TOWN OF GEORGETOWN, MASSACHUSETTS
HIGHWAY DEPARTMENT
CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER
MASSACHUSETTS EMERGENCY MANAGEMENT AGENCY (MEMA)
HAZARD MITIGATION GRANT PROGRAM (HMGP-1813-19)

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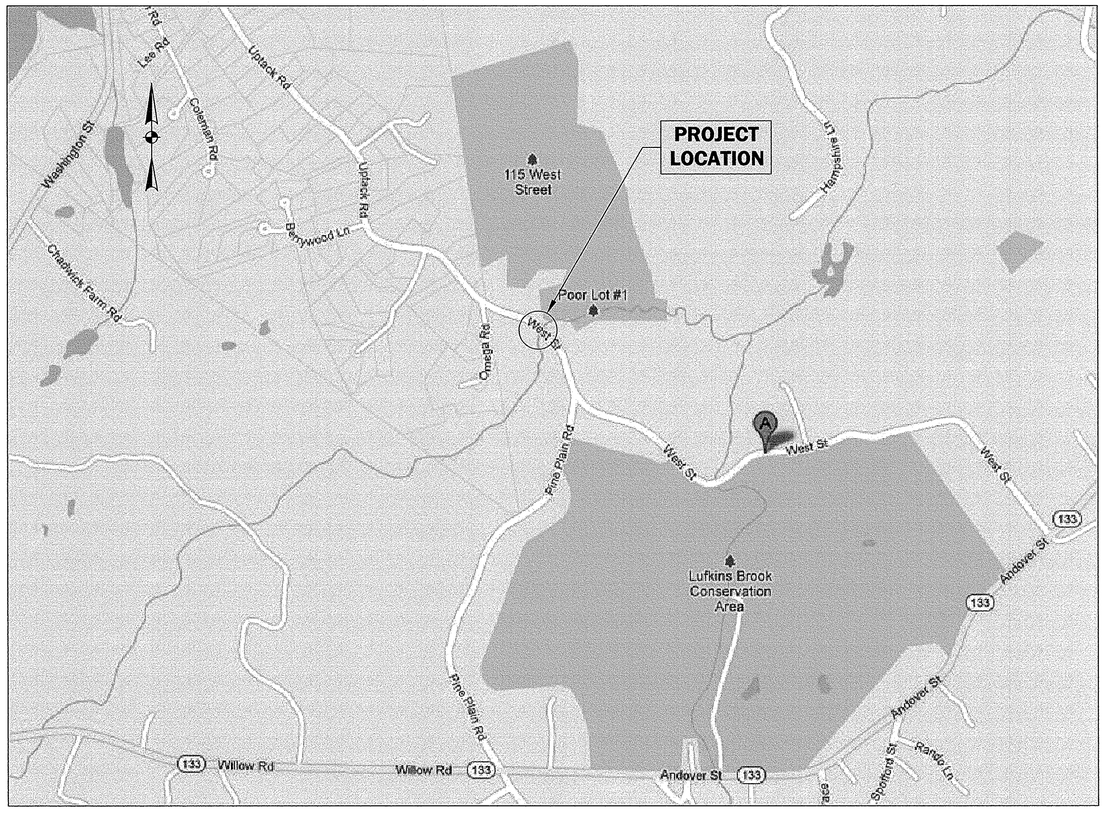
17	WEST STREET CROSS SECTION STA. 10+00 TO STA. 11+00
18	WEST STREET CROSS SECTION STA. 11+50 TO STA. 12+50



NOVEMBER 2012

BOARD OF SELECTMEN
C. DAVID SURFACE, CHAIRMAN
STUART EGENBERG, CLERK
PHILIP TRAPANI
GARY FOWLER
STEPHEN SMITH

TOWN ADMINISTRATOR
MICHAEL FARRELL

HIGHWAY DEPARTMENT SUPERVISOR
PETER DURKEE

Prepared by:

COUGHLIN ENVIRONMENTAL SERVICES, LLC

DANIEL J. COUGHLIN CIVIL No. 33339 REGISTERED PROFESSIONAL ENGINEER 11/26/12

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LEGEND

# 203	HOUSE NUMBER
2/31	ASSESSORS MAP/LOT NUMBER
● WCS	WATER CURB STOP
UP	UTILITY POLE W/ OVERHEAD WIRE & GUY
B11 B12	WETLAND FLAGGING
Ⓦ	WATER GATE
Ⓖ	GAS GATE
24" P	TREE DESIGNATION (24" DIAMETER PINE)
	HYDRANT
	SIGN
——— — — ———	STREET LINE ($\mathcal{S}$) / PROPERTY LINE (℘)
——— D ———	DRAIN LINE
——— E ———	ELECTRIC LINE
——— T ———	TELEPHONE LINE
——— CTV ———	CABLE TELEVISION LINE
——— W ———	WATER LINE
——— G ———	GAS LINE
	SILTATION BARRIER
	100 YEAR FLOOD PLAIN BOUNDARY
	MA D.E.P. WATER SUPPLY PROTECTION ZONE
	50' BUFFER ZONE TO RESOURCE AREA
	75' BUFFER ZONE TO RESOURCE AREA
	100' BUFFER ZONE TO RESOURCE AREA
——— BVW ———	BORDERING VEGETATED WETLAND
	WETLAND
SPK IN POLE 116.21	BENCHMARKS (NGVD 1929)
——— 90 ———	EXISTING MAJOR CONTOUR
— — 89 — —	EXISTING MINOR CONTOUR
——— 91 ———	PROPOSED CONTOUR

ABBREVIATIONS

A.C.	ASBESTOS CONCRETE
ALUM.	ALUMINUM
C.B.	CATCH BASIN
C.B.C.I.	CATCH BASIN CURB INLET
C.I.	CAST IRON PIPE
C.I.C.L.	CAST IRON PIPE, CEMENT LINED
C.L.D.I./D.I.C.L.	CEMENT LINED DUCTILE IRON/ DUCTILE IRON CEMENT LINED
C.M.P.	CORRUGATED METAL PIPE
CONC.	CONCRETE
D	DIAMETER
D.I.	DUCTILE IRON
DIAM.	DIAMETER
D.M.H.	DRAINAGE MANHOLE
D.W.C.H.D.P.E.	DOUBLE WALL CORRUGATED HIGH DENSITY POLYETHYLENE
E.P.	EDGE OF PAVEMENT
E.W.	EACH WAY
EXIST.	EXISTING
F.M.	FORCE MAIN
G.G.	GAS GATE
G.V.	GATE VALVE
GPM	GALLONS PER MINUTE
HMA	HOT MIX ASPHALT
H.H.	HANDHOLE
HYD.	HYDRANT
LBS.	POUNDS
LPS	LOW PRESSURE SEWER
M.B.	MAILBOX
MAX.	MAXIMUM
MIN.	MINIMUM
NPT	NATIONAL PIPE THREAD
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PC200	200 PSI CLASS PIPE
℘	PROPERTY LINE
PROP.	PROPOSED
P.S.	PRESSURE SEWER
P.S.I.	POUNDS PER SQUARE INCH
P.V.C.	POLYVINYL CHLORIDE
R.C.P.	REINFORCE CONCRETE PIPE
R.O.W.	RIGHT OF WAY
REQ.	REQUIRED
$\mathcal{S}$	STREET LINE
S.B.	STONE BOUND
S.S.	STAINLESS STEEL
STL	STEEL
T.M.H.	TELEPHONE MANHOLE
T.S.&V.	TAPPING SLEEVE AND VALVE
T.W.	TEMPORARY WATER MAIN
TYP.	TYPICAL
U.L.P.	UTILITY LIGHT POLE
U.P.	UTILITY POLE
V.C.	VITRIFIED CLAY PIPE
W/	WITH
W.G.	WATER GATE
W.M./M.P.	WATER METER PIT
ø	DIAMETER

