

PLANTING BED WITH 2"

12" MIN. PLANTING SOIL

AMEND PER SOIL TEST

RECOMMENDATIONS

3/6" BORDER CONCEPTS

- LAWN FINISHED GRADE

UNFINISHED STEEL EDGING

PLANTING BED

15" STEEL STAKE

APPROVED FILL

CHARLOTTE, NC

1-800-845-3343

PROCTOR

UNDISTURBED EARTH OR

COMPACTED TO 95% STD.

BORDER CONCEPTS, INC.

BORDERCONCEPTS.COM

GROUNDCOVER, VINE OR

2" LAYER MULCH - DO NOT PLACE MULCH IN CONTACT

TOPSOIL / PLANTING SOIL AMEND PER SOIL TEST

UNEXCAVATED GROUND

RECOMMENDATIONS

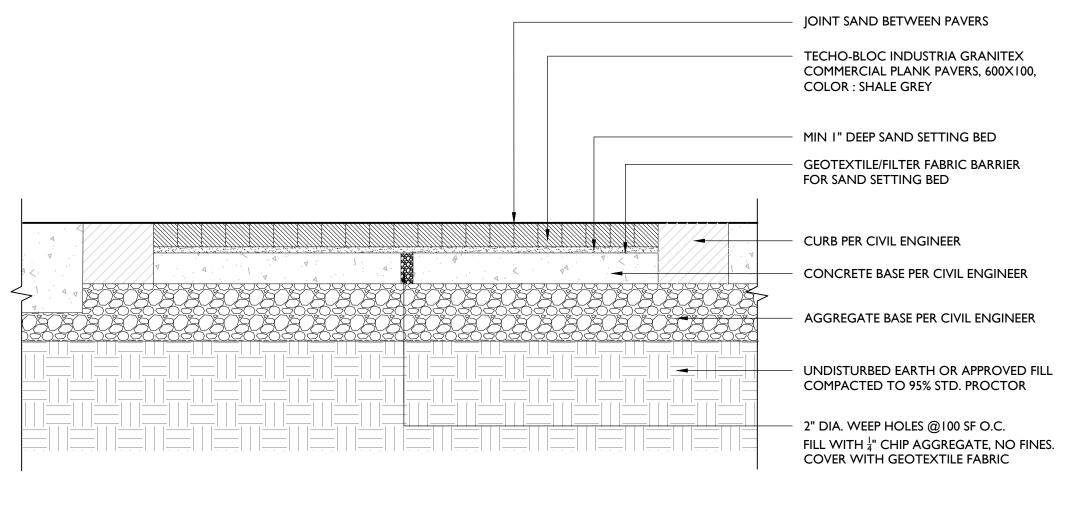
OR SUBGRADE

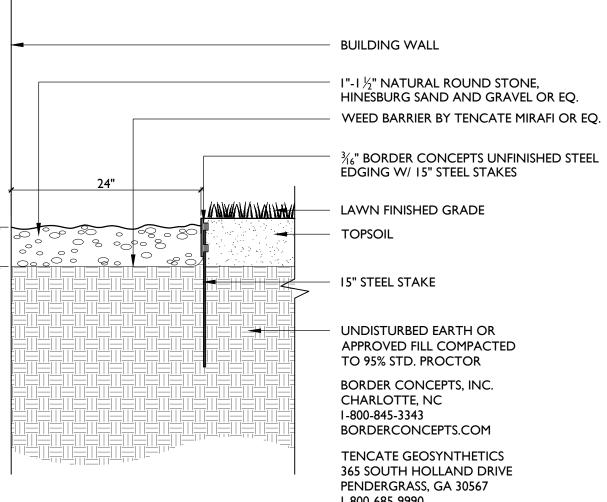
WITH PLANT STEMS

PERENNIAL, TYP.

TOPSOIL

SHREDDED HARDWOOD





WAGNER HODGSON LANDSCAPE ARCHITECTURE **VT**802.864.0010 **NY**518.567.1791 wagnerhodgson.com 1-800-685-9990 MIRAFI.COM

PEDESTRIAN CONCRETE PAVING / 3/4" = 1'-0"

PLANTING BED W/ STEEL EDGING

VEHICULAR CONCRETE PAVING (SPEED TABLE) / 3/4" = 1'-0"

TREE SET TO BE PLUMB PRUNING SHALL BE DONE AFTER DELIVERY OF PLANTS AND AFTER PLANTS HAVE BEEN INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT. PRUNING PROCEDURES SHALL BE REVIEWED WITH THE LANDSCAPE ARCHITECT BEFORE PROCEEDING. PRUNING SHALL BE DONE WITH A CLEAN SHARP TOOL. CUTS SHALL BE MADE FLUSH, LEAVING NO STUBS. NO TREE PAINT SHALL BE USED. DEAD WOOD, SUCKERS AND BROKEN AND BADLY BRUISED BRANCHES SHALL BE REMOVED. 2" MULCH. DO NOT PLACE MULCH IN -CONTACT WITH TREE TRUNK. MAINTAIN MULCH WEED-FREE FOR A MIN. OF ONE YEAR AFTER PLANTING. BACKFILL WITH EXISTING SOIL IN SANDY LOAM SOIL, MIX IN 20% COMPOSTED ORGANIC MATERIAL WITH EXISTING SOIL. GENTLY PACK THE 3 TIMES THE ROOT BALL DIAMETER

TRUNK PROTECTION, REINFORCED RUBBER HOSE DOUBLE #10 GA. TWISTED GUYING WIRE, 3 PER TREE WITH TURNBUCKLE MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE. EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL. SET TOP OF MAIN ORDER ROOTS FLUSH TO GRADE OR I"-2" HIGHER IN SLOWLY DRAINING SOILS. 4" HIGH TEMPORARY SOIL SAUCER BEYOND EDGE OF ROOT BALL. REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM TOP HALF OF ROOT BALL, 8" MIN. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE

BASKET IN FOUR PLACES AND FOLD DOWN 8" INTO PLANTING HOLE. CUT ALL GIRDLING ROOTS. DUCK BILL TREE ANCHOR I. REMOVE ALL NON - BIODEGRADABLE MATERIAL FROM

2. REMOVE ALL PLANT MATERIAL TAGS, FLAGGING, AND EXTRANEOUS LABELS, ETC.

SHRUB SET TO BE PLUMB PRUNE TO REMOVE DEAD AND DAMAGED STEMS. MAINTAIN 2" MULCH. DO NOT PLACE — NATURAL SHAPE OF PLANT. DO MULCH IN CONTACT WITH NOT SHEAR PLANT SHRUB TRUNK. MAINTAIN MULCH SET TOP OF MAIN ORDER ROOTS WEED-FREE FOR A MINIMUM OF FLUSH TO GRADE OR 1"-2" HIGHER ONE YEAR AFTER PLANTING. IN SLOWLY DRAINING SOILS. BACKFILL WITH EXISTING SOIL 4" HIGH TEMPORARY SOIL SAUCER IN SANDY LOAM SOIL, MIX IN 20% COMPOSTED ORGANIC MATERIAL WITH EXISTING SOIL. GENTLY PACK THE BACKFILL, USING WATER TO SETTLE SOIL AND ELIMINATE AIR POCKETS. PLACE ROOT BALL ON UNEXCAVATED OR COMPACTED SUBGRADE TO PREVENT 3 TIMES THE ROOT BALL DIAMETER SETTLEMENT. GIRDLING ROOTS. I. REMOVE ALL NON - BIODEGRADABLE MATERIAL FROM PLANT PIT.

2. REMOVE ALL PLANT MATERIAL TAGS,

FLAGGING, AND EXTRANEOUS LABELS, ETC.

STONE MAINTENANCE EDGE

BEYOND EDGE OF ROOT BALL. REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM TOP HALF OF ROOT BALL, 8" MIN. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN 8" INTO PLANTING HOLE. CUT ALL

PRICING SET NOT FOR CONSTRUCTION

CENTER

RICHMOND, VT 05477

CONCEPTUAL

BRIDGE STREET

DETAILS

DESCRIPTION

RICHMOND TOWN

DATE

SHRUB PLANTING

TREE PLANTING

SPACING "D"	ROW "A"	NUMBER OF
		PLANTS/SQ.FT.
60" O.C.	51.96"	0.04
48" O.C	41.52"	0.07
42" O.C.	36.52"	0.10
36" O.C.	31.20"	0.12
30" O.C.	26.00"	0.18

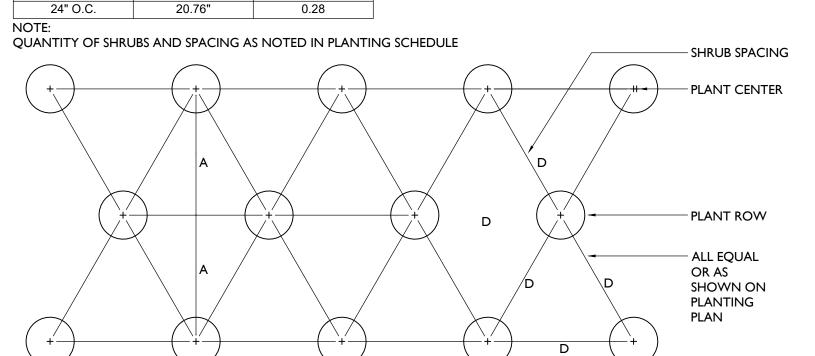
BACKFILL, USING WATER TO SETTLE

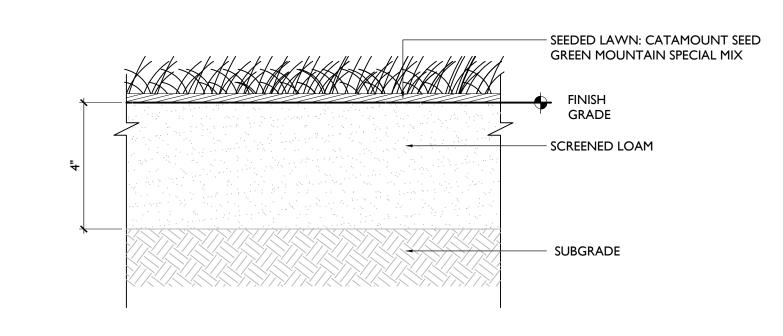
SOIL AND ELIMINATE AIR POCKETS.

PREVENT SETTLEMENT.

PLACE ROOT BALL ON UNEXCAVATED

OR COMPACTED NEW SUBGRADE TO



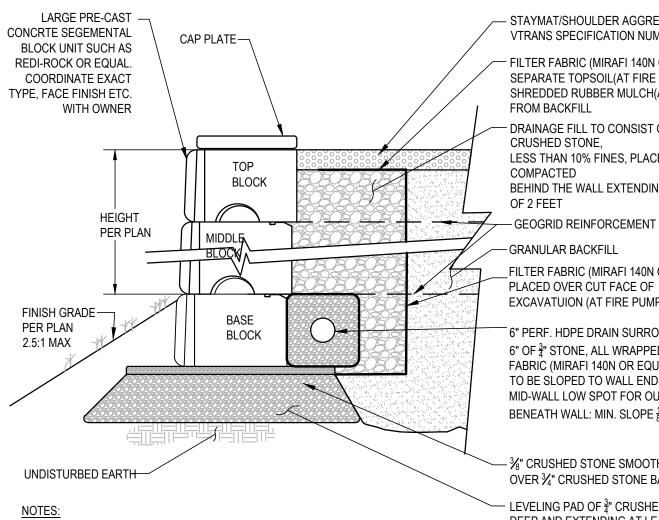


JOB NO. 22-299 SCALE: **VARIES** DRAWN BY: CS 07.31.2023

GROUNDCOVER AND PERENNIAL PLANTING

GROUNDCOVER AND PERENNIAL SPACING

SEEDED GRASS PLANTING



- STAYMAT/SHOULDER AGGREGATE PER VTRANS SPECIFICATION NUMBER 702.12B FILTER FABRIC (MIRAFI 140N OR EQUAL) TO SEPARATE TOPSOIL(AT FIRE PUMP/TANK) OR SHREDDED RUBBER MULCH(AT PLAY AREA) FROM BACKFILL $\overline{}$ DRAINAGE FILL TO CONSIST OF $\frac{3}{4}$ "

CRUSHED STONE, LESS THAN 10% FINES, PLACED AND COMPACTED

BEHIND THE WALL EXTENDING A MINIMUM OF 2 FEET

- GEOGRID REINFORCEMENT (TYP) - GRANULAR BACKFILL _FILTER FABRIC (MIRAFI 140N OR EQUAL)

EXCAVATUION (AT FIRE PUMP/TANK) 6" PERF. HDPE DRAIN SURROUNDED BY 6" OF $\frac{3}{4}$ " STONE, ALL WRAPPED IN FILTER FABRIC (MIRAFI 140N OR EQUAL). PIPE TO BE SLOPED TO WALL ENDS OR TO MID-WALL LOW SPOT FOR OUTLET BENEATH WALL: MIN. SLOPE \(\frac{1}{8} \) PER FOOT.

 $-\frac{3}{8}$ " CRUSHED STONE SMOOTHING LAYER OVER $\frac{3}{4}$ " CRUSHED STONE BASE.

LEVELING PAD OF $\frac{3}{4}$ " CRUSHED STONE, 12" DEEP AND EXTENDING AT LEAST 12" 1. CONTRACTOR TO SUBMIT DRAWING STAMPED BY VT LICENSED PROFESSIONAL GEO-BEYOND THE FRONT AND BACK OF BASE TECHNICAL ENGINEER FOR APPROVAL BY PROJECT ENGINEER AND CITY OF WINOOSKI. BLOCK, SHALL BE INSTALLED. AN 2. STRIP ALL VEGETATION, ORGANIC SOILS AND UNSUITABLE FILL SOILS FROM THE WALL OPTIONAL SURFACE TREATMENT OF THE STONE IS PLACEMENT OF APPROX. ¹/₂" TO 1" THICKNESS OF 3/8" CRUSHED STONE WHICH CAN BE COMPACTED AND

4. DO NOT OVER EXCAVATE UNLESS DIRECTED TO DO SO BY THE OWNER'S SMOOTHED FOR LEVELING SURFACE. SITE REPRESENTATIVE IN ORDER TO REMOVE UNSUITABLE SOIL.

5. THE OWNER'S SITE REPRESENTATIVE SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN STANDARDS

6. LEVELING PAD SHALL CONSIST OF COMPACTED, ¾" CRUSHED GRAVEL, 12" THICK AND EXTENDING AT LEAST 12" TO EITHER SIDE OF THE BASE BLOCK. A SMOOTHING SURFACE OF %" CRUSHED STONE MAY BE UTILIZED.

MINIMUM EMBEDMENT OF WALL BELOW FINISH GRADE SHALL BE AS INDICATED ON THE WALL FACE DRAWING. FOLLOW APPLICABLE PROVISIONS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS,

ESPECIALLY WITH REGARDS TO LEVELING OF BLOCKS AND BASE. DRAINAGE FILL SHALL CONSIST OF 3/4" CRUSHED STONE, LESS THAN 10% FINES, PLACED AND COMPACTED BEHIND THE WALL EXTENDING A MINIMUM OF 2 FEET, OR THE LENGTH OF THE REQUIRED GEO-GRID TIE BACK, WHICHEVER IS GREATER. BEHIND THE WALL. A FILTER FABRIC SHALL BE PLACED OVER THE CUT OR FILL FACE BEHIND THE WALL AREA TO PREVENT SOIL

MIGRATION INTO THE DRAINAGE MATERIAL. 10. WHERE PERFORATED HDPE DRAINS ARE USED, PROVIDE OUTLETS AT THE ENDS OF THE WALL OR AT A LOW COLLECTION POINT ALONG THE WALL. (ALTERNATIVE OUTLET METHODS MAY BE APPROVED BY THE DESIGN ENGINEER.)

11. BACKFILL AND COMPACT THE FILL MATERIAL BEHIND THE WALL AS THE WALL IS INSTALLED. 12. COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED

13. PLACE FILTER FABRIC (MIRAFFI 140N, OR EQUAL) OVER THE DRAINAGE MATERIAL TO MINIMIZE SOIL MIGRATION FROM THE

SURFACE MATERIAL INTO THE DRAINAGE MATERIAL 14. COMPACTION SHALL BE TO 92% (MODIFIED PROCTOR) OR 95% (STANDARD PROCTOR).

15. PROVIDE LATERAL DRAINAGE SWALES TO DIRECT FLOWS AROUND THE ENDS OF THE WALL AND AWAY FROM THE WALL DURING CONSTRUCTION. DO NOT CONSTRUCT A SWALE BEHIND THE WALL AS PART OF THE FINISHED WALL. GRADE ABOVE THE WALL SO THAT WATER FLOWS OVER THE FACE OR TO A POINT AT LEAST AS FAR BEHIND THE WALL AS THE WALL HEIGHT.

16. TURF, OR SOME ACCEPTABLE FORM OF SOIL EROSION PROTECTION, SHOULD BE ESTABLISHED AT THE TOP OF THE WALL (WHERE REQUIRED) BY THE LANDSCAPE CONTRACTOR AS SOON AS THE WALL IS COMPLETED.

17. FINAL WALL ALIGNMENT SHALL BE LOCATED IN THE FIELD.

ALIGNMENT AREA.

3. BENCH CUT ALL EXCAVATED SLOPES.

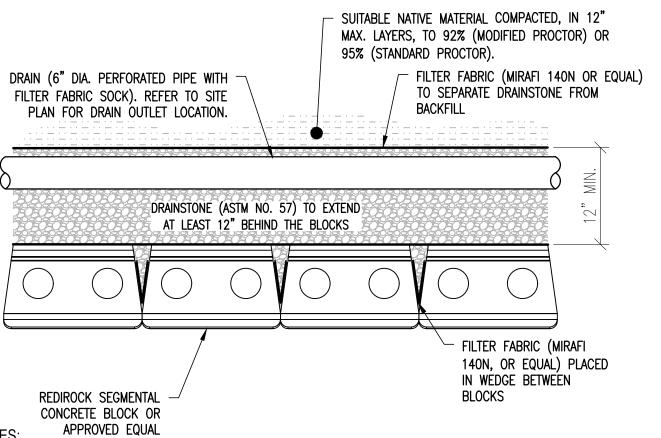
18. RECOMMENDED COMPACTION EQUIPMENT WITHIN 15 FEET OF THE BACK OF THE WALL IS AS FOLLOWS: 0-4 FEET HAND TAMP OR VIBRATE PLATE COMPACTOR

4-15 FEET NOTHING LARGER THAT TWO-DRUM, WALK BEHIND VIBRATORY ROLLER

(LARGER ROLLERS CAN BE USED STATICALLY, PROVIDED LIFT SIZE DOES NOT COMPROMISE ACHIEVEMENT OF NECESSARY COMPACTION RATES.)

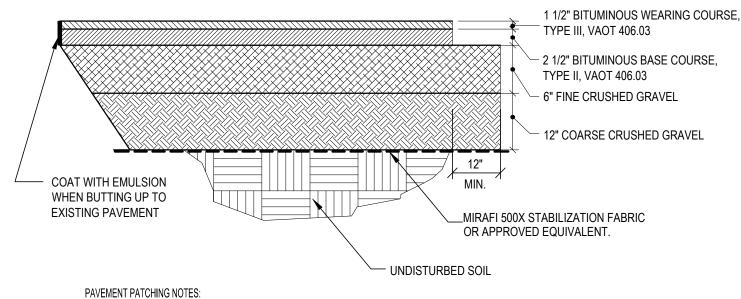
SEGMENTAL BLOCK WALL DETAIL

SCALE: NONE



 SLOPE DRAIN TO WALL ENDS, MIN. ½" PER FOOT, OR SLOPE TO LOW POINT AND DROP THE DRAIN UNDER THE WALL. WALL DRAIN TO RUN TO RAIN GARDEN AREA. CONSTRUCTION DOCUMENT PLANS WILL BE UPDATED TO REFLECT ROUTING.

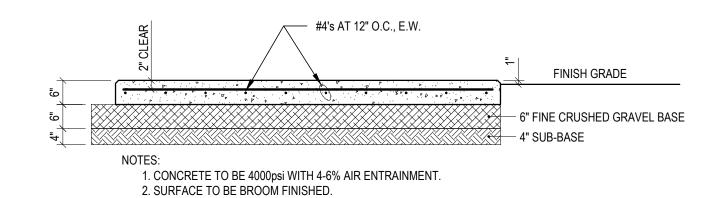
SEGMENTAL BLOCK WALL DRAIN DETAIL



1. IN ALL PAVEMENT AREAS TO BE PATCHED, SAW CUT AND REMOVE EXISTING PAVEMENT.

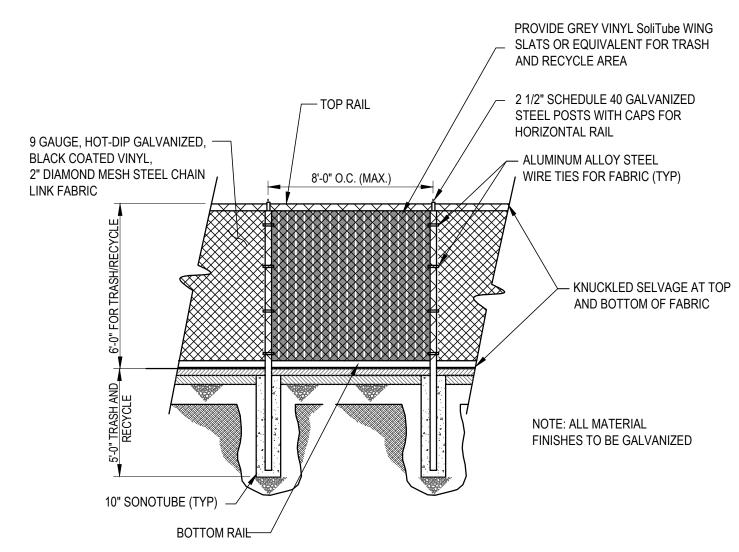
2. EXCAVATE BASE MATERIAL AND SUB-BASE MATERIAL IF INADEQUATE. 3. COMPACT ALL FILL MATERIAL TO 95% MODIFIED PROCTOR

TYPICAL PAVEMENT DETAIL



DUMPSTER/RECYCLING CONCRETE PAD DETAIL

SCALE: NONE

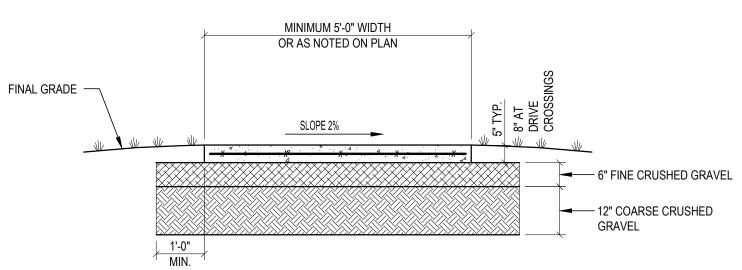


DUMPSTER/RECYCLING FENCE DETAIL

BIKE RACKS:DOWNTOWN RACK BY DERO (OR EQUIVALENT), LIGHTWEIGHT, GALVANIZED & SURFACE MOUNTED CONCRETE PAD, REFER TO DETAIL ON THIS SHEET WHEN INSTALLING RACKS IN A SERIES, **TOP VIEW** SPACE AS SHOWN TO PRODUCE "CONTINUOUS" APPEARANCE BIKE RACKS:DOWNTOWN RACK BY DERO (OR EQUIVALENT), LIGHTWEIGHT, GALVANIZED & SURFACE MOUNTED - 3/8" DIA. X 4" LONG GALVANIZED EXPANSION ANCHOR BOLTS - 2 ANCHOR BOLTS PER SQUARE PLATE

> THE MANUFACTURER'S INSTRUCTIONS. SIDE VIEW TYPICAL BIKE RACK DETAIL

. THE INSTALLATION SHALL CONFORM TO



SIDEWALK DETAIL

CONCRETE SIDEWALK NOTES:

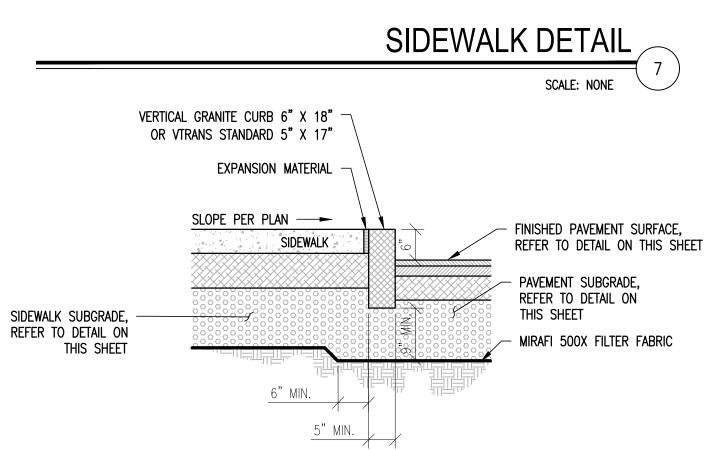
1. PLACE A TOOLED JOINT 1/8" WIDE AND AT LEAST 1/3 OF THE DEPTH, TYPICALLY AT INTERVALS MATCHING THE SIDEWALK WIDTH, OR AS NOTED ON PLANS (NOT TO EXCEED 10'-0").

