SECTION 00 91 12

ADDENDUM NUMBER 3

PARTICULARS

1.01 DATE: February 23, 2022

1.02 PROJECT: Pierpont Vet Tech

1.03 OWNER: WV Higher Education

1.04 ARCHITECT: PICKERING ASSOCIATES

TO: PROSPECTIVE BIDDERS:

2.01 THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE ORIGINALPROCUREMENT DOCUMENTS DATED FEBRUARY 1, 2022, WITH AMENDMENTS AND ADDITIONS NOTED BELOW.

2.02 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.

SPECIFICATIONS:

1. Section 00100 - Invitation to Bid: Page 2: **REVISION TO BID DATE**: Sealed bids will be received until 3:00 PM, Eastern Time, **Tuesday, March 8, 2022**. All other information regarding submitting bids is still applicable.

DRAWINGS:

1. See revisions shown bubbled on the following attached reissued 24 x 36 Drawings:
    a. Civil: C100, CD100, CD101, C101, C102, C103, C104, C105, C106, C107, C500, C501 & C600.
    b. Structural: S000, S001, S111, S112, S300 & S500.
    c. Architectural: A301.
    d. Mechanical: M111, M400, M401, M500 & M600.

CONTRACTOR QUESTIONS:

Q1: The site plans show the new sanitary service for the addition but does not show where it ties into the local utility service line. Can this information be provided?

A1: More information to be provided in future addendum.

Q2: Can the Bid date be extended?

A2: Yes, the new Bid Date is March 8th at 3:00 pm.

END OF SECTION

LEGEND

THESE SYMBOLS AND LINES MAY BE FOUND IN THE DRAWING.

- SET 5/8" CAPPED REBAR LABELED CONTROL POINT
- PK NAIL SET
- SIGN
- BOLLARD
- VERTICAL PIPE
- GAS METER
- GAS VALVE
- UTILITY POLE
- GUIDE WIRE
- STORM INLET
- WATER METER
- SPOT ELEVATION
- LS LANDSCAPE AREA
- RIP RAP

- AERIAL UTILITY
- BURIED COMMUNICATION
- GUIDE WIRE
- CHAIN LINK FENCE
- STORM SEWER
- GAS LINE
- WATER LINE
- TREE LINE
- ROAD STRIPE
- STRUCTURE

GENERAL SURVEY NOTES:

UTILITIES:

UTILITY LOCATIONS SHOWN ARE A COMPILATION OF FIELD VERIFICATION, & UTILITY COMPANY LOCATION REVIEW SPECIFIC CONSTRUCTION AREA WITH UTILITY COMPANIES BEFORE CONSTRUCTION. UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THIS DRAWING AND LOCATIONS SHOWN MAY VERY GREATLY FROM ACTUAL LOCATION.

UTILITY CONFIRMATION #2008697474

COORDINATES:

ELEVATIONS BASED UPON OPUS SOLUTION NAVD 1988
COORDINATES BASED UPON OPUS SOLUTION NAD83 WV STATE PLANE COORDINATES NORTH ZONE

PHOTOGRAMMETRY:

BACKGROUND PHOTO OBTAINED FROM WV SHERIFFS ASSOCIATION 2010-2011 12" IMAGERY AND IS INTENDED FOR SURVEY ORIENTATION ONLY.

LIMITATIONS OF SURVEY:

NO OPINION IS MADE OR EXPRESSED CONCERNING THE EXISTENCE OF WETLANDS, FLOOD HAZARDS, ENVIRONMENTAL CONDITIONS, HAZARDOUS MATERIALS, UTILITIES, OR ITEMS THAT MAY EFFECT THE USE OF THE PROPERTY SURVEYED.

PICKERING ASSOCIATES
Architects • Engineers • Surveyors
11283 Emerson Avenue
Parkersburg, WV 26104
Phone: (304) 464-5305
Fax: (304) 464-4428

Rev.	Description	By	Date
0	ISSUED FOR BID	SLK	02/01/22
1	ISSUED FOR ADDENDUM	SLK	02/23/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
EXISTING CONDITIONS PLAN

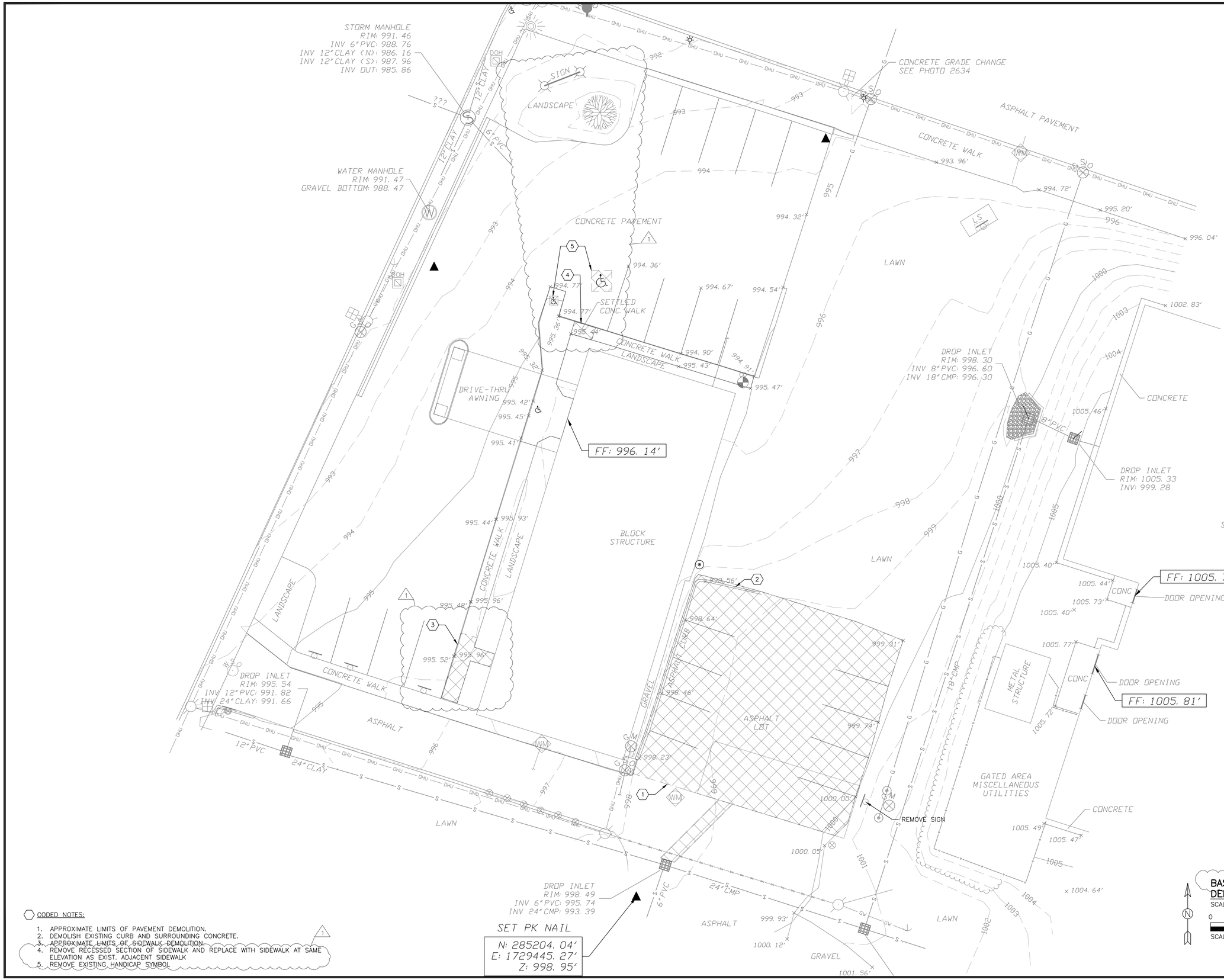
SPENCER KIMBLE PICKERING
REGISTERED
19192
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/23/22
Revision: 1
Drawing Number:
C100

1 BASE BID & ALTERNATES EXISTING CONDITIONS PLAN
SCALE: 1"=10'

N

0 5 10 20
SCALE: 1"=10'



CODED NOTES:

1. APPROXIMATE LIMITS OF PAVEMENT DEMOLITION.
2. DEMOLISH EXISTING CURB AND SURROUNDING CONCRETE.
3. APPROXIMATE LIMITS OF SIDEWALK DEMOLITION.
4. REMOVE RECESSED SECTION OF SIDEWALK AND REPLACE WITH SIDEWALK AT SAME ELEVATION AS EXIST. ADJACENT SIDEWALK
5. REMOVE EXISTING HANDICAP SYMBOL

1 BASE BID DEMO PLAN
SCALE: 1"=10'
0 5 10 20
SCALE: 1"=10'

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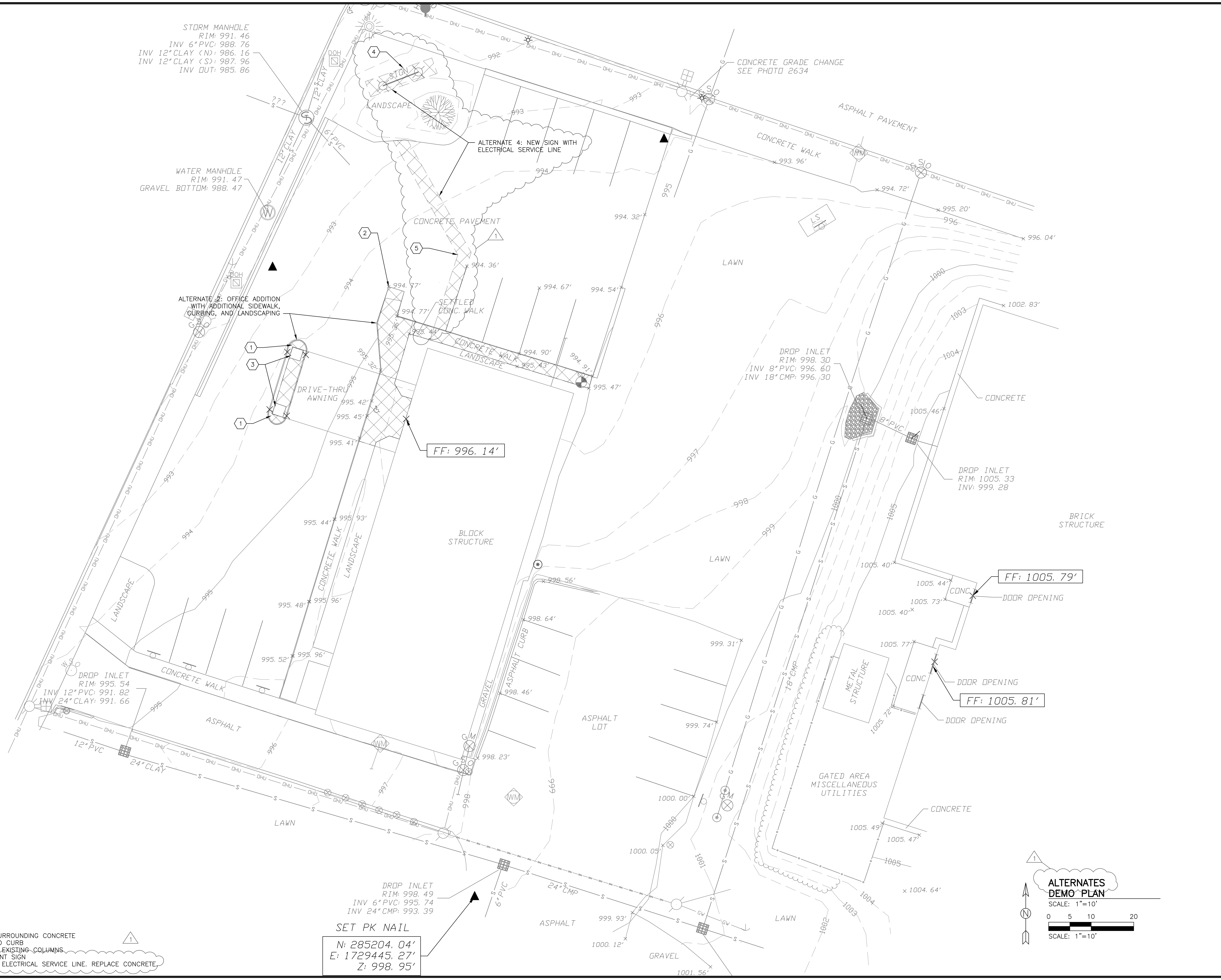
Fax: (304) 464-4428

Rev.	Description	By	Date
0	ISSUED FOR BID	SLK	02/01/22
1	ISSUED FOR ADDENDUM	SLK	02/23/22

Drawing Description
PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
DEMO PLAN (BASE)

SPENCER KIMBLE PICKERING
REGISTERED
19192
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/23/22
Revision: 1
Drawing Number:
CD100



CODED NOTES:

1. DEMOLISH EXISTING CURB AND SURROUNDING CONCRETE
2. DEMOLISH EXISTING SIDEWALK AND CURB
3. ~~PROTECT AND DO NOT DEMOLISH EXISTING COLUMNS~~
4. DEMOLISH AND REPLACE MONUMENT SIGN
5. SAWCUT EXISTING PAVEMENT FOR ELECTRICAL SERVICE LINE. REPLACE CONCRETE

PICKERING ASSOCIATES
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1	ISSUED FOR ADDENDUM	SLK	02/23/22
0	ISSUED FOR BID	SLK	02/01/22

Drawing Description
PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
DEMO PLAN (ALTERNATES)

SPENCER KIMBLE REGISTERED 19180 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

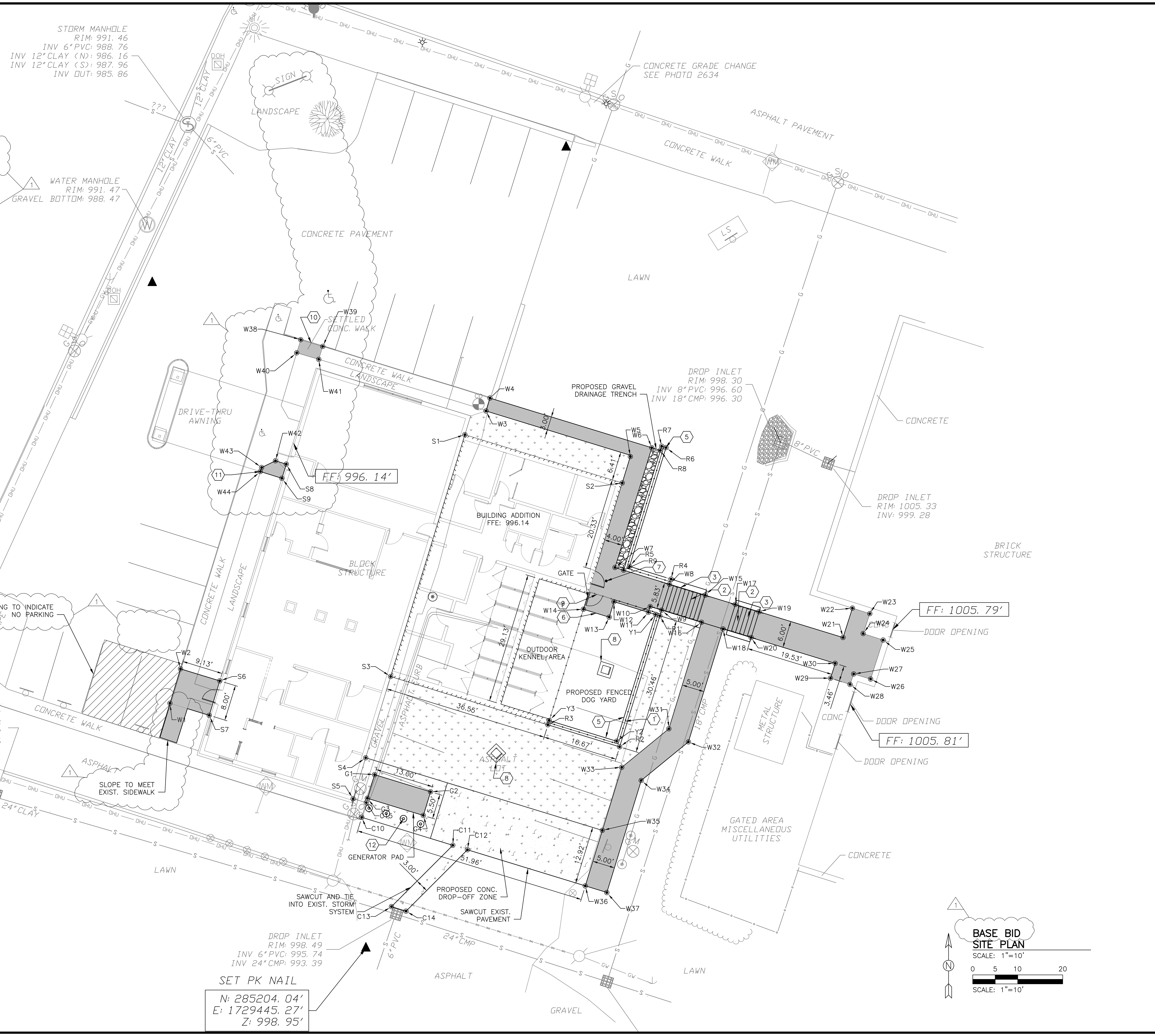
Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/01/22
Revision: 1
Drawing Number:
CD101

NOTES:

1. ALL SIDEWALKS SHALL BE SLOPED/GRADED PER ADA.
2. ALL AREAS NOT PLANNED TO BE PAVED SHALL BE GRASSED OR LANDSCAPED INSIDE LOD.
3. SEE SHEET C600 FOR GEOMETRIC LAYOUT TABLES

CODED NOTES:

1. 42" GUARDRAIL (SEE DETAIL 1/C501)
2. NEW STAIRS (SEE SECTIONS A/C501 AND B/C501)
3. ~~HANDRAIL (SEE SECTIONS A/C501 AND B/C501)~~
4.
5. KEYSTONE COMPAC – STRAIGHT SPLIT SEGMENTAL BLOCK RETAINING WALL OR APPROVED EQUAL. COORDINATE COLORS AND FINISHES WITH OWNER. CONTRACTOR TO SUBMIT WV PE STAMPED DESIGN FOR RETAINING WALL.
6. 6'X4' CONCRETE PAD
7. 6" WATTS FLOOR DRAIN
8. CATCH BASIN
9. 6' HIGH ALUMINUM FENCE & GATE AS SPECIFIED
10. REPLACE WITH SIDEWALK AT SAME ELEVATION AS EXIST. ADJACENT SIDEWALK
11. POUR NEW CONCRETE SIDEWALK
12. FOUR BOLLARDS AT 4' CENTERS (SEE DETAIL 2/C501)



LEGEND

(symbol)	LAWN/LANDSCAPING
(symbol)	CONCRETE SIDEWALK (SEE 4/C500 FOR DETAIL)
(symbol)	CONCRETE PAVEMENT

BASE BID SITE PLAN
SCALE: 1"=10'

0 5 10 20
SCALE: 1"=10'

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1	ISSUED FOR ADDENDUM	SLK	02/23/22
0	ISSUED FOR BID	SLK	02/01/22

Drawing Description
PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
SITE PLAN (BASE)

SPENCER KIMBLE REGISTERED 19196 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/23/22
Revision: 1
Drawing Number:
C101

NOTES:

1. ALL SIDEWALKS SHALL BE SLOPED/GRADED PER ADA.
2. ALL AREAS NOT PLANNED TO BE PAVED SHALL BE GRASSED OR LANDSCAPED INSIDE LOD.
3. SEE SHEET C600 FOR GEOMETRIC LAYOUT TABLE

CODED NOTES:

1.
2.
3.
4.

STORM MANHOLE
RIM: 991.46
INV 6"PVC: 988.76
INV 12"CLAY (N): 986.16
INV 12"CLAY (S): 987.96
INV OUT: 985.86

WATER MANHOLE
RIM: 991.47
GRAVEL BOTTOM: 988.47

CONCRETE GRADE CHANGE
SEE PHOTO 2634

ASPHALT PAVEMENT
CONCRETE WALK
LANDSCAPE
SIGN
12"CLAY
6"PVC
ALTERNATE 4: NEW SIGN WITH ELECTRIC SERVICE LINE
APPROXIMATE LIMITS OF EXCAVATION FOR ELECTRIC SERVICE LINE
ALTERNATE 2: OFFICE ADDITION WITH ADDITIONAL SIDEWALK, CURBING, AND LANDSCAPING
CONCRETE PAVEMENT
LAWN
SETTLED CONC. WALK
CONCRETE WALK
LANDSCAPE
DRIVE-THRU AWNING
3.18' MIN.
R20.00'
R5.00'
10.00'
8.00'
PROPOSED ENTRY RAMP
FF: 996.14'
BUILDING ADDITION FFE: 996.14
SEE BASE BID SITE PLAN FOR ADDITIONAL INFORMATION
DROP INLET
RIM: 998.30
INV 8"PVC: 996.60
INV 18"CMP: 996.30
CONCRETE
8"PVC
DROP INLET
RIM: 1005.33
INV: 999.28
ALTERNATE 1: ROOM ADDITION & ADDITIONAL SIDEWALK
3.00'
6.41'
9.28'
5.00'
17.25'
BRICK STRUCTURE
BUILDING ADDITION FFE: 996.14
BLOCK STRUCTURE
CONCRETE WALK
LANDSCAPE
SEE BASE BID SITE PLAN FOR ADDITIONAL INFORMATION
OUTDOOR KENNEL AREA
ALTERNATE 3: GROOMING ROOM ADDITION
CURB
GRAVEL
ASPHALT
ASPHALT LOT
18.87'
25.22'
FF: 1005.79'
CONC.
DOOR OPENING
FF: 1005.81'
DOOR OPENING
DOOR OPENING
METAL STRUCTURE
18"CMP
GATED AREA MISCELLANEOUS UTILITIES
CONCRETE
DROP INLET
RIM: 995.54
INV 12"PVC: 991.82
INV 24"CLAY: 991.66
ASPHALT
CONCRETE WALK
12"PVC
24"CLAY
LAWN
SAWCUT AND TIE INTO EXIST. STORM SYSTEM
PROPOSED CONC. DROP-OFF ZONE
SAWCUT EXIST. PAVEMENT
51.96'
12.92'
SEE BASE BID SITE PLAN FOR ADDITIONAL INFORMATION
DROP INLET
RIM: 998.49
INV 6"PVC: 995.74
INV 24"CMP: 993.39
6"PVC
24"CMP
ASPHALT
LAWN
GRAVEL
SET PK NAIL
N: 285204.04'
E: 1729445.27'
Z: 998.95'

LEGEND

- LAWN/LANDSCAPING
- CONCRETE SIDEWALK (SEE X/C500 FOR DETAIL)
- CONCRETE PAVEMENT

ALTERNATES SITE PLAN
SCALE: 1"=10'
0 5 10 20
SCALE: 1"=10'

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Fax: (304) 464-4428

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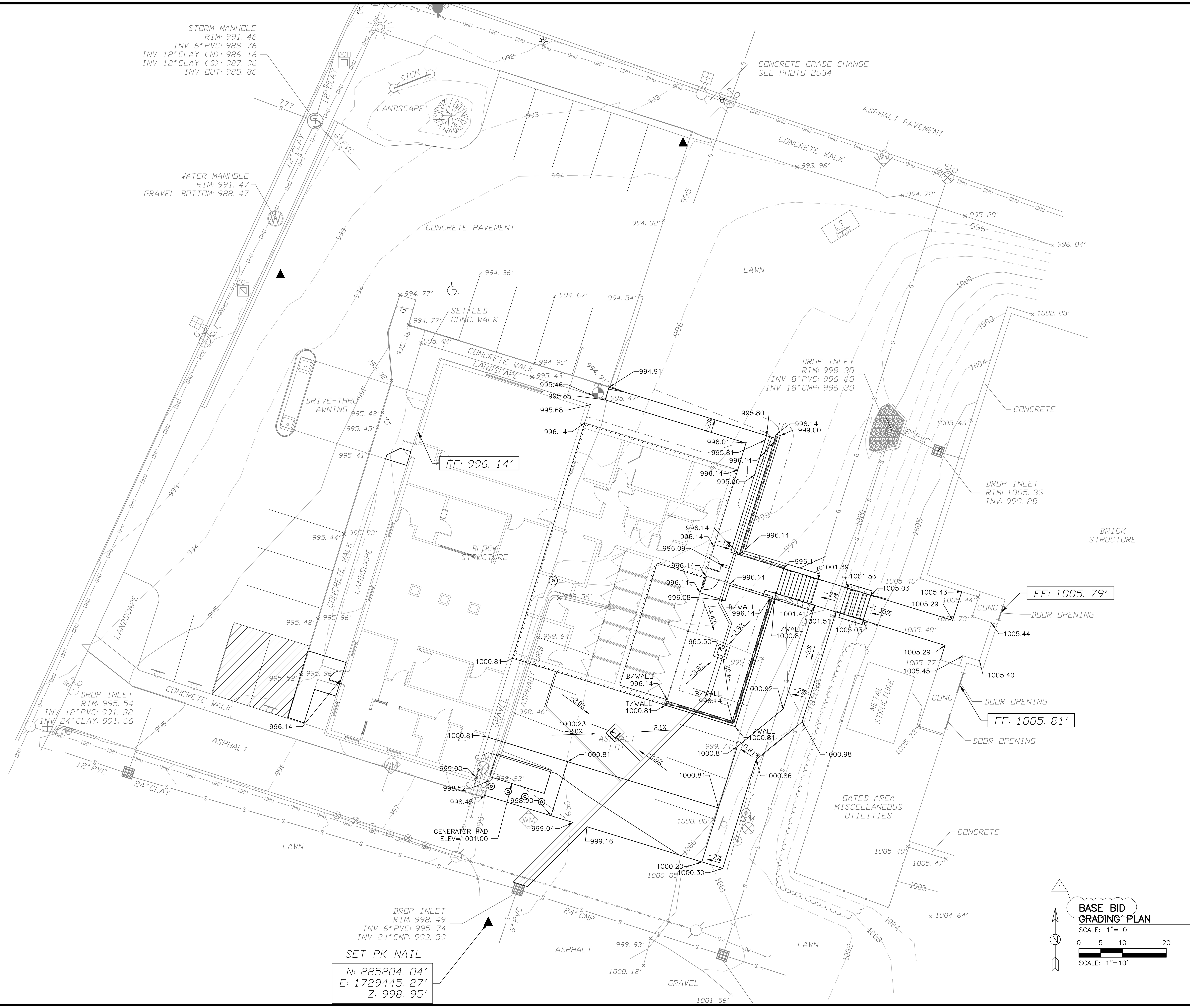
0	ISSUED FOR BID	SLK	02/01/22
1	ISSUED FOR ADDENDUM	SLK	02/23/22

Drawing Description
PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
SITE PLAN (ALTERNATES)

SPENCER KIMBLE II
REGISTERED
19157
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/23/22
Revision: 1
Drawing Number:
C102



