

# TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME: GAS LAND PETROLEUM, INC.

PROJECT NO.: 2019-16

PROJECT LOCATION: 5200 ROUTE 9W

SECTION 43, BLOCK 5, LOT 1

REVIEW DATE: 13 SEPTEMBER 2024
MEETING DATE: 19 SEPTEMBER 2024

PROJECT REPRESENTATIVE: LABELLA

- The subsurface sanitary sewer disposal system has been revised according to our previous comments. Surface sanitary sewer disposal system is now located in an area without proposed filling. The system is designed to treat 356 gallons per day based on the SSDS Demand Calculations provided.
- 2. Approval from NYSDOT for the entrance drive is required.
- 3. The NYSDOT is requiring a left turn lane within NYS Route 9W. Approval of this left turn lane is required. Ken Wersted's comments regarding this should be received.
- 4. A watermain has been depicted on the plans which has been up-sized to 8 inches. An easement in favor of the Town of Newburgh is proposed. Any approval should address the easement for the watermain.
- 5. Orange County Health Department approval for watermain extension with hydrants is required.
- 6. The plan requires the abandonment of on-site wells. Approval resolution should address the requirement to abandon the wells in compliance with applicable codes.
- A note appears on the plan identifying potential underground tanks, potential contaminated soil and previous piping. Status of any underground tanks should be identified and addressed on the plans.
- 8. A permit from the Town of Newburgh is required for any tank removals.
- 9. Coordination with Central Hudson Gas and Electric should be undertaken regarding proposed activities within the Central Hudson gas line easement. Several proposed utilities including stormwater, potable water as well as the site access drive improvements cross the Central Hudson high pressure gas main.

- 10. Status of NYSDOT's approval for sidewalks which are within the right-of-way and on the project, site should be addressed.
- 11. Architectural review of the commercial buildings will eventually be required prior to approvals.
- 12. Approval for stormwater connection to DOT catch basin required.
- 13. Since the project was previously before the Board the Town has adopted a Tree Preservation Ordinance. Compliance with the Tree Preservation Ordinance must be documented.
- 14. A location on the plan where the former subsurface sanitary disposal system material is to be buried should be depicted.
- 15. Information pertaining to the existing 2-story dwellings subsurface sanitary sewer disposal system should be provided.
- 16. Ken Wersted's comments on the improvements should be received.
- 17. Any architectural review should address signage proposed on the site. It is noted that signage on the canopy requires ZBA approval.
- 18. Final review of the SWPPP prepared for the site is being undertaken. The site is a stormwater hot spot. This must be addressed on the SWPPP.

Respectfully submitted,

MHE Engineering, D.P.C.

Putel of Offenes

Patrick J. Hines

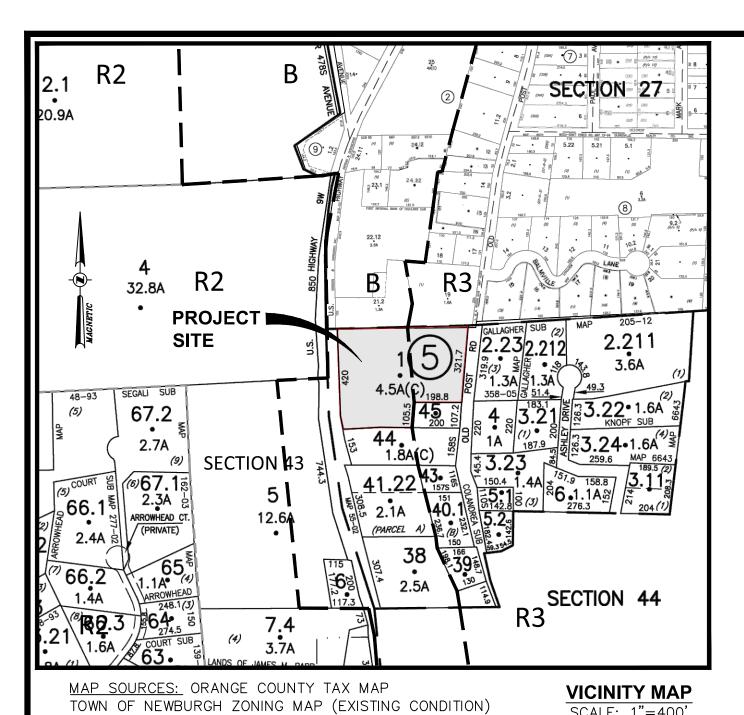
Principal

PJH/kmm/kbw

Michael W. Weeks, P.E.

Muc Wall

Principal



# SITE PLAN

PREPARED FOR

# GAS LAND PETROLEUM, INC.

FOR A

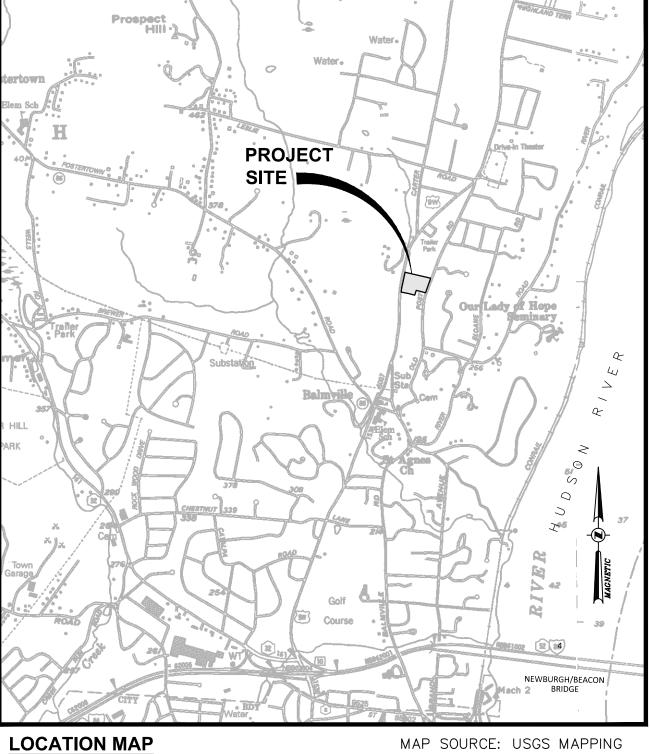
# CONVENIENCE STORE WITH A GASOLINE FILLING STATION

**LOCATED AT** 

# **5200 N.Y.S. ROUTE 9W** TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK

**JANUARY 20, 2022** LAST REVISED: MARCH 4, 2024

	INDEX OF DRAWINGS							
PAGE NO.	REV	SHEET NO.	DATE	DESCRIPTION				
1	2	G001	03/04/24	TITLE SHEET				
2	1	G002	03/03/22	NOTES & LEGENDS				
3	0	SV1	10/21/19	EXISTING CONDITIONS PLAN (BY OTHERS)				
4	3	C120	03/04/24	DEMOLITION PLAN				
5	3	C130	03/04/24	SITE PLAN				
6	1	C131	03/03/22	TRUCK MANEUVERING PLAN				
7	1	C132	03/03/22	TRUCK MANEUVERING PLAN WB-67 PULL IN				
8	3	C140	03/04/24	GRADING & DRAINAGE PLAN				
9	3	C150	03/04/24	EROSION & SEDIMENT CONTROL PLAN				
10	3	C160	03/04/24	UTILITY PLAN				
11	2	C170	10/07/22	LANDSCAPE PLAN				
12	1	C180	03/03/22	PHOTOMETRIC LIGHTING PLAN				
13	2	C500	10/07/22	SITE DETAILS				
14	1	C501	03/03/22	NYSDOT DETAILS				
15	1	C502	03/03/22	NYSDOT NOTES				
16	1	C510	03/03/22	STORM SEWER DETAILS				
17	1	C520	03/03/22	<b>EROSION &amp; SEDIMENT CONTROL DETAILS AND NOTE</b>				
18	1	C530	03/03/22	WATER DETAILS				
19	2	C540	03/04/24	SUBSURFACE DISPOSAL SYSTEM DETAILS				
20	1	C541	03/04/24	SUBSURFACE DISPOSAL SYSTEM DETAILS				
20	1	C550	03/03/22	LANDSCAPE DETAILS & NOTES				
20	1	C560	03/04/24	PUMP STATION DETAILS				



PER SECTION 185-6.F, MULTIPLE USES SHALL BE PERMITTED ON A SINGLE LOT; THEREFORE,

THE SINGLE FAMILY HOME AND ACCESSORY

APARTMENT TO THE AUTO REPAIR GARAGE ARE

ANTICIPATED TO COMPLY.

BULK TABLE 1 ACCESSORY BUILDING <sup>1</sup>		
REQUIREMENTS:	REQUIRED	PROPOSED
MINIMUM LOT AREA <sup>5</sup>	0.69 ACRES	4.52± ACRES
MINIMUM LOT WIDTH	150 FT	415± FT
MINIMUM LOT DEPTH	175 FT	287.0 FT
SETBACKS:		
MINIMUM YARD FRONT <sup>2</sup>	N/A	119.6 FT (NYS 9W) 147.0 FT (OLD POST RD)
MINIMUM YARD SIDE <sup>3</sup>	15 FT	9.0 FT <sup>6,7</sup>
MINIMUM YARD REAR <sup>3</sup>	5 FT	N/A
MINIMUM DISTANCE TO MAIN BUILDING	10 FT	318.1 FT
MAXIMUM PERCENTAGE IN YARD AREA4	10%	12% <sup>6,7</sup>
MAXIMUM HEIGHT	15 FT	2 STORY <sup>6,7</sup>
MAXIMUM LOT COVERAGE (BUILDING)	40%	4.1% (ALL BLDGS)
MAXIMUM IMPERVIOUS SURFACE	50%	30% (ENTIRE SITE)
NOTES:		

1 EXISTING ON-SITE APARTMENTS ARE ACCESSORY BUILDINGS TO THE PRINCIPAL USE. BULK REQUIREMENTS ARE PER FOR ACCESSORY BUILDINGS IN SECTION 185-15 AND EXISTING SINGLE-FAMILY DWELLINGS WITH EITHER PUBLIC SEWER OR PUBLIC WATER ONLY.

<sup>2</sup>PER SECTION 185-15.B, NO SUCH BUILDING SHALL PROJECT CLOSER TO THE FRONTING STREET THAN THE

FRONT OF THE MAIN BUILDING. <sup>3</sup>PER SECTION 185-15.A(2), SUCH BUILDING SHALL BE SET BACK AT LEAST FIVE FEET FROM ANY SIDE OR REAR LOT LINE.

<sup>4</sup>PER SECTION 185-15.A(3), SUCH BUILDING SHALL NOT OCCUPY MORE THAN 10% OF THE REQUIRED YARD AREA IN WHICH IT IS PROPOSED TO BE SITUATED. <sup>5</sup>MINIMUM LOT AREA FOR LOT BOUNDED BY TWO OR MORE STREETS.

EXISTING NON-CONFORMANCE VARIANCE REQUIRED. TOWN HAS STATED 15 FT SIDE WARD SETBACK APPLIES TO ACCESSORY STRUCTURE.

 $^{\prime}$  ZONING VARIANCE GRANTED ON 10/28/21 BY TOWN OF NEWBURGH ZONING BOARD OF APPEALS.

#### **BULK TABLE 2** ZONING DISTRICT: BUSINESS (B) ZONING DISTRICT / LHI OVERLAY "MOTOR VEHICLE SERVICE STATION AND PUBLIC GARAGE"

ONING REQUIREMENTS (B):	REQUIRED	PROPOSED
MINIMUM LOT AREA <sup>3</sup>	0.690 ACRES	4.52± ACRES
MINIMUM LOT WIDTH	100 FT	415± FT
MINIMUM LOT DEPTH	150 FT	287.0 FT
SETBACKS:		
MINIMUM YARD FRONT	40 FT	259.5 FT (U.S. RTE 9W) 202.2 FT. (OLD POST RD
MINIMUM YARD SIDE	15 FT	39.0 FT
MINIMUM YARD REAR	30 FT	N/A
PROPERTY LINE TO DRIVEWAY	10 FT	90.0 FT
PROPERTY LINE TO UNDERGROUND FUEL TANK	15 FT	154.5 FT
PROPERTY LINE TO PUMP ISLAND	15 FT	107.9 FT
PROPERTY LINE TO PARKED VEHICLES	10 FT	20.9 FT
DISTANCE TO MOTOR VEHICLE SERVE STATION1	1000 FT	900.0 FT <sup>4,5</sup>
MAXIMUM LOT COVERAGE (BUILDING)2	40%	4.1% (ALL BLDGS)
MAXIMUM IMPERVIOUS SURFACE	80%	30% (ENTIRE SITE)
MAXIMUM HEIGHT	35 FT	<35 FT

<sup>1</sup>IN NO INSTANCE SHALL A NEW MOTOR VEHICLE SERVICE STATION OR ANY OTHER ESTABLISHMENT DISPENSING GASOLINE BE PERMITTED TO BE ESTABLISHED WITHIN 1.000 FEET IN ANY DIRECTION FROM A LOT ON WHICH THERE IS AN EXISTING MOTOR VEHICLE SERVICE STATION OR OTHER ESTABLISHMENT DISPENSING GASOLINE.  $^2$ MAXIMUM LOT BUILDING COVERAGE IS 40% IF NO PUBLIC WATER OR SEWER AND 50% IF

PUBLIC WATER AND SEWER. <sup>3</sup>MINIMUM LOT AREA FOR LOT BOUNDED BY TWO OR MORE STREETS.

<sup>4</sup>EXISTING NON-CONFORMANCE VARIANCE REQUIRED.

ZONING VARIANCE GRANTED ON 10/28/21 BY TOWN OF NEWBURGH ZONING BOARD OF

ZONING DISTRICT: BUSINESS (B) ZONING DISTRICT / LHI OVERLAY "CONVENIENCE STORE WITH OR WITHOUT GASOLINE FILLING STATION"

ZONING REQUIREMENTS (B):	REQUIRED	PROPOSED
MINIMUM LOT AREA 1	0.459 ACRES	4.52± ACRES
MINIMUM LOT WIDTH	100 FT	415± FT
MINIMUM LOT DEPTH	125 FT	287.0 FT
SETBACKS:		
MINIMUM YARD FRONT	60 FT	80.0 FT (U.S. RTE 9W) 372.9 FT (OLD POST RD)
MINIMUM YARD SIDE	15 FT	17.0 FT
MINIMUM YARD REAR	30 FT	N/A
PROPERTY LINE TO DRIVEWAY	10 FT	90.0 FT
PROPERTY LINE TO UNDERGROUND FUEL TO	ANK 15 FT	154.5 FT
PROPERTY LINE TO PUMP ISLAND	15 FT	107.9 FT
PROPERTY LINE TO PARKED VEHICLES	10 FT	20.9 FT
DISTANCE TO MOTOR VEHICLE SERVE STATIC	N <sup>2</sup> 1000 FT	900.0 FT <sup>4</sup>
MAXIMUM LOT COVERAGE (BUILDING)3	40%	4.1% (ALL BLDGS)
MAXIMUM IMPERVIOUS SURFACE	80%	30% (ENTIRE SITE)
MAXIMUM HEIGHT	35 FT	1 STORY

<sup>1</sup>MINIMUM LOT AREA FOR LOT BOUNDED BY ONE STREET.

<sup>2</sup>IN NO INSTANCE SHALL A NEW MOTOR VEHICLE SERVICE STATION OR ANY OTHER ESTABLISHMENT DISPENSING GASOLINE BE PERMITTED TO BE ESTABLISHED WITHIN 1,000 FEET IN ANY DIRECTION FROM A LOT ON WHICH THERE IS AN EXISTING MOTOR VEHICLE SERVICE STATION OR OTHER ESTABLISHMENT DISPENSING

<sup>3</sup>MAXIMUM LOT BUILDING COVERAGE IS 40% IF NO PUBLIC WATER OR SEWER AND 50% IF PUBLIC WATER AND SEWER.

<sup>4</sup>ZONING VARIANCE GRANTED ON 10/28/21 BY TOWN OF NEWBURGH ZONING BOARD OF APPEALS.

(888) 539-9073

NEW WINDSOR NY 12553

#### **ADDRESS**: 5200 ROUTE 9W,

NEWBURGH, NY 12550 **TAX MAP INFORMATION:** 

### MUNICIPALITY OF NEWBURGH

SECTION 43, BLOCK 5, LOT SITE CIVIL ENGINEER:

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C. 21 FOX STREET, POUGHKEEPSIE, NY 12601

# **SURVEYOR:**

HERITAGE LAND SURVEYING, P.C.

PHONE: (845) 454-3980

DARREN J. STRIDIRON, PROFESSIONAL LAND SURVEYOR P.O. BOX 579 PLATTEKILL, NEW YORK 12568 PHONE: (845) 562-4148

# **PARKING SPACE CALCULATIONS:**

TOTAL SPACES PROVIDED ON SITE = 45 (W/INCLUDES 3 INTERIOR BAY SPACES)

CONVENIENCE STORE/WITH GASOLINE FILLING STATION: REQUIRED = 20 SPACES

PROVIDED\* = 24 SPACES (12 SPACES + 12 SPACES AT THE PUMPS)

PER SECTION 185-13.C(1)(b): REQUIRED PARKING FOR A RETAIL STORE, SHOPPING CENTER, AND PERSONAL SERVICE STORE IS 1 PER 150 SQUARE FEET OF GROSS LEASABLE FLOOR SPACE.

\*THE TOTAL SPACES PROVIDED INCLUDES THE 12 SPACES AT THE FUEL PUMPS.

(2,940 SQUARE FEET X 1 SPACE PER 150 SQUARE FEET = 20)

AUTO REPAIR GARAGE:

REQUIRED (MIN.) = 8 SPACES PROVIDED = 19 SPACES (3 INTERIOR BAYS + 16 SPACES = 19)

PER SECTION 185-13.C(1)(b): REQUIRED PARKING FOR A REPAIR GARAGE IS PARKING SPACES FOR ALL VEHICLES BEING SERVICED AT ANY 1 PERIOD OF TIME, PLUS A MINIMUM OF S ADDITIONAL SPACES.

RESIDENTIAL BUILDING: (ACCESSORY BUILDING) REQUIRED = 2 SPACES

PROVIDED = 2 SPACES

PER SECTION 185-13.C(1)(a): FOR ONE RESIDENTIAL SINGLE FAMILY UNIT, 2 SPACES SHALL BE PROVIDED.

# **OWNER ENDORSEMENT** TOWN OF NEWBURGH . NEW YORK THE UNDERSIGNED APPLICANT/OWNER OF THE PROPERTY HEREON STATES THAT THE OWNER IS FAMILIAR WITH THIS MAP, ITS CONTENTS, LEGENDS AND HEREBY CONSENTS TO ALL SAID TERMS, AND CONDITIONS STATED HEREON, INCLUDING APPROVAL

TOWN PLANNING B NEWBURGH, NEW SITE PLAN APPRO	YORK
TILE NO:PROJECT NAME:	
PROJECT LOCATION:  APPLICANT:  DEFICIALLY APPROVED at the Planning Boomeeting held the day of  PLANNING CHAIRMAN:  DESIGNEE:  DATE SIGNED:	ard , 20

# FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

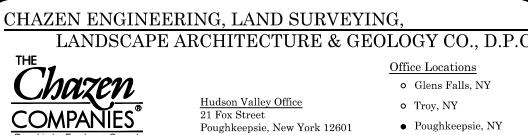
Dig Safely. New York ☐ Call Before You Dig ■ Wait The Required Time ☐ Confirm Utility Response
☐ Respect The Marks Dig With Care 800-962-7962

ORIGINAL SCALE IN INCHES

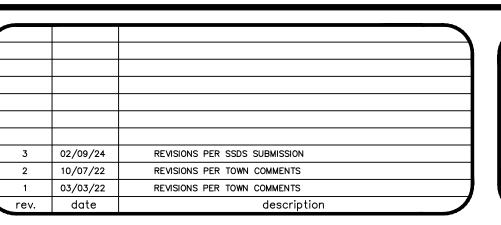
ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT, OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.







GEOLG	) G I CO., D.I .C.		
Off	ice Locations		
<u>O11</u>	ice Locations		
0	Glens Falls, NY		
0	Troy, NY		
<b>6</b> 01 •	Poughkeepsie, NY		3
0	White Plains, NY		2
0	New York City, NY	/	1
			rev.
			-



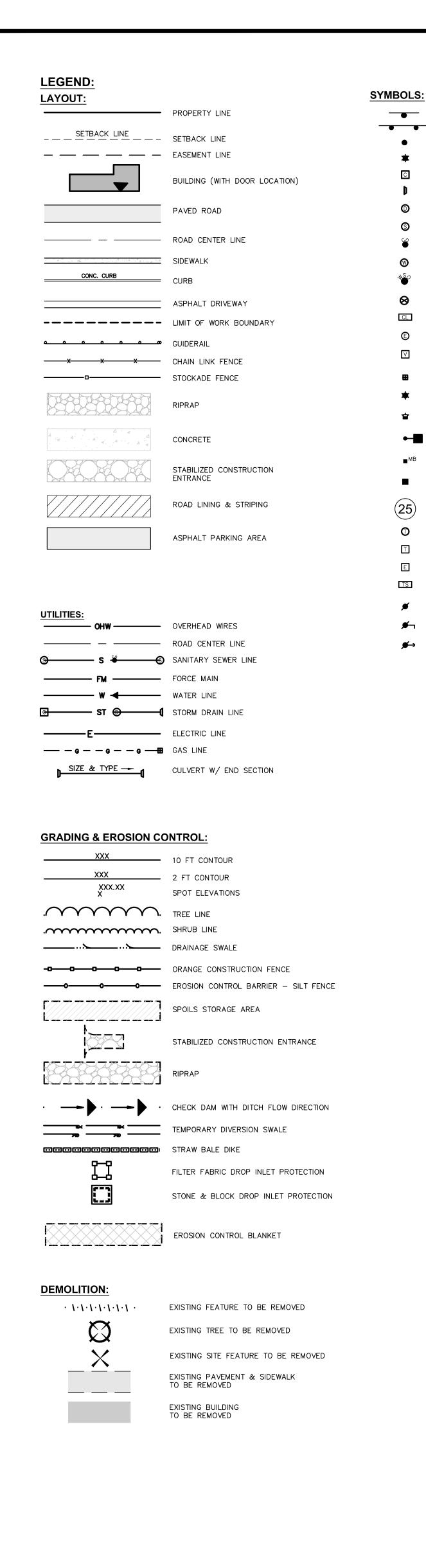
GAS LAND 5200 ROUTE 9W

TITLE SHEET

01/20/22 AS SHOWN project no. 81912.00 G001

SPL | CPL

TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK



### **DEMOLITION NOTES:**

DISCONNECTED AND CAPPED.

GRADES AND CONTOURS.

BOLLARD

CLEANOUT

WATER VALVE

CONTROL BOX

GAS VALVE

LIGHT POLE

MAILBOX

MONUMENT

PARKING COUNT

UTILITY POLE

TELEPHONE MANHOLE

TELEPHONE PEDESTAL

ELECTRIC TRANSFORMER

UTILITY POLE W/ LIGHT

UTILITY POLE W/ GUY WIRE

TRAFFIC SIGNAL CONTROL BOX

ELECTRIC MANHOLE

LIGHT WALL PACK

POST AND LUMINAIRE

CABLE TV PEDESTAL

WELL

LIGHTED BOLLARD

FLARED END SECTION

DRAINAGE MANHOLE

SANITARY MANHOLE

WATER SHUT OFF VALVE

CATCH BASIN

1. REFER TO REQUIREMENTS OUTLINED IN THE EROSION & SEDIMENTS CONTROL PLANS & NOTES PRIOR TO COMMENCEMENT OF WORK.

- 2. BUILDING/STRUCTURE TO BE DEMOLISHED ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE NOT TO BE DEMOLISHED AS PART OF THIS WORK. PRIOR TO DEMOLISHING ANY BUILDINGS/STRUCTURES, THE CONTRACTOR SHALL PERFORM A PRE-DEMOLITION SURVEY IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS GOVERNING THE DISPOSAL OF SOLID WASTE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS BY THE AUTHORITY HAVING JURISDICTION.
- 3. CONFORM TO APPLICABLE CODE FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND HAULING, DISPOSAL
- 4. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
- 5. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.

6. NOTIFY ADJACENT OWNERS OF WORK THAT MAY AFFECT THEIR PROPERTY, POTENTIAL

7. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING

NOISE, UTILITY OUTAGE, OR DISRUPTION. COORDINATE WITH OWNER.

- AND SHORING. 8. LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA. DISCONNECT AND SEAL OR CAP OFF UTILITY SERVICES THAT WILL BE AFFECTED BY THIS PROJECT. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. VERIFY THAT UTILITIES HAVE BEEN
- 9. DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL MANNER.
- 10. PROTECT EXISTING FEATURES THAT ARE NOT TO BE DEMOLISHED. 11. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE
- ACCESSES. 12. MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT
- ROADWAYS, OR SIDEWALKS WITHOUT PERMITS. COORDINATE W/ AUTHORITY HAVING
- 13. CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION. 14. ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE
- 15. FIELD VERIFY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED ON DEMOLITION PLAN TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED. 16. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM
- INTERFERENCE WITH SELECTIVE DEMOLITION OPERATIONS. 17. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO
- ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA. 18. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT
- HE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION, SUCH AS CAUSING ICING, FLOODING, AND TRANSPORTING POLLUTANTS. 19. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON
- 20. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE DEMOLITION. 21. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. ALL DEBRIS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE AT A FACILITY APPROVED
- 22. REMOVAL OF ALL ELECTRICAL SERVICE SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. COORDINATE WITH LOCAL UTILITY HAVING JURISDICTION.

ON-SITE. DO NOT BURN DEMOLISHED MATERIALS ON-SITE.

TO RECEIVE THE DEBRIS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE

- 23. ANY DEMOLITION OF ANY STRUCTURES ON THE SITE WILL REQUIRE A PERMIT FROM THE BUILDING DEPARTMENT.
- 24. ANY NECESSARY TREE CLEARING WILL OCCUR BETWEEN NOVEMBER 1ST AND MARCH 31ST TO AVOID DIRECT OR INDIRECT TAKE OF THE BAT SPECIES, AS DURING THIS TIME, THE BATS WOULD BE HIBERNATING AND NOT PRESENT ONSITE.

### **WELL ABANDONMENT NOTES:**

ADJACENT SURFACES AND AREAS.

- 1. THE ABANDONMENT AND/OR DECOMMISSIONING OF ALL EXISTING WELLS MUST BE IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN AWWA STANDARD A100.
- 2. ALL PUMPS, WIRING, AND PIPING SHALL BE PULLED OUT OF THE EXISTING WELL.
- 3. WELLS TO BE ABANDONED SHALL: (a) BE SEALED TO PREVENT UNDESIRABLE EXCHANGE OF WATER FROM ONE AQUIFER TO ANOTHER: (b) BE FILLED WITH SODIUM BENTONITE SLURRY; (c) WHEN FILLING WITH SODIUM BENTONITE SLURRY, THIS MATERIAL SHALL BE APPLIED TO THE WELL HOLE THROUGH A PIPE, TREMIE, OR
- 4. AFTER COMPLETION OF GROUTING PROCEDURE, THE CONTRACTOR SHALL EXCAVATE AROUND THE WELL CASING AND CUT THE CASING TO A DEPTH OF FOUR FEET BELOW EXISTING GRADE. A CONCRETE CAP MEASURING APPROXIMATELY 2-FOOT IN DIAMETER WITH A THICKNESS OF 1-FOOT, IS TO BE PLACED ON TOP OF THE CASING. REMAINDER OF EXCAVATION SHALL BE BACKFILLED WITH A SUTIABLE BACKFILL MATERIAL.
- 5. WELLS TO BE ABANDONED SHALL BE CERTIFIED BY A NYS PROFESSIONAL ENGINEER

### SITE PLAN NOTES:

### **GENERAL CONSTRUCTION:**

LINES OR PUBLIC RIGHT-OF-WAY.

MINIMUM LIMIT OF EXCAVATION.

- 1. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
- 2. ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES.
- 3. ALL SAWCUT LINES SHALL BE PARALLEL AND CURVILINEAR TO EXISTING OR PROPOSED CURBING AND SHALL BE A CONSTANT DISTANCE OF 18" MIN AWAY. 4. ALL ARCHITECTURE IS SUBJECT TO PLANNING BOARD REVIEW.
- 5. NOTIFY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
- 6. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW FROM THE ENGINEER.
- 7. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
- 8. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES. 9. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY
- 10. ALL EXISTING LAWN AREA, CURBING, PAVING, SIDEWALKS, CULVERTS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR EXCAVATION OPERATIONS SHALL B REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED I CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AOBE). MAILBOXES. SIGN POSTS. ETC SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOINT. REMOVE PAVEMENT AND REPLACE TO SAW CUT LINE, SAW CUT IN STRAIGHT LINE TO POINT NEEDED TO BLEND GRADE, REMOVE LAWN AND REPLACE TO
- 11. THE HOURS OF OPERATION OF THE CONVENIENCE STORE AND GAS STATION SHALL BE LIMITED TO 24 HOURS.

#### BUILDING DIMENSIONS TO BE TAKEN FROM ARCHITECTURAL BUILDING PLANS. NOTIFY THE ENGINEER OF ANY DEVIATION FROM CONDITIONS SHOWN ON THIS PLAN.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.

DRAWINGS.

- NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE GRADED, COMPACTED, AND IS READY FOR PAVING. SUBBASE MATERIAL SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
- 2. SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008. CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE
- 3. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH VIBRATING SCREED. PLACEMENT IN
- 4. PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE DAY'S
- 5. TACK COAT WHEN SPECIFIED OR CALLED OUT ON THE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATION SHALL CONFORM WITH THE FOLLOWING: A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90 ASPHALT EMULSION FOR TACK COAT OF THE NEW YORK STATE DEPARTMENT O TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, SHALL BE APPLIED IN ACCORDANCE WITH SECTION 407 -TACK COAT SHALL BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
- B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM. C. APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES & AND SURFACES OF CURBS GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING. D. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT.
- 6. AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.

STRIPE PAVEMENT AS INDICATED ON THE PLANS AND/OR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.

2. COLOR: DRIVE LANE DIVIDERS - WHITE OR AOBE NO PARKING ZONE WARNINGS - WHITE OR AOBE PARKING DIVIDERS - WHITE OR AOBE WALKING LINES - WHITE OR AOBE HANDICAP PARKING LINES & SYMBOL - BLUE

INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.

