NOTES:

1. INFORMATION SHOWN ON THIS PLAN IS THE RESULT OF A FIELD SURVEY PERFORMED BY PETER NOLAN & ASSOCIATES LLC AS OF 2/27/2026.

2. DEED REFERENCE: BOOK 84612 PAGE 319 (32 WHITE STREET)
DEED REFERENCE : BOOK 84612 PAGE 322 (40 WHITE STREET)
PLAN REFERENCE 1: REF PLAN (PLAN 449 OF 2024)
PLAN REFERENCE 2: REF PLAN (PLAN 411 OF 1992)
MIDDLESEX SOUTH COUNTY REGISTRY OF DEEDS

3. THIS PLAN IS NOT INTENDED TO BE RECORDED.

4. I CERTIFY THAT THE DWELLING SHOWN IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X, FLOOD HAZARD BOUNDARY MAP NUMBER 25017C0438F, IN COMMUNITY NUMBER: 250214, DATED 07/08/2025.

5. THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT USES OF THE LAND; HOWEVER THIS NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.

6. FIRST FLOOR ELEVATIONS ARE TAKEN AT THRESHOLD.

7. NO RESPONSIBILITY IS TAKEN FOR ZONING TABLE AS SPRUHAN ENGINEERING, P.C. ARE NOT ZONING EXPERTS. TABLE IS TAKEN FROM TABLE PROVIDED BY LOCAL ZONING ORDINANCE. CLIENT AND/OR ARCHITECT TO VERIFY THE ACCURACY OF ZONING ANALYSIS.

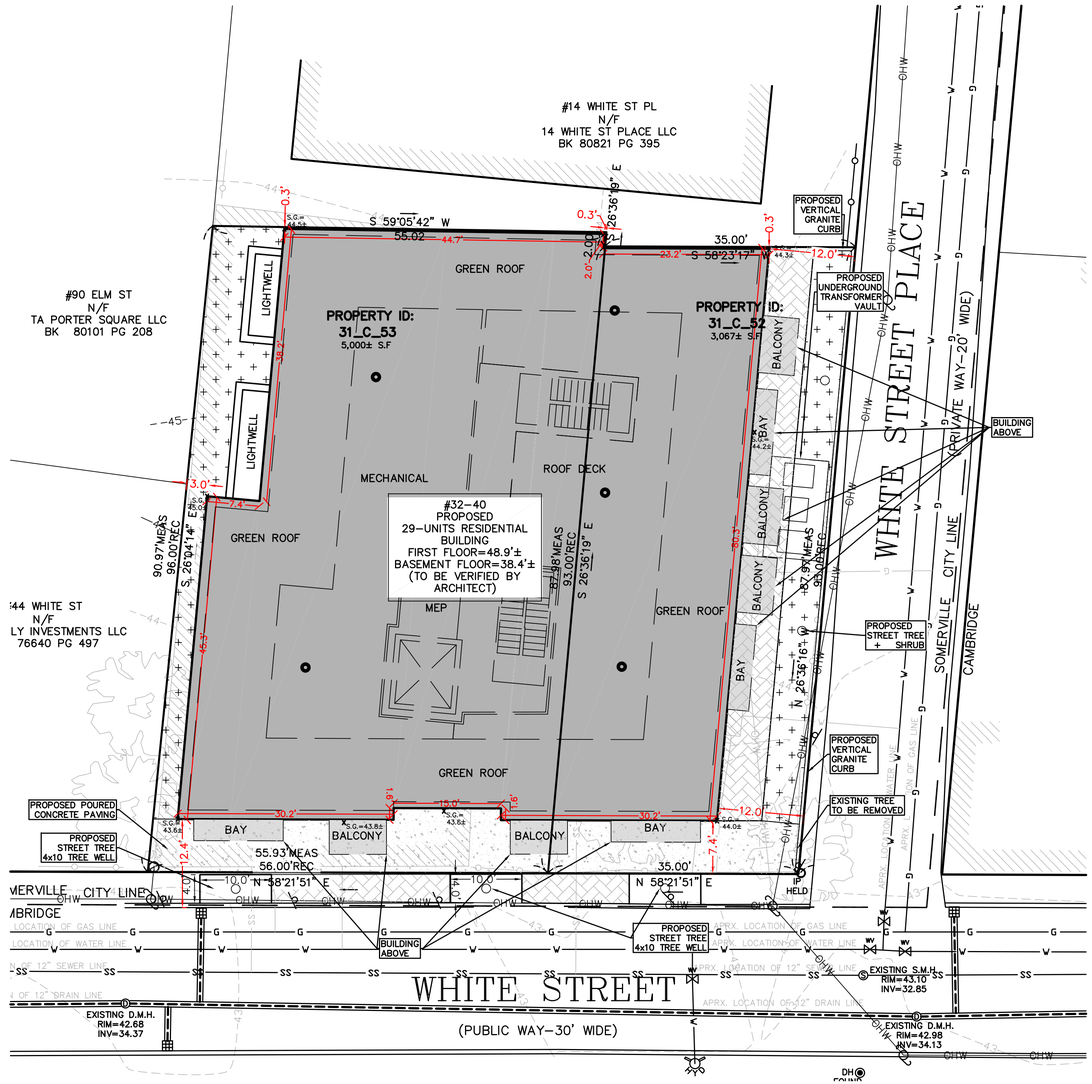
8. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATER VALVES, ETC. AND COMPILED FROM PLANS SUPPLIED BY GOVERNMENT AGENCIES.

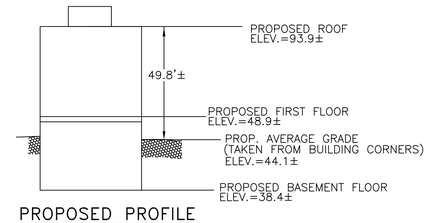
9. THE ELEVATIONS SHOWN ARE ON CITY OF CAMBRIDGE DATUM.

10. ZONING INFORMATION: MR4

LEGEND

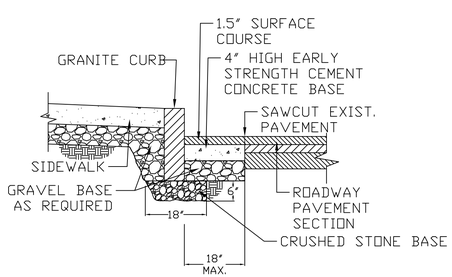
⊡	BOUND
O	IRON PIN/PIPE
⊙	STONE POST
	TREE
	TREE STUMP
	SHRUBS/FLOWERS
	SIGN
o	BOLLARD
Ⓢ	SEWER MANHOLE
Ⓓ	DRAIN MANHOLE
▦	CATCH BASIN
Ⓦ	WATER MANHOLE
WV	WATER VALVE
	HYDRANT
GV	GAS VALVE
Ⓔ	ELECTRIC MANHOLE
EL	ELECTRIC HANDHOLE
	UTILITY POLE
	LIGHT POLE
Ⓜ	MANHOLE
×46.00	SPOT GRADE
TW	TOP OF WALL
BW	BOTTOM OF WALL
	EXISTING BUILDING
	RETAINING WALL
	STONE WALL
	FENCE
S	SEWER LINE
D	DRAIN LINE
W	WATER LINE
G	GAS LINE
E	UNDERGROUND ELECTRIC LINE
OHW	OVERHEAD WIRES
145	CONTOUR LINE (MJR)
146	CONTOUR LINE (MNR)





PROPOSED PROFILE
NOT TO SCALE

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.



*6" REVEAL TYPICAL. REVEAL MAY VARY FROM 3" TO 9" WITH DPW APPROVAL.

VERTICAL GRANITE CURB DETAIL
N.T.S.

ZONING LEGEND

MAIN BUILDING

ZONING DISTRICT: MR4

	REQUIRED	EXISTING	PROPOSED
MIN. LOT WIDTH	30'	90.9'	90.9'
CURB SETBACK	12'	5.7'	12.3'
MIN. YARD FRONT	2'	0.7'	7.4'
SIDE	0'	0.7'	0.3'
BUILDING HEIGHT	50'	24.6'	49.8'

SCALE 1"=10'				
DATE 05/29/2026	REV	DATE	REVISION	BY
SHEET 1				
PLAN NO. 1 OF 1				
CLIENT:				
DRAWN BY RV				
CHKD BY PJN				
APPD BY PJN				

32-40 WHITE STREET
SOMERVILLE
MASSACHUSETTS

PROPOSED PLOT PLAN

SHEET NO. 1

PETER NOLAN & ASSOCIATES LLC
LAND SURVEYORS/CIVIL ENGINEERING CONSULTANTS
80 JEWETT ST, (SUITE 1) NEWTON, MA 02458
PHONE: 857 891 7478/617 782 1533
EMAIL: pnolan@pnasurveyors.com

GENERAL NOTES

1. THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER OF ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER.
2. IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES ALL NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES, AND POLICE OFFICERS.
3. ALL WORK SHALL CONFORM TO CITY OF SOMERVILLE GENERAL CONSTRUCTION STANDARDS.
4. THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO A LEGAL DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR.
6. THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES OR MUNICIPAL DEPARTMENTS SUPPLEMENTED BY FIELD IDENTIFICATION WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL CONTRACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 1-800-322-4844.
7. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES, THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
8. NO LEDGE, BOULDERS, OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN 6" OF THE WATER IN THE TRENCH, NOR ARE THEY TO BE USED FOR BACKFILL FOR THE FIRST 12" ABOVE THE PIPES.
9. PAVEMENT AREA SHALL BE PAVED TO A THICKNESS AS SHOWN ON THE PLANS MEASURED AFTER COMPACTION, WITH A BINDER COURSE AND TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.
10. BASE MATERIAL SHALL BE CLEAN BANK RUN GRAVEL, CONFORMING TO M.D.P.W. M1.03.1, WITH NO STONES LARGER THAN THREE (3) INCHES IN DIAMETER AND SHALL BE PLACED AND ROLLED WITH AT LEAST A TEN TON ROLLER. THE SURFACES SHALL BE WET DURING ROLLING TO BIND THE MATERIAL. ALL STONES OF 4" DIAMETER OR LARGER SHALL BE REMOVED FROM THE SUB-BASE PRIOR TO PLACING BASE MATERIAL.
11. ALL EXISTING PAVING TO BE DISTURBED SHALL BE CUT ALONG A STRAIGHT LINE THROUGH ITS ENTIRE THICKNESS. BUTT THE NEW PAVING INTO THE EXISTING PAVEMENT TO REMAIN.
12. ANY PAVEMENT REMOVED FOR UTILITY TRENCH EXCAVATION OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH A PAVEMENT SECTION CONSISTING OF 1" WEAR COURSE OVERLYING A 1 1/2" BINDER COURSE OVERLYING A 8" COMPACTED GRAVEL BASE COURSE.
13. THE CONTRACTOR SHALL APPLY FOR A STREET OPENING AND UTILITY CONNECTION PERMITS AND SIDEWALK CROSSING PERMIT WITH THE CITY OF SOMERVILLE DPW.
14. CONTRACTOR TO ENSURE THAT ALL SURFACE WATER IS DIVERTED AWAY FROM BUILDING FOUNDATION DURING FINAL GRADING.

