

THE PEACE CENTER AND CEMETERY

FERGUSON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

PRELIMINARY LAND DEVELOPMENT PLAN APRIL 2021

BOARD OF SUPERVISORS

LAURA DININNI
LISA STRICKLAND
STEVE MILLER
PRASENJIT MITRA
PATRICIA STEVENS

- CHAIRWOMAN - WARD I
- VICE CHAIR
- MEMBER (AT LARGE)
- MEMBER - WARD II (AT LARGE)
- MEMBER - WARD III



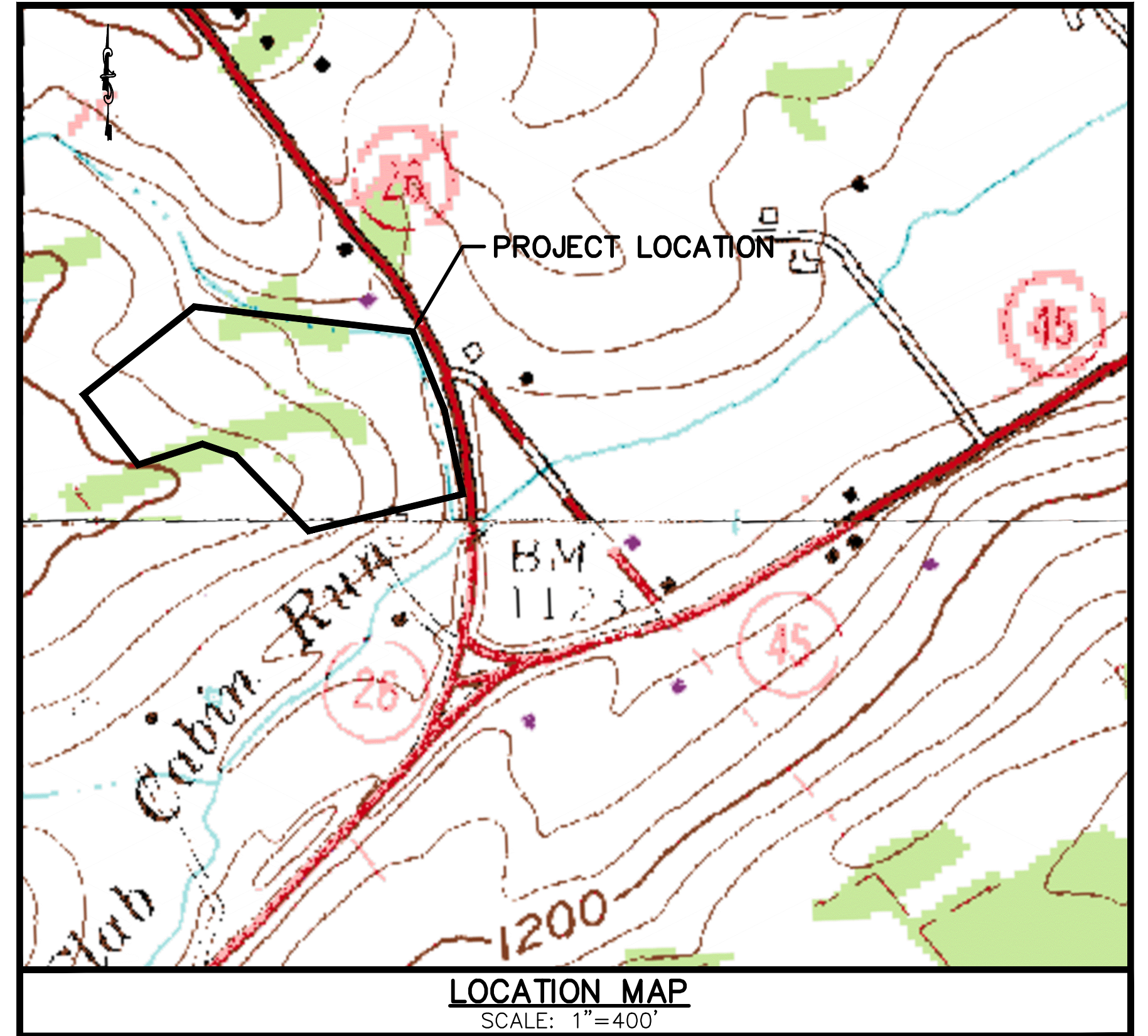
OWNER _____ DATE _____

CONTRACTOR _____ DATE _____

INDEX OF DRAWINGS	
NO.	DESCRIPTION
1	COVER SHEET
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4	RECORD PLAN
5	EXISTING CONDITIONS
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8	E&S PLAN
9	LIGHTING PLAN
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11	SITE DETAILS - 2
12	PCSM DETAILS - 1
13	UTILITY DETAILS - 1
14	E&S DETAILS
15	E&S NARRATIVE - 1
16	E&S NARRATIVE - 2
17	E&S NARRATIVE - 3

LEGEND	
EXISTING FEATURES	DESCRIPTION
---	RIGHT-OF-WAY
---	PROPERTY LINE
---	EDGE OF ROAD
---	CENTERLINE
---	CONTOURS 2'
---	EDGE OF GRAVEL
---	COUNTY, CITY, BOROUGH LINE
ST	STORMWATER PIPE W/INLET
S	SANITARY SEWER W/MANHOLE
W	WATER MAIN W/VALVE
●	UTILITY POLE
■	BUILDING
■	ROADWAY SIGN
■	CONCRETE
PROPOSED FEATURES	
W	WATER MAIN
S	SEWER MAIN

SURVEYS AND BENCHMARKS
 SURVEY DATA IS BASED ON FIELD SURVEY AND DRAWINGS PROVIDED BY AND CONDUCTED BY: PENNTERRA ENGINEERING, INC. 307 ENTERPRISE DRIVE, SUITE 100, STATE COLLEGE, PA 16801 DATED SEPTEMBER 18, 2018.

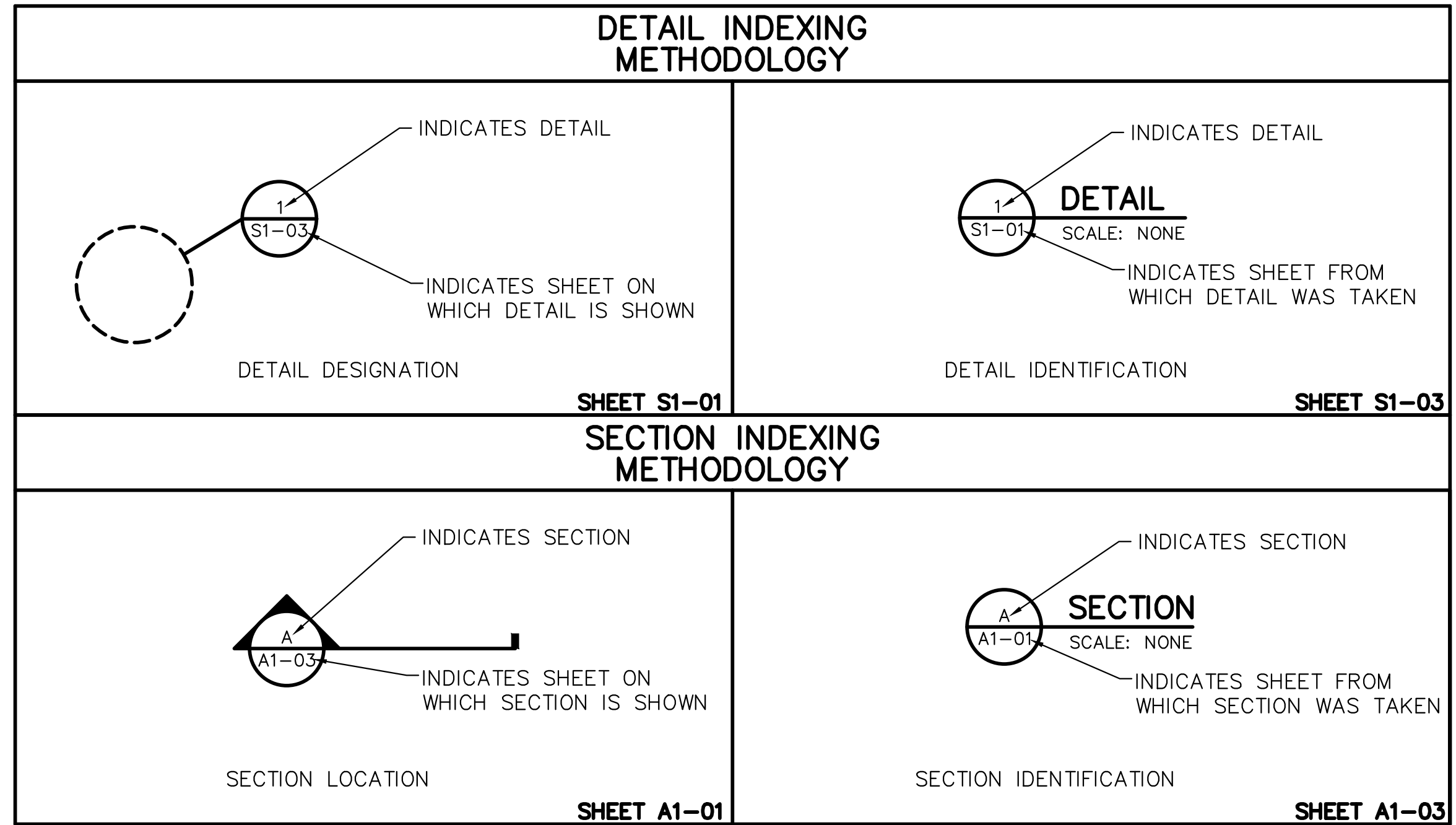


BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY

**PA UNDERGROUND UTILITY LINE PROTECTION LAW
 PA ACT 287 OF 1974 AS AMENDED**

1. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE PA. ONE CALL SYSTEM NOT LESS THAN THREE (3) DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PLACE THE CALL AND REFERENCE THE SERIAL NUMBER GIVEN, AND PROVIDE AN APPROXIMATE DATE AND TIME THAT DIGGING WILL OCCUR. THE ONE CALL SYSTEM WILL AGAIN NOTIFY THE PUBLIC UTILITIES IN THE AREA. PUBLIC UTILITIES WILL THEN COORDINATE DIRECTLY WITH THE CONTRACTOR FOR ACTUAL FIELD LOCATES.

Phone No.: 1-800-242-1776	Serial No. 20201921473
ELECTRIC: WEST PENN POWER 2800 EAST COLLEGE AVENUE STATE COLLEGE, PA. 16801	PHONE: (814) 237-5821
PHONE: VERIZON 270 WALKER DRIVE, SUITE 202 STATE COLLEGE, PA. 16801	PHONE: (814) 231-6511
CABLE: COMCAST 1155 BENNER PIKE STATE COLLEGE, PA. 16801	PHONE: (814) 238-3096
WATER: STATE COLLEGE BOROUGH WATER AUTHORITY 1201 WEST BRANCH ROAD STATE COLLEGE, PA. 16801	PHONE: (814) 238-6766
GAS: COLUMBIA GAS OF PENNSYLVANIA 2550 CAROLEAN INDUSTRIAL DR. STATE COLLEGE, PA. 16801	PHONE: (814) 238-6775
SEWAGE: UNIVERSITY AREA JOINT AUTHORITY 1576 SPRING VALLEY ROAD STATE COLLEGE, PA. 16801	PHONE: (814) 238-9662



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VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

DATE:

DESIGNED BY: DHS

CHECKED BY: PUW

DRAWN BY: DHS

04-28-21

UNI-TEC
 Consulting Engineers Inc.
 2007 Cato Avenue
 State College, PA 16801
 (814) 238-8223 www.uni-tec.com

ENGINEERS SEAL

THE PEACE CENTER AND CEMETERY

PRELIMINARY LAND DEVELOPMENT PLAN

INDEX OF DRAWINGS & LOCATION MAP

SCALE: AS NOTED

PROJECT NO. 1775003000

SHEET NO. 2

PROJECT NOTES:

1. GENERAL SITE INFORMATION:
 - A. OWNER OF RECORD: NORTH AMERICAN ISLAMIC TRUST
171 MANHASSET DRIVE
PORT MATILDA, PA 16870
TAX PARCEL: 24-004-078C
SOURCE OF TITLE: RECORD BOOK 1307, PAGE 631
PLAN BOOK 57, PAGE 143
 - B. SITE ADDRESS: 3765 WEST COLLEGE AVE.
STATE COLLEGE, PA 16801
 - C. ZONING: RA RURAL AGRICULTURAL
 - D. PRIMARY USE: CEMETERY
ACCESSORY USE: FAITH BASED PLACE OF ASSEMBLY
 - E. SEWAGE SOURCE: PRIVATE – ON–LOT
 - F. WATER SOURCE: EXISTING – PUBLIC SCBWA
 - G. ACREAGE: 9.276 ACRES (404,059 S.F.) NET AREA
10.157 ACRES (442,418 S.F.) GROSS AREA
 - H. BUILDING SETBACKS: FRONT: 50', SIDE: 30', REAR: 50'
2. BUILDING COVERAGE:

ALLOWABLE:	30% MAXIMUM
PROPOSED:	6,000 S.F. (1.5%)
3. PARKING:

PROPOSED:	30
REQUIRED:	17

CEMETERY WITH A COMMUNITY FAITH–BASED PLACE OF ASSEMBLY
1 SPACE/350 S.F. OF INDOOR GATHERING SPACE
4. IMPERVIOUS COVERAGE:

ALLOWABLE:	50%
PROPOSED:	6.9%
5. CONTOURS SHOWN ARE GENERATED FROM A FIELD TOPOGRAPHIC SURVEY BY PENNTERRA ENGINEERING INC. STATE COLLEGE, PA 16801.
6. SOIL LIMITS AND DESCRIPTIONS HAVE BEEN TAKEN FROM NRCS WEB SOIL SURVEY 3.0 OF CENTRE COUNTY DATED JANUARY 22, 2016
7. A PORTION OF THE SITE IS LOCATED IN THE FLOODPLAIN ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) MAP NUMBER 42027C0638F LAST REVISED MAY 4, 2009.
8. NO PORTION OF THE SITE IS LOCATED IN WETLANDS ACCORDING TO THE NATIONAL WETLANDS INVENTORY MAPPER DATED JANUARY 22, 2016.
9. THERE IS A RIGHT–OF–WAY AND SLOPE EASEMENT ALONG E. COLLEGE AVENUE WITH PENNDOT. FOR ADDITIONAL INFO. SEE DEED RECORDED IN THE CENTRE COUNTY BOOK 2078 PAGE 576
10. BASED ON CONVERSE CONSULTANTS PRELIMINARY GEOLOGIC INVESTIGATION REPORT DATED DECEMBER 18, 2020, NO SINKHOLES EXIST ON THE SITE.
11. A ZONING VARIANCE WAS APPLIED FOR ON JUNE 23, 2020.
12. A HIGHWAY OCCUPANCY PERMIT WAS PREVIOUSLY APPROVED FOR ACCESS ONTO E. COLLEGE AVENUE. AS REQUIRED PURSUANT TO 420 OF THE ACT OF JUNE 1 1945 (P.L. NO. 428), KNOWN AS THE "STATE HIGHWAY LAW"
13. 15. SQUARE FOOTAGE OF EACH USE IN THE BUILDING:
14. COMMUNITY FAITH–BASED PLACE OF ASSEMBLY: 6,000 S.F.
15. ALL TREES AND SHRUBS SHALL BE PLANTED IN ACCORDANCE WITH THE "GUIDE TO PLANTING IN FERGUSON TOWNSHIP"
16. FERGUSON TOWNSHIP PERSONNEL SHALL HAVE RIGHT OF ACCESS FOR THE PURPOSE OF INSPECTING AND/OR MAINTAINING THE STORMWATER MANAGEMENT FACILITIES IN ACCORDANCE WITH THE STORMWATER OPERATION AND MAINTENANCE AGREEMENT.
17. THIS PROJECT IS LOCATED WITHIN A SOURCE WATER PROTECTION AREA FOR THE STATE COLLEGE BOROUGH WATER AUTHORITY. BLASTING SHOULD BE USED AS A LAST RESORT METHOD OF ROCK EXCAVATION. IF BLASTING TECHNIQUES ARE TO BE EMPLOYED, THE CONTRACTOR SHALL PROVIDE THE TOWNSHIP AND THE STATE COLLEGE BOROUGH WATER AUTHORITY WITH INFORMATION SUPPORTING THE USE OF BLASTING TECHNIQUES ALONG WITH COPIES OF BLASTING PERMITS.

RECORDER OF DEEDS

OWNER'S CERTIFICATION

ON THIS _____ DAY OF _____, 20____,
THE UNDERSIGNED OWNER PERSONALLY APPEARED BEFORE
ME AND CERTIFIED HE WAS THE OWNER OF THE
PROPERTY SHOWN ON THIS PLAN AND ACKNOWLEDGE THE
SAME TO BE HIS ACT AND PLAN AND DESIGN, THE SAME
TO BE RECORDED AS SUCH, ACCORDING TO THE LAW.

OWNER

WITNESS MY HAND AND SEAL, THIS DATE _____

NOTARY PUBLIC

STORMWATER FACILITIES ACKNOWLEDGEMENT

I, _____ THE LANDOWNER, MY HEIRS AND
ASSIGNS, ACKNOWLEDGE THE STORMWATER MANAGEMENT
SYSTEM TO BE A PERMANENT FACILITY WHICH CAN BE
ALTERED OR REMOVED ONLY AFTER APPROVAL OF THE
REVISED PLAN BY THE FERGUSON TOWNSHIP BOARD OF
SUPERVISORS.

OWNER SIGNATURE

DATE

FERGUSON TOWNSHIP PLANNING COMMISSION

FERGUSON TOWNSHIP PLANNING COMMISSION RECOMMENDED
FOR APPROVAL/DISAPPROVAL

BY _____ CHAIRMAN _____ DATE _____

BY _____ SECRETARY _____ DATE _____

FERGUSON TOWNSHIP BOARD OF SUPERVISORS

FERGUSON TOWNSHIP BOARD OF SUPERVISORS APPROVED

BY _____ CHAIRMAN _____ DATE _____

BY _____ SECRETARY _____ DATE _____

FIRE CHIEF CERTIFICATION

I HAVE REVIEWED AND HEREBY CERTIFY THAT THE EXISTING
FACILITIES SHOWN ON THIS PLAN ARE ADEQUATE.

FIRE CHIEF

DATE

DESIGN ENGINEER CERTIFICATION

I, _____, HEREBY
CERTIFY THAT THIS LAND DEVELOPMENT PLAN MEETS
ALL DESIGN REQUIREMENTS OF THE SUBDIVISION/
LAND DEVELOPMENT ORDINANCE, ZONING ORDINANCE AND
ALL OTHER CHAPTERS OF THE FERGUSON TOWNSHIP CODE.

TOWNSHIP ENGINEER CERTIFICATION

I, _____, HAVE REVIEWED
AND HEREBY CERTIFY THAT THE PLAN MEETS ALL
ENGINEERING DESIGN STANDARDS AND CRITERIA
OF THE FERGUSON TOWNSHIP CODE OF ORDINANCES.

STORMWATER MANAGEMENT PLAN CERTIFICATION

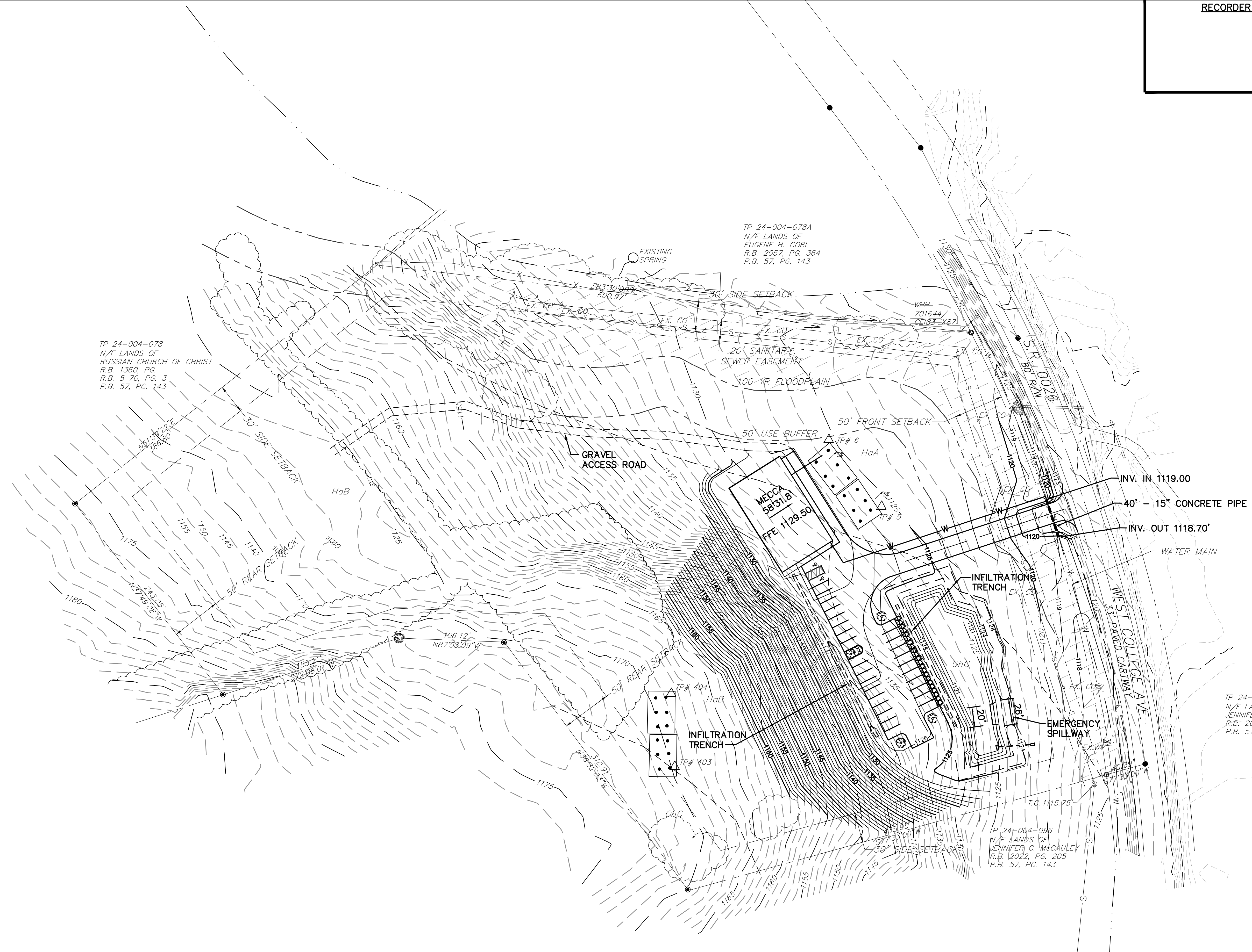
I, _____, HEREBY
CERTIFY THAT THE STORMWATER MANAGEMENT PLAN
MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE
FERGUSON TOWNSHIP STORMWATER MANAGEMENT
ORDINANCE. (CHAPTER 26)

TOWNSHIP ENGINEER STORMWATER CERTIFICATION

I, _____, HAVE REVIEWED
THIS STORMWATER MANAGEMENT PLAN IN ACCORDANCE
WITH THE DESIGN STANDARDS AND CRITERIA OF THE
FERGUSON TOWNSHIP STORMWATER MANAGEMENT
ORDINANCES. (CHAPTER 26)

<p>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.</p>	<p>DATE</p> <p>.....</p>	<p>DESIGNED BY: DHS</p> <p>CHECKED BY: PUW</p> <p>DRAWN BY: DHS</p>	<p>REV. DESCRIPTION</p> <p>.....</p> <p>.....</p>	 <p>2007 Cato Avenue State College, PA 16801 (814) 238-8223 www.uni-tec.com</p>
<p>ENGINEER'S SEAL</p>				<p>THE PEACE CENTER AND CEMETERY</p>
<p>PRELIMINARY LAND DEVELOPMENT PLAN</p>				<p>SIGNATURES AND NOTES</p>
<p>SCALE AS NOTED</p>				<p>PROJECT NO. 1775003000</p>
<p>SHEET NO. 3</p>				<p>.....</p>

I:\1775\003000\CADD\PD\XX-XX\WD\C\03.DWG



TP 24-004-078
N/F LANDS OF
RUSSIAN CHURCH OF CHRIST
R.B. 1360, PG. 3
P.B. 57, PG. 143

TP 24-004-078A
N/F LANDS OF
EUGENE H. CORL
R.B. 2057, PG. 364
P.B. 57, PG. 143

TP 24-004-096
N/F LANDS OF
JENNIFER C. McCAULEY
R.B. 2022, PG. 205
P.B. 57, PG. 143

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.

VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING.
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALE ACCORDINGLY.

DATE

REV. DESCRIPTION

DESIGNED BY:
DHS
CHECKED BY:
P.U.W.
DRAWN BY:
DHS
04-28-21

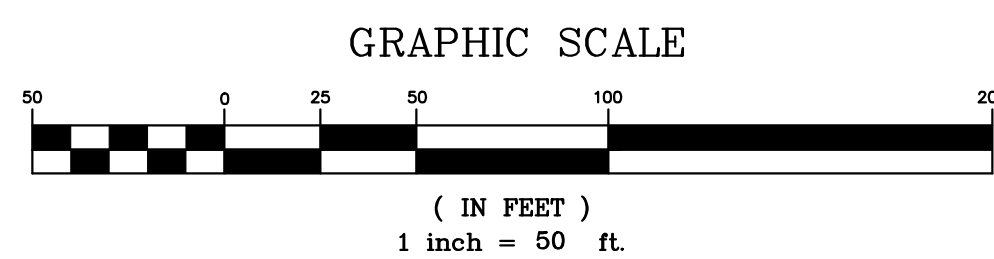
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ENGINEER'S SEAL

THE PEACE CENTER
AND CEMETERY
PRELIMINARY LAND DEVELOPMENT PLAN
RECORD PLAN

SCALE
1" = 50'
PROJECT NO.
1775003000
SHEET NO.
4

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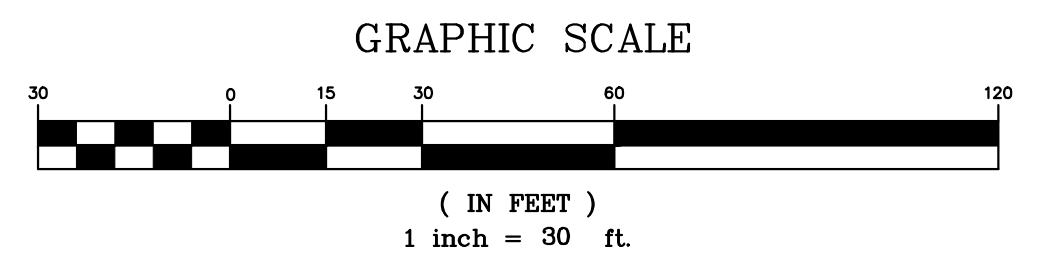
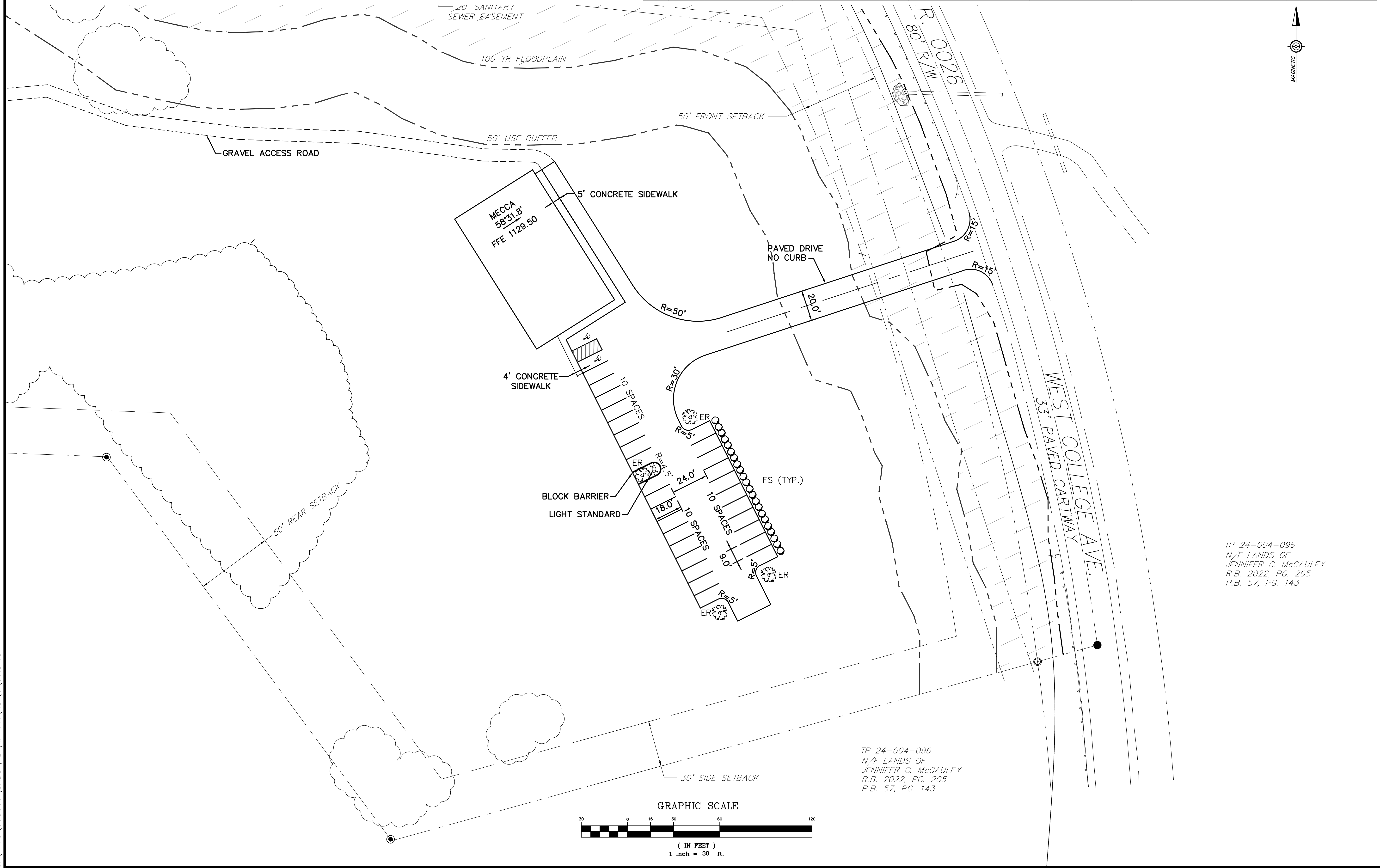


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DATE
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CHECKED BY: P.U.W
DRAWN BY: DHS
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ENGINEER'S SEAL	
THE PEACE CENTER AND CEMETERY PRELIMINARY LAND DEVELOPMENT PLAN EXISTING CONDITIONS PLAN	
SCALE 1" = 50'	
PROJECT NO. 1775003000	
SHEET NO. 5	

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LUMINAIRE SCHEDULE								
SYMBOL	QTY	LABEL	DESCRIPTION	MOUNTING CONFIGURATION	DISTRIBUTION CLASSIFICATION	LUMENS	LLF	POLE HT.
☐☐	1	PB2	DSX1 LED 40C 1000 40K T4M MVOLT XX	POLE	TYPE 4	15088	0.9	25

PROPOSED LANDSCAPING LEGEND									
KEY	SYMBOL		COMMON NAME	SCIENTIFIC NAME	MATURE HEIGHT (FT.)	SPREAD (FT.)	MAX. AT PLANTING	CALIPER SIZE (MIN.)	
ER		UNDERSTORY TREE	EASTERN REDBUD	CERCIS CANADENSIS	25	25	20 FT.	1 1/2"	
FS		SHRUB	FORSYTHIA	FORSYTHIA INTERMEDIA	8	10	20 FT.		



VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

DATE: 03-01-21

REV. DESCRIPTION: 1 PRELIM. TWP COMMENTS

DESIGNED BY: DHS

CHECKED BY: P.U.W.

DRAWN BY: DHS

04-28-21

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ENGINEERS SEAL

THE PEACE CENTER AND CEMETERY

PRELIMINARY LAND DEVELOPMENT PLAN

SITE LANDSCAPE AND LIGHTING PLAN

SCALE 1"=30'

PROJECT NO. 1775003000

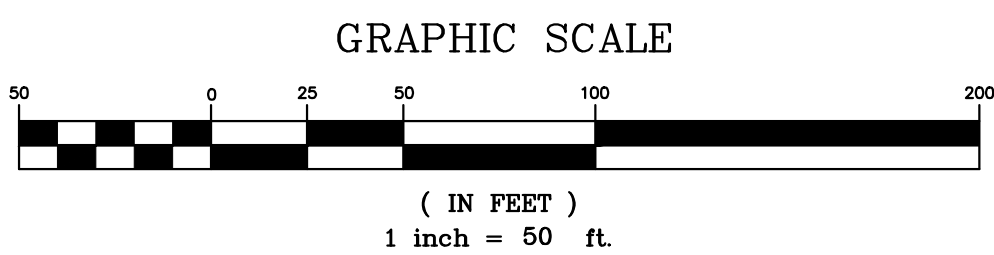
SHEET NO. 6



TP 24-004-078
N/F LANDS OF
RUSSIAN CHURCH OF CHRIST
R.B. 1360, PG. 3
P.B. 57, PG. 143

TP 24-004-078A
N/F LANDS OF
EUGENE H. CORL
R.B. 2057, PG. 364
P.B. 57, PG. 143

TP 24-004-096
N/F LANDS OF
JENNIFER C. McCAULEY
R.B. 2022, PG. 205
P.B. 57, PG. 143



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DATE

DESIGNED BY: DHS
CHECKED BY: P.J.W.
DRAWN BY: DHS
04-28-21

REV. DESCRIPTION

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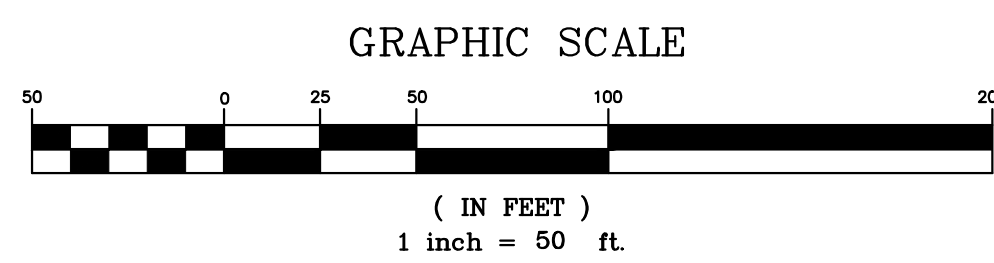
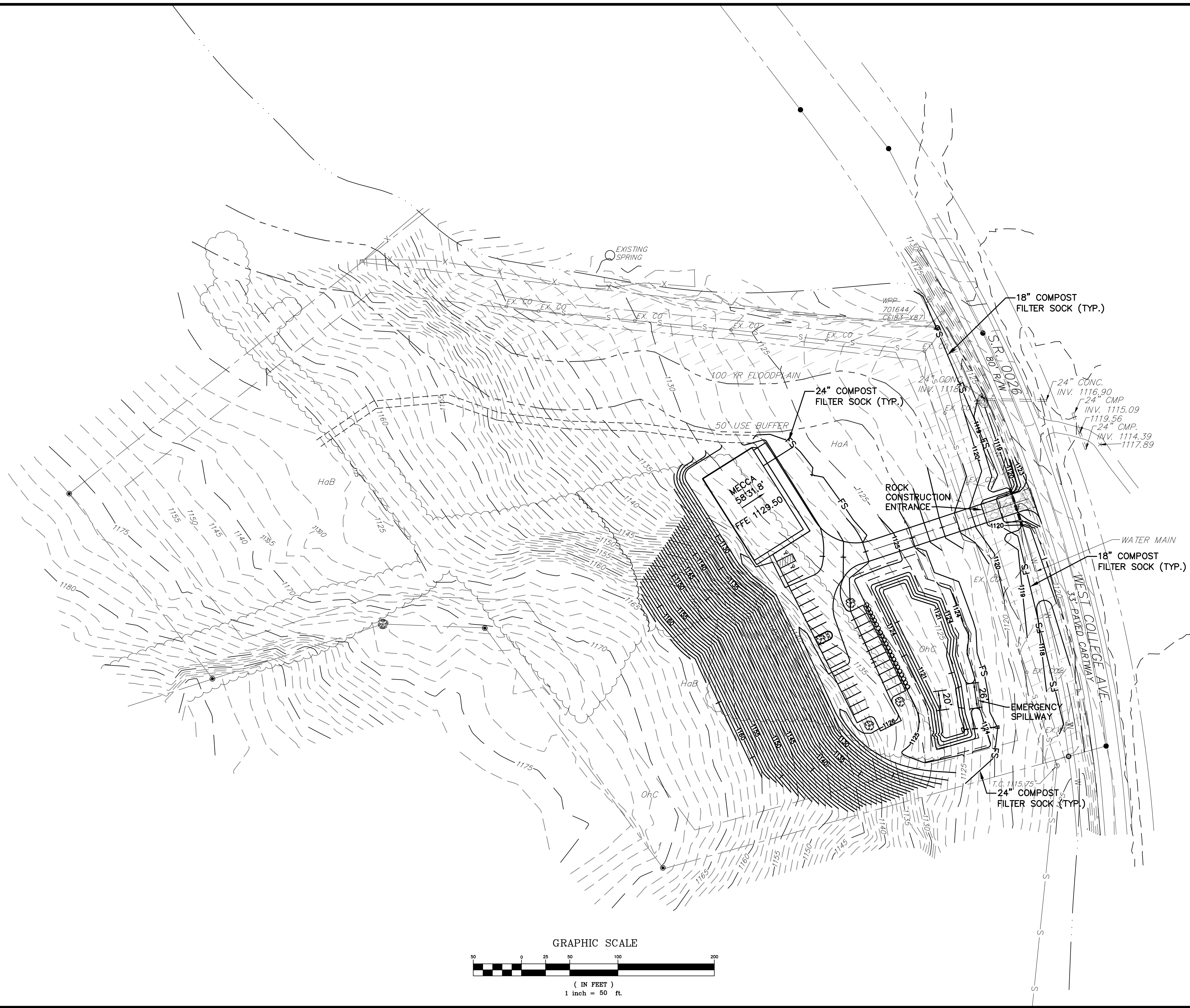
ENGINEER'S SEAL

THE PEACE CENTER AND CEMETERY
PRELIMINARY LAND DEVELOPMENT PLAN
GRADING PLAN

SCALE 1"=50'
PROJECT NO. 1775003000
SHEET NO. 7

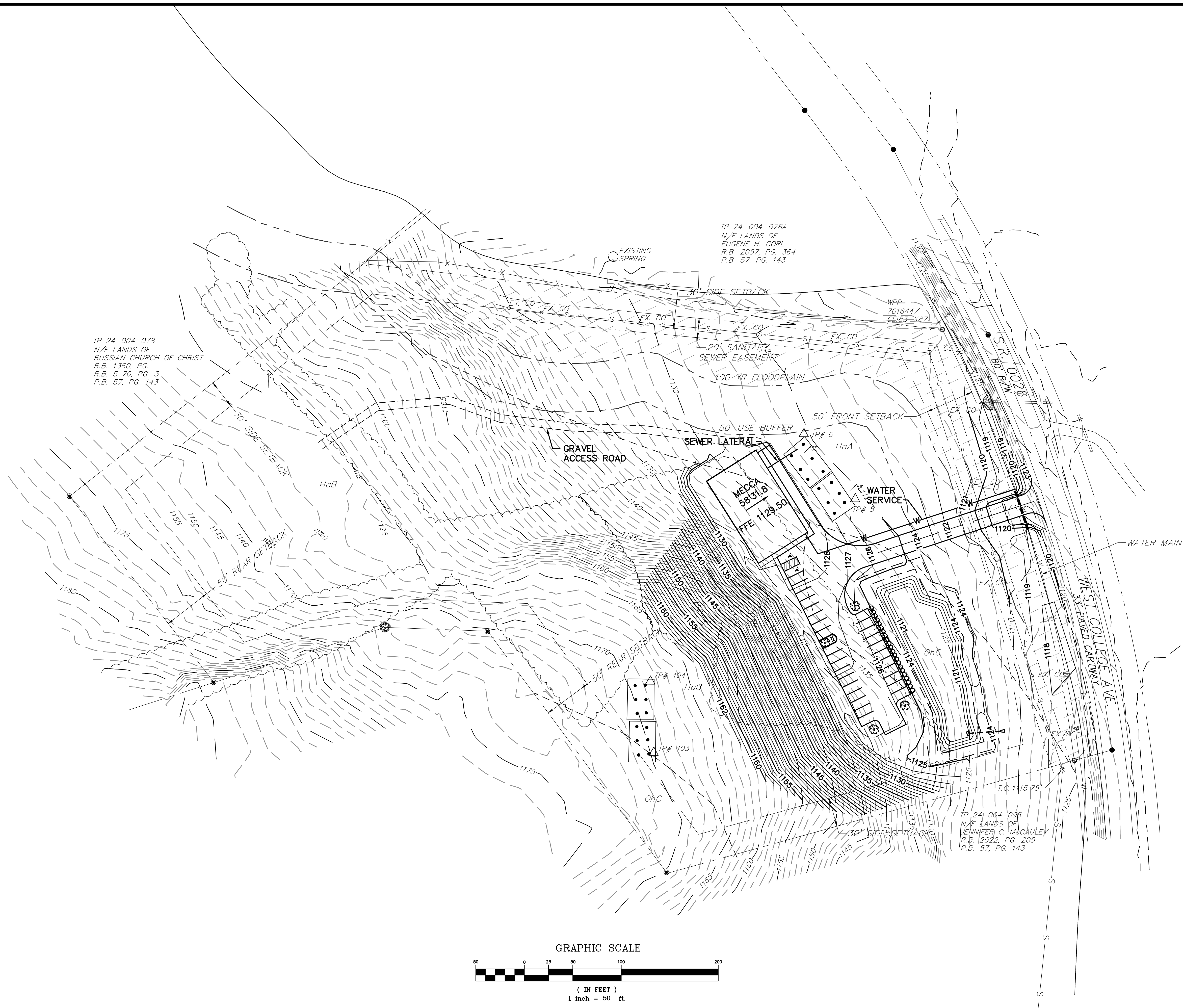
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VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.	
DATE
DESIGNED BY:	DHS
CHECKED BY:	PJW
DRAWN BY:	DHS
	04-28-21
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ENGINEER'S SEAL	
THE PEACE CENTER AND CEMETERY PRELIMINARY/FINAL LAND DEVELOPMENT PLAN EROSION & SEDIMENT CONTROL PLAN	
SCALE	1" = 50'
PROJECT NO.	1775003000
SHEET NO.	8

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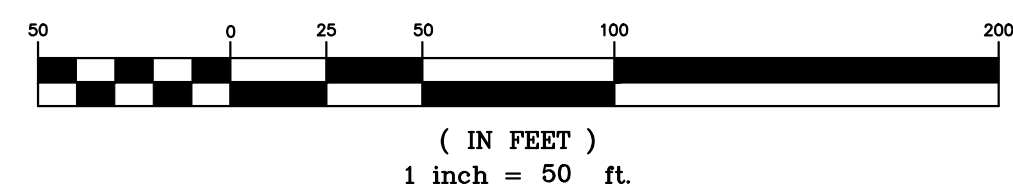


