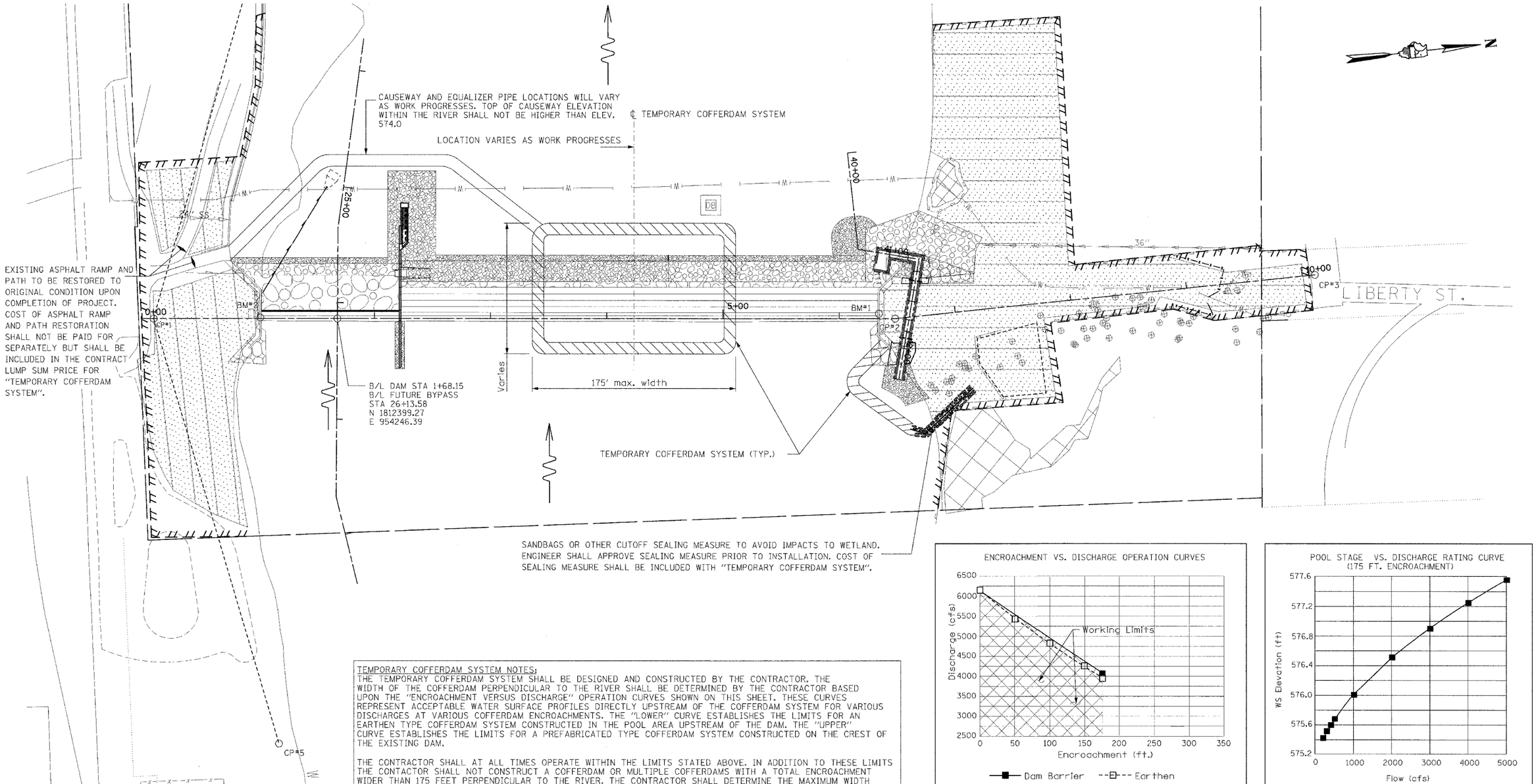

TEMPORARY COFFERDAM SYSTEM NOTES:

THE TEMPORARY COFFERDAM SYSTEM SHALL BE DESIGNED AND CONSTRUCTED BY THE CONTRACTOR. THE WIDTH OF THE COFFERDAM PERPENDICULAR TO THE RIVER SHALL BE DETERMINED BY THE CONTRACTOR BASED UPON THE "ENCROACHMENT VERSUS DISCHARGE" OPERATION CURVES SHOWN ON THIS SHEET. THESE CURVES REPRESENT ACCEPTABLE WATER SURFACE PROFILES DIRECTLY UPSTREAM OF THE COFFERDAM SYSTEM FOR VARIOUS DISCHARGES AT VARIOUS COFFERDAM ENCROACHMENTS. THE "LOWER" CURVE ESTABLISHES THE LIMITS FOR AN EARTHEN TYPE COFFERDAM SYSTEM CONSTRUCTED IN THE POOL AREA UPSTREAM OF THE DAM. THE "UPPER" CURVE ESTABLISHES THE LIMITS FOR A PREFABRICATED TYPE COFFERDAM SYSTEM CONSTRUCTED ON THE CREST OF THE EXISTING DAM.

THE CONTRACTOR SHALL AT ALL TIMES OPERATE WITHIN THE LIMITS STATED ABOVE. IN ADDITION TO THESE LIMITS THE CONTACTOR SHALL NOT CONSTRUCT A COFFERDAM OR MULTIPLE COFFERDAMS WITH A TOTAL ENCROACHMENT WIDER THAN 175 FEET PERPENDICULAR TO THE RIVER. THE CONTRACTOR SHALL DETERMINE THE MAXIMUM WIDTH OF THE COFFERDAM PERPENDICULAR TO THE RIVER BASED UPON THE ENCROACHMENT VS. DISCHARGE OPERATION CURVES. THE CONTRACTOR SHALL NOT BE ALLOWED TO WORK ON MORE THAN TWO SECTIONS (SEE SHEET 16 OF 44) OF THE SPILLWAY AT A TIME.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS IF HE/SHE CHOOSES TO BUILD AND/OR OPERATE THE COFFERDAM SUCH THAT THE UPPER LIMITS ON THE "ENCROACHMENT VERSUS DISCHARGE" OPERATION CURVES ARE VIOLATED, AT NO EXTRA COST TO THE DEPARTMENT.

THE CONTRACTOR SHALL ASSUME ALL RISKS OF DAMAGES TO HIS EQUIPMENT AND MATERIALS CAUSED BY COFFERDAM OVERTOPPING OR FAILURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF HIS PERSONNEL IN THE CASE OF COFFERDAM OVERTOPPING OR FAILURE.

THE COFFERDAM SYSTEM SHALL BE MOVED DOWN TO THE TOP OF THE EXISTING DAM CREST ELEVATION WHEN IT BECOMES EVIDENT THAT THE COFFERDAM SYSTEM WILL VIOLATE THE CRITERIA SET FORTH ABOVE. THE COST OF THIS ADJUSTMENT SHALL BE INCLUDED IN "TEMPORARY COFFERDAM SYSTEM".

TED M. MONTREY
49591
REGISTERED PROFESSIONAL ENGINEER
OF
ILLINOIS

Ted Montrey 10/14/05
Sealed for this sheet only

ENCROACHMENT VS. DISCHARGE OPERATION CURVES

OPERATION CURVE ORDINATES

Type	Encroachment (feet)				
	175	150	100	50	0
Dam Barrier	4,075	—	—	—	6,133
Earthen	3,950	4,250	4,833	5,433	6,150
	Discharge (cubic feet per second)				

POOL STAGE VS. DISCHARGE RATING CURVE
(175 FT. ENCROACHMENT)

RATING CURVE ORDINATES

Flow (cfs)	WS Elev. (ft)
200	575.42
300	575.52
400	575.60
500	575.68
1000	576.01
2000	576.51
3000	576.90
4000	577.25
5000	577.56

0 50' 100' — 1"= 40'

LEGEND

DB DEWATERING BASIN

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
TEMPORARY COFFERDAM SYSTEM	L SUM	1

FR-422

Designed By JJF Checked By TMM
Drawn By JJF Checked By TMM
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