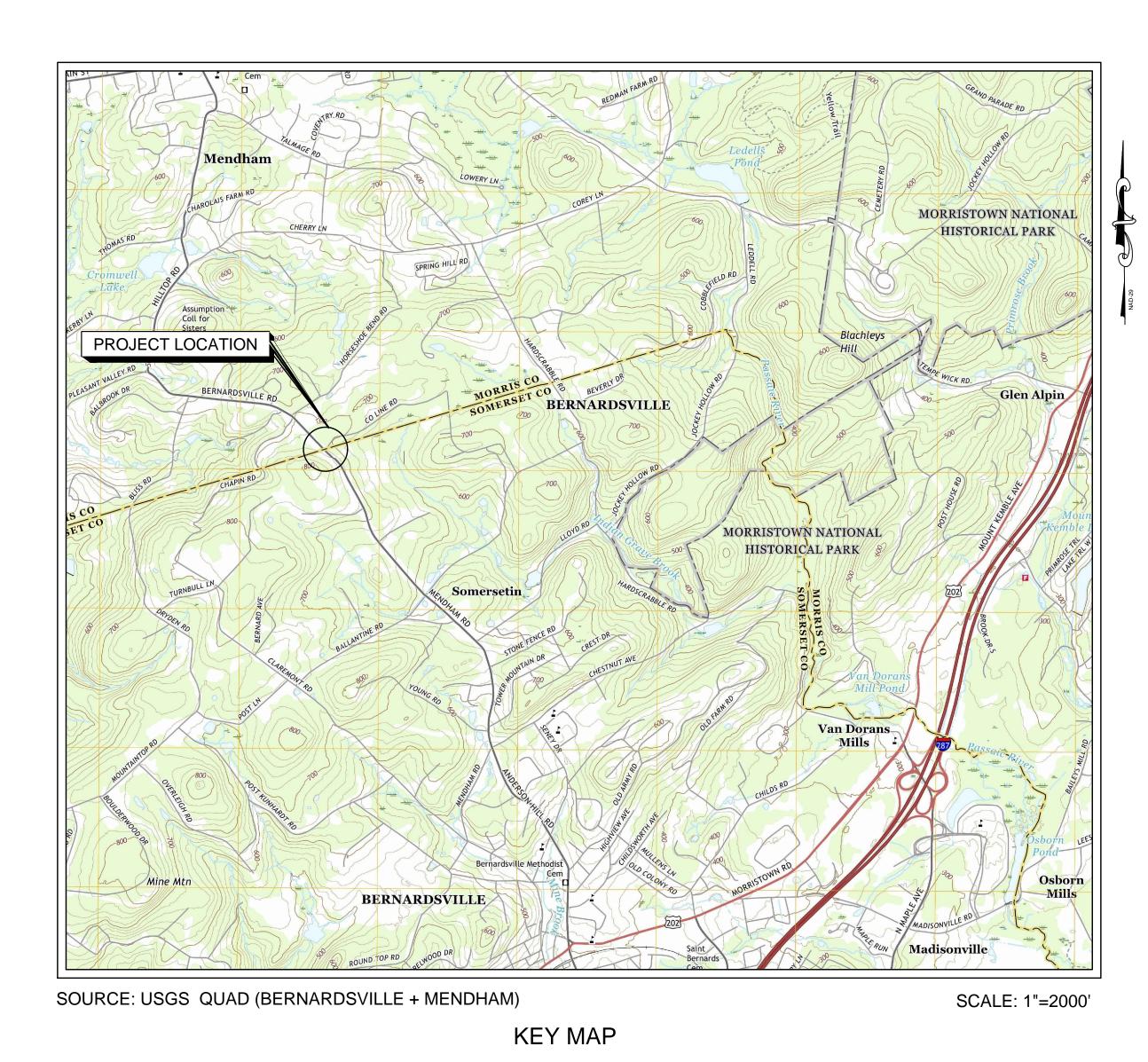
FENWICK TANK REPLACEMENT PROJECT NEW JERSEY AMERICAN WATER

BOROUGH OF BERNARDSVILLE, SOMERSET COUNTY, NJ

	Lot <u>5</u> Block <u>5</u>	7one R-1-10		
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	Applicant New Jersey Amo			
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	5			
	(Owner)	(Address)	(Phone No.)	(Date)
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3.	Thereby certify that I have p	orepared the Site Plan an	d that all dimensions and inform	iation are correct.
	(Name)	(Address)	(Title	and License No.)
	(Name)	(, (adi ess)	(True	and Elective No.,
4.	Lhavo reviewed this Site Pla	an and cortify that it moo	ts all codes and ordinances unde	or my jurisdiction
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	(Date)	(Bo	rough Engineer)	
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	To be signed before issuance	e of a building permit: I l		ed improvements have been
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INDEX OF DRAWINGS

SHEET C00: SITE EXISTING CONDITIONS & DEMOLITION PLAN

SHEET C01: TANK SITE PLAN SHEET C01A: SITE PLAN DETAILS SHEET C02: LANDSCAPING PLAN

SHEET C03: CONSTRUCTION STAGING PLAN

SHEET D01-D02: DETAIL SHEETS

SHEET SC01-SC02: SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS

BOROUGH OF BERNARDSVILLE
Block and Lot Listing

Identification		Name Street Address City, State Property Location	Zip	
Block: Lot: Qual:	5 3	SAVAS, PAUL & MARYBETH 35 EAST 62ND STREET NEW YORK, NY 440 MENDHAM RD.	10065	
Block: Lot: Qual:	5 3.06	SAVAS, PAUL & MARYBETH 35 EAST 62ND STREET NEW YORK, NY MENDHAM ROAD	10065	
Block: Lot: Qual:	5 4	LIU, AILI TRUSTEE 400 MENDHAM ROAD BERNARDSVILLE, NJ 400 MENDHAM RD.	07924	
Block: Lot: Qual:	7 1.01	MAIO, JOSEPH A. & PATRICIA 1 COUNTY LINE RD. MENDHAM, NJ MENDHAM RD.	07945	

