

Downer sandy loam, 5 to 10 percent slopes

Greenwich loam, 0 to 2 percent slopes

Downer sandy loam, 2 to 5 percent slopes, Northern

Hurlock sandy loam, 0 to 2 percent slopes

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RT 24 WAVES CAR WASH

LEWES & REHOBOTH HUNDRED, SUSSEX COUNTY, DE

DBF #4361A001 JANUARY 2024

CONSTRUCTION PLANS

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	PARCEL#	OWNER	DEED	ZONING
A	334-12.00-46.00	J. G. TOWNSEND JR. CO.	D/2223/321	AR-1
В	334-12.00-58.00	JULIANE O TTEE HEIN	D/4372/43	AR-1
С	334-12.00-59.00	CORNELIUS & ELIZABETH DOLAN		AR-1
D	334-12.00-60.00	ISLAND DREAMS, LLC.	D/5979/135	AR-1
E	334-12.00-61.00	AYAN PATEL (SECOND OWNER: JIGNESH J. DESAI, SANJAY PATEL ETAL)	D/5766/327	AR-1
F	334-12.00-62.00	AYAN PATEL (SECOND OWNER: JIGNESH J. DESAI, SANJAY PATEL ETAL)	D/5766/327	AR-1
G	334-12.00-81.00	JOAN M. DEAVER	D/2400/218	AR-1
Н	334-12.00-187.00	KOSTA TSOUKALAS	D/2584/287	AR-1
T	334-12.00-125.00	BEEBE MEDICAL CENTER, INC.	D/3535/251	I-1
J	334-12.00-116.00	J. G. TOWNSEND JR. CO.	D/353/417	AR-1

DATA COLUMN

OWNER/DEVELOPER STATEMENT

DIRECTION, I ACKNOWLEDGE THE SAME TO BE MY ACT AND DESIRE THE PLAN BE

ENGINEER'S STATEMENT

1577 SPRING HILL ROAD

1 TAX MAP ID 3-34-12.00-115.00
2 DEED REFERENCE BOOK: 5511, PAGE: 124
3 APPROVIMATE PROJECT CENTER LATITUDE LONG

12 STATE STRATEGIES MAP

SIDE SETBACK

REAR SETBACK

22 TOTAL LOD AREA

4 SITE ADDRESS 19101 JOHN J. WILLIAMS HWY. REF

DAVIS, BOWEN & FRIEDEL, INC.

1 PARK AVENUE

MILFORD, DE 19963

JAMIE L. SECHLER, P.E.

PHONE: (302) 424-1441

CWNER/DEVELOPER

CHERNER DEVELOPMENT GROUF

1577 SPRING HILL ROAD

VIENNA, VA 22182

JOHNATHAN ACKAOUI

PHONE: (302) 424-1441

(703) 847-3871

DATUM HORIZONTAL VERTICAL NAVD 83 (DE STATE PLANE)

TOWNS

7 ZONING

EXISTING
AR-1

REVISE EXISTING
SINGLE STORY

PROPOSED
CR-1

PROPOSED
CAR WASH: 1 BUILDING AND 1 FULL SERVICE CANOPY

j.ackaoui@cherner.com

9 BUILDING EXISTING BUILDING
3,466 S.F. 9,359 S.F.

10 BUILDING CONSTRUCTION BC V-B V (000)

11 UTILITY PROVIDERS SEWER SUSSEX COUNTY WATER TIDEWATER UTILITES, INC.

POSTED SPEED LIMIT

WARRINGTON RD. (SCR 275)

35 MPH

THE PROPERTY IS NOT IMPACTED BY THE 100 YEAR FLOODPLAIN AS

DETERMINED BY FEMA PANEL 10005C0332K DATED MARCH 16, 2015.

15 TRANSPORTATION
IMPROVEMENT DISTRICT (TID)

HENLOPEN TID

16 GROUNDWATER RECHARGE
THE PROPERTY IS NOT LOCATED IN AN AREA OF EXCELLENT GROUNDWATER RECHARGE.

17 WELLHEAD PROTECTION AREA
THE PROPERTY IS LOCATED IN A WELLHEAD PROTECTION AREA.

18WETLANDSTHE PROPERTY IS NOT IMPACTED BY STATE OR FEDERALLY REGULATED WETLANDS.19CODE COMPLIANCEREQUIREDPROPOSEDFRONT SETBACK60 FT60FT

MAXIMUM BUILDING HEIGHT

PARKING

CAR WASH: 4 AT WAITING AREA FOR EACH LANE, 2 AT EXIT AREA FOR EACH LANE

AREAS

TOTAL SITE AREA

BUILDING AREA

10,212 S.F. (1.612 AC.)

PAVED AREAS 31,390 S.F. (0.721 A.C.) (44.73%)

TOTAL IMPERVIOUS COVER 40,749 S.F. (0.935 A.C.) (58.00%)

PERVIOUS COVER 29,470 S.F. (0.677 A.C.) (42.00%)

SURVEY DATE OCTOBER 2023

2.287 AC.

20 FT

42 FT (3 STORIES)

19 SPACES (INCLUDING 1 ADA

<u>PROPOSED</u>

70,212 S.F. (1.612 AC.)

9,359 S.F. (0.214 A.C.) (13.27%)

ST 24 WAVES CAR W.

JOHN J. WILLIAMS HWY. & WARR

LEWES & REHOBOTH HUNDRED, SUSSEX

DATE: DESCRIPTION

Date: JANUARY 2024

Scale: AS NOTED

Dwn.By: YGW

Proj.No.: 4361A001

TITLE SHEET

C-00′

MANMADE ROADSIDE FEATURES						
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID			
BOLLARD	0	0				
CURB, TYPE 1 AND 3			C			
CURB OPENING WITH SIDEWALK			A C			
FENCE - CHAINLINK OR STRANDED	xxx	-0-0-0-	F			
LAMP AND POST - RESIDENTIAL	X	¤				
MAILBOX	мв П	MB □				
TRAFFIC SIGN AND POST	₹	•				
CURB OPENING			<u>CO</u>			

	DRAINAGE FEATURES						
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID				
FLARED END SECTION			FE				
DRAINAGE MANHOLE	(D)	0	MH				
DRAINAGE INLET			DI				
DIRECTIONAL FLOW ARROW		~~					
RIPRAP			RR				
DRAINAGE PIPE	======		P				
UNDERDRAIN		—	(UD)				
UNDERDRAIN OUTLET							
SAFETY END SECTION			SES				
BIOFILTRATION SWALE		x—…—BFS—… → ×					
DITCH CENTERLINE	×××						
DRAINAGE JUNCTION BOX	J.B.		JB				
DRAINAGE PIPE HEADWALL							

IDENTIFIERS	
FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	(A)
ABANDON BY OTHERS	(A)
ADJUST BY CONTRACTOR	(A)
ADJUST BY OTHERS	A
CONVERT TO JUNCTION BOX	CJB
CONVERT TO DRAINAGE MANHOLE	<u>CMH</u>
DO NOT DISTURB	(DND)
PEDESTRIAN CONNECTION/TYPE	PC
PEDESTRIAN CONNECTION/TYPE WITHOUT DETECTABLE WARNING SYSTEM	PC-N
RELOCATE BY CONTRACTOR	RL C
RELOCATE BY OTHERS	(RL O
REMOVE BY CONTRACTOR	RM C
REMOVE BY OTHERS	(RM)

