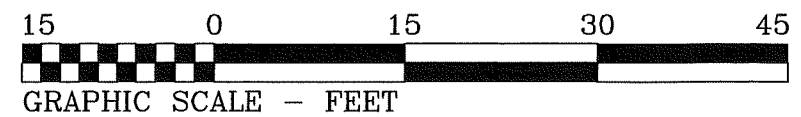
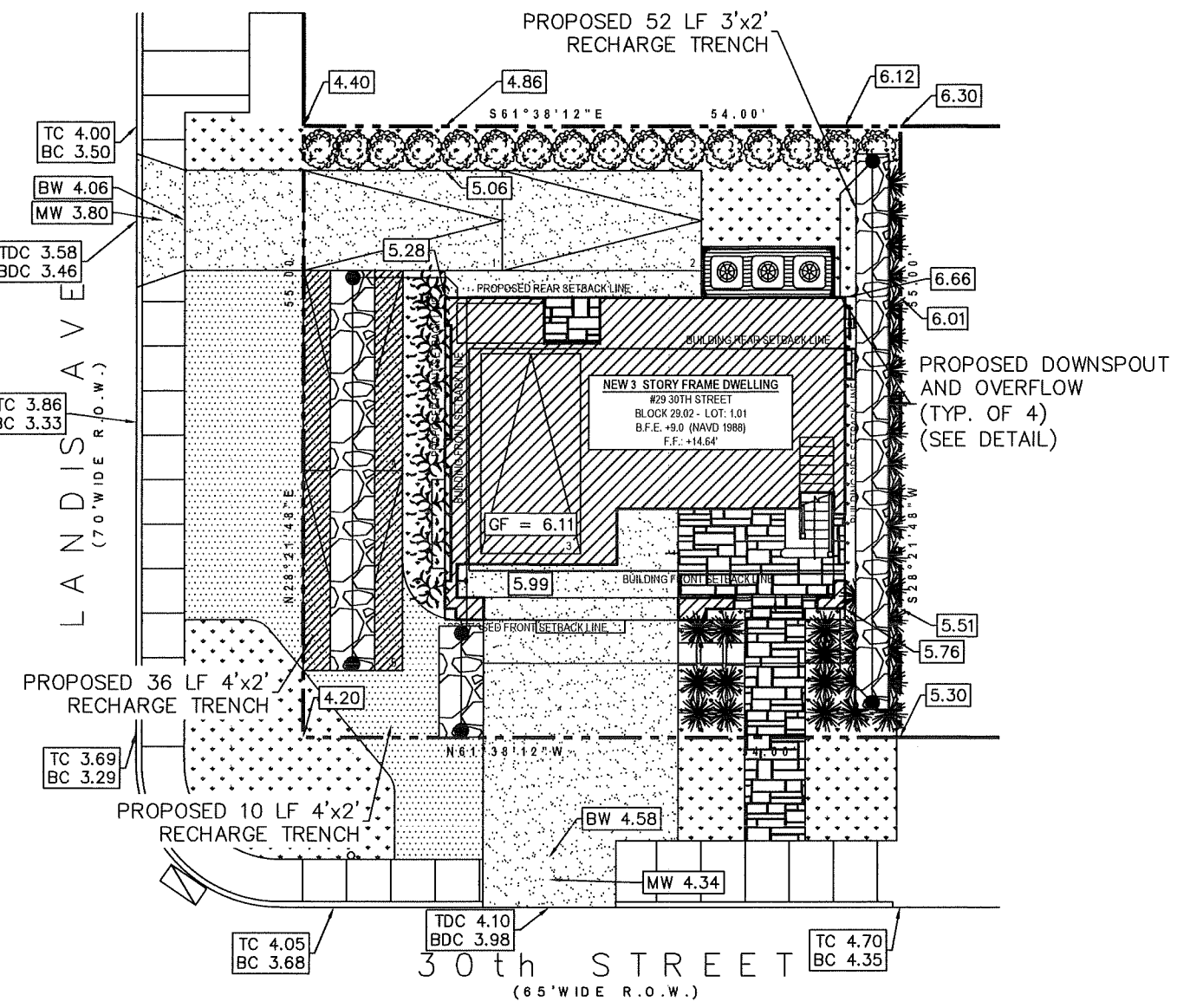