NOTES:

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9. THE ELEVATIONS SHOWN ARE ON CITY OF CAMBRIDGE DATUM.
10. ZONING INFORMATION: MR4

GENERAL SOIL CONDITION:

THE FOLLOWING INFORMATION IS TAKEN FROM THE GEOTECHNICAL REPORT PERFORMED AT 32 & 40 WHITE ST, SOMERVILLE, MA PERFORMED BY LISA R. CASSELLI, P.E. (GEOTECHNICAL PARTNERSHIP, INC)
DATED: 10/24/2023

0 - 1'	SOD OVER TOPSOIL
1' - 5'	URBAN FILL (COARSE TO FINE SAND, LITTLE SILT AND FEW FINE GRAVEL)
5' - 22'	GLACIAL FLUVIAL (COARSE TO FINE SAND)

ESTIMATED SEASONAL HIGH GROUND WATER LEVEL 21 FT DEPTH (APROX. EL. 21.1-22.9)
NOT GROUNDWATER ENCOUNTERED

REFER TO FULL GEOTECH REPORT FOR FURTHER INFORMATION.

Overall summary Table (HydroCAD results)

Storm Event	Runoff flow rate (cfs)		Runoff Volume (cf)	
	Existing	Proposed	Existing	Proposed
2-Year	0.46	0.08	1,585	294
10-Year	0.76	0.15	2,647	549
25-Year	0.96	0.34	3,347	985
100-Year	1.27	0.89	4,427	1,734

DRAINAGE AREA SUMMARY

EXISTING ROOF AREA (#32 BUILDING) = 1,134.9 S.F.
EXISTING ROOF AREA (#40 BUILDING) = 4,059.2 S.F.
EXISTING DRIVEWAY = 822.8 S.F.
EXISTING IMPERVIOUS (WALKWAY/STEPS/PAVED AREAS) = 101.5 S.F.
EXISTING LANDSCAPE AREA = 1,948.6 S.F.

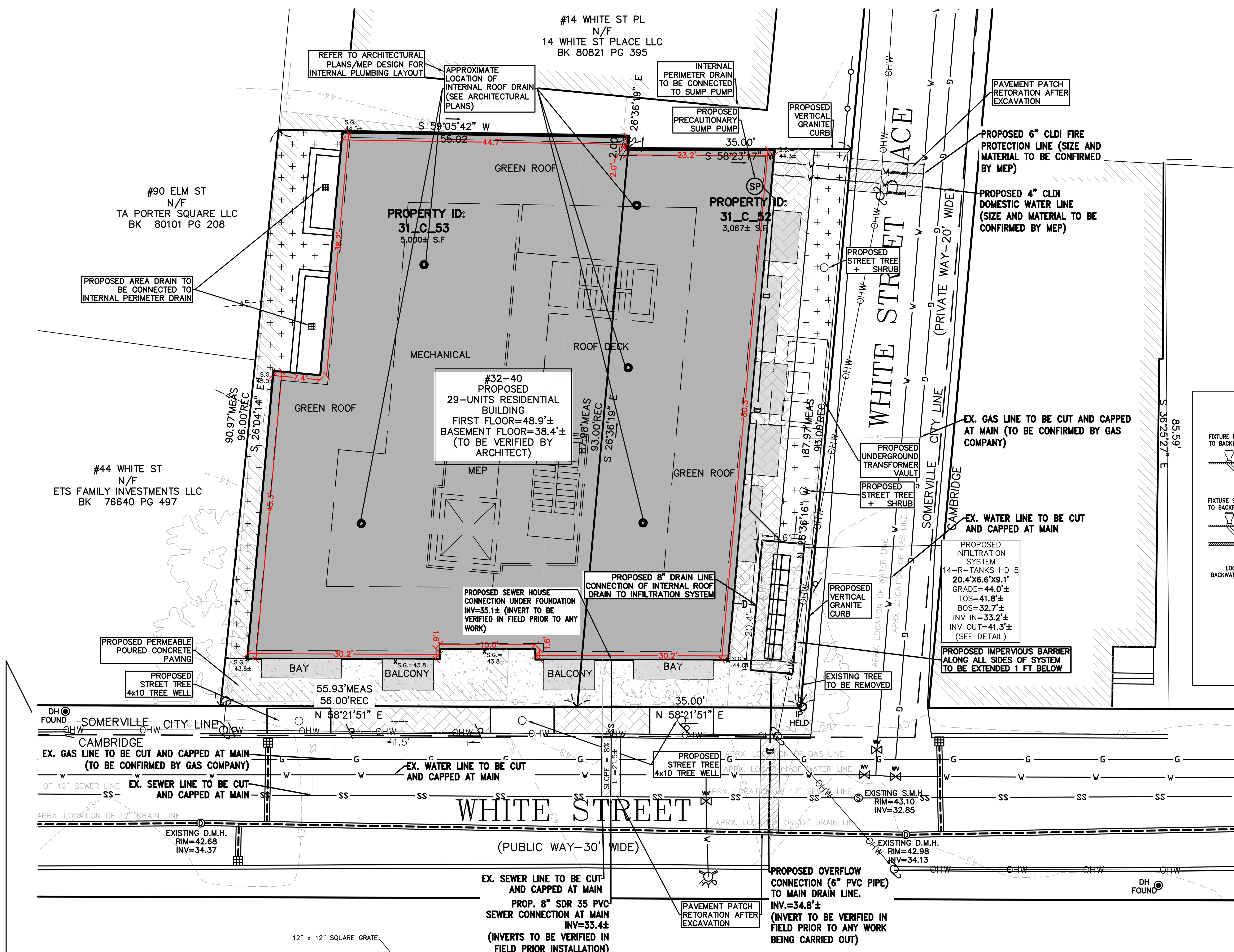
PROPOSED ROOF AREA = 3,712.8 S.F.
PROPOSED GREEN ROOF = 2,134.0 S.F.
PROPOSED PERMEABLE PAVERS (WALKWAY) = 439.0 S.F.
PROPOSED IMPERVIOUS (LIGHTWELL/CURB/WALKWAY) = 1,024.7 S.F
PROPOSED LANDSCAPE AREA = 756.5 S.F.

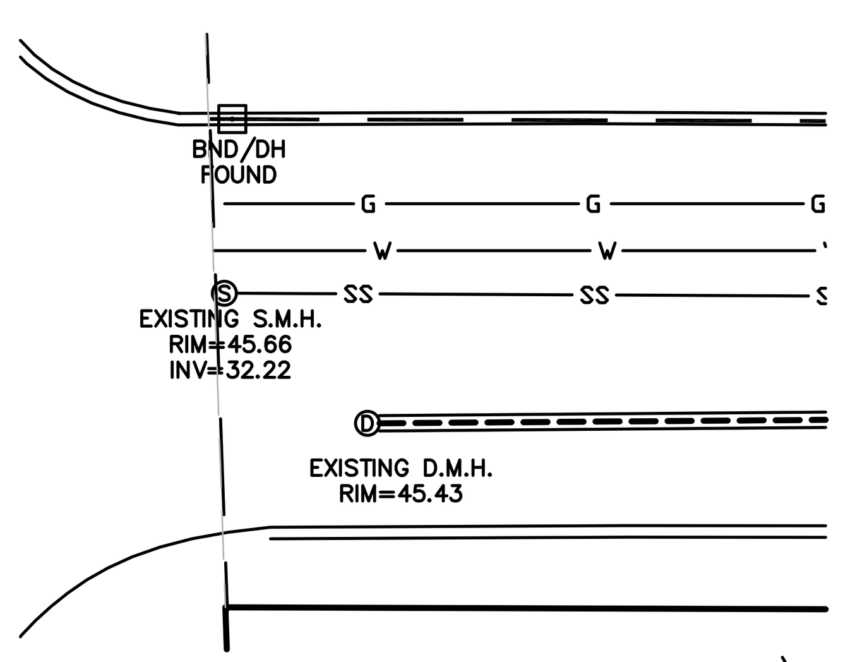
TOTAL EXISTING IMPERVIOUS AREA = 6,118.2 S.F.
TOTAL PROPOSED IMPERVIOUS AREA = 4,737.5 S.F.
TOTAL PROPOSED PERMEABLE AREAS = 2,573.0 S.F.

TOTAL DECREASE IN IMPERVIOUS AREA = 1,380.7 S.F.

