# SITE PLAN

TO BE KNOWN AS

# GAS LAND CORTLANDT - 2051 & 2053 EAST MAIN STREET

## FUELING STATION & CONVENIENCE STORE

**LOCATED AT** 

## U.S. ROUTE 6 A.K.A. EAST MAIN STREET TOWN OF CORTLANDT WESTCHESTER COUNTY, NEW YORK

**FEBRUARY 20, 2019** LAST REVISED: OCTOBER 8, 2019

## **BULK TABLE:** HIGHWAY COMMERCIAL (HC) ZONING DISTRICT

ZONING REQUIREMENTS:			
	REQUIRED (HC)	<u>EXISTING</u>	<u>PROPOSED</u>
MINIMUM LOT AREA	20,000 S.F.	42,117± S.F.	42,117± S.F.
MINIMUM LOT WIDTH	100 FT.	220 FT. ±	220 FT. ±
MINIMUM YARDS FRONT:			
U.S. ROUTE 6	30 FT.	22.0 FT. ①	53.0 FT. (CANOPY) 148.0 FT. (BLDG)
PARKWAY DRIVE	30 FT.	30.4 FT.	30.3 FT. (BLDG)
BEAR MOUNTAIN STATE PKWY I	EXT. 30 FT.	2.7 FT. ①	31.7 FT. (BLDG)
SIDE	30 FT.	N/A	N/A
REAR	30 FT.	21.07 FT. <sup>①</sup>	31.5 FT.
MAXIMUM BUILDING COVERAGE	20%	N/A	6.2%
MINIMUM LANDSCAPE COVERAGE	E 30%	50%	48.7%
LANDSCAPE BUFFER 3	50 FT.	(S) 22.8 FT. <sup>①</sup> (E) 21.1 FT. <sup>①</sup>	
MAXIMUM HEIGHT 2.5 S	STORIES OR 35 FT.	1 STORY/ < 35 FT.	1 STORY/ < 35 FT.
PARKING GAS STATION /	CONVENIENCE STORE:	N/A	

## <u>NOTES:</u>

EXISTING NON-CONFORMITY.

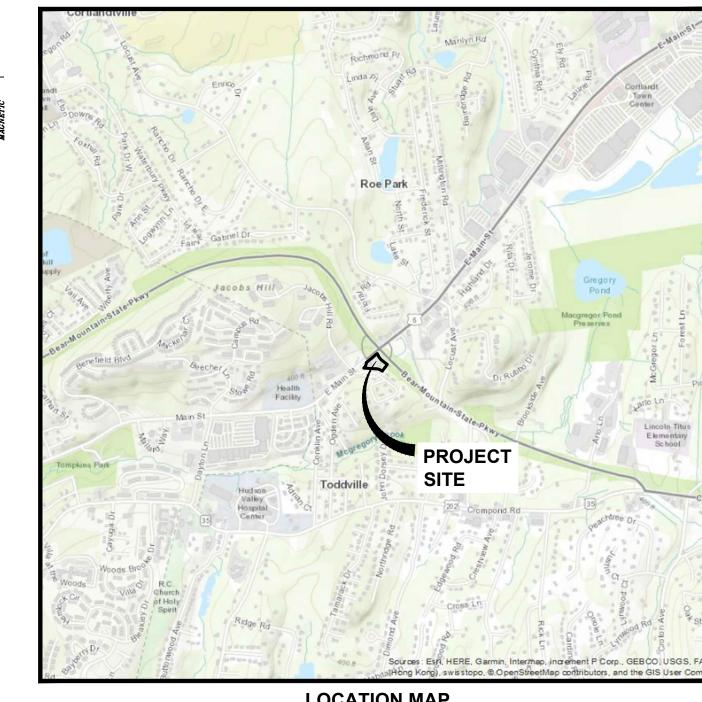
1 PER 300 SF PLUS

1 PER EMPLOYEE (4 EMPLOYEES)

2600/300 + 4 = 13 SPACES

- 2) PER SECTION 307-29: OFF-STREET PARKING, GAS STATION WITH CONVENIENCE STORE REQUIRES 1 SPACE PER EMPLOYEE; PLUS 1 SPACE PER 300 SF GFA.
- 3) THE PLANNING BOARD, AS PART OF SITE DEVELOPMENT PLAN APPROVAL, MAY MODIFY THE REQUIREMENTS OF SUBSECTION 307.23 B(2) (LANDSCAPE BUFFER) WHEN IT DETERMINES THAT THE SPECIFIC CIRCUMSTANCES OF THE PARTICULAR SITE MAKE ADHERENCE TO THE REQUIREMENTS OF SUBSECTION B(2) (LANDSCAPE BUFFER) UNWARRANTED OR IMPRACTICAL AND REQUIRE ALTERNATIVE BUFFERING MEANS WHICH ACHIEVE THE PURPOSES OF THIS SECTION. THE REASONS FOR ANY SUCH MODIFICATIONS MUST BE EXPRESSED AND PLACED INTO THE OFFICIAL RECORD OF THE PLANNING BOARD.

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7	C132	10/08/19	WB-50 TRUCK MANEUVERING			
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9	C150	10/08/19	UTILITY PLAN			
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19	C551	02/20/19	EROSION & SEDIMENT CONTROL NOTES			
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21	C570	02/20/19	SANITARY SEWER DETAILS			
20	C580	04/24/19	LANDSCAPE DETAILS AND NOTES			
21	HIPD1	02/20/19	HIGHWAY IMPROVEMENT PLAN SITE DETAILS			



LOCATION MAP SCALE: 1"=2000'

#### OWNER'S CERTIFICATION NOTE OWNER / APPLICANT SIGNATURE

THE UNDERSIGNED OWNER OR AUTHORIZED REPRESENTATIVE OF THE PROPERTY SHOWN HEREON STATES THAT HE HAS REVIEWED THIS MAP. THAT HE IS FAMILIAR WITH THIS MAP. ITS CONTENTS AND CONSENTS TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

OWNER OR AUTHORIZED REPRESENTATIVE

#### **RECORD OWNER:**

MF POINTE LLC 55 AQUEDUCT ROAD GARRISON, NY 10524

### **DEVELOPER / APPLICANT:**

c/o MITCH NESHEIWAT GAS LAND PETROLEUM, INC. 785 BROADWAY KINGSTON, NY 12401

### SITE CIVIL ENGINEER AND LANDSCAPE ARCHITECT:

CHAZEN ENGINEERING, LAND SURVEYING & LANDSCAPE ARCHITECTURE CO., D.P.C. 21 FOX STREET, POUGHKEEPSIE, NY 12601 PHONE: (845) 454-3980

The Department Head signatures indicate that this drawing or set of drawings is consistent with the Planning Board resolution of approval and with the general requirements and policies of the Town of Cortlandt for which the Department Head is responsible. The project design including all public health and safety considerations are solely the responsibility of the design professional who has signed and sealed the drawings. Reviewed by the Department of Environmental Services

Reviewed by the Department of Technical Services

Date Approved by Resolution No. \_\_\_\_ of the Planning Board of the Town of Cortlandt, New York on the\_\_\_day 20\_\_, subject to all requirements and conditions of said Resolution. Any change, erasure, modification or revision in this plat or site development plan, after the above date, shall void this approval.

Signed this\_\_\_day of\_\_\_\_\_,20\_\_\_ by

LOT 13 ACREAGE: 0.35 ACRES LOT 14 ACREAGE: 0.62 ACRES TOTAL PROJECT ACREAGE: 0.97 ACRES

## TAX MAP INFORMATION:

TOWN OF CORTLANDT SECTION 23.20, BLOCK 3, LOT 13 & SECTION 23.20, BLOCK 3, LOT 14

**ISSUED FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION** 

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PLUS 12 SPACES

AT PUMPS

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Phone: (518) 812-0513

☐ Capital District Office: 547 River Street Troy, New York 12180 Phone: (518) 273-0055 ☐ Westchester NY Office: 20 Elm Street (Suite 110) Glens Falls, New York 12801 1 North Broadway, Suite 803 White Plains, New York 10601

Phone: (914) 997-8510

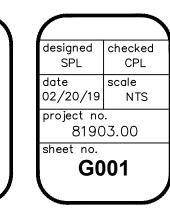
☐ Nashville Tennessee Office: 1705 Division Street Nashville, Tennessee 37203 Phone: (615) 953-4909 ☐ Chattanooga Tennessee Office: 427 E. 5TH ST. (Suite 201) Chattanooga, Tennessee 37403

10/08/19 REVISED PER NYSDOT COMMENTS 07/09/19 REVISED PER TOWN COMMENTS 05/22/19 REVISED PER TOWN COMMENTS 1 04/24/19 REVISED PER TOWN COMMENTS 0 02/20/19 INITIAL SUBMISSION TO PLANNING BOARD

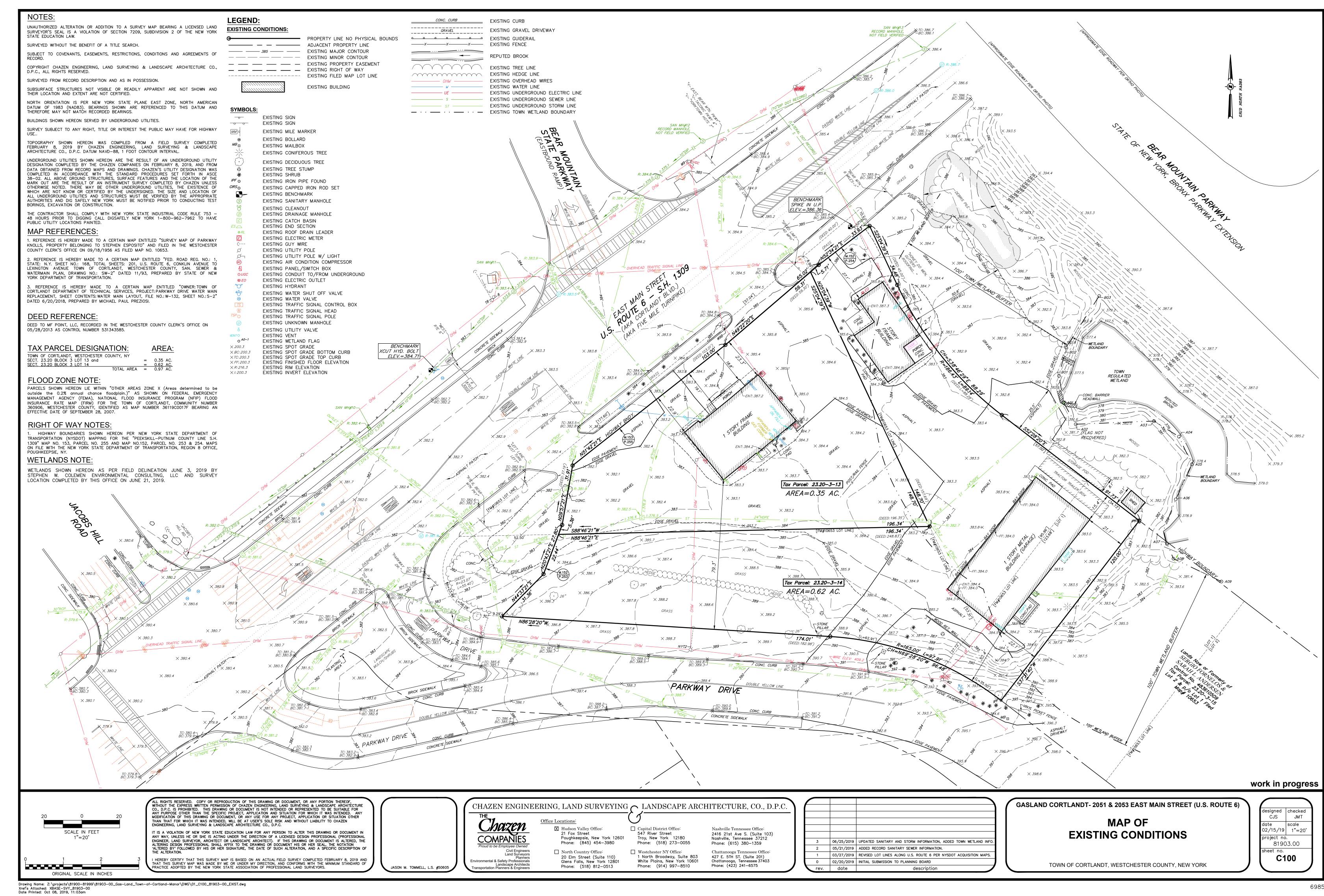
GAS LAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

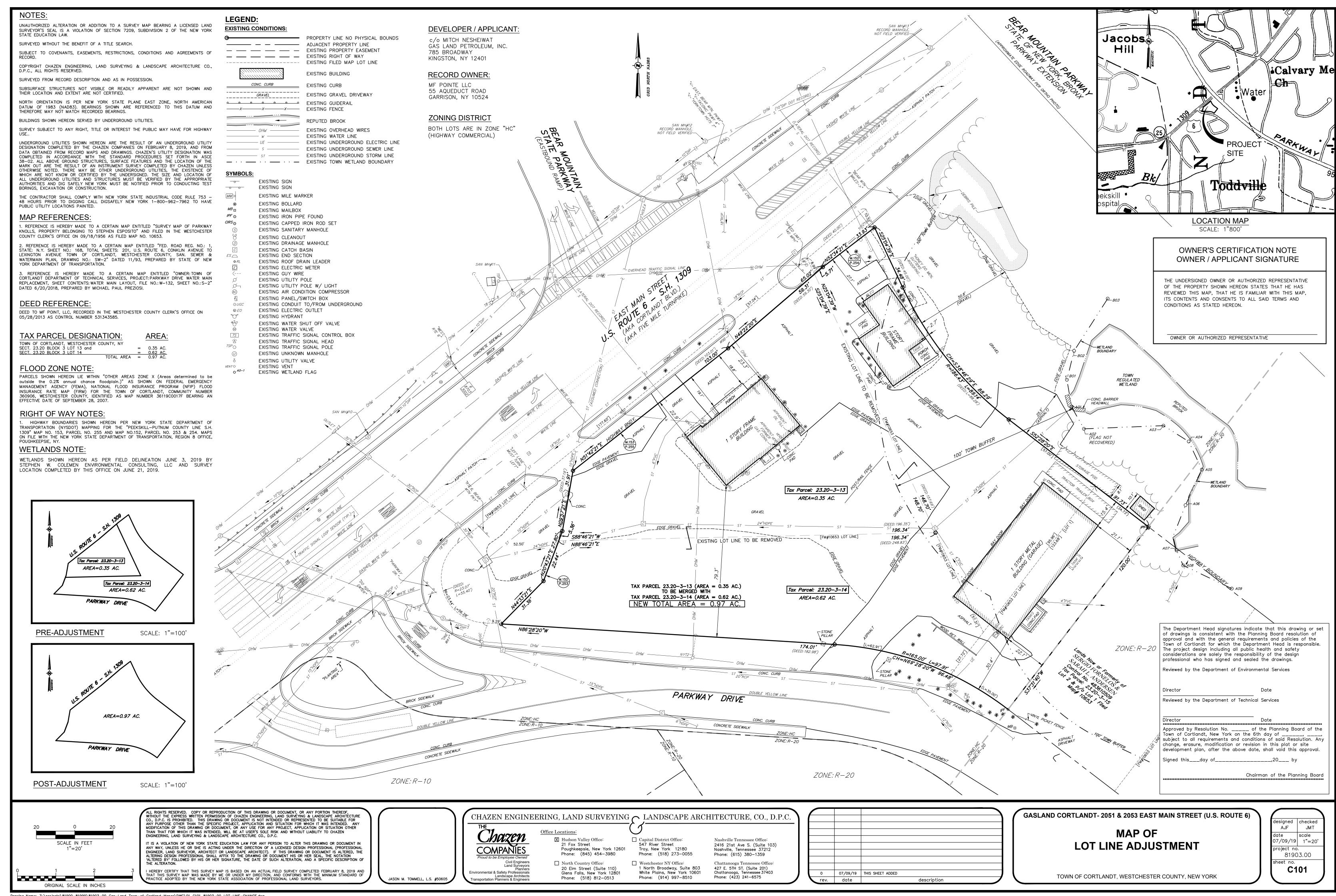
TITLE SHEET

TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK



Chairman of the Planning Board





#### ROCK BLASTING NOTES:

BLASTING OF BEDROCK IS NOT ANTICIPATED 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. BLASTING OF ROCK SHALL BE CONSIDERED ONLY AS A