2. PLACE EXPANSION JOINT AS INDICATED ON PLANS, NOT TO EXCEED 20'-0" MAX. ALL EXPANSION JOINTS SHALL BE DOWELED WITH A $\frac{3}{4}$ " DIAMETER SMOOTH DOWEL AT 12" O.C. DOWEL SHALL BE 15" IN LENGTH AND SHALL HAVE AN EXPANSION CAP INSTALLED AT THE END. SEE DETAIL ON THIS SHEET.

3. BROOM FINISH WITH SMOOTH TROWELED EDGES. TREAT WITH SILANE-SILOXANE OR EQUAL. 4. CAST-IN-PLACE CONCRETE TO BE 4000 psi CONCRETE, 5%-7% AIR ENTRAINMENT WITH 6x6-W4.0xW4.0 REINFORCING CENTERED

5. WHERE SIDEWALK IS ADJACENT TO ENTRY/EXIT DOOR PADS WITH FROST WALL FOUNDATIONS, SIDEWALK SHALL BE DOWELED TO PAD WITH 24" LONG #4 DOWELS (CENTERED) AT 1'-6" oc (PORTION OF DOWEL IN SIDEWALK TO BE GREASED). 6. WHERE SIDEWALK IS ADJACENT TO CURB, BOLLARD OR OTHER HARD FEATURE, INSTALL 1/4" EXPANSION MATERIAL (FULL

DEPTH OF SIDEWALK), BETWEEN FEATURE AND SIDEWALK. 7. COMPACT ALL FILL MATERIAL TO 95% MODIFIED PROCTOR.



GRANITE CURBS SHALL BE INSTALLED IN ACCORDANCE WITH PROJECT AND STATE SPECIFICATIONS.

2. WHERE CURB IS ADJACENT TO ENTRY/EXIT DOOR PADS WITH FROST WALL FOUNDATIONS CURB SHALL BE DOWELED TO PAD WITH 24" LONG #4 DOWELS (CENTERED) AT 1'-6"oc (PORTION OF DOWEL IN CURB TO BE GREASED).

WHERE CURB IS ADJACENT TO SIDEWALK, BOLLARD OR OTHER HARD FEATURE, BACKSIDE OF CURB SHALL BE SAW CUT. 1/4" EXPANSION MATERIAL (FULL DEPTH OF CURB), SHALL BE INSTALLED BETWEEN FEATURE AND CURB.

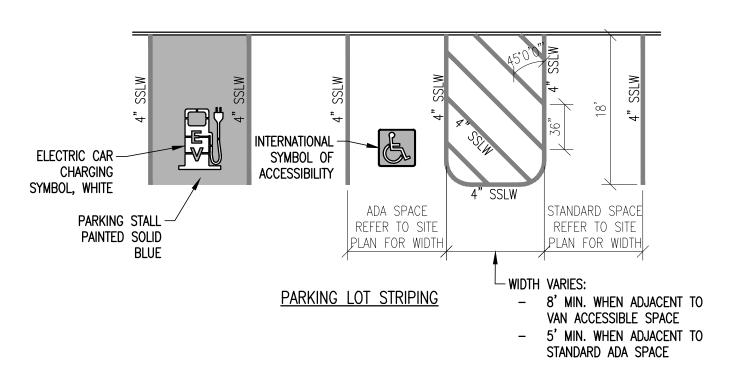
VERTICAL GRANITE CURB DETAIL

CENTER TOWN RICHMOND

Checked By

SIGN AND POST DETAILS

SCALE: NONE



PAVEMENT MARKINGS DETAIL

EARTHWORK NOTES

1. PRIOR TO THE START OF WORK, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE CONTRACTOR, OWNER, PROJECT ENGINEER AND TOWN DPW TO REVIEW PROCEDURES AND IDENTIFY RESPONSIBILITIES. 4 WEEKS NOTICE SHALL BE GIVEN TO THE TOWN PRIOR TO START OF CONSTRUCTION. UNLESS STATED OTHERWISE STATED, ALL MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE VTRANS SPECIFICATIONS.

2. CLEARING AND GRUBBING- SITE TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, INCLUDING DRIVEWAYS, STONE WALLS, AND GRASS AREAS. THE DRIVEWAY SUB-GRADE MATERIAL SHALL EXTEND ONE FOOT BEYOND THE EDGE OF PAVING.

3. COMPACTION OF ALL MATERIALS SHALL BE PERFORMED USING VIBRATORY ROLLERS AND WATER IN LIFTS OF NO GREATER THAN TWELVE INCHES. COMPACTION SHALL BE PERFORMED UNTIL THE REQUIRED DENSITY IS ACHIEVED. DENSITY SHALL BE DETERMINED BY ASTM D2922 AND SHALL NOT BE LESS THAN THE REQUIRED AMOUNT AS DETERMINED IN ACCORDANCE WITH ASTM D1557.

4. COMPACTION TESTING SHALL BE PERFORMED FOR EVERY LAYER OF MATERIAL PLACED AND FOR EVERY 2500 SQUARE FEET OF

5. PAVEMENT SHALL MEET THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AS PUBLISHED BY

6. PAVEMENT SHALL NOT BE INSTALLED WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT, NOR WHEN THE ROAD BASE TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT. PAVEMENT SHALL NOT FALL BELOW 185 DEGREES FAHRENHEIT PRIOR TO THE COMPLETION OF ROLLING. PAVEMENT SHALL NOT BE INSTALLED WHEN THE SUBGRADE IS FROZEN OR THE GRADES ARE INCORRECT.

7. ALL REMAINING DISTURBED AREAS SHALL BE FERTILIZED AND SEEDED IN ACCORDANCE WITH APPLICABLE STATE SPECIFICATIONS FOR EROSION CONTROL.

8. THE SEEDING OF 10% OR GREATER SLOPES SHALL REQUIRE THE USE OF EROSION CONTROL MATTING.

9. ALL EARTHWORK MATERIALS SHALL BE OBTAINED FROM APPROVED SOURCES. THEY SHALL CONSIST OF SATISFACTORILY GRADED, FREE DRAINING MATERIAL, REASONABLY FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIAL. EARTHWORK MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING TABLES:

A. SAND BLANKET/BEDDIN	G: SIEVE DESIGNATION 2 INCHES	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES 100
	1-1/2 INCHES	
	1/2 INCH	70 - 100
	NO. 4	60 - 100
	NO. 100	0 - 20
	NO. 200	0 - 8
B. 3/4" CRUSHED STONE:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 INCH	100
	3/4 INCHES	90 - 100
	3/8 INCH	20 - 55
	NO. 4	0 - 10
	NO. 8	0 - 5
C. 1 1/2" CRUSHED STONE		PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	1 3/4 INCH	100
	1 1/2 INCH	90 - 100
	1 INCH	20 - 55
	3/4 INCH	0 - 15
	3/8 INCH	0 - 5
. COARSE CRUSHED GRA	VEL: SIEVE DESIGNATIO	N PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
. COMMOD CHOCKIES CHA	4 INCHES	95 - 100
	NO. 4	25 - 50
	NO. 100	0 - 12
	NO. 200	0 - 6
. FINE CRUSHED GRAVEL	: SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	2 INCHES	100
	1~8 INCHE	S 90 - 100
	NO. 4	30 - 60
	NO. 100	0 - 12
	NO. 200	0 - 6
F. GRANULAR BACKFILL:	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
	3 INCHES	100
	2 1/2 INCHE	
	NO. 4	45 - 75
	NO. 100 NO. 200	0 - 12 0 - 6
G. TYPE I STONE FOR STO		0 - 0
		N 05 THE 070NE 014N NABY EDOM 4 INOLUTO 40 INCHES
		N OF THE STONE SHALL VARY FROM 1 INCH TO 12 INCHES,
		INT OF THE VOLUME OF THE STONE IN PLACE SHALL HAVE A
	LEAST DIMENSION OF FO	JUK INCHES.
H. TYPE II STONE FOR STO	NE FILL	
		IN OF THE STONE SHALL VARY FROM TWO INCHES TO 36 INCH

AND AT LEAST 50 PERCENT OF THE VOLUME OF THE STONE IN PLACE SHALL HAVE A LEAST DIMENSION OF 12 INCHES.

I. TOPSOIL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE SPECIFICALLY STATED IN THE CONTRACT DOCUMENTS:

1. THE pH OF THE MATERIAL SHALL BE BETWEEN 5.5 AND 7.6. 2. THE ORGANIC CONTENT SHALL BE NOT LESS THAN 2% NOR MORE THAN 20%. 2 INCHES

SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES 1 INCH 85 - 100 1/4 INCH 65 - 100 NO. 200 20 - 80

THE CONTRACTOR MAY AMEND NATURAL TOPSOIL WITH APPROVED MATERIALS AND BY APPROVED METHODS TO MEET THE ABOVE SPECIFICATIONS.

J. DRAINAGE AGGREGATE: SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES 3/4 INCH 90 - 100 3/8 INCH 20 - 55 NO. 100 0 - 10 0 -5 AGGREGATE FOR EROSION SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES PREVENTION AND 4 INCH 80 - 100 SEDIMENT CONTROL 3 INCH 40 - 60

2 INCH 0 - 20 L. DENSE GRADED CRUSHED SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES STONE FOR SUBBASE 3 1/2 INCH 3 INCH 2 INCH 1 INCH 50 - 80 1/2" INCH 30 - 60

15 - 40

0 - 6

0 - 10

0 - 5

SIEVE DESIGNATION PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES 2" CRUSHED STONE 3 INCH 2 INCH 75 - 100

NO. 4

1 INCH

1/4" INCH

GINEERING NTURES PC EN N CENTER RICHMOND TOWN Details

EV Project #

Checked By

Stamp

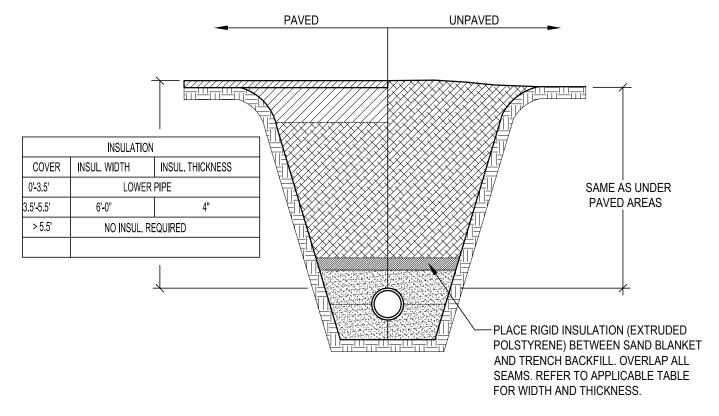
1. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR THE FULL LENGTH OF PIPE. 2. PROVIDE 6' MINIMUM COVER OVER WATER PIPE.

3. INSTALL WATER PIPE IN ACCORDANCE WITH AWWA STANDARD C600.

4. COMPACT SOILS IN ACCORDANCE WITH SPECIFICATION 5. BACKFILL SHALL BE OF A SUITABLE NATIVE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER OR OTHER UNSTABLE MATERIAL SHALL NOT BE USED FOR BACKFILL.

TYPICAL WATER TRENCH DETAIL

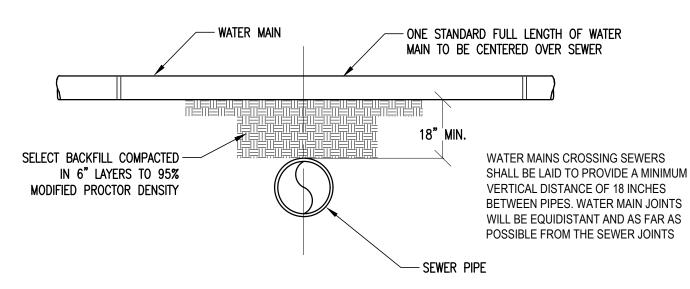
SCALE: NONE



TRENCH NOTES:

1. REFER TO APPLICABLE TRENCH DETAIL FOR SPECIFIC BACKFILL INFORMATION.

INSULATION OVER SHALLOW WATER LINE DETAIL



WATER MAIN ABOVE SEWER

WATER MAIN RELATIONS TO SEWER SHALL BE IN ACCORDANCE WITH THE "RECOMMENDED STANDARDS FOR WATER WORKS"

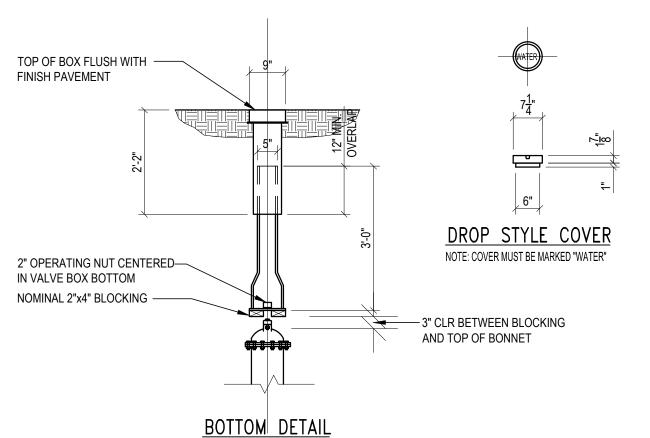
2. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IF THIS DISTANCE CANNOT BE OBTAINED, THEN THE PIPES SHALL BE INSTALLED IN A SEPARATE

TRENCH AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WHEN IT IS IMPOSSIBLE TO MAINTAIN 18" VERTICAL SEPARATION OR WHERE THE SEWER MUST BE LAID ABOVE THE WATER MAIN; 1 THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AS POSSIBLE FROM WATER JOINTS; 2) THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICH EVER IS GREATER; 3) THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 psi FOR 15

SANITARY SEWER/WATER LINE CROSSING

MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS.

SCALE: NONE



VALVE BOX NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TECHNICAL

2. ALL PIPES SHOULD HAVE A MINIMUM DEPTH OF 5.5' FROM TOP OF PIPE TO FINISH GRADE.

3. ALL GATE VALVES SHALL BE OPEN RIGHT.

TYPICAL VALVE BOX DETAIL

WATER NOTES

1. PERFORM A HYDROSTATIC AND LEAKAGE TEST ACCORDING TO AWWA C600(LATEST

REVISION) ON EACH PIPE LINE. THE ENGINEER SHALL BE GIVEN AT LEAST 48 HOURS NOTICE BEFORE THE TEST IS

CONDUCTED. TEST MUST BE WITNESSED BY THE ENGINEER

SPECIFIED TEST PRESSURE IS A MINIMUM OF 200 PSI OR 1.5X THE WORKING PRESSURE, WHICHEVER IS GREATER, AND PRESSURE DURING TEST SHALL NOT VARY BY MORE THAN 5 PSI. SEE THE CURRENT EDITION OF AWWA C600 FOR ALLOWABLE LEAKAGE.

EXISTING UTILITIES LOCATION OF UTILITY INSTALLATIONS AND UNDERGROUND STRUCTURES ARE SHOWN AS

APPROXIMATE ON THE CONTRACT DOCUMENTS SOME UTILITIES MAY NOT BE SHOWN. ALL UTILITIES SHALL BE LOCATED BY THE CONTRACTOR PRIOR TO BEGINNING

CONSTRUCTION. EXISTING UTILITIES SHALL BE PROTECTED AND SUPPORTED DURING CONSTRUCTION.

ALL WATER, GAS, CABLE, TELEPHONE, ELECTRIC, SEWER, AND OTHER UTILITIES FOUND TO INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED IN A MANNER ACCEPTABLE TO THE ENGINEER, PRIOR TO COMMENCING DEMOLITION.

1. SAND BLANKET/BEDDING SHALL MEET REQUIREMENTS OF EARTHWORK SPECIFICATIONS TRENCH FINAL BACKFILL MATERIAL - MATERIAL WILL EXCLUDE PIECES OF PAVEMENT, ORGANIC MATTER, TOPSOIL, ALL WET OR SOFT MUCK, PEAT, CLAY, LARGE ROCKS(GREATER THAN 12" DIMENSION), OR ANY MATERIAL DETERMINED BY THE ENGINEER THAT WILL NOT BE

PIPE TRENCH BACKFILL

1. MEET EARTHWORK SPECIFICATIONS FOR PLACEMENT AND COMPACTION. DUCTILE IRON PIPE (WATER)

1. D.I. PIPE CONFORM TO AWWA/ANSI C151.

2. LININGS AND LINING REPAIR TO AWWA/ANSI C104.

3. JOINTS CONFORM TO AWWA/ANSI C 111 AND C115.

4. FITTINGS CONFORM TO AWWA/ANSI C110, C153, C105

KEEP INSIDE OF PIPE CLEAN AND FREE OF DEBRIS. 6. REJECT ANY PIPE WHICH IS DROPPED DURING HANDLING.

7. MECHANICAL JOINT GLANDS SHALL BE "MEGA-LUG" RETAINER GLANDS. 8. DUCTILE IRON FITTINGS: ANSI A21.10, 350 PSI PRESSURE RATING.

9. JOINTS: MECHANICAL, PUSH-ON, AND FLANGED: A. RUBBER GASKET JOINT, ANSI A21.11

10. GASKETS: A: MECHANICAL AND PUSH-ON JOINTS: ANSI A21.11

B. FLANGED JOINT: $\frac{1}{8}$ " THICK RING OR FULL FACED RUBBER, ANSI A21.15. 11. BOLTS/NUTS

A. MECHANICAL JOINT: ANSI A21.11 B. FLANGED JOINT: ANSI A21.15

12. LININGS:

A. INTERIOR- CEMENT LINED, DOUBLE THICKNESS BITUMINOUS SEAL

B. EXTERIOR-BITUMINOUS COATING APPROX. 1 MIL THICK, ANSI A21.51, ANSI A21.15, AND ANSI

C. FLANGE MACHINED FACE COATING: ANSI A21.15.

LAYING PIPE A. PIPE SHALL BE LAID WITH BELL ENDS FACING IN THE DIRECTION OF LAYING.

B. WHERE PIPE IS LAID ON A SLOPE OF 5% OR MORE, THE LAYING SHALL START AT THE LOW

END AND PROCEED UPHILL, WITH THE BELL ENDS UPGRADE. C. A WATERTIGHT PLUG SHALL BE PLACED IN THE OPEN ENDS OF INSTALLED PIPE WHEN

PIPE LAYING IS NOT IN PROGRESS.

D. MAX. PERMISSIBLE DEFLECTION IS 75% OF AWWA SPEC. C600.

CHLORINATION OF DOMESTIC WATER LINES 1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF

BEGINNING ANY DISINFECTION OF WATER MAINS

2. CONTRACTOR SHALL BE RESPONSIBLE FOR BACTERIOLOGICAL TESTING AS REQUIRED BY THIS SPECIFICATION AND REFERENCE STANDARDS MENTIONED.

3. DISINFECT ALL NEW PIPELINE SYSTEMS IN ACCORDANCE WITH AWWA C651, INCLUDING:

A. METHOD OF CHLORINE APPLICATION. USE CONTINUOUS FEED METHOD OR SLUG

METHOD (TABLET METHOD IS NOT ACCEPTABLE). B. FORM OF CHLORINE UTILIZED.

C. FINAL FLUSHING.

D. BACTERIOLOGICAL TESTING E. REPETITION OF PROCEDURE

GATE VALVES

1. RESILIENT SEAT GATE VALVES BY KENNEDY "KEN-SEAL" OR EQUAL. 2. IRON BODY GATE VALVES TO MEET AWWA C-509-87.

3. STEM CONSTRUCTION: NON-RISING.

4. STEM SEALS: DOUBLE O-RING. 5. GATE: CAST IRON RESILIENT WEDGE WITH SYNTHETIC ELASTOMER COATING, AND SHALL BE

EPOXY COATED (FUSION BONDED) INSIDE AND OUT. 6. BONNET HARDWARE SHALL MEET ASTM A307, CADMIUM PLATED.

7. OUTLET CONNECTION: STANDARD MECHANICAL JOINT

8. OPERATION: OPEN COUNTERCLOCKWISE.

TAPPING VALVES

TAPPING VALVES TO MEET ANSI/AWWA C509-87, STANDARD FOR RESILIENT SEATED GATE VALVES.

VALVES SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. VALVES SHALL OPEN COUNTERCLOCKWISE

INLET FLANGES SHALL BE CLASS 125, ANSI B16.1, OR ANSI/AWWA C110/A21.10. OUTLET CONNECTION: STANDARDIZED MECHANICAL JOINT.

STEM SEALS: O RING.

STEM CONSTRUCTION: NON-RISING.

SEATING: PARALLEL SEAT END CONNECTIONS: MECHANICAL ON RUN, FLANGED ON BRANCH.

BURIED TAPPING VALVES SHALL BE PROVIDED WITH A 2 INCH SQUARE WRENCH NUT AND CAST IRON VALVE BOX. IF DEPTH FROM GRADE TO TOP OF VALVE OPERATING NUT IS GREATER THAN 6'-0, A VALVE STEM RISER MADE OF HIGH STRENGTH STEEL SHALL BE PROVIDED. DEPTH FROM VALVE STEM RISER NUT TO GRADE WILL BE 4 TO 6 FEET.

TAPPING SLEEVES AWWA C509, LATEST REVISION.

AWWA C207, CLASS D, MAX. WORKING PRESSURE OF 150 PSI.

SLEEVES: SPLIT SLEEVES OF CAST IRON OR DUCTILE IRON. MECHANICAL JOINT ENDS WITH END AND GASKET SEALS.

