



Connecticut Department of Energy and Environmental Protection License*

Section 401 Water Quality Certification

Licensee(s): New Britain Water Department

Licensee Address(s): 1000 Shuttle Meadow Ave
New Britain CT 06052

License Number(s): 202404331-WQC

Municipality: Bristol

Project Description: Construct new wells and a new pump house, and dredge the supply pond and canal

Project Address/Location: Maltby Street

Waters: Supply Pond, Canal, and associated wetlands

Authorizing CT Statute(s) and/or Federal Law: Section 401 CWA (33 USC 1341)

Applicable Regulations of CT State Agencies: 22a-426-1 to 9

Agency Contact: Land & Water Resources Division,
Bureau of Water Protection & Land Reuse, 860-424-3019

License Expiration: Upon expiration of the U.S. Army Corps of Engineers Section 404 permit for the same activity.

Project Site Plan Set: 19 plan sheets titled *CITY OF NEW BRITAIN, CONNECTICUT WHITE BRIDGE WATERWORKS FACILITIES UPPER AND LOWER WELLFIELDS AND POND PUMPING STATION*, sheets C-2A, C-7, C-8, C-9, C-10, C-11, C-12, C-13, C-14, C-17, C-23, C-26 dated January 2024 and sheets C-20, C-21, C-22, C-24, C-25, C-27, C-28 dated February 2023, and prepared by CDM Smith.

*Connecticut's Uniform Administrative Procedure Act defines License to include, "the whole or part of any agency permit, certificate, approval, registration, charter or similar form of permission required by law . . ."

License Enclosures: LWRD General Conditions; Site Plan Set; LWRD Work Commencement Form; LWRD Compliance Certification Form

Authorized Activities:

The Licensee is hereby authorized to conduct the following work as described in application # 202404331-WQC and as depicted on any site plan sheets / sets cited herein:

The project will have approximately 220 square feet of permanent watercourse impacts, approximately 33,077 square feet of temporary watercourse impacts, approximately 24,952 square feet of permanent wetland impact, and approximately 720 square feet of temporary wetland impact for a total of 58,969 square feet of impacts to the Supply Pond the Canal and associated wetlands. There will be approximately 102,826 square feet of secondary impacts from dredging the Supply Pond and Canal.

1. Install erosion and sedimentation controls including silt fencing and compost socks as shown on plan sheets C-7 and C-8,
2. Set up dewatering pumps and basins, and install cofferdam in canal shown on plan sheets C-7 and C-8,
3. Dewater supply pond and canal,
4. Install pond access and set up staging area in supply pond as shown on sheet C-23,
5. Dredge supply pond and canal as shown on sheet C-23,
6. Replace intake structure in supply pond and install riprap apron,
7. Replace culverts to canal,
8. Remove cofferdam in canal,
9. Install up to 6 water supply wells at the Lower Wellfield,
10. Install up to 3 water supply wells at the Upper Wellfield,
11. Demolish and remove abandoned well vaults and heads,
12. Construct New Pond Pumping Station,
13. Demolish and remove the existing Pond Pumping Station,
14. Restore disturbed areas, and
15. Remove erosion and sedimentation controls.

Failure to comply with the terms and conditions of this license shall subject the Licensee and / or the Licensee's contractor(s) to enforcement actions and penalties as provided by law.

This license is subject to the following Terms and Conditions:

1. **License Enclosure(s) and Conditions.** The Licensee shall comply with all applicable terms and conditions as may be stipulated within the License Enclosure(s) listed above.

2. **Management of Materials.** Any dredged/excavated sediment removed from the site shall be managed in accordance with all federal, state, and local requirements, including Chapter 446K Water Pollution Control, Chapter 445 Hazardous Waste, and Chapter 446d Solid Waste of the Connecticut General Statutes.
3. **Water Handling.** If final water handling varies from that shown on the plans approved herein, the Licensee shall submit, at least two weeks prior to the commencement of work and for the Commissioner's review and written approval, a final water handling plan.
4. **Wetland Mitigation Plan.** The Licensee shall submit, at least 60 days prior to work commencement, a Wetland Mitigation Plan for the Commissioner's review and written approval.
5. **Mitigation Monitoring and Reporting.** The Licensee shall monitor the mitigation site(s) annually during the growing season (April 1 – September 30) and submit, annually, for a minimum of five years or until the performance standards are met, a corresponding Wetland/Watercourse Mitigation Monitoring Report. Such report shall be submitted to DEEP.LWRDRegulatory@ct.gov by December 15th of each year following the mitigation monitoring. The reports shall include, but not be limited to, the following: photos; dominant vegetation; hydrology and soil indicators; documentation of work conducted in mitigation areas; and status of meeting performance standards.
6. **Protection of Spotted Turtle, *Clemmys guttata* and Wood Turtle, *Glyptemys insulpta*.** Work authorized herein that occurs, in and within, 10 meters of wetlands/watercourses is prohibited between November 1st and March 15th, inclusive of any year, in order to protect dormant turtles.

The Licensee shall follow the following protection strategies for the turtles when working in upland areas from March 15th through November 1st inclusive, unless otherwise approved in writing by the Commissioner:

- a) A qualified herpetologist/biologist shall be hired to oversee the implementation of turtle protection measures and procedures for the duration of the project construction. The name and contact information for the herpetologist/biologist shall be provided to the DEEP at DEEP.LWRDRegulatory@ct.gov and DEEP.Nddbrequest@ct.gov no less than 7 days prior to the start of construction,
- b) Prior to the start of construction, exclusion fencing shall be installed around the limits of the work area to prevent turtle access to the work area. The exclusion fencing must be at least 20 inches tall and must be secured to and remain in contact with the ground. Silt fencing installed for erosion control may serve this like purpose. **The work area includes all areas used for site access, equipment parking, material staging, material storage, and construction purposes,**
- c) The exclusion fencing shall be inspected at least bi-weekly and after major weather events. Any gap or breach in the exclusionary fencing shall be fixed or repaired immediately,
- d) All construction personnel and work crews shall be apprised of the species descriptions and possible presence,
- e) The contractor and consulting herpetologist shall search for turtles within the work area each workday prior to the start of any work activities,

- f) Any turtles that are encountered within the limits of the work area shall be carefully moved, unharmed, to an area immediately outside of the fenced work area and shall be released oriented to head in the same direction as it was found,
- g) All exclusion fencing shall be removed immediately after completion of the project. All soil erosion control fencing shall be removed as soon as soil stabilization is completed, and
- h) All temporary disturbances to wetland habitats shall be restored.

Issued under the authority of the Commissioner of Energy and Environmental Protection on:

Date

Emma Cimino
Deputy Commissioner
Environmental Quality Branch



LWRD General Conditions

1. **Land Record Filing (for *Structures Dredging & Fill, Tidal Wetlands, Certificate of Permission, and Long Island Sound General Permit Licenses only*).** The Licensee shall file the Land Record Filing on the land records of the municipality in which the subject property is located not later than thirty (30) days after license issuance pursuant to Connecticut General Statutes (CGS) Section 22a-363g. A copy of the Notice with a stamp or other such proof of filing with the municipality shall be submitted to DEEP.LWRDRegulatory@ct.gov no later than sixty (60) days after license issuance. If a Land Record Filing form is not enclosed and the work site is not associated with an upland property, no filing is required.
2. **Contractor Notification.** The Licensee shall give a copy of the license and its attachments to the contractor(s) who will be carrying out the authorized activities prior to the start of construction and shall receive a written receipt for such copy, signed and dated by such contractor(s). The Licensee's contractor(s) shall conduct all operations at the site in full compliance with the license and, to the extent provided by law, may be held liable for any violation of the terms and conditions of the license. At the work site, the contractor(s) shall, whenever work is being performed, have on site and make available for inspection a copy of the license and the authorized plans.
3. **Work Commencement¹.** Not later than two (2) weeks prior to the commencement of any work authorized herein, the Licensee shall submit to DEEP.LWRDRegulatory@ct.gov, on the Work Commencement Form attached hereto, the name(s) and address(es) of all contractor(s) employed to conduct such work and the expected date for commencement and completion of such work, if any.
 - For water diversion activities authorized pursuant to 22a-377(c)-1 of the Regulations of Connecticut State Agencies, the Licensee shall also notify the Commissioner in writing two weeks prior to initiating the authorized diversion.
 - For emergency activities authorized pursuant Connecticut General Statutes Section 22a-6k, the Licensee shall notify the Commissioner, in writing, of activity commencement at least one (1) day prior to construction and of activity completion no later than five (5) days after conclusion.
4. **For Coastal Licenses Only - License Notice.** The Licensee shall post the first page of the License in a conspicuous place at the work area while the work authorized therein is undertaken.
5. **Unauthorized Activities.** Except as specifically authorized, no equipment or material, including but not limited to, fill, construction materials, excavated material or debris, shall be deposited, placed or stored in any wetland or watercourse on or off-site. The Licensee may not

¹ The Work Commencement condition and the need for a Work Commencement Form is not applicable to Flood Management Certification approvals.

conduct work within wetlands or watercourses other than as specifically authorized, unless otherwise authorized in writing by the Commissioner. Tidal wetlands means “wetland” as defined by section 22a-29 and “freshwater wetlands and watercourses” means “wetlands” and “watercourses” as defined by section 22a-38.

6. **Management of Materials.** Any materials removed from the site shall be managed in accordance with all federal, state, and local requirements, including Chapter 446K Water Pollution Control, Chapter 445 Hazardous Waste, and Chapter 446d Solid Waste of the Connecticut General Statutes.
7. **Unconfined Instream Work.** Unless otherwise noted in a condition of the license, the following conditions apply to projects in non-coastal waters:
 - Unconfined instream work is limited to the period June 1 through September 30.
 - Confinement of a work area by cofferdam techniques using sand bag placement, sheet pile installation (vibratory method only), portadam, or similar confinement devices is allowed any time of the year. The removal of such confinement devices is allowed any time of the year.
 - Once a work area has been confined, in-water work within the confined area is allowed any time of the year.
 - The confinement technique used shall completely isolate and protect the confined area from all flowing water. The use of silt boom/curtain or similar technique as a means for confinement is prohibited.
8. **For State Actions Only - Material or Equipment Storage in the Floodplain.** Unless approved by a Flood Management Exemption, the storage of any materials at the site which are buoyant, hazardous, flammable, explosive, soluble, expansive, radioactive, or which could in the event of a flood be injurious to human, animal or plant life, below the elevation of the five-hundred (500) year flood is prohibited. Any other material or equipment stored at the site below said elevation by the Licensee or the Licensee's contractor must be firmly anchored, restrained or enclosed to prevent flotation. The quantity of fuel stored below such elevation for equipment used at the site shall not exceed the quantity of fuel that is expected to be used by such equipment in one day. In accordance with the licensee's Flood Contingency Plan, the Licensee shall remove equipment and materials from the floodplain during periods when flood warnings have been issued or are anticipated by a responsible federal, state or local agency. It shall be the Licensee's responsibility to obtain such warnings when flooding is anticipated.
9. **Temporary Hydraulic Facilities for Water Handling.** If not reviewed and approved as a part of the license application, temporary hydraulic facilities shall be designed by a qualified professional and in accordance with the *Connecticut Guidelines for Soil Erosion and Sediment Control*, the *2004 Connecticut Stormwater Quality Manual*, or the *Department of Transportation's ConnDOT Drainage Manual*, as applicable. Temporary hydraulic facilities may include channels, culverts or bridges which are required for haul roads, channel relocations, culvert installations, bridge construction, temporary roads, or detours.
10. **Excavated Materials.** Unless otherwise authorized, all excavated material shall be staged and

managed in a manner which prevents additional impacts to wetlands and watercourses.

- 11. Best Management Practices.** The Licensee shall not cause or allow pollution of any wetlands or watercourses, including pollution resulting from sedimentation and erosion. In constructing or maintaining any authorized structure or facility or conducting any authorized activity, or in removing any such structure or facility, the Licensee shall employ best management practices to control storm water discharges, to prevent erosion and sedimentation, and to otherwise prevent pollution of wetlands and other waters of the State. For purposes of the license, “pollution” means “pollution” as that term is defined by CGS section 22a-423. Best Management Practices include, but are not limited, to practices identified in the *Connecticut Guidelines for Soil Erosion and Sediment Control* as revised, *2004 Connecticut Stormwater Quality Manual*, Department of Transportation’s *ConnDOT Drainage Manual* as revised, and the Department of Transportation Standard Specifications as revised.
- 12. In-Water Work Vessel Staging and Storage. (for Structures Dredging & Fill, Tidal Wetlands, Certificate of Permission, and Long Island Sound General Permit Licenses only).** For any barge, vessel, skiff or floating work platform (“work vessels”) utilized in the execution of the work authorized herein, the Licensee shall ensure that such work vessels:

 - do not rest on, or come in contact with, the substrate at any time, unless specifically authorized in the license.
 - are not stored over intertidal flats, submerged aquatic vegetation or tidal wetland vegetation or in a location that interferes with navigation. In the event any work vessel is grounded, no dragging or prop dredging shall occur to free it.
- 13. Work Site Restoration.** Upon completion of any authorized work, the Licensee shall restore all areas temporarily impacted by construction, or used as a staging area or accessway in connection with such work, to their condition prior to the commencement of such work.
- 14. Inspection.** The Licensee shall allow any representative of the Commissioner to inspect the project location at reasonable times to ensure that work is being or has been conducted in accordance with the terms and conditions of this license.
- 15. Change of Use. (Applies only if a use is specified within the License “Project Description”)**

 - a. The work specified in the license is authorized solely for the purpose set forth in the license. No change in purpose or use of the authorized work or facilities as set forth in the license may occur without the prior written approval of the Commissioner. The Licensee shall, prior to undertaking or allowing any change in use or purpose from that which is authorized by this license, request permission from the Commissioner for such change. Said request shall be in writing and shall describe the proposed change and the reason for the change.
 - b. A change in the form of ownership of any structure authorized herein from a rental/lease commercial marina to a wholly-owned common interest community or dockominium may constitute a change in purpose as specified in paragraph (a) above.
- 16. De Minimis Alteration.** The Licensee shall not deviate from the authorized activity without prior written approval from the Commissioner. The Licensee may request a de minimis change

to any authorized structure, facility, or activity. A de minimis alteration means a change in the authorized design, construction or operation that individually and cumulatively has minimal additional environmental impact and does not substantively alter the project as authorized.

- For diversion activities authorized pursuant to 22a-377(c)-2 of the Regulations of Connecticut State Agencies, a de minimis alteration means an alteration which does not significantly increase the quantity of water diverted or significantly change the capacity to divert water.

17. Extension Request. The Licensee may request an extension of the license expiration date. Such request shall be in writing and shall be submitted to DEEP.LWRDRegulatory@ct.gov at least thirty (30) days prior to the license expiration. Such request shall describe the work done to date, what work still needs to be completed, and the reason for such extension. The Commissioner may extend the expiration date of this license for a period of up to one year, in order for the Licensee to complete the authorized activities. It shall be at the Commissioner's sole discretion to grant or deny such request. No more than three (3) one-year extensions will be granted under this license.

18. Compliance Certification². Not later than 90 days after completion of the authorized work, the Licensee shall prepare and submit to DEEP.LWRDRegulatory@ct.gov, the attached Compliance Certification Form. Such Compliance Certification shall be completed, signed, and sealed by the Licensee and a Connecticut Licensed Design Professional. If non-compliance is indicated on the form, or the Commissioner has reason to believe the activities and/or structures were conducted in non-compliance with the license, the Commissioner may require the Licensee to submit as-built plans as a condition of this license.

19. Maintenance. The Licensee shall maintain all authorized structures or work in optimal condition or shall remove such structures or facility and restore the affected waters to their pre-work condition. Any such maintenance or removal activity shall be conducted in accordance with applicable law and any additional approvals required by law.

20. No Work After License Expiration. Work conducted after the license expiration date is a violation of the license and may subject the licensee to enforcement action, including penalties, as provided by law.

21. License Transfer. The license is not transferable without prior written authorization of the Commissioner. A request to transfer a license shall be submitted in writing and shall describe the proposed transfer and the reason for such transfer. The Licensee's obligations under the license shall not be affected by the passage of title to the license site to any other person or municipality until such time as a transfer is approved by the Commissioner.

22. Document Submission. Any document required to be submitted to the Commissioner under the license or any contact required to be made with the Commissioner shall, unless otherwise specified in writing by the Commissioner, be directed to:

DEEP.LWRDRegulatory@ct.gov or

² The Work Commencement condition and the need for a Work Commencement Form is not applicable to Flood Management Certification approvals.

