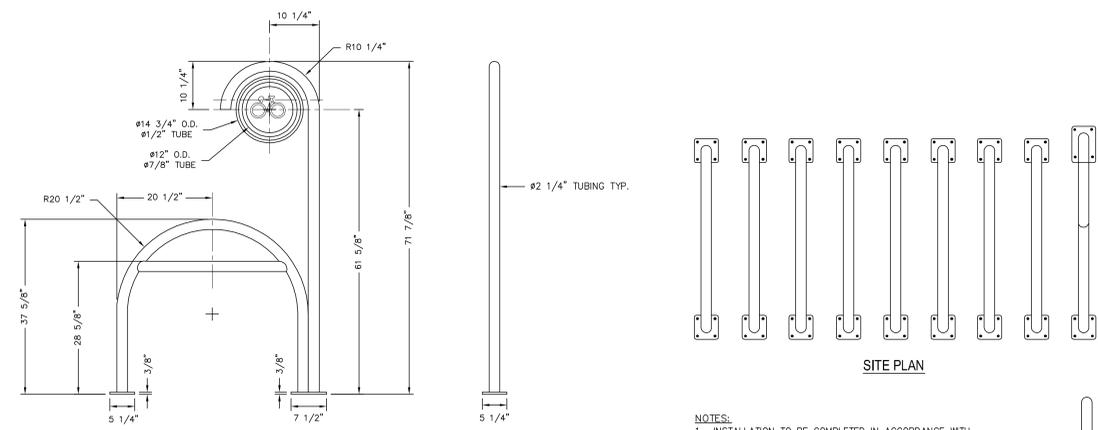


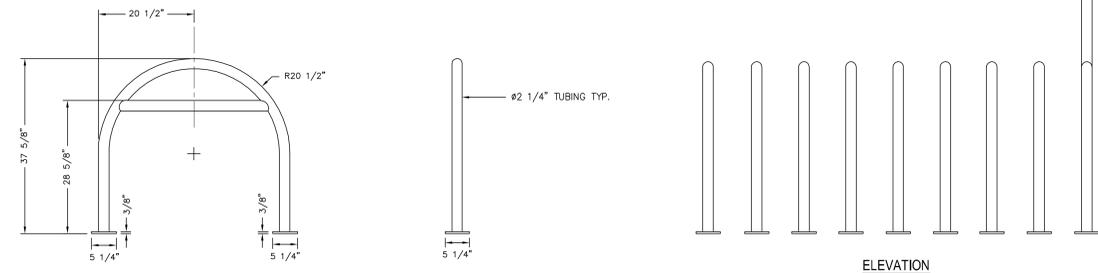
STORRS CENTER
 PHASE 1A AND 1B
 STORRS ROAD AND DOG LANE
 MANSFIELD, CONNECTICUT

DESIGNED: G.F.
 DRAWN: E.L.Z.
 CHECKED: []
 APPROVED: []
 SCALE: AS SHOWN
 PROJECT NO.: 03C667-01
 DATE: 01/13/11
 CAD FILE: D:\03C667\01.dwg
 TITLE: DETAILS SHEET
 SHEET NO.: DN-1



ELEVATION DECORATIVE END ASSEMBLY

END VIEW

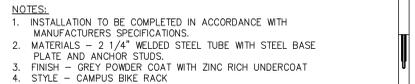


ELEVATION RACKING ASSEMBLY

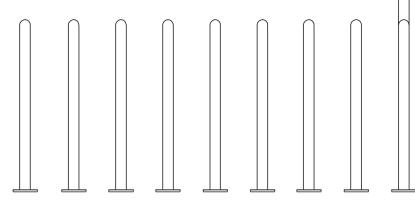
END VIEW

BICYCLE RACK

N.T.S.

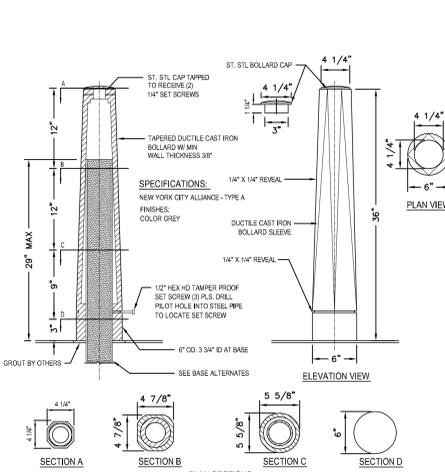


SITE PLAN



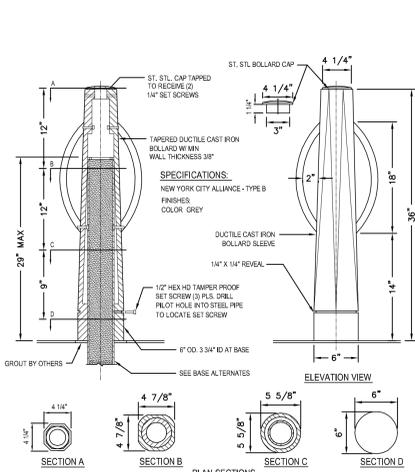
ELEVATION

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. MATERIALS - 2 1/4" WELDED STEEL TUBE WITH STEEL BASE PLATE AND ANCHOR STUDS.
3. FINISH - GREY POWDER COAT WITH ZINC RICH UNDERCOAT
4. STYLE - CAMPUS BIKE RACK



BOLLARD - TYPE A

N.T.S.



BOLLARD - TYPE B

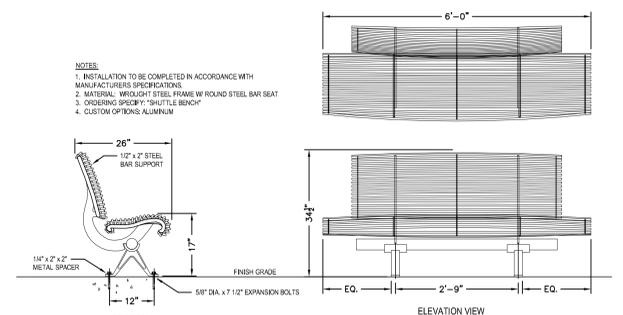
N.T.S.

SECTION A SECTION B SECTION C SECTION D
PLAN SECTIONS

SECTION A SECTION B SECTION C SECTION D
PLAN SECTIONS

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.

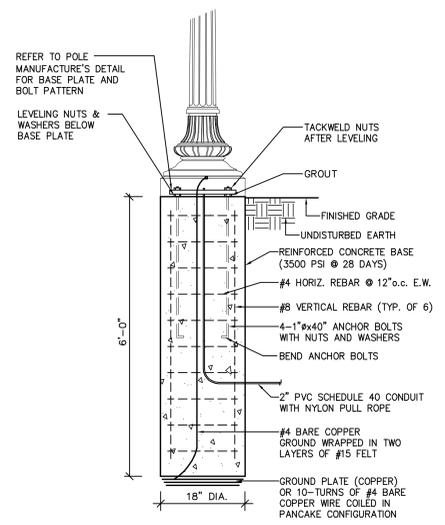
NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.



BENCH

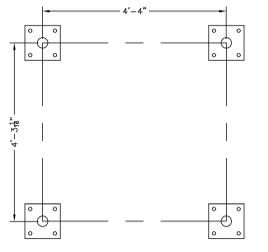
N.T.S.

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. MATERIAL - WROUGHT STEEL FRAME W/ ROUND STEEL BAR SEAT
3. COATING GROUP: "DUAL-TILE BENCH"
4. CUSTOM OPTIONS: ALUMINUM



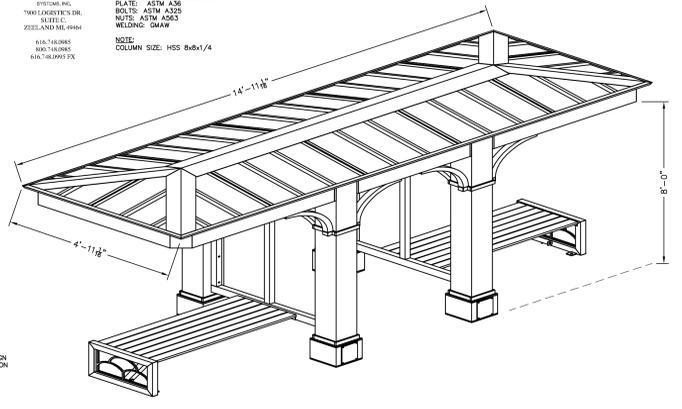
DECORATIVE LIGHT BASE

REFER TO POLE MANUFACTURER'S DETAIL FOR BASE PLATE AND BOLT PATTERN
LEVELING NUTS & WASHERS BELOW BASE PLATE
TACKWELD NUTS AFTER LEVELING
GROUT
FINISHED GRADE
UNDISTURBED EARTH
REINFORCED CONCRETE BASE (3500 PSI @ 28 DAYS)
#4 HORIZ. REBAR @ 12" O.C. E.W.
#8 VERTICAL REBAR (TYP. OF 6)
4-1" x 40" ANCHOR BOLTS WITH NUTS AND WASHERS
BEND ANCHOR BOLTS
2" PVC SCHEDULE 40 CONDUIT WITH NYLON PULL ROPE
#4 BARE COPPER GROUND WRAPPED IN TWO LAYERS OF #15 FELT
GROUND PLATE (COPPER) OR 10-TURNS OF #4 BARE COPPER WIRE COILED IN PANCAKE CONFIGURATION



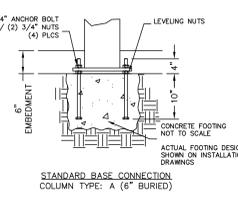
ICON
Shelher Systems Inc.
www.iconshelher.com

ALL STRUCTURAL COMPONENTS WILL BE:
TUBE: ASTM A500 GRADE B
PLATE: ASTM A36
BOLTS: ASTM A325
NUTS: ASTM A325
WELDING: SMAW
NOTE:
COLUMN SIZE: HSS 8x8x1/4

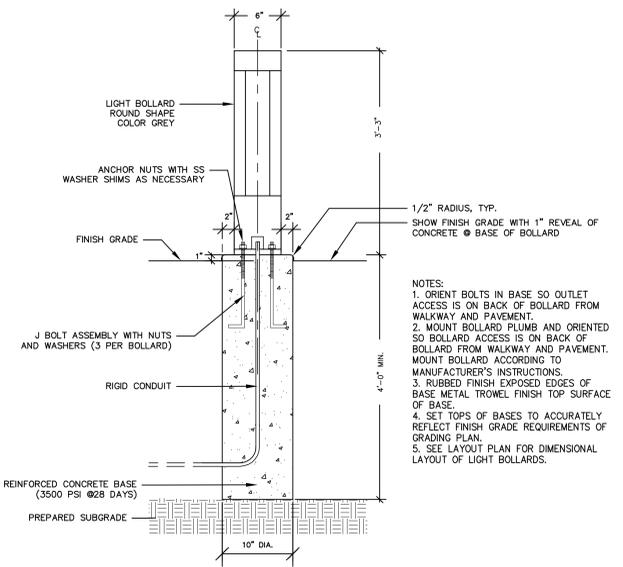


BUS SHELTER

N.T.S.

