LIST OF UTILITIES AND **EMERGENCY CONTACT INFORMATION** LAWRENCE TOWNSHIP PUBLIC WORKS P.O. BOX 6006 LAWRENCE TOWNSHIP, N.J. 08648 **WORKS:** TEL. (609) 587-1894 **EWING-LAWRENCE SEWERAGE AUTHORITY** 600 WHITEHEAD ROAD LAWRENCEVILLE, NJ 08648 TEL. (609) 587-4061 AQUA NJ - LAWRENCE SYSTEM 10 BLACK FOREST RD HAMILTON, N.J. 08691 TEL. (609) 587-4080 PSE&G 300 NEW ALBANY ROAD MOORESTOWN, NJ 08057 **ELECTRIC**: TEL. (800) 541-5900 **NEW JERSEY NATURAL GAS COMPANY** 525 MAIN STREET

ALLENHURST, N.J. 07109

TEL. (800) 272-1000

2225 EVESHAM ROAD

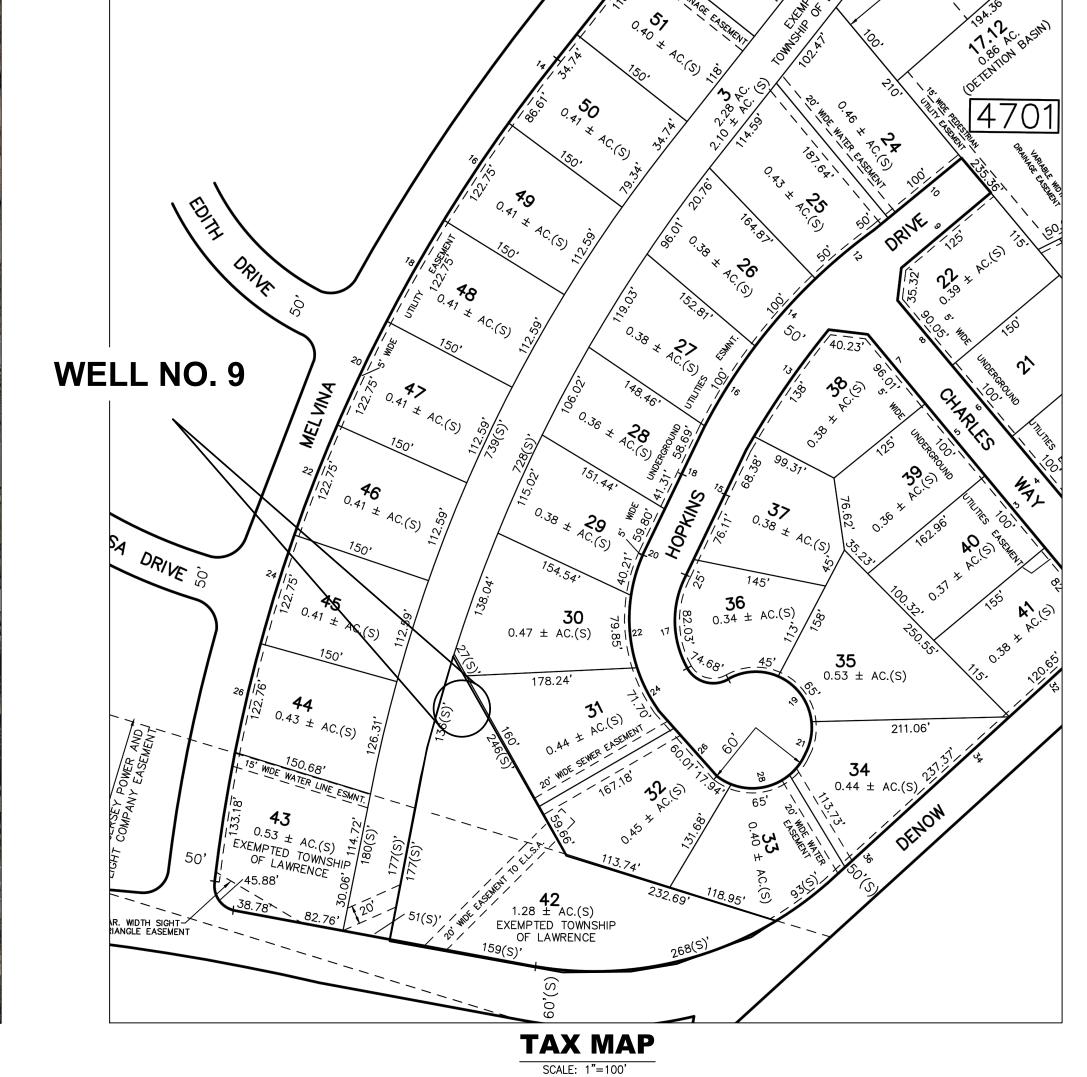
VOORHEES, N.J. 08043 TEL. (609) 772-9924

TELEPHONE:

| | SHEET INDEX |
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| SHEET# | DESCRIPTION |
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| S-4.3 (W9) | WELL NO. 9 INTERIOR BUILDING SECTIONS |
| M-2.1 (W9) | WELL NO. 9 MECHANICAL FLOOR PLAN |

MINOR SITE PLAN FOR WELL NO. 9 PFAS TREATMENT IMPROVEMENTS





AERIAL MAP

| LAND | USE AND ZO | NING |
|------------------------------|----------------------------------|--------------------|
| В | LOCK 4701, LOT 4 | 2 |
| R2(B) - RES | IDENTIAL / OS - | OPEN SPACE |
| PRESENT AND PROPOSE | ED LAND USE: PRODUCTION FACILITY | WELL AND TREATMENT |
| ZONING REQUIREMENT | REQUIRED | PROPOSED |
| MINIMUM LOT SIZE | 15,000 SF | 55,750 SF |
| TOTAL IMPERVIOUS COVERAGE | 40% | ~3.4% |
| MINIMUM FRONT SET BACK | 40 / 75 | 9.37 |
| MINIMUM SIDE SET BACK | 15 / 35 | 48.06 |
| MINIMUM REAR SETBACK | 40 / 50 | 147.10 |
| MAX HEIGHT | 38 / 50 | 18 |
| EASEMENT AR | EA (TRACT 1 APPROXIMATE | LY 3,706 SF) |
| | EXISTING | PROPOSED |
| IMPERVIOUS SURFACE | 231.4 SF | 719.4 SF |

| TOWNSHIP BOARD APPROVAL | |
|-------------------------|------|
| BOARD CHAIRPERSON | DATE |
| BOARD SECRETARY | DATE |
| MUNICIPAL ENGINEER | DATE |
| ADMINISTRATIVE OFFICER | DATE |

| 4701 3,43 2207 LAWRENCE VILLE RD LAWRENCE TOWNSHIP, N 29 20 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 30 22 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 31 24 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 32 26 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 33 28 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 34 21 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 44 26 MELVINA DRIVE LAWRENCE TOWNSHIP, N | J 08648 J 08648 |
|--|--------------------|
| 30 22 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 31 24 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 32 26 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 33 28 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 34 21 HOPKINS DRIVE LAWRENCE TOWNSHIP, N | J 08648 |
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| 33 28 HOPKINS DRIVE LAWRENCE TOWNSHIP, N 34 21 HOPKINS DRIVE LAWRENCE TOWNSHIP, N | 00040 |
| 34 21 HOPKINS DRIVE LAWRENCE TOWNSHIP, N | J 08648 |
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| 44 26 MELVINA DRIVE LAWRENCE TOWNSHIP N | J 08648 |
| THE PROPERTY OF THE PROPERTY O | J 08648 |
| 45.00 24 MELVINA DRIVE LAWRENCE TOWNSHIP, N | J 08648 |
| 46 22 MELVINA DRIVE LAWRENCE TOWNSHIP, N | J 08648 |



EXCAVATION WITHIN 10 DAYS. ALL CONTRACTORS

AQUA NJ - LAWRENCE SYSTEM MERCER COUNTY, NEW JERSEY

JANUARY 2025



REMINGTON & VERNICK ENGINEERS

2059 SPRINGDALE ROAD CHERRY HILL, NJ 08003 (856) 795-9595, FAX (856) 795-1882 WEB ADDRESS: RVE.COM Certification of Authorization: 24 GA 28003300

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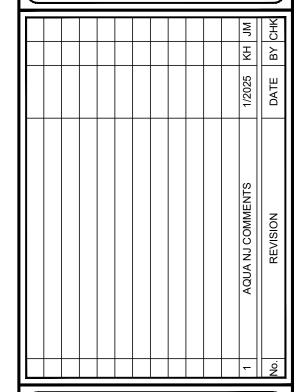
Stephane Cuth

STEPHANIE A. CUTHBE

NJ PROFESSIONAL ENGINEER LIC. No. 42136

PLANS WHICH DO NOT BEAF AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICE ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSI BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON OVERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON OF VERNICK ENGINEERS AND AFFILIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON OVERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OF RESULT IN GTHE PROJECT.



QUA NEW JERSEY
WELL NO. 9
TMENT IMPROVEMENTS

AQUA NEW JER
WELL NO.
PFAS TREATMENT IMI

 DRAWN BY:
 DESIGN BY:
 CHECKED BY:
 SCALE:

 K.H.
 D.F./S.C.
 AS NOTED

 DATE:
 SHEET No.:

 MAY 2024
 T-1

GENERAL NOTES:

CONSTRUCTION.

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF THE CONSTRUCTION, ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. ALL PAVED AND CONCRETE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING
- CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
- 5. ALL GRASSED OR WOODED AREAS DISTURBED DURING CONSTRUCTION SHALL BE TOPSOILED AND SEEDED.
- 6. ALL FILL SHALL BE PLACED IN 12" LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF THE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
- 8. BASELINES HAVE BEEN PROVIDED ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE BASELINE AS SHOWN ON THE PLAN.
- 9. APPROXIMATE DEPTH OF ALL WATER MAIN IS \pm 4 FEET.
- 10. APPROXIMATE DEPTH OF ALL GAS MAIN IS \pm 3 FEET.
- 12. SEPARATE PAYMENT WILL NOT BE MADE FOR SAW CUTTING OF ANY KIND, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 13. PAYMENT FOR JOINT MATERIAL FOR ALL CONCRETE WORK WILL NOT BE MEASURED BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 14. SEPARATE PAYMENT WILL NOT BE MADE FOR STEEL TREE ROOT PROTECTION PLATES.
- 15. ALL GRASS AND WOODED AREAS DISTURBED DURING CONSTRUCTION SHALL BE BACKFILLED AS DIRECTED.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING CONCRETE CURB NOT SHOWN TO BE REMOVED. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE REMOVAL AND REPLACEMENT OF ANY DAMAGED CURB NOT DOCUMENTED PRIOR TO THE START OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 17. ALL UNUSED MATERIAL EXCAVATED FROM THE PROJECT SITE ARE TO BE DISPOSED OF AT AN APPROVED FACILITY.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE PLANS AND SPECIFICATIONS. SEPARATE PAYMENT FOR ALL ASSOCIATED COSTS WILL NOT BE MADE, BUT SHALL BE INCLUDED UNDER VARIOUS ITEMS OF THE PROPOSAL.
- 19. CONTRACTOR SHALL RESTORE ALL EXISTING FEATURES DISTURBED DURING CONSTRUCTION (I.E. MAILBOXES, IRRIGATION SYSTEMS, LANDSCAPING, ETC.). ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR CLEARING SITE.
- 20. ALL UTILITY WORK SHALL BE CONSTRUCTED TO ALLOW UNINTERRUPTED SERVICE TO ADJACENT PROPERTIES. INCLUDING MAINTAINING UNINTERRUPTED SERVICE OF WELL NO. 9 DURING THE CONSTRUCTION OF WELL NO. 6 AND UNINTERRUPTED SERVICE OF WELL NO. 6 DURING THE CONSTRUCTION OF WELL NO. 9.
- 21. EXISTING WATER MAIN, SANITARY SEWER, GAS MAIN, STORM SEWER ALONG WITH ALL OTHER UTILITIES SHALL BE FULLY SUPPORTED AND MAINTAINED DURING INSTALLATION OF THE PROPOSED UTILITY WORK, SERVICES AND LATERALS.
- 22. THE ELEVATION OF THE EXISTING WATER MAIN AS DEPICTED ON THE DRAWINGS IS ASSUMED. CONTRACTOR SHALL CONFIRM ELEVATION OF EXISTING WATER MAIN AND LOCATION OF ALL SERVICE CONNECTION DURING
- 23. ALL CONNECTIONS TO THE EXISTING WATER MAIN SHALL BE REPLACED. THE INSTALLATION OF NEW SERVICE LATERALS SHALL INCLUDE ALL PIPING, CORPORATION STOP, CURB STOP, CURB BOX AND RECONNECTION OF EXISTING SERVICE.
- 24. ALL UTILITY CROSSINGS/OFFSETS SHALL INCLUDE COMPACTED STABILIZATION MATERIAL FOR FULL LENGTH OF CROSSING.
- 25. INSTALLATION OF ALL SANITARY SEWER AND MANHOLES SHALL INCLUDE TEMPORARY BY—PASS PUMPING. ALL COSTS ASSOCIATED WITH THE TEMPORARY PUMPING SHALL BE INCLUDED IN THE VARIOUS LINE ITEMS TO INSTALL SAID MATERIALS, COMPLETE.
- 26. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 27. SEPARATE PAYMENT WILL NOT BE MADE FOR EXCAVATION, DEWATERING, FITTINGS, PIPE BEDDING, SHEETING, BRACING, SHORING, INLET CONNECTIONS, TRAPS, AND SUITABLE BACKFILL MATERIAL INVOLVED IN ALL PIPE AND ASSOCIATED STRUCTURES REMOVAL, RECONSTRUCTION AND INSTALLATION, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL REGARDLESS OF DEPTH.
- 28. ALL WORK TO BE COORDINATED WITH SEPARATE CONTRACTORS FOR ONGOING WORK IN AREAS SURROUNDING THE SITES.
- 29. PAYMENT FOR OBSTRUCTION REMOVAL SUCH AS TREE ROOTS AND EXISTING INFRASTRUCTURE WHICH MAY INTERFERE WITH THE PROPOSED CONSTRUCTION, SHALL BE INCLUDED IN THE ITEM "CLEARING SITE".
- 30. EXISTING SANITARY SEWER MAINS & LATERALS SHOWN MAY NOT BE ACCURATE DUE TO INCOMPLETE UTILITY INFORMATION. CONTRACTOR IS RESPONSIBLE FOR LOCATING.
- 31. SEPARATE PAYMENT FOR THE RESETTING OR EXTENSION, AND REPLACEMENT OF EXISTING ROOF DRAINS OR SUMP PUMP DRAINS, AS REQUIRED, WILL NOT BE MADE BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 32. ALL TREE REMOVALS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO REMOVAL. ALL TREE PLANTINGS ARE APPROXIMATE WITH FINAL LOCATIONS TO BE ESTABLISHED IN THE FIELD.
- 33. THE CONTRACTOR SHALL UTILIZE A QUALIFIED ARBORIST FOR ALL TREE TRIMMINGS.
- 34. INLET SEDIMENT PROTECTION SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED INLETS AND CATCH BASINS SHOWN ON THE PLANS. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM COST FOR 'SOIL EROSION AND SEDIMENT CONTROL'.
- 35. ALL SANITARY & STORM SEWER CONSTRUCTION SHALL COMPLY WITH OWNER SEWER/WATER "DESIGN, CONSTRUCTION, INSPECTION AND TESTING MANUAL". COST ASSOCIATED WITH TESTING (INFILTRATION, EXFILTRATION, PIPE ALIGNMENT, TELEVISION) SHALL BE INCLUDED IN THE VARIOUS PIPE ITEMS OF THE PROPOSAL.
- 36. PRESSURE TESTING OF ALL SANITARY & STORM SEWER SEWERS (INCLUDING RCP) SHALL BE PERFORMED IN ACCORDANCE WITH UTILITY AUTHORITY MANUAL. RCP SEWERS ABOVE 24 INCHES IN DIAMETER SHALL BE JOINT TESTED IN ACCORDANCE WITH ASTM.
- 37. ALL RCP SHALL BE LINED ON THE INTERIOR WITH A COAT OF TAR EPOXY SEAL COAT WITH A MINIMUM OF 4 MILS IN THICKNESS (DRY FILM THICKNESS)
- 38. THE ENGINEER AND UTILITY MUST BE GIVEN 48 HOURS ADVANCE NOTICE OF STORM/SANITARY SEWER/WATERMAIN WORK AND THE REPRESENTATIVES MUST WITNESS THE WORK AND CONNECTION.
- 39. THE CONTRACTOR SHALL NOT BE PERMITTED TO UTILIZE ANY KIND OF HMA VIBRATORY ROLLER OR VIBRATORY DRUM COMPACTOR ON THIS PROJECT. ALTERNATIVE COMPACTION TECHNIQUES, SUCH AS STATIC ROLLERS, SHALL BE APPROVED BY THE RESIDENT ENGINEER.

ENVIRONMENTAL COMMITMENTS:

- 1. IMPLEMENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- 2. IMPLEMENT STANDARD MEASURE FOR CONSTRUCTION RELATED NOISE AND AIR QUALITY IMPACT CONTROLS.
- 3. BEST MANAGEMENT PRACTICE WILL BE UTILIZED DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STORM WATER INLETS AND ENVIRONMENTALLY SENSITIVE AREAS.
- 4. CONSTRUCTION STAGING ACTIVITIES (INCLUDING STORAGE OF EQUIPMENT, VEHICLES AND MATERIALS) ARE PROHIBITED IN THE ENVIRONMENTALLY SENSITIVE AREA OR GREEN ACRES ENCUMBERED PROPERTIES.
- 5. IF CONTACT WITH THE NORTHERN LONG—EARED BAT IS MADE DURING MAINTENANCE OPERATION, CONSULTATION WITH USFWS AND BEPR WILL BE REQUIRED.
- 6. CONTRACTOR RESPONSIBLE FOR ADHERING TO ALL LAWERENCE TOWNSHIP AND MERCER COUNTY REQUIREMENTS ASSOCIATED WITH ANY PERMITS, LAND USE BOARD APPROVALS, ETC.



REMINGTON & VERNICK ENGINEERS

CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB ADDRESS: RVE.COM
Certification of Authorization: 24 GA 28003300

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2059 SPRINGDALE ROAD

DATE: 1-31-2025
STEPHANIE A. CUTHBERT

NJ PROFESSIONAL ENGINEER LIC. No. 42136

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICH

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| \vdash | Ā | 1/2025 | AQUA NJ COMMENTS | - |
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AL NOTES

AQUA NEW JERSEY
WELL NO. 9
AS TREATMENT IMPRO

TS

DRAWN BY: DESIGN BY: CHECKED BY: SCALE:
K.H. K.H. D.F./S.C. AS NOTED

DATE: SHEET No.:

JOB No.:

DRAW K.