FEATURE DESCRIPTION	EXISTING	PROPOSED
ELECTRIC - UNDERGROUND	UG-E-	
ELECTRIC MANHOLE	E	
ELECTRIC METER	EM	
ELECTRIC TRANSFORMER		
GAS - UNDERGROUND	— UGG—— UGG——	UGG—— UGG—— UGG
GAS MANHOLE	G	
GAS METER	G.M.	
GAS VALVE	G.V.	
RAILROAD TRACKS	<u> </u>	
SANITARY MAIN	EX-SS	-
SANITARY SEWER MANHOLE	<u>S</u>	0
SOIL BORING LOCATION		•
TELEPHONE TEST POINT	T	
UTILITY POLE GUY WIRE ANCHOR	0→	⊙→
UTILITY POLE	Ø	Ø
WATER MAIN	EX_W	
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PAVEMENT SECTIONS						
HEAVY DUTY PAVEMENT						
LIGHT DUTY PAVEMENT						
SIDEWALK						
PAVERS						
OVERLAY PAVEMENT						
RECONSTRUCTED PAVEMENT						
DRIVEWAY AND ENTRANCE PAVEMENT						

NATURAL FEATURES						
FEATURE DESCRIPTION	EXISTING	PROPOSED				
HEDGEROW OR THICKET						
SHRUBBERY	\Diamond	*				
TREE - CONIFEROUS		()				
TREE - DECIDOUS						
TREE LINE		~~~~~				
CONTOUR ELEVATION & LABEL						
ELEVATION	44.70 ⊁	21.96				

RIGHT-	<u>OF-WAY FEATURE</u>	:5
FEATURE DESCRIPTION	EXISTING	PROPOSED
EASEMENT		++++
PROPERTY LINE		
RIGHT-OF-WAY BASELINE	1+00	1+00
RIGHT-OF-WAY LINE		
TAX DITCH RIGHT OF WAY	-	TAX RW
PERMANENT EASEMENT	PE	PE
TEMPORARY CONSTRUCTION EASEMENT	-	TCE

SURVEY CONTROL & MONUMENTATION							
FEATURE DESCRIPTION	EXISTING	PROPOSED					
SURVEY BENCHMARK LOCATION		BM#2					
IRON ROD WITH CAP SET		•					
CONCRETE MONUMENT	CMF ₀						
IRON PIPE FOUND	IPF O						
IRON ROD FOUND	IRF O						

MISCELLANEOUS FEATURES					
FEATURE DESCRIPTION	EXISTING	PROPOSED			
LIMIT OF DISTURBANCE		LOD			
WETLAND BOUNDARY - DELINEATED					



BOWEN & BOWEN & ARCHITECTS - ENGINEERS - SURVEYORS A10.770.4744 302.424.1441 410.543.9091

T 24 WAVES CAR WASH WILLIAMS HWY. & WARRINGTON RD. REHOBOTH HUNDRED, SUSSEX COUNTY, DE

	DESCRIPTION	2024-02-28 SCD, FM COMMENTS & OWNER REQUEST								
	DATE	2024-02-28								
		А								
L		Date: JANUARY 2024								
	Sca	ale:		NONE						
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4361A001

LEGEND

CIVIL PLAN GENERAL NOTES

- 1. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING TWO WEEKS PRIOR TO THE START OF CONSTRUCTION AND SHALL APPRISE AND COORDINATE DURING ALL PHASES OF CONSTRUCTION:
- 2. BOUNDARY AND TOPOGRAPHIC SURVEY WAS PERFORMED BY DAVIS, BOWEN & FRIEDEL, INC. ON AUGUST 16, 2023.
- 3. CONTRACTOR SHALL PROVIDE STAKEOUT NECESSARY FOR THE INSTALLATION OF UTILITIES, STORM DRAINS, PAVING AND ALL OTHER SITE WORK INCLUDED IN THESE PLANS. ALL STAKEOUT WORK IS TO BE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF DELAWARE.
- 4. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEVIATION FROM THESE PLANS UNLESS WRITTEN APPROVAL HAS BEEN PROVIDED 6. TOP OF MANHOLE ELEVATIONS ARE TOP OF MANHOLE FRAME AND COVER. BY THE ENGINEER.

DRAINAGE, GRADING AND SEDIMENT CONTROL GENERAL NOTES

- 1. ALL STORM DRAIN PIPING, INLET, MANHOLE, AND ENDSECTION INSTALLATION SHALL BE IN ACCORDANCE WITH DELDOT STANDARDS AND SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS.
- 2. ALL STORM DRAIN DESIGNATED AS RCP IS TO BE REINFORCED CONCRETE PIPE, MEETING ASTM DESIGNATION: C-76 REINFORCED CONCRETE CULVERT. STORM DRAIN AND SEWER PIPE. FOR PIPE CLASSIFICATION, SEE PIPE SCHEDULE.
- 3. ALL STORM DRAIN DESIGNATED AS HDPE IS TO BE HIGH DENSITY POLYETHYLENE PIPE. HDPE PIPE SHALL COMPLY WITH AASHTO M252, M294, MP1, AND ASTM 3350. PIPE SHALL BE INSTALLED PER ASTM D2321 AND AS RECOMMENDED BY THE MANUFACTURER. ALL HDPE PIPE SHALL
- 4. PIPE SPAN LENGTHS ARE MEASURED FROM C/L OF STRUCTURE TO C/L OF STRUCTURE, WHERE APPLICABLE ARE ROUNDED TO THE NEAREST
- 5. ALL SEALS MUST BE WATERTIGHT AND CONCRETE STRUCTURES MUST BE PRECAST OR POURED IN PLACE.
- 6. CONTRACTOR SHALL GRADE, TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS OF CONSTRUCTION, INCLUDING PIPE INSTALLATION OR DITCH CONSTRUCTION. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL SLOPES GREATER THAN 3:1.
- 7. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL MEASURES TO PROTECT STOCKPILE AREAS AND STORAGE AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE STAGING AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED TO THE SATISFACTION OF THE ENGINEER. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH RE-ESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 8. EQUIPMENT AND/OR STOCKPILE MATERIAL SHALL NOT BE STORED IN THE DRIPLINE AREA OF ANY TREE.
- 9. IF THE APPROVED PLAN NEEDS TO BE MODIFIED DUE TO THE SITE CONDITION DURING CONSTRUCTION. ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE SUSSEX CONSERVATION DISTRICT. ALL COSTS FOR THE ADDITIONAL MEASURES TO INCLUDE FLOCCULANTS SHALL BE AT THE SOLE COST OF THE CONTRACTOR.
- 10. IF LARGE AMOUNTS OF SEDIMENT HAVE ENTERED INTO THE STORM DRAIN SYSTEM, THE COUNTY ENGINEER, PROJECT ENGINEER OR SUSSEX CONSERVATION DISTRICT MAY REQUIRE THE PIPES BE FLUSHED AND VIDEO INSPECTED. ALL COSTS FOR THE PIPE FLUSHING AND VIDEO INSPECTION SHALL BE AT THE SOLE COST OF THE CONTRACTOR.
- 11. SEE ADDITIONAL NOTES ON C-401.