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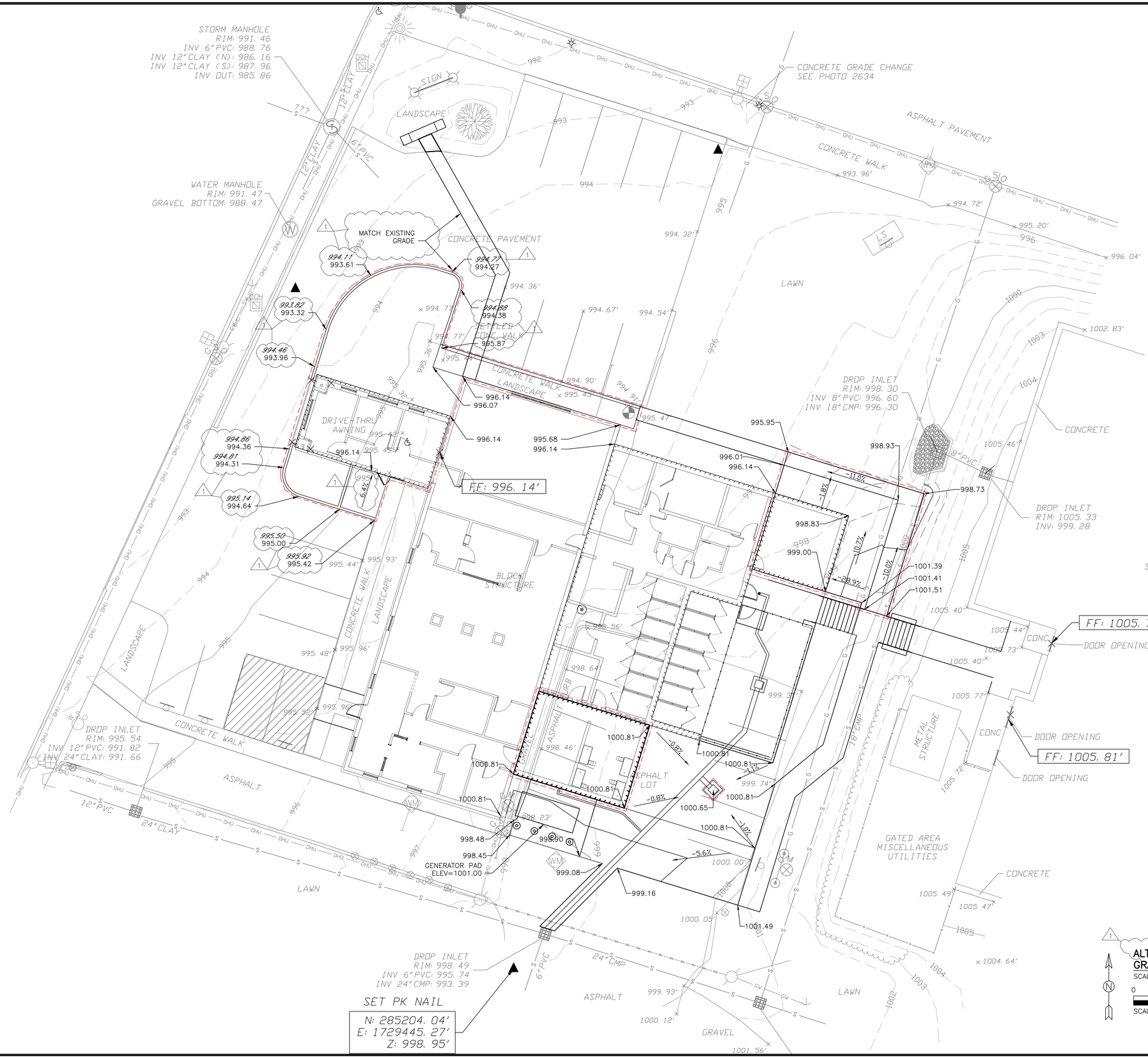
0	ISSUED FOR BID	SLK	02/01/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
GRADING PLAN (BASE)

SPENCER KIMBLE REGISTERED 19186 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/23/22
Revision: 1
Drawing Number:
C103



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Fax: (304) 464-4428

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1	ISSUED FOR ADDENDUM	SLK	02/23/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
GRADING PLAN (ALTERNATES)

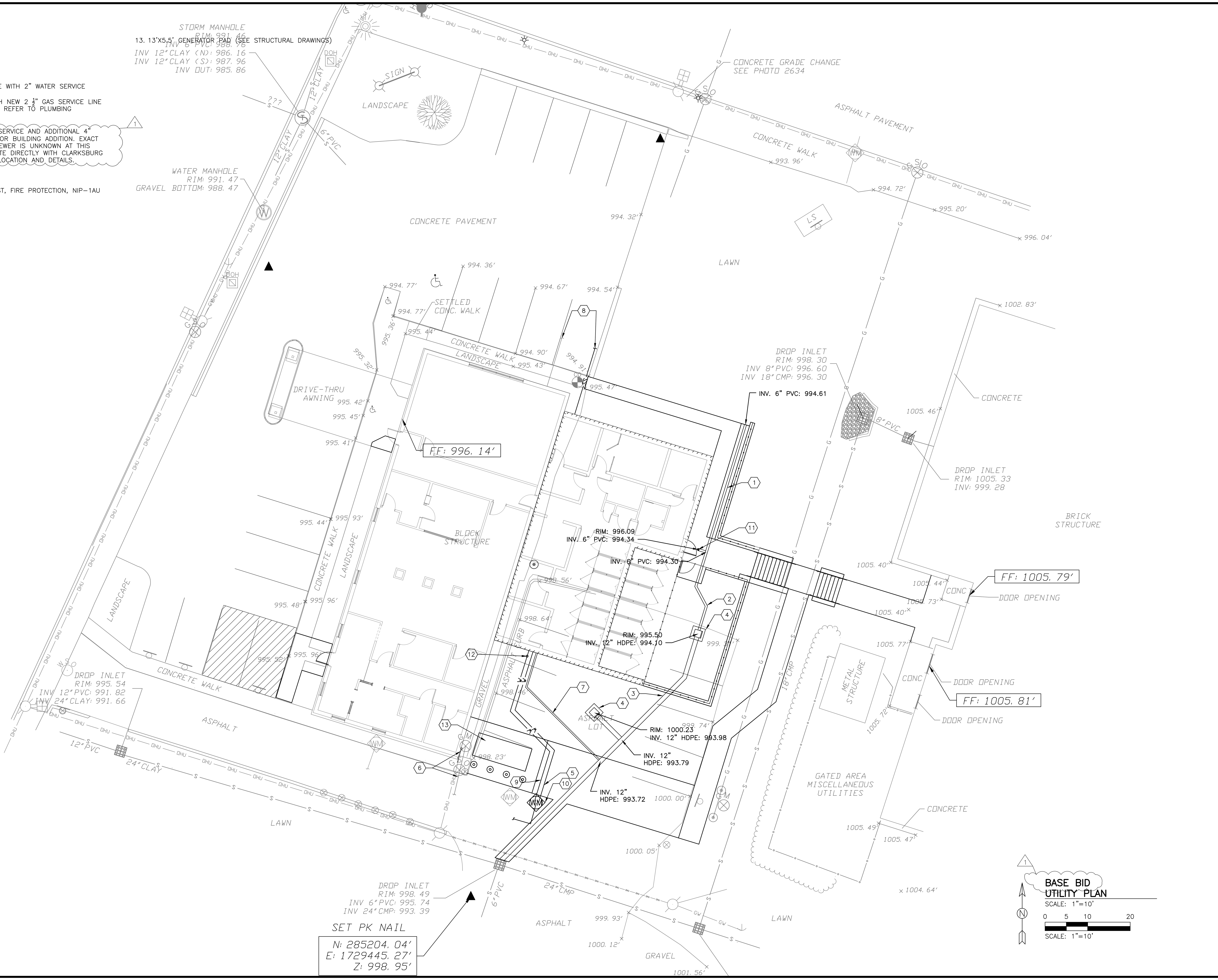
SPENCER KIMBLE PICKERING
REGISTERED
19121
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/23/22
Revision: 1

Drawing Number:
C104

CODED NOTES:

1. 6" PERFORATED UNDERDRAIN PIPE
2. 6" PVC PIPE
3. 12" HDPE PIPE
4. CATCH BASIN
5. REPLACE EXISTING ¾" WATER SERVICE WITH 2" WATER SERVICE FROM MAINLINE TIE–IN TO BUILDING
6. REPLACE EXISTING GAS SERVICE WITH NEW 2 ½" GAS SERVICE LINE FROM MAINLINE TIE–IN TO BUILDING. REFER TO PLUMBING DRAWINGS FOR SIZE AND DETAILS.
7. PROPOSED 4" STORM TIE–IN
8. EXISTING SANITARY WILL REMAIN IN SERVICE AND ADDITIONAL 4" SANITARY LINE WILL BE INSTALLED FOR BUILDING ADDITION. EXACT CONNECTION POINT FOR SANITARY SEWER IS UNKNOWN AT THIS TIME. CONTRACTOR SHALL COORDINATE DIRECTLY WITH CLARKSBURG PUBLIC WORKS FOR SEWER TIE–IN LOCATION AND DETAILS.
9. PROPOSED 4" FIRE WATER LINE
10. PROPOSED WATER METER
11. 6" WATTS FLOOR DRAIN
12. 4" PIV VALVE, NIBCO INDICATOR POST, FIRE PROTECTION, NIP–1AU (OR APPROVED EQUAL)
13. 13'X5.5' GENERATOR PAD (SEE STRUCTURAL DRAWINGS)



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1	ISSUED FOR ADDENDUM	SLK	02/23/22
0	ISSUED FOR BID	SLK	02/01/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
UTILITY PLAN (BASE)

SPENCER KIMBLE REGISTERED 19187 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/23/22
Revision: 1
Drawing Number:
C105

CODED NOTES:

1. 6" PVC PIPE
2. 12" HDPE PIPE
3. CATCH BASIN
4. REPLACE EXISTING ¾" WATER SERVICE WITH 2" WATER SERVICE FROM MAINLINE TIE-IN TO BUILDING
5. REPLACE EXISTING GAS SERVICE WITH NEW 2 ½" GAS SERVICE LINE FROM MAINLINE TIE-IN TO BUILDING. REFER TO PLUMBING DRAWINGS FOR SIZE AND DETAILS.
6. PROPOSED 4" STORM TIE-IN
7. EXISTING SANITARY WILL REMAIN IN SERVICE AND ADDITIONAL 4" SANITARY LINE WILL BE INSTALLED FOR BUILDING ADDITION. EXACT CONNECTION POINT FOR SANITARY SEWER IS UNKNOWN AT THIS TIME. CONTRACTOR SHALL COORDINATE DIRECTLY WITH CLARKSBURG PUBLIC WORKS FOR SEWER TIE-IN LOCATION AND DETAILS.
8. PROPOSED 4" FIRE WATER LINE
9. 6" WATTS FLOOR DRAIN
10. PROPOSED WATER METER
11. 4" PIV VALVE, NIBCO INDICATOR POST, FIRE PROTECTION, NIP-1AU (OR APPROVED EQUAL)
12. 13'X5.5' GENERATOR PAD (SEE STRUCTURAL DRAWINGS)

STORM MANHOLE
RIM: 991.46
INV 6"PVC: 988.76
INV 12"CLAY (N): 986.16
INV 12"CLAY (S): 987.96
INV OUT: 985.86

WATER MANHOLE
RIM: 991.47
GRAVEL BOTTOM: 988.47

CONCRETE GRADE CHANGE
SEE PHOTO 2634

ASPHALT PAVEMENT

CONCRETE WALK

LANDSCAPE

SIGN

CONCRETE PAVEMENT

LAWN

INSTALLED CONC. WALK

CONCRETE WALK
LANDSCAPE

DRIVE-THRU AWNING

FF: 996.14'

DROP INLET
RIM: 998.30
INV 8"PVC: 996.60
INV 18"CMP: 996.30

CONCRETE

8"PVC

DROP INLET
RIM: 1005.33
INV: 999.28

BRICK STRUCTURE

BLOCK STRUCTURE

RIM: 996.09
INV. 6" PVC: 994.34

INV. 6" PVC: 994.30

FF: 1005.79'

CONC.

DOOR OPENING

RIM: 995.50
INV. 12" HDPE: 994.10

CONCRETE WALK

LANDSCAPE

DROP INLET
RIM: 995.54
INV 12"PVC: 991.82
INV 24"CLAY: 991.66

ASPHALT

CURB

ASPHALT PARKING LOT

INV. 12" HDPE: 993.86

18"CMP

METAL STRUCTURE

CONC.

DOOR OPENING

FF: 1005.81'

DOOR OPENING

RIM: 1000.65
INV. 12" HDPE: 993.95

INV. 12" HDPE: 993.68

GATED AREA MISCELLANEOUS UTILITIES

CONCRETE

12"PVC

24"CLAY

LAWN

DROP INLET
RIM: 998.49
INV 6"PVC: 995.74
INV 24"CMP: 993.39

6"PVC

24"CMP

ASPHALT

LAWN

GRAVEL

SET PK NAIL
N: 285204.04'
E: 1729445.27'
Z: 998.95'

LEGEND

- LAWN/LANDSCAPING
- CONCRETE SIDEWALK (SEE X/C500 FOR DETAIL)
- CONCRETE PAVEMENT

1 ALTERNATES UTILITY PLAN
SCALE: 1"=10'

N
0 5 10 20
SCALE: 1"=10'

PICKERING ASSOCIATES
Architects • Engineers • Surveyors
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Parkersburg, WV 26104
Phone: (304) 464-5305
Fax: (304) 464-4428

Rev.	Description	By	Date
0	ISSUED FOR BID	SLK	02/01/22
1	ISSUED FOR ADDENDUM	SLK	02/23/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
UTILITY PLAN (ALTERNATES)

SPENCER KIMBLE PICKERING REGISTERED 19382 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	JMC
Drawn By:	JMC
Checked By:	SLK
Scale:	1"=10'
Plot Date:	02/23/22
Revision:	1
Drawing Number:	C106

STORMWATER NOTES

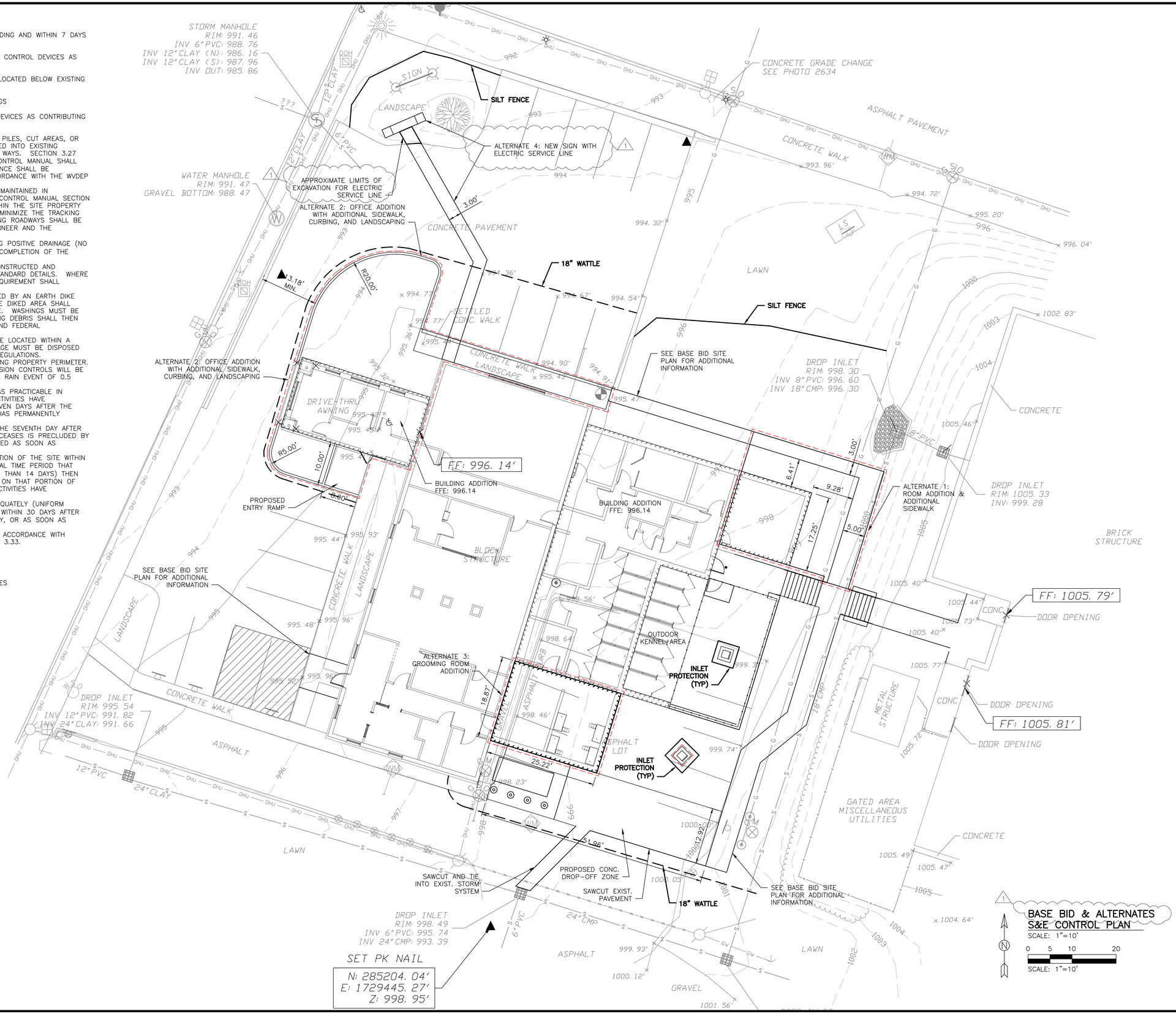
PROPOSED CONSTRUCTION SEQUENCE:

- INSTALL PERIMETER FILTER FABRIC FENCE PRIOR TO GRADING AND WITHIN 7 DAYS OF START OF GRUBBING
- CONSTRUCT CONSTRUCTION ENTRANCE
- PROVIDE ADDITIONAL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AS REQUIRED DURING CONSTRUCTION
- CONSTRUCT FILL AND CUT AS SHOWN ON DRAWINGS
- CONSTRUCT SITE UTILITIES AND STORM DRAINAGE LINES LOCATED BELOW EXISTING GRADE.
- CONSTRUCT BUILDING STRUCTURE
- PERFORM FINAL GRADING/PAVING AS SHOWN ON DRAWINGS
- PERMANENTLY SEED AND MULCH ALL DISTURBED AREAS
- REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AS CONTRIBUTING AREAS ARE STABILIZED

1. SILT FENCE SHALL BE PLACED ON LOW-SIDE OF STOCK PILES, CUT AREAS, OR FILL AREAS TO HELP LIMIT SEDIMENT FROM BEING WASHED INTO EXISTING STREETS, LAWNS, DRAINAGE STRUCTURES, AND DRAINAGE WAYS. SECTION 3.27 (SILT FENCE) OF THE WVDEP SEDIMENT AND EROSION CONTROL MANUAL SHALL BE REFERENCED FOR ADDITIONAL INFORMATION. SILT FENCE SHALL BE CONSTRUCTED, MANUFACTURED, AND MAINTAINED IN ACCORDANCE WITH THE WVDEP SEDIMENT AND EROSION CONTROL MANUAL.
2. CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE WVDEP SEDIMENT AND EROSION CONTROL MANUAL SECTION 3.02. CONSTRUCTION ENTRANCES MUST BE LOCATED WITHIN THE SITE PROPERTY LIMITS AND BE GRAVELED SUFFICIENTLY TO EFFECTIVELY MINIMIZE THE TRACKING OF SEDIMENTS OFF THE SITE. ENTRANCES AND RECEIVING ROADWAYS SHALL BE SWEPT/CLEANED IN A MANNER ACCEPTABLE TO THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE (NO STANDING WATER) IS ATTAINED THROUGHOUT AND UPON COMPLETION OF THE PROJECT.
4. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH WVDOH AND WVDEP STANDARD DETAILS. WHERE CONFLICTS ARE ENCOUNTERED, THE MOST STRINGENT REQUIREMENT SHALL CONTROL.
5. CEMENT TRUCK WASH-OUT AREAS SHALL BE SURROUNDED BY AN EARTH DIKE AND BE LOCATED AWAY FROM DRAINAGE CHANNELS. THE DIKED AREA SHALL HOLD A VOLUME EQUAL TO 110% OF THE LARGEST TANK. WASHINGS MUST BE CONTAINED ON-SITE UNTIL THEY HARDEN. ALL REMAINING DEBRIS SHALL THEN BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
6. REFUELING, MAINTENANCE, AND STORAGE AREAS SHALL BE LOCATED WITHIN A DIKED AND IMPERVIOUS AREA. TOXIC WASTE AND SPILLAGE MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
7. WHERE POSSIBLE, LEAVE EXISTING VEGETATIVE STRIP ALONG PROPERTY PERIMETER.
8. AT A MINIMUM, INSPECTIONS OF ALL SEDIMENT AND EROSION CONTROLS WILL BE CONDUCTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAIN EVENT OF 0.5 INCHES OR GREATER IN 24 HOURS.
9. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE NOTED WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
10. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
11. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
12. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
13. ALL STORM INLETS SHALL RECEIVE INLET PROTECTION IN ACCORDANCE WITH WVDEP SEDIMENT & EROSION CONTROL MANUAL SECTION 3.33.

GRADING NOTES:

A. ALL SPOT ELEVATIONS REPRESENT FINISHED SURFACES.
B. EXCESS CUT MATERIAL NOT USED FOR GRADING PURPOSES AS SHOWN ON THESE PLANS SHALL BE REMOVED FROM THE PROJECT SITE.
C. ALL CONTOURS REPRESENT TOP OF FINISHED SURFACE (I.E. TOP OF CONCRETE, TOP OF STONE, ETC).
D. THE FINAL TOP 6" OF SOIL NOT COVERED BY BUILDINGS OR PAVEMENT SHALL BE OF THE TYPE TO ADEQUATELY SUPPORT LAWN TYPE PERMANENT SEEDING.
E. THE CONTRACTOR SHALL ENSURE THAT THERE IS NO STANDING OR POOLING SURFACE WATER ON THE SITE AFTER FINAL CONSTRUCTION.
F. THE CONTRACTOR SHALL ENSURE THAT ALL SURFACE WATER IS DIRECTED AWAY FROM THE PROPOSED STRUCTURE.



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Rev.	Description	By	Date
0	ISSUED FOR BID	SLK	02/01/22
1	ISSUED FOR ADDENDUM	SLK	02/23/22

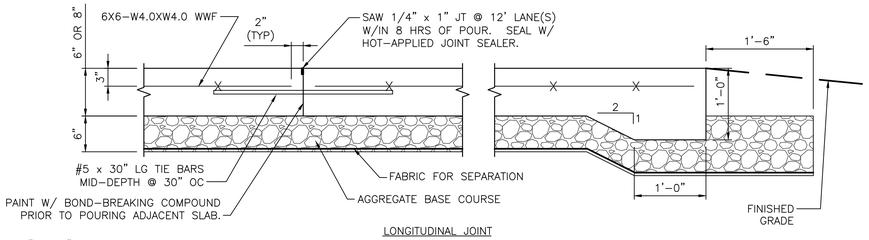
Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
SEDIMENT & EROSION CONTROL PLAN

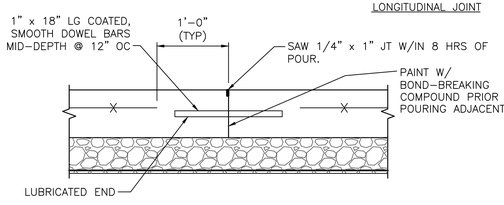
SPENCER KIMBLE PICKERING
REGISTERED
19180
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/23/22
Revision: 1

Drawing Number:
C107

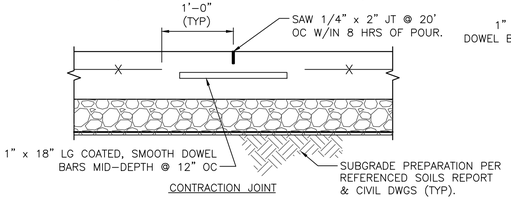


LONGITUDINAL JOINT

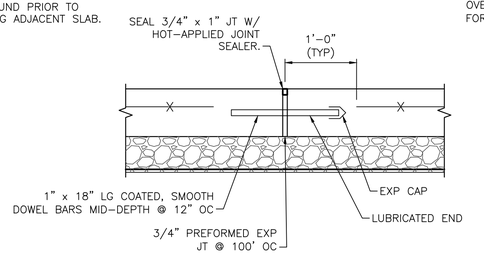


CONSTRUCTION JOINT

(LOCATED AT CONTRACTION JOINT LOCATIONS)



CONTRACTION JOINT



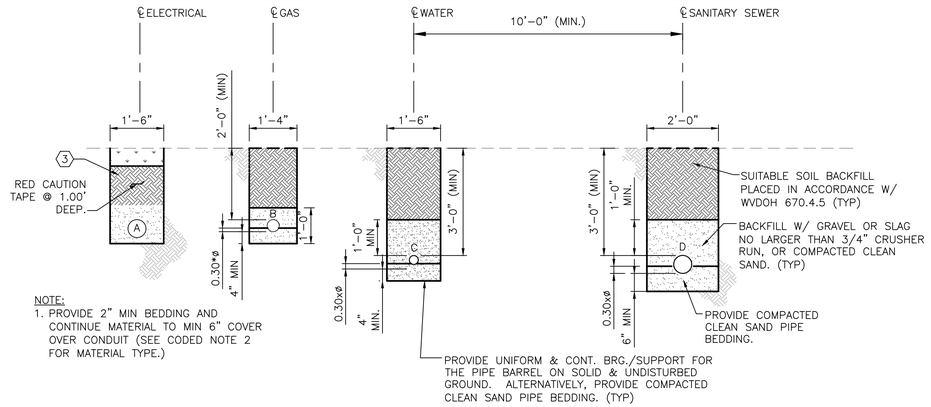
EXPANSION JOINT

TYPICAL CONC PAVEMENT AND JOINT DETAILS

1 / C500 SCALE: 1"=1'-0"

*COORDINATE WITH RESPECTIVE WVDOH SPECIFICATIONS FOR REINFORCED CONCRETE PAVEMENT AND REINFORCEMENT.

1. ITEM 307001-000 AGGREGATE BASE COURSE, CLASS 1
2. ITEM 207034-000 FABRIC FOR SEPARATION
3. ITEM 501001-008 8 INCH REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
4. ITEM 609001-001 4 INCH CONCRETE SIDEWALK

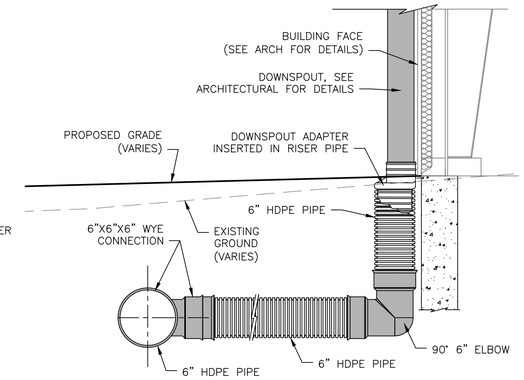


NOTE:
1. PROVIDE 2" MIN BEDDING AND CONTINUE MATERIAL TO MIN 6" COVER OVER CONDUIT (SEE CODED NOTE 2 FOR MATERIAL TYPE.)