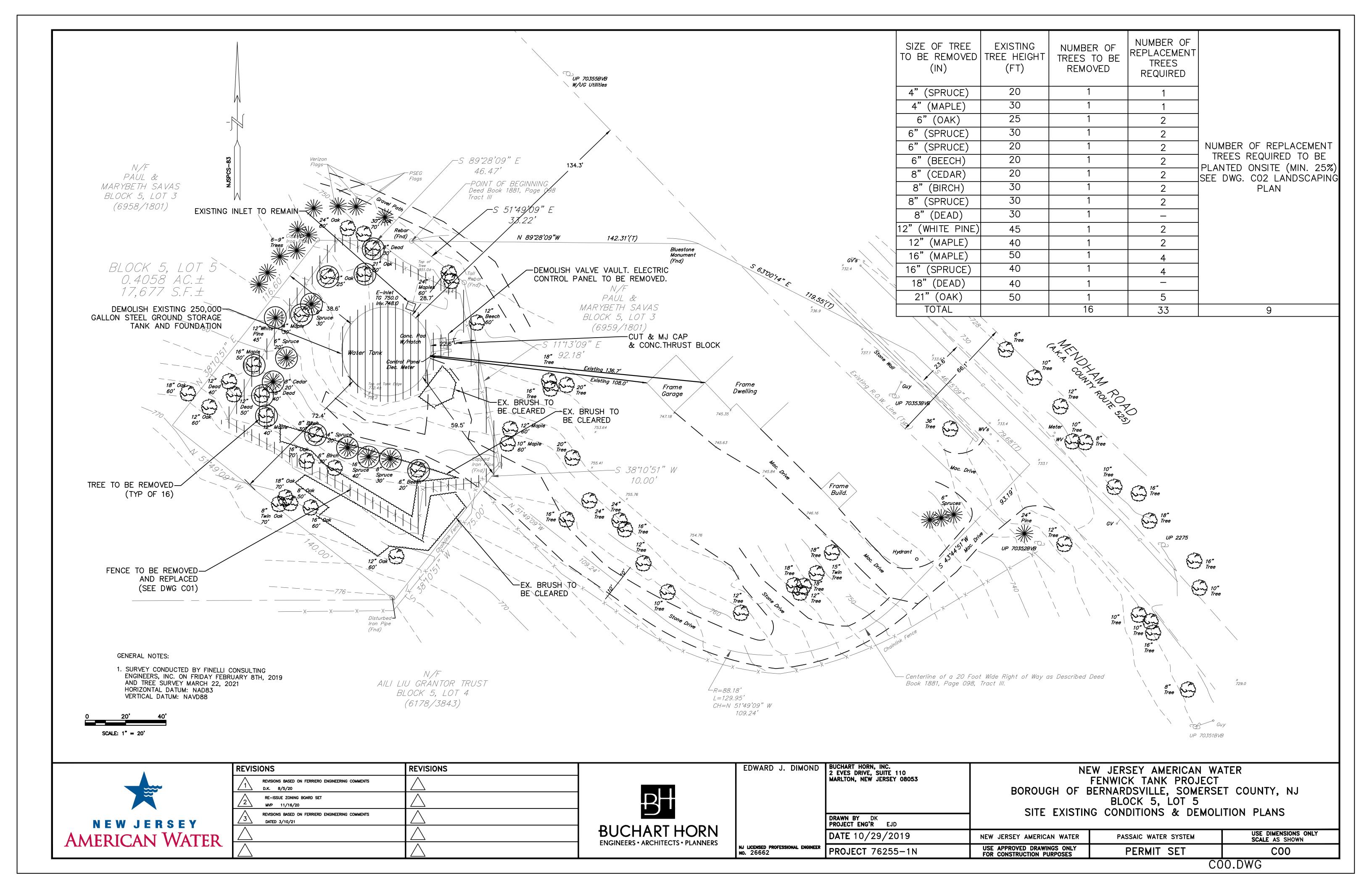


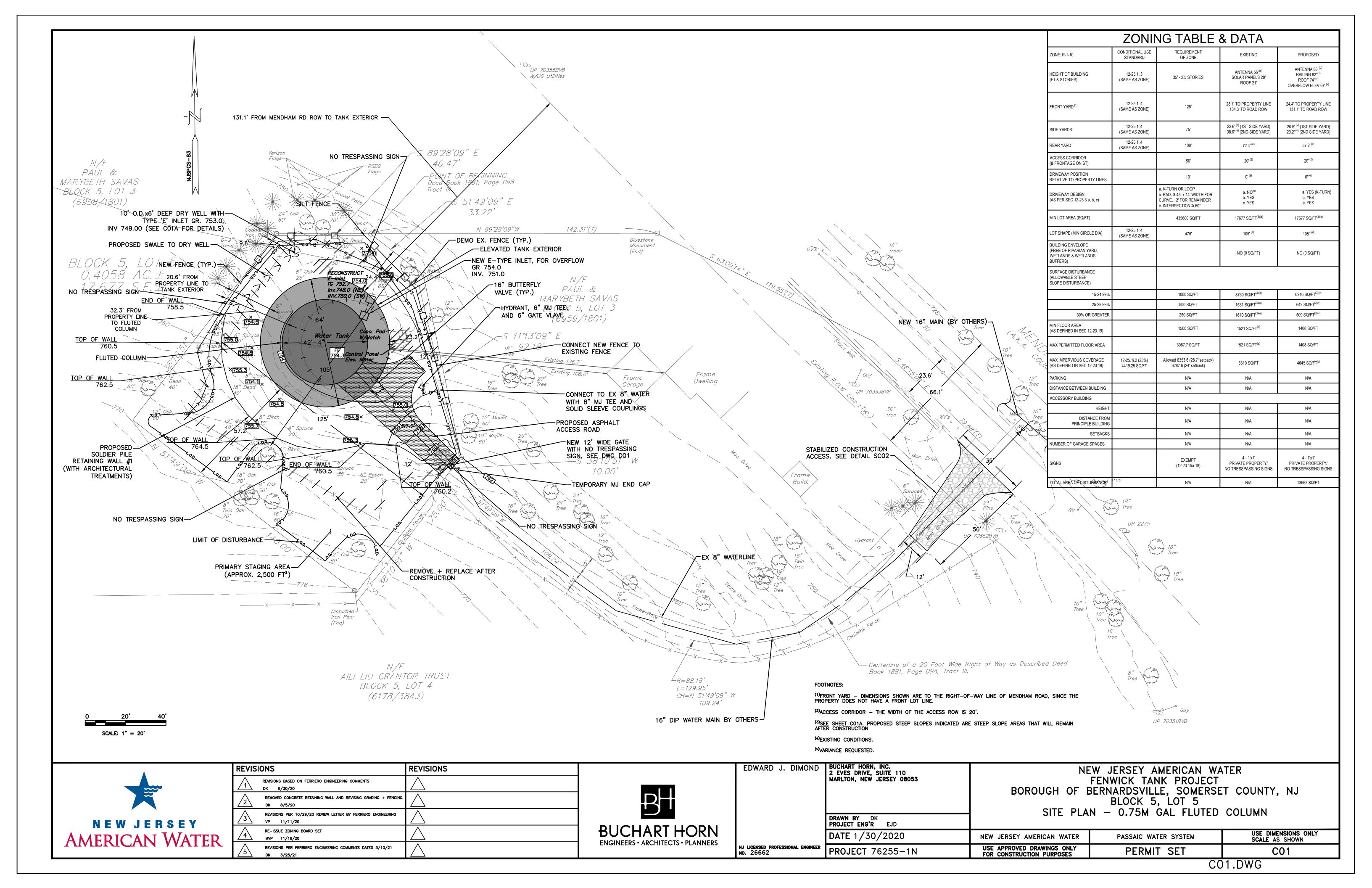
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