

PRELIMINARY / FINAL LAND DEVELOPMENT PLAN PROPOSED AUXILIARY GYMS

FOR

TRINITY HIGH SCHOOL

3601 SIMPSON FERRY ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA



SITE DESIGN CONCEPTS, INC. HAS MET THE OBLIGATIONS OF PA ACT 121 OF THE PENNSYLVANIA GENERAL ASSEMBLY IN PREPARING THIS PLAN. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED UPON SURFACE EVIDENCE AND EXISTING DRAWINGS AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHOULD CONTACT THE PA ONE CALL SYSTEM (1-800-242-1776) PRIOR TO ANY EXCAVATION AS REQUIRED BY THE PA ACT 121, AS PER THE LATEST AMENDMENT OF PA ACT 287 OF 1974, EFFECTIVE OCTOBER 09, 2008.

DESIGN SERIAL NUMBER 20230552290 (LOWER ALLEN TOWNSHIP)

PENNSYLVANIA AMERICAN WATER
852 WESLEY DRIVE
MECHANICSBURG, PA 17055
CONTACT: JEFF HORTON
EMAIL: JEFF.HORTON@AMWATER.COM

VERIZON PENNSYLVANIA LLC
1025 HAY STREET
PITTSBURGH, PA 15221
CONTACT: DEBORAH BARUM
EMAIL: DEBORAH.D.DELIA@VERIZON.COM

LOWER ALLEN TWP AUTHORITY
120 LIMELIN ROAD
HARRISBURG, PA 17109
CONTACT: BRIAN KAUFFMAN
EMAIL: BKAUFFMAN@LATWP.ORG

LOWER ALLEN TOWNSHIP
2233 GETTYSBURG ROAD
CAMP HILL, PA 17011
CONTACT: BRYCE THOMPSON
EMAIL: BTHOMPSON@LATWP.ORG

METROPOLITAN EDISON CO/FIRSTENERGY
21 SOUTH MAIN STREET
AKRON, OH 44308
CONTACT: TICKET SCREENING PERSONNEL
EMAIL: TICKET_SCREENING@FIRSTENERGYCORP.COM

PPL ELECTRIC UTILITIES CORPORATION
437 BLUE CHURCH ROAD
PAXNOS, PA 17860
CONTACT: DOUG HAUP
EMAIL: DHAUPT@PPLWEB.COM

COMCAST
4601 SMITH STREET
HARRISBURG, PA 17109
CONTACT: MICHAEL SWEIGARD
EMAIL: MIKE.SWEIGARD@CABLE.COMCAST.NET

UOI UTILITIES INC
1301 AIP DRIVE
MIDDLETOWN, PA 17057
CONTACT: STEPHEN BATEMAN
EMAIL: SBATEMAN@UOI.COM

UNIFORM PARCEL IDENTIFIER		
LOT NO.	STREET ADDRESS	UPI
1	3601 SIMPSON FERRY ROAD	13-23-0553-013EX

WAIVER REQUESTS

THE FOLLOWING WAIVER(S) FROM THE LOWER ALLEN TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE, HAVE BEEN REQUESTED AND APPROVED BY THE LOWER ALLEN TOWNSHIP BOARD OF COMMISSIONERS AT A MEETING HELD ON:

- A. SECTION: 184-19.A.2: WHICH REQUIRES BERM ELEVATIONS FOR DETENTION FACILITIES TO BE SET TO PROVIDE 1 FOOT OF FREEBOARD.

DUE TO THE SIZE OF THE STORMWATER MANAGEMENT STRUCTURE, RELATIVELY SMALL DRAINAGE AREA, AND DESIRE TO LIMIT INTRUSION INTO REMAINING OPEN SPACE, THE BASIN EMBANKMENT HAS BEEN DESIGNED TO PROVIDE 6" OF FREEBOARD DURING THE 100-YR STORM EVENT.

- B. SECTION: 192-30.A.1: WHICH REQUIRES THE SUBMISSION OF A PRELIMINARY PLAN MODIFICATION IS REQUESTED TO SUBMIT A COMBINED PRELIMINARY/FINAL LAND DEVELOPMENT PLAN SHOWING REQUIREMENTS OF BOTH A PRELIMINARY AND FINAL PLAN IN ONE SET.

- C. SECTION: 192-57.B.2.H.2: WHICH REQUIRES ADDITIONAL RIGHT-OF-WAY AND CARTWAY WIDENING.

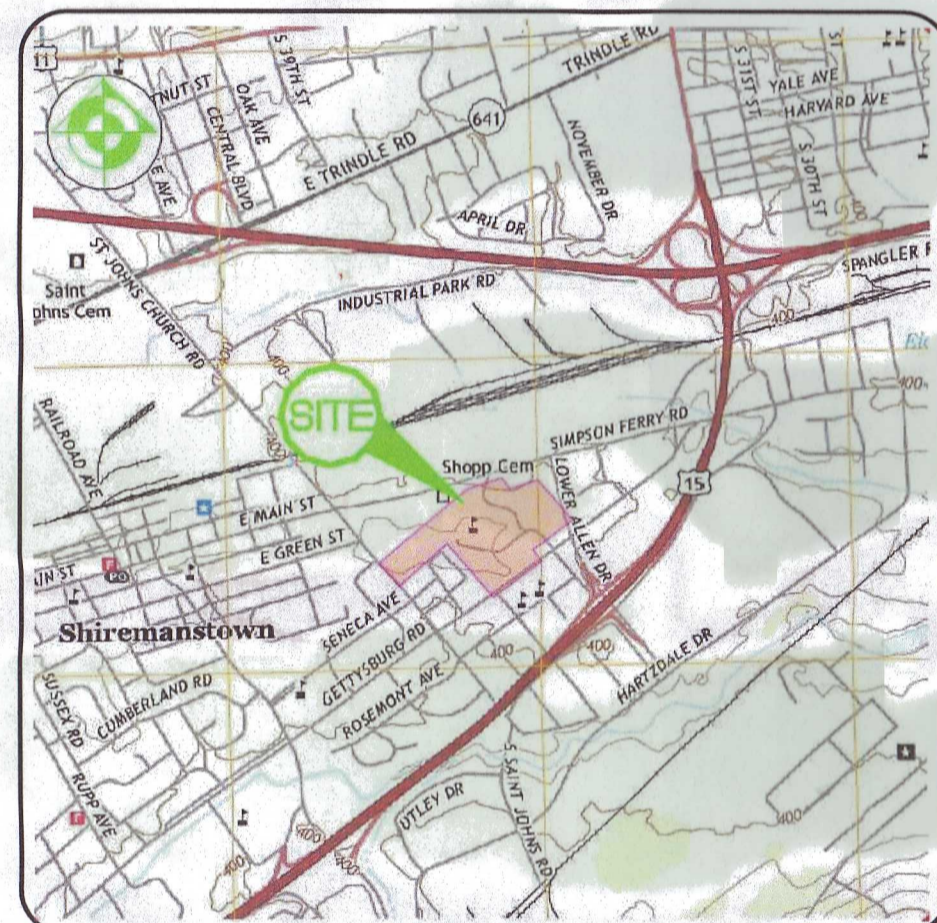
THE PROJECT PROPOSES ACCESSORY BUILDINGS TO SERVE THE EXISTING STUDENTS. NO EVENTS OR ADDITIONAL STUDENT SERVICES ARE ANTICIPATED THAT WOULD INCREASE TRAFFIC VOLUMES TO WARRANT CARTWAY WIDENING OR ADDITIONAL RIGHT-OF-WAY.

- D. SECTION 192 - 57.C.9: WHICH REQUIRES SIDEWALKS BE INSTALLED ALONG ALL STREET FRONTAGES.

MODIFICATION REQUESTED TO CONSTRUCT SIDEWALK ALONG THE FRONTAGE OF LOWER ALLEN DRIVE ONLY.

- E. SECTION 184 - 14: WHICH REQUIRES PROJECTS PROPOSING NEW IMPERVIOUS AREA TO INFILTRATE THE INCREASED RUNOFF VOLUME ON THE SITE.

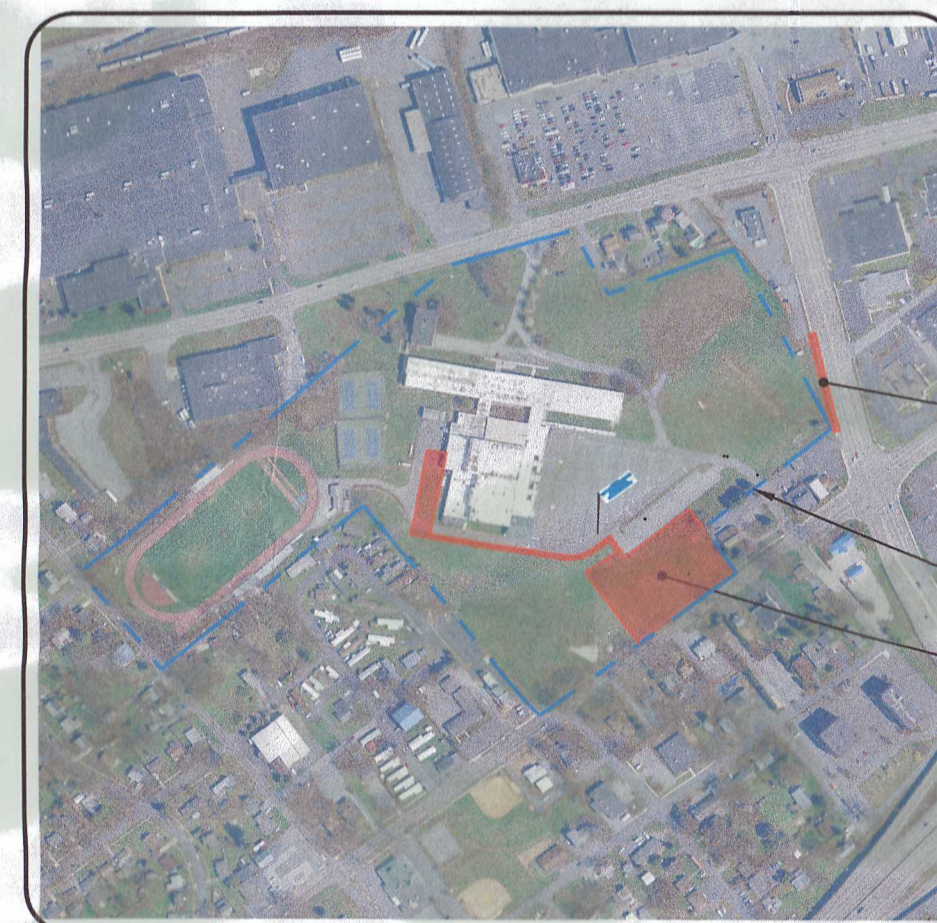
SOIL INFILTRATION TESTING PERFORMED BY A PROFESSIONAL GEOTECHNICAL ENGINEER DETERMINED THE INFILTRATION RATE OF THE IN SITU SOILS TO BE EXTREMELY LOW (0 INCHES PER HOUR). THEREFORE, THE PROJECT PROPOSES TO USE THE PA DEP APPROVED MANAGED RELEASE CONCEPT (MRC) TO MIMIC SOIL INFILTRATION / FILTRATION BY RELEASING THE STORED RUNOFF SLOWLY THROUGH AN UNDERDRAIN.



LOCATION MAP

SCALE: 1" = 2,000'

COPYRIGHT BY: ADC THE MAP PEOPLE (PERMITTED USE NUMBER BJE080722)



CAMPUS MAP

SCALE: 1" = 500'

PROJECT AREA
(REFER TO DWG. SHT. C-5)

PROPERTY LINE
(APPROX.)

PROJECT AREA

RECORDER OF DEEDS CERTIFICATE

RECORDED IN THE CUMBERLAND COUNTY COURTHOUSE
RECORDED THIS 11th DAY OF August, 2023
INSTRUMENT NO. 20230552290

STORMWATER BMP MODIFICATION NOTE

WE, THE ROMAN CATHOLIC DIOCESE OF HARRISBURG (TRINITY HIGH SCHOOL) ARE AWARE OF, WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE STORMWATER BMPs AND ACCEPT THAT STORMWATER BMPs ARE PERMANENT FIXTURES THAT CANNOT BE ALTERED OR REMOVED ONLY AFTER APPROVAL OF A REVISED PLAN BY THE TOWNSHIP.

Timothy C. Senior 8-14-23
OFFICER DATE

CERTIFICATE OF OWNERSHIP, ACKNOWLEDGMENT OF PLAN AND OFFER OF DEDICATION

(OWNER - UPI-13-23-0553-013EX)
FORM OF AFFIDAVIT

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF Dauphin

ON THIS, 14th DAY OF August, 2023, BEFORE ME,
Timothy C. Senior, THE UNDERSIGNED NOTARY PUBLIC, PERSONALLY
APPEARED Timothy C. Senior, BEING Owner OF
Dioecesis of Harrisburg TO ME KNOWN OR PROVEN, BEING DULY
SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT THE ENTITY IS THE
owner OF THE PROPERTY SHOWN ON THIS PLAN, THAT THE PLAN
THEREOF WAS MADE AT HIS/HER DIRECTION, THAT HE/SHE ACKNOWLEDGES THE SAME TO BE
THE ENTITY'S ACT AND PLAN, THAT THE ENTITY DESIRES THE SAME TO BE RECORDED AND
THAT ALL STREETS AND OTHER PROPERTY IDENTIFIED AS PROPOSED PUBLIC PROPERTY
(EXCEPTING THOSE AREAS LABELED "NOT FOR DEDICATION") ARE HEREBY DEDICATED TO THE
PUBLIC USE.

THE ROMAN CATHOLIC DIOCESE OF
HARRISBURG (TRINITY HIGH SCHOOL)
3601 SIMPSON FERRY ROAD
CAMP HILL, PA 17011

Timothy C. Senior
OFFICER SIGNATURE

Timothy C. Senior
OFFICER PRINTED NAME

Bishop
TITLE

April Reijes
NOTARY PUBLIC

Commonwealth of Pennsylvania - Notary Seal
APRIL REJES - Notary Public
Dauphin County
My Commission Expires July 10, 2025
Commission Number 1250400

NOTARY STAMP SEAL

FINAL LAND DEVELOPMENT PLAN SHEET INDEX	
Sheet Number	Sheet Title
C-1	TITLE SHEET
C-2	PLAN LEGEND AND NOTES
C-3	OVERALL EXISTING SITE CONDITIONS PLAN
C-4	EXISTING SITE CONDITIONS AND DEMOLITION PLAN
C-5	SITE LAYOUT PLAN
C-6	SITE GRADING AND UTILITY PLAN
C-7	SITE LIGHTING PLAN
C-8	SITE PROFILES
C-9	SITE DETAILS AND NOTES
C-10	POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS AND NOTES

- NOTES:
- SITE CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES LOCATIONS, DEPTHS AND CROSSINGS WITH PROPOSED UTILITIES AND OTHER SITE IMPROVEMENTS PRIOR TO INSTALLATION. THE SITE ENGINEER SHALL BE NOTIFIED IMMEDIATELY UPON ANY CONFLICTS.
 - LIMITS OF EARTH DISTURBANCE SHALL BE KEPT LESS THAN 0.991 ACRE (43,168 S.F.). IF GREATER THAN 0.991 ACRE IS DISTURBED, THE CONTRACTOR SHALL VOLUNTARILY STOP WORK AND APPLY TO THE CUMBERLAND COUNTY CONSERVATION DISTRICT FOR A NPDES PERMIT.

CUMBERLAND COUNTY PLANNING DEPARTMENT

REVIEWED THIS 28th DAY OF March, 2023 BY THE CUMBERLAND COUNTY
PLANNING DEPARTMENT.

Kirk Stoner
DIRECTOR OF PLANNING

LOWER ALLEN TOWNSHIP PLANNING COMMISSION REVIEW

AT A MEETING ON 20 DAY OF March, 2023, THE LOWER ALLEN TOWNSHIP
PLANNING COMMISSION RECOMMENDED APPROVAL OF THIS PLAN.

LOWER ALLEN TOWNSHIP ENGINEER REVIEW

ON THIS DATE 2023, HAS REVIEWED THE SWM
SITE PLAN AND FINDS IT TO BE CONSISTENT WITH THE DESIGN STANDARDS AND CRITERIA OF
THE LOWER ALLEN TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.

LOWER ALLEN TOWNSHIP BOARD OF COMMISSIONERS

APPROVED BY THE BOARD OF COMMISSIONERS, LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA.
APPROVED THIS 28th DAY OF March, 2023
CONDITIONS OF APPROVAL COMPLETED THIS 28th DAY OF August, 2023

John W. Valone
PRESIDENT

SECRETARY

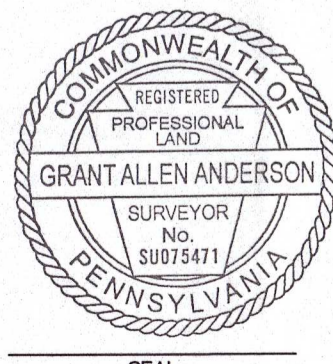
DRAINAGE PLAN CERTIFICATION

ON THIS DATE August 4, 2023, I, Grant Allen Anderson, HAS REVIEWED AND
HEREBY CERTIFY THAT THE DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF
THE LOWER ALLEN TOWNSHIP ACT 167 STORMWATER MANAGEMENT ORDINANCE.

LAND SURVEYOR

I HEREBY STATE THAT, TO THE BEST OF MY KNOWLEDGE, THE
SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE
AND CORRECT TO THE ACCURACY REQUIRED BY THE LOWER
ALLEN TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT
ORDINANCE. COPYRIGHT BY AND FOR:

Grant Allen Anderson
GRANT ALLEN ANDERSON, P.L.S.
REGISTRATION NO. SU 075471
(AGENT FOR SITE DESIGN CONCEPTS, INC.)
August 4, 2023
DATE



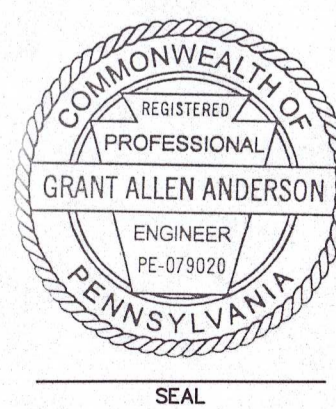
CARBONATE GEOLOGY CERTIFICATION

I, Grant Allen Anderson, CERTIFY, TO THE BEST OF MY KNOWLEDGE BASED
UPON REVIEW OF THE USDA SOIL SURVEY, THAT THE PROPOSED STORMWATER MANAGEMENT
FACILITY IS UNDERLAIN BY CARBONATE GEOLOGY.