BOLTS AND NUTS, MECHANICAL JOINTS: HIGH STRENGTH CAST IRON OR HIGH STRENGTH LOW

ALLOY STEEL, ANSI/AWWA C111/A21.11-90. 6. BOLTS AND NUTS, FLANGED JOINTS: HIGH STRENGTH, LOW CARBON STEEL CONFORMING TO

ANSI/AWWA C110/A21.10-87, APPENDIX COAT ALL NUTS AND BOLTS WITH A RUST RESISTANT LUBRICANT.

8. ALL BOLTS AND NUTS USED WITH PIPE SLEEVES SHALL BE BRUSH COATED HEAVILY AFTER FINAL TIGHTENING WITH BITUMASTIC COLD-APPLIED MATERIAL TO THOROUGHLY COVER ALL EXPOSED SURFACES OF BOLTS AND NUTS.

VALVE BOXES

1. ACCEPTABLE MANUFACTURER'S: MUELLER, CLOW, OR EQUAL. CLOW F-2452 SLIDING TYPE, TWO PIECE, OR EQUAL

3. $5\frac{1}{4}$ INCH SHAFT 4. SIZE 664-A (40-60 INCH OVERALL LENGTH).

CAST IRON.

6. CLOW F-2490 LIDS OR EQUAL. 7. THE WORD "WATER" TO BE CAST INTO TOP OF COVERS, AND ARROW SHOWING DIRECTION OF

CONCRETE

CONCRETE SHALL HAVE:

A. MIN. COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS

B. AIR ENTRAINMENT OF 4% TO 6% BY VOLUME.

C. WATER CEMENT RATIO OF 0.49 LBS. WATER/CEMENT.

D. SLUMP OF 2 TO 4 INCHES. 2. CONCRETE SHALL NOT BE PLACED WHEN AMBIENT TEMPERATURE IS BELOW 40 DEGREES

FAHRENHEIT OR MORE THAN 90 DEGREES FAHRENHEIT.

3. CONCRETE SHALL NOT BE DROPPED MORE THAN SIX FEET INSIDE A FORM. 4. MAINTAIN TEMPERATURE OF CONCRETE SURFACE AT MINIMUM 50 DEGREES FAHRENHEIT FOR 72

HOURS AFTER PLACING CONCRETE. PREHEAT ALL ENCLOSURES FOR A MINIMUM OF 2 HOURS TO PROVIDE A MIN. SURFACE TEMPERATURE OF 45 DEGREES FAHRENHEIT.

5. ALLOW TO SET AND CURE ALL THRUST BLOCKS, CONCRETE SUPPORTS, AND ANCHORS A MINIMUM OF 24 HOURS BEFORE BACKFILLING. 6. COMPLETELY CURE AND SET CONCRETE BEFORE ANY HYDROSTATIC OR LEAKAGE TESTING OF

7. NONSHRINK GROUT SHALL BE HALCO TRADEMARK, AS MANUFACTURED BY LEHN & FINK INDUSTRIAL

8. DO NOT PLACE ANY MORTAR OR GROUT WHEN AMBIENT TEMPERATURE IS BELOW 40 DEGREES

9. MORTAR FOR MANHOLES SHALL CONSIST OF THE FOLLOWING:

A. CEMENT-TYPE II, ASTM C150. B. HYDRATED LIME-TYPE N, ASTM C207.

C. SAND- ASTM C 33, FINE AGGREGATES FOR CONCRETE.

D. WATER-CLEAN, SUITABLE FOR DRINKING. 10. MIX(BY VOLUME): 1 PART CEMENT, $\frac{1}{2}$ PART LIME, $4\frac{1}{2}$ PARTS SAND.

1. CONTRACTOR SHALL NOTIFY BURLINGTON DEPARTMENT OF PUBLIC WORKS AT LEAST 48 HOURS

BEFORE BEGINNING WATER LINE WORK.. 2. "AS BUILT" DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AT THE TIME OF COMPLETION OF N N N N

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-UNDISTURBED MATERIAL 1. UNLESS OTHERWISE NOTED, ASSUME CLASS "C" SOILS. PERFORM ALL EXCAVATIONS TO OSHA

SANITARY SEWER TRENCH NOTES:

ID + 24"

2. BEDDING TO PROVIDE A FIRM, STABLE, CONTINUOUS AND UNIFORM SUPPORT FOR FULL LENGTH OF PIPE. 3. FOR BUILDING SEWERS THE MINIMUM DEPTH TO THE TOP OF THE PIPE SHALL BE 4'-0". WHERE BUILDING SEWERS ARE TO BE INSTALLED AT A DEPTH LESS THAN 3'-0" UNDER DRIVEWAYS, EXTRA HEAVY CAST IRON OR OTHER HIGH STRENGTH PIPE SHALL BE USED. OTHERWISE, REFER TO INSULATION OVER SHALLOW SEWER

LINE DETAIL. 4. FOR SEWER COLLECTION SYSTEMS THE MINIMUM DEPTH TO THE TOP OF THE PIPE SHALL BE 5'-0". THIS DEPTH SHALL BE INCREASED TO 6'-0" IN AREAS TO BE PLOWED DURING THE WINTER MONTHS. OTHERWISE,

REFER TO INSULATION OVER SHALLOW SEWER LINE DETAIL. 5. BACKFILL SHALL BE OF A SUITABLE NATIVE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER OR OTHER UNSTABLE MATERIAL SHALL NOT BE USED FOR BACKFILL

6. LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF FOUR INCHES BELOW AND ON EACH SIDE OF ALL PIPES. 7. SEWERS ON 20 PERCENT SLOPES OR GREATER SHALL BE ANCHORED SECURELY WITH CONCRETE

ANCHORS OR EQUIVALENT, SPACED AS FOLLOWS: A. NOT OVER 36 FEET CENTER TO CENTER ON GRADES 20 PERCENT AND UP TO 35 PERCENT

B. NOT OVER 24 FEET CENTER TO CENTER ON GRADES 35 PERCENT AND UP TO 50 PERCENT C. NOT OVER 16 FEET CENTER TO CENTER ON GRADES 50 PERCENT AND OVER



- IF UNSUITABLE MATERIAL IS ENCOUNTERED

NOTIFY THE ENGINEER. SEE NOTES 5 AND 6.

SCALE: NONE

PAVED UNPAVED INSULATION IN PAVED AREAS: INSULATION IN UNPAVED AREAS: COVER INSUL. WIDTH INSUL. THICKNESS COVER INSUL. WIDTH INSUL. THICKNESS LOWER DRAIN 6'-0" 6'-0" 4'-0" 4'-0" NO INSUL. REQUIRED NO INSUL. REQUIRED — PLACE RIGID INSULATION (EXTRUDED POLSTYRENE) BETWEEN SAND BLANKET AND TRENCH BACKFILL. OVERLAP ALL

1. REFER TO APPLICABLE TRENCH DETAIL FOR SPECIFIC BACKFILL INFORMATION.

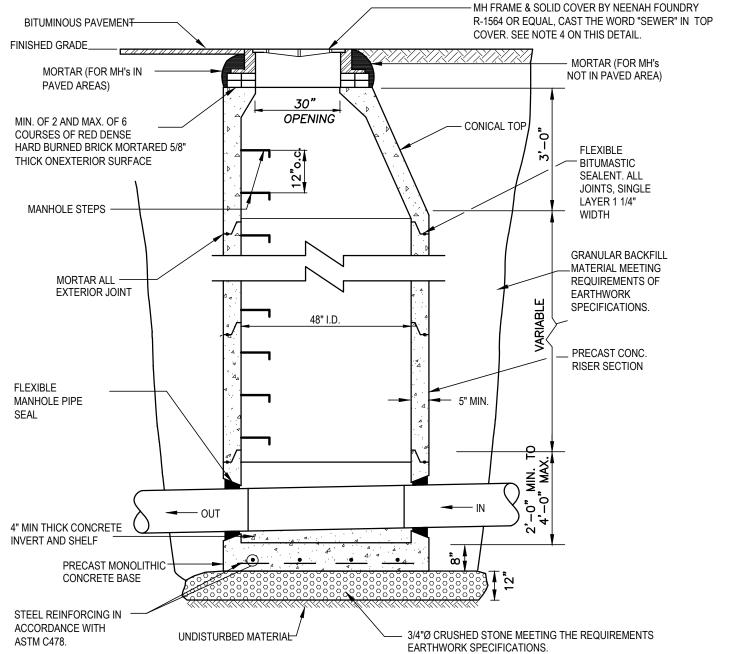
TRENCH NOTES:

2. RIGID EXTRUDED POLYSTYRENE INSULATION SHALL CONFORM WITH ASTM C578 -STANDARD SPECIFICATION FOR RIGID CELLULAR POLYSTYRENE THERMAL INSULATION AND SHALL BE DOW STYROFOAM HIGH LOAD 40 OR EQUIVALENT.

INSULATION OVER SHALLOW SEWER LINE DETAIL

SEAMS. REFER TO APPLICABLE TABLE

FOR WIDTH AND THICKNESS.

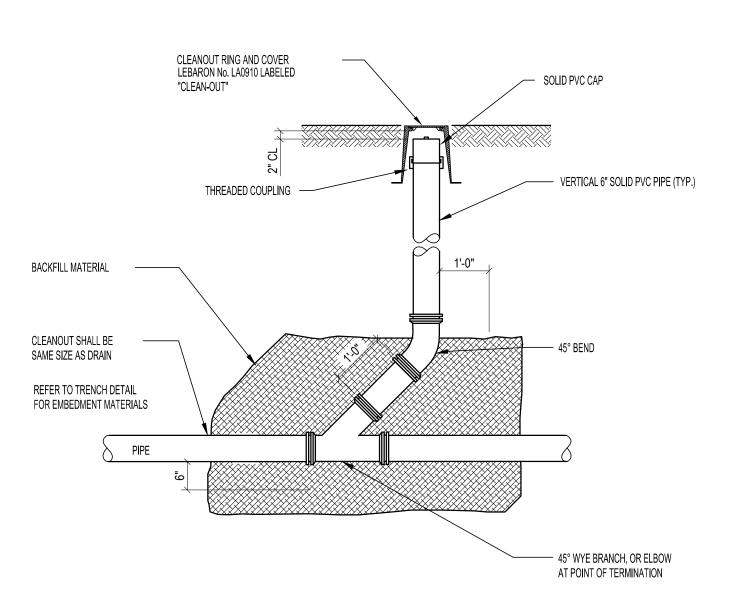


1. PROVIDE SMOOTH SWEEPING TRANSITIONS BETWEEN INVERTS OF INTERSECTING PIPE.

2. IF DEPTH OF MANHOLE IS 7 ft. OR LESS FROM RIM TO CENTERLINE INVERT, THEN A FLAT TOP WILL BE INSTALLED. IF DEPTH OF MANHOLE FROM RIM TO CENTERLINE INVERT IS MORE THAN 7 ft., THEN A CONICAL TOP WILL BE INSTALLED.

3. MANHOLE AND COVER SHALL BE DESIGNED FOR H20 LOADING.

4. FOR MANHIOLES THAT ARE NOTED ON THE PLAN AS HAVING A BOLTABLE COVER PROVIDE A COVER THAT IS BOLTS TO THE FRAME WITH A MINIMUM OF (2) - 3/8" STAINLESS STEEL BOLTS.



SEWER CLEANOUT DETAIL

SEWER NOTES

CONTRACTOR SHALL CONFORM TO GUIDELINES DETAILED IN THE VERMONT STATE SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR READING AND FOLLOWING THE FULL COMPLETE EDITION PROVIDED BY THE

A. THE BUILDING SEWER SHALL BE CONSTRUCTED IN A MANNER WHICH WILL PREVENT LEAKING, BREAKING OR

B. SIZING AND SLOPE: MINIMUM BUILDING SEWER SIZE IS 4 INCHES (UNLESS SHOWN ON THE PLAN) AND A MINIMUM SLOPE IS 1/8" PER FOOT.

C. CLEANOUTS: CLEANOUTS SHALL BE PROVIDED AT EACH HORIZONTAL CHANGE IN DIRECTION OF THE BUILDING SEWER GREATER THAN 45 DEGREES AND WHERE INDICATED ON THE DESIGN DRAWINGS. BUILDING SEWER CHANGES IN DIRECTION WHICH EXCEED 45 DEGREES SHOULD BE MADE WITH TWO 45 DEGREE ELLS OR LONG SWEEP FITTINGS. MANHOLES ARE ACCEPTABLE IN LIEU OF CLEANOUTS. WHERE BUILDING SEWERS ARE TO BE INSTALLED AT A DEPTH OF LESS THAN 3 FEET UNDER DRIVEWAYS ARE ANTICIPATED, EXTRA HEAVY CAST IRON PIPE SHALL BE USED.

D. LEAKAGE: BUILDING SEWERS SHALL MEET THE LEAKAGE STANDARDS PRESCRIBED IN THE STATE OF VERMONT SPECIFICATIONS (EPR- CHAPTER 1). SEE BELOW FOR MORE DETAIL.

E. SLOPE, VELOCITY: ALL GRAVITY SEWER LINES SHALL BE INSTALLED WITH NOT LESS THAN THE SLOPES SHOWN BELOW:

F. CHANGES IN PIPE SIZE: WHEN A SMALLER SEWER JOINS A LARGE ONE, THE INVERT OF THE LARGER SEWER SHALL BE LOWERED SUFFICIENTLY TO MAINTAIN THE SAME ENERGY GRADIENT.

G. MATERIAL: PVC SDR 35, ASTM D3034, WITH PUSH-ON GASKETED JOINTS. GASKETS SHALL CONFORM TO ASTM D3212. SEWER JOINTS SHALL BE CONSTRUCTED TO MINIMIZE INFILTRATION AND TO PREVENT THE ENTRANCE OF ROOTS INTO THE SYSTEM.

H. TRENCHING: LEDGE, ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF FOUR INCHES BELOW AND ON EACH SIDE OF ALL PIPES.

I. BEDDING: SEE TRENCH DETAIL DRAWING FOR MATERIALS. TRENCH BACKFILL SHALL BE OF A SUITABLE NATIVE MATERIAL FREE FROM DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS.

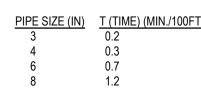
J. LEAKAGE TESTS: UPON COMPLETION OF SEWER LINE CONSTRUCTION, THE SEWER LINE SHALL BE TESTED IN ACCORDANCE WITH THE STATE OF VERMONT SPECIFICATIONS (EPR - CHAPTER 1, APPENDIX "A").

LEAKAGE TESTS FOR GRAVITY SEWERS

PERFORM A PRESSURIZED AIR TEST ON THE GRAVITY LINE IN ACCORDANCE WITH THE VERMONT ENVIRONMENTAL PROTECTION RULES ON EACH SECTION OF THE GRAVITY SEWER. THE ENGINEER SHALL BE GIVEN 72 HOURS NOTICE BEFORE THE TEST IS CONDUCTED. TEST MUST BE WITNESSED BY THE ENGINEER.

PLUG ALL OPENINGS IN THE TEST SECTION. ADD AIR UNTIL THE INTERNAL PRESSURE OF THE LINE IS RAISED TO APPROXIMATELY 4.0 POUNDS/SQUARE INCH (PSI) GREATER THAN THE AVERAGE PRESSURE OF ANY GROUND WATER. AFTER THIS PRESSURE IS REACHED, ALLOW THE PRESSURE TO STABILIZE. THE PRESSURE WILL NORMALLY DROP AS THE AIR TEMPERATURE STABILIZES. THIS USUALLY TAKES 2 TO 5 MINUTES DEPENDING ON THE PIPE SIZE. THE PRESSURE MAY BE REDUCED TO 3.5 PSI BEFORE STARTING THE TEST.

WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE THE STARTING TEST PRESSURE OF 3.5 PSI ABOVE THE PIPE, START THE TEST. IF THE PRESSURE DROPS MORE THAN 1.0 PSI DURING THE TEST TIME, THE LINE IS PRESUMED. TO HAVE FAILED THE TEST. IF A 1.0 PSI DROP DOES NOT OCCUR WITHIN THE TEST TIME, THE LINE HAS PASSED THE TEST. THE TEST TIME SHALL BE DERIVED FROM THE FOLLOWING TABLE. IF THE SECTION OF LINE TO BE TESTED INCLUDES MORE THAN ONE PIPE SIZE, CALCULATE THE TEST TIME FOR EACH SIZE AND ADD THE TEST TIMES TO ARRIVE AT THE TOTAL TEST TIME FOR THE SECTION.



K. INSTALLATION: PIPE SHALL BE LAID WITH BELL ENDS FACING UPGRADE AND LAYING SHALL START AT THE

L. WATER LINE SEPARATION

a. HORIZONTAL SEPARATION: SEWERS SHALL BE LAID FLAT AT LEAST TEN FEET HORIZONTALLY FROM ANY

EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

WHERE IMPOSSIBLE OR IMPRACTICABLE TO MAINTAIN THE TEN FOOT SEWER/WATER PIPE HORIZONTAL SEPARATION. (DUE TO LEDGE, BOULDERS OR OTHER UNUSUAL CONDITIONS) THE WATER LINE MAY BE IN A SEPARATE TRENCH OR ON AN EARTH SHELF IN THE SEWER TRENCH PROVIDED THAT THE BOTTOM OF THE WATER LINE IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WHEREVER IMPOSSIBLE OR IMPRACTICAL TO MAINTAIN THE 18 INCH VERTICAL SEPARATION, THE SEWER LINE SHALL BE CONSTRUCTED USING PRESSURE PIPE TO NORMAL WATER LINE STANDARDS AND PRESSURE TESTED TO 50 PSI FOR 15 MINUTE PRIOR TO BACKFILLING.

c. CROSSINGS: SEWERS CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18 INCHES VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER AND THE OUTSIDE OF THE WATER MAIN. WHEN IT IS IMPOSSIBLE TO MAINTAIN THE 18 INCH VERTICAL SEPARATION:

1.) THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AWAY AS POSSIBLE FROM WATER JOINTS; 2.) THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 20 FEET EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER; 3.) THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER

4.) WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

M. MANHOLES

a. DIAMETER: THE MINIMUM DIAMETER OF MANHOLES SHALL BE 48 INCHES; LARGE DIAMETERS ARE PREFERRED FOR CONNECTION TO LARGE DIAMETER SEWERS. A MINIMUM ACCESS DIAMETER OF 24 INCHES SHALL BE PROVIDED. b. FLOW CHANNEL: FLOW CHANNELS SHALL BE PROVIDED IN THE BASE OF ALL MANHOLES AND THE FLOW CHANNEL THROUGH MANHOLES SHOULD BE MADE TO CONFORM IN SHAPE AND SLOPE TO THAT OF THE SEWERS. c. MANHOLES SHALL BE OF THE PRE-CAST CONCRETE OR POUR-IN PLACE CONCRETE TYPE. MANHOLES SHALL BE WATERPROOFED ON THE EXTERIOR.

d. INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A RUBBER-GASKETED FLEXIBLE WATERTIGHT CONNECTION THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL TO TAKE

WATER TESTING PROCEDURES TAKES INTO ACCOUNT THE LEAKAGE FROM ONE MANHOLE IN THE TEST SECTION. OTHERWISE, MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:

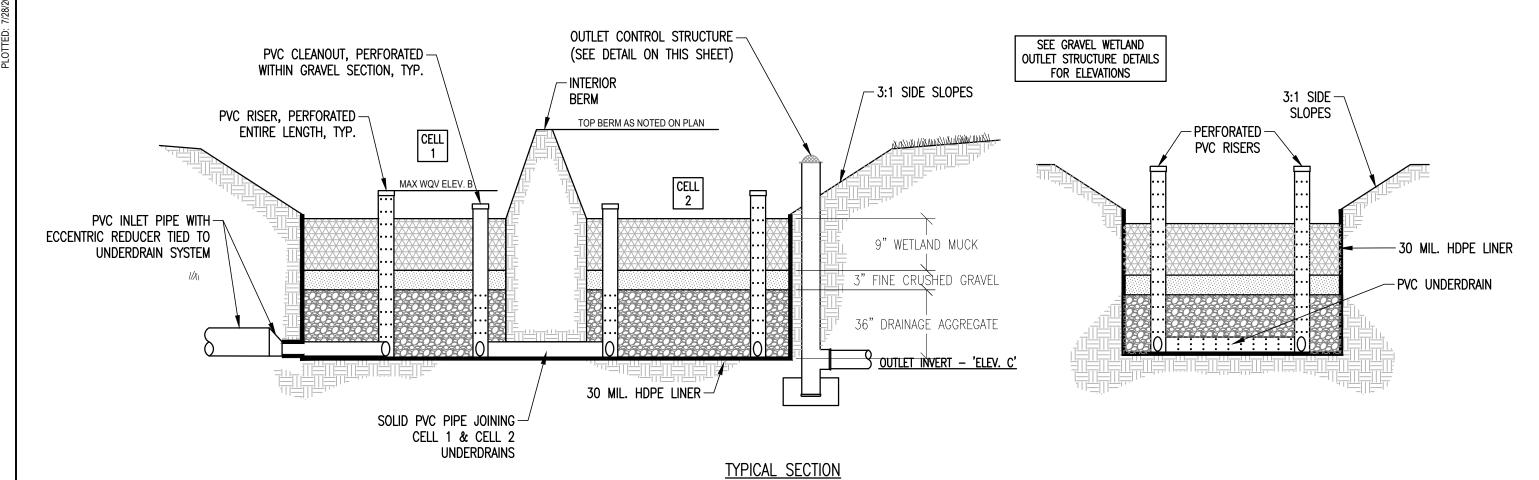
AFTER THE MANHOLE HAS BEEN ASSEMBLED IN PLACE, ALL LIFTING HOLES AND EXTERIOR JOINTS SHALL BE FILLED WITH AND POINTED WITH AN APPROVED NON-SHRINKING MORTAR. ALL PIPES AND OTHER OPENINGS INTO THE MANHOLE SHALL BE SUITABLY PLUGGED AND THE PLUGS PLACED TO PREVENT BLOWOUT.

e. ALL MANHOLES SHALL BE TESTED FOR LEAKAGE. LEAKAGE TESTING OF GRAVITY SEWERS UTILIZING THE

EACH MANHOLE SHALL BE CHECKED FOR INFILTRATION BY FILLING WITH WATER TO THE TOP OF THE CONE SECTION. A STABILIZATION PERIOD OF ONE HOUR SHALL BE PROVIDED TO ALLOW FOR ABSORPTION. AT THE END OF THIS PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE, IF NECESSARY, AND THE MEASURING TIME OF AT LEAST SIX HOURS BEGUN. AT THE END OF THE TEST PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE MEASURING THE VOLUME OF WATER ADDED. THIS AMOUNT SHALL BE CONVERTED TO A 24 HOUR RATE AND THE LEAKAGE DETERMINED ON THE BASIS OF DEPTH. THE LEAKAGE FOR EACH MANHOLE SHALL NOT EXCEED ONE GALLON PER VERTICAL FOOT FOR A 24 HOUR PERIOD FOR EXFILTRATION AND THERE SHALL BE NO VISIBLE INFILTRATION. IF AN AIR TEST IF PERFORMED ON THE MANHOLE, INSTEAD OF THE WATER TEST, THE MANHOLE SHALL REMAIN UN-BACKFILLED DOWN TO THE SEWER LINE INVERTS DURING THE AIR TEST.

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1. FOR TREATMENT AREA ELEVATIONS, REFER TO GRAVEL WETLAND OUTLET STRUCTURE DETAIL ON THIS SHEET.