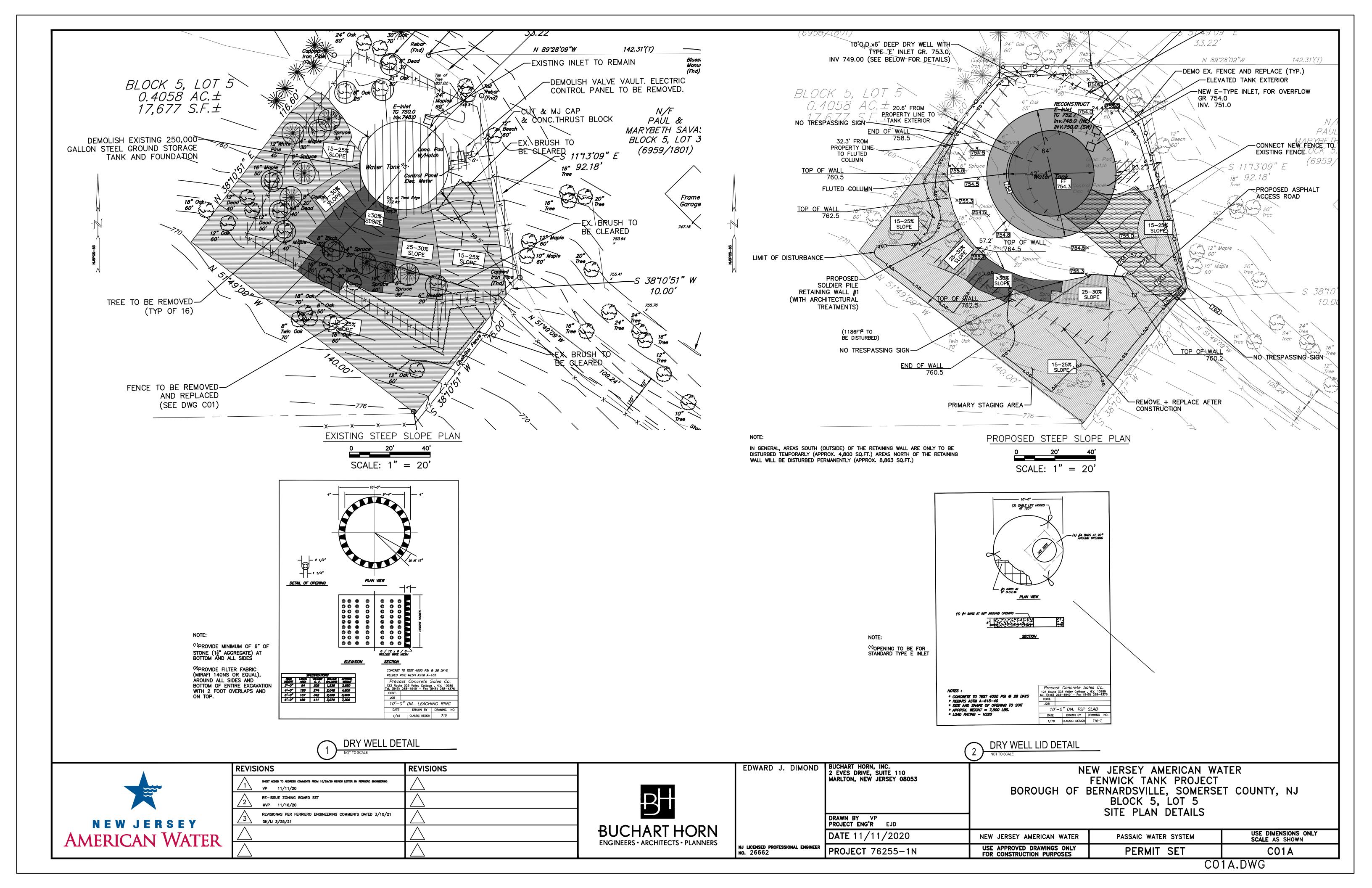
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PROFESSIONAL ENGINEER