NOTES

1. UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FROM:
   - NATIONAL GRID
   - GEORGETOWN MUNICIPAL LIGHT DEPARTMENT
   - VERIZON
   - FIELD OBSERVATIONS
   - TOWN OF GEORGETOWN WATER DEPARTMENT
2. DIG SAFE SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND THE CONTRACTOR SHALL ALSO OBTAIN A MARK OUT BY THE GEORGETOWN WATER DEPARTMENT TO DETERMINE THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES.
3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL COSTS FOR DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
4. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITIES REQUIRED AND VERIFY THE LOCATION OF ALL EXISTING SUBSURFACE UTILITIES PRIOR TO PERFORMING ANY WORK. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY DISCREPANCIES BETWEEN CONDITIONS SHOWN ON THE PLANS AND ACTUAL FIELD CONDITIONS.
5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT. EXTRA WORK AND/OR DELAY CLAIMS SHALL NOT BE CONSIDERED BY THE OWNER AS A RESULT OF THE CONTRACTOR NOT ADEQUATELY VERIFYING EXISTING UTILITY DATA IN ADVANCE OF CULVERT FABRICATION, DELIVERY AND CONSTRUCTION.
6. ALL EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE AND KEPT OPERATIONAL DURING CONSTRUCTION EXCEPT AS NOTED ON THE CONTRACT DRAWINGS OR SPECIFICATIONS. ANY UNSPECIFIED DISRUPTION TO OR ABANDONMENT OF EXISTING UTILITIES SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF THE ENGINEER.
7. ALTHOUGH NOT ANTICIPATED, ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE WORK CALLED FOR UNDER THIS CONTRACT. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS WITH PRIOR WRITTEN APPROVAL OF THE ENGINEER.
8. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION <u>AT THE CONTRACTOR'S EXPENSE.</u>
9. PLANS SHOWN WERE DEVELOPED FROM BEST AVAILABLE INFORMATION SUPPLIED BY THE TOWN, INCLUDING TOWN ASSESSORS MAPS. FIELD SURVEY VERIFICATION WAS MADE UTILIZING INSTRUMENT SURVEY AND/OR MEASURING WHEEL. ALL PROPERTY LINES ARE SHOWN IN APPROXIMATE FASHION AND SHOULD BE VERIFIED WITH PROPERTY OWNERS PRIOR TO COMMENCING WORK.
10. ALL BLASTING OPERATIONS IF REQUIRED SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE STATE OF MASSACHUSETTS BOARD OF FIRE PREVENTION REGULATION 527 CMR SECTION 13.00 AND ALL LOCAL REGULATIONS.
11. HAY BALES, SILT FENCE, AND GEOTEXTILE WRAP ARE TO BE INSTALLED AROUND WORK SITE AND OTHER ADJACENT AREAS TO PROTECT WETLANDS ADJACENT TO THE WORK, AS NOTED ON THE PLANS AND/OR AS DIRECTED BY THE ENGINEER. EROSION CONTROL TO BE REMOVED AFTER PAVING IS COMPLETED AND ALL LOAMED AND SEEDED AREAS HAVE ESTABLISHED A STABLE STAND OF COVER AND AFTER RECEIVING APPROVAL FROM THE GEORGETOWN CONSERVATION AGENT. REFER TO TURTLE PROTECTION PLAN FOR ADDITIONAL GUIDANCE.
12. THE TERM "NEW" OR "PROPOSED" MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS.
13. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
14. <u>PRIOR TO BIDDING, CONTRACTOR SHALL VISIT PROJECT LOCATIONS TO BECOME COMPLETELY FAMILIAR WITH EXISTING CONDITIONS.</u>
15. WETLAND INFORMATION WAS OBTAINED FROM MASS GIS DATABASE AND AS OBSERVED IN THE FIELD. DELINEATION FLAGGING AND LOCATION WAS PROVIDED BY GEORGETOWN CONSERVATION AGENT.
16. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ALL ORDER OF CONDITIONS ESTABLISHED FOR THIS PROJECT.
17. PROPOSED UTILITY LOCATION MAY BE CHANGED BASED ON SITE CONDITIONS ENCOUNTERED AND PROPERTY LINE LOCATIONS ESTABLISHED DURING CONSTRUCTION, WITH THE APPROVAL OF THE ENGINEER.
18. A PLASTIC DEBRIS COLLECTION FENCE SHALL BE INSTALLED DOWN STREAM OF WORK AREA TO CATCH ANY FLOATING CONSTRUCTION DEBRIS DURING PROJECT FIELD CONSTRUCTION EFFORTS.