- 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.
- 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, GAS AND ELECTRIC SERVICE COMPANIES, TELEPHONE AND CABLE OPERATING COMPANIES, TOWN WATER AND SEWER DEPARTMENTS, NYSDOT, AND LOCAL FIRE, RESCUE, AND AMBULANCE SERVICES.
- NO PERSON SHALL BLAST OR CAUSE TO BE BLASTED ANY ROCK OR OTHER SUBSTANCE WITH ANY EXPLOSIVE OR STORE EXPLOSIVES IN THE TOWN OF CORTLANDT WITHOUT HAVING FIRST OBTAINED A PERMIT THEREFOR FROM THE DIRECTOR OF CODE ENFORCEMENT UPON WRITTEN APPLICATION ON AN APPROVED FORM. BEFORE SUCH PERMIT IS ISSUED, THE PERSONS SHALL SUBMIT EVIDENCE IN THE FORM OF A CERTIFICATE OF INSURANCE ISSUED BY AN INSURANCE COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF NEW YORK AND IN A FORM ACCEPTABLE TO THE TOWN ATTORNEY, GUARANTEEING THAT THE APPLICANT HAS IN FULL FORCE AND EFFECT A POLICY OF PUBLIC LIABILITY INSURANCE, INCLUDING A SPECIFIC ENDORSEMENT COVERING THE LIABILITIES ARISING FROM BLASTING AND STORAGE OF EXPLOSIVES, AND PROVIDING BODILY INJURY AND PROPERTY DAMAGE COVERAGE IN AN AMOUNT AS SET BY RESOLUTION OF THE TOWN BOARD FROM TIME TO TIME. SUCH POLICY SHALL ALSO PROVIDE TO SAVE HE TOWN HARMLESS FROM ALL CLAIMS, ACTIONS AND PROCEEDINGS BROUGHT BY ANY PERSON, FIRM OR CORPORATION FOR INJURY TO PERSONS OR PROPERTY RESULTING FROM OR OCCASIONED BY SUCH BLASTING OPERATIONS OR STORAGE OF EXPLOSIVES. SUCH POLICY SHALL NAME THE TOWN AS AN ADDITIONAL INSURED AND SHALL ALSO CONTAIN THE PROVISION THAT THE POLICY SHALL NOT BE CANCELED, TERMINATED, MODIFIED OR CHANGED BY THE COMPANY UNLESS TEN (10) DAYS' PRIOR WRITTEN NOTICE IS SENT TO THE TOWN CLERK BY REGISTERED MAIL. SUCH POLICY SHALL ALSO PROVIDE THAT THE PRESENCE OF AN INSPECTOR FROM THE DEPARTMENT OF CODE ENFORCEMENT ON THE SITE OF THE OPERATIONS SHALL NOT AFFECT THE OBLIGATION OF THE INSURER UNDER ITS POLICY. NO PERMIT SHALL BE VALID UNLESS SUCH INSURANCE IS IN FULL FORCE
- SUCH PERMIT, WHEN APPROVED AND SIGNED BY THE DIRECTOR OF CODE ENFORCEMENT AND UPON PAYMENT OF A FEE AS MAY BE FIXED FROM TIME TO TIME BY RESOLUTION OF THE TOWN BOARD, SHALL BE ISSUED AND SIGNED BY THE DIRECTOR OF CODE ENFORCEMENT, WHO SHALL KEEP A RECORD THEREOF. EACH PERMIT SHALL SPECIFY THE NAME OF THE PERMITTEE, THE DATE OF EXPIRATION WHICH SHALL NOT BE LATER THAN THREE (3) MONTHS FROM THEDATE OF ISSUE] AND THE PARTICULAR PLACE WHERE THE BLASTING IS TO BE DONE OR EXPLOSIVES ARE TO BE STORED. THE TOWN BOARD MAY REVOKE ANY SUCH PERMIT AT ANY TIME.
- 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
- THE CONTRACTOR SHALL NOTIFY EACH PROPERTY AND UTILITY OWNER HAVING A BUILDING, STRUCTURE, OR OTHER INSTALLATION ABOVE OR BELOW GROUND IN PROXIMITY TO THE SITE OF THE WORK OF HIS 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.
- THE CONTRACTOR SHALL SCHEDULE AND CONDUCT PRE-BLAST SURVEYS WITH PROPERTY OWNERS LOCATED IN THE AREA POTENTIALLY AFFECTED BY AIRBLAST OVERPRESSURE AND GROUND VIBRATION OR AS REQUIRED.
- THE CONTRACTOR SHALL NOT USE OR STORE A QUANTITY OF EXPLOSIVES GREATER THAN THAT AMOUNT WHICH IS GENERALLY ACCEPTED TO BE REASONABLE FOR THE USE INTENDED NOR USE OR STORE SUCH AN AMOUNT AS WILL ENDANGER PERSONS OR PROPERTY. THE DIRECTOR OF CODE ENFORCEMENT MAY LIMIT THE MAXIMUM QUANTITY OF EXPLOSIVES TO BE USED OR STORED, BUT NO ACTION BY THE DIRECTOR OF CODE ENFORCEMENT SHALL RELIEVE OR EXEMPT ANY PERSON OR INSURANCE COMPANY FROM LIABILITY FOR DAMAGE CAUSED BY THE USE OR STORAGE OF EXPLOSIVES.
- 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 SPECIFIED LEVELS.
- 10. ALL BLASTS, BEFORE FIRING, SHALL BE COVERED WITH ROPE OR METAL MATTING, HEAVY TIMBERS CHAINED TOGETHER OR OTHER SUITABLE SCREENS OF SUFFICIENT SIZE, WEIGHT AND STRENGTH TO PREVENT THE ESCAPE OF BROKEN ROCK OR OTHER MATERIAL IN A MANNER LIABLE TO CAUSE INJURY OR DAMAGE TO PERSONS OR PROPERTY.
- . NO PERSON SHALL FIRE OR EXPLODE OR DIRECT OR CAUSE TO BE FIRED OR EXPLODED ANY BLAST IN OR NEAR ANY HIGHWAY OR PUBLIC PLACE IN THE TOWN OF CORTLANDT UNLESS COMPETENT MEN. CARRYING A RED FLAG. SHALL HAVE BEEN PLACED AT A REASONABLE DISTANCE ON ALL SIDES OF THE BLAST TO GIVE PROPER WARNING THEREOF AT LEAST THREE (3) MINUTES IN ADVANCE OF FIRING.
- 2. NO PERSON SHALL CONDUCT BLASTING OPERATIONS WITHIN THE TOWN OF CORTLANDT AFTER THE HOUR OF 5:00 P.M. AND BEFORE 8:00 A.M., OR AT ANY TIME ON SUNDAY, EXCEPT UNDER AUTHORITY OF A SPECIAL PERMIT ISSUED BY THE TOWN BOARD.
- 3. AN 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.
- 4. PROTECTIVE MEASURES INCLUDING INSTALLATION OF SIGNAGE, NOTIFICATION OF NEARBY RESIDENTS, TRAFFIC CONTROL AS NECESSARY ALONG NEARBY ROADS, AUDIBLE PRE-BLAST WARNINGS, AND USE OF BLAST MATS SHALL BE IMPLEMENTED
- 5. 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
- 16. MONITORING OF PEAK PARTICLE VELOCITY (INCHES/SECOND) AND PEAK AIRBLAST OVERPRESSURE (PSI) SHALL BE PERFORMED DURING ALL BLASTS.
- 7. THE DIRECTOR OF CODE ENFORCEMENT IS HEREBY AUTHORIZED AND EMPOWERED TO ESTABLISH AND PROMULGATE RULES AND REGULATIONS CONCERNING BLASTING OPERATIONS IN SAID TOWN, STORAGE OF EXPLOSIVES AND OTHER MATTERS CONTAINED IN THIS CHAPTER NOT INCONSISTENT WITH THE OTHER PROVISIONS OF THIS CHAPTER. SUCH RULES AND REGULATIONS, WHEN ESTABLISHED AND PROMULGATED, SHALL BE BINDING UPON ALL PERSONS TO WHOM A PERMIT IS ISSUED PURSUANT TO THIS CHAPTER.

#### **DEMOLITION NOTES:**

- 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 AND STORAGE OF DEBRIS.
- 4. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
- 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 NOISE, UTILITY OUTAGE, OR DISRUPTION. COORDINATE WITH
- PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE
- 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 DISCONNECTED AND CAPPED.
- 9. DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL
- 10. PROTECT EXISTING FEATURES THAT ARE NOT TO BE DEMOLISHED.

AUTHORITY HAVING JURISDICTION.

12. MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS, OR SIDEWALKS WITHOUT PERMITS. COORDINATE W/

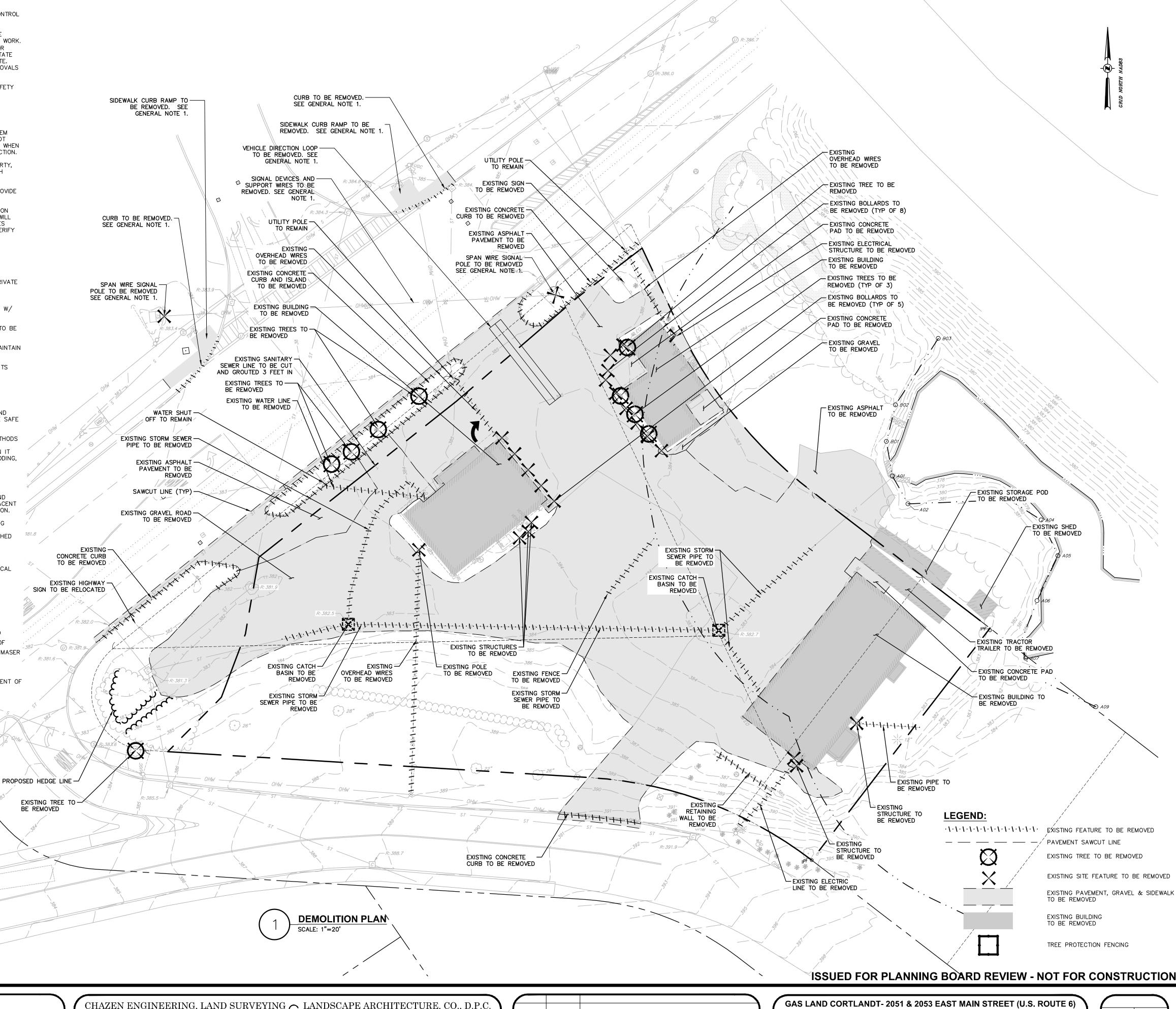
11. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE

- 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 GRADES AND CONTOURS.
- 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 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. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
- 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 TO RECEIVE THE DEBRIS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. DO NOT BURN DEMOLISHED
- 22. REMOVAL OF ALL ELECTRICAL SERVICE SHALL NE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. COORDINATE WITH LOCAL UTILITY HAVING JURISDICTION.

## **GENERAL NOTES:**

- 1. DEMOLITION WORK WITHIN THE U.S. ROUTE 6, WHICH INCLUDES THE RELOCATION AND INSTALLATION OF THE TRAFFIC CONTROL POLES AND DEVICES, CROSSWALK AND STOP BAR STRIPING, AND CONSTRUCTION OF WALKWAYS WITH ADJACENT CONCRETE CURBS, TO BE COMPLETED BY MASER CONSULTING P.A.
- 2. A HIGHWAY WORK PERMIT SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF

ANY WORK IN THE STATE R.O.W. AND THE TOWN R.O.W.



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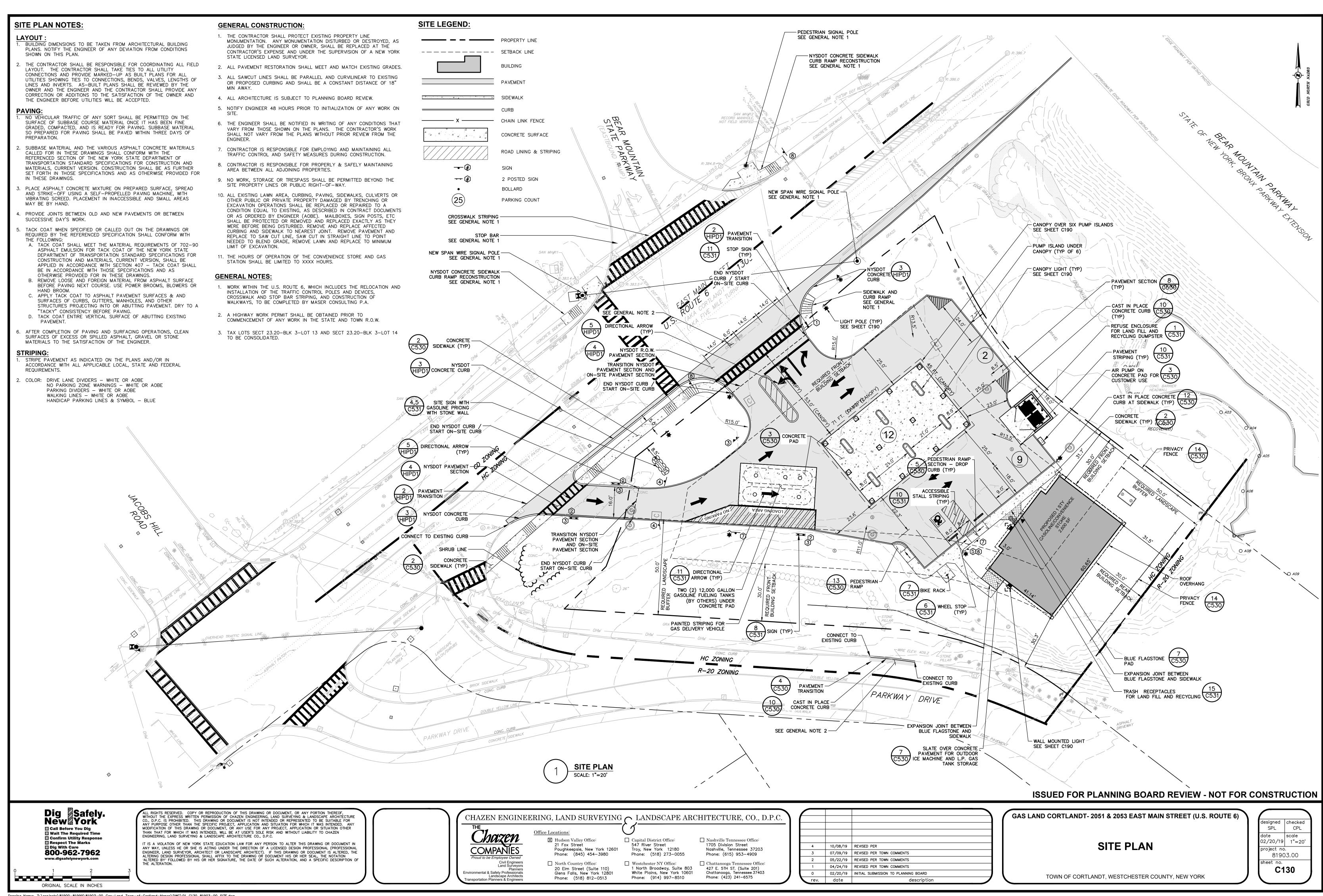
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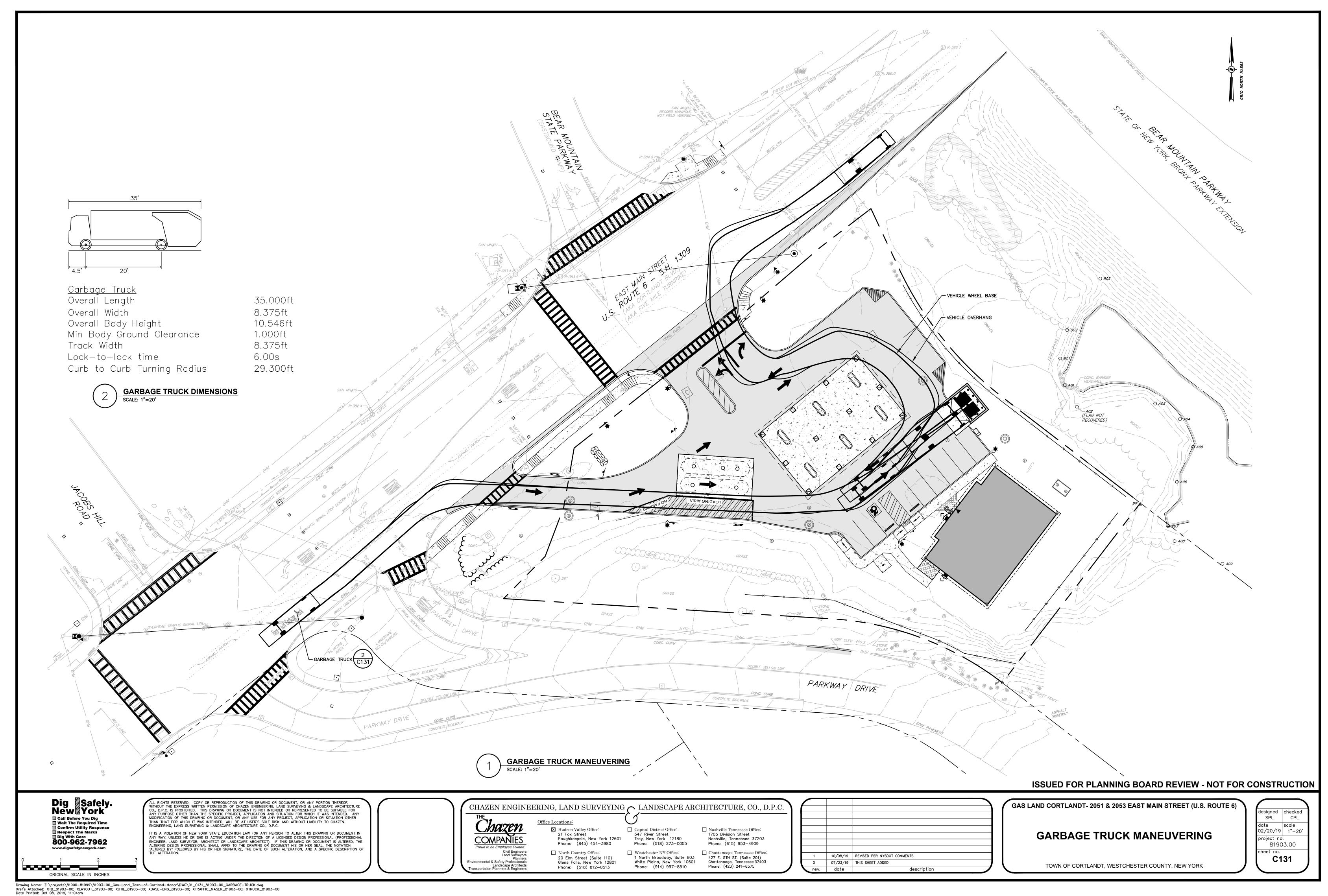
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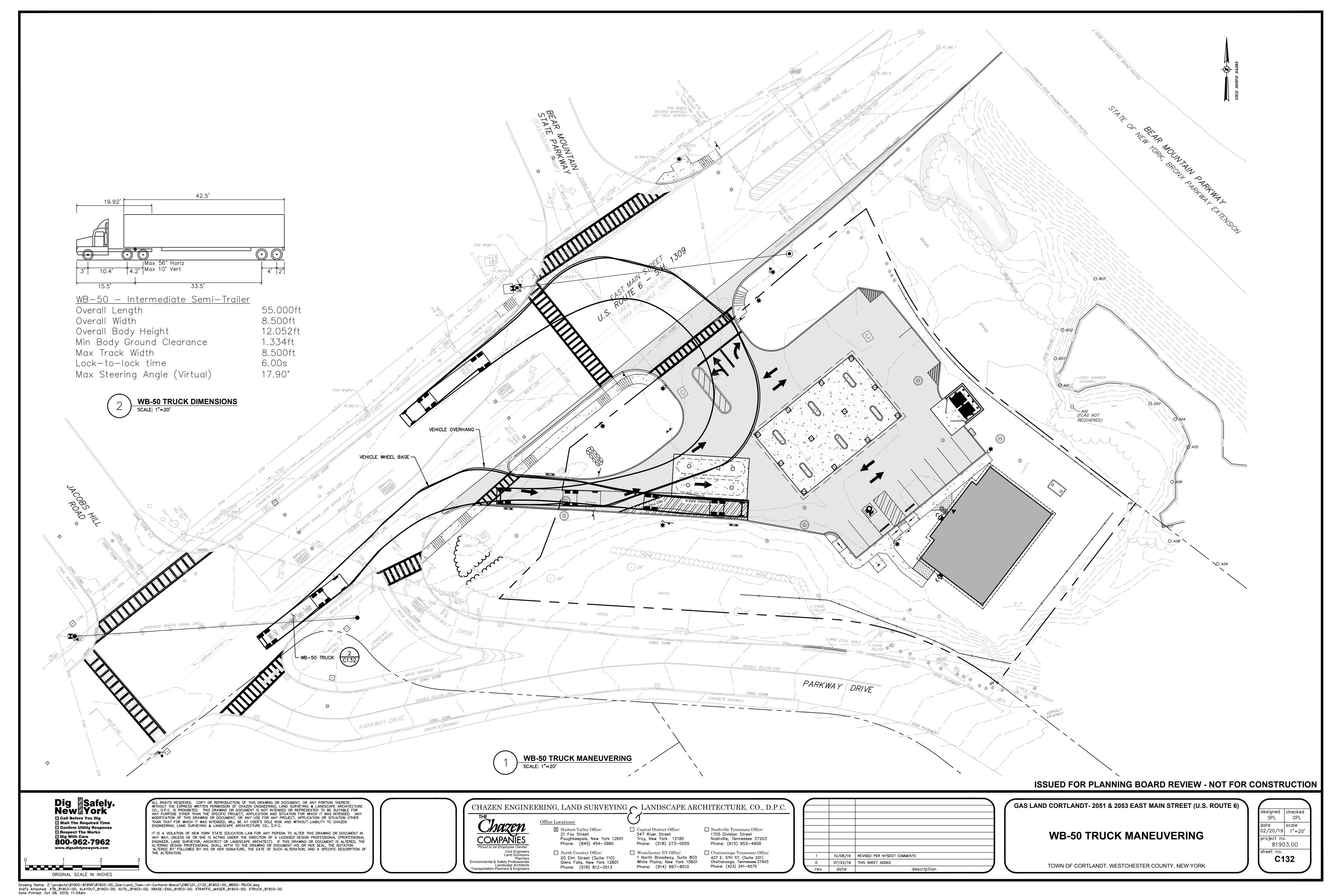
**DEMOLITION PLAN** 