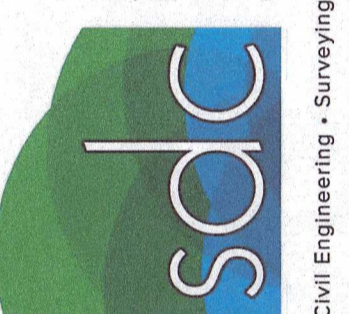
PROJECT ENGINEER

I HEREBY STATE THAT, TO THE BEST OF MY KNOWLEDGE, THE
PROPOSED PRELIMINARY/FINAL LAND DEVELOPMENT PLAN
SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE
ACCURACY REQUIRED BY THE LOWER ALLEN TOWNSHIP
SUBDIVISION AND LAND DEVELOPMENT ORDINANCE. COPYRIGHT
BY AND FOR:

Grant Allen Anderson
GRANT ALLEN ANDERSON, P.E.
REGISTRATION NO. PE 079020
(AGENT FOR SITE DESIGN CONCEPTS, INC.)
August 4, 2023
DATE



site design concepts
LAND DEVELOPMENT CONSULTANTS
127 WEST MARKET STREET, SUITE 200 • YORK, PA 17401
t: 717.757.9414 • f: 717.840.8205 • WWW.SITEDC.COM



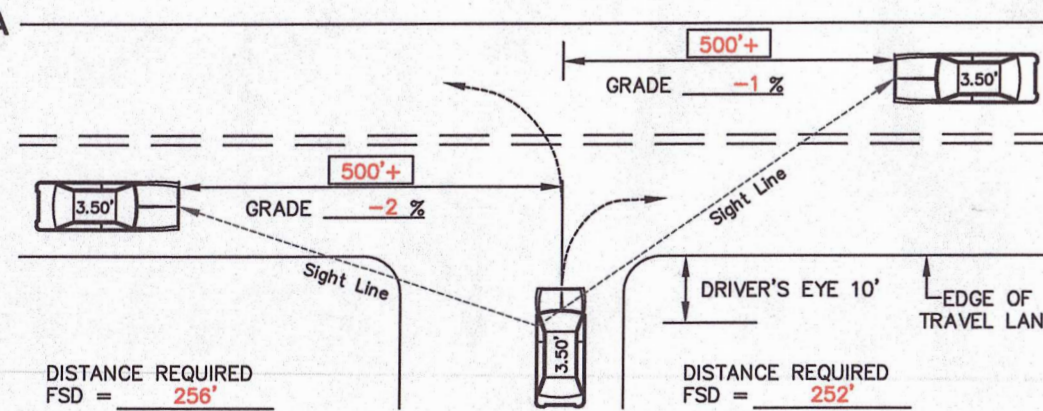
Civil Engineering • Surveying • Landscape Architecture • Land Planning • Environmental Consulting

TITLE SHEET
PROPOSED AUXILIARY GYMS
FOR
TRINITY HIGH SCHOOL
3601 SIMPSON FERRY ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

SCALE AS NOTED
DRAWN BY RMH
CHECKED BY GAA
CONTACT GAA
DATE 03.20.23
FILE NAME 12414 LD-1
JOB NO. 1241.4
SHEET NO. C-1
REV. 4

P:\000\12414\12414_LD-1.dwg 06/20/23 1:42:42 AM

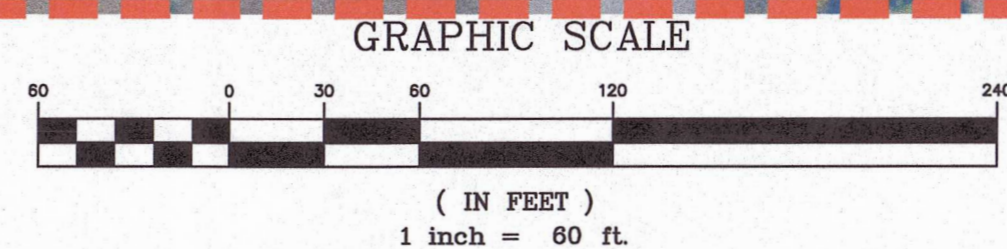
APPLICANT TRINITY HIGH SCHOOL APPLICATION NO. _____
STREET SIMPSON FERRY ROAD LEGAL SPEED LIMIT 35 MPH
MEASURED BY MSD DATE 06.12.23
FOR DEPARTMENT USE ONLY: Safe-Running Speed _____ 85th Percentile Speed _____



THE MAXIMUM LENGTH OF ROADWAY ALONG WHICH A DRIVER AT AN DRIVEWAY LOCATION CAN CONTINUOUSLY SEE ANOTHER VEHICLE APPROACHING ON THE ROADWAY.

DRIVEWAY SIGHT DISTANCE MEASUREMENTS

(ACCESS DRIVE)
NO SCALE



NOTES:
1. BOUNDARY SHOWN BASED UPON DEED PLOTTING. A FULL BOUNDARY SURVEY WAS NOT COMPLETED.

OVERALL EXISTING SITE CONDITIONS PLAN

PROJECT:
PROPOSED AUXILIARY GYMS
FOR
TRINITY HIGH SCHOOL
3601 SIMPSON FERRY ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

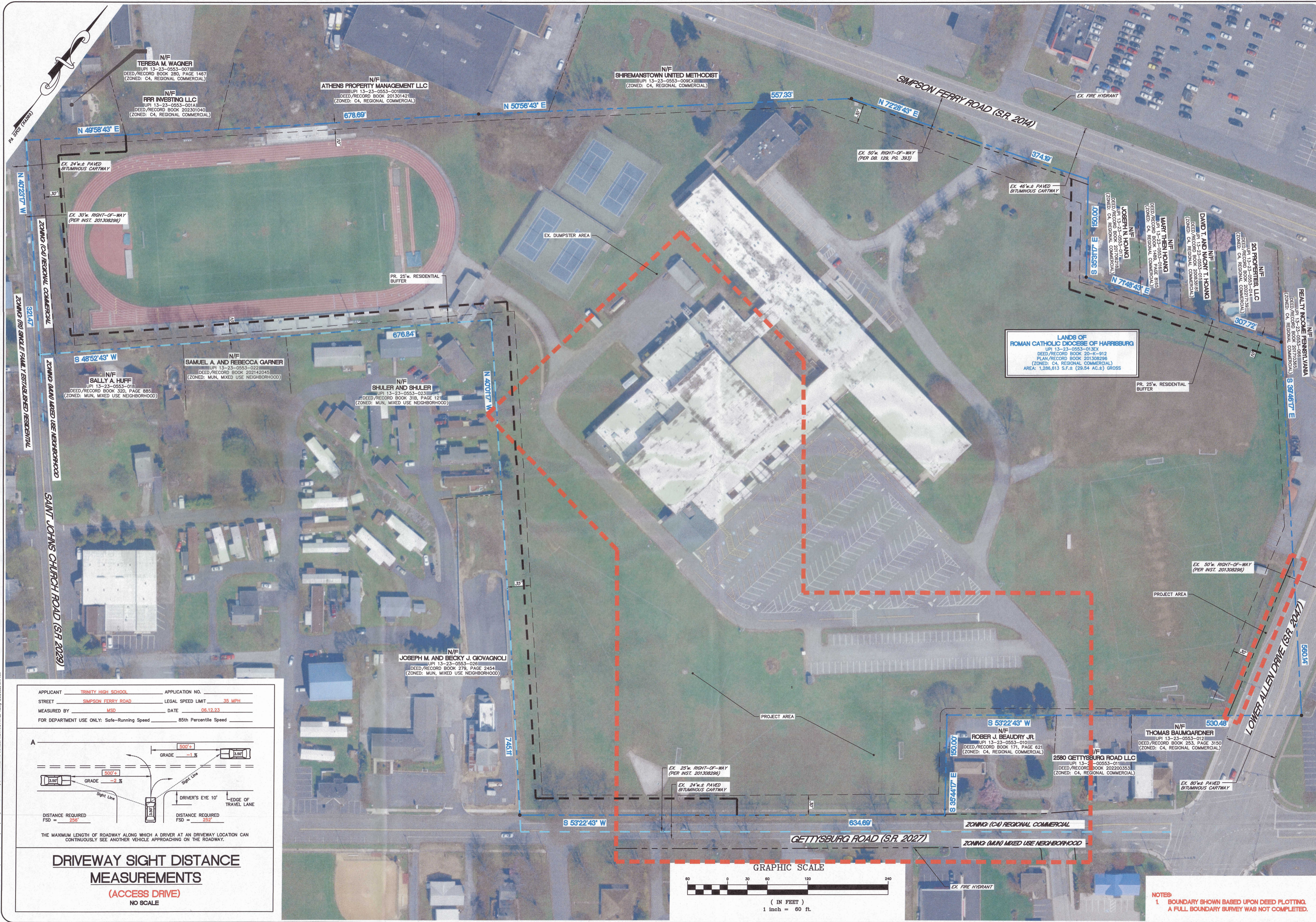
SCALE	AS NOTED
DRAWN BY	RMH
CHECKED BY	GAA
CONTACT	GAA
DATE	03.20.23
FILE NAME	12414 LD-1
JOB NO.	12414
SHEET NO.	C-3
REV.	4

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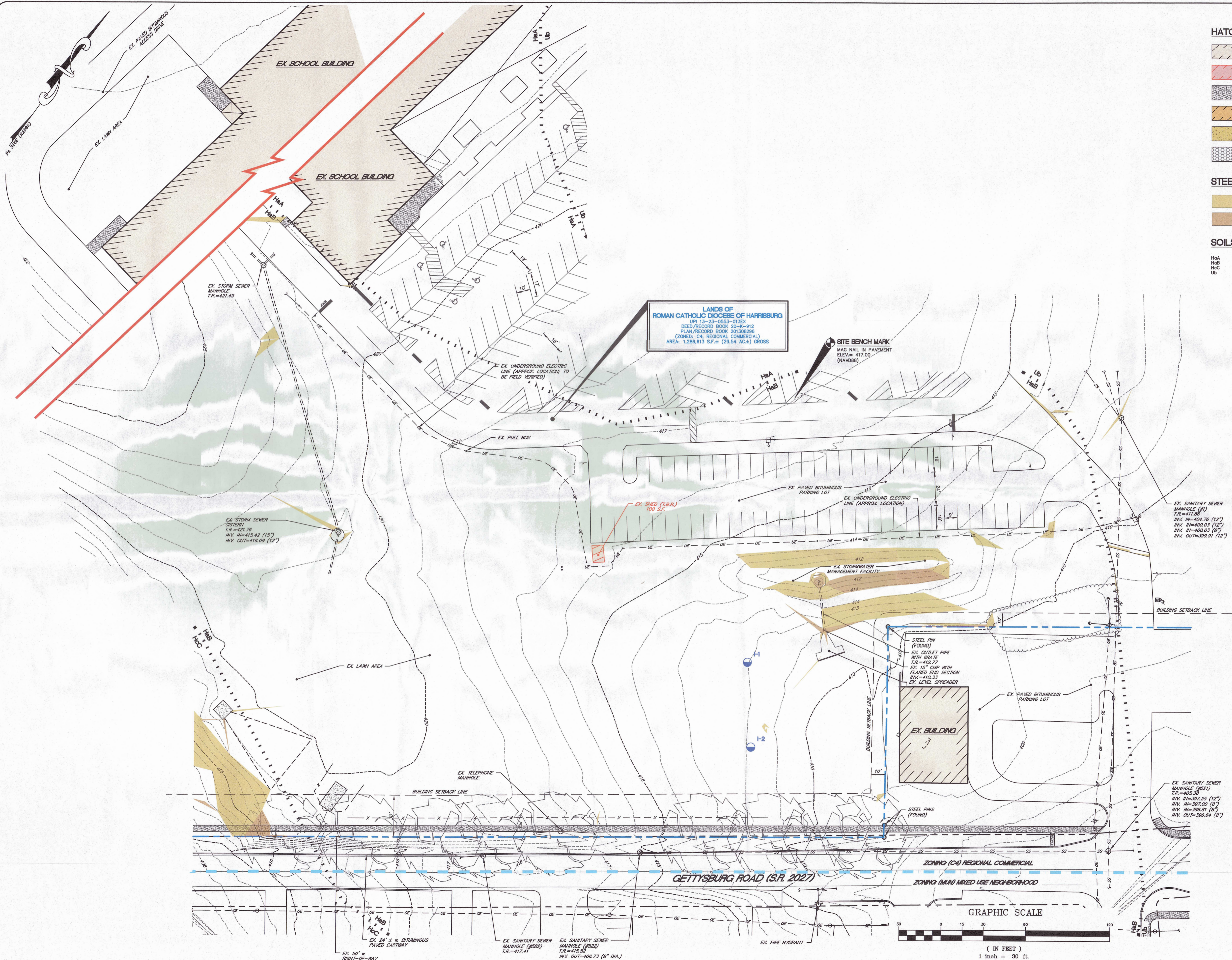
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NO.	DATE	REVISIONS	COMMENTS
1	04.28.23	REVISED PER TOWNSHIP ENGINEER AND CCPC COMMENTS	
2	05.12.23	REVISED PER TOWNSHIP ENGINEER	
3	06.12.23	REVISED PER TOWNSHIP ENGINEER COMMENT	
4	06.21.23	ADDED STORMWATER VOLUME CONTROL WAIVER REQUEST	



PROJECT: 12414 LD-1, 3601 Simpson Ferry Trl, Lower Allen Twp, PA 17004, 03/20/23, 3:47 PM



HATCH LEGEND

	EXISTING BUILDING
	EXISTING BUILDING (T.B.R.)
	EXISTING CONCRETE
	PROPOSED BUILDING
	PROPOSED CONCRETE
	PROPOSED SUBSURFACE INFILTRATION BED

STEEP SLOPES LEGEND

	MODERATELY STEEP SLOPES (15% TO 25%)
	SEVERELY STEEP SLOPES (25% AND GREATER)

SOILS LEGEND

HgA	HAGERSTOWN SILT LOAM, 0 TO 3 PERCENT SLOPES
HgB	HAGERSTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES
HgC	HAGERSTOWN SILT LOAM, ROCKY, 8 TO 15 PERCENT SLOPES
Ub	URBAN LAND

SOIL TEST LEGEND

	PROPOSED INFILTRATION TEST LOCATION
--	-------------------------------------

EXISTING SITE CONDITIONS AND DEMOLITION PLAN

PROJECT: 12414 LD-1
PROPOSED AUXILIARY GYM
FOR
TRINITY HIGH SCHOOL
3601 SIMPSON FERRY ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

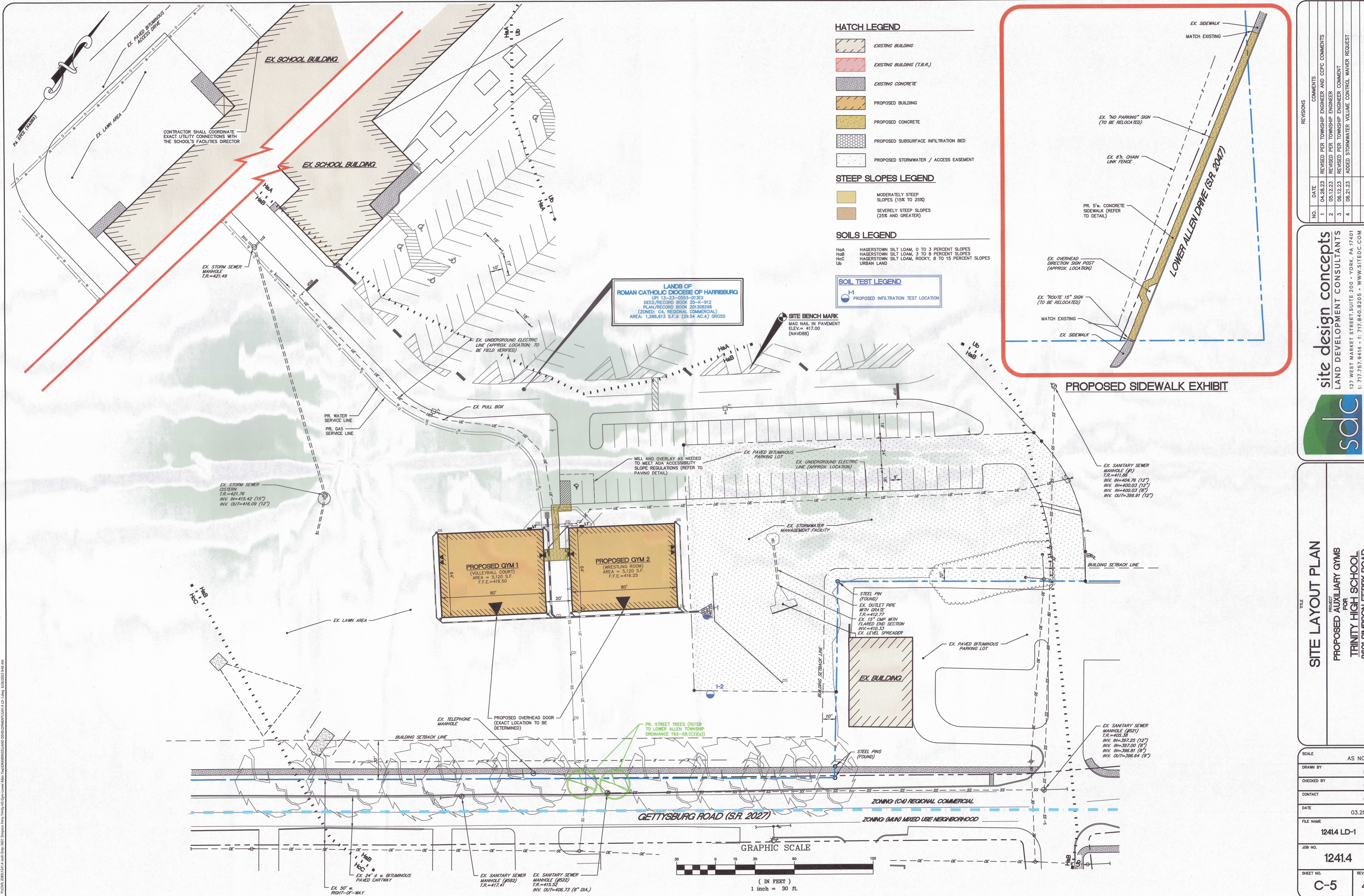
SCALE	AS NOTED
DRAWN BY	RMH
CHECKED BY	GAA
CONTACT	GAA
DATE	03.20.23
FILE NAME	12414 LD-1
JOB NO.	12414
SHEET NO.	C-4
REV.	4

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LAND DEVELOPMENT CONSULTANTS

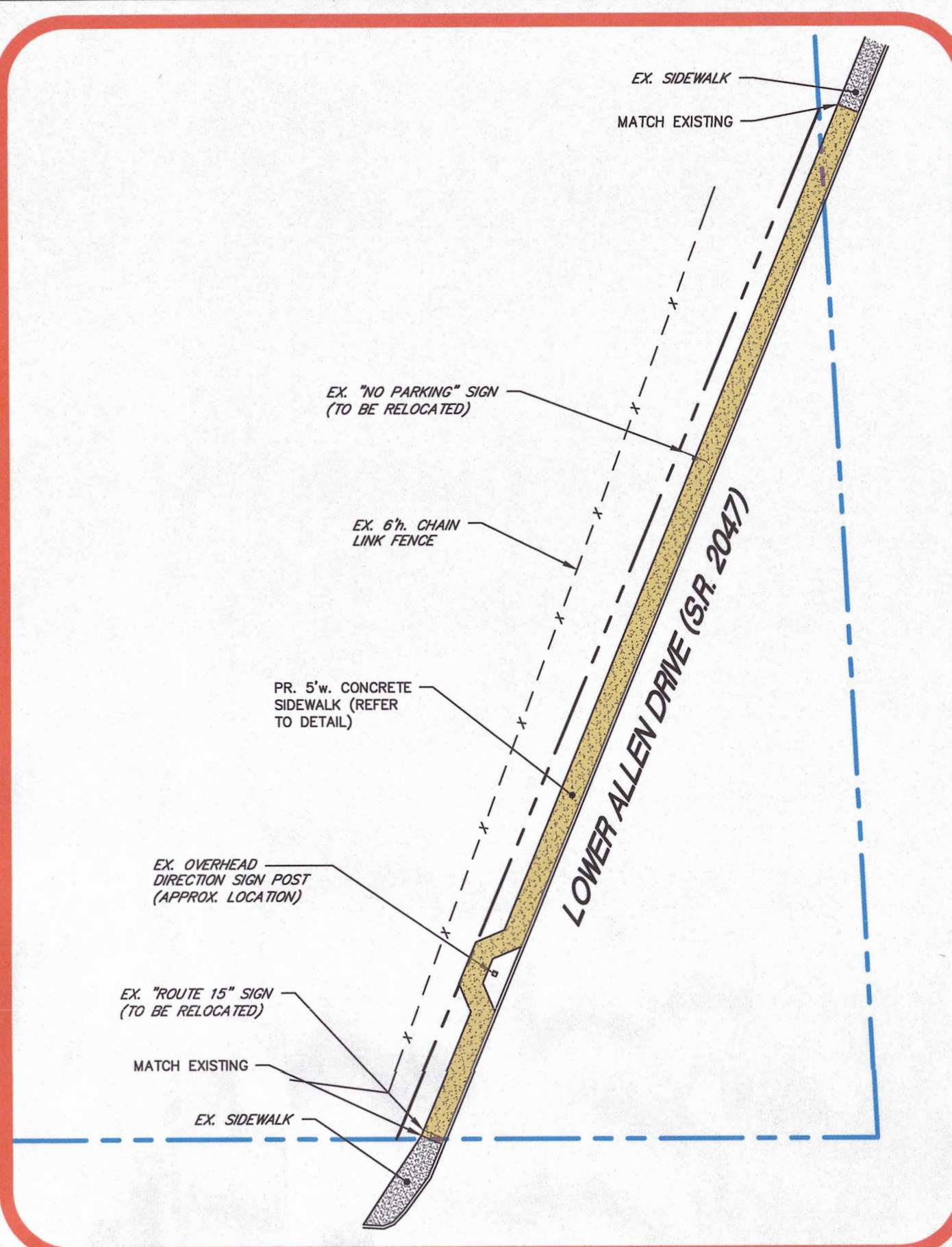
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 - PROPOSED CONCRETE
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 - PROPOSED STORMWATER / ACCESS EASEMENT
- STEEP SLOPES LEGEND**
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 - Ub URBAN LAND
- SOIL TEST LEGEND**
- PROPOSED INFILTRATION TEST LOCATION



