Final Report of Structural Special Inspections

Project: *Sheridan Heights*

Location: *135 Sheridan St.; Portland Maine*

Owner: *Sheridan St., LLC*

Structural Design Professional in Responsible Charge: *David A. Price, PE / Price Structural Engineers, Inc.*

Date: *September 30, 2008*

To whom is may concern:

To the best of my information, knowledge and belief, the *Structural Special Inspections* required for this project have been performed and discovered discrepancies have been reported and resolved. Copies of statements, field reports, tests and inspections are included with this report.

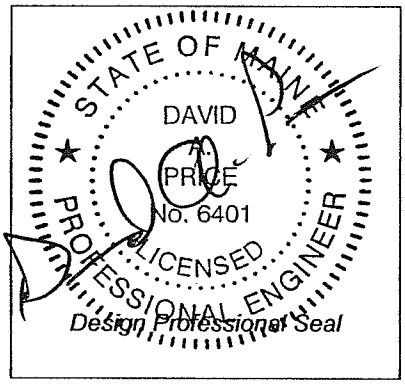
Comments:

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
Special Inspector

David A. Price, PE
Price Structural Engineers, Inc.
(type or print name)

D A P 9/30/08
Signature Date



MAINE OXY

22 Albiston Way
Auburn, Maine 04210

800-639-1108 Fax (207) 784-5240

Precision Welding & Fab
690 Stroudwater St.
Westbrook, Me. 04092

Dec. 11, 2007

Independent review of steel fabricator. Full report available upon request. -DAP

RE: AWS D1.1 Review per Price Engineering

Sol,

I have completed my review of your weld shop regarding compliance with AWS D1.1 standards. The following have been either found to be acceptable, or brought up to standard.

- ✓ **WPS's** have been reviewed, and new WPS's updated for welding procedures.
- ✓ **Welder Certifications** reviewed, and new welders tested into compliance
- ✓ **Gas Mixtures** and flow rates checked and verified
- ✓ **Procedures** checked and verified to WPS with digital meters
- ✓ **Welding Wire** checked and verified to WPS
- ✓ **Welding Electrode** storage checked and verified
- ✓ **Base Materials** checked and verified to AWS pre approved table 3.1
- ✓ **Temperatures** checked to comply with table 3.2 (pre qualified min. Preheat / interpass)
- ✓ **Spot check visual inspection**, welds comply to print requirements.

This report will conclude my review. Should you require further assistance, I will be happy to make my time available to you.

Sincerely,

Brad Wells

Brad Wells

Quality Assurance Labs Inc.
NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES
80 PLEASANT AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 • FAX: (207) 799-7251

November 9, 2007

Sheridan Street LLC
477 Congress Street Suite 1012
Portland, Maine 04101

Ref: Sheridan Heights

Attn: Greg Shinberg

Dear Sir,

On 11/23/07, a site visit was made at the Sheridan Heights Project in Portland Maine. A complete walk through was performed with David Price and Bob Cuddy. Please note below the connections inspected and results:

BOLTS

All bolted connections including anchor bolts were inspected at lines AA-N thru 1-8. Two bolts at line 8I could not be snapped due to the fact they could not get TC gun in that area. These will be tightened by hand and marked HT. Remainder complete.

WELDS – Lines AA-NN thru 1-8

Beam seat to CMU where required. – Complete
Decking welds and Fasteners – Complete
Shear studs – Complete.

All completed items are IAW AWS D1.1, D1.3, and site drawings.

If any additional information is needed or you have any questions, please advise.

Best Regards,

Arthur Gallant
CWI# 90100091

masonry - Message (HTML)

File Edit View Insert Format Tools Actions Help

Reply | Reply to All | Forward

From: Roger Domingo [rdomingo@swcole.com] Sent: Thu 12/6/2007 1:54 AM
To: 'Greg Shinberg'; pricestructural; William Cuddy
Cc:
Subject: masonry

Attachments: 10-17-07 Masonry Obs Report.pdf (20 KB); 10-27-07 Masonry Obs Report.pdf (20 k
Masonry Photos 10-19-07.pdf (351 KB); Masonry Photos 10-24-07.pdf (295 KB);
Masonry Photos 10-25-07.pdf (267 KB); Masonry Prism.pdf (103 KB); 792-13BC

Attached are masonry construction observations, photos and test results.

Roger E. Domingo
Construction Services Manager

S. W. Cole Engineering, Inc.
286 Portland Road
Gray, ME 04039-9586

Phone: (207) 657-2866
Fax: (207) 657-2840
Cell: (207) 615-2762
E-mail: rdomingo@swcole.com

MASONRY

S.W.COLE ENGINEERING, INC.

www.swcole.com

1036 items

Start | Inbox - Microsoft Out... | masonry - Message (... | Adobe Rea...

S.W.COLE ENGINEERING, INC.

Report of Grout Specimen Compressive Strength

ASTM C1019

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING
Project Number: 06-1271.1
Client Contract Number:
Client: SHERIDAN STREET, LLC
General Contractor:
Supplier:

PLACEMENT INFORMATION

Date Cast: 12/21/2007 **Time Cast:** 8:55 **Date Received:** 12/23/2007
Placement Location: ELEVATOR PIT, ELEVATION 123' TO 144' - 0"

Placement Method: WHEEL BARROW
Placement Vol. (yd^3):
Cylinders Made By: PEC
Aggregate Size (in):

INITIAL CURING CONDITIONS

Temperatures
Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures:

TEST RESULTS

Slump (in) (C-143): 6
Air Temp (°F): 58
Grout Temp (°F) (C-1064): 58
Batch Number:
Mixer Number:
Ticket Number:
Design (psi): 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
792-20A	10.56	12/28/2007	**7**	27.1	**2570**
792-20B	10.56	1/18/2008	**28**	48.7	**4610**
792-20C	10.56	1/18/2008	**28**	51.1	**4840**
792-20D		2/15/2008	**56**		

Remarks:

S.W.COLE ENGINEERING, INC.

Report of Grout Specimen Compressive Strength

ASTM C1019

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING
Project Number: 06-1271.1
Client Contract Number:
Client: SHERIDAN STREET LLC
General Contractor:
Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/23/2007 **Time Cast:** 11:00 **Date Received:** 10/24/2007
Placement Location: CELLS - WALL LINE G, LINE 8

Placement Method: GROUT HOG/ AUGER
Placement Vol. (yd^3): 4
Cylinders Made By: VLT
Aggregate Size (in): NA

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: NA

TEST RESULTS

Slump (in) (C-143):
Air Temp (°F): 63
Grout Temp (°F) (C-1064): 70

Batch Number: 1
Mixer Number: 78
Ticket Number: 135114
Design (psi): 3000

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
792-13A	10.56	10/30/2007	7	24.0	2270
792-13B	10.56	11/20/2007	28	46.9	4440
792-13C	10.56	11/20/2007	28	44.1	4180
792-13D					

Remarks:

S.W.COLE ENGINEERING, INC.

Masonry Construction Observation Report

Project Name/Location:	Sheridan Heights/Portland	**Project No:**	06-1271.1
Client/Client's Rep.:	Sheridan Street LLC	**Date:**	10/17/07
Masonry Contractor:	AP Masonry	**Sheet:**	1
Placement Location:	Wall lines G & 8	**SWCE Rep.:**	VLT

Referenced Drawings	Date	Page	Revision	Comments
HarMac	6/29/07	R2	8/6/07	W1-W4

Materials

Masonry Construction			
Proportioning of site-mixed mortar	Yes ☐	No ☐	16 sand to 1 bag cement
Construction of mortar joints	Yes ☒	No ☐	
Placement of masonry units	Yes ☒	No ☐	
Location of reinforcement and connectors, ties	Yes ☒	No ☐	Installed
Unfinished masonry covered to protect from the weather	Yes ☒	No ☐	Adequate
Cold-weather or Hot-weather construction?	Yes ☐	No ☐	Adequate
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes ☐	No ☐	
Flashing installation – *material and placement*	Yes ☐	No ☐	
Weeps – *material and placement*	Yes ☐	No ☐	
Grouting			
Grout space observed prior to grouting	Yes ☐	No ☐	
Proportions of site-mixed grout	Yes ☐	No ☐	
Placement of reinforcement and connectors	Yes ☐	No ☐	
Placement of grout (*consolidation, reconsolidation)*	Yes ☐	No ☐	
Embedded items and accessories installation	Yes ☐	No ☐	

Non Conformance Items Observed	Yes ☐	No ☒
Non Conformance Item Description:		
Action Taken by SWCE:		
Person(s) Notified:		

FIELD TESTING PERFORMED	Mortar ☐	Grout ☐
SET NO:		

Notes: Reinforcing & masonry observations elev. 123' to 128'.

Attachments: None

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Masonry Construction Observation Report

Project Name/Location:	Sheridan Heights/Portland	**Project No:**	06-1271.1
Client/Client's Rep.:	Sheridan Street LLC	**Date:**	10/23/07
Masonry Contractor:	AP Masonry	**Sheet:**	1
Placement Location:	Wall lines G & 8	**SWCE Rep.:**	VLT

Referenced Drawings	Date	Page	Revision	Comments
HarMac	6/29/07	R2	8/6/07	W1-W4

Materials

Masonry Construction			
Proportioning of site-mixed mortar	Yes ☐	No ☐	16 sand to 1 bag cement
Construction of mortar joints	Yes ☒	No ☐	
Placement of masonry units	Yes ☒	No ☐	
Location of reinforcement and connectors, ties	Yes ☒	No ☐	Installed
Unfinished masonry covered to protect from the weather	Yes ☒	No ☐	Adequate
Cold-weather or Hot-weather construction?	Yes ☐	No ☐	Adequate
If yes, were requirements of ACI 530.1 Part 1.8 conditions met?	Yes ☐	No ☐	
Flashing installation – *material and placement*	Yes ☐	No ☐	
Weeps – *material and placement*	Yes ☐	No ☐	
Grouting			
Grout space observed prior to grouting	Yes ☒	No ☐	Clean
Proportions of site-mixed grout	Yes ☐	No ☐	Redi-mixed
Placement of reinforcement and connectors	Yes ☒	No ☐	#5 @32" & #9 @ columns, stirrups
Placement of grout (*consolidation, reconsolidation)*	Yes ☒	No ☐	Low lift
Embedded items and accessories installation	Yes ☐	No ☐	

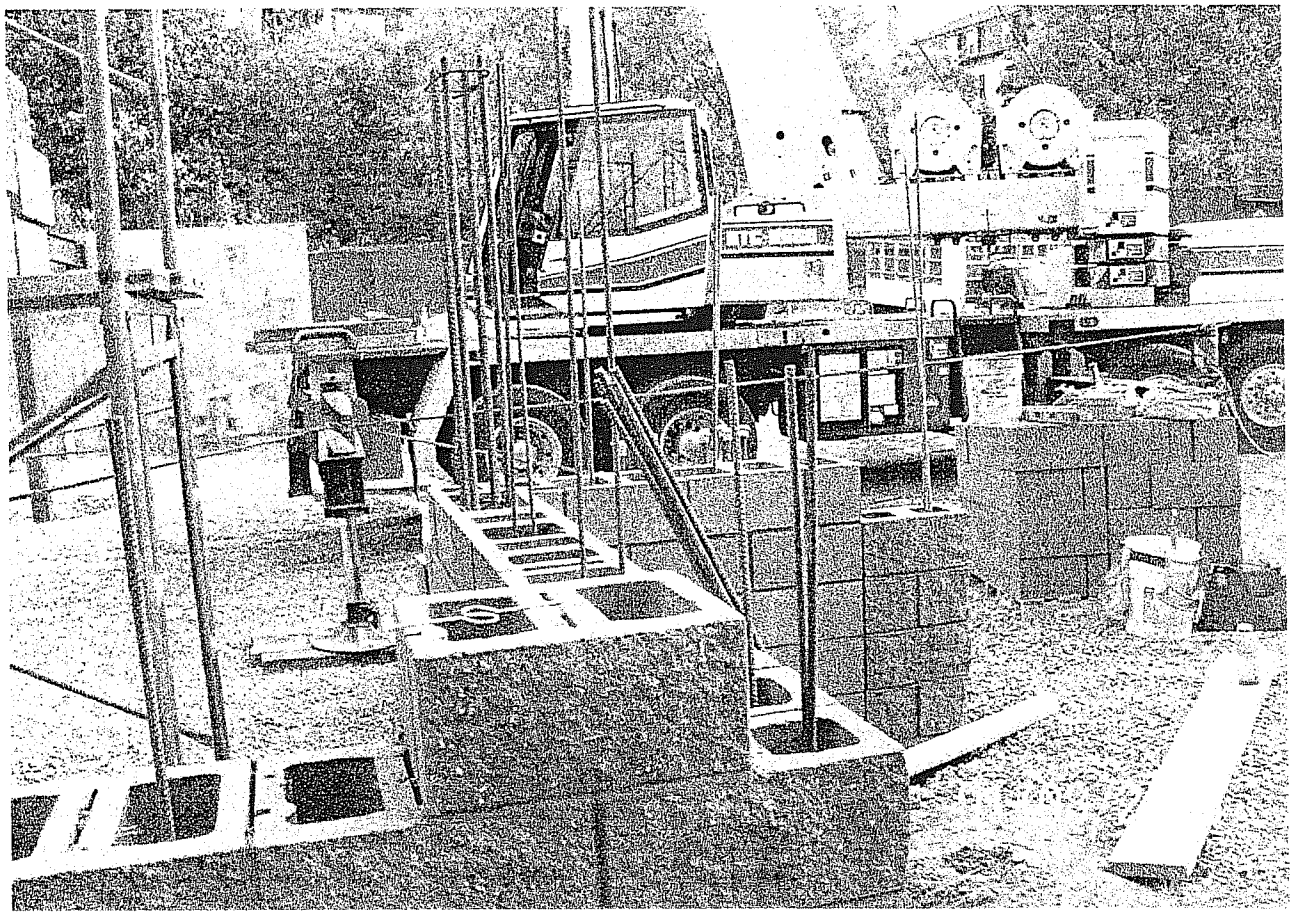
Non Conformance Items Observed	Yes ☐	No ☒
Non Conformance Item Description:		
Action Taken by SWCE:		
Person(s) Notified:		

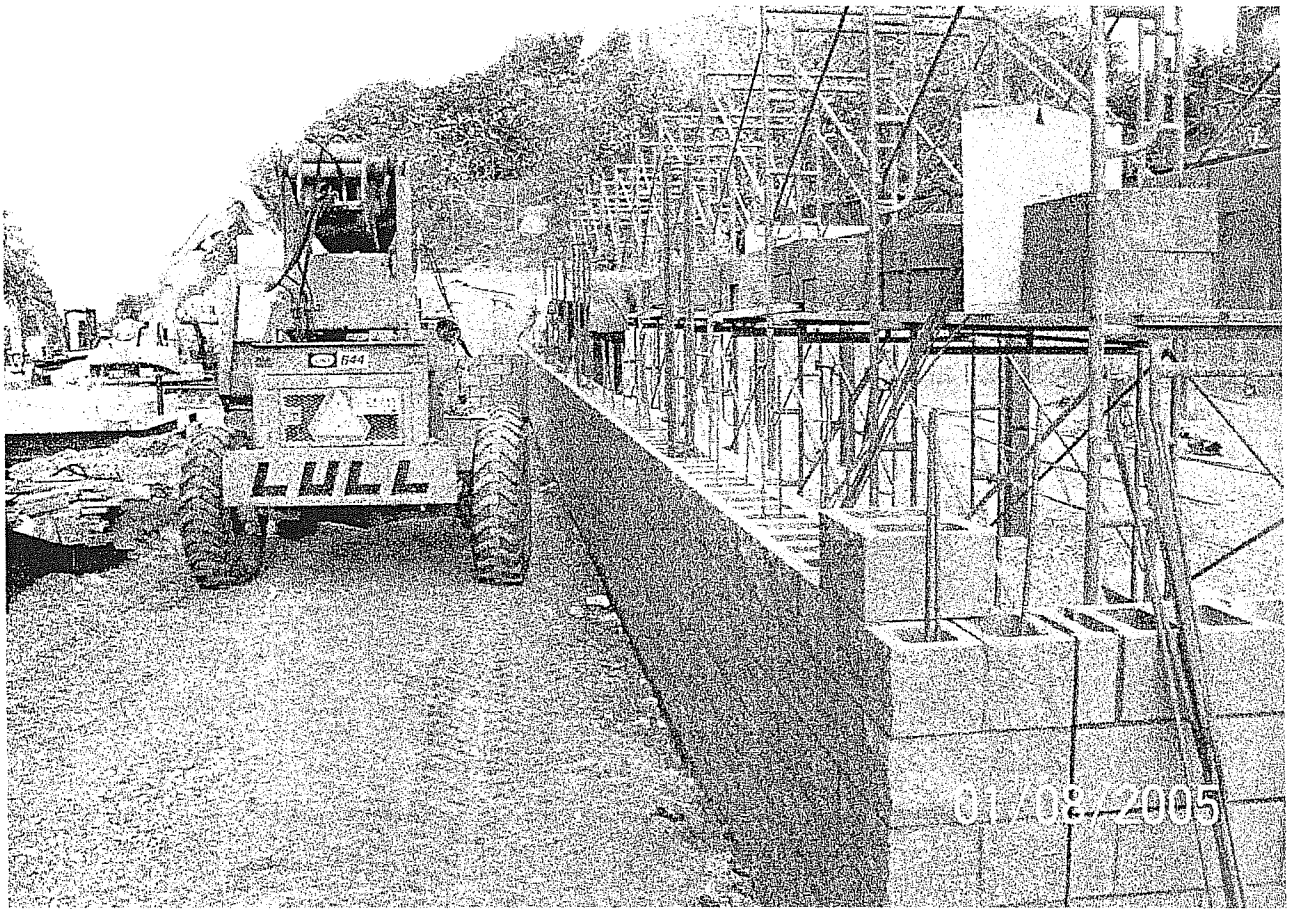
FIELD TESTING PERFORMED	Mortar ☐	Grout ☒
SET NO:		792-13

Notes: Grout supplied by Auburn concrete. Lift placement from elev. 123' to 128'.