# **WATER SYSTEM NOTES:**

- 1. "CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE TOWN OF NEWBURGH WATER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH WATER DEPARTMENT. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDOH AND THE TOWN OF NEWBURGH."
- 2. ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CEMENT LINED CLASS 52 DUCTILE IRON PIPE CONFORMING TO ANSI\AWWA C151\A21.51 FOR DUCTILE IRON PIPE, LATEST REVISION. JOINTS SHALL BE EITHER PUSH-ON OR MECHANICAL JOINT AS REQUIRED.
- 3. THRUST RESTRAINT OF THE PIPE SHALL BE THROUGH THE USE OF JOINT RESTRAINT. THRUST BLOCKS ARE NOT ACCEPTABLE. JOINT RESTRAINT SHALL BE THROUGH THE USE OF MECHANICAL JOINT PIPE WITH RETAINER GLANDS. ALL FITTINGS AND VALVES SHALL ALSO BE INSTALLED WITH RETAINER GLANDS FOR JOINT RESTRAINT. RETAINER GLANDS SHALL BE EBBA IRON MEGALUG SERIES 1100 OR APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINED JOINT PIPE IS ACCEPTABLE WITH PRIOR APPROVAL OF THE WATER DEPARTMENT.
- 4. ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON, MECHANICAL JOINT, CLASS 250 AND CONFORM TO ANSI\AWWA C110\A21.10 FOR DUCTILE AND GRAY IRON FITTINGS OR ANSI\AWWA C153\A21.53 FOR DUCTILE IRON COMPACT FITTINGS, LATEST REVISION.
- 5. ALL VALVES 4 TO 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI\AWWA C509 SUCH AS MUELLER MODEL A-2360-23 OR APPROVED EQUAL. ALL GATE VALVES SHALL OPEN LEFT (COUNTERCLOCKWISE).
- 6. TAPPING SLEEVE SHALL BE MECHANICAL JOINT SUCH AS MUELLER H-615 OR EQUAL. TAPPING VALVES 4TO 12 INCHES.SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI\AWWA C509 SUCH AS MUELLER MODEL T-2360-19 OR APPROVED EQUAL. ALL TAPPING SLEEVES AND VALVES SHALL BE TESTED TO 150 PSI MINIMUM; TESTING OF THE TAPPING SLEEVE AND VALVE MUST BE WITNESSED AND ACCEPTED BY THE TOWN OF NEWBURGH WATER DEPARTMENT PRIOR TO CUTTING INTO THE PIPE.
- 7. ALL HYDRANTS SHALL BE CLOW-EDDY F-2640 CONFORMING TO AWWA STANDARD C- 502, LATEST REVISION. ALL HYDRANTS SHALL INCLUDE A 5 1/4 INCH MAIN VALVE OPENING, TWO 2 1/2 INCH DIAMETER NPT HOSE NOZZLES, ONE 4 INCH NPT STEAMER NOZZLE, A 6 INCH DIAMETER INLET CONNECTION AND A 1 1/2 INCH PENTAGON OPERATING NUT. ALL HYDRANTS SHALL OPEN LEFT (COUNTER-CLOCKWISE). HYDRANTS ON MAINS TO BE DEDICATED TO THE TOWN SHALL BE EQUIPMENT YELLOW. HYDRANTS LOCATED ON PRIVATE PROPERTY SHALL BE RED.
- 8. ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING, CORPORATION STOPS SHALL BE MUELLER H-15020N FOR 3/4 AND 1 INCH, MUELLER H-15000N OR 8-25000N FOR 1AND 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1502-2N FOR 3/4 AND 1 INCH AND MUELLER 8-25204N FOR 1 1/2 AND 2 INCH SIZES. CURB BOXES SHALL BE MUELLER H-10314N FOR 3/4 AND 1 INCH AND MUELLER H-10310N FOR 1 1/2 AND 2 INCH SIZES.
- 9. ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT.
- 10. THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTION AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT. PRIOR TO PUTTING THE WATER MAIN IN SERVICE SATISFACTORY SANITARY RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT. THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE WATER DEPARTMENT.
- 11. THE FINAL LAYOUT OF THE PROPOSED WATER AND/OR SEWER CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER AND OR SEWER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER AND/OR SEWER CONNECTION UNTIL A FINAL LAYOUT IS APPROVED BY THE RESPECTIVE DEPARTMENT.

### **LANDSCAPING NOTES:**

1. SEE SHEET C550 FOR ALL LANDSCAPING NOTES.

#### **SITE LIGHTING NOTES:**

 SEE SHEET C180 FOR ALL LIGHTING NOTES. 2. SEE SHEET C550 FOR LIGHTING DETAILS.

#### **UTILITY PLAN NOTES:**

### **GENERAL CONSTRUCTION:**

- 1. ALL UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 2. ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION IS TO PROCEED
- 3. SEWER MAINS IN RELATION TO WATER MAINS: WHERE POSSIBLE, SEWERS SHALL BE LAID AT LEAST 10 (TEN) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE 18 (EIGHTEEN) INCHES BETWEEN TOP OF SEWER AND BOTTOM OF THE WATER MAIN AT UTILIT CROSSINGS. WHEN NOT POSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, SEWER PIPE SHALL BE PRESSURE RATED AND TESTED @ 150psi, 10 (TEN) FEET ON EACH SIDE OF THE WATER MAIN BEING CROSSED.
- 4. ALL PROPOSED UTILITIES SHALL TERMINATE 5 FEET FROM ANY PROPOSED BUILDING FACE. CONTRACTOR TO COORDINATE WITH BUILDING PLANS FOR ANY CONNECTIONS.
- 5. ALL STORM SEWER SHALL BE SMOOTH INTERIOR HDPE UNLESS OTHERWISE SPECIFIED. 6. ALL GRAVITY SANITARY SEWER SHALL BE SDR 35 PVC UNLESS OTHERWISE SPECIFIED.
- 7. ALL WATER PIPES LESS THAN, OR EQUAL TO, 2-INCHES SHALL BE K-COPPER UNLESS OTHERWISE SPECIFIED.
- 8. CONTRACTOR TO VERIFY STATUS OF ALL UTILITY SERVICES PRIOR TO INTERRUPTION.
- 9. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALI JTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
- 10. BEFORE CONSTRUCTING LINES TO CONNECT TO EXISTING UTILITIES, VERIFY EXISTING UTILITY INVERTS AND NOTIFY THE ENGINEER IF ANY VARIATION FROM THE PLAN IS
- 11. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE FOR THE
- DURATION OF THE WORK. 12. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED
- CONDITIONS. 13. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE
- 14. IF ROCK REMOVAL BY BLASTING IS REQUIRED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

#### UNDERGROUND TANKS, CONTAMINATED SOIL, AND PIPING NOTES:

1. EXISTING UNDERGROUND TANKS, CONTAMINATED SOIL, AND PIPING TO BE REMOVED IN ACCORDANCE WITH FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS.

### **GRADING NOTES:**

REGISTER OF HISTORIC PLACES.

- 1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL
- 2. IF ROCK IS ENCOUNTERED DURING CONSTRUCTION & REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- 3. ALL BLASTING OPERATIONS WILL ADHERE TO NEW YORK STATE AND LOCAL AUTHORITY ORDINANCES GOVERNING THE USE OF EXPLOSIVES. THE STATE REGULATIONS ARE
- CONTAINED IN 12 NYCRR 39 AND INDUSTRIAL CODE RULE 753. 4. STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE STORED AND REUSED IN LAWN AND PLANTING AREAS ONLY. TOPSOIL AND SEED ALL
- AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN. 5. BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. ORNAMENTAL TREES, SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND RE-PLANTED IN AS GOOD
- AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. 6. ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.

A CONDITION AS THEY WERE BEFORE THEIR REMOVAL. ANY DAMAGED TREES, SHRUBS,

- 7. REMOVE ALL VEGETATION, TREES, STUMPS, GRASSES, ORGANIC SOILS, DEBRIS AND DELETERIOUS MATERIALS WITHIN THE AREAS SLATED FOR CONSTRUCTION.
- 8. IF PREVIOUSLY UNKNOWN CULTURAL, ARCHEOLOGICAL, OR HISTORIC REMAINS OR ARTIFACTS ARE DISCOVERED IN THE COURSE OF CONSTRUCTION OF THIS PROJECT, THE PROJECT SPONSORS SHALL SUSPEND CONSTRUCTION OPERATIONS IN THE PERTINENT AREA AND SHALL NOTIFY THE PROJECT ENGINEER. CONSTRUCTION IN THAT AREA SHALL RESUME ONLY AFTER COMPLETION OF FEDERAL, TRIBAL, AND STATE COORDINATION TO DETERMINE WHETHER PROTECTION OR RECOVERY OF THE REMAINS IS WARRANTED, OR WHETHER THE SITE IS ELIGIBLE FOR LISTING IN THE NATIONAL

FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

designed | checked

81912.00

G002

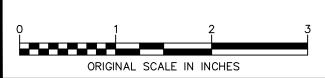
project no.

CPL

scale 01/20/22 1"=20'

**GAS LAND 5200 ROUTE 9W** 

NOTES & LEGENDS



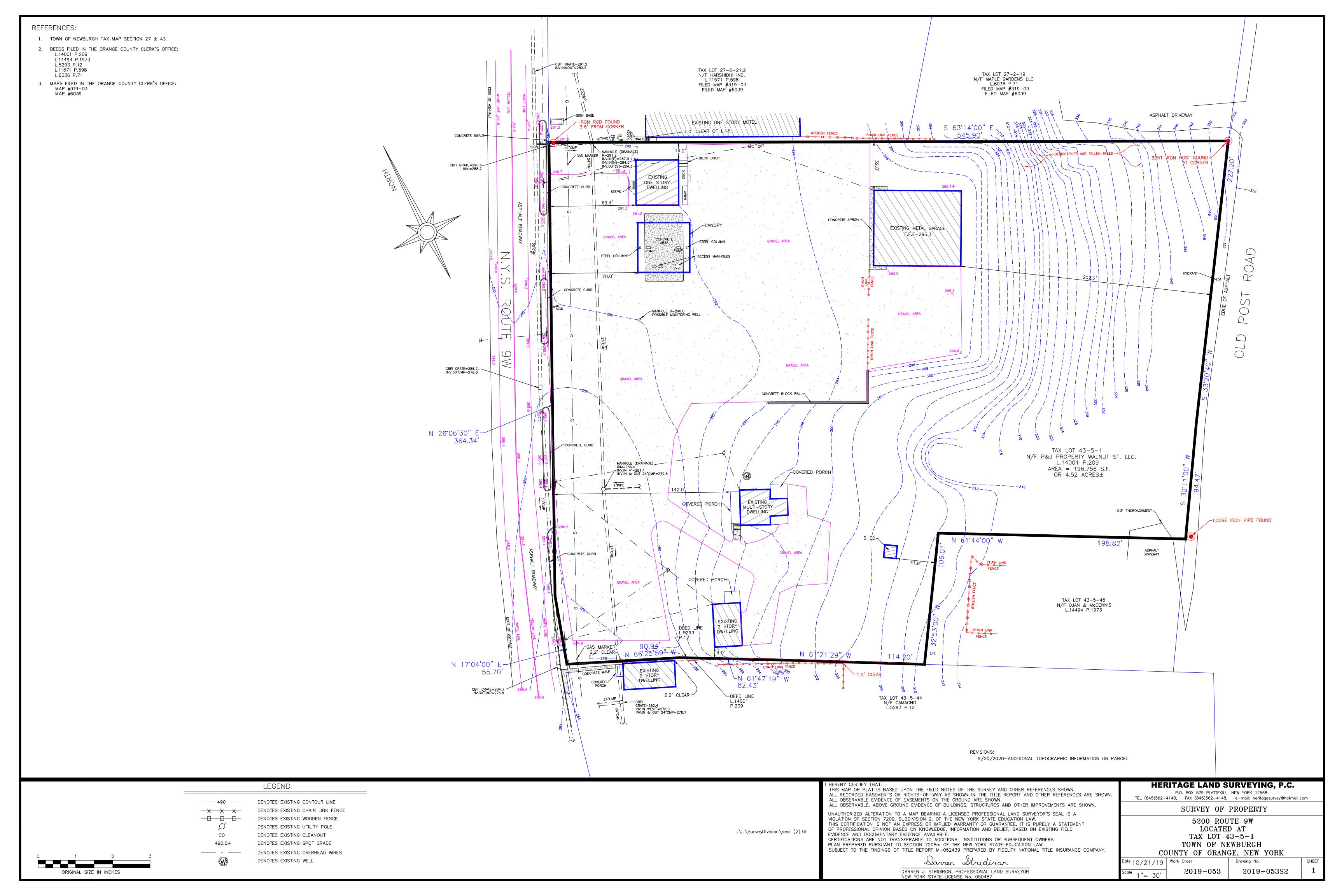
ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT, OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IN NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

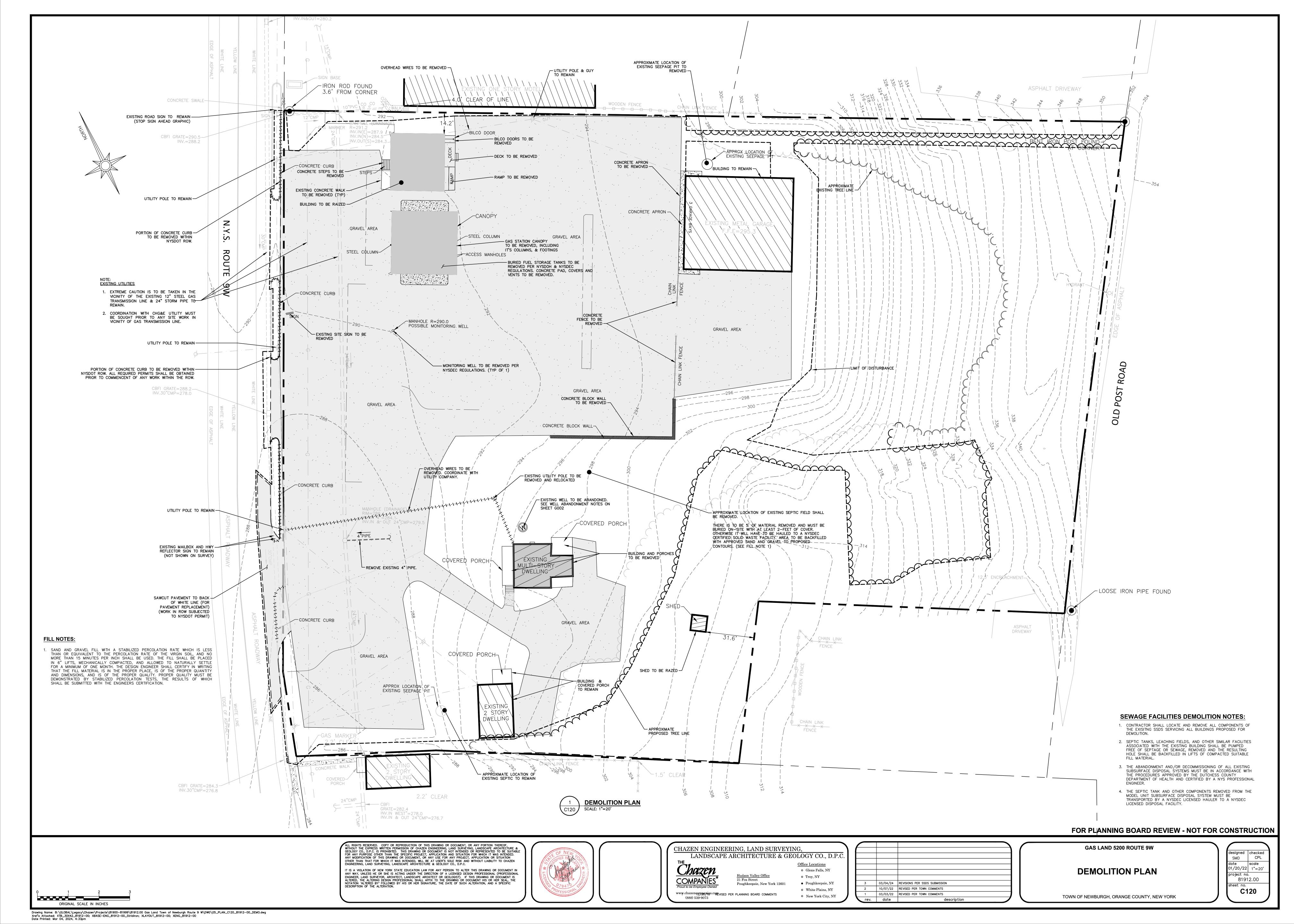


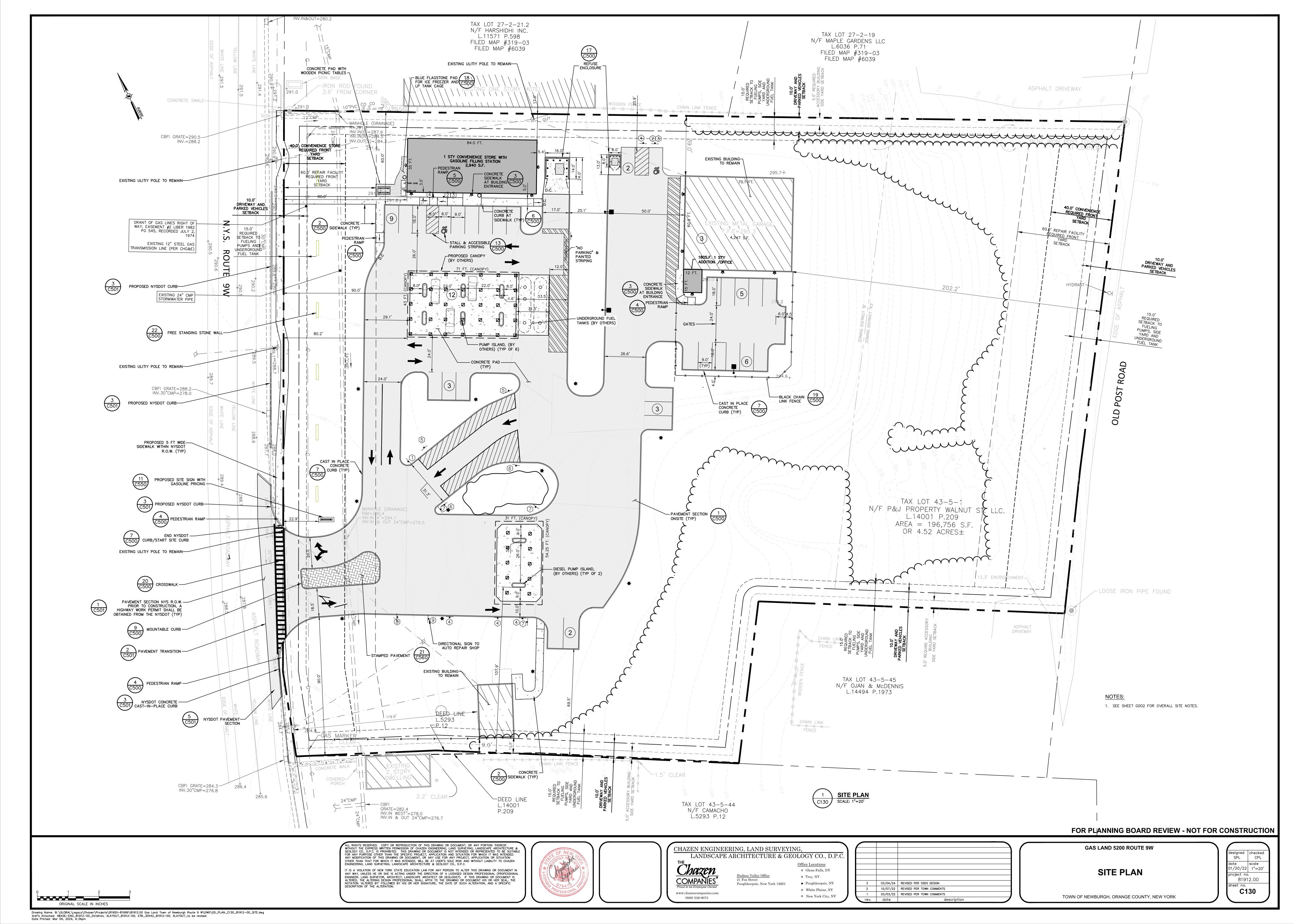


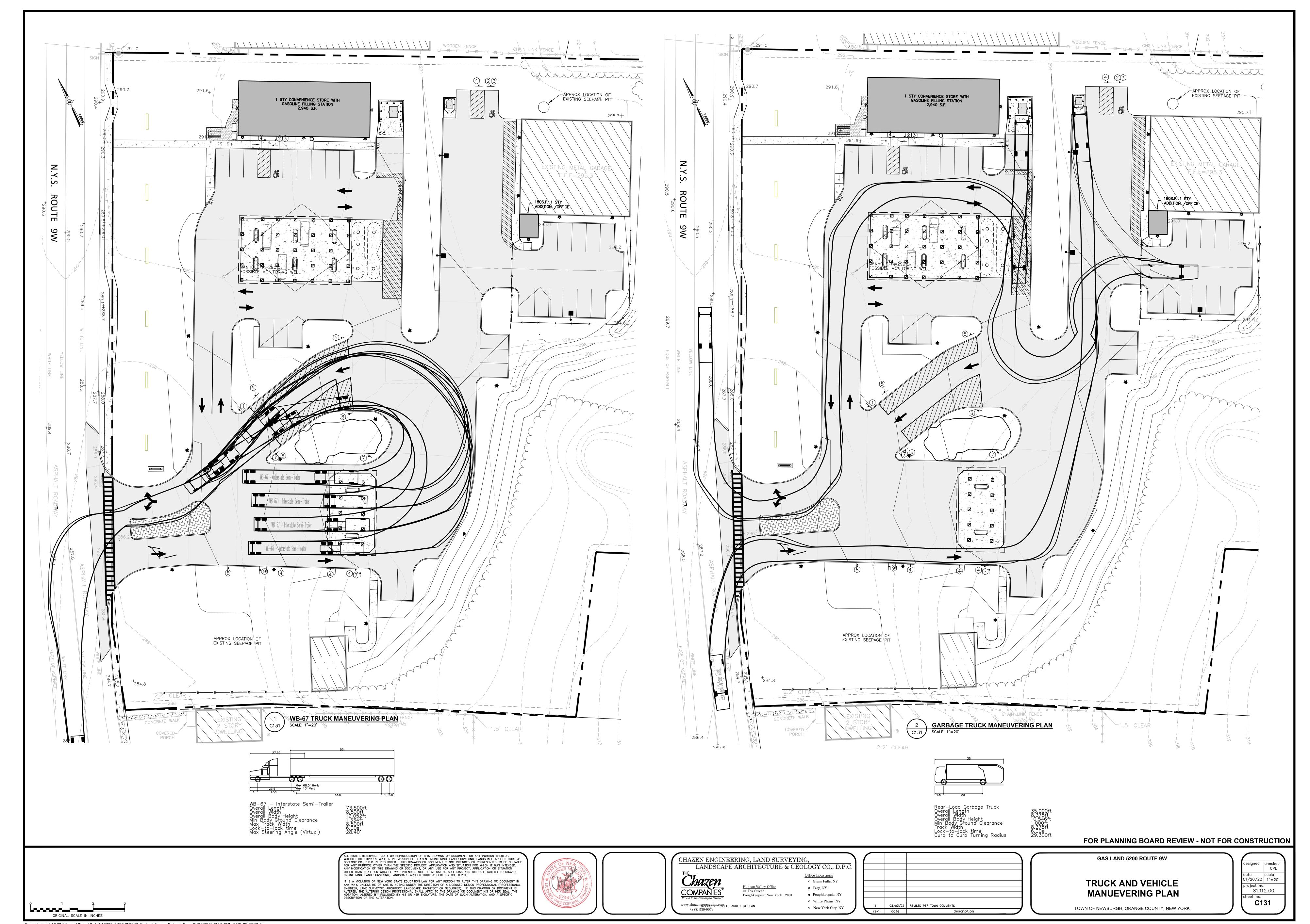
(888) 539-9073

CHAZEN ENGINEERING, LAND SURVEYING,

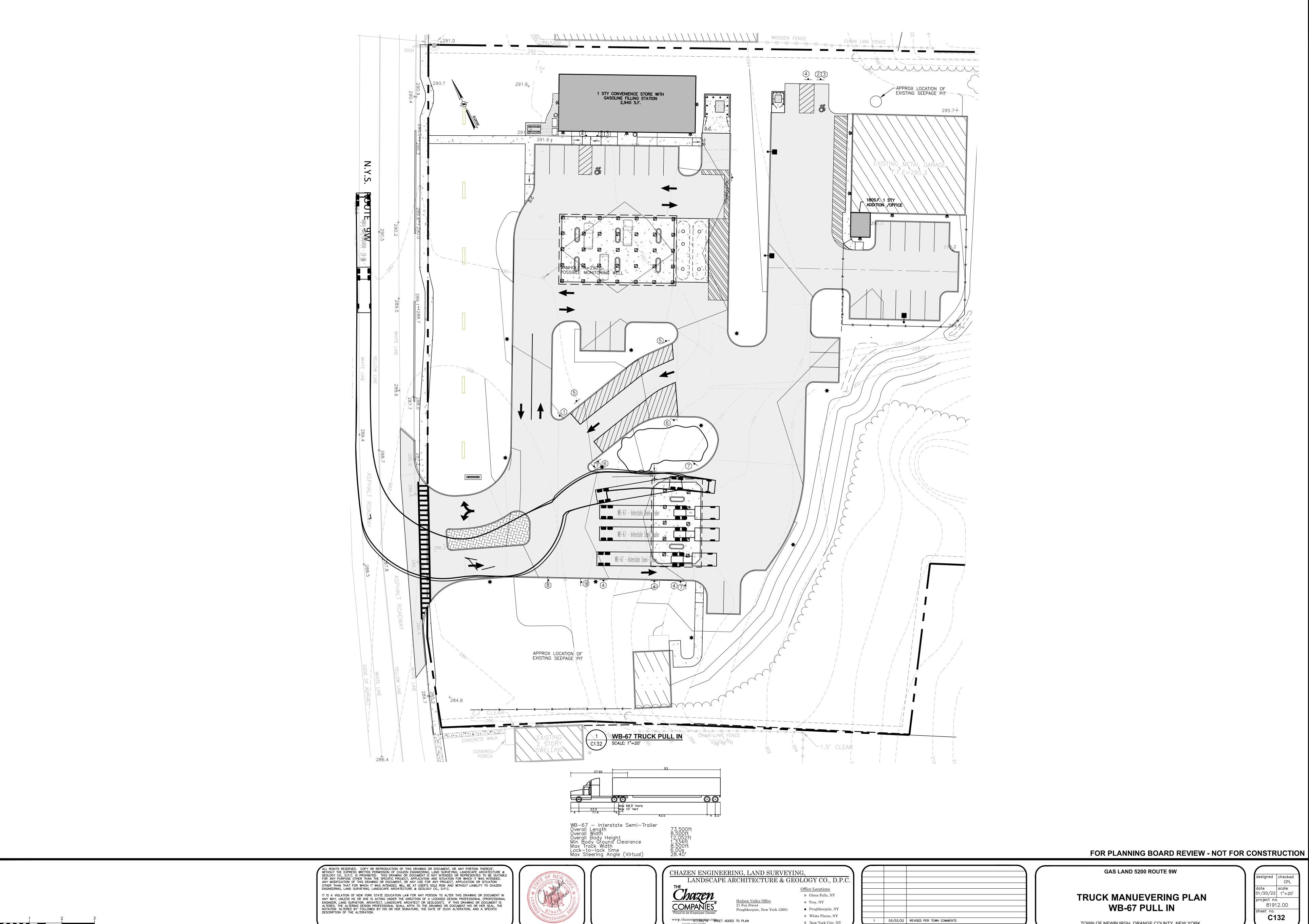








Drawing Name: B:\GLOBAL\Legacy\Chazen\Projects\81900-81999\81912.00 Gas Land Town of Newburgh Route 9 W\DWG\05\_PLAN\_C131\_81912-00\_TRUCK.dwg
Xref's Attached: XBASE-ENG\_81912-00\_Stridiron; XLAYOUT\_81912-00; XTB\_30X42\_81912-00; XENG\_81912-00
Date Printed: Mar 04, 2024, 4:35pm



Drawing Name: B:\GLOBAL\Legacy\Chazen\Projects\81900-81999\81912.00 Gas Land Town of Newburgh Route 9 W\DWG\05\_PLAN\_C132\_81912-00\_TRUCK .dwg
Xref's Attached: XBASE-ENG\_81912-00\_Stridiron; XLAYOUT\_81912-00; XTB\_30X42\_81912-00; XENG\_81912-00
Date Printed: Mar 04, 2024, 4:35pm

\_\_\_\_

ORIGINAL SCALE IN INCHES

New York City, NY

(888) 539-9073

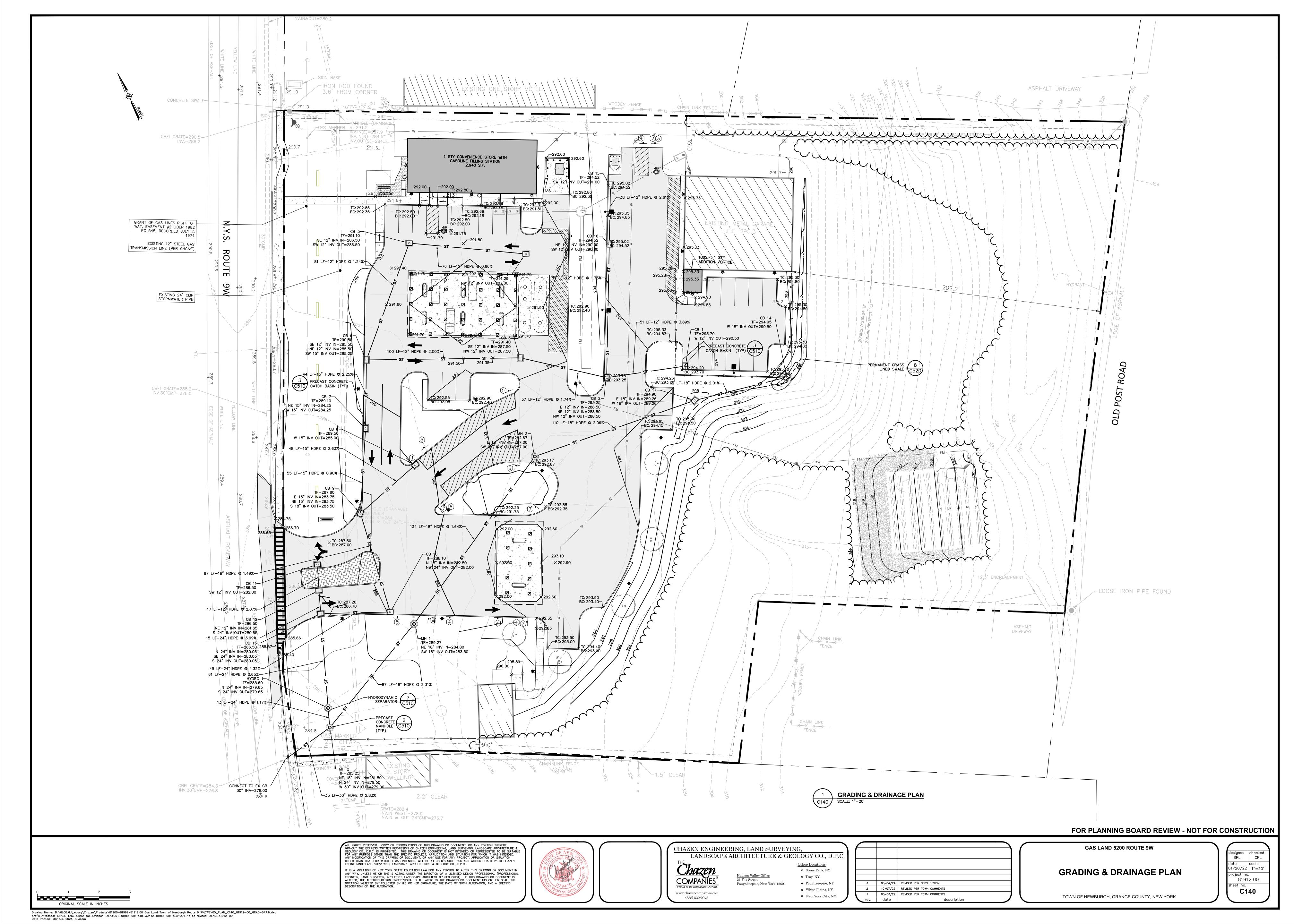
1 03/03/22 REVISED PER TOWN COMMENTS rev. date