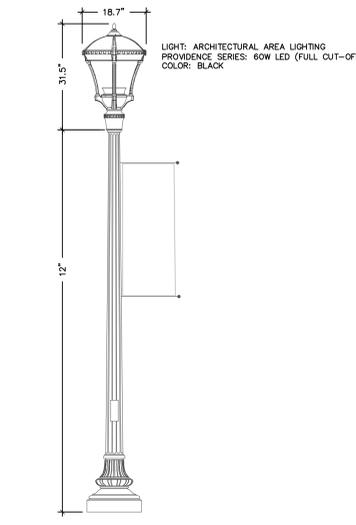


STANDARD BASE CONNECTION
COLUMN TYPE: A (6" BURIED)

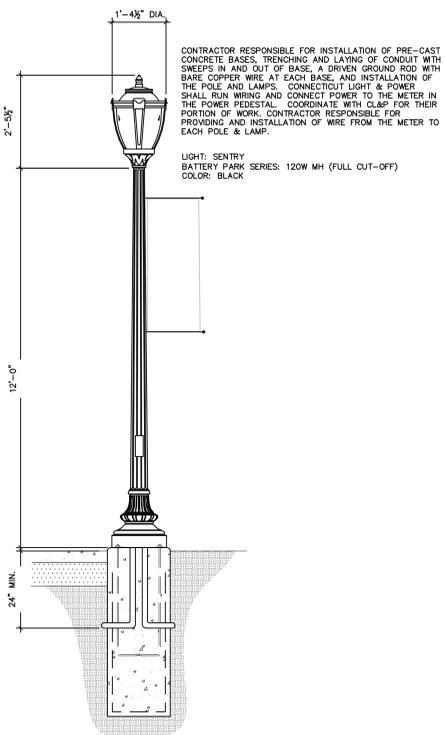


BOLLARD LIGHT AND BASE

1/2" RADIUS, TYP.
SHOW FINISH GRADE WITH 1" REVEAL OF CONCRETE @ BASE OF BOLLARD
ANCHOR NUTS WITH SS WASHER SHIMS AS NECESSARY
FINISH GRADE
J BOLT ASSEMBLY WITH NUTS AND WASHERS (3 PER BOLLARD)
RIGID CONDUIT
REINFORCED CONCRETE BASE (3500 PSI @ 28 DAYS)
PREPARED SUBGRADE
10" DIA.
NOTES:
1. ORIENT BOLTS IN BASE SO OUTLET ACCESS IS ON BACK OF BOLLARD FROM WALKWAY AND PAVEMENT.
2. MOUNT BOLLARD PLUMB AND ORIENTED SO BOLLARD ACCESS IS ON BACK OF BOLLARD FROM WALKWAY AND PAVEMENT. MOUNT BOLLARD ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
3. RUBBED FINISH EXPOSED EDGES OF BASE METAL TROWEL FINISH TOP SURFACE OF BASE.
4. SET TOPS OF BASES TO ACCURATELY REFLECT FINISH GRADE REQUIREMENTS OF GRADING PLAN.
5. SEE LAYOUT PLAN FOR DIMENSIONAL LAYOUT OF LIGHT BOLLARDS.

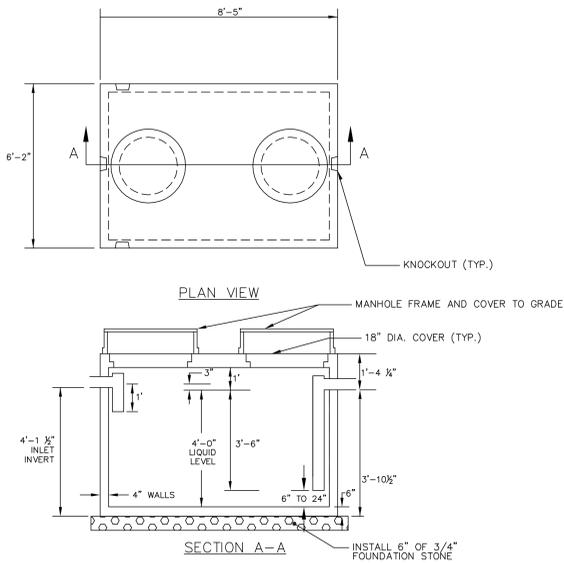


DECORATIVE STREET LIGHT (ADD ALTERNATE #1)



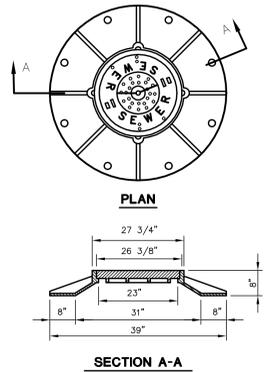
DECORATIVE STREET LIGHT

CONTRACTOR RESPONSIBLE FOR INSTALLATION OF PRE-CAST CONCRETE BASES, TRENCHING AND LAYING OF CONDUIT WITH SWEEPS IN AND OUT OF BASE. A DRIVEN GROUND ROD WITH BARE COPPER WIRE AT EACH BASE, AND INSTALLATION OF THE POLE AND LAMP. CONNECTICUT LIGHT & POWER SHALL RUN WIRING AND CONNECT POWER TO THE METER IN THE POWER PEDESTAL. COORDINATE WITH CL&P FOR THEIR PORTION OF WORK. CONTRACTOR RESPONSIBLE FOR PROVIDING AND INSTALLATION OF WIRE FROM THE METER TO EACH POLE & LAMP.
LIGHT: SENTRY BATTERY PARK SERIES: 120W MH (FULL CUT-OFF)
COLOR: BLACK

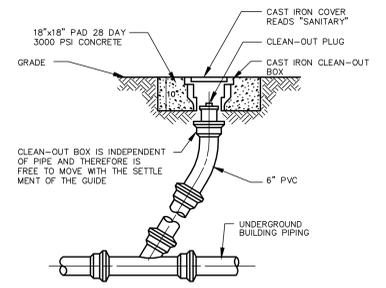


1,000 HS-20 GALLON GREASE TRAP
N.T.S.

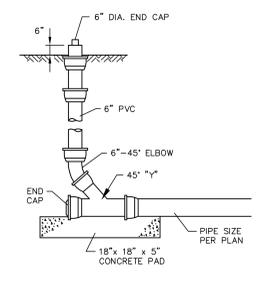
- NOTES:
- TANK DESIGN SPECIFICATIONS SHALL CONFORM TO LATEST ASTM DESIGNATION C913.
 - JOINT SEALANT SHALL BE BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO THE LATEST AASHTO SPECIFICATION M-198.
 - PIPE INLET AND OUTLET LOCATIONS TO HAVE POLYLOK II PIPE SEALS.
 - INLET AND OUTLET LOCATIONS ARE TYPICAL, SEE SITE PLAN FOR LOCATIONS.
 - THE TANK EXTERIOR SHALL BE COATED WITH BAY OIL, "EBONY".
 - REINFORCING STEEL DEFORMED BARS SHALL CONFORM TO THE LATEST ASTM SPECIFICATION A615.
 - CONCRETE COMPRESSIVE STRENGTH SHALL BE 5000 PSI AT 28 DAYS.
 - BASE SECTION SHALL BE MONOLITHIC.
 - INSTALL ACCORDING TO MANUFACTURERS INSTRUCTIONS.
 - THE INTERIOR OF THE SEPARATOR SHALL BE COATED WITH AN EPOXY SEALANT RESISTANT TO GASOLINE, OIL, AND SOLVENTS.
 - THE EXTERIOR OF THE SEPARATOR, INCLUDING THE EXTERIOR TOP AND BOTTOM AND EXTENSION TO GRADE MANHOLES, SHALL BE COATED WITH A WATERPROOF SEALANT.
 - ALL STRUCTURAL SEAMS SHALL BE LOCATED ABOVE THE STATIC LIQUID LEVEL AND GROUTED WITH NON-SHRINKING CEMENT AND COATED WITH A WATERPROOF SEALANT.
 - VOIDS BETWEEN SEPARATOR WALLS AND INLET AND OUTLET PIPING SHALL BE GROUTED WITH NON-SHRINKING CEMENT AND COATED WITH A WATERPROOF SEALANT.
 - THE MANHOLE EXTENSIONS SHALL HAVE STEEL FRAMES AND MANHOLE COVERS. THE MANHOLES, EXTENSIONS, AND ACCESS TO THE SEPARATOR SHALL BE AT LEAST 18 INCHES IN DIAMETER.
 - THE OUTLET PIPING SHALL UTILIZE A TEE-PIPE ON THE INTERIOR OF THE SEPARATOR. THE TEE-PIPE SHALL BE EQUIPPED WITH A STAND PIPE RISER EXTENDING UP THE EXTENSION TO GRADE MORE THAN 3 INCHES ABOVE THE STATIC LIQUID LEVEL, BUT NO CLOSER THAN 8 INCHES FROM THE MANHOLE COVER. THE TEE-PIPE SHALL EXTEND TO WITHIN 6 TO 24 INCHES FROM THE BOTTOM OF THE SEPARATOR.



