LEBANON VANC BUILDING 17 NEW ENTRANCE

PROJECT #595-668 1700 S LINCOLN AVENUE LEBANON, PA 17042

PROJECT DIRECTORY

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CIVIL ENGINEER:

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HVAC CONTROL DIAGRAMS

ELECTRICAL DETAILS

ELECTRICAL DETAILS

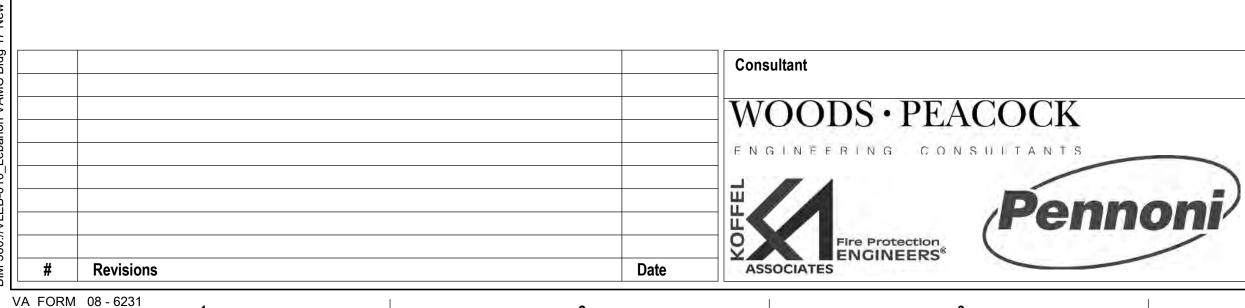
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VICINITY MAP



LOCATION MAP





Architect/Engineer of Record AE Works, LTD. 418 Beaver Street Sewickley, PA 15143 Phone: 412-287-7333 **AE WORKS** www.ae-works.com



OFFICE OF CONSTRUCTION AND FACILITIES **MANAGEMENT**

U.S. Department of Veterans Affairs

Drawing Title Project Title **Project Number** COVER SHEET BID DOCUMENTS NEW ENTRYWAY FOR BUILDING 17 Sprinkler Status **Drawing Number** Location 1700 S Lincoln Ave, Lebanon PA 17042 **FULLY SPRINKLERED** G-001 **Issue Date** Checked Drawn 10.26.2022 Checker AEW

BUILDING CODE REVIEW

Applicable Codes:

NFPA 10 – Portable Fire Extinguishers, 2018 Edition

NFPA 13 – Installation of Sprinkler Systems, 2019 Edition

NFPA 70 – National Electrical Code, 2020 Edition

NFPA 72 – National Fire Alarm Code, 2019 Edition

NFPA 80 – Fire Doors and Windows, 2019, Edition

NFPA 101 – Life Safety Code, 2021 Edition

NFPA 220 – Standard on Types of Building Construction, 2021 Edition

NFPA 221 – Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls, 2021 Edition

International Building Code, 2021 Edition

VA Fire Protection Design Manual, 12/2015

Architectural Barriers Act Accessibility Standard (ABAAS), 2015 Edition

Project Description:

VA Barrier Free Design Standard, Revised 11/01/2018

The project is a one-story entryway addition to Building 17 with a visitor drop off driveway with canopy covering. The floor area for the addition is 5,882 SF. The project scope includes a connection to the future Primary Care addition on the east side of the building and a future connection to a future building addition on the west side of the building.

Code Compliance:

Building Design:	Code Reference:	Summary:
Classification of Work: Addition	NFPA 101, Section 43.8.1.1	NFPA 101 is the primary code requirement for compliance. This building is classified as an Addition as it is attached to the existing Building 17. The addition shall follow the New Business Occupancy requirements of Chapter 38 of NFPA 101. The Addition will be a Nonseparated Occupancy from the existing Building 17. The building height, number of stories, and allowable area tables in IBC 2021 will be used to determine Construction Type based on the Use Group of the building.

Occupancy and Construction Type:

Building Design:	Code Reference:	Summary:
Use Group: Business Occupancy	NFPA 101, Section 6.1.11.1 VA Fire Protection Design Manual Appendix E	The entryway addition will expand the building entrance for accessibility and to connect the existing Building 17 to the 2 future primary care additions. There will be no services for patient treatment in the new addition. Therefore, the proposed use of the space is as a Business Occupancy. Refer to completed Appendix E form from VA Fire Protection Design Manual.
Separated Occupancies: No Separation Required	NFPA Sec tion 6.1.14.1	The existing Building 17 entrance, the new Primary Care addition, and the New Entryway addition are all Business Occupancies. There is no separation requirement between Business Occupancies and one will not be provided between the existing Building 17 and the New Entryway addition.
Construction and Compartmentation: 2-HourFire Barrier Wall Separation	NFPA 101, Section 8.2.3.1 NFPA 221, Section 7.2.1	NFPA 101, Section 8.2.1.3 requires a vertically aligned Fire Barrier Wall between different construction types in accordance with NFPA 221. NFPA 221, Section 7.2 requires Fire Barrier Walls to be continuous from exterior wall to an exterior wall, a floor below to a floor or roof above, from one fire barrier wall to another fire barrier wall, and through all concealed spaces. Chapter 7 does not require self-supported barrier walls. Section 7.2.5 allows for structural elements supporting Fire Barrier Walls to comply with NFPA 220, Section 5.1.2.2. The new addition will have a Fire Barrier Wall at the connection to the Primary Care Building to separate the different Construction Types
Construction Type: Type II (222) [IBC Type IB]	NFPA 220 IBC Section 601	Documentation provided by the VA states the Existing Building 17 is Construction Type 222. The Entryway addition will match the Building 17 Construction Type 222 to maintain code-compliant egress per NFPA Section 6.1.14.1.2. The building elements in this area are required to have a fire rating.
Sprinklers: Automatic Sprinkler System Provided	NFPA 101, Section 9.7.1.1	The automatic sprinkler system shall be in accordance with NFPA 13. The existing Building 17 has an automatic sprinkler system.
Hazard Classification: Ordinary Hazard	NFPA 101, Section 38.1.5	The contents of Business Occupancies shall be classified as Ordinary Hazard in accordance with Section 6.2.

Egress Requirements:

Consultant

Building Design:	Code Reference:	Summary:
Number of Exits per Story: Four (4) provided	NFPA 101, Section 38.2.4.1 NFPA 101, Section 7.4.1.1	A minimum of 2 exits are required. More than 2 exits have been provided. There are 4 exterior egress doors, with a total capacity of 1,040 occupants (208" clear width / 0.2 = 1,040)
Corridor Width Calculated: 12 inches minimum Corridor Width Provided: Open Floor Plan - No Corridors Stairway Capacity: 800 Occupants	NFPA 101, Section 38.2.3.2 NFPA 101, Table 7.3.3.1	The calculated corridor width of the new Entryway is 12 inches, based on 0.2 inches per occupant x 60 total occupants. Refer to Occupant Calculation chart for occupancy count. The stairway has capacity for 800 occupants, based on 240" wide stairs / 0.3 inches per occupant.
Dead Ends: 50 feet maximum	NFPA 101, Section 38.2.5.2.1	50 feet in buildings protected throughout by an approved, supervised, automatic sprinkler system in accordance with 9.7.1.1 (1)
Common Path of Travel: 100 feet maximum	NFPA 101, Section 38.2.5.3.1	100 feet in a building protected throughout by an approved, supervised, automatic sprinkler system in accordance with 9.7.1.1 (1).
Travel Distance to Exits: 300 feet maximum	NFPA 101, Section 38.2.6.3	300 feet in business occupancies protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7.

Fire and Smoke Protection:

Building Design:	Code Reference:	Summary:
General Corridors: No fire separation required	NFPA 101, Section 38.3.6.1	Corridors in a Business Occupancy are not required to have a fire rating within a tenant space nor are they required in a building protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1 (1).
Storage and Holding Rooms: Unrated Smoke Partition	NFPA 101, Sections 8.7.1.1 and 8.7.1.2	Storage and Holding rooms have a degree of hazard greater than normal to the general occupancy of the building. In new construction, where protection is provided with automatic extinguishing systems without fire-resistive separation, the space protected shall be enclosed with smoke partitions in accordance with Section 8.4
Electrical Rooms: Unrated	NFPA 70, Section 450.21	Individual transformers of 112.5 kVA or less are not required to be installed within a room with a fire-resistance rating. Therefore, the electrical rooms are unrated.
Doors in 2HR Walls and Partitions: Fire Barrier Walls = 1.5 HR	NFPA 221, Table 4.9.2	Doors shall be self closing. Door vision panels are not permitted in Fire Barrier Wall.
Doors in Smoke Partitions: Unrated	NFPA 101, Section 8.4.3.2	Doors shall be self closing and shall not include any louvers. Doors shall have smoke seals

NFPA 220 Table 4.1.1 Fire-Resistance Rating for Type II (222) [Typ...

	Type II (222) [IBC Type IB]
Building Element	Hours
Primary Structural Frame	1 (supporting roof only)
Bearing Walls – Exterior	1 (supporting roof only)
Bearing Walls – Interior	1 (supporting roof only)
Nonbearing Walls / Partitions – Exterior	1 (supporting roof only)
Nonbearing Walls / Partitions – Interior	1 (supporting roof only)
Floor Construction	2 (N/A)
Roof Construction	1

Table 4.9.2 Min Fire Protection Ratings for Opening Protectives in Fire-Resistance-Rated Assemblies

	Fire Resistance Rating	Fire Protection Rating		
Component	Walls and Partitions (hr)	Fire Door Assemblies (hr)	Fire Window Assemblies (hr)	
Fire Barrier	2	1.5	NP	
-lie baillei	1	0.75	0.75	

Table 6.2.1.1 Fire Extinguisher Size and Placement for Class A Hazards

<u> </u>			
Criteria	Ordinary Hazard Occupancy		
Min Rated Single Extinguiser	2-A		
Max Floor Area per Unit of A	1,500 SF		
Max Floor Area per Extinguisher	11,250 SF		
Max Travel Distance to Extinguisher	75 FT		

Energy Requirements:

Building Design:	Code Reference:	Summary:
Climate Zone: Zone 4	IECC, Figure C301.1	Lebanon is located in Climate Zone 4
R-Values: Roofs, walls, and floor slabs shall comply with the minimum values noted.	IECC, Table C402.1.3	Roof = R-30 ci Metal Framed Walls = R-13 + R-7.5 ci Wall, Below Grade = R-7.5 ci Unheated Slab = R-10 for 24"

Occupant Load:

Sales Area on Street Floor

Function of Space	Floor Area in SF per Occupant
Accessory Storage Areas	500 Gross
Business Use Concentrated	150 Gross 50 Gross
Mercantile Use	

Room / Space	Floor Area (SF) / Load	Occupant Load
Screening Vestibule 102	851 / 50	18
Storage 102A	23 / 500	1
Storage 102B	23 / 500	1
Vendor Area 103	218 / 30	8
Vendor Area 104	230 / 30	8
Main Reception 105	155 / 150	2
Connecting Corridor 106A	1390 / 15	10
Connecting Corridor 106B	1381 / 15	10
Electrical Closet 107	106 / 500	1
Janitor Closet 108	109 / 500	1
Total Entryway Occupant Load	<u> </u>	60

Revisions Date

VA FORM 08 - 6231



AE WORKS.

Architect/Engineer of Record

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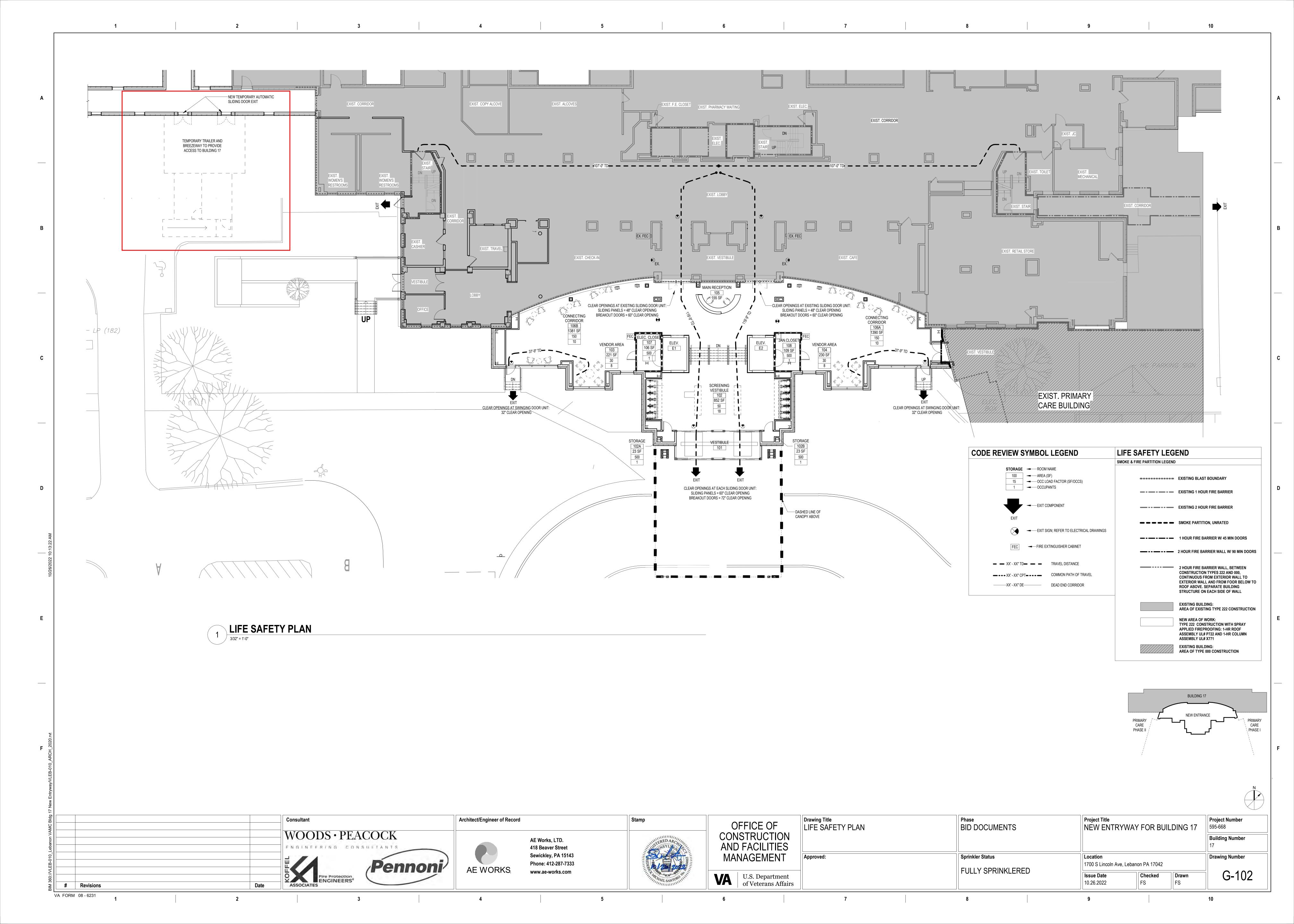


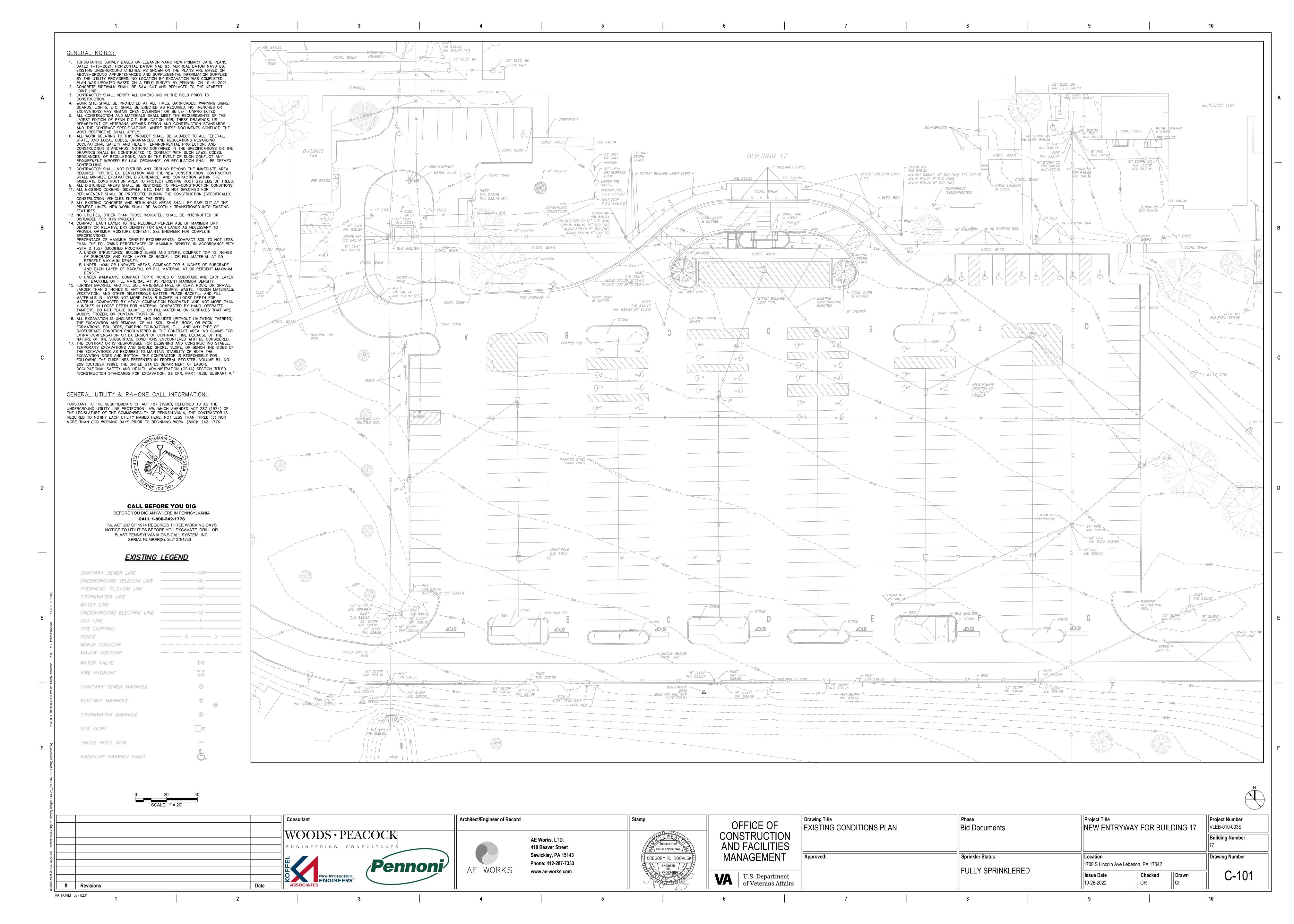
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Approved:	Sprinkler Status	Location 1700 S Lincoln Ave, Lebanon PA 17042		
	FULLY SPRINKLERED	Issue Date	Checked	Draw