LEGEND

SS	SEWER LINE
S	SEWER MANHOLE
W	WATER LINE
G	GAS LINE
	UTILITY POLE
GV	GAS VALVE
E	OVERHEAD ELECTRIC SERVICE
WV	WATER VALVE
	CATCH BASIN
	FENCE
205	CONTOUR LINE (MJR)
195	CONTOUR LINE (MNR)
X	SPOT GRADE
D	DRAIN MANHOLE
	HYDRANT
	TREE
	SHORT TERM BIKE SPACES



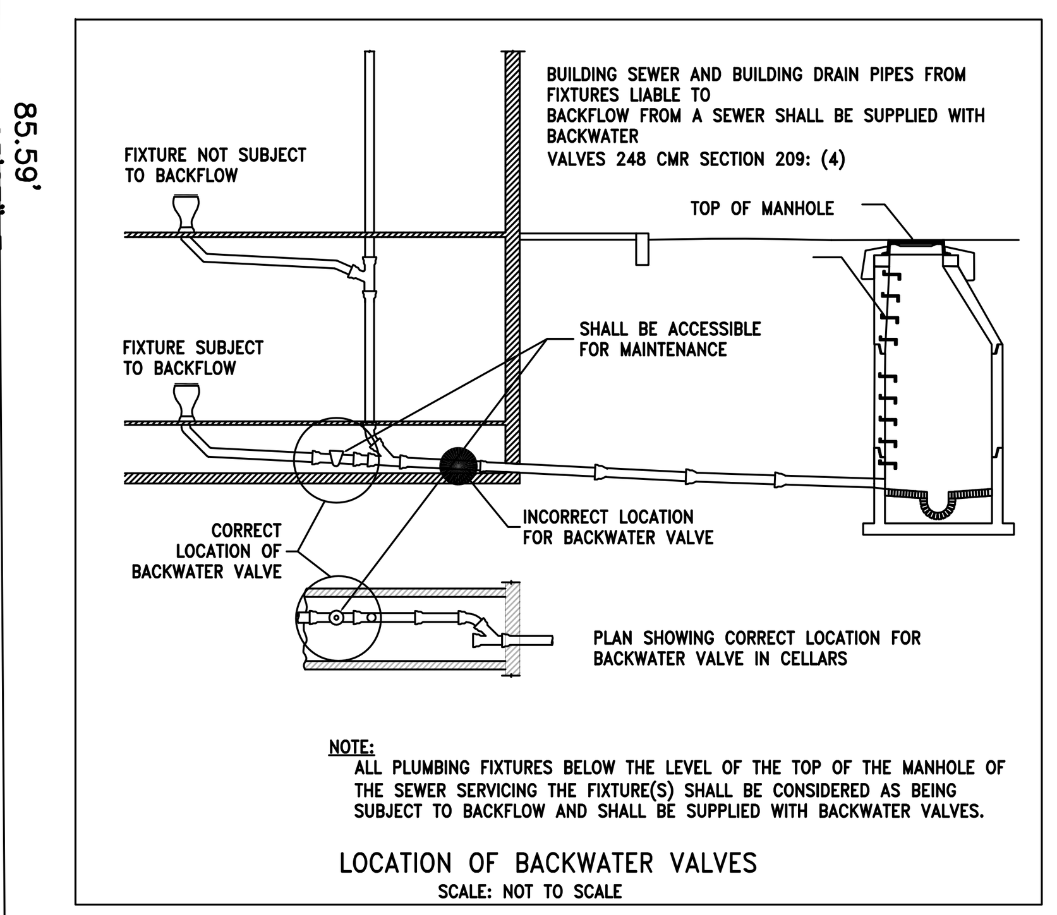


BACKFLOW PREVENTERS MUST BE INSTALLED IN ALL NEW BASEMENT FIXTURES

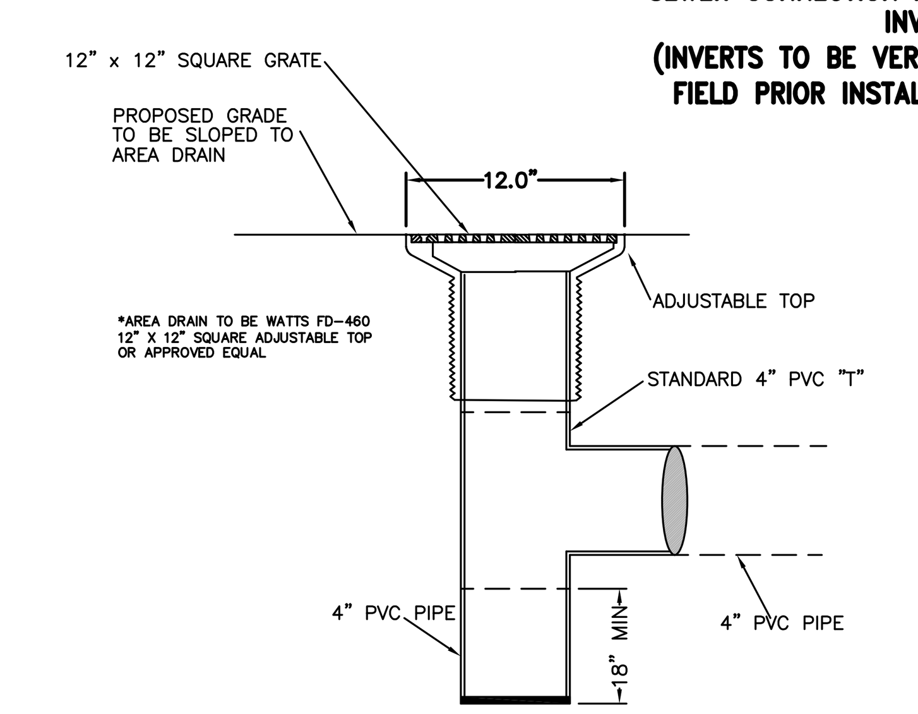
REFER TO ARCHITECTURAL PLANS FOR ALL ZONING RELATED INFORMATION

ALL SURFACE WATER RUNOFF SHALL BE DIRECTED AWAY FROM BUILDING FOUNDATION AND AWAY FROM NEIGHBORING PROPERTY

SEE LANDSCAPE PLAN FOR FENCE DETAILS AND MATERIALS



LOCATION OF BACKWATER VALVES
SCALE: NOT TO SCALE



FLOOR DRAIN DETAIL
NOT TO SCALE

AREA LEGEND

	PROPOSED PERMEABLE PAVERS
	PROPOSED ROOF AREA
	PROPOSED LANDSCAPED AREA

*** PER TITLE V, SEWER FLOW COMMERCIAL/RESIDENTIAL (G.P.D)**

EXISTING (COMMERCIAL) = [4,059.2 S.F. (RETAIL STORE #40) /1000] x 50 G.P.D.) = 203 G.P.D
EXISTING (RESIDENTIAL #32) = (4 BEDROOMS X 110 G.P.D.) = 440 G.P.D.
TOTAL EXISTING = 643 G.P.D.

PROPOSED (RESIDENTIAL) = (36 BEDROOMS x 110 G.P.D.) = 3,960 G.P.D

THEREFORE, PROPOSED INCREASE FLOW = 3,097 G.P.D
MITIGATION FEE = $14.35 X 3,097 G.P.D. = $44,441.95

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

PETER NOLAN & ASSOCIATES, LLC
LAND SURVEYORS/CIVIL ENGINEERING CONSULTANTS
80 JEWETT ST, (SUITE 1)
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617-782-1533
Fax:617-2025691

SPRUHAN ENGINEERING, P.C.
80 JEWETT ST, (SUITE 1)
NEWTON, MA 02458
Tel: 617-816-0722
Email:edmond@spruhaneng.com

COMMONWEALTH OF MASSACHUSETTS
EDMOND T. SPRUHAN
CIVIL
No. 53316
REGISTERED PROFESSIONAL ENGINEER

32-40 WHITE ST, SOMERVILLE, MASSACHUSETTS.

CIVIL PLANS

REVISION BLOCK

BY	DESCRIPTION	DATE

DATE:	05/29/2026
DRAWN BY:	R.Y
CHECKED BY:	G.P
APPROVED BY:	E.S

CIVIL PLAN

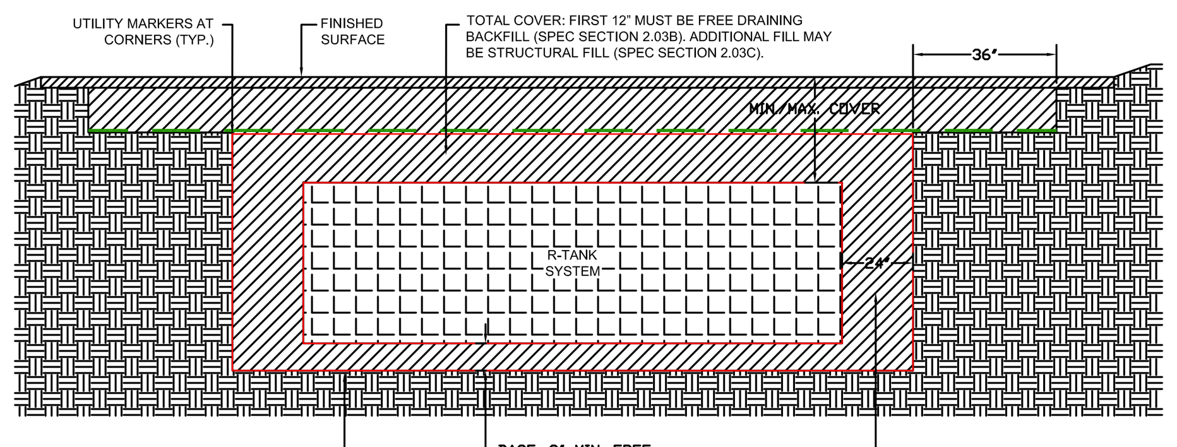
SHEET 1 OF 3

NOTES:
1. INSTALLATIONS PER THIS DETAIL MEET GUIDELINES OF HL-93 LOADING PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
2. FOR INFILTRATION APPLICATIONS, UNCOMPACTED FREE DRAINING BACKFILL (SPEC SECTION 2.03A) TO PROVIDE A LEVEL BASE. SURFACE MUST BE SMOOTH, FREE OF LUMPS OR DEBRIS, AND EXTEND 2' BEYOND R-TANK FOOTPRINT. THE ENGINEER OF RECORD IS RESPONSIBLE FOR ASSESSING THE BEARING CAPACITY OF THE SUBGRADE, AND BASE.
3. FOR INSTALLATIONS IN LANDSCAPED AREAS, THE INSTALLATION OF TREES IS PROHIBITED ABOVE THE R-TANK UNITS. PLEASE CONTACT YOUR LOCAL FERGUSON WATERWORKS REPRESENTATIVE FOR MORE INFORMATION.
4. THE R-TANK SYSTEM IS NOT DESIGNED TO SUPPORT LOADS FROM BUILDINGS OR STRUCTURES. THEREFORE, THE ENGINEER OF RECORD MUST COORDINATE WITH THE PROPER DISCIPLINES TO ENSURE NO STRUCTURAL LOADS ARE IMPARTED UPON THE SYSTEM AND ANY INFILTRATION FROM THE SYSTEM HAS BEEN ACCOUNTED FOR IN THE FOUNDATION DESIGN.