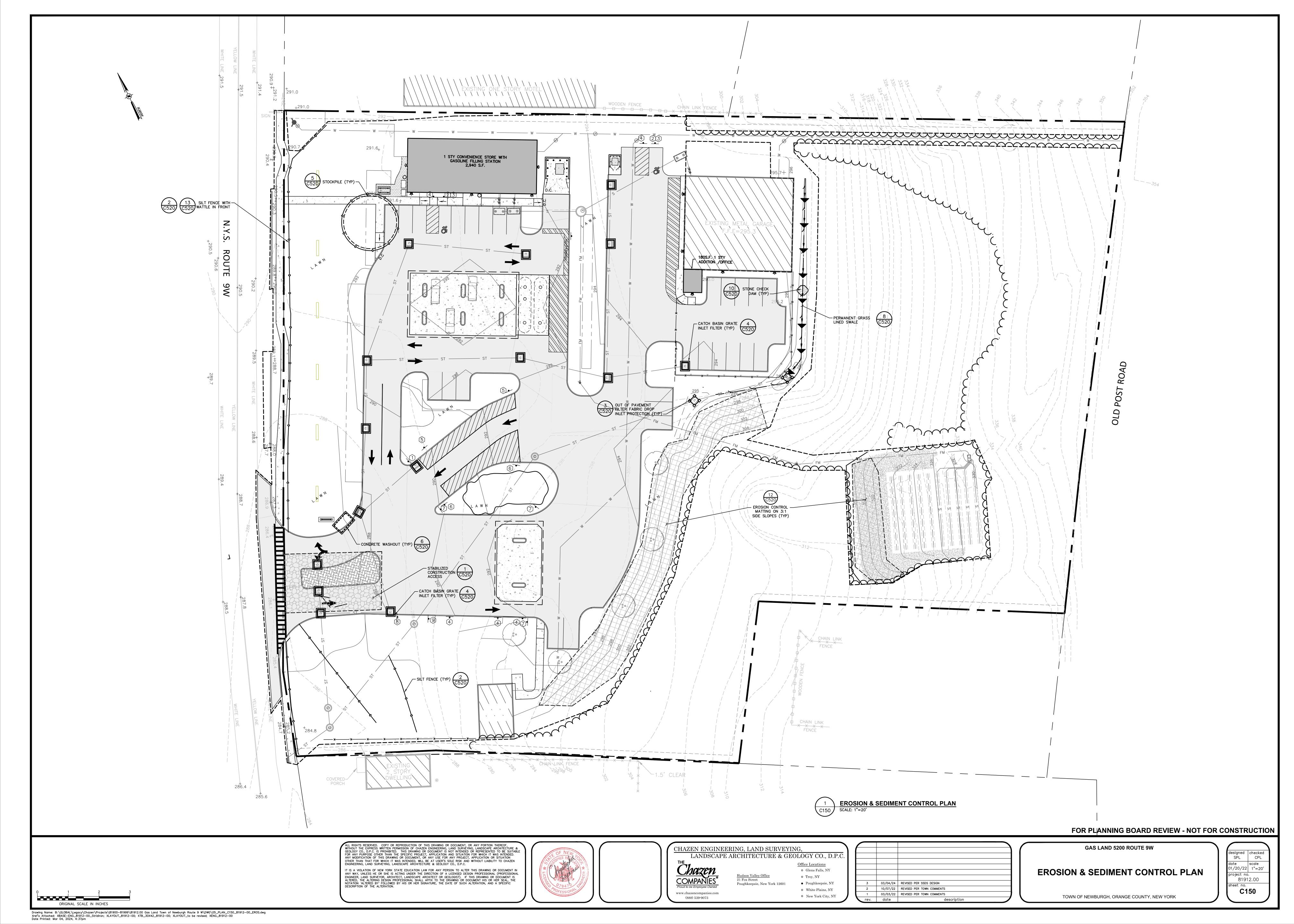
TRUCK MANUEVERING PLAN

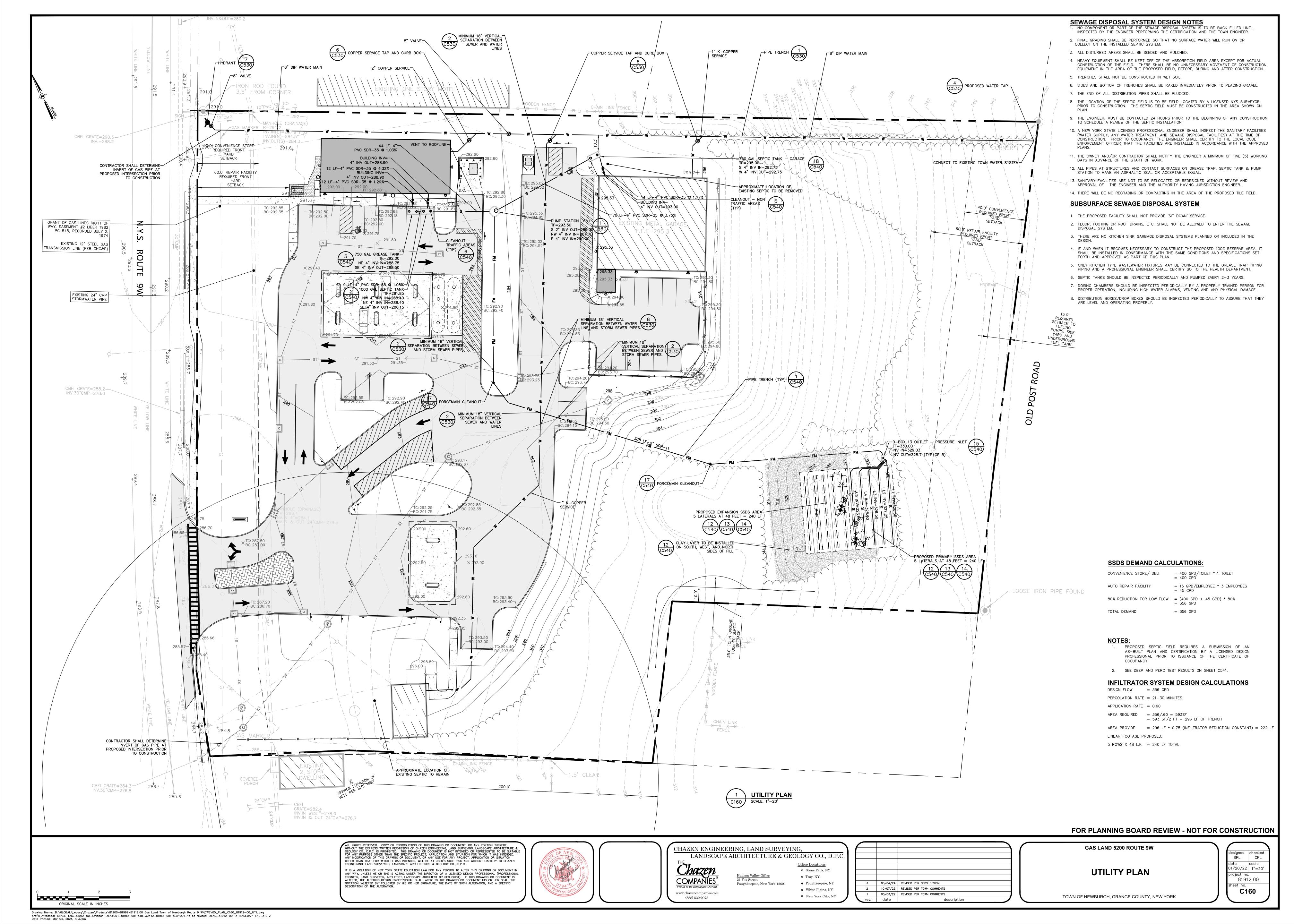
TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

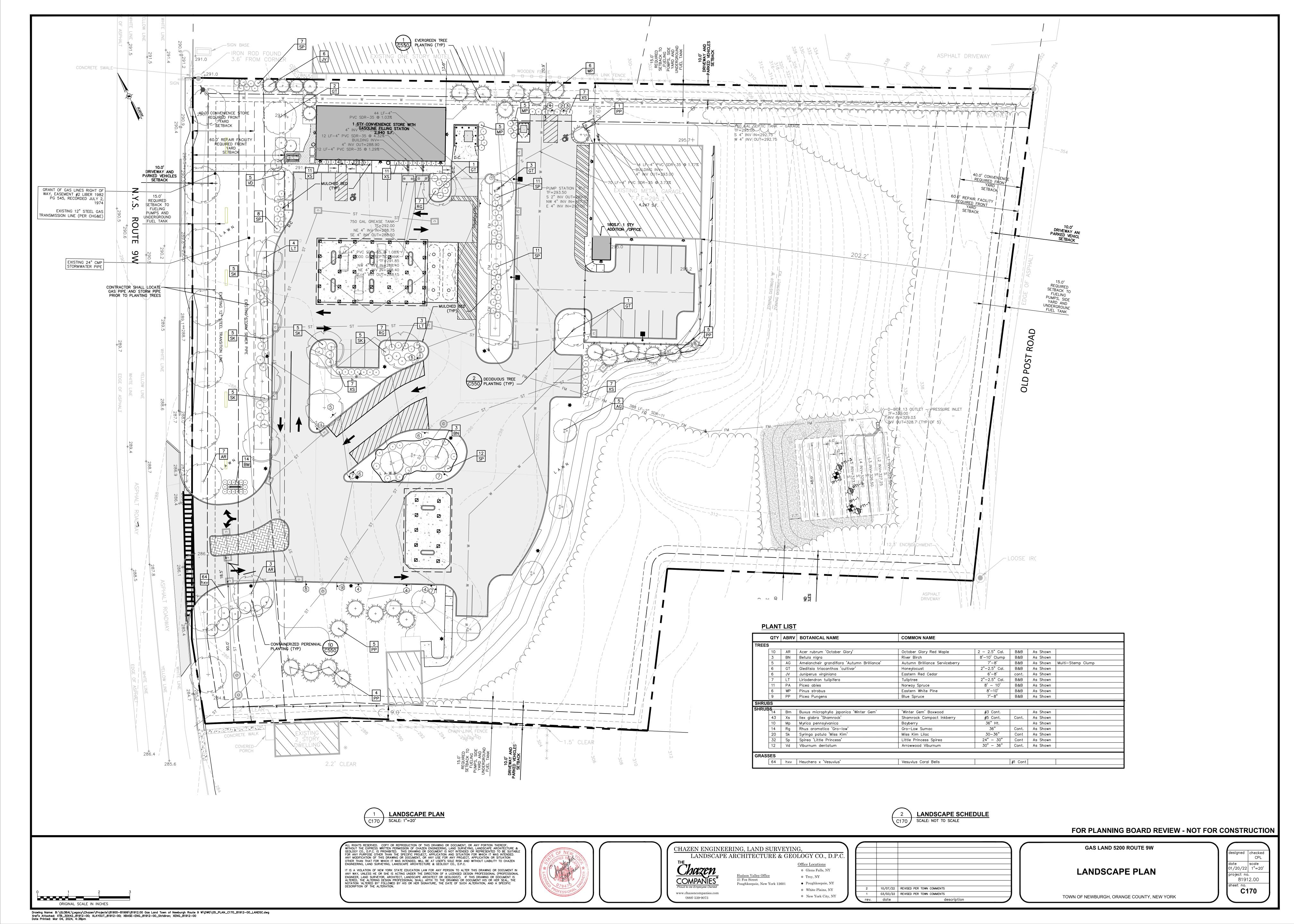
designed checked

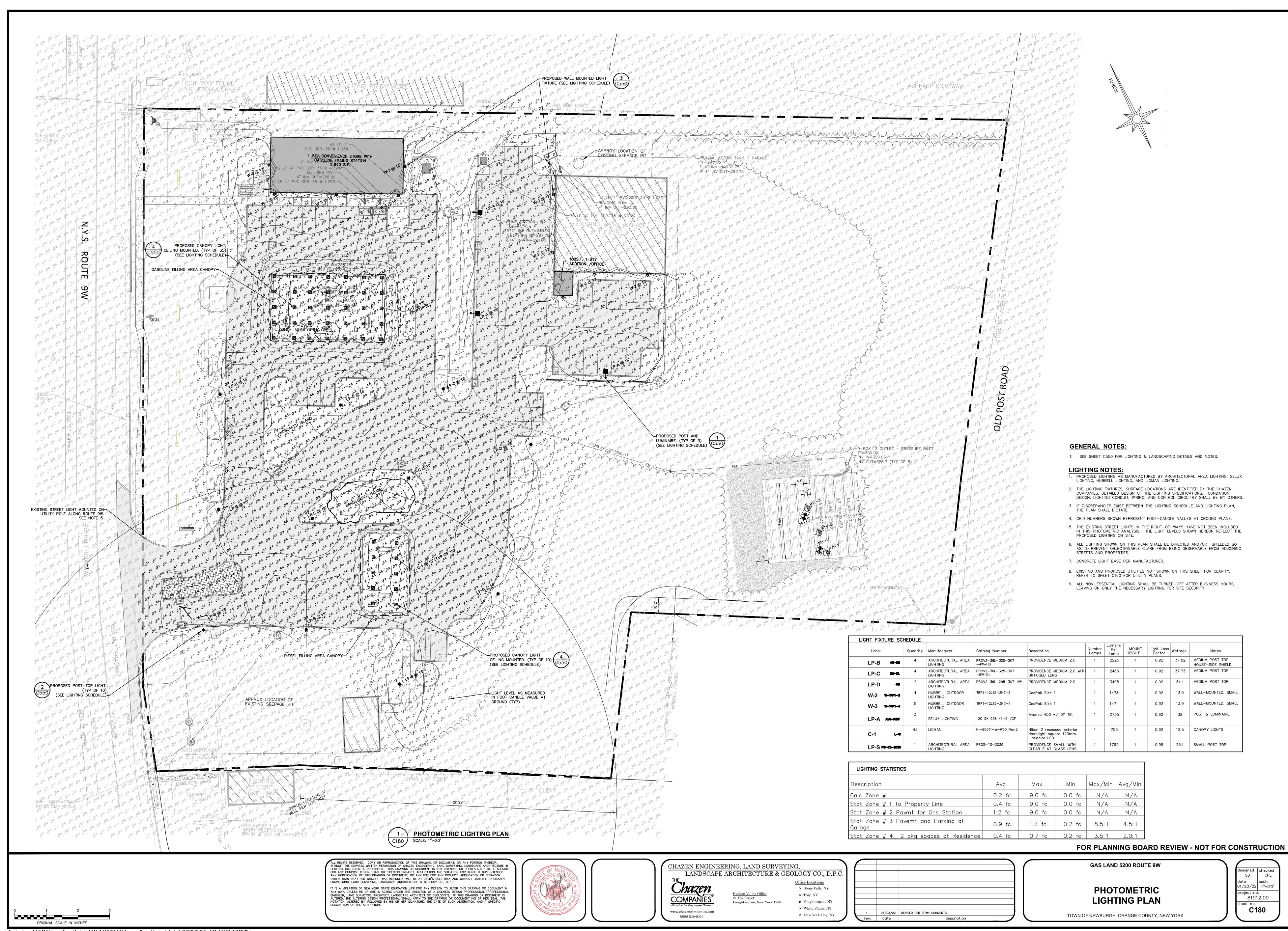
CPL

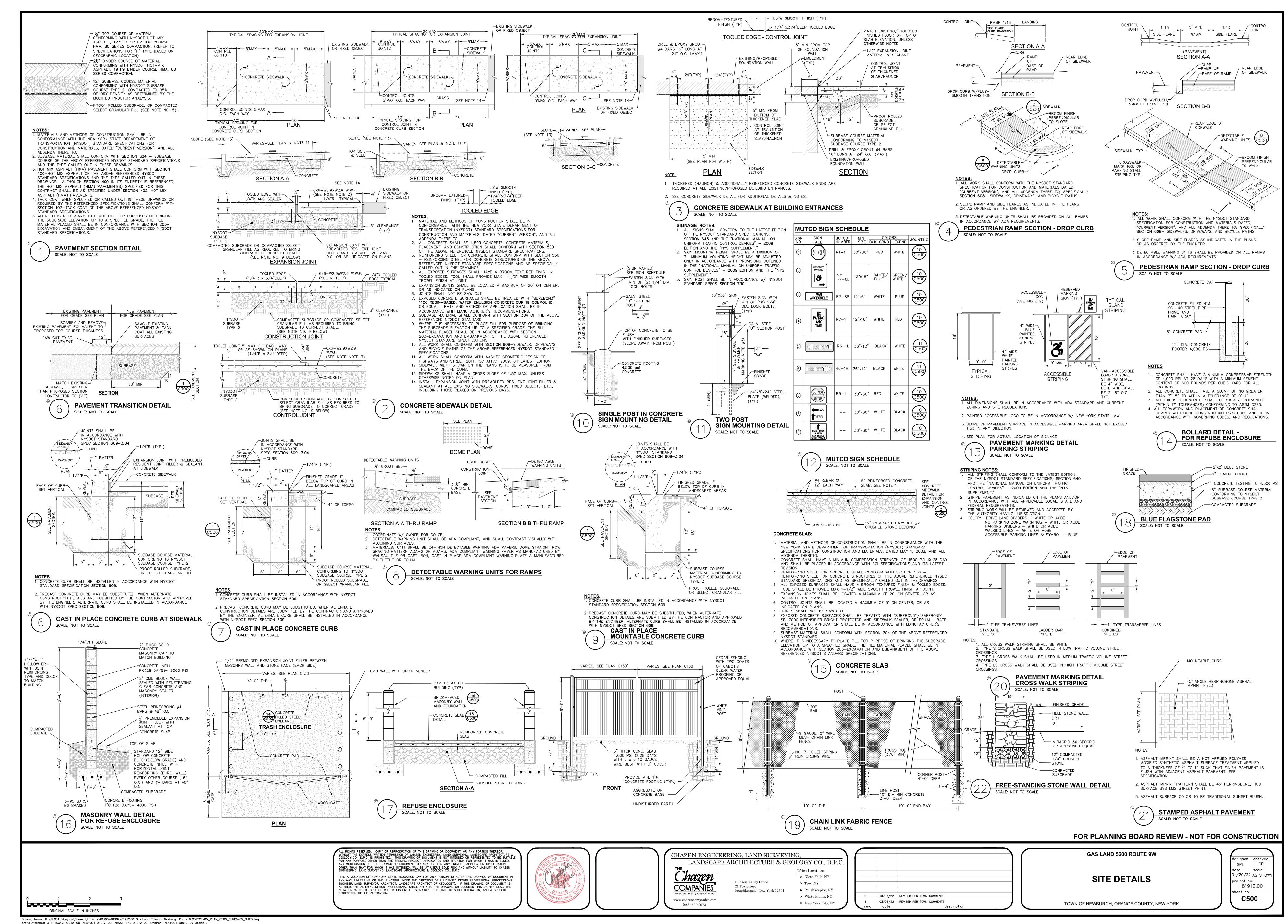


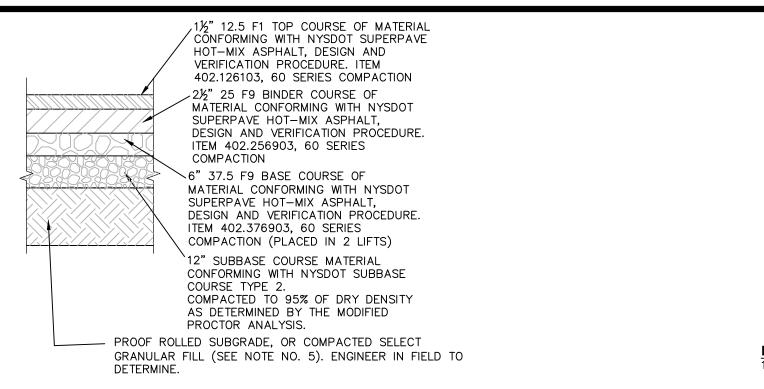












1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, AND ALL ADDENDA THERE TO. 2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 — SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.

3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400-HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 403-HOT MIX ASPHALT (HMA) PAVEMENTS FOR MUNICIPALITIES.
4. TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS. 5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS. 6. PAVEMENT SECTION SHOWN IS PRELIMINARY. PRIOR TO BIDDING AND COMMENCEMENT OF CONSTRUCTION, THE FINAL DESIGN OF THE PAVEMENT SECTION MUST BE PREPARED BY A NYS LICENSED PROFESSIONAL

7. PG BINDER 64E-22 SHALL BE IMPLEMENTED FOR ALL PAVING PROCEDURES. 8 STRAIGHT TACK COAT (ITEM 407.0103) SHALL BE APPLIES BETWEEN ALL PAVEMENT LIFTS. 9. JOINT ADHESIVE (ITEM 418.7603) SHALL BE APPLIED WHEREVER NEW PAVEMENT WILL ADJOIN EXISTING

PAVEMENT.

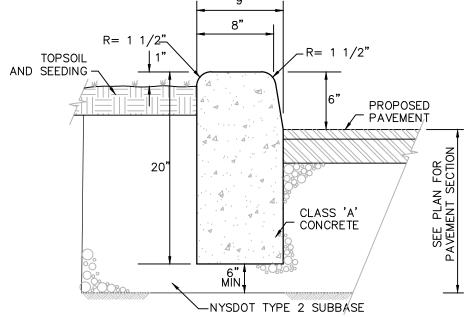
ENGINEER AND MUST BE BASED ON A CURRENT GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.

NYSDOT TRAVEL LANE PAVEMENT DETAIL SCALE: NOT TO SCALE

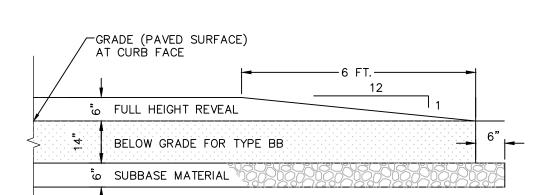
EXISTING PAVEMENT
FOR GRADE SEE PLAN

NEW PAVEMENT
FOR GRADE SEE PLAN -REMOVE EXISTING SCARIFY AND REMOVE-EXISTING PAVEMENT EQUIVALENT TO + VARIES PROPOSED TOP COURSE THICKNESS -SAWCUT EXISTING PAVEMENT & TACK COAT ALL EXISTING SURFACES OR MILL ' BASE SUBBASE

NYSDOT PAVEMENT TRANSITION



NYSDOT CURB DETAIL





TOP COURSE OF MATERIAL CONFORMING WITH NYSDOT SUPERPAVE HOT-MIX ASPHALT, DESIGN AND MIXTURE VERIFICATION PROCEDURE. 2½" BINDER COURSE OF MATERIAL CONFORMING WITH NYSDOT SUPERPAVE HOT-MIX ASPHALT, DESIGN AND MIXTURE VERIFICATION PROCEDURE. - 3 1/2" BASE COURSE OF CONFORMING NYSDOT SUPERPAVE HOT MIX ASPHALT DESIGN AND MIXTURE VERIFICATION PROCEDURE. - 12" SUBBASE COURSE MATERIAL CONFORMING WITH NYSDOT SUBBASE COURSE TYPE 2. COMPACTED TO 95% OF DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR - PROOF ROLLED SUBGRADE, OR COMPACTED SELECT GRANULAR FILL (SEE NOTE NO. 5).

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, AND ALL ADDENDA THERE TO. 2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. 3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400-HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 403-HOT MIX ASPHALT (HMA) PAVEMENTS FOR MUNICIPALITIES. 4. TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS. 5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS. 6. PAVEMENT SECTION SHOWN IS PRELIMINARY. PRIOR TO BIDDING AND COMMENCEMENT OF CONSTRUCTION, THE FINAL DESIGN OF THE PAVEMENT SECTION MUST BE PREPARED BY A NYS LICENSED PROFESSIONAL ENGINEER AND MUST BE BASED ON A CURRENT GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.

8 STRAIGHT TACK COAT (ITEM 407.0103) SHALL BE APPLIES BETWEEN ALL PAVEMENT LIFTS. 9. JOINT ADHESIVE (ITEM 418.7603) SHALL BE APPLIED WHEREVER NEW PAVEMENT WILL ADJOIN EXISTING PAVEMENT.

NYSDOT SHOULDER PAVEMENT DETAIL

7. PG BINDER 64E-22 SHALL BE IMPLEMENTED FOR ALL PAVING PROCEDURES.

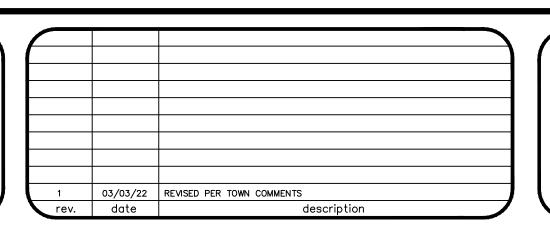
SCALE: NOT TO SCALE

FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT, OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN







**NYSDOT DETAILS** 

TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

GAS LAND 5200 ROUTE 9W

designed checked

ORIGINAL SCALE IN INCHES

#### **CONSTRUCTION PHASING NOTES:**

- 1. THE CONTRACTOR SHALL NOTIFY THE OWNER AND NYSDOT ENGINEER IN WRITING WHEN CONSTRUCTION WILL BEGIN, AT LEAST TWO (2) WEEKS PRIOR TO THE START OF WORK.
- 2. PRIOR TO LEAVING THE WORK SITE EACH DAY, THE CONTRACTOR SHALL REMOVE OR PROTECT ANY PART OF THE WORK SITE THAT MAY BE CONSIDERED HAZARDOUS TO THE TRAVELING PUBLIC.
- 3. WHILE PAVING WITHIN WORK ZONE, THE CONTRACTOR SHALL FOLLOW FIGURE 302-9B ON PAGE 2532 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL
- 4. PAVEMENT RESURFACING OPERATIONS SHALL BE SCHEDULED SO AS TO MINIMIZE THE LONGITUDINAL LENGTH OF EXPOSED PAVEMENT EDGE LEFT OVERNIGHT. REFER TO N.Y.S.D.O.T. STANDARD SPECIFICATION SECTION 402-3.09 JOINTS.

#### **HIGHWAY WORK PERMIT NOTES:**

- 1. NO TRAVEL LANE CLOSURE DURING THE FOLLOWING TIMES (OR ACCORDING TO PERMIT): 6:30 TO 9:30 A.M. 4: 30 TO 6: 30 P.M.
- 2. ALL LANE CLOSURE AND TRAFFIC CONTROL MUST CONFORM TO THE LATEST EDITION OF THE NYSDOT SPECIFICATIONS, SECTION 640 AND THE CODES RULES AND REGULATIONS OF THE STATE OF NEW YORK (NYCRR) TITLE 17-TRANSPORTATION VOLUME B-CHAPTER V "UNIFORM TRAFFIC CONTROL DEVICES." AS PER FHWA MUTCD 2009 EDITION AND NYS SUPPLEMENTAL TO NATIONAL MUTCD 2010 EDITION.
- 3. THE CONTRACTOR SHALL COMPLY WITH THE WORK RESTRICTIONS FOR HOLIDAYS AND OTHER EVENTS AS PART OF THE STANDARD CONDITION AND OBLIGATION FOR HIGHWAY WORK PERMITS. LANE CLOSURES WILL NOT BE PERMITTED DURING THE FOLLOWING HOLIDAY PERIODS: EASTER WEEKEND, MEMORIAL DAY, INDEPENDENCE DAY, THANKSGIVING, CHRISTMAS, AND NEW YEARS DAY.

### REFERENCE NOTES:

1. EXISTING PAVEMENT MARKINGS TO BE CLEANED UNDER ITEMS 635.0103, 635.0203, AND 635.0303, PRIOR TO THE INSTALLATION OF NEW PAVEMENT MARKINGS, A.O.B.E. 2. PAVEMENT MARKINGS ARE TO BE DIMENSIONED AS PER NYS STANDARD SHEETS 685-1, 685-1R1,

### **GENERAL NOTES:**

- EXISTING TOPOGRAPHIC INFORMATION FOR HEREON WAS COMPILED FROM A SURVEY COMPLETED OCTOBER 21, 2019, BY HERITAGE LAND SURVEYING, P.C..
- 2. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.
- 3. SURVEYED WITHOUT THE BENEFIT OF A TITLE SEARCH.

685-2R2, 685-3R2, 685-4R2, 685-5.

- COPYRIGHT CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C., ALL RIGHTS
- 5. SURVEYED FROM RECORD DESCRIPTION AND AS IN POSSESSION.
- 6. SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.
- BUILDING SHOWN HEREON SERVED BY UNDERGROUND UTILITIES.
- TOPOGRAPHY SHOWN HEREON WAS COMPILED FROM A FIELD SURVEY COMPLETED NOVEMBER 16. 2017, BY CHAZEN ENGINEERING, LAND SURVEYING AND LANDSCAPE ARCHITECTURE CO. D.P.C. DATUM NAVD-88, 1 FOOT CONTOUR INTERVAL.

8. THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 753 - 48 HOURS PRIOR

TO DIGGING CALL DIGSAFELY NEW YORK 1-800-962-7962 TO HAVE PUBLIC UTILITY LOCATIONS PAINTED.

- 10. UNDERGROUND FACILITIES AND STRUCTURES SHOWN HEREON WERE TAKEN FROM DATA OBTAINED FROM PREVIOUS MAPS AND RECORD DRAWINGS. ALL ABOVE GROUND STRUCTURES AND SURFACE FEATURES SHOWN HEREON ARE THE RESULT OF A FIELD SURVEY UNLESS OTHERWISE NOTED. THERE MAY BE OTHER UNDERGROUND UTILITIES. THE EXISTENCE OF WHICH ARE NOT KNOWN OR CERTIFIED BY THE UNDERSIGNED SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION MUST BE NOTIFIED PRIOR TO CONDUCTING TEST BORINGS, EXCAVATION AND CONSTRUCTION.
- 11. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES, EXISTING STRUCTURE LOCATIONS AND OTHER EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR FURTHER RESOLUTION.
- 12. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT OTHER CONTRACTORS MAY BE WORKING IN THE AREA ON OTHER CONSTRUCTION AT THE SAME TIME THAT WORK IS PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE AWARE OF THE NATURE AND EXTENT OF THIS OTHER WORK AND SHALL SCHEDULE AND CONDUCT HIS OWN OPERATION SO THAT THERE WILL BE NO CONFLICT IN
- 13. SINCE THIS PROJECT INVOLVES CONSTRUCTION WITHIN AN ACTIVE ROADWAY, IT IS IMPERATIVE THAT THE CONSTRUCTION BE CARRIED FORTH IN SUCH A MANNER AS TO INSURE THAT PROPER TRAFFIC FLOW IS MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND
- 14. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS AND SHALL BE RESPONSIBLE FOR FIELD FIT FINISH AND QUALITY OF WORK AND MATERIALS USED IN THE CONSTRUCTION. ALLOWANCE SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS
- MANMADE FEATURES WHETHER SHOWN ON THE PLANS OR ENCOUNTERED IN THE FIELD. IT IS THE INTENTION OF THE PLANS TO SHOW ONLY MAJOR FEATURES TO BE PROTECTED, RESTORED OR REPLACED. 16. PROTECTION AND RESTORATION OF PROPERTY SHALL BE IN ACCORDANCE WITH THE NYSDOT STANDARD

15. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT AND RESTORATION OF ALL NATURAL AND

- 17. TOPSOIL SHALL BE PLACED AND AREAS SHALL BE SEEDED AS SOON AS FINAL GRADES ARE ESTABLISHED
- ON PERMANENT SLOPES. SLOPES SHALL ALSO BE MULCHED.
- 18. THE CONTRACTOR SHALL CONTACT ALL THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES ENTERING ON OR NEAR THE PROJECT AREA PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES AND
- 19. THE CONTRACTOR SHALL VERIFY THE LOCATION OF AND SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION, IN SO FAR AS THEY MAY BE ENDANGERED BY HIS OPERATIONS. THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS. IF THEY ARE SHOWN ON THE DRAWINGS. THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES NOT SHOWN ON IHESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION TO UTILITY SERVICES.
- 20. IF TEMPORARY UTILITY SERVICES ARE REQUIRED, THE CONTRACTOR SHALL SEE TO IT THAT THEY ARE PROVIDED. AT NO ADDITIONAL COST TO THE OWNER, AND IT SHALL BE HIS RESPONSIBILITY TO MAINTAIN SUCH TEMPORARY FACILITIES FOR THE DURATION OF THE PROJECT AS NECESSARY
- 21. ALL EPOXY PAVEMENT MARKINGS AND ALL SIGNS SHALL BE IN CONFORMANCE WITH THE NYSDOT MUTCD.
- 22. ALL DISTURBED AREAS WITHIN THE R.O.W. SHALL BE TOPSOILED, SEEDED AND MULCHED. 23. ALL SIGNING WILL BE IN ACCORDANCE WITH THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL
- DEVICES WITH NYS SUPPLEMENT, MOST RECENT VERSION. 24. PRIOR TO LEAVING THE WORK SITE EACH DAY, THE CONTRACTOR SHALL REMOVE OR PROTECT ANY PART
- OF THE WORK SITE THAT IS CONSIDERED HAZARDOUS TO THE TRAVELING PUBLIC, BY THE NYSDOT RESIDENT ENGINEER OR PERMIT ENGINEER, TOWN ENGINEER, OR POLICE DEPARTMENT. 25. DURING ALL CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL MAINTAIN ACCESS TO EACH ADJACENT IF CONDITIONS REQUIRE THAT ACCESS BE TEMPORARILY CLOSED, THE CONTRACTOR SHALL NOTIFY

THE OWNER AT LEAST 24 HOURS IN ADVANCE. ALL ACCESS DRIVES WILL BE OPEN FOR SAFE USE AT THE

- 26. PAVEMENT LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH NYSDOT STANDARD SHEET 685-2R2. 27. IN ADDITION TO THE ABOVE NOTES, THE CONTRACTOR SHALL FOLLOW ALL NOTES ATTACHED TO THE
- 28. AREAS DISTURBED NOT RECEIVING PAVEMENT OR CONCRETE SHALL BE TOPSOILED, SEEDED, AND MULCHED IN ACCORDANCE WITH SPECIFICATIONS ON ATTACHED SHEETS.