NOTE: ALL SYMBOLS MAY NOT BE USED DESCRIPTION EXISTING TEM EXISTING PROPOSED PROPOSED EXISTING PROPOSED DESCRIPTION DESCRIPTION REMINGTON & VERNICK OVERHEAD WIRE EDGE OF PAVEMENT BENCHMARK LOCATION **ENGINEERS** SANITARY FORCE MAIN PIPE 2059 SPRINGDALE ROAD CROWS FOOT STORM SEWER PIPE ≤12" CHERRY HILL, NJ 08003 (SIZE & TYPE) (SIZE & TYPE) CONCRETE SIDEWALK PAVEMENT / CONC. / SIDEWALK BITUMINOUS/ASPHALT **AERIAL TARGET** (856) 795-9595, FAX (856) 795-1882 STORM SEWER PIPE > 12" WEB ADDRESS : RVE.COM GAS SERVICE PAVEMENT, FULL DEPTH RESTORATION CONCRETE ■ (SET) CONCRETE MONUMENT Certification of Authorization: 24 GA 28003300 Excellence • Innovation • Service ____s ___ SANITARY SEWER PIPE ≤12" PAVEMENT MILLING (SIZE & TYPE) BRICK/PAVERS PK / MAG NAIL / DRILL HOLE / SPIKE • (SET) SANITARY SEWER PIPE > 12" Stephane Cuth DRIVEWAY RESTORATION, ASPHALT DRILL HOLE W/ WINGS ELECTRIC SERVICE DATE: 1 - 31 - 2025DRIVEWAY RESTORATION, BRICK FIBER OPTIC SERVICE ▲ (SET) STAKE DRIVEWAY RESTORATION, CONCRETE TELEPHONE SERVICE △ (SET) HUB NJ PROFESSIONAL ENGINEER LIC. No. 42136 DRIVEWAY RESTORATION, STONE COMMUNICATIONS SERVICE • (SET) PIN W/ CAP **IRON PIPE IRRIGATION PIPE** • (SET) **IRON PIN** WATER SERVICE LIMIT OF EXCAVATION **★** (SET) CROSS CUT WATER SHUT-OFF **GUIDE RAIL** DISK WATER METER BOLLARD STONE WATER VALVE M NEW M RESET MAILBOX REBAR WATER HYDRANT ▼ NEW ▼ RESET SIGNS - -- → **-** -- -BASELINE ______ FLAG POLE CENTERLINE YARD HYDRANT BENCH EASEMENT METER PIT RIGHT-OF-WAY PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID **GAS SHUT-OFF** DETECTABLE WARNING SURFACE PROPERTY BOUNDARY ALL DOCUMENTS PREPARED BY REMINGTON & VERNICI **GAS METER** ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NO TYPICAL STRIPING ADJACENT PROPERTY BOUNDARY NTENDED OR REPRESENTED TO BE SUITABLE FOR REUS BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT M NEW M RESET GAS VALVE **ADA STRIPING** OR ON ANY OTHER PROJECT. ANY REUSE WITHOU RAILROAD TRACKS WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFI PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK ANI GAS LINE MARKER TRAFFIC CONTROL BOX STATE BOUNDARY WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTO & VERNICK ENGINEERS AND AFFILIATES; AND OWNE HALL INDEMNIFY AND HOLD HARMLESS REMINGTON CLEANOUT (ARM TO SCALE) ERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIM TRAFFIC LIGHT MUNICIPAL / COUNTY BOUNDARY __________ AMAGES, LOSSES AND EXPENSES ARISING OUT OF O RESULTING THEREFROM **SEWER VENT** DEPT. OF TRANSPORTATION MANHOLE NEW ☐ RESET/ ☐ RECONSTRUCT INLET TYPE A ♣ B-# STATE HIGHWAY DEPARTMENT MANHOLE SHD BOX **BORING LOCATION** - ⊕ B−# RESET/ RECONSTRUCT **INLET TYPE B** RAILROAD CROSSING BEACON → MW-# MONITORING WELL LOCATION RESET/ RECONSTRUCT **INLET TYPE E** Ħ TP-# CALL BOX TEST PIT LOCATION AREA DRAIN OIL FILL FRESHWATER WETLAND FLAG X FW-# MANHOLES S SANITARY D DRAINAGE T TELEPHONE UNDERGROUND STORAGE TANK LID FRESHWATER WETLAND LINE NEW RESET RECONSTRUCT RISER PIPE FRESHWATER WETLAND BUFFER **HEADWALL** RAISED PAVEMENT MARKER EDGE OF WATER **HEADWALL W/ WINGS** STREAM CENTERLINE TYPICAL NORTH ARROW M NEW M RESET IRRIGATION CONTROL VALVE NORTH POINT TO BE USED ON STANDARD CONSTRUCTION SHEETS WHERE BEARINGS REFER TO STATE PLANE COORDINATE SYSTEM. CHECK VALVE -NIRRIGATION BOX E.B., W.B., EASTBOUND, WESTBOUND, **GATE VALVE** \longrightarrow TYP. TYPICAL PERF. PERFORATED N.B., S.B. NORTHBOUND, SOUTHBOUND IRRIGATION CONTROL BOX DISABILITIES ACT ABOVE FINISHED FLOOR FINISH FLOOR ELEVATION PK PARKER KAYLON MASONRY NAIL UD UNDERDRAIN $\mathbf{0}$ MOTOR OPERATED VALVE € 🕞 SPRINKLER HEAD NCH. ANCHOR PI POINT OF INFLECTION 90° HEAD 180° HEAD 360° HEAD PROP. PROPOSED UP UTILITY POLE CHEMICAL FEED PUMP UNKNOWN VALVE GRANULAR ACTIVATED CARBON PSI POUNDS PER SQUARE INCH UV ULTRA VIOLET PT POINT OF TANGENCY S FLOW METER PVC POLYVINYL CHLORIDE PIPE VAR. VARIES COMMUNICATIONS PEDESTAL PVI POINT OF VERTICAL INTERSECTION WM WATER METER BASELINE REDUCER PVT POINT OF VERTICAL TANGENCY GALV. GALVANIZED COMMUNICATIONS LINE MARKER HDPE HIGH DENSITY POLYETHYLENE PIPE R RADIUS BENCH MARK CUT AND CAP HEADWALL RCP REINFORCED CONCRETE PIPE TELEPHONE PEDESTAL INVERT WELL NO. 9 ATMENT IMPRO CAST IRON PIPE RMC RIGID METALLIC CONDUIT TEE ____ CENTER LINE R.O.W. RIGHT OF WAY TELEPHONE LINE MARKER . CONCRETE R.R. RAILROAD JUNCTION BOX CORRUGATED METAL PIPE RTE. ROUTE ELEC. BOX LINEAR FEET SAN. SANITARY L.O.M. LIMIT OF MILLING FLOW DIRECTIONAL ARROW SS STAINLESS STEEL -ELEC. METER SHD STATE HIGHWAY DEPARTMENT ELEC. TRANSFORMER PAD CONCRETE MASONRY UI TOP OF BANK / DITCH ELEC. VAULT SWK. SIDEWALK DRILL HOLE BOTTOM OF BANK / DITCH TBA TO BE ABANDONED ELEC. LINE MARKER DUCTILE IRON PIPE TBR TO BE REMOVED CONTOUR (MAJOR) N.T.S. NOT TO SCALE DRIVEWAY TOP OF CURB PIPE UTILITY POLE **ELEVATION** TEL TELEPHONE CONTOUR (MINOR) EXISTING PC POINT OF CURVATURE TEMP TEMPORARY **GUY ANCHOR** FLOW LINE / SWALE

 $\times 3.48$

GL 4. 95

 \Longrightarrow

TC5.45

GL4.95

INV.=50.50(W) INV.=50.40(E)

<u>100 LF</u>(1)┐

PROPOSED CONDITIONS

100 LF 2

SAN. MH. RIM=61.00 INV.=50.50(W)

INV.=50.40(E)

EXISTING CONDITIONS

DRAWN BY: DESIGN BY: CHECKED BY: SCALE:

MAY 2024

JOB No.:

3908X023

K.H. K.H. D.F./S.C. AS NOTED

SHEET No.:

G-2

TIME OF CONCENTRATION

SPOT GRADE

ROADWAY GRADE

DRAINAGE FLOW

₩ ₩

[☼] POLE [৺] AREA

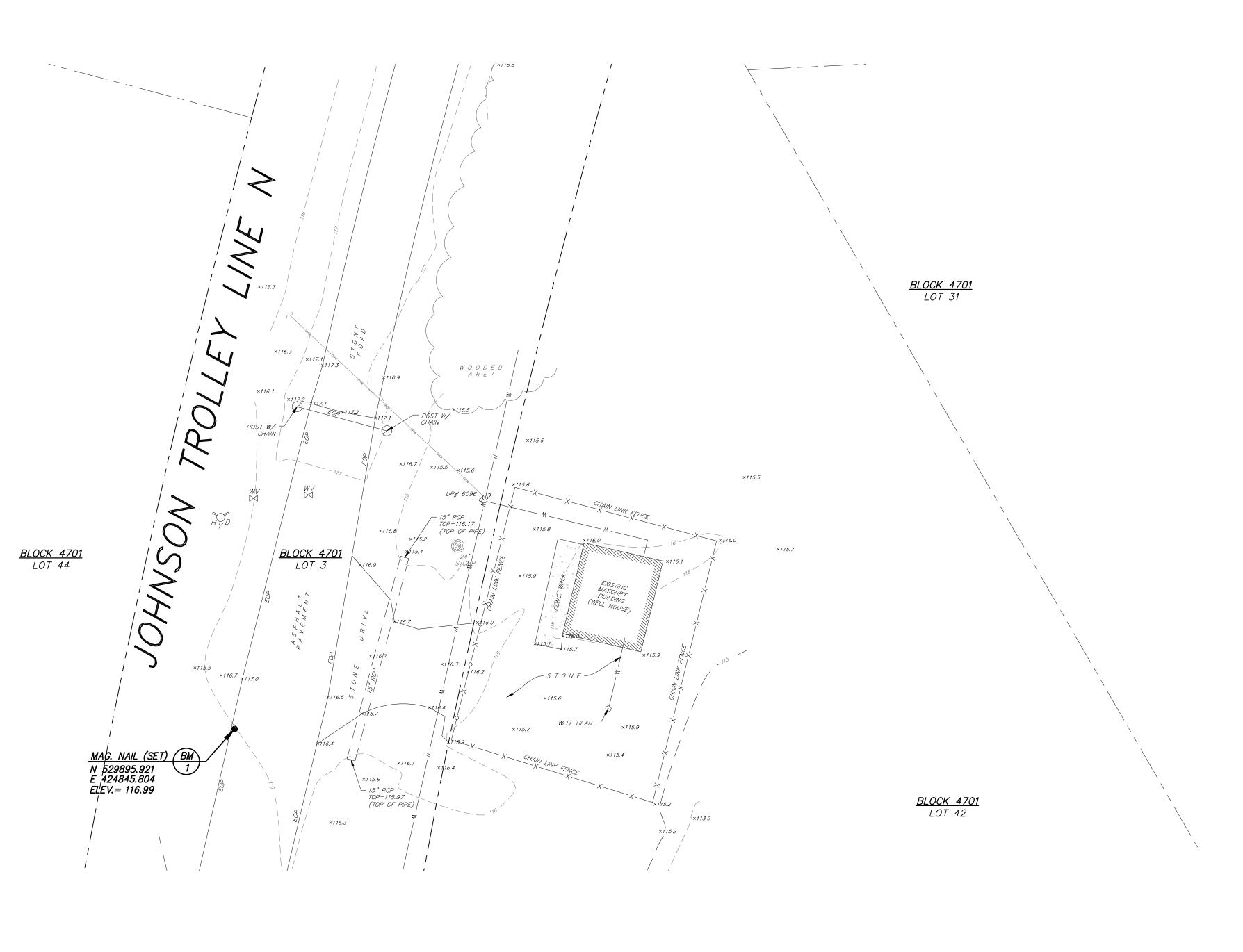
WELL

ELEC. OUTLET

LIGHTS

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VENT PIPE



SURVEY NOTES & REFERENCES:

- 1. THE HORIZONTAL DATUM IS BASED ON THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD-1983 / 2011 ADJ.) AND THE VERTICAL DATUM IS BASED ON NAVD-1988 / GEOID 2012b (ADD 1.03 FEET TO THESE ELEVATIONS TO CONVERT TO NGVD-1929 DATUM)
- 2. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE TOWNSHIP OF LAWRENCE, MERCER COUNTY, NEW JERSEY. ADJOINING PROPERTY AND RIGHT-OF-WAY LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.
- 3. EXISTING TOPOGRAPHIC CONDITIONS WERE SURVEYED BY REMINGTON & VERNICK ENGINEERS UNDER THE SUPERVISION OF CHARLES E. ADAMSON, N.J.P.L.S. LICENSE NO. 42627. THE SURVEY WORK WAS COMPLETED ON OCTOBER 2, 2023.
- 4. THIS PLAN AND SURVEY DOES NOT CERTIFY TO THE LOCATION, BOTH HORIZONTAL AND VERTICAL OF ANY UNDERGROUND UTILITY OR STRUCTURE THAT WAS NOT EXPOSED FOR DIRECT MEASUREMENT.



GRAPHIC SCALE

O 5 10

(IN FEET)

1 inch = 10 ft.

RYE

REMINGTON & VERNICK ENGINEERS

2059 SPRINGDALE ROAD CHERRY HILL, NJ 08003 (856) 795-9595, FAX (856) 795-1882 WEB ADDRESS : RVE.COM

Certification of Authorization: 24 GA 28003300

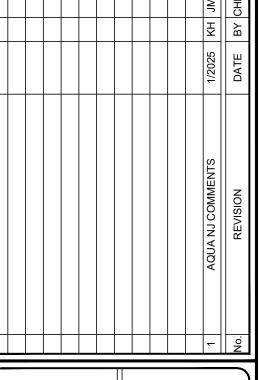
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DATE: 09-09-2024

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WELL NO. 9 EXISTING

FOPOGRAPHICAL CONDITIONS

AQUA NEW JERSEY

WELL NO. 9

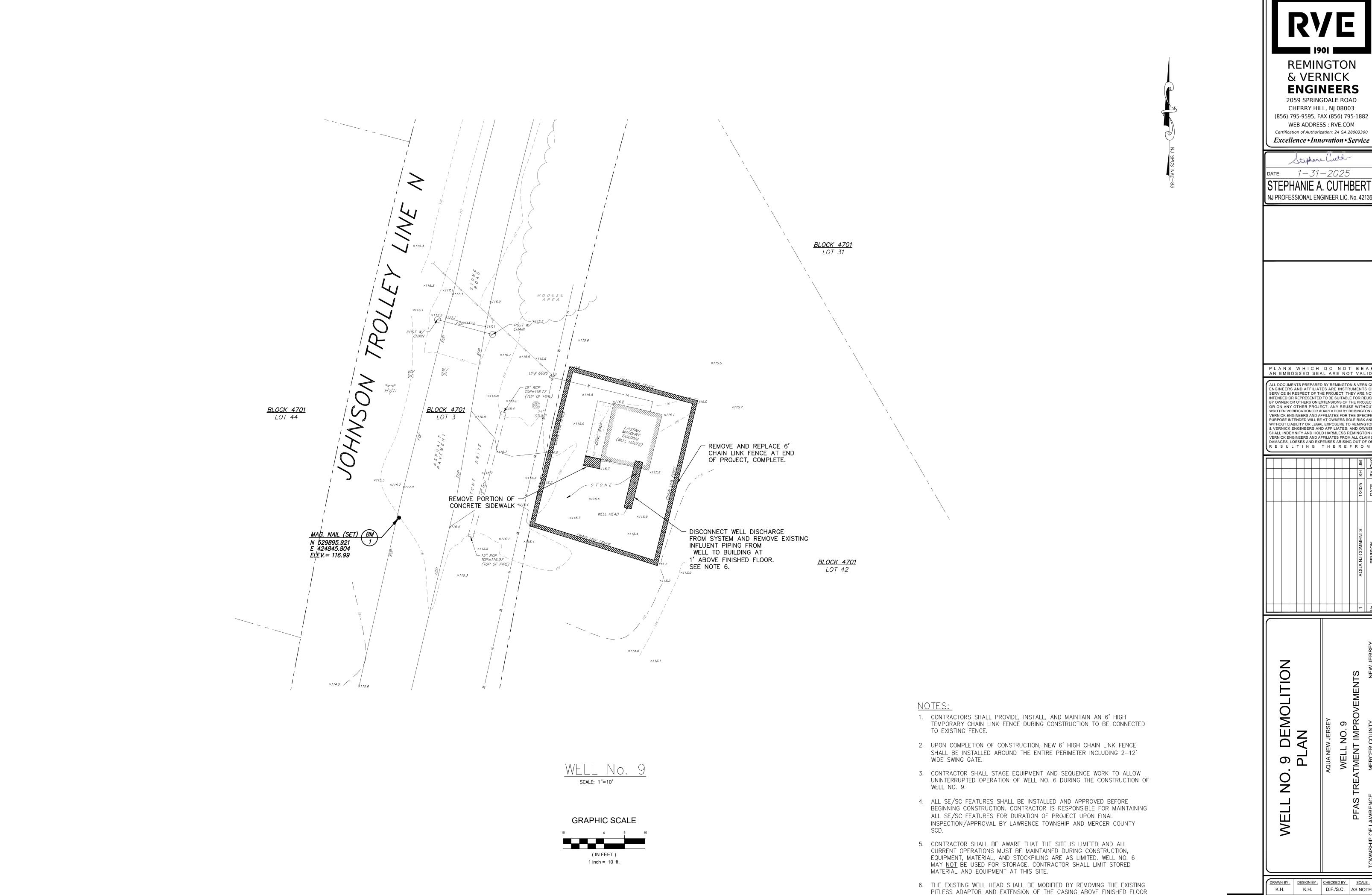
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 SCALE:

 K.H.
 K.H.
 D.F./S.C.
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 SHEET No.:

 MAY 2024
 C-5

 JOB No.:
 3908X023



REMINGTON & VERNICK

ENGINEERS 2059 SPRINGDALE ROAD

CHERRY HILL, NJ 08003 (856) 795-9595, FAX (856) 795-1882 WEB ADDRESS: RVE.COM Certification of Authorization: 24 GA 28003300

Stephane Cuth

1-31-2025

NJ PROFESSIONAL ENGINEER LIC. No. 42136

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о П

WELL NO. 9 EATMENT IMPRO

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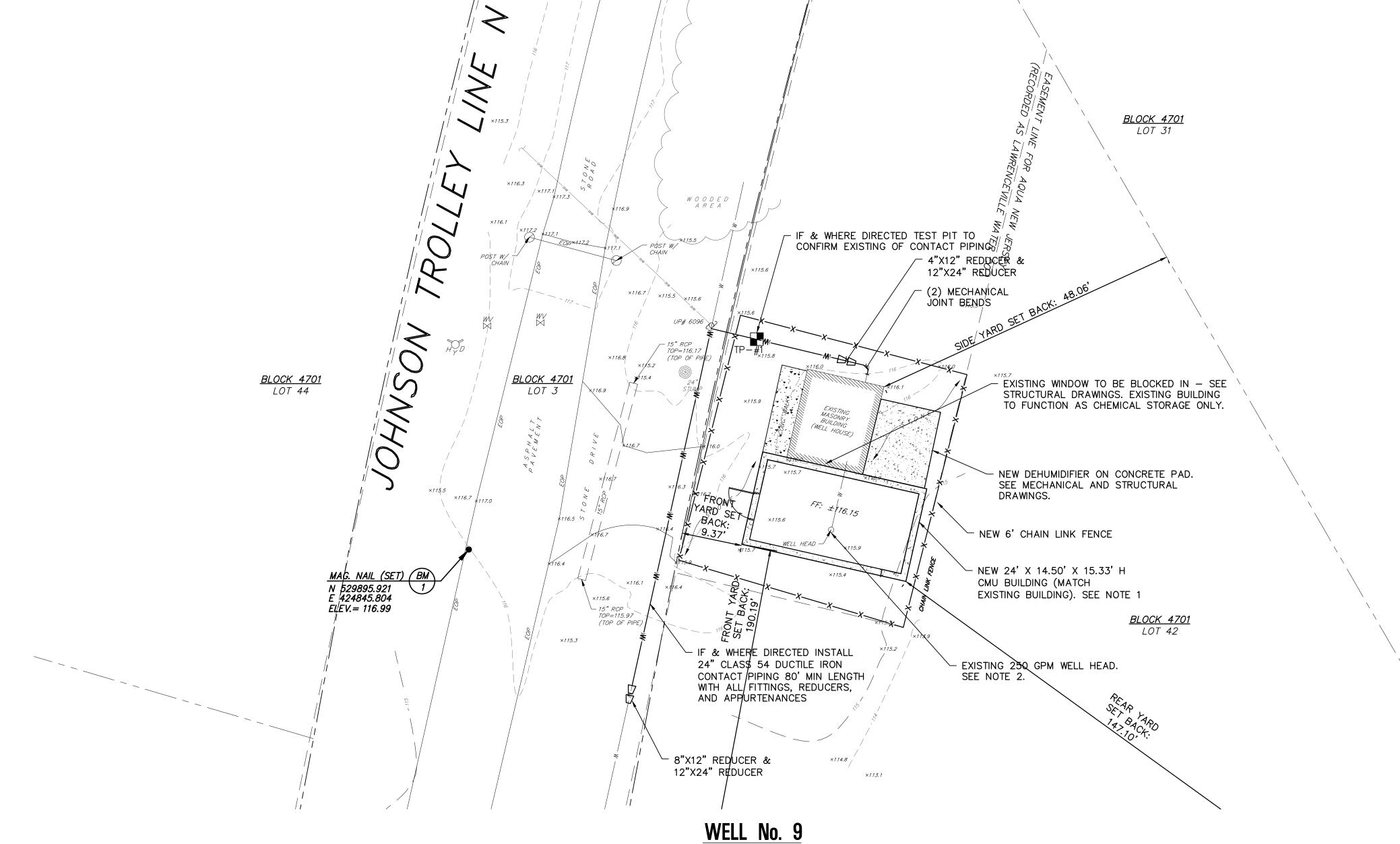
K.H. K.H. D.F./S.C. AS NOTED SHEET No.: MAY 2024 JOB No.: 3908X023

ELEVATION - SEE DETAIL D-1. THE WORK SHALL BE COMPLETED BY A

BEEN PROVIDED IN THE BID FORM FOR UTILIZING SUBSURFACE

LICENSED WELL DRILLER HIRED BY THE CONTRACTOR. AN ALLOWANCE HAS

TECHNOLOGIES TO DEVELOP THE FABRICATED WELL HEAD AND AQUAGARD CO2 TREATMENT ONLY.