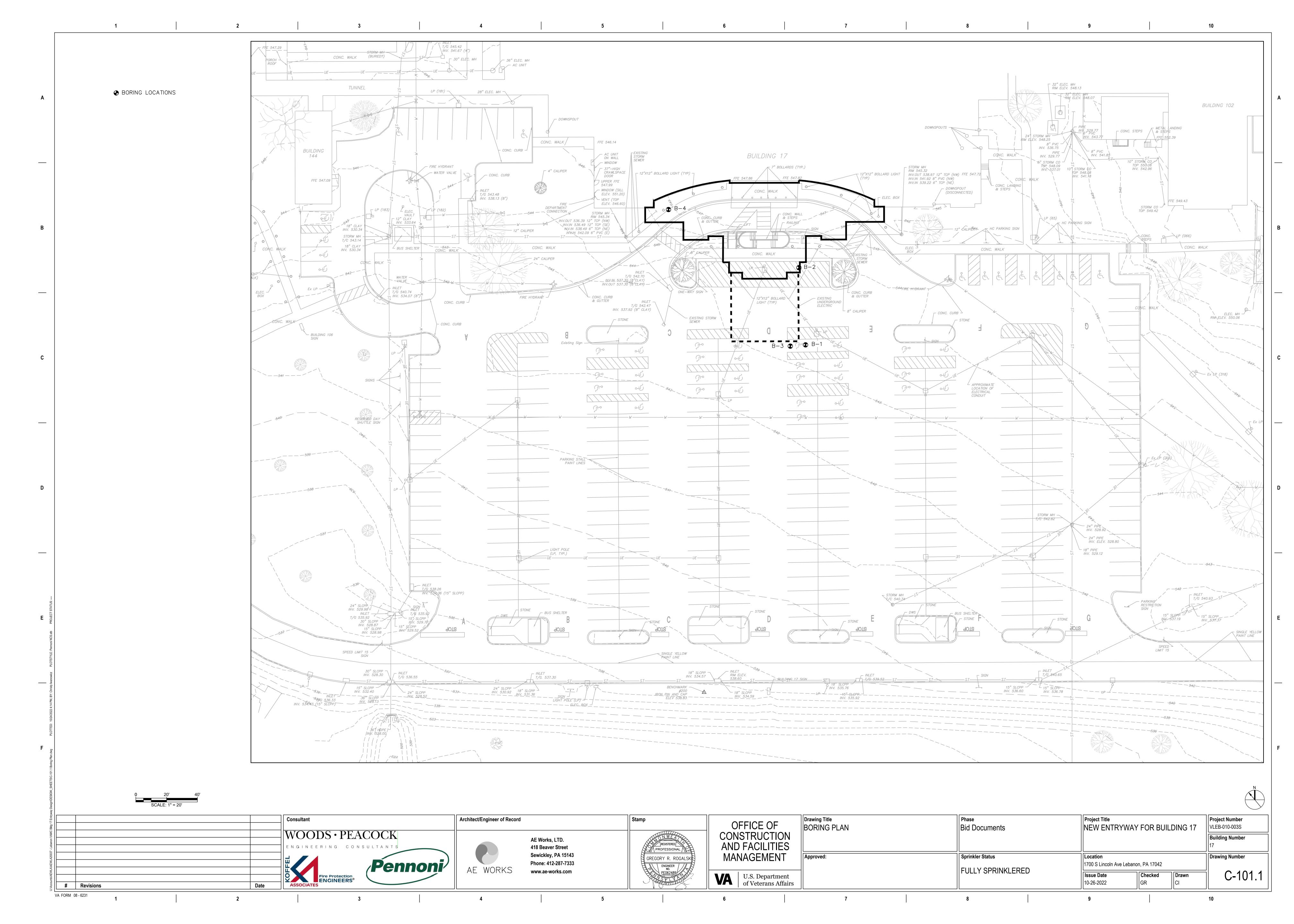
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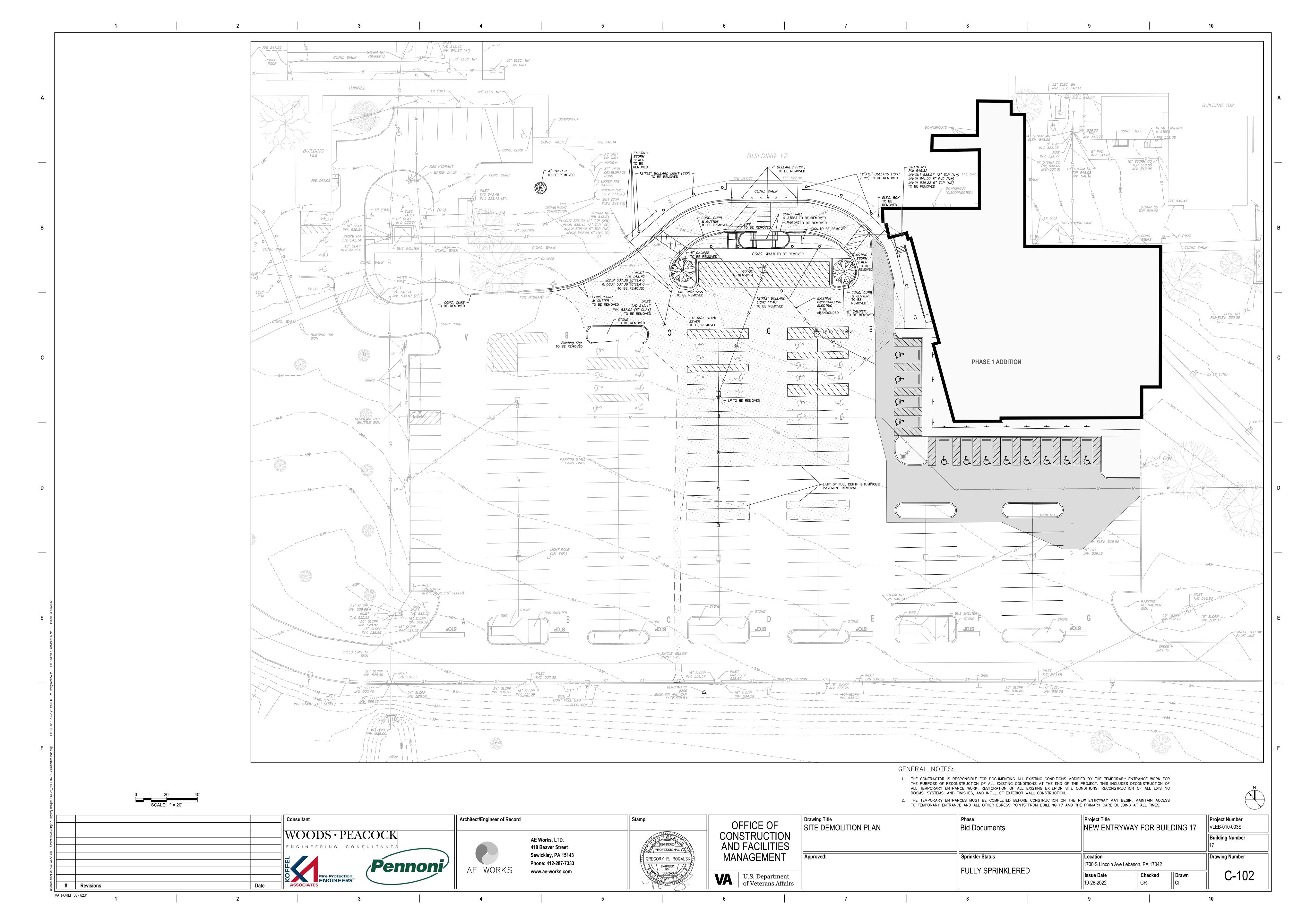
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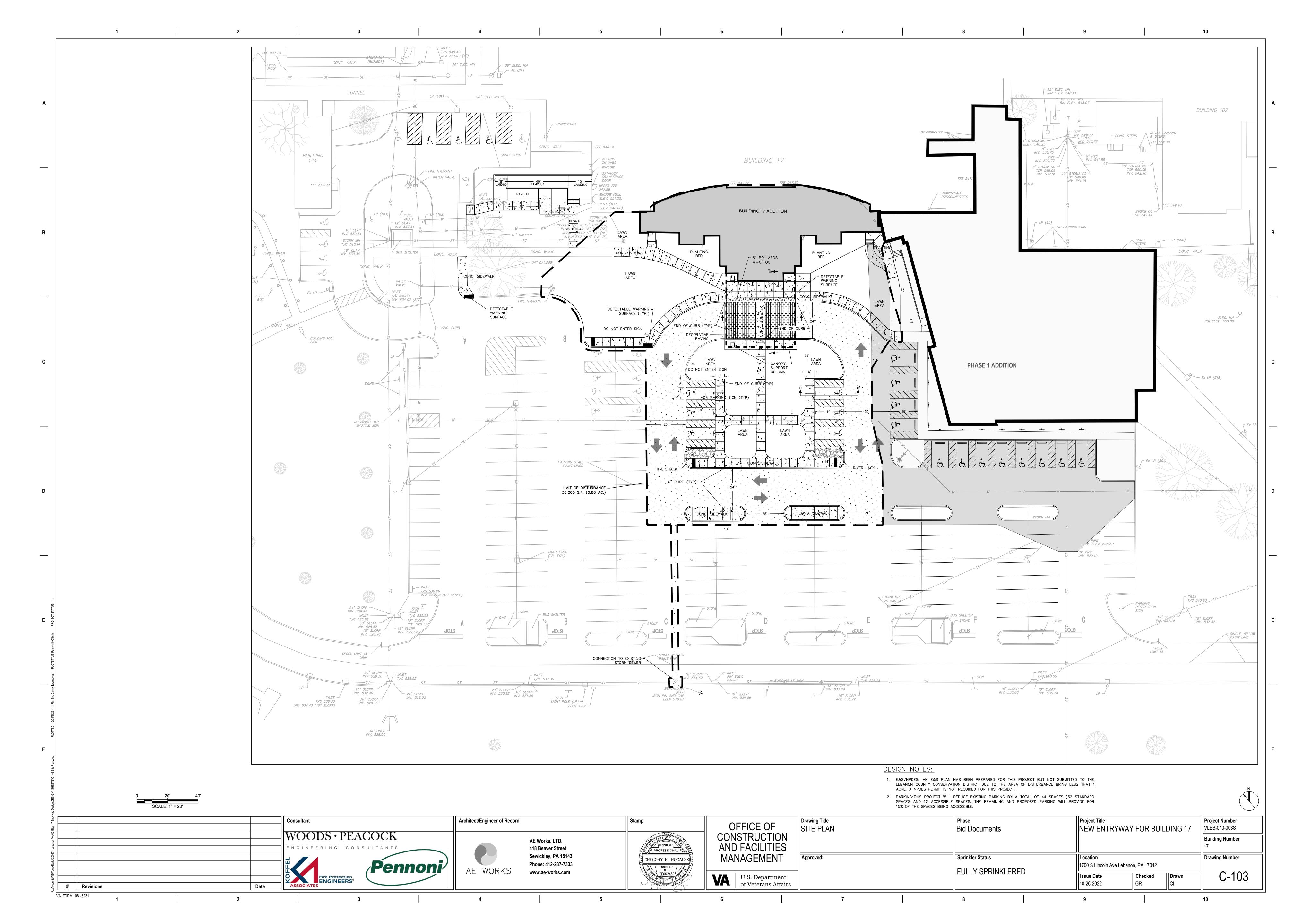
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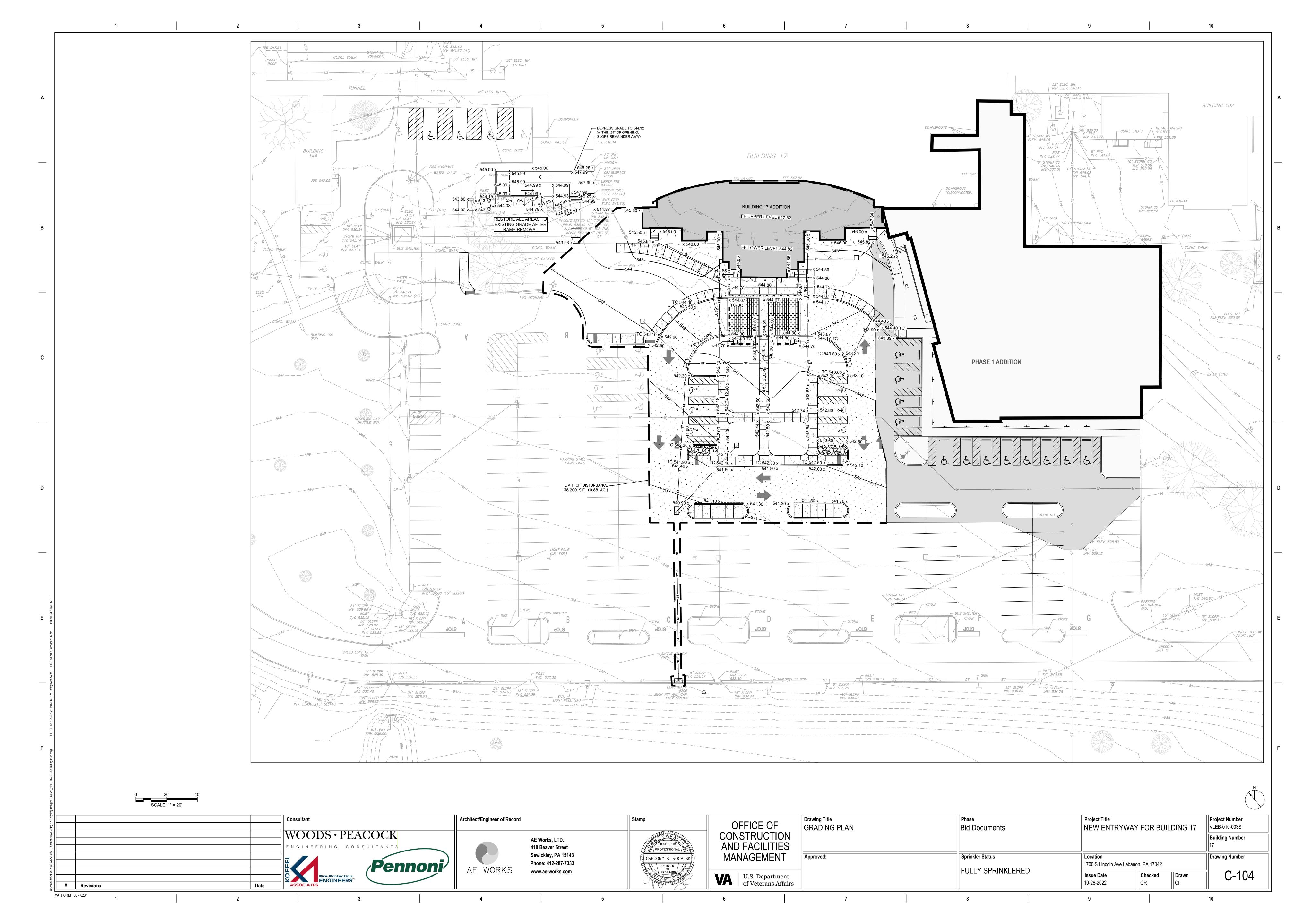


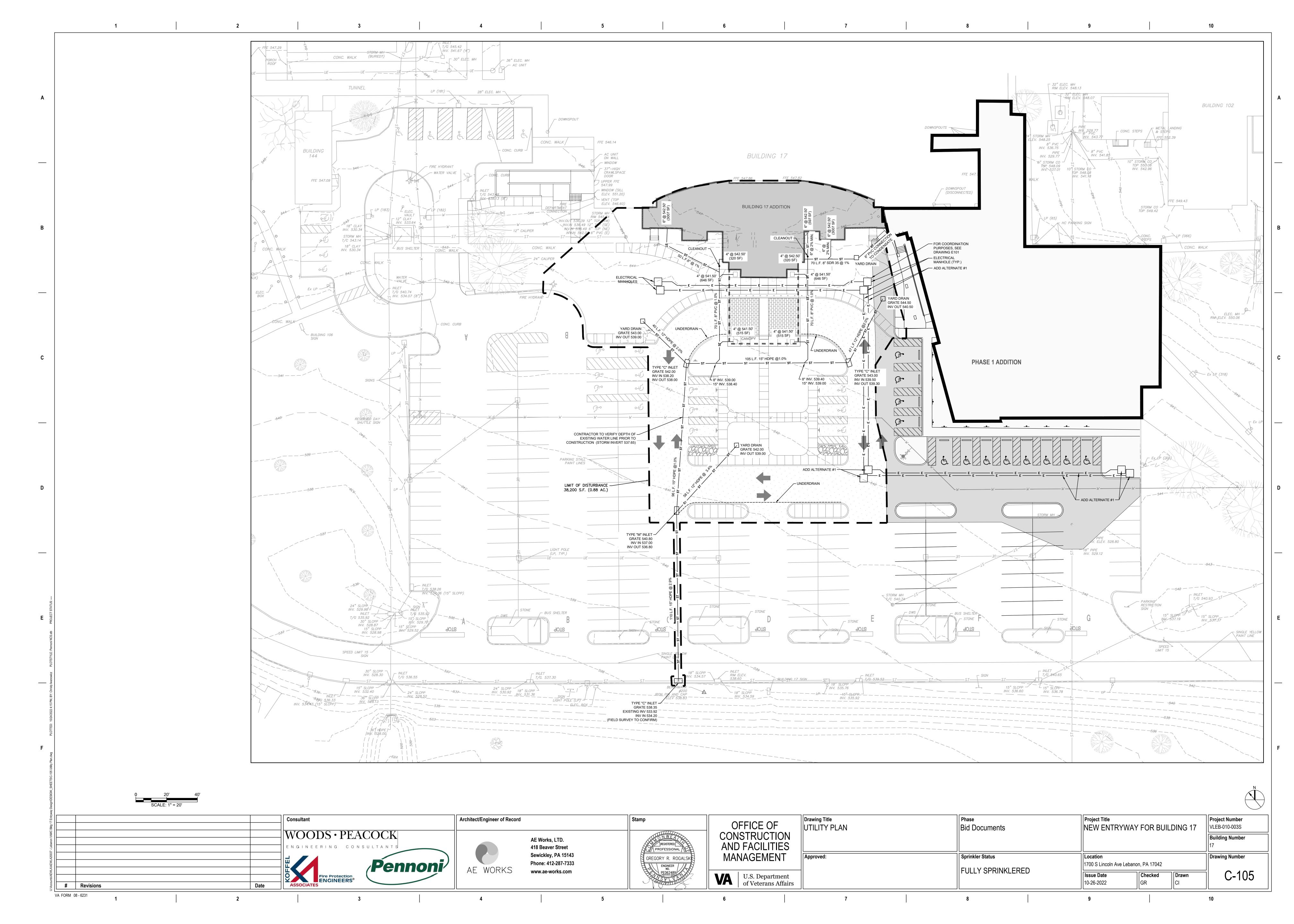


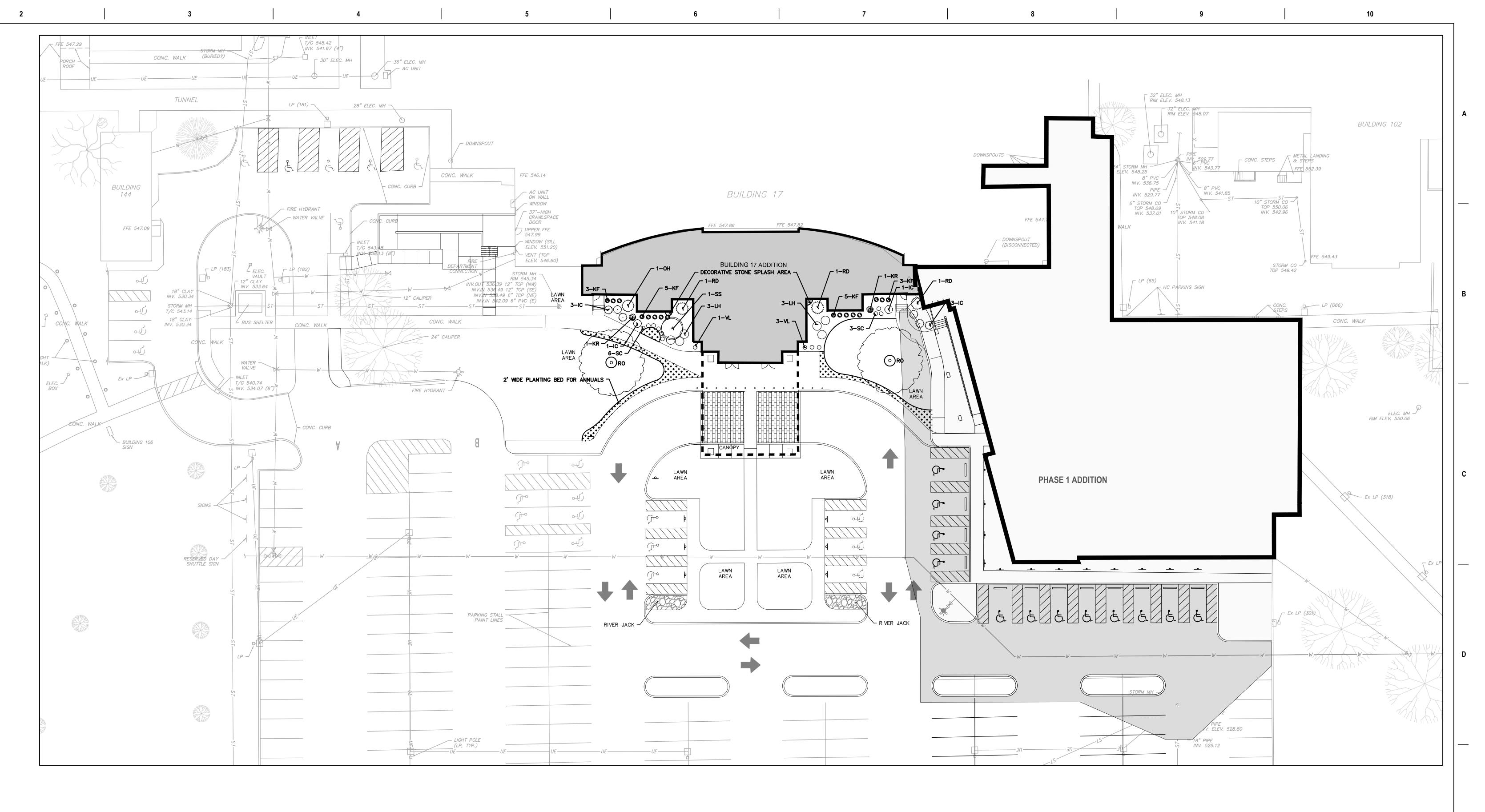






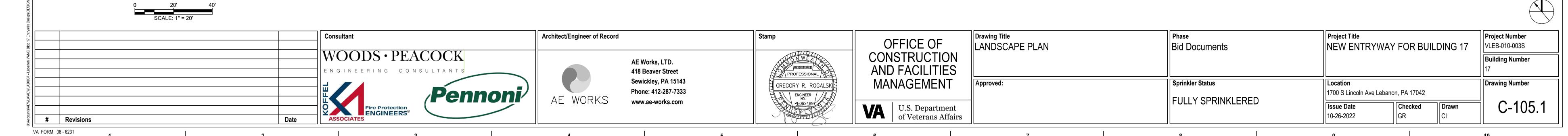


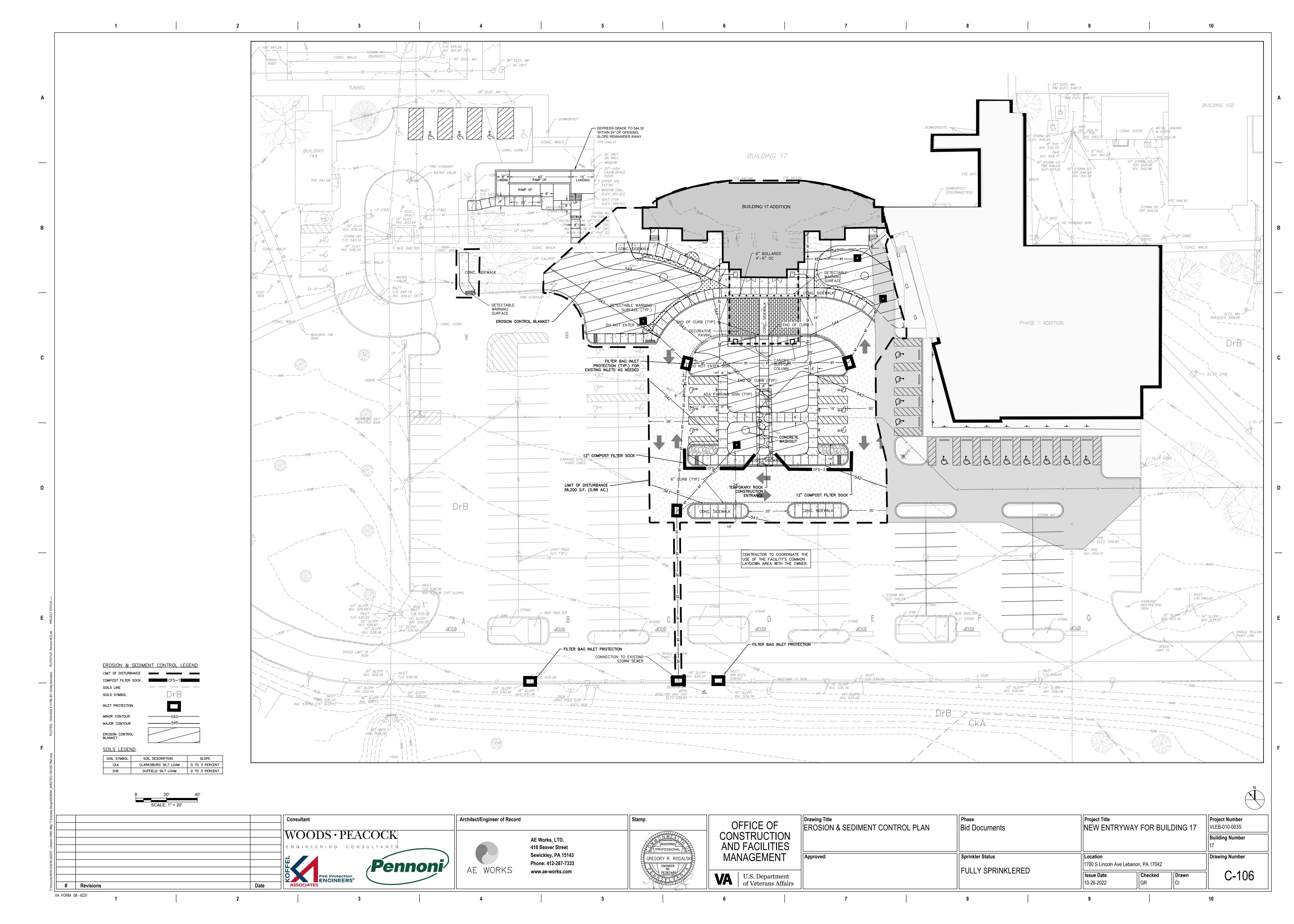




	DI ANT COLIEDIUE						
	PLANT SCHEDULE						
QTY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION		
LARGE	SHADE TRE	E					
2	RO	QUERCUS RUBRA	RED OAK	2 1/2" CAL.	B&B		
DECIDU	OUS SHRU	BS					
1	SS	CLETHRA ALNIFOLIA 'COMPACTA'	SUMMERSWEET	3'	CONT.		
2	KR	ROSA 'KNOCKOUT'	KNOCKOUT ROSE	2'	CONT.		
1	ОН	HYDRANGEA QUERCIFOLIA 'PEE WEE'	OAKLEAF HYDRANGEA	3'	CONT.		
CONIFE	CONIFEROUS SHRUBS						
3	RO	RHODODENDRON 'HINO CRIMSON	RHODODENDRON	3'	CONT.		
8	IC	ILEX CRENATA 'HELLERI'	HELLERI JAPANESE HOLLY	2'	CONT.		
6	LH	ITEA VIRGINICA 'LITTLE HENRY'	SWEETSPIRE	2'	CONT.		
ORNAME	ORNAMENTAL GRASS						
16	KF	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FORESTER REED GRRASS	#3	CONT.		
GROUN	IDCOVER				•		
4	VL	LIRIOPE MUSCARI VARIEGATA	VARIEGATED LIRIOPE	1 QT.	CONT.		
9	SC	SEDUM SPECTABILE 'NEON'	NEON STONECROP	1 QT.	CONT.		