TP 24-004-078
N/F LANDS OF
RUSSIAN CHURCH OF CHRIST
R.B. 1360, PG. 3
P.B. 57, PG. 143

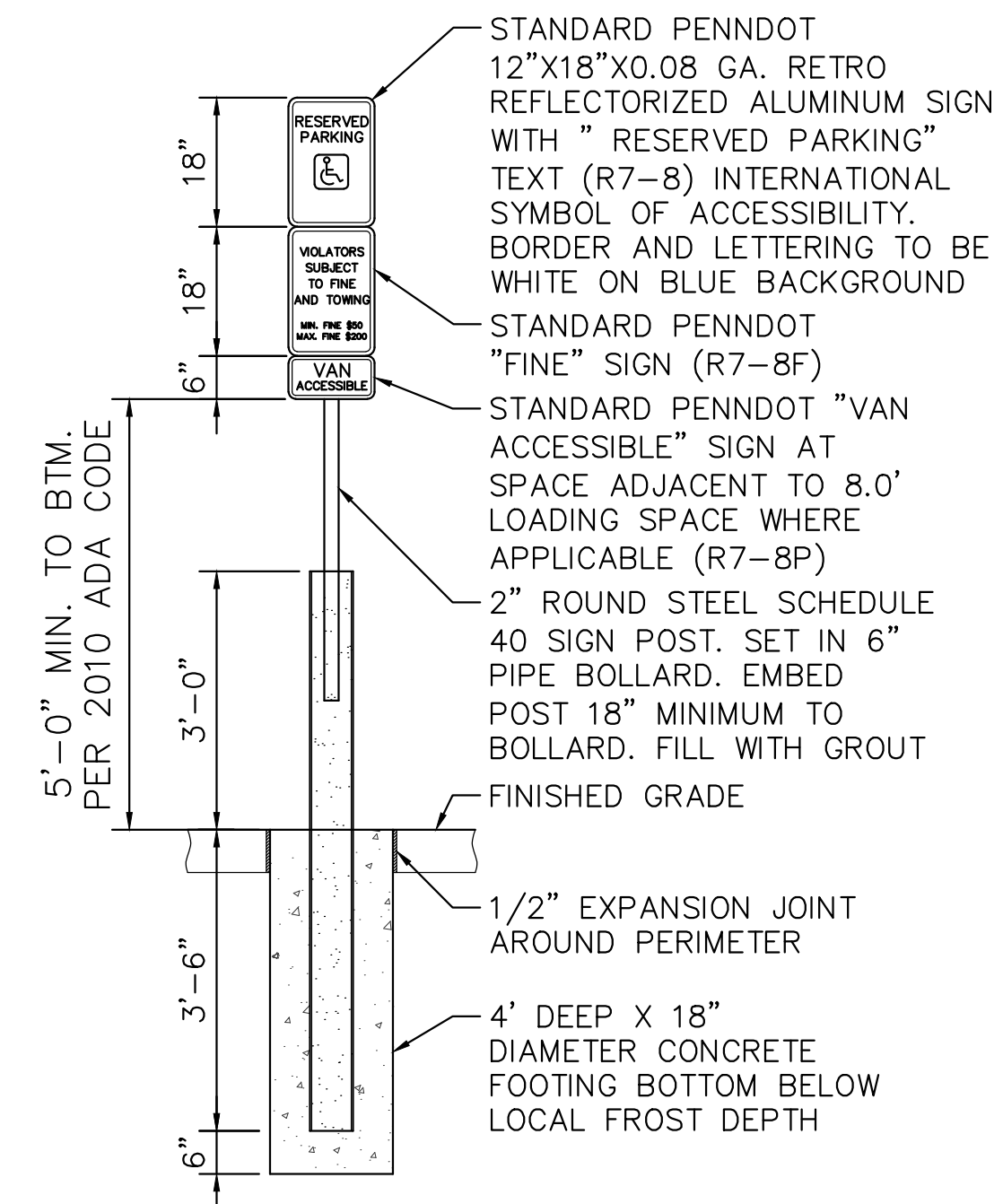
TP 24-004-078A
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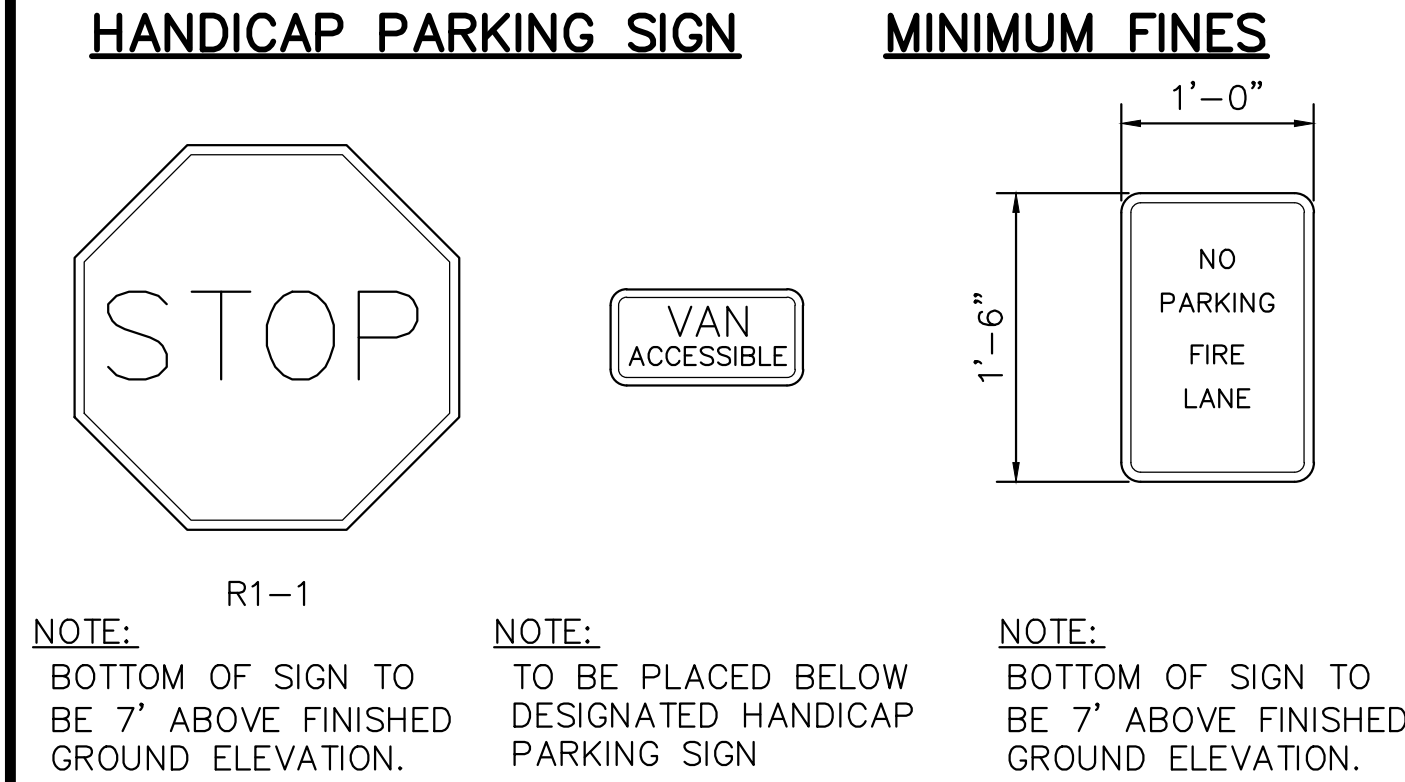
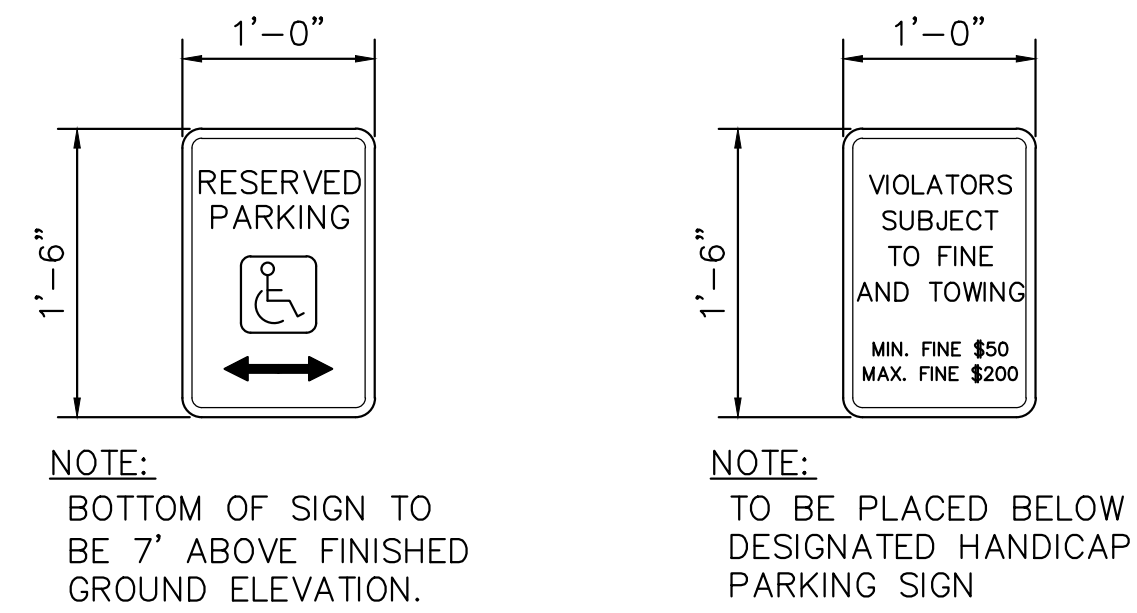
GRAPHIC SCALE



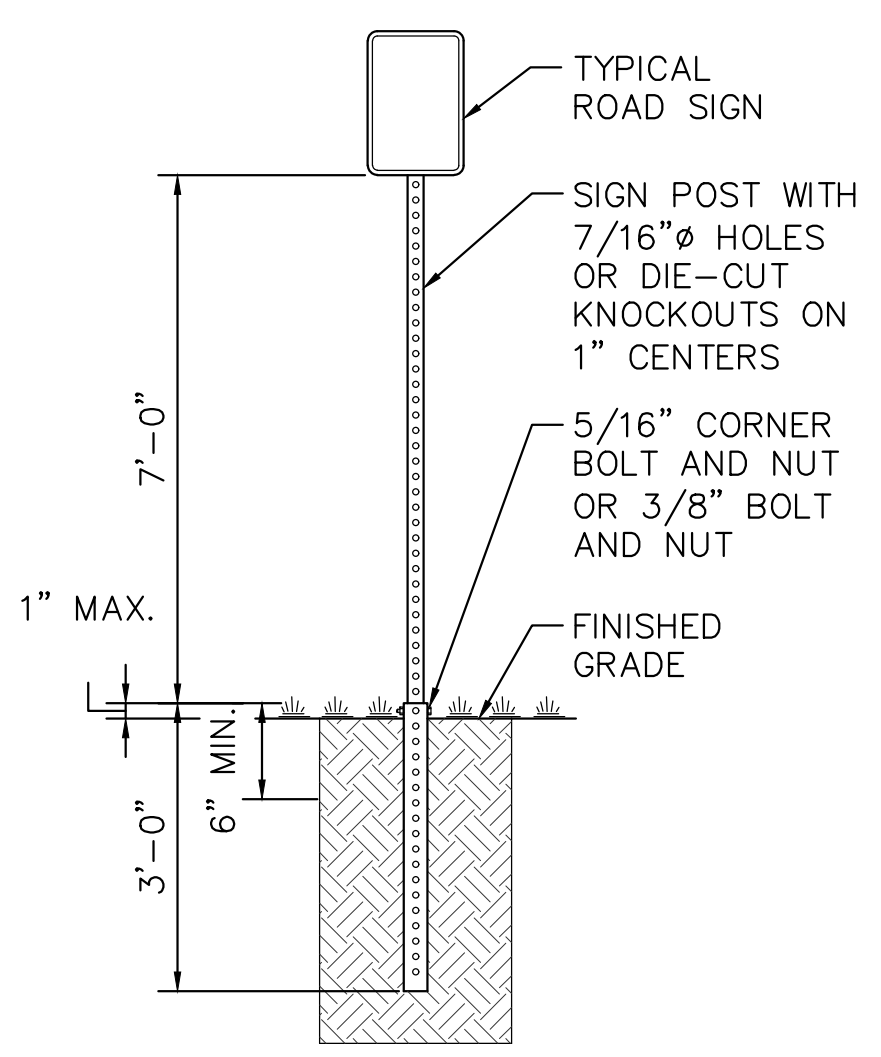
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DATE
DESIGNED BY:
DHS
CHECKED BY:
PJW
DRAWN BY:
DHS
04-28-21
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ENGINEER'S SEAL	
<p>THE PEACE CENTER AND CEMETERY</p> <p>PRELIMINARY LAND DEVELOPMENT PLAN</p> <p>UTILITY PLAN</p>	
<p>SCALE 1" = 50'</p> <p>PROJECT NO. 1775003000</p> <p>SHEET NO. 9</p>	



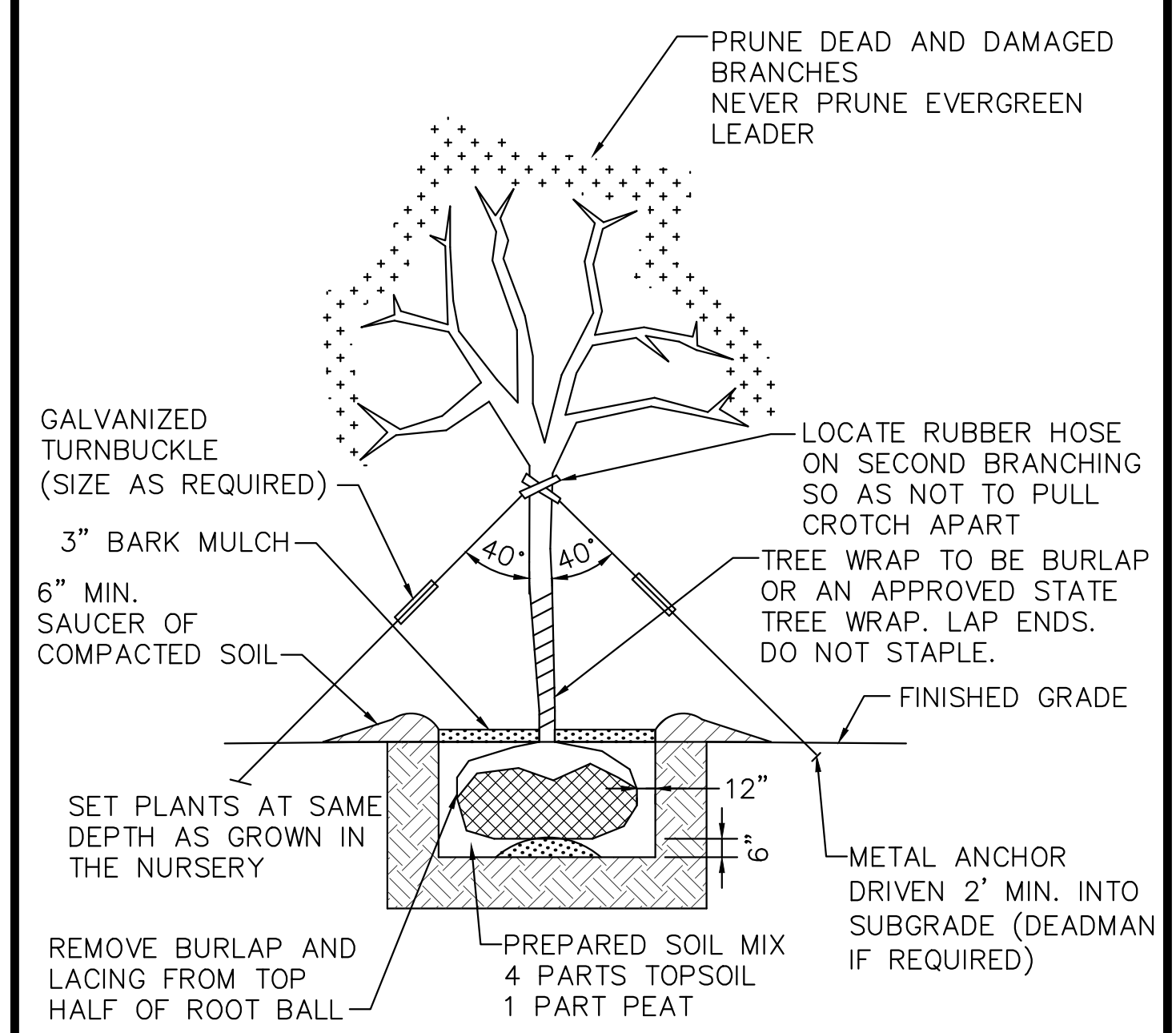
- NOTE:**
- HANDICAPPED PARKING SIGN SHALL CONFORM WITH STATE AND LOCAL CODE REGULATIONS.



- STOP SIGN** **VAN ACCESSIBLE** **FIRE LANE SIGN**

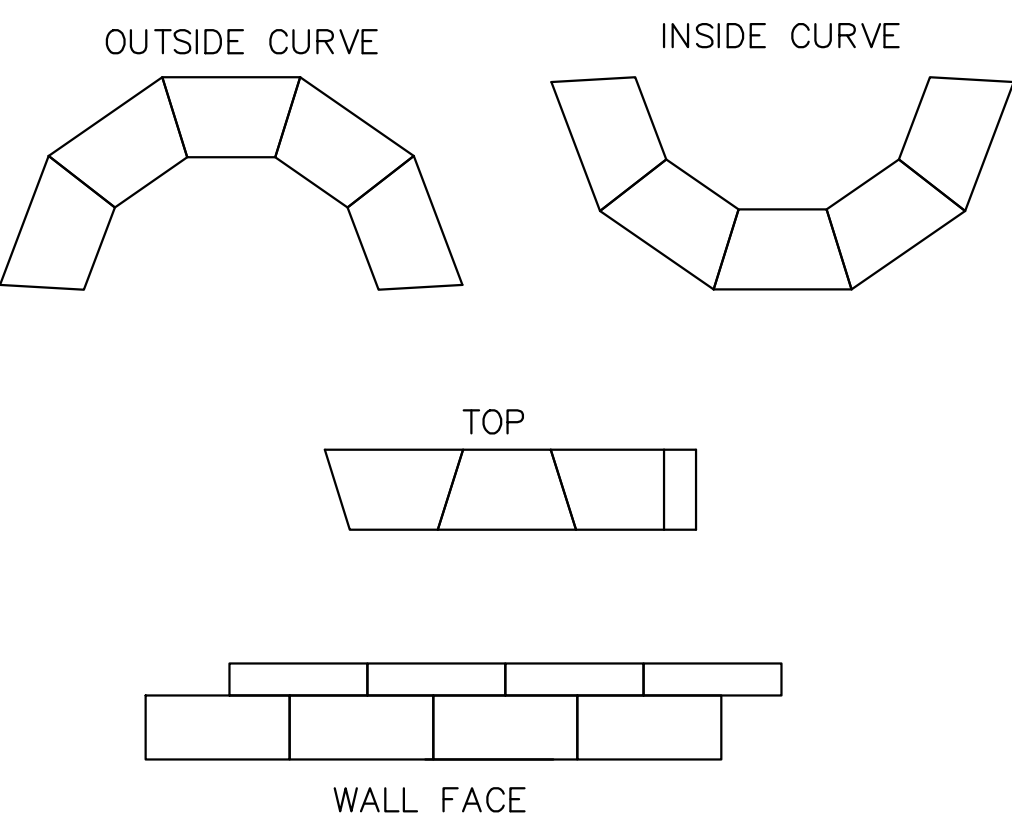
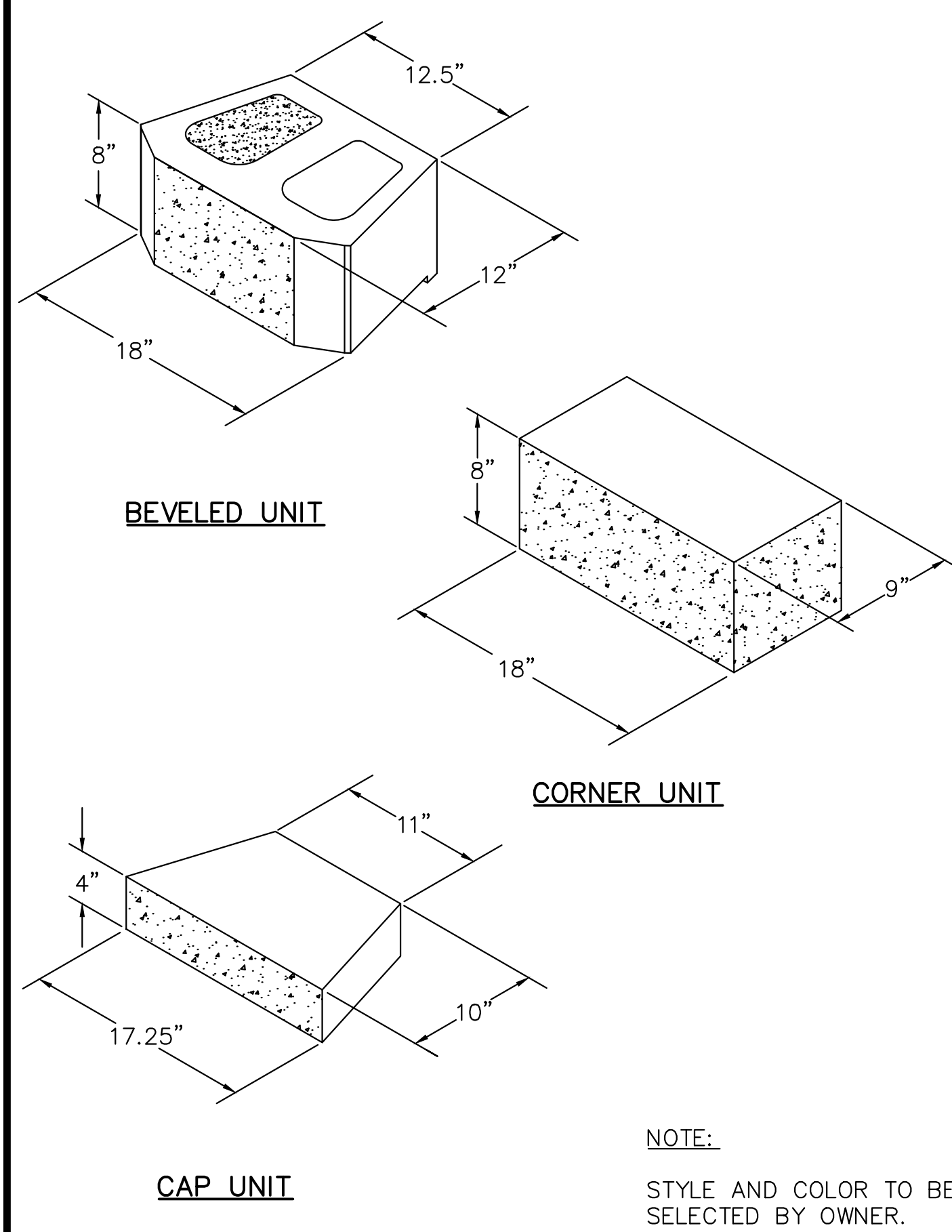
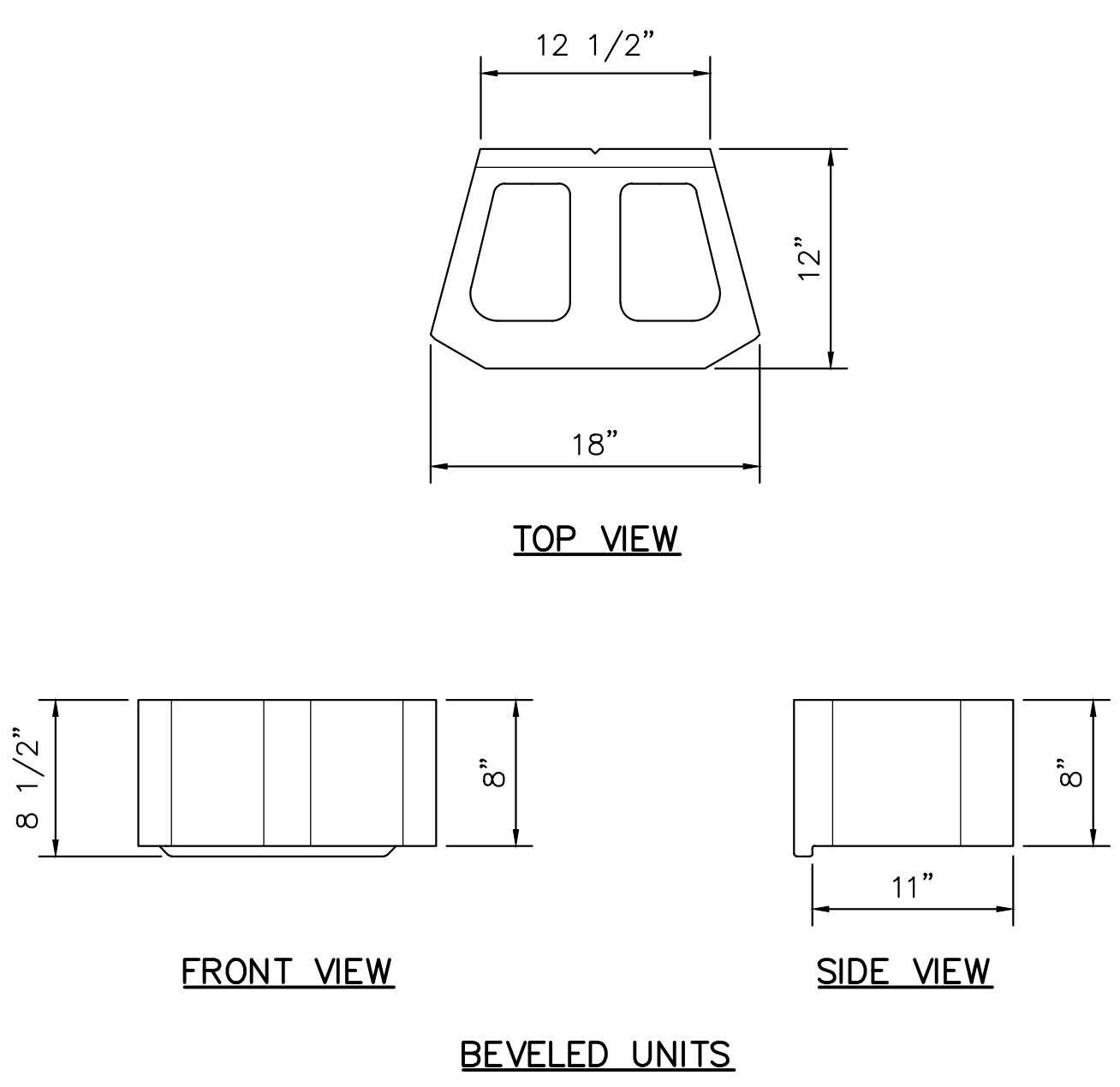