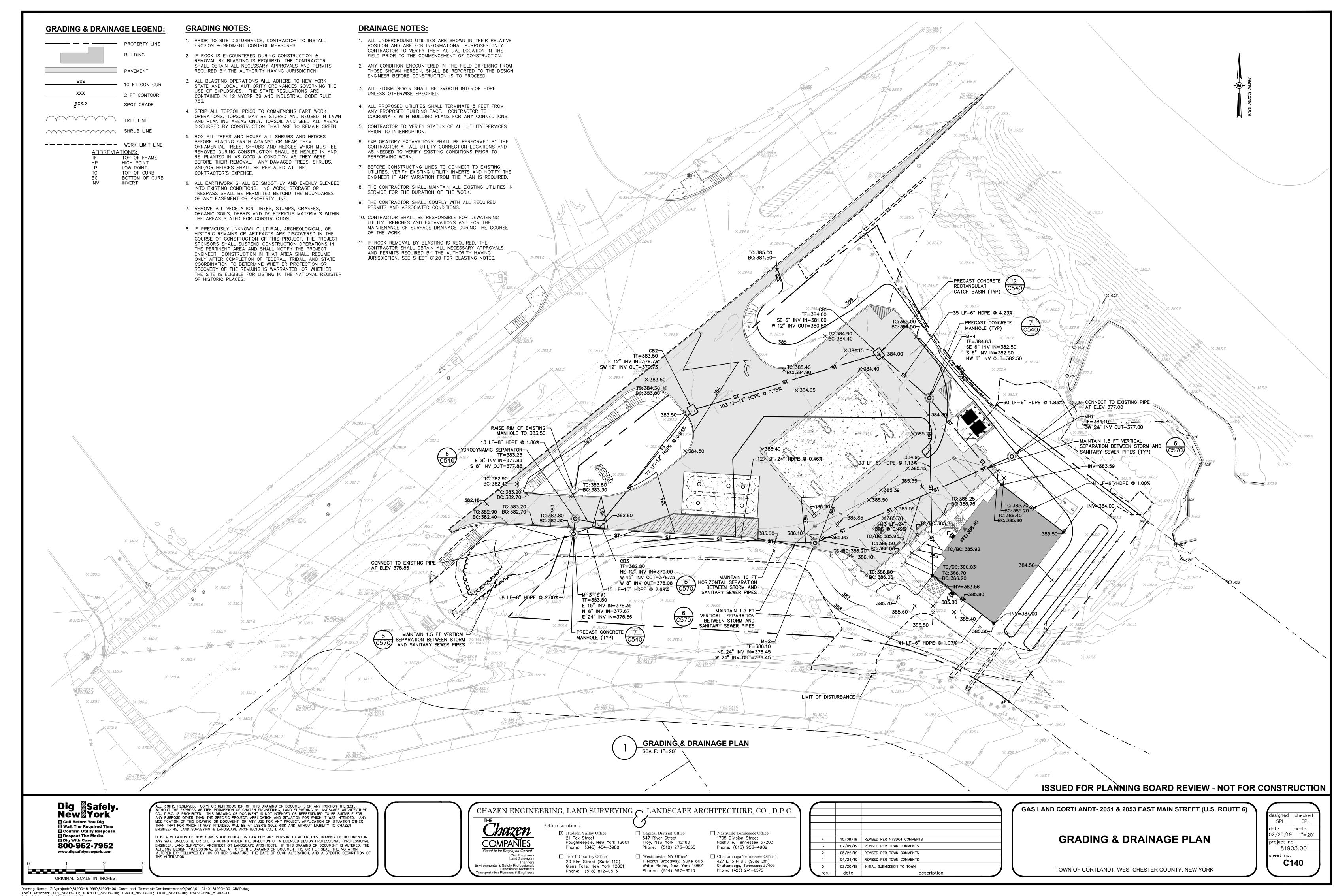
TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK

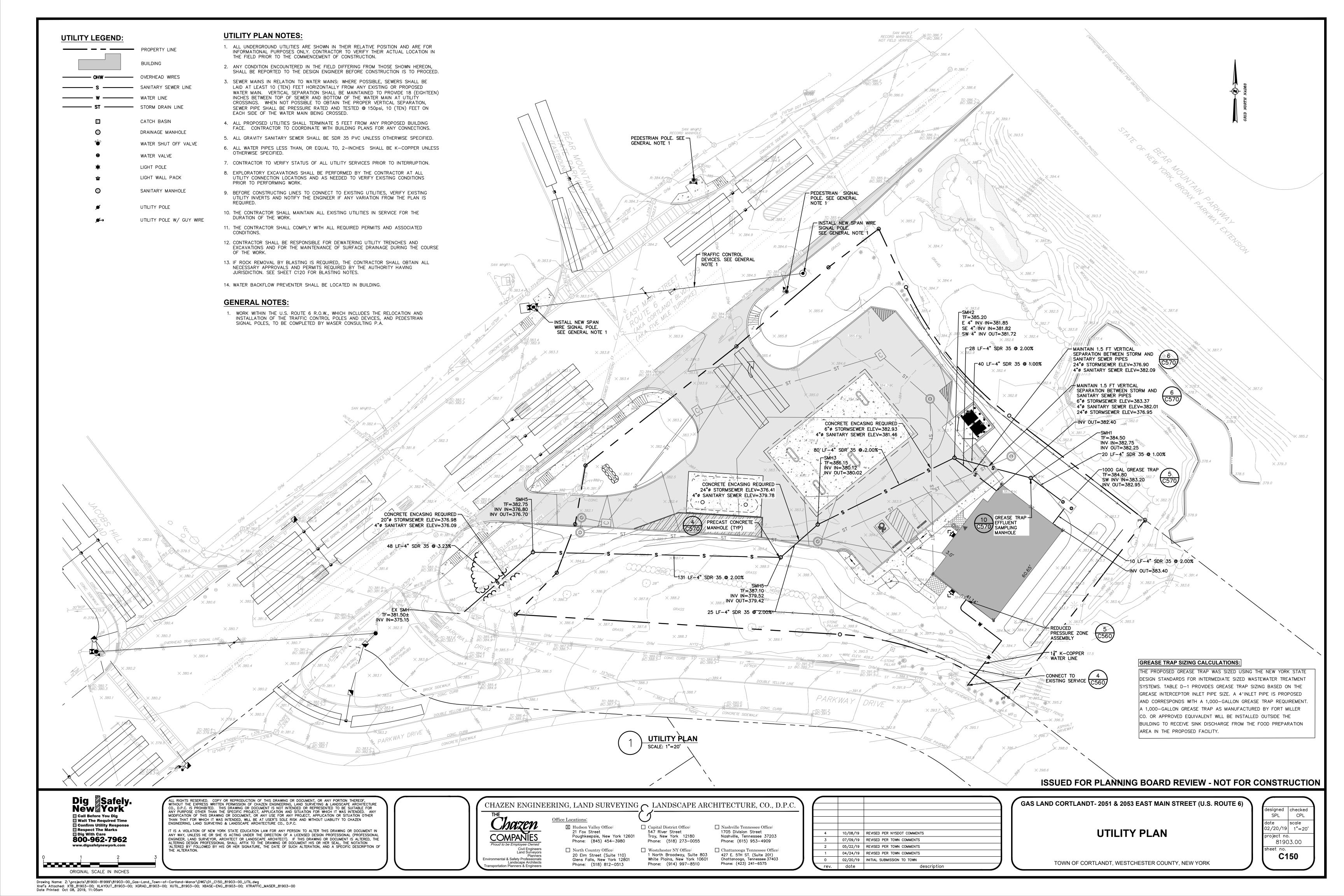
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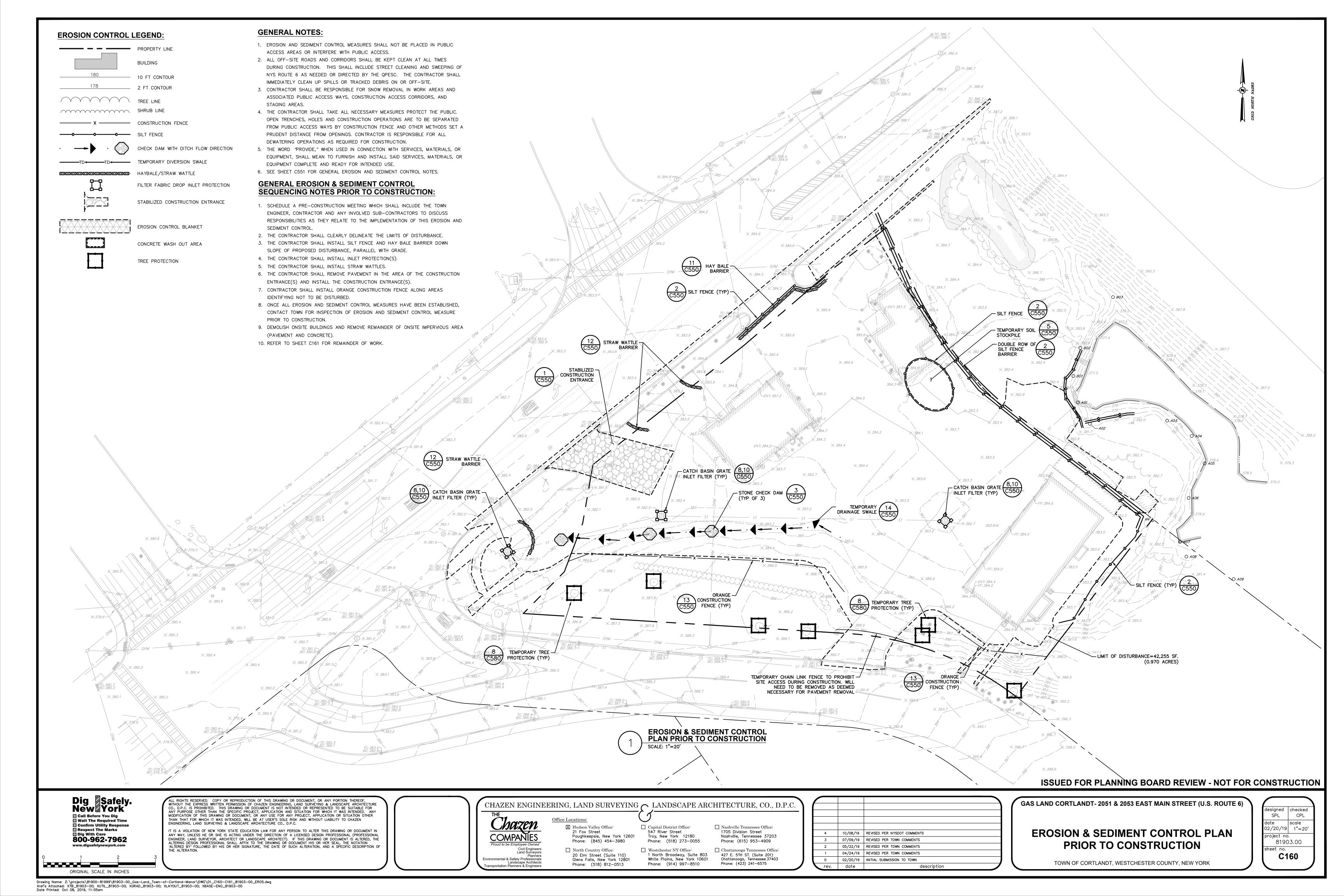