SCALE: 1"=10'

GRAPHIC SCALE

1 inch = 10 ft.

| LANI | D USE AND ZO | NING |
|------------------------------|-----------------------------------|--------------------|
| - E | BLOCK 4701, LOT 4 | -2 |
| R2(B) - RE | SIDENTIAL / OS - | OPEN SPACE |
| PRESENT AND PROPOS | SED LAND USE: PRODUCTION FACILITY | WELL AND TREATMENT |
| ZONING REQUIREMENT | REQUIRED | PROPOSED |
| MINIMUM LOT SIZE | 15,000 SF | 55,750 SF |
| TOTAL IMPERVIOUS COVERAGE | 40% | ~3.4% |
| MINIMUM FRONT SET BACK | 40 / 75 | 9.37 |
| MINIMUM SIDE SET BACK | 15 / 35 | 48.06 |
| MINIMUM REAR SETBACK | 40 / 50 | 147.10 |
| MAX HEIGHT | 38 / 50 | 18 |
| EASEMENT A | REA (TRACT 1 APPROXIMATE | ELY 3,706 SF) |
| | EXISTING | PROPOSED |
| IMPERVIOUS SURFACE | 231.4 SF | 719.4 SF |

NOTE

- 1. CONTRACTOR SHALL REFER TO APPENDIX B OF THE CONTRACT SPECIFICATIONS. CONTRACTORS SHALL PROVIDE SIDING, ROOFING AND DOORS TO MATCH THE EXISTING BUILDING AS SPECIFIED HEREIN.
- 2. THE PROPOSED CMU BLOCK BUILDING SHALL BE CONSTRUCTED AROUND THE EXISTING 250 GPM WELL. THE EXISTING WELL HEAD SHALL BE MODIFIED BY REMOVAL OF THE PITLESS ADAPTOR AND EXTENSION OF CASING ABOVE FINISHED FLOOR ELEVATION. SEE DETAIL SHEET D-1.
- 3. THE NEW OVERBOARD CONNECTION SHALL BE EQUIPPED WITH CHECK VALVE, GATE VALVE, AND BLIND FLANGE CONNECTION. DURING RUNNING OF THE OVERBOARD, A HOSE WILL BE CONNECTED TO OVERBOARD WATER TO THE BASIN.
- 4. THERE IS NO SANITARY OR SEPTIC ONSITE. BACKWASH PIPING HAS BEEN EQUIPPED WITH A SS QUICK CONNECT AND CAP FOR TRUCKING AND BACKWASH WATER.

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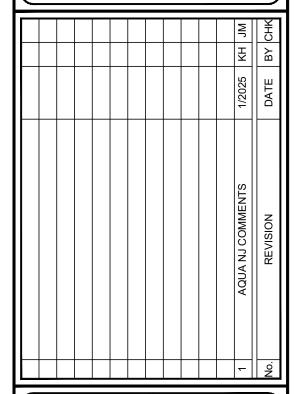
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DATE: /-3/-2025

STEPHANIE A. CUTHBERT NJ PROFESSIONAL ENGINEER LIC. No. 42136

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NO. 9 PROPOSED
SITE PLAN

PFAS TRE

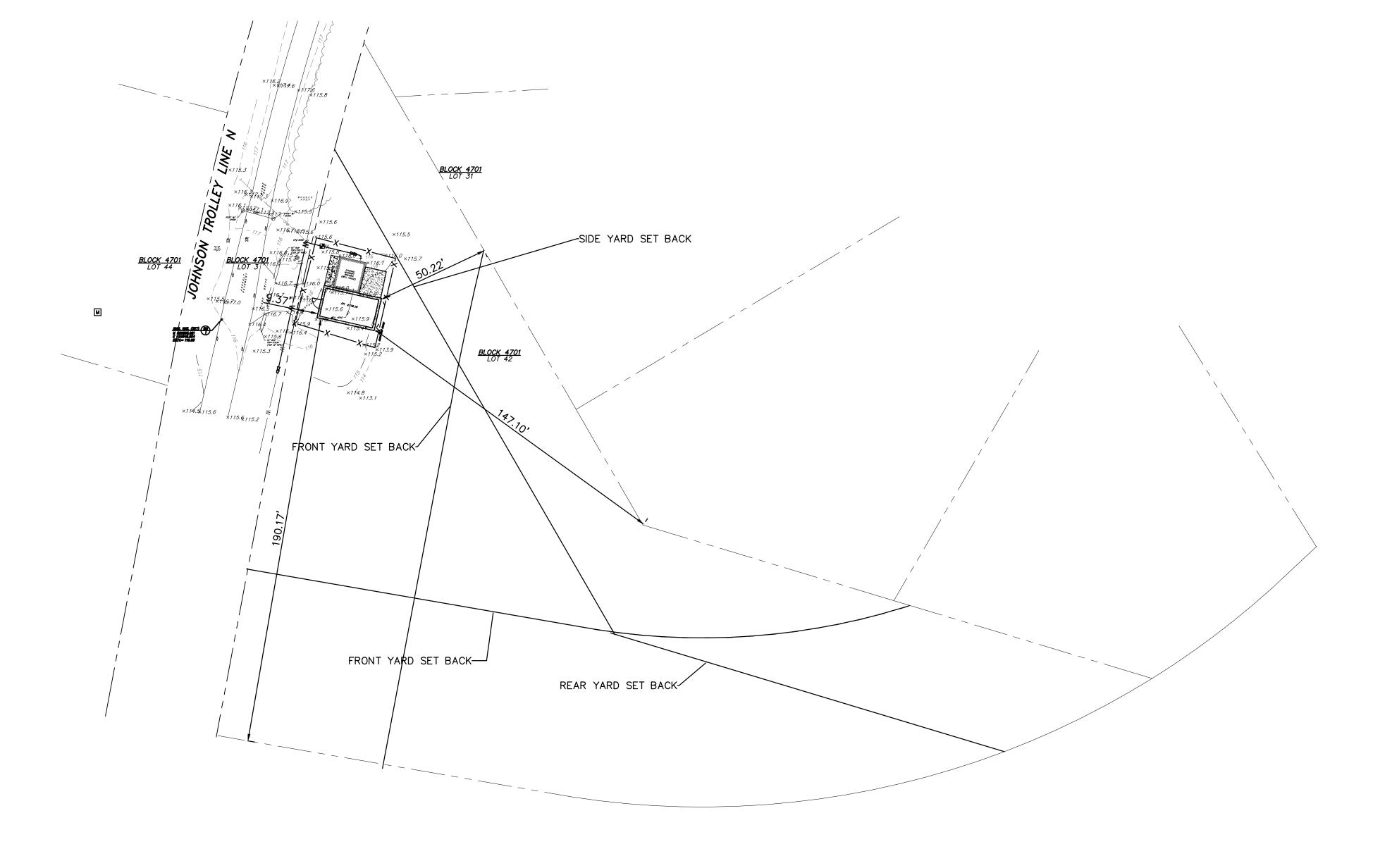
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 DESIGN BY:
 CHECKED BY:
 SCALE:

 K.H.
 K.H.
 D.F./S.C.
 AS NOTED

 DATE:
 MAY 2024
 SHEET No.:

 JOB No.:
 3908X023
 C-7



GRAPHIC SCALE

1 inch = 10 ft.

| LAND | USE AND ZC | NING |
|------------------------------|----------------------------------|--------------------|
| В | LOCK 4701, LOT 4 | 2 |
| (| OS — OPEN SPACE | - |
| PRESENT AND PROPOSE | ED LAND USE: PRODUCTION FACILITY | WELL AND TREATMENT |
| ZONING REQUIREMENT | REQUIRED | PROPOSED |
| TOTAL IMPERVIOUS COVERAGE | 15% | ~3.4% |
| MINIMUM FRONT SET BACK | 75 | 9.37 |
| MINIMUM SIDE SET BACK | 35 | 48.06 |
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| MAX HEIGHT | 50 | 18 |

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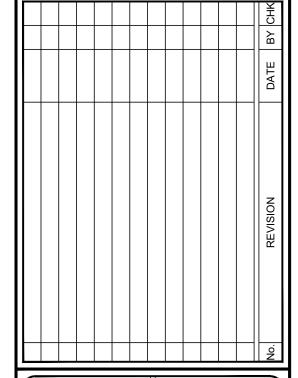
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STEPHANIE A. CUTHBE

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NO. 9 PROPOSED
SITE PLAN
AQUA NEW JERSEY

AQUA NEW JERSEY
WELL NO. 9
PFAS TREATMENT IMPRO

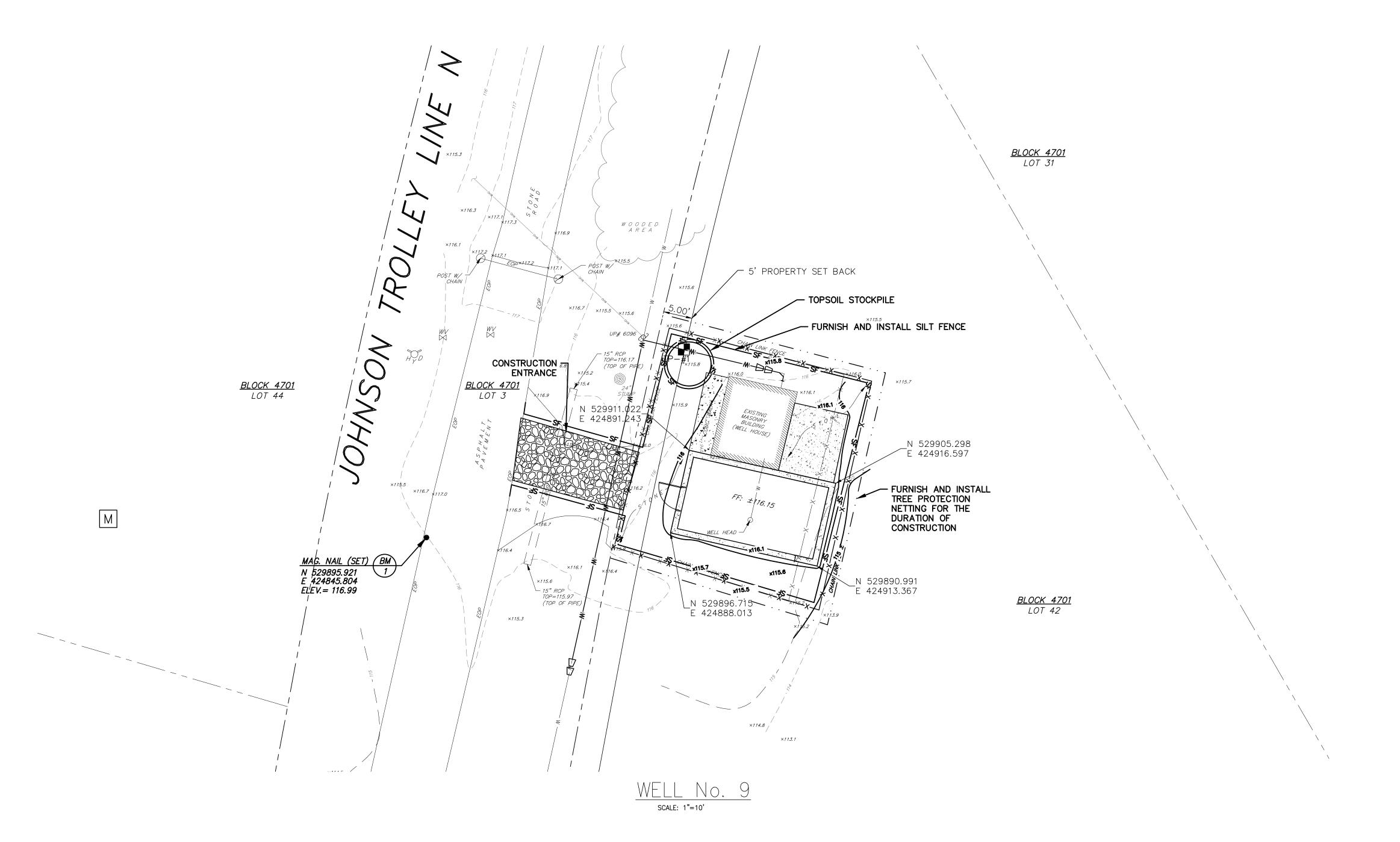
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 CHECKED BY:
 SCALE:

 K.H.
 K.H.
 D.F./S.C.
 AS NOTED

C-7.2

MAY 2024

JOB No.:



GRAPHIC SCALE

1 inch = 10 ft.

- CONTRACTOR SHALL INSTALL ALL SESC FEATURES PRIOR TO BEGINNING WORK.
- 2. PROPOSED GRADING SHALL MATCH EXISTING CONTOURS AT THE LIMITS OF DISTURBANCE. THE DRAINAGE OF THE SITE TO ADJACENT PROPERTIES SHALL NOT BE MODIFIED AS PART OF ANY GRADING.

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AQUA NJ COMMENTS 1/2025 KH JM
REVISION DATE BY CHK

3, & SESC PLAN
AQUA NEW JERSEY
WELL NO. 9

AQUA NEW JERSEY
WELL NO. 9
PFAS TREATMENT IMPR

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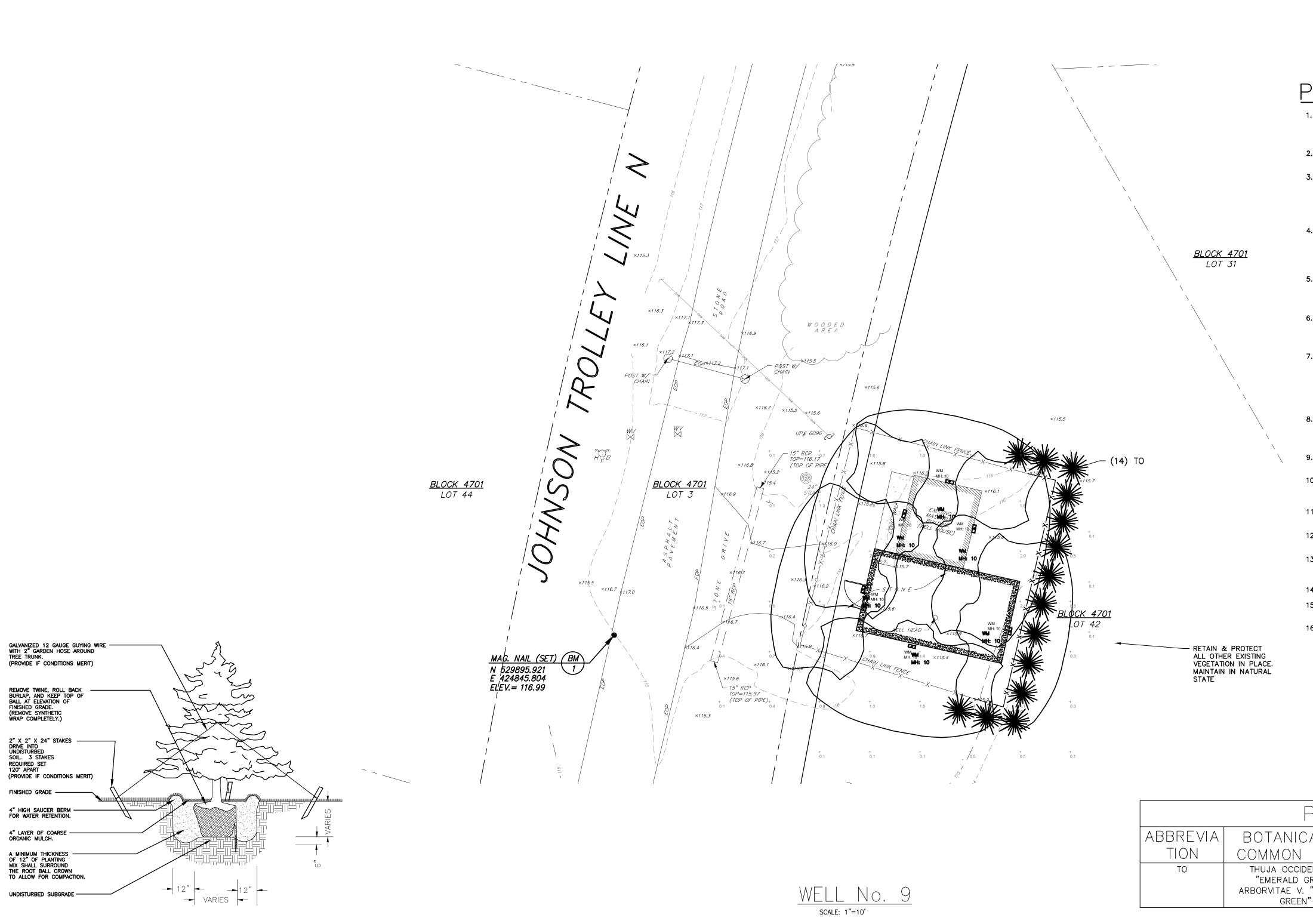
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DATE: SHEET No.:

MAY 2024

JOB No.:

C-8



PLANTING NOTES:

- 1. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF QUANTITIES, SIZES, AND OTHER REQUIREMENTS IS SHOWN ON THE PLANT LIST. IN THE EVENT THAT DISCREPANCIES OCCUR BETWEEN THE QUANTITIES OF PLANTS INDICATED IN THE PLANT LIST AND THOSE INDICATED ON THE PLAN, THE PLANT QUANTITIES INDICATED ON THE PLAN SHALL GOVERN.
- NO SUBSTITUTIONS SHALL BE ACCEPTED, EXCEPT WITH WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT OR OWNER'S AGENT.
- 3. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, SUNSCALD INJURIES, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL OTHER FORMS OF INFECTIONS. ALL PLANT MATERIAL INSTALLED BETWEEN OCTOBER 15 AND MARCH 15 SHALL BE THOROUGHLY WETTED WITH AN ANTI-TRANSPIRANT UPON DELIVERY OF THE MATERIAL TO THE SITE.
- 4. QUALITY AND SIZE OF PLANT, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1) AS PUBLISHED BY AMERICANHORT. THE TRANSPLANTING AND PLANTING OF TREES AND SHRUBS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "ANSI A300 PART 6: TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE—STANDARD PRACTICES (TRANSPLANTING)."
- 5. PLANTING MIXTURE SHALL CONSIST OF 70%% EXISTING SOIL FROM THE PLANTING SITE AND 30% HUMUS OR MUSHROOM SOIL. PRIOR TO USING EXISTING TOPSOIL, REMOVE ALL FOREIGN DEBRIS AND ALL ROCKS OR STONES LARGER THAN 2 INCHES. EACH CUBIC YARD SHALL BE ADDED AND INCORPORATED BY THOROUGHLY MIXING, FOUR POUNDS OF COMMERCIAL FERTILIZER HAVING AN ANALYSIS OF 6-6-6.
- 6. ALL PLANTS (B&B OR CONTAINER) SHALL BE PROPERLY IDENTIFIED BY WEATHERPROOF LABELS AND SECURELY ATTACHED THERETO BEFORE DELIVERY TO THE PROJECT SITE. LABELS SHALL IDENTIFY THE PLANTS BY COMMON NAME, BOTANICAL NAME AND SIZE. LABELS SHALL NOT BE REMOVED UNTIL FINAL INSPECTION BY THE LANDSCAPE ARCHITECT.
- 7. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWO (2) YEARS FROM THE COMPLETION DATE OF INSTALLATION. ANY PLANT MATERIAL THAT IS 25% DEAD OR MORE SHOULD BE CONSIDERED DEAD AND MUST BE REPLACED. A TREE SHOULD BE CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED BACK OR WHEN 25% OF THE CROWN IS DEAD. REPLACEMENT SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.
- 8. THE LANDSCAPE ARCHITECT OR OWNER'S AGENT SHALL BE NOTIFIED OF ANY RELOCATION OF PLANTS MADE NECESSARY BY UTILITIES OR OTHER EXISTING FEATURES PREVENTING THE CONTRACTOR FROM IMPLEMENTATION OF THE PLANTING PLAN AS DRAWN. SUCH NOTIFICATION SHALL BE MADE BEFORE THE FIELD CHANGE IS CARRIED OUT.
- 9. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED INCLUDING ALL LABOR, MATERIALS, PLANTS, AND EQUIPMENT, INCIDENTALS AND CLEAN UP.
- 10. INSOFAR AS PRACTICABLE, PLANT MATERIALS SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED LONGER THAN A TWO (2) DAY PERIOD AFTER DELIVERY.
- 11. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTABLE LOCAL PRACTICE.
- 12. ALL NON-BIODEGRADABLE ROOT WRAPPINGS (INCLUDING WIRE BASKETS) ARE TO BE REMOVED COMPLETELY BEFORE PLANTING.
- 13. TREES ARE TO BE SUPPORTED IMMEDIATELY AFTER PLANTING IF CONDITIONS MERIT. TREES SIX (6) INCHES AND OVER IN CALIPER SHALL BE GUYED. SMALLER TREES SHALL BE STAKED. GUYING WIRES AND STAKES SHALL BE AS INDICATED.
- 14. UNLESS OTHERWISE NOTED, ALL DECIDUOUS AND EVERGREEN TREES SHALL HAVE A SINGLE TRUNK.

 15. DECIDUOUS AND EVERGREEN TREES WHICH ARE B&B SHALL BE DRUM LACED IN LIEU OF WIRE
- 16. PROVIDE TREE PROTECTION FENCING FOR EXISTING VEGETATION AND WOODED AREA INCLUDING ALL NECESSARY SIGNAGE.

| | PLANT | SCHE | EDULE | | |
|------------------|--|------|-------|--------|------|
| ABBREVIA TION | BOTANICAL / COMMON NAME | SIZE | CONT. | HEIGHT | QTY. |
| ТО | THUJA OCCIDENTALIS "EMERALD GREEN" ARBORVITAE V. "EMERALD GREEN" | _ | B&B | 5'-6" | 14 |

EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

GRAPHIC SCALE

(IN FEET)

1 inch = 10 ft.