# SIGNAGE AND PAVEMENT MARKING NOTES:

2. STRIPING WORK WILL BE REVIEWED AND ACCEPTED BY THE NYSDOT.

NYSDOT WORK PERMIT.

Xref's Attached: XTB 30X42 81912-00 Date Printed: Mar 04, 2024, 4:40pm

ORIGINAL SCALE IN INCHES

PROVIDE THOSE AGENCIES 72 HOURS NOTIFICATION.

- ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MAY 1, 2008 EDITION OF THE NYSDOT STANDARD SPECIFICATIONS WITH LATEST REVISIONS, SECTION 645 AND AS NOTED IN 4, 5, AND 6 BELOW, AND THE CODES RULES AND REGULATIONS OF THE STATE OF NEW YORK (NYCRR) TITLE 17-TRANSPORTATION VOLUME B-CHAPTER V "UNIFORM TRAFFIC CONTROL DEVICES, AS PER FHWA MUTCD 2009 EDITION AND NYS SUPPLEMENTAL TO NATIONAL MUTCD 2010 EDITION.
- . MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND
- MATERIALS. DATED MAY 1, 2008, AND ALL ADDENDA THERETO; THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
- PAVEMENT MARKINGS SHALL CONFORM WITH NYSDOT SECTION 685 EPOXY REFLECTORIZED PAVEMENT
- 5. SURFACE PREPARATION FOR THE INSTALLATION OF PAVEMENT MARKING, SHALL CONFORM WITH SECTION 635 - CLEANING AND PREPARATION OF PAVEMENT SURFACES FOR PAVEMENT MARKINGS.
- 6. PERMANENT SIGNING SHALL BE INSTALLED ON TYPE A POSTS.

#### **GENERAL CONSTRUCTION NOTES:**

- 1. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED. AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
- 2. ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES.

GRADE, REMOVE LAWN AND REPLACE TO MINIMUM LIMIT OF EXCAVATION.

- 3. ALL SAWCUT LINES SHALL BE PARALLEL AND CURVILINEAR TO EXISTING OR PROPOSED CURBING AND SHALL BE A CONSTANT DISTANCE OF 18" MIN AWAY.
- 4. NOTIFY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
- 5. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW FROM THE FNGINFFR.
- 6. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
- 7. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING

8. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC

9. ALL EXISTING LAWN AREA, CURBING, PAVING, SIDEWALKS, CULVERTS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AOBE) MAILBOXES, SIGN POSTS, ETC SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOIN REMOVE PAVEMENT AND REPLACE TO SAW CUT LINE, SAW CUT IN STRAIGHT LINE TO POINT NEEDED TO BLEND

#### LAYOUT:

RIGHT-OF-WAY.

- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.
- 11. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE
- AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR. 12. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE

# PAVING:

1. NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE GRADED, COMPACTED, AND IS READY FOR PAVING. SUBBASE MATERIAL SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.

PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW BY THE ENGINEER.

- SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008. CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
- 3. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH VIBRATING SCREED. PLACEMENT IN INACCESSIBLE AND SMALL AREAS
- 4. PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE DAY'S WORK.

D. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT.

- 5. TACK COAT WHEN SPECIFIED OR CALLED OUT ON THE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATION SHALL CONFORM WITH THE FOLLOWING:
- A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90 ASPHALT EMULSION FOR TACK COAT OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, SHALL BE APPLIED IN ACCORDANCE WITH SECTION 407 - TACK COAT SHALL BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE
- B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM.
- C. APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES & AND SURFACES OF CURBS, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
- 6. AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.

#### STRIPING REMOVAL NOTES:

- 1. REMOVAL OF EXISTING PAVEMENT STRIPING SHALL BE ACCOMPLISHED BY MILLING. THE WORK SHALL BE PERFORMED IN SUCH A MANNER THAT THE FINISHED PAVEMENT IS NOT DAMAGED OR LEFT IN A PATTERN THAT WILL MISLEAD OR MISDIRECT THE MOTORISTS. WHEN THESE OPERATIONS ARE COMPLETED THE PAVEMENT SURFACE SHALL FIRST BE POWER BROOMED AND THEN BLOWN OFF WITH COMPRESSED AIR TO REMOVE RESIDUE AND DEBRIS RESULTING FROM THE WORK. ALL SUCH DEBRIS THAT REMAINS ON THE ROADWAY, INCLUDING BROKEN PARTS FROM CLEANING EQUIPMENT, SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL AND STATE GUIDELINES.
- 2. THE CONTRACTOR SHALL CONDUCT THE REMOVAL AND CLEANING WORK IN SUCH A MANNER AS TO MINIMIZE AIRBORNE DUST AND SIMILAR DEBRIS, SO AS TO PREVENT A HAZARD TO MOTOR VEHICLE OPERATION OR NUISANCE TO PROPERTY OWNERS.

# TRENCHING & INSTALLATION NOTES:

- ALL AREAS DISTURBED DURING TRENCHING AND WORK OPERATIONS MUST BE STABILIZED WITHIN 14 DAYS. 2. ALL TRENCHING IN PAVEMENT SHOULD BE SAW-CUT PRIOR TO TRENCHING. PAVEMENT RESTORATIONS MAY
- REQUIRE ADDITIONAL CUTBACKS AFTER TRENCHING OPERATIONS HAVE BEEN COMPLETED. 3. ALL PAVED AREAS MUST BE RESTORED WITH A MINIMUM OF 4" TEMPORARY PAVING AT THE CLOSE OF EACH DAY'S WORK OPERATIONS.
- 4. PERMANENT PAVING MUST BE COMPLETED AT AMBIENT TEMPERATURES OF 40 DEGREES AND RISING. ANY PAVING OPERATIONS COMPLETED BELOW 40 DEGREES SHALL BE CONSIDERED TEMPORARY.
- 5. ALL SIGNS REMOVED FOR CONSTRUCTION MUST BE RESET USING TYPE A POSTS.

# **DEMOLITION NOTES:**

- 1. REFER TO REQUIREMENTS OUTLINED IN THE EROSION & SEDIMENTS CONTROL PLANS & NOTES PRIOR TO COMMENCEMENT OF WORK.
- 2. CONFORM TO APPLICABLE CODE FOR SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND HAULING, DISPOSAL AND STORAGE OF DEBRIS.
- 3. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
- 4. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OPERATING FACILITIES, EXCEPT WHEN
- AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
- 5. NOTIFY ADJACENT OWNERS OF WORK THAT MAY AFFECT THEIR PROPERTY, POTENTIAL NOISE, UTILITY OUTAGE, OR DISRUPTION. COORDINATE WITH OWNER.
- 6. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
- 7. LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE VICINITY OF ANY TRENCHING OR DIGGING. DISCONNECT AND SEAL OR CAP OFF UTILITY SERVICES THAT WILL BE AFFECTED BY THIS PROJECT. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. VERIFY THAT
- UTILITIES HAVE BEEN DISCONNECTED AND CAPPED.
- 8. DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL MANNER. 9. PROTECT EXISTING FEATURES THAT ARE NOT TO BE DEMOLISHED.
- 10. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.
- 11. MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS. OR SIDEWALKS WITHOUT PERMITS. COORDINATE W/ AUTHORITY HAVING JURISDICTION.
- 12. CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION.
- 13. ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE GRADES AND CONTOURS.
- 14. FIELD VERIFY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED ON DEMOLITION PLAN TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
- 15. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH SELECTIVE DEMOLITION OPERATIONS. 16. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
- 17. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION, SUCH AS CAUSING ICING, FLOODING, AND TRANSPORTING POLLUTANTS.
- 19. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE

MATERIALS TO ACCUMULATE ON-SITE. DO NOT BURN DEMOLISHED MATERIALS ON-SITE.

DESCRIPTION OF THE ALTERATION.

18. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND

20. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. ALL DEBRIS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE AT A FACILITY APPROVED TO RECEIVE THE DEBRIS. DO NOT ALLOW DEMOLISHED

### **WINTER WORK:**

# <u>SNOW PLOWING REQUIREMENTS:</u>

DUE TO POSSIBLE SNOW FALL AND HENCE SNOW PLOWING OPERATIONS, ANY STEEL PLATES USED TO COVER AN EXCAVATION SHALL BE: 1. RECESSED INTO THE PAVEMENT AND PINNED.

2. PINNED WITH ASPHALT RAMPS PLACED ALONG ALL EDGES. RAMPS SHALL BE SLOPED AT 1 INCH RISE PER 6 FEET RUN MAXIMUM. "RAISE PLOW" SIGNS SUPPLEMENTED WITH TYPE A FLASHING LIGHTS MUST BE ERECTED AN APPROPRIATE DISTANCE BEFORE THE EXCAVATION; SIGNS AND LIGHTS MUST MEET NYSDOT MUTCD SPECIFICATIONS.

### WINTER TIME EARTHWORK REQUIREMENTS:

- ALL PERMIT WORK UNDER CONSTRUCTION BETWEEN THE DATES OF NOVEMBER 1 THROUGH MAY 1 SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- 1. GRANULAR OR OTHER FROST SUSCEPTIBLE MATERIAL SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 32 DEGREES FAHRENHEIT.
- 2. FROZEN MATERIAL SHALL NOT BE INCORPORATED INTO EMBANKMENTS OR BACKFILLS. 3. MATERIAL SHALL NOT BE PLACED ON FROZEN GROUND.
- 4. THE MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH HIGHWAY DESIGN MANUAL CHAPTER 13 APPENDIX 13C, "REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF UNDERGROUND UTILITY INSTALLATIONS WITHIN THE STATE HIGHWAY RIGHT-OF-WAY" (AKA BLUE BOOK), LATEST REVISION, AND/OR EI04-015 (ENGINEERING INSTRUCTION).
- 5. ANY SPECIAL CONDITIONS AND RESTRICTIONS AS MAY BE IMPOSED BY THE RESIDENT ENGINEER OR THE REGIONAL GEOTECHNICAL (SOILS) ENGINEER.

## PAVEMENT REPLACEMENT REQUIREMENTS:

DUE TO ASPHALT PLANTS CLOSED IN THE WINTER, TEMPORARY PAVEMENT REPLACEMENTS SHALL BE AS PER THE NYSOOT PERMIT FIELD ENGINEER (AKA INSPECTOR) AND/OR RESIDENT ENGINEER. PERMITTEE MUST MONITOR AND MAINTAIN THE TEMPORARY PAVEMENT RÉPLACÉMENT. TEMPORARY PAVEMENT REPLACEMENTS ARE REQUIRED TO BE REPLACEDIN-KIND IN THE SPRING WHEN

THERE MAY BE DIFFERENT MATERIAL REQUIREMENTS,PAVEMENT/ SUBBASE COURSES AND PAVEMENT/ SUBBASE THICKNESS FOR THE DIFFERENT PAVEMENT AREAS. ALL AREAS ARE REQUIRED TO BE REPLACED N-KIND AS PER THE NYSDOT PERMIT INSPECTOR AND/OR RESIDENT ENGINEER. TYPES OF

PAVEMENT AREAS ARE AS FOLLOWS: 1. STATE HIGHWAY TRAVEL AND TURNING LANES PAVEMENT

THE WEATHER ALLOWS NYSDOT STANDARD SPECIFICATIONS TO BE MET.

- 2. STATE HIGHWAY SHOULDER PAVEMENT
- 3. COMMERCIAL DRIVEWAY ENTRANCES TO A STATE HIGHWAY
- a. IF COMMERCIAL DRIVEWAY ENTRANCE HAS MORE PAVEMENT THAN SHOULDER, COMMERCIAL DRIVEWAY PAVEMENT IS USED FOR DRIVEWAY APRON/ TURNING AREA ACROSS THE SHOULDER.
- b. MOST COMMERCIAL DRIVEWAY ENTRANCES HAVE THE SAME AMOUNT OF PAVEMENT AS STATE HIGHWAY TRAVEL AND TURNING LANES DUE TO VOLUME OF TRAFFIC AND TRUCK TRAFFIC USING THE
- 4. PUBLIC ROAD AND SUBDIVISION ENTRANCES TO A STATE HIGHWAY SEE COMMENTS FOR COMMERCIAL DRIVEWAY ENTRANCES.

DWG. 10 PLACING "CONTROLLED LOW STRENGTH MATERIAL (CLSM)"

BACKFILL AT EXISTING UTILITIES

5. RESIDENTIAL DRIVEWAY ENTRANCES TO A STATE HIGHWAY IF SHOULDER HAS MORE PAVEMENT THAN RESIDENTIAL DRIVEWAY ENTRANCE, SHOULDER PAVEMENT IS USED FOR SHOULDER AREA AND RESIDENTIAL DRIVEWAY PAVEMENT BEGINS AT BACK EDGE OF

ALL PAVEMENT CROSS SLOPES AND DRIVEWAY PROFILES SHALL BE MAINTAINED OR CAN BE CORRECTED (DEPENDING ON EXTENT OF THE UTILITY WORK) AS ORDERED BY THE NYSDOT PERMIT FIELD ENGINEER (AKA INSPECTOR) AND/OR RESIDENT ENGINEER (AOBE).

PERMANENT PAVEMENT REPLACEMENTS FOR UNDERGROUND UTILITIES SHALL BE AS PER NYSDOT

HIGHWAY DESIGN MANUAL CHAPTER 13 APPENDIX 13C,"REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF UNDERGROUND UTILITY INSTALLATIONS WITHIN THE STATE HIGHWAY RIGHT-OF-WAY" (AKA BLUE BOOK), LATEST REVISION AND/OR EDITION AND DRAWINGS: DWG. 7 BACKFILL AND PAVEMENT STRUCTURE REPLACEMENT DETAILS FOR FULL DEPTH REPAIR OF

IN EXISTING PORTLAND CEMENT CONCRETE (PCC) PAVEMENT DWG. 8 BACKFILL AND PAVEMENT STRUCTURE REPLACEMENT DETAILS FOR FULL DEPTH REPAIR OF UTILITY CUTS IN EXISTING HOT MIX ASPHALT (HMA) PAVEMENT BACKFILL AND PAVEMENT STRUCTURE REPLACEMENT DETAILS FOR UTILITY KEYHOLE AND

PERMITTEE MUST MAKE ARRANGEMENTS WITH THE NYSDOT PERMIT FIELD ENGINEER (AKA INSPECTOR) AND/OR RESIDENT ENGINEER FOR FIELD VISIT TO ENSURE PAVEMENT REPLACEMENT IS DONE PROPERLY TO CORRECT THICKNESS.

# **ROCK REMOVAL NOTES:**

- ROCK REMOVAL BY MECHANICAL MEANS ONLY IS PERMITTED WITHIN THE NYSDOT ROW. BLASTING OF BEDROCK IS NOT PERMITTED AT THIS SITE IN ORDER TO COMPLETE THE PROPOSED DEVELOPMENT. HOWEVER. THESE NOTES ARE INCLUDED SHOULD UNFORESEEN CONDITIONS REQUIRE THE NEED FOR BLASTING TO EXCAVATE BEDROCK AND NYSDOT WERE TO AMEND THE PERMIT TO ALLOW THE CONTRACTOR TO DO. ALL COSTS SHALL BE BOURNE BY THE CONTRACTOR.
- 1. ALL RECOMMENDED SAFETY REQUIREMENTS AND STANDARDS REFERENCED AND ANY LOCAL RESTRICTIONS SHALL BE APPLIED AS REQUIRED FOR SAFETY, SECURITY, AND SPECIFICALLY RELATED DETAILS FOR BLASTING PROCEDURES. AT ALL TIMES, FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE FOLLOWED CONCERNING THE TRANSPORTATION AND STORAGE OF EXPLOSIVES.
- 2. A MINIMUM OF FOUR (4) WEEKS PRIOR TO COMMENCEMENT OF THE INITIAL BLASTING OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AS APPROPRIATE: POLICE AGENCIES, GA AND ELECTRIC SERVICE COMPANIES, TELEPHONE AND CABLE OPERATING COMPANIES, TOWN WATER AND SEWER DEPARTMENTS, NYSDOT, AND LOCAL FIRE, RESCUE, AND AMBULANCE SERVICES.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM THE USE OF EXPLOSIVES. EXPLOSIVES SHALL BE STORED IN A SECURE MANNER IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES 4. THE CONTRACTOR SHALL NOTIFY EACH PROPERTY AND UTILITY OWNER HAVING A BUILDING, STRUCTURE,
- INTENTION TO USE EXPLOSIVES. NOTICE SHALL BE GIVEN SUFFICIENTLY IN ADVANCE TO ENABLE THE OWNERS TO TAKE STEPS TO PROTECT THEIR PROPERTY. NOTICE SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DAMAGE RESULTING FROM HIS BLASTING OPERATIONS. 5. THE CONTRACTOR SHALL SCHEDULE AND CONDUCT PRE-BLAST SURVEYS WITH PROPERTY OWNERS

OR OTHER INSTALLATION ABOVE OR BELOW GROUND IN PROXIMITY TO THE SITE OF THE WORK OF HIS

- LOCATED IN THE AREA POTENTIALLY AFFECTED BY AIRBLAST OVERPRESSURE AND GROUND VIBRATION OR AS REQUIRED. 6. THE CONTRACTOR SHALL IMPLEMENT ENGINEERING MEASURES IN ORDER TO MINIMIZE THE POTENTIAL IMPACTS OF DUST, NOISE AND GROUND VIBRATION. BLAST VIBRATION CONTROL WILL BE ACHIEVED BY LIMITING THE CHARGE PER DELAY SO THAT THE PEAK PARTICLE VELOCITY REMAINS BELOW THE
- 7. A APPROPRIATELY QUALIFIED, LICENSED BLASTING SPECIALIST, WITH EXPERIENCE SHALL BE ONSITE AND
- SUPERVISE BLASTING OPERATIONS. AT ALL TIMES, THE BLASTING AREA SHALL BE RESTRICTED TO BLASTING OPERATIONS AND AUTHORIZED PERSONNEL ONLY. 8. PROTECTIVE MEASURES INCLUDING INSTALLATION OF SIGNAGE, NOTIFICATION OF NEARBY RESIDENTS, TRAFFIC CONTROL AS NECESSARY ALONG NEARBY ROADS, AUDIBLE PRE-BLAST WARNINGS, AND USE
- 9. DELIVERY AND TRANSPORT OF EXPLOSIVES FROM THE POWDER MAGAZINES TO THE BLAST AREA WILL BE BY VEHICLES SPECIFICALLY DESIGNED FOR THIS USE BY THE CRITERIA OUTLINED IN THE SAFETY REQUIREMENTS. ONLY AUTHORIZED PERSONS WILL TRANSPORT AND HANDLE THE EXPLOSIVES AS DESIGNATED BY THE ISSUING AUTHORITY OF THOSE LICENSES FOR THIS PURPOSE.
- 10. MONITORING OF PEAK PARTICLE VELOCITY (INCHES/SECOND) AND PEAK AIRBLAST OVERPRESSURE (PSI) SHALL BE PERFORMED DURING ALL BLASTS.

# **GRADING NOTES**

CONTRACTOR'S EXPENSE.

OF BLAST MATS SHALL BE IMPLEMENTED.

- 1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
- 2. IF ROCK REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- 3. ALL BLASTING OPERATIONS WILL ADHERE TO NEW YORK STATE AND LOCAL AUTHORITY ORDINANCES GOVERNING THE USE OF EXPLOSIVES. THE STATE REGULATIONS ARE CONTAINED IN 12 NYCRR 39 AND INDUSTRIAL CODE RULE 153.
- REUSED IN LAWN AND PLANTING AREAS ONLY. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN. 5. BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. ORNAMENTAL TREES, SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND RE-PLANTED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE

4. STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE STORED AND

STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.

6. ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK,

7. REMOVE ALL VEGETATION, TREES, STUMPS, GRASSES, ORGANIC SOILS, DEBRIS AND DELETERIOUS MATERIALS WITHIN THE AREAS SLATED FOR CONSTRUCTION.

### TRAFFIC CONTROL PLAN:

### TEMPORARY LANE CLOSURES:

IT WILL BE NECESSARY TO TEMPORARILY CLOSE TRAVEL LANES IN ORDER TO PERFORM THE CONTRACT WORK. THE FOLLOWING RESTRICTIONS SHALL APPLY TO LANE CLOSURES:

- 1. NO LANE CLOSURES SHALL BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER-IN-CHARGE
- 2. THE STATE RESERVES THE RIGHT TO ALLOW WORK WITHIN THE CONTRACT LIMITS BY OTHERS ALONG KEY
- CORRIDORS. IN ORDER TO MINIMIZE INCONVENIENCE TO THE TRAVELING PUBLIC, ANY LANE CLOSURES REQUIRED WITHIN CONTRACT LIMITS MUST BE APPROVED BY THE SURFACE TRANSPORTATION CONTROLLER (STC). KEY CORRIDORS ARE DEFINED AS 1-684, TACONIC STATE PARKWAY (TSP), PALISADES INTERSTATE PARKWAY (PIP), SPRAIN BROOK PARKWAY (SBP), SAW MILL RIVER PARKWAY (SMRP), HUTCHINSON RIVER PARKWAY (HRP), CROSS COUNTY PARKWAY (CCP), NYS RTE.17 (FUTURE 1-86), 1-84 (INCLUDING THE NEWBURGH-BEACON BRIDGE), 1-87 (INCLUDING THE TAPPAN ZEE BRIDGE), 1-287, 1- 95 AND 1-90.

THE CONTRACTORS' ATTENTION IS DIRECTED TO THE FACT THEY ARE RESPONSIBLE TO FORWARD REQUESTS THROUGH THE EIC TO THE STC FOR LANE CLOSURE APPROVALS. THESE REQUESTS MUST BE SUBMITTED TO THE STC AT THE EMAIL ADDRESS: STC-R08@DOT.STATE.NY .US, A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF SCHEDULED CLOSURES. THE STC SHALL RESPOND WITHIN FOUR BUSINESS DAYS OF RECEIPT OF REQUEST. ATTENTION IS ALSO DIRECTED TO THE FACT THAT, DUE TO POSSIBLE TRAFFIC CONTROL CONFLICTS, APPROVAL MAY OR MAY NOT BE GRANTED FOR THE DATE(S) REQUESTED. ANY ADDITIONAL COSTS, DELAYS OR REMOBILIZATIONS ASSOCIATED WITH THE APPROVAL PROCESS SHALL BE INCLUDED IN THE BID PRICE FOR BASIC WORK ZONE TRAFFIC

3. NO LANE CLOSURES WILL BE PERMITTED DURING NON-WORKING HOURS, UNLESS SPECIFICALLY PROVIDED

4. ON KEY CORRIDORS AS DESCRIBED IN (B) THE REQUIRED NUMBER OF LANES BY TIME OF DAY CHART IN

- THE PROPOSAL SHALL BE FOLLOWED. ON ALL OTHER ROUTES THE SAME NUMBER OF TRAVEL LANES (INCLUDING TURNING LANES), AS EXIST PRIOR TO THIS CONTRACT, SHALL BE MAINTAINED IN EACH DIRECTION DURING THE HOURS OF 7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M. - MONDAY TO
- 5. IN AREAS OF MAJOR SHOPPING MALLS, THE SAME NUMBER OF TRAVEL LANES (INCLUDING TURNING LANES). AS EXIST PRIOR TO THIS CONTRACT, SHALL BE MAINTAINED IN EACH DIRECTION DURING THE HOURS OF 10:00 A.M. TO 4:00 P.M. ON SATURDAYS.
- 6. THE TIME RESTRICTIONS LISTED ABOVE CAN BE SHIFTED AS TRAFFIC CONDITIONS WARRANT, AND THE CONTRACTOR SHALL BE AWARE THAT THE ENGINEER-IN-CHARGE (EIC) HAS THE ABILITY TO ORDER ADDITIONAL TIME RESTRICTIONS OF UP TO ONE HOUR PER WORK DAY TO THE TIME RESTRICTIONS LISTED ABOVE IF TRAFFIC CONDITIONS WARRANT, AT NO COST TO THE STATE, THE CONTRACTOR SHALL NO HAVE ANY DELAY CLAIMS AGAINST THE STATE IF THE EIC ORDERS UP TO ONE HOUR OF ADDITIONAL TIME
- 6. THE ENGINEER-IN-CHARGE IS AUTHORIZED TO REDUCE THE ABOVE TIME RESTRICTIONS ON THE NON-KEY CORRIDORS AS TRAFFIC CONDITIONS WARRANT.
- 7. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THE FOLLOWING HOLIDAY WORK RESTRICTIONS ARE APPLICABLE TO THIS PROJECT. DURING THESE HOLIDAY PERIODS, THE CONTRACTOR WILL NOT BE ALLOWED TO PERFORM ANY WORK THAT WILL BE DISRUPTIVE TO TRAFFIC, INCLUDING BUT NOT LIMITED TO LANE CLOSURES. LANE CLOSURES WILL NOT BE PERMITTED DURING THE FOLLOWING STATE RECOGNIZED HOLIDAYS
  - NEW YEAR'S DAY MEMORIAL DAY INDEPENDENCE DAY ABOR DAY THANKSGIVING DAY
  - CHRISTMAS DAY IF THE HOLIDAY IS ON A MONDAY, NO LANE CLOSURES WILL BE PERMITTED FROM 6AM FRIDAY TO 10 A.M. TUESDAY. IF THE HOLIDAY IS ON A TUESDAY, NO LANE CLOSURES WILL BE PERMITTED FROM 6AM FRIDAY TO 10 A.M. WEDNESDAY. IF THE HOLIDAY IS ON A WEDNESDAY, NO LANE CLOSURES WILL BE PERMITTED FROM 6AM TUESDAY TO 10 A.M. THURSDAY. IF THE HOLIDAY IS ON A THURSDAY OR FRIDAY, NO LANE CLOSURES WILL BE PERMITTED FROM 6AM THE DAY BEFORE THE HOLIDAY TO 10 A.M. MONDAY. IF THE

HOLIDAY IS ON A WEEKEND DAY, NO LANE CLOSURES WILL BE PERMITTED FROM 6AM FRIDAY TO 10 A.M.

- 8. THE CONTRACTOR IS ALSO ADVISED THAT THE STATE RESERVES THE RIGHT TO PRECLUDE LANE CLOSURES DURING PERIODS OF INCLEMENT WEATHER, WET OR ICY PAVEMENT, REDUCED VISIBILITY, TRAFFIC ACCIDENTS OR ANY OTHER EMERGENCIES. THE STATE MAY ALTER ANY LANE CLOSURES SHOULD TRAFFIC CONDITIONS OR OTHER UNFORESEEN CIRCUMSTANCES ARISE WHICH WOULD ADVERSELY AFFECT THE TRAFFIC FLOW. THE CONTRACTOR IS ALSO ALERTED TO THE FACT THAT INCIDENT MANAGEMENT OR TRAFFIC CONDITIONS MIGHT FORCE HIS/HER CONSTRUCTION OPERATION TO STOP, EVEN DURING TIME WHERE SUCH OPERATION WOULD NORMALLY BE PERMITTED. TEN SUCH OCCURRENCES PER CALENDAR YEAR SHOULD BE TAKEN INTO CONSIDERATION AS A REASONABLE FREQUENCY OF SUCH EVENT WHEN BIDDING THIS PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM AGAINST THE STATE FOR ANY DELAYS OR EXTRA
- 9. THE STATE MAY GRANT A WAIVER OF THESE RESTRICTIONS UPON A TIMELY RECEIPT OF A REQUEST FOR SAID WAIVER FROM THE CONTRACTOR. A MINIMUM OF FIVE WORKING DAYS FOR THE REVIEW OF THE CONTRACTOR'S REQUEST WILL BE REQUIRED.

### LANDSCAPE, ADA, & ENVIRONMENTAL NOTES:

COSTS INCURRED IN COMPLYING WITH THESE RESTRICTIONS.

1. ALL DISTURBED AREAS WITHIN THE STATE R.O.W. ARE TO BE TOPSOILED, SEEDED AND MULCHED TO GUARANTEE AN ACCEPTABLE STAND OF GRASS. 2. NO TREES WITHIN THE STATE R.O.W. OVER 6" D.B.H. (DIAMETER BREAST HEIGHT) ARE TO BE REMOVED WITHOUT PRIOR PERMISSION FROM THE REGIONAL LANDSCAPE ARCHITECT / OFFICE. THE REGIONAL

- LANDSCAPE ARCHITECT/ OFFICE MAY BE CONTACTED AT (845) 431-5853. 3. ACCEPTABLE ISLAND TREATMENTS OR OTHER LANDSCAPED AREAS ARE:
- a. MAINTAINED TURF, b. ORGANIC MULCH WITH OR WITHOUT PLANTS,
- \*\*\*PLANTS, AT THEIR MATURE HEIGHT, SHALL NOT INVADE THE SIGHT DISTANCE REQUIREMENTS OF DRIVEWAYS. PLANTS MUST BE 2 FEET OR LESS IN HEIGHT ABOVE THE DRIVEWAY PAVEMENT (18" ABOVE 6" CURB).
- c. CONCRETE PAVERS/ LANDSCAPE BRICK, \*\*\*FLUSH CHANNELIZING ISLANDS IN LIEU OF LARGE ASPHALT DRIVEWAYS WITH PAVEMENT MARKINGS MUST BE DESIGNED AND CONSTRUCTED TO SUPPORT TRAFFIC LOAD OF LARGE VEHICLE TURN PATHS. d. CONCRETE (IF FOR SIDEWALK, 5 FEET + SPACE FOR SIGNS MINIMUM BETWEEN CURBS),
- LANDSCAPE PLANTING DETAILS SHALL COMPLY WITH NYSDOT STANDARD SHEET M611-1 OR
- 4. UNACCEPTABLE ISLAND TREATMENTS OR OTHER LANDSCAPED AREAS ARE:
- a. ASPHALT
- b. LOOSE STONE/ GRAVEL OF ANY SIZE.
- 5. APPLICANT/ PERMITTEE AGREES TO MAINTAIN LANDSCAPING ON NYSDOT ROW. \*\*\*BLOWING OF HAZARDOUS DEBRIS (DUST, DIRT, LEAVES, ETC.) WITH ANY KIND OF FORCE TOWARDS THE STATE HIGHWAY, OTHER PUBLIC ROADWAY OR DRIVEWAY ENTRANCES IS PROHIBITED. LEAF BLOWERS OR OTHER POWER TOOLS THAT CAN INTERFERE WITH TRAFFIC, DAMAGE A VEHICLE / BICYCLE / PROPERTY OF OTHER HIGHWAY USERS OR CAUSE INJURY TO PERSONS ARE NOT PERMITTED FOR MAINTENANCE OPERATIONS. MAINTENANCE SHALL INCLUDE NORMAL MANUAL LANDSCAPE
- TYPE LABOR.
- 6. ALL SIDEWALK CURB RAMPS AND DETECTABLE WARNING SURFACES SHALL BE AS PER: a. NYSOOT STANDARD SHEETS METRIC UNITS (EB 06-051, APPROVED 2006-12-07 EFFECTIVE 2007-05-03)
- M608-10 SHEET 1 OF 4 SIDEWALK CURB RAMPS DIMENSIONS, DETAILS AND GEOMETRY M608-1 SHEET 2 OF 4 SIDEWALK CURB RAMPS CONFIGURATIONS: TYPE 1 THRU 8 M608-12 SHEET 3 OF 4 SIDEWALK CURB RAMPS CONFIGURATIONS: TYPE 9 THRU 13 M608-13 SHEET 4 OF 4 SIDEWALK CURB RAMPS DETECTABLE WARNING DETAILS US CUSTOMARY UNITS (EB 08-036, APPROVED 2008-09-19 EFFECTIVE 2009-01-08)

608-01 SHEET 1 OF 4 SIDEWALK CURB RAMP DETAILS DIMENSIONS AND GEOMETRY

608-01 SHEET 2 OF 4 SIDEWALK CURB RAMP DETAILS CONFIGURATIONS: TYPE 1 THRU 8

- 608-01 SHEET 3 OF 4 SIDEWALK CURB RAMP DETAILS CONFIGURATIONS: TYPE 9 THRU 13 608-01 SHEET 4 OF 4 SIDEWALK CURB RAMP DETAILS DETECTABLE WARNINGS b. NYSDOT STANDARD SPECIFICATIONS MAY 1, 2008 U.S. CUSTOMARY UNITS ITEM 608.20 SURFACE-APPLIED DETECTABLE WARNING UNITS SQUARE YARD
- ITEM 608.21 EMBEDDED DETECTABLE WARNING UNITS SQUARE YARD ITEM 608.22 STAMPED CONCRETE DETECTABLE WARNING UNITS SQUARE YARD
- 7. OTHER ACCESSIBLE REQUIREMENTS SHALL BE AS PER: a. ENGINEERING INSTRUCTION 92-006 - ACCESSIBLE BUS STOPS
- b. NYSDOT STANDARD SHEET: METRIC UNITS (EB 02-039, APPROVED 2002-07-25 EFFECTIVE 2003-01-16) M608-4RL - DETAILS, ACCESSIBLE PARKING FOR PERSONS WITH DISABILITES
- 8. PAVEMENT MARKINGS FOR CROSSWALKS & STOP LINES ARE AS PER NYSDOT STANDARD SHEETS, THE LATEST

METRIC UNITS- STOP LINES ARE ON STANDARD SHEET M685-1R1, CROSSWALKS ARE ON STANDARD

U.S.CUSTOMARY UNITS- STOP LINES ARE ON STANDARD SHEET 685-01 SHEET 1 OF 5, CROSSWALKS

U.S.CUSTOMARY UNITS (EB 08-036, APPROVED 2008-09-19 EFFECTIVE 2009-01-0S)

608-02 - DETAILS, ACCESSIBLE PARKING FOR PERSONS WITH DISABILITES

## TOPSOIL SPECIFICATIONS

1. EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STOCKPILES SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.

APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%.

- SITE PREPARATION:
- 1. COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED. 2. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT
- 3. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER LITTER.

#### 1. NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:

- A. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER
- OBJECTIONABLE MATERIAL. B. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING
- PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C. C. CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
- D. CONTAINING THE FOLLOWING WASHED GRADATIONS:

#### SIEVE DESIGNATION % PASSING NO 200 20-60

### APPLICATION AND GRADING:

1. TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. IT SHALL NOT BE PLACED WHEN

IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER. 2. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDED, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

# **VEGETATIVE COVER SPECIFICATIONS:**

# TEMPORARY VEGETATIVE COVER (DURING CONSTRUCTION):

SITE PREPARATION

(SAME AS PERMANENT VEGETATIVE COVER) 2. SEED MIX: (APPLY AT RATE OF 3 TO 4 LBS PER 1000 SF)

WEIGHT SPECIES OR VARIETY
100% ANNUAL RYEGRASS PURITY GERMINATION 98% 90%

(SAME AS PERMANENT VEGETATIVE COVER)

#### PERMANENT VEGETATIVE COVER (AFTER CONSTRUCTION): SITE PREPARATION

MINIMUM %

B. PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4 INCHES. C. REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.

E. FERTILIZER: USE 5-10-5 (NPK) OR EQUIVALENT. APPLY AT RATE OF 4 LBS/1000 SF.

A. BRING AREA TO BE SEEDED TO REQUIRED GRADE. A MINIMUM OF 4" OF TOPSOIL IS REQUIRED.

- D. LIME TO PH OF 6.5.
- F. INCORPORATE LIME AND FERTILIZER IN THE TOP 4 INCHES OF TOPSOIL.

G. SMOOTH AND FIRM THE SEEDBED.

WEIGHT SPECIES OR VARIETY
50% KENTUCKY BLUE GRASS\*

PERENNIAL RYE

CREEPING RED FESCUE

SEEDING IS COMPLETE.

NON-STANDARD LEGENDS ARE NOT ACCEPTABLE.

SPECIFICATION REQUIREMENTS.

2. SEED MIXTURE FOR USE ON LAWN AREAS: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS.

PURITY GERMINATION 95% 80%

85%

- LAWN SEED MIX: (APPLY AT RATE OF 5 TO 6 LBS PER 1000 SF) SUN AND PARTIAL SHADE MINIMUM %
- 20% PERENNIAL RYE 98% 90% 97% 30% CREEPING RED FESCUE \*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS. AMOUNT BY: MINIMUM % WEIGHT SPECIES OR VARIETY PURITY GERMINATION KENTUCKY BLUE GRASS\*\*
- CHEWINGS RED FESCUE 97% 85% \*\*SHADE TOLERANT VARIETY

97%

B. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS: i. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS /ACRE MIN., TO BE APPLIED ONCE

A. APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER OR HYDRO-SEEDER AT RATE INDICATED.

- ii. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY HYDROSEEDER AT RATE OF 2,000 LBS/ACRE. C. ALL SEEDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED
- D. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO DISLODGE PLANTING SOIL.

TO OCTOBER 15TH.

SPECIAL NOTES 1. MAINTENANCE AND PROTECTION OF TRAFFIC IS THE RESPONSIBILITY OF THE PERMITTEE: ANY SUBCONTRACTORS WORKING FOR THE PERMITTEE MUST HAVE A COPY OF THE HIGHWAY WORK PERMIT ON THE SITE AND MUST BE

E. UNLESS OTHERWISE DIRECTED IN WRITING, SEED FROM MARCH 15TH TO JUNE 15TH, AND FROM AUGUST 15TH

- FAMILIAR WITH THE TRAFFIC CONTROL REQUIREMENTS. IT IS STRONGLY ADVISED THAT A "TAILGATE" SAFETY MEETING WITH EACH WORK CREW BE INITIATED BEFORE THE START OF WORK. 2. TRAFFIC CONTROL SCHEMES MUST BE IN PLACE, AND MAINTAINED, THROUGHOUT THE DURATION OF WORK.
- 3. ALL MAINTENANCE AND PROTECTION OF TRAFFIC TO BE IN ACCORDANCE WITH THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE NYS SUPPLEMENT. 4. ANYONE WORKING WITHIN THE HIGHWAY RIGHT-OF-WAY SHALL WEAR HIGH-VISIBILITY APPAREL MEETING THE ANSI 107-2004 CLASS II STANDARDS AND A HARD HAT.

5. AT THE START OF WORK ON THE PROJECT, ALL WORK ZONE TRAFFIC CONTROL DEVICES SHALL APPEAR IN

"ACCEPTABLE" CONDITION. THESE DEVICES SHALL NOT BE ALLOWED TO FALL BELOW THE "MARGINAL"

CONDITION AT ANY TIME DURING THE LIFE OF THE PROJECT. FADED AND DETERIORATED PANELS AND

6. FLAGGER SIGNS ARE TO BE USED ONLY WHEN A FLAGGER IS ACTUALLY PRESENT AND VISIBLE TO THE MOTORIST. THEY SHALL BE COVERED OR REMOVED AT ALL OTHER TIMES. STOP/SLOW PADDLES ARE REQUIRED.

7. NO LOW-MOUNTED SIGNS SHALL BE PERMITTED, EXCEPT FOR FLEXIBLE PANELS MEETING THE CURRENT

# FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

**GAS LAND 5200 ROUTE 9W** 

TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

designed | checked

01/20/22 NTS

81912.00

C502

project no.

SMD | CPL

scale

WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC

RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT, OR ANY PORTION THEREOF,



(888) 539-9073

Hudson Valley Office 21 Fox Street Poughkeepsie, New York 12601

LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.

CHAZEN ENGINEERING, LAND SURVEYING,

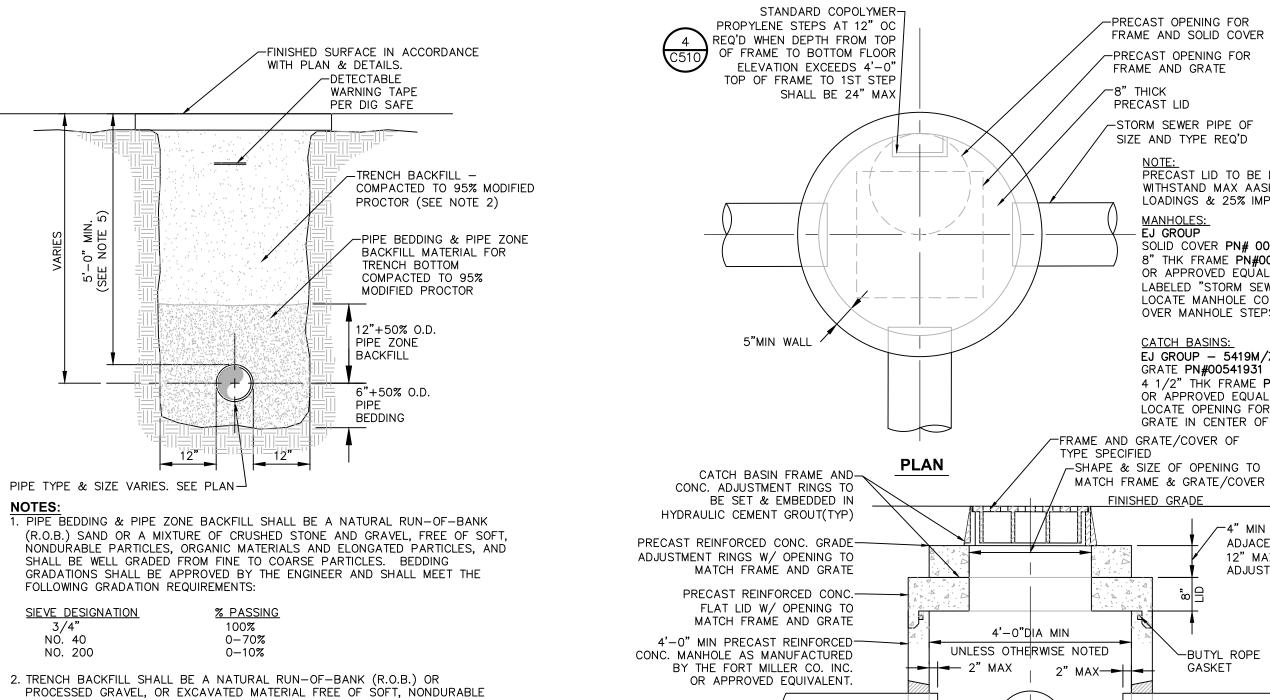
 Poughkeepsie, NY White Plains, NY New York City, NY

SHEET M685-2R3

o Glens Falls, NY Troy, NY 03/03/22 REVISED PER TOWN COMMENTS date

**NYSDOT NOTES** 

Drawing Name: B:\GLOBAL\Legacy\Chazen\Projects\81900-81999\81912.00 Gas Land Town of Newburgh Route 9 W\DWG\05\_PLAN\_C502\_81912-00\_NYSDOTNOTES.dwg



PROVIDED WITH STEPS.

PRECAST CONCRETE

SCALE: NOT TO SCALE

CATCH BASIN/MANHOLE DETAIL

PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION % PASSING 100%

IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.

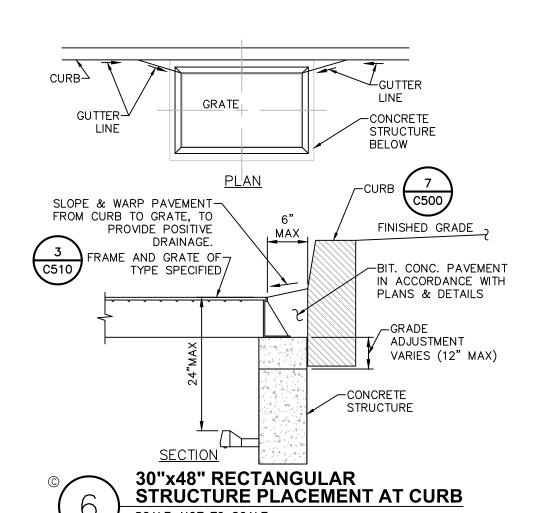
3. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF

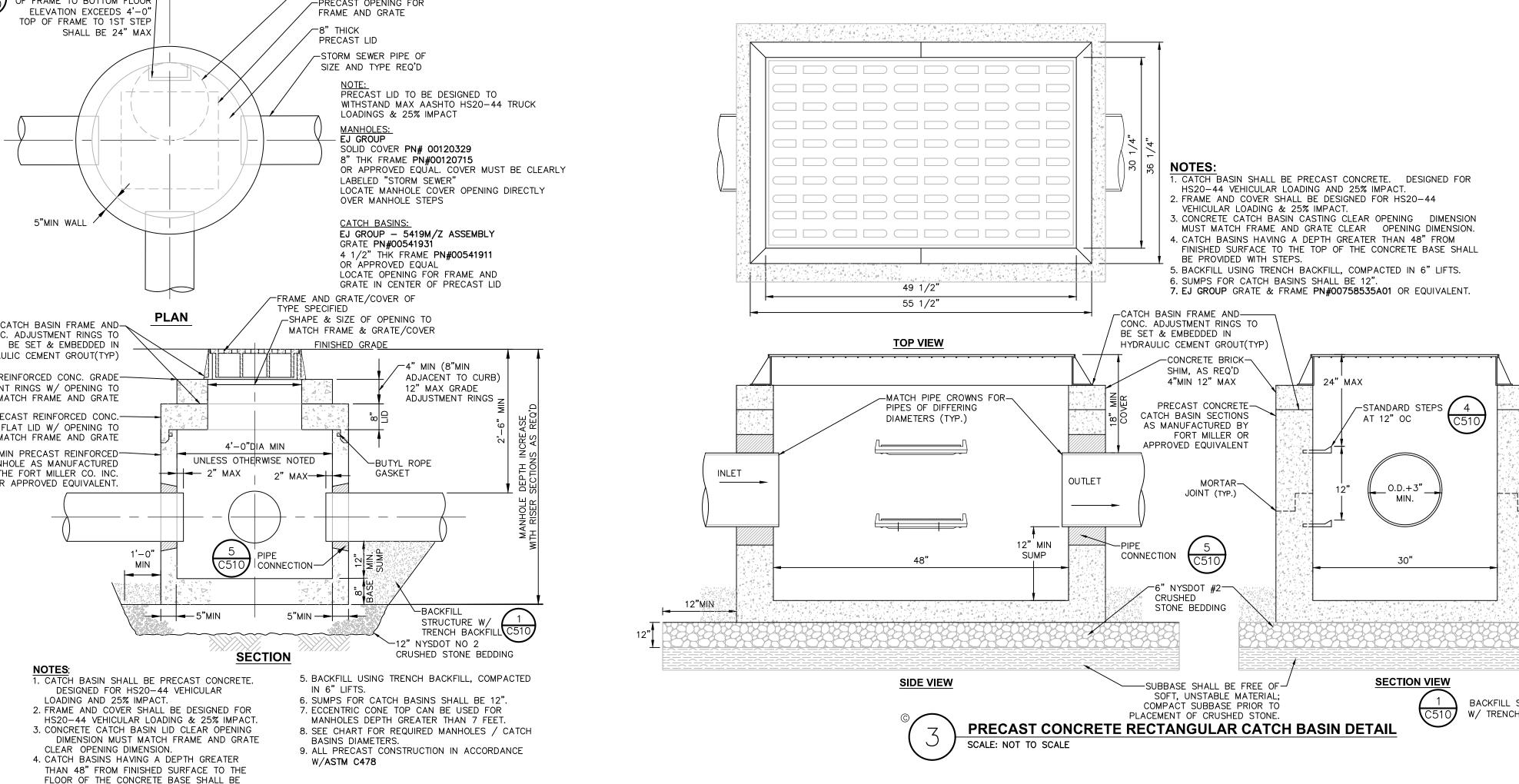
TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & 4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

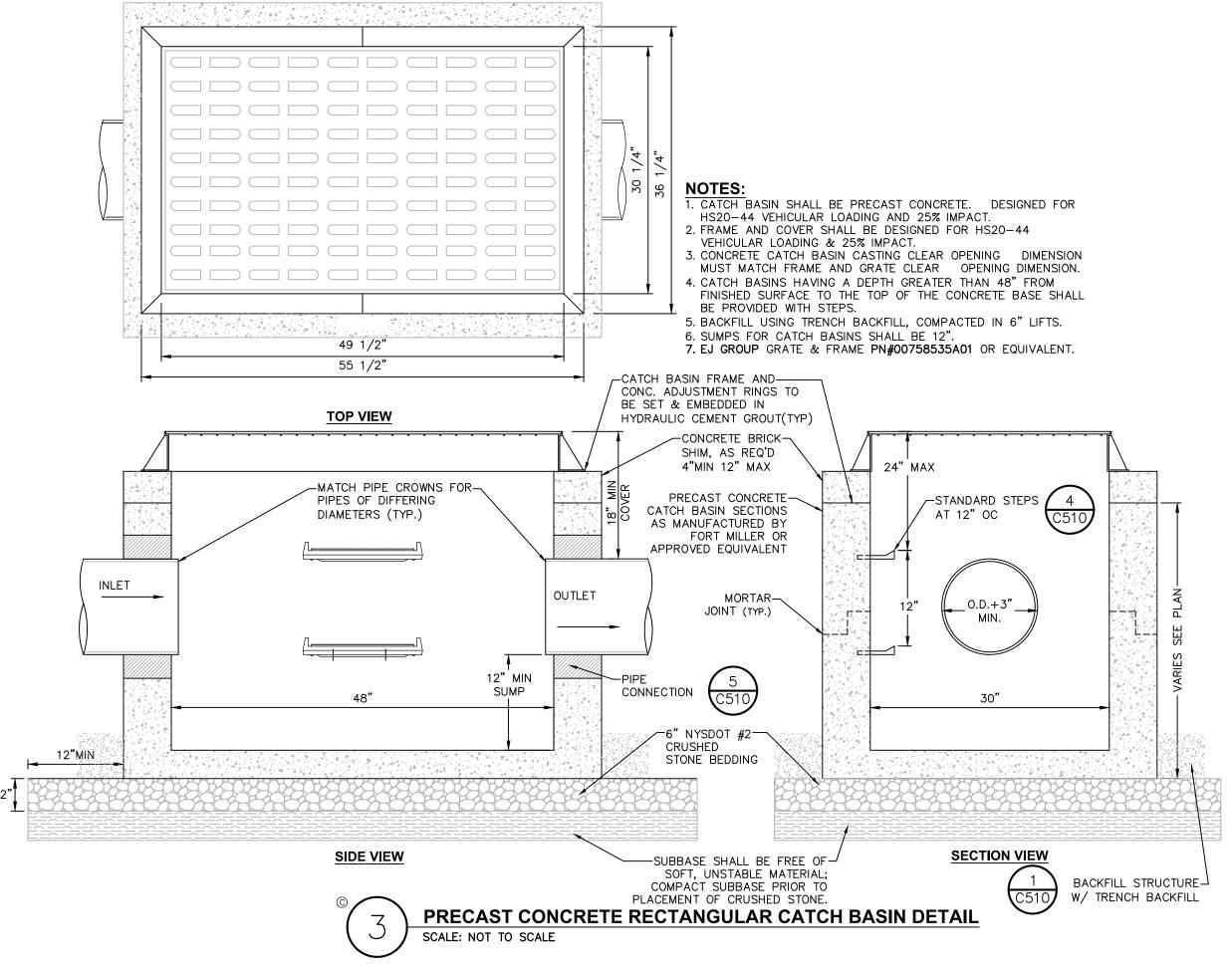
5. 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER FORCE MAINS ONLY.

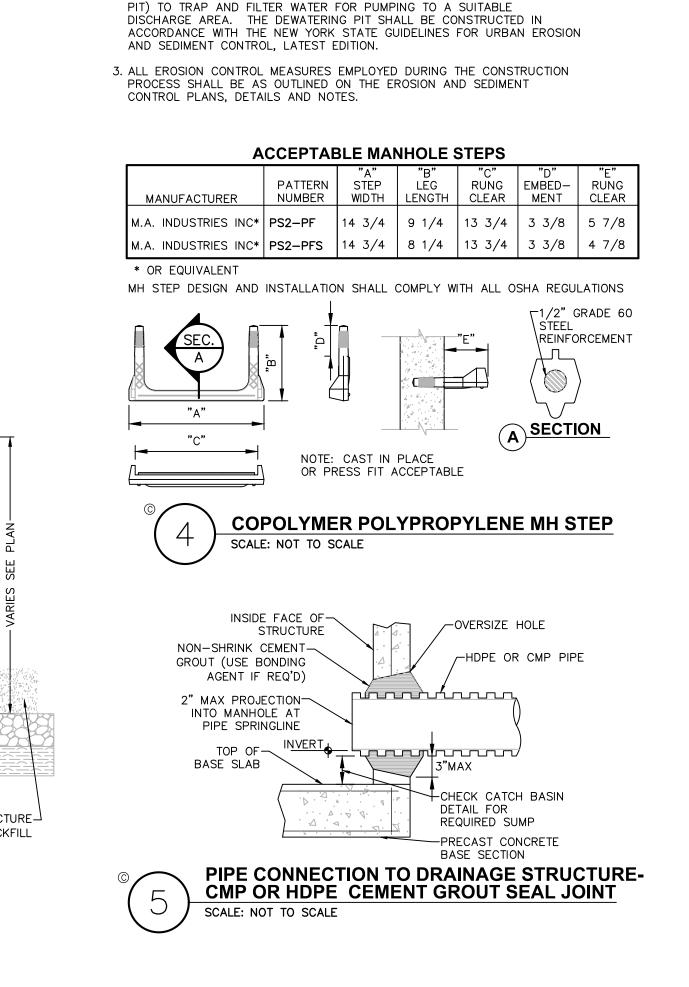
SCALE: NOT TO SCALE

PIPE TRENCH DETAIL (TYPICAL)









1. ALL STORM WATER MANAGEMENT STRUCTURES (I.E. CATCH BASIN, ETC.)

2. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES,

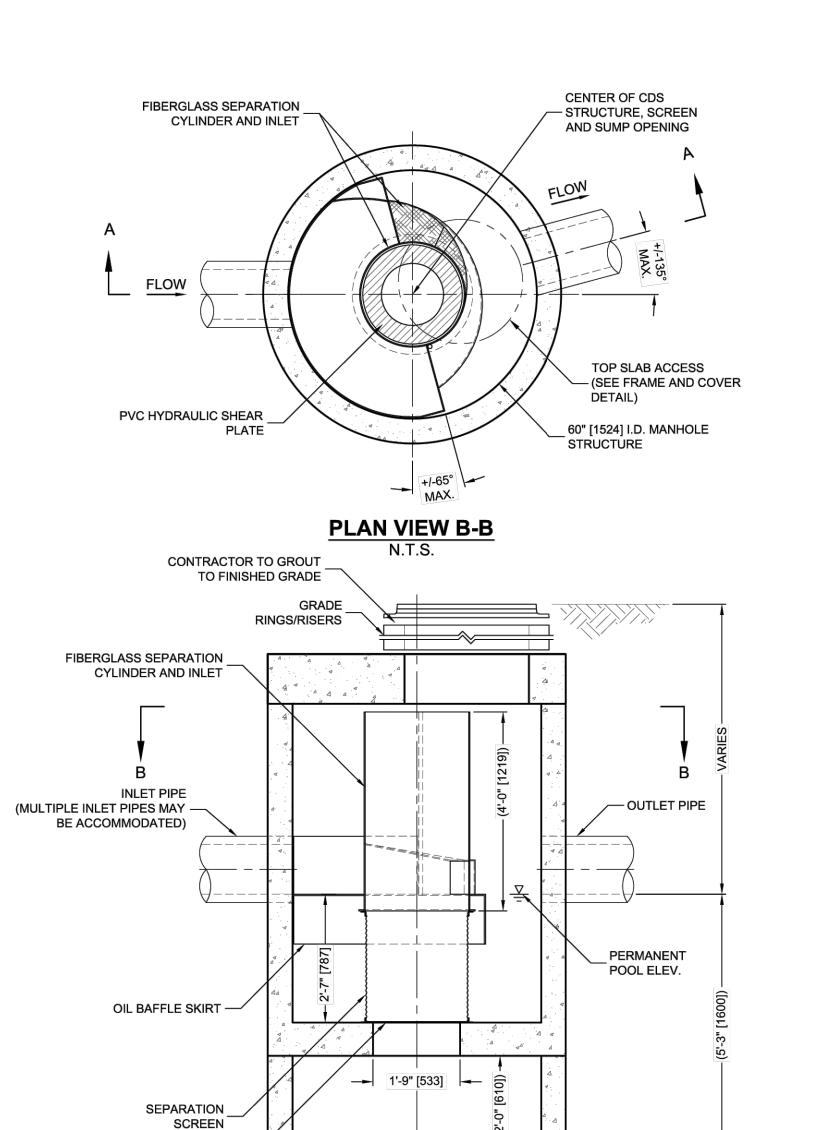
THE CONTRACTOR SHALL CONSTRUCT A DEWATERING PIT (A.K.A. SUMP

SHALL BE REGULARLY INSPECTED FOR SEDIMENT ACCUMULATIONS. CATCH

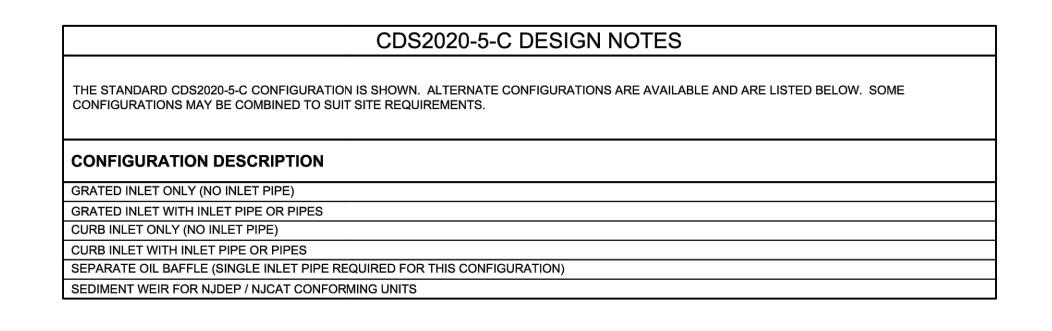
BASINS SHALL BE CLEANED WHEN SEDIMENT DEPTH REACHES A MAXIMUM OF

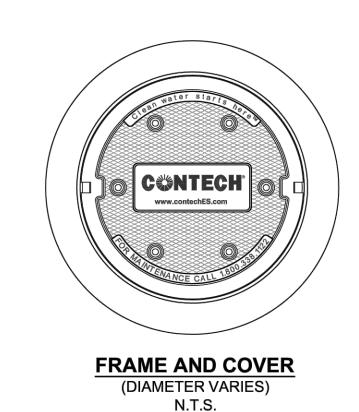
STORM SEWER NOTES:

1/2 THE AVAILABLE SUMP DEPTH.



**ELEVATION A-A** 





STRUCTURE ID							
WATER QUALITY	FLOW RAT	E (0	CFS OR L/s)		*		
PEAK FLOW RAT	E (CFS OR I	L/s)			*		
RETURN PERIOD	OF PEAK F	LO	W (YRS)		*		
SCREEN APERTU	JRE (2400 O	R 4	700)		*		
PIPE DATA:	I.E.		MATERIAL	D	IAMETER		
INLET PIPE 1 * * * *							
INLET PIPE 2 * * * *							
OUTLET PIPE * * *							
RIM ELEVATION *							
ANTI-FLOTATION	BALLAST		WIDTH	Т	HEIGHT		
* *							
NOTES/SPECIAL REQUIREMENTS:							

<u>GENERAL NOTES</u>
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE. 2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.

3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com

4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. 5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION

AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. 6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE

SPECIFIED BY ENGINEER OF RECORD. B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE

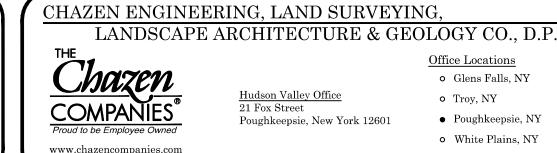
(LIFTING CLUTCHES PROVIDED). C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE. D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.

E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CDS-5 (2020) HYDRODYNAMIC SEPARATOR DETAIL SCALE: NOT TO SCALE

ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT, OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.





(888) 539-9073

PVC HYDRAULIC SHEAR

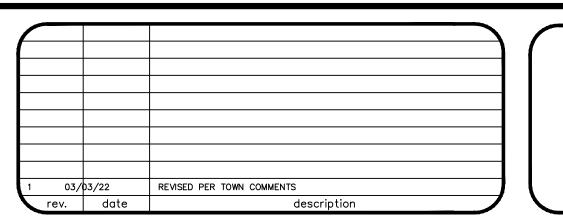
STORAGE SUMP

PLATE

SOLIDS

 Glens Falls, NY Troy, NY Poughkeepsie, NY White Plains, NY

New York City, NY



FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

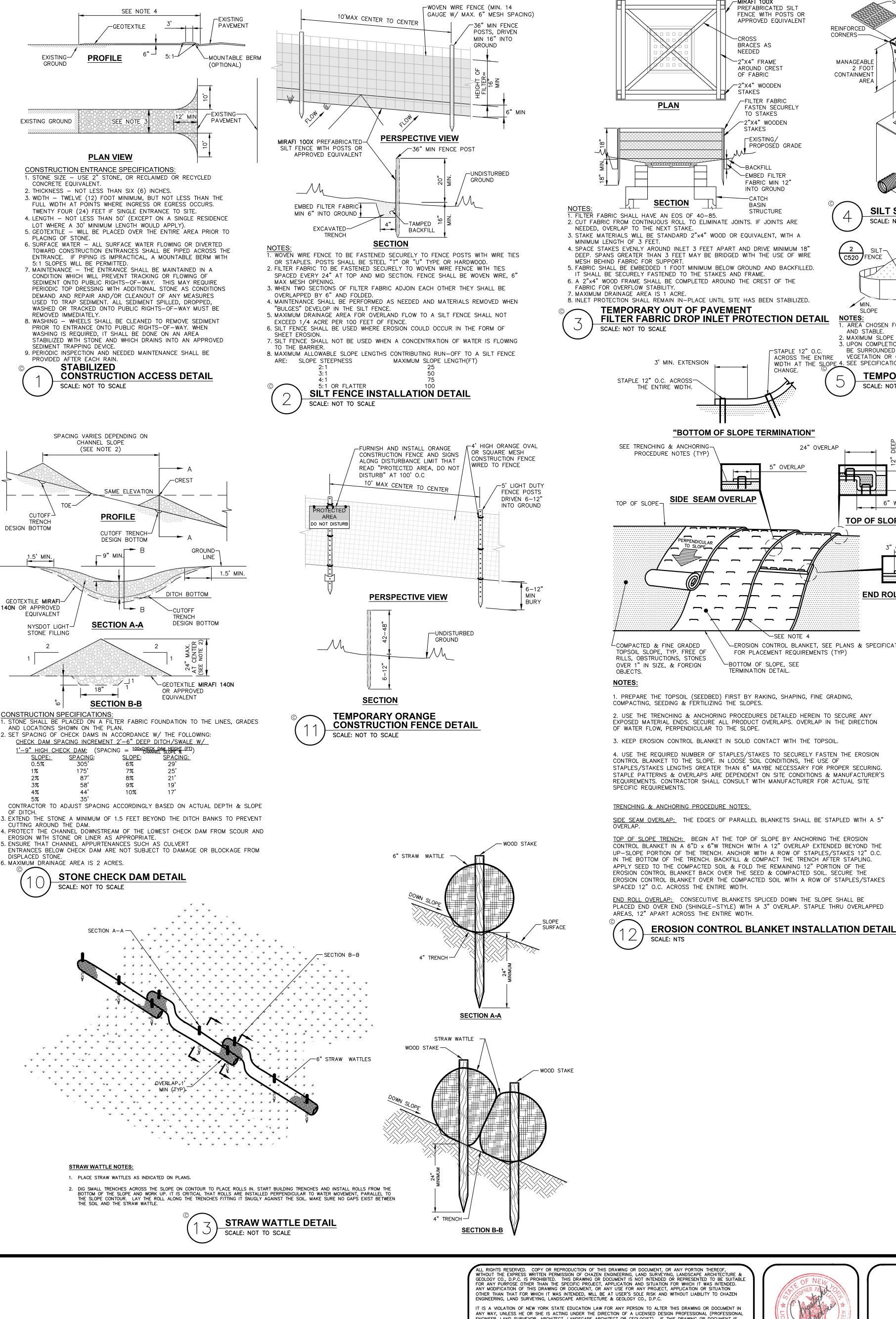
STORM SEWER DETAILS

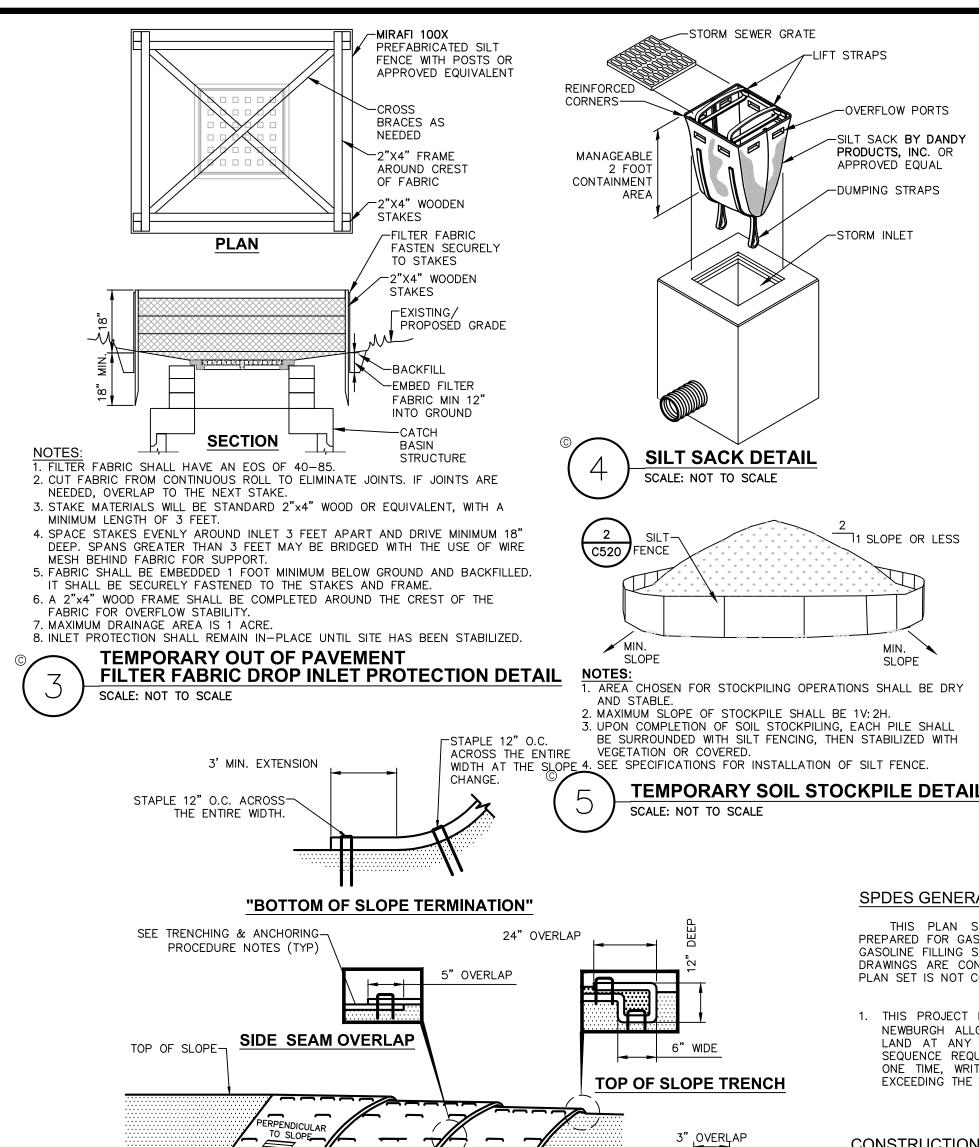
TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

**GAS LAND 5200 ROUTE 9W** 

designed | checked SMD | CPL scale 01/20/22 AS SHOW project no. 81912.00 C510

ORIGINAL SCALE IN INCHES





`—SEE NOTE 4

FOR PLACEMENT REQUIREMENTS (TYP)

-BOTTOM OF SLOPE, SEE

TERMINATION DETAIL.

