

General Instructions For All Drawings

Required drawings:

- Site location map** that clearly identifies your project location. Draw a map, copy a plat map or a county map, or create a map using the Internet (see Sample Drawing 1).
- Overall site plan** showing areas of proposed impacts, existing lakes, streams, wetlands, *floodplains*, and other water features. Include name of waterbodies, property boundaries and corners, easement boundaries, neighboring property owner information, and *soil erosion and sedimentation control measures*.
- Plan view and cross-section** (elevation) drawings that are site-specific and adequate for detailed review. Show both existing and proposed conditions (see Sample Drawings 2 through 23).

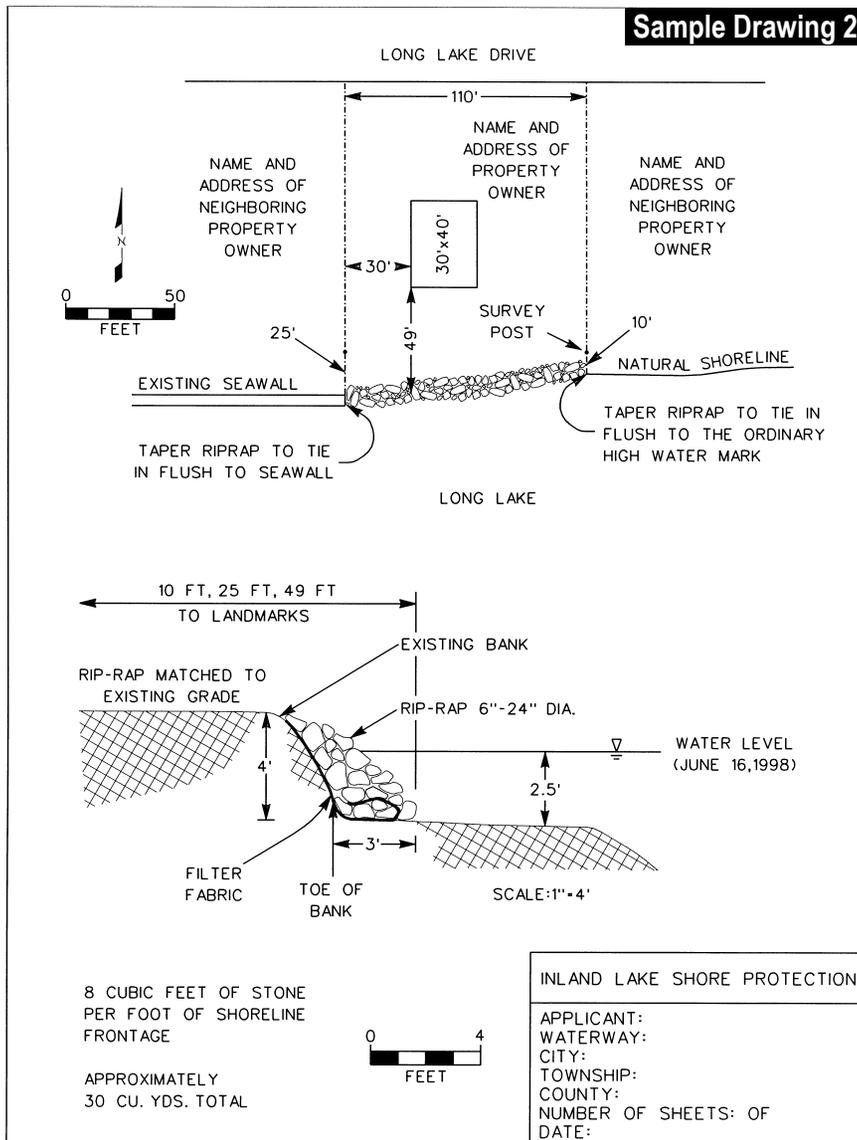
All drawings should:

- Be legible and clearly labeled on standard weight paper of 8-1/2 x 11-inch size. If drawings are engineering plans larger than 8-1/2 x 11, submit a minimum of five copies.
- Title block on each drawing which includes: proposed activity; applicant's name; waterbody; city, village or township; county; drawing number and number in set (i.e., Drawing 1 of 4), and date prepared.
- Reference a datum (NGVD 29 or IGLD 85) if the proposed project is on *Section 10 Waters*.
- Be drawn to scale with the scale identified on each drawing. Show vertical scale if different than horizontal scale on each drawing.
- All plan view drawings should include a north arrow.
- Label all existing and proposed relevant features and dimensions relative to those features, especially those that correspond to questions on the application form.
- Include soil erosion and sedimentation control measures.

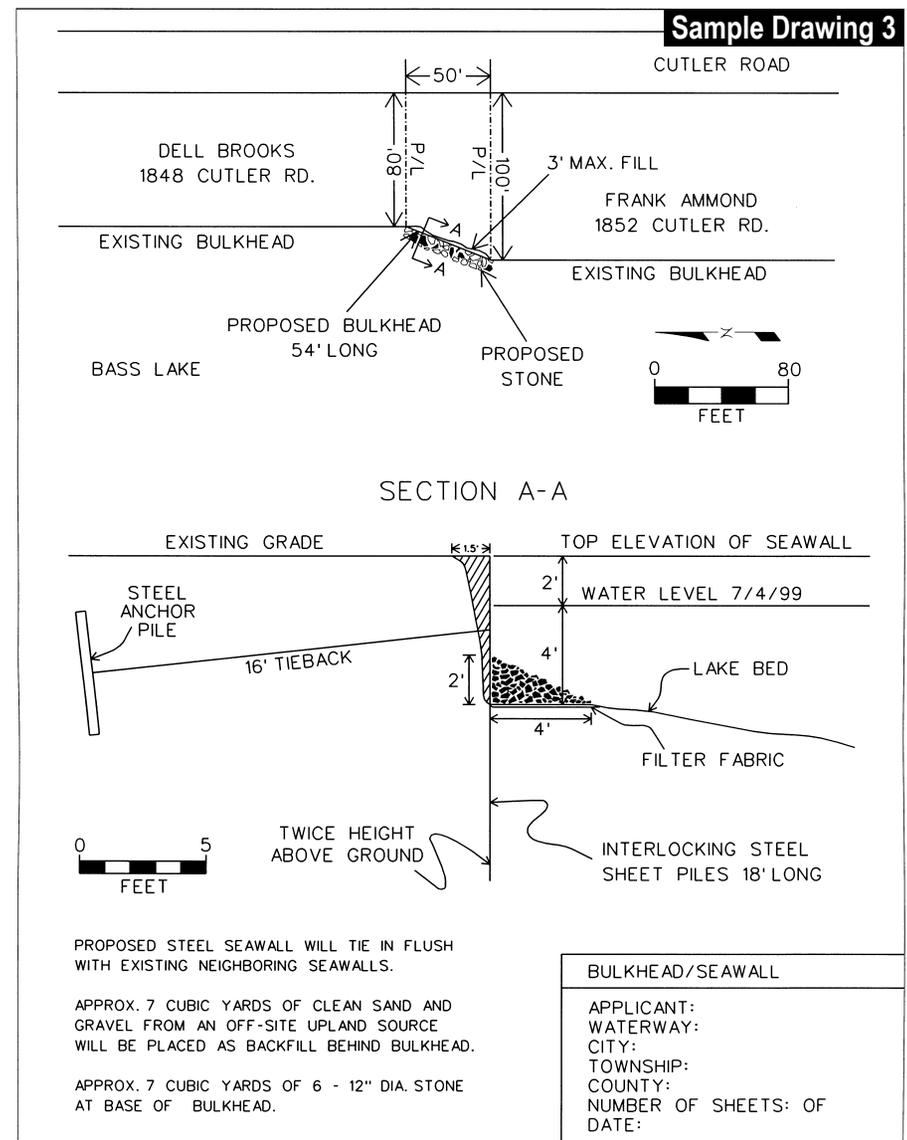
NOTE: To calculate volume in cubic yards (cu yd), multiply the average length in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27.

Sample Drawing 1	
<p style="font-size: 1.2em; font-weight: bold;">Center Township Emmet County</p> <p style="font-size: 1.5em; font-weight: bold;">Lark's Lake</p> <p>2nd house from end of road</p> <p>Van Rd.</p> <p>Lark's Lake Rd.</p>	<p style="font-size: 1.2em; font-weight: bold;">CONWAY L.</p> <p>Huron Mountain Club</p> <p>First Mary Co.</p> <p>Hugh Drury et al. C.F.R. 430.2</p> <p>Longyear Realty Corp. C.F.R. 5.35</p> <p>Trout R.</p> <p>Salmon R.</p> <p>Marquette County, Mich</p>
Site location map using a hand-drawn map that is clearly labeled	Site location map using a copy of a county plat book

Sample Drawing 2



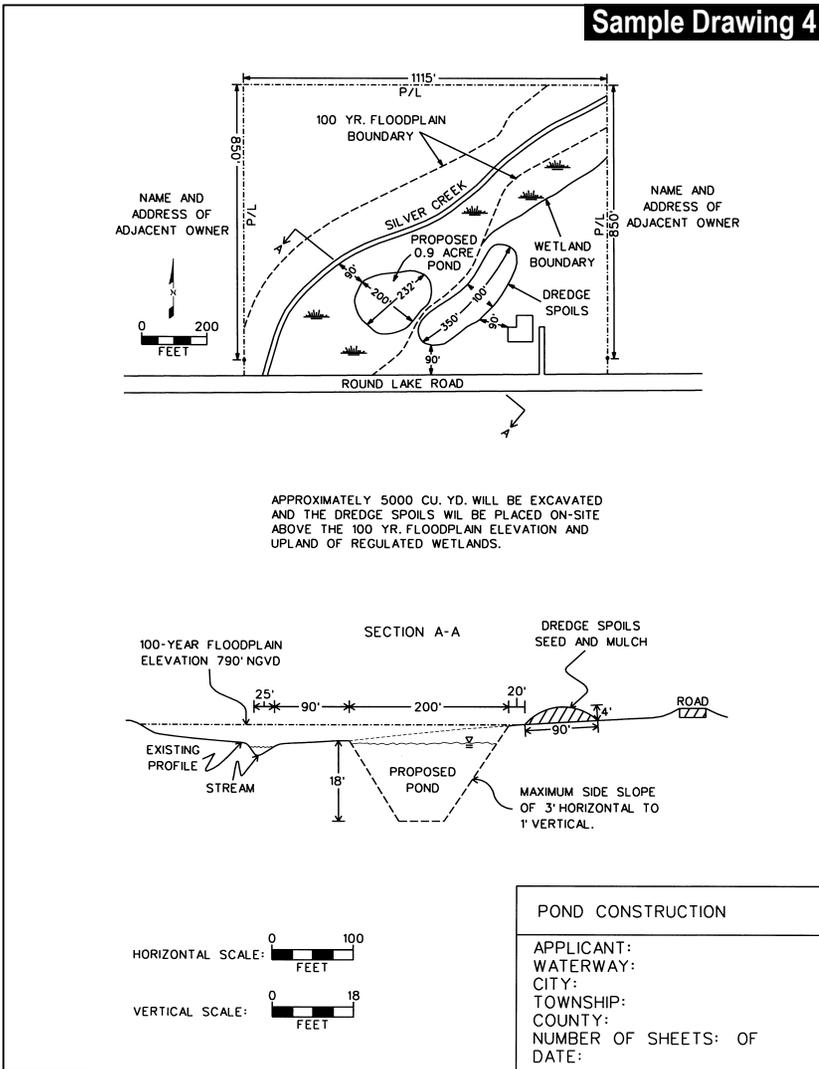
Sample Drawing 3



- Complete **Section 10D** and **Sections 10A, 10B, 10C, 12, and 13** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Name of waterbody, neighboring property owner information, and property boundaries and corners.
 - Existing and proposed conditions along the *shoreline* at your project location.
 - Existing conditions and/or structures along the *shoreline* for each adjacent parcel.
 - Dimensions from fixed objects to property boundaries and the proposed shore protection.
 - Length (ft), volume (cu yd) and type (i.e., field stone, angular rock, etc.) of *riprap*.
 - Locations of *filter fabric* and *soil erosion and sedimentation control measures*.
 - Observed water level and date of observation and datum (NGVD 29 or IGLD 85 on *Section 10 Waters*).
 - Minimum and maximum distances landward and waterward of proposed shore protection to the existing *shoreline* or ordinary high water mark.