Attachments: None

Reviewed By: RED

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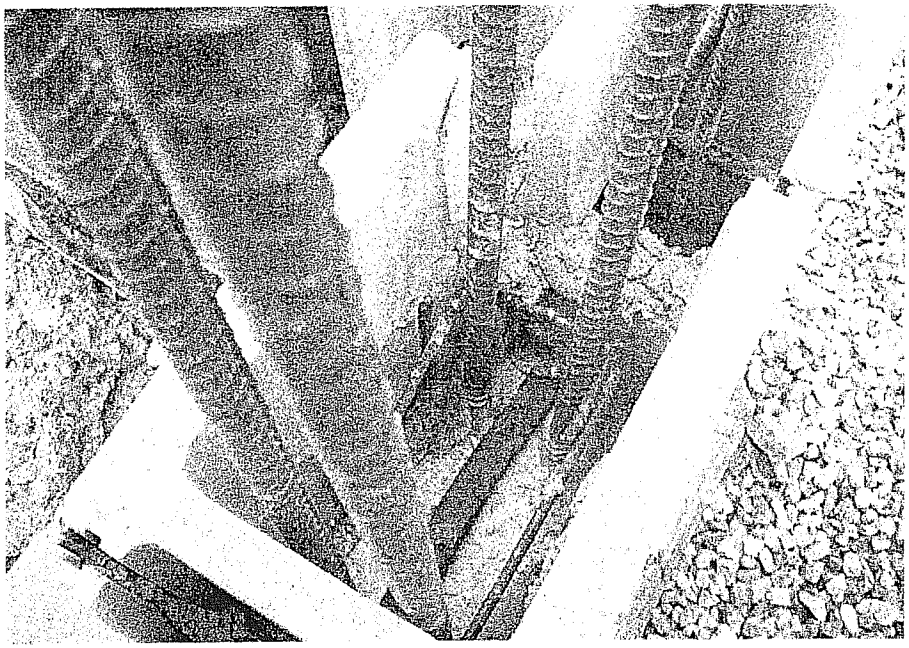
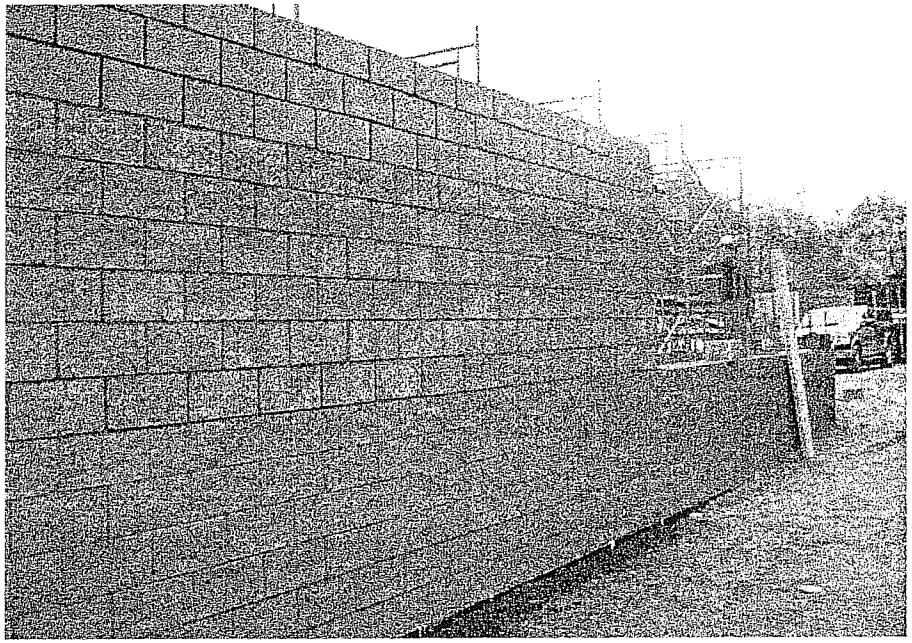
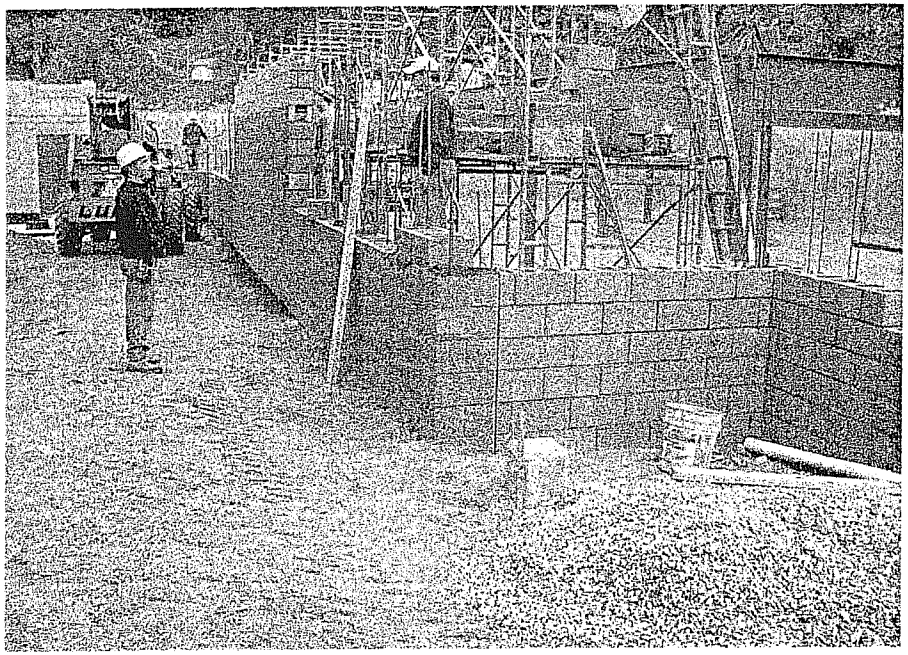
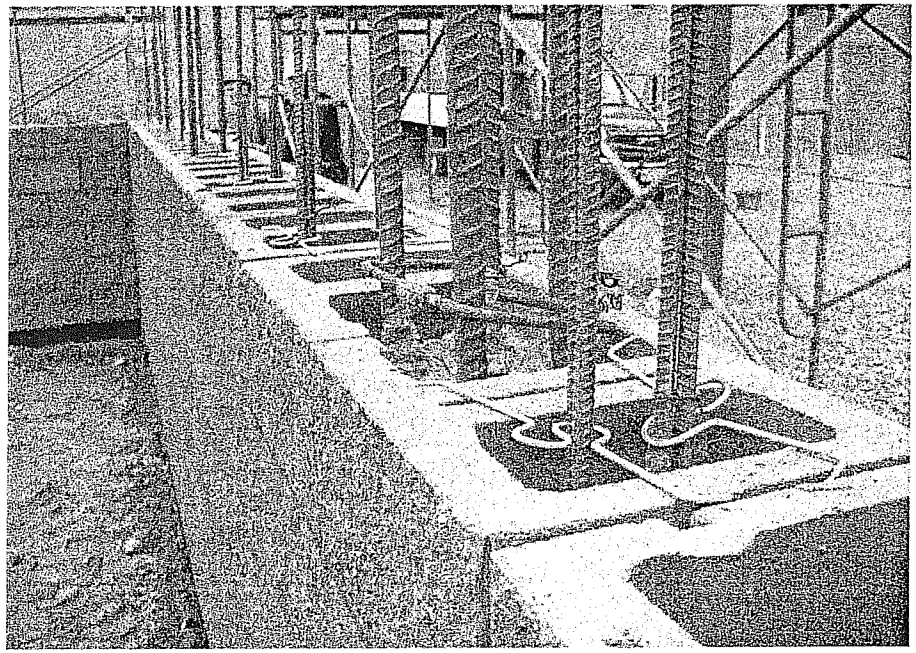
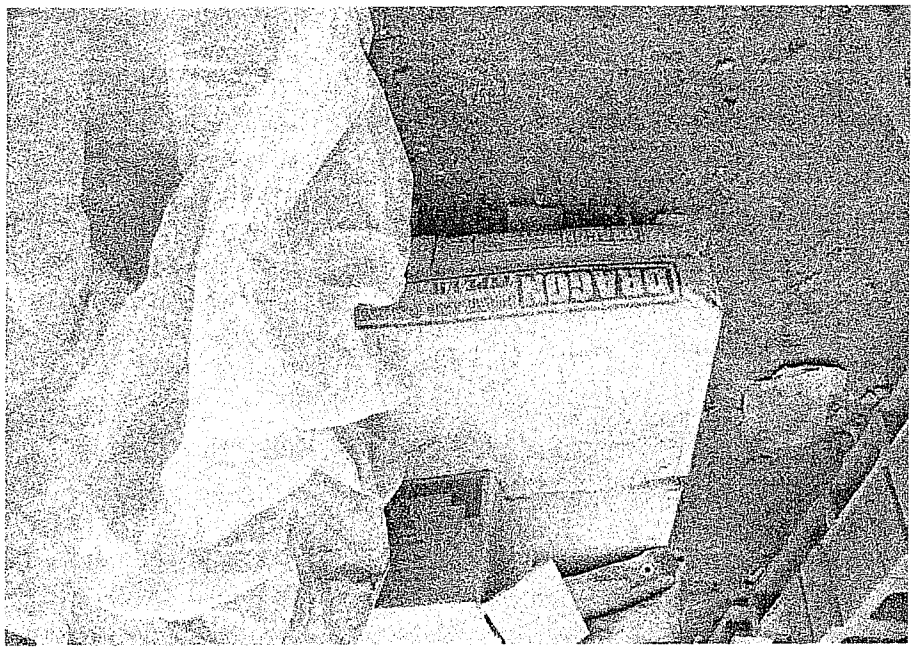
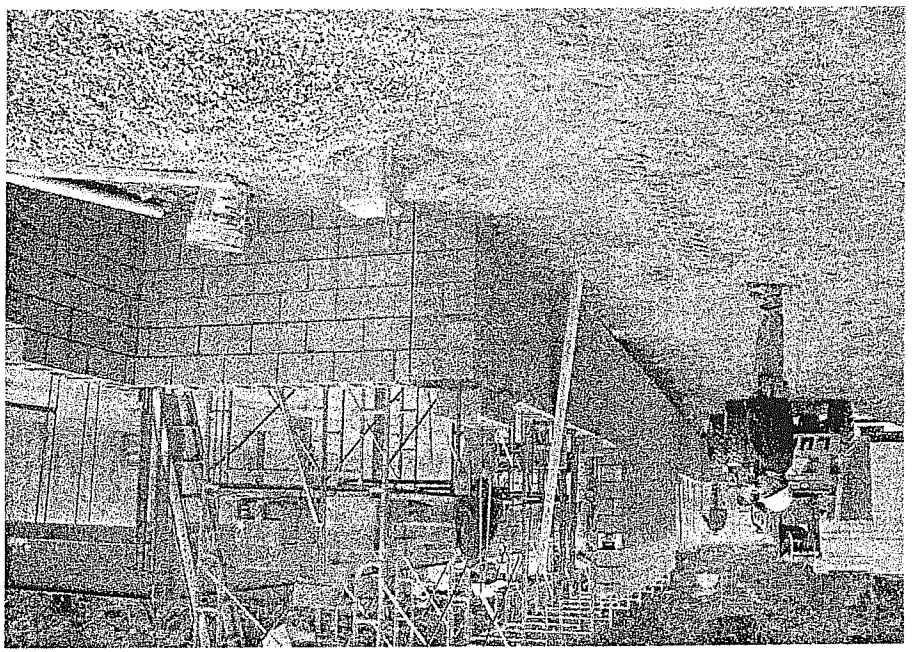


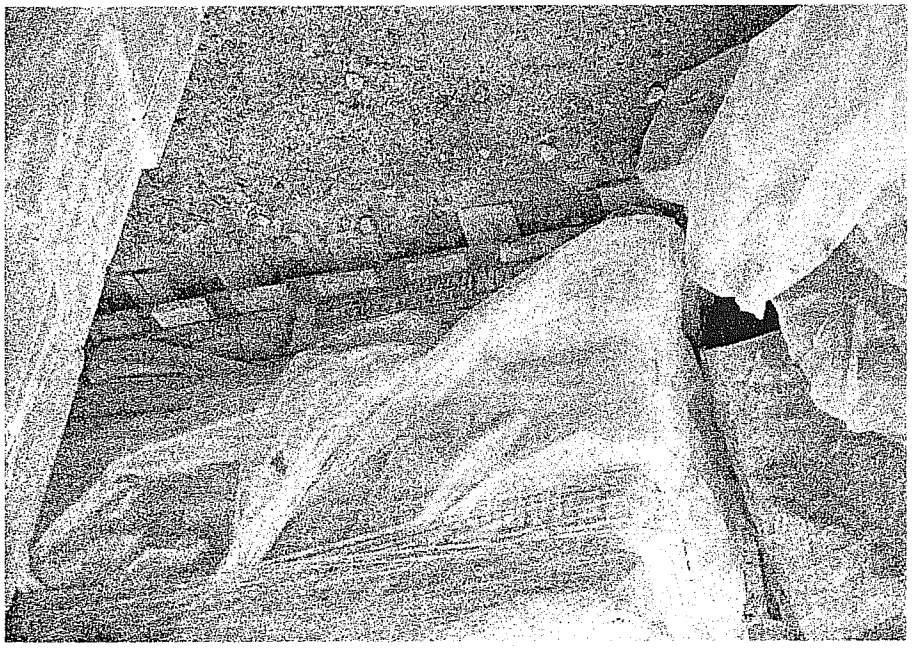


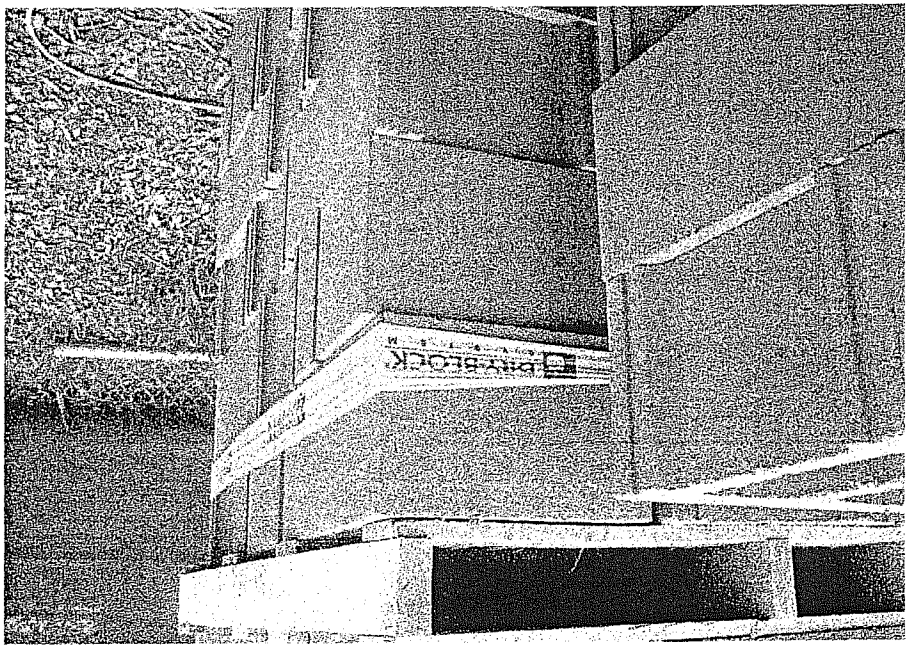












S.W.COLE ENGINEERING, INC. • Geotechnical Engineering • Field & Lab Testing • Scientific & Environmental Consulting

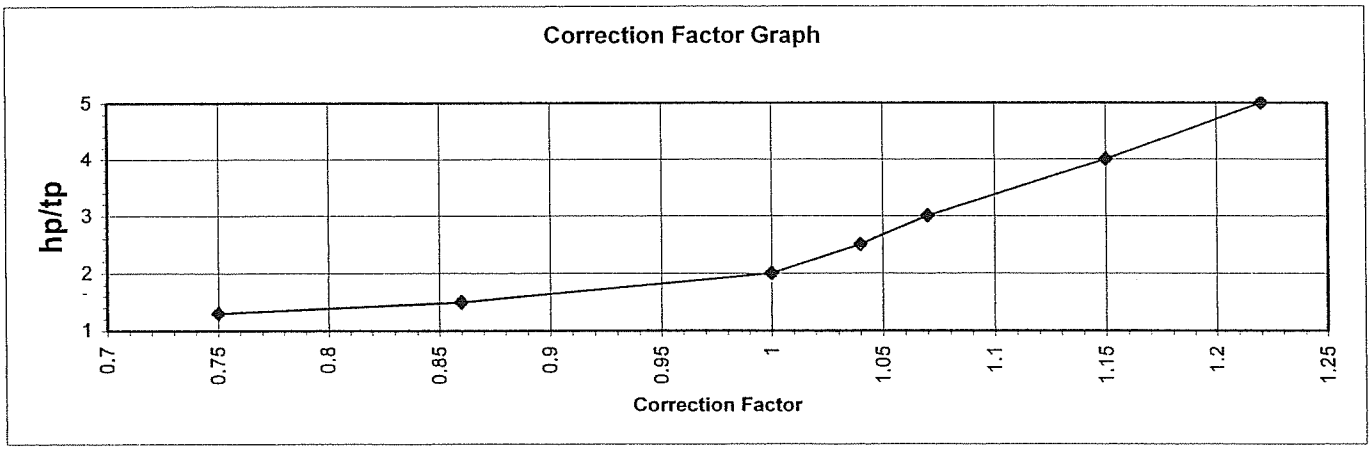
Report of Masonry Prism Compressive Strength Test
ASTM C1314

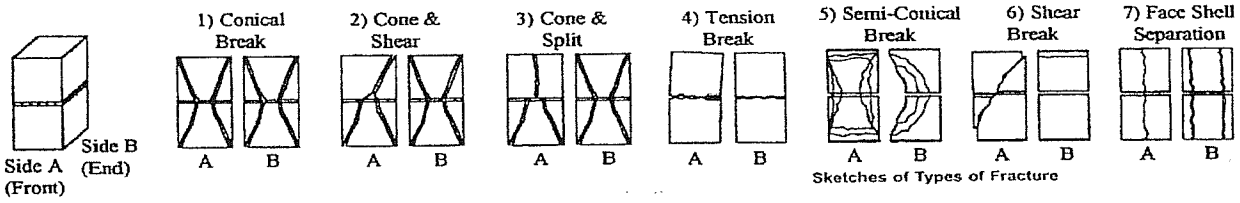
Project No.: 06-1271.1 **Project Name:** Sheridan Heights

Client: Sheridan Street LLC **Date Specimens Made:** 11/23/2007

Masonry Unit: Grouted Hollow Core CMU

Lab ID	Spec. Age (Days)	Length (in)	Width (in)	Capped Height (in)	h_p/t_p Ratio	Net Area (in^2)	Gross Area (in^2)	Load (kips)	Initial Strength (psi)	Correction Factor	Strength (psi)	Break Type
792-14A	7	11.75	7.75	15.00	1.9	91.06	91.06	150.6	1650	1.0	**1650**	7
792-14B	28	11.75	7.75	15.25	2.0	91.06	91.06	257.2	2825	1.0	**2825**	7
792-14C	28	11.75	7.75	15.25	2.0	91.06	91.06	260.0	2860	1.0	**2860**	6





Sketches of Types of Fracture

Remarks:

Reviewed By: Roger Domingo

S.W.COLE ENGINEERING, INC.

Report of Grout Specimen Compressive Strength

ASTM C1019

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING
Project Number: 06-1271.1
Client Contract Number:
Client: SHERIDAN STREET LLC
General Contractor:
Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/23/2007 **Time Cast:** 11:00 **Date Received:** 10/24/2007
Placement Location: CELLS - WALL LINE G, LINE 8

Placement Method: GROUT HOG/ AUGER
Placement Vol. (yd^3): 4
Cylinders Made By: VLT
Aggregate Size (in): NA

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: NA

TEST RESULTS

Slump (in) (C-143):
Air Temp (°F): 63
Grout Temp (°F) (C-1064): 70

Batch Number: 1
Mixer Number: 78
Ticket Number: 135114
Design (psi): **3000**

Specimen Designation	Area(In)²	Date Of Test	Age (days)	Load (kips)	Strength (psi)
792-13A	10.56	10/30/2007	**7**	24.0	**2270**
792-13B	10.56	11/20/2007	**28**	46.9	**4440**
792-13C	10.56	11/20/2007	**28**	44.1	**4180**
792-13D					

Remarks:

286 Portland Road, Gray, ME 04039-9586 • Tel (207) 657-2866 • Fax (207) 657-2840 • www.swcole.com

S.W.COLE ENGINEERING, INC.

FIELD REPORT

Project Name: Sheridan Heights
Client: Sheridan Street LLC
Client's Rep.: Greg Shinberg
Contractor: Portland Builders

Project No: 06-1271.1
Date: July 19, 2007
Page: 1 of 1
Arrived at Site: 8:30 AM
Left Site: 4:30 PM
Technician: Corey Tielinen

Weather			Site Conditions	
☑ Clear	☐ Snow	☐ Warm	☑ Clear	☐ Dusty
☐ Overcast	☐ Fog	☐ Hot	☐ Muddy	☐ ____
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:

Worked performed by SWCE		☐ Site Meeting	☐ Field Testing	☑ Observations Subgrade
☐ Soil	☐ Concrete	☐ Masonry	☐ Asphalt	☐ _____

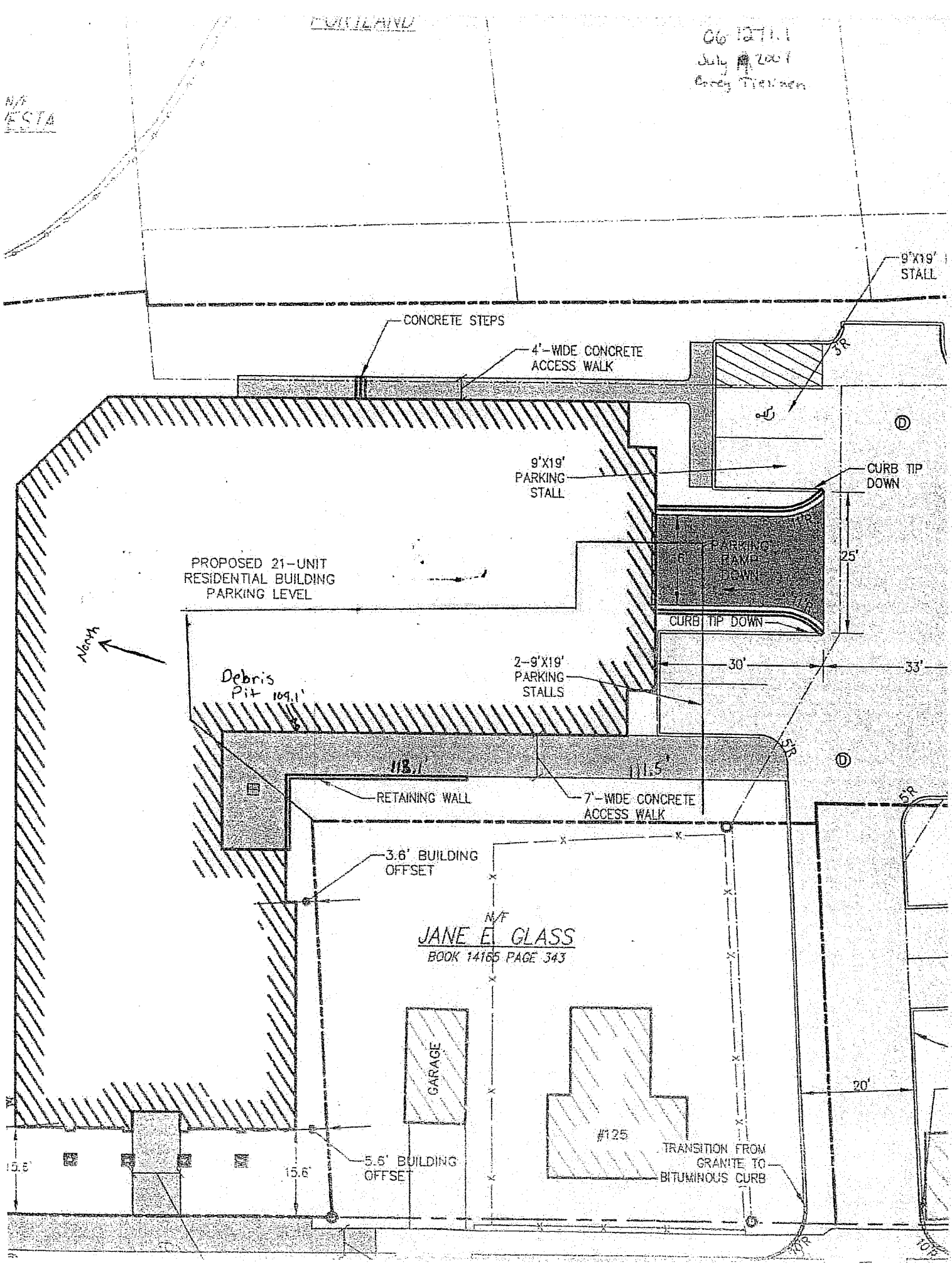
Equipment Used ☐-Core Drill ☐-Generator ☐-Windsor Probe ☐-Rebar Locator ☐-Digital Camera ☐ GPS ☐ _____ ☐ _____

Construction Activities Observed: S.W. Cole was on-site all day in order to observe the over excavation of ash, debris and previous fill material down to native soil beneath the proposed building. We observed 27 truck loads of ash and debris taken off site by Maietta. The majority of excavation was done with the 325 excavator. A 320 excavator was used to clear a debris pit from the north end that was found early afternoon. A 924G bucket loader was used to clear larger boulders out of the way. A roller was run only once for 5 or 6 passes on a 40' section of native material approximately 6' wide. Maietta excavated the ash to an elevation of 111.5' in the south west corner. The native soil sloped slightly upwards heading in the northerly direction for 40' to an elevation of 113.1'. At 50' there was another debris pit and pocket of clay. This was excavated to an elevation of 109.1' at 54' from the south west corner before native soil was found. Maietta also cleared all suitable material of large rocks to screen and use as backfill in bottom of excavated area. See attached sketch for area and elevation markings. There were 4 maietta guys on-site until the final hour when there were only 2 on-site.