PROPOSED SIDEWALK EXHIBIT

LANDS OF
ROMAN CATHOLIC DIOCESE OF HARRISBURG
UPI 13-23-0833-015X
DEED/RECORD BOOK 20-K-912
PLAN/RECORD BOOK 201308296
(ZONED: C4 REGIONAL COMMERCIAL)
AREA: 1,286,813 S.F.± (29.54 AC.±) GROSS

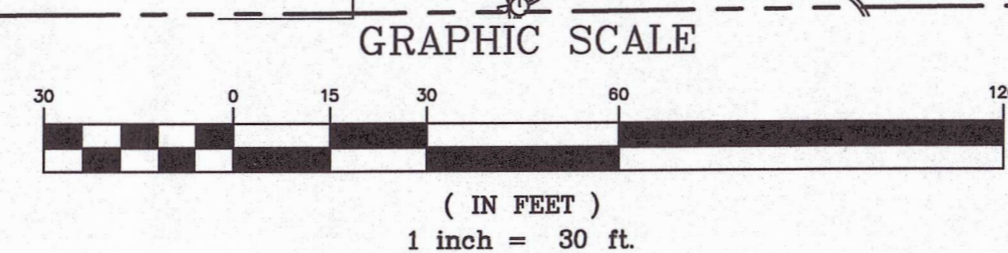
SITE BENCH MARK
MAG NAIL IN PAVEMENT
ELEV. = 417.00
(NAVOD88)

MILL AND OVERLAY AS NEEDED
TO MEET ADA ACCESSIBILITY
SLOPE REGULATIONS (REFER TO
PAVING DETAIL)

STEEL PIN
(FOUND)
EX. OUTLET PIPE
WITH GRATE
T.R. = 412.77
EX. 15" CMP WITH
FLARED END SECTION
INV. = 410.33
EX. LEVEL SPREADER

EX. SANITARY SEWER
MANHOLE (#1)
T.R. = 411.88
INV. IN = 404.76 (12")
INV. IN = 400.03 (12")
INV. IN = 400.03 (8")
INV. OUT = 398.91 (12")

EX. SANITARY SEWER
MANHOLE (#21)
T.R. = 405.38
INV. IN = 397.25 (12")
INV. IN = 397.00 (8")
INV. OUT = 396.64 (8")



GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

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SITE LAYOUT PLAN

PROJECT
PROPOSED AUXILIARY GYM
FOR
TRINITY HIGH SCHOOL
3601 SIMPSON FERRY ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

SCALE AS NOTED

DRAWN BY RMH

CHECKED BY GAA

CONTACT GAA

DATE 03.20.23

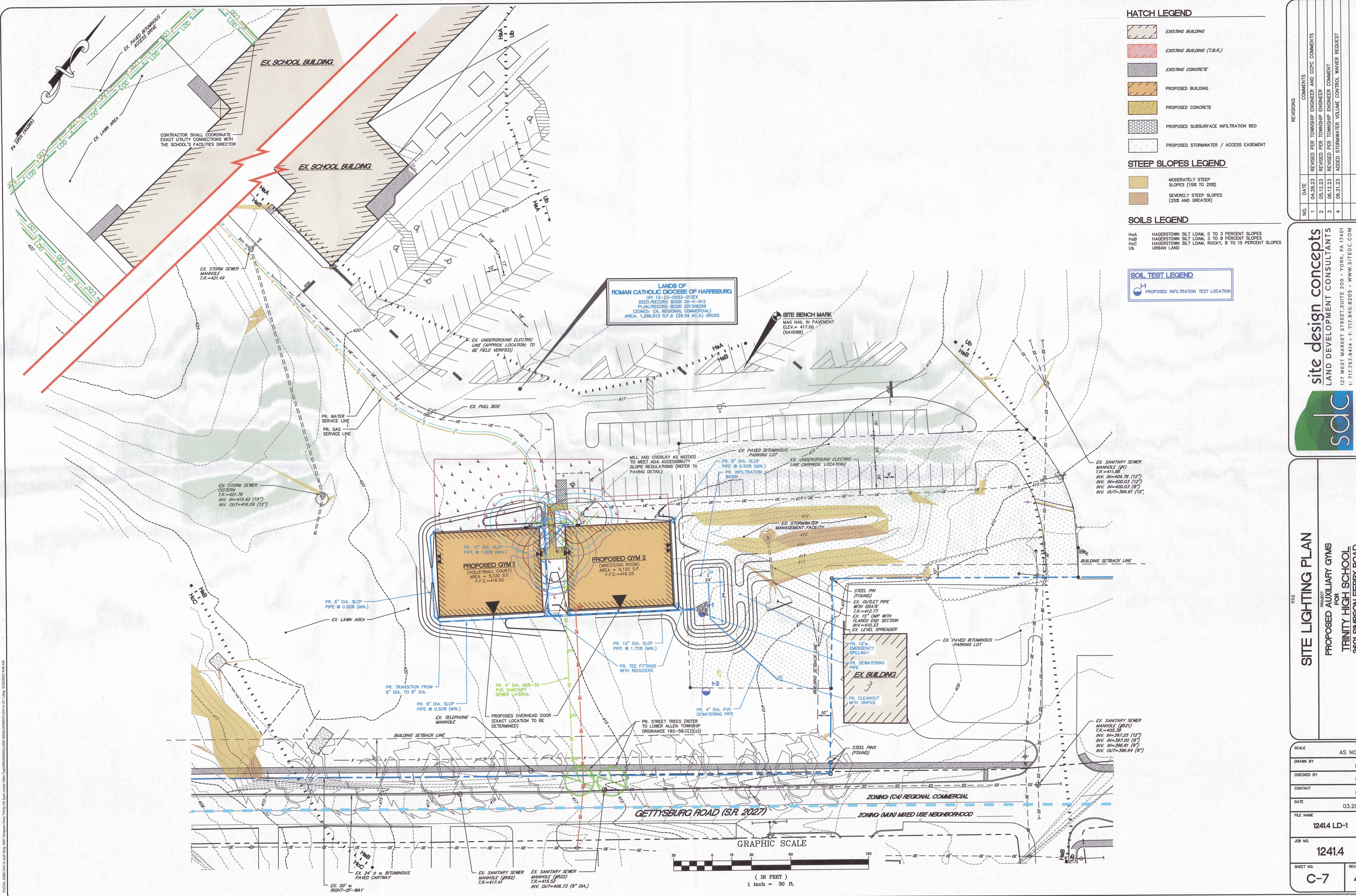
FILE NAME 1241.4 LD-1

JOB NO. 1241.4

SHEET NO. C-5

REV. 4

PROJECT: 1241.4 LD-1, 1241.4 LD-2, 1241.4 LD-3, 1241.4 LD-4, 1241.4 LD-5, 1241.4 LD-6, 1241.4 LD-7, 1241.4 LD-8, 1241.4 LD-9, 1241.4 LD-10, 1241.4 LD-11, 1241.4 LD-12, 1241.4 LD-13, 1241.4 LD-14, 1241.4 LD-15, 1241.4 LD-16, 1241.4 LD-17, 1241.4 LD-18, 1241.4 LD-19, 1241.4 LD-20, 1241.4 LD-21, 1241.4 LD-22, 1241.4 LD-23, 1241.4 LD-24, 1241.4 LD-25, 1241.4 LD-26, 1241.4 LD-27, 1241.4 LD-28, 1241.4 LD-29, 1241.4 LD-30, 1241.4 LD-31, 1241.4 LD-32, 1241.4 LD-33, 1241.4 LD-34, 1241.4 LD-35, 1241.4 LD-36, 1241.4 LD-37, 1241.4 LD-38, 1241.4 LD-39, 1241.4 LD-40, 1241.4 LD-41, 1241.4 LD-42, 1241.4 LD-43, 1241.4 LD-44, 1241.4 LD-45, 1241.4 LD-46, 1241.4 LD-47, 1241.4 LD-48, 1241.4 LD-49, 1241.4 LD-50, 1241.4 LD-51, 1241.4 LD-52, 1241.4 LD-53, 1241.4 LD-54, 1241.4 LD-55, 1241.4 LD-56, 1241.4 LD-57, 1241.4 LD-58, 1241.4 LD-59, 1241.4 LD-60, 1241.4 LD-61, 1241.4 LD-62, 1241.4 LD-63, 1241.4 LD-64, 1241.4 LD-65, 1241.4 LD-66, 1241.4 LD-67, 1241.4 LD-68, 1241.4 LD-69, 1241.4 LD-70, 1241.4 LD-71, 1241.4 LD-72, 1241.4 LD-73, 1241.4 LD-74, 1241.4 LD-75, 1241.4 LD-76, 1241.4 LD-77, 1241.4 LD-78, 1241.4 LD-79, 1241.4 LD-80, 1241.4 LD-81, 1241.4 LD-82, 1241.4 LD-83, 1241.4 LD-84, 1241.4 LD-85, 1241.4 LD-86, 1241.4 LD-87, 1241.4 LD-88, 1241.4 LD-89, 1241.4 LD-90, 1241.4 LD-91, 1241.4 LD-92, 1241.4 LD-93, 1241.4 LD-94, 1241.4 LD-95, 1241.4 LD-96, 1241.4 LD-97, 1241.4 LD-98, 1241.4 LD-99, 1241.4 LD-100



HATCH LEGEND

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- EXISTING BUILDING (T.B.R.)
- EXISTING CONCRETE
- PROPOSED BUILDING
- PROPOSED CONCRETE
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- PROPOSED STORMWATER / ACCESS EASEMENT

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- Ub URBAN LAND

SOIL TEST LEGEND

- PROPOSED INFILTRATION TEST LOCATION

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LAND DEVELOPMENT CONSULTANTS