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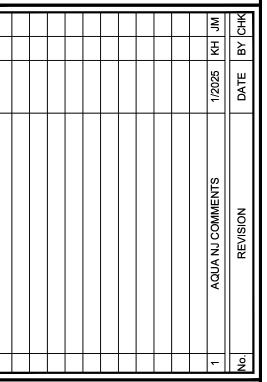
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NDSCAPING PLAN

AQUA NEW JERSEY
WELL NO. 9
TREATMENT IMPROVFI

AQUAN WEL PFAS TREATMEI

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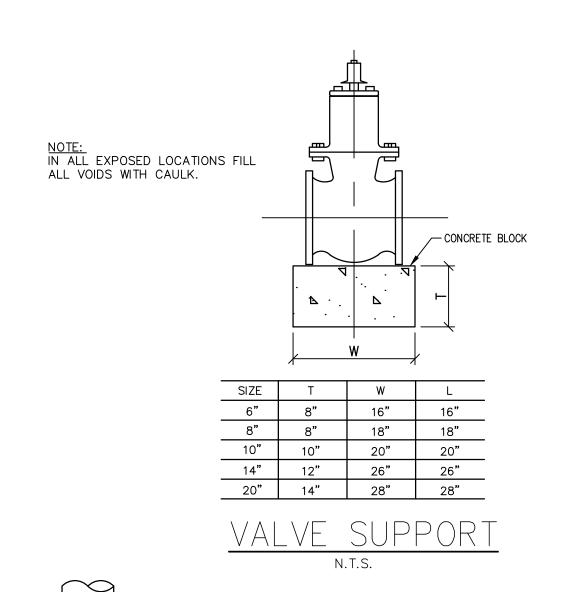
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DATE: SHEET No.:

MAY 2024

JOB No.:

LA-2



<u></u> 1" MIN.

PIPE STAND SIZES

PLATE

6"x6"x3/8"

10"x10"x1/2"

SIZE

THREADED

3/4"

1 FOR PIPES W/CL ELEVATIONS 24" MAX AFF

PIPE SADDLE WITH ADJUSTABLE

STANCHION

2 GALV SUPPORTS WHEN USED OUTDOORS SANDBLAST AND SHOP PRIME ALL OTHERS

PIPE SIZE | PIPE STAND

8"ø AND

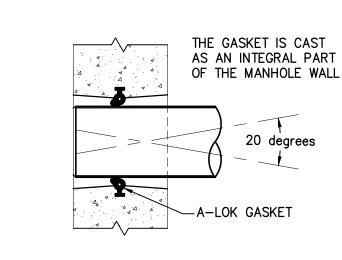
SMALLER

16"ø

NOTES:

(SCH 40)

1-1/4"



TYPICAL A-LOK SECTION

INSULATION AS REQUIRED

TYPE 38 SADDLE

3/4" SCH 40 PIPE

3/4" THREADED ROD

HEX NUT AND WASHER

INTO PIPE L/2 MIN

1200 G SERIES

PIPE SIZE

WELDED TO

PLATE (SCH 40)

1-1/2"

ROD LENGTH EXTENSION

1/2"ø EXPANSION ANCHOR TYP

TO RED HEAD OR EQUAL WS

─ PRESSURE GAUGE (0-200 PSI) - DIAPHRAGM PROTECTION MOUNT TO MAIN WITH -SERVICE SADDLE -1" DIA. BALL VALVE - 2" THREADED UNION REDUCE TO 1" DIA. PIPING SERVICE SADDLE -

MODEL S LINK SEAL BY THURNDERLINE CORP. OR EQUAL 1" MIN.— FLOOR SLAB PIPE SLEEVE SCHEDULE 40 STAINLESS STEEL

N.T.S.

MATCH FTG. REINF.

- PROVIDE PIPE SLEEVE 2" LARGER THAN UTILITY

PIPE. PACK VOIDS WITH

-STEP WALL FOOTING DOWN BELOW PIPE ELEVATION

∕6" DIA. DISCHARGE FLANGE, MOORE #1 OR APPROVED EQUAL

2"ø STEEL WELL VENT W/INSECT
SCREEN TO EXTEND ABOVE TOP

EXTEND EX. 16" OUTER CASING TO 2'-6" ABOVE FIN. FLOOR

√FOR WELL#6 REPLACE 6"ø STEEL PUMP

COLUMN PIPE AND DISCHARGE HEAD

FOR WELL#9 REPLACE 4"Ø STEEL PUMP COLUMN PIPE AND DISCHARGE HEAD

WELL LEVEL TRANSDUCER CABLE IN 1

EXTEND 10" STEEL INNER CASING TO

REMOVE EX. STEEL PITLESS ADAPTOR

DISCONNECT AND REMOVE EX. WELL DISCONNECT PIPING TO WELL HOUSE

-EXISTING 16" Ø STEEL OUTER

OF PUMP FOUNDATION

2.5'x2.5'x5' DEEP REINFORCED CONC.

PUMP FOUNDATION

4"ø STEEL ACCESS TUBE @ 45° ANGLE

1/4"ø PVC CONDUIT

2'-6" ABOVE FIN. FLOOR.

AND DISCHARGE BODY

CASING~50' DEEP

-EX. 10"ø STEEL INNER

SUBMERSIBLE WELL PUMP 4 STAGES FOR WELL #6

1. WELL #6 REINSTALL 3/4" STEEL SST INJECTION

2. WELL #9 REINSTALL TWO (2) 3/4" STEEL SST

INJECTION PIPE TO 140' AND 340' BELOW TOC.

SHALL BE PAID UNDER ALLOWANCE IN BIDFORM.

3. ALL WELL MODIFICATIONS TO BE COMPLETED BY

4. WORK ASSOCIATED WITH EXTENDING THE WELL CASING AND NEW WELL HEAD FOUNDATION

7 STAGES FOR WELL #9

PIPE TO 470' BELOW TOC.

SUBSURFACE TECHNOLOGIES.

N.T.S.

CLEAN SAND.

Stephane Cuth DATE: 1 - 31 - 2025

NJ PROFESSIONAL ENGINEER LIC. No. 42136

REMINGTON

ENGINEERS

2059 SPRINGDALE ROAD

CHERRY HILL, NJ 08003

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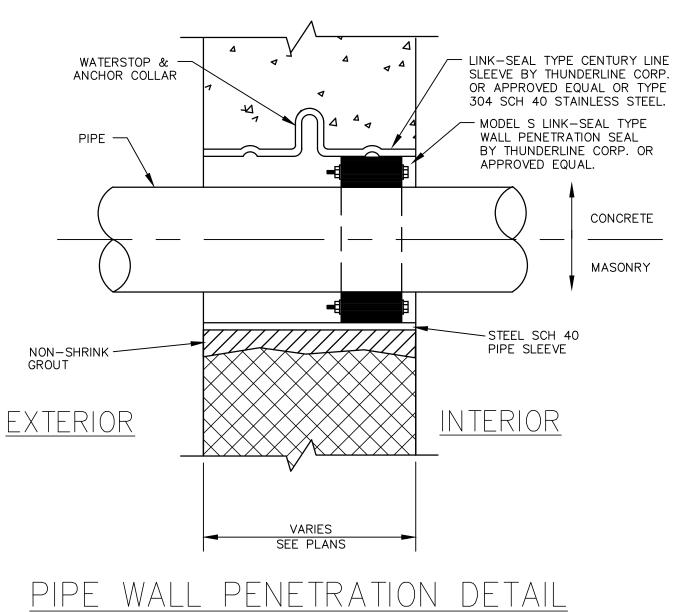
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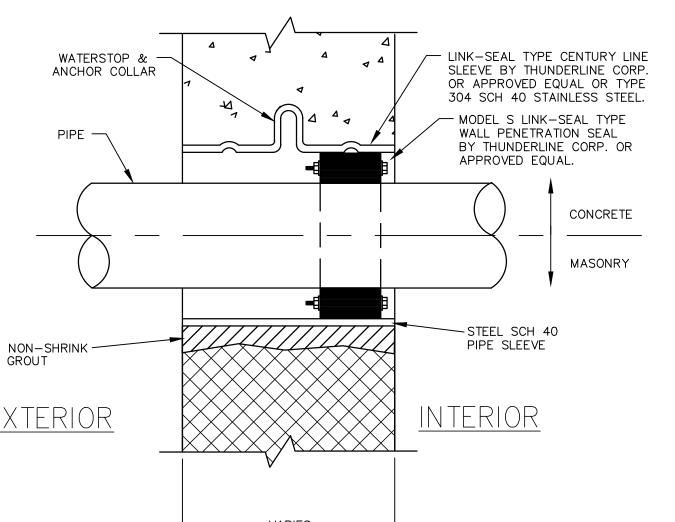
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| | | | | | | AQUA NJ COMMENTS | |

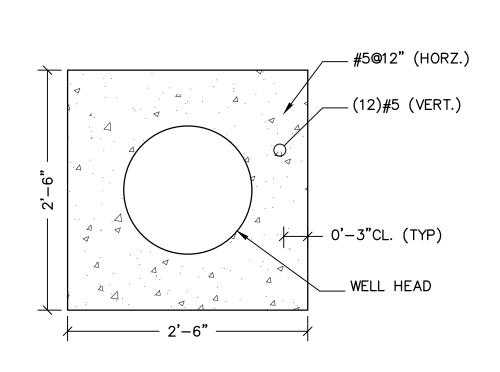
WELL NO. 9 EATMENT IMPRO #

DRAWN BY: DESIGN BY: CHECKED BY: SCALE K.H. K.H. D.F./S.C. AS NOTED SHEET No.: MAY 2024 D-1 JOB No.: 3908X023

PRESSURE GAUGE ASSEMBLY DETAIL

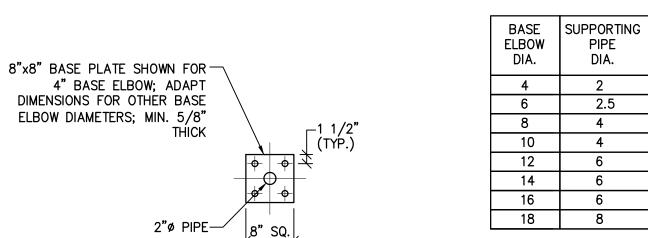






WELL HEAD FOUNDATION DETAIL

FLANGE D.I. 90° BASE ELBOW -STAINLESS STEEL BOLTS -1/2" PLATE TO MATCH BASE ELBOW* -SCH.40 PIPE*(CONTINUOUS WELD TO BASE PLATES) BASE PLATE --(4) 1/2"ø S.S. EXP. 3/4"GROUT ANCHOR BOLTS, W/4" MIN. EMB. 8"x 5/8"x 0'-8" PLATE* *PAINT AFTER INSTALLATION (STEEL) UNLESS NOTED TO BE STAINLESS STEEL





WELL MODIFICATION DETAIL

DIRECT READ DRAWDOWN—GAUGE W/ 1/4" S.S. AIR TUBE

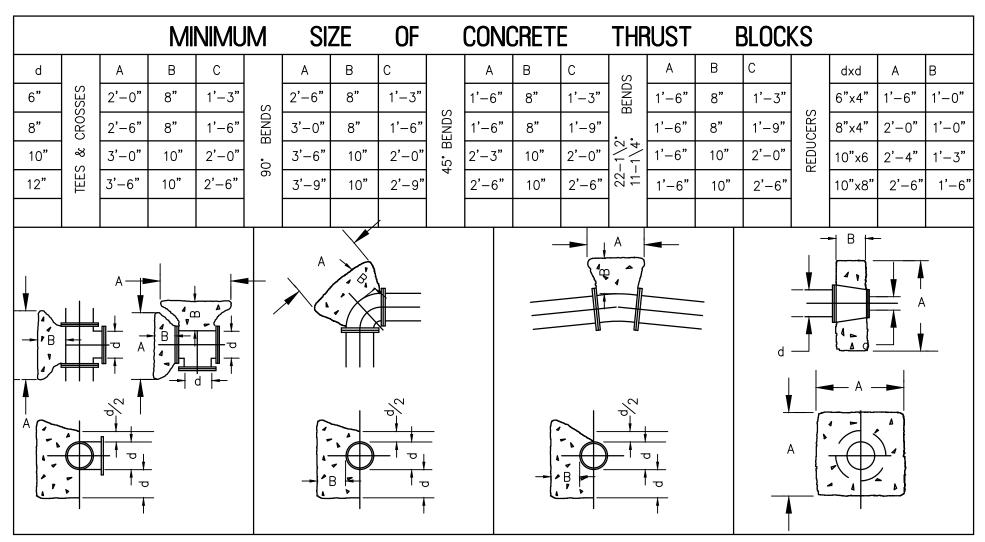
TO TOP OF BOWL ASSEMBLY

9# #8

(275'± FOR WELL #6)

(300'± FOR WELL #9)

N.T.S.



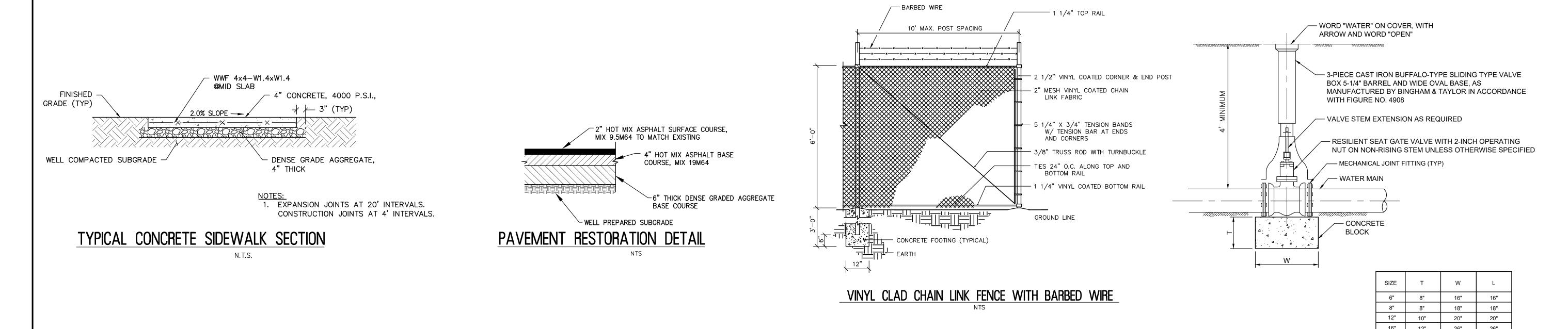
- THRUST BLOCKS TO BE USED FOR WATER MAIN AND FORCE MAINS AT ALL BENDS, TEES, REDUCERS AND PLUGS.
 BEARING AREAS FOR THRUST BLOCKS ARE BASED ON THE UNDISTURBED SOIL WITH BEARING CAPACITY OF 1000 LBS.
 PER SQ. FT. FOR OTHER SOILS OF LESS BEARING CAPACITY, THE AREAS SHALL BE ADJUSTED ACCORDINGLY, (FIG. 14,
- ASCE "PIPELINE DESIGN FOR WATER AND WASTEWATER, 1975").
- 3. ALL CONCRETE FOR THRUST BLOCKS SHALL BE 3000 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS.
- 4. THE THRUST BLOCKS SHALL BE POURED FROM FITTING SUCH THAT THEY BEAR ON THE UNDISTURBED WALL OF THE TRENCH.

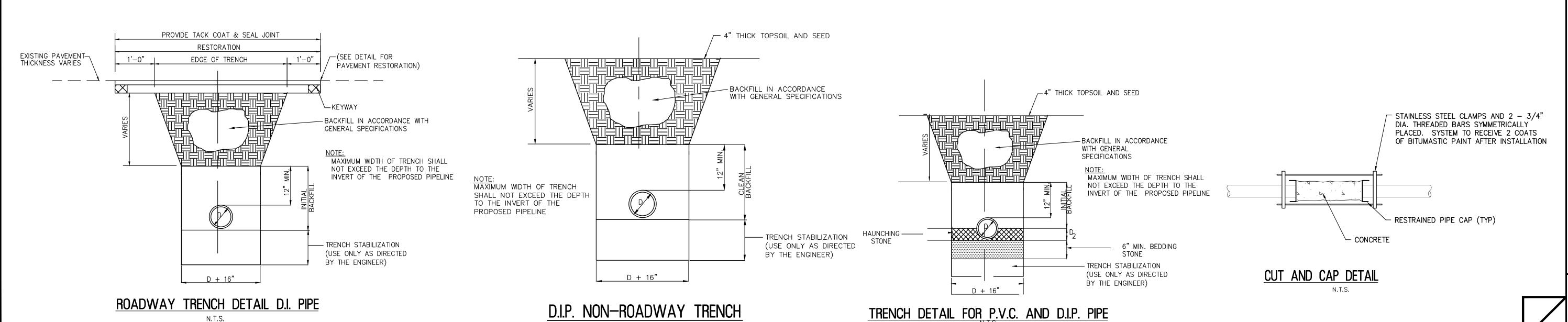
 5. THE TABULATED CONTACT BEARING AREAS LISTED ARE FOR HORIZONTAL AND DOWNWARD THRUST ONLY AND ARE NOT

THE TABULATED CONTACT BEARING AF APPLICABLE FOR UPWARD THRUST.

THRUST BLOCK DETAIL FOR SYSTEMS AT 150 PSI TEST PRESSURE OR LESS

N.T.S.





RVE

REMINGTON & VERNICK ENGINEERS

2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB ADDRESS: RVE.COM
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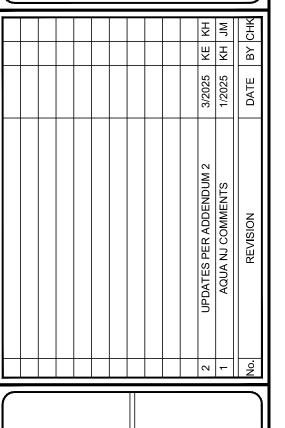
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DATE: 1-31-2025

NJ PROFESSIONAL ENGINEER LIC. No. 42136

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20" 14" 28"

DETAILS #2 - WELL NO. 9

AQUA NEW JERSEY

WELL NO. 9

PFAS TREATMENT IMPROVEMENTS
USHIP OF LAWRENCE

MERCER COUNTY

NEW JER

 DRAWN BY :
 DESIGN BY :
 CHECKED BY :
 SCALE :

 K.H.
 K.H.
 D.F./S.C.
 AS NOTED

 DATE :
 SHEET No. :

 MAY 2024
 D-2

 JOB No. :
 3908X023

_____X ____

SILT FENCE (TYPICAL)

LIMIT OF DISTURBANCE (TYPICAL)

FINAL RESTORATION

REMOVAL OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS

SEEDING PERIODS IN SPRING AND FALL.

CLETHRA ALNIFOLIA- SUMMERSWEET

ILEX VERTICILLATE— WINTERBERRY

ROSA PALUSTRIS- SWAMP ROSE SALIX DISCOLOR- PUSSY WILLOW

VIBURNUM NUDUM- POSSUMHAW

LINDERA BENZOIN- SPICEBUSH

CORNUS SERICEA- RED-TWIG DOGWOOD

RHODODENDRON VISCOSUM- SWAMP AZALEA

VACCINIUM CORYMBOSUM- HIGHBUSH BLUEBERRY

VIBURNUM DENTATUM- ARROWWOOD VIBURNUM

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DATE: 1-31-2025

STEPHANIE A. CUTHBERT NJ PROFESSIONAL ENGINEER LIC. No. 42136

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No. REVISION DATE B

ION SEDIMENT
ETAIL SHEET #1 JO. 6 & NO.