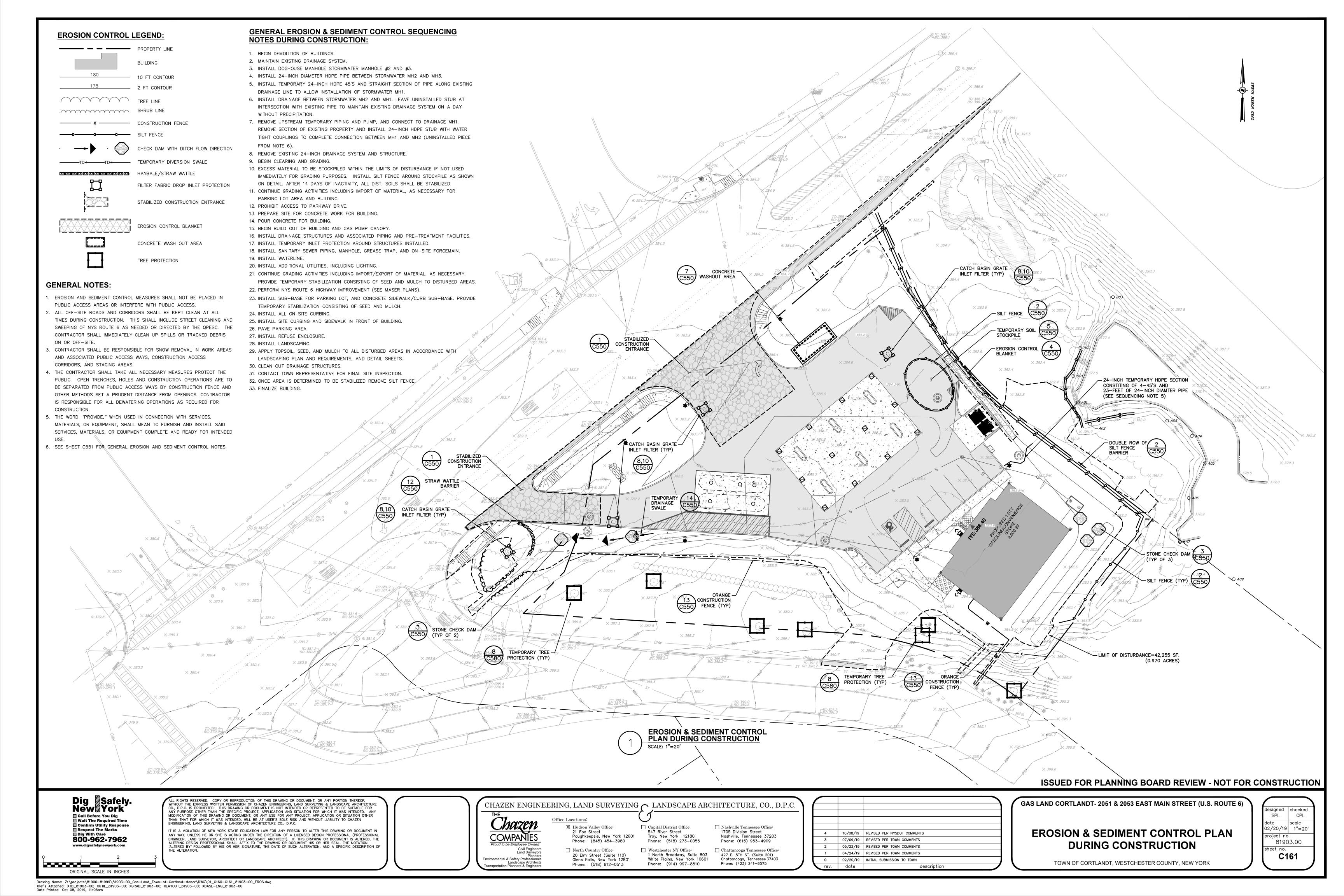


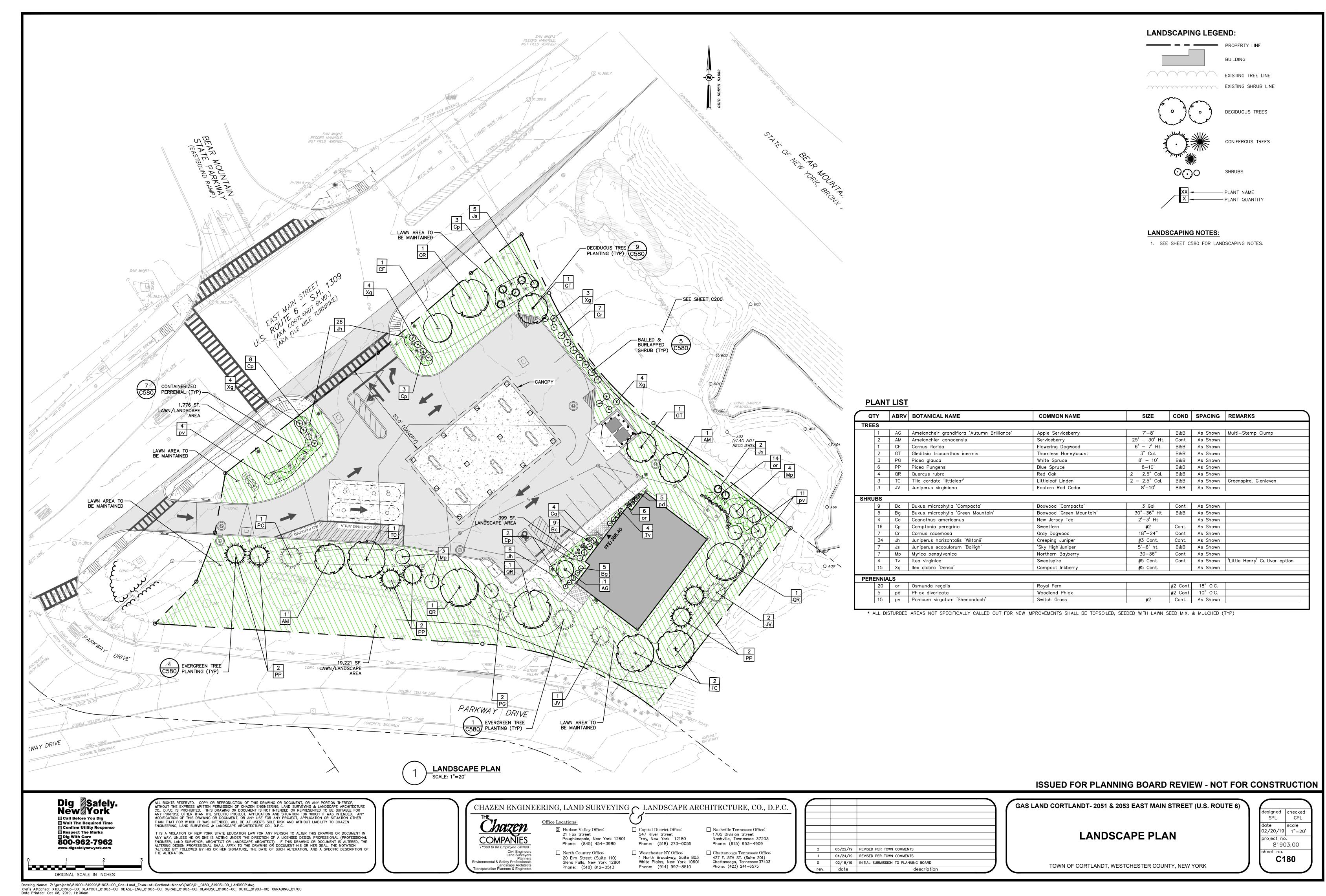


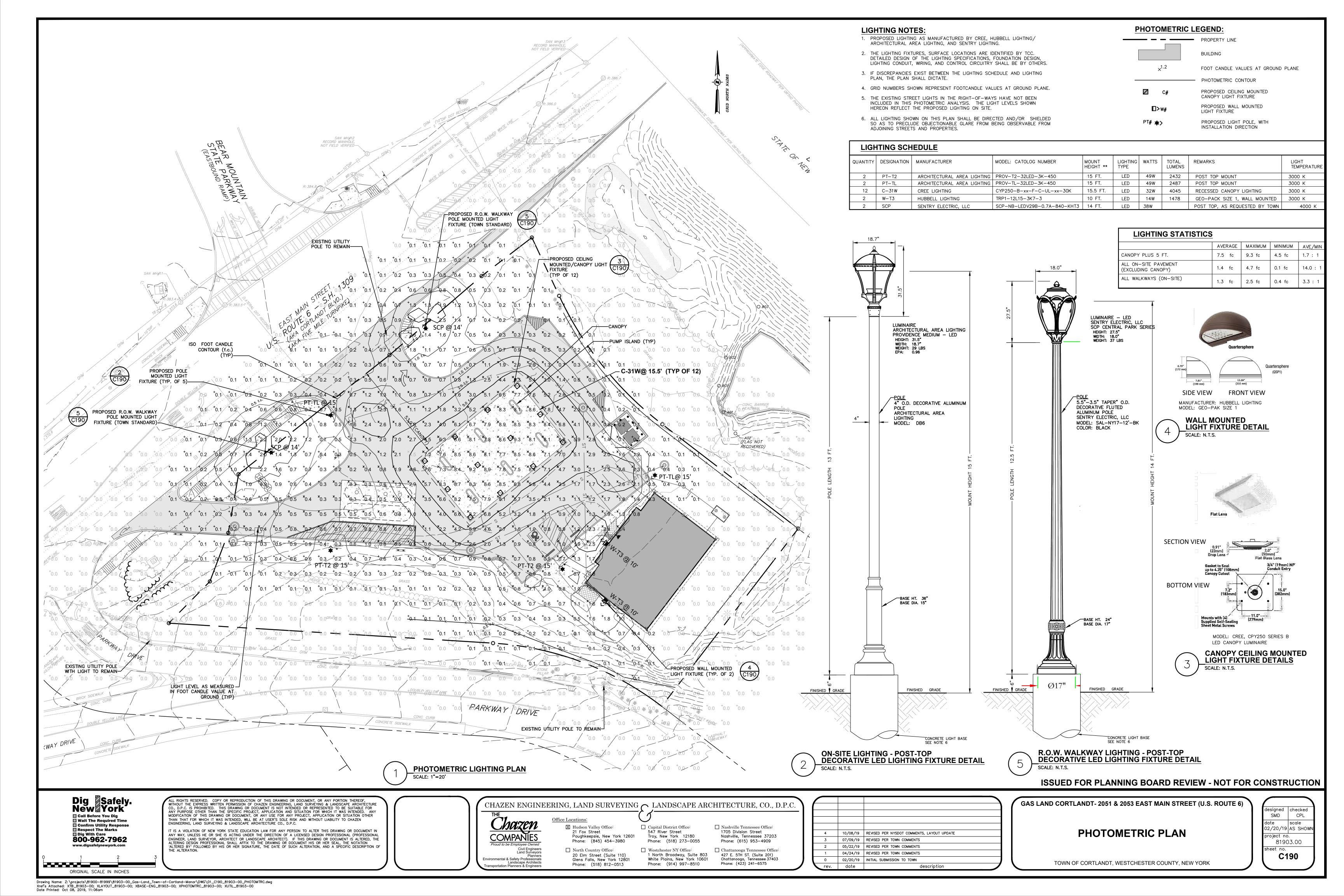












#### **PLANT SCHEDULE**

	SYMBOL		BOTANICAL NAME	COMMON NAME	QTY	SIZE	COND	SPACING
	*	wb	llex verticillata	Winterberry (at least 1 male species)		15"–18"	BARE ROOT	5' O.C
SHRUBS		sb	Lindera benzoin	Spice Bush	12	2-3'	BARE ROOT	10' O.C
SHR	(4)	be	Sambucus nigra	Black Elderberry		2-3'	BARE ROOT	10' O.C
	Q	sd	Cornus amomum	Silky Dogwood	12	2-3'	BARE ROOT	10' O.C
	0	Or Osmunda regalis		Royal Fern	129	2-3'	#2 Cont.	18' O.C
	$\overline{}$	pv	Panicum virgatum 'Shenandoah'	Switch Grass	22	2-3'	#2 Cont.	As Shown

#### LANDSCAPING NOTES:

- THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE
- THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
- THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR

THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.

- . NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
- A. NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT
- B. SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC (AAN), UNLESS OTHERWISE SPECIFIED.
- . NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, VIGOROUS PLANTS NURSERY GROWN UNDER CLIMACTIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HEELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
- D. SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
- SEEDING & PLANTING SEASONS AND TIMING CONDITIONS: A. UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
- B. UNLESS OTHERWISE DIRECTED IN WRITING PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
- . AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE LAWNS OR PLANTINGS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE; WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER (TOPSOIL AND TEMPORARY COVER SEED MIX) WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.

#### 3. PRODUCTS:

- THE TOP 6" TO 12" OF ROOTSTOCK MATERIAL SHALL BE REMOVED FROM THE DISTURBED WETLAND AREAS AND PLACED AS BEDDING MATERIAL IN THE PROPOSED WETLAND MITIGATION AREAS. IF ADDITIONAL TOPSOIL IS NEEDED USE IMPORTED TOPSOIL AS NOTED BELOW.
- a. 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.
- ii. 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.
- iii. 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.
- iv. CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION 97-100 NO 200 20-60

SUPPLEMENTAL WETLAND SEED MIX IS TO BE APPLIED TO ALL MITIGATION AREA AT 4 POUNDS OF SEED PER ACRE AND CONSIST OF THE FOLLOWING, OR APPROVED EQUAL:

WETLAND SEED MIX AMOUNT BY:

EUPATORIUM PERFOLIATUM 26.66% BLUE VERVAIN 20.80% VERBENA HASTATA PANICUM DICHOTOMIFLORUM SMOOTH PANIC-GRASS 8.89% SOLIDAGO RUGOSA WRINKLED GOLDENROD 8.74% EUPATORIUM MACULATUM JOE-PYE WEED GRASS LEAF GOLDENROD 6.65% FUTHAMIA GRAMINIFOLIA POLYGONUM PENSYLVANICUM 4.59% PENNSYLVANIA SMARTWEED ASTER NOVAE-ANGLIAE NEW ENGLAND ASTER NODDING BEGGARS TICK BIDEN CERNUA 0.21% ASCLEPIAS INCARNATA SWAMP MILKWEED IRIS VERISCOLOR BLUE FLAG IRIS

- C. LIME: NATURAL LIMESTONE CONTAINING AT LEAST 85% OF TOTAL CARBONATES, GROUND TO SUCH FINENESS THAT AT LEAST 90% PASSES A 10-MESH SIEVE AND AT LEAST 50% PASSES A 100-MESH SIEVE.
- i. FOR STARTER FERTILIZING: COMMERCIAL STARTER FERTILIZER, GRANULAR, NONBURNING PRODUCT CONTAINING 5% NITROGEN, 10% AVAILABLE
- PHOSPHOROUS, AND 5% WATER SOLUABLE POTASH (5-10-5).
- ii. FOR FINAL FERTILIZING: IF APPLIED IN SPRING SEASON, SHALL BE A SLOW RELEASE COMMERCIAL FERTILIZER, GRANULAR, WITH 3-1-2 NPK. IF APPLIED IN FALL SEASON, SHALL BE AS SPECIFIED IN (8.D.i) ABOVE.
- E. TREES, SHRUBS, GROUND COVERS, PERENNIALS, ANNUALS: PLANTING SOIL MIXTURE: SHALL BE PREMIXED IN BULK, AND CONTAIN THE FOLLOWING BY VOLUME: 30 PARTS TOPSOIL
  - 10 PARTS PEAT 1 PART BONE MEAL

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- ii. PEAT: BROWN TO BLACK IN COLOR, WEED AND SEED FREE. DRIED SPHAGNUM PEAT, CONTAINING NOT MORE THAN 9% MINERAL ON A DRY BASIS AND CONFORMING TO NYSDOT 713-15.
- iii. BONE MEAL: FINELY GROUND, RAW, MINIMUM 4% NITROGEN AND 20% PHOSPHORIC ACID. IT SHALL BE DELIVERED IN SEALED BAGS SHOWING THE MANUFACTURER'S GUARANTEED ANALYSIS.
- F. STAKES: 8 FEET LONG, 3 INCH DIA. CEDAR OR P.T. WOOD STAKES.
- G. HOSE: NEW, 2-PLY GARDEN HOSE NOT LESS THAN 1/2 INCH IN DIAMETER.
- H. WEED CONTROL FABRIC: SOIL CHECK AS MANUFACTURED BY BRIGHTON BYPRODUCTS CO. INC, NEW BRIGHTON, PA; MIRASCAPE OR MIRAFI GEOSYNTHETIC PRODUCTS, NORCROSS, PA, OR APPROVED EQUIVALENT.

- LAWN AREAS
  OAT OR WHEAT STRAW, FREE OF WEEDS. AN ALTERNATIVE IS WOOD FIBER CELLULOSE IF HYDROSEEDING IS USED.
- PLANT BED AREAS
  GROUND OR SHREDDED HARDWOOD BARK, UNCOLORED. NO PIECES OVER 2 INCHES GREATEST DIMENSION. FREE FROM SAWDUST.

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## **WETLAND MITIGATION LEGEND:**

AQUATIC WETLAND BUFFER DISTURBANCE PROPOSED WETLAND DISTURBANCE

----- ORANGE CONSTRUCTION FENCE PROPOSED 1 FT CONTOUR PROPOSED SILT FENCE

PROPOSED BOULDER

1. SEE SHEET C180 FOR LANDSCAPING PLAN AND SHEET C580 FOR LANDSCAPING NOTES.

<u>SOIL PREPARATIONS AND VEGETATIVE ESTABLISHMENT</u> ADDITIONAL SOIL AMENDMENTS ARE NOT EXPECTED TO BE REQUIRED, SINCE THE PROPOSED VEGETATATIVE COVER TYPES WILL THRIVE IN A WIDE RANGE OF SOIL CONDITIONS, WITH THE pH VALUES FROM SLIGHTLY ACIDIC TO NEUTRAL. BASELINE SOIL ANALYSIS FOR THE MITIGATION AREA AND ADJACENT WETLAND, HOWEVER, WILL BE INDISPENSABLE IN THE MONITORING AND ASSESSMENT PHASE OF THE RELATIVE SUCCESS OR FAILURE THE MITIGATION EFFORT.

2. THE COMBINATION OF FORESTED WETLAND WITH SCRUB/SHRUB WETLAND MITIGATION AREA IS EXPECTED TO ENSURE VEGETATIVE ESTABLISHMENT AND LONG-TERM SURVIVAL, EVEN UNDER SUMMER CONDITIONS. THE DESIGN OF THIS SYSTEM WILL MAXIMIZE SURFACE WATER AVAILABILITY TO BOTH WETLAND PLANTINGS, AND AREA TO BE SEEDED WITH HERBACEOUS WETLAND SPECIES.

3. THE FINISHED GRADES OF THE MITIGATION AREA WILL CREATE AN INCREASING MOISTURE GRADIENT FROM THE EXISTING UPLANDS THROUGH THE MITIGATION AREA THAT WILL IMPROVE CHANCES FOR ESTABLISHMENT OF A DIVERSE WETLAND COMMUNITY. THESE FINISHED GRADES ALSO WILL MAKE USE OF SEASONAL FLUCTUATIONS IN SURFACE WATER ELEVATIONS, WHICH ARE WIDELY RECOGNIZED AS

4. THE REMAINED OF THE TERRAIN WILL BE SEEDED WITH A MIXTURE OF HERBACEOUS, WET MEADOW SPECIES IN ORDER TO STABILIZE SOILS AND ESTABLISH A PERENNIAL WETLAND VEGETATIVE COMMUNITY.

#### **CONSTRUCTION NOTES:**

1. ALL DISTURBED AREAS ARE TO BE REPAIRED INCLUDING BRINGING GRADES BACK TO ORIGINAL CONDITION OR PROPOSED IF INDICATED BY IMPORTING TOPSOIL AND SUPPLYING NECESSARY SOIL AMENDMENTS PRIOR TO SEEDING AND WATERING.

CRUCIAL TO SEED GERMINATION WETLAND PLANT SPECIES.

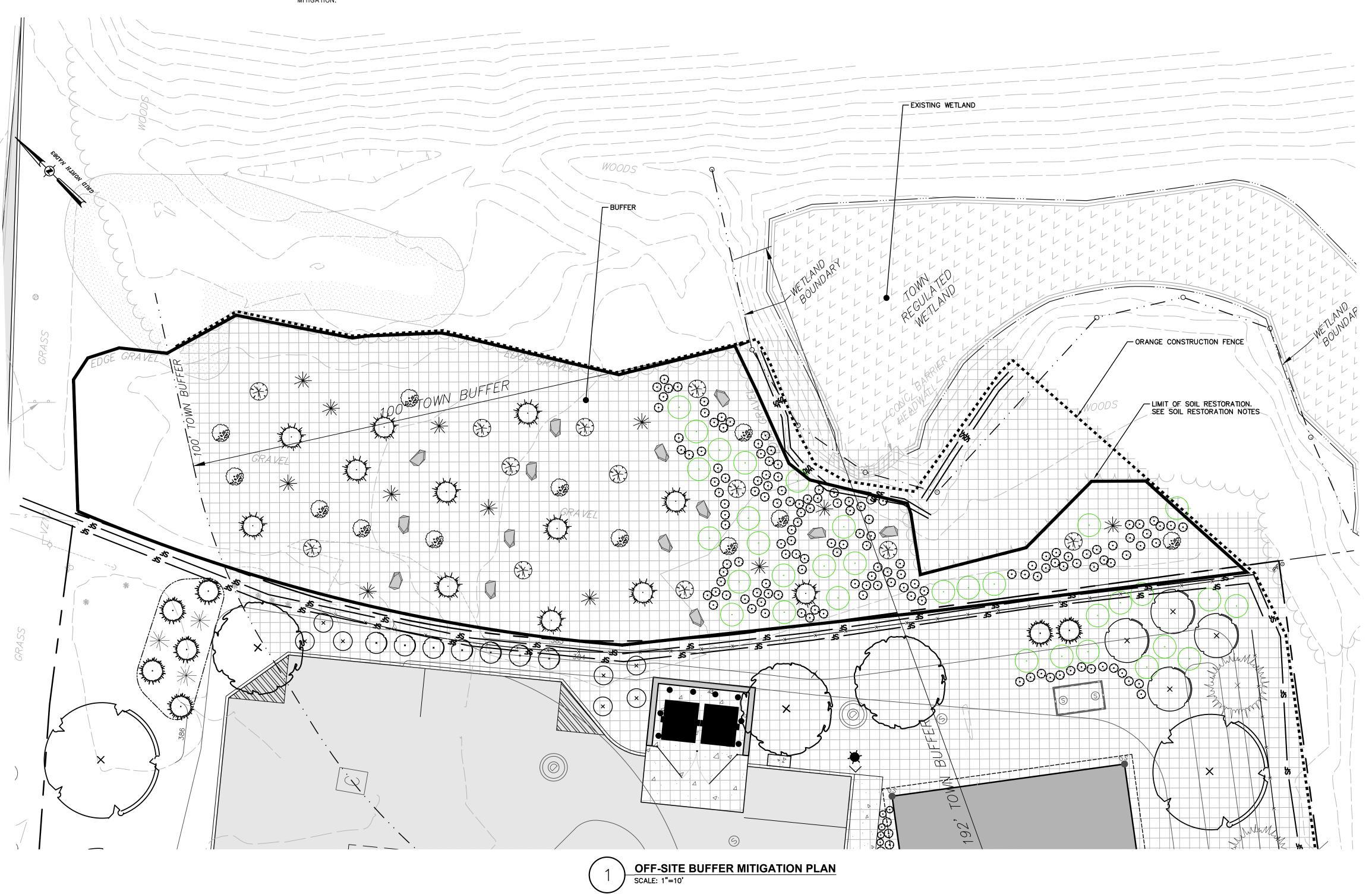
2. THE TEMPORARY CONSTRUCTION ACCESS FOR THE MITIGATION AREA WILL BE RESTORED TO ORIGINAL CONDITIONS UPON COMPLETION OF THE WETLAND

#### **SOIL RESTORATION NOTES:**

- 1. REMOVE GRAVEL AND/OR DEBRIS FROM SURFACE.
- 2. APPLY 2-INCHES OF COMPOST OVER SOIL. COMPOST SHALL BE AGES, FROM PLANT DERIVED MATERIALS, FREE OF VIABLE WEED SEEDS, HAVE NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING, PASS THROUGH HALF INCH SCREEN AND HAVE A PH SUITABLE TO GROW DESIRED PLANTS.
- 3. TILL COMPOST INTO THE SUBSOIL TO A DEPTH OF AT LEAST 8-INCHES SUING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, MIXING AND CIRCULATING AIR AND COMPOST INTO
- 4. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF 4-INCHES AND LARGER ARE

CLEANED OFF THE SITE.