Regulatory Section
Land & Water Resources Division
Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5127
860-424-3019

- 23. Date of Document Submission.** The date of submission to the Commissioner of any document required by the license shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under the license, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three (3) days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in the license, the word “day” as used in the license means calendar day. Any document or action which is required by the license to be submitted or performed by a date which falls on a Saturday, Sunday or a Connecticut or federal holiday shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or a Connecticut or federal holiday.
- 24. Certification of Documents.** Any document, including but not limited to any notice, which is required to be submitted to the Commissioner under the license shall be signed by the Licensee and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows: “I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense.”
- 25. Accuracy of Documentation.** In evaluating the application for the license, the Commissioner has relied on information and data provided by the Licensee and on the Licensee’s representations concerning site conditions, design specifications and the proposed work, including but not limited to representations concerning the commercial, public or private nature of the work or structures, the water-dependency of said work or structures, its availability for access by the general public, and the ownership of regulated structures or filled areas. If such information proves to be false, deceptive, incomplete or inaccurate, the license may be modified, suspended or revoked, and any unauthorized activities may be subject to enforcement action.
- 26. Limits of Liability.** In granting the license, the Commissioner has relied on all representations of the Licensee, including information and data provided in support of the Licensee’s application. Neither the Licensee’s representations nor the issuance of the license shall constitute an assurance by the Commissioner as to the structural integrity, the engineering feasibility or the efficacy of such design.
- 27. Reporting of Violations.** In the event that the Licensee becomes aware that they did not or may not comply, or did not or may not comply on time, with any provision of this license or

of any document incorporated into the license, the Licensee shall immediately notify the agency contact specified within the license and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the agency contact, the Licensee shall provide, for the agency's review and written approval, a report including the following information:

- a. the provision(s) of the license that has been violated;
- b. the date and time the violation(s) was first observed and by whom;
- c. the cause of the violation(s), if known;
- d. if the violation(s) has ceased, the duration of the violation(s) and the exact date(s) and times(s) it was corrected;
- e. if the violation(s) has not ceased, the anticipated date when it will be corrected;
- f. steps taken and steps planned to prevent a reoccurrence of the violation(s) and the date(s) such steps were implemented or will be implemented; and
- g. the signatures of the Licensee and of the individual(s) responsible for actually preparing such report.

If the violation occurs outside of normal business hours, the Licensee shall contact the Department of Energy and Environmental Protection Emergency Dispatch at 860-424-3333. The Licensee shall comply with any dates which may be approved in writing by the Commissioner.

- 28. Revocation/Suspension/Modification.** The license may be revoked, suspended, or modified in accordance with applicable law.
- 29. Other Required Approvals.** License issuance does not relieve the Licensee of their obligations to obtain any other approvals required by applicable federal, state and local law.
- 30. Rights.** The license is subject to and does not derogate any present or future property rights or powers of the State of Connecticut, and conveys no property rights in real estate or material nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the property or activity affected hereby.
- 31. Condition Conflicts.** In the case where a project specific special condition listed on the license differs from, or conflicts with, one of the general conditions listed herein, the project specific special condition language shall prevail. It is the licensee's responsibility to contact the agency contact person listed on the license for clarification if needed prior to conducting any further regulated activities.



Compliance Certification Form

The following certification must be signed by the licensee working in consultation with a Connecticut-licensed design professional and must be submitted to the address indicated at the end of this form within ninety (90) days of completion of the authorized work.

1. Licensee Name: _____ New Britain Water Department _____ DEEP License Number(s): _____ 202404331-WQC _____ Municipality in which project is occurring: _____ Bristol _____	
2. Check one: (a) <input type="checkbox"/> "I certify that the final site conditions and / or structures are in general conformance with the approved site plans". Identify and describe any deviations and attach to this form. (b) <input type="checkbox"/> "The final site conditions and / or structures are not in general conformance with the approved site plans. The enclosed "as-built" plans note the modifications".	
3. "I understand that any false statement in this certification is punishable as a criminal offence under section 53a-157b of the General Statutes and under any other applicable law."	
_____ Signature of Licensee	_____ Date
_____ Name of Licensee (print or type)	
_____ Signature of CT-Licensed Design Professional	_____ Date
_____ Name of CT-Licensed Design Professional (print or type)	
_____ Professional License Number (if applicable)	Affix Stamp Here <div style="border: 1px solid black; width: 150px; height: 100px; display: inline-block; vertical-align: middle;"></div>
<ul style="list-style-type: none"> As-built plans shall include: elevations or tidal datums, as applicable, and structures, including any proposed elevation views and cross sections included in the approved license plans. Such as-built plans shall be the original ones and be signed and sealed by an engineer, surveyor or architect, as applicable, who is licensed in the State of Connecticut. The Licensee will be notified by staff of the Land and Water Resources Division (LWRD) if further compliance review is necessary. Lack of response by LWRD staff does not imply compliance. <p>Submit this completed form to : DEEP.LWRDRegulatory@ct.gov or Regulatory Section Department of Energy and Environmental Protection Land & Water Resources Division 79 Elm Street Hartford, CT 06106-5127</p>	



LWRD Work Commencement Form

To: DEEP.LWRDRegulatory@ct.gov or
Regulatory Section
Department of Energy and Environmental Protection
Land & Water Resources Division
79 Elm Street
Hartford, CT 06106-5127

Licensee Name: New Britain Water Department

Municipality in which the project is occurring: Bristol

DEEP License No(s): 202404331-WQC

CONTRACTOR(s):

1 Name: _____
Address: _____
Telephone: _____
E-mail: _____

2 Name: _____
Address: _____
Telephone: _____
E-mail: _____

3 Name: _____
Address: _____

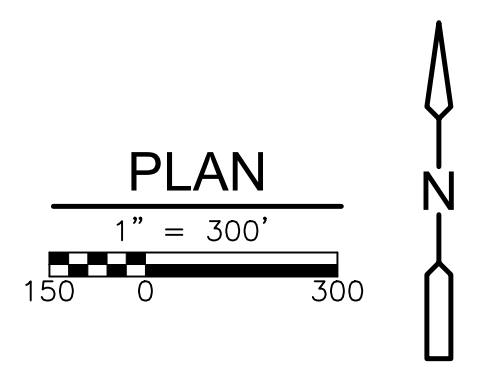
Date Contractor(s) received a copy
of the license and approved plans: _____

EXPECTED DATE OF COMMENCEMENT OF WORK: _____

EXPECTED DATE OF COMPLETION OF WORK: _____

LICENSEE: _____
(Signature) (Date)

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: G. HOWARD
 DRAWN BY: J. BRONENKANT
 SHEET CHK'D BY: G. HOWARD
 CROSS CHK'D BY: K. WAGNER
 APPROVED BY: K. WAGNER
 DATE: JANUARY 2024



CITY OF NEW BRITAIN, CONNECTICUT
 WHITE BRIDGE WATERWORKS FACILITIES
 UPPER AND LOWER WELLFIELDS
 AND POND PUMPING STATION

SHEET INDEX MAP
 SHEET NO. C-2A

PROJECT NO. 10739-264571
 FILE NAME: C002ASTPL.DWG
 SHEET NO. C-2A

XREFS: [CDMS_2436_XSVPLOD0_CEP000ST_CWP0001PS - 2D Process Export, 2022-17, BORING LOCATIONS, Floodway_Floodplain] Images: [Base Image]
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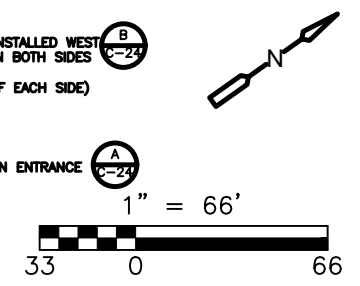
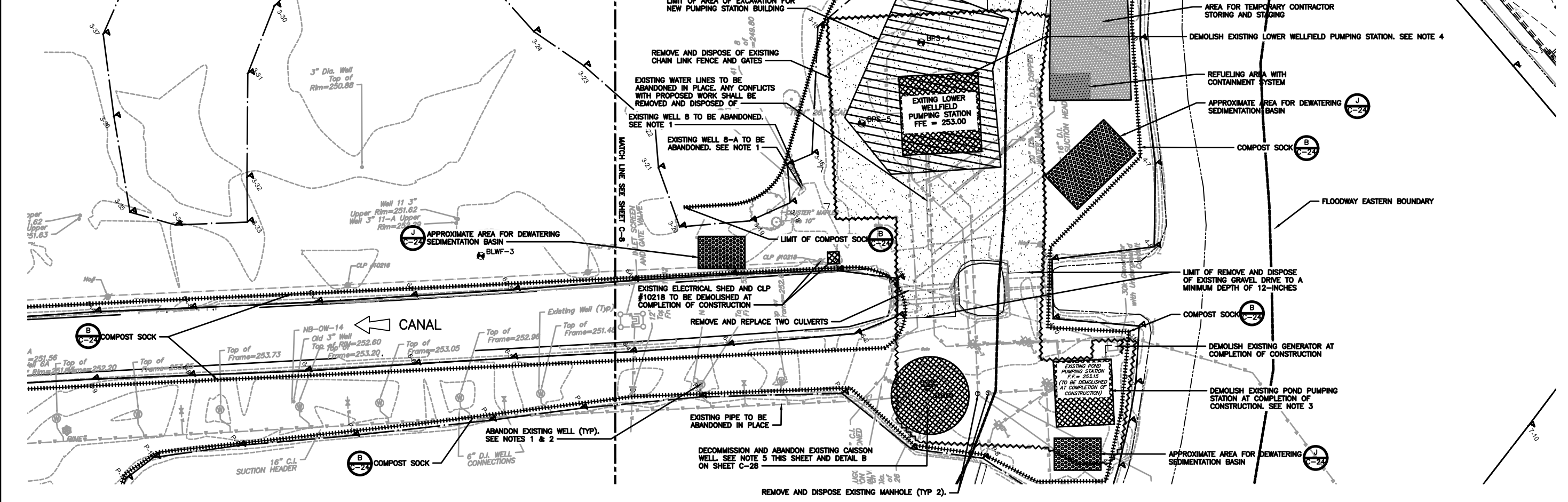
PLAN
N.T.S.

LEGEND

- ##### COMPOST SOCK
- ▨ BUILDING REMOVAL
- ▴ WETLAND FLAG
- ◆ BORING

NOTES:

1. EXISTING WELLS TO HAVE THE WELL HEAD REMOVED TO 5 FEET BELOW FINISHED GRADE, LATERAL DISCHARGE PIPING REMOVED TO THE EXISTING 16" CI SUCTION HEADER PIPE, AND A CAP OR CONCRETE PLUG INSTALLED ON THE ABANDONED HEADER PIPE. SEE SECTION 019416, APPENDED TO THE SPECIFICATIONS, FOR MORE DECOMMISSIONING AND ABANDONMENT REQUIREMENTS OF EXISTING WELLS.
2. EXISTING WELLS WITH WELL HEAD LOCATED IN A VAULT TO HAVE VAULT DEMOLISHED AND REMOVED, WELL HEAD REMOVED TO 5 FEET BELOW BOTTOM OF VAULT, LATERAL DISCHARGE PIPING REMOVED TO THE EXISTING 16" CI SUCTION HEADER PIPE, AND A CAP OR CONCRETE PLUG INSTALLED ON THE ABANDONED HEADER PIPE. SEE SECTION 019416, APPENDED TO THE SPECIFICATIONS, FOR MORE DECOMMISSIONING AND ABANDONMENT REQUIREMENTS OF EXISTING WELLS.
3. THE EXISTING POND PUMPING STATION BUILDING TO BE DEMOLISHED AT COMPLETION OF NEW POND PUMPING STATION TO AT LEAST 2 FEET BELOW FINISHED GRADE. THE WESTERN WALL SHALL REMAIN TO AT LEAST 2 FEET BELOW GRADE. BUILDING FOUNDATION TO BE FILLED AND COMPACTED TO EXISTING GRADE. OWNER TO TAG ITEMS AND EQUIPMENT TO BE SAVED PRIOR TO DEMOLITION. CONTRACTOR TO REMOVE AND RETURN TO OWNER ANY TAGGED ITEM OR EQUIPMENT. SEE SPECIFICATION SECTION 024116 FOR ADDITIONAL BUILDING DEMOLITION REQUIREMENTS.
4. THE EXISTING LOWER WELLFIELD PUMPING STATION BUILDING AND FOUNDATION TO BE DEMOLISHED TO ELEVATION 241.2 FT. EXCAVATION LIMITS FOR THE NEW POND PUMPING STATION BUILDING TO APPROXIMATE MIN ELEVATION 241.2 FT. OWNER TO TAG ITEMS AND EQUIPMENT TO BE SAVED PRIOR TO DEMOLITION. CONTRACTOR TO REMOVE AND RETURN TO OWNER ANY TAGGED ITEM OR EQUIPMENT. SEE DETAIL B ON SHEET C-28 AND SPECIFICATIONS SECTION 024116 FOR ADDITIONAL BUILDING DEMOLITION REQUIREMENTS.
5. THE EXISTING CAISSON WELL TO BE DECOMMISSIONED AND ABANDONED IN PLACE. THE CONE OF THE EXISTING CAISSON WELL TO BE DEMOLISHED TO AT LEAST 2 FEET BELOW FINISH GRADE. SEE DETAIL B ON SHEET C-28 AND SECTION 019416, APPENDED TO THE SPECIFICATIONS, FOR MORE DECOMMISSIONING AND ABANDONMENT REQUIREMENTS OF THE EXISTING CAISSON WELL.
6. HAZARDOUS BUILDING MATERIALS WERE FOUND IN SAMPLES TAKEN FROM SELECT LOCATIONS IN EXISTING BUILDINGS. PRIOR TO COMMENCING WITH ANY MODIFICATIONS OR DEMOLITION WORK, REFER TO SPECIFICATIONS FOR KNOWN LOCATIONS OF HAZARDOUS BUILDING MATERIALS AND EQUIPMENT. PROPOSED ABATEMENT AND DISTURBANCE WORK. REQUIREMENTS FOR ADDITIONAL SAMPLING AND TESTING TO BE PERFORMED AS PART OF THE WORK, MONITORING REQUIREMENTS, AND WASTE HANDLING AND DISPOSAL REQUIREMENTS.
7. SILT FENCING SHALL BE INSTALLED ON THE TOE OF ALL PROPOSED NEW SLOPES. SILT FENCE SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MONITORED DURING CONSTRUCTION, AND REMOVED ONLY ONCE SLOPE HAS BEEN STABILIZED.



REV. NO.	DATE	DRWN	CHKD	REMARKS

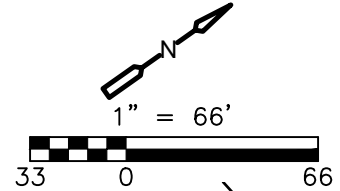
DESIGNED BY: G. HOWARD
 DRAWN BY: J. BRONENKANT
 SHEET CHK'D BY: G. HOWARD
 CROSS CHK'D BY: K. WAGNER
 APPROVED BY: K. WAGNER
 DATE: JANUARY 2024



CITY OF NEW BRITAIN, CONNECTICUT
 WHITE BRIDGE WATERWORKS FACILITIES
 UPPER AND LOWER WELLFIELDS
 AND POND PUMPING STATION

POND PUMPING STATIONS
 DEMOLITION AND REMOVALS PLAN

PROJECT NO. 10739-264571
 FILE NAME: C007STPL.DWG
 SHEET NO. C-7

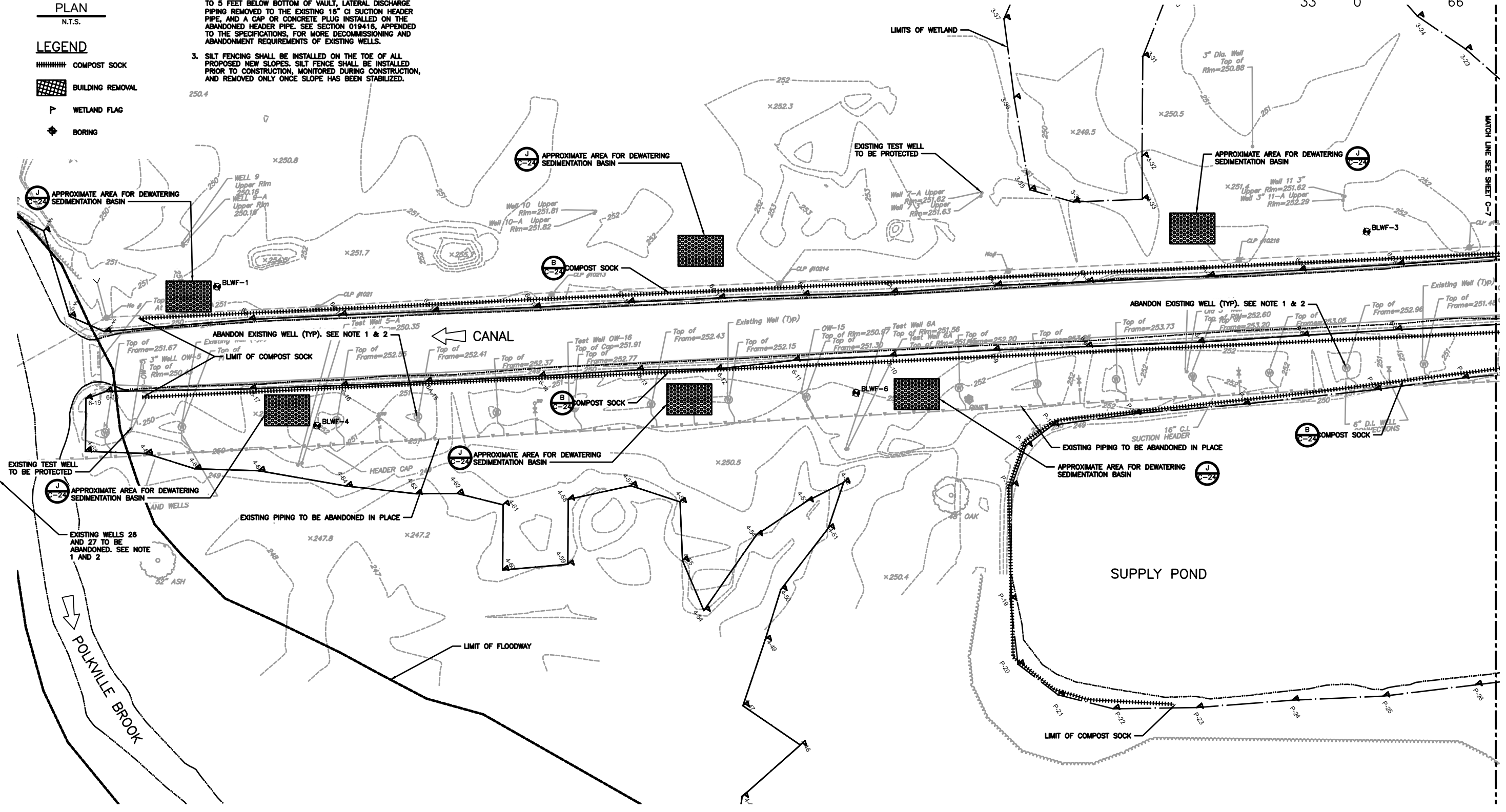


- NOTES:
- EXISTING WELLS TO HAVE THE WELL HEAD REMOVED TO 5 FEET BELOW FINISHED GRADE, LATERAL DISCHARGE PIPING REMOVED TO THE EXISTING 16" CI SUCTION HEADER PIPE, AND A CAP OR CONCRETE PLUG INSTALLED ON THE ABANDONED HEADER PIPE. SEE SECTION 019416, APPENDED TO THE SPECIFICATIONS, FOR MORE DECOMMISSIONING AND ABANDONMENT REQUIREMENTS OF EXISTING WELLS.
 - EXISTING WELLS WITH WELL HEAD LOCATED IN A VAULT TO HAVE VAULT DEMOLISHED AND REMOVED, WELL HEAD REMOVED TO 5 FEET BELOW BOTTOM OF VAULT, LATERAL DISCHARGE PIPING REMOVED TO THE EXISTING 16" CI SUCTION HEADER PIPE, AND A CAP OR CONCRETE PLUG INSTALLED ON THE ABANDONED HEADER PIPE. SEE SECTION 019416, APPENDED TO THE SPECIFICATIONS, FOR MORE DECOMMISSIONING AND ABANDONMENT REQUIREMENTS OF EXISTING WELLS.
 - SILT FENCING SHALL BE INSTALLED ON THE TOE OF ALL PROPOSED NEW SLOPES. SILT FENCE SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MONITORED DURING CONSTRUCTION, AND REMOVED ONLY ONCE SLOPE HAS BEEN STABILIZED.