PERMANENT SEEDING TO CONSIST OF 30% FINE FESCUE, 50% KENTUCKY BLUEGRASS AND 20% PERENNIAL RYEGRASS SEEDED AT A RATE OF 7 LB/1,000 S.F.





<u>STANDARD EROSION AND SEDIMENT CONTROL PLAN NOTES:</u> ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION. 2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&SC PLAN PREPARER, AND A REPRESENTATIVE FROM THE LOCAL COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING. 3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED BY THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP, EXCEPT WHERE NOTED. 5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE 6. CLEARING AND GRUBBING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE FOLLOWING CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING AND GRUBBING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&SC BMP'S SPECIFIED BY THE SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&SC PLAN. 7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN. 8. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL/IMPORT OF ANY EXCESS FILL MATERIAL OR TOPSOIL AS WELL AS ENSURING THE SITE(S) RECEIVING OR EXPORTING MATERIAL HAS AN APPROVED EROSION AND SEDIMENT CONTROL PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102 AND/OR 9. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER, AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLANS AND/OR DETAIL SHEETS. 10. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN. 11. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT. 12. ALL THE ANTICIPATED WASTE SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT PA 25 CODE 260.1 ET.SEQ., 271.1 AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGE AT THE SITE. 13. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN, APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT, FULLY 14. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ONTO THE SITE IS CLEAN FILL. FORM FP001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO 15. UNDERGROUND UTILITIES CUTTING THROUGH AN ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING, ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA UNTIL SUCH RESTORATION IS 16. ALL PUMPING OF WATER FROM ANY WORK AREA OVER UNDISTURBED VEGETATED AREAS SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS 17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN A MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER. 18. EARTH DISTURBANCE SHALL PROCEED IN THE FOLLOWING MANNER . MINIMIZE THE EXTENT AND DURATION OF EARTH DISTURBANCE. MINIMIZE SOIL COMPACTION AND ENVIRONMENTAL IMPACT. MAXIMIZE PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION.
USE TEMPORARY COVER FOR ALL DISTURBED AREAS THAT WILL BE DISTURBED AGAIN PRIOR TO COMPLETION.
UTILIZE OTHER MEASURES OR CONTROLS THAT PREVENT OR MINIMIZE THE GENERATION OF INCREASED STORMWATER RUNOFF. 18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. 19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES (6 TO 12 INCHES ON COMPACTED SOILS) PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL. 20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. 21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 6 INCHES IN THICKNESS. 22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. 23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. 24. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE 25. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISH GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN. 26. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT. THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS. 27. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR 28. E&S BMPS SHALL REMAIN FUNCTIONAL UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.

VA FORM 08 - 6231

29. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS. 30. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST

CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATION SEASON. 31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.

32. TO MINIMIZE THE EXTENT AND DURATION OF EARTH DISTURBANCE, A SEQUENCE OF CONSTRUCTION FOR EARTHMOVING ACTIVITIES IS PROVIDED ON THE PLAN AND WAS FORMULATED TO EXPOSE ONLY THE MINIMAL AREA NECESSARY TO COMPLETE THIS PROJECT.

33. TO MINIMIZE THE AMOUNT OF SOIL COMPACTION OCCURRING ON SITE, EARTHMOVING ACTIVITIES WILL DISTURB ONLY THE AREA NECESSARY TO COMPLETE THIS PORTION OF THE OVERALL PROJECT. ALL AREAS THAT WILL BE DISTURBED AS PART OF THIS E&S PLAN WILL BE RETURNED TO A STATE THAT MIMICS THE SOIL CONDITIONS THAT EXISTED PRIOR TO THE PROPOSED EARTH MOVING ACTIVITIES. THIS WILL BE ACCOMPLISHED BY TILLING/RIPPING COMPACTED SOILS PRIOR TO THE PLACEMENT OF THE TOP SOIL. ALSO, ALL DISTURBED AREA WILL BE SEEDED WITH VEGETATION THAT IS NATIVE TO THIS AREA HELPING TO REDUCE THE NEEDS FOR HERBICIDES, PESTICIDES, AND FERTILIZERS.

34. MEASURES OR CONTROLS USED DURING CONSTRUCTION TO PREVENT OR MINIMIZE THE INCREASED STORMWATER RUNOFF ARE AS FOLLOWS: -RUNOFF THAT FILTERS THROUGH THE SILT SOCK WILL BE ALLOWED TO SHEET FLOW ACROSS THE GROUND BEFORE HAND TO ALLOW FOR SOME RUNOFF TO

35. SITE CONTRACTOR WILL NEED TO TAKE GREAT CARE AS TO NOT TRACK MUD ON TO PUBLIC STREETS. IF SO, THEY WILL BE REQUIRED TO CLEAN THE MUD OFF THE PUBLIC STREETS IMMEDIATELY.

CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE . ALL FILL IMPORTED TO THE PROJECT SITE MUST MEET PADEP CLEAN FILL STANDARDS. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO PERFORM ENVIRONMENTAL DUE DILIGENCE TO ENSURE IMPORTED FILL MEETS THE CLEAN FILL REQUIREMENTS. THE CONTRACTOR SHALL USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT QUALIFIES AS CLEAN FILL

2. CLEAN FILL, AS DEFINED BY PADEP, IS UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THIS TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. ENVIRONMENTAL DUE DILIGENCE INVOLVES PERFORMING INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, AND REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

THE CONTRACTOR IS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL. WHENEVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL DISPOSAL OF THE MATERIALS WILL BE THE RESPONSIBILITY OF THE OWNER. ALL WASTE SHALL BE DISPOSED OF IN A LEGAL MANNER IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AND ANY LOCAL AND STATE MANDATES. NO BUILDING MATERIALS OR BUILDING WASTES SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE.

2. IF ANY ADDITIONAL WASTE STOCKPILES OUTSIDE OF THE LIMIT OF DISTURBANCE BE REQUIRED, A REVISION TO THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE COMPLETED AND SUBMITTED TO THE APPLICABLE REVIEW AGENCY. IF AN ADDITIONAL OFFSITE WASTE AREA IS REQUIRED, THE CONTRACTOR MAY NEED TO DEVELOP A SEPARATE E&S PLAN OR REVISE AN EXISTING PLAN. ANY NEWLY DEVELOPED WASTE AREA AND SUBSEQUENT REVISED EROSION AND SEDIMENTATION CONTROL PLAN(S) MUST BE APPROVED BY THE APPLICABLE REVIEWING AGENCY.

SEDIMENT REMOVED FROM BMPS IN ACCORDANCE WITH THE MAINTENANCE PROGRAM AND GENERAL NOTES SHALL BE STOCKPILED AT AN APPROVED STOCKPILE AREA OR INCORPORATED INTO THE OVERALL SITE GRADING WITHIN THE LIMIT OF WORK. THIS APPROACH WILL ENSURE THAT THE PLACEMENT OR GRADING OF SEDIMENTS WILL BE UPSLOPE OF SEDIMENTATION CONTROL BMPS.

MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL FACILITIES

RESPONSIBILITY
THE PRIME SITE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTENANCE OF <u>ALL</u> BMP'S FOR THE DURATION OF CONSTRUCTION AND UNTIL STABILIZATION HAS OCCURRED. UPON STABILIZATION, THE PRIME SITE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TEMPORARY BMP'S. BEFORE ANY TEMPORARY EROSION CONTROL STRUCTURES ARE REMOVED, A VEGETATIVE COVERAGE WITH A DENSITY OF 70% ACROSS THE DISTURBED AREAS MUST BE ACHIEVED. UPON FINAL COMPLETION, THE FACILITY AND LONG-TERM BMP'S WILL BE MAINTAINED BY THE OWNER.

FACILITY INSPECTION SCHEDULE TEMPORARY E&SC BMP'S MUST BE INSPECTED ON A WEEKLY SCHEDULE AND AFTER EACH MEASURABLE RUNOFF EVENT. E&SC BMP'S NEEDING REPAIR OR MAINTENANCE MUST BE ATTENDED TO IMMEDIATELY. THE CONTRACTOR MUST MAINTAIN A WRITTEN REPORT AT THE PROJECT SITE DOCUMENTING EACH INSPECTION AND ALL REPAIRS OR REPLACEMENTS AND MAINTENANCE ACTIVITIES. ACCUMULATED SEDIMENT THAT IS REMOVED FROM CONTROL STRUCTURES WILL BE REDISTRIBUTED ONTO THE TEMPORARY STOCKPILES. AN ADEQUATE SUPPLY OF ADDITIONAL EROSION AND SEDIMENTATION CONTROL MATERIALS SHALL BE STOCKPILED ON SITE TO BE USED IN THE EVENT THAT EMERGENCY REPAIRS ARE THE PRIME SITE CONTRACTOR SHALL INSPECT BOTH TEMPORARY AND PERMANENT BMP'S ON A WEEKLY BASIS UNTIL STABILIZATION IS ACHIEVED. AT THIS POINT, THE OWNER SHALL COMMENCE WEEKLY INSPECTIONS OF THE PERMANENT FACILITIES. IN ADDITION TO THIS WEEKLY SCHEDULE, EACH FACILITY SHALL BE INSPECTED AFTER <u>EACH</u> MEASURABLE RUNOFF EVENT. PERMANENT BMP'S NEEDING REPAIR OR MAINTENANCE MUST BE ADDRESSED IMMEDIATELY.

BMP MAINTENANCE WILL BE PERFORMED IN ACCORDANCE WITH THE INDIVIDUAL DEVICE SCHEDULES AS SHOWN IN THE STANDARD CONSTRUCTION DETAILS.

TEMPORARY SEEDING WILL BE USED AS NEEDED. TEMPORARY SEED AND MULCH WILL BE APPLIED IN ALL AREAS WHERE ACTIVITIES CEASE FOR FOUR (4) DAYS OR IF ANY DISTURBED AREA ACHIEVES FINAL GRADE DURING AN UNFAVORABLE SEEDING SEASON. PERMANENT SEED AND MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS AS SOON AS PRACTICAL FOLLOWING COMPLETION OF FINE GRADING.

TEMPORARY SEED MIXTURE					
FORMULA AND SPECIES	% BY		IMUM % GERMINATION		SEEDING RATI LB/1000 S.Y.
	WIASS	FORTT	GERMINATION	SLLD	LB/1000 3.1.
FORMULA B					20.0 TOTA
ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	100	98	90	0.15	20.0
PERMANENT SEED MIXTURE					
FORMULA AND SPECIES	% BY	MIN	IMUM %	WEED	SEEDING RAT
	MASS	PURITY	GERMINATION	SEED	LB/1000 S.Y.
FORMULA E					20.0 TOTA
PERENNIAL RYEGRASS MIXTURE	20	98	90	0.15	8.0
(LOLIUM PERENNE). A COMBINATION OF					
IMPROVED CERTIFIED VARIETIES WITH NO					
ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.					
TOTAL REGRASS COMPONENT.					
CREEPING RED FESCUE OR	30	98	85	0.15	12.0
CHEWINGS FESCUE					
KENTUCKY BLUEGRASS MIXTURE	50	98	80	0.20	22.0
(POA PRATENSIS). A COMBINATION OF					
IMPROVED CERTIFIED VARIETIES WITH NO					
ONE VARIETY EXCEEDING 25% IF THE TOTAL					

ONE VARIETY EXCEEDING 25% IF THE TOTAL

SOIL AMENDMENTS INCLUDING LIME AND FERTILIZER SHALL BE APPLIED AS FOLLOWS:

PREPARE AREAS FOR PERMANENT SEEDING BY UNIFORMLY APPLYING SUPPLEMENTS. BLEND THE INITIAL SOIL SUPPLEMENTS INTO THE SOIL AT LEAST 2 INCHES, ON TOPSOILED AREAS, BY RAKING, DISHING, HARROWING, OR OTHER ACCEPTABLE METHODS. BLEND THE SUPPLEMENTS INTO THE SOIL DURING TILLAGE OPERATIONS. APPLY SLOW—RELEASE NITROGEN FERTILIZER TO THE SURFACE OF FORMULA B, D, L, AND W SEEDED AREAS BEFORE PROJECT COMPLETION. DO NOT APPLY SLOW—RELEASE NITROGEN FERTILIZER SUPPLEMENT TO FORMULA C SEEDED AREAS. APPLY SOIL SUPPLEMENTS AS FOLLOWS, UNLESS OTHERWISE

PULVERIZED AGRICULTURAL LIMESTONE — 800 LB/1000 YD2

• 10-20-20 ANALYSIS COMMERCIAL FERTILIZER - 140 LB/1000 YD2 • 38-0-0 UREAFORM FERTILIZER - 50 LB/1000 YD2

• 32-0-0 TO 38-0-0 SULFUR COATED UREA FERTILIZER - 59 LB/1000 YD2 TO 50 LB/1000 YD2 AS DIRECTED,

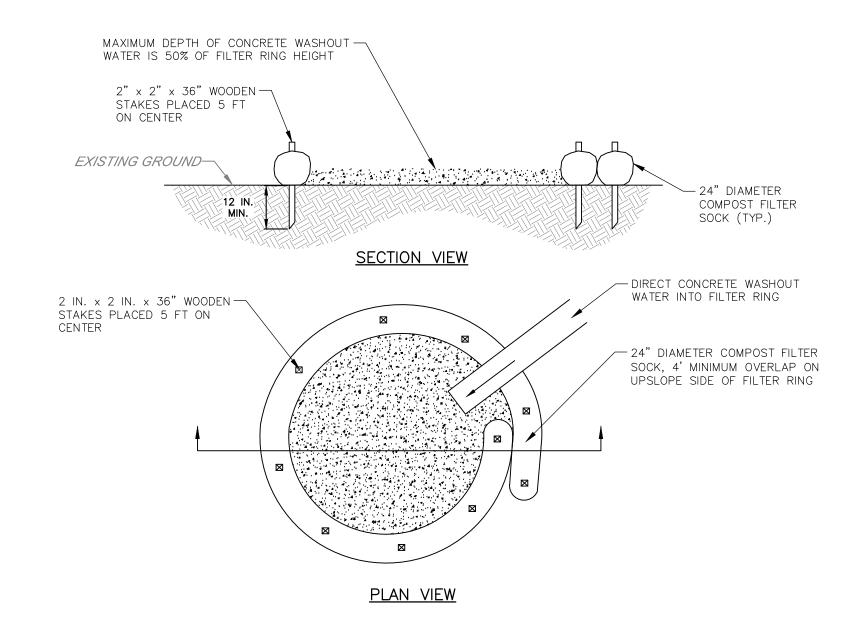
• 31-0-0 IBDU FERTILIZER - 61 LB/1000 YD2

MULCH MATERIAL SHALL BE HAY OR STRAW AS DEFINED IN SECTION 805 OF PENNDOT PUBLICATION 408 AND SHALL BE FREE FROM FOREIGN MATERIAL, COURSE STEMS, ANY SUBSTANCE TOXIC TO PLANT GROWTH, AND FREE FROM MATURE SEED BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS, BOTH AS DEFINED BY LAW. PLACE MULCH IMMEDIATELY AFTER SEEDING IN A UNIFORM CONTINUOUS BLANKET AT A MINIMUM RAE OF 1,200 POUNDS PER SQUARE YARD (3 TONS PER ACRE).

TEMPORARY SEEDING WILL BE USED AS NEEDED. TEMPORARY SEED AND MULCH WILL BE APPLIED IN ALL AREAS WHERE ACTIVITIES CEASE FOR FOUR (4) DAYS OR IF ANY DISTURBED AREA ACHIEVES FINAL GRADE DURING AN UNFAVORABLE SEEDING SEASON. PERMANENT SEED AND MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS AS SOON AS PRACTICAL FOLLOWING COMPLETION OF FINE GRADING.

SOIL LIMITATIONS AND RESOLUTIONS

SOIL NAME, SYMBOL	CUTBANKS CAVE	CORROSIVE TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE SEASONAL HIGH	HYDRIC/HYDRIC INCLUSIONS	LOW STRENGTH / LANDSLIDE PRONE	SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK - SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
CLARSKBURG SILT LOAM, CKA	Х	c/s		Х		Х	Х	Х	Х	Х	Х	Х	Х	Х		Х
DUFFIELD SILT LOAM, DfB	Х	c/s		Х			Х	Х	Х	х	Х		Х	Х	·	Х

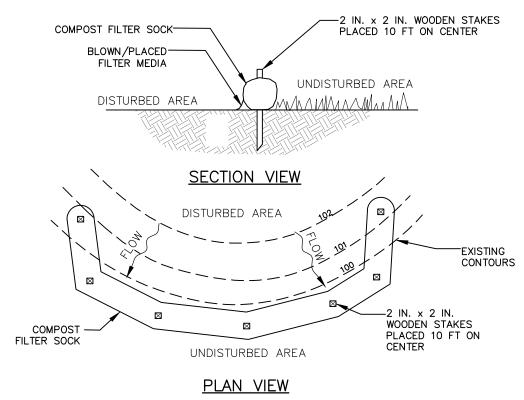


A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS. INSTALL OF FLAT GRADE FOR OPTIMUM PERFORMANCE. COMPOST SOCKS SHALL BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND THE PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE DOCK LOCATED AT THE UPSLOPE CORNER CARE SHALL BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER FILTER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT. MAINTENANCE: ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 50% CAPACITY. GEOMEMBRANE

NOT TO SCALE

CONCRETE WASHOUT

SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.



SOCK NO. | DIAMETER | LOCATION | SLOPE PERCENT | SLOPE LENGTH ABOVE BARRIER CFS-1 12" | CFS-2 4% 180'

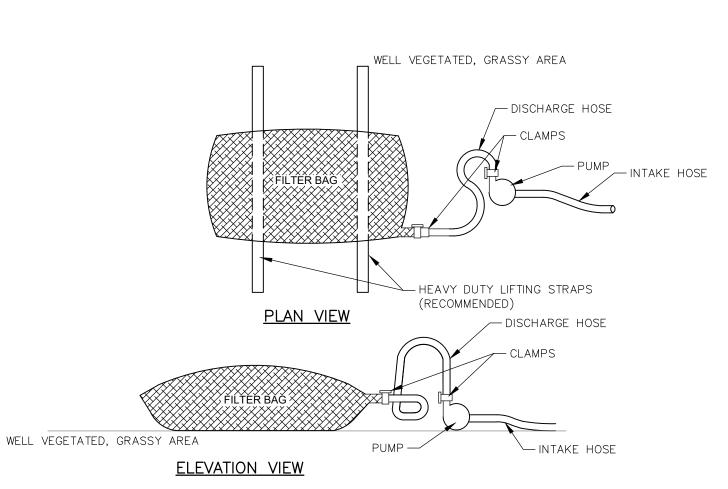
NOTES: SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE

SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK NOT TO SCALE

SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.



