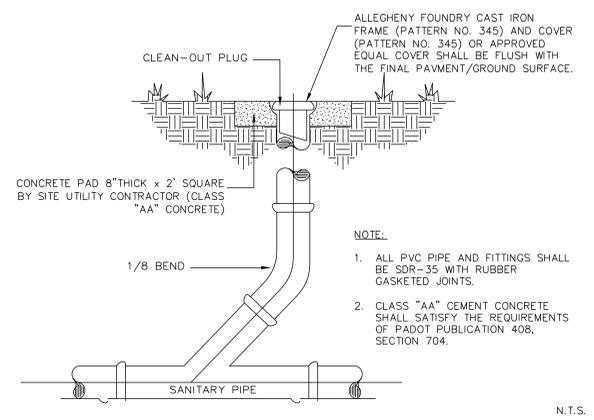


PIPE SIZE	TEE		1/2		45		90		W
	L	D	L	D	L	D	L	D	
6"	18"	15"	12"	15"	12"	15"	15"	15"	21"
8"	24"	18"	12"	18"	12"	18"	18"	18"	27"
12"	36"	24"	12"	24"	12"	24"	24"	24"	36"
16"	48"	36"	12"	36"	12"	36"	36"	36"	48"
20"	60"	48"	12"	48"	12"	48"	48"	48"	60"
24"	72"	60"	12"	60"	12"	60"	60"	60"	72"

BASIS:
 2,000 LB./SQ.FT. SOIL RESISTANCE 250 PSI WATER PRESSURE CORRECTION FACTORS FOR OTHER SOILS:
 SOFT CLAY 4
 SAND 2
 SAND & GRAVEL 1.33
 SHALE 0.4

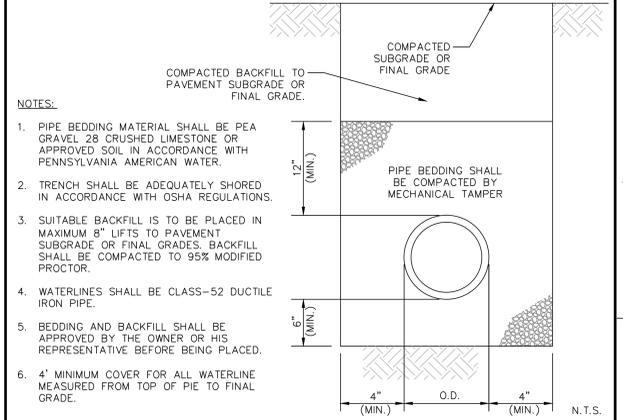
NOTES:
 1. IF SOFT MATERIALS ARE ENCOUNTERED, THE THRUST BLOCKS SIZES SHALL BE ADJUSTED ACCORDINGLY.
 2. CONCRETE TO BE 5,000 PSI.



NOTE:
 1. ALL PVC PIPE AND FITTINGS SHALL BE SDR-35 WITH RUBBER GASKETED JOINTS.
 2. CLASS "AA" CEMENT CONCRETE SHALL SATISFY THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 704.

N.T.S.

N.T.S.



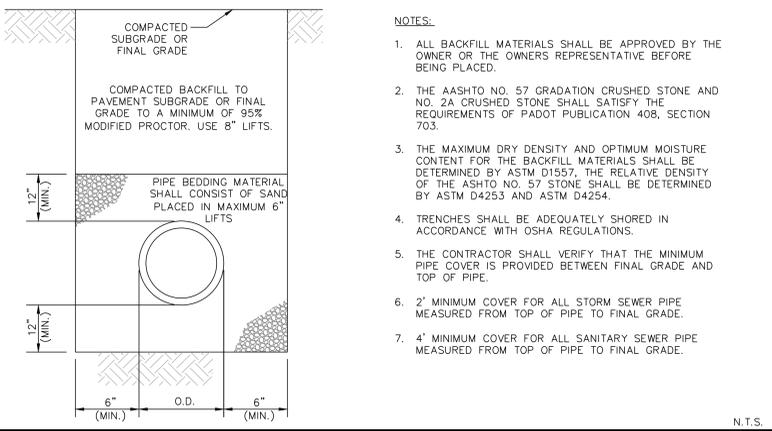
NOTES:
 1. PIPE BEDDING MATERIAL SHALL BE PEA GRAVEL 28 CRUSHED Limestone OR APPROVED SOIL IN ACCORDANCE WITH PENNSYLVANIA AMERICAN WATER.
 2. TRENCH SHALL BE ADEQUATELY SHORED IN ACCORDANCE WITH OSHA REGULATIONS.
 3. SUITABLE BACKFILL IS TO BE PLACED IN MAXIMUM 8" LIFTS TO PAVEMENT SUBGRADE OR FINAL GRADES. BACKFILL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR.
 4. WATERLINES SHALL BE CLASS-52 DUCTILE IRON PIPE.
 5. BEDDING AND BACKFILL SHALL BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE BEFORE BEING PLACED.
 6. 4" MINIMUM COVER FOR ALL WATERLINE MEASURED FROM TOP OF PIPE TO FINAL GRADE.

N.T.S.