PLAN
N.T.S.

LEGEND

- HHHHHHH COMPOST SOCK
- [Hatched Box] BUILDING REMOVAL
- P WETLAND FLAG
- [Circle with X] BORING



XREFS: [CDMS_2436_CWP000ST_Floodway_Floodplain_AWZ001FS - 2D Process Export, CEP000ST, XSVPL000, BORING LOCATIONS, 2022-17] Images: [Base Image]
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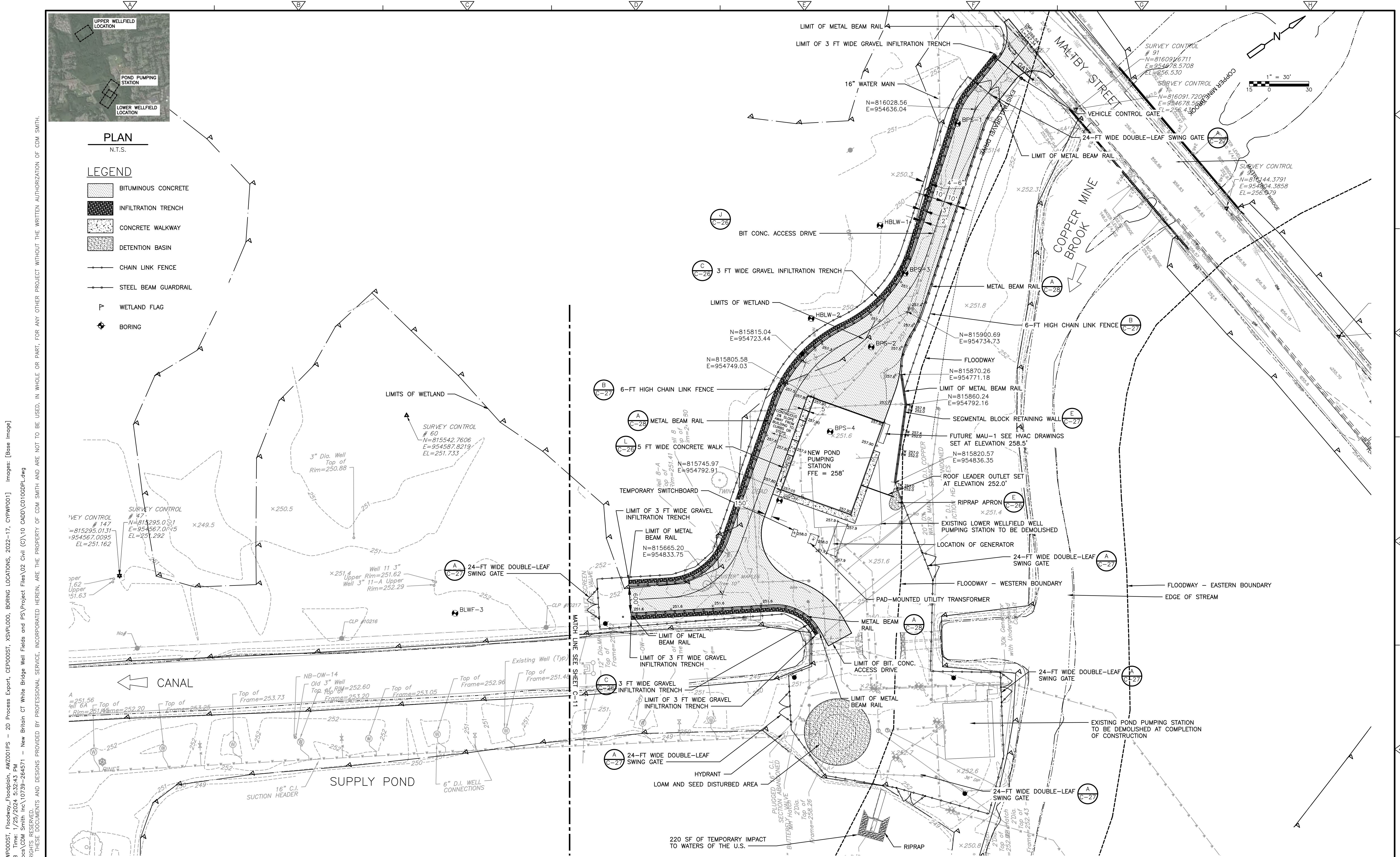
DESIGNED BY: G. HOWARD
 DRAWN BY: J. BRONENKANT
 SHEET CHK'D BY: G. HOWARD
 CROSS CHK'D BY: K. WAGNER
 APPROVED BY: K. WAGNER
 DATE: JANUARY 2024



CITY OF NEW BRITAIN, CONNECTICUT
 WHITE BRIDGE WATERWORKS FACILITIES
 UPPER AND LOWER WELLFIELDS
 AND POND PUMPING STATION

LOWER WELLFIELD
 DEMOLITION AND REMOVALS PLAN
 SHEET NO. C-8

PROJECT NO. 10739-264571
 FILE NAME: C008GDP.LDW
 SHEET NO. C-8



PLAN
N.T.S.

LEGEND

- BITUMINOUS CONCRETE
- INFILTRATION TRENCH
- CONCRETE WALKWAY
- DETENTION BASIN
- CHAIN LINK FENCE
- STEEL BEAM GUARDRAIL
- WETLAND FLAG
- BORING

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 SHEET CHK'D BY: G. HOWARD
 CROSS CHK'D BY: K. WAGNER
 APPROVED BY: K. WAGNER
 DATE: JANUARY 2024

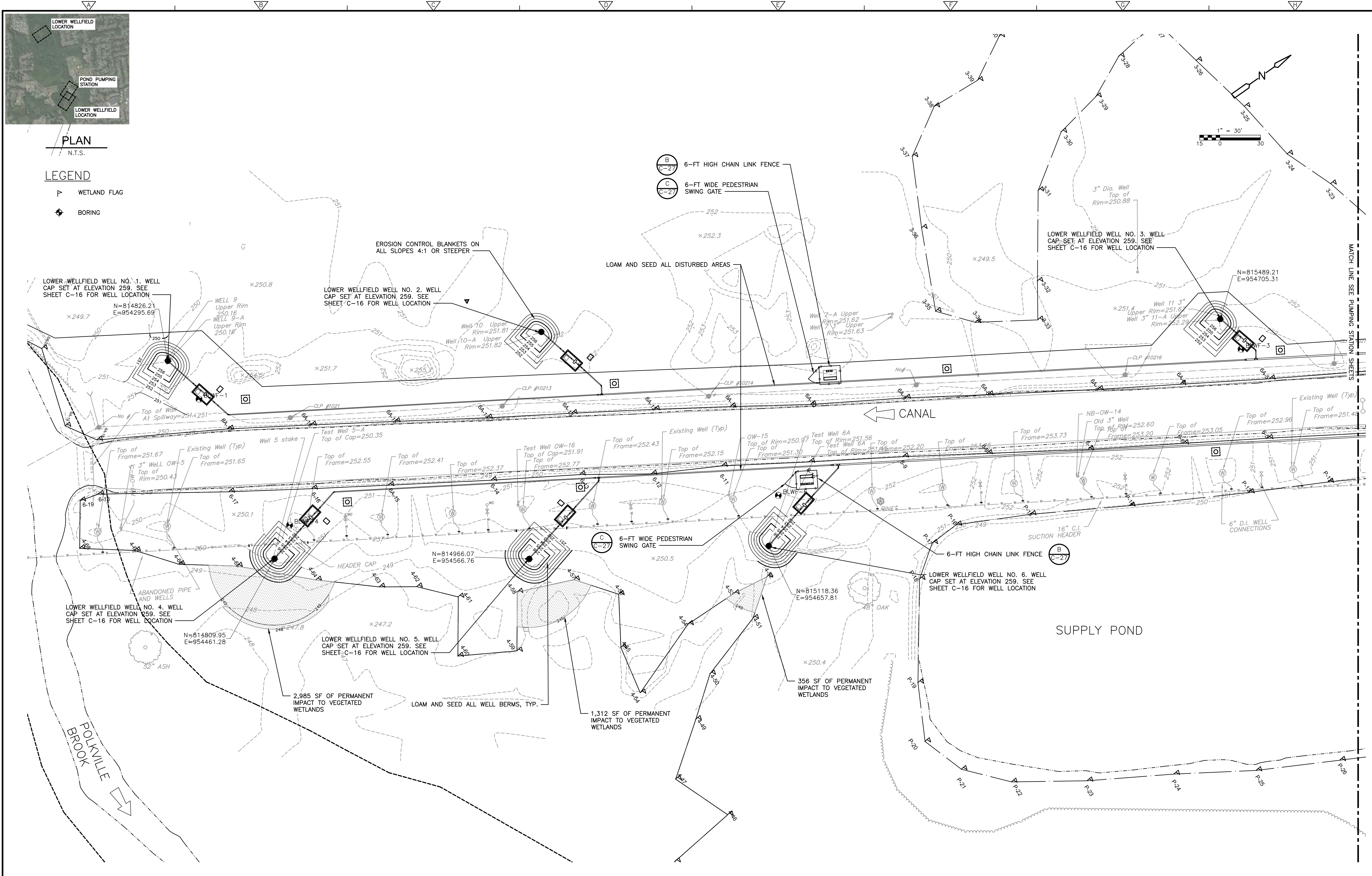


CITY OF NEW BRITAIN, CONNECTICUT
WHITE BRIDGE WATERWORKS FACILITIES
UPPER AND LOWER WELLFIELDS
AND POND PUMPING STATION

POND PUMPING STATION
LAYOUT AND MATERIALS PLAN

PROJECT NO. 10739-264571
 FILE NAME: C010GDP.LDW
 SHEET NO.
C-10

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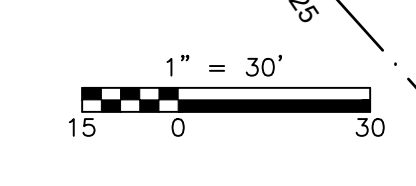


PLAN
N.T.S.

LEGEND

- WETLAND FLAG
- BORING

B
C-27 6-FT HIGH CHAIN LINK FENCE
C
C-27 6-FT WIDE PEDESTRIAN SWING GATE



REV. NO.	DATE	DRWN	CHKD	REMARKS

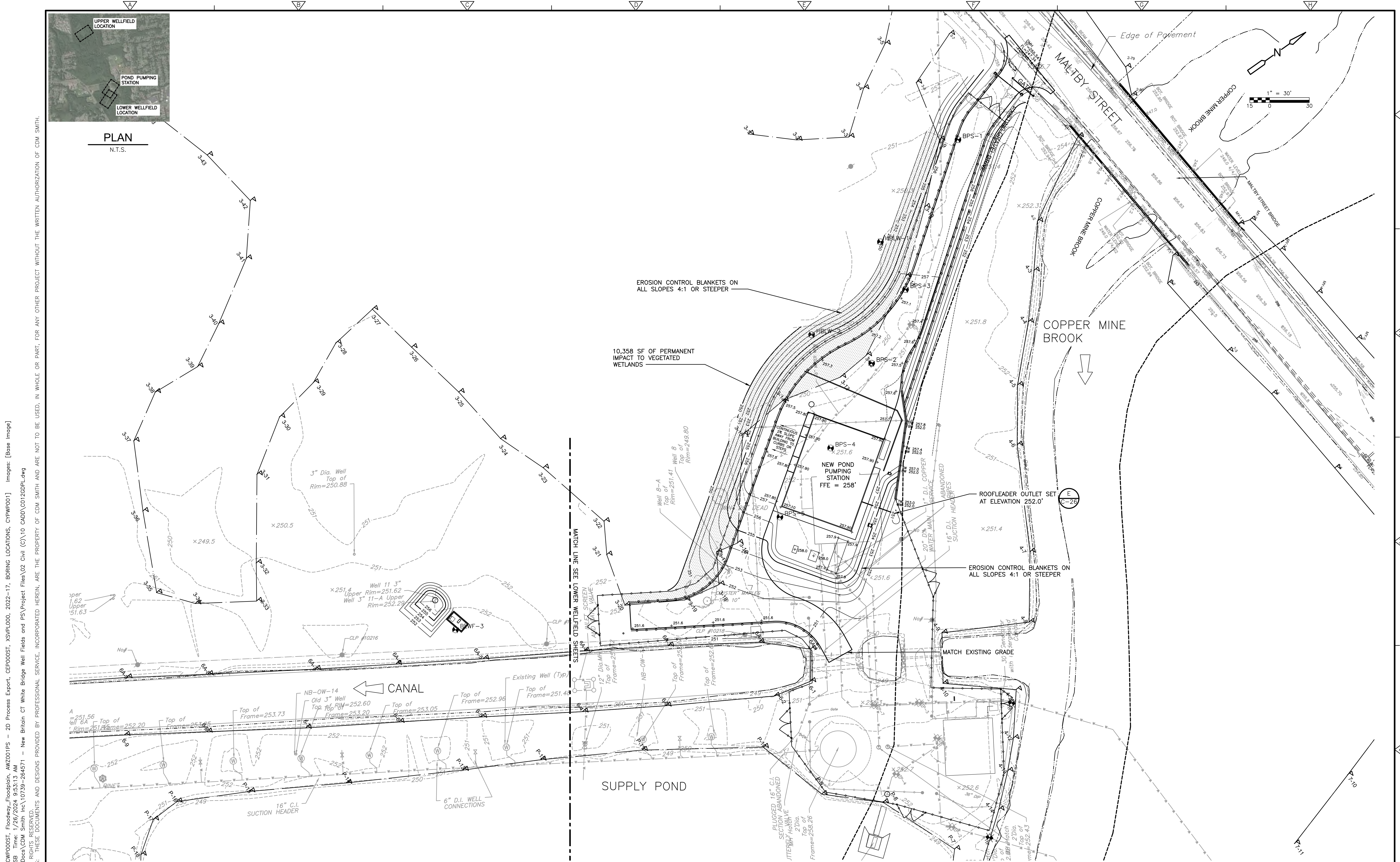
DESIGNED BY: G. HOWARD
 DRAWN BY: J. BRONENKANT
 SHEET CHK'D BY: G. HOWARD
 CROSS CHK'D BY: K. WAGNER
 APPROVED BY: K. WAGNER
 DATE: JANUARY 2024



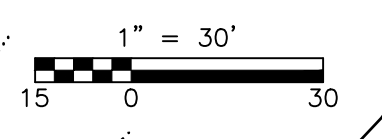
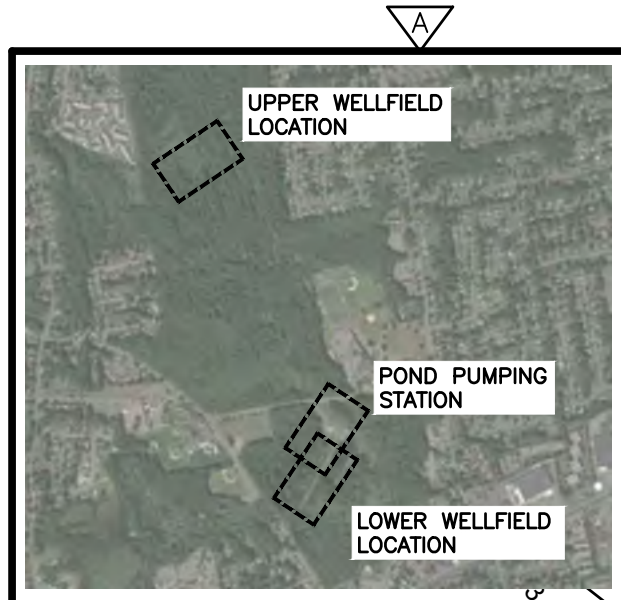
CITY OF NEW BRITAIN, CONNECTICUT
WHITE BRIDGE WATERWORKS FACILITIES
UPPER AND LOWER WELLFIELDS
AND POND PUMPING STATION

LOWER WELLFIELD
LAYOUT, MATERIALS, AND GRADING PLAN

PROJECT NO. 10739-264571
 FILE NAME: C011GDPL.DWG
 SHEET NO.
C-11



PLAN
N.T.S.