EXISTING
SCALE: 1"=15'-0"

BENCHMARK Nail & Disk Set in Utility Pole Elev. 10.0' NAVD 88 G18



PLAN BASED ON SURVEY BY:
GEORGE SWENSON,
PROFESSIONAL LAND SURVEYOR,
NJ LICENSE NO. G543415,
1217 S SHORE ROAD, SUITE 106,
OCEAN VIEW, NJ 08230
PH: (609) 390-9618
LAST REVISED: 06/24/2025



PROPOSED
SCALE: 1"=15'-0"

X.XX = EXISTING GRADE
[X.XX] = PROPOSED GRADE

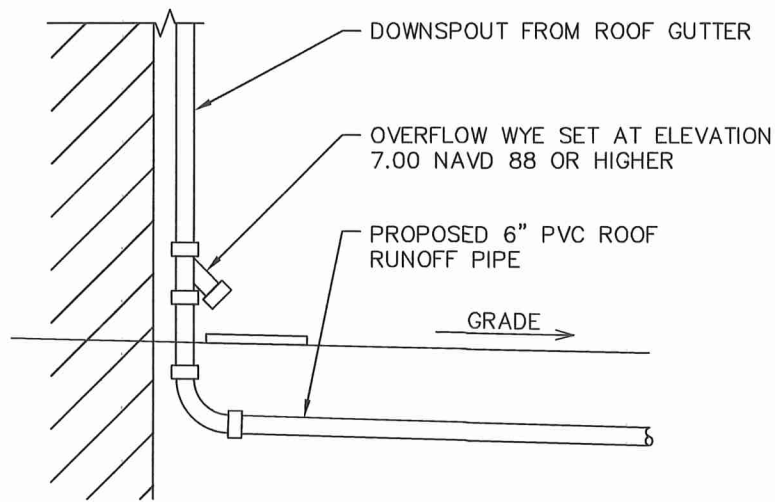
29 30TH STREET,
BLOCK 29.02, LOT 1.01,
SEA ISLE CITY,
CAPE MAY COUNTY, NEW JERSEY

PROPOSED GRADING & DRAINAGE PLAN

DATE: 3/30/2026 DRAWN BY: ZNK CHECKED BY: AJC SCALE: 1" = 15' - 0"
REV. DATE: REVISIONS:

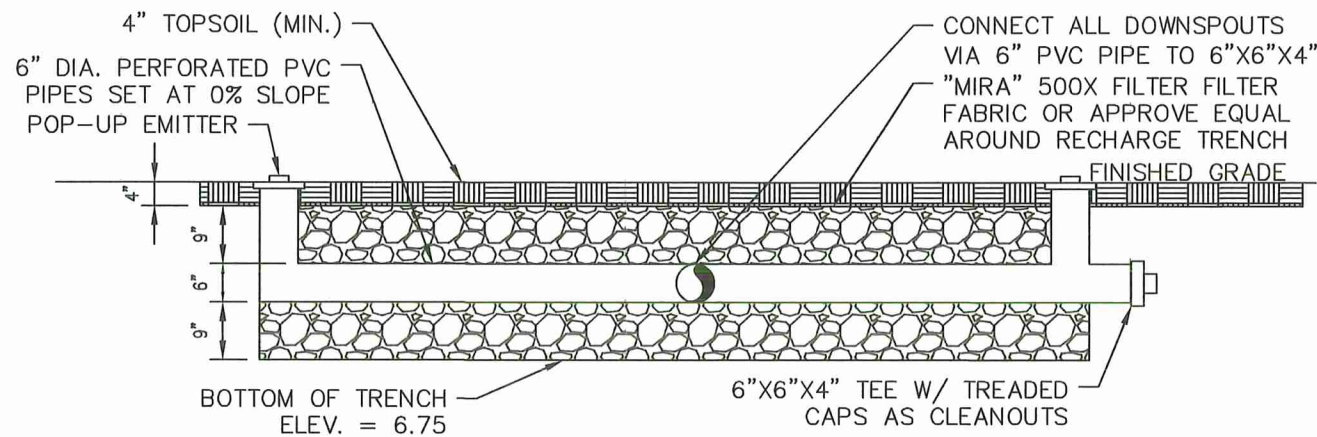
ARTHUR CHEW CONSULTING LLC
130 WEST SEAVIEW AVENUE
LINWOOD, NJ 08221
(609)-992-8409 / ARTHUR@ARTHURCHEWCONSULTING.COM