1. THRUST BLOCK

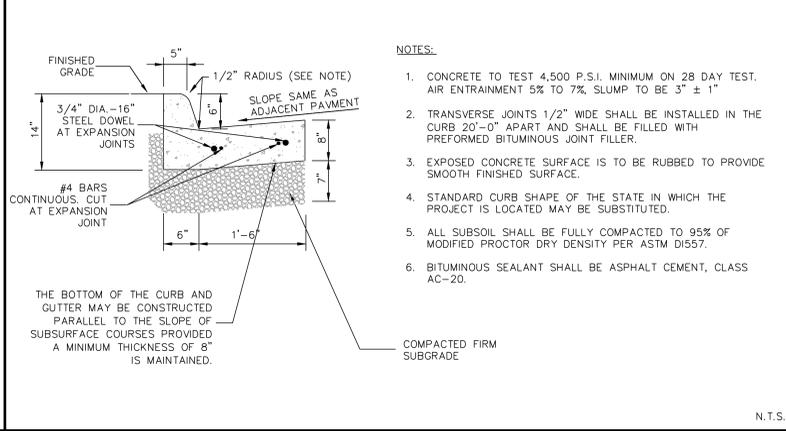
2. CLEANOUT

3. WATERLINE TRENCH AND BEDDING



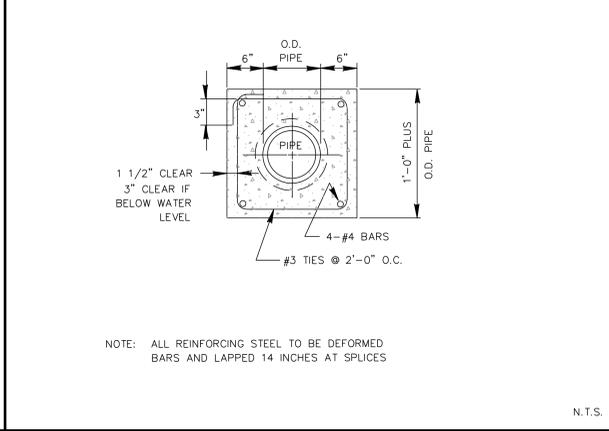
NOTES:
 1. ALL BACKFILL MATERIALS SHALL BE APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE BEFORE BEING PLACED.
 2. THE AASHTO NO. 57 GRADATION CRUSHED STONE AND NO. 24 CRUSHED STONE SHALL SATISFY THE REQUIREMENTS OF PADOT PUBLICATION 408, SECTION 703.
 3. THE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT FOR THE BACKFILL MATERIALS SHALL BE DETERMINED BY ASTM D1557. THE RELATIVE DENSITY OF THE ASHTO NO. 57 STONE SHALL BE DETERMINED BY ASTM D4253 AND ASTM D4254.
 4. TRENCHES SHALL BE ADEQUATELY SHORED IN ACCORDANCE WITH OSHA REGULATIONS.
 5. THE CONTRACTOR SHALL VERIFY THAT THE MINIMUM PIPE COVER IS PROVIDED BETWEEN FINAL GRADE AND TOP OF PIPE.
 6. 2' MINIMUM COVER FOR ALL STORM SEWER PIPE MEASURED FROM TOP OF PIPE TO FINAL GRADE.
 7. 4' MINIMUM COVER FOR ALL SANITARY SEWER PIPE MEASURED FROM TOP OF PIPE TO FINAL GRADE.

N.T.S.



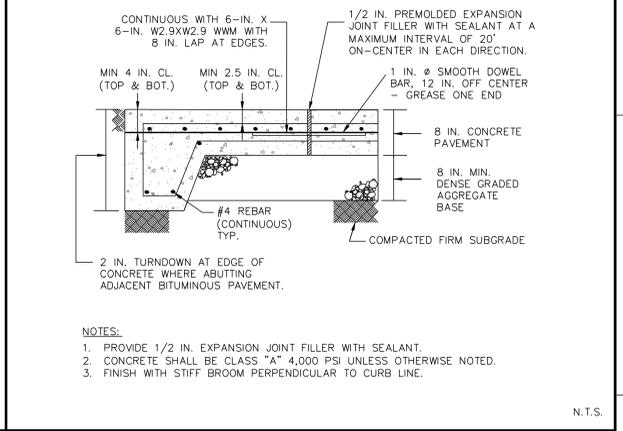
NOTES:
 1. CONCRETE TO TEST 4,500 P.S.I. MINIMUM ON 28 DAY TEST. AIR ENTRAINMENT 5% TO 7%, SLUMP TO BE 3" ± 1"
 2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20"-0" APART AND SHALL BE FILLED WITH PERFORMED BITUMINOUS JOINT FILLER.
 3. EXPOSED CONCRETE SURFACE IS TO BE RUBBED TO PROVIDE SMOOTH FINISHED SURFACE.
 4. STANDARD CURB SHAPE OF THE STATE IN WHICH THE PROJECT IS LOCATED MAY BE SUBSTITUTED.
 5. ALL SUBSOIL SHALL BE FULLY COMPACTED TO 95% OF MODIFIED PROCTOR DRY DENSITY PER ASTM D1557.
 6. BITUMINOUS SEALANT SHALL BE ASPHALT CEMENT, CLASS AC-20.

N.T.S.



NOTE: ALL REINFORCING STEEL TO BE DEFORMED BARS AND LAPPED 14 INCHES AT SPLICES

N.T.S.



NOTES:
 1. PROVIDE 1/2 IN. EXPANSION JOINT FILLER WITH SEALANT.
 2. CONCRETE SHALL BE CLASS "A" 4,000 PSI UNLESS OTHERWISE NOTED.
 3. FINISH WITH STIFF BROOM PERPENDICULAR TO CURB LINE.

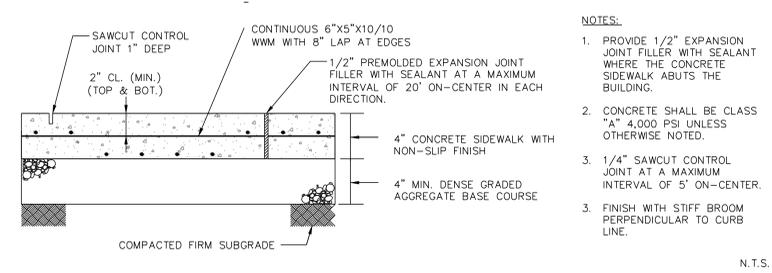
N.T.S.