<u>NOTES:</u> LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSÉ THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL

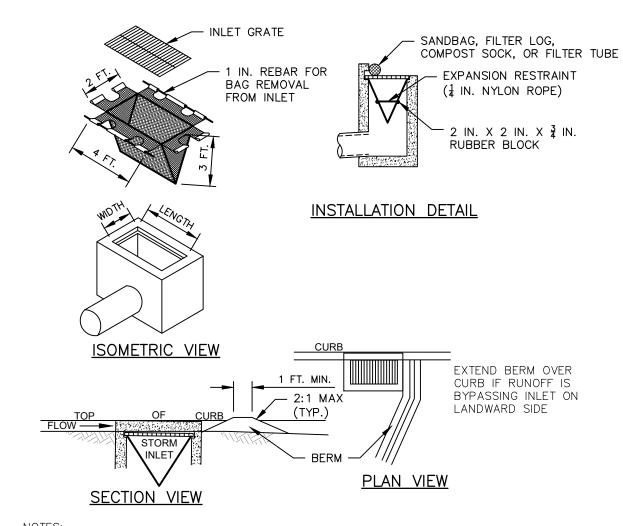
UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE

PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

STANDARD CONSTRUCTION DETAIL #34-16 PUMPED WATER FILTER BAG NOT TO SCALE



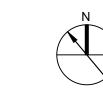
<u>NOTES:</u> MAXIMUM DRAINAGE AREA = 1/2 ACRE. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS. ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM. THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS. A

MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50

LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS. STANDARD CONSTRUCTION DETAIL #4-15 FILTER BAG INLET PROTECTION - TYPE C INLET NOT TO SCALE

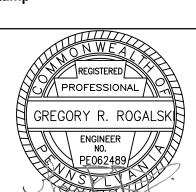


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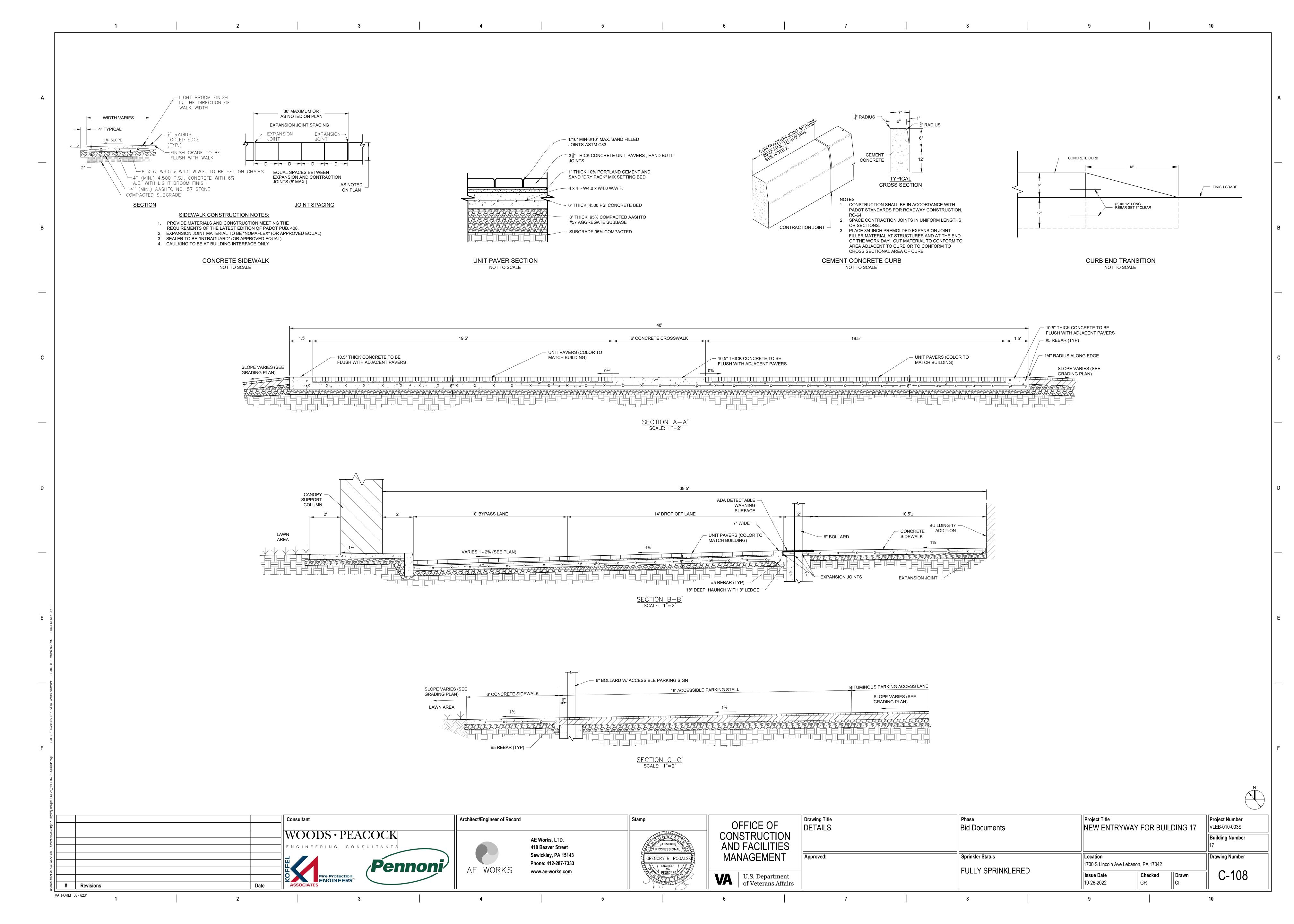
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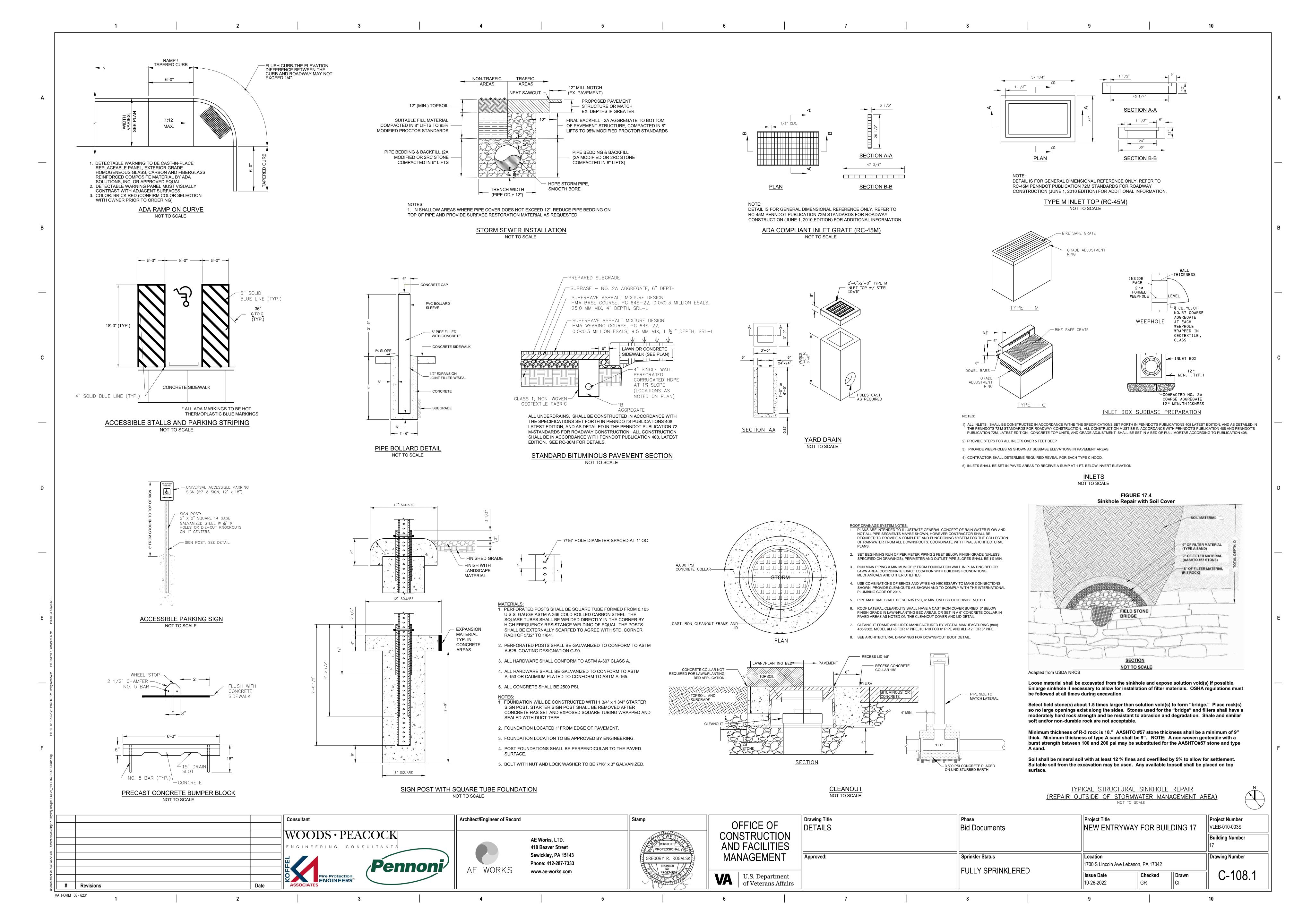
CTION .ITIES	Drawing Title EROSION & SEDIMENT CONTROL PLAN
1ENT	Approved:

Phase Bid Documents	Project Title NEW ENTR
Sprinkler Status	Location 1700 S Lincoln Av
FULLY SPRINKLERED	Issue Date

Project Title NEW ENTRYWAY	Project Number VLEB-010-003S		
			Building Number
Location 1700 S Lincoln Ave Lebano	n, PA 17042		Drawing Number
Issue Date 10-26-2022	Checked GR	Drawn Cl	C-106.2

U.S. Department of Veterans Affairs





STRUCTURAL NOTES

CONSTRUCTION MUST COMPLY WITH, AND DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH, THE PROJECT SPECIFICATIONS AND THE NOTES BELOW. IF THERE ARE ANY PERCEIVED CONFLICTS BETWEEN THE SPECIFICATIONS AND THE NOTES OR THE DRAWINGS, THE CONTRACTOR MUST SUBMIT A WRITTEN REQUEST FOR CLARIFICATION TO THE C ONTRACTING OFFICER.

A. CODES, STANDARDS, AND REFERENCES

- BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC)-2021.
- 2. CONCRETE CODES: SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301-20) AND BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19). REINFORCING DETAILS MUST
- CONFORM TO THE ACI DETAILING MANUAL AND CRSI STANDARDS.
- STEEL CODES: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-16). STRUCTURAL WELDING CODE - STEEL (AWS D1.1-2010).
- 4. MASONRY CODE: BUILDING CODE AND SPECIFICATION FOR MASONRY STRUCTURES (TMS 402/TMS
- OTHER REFERENCE STANDARDS:
- a. ASCE/SEI 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER
- STRUCTURES.
- PG-18-3 DESIGN AND CONSTRUCTION PROCEDURES (JULY 1, 2021). c. PG-18-10 DESIGN MANUALS:
- PHYSICAL SECURITY AND RESILIENCY DESIGN MANUAL (OCTOBER 1, 2020). STRUCTURAL - MOST BUILDING TYPES (FEBRUARY 1, 2014).
- H-18-8 SEISMIC DESIGN HANDBOOK (NOVEMBER 1, 2019, REVISED MAY 1, 2020).

B. OCCUPANCY

- RISK CATEGORY: II
- C. ROOF DEAD LOAD
- STRUCTURE: SELF-WEIGHT.
- FLAT ROOF: 20 PSF. SLOPED ROOF: 20 PSF.

ELEVATOR SHAFT ROOF: 20 PSF.

D. LIVE LOADS

- FLOOR LIVE LOAD
- ENTRYWAY AND LOBBY: 100 PSF. b. STAIRS: 100 PSF.
- c. CONSTRUCTION: 50 PSF. ROOF LIVE LOAD
- FLAT ROOF: 20 PSF (PLUS WEIGHT OF EQUIPMENT).
- b. SLOPED ROOF: 20 PSF.
- c. ELEVATOR SHAFT: 20 PSF.
- LATERAL LIVE LOADS (INTERIOR ONLY)
- INTERIOR WALLS & PARTITIONS: 5 PSF (MINIMUM).

E. SNOW LOADS

- GROUND SNOW LOAD (Pg): 30 PSF
- FLAT ROOF SNOW LOAD (Pf): 21 PSF.
- SLOPED ROOF SNOW LOAD (Ps.): 21 PSF. MINIMUM SNOW LOAD (Pm): 20 PSF
- SNOW IMPORTANCE FACTOR (Is): 1.0.
- SNOW EXPOSURE FACTOR (Ce): 1.0. SNOW LOAD THERMAL FACTOR (Ct): 1.0.
- 8. IN ADDITION TO THE UNIFORM ROOF SNOW LOAD STATED ABOVE, DRIFTING SNOW HAS BEEN EVALUATED. WHERE DRIFTING SNOW GOVERNS OVER THE FLAT ROOF LIVE LOAD STATED ABOVE, MAXIMUM DRIFT LOAD IS 30 PSF

F. WIND LOADS

- BASIC WIND SPEED:
- a. ULTIMATE DESIGN WIND SPEED, Vult, (3-SECOND GUST): 113 MPH NOMINAL DESIGN WIND SPEED, Vasd: 87.5 MPH.
- WIND EXPOSURE CATEGORY: C.
- WIND INTERNAL PRESSURE COEFFICIENTS (GCpi): +/- 0.18
- COMPONENTS AND CLADDING WIND PRESSURES MUST BE CALCULATED IN ACCORDANCE WITH THE APPLICABLE CODE. COMPONENTS AND CLADDING DESIGN PRESSURES MAY BE REDUCED IN

G. SEISMIC CRITERIA

- SITE CLASS IS: D (PER GEOTECHNICAL REPORT, SEE NOTE H.1 THIS SHEET).
- 2. SEISMIC IMPORTANCE FACTOR (le): 1.0.

ACCORDANCE WITH THE BUILDING CODE.

- MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS (Ss): 0.162.
- MAPPED SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD (S1): 0.046. DESIGN SPECTRAL ACCELERATION PARAMETER AT SHORT PERIODS (SDS): 0.173.
- DESIGN SPECTRAL ACCELERATION PARAMETER AT 1-SECOND PERIOD (SD1): 0.074. SEISMIC DESIGN CATEGORY: B.
- 8. BASIC SEISMIC FORCE RESISTING SYSTEM IS STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR
- SEISMIC RESISTANCE.
- 9. SYSTEM OVERSTRENGTH FACTOR (Ωo): 3.0.
- DEFLECTION AMPLIFICATION FACTOR (Cd): 3.0.
- 11. RESPONSE MODIFICATION COEFFICIENT (R): 3.0. SEISMIC RESPONSE COEFFICIENT (Cs): 0.058.
- 13. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- 14. DESIGN BASE SHEAR: 14.7 KIPS (ENTRY BUILDING) 2.9 KIPS (CANOPY)

H. GEOTECHNICAL CRITERIA

- THE GEOTECHNICAL CRITERIA LISTED BELOW IS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY PENNONI ASSOCIATES INC. AND DATED OCTOBER 7, 2021. THE CONTRACTOR MUST EMPLOY A GEOTECHNICAL ENGINEER TO VERIFY THESE ASSUMPTIONS PRIOR TO
- CONSTRUCTION OPERATIONS. NET ALLOWABLE SOIL BEARING CAPACITY: 2,500 PSF.

BACKFILL PLACEMENT AND COMPACTION

- 1. BACKFILLING AGAINST WALLS WILL NOT BE PERMITTED UNTIL STRUCTURAL BRACING ELEMENTS ARE IN PLACE. BRACING ARRANGEMENTS MUST BE APPROVED BY THE CONTRACTING OFFICER PRIOR TO BACKFILLING
- 2. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO BRACE FOUNDATION WALLS WHEN BACKFILLING AND WHEN THERE IS A POSSIBILITY OF DAMAGE BY EXCESS WATER. BACKFILLING AGAINST SUCH WALLS MUST BE DONE IN A MANNER THAT WILL NOT DAMAGE WALLS. ALL PRECAUTIONS SHOULD BE TAKEN FOR ADEQUATE DRAINAGE PRIOR TO AND AFTER SUCH BACKFILLING.
- ALL FILL MATERIAL MUST BE PLACED IN MAXIMUM LOOSE LIFTS OF 8" AND MUST BE COMPACTED TO DRY DENSITIES OF AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698).

K. MATERIALS AND PHYSICAL PROPERTIES

- 1. "(___)" INDICATES ASTM STANDARD FOR WHICH MATERIAL MUST CONFORM.
- CONCRETE PROPERTIES MUST CONFORM TO THE CRITERIA SPECIFIED IN TABLE 1 BELOW.
- CONCRETE REINFORCEMENT (A615, GRADE 60): Fy=60,000 psi
- 4. NON-SHRINK GROUT (C1107): fc=8,000 psi (MINIMUM 2X FOOTING CONCRETE STRENGTH) STRUCTURAL STEEL
- W-SHAPES AND CHANNELS (A992): Fy=50,000 psi
- b. PLATES (A36): Fy=36,000 psi
- c. ANGLES (A36): Fy=36,000 psi RECTANGULAR HSS (A500, GRADE C): Fy=50,000 psi
- e. ROUND HSS (A500, GRADE C): Fy=46,000 psi

PIPES (A53, GRADE B): Fy=35,000 psi

- 6. WELDING ELECTRODES: PER TABLE 3.1 OF AWS D1.1 FOR THE SMAW PROCESS OR ANY OTHER PREQUALIFIED WELDING PROCEDURES SPECIFICATIONS (WPS).
- 7. STEEL BOLTS AND THREADED RODS
 - a. HIGH STRENGTH BOLTS (F3125, GRADE A325, TYPE 1): Fu=120,000 psi
 - TENSION CONTROL BOLTS (F3125, GRADE F1852, TYPE 1): Fu=120,000 psi THREADED STEEL RODS (A36): Fy=36,000 psi, Fu=58,000 psi
- ANCHOR RODS (F1554, GRADE 55, S1): Fy=55,000 psi, Fu=75,000 psi ROOF DECK AND ACCESSORIES (A653 OR A1008): Fy=33,000 psi
- COLD-FORMED STEEL STUDS AND ACCESSORIES (A653, A875, A792, OR A463; AND C955) a. 12, 14, AND 16 GAGE: Fy=50,000 psi

18 GAGE: Fy=33,000 psi TABLE 1: CONCRETE MIX DESIGN PROPERTIES

STRUCTURE TYPE	fc (MINIMUM) ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS (PSI)	MAXIMUM WATER/ CEMENTITIOUS MATERIALS RATIO	ENTRAINED AIR CONTENT (%)
SLABS-ON-GROUND, FOUNDATIONS, FOUNDATION WALLS, AND STAIRS	4000	0.50	4.5%
	UNIT WEIGHT	EXPOSURE CATEGORY CLASSES	
SLABS-ON-GROUND, FOUNDATIONS, FOUNDATION WALLS, AND STAIRS	NW	F1, S0, W0, C0	

TABLE 1 NOTES:

- THE PROPORTIONING OF THE CONCRETE MIXTURES MUST SATISFY THE EXPOSURE CATEGORIES AND CLASSES SPECIFIED IN THIS TABLE AS RELATED TO THE MIX PROPORTIONING REQUIREMENTS OF ACI 318.
- NW DESIGNATES NORMAL WEIGHT CONCRETE.

L. FOOTINGS

- FOOTING ELEVATIONS SHOWN ON THE PLANS ARE AT TOP OF FOOTINGS.
- LOCATION OF FOOTING STEPS SHOWN ON THE FOUNDATION PLAN ARE APPROXIMATE AND INTENDED FOR USE BY THE CONTRACTOR IN BIDDING. EXACT LOCATION MUST BE DETERMINED IN THE FIELD BY THE GENERAL CONTRACTOR USING THE SITE PLAN AND THE GEOTECHNICAL REPORT
- REFER TO TYPICAL FOOTING STEP DETAIL 7 ON SHEET S-501 THE BOTTOM ELEVATION OF NEW FOOTINGS ADJACENT TO EXISTING FOOTINGS MUST MATCH THE
- BOTTOM ELEVATION OF THE EXISTING FOOTINGS UNLESS OTHERWISE DETAILED ON THE DRAWINGS. ELEVATIONS OF THE TOP OF EXISTING FOOTINGS THAT ARE SHOWN ON THE DRAWINGS ARE BASED UPON THE ORIGINAL ADMISSION BUILDING NO. 17 DRAWINGS DATED 25 NOVEMBER 1947, EXISTING BUILDING DRAWINGS PREPARED BY THE HILLER GROUP AND DATED 31 JANUARY 2003, EXISTING BUILDING DRAWINGS PREPARED BY BURKAVAGE DESIGN ASSOCIATES LLC AND DATED 6 AUGUST 2009, AND EXISTING BUILDING DRAWINGS PREPARED BY AE WORKS AND DATED 15 JANUARY 2021.
- CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS AND ADJUST THE NEW FOOTING ELEVATIONS AS REQUIRED TO MATCH THE ELEVATION OF THE EXISTING BOTTOM OF FOOTING. BOTTOMS OF ALL FOOTINGS MUST EXTEND 1'-0" MINIMUM INTO UNDISTURBED SOIL AND, WHERE
- SUBJECT TO FROST ACTION, AT LEAST 3'-0" FEET BELOW FINISHED GRADE. WHERE BEARING ON UNDISTURBED VIRGIN SOIL IS NOT POSSIBLE AT FOOTING ELEVATIONS INDICATED, FOOTINGS MUST BE SUPPORTED ON CONTROLLED FILL OR FOOTINGS MUST BE
- LOWERED AND MUST BEAR ON VIRGIN SOIL. IF THE DESIGN SOIL BEARING PRESSURE NOTED IN THE STRUCTURAL NOTES SECTION "GEOTECHNICAL CRITERIA" CANNOT BE ACHIEVED AT THE FOOTING ELEVATIONS INDICATED ON THE
- FOUNDATION PLAN, THE CONTRACTING OFFICER MUST BE NOTIFIED IN WRITING FOR GUIDANCE. 8. FOOTING SUBGRADE MUST BE APPROVED BY THE CONTRACTING OFFICER PRIOR TO PLACEMENT OF THE FOOTINGS.
- UNLESS NOTED OTHERWISE, WHERE UTILITIES ENTER THE BUILDING 4 FEET OR LESS BELOW THE BOTTOM OF FOOTING ELEVATION, THE FOOTING MUST BE STEPPED DOWN TO ALLOW THE UTILITIES TO PASS THROUGH THE FOUNDATION WALL AND THE WALL PENETRATION MUST BE SLEEVED AND PATCHED, SEE DETAIL 2 ON SHEET S-501. WHERE UTILITIES ENTER THE BUILDING MORE THAN 4 FEET BELOW THE BOTTOM OF FOOTING ELEVATION, THE UTILITIES MUST PASS UNDER THE FOOTING, PER DETAIL 1 ON SHEET S-501. COORDINATE WITH MEP DRAWINGS.

M. CAST-IN-PLACE CONCRETE CONSTRUCTION

- CONCRETE WORK MUST CONFORM TO ALL REQUIREMENTS OF ACI 318, ACI 301, AND THE ACI DETAILING MANUAL, EXCEPT AS MODIFIED BY THE CONTRACT SPECIFICATIONS AND SUPPLEMENTAL REQUIREMENTS BELOW
- 2. SEE STRUCTURAL NOTES SECTION "MATERIALS AND PHYSICAL PROPERTIES" FOR CONCRETE

ON FOOTINGS AND WHERE CONCRETE SLABS ARE SUPPORTED ON CONCRETE WALLS

- STRENGTHS AND PROPERTIES. INSTALL CONTINUOUS 2"x4" SHEAR KEY AT INTERFACE WHERE CONCRETE WALLS ARE SUPPORTED
- ADD HIGH-RANGE WATER REDUCING ADMIXTURE (SUPER PLASTICIZER) TO CONCRETE MIX FOR PUMPED CONCRETE AND WHERE REQUIRED FOR WORKABILITY. LIMIT SLUMP IN CONCRETE TO 8" AFTER ADDITION OF HIGH-RANGE WATER REDUCER TO CONCRETE VERIFIED TO HAVE A 2"-4" SLUMP. CONCRETE TEST CYLINDERS MUST BE TAKEN IN ACCORDANCE WITH THE REQUIREMENTS OF ACI
- 318, CHAPTER 26 AND THE CONTRACT SPECIFICATIONS. 6. SEE CONTRACT SPECIFICATIONS, SECTION 033000 "CAST-IN-PLACE CONCRETE" FOR ADMIXTURE REQUIREMENTS. ADMIXTURE DOSAGE, ADDITION TIMES, COMPATIBILITY WITH OTHER ADMIXTURES AND COMPATIBILITY WITH OTHER MIX CONSTITUENTS ARE BE THE RESPONSIBILITY OF THE MANUFACTURER

N. CONCRETE REINFORCEMENT

REINFORCEMENT STRENGTH.

WELDED SPLICES MAY NOT BE USED.

- SEE STRUCTURAL NOTES SECTION "MATERIALS AND PHYSICAL PROPERTIES" FOR CONCRETE
- DETAILS OF STEEL REINFORCEMENT MUST CONFORM TO ACI 318 AND CRSI STANDARDS.
- FOR ADDITIONAL CONCRETE REINFORCING INFORMATION REGARDING SLABS-ON-GROUND, REFER TO THE CORRESPONDING STRUCTURAL NOTES SECTIONS AND THE DRAWINGS.
- 4. CONCRETE PROTECTION FOR STEEL REINFORCEMENT OF CAST-IN-PLACE CONCRETE IS AS SPECIFIED IN TABLE 2 ON THIS SHEET, UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, FOOTING DOWELS FOR BUILDING WALLS MUST PROJECT ABOVE THE
- FOOTING AS REQUIRED TO LAP SPLICE WITH THE VERTICAL WALL REINFORCEMENT. UNLESS NOTED OTHERWISE, ALL SPLICES FOR REINFORCING MUST BE CLASS B LAP SPLICES.