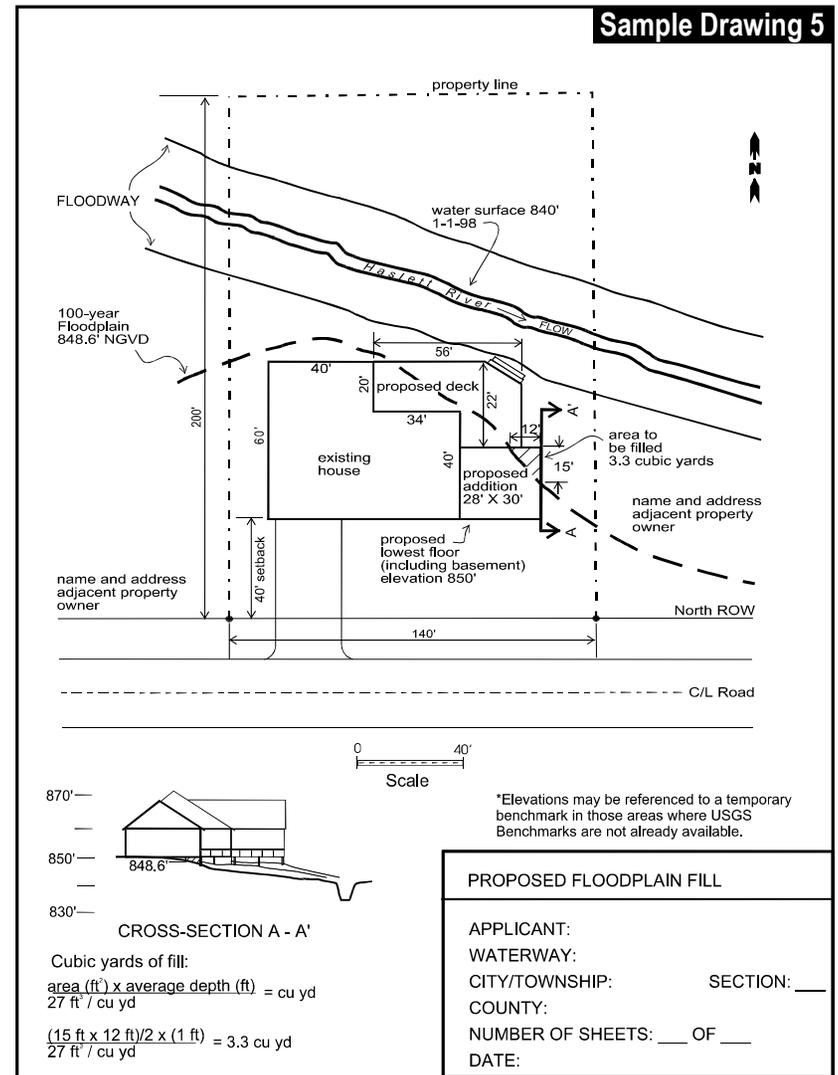
- Complete **Section 10D** and **Sections 10A, 10B, 10C, 12, and 13** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Name of waterbody, neighboring property owner information, and property boundaries and corners.
 - Existing and proposed conditions along the *shoreline* at your project location.
 - Existing conditions and/or structures along the *shoreline* for each adjacent parcel.
 - Dimensions from fixed objects to property boundaries and the proposed shore protection.
 - Length of *seawall/bulkhead* and return wall (ft). If *structure* will be tied into adjacent walls, show how.
 - Locations of *filter fabric* and *soil erosion and sedimentation control measures*.
 - Type of construction material (i.e., wood, steel concrete, vinyl, etc.).
 - Observed water level and date of observation and datum (NGVD 29 or IGLD 85 on *Section 10 Waters*).
 - Minimum and maximum distances landward and waterward of proposed shore protection to the existing *shoreline* or ordinary high water mark.

Sample Drawing 4

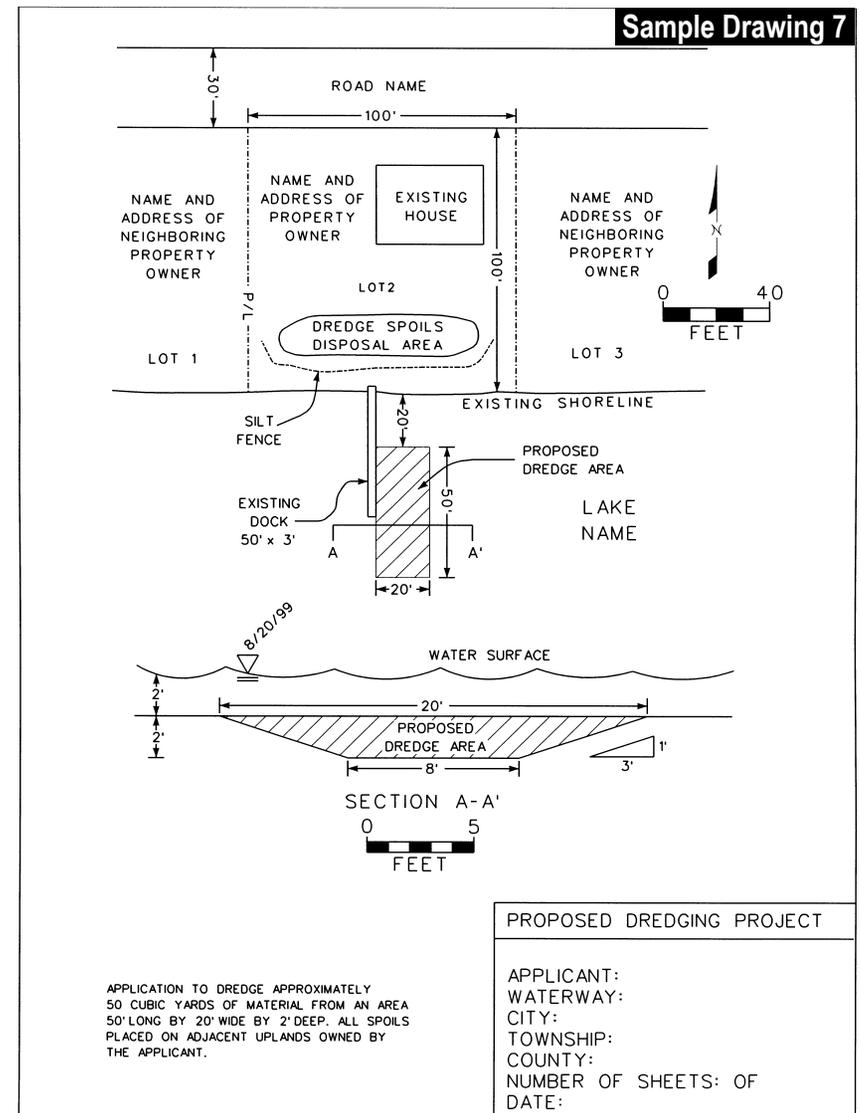
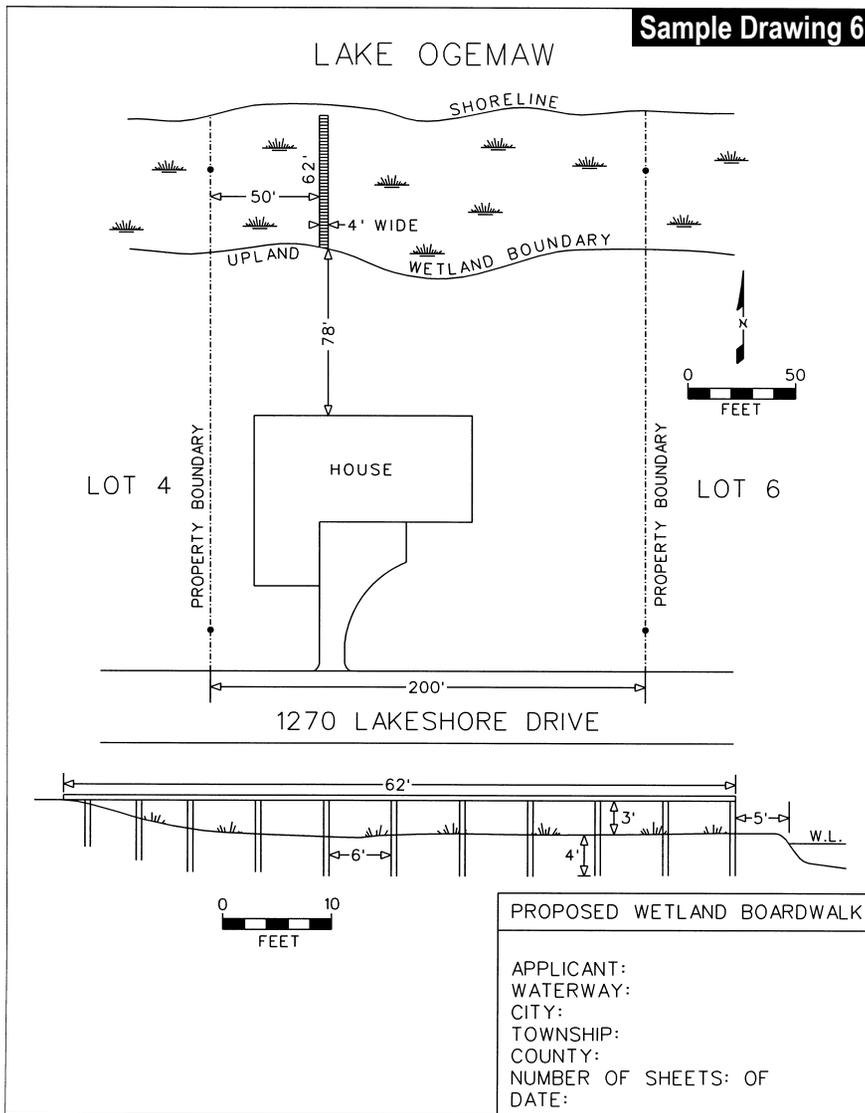


- Complete **Section 11** and **Sections 10A, 10B, 10C, 12, and 13** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, and other water features.
 - Waterbody names, property boundaries and corners, and neighboring property owner information. Please include property owner information for upstream and downstream adjacent parcels.
 - Existing and proposed conditions in the area of proposed pond.
 - Maximum depth, maximum and typical side slopes at edge of pond (vertical/horizontal), pond surface area, and dimensions and distances of proposed pond and spoils disposal area from fixed objects and property boundaries. Spoils should be placed above the 100-year floodplain elevation and upland of regulated wetlands. If off-site disposal is planned, please provide a detailed description of the location.
 - Soil erosion and sedimentation control measures.
 - Water levels and dates of observation in nearby surface water and at proposed pond location.
 - Datum (NGVD 29, IGLD 85 or local) and dredge volume (cu yd).
 - If pond will have a surface water outlet show on plan and cross-section drawings.