4. STORM/SANITARY TRENCH AND BEDDING

5. CONCRETE CURB AND GUTTER

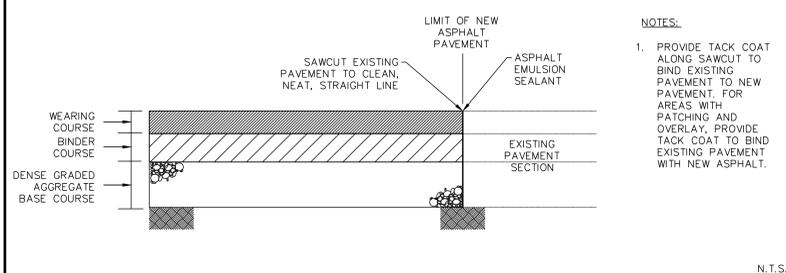
6. CONCRETE ENCASEMENT

7. HEAVY DUTY CONCRETE PAVEMENT



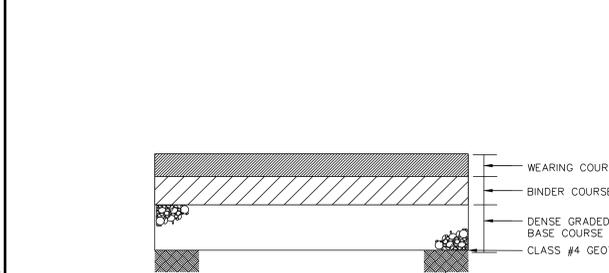
NOTES:
 1. PROVIDE 1/2" EXPANSION JOINT FILLER WITH SEALANT WHERE THE CONCRETE SIDEWALK ABUTS THE BUILDING.
 2. CONCRETE SHALL BE CLASS "A" 4,000 PSI UNLESS OTHERWISE NOTED.
 3. 1/4" SAWCUT CONTROL JOINT AT A MAXIMUM INTERVAL OF 5' ON-CENTER.
 3. FINISH WITH STIFF BROOM PERPENDICULAR TO CURB LINE.

N.T.S.



NOTES:
 1. PROVIDE TACK COAT ALONG SAWCUT TO BIND EXISTING PAVEMENT TO NEW PAVEMENT. FOR AREAS WITH PATCHING AND OVERLAY, PROVIDE TACK COAT TO BIND EXISTING PAVEMENT WITH NEW ASPHALT.

N.T.S.



NOTES:
 1. PRIOR TO PLACEMENT OF AGGREGATE, THE PAVEMENT SUBGRADE SHALL BE PREPARED AS FOLLOWS:
 a. PAVEMENT SUBGRADE SHALL BE PROFFERED AND COMPACTED AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AND WITHIN ±3% OF ITS OPTIMUM MOISTURE CONTENT, AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR). ANY SOFT AREAS SHALL BE OVEREXCAVATED TO A FIRM AND COMPETENT MATERIAL AND BACKFILLED AS DESCRIBED IN 1b.
 b. ALL APPROVED FILL SHALL BE PLACED IN MAXIMUM 8" THICK LOOSE LIFTS AND COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AND WITHIN ±3% OF ITS OPTIMUM MOISTURE CONTENT. THE FILL MATERIAL'S MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT SHALL BE DETERMINED BY ASTM D1557 (MODIFIED PROCTOR).
 c. AFTER COMPACTION, THE PAVEMENT SUBGRADE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION WITH NO SUDDEN, SHARP OR ABRUPT CHANGES OR BREAKS IN GRADES. NO STANDING WATER OR EXCESS MOISTURE SHALL BE PRESENT. ALL SOFT AND YIELDING AREAS SHALL BE REWORKED BY OVEREXCAVATING TO A FIRM AND COMPETENT MATERIAL AND BACKFILLED AS DESCRIBED IN 1b.
 d. THE SUBGRADE SHALL BE GRADED AND SHAPED AS REQUIRED TO CONSTRUCT THE AGGREGATE BASE COURSE IN CONFORMANCE WITH THE GRADES, LINES AND THICKNESSES SHOWN ON THE DRAWINGS.
 e. PLACE THE GEOTEXTILE ON THE PREPARED SUBGRADE PRIOR TO CONSTRUCTING THE AGGREGATE BASE COURSE.
 2. THE WEARING COURSES SHALL BE TAPERED INTO THE STORM SEWER INLETS WHILE MAINTAINING FULL PAVEMENT SECTION DEPTHS.

N.T.S.

8. CONCRETE SIDEWALK

9. PAVEMENT SAWCUT

11. ASPHALT PAVEMENT SECTION

10. CONCRETE PAVEMENT - TO BE EXCLUDED IN BID ITEMS 2, 3, 4, AND 5

ACT 287 AS AMENDED
 UTILITY LOCATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR, PER PA. ACT 287 TO CONTACT THE UTILITY COMPANIES FOR MORE ACCURATE LOCATION PRIOR TO ANY EXCAVATION.
 TO OBTAIN ADDITIONAL UTILITY INFORMATION OR TO ARRANGE FOR FIELD LOCATION OF EXISTING UTILITIES BEFORE EXCAVATION, CALL THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776. THE UTILITY COMPANIES SHOWN MAY OR MAY NOT HAVE UTILITY LINES IN THE AREA.
 CALL BEFORE YOU DIG !!
 (1) PENNSYLVANIA ONE CALL SYSTEM
 (2) MICHIGAN ONE CALL SYSTEM
 (3) MICHIGAN ONE CALL SYSTEM
 (4) MICHIGAN ONE CALL SYSTEM
 (5) MICHIGAN ONE CALL SYSTEM
 (6) MICHIGAN ONE CALL SYSTEM
 (7) MICHIGAN ONE CALL SYSTEM
 (8) MICHIGAN ONE CALL SYSTEM
 (9) MICHIGAN ONE CALL SYSTEM
 (10) MICHIGAN ONE CALL SYSTEM
 Pennsylvania One Call System, Inc.
 1-800-242-1776
 SERIAL NUMBER 20123192140

PENNDOT FORM 408 SPECIFICATION	ITEM	LIGHT DUTY PAVEMENT SECTION
SECTION 409, TYPE: 9.5 mm SUPERPAVE MIX	BITUMINOUS CONCRETE WEARING COURSE	1.5 IN.
SECTION 409, TYPE: 25 mm SUPERPAVE MIX	BITUMINOUS CONCRETE BINDER COURSE	4.5 IN.
SECTION 703, 2A COARSE AGGREGATE	AGGREGATE BASE COURSE	8.0 IN.