Discussions, Recommendations: At the end of the day it was discussed amongst Portland builders, SW Cole, Maietta and Greg Shinberg as to what needed to be done with material on-site. It was determined that Maietta would screen all suitable fill to 6" minus before placing backfill and compacting below footer elevation.

Items Observed Not In Conformance to Project Specifications: N/A

Reviewed By: _____


CURTILAGE
06 1271.1
July 2007
Corey Thielman
N/F
ESTA
9'X19'
STALL
CONCRETE STEPS
4'-WIDE CONCRETE
ACCESS WALK
3R
9'X19'
PARKING
STALL
CURB TIP
DOWN
PARKING
RAMP
DOWN
25'
PROPOSED 21-UNIT
RESIDENTIAL BUILDING
PARKING LEVEL
CURB TIP DOWN
North
Debris
Pit 109.1'
2-9'X19'
PARKING
STALLS
30'
33'
118.1'
111.5'
RETAINING WALL
7'-WIDE CONCRETE
ACCESS WALK
5R
3.6' BUILDING
OFFSET
N/F
JANE E. GLASS
BOOK 14165 PAGE 343
GARAGE
#125
20'
15.6'
15.6'
5.6' BUILDING
OFFSET
TRANSITION FROM
GRANITE TO
BITUMINOUS CURB

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name: Sheridan Heights
Project No: 06-1271.1
Client: Sheridan Street, LLC.
Date: 7/20/2007
Client's Rep.: Greg Shinberg
Page: 1 of 1
Contractor: Portland Builders
Technician: MPL

Weather			Site Conditions		Materials Used	
☐ Clear	☐ Snow	☐ Warm	☒ Clear	☐ Dusty	☐ Site Fill	☐ Non Frost Susceptible
☒ Overcast	☐ Fog	☐ Hot	☐ Muddy	☐ _____	☐ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed:
☒ Site Prep (Sect. 2230) ☐ Earthwork (Sect. 2300) ☐ Planting Soils (Sect. 2310)
☐ Building Earthwork (Sect. 2315) ☐ Utilities Earthwork (Sect. 2316) ☐ _____

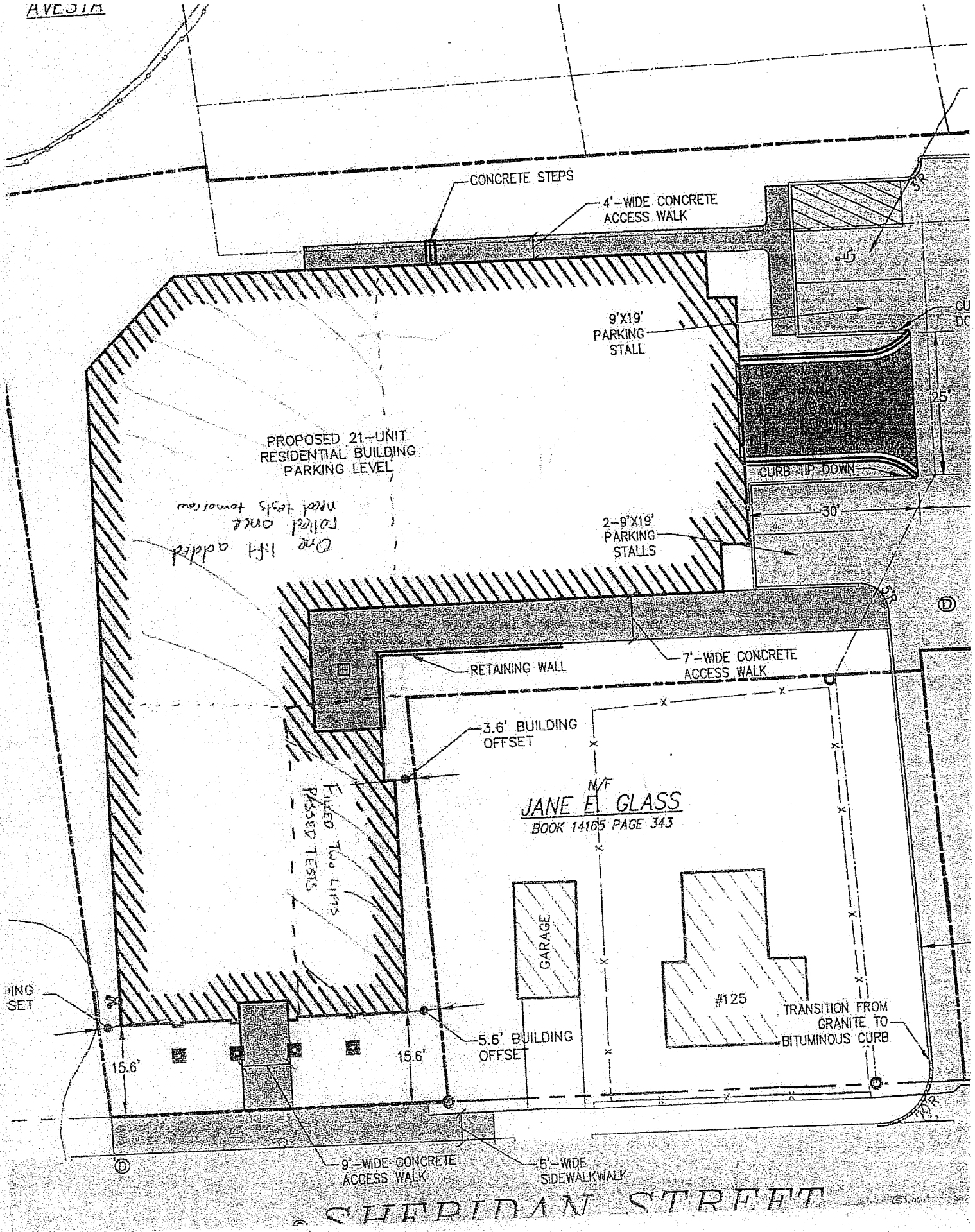
Compaction Equipment Used: ☐ Large Roller ☐ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		Comments
Site Preparation	Yes ☒	No ☐	**excavation of existing fill**
Fill Placement:	Yes ☐	No ☒	
Material Type (Proper material used for construction)	Yes ☐	No ☐	**N/A**
Lift Size	Yes ☐	No ☐	**N/A**
Compaction	Yes ☐	No ☐	**N/A**
In-place Densities	Yes ☐	No ☐	**N/A**
In-place Density Frequency	Yes ☐	No ☐	**N/A**
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site: **8**	Material leaving site: **unsuitable fill and ash**		
No. of trucks entering site:	Material delivered to site:		
No. of earthwork personnel onsite:	Equipment in use: **Cat 320 excavator**		

Notes:
Maietta was excavating fill in the Southwest corner of the proposed parking garage. Material suitable for reuse was being stockpiled inside the building footprint. Unsuitable material (debris/ash) was being hauled off site.

ATTACHMENTS Y☒ N☐ (Photos)

Reviewed By: RED


AVENUE
CONCRETE STEPS
4'-WIDE CONCRETE ACCESS WALK
9'X19' PARKING STALL
PROPOSED 21-UNIT RESIDENTIAL BUILDING PARKING LEVEL
CURB TIP DOWN
30'
25'
2-9'X19' PARKING STALLS
RETAINING WALL
7'-WIDE CONCRETE ACCESS WALK
3.6' BUILDING OFFSET
N/F
JANE E. GLASS
BOOK 14165 PAGE 343
GARAGE
#125
TRANSITION FROM GRANITE TO BITUMINOUS CURB
5.6' BUILDING OFFSET
15.6'
15.6'
9'-WIDE CONCRETE ACCESS WALK
5'-WIDE SIDEWALKWALK
SHERIDAN STREET

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name: Sheridan Heights
Project No: 06-1271.1
Client: Sheridan Street, LLC.
Date: 7/30/2007
Client's Rep.: Greg Shinberg
Page: 1 of 1
Contractor: Portland Builders
Technician: JLD

Weather			Site Conditions		Materials Used	
☐ Clear	☐ Snow	☐ Warm	☒ Clear	☐ Dusty	☒ Site Fill	☐ Non Frost Susceptible
☒ Overcast	☐ Fog	☐ Hot	☐ Muddy	☐ _____	☐ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed:
☒ Site Prep (Sect. 2230) ☐ Earthwork (Sect. 2300) ☐ Planting Soils (Sect. 2310)
☒ Building Earthwork (Sect. 2315) ☐ Utilities Earthwork (Sect. 2316) ☐ _____

Compaction Equipment Used: ☐ Large Roller ☒ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		Comments
Site Preparation	Yes ☒	No ☐	removal of existing fill
Fill Placement:	Yes ☒	No ☐	placed existing fill/gravel borrow
Material Type (Proper material used for construction)	Yes ☒	No ☐	existing fill/gravel borrow
Lift Size	Yes ☒	No ☐	12"
Compaction	Yes ☒	No ☐	Vibrating Roller
In-place Densities	Yes ☒	No ☐	Every Lift
In-place Density Frequency	Yes ☒	No ☐	2 per Lift
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site: **13**	Material leaving site: **Boulders, steel, misc unsuitable fill**		
No. of trucks entering site: **3**	Material delivered to site: **Maietta 3" gravel (gravel Borrow)**		
No. of earthwork personnel onsite: **3**	Equipment in use: **325 Excavator, D3 Dozer, cs-323 roller**		

Notes:
Excavated to native soil, removing boulders and clay. Used remaining material to fill 1st lift. Two tests taken on first lift after several passes with the roller they were able to get compaction. Sand under the 1st lift was tested and achieved. A second lift was put on at the end of the day using material from Maietta (3" gravel). Lift was compacted but not yet tested. Tomorrow tests will be taken on that lift and several lifts will be added.

ATTACHMENTS Y☐ N☒ (Photos)

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name: Sheridan Heights | **Project No:** 06-1271.1
Client: Sheridan Street, LLC. | **Date:** 7/31/2007
Client's Rep.: Greg Shinberg | **Page:** 1 of 1
Contractor: Portland Builders | **Technician:** JLD

Weather			Site Conditions		Materials Used	
☐ Clear	☐ Snow	☐ Warm	☒ Clear	☐ Dusty	☒ Site Fill	☐ Non Frost Susceptible
☐ Overcast	☐ Fog	☒ Hot	☐ Muddy	☐ _____	☐ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed: ☒ Site Prep (Sect. 2230) ☐ Earthwork (Sect. 2300) ☐ Planting Soils (Sect. 2310) ☒ Building Earthwork (Sect. 2315) ☐ Utilities Earthwork (Sect. 2316) ☐ _____

Compaction Equipment Used: ☐ Large Roller ☒ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		Comments
Site Preparation	Yes ☒	No ☐	Removal boulders, and unsuitable soil
Fill Placement:	Yes ☒	No ☐	
Material Type (Proper material used for construction)	Yes ☒	No ☐	Onsite gravel and 3" gravel borrows
Lift Size	Yes ☒	No ☐	12"
Compaction	Yes ☒	No ☐	Used Vibrating Roller
In-place Densities	Yes ☒	No ☐	Every Lift
In-place Density Frequency	Yes ☒	No ☐	2-3 per lift
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site: **10**	Material leaving site: **Unsuitable soil, metal, boulders**		
No. of trucks entering site: **10**	Material delivered to site: **3" Gravel**		
No. of earthwork personnel onsite: **3**	Equipment in use: **CS-323C Roller, D3G Dozer, 325B Excavator**		

Notes:
Two full lifts placed and achieved compaction. Maietta had to dig out large boulders and haul them off site. In the North corner they will begin to bring type D gravel in for beneath the footing. Material has not been tested, a sample was obtained for laboratory proctor.

ATTACHMENTS Y☐ N☒ (Photos)

Reviewed By: MPL

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name:	Sheridan Heights	**Project No:**	06-1271.1
Client:	Sheridan Street, LLC.	**Date:**	8/1/2007
Client's Rep.:	Greg Shinberg	**Page:**	1 of 1
Contractor:	Portland Builders	**Technician:**	JLD

Weather			**Site Conditions**		**Materials Used**	
☐ Clear	☐ Snow	☐ Warm	☒ Clear	☐ Dusty	☒ Site Fill	☐ Non Frost Susceptible
☐ Overcast	☐ Fog	☒ Hot	☐ Muddy	☐ _____	☐ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed:

☒ Site Prep (Sect. 2230)	☐ Earthwork (Sect. 2300)	☐ Planting Soils (Sect. 2310)
☒ Building Earthwork (Sect. 2315)	☐ Utilities Earthwork (Sect. 2316)	☐ _____

Compaction Equipment Used: ☐ Large Roller ☒ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		Comments
Site Preparation	Yes ☒	No ☐	Removal of unsuitable soil and boulders
Fill Placement:	Yes ☒	No ☐	used dozer and roller
Material Type (Proper material used for construction)	Yes ☒	No ☐	3" gravel borrows, onsite native soil
Lift Size	Yes ☒	No ☐	12"
Compaction	Yes ☒	No ☐	passed each lift 95%
In-place Densities	Yes ☒	No ☐	Every Lift
In-place Density Frequency	Yes ☒	No ☐	2-4 per lift
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			

SITE WORK OBSERVED	
No. of trucks leaving site: **24**	Material leaving site: **Ash, boulders, junk**
No. of trucks entering site: **24**	Material delivered to site: **2-Type D 22-3" Gravel borrow**
No. of earthwork personnel onsite: **3**	Equipment in use: **CS-323C Roller, D3G Dozer, 325B Excavator**

Notes:

Two loads of Type-D gravel compacted in North corner of proposed building need Procter and compaction tests. One full lift of 3" gravel borrow compacted and tested before lunch. Two more lifts added to North half, compaction achieved. Had a hard time getting compaction all day, material was very dry. One test taken on sandy gravel, brought back a sample for proctor and calculate compaction percentage. Crane scheduled for tomorrow. Water truck should be onsite tomorrow. Matt stopped by site asked Jim Steele (Maietta) to get larger roller. ATTACHMENTS Y☐ N☐ (Photos)

Reviewed By: MPL

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name: Sheridan Heights
Project No: 06-1271.1
Client: Sheridan Street, LLC.
Date: 8/2/2007
Client's Rep.: Greg Shinberg
Page: 1 of 1
Contractor: Portland Builders
Technician: JLD

Weather			Site Conditions		Materials Used	
☐ Clear	☐ Snow	☐ Warm	☐ Clear	☒ Dusty	☐ Site Fill	☐ Non Frost Susceptible
☐ Overcast	☐ Fog	☒ Hot	☐ Muddy	☐ _____	☐ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed: ☒ Site Prep (Sect. 2230); ☐ Earthwork (Sect. 2300); ☐ Planting Soils (Sect. 2310); ☒ Building Earthwork (Sect. 2315); ☐ Utilities Earthwork (Sect. 2316); ☐ _____

Compaction Equipment Used: ☐ Large Roller ☒ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		*Comments*
Site Preparation	Yes ☒	No ☐	removed boulders, metal, ash
Fill Placement:	Yes ☒	No ☐	
Material Type (Proper material used for construction)	Yes ☒	No ☐	3" gravel borrow
Lift Size	Yes ☒	No ☐	12"
Compaction	Yes ☒	No ☐	tests taken all passing
In-place Densities	Yes ☒	No ☐	every lift
In-place Density Frequency	Yes ☒	No ☐	2-4 per lift
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site: **17**	Material leaving site: **ash, metal, boulders**		
No. of trucks entering site: **19**	Material delivered to site: **3" gravel**		
No. of earthwork personnel onsite: **3**	Equipment in use: **CS-323C Roller, D3G dozer, 325B excavator**		

Notes:
Tested Type-D that was rolled yesterday was compacted to 95% or greater. They added a couple of lifts that were compacted and tested. One additional lift was added but still needs to be rolled and tested. They started digging for the chamber system today. The crane arrived at noon and will set up tomorrow. Asked Maietta for a larger roller and they said it wasn't probable, have been using a water truck now.

Remarks:
As discussed during a site meeting on 7/23/07 we understand that SGC is aware of the ash in the area of the strom water subgrade prep for the storm water system. Should be in accordance with SGC's recommendations. MPL ATTACHMENTS Y☒ N☐ (Photos)

Reviewed By: MPL

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name:	Sheridan Heights	**Project No:**	06-1271.1
Client:	Sheridan Street, LLC.	**Date:**	8/3/2007
Client's Rep.:	Greg Shinberg	**Page:**	1 of 1
Contractor:	Portland Builders	**Technician:**	JLD

Weather			**Site Conditions**		**Materials Used**	
☐ Clear	☐ Snow	☐ Warm	☒ Clear	☐ Dusty	☐ Site Fill	☐ Non Frost Susceptible
☐ Overcast	☐ Fog	☒ Hot	☐ Muddy	☐ _____	☐ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed: ☒ Site Prep (Sect. 2230) ☒ Building Earthwork (Sect. 2315) ☐ Earthwork (Sect. 2300) ☐ Utilities Earthwork (Sect. 2316) ☐ Planting Soils (Sect. 2310) ☐ _____

Compaction Equipment Used: ☐ Large Roller ☒ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	**Observed**		***Comments***
Site Preparation	Yes ☒	No ☐	**Removed unsuitable material**
Fill Placement:	Yes ☒	No ☐	
Material Type (Proper material used for construction)	Yes ☒	No ☐	**Type-D gravel**
Lift Size	Yes ☒	No ☒	**12" - 18"**
Compaction	Yes ☒	No ☐	**passed with added water**
In-place Densities	Yes ☒	No ☐	**Every Lift**
In-place Density Frequency	Yes ☒	No ☐	**2-4 per lift**
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site: **4**	Material leaving site: **Boulders, metal, ash**		
No. of trucks entering site: **24**	Material delivered to site: **23- Type-D, 1- Crushed stone**		
No. of earthwork personnel onsite: **2**	Equipment in use: **CS-323C Roller, D3G Dozer, 325B Excavator**		

Notes:
Added two lifts today with passing compaction tests. Material rest of day needed water truck to reach 95% compaction. A crew was working on setting up the crane, should be ready to use Monday. Excavation material hauled off site was outside building area for storm water system.

