

Town of Ayer CONSERVATION COMMISSION

Town Hall ♦ One Main Street ♦ Ayer, MA 01432
Phone 978-772-8220 ext. 143 ♦ Fax 978-772-8208 ♦ concom@ayer.ma.us



MEETING AGENDA (In Person) Thursday, March 23, 2023

12:48pm
RECEIVED
MAR 20 2023
TOWN OF AYER
TOWN CLERK *CO*

7:00 PM GENERAL BUSINESS / OPEN SESSION

- Approval of Meeting Minutes for March 9, 2023
- Public Input

Continued Request for Determination of Applicability – 186 Woodland Way, Install 12x14 shed on property, Rocco and Karen Ciampa

Continued Public Hearing, Notice of Intent DEP File #100-0483 – Ayer Department of Public Works, Spectacle Pond Emergency Culvert Replacement, Tighe and Bond

Continued Public Hearing, Notice of Intent DEP File #100-0482 – Boston Gas Company, Gas Line Replacement along Littleton Road Right of Way, BSC Group

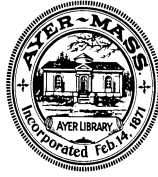
Request for Determination of Applicability – Pleasant Street Drainage Improvements, Ayer Department of Public Works

Discussion – Draft Regulations

CONSERVATION OFFICE AND MEMBER UPDATES

9:00 PM ADJOURN

Next Scheduled Meeting: 7 PM, April 13, 2023



Town of Ayer Conservation Commission

Town Hall * One Main Street * Ayer, MA 01432 * 978-772-8220, ext. 143
Minutes for **3/9/2023**

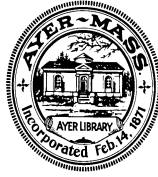
Location: Ayer Town Hall, 1st Floor

Present: Jon Schmalenberger (Chair), Mark Phillips (Vice-Chair), George Bacon (Member), Jen Amaya (Member), Jessica Gugino (Member/Clerk), Heather Hampson (Conservation Agent)
APAC taped: YES

**All Public Hearings are opened under the Wetlands Protection Act (MCL Ch. 131, section 40)
and under the Ayer Wetlands Bylaw (Article XXVI)**

7:00 PM – Open Meeting

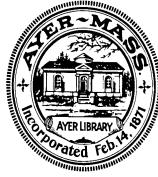
- **Confirmation of Agenda**
 - **VOTE:** G. Bacon moved to confirm the agenda as posted; M. Phillips 2nd.
 - Motion approved unanimously 5-0.
- **Approval of Meeting Minutes**
 - **VOTE:** G. Bacon moved to accept minutes for 2/9/2023 as corrected; M. Phillips 2nd.
 - Motion approved unanimously.
 - (Note: ConCom meeting scheduled for 2/23 was cancelled due to weather)
- **Public Input**
 - None received.
- **Public Meeting: Request for Determination of Applicability (RDA) – 186 Woodland Way, Rocco and Karen Ciampa**
 - The Ciampas were present to discuss the application for permitting to construct a 12/x14 ft. shed within the 100 ft. Buffer Zone.
 - H. Hampson has visited the site and raised questions concerning the slope of the lot and the proposed location for the shed – which would require up to 3 ft. of fill brought in to level the area.
 - Because of the re-grading, the Ciampas would also need to put in a retaining wall.
 - The shed itself would be placed on top of a 4-inch deep bed of 3/4-inch stone.
 - The Commission scheduled a site walk for Saturday, 3/18, at 9 a.m.
- **Public Hearing: Notice of Intent (NOI) After-the-Fact – 4 Willow Road and 0 Nemco Way, Spectacle Pond Emergency Culvert Replacement, Ayer Department of Public Works (DPW), MassDEP # 100-0483**
 - Present were: DPW Director Dan Van Schalkwyk as well as Julia Novotay and Tom Mahanna of Tighe & Bond.
 - Work to replace the water transmission main from the Spectacle Pond Water Treatment Plant, within an existing unpaved access road, began November 2022, under the Order of Conditions (OOC) issued by Ayer ConCom, MassDEP # 100-0480.



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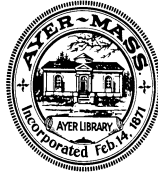
- The jurisdictional wetland Resource Areas surrounding this project consisted of Riverfront (to Bennett's Brook and an unnamed perennial stream); Inland Bank, Land Under Water Bodies and Waterways (LUWW), two Bordering Vegetated Wetlands (BVW) on either side of the access road (Wetland 1A and Wetland 1B), and Buffer Zone.
- The wetlands were previously delineated and flagged by Tighe & Bond on April 29, 2022 for the original water main project.
- During work to replace the water main, the previously existing 48-inch diameter corrugated metal pipe culvert lying underneath the access road collapsed.
 - The culvert hydrologically connects Wetlands 1A (northwest of the access road) and 1B (southeast of the access road), so its collapse immediately impeded the flow between the two BVW.
 - Temporary sandbags were employed to prevent the migration of sediment into resource areas.
- Ayer ConCom issued an Emergency Certification on December 14, 2022 to allow replacement of the failed culvert, with the understanding that an After-the-Fact NOI would then be submitted.
 - As the new water main was being installed deeper underneath the culvert, its full installation was completed prior to the culvert replacement.
 - In-kind replacement of the culvert was completed on December 21, 2022 using a 48-inch HDPE pipe.
 - Erosion control barriers were those previously installed for the original water main project.
 - An open-cut installation method was employed, excavating a 40 ft. long and 10 ft. wide trench.
 - The new culvert was installed at the same elevation as the old one, with a stone base placed around the bottom.
 - The unpaved access road was restored to its previously existing grade.
- Since work on the original project as well as the emergency culvert replacement took place outside of the active season for Blanding's turtle (April 15-October 15), the time-of-year mitigation measures required by NHESP (Natural Heritage & Endangered Species Program) were not needed.
- Given the proximity to Riverfront Areas and the requirement to provide an Alternatives Analysis, it was easily determined that there was no alternative other than the executed culvert replacement.
 - 'No action' would have had adverse impact to the Wetlands 1A and 1B and wildlife habitat, and a culvert repair was not feasible since the existing culvert had collapsed completely.
- Mr. Mahanna added that the previously existing culvert had also been jammed with beaver debris.
 - J. Gugino asked if the DPW was using grates at the ends of the culvert to prevent future beaver damming inside the culvert, and Mr. Van Schalkwyk said they would look into that.



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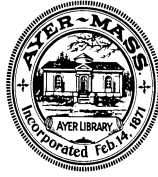
- **VOTE:** G. Bacon moved to approve the NOI and issue an OOC After-the-Fact for 100-0483; M. Phillips 2nd.
 - Motion approved unanimously 5-0.
- **VOTE:** G. Bacon moved to continue the Public Hearing to 3/23 for the purpose of signing the OOC; M. Phillips 2nd.
 - Motion approved unanimously 5-0.
- **Public Hearing: NOI – Littleton Road (Rte. 2A) Right-of-Way, Ayer/Littleton line, Boston Gas Company, MassDEP # 100-0482**
 - Carolyn Gorss, of BSC Group, was present on behalf of the applicant.
 - The project proposes the replacement of approximately 440 ft. of an existing 6 in. diameter gas main on Littleton Road running between the towns of Ayer and Littleton.
 - MassDEP had no comments when they issued the DEP file number.
 - The purpose of the project is to address safety and structural concerns at the current gas main crossing at Bennett's Brook, a gas main that services customers in both Ayer and Littleton.
 - While the project is exempt as a utility maintenance project under the Wetlands Protection Act, the proposed use of horizontal directional drilling as the technique to run the pipe underneath the riverbed and bridge foundation at Bennett's Crossing required the submission of the NOI.
 - Approximately 180 ft. of the 440 ft. replacement is within jurisdictional Resource Areas: Riverfront Area (Bennett's Brook), Bordering Land Subject to Flooding (BLSF), Land under Water and Waterways (LUWW), Bordering Vegetated Wetlands (BVW), as well as the 25 ft. Buffer Zone to BVW and Inland Bank per the Ayer Wetlands Bylaw (Article XXVI).
 - BSC Group delineated the wetlands on January 31, 2023.
 - The existing pipe to be replaced is made of steel and dates back to 1930; it will be replaced in-kind with a plastic pipe.
 - Because of the age of the existing pipe, neither repair nor 'no action' are feasible alternatives.
 - Most of the existing gas pipe will be left in place buried underground, but approximately 5 ft. of the pipe is currently exposed above Bennett's Brook, within the stone bridge crossing.
 - This exposed pipe, along with approximately 2 ft. of its underground extension (total 7 ft.), will be removed and the remaining exposed ends will be capped.
 - When the new pipe is installed, horizontal direction drilling will be used to run the pipe underneath the brook, eliminating the pipe's current exposure to extreme weather and flooding events.
 - Attachment E of the NOI details that site-specific Contingency Plans must be provided by the contractor prior to construction, to be employed only in the unlikely event that there is an "Inadvertent Return" of bentonite drilling fluid.