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 DRAWN BY: J. BRONENKANT
 SHEET CHK'D BY: K. GERLACH
 CROSS CHK'D BY: K. WAGNER
 APPROVED BY: K. WAGNER
 DATE: JANUARY 2024



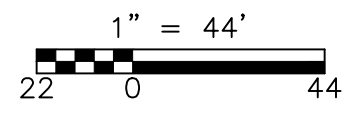
CITY OF NEW BRITAIN, CONNECTICUT
WHITE BRIDGE WATERWORKS FACILITIES
UPPER AND LOWER WELLFIELDS
AND POND PUMPING STATION

POND PUMPING STATION
GRADING AND DRAINAGE PLAN

PROJECT NO. 10739-264571
 FILE NAME: C012GDPL.DWG
 SHEET NO.
C-12

NOTES:

1. PROVIDE TEMPORARY CONNECTION TO 16-INCH PIPE FOR USE DURING PRELIMINARY WELL PUMP TESTING. SEE SPECIFICATION SECTION 017300 FOR CONSTRUCTION SEQUENCING DETAILS AND REQUIREMENTS.
2. REFER TO SPECIFICATION APPENDICES FOR ADDITIONAL TEST PIT AND BORING LOG INFORMATION.
3. CONNECTION OF EXISTING WELL DISCHARGE PIPES TO EXISTING SUCTION HEADER PIPE TO BE CAPPED OR PLUGGED DURING ABANDONMENT AND DECOMMISSIONING OF EXISTING WELLS. SEE SHEET C-7.
4. ALL PIPING TO BE RESTRAINED. SEE SPECIFICATION 330519 FOR DETAILS AND REQUIREMENTS.



730 SF OF TEMPORARY IMPACT TO WATERS OF THE U.S.

220 SF OF PERMANENT IMPACT TO WATERS OF THE U.S.

1,197 SF OF TEMPORARY IMPACT TO WATERS OF THE U.S.

RESOURCE IMPACTS TABLE	
TEMPORARY IMPACT WETLAND	1,927 S.F.

PLAN
1" = 44'

DESIGNED BY: K. GERLACH
 DRAWN BY: S. ENGEL
 SHEET CHK'D BY: K. WAGNER
 CROSS CHK'D BY: K. GERLACH
 APPROVED BY: K. WAGNER
 DATE: JANUARY 2024



CITY OF NEW BRITAIN, CONNECTICUT
 WHITE BRIDGE WATERWORKS FACILITIES
 UPPER AND LOWER WELLFIELDS
 AND POND PUMPING STATION

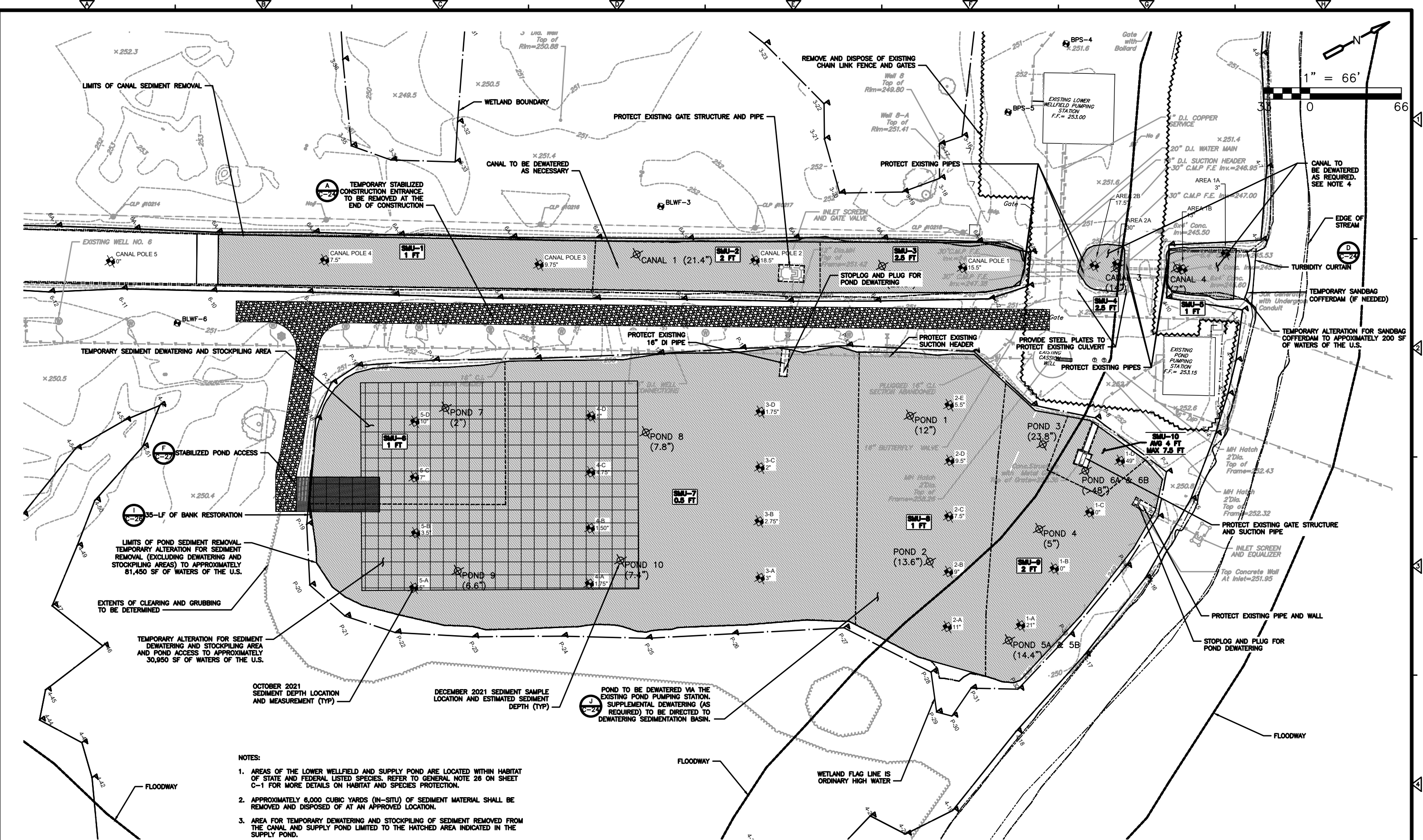
POND PUMPING STATION
 YARD PIPING PLAN

PROJECT NO. 10739-264571
 FILE NAME: C017YPL.DWG
 SHEET NO.

C-17

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- NOTES:**
- AREAS OF THE LOWER WELLFIELD AND SUPPLY POND ARE LOCATED WITHIN HABITAT OF STATE AND FEDERAL LISTED SPECIES. REFER TO GENERAL NOTE 26 ON SHEET C-1 FOR MORE DETAILS ON HABITAT AND SPECIES PROTECTION.
 - APPROXIMATELY 6,000 CUBIC YARDS (IN-SITU) OF SEDIMENT MATERIAL SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED LOCATION.
 - AREA FOR TEMPORARY DEWATERING AND STOCKPILING OF SEDIMENT REMOVED FROM THE CANAL AND SUPPLY POND LIMITED TO THE HATCHED AREA INDICATED IN THE SUPPLY POND.
 - STABILIZED CONSTRUCTION ENTRANCES SHALL BE REMOVED UPON COMPLETION OF PROJECT. DISTURBED AREAS TO BE LOAMED AND SEEDED.

PLAN
 1" = 66'

REV. NO.	DATE	DRWN	CHKD	REMARKS

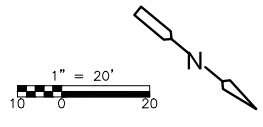
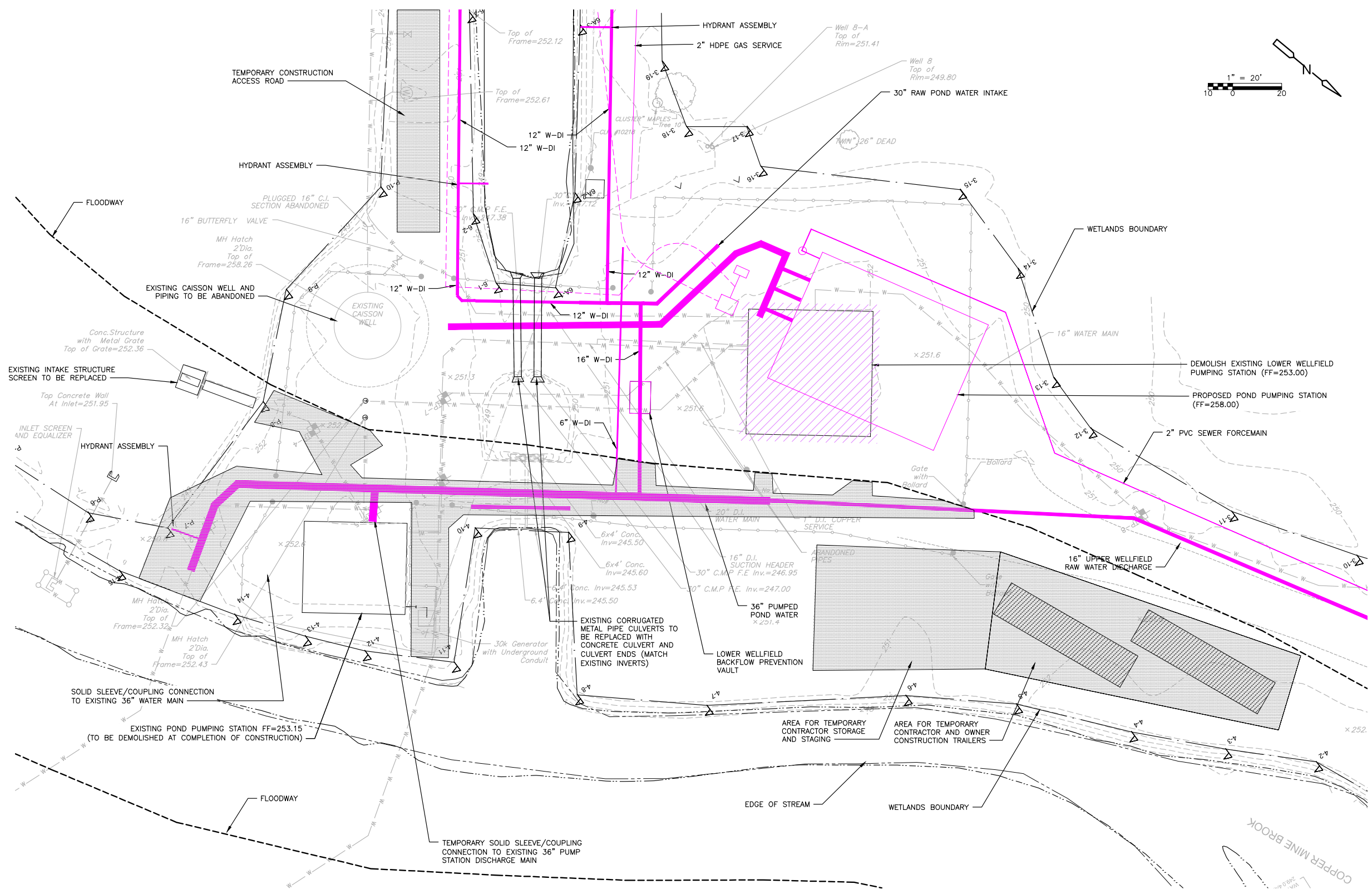
DESIGNED BY: T. BURKE
 DRAWN BY: S. ENGEL
 SHEET CHK'D BY: K. GERLACH
 CROSS CHK'D BY: T. BURKE
 APPROVED BY: K. WAGNER
 DATE: JANUARY 2024



CITY OF NEW BRITAIN, CONNECTICUT
 WHITE BRIDGE WATERWORKS FACILITIES
 UPPER AND LOWER WELLFIELDS
 AND POND PUMPING STATION

SUPPLY POND AND CANAL
 SEDIMENT REMOVAL PLAN

PROJECT NO. 10739-264571
 FILE NAME: CO23SDRM.DWG
 SHEET NO. C-23



PLAN
1" = 20'

NOTE:
1. SEE SPECIFICATION SECTION 017300 FOR DETAILS ON CONSTRUCTION SEQUENCING.

NOT TO SCALE

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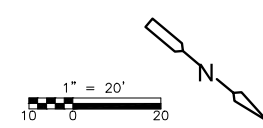
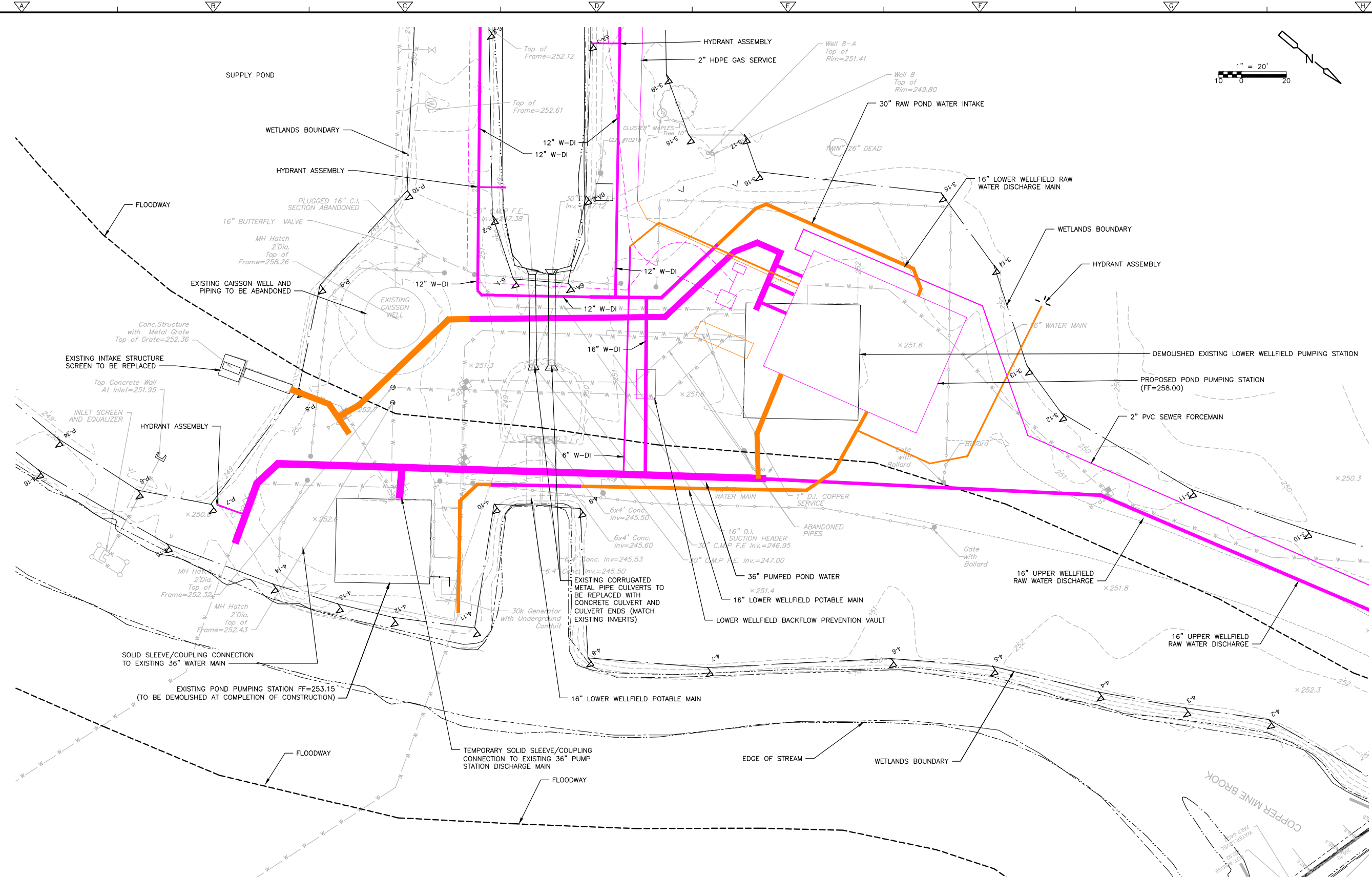
DESIGNED BY: K. GERLACH
 DRAWN BY: S. ENGEL
 SHEET CHK'D BY: K. WAGNER
 CROSS CHK'D BY: K. GERLACH
 APPROVED BY: _____
 DATE: FEBRUARY 2023



CITY OF NEW BRITAIN, CONNECTICUT
WHITE BRIDGE WATERWORKS FACILITIES
UPPER AND LOWER WELLFIELDS
AND POND PUMPING STATION

POND PUMPING STATION YARD PIPING
CONSTRUCTION SEQUENCING I

PROJECT NO. 10739-264571
 FILE NAME: C020PSCS.DWG
 SHEET NO.
C-20



PLAN
1" = 20'

NOTE:
1. SEE SPECIFICATION SECTION 017300 FOR DETAILS ON CONSTRUCTION SEQUENCING.