R-TANK UNIT LOAD RATING

UNIT TYPE	COMPRESSION STRENGTH	HS-20 MIN. COVER*	HS-25 MIN. COVER*	MAX. COVER*
HD	33.0 PSI	20"	24"	6.99'
SD	42.0 PSI	18"	21"	9.99'
MD	64.0 PSI	15"	18"	9.99'
UD	134.0 PSI	12"	15"	6.99'

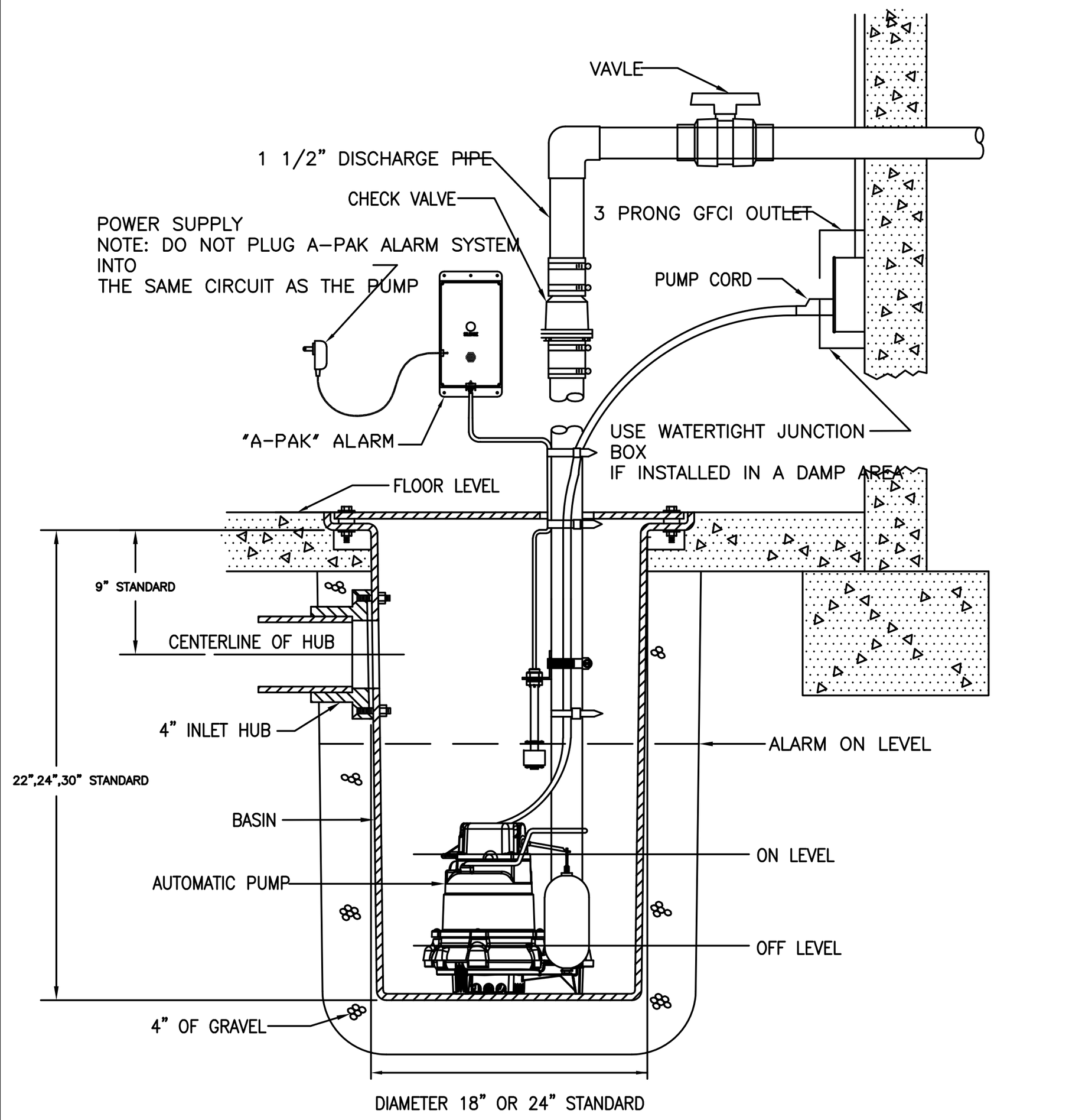
* MINIMUM AND MAXIMUM COVER ARE MEASURED FROM THE TOP OF THE R-TANK UNIT TO THE TOP OF THE FINISHED SURFACE.



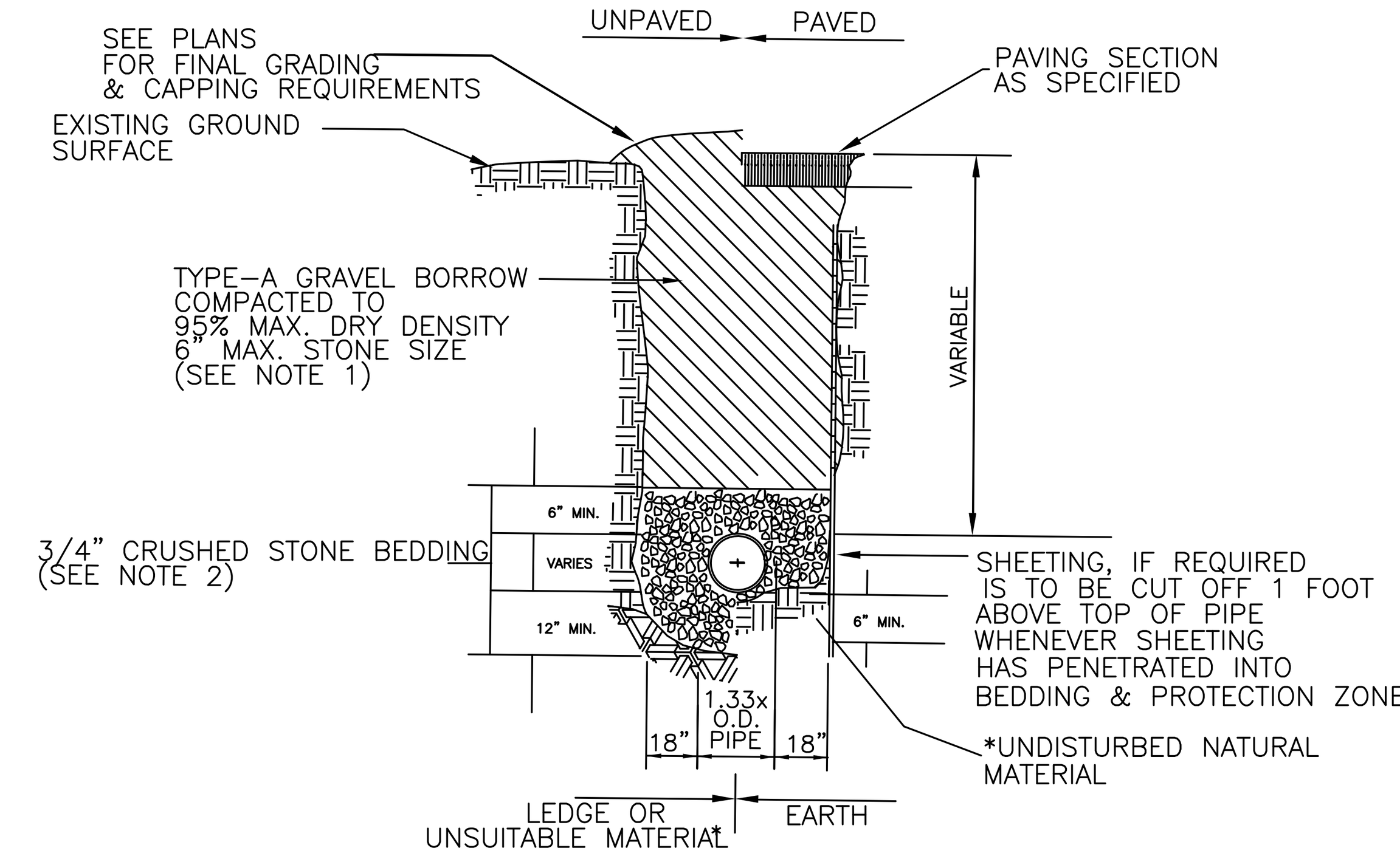
FERGUSON WATERWORKS
FOR ADDITIONAL INFORMATION PLEASE VISIT: www.fergusongss.com

FERGUSON WATERWORKS – R–TANK HD, SD, UD VEHICULAR LOAD SECTION DETAIL

DRAWN BY: JKB | DATE: 5/29/2026 | SHEET NO.: 1 of 1



SUMP PUMP



• SUITABILITY OF MATERIAL IS TO BE DETERMINED BY THE TOWN OF BROOKLINE.

1. GRAVEL BORROW SHALL CONFORM TO MASS HIGHWAY SPECIFICATION M1.03.0
2. CRUSHED STONE BEDDING SHALL CONFORM TO MASS HIGHWAY SPECIFICATION M2.01.1