5. APPLY TOPSOIL TO A DEPTH OF 3-INCHES.



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0 07/09/19 THIS SHEET ADDED

GAS LAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

ISSUED FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION

**OFF-SITE BUFFER MITIGATION PLAN** 

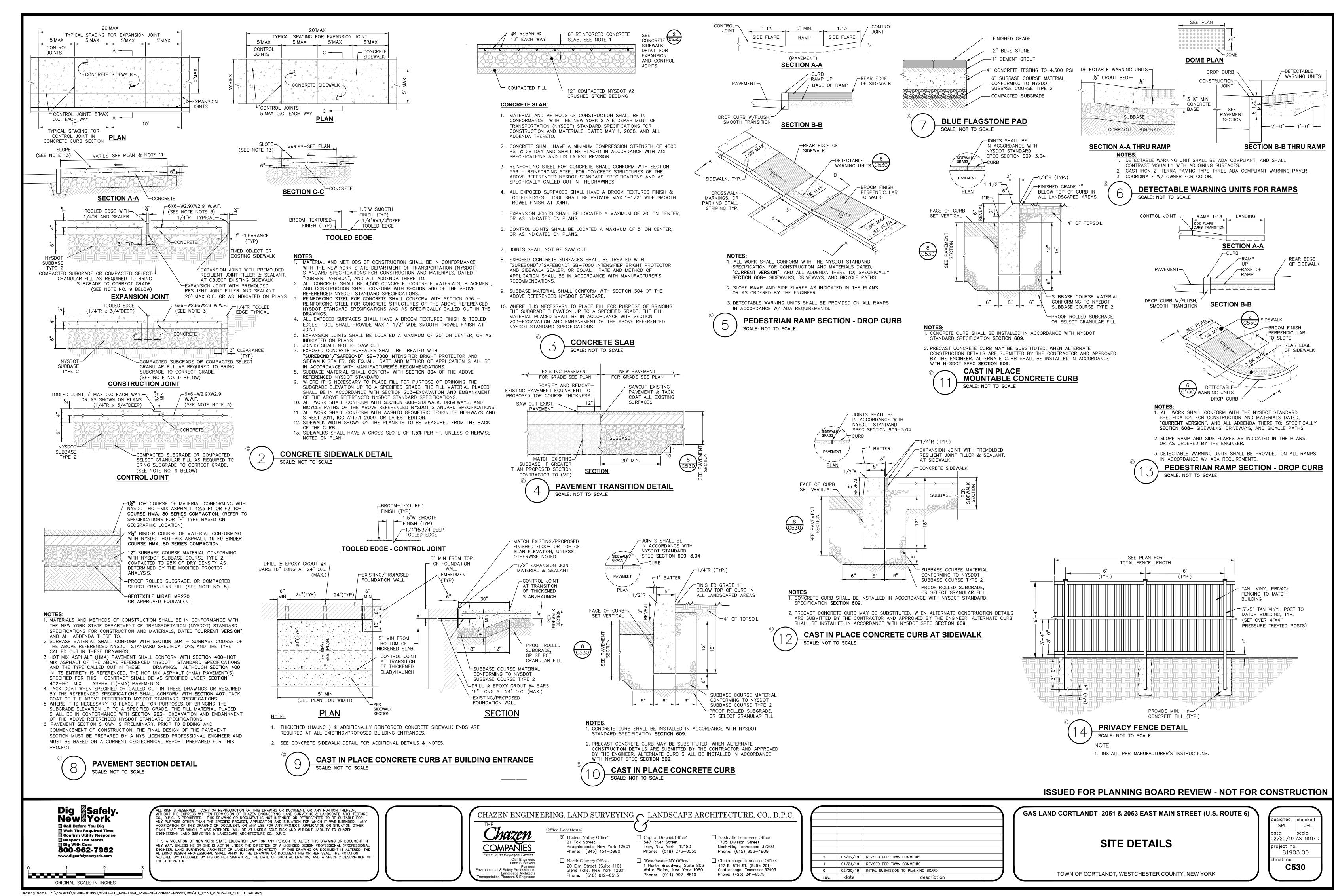
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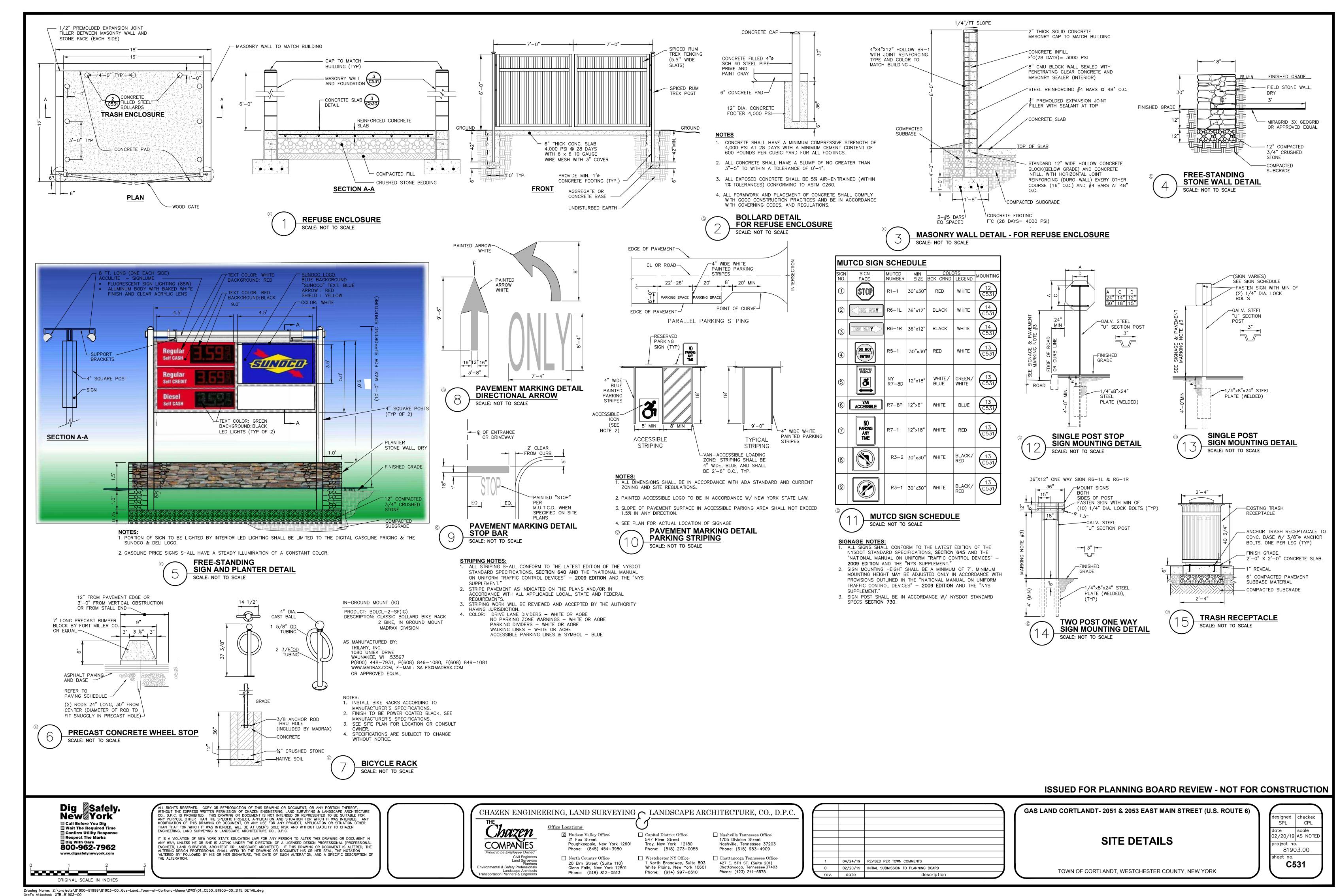
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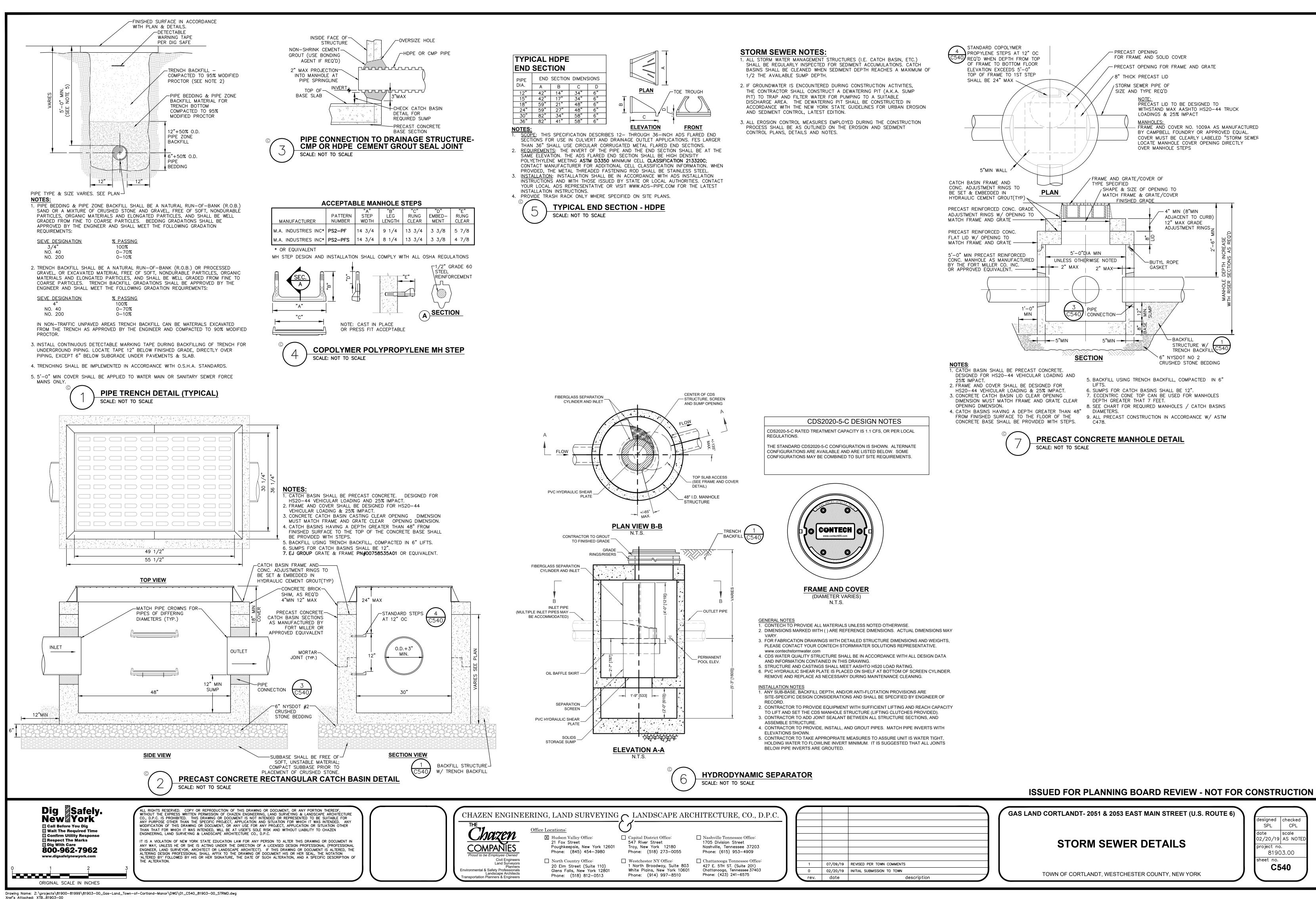
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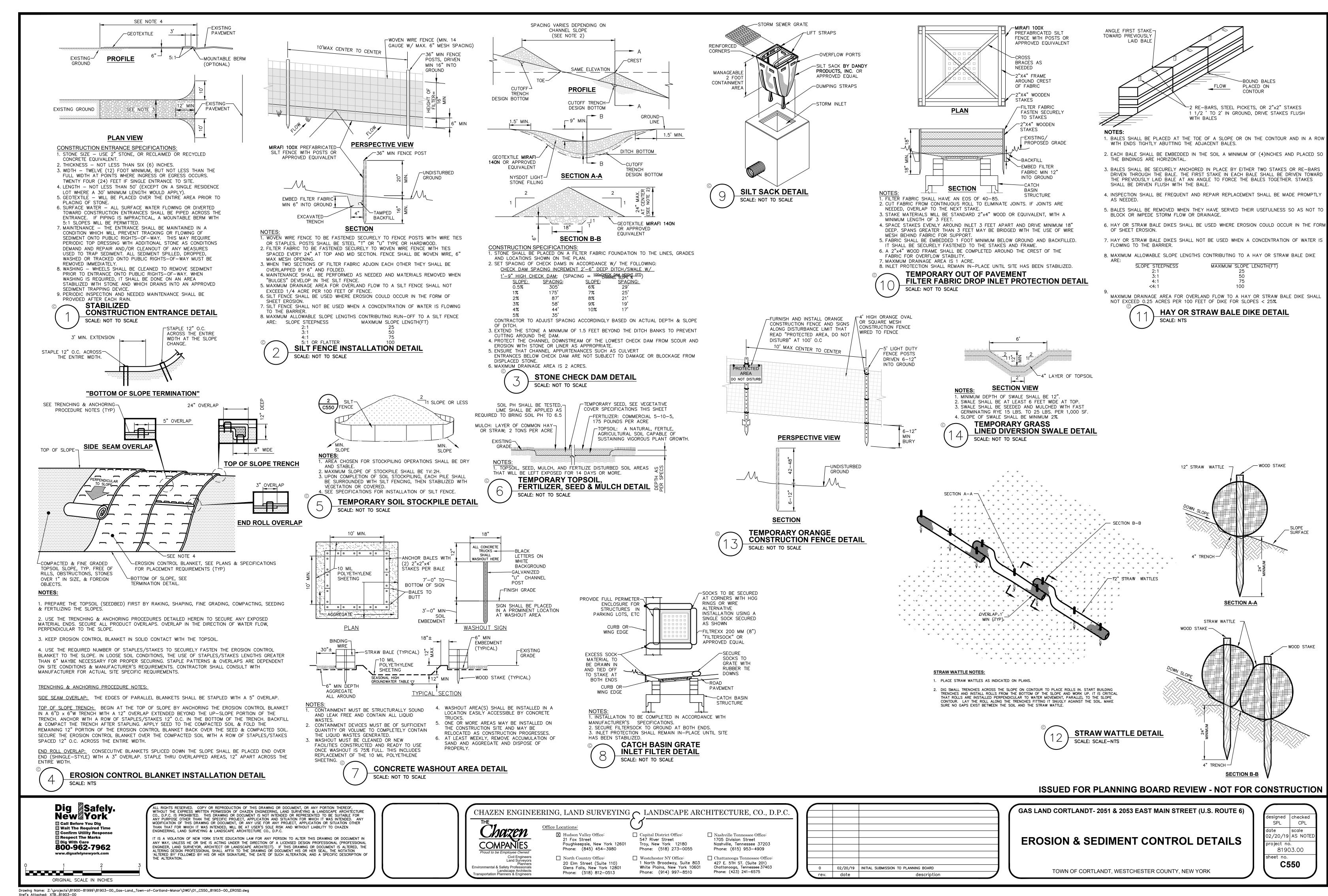
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 $\label{lem:projects} \begin{tabular}{ll} Drawing Name: Z: projects $81900-81999 $81903-00\_Gas-Land\_Town-of-Cortland-Manor DWG $01\_C200\_81903-00\_MITIGATION. dwg $1903-00\_MITIGATION. dwg $1903-00\_$ Xref's Attached: XTB\_81903-00; XLAYOUT\_81903-00; XUTIL\_81903-00; XBASE-ENG\_81903-00; XTRAFFIC\_MASER\_81903-00; XLANDSC\_81903-00; XGRAD\_81903-00; XMITIGATION\_81903-00 Date Printed: Oct 08, 2019, 11:06am









1. THE TOTAL AREA OF DISTURBANCE PLANNED FOR THIS PROJECT IS LESS THAN 1 AREA THEREFORE A SPDES GENERAL PERMIT (GP-0-15-002) IS NOT REQUIRED.

#### **EROSION AND SEDIMENT CONTROL MEASURES:**

- DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES. 2. 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 BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.

### 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.

STABILIZED CONSTRUCTION ENTRANCE:
INSPECT 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 CARRIED 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

SILT FENCE:
INSPECT 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. IF 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 THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO 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.

<u>DUST CONTROL:</u>
SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS 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 DISTÙRBED ÁREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND FROSION PROBLEMS.

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 THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER APPROVAL OF ENGINEER.

EROSION CONTROL BLANKET:
INSPECT THE BLANKET EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. REPLACE WIRE STAPLES AS REQUIRED. REPAIR AND RESEED WHERE CRACKS AND DAMAGED VEGETATION IS EVIDENT. WHEN DAMAGED BEYOND REPAIR OR NO LONGER FUNCTIONING, THE BLANKET SHALL BE REPLACED.

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

TEMPORARY SWALE:
INSPECT ALL EARTH DIKES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL

AREAS DAMAGED BY EROSION SHALL BE REPAIRED IMMEDIATELY. SEDIMENT TRAP:
INSPECT ALL SEDIMENT TRAPS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT.

SEDIMENT SHALL BE REMOVED AND THE TE

REPAIRS SHALL BE MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 OF THE DESIGN DEPTH OF THE TRAP.

STORM DRAIN INLET PROTECTION:
INSPECT ALL STORM DRAIN INLET PROTECTION DEVICES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE REPAIRS AS NEEDED, REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY.

<u>DEWATERING PITS:</u> (IF REQUIRED) — INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PIPES OF OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, PIT SHALL BE DISMANTLED AND CONSTRUCT NEW PITS AS

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

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

- STOCKPILES. 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 BE 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. 4. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH
- VEGETATIVE COVER SPECIFICATIONS. 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.
- . WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

#### TOPSOIL SPECIFICATIONS:

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.

- 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 APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE
- STEEPER THAN 5%. 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. D. CONTAINING THE FOLLOWING WASHED GRADATIONS: SIEVE DESIGNATION % PASSING

97-100 ŃO 200 20-60

#### 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):
- (SAME AS PERMANENT VEGETATIVE COVER)
- 2. SEED MIX: (APPLY AT RATE OF 3 TO 4 LBS PER 1000 SF) AMOUNT BY: MINIMUM %
- WEIGHT SPECIES OR VARIETY PURITY GERMINATION
  100% ANNUAL RYEGRASS 98% 90%
- SEEDING (SAME AS PERMANENT VEGETATIVE COVER)

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

- A. BRING AREA TO BE SEEDED TO REQUIRED GRADE. A MINIMUM OF 4" OF TOPSOIL IS
- B. 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
- SURFACE. 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)

#### SUN AND PARTIAL SHADE:

, ,,,,,		14111 411141 0 141	
<b>WEIGHT</b>	SPECIES OR VARIETY	PURITY	<b>GERMINATION</b>
50%	KENTUCKY BLUE GRASS*	95%	80%
20%	PERENNIAL RYE	98%	90%
<u> 30%</u>	CREEPING RED FESCUE	97%	85%

\*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS.

MINIMUM %

AMOUN	T BY:	MINIMUM %		
WEIGHT	SPECIES OR VARIETY	PURITY	GERMINATION	
25%	KENTUCKY BLUE GRASS**	95%	80%	
20%	PERENNIAL RYE	98%	90%	
35%	CREEPING RED FESCUE	97%	85%	
20%	CHEWINGS RED FESCUE	97%	85%	
<del>100</del> %				

### \*\*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 LBS/ACRE.
- 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

OCATION	COMPACTION	TESTING FREQUENCY
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 CONE BACKFILL	95% ASTM D1557	1 TEST FOR EACH 150 FT OR LESS OF TRENCH LENGTH.
PAVEMENT SUBBASE AND AST LIFT OF SELECT PRANULAR FILL (FILL PETWEEN SHEET PILES)	95% ASTM D1557	1 TEST FOR EVERY 2,000 SQ FT, OF LIFT AREA BUT NO FEWER THAN TWO TESTS PER LIFT

## **ISSUED FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION**

lesigned checked

SPL CPL

02/20/19 NTS

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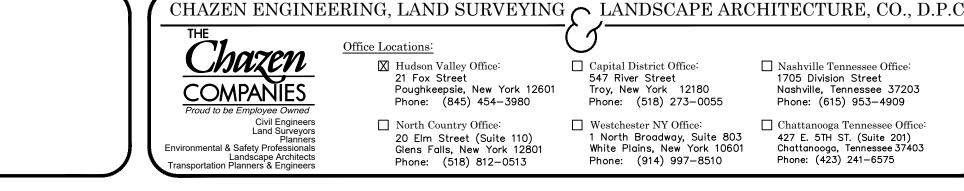
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ORIGINAL SCALE IN INCHES

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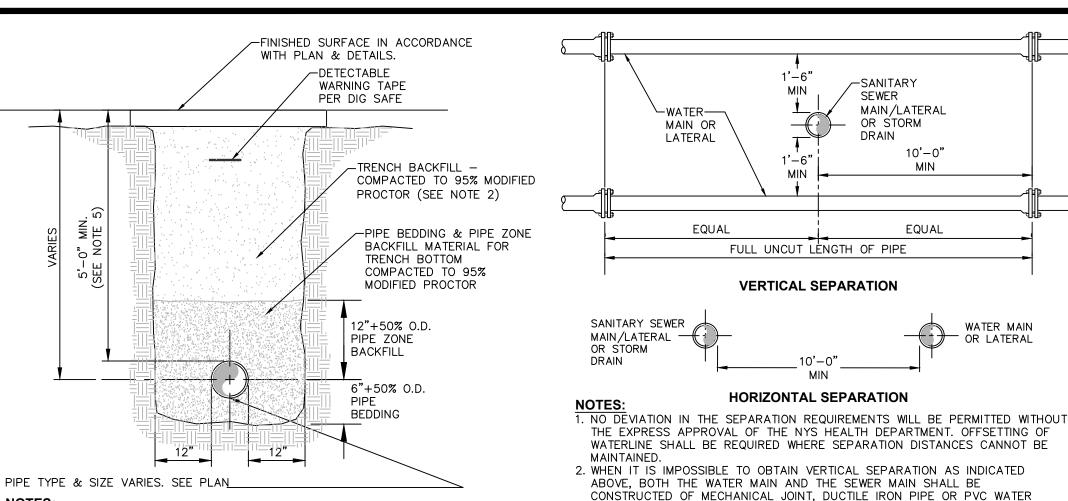
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02/20/19 INITIAL SUBMISSION TO PLANNING BOARD date

GAS LAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

**EROSION & SEDIMENT CONTROL NOTES** 

TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK



. 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 FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION **% PASSING** 100% 0-70% 0-10%

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:

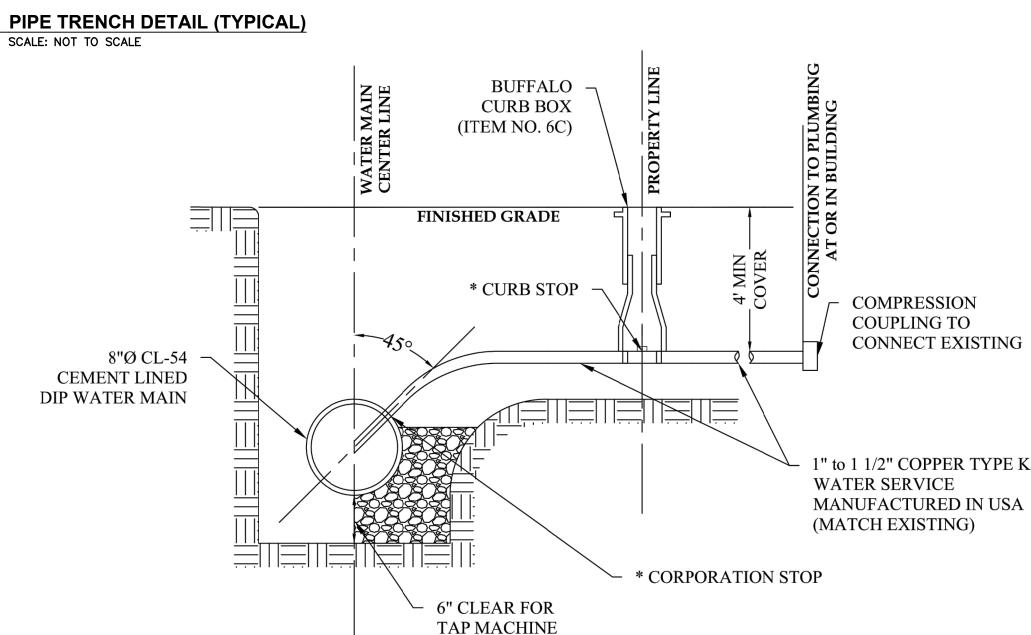
SIEVE DESIGNATION % PASSING 100% 0-70% NO. 200 0-10%

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.