NOT TO SCALE

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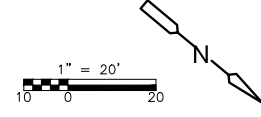
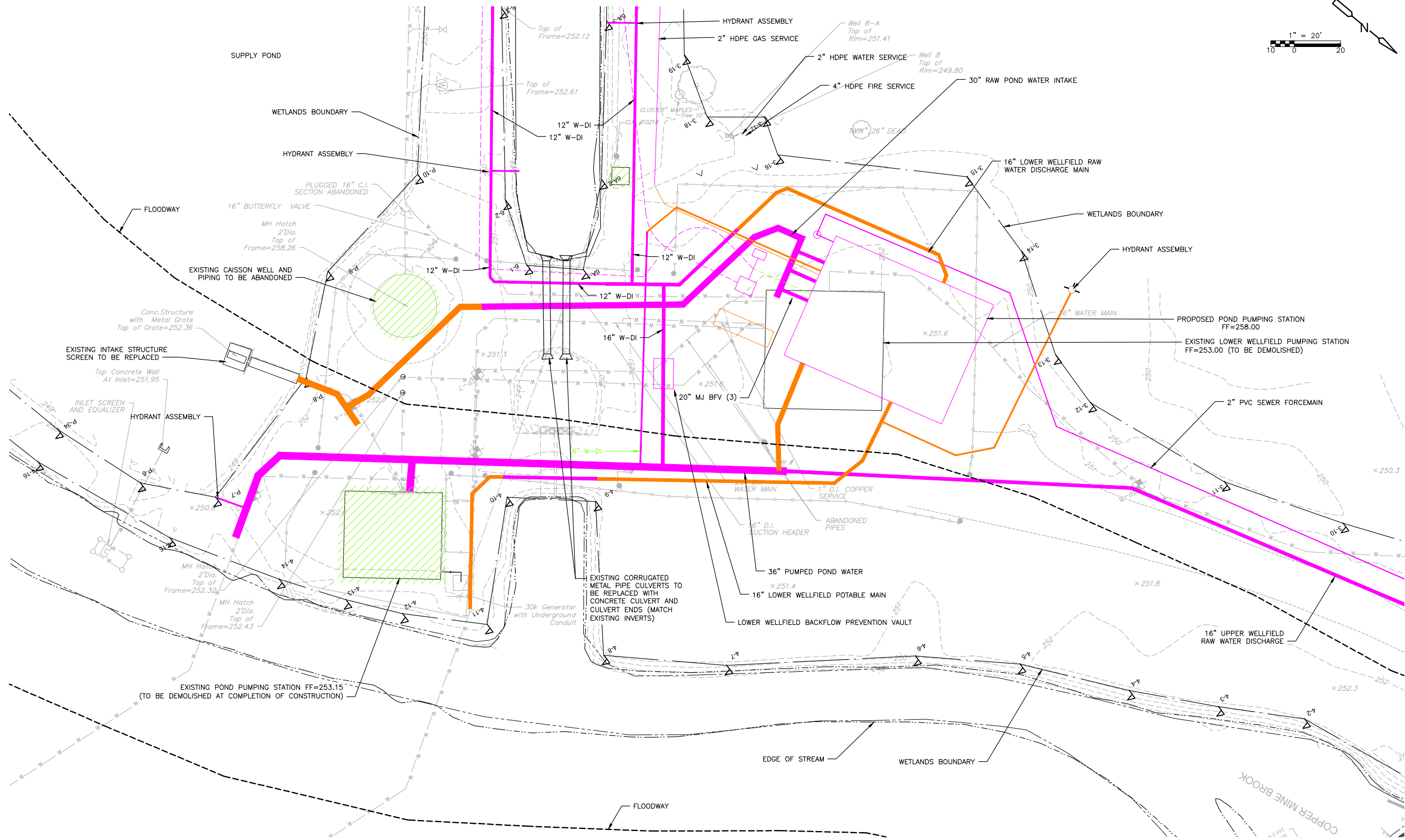
DESIGNED BY:	K. GERLACH
DRAWN BY:	S. ENGEL
SHEET CHK'D BY:	K. WAGNER
CROSS CHK'D BY:	K. GERLACH
APPROVED BY:	
DATE:	FEBRUARY 2023



CITY OF NEW BRITAIN, CONNECTICUT
WHITE BRIDGE WATERWORKS FACILITIES
UPPER AND LOWER WELLFIELDS
AND POND PUMPING STATION

POND PUMPING STATION YARD PIPING
CONSTRUCTION SEQUENCING II

PROJECT NO.	10739-264571
FILE NAME:	CO21PSCS.DWG
SHEET NO.	C-21



PLAN
1" = 20'

NOTE:
1. SEE SPECIFICATION SECTION 017300 FOR
DETAILS ON CONSTRUCTION SEQUENCING.

NOT TO SCALE

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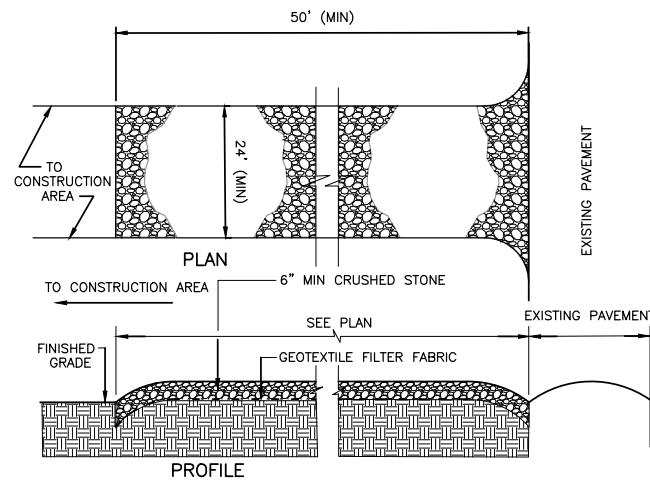
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 DRAWN BY: S. ENGEL
 SHEET CHK'D BY: K. WAGNER
 CROSS CHK'D BY: K. GERLACH
 APPROVED BY: [Signature]
 DATE: FEBRUARY 2023



CITY OF NEW BRITAIN, CONNECTICUT
**WHITE BRIDGE WATERWORKS FACILITIES
 UPPER AND LOWER WELLFIELDS
 AND POND PUMPING STATION**

**POND PUMPING STATION YARD PIPING
 CONSTRUCTION SEQUENCING III**

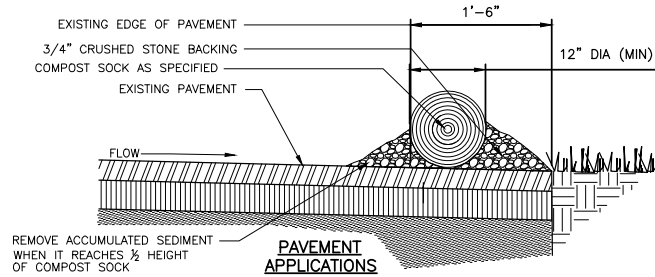
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 FILE NAME: CO22PSCS.DWG
 SHEET NO.
C-22



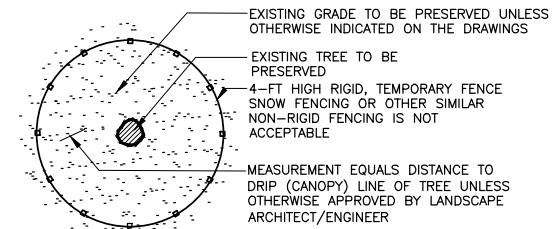
STABILIZED CONSTRUCTION ENTRANCE
DETAIL A
NOT TO SCALE

NOTES:

- 1.) PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND EXISTING PAVEMENT.
- 2.) LIMITS OF STABILIZED CONSTRUCTION ENTRANCE SHALL BE AS DIRECTED BY THE ENGINEER.
- 3.) THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDING STONE TO THE LENGTH OF THE ENTRANCE.
- 4.) REPAIR AND CLEANOUT MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO EXISTING PAVEMENT SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

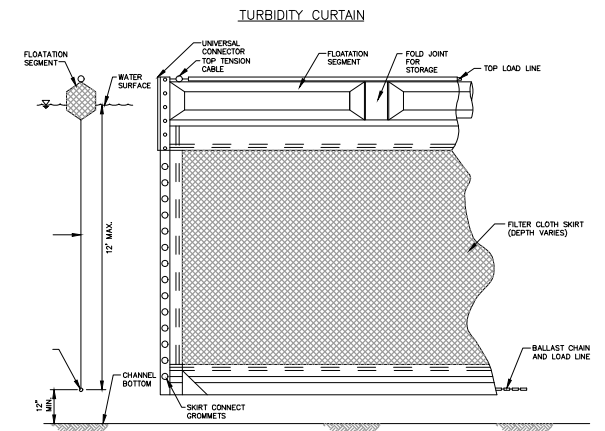


PAVEMENT APPLICATIONS
LANDSCAPE APPLICATIONS
DETAIL B
SCALE: NTS

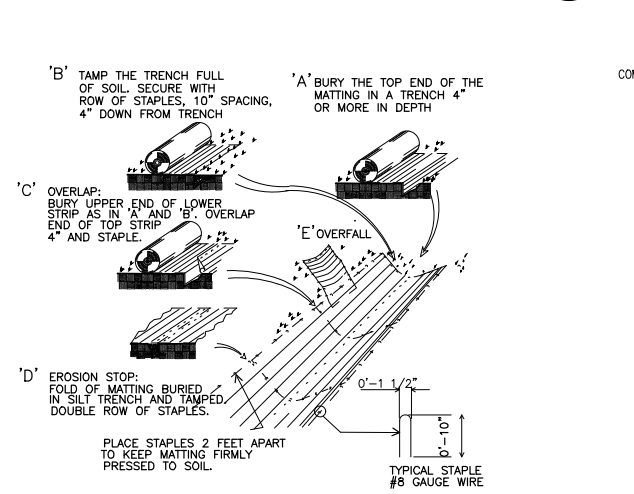
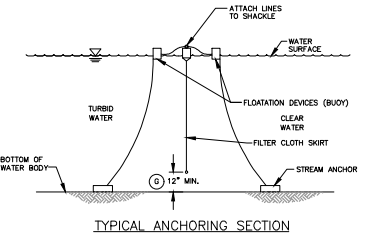


- NOTES:
1. FENCING SHALL BE INSTALLED AROUND PERIMETER OF ALL EXISTING TREES TO BE PRESERVED WITHIN THE LIMIT OF WORK.
 2. FENCING MAY BE REMOVED TEMPORARILY, ONLY AS REQUIRED TO PERFORM THE WORK SHOWN ON THE DRAWINGS.
 3. FENCING SHALL REMAIN IN PLACE & BE MAINTAINED THROUGHOUT CONSTRUCTION AND THEN REMOVED COMPLETELY.

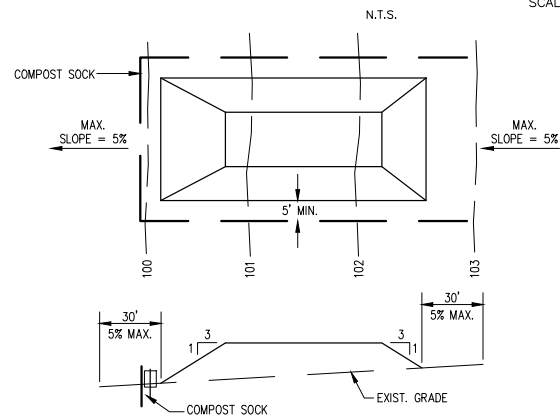
TREE PROTECTION
DETAIL C
NOT TO SCALE



TURBIDITY CURTAIN
DETAIL D
NOT TO SCALE

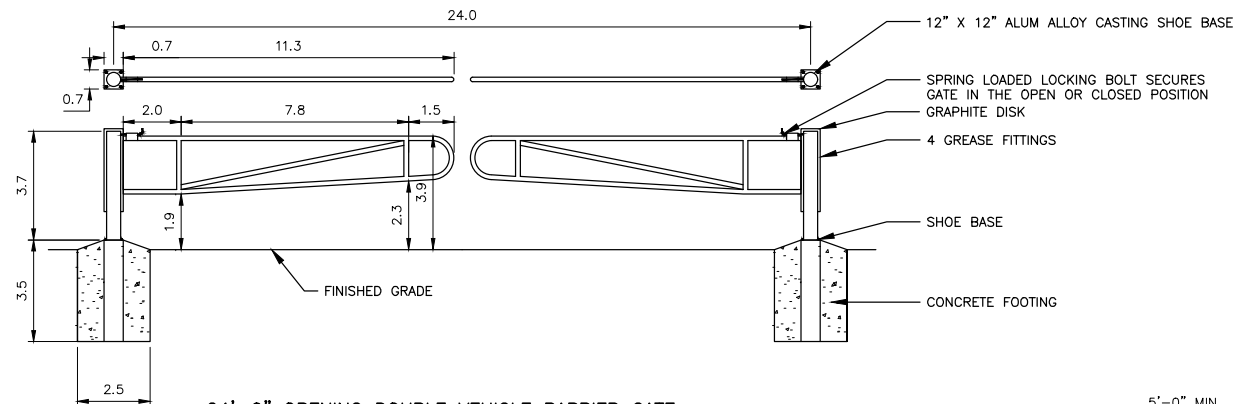


EROSION CONTROL BLANKET
DETAIL E
NOT TO SCALE

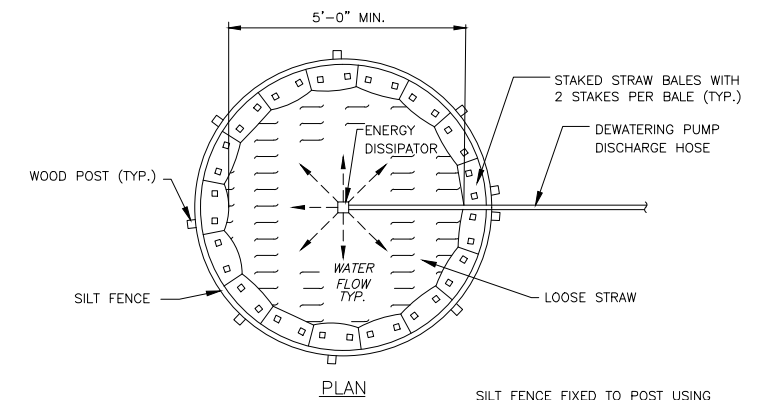


SOIL STOCKPILE
DETAIL F
NOT TO SCALE

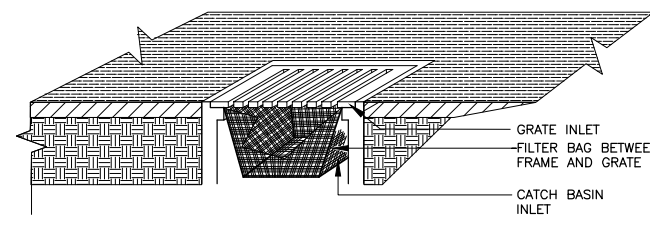
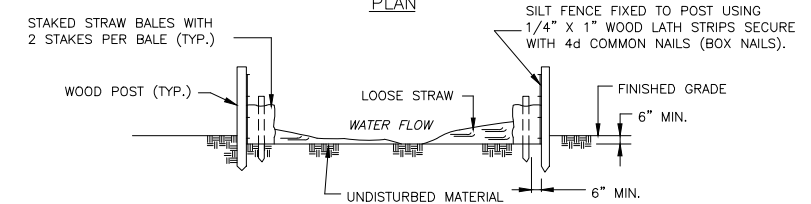
- NOTES:
1. PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
 2. ALL SIDE SLOPES SHALL BE 3 TO 1 OR FLATTER.
 3. STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQ.
 4. COMPOST SHALL BE INSTALLED AS DETAILED HEREON.