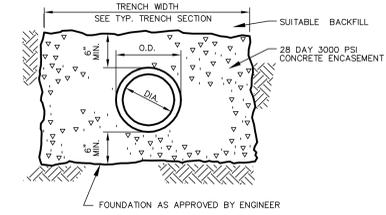
STANDARD MANHOLE FRAME AND COVER
N.T.S. BLS-002



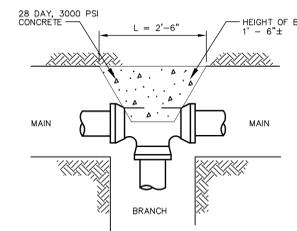
CLEANOUT DETAIL IN PAVED AREAS
N.T.S. BLS-008



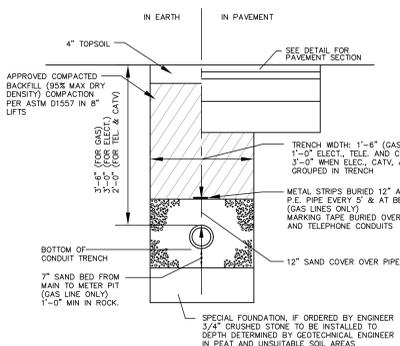
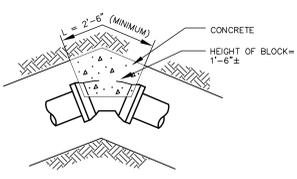
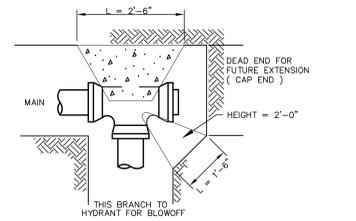
CLEANOUT DETAIL IN LANDSCAPED AREA
N.T.S. BLS-007



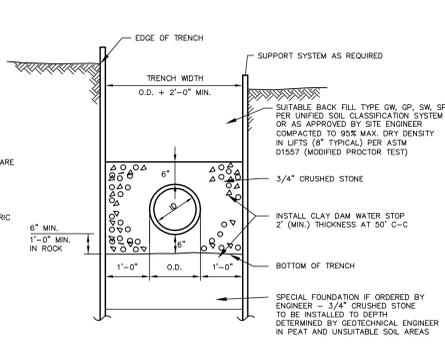
CONCRETE PROTECTION FOR PIPING
N.T.S. BLS-011



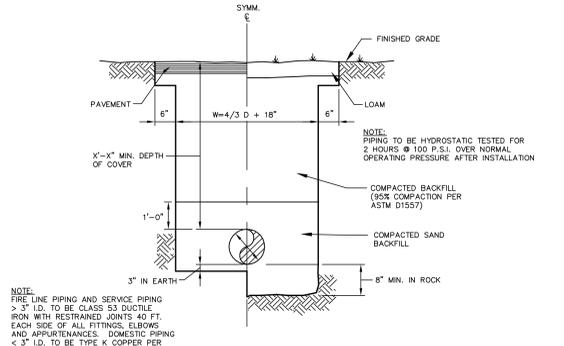
THRUST BLOCKS FOR WATER LINES
N.T.S. BLWD-001



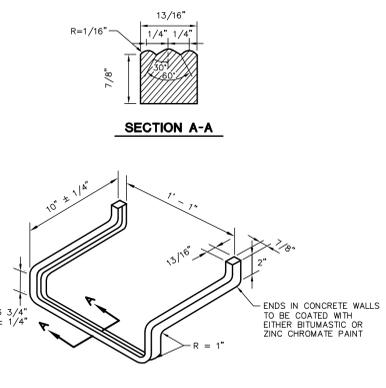
ELECTRICAL, TELEPHONE AND GAS TRENCH DETAIL
N.T.S. BLU-001



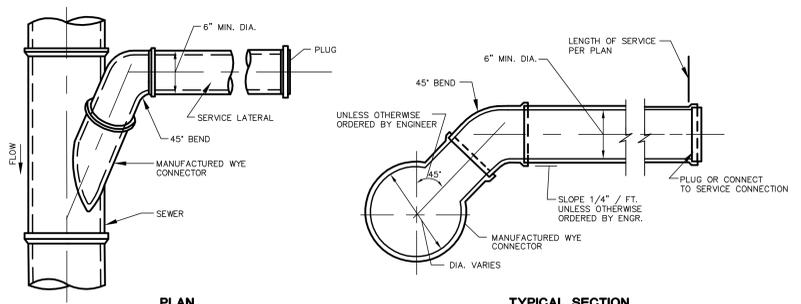
TYPICAL SANITARY SEWER TRENCH SECTION
N.T.S. BLS-010



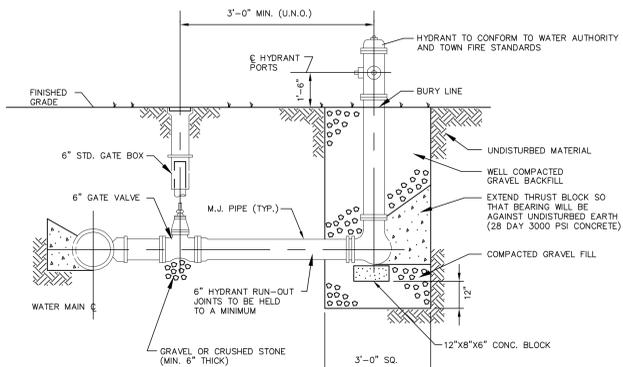
TYPICAL WATER MAIN AND SERVICE TRENCH DETAIL
N.T.S. BLWD-005



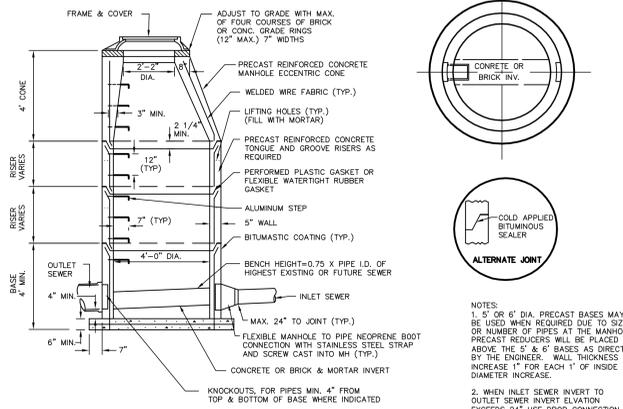
STANDARD MANHOLE STEP
N.T.S. BLS-005



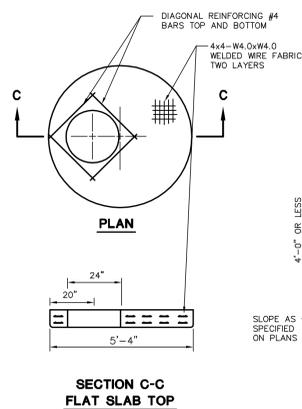
STANDARD SERVICE LATERAL CONNECTION
N.T.S. BLS-003



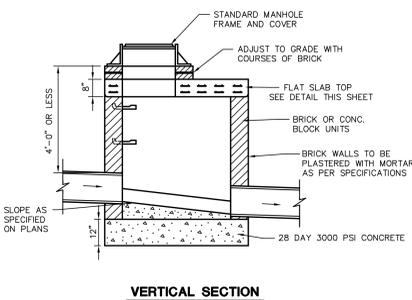
HYDRANT DETAIL WITH GATE BOX
N.T.S. BLWD-003



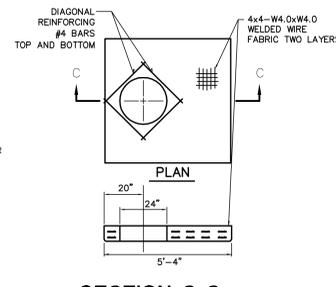
PRECAST SANITARY MANHOLE
N.T.S. BLS-001



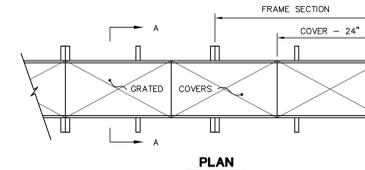
STANDARD SHALLOW SANITARY MANHOLE
 N.T.S. BLS-004



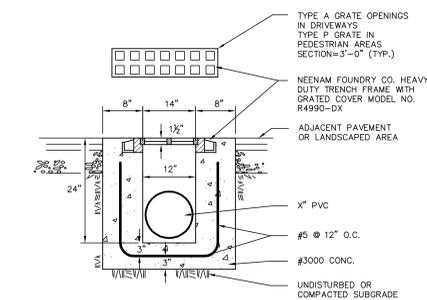
VERTICAL SECTION



SECTION C-C FLAT SLAB TOP
 N.T.S.