- NOTES:**
- MOUNT SIGN AT RIGHT ANGLE TO DIRECTION OF TRAFFIC.
 - SIGN POST DISTANCES SHALL BE MIN. 4" FROM CURB UNLESS PLACEMENT IS SPECIFICALLY INDICATED BY MUNICIPAL ENGINEER OR STAFF.
 - MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH PUB. 408.
 - SIGN POSTS AND SPLICE SLEEVES SHALL HAVE 7/16" DIAMETER HOLES OR DIE-CUT KNOCKOUTS ON ALL FOUR SIDES. ANCHOR POSTS SHALL HAVE 7/16" DIAMETER HOLES ON 1" CENTERS ON ALL FOUR SIDES.
 - BOLTS AND NUTS SHALL BE ASTM A 307, GRADE B.
 - DRIVE RIVETS MAY BE USED TO FASTEN SIGN BLANKS TO THE SIGN POST.
 - REFER TO PENNDOT TYPE B (TC-8702B)



- NOTES:**
- IN PAVED AREAS— STONE SAUCER IN A SQUARE.
 - IN GRASS AREAS— MULCH SAUCER IN A CIRCLE.
 - AFTER PLANTING — THE SAUCER SHOULD BE FLOODED WITH WATER TWICE IN THE FIRST 24 HRS.

ACCESSIBILITY SIGN POST 1 SIGN DETAILS 2 TYPICAL TYPE B SIGN POST 3 TYPICAL TREE PLANTING 4



- NOTES:**
- ALWAYS START CAPPING WALL FROM THE LOWEST ELEVATION.
 - LAY OUT CAPS PRIOR TO USING ADHESIVE.
 - CUT CAPS TO FIT. VARIOUS COMBINATIONS OF LONG AND SHORT CAP FACES WILL BE NECESSARY FOR RADII GREATER THAN THE MINIMUM.
 - ALTERNATE SHORT AND LONG CAP FACES EVERY OTHER CAP TO ACHIEVE A STRAIGHT ROW OF CAPS.
 - USE EXTERIOR-GRADE CONSTRUCTION ADHESIVE TO SECURE CAPS.

INDIVIDUAL BLOCK VIEWS 5 ISOMETRIC BLOCK DETAILS 6 CAP BLOCK DETAILS 7

VERIFY SCALES
BASE IS ONE INCH ON ORIGINAL DRAWING

DATE

REV. DESCRIPTION

DESIGNED BY: JLB
CHECKED BY: PJW
DRAWN BY: DHS
104-28-21

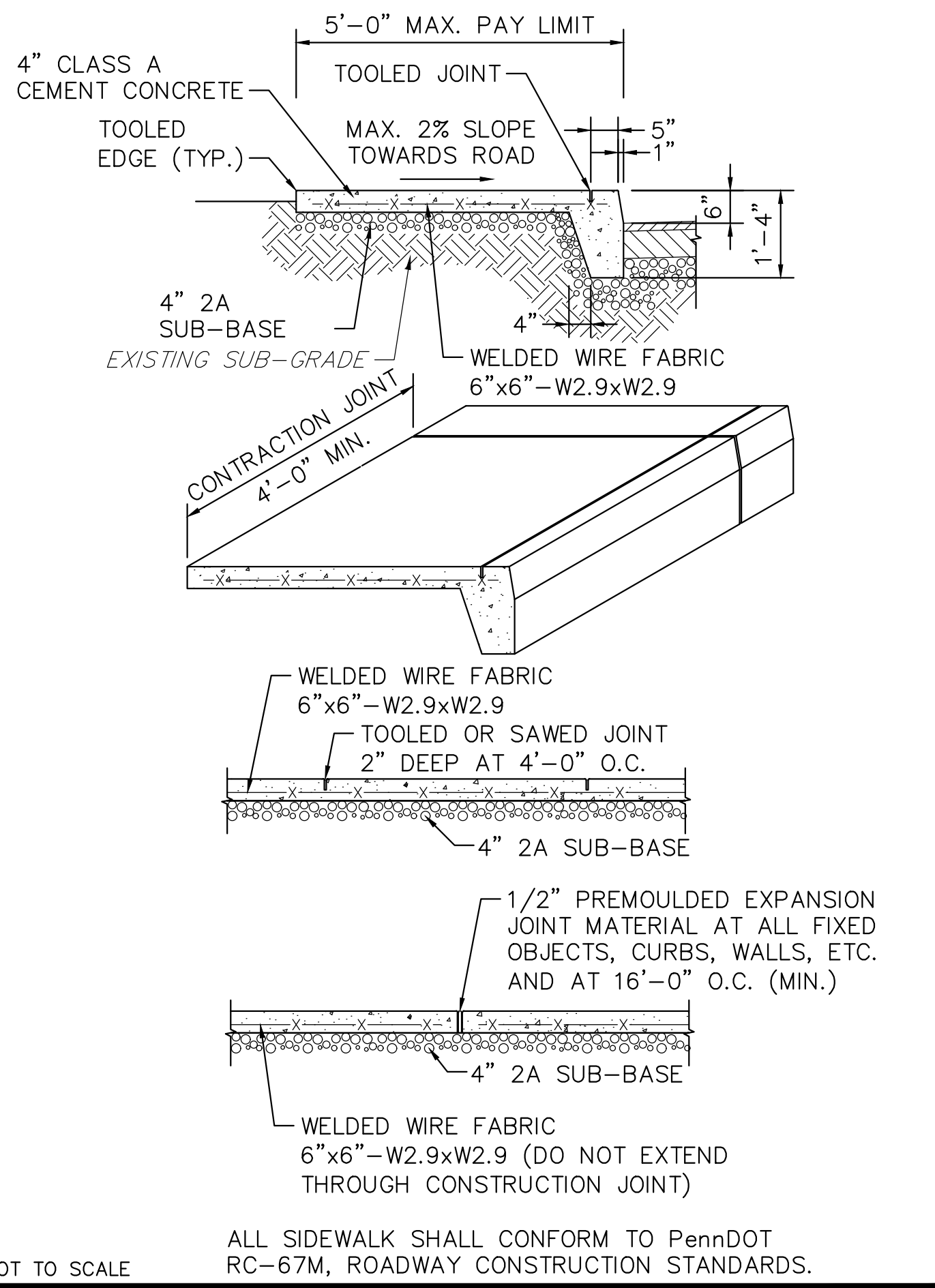
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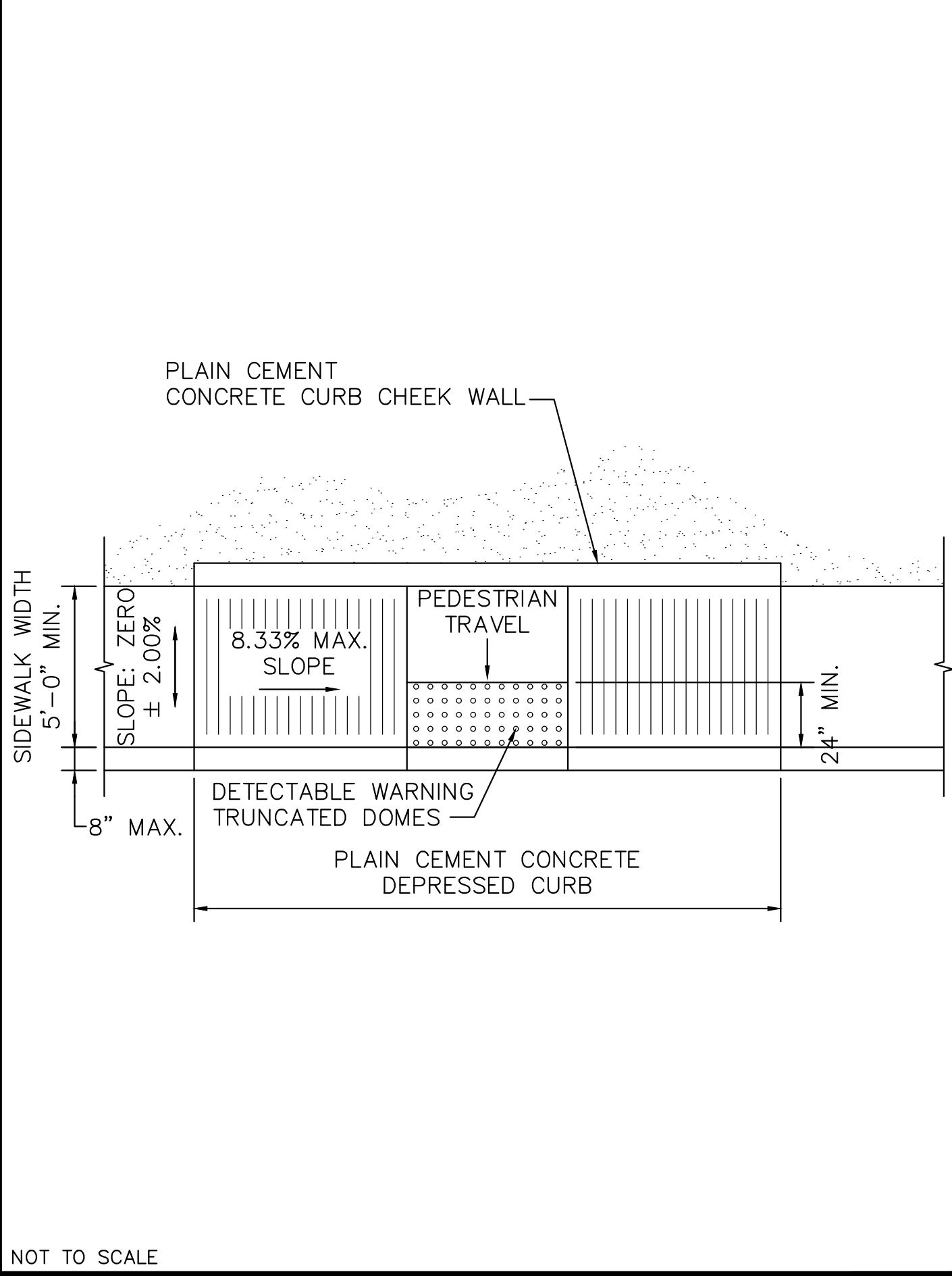
THE PEACE CENTER AND CEMETERY
PRELIMINARY LAND DEVELOPMENT PLAN
SITE DETAILS - 1

SCALE AS NOTED
PROJECT NO. 1775003000
SHEET NO. 10

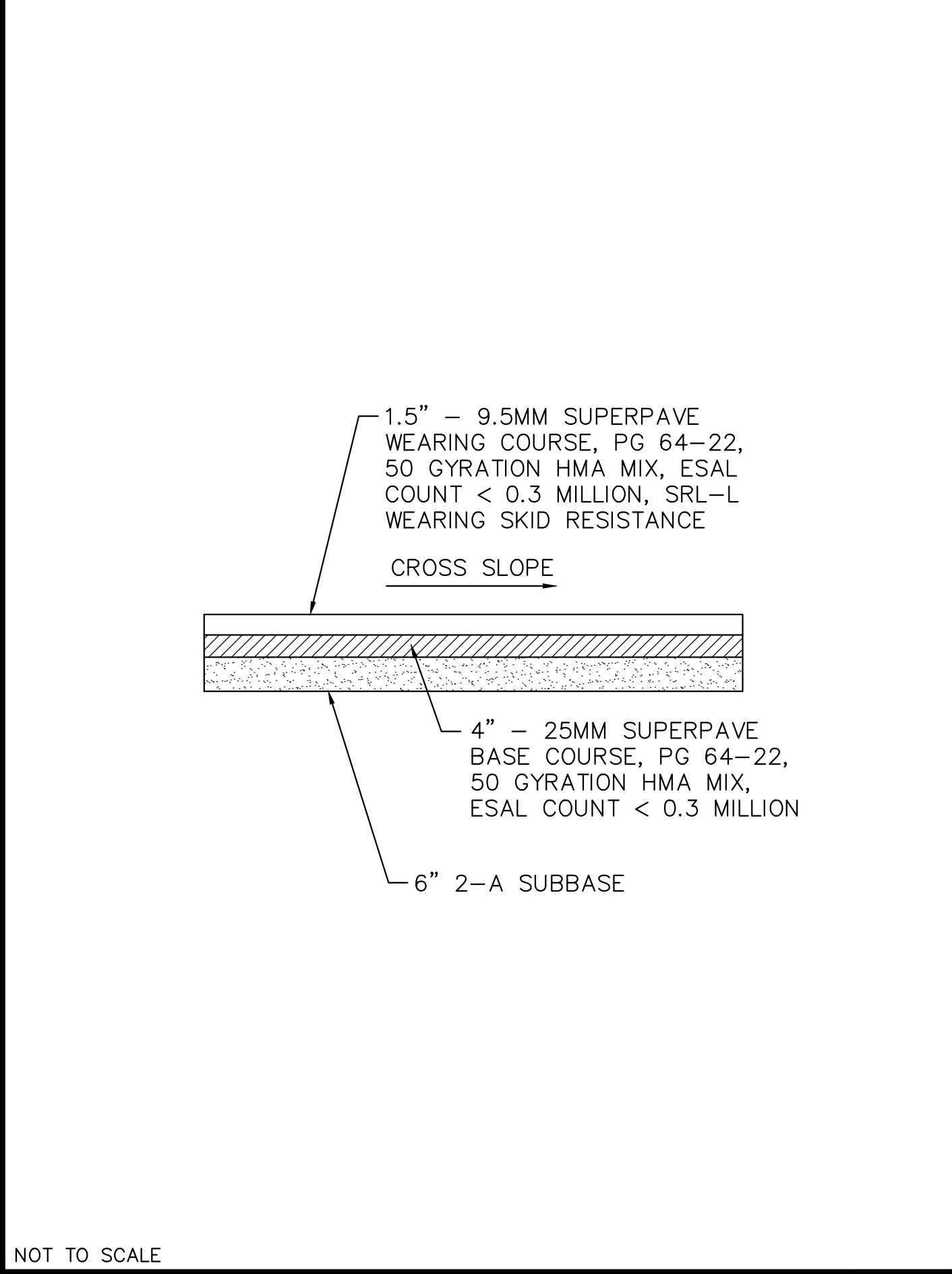
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CEMENT CONCRETE CURB AND SIDEWALK 1



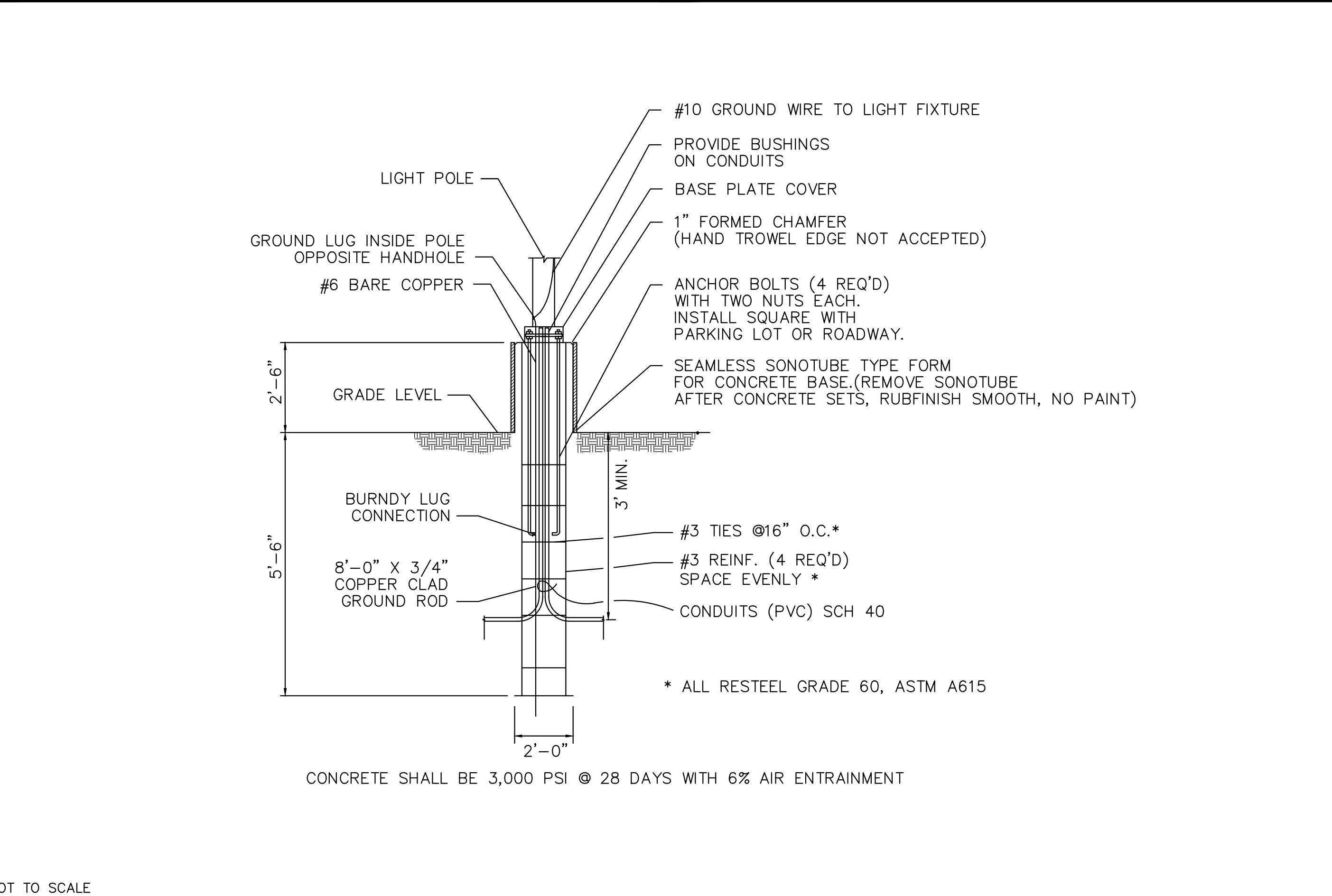
TYPE 2 CURB RAMP 2



PARKING LOT SECTION 3



4



POLE BASE DETAIL 5



6



7

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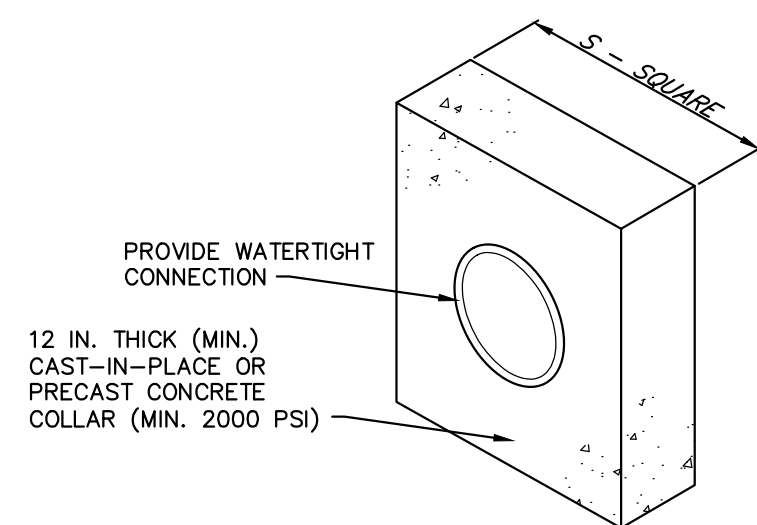
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PRELIMINARY LAND DEVELOPMENT PLAN
SITE DETAILS - 2