2. REFER TO LANDSCAPING PLAN FOR PLAN SPECIES, PLANT LOCATIONS. SOURCES OF PLANT MATERIAL AND ANY REQUIRED SOIL AMENDMENTS. 3. NO WOODY VEGETATION GREATER THAN 2-INCHES IN DIAMETER SHALL BE PLANTED OR ALLOWED TO GROW ON THE DAM, WITHIN 15-FEET OF THE DAM OR THE TOE OF EMBANKMENT, OR WITHIN 25-FEET OF A PRINCIPAL SPILLWAY OUTLET.

GRAVEL WETLAND SOIL SPECIFICATION 1. WETLAND SOIL SHALL BE FINE-GRAINED, WORKABLE SOIL, FREE OF REFUSE, ROOTS, STONES, BRUSH, WEEDS, HAZARDOUS WASTES, OR OTHER MATERIAL THAT WOULD BE DETRIMENTAL TO THE PROPER DEVELOPMENT OF PLANT GROWTH. THIS MATERIAL IS TO BE BLENDED FROM GRANULAR AND ORGANIC MATERIALS AS INDICATED BELOW. WETLAND SOIL SHALL MEET THE REQUIREMENTS AS INDICATED BELOW. ANY BLENDED MATERIAL THAT IS STOCKPILED ON SITE SHALL BE LOCATED HIGH AND DRY. PROTECTED FROM PRECIPITATION, AND PREVENTED FROM MINGLING WITH STORMWATER RUNOFF. THE PROPOSED PARTICLE SIZE DISTRIBUTION (PSD) FOR WETLAND SOIL IS PROVIDED BELOW AND REFLECTS A POORLY DRAINED SOIL WITH A MEDIAN PARTICLE SIZE (D50) OF 0.15 MM AND IS A CLAY OR SILT LOAM IN THE USDA SOIL TEXTURAL

TRIANGLE. THIS WILL ALLOW FOR POTENTIAL TO EMPLOY APPROPRIATE ONSITE EXCAVATED MATERIALS INTO SELECT SOIL MIXES. ONSITE MATERIALS SHOULD BE EVALUATED BY THE ENGINEER TO ENSURE

FOLLOWING GRADATION:

NO. 100

NO. 200

COMPOSTED LEAF MULCH.

GREATER THAN 7.0.

B. THE ORGANIC PORTION SHALL CONSTITUTE 15%-20% OF THE

MIXTURE, AND BE COMPRISED OF WELL PULVERIZED AND

C. THE SURFACE INFILTRATION RATES OF THE GRAVEL WETLAND SOIL

SOIL $(0.1-0.01 \text{ FT/DAY} = 3.5 \times 10 - 5 \text{ CM/SEC TO } 3.5 \times 10 - 6$

AS DETERMINED BY A 1:2 (BY VOLUME) SOIL TO WATER MIX.

E. THE pH OF THE WETLAND SOIL SHALL BE NOT LESS THAN 6.0 OR

SALINITY TEST SAMPLES SHALL NOT BE OVEN DRIED.

D. SALINITY (ELECTRICAL CONDUCTIVITY) SHALL BE LESS THAN 0.1 S/m

SHOULD BE SIMILAR TO A LOW HYDRAULIC CONDUCTIVITY WETLAND

PERCENT PASSING BY WEIGHT

100 ±10.0

90-75 ±5.0

40-50 ±5.0

25-35 ±5.0

2. THE PLACEMENT OF WETLAND SOIL SHALL OCCUR SUCH THAT THE WETLAND PLANTINGS CAN BE INSTALLED IMMEDIATELY THEREAFTER. OR AS SOON AS PRACTICABLE, AS APPROVED BY THE ENGINEER AND LANDSCAPE

3. WETLAND SOIL IN AN UNWORKABLE CONDITION DUE TO EXCESSIVE MOISTURE, FROST OR OTHER CONDITIONS SHALL NOT BE PLACED UNTIL IT IS SUITABLE FOR SPREADING. WETLAND SOIL SHALL BE PLACED ON THE DESIGNATED AREA AND SPREAD TO THE SPECIFIED THICKNESS. AFTER THE WETLAND SOIL IS SPREAD, ALL LARGE STIFF CLODS, ROCKS, ROOTS AND OTHER FOREIGN MATTER SHALL BE CLEARED AND DISPOSED OF BY THE CONTRACTOR SO THAT THE FINISHED SURFACE IS READY FOR PLANTING.

A. GRANULAR SOIL SHALL BE GUARANTEED CLEAN FILL MATERIAL OBTAINED FROM A COMMERCIAL SAND AND GRAVEL PIT, NOT ORIGINATING FROM RECONSTITUTED OR RECYCLED PAVEMENT MATERIALS. THE GRANULAR SOIL PORTION SHALL CONSTITUTE 80% - 85% OF THE MIXTURE BY VOLUME, AND SHALL HAVE THE

GRAVEL WETLAND SOIL PHOSPHORUS TESTING REQUIREMENTS WETLAND MUCK FINAL MIXES MUST HAVE A PHOSPHORUS SATURATION RATIO (PSR) LESS THAN OR EQUAL TO 0.10. PSR IS TO BE DETERMINED USING THE FOLLOWING PROTOCOL: 1.1. SAMPLES ARE TO BE AIR DRIED AND SIEVED THROUGH 2

MM PRIOR TO TESTING 1.2. AIR-DRIED, SIEVED SOIL SAMPLES ARE TO THEN BE EXTRACTED WITH THE MEHLICH-3 SOLUTION (0.2M CH3COOH + 0.25 M NH4NO3 + 0.015 M NH4F + 0.0.013 M HN03 + 0.001 M EDTA) BY SHAKING A SOIL-SOLUTION SUSPENSION FOR 5 MINUTES AT A 1:10 RATIO (SOIL MASS IN GRAMS: SOLUTION VOLUME IN ML), FOLLOWED BY FILTERING TO REMOVE PARTICLES (PORE SIZE OF 2 MM IS RECOMMENDED, MAX PORE SIZE = 8

1.3. EXTRACTS FROM THE MEHLICH—3 PROCEDURE ARE TO BE ANALYZED FOR P. FE. AND AL BY ICP-OES. THE PHOSPHORUS SATURATION RATIO (PSR) IS THEN CALCULATED AS FOLLOWS:

 $PSR = (P_{M3}/31) / [(Fe_{M3}/56) + (Al_{M3}/27)]$ WHERE,

 P_{M3} = MEHLICH-3 P IN MG P PER KG DRY SOIL Fe_{M3} = MEHLICH-3 Fe IN MG FE PER KG DRY SOIL $A_{M3} = MEHLICH-3$ AI IN MG AL PER KG DRY SOIL

2. MEHLICH-3 EXTRACTIONS FOLLOW THE ABOVE PROTOCOL (FOR MORE DETAILS, SEE WOLF AND BEEGLE, 2009). OTHER SOIL TEST EXTRACTIONS, INCLUDING MODIFIED MORGAN TESTS, OXALATE EXTRACTIONS, WATER EXTRACTIONS, OR EXTRACTIONS USED TO QUANTIFY TOTAL ELEMENTS, ARE NOT

ACCEPTABLE. 4. IN CASES WHERE INGREDIENT MIXING HAS NOT YET OCCURRED, INGREDIENTS CAN BE MIXED AT THE INTENDED VOLUMETRIC PROPORTIONS IN A SMALL BATCH (AT LEAST ONE QUART IN VOLUME) FOR TESTING PURPOSES. IF THIS SMALL BATCH TESTING APPROACH IS TAKEN, THE FINAL MATERIAL TO BE USED DURING INSTALLATION MUST BE RE-TESTED TO CONFIRM ACCEPTABLE PSR.

TYPICAL GRAVEL WETLAND DETAIL

SHALL BE EAST JORDAN IRON WORKS "5520M5 5546ZPT ASSEMBLY" OR APPROVED EQUAL. CONCRETE OR ASPHALT PAVING -MIN. OF 2 AND MAX. OF 6 COURSES OF RED, DENSE, -MANHOLES LESS THAN 6' DEEP SHALL HAVE REINF GRADE MS - HARD BRICK CONC. SLAB COVER IN CONFORMING TO ASTM LIEU OF CONE SECTION C32-13, MORTARED 5/8" THICK ON EXTERIOR SURFACE - PRECAST CONCRETE MANHOLE CONE (ECCENTRIC) MORTAR ALL -36" I.D. MIN. EXTERIOR JOINTS OR AS NOTED ON PLANS PRECAST REINFORCED -TWO (2) COATS OF CONC. RISER SECTION ASPHALT WATER-PROOFING FLEXIBLE BITUMASTIC -APPLIED AT THE FACTORY SEALANT. ALL JOINTS TO BE OVERLAPPING, SEALED FOR PIPE STUB WATER TIGHTNESS USING A 2'-0" MIN. TO DOUBLE ROW OF AN 4'-0" MAX. ELASTOMERIC OR MASTIC-LIKE SEALANT 1 1/4" WIDTH **→** IN OUT - FLEXIBLE RUBBER BOOT (CAST IN PLACE OR FIELD INSTALLED) MONOLITHIC PRECAST REINFORCED CONC. BASE SECTION -3/4" CRUSHED STONE BASE SUITABLE UNDISTURBED MATERIAL -INVERTS TO BE GROUTED #4 BARS 6" O.C. BOTH-ONLY AFTER PASSAGE OF WAYS, BASE AND WALLS LEAKAGE TEST

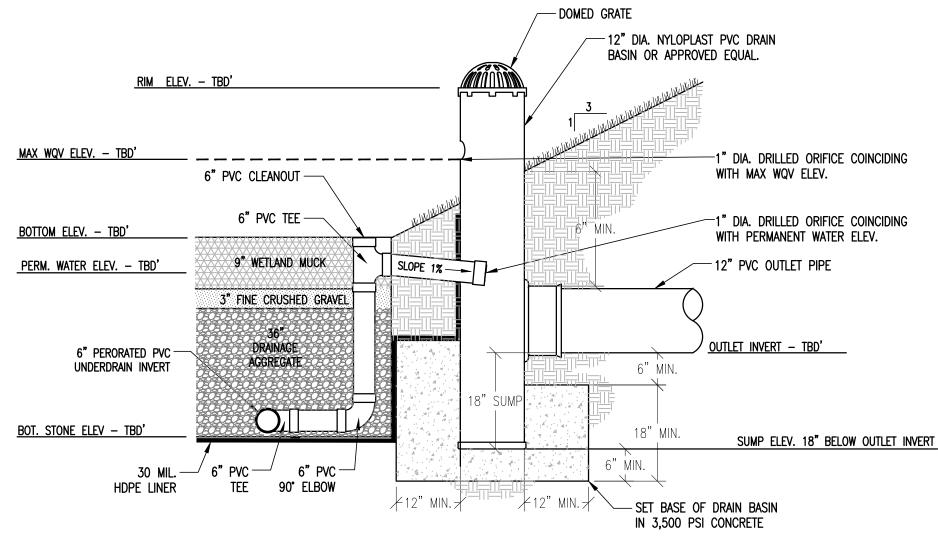
IF DEPTH OF MANHOLE IS 6 FT. OR LESS FROM RIM TO CENTERLINE INVERT, THEN A FLAT TOP WILL BE INSTALLED. IF DEPTH OF MANHOLE FROM RIM TO CENTERLINE INVERT IS MORE THAN 6 FT., THEN AN ECCENTRIC CONICAL TOP WILL

BE INSTALLED. CATCH BASIN AND GRATE SHALL BE DESIGNED FOR H20 LOADING.

PROVIDE A 3 FLANGE GRATE AND FRAME NEXT TO CURBS AND A 4 FLANGE FRAME AND GRATE AT ALL OTHER LOCATIONS.

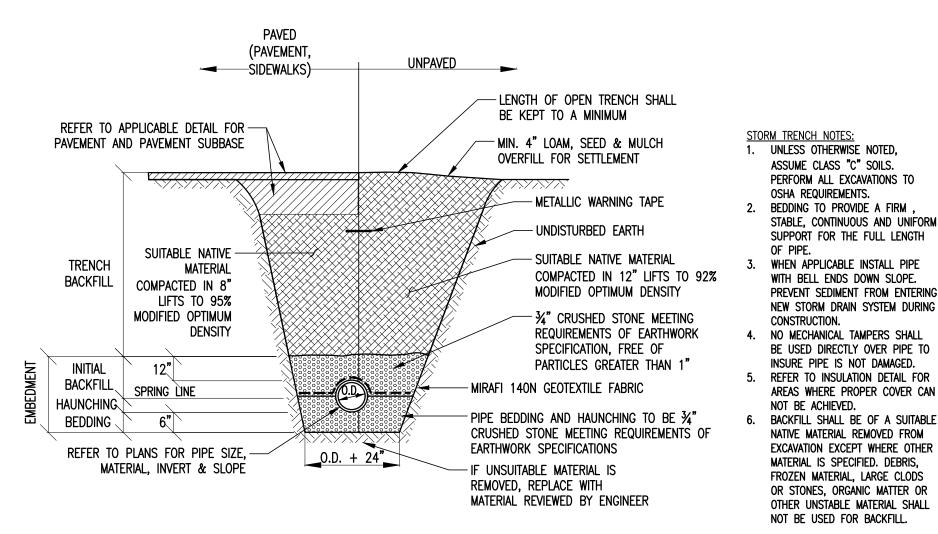


- HEAVY DUTY CB FRAME AND GRATE ASSEMBLY



GRAVEL WETLAND OUTLET STRUCTURE DETAIL

├──12" MIN. ─┤ SEE PLAN -PLACE 18" MIN. (REFER TO PLACE MIRAFI 140N FILTER -PLANS) OF 34" WASHED STONE. FABRIC OR APPROVED EQUIVALENT UNDER PIPE AND UP TO SURFACE. PERFORATED PVC PIPE -SLOPED AT MIN 0.25%, SEE PLAN -PLACE 36 MIL REINFORCED POLYPROPYLENE 12" MIN. OVERLAP GEOMEMBRANE AGAINST WALL AND UNDER WASHED STONE.



TYPICAL STORM DRAIN TRENCH

SCALE: NONE

TOWN Storm RICHMOND EV Project #

Checked By

Details

Stamp

ZW

Own of 203 Bric Richmon (802) 4

CENTER

7/28/2023

SCALE: NONE

TYPICAL DRIP EDGE DETAIL SCALE: NONE

STABILIZED CONSTRUCTION ENTRANCE NOTES:

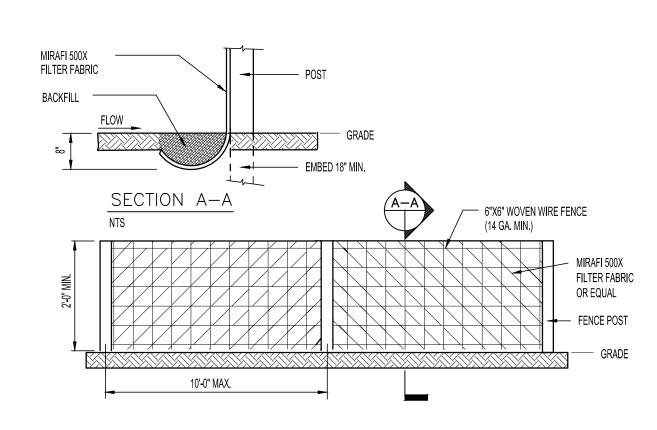
STONE SIZE: USE 1-1/2" CRUSHED STONE.
 SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED

3. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. REPAIR AND/OR CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

4. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
5. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

CONSTRUCTION ENTRANCE DETAIL

SCALE: NONE



SILT FENCE NOTES:

1 SILT FENCE SHALL BE PRE-FABRICATED EROSION CONTROL

1. SILT FENCE SHALL BE PRE-FABRICATED EROSION CONTROL FENCE BY MIRAFI OR EQUAL, OR CONSTRUCTED IN PLACE AS SPECIFIED HEREIN.

2. CONSTRUCTED IN PLACE SILT FENCE:

A. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.

B. FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE TIES SPACED EVERY 24" AT TOP OF MID SECTION.

C. WILEN TWO SECTIONS OF FILTER CLOTH AD JOIN FACH OTHER. THEY SHALL BE OVERLADED BY 6"

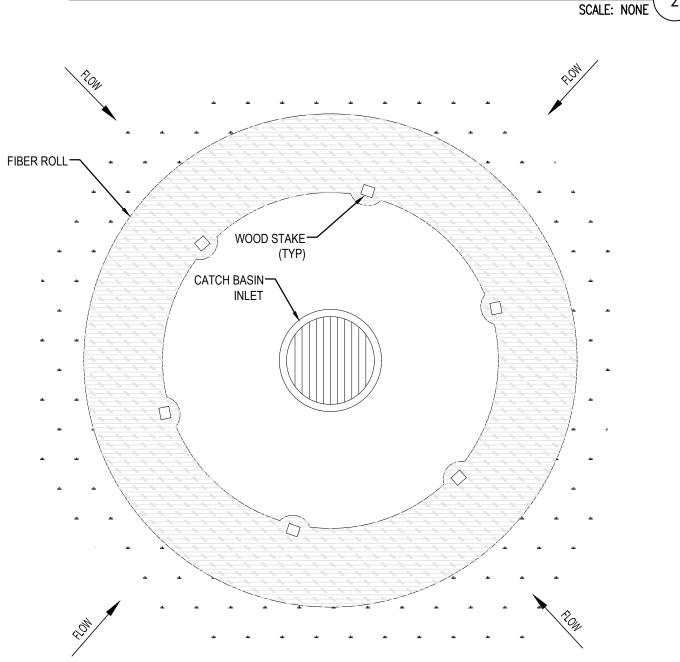
C. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6", FOLDED AND STAPLED.

INSPECTION SHALL BE FREQUENT (MINIMUM ONCE A WEEK AND AFTER EVERY RAINFALL). MAINTENANCE SHALL BE PER-

FORMED AS NEEDED, AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN SILT FENCE.

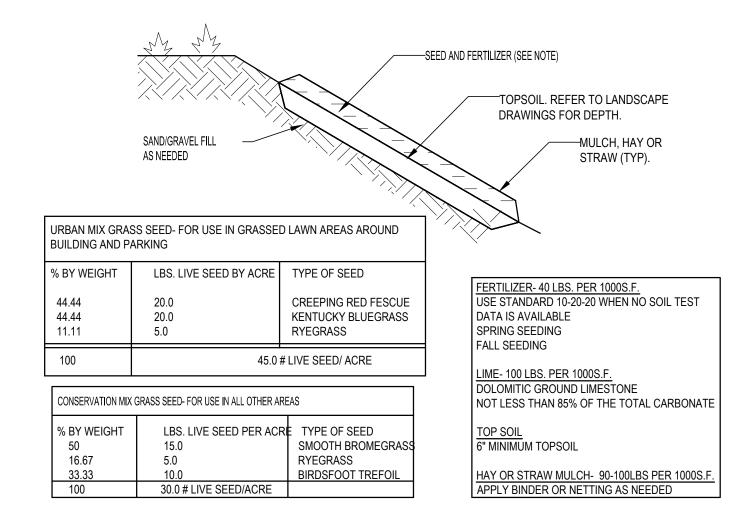
SILT FENCE DETAIL

SCALE: NONE



FIBER ROLL INLET PROTECTION DETAIL

SCALE: NONE



NOTES FOR SEEDED AND MULCHED AREAS

1. ALL DISTURBED SURFACES SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED WITHIN 7 DAYS OF

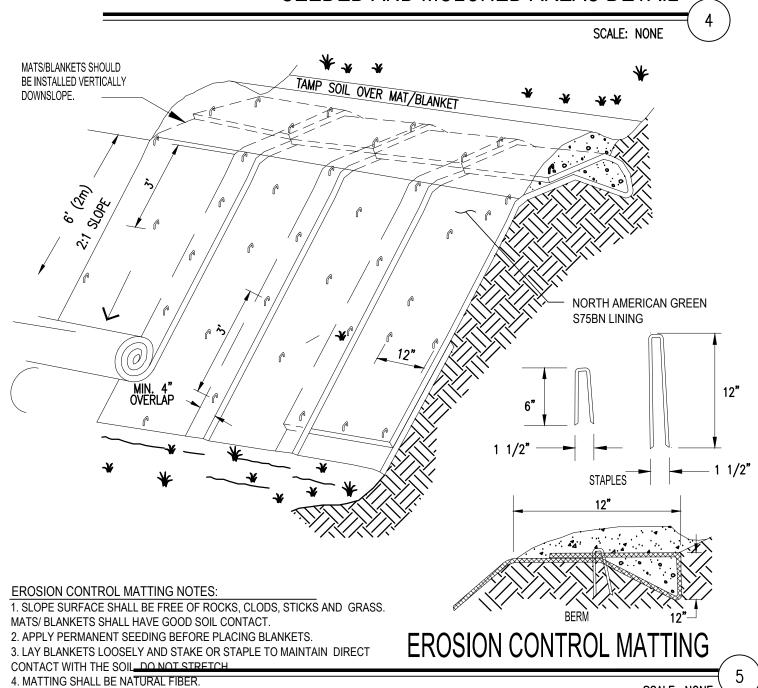
 SEEDING AND MULCHING OF DISTURBED AREAS SHALL TAKE PLACE WITHIN 48 HOURS OF FINAL GRADING.
 MULCH: TYPICALLY HAY OR STRAW MAY BE UTILIZED AND SHALL BE APPLIED AT A RATE OF 90-100 LBS/1,000 SF. MULCH SHALL NOT BE PLACED ON SLOPES OF GREATER THAN 3:1. SEED IMPREGNATED EROSION CONTROL NETTING SHALL BE LISED IN ITS PLACE

4. SEED: SEEDING SHALL OCCUR AFTER APRIL 15 AND PRIOR TO SEPTEMBER 15TH IN ORDER TO ESTABLISH A STAND OF GRASS PRIOR TO GROUND FREEZING. SEED SHALL BE IN ACCORDANCE WITH SEED SPECIFICATION ON THIS SHEET.