N. CONCRETE REINFORCEMENT (CONTINUED)

7. WHEN REINFORCING STEEL IS NOTED AS CONTINUOUS IN GRADE BEAMS, WALLS, SLABS AND/OR BEAMS, SPLICE CONTINUOUS REINFORCING STEEL ONLY WHEN UNAVOIDABLE DUE TO STOCK LENGTHS. STAGGER ALL SPLICES A MINIMUM OF 8'-0". ADJACENT BAR SPLICES ARE NOT ACCEPTABLE. FOR REINFORCING SPLICES IN GRADE BEAMS, SLABS, AND BEAMS, LOCATE THE TOP BAR SPLICES WITHIN THE MIDDLE HALF OF THE SPAN AND LOCATE THE BOTTOM BAR SPLICES AT SUPPORTS, UNLESS NOTED OTHERWISE ON THE PLANS, DETAILS, OR SCHEDULES

	TABLE 2: CO	ONCRETE PROTE	CTION	
TYPE OF	NOT EXPOSED TO WEATHER OR IN	The state of the s	WEATHER OR IN VITH GROUND	CAST AGAINST AND PERMANENTLY IN
STRUCTURE	CONTACT WITH GROUND	#5 OR SMALLER	#6 OR LARGER	CONTACT WITH GROUND
SLABS	3/4"	1-1/2"	2"	3"
WALLS	3/4"	1-1/2"	2"	3"
FOOTINGS	-	3"	3"	3"
PEDESTALS	1-1/2"	1-1/2"	2"	3"

P. SLABS-ON-GROUND

- UNLESS NOTED OTHERWISE, SLABS-ON-GROUND MUST BE 4 INCH THICK POURED CONCRETE AND REINFORCED WITH #4 BARS AT 12 INCHES ON CENTER, EACH WAY. LOCATED REINFORCEMENT IN THE UPPER THIRD OF THE SLAB THICKNESS.
- 2. UNLESS NOTED OTHERWISE, VAPOR BARRIER MINIMUM THICKNESS MUST BE 10 MILS, AS LOCATED ON THE DETAILS.
- 3. FILL UNDER SLABS-ON-GROUND MUST BE MADE WITH MATERIAL APPROVED BY THE CONTRACTING OFFICER AND MUST BE COMPACTED IN A MANNER THAT WILL NOT DAMAGE FOUNDATION WALLS. ALL FILL MATERIAL MUST BE PLACED IN MAXIMUM LOOSE LIFTS OF 8" AND MUST BE COMPACTED TO DRY DENSITIES OF AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY
- 4. PROVIDE AND INSTALL A CONTINUOUS SAW CUT OR TOOLED CRACK CONTROL JOINT IN THE TOP OF THE SLAB WHERE INDICATED ON PLAN BUT AT SPACING NOT TO EXCEED 12 FEET. CONTROL JOINTS MUST BE LOCATED ON COLUMN CENTERLINES AND LOCATED BETWEEN COLUMN CENTERLINES AS REQUIRED. LAY OUT CONTROL JOINTS TO FORM AS NEARLY SQUARE PANELS AS PRACTICAL. IN RECTANGULAR PANELS, THE LONG SIDE MAY NOT BE LONGER THAN 1.5 TIMES THE DIMENSION OF
- THE SHORT SIDE. 5. PROVIDE AND INSTALL AN ISOLATION JOINT AROUND COLUMNS AS SHOWN ON THE DRAWINGS AND AT THE PERIMETER OF THE SLAB UNLESS NOTED OTHERWISE.

Q. ANCHORS

- PROPOSED ANCHORS MUST BE SUBMITTED TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL
- PRIOR TO FIELD OPERATIONS. 2. ALL ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE
- MANUFACTURER
- 3. POWDER ACTUATED FASTENERS SHALL BE HILTI X-U UNIVERSAL HIGH PERFORMANCE FASTENERS OR AN APPROVED EQUIVALENT
- WITH ACCOMPANYING ICC EVALUATION REPORT: SHALL HAVE A FACTORED TENSION CAPACITY OF 625 LBS AND A FACTORED SHEAR CAPACITY OF
- ADHESIVE ANCHORS (SOLID/GROUTED MASONRY)
- a. MUST HAVE AN APPROVED ICC EVALUATION REPORT;
- b. MUST USE INJECTABLE ADHESIVE; c. MUST USE THREADED RODS MEETING ASTM A-193, GRADE B7 STANDARD;
- d. MUST HAVE THE MINIMUM CAPACITIES LISTED BELOW FOR THE CONDITIONS SHOWN IN DETAIL REQUIRED SHEAR CAPACITY, Vua = 300 LBS
- ii. REQUIRED TENSION CAPACITY, Nua = 1,000 LBS
- BE ACHIEVED DUE TO FIELD CONDITIONS, NOTIFY THE PROJECT MANAGER FOR GUIDANCE PRIOR TO DRILLING HOLES FOR ANCHORS.

5. IF MINIMUM REQUIREMENTS (EMBEDMENT, SPACING, AND EDGE DISTANCE) FOR ANCHORS CANNOT

- 6. HOLES FOR ANCHORS TO BE INSTALLED IN MASONRY MUST BE DRILLED WITH A ROTARY DRILL ONLY, NOT A ROTARY-HAMMER DRILL
- 7. A FIELD TECHNICIAN EMPLOYED BY THE ANCHOR MANUFACTURER MUST BE ON SITE DURING ALL DRILLING AND INSTALLATION PROCESSES FOR EACH TYPE OF ANCHOR INSTALLED. 8. CURING TIME FOR ADHESIVE AND EPOXY ADHESIVE ANCHOR SYSTEM MUST BE A MINIMUM OF 48
- HOURS OR AS RECOMMENDED BY THE ANCHOR MANUFACTURER, WHICHEVER IS MORE STRINGENT 9. THE CONTRACTOR MUST ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED, PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED INSTALLERS WILL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING MUST BE KEPT ON SITE AND BE MADE AVAILABLE TO THE EOR/ IOR AS REQUESTED

10. PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE

- BUILDING CODE AND PER THE CURRENT ICC-ES REPORT (IBC 2021 TABLE 1705.3 NOTE B). STRUCTURAL STEEL
- 1. SEE STRUCTURAL NOTES SECTION "MATERIALS AND PHYSICAL PROPERTIES" FOR THE STRENGTHS
- OF STRUCTURAL STEEL, BOLTS, THREADED RODS, ANCHOR RODS, AND WELDS. UNLESS NOTED OTHERWISE, FRAMED BEAM CONNECTIONS MUST BE DESIGNED BY THE FABRICATOR FOR A VERTICAL REACTION AS LISTED ON THE CONTRACT DRAWINGS. 3. UNLESS NOTED OTHERWISE, FRAMED BEAM CONNECTIONS MUST BE DESIGNED FOR A VERTICAL

REACTION EQUAL TO ONE-HALF THE ALLOWABLE UNIFORM LOADS (MINIMUM OF 10 KIPS) PRESENTED

- IN TABLES 3-6, 3-7, 3-8, 3-9 OF THE AISC "MANUAL OF STEEL CONSTRUCTION, 15TH EDITION. THE LENGTH OF CONNECTION ANGLE(S) OR PLATE(S) MAY NOT BE LESS THAN HALF OF THE "T" DISTANCE OF THE BEAM WEB.
- BEAMS MARKED ON THE DRAWINGS WITH " ▶" SYMBOL MUST HAVE CONNECTION(S) DESIGNED TO DEVELOP THE FULL PLASTIC MOMENT CAPACITY AT EACH END THAT THE SYMBOL IS SHOWN. 6. WELDS MUST BE INSTALLED BY WELDERS QUALIFIED IN ACCORDANCE WITH AWS PROCEDURES FOR
- WELDER QUALIFICATION. 7. STRUCTURAL STEEL BELOW GRADE MUST HAVE A MINIMUM OF 3" CONCRETE COVER OR 4" SOLID MASONRY COVER.
- UNLESS NOTED OTHERWISE, PROVIDE 1/2" CAP PLATES ON THE TOP OF ALL COLUMNS. 9. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL MEMBERS MUST BE PAINTED WITH ONE COAT OF FABRICATORS STANDARD PRIMER PAINT, TWO MILS DRY FILM THICKNESS.

S. COLD FORMED METAL FRAMING

SEE STRUCTURAL NOTES SECTION "MATERIALS AND PHYSICAL PROPERTIES" FOR STRENGTH AND PROPERTIES OF COLD FORMED METAL FRAMING.

10. WELDING INSPECTION MUST BE MADE IN ACCORDANCE WITH THE INSPECTION CHAPTER OF AWS

2. FRAMING COMPONENTS INDICATED ON THE DRAWINGS ARE IDENTIFIED USING THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) IDENTIFICATION CODE. WHERE SCREW ATTACHMENTS ARE MADE TO FRAMING COMPONENTS OF DIFFERENT THICKNESSES. THE THINNEST COMPONENT MUST BE PENETRATED FIRST. WHEN TRACKS ARE THICKER THAN STUDS, PRE-DRILL HOLES IN THICKER TRACK MATERIAL ONLY PRIOR TO PROVIDING FASTENERS.

MINIMUM SPACING OF 1 INCH BETWEEN SCREWS, UNLESS NOTED OTHERWISE.

MAINTAIN A MINIMUM 3/4 INCH DISTANCE FROM EDGE OF STEEL TO CENTERLINE OF SCREW AND A

S. COLD FORMED METAL FRAMING (CONTINUED)

- 4. UNLESS NOTED OTHERWISE, TRACKS MUST HAVE A MINIMUM MATERIAL THICKNESS OF 0.0428 INCHES (18 GA). STUDS MUST BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO THE FLANGES OR WEBS OF THE
- TRACKS. THE ENDS OF THE STUDS MUST BEAR AGAINST THE WEB OF BOTH UPPER AND LOWER TRACKS UNLESS NOTED OTHERWISE 6. WALL STUD BRIDGING MUST BE INSTALLED PRIOR TO ATTACHMENT OF SHEATHING MATERIALS AND
- LOADING. WALL STUD BRIDGING ROWS MUST BE SPACED NOT TO EXCEED 4'-0" O.C.
- SPLICING OF FRAMING IS NOT PERMITTED UNLESS DETAILED ON THESE DRAWINGS. SPLICES IN TRACKS MUST BE LOCATED BETWEEN WALL STUDS AND MUST HAVE A MINIMUM OVERLAP OF 12
- 8. TEMPORARY BRACING MUST BE INSTALLED AND REMAIN IN PLACE UNTIL WORK IS IN PLACE AND COMPLETELY STABILIZED.
- 9. ALL STUDS, JOISTS, AND TRACKS MUST HAVE A G-90 GALVANIZED COATING. 10. UNLESS NOTED OTHERWISE, SELF-DRILLING SCREWS MUST BE #10 X 3/4 INCH SCREWS.
- 11. WELDED CONNECTIONS MUST BE PERFORMED IN ACCORDANCE WITH AWS D1.3 12. INSPECTION AND TESTING OF COLD FORMED CONSTRUCTION MUST BE IN ACCORDANCE WITH THE

STRUCTURAL NOTES FOR QUALITY ASSURANCE AND SPECIAL INSPECTIONS.

- UNLESS OTHERWISE NOTED, STEEL ROOF DECK MUST BE 1-1/2" DEEP, 20 GAUGE, WIDE RIB STEEL ROOF DECK, MINIMUM 2-SPAN CONDITION, AND PROVIDE THE FOLLOWING MINIMUM CRITERIA:
- Fy = 33 KSI $Ip = 0.20 IN^4 / FT$ $ln = 0.22 IN^4 / FT$
- $Sp = 0.23 \text{ IN}^3 / \text{FT}$ $Sn = 0.24 \text{ IN}^3 / \text{FT}$ STEEL ROOF DECK MUST BE THE DEPTH AND THICKNESS SHOWN ON THE DRAWINGS. STEEL ROOF DECK MUST BE GALVANIZED WITH ONE SHOP COAT OF PRIMER PAINT.

FASTENER PATTERN OF 24/4 USING #12 SCREWS AND 9 SIDELAP FASTENERS WITH #10 SCREWS. ROOF OPENINGS

STEEL ROOF DECK

SEE ARCHITECTURAL AND MEP DRAWINGS FOR THE EXACT SIZE AND LOCATION OF ROOF OPENINGS. IF OPENING DIMENSIONS SHOWN ON THE ARCHITECTURAL AND MEP DRAWINGS CONFLICT WITH STRUCTURAL MEMBERS, THE CONTRACTING OFFICER MUST BE NOTIFIED, IN WRITING, PRIOR TO PROCEEDING WITH FABRICATION AND CONSTRUCTION OF THE OPENING.

DETAIL 3 ON SHEET S-521, UNLESS NOTED OTHERWISE ON PLAN.

GENERAL CONTRACTOR

- STRUCTURAL DRAWINGS MUST BE USED ONLY IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL AND MEP DRAWINGS, WHICH MUST BE PROVIDED TO ALL SUBCONTRACTORS RESPONSIBLE FOR
- STRUCTURAL CONSTRUCTION. SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS ARE PART OF THE STRUCTURAL DESIGN AND MUST BE SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND CONSTRUCTION.
- ALL STRUCTURAL ELEMENTS MUST BE TEMPORARILY SHORED AND BRACED AS REQUIRED TO RESIST THE LOADS TO WHICH THEY MAY BE SUBJECT DURING CONSTRUCTION. 4. ALL TEMPORARY SHORING AND BRACING MUST BE DESIGNED BY A REGISTERED PROFESSIONAL
- CAPABLE OF SUPPORTING THE LOADS TO WHICH IT MAY BE SUBJECT. DETERMINATION OF WHEN TEMPORARY SHORING AND BRACING CAN BE REMOVED IS THE RESPONSIBILITY OF THE SHORING THE DESIGN OF ALL TEMPORARY SHORING AND BRACING WILL BE THE RESPONSIBILITY OF THE
- CONTRACTOR. SIGNED AND SEALED SHOP DRAWINGS FOR TEMPORARY SHORING AND BRACING MUST BE SUBMITTED PRIOR TO CONSTRUCTION IMPOSED CONSTRUCTION LOADS INCLUDING CRANE LOADS, IN EXCESS OF THE STATED DESIGN LOADS MUST BE APPROVED BY THE CONTRACTING OFFICER PRIOR TO THE IMPOSITION OF SUCH
- THE DESIGN AND CONSTRUCTION OF SHORING REQUIRED TO MAINTAIN THE STABILITY OF EXCAVATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATIONS MUST COMPLY
- WITH OSHA REGULATIONS PROVIDE AND INSTALL CONTINUOUS DRAINAGE SYSTEM BEHIND WALLS BELOW GRADE IN ACCORDANCE WITH THE ARCHITECTURAL AND CIVIL DRAWINGS AND THE PROJECT SPECIFICATIONS.

1. SPECIAL INSPECTIONS MUST BE COMPLETED IN ACCORDANCE WITH CHAPTER 17 OF THE 2021 IBC AND SPECIFICATION SECTION 01 45 35.

W. SPECIAL INSPECTIONS

- UNLESS OTHERWISE SHOWN ON DRAWINGS, PROVIDE AND INSTALL STEEL LINTELS FOR OPENINGS
- IN BRICK FACADE AS SPECIFIED IN TABLE 3 ON THIS SHEET. INSTALL (1) STEEL LINTEL FOR EACH 4" OF WALL THICKNESS WITH A MINIMUM BEARING LENGTH OF 6" AT EACH END. UNLESS OTHERWISE SHOWN ON DRAWINGS, PROVIDE AND INSTALL PRECAST OR STEEL LINTELS
- FOR OPENINGS IN MASONRY WALLS AS SPECIFIED IN TABLE 3 ON THIS SHEET. INSTALL (1) LINTEL FOR EACH 4" OF WALL THICKNESS, WITH A MINIMUM BEARING LENGTH OF 6". STEEL ANGLE LINTELS MUST BE INSTALLED WITH THE VERTICAL LEGS INSIDE THE WALL AND THE HORIZONTAL LEGS POINTING TO THE OUTSIDE FACES OF THE WALLS. VERTICAL LEGS OF STEEL

	TABLE 3: LINTELS	
OPENING WIDTH	ANGLE SIZE	PRECAST CONCRETE SIZE 8 REINFORCING
TO 3'-0"	L3-1/2x3x5/16	4"x8" PCC W/ #3 T&B
3'-1" TO 4'-0"	L3-1/2x3-1/2x5/16	4"x8" PCC W/ #3 T&B
4'-1" TO 5'-0"	L4x3-1/2x5/16	4"x8" PCC W/ #4 T&B
TANKAR VA.		

4"x8" PCC W/ #4 T&B 5'-1" TO 6'-0" L5x3-1/2x5/16

LEGEND

CONCRETE STEEL GRAVEL SOLID CMU GROUT BRICK

Sprinkler Status

FULLY SPRINKLERED

V. LIST OF ABBREVIATIONS

AND

- CENTERLINE DIAMETER EXISTING (E), EXIST LOW NUMBER #. NO. PERCENT AMERICAN CONCRETE INSTITUTE ADDL ADDITIONAL AMERICAN INSTITUTE OF STEEL CONSTRUCTION AMERICAN IRON AND STEEL INSTITUTE **ALTERNATE**
- AMERICAN NATIONAL STANDARDS ANSI INSTITUTE **ARCHITECTURAL**
- ASCE AMERICAN SOCIETY OF CIVIL **ENGINEERS** AMERICAN SOCIETY FOR TESTING ASTM AND MATERIALS
- BLDG BUILDING UNLESS OTHERWISE NOTED, ROOF DECK MUST BE ATTACHED TO THE STRUCTURE WITH A SUPPORT BOTTOM OF B.O. BEARING COLD-FORMED METAL FRAMED

AMERICAN WELDING SOCIETY

- CONTROL JOINT CLEAR
- CONCRETE MASONRY UNIT CONC CONCRETE CONT CONTINUOUS
- CRSI CONCRETE REINFORCING STEEL ROOF DECK MUST BE SUPPORTED AROUND OPENINGS BY STRUCTURAL STEEL FRAMING PLAN INSTITUTE DEMOLISH, DEMOLITION
 - DIAMETER DIMENSION(S) DIV DIVISION DWG(S) DRAWING(S)
 - **EXPANSION JOINT** EACH FACE EL, ELEV ELEVATION ELECTRICAL ELEC
- **EMBED EMBEDMENT** EOD EDGE OF DECK EOS **EDGE OF SLAB** ENGINEER RETAINED BY THE CONTRACTOR AND MUST REMAIN IN-PLACE UNTIL THE STRUCTURE IS EOW END OF WALL
 - **EQUAL** EQ EQUIP EQUIPMENT **EQUIVALENT** E.W. EACH WAY EXTERIOR
 - FOOTING STEP FOOT OR FEET FTG FOOTING GAGE, GAUGE
 - HORIZ HORIZONTAL INTERNATIONAL BUILDING CODE INTERNATIONAL CODE COUNCIL **INSIDE DIAMETER**
 - INTERIOR
 - KIPS PER SQUARE FOOT KIPS PER SQUARE INCH LB, # POUNDS LONG LEG HORIZONTAL
 - LONG LEG VERTICAL LONG SIDE HORIZONTAL LONG SIDE VERTICAL MAS MASONRY
 - MAXIMUM MECHANICAL MEP MECHANICAL, ELECTRICAL & **PLUMBING** MINIMUM
 - MISCELLANEOUS MASONRY OPENING MILES PER HOUR NOM NOMINAL
 - NOT TO SCALE ON CENTER OUTSIDE DIAMETER OPPOSITE, OPPOSITE HAND POWDER ACTUATED FASTENER
 - POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS REINFORCING, REINFORCEMENT REQD REQUIRED R.O. ROUGH OPENING

PLATE

- **SQUARE FEET** SIMILAR SLOPED SPACES (SPACING) SPECS SPECIFICATIONS STD STANDARD
- T&B TOP AND BOTTOM TEMPORARY THROUGH THRU T&S TEMPERATURE AND SHRINKAGE

TYPICAL

UNLESS NOTED OTHERWISE

VERT VERTICAL W.O. **WORKING POINT** WITH WITHOUT

Project Title **Project Number** CONSTRUCT NEW ENTRYWAY BID DOCUMENTS BUILDING 17

Building Number Drawing Number LEBANON. PENNSYLVANIA S-001 Checked **Issue Date** || Drawn CJS ll bdb

VA FORM 08 - 6231

Revisions

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Consultant

Date

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Architect/Engineer of Record

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REGISTERED CORY MI SAUER ENGINEER PE091399