SCALE AS NOTED
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SHEET NO. 11

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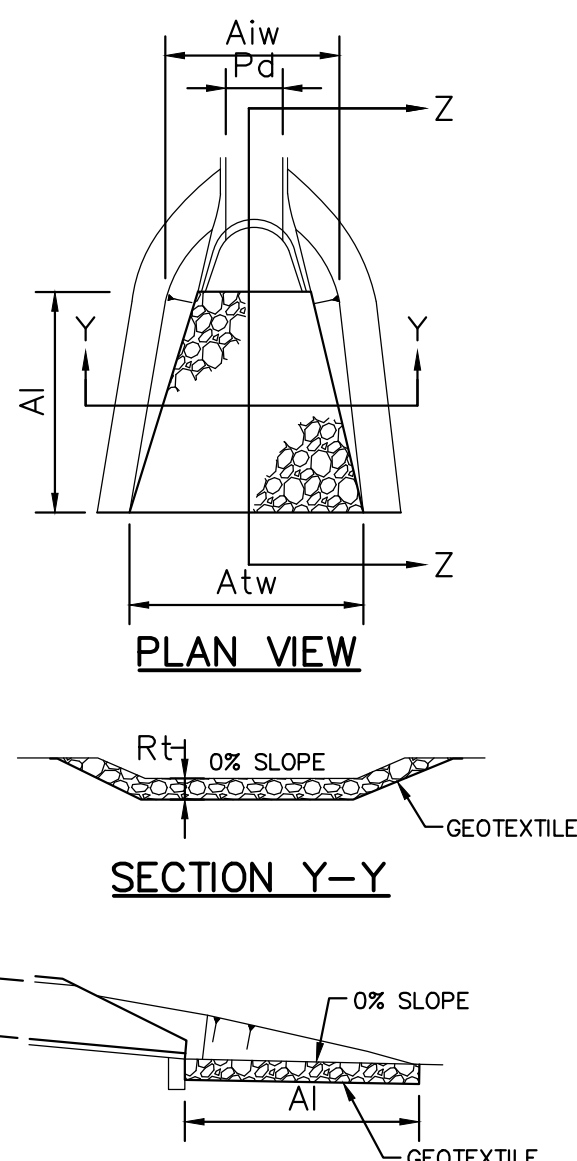
BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS	RISER TO FIRST COLLAR (FT)	COLLAR SPACING (FT)
1	15	88	2	88	88

- NOTES:
- ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.
 - COLLAR SIZE AND SPACING SHALL BE AS INDICATED WITHIN TABLE.

SCALE: NONE

CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS OR TRAPS

1



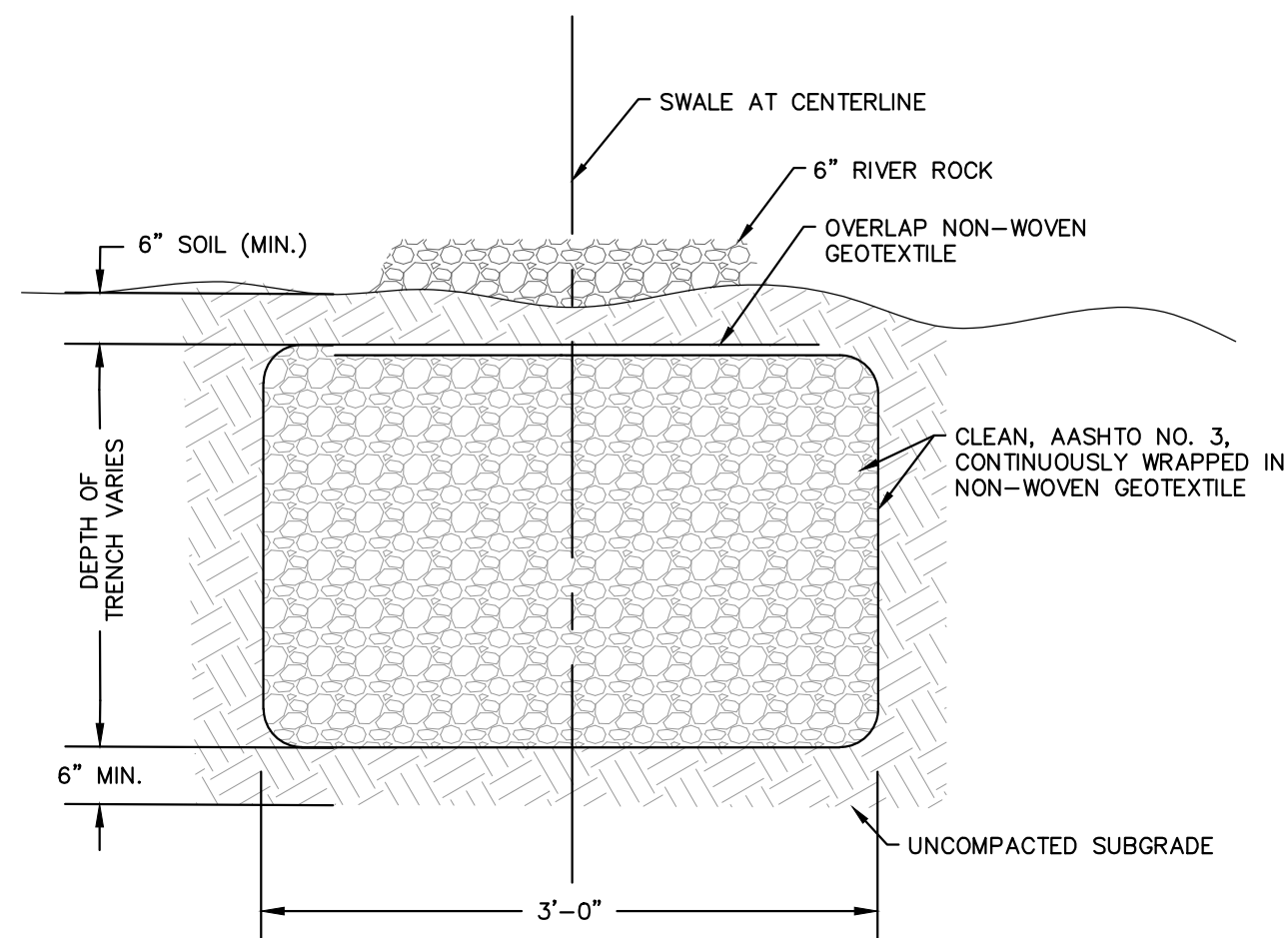
OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP			APRON	
		SIZE R-	THICK. Rt (IN)	LENGTH At (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
1	15	6	12	88	88	88

- NOTES:
- ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
 - ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

SCALE: NONE

RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL

2



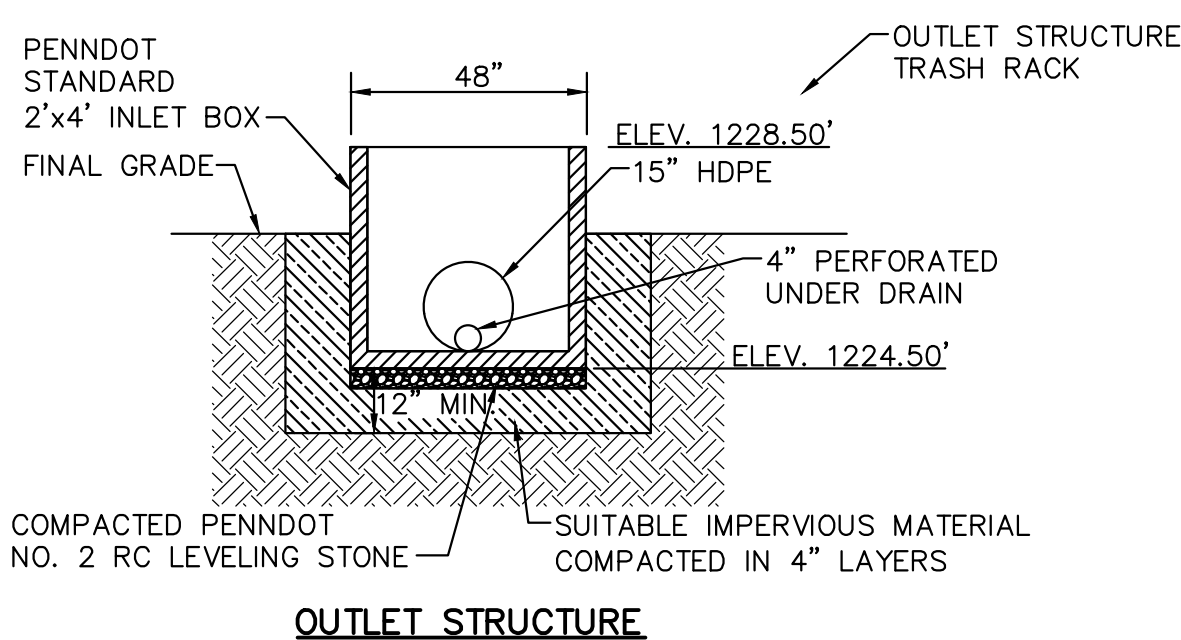
- NOTES:
- PROTECT INFILTRATION TRENCH AREA FROM COMPACTION PRIOR TO INSTALLATION.
 - IF POSSIBLE, INSTALL INFILTRATION TRENCH DURING LATER PHASES OF SITE CONSTRUCTION TO PREVENT SEDIMENTATION AND/OR DAMAGE FROM CONSTRUCTION ACTIVITY.
 - INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
 - EXCAVATE INFILTRATION TRENCH BOTTOM TO A UNIFORM, LEVEL, UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT COMPACT SUBGRADE.
 - PLACE NON-WOVEN GEOTEXTILE ALONG BOTTOM AND SIDES OF TRENCH. NON-WOVEN GEOTEXTILE ROLLS SHOULD OVERLAP BY A MINIMUM OF 16-INCHES WITHIN THE TRENCH. FOLD BACK AND SECURE EXCESS GEOTEXTILE DURING STONE PLACEMENT.
 - PLACE UNIFORMLY GRADED, CLEAN-WASHED AASHTO NO. 3 AGGREGATE IN 8-INCH LIFTS, LIGHTLY COMPACTING BETWEEN LIFTS.
 - FOLD AND SECURE NON-WOVEN GEOTEXTILE OVER INFILTRATION TRENCH, WITH MINIMUM OVERLAP OF 16-INCHES.
 - PLACE 6-INCH LIFT OF APPROVED TOPSOIL OVER INFILTRATION TRENCH, AS INDICATED ON PLANS.
 - SEED AND STABILIZE TOPSOIL.
 - DO NOT REMOVE EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