POTABLE WATER DISTRIBUTION GENERAL NOTES

- 1. MISS UTILITY OF DELMARVA SHALL BE NOTIFIED THREE (3) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT 1-800-282-8555.
- 2. ALL WATER DISTRIBUTION WORK SHALL COMPLY WITH THE TIDEWATER UTILITIES, INC. WATER MAIN CONSTRUCTION SPECIFICATIONS, LATEST EDITION. CONTRACTOR SHALL OBTAIN A COPY FROM TIDEWATER UTILITIES, INC. PRIOR TO BIDDING ON THE JOB. FAILURE TO OBTAIN A COPY OF THE SPECIFICATIONS SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY. ANY ADDITIONAL COSTS CAUSED BY THE FAILURE TO FOLLOW THE SPECIFICATIONS SHALL BE AT THE SOLE COST OF THE CONTRACTOR.
- 3. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- 4. THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING WATER MAINS TO WHICH NEW CONSTRUCTION WILL CONNECT.
- 5. WATER LATERALS SHALL HAVE A MINIMUM COVER OF 4.0 FEET FROM PROPOSED GRADE, AS MEASURED FROM THE TOP OF PIPE.
- 6. THE CONTRACTOR SHALL OPEN ONLY THAT SECTION OF TRENCH OR ACCESS PITS WHICH CAN BE BACKFILLED AND STABILIZED AT THE END OF EACH WORKING DAY. TRENCHES MAY NOT BE LEFT OPEN WITHOUT THE APPROVAL OF TIDEWATER UTILITIES. INC.
- 7. FINAL APPROVED SET OF PLANS AND SPECIFICATIONS SHALL BE MAINTAINED ON THE JOB SITE. FAILURE TO COMPLY WITH THIS PROVISION SHALL BE CONSIDERED CAUSE TO STOP THE WORK.
- 8. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF CONTRACT DRAWINGS ON WHICH HE SHALL NOTE. IN RED. THE ALIGNMENTS AND INVERTS OF ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED DURING THE PROSECUTION OF THE WORK. ALL DISCREPANCIES BETWEEN THE PLAN LOCATIONS AND ELEVATIONS OF BOTH THE EXISTING AND PROPOSED UTILITIES SHALL BE SHOWN ON THE AS-BUILT DRAWINGS TO BE MAINTAINED BY THE CONTRACTOR IN THE FIELD.
- 9. ROUTINE PERIODIC INSPECTIONS DURING CONSTRUCTION WILL BE PROVIDED BY TIDEWATER UTILITIES, INC OR DESIGNEE. THESE INSPECTIONS DO NOT RELIEVE THE CONTRACTOR FROM HIS/HER OBLIGATION AND RESPONSIBILITY FOR CONNECTING THE WATER SERVICES IN ACCORDANCE WITH TIDEWATER UTILITY, INC. STANDARDS AND SPECIFICATIONS.
- 10. DIFFERING SITE CONDITIONS AND/OR DIFFERING MATERIAL PROPERTIES SHALL REQUIRE TIDEWATER UTILITY, INC. OR DESIGNEE APPROVAL OF SPECIAL DESIGN DETAILS PREPARED BY THE DESIGN ENGINEER PRIOR TO INITIATING OR RESUMING CONSTRUCTION ACTIVITIES.
- 11. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOLLOWING EXCAVATIONS FOR INSPECTION AND EVALUATION OF EXISTING SOIL SUBGRADE CONDITIONS BY TIDEWATER UTILITIES, INC. OR DESIGNEE. TIDEWATER UTILITIES, INC. OR DESIGNEE SHALL INSPECT ALL LATERAL SUBGRADES FOLLOWING EXCAVATION AND PRIOR TO CONSTRUCTION OF NEW WORK TO CONFIRM DESIGN CONDITIONS ARE MET AND SUBGRADE CONDITIONS ARE SUITABLE FOR CONSTRUCTION. IN THE EVENT THE SOIL BEARING CAPACITY IS LESS THAN THE MINIMUM DESIGN VALUE, TIDEWATER UTILITIES, INC. OR DESIGNEE SHALL CAUSE AFFECTED CONSTRUCTION TO CEASE AND SHALL NOTIFY THE DESIGN ENGINEER FOR RE-DESIGN TO ACCOMMODATE THE REDUCED SOIL BEARING CAPACITY.
- 12. IN THE EVENT THE SUBGRADE CONDITION IS UNSTABLE, DUE TO UNSUITABLE MATERIALS AND/OR GROUNDWATER INFILTRATION/INTRUSION INTO THE SURROUNDING SOILS, AS DETERMINED BY TIDEWATER UTILITIES, INC. OR DESIGNEE, THE CONTRACTOR SHALL, AS DIRECTED BY TIDEWATER UTILITIES, INC. OR DESIGNEE, REMOVE THE UNSUITABLE MATERIAL AND FILL WITH SUITABLE APPROVED GRANULAR FILL MATERIAL.
- 13. CONTRACTOR SHALL EXTEND LATERAL BELOW ANY CONFLICTS OR OBSTRUCTIONS TO PROVIDE REQUIRED CLEARANCES. COST SHALL BE INCLUDED IN THE PRICE OF THE CONTRACT
- 14. THROUGHOUT THE PROJECT, WHERE WATER MAINS ARE LOCATED IN, ACROSS OR ADJACENT TO DRAINAGE DITCHES AND SWALES, THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION AND VEGETATE AS REQUIRED.
- 15. ALL PROPOSED WATER MAINS 6" AND LARGER SHALL BE C-909 CL235 PVC. ALL PROPOSED WATER SERVICES SHALL BE 1" SDR-9 POLY PVC
- 16. ALL WATER CONNECTIONS LESS THAN OR EQUAL TO 2" SHALL USE A STAINLESS STEEL SADDLE, CORPORATION STOP AND CURB STOP. ALL CONNECTIONS LARGER THAN 2" SHALL USE A TEE AND GATE VALVE WITH VALVE BOX.
- 17. ALL GATE VALVES SHALL BE PROVIDED WITH A ROADWAY SCREW-TYPE CAST IRON VALVE BOX.
- 18. VALVES LARGER THAN 4" SHALL BE ONE OF THE THREE TYPES APPROVED BY TIDEWATER UTILITIES, INC. ALL VALVES SHALL BE OPERABLE BY 3. ALL WORK MUST BE IN CONFORMANCE WITH TIDEWATER UTILITIES STANDARDS AND SPCIFICATIONS. A 6' VALVE WRENCH.
- 19. PLACE NEW VALVES NEXT TO TEES, BENDS, ETC., SUPPORT ALL VALVES ON A SOLID 4"X8" CONCRETE MASONRY UNIT.
- 20. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED IN ACCORDANCE WITH TIDEWATER UTILITIES, INC. STANDARDS AND SPECIFICATIONS BEFORE ACCEPTANCE.
- 21. ALL PROPOSED WATER MAIN AND SERVICES SHALL BE INSTALLED WITH A TRACER WIRE CONTINUOUSLY ALONG AND DIRECTLY ADHERED TO THE
- 22. THE CONTRACTOR WILL INSTALL THE WATER SERVICE TO THE GROUND MARKER AS SHOWN ON THE STANDARD DETAILS. THE WATER METER AND PIT ASSEMBLY WILL BE PURCHASED BY THE DEVELOPER AND INSTALLED BY TIDEWATER UTILITIES, INC.
- 23. ALL VALVE CLOSURES AND CUT-INS SHALL BE COORDINATED WITH TIDEWATER UTILITIES, INC. OR DESIGNEE. TIDEWATER. CONTRACTOR SHALL COORDINATE ISOLATION OF EXISTING WATER MAINS WITH TIDEWATER UTILITIES, INC. OR DESIGNEE AND NOTIFY RESIDENTS AT LEAST 48 HOURS
- 24. ALL FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT RESTRAINT AND AWWA APPROVED. SEE TIDEWATER UTILITIES, INC. STANDARDS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL FITTINGS SHALL BE THRUST RESTRAINED AS SHOWN ON THE STANDARD DETAILS.
- 25. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM SEWER MAINS. WATER CROSSING SEWER MAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18" TO OUTSIDE OF PIPES. IF AN 18" CLEARANCE CANNOT BE OBTAINED, CONTRACTOR IS TO CONTACT THE DESIGN ENGINEER TO DETERMINE THE APPROPRIATE INSTALLATION (PER TIDEWATER'S APPROVAL) OF WATER MAIN AT CLEARANCE CONFLICT. WATER MAINS MAY NEED TO BE DEFLECTED TO MEET THE SEPARATION REQUIREMENTS.
- 26. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO LOCATE PROPERTY LINES, EASEMENTS, AND RIGHT-OF-WAY LINES PRIOR TO CONSTRUCTION AND AVOID CONSTRUCTION ACTIVITIES ON PRIVATE PROPERTY AND/OR RIGHTS OF WAYS WHERE SAID CONSTRUCTION IS PROHIBITED. THE CONTRACTOR MAY CONDUCT CONSTRUCTION ACTIVITIES ON PRIVATE PROPERTY PROVIDED HE HAS OBTAINED PRIOR WRITTEN PERMISSION FROM THE PROPERTY OWNER AND HAS SUBMITTED A COPY OF SAID WRITTEN PERMISSION TO SUSSEX COUNTY ENGINEERING AND TIDEWATER UTILITIES, INC. ANY DISTURBED AREAS BEYOND THE RIGHT-OF-WAY OR EASEMENT LINES SHALL BE RESTORED IMMEDIATELY TO THEIR ORIGINAL CONDITION. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE COST OF ITEMS BID.