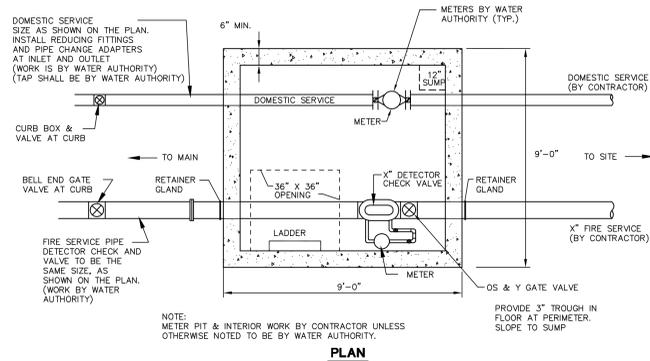


PLAN

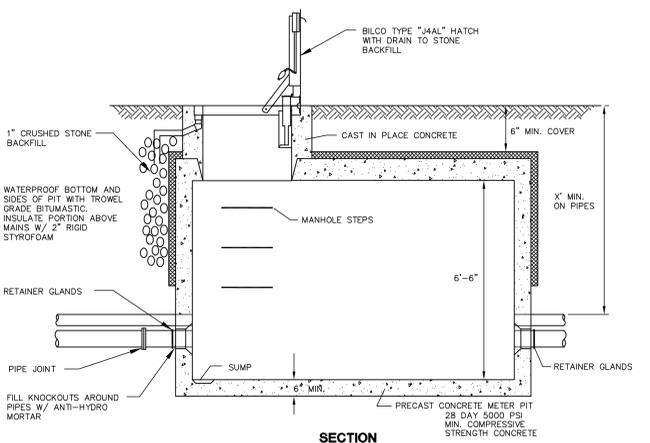


SECTION A-A

TRENCH DRAIN
 N.T.S. BLD-007

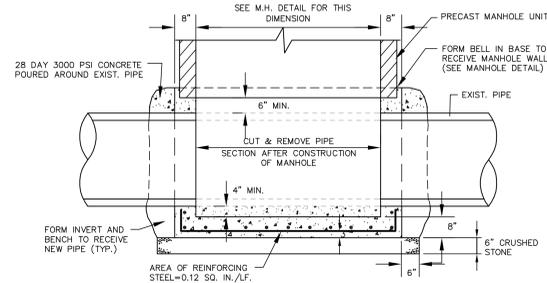


PLAN

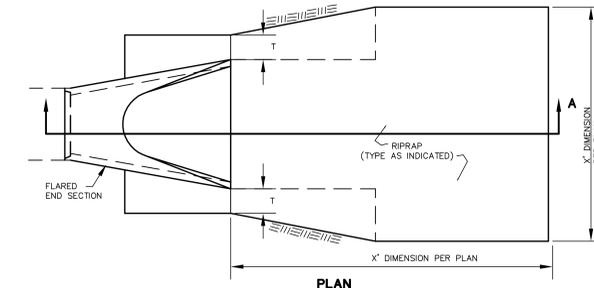


SECTION

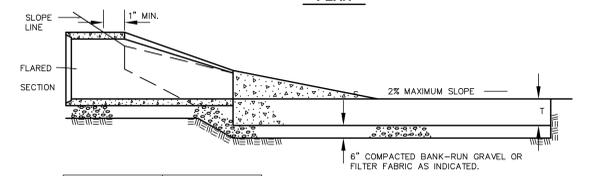
METER PIT
 N.T.S. BLW-004



NEW MANHOLE OVER EXISTING PIPE
 N.T.S. BLS-009



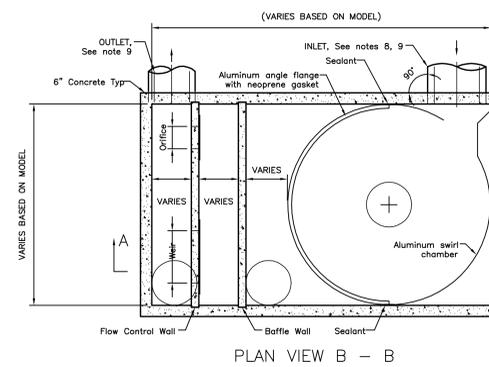
PLAN



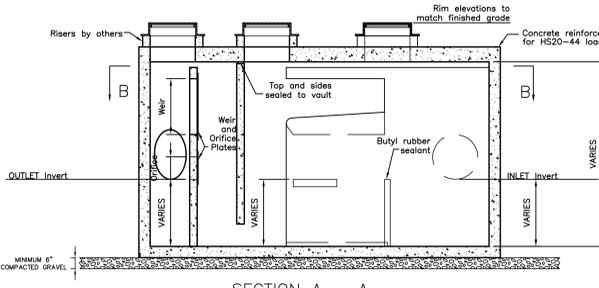
SECTION A-A

RIPRAP TYPE	**T** (INCHES)
INTERMEDIATE	18
MODIFIED	12

RIPRAP AT FLARED SECTION
 N.T.S. CTD-010



PLAN VIEW B - B



SECTION A - A

NOTES:
 1. Stormwater Treatment System (SWTS) shall have:
 Peak treatment capacity: Varies
 Sediment storage: Varies
 Sediment chamber dia: Varies
 2. SWTS shall be contained in one rectangular structure
 3. SWTS shall remove 80% of annual TSS loading
 4. SWTS shall retain floatables and trapped sediment up to and including peak treatment capacity
 5. SWTS inverts in and out shall be at the same elevation
 6. SWTS shall not be compromised by effects of downstream behavior
 7. SWTS shall have no internal components that obstruct maintenance access
 8. Inlet pipe must be perpendicular to the structure
 9. Pipe orientation may vary; see site plan for site and location
 10. Purchaser shall not be responsible for assembly of unit
 11. Manhole frame and perforated covers supplied with system, not installed
 12. Purchaser to prepare excavation and provide lifting equipment
 13. Contact Vortechs (207) 878-3662 Ext. for ordering information

DESIGN NOTES:
 A) For in-line Vortechs Systems without a bypass, sizing criteria is based on providing one square foot of grit chamber surface area for each 100 gpm of peak design storm flow rate (e.g., 10-year storm).
 B) Sediment storage volume assumes a three foot sump.
 C) Construction details may vary depending on the specific application. Any alterations to the sizing chart specifications will appear on Vortechs dimensional shop drawings. Please call Vortechs for the weight of the specific Vortechs system if needed.

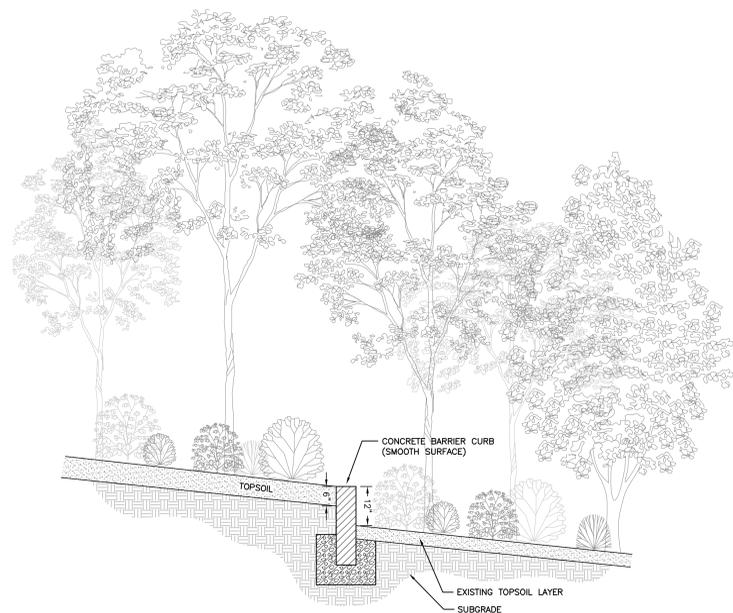
VORTECHS STORMWATER TREATMENT SYSTEM SIZING CHART

VORTECHS MODEL	GRIT CHAMBER DIA. / AREA FT./FT. ²	PEAK DESIGN FLOW	SEDIMENT STORAGE AREA	APPROX. SIZE L x W
1000	3/7	1.6	.75	9 x 3
2000	4/13	2.8	1.25	10 x 4
3000	5/20	4.5	1.75	11 x 5
4000	6/28	6.0	2.0	12 x 6
5000	7/38	8.5	3.25	13 x 7
7000	8/50	11.0	4.0	14 x 8
9000	9/64	14.0	4.75	15 x 9
11000	10/79	17.5	5.5	16 x 10
16000	12/113	25.0	7.0	18 x 12

TYPICAL GROSS PARTICLE SEPARATOR STORMWATER TREATMENT SYSTEM VORTECHS™ MODEL - 5000
 SCALE: N.T.S. U.S. PATENT NO. 5,759,415

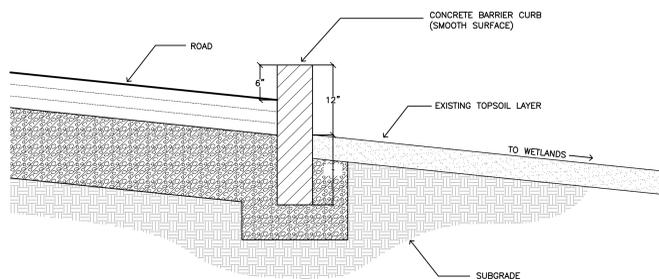
**STORRS CENTER
 PHASE 1A AND 1B
 STORRS ROAD AND DOG LANE
 MANSFIELD, CONNECTICUT**

Revisions:
 No. Date Desc.
 Designed G.F.
 Drawn E.L.Z.
 Checked
 Approved
 Scale AS SHOWN
 Project No. 03C667-Q
 Date 01/13/11
 CAD File: D:\03C667\001.dwg
 Title
 DETAILS SHEET
 Sheet No.
DN-6



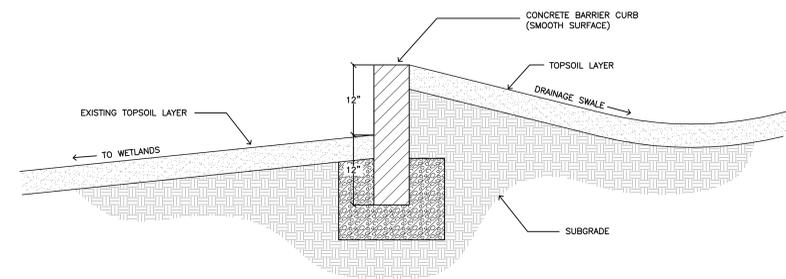
BARRIER CURB IN WOODED AREAS (TYPICAL)

N.T.S.



BARRIER CURB AT ROADWAY EDGE

N.T.S.