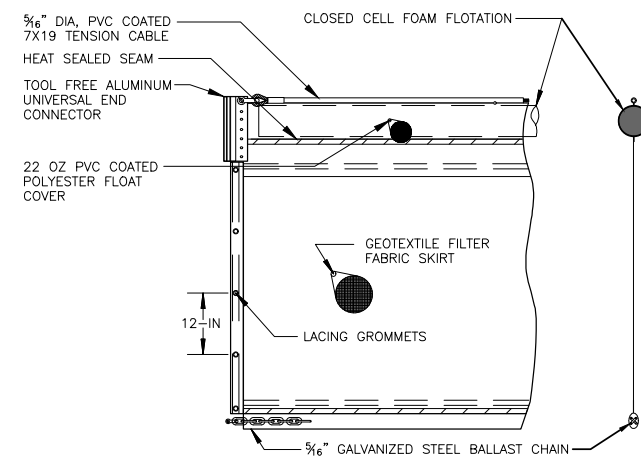
24'-0" OPENING DOUBLE VEHICLE BARRIER GATE
DETAIL G
NOT TO SCALE



DEWATERING SEDIMENTATION BASIN
DETAIL J
NOT TO SCALE



CATCH BASIN FILTER
DETAIL H
NOT TO SCALE



FLOATING TURBIDITY BARRIER
DETAIL I
NOT TO SCALE

DESIGNED BY: K. GERLACH
DRAWN BY: J. BRONENKANT
SHEET CHK'D BY: K. WAGNER
CROSS CHK'D BY: K. GERLACH
APPROVED BY: [Signature]
DATE: FEBRUARY 2023

CDM Smith
77 Hartland Street, Suite 200
East Hartford, CT 06108
Tel: (860) 529-7615

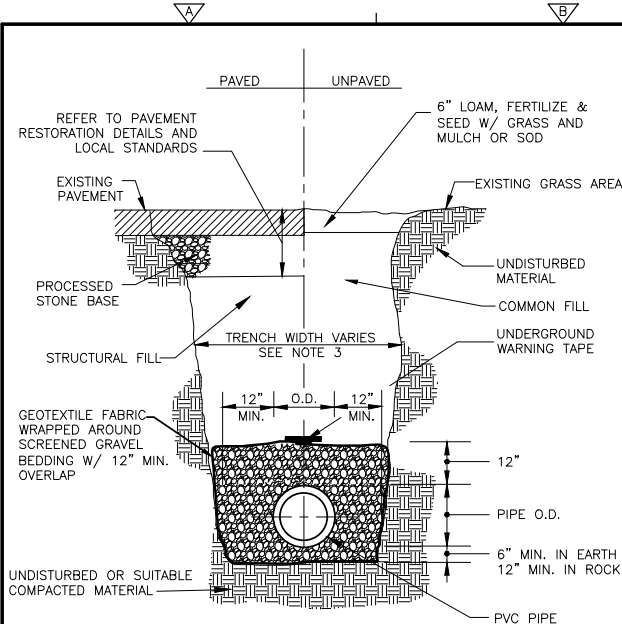
CITY OF NEW BRITAIN, CONNECTICUT
WHITE BRIDGE WATERWORKS FACILITIES
UPPER AND LOWER WELLFIELDS
AND POND PUMPING STATION

CIVIL DETAILS I

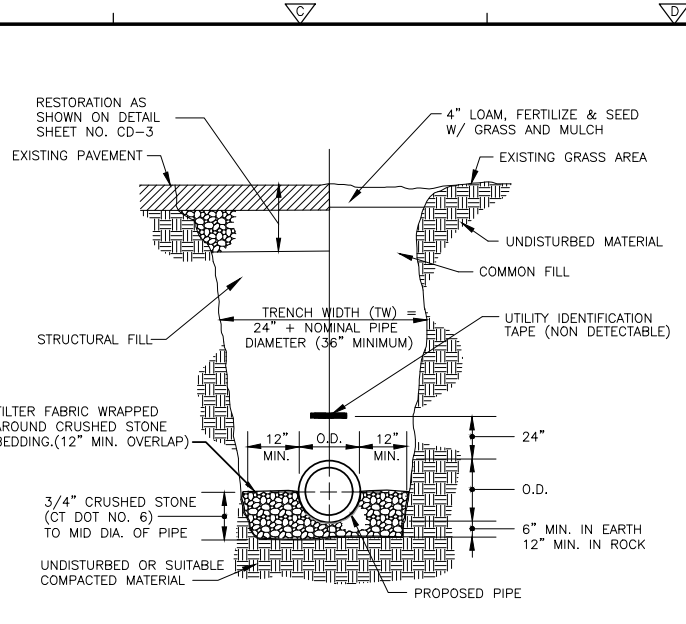
PROJECT NO. 10739-264571
FILE NAME: CDD01CSDT.DWG
SHEET NO.
C-24

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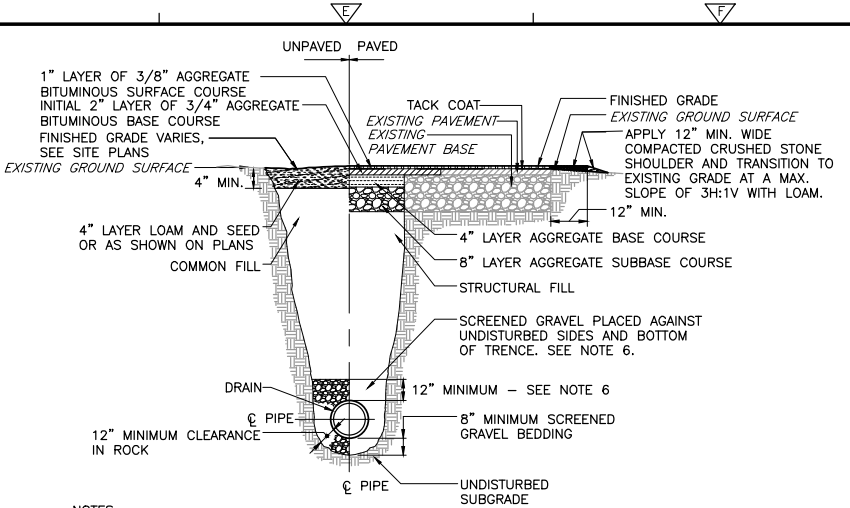
REV. NO.	DATE	DRWN	CHKD	REMARKS



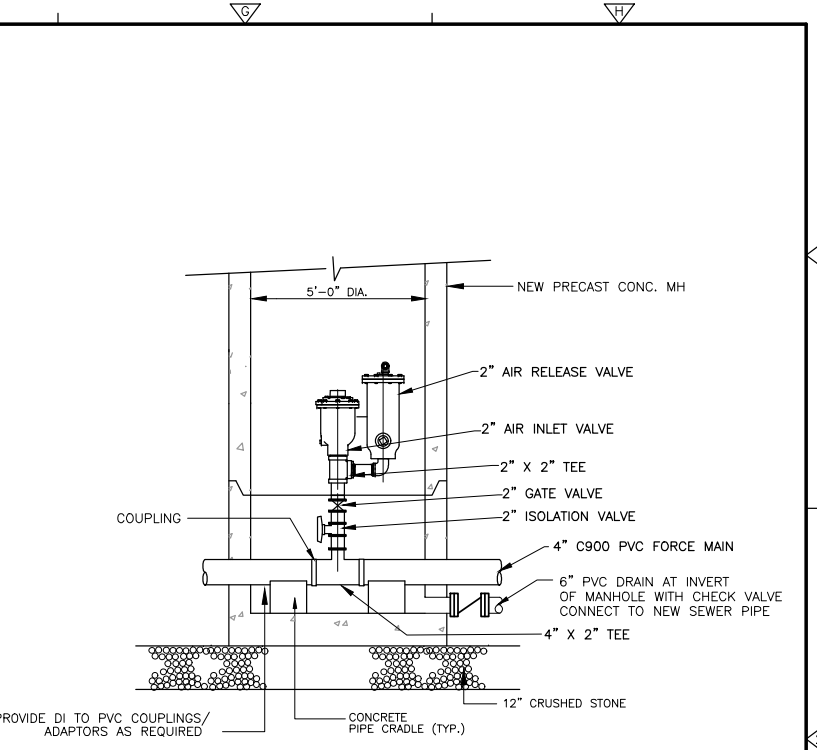
**PVC PIPE TRENCH
DETAIL A**
NOT TO SCALE



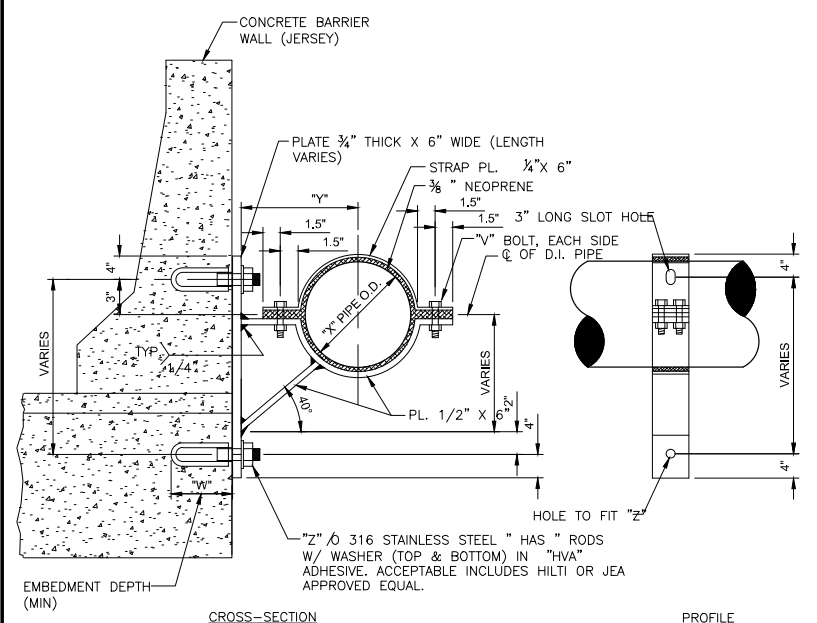
**DI PIPE TRENCH
DETAIL B**
NOT TO SCALE



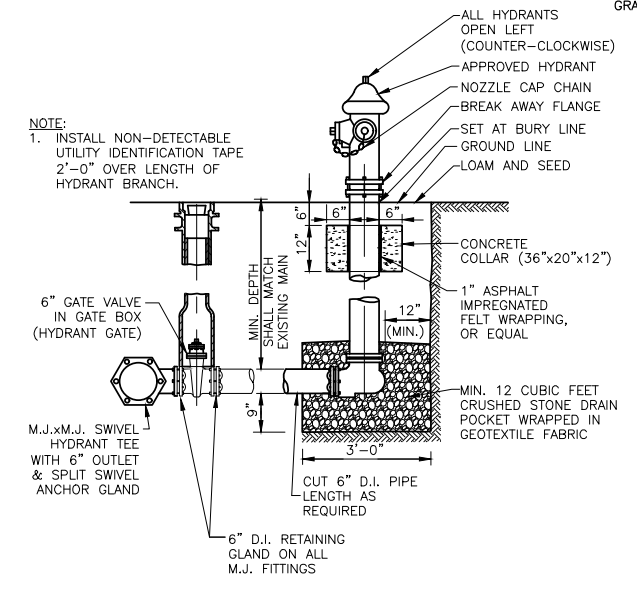
**TRENCHING AND REPAIRS
DETAIL C**
NTS



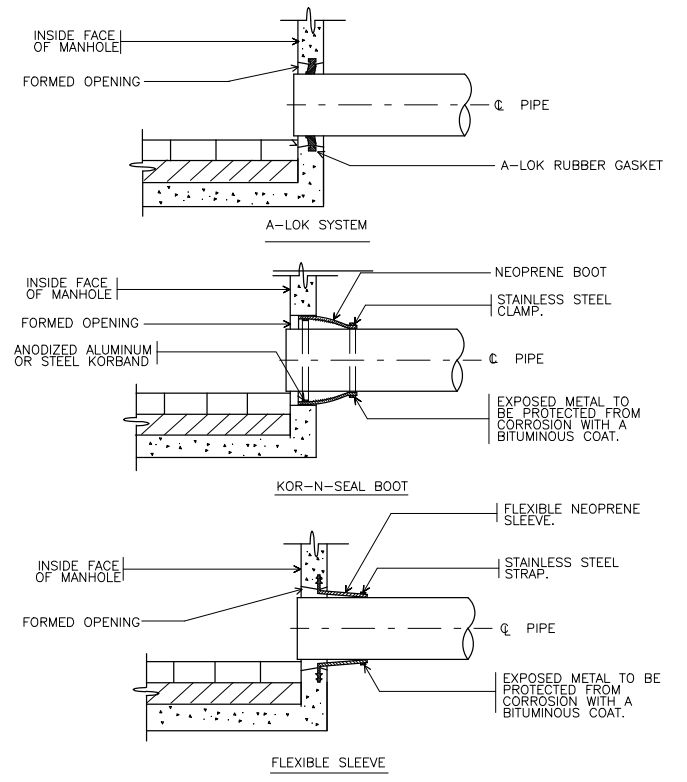
**AIR RELEASE/AIR INLET VALVE (VACUUM BREAKER) AND MANHOLE
DETAIL H**
SCALE: NTS



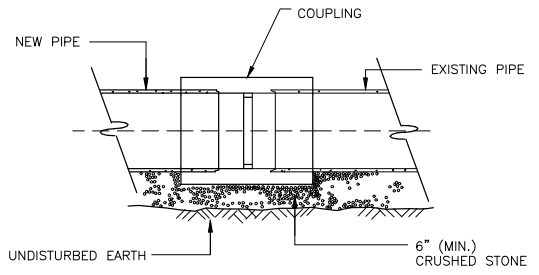
**SIDEWALL PIPE HANGER
DETAIL E**
NOT TO SCALE



**FIRE HYDRANT ASSEMBLY
DETAIL D**
NOT TO SCALE



**PIPE CONNECTION DETAILS
DETAIL G**
NOT TO SCALE



**COUPLING CONNECTION TO EXISTING PIPE
DETAIL F**
NOT TO SCALE

PIPE SIZE	4"	6"	8"	10"	12"	16"	20"	24"
X	4.80"	6.90"	9.05"	11.10"	13.20"	17.40"	21.60"	25.80"
Y	8"	9"	10"	12"	13"	15"	17"	19"
Z	3/4"	3/4"	3/4"	1"	1"	1"	1 1/4"	1 1/4"
W	6.625"	6.625"	6.625"	8.25"	8.25"	8.25"	12"	12"
V	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"

- NOTES:**
- ALL WELDS TO BE PERFORMED BY A CERTIFIED STRUCTURAL WELDER.
 - ALL SUPPORT BRACKET MEMBERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 - ALL NUTS, BOLTS, AND WASHERS SHALL BE 316 STAINLESS STEEL.
 - THE SPACING OF SIDEWALL PIPE SUPPORTS SHALL BE SPECIFICALLY DESIGNED BASED UPON MANY FACTS INCLUDING PIPE SIZE AND MATERIAL EMBEDMENT LIMITATIONS. UNLESS APPROVED OTHERWISE BY THE ENGINEER, IN NO CASE SHALL THE SPACING OF PIPE SUPPORTS EXCEED TWENTY (20) FEET ON-CENTER FOR PIPE SIZES TWELVE (12) INCH AND SMALLER AND TEN (10) FEET ON-CENTER FOR PIPE SIZES GREATER THAN TWELVE (12) INCHES.

- NOTES:**
- THE CONTRACTOR SHALL MAINTAIN INITIAL 2" LAYER OF 3/4" AGGREGATE BITUMINOUS BASE COURSE FOR 60-90 DAYS MINIMUM.
 - IF INITIAL PAVEMENT IS PLACED AFTER OCTOBER 1ST, THEN IT SHALL BE MAINTAINED UNTIL PAVEMENT OVERLAY IS PLACED.
 - PAVEMENT OVERLAY SHALL BE PLACED BETWEEN APRIL 15 AND NOVEMBER 15 OF EACH CALENDAR YEAR.
 - THE CONTRACTOR SHALL SAW CUT 12-INCHES OUTSIDE OF INITIAL TRENCH EXCAVATION. INITIAL PAVEMENT SHALL BE REMOVED AND DISPOSED OF.
 - INITIAL 2" LAYER OF 3/4" AGGREGATE BITUMINOUS BASE COURSE SHALL MATCH EXISTING ROADWAY GRADES.
 - FOR PIPES OTHER THAN PVC AND HDPE, SELECT COMMON FILL MAY BE USED FROM MID-DIAMETER OF PIPE TO 12" ABOVE TOP OF PIPE.
 - PROVIDE AT LEAST ONE IMPERVIOUS DAM IN GRAVEL BEDDING BETWEEN EACH MANHOLE OR EVERY 300 FEET, WHICHEVER IS LESS.
 - PRIOR TO INSTALLATION OF 1" LAYER OF 3/8" AGGREGATE BITUMINOUS SURFACE COURSE, SHIM EXISTING ROAD AS REQUIRED TO PROVIDE A SMOOTH FINISHED GRADE WITH NO PUDDLINGS.
 - IN LOCATIONS WHERE TRENCH PAVING MEETS EXISTING BITUMINOUS CONCRETE, MATCH FINISHED GRADE.