5. COVER SEED WITH ¹/₄ INCH SOIL UNLESS A HYDROSEEDER IS USED.
 6. MULCH ANCHORING: SHALL BE ACCOMPLISHED BY DEGRADABLE MULCH NETTING. USE WHEN SLOPES ARE GREATER

7. TOPSOIL AND MULCHING NOT TO BE APPLIED IN AREAS OF TRAVEL WAYS.





ENGINEERING
VENTURES PC

208 Flynn Avenue, Suite 2A, Burlington, VT 05401 + 802-863-6225

Town of Richmond 203 Bridge Street Richmond, Vermont

SV Project #

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BASEMENT DEMO

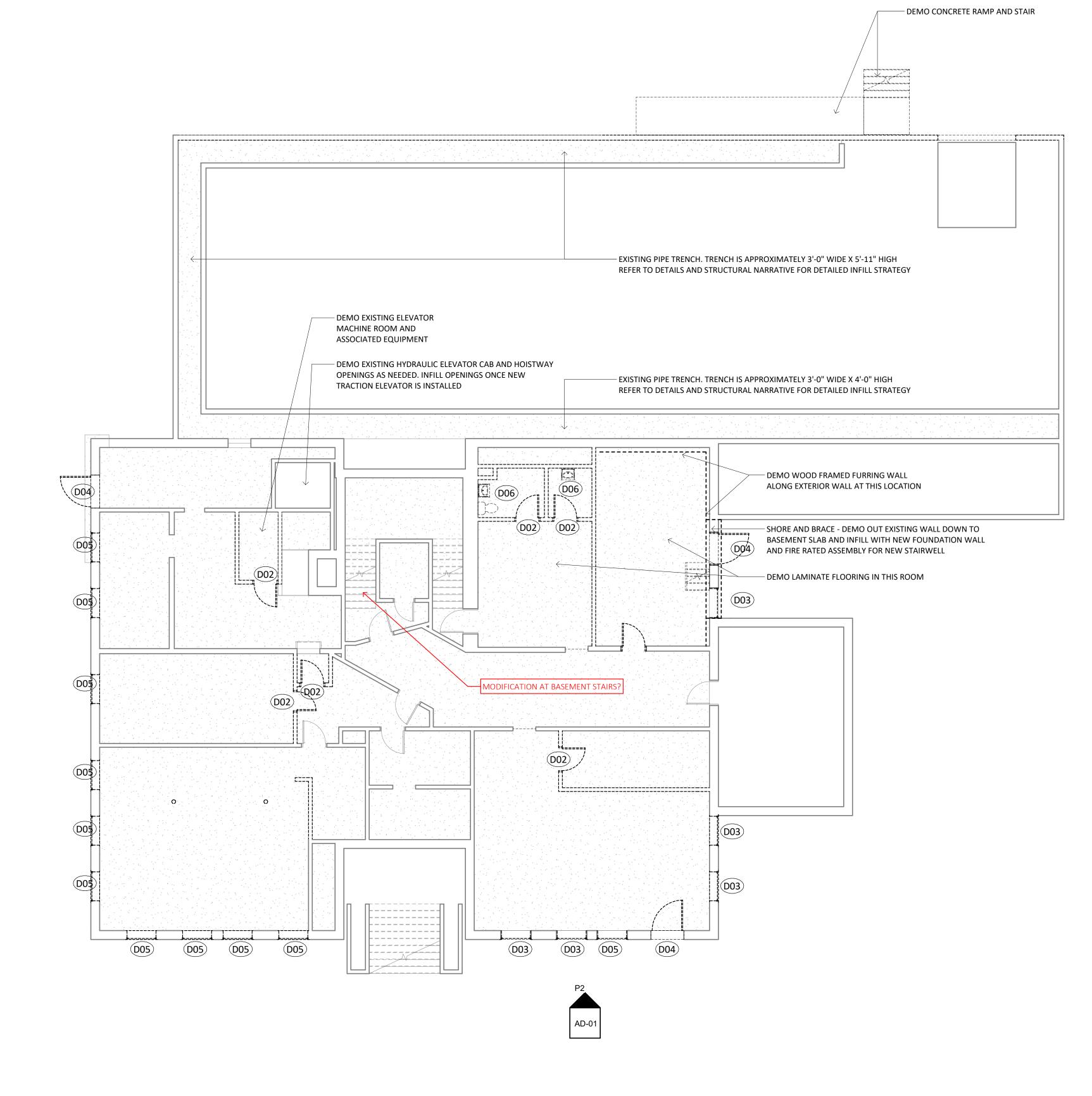
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DEMOLITION NOTES KEYNOTE# KEYNOTE DESCR. DEMO WOOD FRAMED WALL DEMO DOOR AND FRAME DEMO DOUBLE HUNG WINDOW DEMO ACCESS DOOR AT MASONRY OPENING DEMO WOOD INFILLING PANEL AT MASONRY OPENING DEMO PLUMBING FIXTURE(S)



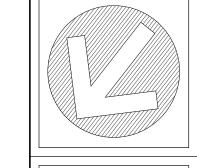


DEMOLITION PLAN - BASEMENT

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

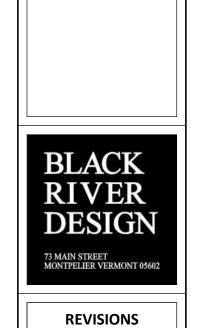
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• REFER TO ROOM SCHEDULES FOR ADDITIONAL INFORMATION RELATED TO DEMOLITION OF FLOORING & CEILINGS





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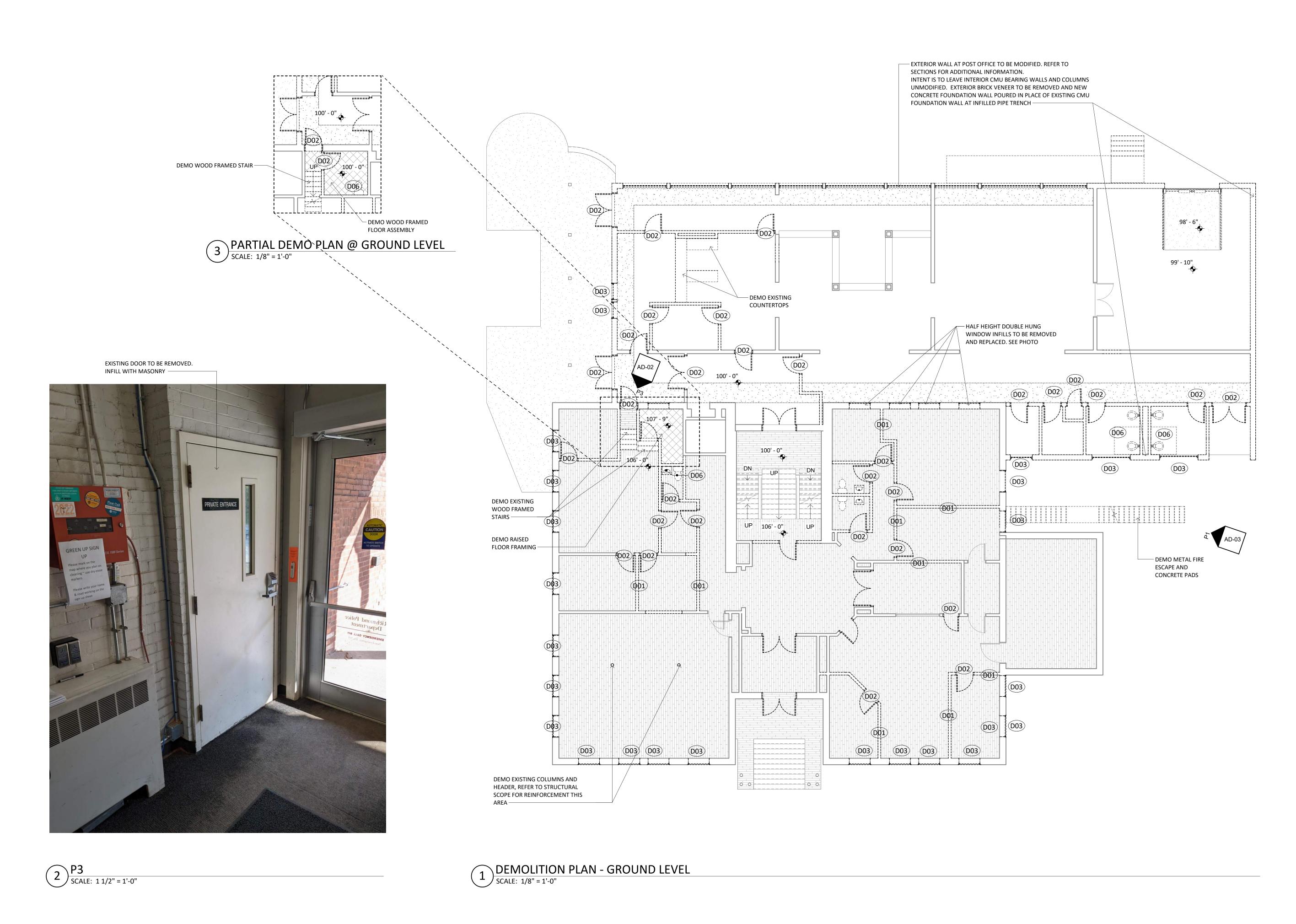


GROUND LEVEL DEMO

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— CUT BACK ROOF

EDGE AT AREA OF

NEW STAIRWELL

— DEMO METAL FIRE ESCAPE AND CONCRETE PADS

DEMO BASE OF WINDOW OPENING AT EACH FLOOR AT THIS LOCATION FOR NEW STAIRWELL

- DEMO EXISTING WINDOWS AT POST OFFICE WING. INFILL

OPENINGS TO MATCH TYPICAL

WALL ASSEMBLY NOTED

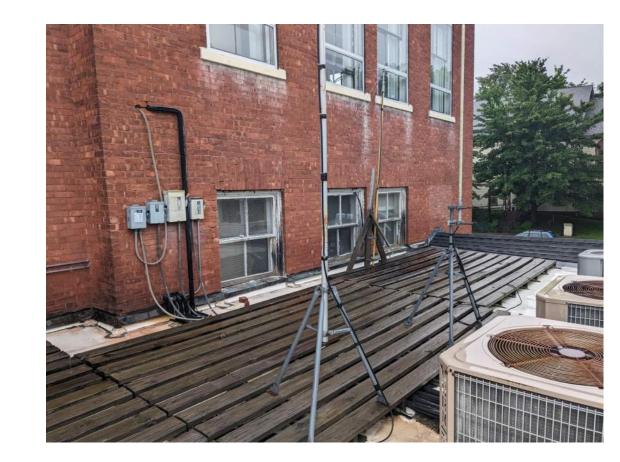
ELSEWHERE

DOOR INSTALLATION

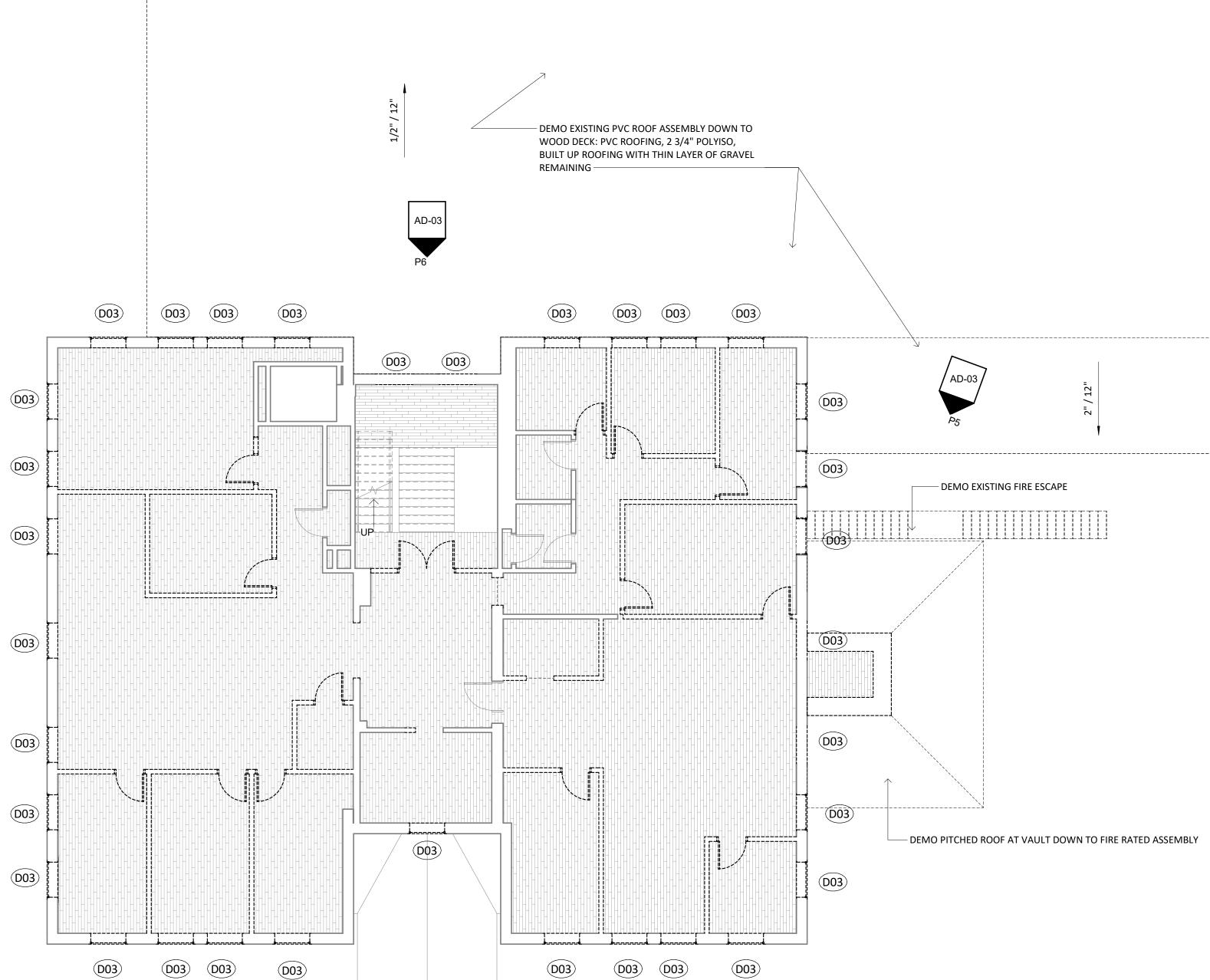
FIRE ESCEPT TO BE REMOVED

EXISTING WOOD SOFFIT AND CORBELS TO REMAIN. SCRAPE AND REPAINT. ASSUME 10 WOOD CORBEL REPLACEMENT, AND 10% OF WOOD T&G REPLACEMENT OF TOTAL SOFFIT





– DEMO EXISTING PVC ROOF ASSEMBLY DOWN TO WOOD DECK: PVC ROOFING, 2 3/4" POLYISO, BUILT UP ROOFING WITH THIN LAYER OF GRAVEL REMAINING -D03 D03 D03 D03



DEMOLITION PLAN - LEVEL 2

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

DEMO DOOR FRAME AND TRANSOM

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SECOND FLOOR DEMO

SCALE

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FEASIBILITY DRAWINGS - NOT FOR CONSTRUCTION

EXISTING WINDOWS TO BE DEMOLISHED, TYPICAL —

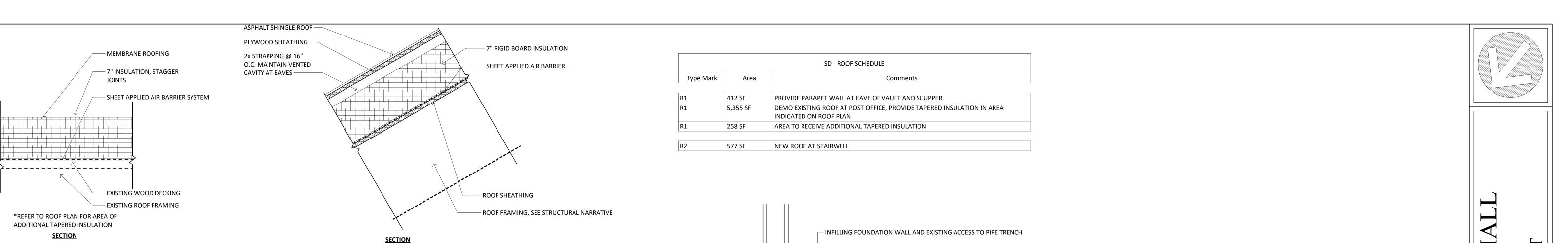
DEMO INFILLED MASONRY OPENINGS, TYPICAL

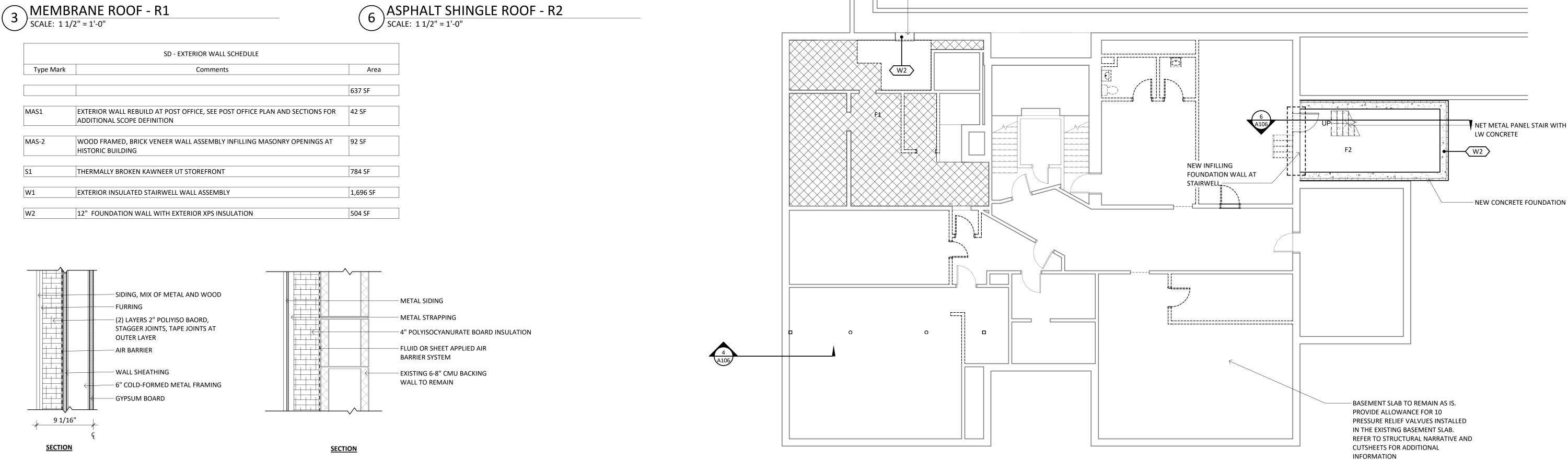
PROVIDE NEW

COATING AT FOUNDATION

FLASHING AND PARGE

INSULATION AT VAULT





SD - WALL

CATEGORY

INTERIOR SD

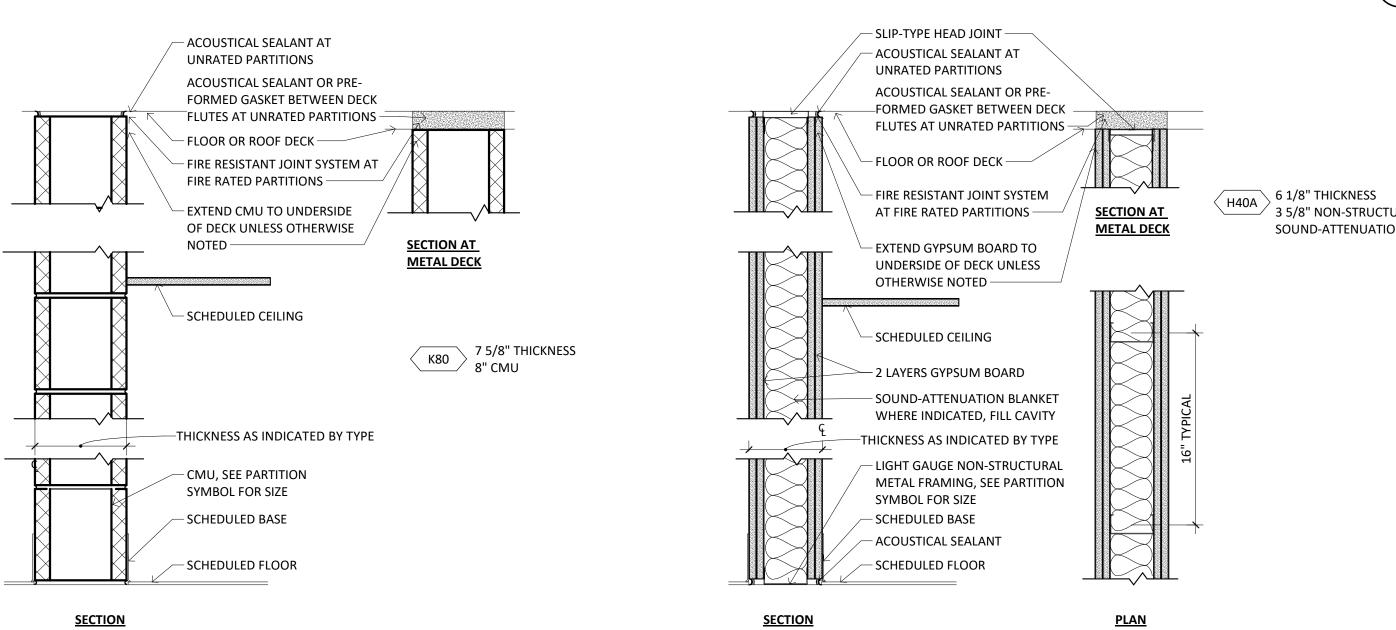
INTERIOR SD

INTERIOR SD

3 5/8" NON-STRUCTURAL METAL FRAMING

SOUND-ATTENUATION BLANKET

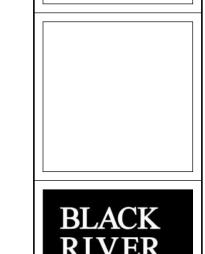




7 PARTITION TYPE H

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

		SD - INTERIOR WALL SCHEDULE (NEW)			SD - SLAB SCOPE	
				Type Mark	Comments	Area
′	Type Mark	Comments	Area			
	_			F1	4" SLAB AT LIMITED AREA OF BASEMENT. SEE PLAN.	666 SF
	H40A		6,260 SF		PROVIDE VAPOR BARRIER	
			·			
	K80		663 SF	F2	SLAB ON GRADE WITH 2" UNDERSLAB INSULATION	225 SF
					AT STAIRWELL BASEMENT	
	S2	INTERIOR ALUMINUM STOREFRONT	315 SF	F2	SLAB ON GRADE AT INFILLED PIPE TRENCH. SEE	840 SF
	32	INTERIOR ALGININOM STORE RONT	313 31		DETAILS FOR ADDITIONAL INFORMATION	
				F3	2" TOPPING SLAB AT POST OFFICE LOADING BAY	730 SF
						1.22.2.
				F4	WOOD FRAMED FLOOR ASSEMBLY INFILL . SEE PLAN	104 SE
				Г4	WOOD FRAINED FLOOR ASSEMBLY INFILL. SEE PLAIN	104 35