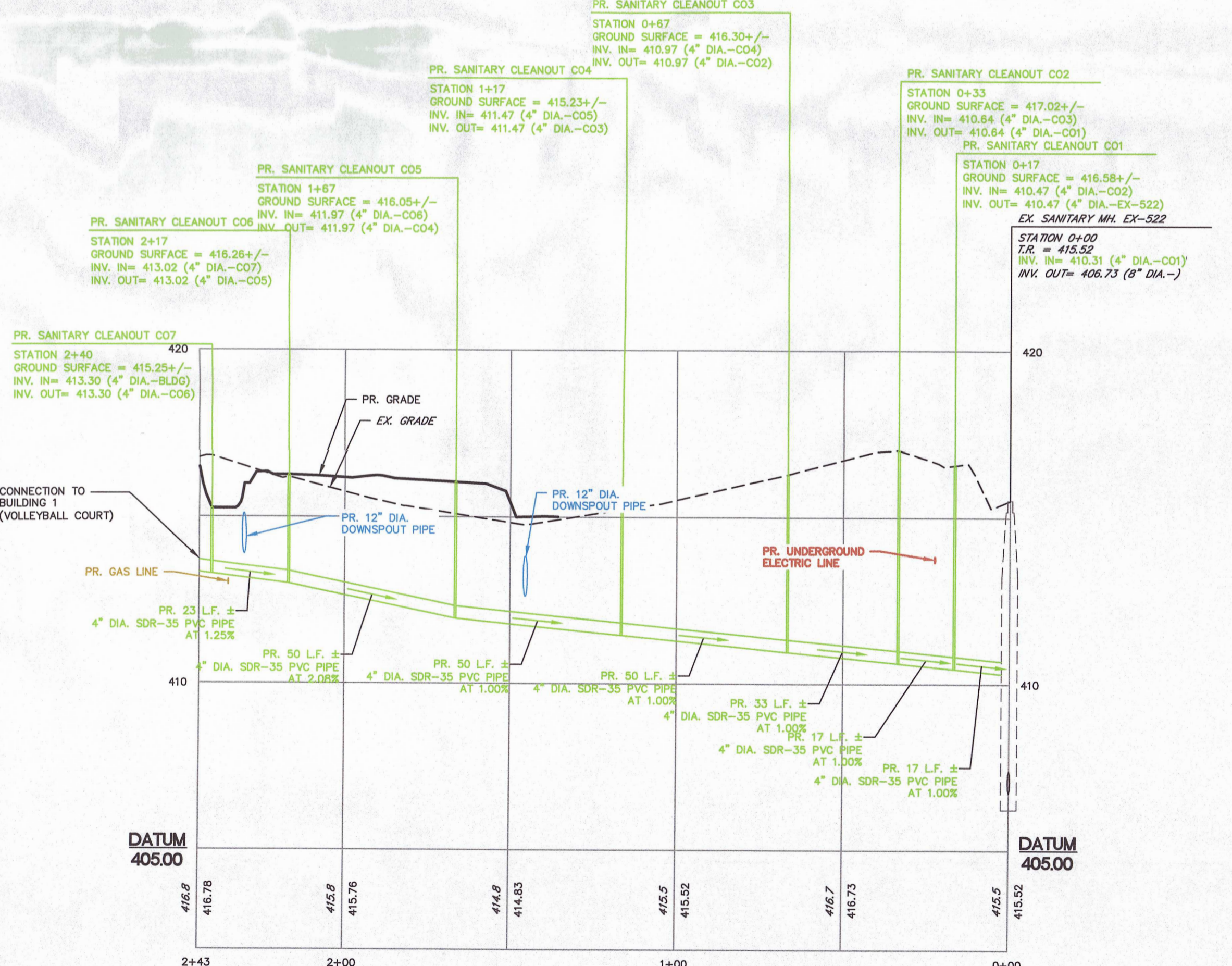
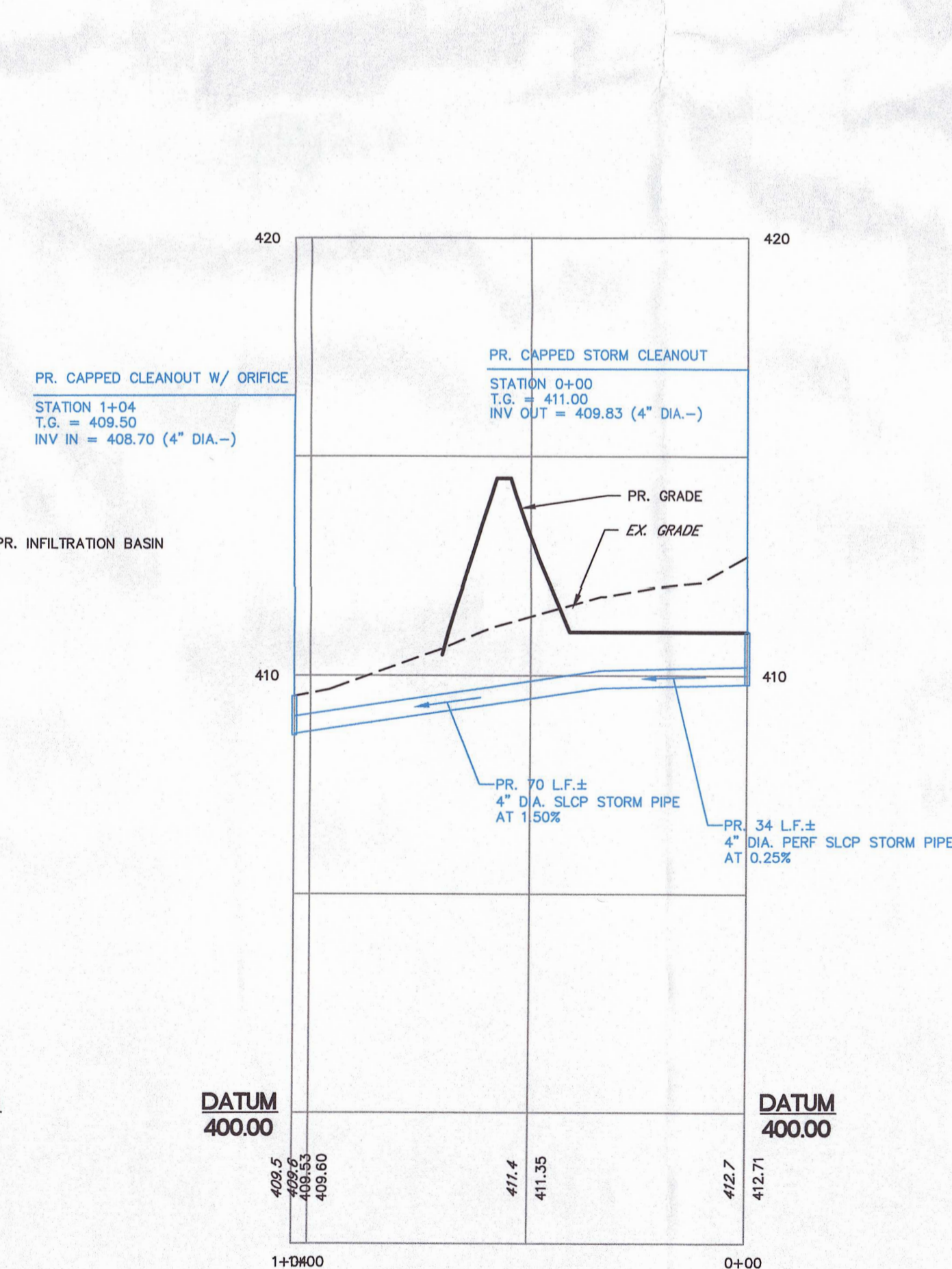
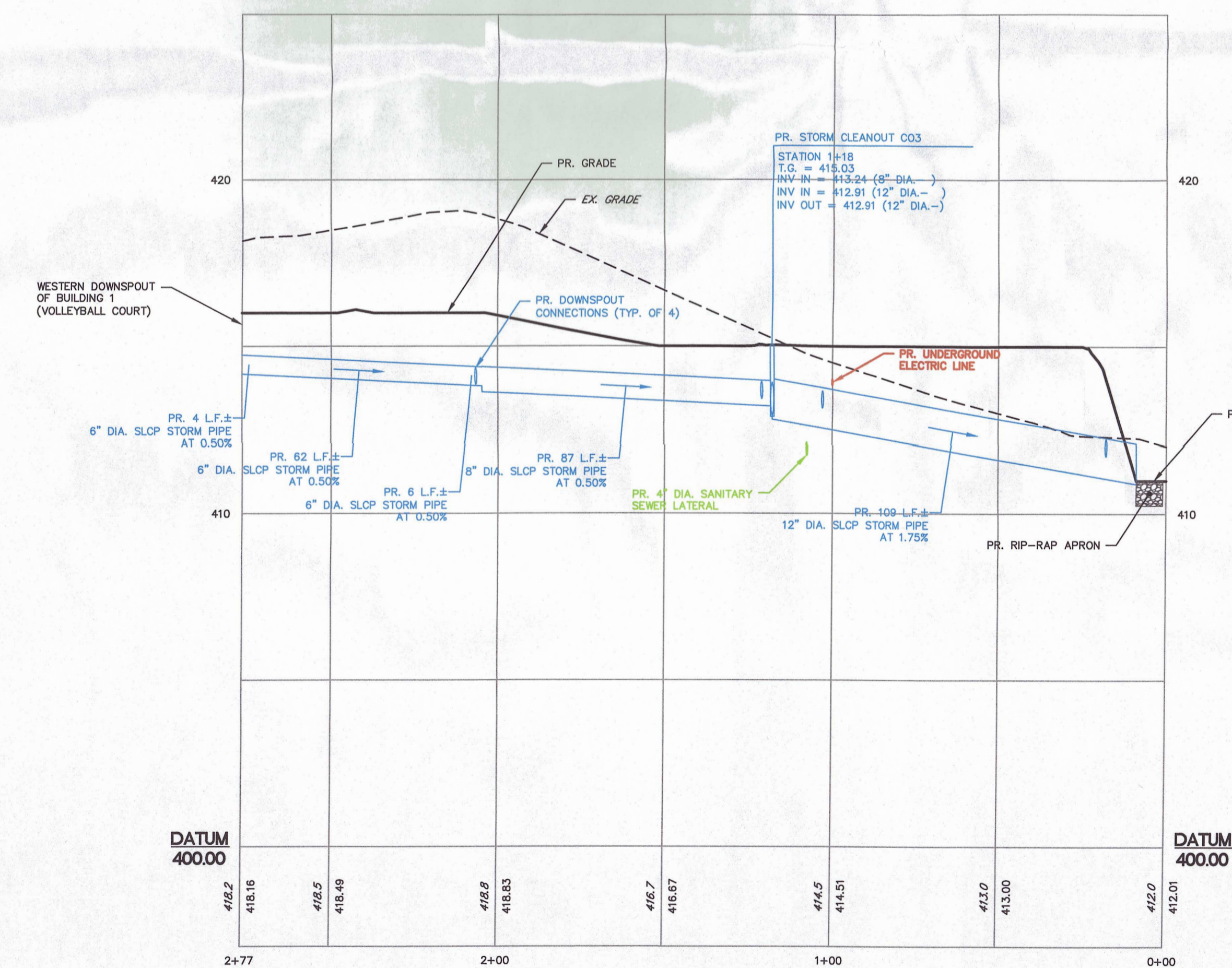
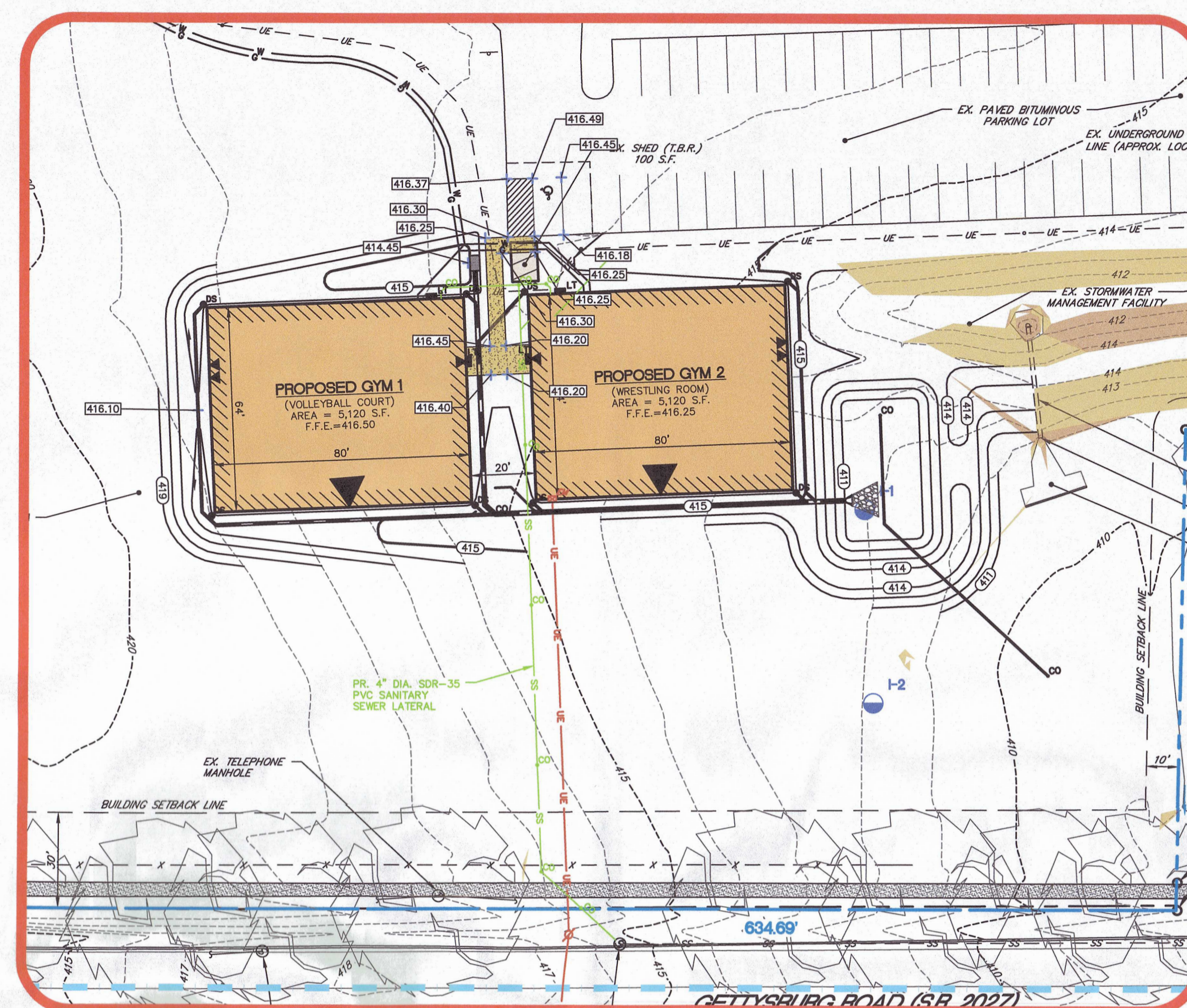
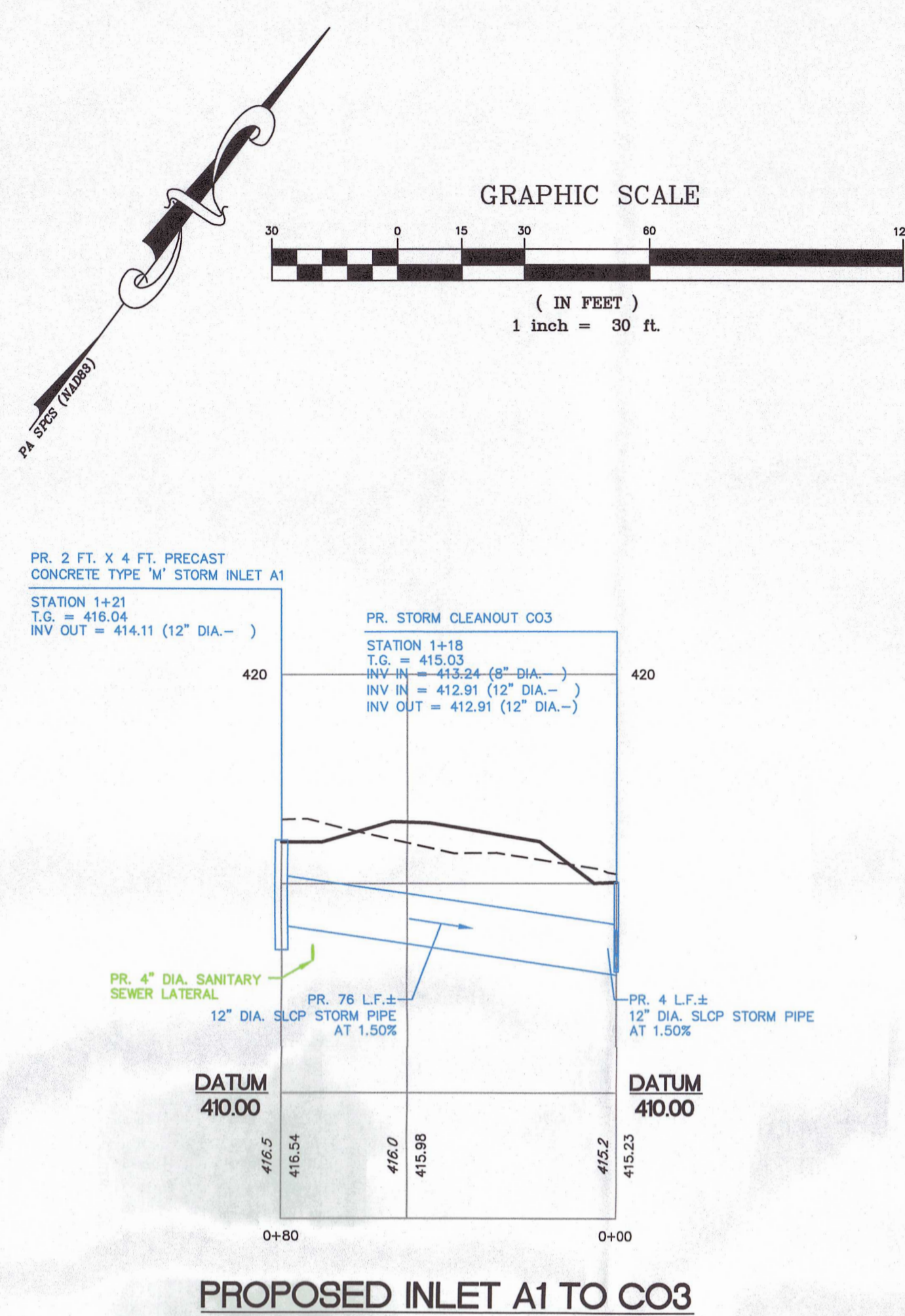
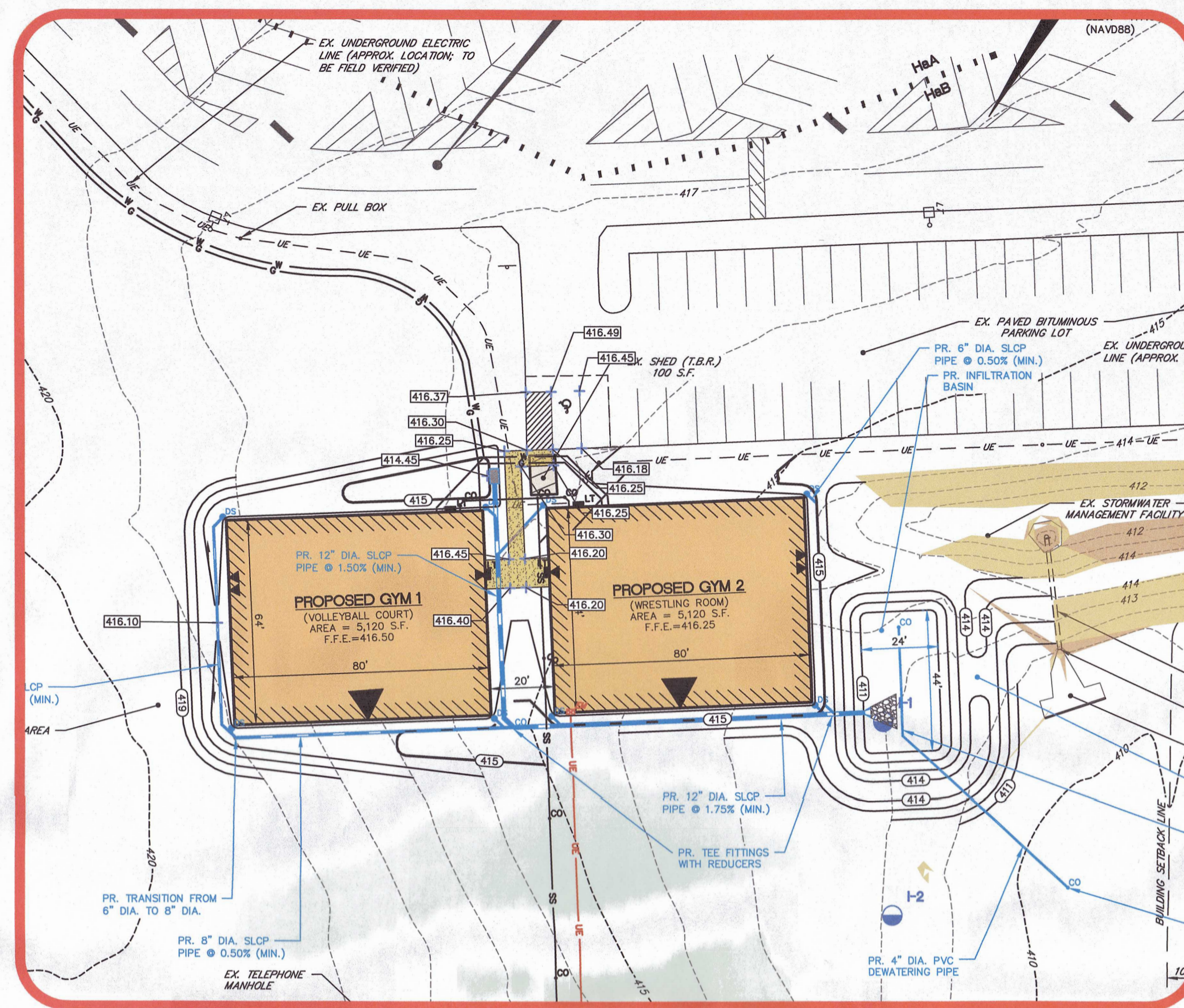
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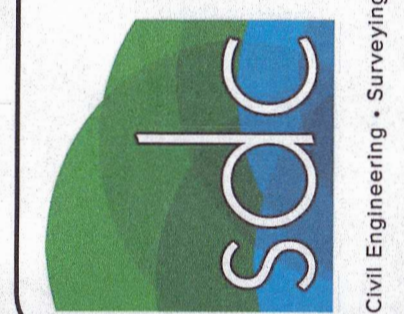
SITE LIGHTING PLAN

PROJECT: PROPOSED AUXILIARY GYMS FOR TRINITY HIGH SCHOOL
3601 SIMPSON FERRY ROAD, LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

SCALE	AS NOTED
DRAWN BY	RMH
CHECKED BY	GAA
CONTACT	GAA
DATE	03.20.23
FILE NAME	12414 LD-1
JOB NO.	12414
SHEET NO.	C-7
REV.	4



REVISIONS		
NO.	DATE	COMMENTS
1	04.28.23	REVISED PER TOWNSHIP ENGINEER AND CCPC COMMENTS
2	05.12.23	REVISED PER TOWNSHIP ENGINEER
3	06.12.23	REVISED PER TOWNSHIP ENGINEER COMMENT
4	06.21.23	ADDED STORMWATER VOLUME CONTROL WAIVER REQUEST



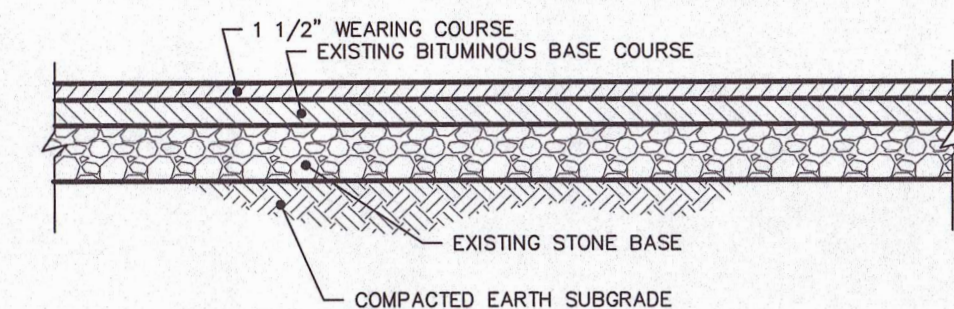
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CHECKED BY		GAA
CONTACT		GAA
DATE		03.20.23
FILE NAME		
12414 LD-1		
JOB NO.		
12414		
SHEET NO.		REV.
C-8		4

REVISIONS		
NO.	DATE	COMMENTS
1	04.28.23	REVISED PER TOWNSHIP ENGINEER AND CDPC COMMENTS
2	05.12.23	REVISED PER TOWNSHIP ENGINEER
3	06.12.23	REVISED PER TOWNSHIP ENGINEER COMMENT
4	08.21.23	ADDED STORMWATER VOLUME CONTROL, WAIVER REQUEST

sdc **site design concepts**
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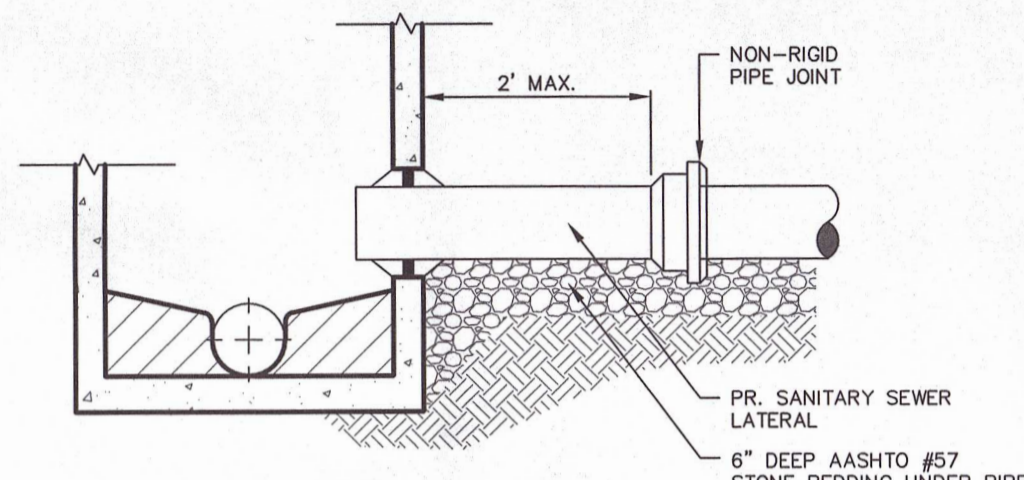
SITE DETAILS AND NOTES	
TITLE	
PROJECT	PROPOSED AUXILIARY GYMS
FOR	FOR
	<u>TRINITY HIGH SCHOOL</u>
	3601 SIMPSON FERRY ROAD
	LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

SCALE		AS NOTED	
DRAWN BY		RMH	
CHECKED BY		GAA	
CONTACT		GAA	
DATE		03.20.23	
FILE NAME 1241.4 LD-1			
JOB NO. 1241.4			
SHEET NO. C-9		REV. 4	



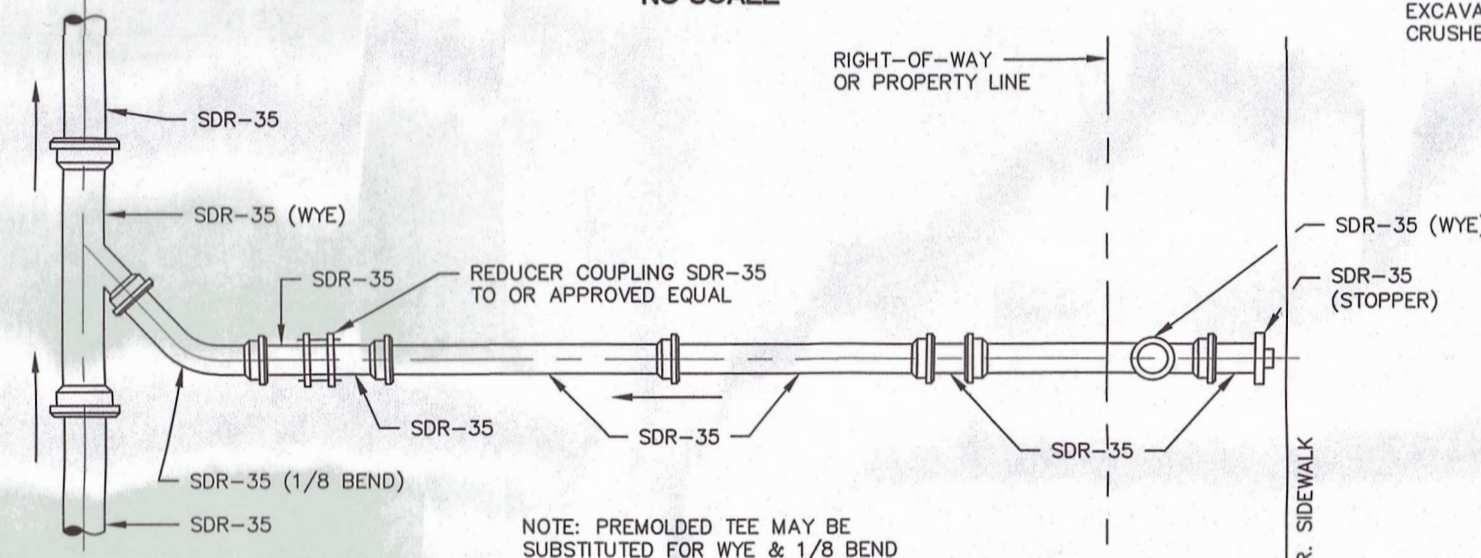
NOTE:
1. IF SATURATED SUBGRADE CONDITIONS ARE ENCOUNTERED, CONTRACTOR SHOULD NOTIFY ENGINEER IMMEDIATELY.