A – ELECTRICAL CONDUIT, SEE ELECTRICAL FOR DETAILS
B – 2 1/2" PE SDR 11 GAS PIPE, 24" MIN. COVER
C – 2" PE SDR 11 WATER PIPE, 36" MIN. COVER
D – 4" SDR 35 PVC SANITARY SEWER PIPE, 36" MIN. COVER

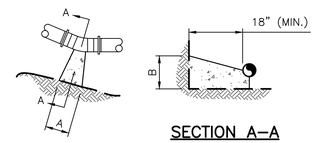
TYPICAL UTILITY TRENCHES

2 / C500 SCALE: 1/2"=1'-0"



DOWNSPOUT AND LATERAL DETAIL

3 / C500 SCALE: NTS



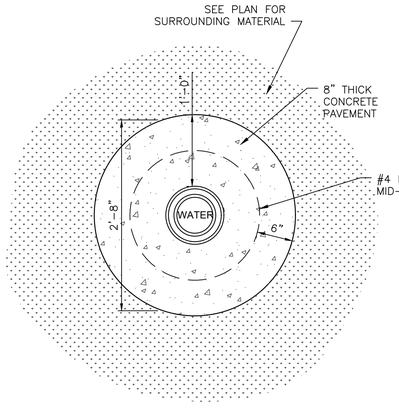
SECTION A-A

PIPE SIZE	90° BEND/TEE		45° BEND		22.5° BEND		11.25° BEND	
	A	B	A	B	A	B	A	B
2"	12"	12"	9"	9"	9"	9"	9"	9"
3"	15"	15"	12"	12"	9"	9"	9"	9"
4"	18"	18"	18"	12"	12"	10"	10"	10"
6"	24"	21"	20"	14"	24"	10"	10"	10"
8"	32"	32"	23"	23"	17"	17"	12"	12"
10"	39"	39"	29"	29"	21"	21"	15"	15"

THE THRUST BLOCK DIMENSIONS ARE MINIMUMS BASED ON 100 PSI WORKING LINE PRESSURES AND 2000 PSF SOIL BEARING CAPACITY.

TYPICAL THRUST BLOCK DETAIL

7 / C500 SCALE: 1/2"=1'-0"

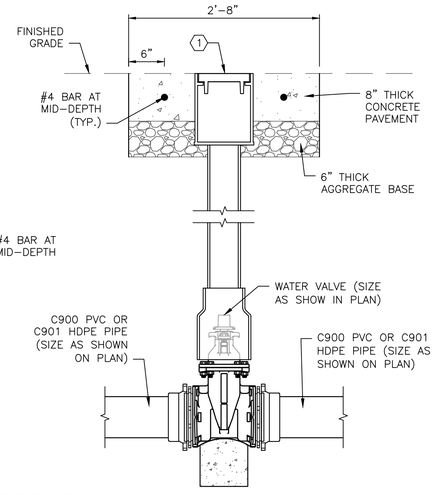


CODED NOTES

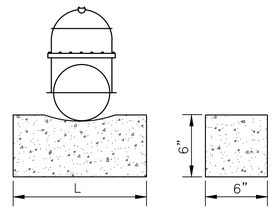
1. PROVIDE A 3" DIAMETER BRASS DISC. DISC SHOULD PROVIDE THE FOLLOWING INFORMATION: SIZE OF MAIN, NUMBER OF TURNS TO OPEN, VALVE MANUFACTURER AND YEAR VALVE INSTALLED.

WATER VALVE CONCRETE COLLAR DETAIL

6 / C500 SCALE: 1"=1'-0"



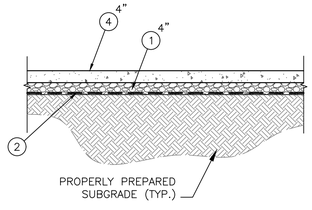
SIZE OF PIPE	L
2"	14
3"	14
4"	15
6"	17
8"	20
10"	24
12"	24



NOTE: SUPPORT TO BE USED UNDER ALL VALVES EXCEPT SERVICE VALVES.

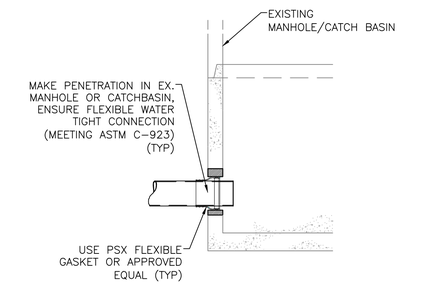
WATERLINE VALVE BLOCKING/SUPPORT

5 / C500 SCALE: NTS



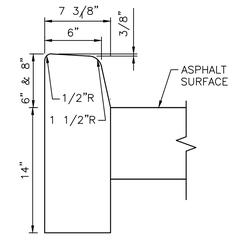
CONCRETE SIDEWALK

4 / C500 SCALE: 1/2"=1'-0"



EXISTING MANHOLE/CATCH BASIN CONNECTION DETAIL

8 / C500 SCALE: 1/2"=1'-0"



PLAIN CONCRETE CURBING TYPE I

1 / 11 / C500 TYPICAL CURB DETAILS

SCALE: 1 1/2"=1'-0"

Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	SLK	02/23/22
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Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST, CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
SECTIONS & DETAILS (1 OF 2)

SPENCER KIMBLE REGISTERED 19182 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: NOTED
Plot Date: 02/23/22
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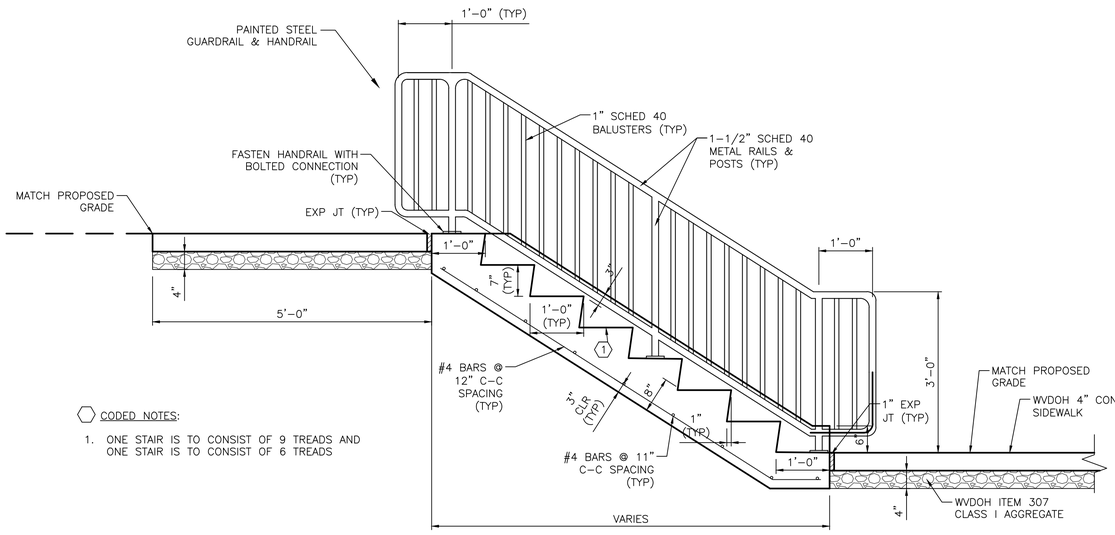
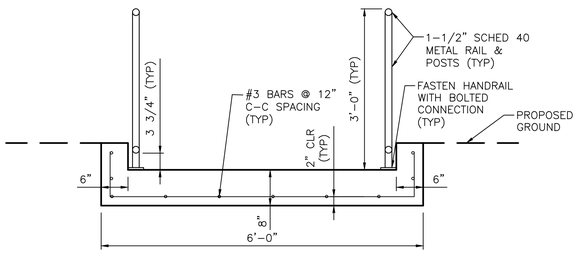


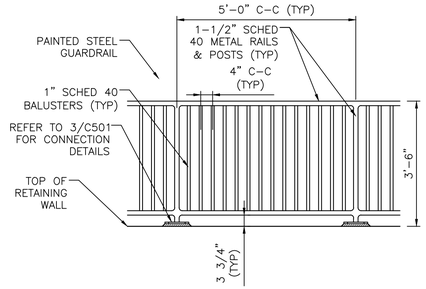
CODED NOTES:

1. ONE STAIR IS TO CONSIST OF 9 TREADS AND ONE STAIR IS TO CONSIST OF 6 TREADS

A / C501 **CONCRETE STAIRS TYPICAL SECTION**
SCALE: NTS

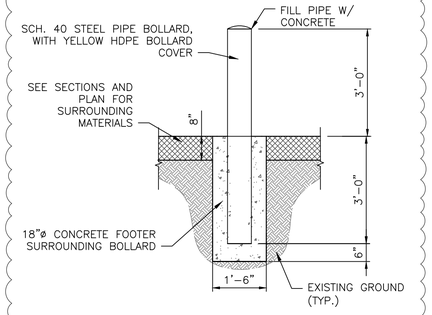


B / C501 **CONCRETE STEPS TYPICAL SECTION**
SCALE: NTS



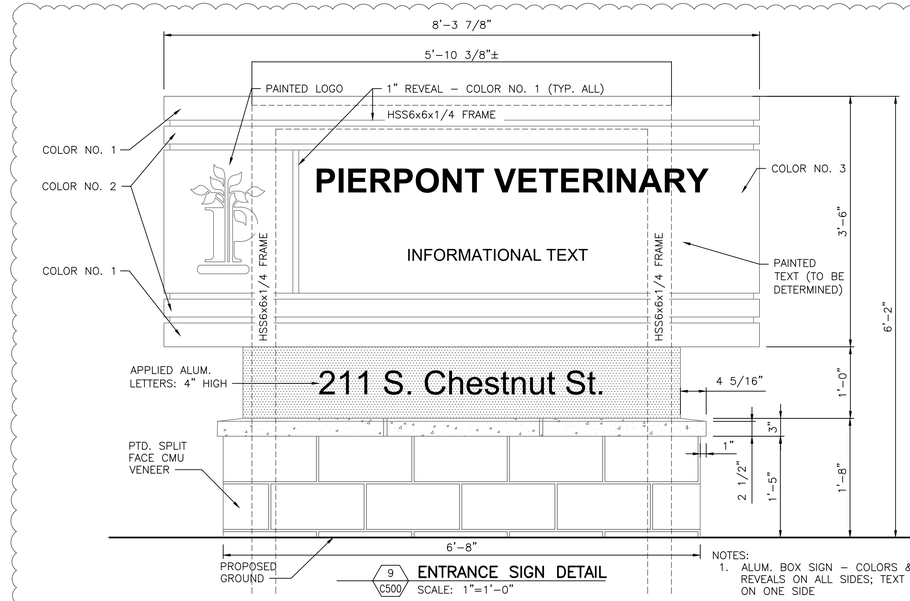
1 / C501 **TYP. GUARDRAIL DETAIL**
SCALE: 1/2"=1'-0"

1



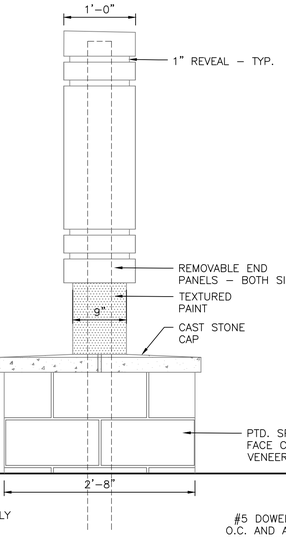
2 / C501 **PIPE BOLLARD DETAIL**
SCALE: 1/2"=1'-0"

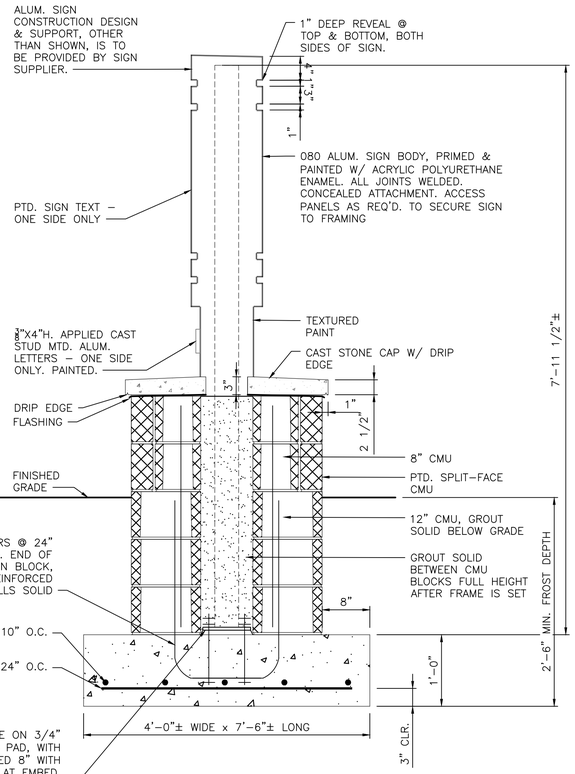
1



NOTES:
1. ALUM. BOX SIGN – COLORS & REVEALS ON ALL SIDES; TEXT ONLY ON ONE SIDE

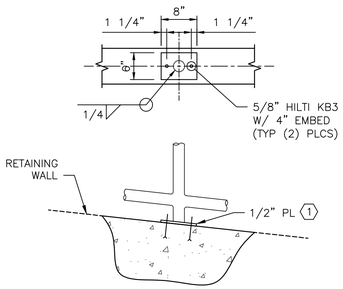
9 / C500 **ENTRANCE SIGN DETAIL**
SCALE: 1"=1'-0"





10 / C500 **ENTRANCE SIGN SECTION**
SCALE: 1"=1'-0"

NOTE: FINAL FRAMING REQUIREMENTS AND DETAILS TO BE COORDINATED AND FINALIZED BY CONTRACTOR AND SIGN MANUFACTURER REQUIREMENTS



3 / C501 **BOLTED CONNECTION TO CONCRETE DETAIL**
SCALE: 3/4"=1'-0"

CODED NOTES:

1. SET BASE PLATE IN CONSTRUCTION ADHESIVE. PROPERLY SHIM AND GROUT IF REQUIRED.

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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	SLK	02/23/22
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Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
SECTIONS & DETAILS (2 OF 2)

SPENCER KIMBLER REGISTERED 19742 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: NOTED
Plot Date: 02/23/22
Revision: 1
Drawing Number:
C501

GEOMETRIC LAYOUT TABLE

MARK	NORTHING	EASTING	DESCRIPTION
C10	285233.0852	1729444.3712	EDGE OF CONCRETE
C11	285226.8773	1729464.5950	EDGE OF CONCRETE
C12	285225.8809	1729467.8412	EDGE OF CONCRETE
C13	285213.2463	1729450.9640	EDGE OF CONCRETE
C14	285212.2433	1729454.2036	EDGE OF CONCRETE
C15	285236.3620	1729445.3770	EDGE OF CONCRETE
G1	285242.5855	1729447.2268	GENERATOR PAD
G2	285238.7707	1729459.6545	GENERATOR PAD
G3	285237.3277	1729445.6129	GENERATOR PAD
G4	285233.5129	1729458.0406	GENERATOR PAD
R1	285277.8785	1729510.5917	RETAINING WALL
R2	285248.7560	1729501.6523	RETAINING WALL
R3	285253.6468	1729485.7194	RETAINING WALL
R4	285286.0245	1729513.0911	RETAINING WALL
R5	285288.8608	1729503.8510	RETAINING WALL
R6	285315.2597	1729511.9544	RETAINING WALL
R7	285315.5537	1729510.9964	RETAINING WALL
R8	285314.6444	1729510.7173	RETAINING WALL
R9	285288.0190	1729502.5466	RETAINING WALL
S1	285318.1316	1729467.2782	EDGE OF STRUCTURE
S2	285307.4055	1729502.2211	EDGE OF STRUCTURE
S3	285264.3729	1729450.7765	EDGE OF STRUCTURE
S4	285246.3338	1729445.2392	EDGE OF STRUCTURE
S5	285237.2225	1729442.4424	EDGE OF STRUCTURE
S6	285263.4169	1729412.8276	EDGE OF STRUCTURE
S7	285255.7684	1729410.4823	EDGE OF STRUCTURE
S8	285311.5739	1729427.6085	EDGE OF STRUCTURE
S9	285308.4310	1729426.6360	EDGE OF STRUCTURE
W1	285258.4421	1729401.7573	EDGE OF WALK
W2	285266.0905	1729404.1029	EDGE OF WALK
W3	285323.4011	1729471.9667	EDGE OF WALK
W4	285326.2690	1729472.8470	EDGE OF WALK
W5	285313.2497	1729504.0268	EDGE OF WALK
W6	285315.2341	1729508.7960	EDGE OF WALK
W7	285288.6136	1729500.6370	EDGE OF WALK
W8	285284.8898	1729512.7408	EDGE OF WALK
W9	285279.1274	1729510.9751	EDGE OF WALK
W10	285279.9361	1729508.4339	EDGE OF WALK
W11	285278.6614	1729508.0426	EDGE OF WALK
W12	285281.0085	1729500.3946	EDGE OF WALK
W13	285277.5705	1729499.3393	EDGE OF WALK
W14	285279.3312	1729493.6035	EDGE OF WALK
W15	285282.4556	1729520.6708	EDGE OF WALK
W16	285276.4299	1729519.8544	EDGE OF WALK
W17	285280.4050	1729527.3510	EDGE OF WALK
W18	285274.9627	1729524.6343	EDGE OF WALK
W19	285278.7852	1729532.6279	EDGE OF WALK
W20	285273.0494	1729530.8673	EDGE OF WALK
W21	285273.0594	1729551.2815	EDGE OF WALK
W22	285279.5898	1729553.3623	EDGE OF WALK
W23	285278.3594	1729557.2304	EDGE OF WALK
W24	285273.9270	1729555.7610	EDGE OF WALK
W25	285272.4954	1729560.1993	EDGE OF WALK
W26	285263.8130	1729557.4150	EDGE OF WALK
W27	285264.9490	1729553.6510	EDGE OF WALK
W28	285262.6299	1729552.8449	EDGE OF WALK
W29	285264.0158	1729548.4896	EDGE OF WALK
W30	285267.3176	1729549.5403	EDGE OF WALK
W31	285252.7736	1729512.5929	EDGE OF WALK
W32	285249.8607	1729516.9290	EDGE OF WALK

*SHEET C101 POINTS

GEOMETRIC LAYOUT TABLE

MARK	NORTHING	EASTING	DESCRIPTION
W33	285244.2067	1729502.1186	EDGE OF WALK
W34	285241.2944	1729506.4554	EDGE OF WALK
W35	285230.1945	1729497.8173	EDGE OF WALK
W36	285217.8433	1729494.0259	EDGE OF WALK
W37	285216.3758	1729498.8064	EDGE OF WALK
W38	285339.2346	1729430.8140	EDGE OF WALK
W39	285337.7454	1729435.6977	EDGE OF WALK
W40	285336.3210	1729429.9180	EDGE OF WALK
W41	285334.8770	1729434.8156	EDGE OF WALK
W42	285312.3330	1729425.1970	EDGE OF WALK
W43	285310.8310	1729422.1200	EDGE OF WALK
W44	285309.9328	1729421.8388	EDGE OF WALK
Y1	285278.1719	1729509.6357	EDGE OF DOG YARD
Y2	285250.0055	1729500.9898	EDGE OF DOG YARD
Y3	285254.6028	1729486.0128	EDGE OF DOG YARD

*SHEET C101 POINTS

GEOMETRIC LAYOUT TABLE

MARK	NORTHING	EASTING	DESCRIPTION
C1	285306.7449	1729398.5504	EDGE OF CONCRETE
C2	285309.1894	1729395.6188	EDGE OF CONCRETE
C3	285312.9902	1729395.2663	EDGE OF CONCRETE
C4	285318.4460	1729396.9490	EDGE OF CONCRETE
C5	285332.1840	1729401.1860	EDGE OF CONCRETE
C6	285343.0317	1729404.5316	EDGE OF CONCRETE
C7	285354.7836	1729414.2300	EDGE OF CONCRETE
C8	285356.2569	1729429.5122	EDGE OF CONCRETE
C9	285355.5321	1729431.8734	EDGE OF CONCRETE
C10	285338.9639	1729429.6200	EDGE OF CONCRETE
C11	285381.7527	1729429.5567	EDGE OF CONCRETE
C12	285381.6596	1729426.1619	EDGE OF CONCRETE
C13	285354.8703	1729441.3301	EDGE OF CONCRETE
C14	285355.4073	1729444.4736	EDGE OF CONCRETE
C15	285351.7218	1729433.8412	EDGE OF CONCRETE
S1	285311.1328	1729418.0056	EDGE OF STRUCTURE
S2	285313.5230	1729410.3710	EDGE OF STRUCTURE
S3	285317.4762	1729397.6742	EDGE OF STRUCTURE
S4	285318.1579	1729397.8833	EDGE OF STRUCTURE
S5	285331.9025	1729402.0987	EDGE OF STRUCTURE
S6	285333.2886	1729402.5238	EDGE OF STRUCTURE
S7	285332.8590	1729434.1735	EDGE OF STRUCTURE
S8	285307.4055	1729502.2211	EDGE OF STRUCTURE
S9	285302.5147	1729518.1541	EDGE OF STRUCTURE
S10	285286.0241	1729513.0921	EDGE OF STRUCTURE
S11	285256.9725	1729474.8850	EDGE OF STRUCTURE
S12	285238.9335	1729469.3477	EDGE OF STRUCTURE
S13	285246.3338	1729445.2392	EDGE OF STRUCTURE
S14	285332.0156	1729436.9208	EDGE OF CONCRETE
W1	285301.5803	1729415.0474	EDGE OF WALK
W2	285303.9705	1729407.4128	EDGE OF WALK
W3	285338.6359	1729428.9848	EDGE OF WALK
W4	285334.8374	1729427.7281	EDGE OF WALK
W5	285313.5365	1729504.1031	EDGE OF WALK
W6	285316.4044	1729504.9834	EDGE OF WALK
W7	285305.9222	1729528.9077	EDGE OF WALK
W8	285307.3232	1729534.5677	EDGE OF WALK
W9	285282.1703	1729521.6165	EDGE OF WALK
W10	285280.7031	1729526.3964	EDGE OF WALK

*SHEET C102 POINTS

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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	SLK	02/23/22
0	ISSUED FOR BID	SLK	02/01/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
TABLES

SPENCER KIMBLER
REGISTERED
19847
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/23/22
Revision: 1
Drawing Number:
C600

A. MISCELLANEOUS

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING APPLICABLE CODES, SPECIFICATIONS, STANDARDS, AND GUIDELINES (LATEST EDITION):
   - INTERNATIONAL BUILDING CODE (IBC)
   - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
   - INTERNATIONAL MECHANICAL AND PLUMBING CODES (IMC/IPC)
   - CITY, COUNTY, UTILITY PROVIDER, AND CLIENT REQ'TS/REGULATIONS
   - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS)
   - AISC MANUAL OF STEEL CONSTRUCTION (AISC)
   - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC–360)
   - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (AISC–303)
   - STRUCTURAL WELDING CODE– STEEL (AWS–D1.1)
   - STRUCTURAL WELDING CODE– SHEET STEEL (AWS–D1.3)
   - NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD–FORMED STEEL STRUCTURAL MEMBERS (AISI–S100)
   - NORTH AMERICAN STANDARD FOR COLD–FORMED STEEL STRUCTURAL FRAMING (AISI–S240)
   - CODE OF STANDARD PRACTICE FOR COLD–FORMED STEEL STRUCTURAL FRAMING (AISI–S202)
   - STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) PRODUCT TECHNICAL GUIDE AND STANDARD DETAILS
   - AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)
   - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
   - STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE (ACI–301)
   - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI–315)
   - SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS (ACI–117)
   - CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
   - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI–318)
   - ENVIRONMENTAL STRUCTURES: CODE REQUIREMENTS (ACI–350)
   - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI–530)
   - BRICK INDUSTRY ASSOCIATION (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) TECHNICAL NOTES
   - WEST VIRGINIA DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS ROADS AND BRIDGES (WVDOH)
   - NATIONAL ELECTRICAL CODE (NFPA 70)
   - AMERICANS WITH DISABILITIES ACT (ADA)
   - AIA GUIDELINES FOR DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES
   - APPLICABLE FACTORY MUTUAL DATA SHEETS (E.G. NOS. XXX, XXX, ETC.
2. DISCREPANCIES/CONFLICTS BETWEEN THE PLANS AND VARIOUS CODES, STANDARDS, SPECIFICATIONS, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REMEDIATION.
3. PROJECT SPECIFICATIONS SHALL SUPPLEMENT AND AMEND THE GOVERNING/REFERENCED SPECIFICATIONS AND SHALL RULE IN CASE OF CONFLICT. THE MORE STRINGENT OF CONFLICTING PROJECT SPECIFIC NOTES/SPECIFICATIONS SHALL APPLY.
4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
5. ALL ADJACENT STRUCTURES AND UTILITY SERVICES SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ALL EXISTING FEATURES (E.G. CURBS, TREES, BUSHES, PAVING, ETC.) DAMAGED BY CONSTRUCTION SHALL BE RESTORED TO A CONDITION BETTER THAN OR EQUAL TO THE PRE–CONSTRUCTION CONDITION AND SATISFACTORY TO THE OWNER AND ENGINEER.
6. ALL PHASES OF WORK ARE SUBJECT TO INSPECTION, TESTING AND ACCEPTANCE BY THE ENGINEER OR OWNER.
7. ALL CONSTRUCTION WORK RELATED TO THESE DRAWINGS SHALL BE PROPERLY COORDINATED/STAGED WITH THE OWNER AND OTHER CONTRACTORS THAT MAY BE INVOLVED WITH THE PROJECT.
8. WORKING STORM DRAINAGE SYSTEMS SHALL BE MAINTAINED THROUGHOUT THE WORK AREAS AT ALL TIMES DURING CONSTRUCTION.
9. THE STRUCTURE IS DESIGNED TO BE SELF–STANDING AND STABLE AFTER CONSTRUCTION IS FULLY COMPLETED. STRUCTURAL DEMOLITION AND ERECTION PROCEDURES/SEQUENCE (E.G. CONSTRUCTION MEANS AND METHODS) SHALL BE DETERMINED/DESIGNED (BY CONTRACTOR) TO ENSURE THE SAFETY OF THE STRUCTURE, ITS COMPONENT PARTS, ITS OCCUPANTS, THE PUBLIC, AND ALL WORKERS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIEDOWNS, TEMPORARY BARRICADES, TEMPORARY FENCING, TEMPORARY SIGNAGE, ETC. SUCH MATERIALS SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT. SAFETY PRACTICES SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION (LOCAL, STATE, AND FEDERAL) AND OTHER RECOGNIZED STANDARDS (E.G. OSHA 1926, ANSI A10.34, ETC.). CONSTRUCTION LOADS SHALL IN NO WAY EXCEED THE NOTED DESIGN LOADS.
10. ALL WORK MUST MEET THE OWNER'S AND ENGINEER'S APPROVAL.
11. ALL WORK SHALL BE SCHEDULED AND COORDINATED INTO APPROPRIATE PHASES ACCORDING TO THE BUILDING CONSTRUCTION AND AS DIRECTED BY THE OWNER.
12. ALL WORK SHALL BE FULLY COORDINATED WITH AND SUPPORTIVE OF OTHER DISCIPLINE DRAWINGS.
13. IN GENERAL, FIELD CONDITIONS ARE ASSUMED TO MATCH THAT SHOWN ON THE ORIGINAL CONSTRUCTION DRAWINGS.
14. ALL FOUNDATION DESIGN IS BASED UPON GEOTECHNICAL INFORMATION AS PROVIDED IN THE "REPORT OF GEOTECHNICAL EXPLORATION & ENGINEERING ANALYSIS" BY AMERICAN GEOTECH, INC., DATED OCTOBER 2021.

B. PERMITS

1. ALL OUTSTANDING FEDERAL, STATE, AND LOCAL PERMITS ASSOCIATED WITH THE PROJECT SHALL BE OBTAINED.
2. PROPER PERMIT DOCUMENTATION SHALL BE KEPT ON SITE AT ALL TIMES AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RESPECTIVE PERMITS. ALL PERMIT CONDITIONS SHALL BE PROPERLY COMPLETED (E.G. INSPECTION SCHEDULING).