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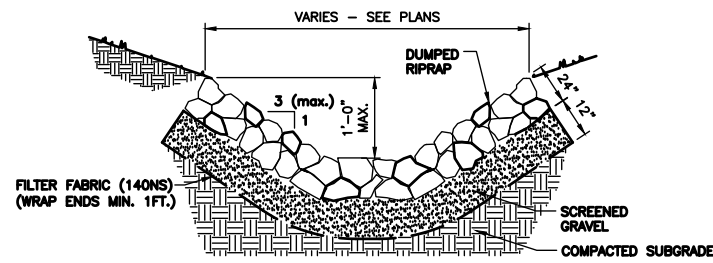
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. GERLACH
 DRAWN BY: J. BRONENKANT
 SHEET CHK'D BY: K. WAGNER
 CROSS CHK'D BY: K. GERLACH
 APPROVED BY: [Signature]
 DATE: FEBRUARY 2023

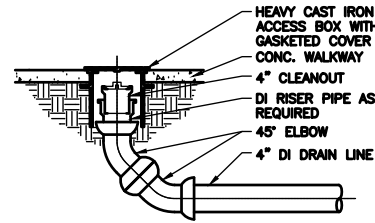


CITY OF NEW BRITAIN, CONNECTICUT
 WHITE BRIDGE WATERWORKS FACILITIES
 UPPER AND LOWER WELLFIELDS
 AND POND PUMPING STATION

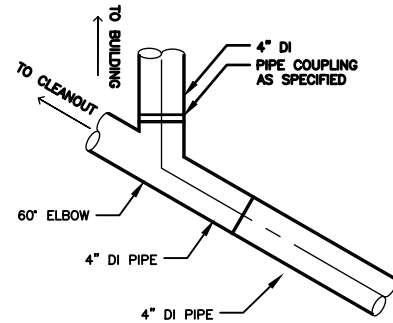
PROJECT NO. 10739-264571
 FILE NAME: CD002CSDT.DWG
 SHEET NO.
C-25



SECTION RIPRAP SWALE
DETAIL A
SCALE: NTS



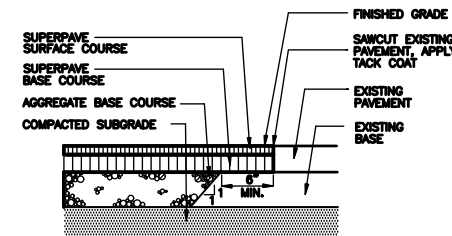
SECTION VIEW



PLAN VIEW

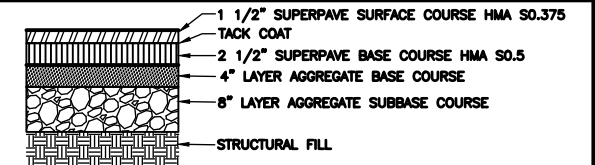
ROOF DRAIN CONNECTION WITH CLEANOUT

DETAIL D
NTS



PAVEMENT MATCH

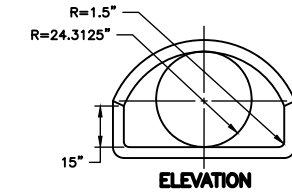
DETAIL F
NOT TO SCALE



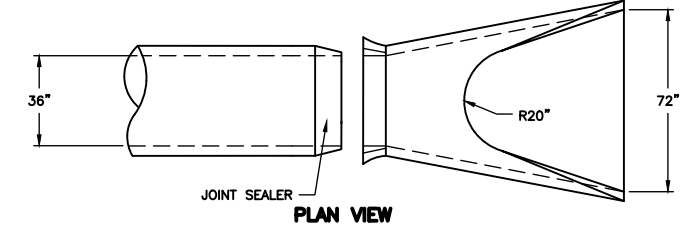
NOTES:
1. BASE COURSE SHALL EXTEND 3\"/>

BITUMINOUS CONCRETE PAVEMENT

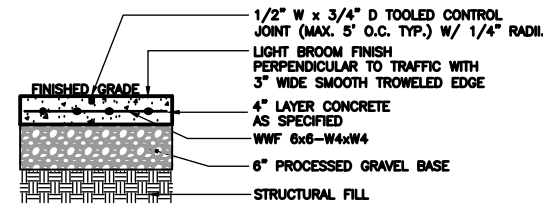
DETAIL J
NOT TO SCALE



ELEVATION

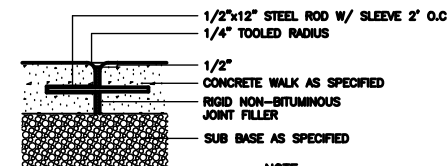


PLAN VIEW



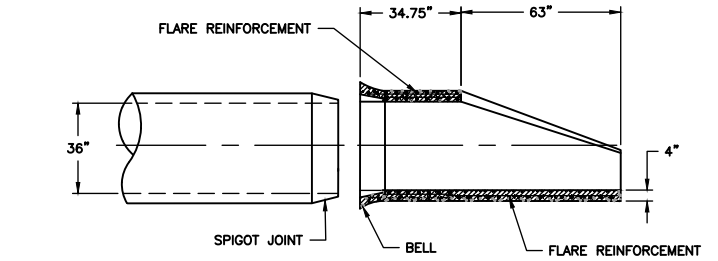
CONCRETE WALKWAY

DETAIL G
NOT TO SCALE



EXPANSION JOINT

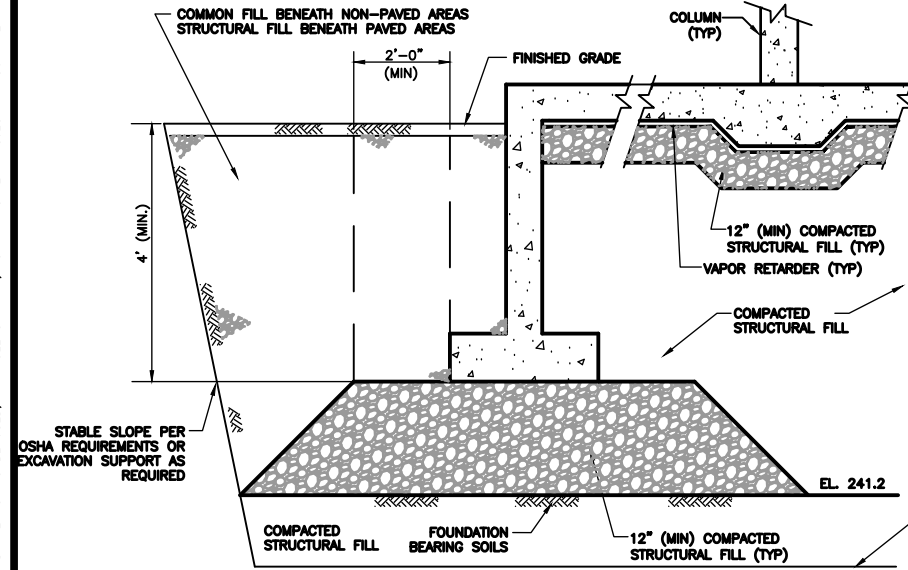
DETAIL H
NOT TO SCALE



SECTION VIEW

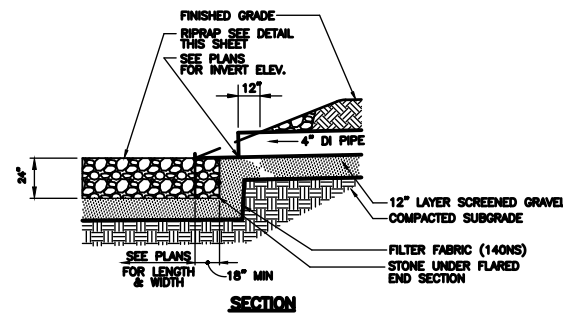
RCP CULVERT PIPE END

DETAIL K
NOT TO SCALE

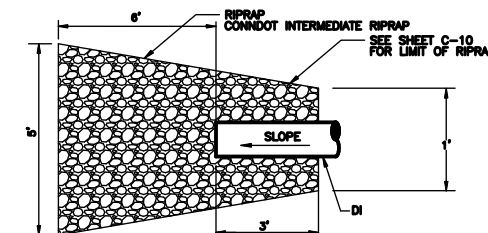


BACKFILL

DETAIL B
NTS



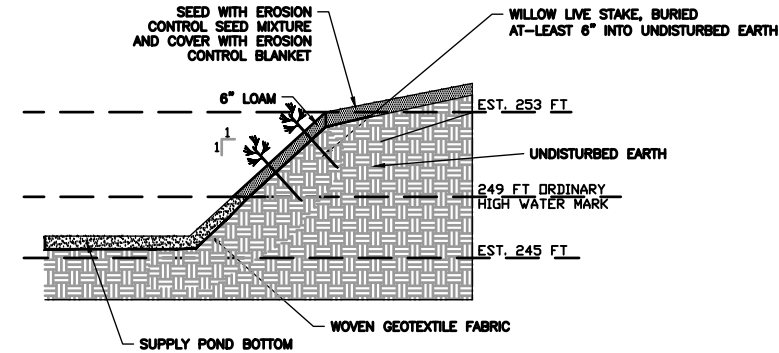
SECTION



PLAN

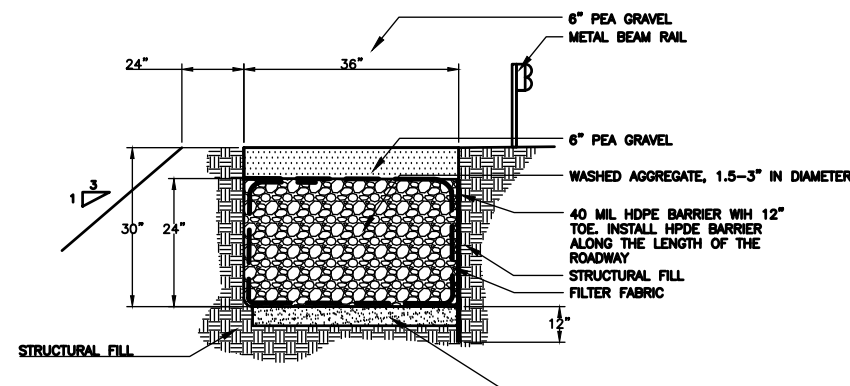
PIPE END SECTION & RIPRAP APRON

DETAIL E
NOT TO SCALE



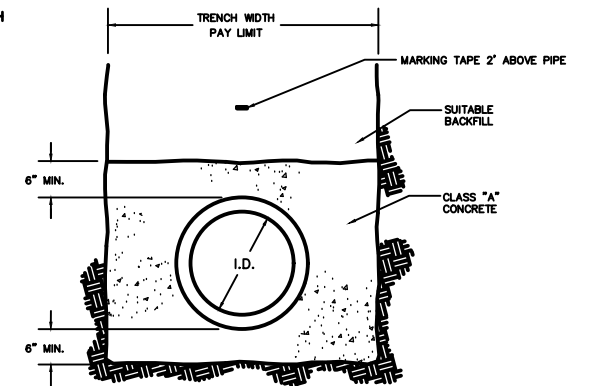
BANK RESTORATION

DETAIL I
NOT TO SCALE



GRAVEL INFILTRATION TRENCH

DETAIL C
NOT TO SCALE



CONCRETE ENCASMENT

DETAIL L
NOT TO SCALE

- NOTES:
1. THE SUITABILITY OF THE FOUNDATION SUB-GRADE TO BE VERIFIED BY CONTRACTOR'S GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE.
 2. SEE SPECIFICATION SECTION 312000 FOR SUBGRADE PREPARATION REQUIREMENTS AND COMPACTION REQUIREMENTS.
 3. STRUCTURES INCLUDE TANK, BUILDING, OR SHALLOW FOOTINGS. SEE SITE PLANS.

XREFS: [CDMS_2436_XSVPLO00_CWP0005T_Floodway_Floodplain_AWZ001FS - 2D Process Export] Images: []
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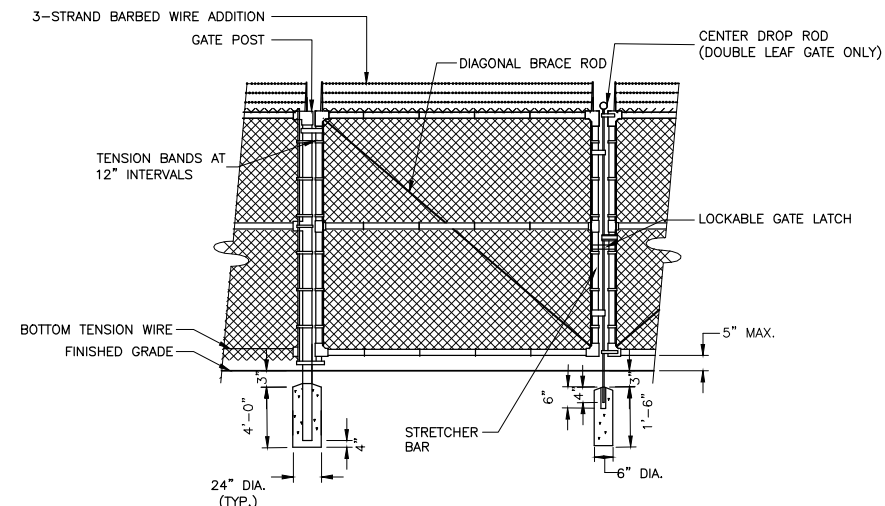
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DESIGNED BY: K. GERLACH
 DRAWN BY: J. BRONENKANT
 SHEET CHK'D BY: K. WAGNER
 CROSS CHK'D BY: K. GERLACH
 APPROVED BY: K. WAGNER
 DATE: JANUARY 2024

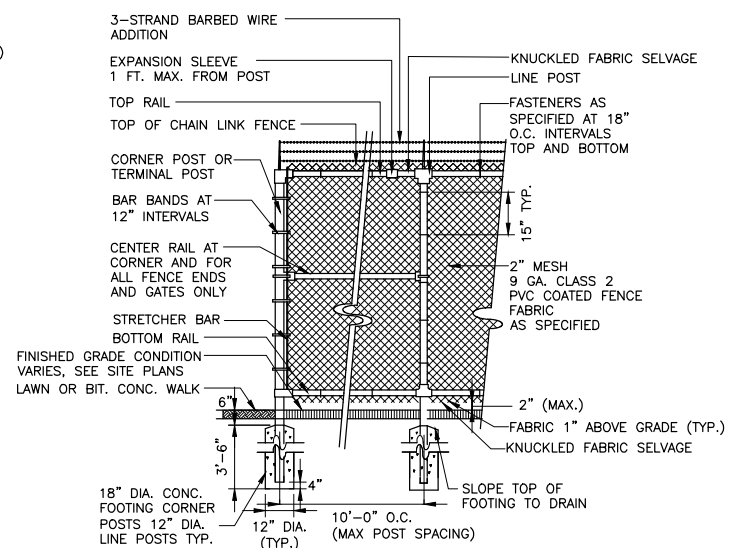


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 WHITE BRIDGE WATERWORKS FACILITIES
 UPPER AND LOWER WELLFIELDS
 AND POND PUMPING STATION

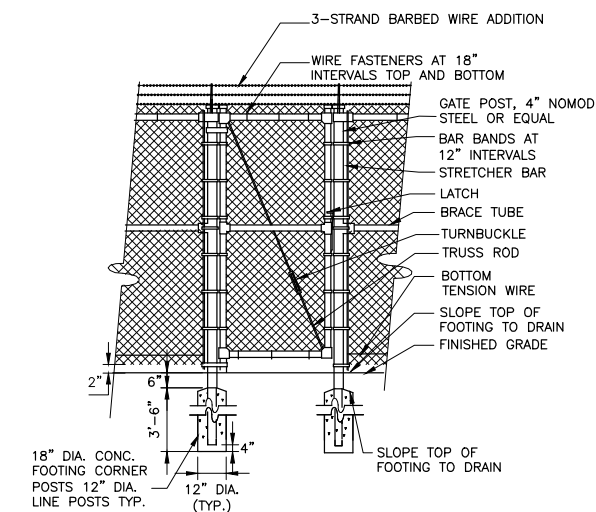
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 PROJECT NO. 10739-264571
 FILE NAME: CD003CSDT.DWG
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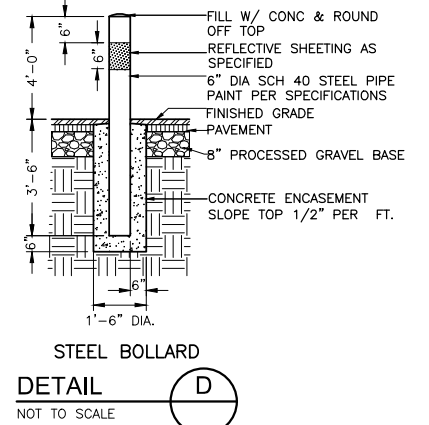
CHAIN LINK DOUBLE LEAF SWING GATE
DETAIL A
NOT TO SCALE



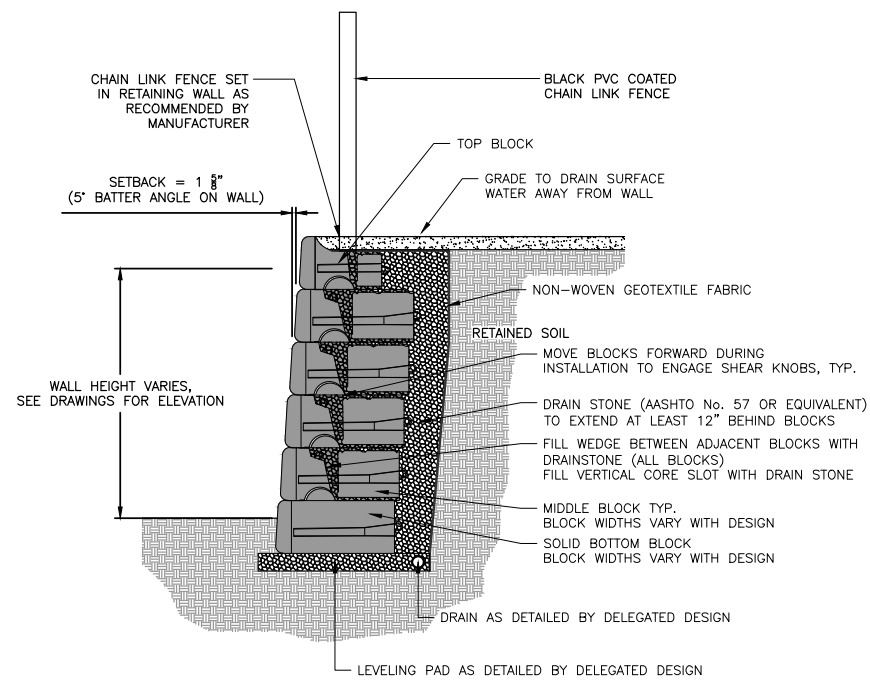
6-Ft HIGH CHAIN LINK FENCE
DETAIL B
NOT TO SCALE