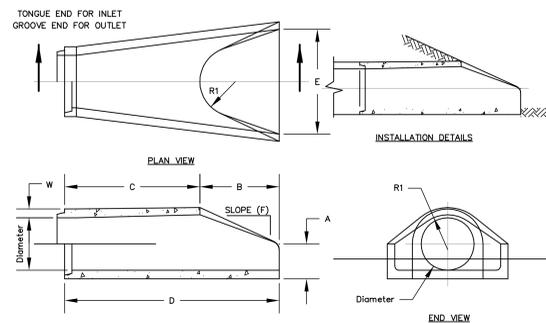


BARRIER CURB AT DRAINAGE SWALE

N.T.S.

BARRIER CURB (CRITTER CURB)

N.T.S.



SECTION AT CENTERLINE (PROFILE VIEW)

Diameter	Dimensions						
	A	B	C	D	E	F	R1
12"ø	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	3 : 1	9"
15"ø	6"	2'-3"	3'-10"	6'-11"	2'-6"	3 : 1	11"
18"ø	9"	2'-3"	3'-10"	6'-11"	3'-0"	3 : 1	12"
24"ø	10"	3'-8"	2'-6"	6'-2"	4'-0"	3 : 1	14"
30"ø	12"	4'-6"	1'-8"	6'-2"	5'-0"	3 : 1	15"
36"ø	15"	5'-3"	2'-11"	8'-2"	6'-0"	3 : 1	20"
42"ø	21"	5'-3"	2'-11"	8'-2"	8'-6"	3 : 1	22"

NOTES:

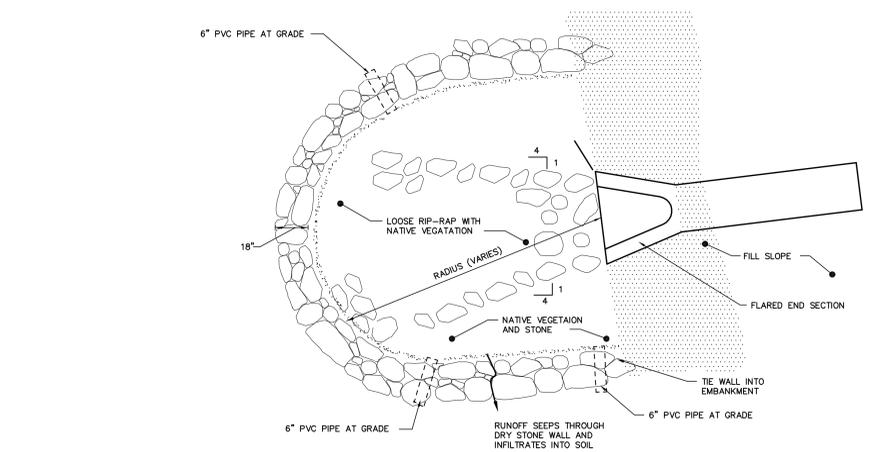
1. Produced to ASTM Specifications.
2. This drawing is not intended to show reinforcement design. Either as to placement or steel area. Actual project specifications or current ASTM will govern.
3. Consult Hydro Conduit Corp. local representative for further details not listed on this drawing.

TULSA PIPE
3200 North 129th East Avenue
Tulsa, Oklahoma 74116
P.O. Box 581524
Tulsa, Oklahoma 74158-1524
(918) 438-0230

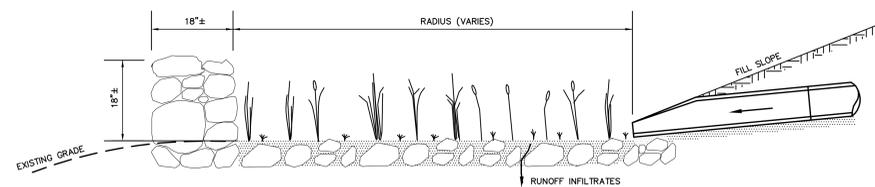
CR 170
35
ISSUED 12/93

FLARED END SECTION DETAILS
(WITH PRECAST STD. BASE AND CUSTOMER SPECIFIED OPENING)
FLAT TOP ECCENTRIC (CONCENTRIC ALSO AVAILABLE)

N.T.S. ZDD-062



PLAN



FOREBAY DETAIL

N.T.S. ZDD-093

STORRS CENTER
PHASE 1A AND 1B
STORRS ROAD AND DOG LANE
MANSFIELD, CONNECTICUT

REVISIONS	No.	Date	Desc.

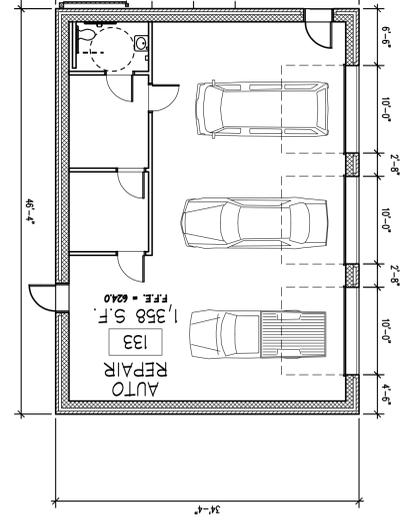
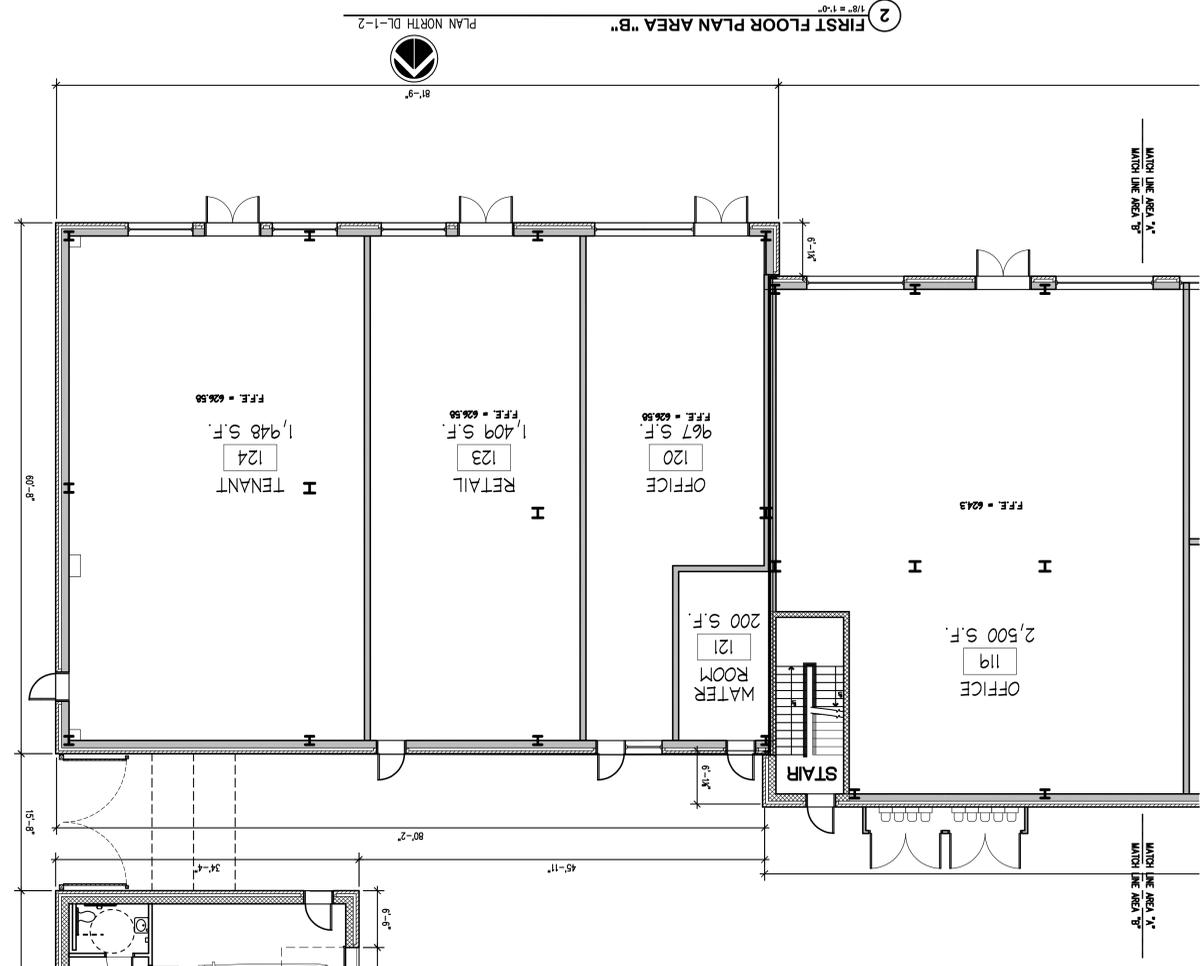
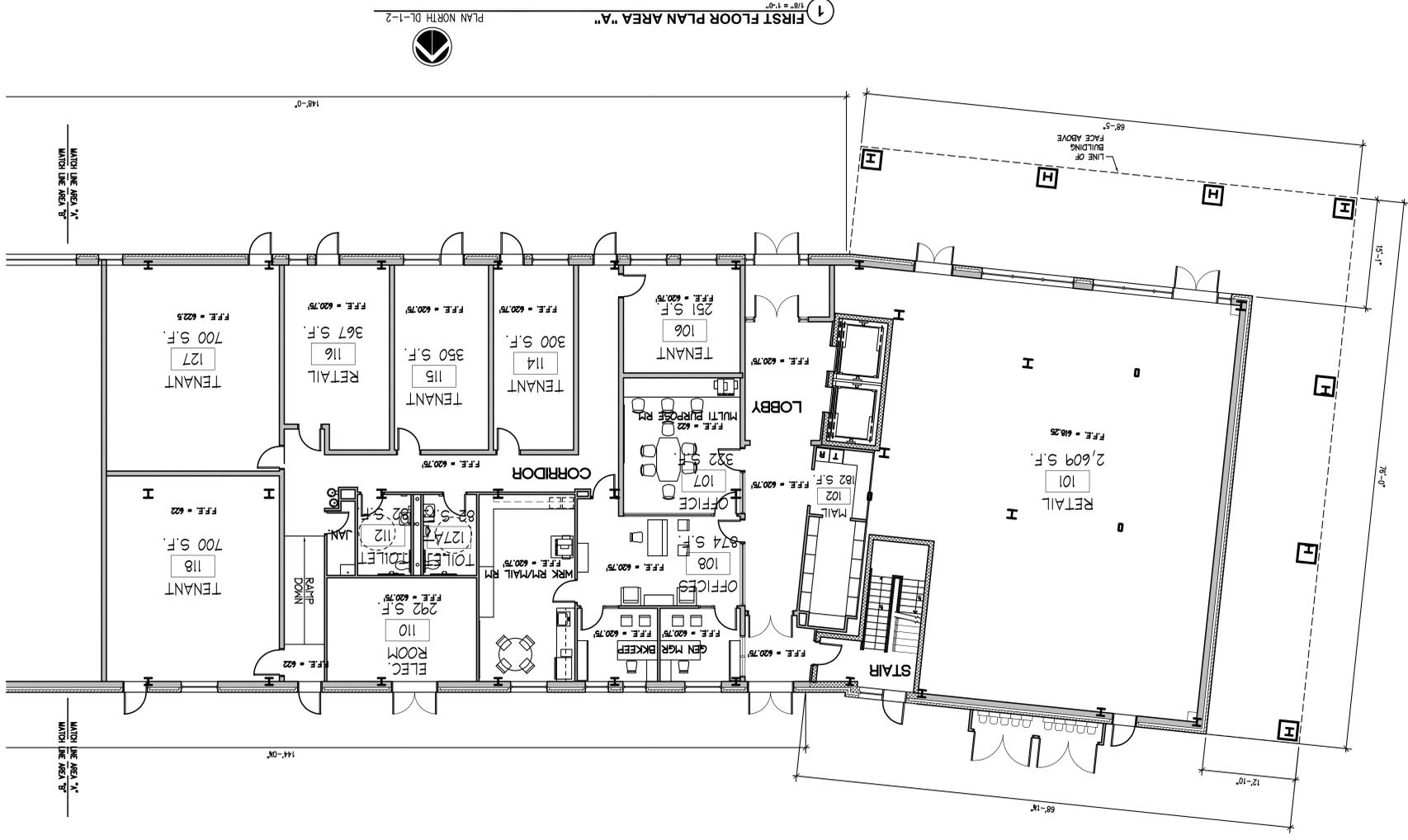
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Drawn E.L.Z.
Checked
Approved
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Project No. 03C667-Q
Date 01/13/11