C. INSPECTIONS, SAMPLING, AND TESTING

1. ALL EXECUTION, INSPECTIONS, SAMPLING, AND TESTING OF WORK ITEMS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
   EXCAVATION, EMBANKMENT, SOIL COMPACTION, SUBGRADE PREPARATION, BACKFILL, AGGREGATE BASE, CONCRETE, ASPHALT, MASONRY, CONNECTIONS, ETC. SHALL BE (AS DIRECTED BY OWNER AND/OR INDICATED IN THE PROJECT DOCUMENTS) IN ACCORDANCE WITH THE WVDOH, PROJECT SOILS REPORT, MANUFACTURER SPECIFICATIONS, ACI (301, 318, 350, ETC.), THE PROJECT DOCUMENTS, AND AUTHORITIES HAVING JURISDICTION REQUIREMENTS/DIRECTIVES (E.G. ICC). INSPECTION, SAMPLING, AND TESTING SHALL BE PERFORMED BY AN INDEPENDENT, CERTIFIED TESTING AGENCY APPROVED BY THE OWNER AND EMPLOYED BY THE OWNER. ALL RESULTS SHALL BE PROMPTLY REPORTED TO THE ENGINEER. THE OWNER, AT HIS EXPENSE, MAY ALSO RETAIN A QUALIFIED PROFESSIONAL TO PERFORM INDEPENDENT QUALITY CONTROL/ASSURANCE CHECKS ON THE CONTRACTOR'S WORK. WHERE QC/QA REQUIREMENT CONFLICTS EXIST, EITHER PROJECT DOCUMENT REQUIREMENTS OR THE MOST STRINGENT SHALL RULE. WHERE DOH SPECIFICATIONS APPLY, THE CONTRACTOR SHALL PERFORM DUTIES ASCRIBED TO THE "CONTRACTOR" WITH THE OWNER RESERVING THE OPTION TO PERFORM DUTIES SIMILAR OR DIFFERENT TO THOSE ASCRIBED TO THE "DIVISION".
2. SUFFICIENT ACCESS AND ASSISTANCE SHALL BE PROVIDED TO SPECIAL INSPECTORS EMPLOYED BY THE OWNER AS REQUIRED BY THE LOCAL BUILDING OFFICIAL(S).

D. UTILITIES

1. FIELD VERIFY ALL EXISTING UTILITIES WITHIN THE WORK AREA. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, PROVIDING PROTECTIVE MEASURES DURING CONSTRUCTION. CORRECTION OF ANY DAMAGE TO UTILITIES SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
2. ALL UTILITY OWNERS SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.
3. IF A UTILITY CONFLICT IS ENCOUNTERED, CONSTRUCTION SHALL CEASE AND THE ENGINEER IMMEDIATELY NOTIFIED CONCERNING THE CONFLICT. UTILITY DEPTHS THAT COULD POSE CONFLICTS WITH CONSTRUCTION SHALL BE FIELD LOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION. DEPTHS SHALL BE RECORDED AND SUBMITTED TO THE ENGINEER FOR POSSIBLE RELOCATION/MODIFICATION DETERMINATION. ALL WORK ASSOCIATED WITH RELOCATION/MODIFICATION OF QUESTIONABLE UTILITIES (I.E. NOT INDICATED IN THE PROJECT DOCUMENTS) SHALL BE AS DIRECTED BY THE OWNER (CHANGE ORDER AT TIME OF CONSTRUCTION). ALL ACTIVITIES, TIMING, AND DURATION OF UTILITY WORK SHALL BE COORDINATED WITH THE OWNER AND THE UTILITY PROVIDER INVOLVED.
4. UTILITY LINES THAT PASS UNDER FOUNDATIONS WITH LESS THAN 18" CLEAR COVER OR THROUGH FOUNDATION WALLS/FLOOR SLABS SHALL BE PROTECTED FROM CORROSION, ABRASION, STRUCTURAL LOADING, DIFFERENTIAL MOVEMENT, ETC. BY USE OF SCH. 80 STEEL PIPE RELIEVING ARCHES AND SCH. 40 PVC PIPE SLEEVES RESPECTIVELY. PIPE SHALL BE TWO PIPE SIZES LARGER THAN THE UTILITY WITH THE ANNULAR SPACE TIGHTLY CAULKED IN AN APPROVED MANNER. FINAL SLEEVE LOCATIONS SHALL BE CLOSELY COORDINATED WITH THE RESPECTIVE CONTRACTOR. SLEEVES SHALL BE EITHER PLACED PRIOR TO FINAL PREPARATION OF FOOTING SUBGRADE OR CAST INTO WALL WITH THE UTILITY CONTRACTOR RESPONSIBLE FOR PLACEMENT OF THE LINE AND FINAL CAULKING. SLEEVES SHALL BE LOCATED AS NEAR AS POSSIBLE TO MID–DEPTH OF THE MEMBER AT MID–SPAN AND AS TO ENSURE A MINIMUM 1 1/2" CLEAR COVER TO THE NEAREST REINFORCING. OTHER DISCIPLINE DRAWINGS, THE IFGC, THE IPC, AND THE NEC SHALL BE REFERENCED FOR ADDITIONAL INFORMATION/REQUIREMENTS.

E. DEMOLITION

1. THE OWNER SHALL BE CONSULTED CONCERNING DISPOSAL OF DEMOLISHED MATERIALS. THE OWNER SHALL HAVE THE RIGHT TO RETAIN OWNERSHIP OR RELINQUISH IT TO THE CONTRACTOR. MATERIAL THAT BECOMES THE PROPERTY OF THE CONTRACTOR SHALL BE PROPERLY DISPOSED AT OFF–SITE LOCATION(S) IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION.
2. ALL CONCRETE AND MASONRY DESIGNATED TO BE REMOVED SHALL BE CUT USING A CONCRETE/MASONRY SAW OR OTHER APPROVED METHOD. DAMAGED PORTIONS OF CONCRETE/MASONRY TO REMAIN SHALL BE REPAIRED.
3. IN ORDER TO UTILIZE RUNNING BOND ARCH ACTION, MASONRY DEMOLITION SHALL FOLLOW A STAIR–STEP PATTERN FROM FLOOR TO CEILING STARTING AT THE COURSE AT EACH EDGE OF THE OPENING WHICH WILL RESULT IN A MEETING AT THE HEAD COURSE WHERE ONE PLUS TWO HALVES OR LESS UNITS REMAIN (CENTERED ABOUT OPENING). SHORING SHALL THEN BE PROVIDED AT THE HEAD AND/OR THE FLOOR STRUCTURE WHILE THE REMAINING MASONRY BELOW THE "ARCH" IS REMOVED COURSE BY COURSE FROM TOP TO BOTTOM. LINTEL BEARINGS SHALL THEN BE CREATED IN MANNER SIMILAR TO THE INITIAL DEMOLITION, THE LINTEL INSTALLED, AND THE SHORING REMOVED.
4. ALL EXISTING MASONRY REMOVED AND/OR DAMAGED DURING LINTEL INSTALLATION SHALL BE REPLACED TO PRE–CONSTRUCTION CONDITIONS OR BETTER.

F. STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC MANUAL OF STEEL CONSTRUCTION SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. UNLESS OTHERWISE NOTED, ALL W–SHAPES SHALL BE ASTM A992 (F_y=50 KSI, F_u=65 KSI). UNLESS OTHERWISE NOTED, CHANNELS, ANGLES, STEEL PLATES, S SHAPES, AND GUSSETS SHALL BE ASTM A36 (F_y=36 KSI F_u=58 KSI). STRUCTURAL STEEL PIPE SHALL BE ASTM A53, GRADE B (F_y=35 KSI F_u=60 KSI).
2. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE CODE FOR WELDING IN BUILDING CONSTRUCTION AWS D1.1 OF THE AMERICAN WELDING SOCIETY, CURRENT EDITION. ALL WELDS ARE TO BE MADE USING E70XX ELECTRODES. WHERE ONE OF THE CONNECTED PARTS IS 0.18" THICK OR LESS, WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3. WELDERS AND WELDING PROCEDURES SHALL BE QUALIFIED AS SPECIFIED BY AWS. VISUAL TESTING SHALL BE PERFORMED BY INDEPENDENT TESTING AGENCY ON ALL CRITICAL WELDS AND ON 25% OF NON–CRITICAL WELDS. INADEQUATE WELDS SHALL BE STRENGTHENED OR CUT OUT AND REPLACED AS DIRECTED. CRITICAL WELDS SHALL BE DEFINED AS ALL FULL PENETRATION WELDS, ALL WELDS IN MOMENT CONNECTIONS, AND AS NOTED ON DRAWINGS. ALL JOIST WELDING SHALL BE IN ACCORDANCE WITH THE "CODE FOR WELDING IN BUILDING CONSTRUCTION AWS D1.1 OF THE AMERICAN WELDING SOCIETY" AND STEEL JOIST INSTITUTE SPECIFICATIONS. ALL WELDING SHALL BE AWS QUALIFIED OPERATORS AND BE DONE WITH CARE SO AS NOT TO IMPAIR OR AFFECT THE JOIST IN ANY WAY. WELDING OF LIGHT–GAGE STEEL MUST BE PERFORMED BY A WELDER CERTIFIED FOR LIGHT–GAGE WELDING AND BE DONE WITH CARE SO AS NOT TO IMPAIR OR AFFECT THE MEMBER IN ANY WAY. WHERE APPROPRIATE, SEAL WELDS SHALL BE PROVIDED IN ACCORDANCE WITH AWS AND AISC SPECIFICATIONS. WHERE SEAL WELDS CONFLICT WITH OTHER AWS SPECIFICATIONS AND/OR COULD ADVERSELY AFFECT THE STRUCTURAL LOAD PATH INTENDED BY THE DESIGN, SUCH INSTANCE SHALL BE SPECIFICALLY BROUGHT TO THE ENGINEER FOR APPROVAL. WHEN REQUIRED, HOT–DIP GALVANIZING VENT HOLE(S) SHALL BE PROVIDED (AGA CLASS II).
3. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL SHAPES, PLATES, AND HARDWARE (EXCLUDING STEEL DIRECTLY EXPOSED TO THE EXTERIOR) SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH OWNER SPECIFICATIONS. SURFACES TO BE ENCASED IN CONCRETE/SPRAY–APPLIED FIREPROOFING OR FIELD WELDED SHALL NOT BE PAINTED. CONTACT SURFACES IN SC CONNECTIONS SHALL BE FREE OF OIL, PAINT, LACQUER, ETC. AND BE CLASS A. A490 BOLTS SHALL NOT BE GALVANIZED.
4. ALL HOLES REQUIRED FOR FIELD CONNECTIONS SHALL BE DRILLED OR PUNCHED. BURNING AND/OR FIELD REAMING SHALL BE PROHIBITED.
5. FIELD WELDING OF GALVANIZED STEEL FRAMING AND/OR ANCHORS SHALL NOT BE PERMITTED, UNLESS NOTED OTHERWISE.
6. ALL MEMBERS SHALL BE TEMPORARILY SECURED FROM ALL DEAD, WIND, CONSTRUCTION LIVE, AND ERECTION LOADS AS REQUIRED.
7. MILL ALL COLUMNS AT BASE PLATES.
8. UNLESS NOTED OTHERWISE, A MINIMUM OF TWO BOLTS OR EQUIVALENT WELD SHALL BE USED FOR ALL CONNECTIONS.
9. UNLESS NOTED OTHERWISE, A MINIMUM OF 5/16" THICK GUSSET PLATE SHALL BE USED FOR ALL CONNECTIONS.
10. UNLESS NOTED OTHERWISE, FOR ALL BRACINGS, A MINIMUM OF (2) BOLT CONNECTION SHALL BE USED FOR EACH ANGLE AND (4) BOLT CONNECTION FOR WTs OR WELDED CONNECTION OF EQUAL STRENGTH.
11. ALL OPEN ENDS OF TUBES AND PIPES SHALL BE CLOSED WITH 1/8" CLOSURE PLATE. CONDENSATION DRAIN HOLE SHALL BE PROVIDED AT BASE OF TUBES AND PIPES.
12. 1/4" SETTING PLATES SHALL BE PROVIDED FOR ALL BEAMS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A BEARING PLATE. SETTING PLATES SHALL BE ANCHORED TO THE WALL WITH (2) 1/2" ø x 6" HD STUDS.
13. UNLESS NOTED OTHERWISE, MINIMUM FILLET WELD SIZE SHALL BE 3/16" AND COMPLETE/PARTIAL JOINT PENETRATION (C/PJP) WELDS SHALL CONFORM TO THE MOST APPLICABLE AWS PRE–QUALIFIED WELD.
14. SHOP DETAIL AND ERECTION DRAWINGS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE FABRICATION OF ANY STRUCTURAL STEEL. CONNECTION DETAILS SHOWN ON THE DRAWINGS SHALL BE SPECIFICALLY REVIEWED FOR CONSTRUCTABILITY BY THE FABRICATOR.
15. NATURAL CAMBER OF FRAMING BEAMS SHALL BE PLACED UPWARD.
16. THREADED RODS SHALL MEET THE REQUIREMENTS OF BOTH ASTM A575 AND A576 (Fy=32 KSI).
17. TWO (2) INTERMEDIATE CONNECTORS SHALL BE PROVIDED IN ACCORDANCE WITH AISC (WELDED OR FULLY–TIGHTENED USING HIGH STRENGTH BOLTS) AT DOUBLE ANGLE BRACING.
18. GENERAL W–BEAM, CHANNEL, AND ANGLE CLIP ANGLE CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED.

G. STEEL DECK

1. SPECIFICATION 05 31 00 SHALL BE REFERENCED FOR REINFORCING OF DECK OPENINGS NOT FRAMED.
2. ROOF DECK SHALL BE EXTENDED TO WITHIN 1" OF VALLEY (MAX. 1" CLR. BETWEEN ENDS OF DECK). A GALVANIZED 20 GA. VALLEY PLATE SHALL BE CENTERED OVER THE VALLEY. ATTACH SHALL BE PER MANUFACTURER SPECIFICATIONS.
3. HVAC UNIT SUPPORT STEEL SHALL BE PROVIDED AS REQUIRED WITH TOP OF STEEL TO MATCH DECK BEARING SURFACE. PROVIDE INDICATED DECK OPENING, BLOCKING AS REQUIRED, AND ATTACH PER MANUFACTURER SPECIFICATIONS. COORDINATE SUPPORT STEEL AND DECK OPENING WITH UNIT REQUIREMENTS. PROVIDE SUPPLEMENTAL FRAMING ANGLES AS REQUIRED.
4. ROOF DECK SHALL BE CONTINUOUS ACROSS A MINIMUM OF (2) SPANS AND BE VULCRAFT, OR APPROVED EQUAL. 36" ROOF DECK SHALL BE ATTACHED TO SUPPORT MEMBERS WITH #12 TEK SCREWS AT SIDE LAPS AND AT LEAST (1) INTERIOR RIB (18" MAX. C/C SPACING). INTERIOR DECK ENDS SHALL HAVE A MINIMUM 2" LAP AND BE CENTERED OVER SUPPORT WITH A MINIMUM 1 1/2" BEARING (OR AS RECOMMENDED BY MANUFACTURER). DECK SHALL HAVE A MINIMUM 1 1/2" END PERIMETER BEARING. END PERIMETER EDGES SHALL BE ATTACHED AT SIDE LAPS AND (2) INTERMEDIATE RIBS (12" MAX. C/C SPACING). PERIMETER EDGES AND SIDE LAPS SHALL BE ATTACHED WITH AN ADDITIONAL INTERMEDIATE #10 TEK SCREW FASTENER AT MIDSPAN. EACH ATTACHMENT MUST RESIST THE HORIZONTAL FORCE REQUIRED TO PROVIDE ADEQUATE LATERAL BRACING FOR THE PURLINS. DECK SHALL BE INSTALLED IN ACCORDANCE WITH STEEL DECK INSTITUTE AND MANUFACTURER SPECIFICATIONS. VALLEY/RIDGE PLATES, CANT STRIPS, CLOSURES, ETC. SHALL BE PROVIDED WHERE REQUIRED. (FOR FINISHED ROOF APPLICATION: SIDE LAPS SHALL BE OVERLAPPED ONE ADDITIONAL FLUTE AND ALL FASTENERS SHALL HAVE BONDED WASHERS. EXPOSED EDGES OF DECK SHALL BE COLD GALVANIZED IN FIELD AS REQUIRED.)
5. UNLESS, NOTED OTHERWISE, INSTALL ROOF DECK ON MIN. 2% SLOPE.
6. FLOOR DECK CONTINUOUS ACROSS (3) SPANS AND BE VULCRAFT OR APPROVED EQUAL. SIDE/END POUR STOPS AND CLOSURES SHALL BE PROVIDED WHERE REQUIRED. INSTALL DECK IN ACCORDANCE WITH STEEL DECK INSTITUTE AND MANUFACTURER SPECIFICATIONS. USE WELD WASHERS AS REQUIRED. 36" FLOOR DECK SHALL BE ATTACHED TO END/INTERIOR SUPPORT MEMBERS WITH 5/8" PUDDLE WELDS AT SIDE LAPS AND AT LEAST (2)/(1) INTERIOR RIBS (12"/18" MAX. C/C SPACING). INTERIOR DECK ENDS SHALL HAVE A MINIMUM 2" LAP AND BE CENTERED OVER SUPPORT WITH A MIN. 1 1/2" BEARING (OR AS RECOMMENDED BY MANUFACTURER). DECK SHALL HAVE A MINIMUM 1 1/2" END PERIMETER BEARING. SIDELAPS AND PERIMETER EDGES SHALL BE ATTACHED WITH AN ADDITIONAL INTERMEDIATE #10 TEK SCREW FASTENER AT MIDSPAN. EACH ATTACHMENT MUST RESIST THE HORIZONTAL FORCE REQUIRED TO PROVIDE ADEQUATE LATERAL BRACING FOR THE JOISTS (300 POUNDS EVERY 36"). WELDED SHEAR STUDS MAY REPLACE PUDDLE WELDS FOR DECKS WITH COMPOSITE CONCRETE SLABS.
7. DECK OPENINGS GREATER THAN 6"ø AND LESS THAN OR EQUAL TO 13"ø SHALL BE REINFORCED USING A SQUARE 14 GA STEEL SHEET FASTENED TO EXISTING DECK AT 8" OC MAX WITH MIN 6" LAP. LARGER OPENINGS SHALL BE FRAMED. IN LIEU OF ANGLE FRAMING, DECK OPENINGS LESS THAN OR EQUAL TO 24" SQUARE IN A CONCRETE SLAB CAN BE REINFORCED USING (1) #4 BAR x 6'–0" LONG ALONG EACH EDGE OF THE OPENING PROVIDED THE STEEL DECK IS CUT AFTER THE CONCRETE HAS HARDENED.

H. COLD–FORMED STEEL FRAMING

1. SPECIFICATIONS AND STANDARDS:
   - A. ALL STRUCTURAL PROPERTIES OF LIGHT GAGE METAL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AND SHALL BE PUBLISHED IN THE MANUFACTURER'S CATALOG.
   - B. WELDING SHALL BE PERFORMED ONLY BY QUALIFIED OPERATORS USING PROPER EQUIPMENT/PROCEDURES FOR THE PARTICULAR TYPE OF WORK REQUIRED.
   - C. AWS STANDARD WELDING SYMBOL.
   - D. AWS D1.3 SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES.
2. MATERIALS:
   - A. UNLESS NOTED OTHERWISE, STRUCTURAL FRAMING MEMBERS 16 GAGE AND HEAVIER (54 MILS): ASTM A1003, GRADE 50, TYPE H.
   - B. UNLESS NOTED OTHERWISE, STRUCTURAL FRAMING MEMBERS 18 GAGE AND LIGHTER (43 MILS): ASTM A1003, GRADE 33, TYPE H.
   - C. UNLESS NOTED OTHERWISE, ALL FRAMING MEMBERS TO BE "C" SHAPED WITH MINIMUM FLANGE WIDTH OF 1 5/8".
   - D. UNLESS NOTED OTHERWISE, ALL TRACK AND BRIDGING MATERIAL: ASTM A1003, GRADE 33, TYPE H.
   - E. ALL FRAMING MEMBERS SHALL BE GALVANIZED WITH A G60 COATING.
   - F. UNLESS NOTED OTHERWISE, MISCELLANEOUS CLIPS, TIES, ETC.: ASTM A653, GRADE 50, G90 COATING
   - G. WELDING ELECTRODES: AWS A5.1, A5.5, OR A5.18 SERIES E60.
3. CONNECTIONS:
   - A. ALL FRAMING COMPONENTS SHALL BE CUT TO FIT SQUARELY AGAINST ABUTTING MEMBERS. COMPONENTS SHALL BE HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
   - B. WIRE TYING OF STRUCTURAL FRAMING COMPONENTS SHALL NOT BE PERMITTED.
   - C. LIGHT GAGE METAL FRAMING CONNECTIONS SHALL BE FASTENED TOGETHER WITH A MINIMUM OF (2) #8 SCREWS OR AS SHOWN ON THE PLANS.
   - D. UNLESS NOTED OTHERWISE, ALL SCREWS SHALL BE GALVANIZED SELF–DRILLING (TEK) WITH HEX WASHER HEAD AND A THROUGH–PENETRATION OF AT LEAST (3) EXPOSED THREADS. (SELF–TAPPING SCREWS SHALL ONLY BE USED WHERE NOTED.) SPACING AND EDGE DISTANCE SHALL NOT BE LESS THAN 3 TIMES THE SCREW DIAMETER. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. FASTENERS AT PROPRIETARY CONNECTIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
   - E. SSMA STANDARD DETAILS SHALL BE REFERENCED FOR ADDITIONAL INFORMATION.
4. ERECTION:
   - A. TRACK SHALL BE SECURED TO THE FLOOR AND OVERHEAD STRUCTURE.
   - B. STUDS SHALL BE SEATED SQUARELY TO THE FLOOR AND OVERHEAD TRACK AND ATTACHED SECURELY.
   - C. SPLICES IN STRUCTURAL FRAMING MEMBERS SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
   - D. AXIAL LOADS SHALL NOT BE ALLOWED ON STUDS UNTIL ALL BRIDGING, CONNECTIONS, AND ATTACHMENT OF COLLATERAL MATERIALS ARE COMPLETE.
   - E. V–BAR BRIDGING SHALL BE ATTACHED TO BOTH FLANGES OF WALL STUDS TO PREVENT STUD ROTATION. BRIDGING ROWS SHALL BE SPACED AT 4'–0" O.C. OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVELY, FLAT STRAPS WITH SOLID BLOCKING AT 10' ON–CENTER, WALL OPENINGS, AND CORNERS MAY BE USED.
   - F. V–BAR BRIDGING SHALL BE ATTACHED TO BOTH FLANGES OF JOISTS TO PREVENT JOIST ROTATION. SOLID BRIDGING SHALL BE ATTACHED BETWEEN JOISTS AFTER EVERY 10'–0" LENGTH OF V–BAR BRIDGING AND AT FIRST AND LAST TWO SPACES. BRIDGING ROWS SHALL BE SPACED IN ACCORDANCE WITH THE FOLLOWING PROVISIONS. SOLID BLOCKING OR BANDING IS REQUIRED AT JOIST BEARING AT ALL SUPPORTS.
     - a. SPANS 0" TO 7'–0" – NO BRIDGING
     - b. SPANS 7'–1" TO 14'–0" – ONE ROW IN MIDSPAN
     - c. SPANS 14'–1" TO 20'–0" – TWO ROWS AT THIRD POINTS.
     - d. SPANS 20'–1" TO 26'–0" – THREE ROWS AT QUARTER POINTS.
   - G. PROVISIONS SHALL BE MADE FOR STRUCTURE VERTICAL MOVEMENT AT PARTITIONS AND CURTAIN WALL INFILL AND WHERE INDICATED USING VERTICAL SLIDE TRACK AND (OR?) VERTICAL SLIDE CLIPS. V–BAR BRIDGING SHALL BE PROVIDED TO BOTH FLANGES OF WALL STUDS WITHIN 6" (18"?) OF THE SLIDE TRACK LOCATIONS.
   - H. PARTITION WALL TOP TERMINATION/SUPPORT/BRACING DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. PARTITION WALLS SHALL BE SUFFICIENTLY STIFFENED. WALLS SHALL BE EXTENDED TO STRUCTURE ABOVE (DECK, JOISTS, TRUSSES, ETC.) AND TERMINATED WITH VERTICAL DEFLECTION ACCOMMODATING CONNECTION, PIN–CONNECTION BRACED WITH VERTICAL KICKERS, BRACED AT CORNERS WITH HORIZONTAL KICKERS, OR TIED TOGETHER WITH STRUTS. UNLESS NOTED OTHERWISE, WALL STUDS AND DRYWALL SHALL EXTEND A MINIMUM OF 12" AND 4" ABOVE CEILING RESPECTIVELY. WHERE REQUIRED FOR SOUND ATTENUATION, STUDS AND ACOUSTIC BATT SHALL BE EXTENDED TO THE DECK WITH THE BATT FASTENED TO THE STUDS.
5. GENERAL:
   - A. LOAD BEARING METAL STUD WALLS, NON–LOAD BEARING METAL STUD WALLS, COLD–FORMED STEEL TRUSSES, AND METAL PURLIN CONNECTIONS SHALL BE DESIGNED AND DETAILED UNDER THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WEST VIRGINIA. DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
   - B. EACH BRIDGING ATTACHMENT TO THE PURLINS SHALL BE MADE BY WELDING OR MECHANICAL MEANS IN ACCORDANCE WITH AISI AND MANUFACTURER SPECIFICATIONS AND SHALL BE CAPABLE OF RESISTING THE REQUIRED HORIZONTAL FORCE.
   - C. PURLINS SHALL BE DESIGNED AND CONSTRUCTED FOR THE NET UPLIFT PRESSURE INDICATED ON THE PLAN.
   - D. PURLINS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH AISI AND MANUFACTURER SPECIFICATIONS.
   - E. UNLESS NOTED OTHERWISE, CONCENTRATED LOADS SHALL NOT BE SUPPORTED BY THE PURLINS.
   - F. BRIDGING AT EACH BAY SHALL BE PROVIDED IN ACCORDANCE WITH THE BRIDGING SPACING TABLE, AISI, AND MANUFACTURER SPECIFICATIONS.
   - G. MEMBERS USED AS JOISTS SHALL BE FREE OF WEB PUNCHOUTS.
   - H. JOISTS SHALL HAVE A MINIMUM BEARING OF 3 1/2" AT SUPPORTS.