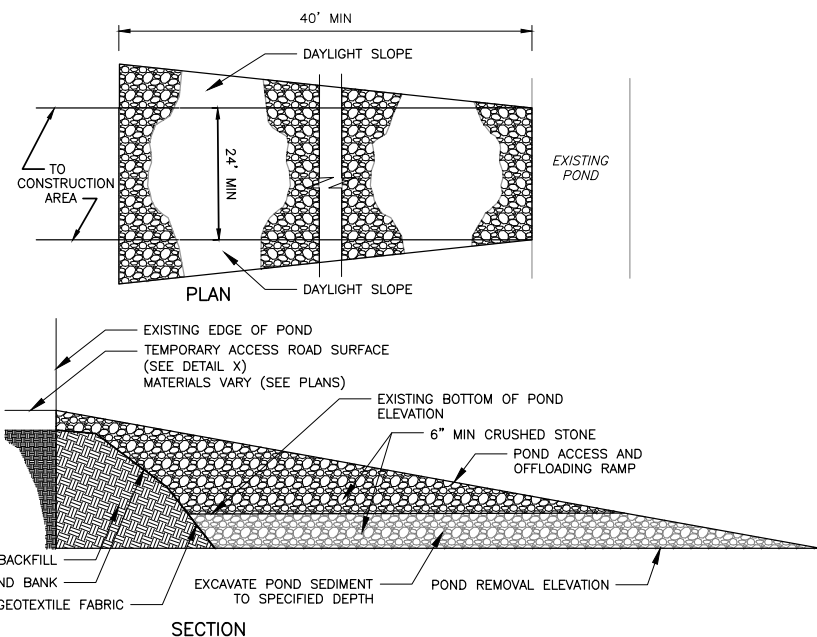
PEDESTRIAN CHAIN LINK FENCE GATE
DETAIL C
NOT TO SCALE



STEEL BOLLARD
DETAIL D
NOT TO SCALE

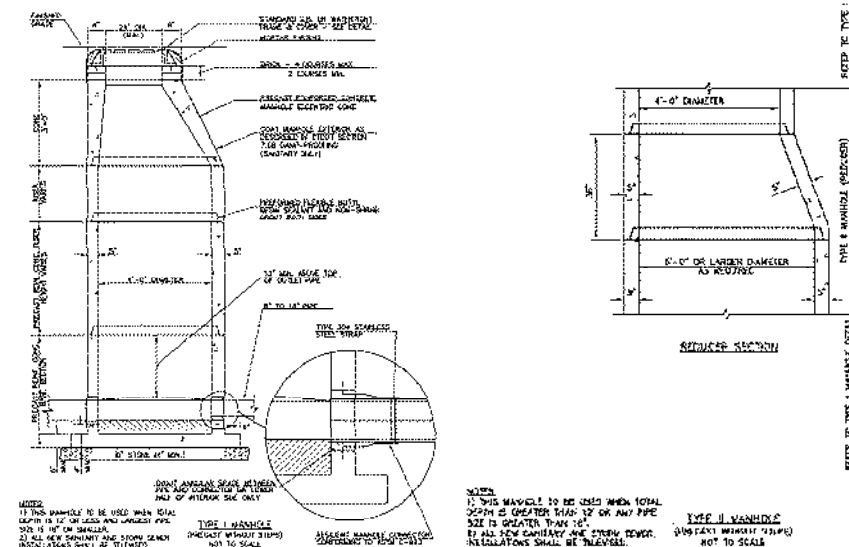


SEGMENTAL UNIT RETAINING WALL
DETAIL E
SCALE: NTS



- NOTES:
1. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED POND ACCESS/TRUCK OFFLOADING RAMP AND EXISTING GROUND SURFACE.
 2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO GROUND SURFACE.
 3. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDING STONE TO THE LENGTH OF THE ENTRANCE.
 4. REPAIR AND CLEANOUT MEASURES USED TO TRAP SEDIMENT.
 5. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
 6. THE SLOPE OF THE POND ACCESS AND OFFLOADING RAMP TO BE DETERMINED BY CONTRACTOR BASED ON SELECTED EQUIPMENT, MEANS AND METHODS, AND APPROVED BY THE ENGINEER.
 7. DAYLIGHT SLOPES OF THE RAMP WILL BE INSTALLED AS NEEDED BASED ON THE EXCAVATION DEPTH AND BANK HEIGHT TO MAINTAIN STABILITY OF THE POND ACCESS/OFFLOADING RAMP.
 8. ALL MATERIAL FOR POND ACCESS/OFFLOADING RAMP IS TEMPORARY AND WILL BE REMOVED AFTER SEDIMENT REMOVAL COMPLETED. POND BANK TO BE RESTORED PER XXXX.

POND ACCESS AND TRUCK OFFLOADING RAMP
DETAIL F
SCALE: NTS



MANHOLE
DETAIL G
NOT TO SCALE

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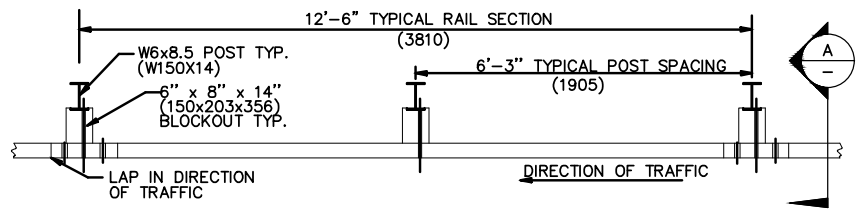
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. GERLACH
 DRAWN BY: J. BRONENKANT
 SHEET CHK'D BY: K. WAGNER
 CROSS CHK'D BY: K. GERLACH
 APPROVED BY: _____
 DATE: FEBRUARY 2023

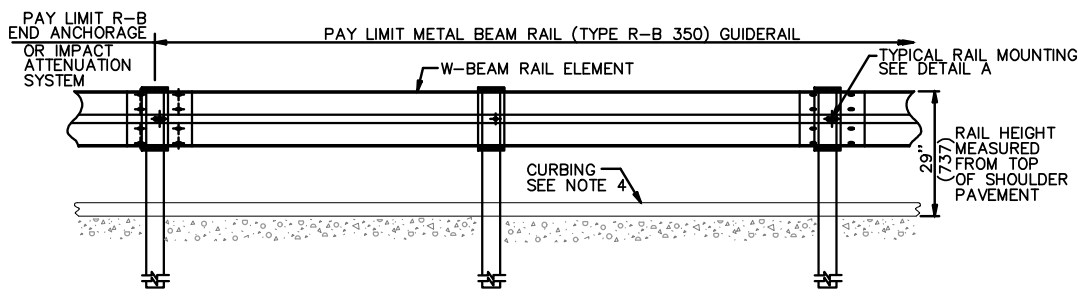
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 WHITE BRIDGE WATERWORKS FACILITIES
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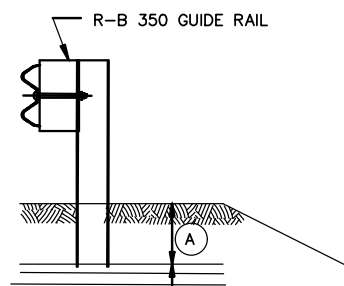
CIVIL DETAILS IV
 PROJECT NO. 10739-264571
 FILE NAME: CD004CSDT.DWG
 SHEET NO.
C-27



PLAN



ELEVATION



ELEVATION

CONDITION 1 :

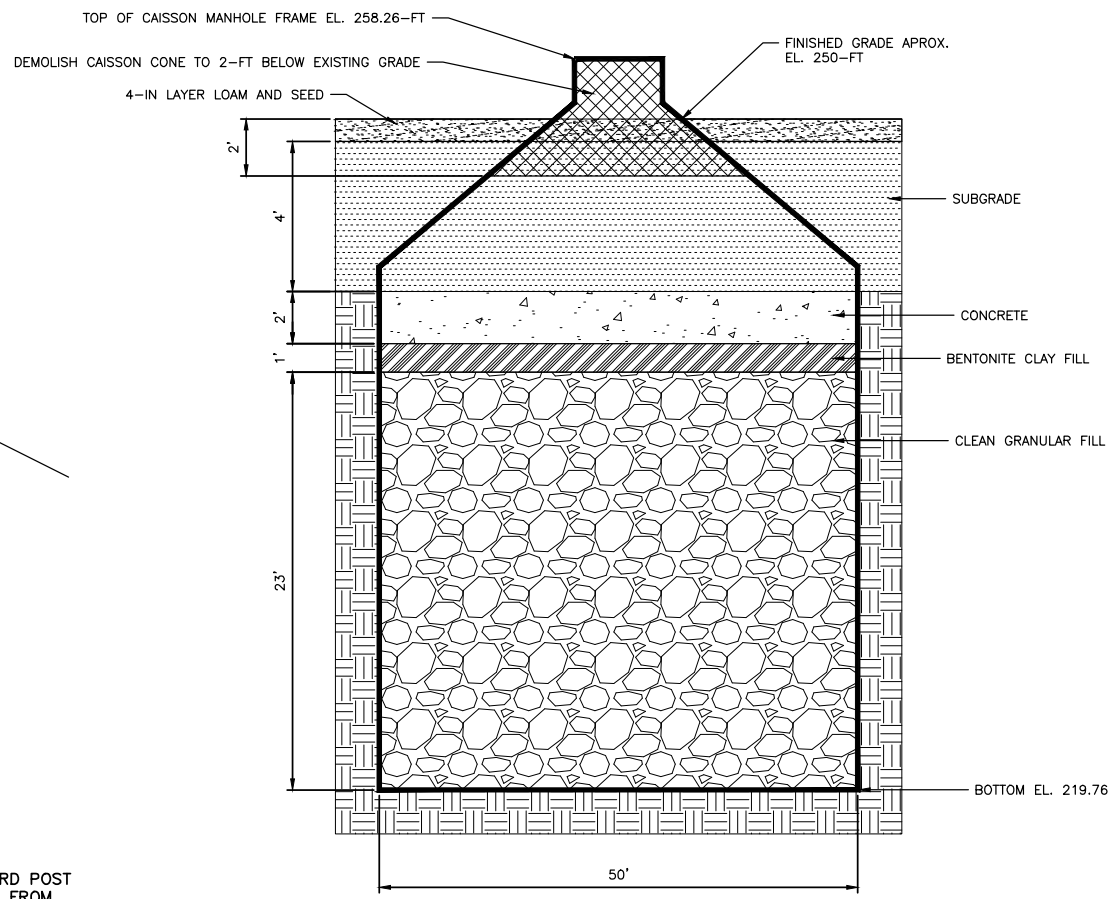
IF SOIL DEPTH IS < 18" (457) DEEP (A) DRILL 20" (507) DIA. HOLE 24" (610) INTO LEDGE (B)

CONDITION 2 :

IF SOIL DEPTH IS > 18" (457) DEEP (A) DRILL 8" (203) DIA. HOLE 1' (305) INTO LEDGE (B) OR TO THE DEPTH OF FULL EMBEDMENT OF 42" (1070) WHICHEVER IS LESS.

GENERAL NOTES:

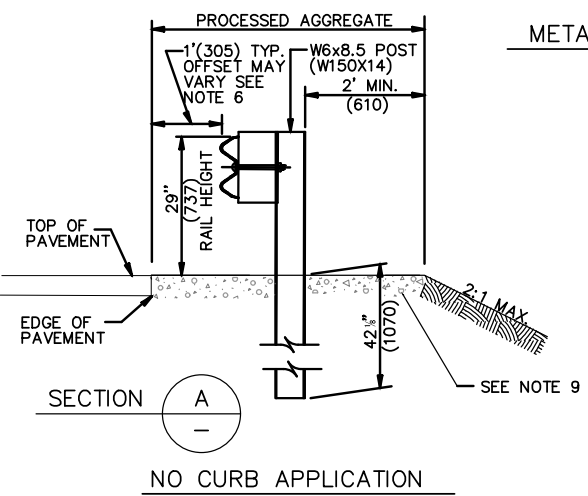
- SEE CTDOT STANDARDS FOR HARDWARE AND DELINEATOR DETAILS.
- MAXIMUM DESIGN DEFLECTION FOR R-B 350 GUIDERAIL AT THE STANDARD POST SPACING OF 6'-3" IS 4'-3". DEFLECTION REQUIREMENT IS MEASURED FROM THE BACK OF POST TO THE FACE OF OBJECT.
- FOR CURVES WITH RADII OF 150'(45.7m) OR LESS, ALL RAIL ELEMENTS SHALL BE SHOP FABRICATED TO THE PROPER RADIUS AND GALVANIZED AFTER FABRICATION. RADIUS RAIL WHEN REQUIRED AND NOTED ON THE PLANS, IS INCLUDED IN THE PAY ITEM FOR GUIDERAIL.
- RAIL HEIGHT WITH CURBING SHALL BE MEASURED FROM THE TOP OF PAVEMENT. ON HIGH SPEED ROADWAYS (>45mph 72.4kph), 4" CURBING MAY BE USED IN CONJUNCTION WITH GUIDERAIL AND THE RAIL ELEMENT SHALL BE PLACED FLUSH WITH THE FACE OF CURB. ON LOW SPEED ROADWAYS (<45mph 72.4kph), 6" CURBING MAY BE USED IN CONJUNCTION WITH GUIDERAIL AND THE RAIL ELEMENT SHALL BE PLACED A MAXIMUM OF 9" BEHIND THE FACE OF CURB.
- THREE BLOCKOUTS MAY BE USED FOR ONE POST ONLY. TWO BLOCKOUTS MAY BE USED FOR A SERIES OF POSTS. THE COST OF ADDITIONAL BLOCKOUTS AND LONGER BLOCKS SHALL BE INCLUDED IN THE BID PRICE PER FOOT OF GUIDERAIL. EXTRA BLOCKOUTS AT TRANSITION TO BRIDGE PARAPETS SHOULD BE AVOIDED.
- W-BEAM GUIDERAIL MAY BE PLACED 1' OR MORE FROM THE EDGE OF PAVEMENT ONLY ON SLOPES 10:1 OR FLATTER AND WITHOUT CURBING. IF THE RAIL IS INSTALLED WITHIN 2' OF THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE SHOULDER SLOPE EXTENDED TO THE RAIL. IF THE RAIL IS INSTALLED BEYOND 2' FROM THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE GROUND DIRECTLY BELOW THE RAIL.
- ALL R-B 350 GUIDERAIL TYPES INSTALLED ON EXPRESSWAYS AND RAMPS SHALL USE CLASS B, TYPE-II (10 GAUGE) W-BEAM RAIL ELEMENTS.
- 20" DIA. EXCAVATED HOLE SHALL BE BACKFILLED WITH SUITABLE MATERIAL, OR GRANULAR FILL COMPACTED IN 6" LIFTS BEFORE DRIVING POST OR POSTS MAY BE SET IN EXCAVATED HOLE AND BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM). 8" DIA. HOLE SHALL BE BACKFILLED WITH SUITABLE MATERIAL.
- AS DIRECTED BY THE ENGINEER AND WHERE PAVEMENT FOR RAILING IS NOT BEING INSTALLED, A MIN. 6" DEPTH OF PROCESSED AGGREGATE SHALL BE INSTALLED FROM THE PAVEMENT EDGE OR BACK OF CURB TO A MINIMUM OF 2' BEHIND THE GUIDERAIL POST AND COMPACTED IN 6" LIFTS.
- MINIMUM RAIL HEIGHT FOR NEW CONSTRUCTION SHALL BE 29" + 1".



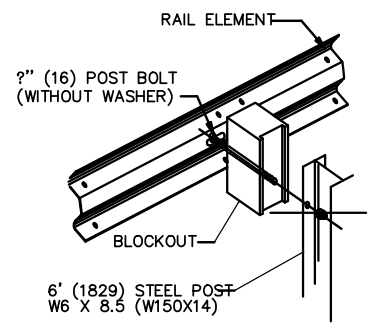
NOTES:
 1. EXISTING CAISSON WELL TO BE DECOMMISSIONED AND ABANDONED AS REQUIRED IN SECTION 019416, APPENDED TO THE SPECIFICATIONS.
 2. CAISSON TOP CONE TO BE DEMOLISHED TO AT LEAST 2 FEET BELOW FINISH GRADE.

CAISSON DECOMMISSIONING AND ABANDONMENT

DETAIL B
 NOT TO SCALE



SECTION A
 NO CURB APPLICATION



DETAIL A
 RAIL MOUNTING

METAL BEAM RAIL
 DETAIL A
 NOT TO SCALE

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. GERLACH
 DRAWN BY: J. BRONENKANT
 SHEET CHK'D BY: K. WAGNER
 CROSS CHK'D BY: K. GERLACH
 APPROVED BY: _____
 DATE: FEBRUARY 2023



CITY OF NEW BRITAIN, CONNECTICUT
 WHITE BRIDGE WATERWORKS FACILITIES
 UPPER AND LOWER WELLFIELDS
 AND POND PUMPING STATION

PROJECT NO. 10739-264571
 FILE NAME: CD005CSDT.DWG
 SHEET NO.
C-28