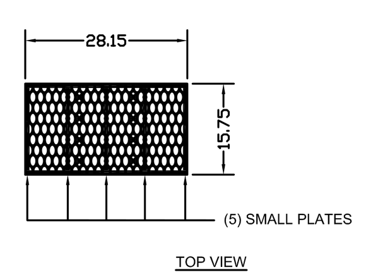
GRAVITY SEWER TRENCH DETAIL

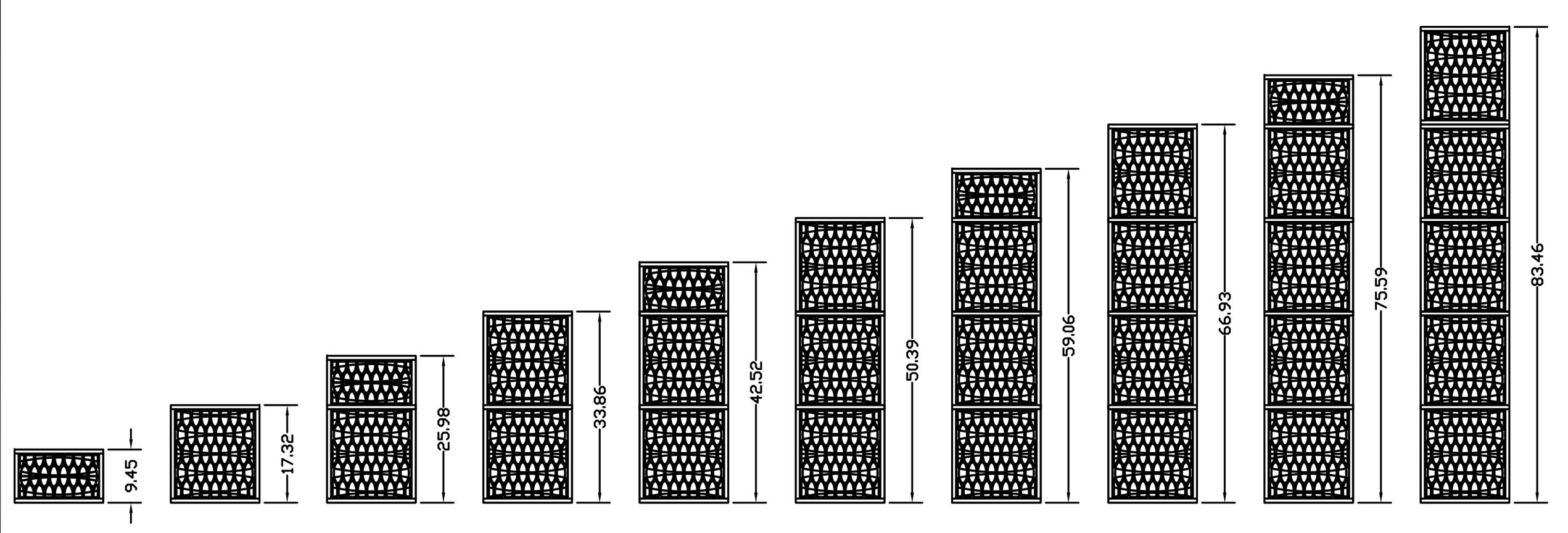
N.T.S.

[redacted]

UNIT TYPE	WIDTH	LENGTH	HEIGHT	STORAGE VOLUME	WEIGHT
MINI	15.75"	28.15"	9.45"	2.30 CF	10.90 LBS.
SINGLE	15.75"	28.15"	17.32"	4.22 CF	17.30 LBS.
SINGLE+MINI	15.75"	28.15"	25.98"	6.33 CF	25.90 LBS.
DOUBLE	15.75"	28.15"	33.86"	8.25 CF	32.30 LBS.
DOUBLE+MINI	15.75"	28.15"	42.52"	10.36 CF	41.00 LBS.
TRIPLE	15.75"	28.15"	50.39"	12.28 CF	47.40 LBS.
TRIPLE+MINI	15.75"	28.15"	59.06"	14.39 CF	56.00 LBS.
QUAD	15.75"	28.15"	66.93"	16.31 CF	62.40 LBS.
QUAD+MINI	15.75"	28.15"	75.59"	18.42 CF	63.80 LBS.
PENTA	15.75"	28.15"	83.46"	20.34 CF	69.30 LBS.

NOTES:
1. R-TANK HD HAS AN INTERNAL VOID SPACE OF 95% AND A SURFACE AREA VOID OF 90%.
2. R-TANK HD HAS A MAXIMUM COMPRESSION STRENGTH OF 33.4 PSI, (MODULE ONLY).
3. R-TANK HD IS MADE FROM 100% RECYCLED POLYPROPYLENE.
4. R-TANK HD IS COMPRISED OF 5 SMALL WALLS PER UNITS.

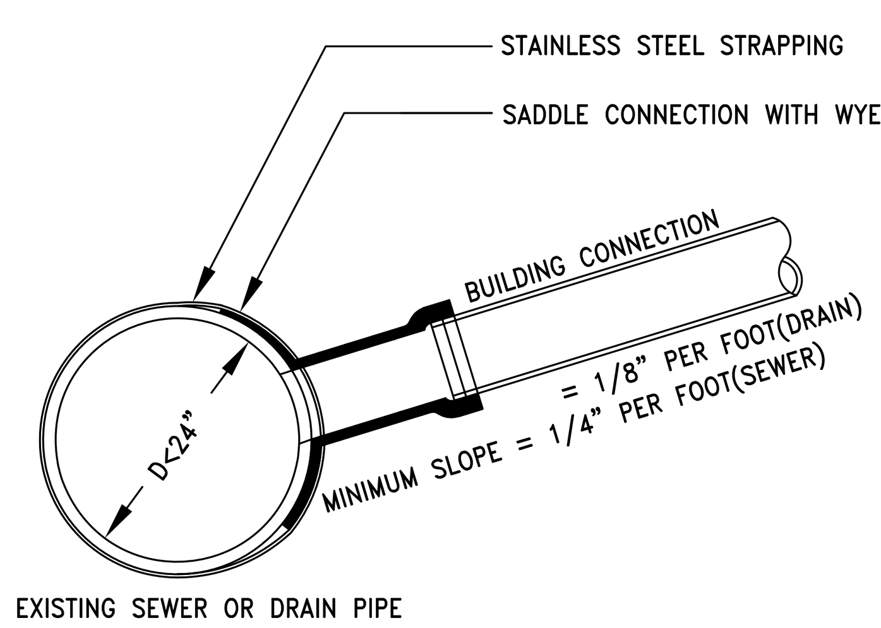




FERGUSON WATERWORKS
FOR ADDITIONAL INFORMATION PLEASE VISIT: www.fergusongss.com

R–TANK^{HD} MODULE DETAIL

DRAWN BY: JKB | DATE: 5/29/2026 | SHEET NO.: 1 of 1

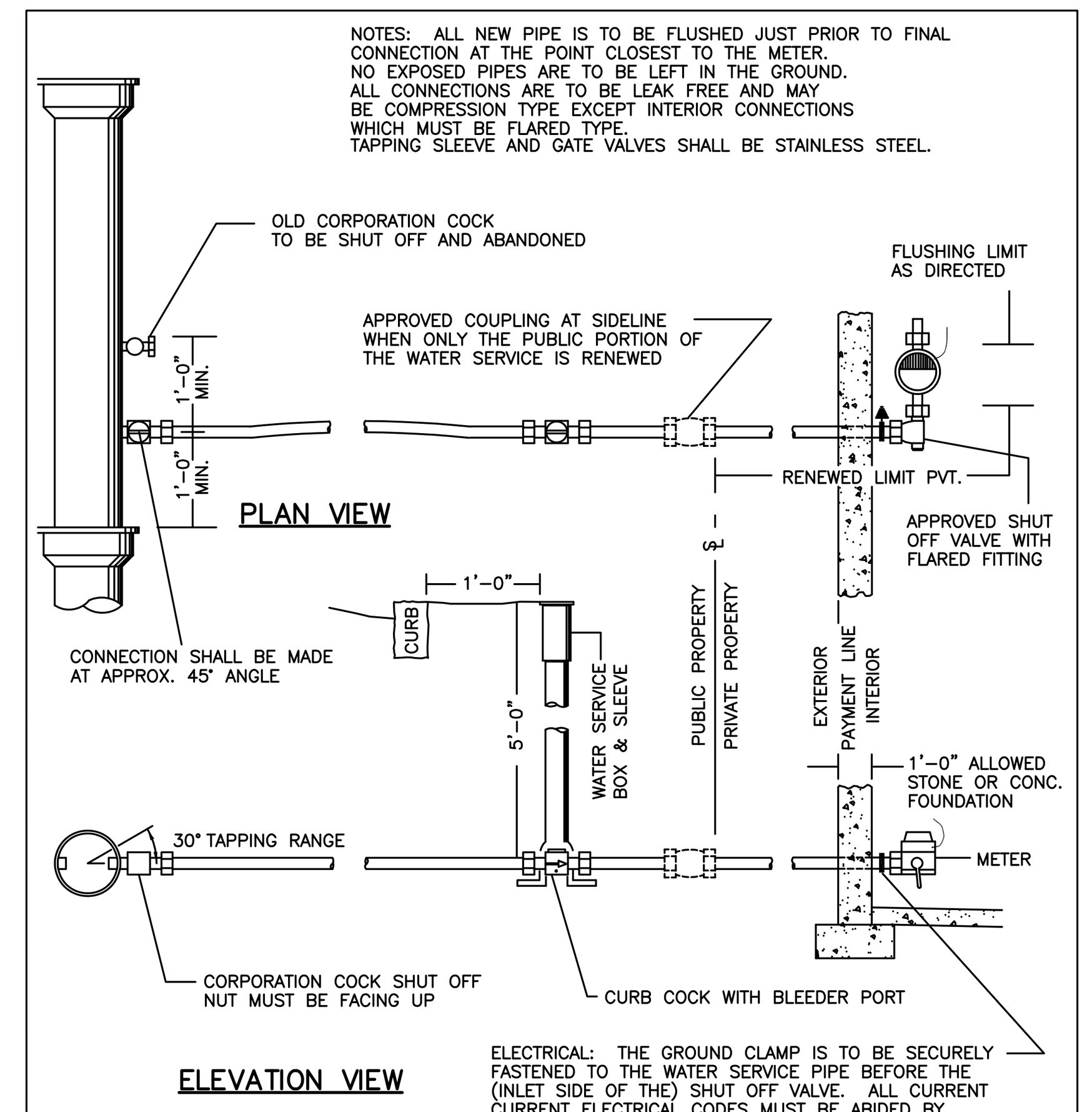


NOTES:
1. FULL PVC OR IRON SADDLE MAY BE USED TO CONNECT TO EXISTING PVC, CLAY, CONCRETE, OR IRON PIPE.
2. SADDLES MUST HAVE RUBBER GASKETS AND SHALL BE TIGHTENED WITH STRAPS. SADDLES WILL NOT BE CEMENTED ONTO THE PIPE.
3. FULL WYE CONNECTION FITTINGS MAY BE USED
4. PIPE SHALL BE CUT TO CONFORM TO THE OPENING IN THE SADDLE.
5. CONNECTIONS DIRECTLY INTO THE EXISTING PIPE WITHOUT A SADDLE OR A FULL WYE FITTING ARE NOT ALLOWED.

