

CPR RW-1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	363	#6	7'-7"	□
h ₁ (E)	6	#5	31'-4"	—
h ₂ (E)	138	#5	33'-6"	—
h ₃ (E)	102	#5	29'-8"	—
h ₄ (E)	34	#5	36'-6"	—
h ₅ (E)	12	#5	24'-6"	—
h ₆ (E)	12	#5	12'-6"	—
h ₇ (E)	24	#5	26'-10"	—
h ₈ (E)	24	#5	28'-9"	—
h ₉ (E)	36	#5	23'-8"	—
h ₁₀ (E)	12	#5	11'-8"	—
h ₁₁ (E)	32	#5	40'-10"	—
n(E)	315	#6	7'-7"	J
n ₁ (E)	480	#9	11'-7"	L
n ₂ (E)	49	#6	8'-7"	J
n ₃ (E)	98	#10	14'-9"	L
n ₄ (E)	149	#8	10'-2"	L
t(E)	60	#7	13'-8"	—
t ₁ (E)	30	#9	13'-8"	—
t ₂ (E)	420	#7	11'-8"	—
t ₃ (E)	210	#8	11'-8"	—
t ₄ (E)	98	#11	21'-8"	—
t ₅ (E)	49	#9	21'-8"	—
t ₆ (E)	224	#8	12'-8"	—
v(E)	15	#6	38'-2"	—
v ₁ (E)	15	#9	38'-2"	—
v ₂ (E)	192	#6	15'-9"	—
v ₃ (E)	192	#9	15'-9"	—
v ₄ (E)	12	#6	21'-4"	—
v ₅ (E)	12	#9	21'-4"	—
v ₆ (E)	13	#6	26'-4"	—
v ₇ (E)	13	#10	26'-4"	—
v ₈ (E)	74	#6	10'-11"	—
v ₉ (E)	74	#8	10'-11"	—
v ₁₀ (E)	12	#6	25'-9"	—
v ₁₁ (E)	12	#10	25'-9"	—
v ₁₂ (E)	12	#6	20'-8"	—
v ₁₃ (E)	12	#10	20'-8"	—
v ₁₄ (E)	18	#6	14'-9"	—
v ₁₅ (E)	18	#9	14'-9"	—

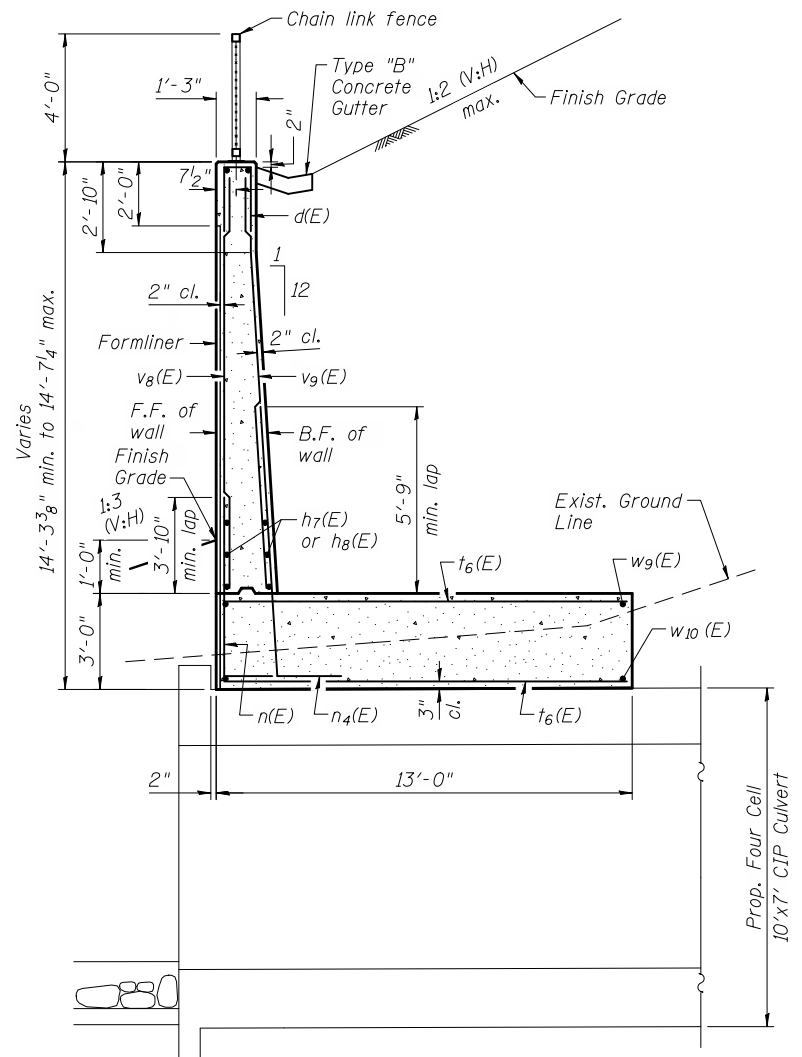
Bar	No.	Size	Length	Shape
w(E)	30	#6	29'-8"	—
w ₁ (E)	156	#6	36'-2"	—
w ₂ (E)	26	#6	10'-2"	└
w ₃ (E)	26	#6	15'-6"	└
w ₄ (E)	52	#6	13'-8"	—
w ₅ (E)	40	#6	11'-8"	—
w ₆ (E)	46	#6	9'-6"	└
w ₇ (E)	46	#6	13'-2"	└
w ₈ (E)	23	#6	29'-7"	—
w ₉ (E)	28	#6	38'-10"	—
w ₁₀ (E)	28	#6	29'-0"	—
w ₁₁ (E)	14	#6	23'-11"	—
w ₁₂ (E)	23	#6	26'-5"	—
w ₁₃ (E)	26	#6	16'-10"	—
Porous Granular Embankment				Cu. Yd. 923
Removal and Disposal of Unsuitable Material for Structures				Cu. Yd. 1,840
Form Liner Textured Surface				Sq. Ft. 5,385
Reinforcement Bars, Epoxy Coated				Pound 142,210
Furnishing Steel Piles HP14x89				Foot 7,350
Driving Piles				Foot 7,350
Test Pile Steel HP14x89				Each 1
Geocomposite Wall Drain				Sq. Yd. 598
Pipe Underdrains for Structures 4"				Foot 414
Chain Link Fence, 4'				Foot 363
Concrete Structures CPR Special				Cu. Yd. 1,176.1