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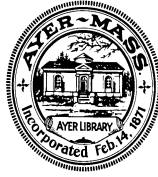
- Erosion and sedimentation controls will be implemented to protect adjacent Resource Areas.
- If dewatering is needed, it will be done outside of Resource Areas, and will employ a filter bag and appropriate additional erosion controls.
- All equipment will be located within the roadway or adjacent shoulder; the work area will be restored to preexisting conditions to the extent practicable upon completion of the project.
- No temporary or permanent impacts are anticipated to LUWW or the Bank.
- The project will likely begin soon after an OOC is issued, and once everything is mobilized, should take 3-4 weeks.
- In response to M. Phillips question about whether bentonite will be stored on site, Ms. Gorss said it likely would not be stored but that the Commission could specify in a Special Condition in the OOC that it could not be stored on site.
- A site walk was scheduled for Saturday, 3/18, starting between 9:30 and 10 a.m.
- **VOTE:** G. Bacon moved to continue the Public Hearing for 100-0482 to March 23, 2023; M. Phillips 2nd.
 - Motion approved unanimously 5-0.
- **Discussion: Review of Quotes for Ayer Pond Treatments,, 2023 Season**
 - In response to the Request for Quotes (RFQ) issued in February, only one bid was received this year, from Water & Wetland Inc., the company that has performed pond maintenance for the previous two years.
 - Joe Onorato, of Water & Wetland, was previously present at ConCom's 2/9/2023 meeting to provide the Year-End Report for the 2022 Season and answer questions (see minutes for that meeting).
 - **VOTE:** G. Bacon moved to approve awarding the \$27,380 contract for the 2023 season to Water & Wetland, to treat Sandy, Flannagan and Pine Meadow ponds, with the understanding that if there is another toxic blue-green algae bloom, additional costs would be considered, per the figures cited in the bid, if necessary; M. Phillips 2nd.
 - Motion approved unanimously 5-0.
 - Additional discussion took place around the Town Manager's question as to how much money for pond maintenance would be requested in a Warrant Article at this year's Spring Town Meeting (April 24).
 - There is currently \$40,000 available from previous Warrant articles, enough to cover this year's contract, and more if a toxic algae bloom returns.
 - The tricky thing for ConCom is that it needs to have guaranteed funding available in order to enter into a contract, but waiting to secure funding until after a Town Meeting vote in late April risks losing access to early scheduling by the contractor.
 - Early-season treatment for fanwort in particular (late May or early June) has been found to be more efficacious that waiting until later.



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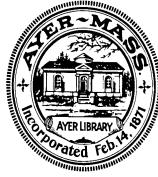
- If a contractor's scheduling dates fill up before ConCom is able to enter into a contract, then the initial treatment gets pushed until later, sometimes requiring the use of more chemicals.
 - Therefore ConCom members were resistant to the idea of reducing the amount asked for in the Warrant this year, in order to have adequate funding in place prior to next year's Spring Town Meeting, for next year's treatment.
 - H. Hampson will convey to Town Manager Robert Pontbriand that the Commission wishes the Warrant Article to seek \$30,000 in funding, as was the case the previous year.
 - J. Gugino noted that she had attended the 3/6 meeting of Littleton's Clean Lakes Committee to listen to their discussion of this year's treatment plan for Spectacle and Long ponds.
 - They are continuing to experiment with ecoharvesting (which cost around \$38,000 last year just to treat two lobes of Spectacle Pond) but it will be 5 or 6 years before they can really evaluate its success.
 - They are considering purchasing their own ecoharvesting equipment (roughly \$80,000).
 - In addition, they noted that ecoharvesting is not done until later in the season (late August/early September) when plant growth has brought the plants up to the surface of the water where the harvester can reach them.
 - The Committee had also noted they expected a lot of unhappy residents as a result of this later-season treatment plan.
 - At this point resident Susan Tordella had joined the meeting, continuing her advocacy for ConCom to explore non-chemical means of invasive aquatic weed control.
 - The Commission will need to get more information about ecoharvesting, including its potential to worsen the situation with invasives like fanwort and milfoil through fragmentation of the plants.
 - Regarding the town of Harvard's winter drawdown of Bare Hill Pond as a means of limiting invasives, Ms. Tordella said they installed a pump house to aid in the drawdown.
 - Discussion to be continued, but treatment will proceed as currently planned since the Commission does not want to lose the progress it has made in controlling invasives in the three ponds it manages.
- **Discussion: Friends of Pine Meadow Stewardship Program**
 - H. Hampson will send ConCom members the draft document for seeking to re-create a volunteer program.
 - **Conservation Commission Office and Member Updates**
 - Ayer Solar II, 0 Washington Street, Ayer Solar II LLC/Rohit Garg, MassDEP # 100-0444
 - The draft of the Conservation Restriction (CR) for this project has been reviewed by the applicant's counsel as well as Ayer's Town Counsel (KP Law); it is now back before the State for their final review.



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- Rohit Garg called H. Hampson to clarify what was needed in terms of detailed plans for the Amended NOI that ConCom recently required given the extent of changes that have occurred to this project.
- On weekly site visits the last two weeks, H. Hampson reported that the site is currently stable, erosion controls are now in good shape, and there is no erosion or backup of sediment.
- Ayer/Devens Neighborhood Pocket Forest Planting Project
 - A meeting took place the previous Saturday at St. Andrews Church near where the pilot project will be located – by the railroad bridge and East Main Street.
 - Saturday, April 29, is scheduled for planting day.
 - A ‘foraging day’ at the High School will be undertaken to gather leaves, small sticks, etc. that will contribute forest microbes to enhance the growth of the new pocket forest.
- Earth Day, Friday, April 21
 - H. Hampson is working with resident Beth Suedmeyer, who is currently working under the Devens Enterprise Commission, about the Commission hosting an informational table at this event on MacPherson Road.
- MACC (Mass. Association of Conservation Commissions)
 - One of the on-line sessions H. Hampson attended dealt with climate change resiliency and how it can be addressed through bylaws and regulations.
 - H. Hampson will be working on some updates to the local Wetland Bylaw (Article XXVI) that the Commission, and then Town Meeting, can consider.
- Devens Symposium, March 10-11
 - Alan Manoian, Director of Economic & Community Development, has been organizing a symposium for local feedback on the eventual disposition of Devens.
 - The Devens Enterprise Commission was formed to administer (through regulation and permitting) the Devens Regional Enterprise Zone in the wake of the official closing of Fort Devens in 1996 that led to the sale of most of its land to MassDevelopment.
 - State management is due to end in 2033, and the question of whether the land that comprised Fort Devens returns to the towns it was taken from (primarily Harvard, Shirley and Ayer) remains to be resolved.
 - For Ayer, one of the major questions is whether it would be beneficial to the Town to take back the MacPherson Road land as well as the Moore Airfield land.
 - The Airfield in particular is an EPA Superfund site with a toxic plume of chemicals deep underneath.
- North County Land Trust (NCLT)
 - H. Hampson is still waiting to hear back from Oxbow Associates about some material needed for one of the CRs now being worked on by NCLT under their new contract with the Town.



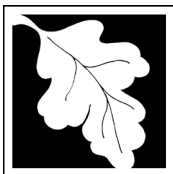
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- Representatives from NCLT, including former Conservation Administrator Jo-Anne Crystoff, do not want to meet with the Commission until this information for the CRs has been received.
- Waterways Sign Project
 - M. Phillips has not heard yet if the replacement signs for Flannagan Pond have been completed.
 - H. Hampson is almost done with the Final Report needed by the Nashua River Stewardship Council, the entity that provided the grant money for this project.
- Grove Pond Water Chestnut Pull project
 - J. Gugino, who represents the Commission on the Community Preservation Committee, said she learned that PACE (Laurie Nehring) was successful in receiving a grant from the Nashua River Stewardship Council for this project for the second year in a row.
 - Ms. Nehring appeared before the Commission on 1/26/2023, seeking a letter of support for this year's grant application and outlining what is planned for this year's campaign against the invasive weed.
- **8:55 PM – Adjourn Meeting**
 - **VOTE:** G. Bacon moved to adjourn; M. Phillips 2nd.
 - Motion approved unanimously 5-0.