NEW JERSEY
ILL NO. 9

MELL NO. 6 & NC

 $\sum_{i=1}^{n} \sum_{j=1}^{n} a_{ij}$

V PFAS TREATI

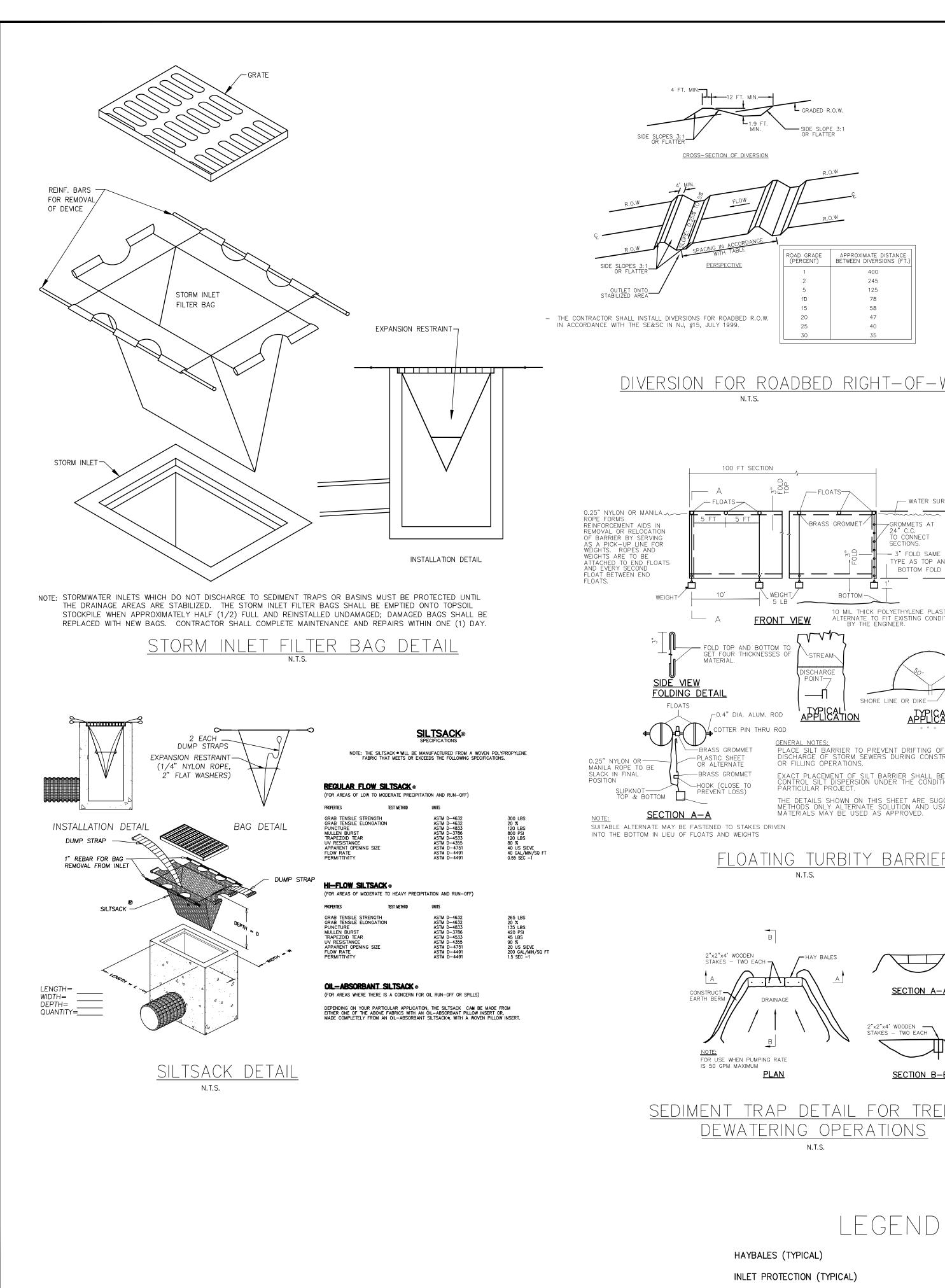
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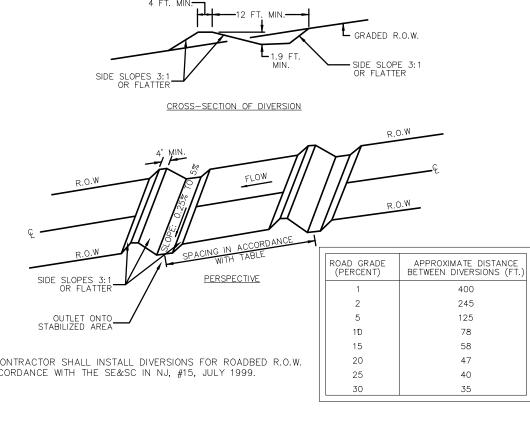
DRAWN BY: DESIGN BY: CHECKED BY: SCALE:
K.H. K.H. D.F./S.C. AS NOTE

DATE: SHEET No.:
MAY 2024

JOB No.:
3908X023

THIS PLAN TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY





DIVERSION FOR ROADBED RIGHT-OF-WAY

FINISHED GRADE

A PH OF 5.0 OR MORE.

2. IRON SULFIDE MINERALS WILL PRODUCE SULFURIC ACID

WHEN EXPOSED TO THE AIR OR SURFACE WATERS.

3. SOIL USED TO COVER ACID PRODUCING SOILS SHALL HAVE

BURIAL OF ACID PRODUCING SOILS

SNOW

FENCE OR APPROVED

N.T.S.

FILTERED

SEDIMENT

CONTROL BAC

BAG MUST BE LOCATED AWAY

FROM RECEIVING WATERS AND/OR CONSTRUCTION

ACTÍVITIES

REUSED.

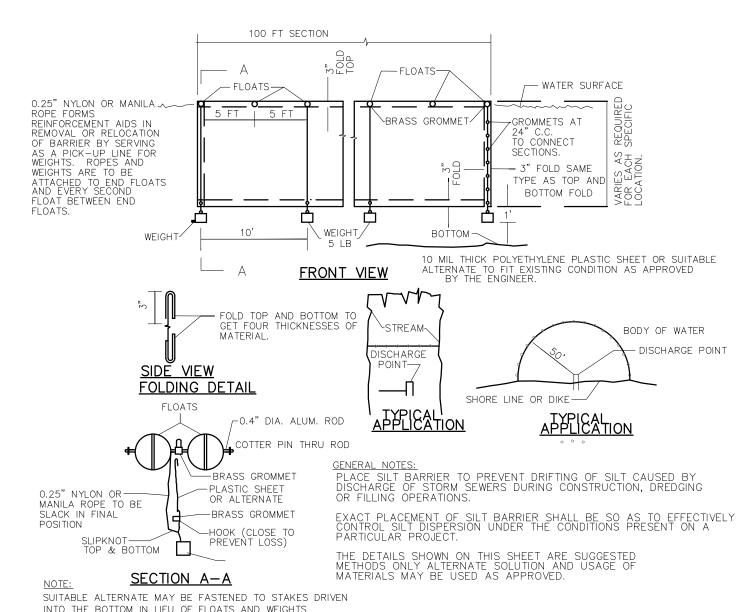
BAGS MUST BE DISPOSED OF

ACCORDING TO MANUFACTURER'S

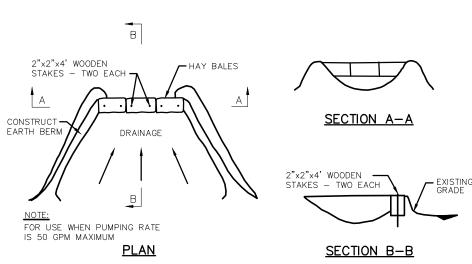
INSTRUCTIONS. BAGS MAY NOT BE

WATER FLOW

TREE PROTECTION DURING CONSTRUCTION



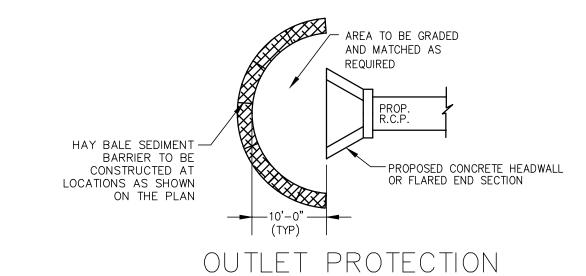
FLOATING TURBITY BARRIER



SEDIMENT TRAP DETAIL FOR TRENCH DEWATERING OPERATIONS

SILT FENCE (TYPICAL)

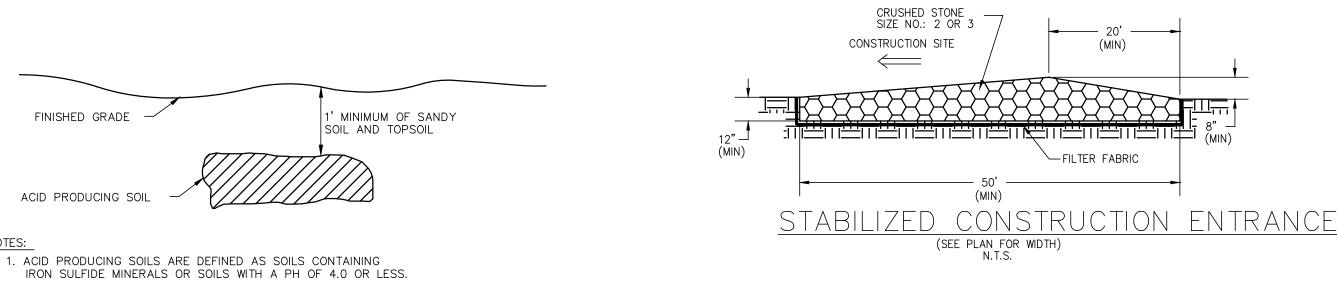
LIMIT OF DISTURBANCE (TYPICAL)

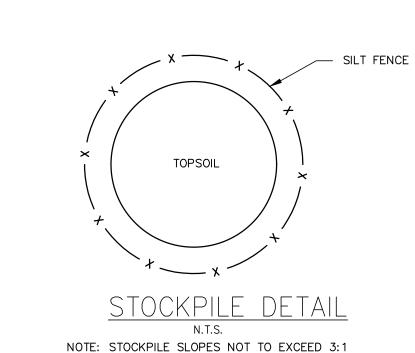


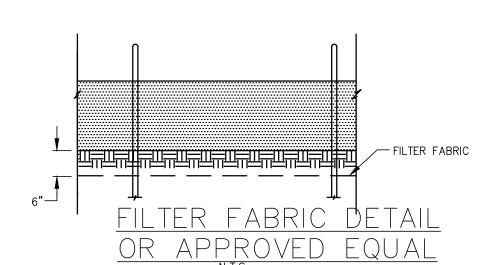
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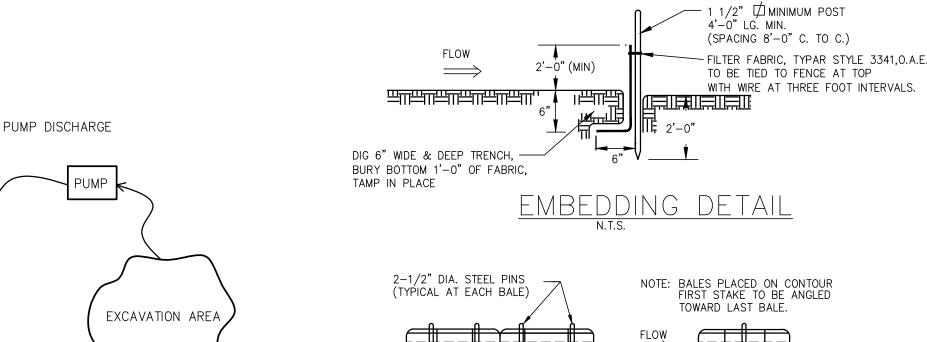
SEDIMENT CONTROL BAG FOR

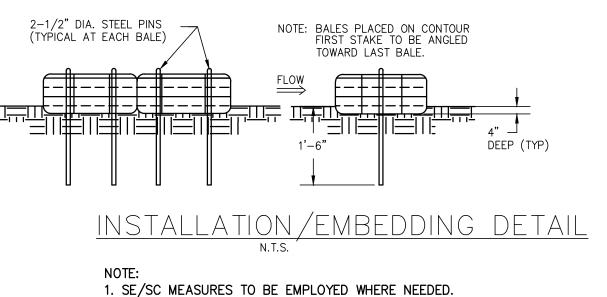
DEWA'TERING











THIS PLAN TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY!



REMINGTON & VERNICK **ENGINEERS**

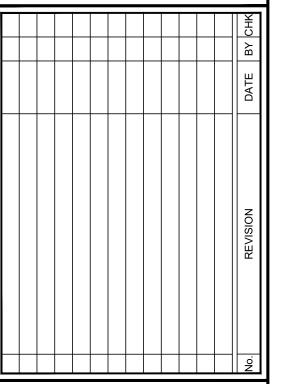
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EDIMENT SHEET #2 NO. SEI LSI

SOIL EROSION SONTROL DETAIL WELL NO. 6

DRAWN BY: DESIGN BY: CHECKED BY: SCALE: K.H. K.H. D.F./S.C. AS NOTED SHEET No.: MAY 2024 SESC-2 JOB No.: 3908X023

GENERAL NOTES

DESIGN CRITERIA

- 1. LIVE LOAD:
- A. ROOF LIVE LOAD 20 PSF B. FLOOR LIVE LOAD 125 PSF
- 2. DEAD LOAD:
- A. STRUCTURAL AND BUILDING COMPONENTS SELF WEIGHT
- 3. WIND LOADING PER IBC 2021 NEW JERSEY EDITION:
- A. BASIC WIND VELOCITY (V): 125 MPH
 B. EXPOSURE CATEGORY: C
- C. RISK CATEGORY:
- 4. SEISMIC LOADING PER IBC 2021 NEW JERSEY EDITION:
- A. RESPONSE ACCELERATOR: $S_S = 0.22$ $S_{DS} = 0.235$ $S_I = 0.052$ $S_{DI} = 0.083$ B. SEISMIC DESIGN CATEGORY: B C. SEISMIC SITE CLASSIFICATION: D

D. IMPORTANCE FACTOR I_E : 1.25

- 5. SNOW LOADING PER IBC 2021 NEW JERSEY EDITION:
 - A. GROUND SNOW LOAD: 30 PS
- B. IMPORTANCE FACTOR: 1.1
- 6. SPECIAL LOADS:
- A. HANDRAILS/GUARDRAILS: IN COMPLIANCE WITH THE PROVISIONS OF IBC 2021

 NEW JERSEY EDITION SEE PROJECT SPECIFICATIONS.

FOUNDATIONS

- 1. ALL EXISTING FILL MATERIALS, CONSISTING OF GRAVEL, BRICK FRAGMENTS, CONCRETE CHIPS, WOOD CHIPS, AND DEMOLITION DEBRIS SHALL BE REMOVED IN THE REGIONS OF ALL FOUNDATIONS AND UNDER AREAS OF SLAB—ON—GRADE.
- 2. THE SLAB ON GRADE SHALL REST ON A MINIMUM OF 6 INCHES OF COMPACTED GRANULAR FILL.
- 3. PROOF ROLL SLAB SUBGRADE UNDER THE DIRECTION OF THE INSPECTION AGENCY. REMOVE ALL UNSUITABLE AREAS AND REPLACE WITH COMPACTED STRUCTURAL FILL MATERIALS. COMPACT FILL TO AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE ASTM D 1557 MODIFIED PROCTOR TEST.
- 4. SHALLOW FOUNDATIONS SHALL BE FOOTINGS TO BEAR ON UNDISTURBED SOIL, HAVING A MINIMUM SAFE BEARING CAPACITY OF 3.0 KSF. THE TESTING AND INSPECTION AGENCY SHALL VERIFY SOIL BEARING CAPACITY AT EACH WALL FOOTING PRIOR TO INSTALLATION OF FOOTING. NOTIFY ENGINEER OF ANY VARIATION FROM ANTICIPATED BEARING CAPACITY FOR APPROPRIATE REDESIGN OF FOOTING.
- 5. THE BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE 2'-6" MINIMUM BELOW FINISHED GRADE.
- 6. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
- 7. ALL ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.
- 8. BACKFILLING AGAINST WALLS SHALL NOT BE DONE UNTIL CONCRETE HAS BEEN CURED TO ATTAIN SUFFICIENT STRENGTH (7 DAYS MINIMUM) AND WALLS ARE PROPERLY SHORED AND/OR BRACED. BACKFILL FOUNDATION WALLS WITH EARTH ON BOTH SIDES OF THE WALL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 1'-6" FROM OTHER SIDE.
- 9. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER.
- 10. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER.
- 11. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

FOUNDATION CONCRETE

- 1. ALL CONCRETE SHALL BE NORMAL WEIGHT STRUCTURAL CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
- A. FOOTINGS 4,000 PSI
 B. WALLS AND PIERS 4,000 PSI
 C. SLAB-ON-GRADE 4,000 PSI
- 2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE ENGINEER.
- 3. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A 615, GRADE 60. LAP BARS 40 DIAMETER UNLESS OTHERWISE SHOWN. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
- 4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
- 5. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP OF THE OUTERMOST CROSS WRES OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WRES PLUS 2 INCHES, UNLESS NOTED OTHERWISE.
- 6. FOR ALL SLABS ON GRADE WHERE NOT OTHERWISE SPECIFIED, USE 6x6-W2.9xW2.9
- 7. MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 1—INCH FOR INTERIOR FACE OF WALLS, 2 INCHES FOR EXTERIOR FACE OF WALLS, 3 INCHES FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE DEPOSITED AGAINST GROUND, 2 INCHES FOR CONCRETE PERMANENTLY EXPOSED TO EARTH OR WEATHER.
- 8. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAY'S POUR JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT DRAWING INDICATING CONSTRUCTION JOINT LOCATIONS FOR APPROVAL.
- 9. NO CONCRETE SHALL BE PLACED IN WATER.
- 10. ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN ON OR AS REQUIRED BY VARIOUS TRADES.
- 11. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE
- 12. FOR ADDITIONAL CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.

SUPERSTRUCTURE CONCRETE

- 1. ALL CONCRETE SHALL BE NORMAL WEIGHT STRUCTURAL CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:
- A. COLUMNS 4,000 PSI
 B. SLABS, BEAM 4,000 PSI
 C. WALLS 4,000 PSI
- 2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE ENGINEER.
- 3. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A 615, GRADE 60. LAP BARS 40 DIAMETER UNLESS OTHERWISE SHOWN. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
- 4. MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 3/4-INCH FOR SLABS, 1-INCH FOR INTERIOR FACE OF WALLS, 2-INCH FOR EXTERIOR FACE OF WALLS, 1 1/2-INCH FOR BEAM STIRRUPS AND COLUMN TIES, 2-INCH FOR VERTICAL COLUMN REINFORCING.
- 5. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAY'S POUR JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT DRAWING INDICATING CONSTRUCTION JOINT LOCATIONS FOR APPROVAL.
- 6. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT APPROVAL FROM THE ENGINEER. NO SLEEVES SHALL BE PLACED HORIZONTALLY OR VERTICALLY IN BEAMS OR JOISTS, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT APPROVAL FROM THE ENGINEER.
- 7. CONTRACTOR SHALL SUBMIT A COORDINATED DRAWING SHOWING ALL SLEEVES, OPENINGS, BLOCKOUTS, ETC., AS REQUIRED BY ALL TRADES, FOR APPROVAL, PRIOR
- 8. ALL SLABS SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN HEREIN OR ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- 9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.

TO PLACING CONCRETE IN THAT AREA.

- 10. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP BETWEEN OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 11. FOR ALL SLABS WHERE NOT OTHERWISE SPECIFIED USE STYLE 6x6-W2.9xW2.9 W.W.F.
- 12. FOR ADDITIONAL CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
- 13. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.

MASONRY

- HOLLOW CONCRETE MASONRY UNITS ASTM C90, GRADE N, TYPE 1 NORMAL WEIGHT 1900 PSI NET AREA COMPRESSIVE.
- 2. MORTAR SHALL BE ASTM C270, TYPE S FOR ALL REINFORCED MASONRY, EXTERIOR WALLS AND WALLS BELOW GRADE.
- 3. GROUT SHALL BE ASTM C476, 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
- 4. REINFORCING STEEL GRADE 60 REINFORCING BARS.
- 5. HORIZONTAL JOINT REINFORCEMENT ASTM A951.
- 6. STRENGTH OF MASONRY ASSEMBLY f'm = 1,500 PSI.
- 7. CONSTRUCTION SHALL CONFORM TO SPECIFICATIONS FOR MASONRY STRUCTURES, ACI
- 8. REINFORCING METAL TIES AND ANCHORS SHALL BE PROTECTED FROM CONTACT WITH SOIL AND BEFORE BEING PLACED SHALL BE FREE FROM LOOSE RUST AND OTHER COATINGS THAT WILL DESTROY OR REDUCE THE BOND. MINIMUM LAP SHALL BE 48 BAR DIAMETERS FOR REBAR AND 6" FOR JOINT REINFORCEMENT.
- 9. SHOP DRAWINGS SHOWING ALL BAR REINFORCING IN ELEVATION (1/8" TO 1'-0" MINIMUM SCALE) SHALL BE SUBMITTED AND REVIEWED PRIOR TO CONSTRUCTION.
- 10. ALL MASONRY WALLS TO HAVE 9 GAGE TRUSS TYPE HORIZONTAL REINFORCEMENT AT 16 INCHES ON CENTER.
- 11. MASONRY UNITS SHALL BE STEAM CURED, A MINIMUM OF 28 DAYS AT THE TIME OF DELIVERY AND CONTINUOUSLY PROTECTED FROM EXPOSURE TO RAIN OR OTHER SOURCES OF WATER FROM TIME OF CASTING TO FINAL PLACEMENT IN WALL. MASONRY UNITS SHALL BE DRY, FREE FROM SOIL, ICE AND FROST WHEN LAID IN WALL. SEE ACI 530.1 FOR COLD AND HOT WEATHER CONSTRUCTION AND WALL PROTECTION REQUIREMENTS.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, LATEST
- A. STRUCTURAL STEEL SHAPES ASTM A992 HAVING A MINIMUM YIELD STRENGTH OF
- B. MISC SHAPES, BARS, AND PLATES A 36 HAVING A MINIMUM YIELD STRENGTH
- OF 36 KS.