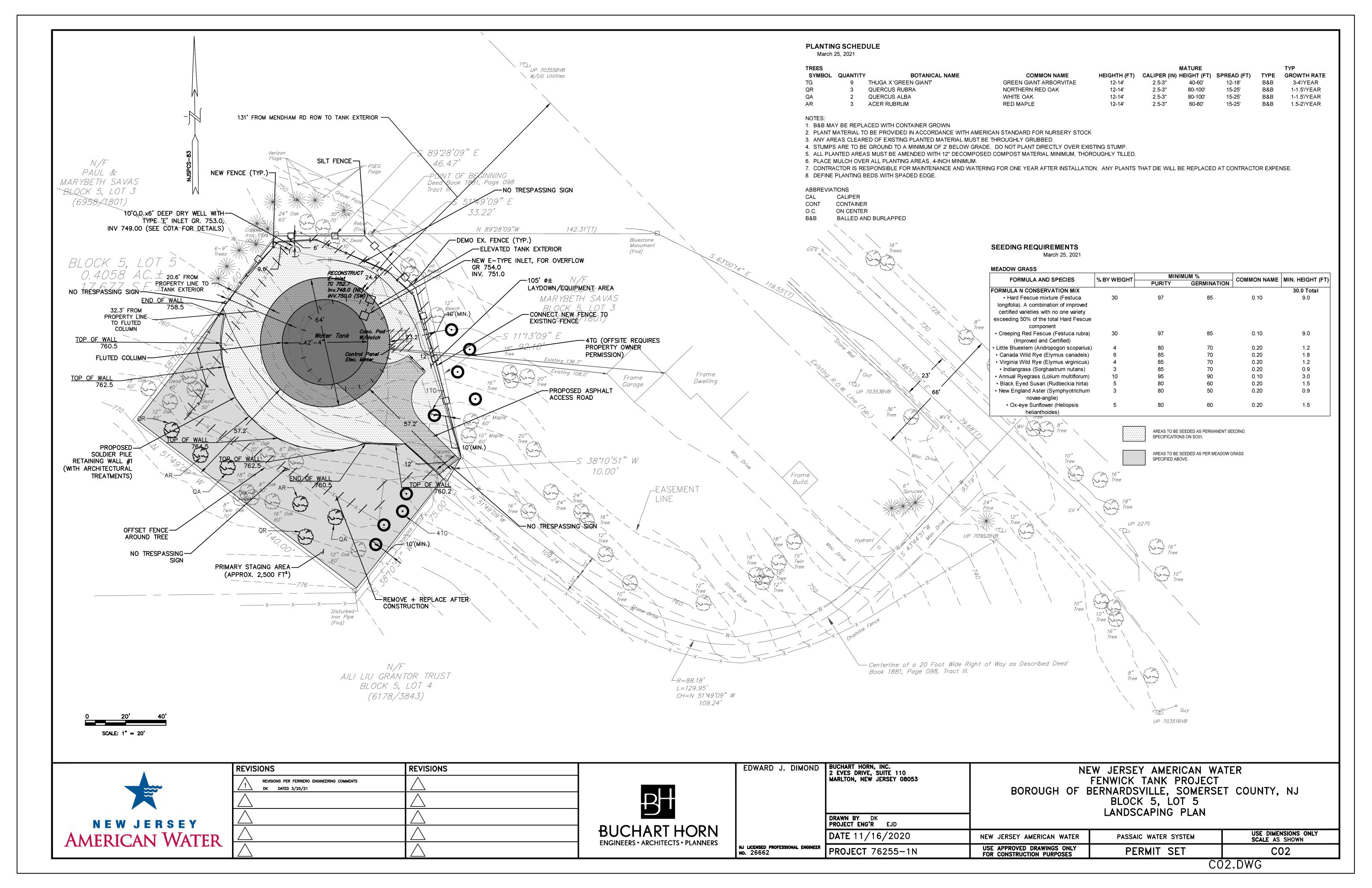
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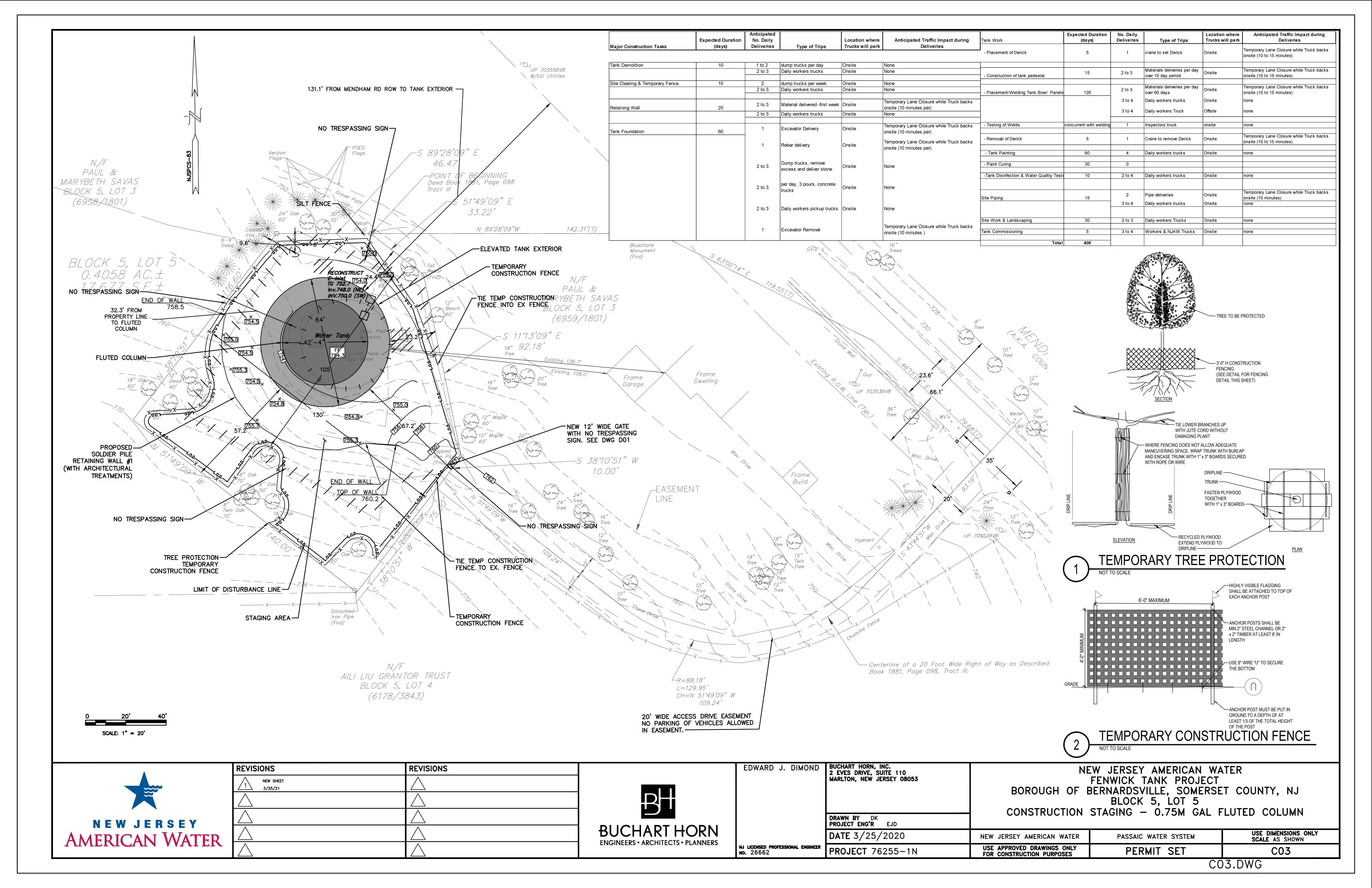