Minutes Recorded and Submitted by Jessica G. Gugino, Clerk

Date / Signature of Approval: _____



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Ayer
City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Town of Ayer Department of Public Works

mhernon@ayer.ma.us

Name

E-Mail Address

25 Brook Street

Mailing Address

Ayer

MA

01432

City/Town

State

Zip Code

(978) 772-8240

(978) 772-8244

Phone Number

Fax Number (if applicable)

2. Representative (if any):

Firm

Matthew Hernon, Town Engineer

mhernon@ayer.ma.us

Contact Name

E-Mail Address

25 Brook Street

Mailing Address

Ayer

MA

01432

City/Town

State

Zip Code

(978) 772-8240

(978) 772-8244

Phone Number

Fax Number (if applicable)

B. Determinations

1. I request the Town of Ayer make the following determination(s). Check any that apply:
Conservation Commission

- ☒ a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- ☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- ☒ c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- ☒ d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Town of Ayer

Name of Municipality

- ☐ e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 1- Request for Determination of Applicability
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Ayer
City/Town

C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):
- | | |
|---------------------------|--------------------------------|
| Pleasant Street Extension | Ayer |
| Street Address | City/Town |
| 12 | N/A (work within Right-of-Way) |
| Assessors Map/Plat Number | Parcel/Lot Number |
- b. Area Description (use additional paper, if necessary):
- Project Area is within an existing Public Way (Pleasant Street Extension).
- c. Plan and/or Map Reference(s):
- | | |
|---|---------|
| Plan titled "Pleasant Street Drainage Improvements" | 03-2023 |
| Title | Date |
| | |
| Title | Date |
| | |
| Title | Date |
2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):
- Proposed work includes the replacement of existing underground drainage pipes and structures.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Ayer
City/Town

C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

310CMR10.53.3.f

Maintenance and improvement of existing public roadways, but limited to widening less than a single lane, adding shoulders, correcting substandard intersections, and improving inadequate drainage systems.

310 CMR 10.53.3.k.

The routine maintenance and repair of road drainage structures including culverts and catch basins, drainage easements, ditches, watercourses and artificial water conveyances to insure flow capacities which existed on the effective date of 310 CMR 10.51 through 10.60 (April 1, 1983).

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☐ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Ayer
City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Town of Ayer

Name

25 Brook Street

Mailing Address

Ayer

City/Town

MA

State

01432

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Matthew Hernon
Signature of Applicant

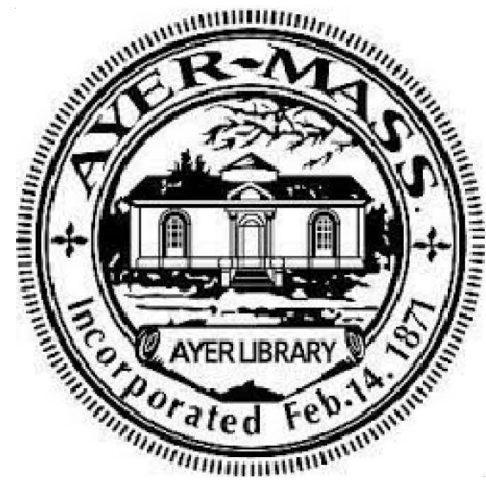
3-16-2023
Date

Signature of Representative (if any)

Date

TOWN OF AYER, MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

PLEASANT STREET
DRAINAGE IMPROVEMENTS
CONTRACT NO. 23DPW08

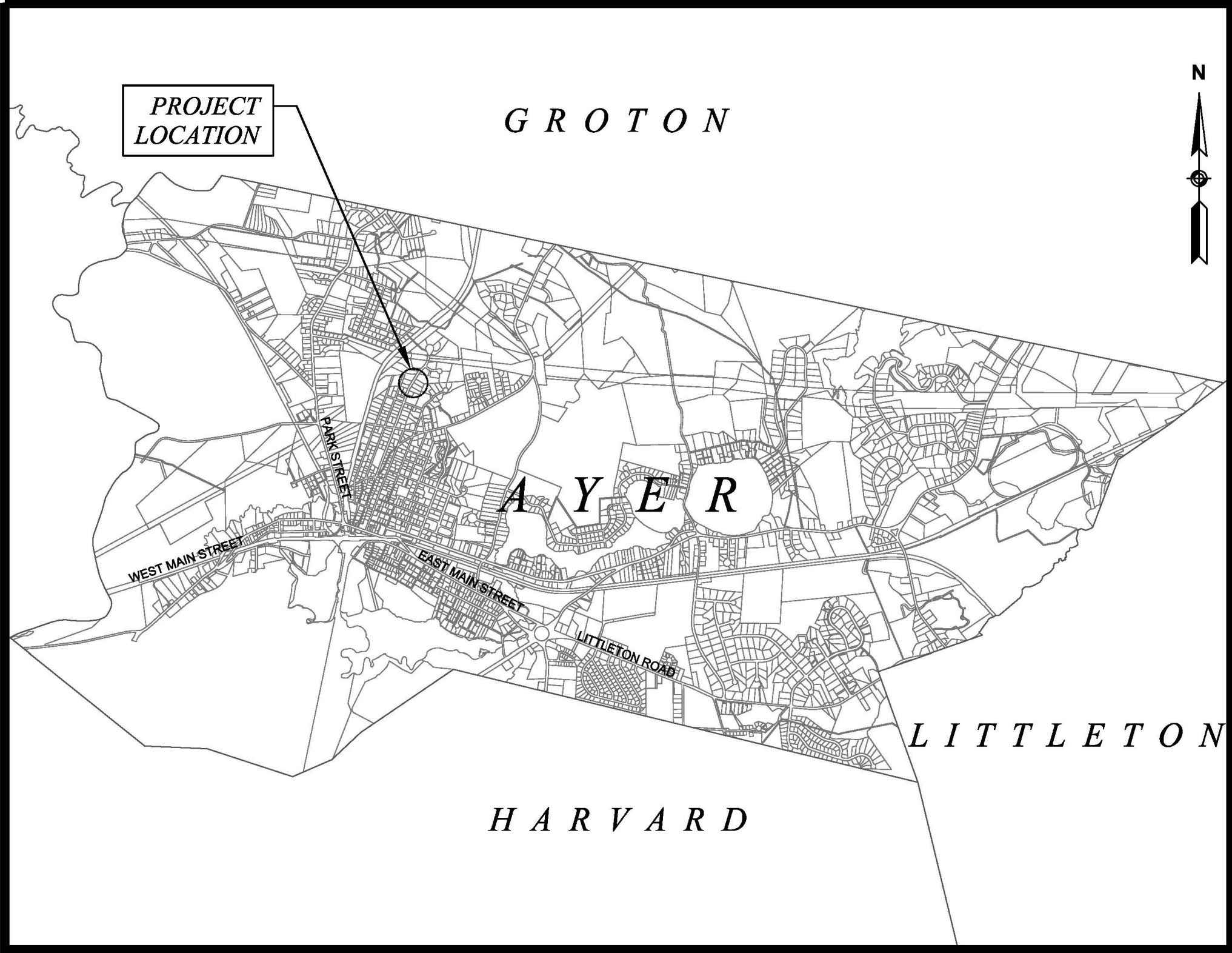


TOWN MANAGER
ROBERT PONTBRIAND

DIRECTOR OF PUBLIC WORKS
DAN VAN SCHALKWYK, P.E.

WATER & SEWER SUPERINTENDENT
KIMBERLY ABRAHAM

TOWN ENGINEER
MATTHEW HERNON, P.E.



LOCATION PLAN
NO SCALE

DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	NOTES, LEGEND AND ABBREVIATIONS
3	PLAN AND PROFILE
4	DETAILS

DRAFT
NOT FOR CONSTRUCTION
CONSERVATION COMMISSION REVIEW

MARCH 2023

EXISTING CONDITIONS NOTES

- 1. EXISTING CONDITIONS BASED ON AN ON-THE-GROUND TOPOGRAPHIC SURVEY PERFORMED BY GOLDSMITH, PREST, AND RENGWALL (GPR) IN 2014.
- 2. THE LOCATION, TYPE, AND SIZE OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL EXISTING UTILITIES ARE SHOWN. CONTRACTOR TO FIELD VERIFY LOCATIONS, SIZES, AND DEPTHS OF EXISTING UTILITIES.

GENERAL CONSTRUCTION NOTES

- 1. WORK HOURS SHALL BE FROM 8:00 AM TO 3:30 PM, MONDAY THROUGH FRIDAY.
- 3. CONTRACTOR TO PROVIDE DETAILED CONSTRUCTION SCHEDULE TO AYER DPW FOR REVIEW AND APPROVAL.
- 4. TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH THE PROJECT'S SPECIFICATIONS AND PAVED A MINIMUM OF ONCE PER WEEK.
- 5. OPEN TRENCHES SHALL BE BACKFILLED COMPLETELY AT THE END OF EACH DAY. STEEL PLATES MAY BE PROVIDED IF PERMITTED BY WELLESLEY WATER & SEWER DIVISION.
- 6. CONTRACTOR TO RESTORE DISTURBED AREAS (PAVEMENT, GRASS, GRAVEL ETC.) TO ORIGINAL OR BETTER CONDITION UNLESS OTHERWISE NOTED.
- 7. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES NOT SCHEDULED FOR REMOVAL.
- 8. EXCAVATED SOIL SHALL NOT BE LEFT ON SITE OVERNIGHT.
- 9. EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED AND SUPPORTED AT ALL TIMES BY THE CONTRACTOR.
- 10. CONTRACTOR SHALL NOTIFY AYER DPW IF EXISTING UTILITIES ARE FOUND TO CONFLICT WITH PROPOSED WORK.

