

MEETING DATE: January 16, 2009

DATE ISSUED: January 21, 2009

LOCATION: Lake County Stormwater Management Commission

PROJECT: Washington Street Phase I Study from
Hainesville Road to Lake Street

PEI PROJECT: 20808.039

PURPOSE: Coordination Meeting

ATTENDEES	REPRESENTING	PHONE
Robert Gardiner	Lake County SMC	847-918-7690
Chuck Gleason	Lake County DOT	847-377-7447
Jarrold Cebulski	Patrick Engineering Inc. (Patrick)	630-795-7468
Adam James	Patrick	312-201-7922
Cynthia Flower	Bollinger, Lach & Assoc. (BLA)	847-854-7799
Dan Bruckelmeyer	BLA	630-438-6400

SUMMARY OF MEETING:

1. The purpose of the meeting was to introduce the subject project to, and discuss coordination with, SMC.
2. Mr. Gardiner explained that no permit submittal to SMC will be required for the Phase I study but rather the improvements will need to be designed to meet the requirements of the WDO. A permit will need to be obtained in Phase II. Any utility relocations required should be included under the same permit application.
3. Mr. Gardiner stated that authorization would be needed from the CN Railroad before construction could commence.
4. Patrick/BLA pointed out the presence of Zone A and Zone AH Floodplains. Following the meeting Mr. Gardiner provided Patrick with BFEs for the Zone A Floodplains and recommended that Patrick submit FOI request to SMC for the files containing calculations of those BFEs. Mr. Gardiner stated that compensatory storage at a ratio of 1:2 would be required.
5. Patrick inquired about field tile information, particularly in the farm fields surrounding the Metra station and east over to Lake Street. Mr. Gardiner stated that the Metra station is located in Grayslake and that SMC and SWCD has some field tile mapping but that it is incomplete and inaccurate by its nature. He indicated that SMC will check their files.

6. Patrick stated that they believed that detention would be required per the Watershed Development Ordinance (WDO).
7. Mr. Gardiner stated that variances from detention can be issued but only if all other options are exhausted first (e.g. condemnation of homes to construct detention facilities would not be a feasible option). It is permissible to raise the HWL of existing detention facilities as long as it stays within the easement of the pond. If in the floodplain, need IDNR and FEMA approval and must notify affected property owners if raising > 0.1 foot - SMC recommends a LOMR. Raising NWL without expanding the pond will add useable storage. Lowering the NWL (e.g. modifying the outlet) is probably permissible unless there is a reason NWL is needed to be maintained. SMC would want an agreement between pond owner and DOT specifying the additional detention being provided for the roadway improvements.
8. Mr. Gardiner stated that erosion control measures would be required including AASHTO M 288 silt fence and inlet filter baskets.
9. DOT indicated that any wetland mitigation that is required would be accomplished by wetlands banking.
10. Mr. Gardiner indicated that a Jurisdictional Determination from the Corps of Engineers (COE) is required even though the IAW Policy is being followed, and a farmed wetland determination would be needed. Roadside ditches are exempt. SMC will take jurisdiction if COE won't. Small, isolated wetlands that are disturbed will be treated as 100% impacted.
11. Mr. Gardiner noted that the soils in the project area are most likely not suitable for infiltration.
12. Mr. Gardiner stated that there will likely be more revisions made to the WDO that will take effect in March 2010. "Stay-on" requirements are likely to be added.
13. AASHTO D288 ? fence – IDOT spec now meets too (?) on SMC website

Further discussion between Bob Gardiner and Adam James

14. Mr. Gardiner and Mr. James remained after the other attendees left to discuss detention calculation methodology and other items pertaining to compliance with the WDO.
15. Not all of the roadway area needs to be routed through a detention facility, just sufficient area to fully utilize the storage provided (see below). Water quality (WQ) measures must be provided everywhere however.
16. Can use unit area method (Appendix K) to calculate required volume for additional impervious area for entire project. Size restrictors for entire area tributary to it multiplied by the prescribed release rate (e.g. 0.15 cfs/acre). Perform rational reservoir routing calculations to verify that required storage is greater than storage provided – this shows that all storage volume provided is being utilized and therefore the WDO requirements met.
17. Where detention will be provided in oversized storm sewers, the IDOT plate restrictor standard is ideal.
18. If adding volume to an existing detention pond, there is no need to modify the restrictor (e.g. reduce the opening size) provided the head will not be significantly increased.
19. Pump stations – show that for the 10-year storm (minimum design event) no flooding will occur if 1 pump fails. A backup generator is required. Provided the force main discharges into a gravity

system prior to leaving the ROW, the pump station discharge rate is not regulated, but rather the total discharge downstream should not be increase so as to not create flooding downstream.

20. The volumetric divert and detain requirements for WQ in the WDO apply to wetland and wet bottom detention basins where these facilities provide the WQ – i.e. if no pretreatment is provided (e.g. vegetated swales) this is the minimum volume that needs to be provided below the outlet. For linear projects such as public roads, Vortex type manholes, vegetated swales and ditches are acceptable for satisfying the WQ requirements.

The above reflects a summary of the discussions and decisions made at this meeting. If you have any questions, additions or comments, please contact us at the above Patrick Engineering Inc. attendee at the referenced phone number. We will consider the minutes to be accurate unless written notice is received within 10 working days of the date issued.

Prepared by: Adam James

Date: 1/21/09

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