SANITARY SEWER GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE STAKEOUT SURVEY NECESSARY FOR THE INSTALLATION OF UTILITY WORK AND APPURTENANCES.

2. SANITARY SEWER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SUSSEX COUNTY ENGINEERING STANDARDS AND

- SPECIFICATIONS AND DETAILS LATEST EDITION.
- 3. USE ONLY SUITABLE GRANULAR MATERIAL APPROVED BY (TIDEWATER UTILITIES). FOR BACKFILLING TRENCHES.
- 4. SANITARY SEWER LATERAL SHALL BE 6" PVC SDR-26. SEWER LATERAL SHALL INCLUDE A 6" CLEANOUT, WYE, AND CAP JUST BEHIND THE EDGE OF SIDEWALK.
- 5. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- 7. PIPE SPAN LENGTHS ARE MEASURED FROM C/L OF STRUCTURE TO C/L OF STRUCTURE, WHERE APPLICABLE ARE ROUNDED TO THE NEAREST FOOT.
- 8. THE CONTRACTOR SHALL FIELD VERIFY INVERTS AND LOCATION OF EXISTING SANITARY SEWER MAINS OR MANHOLES TO WHICH NEW CONSTRUCTION WILL CONNECT.
- 9. THE SEWER LATERAL SHALL HAVE A MINIMUM COVER OF 3.0 FEET FROM PROPOSED GRADE, AS MEASURED FROM THE TOP OF
- 10. THE CONTRACTOR SHALL OPEN ONLY THAT SECTION OF TRENCH OR ACCESS PITS WHICH CAN BE BACKFILLED AND STABILIZED AT THE END OF EACH WORKING DAY. TRENCHES MAY NOT BE LEFT OPEN WITHOUT PERMISSION FROM (UTILITIES
- 11. FINAL APPROVED SET OF PLANS AND SPECIFICATIONS SHALL BE MAINTAINED ON THE JOB SITE. FAILURE TO COMPLY WITH THIS PROVISION SHALL BE CONSIDERED CAUSE TO STOP THE WORK.
- 12. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF CONTRACT DRAWINGS ON WHICH THE CONTRACTOR SHALL NOTE, IN RED, THE ALIGNMENTS AND INVERTS OF ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED DURING THE PROSECUTION OF THE WORK. ALL DISCREPANCIES BETWEEN THE PLAN LOCATIONS AND ELEVATIONS OF BOTH THE EXISTING AND PROPOSED UTILITIES SHALL BE SHOWN ON THE AS—BUILT DRAWINGS TO BE MAINTAINED BY THE CONTRACTOR IN THE
- 13. (UTILITIES COMPANY) WILL PROVIDE FULL TIME INSPECTIONS DURING ALL SANITARY SEWER CONSTRUCTION. THESE INSPECTIONS DO NÓT RELIEVE THE CONTRACTOR FROM HIS OBLIGATION AND RESPONSIBILITY FOR CONSTRUCTING A SANITARY SEWER SYSTEM IN STRICT ACCORDANCE WITH ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARDS AND SPECIFICATIONS.
- 14. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO LOCATE PROPERTY LINES, EASEMENTS, AND RIGHT-OF-WAY LINES PRIOR TO CONSTRUCTION AND AVOID CONSTRUCTION ACTIVITIES ON PRIVATE PROPERTY AND/OR RIGHTS OF WAYS WHERE SAID CONSTRUCTION IS PROHIBITED. THE CONTRACTOR MAY CONDUCT CONSTRUCTION ACTIVITIES ON PRIVATE PROPERTY PROVIDED HE HAS OBTAINED PRIOR WRITTEN PERMISSION FROM THE PROPERTY OWNER AND HAS SUBMITTED A COPY OF SAID WRITTEN PERMISSION TO ARTESIAN AND TIDEWATER UTILITIES, INC. ANY DISTURBED AREAS BEYOND THE RIGHT-OF-WAY OR EASEMENT LINES SHALL BE RESTORED IMMEDIATELY TO THEIR ORIGINAL CONDITION. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE COST OF ITEMS BID.
- DIFFERING SITE CONDITIONS AND/OR DIFFERING MATERIAL PROPERTIES SHALL REQUIRE ARTESIAN WASTEWATER MANAGEMENT, INC. APPROVAL OF SPECIAL DESIGN DETAILS PREPARED BY THE DESIGN ENGINEER PRIOR TO INITIATING OR RESUMING CONSTRUCTION ACTIVITIES
- THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOLLOWING EXCAVATIONS FOR INSPECTION AND EVALUATION OF EXISTING SOIL SUBGRADE CONDITIONS. ARTESIAN WASTEWATER MANAGEMENT, INC. SHALL INSPECT ALL SUBGRADES FOLLOWING EXCAVATION AND PRIOR TO CONSTRUCTION OF NEW WORK TO CONFIRM DESIGN CONDITIONS ARE MET AND SUBGRADE CONDITIONS ARE SUITABLE FOR CONSTRUCTION. IN THE EVENT THE SOIL BEARING CAPACITY IS LESS THAN THE MINIMUM DESIGN VALUE, (UTILITIES COMPANY) SHALL CAUSE AFFECTED CONSTRUCTION TO CEASE AND SHALL NOTIFY THE DESIGN ENGINEER FOR RE-DESIGN TO ACCOMMODATE THE REDUCED SOIL BEARING CAPACITY.
- 17. IN THE EVENT THE SUBGRADE CONDITION IS UNSTABLE, DUE TO UNSUITABLE MATERIALS AND/OR GROUNDWATER INFILTRATION/INTRUSION INTO THE SURROUNDING SOILS, REMOVE THE UNSUITABLE MATERIAL AND FILL WITH SUITABLE APPROVED GRANULAR FILL MATERIAL.
- 18. SEWER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM WATER MAINS. SEWER CROSSING WATER MAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18" TO OUTSIDE OF PIPES. IF AN 18" CLEARANCE CANNOT BE OBTAINED, A 10 LINEAR FOOT CONCRETE ENCASEMENT SHALL BE USED. WATER MAINS MAY NEED TO BE DEFLECTED TO MEET THE SEPARATION REQUIREMENTS.

DEMOLITION AND SAFETY GENERAL NOTES

THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA.