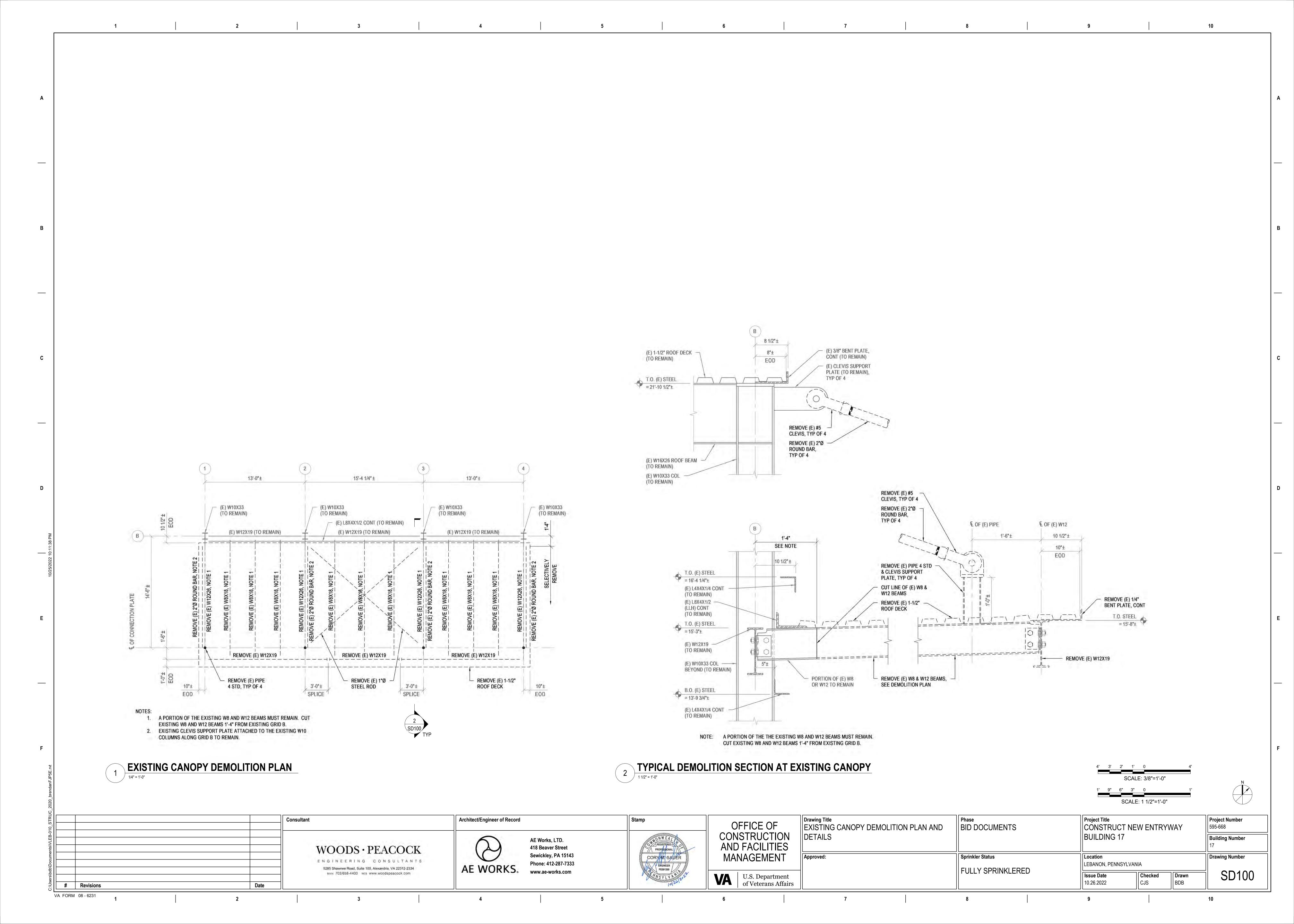
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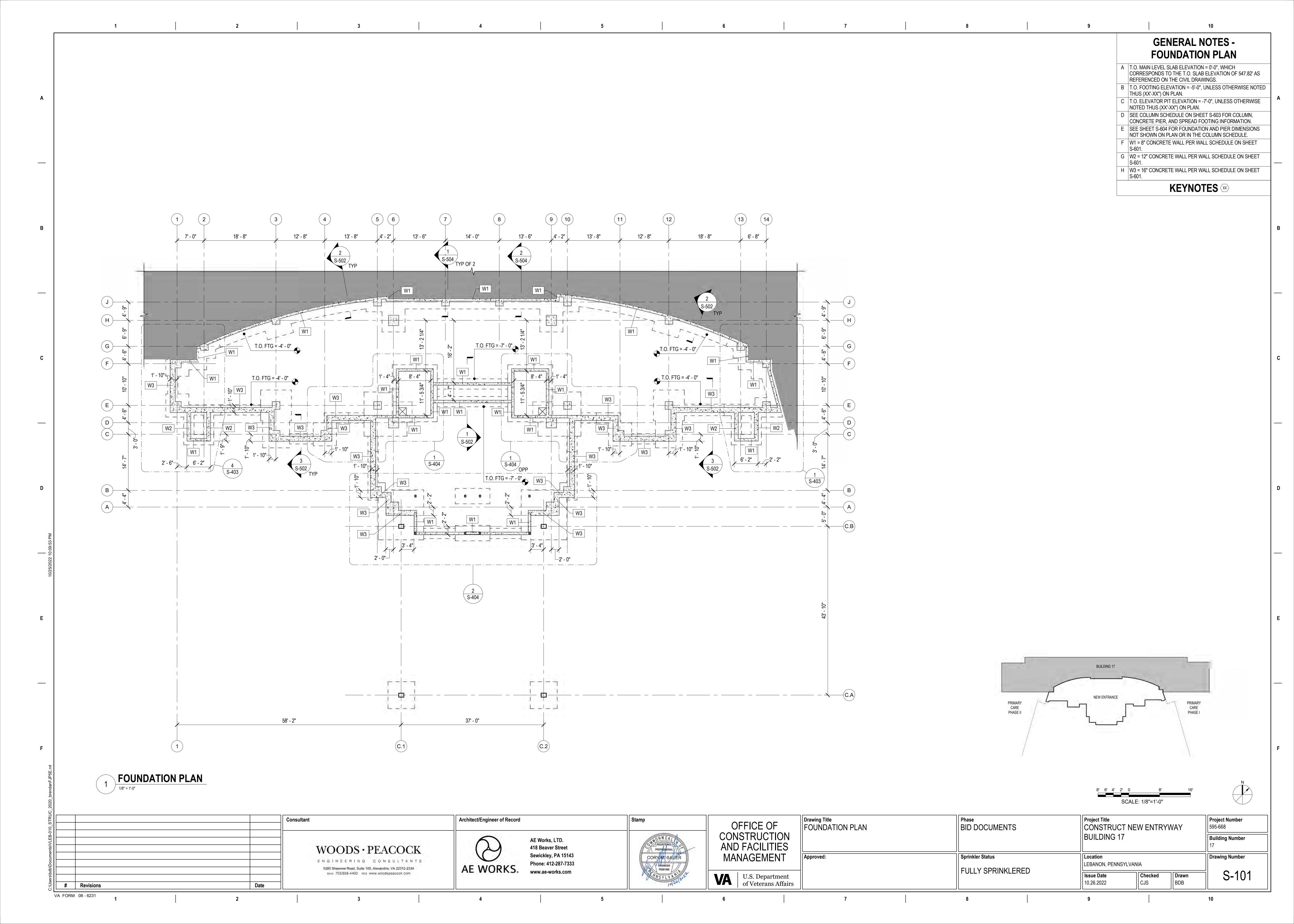
U.S. Department of Veterans Affairs

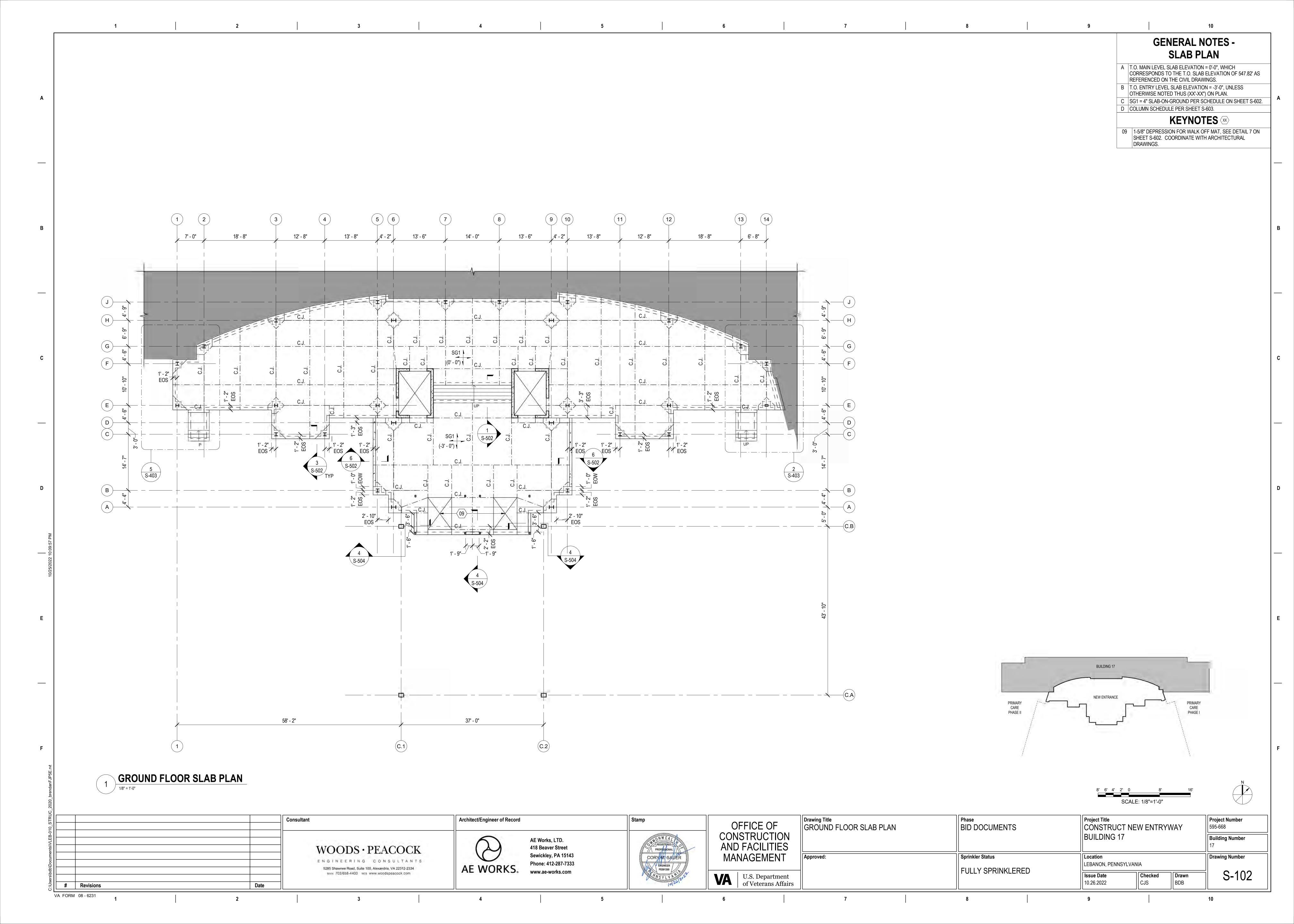
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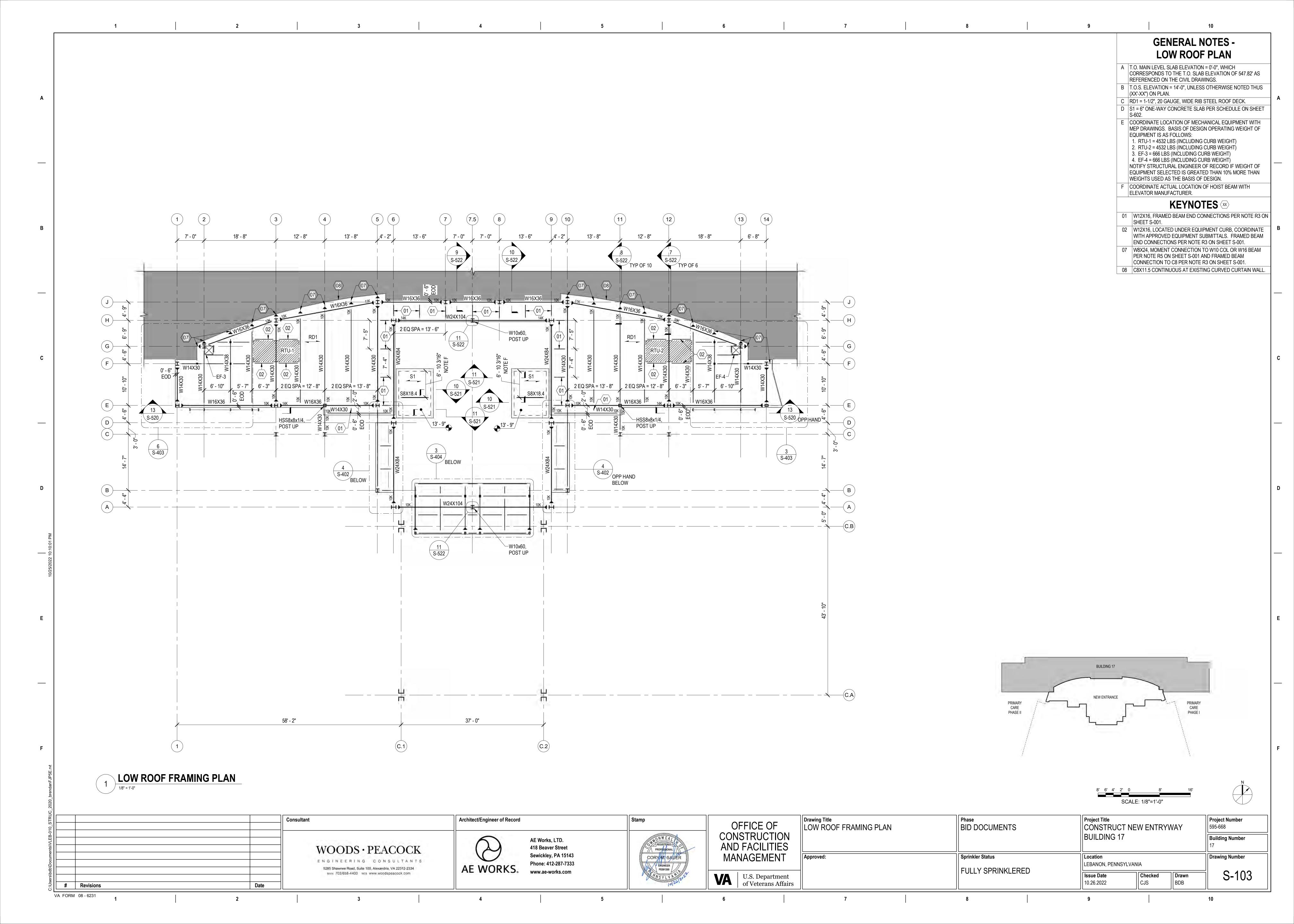
STRUCTURAL NOTES