CIVIL: COMMONWEALTH OF MASSACHUSETTS DANIEL J. COUGHLIN CIVIL No. 33339 REGISTERED PROFESSIONAL ENGINEER

11/26/12

REV.	DESCRIPTION	DATE
1	REVISED NOTE #11	11/26/2012

DRW: AAS DSG: AAS CHK: DJC

LEGEND AND GENERAL NOTES

CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER
MASSACHUSETTS EMERGENCY MANAGEMENT AGENCY
HAZARD MITIGATION GRANT PROGRAM
HMGP-1813-19
Prepared For
TOWN OF GEORGETOWN
GEORGETOWN, MASSACHUSETTS

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Email: mail@coughlinenvironmental.com

DATE: JUNE 2012
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CES NO.: 2510-01 SCALE: N.T.S.

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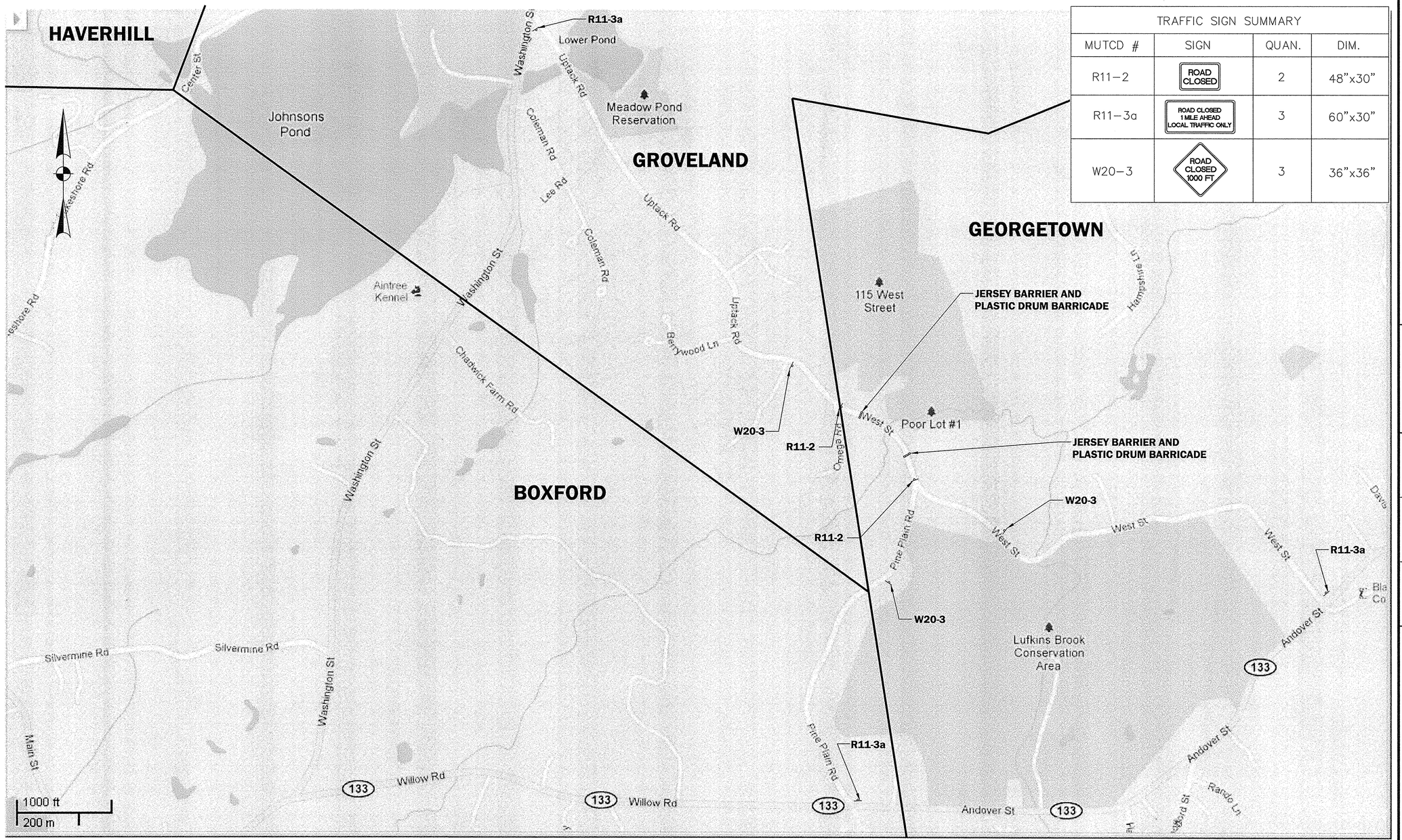