Sample Drawing 5

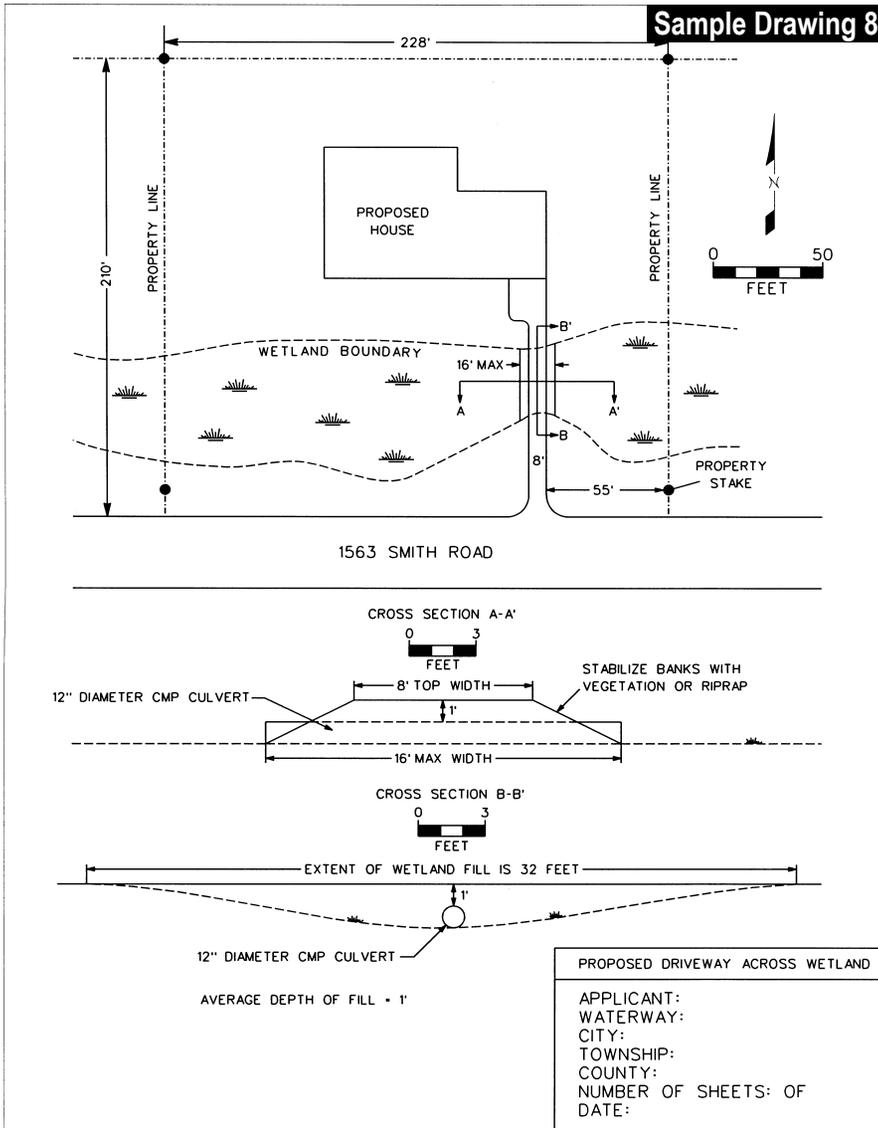


- Complete **Section 13** and **Sections 10A, 10B, 10C, and 12** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, and other water features.
 - Waterbody names, property boundaries and corners, neighboring property owner information, and soil erosion and sedimentation control measures.
 - Datum used (NGVD 29 or IGLD 85).
 - 100-year floodplain elevation (if known). Proposed basement floor and finished first-floor elevations (ft).
 - Description of reference point and highest known water elevation (ft) above or below reference point and date of observation (M/D/Y).
 - Existing and proposed building dimensions and minimum and maximum distances of proposed cut and or fill from waterbodies, wetlands, and floodplain boundaries (ft).
 - Proposed and existing contours on a site development plan that show compensating cut for proposed fill in the floodplain.
 - Dredge and or fill volumes (cu yd).

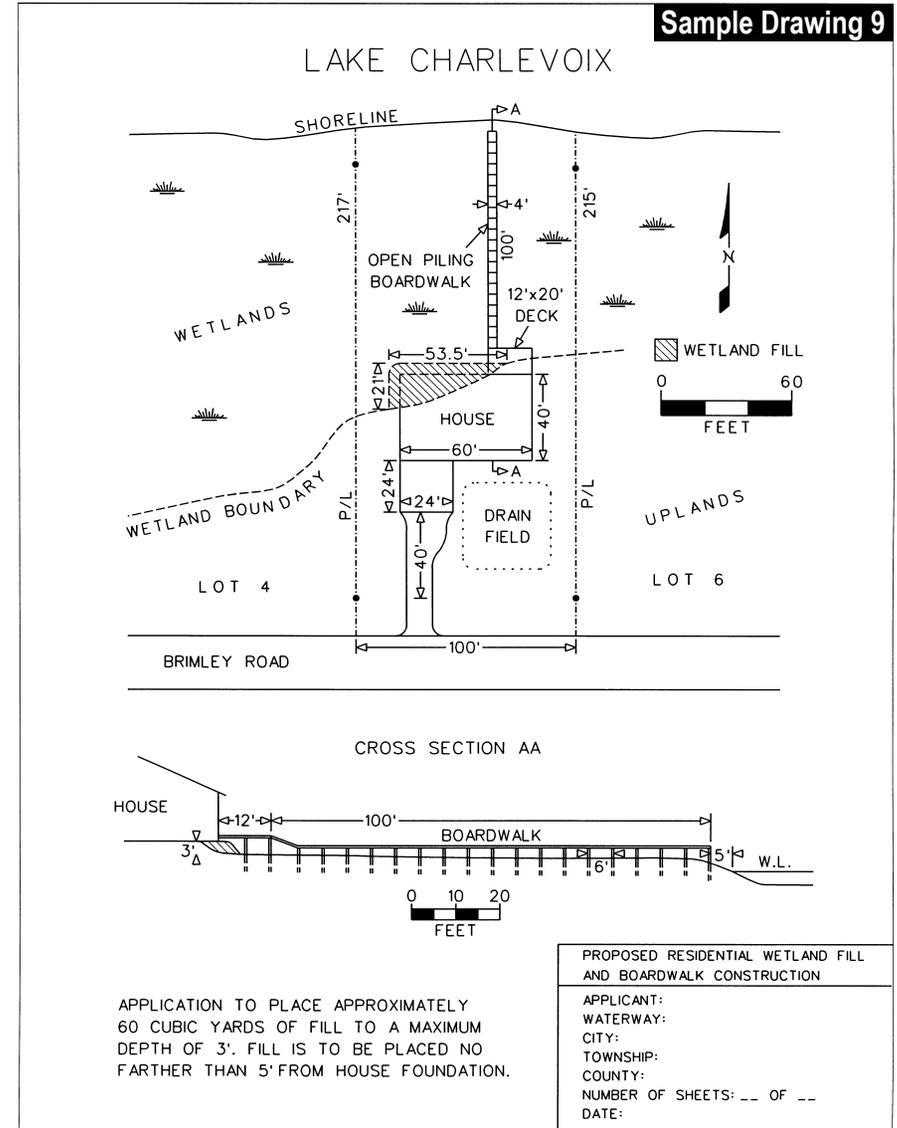


- Complete **Sections 10I and 12** and **Sections 10A, 10B, 13, and 21** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
 - Name of waterbodies, property boundaries, and neighboring property owner information.
 - The boardwalk or deck dimensions in feet (height, width, and length).
 - In cross-sectional view show the maximum and minimum height of boardwalk above existing ground and the supporting system (i.e. fill or pilings).
 - Distance from end of boardwalk to *shoreline* or ordinary high water mark.
 - The existing and proposed building dimensions and minimum and maximum distances of proposed cut and or fill from waterbodies, wetlands, and floodplain boundaries (ft).
 - The observed water elevation and date of observation (M/D/Y).
 - Datum (NGVD 29 or IGLD 85 on *Section 10 Waters*).
 - Soil erosion and sedimentation control measures*.

- Complete **Sections 10B** and **Sections 10A, 12, 13, and 21** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
 - Name of waterbodies, property boundaries, and neighboring property owner information.
 - The dredge spoils disposal area location in an upland area above the 100-year floodplain. If spoils will be disposed of off-site, attach a detailed location. Sediment sampling may be required.
 - The location and dimensions of existing or proposed *docks* or *piers*.
 - The maximum and average dredge dimensions (ft) in both plan and cross-section views. Calculate dredge volume (cu yd) by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
 - The observed water elevation and date of observation (M/D/Y).
 - Datum (NGVD 29 or IGLD 85 on *Section 10 Waters*).
 - Soil erosion and sedimentation control measures*.

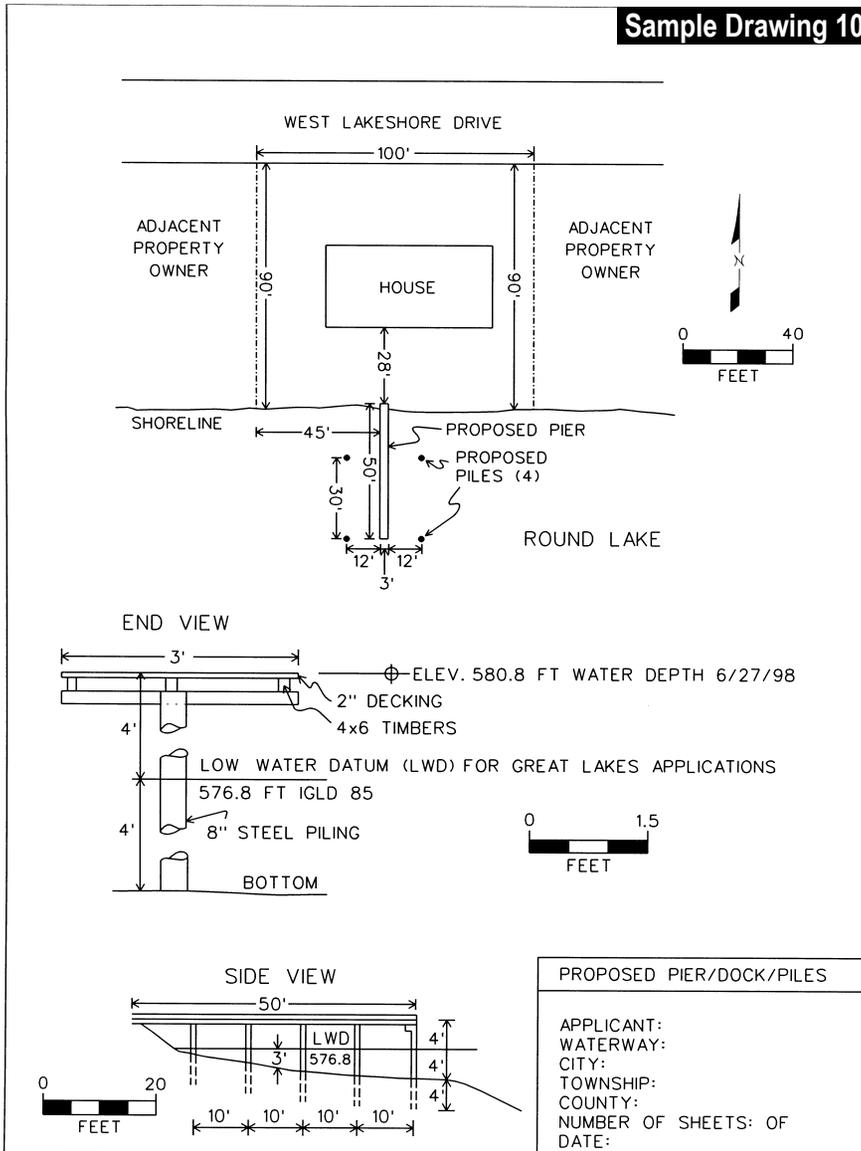


- Complete **Sections 10A, 10B, 10C, 12, 13, and 14** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- An overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
 - Name of waterbodies, property boundaries, and neighboring property owner information.
 - Choose the crossing location to provide for minimum impact to the wetland.
 - The length, diameter, and type of culvert that is proposed.
 - The volume of fill in cubic yards by multiplying average (depth) x (width) x (length) and dividing by 27.
 - Method of bank stabilization at the culvert ends.
 - The dimensions for maximum depth and maximum extent of fill. Include dimensions from fixed objects and property boundaries to wetland fill area.
 - Soil erosion and sedimentation control measures*, if within 500 feet of a lake or stream.