- 1. MISS UTILITY OF DELMARVA SHALL BE NOTIFIED THREE CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT
- 2. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HIS/HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION,
- 3. THE CONTRACTOR SHALL REMOVE AND IMMEDIATELY REPLACE, RELOCATE, RESET OR RECONSTRUCT ALL OBSTRUCTIONS IN THE ROAD WAY, INCLUDING, BUT NOT LIMITED TO, MAILBOXES, SIGNS, LANDSCAPING, LIGHTING, PLANTERS, CULVERTS, DRIVEWAYS. PARKING AREAS, CURBS, GUTTERS, FENCES, OR OTHER NATURAL OR MAN-MADE OBSTRUCTIONS. TRAFFIC CONTROL, REGULATORY, WARNING AND INFORMATIONAL SIGNS SHALL REMAIN FUNCTIONAL AND VISIBLE TO THE APPROPRIATE LANES OF TRAFFIC AT ALL TIMES, WITH THEIR RELOCATION KEPT TO A MINIMUM DISTANCE. THE COST SHALL BE INCLUDED IN THE COST OF ITEMS BID.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS. ORDINANCES. RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY AND PROTECTION.
- 5. DELAWARE REGULATIONS PROHIBIT THE BURIAL OF CONSTRUCTION DEMOLITION DEBRIS. INCLUDING TREES AND STUMPS ON CONSTRUCTION SITES. ANY SOLID WASTE FOUND DURING THE EXCAVATION FOR STRUCTURES AND UTILITY LINES ON AND OFF SITE MUST BE REMOVED AND PROPERLY DISCARDED. ANY REMEDIAL ACTION REQUIRED IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM. ADDITIONAL COSTS WILL BE NEGOTIATED WITH THE OWNER.
- 6. DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL WORK MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
- 7. PROPER DISCONNECTION OF EXISTING STRUCTURES FROM COUNTY SEWER SHALL BE COMPLETE AND INSPECTED BY COUNTY PERSONNEL PRIOR TO DEMOLITION OF STRUCTURES OR COMMENCEMENT OF SITE WORK. CONTACT THE SUSSEX COUNTY UTILITY PERMITS SECTION AT 302-855-7719 JAYNE DICKERSON DIRECTOR: TO ORTAIN DISCONNECT PERMITS FOR THE SEWER CLEANOUTS FOR EACH RESIDENTIAL DWELLING. A DISCONNECT PERMIT WILL BE REQUIRED BEFORE DEMOLITION BEGINS.

POTABLE WATER DISTRIBUTION GENERAL NOTES

- 1. TIDEWATER UTILITIES RESIDENT PROJECT REPRESENTATIVE SHALL BE ON-SITE AT ALL TIMES WHEN THE CONTRACTOR IS INSTALLING AND/OR TESTING THE WATER DISTRIBUTION AND HOUSE SERVICE SYSTEM
- 2. THE DEVELOPER SHALL PURCHASE THE METER PIT FROM TIDEWATER UTILITIES AND INSTALL IT IN ACCORDANCE WITH TIDEWATER UTILITIES STANDARDS AND SPECIFICATIONS.
- 4. ALL WORK MUST BE HYDROSTATICALLY TESTED AND THEN DISINFECTED. CONTRACTOR SHALL SUPPLY ALL MATERIALS TO TEST AND DISINFECT THE SYSTEM. CONTRACTOR IS REQUIRED TO OBTAIN A CERTIFICATE TO OPERATED FROM DHSS OFFICE OF DRINKING WATER.
- 5. ALL AREAS DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. IF ADDITIONAL WORK IS REQUIRED IN THE FUTURE THEN THE AREA SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS.
- 6. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM SEWER MAINS. WATER CROSSING SEWER MAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18" TO OUTSIDE OF PIPES. IF AN 18" CLEARANCE CANNOT BE OBTAINED, A 10 LINEAR FOOT CONCRETE ENCASEMENT SHALL BE USED ON THE SEWER MAIN.
- 7. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF CONTRACT DRAWINGS ON WHICH HE SHALL NOTE, IN RED, THE ALIGNMENTS AND INVERTS OF ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED DURING THE PROSECUTION OF THE WORK. ALL DISCREPANCIES BETWEEN THE PLAN LOCATIONS AND ELEVATIONS OF BOTH THE EXISTING AND PROPOSED UTILITIES SHALL BE SHOWN ON THE AS-BUILT DRAWINGS TO BE MAINTAINED BY THE CONTRACTOR IN THE FIELD.
- 8. PLAN LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. THE CONTRACTOR SHALL ADJUST WATERLINE LOCATIONS AS REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES.
- 9. THE DEVELOPER SHALL CONFIRM THE LOCATION OF VALVES BETWEEN PHASES OF THE WATER SYSTEM TO FACILITATE CONSTRUCTION OF FUTURE PHASES OF THE DEVELOPMENT.
- 10. ALL TIDEWATER UTILITIES, INC. WATER MAINS 6" AND UP SHALL BE C-909 CL235. WATER MAINS 4" SHOULD BE C-900 DR18 PVC.
- 11. THE OWNER SHALL BE REQUIRED TO PROVIDE A REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY (RPBP) FOR THE DOMESTIC AND FIRE SERVICE LINES. FOR THE DOMESTIC SERVICE, THE RPBP IS TO BE INSTALLED AFTER THE WATER METER AND PRIOR TO THE FIRST BRANCH LINE IN THE PLUMBING SYSTEM. FOR THE FIRE SERVICE. THE RPBP IS TO BE INSTALLED AFTER THE FIRE SERVICE SHUTOFF VALVE AND PRIOR TO THE FIRST BRANCH IN THE PLUMBING SYSTEM. THE RPBP MUST BE ASSE 1013 CERTIFIED AND IT MAY EITHER BE LOCATED INSIDE THE BUILDING OR OUTSIDE IN AN ABOVE GROUND ENCLOSURE.

