- 1. Plan dimensions and details relative to existing structure have been taken from field measurements of visible portions of each vault and building. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- 2. Contractor shall retain responsibility for protection and location of utilities in accordance with Article 107.31 of the Standard Specifications. Utilities noted on the drawings and others not observed during design are to be adjusted or relocated in accordance with Article 105.07 of the Standard Specifications. Any interruption to building services shall be scheduled with input from the building Owner and authorized by the Engineer. Interruptions shall be limited to a maximum of two (2) hours.
- 3. Reinforcement bars shall conform to the requirements of AASHTO M31, M42 or M53 Grade 60.
- 4. Minimum lap splice for #4 and #5 reinforcement bars is 12".
- 5. The back face of retaining walls shall be waterproofed according to Article 503.18 of the Standard Specifications.
- 6. All construction joints shall be bonded.
- 7. Concrete masonry units (where indicated on plan) shall conform to the Special Provisions.
- 8. Concrete work shall conform to applicable portions of Section 503 with the following additional requirements:- Where concrete is poured against an existing building or Masonry Wall Construction, bracing or cross ties shall be supplied to carry pressure from the fluid concrete or the rate of pour shall be such that no more than two (2) vertical feet of concrete per hour shall be placed. If cross ties are used, wales shall be placed on the interior wall surface to prevent pullout. All wale and tie material shall be removed from the basement and damage to the existing wall shall be patched to the satisfaction of the Engineer when the forms are removed.
- 9. Some of the work indicated is on private property. In addition to coordinating access with the owner, the Contractor shall be responsible for obtaining appropriate building permits and approvals from the local building official with jurisdiction.
- 10. In addition to requirements set forth in Article 107.09, pedestrian traffic shall be protected during construction in accordance with Section 3306 of the 2000 International Building Code.
- 11. Traffic Control and Protection shall conform to Traffic Control and Protection, Standard 701801.

 TOTAL BILL OF MATERIAL

 CODE NO.
 TIEM
 UNIT
 QUANTITY

 20800150
 TRENCH BACKFILL
 CU YD
 15

 50100200
 REMOVAL OF EXISTING STRUCTURES
 L SUM
 1

 50300225
 CONCRETE STRUCTURES
 CU YD
 6

 50800105
 REINFORCEMENT BARS
 POUND
 360

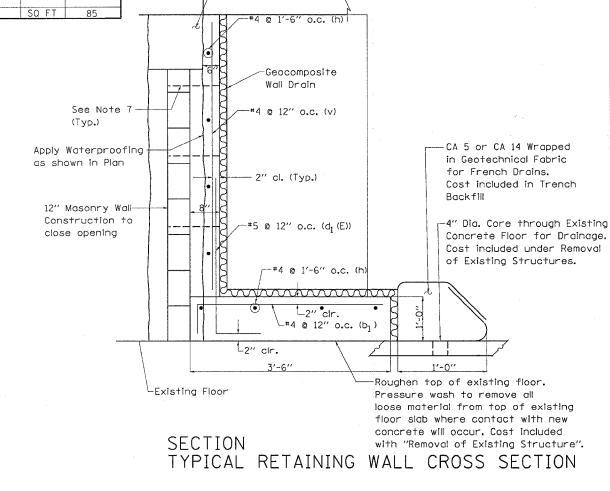
 50800205
 REINFORCEMENT BARS, EPOXY COATED
 POUND
 70