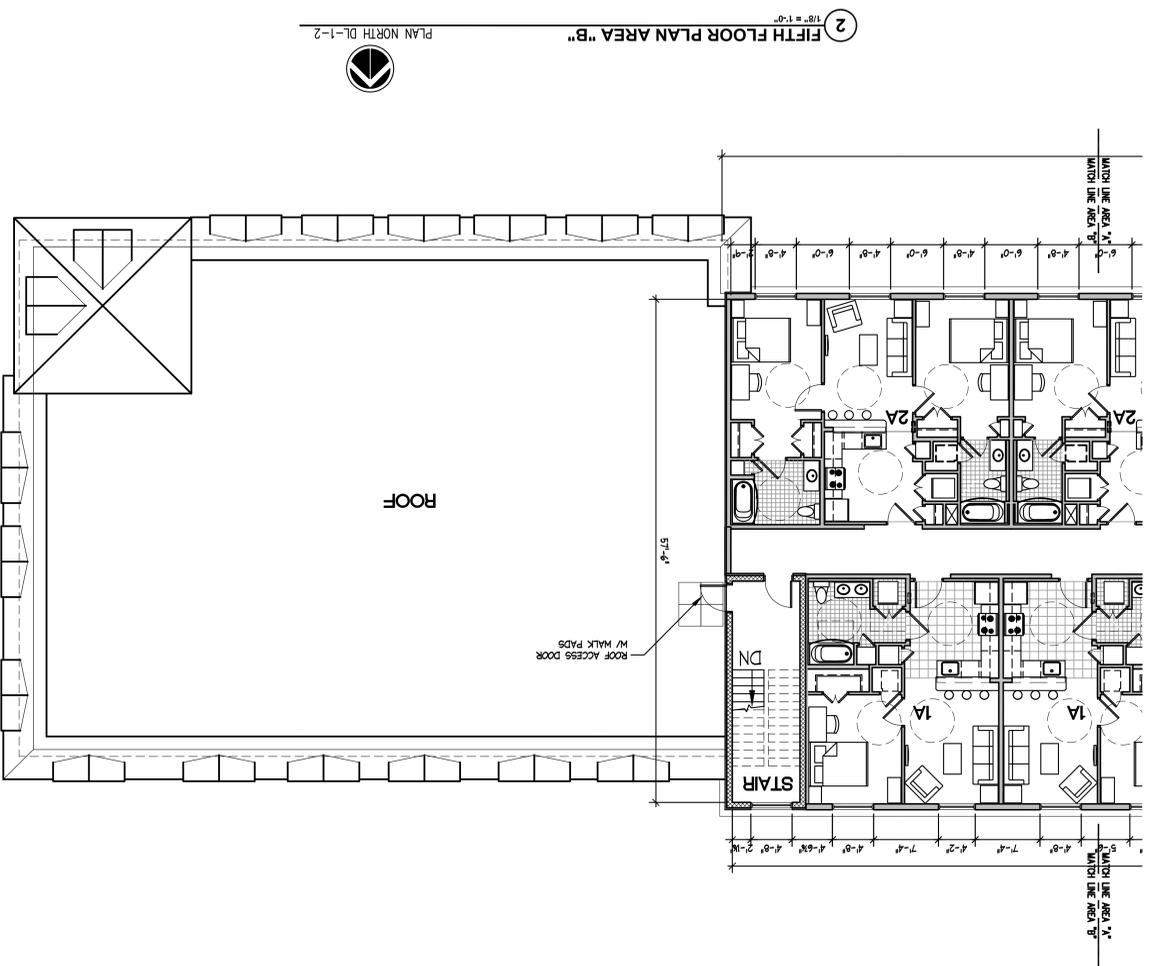
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Title
DETAILS SHEET

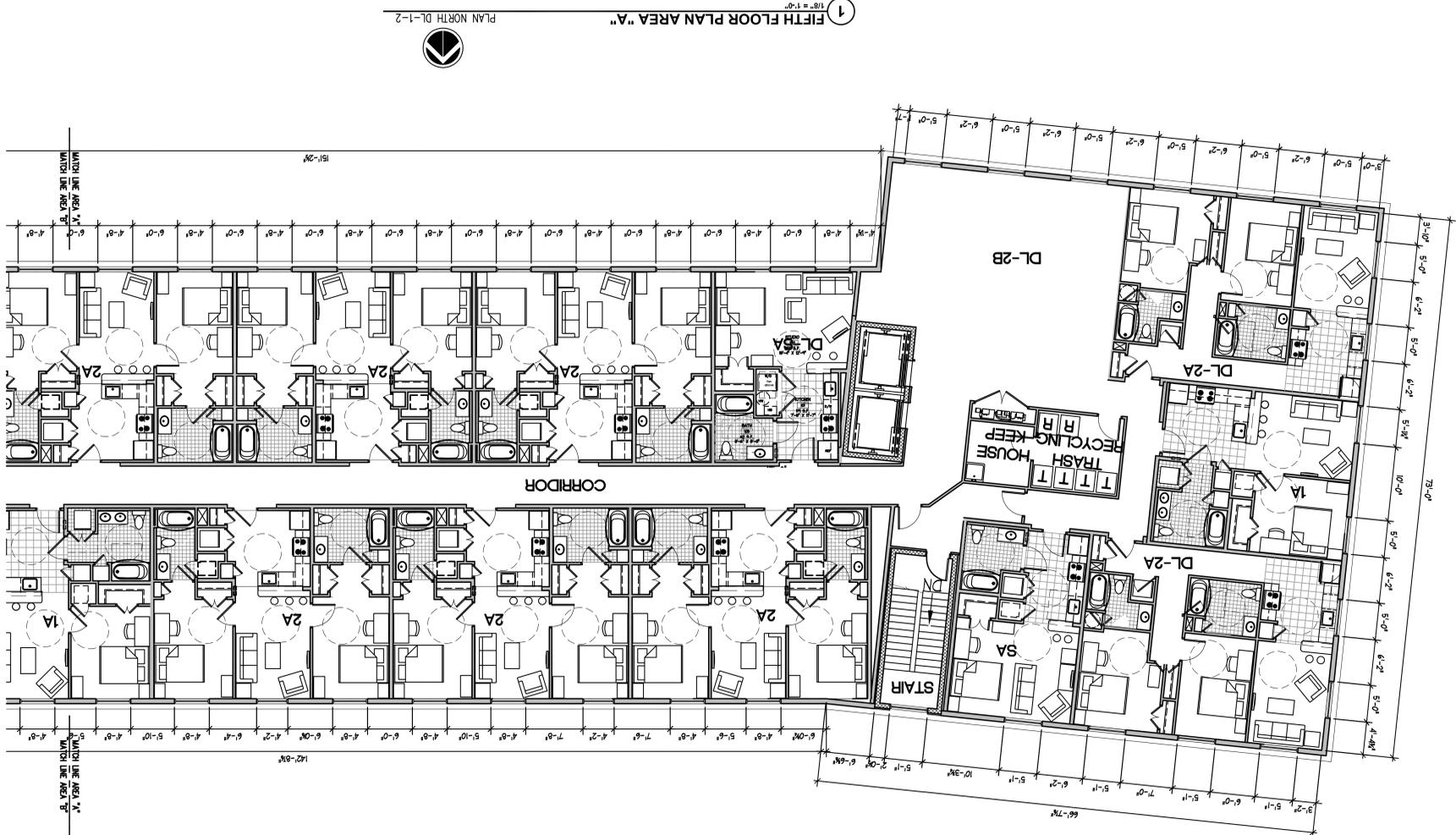
Sheet No.