BITUMINOUS PAVING SECTION
FOR ADA SPACE
NO SCALE



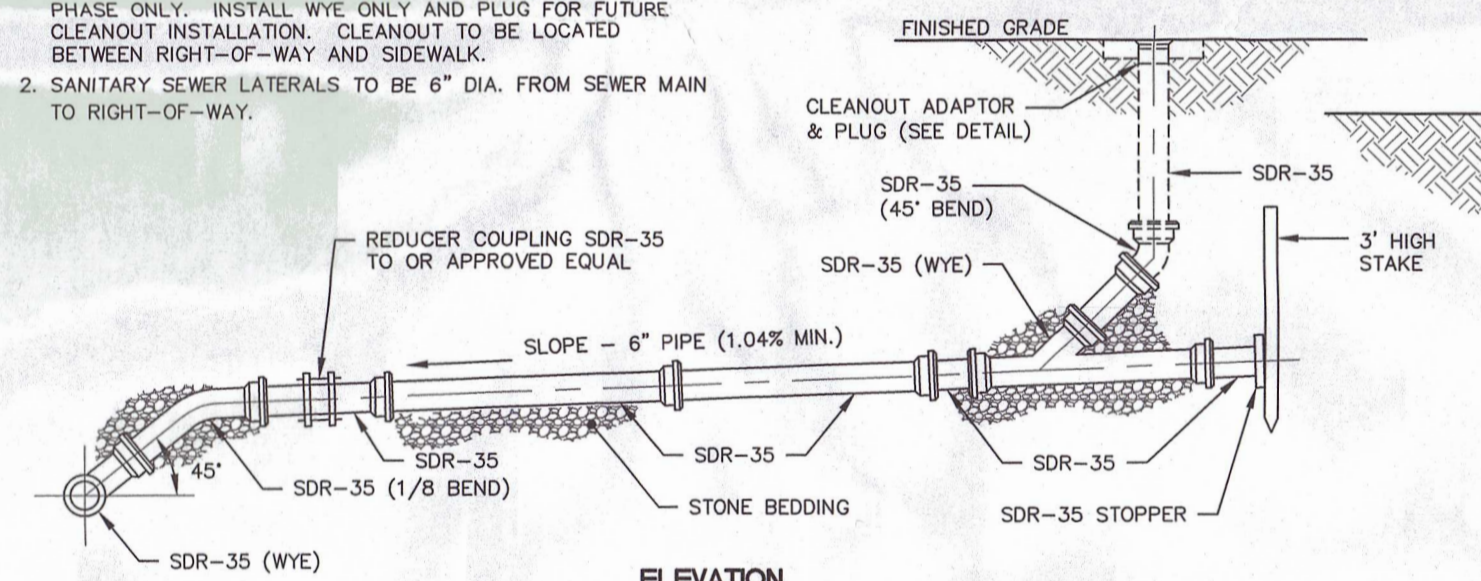
- NOTES:
1. CUT HOLE IN EXISTING MANHOLE WITH CORING MACHINE.
 2. INSTALL RESILIENT GASKET TYPE SEAL PER ASTM C-923.
 3. CAULK ANNULAR SPACE WITH PREFORMED PLASTIC SEALING COMPOUND

**CONNECTION OF PROPOSED SANITARY SEWER
LATERAL TO EXISTING MANHOLE DETAIL**
NO SCALE



NOTE

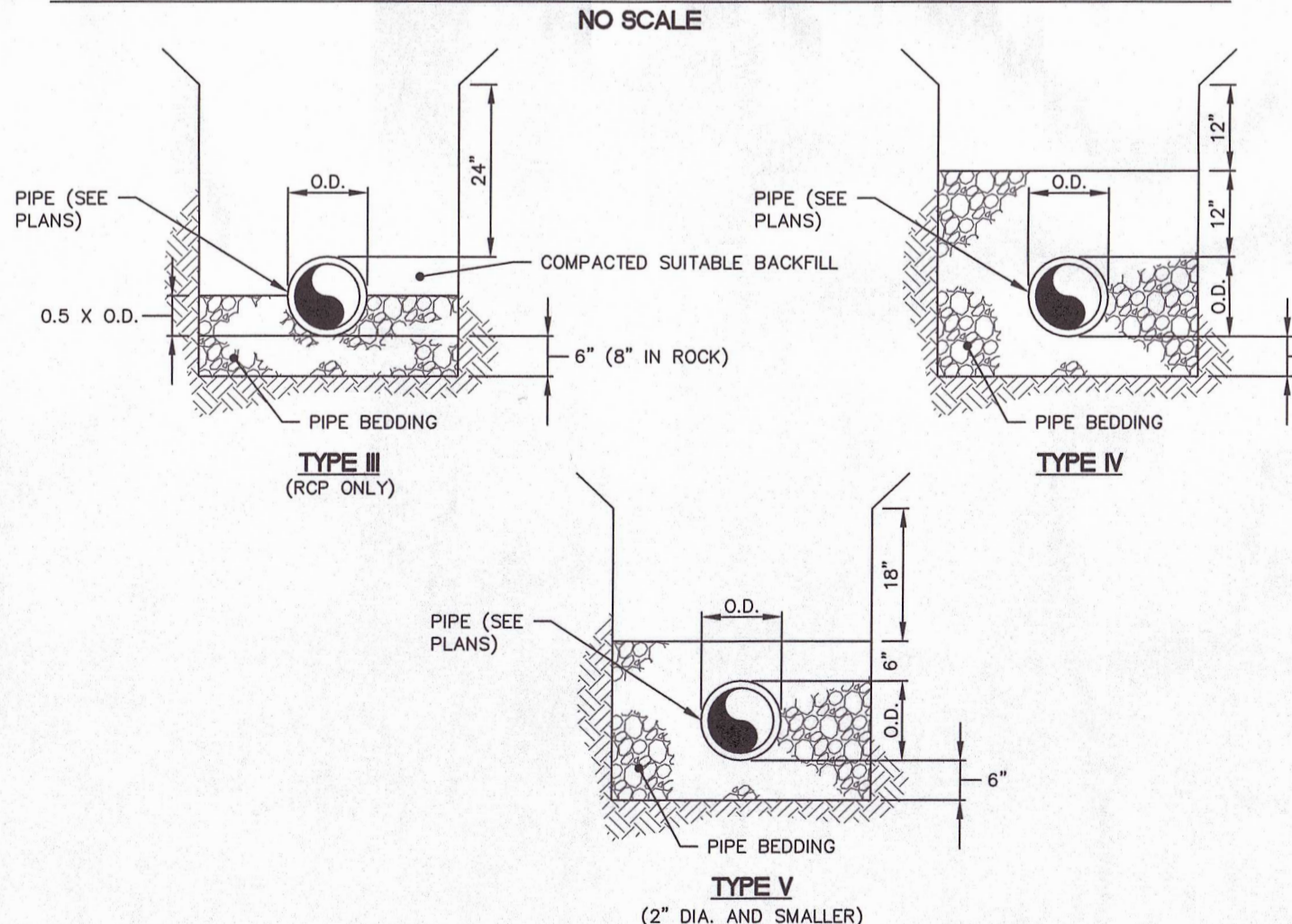
1. CLEANOUT TO BE INSTALLED AT HOUSE CONSTRUCTION PHASE ONLY. INSTALL WYE ONLY AND PLUG FOR FUTURE CLEANOUT INSTALLATION. CLEANOUT TO BE LOCATED BETWEEN RIGHT-OF-WAY AND SIDEWALK.
2. SANITARY SEWER LATERALS TO BE 6" DIA. FROM SEWER TO RIGHT-OF-WAY.



NOTE

1. INSTALL SANITARY SEWER LATERAL (INCLUDING REQUIRED CLEANOUTS, HOUSE TRAP(S), VENT(S) AS APPLICABLE) IN ACCORDANCE WITH ALL APPLICABLE REGULATORY AGENCY/MUNICIPALITY/AUTHORITY CONSTRUCTION SPECIFICATIONS.

TYPICAL SANITARY SEWER LATERAL CONNECTION



- NOTES:
1. COMPACT ALL BACKFILL TO 95% STANDARD PROCTOR (ASTM D698).
 2. UNLESS NOTED OTHERWISE, ALL ROAD REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST REVISION OF THE MUNICIPALITY'S OR SEWER AUTHORITY'S STANDARD DETAILS OR PER PENNDOT STANDARDS, IF WITHIN A STATE ROAD.

TYPICAL SANITARY SEWER PIPE TRENCH BEDDING
AND BACKFILLING DETAIL
NO SCALE

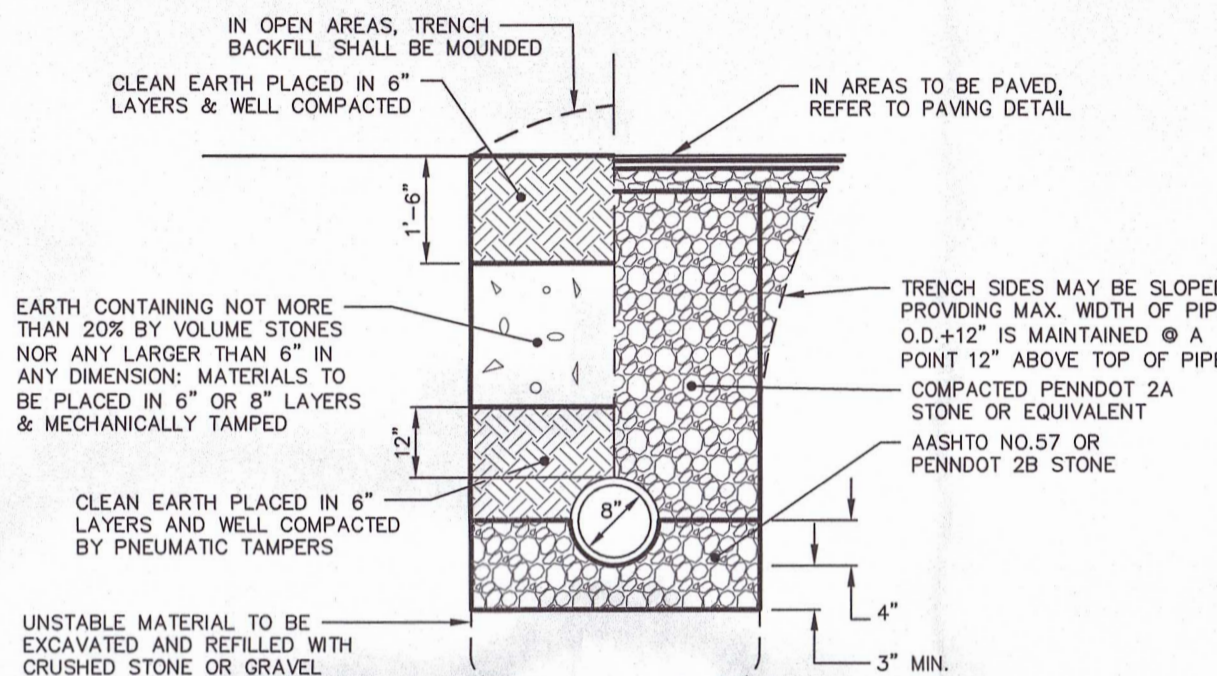
PERMANENT SEEDING AND MULCHING SPECIFICATIONS AND NOTES

PERMANENT GRASS OR LEGUME COVER

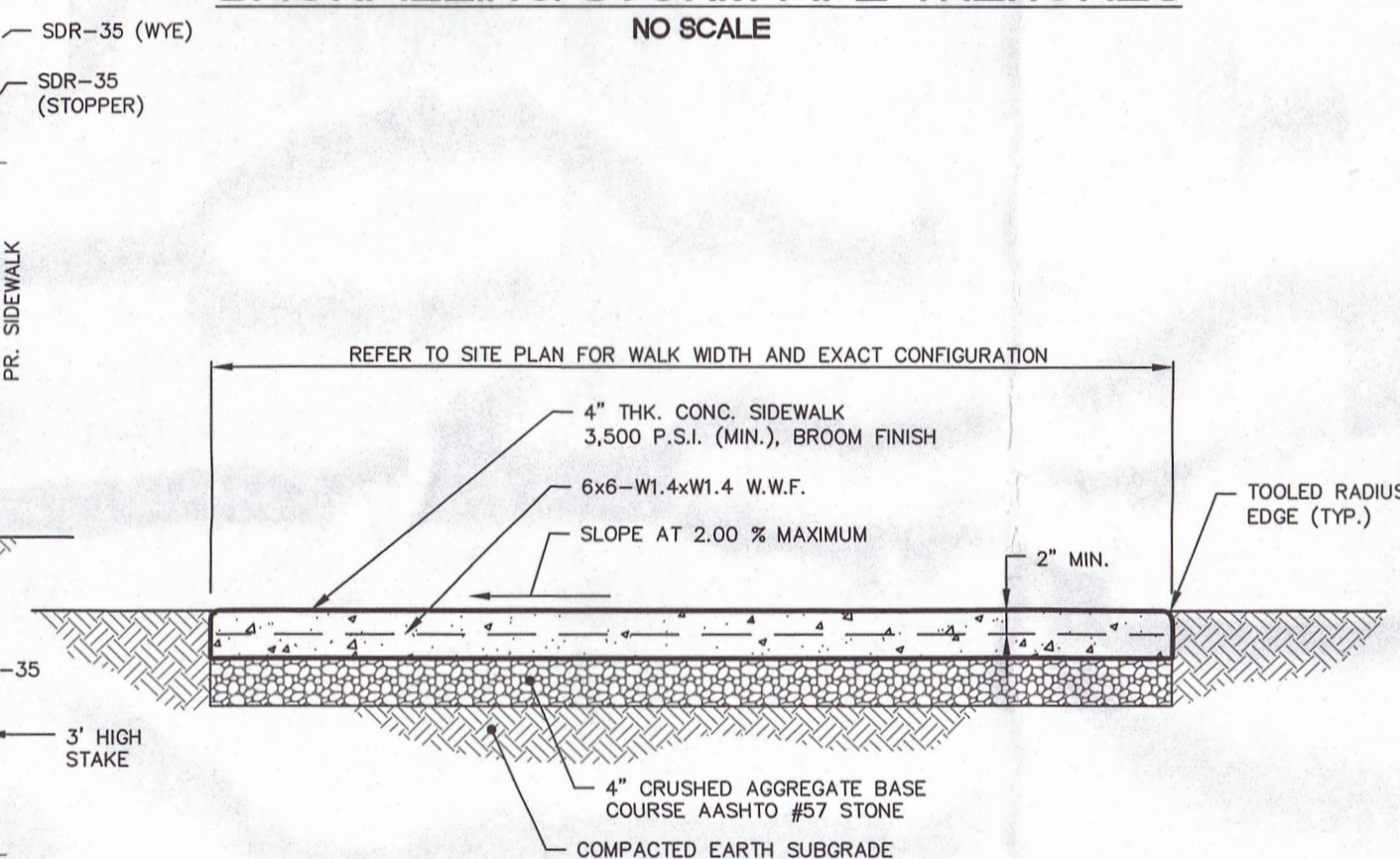
- A. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED SHALL BE COVERED WITH GRASS OR A LEGUME IN ORDER TO MINIMIZE EROSION, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- B. MULCHING SHALL BE USED TO PROTECT SEEDING AND TO REDUCE RUNOFF. STRAW MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS AT A RATE OF 3 TONS/ACRE.