ATTACHMENTS Y☐ N☒ (Photos)

Reviewed By: MPL

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name: Sheridan Heights | **Project No:** 06-1271.1
Client: Sheridan Street, LLC. | **Date:** 8/8/2007
Client's Rep.: Greg Shinberg | **Page:** 1 of 1
Contractor: Portland Builders | **Technician:** JLD

Weather			Site Conditions		Materials Used	
☐ Clear	☐ Snow	☐ Warm	☒ Clear	☐ Dusty	☒ Site Fill	☐ Non Frost Susceptible
☐ Overcast	☐ Fog	☒ Hot	☐ Muddy	☐ _____	☒ Utility Bedding	☐ Subbase
☒ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed:
☒ Site Prep (Sect. 2230) ☐ Earthwork (Sect. 2300) ☐ Planting Soils (Sect. 2310)
☒ Building Earthwork (Sect. 2315) ☐ Utilities Earthwork (Sect. 2316) ☐ _____

Compaction Equipment Used: ☐ Large Roller ☒ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		*Comments*
Site Preparation	Yes ☒	No ☐	**Excavated out unusable material**
Fill Placement:	Yes ☒	No ☐	
Material Type (Proper material used for construction)	Yes ☒	No ☐	**Crushed stone/Type-D**
Lift Size	Yes ☒	No ☐	**12"**
Compaction	Yes ☐	No ☒	**Rolled for construction use only**
In-place Densities	Yes ☐	No ☒	
In-place Density Frequency	Yes ☐	No ☒	
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site: **8**	Material leaving site: **Ash, unusable material, boulders, junk metal**		
No. of trucks entering site: **23**	Material delivered to site: **15- Type-D, 8- Crushed stone**		
No. of earthwork personnel onsite: **3**	Equipment in use: **Roller, dozer, excavator**		

Notes:
H.P. Fleming drove anchor piles most of the day. Maietta worked on the chamber system all day. Material was excavated down to an elevation of 6' of crushed stone above them. 3 catch basins were put in place. Fabric was laid over stone and 12" of type-D was added and rolled above chamber system area. Junk material hauled offsite. Will continue to work on chamber system tomorrow.

ATTACHMENTS Y☐ N☒ (Photos)

Reviewed By: MPL

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name: Sheridan Heights | **Project No:** 06-1271.1

Client: Sheridan Street, LLC. | **Date:** 8/9/2007

Client's Rep.: Greg Shinberg | **Page:** 1 of 1

Contractor: Portland Builders | **Technician:** JLD

Weather			Site Conditions		Materials Used	
☒ Clear	☐ Snow	☐ Warm	☒ Clear	☐ Dusty	☒ Site Fill	☐ Non Frost Susceptible
☐ Overcast	☐ Fog	☒ Hot	☐ Muddy	☐ _____	☒ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed: ☐ Site Prep (Sect. 2230) ☐ Earthwork (Sect. 2300) ☐ Planting Soils (Sect. 2310) ☐ Building Earthwork (Sect. 2315) ☒ Utilities Earthwork (Sect. 2316) ☐ _____

Compaction Equipment Used: ☐ Large Roller ☐ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		Comments
Site Preparation	Yes ☐	No ☐	
Fill Placement:	Yes ☐	No ☐	
Material Type (Proper material used for construction)	Yes ☐	No ☐	
Lift Size	Yes ☐	No ☐	
Compaction	Yes ☐	No ☐	
In-place Densities	Yes ☐	No ☐	
In-place Density Frequency	Yes ☐	No ☐	
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site:	Material leaving site:		
No. of trucks entering site:	Material delivered to site:		
No. of earthwork personnel onsite:	Equipment in use:		

Notes:

Stopped by site for a few minutes. Maietta said they would be working on the chamber system all day. Measured the approximate volume for the first section of the chamber system (approx. 50 cu/yd). They should be excavating around the piles for the retaining wall by Monday. Crushed stone and Type-D was hauled onsite for use on the chamber system. on chamber system tomorrow.

ATTACHMENTS Y☒ N☐ (Photos)

Reviewed By: MPL

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name: Sheridan Heights
Project No: 06-1271.1
Client: Sheridan Street, LLC.
Date: 8/15/2007
Client's Rep.: Greg Shinberg
Page: 1 of 1
Contractor: Portland Builders
Technician: JLD

Weather			Site Conditions		Materials Used	
☐ Clear	☐ Snow	☐ Warm	☒ Clear	☐ Dusty	☒ Site Fill	☐ Non Frost Susceptible
☒ Overcast	☐ Fog	☐ Hot	☐ Muddy	☐ _____	☐ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed: ☐ Site Prep (Sect. 2230) ☒ Earthwork (Sect. 2300) ☐ Planting Soils (Sect. 2310) ☐ Building Earthwork (Sect. 2315) ☐ Utilities Earthwork (Sect. 2316) ☐ _____

Compaction Equipment Used: ☐ Large Roller ☐ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		Comments
Site Preparation	Yes ☐	No ☒	
Fill Placement:	Yes ☐	No ☒	
Material Type (Proper material used for construction)	Yes ☒	No ☐	Type-D
Lift Size	Yes ☐	No ☒	
Compaction	Yes ☐	No ☒	
In-place Densities	Yes ☐	No ☒	
In-place Density Frequency	Yes ☐	No ☒	
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site: **25**	Material leaving site: **Material from old dump site, ash, and junk material**		
No. of trucks entering site: **2**	Material delivered to site: **Type-D**		
No. of earthwork personnel onsite: **2**	Equipment in use: **Excavator**		

Notes:
Maietta excavated in between soldier piles so H.P. Flemming could install the wood lagging. Maietta would use the material to fill behind the wall once a whole section of lagging was installed. Lagging was installed today between sections D-4, 14-17, no lagging 4-5, 5-18 7.5' above grade. They are expected to finish the, lagging for the retaining wall tomorrow.

ATTACHMENTS Y☐ N☒ (Photos)

Reviewed By: MPL

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name: Sheridan Heights
Project No: 06-1271.1
Client: Sheridan Street, LLC.
Date: 8/16/2007
Client's Rep.: Greg Shinberg
Page: 1 of 1
Contractor: Portland Builders
Technician: JLD

Weather			Site Conditions		Materials Used	
☒ Clear	☐ Snow	☐ Warm	☐ Clear	☒ Dusty	☐ Site Fill	☐ Non Frost Susceptible
☐ Overcast	☐ Fog	☐ Hot	☐ Muddy	☐ _____	☐ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:	☐ Base	☐ _____

Soils Worked Performed: ☐ Site Prep (Sect. 2230) ☒ Earthwork (Sect. 2300) ☐ Planting Soils (Sect. 2310)
☐ Building Earthwork (Sect. 2315) ☐ Utilities Earthwork (Sect. 2316) ☐ _____

Compaction Equipment Used: ☐ Large Roller ☐ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		Comments
Site Preparation	Yes ☐	No ☒	
Fill Placement:	Yes ☐	No ☒	
Material Type (Proper material used for construction)	Yes ☒	No ☐	Type-D
Lift Size	Yes ☐	No ☒	
Compaction	Yes ☐	No ☒	
In-place Densities	Yes ☐	No ☒	
In-place Density Frequency	Yes ☐	No ☒	
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site: **4**	Material leaving site: **material from dump site, ash, junk material**		
No. of trucks entering site: **4**	Material delivered to site: **Type-D**		
No. of earthwork personnel onsite: **1**	Equipment in use: **Excavator**		

Notes:
Maietta continued to excavate between remaining soldier piles and install timber lagging. At the center of the wall material from the hill above kept sliding down, so Maietta put two steel plates behind wall. Less than an hour later part of the parking lot above collapsed. H.P. Flemming was still able to finish most of the lagging.

ATTACHMENTS Y☐ N☒ (Photos)

Reviewed By: MPL

S.W.COLE ENGINEERING, INC.

SOILS OBSERVATION REPORT

Project Name: Sheridan Heights
Project No: 06-1271.1
Client: Sheridan Street, LLC
Date: 9/14/07
Client's Rep.: Greg Shinberg
Page: 1 of 2
Contractor: Portland Builders
Technician: MPL

Weather			Site Conditions		Materials Used	
☒ Clear	☐ Snow	☐ Warm	☒ Clear	☐ Dusty	☐ Site Fill	☐ Non Frost Susceptible
☐ Overcast	☐ Fog	☐ Hot	☐ Muddy	☐ _____	☐ Utility Bedding	☐ Subbase
☐ Rain	☐ Cold	☐ Windy	☐ Frozen	Temperatures:60	☐ Base	☐ _____

Soils Worked Performed: ☐ Site Prep ☐ Earthwork ☐ Planting Soils ☐ Building Earthwork ☐ Utilities Earthwork ☐ _____

Compaction Equipment Used: ☐ Large Roller ☐ Small Roller ☐ Trench Roller ☐ Large Plate Tamp ☐ Small Tamp ☐ Jumping Jack ☐ _____ ☐ _____

SOILS OBSERVATIONS	Observed		*Comments*
Site Preparation	Yes ☐	No ☒	
Fill Placement:	Yes ☐	No ☒	
Material Type (Proper material used for construction)	Yes ☐	No ☒	
Lift Size	Yes ☐	No ☒	
Compaction	Yes ☐	No ☒	
In-place Densities	Yes ☐	No ☒	
In-place Density Frequency	Yes ☐	No ☒	
NON-CONFORMANCE ITEMS OBSERVED			
Non-conformance item description:			
Action taken by SWCE:			
Person(s) Notified:			
SITE WORK OBSERVED			
No. of trucks leaving site:	Material leaving site:		
No. of trucks entering site:	Material delivered to site:		
No. of earthwork personnel onsite:	Equipment in use:		

Notes: Made a site visit to observe the area where proposed finished grades will be less than 4.5 above the footing. Jim Steele (Maietta) pointed out the section that would have less than the required cover. Jim also indicated that the minimum cover was about 1' 4". The section appears to be about 35' to 40' long. Appears total length of the insulated area may be around 48'. General recommendations for insulation of foundations were provide by SWCE in an email dated September 6, 2007. ATTACHMENTS Y☒ N☐

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

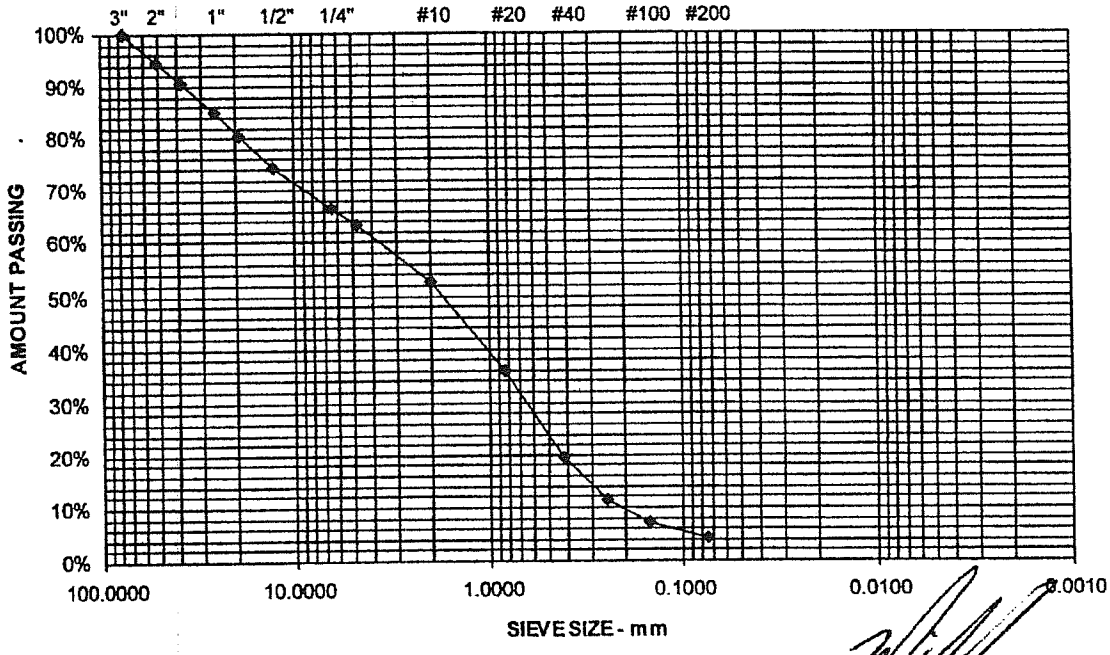
Report of Gradation

ASTM C-117 & C-136

Project Name	PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING	Project Number	06-1271.1
		Lab ID	7192G
Client	SHERIDAN STREET LLC	Date Received	8/1/2007
Material Type	AGGREGATE SUBBASE (TYPE D)	Date Complete	8/2/2007
Material Source	MAIETTA - BALDWIN PIT	Tested By	JUSTIN BISSON

STANDARD DESIGNATION (MM/µM)	SIEVE SIZE	AMOUNT PASSING(%)	SWCE Structural Fill/Select Fill Specifications (%)	MDOT 703 06 Type D Specifications (%)	MDOT 703 20 Gravel Borrow Specifications (%)
150 mm	6"	100		100	100
125 mm	5"	100			
100 mm	4"	100	- 100		
75 mm	3"	100	90 - 100		
50 mm	2"	95			
38.1 mm	1-1/2"	91			
25.0 mm	1"	85			
19.0 mm	3/4"	81			
12.5 mm	1/2"	74			
6.3 mm	1/4"	66	25 - 90	25 - 70	0 - 70
4.75 mm	No. 4	63			
2.00 mm	No. 10	53			
850 um	No. 20	36			
425 um	No. 40	19	0 - 30	0 - 30	
250 um	No. 60	11			
150 um	No. 100	7			
75 um	No. 200	4.3	0 - 5	0 - 7	0 - 10

SAMPLE MEETS SPECIFICATION



Comments

Roger E. Domingo

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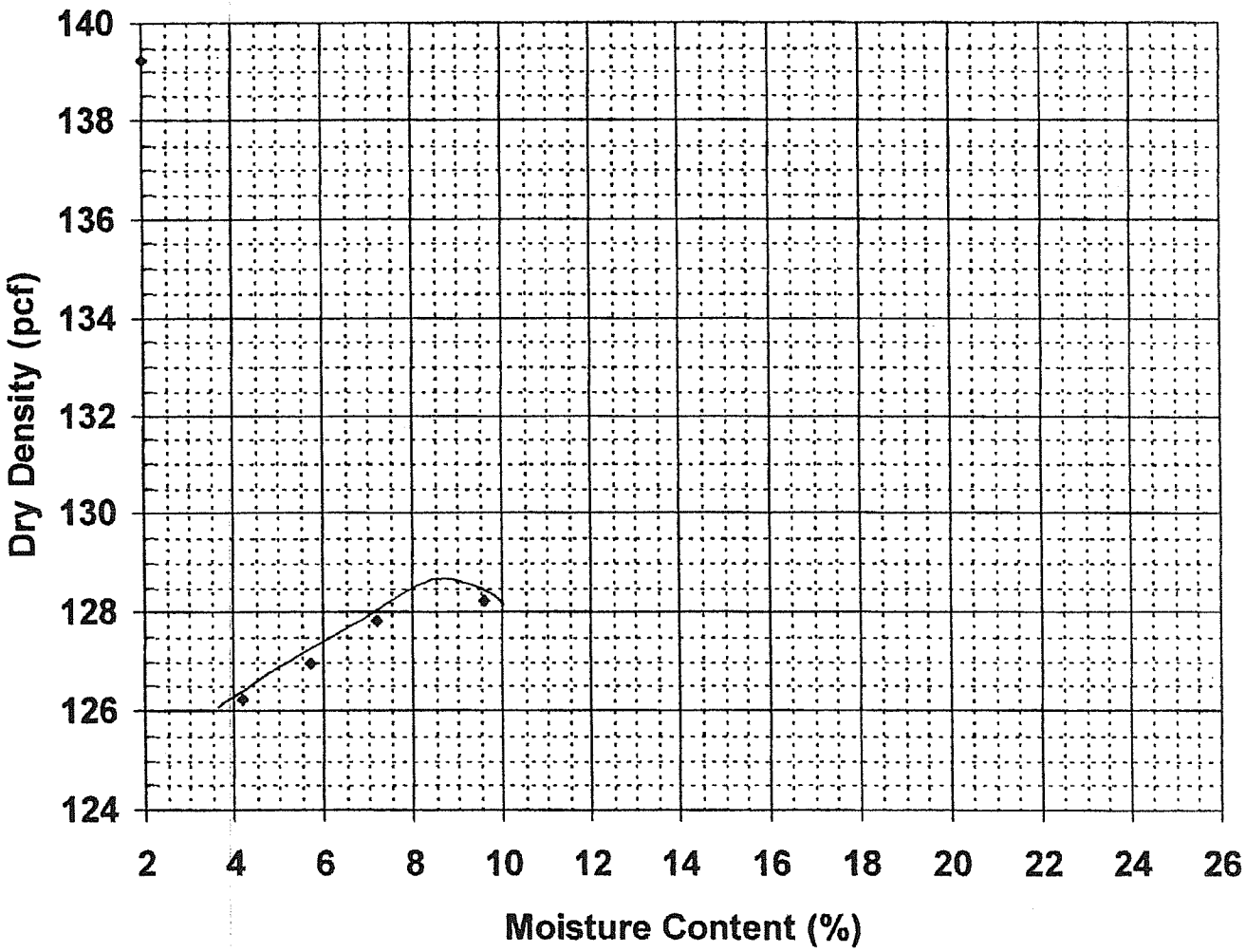
S.W.COLE ENGINEERING, INC.

Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name	PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING	Project Number	06-1271.1
		Lab ID	7192G
Client	SHERIDAN STREET LLC	Date Received	8/1/2007
Material Type	AGGREGATE SUBBASE (TYPE D)	Date Completed	8/2/2007
Material Source	MAIETTA - BALDWIN PIT	Tested By	JUSTIN BISSON

Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	128.7
Optimum Moisture Content (%)	8.5
Percent Oversized	19.0%

Corrected Dry Density (pcf)	133.3
Corrected Moisture Content (%)	7.3

Comments

Roger E. Domingo

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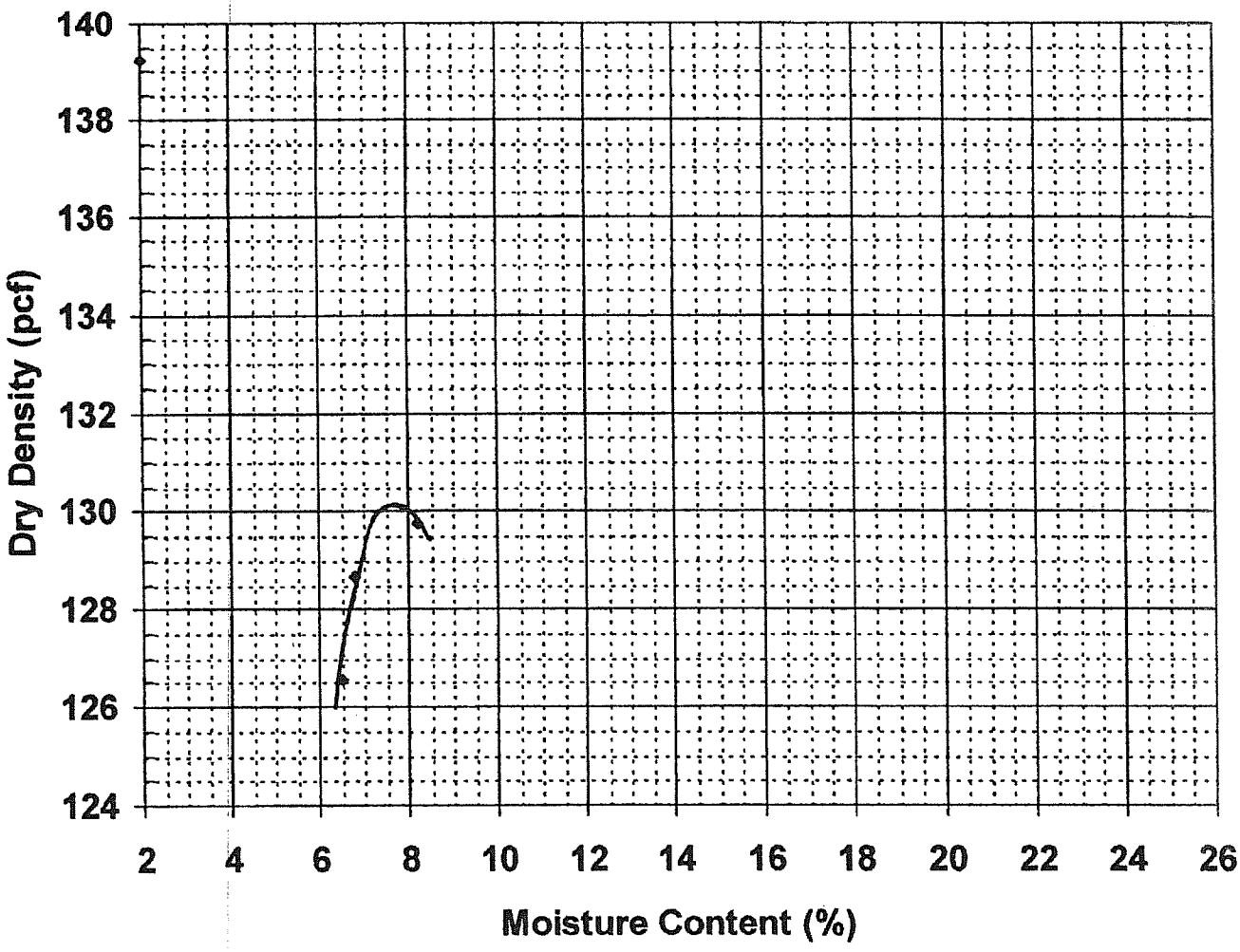
S.W.COLE ENGINEERING, INC.

Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name	PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING	Project Number	06-1271.1
		Lab ID	7185G
Client	SHERIDAN STREET LLC	Date Received	7/31/2007
Material Type	NATIVE SAND	Date Completed	8/2/2007
Material Source	NATIVE MATERIAL	Tested By	JUSTIN BISSON

Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	130.1
Optimum Moisture Content (%)	7.6
Percent Oversized	23.6%

Corrected Dry Density (pcf)	135.6
Corrected Moisture Content (%)	6.3

Roger E. Domingo

Comments

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S.W.COLE
ENGINEERING, INC.

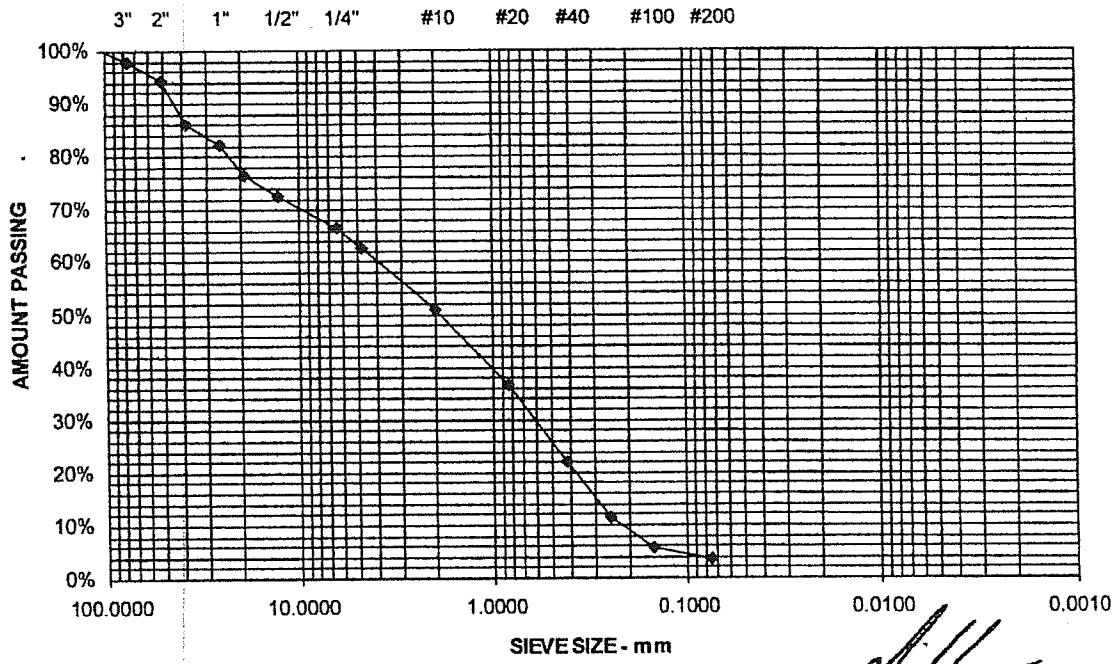
Report of Gradation

ASTM C-117 & C-136

Project Name	PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING	Project Number	06-1271.1
		Lab ID	7185G
Client	SHERIDAN STREET LLC	Date Received	7/31/2007
Material Type	NATIVE SAND	Date Complete	8/1/2007
Material Source	NATIVE MATERIAL	Tested By	JUSTIN BISSON

STANDARD DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	SWCE STRUCTURAL FILL/SELECT FILL SPECIFICATIONS (%)
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	100
75 mm	3"	98	90 - 100
50 mm	2"	94	
38.1 mm	1-1/2"	86	
25.0 mm	1"	82	
19.0 mm	3/4"	76	
12.5 mm	1/2"	73	
6.3 mm	1/4"	67	25 - 90
4.75 mm	No. 4	63	
2.00 mm	No. 10	51	
850 um	No. 20	37	
425 um	No. 40	22	0 - 30
250 um	No. 60	11	
150 um	No. 100	6	
75 um	No. 200	3.4	0.0 - 5.0

SAMPLE MEETS SPECIFICATION



Comments

Roger E. Domingo

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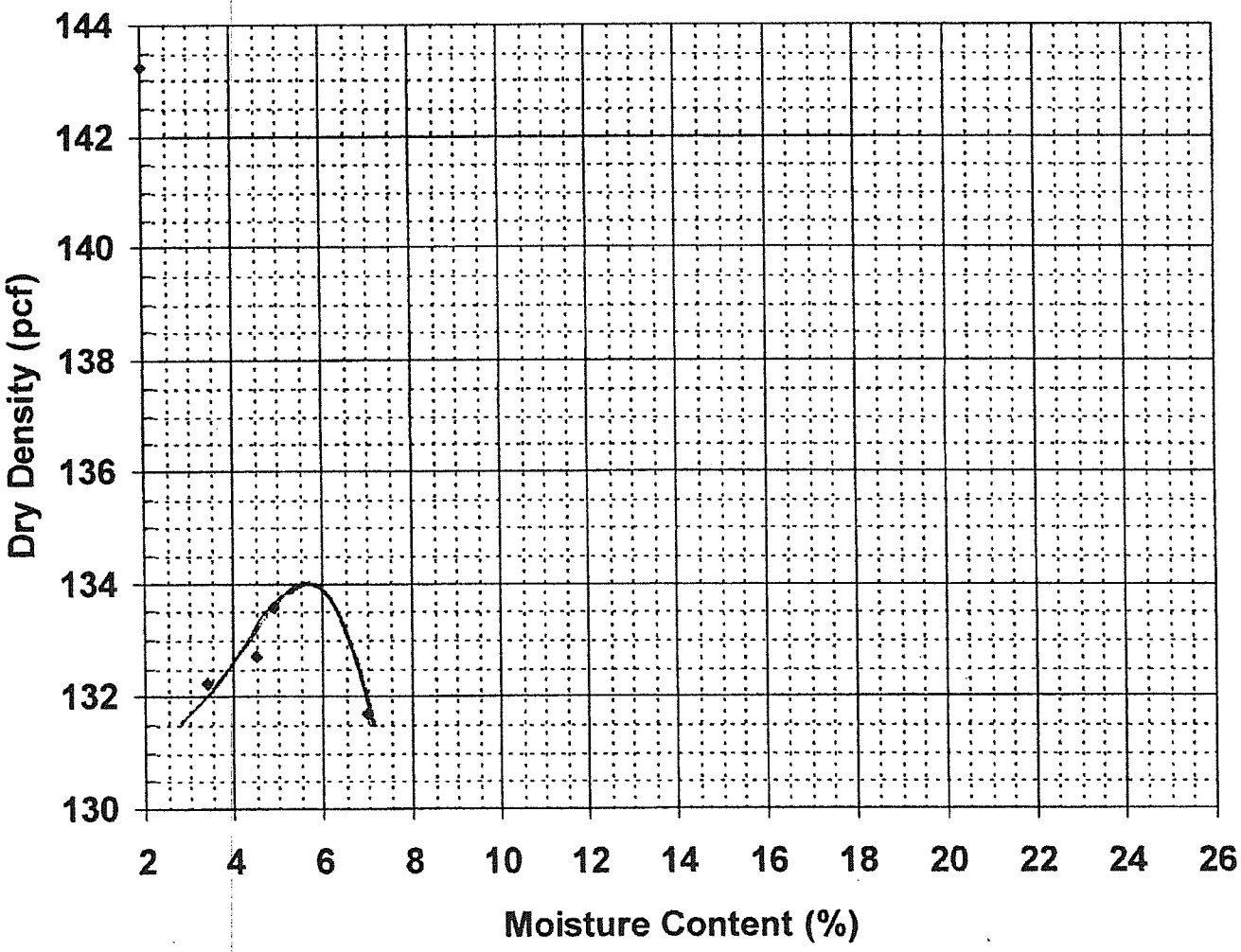
Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name	PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING	Project Number	06-1271.1
		Lab ID	7157G
Client	SHERIDAN STREET LLC	Date Received	7/26/2007
Material Type	GRAVEL BORROW	Date Completed	7/31/2007
Material Source	MAIETTA, SCARBOROUGH	Tested By	SAM CHRISTY

Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	134
Optimum Moisture Content (%)	5.5
Percent Oversized	30.0%

Corrected Dry Density (pcf)	140.2
Corrected Moisture Content (%)	4.4

Comments

Roger E. Domingo

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S.W.COLE ENGINEERING, INC.

Report of Gradation

ASTM C-117 & C-136

Project Name PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Client SHERIDAN STREET LLC

Material Type FILL MIXTURE

Material Source ON SITE MATERIAL MIXTURE

Project Number 06-1271.1

Lab ID 7209G

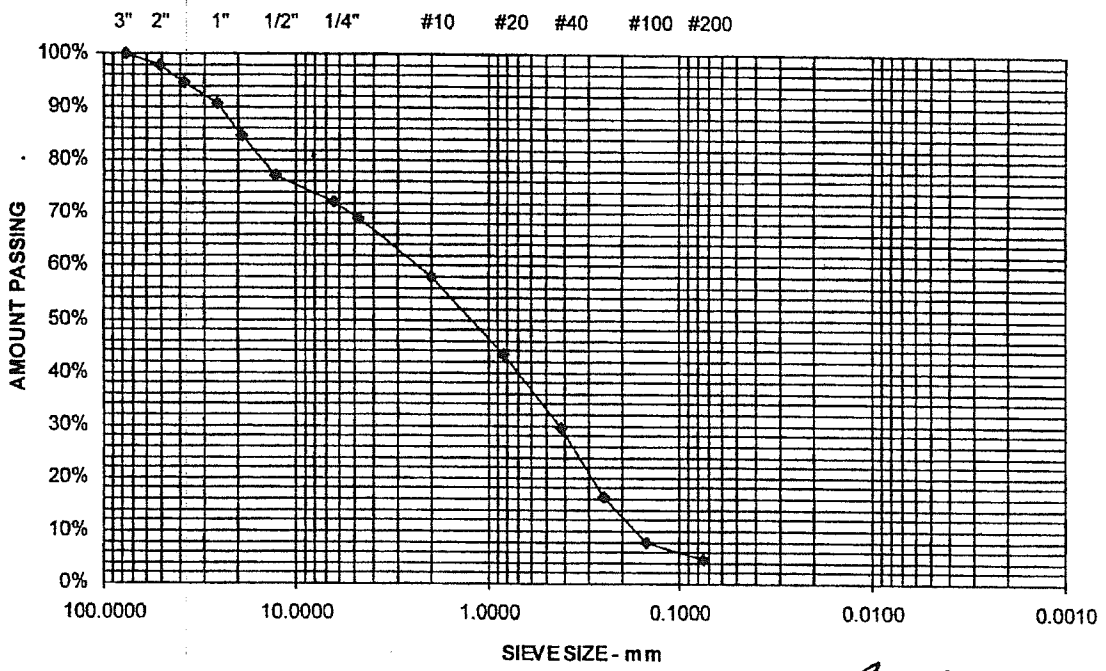
Date Received 8/2/2007

Date Complete 8/7/2007

Tested By SAM CHRISTY

STANDARD DESIGNATION (mm/µm)	SIEVE SIZE	AMOUNT PASSING (%)	MDOT 703.20 GRAVEL BORROW SPECIFICATIONS (%)	
150 mm	6"	100	100	
125 mm	5"	100		
100 mm	4"	100		
75 mm	3"	100		
50 mm	2"	98		
38.1 mm	1-1/2"	95		
25.0 mm	1"	91		
19.0 mm	3/4"	85		
12.5 mm	1/2"	77		
6.3 mm	1/4"	72	0 - 70	†
4.75 mm	No. 4	69		
2.00 mm	No. 10	58		
850 um	No. 20	43		
425 um	No. 40	30		
250 um	No. 60	16		
150 um	No. 100	8		
75 um	No. 200	4.6	0.0 - 10.0	

† SAMPLE DOES NOT MEET SPECIFICATION



Comments

Roger E. Domingo

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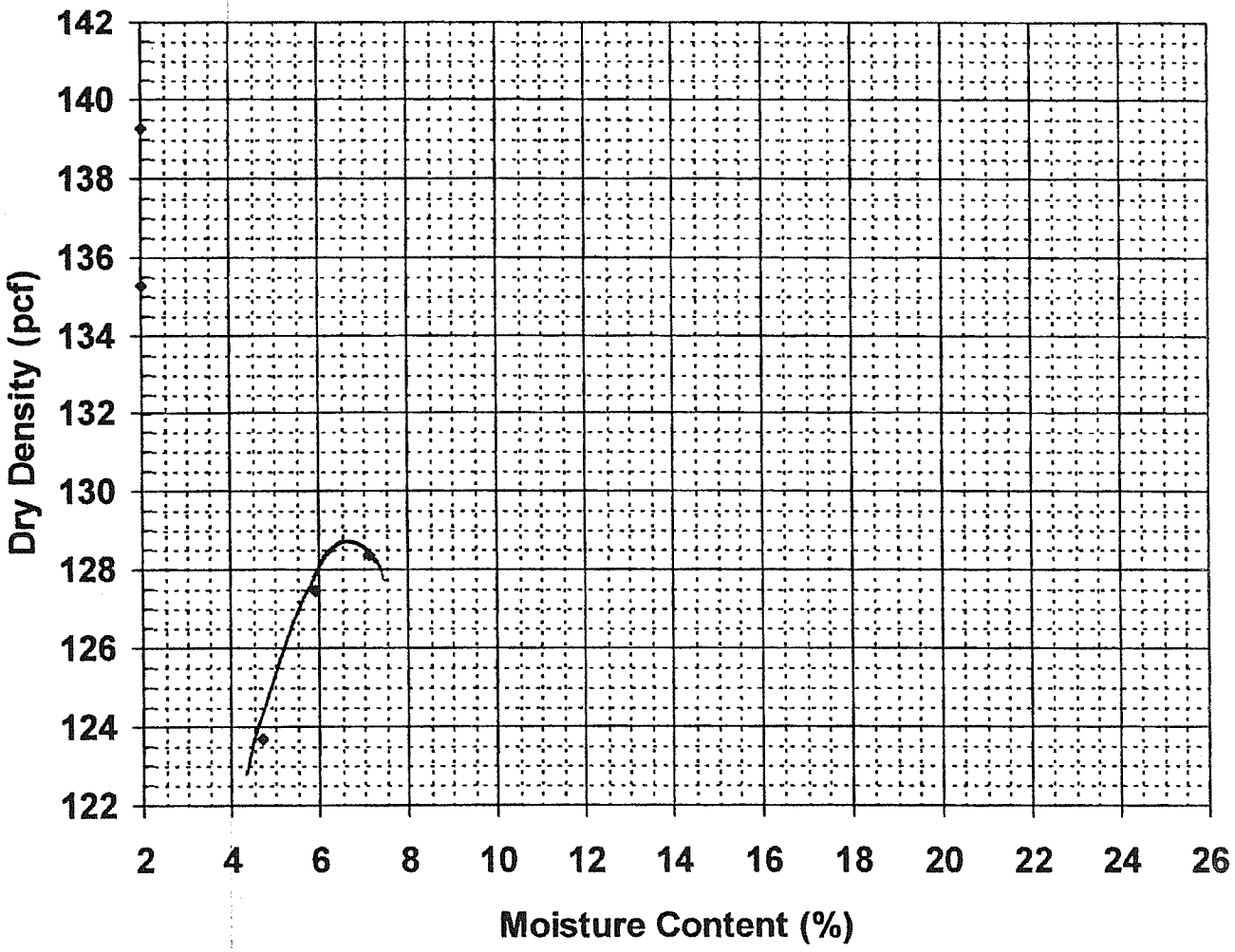
S.W.COLE ENGINEERING, INC.

Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name	PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING	Project Number	06-1271.1
		Lab ID	7209G
Client	SHERIDAN STREET LLC	Date Received	8/2/2007
Material Type	FILL MIXTURE	Date Completed	8/7/2007
Material Source	ON SITE MATERIAL MIXTURE	Tested By	JUSTIN BISSON

Moisture-Density Relationship Curve



Maximum Dry Density (pcf)	128.6	Corrected Dry Density (pcf)	132.2
Optimum Moisture Content (%)	6.6	Corrected Moisture Content (%)	5.9
Percent Oversized	15.0%		

Comments

Roger E. Domingo

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S.W.COLE ENGINEERING, INC.

Report of Field Density
ASTM D2922

Project: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING Project Number: 06-1271.1

Client: SHERIDAN STREET LLC

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
4	7/31/2007	JLD	4' NORTH, 10' EAST	114'	8	7157G	135.4	4.6	96.6	95
5	7/31/2007	JLD	15' NORTH, 40' EAST	114'	8	7126G	131.5	7.7	95.3	95
6	7/31/2007	JLD	62' NORTH, 32' EAST	116'	8	7126G	131.2	6.3	95.1	95
7	7/31/2007	JLD	30' NORTH, 18' EAST	114'	8	7157G	137.5	5.5	98.1	95
8	7/31/2007	JLD	5' NORTH, 25' EAST	115'	8	7157G	133.8	3.3	95.4	95
9	7/31/2007	JLD	35' NORTH, 35' EAST	115'	8	7157G	135.1	4.4	96.4	95
10	7/31/2007	JLD	15' NORTH, 50' EAST	118'	10	7126G	134.6	4.8	97.5	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
7126G	7/20/2007	Onsite Fill	Gravel	ASTM D-1557 Modified C	138.0	5.1	
7157G	7/26/2007	Maietta, Scarborough	Gravel Borrow	ASTM D-1557 Modified C	140.2	4.4	

Elevation Notes:

Comments:

Reviewed By

S.W.COLE ENGINEERING, INC.

Report of Field Density
ASTM D2922

Project: **PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING** Project Number: **06-1271.1**

Client: **SHERIDAN STREET LLC**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
11	8/1/2007	JLD	50' NORTH, 15' EAST	116'	12	7157G	134.0	3.5	95.6	95
12	8/1/2007	JLD	0' N 35'E	116'	12	7157G	134.0	4.2	95.6	95
13	8/1/2007	JLD	0' N 20'E	116'	12	7157G	136.5	3.6	97.4	95
14	8/1/2007	JLD	58' N 40' E	116'	12	7157G	133.5	2.8	95.2	95
15	8/1/2007	JLD	35' N 10' E	117'	12	7157G	133.9	4.6	95.5	95
16	8/1/2007	JLD	58' N 35' E	117'	12	7157G	138.1	4.3	98.5	95
17	8/1/2007	JLD	65' N 5' E	117'	12	7126G	135.4	3.0	98.1	95
18	8/1/2007	JLD	65' N 10' W	116.5	10	7185G	130.6	4.1	96.3	95
19	8/1/2007	JLD	58' N 20' E	118	12	7157G	133.4	3.2	95.1	95
20	8/1/2007	JLD	68' N 40' E	118	12	7126G	134.8	3.2	97.7	95
21	8/1/2007	JLD	65' N 10' E	117	6	7126G	136.6	3.8	99.0	95
22	8/1/2007	JLD	65' N 10' W	118	10	7126G	136.1	4.4	98.6	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
7126G	7/20/2007	Onsite Fill	Gravel	ASTM D-1557 Modified C	138.0	5.1	
7157G	7/26/2007	Maietta, Scarborough	Gravel Borrow	ASTM D-1557 Modified C	140.2	4.4	
7185G	7/31/2007	Native Material	Native Sand	ASTM D-1557 Modified C	135.6	6.3	

Elevation Notes: **Comments:**

Reviewed By

S.W.COLE ENGINEERING, INC.

Report of Field Density
ASTM D2922

Project: **PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING** Project Number: **06-1271.1**

Client: **SHERIDAN STREET LLC**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
23	8/2/2007	JLD	65' NORTH, 20' WEST	119.5	12	7157G	133.9	5.0	95.5	95
24	8/2/2007	JLD	75' NORTH, 50' EAST	119	12	7192G	131.0	3.0	98.3	95
25	8/2/2007	JLD	62' NORTH, 50' EAST	119	12	7192G	130.5	3.6	97.9	95
26	8/2/2007	JLD	65' NORTH, 25' WEST	121	12	7157G	133.4	5.3	95.1	95
27	8/2/2007	JLD	65' NORTH, 5' WEST	121	12	7157G	133.9	4.7	95.5	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
7157G	7/26/2007	Maietta, Scarborough	Gravel Borrow	ASTM D-1557 Modified C	140.2	4.4	
7192G	8/1/2007	Maietta - Baldwin Pit	Aggregate Subbase (Type D)	ASTM D-1557 Modified C	133.3	7.3	

Elevation Notes:

Comments:

Reviewed By

S.W.COLE ENGINEERING, INC.