DN-7





2 FIFTH FLOOR PLAN AREA "B"
1/8" = 1'-0"
PLAN NORTH DL-1-2



1 FIFTH FLOOR PLAN AREA "A"
1/8" = 1'-0"
PLAN NORTH DL-1-2



Sheet No.	A1.05
Project No.	030567-0
Date	01/13/2011
Scale	AS SHOWN
Approved	AG
Checked	WFS/SA
Drawn	AG
Designed	AG

STORRS CENTER - PHASE 1A
SCHEMATIC DESIGN DOCUMENTS BUILDING DL-1-2
DOG LANE
MANSFIELD, CONNECTICUT

1 SECOND FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH TS-1



Sheet No.	
Title	SECOND FLOOR PLAN
Client	AC00667102-T1
Date	01/13/2018
Project No.	030667-0
Scale	
Approved	AG
Checked	AG
Drawn	JMB
Designed	AG
No. Revisions	
Date	

STORRS CENTER - PHASE 1A
SCHEMATIC DESIGN DOCUMENTS - BUILDING TS-1
STORRS ROAD AND DOG LANE
MANSFIELD, CONNECTICUT

1 THIRD FLOOR PLAN
1/8" = 1'-0"



PLAN NORTH TS-1



Sheet No.	
Project No.	030667-0
Date	01/13/2011
Scale	
Approved	AG
Checked	AG
Drawn	JMB
Designed	AG
Revisions	
No.	Date

Title: THIRD FLOOR PLAN
 CAD File: A030667103-11
 Project No.: 030667-0
 Date: 01/13/2011
 Scale:
 Approved: AG
 Checked: AG
 Drawn: JMB
 Designed: AG

STORRS CENTER - PHASE 1A
 SCHEMATIC DESIGN DOCUMENTS - BUILDING TS-1
 STORRS ROAD AND DOG LANE
 MANSFIELD, CONNECTICUT

1 FOURTH FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH TS-1



DESIGNED	AS	NO. DATE	REVISIONS
CHECKED	AG		
APPROVED	AG		
DATE	01/13/2011		
PROJECT NO.	030667-0		
SCALE	AS SHOWN		
TITLE	FOURTH FLOOR PLAN		
CAD FILE	AC00667104-T1		
SHEET NO.	A104		

STORRS CENTER - PHASE 1A
 SCHEMATIC DESIGN DOCUMENTS - BUILDING TS-1
 STORRS ROAD AND DOG LANE
 MANSFIELD, CONNECTICUT

1 FIFTH FLOOR PLAN
1/8" = 1'-0"



PLAN NORTH TS-1



Sheet No.	
Title	FIFTH FLOOR PLAN
Client	ACCORP/7105-T1
Project No.	03067-0
Date	01/13/2011
Scale	
Approved	AG
Checked	AG
Drawn	JMB
Designed	AG

REVISIONS	No.	Date

STORRS CENTER - PHASE 1A
 SCHEMATIC DESIGN DOCUMENTS - BUILDING TS-1
 STORRS ROAD AND DOG LANE
 MANSFIELD, CONNECTICUT

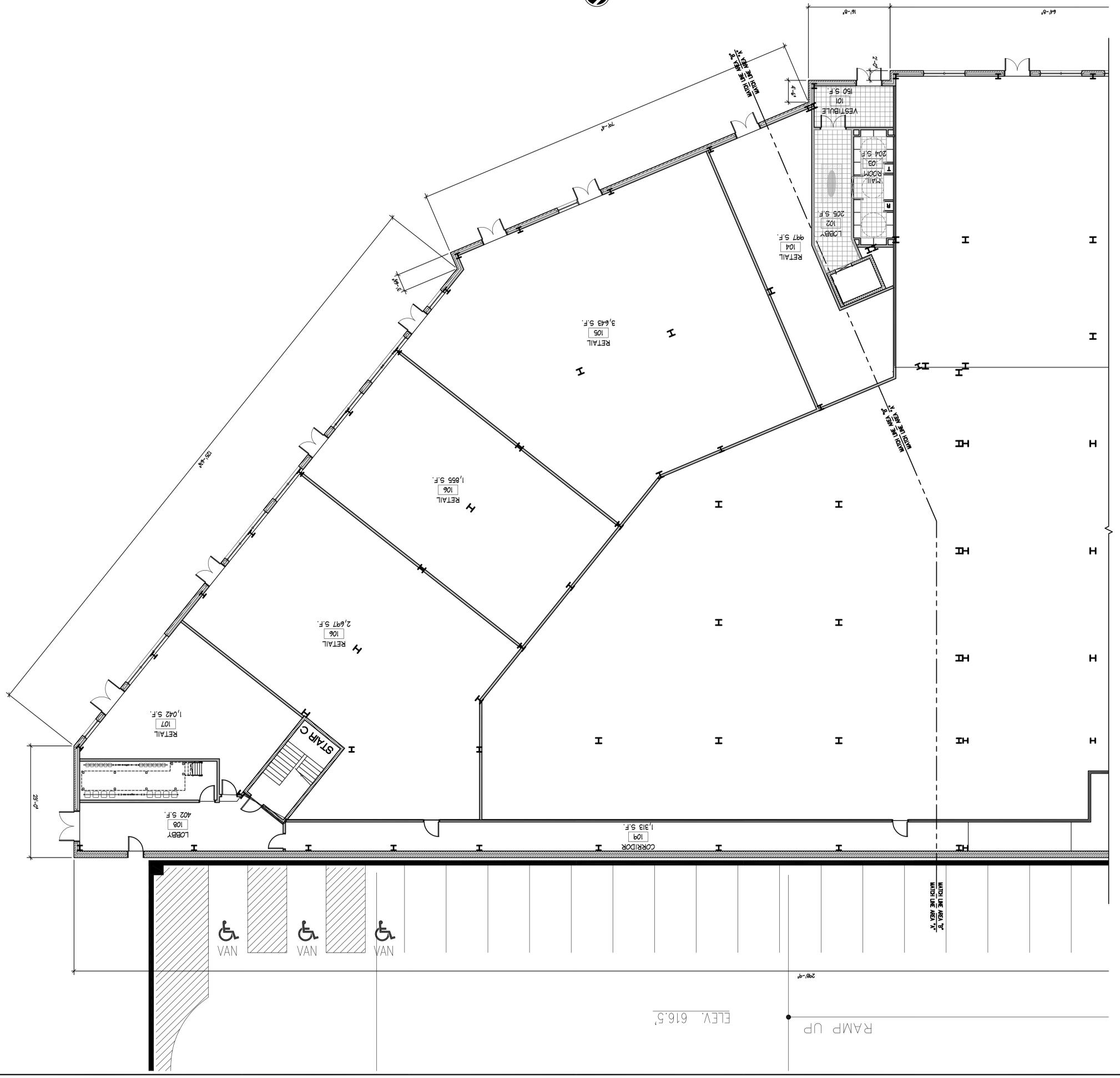
355 Research Parkway
 Mansfield, CT 06250
 (203) 634-1606
 (203) 630-2615 Fax