VEROSION CONTROL BLANKET, SEE PLANS & SPECIFICATIONS

SPDES GENERAL PERMIT GP-0-20-001 COMPLIANCE NOTES: THIS PLAN SET AND THE ACCOMPANYING SWPPP ENTITLED "SITE PLAN PREPARED FOR GAS LAND PETROLEUM, INC. FOR A CONVENIENCE STORE WITH A GASOLINE FILLING STATION" HAVE BEEN SUBMITTED AS A SET. THESE ENGINEERING DRAWINGS ARE CONSIDERED AN INTEGRAL PART OF THE SWPPP, THEREFORE THE PLAN SET IS NOT CONSIDERED COMPLETE WITHOUT THE SWPPP.

POLYETHYLENE

CONTAINMENT MUST BE STRUCTURALLY SOUND

CONTAINMENT DEVICES MUST BE OF SUFFICIENT

FACILITIES CONSTRUCTED AND READY TO USE

ONCE WASHOUT IS 75% FULL. THIS INCLUDES

REPLACEMENT OF THE 10 MIL POLYETHLENE

QUANTITY OR VOLUME TO COMPLETELY CONTAIN

AND LEAK FREE AND CONTAIN ALL LIQUID

THE LIQUID WASTES GENERATED.

WASHOUT MUST BE CLEANED OR NEW

STRAW BALE (TYPICAL)

POLYETHYLENE

SEASONAL HIGH

SHEETING

RINDING-

-6" MIN DEPTH

ALL AROUND

AGGREGATE

-OVERFLOW PORTS

-SILT SACK **BY DANDY** 

PRODUCTS, INC. OR

APPROVED EQUAL

-DUMPING STRAPS

-STORM INLET

1. THIS PROJECT HAS NOT RECEIVED WRITTEN APPROVAL FROM THE TOWN OF NEWBURGH ALLOWING THE DISTURBANCE OF MORE THAN FIVE (5) ACRES OF LAND AT ANY ONE TIME. THEREFORE, IF THE CONTRACTOR'S CONSTRUCTION SEQUENCE REQUIRES THE DISTURBANCE OF MORE THAN FIVE ACRES AT ANY DNE TIME, WRITTEN APPROVAL MUST BE OBTAINED FROM NYSDEC PRIOR TO EXCEEDING THE 5 ACRE LIMIT.

CONSTRUCTION SEQUENCING NOTES GRUBBING FARTHWORK ACTIVITIES ETC.AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (I.E. SILT FENCES, TREE PROTECTION/BARRIER FENCES, STABILIZED CONSTRUCTION ENTRANCES, STORM DRAIN SEDIMENT FILTERS, DRAINAGE DITCH SEDIMENT FILTERS, ETC.) INDICATED ON THE PROJECT DRAWINGS. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS 2. THE CONTRACTOR SHALL CLEAR AND GRUB THE AREA OF THE STORMWATER MANAGEMENT FACILITIES. THIS AREA SHALL NOT EXCEED FIVE (5) ACRES IN EXTENT WITHOUT TEMPORARY STABILIZATION. 3. THE STORMWATER DETENTION BASIN SHALL BE UTILIZED AS A TEMPORAR` SEDIMENT TRAP DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL THE OUTLET CONTROL STRUCTURES AND THE EARTHEN BERM. THE BASIN SHALL BE

GRADED TO THE TOP OF THE AQUATIC BENCH AS INDICATED IN THE TYPICAL STORMWATER MANAGEMENT BASIN SECTION PRESENTED IN THE PROJECT DRAWINGS. 4. PRIOR TO COMMENCING CLEARING, GRUBBING AND/OR EARTHWORK ACTIVITIES IN ANY OTHER AREA OF THE SITE, THE CONTRACTOR SHALL INSTALL INLET AND OUTLET PROTECTION MEASURES (RIPRAP OVERFLOW WEIR(S), CULVERT INLET/OUTLET PROTECTION, ETC.) AND SHALL STABILIZE THE AREAS DISTURBED DURING THE CONSTRUCTION OF THE SEDIMENT BASIN. 5. THE CONTRACTOR SHALL INSTALL TEMPORARY DIVERSION MEASURES WITH ASSOCIATED STABILIZATION MEASURES (I.E., VEGETATIVE COVER, DRAINAGE DITCH SEDIMENT FILTERS, STORM DRAIN SEDIMENT FILTERS, ETC.)TO ASSURE THAT STORMWATER RUNOFF IS CONVEYED TO THE TEMPORARY SEDIMENT BASIN. 6. TEMPORARY DIVERSION MEASURES SHALL BE LOCATED IN A MANNER THAT WILL ASSURE THAT THE AREA TRIBUTARY TO EACH DIVERSION DOES NOT EXCEED

FIVE (5) ACRES. THESE TEMPORARY DIVERSION MEASURES SHALL BE INSPECTED DAILY AND REPAIRED/STABILIZED AS NECESSARY TO MINIMIZE EROSION. THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRADING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED. 8. INSTALL PROTECTIVE MEASURES AT THE LOCATIONS OF ALL GRATE INLETS CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES. 9. CONSTRUCT ALL UTILITIES, CURB AND GUTTER, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. PLACE REQUIRED

RIP-RAP AT LOCATIONS SHOWN ON THE PLANS. 10. FINALIZE PAVEMENT SUB-GRADE PREPARATION. 1. REMOVE PROTECTIVE MEASURES AROUND INLETS AND MANHOLES NO MORE THAN 24 HOURS PRIOR TO PLACING STABILIZED BASE COURSE. 2. INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT. PRIOR TO FINALIZING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY, ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEANED OF ALL

SILT AND SEDIMENT. 14. UPON COMPLETION OF SITE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALI FINALIZE CONSTRUCTION OF THE <u>STORMWATER</u> <u>MANAGEMENT</u> <u>FACILITY</u>. CONTRACTOR SHALL FINISH GRADE THE FORBAY(S), AQUATIC BENCHES, AND WET POOL(S) AND STABILIZE AS INDICATED IN THE PROJECT DRAWINGS. 15. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

EROSION AND SEDIMENT CONTROL MEASURES:

BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.

DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS. 3. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.

4. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF

CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES: PERMANENT AND TEMPORARY VEGETATION:
INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

SOIL PH SHALL BE TESTED,-

LIME SHALL BE APPLIED AS

REQUIRED TO BRING SOIL PH TO 6.5

MUICH: LAYER OF COMMON HAY-

OR STRAW; 2 TONS PER ACRE

LL CONCRETE

WASHOUT HERE

WASHOUT SIGN

' EMBEDMENT

(TYPICAL)

4. WASHOUT AREA(S) SHALL BE INSTALLED IN A

LOCATION EASILY ACCESSIBLE BY CONCRETE

. ONE OR MORE AREAS MAY BE INSTALLED ON

RELOCATED AS CONSTRUCTION PROGRESSES

6. AT LEAST WEEKLY, REMOVE ACCUMULATION OF

SAND AND AGGREGATE AND DISPOSE OF

THE CONSTRUCTION SITE AND MAY BE

NCHOR BALES WITH

2"x2"x4'

-BALES TO

STAKES PER BALE

BOTTOM OF SIGN

3'-0" MIN-

' MIN

TRUCKS

PROPERLY.

CONCRETE WASHOUT AREA DETAIL

EMBEDMENT

-BLACK

FINISH GRADE

SIGN SHALL BE PLACED

AT WASHOUT AREA

IN A PROMINENT LOCATION

GRADE

LETTERS ON

BACKGROUND

GALVANIZED

"U" CHANNEL

STABILIZED CONSTRUCTION ENTRANCE:
NSPECT THE ENTRANCE PAD EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIEI OFF—SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE

NSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. FENCE FABRIC TEARS, BEGINS TO DECOMPOSE. OR IN ANY WAY BECOMES INEFFECTIVE REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

SOIL STOCKPILE:
INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THI SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS T DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE. REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

DUST CONTROL:
SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS

TEMPORARY SOIL

CHECK DAM:
INSPECT CHECK DAMS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. IF SIGNIFICANT EROSION HAS OCCURRED BETWEEN STRUCTURES A LINER OF STONE OR OTHER SUITABLE MATERIAL SHOULD BE INSTALLED IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAM AS NEEDED TO ALLOW CHANNEL TO DRAIN HROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN

NSPECT ALL EARTH DIKES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL

SEDIMENT TRAP:
INSPECT ALL SEDIMENT TRAPS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT REPAIRS SHALL BE MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAF RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 OF THE DESIGN DEPTH OF THE TRAP.

EVERY RAIN EVENT. MAKE REPAIRS AS NEEDED, REMOVE SEDIMENT FROM THE POOL

CLOGGED WITH SEDIMENT, PIT SHALL BE DISMANTLED AND CONSTRUCT NEW PITS AS NEEDED.

SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

SEDIMENT CONTROL", NOVEMBER 2016. 2. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT USED IMMEDIATELY FOR GRADING PURPOSES. INSTALL SILT FENCE AROUND SOIL

4. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS. CONSTRUCTION.

AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER APPROVAL OF

<u>FROSION CONTROL BLANKET:</u>
NSPECT THE BLANKET EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. REPLACE WIRE STAPLES AS REQUIRED. REPAIR AND RESEED WHERE CRACKS AND DAMAGED VEGETATION S EVIDENT. WHEN DAMAGED BEYOND REPAIR OR NO LONGER FUNCTIONING, THE

BLANKET SHALL BE REPLACED. AREAS DAMAGED BY EROSION SHALL BE REPAIRED IMMEDIATELY.

FEMPORARY SWALE:
NSPECT ALL EARTH DIKES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION SHALL BE REPAIRED IMMEDIATELY.

STORM DRAIN INLET PROTECTION: NSPECT ALL STORM DRAIN INLET PROTECTION DEVICES EVERY SEVEN DAYS & AFTER

REQUIRED) - INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PIPES OF OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES

SNOW AND ICE CONTROL:
PARKING LOTS, ROADWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND

3. APPLY SURFACE STABILIZATION AND RESTORATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED, SUSPENDED, OR INCOMPLETE AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED. (SEE SPECIFICATIONS FOR TEMPORARY VEGETATIVE COVER). AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT E REDISTURBED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. (SEE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER). SEEDING FOR PERMANENT VEGETATIVE COVER SHALL BE WITHIN THE SEASONAL LIMITATIONS. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.

5. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF 6. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.

CONTROL MEASURES SHALL BE REMOVED.

7. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT

EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STOCKPILES SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.

ANGLE FIRST STAKE-

LAID BALE

PLACED ON

CONTOUR

RE-BARS, STEEL PICKETS, OR 2"x2" STAKES

1 1/2 'TO 2'IN GROUND, DRIVE STAKES FLUSH

MAXIMUM SLOPE LENGTH(FT)

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW

2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4)INCHES AND PLACED SO

3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS

4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY

5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO

6. HAY OR STRAW BALE DIKES SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM

7. HAY OR STRAW BALE DIKES SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS

MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A HAY OR STRAW BALE DIKE SHALL

HAY OR STRAW BALE DIKE DETAIL

NOT EXCEED 0.25 ACRES PER 100 FEET OF DIKE FOR SLOPES < 25%.

8. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING TO A HAY OR STRAW BALE DIKE

THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES

DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD

WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

THE BINDINGS ARE HORIZONTAL.

OF SHEET EROSION.

FLOWING TO THE BARRIER.

SHALL BE DRIVEN FLUSH WITH THE BALE.

BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

TOWARD PREVIOUSLY

-TEMPORARY SEED, SEE VEGETATIVE

COVER SPECIFICATIONS THIS SHEET

175 POUNDS PER ACRE

TOPSOIL, SEED, MULCH, AND FERTILIZE DISTURBED SOIL AREAS

FERTILIZER, SEED & MULCH DETAIL

-4" LAYER OF TOPSOIL

THAT WILL BE LEFT EXPOSED FOR 14 DAYS OR MORE.

**TEMPORARY TOPSOIL** 

**SECTION VIEW** 

1. MINIMUM DEPTH OF SWALE SHALL BE 12".

4. SLOPE OF SWALE SHALL BE MINIMUM 2%.

PERMANENT GRASS

SCALE: NOT TO SCALE

2. SWALE SHALL BE AT LEAST 6 FEET WIDE AT TOP.

. SWALE SHALL BE SEEDED AND MULCHED WITH FAST

GERMINATING RYE 15 LBS. TO 25 LBS. PER 1,000 SF.

LINED DIVERSION SWALE DETAIL

SCALE: NOT TO SCALE

-FERTILIZER: COMMERCIAL 5-10-5,

\_TOPSOIL: A NATURAL, FERTILE

AGRICULTURAL SOIL CAPABLE OF

SUSTAINING VIGOROUS PLANT GROWTH.

COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE

SCALE: NTS

3. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:

A. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL. B. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C. C. CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.

SIEVE DESIGNATION % PASSING 97-100 NO 200 20-60

D. CONTAINING THE FOLLOWING WASHED GRADATIONS:

APPLICATION AND GRADING TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER. 2. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDED, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

**VEGETATIVE COVER SPECIFICATIONS:** 

TEMPORARY VEGETATIVE COVER (DURING CONSTRUCTION) SITE PREPARATION (SAME AS PERMANENT VEGETATIVE COVER)

2. SEED MIX: (APPLY AT RATE OF 3 TO 4 LBS PER 1000 SF) MINIMUM % MOUNT BT:

WEIGHT SPECIES OR VARIETY PURITY GERMINATION

100% ANNUAL RYEGRASS 98% 90%

SEEDING (SAME AS PERMANENT VEGETATIVE COVER)

<u>PERMANENT VEGETATIVE COVER (AFTER CONSTRUCTION):</u> SITE PREPARATION

A. BRING AREA TO BE SEEDED TO REQUIRED GRADE. A MINIMUM OF 4" OF TOPSOIL IS REQUIRED. . PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4 INCHES. REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE

. LIME TO PH OF 6.5. FERTILIZER: USE 5-10-5 (NPK) OR EQUIVALENT. APPLY AT RATE OF 4 LBS/1000 SF. INCORPORATE LIME AND FERTILIZER IN THE TOP 4 INCHES OF TOPSOIL. G. SMOOTH AND FIRM THE SEEDBED.

2. SEED MIXTURE FOR USE ON LAWN AREAS: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. LAWN SEED MIX: (APPLY AT RATE OF 5 TO 6 LBS PER 1000 SF)

MINIMUM % PURITY GERMINATION 95% 80% WEIGHT SPECIES OR VARIETY KENTUCKY BLUE GRASS\*

20% PERENNIAL RYE CREEPING RED FESCUE 97% \*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS.

MINIMUM % WEIGHT SPECIES OR VARIET GERMIN<u>ATION</u> KENTUCKY BLUE GRASS\*\* 20% PERENNIAL RYE 98% 90% CREEPING RED FESCUE 97% 85%

\*\*SHADE TOLERANT VARIETY A. APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER OR HYDRO-SEEDER AT RATE B. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS:

i. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS /ACRE MIN., TO BE APPLIED ONCE SEEDING IS COMPLETE. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY HYDROSEEDER AT RATE OF 2,000

C. ALL SEÉDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO DISLODGE PLANTING SOIL.

UNLESS OTHERWISE DIRECTED IN WRITING, SEED FROM MARCH 15TH TO JUNE 15TH, AND FROM AUGUST 15TH TO OCTOBER 15TH.

COMPACTION REQUIREMENTS COMPACTION TESTING FREQUENCY

CHEWINGS RED FESCUE

		1
PIPE TRENCH BACKFILL (IN PAVED AREAS)	95% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 FT OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
PIPE TRENCH BACKFILL (IN UNPAVED AREAS)	90% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 LF OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
PIPE BEDDING AND PIPE ZONE BACKFILL	95% ASTM D1557	1 TEST FOR EACH 150 FT OR LESS OF TRENCH LENGTH.
PAVEMENT SUBBASE AND LAST LIFT OF SELECT GRANULAR FILL (FILL BETWEEN SHEET PILES)	95% ASTM D1557	1 TEST FOR EVERY 2,000 SQ FT, OF LIFT AREA BUT NO FEWER THAN TWO TESTS PER LIFT

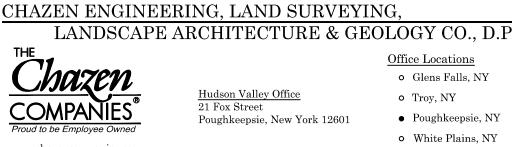
# FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



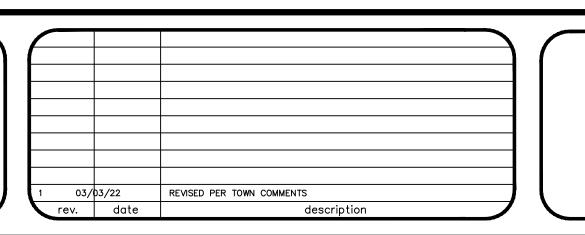


**END ROLL OVERLAP** 



(888) 539-9073

New York City, NY



**GAS LAND 5200 ROUTE 9W** 

**EROSION & SEDIMENT CONTROL DETAILS AND NOTES** 

TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

81912.00 C520

designed | checked

| CPL

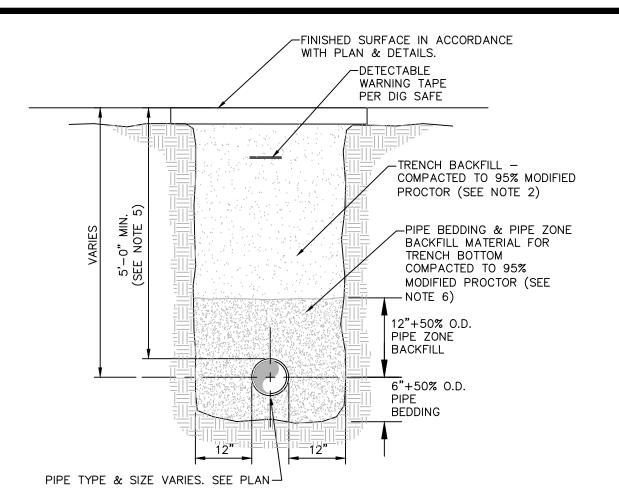
scale 01/20/22|AS SHOW

SMD

project no.

Drawing Name: B:\GLOBAL\Legacy\Chazen\Projects\81900—81999\81912.00 Gas Land Town of Newburgh Route 9 W\DWG\05\_PLAN\_C520—C521\_81912—00\_EROSD.dwg Xref's Attached: XTB 30X42 81912-00 Date Printed: Mar 04, 2024, 4:41pm

ORIGINAL SCALE IN INCHES



PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE

SIEVE DESIGNATION 100% 0-70% NO. 40

FOLLOWING GRADATION REQUIREMENTS:

2. TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION **% PASSING** 

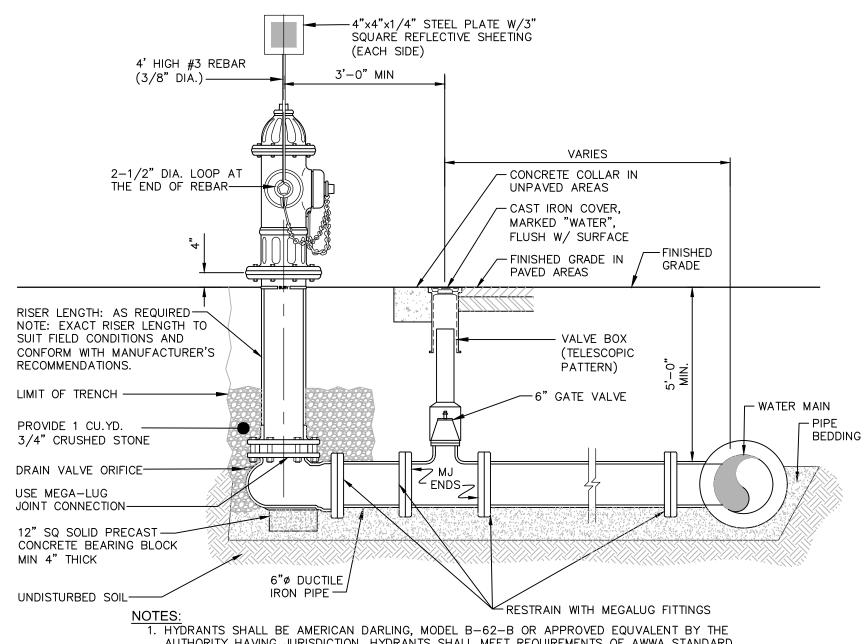
IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.

3. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS &

4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS. 5. 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER FORCE MAINS ONLY.

6. BEDDING AND PIPE ZONE MATERIAL SHALL BE SAND ONLY FOR COPPER WATER





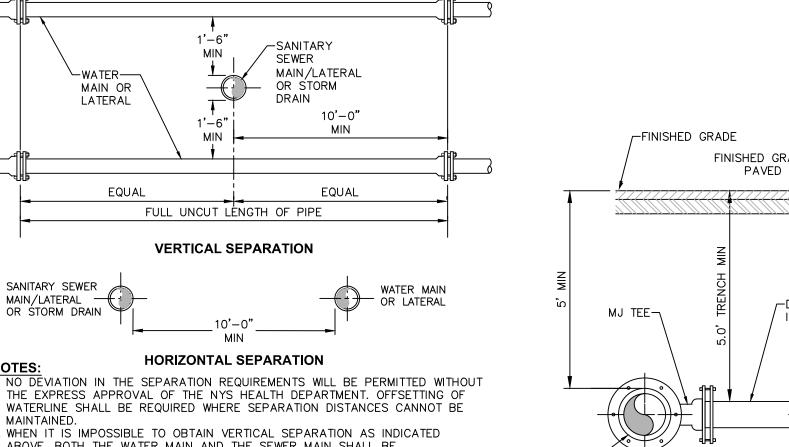
AUTHORITY HAVING JURISDICTION. HYDRANTS SHALL MEET REQUIREMENTS OF AWWA STANDARD 2. BOTTOM VALVE DIAMETER SHALL BE 5-1/4 INCHES.

FEET (7') OF FINISHED GRADE. 4. EACH NEWLY INSTALLED FIRE HYDRANT WITHIN THE PUBLIC RIGHT-OF-WAY SHOULD BE FLOW TESTED BY THE FIRE DEPARTMENT TO DETERMINE ITS CAPACITY. EACH FIRE HYDRANT SHOULD BE PAINTED WITH APPROPRIATE MARKINGS OR PROVIDED WITH A REFLECTIVE HYDRANT

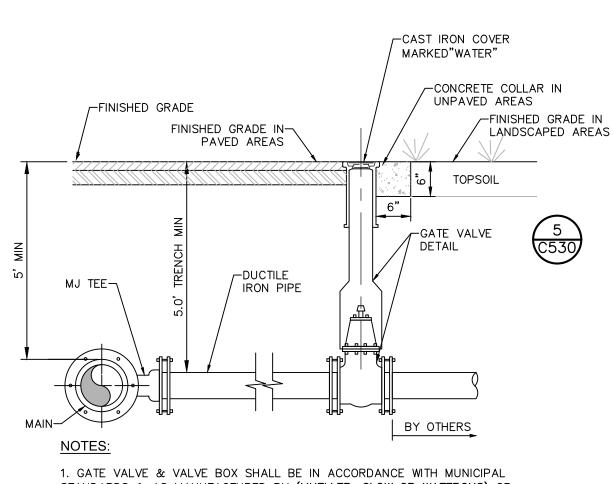
COLLAR TO IDENTIFY ITS FLOW CAPACITY PER THE FIRE DEPARTMENT REQUIREMENTS.

3. WEEP HOLES SHALL BE PLUGGED IF GROUNDWATER OR MOTTLING IS OBSERVED WITHIN SEVEN

HYDRANT ASSEMBLY DETAIL



NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE NYS HEALTH DEPARTMENT. OFFSETTING OF WATERLINE SHALL BE REQUIRED WHERE SEPARATION DISTANCES CANNOT BE MAINTAINED. 2. WHEN IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS INDICATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT, DUCTILE IRON PIPE OR PVC WATER WORKS GRADE PRESSURE PIPE FOR 10' EACH SIDE OF CROSSING AND SHALL BE PRESSURE TESTED TO 150psi TO ASSURE WATER TIGHTNESS. SANITARY/STORM SEWER AND **WATERMAIN SEPARATION DETAIL** SCALE: NOT TO SCALE



STANDARDS & AS MANUFACTURED BY (MUELLER, CLOW OR WATEROUS) OR

SCALE: NOT TO SCALE

WATERLINE

FINISHED GRADE

COMPACTED

\_\_SANITARY SEWER

. WHEN THE ELEVATION OF THE SEWER CAN NOT BE VARIED TO

MEET THE ABOVE REQUIREMENTS, THE WATER MAIN SHALL BE

2. WHEN IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS

10' EACH SIDE OF CROSSING AND SHALL BE PRESSURE

TESTED TO 150 PSI TO ASSURE WATER TIGHTNESS.

SCALE: NOT TO SCALE

INDICATED ABOVE, BOTH THE WATER MAIN AND THE SEWER

WATERLINE OFFSET DETAIL

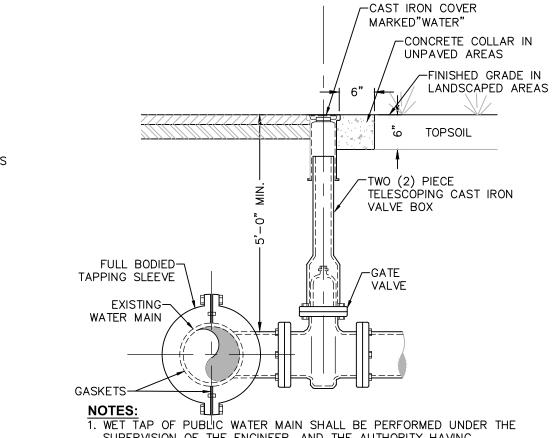
MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT DUCTILE

IRON PIPE OR PVC WATER WORKS GRADE PRESSURE PIPE FOR

RELOCATED TO PROVIDE THIS REQUIRED SEPARATION.

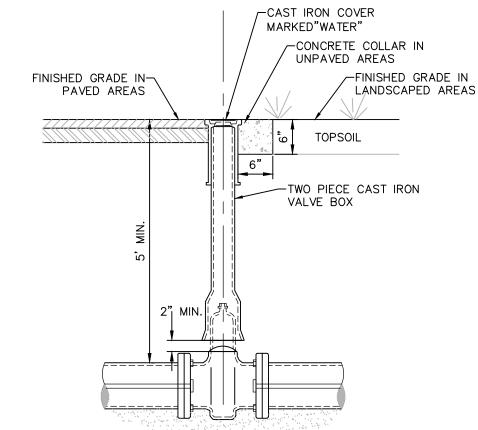
PIPE BEDDING-

**ELBOW** 

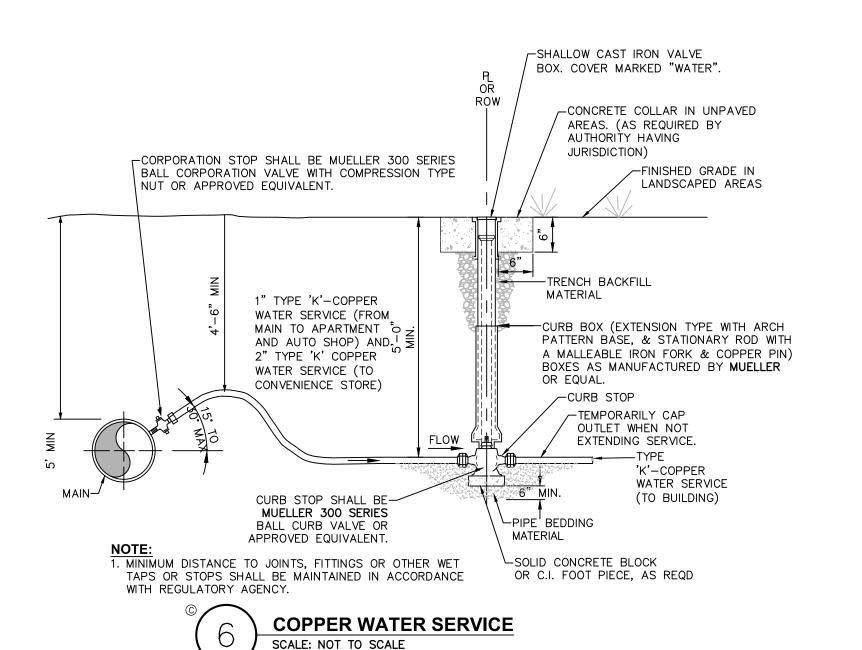


SUPERVISION OF THE ENGINEER, AND THE AUTHORITY HAVING JURISDICTION. 2. TAPPING SLEEVE AND VALVE SUPPORT SHALL BE COORDINATED WITH THE ENGINEER TO SUIT FIELD CONDITIONS. 3. MINIMUM DISTANCE TO JOINTS, FITTINGS, OR OTHER WET TAPS OR STOPS SHALL BE 3 FEET. 4. VALVE OPERATING DIRECTION SHALL BE COUNTERCLOCKWISE TO OPEN 5. TAPPING SLEEVE SHALL BE SELECTED TO FIT EXISTING PIPE MATERIAL ( C.I., D.I., A.C. ) AND OUTSIDE DIAMETERS. 6. THRUST BLOCK IS REQUIRED WHERE THE BRANCH OF THE TAPPING SLEEVE DOES NOT HAVE RESTRAINED JOINT. 7. TAPPING SLEEVE, VALVE & VALVE BOX SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS & AS MANUFACTURED BY (MUELLER, CLOW OR WATEROUS) OR APPROVED EQUIVALENT.