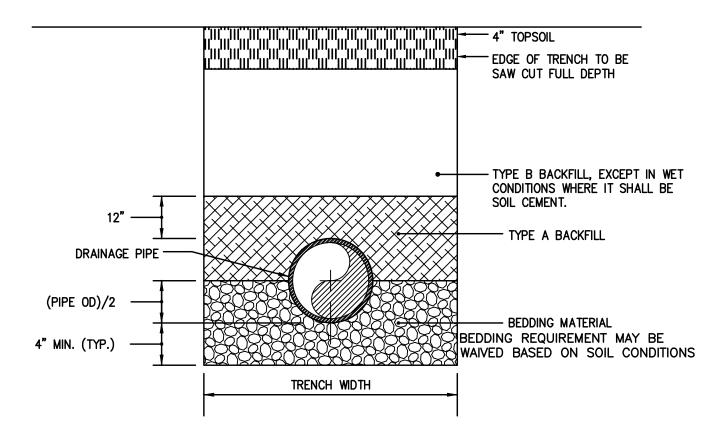




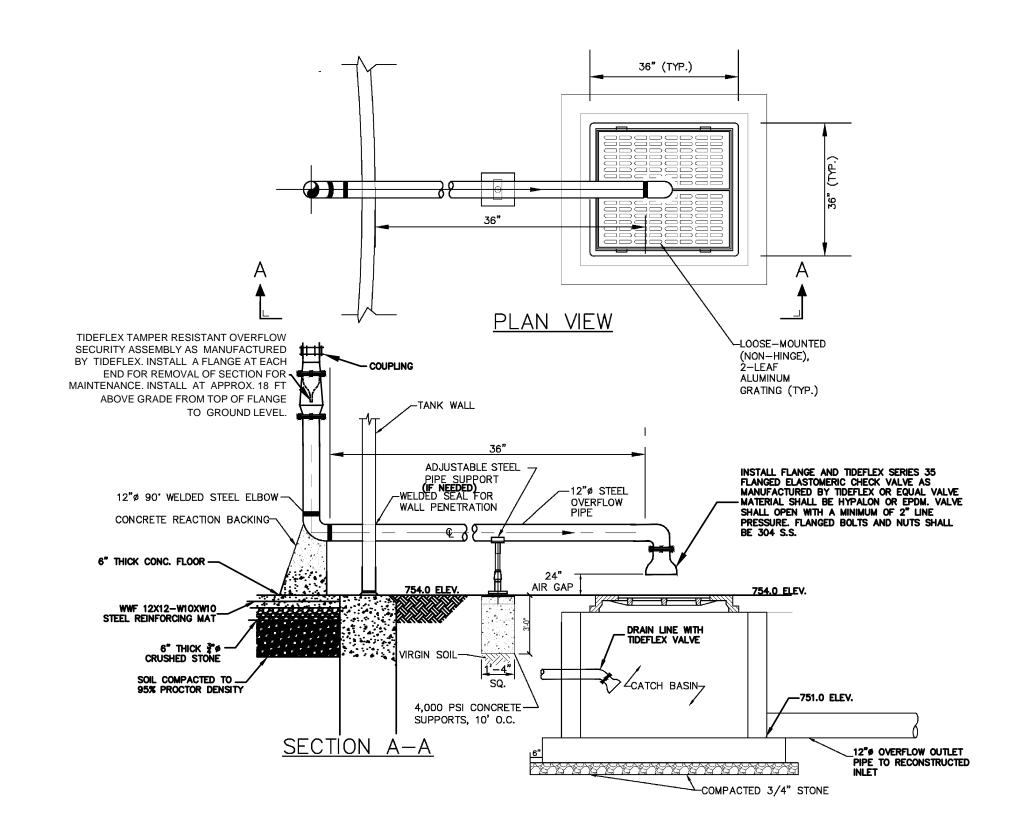




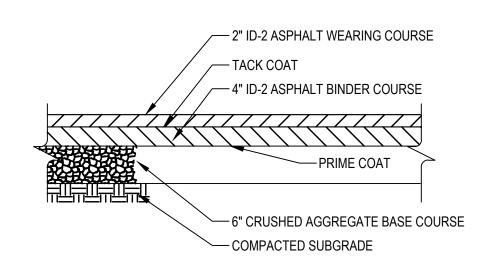




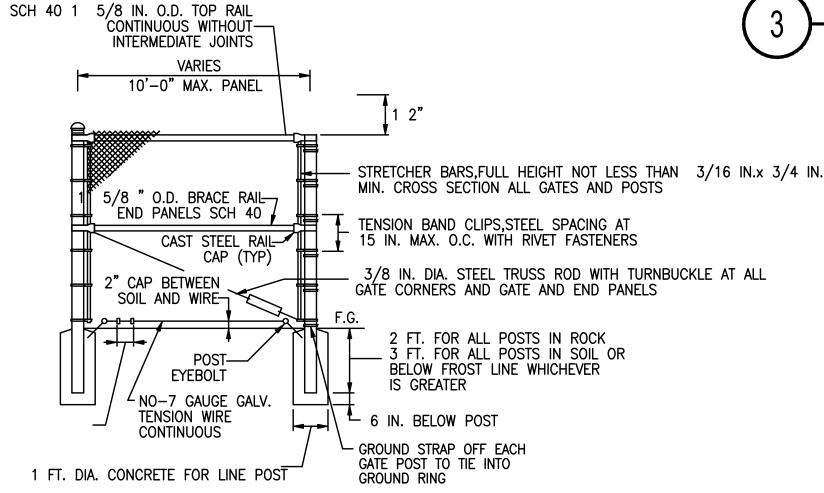
TRENCH RESTORATION & FINAL BACKFILL



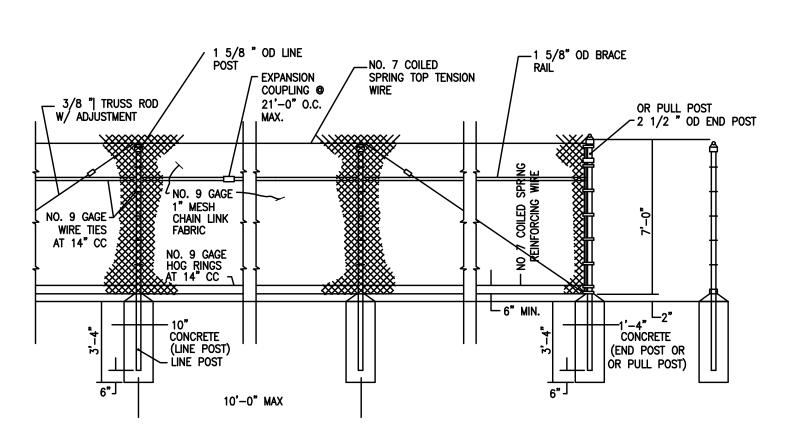
TANK OVERFLOW INLET



ASPHALT DRIVEWAY PAVING DETAIL







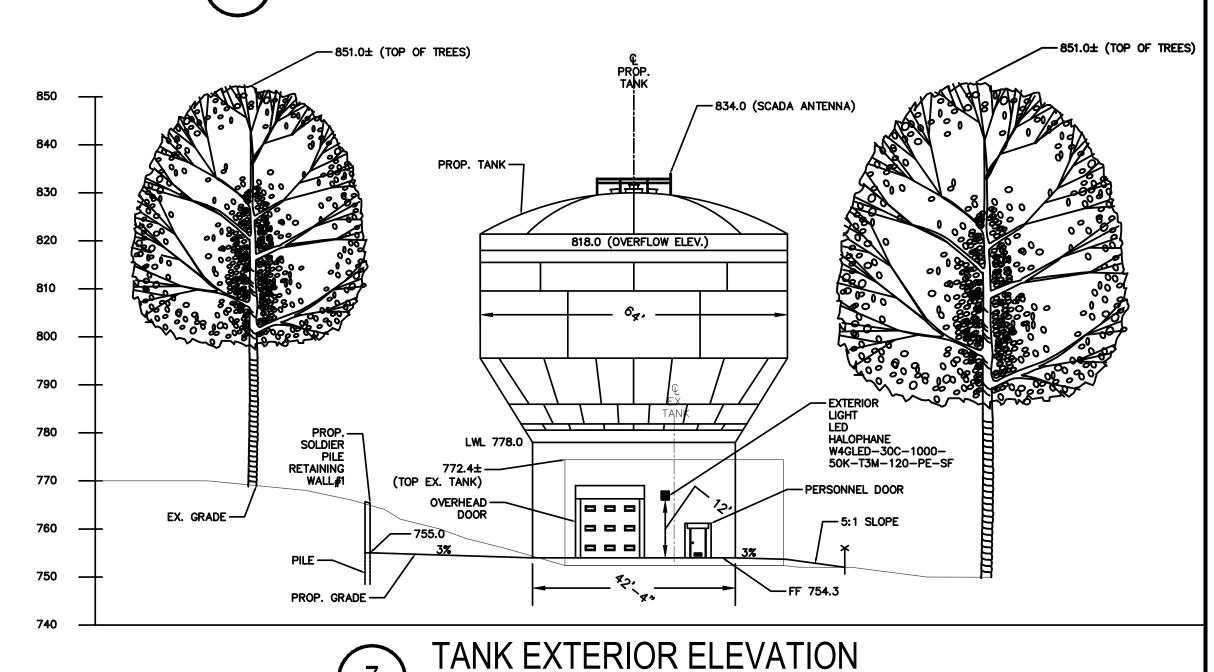
CHAIN LINK VINYL COVERED FABRIC FENCE



NO TRESPASSING SIGN DETAIL

NEW JERSEY AMERICAN WATER

USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES



NEW JERSEY AMERICAN WATER

REVISIONS REVISIONS REVISIONS BASED ON FERRIERO ENGINEERING COMMENTS D.K. 6/30/20 MOVED EXT ELEV DETAIL TO THIS SHEE MVP 11/16/20 NO REVISIONS RE-ISSUED DK 3/25/21