ARTHUR J. CHEW III, PROFESSIONAL ENGINEER
NJ LICENSE NO. 24GE04700100



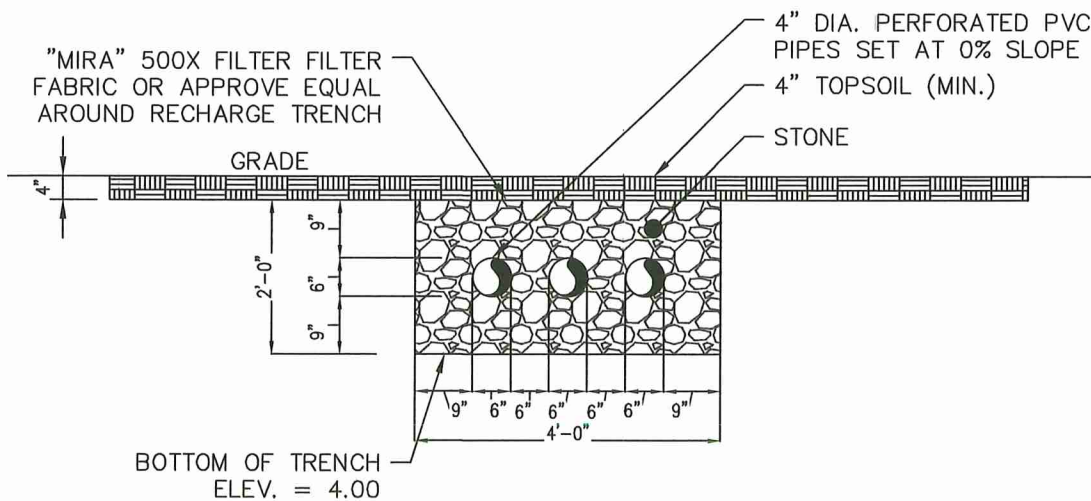
DOWNSPOUT AND OVERFLOW DETAIL

SCALE: N.T.S.