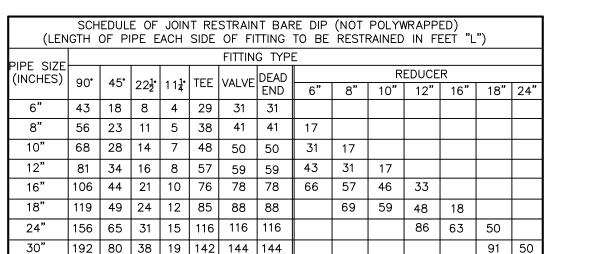




. NON-RISING STEM GATE VALVE, OPERATING DIRECTION SHALL BE COUNTERCLOCKWISE TO OPEN. 2. MINIMUM DISTANCE TO JOINTS, FITTINGS, OR OTHER WET TAPS OR STOPS 3. IF VALVE IS TO BE RODDED, PROVIDE VALVE WITH RODDING FLANGES OR EYEBOLTS. TWO (2) 3/4" Ø GALVANIZED STEEL RODS WITH MALLEABLE IRON NUTS AT 180° SPACING SHALL BE USED FOR RODDING VALVES. FOR 12" DIA. PIPE OR LESS. FOR LARGER PIPE SIZES, SEE TABLE FOR NUMBER OF TIE RODS REQUIRED—"JOINT RESTRAINT OPTION DETAILS.) 4. GATE VALVE & VALVE BOX SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS & AS MANUFACTURED BY (MUELLER, CLOW OR WATEROUS)







1. THE LENGTH OF PIPE REQUIRING RESTRAINT IS BASED UPON THE FOLLOWING

A. BEDDING TYPE 2 - FLAT BOTTOM TRENCH, BACKFILL LIGHTLY CONSOLIDATED TO CENTER LINE OF PIPE. B. SOIL TYPE CLAY 1 - CLAY OF MEDIUM TO LOW PLASTICITY, LL<50, <25% COURSE PARTICLES [CL & CL-ML] :

CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELY CLAYS, SANDY CLAYS, SILTY CLAYS. LEAN CLAYS ML - INORGANIC SILTS, VERY FINE SAND, ROCK FLOUR, SILTY OR

CLAYEY FINE SANDS. C. PIPE IS BARE DUCTILE IRON PIPE (NOT POLYWRAPPED) D. DEPTH TO TOP OF PIPE 5'-0" MINIMUM . MAXIMUM OPERATING PRESSURE OF 150 PSI

2. FOR END PLUGS, RESTRAIN PIPE LENGTH GIVEN FOR DEAD END FITTING.

3. THE LENGTH OF NEW PIPE TO BE RESTRAINED IS THE LENGTH FOR EACH SIDE OF

4. THE ABOVE INFORMATION WAS PROVIDED USING THE THRUST RESTRAINT PROGRAM ISSUED BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) AND IS BASED ON THE ASSUMPTIONS LISTED IN NOTE 1. RESTRAINED LENGTH REQUIREMENTS FOR FIELD CONDITIONS AND PIPE SIZES DIFFERING FROM THOSE LISTED ABOVE SHOULD BE EVALUATED SEPARATELY.

5. RESTRAINED JOINT PIPE AND FITTINGS SHALL BE USED ONLY AS ALLOWED BY THE PROJECT PLANS AND/OR SPECIFICATION.



F. FACTOR OF SAFETY OF 1.5

JOINT RESTRAINT SCHEDULE AND NOTES SCALE: NOT TO SCALE

# **GENERAL CONSTRUCTION NOTES**

1. ALL UTILITY WORK INVOLVING CONNECTION TO EXISTING MUNICIPAL WATER MAIN SHALL BE COORDINATED WITH OWNER AND OWNER'S REPRESENTATIVE. NOTIFY OWNER AND THE OWNER'S REPRESENTATIVE 3 WORKING DAYS BEFORE CONNECTION IS MADE. 2. THE CONTRACTOR SHALL VERIFY THE PRESENCE OF AND EXACT LOCATION OF ALL JTILITIES PRIOR TO COMMENCING ANY EXCAVATION WORK AS THE EXACT LOCATION OF

UTILITIES MAY DIFFER FROM THE LOCATION SHOWN, AND ADDITIONAL UTILITIES MAY

- 3. THE CONTRACTOR SHALL REVIEW ALL FIELD UTILITY MARKOUT INFORMATION AND BRING ANY CONFLICTS TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO COMMENCING ANY WORK OPERATIONS. TEST PITS MAY BE REQUIRED BY THE CONTRACTOR TO VERIFY ACTUAL UTILITY LOCATIONS AND/OR DEPTHS. TEST PIT OPERATIONS WILL MEET ALL NECESSARY REQUIREMENTS AS SET FORTH IN THESE PLANS, DETAILS, FEDERAL/STATE/LOCAL REGULATIONS AND ANY SPECIFIC PERMIT REQUIREMENTS.
- 4. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE 3 WORKING DAYS PRIOR TO SUCH EXCAVATIONS TO ENSURE THEIR
- 5. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING FOR THE PROPOSED STRUCTURES AND WATER LINES AS THE EXACT LOCATION OF UNDERGROUND STRUCTURES AND UTILITIES ARE NOT KNOWN. ANY DAMAGE TO EXISTING STRUCTURES/UTILITIES ABOVE OR BELOW GRADE, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT HIS OWN EXPENSE.

# **WATER LINE NOTES:**

- 1. THE WATER LINE MAY BE FLEXED WITHIN PIPE SPECIFICATIONS OR LAID DEEPER IN AREAS WHERE A CROSSING WITH A SANITARY LINE OCCURS, TO ACHIEVE THE REQUIRED 1.5' VERTICAL SEPARATION DISTANCE. IF THIS DISTANCE CANNOT BE REASONABLY ACHIEVED, THE CONTRACTOR SHALL USE PRESSURE RATED SANITARY SEWER PIPE OF EQUAL OR GREATER RATING THAT THE PRESSURE CLASS FOR THE WATER LINE.
- 2. MINIMUM VERTICAL SEPARATION BETWEEN WATER LINES AND SEWER PIPE SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. IN ADDITION, WHEN THE WATER LINE PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECT FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER PIPE ON THE WATER LINE. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER LINES AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS. 3. ALL WATER LINES SHALL HAVE A MINIMUM OF (5) FIVE FEET OF COVER FROM THE TOP OF THE LINE TO FINISHED GRADE. THE CONTRACTOR SHALL CHECK ALL FINISHED GRADE STAKES BEFORE TRENCHING TO ENSURE THAT ALL INSTALLED WATER LINES
- WILL HAVE THE REQUIRED COVER. 4. THE CONTRACTOR SHALL COORDINATE THE TESTING WITH THE WATER DEPARTMENT SC AS TO MAINTAIN THE AMOUNT OF SERVICE INTERRUPTION TO EXISTING USERS TO THE LEAST EXTENT PRACTICABLE. WATER LINE INSTALLATION AND TESTING SHALL B PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER OR HIS DESIGNEE AS NECESSARY TO MEET CONDITIONS IN NOTE 5 ABOVE.
- 5. ALL NEW WATER LINE INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C 600(LATEST REVISION) AT A PRESSURE OF 150 PSI, OR 1.5 TIMES (AS REFERENCED ABOVE) THE WORKING PRESSURE OF THE SYSTEM AS A MINIMUM. ALLOWABLE LEAKAGE OF THIS TEST SHALL BE AS DEFINED IN SECTION 4.2 OF SAID AWWA SPECIFICATION.
- 6. APPROVED AND TESTED WATER LINE SHALL BE DISINFECTED PER AWWA SECTION C 651 (AS REFERENCED ABOVE), AS DIRECTED BY ENGINEER.
- 7. THE WATER LINE SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651 (LATEST REVISION). FOLLOWING DISINFECTION, THE WATER MAIN SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. THE PROJECT ENGINEER OR HIS DESIGNEE SHALL ALSO WITNESS DISINFECTION AND FLUSHING.
- 8. FIRE HYDRANTS WEEP HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN SEVEN FEET OF THE FINISHED GRADE. WHEN DRAINS ARE PLUGGED. THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. SUCH HYDRANTS SHALL BE IDENTIFIED BY MARKINGS APPROVED BY THE TOWN WATER DEPARTMENT.
- 9. PROPOSED WATER METERS LOCATED WITHIN THE METER PIT OR BUILDING SHALL BE A COMPATIBLE REMOTE STYLE TYPE, AND SHALL BE APPROVED BY THE TOWN WATER DEPARTMENT PRIOR TO INSTALLATION. 10. THE WATER LINE SHALL BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT
- 11. FINAL WATER DISTRIBUTION SYSTEM IS SUBJECT TO REVIEW, REVISION AND APPROVAL BY THE TOWN WATER DEPARTMENT.
- 12. ALL WATER LINES AND RELATED APPURTENANCES SHALL BE CONSTRUCTED TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE TOWN. 13. THE WATER LINE SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE
- 14. ALL WATER SERVICE CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE TOWNWATER DEPARTMENT PRIOR TO BACKFILLING
- 15. THE SITE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BURIED PIPING TO THE LOCATION OF THE PROPOSED BUILDING CONNECTION POINT (I.E. INSIDE THE BUILDING). THIS INCLUDES THE TESTING AND CERTIFICATION OF ALL WATER SERVICE WORK FROM THE TOWNWATER CONNECTION POINT TO THE PROPOSED BUILDINGS INTERIOR CONNECTION POINT.
- 16. ALL WATER SERVICE PIPING INSTALLATION, BACKFILL AND TESTING SHALL BE REVIEWED, AND APPROVED BY THE TOWN WATER MAINTENANCE SUPERVISOR OR HIS

HIGH POINTS OR LOW POINTS.

- WATER DISINFECTION NOTES: APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER A.W.W.A. SECTION C651, LATEST EDITION. TABLET OR POWDERED METHOD IS NO
- 2. THE CONTRACTOR SHALL NOTIFY THE MUNICIPALITY AND THE PROJECT ENGINEER 48 HOURS PRIOR TO DISINFECTING THE SERVICE LINES.

3. DISINFECTED WATER MUST REMAIN IN THE WATER MAINS FOR A MINIMUM OF

- 24 HOURS BEFORE BEING THOROUGHLY FLUSHED OUT. 4. WATER SERVICE LINES SHALL BE DISINFECTED AS PER AWWA SECTION C651 A. CHLORINE CONCENTRATION IN WATER LINES SHALL BE NO LESS THAN 50 MG/L AT START OF 24-HOUR TEST. B. CHLORINE RESIDUAL SHALL BE NO LESS THAN 10 MG/L AT END OF
- 5. PRIOR TO RECEIVING CERTIFICATE OF OCCUPANCY, MICROBIOLOGICAL SAMPLES SHALL BE COLLECTED FROM BOTH ENDS AND THE MIDDLE OF EACH NEW LINE. ALL LINES SHALL NOT BE USED UNTIL MICROBIOLOGICAL SAMPLES ARE ACCEPTED BY THE TOWN. RESULTS OF ALL MICROBIOLOGICAL TESTING SHALL BE SUBMITTED TO THE TOWN ALONG WITH ENGINEER'S CERTIFICATE OF

# **WATER NOTES:**

1. SHEETING AND EXCAVATION BRACING FOR THE WATERMAIN INSTALLATION SHALL BE PROVIDED IN ACCORDANCE WITH OSHA REQUIREMENTS TO SUIT EXISTING SOIL CONDITIONS. SHEETING, IF REQUIRED, SHALL BE TIGHT WOOD SHEETING AND SHALL BE LEFT IN PLACE, AND AFTER BACKFILLING SHALL BE CUT AT GROUND LEVEL OR AS ORDERED BY THE OWNER'S REPRESENTATIVE.

2. MATERIALS USED IN CONSTRUCTION THAT WILL CONTACT POTABLE WATER SHALL BE ANSI/NSF 61 CERTIFIED OR EQUIVALENT.

# TESTING WATER MAINS:

- 1. AFTER TRENCH HAS BEEN BACKFILLED, HYDROSTATIC ACCEPTANCE TESTS, CONSISTING OI A PRESSURE TEST AND A LEAKAGE TEST, SHALL BE PERFORMED ON ALL SECTIONS OF WATER MAINS INSTALLED. LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH PRESSURE TEST. TEST SECTION SHALL BE LIMITED TO ABOUT 2000 FT (MAX.) UNLESS OTHERWISE APPROVED BY THE ENGINEER. 2. AFTER ALL TESTS AND INSPECTIONS HAVE BEEN PERFORMED EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE MUNICIPALITY PRIOR TO
- 3. ALL WATER FOR TESTS SHALL BE FURNISHED AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. SOURCE AND/OR QUALITY OF WATER WHICH THE CONTRACTOR PROPOSES TO USE IN TESTING LINES SHALL BE ACCEPTABLE TO THE

4. HYDROSTATIC PRESUMPTIVE TESTS MAY BE PERFORMED WHEN SYSTEM IS PARTIALLY

- BACKFILLED TO SIMPLY CHECK WORK, BUT ACCEPTANCE OF SYSTEM SHALL BE BASED ON HYDROSTATIC TESTS RUN ON FINISHED SYSTEM AFTER IT HAS BEEN COMPLETELY BACKFILLED. ALL HYDROSTATIC TESTS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4 OF AWWA STANDARD C 600 OR LATER ADDITION, AS MODIFIED HEREIN. 5. FOR THE PRESSURE TEST, SYSTEM SHALL BE PRESSURIZED AND MAINTAINED AT A MINIMUM OF 150 POUNDS PER SQUARE INCH, OR 1.5 TIMES THE WORKING PRESSURE WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION BEING TESTED AND CORRECTED TO THE ELEVATION OF THE GAUGE. PROVISIONS SHALL BE MADE TO RELIEVE AIR TRAPPED AT HIGH POINTS IN THE SYSTEM THROUGH TAPS AND CORPORATION STOPS INSTALLED FOR THIS PURPOSE BY THE CONTRACTOR. AFTER SAID PRESSURE HAS BEEN MAINTAINED SUCCESSFULLY, WITH FURTHER PUMPING
- AS REQUIRED, FOR A PERIOD OF AT LEAST TWO HOURS, THE SECTION UNDER TEST SHALL BE CONSIDERED TO HAVE PASSED THE PRESSURE TEST. 6. LEAKAGE TEST SHALL BE PERFORMED CONCURRENTLY USING A MINIMUM TEST PRESSURE OF 150 LBS/SQUARE INCH, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER. BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION UNDER TEST AND CORRECTED TO ELEVATION OF THE GAUGE. LEAKAGE TEST DURATION SHALL BE A
- MINIMUM OF 2 HOURS AFTER LEAKAGE RATE HAS STABILIZED. 7. MAXIMUM ALLOWABLE LEAKAGE SHALL BE AS SHOWN IN THE FOLLOWING TABLE: ALLOWABLE LEAKAGE PER 1000 FT (305M) OF PIPELINE (GPH)

#### AVG. TEST PRESSURE NOMINAL PIPE DIAMETER-IN. 1.64 0.90 0.85 1.34 1.28 1.57 1.50 0.64 0.41 0.38 0.61 0.57 1.22 1.15 1.42 1.34 0.76 0.96 1.25 1.16 0.54 0.50 0.72 0.66 0.89 0.83 1.07 0.99 0.60 0.91

1. IF LEAKAGE IN SYSTEM EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL, AT NO ADDED COST TO THE OWNER, LOCATE, REPAIR, AND/OR REPLACE DEFECT(S) AND

FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

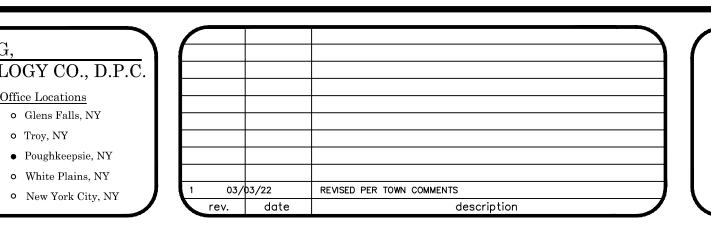
ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT, OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC

DESCRIPTION OF THE ALTERATION.



CHAZEN ENGINEERING, LAND SURVEYING, (888) 539-9073

LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P. Glens Falls, NY <u>Hudson Valley Office</u> Troy, NY 21 Fox Street Poughkeepsie, NY Poughkeepsie, New York 12601 White Plains, NY



GAS LAND 5200 ROUTE 9W

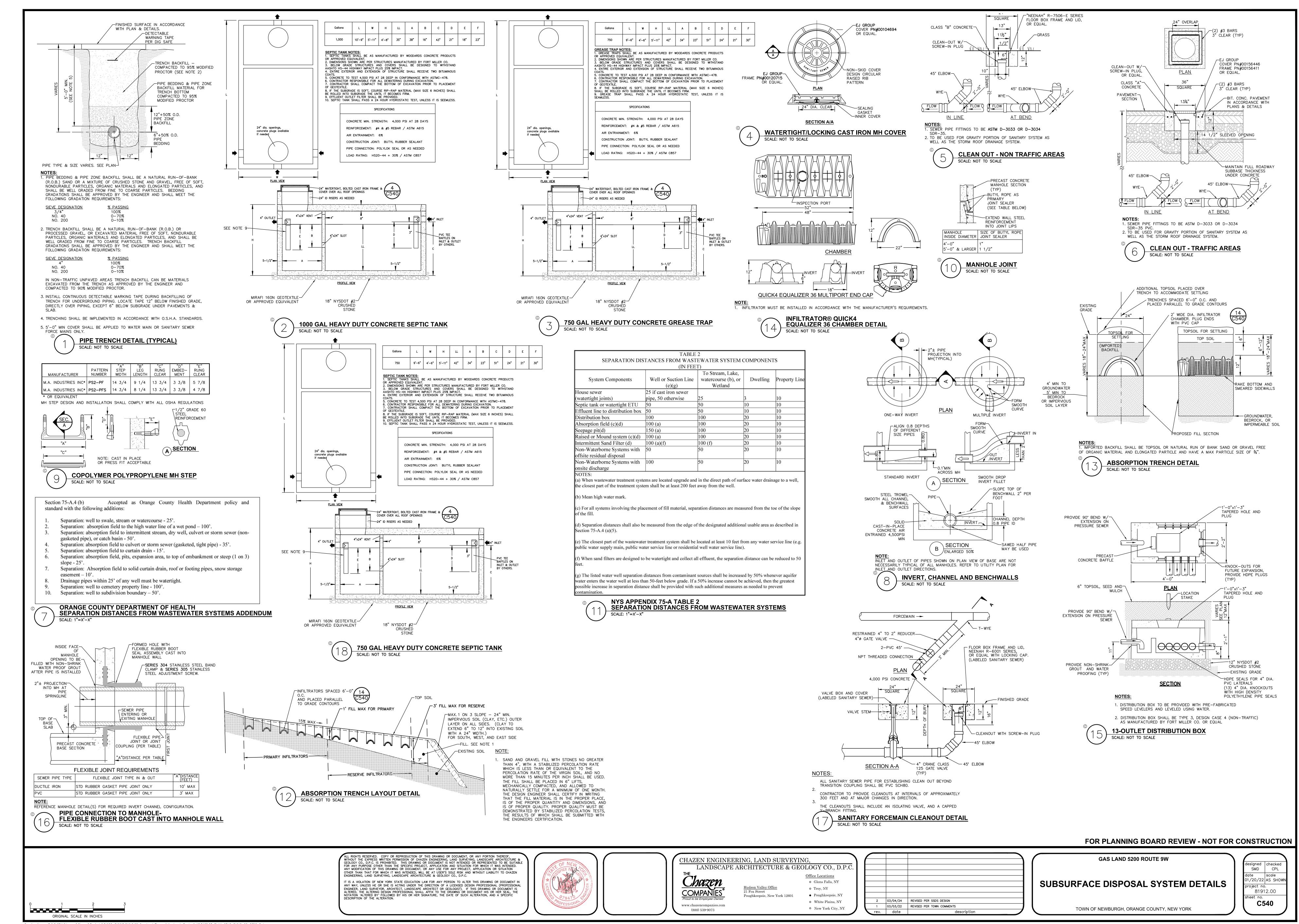
**WATER DETAILS** 

TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

designed | checked SPL | CPL scale 01/20/22 AS SHOW project no. 81912.00 C530

ORIGINAL SCALE IN INCHES

Drawing Name: B:\GLOBAL\Legacy\Chazen\Projects\81900—81999\81912.00 Gas Land Town of Newburgh Route 9 W\DWG\05\_PLAN\_C530\_81912—00\_WATRD.dwg Xref's Attached: XTB 30X42 81912-00 Date Printed: Mar 04, 2024, 4:41pm



Xref's Attached: XTB\_30X42\_81912-00 Date Printed: Mar 04, 2024, 4:41pm

Drawing Name: B:\GLOBAL\Legacy\Chazen\Projects\81900-81999\81912.00 Gas Land Town of Newburgh Route 9 W\DWG\05\_PLAN\_C540\_81912-00\_SSDS-D.dwg

#### <u>SOIL TE</u>ST RESULTS

PERCOLATION TESTS – 2023-09-05										
TEST HOLE NO.	TEST HOLE DEPTH	PRE- SOAKED	TEST RUNS						STABILIZATION TIME	
		L	*	1	2	3	4	5		
			9:26 AM	9:45 AM	9:58 AM	10:16 AM	10:16 AM		20 min	
PT-1-1 24"	24"	Yes	9:39 AM	9:58 AM	10:16 AM	10:36 AM	10:36 AM			
			13	13	18	20	20			
			9:27 AM	9:44 AM	10:06 AM	10:35 AM				
PT-1-2	24"	Yes	9:43 AM	10:06 AM	10:35 AM	11:05 AM			30 min	
			16	22	29	30				
			9:27 AM	9:41 AM	9:52 AM	10:03 AM				
PT-1-3	24"	Yes	9:38 AM	9:52 AM	10:03 AM	10:15 AM			12 min	
			11	11	11	12				

	DEEP TESTS - 2023-10-11								
Deep Test Hole No.	Date:	Test Hole Depth	Mottlin g Depth	Bedrock Depth	Water Depth	Soil Profile Description			
TP1-1	10/11/2023	96"	-	-	-	0"-24" Topsoil with roots 24"-96" Sandy loam with silt and small to medium cobbles			
TP1-2	10/11/2023	96"	-	-	-	0"-18" Topsoil with roots 18"-96" Silty loam with sand, pockets of clay, and small to medium cobbles			

# ORANGE COUNTY DEPARTMENT OF HEALTH

# **SEWAGE DISPOSAL SYSTEM NOTES:**

- SYSTEMS) SHALL NOT BE CHANGED WITHOUT REVIEW AND APPROVAL OF THE ORANGE COUNTY DEPARTMENT OF HEALTH 2. ALL WELLS WITHIN 300 FT. OF THIS PROJECT HAVE BEEN LOCATED AND ARE
- SHOWN ON THE PLANS. 3. TRENCHES SHALL NOT BE INSTALLED IN WET SOIL. THE SIDES AND BOTTOM OF TRENCHES MUST BE RAKED. THE ENDS OF THE LATERALS MUST BE CAPPED. 4. THERE SHALL BE NO REGRADING, EXCEPT AS SHOWN ON THE APPROVED PLANS,
- IN THE AREA OF THE ABSORPTION FIELDS. 5. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING 6. THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF
- CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
- 7. NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELD. 8. THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED ACCOUNT FOR THEM AND REAPPROVED BY THE ORANGE COUNTY HEALTH
- DEPARTMENT. 9. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE BUILDING, ALLOWING SEPTIC GASES
- 10. THE OWNER/APPLICANT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY
- 11. PROVIDE NOTES FOR ANY OF THE FOLLOWING THAT MAY APPLY:

TO DISCHARGE THROUGH THE STACK VENT.

WWW.UDIGNY.ORG).

- 11.1. SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3
- 11.2. PUMP STATIONS/DOSING CHAMBERS SHOULD BE INSPECTED PERIODICALLY BY A PROPERLY TRAINED PERSON FOR PROPER OPERATION, INCLUDING HIGH WATER ALARMS, VENTING AND ANY PHYSICAL DAMAGE. 11.3. DISTRIBUTION BOXES/DROP BOXES SHOULD BE INSPECTED ANNUALLY TO
- ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY. 12. \*INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION

COUNTY DEPARTMENT OF HEALTH BASED UPON REGULATIONS IN EFFECT AT THAT

- TO THE PUBLIC SEWER SYSTEM IS REQUIRED WITHIN 1 YEAR OF AVAILABILITY. 13. \*ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS, TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE
- TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION. 14. \*THIS NOTE MUST BE ADDED TO PAGE 1 OF THE PLANS \* UDIG NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION (DIAL 811 OR

HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS.

15. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (OR OTHER DESIGN PROFESSIONAL AS ALLOWED BY THE NYS EDUCATION DEPARTMENT) SHALL INSPECT THE SANITARY FACILITIES AT THE TIME OF CONSTRUCTION. THE ENGINEER SHALL CERTIFY TO THE ORANGE COUNTY DEPARTMENT OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS

#### **TESTING GRAVITY SEWER SYSTEM:**

- 1. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER . CONTRACTOR SHALL INSPECT AND TEST THE INSTALLATIONS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION WHEN WORK IS READY FOR TESTING. AFTER ALL TESTS HAVE BEEN PERFORMED, EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE.
  - 2. THE CONTRACTOR SHALL TEST AND INSPECT FOR ALIGNMENT OF ALL SANITARY SEWERS.
  - EACH MANHOLE-TO-MANHOLE SECTION SHALL BE REJECTED OR ACCEPTED BASED ONLY ON RESULTS OF ITS OWN INDEPENDENT SECTION TEST AND NOT ON RESULTS OF ANY ONE TEST RUN SIMULTANEOUSLY OVER MORE THAN ONE CONSECUTIVE MANHOLE-TO-MANHOLE SECTION. THE ONLY EXCEPTION ALLOWED: ACCEPTING SEVERAL CONSECUTIVE MANHOLE-TO-MANHOLE SECTIONS BASED ON ONE COMBINED INFILTRATION TEST INDICATING
  - 4. LOW PRESSURE AIR TESTING SHALL BE PERFORMED UNDER DIRECTION OF ENGINEER ACCORDING TO ASTM F1417. LOW PRESSURE AIR TEST IS A COMPARISON OF THE MEASURED TIME NECESSARY FOR ONE (1) PSIG PRESSURE DROP TO OCCUR, IF AT ALL, WITH MINIMUM ALLOWABLE TIME FOR THAT PRESSURE DROP TO OCCUR DETERMINED BY METHODS INDICATED IN ASTM F1417. IF THE ONE (1) PSIG PRESSURE DROP OCCURS
  - FASTER THAN ALLOWABLE TIME, SECTION IS UNACCEPTABLE. AN AIR TEST SHALL NOT BE RUN UNTIL SECTION OF LINE TO BE TESTED HAS BEEN CLEANED OF ALL FOREIGN MATERIAL BY FLUSHING AND HAS BEEN VISUALLY INSPECTED AND APPROVED BY THE ENGINEER. CERTAIN PIPE MATERIALS PRODUCE MORE CONSISTENT
  - RESULTS WHEN INTERIOR OF PIPE IS WETTED PRIOR TO TESTING. WHERE FLEXIBLE PIPE IS USED. CONTRACTOR SHALL TEST ALL MAINLINE PIPE FOR MAXIMUM ALLOWABLE DEFLECTION OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTS SHALL BE PERFORMED USING A CIRCULAR STEEL BALL ON SLED 1/16-INCH IN DIAMETER SMALLER THAN ALLOWABLE INSIDE DIAMETER OF FLEXIBLE PIPE WHEN DEFLECTED A MAXIMUM OF 5%
  - SEWERS SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES. STRAIGHT ALIGNMENT SHALL BE CHECKED EITHER USING A LASER BEAM OR LAMPING. TESTING SHALL

OF OUTSIDE DIAMETER. DEFLECTION TESTING OF ANY PIPE SHALL BE DONE NO SOONER THAN 30 DAYS AFTER DATE OF INSTALLATION OF PIPE SECTION UNLESS WRITTEN

- MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED. SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 9. IN AREAS WHERE CONVENTIONAL TESTING IS IMPRACTICAL (I.E. AREAS DESIGNATED BY ENGINEER WHERE EXISTING SERVICES ARE TIED INTO NEW LINE IMMEDIATELY AND ANY BLOCKAGE COULD RESULT IN HEALTH PROBLEMS) NO LINES SHALL BE BACKFILLED UNTIL EACH PIPE SECTION AND CONNECTION IS INSPECTED AND APPROVED.

COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

- 10. WHERE SEWERS ARE CONSTRUCTED OF PRESSURE-RATED PIPE AND INSTALLED WITH LESS THAN 18 INCHES VERTICAL SEPARATION FROM EXISTING OR PROPOSED WATER MAINS, SEWERS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI TO ASSURE WATER TIGHTNESS. HYDROSTATIC ACCEPTANCE TESTS SHALL BE CONDUCTED AS SPECIFIED FOR TESTING WATER MAINS, EXCEPT THAT TESTING MAY BE PERFORMED WITH THE PIPE SECTION PARTIALLY BACK-FILLED.
- 11. IF THE ALLOWABLE RATE OF AIR LEAKAGE IS EXCEEDED, THE CONTRACTOR SHALL LOCATE POINTS OF EXCESSIVE LEAKAGE AND SHALL PROMPTLY CORRECT, REPAIR, AND BRING SYSTEM UP TO THE STANDARD. COSTS OF ALL SUCH REPAIRS AND CORRECTIVE MEASURES, INCLUDING COSTS OF REPEATED TESTS, SHALL BE BORN BY CONTRACTOR, THE SEWER LINE SECTION (INCLUDING MANHOLES AND BUILDING SERVICES) UNDER TEST SHALL NOT BE ACCEPTED UNTIL THESE TEST CRITERIA ARE MET.
- 12. SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244. A VACUUM OF 10 INCHES OF Hg SHOULD BE DRAWN ON THE MANHOLE AFTER ALL HOLES ARE PLUGGED, AND INLETS/OUTLETS ARE TEMPORARILY PLUGGED AND SECURED. THE TIME IS MEASURED FOR THE VACUUM TO DROP TO 9 INCHES Hg. THE MANHOLE IS ACCEPTED IF THE MEASURED TIME MEETS OR EXCEEDS THE VALVES PRESENTED IN TABLE 1 OF ASTM C1244. IF THE MANHOLE FAILS THE INITIAL TEST, IT SHALL BE REPAIRED BY AN APPROVED METHOD UNTIL A SATISFACTORY TEST IS OBTAINED. MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED. SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

### SSDS NOTES:

- a. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL
- b. ALL WELLS WITHIN 300 FT. OF THE PROPOSED ONSITE WASTE WATER TREATMENT FACILITY HAVE BEEN LOCATED AND ARE SHOWN ON THE PLANS.
- c. TRENCHES SHALL NOT BE INSTALLED IN WET SOIL. THE SIDES AND BOTTOM OF TRENCHES MUST BE RAKED. THE ENDS OF THE LATERALS MUST BE CAPPED.
- d. THERE SHALL BE NO REGRADING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS.
- e. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
- f. NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELD.
- g. THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO ACCOUNT FOR THEM AND REAPPROVED BY THE ORANGE COUNTY HEALTH DEPARTMENT.
- h. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
- i. THE OWNER/APPLICANT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES. j. PROVIDE NOTES FOR ANY OF THE FOLLOWING THAT MAY APPLY:
  - SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS. • DOSING CHAMBERS SHOULD BE INSPECTED PERIODICALLY BY A PROPERLY TRAINED PERSON FOR PROPER OPERATION, INCLUDING HIGH WATER ALARMS, VENTING AND ANY PHYSICAL DAMAGE.