NO.	DESCRIPTION	DATE

CONSULTANTS:

SITE/CIVIL:
 SCOTT ROWLAND, P.E.
 LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES
 PROFESSIONAL ENGINEER
 PA LICENSE NO. PE-080563

ARCHITECT/ENGINEERS:

Miller-Remick LLC
 A.E.P. & Structural Engineering
 A Veteran Owned Small Business
 1010 KINGS HIGHWAY SOUTH
 BUILDING ONE - 1st FLOOR
 CHERRY HILL, NEW JERSEY 08034
 PHONE: (856)429-4000
 FAX: (856)429-5002

DETAILS

Approved Project Director

Project Title
 AE - UNIVERSITY DRIVE RESEARCH BUILDING ADDITION

Project Number
 VA244-P-1749

Building Number
 NO. 30

Location
 VA HEALTHCARE, PITTSBURGH PA

Date
 05/03/2013

Checked
 SDR

Drawn
 NMP
 CLJ

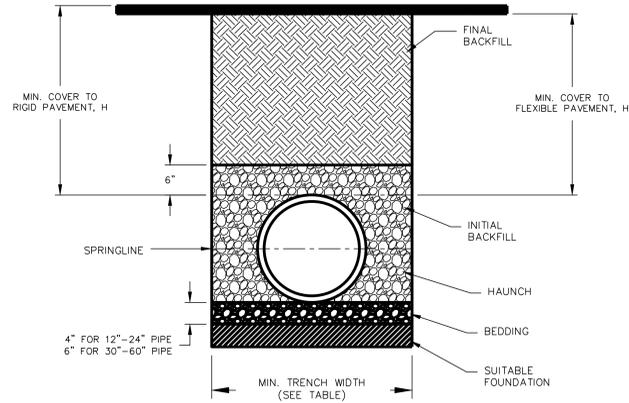
Drawing Number
 GI-501

Dwg. 11 of 166

Office of Construction and Facilities Management

Department of Veterans Affairs

BID DOCUMENTS - NOT FOR CONSTRUCTION FULLY SPRINKLERED



RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

- NOTES:
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
 - FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 - BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
 - INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 - MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80**
UP TO 24"	24"
30"-36"	36"
42"-60"	48"

** COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE
 *** E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.

Δ 2007 ADS, INC.

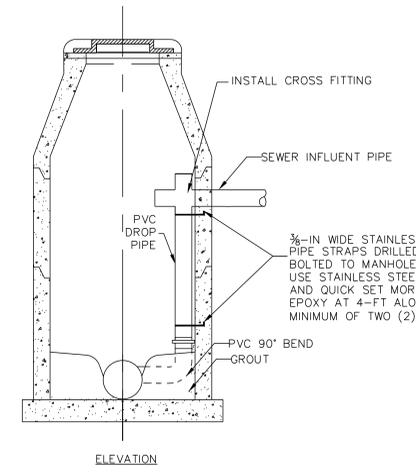
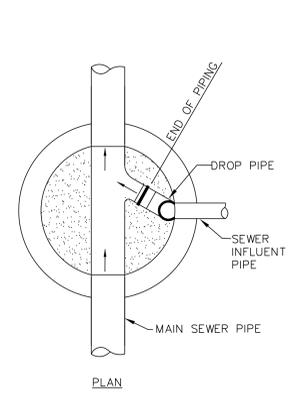
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

TYPICAL TRENCH DETAIL

DRAWING NUMBER: STD-101

4640 TRUEMAN BLVD
 HILLIARD, OHIO 43026
 ADVANCED DRAINAGE SYSTEMS, INC.

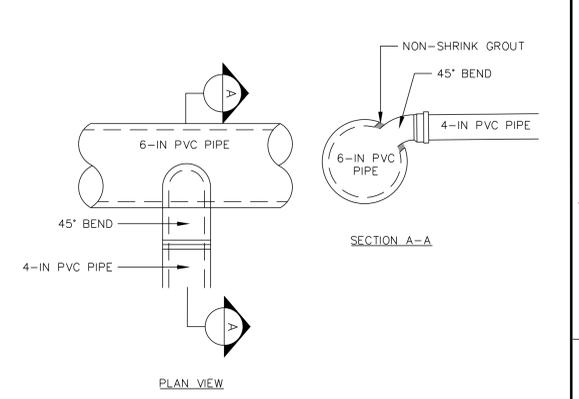
1. HDPE PIPE DETAIL



- NOTES:
- DROP PIPE SHALL BE ONE SIZE LARGER THAN SEWER INFLUENT PIPE.
 - ALL DROP MANHOLES SHALL BE 72" IN DIAMETER.
 - NO DROP MANHOLE PIPING SHALL BE REQUIRED IN SEWER INFLUENT PIPE FLOWLINE IS 24" OR LESS ABOVE MAIN SEWER PIPE FLOWLINE'S OR IN MAIN SEWER PIPE BENCH IS HIGHER THAN SEWER INFLUENT FLOWLINE.

2. PRIVATE DROP MANHOLE

N.T.S.



3. SANITARY SEWER T-CONNECTION

N.T.S.

ACT 287 AS AMENDED

UTILITY LOCATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR, PER PA ACT 287 TO CONTACT THE UTILITY COMPANIES FOR MORE ACCURATE LOCATION PRIOR TO ANY EXCAVATION.