TRAFFIC SIGN SUMMARY			
MUTCD #	SIGN	QUAN.	DIM.
R11–2	ROAD CLOSED	2	48"x30"
R11–3a	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY	3	60"x30"
W20–3	ROAD CLOSED 1000 FT	3	36"x36"

DRW:	CHK:	DESCRIPTION	BY
AAS	DJC		DNE
DSG: AAS			

CIVIL:

TRAFFIC MANAGEMENT PLAN

CULVERT AND ROADWAY UPGRADE AT
WEST STREET OVER THE PARKER RIVER
MASSACHUSETTS EMERGENCY
MANAGEMENT AGENCY
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SHEET 2 OF 18

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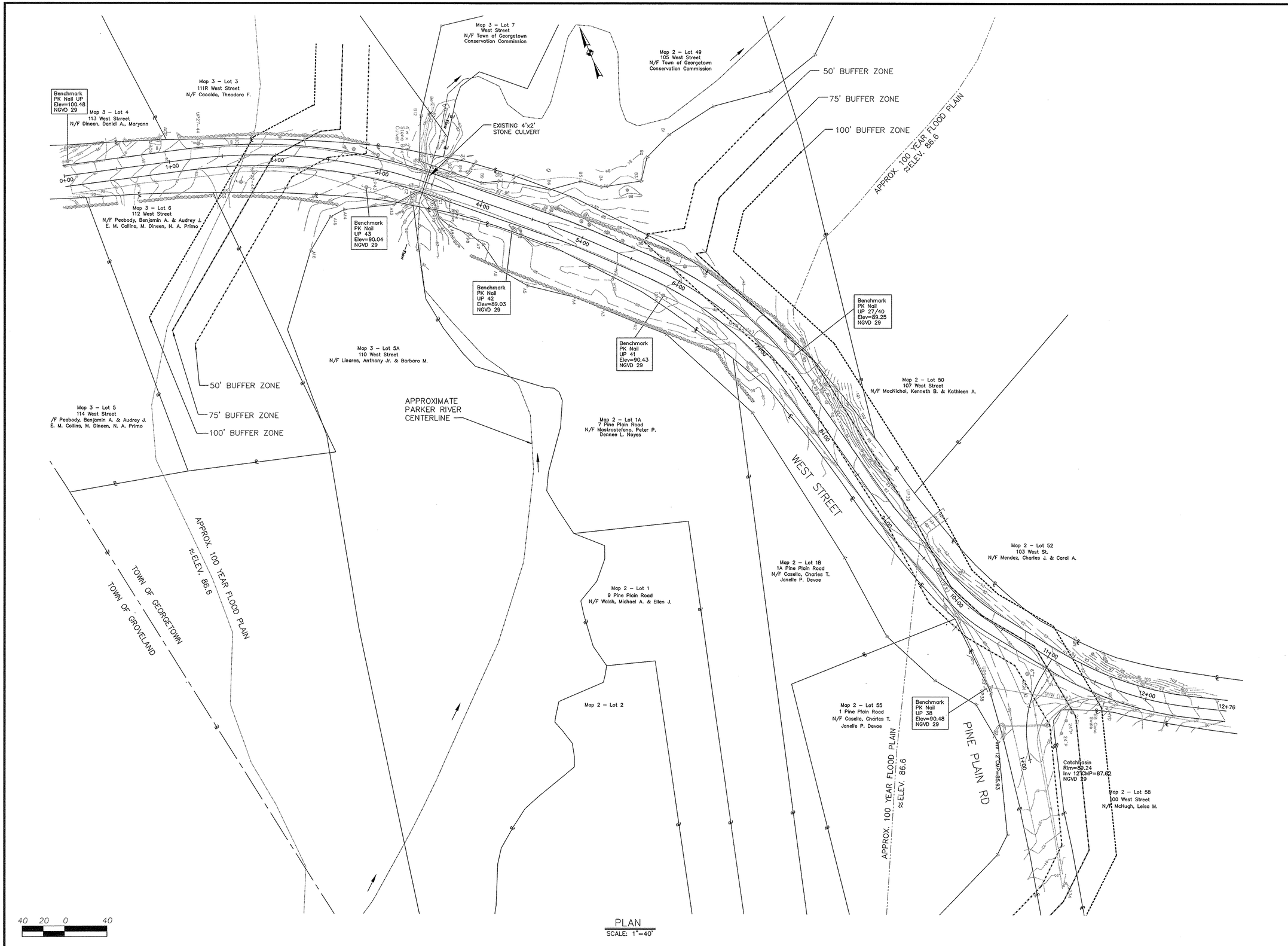