BUILDING CODE DATA – DESIGN VALUES

DEAD LOAD	MISC. ROOF DEAD		5.0 PSF
	ROOF MATERIAL BUILD UP		SELF–WEIGHT
COLLATERAL LOAD	HVAC		4.0
	LIGHTING/CEILING/MISC.		5.0
LIVE LOADS	ROOF (PSF)		20.0
SNOW LOAD	GROUND SNOW LOAD (PSF)		20
	ROOF SNOW LOAD (PSF)		16.8
	SNOW EXPOSURE FACTOR		1.0
	SNOW LOAD IMPORTANCE FACTOR		1.0
	THERMAL FACTOR		1.2
ALLOWABLE COLUMN/WALL SOIL BEARING CAPACITY (PSF)*			2,000 / 2,000
WIND LOADS	BASIC WIND SPEED (MPH)		115
	WIND EXPOSURE		B
	BUILDING CATEGORY/WIND IMPORTANCE FACTOR		II / 1.0
	+/– INTERNAL PRESSURE COEFFICIENTS (+GCpi/–GCpi)		0.18 / –0.18
	WIND ANALYSIS METHOD		ASCE 7–10
EARTHQUAKE DESIGN DATA	SEISMIC DESIGN CATEGORY		B
	SITE SOIL CLASSIFICATION		D
	OCCUPANCY CATEGORY/SEISMIC IMPORTANCE FACTOR		II / 1.0
	MAPPED SPECTRAL RESPONSE ACCELERATIONS**		$S_{ms}=0.214g$ $S_{m1}=0.134g$
	SPECTRAL RESPONSE COEFFICIENTS**		$S_{ds}=0.143g$ $S_{d1}=0.089g$
	RESPONSE MODIFICATION COEFFICIENT		R=3 1/4
	BASIC SEISMIC–FORCE–RESISTING SYSTEM		MASONRY SHEAR WALLS
	DESIGN BASE SHEAR (KIPS)		2.0 KIPS
	ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE
FLOOD LOAD	LOCATED IN FLOOD–HAZARD AREA?		NO
	HIGH–VELOCITY WAVE ACTION? NO	LOWEST HORIZONTAL STRUCTURAL MEMBER EL.	NOT–APPLICABLE
	NON–HIGH–VELOCITY WAVE ACTION? NO	LOWEST FLOOR EL.	NOT–APPLICABLE
		DRY FLOODPROOFED EL.	NOT–APPLICABLE

* BASED ON GEOTECHNICAL REPORT DATE DOCTOBER 2021

** BASED ON USGS DESIGN MAP REPORT FOR SITE COORDINATES

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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	ESS	2/23/22
0	ISSUED FOR BID	ESS	2/01/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
GENERAL NOTES/TABLES

ERIC S. SMITH
18474

Project:	2201011
Designed By:	STC
Drawn By:	STC
Checked By:	ESS
Scale:	12" = 1'-0"
Plot Date:	2/23/22
Revision:	1

Drawing Number:
S000

ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACT	ACOUSTICAL CEILING TILE
ADD	ADDITIONAL
ADJ	ADJUSTABLE
AFC/F/G	ABOVE FINISHED CEILING/ FLOOR/GRADE
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
APPX	APPROXIMATELY
ARCH	ARCHITECT(URAL)
BD	BOARD
BIT	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM/BENCH MARK
BOF/P	BOTTOM OF FOUNDATION/PIPE
BOT	BOTTOM
BRG	BEARING
BUR	BUILT-UP ROOFING
CB	CATCH BASIN
CER	CERAMIC
CIP	CAST-IN-PLACE
CL	CENTERLINE
CLG	CEILING
CLR	CLEARANCE
CLO	CLOSET
CMU	CONCRETE MASONRY UNIT
CJ	CONSTRUCTION/CONTROL JOINT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CUB	COLUMN UTILITY BOX
DBO	DESIGN BY OTHERS
DCBO	DESIGN & CONSTRUCTION BY OTHERS
DET	DETAIL
DN	DOWN
D&R	DEMOLISH & REMOVE
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
ED	EDGE DISTANCE
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ENC	ENCLOSURE
EOP/W	EDGE OF PAVEMENT/WALK
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY/EYE WASH
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERIOR
FBO	FURNISHED BY OTHERS
FC	FINISHED CEILING
FD	FLOOR DRAIN/FIRE DAMPER
FDN	FOUNDATION
FF	FINISHED FLOOR
FFT	FINISHED FLOOR TRANSITION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIXT	FIXTURE
FLR	FLOOR
FOC/F/M	FACE OF CONCRETE/ FINISH/MASONRY
FS	FAR SIDE
FIN	FINISHED
FR	FIRE RATED
FTG	FOOTING
FUB	FLOOR UTILITY BOX
GA	GAUGE/GAGE
GALV	GALVANIZED
GL	GLASS/GLAZING
GND	GROUND
GWB	GYPSUM WALL BOARD
HC	HOLLOW CORE/HANDICAP ACCESSIBLE
HDW	HARDWARE
HM	HOLLOW METAL
HMA	HOT-MIX-ASPHALT

ABBREVIATIONS CONT.

HP	HIGH POINT
HTR	HEATER
I/	INSIDE OF
IBO	INSTALLED BY OTHERS
ID	INSIDE DIAMETER
INCL	INCLUD(E)(ING)
INS	INSULATION
INT	INTERIOR
INV	INVERT
ISO	ISOLATION
JT	JOINT
LAM	LAMINATED
LLV	LONG LEG VERTICAL
LP	LOW POINT
LTG	LIGHTING
MAS	MASONRY
MAT	MATERIAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTL	METAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
O/	OUTSIDE OF
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD/OVERHANG
OPNG	OPENING
OPP	OPPOSITE
PC	PRECAST
PLC(S)	PLACE(S)
PL(S)	PLATE(S)
PLYWD	PLYWOOD
PEMB	PRE-ENGINEERED METAL BUILDING
PT	PRETENSIONED
PTD	PAINTED
PTN	PARTITION
PVMT	PAVEMENT
QT	QUARRY TILE
QTY	QUANTITY
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RS	ROUGH SAWN
SCH	SCHEDULE
SECT	SECTION
SHT	SHEET
SL	STRUCTURE LINE
SP	SPACE
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRUCTURAL
SUSP	SUSPENDED
SW	SIDEWALK/SHEAR WALL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TBD	TACKBOARD/TO BE DETERMINED
TD	TRENCH DRAIN
TOB/F/M /P/R/S /W	TOP OF BANK/ FOOTER/MASONRY/PIPE /RAIL(ING)/STEEL/ WALL
TOS	TOE OF SLOPE
TRT	TREATED
UNO	UNLESS NOTED OTHERWISE
VCB	VINYL COVER BASE
VCT	VINYL COMPOSTION TILE
VIF	VERIFY IN FIELD
VP	VENEER PLASTER
VWC	VINYL WALL COVERING
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WPR	WATERPROOFING
WUB	WALL UTILITY BOX
WWR	WELDED WIRE REINFORCEMENT

MATERIAL LEGEND

- FIBER-REINFORCED CONCRETE
- CONCRETE
- CONCRETE MASONRY OR VCT
- BRICK OR HMA
- WELL-GRADED STONE/GRAVEL
- UNIFORM-GRADED STONE/GRAVEL
- LUMBER-SECTION
- RIGID INSULATION
- BATT INSULATION
- STEEL
- SOIL
- BEDROCK
- SAND, HMA, OR GYPSUM
- WOOD SHEATHING

SYMBOL LEGEND

- CODED NOTE
- REVISION TRIANGLE
- SECTION
- ELEVATION
- DETAIL
- MARK NUMBER
- WALL TYPE
- INTERIOR ELEVATION
- XXX / XXX SPOT ELEVATION
- BEARING ELEVATION OR TOP SURFACE ELEVATION
- MANHOLE
- CATCH BASIN
- COLUMN GRID

J. CONCRETE & FOUNDATION GROUT

1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301, 304, 117, 315, AND 318 AND HAVE A 28 DAY STRENGTH OF 4000 PSI, AIR-ENTRAINMENT OF 5% ±1 1/2%, AND A MAXIMUM W/C RATIO OF 0.45. CONSTRUCTION SHALL ALSO BE IN ACCORDANCE WITH ACI 306 WHEN REQUIRED BY COLD WEATHER AND ACI 305 WHEN REQUIRED BY HOT WEATHER. SLUMP SHALL BE AS FOLLOWS:
   -MASONRY GROUT – 11" TO 8"
   -FOOTINGS AND PAVEMENTS – 3" TO 1" (DRILLED SHAFTS – 4")
   -SLABS, WALLS, BEAMS, AND COLUMNS – 4" TO 1"
2. WHERE SPECIFIED, CONCRETE MIX SHALL BE A LOW PERMEABLE MIX DESIGNED FOR WATER-TIGHT CONCRETE PER ACI 350. THE MIX SHALL HAVE A LOW W/C AND HIGH AIR CONTENT WITH EXTENDED PERIODS OF MOIST CURING. INTERIOR CONCRETE FLOOR SLABS AND OTHER CONCRETE NOT EXPOSED TO FREEZING AND THAWING OR DEICING CHEMICALS DO NOT REQUIRE AIR-ENTRAINMENT. CONCRETE FLOOR AND SLAB CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 360 AND 302. UNLESS NOTED OTHERWISE, TYPE I PORTLAND CEMENT SHALL BE USED. ADMIXTURES SHALL NOT INCLUDE ANY CHLORIDES.
3. READY-MIXED CONCRETE SHALL BE MEASURED, BATCHED, MIXED, AND DELIVERED IN ACCORDANCE WITH ASTM C94. ANY WATER ADDED AFTER BATCHING SHALL BE FULLY RECORDED AND DONE SO IN ACCORDANCE WITH ASTM C94. INCREASED SLUMP/WORKABILITY MAY BE ABLE TO BE ATTAINED VIA ADMIXTURES. MAXIMUM SLUMP AFTER THE ADDITION OF ADMIXTURES SHALL BE 7".
4. UNLESS NOTED OTHERWISE, ALL ANCHOR BOLTS (OR: ALL ANCHOR BOLTS NOTED TO BE HOT-DIPPED GALVANIZED (GALV OR HDG)), INCLUDING ASSOCIATED HARDWARE, SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153.
5. UNLESS NOTED OTHERWISE, ANCHOR BOLTS SHALL BE ASTM F1554 GR. 36 OR 55 WITH HARDENED WASHER AND HEAVY HEX NUT ACCURATELY SET TO WITHIN TOLERANCE OF PLAN DIMENSIONS. POST-INSTALLED ANCHORS SHALL BE HILTI, OR APPROVED EQUAL, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. UNLESS NOTED OTHERWISE, POST-INSTALLED ANCHORS SHALL HAVE A FACTORY-APPLIED ZINC PLATED FINISH.
6. ALL REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A-615, GRADE 60. PLAIN AND DEFORMED WELDED WIRE FABRIC REINFORCING SHALL BE ASTM A-185 AND A-497, GRADE 70 RESPECTIVELY. (USUALLY USE A-185 EVEN WHEN USE FOR STRUCTURAL REINFORCING.) STEEL FIBER REINFORCEMENT SHALL BE ASTM A-820, TYPE I (35 LB/CY).
7. ALL REINFORCING STEEL SHALL BE IN PLACE WITH THE HOLE FREE FROM ALL DEBRIS AND STANDING WATER PRIOR TO PLACING CONCRETE. WIRE CHAIRS SHALL BE USED TO SUPPORT REINFORCING STEEL AT INTERVALS ADEQUATE TO INSURE THE LOCATION OF ALL REQUIRED REINFORCING. CONCRETE SHALL NOT BE PLACED ON POROUS, WET, FROZEN, OR SPONGY SUBGRADE SURFACES.
8. UNLESS NOTED OTHERWISE, CONCRETE SURFACES SHALL BE LEVEL AND SMOOTH WITH A 3/4" CHAMFER AT EXPOSED EDGES. ALL CONCRETE SHALL BE MOIST CURED FOR A PERIOD OF SEVEN (7) DAYS OR CURED BY USE OF AN APPROVED MEMBRANE CURING COMPOUND. CONCRETE TEMPERATURE AFTER INSTALLATION SHALL BE MAINTAINED AT MINIMUM 50 DEGREES F FOR MINIMUM 7 DAYS.
9. STRUCTURE FOUNDATION BASES SHALL BE PROMPTLY GROUTED TO PROVIDE FULL UNIFORM LOAD TRANSFER BETWEEN THE POINT OF SUPPORT AND THE CONCRETE FOUNDATION UTILIZING A 45° SPLAY.
10. GROUT SHALL BE "FIVE-STAR" NON-SHRINK, NON-METALLIC (MIN. 28 DAY STRENGTH = 8000 PSI MEETING ALL REQUIREMENTS OF ASTM C1107) AS MANUFACTURED BY "FIVE STAR PRODUCTS, INC.", FAIRFIELD, CT., OR APPROVED EQUAL, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. SURFACE RECEIVING GROUT SHALL BE SUFFICIENTLY BRUSHED TO ENHANCE BONDING. AIR VENTS MAY BE REQUIRED IN PLATES TO MINIMIZE AIR POCKETING DURING INSTALLATION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF PROPER LEVELING/INSTALLATION IS NOT POSSIBLE DUE TO THE PROPOSED GROUT THICKNESS. WHERE GROUT THICKNESS IS GREATER THAN 3", THE GROUT MIX SHALL INCLUDE 3/8" PEA GRAVEL (45% BY WEIGHT).
11. ISOLATION JOINT TREATMENT (UNLESS NOTED OTHERWISE): USE A PREFORMED EXPANSION JOINT MATERIAL TREATED WITH WAX (OR EQUIVALENT BOND-BREAKER).OUTER FACE OF JOINT MATERIAL TO BE 1/2" FROM SURFACE OF CONCRETE OR MASONRY (1" FOR PAVEMENT) WITH THE SPACE SEALED WITH FLEXIBLE JOINT SEALER (VERTICAL JT. & 1" RETURN: SIKAFLEX 1a; HORIZONTAL JT.: SIKAFLEX 1CSL (OR OWNER APPROVED EQUAL)).
12. ALL SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. ALL CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301 AND ACI 318.
13. WWF SHALL BE LAPPED 12" AND REBAR TENSION LAP SPLICE LENGTHS AS FOLLOWS:

	TOP BARS (CLASS B)	OTHER BARS (CLASS B)
#4 BARS	20"	16"
#5 BARS	24"	19"
#6 BARS	29"	23"
#7 BARS	42"	33"
#8 BARS	48"	37"

12. ALL EXTERIOR FOOTINGS TO EXTEND MINIMUM OF 2'-6" BELOW FINISHED GRADE.
13. FOUNDATION WALLS SHALL NOT BE BACKFILLED AGAINST UNTIL BOTH LEVELS OF THE FLOOR SLAB ARE IN PLACE OR TEMPORARY SUPPORT IS PROVIDED. WHERE FILL IS ON BOTH SIDES OF A WALL, FILL SHALL BE UNIFORMLY CONSTRUCTED ON BOTH SIDES OF THE WALL. RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED DESIGN STRENGTH. WALLS SHALL IN NO WAY BE DISTURBED DURING BACKFILL OPERATIONS.
14. SUBMIT MIX DESIGN AND SAMPLE STRENGTH TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL. SUBMIT SEPARATE MIX DESIGN FOR NON AIR-ENTRAINED CONCRETE.
15. ARCHITECTURAL, CIVIL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS SHALL BE REFERENCED FOR FLOOR FINISHES, RECESSES, FLOOR DRAINS, SANITARY SEWER, STORM CONDUCTORS, GROUNDING GRID, AND OTHER WORK AFFECTING FLOOR SLAB CONSTRUCTION. ALL WORK SHALL BE COORDINATED WITH THE RESPECTIVE CONTRACTOR.
16. ALL JOINTS SHALL BE VERIFIED AND COORDINATED TO APPROPRIATELY ACCOMMODATE FLOOR COVERINGS.
17. TENSION LAP SPLICE LENGTHS SHALL BE AS NOTED ON THE DRAWINGS. ALL SPLICE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
18. ALL CONCRETE PLACEMENT SHALL BE THOROUGHLY CONSOLIDATED BY TAMPING, SPACING, OR VIBRATING TO ELIMINATE VOIDS AND TO ENSURE ENCASEMENT OF REINFORCING AND CONTACT WITH FORM FACES. CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 304. POURS SHALL BE FREE OF COLD JOINTS UNLESS SPECIFICALLY SHOWN OTHERWISE ON DRAWINGS OR APPROVED PRIOR TO POUR.
19. LEAN CONCRETE (f'c=1500 PSI) SHALL BE PROVIDED UNDER FOUNDATIONS FOR EARTH FILL DUE TO ACCIDENTAL OVER-EXCAVATION OR SOFT SPOTS.
20. WHEN ALL DIMENSIONS ARE GREATER THAN 3' (MASS CONCRETE), CONCRETE DIFFERENTIAL TEMPERATURES (INTERIOR VS. OUTER SURFACE) AND RESULTING THERMAL CRACKING SHALL BE CONSIDERED AND PROTECTED AGAINST DURING THE POURING AND CURING PROCESSES. SPECIAL MIX DESIGNS INTENDED TO REDUCE THE HEAT OF HYDRATION (E.G. TYPE II/IV CEMENT, FLY ASH, POZZOLANS, ETC.) SHALL BE SUBMITTED FOR APPROVAL.
21. UNLESS NOTED OTHERWISE, ALL STRIP FOOTING AND WALL BARS SHALL BE BENT AROUND CORNERS 24". BARS AT THE INSIDE FACE OF THE CORNER SHALL BE CONTINUED ACROSS TO THE OUTSIDE AND THEN BENT.
22. ONE (1) #4 x 3'-0" LONG BAR SHALL BE PROVIDED AT MID-DEPTH OF SLAB DIAGONALLY AT ALL SLAB-ON-GRADE RE-ENTRANT CORNERS AND PERPENDICULAR TO JOINTS THAT TERMINATE AT A PERPENDICULAR JOINT RESPECTIVELY.
23. GRADE BEAM LONGITUDINAL REINFORCING FROM CONSECUTIVE MEMBERS SHALL BE LAPPED AT PILE CAPS. REINFORCEMENT SHALL BE EXTENDED THROUGH PILE CAP AND TERMINATED WITH STANDARD HOOKS WHERE HAVE DISCONTINUOUS END.
24. FROST WALL/MASONRY BOND BEAM LONGITUDINAL REINFORCING BARS SHALL BE CONTINUED THROUGH PEDESTALS/FOOTINGS AND BROKEN AT SLAB-ON-GRADE DOOR THRESHOLDS. (OR (AND AT SLAB-ON-GRADE DOOR THRESHOLDS WITH FOAM COLLARS AT EACH JAMB AND AT FOOTING BARS AND BOND-BREAKER BETWEEN CONCRETE POURS.
25. WHERE NOTED, SHOP DETAIL AND ERECTION DRAWINGS FOR REINFORCING STEEL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

K. CONCRETE MASONRY

1. CONCRETE MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-90 WITH A MINIMUM f'_m = 2000 PSI WITH FULL MORTAR BEDDING. ALL GROUT FOR CMU CORES SHALL MEET THE REQUIREMENTS OF ASTM C-476 FOR FINE GROUT WITH A MAXIMUM LIFT HEIGHT OF 4'-0". COMPRESSIVE STRENGTH OF GROUT SHALL NOT BE LESS THAN f'/m OR 2,000 PSI.
2. CONCRETE MASONRY MORTAR SHALL CONFORM TO ASTM C-270 AND BE AS FOLLOWS:
   -TYPE M FOR STRUCTURAL MASONRY, FROST RESISTANCE, MASONRY WORK BELOW GRADE, AND MASONRY IN CONTACT WITH EARTH
   -TYPE S FOR REINFORCED MASONRY, STRUCTURAL MASONRY, FROST RESISTANCE, AND MASONRY WORK BELOW GRADE
   -TYPE N FOR ABOVE GRADE MASONRY WALLS AND PARTITIONS
   -TYPE O FOR NON-LOAD BEARING MASONRY AND SOLID MASONRY
3. ALL CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE FILLED WITH GROUT.
4. WHERE INTERSECTING WALLS ARE NOT LAID IN BOND AS NOTED BELOW, PREFABRICATED 90°/"TEE" TRUSS TIE SECTIONS AT 8" O.C. OR STEEL CONNECTORS AT 48" O.C. SHALL BE USED. INTERSECTING INTERIOR NON-BEARING WALLS SHALL BE BONDED AS NOTED BELOW OR ANCHORED USING PREFABRICATED JOINT REINFORCEMENT OR HARDWARE CLOTH AT 16" O.C. INTERIOR NON-BEARING WALLS SHALL BE ANCHORED TO BEARING WALLS USING HARDWARE CLOTH AT 16" O.C.
5. A MINIMUM 3/4" CLEARANCE BETWEEN ALL REINFORCING BARS AND MASONRY UNITS SHALL BE MAINTAINED WHERE POSSIBLE.
6. BOND BEAMS SHALL BE PROPERLY TIED TOGETHER AT WALL INTERSECTIONS (90° AND "TEE").
7. UNLESS NOTED OTHERWISE, BOND BEAMS SHALL BE CONCRETE FILLED WITH (2) CONTINUOUS #5 BARS.
8. UNLESS NOTED OTHERWISE, ALL MASONRY WALLS SHALL BE CONSTRUCTED IN RUNNING BOND AND 50 PERCENT OF THE MASONRY UNITS SHALL INTERLOCK AT ALL INTERSECTING WALLS.
9. UNLESS NOTED OTHERWISE, MASONRY CONTROL JOINTS SHALL BE SPACED AT 20'-0" MAXIMUM.
10. THE MINIMUM QUALITY ASSURANCE PROGRAM FOR INSPECTION AND TESTING OF MASONRY CONSTRUCTION SHALL COMPLY WITH TABLE 1.19.2 – LEVEL B QUALITY ASSURANCE AS REQUIRED IN ACI 530-11, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
11. CONCRETE MASONRY UNITS SHALL NOT BE WETTED BEFORE LAYING.
12. OPENINGS FOR PIPE/CONDUIT SHALL BE PROPERLY COORDINATED AND SLEEVED.
13. THE ENGINEER SHALL BE NOTIFIED IF ANY ADDITIONAL OPENINGS GREATER THAN 3" IN ANY DIRECTION THROUGH THE MASONRY ARE REQUIRED.
14. BULL-NOSED BLOCK SHALL BE USED AT ALL EXPOSED CORNERS.
15. LAP SPLICE LENGTHS:
    A. #4 BARS – 24"
    B. #5 BARS – 30"
    C. #6 BARS – 36"
    D. #7 BARS – 42"
    E. #8 BARS – 48"
16. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN 1/5 x LAP SPLICE LENGTH NOR 8".
17. MORTAR AND GROUT SHALL HAVE LIMITED AND NO AIR ENTRAINING ADMIXTURES RESPECTIVELY.
18. UNLESS NOTED OTHERWISE, GALVANIZED JOINT REINFORCING SHALL BE PROVIDED AT 8" O.C. VERTICALLY (STD. "HOHMAN & BARNARD 120 TRUSS-MESH" OR EQUIVALENT).
19. MASONRY ACCESSORIES (E.G. JOINT REINFORCEMENT, ANCHORS, WALL TIES, ETC.) LOCATED IN EXTERIOR WALL AND INTERIOR WALL CONSTRUCTION SHALL BE HOT-DIPPED GALVANIZED AND MILL GALVANIZED RESPECTIVELY IN ACCORDANCE WITH IBC 2103.13.7.
20. GROUT PLACEMENT SHALL BE IN ACCORDANCE WITH IBC 2104.1.2.7.
21. UNLESS NOTED OTHERWISE, JOINT REINFORCING SHALL BE CONTINUOUS OR LAPPED 6".
22. BOND BEAMS SHALL BE LOCATED AS INDICATED ON THE DRAWINGS.
23. UNLESS NOTED OTHERWISE, ADDITIONAL #4 VERTICAL BARS SHALL BE PROVIDED IN ALL CELLS IMMEDIATELY ADJACENT TO OPENINGS, ON EACH SIDE OF CONTROL JOINTS, AT WALL ENDS, AT 90° INTERSECTIONS, AND AT "TEE" INTERSECTIONS. BARS SHALL CONTINUE THROUGH LINTEL/BOND BEAM. UNLESS NOTED TO ONLY BE DEVELOPED SOME DISTANCE BEYOND THE TOP AND/OR BOTTOM OF AN OPENING, VERTICAL BARS SHALL BE CONTINUOUS BETWEEN HORIZONTAL SUPPORTS.
24. SPLIT FACE CMU BLOCKS, NOMINAL 4" SPLICE FACE VENEER 4" AND 8" IN HEIGHT, COLORS PER ARCHITECTURAL DRAWINGS.

M. EARTHWORK

1. THE BID SUM SHALL INCLUDE ALL EARTHWORK AS REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PROJECT DOCUMENTS. FOLLOW ALL RECOMMENDATIONS IN THE "GEOTECHNICAL EXPLORATION & ENGINEERING ANALYSIS" REPORT FROM AMERICAN GEOTECH, INC. DATED OCTOBER 2021.
2. EXCESS EXCAVATION NOT REUSED ON SITE SHALL BE RELOCATED AND PROPERLY SPOILED OFF-SITE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING AUTHORITIES HAVING JURISDICTION. SPOILS SHALL ONLY BE KEPT ON SITE WHEN SO SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. ALL SUBGRADES SHALL BE INSPECTED BY THE OWNER OR OWNER REPRESENTATIVE PRIOR TO PLACEMENT OF EMBANKMENT, AGGREGATE, CONCRETE, ASPHALT, ETC. THE CERTIFIED TESTING AGENCY SHALL VERIFY ALL SUBGRADES HAVE BEEN COMPACTED TO AT LEAST 98% OF THE MATERIAL'S MAXIMUM DRY DENSITY (OBTAINED IN ACCORDANCE WITH ASTM STANDARD METHOD D-698), ARE NOT FROZEN, HAVE ALLOWABLE BEARING CAPACITIES OF NO LESS THAN 2500/2000 PSF, HAVE AVERAGE ALLOWABLE PASSIVE STRENGTH OF NO LESS THAN 900 PSF (OR DELETE AVERAGE AND USE PCF), AND ARE NEAR OPTIMUM MOISTURE CONTENT (+2%/-3%) OR (+3%/-0%). THE UPPER 12" OF SUBGRADE SOILS DIRECTLY BELOW PAVEMENT BASE STONE SHALL HAVE 100% COMPACTION. IF REQUIRED, THE AGENCY'S GEOTECHNICAL ENGINEER SHALL ALSO DETERMINE THE LIMITS OF ADDITIONAL EXCAVATION.
4. IF UNSUITABLE MATERIAL IS FOUND AT THE DRAWING FOUNDATION/SUBGRADE DEPTHS, ADDITIONAL EXCAVATION SHALL BE REQUIRED UNTIL SUITABLE BASES ARE ENCOUNTERED. ADDITIONAL EXCAVATIONS ARE TO BE BACKFILLED WITH PROPERLY COMPACTED ENGINEERED (CONTROLLED) FILL OR AGGREGATE BASE MATERIAL. THE AGGREGATE BASE SHALL BE ITEM 307001-000 AND BE PLACED ON A SUBGRADE PROPERLY PREPARED IN ACCORDANCE WITH WVDOH 228/307. UNLESS NOTED OTHERWISE, AGGREGATE BASE SHALL BE PLACED IN MAXIMUM 6" COMPACTED DEPTH LIFTS AND COMPACTED TO AT LEAST 100% PER ASTM D-698 AT OPTIMUM MOISTURE CONTENT. ALTERNATE METHODS AND MATERIALS CORRESPONDING TO SUBGRADE PREPARATION MAY BE REQUIRED DURING CONSTRUCTION. ALTERNATE METHODS MUST BE APPROVED BY THE ENGINEER.
5. SOIL DESIGNATED AS UNSUITABLE (E.G. TOPSOIL) SHALL BY NO MEANS BE USED AS FILL MATERIAL. ALL EXCAVATION AND EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH WVDOH 207/211/228 (ODOT: ODOT CMS 203/204), THE PROJECT SOILS REPORT, AND THE PROJECT DOCUMENTS. ALL EARTHWORK SHALL ALSO BE IN DIRECT ACCORDANCE WITH OSHA REQUIREMENTS. TEMPORARY SHORING, TRENCH BOXES, SUMP PUMPS, ETC. SHALL BE USED DURING CONSTRUCTION AS REQUIRED.