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CALL BEFORE YOU DIG !!
 (1) WORKING DAYS AHEAD FOR
 (2) WORKING DAYS AHEAD FOR
 (10) WORKING DAYS TO DESIGN STAGE
 - 8:00 AM - 5:00 PM - 7 DAYS A WEEK

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

SERIAL NUMBER 20123192140

BID DOCUMENTS - NOT FOR CONSTRUCTION
 FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

SITE/CIVIL:
 SCOTT ROWLAND, P.E.
 LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES
 PROFESSIONAL ENGINEER
 PA LICENCE NO. PE-080563

ARCHITECT/ENGINEERS:

Miller-Remick LLC
 M.E.P. & Structural Engineering
 A Veteran Owned Small Business
 1010 KINGS HIGHWAY SOUTH
 BUILDING ONE - 1st FLOOR
 CHERRY HILL, NEW JERSEY 08034
 PHONE: (856)429-4000
 FAX: (856)429-5002

LANGAN
 ENGINEERING & ENVIRONMENTAL SERVICES
 601 Technology Drive, Suite 200
 Canonsburg, PA, 15317-9540
 P: 724.514.5100 F: 724.514.5101
 www.langan.com

Drawing Title
DETAILS

Approved Project Director

Project Title
AE - UNIVERSITY DRIVE RESEARCH BUILDING ADDITION

Project Number
VA244-P-1749

Building Number
NO. 30

Location
VA HEALTHCARE, PITTSBURGH PA

Date
05/03/2013

Checked
SDR

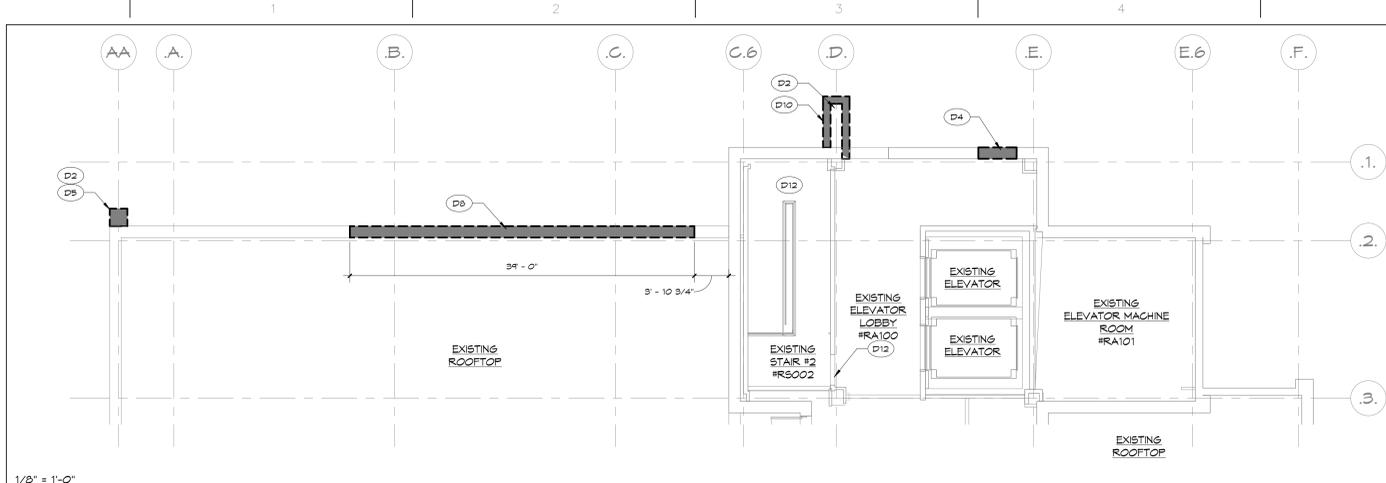
Drawn
NMP CLJ

Drawing Number
GI-502

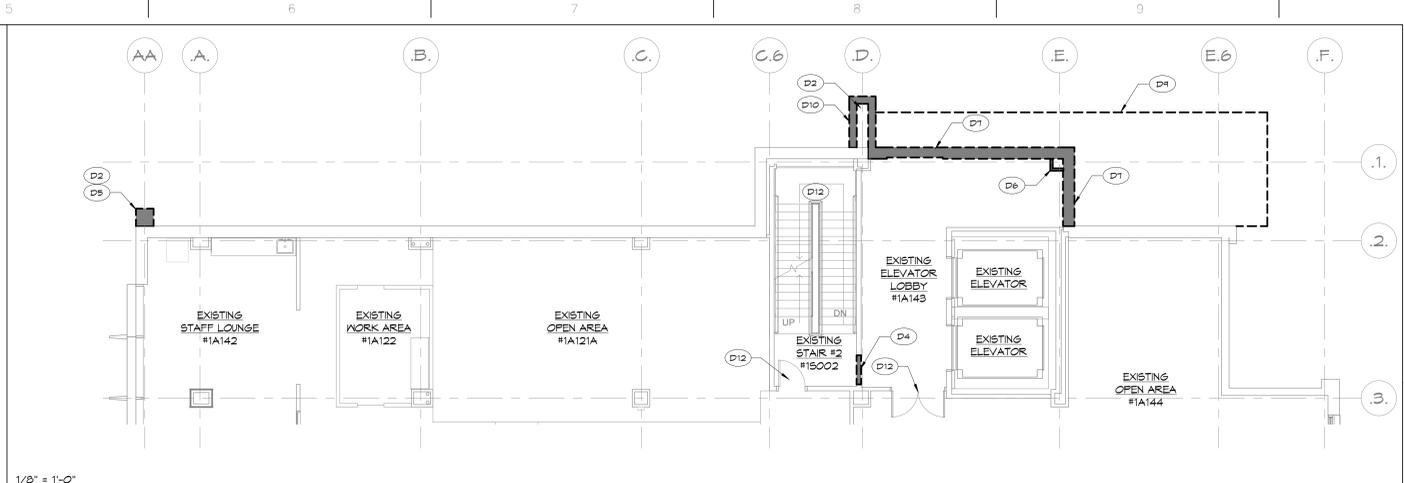
Dwg. 12 of 166

Office of Construction and Facilities Management

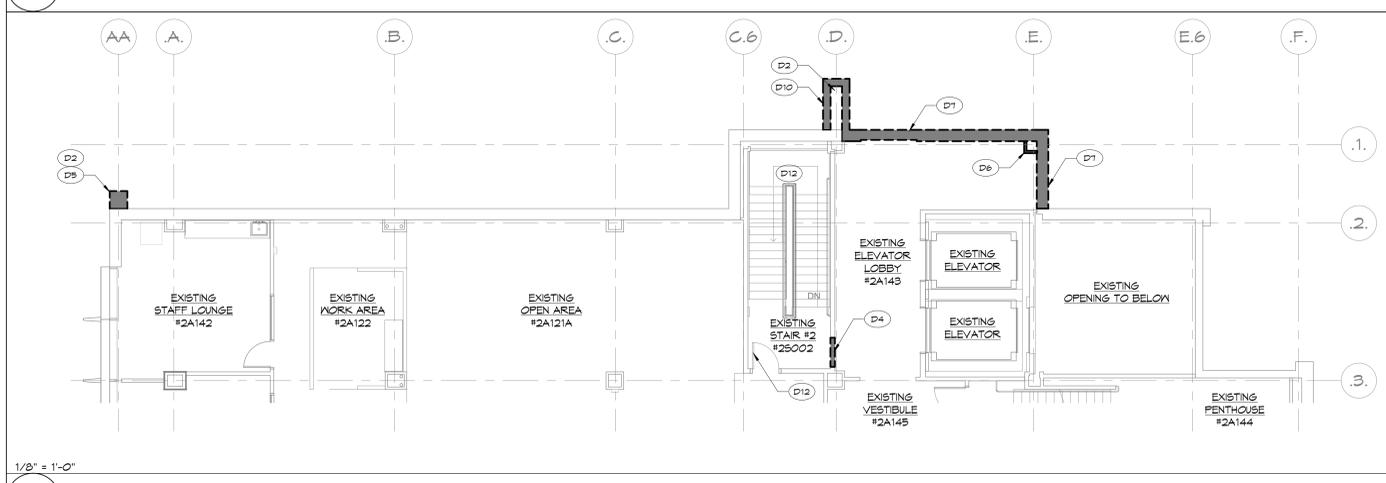
Department of Veterans Affairs



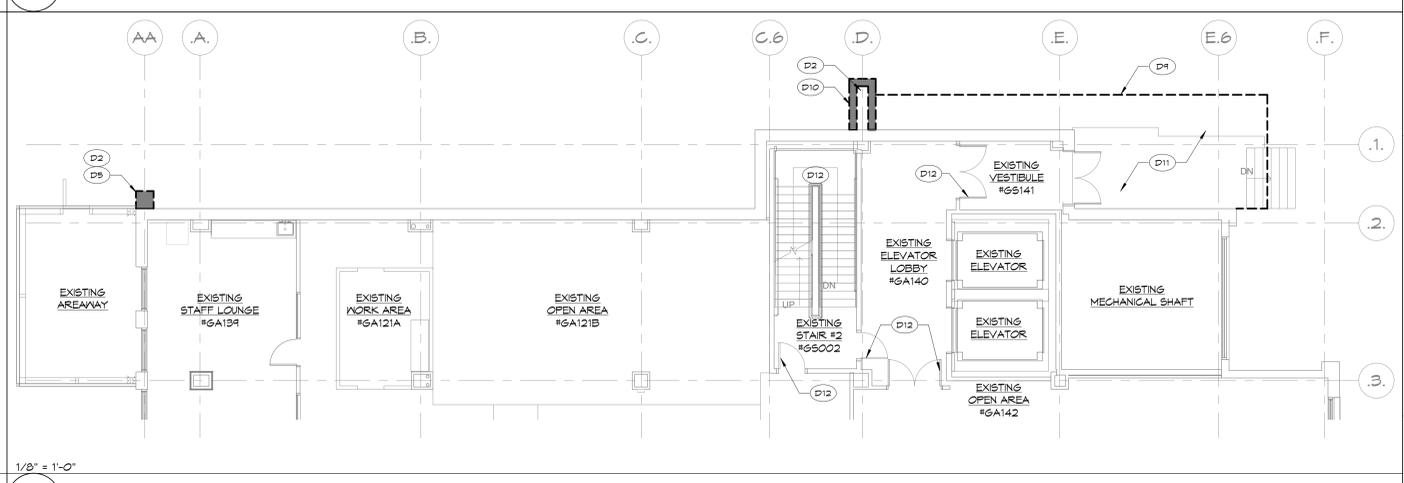
4 ROOF LEVEL DEMOLITION PLAN



1 1ST LEVEL DEMOLITION PLAN



5 2ND LEVEL DEMOLITION PLAN

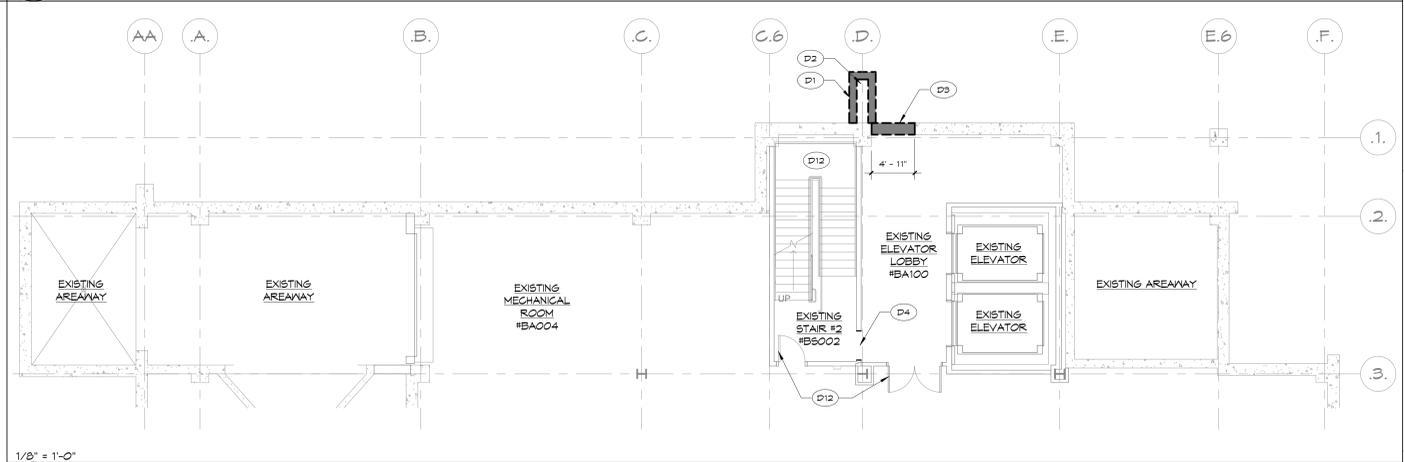


2 GROUND LEVEL DEMOLITION PLAN

- ### DEMOLITION NOTES
- DO NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH SPACE AND TO FULFILL THE INTENT OF THE WORK INDICATED BY THE CONTRACT DOCUMENTS. VERIFY EXTENT OF ALL DEMOLITION WITHIN THE CONTRACT LIMITS. BRING DEVIATIONS FROM THE CONTRACT DOCUMENTS NECESSITATED BY FIELD CONDITIONS TO THE ATTENTION OF THE ARCHITECT. THE EXTENT OF DEMOLITION AND REMOVAL WORK IS SHOWN ON THE DRAWINGS AND INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING ITEMS LISTED BELOW.