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	FLOOR PLAN &
	ASSEMBLY TYPES
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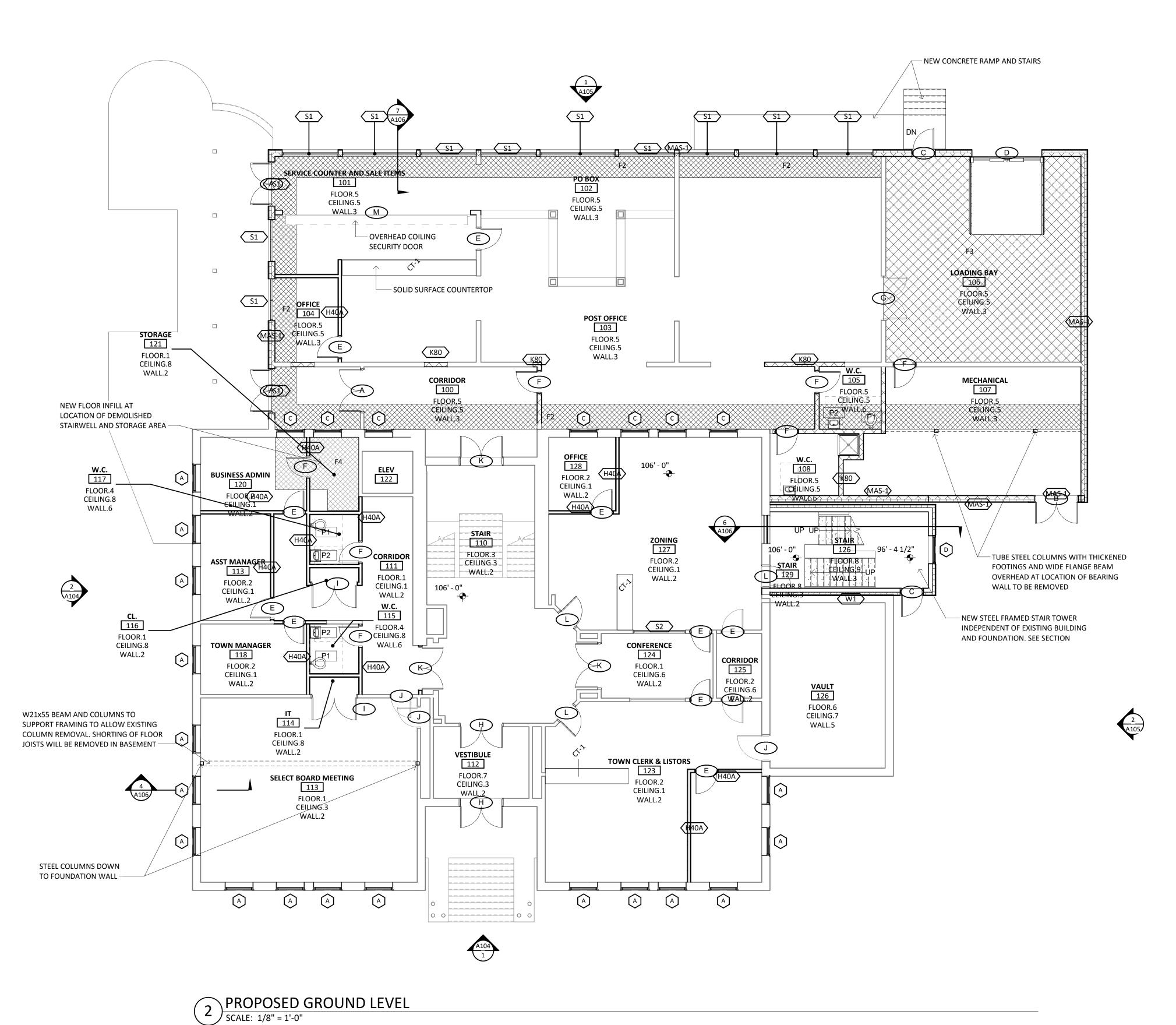
			KEY SCHEDULE - SD F	LOOR SCOPE			
SD - FLOOR SCOPE TAG	SD - EXISTING FLOOR	SD - FLOOR DEMO	FLOOR MATERIAL	Floor Finish	SD - FLOOR COMMENTS	BASE MATERIAL	Base Finish

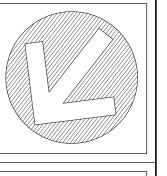
			KEY SCHEDULE - SD I	-LOOK SCOPE			
SD - FLOOR SCOPE TAG	SD - EXISTING FLOOR	SD - FLOOR DEMO	FLOOR MATERIAL	Floor Finish	SD - FLOOR COMMENTS	BASE MATERIAL	Base Finish
FLOOR.1	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.3	CARPET OVER WOOD	DEMO CARPET	WOOD TREADS & RISER WITH RUBBER RUNNERS	PAINT/	SCRAPE AND STAIN EXISTING HANDRAILS	EXISTING WOOD	STAIN
FLOOR.4	CARPET OVER WOOD	DEMO CARPET & WOOD	CERAMIC TILE			TILE	
FLOOR.5	SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD			4" RUBBER	
FLOOR.6	VCT	NO WORK	EXISTING		NO WORK	EXISTING	
FLOOR.7	WOOD		WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.8			LW CONCRETE WITH RUBER TREADS/RISERS	POLISHED		4" RUBBER	
FLOOR.9	CARPET OVER WOOD	DEMO CARPET	CORK UNDERLAYMENT AND FLOTEX			EXISTING WOOD AT PERIMETER/NEW	STAIN

			KEY SCHEDULE - SD CEIL	ING SCOPE	
SD - CEILING SCOPE TAG	SD - EXISTING CEILING	SD - EXISTING CEILING DEMO	CEILING MATERIAL	Ceiling Finish	SD - CEILING COMMENTS
CEILING.1	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.2	HARD CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING HARD CEILING	PAINT	
CEILING.3	TIN CEILING		EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.4	TIN CEILING	REMOVE TIN & SALVAGE	GYP. BD.	PAINT	
CEILING.5	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
CEILING.6	HARD CEILING	DEMO EXISTING	SUSPENDED APC		
CEILING.7	EXISTING		EXISTING	PAINT	
CEILING.8	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CEILING.9			GYP. BD.	PAINT	

	KEY SCHEDULE - SD WALL S	COPE
SD - WALL SCOPE TAG	WALL MATERIAL	Wall Finish
WALL.1	GYP. BD.	PAINT
WALL.2	EXIST PLASTER/GYP. BD.	PAINT
WALL.3	GYP BD./CMU	PAINT
WALL.4	CMU	PAINT
WALL.5	EXIST	PAINT
WALL.6	CERAMIC TILE UP TO 4' AFF, GYP	/PAINT

*REFER TO A107 AND A108 FOR MORE DETAILED ROOM SCHEDULES WITH AREAS AND PERIMETERS





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FLOOR PLAN SCALE

1/8" = 1'-0" DATE 9/29/2022

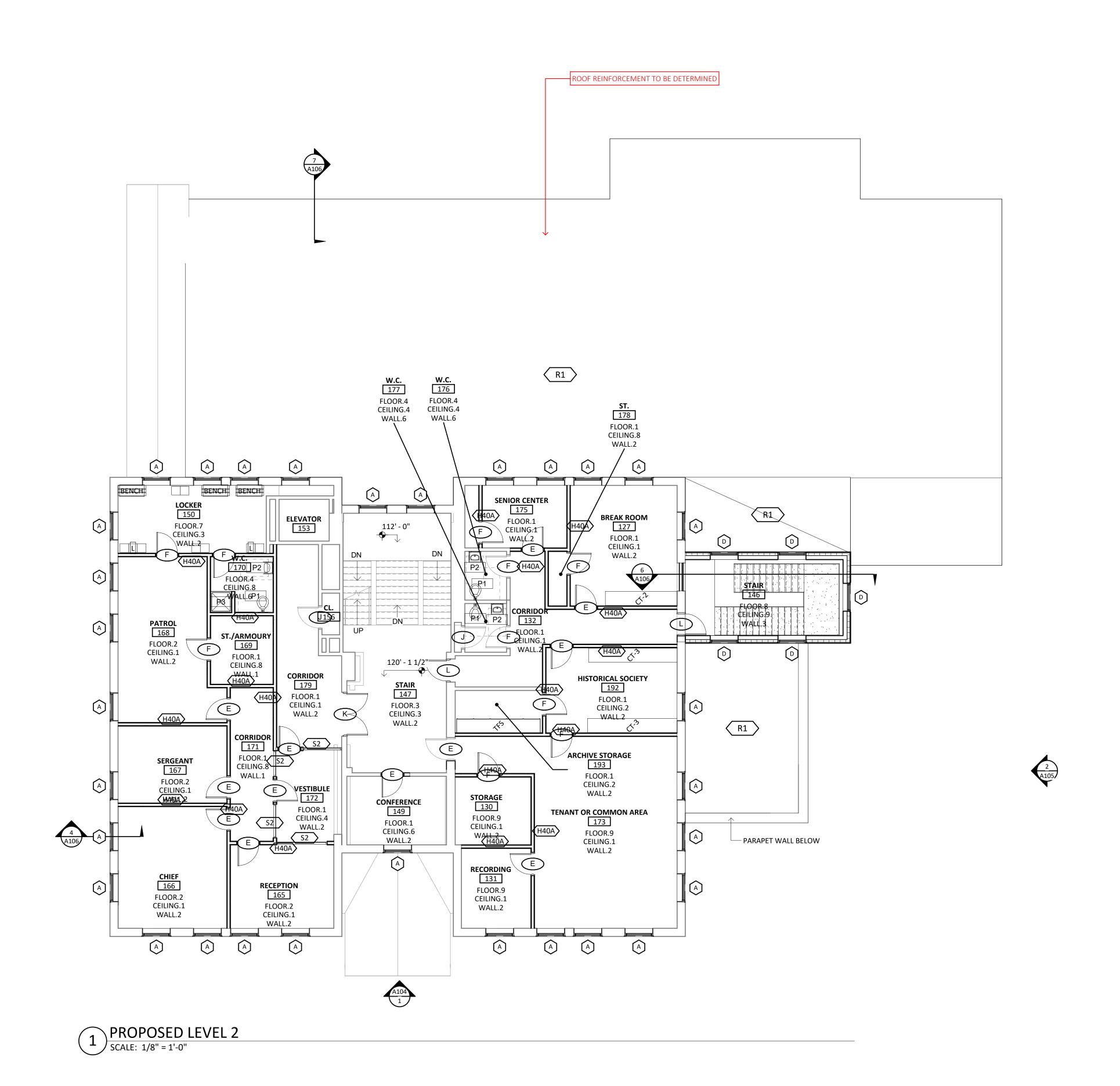
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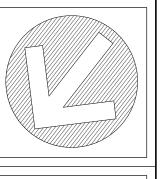
			KEY SCHEDULE - SD I	LOOR SCOPE			
SD - FLOOR SCOPE TAG	SD - EXISTING FLOOR	SD - FLOOR DEMO	FLOOR MATERIAL	Floor Finish	SD - FLOOR COMMENTS	BASE MATERIAL	Base Finish
FLOOR.1	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.3	CARPET OVER WOOD	DEMO CARPET	WOOD TREADS & RISER WITH RUBBER RUNNERS	PAINT/	SCRAPE AND STAIN EXISTING HANDRAILS	EXISTING WOOD	STAIN
FLOOR.4	CARPET OVER WOOD	DEMO CARPET & WOOD	CERAMIC TILE			TILE	
FLOOR.5	SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD			4" RUBBER	
FLOOR.6	VCT	NO WORK	EXISTING		NO WORK	EXISTING	
FLOOR.7	WOOD		WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.8			LW CONCRETE WITH RUBER TREADS/RISERS	POLISHED		4" RUBBER	
FLOOR.9	CARPET OVER WOOD	DEMO CARPET	CORK UNDERLAYMENT AND FLOTEX			EXISTING WOOD AT PERIMETER/NEW	STAIN

KEY SCHEDULE - SD CEILING SCOPE							
SD - CEILING SCOPE		SD - EXISTING		Ceiling			
TAG	SD - EXISTING CEILING	CEILING DEMO	CEILING MATERIAL	Finish	SD - CEILING COMMENTS		
CEILING.1	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING		
CEILING.2	HARD CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING HARD CEILING	PAINT			
CEILING.3	TIN CEILING		EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING		
CEILING.4	TIN CEILING	REMOVE TIN & SALVAGE	GYP. BD.	PAINT			
CEILING.5	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC				
CEILING.6	HARD CEILING	DEMO EXISTING	SUSPENDED APC				
CEILING.7	EXISTING		EXISTING	PAINT			
CEILING.8	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT			
CEILING.9			GYP. BD.	PAINT			

KEY SCHEDULE - SD WALL SCOPE						
SD - WALL SCOPE TAG	Wall Finish					
WALL.1	GYP. BD.	PAINT				
WALL.2	EXIST PLASTER/GYP. BD.	PAINT				
WALL.3	GYP BD./CMU	PAINT				
WALL.4	CMU	PAINT				
WALL.5	EXIST	PAINT				
WALL.6	CERAMIC TILE UP TO 4' AFF,	/PAINT				

*REFER TO A107 AND A108 FOR MORE DETAILED ROOM SCHEDULES WITH AREAS AND PERIMETERS





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FLOOR PLAN SCALE

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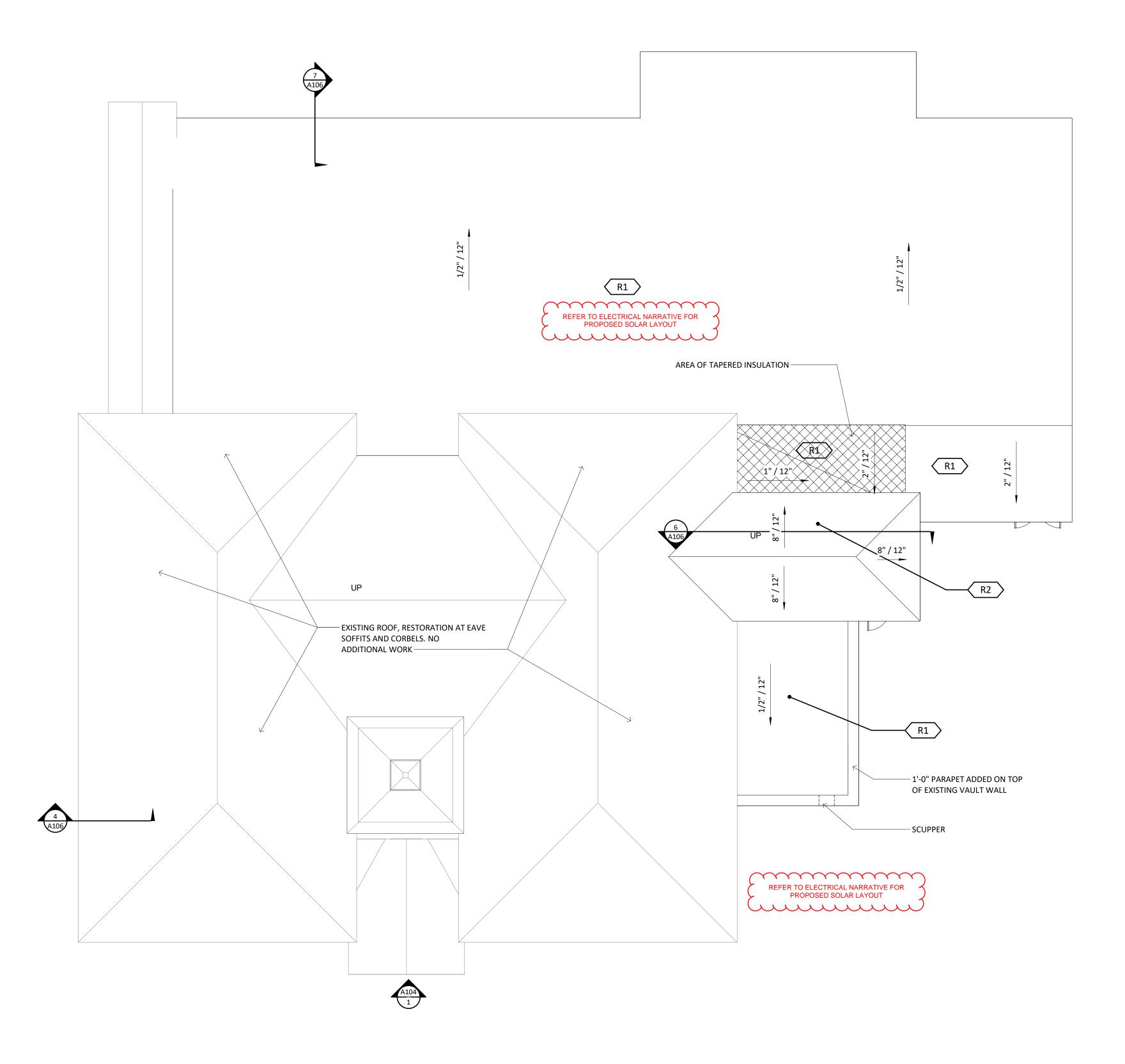
ROOF PLAN

SCALE

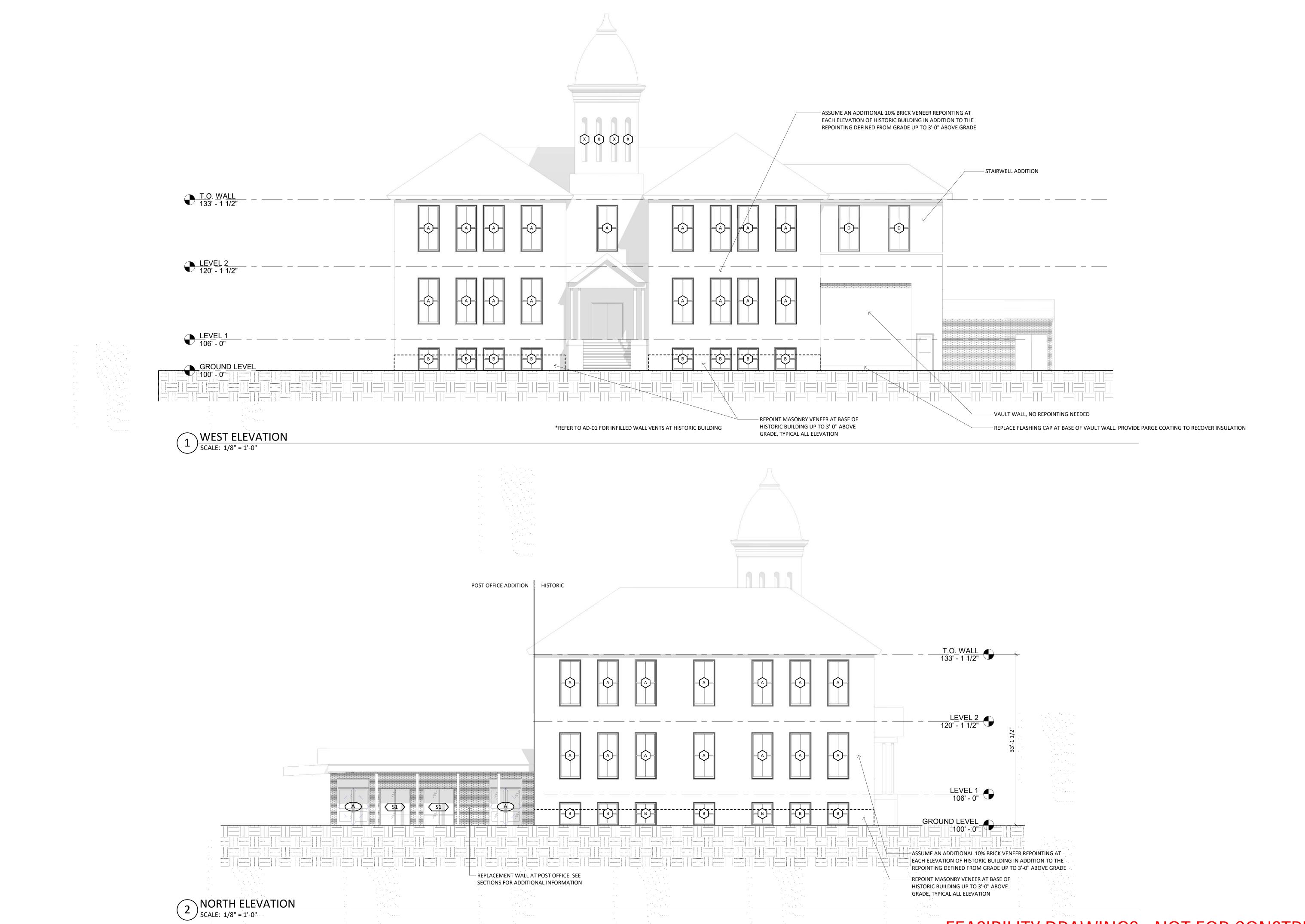
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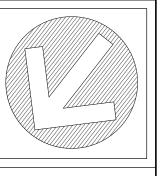
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1 ROOF PLAN
SCALE: 1/8" = 1'-0"





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RICHMOND,

RICHMOND

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BUILDING ELEVATIONS

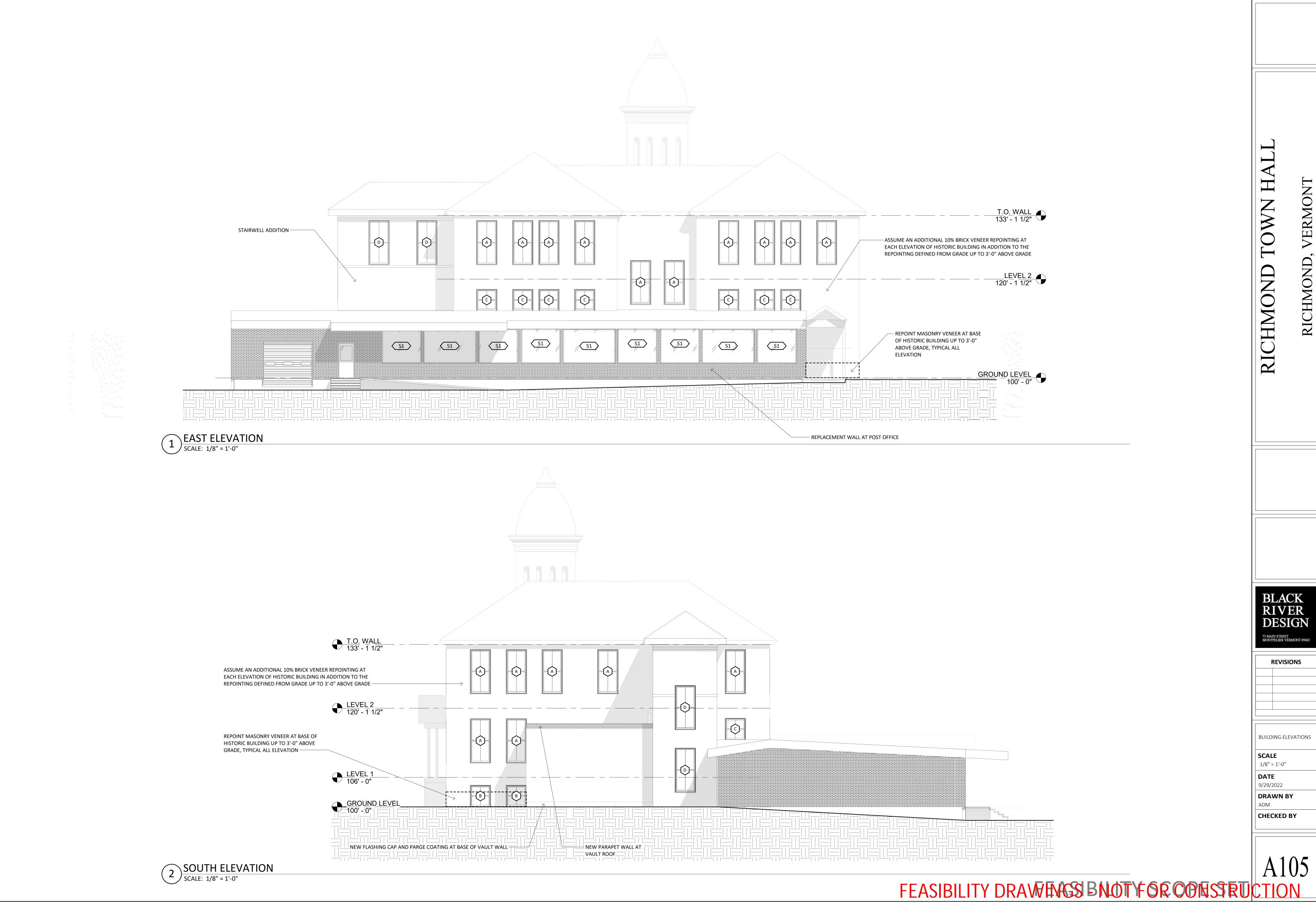
SCALE

DATE 9/29/2022

1/8" = 1'-0"