 59100100
 GEOCOMPOSITE WALL DRAIN
 SQ YD
 15

 Z0034100
 MASONRY WALL CONSTRUCTION
 SQ FT
 85

BILL OF BARS

	185				High	
Bar	No.	Size			(FT)	Shap
h1	7	# 4		4'-8		
vi i	5	# 4	6′-8"			
d	6	# 4		1'-3''		
Reinf Bars	orcen	nent		Poul	nd	50
	130) West	Linc	oln	High	way
Bar	No.	Size	Len	gth	(FT)	Shap
h2	6	# 4	4'-2''			
v2	5	# 4			-8′′	
d	6	# 4		1'	-3′′	
Reinf	orcen	nent Bo	ors	Ροι	und	40
Bar	100 No.) East Size			Hìgh (FT)	
h3	7	# 4		5′	-8"	
v3	11	# 4		9'	-8''	
b1	11	# 4		3′	-10"	
d1 (E)		# 5			-6"	
		nent Bo	ors	1	und	130
	orcen		ors,	Ро	und	50
	117	7 Fast	Lino			
Bar	No.	Size	Len	oln gth	High (FT)	way Shap
Bar h4			Len	<u>gth</u>	High (FT) -8"	way Shap
	No.	Size	Len	gth 6'	(FT)	way Shap
h4 v4	No. 8 5	Size # 4	Len	gth 6' 3'	(FT) -8" -10"	way Shap
h4 v4 b1	No. 8 5 5	# 4 # 4 # 4	Len	gth 6' 3' 3'	(FT) -8" -10" -10"	Shap
h4 v4 b1 d1 (E)	No. 8 5 5 5	# 4 # 4 # 4 # 5	Len	gth 6' 3' 3' 4'	(FT) -8" -10" -10" -6"	Shap
h4 v4 b1 d1 (E) Reinf	No. 8 5 5 concent	# 4 # 4 # 4 # 5 nent Bo	Len	gth 6' 3' 3' 4'	(FT) -8" -10" -10"	Shap
h4 v4 b1 d1 (E)	No. 8 5 5 concentration	# 4 # 4 # 4 # 5 nent Bo	Len	9th 6' 3' 3' 4' Po	(FT) -8" -10" -10" -6"	Shap
h4 v4 b1 d1 (E) Reinf	No. 8 5 5 concentration	# 4 # 4 # 5 nent Bo	Jrs	9th 6' 3' 4' Po	(FT) -8" -10" -10" -6" und	Shap
h4 v4 b1 d1 (E) Reinf	No. 8 5 5 cremorcem	# 4 # 4 # 5 nent Boted	ars ars,	9th 6' 3' 4' Po Poi	(FT) -8" -10" -10" -6" und und	Shap
h4 v4 b1 d1 (E) Reinf Reinf Epoxy	No. 8 5 5 concentration or centration or ce	# 4 # 4 # 5 nent Boted 4 East	ars ars,	gth 6' 3' 4' Po Poi oln gth 4'	(FT) -8" -10" -10" -6" und und High (FT) -2"	60 20
h4 v4 b1 d1 (E) Reinf Reinf Epoxy	No. 8 5 5 5 orcen orcen / Coa 13 No. 7	# 4 # 4 # 5 nent Boted 4 East	ars ars,	gth 6' 3' 4' Po Poi oln gth 4'	(FT) -8" -10" -10" -6" und und High (FT) -2"	60 20
h4 v4 b1 d1 (E) Reinf Reinf Epoxy Bar h2	No. 8 5 5 concentration or centration (Code) 134 No.	# 4 # 4 # 5 ment Boted # East Size # 4	ars ars,	9th 6' 3' 4' Po Poi oln 9th 4' 6'	(FT) -8" -10" -10" -6" und und High	60 20
h4 v4 b1 d1 (E) Reinf Reinf Epoxy Bar h2 v1 d	No. 8 5 5 5 orcen orcen / Cod 13 No. 7 5 6	Size	Len ors ors, Linc	9th 6' 3' 4' Po Poin oin 4' 6' 1'	(FT) -8" -10" -6" und und High (FT) -8" -3"	Shap 60 20 way Shap
h4 v4 b1 d1 (E) Reinf Reinf Epoxy Bar h2 v1 d Reinf	No. 8 5 5 5 orcen orcen 7 Cod 13 No. 7 5 6 orcen	# 4 # 5 ment Bated # East Size # 4 # 5 Size # 4 # 5 Size # 4 # 4 # 4 # 4 # 4 Ment Bate Bate	Linco	9th 6' 3' 4' Po Poin 9th 4' 6' 1' Pou	(FT) -8" -10" -10" und und High (FT) -2" -8" -3" Und	Shap 60 20 way Shap 50
h4 v4 b1 d1 (E) Reinf Epoxy Bar h2 v1 d Reinf	No. 8 5 5 5 orcen orcen 7 Cod 13 No. 7 5 6 orcen	# 4 # 5 ment Boted # East Size # 4 # 4 # 5	Linco	9th 6' 3' 4' Po Poin 9th 4' 6' 1' Pou	(FT) -8" -10" -10" und und High (FT) -2" -8" -3" Und	Shap 60 20 way Shap 50
h4 v4 b1 d1 (E) Reinf Reinf Epoxy Bar h2 v1 d Reinf	No. 8 5 5 5 orcen orcen 7 Cod 13 No. 7 5 6 orcen	# 4 # 5 ment Bated # East Size # 4 # 5 Size # 4 # 5 Size # 4 # 4 # 4 # 4 # 4 Ment Bate Bate	Linco	9th 6' 3' 4' Po Poin 9th 4' 6' 1' Pou	(FT) -8" -10" -10" und und High (FT) -2" -8" -3"	Shap 60 20 way Shap 50
h4 v4 b1 d1 (E) Reinf Epoxy Bar h2 v1 d Reinf	No. 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	# 4 # 5 ment Boted # 4 East Size # 4 # 4 # 5 Size # 6 Fize Fize	Linco	9th 6' 3' 3' 4' Po Poil 9th 4' 6' 1' Poil 9th 3' 5'	(FT) -8" -10" -10" -6" und High (FT) -2" -8" -3" Jund High (FT) -2" -8"	Shap 60 20 way Shap 50
h4 v4 b1 d1 (E) Reinf Epoxy Bar h2 v1 d Reinf Bar h5	No. 8 5 5 5 5 0 or cent 13 No. 7 5 6 0 or cent 190 No. 6	# 4 # 4 # 5 # 5 East Bate Bate	Linco	9th 6' 3' 3' 4' Po Poil 9th 4' 6' 1' Poil 9th 3' 5'	(FT) -8" -10" -10" -6" und und High (FT) -3" und High (FT) -2"	Shap 60 20 way Shap 50



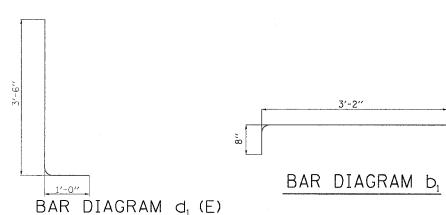
Face of

Buildina

-Existing Wall

-Top of Proposed

Sidewalk



DESIGN LOADS

f'c = 3,500 psif'm = 1,500 psi

fy = 50,000 psi (Structural Steel)

fy = 60,000 psi (Reinforcement)

DESIGN STRESSES

Equiv. Fluid Pressure = 40 pcf (Vertically Cantilevered Wall)

Equiv. Fluid Pressure = 60 pcf (Wall Restrained Top and Bottom)

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE

CHECKED BY

CONTRACT NO. 64517

RTE. SECTION COUNTY TOTAL SHEET NO.

FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

LOT DATE = Fr. Sep 02 03-02:28 2005 LIE NAME = cr. br. o.jers s. p. 201708 v. d01708 p.j. dg. LOT SCALE = 22.0000 v. / IN. SSEN MAME = cushments