 - REMOVE EXISTING PARTITIONS, CEILING, DOORS, WINDOWS, PLUMBING FIXTURES, MECHANICAL SYSTEMS, LIGHTING FIXTURES, AND RELATED WORK AS INDICATED ON DRAWINGS AND AS REQUIRED FOR NEW WORK.
 - IN ALL AREAS SCHEDULED TO RECEIVE NEW FLOOR FINISHES, REMOVE ALL FLOORING MATERIALS DOWN TO EXISTING SLAB (WHERE REQUIRED, ANY AREA OF EXISTING FLOORING THAT IS SECURELY ATTACHED, CAN REMAIN PER NEW FLOORING MANUFACTURER'S ACCEPTANCE).
 - CAP OFF AND RELOCATE UTILITIES AS REQUIRED TO MAINTAIN EXISTING SERVICES AND SYSTEMS, COMPLY WITH APPLICABLE CODES AND REGULATIONS.
 - DISPOSAL OF MATERIALS: REMOVE ALL DEBRIS, TRASH AND NON-SALVAGEABLE ITEMS FROM SITE IN MANNER ACCEPTABLE TO OWNER; DISPOSE OF OFF-SITE IN LEGAL MANNER.
 - REMOVE EXISTING BASES WHERE THEY INTERFERE WITH GASBACKWORK INSTALLATION.
 - WHERE EXISTING CEILING ARE SCHEDULED TO REMAIN, REMOVE EXISTING CEILING ONLY TO EXTENT SHOWN OR REQUIRED TO ACCOMMODATE HVAC, PLUMBING, ELECTRICAL, OR OTHER WORK. REMOVE SUSPENDED ACoustic TILE CEILING AS INDICATED. REPAIR ANY DAMAGE TO CEILING CAUSED BY NEW WORK.
 - CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
 - IN ALL AREAS SCHEDULED TO RECEIVE NEW FINISHES, REMOVE EXISTING APPLIED FINISHES, BUMPER GUARDS, HANDRAILS, APPLIED BASE, ETC.
 - REFER TO ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION WORK. WHERE SUCH WORK OCCURS, ARCHITECTURAL ITEMS AND FINISHES SHALL BE REMOVED ONLY TO THE EXTENT REQUIRED.
 - CONTRACTOR IS TO PROVIDE ALL NECESSARY SHORING AND BRACING TO SUPPORT EXISTING STRUCTURE UNTIL PERMANENT SUPPORTS ARE ERIGED, TAKE ALL NECESSARY MEASURES TO PREVENT COLLAPSE OF WALLS, SLABS, ETC.
 - CONSTRUCTION TO REMAIN SHALL BE FULLY PROTECTED FROM DAMAGE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE AND SHALL MAKE REPAIRS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.
 - NOTIFY THE ARCHITECT IF UNDOCUMENTED STRUCTURAL MEMBERS ARE UNCOVERED DURING THE COURSE OF DEMOLITION. KEEP ARCHITECT NOTIFIED OF PROGRESS.
 - CONTRACTOR IS TO COORDINATE ALL INDICATED DEMOLITION WITH NEW CONSTRUCTION TO INSURE PROPER LOCATION AND DIMENSION OF DEMOLISHED AREAS. INFORM ARCHITECT OF ANY DISCREPANCIES.