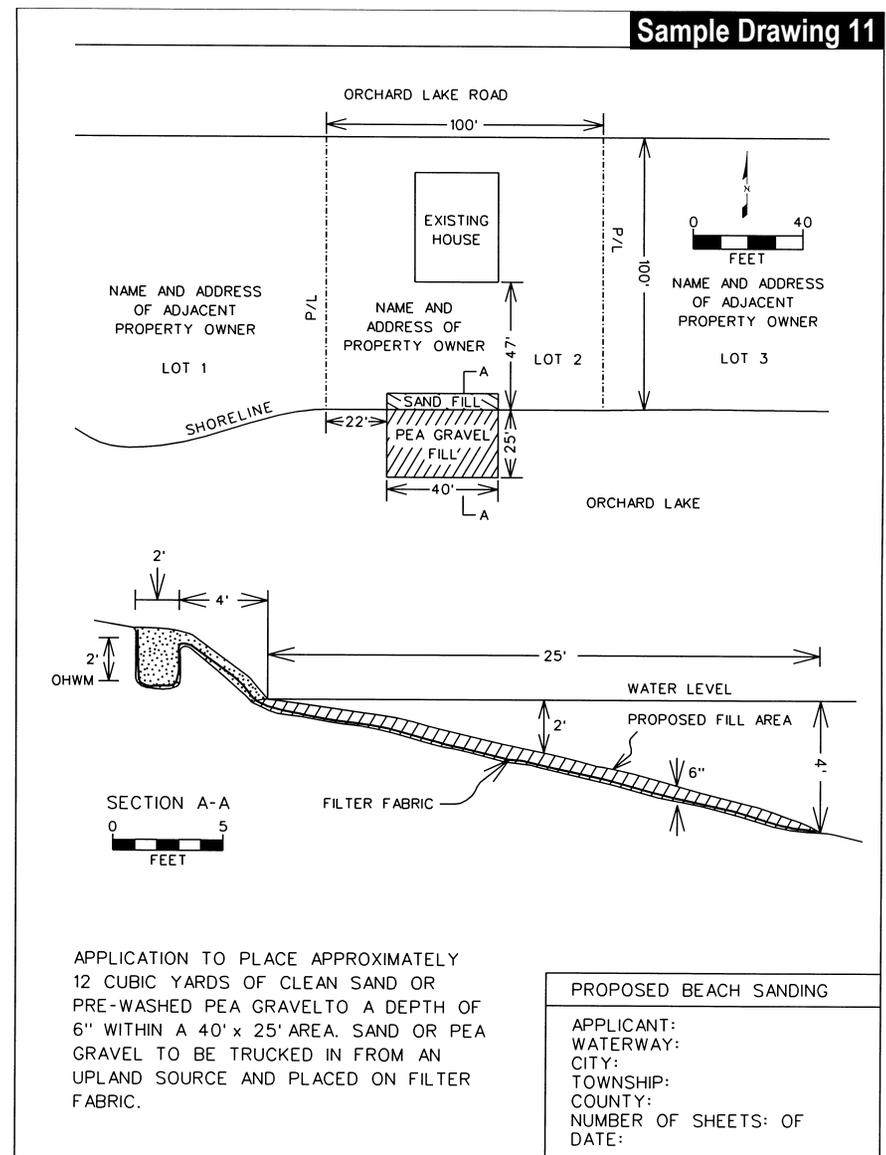
- Complete **Sections 10A, 10B, 10C, 12, 13, and 14** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- An overall site plan showing existing lakes, streams, wetlands, *floodplains* and other water features.
 - Name of waterbodies, property boundaries, and neighboring property owner information.
 - Site location plan that provides for minimum impact to the wetland.
 - The dimensions for maximum depth and maximum extent of fill. Include dimensions from fixed objects and property boundaries to wetland fill area.
 - The fill volume (cu yd) calculated by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
 - Soil erosion and sedimentation control measures*.
 - Observed water elevation, date of observation (M/D/Y).
 - Datum (*IGLD 85* or *NGVD 29* on *Section 10 Waters*).

Sample Drawing 10



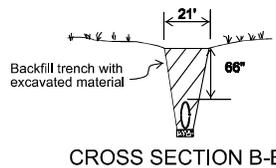
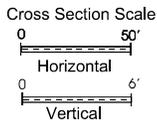
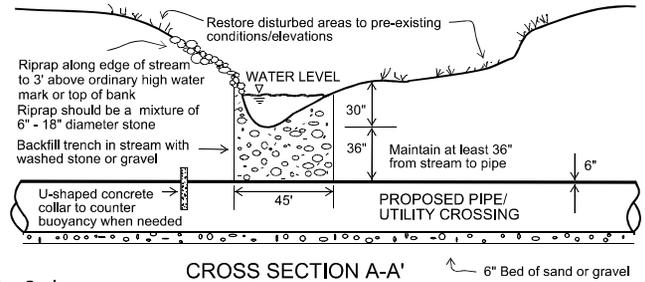
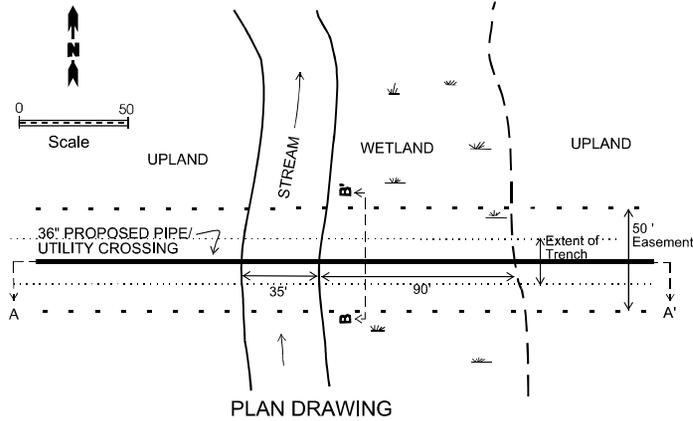
- Complete **Sections 10A, 10B, 12, 13, and 21** if applicable to your project.
 Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Name of waterbody, neighboring property owner information, property boundaries, and distances to adjacent property lines from proposed dock.
 - Observed water elevation and date of observation (M/D/Y).
 - Datum used (IGLD 85 or NGVD 29 on Section 10 Waters).
 - Dimensions from fixed objects to property boundaries and the proposed pier, dock, or piles.
 - Existing conditions along the shoreline for each adjacent parcel.
 - Dimension of existing structures for each adjacent parcel
 - Material used for construction of pier, dock, and or piles.

Sample Drawing 11



- Complete **Sections 10A, 10B, 10C, and 12** if applicable to your project.
 Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, floodplains, and other water features.
 - Name of waterbodies, property boundaries, and neighboring property owner information.
 - Dimensions of an existing or proposed house, dock, or other structures from the proposed sanding area and property boundaries.
 - The maximum and average fill dimensions (ft) in both plan and cross-section views. Calculate fill volume (cu yd) by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
 - The observed water level, date of observation (M/D/Y) and datum, if used (NGVD 29 or local).
 - The extent of filter fabric, if used, and how the filter fabric will be grounded.
 - Soil erosion and sedimentation control measures.
 - Source of clean sand or pre-washed gravel.

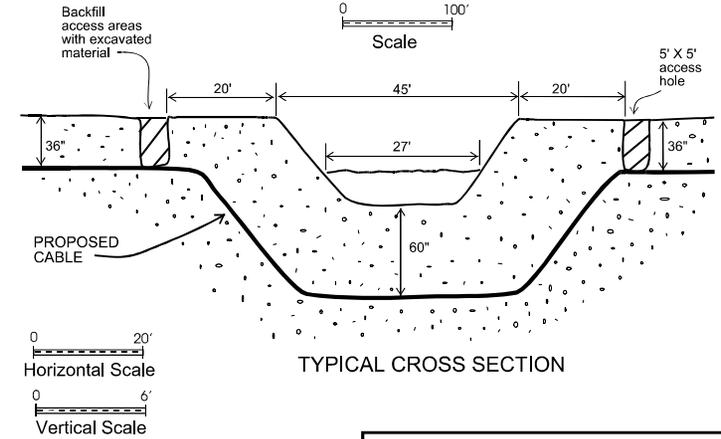
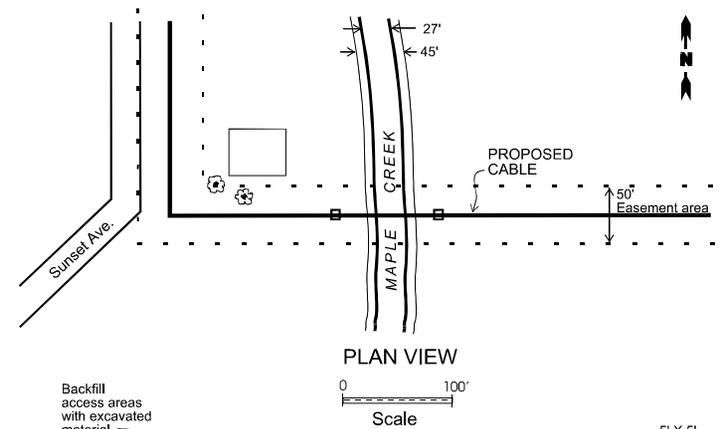
Sample Drawing 12



PROPOSED PIPE/UTILITY CROSSING IN A TRENCH

APPLICANT:
 WATERWAY:
 CITY/TOWNSHIP:
 COUNTY:
 NUMBER OF SHEETS: ___ OF ___
 DATE:

Sample Drawing 13



PROPOSED DIRECTIONAL BORE STREAM CROSSING

APPLICANT:
 WATERWAY:
 CITY/TOWNSHIP: SECTION: ___
 COUNTY:
 NUMBER OF SHEETS: ___ OF ___
 DATE:

Complete **Section 18** and **Sections 10A, 10B, 10C, 12, and 13** if applicable to your project.

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
- Name of waterbodies, property boundaries, easement boundaries, neighboring property owner information, *soil erosion and sedimentation control measures* and datum used (NGVD 29 or local).
- Location and dimensions (ft) of proposed excavation in both *plan* and *cross-section* views. Calculate excavation volume (cu yd) by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
- Location of disposal area in upland above the 100-year *floodplain*. If spoils will be disposed of off-site attach a detailed location. If temporary sidcasting, show location and dimensions.
- Proposed backfill material and source.
- Proposed installation method (i.e., *flume*, plow, open trench).
- Pipe diameter, length, and distance below streambed for each crossing.
- Purpose of crossing (i.e. sanitary sewer, storm sewer, watermain, cable, oil/gas pipeline, etc.)

Complete **Section 18** and **Sections 10A, 10B, 10C, 12, and 13** if applicable to your project.