 C. ROUND PIPE A 53, GRADE B HAVING A MINIMUM YIELD STRENGTH OF 35 KS.
- D. SQUARE AND RECTANGULAR TUBING A 500, GRADE B HAVING A MINIMUM YIELD STRENGTH OF 46 KSI.
- 2. BOLTS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS: HIGH STRENGTH BOLTS—A 325 OR A 490; ANCHOR BOLTS—F1554; STANDARD FASTENERS—A 307.
- 3. ALL WELDING ELECTRODES SHALL CONFORM TO THE E-70 SERIES OF THE SPECIFICATION FOR MILD STEEL ARC WELDING ELECTRODES ASTM A 233.
- 4. ALL BOLTS SHALL BE 3/4-INCH DIAMETER, OPEN HOLES 13/16-INCH DIAMETER, UNLESS OTHERWISE SHOWN OR NOTED.
- 5. ALL SHOP CONNECTIONS MAY BE HIGH STRENGTH BOLTED OR WELDED.
- 6. ALL FIELD CONNECTIONS MAY BE HIGH STRENGTH BOLTED EXCEPT WHERE DETAILS INDICATE WELDING.
- 7. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS.
- 8. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE FULLY PRE-TENSIONED UNLESS NOTED OTHERWISE.
- 9. ALL HIGH STRENGTH BOLTS IN OVERSIZED HOLES SHALL BE SLIP CRITICAL.
- 10. ALL HIGH STRENGTH BOLTED CONNECTIONS USED FOR KICKERS AND BRACING MEMBERS WHICH ARE FABRICATED WITH SLOTTED HOLES SHALL USE SLIP—CRITICAL BOLTS. IF STANDARD HOLES ARE USED, BOLTS SHALL BE FULLY PRE—TENSIONED.
- 11. NO PENETRATIONS ARE PERMITTED THROUGH STRUCTURAL STEEL MEMBERS UNLESS INDICATED ON STRUCTURAL DRAWINGS OR APPROVED BY ENGINEER.
- 12. APPROVAL OF THE ENGINEER SHALL BE MANDATORY FOR THE USE OF CUTTING TORCH IN THE FIELD.
- 13. DURING ERECTION, STRUCTURAL STEEL FRAME SHALL BE ADEQUATELY BRACED IN ALL LINES, TWO WAYS.
- 14. CONNECTIONS SHALL BE DESIGNED PER AISC TO CARRY FULL CAPACITY OF UNIFORMLY LOADED MEMBER, UNLESS NOTED OTHERWISE. REACTIONS GREATER THAN FULL MEMBER CAPACITY ARE INDICATED THUS (60K) ON PLAN.
- 15. ALL GROUT UNDER STEEL PLATES SHALL BE NON-SHRINK "PRE-MIX" TYPE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
- 16. FOR ALL MISCELLANEOUS STEEL CONSTRUCTION NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
- 17. EXPANSION BOLTS SHALL BE 3/4-INCH DIAMETER KWIK BOLT ANCHORS AS MANUFACTURED BY HILTI OR APPROVED EQUIVALENT AS APPROVED BY THE ENGINEER, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 18. ALL STEEL COLUMN BASE PLATES SHALL INCLUDE LEVELING PLATES AS REQUIRED FOR CONSTRUCTION.
- 19. ALL EXPOSED / EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

WOOD FRAMING

- 1. PROVIDE ALL WOOD FRAMING MATERIALS AS SHOWN ON THE PLANS FOR COMPLETE CONSTRUCTION.
- 2. PROVIDE ALL MISCELLANEOUS WOOD FRAMING AND/OR BRACING AS REQUIRED FOR SUPPORT OF MECHANICAL, ELECTRICAL, PLUMBING OR MISCELLANEOUS APPURTENANCES.
- 3. ALL WOOD SHALL BE MINIMUM OF GRADE NO. 2 OR BETTER UNLESS OTHERWISE SHOWN
- 4. ALL ROOF SHEATHING SHALL BE INSTALLED WITH PANEL CLIPS.
- 5. PRE-MANUFACTURED WOOD ROOF TRUSSES SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS TO MEET REQUIRED OPENINGS FOR MISCELLANEOUS EQUIPMENT. TRUSS MANUFACTURER SHALL SUBMIT DESIGN DRAWINGS AND CALCULATIONS THAT COMPLY WITH REQUIRED DESIGN LOADS FOR APPROVAL PRIOR TO CONSTRUCTION PLANS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY LICENSED NEW JERSEY PROFESSIONAL ENGINEER.

MISCELLANEOUS

- 1. CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONDITIONS NOT AS ASSUMED; HE SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR SAME.
- 2. CONTRACTOR SHALL COORDINATE WITH ALL RELATED TRADES FOR DETAILING, FABRICATION, AND ERECTION PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.
- 3. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. REQUIREMENTS. DISCREPANCIES AND/OR INTERFERENCE SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 4. GENERAL CONTRACTOR TO PROVIDE APPROPRIATE NUMBER OF COPIES OF ONE COMPLETE COORDINATED DRAWING SHOWING ALL SLEEVES, CONDUIT BOXOUT, DUCT OPENINGS, ETC. AS REQUIRED FOR ALL TRADES FOR ENGINEER'S APPROVAL. THIS SHALL BE DONE A MINIMUM OF TWO WEEKS PRIOR TO POURING AFFECTED SLABS, COLUMNS, OR FOOTINGS.
- 5. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR OTHER APPROVAL FROM THE ENGINEER.
- 6. SUPPORT DETAILS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS BASED UPON AVAILABLE INFORMATION OF MANUFACTURER. CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ACTUAL EQUIPMENT AND SHALL PROVIDE ANY ADDITIONAL REQUIRED FRAMING.

| | ABBREVIATIONS |
|--------|-----------------------|
| ,4 | |
| E.F. | EACH FACE |
| WF1 | WALL FOOTING |
| CMU | CONCRETE MASONRY UNIT |
| V.I.F. | VERIFY IN THE FIELD |
| 0.C. | ON CENTER |
| E. W. | EACH WAY |
| T&B | TOP & BOTTOM |
| AL | ALUMINUM |
| CS | CARBON STEEL |
| SS | STAINLESS STEEL |
| CL | CENTER LINE |
| GALV. | GALVANIZED |
| T.O.M. | TOP OF MASONRY |
| | |

| STRUC | CTURAL DRAWING LIST |
|-----------|---|
| DRAWING # | DRAWING TITLE |
| S-1.0 | WELL NO. 6 AND WELL NO. 9 STRUCTURAL COVER SHEET |
| S-1.1(W6) | WELL NO. 6 FOUNDATION PLAN |
| S-2.1(W6) | WELL NO. 6 TOP SLAB PLAN |
| S-2.2(W6) | WELL NO. 6 STEEL FRAMING AND LINTEL PLAN |
| S-2.3(W6) | WELL NO. 6 BUILDING FLOOR PLAN |
| S-3.1(W6) | WELL NO. 6 BUILDING ROOF PLAN |
| S-4.1(W6) | WELL NO. 6 EXTERIOR BUILDING ELEVATIONS |
| S-4.2(W6) | WELL NO. 6 EXTERIOR BUILDING ELEVATIONS |
| S-4.3(W6) | WELL NO. 6 INTERIOR BUILDING SECTION |
| S-4.4(W6) | WELL NO. 6 INTERIOR BUILDING SECTION |
| S-5.1(W6) | WELL NO. 6 SECTIONS AND DETAILS |
| S-1.1(W9) | WELL NO. 9 FOUNDATION FLOOR PLAN |
| S-2.1(W9) | WELL NO. 9 TOP SLAB & LINTEL PLAN |
| S-2.2(W9) | WELL NO. 9 BUILDING FLOOR PLAN |
| S-3.1(W9) | WELL NO. 9 BUILDING ROOF PLAN |
| S-4.1(W9) | WELL NO. 9 EXTERIOR BUILDING ELEVATIONS |
| S-4.2(W9) | WELL NO. 9 EXTERIOR BUILDING ELEVATIONS |
| S-4.3(W9) | WELL NO. 9 INTERIOR BUILDING SECTIONS |
| S-5.1(W9) | WELL NO. 9 SECTIONS AND DETAILS |

RYE

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DATE:

STEPHANIE A. CUTHBERT

NJ PROFESSIONAL ENGINEER LIC. No. 42130

KENNETH C. RESSLEF NJ PROFESSIONAL ENGINEER LIC. No. 3455

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REVISION DATE BY

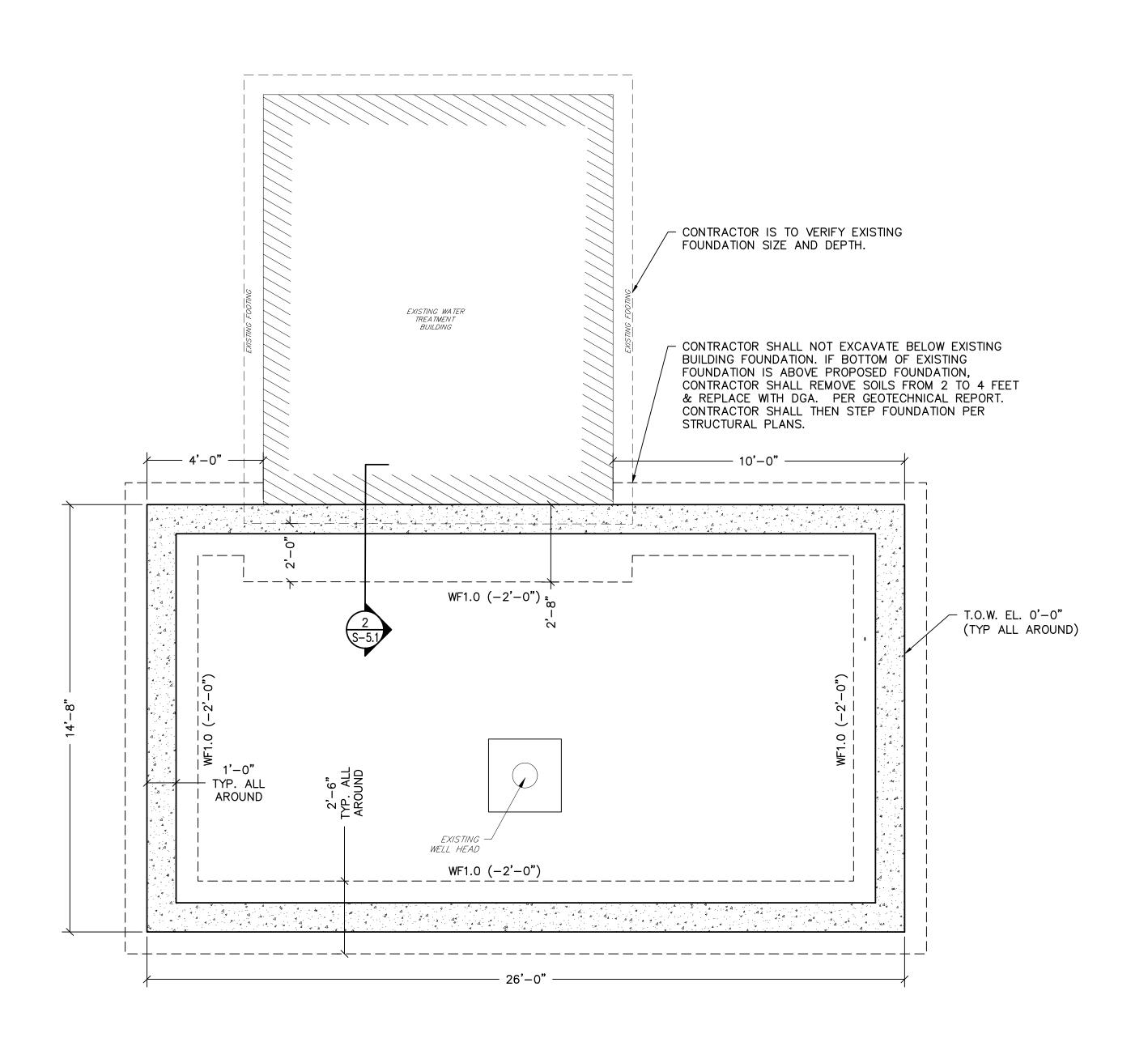
YELL NO. 6 AND WELL NO. 9
STRUCTURAL COVER SHEET
AQUA NEW JERSEY
WELL NO. 6 & WELL NO. 9
FAS TREATMENT IMPROVEMENTS

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 DESIGN BY:
 CHECKED BY:
 SCALE:

 J.G.
 R.C.
 J.T.
 AS NOTED

 DATE:
 SHEET No.:
 SHEET No.:

 FEB 2024
 S-1.0



FOUNDATION FLOOR PLAN SCALE: 3/8"=1'

(____) INDICATES T/FTG. EL. SUBTRACTED FROM F.F., T/F.F. @ EL. 0'-0" (= _____ ON CIVIL DRAWINGS) (____) INDICATES T/PIER. EL. SUBTRACTED FROM F.F., T/F.F. @ EL. 0'-0" (= _____ ON CIVIL DRAWINGS

WALL FOOTING SCHEDULE

WF1.0

 $2'-6"W \times 12"$ THICK W/ #5 @ 12" O.C. EACH WAY T&B

3/8" = 1'-0"

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DATE: 01.24.2025

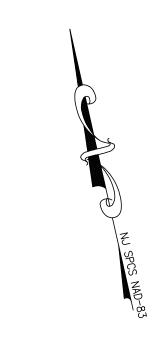
NJ PROFESSIONAL ENGINEER LIC. No. 34559

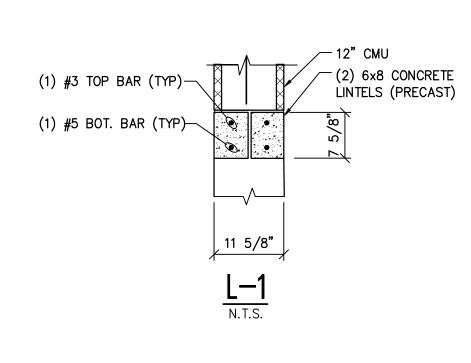
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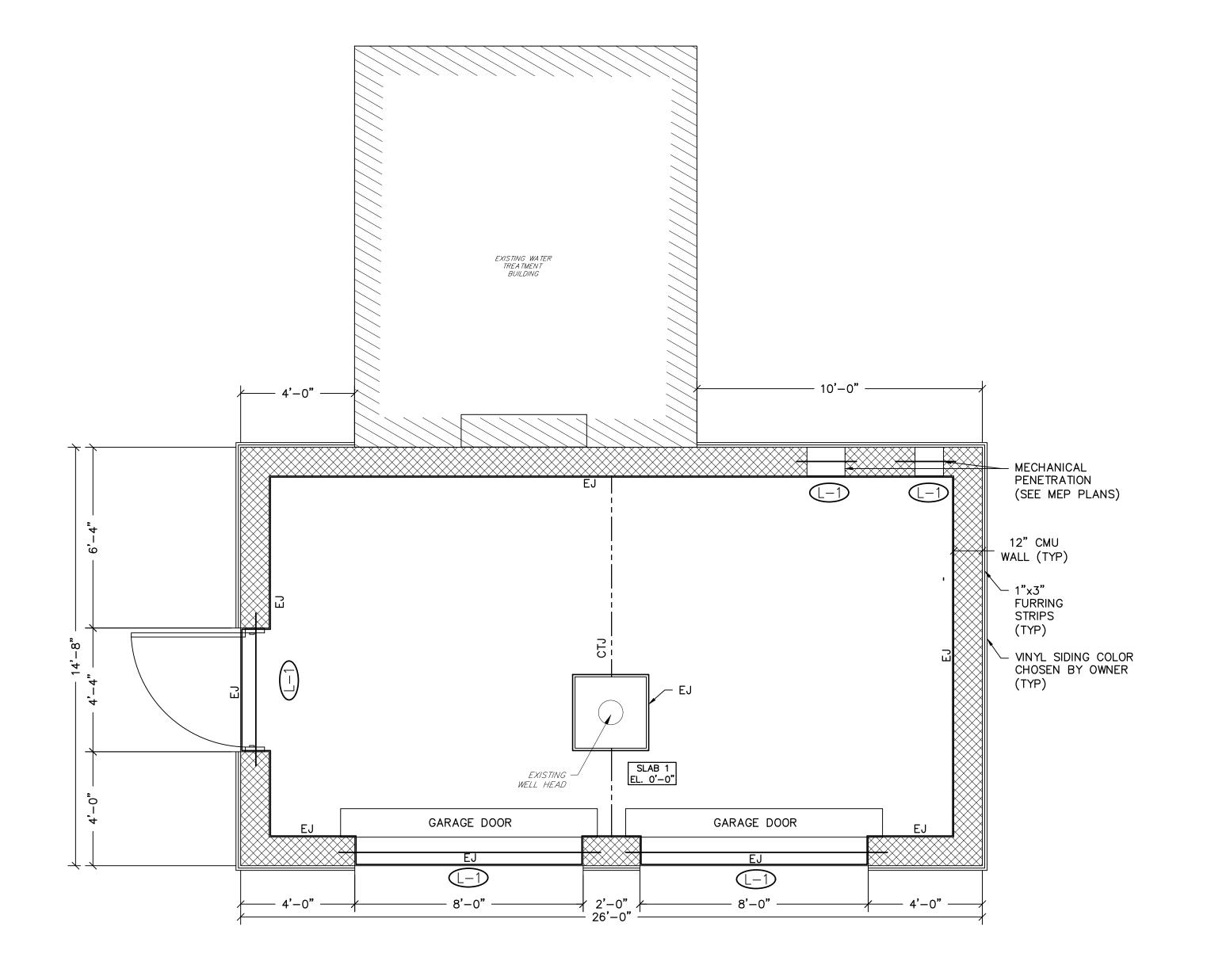
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WELL NO. 9 FOUNDATION FLOOR F

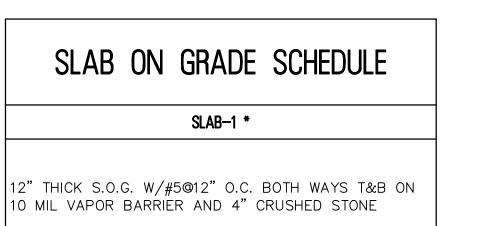
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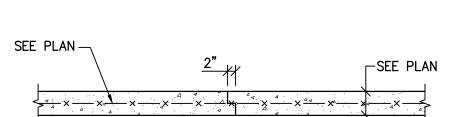




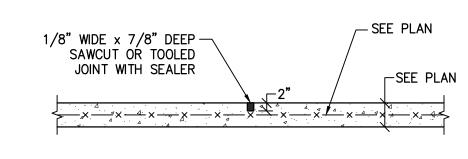


TOP SLAB & LINTEL PLAN SCALE: 3/8"=1'

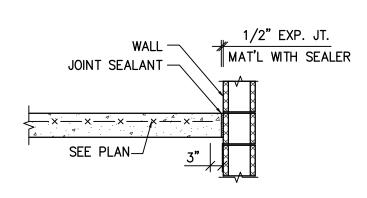




SLAB CONSTRUCTION JOINT



SLAB CONTROL JOINT



SLAB EXPANSION JOINT

LEGEND

EXPANSION JOINT= EJ CONTROL JOINT= CTJ CONSTRUCTION JOINT= CJ

0 16" 32"

3/8" = 1'-0"



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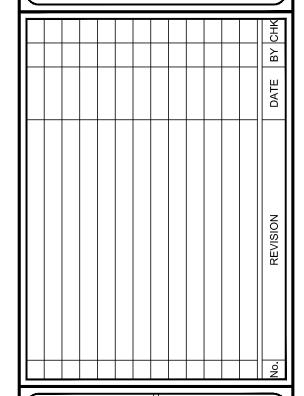
STEPHANIE A. CUTHBERT