 - INCLUDED IN SCOPE IS ANY WORK REQUIRED TO BE DONE ON FLOORS ABOVE OR BELOW DEMOLITION AREAS, INCLUDING BUT NOT LIMITED TO ACCESSING OR REROUTING UTILITIES. EXISTING CONDITIONS TO REMAIN ARE TO BE PROTECTED FROM DAMAGE.
 - CONTRACTOR IS RESPONSIBLE FOR CUTTING OPENINGS IN EXISTING WALLS. SEE PLANS AND DETAILS ON ARCHITECTURAL STRUCTURAL DRAWINGS FOR LOCATIONS OF OPENINGS WHICH REQUIRE STRUCTURAL SUPPORT. PROVIDE PROPER SHORING WHERE NECESSARY.
 - ALL HVAC, ELECTRICAL AND PLUMBING EQUIPMENT UNCOVERED DURING THE COURSE OF DEMOLITION THAT IS NOT INDICATED TO BE TIED INTO NEW CONSTRUCTION OR TO BE RELOCATED IS TO BE CAPPED OFF, COVERED, AND LOCATION NOTED FOR FUTURE USE.
 - ALL WORK AND SHUT DOWNS MUST BE COORDINATED WITH THE OWNER/USER AT LEAST 12 HRS IN ADVANCE.
 - WHERE APPLICABLE, DAMAGED CEILING TILES ARE TO BE REMOVED AND REPLACED. WHERE NEW CEILING CONSTRUCTION IS INDICATED, REMOVE EXISTING FLUORESCENT LIGHTING FIXTURES WITHOUT DAMAGE THERETO, AND SAVE FOR USE AS DIRECTED BY OWNER. ANY DISPOSAL OF SAME TO BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
 - EXISTING WALL FINISHES TO REMAIN INTACT, EXCEPT AS OTHERWISE NOTED. WHERE DAMAGE IS INCURRED, OR PATCHING IS REQUIRED DUE TO DEMOLITION, PROVIDE NEW FINISH TO MATCH EXISTING SURFACE, FLUSH WITH EXISTING.
 - AT WALL SURFACES SCHEDULED FOR PARTIAL DEMOLITION, REMOVE VINYL BASE, BUMPER GUARDS, HANDRAILS, ETC. ONLY TO THE EXTENT REQUIRED TO ACCOMMODATE DEMOLITION. ALTER AS REQUIRED AND REINSTALL TERMINATION TRIM AND ENDCAPS AS REQUIRED.
 - ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL ORDINANCES AND BUILDING CODES.
 - OWNER IS RESPONSIBLE FOR INSPECTION, REMEDIATION, AND DISPOSAL OF ALL HAZARDOUS MATERIALS.
 - RENOVATION AREAS SHALL BE ISOLATED FROM OCCUPIED AREAS DURING CONSTRUCTION USING TEMPORARY WALLS, AS IN DETAIL 1 BELOW, AND EXHAUST AIRFLOW SHALL BE SUFFICIENT TO MAINTAIN NEGATIVE PRESSURE IN THE CONSTRUCTION ZONE.
 - EXISTING AIR QUALITY REQUIREMENTS AND OTHER UTILITY REQUIREMENTS FOR OCCUPIED AREAS SHALL BE MAINTAINED.
 - MAINTAIN INTEGRITY OF ALL EXISTING FIRE PROOFINGS ON ALL STRUCTURAL BEAMS, COLUMNS AND PENETRATIONS. REPAIR AS REQUIRED WHEN DAMAGED IN COURSE OF WORK.