## NOTES:

- CURB BOX AND CORPORATION STOP TO BE MUELLER OR EQUAL
- 2. REFER TO LAYOUT PLAN FOR LOCATION OF ALL SERVICE CONNECTIONS.
- COMPRESSION COUPLING REQUIRED FOR 16 HIGH RIDGE ROAD RE-CONNECT.
- 4. CURB BOX SHALL BE LOCATED 5' TO 10' FROM EDGE OF PAVEMENT AT PROPERTY LINE.

TYPICAL WATER SERVICE CONNECTION DETAIL SCALE: NOT TO SCALE

## FINISHED GRADE MAIN/LATERAI -SANITARY SEWER OR STORM SEWER -PROPOSED WATERLINE FOUAL **ELBOW** (TYP.)

WATER MAIN

OR LATERAL

WORKS GRADE PRESSURE PIPE FOR 10' EACH SIDE OF CROSSING AND SHALL

SANITARY/STORM SEWER AND

WATERMAIN SEPARATION DETAIL

BE PRESSURE TESTED TO 150psi TO ASSURE WATER TIGHTNESS.

SCALE: NOT TO SCALE

. WHEN THE ELEVATION OF THE SEWER CAN NOT BE VARIED TO MEET THE ABOVE REQUIREMENTS, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS REQUIRED SEPARATION.

> 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.

COMPACTED

SUBGRADE

## WATERLINE OFFSET DETAIL SCALE: NOT TO SCALE

#### - ROUTE DRAIN THROUGH EXTERIOR WATTS SERIES WALL (FIX & REPAIR WALL AS LF009 RPZ 12" CLEAR NEEDED) SPACE -EXTEND 3" DRAIN LINE TO A NON-PEDESTRIAN AREA OUTSIDE THROUGH EXTERIOR WALL AND DISCHARGE 18" MIN ABOVE GRADE (PROVIDE S.S. 24# MESH SCREEN AT END OF DRAIN LINE AND AIR GAP REDUCER SECURE W/S.S. PIPE CLAMP) -FINISHED GRADE FFE\_ 3"ø PVC SCH80 DRAIN----—— GALVANIZED STEEL PIPE SUPPORT (TYP) LINE @ 4% SLOPE - EXTERIOR WALL NOTES: 8" MIN 1½" WATTS SERIES-LF009 RPZ CLEAR SPACE <u>PLAN</u>

**GENERAL CONSTRUCTION NOTES:** 

SPECIFIC PERMIT REQUIREMENTS.

PRESENCE

1. ALL UTILITY WORK INVOLVING CONNECTION TO EXISTING MUNICIPAL

2. THE CONTRACTOR SHALL VERIFY THE PRESENCE OF AND EXACT

3. THE CONTRACTOR SHALL REVIEW ALL FIELD UTILITY MARKOUT

LOCATION SHOWN, AND ADDITIONAL UTILITIES MAY EXIST.

REPRESENTATIVE. NOTIFY OWNER AND THE OWNER'S

WATER MAIN SHALL BE COORDINATED WITH OWNER AND OWNER'S

REPRESENTATIVE 3 WORKING DAYS BEFORE CONNECTION IS MADE.

LOCATION OF ALL UTILITIES PRIOR TO COMMENCING ANY EXCAVATION

WORK AS THE EXACT LOCATION OF UTILITIES MAY DIFFER FROM THE

INFORMATION AND BRING ANY CONFLICTS TO THE ATTENTION OF THE

PROJECT ENGINEER PRIOR TO COMMENCING ANY WORK OPERATIONS.

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

4. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS AT

ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY

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

LOCATION OF UNDERGROUND STRUCTURES AND UTILITIES ARE NOT

BELOW GRADE, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED

IMMEDIATELY BY THE CONTRACTOR AT HIS OWN EXPENSE.

KNOWN. ANY DAMAGE TO EXISTING STRUCTURES/UTILITIES ABOVE OR

THE PROPOSED STRUCTURES AND WATER LINES AS THE EXACT

EXISTING CONDITIONS PRIOR TO PERFORMING WORK. THE CONTRACTOR

TEST PITS MAY BE REQUIRED BY THE CONTRACTOR TO VERIFY

 ALL REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AS PER THE JANUARY 1992 NYSDOH "GUIDELINES FOR DESIGNING BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS".

2. PROVIDE THE FOLLOWING CLEARANCES FOR MAINTENANCE OF THE BACKFLOW PREVENTION DEVICE: - 12" MIN CLEAR SPACE ABOVE THE ASSEMBLY

- 30" MIN OF CLEAR SPACE BETWEEN THE FRONT SIDE OF THE DEVICE

AND THE NEAREST WALL OR OBSTRUCTION - 8" MIN OF CLEAR SPACE FROM THE BACK SIDE OF THE DEVICE

TO THE NEAREST WALL OR OBSTRUCTION - 18" MIN CLEARANCE BETWEEN THE BOTTOM OF THE RELIEF VALVE AND THE FLOOR (RPZ ONLY) - AN AIR GAP OF AT LEAST TWICE THE DIAMETER OF THE DRAIN LINE SHALL BE PROVIDED ABOVE THE FLOOR DRAIN. THE AIR GAP SHALL IN NO CASE BE LESS THAN 1 INCH (RPZ ONLY)

3. FOLLOWING COMPLETION OF THE INSTALLATION, THE OWNER SHALL BE RESPONSIBLE FOR TESTING. THE BACKFLOW PREVENTION DEVICE SHALL BE TESTED BY A NYSDOH FORM 1013 AND PROVIDED TO OWNER AND

4. THE OWNER SHALL BE RESPONSIBLE FOR TESTING ALL BACKFLOW PREVENTION DEVICES AT LEAST ANNUALLY. THE TEST SHALL BE COMPLETED BY A NYS CERTIFIED TESTER WITH A COPY OF THE INSPECTION AND TEST REPORT (DOH-1013) FORWARDED TO DUTCHESS COUNTY WATER & WASTEWATER SUTHORITY AND

THE DUTCHESS COUNTY DEPARTMENT OF HEALTH. 5. ALL BACKFLOW PREVENTION DEVICES SHALL BE COMPLETELY DISASSEMBLED AND RE-ASSEMBLED EVERY FIVE (5) YEARS FOR MAINTENANCE PURPOSES.

## REDUCED PRESSURE ZONE **ASSEMBLY-PLAN & ELEVATION VIEW** SCALE: NOT TO SCALE

#### **WATER MAIN NOTES:**

- 1. ALL WATER MAINS SHALL BE CEMENT LINED DUCTILE IRON PIPE, CLASS 52 PUSH-ON JOINT, UNLESS OTHERWISE SPECIFIED BY OR APPROVED BY THE TOWN WATER DEPARTMENT. JOINING SHALL EMPLOY MECHANICAL JOINT RESTRAINT CONNECTIONS SUCH AS CLOW F-1058, MEGALUG, STAR PIPE SERIES 600 "MEGALUG" CONNECTIONS, FIELD LOK GASKET. OR AS ALTERNATIVELY SPECIFIED BY THE TOWN WATER DEPARTMENT. ALL WATER PIPING CONSTRUCTION SHALL BE TO THE SPECIFICATIONS OF THE TOWN WATER DEPARTMENT. WET TAP OF PUBLIC WATER SYSTEM SHALL BE APPROVED AND SUPERVISED BY THE TOWN WATER DEPARTMENT. TAPPING SLEEVI SHALL BE STAINLESS STEEL OR APPROVED EQUAL. ALL MAINLINE VALVES SHALL BE RESILIENT WEDGE OR APPROVED EQUAL.
- 2. 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 RATEING THAT THE PRESSURE CLASS FOR THE
- 3. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPE SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER LINE AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN 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 MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
- 4. ALL WATER MAINS SHALL HAVE A MINIMUM OF (5) FIVE FEET OF COVER FROM THE TOP OF THE MAIN TO FINISHED GRADE. THE CONTRACTOR SHALL CHECK ALL FINISHED GRADE STAKES BEFORE TRENCHING TO ENSURE THAT ALL INSTALLED WATERMAINS WILL HAVE THE REQUIRED COVER.
- 5. THE CONTRACTOR SHALL COORDINATE THE TESTING WITH THE WATER DEPARTMENT SO AS TO MAINTAIN THE AMOUNT OF SERVICE INTERRUPTION TO EXISTING USERS TO THE LEAST EXTENT PRACTICABLE. WATER MAIN INSTALLATION AND TESTING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER OR HIS DESIGNEE AS NECESSARY TO MEET CONDITIONS IN NOTE 5 ABOVE.
- 6. ALL NEW WATER MAIN 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.
- 7. APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER AWWA SECTION C 651 (AS REFERENCED ABOVE), AS DIRECTED BY ENGINEER.
- 8. THE WATER MAIN 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.
- 9. ALL WATER MAIN FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION TIME MUST BE SWAB-DISINFECTED 30 MINUTES PRIOR TO INSTALLATION.
- 10. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING.
- 11. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.
- 12. 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.
- 13. 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.
- 14. THE WATER LINE SHALL BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT HIGH POINTS OR LOW POINTS.
- 15. FINAL WATER DISTRIBUTION SYSTEM IS SUBJECT TO REVIEW, REVISION AND APPROVAL BY THE TOWN WATER DEPARTMENT.
- 16. ALL WATER MAINS AND RELATED APPURTENANCES SHALL BE CONSTRUCTED TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE TOWN.
- 17. THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE
- 18. ALL WATER SERVICE CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE TOWNWATER DEPARTMENT PRIOR TO BACKFILLING.
- 19. 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.
- 20. ALL WATER SERVICE PIPING INSTALLATION, BACKFILL AND TESTING SHALL BE REVIEWED, AND APPROVED BY THE TOWN WATER MAINTENANCE SUPERVISOR OR HIS

#### 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 NOT ALLOWED.
- 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 WHERE: 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 TEST. 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 COMPLETION.

#### WATER NOTES:

- 1. USE RESTRAINED JOINT PIPE AND FITTINGS FOR PROPER RESTRAINT OF WATER MAIN
- 2. ALL BURIED PIPE FITTINGS AND APPURTENANCES SHALL BE RESTRAINED WITH AN APPROVED DUCTILE IRON RESTRAINED JOINT SYSTEM. ALL BENDS, TEES, CROSSES AND DEAD ENDS SHALL BE "TYTON" PUSH-ON FITTINGS PROVIDED WITH "FIELD LOK 350" JOINT RESTRAINT RUBBER GASKET AS MANUFACTURED BY "U.S. PIPE" OR MECHANICAL JOINT FITTINGS PROVIDED WITH "MEGALUG" JOINT RESTRAINT AS MANUFACTURED BY "EBAA IRON". ALL VALVES FOR UNDERGROUND SERVICE SHALL BE PROVIDED WITH MJ END CONNECTIONS AND RESTRAINED WITH "MEGALUG" SERIES 1100 MECHANICAL JOINT RESTRAINT AND RODDING.
- 3. PIPE BEND FITTINGS SHOWN ON THE DRAWINGS ARE INDICATIVE OF PROBABLE DIRECTIONAL CHANGES IN THE PROPOSED WATER MAIN ALIGNMENT. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL FITTINGS, EITHER SHOWN OR FIELD REQUIRED, AS PART OF THE CONTRACTOR'S CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- 4. THE CONTRACTOR SHALL PROVIDE AND INSTALL BRASS WEDGES ACROSS ALL PIPE JOINTS TO ENSURE ELECTRICAL CONDUCTIVITY. THE LOCATION AND THE NUMBER OF WEDGES TO BE PROVIDED SHALL BE ACCORDING TO THE PIPE MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFICATIONS.
- 5. 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.
- 6. 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 OF 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 1,500 FT (MAX.). TESTS SHOULD BE CONDUCTED TO FIRST
- 2. AFTER ALL TESTS AND INSPECTIONS HAVE BEEN PERFORMED EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE TOWN PRIOR TO ACCEPTANCE.
- 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 ENGINEER.

- 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 I GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION BEING TESTEL AND CORRECTED TO THE ELEVATION OF THE GAUGE. PROVISIONS SHALL BE MADE TO RELIEVE AIR TRAPPED AT HIGH POINTS IN THE SYSTEM THROUGH ADJACENT HYDRANTS OR 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 T 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	NOMINA	AL PIPE DIA	AMETER-IN	l.		
PSI	4	6	8	10	12	14	16
450	0.57	0.86	1.15	1.43	1.72	2.01	2.29
400	0.54	0.81	1.08	1.35	1.62	1.89	2.16
350	0.51	0.76	1.01	1.26	1.52	1.77	2.02
300	0.47	0.70	0.94	1.17	1.40	1.64	1.87
275	0.45	0.67	0.90	1.12	1.34	1.57	1.79
250	0.43	0.64	0.85	1.07	1.28	1.50	1.71
225	0.41	0.61	0.81	1.01	1.22	1.42	1.62
200	0.38	0.57	0.76	0.96	1.15	1.34	1.53
175	0.36	0.54	0.72	0.89	1.07	1.25	1.43
150	0.33	0.50	0.66	0.83	0.99	1.16	1.32
125	0.30	0.45	0.60	0.76	0.91	1.06	1.21

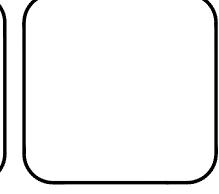
0.27 0.41 0.54 0.68 0.81 0.95 1.08 8. IF LEAKAGE IN SYSTEM EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL, AT NO ADDED COST TO THE OWNER, LOCATE, REPAIR, AND/OR REPLACE DEFECT(S) AND RE-TEST

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ORIGINAL SCALE IN INCHES

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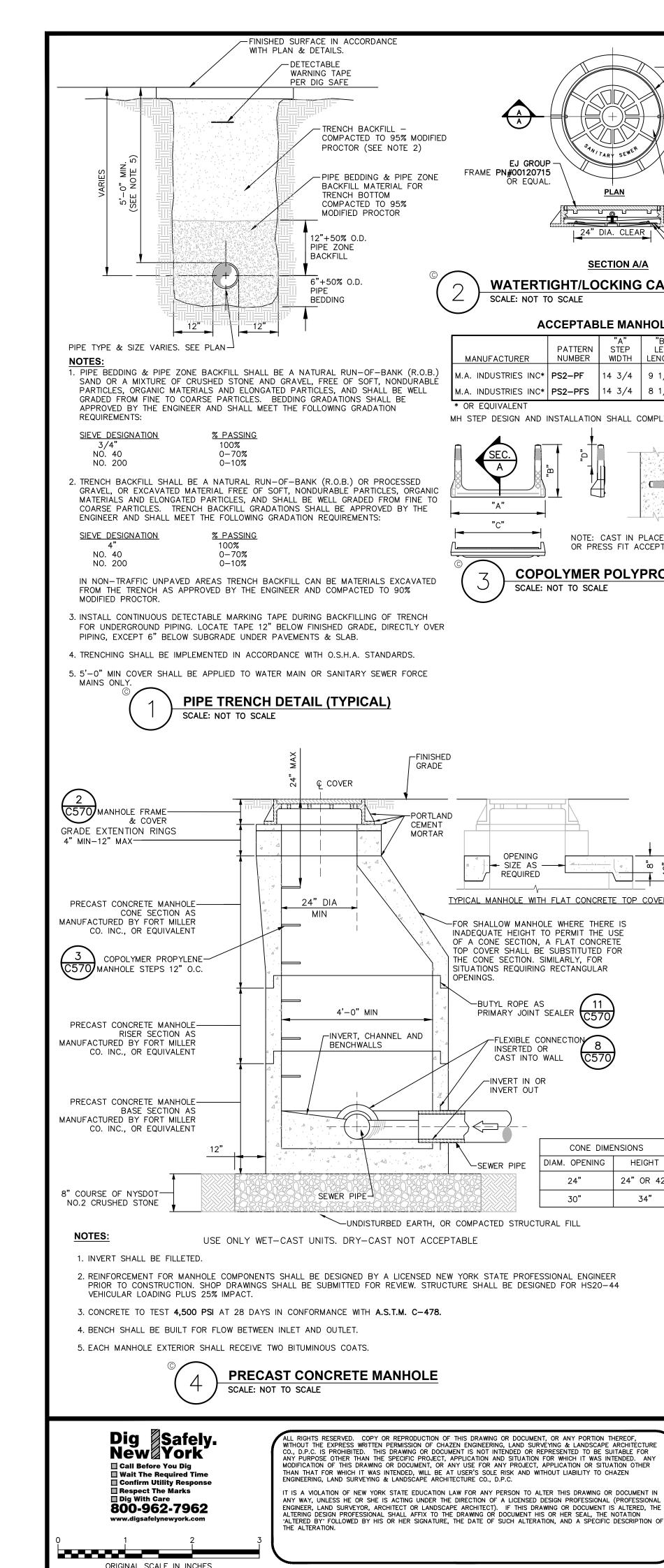
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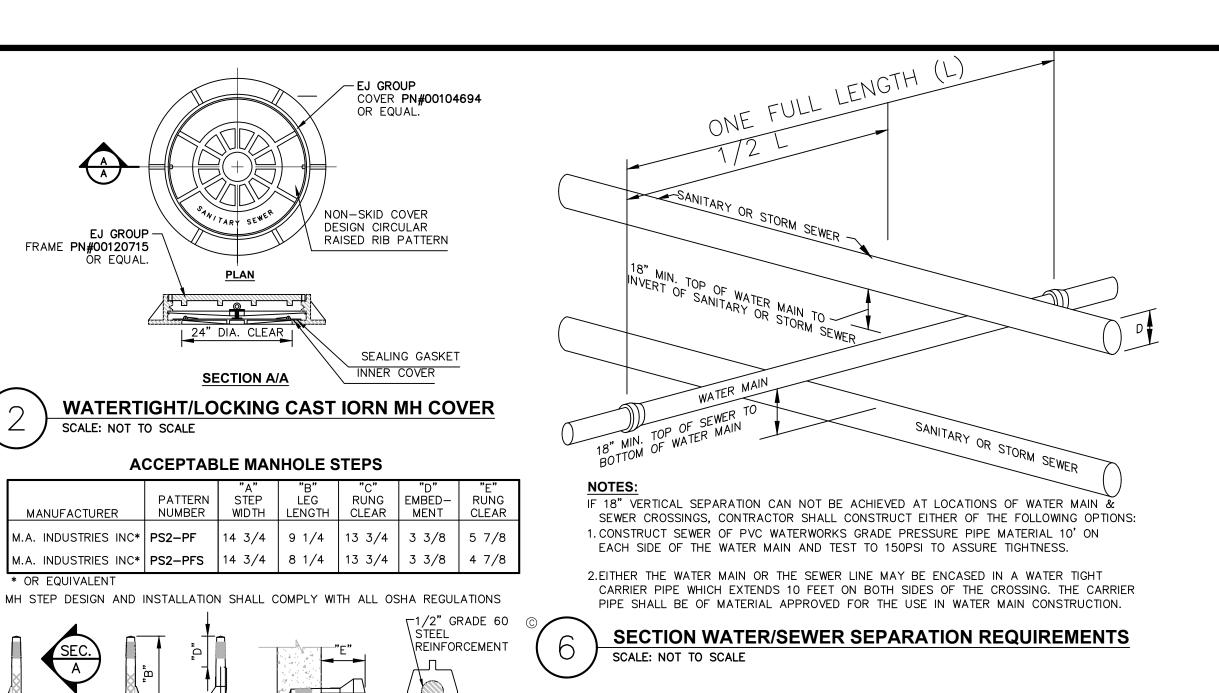
05/22/19 | REVISED PER TOWN COMMENTS 02/20/19 | INITIAL SUBMISSION TO PLANNING BOARD

**WATER DETAILS** 

GAS LAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK





- WATERTIGHT/LOCKING

MORTAR

**CAULKED** 

SANITARY

-FINISHED

GRADE

OUTLET

-12" NYSDOT #2

CRUSHED STÖNE

 $\overline{\phantom{a}}$ 

SECTION VIEW

INLET INVERT

OUTLET INVERT

**SECTION VIEW** 

8'-8 1/2"

PLAN VIEW

2. DIMENSIONS SHOWN ARE PER STRUCTURES MANUFACTURED BY FORT MILLER CO.

. SEPTIC TANKS SHALL BE AS MANUFACTURED BY THE FORT MILLER CO. OR

2" ABOVE

OR EQUAL

NON-SKID COVER

DESIGN CIRCULAR

RAISED RIB PATTERN

SEALING GASKET

SECTION

PROVIDE CONCRETE EXTENSION

INLET

\_\_\_

\_\_

APPROVED EQUIVALENT.