NJ PROFESSIONAL ENGINEER LIC. No. 42136

DATE: 01.24.2025 NJ PROFESSIONAL ENGINEER LIC. No. 34559

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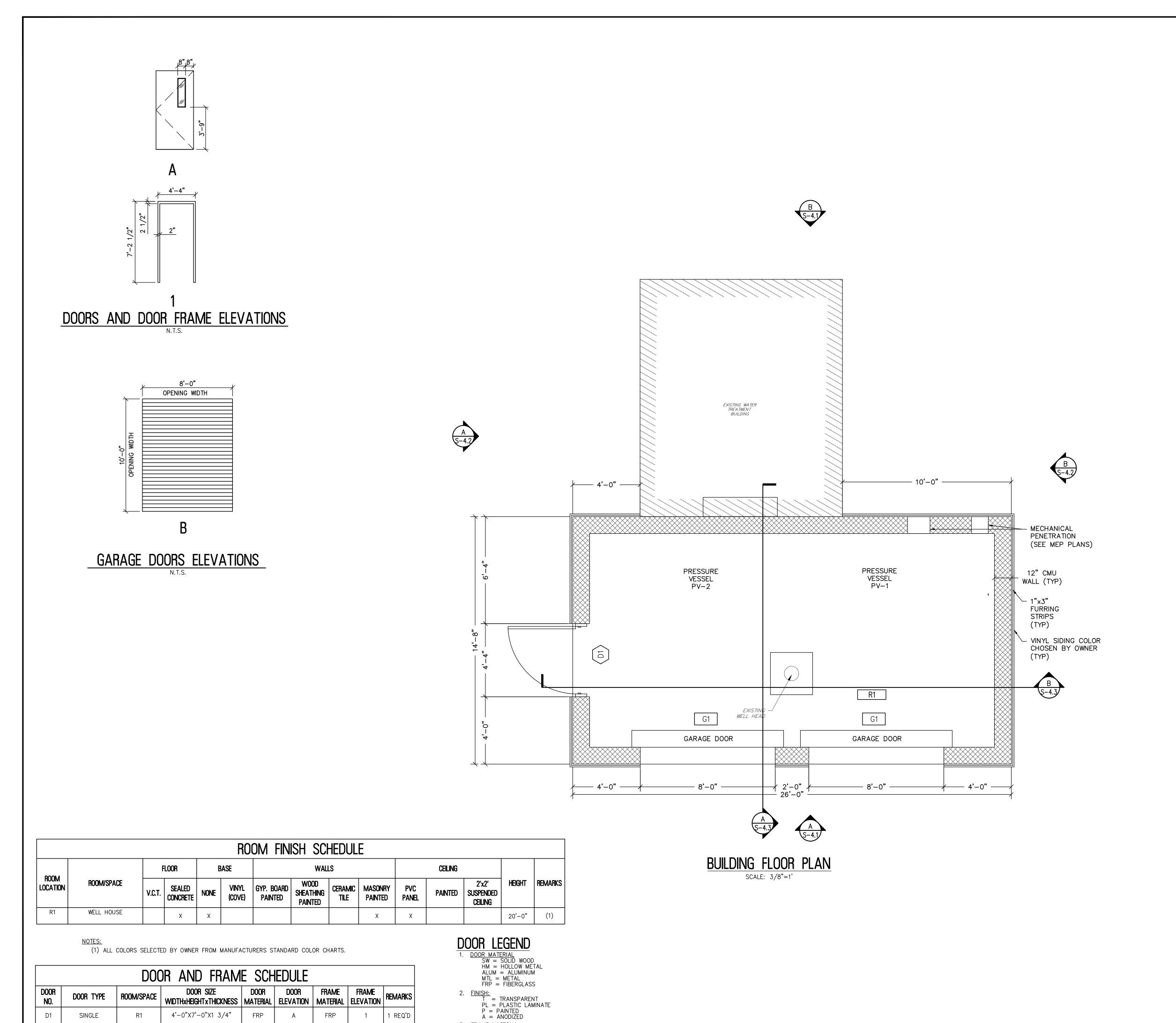
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PLAN NO. 9 LINTEL

WELL SLAB & T0P

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4'-0"X7'-0"X1 3/4"

8'-0"X10'-0"

FRP

ALUM

SINGLE

ROLL-UP

G1

1 REQ'D

2 REQ'D

3. FRAME MATERIAL:

HM = HOLLOW METAL

AL = ALUMINUM

FRP

ALUM

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VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS

DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM

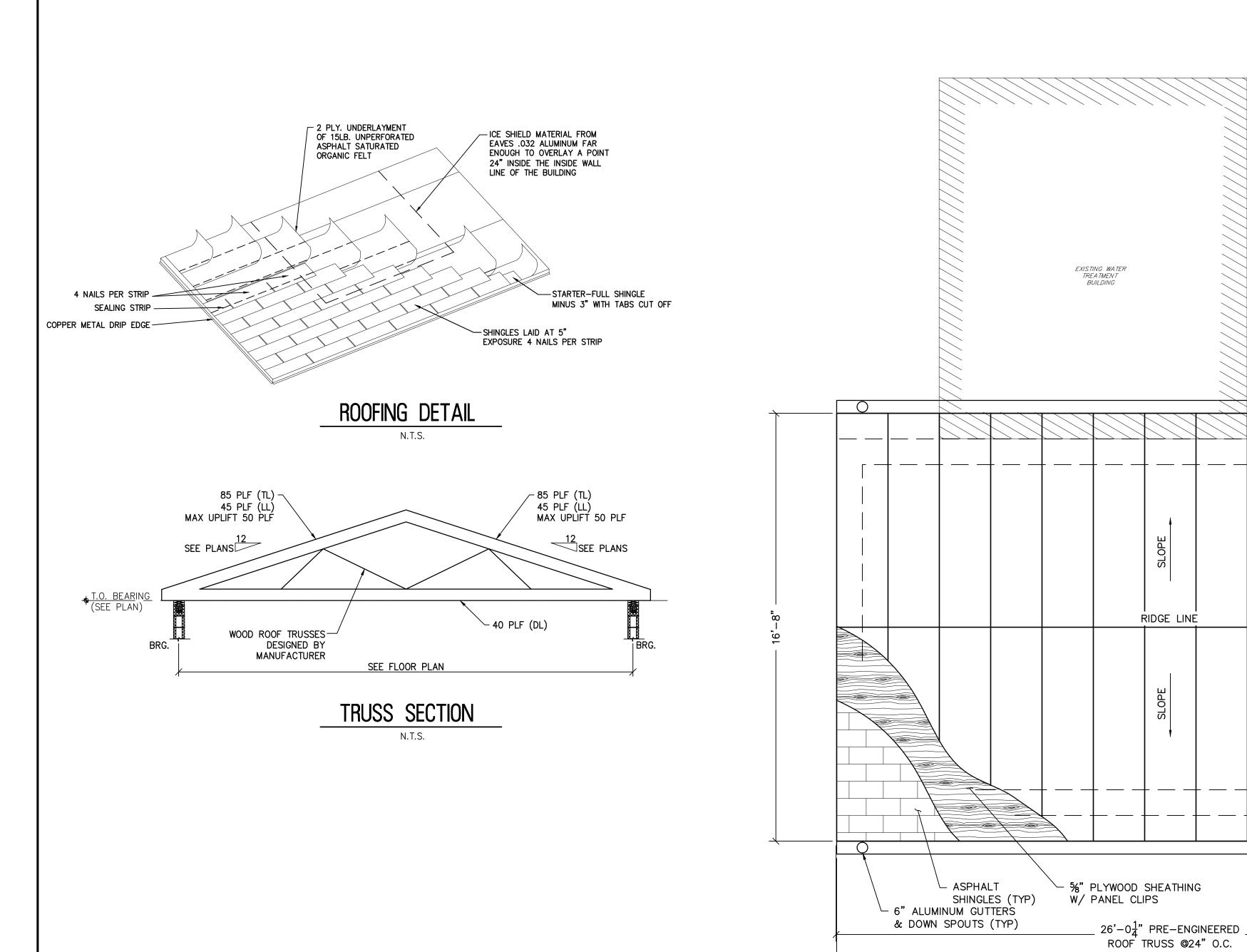
WELL NO. 9 BUILDING FLOOR PLAN

AQUA NEW JERSEY
WELL NO. 6 AND WELL NO. 9
PFAS TREATMENT IMPROVEMENTS

DRAWN BY: DESIGN BY: CHECKED BY: SCALE: K.C.R. AS NOTED J.G. R.C. SHEET No.: S-2.2(W9) JOB No.:

3908X023

0 16" 32" 3/8" = 1'-0"





1'-0" _ OVERHANG (TYP)



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VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR R E S U L T I N G T H E R E F R O M .

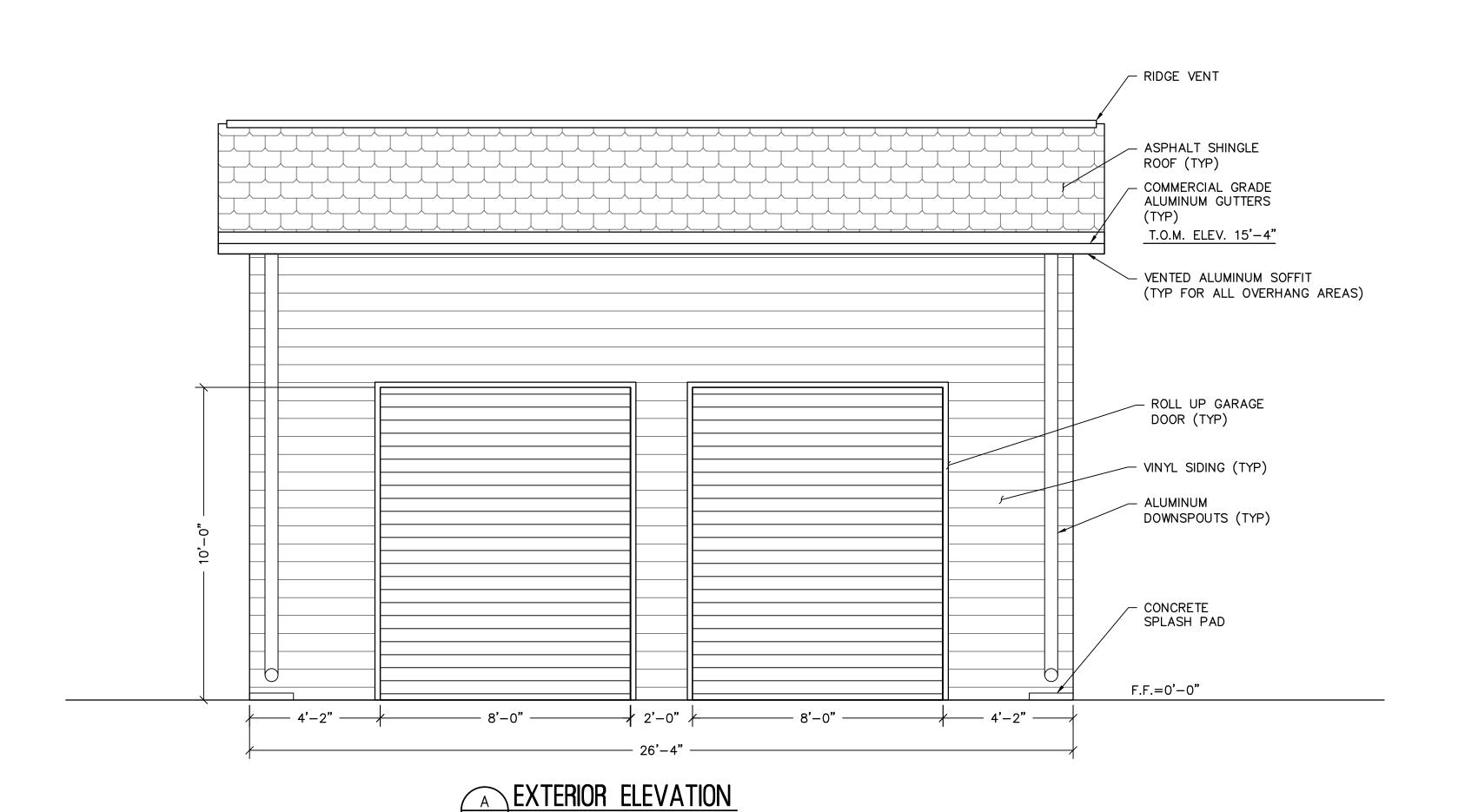
AQUA NEW JERSEY
WELL NO. 6 AND WELL NO. 9
PFAS TREATMENT IMPROVEMENTS WELL NO. 9 BUILDING ROOF PLAN

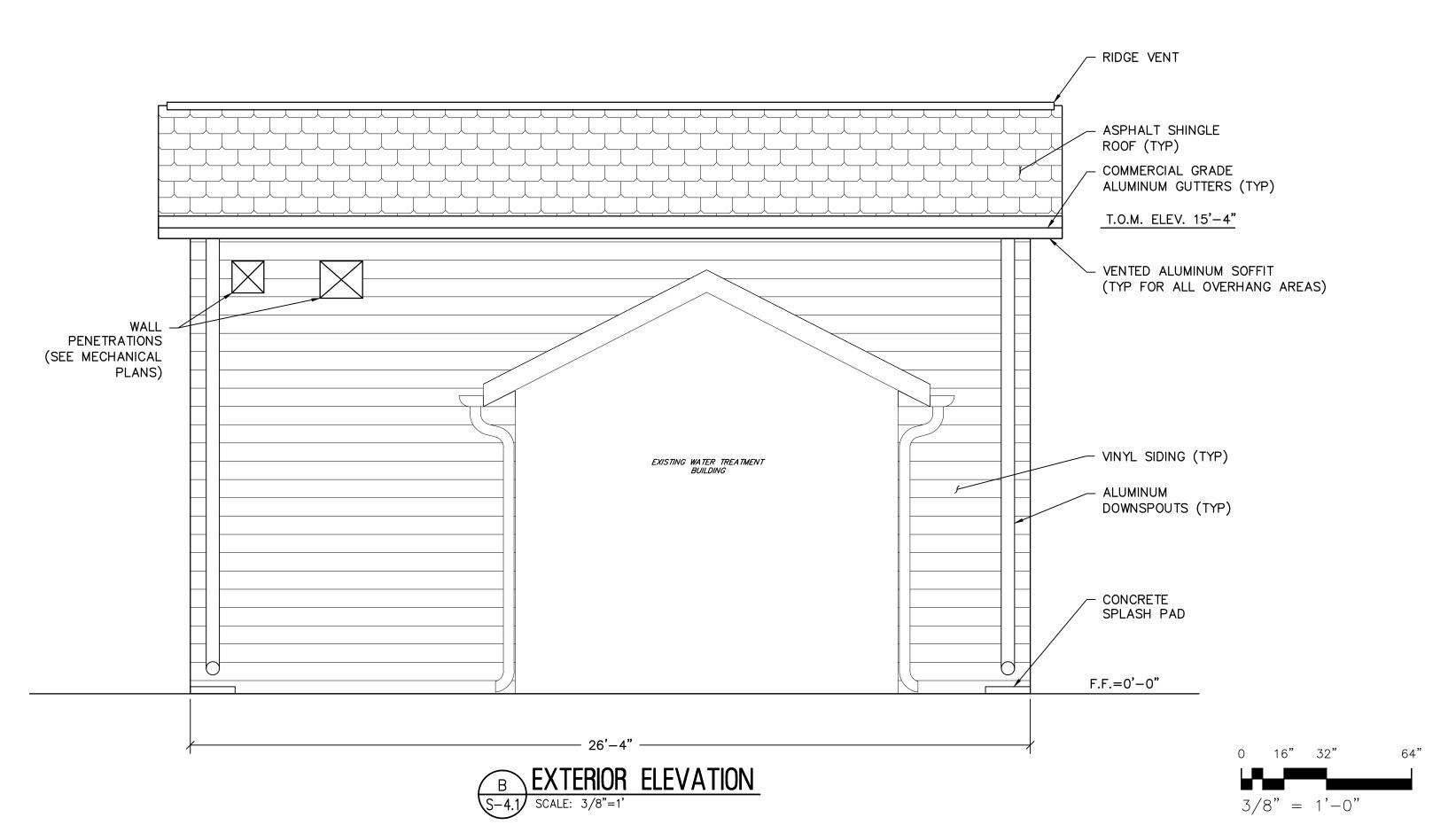
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 SCALE:

 J.G.
 R.C.
 K.C.R.
 AS NOTED
 SHEET No.: MAY 2024 S-3.1(W9) JOB No. : 3908X023

0 16" 32"

3/8" = 1'-0"







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mut C. Rivela

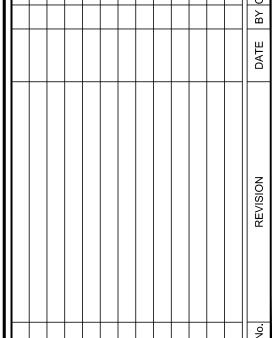
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KENNETH C. RESSLER

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WELL NO. 9
BUILDING ELEVATIONS
AQUA NEW JERSEY

AQUA NEW JERSEY
WELL NO. 6 AND WELL NO
PFAS TREATMENT IMPROVEN

DRAWN BY: DESIGN BY: CHECKED BY: SCALE:

J.G. R.C. K.C.R. AS NOTED

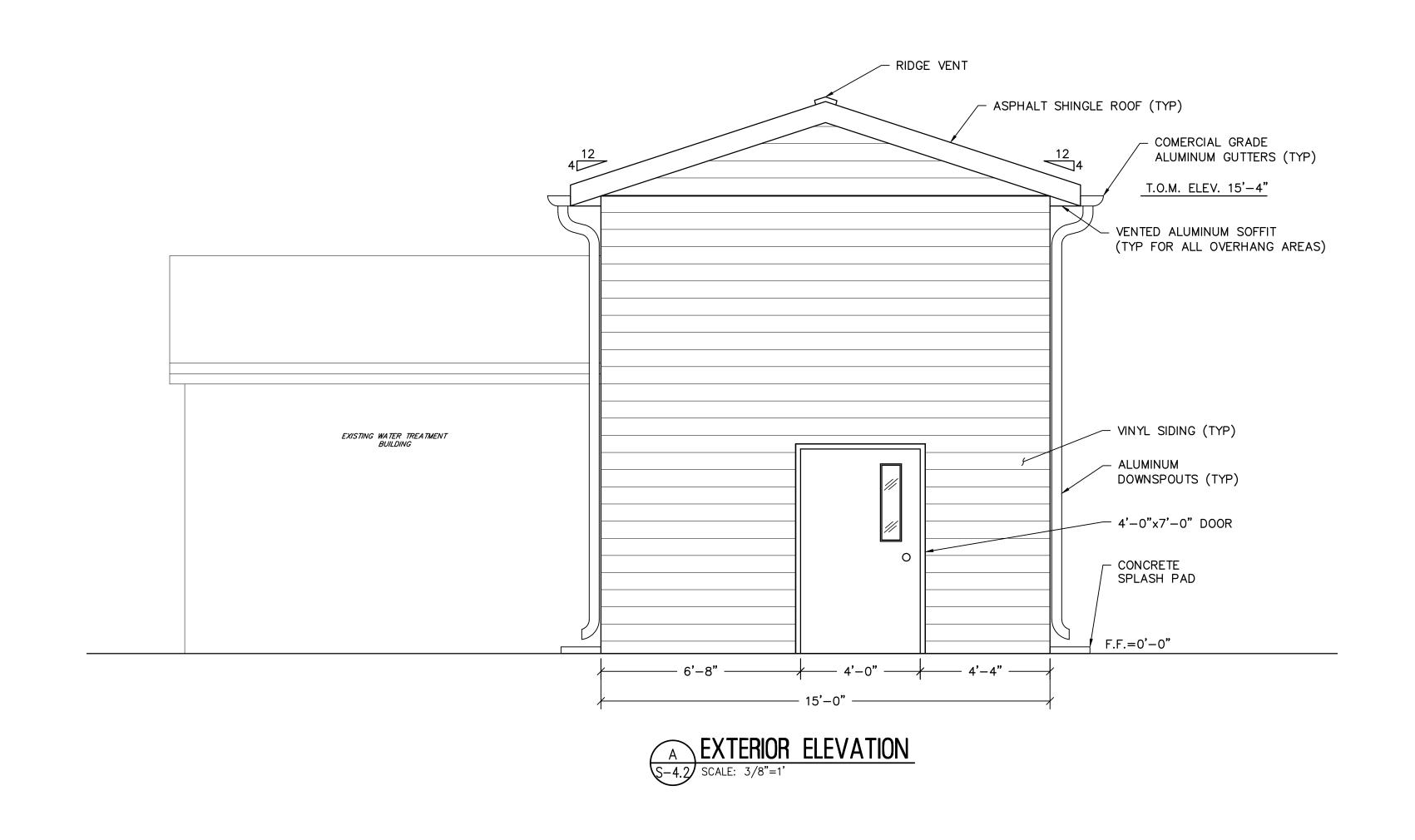
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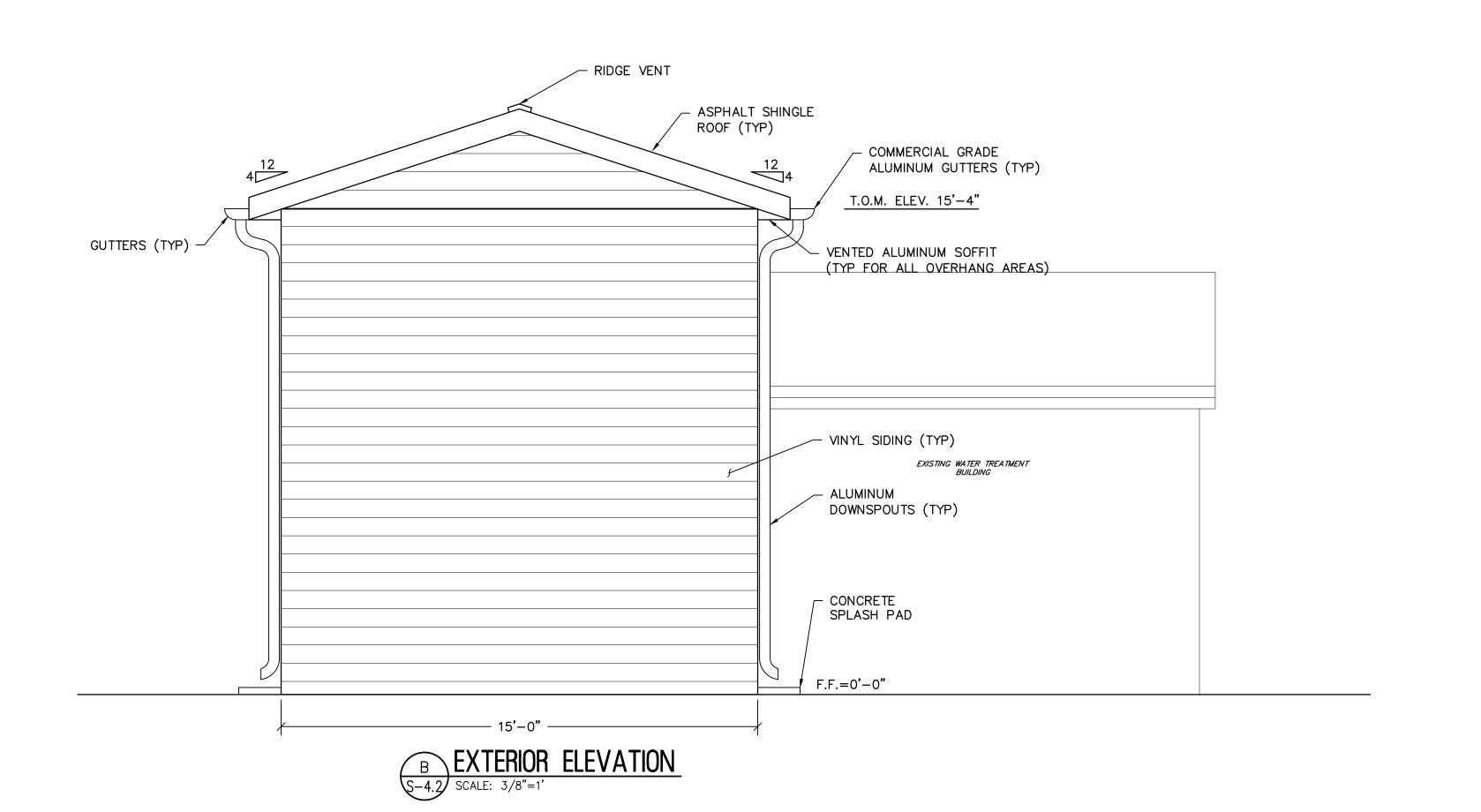
MAY 2024