TYPICAL SADDLE CONNECTION TO EXISTING SEWER OR DRAIN

SCALE: NOT TO SCALE

NOTES: ALL NEW PIPE IS TO BE FLUSHED JUST PRIOR TO FINAL CONNECTION AT THE POINT CLOSEST TO THE METER.
NO EXPOSED PIPES ARE TO BE LEFT IN THE GROUND.
ALL CONNECTIONS ARE TO BE LEAK FREE AND MAY BE COMPRESSION TYPE EXCEPT INTERIOR CONNECTIONS WHICH MUST BE FLARED TYPE.
TAPPING SLEEVE AND GATE VALVES SHALL BE STAINLESS STEEL.



ELECTRICAL: THE GROUND CLAMP IS TO BE SECURELY FASTENED TO THE WATER SERVICE PIPE BEFORE THE (INLET SIDE OF THE) SHUT OFF VALVE. ALL CURRENT CURRENT ELECTRICAL CODES MUST BE ABIDED BY.

TYPICAL WATER SERVICE CONFIGURATIONS

SCALE: NOT TO SCALE

[redacted]

UNIT TYPE	WIDTH	LENGTH	HEIGHT	STORAGE VOLUME	WEIGHT
SINGLE ACCESS	15.75"	28.15"	17.32"	4.22 CF	17.30 LBS.
SINGLE+MINI ACCESS	15.75"	28.15"	25.98"	6.33 CF	25.90 LBS.
DOUBLE ACCESS	15.75"	28.15"	33.86"	8.25 CF	32.30 LBS.
DOUBLE+MINI ACCESS	15.75"	28.15"	42.52"	10.36 CF	41.00 LBS.
TRIPLE ACCESS	15.75"	28.15"	50.39"	12.28 CF	47.40 LBS.
TRIPLE+MINI ACCESS	15.75"	28.15"	59.06"	14.39 CF	56.00 LBS.
QUAD ACCESS	15.75"	28.15"	66.93"	16.31 CF	62.40 LBS.
QUAD+MINI ACCESS	15.75"	28.15"	75.59"	18.42 CF	63.80 LBS.
PENTA ACCESS	15.75"	28.15"	83.46"	20.34 CF	69.30 LBS.

NOTES:
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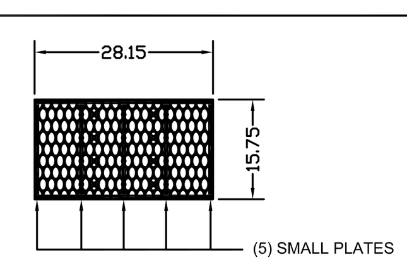
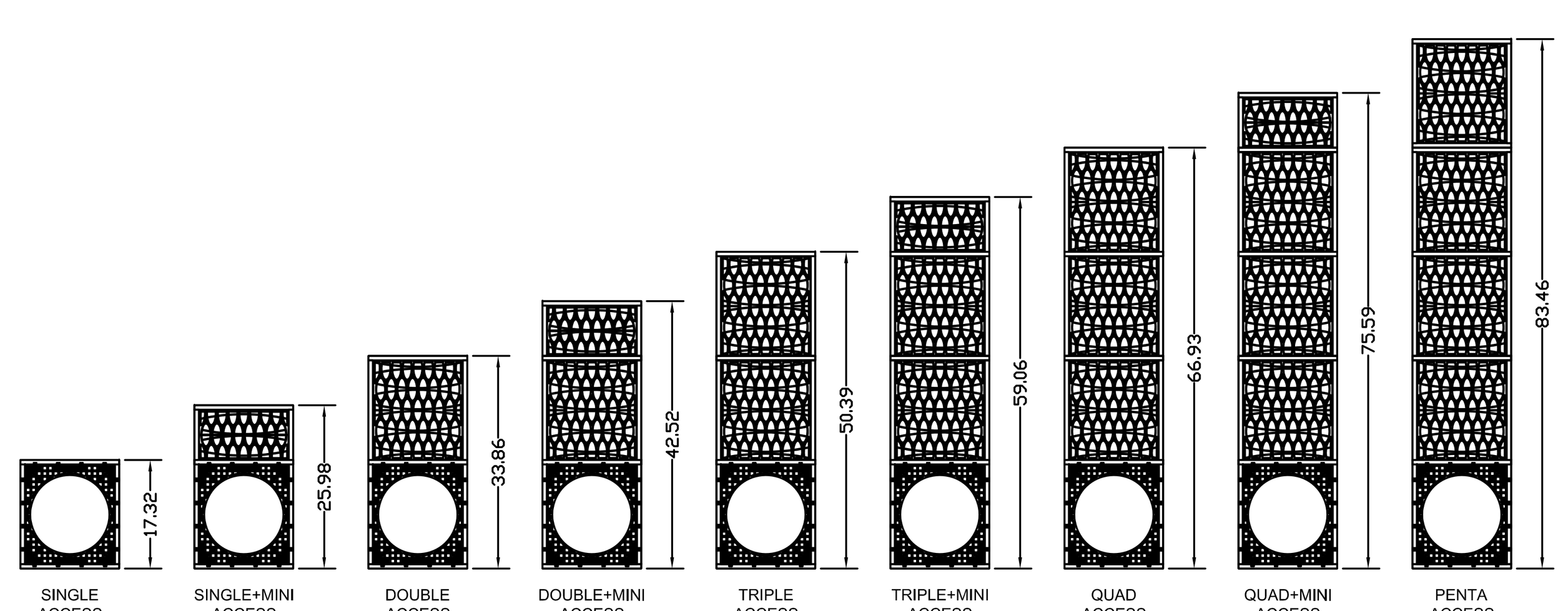
3. R-TANK HD IS MADE FROM 100% RECYCLED POLYPROPYLENE.
4. R-TANK HD IS COMPRISED OF 5 SMALL WALLS PER UNITS.