Report of Field Density

ASTM D2922

Project: **PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING** Project Number: **06-1271.1**

Client: **SHERIDAN STREET LLC**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
28	8/3/2007	JLD	6' NORTH, 6' EAST	117.5	10	7192G	134.4	3.6	100.8	95
29	8/3/2007	JLD	20' NORTH, 40' EAST	117.5	10	7192G	130.2	3.8	97.7	95
30	8/3/2007	JLD	12' NORTH, 5' EAST	119	10	7192G	128.2	2.8	96.2	95
31	8/3/2007	JLD	35' NORTH, 15' EAST	119	10	7192G	130.9	3.9	98.2	95
32	8/3/2007	JLD	0' NORTH, 25' EAST	119	10	7192G	127.7	3.6	95.8	95
33	8/3/2007	JLD	10' NORTH, 45' EAST	119	10	7192G	131.0	3.4	98.3	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
7192G	8/1/2007	Maietta - Baldwin Pit	Aggregate Subbase (Type D)	ASTM D-1557 Modified C	133.3	7.3	

Elevation Notes:

Comments:

Reviewed By

S.W.COLE ENGINEERING, INC.

Report of Field Density
ASTM D2922

Project: **PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING** Project Number: **06-1271.1**

Client: **SHERIDAN STREET LLC**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
34	8/3/2007	JLD	6' NORTH, 5' EAST	117.5	10	7192G	134.4	3.6	100.8	95
35	8/3/2007	JLD	20' NORTH, 40' EAST	117.5	10	7192G	130.2	3.8	97.7	95
36	8/3/2007	JLD	12' NORTH, 5' EAST	119	10	7192G	128.2	2.8	96.2	95
37	8/3/2007	JLD	35' NORTH, 15' EAST	119	10	7192G	130.9	3.9	98.2	95
38	8/3/2007	JLD	0' NORTH, 25' EAST	119	10	7192G	127.7	3.6	95.8	95
39	8/3/2007	JLD	10' NORTH, 45' EAST	119	10	7192G	131.0	3.4	98.3	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
7192G	8/1/2007	Maietta - Baldwin Pit	Aggregate Subbase (Type D)	ASTM D-1557 Modified C	133.3	7.3	

Elevation Notes:

Comments:

Reviewed By

S.W.COLE ENGINEERING, INC.

Report of Field Density
ASTM D2922

Project: **PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING** Project Number: **06-1271.1**

Client: **SHERIDAN STREET LLC**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
43	8/20/2007	DAC	65' S OF N/1 FOOTING LINE	119.5	12	7192G	127.1	2.2	95.3	95
44	8/20/2007	DAC	75' S & 24' W OF N/1	119.5	12	7192G	128.9	3.9	96.7	95
45	8/20/2007	DAC	27' W OF N/1 FOOTING LINE	119.5	12	7192G	129.3	2.1	97.0	95
46	8/20/2007	DAC	25' S OF N/1 FOOTING LINE	119.5	12	7192G	131.1	2.3	98.3	95
47	8/20/2007	DAC	30' S & 30' W OF N/1	119.5	12	7192G	131.2	3.0	98.4	95
48	8/20/2007	DAC	17'N & 20' W OF N/8	119.5	12	7192G	129.2	3.1	96.9	95
49	8/20/2007	DAC	22' N & 13' E OF G/8	119.5	12	7192G	127.3	3.1	95.5	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
7192G	8/1/2007	Maietta - Baldwin Pit	Aggregate Subbase (Type D)	ASTM D-1557 Modified C	133.3	7.3	

Elevation Notes:

Comments:

Reviewed By

S.W.COLE ENGINEERING, INC.

Report of Field Density

ASTM D2922

Project: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client: SHERIDAN STREET LLC

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
55	10/4/2007	VLT	RE-TEST SSSM GTR 125 SHERIDAN STREET	1' BFG	12	7511G	129.0	3.3	96.0	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
7511G	9/20/2007	inplace/ from Sheridan St	Existing Gravel	ASTM D-1557 Modified C	134.4	6.9	

Elevation Notes:

Comments:

BFG- BELOW FINISH GRADE

Reviewed By

S.W.COLE ENGINEERING, INC.

Report of Field Density
ASTM D2922

Project: **PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING** Project Number: **06-1271.1**

Client: **SHERIDAN STREET LLC**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
50	9/20/2007	DAC	SSWM 35' N OF 125 SHERIDAN STREET	4" BFG	12	7192G	131.9	3.7	98.9	95
51	9/20/2007	DAC	SSWM CTR 121 SHERIDAN STREET	4" BFG	12	7192G	131.2	2.7	98.4	95
52	9/20/2007	DAC	SSSM CTR 125 SHERIDAN STREET	2" BFG	12	7511G	127.0	2.4	94.5	95
53	9/20/2007	DAC	SSSD 25' S OF CTR 125 SHERIDAN STREET	4"BFG	12	7192G	129.9	3.1	97.4	95
54	9/20/2007	DAC	SSSD 25' S OF CTR 134 SHERIDAN STREET	4"BFG	12	7192G	131.2	1.9	98.4	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
7192G	8/1/2007	Maietta - Baldwin Pit	Aggregate Subbase (Type D)	ASTM D-1557 Modified C	133.3	7.3	
7511G	9/20/2007	inplace/ from Sheridan St	Existing Gravel	ASTM D-1557 Modified C	134.4	6.9	

Elevation Notes:

Comments:

SSWM- SHERIDAN ST WATER MAIN SSSD- SHERIDAN ST STORM DRAIN SSSM- SHERIDAN ST SEWER MAIN
BFG- BELOW FINISH GRADE

Reviewed By

S.W.COLE ENGINEERING, INC.

Report of Field Density
ASTM D2922

Project: **PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING** Project Number: **06-1271.1**

Client: **SHERIDAN STREET LLC**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
56	10/18/2007	DMR	4-D	3' BTW	10	7192G	126.8	3.4	95.1	95
57	10/18/2007	DMR	4-B	3' BTW	10	7192G	127.3	4.0	95.5	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
7192G	8/1/2007	Maietta - Baldwin Pit	Aggregate Subbase (Type D)	ASTM D-1557 Modified C	133.3	7.3	

Elevation Notes:
BTW=BELOW TOP OF WALL

Comments:

Reviewed By

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name:	Sheridan Heights	**Project No:**	06-1271.1
Client:	Sheridan Street, LLC	**Date:**	August 22, 2007
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐		August 23, 2007
Placement Location:	Footing: 4'W of K/1 to 8'S of N/7		

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	Per reinforcing plans
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	Within Tolerances
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	Per S-3.0 PSE plans
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs and Conc. bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	Acceptable
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	Per approve plans
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Compacted fill material

Referenced Drawings	**Date**	**Page**	**Rev.**	**ASTM**	**GRADE**
HarMac Rebar and Steel Corporation	6/29/07	R1	8/6/07	**A 615** ☒	**40** ☐ **50** ☐ **60** ☒
	6/29/07	R2	8/6/07	**A 616** ☐ **A 617** ☐	**75** ☐
				A 706 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Required mix used	Yes ☒	☐	☐	3000psi, ¾" ,MRWR
Placement and consolidation of concrete observed	Yes ☒	☐	☐	Acceptable
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	Tailgated
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	N/A
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	Adequate for placement
Even layering around openings and embedments	Yes ☒	☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	☐	☒	

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-1 & 792-2 ←*refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Specified finish	Yes ☒	☐	☐	Trowel finish
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	No protection applied
Proper curing procedures implemented	Yes ☐	☐	☒	Forms removed on 8/23/07

NON-CONFORMANCE ITEMS OBSERVED Yes ☒ No ☐

Non-conformance item description: W/C (Water/cement ratio) in excess on 1st load.

Action taken by SWCE: Notified Portland Builders superintendent, Maietta Construction foreman, Auburn Concrete mixer driver and cast set of cylinders from load.

N/O = Not Observed

ATTACHMENTS Y☒ N☐

PHOTOS

NOTES:

Discussion was had regarding the W/C ratio for the 1st load which was placed with a .59 W/C ratio as calculated using the batch weights provided by Auburn Concrete and including the 10 gallons of water added onsite by the driver. Superplasticizer was added by Tom Flaherty (Auburn Concrete Q/C) to limit excess of W/C.

SWCE REPRESENTATIVE: David A CoWallis Jr. REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name: Sheridan Heights **Project No:** 06-1271.1

Client: Sheridan Street, LLC **Date:** August 27, 2007

Placement Type: Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐

Placement Location: 1 line/7'W of E to 4'W of K and 8'N of G/5 to 8's of N/7

PRE PLACEMENT OBSERVATIONS	In Compliance		N/O	Comments
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	Per reinforcing plans
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	Within Tolerances
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	Per S-3.0 PSE plans
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs and Conc. bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	Acceptable
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	Per approve plans
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Compacted fill material

Footing?

Referenced Drawings	Date	Page	Rev.	ASTM	GRADE
HarMac Rebar and Steel Corporation	6/29/07	R1	8/6/07	A 615 ☒	40 ☐ 50 ☐ 60 ☒
	6/29/07	R2	8/6/07	A 616 ☐	75 ☐
				A 617 ☐	
				A 706 ☐	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	In Compliance		N/O	Comments
Required mix used	Yes ☒	☐	☐	3000psi, ¾" aggr.
Placement and consolidation of concrete observed	Yes ☒	☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	Tailgate
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	
Even layering around openings and embedments	Yes ☐	☐	☒	No embedments
Removal of temporary ties and spacers	Yes ☐	☐	☒	

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-3 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	In Compliance		N/O	Comments
Specified finish	Yes ☐	☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☐	☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

NOTES: Tested 1st 2 loads of 28 cy of concrete delivered.

ATTACHMENTS Y☐ N☒

PHOTOS

SWCE REPRESENTATIVE: Dale Rickards REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name: Sheridan Heights **Project No:** 06-1271.1

Client: Sheridan Street, LLC **Date:** August 29, 2007

Placement Type: Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☒

Placement Location: Interior spread footings on M Line at lines 3 thru 7, and canopy pier footings at N/8 and G/8

PRE PLACEMENT OBSERVATIONS	In Compliance		N/O	Comments
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	Per reinforcing plans
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	Within Tolerances
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	N/A
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs and Conc. bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	Small amount of rust
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	Per approved plans
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Compacted fill material and crushed stone

Referenced Drawings	Date	Page	Rev.	ASTM	GRADE
HarMac Rebar and Steel Corporation	6/29/07	R1	8/6/07	A 615 ☒	40 ☐ 50 ☐ 60 ☒
	6/29/07	R2	8/6/07	A 616 ☐ A 617 ☐	75 ☐
				A 706 ☐	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	In Compliance		N/O	Comments
Required mix used	Yes ☒	☐	☐	3000psi, ¾" ,MRWR
Placement and consolidation of concrete observed	Yes ☒	☐	☐	Acceptable
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	Tailgated
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	N/A
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	Adequate for placement
Even layering around openings and embedments	Yes ☒	☐	☐	Anchor bolts "Wet-stuck" SEE NOTES
Removal of temporary ties and spacers	Yes ☐	☐	☒	

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-4 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	In Compliance		N/O	Comments
Specified finish	Yes ☒	☐	☐	Trowel finish
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	No protection applied
Proper curing procedures implemented	Yes ☐	☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

ATTACHMENTS Y☒ N☐

PHOTOS

NOTES:

SWC received a copy from Randy (Maietta Construction) of the anchor bolts shop drawings from Precision Welding & Fabrication, Inc. dated 7-16-07 and for field 8-22-07. SWC spoke with Randy and discussed that the anchor bolts appeared to be ¾" zinc threaded rod and the shop drawings and structural details require A 307 anchor bolts with nuts.

SWCE REPRESENTATIVE: David A CoWallis Jr. REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name:	Sheridan Heights	**Project No:**	06-1271.1
Client:	Sheridan Street, LLC	**Date:**	8-30-07
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐		
Placement Location:	8 Line & G Line from 5 – 8 Lines		

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☒	I

Referenced Drawings	**Date**	**Page**	**Rev.**	**ASTM**	**GRADE**
Harmac Rebar and Steel Corp.	6-29-07	R1-R4		**A 615** ☒	**40** ☐ **50** ☐ **60** ☒
	8-06-07	R1-R4	Rev. 1	**A 616** ☐	**75** ☐
				A 617 ☐	
				A 706 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Required mix used	Yes ☒	☐	☐	3000 psi-3/4" aggr.
Placement and consolidation of concrete observed	Yes ☒	☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	
Even layering around openings and embedments	Yes ☒	☐	☐	
Removal of temporary ties and spacers	Yes ☐	☐	☒	None used

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-5 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Specified finish	Yes ☐	☐	☒	Troweled
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☐	☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

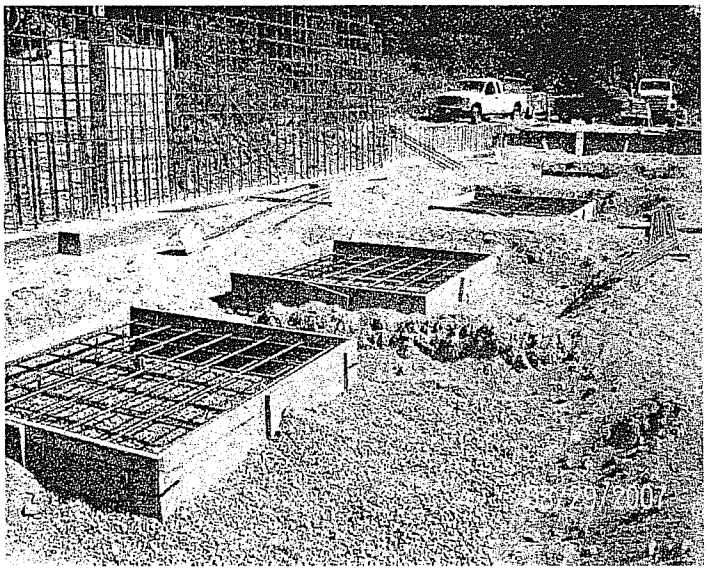
N/O = Not Observed

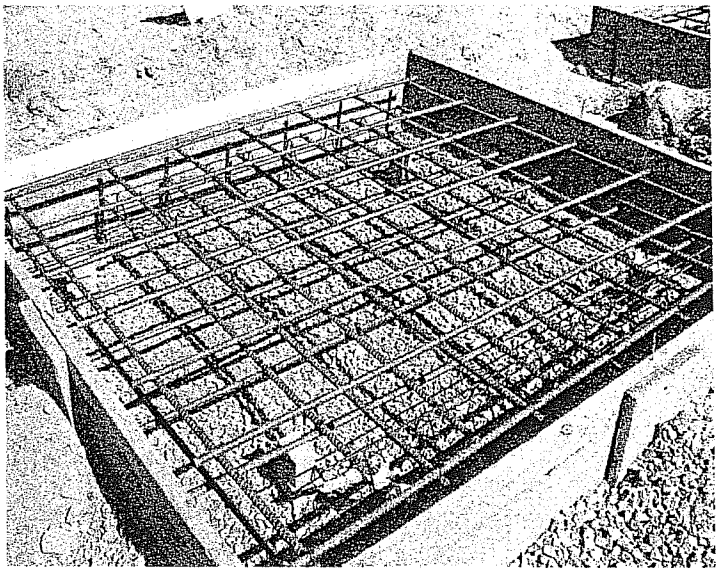
NOTES:

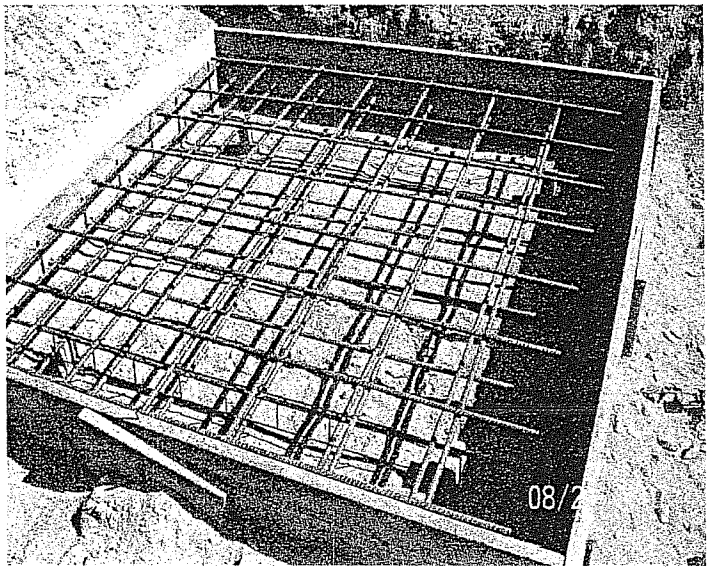
ATTACHMENTS Y☐ N☒

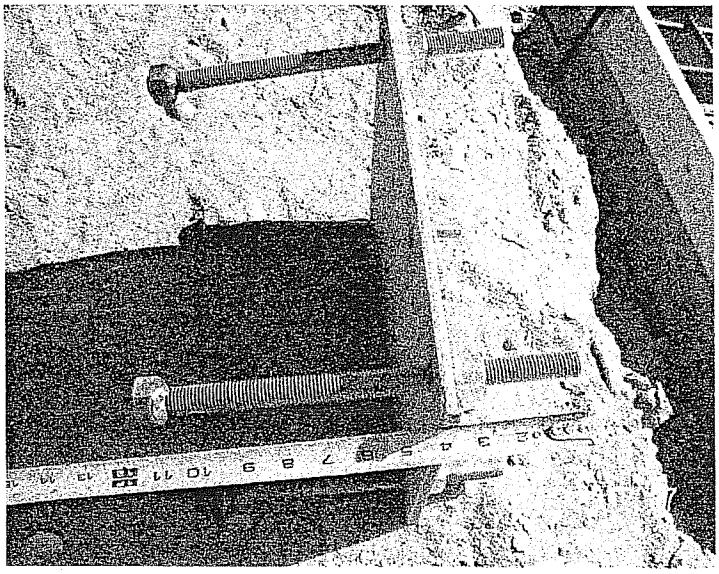
PHOTOS

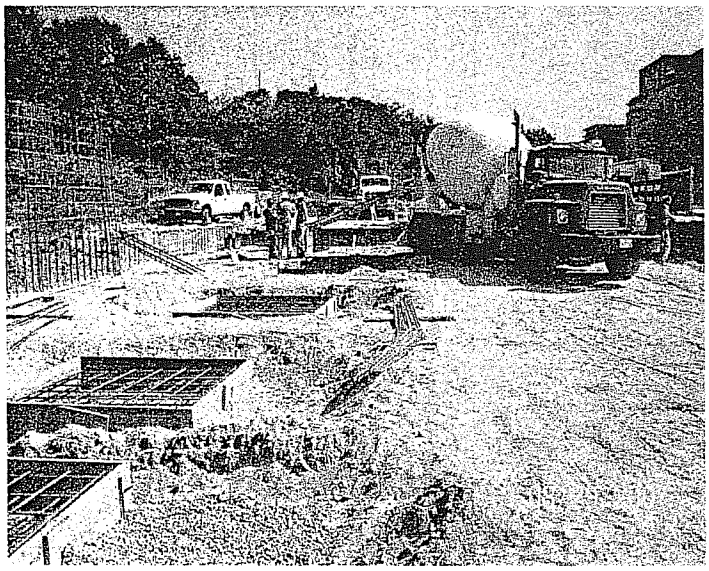
SWCE REPRESENTATIVE: Dale Rickards REVIEWED BY: RED