HS20-44 VEHICULAR LOADING PLUS 25% IMPACT.

SCALE: NOT TO SCALE

RINGS AS REQUIRED TO SET

MH COVER FLUSH W/

FINISHED GRADE (TYP)

CAULKED-

SANITARY TEE

JOIN1

BAFFLES IN LIEU OF

TO THE CONTRACTOR

SANITARY TEES AS OPTION

COVER

12" MIN

INNER COVER

FJ GROUP

SCALE: NOT TO SCALE

4" DIA. CLEAR

**SECTION A/A** 

**ACCEPTABLE MANHOLE STEPS** 

NOTE: CAST IN PLACE

SCALE: NOT TO SCALE

OR PRESS FIT ACCEPTABLE

COPOLYMER POLYPROPYLENE MH STEP

FRAME **PN#00120715** 

"A"

**OPENING** 

REQUIRED

SIZE AS ---

TYPICAL MANHOLE WITH FLAT CONCRETE TOP COVER

-FOR SHALLOW MANHOLE WHERE THERE IS

INADEQUATE HEIGHT TO PERMIT THE USE

OF A CONE SECTION, A FLAT CONCRETE

THE CONE SECTION. SIMILARLY, FOR

SITUATIONS REQUIRING RECTANGULAR

INSERTED OR

-INVERT IN OR

INVERT OUT

SEWER PIPE

CAST INTO WALL

-BUTYL ROPE AS

OPENINGS.

TOP COVER SHALL BE SUBSTITUTED FOR

PRIMARY JOINT SEALER (C570

-FLEXIBLE CONNECTION 8

CONE DIMENSIONS

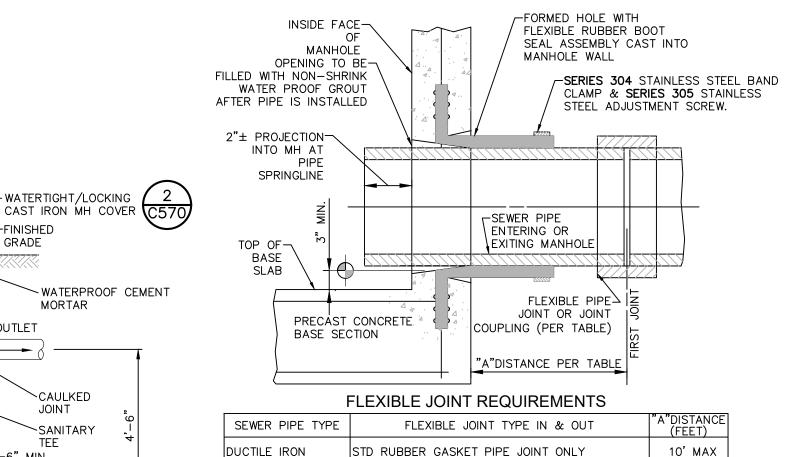
HEIGHT

24" OR 42

34"

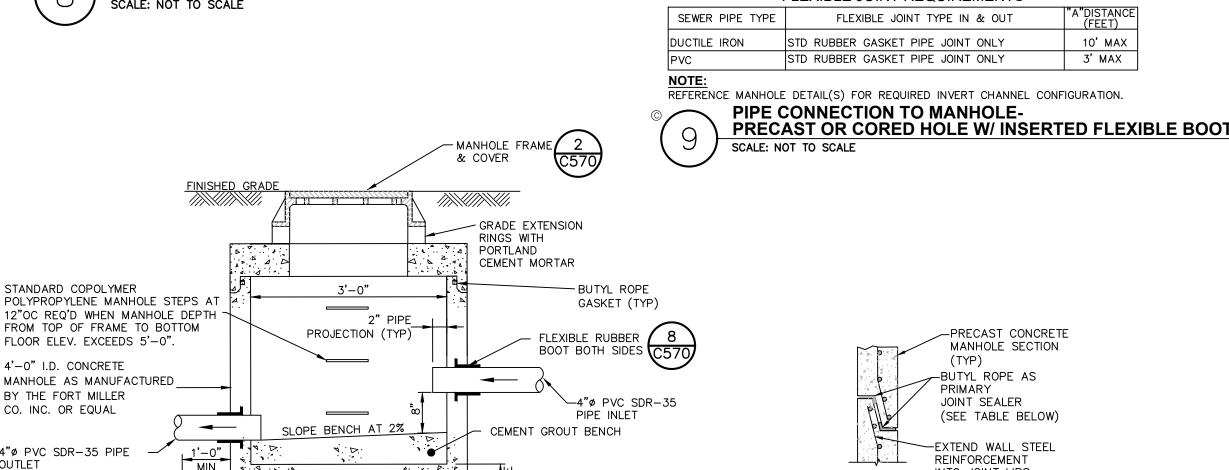
DIAM. OPENING

30"



STD RUBBER GASKET PIPE JOINT ONLY

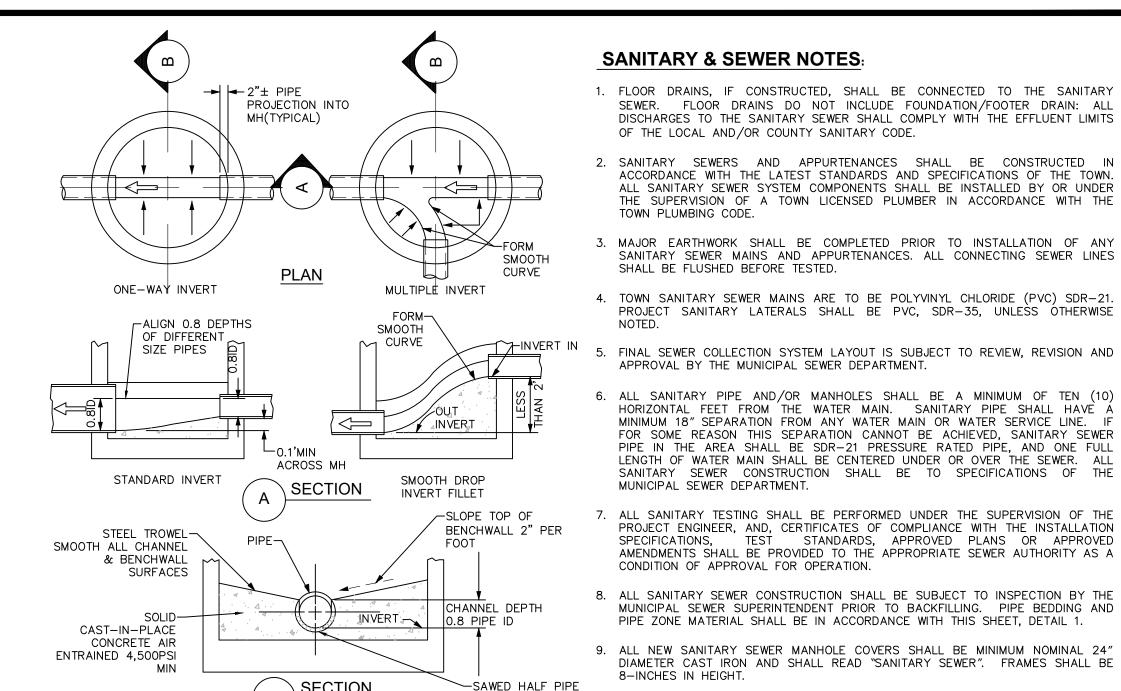
REFERENCE MANHOLE DETAIL(S) FOR REQUIRED INVERT CHANNEL CONFIGURATION. PIPE CONNECTION TO MANHOLE-FLEXIBLE RUBBER BOOT CAST INTO MANHOLE WALL SCALE: NOT TO SCALE



3' MAX

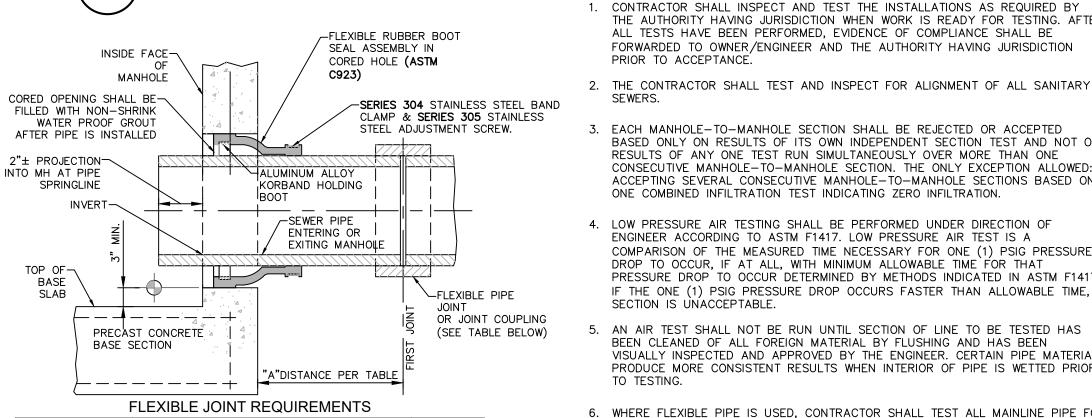
5. EACH MANHOLE EXTERIOR SHALL RECEIVE TWO BITUMINOUS COATS.

**GREASE TRAP EFFLUENT SAMPLING MANHOLE DETAIL** SCALE: NOT TO SCALE



\ SECTION MAY BE USED ENLARGED 50% INLET AND OUTLET OF PIPES SHOWN ON PLAN VIEW OF BASE ARE NOT NECESSARILY TYPICAL OF ALL MANHOLES. REFER TO UTILITY PLAN FOR

INLET\_AND OUTLET DIRECTIONS. INVERT, CHANNEL AND BENCHWALLS SCALE: NOT TO SCALE



6. 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% 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 EXCEPTION.

10. INDICATOR TAPE SHALL BE PLACED 12" BELOW FINISHED GRADE DIRECTLY ABOVE

11. EXTERNAL DROP MANHOLES SHALL BE USED FOR SEWERS ENTERING AT AN

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

EACH MANHOLE-TO-MANHOLE SECTION SHALL BE REJECTED OR ACCEPTED

RESULTS OF ANY ONE TEST RUN SIMULTANEOUSLY OVER MORE THAN ONE

LOW PRESSURE AIR TESTING SHALL BE PERFORMED UNDER DIRECTION OF

ENGINEER ACCORDING TO ASTM F1417. LOW PRESSURE AIR TEST IS A

DROP TO OCCUR, IF AT ALL, WITH MINIMUM ALLOWABLE TIME FOR THAT

ONE COMBINED INFILTRATION TEST INDICATING ZERO INFILTRATION.

BASED ONLY ON RESULTS OF ITS OWN INDEPENDENT SECTION TEST AND NOT ON

CONSECUTIVE MANHOLE-TO-MANHOLE SECTION. THE ONLY EXCEPTION ALLOWED:

ACCEPTING SEVERAL CONSECUTIVE MANHOLE-TO-MANHOLE SECTIONS BASED ON

COMPARISON OF THE MEASURED TIME NECESSARY FOR ONE (1) PSIG PRESSURE

PRESSURE DROP TO OCCUR DETERMINED BY METHODS INDICATED IN ASTM F1417 IF THE ONE (1) PSIG PRESSURE DROP OCCURS FASTER THAN ALLOWABLE TIME

AN AIR TEST SHALL NOT BE RUN UNTIL SECTION OF LINE TO BE TESTED HAS

VISUALLY INSPECTED AND APPROVED BY THE ENGINEER. CERTAIN PIPE MATERIALS

PRODUCE MORE CONSISTENT RESULTS WHEN INTERIOR OF PIPE IS WETTED PRIOR

BEEN CLEANED OF ALL FOREIGN MATERIAL BY FLUSHING AND HAS BEEN

ELEVATION OF 24 INCHES OR HIGHER AT THE INLET OF A SEWER MANHOLE.

TESTING GRAVITY SEWER SYSTEM:

ALL SANITARY LINES.

PRIOR TO ACCEPTANCE.

SECTION IS UNACCEPTABLE.

STANDARDS, APPROVED PLANS OR APPROVED

SEWERS SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES. STRAIGHT ALIGNMENT SHALL BE CHECKED EITHER USING A LASER BEAM OR LAMPING. TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

8. 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.

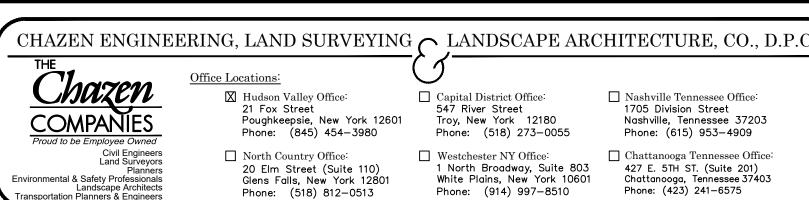
9. IN AREAS WHERE CONVENTIONAL TESTING IS IMPRACTICAL (I.E. AREAS DESIGNATED BY ENGINEER WHERE EXISTING SERVICES ARE TIED INTO NEW LINE IMMEDIATELY AND ANY BLOCKAGE COULD RESULT IN HEALTH PROBLEMS) NO LINES SHALL BE BACKFILLED UNTIL EACH PIPE SECTION AND CONNECTION IS INSPECTED AND APPROVED.

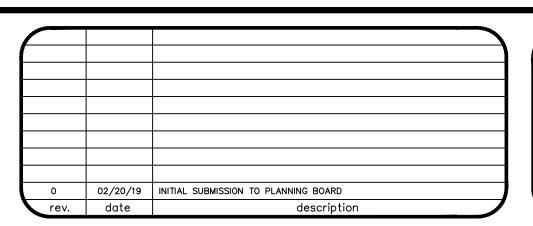
10. WHERE SEWERS ARE CONSTRUCTED OF PRESSURE-RATED PIPE AND INSTALLED WITH LESS THAN 18 INCHES VERTICAL SEPARATION FROM EXISTING OR PROPOSED WATER MAINS, SEWERS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI TO ASSURE WATER TIGHTNESS. HYDROSTATIC ACCEPTANCE TESTS SHALL BE CONDUCTED AS SPECIFIED FOR TESTING 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 SHALI 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

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.

## **ISSUED FOR PLANNING BOARD REVIEW - NOT FOR CONSTRUCTION**





GAS LAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

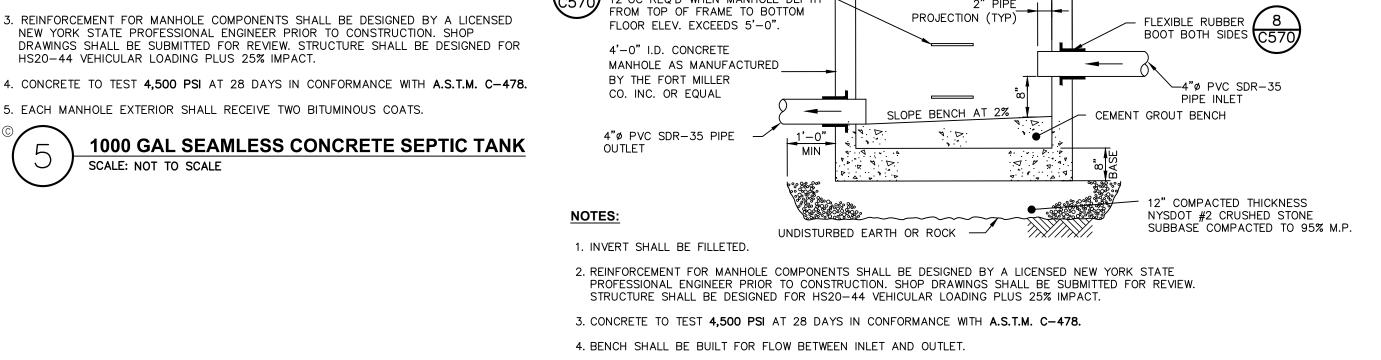
**SANITARY SEWER DETAILS** 

81903.00 C570

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Xref's Attached: XTB\_81903-00 Date Printed: Oct 08, 2019, 10:55am

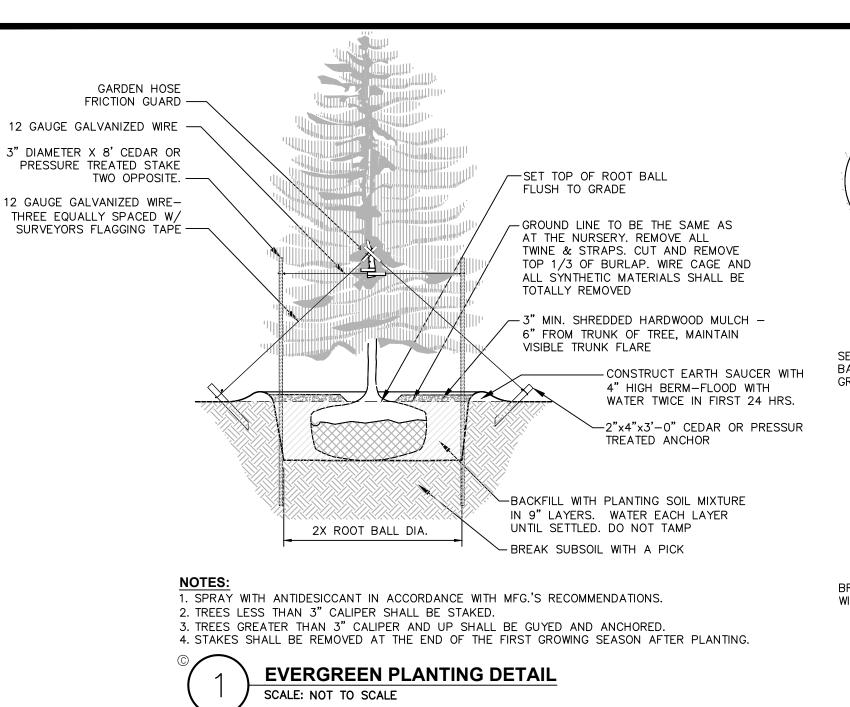
TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK

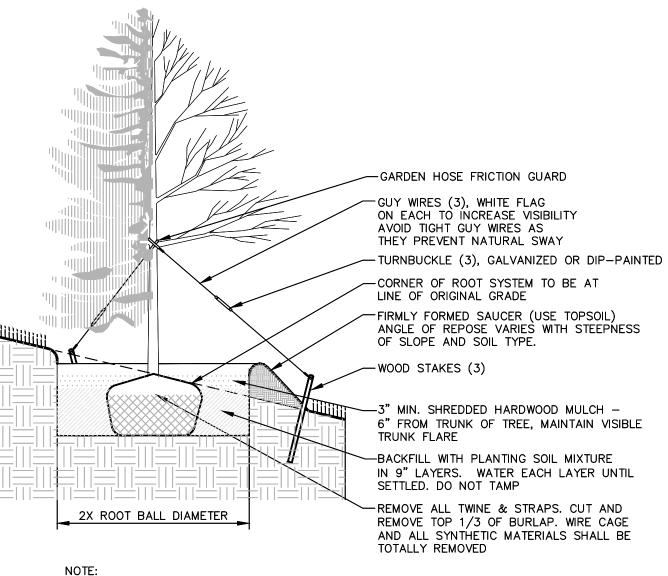


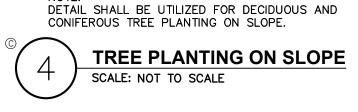
JOINT SEALER (SEE TABLE BELOW) -EXTEND WALL STEEL REINFORCEMENT INTO JOINT LIPS MANHOLE SIZE OF BUTYL ROPE INSIDE DIAMETER JOINT SEALER 5'-0" & LARGER 1 1/2"

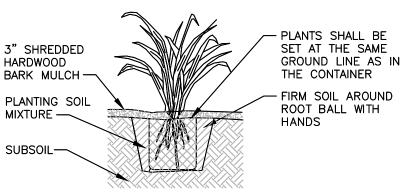
**MANHOLE JOINT** SCALE: NOT TO SCALE

scale 02/20/19|AS NOTE oiect no.