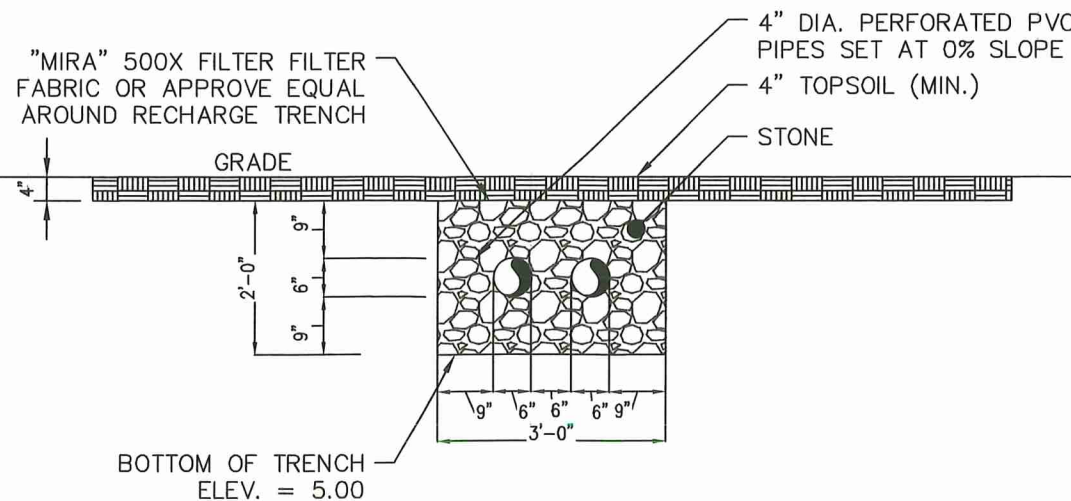
PROFILE SECTION THRU RECHARGE TRENCH

SCALE: N.T.S.



END SECTION THRU RECHARGE TRENCH

SCALE: N.T.S.



END SECTION THRU RECHARGE TRENCH

SCALE: N.T.S.

RECHARGE CALCULATIONS

LOT AREA = 2,970 SF
 EXISTING IMPERVIOUS COVERAGE FOR CALCULATIONS = 0 SF
 PROPOSED IMPERVIOUS COVERAGE = 2055.5 SF

25 YEAR STORM PEAK STORAGE VOLUME = 461.8 CF
 REQUIRED 30% OF THE STORMWATER VOLUME TO BE STORED IN THE STONE RECHARGE TRENCH.
 MINIMUM STORAGE VOLUME OF STONE RECHARGE TRENCH REQUIRED
 $V = 30\% \times 461.8 \text{ CF} = 138.5 \text{ CF}$
 RECHARGE TRENCH MUST BE CAPABLE OF STORING 138.5 CF OF STORMWATER.

PROPOSED STORAGE VOLUME FOR TRENCH

LENGTH = 46 FT
 WIDTH = 4 FT
 HEIGHT = 2 FT
 STONE VOID RATIO = 40%
 PIPES = 3 - 6" DIAMETER PERFORATED PIPES - AREA = 0.589
 LENGTH = 50 FT
 WIDTH = 3 FT
 HEIGHT = 2 FT
 STONE VOID RATIO = 40%

PIPES = 2 - 6" DIAMETER PERFORATED PIPES - AREA = 0.393
 $V = [((4 \times 2) - 0.589) \times 0.4] + 0.589 \times 46 + [((3 \times 2) - 0.393) \times 0.4] + 0.393 \times 50 = 295.2 \text{ CF}$
 $295.2 > 138.5 \text{ CF}$

PROPOSED TRENCH STORAGE VOLUME (295.2 CF) IS GREATER THAN REQUIRED VOLUME OF (138.5 CF)

PROPOSED RECHARGE VOLUME FOR TRENCH

ASSUME RECHARGE RATE OF 6 INCH PER HOUR
 $V = [(4 \times 46) + (3 \times 50)] \times 0.5 = 167 \text{ CF}$

TOTAL PROPOSED VOLUME OF TRENCH

$V = 295.2 \text{ CF} + 167 \text{ CF} = 462.2 \text{ CF}$
 $462.2 > 461.8 \text{ CF}$

THEREFORE THE TOTAL VOLUME OF THE PROPOSED STORMWATER RECHARGE TRENCH (STORAGE VOLUME AND RECHARGE VOLUME) OF 462.2 CUBIC FEET IS GREATER THAN THE VOLUME THAT IS REQUIRED TO BE MITIGATED OF 461.8 CUBIC FEET AND THE PROPOSED TRENCH IS SUFFICIENT.

29 30TH STREET, BLOCK 29.02, LOT 1.01, SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY							
DETAILS & NOTES							
DATE:	3/30/2026	DRAWN BY:	ZNK	CHECKED BY:	AJC	SCALE:	AS SHOWN
REV. DATE:		REVISIONS:					
ARTHUR CHEW CONSULTING LLC 130 WEST SEAVIEW AVENUE LINWOOD, NJ 08221 (609)-992-8409 / ARTHUR@ARTHURCHEWCONSULTING.COM							
ARTHUR J. CHEW III, PROFESSIONAL ENGINEER							
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