EROSION & SEDIMENTATION CONTROL NOTES

- 1. WETLAND FLAGS WERE PLACED BY GOLDSMITH, PREST, AND RENGWALL (GPR) IN 2014.
- 2. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EROSION CONTROLS SHOWN ON THE PROJECT PLANS.
- 3. CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES,OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- 4. DEWATERING MAY BE NECESSARY. IF REQUIRED, A DEWATERING BASIN SHALL BE CONSTRUCTED WITHIN THE RESPECTIVE WORK AREA.

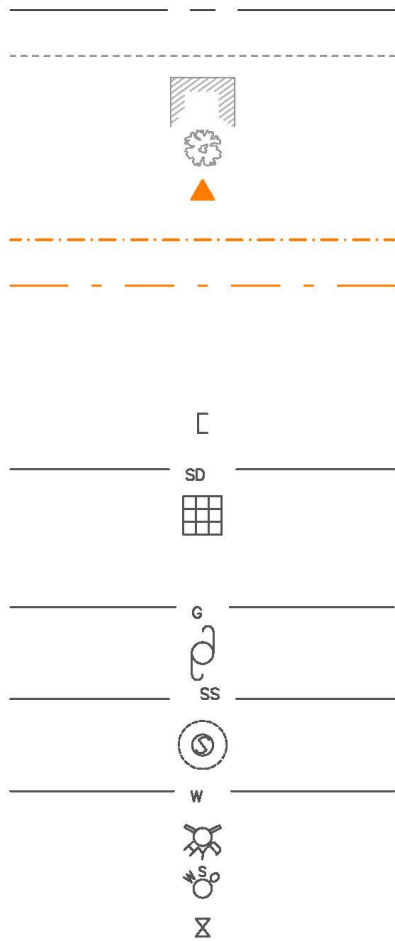
TRAFFIC CONTROL NOTES

- 1. CONTRACTOR NOT PERMITTED TO CLOSE ROADWAY WITHOUT APPROVAL UNLESS APPROVED OF BY TOWN OF AYER, POLICE, FIRE, AND DPW.
- 2. TRAFFIC CONTROL DEVICES TO BE PROVIDED AND MAINTAINED BY CONTRACTOR.

DRAINAGE CONSTRUCTION NOTES

- 1. CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS PRIOR TO DRAINAGE CONSTRUCTION. REPORT ANY DISCREPANCIES TO AYER DPW.
- 2. RIM ELEVATIONS OF PROPOSED DRAINAGE STRUCTURES ARE APPROXIMATE AND SHALL BE ADJUSTED AS REQUIRED TO MATCH FIELD CONDITIONS.

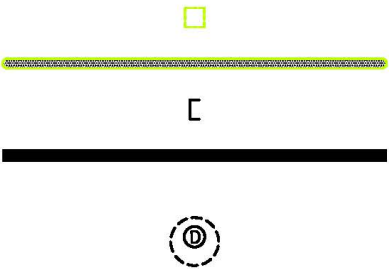
EXISTING



LEGEND

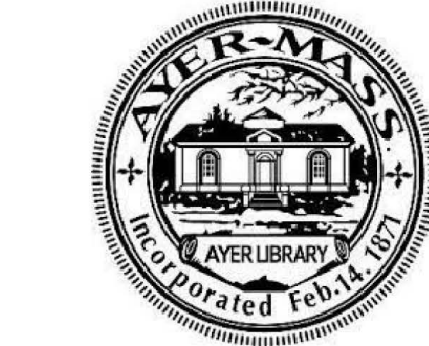
- PROPERTY LINE
- CONTOUR LINE
- HOUSE/BUILDING
- TREE
- WETLAND FLAG
- EDGE OF WETLAND
- BUFFER ZONE
- SILT SACK
- SILT SOCK/SILT FENCE
- CAP/PLUG
- STORM DRAIN
- CATCH BASIN
- DRAIN MANHOLE
- GAS MAIN
- UTILITY POLE
- SANITARY SEWER MAIN
- SANITARY SEWER MANHOLE
- WATER MAIN
- HYDRANT
- WATER CURB STOP
- WATER GATE VALVE

PROPOSED



ABBREVIATIONS

ABAN	ABANDONED
CB	CATCH BASIN
CI	CAST IRON
DI	DUCTILE IRON
DMH	DRAIN MANHOLE
EL	ELEVATION
HDPE	HIGH DENSITY POLYETHYLENE
HYD	HYDRANT
INV	INVERT
N/F	NOW OR FORMERLY
LF	LINEAR FEET
PVC	POLYVINYL CHLORIDE
TYP	TYPICAL
WF	WETLAND FLAG
WSO	WATER SHUT OFF