BUCHART HORN

EDWARD J. DIMOND **DATE** 03/07/2019 NJ LICENSED PROFESSIONAL ENGINEER NO. 26662 PROJECT 76255-1N

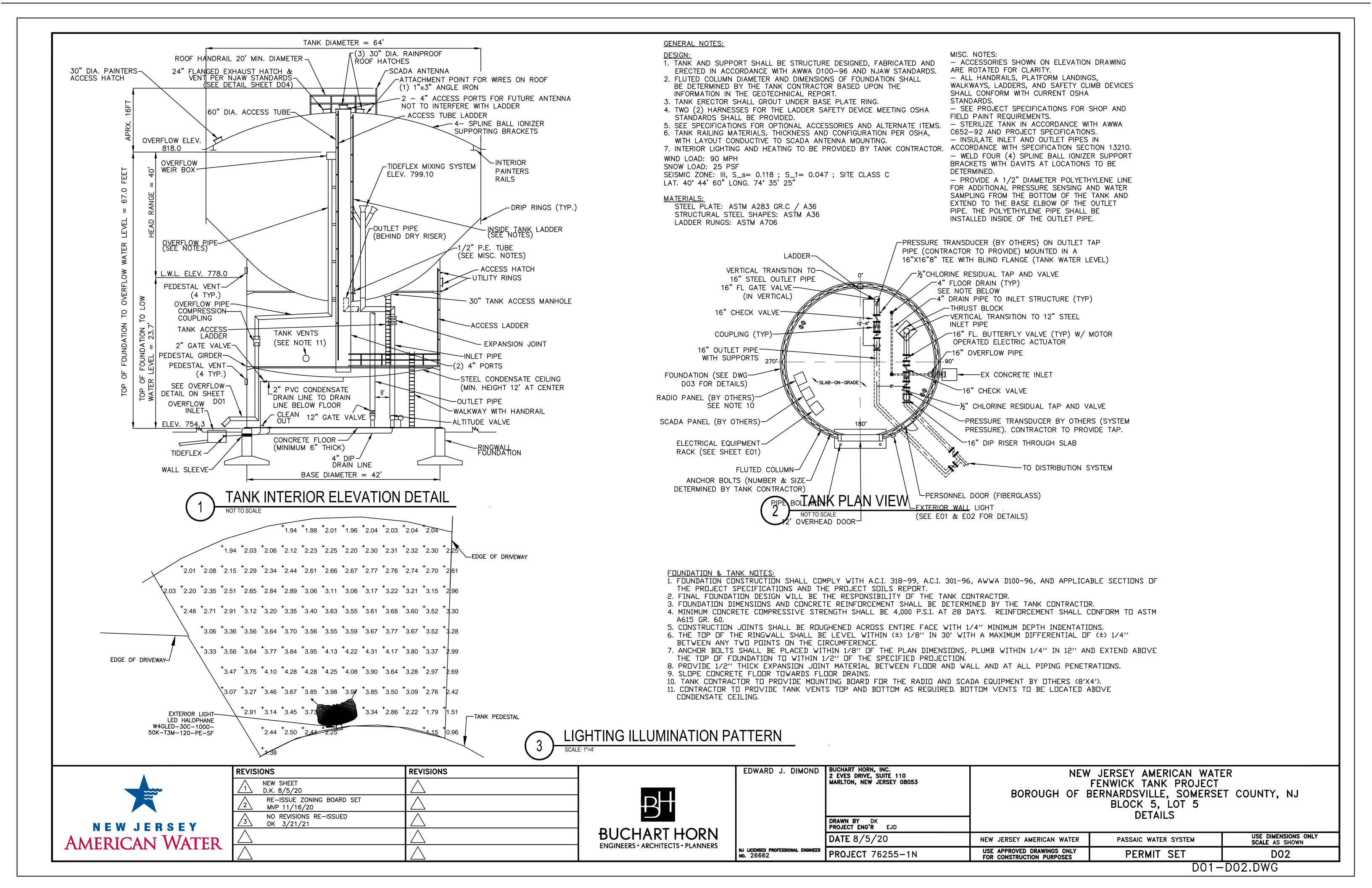
BUCHART HORN, INC. 2 EVES DRIVE, SUITE 110 MARLTON, NEW JERSEY 08053 DRAWN BY DK PROJECT ENG'R EJD

NEW JERSEY AMERICAN WATER FENWICK TANK PROJECT
BOROUGH OF BERNARDSVILLE, SOMERSET COUNTY, NJ
BLOCK 5, LOT 5
DETAILS

PASSAIC WATER SYSTEM

PERMIT SET D01-D02.DWG

USE DIMENSIONS ONLY SCALE AS SHOWN



STANDARDS FOR DUST CONTROL

DEFINITION - THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS

PURPOSE - TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

WHERE APPLICABLE - THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON- AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT, CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON ANY RESTRICTIONS.

PLANNING CRITERIA - THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY (P. 5-1)

VEGETATIVE COVER - SEE STANDARD FOR TEMPORARY VEGETATIVE COVER (P. 7-1) PERMANENT VEGETATIVE COVER (P. 4-1), AND PERMANENT

STABILIZATION WITH SOD (P. 6-1)

SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS), KEEP TRAFFIC

TIFF THESE AREAS.			
arr mese mensi	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM)-SPRAY ON POLYACRYLAMIDE (PAM)-DRY SPREAD			DITIVE TO SEDIMENT PRECIPITATE SUSPENDED
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1,200

TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS - SOLID BOARDS FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.

STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

GENERAL NOTES: IN ALL AREAS WHERE THE WORK IS DUTSIDE OF PAVED RDADS, THE CONTRACTOR SHALL INSTALL AND MAINTAIN APPROPRIATE SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE DETAILS ON THE DRAWINGS, REGARDLESS OF WHETHER OR NOT THE LOCATION OF SUCH MEASURES ARE SPECIFICALLY SHOWN ON THE PLANS. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCES ALONG THE PERIMETER OF DISTURBED AREAS AND AROUND MATERIAL STOCKPILES, AND STONE CONSTRUCTION ENTRANCE PADS AT POINTS OF MAJOR INGRESS AND EGRESS FROM PAVED ROADS TO UNPAVED

WHERE WORK IS IN PAVED ROADS, EROSION CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO STORM DRAIN INLET PROTECTION, KEEPING ROADS CLEAN,

AND CONTROLLING DUST

LIMITS OF DISTURBANCE WITHIN PAVED AREAS SHALL BE THE TRENCH WIDTH (40" MAX) IN ACCURDANCE WITH SPECIFICATIONS AND PIPE INSTALLATION DETAILS.

FILTER BAGS WILL BE USED AS AN EFFECTIVE FILTER MEDIUM TO CONTAIN SAND, SILT AND FINES WHEN TRENCH DEWATERING. THE WETLAND FILTER BAG CONTAINS THESE MATERIALS WHILE ALLOWING THE WATER TO FLOW THROUGH THE FABRIC.

WETLAND FILTER BAGS MAY REPLACE HAY BALE CORRALS DURING TRENCH DEWATERING, AT THE DISCRETION OF THE ENVIRONMENTAL INSPECTOR. TO INSURE, PROPER INSTALLATION, FILTER BAGS WILL BE PLACED ON RELATIVELY FLAT TERRAIN FREE OF BRUSH AND STUMPS TO AVOID RUPTURES AND PUNCTURES. PROPER INSTALLATION REQUIRES CUTTING A SMALL HOLE IN THE CORNER OF THE BAG, INSERTING THE PUMP DISCHARGE HOSE, AND THEN SECURING THE DISCHARGE HOSE TO THE BAG WITH A HOSE CLAMP. FILTER BAGS WILL BE PLACED AS FAR AWAY FROM FLOWING STREAMS AND WETLANDS AS POSSIBLE.

PRIOR TO REMOVING A BAG FROM THE HOSE, THE BAG WILL BE TIED OFF BELOW THE END OF THE HOSE ALLOWING THE BAG TO DRAIN. DRAINAGE WILL NOT BE ALLOWED THROUGH THE INLET HOLE. TO AVOID RUPTURE, THE BAGS WILL BE ATTENDED AND PUMPING RATES MONITORED. ONCE THE BAG IS INFLATED TO A HEIGHT OF 4 FEET, PUMPING WILL STOP TO AVOID RUPTURE. FILTER BAGS USED DURING CONSTRUCTION WILL BE BUNDLED AND REMOVED FOR PROPER DISPOSAL. FILTER BAGS ARE CONSTRUCTED OF NON-WOVEN GEOTEXTILE FABRIC. A MAXIMUM OF ONE SIX INCH DISCHARGE HOSE WILL BE ALLOWED PER FILTER BAG. BAG CAPACITY WILL BE EXCEEDED BEYOND 2,000 GALLONS PER MINUTE. TYPICAL BAG DIMENSIONS ARE 15 FEET BY 13.25 FEET. TO HELP PREVENT PUNCTURES, GEDTEXTILE FABRIC WILL BE PLACED BENEATH THE FILTER BAG WHEN USED IN WOODED LOCATIONS, UNATTENDED FILTER BAGS WILL BE ENCIRCLED WITH A HAYBALE OR SILT FENCE CORRAL. HOSE CLAMPS WILL BE USED TO SECURE THE DISCHARGE HOSE, WIRE OR STRING WILL NOT BE USED.

NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH ONLY.
- PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT
- A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 13 TO 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E., SLOPES GREATER THAN 3:1).
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEANED CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE, AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF ONE INCH TO TWO INCH (1"-2") STONE FOR A MINIMUM LENGTH OF TEN FEET (10") EQUAL TO THE LOT ENTRANCE WIDTH, ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILDS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
- 10. THE SOMERSET-UNION COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
- 11. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- 12. IN THAT N.J.S.A. 4:24-39 ET.SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR EROSION CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- 13. CONDUIT DUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED DUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- 14. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RECERTIFICATION, THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
- 15. UNFILTERED DEWATERING IS NOT PERMITTED, NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER, ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING.
- 16. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
- 17. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
- 18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- 19. STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5,000 SQUARE FEET IS DISTURBED
- 20. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #2.
- 21. ALL PAVED SURFACES SHALL BE SWEPT CLEAN AT THE END OF EACH WORK WEEK.

SEQUENCE OF CONSTRUCTION:

- 1. INSTALL SOIL EROSION AND SEDIMENT CONTROL MEASURES. 2. CLEAR AND ROUGH GRADE SITE
- 3. PROCEED WITH EXCAVATION, TANK FOUNDATION, TANK ERECTION, PIPELINE INSTALLATION, & BACKFILL.
- 4. CONSTRUCT RETAINING WALL
- 5. BACKFILL AND FINAL GRADING 6. INSTALL PERMANENT FENCE
- 7. CONSTRUCT OR REPLACE DRIVEWAY AND PAVED AREAS.
- 8. FINAL RESTORATION OF GRASS AREAS.
- 9. REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

*PERMANENT SEEDING NOTES:

RESTORATION OF GRASSED AND CULTIVATED AREAS: BEFORE REPLACING TOPSOIL, THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF THREE (3) INCHES, ALL LUMPS, STONES, AND FOREIGN MATERIALS REMOVED, AND THE SURFACE RAKED TO A UNIFORM GRADE. TOPSOIL SHALL THEN BE SPREAD, RAKED, AND ROLLED TO FORM AN EVEN SURFACE WITH EXISTING GRADE. IF SUFFICIENT TOPSOIL IS NOT OBTAINED FROM STRIPPING THE ORIGINAL AREAS DISTURBED, THE CONTRACTOR SHALL FURNISH ADDITIONAL MATERIAL AT NO ADDITIONAL COST.

THE GRASSED AREAS SHALL THEN BE LIMED, FERTILIZED AND SEEDED. LIME SHALL BE GROUND AGRICULTURAL LIMESTONE, 50% CALCIUM CARBONATE EQUIVALENT AND SHALL BE SPREAD AT THE RATE OF 90 LBS PER 1000 SQUARE FEET. FERTILIZER SHALL BE APPROVED 10-20-10 COMMERCIAL FERTILIZER, SPREAD AT THE RATE OF 11 LBS PER SQUARE FEET. TEMPORARY SEED SHALL BE DATS APPLIED AT THE RATE OF 2 LBS PER 1000 SQUARE FEET OR PEARL MILLET APPLIED AT THE RATE OF 0.5 LBS PER 1000 SQUARE FEET AND THE FINISHED SURFACE LIGHTLY RAKED AND ROLLED SMOOTH.

THE CONTRACTOR SHALL PROTECT ALL SEEDED SURFACES BY MULCHING WITH SMALL GRAIN STRAW, OR HAY WITH A LIQUID MULCH BINDER APPLIED AT A RATE OF 70-90 LBS PER 1000 SQUARE FEET AND SHALL TEND AND WATER ALL SEEDED AREAS UNTIL A SATISFACTORY GROWTH HAS BEEN ESTABLISHED. AREAS WHICH FAIL TO SHOW A SATISFACTORY GROWTH SHALL BE RESEEDED, FERTILIZED AND MULCHED UNTIL FULLY SATISFACTORY GROWTH IS ACHIEVED.

*SEE SPECIFICATIONS FOR PERMANENT SEEDING REQUIREMENTS

STANDARD FOR MANAGEMENT OF ACID SOILS

- 1) LIMIT THE EXCAVATION AREA AND EXPOSURE TIME IF HIGH ACID PRODUCING SOILS ARE ENCOUNTERED.
- 2) SEE NOTE 9 OF NOTES FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) EQUIPMENT USED FOR MOVEMENT OF HIGH ACID PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID SOIL MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS OR STORMWATER CONVEYANCES AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING.
- 4) NON VEGITATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAM, SILT FENCE, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID PRODUCING SOILS FROM AROUND OR OFF THE SITE.

PERMANENT SEEDING SPECIFICATIONS:

KENTUCKY BLUEGRASS (BLUE)

SEEDING MIXTURE SHALL CONSIST OF THE FOLLOWING MIXTURE

<u>SEED TYPE</u> HARD FESCUE RATE IN LBS PER 1000 S.F. PERENNIAL RYEGRASS

NEW JERSEY AMERICAN WATER

REVISIONS REVISIONS NEW SHEET DK 3/25/21



EDWARD J. DIMOND NJ LICENSED PROFESSIONAL ENGINEER

No. 26662

BUCHART HORN, INC. **DATE** 03/25/2021

2 EVES DRIVE, SUITE 110 MARLTON, NEW JERSEY 08053 FENWICK TANK PROJECT BOROUGH OF BERNARDSVILLE, SOMERSET COUNTY, NJ BLOCK 5, LOT 5 SOIL EROSION SEDIMENT CONTROL DETAILS **DRAWN BY** DK **Project eng'r** ejd

USE APPROVED DRAWINGS ONLY PERMIT PLANS **PROJECT** 76255-1N FOR CONSTRUCTION PURPOSES

NEW JERSEY AMERICAN WATER

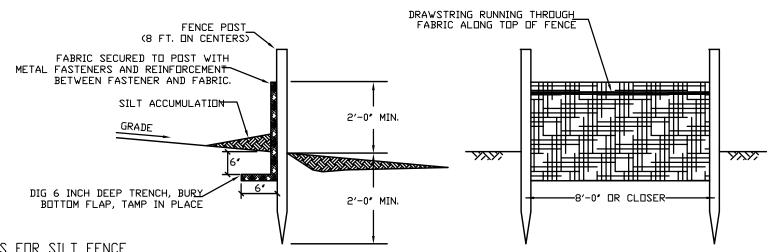
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PASSAIC WATER SYSTEM

USE DIMENSIONS ONLY

SCALE AS SHOWN

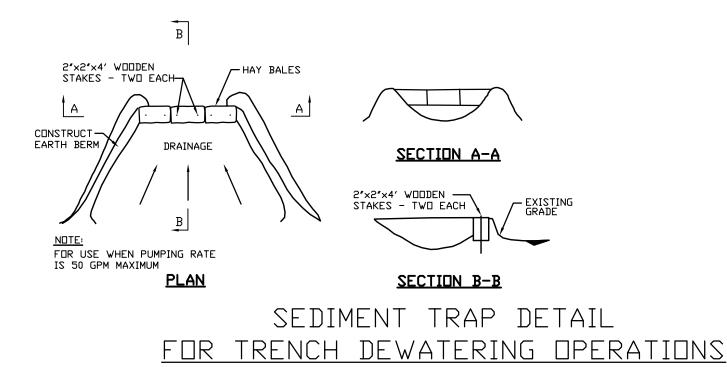
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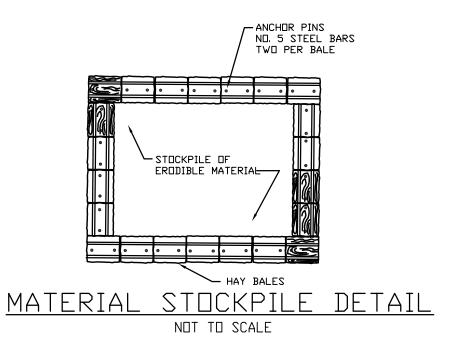


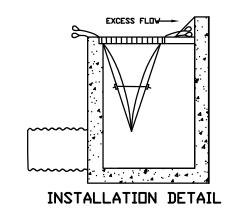
1. FENCE POSTS SHALL BE SPACED 8 FEET CENTER TO CENTER OR CLOSER, THEY SHALL EXTEND AT LEAST 2 FEET INTO GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND, POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1-1/2 INCHES.