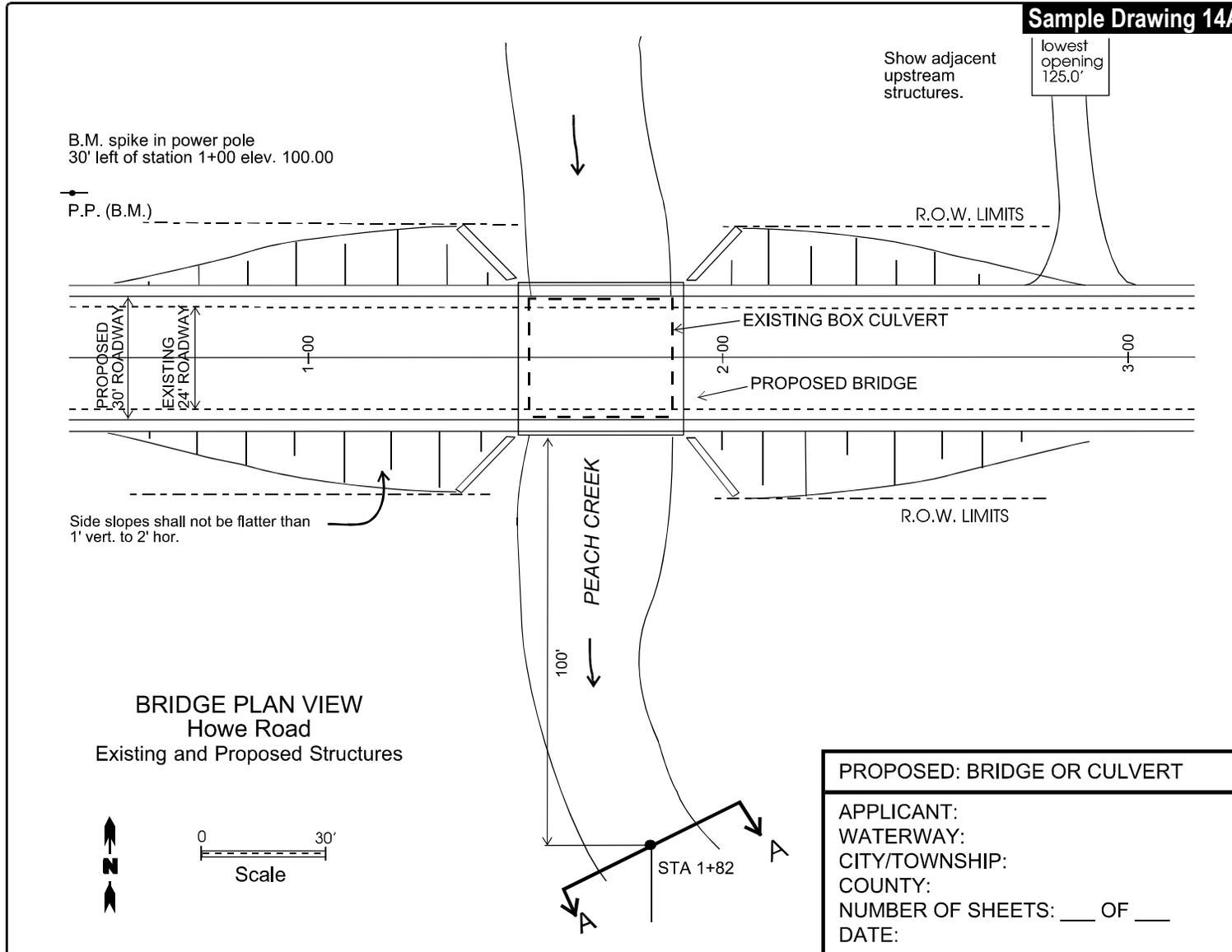
Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
- Name of waterbodies, property boundaries, easement boundaries, neighboring property owner information, and *soil erosion and sedimentation control measures*.
- Excavation dimensions (ft) for drilling or boring inlet and outlet points in both *plan* and *cross-section* views. Calculate excavation volume (cu yd) by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
- Proposed construction method (i.e., jack and bore or directional drill).
- Pipe diameter, length, and distance below streambed for each crossing.
- Purpose of crossing (i.e. sanitary sewer, storm sewer, watermain, cable, oil/gas pipeline, etc.)

Proposed Bridges and Culverts:

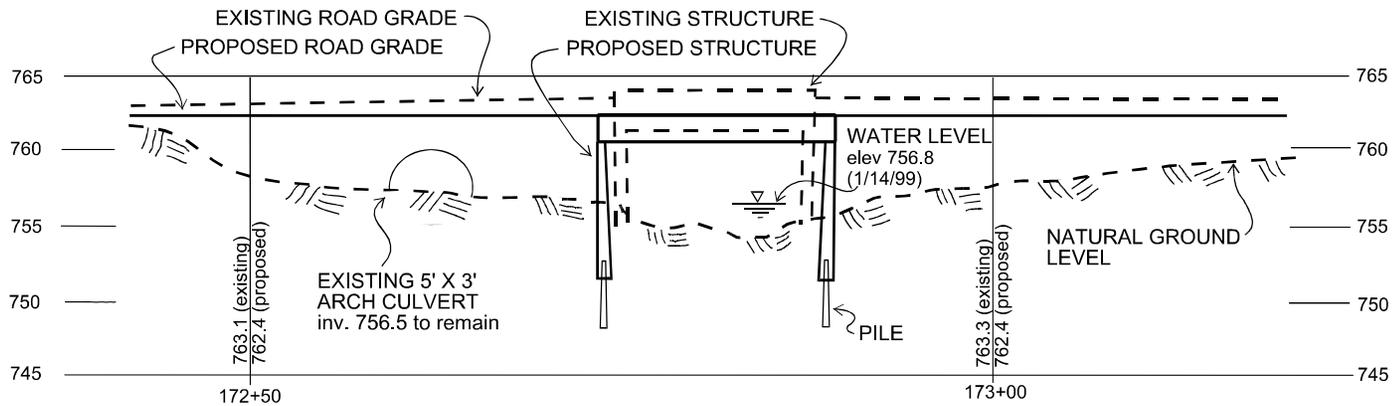
Complete **Section 14** and **Sections 10A, 10B, 10C, 12, 13, and 15** if applicable to your project.

- Provide an overall site plan showing existing lakes, streams, wetlands, and other water features. Include name of waterbodies, property boundaries, and neighboring property owner information.
- Provide detailed site-specific drawings of existing **and** proposed *Plan View* (Sample Drawing 14A), *Elevation View* (Sample Drawing 14B), *Stream and Floodplain Cross-Sections* (Sample Drawing 14C), and *Stream Profile* (Sample Drawing 14D) adequate for detailed review.
- If your project includes *floodplain* fill complete **Section 13** and include a site-specific drawing (See Sample Drawing 5).

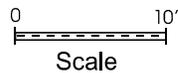


Bridge or Culvert Plan View

- Existing and proposed *structures* and approaches.
- Property boundaries and or right-of-ways (ROW).
- Description of reference point and datum used (NGVD 29, IGLD 85 or local).
- Location of *cross-section* or elevation views.
- Soil erosion and sedimentation control measures*.



BRIDGE ELEVATION VIEW
Existing and Proposed Structures



Elevations in Feet

PROPOSED: BRIDGE OR CULVERT

APPLICANT:
WATERWAY:
CITY/TOWNSHIP:
COUNTY:
NUMBER OF SHEETS: ___ OF ___
DATE:

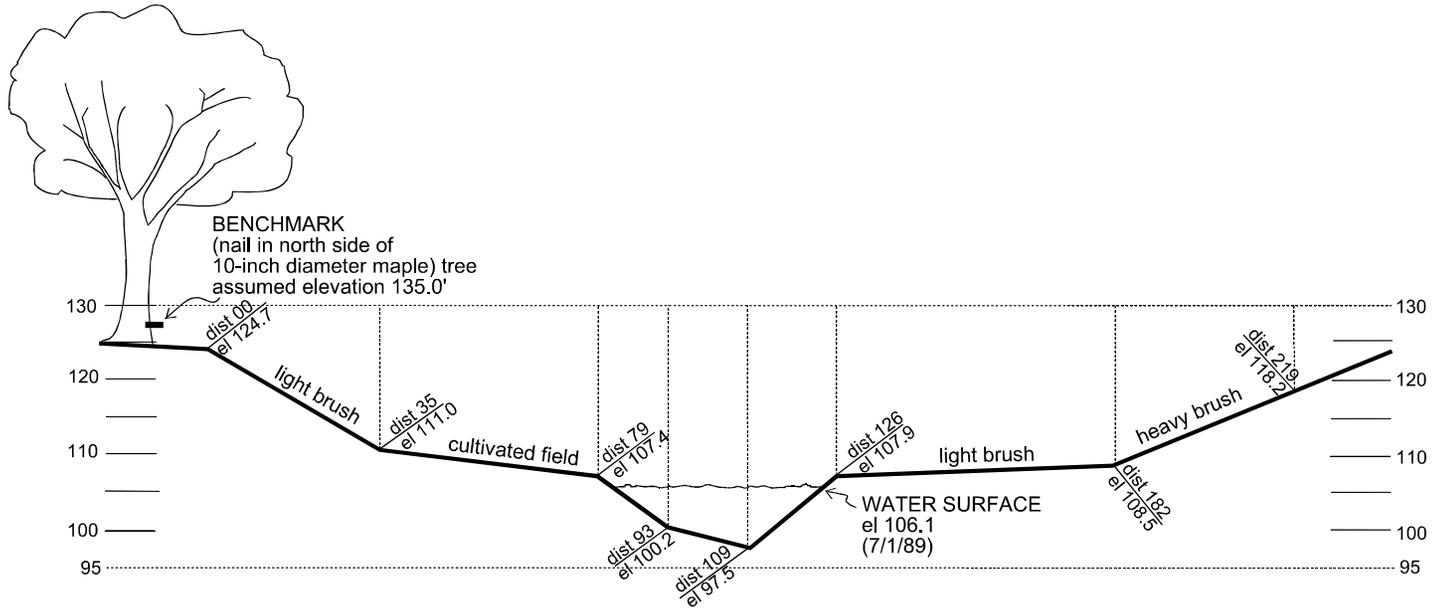
Bridge or Culvert Elevation View

- Observed and highest known water elevations (ft) and dates of observations (M/D/Y).
- 100-year floodplain elevation (if known).
- Basement floor and finished first-floor elevations (ft) of nearby homes and buildings.
- Elevation of ordinary high water mark (OHWM).

Existing and proposed:

- Structure elevations.
- Road grade and elevation of low points in road.
- Distance from low point of road to mid-point of structures.
- Upstream and downstream elevations (ft) of culvert crown or bottom of bridge beam.
- If culvert, higher elevation of pipe invert or streambed within pipe.

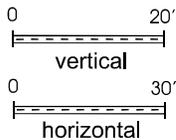
Sample Drawing 14C



CROSS-SECTION A - A
(Looking Downstream)

Cross-section downstream of proposed replacement structure
typical to the watercourse involved
and taken perpendicular to flood flows

Scale



Elevations in Feet

el = grade point elevation in reference
to the assumed benchmark

Stream and Floodplain

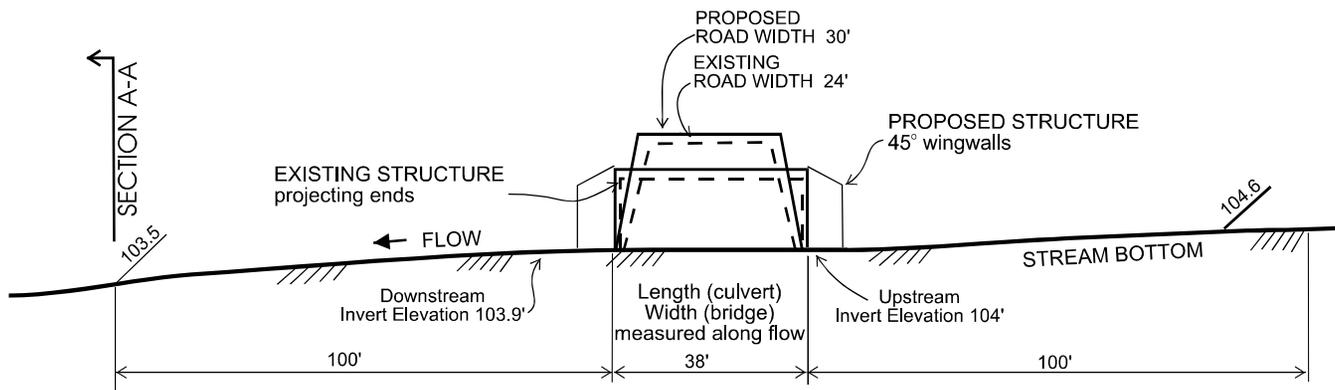
Cross-Section View

- All proposed projects need to provide the channel dimensions.
- Description of reference point and datum used (NGVD 29, IGLD 85, or local).
- Highest known and observed water elevations (ft) and dates of observations (M/D/Y).
- 100-year floodplain elevation (if known).
- Descriptions of overbank vegetative cover within the floodplain.
- Elevation of ordinary high water mark (OHWM).
- If upstream channel and overbank dimensions and/or vegetative cover differ significantly from the downstream conditions also provide an upstream cross-section.