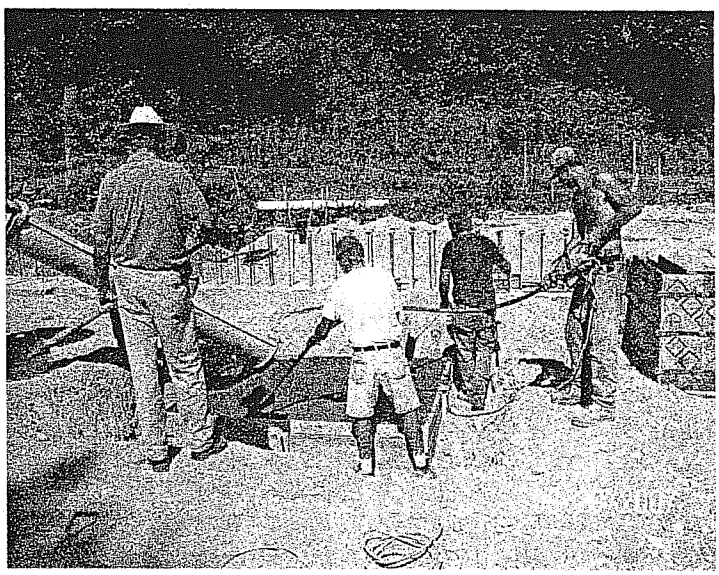


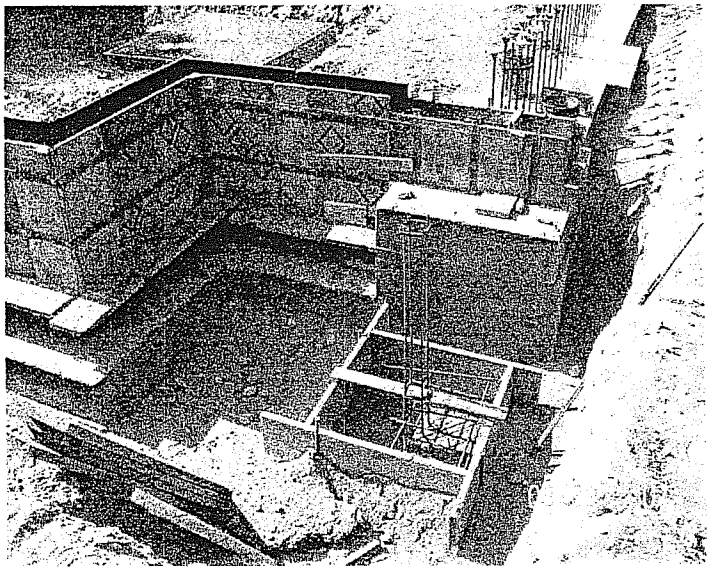


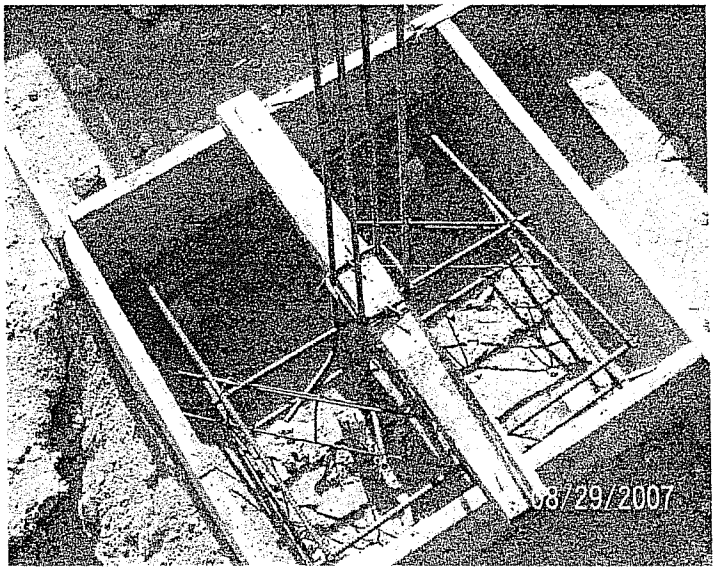


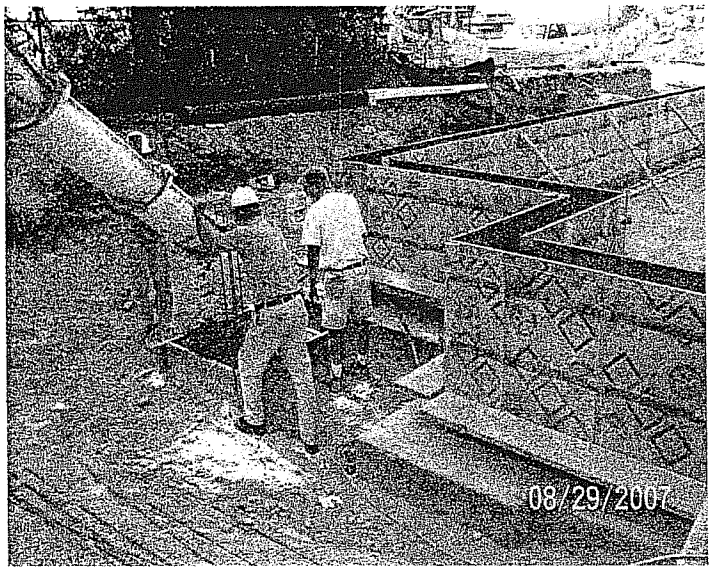









08/29/2007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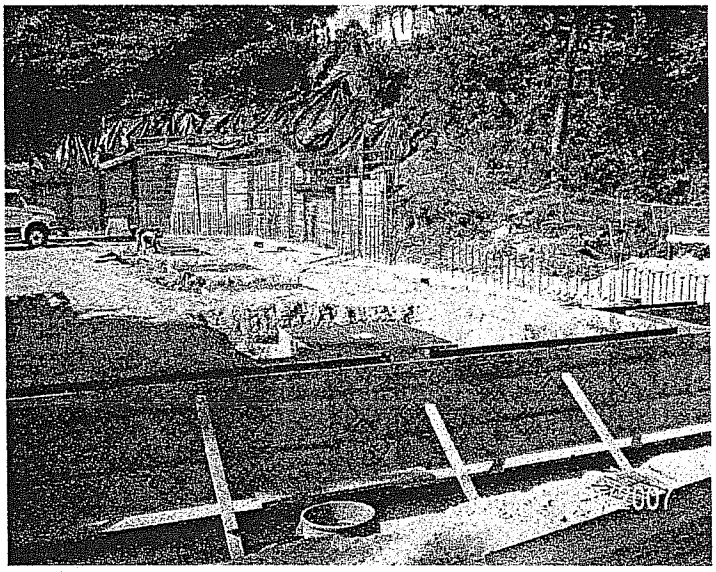

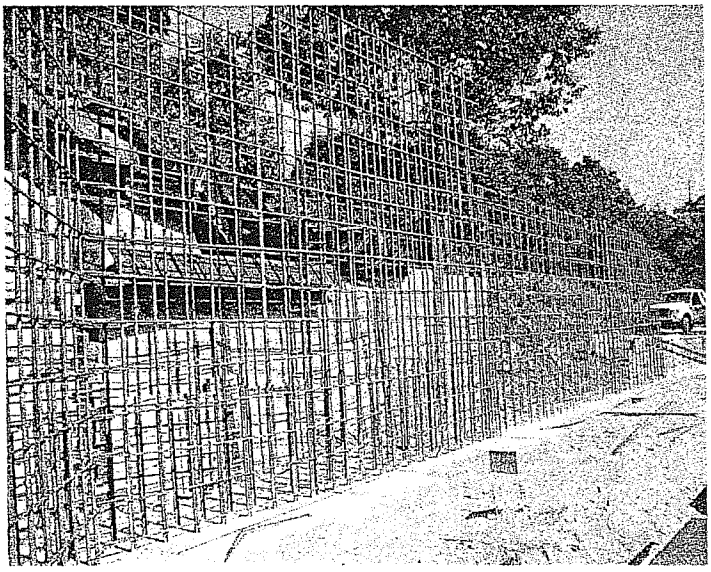

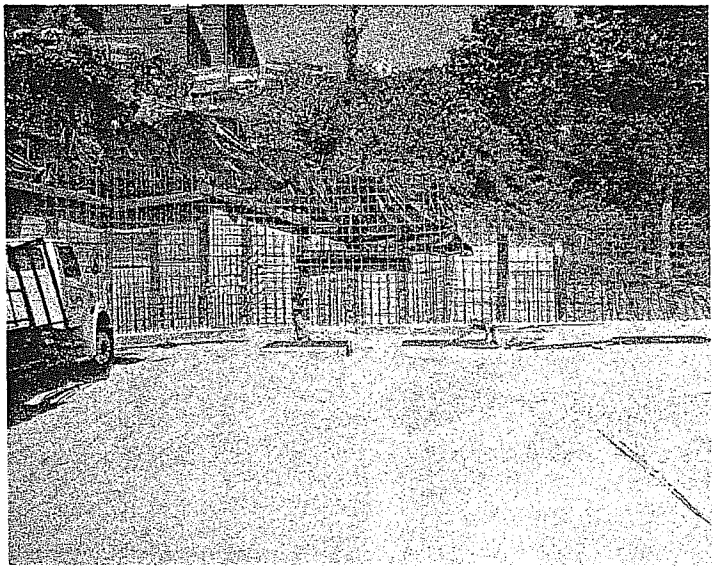

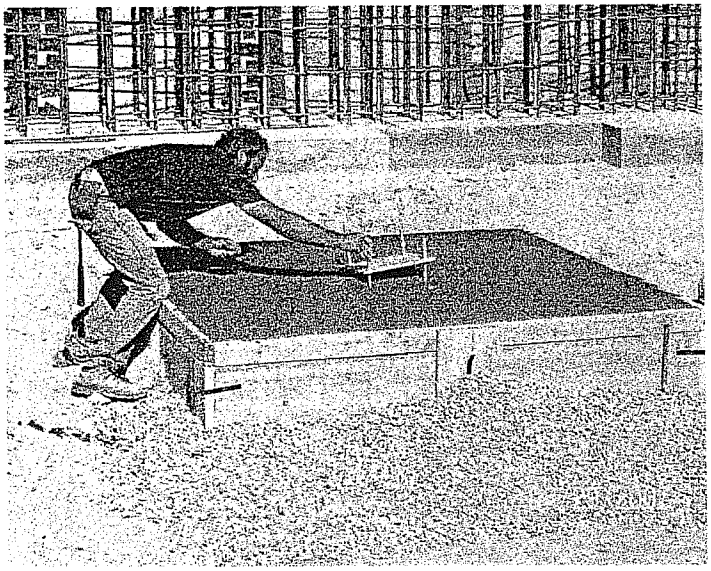

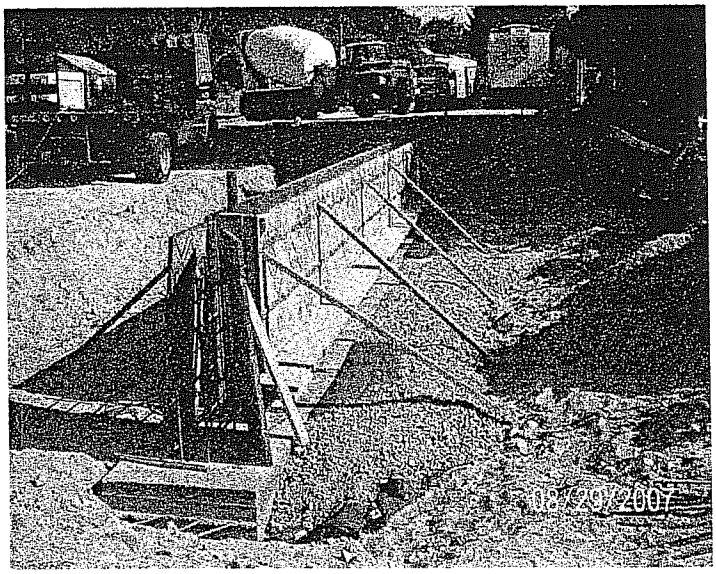
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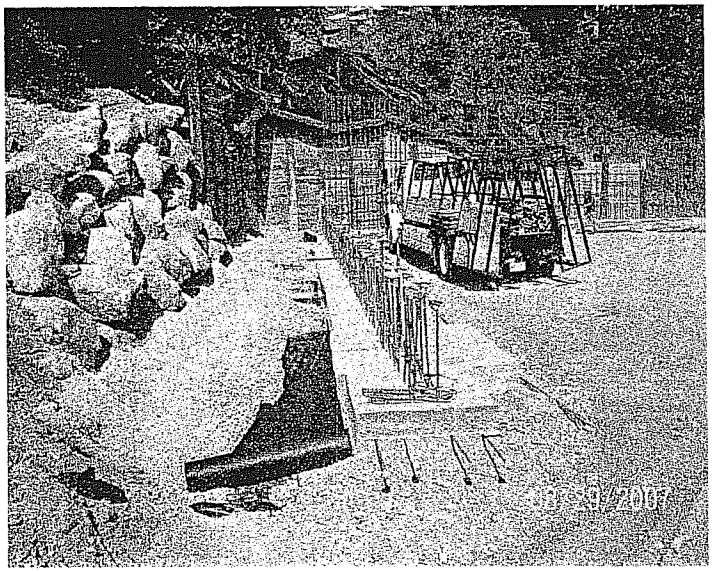


S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name:	Sheridan Heights	**Project No:**	06-1271.1
Client:	Sheridan Street, LLC	**Date:**	9-12-07
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐		
Placement Location:	N-Line		

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☒	I

Referenced Drawings	**Date**	**Page**	**Rev.**	**ASTM**	**GRADE**
Harmac	6-29-07	R2 + R3		A 615 ☒	40 ☐ 50 ☐ 60 ☒
				A 616 ☐	75 ☐
				A 617 ☐	
				A 706 ☐	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Required mix used	Yes ☒	☐	☐	4000 psi-3/4" aggr.
Placement and consolidation of concrete observed	Yes ☒	☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	
Even layering around openings and embedments	Yes ☒	☐	☐	
Removal of temporary ties and spacers	Yes ☐	☐	☒	None used

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-6 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Specified finish	Yes ☐	☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☐	☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

NOTES:

ATTACHMENTS Y☐ N☒

PHOTOS

SWCE REPRESENTATIVE: Dale Rickards REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name:	Sheridan Heights	**Project No:**	06-1271.1
Client:	Sheridan Street, LLC	**Date:**	9-20-07
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☐ Other ☐		
Placement Location:	Int. Ftgs. H Line/1.8 – 7 and Wall 12'E L/1 to 6' W E/1		

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	Adequate cover
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs vert.
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	

Referenced Drawings	**Date**	**Page**	**Rev.**	**ASTM**	**GRADE**
Harmac Rebar and Steel Corp.	6-29-07	R1-R4		**A 615** ☒	**40** ☐ **50** ☐ **60** ☒
	8-06-07	R1-R4	Rev. 1	**A 616** ☐	**75** ☐
	8-22-07	R5		**A 617** ☐	
				A 706 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Required mix used	Yes ☒	☐	☐	4000 psi-3/4" aggr.
Placement and consolidation of concrete observed	Yes ☒	☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	Vibrator used
Even layering around openings and embedments	Yes ☒	☐	☐	
Removal of temporary ties and spacers	Yes ☐	☐	☒	None used

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-7 & 8 ←*refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Specified finish	Yes ☒	☐	☐	Troweled
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☐	☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

NOTES: Polyheed 1020 Mid-range water reducer used.

ATTACHMENTS Y☐ N☒

PHOTOS

SWCE REPRESENTATIVE: David A. CoWallis REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name:	Sheridan Heights	**Project No:**	06-1271.1
Client:	Sheridan Street, LLC	**Date:**	9-25-07
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐		
Placement Location:	G-4.3 to F.2-2		

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☒	I

Referenced Drawings	**Date**	**Page**	**Rev.**	**ASTM**	**GRADE**
Foundation Plan		R1	8/6/07	A 615 ☒	40 ☐ 50 ☐ 60 ☒
Foundation Details		R2	8/6/07	A 616 ☐	75 ☐
Elevation and Bending Details		R4	8/6/07	A 617 ☐	
				A 706 ☐	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Required mix used	Yes ☒	☐	☐	
Placement and consolidation of concrete observed	Yes ☒	☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	
Even layering around openings and embedments	Yes ☒	☐	☐	
Removal of temporary ties and spacers	Yes ☐	☐	☒	

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-9 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Specified finish	Yes ☐	☐	☒	Troweled
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☐	☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

NOTES:

ATTACHMENTS Y☐ N☒

PHOTOS

SWCE REPRESENTATIVE: Corey Tielinen REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name:	Sheridan Heights	**Project No:**	06-1271.1
Client:	Sheridan Street, LLC	**Date:**	9-26-07
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐		
Placement Location:	Elevator pit walls & walls between G & elevator pit		

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☒	I

Referenced Drawings	**Date**	**Page**	**Rev.**	**ASTM**	**GRADE**
Harmac Rebar and Steel Corp.	6-29-07	R1-R4		A 615 ☒	40 ☐ 50 ☐ 60 ☒
	8-06-07	R1-R4	Rev. 1	A 616 ☐	75 ☐
				A 617 ☐	
				A 706 ☐	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Required mix used	Yes ☒	☐	☐	4000 psi-3/4" aggr.
Placement and consolidation of concrete observed	Yes ☒	☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	
Even layering around openings and embedments	Yes ☒	☐	☐	
Removal of temporary ties and spacers	Yes ☐	☐	☒	None used

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-10 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Specified finish	Yes ☐	☐	☒	Troweled
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☐	☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

NOTES:

ATTACHMENTS Y☐ N☒

PHOTOS

SWCE REPRESENTATIVE: Dale Rickards REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name: Sheridan Heights **Project No:** 06-1271.1

Client: Sheridan Street, LLC **Date:** 10/4/07

Placement Type: Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐

Placement Location: Footings line D to A, 1 to 5

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	Vert. dowels wet stuck
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See notes
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs and Conc. bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Compacted fill material

Referenced Drawings	**Date**	**Page**	**Rev.**	**ASTM**	**GRADE**
HarMac Rebar and Steel Corporation	6/29/07	R2	8/6/07	A 615 ☒	40 ☐ 50 ☐ 60 ☒
	6/29/07	R3	8/6/07	A 616 ☐ A 617 ☐	75 ☐
				A 706 ☐	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Required mix used	Yes ☒	☐	☐	3000psi, ¾" , No air
Placement and consolidation of concrete observed	Yes ☒	☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	Pumped
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	Adequate for placement
Even layering around openings and embedments	Yes ☒	☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	☐	☒	

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-11 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Specified finish	Yes ☒	☐	☐	Troweled
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☐	☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

ATTACHMENTS Y☐ N☒

PHOTOS

NOTES:

SWC spoke to Randy w/ Maietta after observing longitudinal bars not continuous, too short at line E-4, E-5. Randy stated foundation plan changed 4 days before pour making footing longer than originally planned. Rebar had already been ordered. Extra rebar added at corner E-4 and E-5.

SWCE REPRESENTATIVE: VLT REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name: Sheridan Heights **Project No:** 06-1271.1

Client: Sheridan Street, LLC **Date:** 10/15-07

Placement Type: Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐

Placement Location: A/1 to D/1 and D/1 to D/5

PRE PLACEMENT OBSERVATIONS	In Compliance		N/O	Comments
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	Per plans
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	Within tolerence
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	Acceptable
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☒	

Referenced Drawings	Date	Page	Rev.	ASTM	GRADE
Harmac Rebar and Steel Corp.	6-29-07	R1-R4		A 615 ☒	40 ☐ 50 ☐ 60 ☒
	8-06-07	R1-R4	Rev. 1	A 616 ☐ A 617 ☐	75 ☐
				A 706 ☐	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	In Compliance		N/O	Comments
Required mix used	Yes ☒	☐	☐	3000 psi-3/4" aggr.
Placement and consolidation of concrete observed	Yes ☒	☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	Pumped
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	Several
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	Vibrated
Even layering around openings and embedments	Yes ☒	☐	☐	
Removal of temporary ties and spacers	Yes ☐	☐	☒	None used

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-12 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	In Compliance		N/O	Comments
Specified finish	Yes ☐	☐	☒	Troweled
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☐	☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

NOTES: Polyheed 1020 used

ATTACHMENTS Y☐ N☒

PHOTOS

SWCE REPRESENTATIVE: TAP REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name: Sheridan Heights **Project No:** 06-1271.1

Client: Sheridan Street, LLC **Date:** 11-27-07

Placement Type: Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐

Placement Location: Elevated Slab

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Bar Size (diameter, length, bend and anchorage)	Yes ☐	No ☐	☐	None used
Location (# of bars, spacing, and cover)	Yes ☐	No ☐	☐	None used
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	

Referenced Drawings	**Date**	**Page**	**Rev.**	**ASTM**	**GRADE**
				A 615 ☐	40 ☐ 50 ☐ 60 ☐
				A 616 ☐	75 ☐
				A 617 ☐	
				A 706 ☐	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Required mix used	Yes ☒	☐	☐	3000 psi-3/4" aggr.
Placement and consolidation of concrete observed	Yes ☒	☐	☐	screed
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	pump
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	single
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	screed
Even layering around openings and embedments	Yes ☒	☐	☐	
Removal of temporary ties and spacers	Yes ☐	☐	☒	None used

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-16 & 17 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Specified finish	Yes ☐	☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☒	☐	☐	Area heated from below

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

NOTES: Polyheed 1020 Mid-range water reducer used. In-place concrete temp. recorded at between 65-70.