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Rev.	Description	By	Date
0	ISSUED FOR BID	ESS	2/23/22
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Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
GENERAL NOTES

ERIC S. SMITH
REGISTERED
18474
PROFESSIONAL ENGINEER
STATE OF WEST VIRGINIA

Project:	2201011
Designed By:	STC
Drawn By:	STC
Checked By:	ESS
Scale:	12" = 1'-0"
Plot Date:	2/23/22
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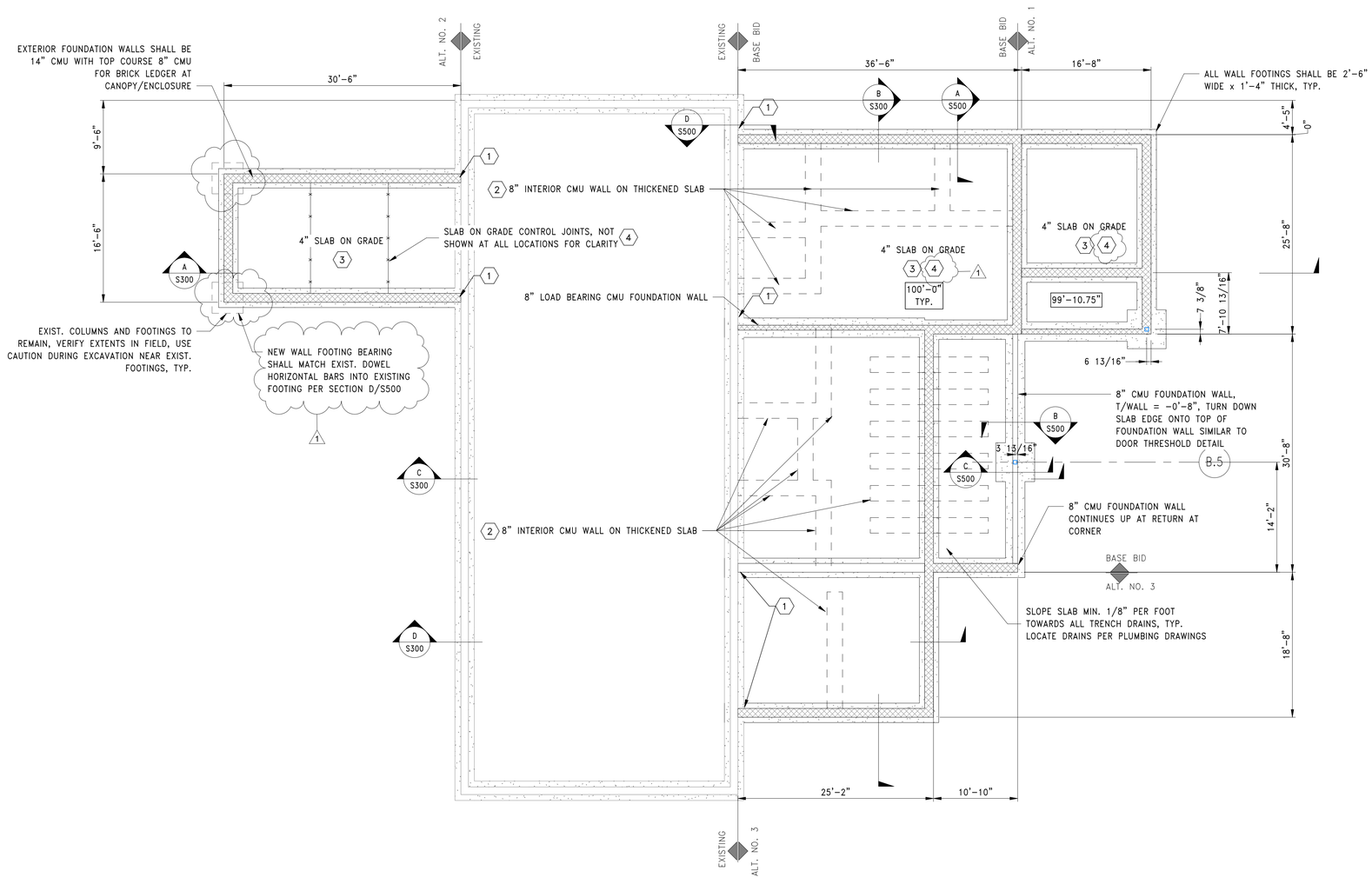
S001



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FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

NOTE: EXTERIOR FOUNDATION WALLS SHALL BE 14" CMU WITH TOP COURSE 10" CMU FOR BRICK LEDGER, TYP. U.N.O. VERIFY EXTENDS AND CHOSEN ALTERNATES FOR LOCATIONS AND DIMENSIONS OF EXTERIOR FOUNDATION WALLS. COORDINATE WALL TYPES WITH ARCHITECTURAL AND EXTERIOR GRADE LOCATIONS WITH CIVIL DRAWINGS FOR DETERMINATION OF WHEN TO TRANSITION CMU THICKNESSES

NOTES:

1. LOCATION AND DIMENSION OF COLUMNS, WALLS, OPENINGS, ETC. SHALL BE VERIFIED WITH CIVIL AND ARCHITECTURAL DRAWINGS PRIOR TO POURING FOUNDATIONS.
2. FOLLOW ALL GEOTECHNICAL RECOMMENDATIONS FOR OVER EXCAVATION, ENGINEERED FILL REPLACEMENT AND ALL SUBGRADE PREPARATIONS, TYP.
3. DRAWING NUMBERS S001 AND S002 SHALL BE REFERENCED FOR GENERAL NOTES.
4. ARCHITECTURAL , CIVIL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS SHALL BE REFERENCED FOR FLOOR FINISHES, FLOOR DRAINS, SANITARY SEWER, AND OTHER WORK AFFECTING FLOOR SLAB CONSTRUCTION. ALL WORK SHALL BE COORDINATED WITH THE RESPECTIVE CONTRACTOR.
5. XXX'-XX" INDICATES TOP OF FOOTING OR TOP OF SLAB ELEVATION.
6. DESIGN BEARING CAPACITY SHALL BE INDEPENDENTLY VERIFIED BY AN INDEPENDENT TESTING AGENCY SPECIALIZING IN SOILS INVESTIGATIONS. ANY SOFT SPOTS OR VARIATIONS IN SUBSURFACE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
7. UNLESS NOTED OTHERWISE, 1/2" EXPANSION JOINT MATERIAL SHALL BE PROVIDED AROUND ALL FLOOR SLAB PENETRATIONS LARGER THAN 2".
8. ▼ INDICATES FOOTING STEP. DETAIL 1/S500 SHALL BE REFERENCED.
9. PLUMBING, MECHANICAL, ELECTRICAL, ETC. STUB-UPS, CASINGS, FOUNDATION WALL SLEEVES, FLOOR RECESSES, ETC. SHALL BE COORDINATED WITH THE RESPECTIVE DISCIPLINE DRAWINGS AND CONSTRUCTED IN ACCORDANCE WITH GOVERNING CODE REQUIREMENTS.
10. (±X") INDICATES SURFACE DELTA ELEVATION AS COMPARED TO THE REFERENCE ELEVATION.
11. FOOTING REINFORCING AT FOOTINGS PART OF A WALL FOOTING ARE IN ADDITION TO THE RESPECTIVE WALL FOOTING'S REINFORCING.
12. UTILITY LINES THAT PASS UNDER FOOTINGS WITH LESS THAN 18" CLEAR COVER OR THROUGH FOUNDATION WALLS/FLOOR SLABS SHALL BE PROTECTED FROM CORROSION, ABRASION, STRUCTURAL LOADING, DIFFERENTIAL MOVEMENT, ETC. BY USE OF SCH. 80 STEEL PIPE RELIEVING ARCHES AND SCH. 40 PVC PIPE SLEEVES RESPECTIVELY. PIPE SHALL BE TWO PIPE SIZES LARGER THAN THE UTILITY WITH THE ANNULAR SPACE TIGHTLY CAULKED IN AN APPROVED MANNER. FINAL SLEEVE LOCATIONS SHALL BE CLOSELY COORDINATED WITH THE RESPECTIVE CONTRACTOR. SLEEVES SHALL BE EITHER PLACED PRIOR TO FINAL PREPARATION OF FOOTING SUBGRADE OR CAST INTO WALL WITH THE UTILITY CONTRACTOR RESPONSIBLE FOR PLACEMENT OF THE LINE AND FINAL CAULKING. SLEEVES SHALL BE LOCATED AS NEAR AS POSSIBLE TO MID-DEPTH OF THE MEMBER AT MID-SPAN AND AS TO ENSURE A MINIMUM 1 1/2" CLEAR COVER TO THE NEAREST REINFORCING. OTHER DISCIPLINE DRAWINGS, THE IFGC, THE IPC, AND THE NEC SHALL BE REFERENCED FOR ADDITIONAL INFORMATION/REQUIREMENTS.
13. TIE NEW AND EXISTING SLABS TOGETHER AT EXISTING DOOR OPENINGS SIMILAR TO THRESHOLD SECTION B/S500, TYP.
14. SEE DETAIL 11/S500 FOR REPAIRING SAWCUTS OF EXISTING SLAB FOR INSTALLATION OF NEW PLUMBING, REFER TO PIPING DRAWINGS FOR EXTENTS OF ALL SAWCUTS REQUIRED.

CODED NOTES:

1. EXTENTS AND DEPTH OF EXISTING FOOTING UNKNOWN, VERIFY IN FIELD PRIOR TO CONSTRUCTION. NEW FOOTING BEARING DEPTH SHALL MATCH EXISTING, TYP. STEP AS REQUIRED PER DETAIL 1/S500.
2. THICKENED SLAB BELOW ALL INTERIOR CMU WALLS, TYP. REFER TO TYPIAL THICKENED SLAB DETAIL ON S500.
3. NEW 4" SLAB ON GRADE AT ALL NEW BUILD LOCATIONS, REINFORCED AT MID DEPTH WITH 6x6xW2.0xW2.0 WELDED WIRE REINFORCING CENTERED IN SLAB. FOLLOW ALL GEOTECHNICAL RECOMMENDATIONS FOR SUBGRADE PREPARATIONS. SLOPE ALL SLABS TO TRENCH DRAINS, LOCATE AND SIZE TRENCH DRAINS PER PLUMBING DRAWINGS, TYP. PROVIDE SAWCUT JOINTS FROM TRENCH DRAIN CORNERS TO REDUCE CRACKING FROM REENTRANT CORNERS, TYP.
4. ALL NEW SLAB ON GRADES SHALL HAVE CONTROL JOINTS AT 10'-0" O.C. OF 100SF MAXIMUM, NOT ALL JOINTS ARE SHOWN ON PLAN FOR CLARITY, LAYOUT TO BE PROVIDED BY CONTRACTOR. REFER TO DETAIL 2/S500 FOR MORE INFORMATION.

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0	ISSUED FOR ADDENDUM	ESS	2/23/22
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Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
FOUNDATION PLAN

ERIC S. SMITH
REGISTERED
18474
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	STC
Drawn By:	STC
Checked By:	ESS
Scale:	AS NOTED
Plot Date:	2/23/22
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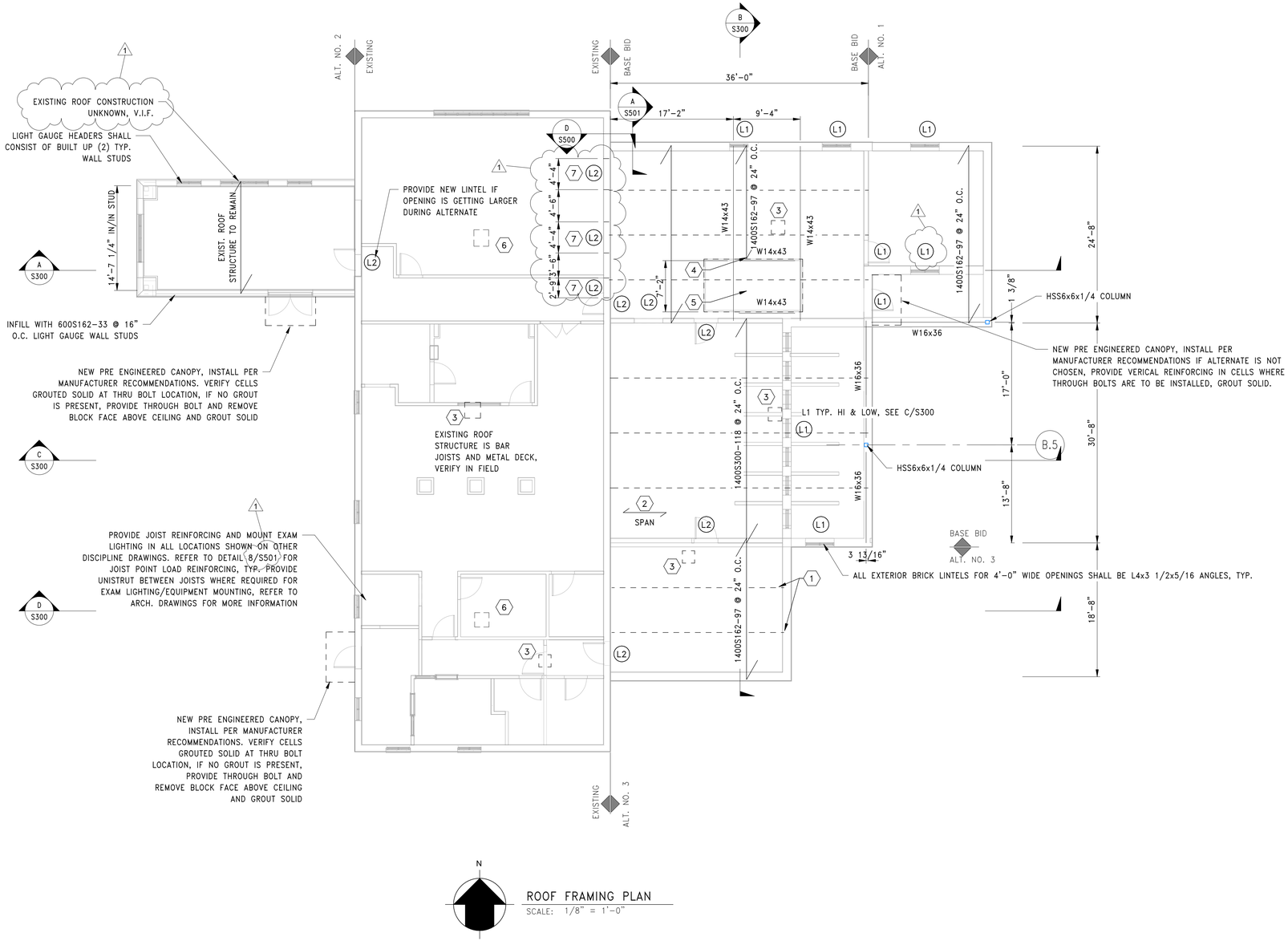
S111



N

ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO CONSTRUCTION AND EMOLITION, TYP.
2. DRAWINGS S001 AND S002 SHALL BE REFERENCED FOR GENERAL NOTES.
3. ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE REFERENCED FOR MINOR FLOOR, WALL, AND ROOF PENETRATIONS. ALL WORK SHALL BE COORDINATED WITH THE RESPECTIVE CONTRACTOR.
4. WALL, FLOOR, AND ROOF FRAMING SHALL BE IN ALIGNMENT WHERE AT ALL POSSIBLE. WHERE DIFFERING SPACINGS OCCUR, SPACING ORIGINS SHALL BE SUCH THAT A MAXIMUM NUMBER OF MEMBERS ARE ALIGNED.
5. PARTITION WALL TOP TERMINATION/SUPPORT/BRACING DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. PARTITION WALLS SHALL BE SUFFICIENTLY STIFFENED. WALLS SHALL BE EXTENDED TO STRUCTURE ABOVE (DECK, JOISTS, TRUSSES, ETC.) AND TERMINATED WITH VERTICAL-DEFLECTION-ACCOMMODATING CONNECTION, PIN-CONNECTION BRACED WITH VERTICAL KICKERS, BRACED AT CORNERS WITH HORIZONTAL KICKERS, OR TIED TOGETHER WITH STRUTS. PARTITIONS RUNNING PERPENDICULAR TO ROOF FRAMING SHALL BE SUPPORTED WITH STC OR STCT ROOF TRUSS CLIPS. (ADDITIONAL TRANSVERSE MEMBERS BETWEEN BOTTOM CHORDS SHALL BE ADDED FOR WALLS PARALLEL TO JOISTS.) UNLESS NOTED OTHERWISE, WALL STUDS AND DRYWALL SHALL EXTEND A MINIMUM OF 12" AND 4" ABOVE CEILING RESPECTIVELY. WHERE REQUIRED FOR SOUND ATTENUATION, STUDS AND ACOUSTIC BATT SHALL BE EXTENDED TO THE DECK WITH THE BATT FASTENED TO THE STUDS.
6. ALL SILL AND SOLE PLATES IN CONTACT WITH MASONRY OR CONCRETE AT EXTERIOR OR SUBGRADE LOCATIONS SHALL BE PRESERVATIVE-TREATED. IBC 2304.11 SHALL BE REFERENCED FOR FURTHER DETAILS.
7. INSULATION, REINFORCING, FLASHING, ETC MAY NOT BE SHOWN ON ALL SECTIONS OR DETAILS. HARDWARE, FASTENERS, CLIP ANGLES, ETC. MAY ALSO NOT ALL BE SHOWN ON THE SECTIONS AND DETAILS.
8. ALL EXPOSED STEEL SHALL BE GALVANIZED.
9. ALL CONNECTION DETAILS SHOWN ON THE DRAWINGS SHALL BE REVIEWED FOR CONSTRUCTABILITY BY THE FABRICATOR.
10. PROVIDE DOUBLE LIGHT GAUGE JOIST FRAMING AROUND EXHAUST FANS/SUPPORTS, BLOCKING AS REQUIRED, AND ATTACH PER MANUFACTURER SPECIFICATIONS. COORDINATE SUPPORT STEEL AND DECK OPENING WITH FAN REQUIREMENTS.
11. TOP COURSE OF ALL CMU WALLS SHALL BE BOND BEAM REINFORCED WITH (2) #5 BARS CONTINUOUS AND GROUTED SOLID.

CODED NOTES:

1. LIGHT GAUGE JOIST BRIDGING, SEE GENERAL NOTES FOR SPACING REQUIREMENTS AND TYPICAL DETAILS FOR MORE INFORMATION. PROVIDE BRIDGING AT EACH BAY IN ACCORDANCE WITH AISI AND MANUFACTURER SPECIFICATIONS. SEE BRIDGING SPACING TABLE.
2. 1" TYPE E x 24 GAUGE (1.0E24 BY VULCRAFT) OR APPROVED SIMILAR, ROOF DECK CONTINUOUS ACROSS A MINIMUM OF (2) SPANS AND BE VULCRAFT OR APPROVED EQUAL. INSTALL DECK IN ACCORDANCE WITH STEEL DECK INSTITUTE AND MANUFACTURER SPECIFICATIONS. ATTACH 36" ROOF DECK TO SUPPORT MEMBERS WITH #12 TEK SCREWS AT SIDE LAPS AND AT LEAST (1) INTERIOR RIB (18" MAX. C/C SPACING). INTERIOR DECK ENDS SHALL HAVE A MINIMUM 2" LAP AND BE CENTERED OVER SUPPORT WITH A MINIMUM 1 1/2" BEARING (OR AS RECOMMENDED BY MANUFACTURER). DECK SHALL HAVE A MINIMUM 1 1/2" PERIMETER END BEARING. END PERIMETER EDGES SHALL BE ATTACHED AT SIDE LAPS AND (2) INTERMEDIATE RIBS (12" MAX. C/C SPACING). PERIMETER EDGES AND SIDE LAPS SHALL BE ATTACHED WITH (0) ADDITIONAL INTERMEDIATE #10 TEK SCREW FASTENER AT MIDSPAN. EACH ATTACHMENT MUST RESIST THE HORIZONTAL FORCE REQUIRED TO PROVIDE ADEQUATE LATERAL BRACING FOR THE PURLINS.
3. OPENING FOR EXHAUST FAN, LOCATE AND SIZE PER MECHANICAL DRAWINGS, ENSURE ROOF FRAMING IS PRESENT AROUND OPENING PER DETAIL 9/S501, TYP.
4. ATTACH LIGHT GAUGE JOISTS TO STEEL BEAM WITH S/LBV1.68/14 WELD ON JOIST HANGER BY SIMPSON STRONG-TIE. PROVIDE 1/8"x2" EACH SIDE OF EACH TOP STRAP, FIELD WELD TO STEEL BEAM PER MANUFACTURER RECOMMENDATIONS.
5. ROOFTOP UNIT, LOCATE PER MECHANICAL. PROVIDE (4) STEEL BEAMS FRAMING AROUND UNIT CURB. MAX WEIGHT OF UNIT IS NOT TO EXCEED 9,000lbs. VERIFY FRAMING REQUIREMENTS WITH MANUFACTURER FOR SUPPORT REQUIREMENTS OF RTU, TYP.
6. EXISTING MECHANICAL ROOF OPENINGS TO BE PATCHED BACK, SIZE OF OPENING(S) UNKNOWN, VERIFY IN FIELD. SUPPLY LOOSE ROOF OPENING FRAMING ANGLES PER DETAIL 9/S501 AND PATCH BACK WITH 1" ROOF DECK, INSULATION TO MATCH EXISTING AND ROOFING PER ARCHITECTURAL.
7. OPENING FOR MECHANICAL DUCT PENETRATION, VERIFY LOCATION, ELEVATIONS AND DIMENSIONS WITH MECHANICAL DRAWINGS. PROVIDE (1) ANGLE PER 4" WIDTH OF MASONRY.

LINTEL SCHEDULE	
MARK	LINTEL SIZE
L1	L5x3 1/2x3/8
L2	L6x4x3/8

NOTES:
1. ALL LINTELS ARE FOR EACH 4" UNIT WIDTH OF MASONRY, TYP.
2. ALL ANGLES SHALL HAVE THEIR SHORT LEG OUTSTANDING AND 6" MINIMUM BEARING.
3. LINTELS OVER OPENINGS IN INTERIOR MASONRY PARTITIONS NOT OTHERWISE SPECIFIED SHALL BE PRECAST CONCRETE LINTELS WITH (1) #5 BAR TOP AND BOTTOM FOR EACH 4" UNIT WIDTH OR SHALL BE L4x3 1/2x5/16 ANGLES.
4. ALL EXTERIOR MASONRY LINTELS SHALL BE GALVANIZED, TYP.

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Rev.	Description	By	Date
0	ISSUED FOR BID	ESS	2/01/22
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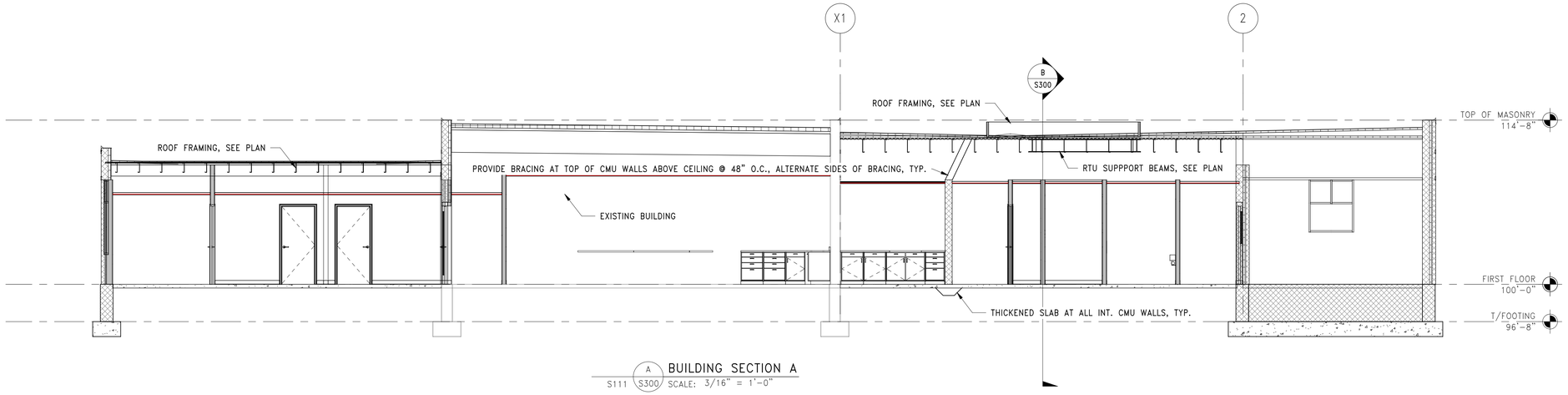
Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
FRAMING PLAN

Project:	2201011
Designed By:	STC
Drawn By:	STC
Checked By:	ESS
Scale:	As indicated
Plot Date:	2/23/22
Revision:	1

Drawing Number:
S112



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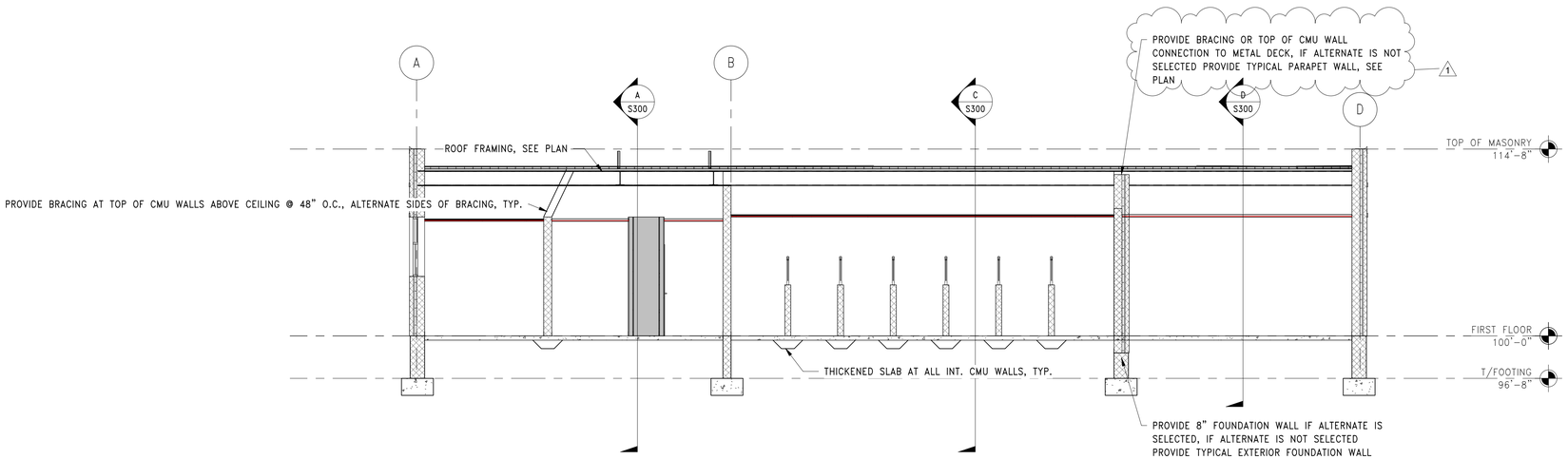

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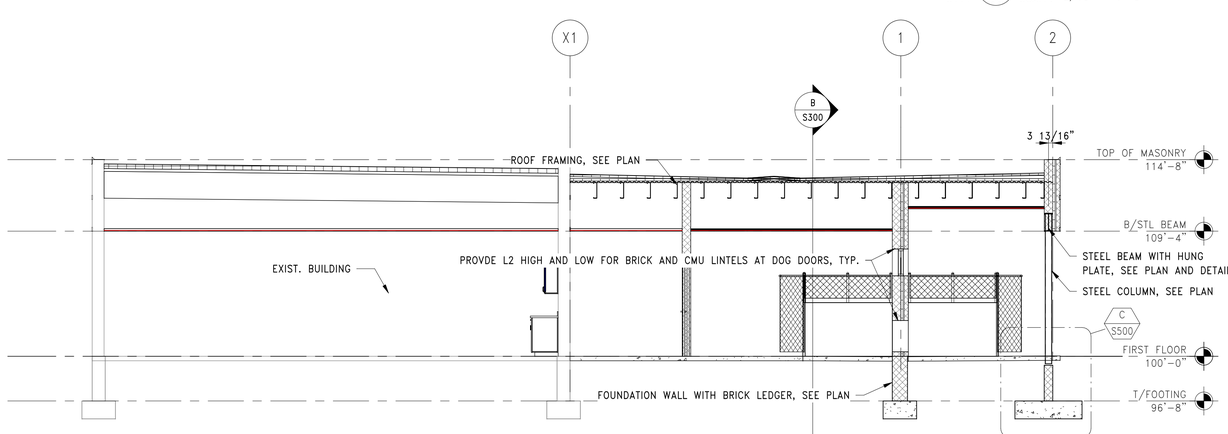