TOWN OF AYER
DEPARTMENT OF PUBLIC WORKS
25 BROOK STREET
AYER, MA 01432

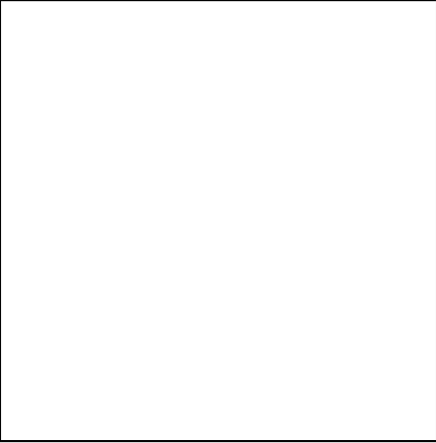
PLEASANT STREET
DRAINAGE
IMPROVEMENTS

CONTRACT: 23DPW08

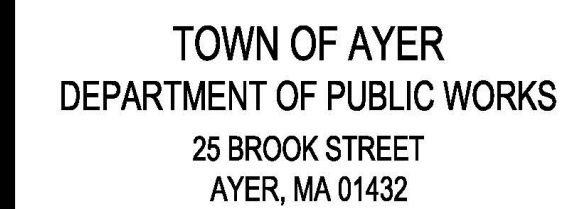
NOTES, LEGEND AND
ABBREVIATIONS

DESIGNED BY: M. HERNON
DRAWN BY: M. HERNON
CHECKED BY: D. VAN SCHALKWYK

REVISIONS		
REV.	COMMENTS	DATE



DRAFT
NOT FOR CONSTRUCTION
CONSERVATION COMMISSION REVIEW



PLEASANT STREET DRAINAGE IMPROVEMENTS

CONTRACT: 23DPW08

PLAN AND PROFILE

DESIGNED BY: M. HERNON

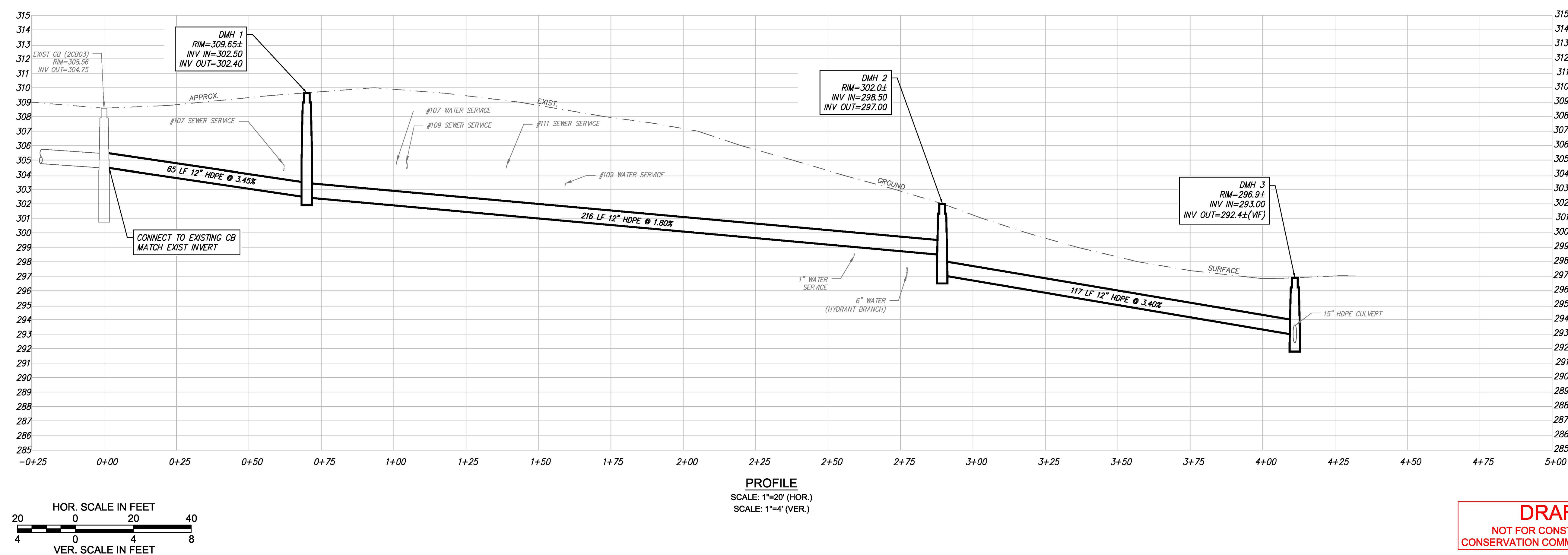
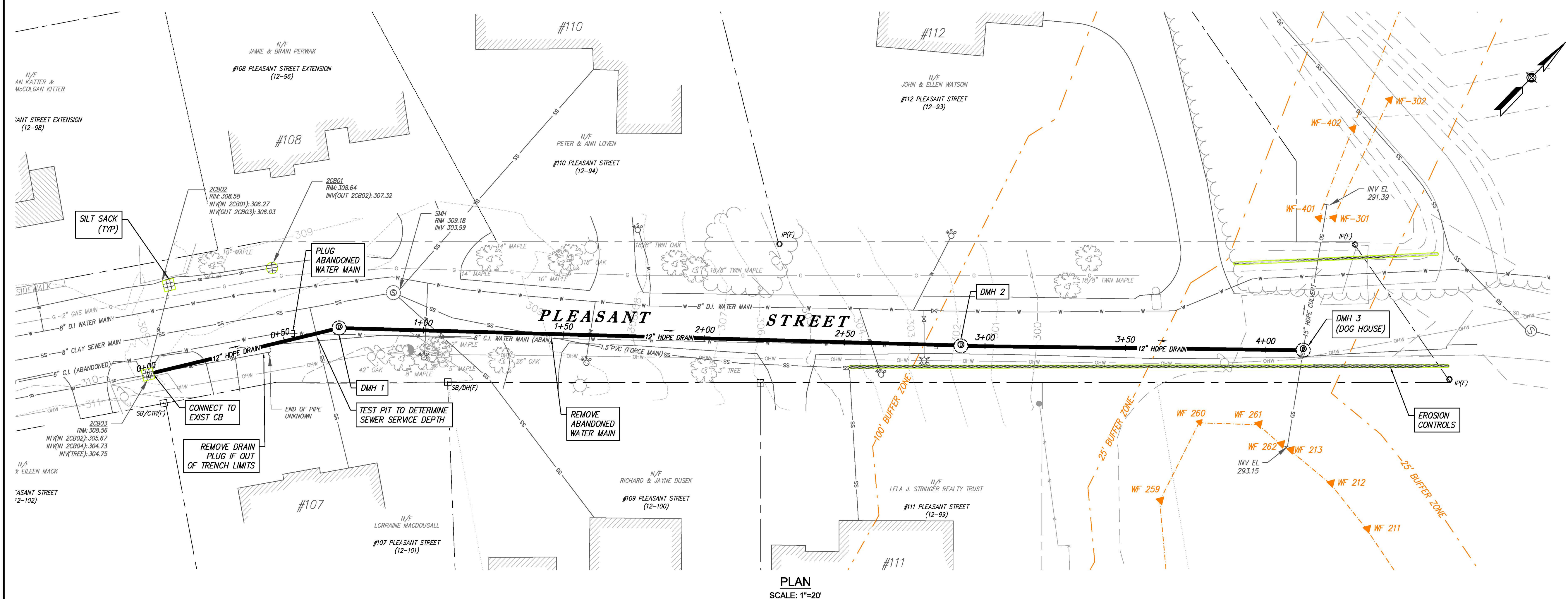
DRAWN BY: M. HERNON

