

Everyone Is Invited To A
**JOINT PUBLIC INFORMATION
MEETING**

PROJECT NO. 69-79

BRIDGE NO. 02680

ROUTE 148 OVER UNNAMED BROOK

KILLINGWORTH

AND

PROJECT NO. 172-393

BRIDGE NOS. 06665, 06739, 06740

ROUTE 82 OVER GREAT BROOK

ROUTE 148 OVER BUNKER HILL BROOK

ROUTE 148 OVER LANE DISTRICT BROOK

KILLINGWORTH AND CHESTER

TO BE HELD

THURSDAY, JUNE 12, 2014

at 7:00 P.M. in the

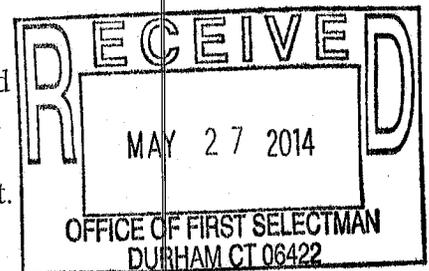
**All Purpose Room
Killingworth Elementary School
340 Route 81
Killingworth, Connecticut**

Residents, business owners, commuters, and
other interested individuals are encouraged
to take advantage of this opportunity to
learn about and discuss the proposed project.

**PLEASE JOIN US ON
THURSDAY JUNE 12, 2014**

STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION

Location is ADA accessible. If language assistance is needed, please
contact Department of Transportation's Office of Communications at
(860) 594-3062.



NOTICE OF JOINT PUBLIC INFORMATION MEETING

The Connecticut Department of Transportation (Department) will conduct a Public Information Meeting, concerning the replacement of Bridge No. 02680, Route 148 over an unnamed Brook and Bridge No. 06739, Route 148 over Bunker Hill Brook, and the rehabilitation of Bridge No. 06665, Route 82 over Great Brook and Bridge No. 06740, Route 148 over Lane District Brook. The meeting will take place at 7:00 p.m. on June 12, 2014 at the All Purpose Room, Killingworth Elementary School, 340 Route 81, in Killingworth, CT.

Bridge No. 02680, built in 1937, carries Route 148 over an unnamed Brook in the town of Killingworth. The bridge is a single-span concrete slab supported by reinforced concrete abutments and wing walls. The substructure is founded on timber piles. This structure has a total length of 19 feet, clear span of 15.5 feet and an out-to-out deck width of 35.2 feet. The roadway width measures 30.4 feet curb-to-curb, which is wider than the approach roadway width of 28 feet. The 2012 Average Daily Traffic (ADT) on the bridge is 1,700 vehicles. The serious condition of the concrete slab and abutments warrants complete bridge replacement.

The proposed project consists of replacing the existing bridge with a 32 foot clear span precast concrete rigid frame structure on precast footings founded on piles. The curb-to-curb width will be slightly increased to 32 feet to accommodate an 11 foot travel lane and 5 foot shoulder in each direction. Drainage improvements are being made to Route 148 in the vicinity of Blue Hills Road. The recommended roadway work includes the replacement of bituminous pavement for a minimum distance beyond each end of the bridge and installing metal beam guide rail. There is a permanent easement required for this project. The estimated construction cost for the project is \$1,600,000 and is to be undertaken using Fix-it-First funds.

Bridge No. 06665 is a single 11 foot diameter, asphalt coated, corrugated metal pipe installed in 1971, which conveys Great Brook under Route 82 and the Route 9 on and off ramps in the town of Chester. The pipe is approximately 380 feet long and is located approximately 50 feet below the roadway. Upstream from the structure is a shallow pond created by the existing 2 foot high concrete weir spillway located at the inlet. The Department's Inspection Report, dated July 21, 2011, indicates that there is heavy laminar rust at and below the spring line, along the length of pipe, with pitting section loss. Some bolt heads are raised and have heavy laminar rust with up to 50 percent section loss. The wing walls at the inlet have light to medium scale along the bottom.

Bridge No. 06665 will be rehabilitated with a 6 inch thick concrete lining installed along the existing culvert invert. Two concrete weirs with notch cutouts will be installed inside the culvert located 2 feet and 6 feet downstream from the inlet to provide for fish passage. A notch will also be cut out in the existing weir, at the inlet end, and three rock weirs will be placed strategically downstream from the outlet to provide for fish passage at the recommendation of DEEP Fisheries. Temporary access roads will be built on each side of Route 82 to access the inlet and outlet of the culvert to perform the proposed work.