SEED TYPE	% BY WT.	SEEDING RATE	SEEDING DATES
LAWN MIX (USED THROUGHOUT SITE)			
KY. BLUEGRASS	30%	4 LBS./1,000 S.F.	MARCH 15 TO JUNE 1
CREEP RED FESCUE	55%		AUGUST 1 TO OCTOBER 15
PERENNIAL RYEGRASS	15%		

- D. IN THE ABSENCE OF SOIL TEST RESULTS, FERTILIZER OF 10-20-20 AT AN APPLICATION RATE OF 1,000 LB./ACRE SHALL BE APPLIED WITH THE PERMANENT SEEDING.
- E. IN THE ABSENCE OF SOIL TEST RESULTS, LIME AT AN APPLICATION RATE OF 6 TONS/ACRE OF AGRICULTURAL GRADE LIME SHALL BE APPLIED WITH THE PERMANENT SEEDING.
- F. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE CRIMPING SHOULD BE DONE BEFORE THE STRAW OR HAY IS CRIMPED BY THE TRUCKS. CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

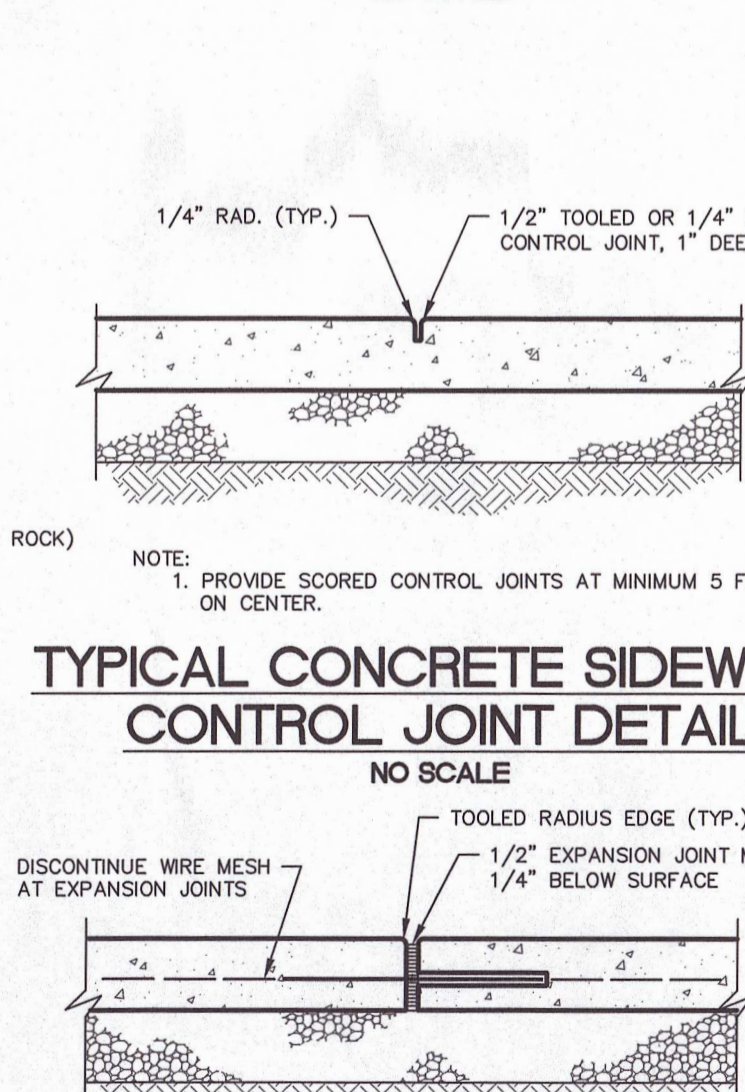


TYPICAL METHOD OF BEDDING AND BACKFILLING STORM PIPE TRENCHES



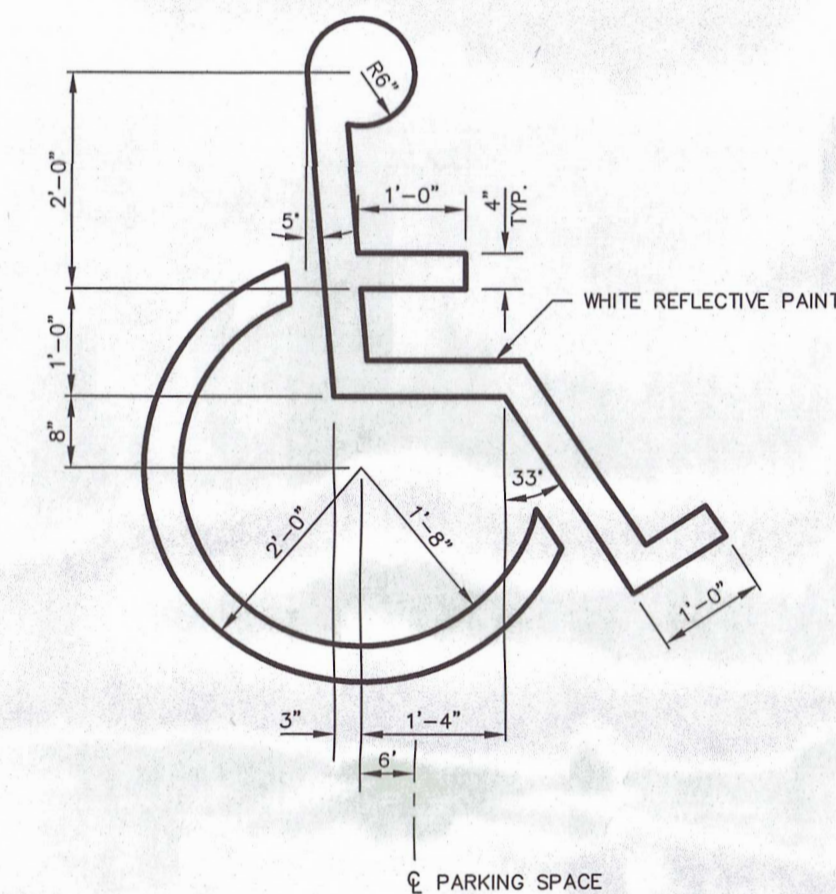
- NOTES:
1. PROVIDE EXPANSION JOINTS AT MINIMUM 20 FT. CENTER TO CENTER.
 2. PROVIDE SCORED CONTROL JOINTS AT MINIMUM 5 FT. CENTER TO CENTER.
 3. ALL CONCRETE IS TO MEET ACI-318 CONSTRUCTION STANDARDS.
 4. PROVIDE TOOLED RADIUS EDGES ON ALL EXPOSED EDGES/CORNERS.

TYPICAL CONCRETE SIDEWALK DETAIL
NO SCALE



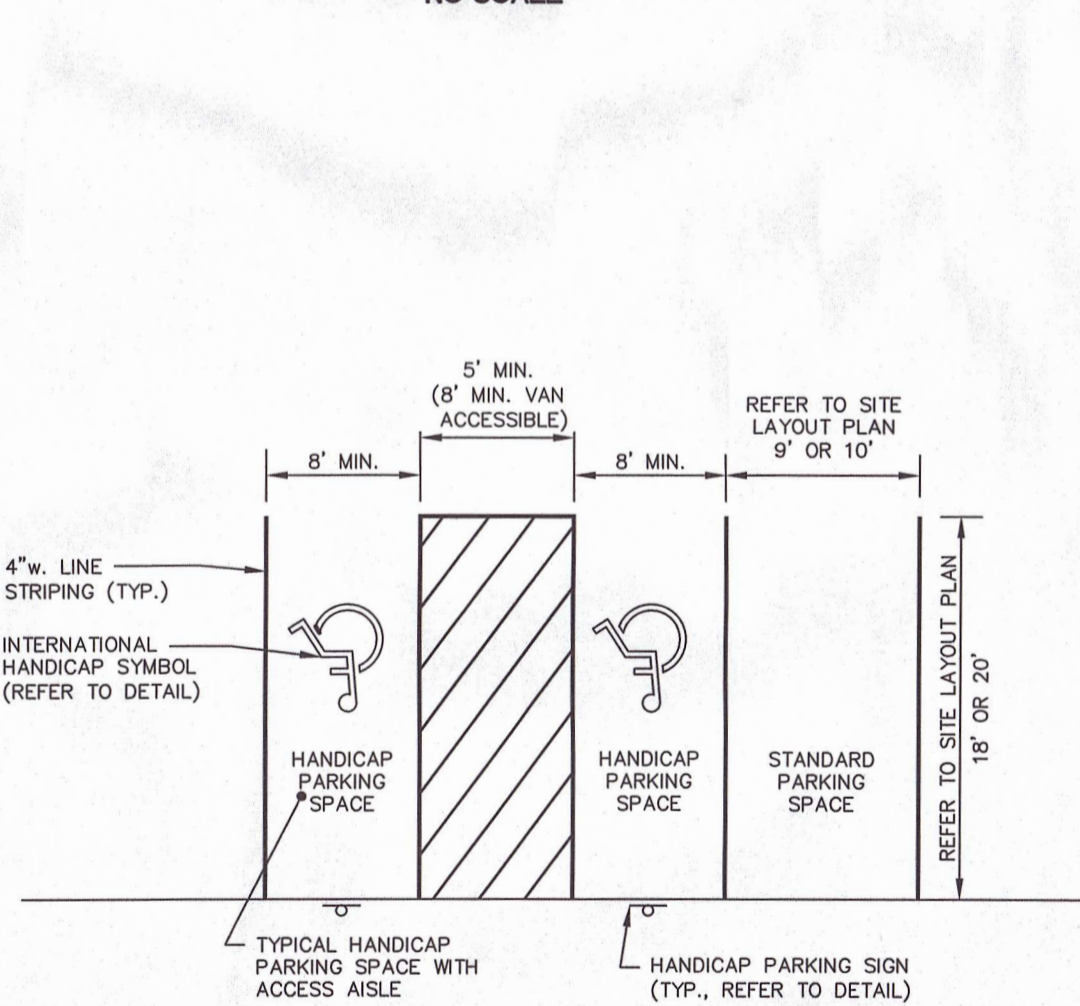
- NOTES:
1. PROVIDE EXPANSION JOINTS AT MINIMUM 20' ON CENTER, OR AS SPECIFIED OTHERWISE ON THE PLANS/DETAILS.
 2. NO. 4 REBAR SPACED AT 24" ON CENTER (MAXIMUM) - ONE END TO BE RENDERED BONDLESS.

**TYPICAL CONCRETE
EXPANSION JOINT DETAIL**



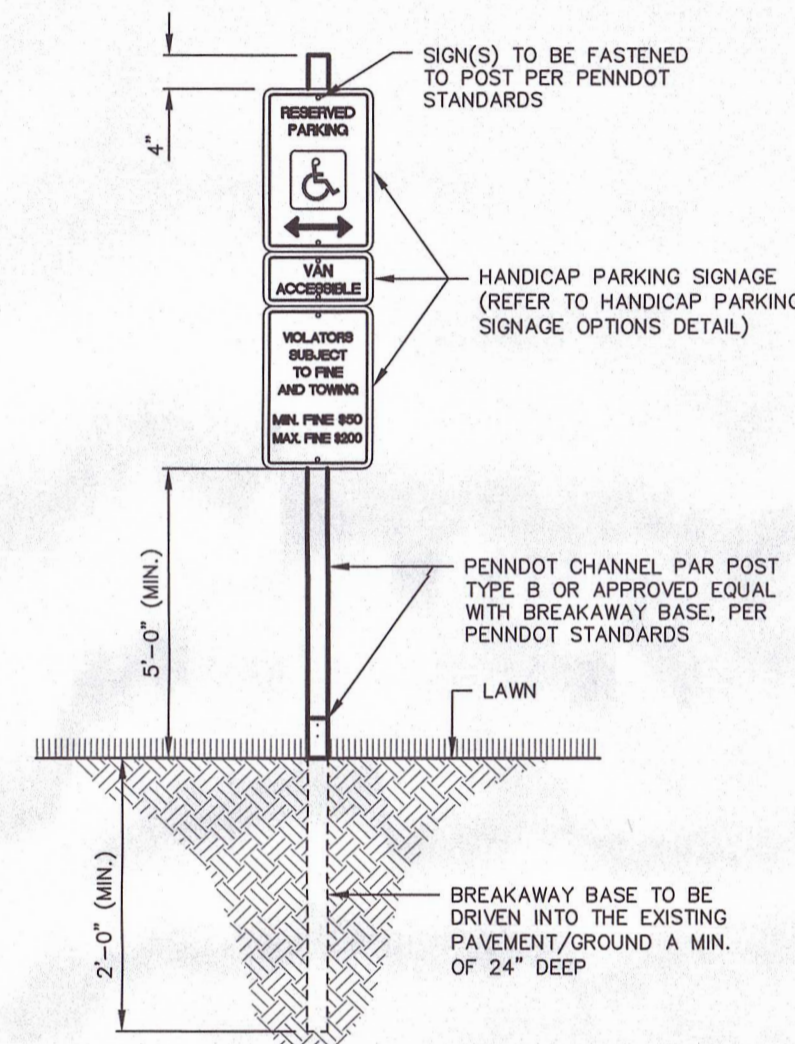
- NOTES:
1. REFER TO SITE PLAN FOR SYMBOL LOCATIONS.
 2. PRIOR TO INSTALLATION, CONTRACTOR SHALL CONFIRM THE INTERPRETATION OF THE MUNICIPAL BUILDING INSPECTOR REGARDING A.D.A. ACCESSIBLE PARKING SPACE STRIPING AND SIGNAGE INSTALLATION REQUIREMENTS.

INTERNATIONAL HANDICAP PAINTED PARKING SPACE SYMBOL



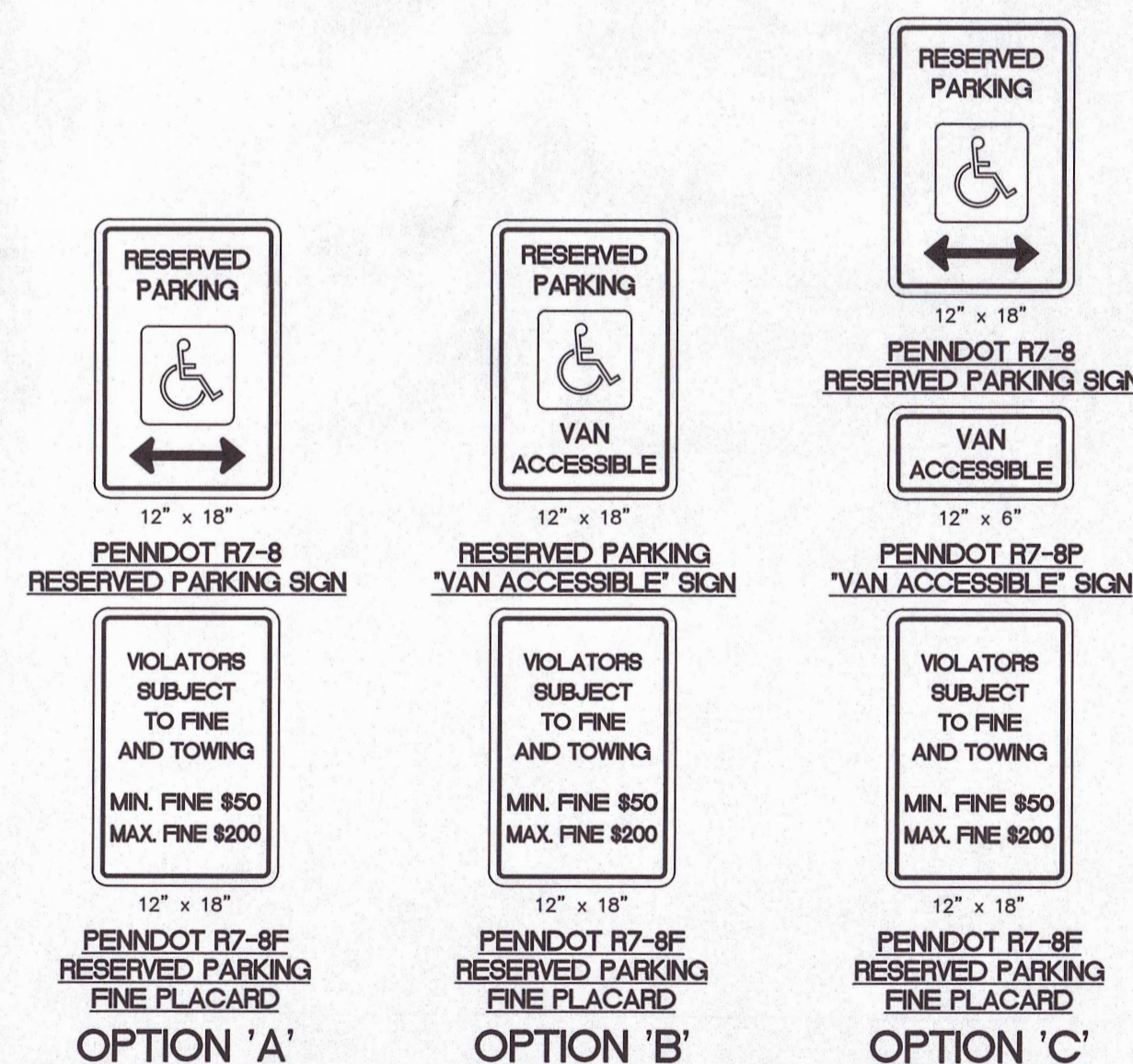
- NOTES:
1. A.D.A. ACCESSIBLE VEHICLE STANDING (PARKING) SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE. SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.
 2. LINE WIDTH SHALL BE 4" UNLESS INDICATED OTHERWISE. COLOR SHALL BE WHITE. SURFACES SHALL BE DRY, CLEAN AND FREE OF TRAFFIC. ALL LINES SHALL BE STRAIGHT, TRUE AND NEAT. PAINT SHALL BE APPLIED IN TWO COATS HAVING A FINAL DRY THICKNESS OF 12 MILS. MINIMUM.
 3. LINE PAINTING, AS INDICATED ON DRAWINGS, SHALL BE HIGHWAY APPROVED TYPE, IN ACCORDANCE WITH PENNDOT SPECIFICATIONS.
 4. STANDARD HANDICAP SYMBOL SHALL BE PAINTED WHITE ON BLUE PAINTED CURB AS REQUIRED BY UNIFORM ACCESSIBILITY STANDARDS AND DETAIL PROVIDED BY THE ENGINEER.
 5. A.D.A. STANDARDS FOR ACCESSIBLE DESIGN, LISTED IN APPENDIX A OF THE TITLE REGULATIONS, SHALL BE COMPLIED WITH. EVERY SIGN SHALL BE 48" HIGH, BUT NOT LESS THAN 36" HIGH. EVERY SIGN BE SERVED BY AN ACCESS AISLE 96" MIN. WIDE AND SHALL BE DESIGNATED "VAN ACCESSIBLE" AS REQUIRED BY 4.6.4, IN THIS CASE A "VAN ACCESSIBLE" SIGN MUST BE PROVIDED IN ADDITION TO A "RESERVED PARKING" SIGN.
 6. PRIOR TO INSTALLATION, CONTRACTOR SHALL CONFIRM THE INTERPRETATION OF THE MUNICIPAL BUILDING INSPECTOR REGARDING A.D.A. ACCESSIBLE PARKING SPACE STRIPING AND SIGNAGE INSTALLATION REQUIREMENTS.

TYPICAL HANDICAP PARKING SPACE STRIPING



- NOTES:
1. WHERE HANDICAP PARKING IS FACING A BUILDING WALL AND/OR CONCRETE WALK, SIGN MAY BE MOUNTED ON THE BUILDING WALL AT THE PROPER HEIGHT. UPON OWNER APPROVAL.
 2. ANY FREESTANDING SIGN IN PARKING LOT SHALL BE MOUNTED AS SHOWN.
 3. PROVIDE SIGNAGE ON BOTH SIDES OF POST WHEN REQUIRED.
 4. USE EXTREME CARE WHEN INSTALLING SIGNS NEAR/OVER EXISTING UTILITY LINES.
 5. PRIOR TO INSTALLATION, CONTRACTOR SHALL CONFIRM THE INTERPRETATION OF THE MUNICIPAL BUILDING INSPECTOR REGARDING A.D.A. ACCESSIBLE PARKING SPACE STRIPING AND SIGNAGE INSTALLATION REQUIREMENTS.

TYPICAL HANDICAP PARKING SIGN
WITH STEEL POST DETAIL
NO SCALE



- NOTES:
1. HANDICAP SIGNAGE SHALL BE PROVIDED AND INSTALLED PER PENNDOT (TITLE 67, CH. 212, OFFICIAL TRAFFIC-CONTROL DEVICES) AND/OR MUNICIPAL REQUIREMENTS, AS APPLICABLE.
 2. A.A.A. STANDARDS FOR ACCESSIBLE DESIGN, LISTED IN APPENDIX A OF THE TITLE II REGULATIONS, SECTION 4.1.2(S)(3) STATES ONE IN EVERY EIGHT ACCESSIBLE SPACES, BUT NO LESS THAN ONE SHALL BE SERVED BY AN ACCESSIBLE SPACE. "VAN ACCESSIBLE" SIGN SHALL BE PROVIDED IN ADDITION TO "VAN ACCESSIBLE" SIGN. IN THIS CASE A "VAN ACCESSIBLE" SIGN MUST BE PROVIDED IN ADDITION TO A "RESERVED PARKING" SIGN.
 3. WHERE HANDICAP PARKING IS FACING A BUILDING WALL AND/OR CONCRETE WALL, SIGN MAY BE MOUNTED ON BLDG. WALL AT PROPER HEIGHT.
 4. PRIOR TO INSTALLATION, CONTRACTOR SHALL CONFIRM THE INTERPRETATION OF THE MUNICIPAL BUILDING INSPECTOR REGARDING A.A.A. ACCESSIBLE PARKING SPACE STRIPING AND SIGNAGE INSTALLATION REQUIREMENTS.
 5. WHERE NON-"VAN ACCESSIBLE" HANDICAP PARKING SPACES ARE REQUIRED, USE SIGN OPTION "A": WHERE HANDICAP PARKING SPACES ARE RESERVED FOR "VAN ACCESSIBLE" USE, OPTION "B" OR "C" IN PROJECTS UNDER PENNDOT CONTRACT. USE OF "VAN ACCESSIBLE" SIGN IS REQUIRED FOR ALL "VAN ACCESSIBLE" SPACES.