SCALE: NONE

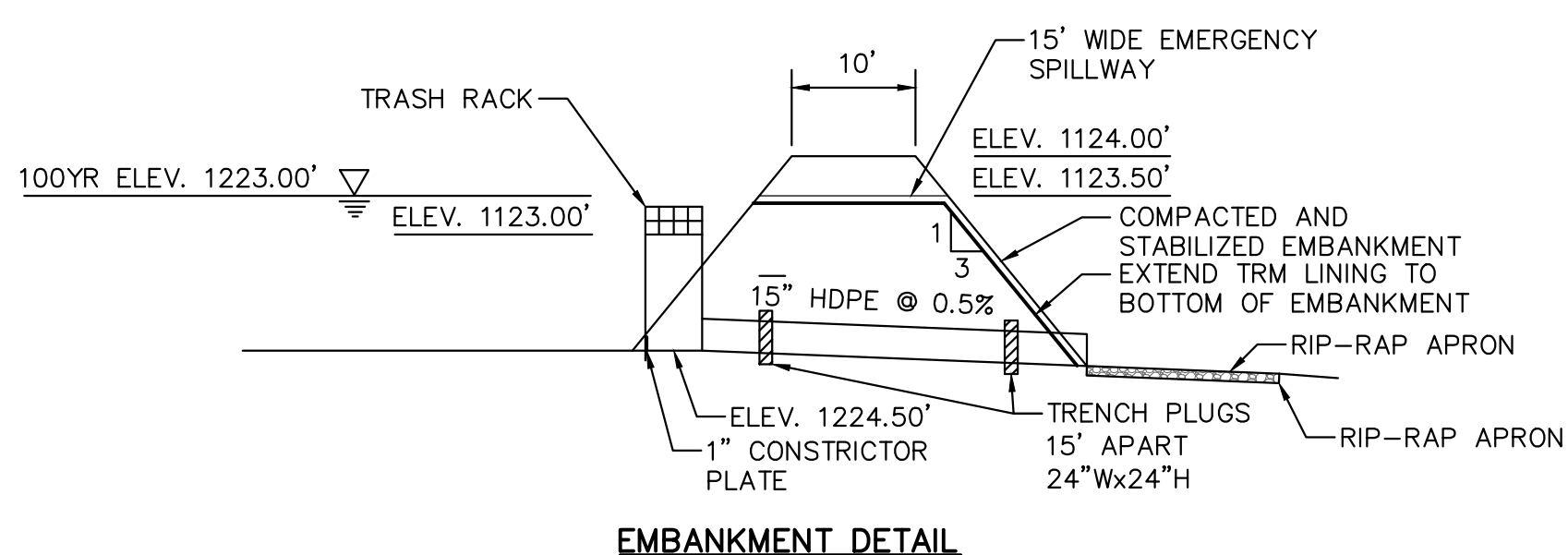
INFILTRATION TRENCH

3

SCALE: NONE



OUTLET STRUCTURE



EMBANKMENT DETAIL

SCALE: NONE

PROPOSED BASIN DETAIL

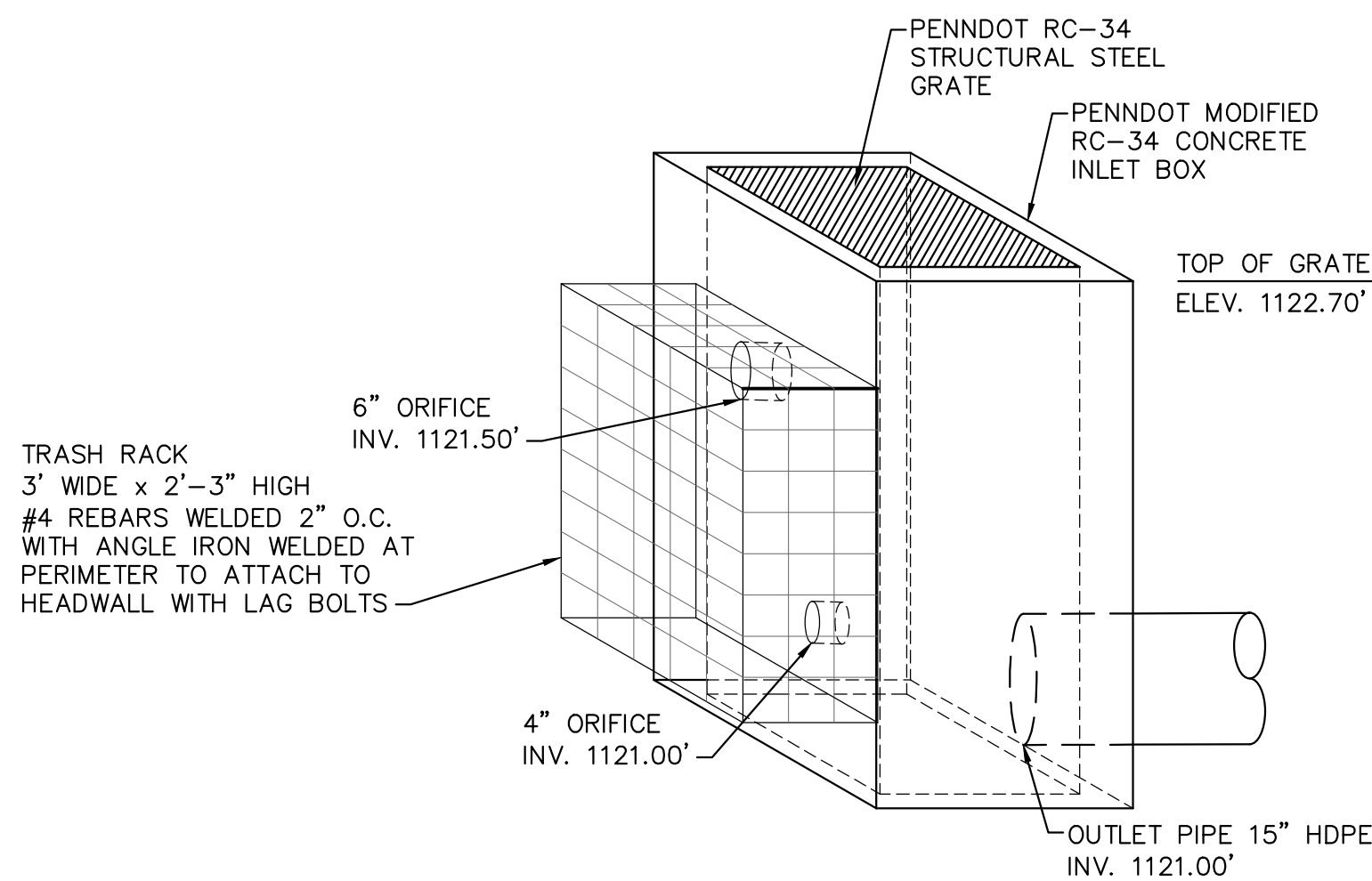
5

SCALE: NONE

OUTLET DETAIL

6

SCALE: NONE



SCALE: NONE

SCALE: NONE

THE PEACE CENTER AND CEMETERY
PRELIMINARY LAND DEVELOPMENT PLAN
PCSM DETAILS - 1

SCALE AS NOTED
PROJECT NO. 1775003000
SHEET NO. 12

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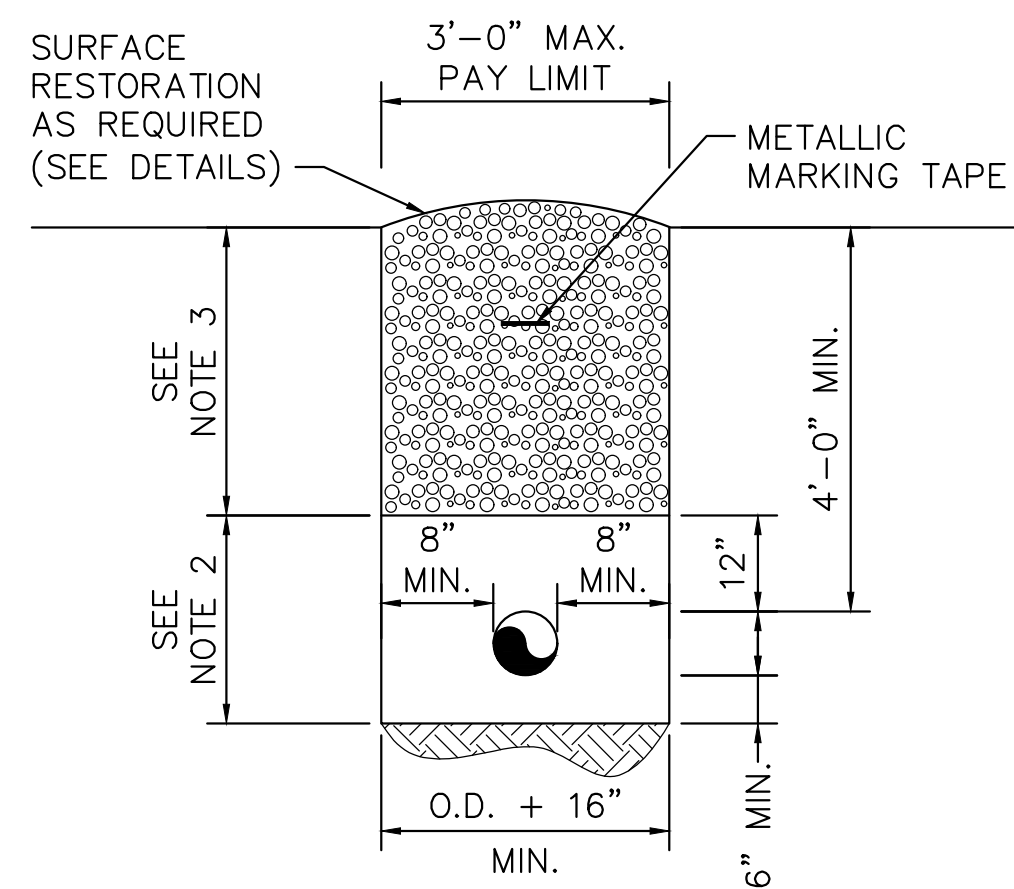
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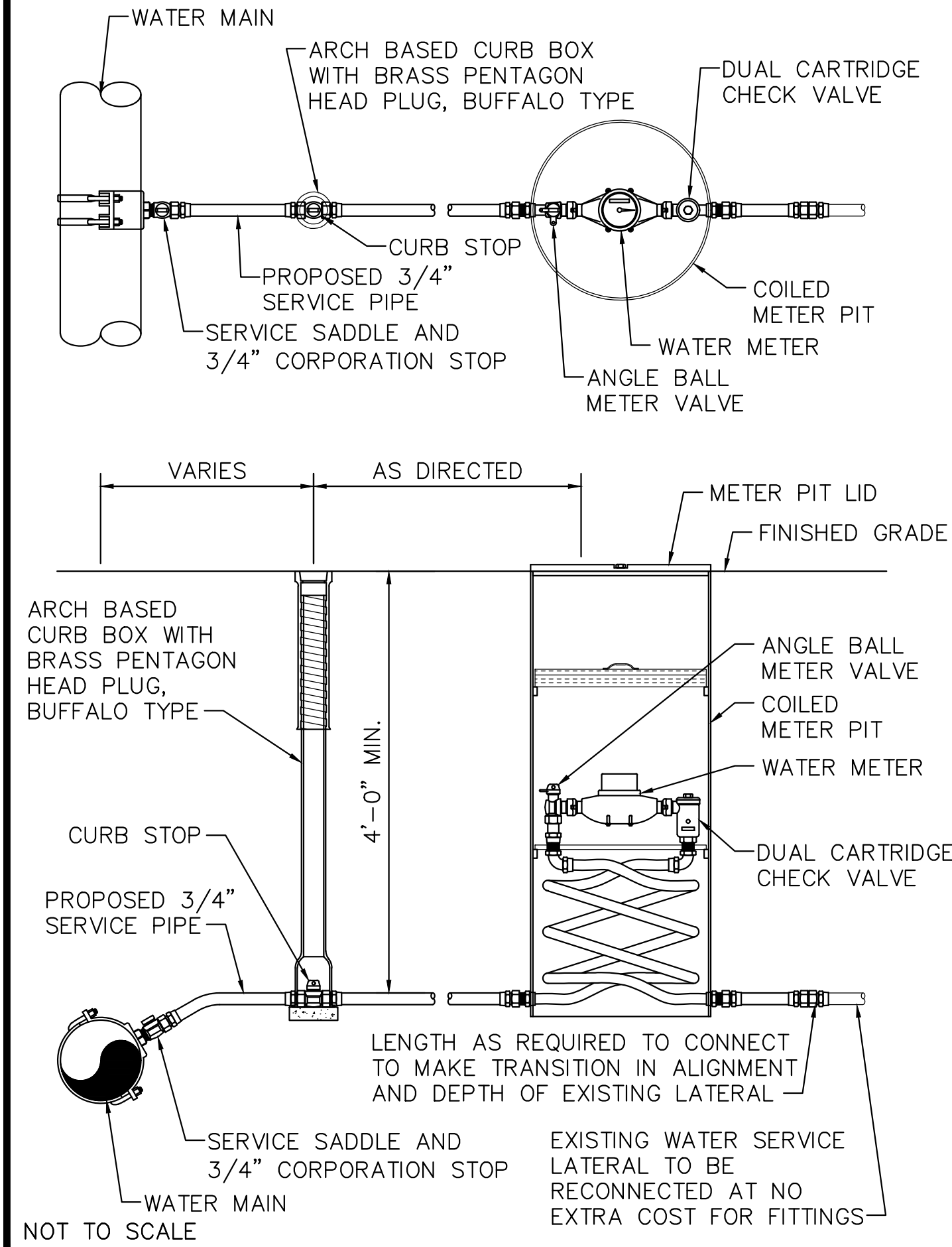


NOTES

1. PLACE BEDDING AND BACKFILL IN CONTINUOUS LAYERS NOT EXCEEDING 8 INCHES AND COMPACT TO 100% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. COMPACT ENTIRE DEPTH OF THE TRENCH.
2. PROVIDE PIPE BEDDING OF PENNDOT 2A STONE, UNLESS DIRECTED OTHERWISE BY ENGINEER.
3. EXCAVATED NATIVE MATERIAL MAY BE USED FOR BACKFILL WHEN APPROVED BY ENGINEER, OTHERWISE BACKFILL WITH PENNDOT 2A STONE.
4. USE CONCRETE CRADLE OR CONCRETE ENCASUREMENT WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY ENGINEER. PROVIDE CLASS C CONCRETE.
5. PROVIDE STEEL CASING FOR PIPE UNDER PENNDOT ROADWAYS AND WHEN REQUIRED BY ENGINEER. SEE STEEL CASING INSTALLATION DETAIL.
6. USE TYPE A BEDDING AND BACKFILL WHERE APPROVED BY ENGINEER.

SCALE: NONE

PIPE BEDDING – TYPE A



NOT TO SCALE

WATER SERVICE LATERAL

NOT TO SCALE

NOT TO SCALE

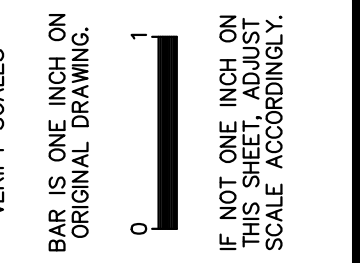
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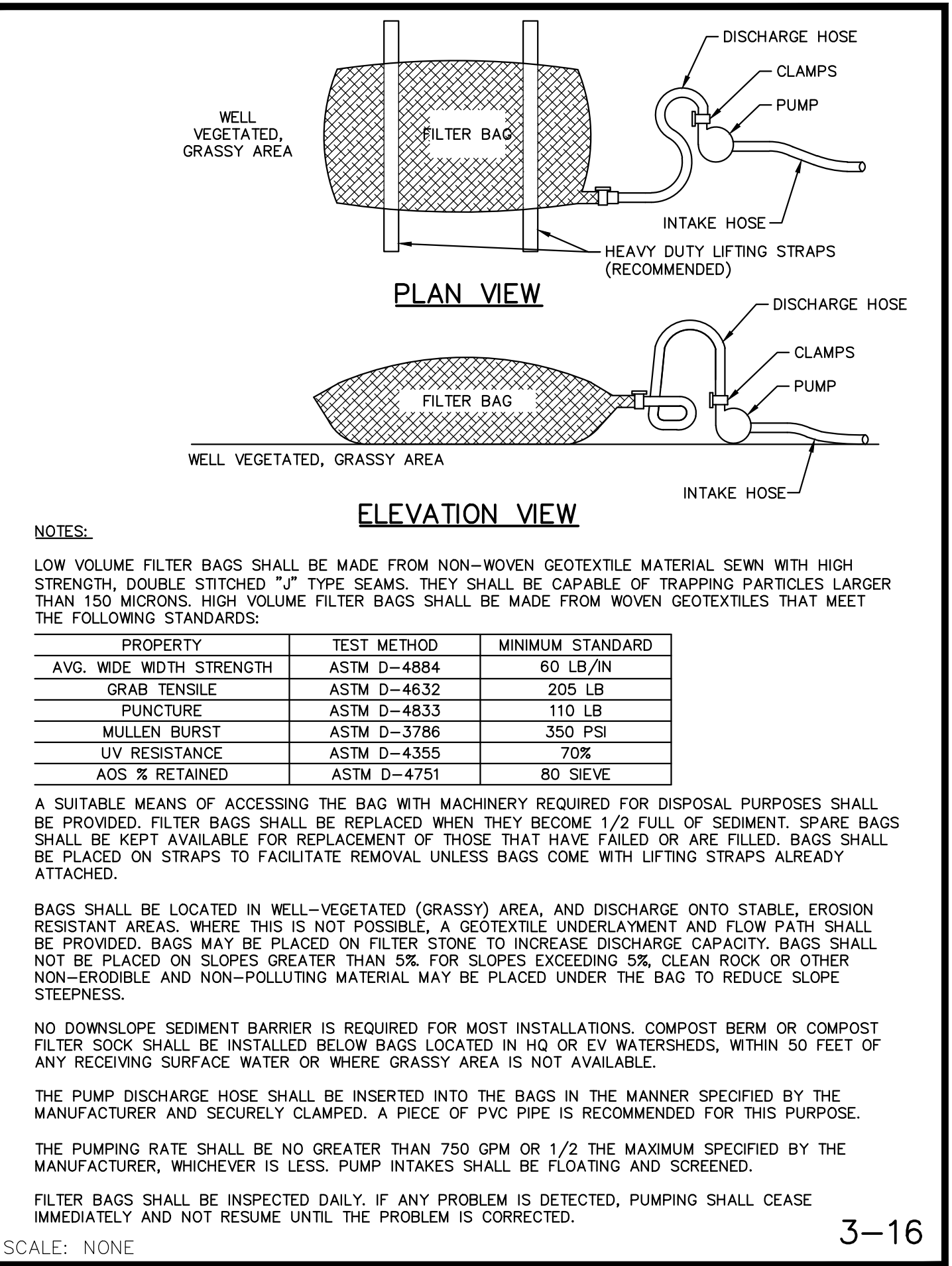
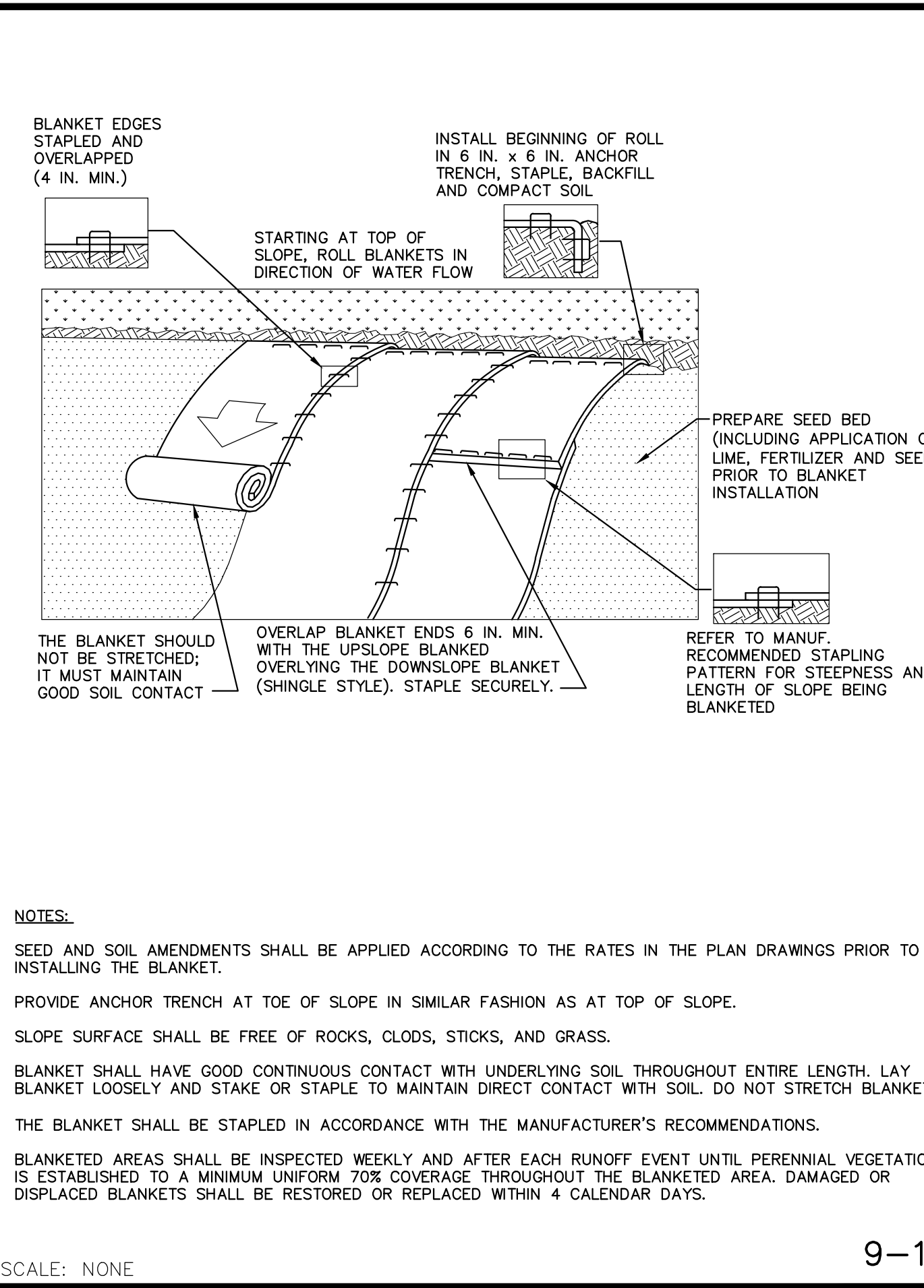
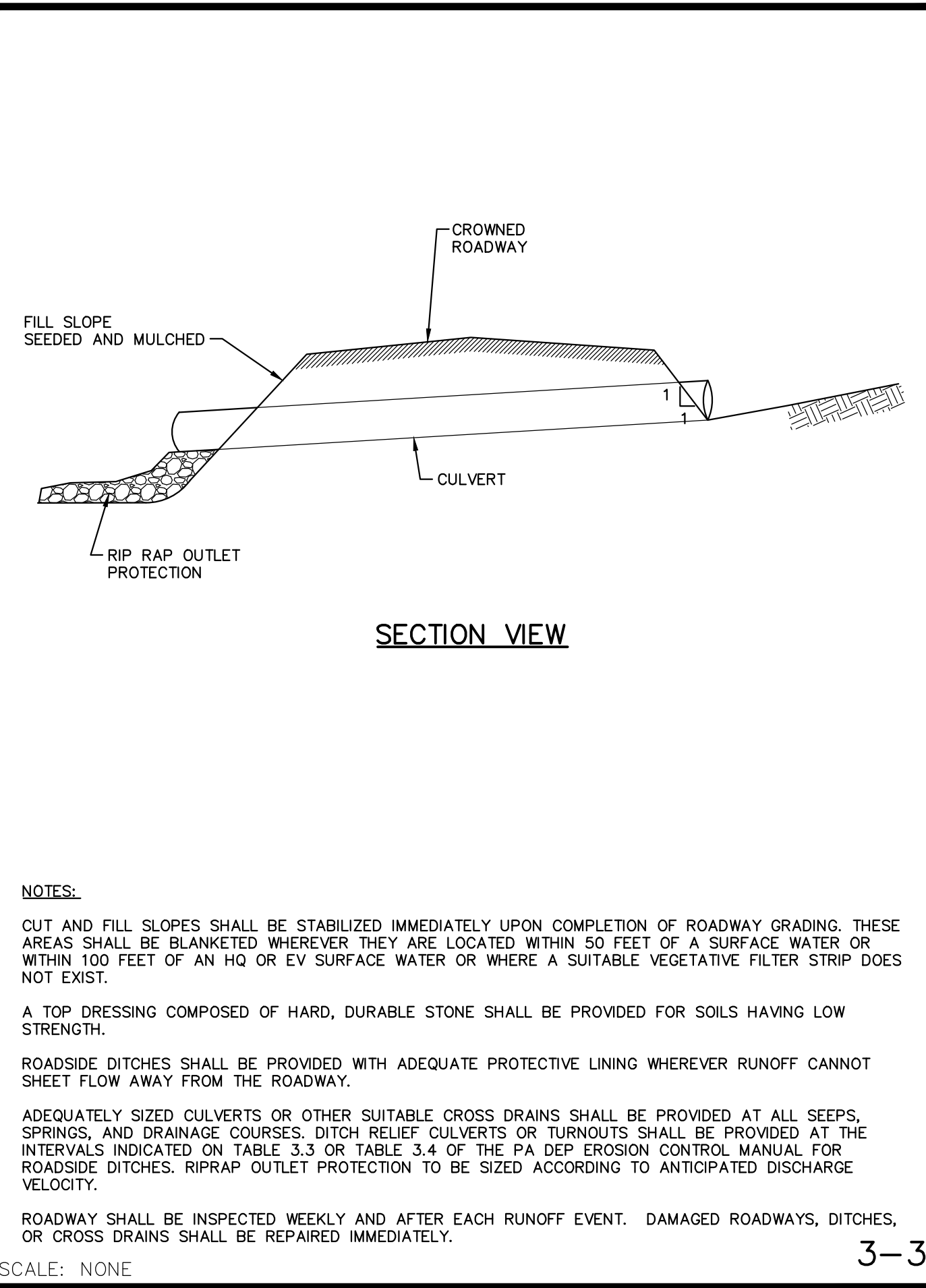
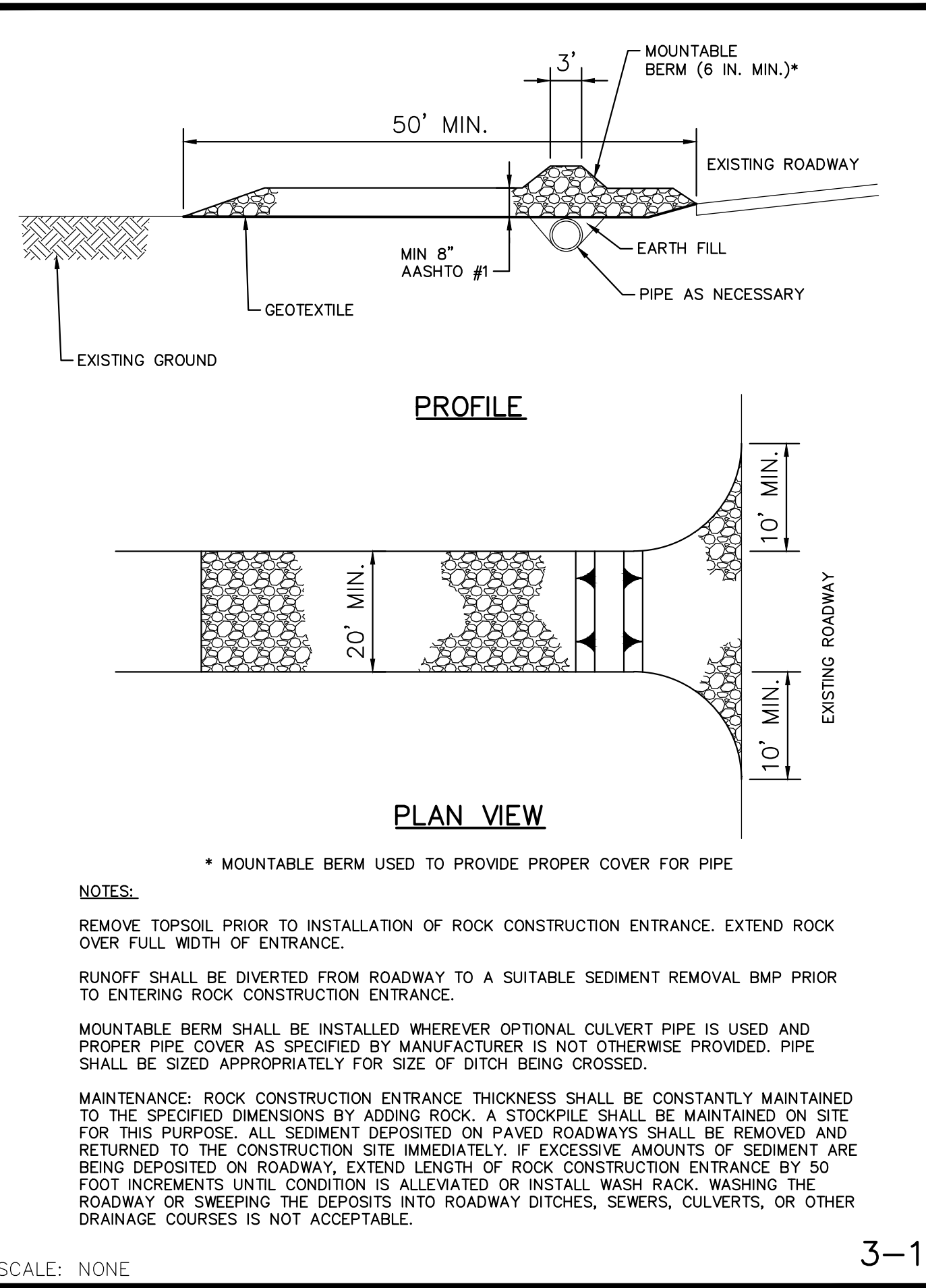
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THE PEACE CENTER AND CEMETERY
PRELIMINARY LAND DEVELOPMENT PLAN
UTILITY DETAILS – 1