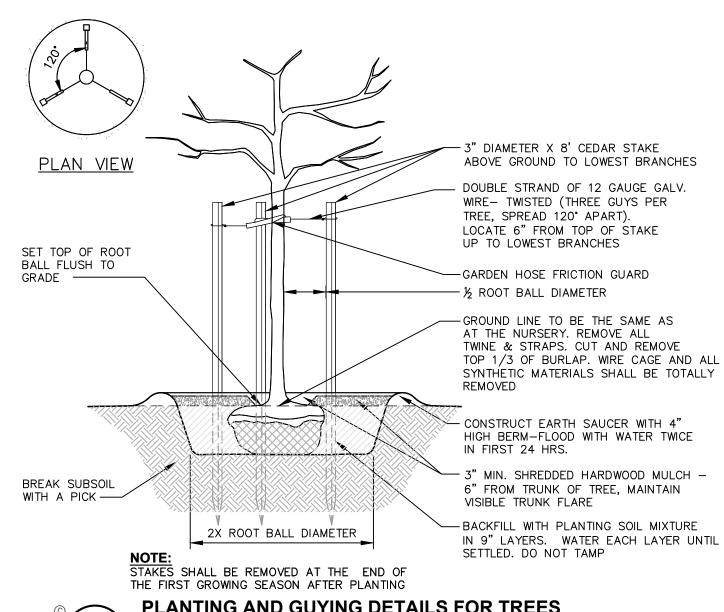


## **SECTIONAL ELEVATION**

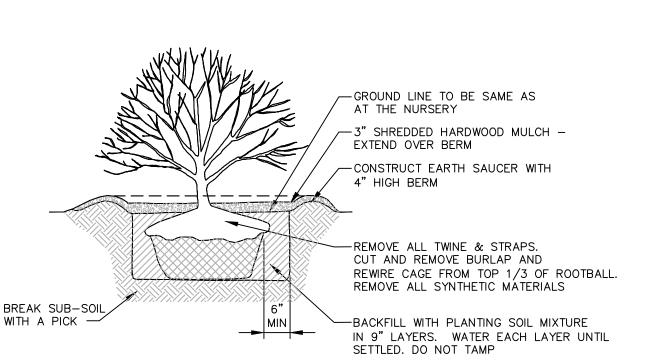
1. SPADED PLANTING SOIL MIX (4"-6" DEPTH), ADD FERTILIZER WHEN MIXING. DO NOT COMPACT ÁFTER PLANTING.

- 2. WATER THOROUGHLY AFTER PLANTING.
- 3. PROVIDE WELL DRAINING SUBSOIL WHEN SOIL IS HEAVY OR COMPACTED.
- 4. PLANTS SHALL BE REMOVED FROM ALL CONTAINERS WHEN PLANTED, UNLESS OTHERWISE STATED IN THE PLANT SCHEDULE.

**CONTAINERIZED PERENNIAL PLANTING** SCALE: NOT TO SCALE



PLANTING AND GUYING DETAILS FOR TREES SMALLER THAN 3" CALIPER, BALLED AND BURLAPPED SCALE: NOT TO SCALE



SPRAY WITH ANTIDESICCANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT.

> SHRUB PLANTING DETAIL FOR ALL SHRUBS BALLED AND BURLAPPED SCALE: NOT TO SCALE

> > 5'-0"MIN

— 2"x4"xVARIABLE

─USE 8 PENNY

-PROVIDE SLEEPERS SECURED TO

AND DEPTH IS NOT ACHIEVABLE

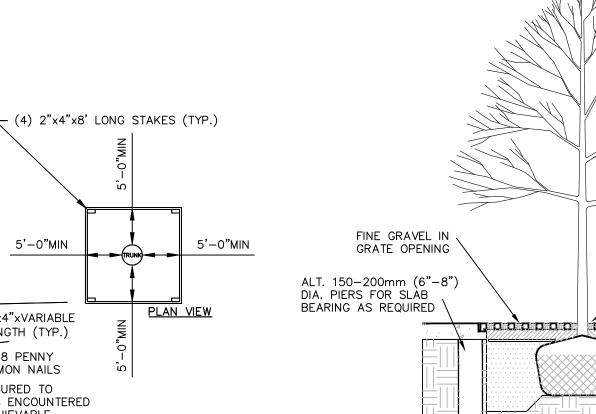
GROUND IF BEDROCK IS ENCOUNTERED

**TEMPORARY TREE PROTECTION DETAIL** 

COMMON NAILS

LENGTH (TYP.)

PLAN VIEW



GRATE OPENING SPECIFY MINIMUN CLEARANCE OF TRUNK TREE GRATE MULCH 50mm (2") MAX. TO BOTTOM OF TREE GRATE, ÚSE FINE GRAVEL NON-BIODEGRADABLE FABRIC SEPARATOR TO PREVENT WEED GROWTH F ROOT BALL IS WRAPPED IN PLASTIC OR NON-BIODEGRADABLE MATERIAL, REMOVE ENTIRE WRAP. IF WRAPPED IN BURLAP, CUT OPEN AT LEAST 1/3 OF TOP PREPARED SUBSOIL TO FORM PEDESTAL TO PREVENT SETTLING AIR AND WATER INFILTRATION PIPE FOR URBAN CONDITION, 50-100mm (2"-4") PERF. TYP. TREE PIT IS THE FULL TREE PIT WIDTH

SET TOP OF ROOT

BALL FLUSH TO

BREAK SUBSOIL

2X ROOT BALL DIAMETER

PLANTING AND GUYING DETAILS FOR TREES

LARGER THAN 3" CALIPER. BALLED AND BURLAPPED

BROKEN BRANCHES

AT THE NURSERY.

EXTEND OVER BERM.

WITH 3" HIGH BERM

GROUND LINE TO BE SAME AS

CONSTRUCT EARTH SAUCER

ENCIRCLING ROOT MASSES

SETTLED. DO NOT TAMP

" SHREDDED HARDWOOD MULCH -

REMOVE CONTAINER AND BREAK APART

-BACKFILL WITH PLANTING SOIL MIXTURE

IN 9" LAYERS. WATER EACH LAYER UNTIL

STAKES SHALL BE REMOVED AT THE END OF

THE FIRST GROWING SEASON AFTER PLANTING

<del>-</del>

SHRUB PLANTING DETAIL

FOR CONTAINERIZED SHRUBS

SPRAY WITH ANTI DESICCANT IN ACCORDANCE WITH

MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT

SCALE: NOT TO SCALE

WITH A PICK /

BREAK SUB-SOIL

WITH A PICK -

GRADE ---

2X BALL DIA., MIN. DECIDUOUS TREE PLANTING IN PAVEMENT WITH METAL GRATE SCALE: NOT TO SCALE

#### LANDSCAPING NOTES:

GARDEN HOSE

FRICTION GUARD

IN FIRST 24 HRS.

VISIBLE TRUNK FLARE

SETTLED. DO NOT TAMP

-DOUBLE STRAND OF 12 GAUGE GALV.

WIRE- TWISTED (THREE GUYS PER

GROUND LINE TO BE THE SAME AS

AT THE NURSERY. REMOVE ALL TWINE &

BURLAP. WIRE CAGE AND ALL SYNTHETIC

MATERIALS SHALL BE TOTALLY REMOVED

CONSTRUCT EARTH SAUCER WITH 4"

HIGH BERM-FLOOD WITH WATER TWICE

OF ANCHOR FLUSH WITH GROUND. ALL

ANCHORS TO BE DRIVEN OUTSIDE OF

6" FROM TRUNK OF TREE, MAINTAIN

BACKFILL WITH PLANTING SOIL MIXTURE

IN 9" LAYERS. WATER EACH LAYER UNTIL

-2"x4"x3'-0" CEDAR OR P.T. ANCHOR; TOP

3" MIN. SHREDDED HARDWOOD MULCH -

STRAPS. CUT AND REMOVE TOP 1/3 OF

TREE, SPREAD 120° APART)

SURVEYOR'S FLAGGING TAPE

- . THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
- 2. THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
- 3. THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
- 4. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE
- . NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
- 6. QUALITY ASSURANCE: A. NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE
- B. SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. (AAN), UNLESS OTHERWISE SPECIFIED.
- C. NURSERY SOURCE: OBTAIN FRESHLY DUG. HEALTHY, VIGOROUS PLANTS NURSERY GROWN UNDER CLIMACTIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HEELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
- D. SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
- 7. SEEDING & PLANTING SEASONS AND TIMING CONDITIONS: A. UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
- B. UNLESS OTHERWISE DIRECTED IN WRITING PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
- C. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE LAWNS OR PLANTINGS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE ARFAS ARF AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE; WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER (TOPSOIL AND TEMPORARY COVER SEED MIX) WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.

A. IMPORTED TOPSOIL: PROVIDE TOPSOIL CONFORMING TO THE

- i. 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.
- ii. 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
- iii. 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.
- iv. CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION % PASSING 97-100

B. SEED MIXTURE: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. PROVIDE THE FOLLOWING MIXTURES:

20-60

#### i. <u>LAWN SEED MIX</u>

NO 200

SUN AND PARTIAL SHADE: MINIMUM % AMOUNT BY: PERENNIAL RYE CREEPING RED FESCUE 97%

\*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN

CORNELL RECOMMENDATIONS FOR TURFGRASS. AMOUNT BY: MINIMUM % KENTUCKY BLUE GRASS\*\* PERENNIAL RYE CREEPING RED FESCUE 97% 85% CHEWINGS RED FESCUE 97% \*\*SHADE TOLERANT VARIETY

ii <u>TEMPORARY COVER SEED MIX</u>

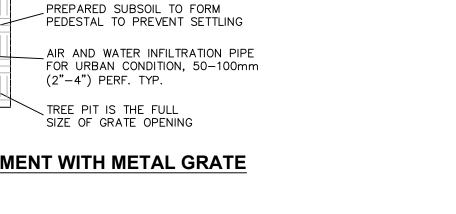
- C. LIME: NATURAL LIMESTONE CONTAINING AT LEAST 85% OF TOTAL CARBONATES, GROUND TO SUCH FINENESS THAT AT LEAST 90% PASSES A 10-MESH SIEVE AND AT LEAST 50% PASSES A 100-MESH
- D. FERTILIZER: FOR STARTER FERTILIZING: COMMERCIAL STARTER FERTILIZER, GRANULAR, NONBURNING PRODUCT CONTAINING 5% NITROGEN, 10% AVAILABLE PHOSPHOROUS, AND 5% WATER SOLUABLE POTASH
- ii. FOR FINAL FERTILIZING: IF APPLIED IN SPRING SEASON, SHALL BE A SLOW RELEASE COMMERCIAL FERTILIZER, GRANULAR, WITH
- 3-1-2 NPK. IF APPLIED IN FALL SEASON, SHALL BE AS SPECIFIED IN (8.D.i) ABOVE. E. TREES, SHRUBS, GROUND COVERS, PERENNIALS, ANNUALS: PLANTING SOIL MIXTURE: SHALL BE PREMIXED IN BULK, AND CONTAIN THE FOLLOWING BY VOLUME:
- 1 PART BONE MEAL . PEAT: BROWN TO BLACK IN COLOR, WEED AND SEED FREE. DRIED SPHAGNUM PEAT, CONTAINING NOT MORE THAN 9% MINERAL ON A
- DRY BASIS AND CONFORMING TO NYSDOT 713-15. iii. BONE MEAL: FINELY GROUND, RAW, MINIMUM 4% NITROGEN AND 20% PHOSPHORIC ACID. IT SHALL BE DELIVERED IN SEALED BAGS
- SHOWING THE MANUFACTURER'S GUARANTEED ANALYSIS. F. STAKES: 8 FEET LONG, 3 INCH DIA. CEDAR OR P.T. WOOD STAKES.
- G. HOSE: NEW, 2-PLY GARDEN HOSE NOT LESS THAN 1/2 INCH IN

30 PARTS TOPSOIL

10 PARTS PEAT

I. WEED CONTROL FABRIC: SOIL CHECK AS MANUFACTURED BY BRIGHTON BYPRODUCTS CO. INC, NEW BRIGHTON, PA; MIRASCAPE OR MIRAFI GEOSYNTHETIC PRODUCTS, NORCROSS, PA, OR APPROVED EQUIVALENT

- LAWN AREAS OAT OR WHEAT STRAW, FREE OF WEEDS. AN ALTERNATIVE IS WOOD FIBER CELLULOSE IF HYDROSEEDING IS USED.
- i. <u>PLANT BED AREAS</u> GROUND OR SHREDDED HARDWOOD BARK, UNCOLORED. NO PIECES OVER 2 INCHES GREATEST DIMENSION. FREE FROM
- A. LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
- B. TOPSOIL SHALL BE SPREAD NO LESS THAN 4" OVER SUB-GRADE MATERIAL. SOIL AMENDMENTS SHALL BE THOROUGHLY MIXED INTO THE TOP 4" OF TOPSOIL, FOLLOWING THE SPECIFICATIONS STATED BELOW.
- . PERFORM FINE GRADING TO FINISHED ELEVATION ONLY IMMEDIATELY PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
- D. FERTILIZING: THE SOIL SHALL BE TESTED FOR PH AND LIME ADDED AS NECESSARY. ALL AMENDMENTS SHALL BE CHECKED AND APPROVED BY LANDSCAPE ARCHITECT BEFORE AMENDMENTS ARE
- ii. APPLY FERTILIZER AT RATE OF 4 LBS/1000 SF FOR LAWN AREAS.
- LAWN SEED MIX: SEED AT THE RATE OF 5 TO 6 LBS PER 1,000
- ii. TEMPORARY COVER SEED MIX: SEED AT THE RATE OF 3 TO 4 LBS
- PER 1,000 SF. iii. TEMPORARY COVER SEED MIX TO BE APPLIED ONLY FOR LATE
- FALL OR SUMMER SOIL STABILIZATION OUTSIDE ALLOWED SEEDING
- F. 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.
- ii. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY A HYDROSEEDER AT A RATE OF 2,000 LBS/ACRE.
- G. ALL SEEDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
- H. ALL NEWLY PLANTED AREAS SHALL BE KEPT MOIST BY WATERING UNTIL GRASSES AND GROUND COVERS ARE WELL ESTABLISHED. THE LANDSCAPE CONTRACTOR MUST WATER PLANT MATERIAL WHEN NECESSARY FOR 60 DAYS AFTER INSTALLATION.
- I. LAWNS ARE TO BE WARRANTED UNTIL THEY BECOME ESTABLISHED, UNTIL FINAL ACCEPTANCE, AND NOT LESS THAN 60 DAYS AFTER COMPLETION OF ALL WORK. TREES, SHRUBS, GROUND COVERS, AND PERENNIALS SHALL BE WARRANTED AGAINST DEFECTS INCLUDING POOR GROWTH AND DEATH, EXCEPT WHEN RESULTING FROM OWNER NEGLECT, INCIDENTS THAT ARE BEYOND THE CONTROL OF THE LANDSCAPE INSTALLER AND DAMAGE OR ABUSE BY OTHERS, FOR AT LEAST ONE FULL YEAR AFTER PROJECT COMPLETION.



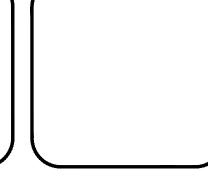
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-FINISH GRADE

SEE LANDSCAPING PLAN FOR ADDITIONAL TREE PROTECTION NOTES.

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onmental & Safety Professionals Landscape Architects ation Planners & Engineers  ☐ Hudson Valley Office: 21 Fox Street Poughkeepsie, New York 12601 Phone: (845) 454-3980 ☐ North Country Office:

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04/24/19 REVISED PER TOWN COMMENTS 02/20/19 INITIAL SUBMISSION TO PLANNING BOARD

LANDSCAPE DETAILS AND NOTES

GAS LAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

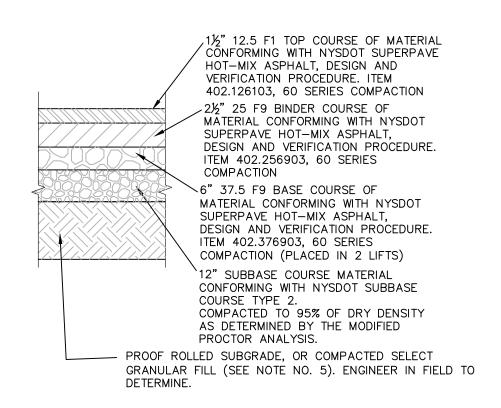
TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK

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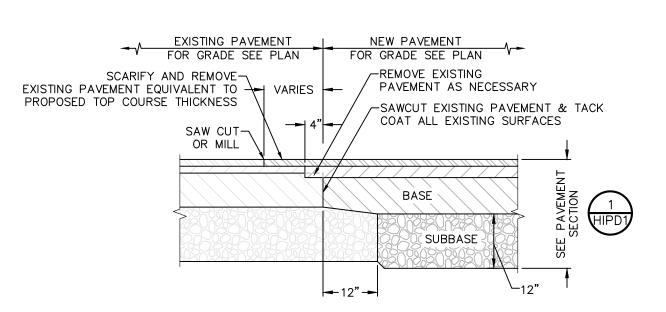
- 1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, AND ALL ADDENDA THERE TO.
- 2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 SUBBASE COURSE OF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

PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 403-HOT MIX

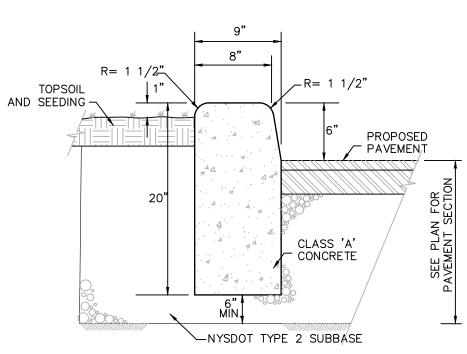
- STANDARD SPECIFICATIONS. 5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION
- 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS. 6. PAVEMENT 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. 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.



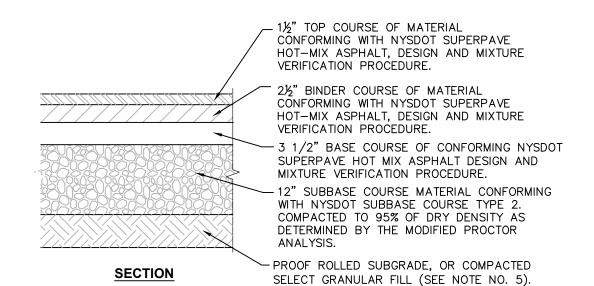
NYSDOT TRAVEL LANE PAVEMENT DETAIL SCALE: NOT TO SCALE





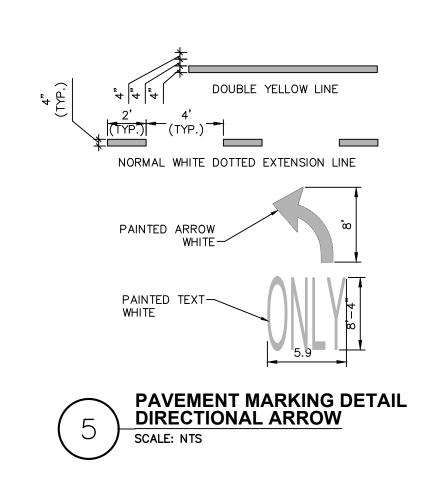






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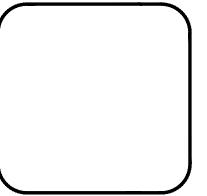
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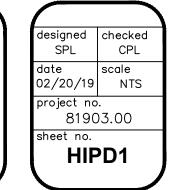
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02/20/19 INITIAL SUBMISSION TO PLANNING BOARD

GAS LAND CORTLANDT- 2051 & 2053 EAST MAIN STREET (U.S. ROUTE 6)

HIGHWAY IMPROVEMENT PLAN SITE DETAILS

TOWN OF CORTLANDT, WESTCHESTER COUNTY, NEW YORK



 $\label{lem:projects} \begin{tabular}{ll} Drawing Name: Z: projects $81900-81999 $81903-00\_Gas-Land\_Town-of-Cortland-Manor DWG $01\_HIPD1\_81903-00\_NYSDOT-DETAIL.dwg $1903-00\_NYSDOT-DETAIL.dwg $1903-00\_NYSDOT-DE$