TYPICAL HANDICAP PARKING SIGNAGE OPTIONS

P:\CIVIL\2023\12414-LD-1.dwg 6/26/2023 9:49 AM User: jason.gary 3600 Trinity High School for Auxiliary GWS

INSPECTION / MAINTENANCE / REPAIRS FOR BMP FACILITIES

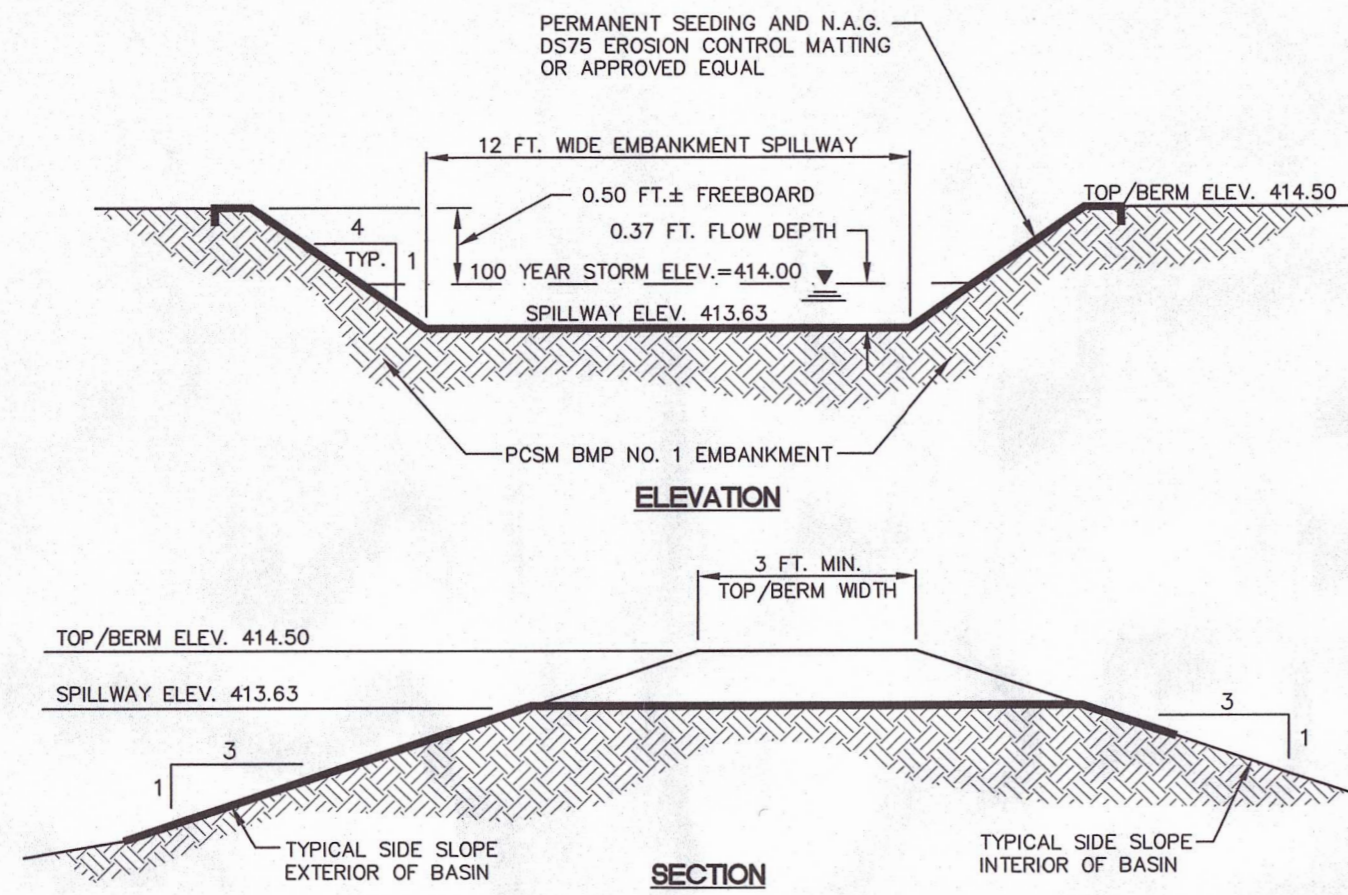
STORMWATER MANAGEMENT BMP'S SHALL BE INSPECTED BY THE LANDOWNER OR THE OWNER'S DESIGNEE ACCORDING TO THE FOLLOWING LIST OF MINIMUM FREQUENCIES:

1. AT LEAST FOUR TIMES EACH YEAR.
2. DURING OR IMMEDIATELY AFTER THE CESSATION OF A STORM EVENT EXCEEDING 1 INCH OF RAINFALL.
3. ALL WASTE AND MATERIALS DEPOSITED IN AND REMOVED FROM POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) BMP FACILITIES AND FROM IMPERVIOUS AREAS (EX. SWEEPING OF STREETS AND PARKING LOTS) DURING OPERATION AND MAINTENANCE SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENTS SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO WASTE MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

INFILTRATION BASINS

MAINTENANCE & INSPECTION

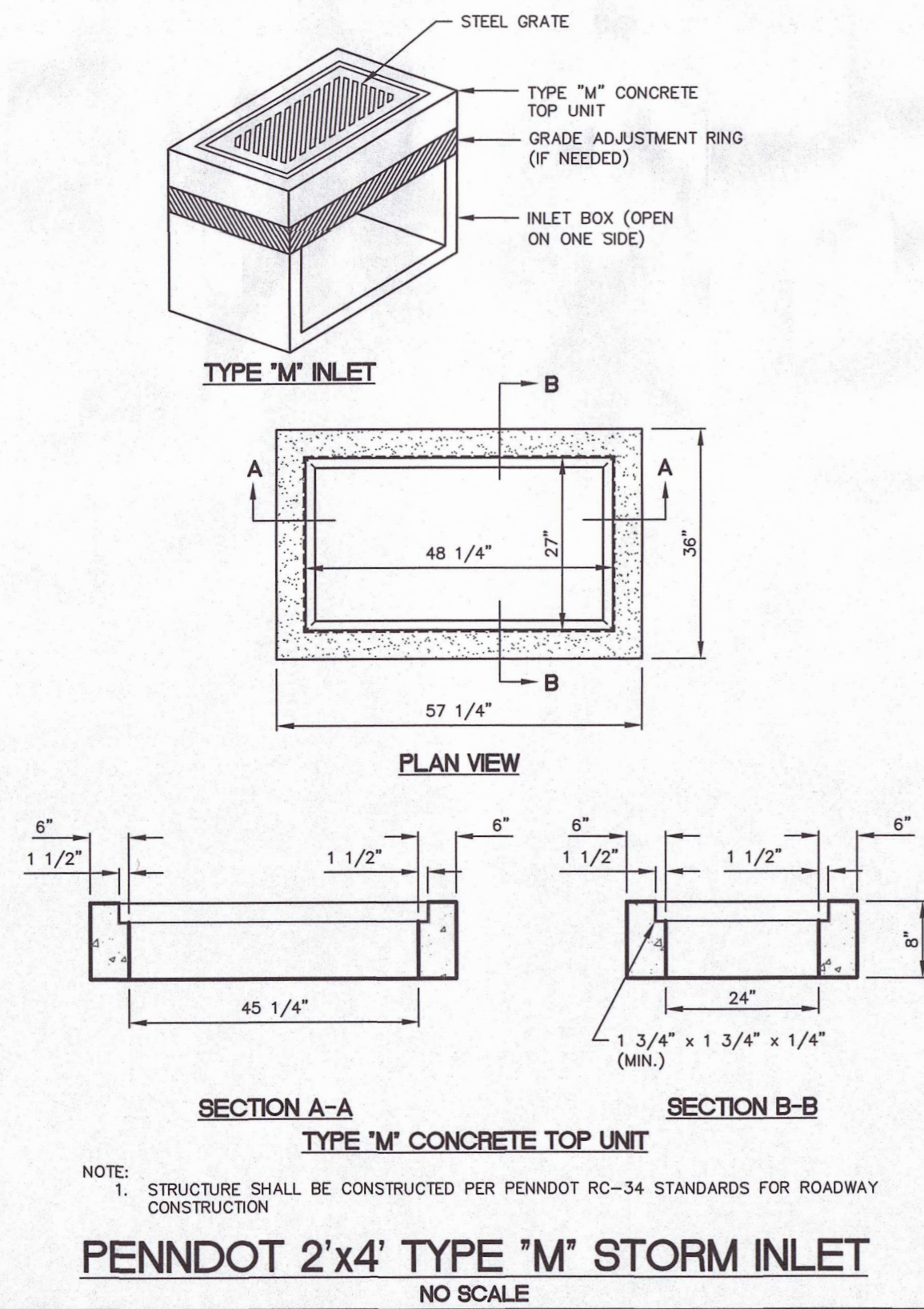
- INSPECTION SHALL INCLUDE INFILTRATION BASIN MEADOW OR GRASS AREAS, OUTLET CONTROL STRUCTURE, INLET STRUCTURES, AND AREAS DRAINING TO BASINS.
- IF FOUND DURING INSPECTIONS, REMOVE SEDIMENT, TRASH AND OTHER DEBRIS FROM INFILTRATION BASIN MEADOW AND GRASS AREAS, INLET STRUCTURES AND AREAS DRAINING TO BASINS. IMMEDIATELY IMPLEMENT NEEDED REPAIRS OR ACTIONS.
- DURING INSPECTIONS AFTER RAIN EVENTS, INSPECT INFILTRATION BASIN MEADOW OR GRASS AREAS AND INLETS TO DETERMINE IF THE FACILITIES DRAIN BETWEEN 24 AND 72 HOURS.
- MAINTAIN INFILTRATION BASIN MEADOW AREAS IN GOOD CONDITION (I.E. UNIFORM PERENNIAL VEGETATIVE COVERAGE). IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS. RESTRICT MOWING OF BASIN MEADOW AREAS TO ONCE EACH SPRING AND ONCE EACH FALL, DURING DRY PERIODS GREATER THAN 72 HOURS AFTER STORM/RAINFALL EVENTS.
- MAINTAIN INFILTRATION BASIN GRASS AREAS IN GOOD CONDITION, GRASS STABILIZATION (I.E. >75% UNIFORM PERENNIAL 3"-6" GRASS COVERAGE). IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS. RESTRICT MOWING TO DRY PERIODS GREATER THAN 72 HOURS AFTER STORM/RAINFALL EVENTS.
- RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC ON INFILTRATION AREAS TO ONLY THAT NECESSARY FOR MOWING OR BMP REPAIRS.
- PROHIBIT STORAGE OF HAZARDOUS MATERIALS ON ANY AREA THAT DRAINS TO INFILTRATION BASINS.



- NOTES:
1. REFER TO SITE GRADING PLAN FOR EMERGENCY SPILLWAY LOCATION AND GRADING DETAILS.
 2. EROSION CONTROL MATTING TO BE INSTALLED/ANCHORED ON SPILLWAY BOTTOM, SIDE SLOPES AND OUTSIDE EMBANKMENT SLOPE PER MANUFACTURER'S RECOMMENDATIONS.

INFILTRATION BASIN EMERGENCY SPILLWAY AND EMBANKMENT CROSS-SECTION DETAIL

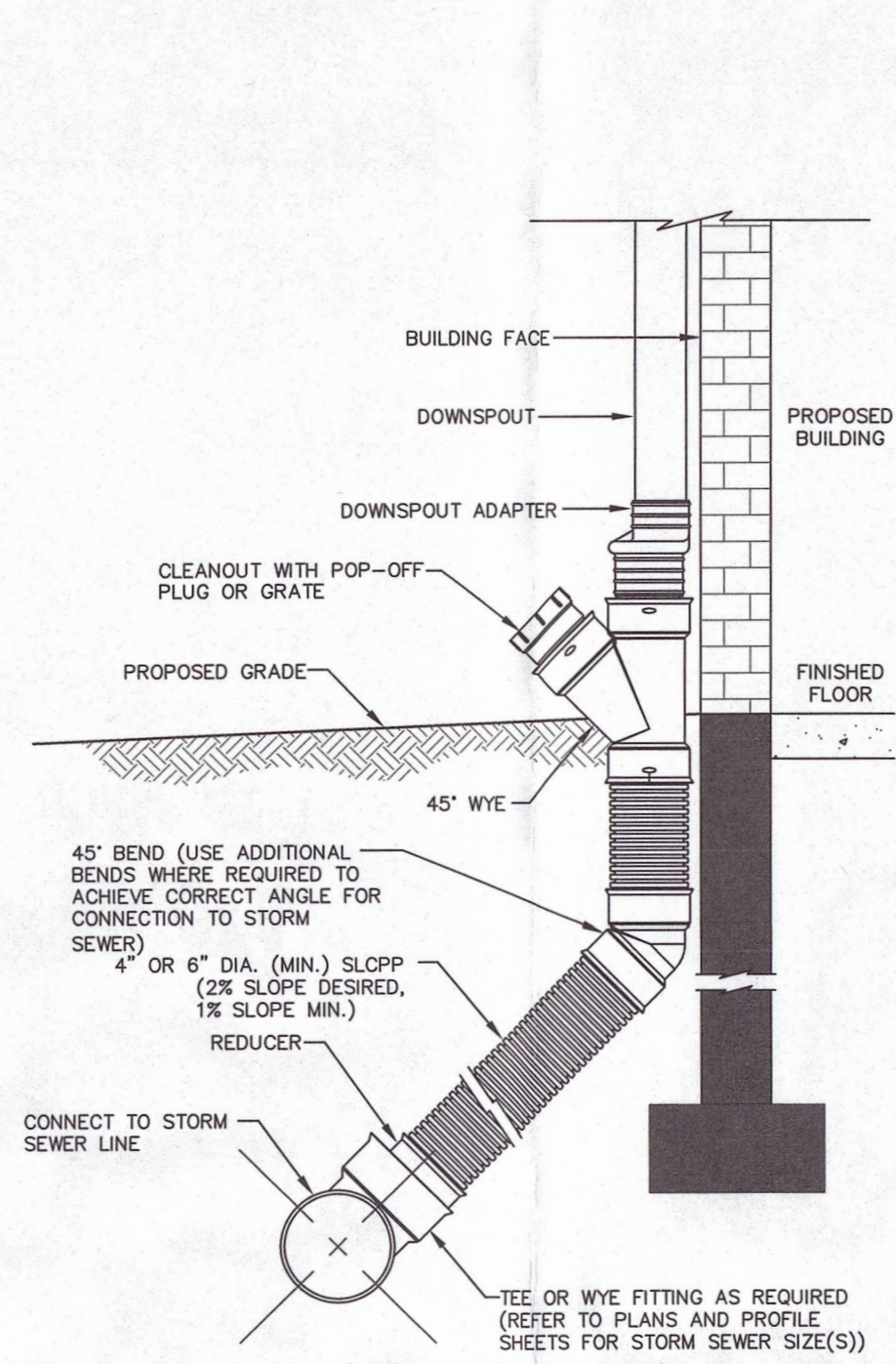
NO SCALE



- NOTE:
1. STRUCTURE SHALL BE CONSTRUCTED PER PENNDOT RC-34 STANDARDS FOR ROADWAY CONSTRUCTION

PENNDOT 2'x4' TYPE 'M' STORM INLET

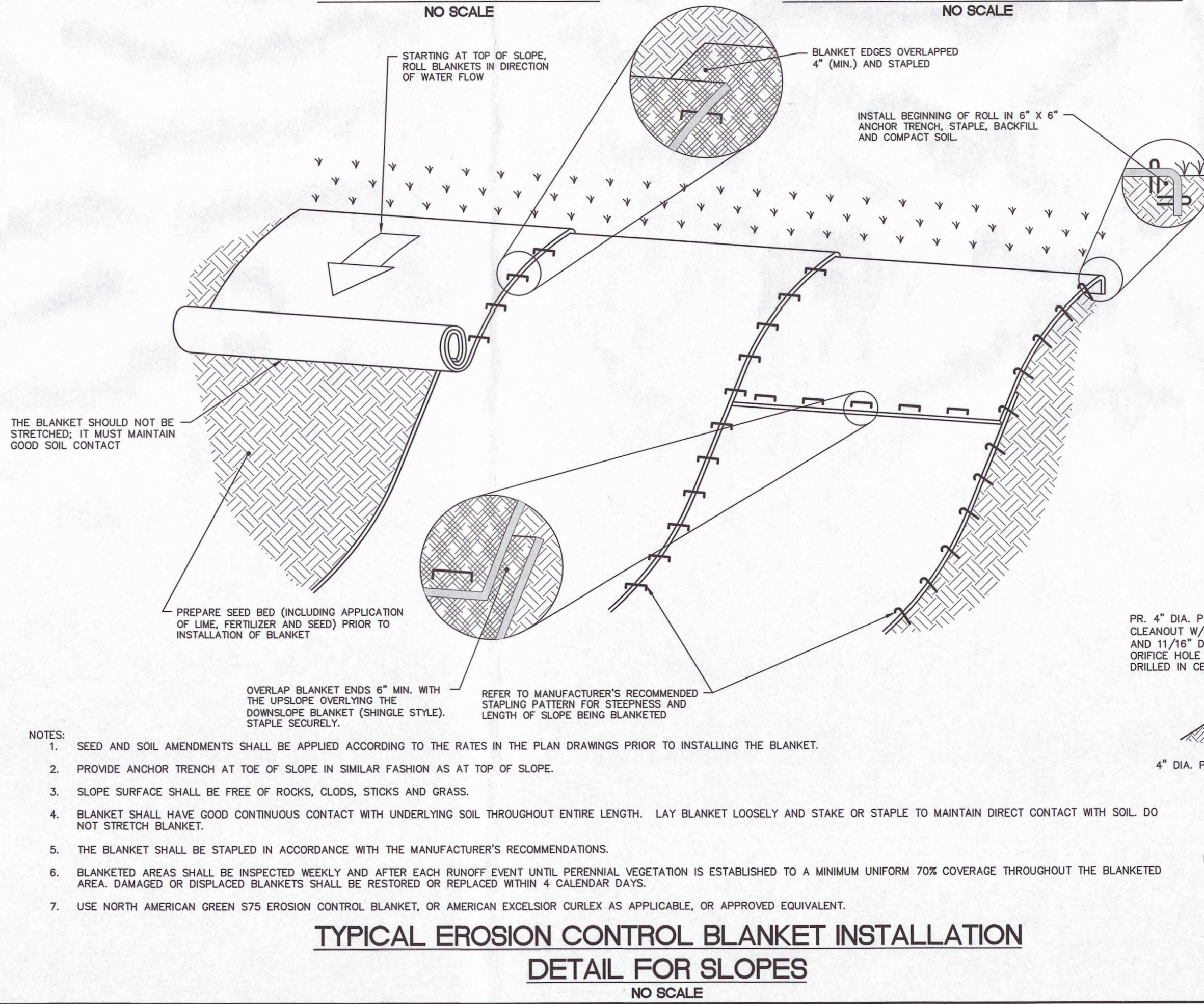
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- NOTES:
1. REFER TO SITE GRADING PLAN(S) FOR DOWNSPOUT CONNECTION PIPE SIZES, INVERT ELEVATIONS AND TIE-IN LOCATIONS.
 2. IF BUILDING DOWNSPOUT LOCATIONS ARE NOT SHOWN ON THE SITE PLANS, CONTRACTOR SHALL DETERMINE THE LOCATIONS BASED UPON THE ARCHITECTURAL PLANS AND VERIFY THE FINAL PIPE SIZES AND CONNECTION POINTS WITH THE SITE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