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RICHMOND,

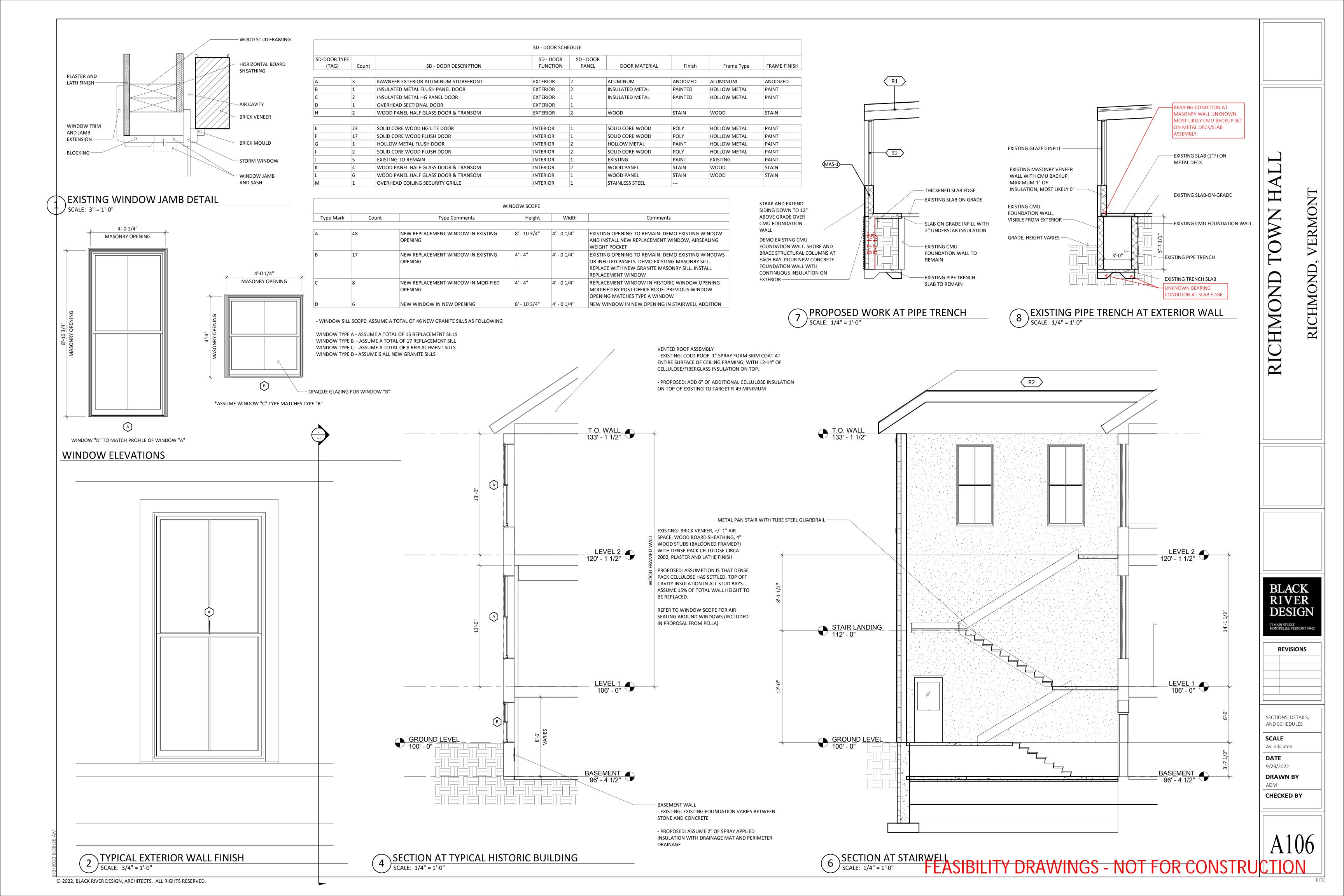
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BUILDING ELEVATIONS

SCALE DATE 9/29/2022

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SD FINISH SCHEDULE BY TYPE - FLOORING												
CD 5100D							2D FINISH SCHEDOLE BY TYPE - FL	OURING				
SD - FLOOR SCOPE TAG	Level	Name	Number	Area	Perimeter	SD - EXISTING FLOOR	SD - FLOOR DEMO	FLOOR MATERIAL	Floor Finish	SD - FLOOR COMMENTS	BASE MATERIAL	Base Finish
FLOOD 1	LEVEL 4	CORRIDOR	111	224.05	1101 5 25 /6411	CARRET OVER MOOR	DEMO CARRET	EVICTING WOOD NEW WOOD	DOLV	ASSLIBATE 400% IMOOD DEDLA SENATALIT	EVISTING WOOD AT REPUMETER/NEW	CTAIN
FLOOR.1 FLOOR.1	LEVEL 1	CORRIDOR SELECT BOARD MEETING	111		118' - 5 25/64" 114' - 9"	CARPET OVER WOOD CARPET OVER WOOD	DEMO CARPET DEMO CARPET	EXISTING WOOD/NEW WOOD EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW EXISTING WOOD AT PERIMETER/NEW	STAIN STAIN
FLOOR.1	LEVEL 1	IT	114		18' - 11 1/4"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 1	CL.	116		18' - 0 25/64"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 1	STORAGE	121		35' - 1 23/64"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 1	CONFERENCE	124	148 SF	50' - 6 7/128"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 2	BREAK ROOM	127		65' - 4 19/128"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 2	CORRIDOR	132	228 SF	104' - 2 57/64"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1 FLOOR.1	LEVEL 2	CONFERENCE ST./ARMOURY	149 169		48' - 3 57/64" 37' - 7 1/2"	CARPET OVER WOOD CARPET OVER WOOD	DEMO CARPET DEMO CARPET	EXISTING WOOD/NEW WOOD EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW EXISTING WOOD AT PERIMETER/NEW	STAIN STAIN
FLOOR.1	LEVEL 2	CORRIDOR	171		56' - 5"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 2	VESTIBULE	172		44' - 8 3/4"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 2	SENIOR CENTER	175		47' - 2 245/256"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 2	ST.	178	21 SF	20' - 11 31/128"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 2	CORRIDOR	179	220 SF	77' - 4 3/4"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 2	HISTORICAL SOCIETY	192	_	62' - 2 51/128"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.1	LEVEL 2	ARCHIVE STORAGE	193		37' - 3 45/128"	CARPET OVER WOOD	DEMO CARPET	EXISTING WOOD/NEW WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
				3,050 SF	957' - 6 21/64"							
FLOOR.2	LEVEL 1	ASST MANAGER	113	152 SF	50' - 5 9/64"	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2	LEVEL 1	TOWN MANAGER	118		50' - 4 3/4"	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2	LEVEL 1	BUSINESS ADMIN	120		51' - 2 23/64"	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2	LEVEL 1	TOWN CLERK & LISTORS	123	790 SF	111' - 6 31/32"	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2	LEVEL 1	CORRIDOR	125	60 SF	31' - 5 81/128"	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2	LEVEL 1	ZONING	127	719 SF	114' - 0 37/64"	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2	LEVEL 1	OFFICE	128		40' - 1 23/64"	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2	LEVEL 2	RECEPTION CHIEF	165		53' - 8 3/4" 66' - 2 3/4"	CARPET OVER WOOD CARPET OVER WOOD	DEMO CARPET DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.2 FLOOR.2	LEVEL 2	SERGEANT	166 167		53' - 4 3/4"	CARPET OVER WOOD CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN STAIN
FLOOR.2	LEVEL 2	PATROL	168		78' - 10 3/4"	CARPET OVER WOOD	DEMO CARPET	FLOTEX CARPET			EXISTING WOOD AT PERIMETER/NEW	STAIN
				3,075 SF	701' - 5 101/128"						,	
FLOOR.3	LEVEL 1	STAIR	110	661 SF	127' - 1 103/128"	CARPET OVER WOOD	DEMO CARPET	WOOD TREADS & RISER WITH RUBBER RUNNERS	PAINT/	SCRAPE AND STAIN EXISTING HANDRAILS	EXISTING WOOD	STAIN
FLOOR.3	LEVEL 2	STAIR	147	553 SF	107' - 11 181/256"	CARPET OVER WOOD	DEMO CARPET	WOOD TREADS & RISER WITH RUBBER	PAINT/	SCRAPE AND STAIN EXISTING HANDRAILS	EXISTING WOOD	STAIN
120011.5			117	333 31	107 11 101/230	CAMILET OVER WOOD	DEWIC OWN ET	RUNNERS	,,,,,	SOLVILE 7 WED STATES EXISTENCE TO WED WILLS	ZAISTING WOOD	3174114
				1,213 SF	235' - 1 131/256"						·	
	T	I	1	T		T		T			T	
FLOOR 4	LEVEL 1	W.C.	115		28' - 2 1/2" 28' - 2"	CARPET OVER WOOD	DEMO CARPET & WOOD	CERAMIC THE			TILE	
FLOOR.4 FLOOR.4	LEVEL 1 LEVEL 2	W.C.	117 170		39' - 11 1/2"	CARPET OVER WOOD CARPET OVER WOOD	DEMO CARPET & WOOD DEMO CARPET & WOOD	CERAMIC TILE CERAMIC TILE			TILE TILE	
FLOOR.4	LEVEL 2	W.C.	176	_	26' - 0"	CARPET OVER WOOD	DEMO CARPET & WOOD	CERAMIC TILE			TILE	
FLOOR.4	LEVEL 2	W.C.	177		26' - 0"	CARPET OVER WOOD	DEMO CARPET & WOOD	CERAMIC TILE			TILE	
				254 SF	148' - 4"							
FLOOR.5	GROUND LEVEL	CORRIDOR	100		108' - 2 3/4"	SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD			4" RUBBER	
FLOOR.5	GROUND LEVEL	SERVICE COUNTER AND SALE ITEMS			95' - 7"	SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD			4" RUBBER	
FLOOR.5 FLOOR.5	GROUND LEVEL GROUND LEVEL	PO BOX POST OFFICE	102		89' - 10 137/256" 310' - 1 197/256"	SHEET GOOD/VCT TILE SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD NEW SHEET GOOD			4" RUBBER 4" RUBBER	
FLOOR.5	GROUND LEVEL	OFFICE	103		42' - 2 1/2"	SHEET GOOD/VCT TILE SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD			4" RUBBER	
FLOOR.5	GROUND LEVEL	W.C.	105		35' - 7 1/2"	SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD			4" RUBBER	
FLOOR.5	GROUND LEVEL	LOADING BAY	106	823 SF	114' - 9 1/2"	SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD			4" RUBBER	
FLOOR.5	GROUND LEVEL	MECHANICAL	107	558 SF	104' - 11 1/4"	SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD			4" RUBBER	
FLOOR.5	GROUND LEVEL	W.C.	108		43' - 2 3/4"	SHEET GOOD/VCT TILE	DEMO TILE DOWN TO CONCRETE	NEW SHEET GOOD			4" RUBBER	
				4,840 SF	944' - 7 141/256"							
FLOOR.6	LEVEL 1	VAULT	126	391 SF	80' - 4"	VCT	NO WORK	EXISTING		NO WORK	EXISTING	
1 LOOK.0	LLVLLI	VAULI	120		80' - 4"	VCI	NO WORK	LAISTING		NO WORK	LAISTING	
				÷*								
FLOOR.7	LEVEL 1	VESTIBULE	112	140 SF	47' - 10"	WOOD		WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.7	LEVEL 2	LOCKER	150		81' - 6"	WOOD		WOOD	POLY	ASSUME 10% WOOD REPLACEMENT	EXISTING WOOD AT PERIMETER/NEW	STAIN
				362 SF	129' - 4"							
FLOOR.8	GROUND LEVEL	STAIR	126	247 SF	67' - 2"			LW CONCRETE WITH RUBER	POLISHED		4" RUBBER	
FLOUK.8	GUOOND LEVEL	JIAIN	120	24/ SF	07 - 2			TREADS/RISERS	FOLISHED		4 NUDDEN	
FLOOR.8	LEVEL 1	STAIR	129	247 SF	67' - 2"							
FLOOR.8	LEVEL 2	STAIR	146		67' - 2"			LW CONCRETE WITH RUBER	POLISHED		4" RUBBER	
								TREADS/RISERS				
				742 SF	201' - 6"							
FLOOR.9	LEVEL 2	STORAGE	130	106 SF	41' - 3"	CARPET OVER WOOD	DEMO CARPET	CORK UNDERLAYMENT AND FLOTEX			EXISTING WOOD AT PERIMETER/NEW	STAIN
FLOOR.9	LEVEL 2	RECORDING	131		42' - 11 1/2"	CARPET OVER WOOD	DEMO CARPET	CORK UNDERLAYMENT AND FLOTEX			EXISTING WOOD AT PERIMETER/NEW	STAIN
ELOOP 0	LEVEL 2	TENANT OF COMMON APEA	172	626 SE	110' - 11 1//"	CAPPET OVER WOOD	DEMO CAPPET	COPY LINDERLAYMENT AND ELOTEY			EXISTING WOOD AT DEDIMETED NEW	STAIN

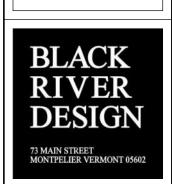
CORK UNDERLAYMENT AND FLOTEX

EXISTING WOOD AT PERIMETER/NEW STAIN

Casework Schedule								
Count	Description							
3	SOLID SURFACE COUNTERTOP, SEE FLOOR PLANS. WALL SUPPORT							
1	SOLID SURFACE COUNTERTOP WITH UNDERCOUNT CABINETS, SEE FLOOR PLANS							
2	EPOXY COUNTERTOP WITH UNDERCOUNTER CABINETS							
1	8'-0" TALL CUSTOM WOOD SHELVING							
Furniture	Schedule							
Count	Description							
3	HARDWOOD LOCKERROOM BENCH. SEE PLAN							
9	15" X 72" METAL LOCKERS							
Plum	nbing Fixture Schedule							
Count Description								
6	Wall Hunt Water Closet							
	3 1 Furniture Count 3 9							

Roll-In Shower





REVISIONS

SCHEDULES

SCALE

DRAWN BY CHECKED BY

FLOOR.9

LEVEL 2

TENANT OR COMMON AREA

173

847 SF

118' - 11 1/4"

203' - 1 3/4"

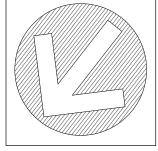
CARPET OVER WOOD DEMO CARPET

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						SD FINISH SO	CHEDULE BY TYPE - CEILING			CLARIFICATION; REPLACEMENT/8 RESTORED FOR
TAG # - SEE PLANS	LEVEL	ROOM NAME	ROOM #	AREA	Perimeter	EXISTING CONDITION	DEMO	CEILING MATERIAL	Ceiling Finish	SD - CEILING COMMENTS TIN CEILING AND CROWN MOULDI
CEILING.1	LEVEL 1	CORRIDOR	111	321 SF	118' - 5 25/64"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1	LEVEL 1	ASST MANAGER	113	152 SF	50' - 5 9/64"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1	LEVEL 1	TOWN MANAGER	118	152 SF	50' - 4 3/4"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1 CEILING.1	LEVEL 1	BUSINESS ADMIN TOWN CLERK & LISTORS	120 123	158 SF 790 SF	51' - 2 23/64" 111' - 6 31/32"	TIN CEILING ABOVE DROPPED CEILING TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING DEMO DROPPED CEILING	EXISTING TIN/NEW TIN EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1		ZONING	127	790 SF	111 - 0 31/32	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1		OFFICE	128	100 SF	40' - 1 23/64"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1	LEVEL 2	BREAK ROOM	127	266 SF	65' - 4 19/128"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1		STORAGE	130	106 SF	41' - 3"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1		RECORDING	131	115 SF	42' - 11 1/2"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1 CEILING.1	LEVEL 2	CORRIDOR RECEPTION	132 165	228 SF 178 SF	104' - 2 57/64" 53' - 8 3/4"	TIN CEILING ABOVE DROPPED CEILING TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING DEMO DROPPED CEILING	EXISTING TIN/NEW TIN EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1		CHIEF	166	273 SF	66' - 2 3/4"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1		SERGEANT	167	173 SF	53' - 4 3/4"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1	LEVEL 2	PATROL	168	319 SF	78' - 10 3/4"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1	LEVEL 2	TENANT OR COMMON AREA	_	626 SF	118' - 11 1/4"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1		SENIOR CENTER CORRIDOR	175 179	132 SF 220 SF	47' - 2 245/256" 77' - 4 3/4"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.1	LEVEL 2	CORRIDOR	179		,	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING TIN/NEW TIN	PAINI	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.2	LEVEL 2	HISTORICAL SOCIETY	192	231 SF	62' - 2 51/128"	HARD CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING HARD CEILING	PAINT	
CEILING.2	LEVEL 2	ARCHIVE STORAGE	193	77 SF 307 SF	37' - 3 45/128" 99' - 5 3/4"	HARD CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING	EXISTING HARD CEILING	PAINT	
CEILING.3	LEVEL 1	STAIR	110	661 SF	127' - 1 103/128"	TIN CEILING		EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.3		VESTIBULE	112	140 SF	47' - 10"	TIN CEILING TIN CEILING		EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.3	_	SELECT BOARD MEETING	113	818 SF	114' - 9"	TIN CEILING		EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.3	LEVEL 1		129	247 SF	67' - 2"					
CEILING.3	LEVEL 2		147	553 SF	107' - 11 181/256"	TIN CEILING		EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
CEILING.3	LEVEL 2	LOCKER	150	222 SF 2,641 SF	81' - 6" 546' - 4 131/256"	TIN CEILING		EXISTING TIN/NEW TIN	PAINT	ASSUME 20% TIN REPLACEMENT WITH NEW INCLUDING TIN CROWN MOULDING
	1	T.,	1	1		I	T	Taua		
CEILING.4	LEVEL 2	VESTIBULE	172 176	121 SF 42 SF	44' - 8 3/4" 26' - 0"	TIN CEILING TIN CEILING	REMOVE TIN & SALVAGE REMOVE TIN & SALVAGE	GYP. BD.	PAINT PAINT	
CEILING.4	LEVEL 2		177	42 SF	26' - 0"	TIN CEILING TIN CEILING	REMOVE TIN & SALVAGE	GYP. BD.	PAINT	
				205 SF	96' - 8 3/4"					
CEILING.5	GROUND LEVEL	CORRIDOR	100	409 SF	108' - 2 3/4"	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
CEILING.5		SERVICE COUNTER AND SALE ITEMS	101	446 SF	95' - 7"	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
CEILING.5	GROUND LEVEL		102	296 SF	89' - 10 137/256"	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
CEILING.5	GROUND LEVEL	POST OFFICE	103	2,023 SF	310' - 1 197/256"	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
CEILING.5	GROUND LEVEL	OFFICE	104	109 SF	42' - 2 1/2"	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
CEILING.5	GROUND LEVEL	W.C.	105	79 SF	35' - 7 1/2"	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
CEILING.5	LEVEL	LOADING BAY	106	823 SF	114' - 9 1/2"	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
CEILING.5	GROUND LEVEL	MECHANICAL	107	558 SF	104' - 11 1/4"	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
CEILING.5	GROUND LEVEL	W.C.	108	96 SF	43' - 2 3/4"	ADHERED APC CEILING	DEMO ACOUSTIC CEILING	SUSPENDED APC		
				4,840 SF	944' - 7 141/256"					
CEILING.6	LEVEL 1	CONFERENCE	124	148 SF	50' - 6 7/128"	HARD CEILING	DEMO EXISTING	SUSPENDED APC		
CEILING.6	LEVEL 1	CORRIDOR	125	60 SF	31' - 5 81/128"	HARD CEILING	DEMO EXISTING	SUSPENDED APC		
CEILING.6	LEVEL 2	CONFERENCE	149	141 SF 349 SF	48' - 3 57/64" 130' - 3 37/64"	HARD CEILING	DEMO EXISTING	SUSPENDED APC		
		,								
CEILING.7	LEVEL 1	VAULT	126	391 SF 391 SF	80' - 4" 80' - 4"	EXISTING		EXISTING	PAINT	
CEILING.8	LEVEL 1	IT	114	17 SF	18' - 11 1/4"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CEILING.8	LEVEL 1	W.C.	115	50 SF	28' - 2 1/2"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CEILING.8	LEVEL 1	CL.	116	14 SF	18' - 0 25/64"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CEILING.8	LEVEL 1	W.C.	117	50 SF	28' - 2"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CEILING.8	LEVEL 1	STORAGE	121	74 SF	35' - 1 23/64"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CEILING.8	LEVEL 2	ST./ARMOURY	169	88 SF	37' - 7 1/2"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CEILING.8	LEVEL 2	W.C.	170	70 SF	39' - 11 1/2"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CEILING.8	LEVEL 2	CORRIDOR	171	136 SF	56' - 5"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CEILING.8	LEVEL 2	ST.	178	21 SF	20' - 11 31/128"	TIN CEILING ABOVE DROPPED CEILING	DEMO DROPPED CEILING AND SALVAGE TIN	GYP. BD.	PAINT	
CETEII TOIO			_	519 SF	283' - 4 95/128"					
							T			
CEILING.9	GROUND LEVEL	STAIR	126		67' - 2"			GYP. BD.	PAINT	