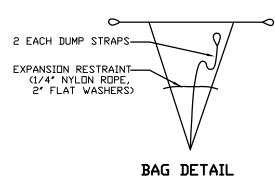
- 2. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
- 3. A GEDTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS, ETC.) PLACED BETWEEN THE FASTENER AND GEOTEXTILE FABRIC, THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST, THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

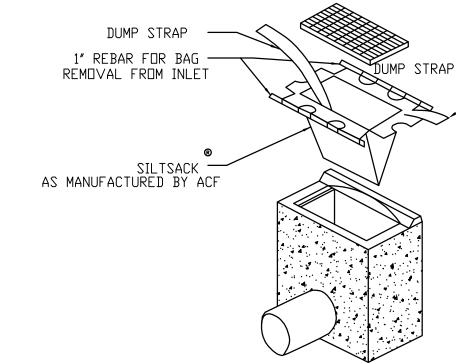
<u> SILT FENCE DETAIL</u> NOT TO SCALE







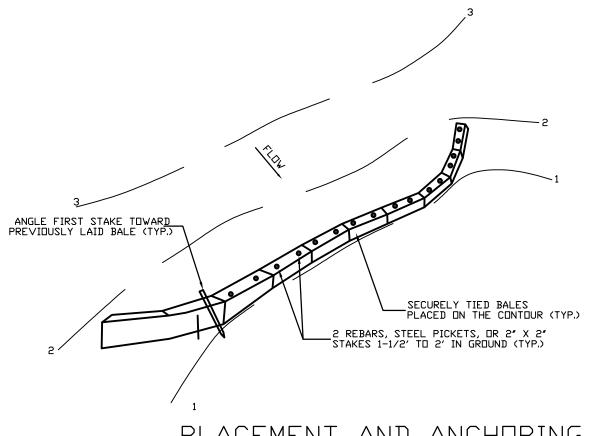




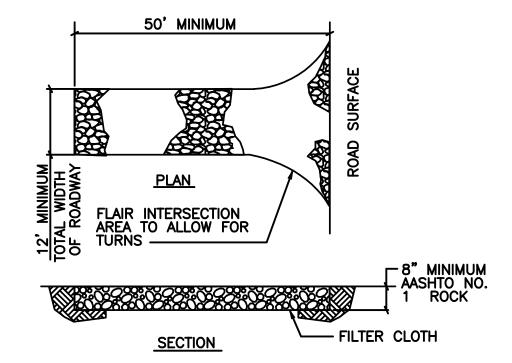
NOTES ON STORM SEWER INLET PROTECTION: MUST SLOW THE STORM WATER, PROVIDE THE COARSE SEDIMENT PARTICLES A CHANCE TO SETTLE, AND PROVIDE AN AREA TO RETAIN THE PARTICLES THAT HAVE SETTLED.

- 2. IN ALL CASES, INLET PROTECTION SHOULD NOT COMPLETELY CLOSE OFF THE INLET.
- 3. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.
- 4 OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 5 INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARD THE INLET HAS BEEN STABILIZED.
- 6 THE CONTRACTOR SHALL INSTALL STORM SEWER INLET PROTECTION IN ACCORDANCE WITH THE SE&SC IN NJ, #30, JULY 1999.

INLET SEDIMENT CONTROL DEVICE DETAIL NOT TO SCALE



PLACEMENT AND ANCHORING DETAIL BALE SEDIMENT BARRIERS NOT TO SCALE



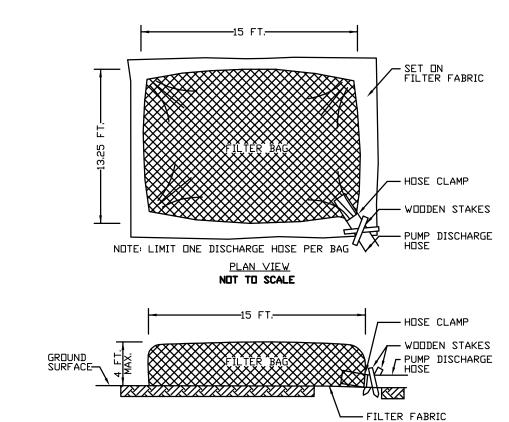
(1) ROCK CONSTRUCTION ENTRANCES WILL BE CONSTRUCTED TO THE MINIMUM WIDTH, LENGTH AND THICKNESS AS SHOWN. (2) ROCK WILL BE AASHTO NUMBER 1.

(2) ROCK WILL BE MASHTO NUMBER 1.

(3) FOR INSTALLATION ON CLAYEY OR POORLY DRAINED SOILS,
A GEOTEXILE FABRIC UNDERLAYMENT OF A TYPE RECOMMENDED
FOR SUCH APPLICATIONS WILL BE USED.

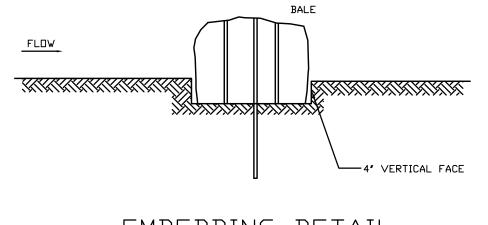
B. TEMPORARY CONSTRUCTION STAGING AREA TO BE DETERMINED BY
CONTRACTOR. RCE SHALL BE INSTALLED AS PER DETAIL SHOWN. MAINTENANCE: THE STRUCTURE'S THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER IS NOT PERMITTED.

STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE



FILTER BAG DETAIL FOR TRENCH DEWATERING OPERATIONS NOT TO SCALE

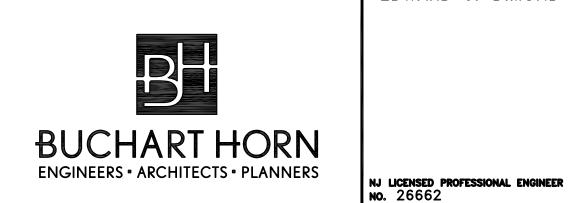
CROSS SECTION
NOT TO SCALE







REVISIONS	REVISIONS
NEW SHEET DK 3/25/21	



EDWARD	J.	DIMOND	BUCHART HORN 2 EVES DRIVE, MARLTON, NEW
			DRAWN BY DEPROJECT ENG'R
			DATE 07 //

ND	BUCHART HORN, INC. 2 EVES DRIVE, SUITE 110 MARLTON, NEW JERSEY 08053	
	DRAWN BY DK Project eng'r ejd	
	DATE 03/25/2021	

PROJECT 76255-1N

FENWICK TANK PROJECT BOROUGH OF BERNARDSVILLE, SOMERSET COUNTY, NJ BLOCK 5, LOT 5 SOIL EROSION SEDIMENT CONTROL DETAILS

PERMIT PLANS

USE DIMENSIONS ONLY SCALE AS SHOWN NEW JERSEY AMERICAN WATER PASSAIC WATER SYSTEM

USE APPROVED DRAWINGS ONLY

FOR CONSTRUCTION PURPOSES

SC01-SC02.DWG

SC02