TYPICAL DOWNSPOUT CONNECTION TO COLLECTOR PIPE

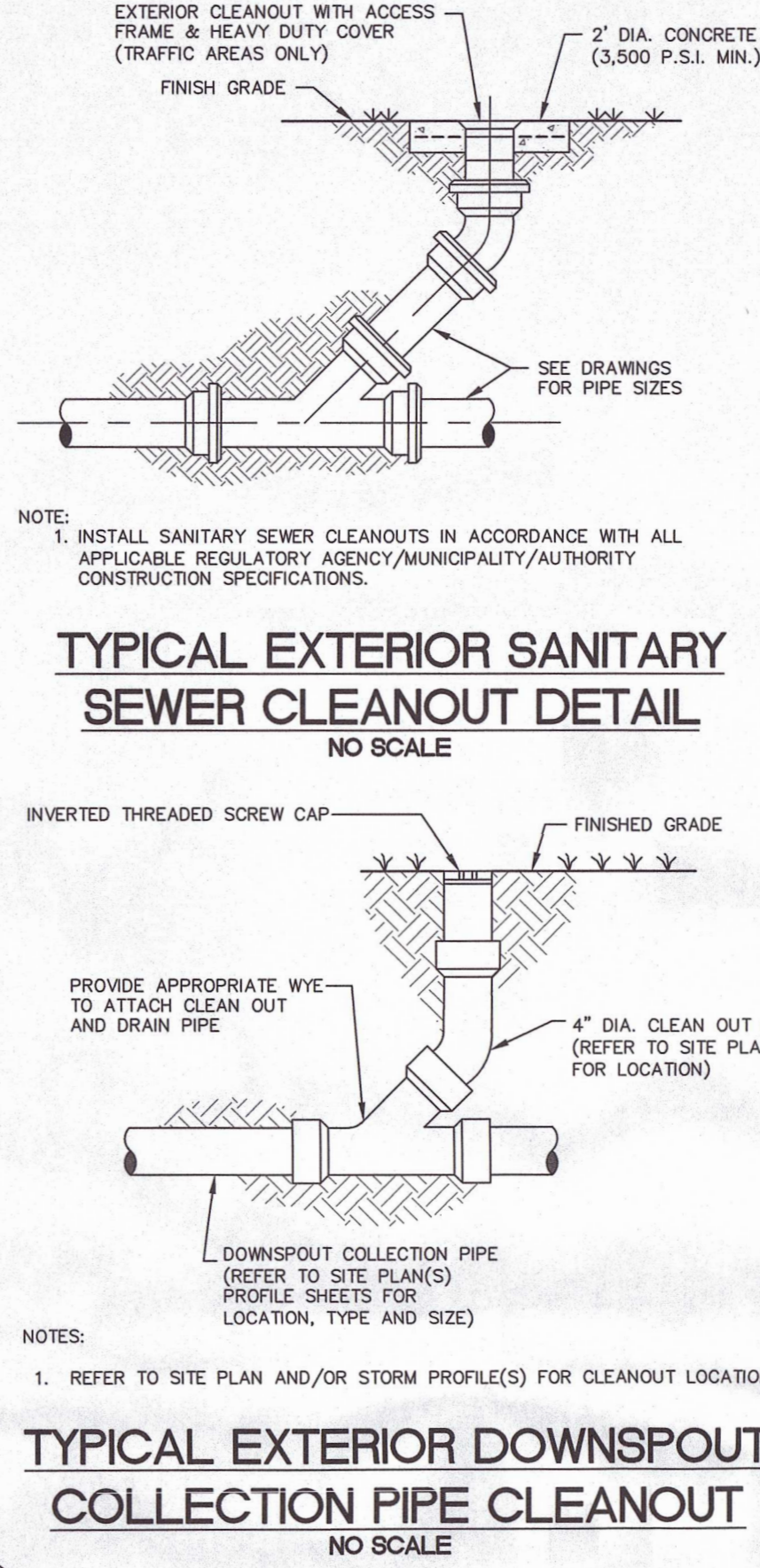
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- NOTES:
1. SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
 2. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
 3. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS.
 4. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
 5. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 6. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.
 7. USE NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKET, OR AMERICAN EXCELSIOR CURLEX AS APPLICABLE, OR APPROVED EQUIVALENT.

TYPICAL EROSION CONTROL BLANKET INSTALLATION DETAIL FOR SLOPES

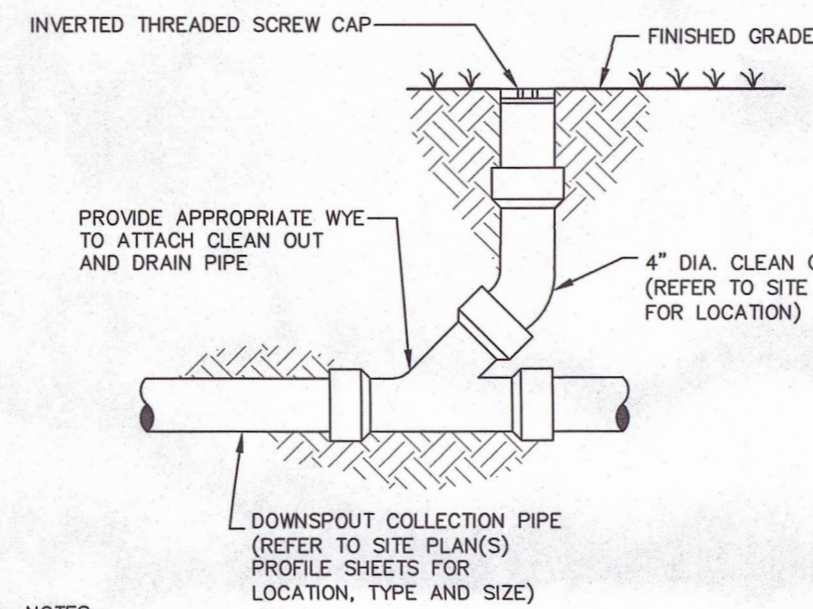
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- NOTE:
1. INSTALL SANITARY SEWER CLEANOUTS IN ACCORDANCE WITH ALL APPLICABLE REGULATORY AGENCY/MUNICIPALITY/AUTHORITY CONSTRUCTION SPECIFICATIONS.

TYPICAL EXTERIOR SANITARY SEWER CLEANOUT DETAIL

NO SCALE



- NOTES:
1. REFER TO SITE PLAN AND/OR STORM PROFILE(S) FOR CLEANOUT LOCATIONS.

TYPICAL EXTERIOR DOWNSPOUT COLLECTION PIPE CLEANOUT

NO SCALE

ORGANIC AMENDED SOILS NOTES AND SPECIFICATIONS

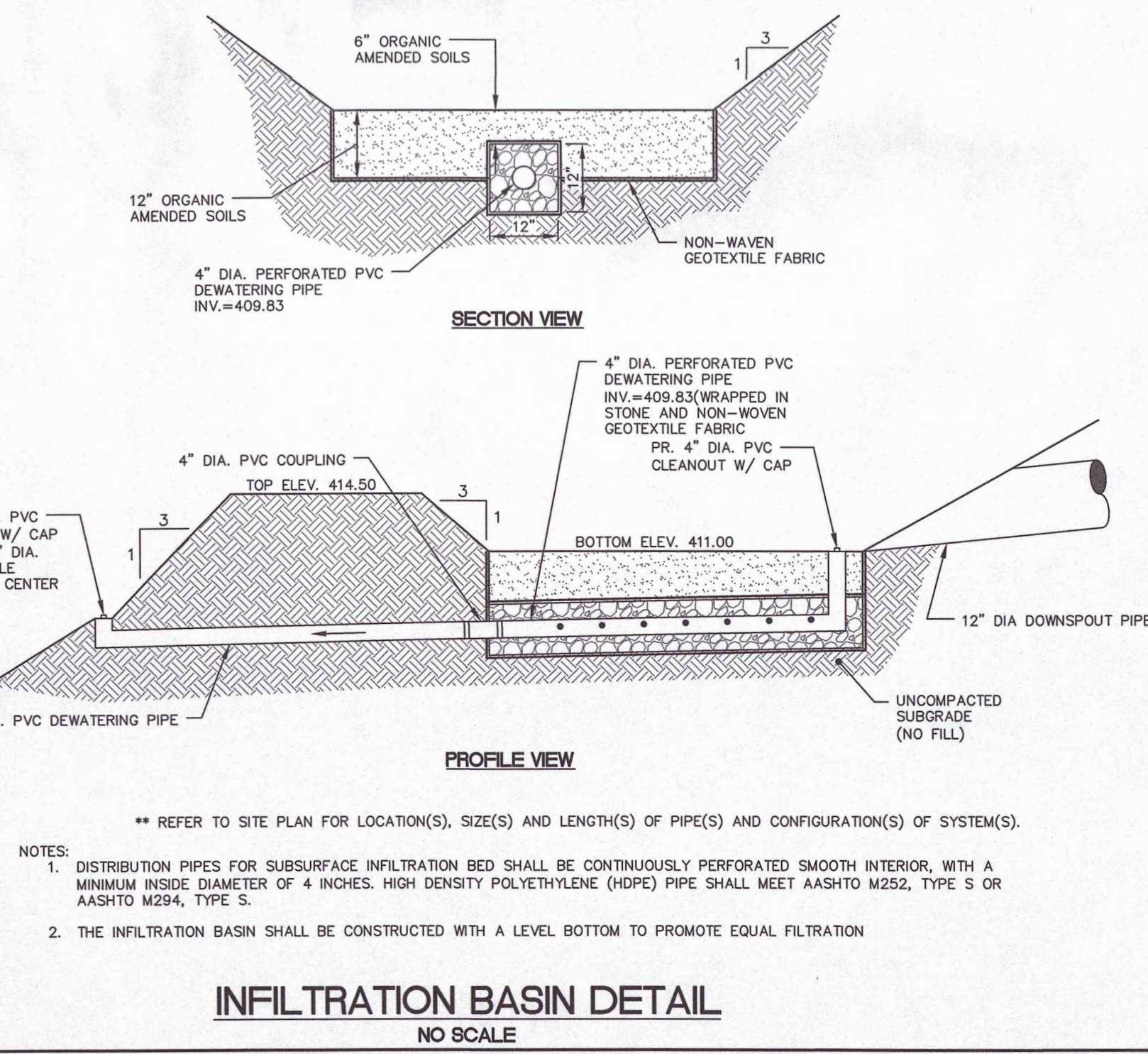
1. REFER TO OTHER PLAN SHEETS HEREIN FOR LIMITS OF PLACEMENT OF AMENDED SOILS.
2. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON DISCOVERY OF SATURATED CONDITIONS OR ROCK WITHIN THE SWM FACILITY BED EXCAVATION(S).
3. LANDSCAPING WITHIN SWM FACILITIES SHALL BE PROVIDED IN ACCORDANCE WITH THE SITE PLAN, DETAILS AND MAINTENANCE NOTES.
4. SWM FACILITIES AND OUTLET STRUCTURES SHALL BE MAINTAINED PER STORMWATER MANAGEMENT SYSTEM/BMP FACILITY MAINTENANCE REQUIREMENTS FOR THE PROJECT.
5. THE ORGANIC AMENDED SOIL MIX:
 - 30% SAND (CLEAN SAND FREE OF DELETERIOUS MATERIALS MEETING AASHTO M-6 OR ASTM C-33)
 - 50% SOIL (LOAMY SAND OR SANDY LOAM USDA CLASSIFICATION, WITH A CLAY CONTENT OF LESS THAN 10%)
 - 20% ORGANIC LEAF COMPOST OR MUSHROOM COMPOST (TO INCREASE WATER HOLDING CAPACITY)
6. THE ORGANIC AMENDED SOIL MIXTURE SHALL BE TESTED PRIOR TO PLACEMENT AND SHALL MEET THE FOLLOWING CRITERIA:

	COMPOST	SAND	SILT LOAM
PERMEABILITY (CM/HR)	—	3.30	0.1-0.40
WATER HOLDING CAPACITY (CM/CM)	—	0.14	0.07-0.10
BULK DENSITY (G/CM)	1.0-2.0	2.65	1.25
pH	7.8	—	5.7
ORGANIC MATTER (%)	30-70	0.0-1.0	0.0-20.0
CATION EXCHANGE CAPACITY	66	1-3	12-18
TOTAL PHOSPHORUS (%)	0.00-0.10	0.0	0.09
TOTAL NITROGEN (%)	0.0-1.0	0.0	0.15
FILTRATION EFFICIENCY AFTER 18" (%)	16	93	94

- A. SHOULD THE pH FALL OUTSIDE OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED WITH LIME (TO RAISE) OR IRON SULFATE PLUS SULFUR (TO LOWER). THE LIME OR IRON SULFATE MUST BE MIXED UNIFORMLY INTO THE ASM PRIOR TO USE IN INFILTRATION/RETENTION BASIN AND FOREBAYS.
- B. SHOULD THE ASM NOT MEET THE MINIMUM REQUIREMENT FOR MAGNESIUM, IT MAY BE MODIFIED WITH MAGNESIUM SULFATE. LIKEWISE, SHOULD THE ASM NOT MEET THE MINIMUM REQUIREMENT FOR POTASSIUM, IT MAY BE MODIFIED WITH POTASH. MAGNESIUM SULFATE AND POTASH MUST BE MIXED UNIFORMLY INTO THE ASM PRIOR TO USE IN INFILTRATION BASIN.
- C. PLANTING SOIL AND/OR ASM THAT FAILS TO MEET THE MINIMUM REQUIREMENT SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER. MIXING OF THE CORRECTIVE ADDITIVES TO THE ASM IS INCIDENTAL AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER. D. MIXING OF THE ASM TO A HOMOGENEOUS CONSISTENCY SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.
- E. ALL TESTING AGENCY RESULTS SHALL BE PROVIDED TO THE OWNER, UPON RECEIPT BY THE CONTRACTOR.
7. THE AMENDED SOIL MIXTURE (ASM) SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES, EXCLUDING MULCH. NO OTHER MATERIAL OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE SWM FACILITY AREAS THAT MAY NEGATIVELY IMPACT STABILITY, POROSITY, AND/OR COMPACTION OF ORGANIC AMENDED SOILS.
8. INSTALLATION OF AMENDED SOILS MUST BE COMPLETED IN A MANNER THAT WILL ENSURE ADEQUATE INFILTRATION. AFTER SCARIFYING THE BOTTOM OF THE SWM FACILITIES IN AREA OF THE AMENDED SOILS, INSTALL SOIL IN 8"-12" LIFTS. LIGHTLY WATER EACH LIFT TO ENCOURAGE NATURAL COMPACTION. LIFTS SHALL NOT BE COMPACTED BY ANY OTHER MEANS. OVERFILL ABOVE THE PROPOSED FINISH GRADE TO ACCOMMODATE NATURAL SETTLEMENT TO PROPER GRADE (UP TO 20% NATURAL COMPACTION MAY OCCUR).
10. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE ABOVE ORGANIC SOIL MIXTURE TESTING RESULTS IF MIXED ON-SITE AND/OR SUPPLYING THE PRE-MIX CERTIFICATION FROM THE SUPPLIER TO THE SITE ENGINEER PRIOR TO INSTALLATION.

STORMWATER MANAGEMENT FACILITIES OPERATION AND MAINTENANCE NOTES

1. THE OWNER OF THE PROPERTY ON WHICH THE STORMWATER MANAGEMENT FACILITIES (STORMWATER MANAGEMENT INFILTRATION BEDS 1 - 8 AND SUBSURFACE INFILTRATION CHAMBER SYSTEM) ARE CONSTRUCTED SHALL MAINTAIN THE BMP'S IN GOOD CONDITION AND PROMPTLY REPAIR AND RESTORE ALL GRADE SURFACES, DRAINS, INLET STRUCTURES, VEGETATION AND OTHER PROTECTIVE DEVICES AND REMOVE ACCUMULATED SEDIMENT/DEBRIS WITHIN THE FACILITIES. SUCH REPAIRS OR RESTORATIONS, AND MAINTENANCE SHALL BE IN ACCORDANCE WITH APPROVED PLANS.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND MAINTENANCE OF THE BMP'S UNTIL RELEASED FROM THIS PROJECT. THE LAND OWNERS/RESPONSIBLE PARTY (AS DEFINED BELOW) SHALL MAINTAIN THE BMP'S THEREAFTER.
3. UPON RELEASE OF THE CONTRACTOR FROM REPAIR AND MAINTENANCE OF THE BMP'S, THE OWNER, HIS HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR REPAIRING ANY STRUCTURAL DAMAGES OR FAILURES TO THE BMP'S WHICH MAY OCCUR AS A RESULT OF NEGLIGENCE, ACCIDENT OR MISUSE. IN THE EVENT OF STRUCTURAL DAMAGE, OWNER SHALL BE RESPONSIBLE TO MAKE NECESSARY REPAIRS AS QUICKLY AS POSSIBLE, BUT, IN ANY CASE, WITHIN A PERIOD NOT EXCEEDING 60 DAYS.
4. MAINTAIN AREAS DRAINING TO THE BMP'S TO PREVENT SOIL WASHOUT INTO THE FACILITIES. IMMEDIATELY STABILIZE BARE SPOTS OR ERODED AREAS. IMMEDIATELY REMOVE ALL TRASH OR OTHER LITTER.
5. RESTRICT VEHICULAR OR OTHER EQUIPMENT TRAFFIC WITHIN THE BIO-RETENTION BASINS TO ONLY THAT IS NECESSARY FOR MOWING OR BMP REPAIRS.
6. PROHIBIT STORAGE OF SOIL, MULCH OR HAZARDOUS MATERIALS WITHIN THE BMP'S OR WITHIN AREAS THAT DRAIN TO THE BMP'S.
7. THE OWNER SHALL NOT CONSTRUCT, PLANT, OR MAINTAIN ANY STRUCTURES, FENCES, TREES, SHRUBBERY, ETC. WITHIN THE SANITARY SEWER, STORM WATER OR UTILITY RIGHTS-OF-WAY/EASEMENTS, TO ENSURE A FREE AND CLEAR ACCESS TO ALL FACILITIES. BITUMINOUS PAVING, COMINGLING OF SANITARY SEWER, STORM WATER, OR UTILITIES, OR CHANGE IN GROUND CONTOURS WITHIN THE RIGHTS-OF-WAY/EASEMENTS MAY BE PERMITTED ONLY WITH WRITTEN CONSENT OF THE MUNICIPALITY.
8. ALL INSPECTION RECORDS SHALL BE MAINTAINED BY THE LAND OWNER FOR NOT LESS THAN FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO THE MUNICIPALITY WITHIN FIVE (5) CALENDAR DAYS, OF RECEIPT OF WRITTEN REQUEST BY THE MUNICIPALITY.
9. RESPONSIBLE PARTY: THE ROMAN CATHOLIC DIOCESE OF HARRISBURG (TRINITY HIGH SCHOOL), HEIRS OR ASSIGNS.



- ** REFER TO SITE PLAN FOR LOCATION(S), SIZE(S) AND LENGTH(S) OF PIPE(S) AND CONFIGURATION(S) OF SYSTEM(S).
- NOTES:
1. DISTRIBUTION PIPES FOR SUBSURFACE INFILTRATION BED SHALL BE CONTINUOUSLY PERFORATED SMOOTH INTERIOR, WITH A MINIMUM INSIDE DIAMETER OF 4 INCHES. HIGH DENSITY POLYETHYLENE (HDPE) PIPE SHALL MEET AASHTO M252, TYPE S OR AASHTO M294, TYPE S.
 2. THE INFILTRATION BASIN SHALL BE CONSTRUCTED WITH A LEVEL BOTTOM TO PROMOTE EQUAL FILTRATION

INFILTRATION BASIN DETAIL

NO SCALE

NO.	DATE	COMMENTS
1	04.28.23	REVISED PER TOWNSHIP ENGINEER AND CFC COMMENTS
2	05.12.23	REVISED PER TOWNSHIP ENGINEER
3	06.12.23	REVISED PER TOWNSHIP ENGINEER COMMENT
4	06.21.23	ADDED STORMWATER VOLUME CONTROL WAIVER REQUEST

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127 WEST MARKET STREET, SUITE 200 • YORK, PA 17401
t: 717.757.9414 • f: 717.840.8205 • WWW.SITEDEC.COM

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THE
POST CONSTRUCTION STORMWATER
MANAGEMENT DETAILS AND NOTES

PROPOSED AUXILIARY GWS
FOR
TRINITY HIGH SCHOOL
3601 SIMPSON FERRY ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

SCALE	AS NOTED
DRAWN BY	RMH
CHECKED BY	GAA
CONTACT	GAA
DATE	03.20.23
FILE NAME	12414 LD-1
JOB NO.	12414
SHEET NO.	C-10
REV.	4