SCOPE TAG	LEVEL	ROOM NAME	ROOM #	AREA	Perimeter	WALL MATERIAL	Wall Fini
WALL.1	LEVEL 2	ST./ARMOURY	169	88 SF	37' - 7 1/2"	GYP. BD.	PAINT
WALL.1	LEVEL 2	CORRIDOR	171	136 SF	56' - 5"	GYP. BD.	PAINT
				224 SF	94' - 0 1/2"		
WALL.2	LEVEL 1	STAIR	110	661 SF	127' - 1 103/128"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	CORRIDOR	111	321 SF	118' - 5 25/64"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	VESTIBULE	112	140 SF	47' - 10"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	SELECT BOARD MEETING	113	818 SF	114' - 9"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	ASST MANAGER	113	152 SF	50' - 5 9/64"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	IT	114	17 SF	18' - 11 1/4"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	CL.	116	14 SF	18' - 0 25/64"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	TOWN MANAGER	118	152 SF	50' - 4 3/4"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	BUSINESS ADMIN	120	158 SF	51' - 2 23/64"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	STORAGE	121	74 SF	35' - 1 23/64"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	TOWN CLERK & LISTORS	123	790 SF	111' - 6 31/32"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 1	CONFERENCE	124	148 SF	50' - 6 7/128"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2 WALL.2	LEVEL 1	CORRIDOR ZONING	125 127	60 SF 719 SF	31' - 5 81/128" 114' - 0 37/64"	EXIST PLASTER/GYP. BD. EXIST PLASTER/GYP. BD.	PAINT PAINT
WALL.2 WALL.2	LEVEL 1	OFFICE	127	100 SF	40' - 1 23/64"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2 WALL.2	LEVEL 1	STAIR	128	247 SF	67' - 2"	LAIST FLASTEN/GTP. BD.	PAINI
WALL.2 WALL.2	LEVEL 2	BREAK ROOM	129	266 SF	65' - 4 19/128"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	STORAGE	130	106 SF	41' - 3"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	RECORDING	131	115 SF	42' - 11 1/2"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	CORRIDOR	132	228 SF	104' - 2 57/64"	EXIST PLASTER/GYP. BD.	PAINT
NALL.2	LEVEL 2	STAIR	147	553 SF	107' - 11 181/256"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	CONFERENCE	149	141 SF	48' - 3 57/64"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	LOCKER	150	222 SF	81' - 6"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	RECEPTION	165	178 SF	53' - 8 3/4"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	CHIEF	166	273 SF	66' - 2 3/4"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	SERGEANT	167	173 SF	53' - 4 3/4"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	PATROL	168	319 SF	78' - 10 3/4"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	VESTIBULE	172	121 SF	44' - 8 3/4"	EXIST PLASTER/GYP. BD.	PAINT
NALL.2	LEVEL 2	TENANT OR COMMON AREA	173	626 SF	118' - 11 1/4"	EXIST PLASTER/GYP. BD.	PAINT
WALL.2	LEVEL 2	SENIOR CENTER	175	132 SF	47' - 2 245/256"	EXIST PLASTER/GYP. BD.	PAINT
NALL.2	LEVEL 2	ST.	178	21 SF	20' - 11 31/128"	EXIST PLASTER/GYP. BD.	PAINT
NALL.2	LEVEL 2	CORRIDOR	179	220 SF	77' - 4 3/4"	EXIST PLASTER/GYP. BD.	PAINT
NALL.2	LEVEL 2	HISTORICAL SOCIETY	192	231 SF	62' - 2 51/128"	EXIST PLASTER/GYP. BD.	PAINT
NALL.2	LEVEL 2	ARCHIVE STORAGE	193	77 SF	37' - 3 45/128"	EXIST PLASTER/GYP. BD.	PAINT
				8,571 SF	2,199' - 8 113/128"		
WALL.3	GROUND LEVEL	CORRIDOR	100	409 SF	108' - 2 3/4"	GYP BD./CMU	PAINT
WALL.3	GROUND LEVEL	SERVICE COUNTER AND SALE ITEMS	101	446 SF	95' - 7"	GYP BD./CMU	PAINT
WALL.3	GROUND LEVEL	PO BOX	102	296 SF	89' - 10 137/256"	GYP BD./CMU	PAINT
WALL.3 WALL.3	GROUND LEVEL	POST OFFICE	102	2,023 SF	310' - 1 197/256"	GYP BD./CMU	PAINT
WALL.3	GROUND LEVEL	OFFICE	103	109 SF	42' - 2 1/2"	GYP BD./CMU	PAINT
WALL.3	GROUND LEVEL	LOADING BAY	104	823 SF	114' - 9 1/2"	GYP BD./CMU	PAINT
WALL.3	GROUND LEVEL	MECHANICAL MECHANICAL	107	558 SF	104' - 11 1/4"	GYP BD./CMU	PAINT
WALL.3	GROUND LEVEL	STAIR	126	247 SF	67' - 2"	GYP BD./CMU	PAINT
WALL.3	LEVEL 2	STAIR	146	247 SF	67' - 2"	GYP BD./CMU	PAINT
			1-1-	5,159 SF	1,000' - 1 77/256"	1- /	1
WALL.5	LEVEL 1	VAULT	126	391 SF	80' - 4"	EXIST	PAINT
	1	1		391 SF	80' - 4"	1	1
WALL.6	GROUND LEVEL	W.C.	105	79 SF	35' - 7 1/2"	CERAMIC TILE UP TO 4' AFF, GYP	/PAINT
WALL.6	GROUND LEVEL	W.C.	108	96 SF	43' - 2 3/4"	CERAMIC TILE UP TO 4' AFF, GYP	/PAINT
WALL.6	LEVEL 1	W.C.	115	50 SF	28' - 2 1/2"	CERAMIC TILE UP TO 4' AFF, GYP	/PAINT
WALL.6	LEVEL 1	W.C.	117	50 SF	28' - 2"	CERAMIC TILE UP TO 4' AFF, GYP	/PAINT
WALL.6	LEVEL 2	W.C.	170	70 SF	39' - 11 1/2"	CERAMIC TILE UP TO 4' AFF, GYP	/PAINT
WALL.6	LEVEL 2	W.C.	176	42 SF	26' - 0"	CERAMIC TILE UP TO 4' AFF, GYP	/PAINT
WALL.6	LEVEL 2	W.C.	177	42 SF	26' - 0"	CERAMIC TILE UP TO 4' AFF, GYP	/PAINT
	•	·		420 CE	227' 21/4"	· · · · · · · · · · · · · · · · · · ·	1

SD FINISH SCHEDULE BY TYPE - WALL



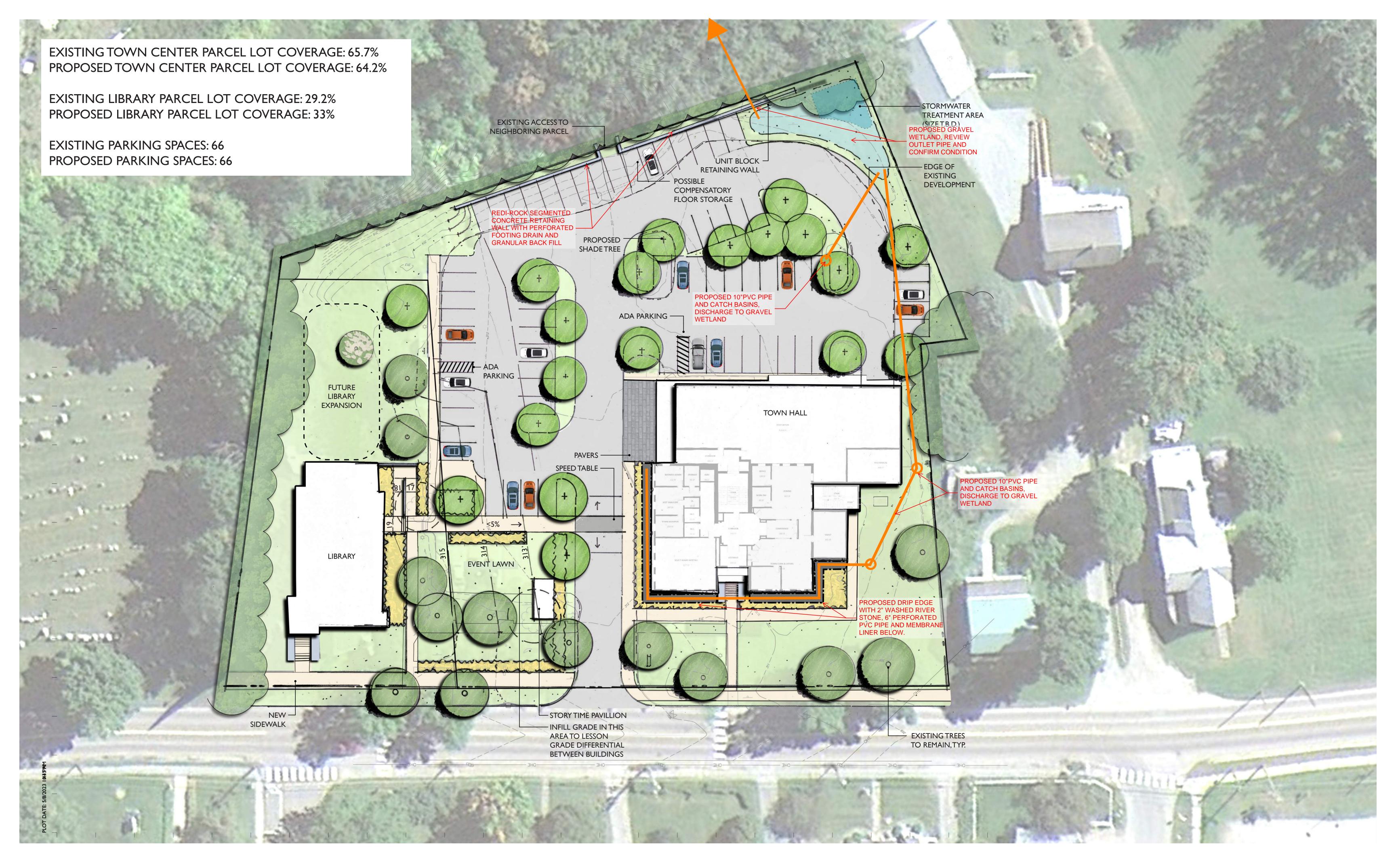
VERMONT

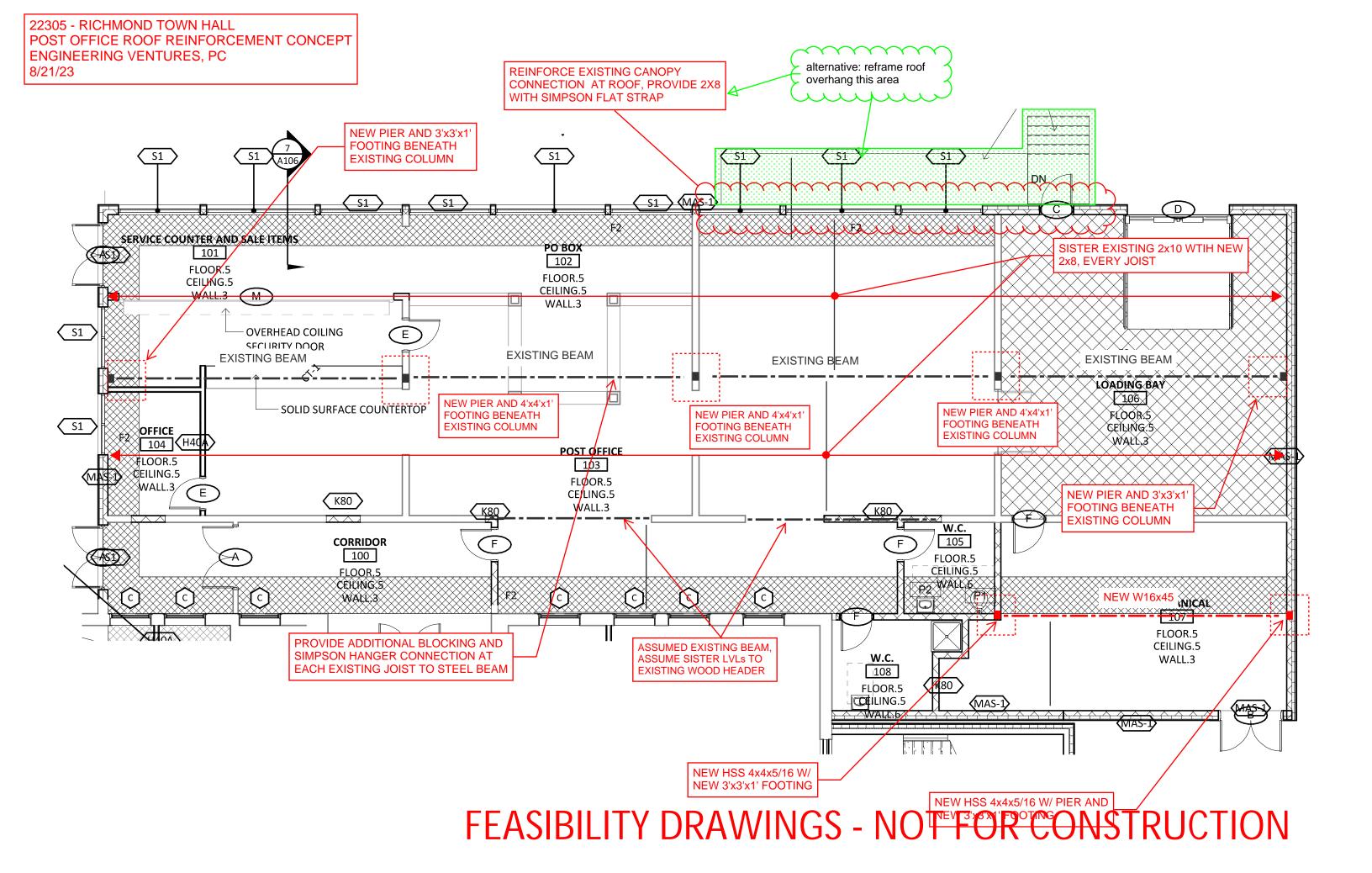
REVISIONS

SCHEDULES

SCALE

DRAWN BY CHECKED BY



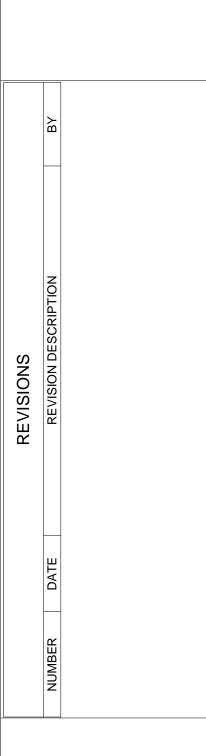




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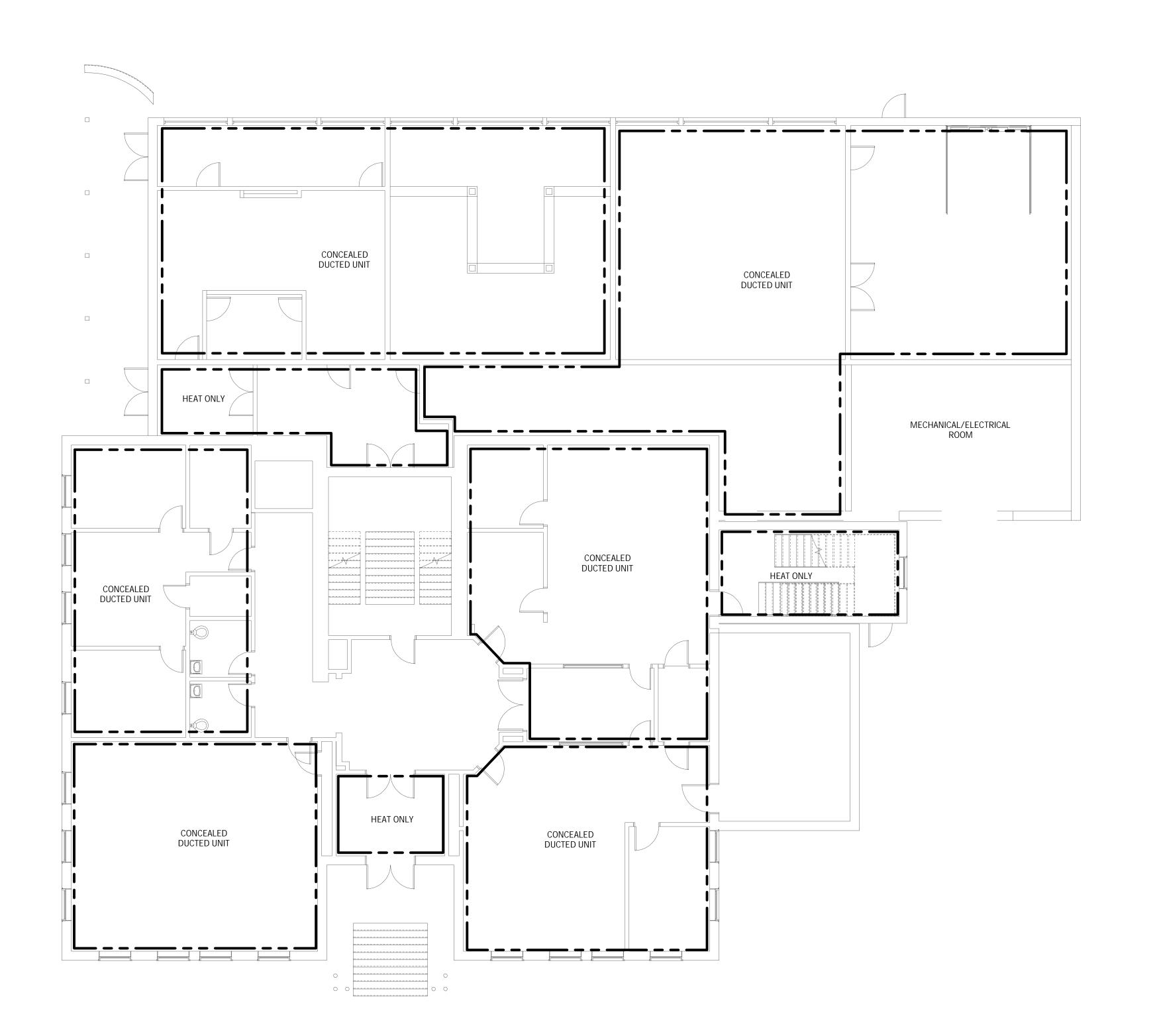
PROJECT NAME:
RICHMOND
TOWN
HALL

SHEET TITLE:

MECHANICAL FIRST FLOOR ZONING PLAN

DLA	
PROJ. ENG.	D&K ARCHIVE #
-	528714
CHECKED BY	D&K PROJECT #
DLA	
DRAWN BY	DATE

FEASIBILITY DRAWINGS - NOT FOR CONSTRUCTION



FIRST FLOOR MECHANICAL ZONING PLAN SCALE: 1/8" = 1'-0"

HORIZONTAL SCALE IN FEET

4 0 8 16 24 32



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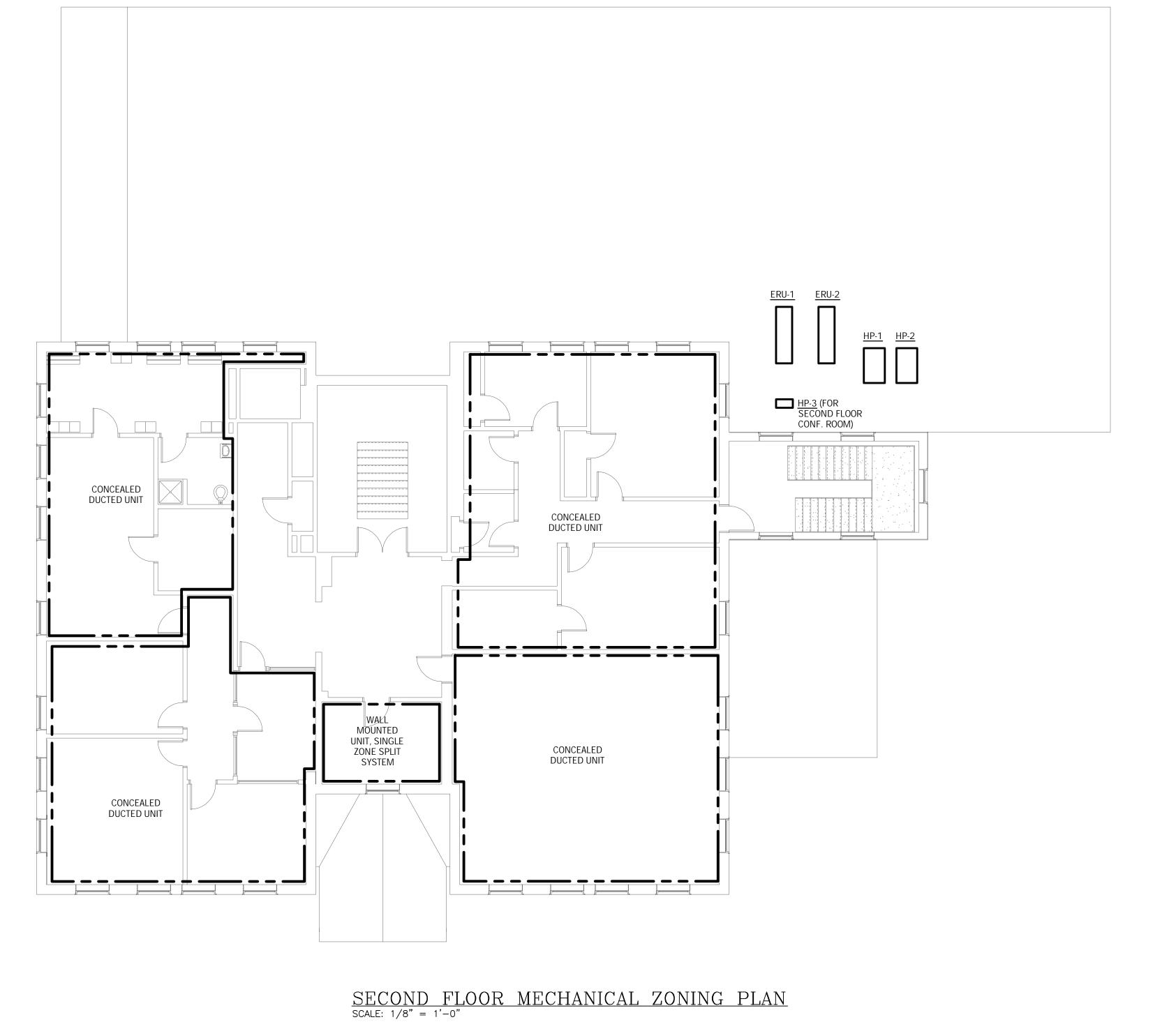
PROJECT NAME: RICHMOND TOWN HALL

SHEET TITLE:

MECHANICAL SECOND FLOOR **ZONING PLAN**

DRAWN BY CHECKED BY D&K PROJECT # D&K ARCHIVE # PROJ. ENG.

SHEET NUMBER



HORIZONTAL SCALE IN FEET

Trane® / Mitsubishi **Electric HVRF**

Meet Trane® / Mitsubishi Electric HVRF: an all-electric, two-pipe hydronic VRF system. This future-forward, decarbonization solution uses refrigerant to connect outdoor units to the Hybrid Branch Controller (HBC) and water to connect the HBC to indoor units. It combines the advantages of VRF and hydronic chiller system into an all-electric heat pump that heats and cools simultaneously.

INDOORS





Indoor Units

Ducted or ductless styles, including medium static ducted, wall mounts and cassettes.

Air bleed valve: Releases air from

the hydronic piping and heat exchanger.

Closed loop heating: Hot water that heats the room, gets cooler, then is returned by the indoor unit to the HBC or Sub HBC where it is reheated by the heat exchangers to provide continuous heating to the spaces that need it.

Sub Hybrid Branch Controller:

The main HBC supplies both cold and hot water to the refrigerant-free Sub HBC which in turn feeds the water to up to 16 connected zones. 8 or 16 ports.

aigorithms

optimize HVRF

system

performance

Water Line Set

Multi-layer composite piping (MLP) costs less than copper, and joints connect easier without brazing.

> **Decarbonize! HVRF** reduces overall system refrigerant use by up to 20%*.

Hybrid Branch Controller

Exchanges heat between refrigerant (exterior) and water (interior). It allows for heat recovery, meaning the system can heat and cool simultaneously.

- Refrigerant-to-water heat exchangers
- HBC control panel communicates with the outdoor unit and indoor units
- 8 or 16 ports

Perfect for multi-zone spaces such as hotels, dorms, offices and multi-family living facilities.

Trane® Horizon® **Dedicated Outdoor Air Systems**

SYSTEM ENHANCEMENTS

Designed to condition up to 100% of outdoor air year-round, reduce latent loads and maintain indoor air quality.



Tracer® SC+

Trane's powerful building automation system integrates systems to simplify command and provide better control over comfort and efficiency.

with ASHRAE 15 standards.



Refrigerant Line Set

Refrigerant (R-410A) transfers heat through the outdoor line sets.



OUTDOORS

Air-source and water-source options.

Outdoor Units (N-Generation CITY MULTI®)

Heat exchanger: Unique all-aluminum design. Reliably operates within -13°F and 60°F for heating, 23°F to 126°F for cooling.

Compressor: Varies the amount of circulating refrigerant by adjusting the operating frequency based on the system's data.

Fan: Variable speed controlled by the unit to optimize heat exchange and energy efficiency.



ROOF SOLAR SUMMARY: (48) 480WDC PV MODULES

POST OFFICE = 21,029kWh

APPROXIMATELY 24,000kWh PRODUCTIONS PER YEAR

TOWN OFFICE/POLICE STATION/CESU/NEST = 42,152kWH

CURRENT YEARLY ELECTRICAL USAGE:

24,000WDC ARRAY

TOTAL = 63181kWh

REVISIONS

ROOF SOLAR PLAN SCALE

1/8" = 1'-0" DATE 8/1/23

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E1.0 FEASIBILITY DRAWINGS - NOT FOR CONSTRUCTION