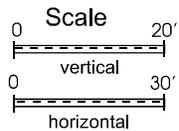
EXISTING & PROPOSED CROSS-SECTION

APPLICANT:
WATERWAY:
CITY/TOWNSHIP:
COUNTY:
NUMBER OF SHEETS: ___ OF ___
DATE:

Sample Drawing 14D



STREAM PROFILE VIEW
Existing and Proposed Structure,
Invert Elevations and End Treatment



PROPOSED: BRIDGE OR CULVERT

APPLICANT:
WATERWAY:
CITY/TOWNSHIP:
COUNTY:
NUMBER OF SHEETS: ___ OF ___
DATE:

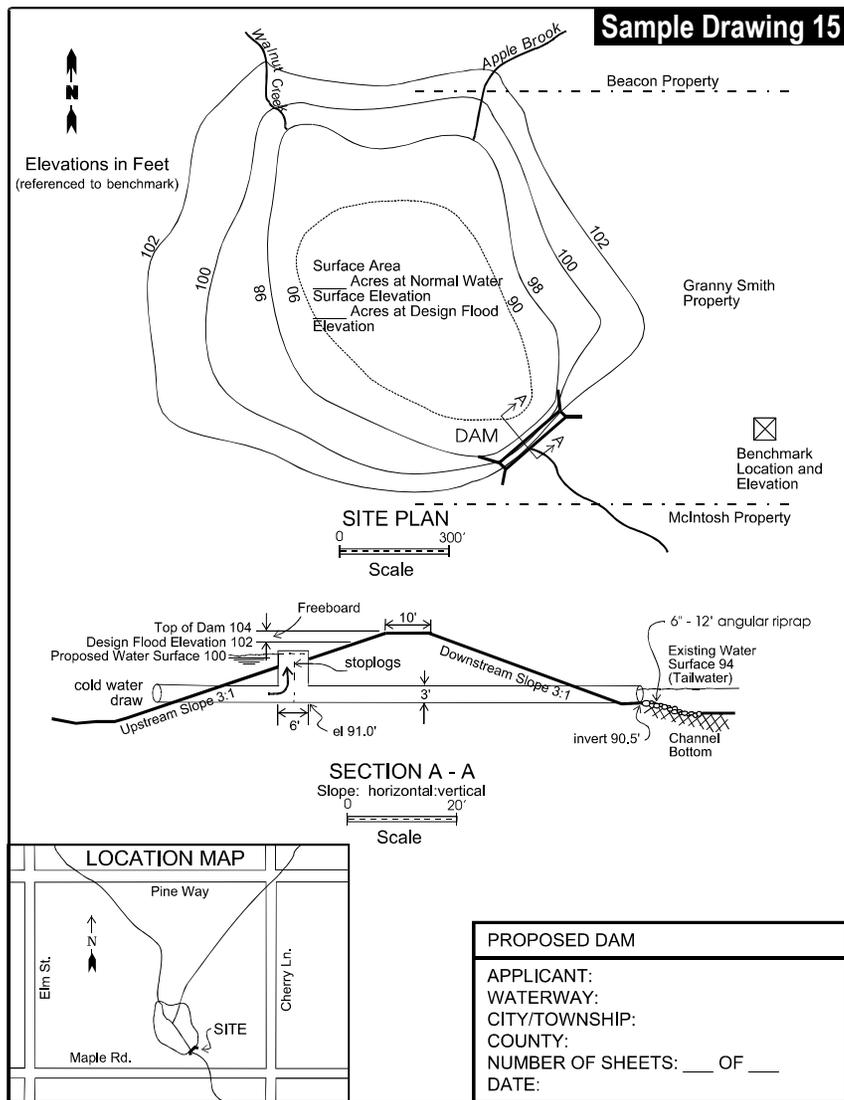
Stream Profile View

- Datum used (NGVD 29, IGLD 85, or local).
- Location of cross-sections.

Show existing and proposed:

- Road width and culvert length or bridge width (ft).
- Upstream and downstream invert elevations (ft)
- 100-year floodplain profile (if known).

Sample Drawing 15



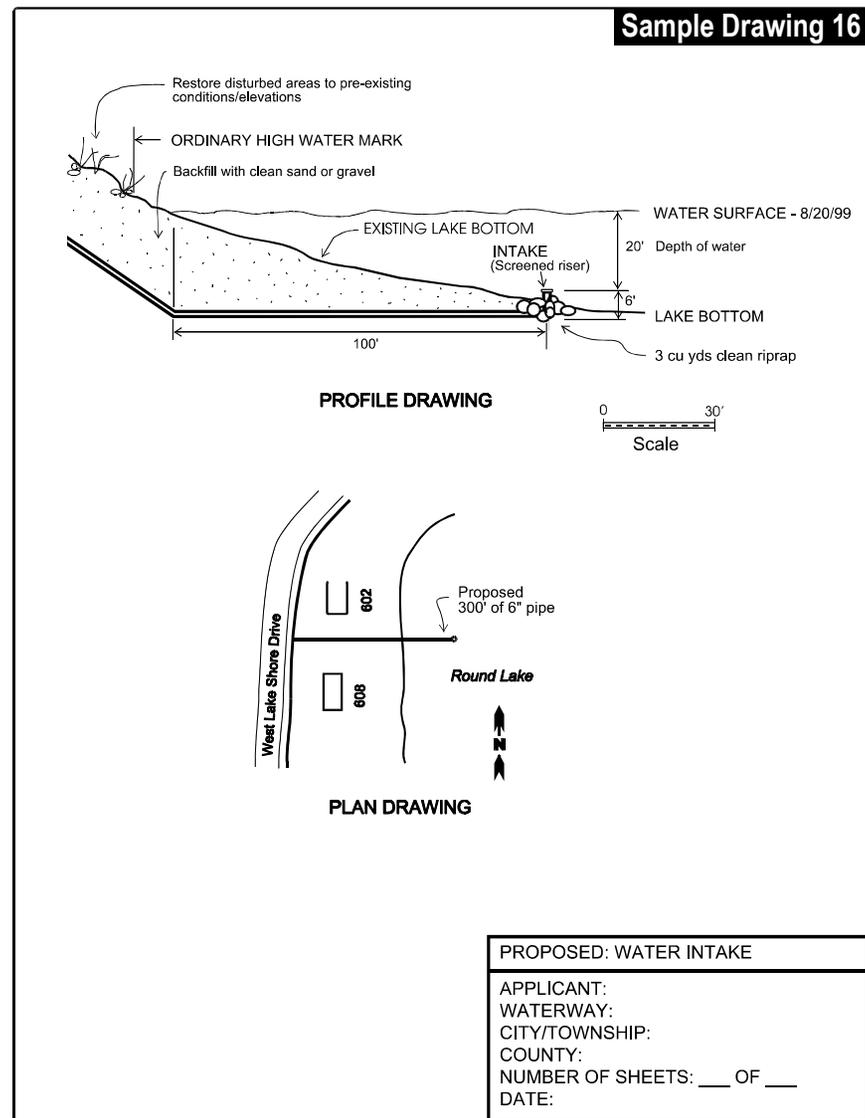
Complete **Section 17** and **Sections 10A, 10B, 10C, 11, 12, 14, and 16** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
- Name of waterbodies, property boundaries, and neighboring property owner information.
- Highest known and observed water elevations (ft) and dates of observations (M/D/Y).
- Datum used (IGLD 85, NGVD 29, or local) and a description of the reference point or benchmark.
- Elevation of low point in top of embankment excluding spillways.
- Soil erosion and sedimentation control measures*.

For a new dam include:

- Embankment top elevation and streambed elevation at downstream embankment toe.
- Structural height (embankment top elevation minus streambed elevation at downstream toe).
- Embankment length, top width, bottom width, and upstream and downstream *slopes* (vert./horiz.).
- Proposed normal pool and design flood elevations.

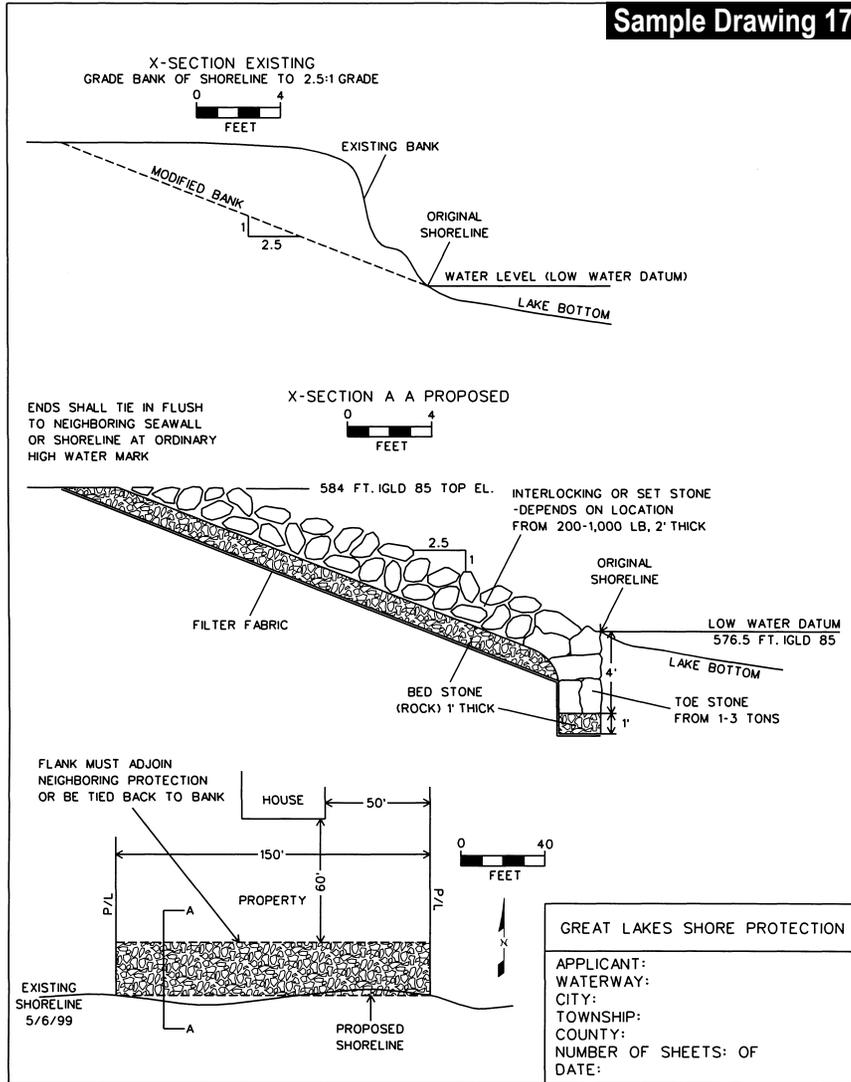
Sample Drawing 16



Complete **Section 10J** and **Sections 10A, 10B, 10C, 12, 13, and 16** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- Overall site plan showing existing lakes, streams, wetlands, floodplains and other water features.
- Name of waterbodies, property boundaries, easement boundaries, neighboring property owner information, and *soil erosion and sedimentation control measures*.
- Highest known and observed water elevations (ft) and dates of observations (M/D/Y).
- Datum used (IGLD 85, NGVD 29, or local) and a description of the reference point or benchmark.
- Detailed dimensions (length, width, depth, diameter, etc.) of headwall, end section, and/or pipe.
- Pipe invert elevation.
- Number of pipes and pipe diameters and invert elevations.
- Dimensions from fixed objects to property boundaries and the proposed water intake.