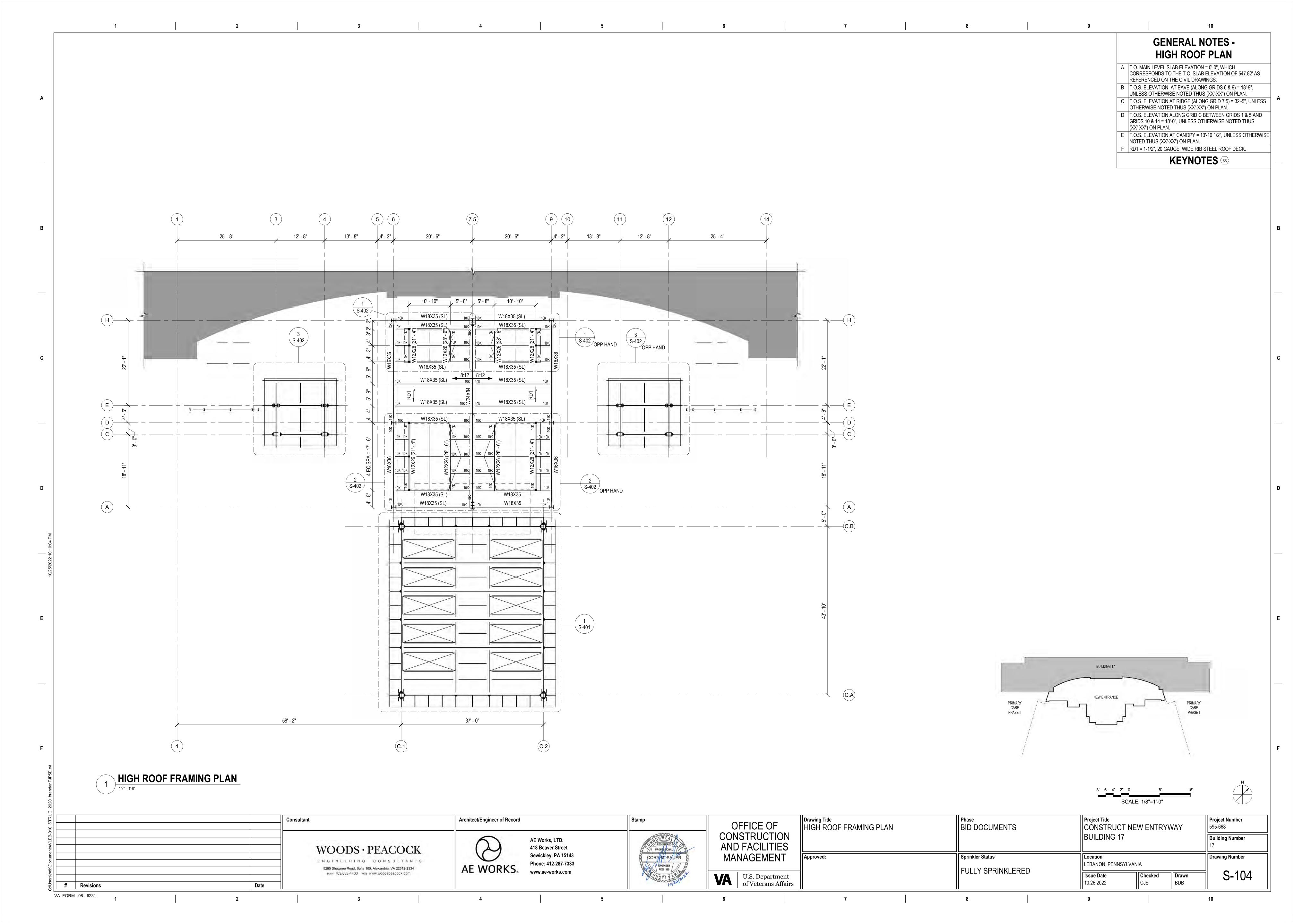
10.26.2022

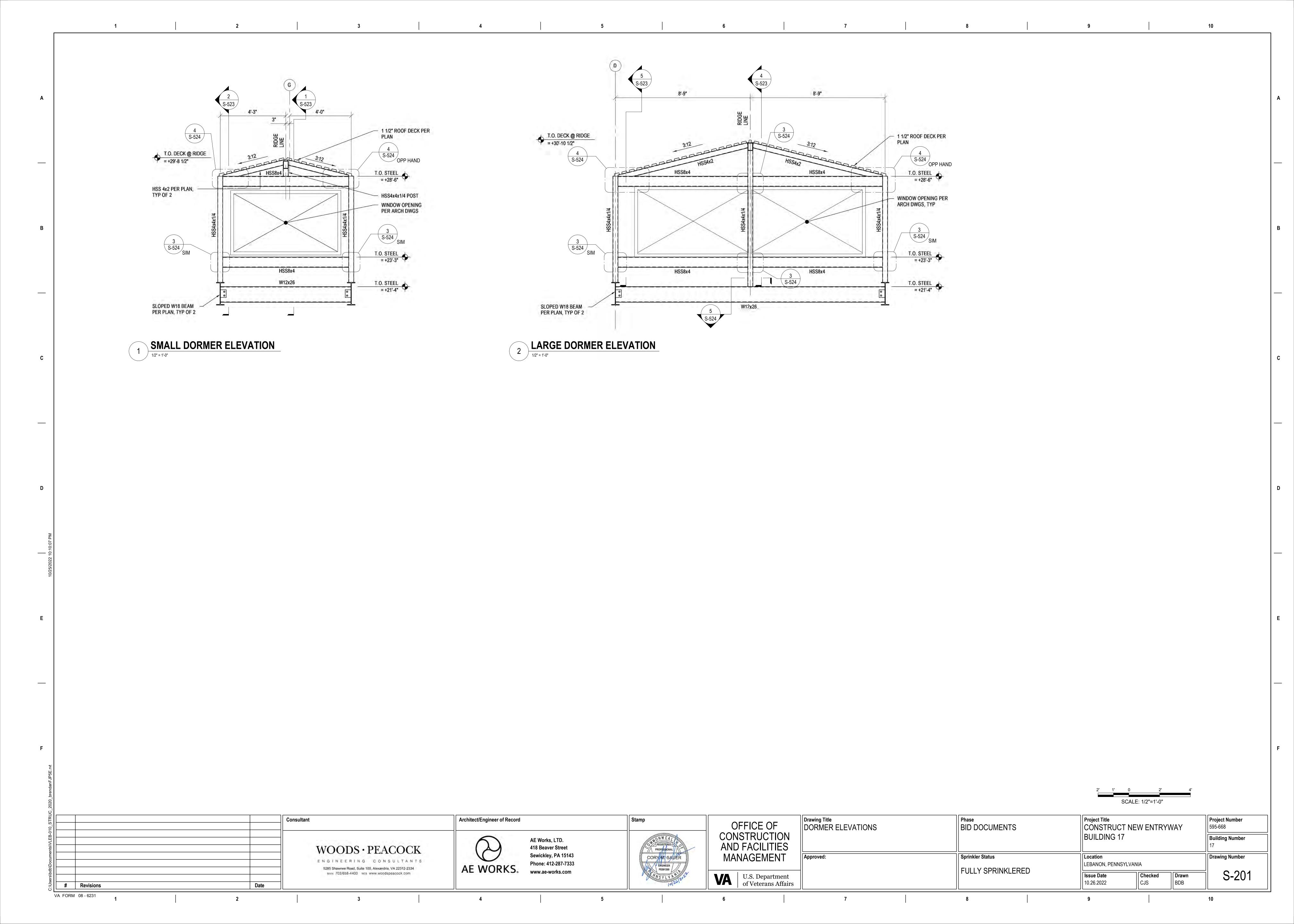


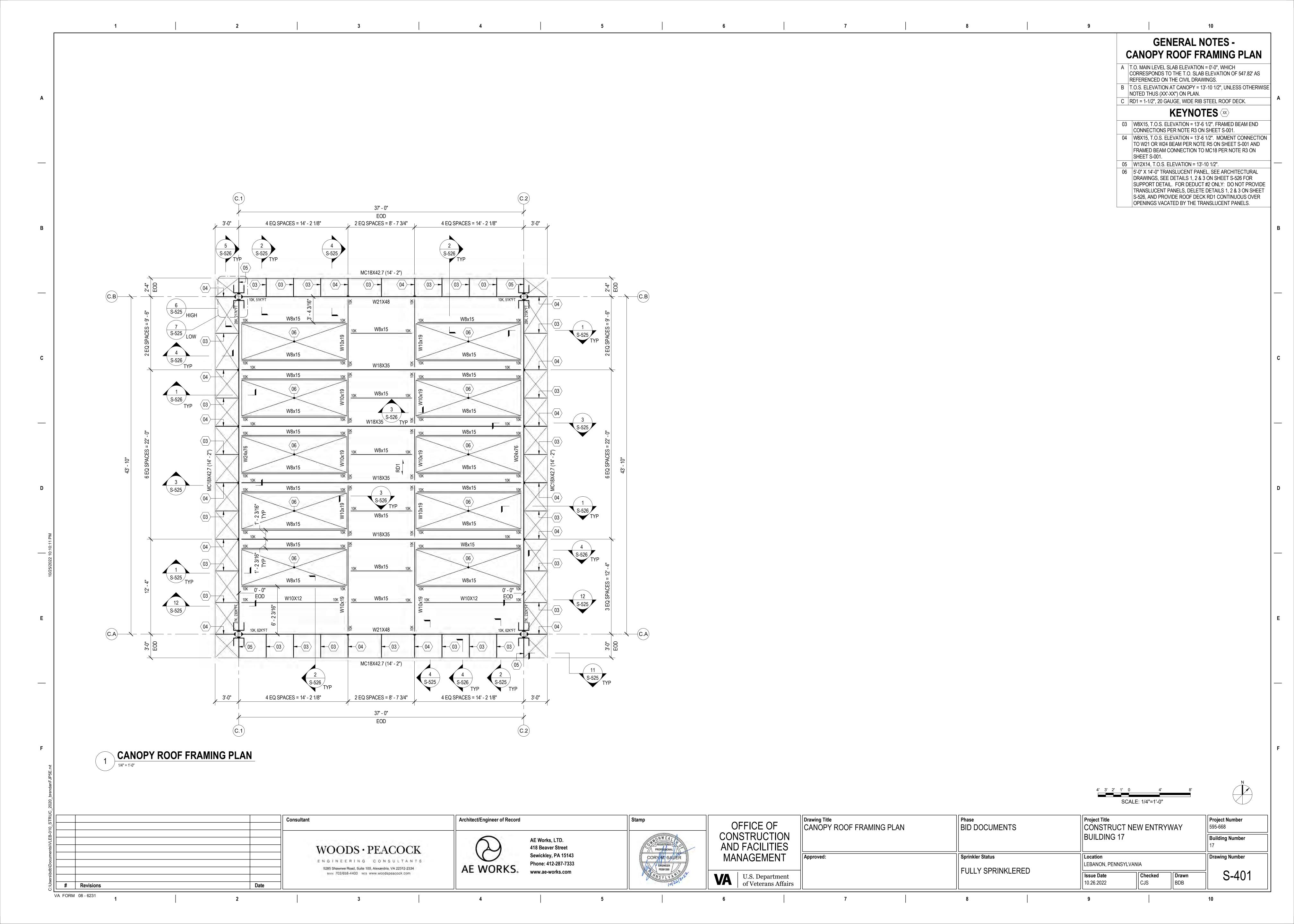


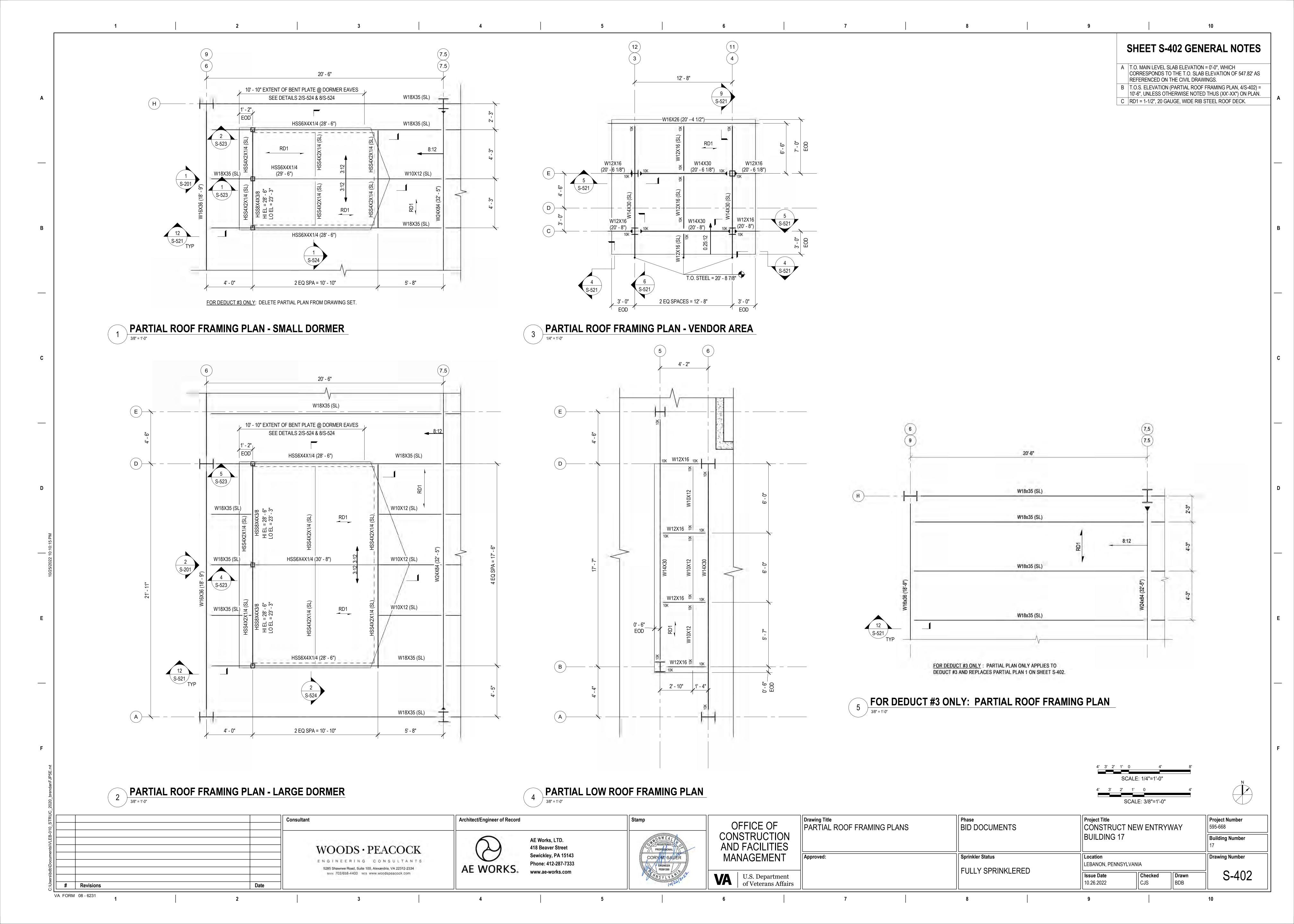


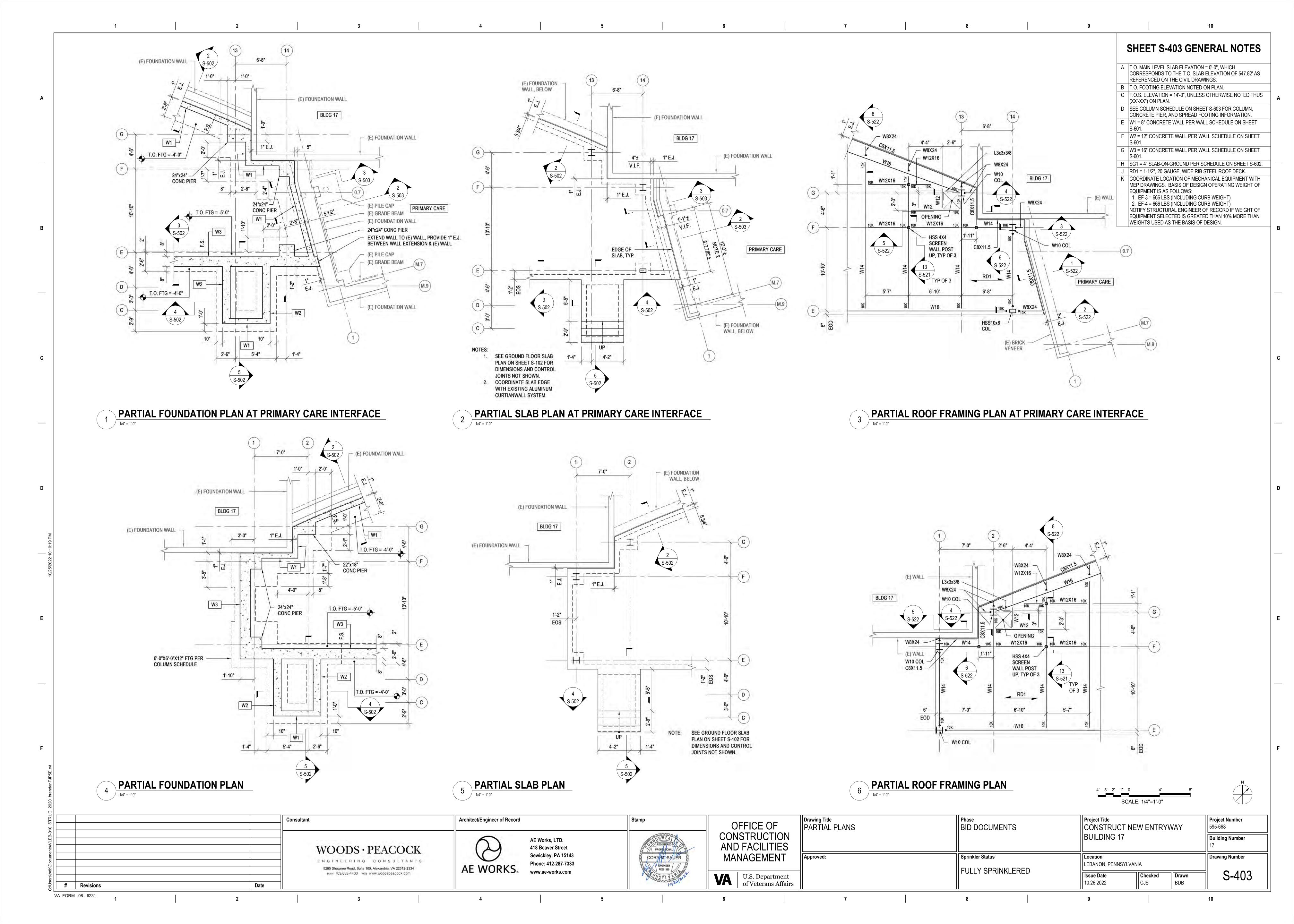


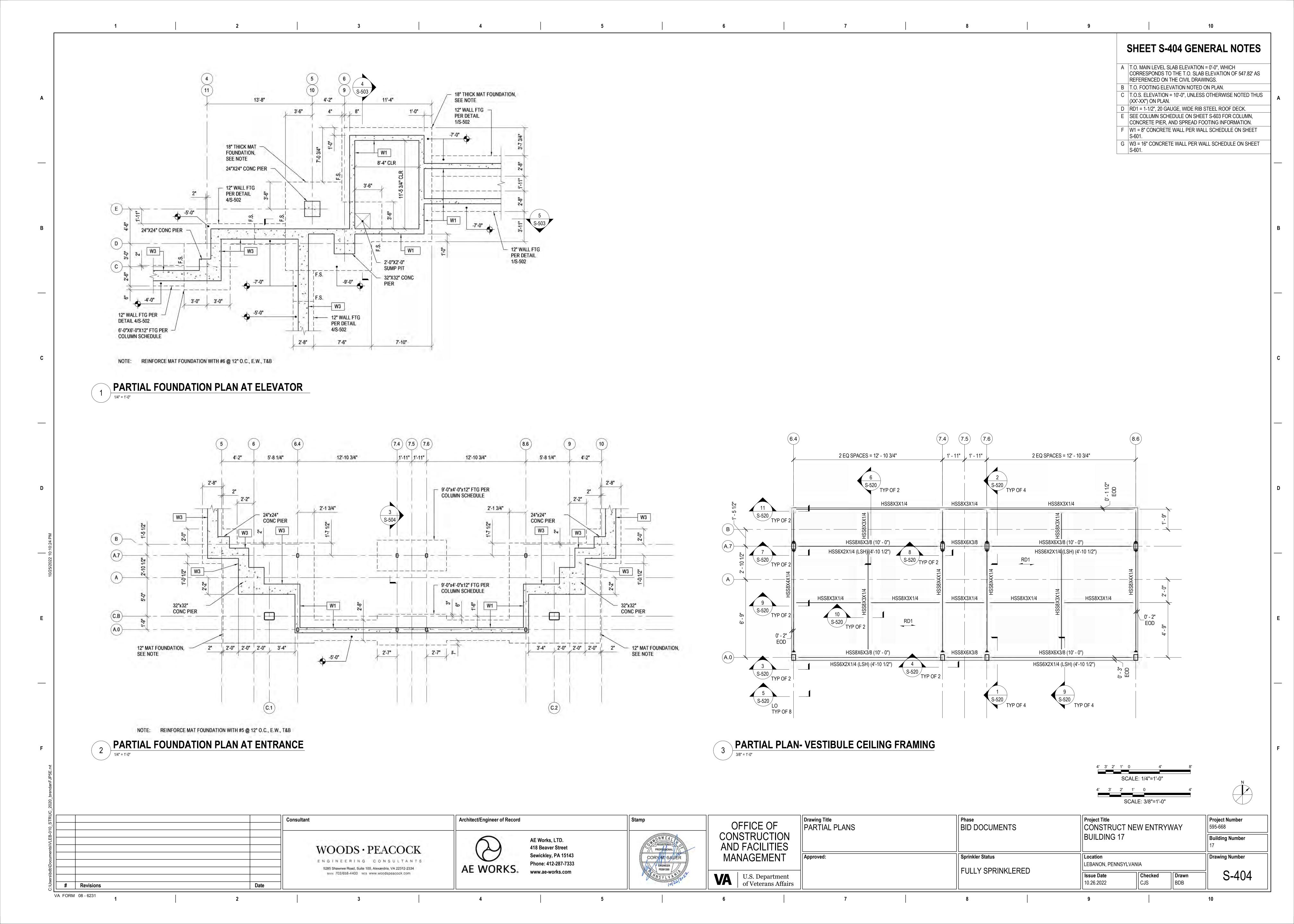


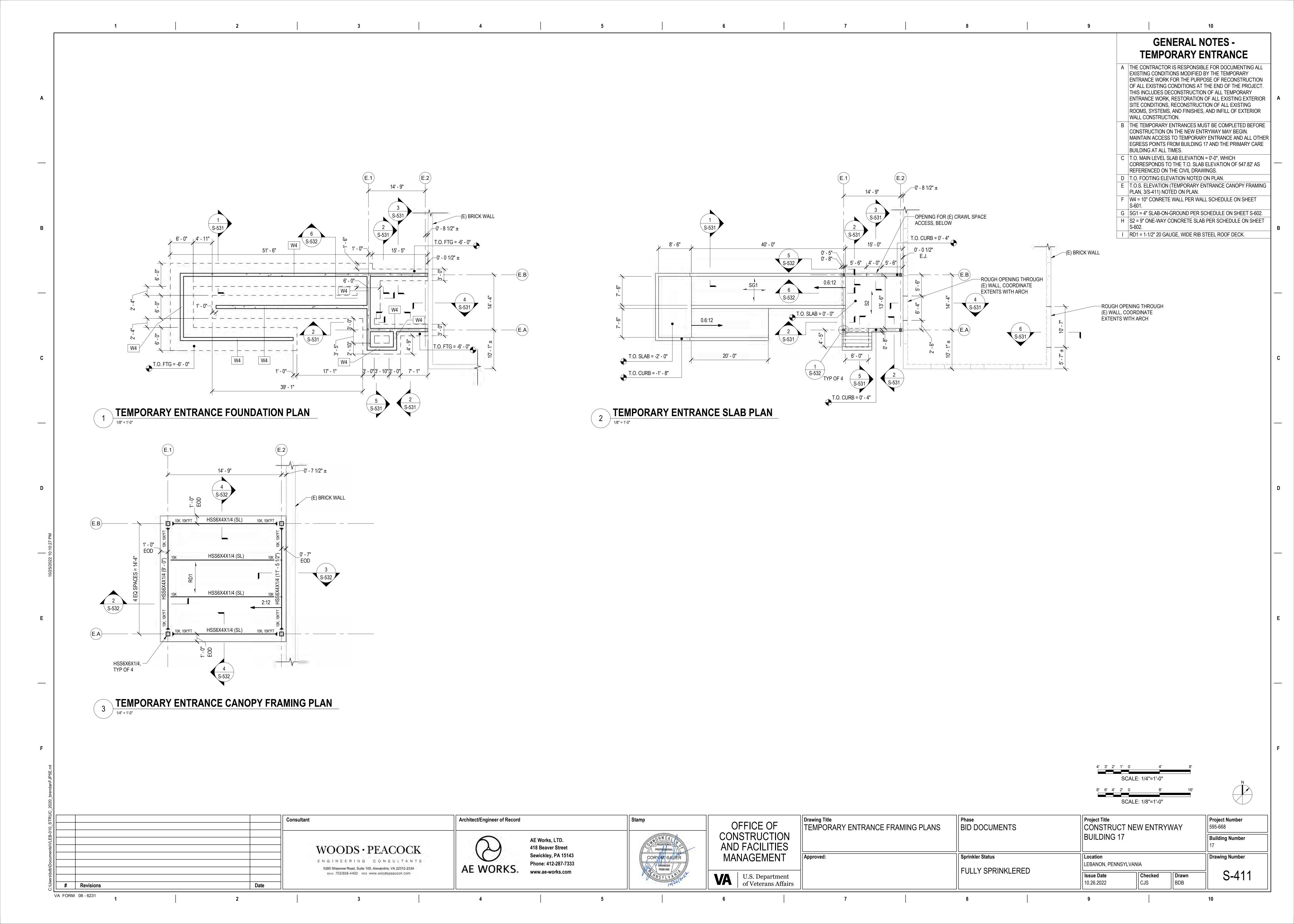


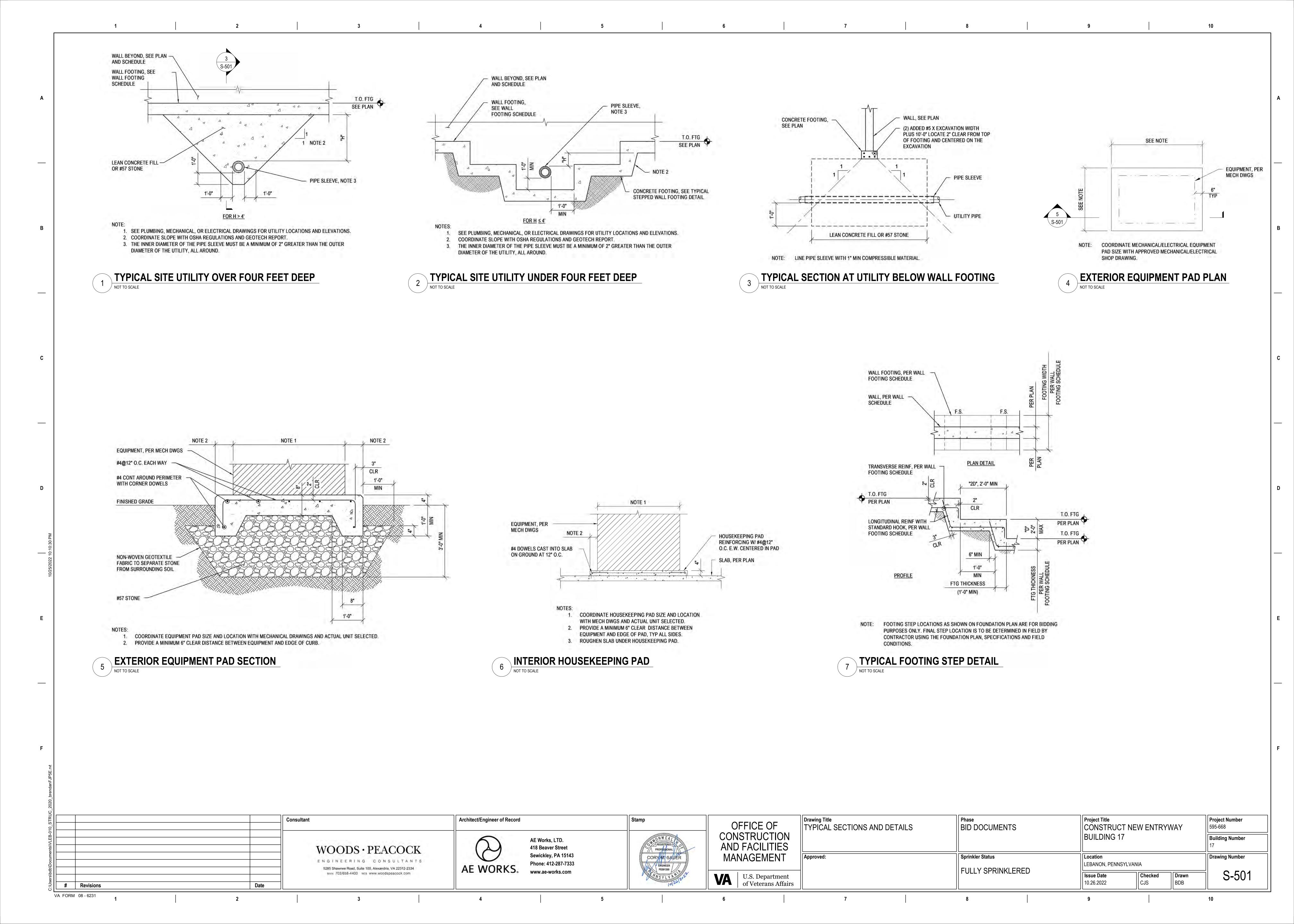


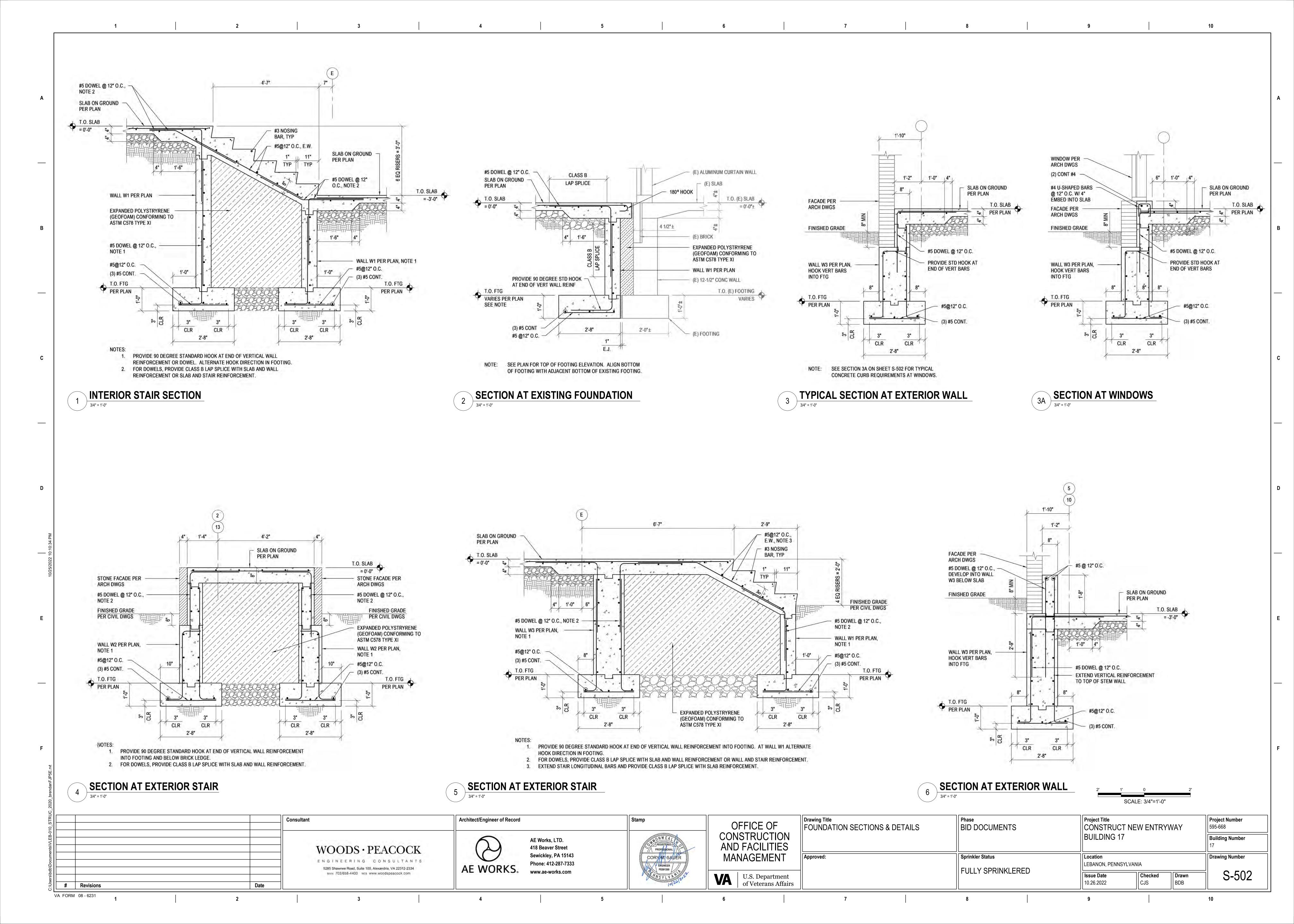


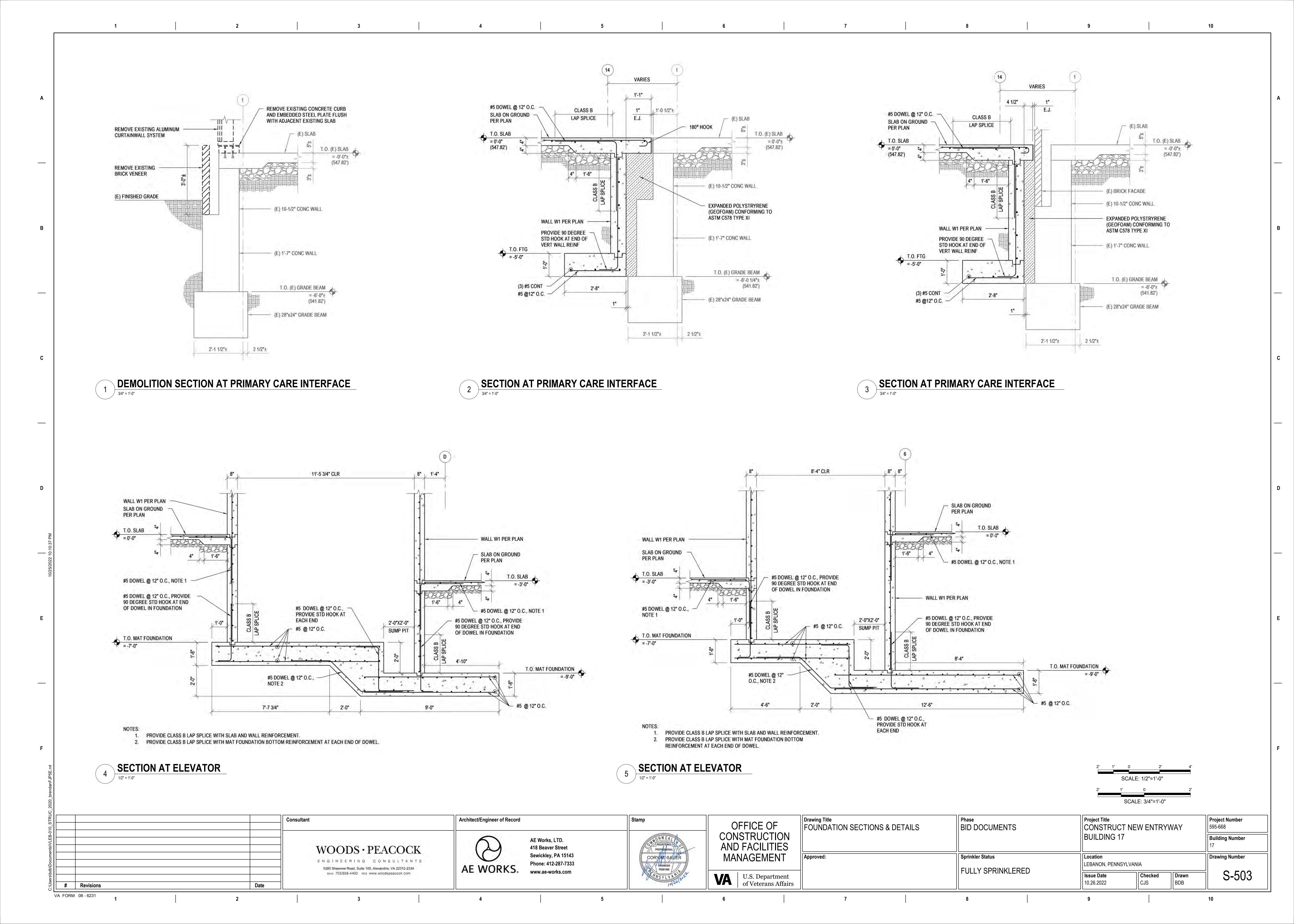


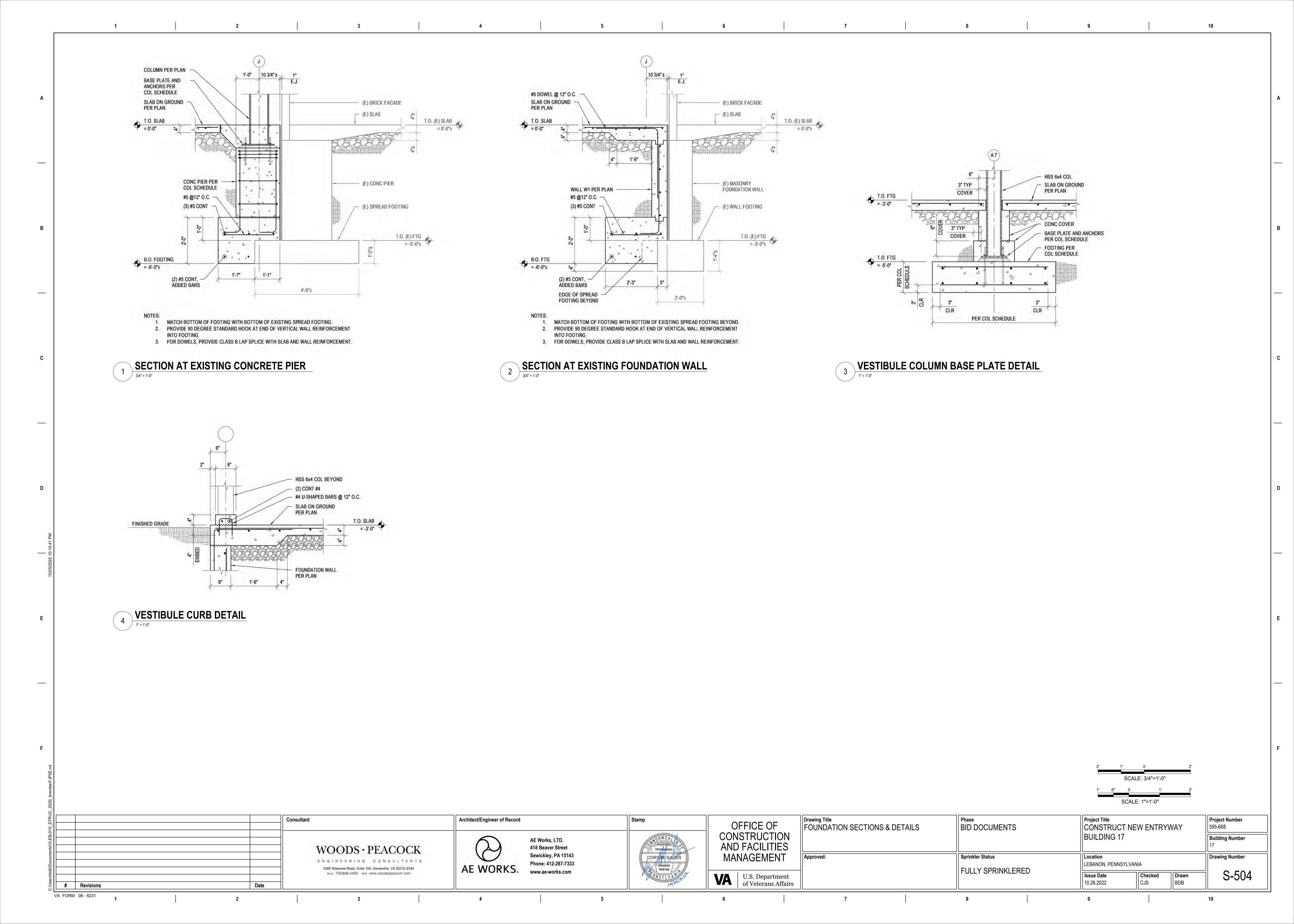


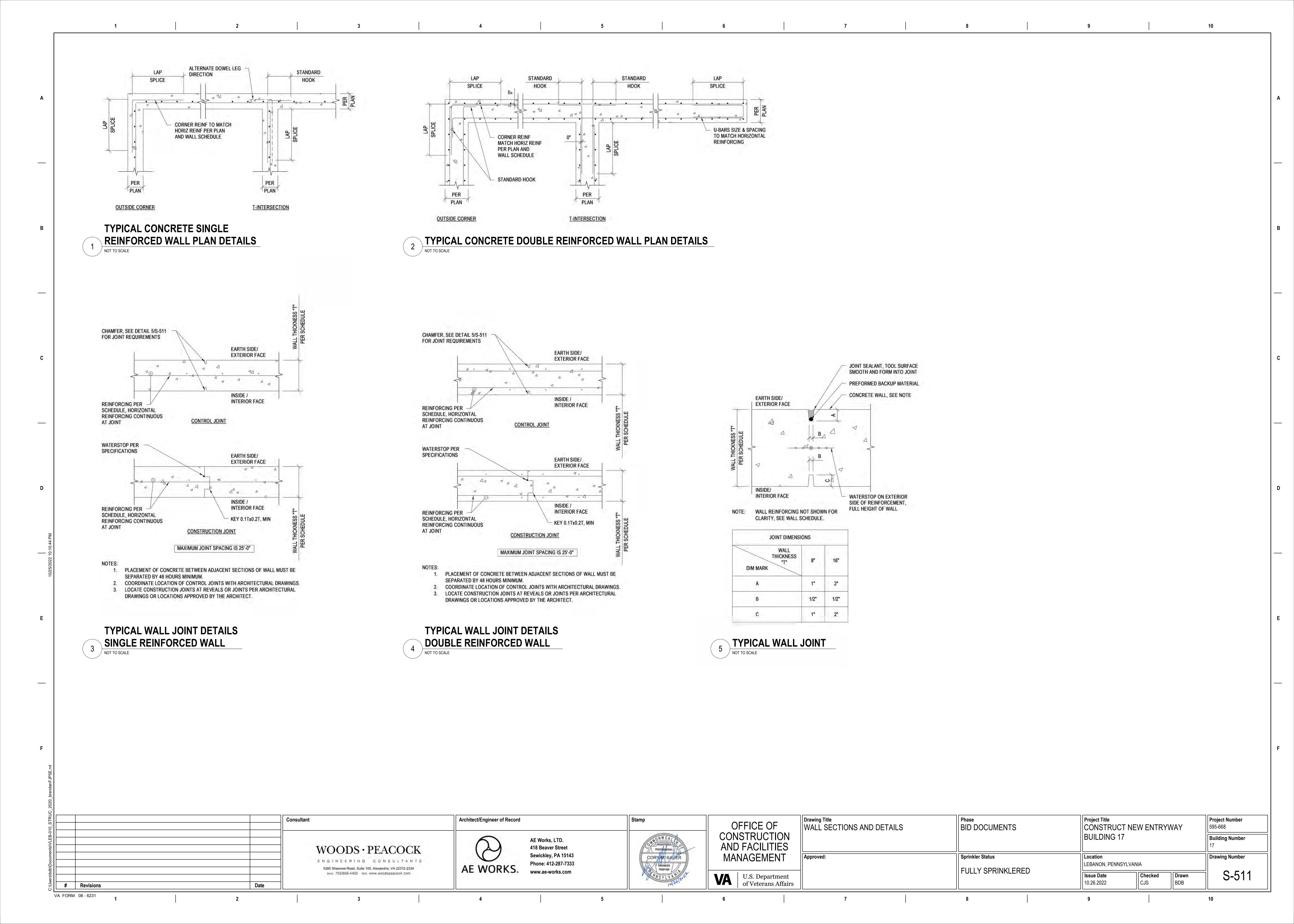


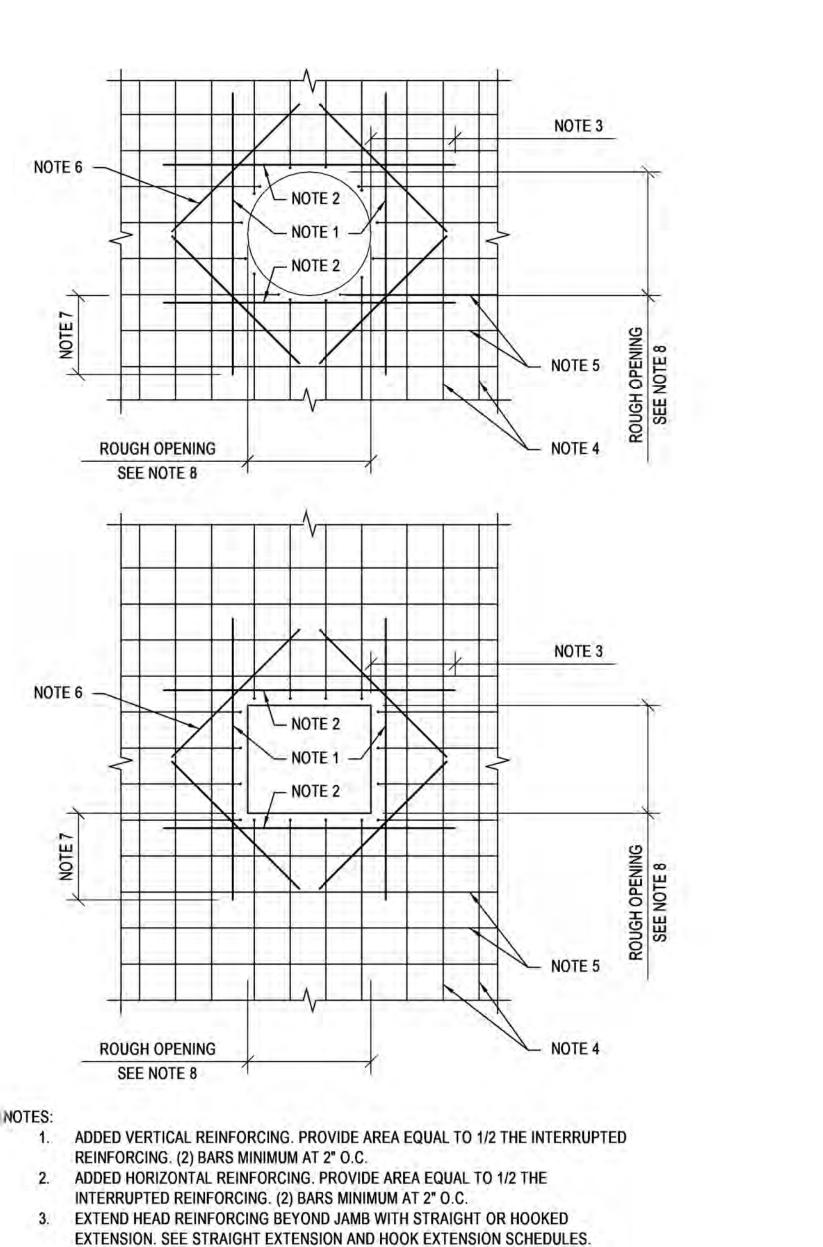












VERTICAL WALL REINFORCING, SEE WALL SCHEDULE.

HORIZONTAL WALL REINFORCING, SEE WALL SCHEDULE. ADDED DIAGONAL #5 x5'-0" LONG. PROVIDE ONE PER REINFORCING LAYER.

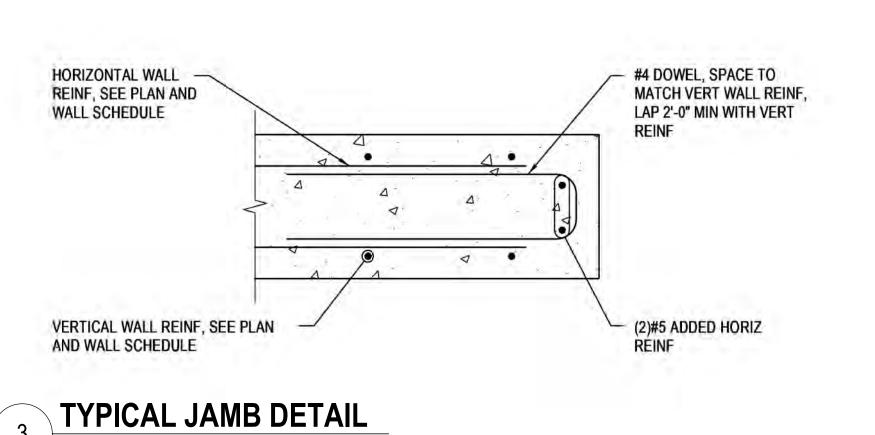
FOR HORIZONTAL OPENING < 4'-0", EXTEND JAMB REINFORCING BEYOND HEAD/SILL WITH STRAIGHT OR HOOKED EXTENSION. SEE DOWEL SCHEDULE. FOR HORIZONTAL OPENING > 4'-0", EXTEND JAMB REINFORCING CONTINUOUS FROM T.O. FOOTING TO T.O. SLAB ABOVE OPENING.

8. ROUGH OPENINGS SHOWN ON WALL ELEVATIONS. OPENINGS FOR PIPING NOT SHOWN, FOR PIPING PROVIDE ROUND OPENINGS WITH A MAXIMUM DIAMETER OF 1'-0". COORDINATE LOCATION OF PIPING WITH MEP DRAWINGS.

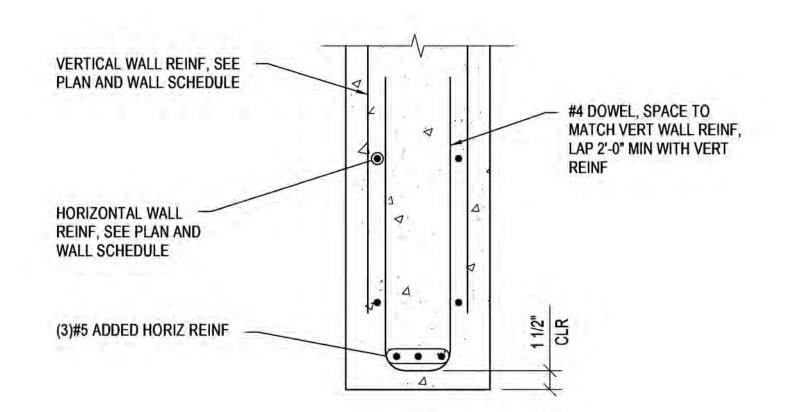
9. COORDINATE LOCATION OF THRU-WALL SCUPPERS WITH ARCHITECTURAL DRAWINGS.

TYPICAL WALL OPENING DETAILS

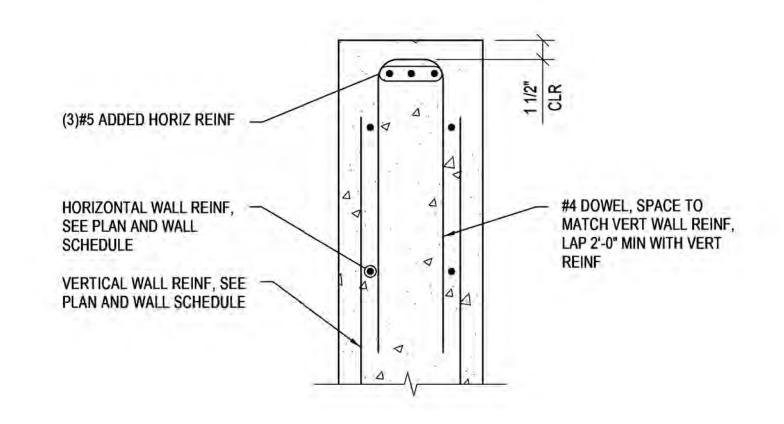
NOT TO SCALE



TYPICAL WALL OPENING ELEVATION SPLICE SPLICE STAGGER SPLICES 8'-0" MIN THE CONTRACTOR MUST COORDINATE ALL WALL OPENINGS WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE STRUCTURAL DRAWINGS IDENTIFY ONLY STRUCTURAL CRITERIA. NOTE 2 WALL OPENING NOTES: NOTE 4 1. VERTICAL WALL REINFORCING, SEE WALL SCHEDULE. 2. HORIZONTAL WALL REINFORCING, SEE WALL SCHEDULE. 