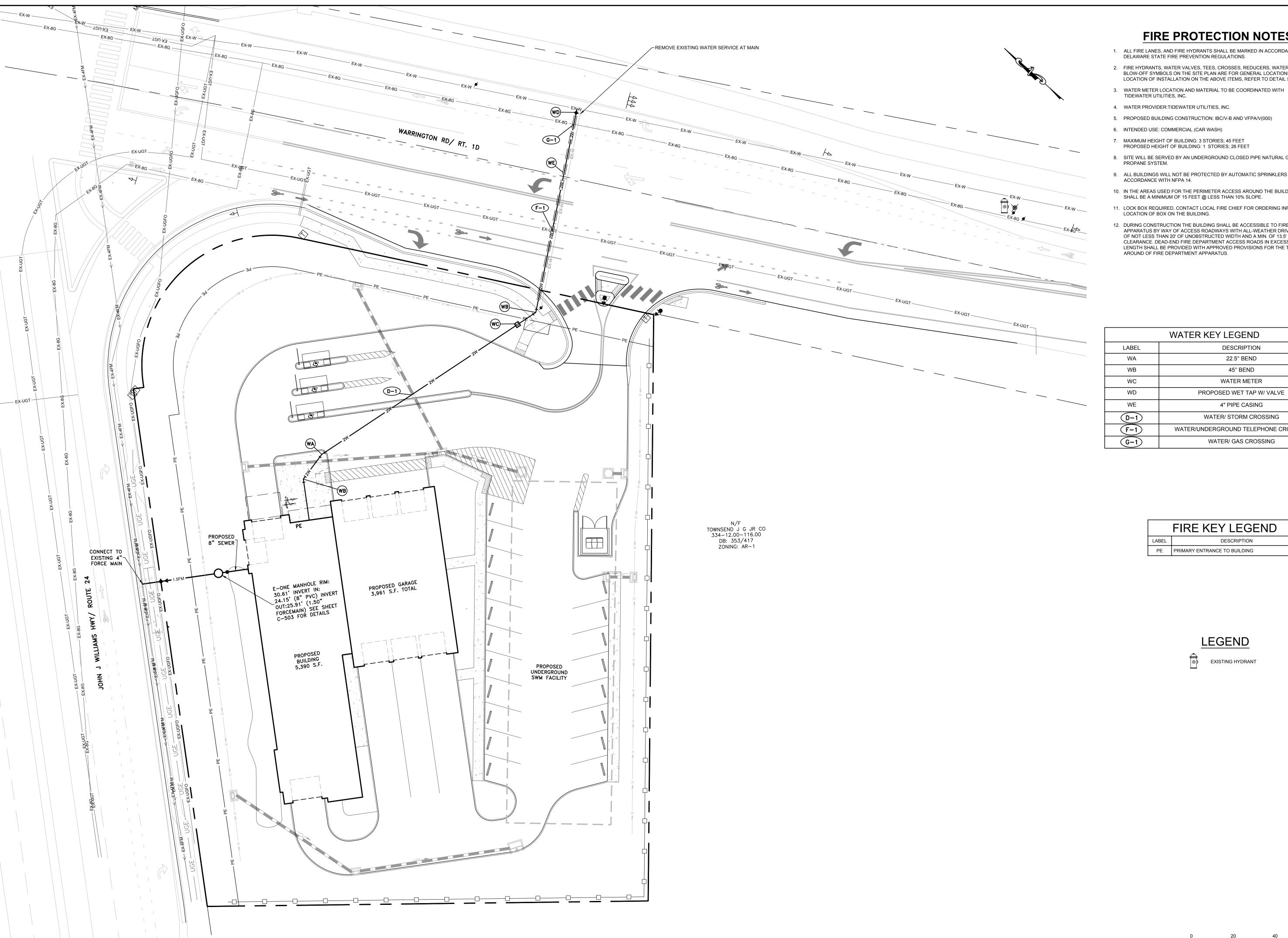


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FIRE PROTECTION NOTES

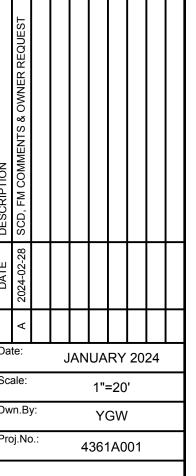
- ALL FIRE LANES, AND FIRE HYDRANTS SHALL BE MARKED IN ACCORDANCE WITH THE DELAWARE STATE FIRE PREVENTION REGULATIONS.
- 2. FIRE HYDRANTS, WATER VALVES, TEES, CROSSES, REDUCERS, WATER METERS AND BLOW-OFF SYMBOLS ON THE SITE PLAN ARE FOR GENERAL LOCATIONS. FOR PROPER
- LOCATION OF INSTALLATION ON THE ABOVE ITEMS, REFER TO DETAIL SHEETS C-503.
- 4. WATER PROVIDER:TIDEWATER UTILITIES, INC.
- 5. PROPOSED BUILDING CONSTRUCTION: IBC/V-B AND VFPA/V(000)
- 6. INTENDED USE: COMMERCIAL (CAR WASH)
- 7. MAXIMUM HEIGHT OF BUILDING: 3 STORIES; 45 FEET PROPOSED HEIGHT OF BUILDING: 1 STORIES; 26 FEET
- 8. SITE WILL BE SERVED BY AN UNDERGROUND CLOSED PIPE NATURAL GAS OR
- 9. ALL BUILDINGS WILL NOT BE PROTECTED BY AUTOMATIC SPRINKLERS IN
- 10. IN THE AREAS USED FOR THE PERIMETER ACCESS AROUND THE BUILDINGS, THERE SHALL BE A MINIMUM OF 15 FEET @ LESS THAN 10% SLOPE.
- 11. LOCK BOX REQUIRED, CONTACT LOCAL FIRE CHIEF FOR ORDERING INFORMATION AND LOCATION OF BOX ON THE BUILDING.
- 12. DURING CONSTRUCTION THE BUILDING SHALL BE ACCESSIBLE TO FIRE DEPARTMENT APPARATUS BY WAY OF ACCESS ROADWAYS WITH ALL-WEATHER DRIVING SURFACE OF NOT LESS THAN 20' OF UNOBSTRUCTED WIDTH AND A MIN. OF 13.5' VERTICAL CLEARANCE. DEAD-END FIRE DEPARTMENT ACCESS ROADS IN EXCESS OF 150'
 LENGTH SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR THE TURNING AROUND OF FIRE DEPARTMENT APPARATUS.

WATER KEY LEGEND							
LABEL	DESCRIPTION						
WA	22.5° BEND						
WB	45° BEND						
WC	WATER METER						
WD	PROPOSED WET TAP W/ VALVE						
WE	4" PIPE CASING						
D-1	WATER/ STORM CROSSING						
F-1	WATER/UNDERGROUND TELEPHONE CROSSING						
(G-1)	WATER/ GAS CROSSING						