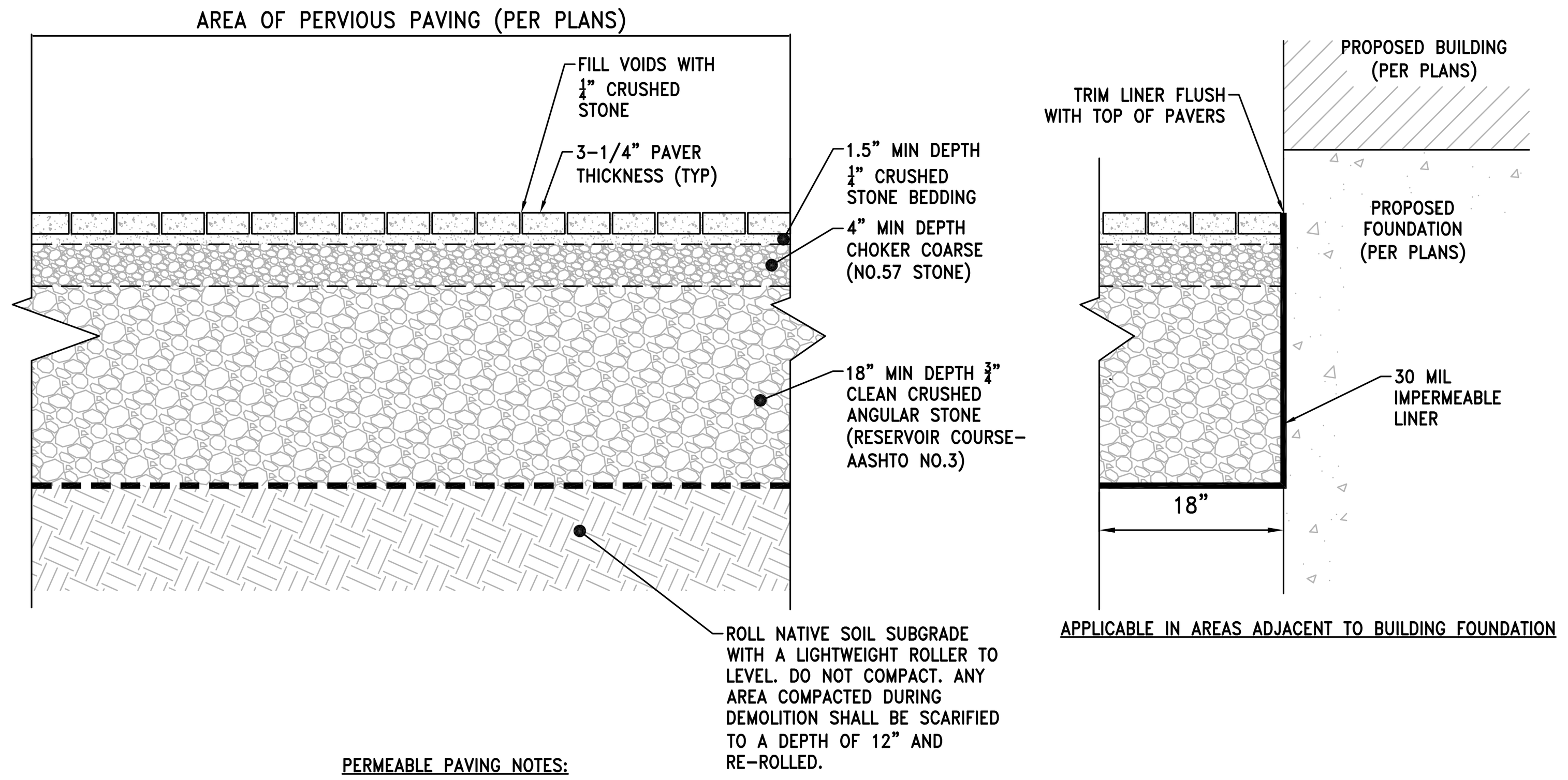




FERGUSON WATERWORKS
FOR ADDITIONAL INFORMATION PLEASE VISIT: www.fergusongss.com

R–TANK^{HD} ACCESS MODULE DETAIL

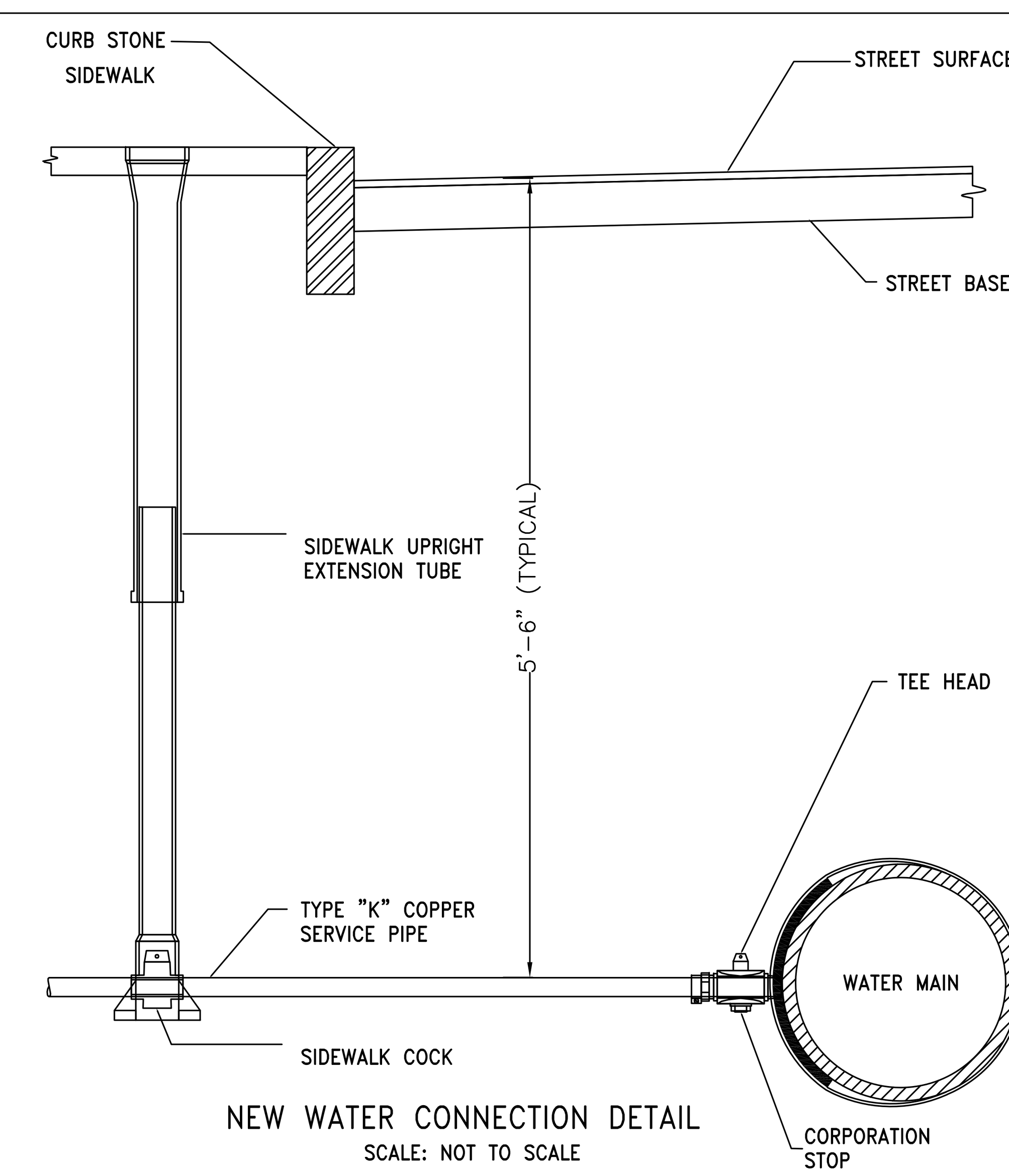
DRAWN BY: JKB | DATE: 5/29/2026 | SHEET NO.: 1 of 1



PERMEABLE PAVING NOTES:
1. PAVERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS.

PERVIOUS PAVER DETAIL

SCALE: NOT TO SCALE



NEW WATER CONNECTION DETAIL

SCALE: NOT TO SCALE

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32–40 WHITE ST, SOMERVILLE, MASSACHUSETTS.

CIVIL PLANS

REVISION BLOCK

BY	DESCRIPTION	DATE

DATE:	05/29/2026
DRAWN BY:	R.V
CHECKED BY:	G.P
APPROVED BY:	E.S

DETAILS

SHEET 2 OF 3

EROSION CONTROL NOTES

1. THE EROSION CONTROL PLANS IN THIS SET SHALL BE REVIEWED AND IMPLEMENTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL WORK WITH THE PROJECT'S ENGINEER THROUGHOUT CONSTRUCTION TO ENSURE THE SITE IS PROPERLY PROTECTED FROM POSSIBLE POLLUTANTS. THE ENGINEER HAS AUTHORIZATION TO ADD OR REMOVE BMP MEASURES THROUGHOUT CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING SITE EROSION CONTROL AT ALL TIMES.
3. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND THE PERMITTEE TO ENSURE THAT EROSION DOES NOT OCCUR FROM ANY ACTIVITY DURING OR AFTER PROJECT CONSTRUCTION. ADDITIONAL MEASURES, BEYOND THOSE SPECIFIED, MAY BE REQUIRED BY THE PLANNING DIRECTOR AS DEEMED NECESSARY TO CONTROL ACCELERATED EROSION.
4. AT THE END OF EACH WORKDAY, AT THE END OF EACH WORKWEEK, THE CONTRACTOR SHALL IMPLEMENT ALL TEMPORARY MEASURES NECESSARY TO PREVENT EROSION AND SILTATION, UNTIL THE PROJECT HAS BEEN FINALIZED. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, DIRECT SEEDING OF THE AFFECTED AREAS, STRAW MULCHING, AND/OR INSTALLATION OF STRAW BALES DAMS/SILT FENCES.
5. DURING CONSTRUCTION, NO TURBID WATER SHALL BE PERMITTED TO LEAVE THE SITE. USE OF SILT AND GREASE TRAPS, FILTER BERMS, HAY BALES OR SILT FENCES SHALL BE USED TO PREVENT SUCH DISCHARGE.
6. ALL AREAS ON- AND OFF-SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PERMANENTLY LANDSCAPED PER PLAN, SHALL BE PROTECTED BY MULCHING AND/OR SEEDING.
7. ALL EXCAVATED MATERIAL SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE OR DISPOSED OF ON-SITE IN A MANNER THAT WILL NOT CAUSE EROSION.
8. ANY MATERIAL STOCKPILED, FOR LONGER THAN 14 DAYS, DURING CONSTRUCTION SHALL BE COVERED WITH PLASTIC.
9. UPON COMPLETION OF CONSTRUCTION, ALL REMAINING EXPOSED SOILS SHALL BE PERMANENTLY REVEGETATED.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ADDITIONAL MEASURES NECESSARY TO CONTROL SITE EROSION AND PREVENT SEDIMENT TRANSPORT OFF-SITE ARE IMPLEMENTED.
11. ALL SPILLS AND/OR LEAKS SHALL BE IMMEDIATELY CLEANED UP AND MITIGATED.

CONSTRUCTION MATERIALS

- ALL LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.) SHALL BE COVERED AND BERMED.
- ALL CHEMICALS SHALL BE STORED IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
- EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION SHALL BE MINIMIZED. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E. POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.).
- BEST MANAGEMENT PRACTICES TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS SHALL BE IMPLEMENTED.

WASTE MANAGEMENT

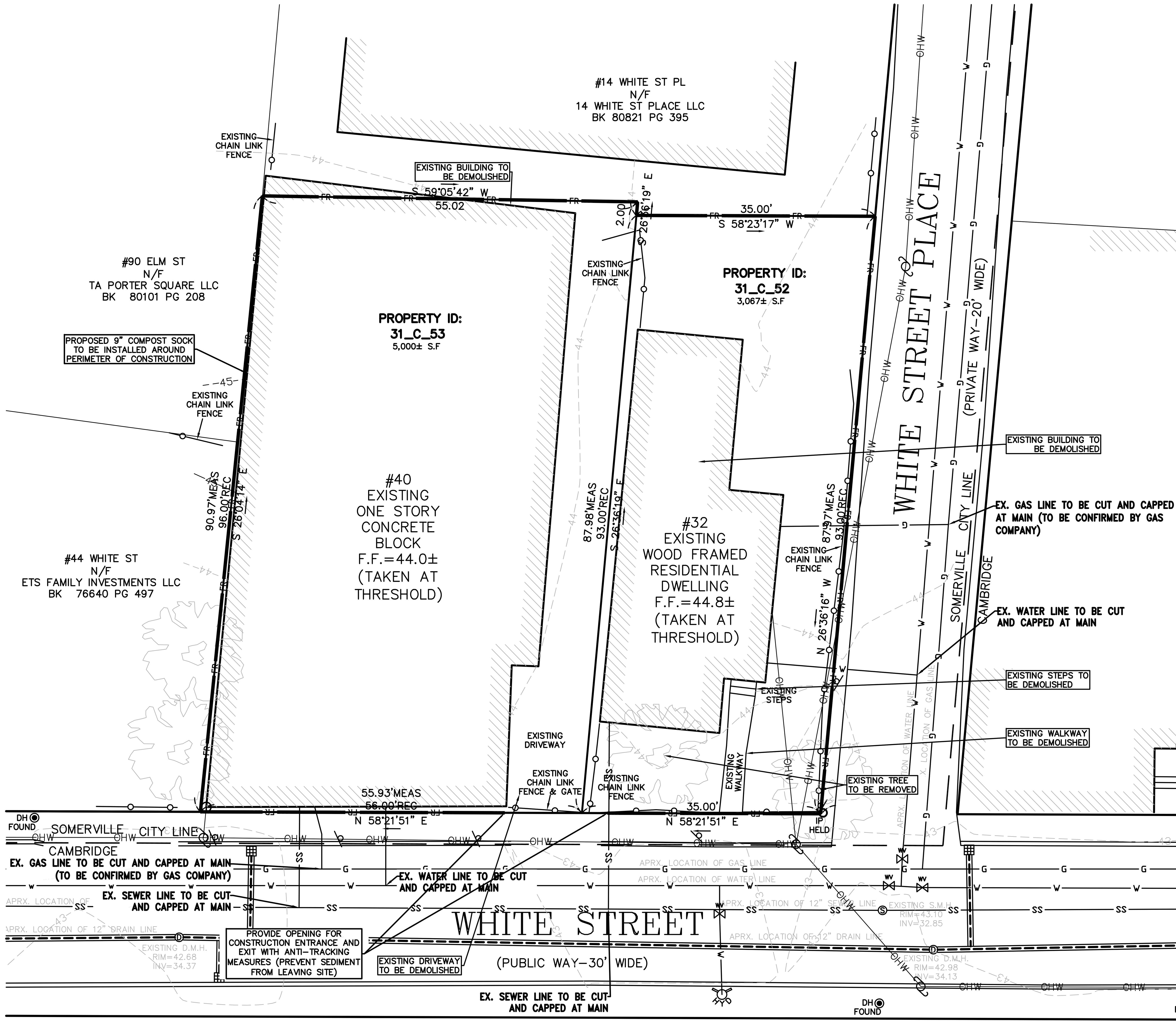
- DISPOSAL OF ANY RINSE OR WASH WATERS OR MATERIALS ON IMPERVIOUS OR PERVIOUS SITE SURFACES OR INTO THE STORM DRAIN SYSTEM SHALL BE PREVENTED.
- SANITATION FACILITIES SHALL BE CONTAINED (E.G. PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER, AND SHALL BE LOCATED A MINIMUM 20 FEET AWAY FROM AN INLET, STREET OR DRIVEWAY, STREAM, RIPARIAN AREA OR OTHER DRAINAGE FACILITY.
- SANITATION FACILITIES SHALL BE INSPECTED REGULARLY FOR LEAKS AND SPILLS AND CLEANED OR REPLACED AS NECESSARY.
- COVER WASTE DISPOSAL CONTAINERS AT THE END OF EVERY BUSINESS DAY AND DURING A RAIN EVENT.
- DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER SHALL BE PREVENTED.
- STOCKPILED WASTE MATERIAL SHALL BE CONTAINED AND SECURELY PROTECTED FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED.

