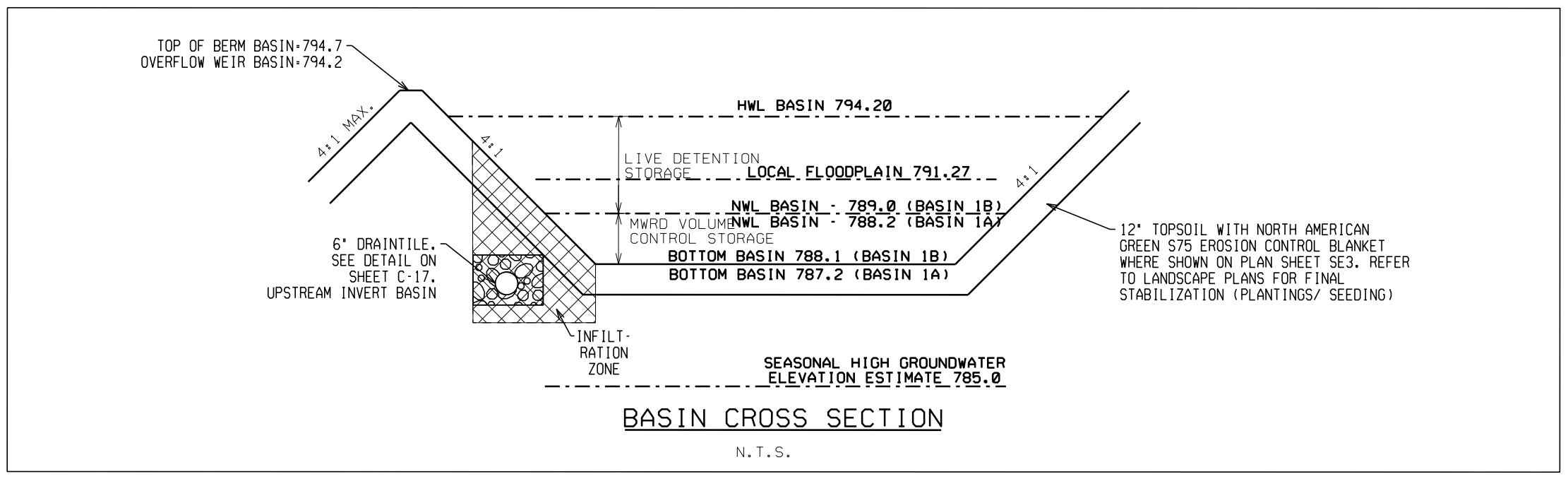


UPSTREAM ACCESS ROAD IS TRIBUTARY TO BASIN
 ACCESS ROAD WAS CONSTRUCTED AND PERMITTED IN 2009 TO SERVE DEVELOPMENT
 TRIBUTARY AREA DETAINED IN BASIN

LIMITS OF EXISTING ON-SITE WETLANDS

ON-SITE AREA TRIBUTARY TO BASIN
 TR-20 ID #011
 A = 25.24 AC.
 TC = 16.7 MIN
 CN=94.10
 RCN=87.59

OUTLET CONTROL STRUCTURE
 SEE DETAIL ON SHEET C-18
 8'-7.95.00
 1'-787.89 (24" EAST)
 1'-787.85 (RESTRICTOR)
 1'-787.85 (24" WEST)



CURVE NUMBER CALCULATIONS:

CN TRIBUTARY TO BASINS=	94.10
CN NATIVE PLANTINGS TO OFF-SITE NOT THROUGH BASIN=	70.0
CN ADJUSTED=	87.59

TIME OF CONCENTRATION CALCULATIONS:

MAXIMUM FLOW LENGTH USED=100FT
 TC TRIBUTARY TO BASINS= 16.7 MIN

LEGEND

- IMPERVIOUS AREA
- PERVIOUS AREA
- UNRESTRICTED NATIVE DEEP-ROOTED VEGETATION TO BE SEEDED PER LANDSCAPE & MITIGATION PLAN
- VOLUME CONTROL AREA

WWRD SUMMARY

SUMMARY:

TOTAL PROPERTY OWNERSHIP = 34.776
 TOTAL DEVELOPMENT AREA = 28.29 AC.
 AREA TRIBUTARY TO BASIN = 25.24 AC.

DETECTION AND RETENTION SUMMARY:

BASIN:
 BASIN BOTTOM= 787.20 BASIN 1A, 788.1 BASIN 1B
 NWL= 788.20 BASIN 1A, 789.0 BASIN 1B
 HWL= 794.20 (BOTH BASINS)
 TAILWATER ELEVATION=791.27 (NVD29)
 FLOODPLAIN FILL (10-100)=0.76 AC-FT
 COMP. STORAGE REQ'D = 0.84 AC-FT
 DETENTION VOLUME PROVIDED= 13.94 AC-FT
 DETENTION VOLUME REQUIRED= 11.11 AC-FT
 COMP. STORAGE PROVIDED = 0.84 AC-FT
 TOTAL STORAGE REQUIRED = 11.95 AC-FT
 RETENTION VOLUME PROVIDED= 1.60 AC-FT
 RETENTION VOLUME REQUIRED= 1.60 AC-FT

PROPOSED PERVIOUS AREA = 4.25 AC.
 PROPOSED IMPERVIOUS AREA = 18.64 AC.
 UPSTREAM ROADWAY = 0.59 (DETAINED IN BASIN)
 NWL AREA = 1.76 AC.
 UNRESTRICTED NATIVE DEEP-ROOTED VEGETATION AREA = 2.79 AC.
 (100 YEAR 24 HR EVENT SUBTRACTED FROM ALLOW RELEASE)

VILLAGE SUMMARY

STORAGE SUMMARY SUMMARY:

BASIN:
 BASIN BOTTOM= 787.20
 NWL= 788.20
 HWL= 794.20
 VOLUME PROVIDED= 15.69 AC-FT
 DETENTION REQUIRED= 14.43 AC-FT
 COMP STO. REQ'D (1.5:1)= 1.14 AC-FT
 TOTAL STORAGE REQ'D = 15.57 AC-FT

RELEASE RATE SUMMARY:

FLOW PER ORDINANCE = 1.06 CFS (STORAGE)
 FLOW PER ORDINANCE = 4.46 CFS (DRAINDOWN)

DGN.	LJS
DWN.	EAT
CHKD.	LJS
SCALE	80'
PLOT DATE	7/16/2015
CAD USER	PRAZALAN
FILE	DRAINAGE EXHIBIT
MODEL	MODEL

TITLE:
 DRAINAGE EXHIBIT
 ABC DEVELOPMENT
 VILLAGE OF XXXX, COOK COUNTY, IL.

PROJ. NO.	130409
DATE	7/01/2015
SHEET OF	
DRAWING NO.	19