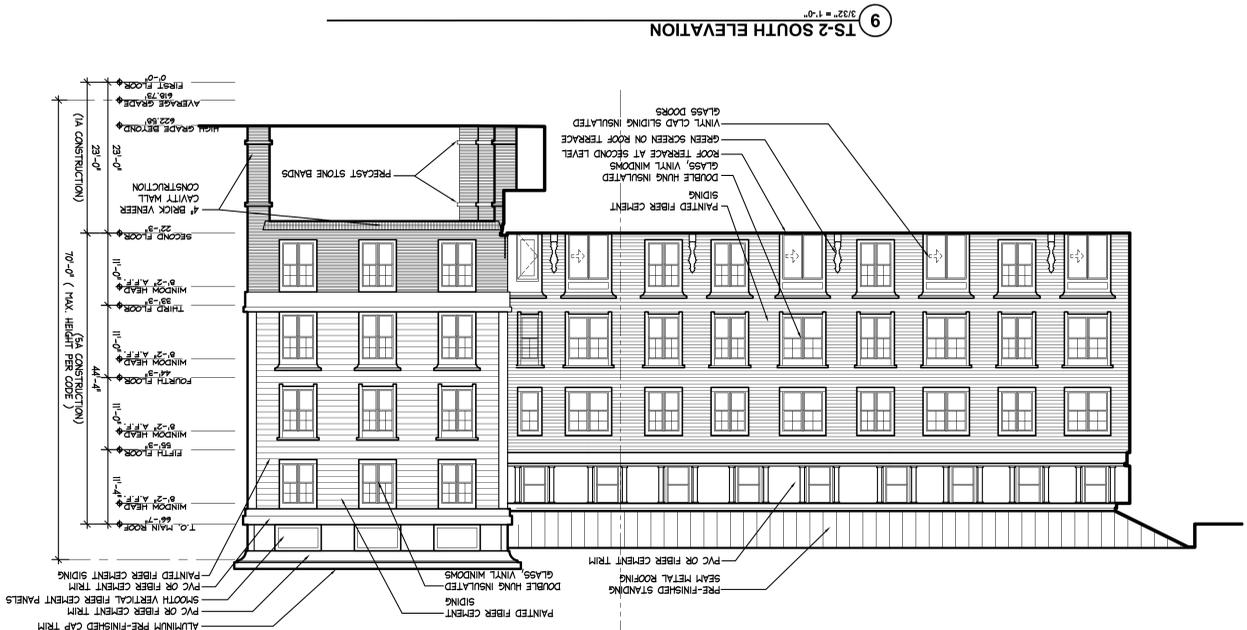
PLANNING
 LANDSCAPE ARCHITECTURE
 LAND SURVEYING
 ENVIRONMENTAL SCIENCES

Compu
 ARCHITECTURE
 ENGINEERING
 PLANNING

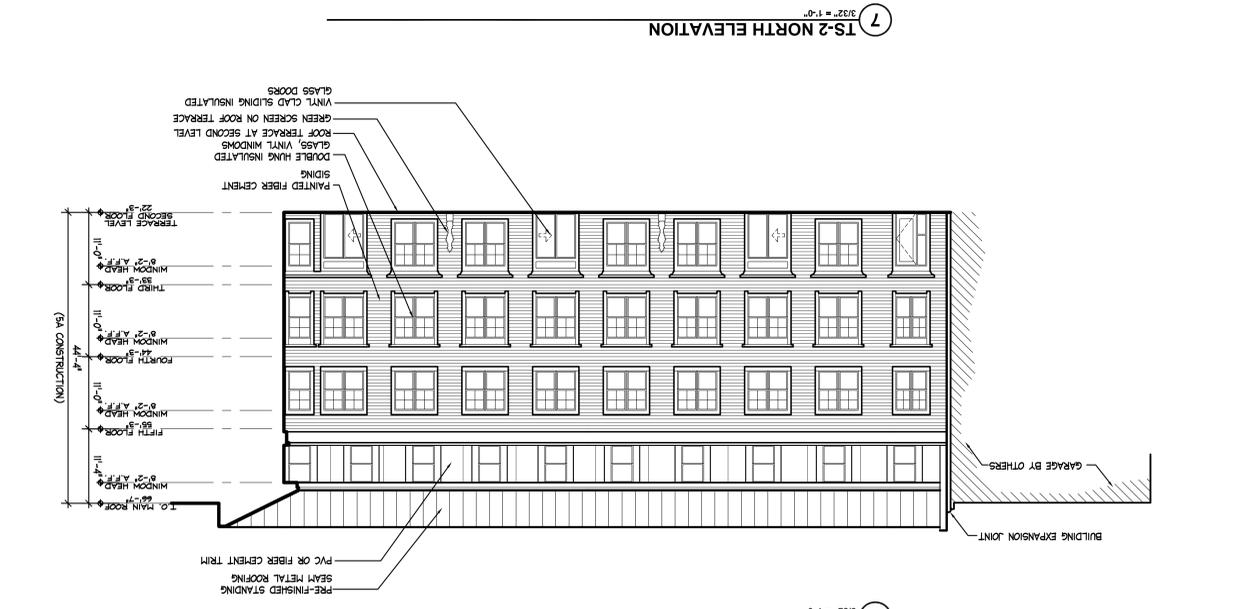


1 FIRST FLOOR PLAN AREA "B"
1/8" = 1'-0"
PLAN NORTH TS-2

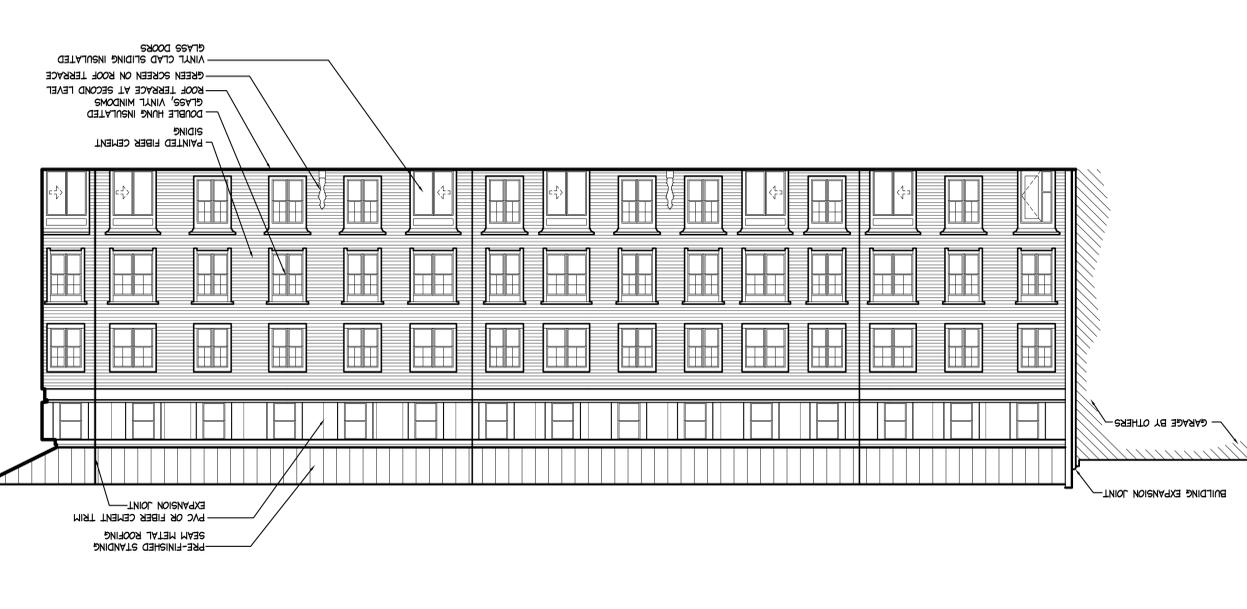




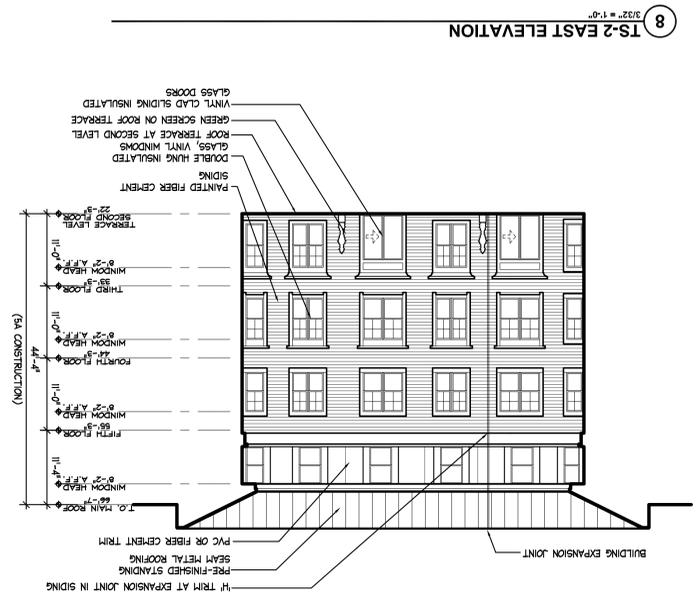
9 TS-2 SOUTH ELEVATION
3/32" = 1'-0"



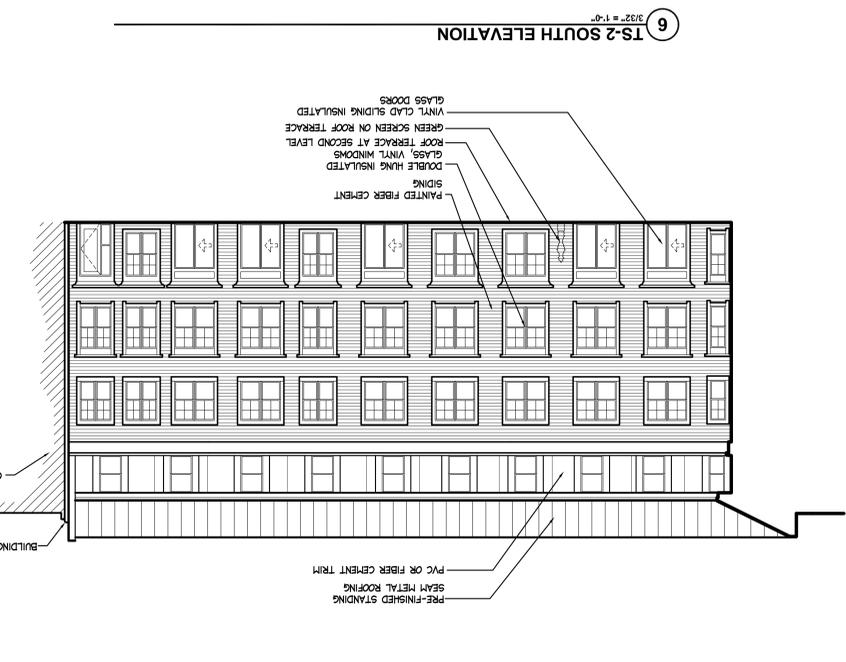
7 TS-2 NORTH ELEVATION
3/32" = 1'-0"



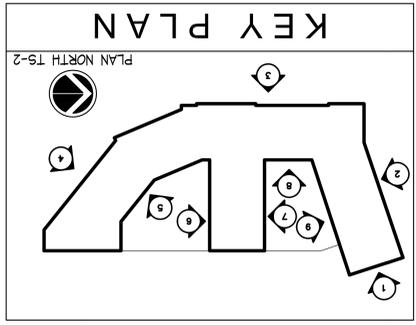
5 TS-2 NORTH ELEVATION
3/32" = 1'-0"



8 TS-2 EAST ELEVATION
3/32" = 1'-0"



6 TS-2 SOUTH ELEVATION
3/32" = 1'-0"



KEY PLAN
PLAN NORTH TS-2

Sheet No. **A202**

DESIGNED	DRAWN	CHECKED	APPROVED	SCALE	DATE
AG	SI	JMB	AG		

Project No. 00067-0
Date 01/13/2011
Title EXTENSION ELEVATIONS
AC00867201-12

STORRS CENTER - PHASE 1B
SCHEMATIC DESIGN DOCUMENTS - BUILDING TS-2
 DOG LANE AND VILLAGE STREET
 MANSFIELD, CONNECTICUT

355 Research Parkway
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 ENVIRONMENTAL SCIENCES