SCALE AS NOTED
PROJECT NO. 1775003000
SHEET NO. 13

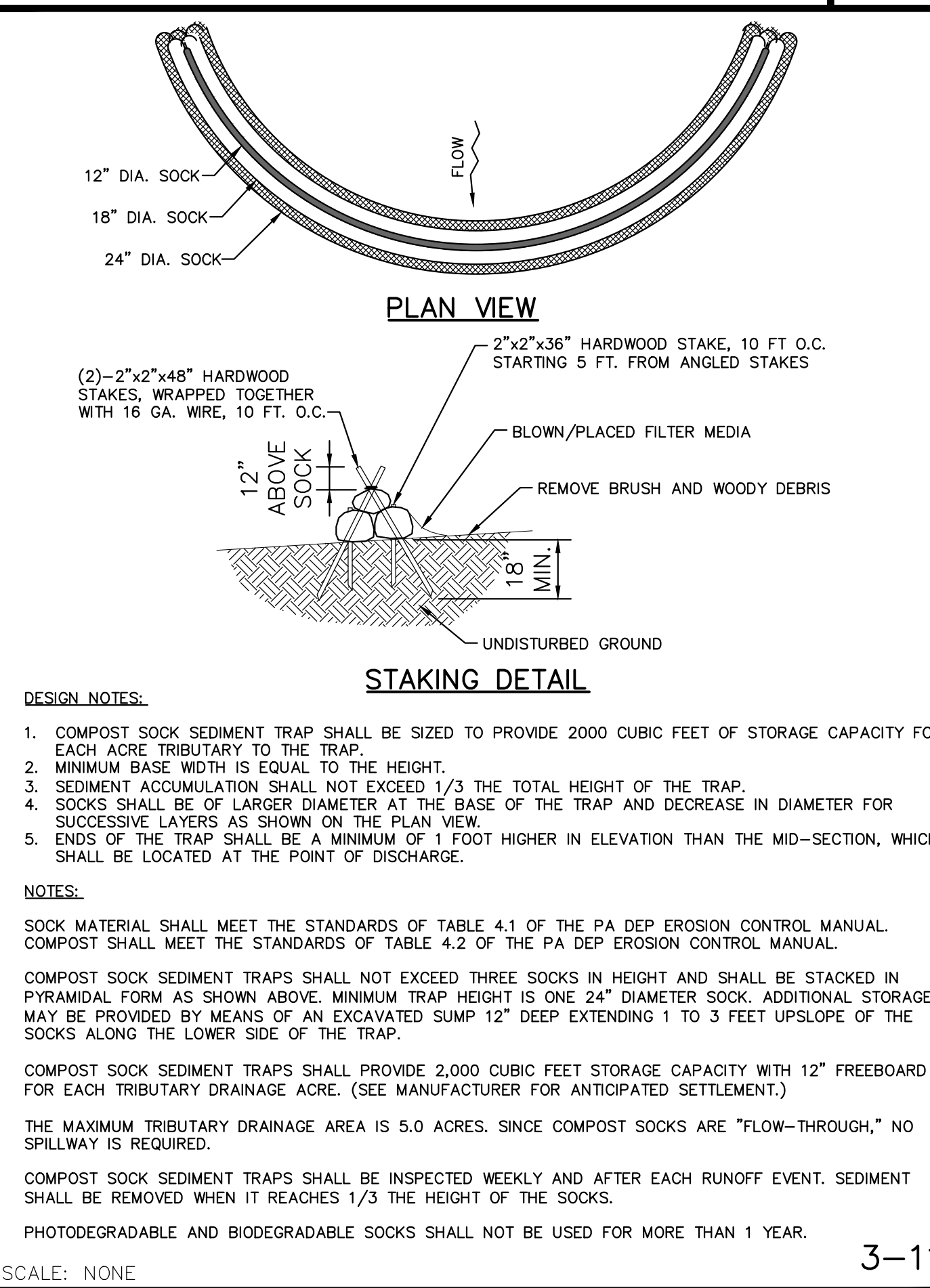
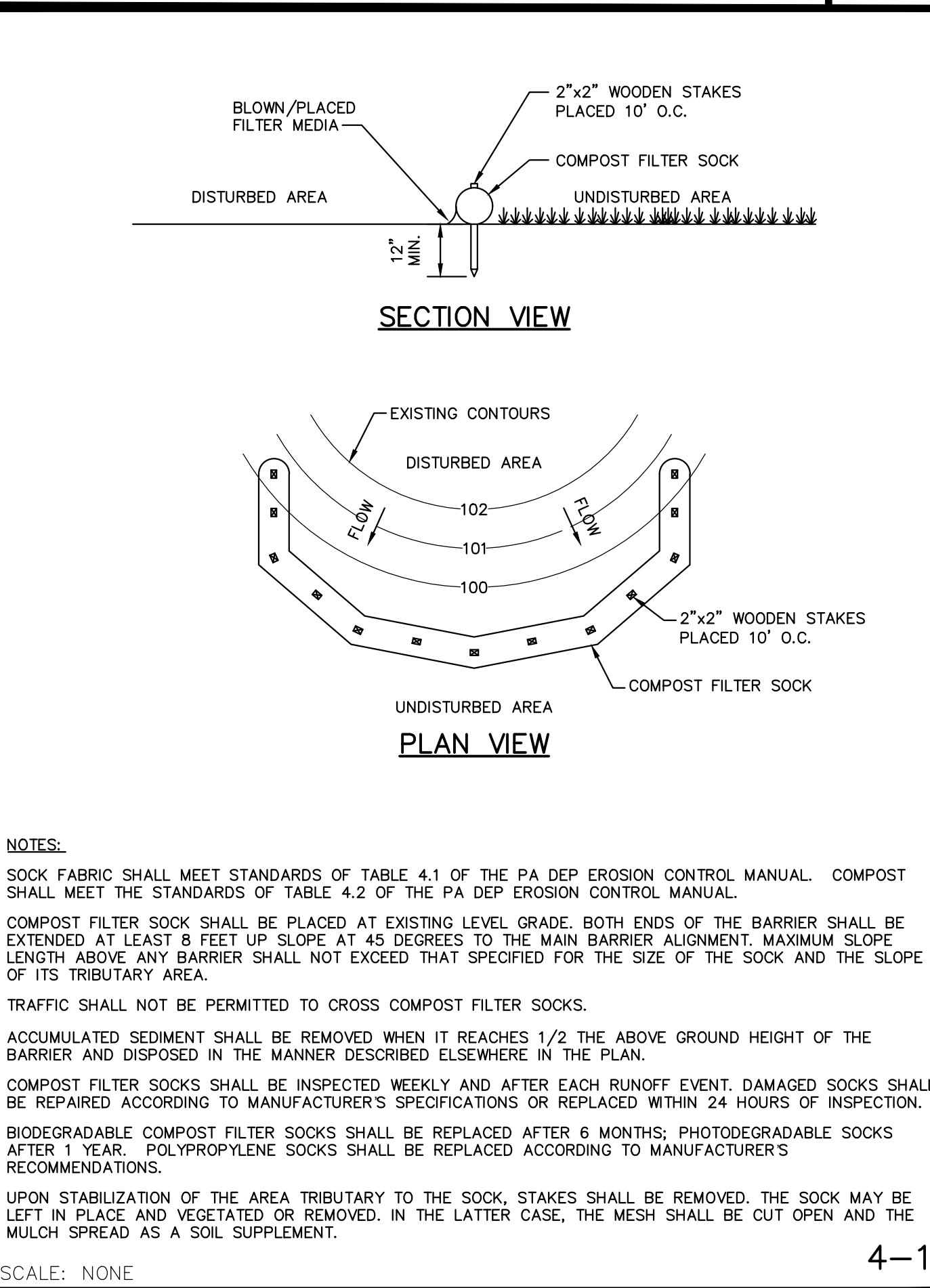


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SCALE: NONE 3-3

SCALE: NONE 9-1

SCALE: NONE 3-16



SCALE: NONE 3-11

SCALE: NONE 7

SCALE: NONE 4-1

SCALE: NONE 3-11

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SCALE: NONE 8

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THE PEACE CENTER AND CEMETERY
PRELIMINARY LAND DEVELOPMENT PLAN
EROSION & SEDIMENT CONTROL DETAILS - 1

SCALE AS NOTED
PROJECT NO. 1775003000
SHEET NO. 14

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INTRODUCTION

A. PROPERTY OWNER

ISLAMIC SOCIETY OF CENTRAL PENNSYLVANIA
454 ROLLING RIDGE DRIVE
STATE COLLEGE, PA 16801

B. PROJECT DESCRIPTION AND LOCATION

THE ISLAMIC SOCIETY OF CENTRAL PENNSYLVANIA PEACE CENTER AND CEMETERY LAND DEVELOPMENT PROJECT IS SITUATED IN FERGUSON TOWNSHIP, CENTRE COUNTY. ACCESS TO THE DEVELOPMENT IS FROM WEST COLLEGE AVENUE (SR 26). A SITE LOCATION MAP IS PROVIDED IN APPENDIX A.

THE ESTIMATED AREA OF DISTURBANCE FOR THE BUILDING ADDITION LAND DEVELOPMENT PROJECT IS 2.9-ACRES OF THE TOTAL 10.16-ACRE PARCEL, ZONED RA. THE DEVELOPMENT WILL INCLUDE SITE GRADING, PAVING, ASSOCIATED UTILITIES, STORMWATER FACILITIES, AND BUILDING CONSTRUCTION. CONSTRUCTION IS ANTICIPATED TO START IN THE SUMMER OF 2021. ACCORDING TO SECTION 302 OF THE FERGUSON TOWNSHIP STORMWATER ORDINANCE, THE PROJECT IS LOCATED IN A WATER QUALITY SENSITIVE (WQS) AREA.

C. PERSONS RESPONSIBLE FOR CONSTRUCTION

PRIVATE CONTRACTORS WILL BE HIRED BY THE ISLAMIC SOCIETY OF CENTRAL PENNSYLVANIA TO CONSTRUCT THE PROJECT. IT WILL BE THE CONTRACTUAL RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SATISFACTORY SOIL EROSION AND SEDIMENT POLLUTION CONTROLS IN ACCORDANCE WITH THE APPROVED PLAN AND TO INTERFACE WITH ALL REGULATORY BODIES.

THE OWNER, THE ISLAMIC SOCIETY OF CENTRAL PENNSYLVANIA, WILL BE RESPONSIBLE FOR MAINTAINING ALL PERMANENT EROSION AND SEDIMENT POLLUTION CONTROL MEASURES AS WELL AS ALL PERMANENT STORMWATER MANAGEMENT FACILITIES.

D. PLAN PREPARER

JEFFREY L. BOWMAN
2007 CATO AVENUE
STATE COLLEGE, PA 16801
PHONE: (814) 238-8223
EMAIL: JLB@UNI-TEC.COM

PART 1: TOPOGRAPHIC FEATURES AND GEOLOGIC FEATURES

THE PROPOSED PROJECT IS LOCATED IN THE CENTRAL PART OF PENNSYLVANIA IN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE OF THE COMMONWEALTH. THE PROJECT SITE CONSISTS OF DEVELOPED LAND ALONG WEST COLLEGE AVE. SR 0026. THE EXISTING CONDITION OF THE PROPOSED DISTURBED AREA CONSISTS OF GRASSED AND WOODED AREAS. THE PROPERTY ALL DRAINS TO THE UNNAMED TRIBUTARY ALONG WEST COLLEGE AVE. THAT LEADS TO SLAB CABIN RUN. THE TOTAL DRAINAGE AREA TO OUR POINT OF INTEREST IS LARGE (APPROXIMATELY 1.2 SQUARE MILES) BUT MOST OF THE WATER FLOWS ALONG WEST COLLEGE AVE. AND WILL NOT BE AFFECTED BY THIS DEVELOPMENT. AFTER REVIEWING THE PROJECT WITH THE TOWNSHIP'S ENGINEER THIS REPORT WILL LOOK AT A 30-ACRE DRAINAGE AREA THAT INCLUDES OUR PROJECT AREA AND THE AREA UPSLOPE FROM THIS PROJECT.

- CONVERSE CONSULTANTS CONDUCTED A PRELIMINARY GEOLOGIC INVESTIGATION ON THE SITE AS REQUIRED BY THE FERGUSON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE. THIS REPORT'S FOCUS WAS ON THE FOLLOWING:
- CLOSED DEPRESSIONS
 - OPEN SINKHOLES
 - OUTCROPS OF BEDROCK
 - AREAS OF SURFACE DRAINAGE INTO THE GROUND
 - "GHOST LAKES" AFTER RAIN EVENTS
 - LINEAMENTS, FAULTS, AND FRACTURE TRACES
 - LIMONITE EXCAVATIONS AND QUARRIES

THE REPORT SHOWED FIVE CLOSED DEPRESSION, THREE OUTCROPS, TWO AREAS OF SURFACE DRAINAGE INTO THE GROUND, SIX FRACTURE TRACES AND NO SINKHOLES "GHOST LAKES". THIS REPORT WAS PRESENTED TO THE FERGUSON TOWNSHIP ENGINEER FOR THIS REVIEW AND COMMENT BEFORE COMPLETING THE STORMWATER DESIGN. AFTER REVIEWING THE REPORT UNI-TEC CONSULTING ENGINEERS, FERGUSON TOWNSHIP AND THE STATE COLLEGE AREA WATER AUTHORITY MET TO DISCUSS THE FINDINGS AND THE PROPOSED STORMWATER MANAGEMENT PLAN. THE DESIGN PRESENTED IN THIS REPORT REFLECTS SOME OF THE SUGGESTIONS GIVEN IN THAT MEETING.

REFER TO THE LOCATION MAP PROVIDED IN APPENDIX A AND THE CONSTRUCTION PLANS FOR EXISTING AND PROPOSED TOPOGRAPHIC MAPPING OF THE PROJECT SITE.

THERE ARE NO WETLANDS IDENTIFIED ON THE SITE PER FEMA MAPPING AND THE NATIONAL WETLANDS INVENTORY ONLINE MAPPING TOOL.

PART 2: TYPE, SLOPE, AND LIMITATION OF SOILS

CONSTRUCTION OF THE SITE WILL OCCUR ON FOUR SOIL TYPES, ACCORDING TO THE NATIONAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY, SOIL MAP OF CENTRE COUNTY. TABLE 2 LIST THE SOIL TYPE, SLOPE CONSTRUCTION ACTIVITY PROPOSED, AND THE ASSOCIATED LIMITING FACTORS FOR THE SOILS THAT ARE PRESENT THROUGHOUT THE SITE.

TABLE 1
SOIL DESCRIPTION

SYMBOL	TYPE	RUNOFF CLASS	CONSTRUCTION ACTIVITIES	LIMITATIONS	HYDRIC
RxB	REXFORD SILT LOAM, 3 TO 10 PERCENT SLOPES	VERY HIGH	EXCAVATION, DIRECTIONAL BORING	SOMEWHAT POORLY DRAINED	NO
WyC	WYOMING GRAVELLY SANDY LOAM, 12 TO 20 PERCENT SLOPES	LOW	EXCAVATION	SOMEWHAT EXCESSIVELY DRAINED	NO

PART 3: CHARACTERISTICS OF EARTH DISTURBANCE ACTIVITY

THE EXACT DATES OF CONSTRUCTION ARE NOT YET KNOWN. CONSTRUCTION IS ANTICIPATED TO BEGIN IN SUMMER/FALL OF 2021. THE OVERALL PROJECT CONSTRUCTION LENGTH WILL BE APPROXIMATELY EIGHT MONTHS.

A. CHARACTERISTICS OF EARTH DISTURBANCE ACTIVITY

THE PROPOSED PROJECT WILL CONSIST OF THE EXCAVATION FOR THE INSTALLATION OF A ACCESS DRIVEWAY, PARKING LOT, BUILDING AND STORMWATER FACILITIES.

B. PAST, PRESENT, AND PROPOSED LAND USES

THE AREA OF THE PROPOSED CEMETERY AND BUILDING ARE CURRENTLY AND, IN THE PAST, HAS BEEN FARMED FIELDS AND WOODED AREA.

PART 4: AMOUNT OF RAINFALL RUNOFF

THIS PROJECT WILL INCREASE THE IMPERVIOUS SURFACES OF THE SITE BY APPROXIMATELY 0.6 ACRES. TO MITIGATE THE INCREASE IN RUNOFF ON THE SITE S STORMWATER DETENTION BASIN AND TWO INFILTRATION TRENCHES WERE USED. A POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN WAS SUBMITTED TO FERGUSON TOWNSHIP FOR APPROVAL.

PART 5: LOCATION OF WATERS OF THE COMMONWEALTH

A. LOCATION OF WATERS OF THE COMMONWEALTH

DRAINAGE FROM THE SITE NATURALLY DRAINS TO AND UNNAMED TRIBUTARY THAT FLOWS TO SLAB CABIN RUN LOCATED DOWNSTREAM OF THE PROJECT SITE. THIS UNNAMED TRIBUTARY TO SLAB CABIN RUN HAS A CHAPTER 93 CLASSIFICATION OF CWF (COLD WATER FISHES).

THE PROJECT SITE IS LOCATED WITHIN A WATER QUALITY SENSITIVE DISTRICT PER THE CURRENT FERGUSON TOWNSHIP STORMWATER ORDINANCE APPENDIX B EXHIBIT 1.

B. THERMAL IMPACTS TO WATERS OF THE COMMONWEALTH

THERE ARE NO PROPOSED THERMAL IMPACTS TO THE WATERS OF THE COMMONWEALTH AS A RESULT OF THE DISTURBANCE ACTIVITY. THE NEW IMPERVIOUS AREA WILL EITHER FLOW INTO THE BASIN, INFILTRATION TRENCH OR THROUGH THE 50 FOOT STREAM BUFFER BEFORE FLOWING OFF SITE.

C. RIPARIAN FOREST BUFFERS

THERE ARE NO EXISTING RIPARIAN FOREST BUFFERS IN THE VICINITY OF THE PROPOSED PROJECT.

PART 6: TEMPORARY CONTROL MEASURES

THE PURPOSE OF TEMPORARY CONTROL MEASURES IS TO PREVENT OR MINIMIZE SOIL EROSION AND SEDIMENT POLLUTION UNTIL A PERMANENT GROUND COVER CAN BE ESTABLISHED.

A. CONSTRUCTION WORK LIMIT

EARTH DISTURBANCE FOR THE PROJECT WILL BE LIMITED TO CONSTRUCTION WORK LIMIT OUTLINED ON THE DRAWINGS. THE CONTRACTOR WILL MAINTAIN PROPER CONTROL AND MINIMIZE THE WORK AREA AS MUCH AS POSSIBLE. THIS PLAN WILL WORK AS A GUIDELINE IN PROPER CONTROLS AND ANY CHANGES TO THIS PLAN MUST BE COORDINATED WITH THE CENTRE COUNTY CONSERVATION DISTRICT, AND ANY OTHER RESPONSIBLE AGENCIES.

B. COMPOST FILTER SOCK

PLACE FILTER SOCK WHERE SHOWN ON THE DRAWINGS PARALLEL TO CONTOUR WITH BOTH ENDS OF THE SOCK EXTENDED UPSLOPE AT A 45° ANGLE TO THE REST OF THE SOCK.

ANCHOR SOCK TO THE GROUND WITH 2"x2" HARD WOOD STAKES DRIVEN THROUGH THE SOCK INTO THE GROUND AT 10-FOOT INTERVALS, OR AT INTERVALS RECOMMENDED BY THE MANUFACTURER. STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 12 INCHES AND 8 INCHES FOR CLAY SOILS.

PLACE LOOSE COMPOST BACKFILL ALONG THE UPSLOPE SIDE OF THE SOCK, FILLING THE SEAM BETWEEN THE SOIL SURFACE AND THE SOCK.

SOCK FABRIC AND COMPOST MUST MEET THE MINIMUM SPECIFICATIONS LISTED IN TABLES 2 AND 3.

TABLE 2
COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

3 MIL HDPE	MATERIAL TYPE	5 MIL HDPE	5 MIL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12", 18"	18", 12", 18", 14", 32"	18", 12", 18", 14", 32"	18", 12", 18", 14", 32"	18", 12", 18", 14", 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)		23% AT 1000 HR		100% AT 1000 HR	100% AT 1000 HR
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS

TWO-PLY SYSTEMS

INNER CONTAINMENT NETTING	HDPE BIAXIAL NET
	CONTINUOUSLY WOUND
	FUSION-WELDED JUNCTURES
	3/4"x3/4" MAX. APERTURE SIZE
OUTER FILTRATION MESH	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER & NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)
	3/16" MAX. APERTURE SIZE
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS	

TABLE 3
COMPOST MINIMUM SPECIFICATIONS

ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
PH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS MAXIMUM

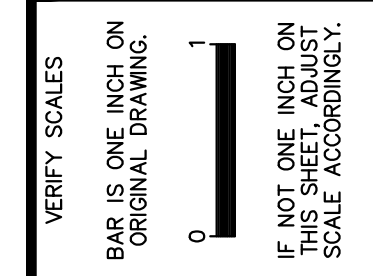
MAINTENANCE:

1. SOCKS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EACH RUNOFF EVENT.
2. ACCUMULATED SEDIMENTS SHALL BE REMOVED WHEN IT REACHES ONE-HALF (½) THE ABOVE GROUND HEIGHT OF THE SOCK AND INCORPORATED BACK INTO THE SITE.
3. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
4. ANY AREAS OF COMPOST FILTER SOCK WHICH ARE UNDERMINED OR OVERTOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.
5. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS SHALL BE REPLACED AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
6. SOCK SHALL BE MAINTAINED UNTIL DISTURBED AREA ABOVE THE SOCK HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY IS COMPLETED.
7. UPON FINAL STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, THE STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED, OR REMOVED. IF REMOVED, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOILS SUPPLEMENT.

C. PUMPED WATER FILTER BAG

WHEN NECESSARY, A PUMPED WATER FILTER BAG WILL BE PLACED IN A LOCATION DETERMINED APPROPRIATE BY FIELD INSPECTION TO REMOVE SEDIMENT FROM WATER PUMPED FROM TRENCH EXCAVATIONS. SEE THE CONTRACT DRAWINGS FOR CONSTRUCTION DETAILS.

1. PLACE PUMPED WATER FILTER BAG IN A LOCATION AS DETERMINED APPROPRIATE BY FIELD INSPECTION. THE CONTRACTOR SHALL PLACE THE FILTER BAG AT A SUFFICIENT DISTANCE FROM THE WATERWAY TO AVOID SEDIMENT POLLUTION AND TO PROVIDE ACCESS FOR REMOVAL OF THE FILTER BAG. CONNECT PUMP DISCHARGE LINE (UP TO 4') TO SPOUT AND SECURE OPENING TO PREVENT UNFILTERED WATER FROM ESCAPING THROUGH THE SPOUT.
2. TO INCREASE THE EFFICIENCY, PLACE THE FILTER BAG ON A BED OF GRAVEL OR A WELL-VEGETATED AREA TO ALLOW FLOW IN ALL DIRECTIONS. INSTALL COMPOST FILTER SOCK AROUND THE FILTER BAG.
3. WHERE GRASSY VEGETATIVE COVER IS NOT AVAILABLE, A SUITABLE PROTECTIVE UNDERLAYMENT SHALL BE PROVIDED BENEATH THE BED OF GRAVEL.
4. FILTER BAGS SHALL TRAP PARTICLES LARGER THAN 150 MICRONS. THE PUMPING RATE FOR ANY FILTER BAG SHALL NOT EXCEED ½ THE DESIGN MAXIMUM.
5. FILTER BAGS SHALL NOT BE PLACED ON ANY SLOPE GREATER THAN 5%.
6. FILTER BAG LOCATIONS MUST HAVE PRIOR APPROVAL FROM THE TIOGA COUNTY CONSERVATION DISTRICT AND/OR THE ENGINEER.