PILE DATA

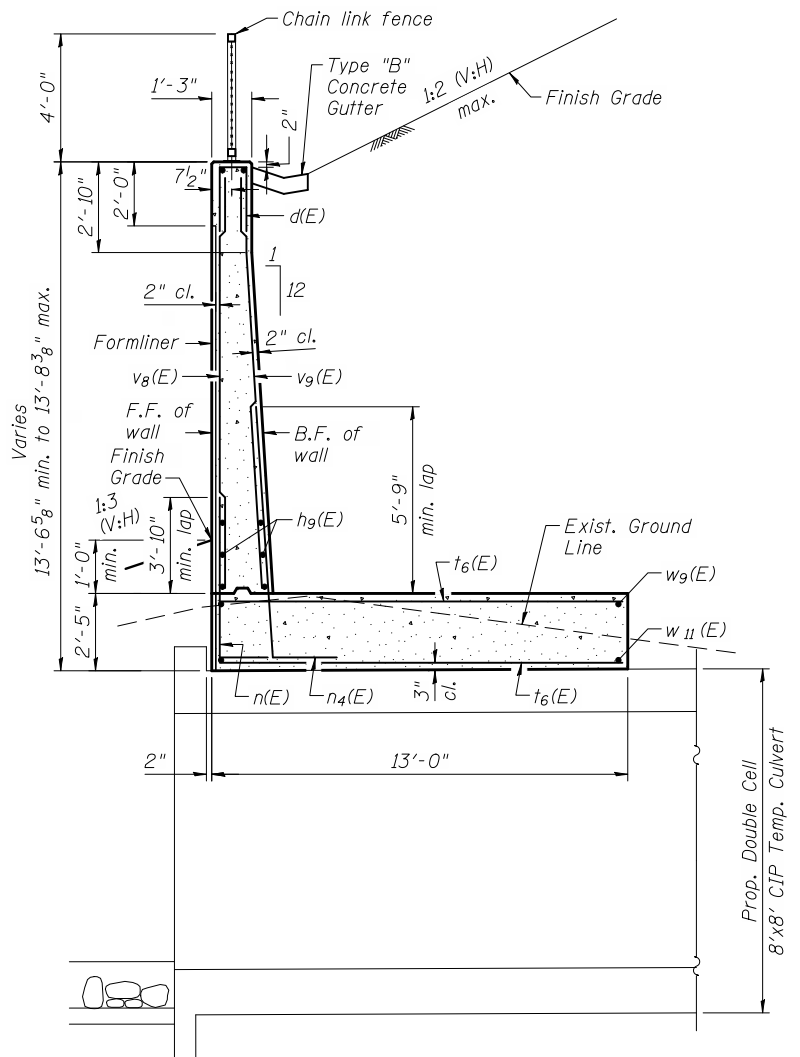
Type: HP14x89
 Min. Tip Elevation: 639.0
 Required Resistance: 356 kips
 Allowable Resistance Available: 178 kips
 Est. Length: 42 feet
 No. Piles: 175 + 1 Test Pile