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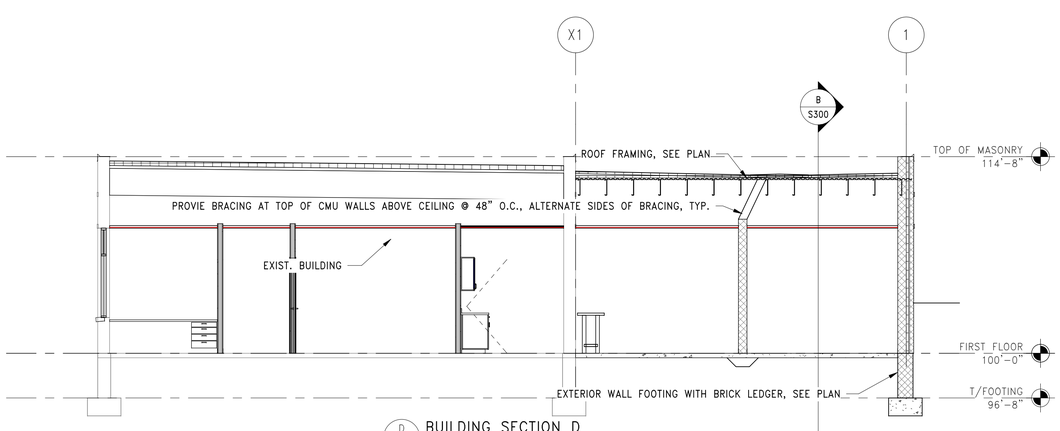

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501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
BUILDING SECTIONS

ERIC S. SMITH
REGISTERED
18474
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
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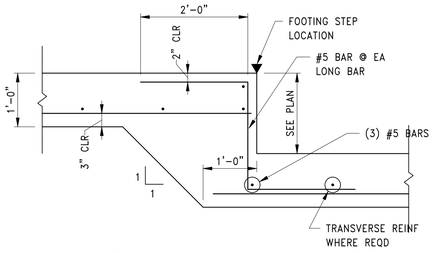

1 S500 TYP. STEPPED FTG DETAIL
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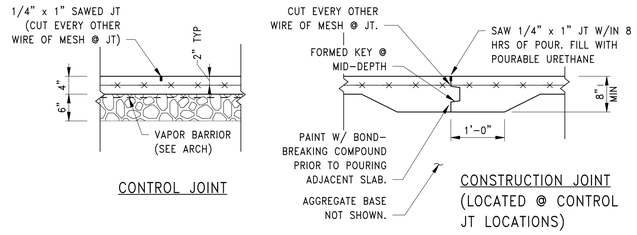

2 S500 TYP. 4IN SLAB CNTL JT
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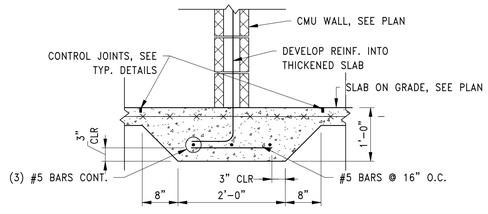

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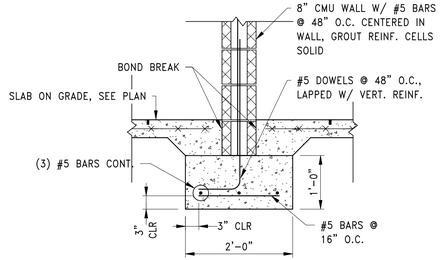

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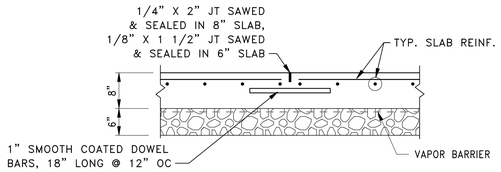

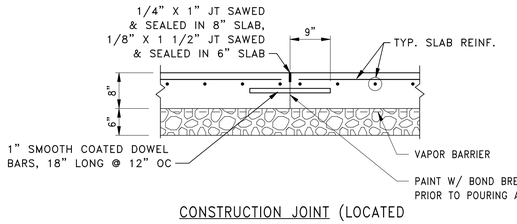

5 S500 TYP. DOWELED CONTROL JOINT DETAIL
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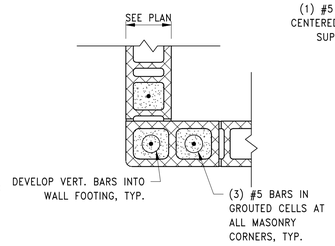

6 S500 TYP. CMU CORNER DETAIL
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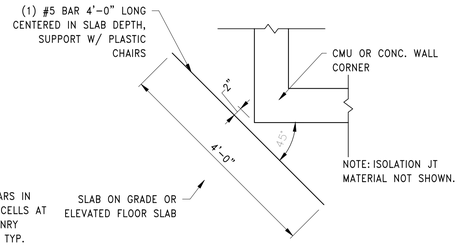

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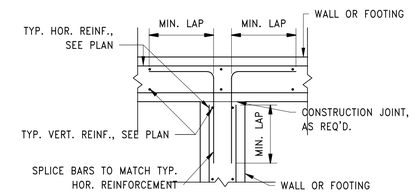

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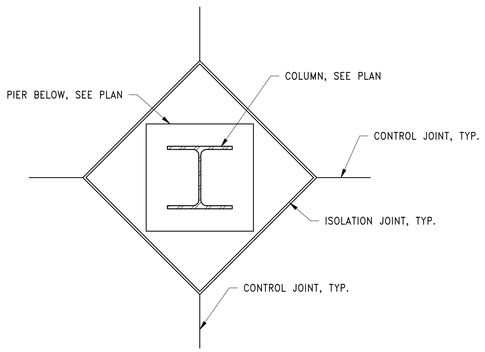

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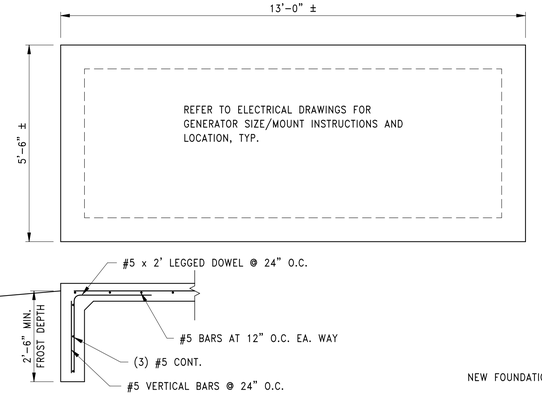

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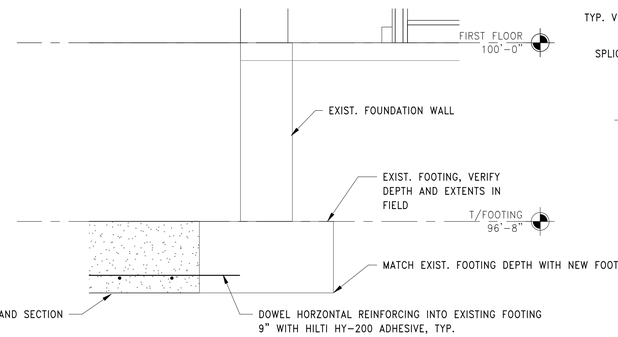
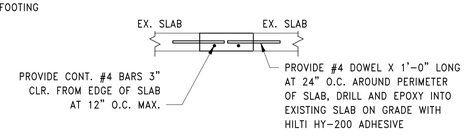
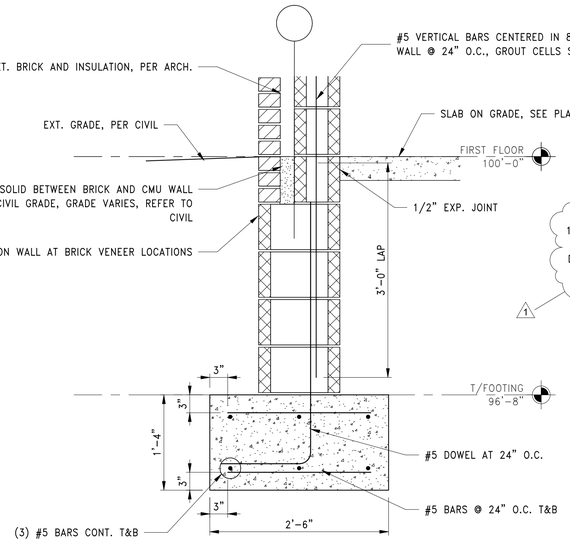


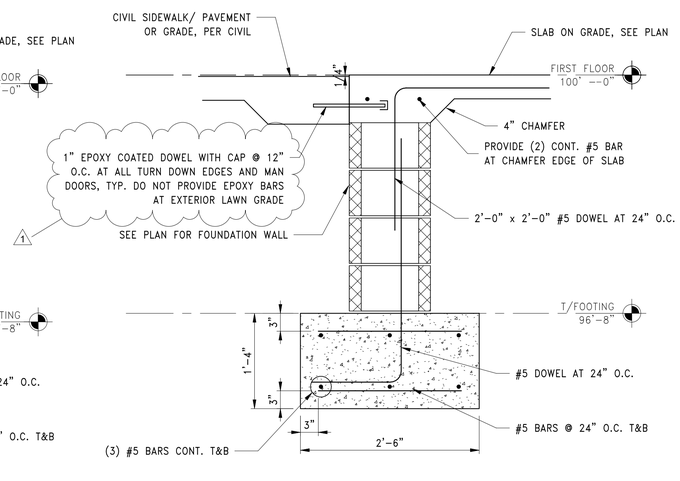
D S111 S500 NEW FOOTING AT EXIST. FOOTING
SCALE: 3/4" = 1'-0"



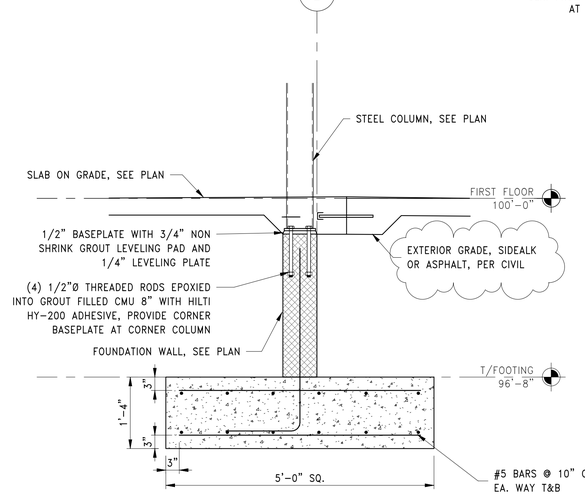
11 S500 SLAB REPAIR DETAIL
SCALE: 3/4" = 1'-0"



A S111 S500 TYPICAL WALL SECTION
SCALE: 1" = 1'-0"



B S111 S500 THRESHOLD SECTION
SCALE: 1" = 1'-0"



C S111 S500 EXTERIOR COLUMN FOOTING
SCALE: 3/4" = 1'-0"

REINF. BAR LAP SPLICES		
BAR SIZE	TOP BARS (CLASS B)	OTHER BARS (CLASS B)
#3	19"	15"
#4	25"	19"
#5	31"	24"
#6	37"	29"
#7	54"	42"
#8	62"	47"

NOTES:
1. APPLICABLE TO BARS IN TENSION ONLY (NOT FOR COMPRESSION LAP SPLICES).
2. CLEAR SPACING OF BARS IS GREATER THAN $2d_b$.
3. CLEAR COVER IS GREATER THAN d_b.
4. UNCOATED OR ZINC-COATED REINFORCEMENT ONLY (NOT APPLICABLE FOR EPOXY COATED).
5. ALL CONCRETE IS NORMAL-WEIGHT, f'_c=4000 PSI.
6. ALL WWR SHALL BE LAPPED 12".

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Rev.	Description	By	Date
0	ISSUED FOR BID	ESS	2/23/22
1	ISSUED FOR ADDENDUM	ESS	2/01/22

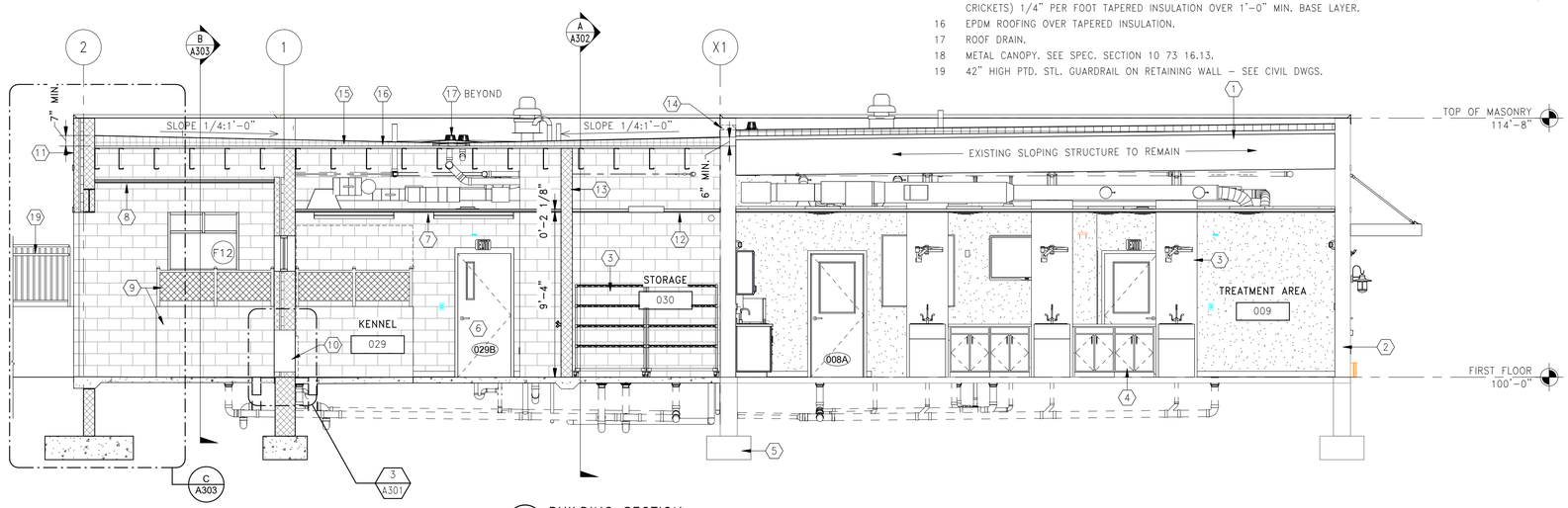
Drawing Description
PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
STRUCTURAL FOUNDATION DETAILS

ERIC S. SMITH
REGISTERED
18474
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

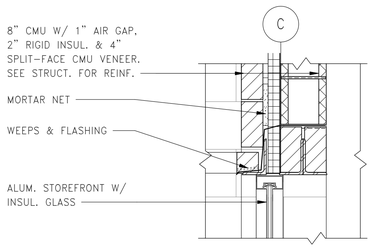
Project:	2201011
Designed By:	STC
Drawn By:	STC
Checked By:	ESS
Scale:	As indicated
Plot Date:	2/23/22
Revision:	1
Drawing Number:	S500

CODED NOTES

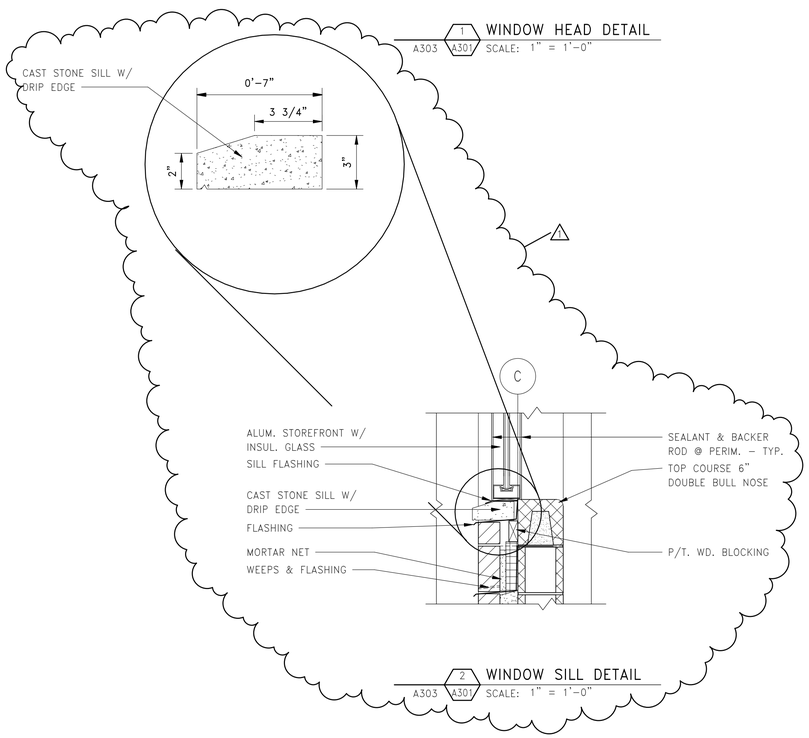
1. EXISTING ROOF STRUCTURE AND INSULATION THICKNESS IS UNKNOWN. FOR BIDDING PURPOSES, OVER MAIN PART OF EXISTING BUILDING, ASSUME EXISTING ROOF STRUCTURE IS SLOPING TOWARD EXISTING DRAIN LOCATION. PROVIDE NEW EPDM ROOFING OVER NEW CONTINUOUS R-20 (4" MIN. THICK) RIGID INSULATION, OVER CANOPY, ASSUME EXISTING ROOF STRUCTURE IS FLAT. INSTALL NEW TAPERED INSULATION AS SPECIFIED.
2. EXISTING MASONRY WALL.
3. SEE DWGS. A140 & A141 FOR EQUIPMENT– TYP.
4. EQUIP. NO. 09.1 PROVIDED BY OWNER & INSTALLED BY CONTRACTOR.
5. EXIST. FOUNDATION WALL AND FOOTING IS UNKNOWN. VERIFY IN FIELD PRIOR TO CONSTRUCTION. SEE STRUCT. FOUNDATION PLAN FOR ADDITIONAL INFO.
6. INSTALL UNDER ALT. NO. 3.
7. PAINTED GYP. BOARD.
8. ALUM. SOFFIT (NON-PERFORATED).
9. 4'-0" HIGH 6" PTD. CMU W/2'-0" HIGH MESH PARTITION ABOVE. – PROVIDED BY OWNER & INSTALLED BY CONTRACTOR.
10. 4" HIGH CONC. CURB & GUILLOTINE DOOR– TYP. @ 7 KENNELS.
11. TYP. EXTERIOR WALL: 8" CMU WITH 2" RIGID INSUL., 1" AIRSPACE & PTD. 4" SPLIT-FACE CMU VENEER.
12. 2 X 2 LAY-IN CEILING
13. 8" CMU WALLS – TYP., UNLESS NOTED OTHERWISE.
14. PATCH OPENING IN MASONRY WALL @ OVERFLOW SCUPPER (TYP. @ 3 LOCATIONS). SEAL TO MAINTAIN 2-HOUR RATED ASSEMBLY.
15. ROOF INSULATION THICKNESS TO MEET THE FOLLOWING REQUIREMENTS: R-20 MIN. BASED ON AVERAGE THICKNESS (EXCLUDING CRICKETS) 1/4" PER FOOT TAPERED INSULATION OVER 1'-0" MIN. BASE LAYER.
16. EPDM ROOFING OVER TAPERED INSULATION.
17. ROOF DRAIN.
18. METAL CANOPY. SEE SPEC. SECTION 10 73 16.13.
19. 42" HIGH PTD. STL. GUARDRAIL ON RETAINING WALL – SEE CIVIL DWGS.



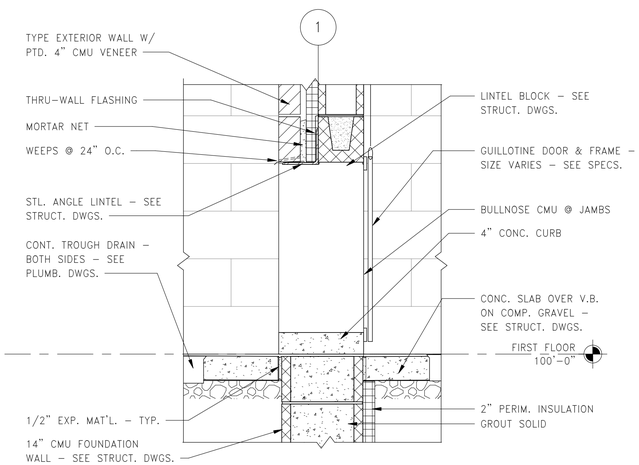
A A302 BUILDING SECTION
A110 A301 SCALE: 1/4" = 1'-0"



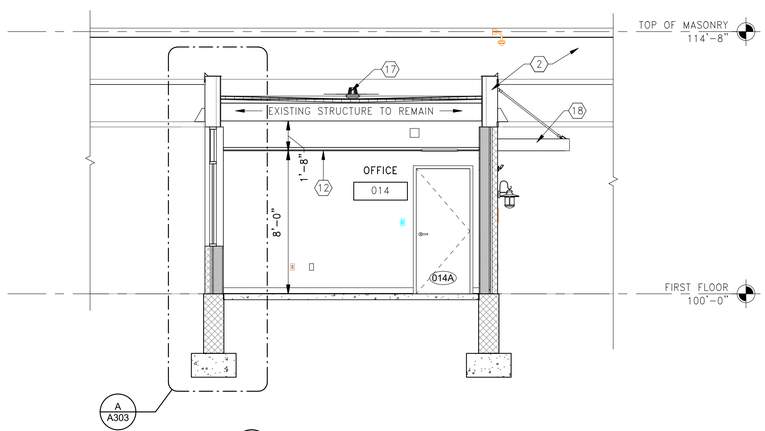
1 A303 A301 WINDOW HEAD DETAIL
SCALE: 1" = 1'-0"



2 A303 A301 WINDOW SILL DETAIL
SCALE: 1" = 1'-0"



3 A301 A301 DOG DOOR DETAIL
SCALE: 1" = 1'-0"



B A110 A301 BUILDING SECTION – ALT. NO. 2
SCALE: 1/4" = 1'-0"

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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	PJW	02/23/22
0	ISSUED FOR BID	PJW	02/01/2022

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
BUILDING SECTIONS

STATE OF WEST VIRGINIA
PAMELA JO WEAN
NO. 3331
REGISTERED ARCHITECT

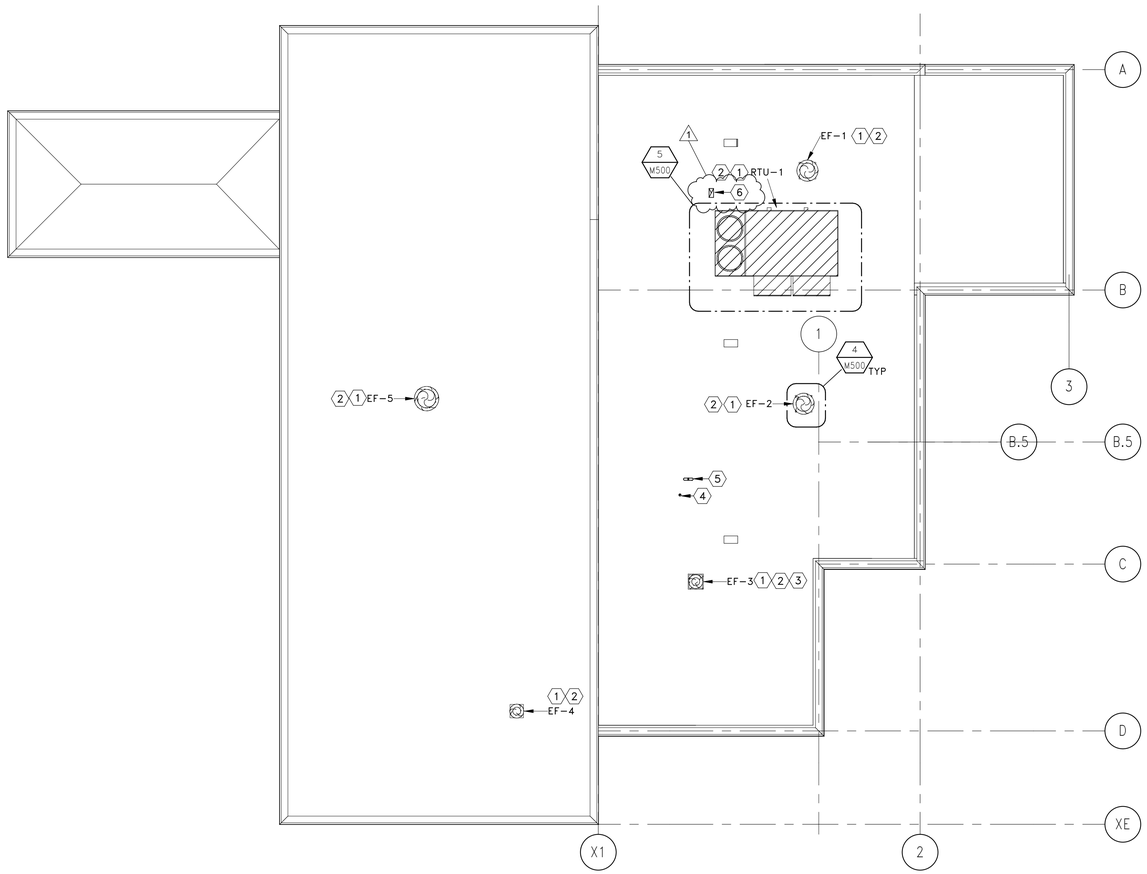
Project:	2201011
Designed By:	JGH
Drawn By:	JGH
Checked By:	PJW
Scale:	As indicated
Plot Date:	02/23/22
Revision:	1

Drawing Number:
A301

CODED NOTES:

1. LOCATE NEW EQUIPMENT MINIMUM OF 10' FROM EDGE OF ROOF.
2. PROVIDE NEW CURB.
3. FAN TO BE PROVIDED IF ALTERNATE ACCEPTED.
4. EXHAUST VENT. COVER WITH BIRDSCREEN. TERMINATE MINIMUM OF 12" ABOVE AIR INLET.
5. COMBUSTION INTAKE. TERMINATE WITH GOOSENECK, MINIMUM OF 6" ABOVE ROOF/SNOW LINE. COVER WITH BIRDSCREEN.
6. EXHAUST VENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TERMINATE WITH ROOF CAP, BACKDRAFT DAMPER, AND BIRDSCREEN.