DEMOLITION KEY NOTES - (D1)

KEYNOTE #	DESCRIPTION
D1	REMOVE EXISTING FOUNDATION FOR METAL PANEL WALL ABOVE. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS.
D2	REMOVE EXISTING STL. COLUMN. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
D3	REMOVE PORTION OF EXISTING FOUNDATION WALL CONSTRUCTION FROM T.O.S. AT BASEMENT LEVEL TO UNDERSIDE OF STRUCTURAL STEEL AT 1ST LEVEL. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION & DETAILS.
D4	REMOVE PORTION OF EXISTING WALL FOR NEW OPENING. REFER TO FLOOR PLANS FOR DIMENSIONS.
D5	REMOVE EXISTING MASONRY 4 MTL. STUD PIER TO ALIGN WITH FINISH FACE OF EXISTING BUILDING. PATCH OPENING TO MATCH EXISTING EXTERIOR WALL & PREPARE AREA FOR NEW WORK.
D6	REMOVE EXISTING MASONRY EXTERIOR WALL CONSTRUCTION FROM T.O.S. AT 1ST LEVEL TO UNDERSIDE OF STRUCTURAL STEEL AT 2ND LEVEL. REMOVE EXISTING FIRE STOPPING AT FLOOR SLABS AND PREPARE AREA FOR NEW WORK.
D7	REMOVE EXISTING MASONRY EXTERIOR WALL CONSTRUCTION FROM T.O.S. AT 1ST LEVEL TO UNDERSIDE OF STRUCTURAL STEEL AT 2ND LEVEL. REMOVE EXISTING FIRE STOPPING AT FLOOR SLABS AND PREPARE AREA FOR NEW WORK.
D8	REMOVE PORTION OF EXISTING ROOF PARAPET AND UNDERLYING STRUCTURE. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
D9	LINE OF EXISTING CANOPY TO BE REMOVED. REMOVE CANOPY AND ASSOCIATE STRUCTURE. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS. PATCH OPENING TO MATCH EXISTING EXTERIOR WALL & PREPARE AREA FOR NEW WORK.
D10	REMOVE EXISTING METAL PANEL WALL 4 MTL. STUD PIER. PATCH OPENING TO MATCH EXISTING EXTERIOR WALL & PREPARE AREA FOR NEW WORK.
D11	EXISTING SITE WORK TO BE REMOVED & RECONSTRUCTED AS REQUIRED IN ORDER TO INSTALL NEW CONSTRUCTION. REFER TO CIVIL DOCUMENTS FOR ADDITIONAL INFORMATION & DETAIL.
D12	MAINTAIN EXISTING EGRESS THROUGHOUT THE DURATION OF THE PROJECT.



3 BASEMENT LEVEL DEMOLITION PLAN

DEMOLITION LEGEND

- REMOVE EXISTING WALL
- REMOVE EXISTING DOOR AND FRAME
- REMOVE PLUMBING FIXTURE. SEE PLUMBING FOR MORE INFORMATION.

**BID DOCUMENTS - NOT FOR CONSTRUCTION
FULLY SPRINKLERED**

NO.	DESCRIPTION	DATE

CONSULTANTS:

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Drawing Title
DEMOLITION FLOOR PLANS
Approved: Project Director

Project Title
AE - UNIVERSITY DRIVE RESEARCH BUILDING ADDITION
Location
VA HEALTHCARE, PITTSBURGH PA
Date
MAY 5, 2013
Checked
WRN
Drawn
KE

Project Number
VA244-P-1749
Building Number
NO. 30
Drawing Number
DS1.01
Drawing 13 of 166

Office of Construction and Facilities Management
Department of Veterans Affairs