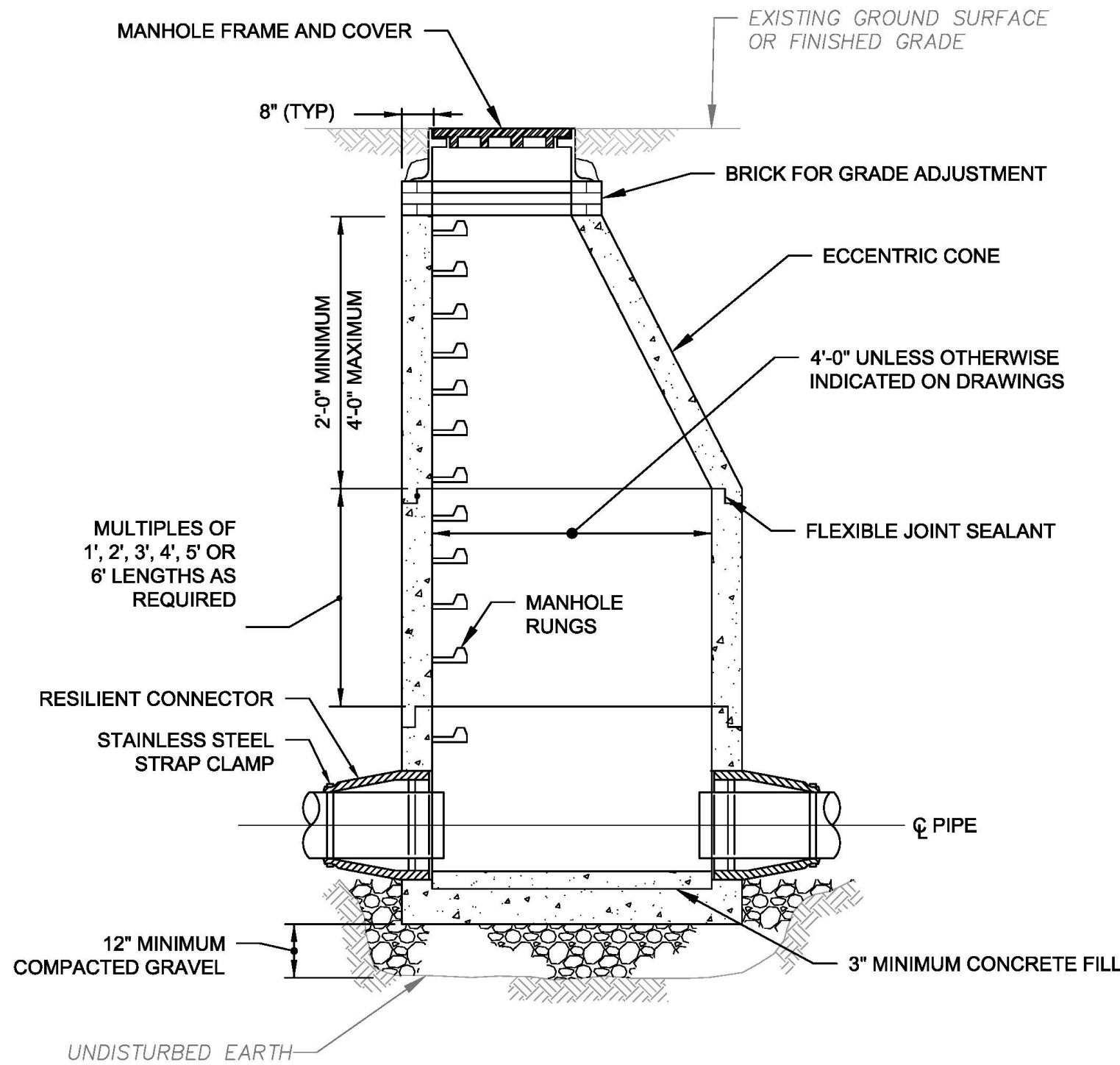
CHECKED BY: D. VAN SCHALKWYK

REVISIONS		
REV.	COMMENTS	DATE

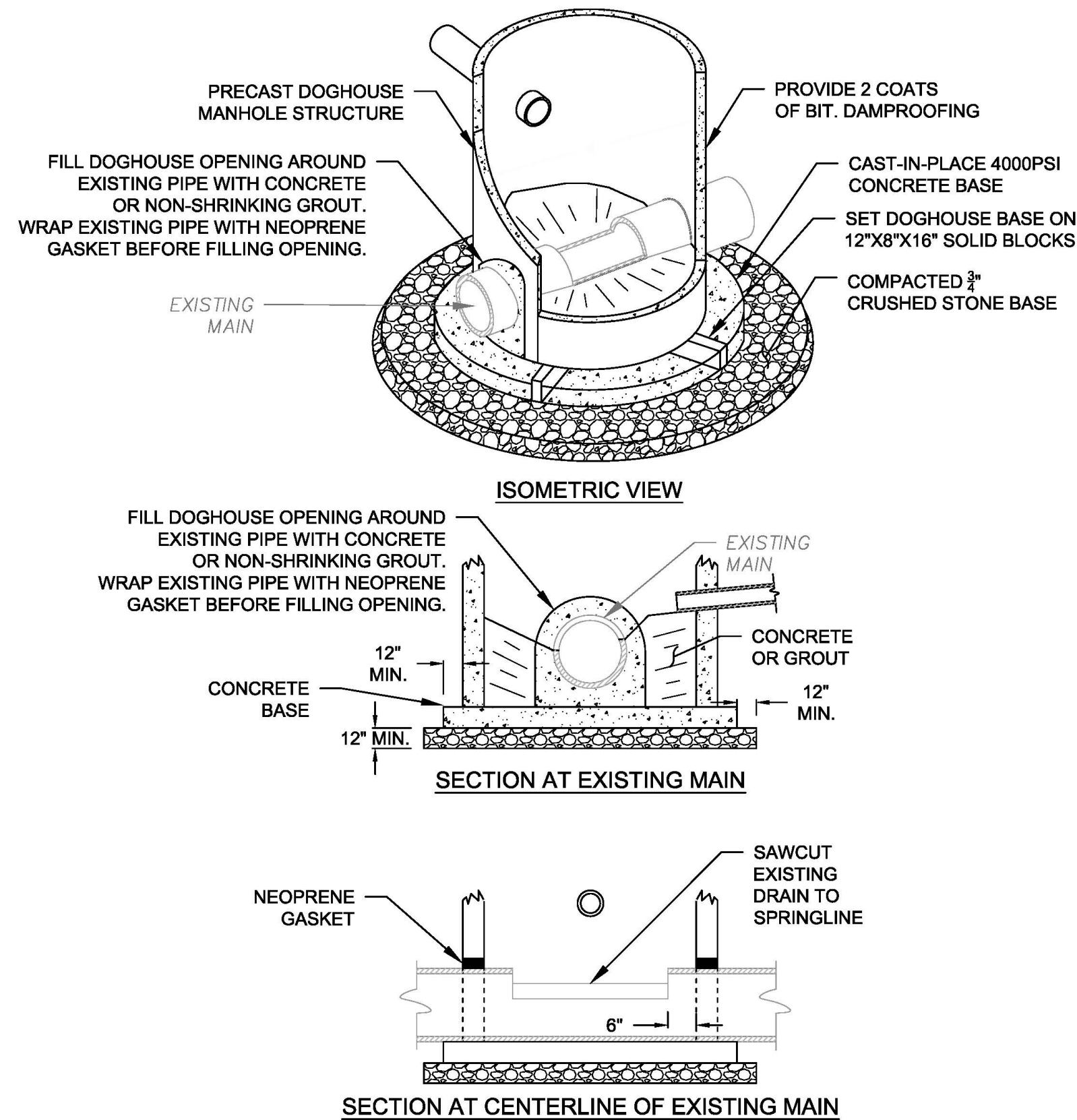
DRAFT
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CONSERVATION COMMISSION REVIEW

SHEET 3 OF 4

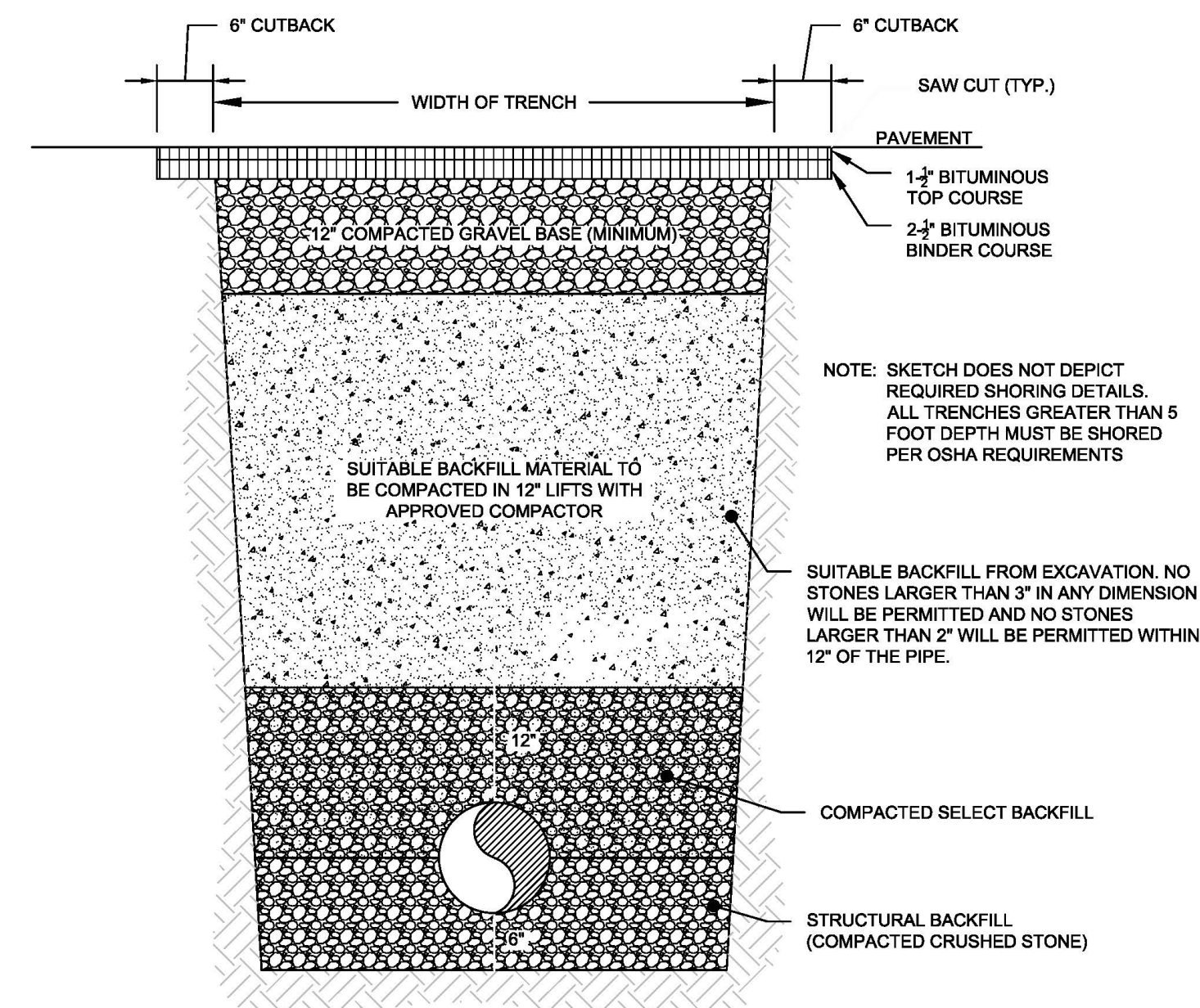




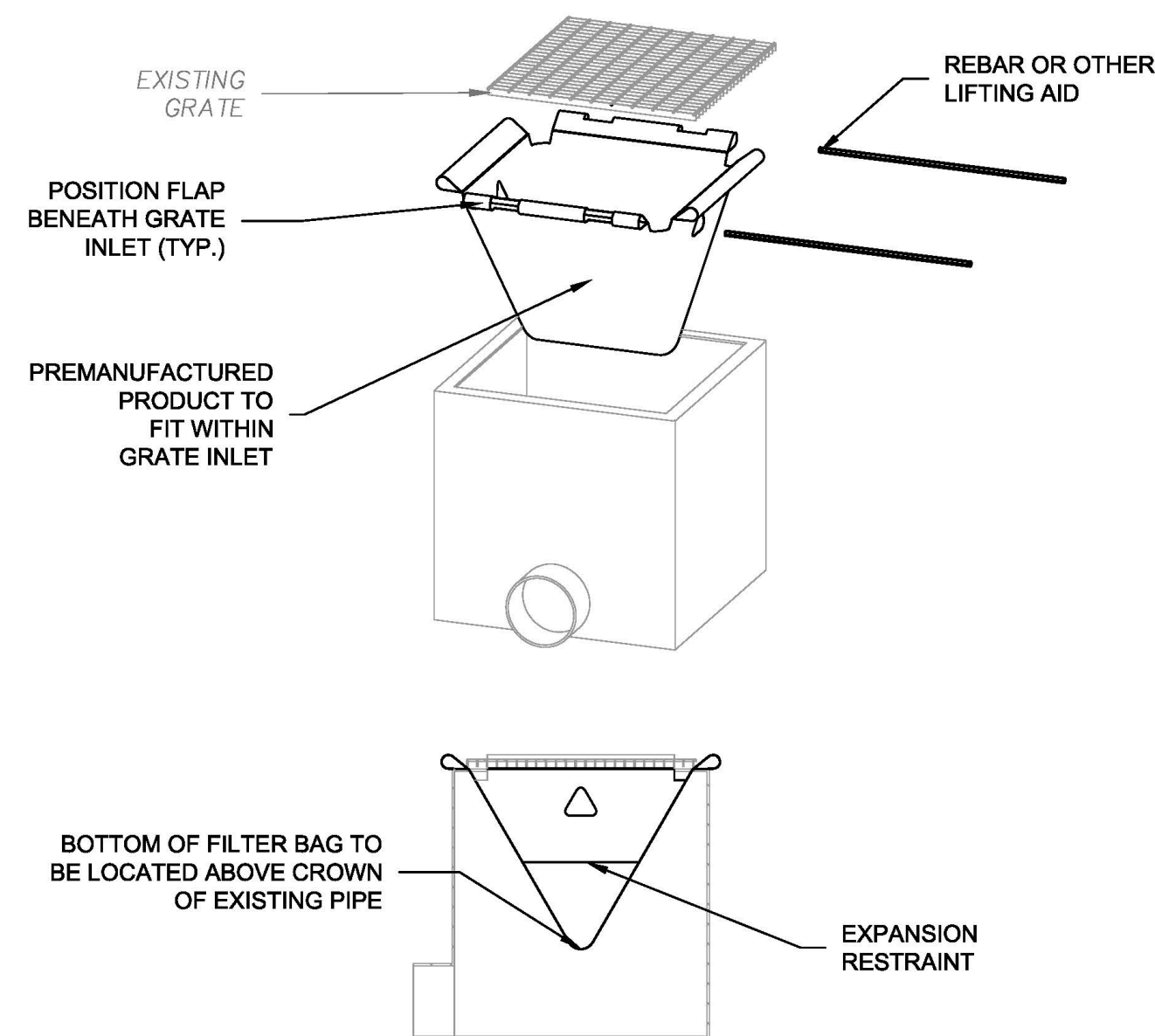
TYPICAL PRECAST DRAIN MANHOLE
NOT TO SCALE