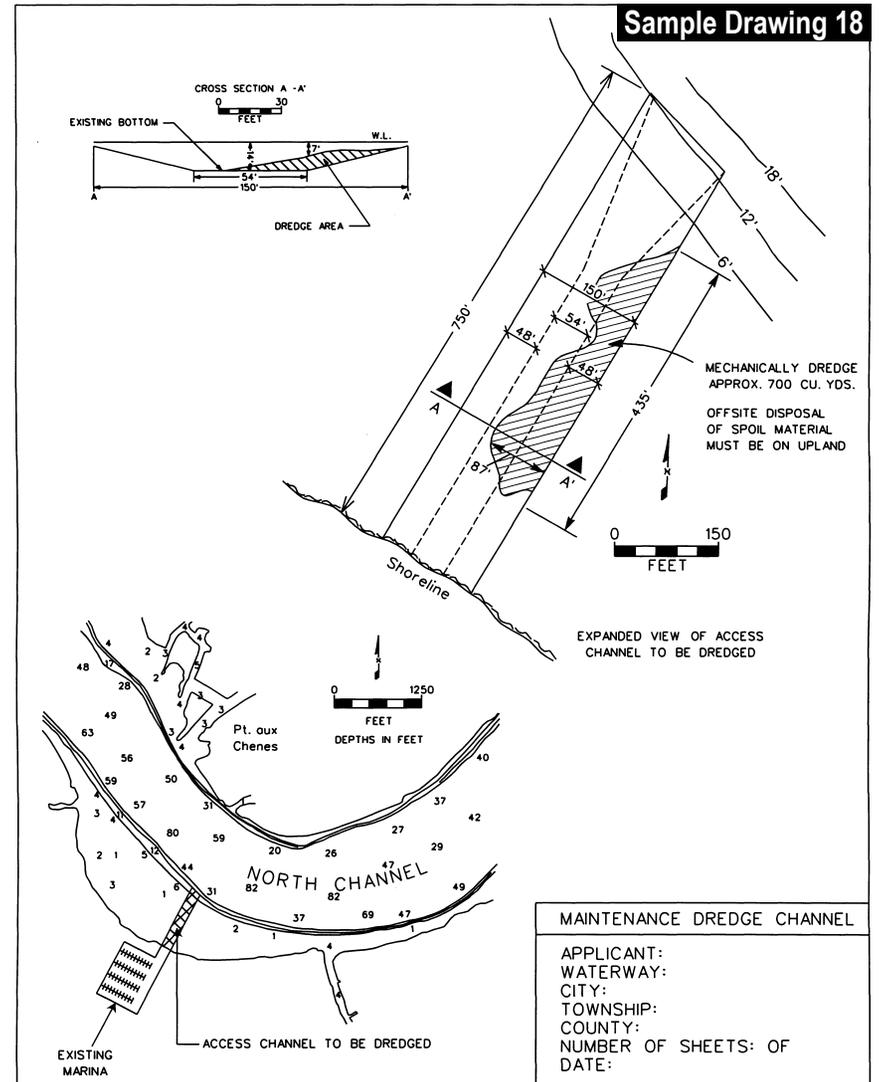
Sample Drawing 17



Complete **Section 10D** and **Sections 10A, 10B, 10C, 12, 20, and 21** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- Existing and proposed conditions along the shoreline at your project location.
- Existing conditions and/or structures along the shoreline for each adjacent parcel.
- Length of proposed shore protection. If shore protection is a seawall or bulkhead, please provide the return wall length (ft).
- Details of how structure will be tied into existing walls or tied back to bank.
- Location of filter fabric on cross-section.
- Horizontal and vertical dimensions from fixed objects to property boundaries and the proposed shore protection.
- Name of waterbody, neighboring property owner information, and property boundaries.
- Soil erosion and sedimentation control measures.
- Observed water elevation, date of observation, and datum (IGLD 85 or NGVD 29 on Section 10 Waters).

Sample Drawing 18

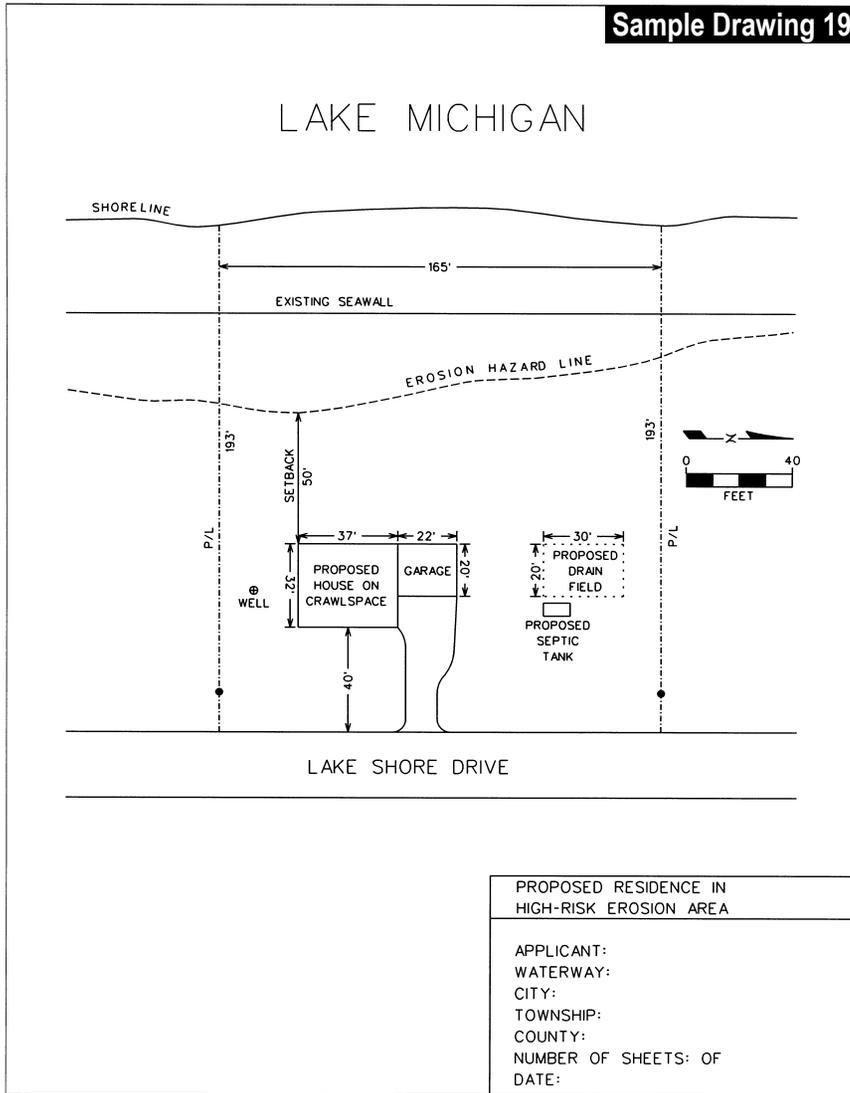


Complete **Sections 10B** and **Sections 10A, 12, and 21** if applicable to your project.

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- Overall site plan showing existing lakes, streams, wetlands, floodplains, and other water features.
- Name of waterbodies, property boundaries, and neighboring property owner information.
- The dredge spoils disposal area location in an upland area above the 100-year floodplain. If spoils will be disposed of off-site, attach a detailed location. Sediment testing may be required.
- The location and dimensions of existing or proposed docks or piers.
- Show maximum and average dredge dimensions (ft) in both plan and cross-section views. Calculate dredge volume in cubic yards by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
- Observed water elevation, date of observation, and datum (IGLD 85 or NGVD 29 on Section 10 Waters).
- Soil erosion and sedimentation control measures.

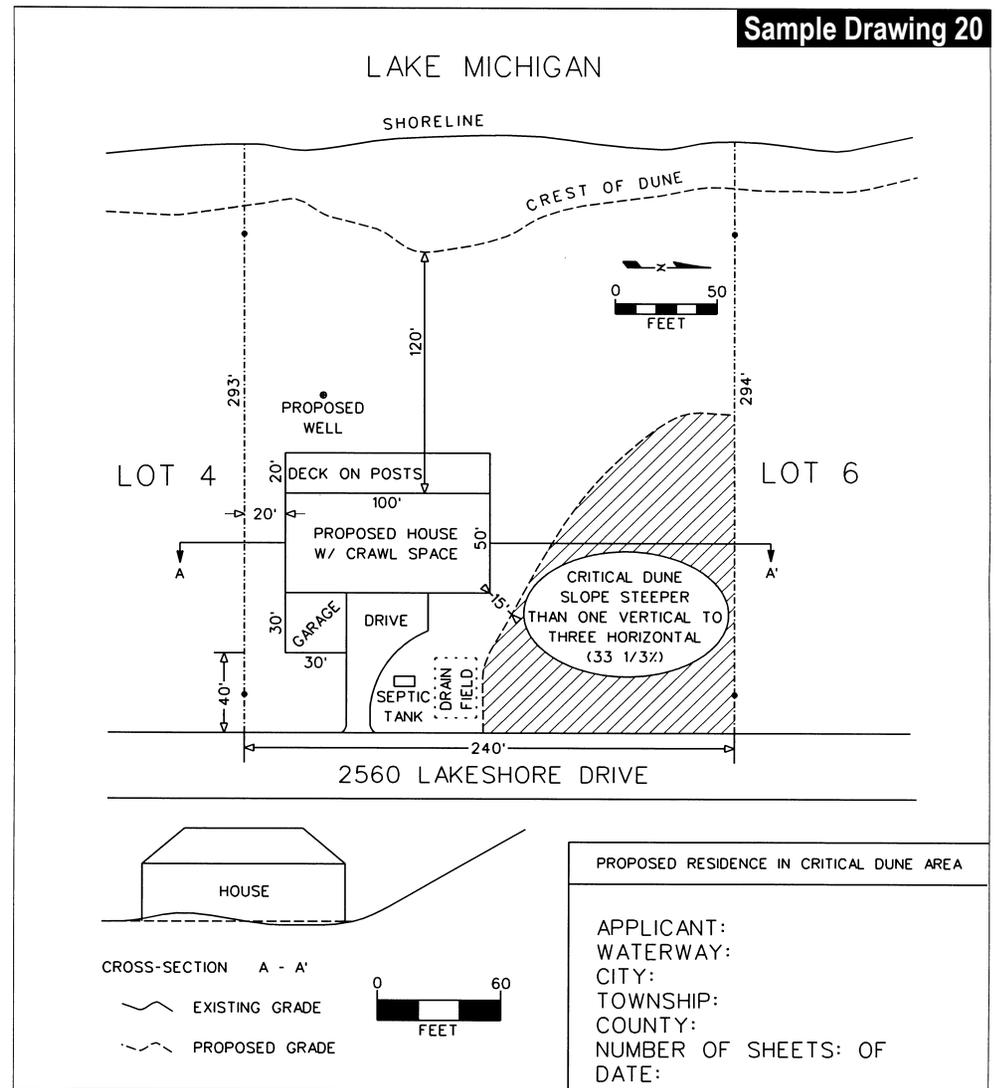
Sample Drawing 19



- Complete **Section 20** and **Sections 10A, 10B, 10C, and 10D** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
 - Name of waterbodies, location of water well, and property boundaries.
 - Dimensions for all existing and proposed buildings, septic systems, and driveways.
 - Applicable required *setback* dimensions (minimum distance (ft) from *erosion hazard line* to existing or proposed buildings or construction activities).
 - Location and dimensions of proposed grading.
 - Reference Sample Drawing 9 for required information if your proposed activities will impact a wetland.
 - Soil erosion and sedimentation control measures*.

Photographs are optional, but may assist staff in processing your application more quickly.