NOTES:

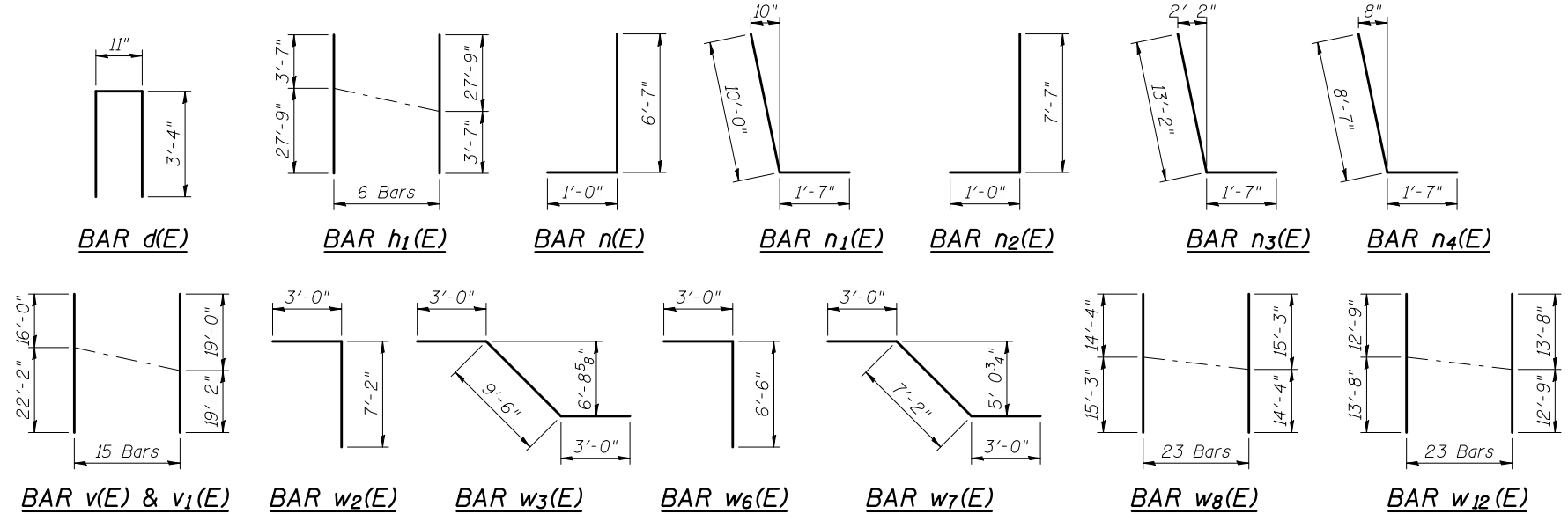
- All piles must be driven to the minimum tip elevation shown. At the minimum tip elevation, driving shall be continued until the required resistance is achieved. "Required resistance" is equivalent to "nominal required bearing" in the IDOT Standard Specifications. The nominal driven bearing, as determined by the pile driving formula specified in Art. 512.14 of the IDOT Standard Specifications and modified by the Special Provisions, must be greater than or equal to the required resistance shown.
- Bars indicated thus 13 x 5-#6 etc. indicates 13 lines of bars with 5 lengths per line.
- Pile driving near the proposed culvert shall be performed prior to culvert construction.



SECTION C-C
(Looking downstation)



SECTION D-D
(Looking downstation)



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11/2/2012 11:31:03 AM



USER NAME = jmlgus	DESIGNED - BWC	REVISED -
FILE NAME = WXXX-60B42-007-WEL.DGN	CHECKED - JAR	REVISED -
PLOT SCALE = NONE	DRAWN - JM	REVISED -
PLOT DATE = 11/2/2012	CHECKED - JAR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CPR RW-1 SECTIONS & BILL OF MATERIAL
CPR RETAINING WALLS

SHEET NO. 12 OF 42 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345A	32VB	DU PAGE	388	214
CONTRACT NO. 60W01				

ILLINOIS FED. AID PROJECT