1



MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

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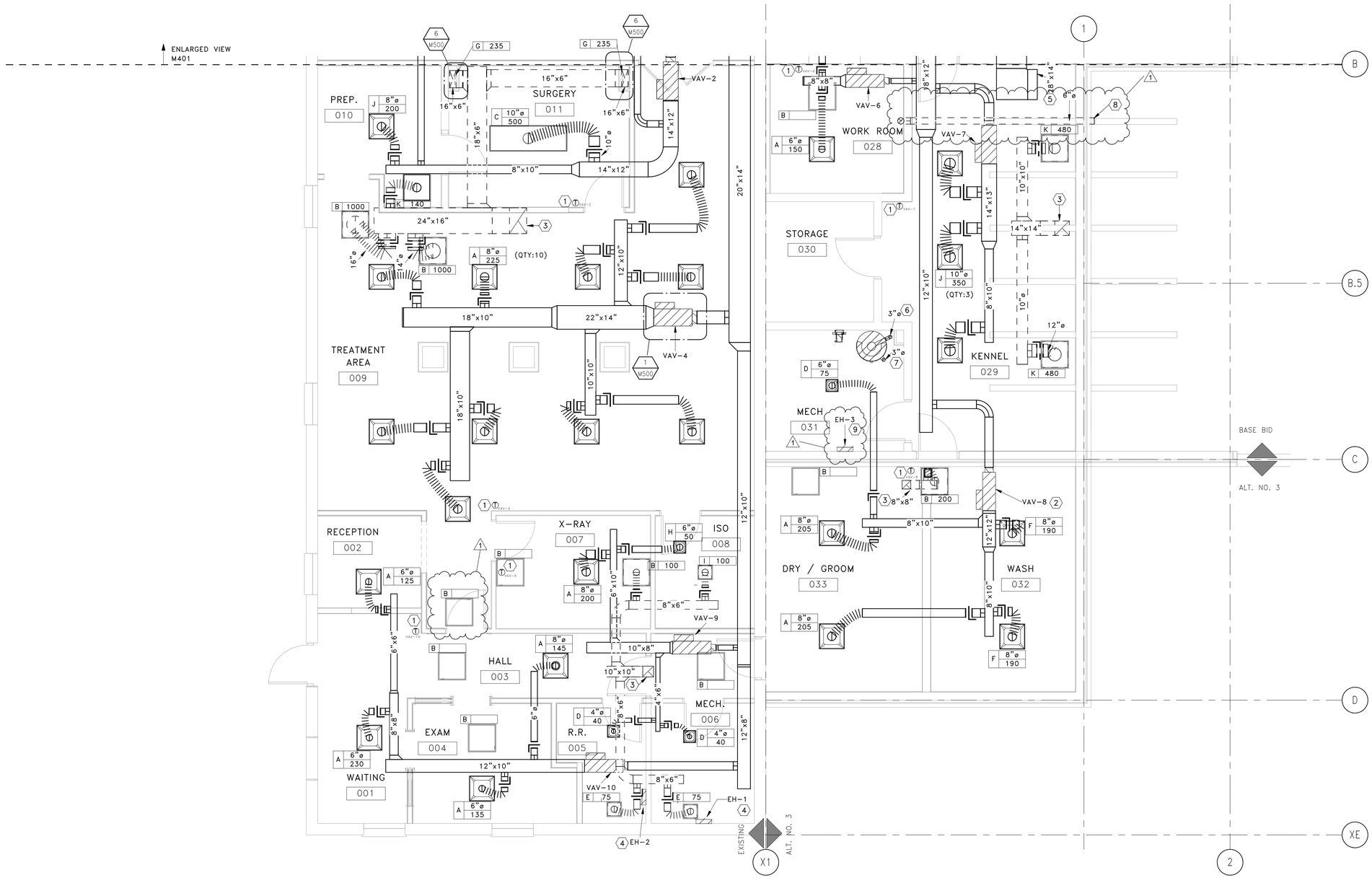
Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
MECHANICAL ROOF PLAN

JEFFREY D. HOSEK
REGISTERED
No. 17752
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	MDM
Drawn By:	MDM
Checked By:	JDH
Scale:	1/8" = 1'-0"
Plot Date:	02/23/22
Revision:	1

Drawing Number:
M111



CODED NOTES:

1. THERMOSTAT LOCATION. MOUNT 48" AFF.
2. VAV TO BE PROVIDED IF ALTERNATE ACCEPTED.
3. DUCT UP THROUGH ROOF TO EXHAUST FAN ABOVE.
4. SURFACE MOUNTED HEATER. MOUNT 18" AFF.
5. TRANSFER DUCT. PLACE 1/2"x 1/2" SCREEN OVER OPENINGS.
6. COMBUSTION INTAKE VENT, PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, PVC/CPVC. ROUTE THROUGH ROOF ABOVE.
7. EXHAUST VENT, PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, SCH 40 PVC. ROUTE THROUGH ROOF ABOVE.
8. ROUTE DRYER EXHAUST VENT ABOVE CEILING SPACE WITH RIGID METAL DUCT. CAP END WITH BACKDRAFT DAMPER AND WALL CAP.
9. IF ALTERNATE 3 NOT ACCEPTED, PROVIDE ELECTRIC HEATER AS SHOWN.

1 ENLARGED MECHANICAL PLAN SOUTH
M400 SCALE: 1/4" = 1'-0"

PICKERING ASSOCIATES
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Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
ENLARGED MECHANICAL PLAN

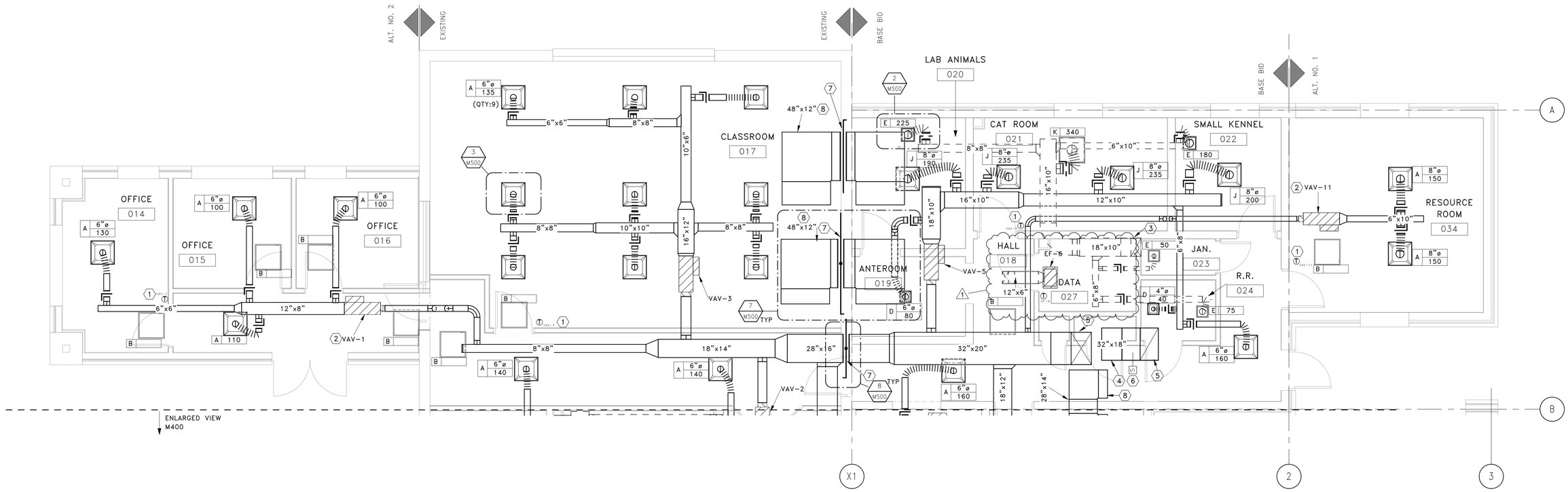
JEFFREY D. HOSEK
REGISTERED
No. 17752
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	MDM
Drawn By:	MDM
Checked By:	JDH
Scale:	1/4" = 1'-0"
Plot Date:	02/23/22
Revision:	1

Drawing Number:
M400

CODED NOTES:

1. THERMOSTAT LOCATION. MOUNT 48" AFF.
2. VAV TO BE PROVIDED IF ALTERNATE ACCEPTED.
3. DUCT UP THROUGH ROOF TO EXHAUST FAN ABOVE.
4. PLENUM RETURN. COVER DUCT OPENING WITH 1/2"x 1/2"SCREEN. PLAN
5. DUCT UP THROUGH ROOF TO RTU ABOVE.
6. INSTALL DUCT SMOKE DETECTOR. COORDINATE WITH E.C.
7. INSTALL 1.5HR FIRE DAMPER.
8. TRANSFER DUCT. PLACE 1/2"x 1/2" SCREEN OVER OPENINGS.



1 M401 ENLARGED MECHANICAL PLAN NORTH
SCALE: 1/4" = 1'-0"

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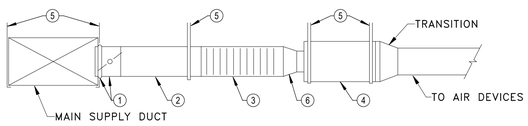
Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
ENLARGED MECHANICAL PLAN

JEFFREY D. HOSEK
REGISTERED
No. 17752
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

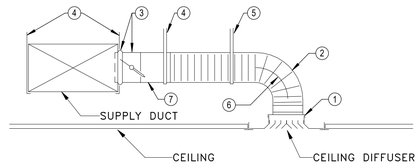
Project:	2201011
Designed By:	MDM
Drawn By:	MDM
Checked By:	JDH
Scale:	1/4" = 1'-0"
Plot Date:	02/23/22
Revision:	1

Drawing Number:
M401



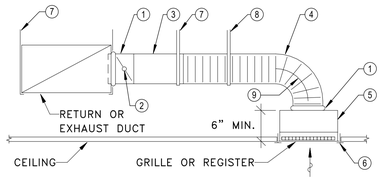
NOTES:
1. SPIN–IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN SUPPLY DUCT WITH INTERNAL INSULATION.MANUAL DAMPER. PLACE DAMPER SO THAT SHAFT IS IN HORIZONTAL.
2. ROUND SHEET METAL BRANCH DUCT.
3. INSULATED FLEXIBLE DUCT. 4 FT. MAXIMUM LENGTH. STRETCH FLEXIBLE DUCT TO 90% OF FULLY EXTENDED LENGTH.
4. AIR CONTROL TERMINAL UNIT.
5. STRAP HANGERS FOR DUCT OR UNIT. ATTACH TO STRUCTURE.
6. TRANSITION WHEN REQUIRED.

1 M500 / M400 — AIR TERMINAL UNIT DUCT CONNECTION
SCALE: NTS



NOTES:
1. SQUARE–TO–ROUND ADAPTOR IF DIFFUSER NECK IS SQUARE.
2. FLEXIBLE DUCT SAME DIAMETER AS DIFFUSER INLET, 4 FT. MAXIMUM LENGTH. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
3. SPIN–IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION.
4. DUCT STRAP HANGER. ATTACH TO STRUCTURE.
5. STRAP REQUIRED IF LENGTH OF FLEXIBLE DUCT IS LONGER THAN 4 FT.
6. MINIMUM CENTERLINE RADIUS EQUAL TO DUCT DIAMETER.
7. ROUND SHEETMETAL BRANCH DUCT.

3 M500 / M401 — SUPPLY DEVICE DUCT CONN.
SCALE: 12" = 1'–0"

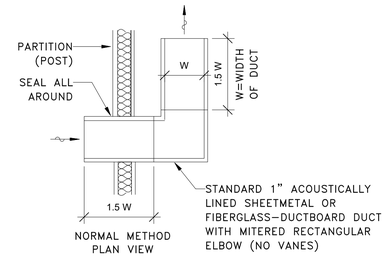


NOTES:
1. SPIN–IN TAP FITTING.
2. MANUAL DAMPER. PLACE DAMPER SO THAT SHAFT IS IN HORIZONTAL.
3. ROUND SHEET METAL BRANCH DUCT. REFER TO SIZING NOTE BELOW.
4. NON–INSULATED ROUND FLEXIBLE DUCT. REFER TO SIZING NOTE BELOW. 4 FT. MAXIMUM LENGTH. STRETCH DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
5. SHEET METAL PLENUM SAME SIZE AS GRILLE.
6. CEILING T–BAR SUPPORT ON FOUR SIDES BY CEILING CONTRACTOR.
7. DUCT STRAP HANGER. ATTACH TO STRUCTURE.
8. STRAP HANGER REQUIRED AT MID–LENGTH IF LENGTH OF FLEXIBLE DUCT EXCEEDS 4 FT.
9. MINIMUM CENTERLINE RADIUS EQUAL TO DUCT DIAMETER.

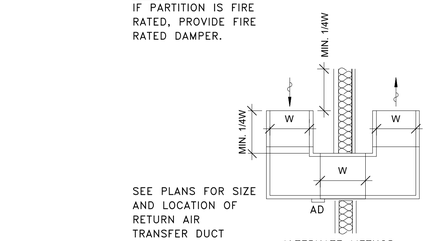
SIZING NOTES – BRANCH DUCT SIZES, UNLESS NOTED ON PLANS, ARE TO BE SIZED AS FOLLOWS:

100 CFM OR LESS	– 6" DIA.
101 TO 250 CFM	– 8" DIA.
251 TO 400 CFM	– 10" DIA.
401 TO 700 CFM	– 12" DIA.
701 TO 1000 CFM	– 14" DIA.

2 M500 / M401 — RET/EXH DEVICE DUCT CONN.
SCALE: NTS



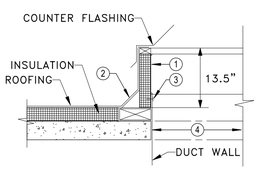
NOTE:
IF PARTITION IS FIRE RATED, PROVIDE FIRE RATED DAMPER.



7 M500 / M401 — TRANSFER DUCT
SCALE: NTS

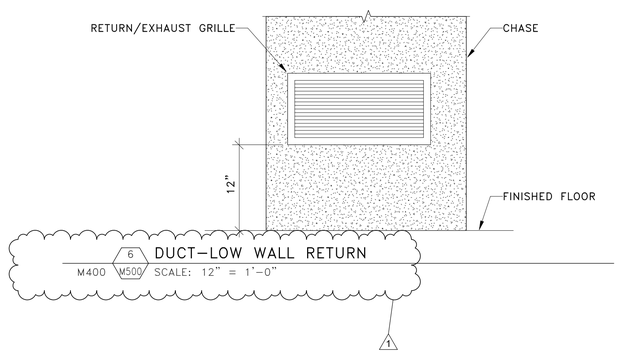
NOTES:
1. DRAIN PIPE SAME SIZE AS UNIT DRAIN PAN CONNECTION.
2. TEE WITH CLEANOUTS PLUG.
3. 4" MINIMUM – CENTERLINE TO CENTERLINE.
4. UNIT ROOF CURB. VERIFY REQUIRED HEIGHT FOR DRAIN PIPE AND TRAP INSTALLATION. PROVIDE CURB OF ADEQUATE HEIGHT TO ATTAIN REQUIRED DIMENSION.
5. SPLASH BLOCK

5 M500 / M111 — ROOFTOP DRAIN PIPING
SCALE: NTS

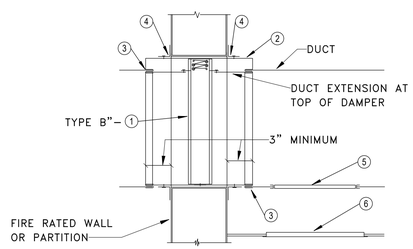


NOTES:
1. 13.5" HIGH INSULATED STEEL CURB.
2. PRESSURE TREATED RIGID WOOD BLOCK FRAME BY H.C. SAME THICKNESS ROOF INSULATION. BOLT TO ROOF DECK.
3. SHEET METAL SCREW.
4. METAL ROOF DECK OPENING FRAMED BY GENERAL CONTRACTOR.

4 M500 / M111 — FAN MOUNTING CURB
SCALE: NTS



6 M500 / M400 — DUCT–LOW WALL RETURN
SCALE: 12" = 1'–0"



FIRE DAMPER NOTES:
- FIRE DAMPER SHALL BE UL LABELED
- INSTALLATION OF FIRE DAMPER AND ACCESSORIES SHALL CONFORM TO NFPA 90A, SMACNA AND MANUFACTURER'S INSTRUCTIONS.
- DETAILS SHOWN INSTALLATION OF FIRE DAMPER IN WALL. DAMPER INSTALLATION IN FLOOR SIMILAR. REFER TO PALS FOR ACCESS LOCATION.

NOTES:
1. FIRE DAMPER, FOLDED BLADE CURTAIN TYPE, EXCEPT AS NOTED. VERTICAL MOUNT, GRAVITY DROP; HORIZONTAL MOUNT, SPRING LOADED TO CLOSE.
   A. TYPE "B" – BLADES STORED OUT OF AIR STREAM.
2. SHEET METAL WALL SLEEVE, SAME MATERIAL AS DUCT (EXCEPT GALVANIZED SHEET METAL FOR FIBERGLASS DUCT). SHEET METAL GAUGE PER SMACNA.
3. DUCT/SLEEVE CONNECTION, BREAKAWAY TYPE SHOWN. CONNECTION MAY BE RIGID TYPE IF ALLOWED BY CODE AUTHORITY.
4. RETAINING ANGE ALL FOUR SIDES, GAUGE PER SMACNA. 1" MINIMUM OVERLAP OF WALL OPENING. LONGER LEG MAY BE RQURED TO ATTAIN REQUIRED OVERLAP. BOLT, SCREW OR TACKWELD TO WALL SLEEVE. SPACING OF FASTENERS PER SMACNA.
5. DUCT ACCESS PANEL OR DOOR. REFER TO SPECIFICATION.
6. CEILING ACCESS PANEL IF CEILING IN NOT ACCESSIBLE.
7. 10 GAUGE WALL SLEEVE WITH 1/2" WIDE LEG (ALL FOR SIDES) ON END OPPOSITE DUCT CONNECTION TO OVERLAP WALL OPENING.
8. 14GAUGE RETAINER STRIP FASTENED TO UNDERSIDE OF FLOOR SLAB. ALL FOUR SIDES.
9. HIGH VELOCITY DUCT COUPLING.

8 M500 / M401 — FIRE DAMPER TYPE B
SCALE: NTS

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Rev.	Description	By	Date
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Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
MECHANICAL DETAILS

JEFFREY D. HOSEY
REGISTERED
No. 17752
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	MDM
Drawn By:	MDM
Checked By:	JDH
Scale:	NTS
Plot Date:	02/23/22
Revision:	1

Drawing Number:
M500

ROOFTOP COOLING–HEATING UNITS

UNIT NO.	SERVICE	CONFIGURATION	NOMINAL TONS	SUPPLY FAN CFM	SUPPLY FAN ESP/TSP	SUPPLY FAN MOTOR HP (EA)	SUPPLY FAN VFD	HEATING COIL GAS CFH	HEATING COIL CAPACITY	HEATING COIL EAT	HEATING COIL LAT	COOLING COIL TOTAL MBH	COOLING COIL SENSIBLE MBH	COOLING COIL EAT DB/WB	COOLING COIL LAT DB/WB	ELECTRICAL MCA	ELECTRICAL MOCP S/E	ELECTRICAL VOLTAGE/PHASE	OUTSIDE AIR	OA. ECONOMIZER	BARO. RELIEF	FILTER	REMARKS	OPERATING WEIGHT	BASIS OF DESIGN	MODEL
RTU–1	VET CLINIC	PACKAGED–GAS	25	9200	2.5/4.2	15	Yes	600	480	39	83	318	229	82/70	55/54.8	153	175	208/3	5080	Yes	Yes	2" MERV 13	1,2,3	4584	GREASEMASTER	GMRTU4

NOTES:
1. PROVIDE ROOF CURB, UNIT MOUNTED VFD, CONVENIENCE RECEPTACLE.
2. DOAS UNIT WITH HEATER, VAV WIRING PACKAGE, LOW AMBIENT COOLING CONTROLS.
3. PROVIDE UNIT CONTROLS PER SPECIFICATIONS. RETURN TO BE MODULATED BASED ON BUILDING PRESSURE.

TERMINAL UNITS

UNIT NO.	TYPE	INLET DIA.	CFM MAX.	CFM MIN.	REHEAT COIL INPUT (KW)	ELECTRIC VOLTAGE	ELECTRIC PHASE	ELECTRIC MCA	B.O.D.
VAV–1	VVR	6	440	220	2.8	208	3	11	PRICE
VAV–2	VVR	9	980	490	6.2	208	3	23	PRICE
VAV–3	VVR	10	1200	600	7.6	208	3	29	PRICE
VAV–4	VVR	12	2250	1125	14.2	208	3	54	PRICE
VAV–5	VVR	9	940	470	7.2	208	3	22	PRICE
VAV–6	VVR	5	310	155	2.0	208	3	8	PRICE
VAV–7	VVR	9	1050	525	6.6	208	3	25	PRICE
VAV–8	VVR	8	865	435	5.5	208	3	21	PRICE
VAV–9	VVR	5	330	165	2.1	208	3	8	PRICE
VAV–10	VVR	8	635	320	4.1	208	3	16	PRICE
VAV–11	VVR	5	300	150	2.0	208	3	8	PRICE

GENERAL NOTES:
- TYPES– "V.V.R."=VARIABLE VOLUME REHEAT,
- 0.25" S.P. MAX. PRESSURE DROP THRU UNIT & COIL AT MAX. CFM.
- REHEAT COIL CAPACITY BASED ON WINTER MIN. CFM, 55°F EAT & 180°F EWT.
- DDC UNITS HAVE AN ADDITIONAL 0.1 AMP, 24VAC DAMPER ACTUATOR

DUCT CONSTRUCTION, SEALING, & INSULATION

DUCT SYSTEM TYPE	SP. CONSTRUCTION	SEAL CLASS	LEAKAGE CLASS	LINED/INSULATED	REMARKS
SUPPLY DUCTWORK (D.S. VAV)	+1"	B	12	INSULATED	
RETURN DUCTWORK	–2"	B	12	LINED/INSULATED	
EXHAUST DUCTWORK	–1"	B	12	INSULATED	1
SUPPLY DUCTWORK (U.S. VAV)	+3"	B	12	INSULATED	

GENERAL NOTES:
- REFER TO SPECIFICATIONS FOR DUCT CONSTRUCTION OPTIONS: SHEET METAL DUCT; INTERIOR LINING; EXTERIOR INSULATION; FIBERGLASS DUCTBOARD; ETC.
- PROVIDE *(ALUMINUM/PVC)* JACKETING WITHIN MECHANICAL ROOM.
- INSULATED FLEXIBLE DUCTWORK DOES NOT NEED ADDITIONAL INSULATION.

REMARKS:
1. INSULATE DUCT WITHIN 10' OF EXTERIOR WALLS.

AIR DISTRIBUTION DEVICES

SYMBOL	DESCRIPTION	TYPE MOUNTING LAY–IN	TYPE MOUNTING SURFACE	MATERIAL STEEL	MATERIAL ALUM.	MATERIAL S.S.	FINISH O.W.B.E.	FINISH E.C.L.	FINISH OTHER	CATALOG NUMBER PRICE	ACCESSORIES	REMARKS
A	SUPPLY DIFFUSER	X		X			X			SCD	OBD	
B	RETURN/EXHAUST GRILLE	X			X		X		X	85	OBD	ADD RAC FOR SOUND ON PLENUM DEVICES
C	SUPPLY GRILLE		X		X				X	LFD	OBD	24"X24"
D	SUPPLY DIFFUSER	X		X			X			SCD	OBD	12"X12"
E	RETURN/EXHAUST GRILLE	X			X		X			85	OBD	12"X12
F	SUPPLY GRILLE	X			X		X			ASCD	OBD	ALUMINUM
G	EXHAUST GRILLE		X			X	x			730H	OBD	STAINLESS STEEL
H	SUPPLY DIFFUSER		X	X			X			SCD	OBD	12"X12"
I	RETURN/EXHAUST GRILLE		X		X					85	OBD	12"X12
J	SUPPLY DIFFUSER		X	X			X			SCD	OBD	
K	RETURN/EXHAUST GRILLE		X		X		X			85	OBD	

GENERAL NOTES:
- REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS.
- ALL AY–IN AIR DEVICES SHALL FIT IN 24"X24" LAY–IN CEILING SYSTEM.
- FINISH KEY: "O.W.B.E"=OFF WHITE BAKED ENAMEL, "E.C.L"=ETCHED CLEAR LACQUER OR ANODIZED.
- SUPPLY AIR DIFFUSERS SHALL BE 4–WAY BLOW UNLESS NOTED OTHERWISE ON DWGS.
- PROVIDE AUX. FRAMES FOR AIR DEVICES IN PLASTER, GYPSUM BOARD, GLAZED TILE OR CERAMIC TILE SURFACES.

FAN SCHEDULE

UNIT NO.	DESCRIPTION	SERVICE	CFM	E.S.P.	SONES	ELECTRICAL HP(W)	ELECTRICAL VOLT	ELECTRICAL PHASE	APPROX ROOF/WALL OPENING	B.O.D.	REMARKS
EF–1	DOWNBLAST	VARIOUS	870	.25	8.9	1/4	115	1	15.5"X15.5"	COOK ACE–D	1,2
EF–2	DOWNBLAST	KENNEL	960	.25	6.4	1/4	115	1	15.5"X15.5"	COOK ACE–D	1,2
EF–3	DOWNBLAST	WASH/DRY/GROOM	200	.25	3.3	1/8	115	1	13.5"X13.5"	COOK ACE–D	1,2
EF–4	DOWNBLAST	VARIOUS	350	.25	5.7	1/8	115	1	13.5"X13.5"	COOK ACE–D	1,2
EF–5	DOWNBLAST	VARIOUS	2600	.25	15.9	3/4	115	1	19.5"X19.5"	COOK ACE–D	1,2
EF–6	CEILING CABINET	IT ROOM	300	.25	5.5	(119)	115	1	14"X21"	COOK GC	3

GENERAL NOTES:
- SONES VALUES BASED ON A.M.C.A. BULLETINS 300 & 301 MEASURED AT 5 FT. FOR P.R.V.'S.
- MOTOR HORSEPOWERS LISTED ARE TO BE CONSIDERED MINIMUM.
- ROOF & WALL OPENINGS ARE APPROXIMATE. VERIFY SIZE & COORDINATE WITH G.C.
- STEEL FRAMING AROUND ROOF OPENING WHERE REQUIRED FOR DECK SUPPORT AND WALL LINTELS FOR WALL OPENING BY G.C.

REMARKS:
1. PROVIDE ROOF CURB, PROVIDE DISCONNECT, GRAVITY BACKDRAFT DAMPERS, SPEED CONTROLLER, EPOXY POWDER COAT, BIRDSCREEN.
2. FAN TO BE OPERATED BY SWITCH.
3. FAN TO BE OPERATED BY REVERSE ACTING THERMOSTAT. WHEN TEMPERATURE REACHES 74 DEGREES, FAN ACTIVATES. PROVIDE DISCONNECT, ISOLATORS, GRAVITY BACKDRAFT DAMPER, ROOF CAP, BIRDSCREEN, AND SPEED CONTROLLER.

UNIT HEATERS

UNIT NO.	SERVICE	CONFIGURATION	MOUNTING	CFM	HEATING SIZE(KW)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL MCA	DIMENSIONS HEIGHT	DIMENSIONS DEPTH	DIMENSIONS WIDTH	B.O.D.	REMARKS
EH–1	MECH 006	ELECTRIC	SURFACE	65	2	208	1	9.6	12.125"	4"	10.625"	QMARK/CWH	1
EH–2	RR 005	ELECTRIC	SURFACE	65	2	208	1	9.6	12.125"	4"	10.625"	QMARK/CWH	1
EH–3	MECH 030	ELECTRIC	SURFACE	65	2	208	1	9.6	12.125"	4"	10.625"	QMARK/CWH	1

GENERAL NOTES:
- VERIFY/COORDINATE CABINET DIMENSIONS & MOUNTING REQUIREMENTS WITH ARCHITECTURAL DWGS PRIOR TO ORDERING.

REMARKS.
1. PROVIDE FACTORY MOUNTED THERMOSTATS, PROVIDE MOUNTING BRACKETS, FACTORY MOUNTED DISCONNECT.

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Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
MECHANICAL SCHEDULES

JEFFREY D. HOSEY
REGISTERED
No. 17752
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	MDM
Drawn By:	MDM
Checked By:	JDH
Scale:	NTS
Plot Date:	02/23/22
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