FIRE KEY LEGEND DESCRIPTION PE PRIMARY ENTRANCE TO BUILDING



EXISTING HYDRANT

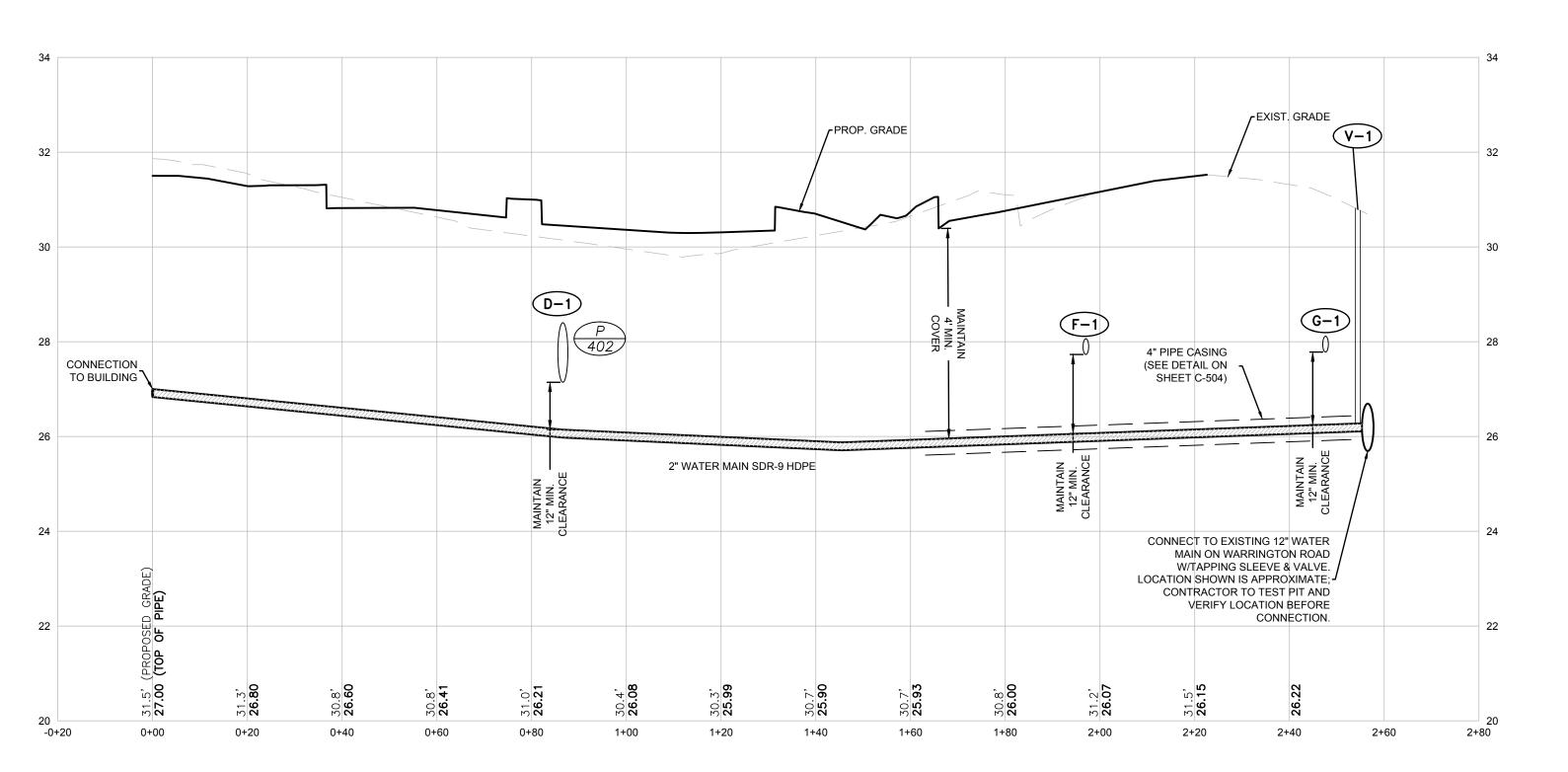


UTILITY PLAN

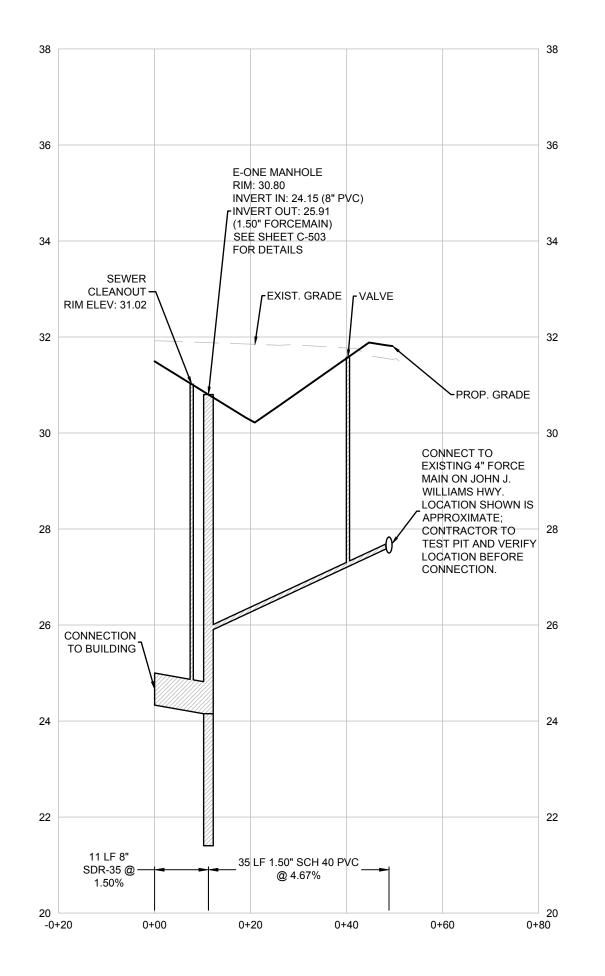
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SCALE: HORIZ. 1"=20'
VERT. 1"=2'

SANITARY SEWER PROFILE



BOWEN & BOWEN & FRIEDEL, INC ARCHITECTS - ENGINEERS - SURVEYOR 302.424.1441 410.543.9091

JOHN J. WILLIAMS HWY. & WARRINGTON RD.

LEWES & REHOBOTH HUNDRED, SUSSEX COUNTY, DE

DATE: DESCRIPTION

Date: JANUARY 2024

Scale: HORIZ: 1"=20'
VERT: 1"=2'

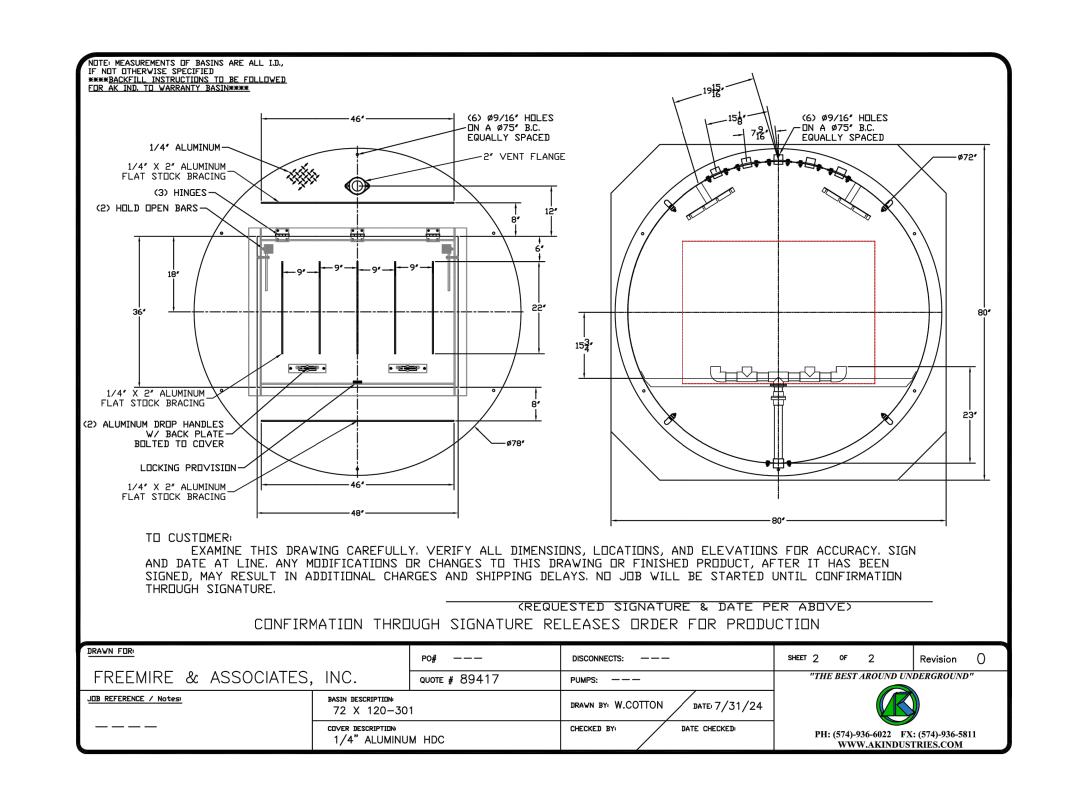
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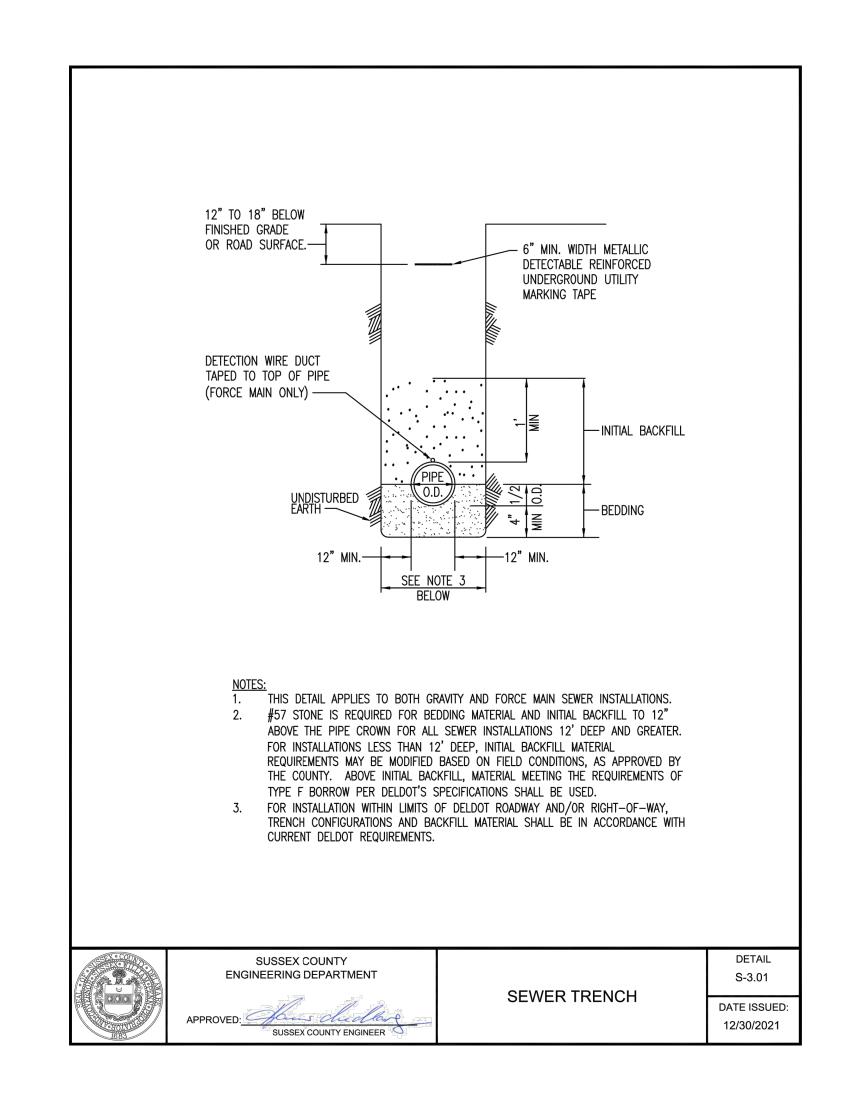
UTILITY PROFILES