Bridge No. 06739 is a single 6 foot diameter, asphalt coated, corrugated metal pipe, installed in 1965, which conveys Bunker Hill Brook under Route 148 in the town of Killingworth. The structure is approximately 75 feet long with masonry head walls and wing walls at the inlet and outlet. The culvert condition received a rating of 2 in the Department's Inspection Report, dated July 25, 2011. The report indicates there is scour at the outlet measuring approximately 10 feet in diameter and 3 feet deep. The wing wall footings are exposed full length, up to 30 feet deep. The head walls are deteriorated and missing mortar at random joints. At the outlet wall, there are stone and mortar voids at the base of the pipe. The culvert exhibits pitting, heavy laminar rust and scattered perforations along the invert. Erosion of the backfill material is visible through the perforations along the invert of the pipe. The pipe is bending at some of the perforations and the upper sections of the pipe have missing sections of asphalt coating.

Bridge No. 06739 will be replaced with a three-sided precast concrete box culvert with a hydraulic opening of 12 feet wide by 7 feet high. End walls will be constructed. A 2 foot wide shelf along the entire length of the box culvert will be provided for riparian/critter crossing. Boulders and cobbles will be placed within the invert of the open bottom box culvert to simulate the existing upstream conditions.

Bridge No. 06740 is a single 6 foot 7 inch (span) by 4 foot 9 inch (rise), asphalt coated, corrugated metal pipe arch, installed in 1965, which conveys Lane District Brook under Route 148, in the town of Killingworth. The structure is approximately 27 feet long, with concrete wing walls at the inlet and outlet. The culvert condition received a rating of 2 in the Department's Inspection Report, dated July 25, 2011. The report indicates there is a scour hole downstream approximately 25 feet long by 5 foot wide by 2 foot deep. The culvert exhibits pitting and heavy laminar rust, below the spring line, up to 24 feet wide. Erosion of the backfill material is visible through the perforations. The upper portion of the pipe is in good condition. The head walls and wing walls are showing medium to severe scale and heavy efflorescence.

Bridge No. 06740, will be relined with a 66 foot by 51 foot corrugated metal pipe. A supplemental 57 foot by 38 foot corrugated aluminum arch pipe will be installed under Route 148, approximately 16 feet to the west of the existing pipe, to increase the hydraulic capacity of the crossing. The existing end walls will be repaired. The guiderail within the project limits will be upgraded to meet current design standards. Slope easements, construction easements and a drainage right-of-way will be required at Bridge Nos. 06739 and 06740. The estimated construction cost for these bridges is \$2,000,000 and is to be undertaken utilizing 80 percent Federal and 20 percent State funds.

The majority of construction for Bridge Nos. 02680, 06739 and 06740 will be performed during an eight week detour while only closing one bridge at a time. The anticipated detour time frame will be approximately June 29, 2015 to August 27, 2015. It will be the State Contractor's preference in regards to the order in which they are constructed. There will be off-peak lane closures, which consists of maintaining alternating one-way traffic over the bridge, prior to the detour period to perform certain construction activities. Bridge No. 06665 will be constructed during the 2015 construction season.

The Public Information Meeting is being held to afford a full opportunity for public participation and to allow open discussion of any views and comments the community may have concerning this proposed project. The meeting facility is ADA accessible. Language assistance may be requested by contacting the Department's Office of Communications (voice only) at (860) 594-3062 at least five working days prior to the meeting. Language assistance is provided at no cost to the public, and efforts will be made to respond to requests for assistance.

Plans will be available for public review. Department personnel will be available during the meeting to discuss this project. More detailed information is available at the Department's Office of Engineering, 2800 Berlin Turnpike, Newington, Connecticut, during office hours, Monday through Friday, 8:30 a.m. to 4:00 p.m., excluding holidays. Anyone wishing to review the plans for Project No. 69-79 (Bridge No. 02680) may contact Ms. Lesgie M. Ruiz, Transportation Engineer, at (860) 594-3351 or by e-mail at lesgie.ruiz@ct.gov and for Project No. 172-393 (Bridge Nos. 06665, 06739 and 06740), please contact Mr. Ahsan Saghir, Transportation Engineer, at (860) 594-2076 or by e-mail at ahsan.saghir@ct.gov.

All persons interested in this project are welcome to attend this meeting and discuss the project with Department personnel.