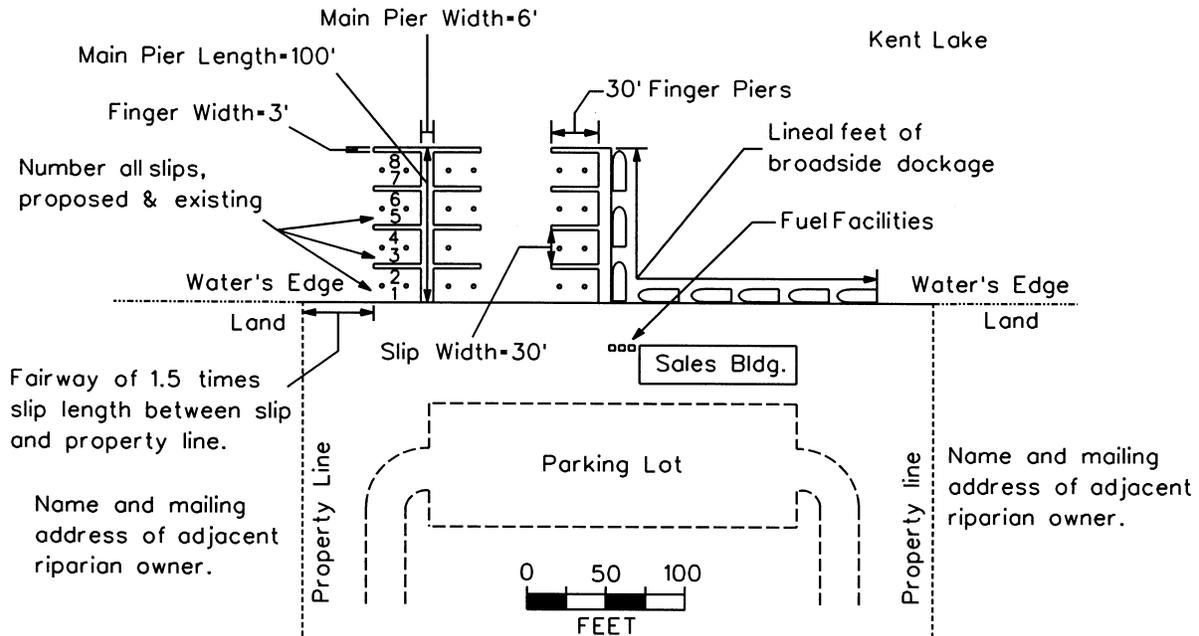
Sample Drawing 20



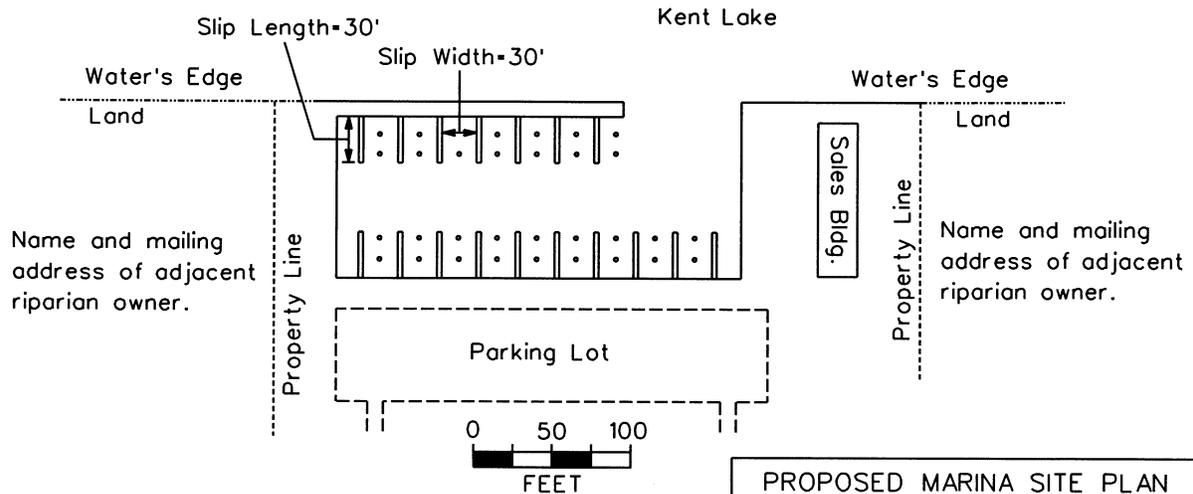
- Complete **Section 20** and **Sections 10A, 10B, 10C, 10D, 12, and 21** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
 - Name of waterbodies, location of water well, and property boundaries.
 - Identify areas where slopes are between 25 and 33 percent and greater than 33 percent.
 - Dimensions for all existing and proposed buildings, septic systems, and driveways.
 - Minimum distance (ft) from crest of dune to proposed or existing buildings or construction activity (ft).
 - Location and dimensions of areas where tree and other vegetation will be removed.
 - Location and dimensions of proposed grading.
 - Reference Sample Drawing 9 for required information if your proposed activities will impact a wetland.
 - Soil erosion and sedimentation control measures*.

Photographs are optional, but may assist staff in processing your application more quickly.

MARINA SITE PLAN #1



MARINA SITE PLAN #2



Please include actual dimensions for all distances as shown in examples.
Do not include slip or dock length as lineal feet of broadside dockage.

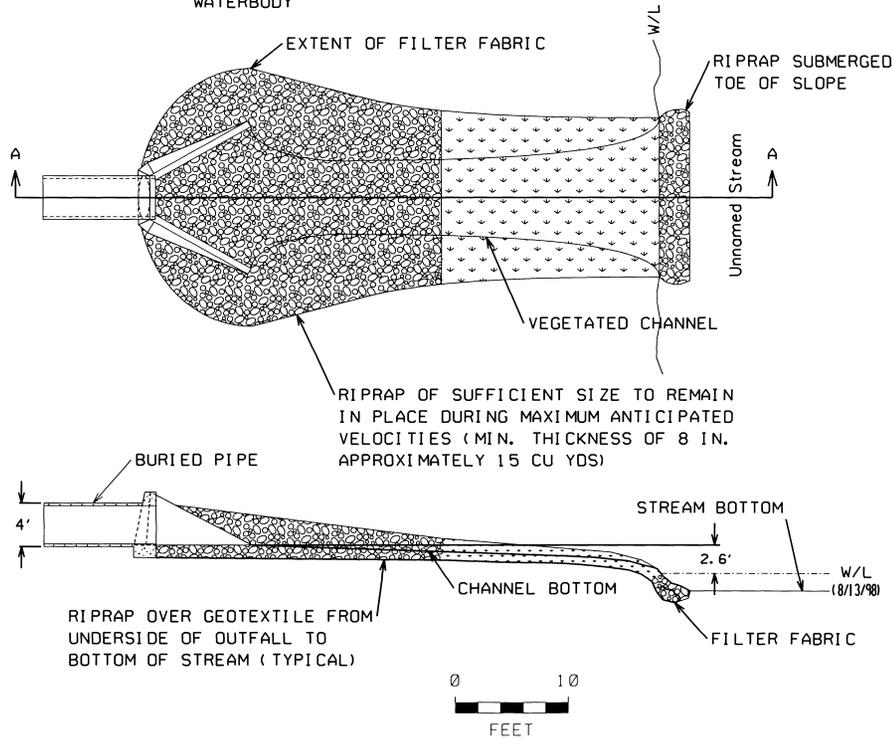
PROPOSED MARINA SITE PLAN

APPLICANT:
WATERWAY:
CITY:
TOWNSHIP:
COUNTY:
NUMBER OF SHEETS: OF
DATE:

- Complete **Section 19** and **Sections 10, 12, and 21** if applicable to your project.
Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, floodplains, and other water features.
 - Name of waterbodies, property boundaries, and neighboring property owner information.
 - Soil erosion and sedimentation control measures.
 - Site specific proposed dimensions for all distances shown in Sample Drawings 10 and 21 if applicable to your project.
 - Site specific information and dimensions shown on Sample Drawing 7 if dredging activity is proposed.
 - Highest known and observed water elevations (ft) and dates of observations.
 - Datum used (IGLD 85, NGVD 29, or local) and a description of the reference point or benchmark.

Sample Drawing 22

WHERE POSSIBLE THE OUTLET SHOULD BE SET BACK AWAY FROM THE BANK ALLOWING THE STORMWATER TO PASS THROUGH A VEGETATED CHANNEL BEFORE ENTERING THE WATERBODY



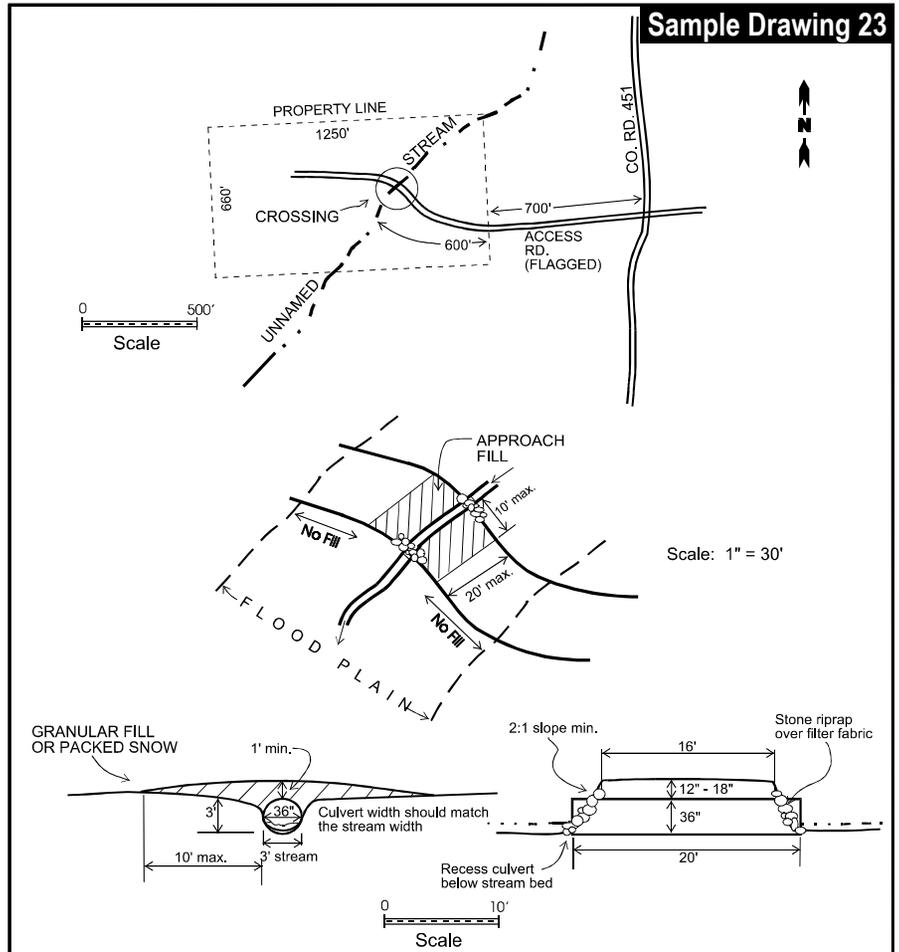
CROSS-SECTION A - A

PROPOSED OUTLET PIPE

APPLICANT:
 WATERWAY:
 CITY:
 TOWNSHIP:
 COUNTY:
 NUMBER OF SHEETS: OF
 DATE:

- Complete **Section 10I** and **Sections 10A, 10B, 10C, 12, 13, and 15** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, and other water features.
 - Name of waterbodies, property boundaries, and neighboring property owner information.
 - Soil erosion and sedimentation control measures.*
 - Datum used (NGVD 29, IGLD 85, or local) and a description of the reference point or benchmark.
 - 100-year *floodplain* elevation (if known).
 - Highest known and observed water elevations (ft) above or below reference point and dates of observations.
 - Include number of pipes, pipe diameters, and pipe invert elevations.
 - If on *Section 10 Waters*, provide pipe invert elevation in IGLD 85 or NGVD 29.

Sample Drawing 23



PROPOSED TEMPORARY LOGGING ROAD CROSSING

APPLICANT:
 WATERWAY:
 CITY/TOWNSHIP:
 COUNTY:
 NUMBER OF SHEETS: ___ OF ___
 DATE:

- Complete **Section 14** and **Sections 10A, 10B, 10C, 12, 13, and 15** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- Overall site plan showing existing lakes, streams, wetlands, and other water features.
 - Name of waterbodies, property boundaries, and neighboring property owner information.
 - Soil erosion and sedimentation control measures.*
 - Datum used (NGVD 29, IGLD 85, or local).
 - Description of reference point and highest known water elevation (ft) above or below reference point and date of observation.
 - 100-year *floodplain* elevation (if known).
 - Site specific information shown in Sample Drawing 14D (Stream Profile View).