PLAN
SCALE: 1"=40'

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CIVIL:

DANIEL J. COUGHLIN
CIVIL
No. 33339
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
13/14/12

REV.	DESCRIPTION	DATE
DRW: AAS	DSG: AAS	CHK: DJC

EXISTING CONDITIONS SITE PLAN

CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER
MASSACHUSETTS EMERGENCY MANAGEMENT AGENCY
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HMGP-1813-19

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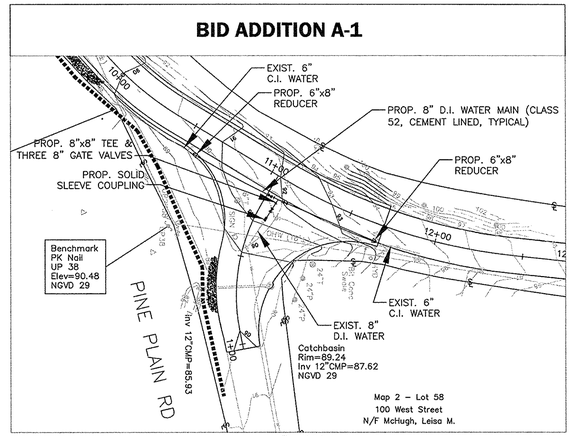
CES NO.: 2510-01 SCALE: 1" = 40'

BID ADDITION A-1



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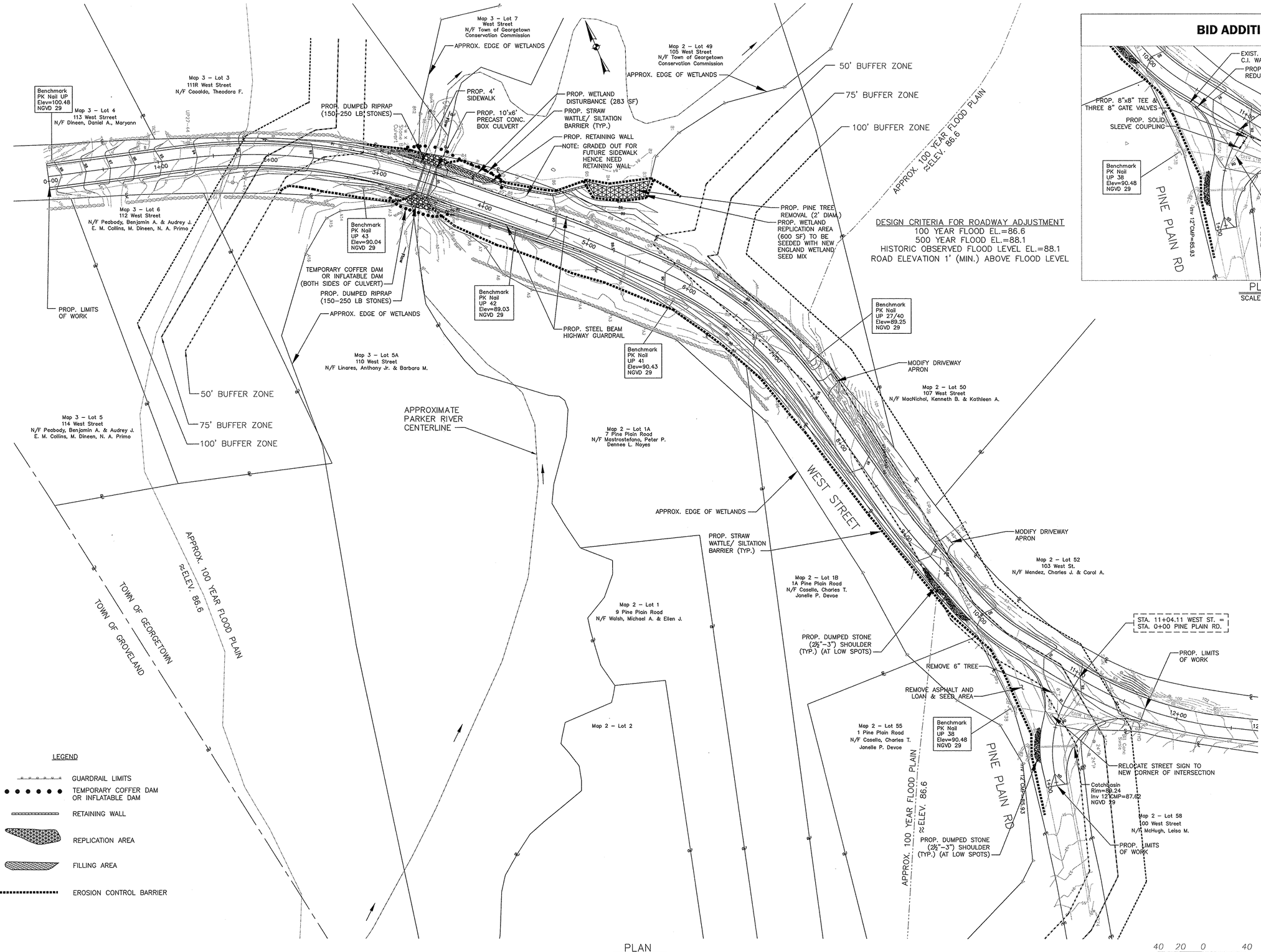