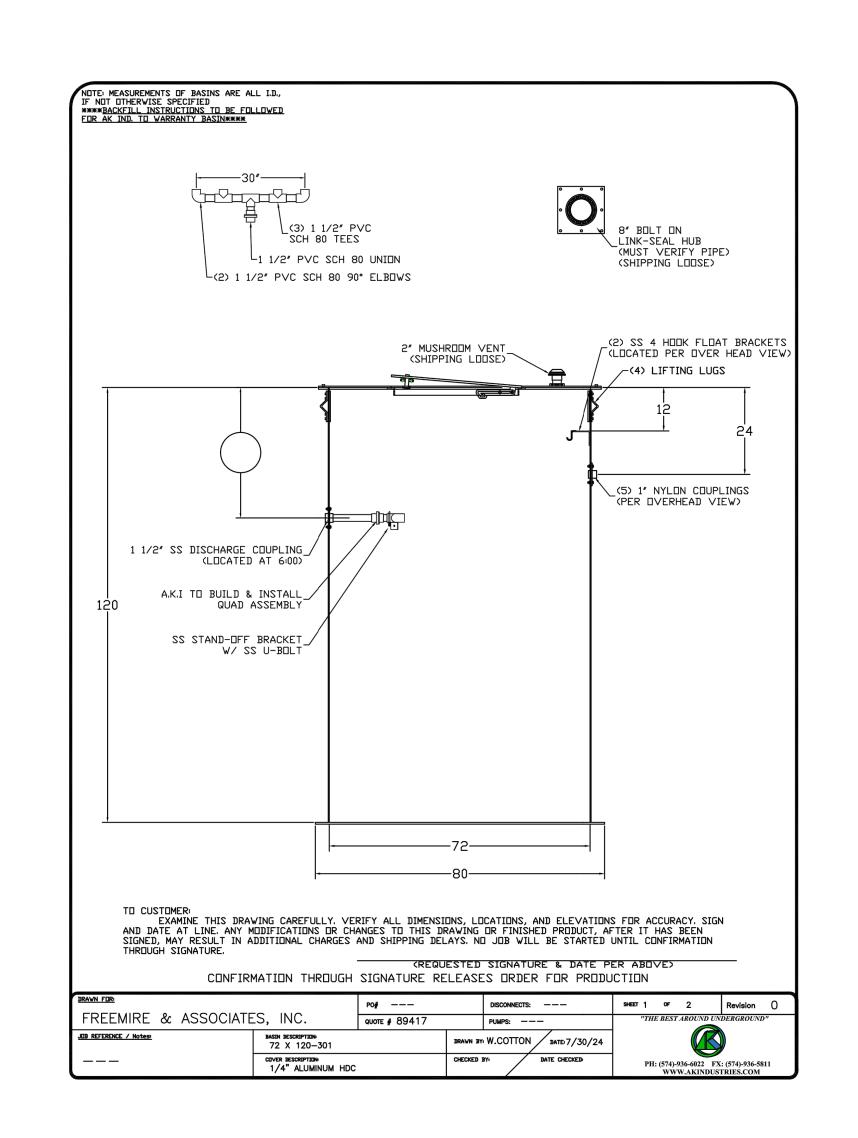
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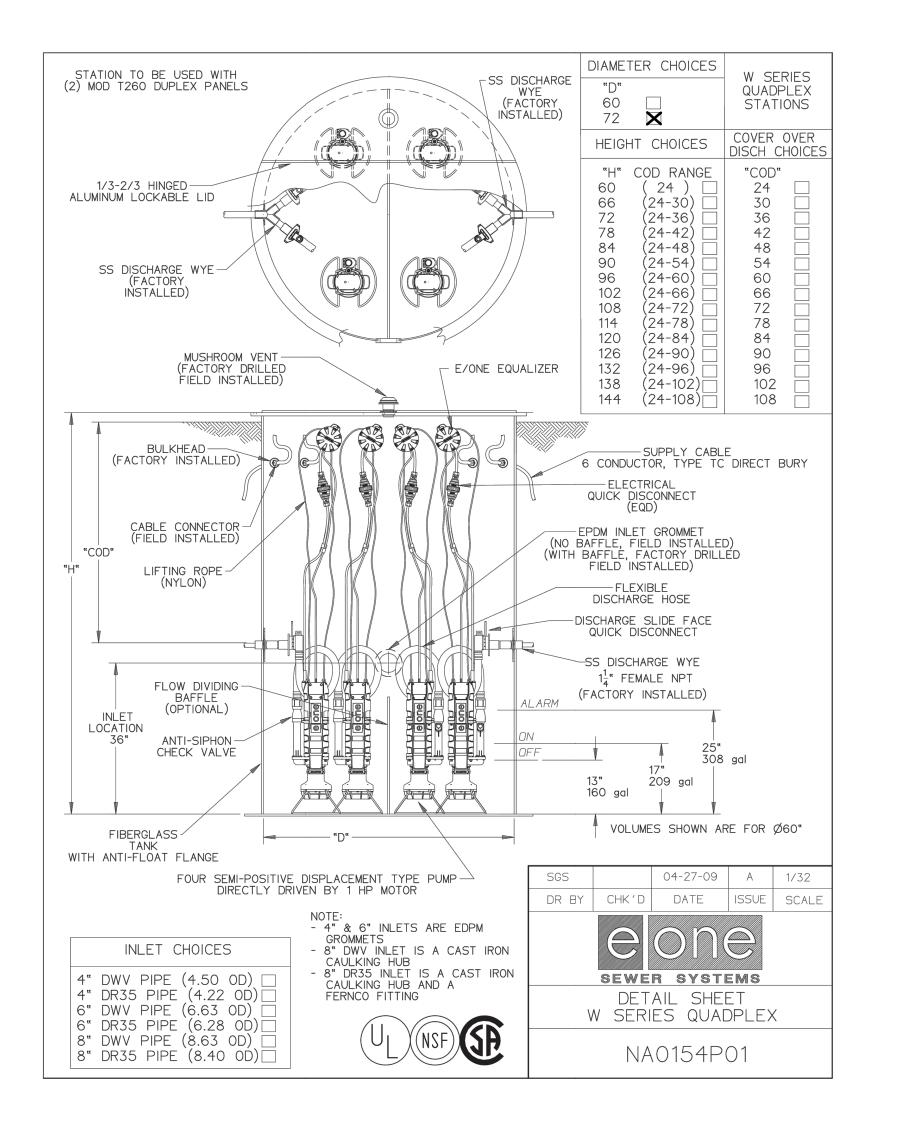
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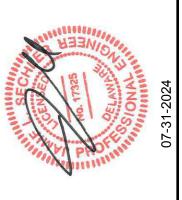
BUZZER AND SILENCE SWITCH











RD

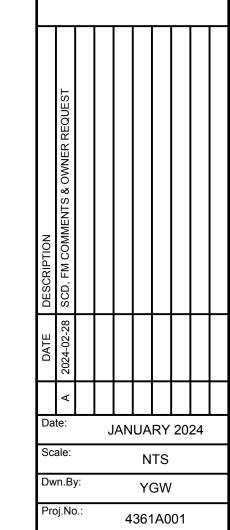
DESCRIPTION	2024-02-28 SCD, FM COMMENTS & OWNER REQUEST									
DATE	2024-02-28									
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Da	Date: JANUARY 2024									
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UTILITY **DETAILS**

C-503







UTILITY **DETAILS**