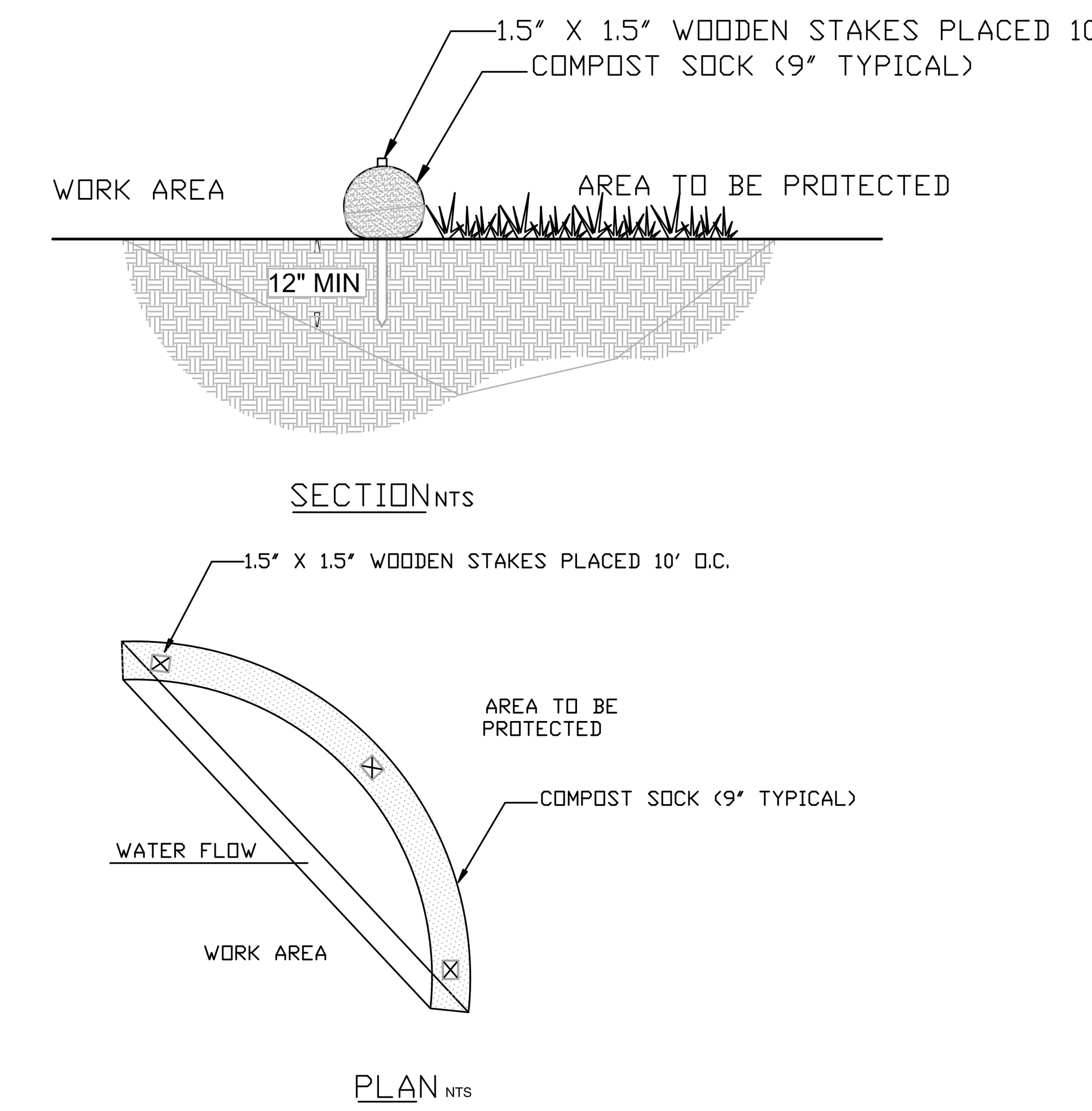
  PROCEDURES THAT EFFECTIVELY ADDRESS HAZARDOUS AND NON-HAZARDOUS SPILLS SHALL BE IMPLEMENTED.EQUIPMENT AND MATERIALS FOR CLEANUP OF SPILLS SHALL BE AVAILABLE ON SITE AND THAT SPILLS AND LEAKS SHALL BE CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY; AND
- CONCRETE WASHOUT AREAS AND OTHER WASHOUT AREAS THAT MAY CONTAIN ADDITIONAL POLLUTANTS SHALL BE CONTAINED SO THERE IS NO DISCHARGE INTO THE UNDERLYING SOIL AND ONTO THE SURROUNDING AREAS.

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.





NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. COMPOST SOCKS FILL TO MEET APPLICABLE REQUIREMENTS.
3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

COMPOST SOCK DEETAIL
NTS

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COMPOST SOCK INSTALLATION

1. LOCATE/MARK ANY UTILITIES.
2. CHECK ALL PERMITS.
3. OBTAIN COMPOST MEETING SPECIFICATIONS.
4. OBTAIN FILTER SOCK NETTING.
5. FILL FILTER SOCK NETTING WITH COMPOST.
6. MARK OUT AREA FOR FILTER SOCK; ORIENT LENGTH OF SOCK PARALLEL TO THE SLOPE SO THAT THE RUNOFF ENTERS AS SHEET FLOW.
7. IN HIGH-FLOW OR STEEP-SLOPE AREAS, ORIENT A SECOND SOCK PARALLEL TO THE FIRST TO DISSIPATE FLOWS.
8. LAY FILTER SOCK NETTING OUT AS PLANNED.
9. FILL FILTER SOCK WITH COMPOST.
10. STAKE FILTER SOCK EVERY 10 FT. STAKES SHOULD BE DRIVEN THROUGH THE CENTER OF THE SOCK, AND 1 FT INTO THE GROUND.
11. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF THE NEW SOCK OVER THE END OF THE OLD SOCK, OVERLAPPING BY 1-2

ft. FILL WITH COMPOST; THEN STAKE THE JOIN.

TYPICAL MAINTENANCE SCHEDULE

INSPECT FILTER SOCKS PERIODICALLY, AND ESPECIALLY AFTER LARGE STORM EVENTS. ENSURE THAT THE FILTER SOCK IS INTACT, AND THATTHE AREA UPSTREAM HAS NOT FILLED WITH SEDIMENT. IF THE UPSTREAM AREA HAS FILLED WITH SEDIMENT, OR IF THE FILTER SOCK HAS BEEN OVERTOPPED, INSTALL ADDITIONAL FILTER SOCKS FURTHER UPSTREAM. SEDIMENT BEHIND THE SOCK SHOULD BE REMOVED WHEN THE DEPTH OF THE SEDIMENT REACHES 3.25-IN. FOR AN 8-IN. SOCK, 4.75-IN. FOR A 12-IN. SOCK AND 7.25-IN. FOR AN 18-IN. SOCK. FOR SOCKS WITH GREATER DIAMETERS, REMOVE SEDIMENT BEHIND THE SOCK WHEN THE ACCUMULATED SEDIMENT DEPTH REACHES 40 PERCENT OF THE DESIGN DIAMETER OF THE SOCK.

ALL EROSION MITIGATION MEASURES SHALL BE IN PLACE PRIOR TO MAJOR CONSTRUCTION OR SOIL DISTURBANCE COMMENCING ON THE SITE.

VEHICLE STORAGE AND MAINTENANCE

- MEASURES SHALL BE TAKEN TO PREVENT OIL, GREASE, OR FUEL TO LEAK IN TO THE GROUND, STORM DRAINS OR SURFACE WATERS.
- ALL EQUIPMENT OR VEHICLES, WHICH ARE TO BE FUELED, MAINTAINED AND STORED ONSITE SHALL BE IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPs.
- LEAKS SHALL BE IMMEDIATELY CLEANED AND LEAKED MATERIALS SHALL BE DISPOSED OF PROPERLY.

LANDSCAPE MATERIALS

- CONTAIN STOCKPILED MATERIALS SUCH AS MULCHES AND TOPSOIL WHEN THEY ARE NOT ACTIVELY BEING USED
- CONTAIN FERTILIZERS AND OTHER LANDSCAPE MATERIALS WHEN THEY ARE NOT ACTIVELY BEING USED.
- DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECASTED RAIN EVENT OR DURING PERIODS OF PRECIPITATION.
- APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURE RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL.
- STACK ERODIBLE LANDSCAPE MATERIAL ON PALLETS AND COVERING OR STORING SUCH MATERIALS WHEN NOT BEING USED OR APPLIED.

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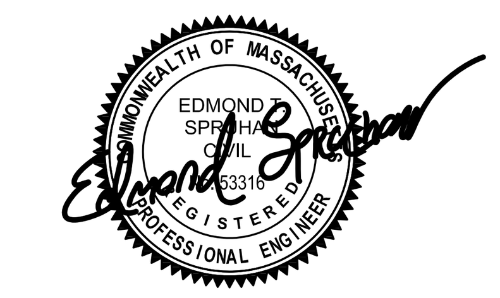

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