DOGHOUSE MANHOLE INSTALLATION OVER EX. DRAIN LINE
NOT TO SCALE

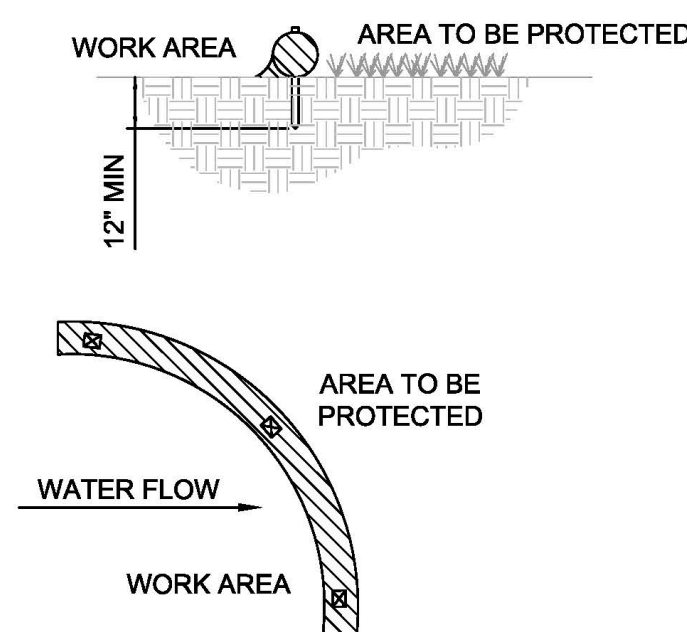


DRAIN PIPE TRENCH SECTION
NOT TO SCALE

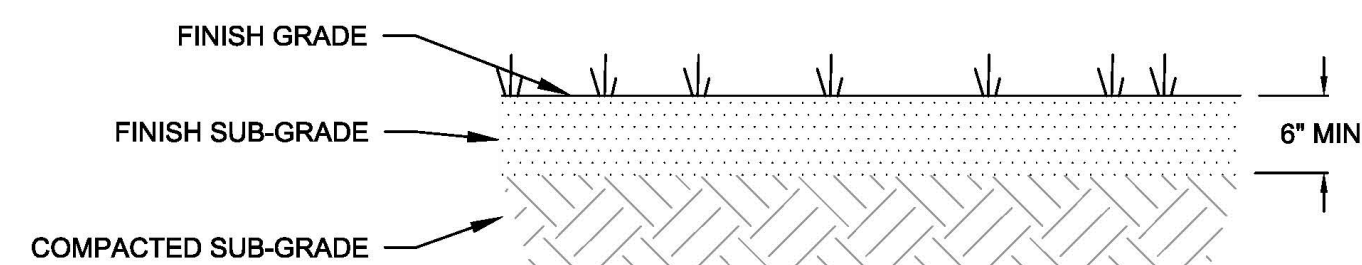


- NOTES:
1. INLET PROTECTION TO BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES.
 2. PRODUCT TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 3. INLET PROTECTION TO BE MAINTAINED BY CONTRACTOR DURING CONSTRUCTION.

CATCH BASIN INLET PROTECTION
NOT TO SCALE

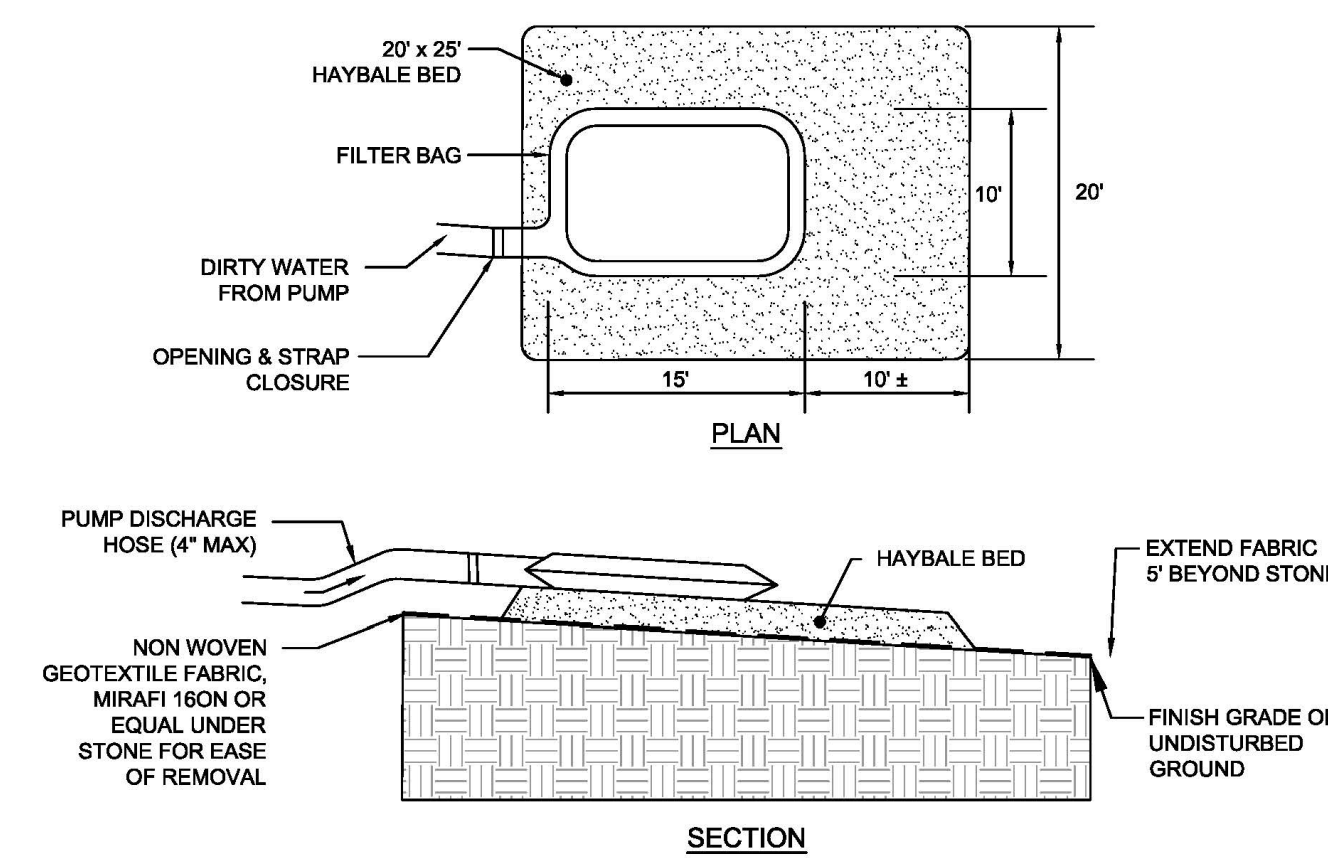


12" DIAMETER FILTER SOCK
NOT TO SCALE



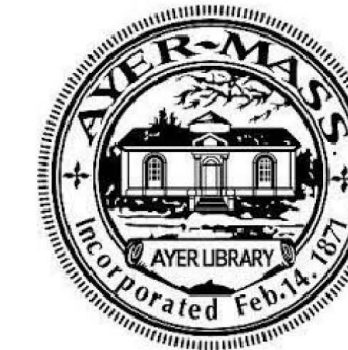
- NOTES:
1. SEED MIX SHALL BE NEW ENGLAND CONSERVATION SEED MIX, FREE OF FERTILIZERS.
 2. LOAM SHALL BE NATIVE TO LOCAL AREA AND OF LOW NITROGEN CONTENT.
 3. INSTALL CURLEX CL EROSION CONTROL BLANKET AS MANUFACTURED BY AMERICAN EXCELSIOR COMPANY (OR APPROVED EQUAL) ON ALL LOAM AND SEEDED SLOPES 3:1 OR STEEPER.