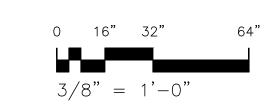
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S-4.1(W9)

EXTERIOR









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WELL NO. 9
BUILDING ELEVATIONS
AQUA NEW JERSEY

EXTERIOR

AQUA NEW JERSEY
WELL NO. 6 AND WELL NC
PFAS TREATMENT IMPROVEN

DRAWN BY: DESIGN BY: CHECKED BY: SCALE:

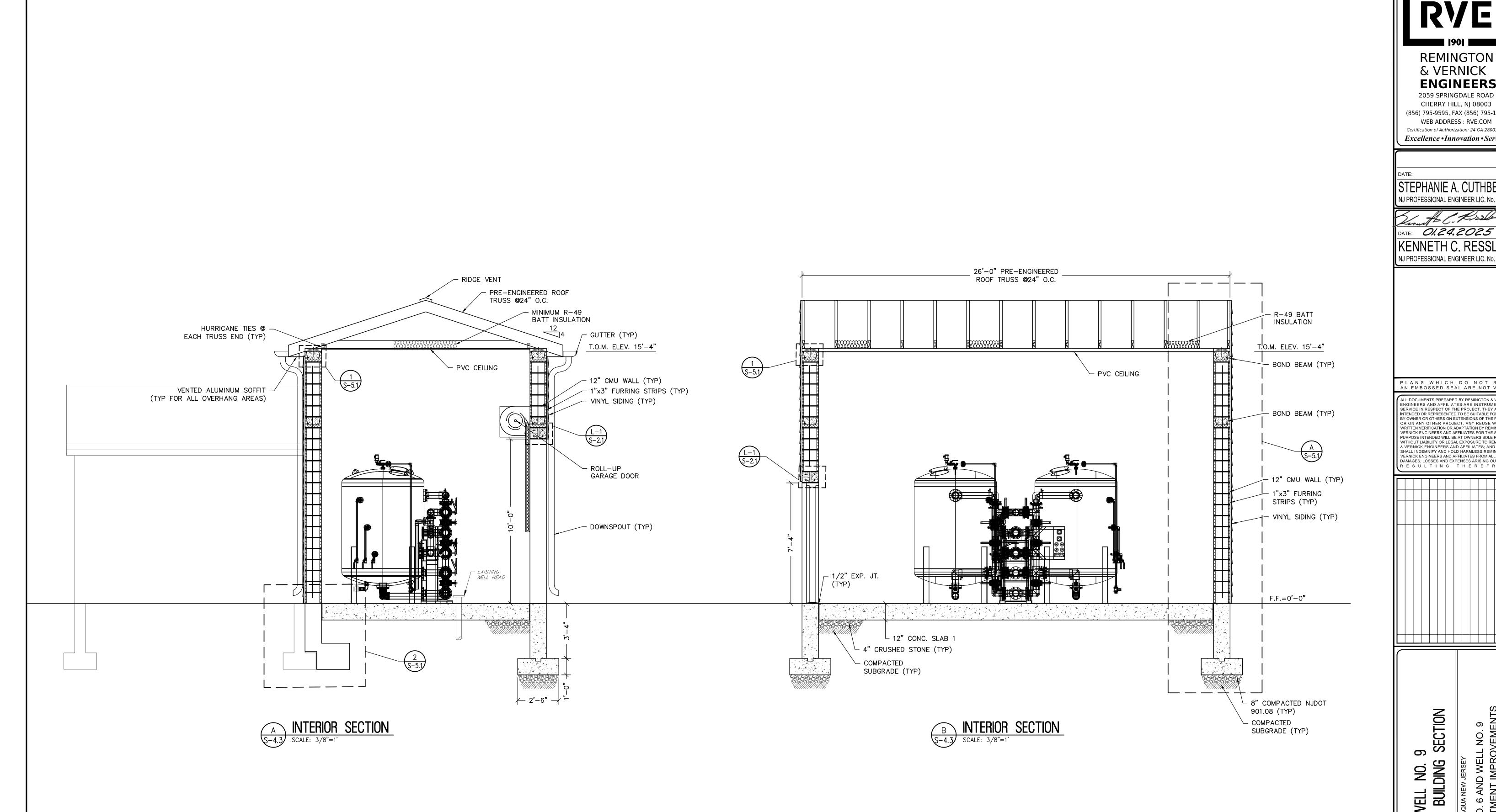
J.G. R.C. K.C.R. AS NOTED

DATE: SHEET No.:

MAY 2024

JOB No.:
3908X023

S-4.2(W9)





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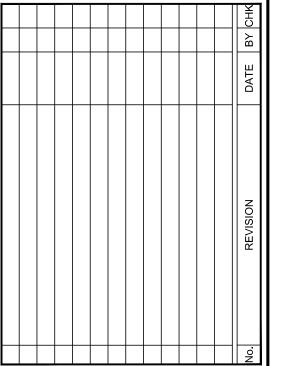
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9 SECTION

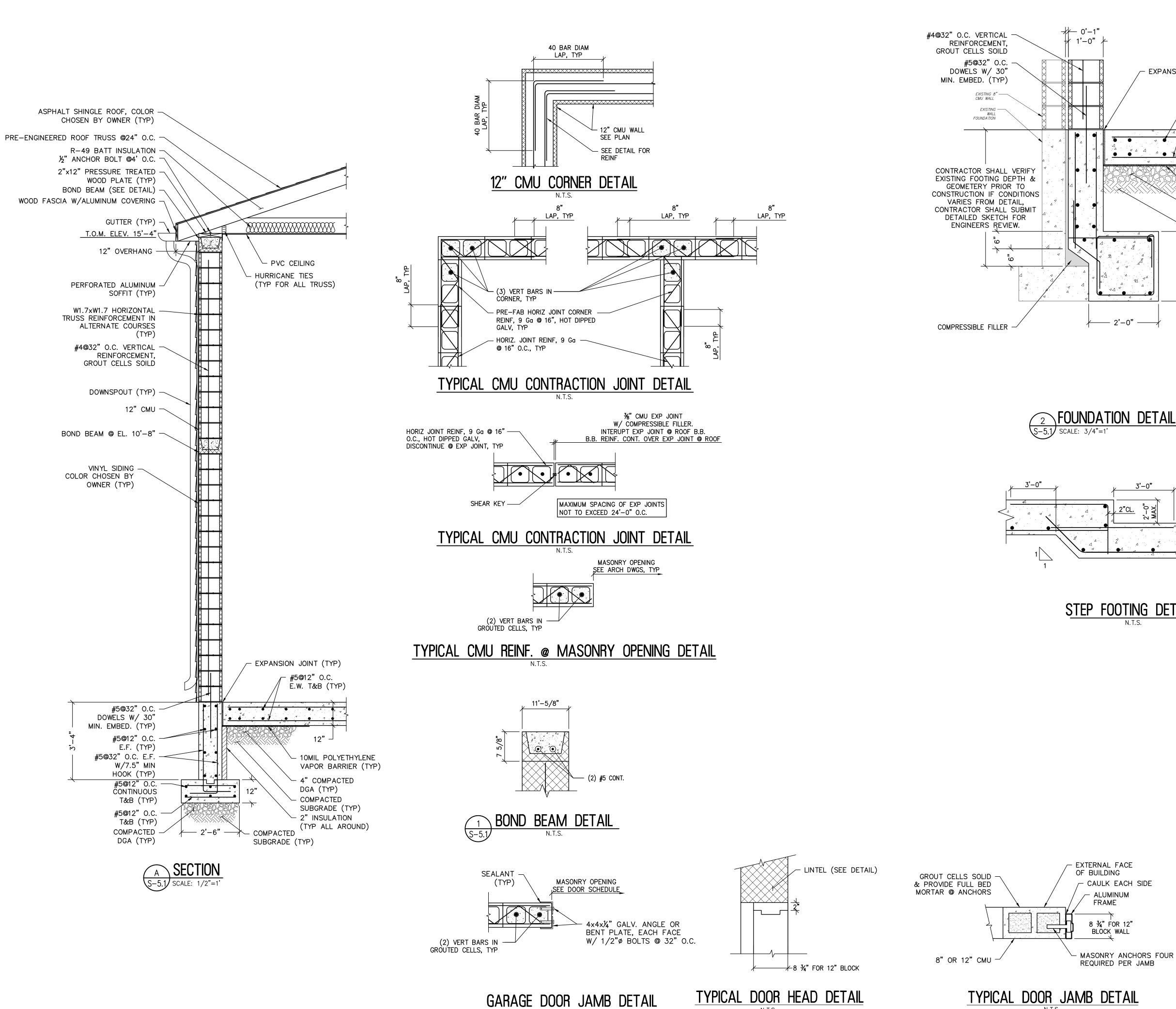
WELL NO. 9 INTERIOR BUILDING

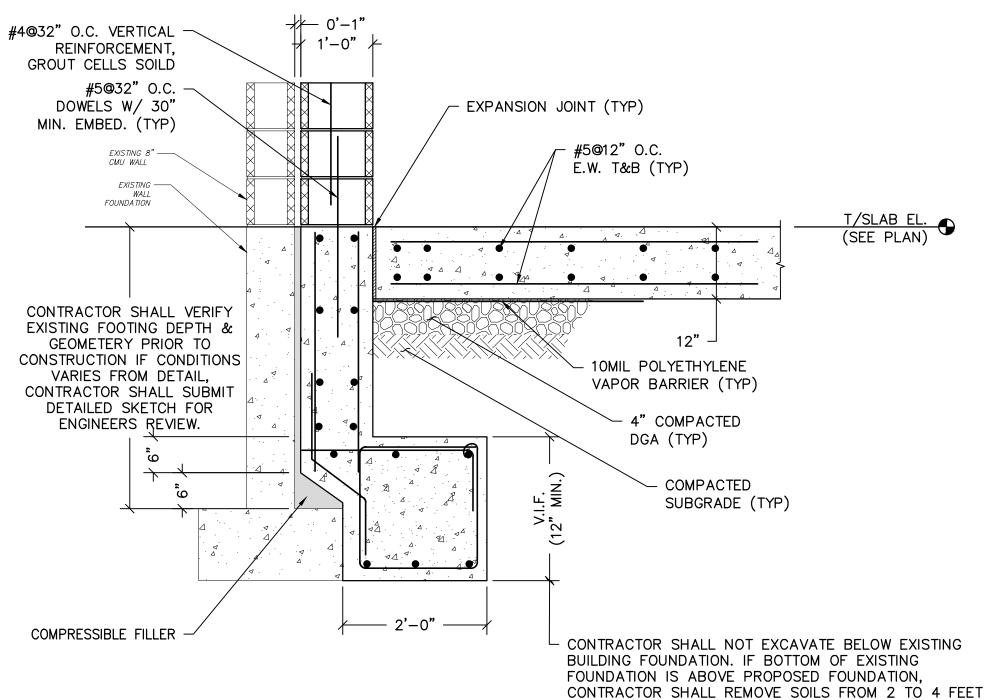
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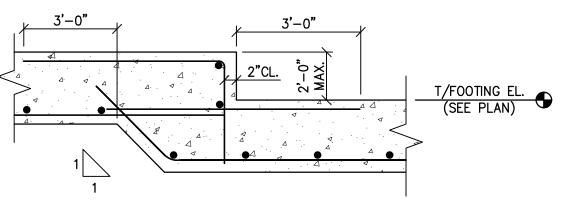
0 16" 32"

3/8" = 1'-0"

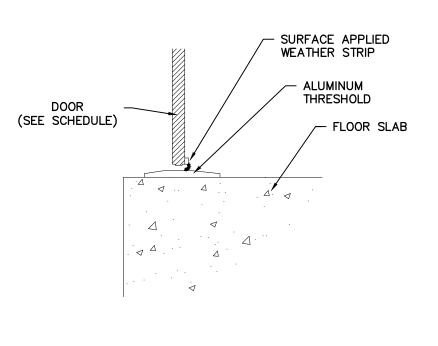








STEP FOOTING DETAILS



& REPLACE WITH DGA. PER GEOTECHNICAL REPORT. CONTRACTOR SHALL THEN STEP FOUNDATION PER

STRUCTURAL PLANS.

DOOR THRESHOLD DETAIL

REMINGTON

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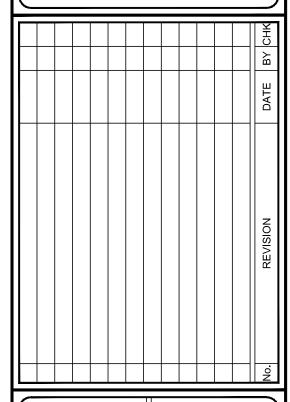
STEPHANIE A. CUTHBER

NJ PROFESSIONAL ENGINEER LIC. No. 42136

DATE: 01.24.2025 NJ PROFESSIONAL ENGINEER LIC. No. 34559

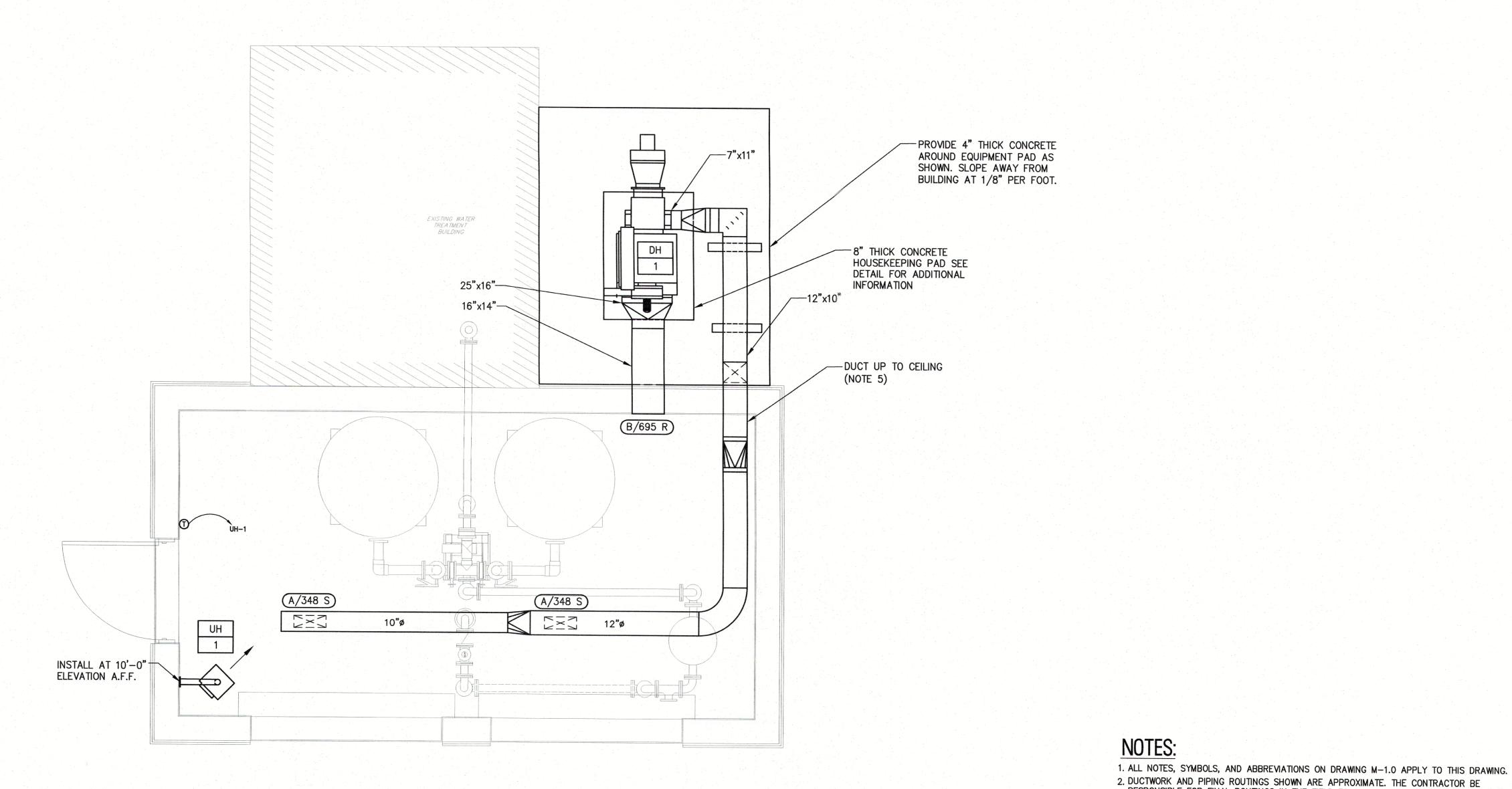
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. 9 DETAILS WELL NO. 6 AND WELL NO. 9 PFAS TREATMENT IMPROVEMENTS WELL NO SECTIONS AND

DRAWN BY: DESIGN BY: CHECKED BY: SCALE R.C. K.C.R. AS NOTED J.G. DATE: SHEET No.: S-5.1(W9) JOB No.: 3908X023







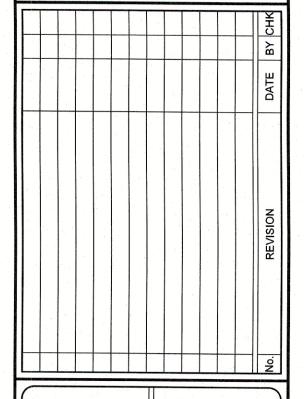
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NO.9 FLOOR

WELL I MECHANICAL F

RESPONSIBLE FOR FINAL ROUTINGS IN THE FIELD TO AVOID INTERFERENCES. CONTRACTOR TO COORDINATE DUCTWORK/ UNIT INSTALLATION WITH THE STRUCTURAL STEEL, ELECTRICAL CONDUIT, SYSTEMS WIRING/ CABLE, CLOCK SYSTEM, FIRE PROTECTION PIPING, PLUMBING PIPING (SANITARY DRAINAGE, ROOF DRAINAGE, DOMESTIC HOT/ COLD WATER AND GAS

PIPING) ETC. AS REQUIRED. ALL MODIFICATIONS MADE TO THE DUCTWORK OR PIPING TO RESOLVE INTERFERENCES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST

3. NOT ALL INLINE DEVICES (VALVES, DAMPERS, REDUCERS, ETC.) HAVE BEEN SHOWN ON THE PLANS FOR CLARITY, SEE PIPING DETAILS ON MECHANICAL DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE ALL INLINE DEVICES (VALVES, DAMPERS, REDUCERS, GAUGES, ETC.) AS REQUIRED TO COMPLETE THE INSTALLATION EVEN IF NOT SPECIFICALLY SHOWN ON THE

4. MAINTAIN MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS AS PER MANUFACTURER'S

5. PROVIDE DOUBLE WALL SPIRAL RECTANGULAR/ROUND DUCTWORK FOR ALL EXPOSED DUCTWORK. PAINT ALL EXPOSED DUCTWORK. COORDINATE FINAL PAINT COLOR WITH OWNER.

TO THE OWNER.

PLANS OR DETAILS.

RECOMMENDATIONS AND ALL APPLICABLE CODES.

WELL NO. 6 & \
S TREATMENT!

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