PLAN
SCALE: 1"=40'

LEGEND

- GUARDRAIL LIMITS
- TEMPORARY COFFER DAM OR INFLATABLE DAM
- RETAINING WALL
- REPLICATION AREA
- FILLING AREA
- EROSION CONTROL BARRIER

CIVIL: DANIEL J. COUGHLIN CIVIL No. 33390 REGISTERED PROFESSIONAL ENGINEER
11/26/2012

DRW: AAS	CHK: DJC
DSG: AAS	DATE: 11/26/2012

REV	DESCRIPTION
1	BID ADDITION A-1, DRIVEWAY APRONS, EXCL DRAINAGE AT CULVERT

PROPOSED ROADWAY SITE PLAN

CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER
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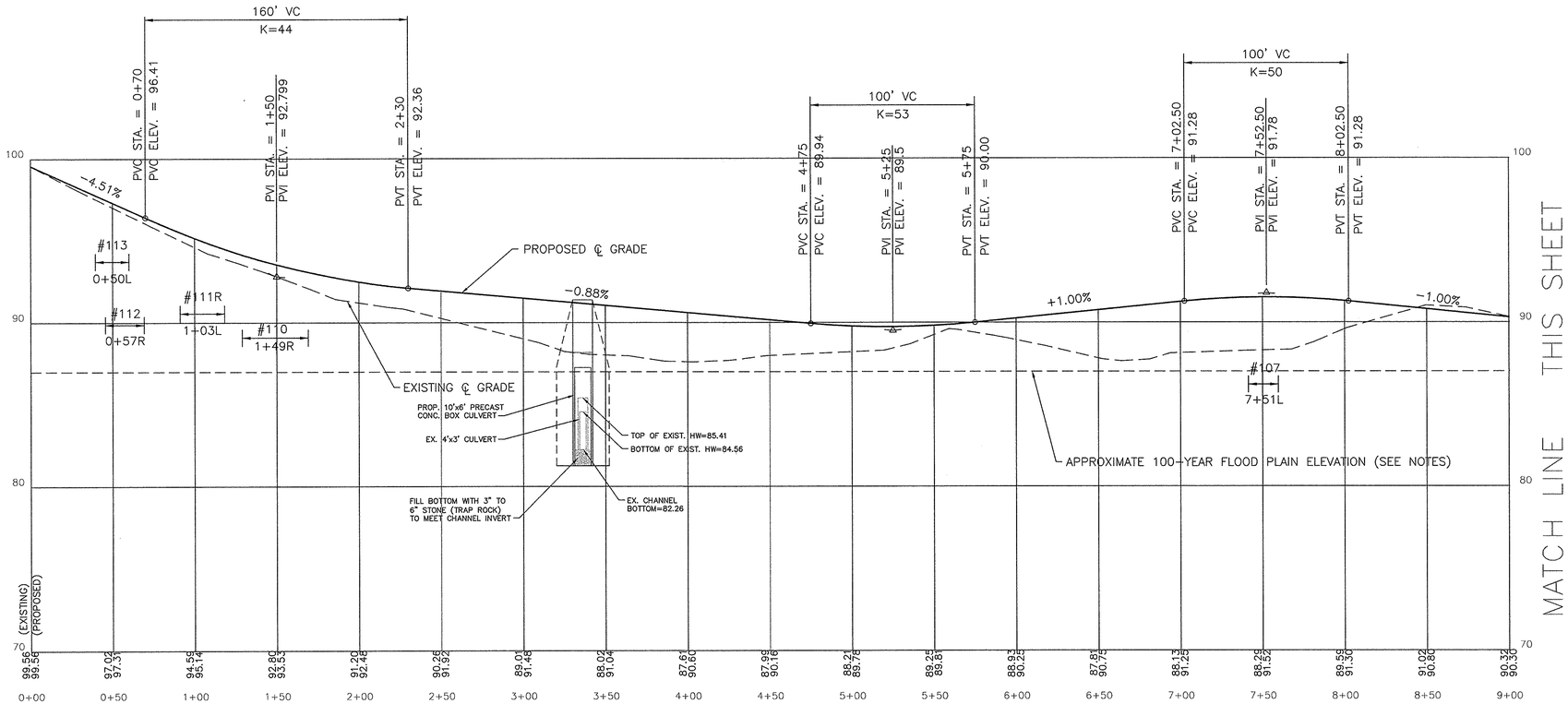
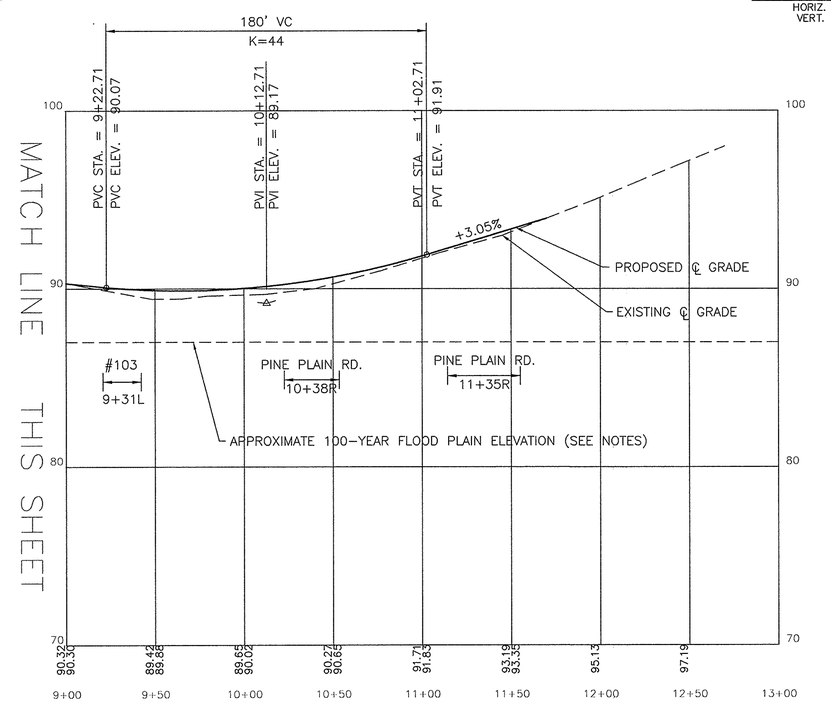


WEST STREET PROFILE
HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'



WEST STREET PROFILE
HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'

DESIGN CRITERIA FOR ROADWAY ADJUSTMENT
100 YEAR FLOOD EL.=86.6
500 YEAR FLOOD EL.=88.1
HISTORIC OBSERVED FLOOD LEVEL EL.=88.1
ROAD ELEVATION 1' (MIN.) ABOVE FLOOD LEVEL

REV.	DESCRIPTION	DATE

DRW: AAS DSG: AAS CHK: DJC

CIVIL: DANIEL J. COUGHLIN CIVIL No. 33339 REGISTERED PROFESSIONAL ENGINEER 8/15/12

ROADWAY PROFILE

CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER
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