• DISTRIBUTION BOXES/DROP BOXES SHOULD BE INSPECTED PERIODICALLY TO

k. INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SEWER SYSTEM IS REQUIRED WITHIN 1 YEAR OF AVAILABILITY. I. ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT

OF HEALTH BASED UPON REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION

ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.

MAY BE REQUIRED TO OBTAIN A TIME EXTENSION. m. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (OR OTHER DESIGN PROFESSIONAL AS ALLOWED BY THE NYS EDUCATION DEPARTMENT) SHALL INSPECT THE SANITARY FACILITIES AT THE TIME OF CONSTRUCTION. THE ENGINEER SHALL CERTIFY TO THE ORANGE COUNTY DEPARTMENT OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT

# **SEWAGE FACILITIES DEMOLITION NOTES**

1. CONTRACTOR SHALL LOCATE AND REMOVE ALL COMPONENTS OF THE EXISITNG SSDS

ANY SEPTIC TANK JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS.

- 2. SEPTIC TANKS, LEACHING FIELDS, AND OTHER SIMILAR FACILITIES ASSOCIATED WITH THE
- 3. THE ABANDONMENT AND/OR DECOMMISSIONING OF ALL EXISTING SUBSURFACE DISPOSAL SYSTEMS MUST BE IN ACCORDANCE WITH THE PROCEDURES APPROVED BY THE COUNTY
- 4. TANKS SHALL BE PUMPED BY A DEC CERTIFIED SEEPAGE HAULER AND ITEMS REMOVED FROM SITE SHALL BE IN ACCORDANCE WITH DEC TRANSPORT AND DISPOSAL
- 5. A PROFESSIONAL ENGINEER SHALL CERTIFY TO THE PROPER ABANDONMENT OF THE SSDS AREA TO THE TOWN.

- 1. THE COMPLETE SEWAGE FORCE MAIN INCLUDING VALVES, FITTINGS CONNECTIONS TO PUMPS AND OTHER PIPELINE SYSTEMS SHALL BE TESTED FOR LEAKAGE. 2. THE SYSTEM SHALL BE PRESSURIZED TO 1.5 TIMES THE PIPE WORKING PRESSURE AT THE LOWEST POINT OF THE MAIN OR 100 PSI, WHICHEVER IS GREATER, . AFTER THIS PRESSURE, ±5 PSI, HAS BEEN MAINTAINED SUCCESSFULLY FOR ONE HOUR, THE LEAKAGE TEST SHALL BE PERFORMED FOR A PERIOD OF NO LESS THAN 2 HOURS. HYDROSTATIC TESTS SHALL BE PERFORMED AND SUCCESSFUL TEST RESULTS
- NECESSARY TO REDUCE THE LEAKAGE TO THE REQUIRED LIMITS AND RETEST THE SYSTEM. GALLONS PER 1000 FT OF PIPELINE (GPH).
- 0.57 0.54 0.51 0.47 0.45 0.43 0.41 0.38 0.36 0.33 0.30 0.27 0.26 0.24 0.23 0.22 0.21 0.19

#### SEPTIC TANK AND GREASE TRAP HYDROSTATIC TESTING:

- THE DROP IN WATER LEVEL AFTER 24 HOURS SHALL BE NOTED.

- . SEPTIC TANK AND GREASE TRAP SHALL BE TESTED FOR LEAKAGE AND ALL LEAKS SHALL BE REPAIRED IN A MANNER SUBJECT TO THE ENGINEER'S APPROVAL, UNLESS A SEAMLESS TANK IS DELIVERED TO THE SITE. A HYDROSTATIC SHALL BE PERFORMED IN CONFORMANCE WITH THE FOLLOWING REQUIREMENTS.
- 2. HYDROSTATIC TESTING - UNLESS OTHERWISE APPROVED, CONDUCT ALL TESTING IN THE PRESENCE OF THE
- NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF TESTING. - THE STRUCTURE SHALL BE COMPLETELY PLUGGED AND FILLED WITH WATER AND ALLOWED
- TO STAND FOR TWENTY FOUR (24) HOURS PRIOR TO ANY READING IN ORDER TO PERMIT ABSORPTION BY THE STRUCTURE. — AFTER TWENTY FOUR (24) HOURS, A READING SHALL BE TAKEN AND THE STRUCTURE ALLOWED TO STAND FOR 24 HOURS.
- LEAKAGE IN THE STRUCTURE SHALL NOT EXCEED THE ALLOWABLE LOSS OF 1 GALLON PER VERTICAL FOOT OF MANHOLE SECTION FOR A 24-HOUR PERIOD, PER TR-16 GUIDE FOR THE DESIGN OF WASTEWATER TREATMENT WORKS.
- STRUCTURE FAILING THE TEST SHALL BE REPAIRED AND RETESTED TO THE SATISFACTION - THE CONTRACTOR SHALL COORDINATE AND BEAR ALL COSTS FOR PROVISION AND DISPOSAL OF WATER NECESSARY FOR THE LEAK TESTING OF THE STRUCTURE.

#### **GREASE TRAP SIZING CALCULATIONS**

- PER THE 2014 NYSDEC DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS, GREASE TRAPS SHALL BE SIZED BASED ON THE 30-MINUTE DETENTION TIME OF
- PER TABLE E 103.3(2). LOAD VALUES ASSIGNED TO FIXTURES. IN THE NYS PLUMBING CODE THE LOAD VALUES, IN WATER SUPPLY FIXTURES UNITS (WSFU) OF A KITCHEN SINK ASSOCIATED WITH A HOTEL/RESTAURANT WOULD BE 4 FIXTURE UNITS.
- PER TABLE 709.1 DRAINAGE FIXTURE UNITS FOR FIXTURES AND GROUPS, IN THE NYS PLUMBING CODE, THE LOAD VALUES ASSOCIATED WITH FLOOR DRAINS WOULD BE 2 (REFER TO NOTE H - SEE SECTION 709.4 AND 709.4.1 OF PLUMBING CODE), FLOOR SINKS (REFER TO NOTE H SEE SECTION 709.4 AND 709.4.1 OF PLUMBING CODE). AND HANDWASH SINKS
- WOULD BE 2. 709.4 VALUES FOR INDIRECT WASTE RECEPTOR. THE DRAINAGE FIXTURE UNIT LOAD OF AN INDIRECT WASTE RECEPTOR RECEIVING THE DISCHARGE OF INDIRECTLY CONNECTED FIXTURES SHALL BE THE SUM OF THE DRAINAGE FIXTURE UNIT VALUES OF THE FIXTURES THAT DISCHARGE TO THE RECEPTOR, BUT NOT LESS THAN THE DRAINAGE FIXTURE UNIT
- 709.4.1 CLEAR-WATER WASTE RECEPTORS. WHERE WASTE RECEPTORS SUCH AS FLOOR DRAINS. FLOOR SINKS AND HUB DRAINS RECEIVE ONLY CLEAR-WATER WASTE FROM DISPLAY CASES, REFRIGERATED DISPLAY CASES, ICE BINS, COOLERS AND FREEZERS, SUCH RECEPTORS SHALL HAVE A DRAINAGE FIXTURE UNIT VALUE OF ONE HALF.

VALUE GIVEN FOR THE INDIRECT WASTE RECEPTOR IN TABLE 709.1 OR 709.2.

#### 1 KITCHEN SINKS AT 4 FIXTURE UNITS = 4 FIXTURE UNITS 1 BEVERAGE FOUNTAIN AT 0.25 FIXTURE UNITS = 0.25 FIXTURE UNITS 1 ICE MACHINE DRAIN AT 0.5 FIXTURE UNITS = 0.5 FIXTURE UNITS 0.5 FIXTURE UNITS 1 CONDENSATE DRAIN AT 0.5 =

2 HAND WASH SINKS AT 2 FIXTURE UNITS = 4 FIXTURE UNITS 1 FLOOR SINKS WITH HOT/COLD AT 4 FIXTURE UNITS = 4 FIXTURE UNITS

# TOTAL = 13.25 FIXTURE UNITS

TESTING OF THE SRUCTURE.

TOTAL FIXTURE UNITS

- PER TABLE E103.3(3) FOR ESTIMATING DEMAND IN THE NYS PLUMBING CODE THE DEMAND ASSOCIATED WITH 13.25 FIXTURE UNITS IS 17 GPM.
- TO ACHIEVE A 30 MINUTE DETENTION TIME THE TANK WOULD NEED TO BE: 17 GPM X 30 MIN= 510 GALLON TANK A 750 GALLON GREASE TRAP IS PROPOSED.

IF THE GREASE TRAP/SEPTIC TANK/PUMP STATION IS DELIVERED IN TWO PIECES

#### GREASE TRAP/SEPTIC TANK/PUMP STATION HYDROSTATIC TESTING:

- (NON-MONOLITHIC), THEY SHALL BE TESTED FOR LEAKAGE AND ALL LEAKS SHALL BE REPAIRED IN A MANNER SUBJECT TO THE ENGINEER'S APPROVAL. A HYDROSTATIC TEST SHALL BE PERFORMED IN CONFORMANCE WITH THE FOLLOWING REQUIREMENTS. 2. HYDROSTATIC TESTING
- UNLESS OTHERWISE APPROVED, CONDUCT ALL TESTING IN THE PRESENCE OF THE
- NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF TESTING. - THE STRUCTURE SHALL BE COMPLETELY PLUGGED AND FILLED WITH WATER AND ALLOWED TO STAND FOR TWO (2) HOURS PRIOR TO ANY READING IN ORDER TO PERMIT ABSORPTION BY THE WET WELL STRÚCTURE.
- AFTER TWO (2) HOURS, A READING SHALL BE TAKEN AND THE STRUCTURE ALLOWED TO STAND FOR 24 HOURS.
- THE DROP IN WATER LEVEL AFTER 24 HOURS SHALL BE NOTED. - LEAKAGE IN THE GREASE TRAP/SEPTIC TANK/PUMP STATION SHALL NOT EXCEED 0.6
- GALLONS/FT MANHOLE DIAMETER/FT OF MANHOLE DEPTH. - GREASE TRAP/SEPTIC TANK/PUMP STATION FAILING THE TEST SHALL BE REPAIRED AND RETESTED TO THE SATISFACTION OF THE ENGINEER. -THE CONTRACTOR SHALL COORDINATE AND BEAR ALL COSTS FOR PROVISION AND DISPOSAL OF WATER NECESSARY FOR THE LEAK

# SERVICING ALL BUILDINGS PROPOSED FOR DEMOLITION.

- EXISTING BUILDING SHALL BE PUMPED FREE OF SEPTAGE OR SEWAGE, REMOVED AND THE RESULTING HOLE SHALL BE BACKFILLED IN LIFTS OF COMPACTED SUITABLE FILL MATERIAL.
- DEPARTMENT OF HEALTH AND CERTIFIED BY A NYS PROFESSIONAL ENGINEER.

- DERIVED IN ACCORDANCE WITH AWWA C 600-05, SECTION 5. IN NO CASE SHALL THE TEST PRESSUR XCEED THE DESIGN PRESSURE LIMITS FOR ANY PIPE, THRUST RESTRAINT, FITTINGS, VALVES OR OTHER
- 3. IF THE LEAKAGE IN THE SYSTEM EXCEEDS THE SPECIFIED AMOUNT, MAKE ANY REPAIRS OR REPLACEMENTS THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE AS SHOWN IN THE FOLLOWING TABLE: ALLOWABLE LEAKAGE IN
  - AVG. TEST PRESSURE NOMINAL PIPE DIAMETER-IN

FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

designed |checked

81912.00

CPL

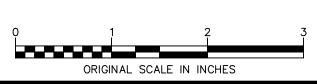
scale 01/20/22|AS SHOW

SMD

**GAS LAND 5200 ROUTE 9W** 

SUBSURFACE DISPOSAL SYSTEM DETAILS

TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK



ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT, OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC

DESCRIPTION OF THE ALTERATION.



(888) 539-9073

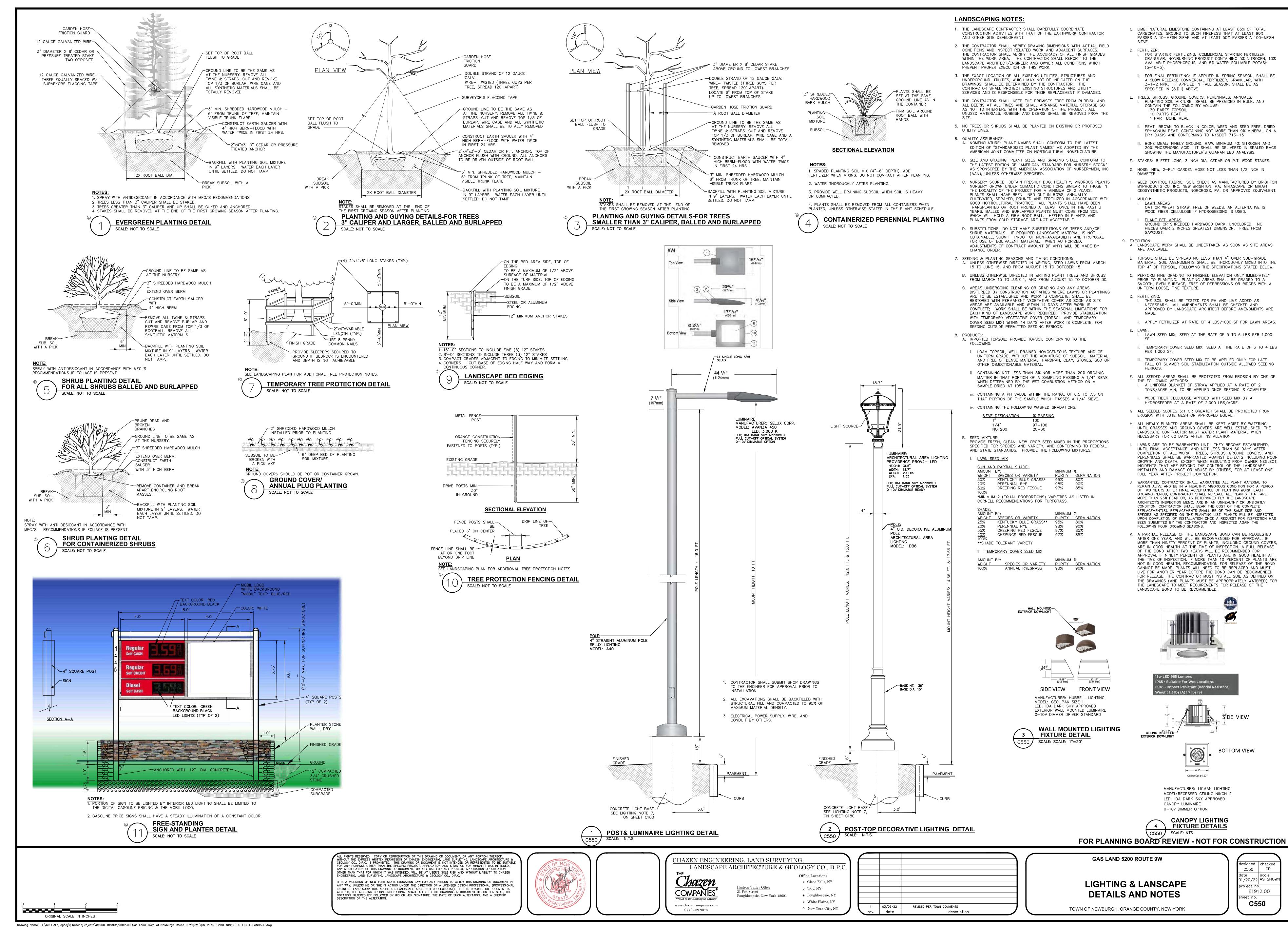
<u>Hudson Valley Office</u> 21 Fox Street Poughkeepsie, New York 12601

LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P

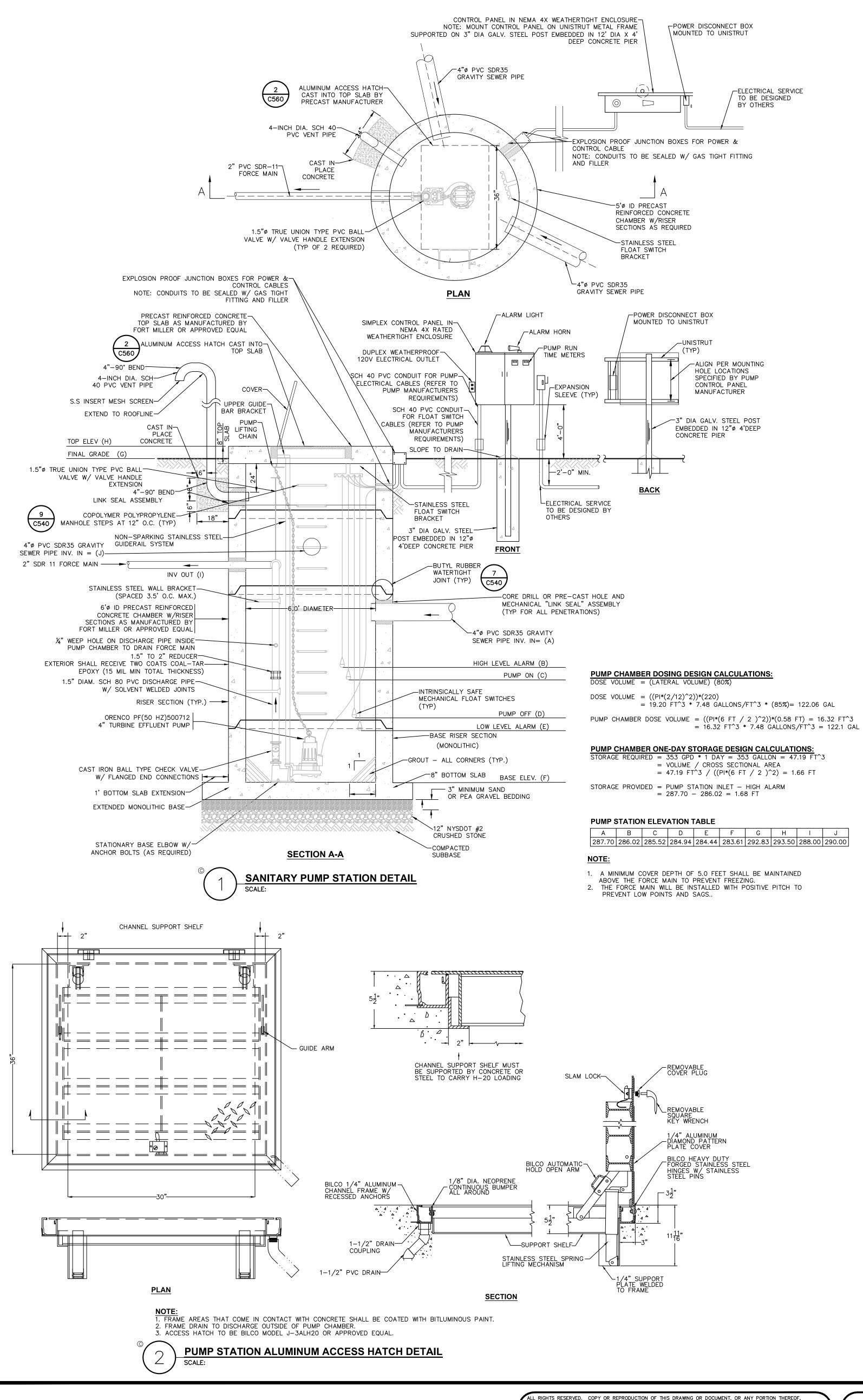
CHAZEN ENGINEERING, LAND SURVEYING,

 Poughkeepsie, NY White Plains, NY New York City, NY

 Glens Falls, NY Troy, NY 03/04/24 THIS SHEET ADDED date



Xref's Attached: XTB\_30X42\_81912-00 Date Printed: Mar 04, 2024, 4:45pm



#### **PUMP STATION NOTES:**

- 1. ALL PRE CAST CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE A.S.T.M. STANDARDS. CONCRETE TO TEST 4000 PSI AT 28 DAYS.
- 2. CONTRACTOR SHALL SUBMIT PRE CAST CONCRETE CHAMBER SHOP DRAWINGS INDICATING PERTINENT DIMENSIONING, REINFORCEMENT SIZES, SPACING, LOCATIONS AND QUANTITIES. CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS CREATED BY AN HS20-44 TRUCK PLUS 25% IMPACT AS DEFINED IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) DESIGN STANDARDS.
- 3. AN ALUMINUM WARNING PLATE SHALL BE RIVETED OR OTHERWISE PERMANENTLY ATTACHED TO THE CHAMBER. THE PLATE SHALL BE A MINIMUM OF 12" X 12" AND SHALL BE ENGRAVED WITH THE FOLLOWING LANGUAGE: "WARNING — CONFINED SPACE — ENTRY PROHIBITED WITHOUT AUTHORIZATION".
- 4. ALL MOUNTING HARDWARE INCLUDING BOLTS, NUTS, ANGLE BRACKETS AND OTHER MISC. ITEMS LOCATED WITHIN THE PUMP STATION SHALL BE OF NON-CORROSIVE CONST. (I.E.-STAINLESS STL., ALUM., GALV.) 5. ALL INSTALLATION SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION.
- 6. PROVIDE ADDITIONAL CONDUITS FOR CONTROL WIRING AS PER MANUFACTURER'S RECOMMENDATIONS. ALL CONDUITS SHALL BE GAS TIGHT SEALED.
- 7. MANHOLE STEPS SHALL BE ORIENTATED SUCH THAT ACCESS TO THE PUMP STATION WILL NOT BE RESTRICTED. STEPS SHALL BE COPOLYMER POLYPROPYLENE MANHOLE STEPS 12" O.C.
- 8. PROJECT ENGINEER AND OWNER'S REPRESENTATIVE SHALL BE NOTIFIED 72-HOURS PRIOR TO START UP AND TESTING OF THE
- 9. THE PUMP STATION SHALL BE PROVIDED WITH SUBMERSIBLE NON-CLOG SEWAGE PUMP INCLUDING CONTROL PANEL.
- 10. THE CONTROL PANEL SHALL INCLUDE THE FOLLOWING FEATURES AND ACCESSORIES:
- NEMA 4X AND UL RATED ENCLOSURE W/ LOCKABLE HATCH INTRINSICALLY SAFE RELAYS
- HAND-OFF-AUTO (HOA) TOGGLE SWITCH FOR EACH PUMP - INTRINSICALLY SAFÈ MÉCHANICAL FLOAT SWITCHES
- TOP MOUNTED ALARM LIGHT - ALARM HORN WITH SILENCE SWITCH - MANUAL RESET - AUXILIARY DRY CONTACTS FOR ALARMS
- CIRCUIT BREAKER PUMP DISCONNECT - GREEN RUN PILOT LIGHT FOR EACH PUMP
- SEAL FAIL INDICATOR LIGHTS - THERMAL OVERLOAD PROTECTION
- IN ADDITION THE CONTROL PANEL SHALL INCLUDE INDIVIDUAL PUMP RUN TIME METERS AND ONE WEATHER PROOF 120V DUAL GFI RECEPTACLE OUTLET.
- 11. ELECTRICAL SERVICE DESIGN FOR PUMP STATION BY OTHERS.
- 12. THE FOLLOWING ALARMS SHALL BE RELAYED TO AN ON-SITE CENTRAL LOCATION OR TO A 24-HOUR ON CALL SERVICE AT THE DIRECTION OF OWNER: -PUMP FAILURE -HIGH WATER/START PUMP
- -LOW WATER LEVEL -COMMUNICATION LINK FAILURE
- 13. PUMP STATION PROVIDES FOR A MINIMUM TWO(2) DAY'S STORAGE CAPACITY BETWEEN THE HIGH LEVEL ALARM AND PIPE INLET.
- 14. CONTRACTOR RESPONSIBLE FOR ALL DEWATERING DURING EXCAVATION. 15. CONTRACTOR SHALL COMPACT THE BOTTOM OF EXCAVATION PRIOR TO PLACEMENT OF GEOTEXTILE.
- 16. IF THE SUBGRADE IS SOFT, COURSE RIP-RAP MATERIAL (MAX SIZE 6 INCHES) SHALL BE ROLLED INTO SUBGRADE THE UNTIL IT BECOMES FIRM.
- 17. CONTRACTOR SHALL SUBMIT PRE CAST CONCRETE CHAMBER SHOP DRAWINGS INDICATING PERTINENT DIMENSIONING, REINFORCEMENT SIZES, SPACING, LOCATIONS AND QUANTITIES.
- 18. ALL PRE CAST CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE A.S.T.M. STANDARDS. CONCRETE TO TEST 4000 PSI AT 28 DAYS.
- 19. VENTS SHALL EXTEND A MINIMUM OF 3' ABOVE ROOF LINE.

### PUMP STATION START-UP INSTRUCTIONS:

- A. THE CONTRACTOR SHALL PROVIDE THREE (3) DAYS NOTIFICATION TO THE OWNER REPRESENTATIVES, PROJECT ENGINEER, AND BUILDING INSPECTOR, PRIOR TO START-UP OF THE PUMP STATION.
- B. THE CONTRACTOR SHALL ENSURE THAT EACH PIECE OF EQUIPMENT AND COMPONENT OF THE SYSTEM IS READY FOR
- C. THE CONTRACTOR SHALL EXECUTE START-UP UNDER THE SUPERVISION OF OWNER REPRESENTATIVES, PROJECT ENGINEER, BUILDING INSPECTOR, AND MUNICIPALITY HAVING JURISDICTION.
- D. THE CONTRACTOR SHALL SUBMIT A WRITTEN REPORT INDICATING THAT EACH PIECE OF EQUIPMENT AND COMPONENT OF THE SYSTEM HAS BEEN PROPERLY INSTALLED AND IS FUNCTIONING CORRECTLY. 2. DEMONSTRATIONS AND INSTRUCTIONS
- A. THE CONTRACTOR SHALL DEMONSTRATE OPERATION AND MAINTENANCE OF THE SYSTEM TO OWNER TWO (2) WEEKS PRIOR TO DATE OF PROJECT COMPLETION OR ISSUANCE OF CERTIFICATE OF OCCUPANCY. THE CONTRACTOR SHALL DEMONSTRATE START-UP, OPERATION, CONTROL, ADJUSTMENT, TROUBLE-SHOOTING, SERVICING, MAINTENANCE, AND SHUTDOWN OF EACH ITEM OF EQUIPMENT.
- 3. TESTING, ADJUSTING, AND BALANCING A. THE CONTRACTOR SHALL PROVIDE ALL TESTING, ADJUSTING, AND BALANCING OF SYSTEM.

TITLES CLEARLY PRINTED UNDER REINFORCED LAMINATED PLASTIC TABS.

- B. THE CONTRACTOR SHALL CLEAN, FLUSH, PRESSURE LEAK TEST ALL THE PIPING AND EQUIPMENT ACCORDING TO ACCEPTED
- 4. OPERATION AND MAINTENANCE DATA
- A. THE CONTRACTOR SHALL SUBMIT THREE (3) SETS PRIOR TO PROJECT COMPLETION, BOUND IN 8-1/2 X 11 INCH TEXT PAGES, THREE (3) D SIDE RING BINDERS WITH DURABLE PLASTIC COVERS.
- B. A BINDER COVER SHALL BE PROVIDED WITH PRINTED TITLE "OPERATION AND MAINTENANCE INSTRUCTIONS" AND TITLE OF C. THE BINDER CONTENTS SHALL BE INTERNALLY SUBDIVIDED WITH PERMANENT PAGE DIVIDERS, LOGICALLY ORGANIZED, WITH TAB
- D. AS A MINIMUM THE BINDER SHALL CONTAIN THE FOLLOWING: 1. PART 1: DIRECTORY, LISTING NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF ENGINEER, CONTRACTOR, SUBCONTRACTORS, AND MAJOR EQUIPMENT SUPPLIERS. 2. PART 2: COPY OF PLANS WITH ANNOTATED CHANGES IF ANY, SPECIFICATIONS AND ENGINEERING REPORT, COPY OF ALL APPROVED SHOP DRAWINGS, INSTALLATION MANUALS, OPERATION AND MAINTENANCE MANUALS, ARRANGED BY SYSTEM'S

3. PART 3: PROJECT DOCUMENTS, MANUFACTURER'S AND SUPPLIER'S WARRANTIES AND CERTIFICATES.

# **PUMP STATION WET WELL TESTING:**

- 1. PUMP STATION WET WELL SHALL BE TESTED FOR LEAKAGE AND ALL LEAKS SHALL BE REPAIRED IN A MANNER SUBJECT TO THE ENGINEER'S APPROVAL. A HYDROSTATIC SHALL BE PERFORMED IN CONFORMANCE WITH THE FOLLOWING REQUIREMENTS.
- 2. HYDROSTATIC TESTING

LEAK TESTING OF THE WET WELL.

- UNLESS OTHERWISE APPROVED, CONDUCT ALL TESTING IN THE PRESENCE OF THE ENGINEER. - NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF TESTING.
- THE STRUCTURE SHALL BE COMPLETELY PLUGGED AND FILLED WITH WATER AND ALLOWED TO STAND FOR TWENTY FOUR (24) HOURS PRIOR TO ANY READING IN ORDER TO PERMIT ABSORPTION BY THE WET WELL STRUCTURE.
- AFTER TWENTY FOUR (24) HOURS, A READING SHALL BE TAKEN AND THE STRUCTURE ALLOWED TO STAND FOR 24 HOURS. - THE DROP IN WATER LEVEL AFTER 24 HOURS SHALL BE NOTED. - LEAKAGE IN THE WET WELL SHALL NOT EXCEED THE ALLOWABLE LOSS OF 1 GALLON PER VERTICAL FOOT OF MANHOLE
- SECTION FOR A 24-HOUR PERIOD, PER TR-16 GUIDE FOR THE DESIGN OF WASTEWATER TREATMENT WORKS. - WET WELL FAILING THE TEST SHALL BE REPAIRED AND RETESTED TO THE SATISFACTION OF THE ENGINEER - THE CONTRACTOR SHALL COORDINATE AND BEAR ALL COSTS FOR PROVISION AND DISPOSAL OF WATER NECESSARY FOR THE

FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

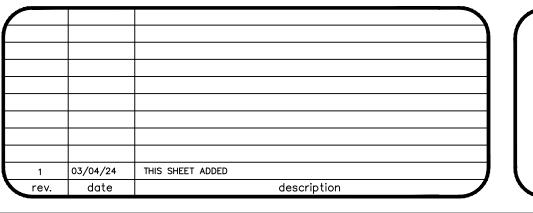
ALL RIGHTS RESERVED. COPY OR REPRODUCTION OF THIS DRAWING OR DOCUMENT, OR ANY PORTION THEREOF, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IS PROHIBITED. THIS DRAWING OR DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR ANY PURPOSE OTHER THAN THE SPECIFIC PROJECT, APPLICATION AND SITUATION FOR WHICH IT WAS INTENDED. ANY MODIFICATION OF THIS DRAWING OR DOCUMENT, OR ANY USE FOR ANY PROJECT, APPLICATION OR SITUATION OTHER THAN THAT FOR WHICH IT WAS INTENDED, WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY TO CHAZEN ENGINEERING, LAND SURVEYING, LANDSCAPE ARCHITECTURE & GEOLOGY CO., D.P.C. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DRAWING OR DOCUMENT IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED DESIGN PROFESSIONAL (PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT, LANDSCAPE ARCHITECT OR GEOLOGIST). IF THIS DRAWING OR DOCUMENT IS ALTERED, THE ALTERING DESIGN PROFESSIONAL SHALL AFFIX TO THE DRAWING OR DOCUMENT HIS OR HER SEAL, THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.





(888) 539-9073





**GAS LAND 5200 ROUTE 9W** 

**PUMP STATION DETAILS** 

TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK

designed | checked

FMK | CPL

scale 01/20/22 AS SHOWI

ORIGINAL SCALE IN INCHES