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THE PEACE CENTER AND CEMETERY
PRELIMINARY LAND DEVELOPMENT PLAN
EROSION & SEDIMENT CONTROL NARRATIVE 1

SCALE AS NOTED
PROJECT NO. 1775003000
SHEET NO. 15

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MATERIALS:

THE FOLLOWING ARE MINIMUM REQUIREMENTS OF A FILTER BAG:

PROPERTY	TEST METHOD	NONWOVEN FABRIC	
		60 LB/IN*	100 LB/IN*
AOS% RETAINED	ASTM D-4751	100%	100%
UV RESISTANT	ASTM D-4355	70%	70%
MULLEN BURST	ASTM D-3786	400 PSI	550 PSI
PERMITIVITY	ASTM D-4991	1.5 SECP-1P	1.3 SECP-1P
FLOW RATE	ASTM D-4491	80 GPM/SF	70 GPM/SF
PUNCTURE	ASTM D-4833	130 LBS.	165 LBS.
GRAB TENSILE	ASTM D-4632	203 LBS.	250 LBS.

*SEAMS SHALL HAVE AN AVERAGE WIDTH STRENGTH IN ACCORDANCE WITH ASTM D-4884.

MAINTENANCE:

WHEN ACCUMULATED SEDIMENTS REACH 1/4 OF THE TOTAL BAG CAPACITY, IT SHALL BE CONSIDERED FULL. AT THAT TIME, THE CONTRACTOR SHALL REPLACE THE FILTER BAG WITH A NEW BAG. ACCUMULATED SEDIMENT IN THE FILTER BAG SHALL BE INCORPORATED INTO THE CONSTRUCTION. IF THIS IS NOT POSSIBLE, THEN THE SEDIMENT SHALL BE PROPERLY DISPOSED OF AT A DEP-APPROVED SITE.

D. TEMPORARY VEGETATIVE SURFACE STABILIZATION

INSTALLATION:

WHENEVER DISTURBED AREAS WILL REMAIN IN PLACE FOR MORE THAN FOUR (4) DAYS, THE AREA WILL BE IMMEDIATELY STABILIZED BY USING THE TEMPORARY COVER SPECIFIED IN TABLE 4. IF THE AREA WILL BE PERMANENTLY STABILIZED WITHIN A SHORT PERIOD AFTER THE FOUR (4) DAY LIMIT OR IF SEED WILL NOT GERMINATE DUE TO WEATHER, THE AREA MAY BE TEMPORARILY STABILIZED WITH MULCH (SEE TABLE 5). IF TEMPORARILY STABILIZED WITH MULCH, THE MULCHED AREA SHOULD BE RAKED, SEEDED, AND MULCHED DURING THE FIRST AVAILABLE GROWING SEASON.

MAINTENANCE:

TEMPORARY VEGETATION OR MULCH SHALL BE INSPECTED AFTER EACH PRECIPITATION EVENT TO ENSURE THAT NO AREAS OF EROSION ARE PRESENT. IF PRESENT, THE AREAS SHOULD BE RESTABILIZED IMMEDIATELY.

TABLE 4
TEMPORARY RESEEDING SCHEDULE¹

SPECIES	lb/A
FOR SPRING SEEDING (UP TO JUNE 15)	
ANNUAL RYEGRASS,	40
OR SPRING OATS,	96 (3 BU)
OR SPRING OATS PLUS RYEGRASS	64 OATS (2 BU) PLUS 20 LB ANNUAL OR PERENNIAL RYEGRASS
OR WINTER WHEAT	180 (3 BU)
OR WINTER RYE	168 (3 BU)
FOR LATE SPRING AND SUMMER SEEDING (JUNE 16 TO AUGUST 15)	
ANNUAL RYEGRASS,	40
OR JAPANESE OR FOXTAIL MILLET,	35
OR SUNDANGRASS,	40
OR SPRING OATS,	96 (3 BU)
OR WINTER WHEAT,	180 (3 BU)
OR WINTER RYE	168 (3 BU)
FOR LATE SUMMER AND FALL SEEDING (AUGUST 16 AND LATER)	
ANNUAL RYEGRASS,	40
OR WINTER RYE,	168 (3 BU)
OR WINTER WHEAT,	180 (3 BU)
OR SPRING OATS (CAN BE USED BUT WILL WINTER KILL)	96 (3 BU)
SITE PREPARATION FOR ANY OF THE ABOVE SCHEDULES SHALL INCLUDE APPLYING AGRICULTURAL-GRADE LIMESTONE AND FERTILIZER PER APPLICATION RATES IN TABLE 5. SECURE A SOIL TEST BEFORE MAKING A PERMANENT SEEDING. AFTER SEEDING, MULCH WITH HAY OR STRAW AT AN APPLICATION RATE PER TABLE 5.	
1. REFERENCED FROM THE PENN STATE AGRONOMY GUIDE, 1995-1996.	

PART 7: PERMANENT CONTROL MEASURES

A. VEGETATIVE SURFACE STABILIZATION

INSTALLATION:

PERMANENT VEGETATIVE STABILIZATION WILL BE PROVIDED ON ALL DISTURBED AREAS NOT COVERED BY GRAVEL OR PAVEMENT AT THE END OF ALL WORK. IF PERMANENT VEGETATIVE STABILIZATION WILL NOT BE ESTABLISHED WITHIN FOUR (4) DAYS, THE AREA SHOULD BE SEEDED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION.

THE VEGETATION WILL FOLLOW THE REQUIREMENTS OF TABLES 5, 6, AND 7.

PERMANENT VEGETATED AREAS WILL BE INSPECTED AFTER EACH PRECIPITATION EVENT UNTIL UNIFORM EROSION RESISTANT PERENNIAL VEGETATIVE COVER OF AT LEAST 70% IS MAINTAINED FOR A PERIOD OF ONE YEAR. AFTER THIS TIME, THE AREAS WILL BE INSPECTED QUARTERLY. ANY AREAS THAT DEMONSTRATE ACTIVE EROSION OR A UNIFORM VEGETATIVE COVER LESS THAN 70% WILL BE CORRECTED IMMEDIATELY.

TABLE 5
PERMANENT REVEGETATION, FERTILIZATION, AND MULCHING SPECIFICATIONS

SOIL AMENDMENT	PERMANENT SEEDING APPLICATION RATE			NOTES
	PER ACRE	PER 1,000 SQ. FT	PER 1,000 SQ. YD	
AGRICULTURAL LIME	6 TONS	240 LB.	2,480 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-20-20 FERTILIZER	1,000 LB.	25 LB.	210 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
TEMPORARY SEEDING APPLICATION RATE				
AGRICULTURAL LIME	1 TON	40 LB.	410 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
10-10-10 FERTILIZER	500 LB.	12.5 LB.	100 LB.	OR AS PER SOIL TEST; TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
MULCH APPLICATION RATE				
STRAW	3 TONS	140 LB.	1,240 LB.	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN
HAY	3 TONS	140 LB.	1,240 LB.	TIMOTHY, MIXED CLOVER, AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES
WOOD CHIPS	4-6 TONS	140 LB.	1,650-2,500 LB.	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES
HYDROMULCH	1 TON	47 LB.	412 LB.	NOT TO BE USED ON SLOPES GREATER THAN 5% MINIMUM APPLICATION RATE 2,000 LB/ACRE. WOOD FIBER MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED.

TABLE 6
MIXTURES FOR VARIOUS SITES¹

DESCRIPTION	NURSE CROP	SEED MIXTURE (SELECT ONE MIXTURE)
GRASS AND LEGUME-GRASS MIXTURES SUITABLE FOR EROSION CONTROL AND STABILIZATION OF VARIOUS CONSERVATION STRUCTURES ARE LISTED BELOW. CAREFULLY STUDY TABLE 10-1 IN THE PENN STATE AGRONOMY GUIDE AND TABLE 5 OF THIS DOCUMENT BEFORE SELECTING A SEED MIXTURE. USE ONLY SEED HIGH IN GERMINATION THAT EQUALS OR EXCEEDS MINIMUM SPECIFICATIONS IN TABLE 10-1. VARIABLE DRAINAGE REFERS TO AREAS WHERE WELL-DRAINED SOILS AND POORLY DRAINED SOILS ARE INTERMINGLED. USE MIXTURES FROM TABLE 5		
SLOPES AND BANKS (UNMOWN) WELL-DRAINED VARIABLE DRAINAGE	1 PLUS 1 PLUS	3, 5, 8, OR 12 ² 3 OR 7
SLOPES AND BANKS (MOWN) WELL DRAINED	1 PLUS	2 OR 10
SLOPES AND BANKS (GRAZED/HAY) WELL DRAINED	1 PLUS	2, 3, OR 13
GULLIES AND ERODED AREAS	1 PLUS	3, 5, 7, OR 12 ²
CONSERVATION STRUCTURES		
AREAS	1 PLUS	2, 3, OR 4
DRAINAGE DITCHES SHALLOW, LESS THAN 3 FEET DEEP	1 PLUS	2, 3, OR 4
DEEP, UNMOWN	1 PLUS	5 OR 7
POND BANKS, DIKES, LEVEES, DAMS, DIVERSION CHANNELS, AND OCCASIONAL WATER FLOW AREAS		
MOWN AREAS	1 PLUS	2 OR 3
UNMOWN AREAS	1 PLUS	5 OR 7
FOR HAY OR SILAGE ON DIVERSION CHANNELS AND OCCASIONAL WATER FLOW AREAS	1 PLUS	3 OR 13
HIGHWAYS UNMOWN AREAS		
PURE CROWNVEATCH	1 PLUS	5 OR 6
WELL-DRAINED	1 PLUS	5, 7, 8, 9, OR 10
VARIABLE DRAINAGE	1 PLUS	3 OR 7
POORLY DRAINED	1 PLUS	3 OR 4
AREAS MOWN SEVERAL TIMES PER YEAR	1 PLUS	3 OR 13
UTILITY RIGHT-OF-WAY WELL-DRAINED	1 PLUS	5, 8, OR 12 ²
VARIABLE DRAINAGE	1 PLUS	3 OR 7
WELL-DRAINED AREAS FOR GRAZING/HAY	1 PLUS	2, 3, OR 13
EFFLUENT DISPOSAL AREAS	1 PLUS	3 OR 4
SANITARY LANDFILL AREAS	1 PLUS	3, 5, 7, 11 ² , OR 12 ²
STRIPMINED SPOILS, MINE WASTES, FLY ASH, SLAG, SETTling-BASIN RESIDUES, AND OTHER SEVERELY DISTURBED AREAS (LIME TO SOIL TEST)	1 PLUS	3, 4, 5, 7, 8, 9, 11 ² OR 12 ²
SEVERELY DISTURBED AREAS USED FOR GRAZING/HAY	1 PLUS	3 OR 13
1. REFERENCED FROM THE PENN STATE AGRONOMY GUIDE, 1995-1996		
2. FOR SEED MIXTURES 11 AND 12, ONLY USE SPRING OATS OR WEEPING LOVEGRASS (INCLUDED IN MIX) AS NURSE CROP.		
3. CONTACT THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION DISTRICT ROADSIDE SPECIALIST FOR SPECIFIC SUGGESTIONS ON TREATMENT TECHNIQUES AND MANAGEMENT PRACTICES.		

REFERENCED FROM THE PENN STATE AGRONOMY GUIDE, 1995-1996.

TABLE 7
SEEDING MIXTURES FOR CONSERVATION PLANTINGS¹

KEY TO MIXTURES IN TABLE 4	SEEDING RATE PLS ² (lb/A)	SEEDING RATE PLS ² (lb/A)	
		MOST SITES	ADVERSE SITES
1 ³	SPRING OATS (SPRING), OR ANNUAL RYEGRASS (SPRING OR FALL), OR WINTER WHEAT (FALL), OR WINTER RYE (FALL)	64 10 90 56	96 15 120 112
2 ⁴	TALL FESCUE, OR FINE FESCUE, OR KENTUCKY BLUEGRASS, PLUS REDTOP ⁵ OR PERENNIAL RYEGRASS	60 35 25 3 15	75 40 30 30 20
3	BIRDSFOOT TREFOIL, PLUS TALL FESCUE	6 30	10 35
4	BIRDSFOOT TREFOIL, PLUS REED CANARYGRASS	6 10	10 15
5	CROWNVEATCH, PLUS TALL FESCUE, OR PERENNIAL RYEGRASS	10 20 20	15 25 25
6 ⁶	CROWNVEATCH, PLUS ANNUAL RYEGRASS	10 20	15 25
7	BIRDSFOOT TREFOIL, PLUS CROWNVEATCH, PLUS TALL FESCUE	6 10 20	10 20 30
8	FLATPEA, PLUS TALL FESCUE OR PERENNIAL RYEGRASS	20 20 20	30 30 25
9 ⁷	SERECIA LESPEDEZA, PLUS TALL FESCUE, PLUS REDTOP ⁵	10 20 3	20 25 3
10	TALL FESCUE, PLUS FINE FESCUE	40 10	60 15
11	DEERTONGUE, PLUS BIRDSFOOT TREFOIL	15 6	20 10
12 ⁸	SWITCHGRASS OR BIG BLUESTEM, PLUS BIRDSFOOT TREFOIL	15 6	20 10
13	ORCHARDGRASS OR SMOOTH BROMEGRASS, PLUS BIRDSFOOT TREFOIL	20 25 6	30 35 10

- REFERENCED FROM THE PENN STATE AGRONOMY GUIDE, 1995-1996.
- PLS MEANS PURE LIVE SEED. PLS IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. FOR EXAMPLE, TO SECURE THE ACTUAL PLANTING RATE FOR SWITCHGRASS, DIVIDE 12 POUNDS PLS BY THE PLS PERCENTAGE SHOWN ON THE SEED TAG OR CALCULATED AS PREVIOUSLY DISCUSSED. THUS, IF THE PLS CONTENT OF A GIVEN SEEDLOT IS 35%, DIVIDE PLS BY 0.35 TO OBTAIN 34.3 POUNDS OF SEED, THE AMOUNT OF SEED REQUIRED TO PLANT 1 ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS.
- IF HIGH-QUALITY SEED IS USED, FOR MOST SITES SEED SPRING OATS AT A RATE OF 2 BUSHELS PER ACRE, WINTER WHEAT AT 11.5 BUSHELS PER ACRE, AND WINTER RYE AT 1 BUSHEL PER ACRE. IF GERMINATION IS BELOW 90%, INCREASE THESE SUGGESTED SEEDING RATES BY 0.5 BUSHEL PER ACRE.
- THIS MIXTURE IS SUITABLE FOR FREQUENT MOWING. DO NOT CUT SHORTER THAN 4 INCHES.
- KEEP SEEDING RATE TO THAT RECOMMENDED IN TABLE. THESE SPECIES HAVE MAY SEEDS PER POUND AND ARE VERY COMPETITIVE. TO SEED SMALL QUANTITIES OF SMALL SEEDS SUCH AS WEEPING LOVEGRASS AND REDTOP, DILUTE WITH DRY SAWDUST, SAND, RICE HULLS, BUCKWHEAT HULLS, ETC.
- USE FOR HIGHWAY SLOPES AND SIMILAR SITES WHERE THE DESIRED SPECIES AFTER ESTABLISHMENT IS CROWNVEATCH.
- USE ONLY IN EXTREME SOUTHEASTERN OR EXTREME SOUTHWESTERN PENNSYLVANIA. SERECIA LESPEDEZA IS NOT WELL ADAPTED TO MOST OF PENNSYLVANIA.
- DO NOT MOW SHORTER THAN 9 TO 10 INCHES. ROADWAY STABILIZATION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

DATE

REV. DESCRIPTION

DESIGNED BY: JLB
CHECKED BY: P.W.
DRAWN BY: DHS
104-28-21



ENGINEERS SEAL

THE PEACE CENTER AND CEMETERY
PRELIMINARY LAND DEVELOPMENT PLAN
EROSION & SEDIMENT CONTROL NARRATIVE 2

SCALE AS NOTED
PROJECT NO. 1775003000
SHEET NO. 16

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PART 8: STAGING OF EARTH MOVING ACTIVITIES

ALL DISTURBANCES ASSOCIATED WITH THE ISLAMIC SOCIETY OF CENTRAL PENNSYLVANIA PEACE CENTER AND CEMETERY PROJECT WILL BE RESTORED ACCORDING TO THE FINAL GRADING SHOWN ON THE CONSTRUCTION DRAWINGS. CONSTRUCTION IS ANTICIPATED TO START IN SUMMER OF 2021.

A. CONSTRUCTION SEQUENCE

1. THE CONTRACTOR SHALL NOTIFY THE CONSERVATION DISTRICT TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION AND FIVE (5) DAYS PRIOR TO ANY PLAN CHANGES.
2. EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE PLACED AT LOCATIONS SHOWN ON THE CONSTRUCTION PLANS AND IN ACCORDANCE WITH APPLICABLE CONSTRUCTION PLAN DETAILS PRIOR TO EARTH MOVING ACTIVITIES.

B. DRIVEWAY INSTALLATION

1. FOLLOW GUIDELINES IN THE CONSTRUCTION PLAN DETAILS SHEET FOR PLACEMENT.
2. THE CONTRACTOR SHALL CONSTRUCT THE DRIVEWAY ENTRANCE AND ROCK CONSTRUCTION ENTRANCE AS SHOWN ON THE LAND DEVELOPMENT PLANS AND ACCORDING TO THE PENNDOT HOP PLAN. THIS INCLUDES GRADING AND STORMWATER PIPES UNDER THE ENTRANCE.
3. IN GENERAL, ALL TRENCHES SHALL BE BACKFILLED ON THE DAY OF PIPE PLACEMENT EXCEPT WHERE ANCHORS AND HYDROSTATIC TESTING IS REQUIRED. IN THIS CASE, A MAXIMUM OF SIX (6) DAYS MAY ELAPSE BETWEEN WATER MAIN INSTALLATION AND TRENCH BACKFILL OPERATIONS.
4. SEED AND VEGETATIVE MULCH DISTURBED AREAS WITHIN FOUR DAYS AFTER TRENCHES HAVE BEEN BACKFILLED OR RESTORE PAVEMENT, AS APPROPRIATE.
5. AS APPLICABLE, AFTER A MINIMUM OF 70% VEGETATIVE PERMANENT STABILIZATION OF A UNIFORM COVERAGE CAPABLE OF RESISTING ACCELERATION EROSION AND SEDIMENTATION, REMOVE TEMPORARY CONTROL STRUCTURES. THIS MAY ALSO INCLUDE INLET PROTECTION.

C. BUILDING AND PARKING LOT CONSTRUCTION

1. CLEAR, GRUB, AND DEMO AREA FOR NEW BUILDING AND FENCE IN ALL APPLICABLE AREAS AS INDICATED ON THE PLANS. CONTRACTOR SHALL APPROPRIATELY DISPOSE OF ALL MATERIAL.
2. ANY WATER THAT ACCUMULATES IN DISTURBED AREAS WILL BE COMPLETELY REMOVED FROM THE AREA BY PUMPING. THE PUMPED WATER WILL BE DISCHARGED THROUGH A PUMPED WATER FILTER BAG OR OTHER SEDIMENT CONTROL DEVICE AS DETAILED ON THE CONSTRUCTION PLANS. REFER TO THE CONSTRUCTION PLAN DETAILS SHEET FOR PUMPED WATER FILTER BAG DETAILS.
3. SEED AND VEGETATIVE MULCH DISTURBED AREAS WITHIN FOUR DAYS AFTER AREA HAS BEEN BACKFILLED OR RESTORE PAVEMENT/GRAVEL, AS APPROPRIATE.
4. AS APPLICABLE, AFTER A MINIMUM OF 70% VEGETATIVE PERMANENT STABILIZATION OF A UNIFORM COVERAGE CAPABLE OF RESISTING ACCELERATION EROSION AND SEDIMENTATION, REMOVE TEMPORARY CONTROL STRUCTURES. THIS MAY ALSO INCLUDE INLET PROTECTION.

PART 9: MAINTENANCE PROGRAM

IT WILL BE THE RESPONSIBILITY OF THE SELECTED CONTRACTOR TO MAINTAIN THE SITE IN ACCORDANCE WITH THE APPROVED SOIL EROSION AND SEDIMENT POLLUTION CONTROL PLAN AND NARRATIVE DURING THE TIME OF THE CONTRACT. ANY ADDITIONAL CHANGES RECOMMENDED OR REQUIRED BY THE CENTRE COUNTY CONSERVATION DISTRICT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ANY MATERIAL THAT HAS ACCUMULATED BEHIND AN EROSION CONTROL FACILITY SHALL BE REMOVED AND INCORPORATED INTO THE SITE. IF THE MATERIAL IS NOT ACCEPTABLE FOR INCORPORATION INTO THE SITE, IT SHALL BE REMOVED FROM THE SITE AND DISPOSED AT A DEP-APPROVED LOCATION.

AFTER CONSTRUCTION, THE OWNER, WILL BE RESPONSIBLE FOR MAINTENANCE TO MINIMIZE SOIL EROSION AND SEDIMENT POLLUTION, BY INSPECTING FOR AND CORRECTING ANY FUTURE EROSION PROBLEMS ON THE SITE.

REFER TO TEMPORARY CONTROL MEASURES, PART 6, AND THE PERMANENT CONTROL MEASURES, PART 7, FOR MAINTENANCE REQUIREMENTS OF THE SOIL EROSION AND SEDIMENT POLLUTION CONTROLS.

WRITTEN INSPECTION REPORTS

AFTER EACH PRECIPITATION EVENT OR WEEKLY IF NO PRECIPITATION OCCURRED DURING THAT WEEK, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL REPAIRS, REPLACEMENTS, AND/OR MAINTENANCE CONDUCTED ON EACH BEST MANAGEMENT PRACTICE (BMP).

PART 10: RECYCLING OR DISPOSAL OF MATERIALS

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND PROPERLY DISPOSE OF ANY WASTE MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE, INCLUDING, BUT NOT LIMITED TO, EXCESS SOIL AND ROCK AND PIPE MATERIALS.

SOIL DISPOSAL/STORAGE AREA WILL BE DETERMINED BY THE CONTRACTOR AND WILL REQUIRE APPROVAL FROM THE TIOGA COUNTY CONSERVATION DISTRICT AND/OR THE OWNER AND ENGINEER PRIOR TO USE.

THE RECYCLING OF WASTE MATERIALS, RATHER THAN DISPOSAL, IS REQUIRED WHERE FEASIBLE.



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SHEET NO.
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