3. ADDED VERTICAL REINFORCING. EXTEND JAMB REINFORCING CONTINUOUS FROM T.O. FOOTING TO T.O. SLAB ABOVE, SEE JAMB DETAIL ON THIS SHEET. 4. ADDED HORIZONTAL REINFORCING, SEE HEAD DETAIL. EXTEND HEAD REINFORCING BEYOND JAMB WITH STRAIGHT OR HOOKED EXTENSION. SEE REINFORCING EXTENSION SCHEDULES. NOTE 3 — 5. ADDED DIAGONAL #5 x 5'-0" LONG. PROVIDE ONE BAR AT EACH CORNER AND FOR EACH LAYER OF REINFORCING STEEL WITHIN THE WALL. **ROUGH OPENING** 6'-8" SEE PLAN COORD WITH ARCH DWGS DOOR OPENING



TYPICAL HEAD DETAIL



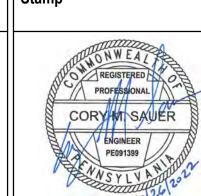
TYPICAL SILL DETAIL

Consultant WOODS · PEACOCK 5285 Shawnee Road, Suite 100, Alexandria, VA 22312-2334 MAIN 703/658-4400 WEB WWW.Woodspeacock.com

Date

Architect/Engineer of Record

AE Works, LTD. 418 Beaver Street Sewickley, PA 15143 Phone: 412-287-7333 www.ae-works.com



OFFICE OF

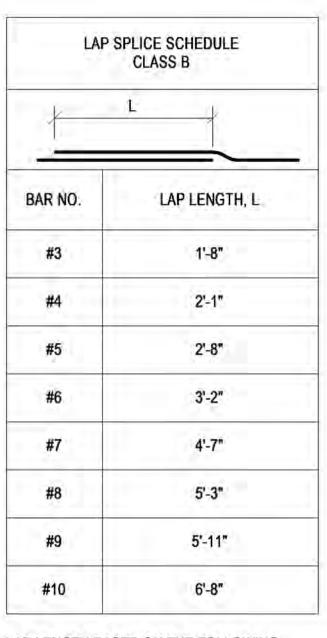
CONSTRUCTION	
AND FACILITIES	
MANAGEMENT	

U.S. Department of Veterans Affairs

BAR NO.	LAP LENGTH, L
#3	3'-4"
#4	3'-4"
#5	3'-4"
#6	3'-10"
#7	4'-0"
#8	4'-8"

STRAIGHT EXTENSION SCHEDULE

+	b	+
R.O.		
BAR NO.	a (in)	b (in)
#3	6	27
#4	8	33
#5	10	39
#6	12	45



LAP LENGTH BASED ON THE FOLLOWING: CLASS A SPLICE, fc=4000PSI, NORMAL WEIGHT CONCRETE, AND TYPICAL SPACING.

DO	WEL SCHEDU	ILE
1	b) e
BAR NO.	а	b
#3	6"	8"
#4	8"	10"
#5	10"	12'
#6	12"	15"
#7	14"	17'
#8	16"	19"
#9	20"	22"
#10	22"	25"

LENGTHS BASED ON THE FOLLOWING: NORMAL WEIGHT CONCRETE, fc=4000PSI, UNCOATED BARS

awing Title ALL SECTIONS AND DETAILS	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW ENTRYWAY BUILDING 17			Project Number 595-668
					Building Number 17
proved:	Sprinkler Status FULLY SPRINKLERED	Location LEBANON, PENNSYLVANIA			Drawing Number
		Issue Date 10.26.2022	Checked CJS	Drawn BDB	S-512

Revisions

VA FORM 08 - 6231