LOAM AND SEED (DISTURBED AREAS)
NOT TO SCALE



- NOTES:
1. LOCATE DISCHARGE SITE ON FLAT UPLAND AREAS AS FAR AWAY AS POSSIBLE FROM STREAMS, WETLANDS, OTHER RESOURCES AND POINTS OF CONCENTRATED FLOW.
 2. DOWNGRADIENT RECEIVING AREA MUST BE WELL VEGETATED OR OTHERWISE STABLE FROM EROSION I.E. FOREST FLOOR OR OTHER COARSE GRAVEL/STONE.
 3. NEVER DISCHARGE TO AREAS THAT ARE BARE OR NEWLY VEGETATED.
 4. DIRT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E. FOR COARSE PARTICLES A WOVEN MATERIAL, FOR SILTS/CLAYS A NON-WOVEN MATERIAL.
 5. DO NOT OVER PRESSURIZE DIRT BAG OR USE BEYOND CAPACITY.
 6. CHANNELS DUG FOR DISCHARGING WATER FROM THE EXCAVATED AREA NEED TO BE STABLE IF FLOW VELOCITIES CAUSE EROSION WITHIN THE CHANNEL. THEN DITCH LINING SHOULD BE USED.
 7. BUCKETED WATER SHOULD BE DISCHARGED IN A STABLE MANNER TO THE SEDIMENT REMOVAL AREA A SPLASH PAD OF RIPRAP UNDERLAIN WITH GEOTEXTILE MAY BE NECESSARY TO PREVENT SCOURING OF SOIL.
 8. DEWATERING IN PERIODS OF INTENSE HEAVY RAIN WHEN THE INFILTRATIVE CAPACITY OF THE SOIL IS EXCEEDED, SHOULD BE AVOIDED.
 9. INSTALL DIVERSION DITCHES OR BERMS TO MINIMIZE THE AMOUNT OF CLEAN STORMWATER RUNOFF ALLOWED INTO THE EXCAVATED AREA.
 10. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE DEWATERING FACILITY SHOULD BE REVIEWED FREQUENTLY SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW THAT MAY COMPROMISE THE BUFFER AREA. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
 11. EROSION CONTROL REQUIRED AROUND DEWATERING DISCHARGE SEDIMENT CONTROL DEVICE.

DEWATERING DISCHARGE SEDIMENT CONTROL
NOT TO SCALE



TOWN OF AYER
DEPARTMENT OF PUBLIC WORKS
25 BROOK STREET
AYER, MA 01432

PLEASANT STREET DRAINAGE IMPROVEMENTS

CONTRACT: 22C-470-1689

DETAILS

DESIGNED BY: M. HERNON
DRAWN BY: M. HERNON
CHECKED BY: D. VAN SCHALKWYK

REVISIONS		
REV.	COMMENTS	DATE

DRAFT
NOT FOR CONSTRUCTION
CONSERVATION COMMISSION REVIEW

Additional Regulation Ideas and Modifications

These are proposed additions to our current regs.

General Provisions

- **Advice from Town Staff**

Any advice, opinion, or information given to an Applicant by a Commission member outside of a Commission meeting, or by any agency, officer, or employee of the Town, shall be considered advisory only, and not binding on the Commission.

Application Procedure

- **Site Inspections**

Site inspections on properties for which an application has been submitted are scheduled at the discretion of the Commission. If the Areas Subject to Protection on the permitted property cannot be adequately viewed (for example, during periods of snow cover or when vegetation is not present), the Commission may determine that the Application is incomplete until the conditions change such that a meaningful site inspection can be conducted.

Performance Standards and Restrictions

- **Security**

The Commission may require, as a permit condition, that the performance and observance of the Order of Conditions by one or both of the following methods:

- **Bond**

By a bond or deposit of money or negotiable securities in an amount and form determined by the Commission to be sufficient to secure the completion of all conservation measures specified in their Order of Conditions and the Commission may require that the applicant specify the time within which such construction shall be completed.

The penal sum of any such bond shall bear a direct and reasonable relationship to the expected costs, including the effects of inflation, necessary to complete the sub-work. Such amount or amounts shall be from time to time reduced as is, in the determination of the Commission, necessary to reflect the actual expected costs of the work remaining to be completed.

- **Covenant**

By a covenant, executed and duly recorded by the owner of record, running with the land where by such conservation measures, as are stated in the Order of Conditions, shall be provided before any lot may be built upon or conveyed.

The deposit of monies, negotiable securities, bond, or covenant shall, in the case of the bond be given to the Town Treasurer, and in the case of a covenant, be recorded in the Registry of Deeds or Land Court, as the case may be, within 14 days of the granting of the Order of Conditions.

- **Sequence of Construction**

The Applicant shall provide a detailed sequence of construction to the Commission in the Application as part of the standard filing requirements. Said sequence shall be followed by Applicant, unless amended and approved by the Commission.

- **Advice from the Commission**

The Commission may offer suggestions and advice for altering plans and proposals to reduce impact on wetland values and functions toward the goal of modifying the project to make it acceptable. However, the Commission is not obligated to do so and shall not be bound in its decision-making by any prior suggestions or advice offered to applicants.

- **Plans and Application Requirements**

A. Plans need to describe the proposed activity and its effect on the environment. Plans shall show all natural features such as large trees, waterways and water bodies, wildlife habitats and similar assets.

(1) The following items are minimal standards. The applicant maybe required to submit further information that will assist the Commission in their review and deemed necessary to determine the proposed effect on the interests protected by the Bylaw. The Conservation Commission may waive any of these plan requirements it deems insignificant or irrelevant for a particular project.

(2) Plans should be submitted no smaller than 11 x 17 in size, with one full set of plans being submitted in color. In a scale ratio no greater then 1:40.

(3) Plans and application shall be submitted as a hard copy and in digital format

B. Plan content

(1) The following information shall be provided.:

(a) The names and addresses of the record owner(s), the applicant(s) and of all abutters as determined by the most recent local tax list, unless the applicant have a more recent knowledge of such abutters.

(b) Description of any alteration to flood storage capacity on the site. Include calculations and watershed maps if necessary.

(c) Soil characteristics in representative portions of the site.

(d) Methods to be used to stabilize and maintain any embankments facing any wetlands, or show slope on plans of less than or equal to 3 to 1.

(e) Methods to control erosion during and after construction.

C. Plan specifications

(1) Drawings for a Notice of Intent, Request for Resource Area Delineation and Abbreviated Notice of Intent shall be drawn to scale (one-inch equals 40 feet maximum) with the title designating the name of the project, location, the name(s) of the person(s) preparing the drawings and the date prepared, including all revision dates.

(2) The Commission may require plans and calculations be prepared and stamped by a registered professional engineer or a registered land surveyor of the Commonwealth of Massachusetts, the Commission may waive this requirement if they feel the proposed work does not warrant such a professional certification. The Commission may also require preparation and submission of supporting materials by other professionals including, but not limited to, registered landscape architect, environmental scientist, geologist or hydrologist. Submission of requested materials does not imply approval of the project.

(3) Drawings must include the boundary and location of all Resource Areas protected by the Bylaw on the project site and within 100 feet, regardless of whether or not the applicant believes the work is subject to M.G.L. c. 131, Section 40, the Wetlands Protection Act or the Ayer Wetlands Bylaw

(4) Alterations

(a) Drawing must include a delineation of all alterations proposed in or adjacent to all Resource Area as indicated below:

- i. Area to be dredged
- ii. Area to be filled
- iii. Area to be altered in any other way

(b) All alterations should be clearly explained in text or footnotes.

(5) All drawings shall show the distance twenty-five (25), fifty (50), and one-hundred (100) feet from the resource areas including river front, and vernal pools

(6) Calendar dates of measurements, samplings, contours and so forth should appear with such data. Contour intervals shall be no greater than two feet.

(7) Indicate locations, sizes, and slopes of existing slopes and proposed culverts and pipes as well as discharge points

(8) Include cross-section of all wetlands, showing slopes, bank and bottom treatments for wetland creation or replication.

(9) Indicate existing stonewalls, fences, buildings, historic sites, rock ridges, and outcroppings.

(10) Indicate all existing trees greater than 6" caliper diameter at a height of 5 feet above exiting ground located within 25 feet of the proposed work area on the plan.

- (11) Pre and Post-development overstory tree canopy line within the proposed work area.
- (12) Indicate property boundaries, rights-of-way, easements and restrictions
- (13) Indicate proposed on-site pollution control devices, such as catch basins, oil absorption pillows, detention/retention basins, or vegetated buffers.
- (14) Show location and details of all erosion controls.
- (15) Assessors Map and Lot number(s)
- (16) If location is within an Area of Critical Environmental Concern, Natural Heritage Priority Habitat or Flood Plan it should be indicated on the plan.