ATTACHMENTS Y☐ N☒

PHOTOS

SWCE REPRESENTATIVE: DMR REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name:	Sheridan Heights	**Project No:**	06-1271.1
Client:	Sheridan Street, LLC	**Date:**	11-28-2007
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐		
Placement Location:	Garage – Slab on grade		

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	Adequate cover
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	chairs
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Vapor barrier

Referenced Drawings	**Date**	**Page**	**Rev.**	**ASTM**	**GRADE**
Harmac Rebar and Steel Corp.	6-29-07	R1-R4		**A 615** ☒	**40** ☐ **50** ☐ **60** ☒
	8-06-07	R1-R4	Rev. 1	**A 616** ☐ **A 617** ☐	**75** ☐
				A 706 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Required mix used	Yes ☒	☐	☐	4000 psi-3/4" aggr.
Placement and consolidation of concrete observed	Yes ☒	☐	☐	Screed
Concrete properly conveyed to all areas of placement	Yes ☒	☐	☐	Pumped
Depth of layer maximum limits not exceeded	Yes ☒	☐	☐	Single
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	☐	☐	Screed
Even layering around openings and embedments	Yes ☒	☐	☐	
Removal of temporary ties and spacers	Yes ☐	☐	☒	None used

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 792-18 & 19 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	***Comments***
Specified finish	Yes ☐	☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	☐	☒	
Proper curing procedures implemented	Yes ☒	☐	☐	External heat

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Non-conformance item description:

Action taken by SWCE:

N/O = Not Observed

NOTES: Polyheed 1020 Mid-range water reducer used. Air temp during placement 65-70.

ATTACHMENTS Y☐ N☒

PHOTOS

SWCE REPRESENTATIVE: DMR REVIEWED BY: RED

S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client Contract Number:

Client: SHERIDAN STREET LLC

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 8/22/2007 **Time Cast:** 9:00 **Date Received:** 8/23/2007

Placement Location: FOOTING 4'W OF K/1 TO 8' S OF N/7

Placement Method: TAILGATE

Placement Vol. (yd³): 26

Cylinders Made By: DAC

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures:

TEST RESULTS

Slump (in) (C-143): **Slump WR:** 4.0

Air Content (%) (C-231): **Air WR:** 2.4

Air Temp (°F): 65

Conc. Temp (°F) (C-1064): 67

Load Number: 1

Mixer Number: 98

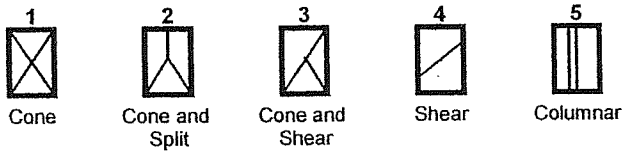
Ticket Number: 129470

Cubic Yards: 9

Design (psi): **3000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-1A		6.00	28.27	8/29/2007	Lab	**7**	4	83.0	**2940**
792-1B		6.00	28.27	9/19/2007	Lab	**28**	4	118.5	**4190**
792-1C		6.00	28.27	9/19/2007	Lab	**28**	4	123.0	**4350**
792-1D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING
Project Number: 06-1271.1
Client Contract Number:
Client: SHERIDAN STREET LLC
General Contractor:
Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 8/22/2007 **Time Cast:** 9:48 **Date Received:** 8/23/2007
Placement Location: FOOTING 4'W OF K/1 TO 8' S OF N/7

Placement Method: TAILGATE
Placement Vol. (yd^3): 26
Cylinders Made By: DAC
Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

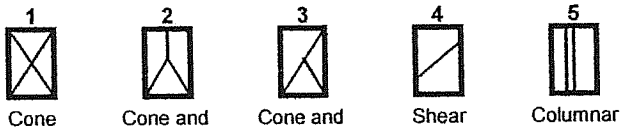
Admixtures:

TEST RESULTS

Slump (in) (C-143):	3.75	**Slump WR:**	4.0	**Load Number:**	2
Air Content (%) (C-231):	2.3	**Air WR:**	2.4	**Mixer Number:**	101
Air Temp (°F):	67			**Ticket Number:**	129473
Conc. Temp (°F) (C-1064):	70			**Cubic Yards:**	9
				Design (psi):	**3000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)^2	Date Of Test	Cure Type	**Age (days)**	Fracture Type	Load (kips)	**Strength (psi)**
792-2A		6.00	28.27	8/29/2007	Lab	**7**	4	80.5	**2850**
792-2B		6.00	28.27	9/19/2007	Lab	**28**	4	128.5	**4550**
792-2C		6.00	28.27	9/19/2007	Lab	**28**	4	129.5	**4580**
792-2D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client Contract Number:

Client: SHERIDAN STREET LLC

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 8/27/2007 **Time Cast:** 2:25

Date Received: 8/28/2007

Placement Location: FOOTINGS 8 LINE, G LINE 6 TO 8

Placement Method: TAILGATE

Cylinders Made By: DMR

Placement Vol. (yd³): 27

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: POLYHEED 1020

TEST RESULTS

Slump (in) (C-143): 4.5

Air Content (%) (C-231): 5.3

Air Temp (°F): 75

Conc. Temp (°F) (C-1064): 73

Load Number: 1

Mixer Number: 117

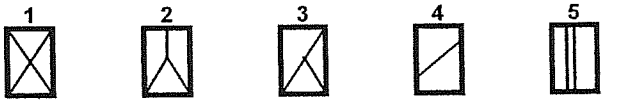
Ticket Number: 134366

Cubic Yards: 9

Design (psi): **3000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-3A		6.00	28.27	9/3/2007	Lab	**7**	4	89.5	**3170**
792-3B		6.00	28.27	9/24/2007	Lab	**28**	4	131.5	**4650**
792-3C		6.00	28.27	9/24/2007	Lab	**28**	4	126.0	**4460**
792-3D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client Contract Number:

Client: SHERIDAN STREET LLC

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 8/29/2007 **Time Cast:** **Date Received:** 8/30/2007

Placement Location: INTERIOR SPREAD FOOTINGS M LINE/3 THROUGH 7 AND CANOPY PIER FOOTINGS N/8 & G/8

Placement Method: TAILGATE

Placement Vol. (yd^3): 16

Cylinders Made By: DAC

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures:

TEST RESULTS

Slump (in) (C-143): 3.25

Air Content (%) (C-231): 2.1

Air Temp (°F): 79

Conc. Temp (°F) (C-1064): 81

Load Number: 1

Mixer Number: 94

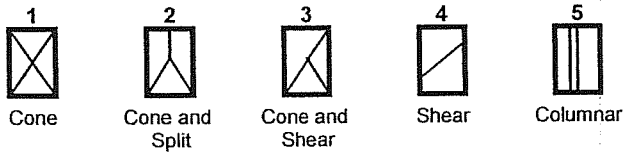
Ticket Number: 134387

Cubic Yards: 8

Design (psi): **3000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	**Age (days)**	Fracture Type	Load (kips)	**Strength (psi)**
792-4A		6.00	28.27	9/5/2007	Lab	**7**	4	86.5	**3060**
792-4B		6.00	28.27	9/26/2007	Lab	**28**	4	122.5	**4330**
792-4C		6.00	28.27	9/26/2007	Lab	**28**	4	122.0	**4320**
792-4D				Hold	Lab				

Fracture Types



Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client Contract Number:

Client: SHERIDAN STREET LLC

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 8/30/2007 **Time Cast:** 1:30 **Date Received:** 8/31/2007

Placement Location: WALL PLACEMENT 8 LINE G LINE 5 TO 8

Placement Method:

Placement Vol. (yd^3):

Cylinders Made By: DMR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: POLYHEED 1020

TEST RESULTS

Slump (in) (C-143): 3/4 **Slump WR:** 5

Air Content (%) (C-231):

Air Temp (°F): 75

Conc. Temp (°F) (C-1064): 76

Load Number: 1

Mixer Number: 97

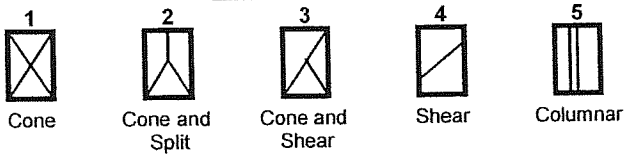
Ticket Number: 134422

Cubic Yards: 8

Design (psi): **3000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)^2	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-5A		6.00	28.27	9/6/2007	Lab	**7**	4	127.5	**4510**
792-5B		6.00	28.27	9/27/2007	Lab	**28**	4	156.5	**5540**
792-5C		6.00	28.27	9/27/2007	Lab	**28**	4	157.0	**5550**
792-5D				Hold	Lab				

Fracture Types



Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client Contract Number:

Client: SHERIDAN STREET LLC

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/12/2007 **Time Cast:** 2:20 **Date Received:** 9/13/2007

Placement Location: WALL PLACEMENT N-LINE

Placement Method: PUMPED

Cylinders Made By: DMR

Placement Vol. (yd^3): 54

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: POLYHEED 1020

TEST RESULTS

Slump (in) (C-143): 5

Air Content (%) (C-231): 5.4

Air Temp (°F): 70

Conc. Temp (°F) (C-1064): 69

Load Number: 3

Mixer Number: 98

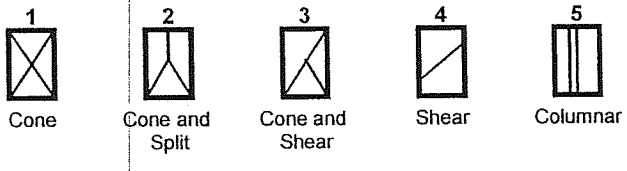
Ticket Number: 136784

Cubic Yards: 9

Design (psi): **4000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-6A		6.00	28.27	9/19/2007	Lab	**7**	4	116.5	**4120**
792-6B		6.00	28.27	10/10/2007	Lab	**28**	4	133.5	**4720**
792-6C		6.00	28.27	10/10/2007	Lab	**28**	4	135.5	**4790**
792-6D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client Contract Number:

Client: SHERIDAN STREET LLC

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/20/2007 **Time Cast:** 9:55 **Date Received:** 9/21/2007

Placement Location: INTERIOR SPREAD FOOTINGS H LINE / 1.8 TO 7 AND FOUNDATION WALL 12' E OF L/1 TO 6' W OF E/1

Placement Method: PUMP TRUCK

Placement Vol. (yd³): 64

Cylinders Made By: DAC

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: POLYHEED 1020 (MRWR)

TEST RESULTS

Slump (in) (C-143): **Slump WR:** 6.25

Air Content (%) (C-231): **Air WR:** 6.6

Air Temp (°F): 61

Conc. Temp (°F) (C-1064): 70

Load Number: 5

Mixer Number: 95

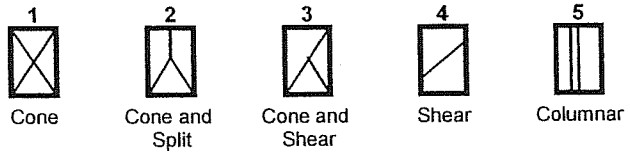
Ticket Number: 1346.16

Cubic Yards: 9.25

Design (psi): **4000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-8A		6.00	28.27	9/27/2007	Lab	**7**	4	116.5	**4120**
792-8B		6.00	28.27	10/18/2007	Lab	**28**	4	159.5	**5640**
792-8C		6.00	28.27	10/18/2007	Lab	**28**	4	160.0	**5660**
792-8D				Hold	Lab				

Fracture Types



Remarks:

S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client Contract Number:

Client: SHERIDAN STREET LLC

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/20/2007 **Time Cast:** 8:40 **Date Received:** 9/21/2007

Placement Location: INTERIOR SPREAD FOOTINGS H LINE / 1.8 TO 7 AND FOUNDATION WALL 12' E OF L/1 TO 6' W OF E/1

Placement Method: PUMP TRUCK

Placement Vol. (yd^3): 64

Cylinders Made By: DAC

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: POLYHEED 1020 (MRWR)

TEST RESULTS

Slump (in) (C-143): **Slump WR:** 5.5

Air Content (%) (C-231): **Air WR:** 6.

Air Temp (°F): 60

Conc. Temp (°F) (C-1064): 70

Load Number: 2

Mixer Number: 94

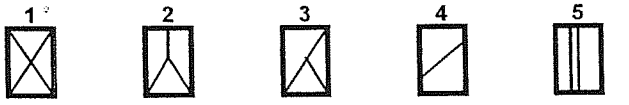
Ticket Number: 134608

Cubic Yards: 9.25

Design (psi): **4000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-7A		6.00	28.27	9/27/2007	Lab	**7**	4	140.0	**4950**
792-7B		6.00	28.27	10/18/2007	Lab	**28**	4	162.5	**5750**
792-7C		6.00	28.27	10/18/2007	Lab	**28**	4	166.5	**5890**
792-7D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client: SHERIDAN STREET LLC

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/25/2007 **Time Cast:** 9:20

Date Received: 9/26/2007

Placement Location: G - 5 TO F - 2 FOOTER

Placement Method: CHUTE

Cylinders Made By: CKT

Placement Vol. (yd^3): 16

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures:

TEST RESULTS

Slump (in) (C-143): 6.25

Air Content (%) (C-231): 7.0

Air Temp (°F): 66

Conc. Temp (°F) (C-1064): 68

Load Number: 1

Mixer Number: 116

Ticket Number: 136983

Cubic Yards: 8

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-9A		6.00	28.27	10/2/2007	Lab	7	4	87.0	3080
792-9B		6.00	28.27	10/23/2007	Lab	28	4	102.6	3630
792-9C		6.00	28.27	10/23/2007	Lab	28	4	99.0	3500
792-9D				Hold	Lab				

Fracture Types

Remarks:

S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING
Project Number: 06-1271.1
Client Contract Number:
Client: SHERIDAN STREET LLC
General Contractor:
Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/26/2007 **Time Cast:** 2:15 **Date Received:** 9/27/2007

Placement Location: ELEVATOR PIT WALLS WALL BETWEEN G + ELEVATOR PIT

Placement Method: TAILGATE
Cylinders Made By: DMR
Placement Vol. (yd³): 9
Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

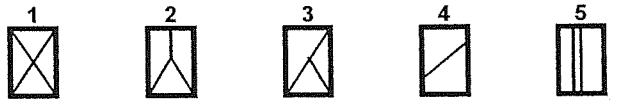
Admixtures: POLYHEED 1020

TEST RESULTS

Slump (in) (C-143): 4
Air Content (%) (C-231): 5.1
Air Temp (°F): 70
Conc. Temp (°F) (C-1064): 72
Load Number: 1
Mixer Number: 118
Ticket Number: 137078
Cubic Yards: 9
Design (psi): **4000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	**Age (days)**	Fracture Type	Load (kips)	**Strength (psi)**
792-10A		6.00	28.27	10/3/2007	Lab	**7**	4	127.0	**4490**
792-10B		6.00	28.27	10/24/2007	Lab	**28**	4	117.0	**4140**
792-10C		6.00	28.27	10/24/2007	Lab	**28**	4	139.5	**4930**
792-10D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING
Project Number: 06-1271.1
Client Contract Number:
Client: SHERIDAN STREET LLC
General Contractor:
Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/4/2007 **Time Cast:** 11:00 **Date Received:** 10/5/2007
Placement Location: FOOTINGS - LINE D TO A, 1 TO 5

Placement Method: PUMP
Cylinders Made By: VLT
Placement Vol. (yd³): 24
Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures
Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

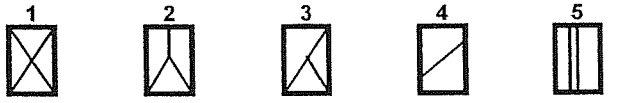
Admixtures: POLYHEED 1020

TEST RESULTS

Slump (in) (C-143): **Slump WR:** 6
Air Content (%) (C-231): **Air WR:** 2.1
Air Temp (°F): 78
Conc. Temp (°F) (C-1064): 74
Load Number: 2
Mixer Number: 117
Ticket Number: 18769
Cubic Yards: 8
Design (psi): **3500**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-11A		6.00	28.27	10/11/2007	Lab	**7**	4	103.0	**3640**
792-11B		6.00	28.27	11/1/2007	Lab	**28**	4	114.0	**4030**
792-11C		6.00	28.27	11/1/2007	Lab	**28**	4	123.5	**4370**
792-11D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client Contract Number:

Client: SHERIDAN STREET, LLC

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/26/2007 **Time Cast:**

Date Received: 10/27/2007

Placement Location:

Placement Method:

Placement Vol. (yd³):

Cylinders Made By: PORTLAND BUILDERS

Aggregate Size (in): 3/4

*** Test Cylinders Not Made By S. W. Cole Personnel**

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures:

TEST RESULTS

Slump (in) (C-143):

Air Content (%) (C-231):

Air Temp (°F):

Conc. Temp (°F) (C-1064):

Load Number:

Mixer Number:

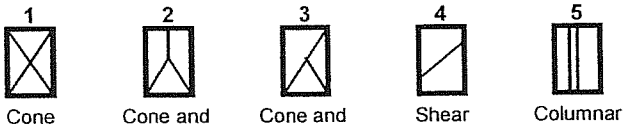
Ticket Number:

Cubic Yards:

Design (psi): **3000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	**Age (days)**	Fracture Type	Load (kips)	**Strength (psi)**
792-15A		6.00	28.27	11/2/2007	Lab	**7**	4	117.0	**4140**
792-15B		6.00	28.27	11/23/2007	Lab	**28**	4	148.0	**5240**
792-15C		6.00	28.27	11/23/2007	Lab	**28**	4	157.0	**5550**
792-15D				Hold	Lab				

Fracture Types



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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING
Project Number: 06-1271.1

Client: SHERIDAN STREET, LLC
Client Contract Number:

General Contractor:
Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/27/2007 **Time Cast:** 8:12
Date Received: 11/28/2007

Placement Location: BLDG SLAB 2ND LEVEL

Placement Method: PUMPED
Cylinders Made By: DMR

Placement Vol. (yd^3): 120
Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: 1% POZZUTEC
POLYHEED 1020

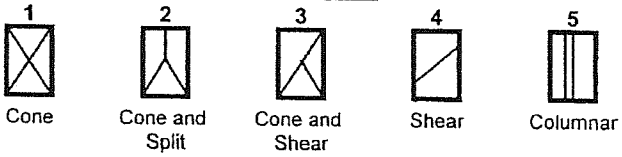
TEST RESULTS

Slump (in) (C-143): 6
Air Content (%) (C-231): 1.9
Air Temp (°F): 40
Conc. Temp (°F) (C-1064): 60

Load Number: 3
Mixer Number: 83
Ticket Number: 140774
Cubic Yards: 10
Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-16A		6.00	28.27	12/4/2007	Lab	7	4	99.5	3520
792-16B		6.00	28.27	12/25/2007	Lab	28	4	112.5	3980
792-16C		6.00	28.27	12/25/2007	Lab	28	4	110.0	3890
792-16D				Hold	Lab				

Fracture Types



Remarks:

S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING
Project Number: 06-1271.1

Client: SHERIDAN STREET, LLC
Client Contract Number:

General Contractor:
Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/27/2007 **Time Cast:** 9:02
Date Received: 11/28/2007

Placement Location: BLDG SLAB 2ND LEVEL

Placement Method: PUMPED
Cylinders Made By: DMR

Placement Vol. (yd³): 120
Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: 1% POZZUTEC
POLYHEED 1020

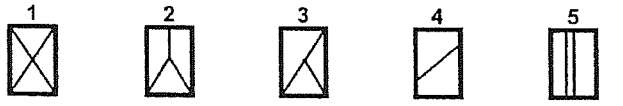
TEST RESULTS

Slump (in) (C-143): 5.5
Air Content (%) (C-231): 1.8
Air Temp (°F): 45
Conc. Temp (°F) (C-1064): 62

Load Number: 8
Mixer Number: 100
Ticket Number: 140784
Cubic Yards: 10
Design (psi): **3000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-17A		6.00	28.27	12/4/2007	Lab	**7**	4	102.5	**3630**
792-17B		6.00	28.27	12/25/2007	Lab	**28**	4	122.0	**4320**
792-17C		6.00	28.27	12/25/2007	Lab	**28**	4	125.0	**4420**
792-17D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING
Project Number: 06-1271.1

Client: SHERIDAN STREET, LLC
Client Contract Number:

General Contractor:
Concrete Supplier: DRAGON PRODUCTS

PLACEMENT INFORMATION

Date Cast: 11/28/2007 **Time Cast:** 7:30
Date Received: 11/29/2007

Placement Location: BUILDING SLAB 1ST LEVEL

Placement Method: LINE PUMP
Cylinders Made By: DMR

Placement Vol. (yd³): 120
Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: FIBERMESH, POLYHEED 1020, 1% POZZUTEC 20

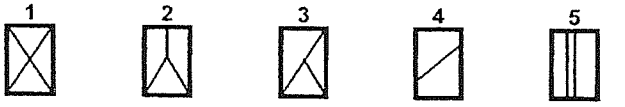
TEST RESULTS

Slump (in) (C-143): 6
Air Content (%) (C-231): 1.9
Air Temp (°F): 25
Conc. Temp (°F) (C-1064): 59

Load Number: 4
Mixer Number: 77
Ticket Number: 140834
Cubic Yards: 10
Design (psi): **4000**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-18A		6.00	28.27	12/5/2007	Lab	**7**	4	95.5	**3380**
792-18B		6.00	28.27	12/26/2007	Lab	**28**	4	119.0	**4210**
792-18C		6.00	28.27	12/26/2007	Lab	**28**	4	120.0	**4250**
792-18D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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S.W.COLE ENGINEERING, INC.

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - 135 SHERIDAN STREET - MATERIALS TESTING

Project Number: 06-1271.1

Client: SHERIDAN STREET, LLC

Client Contract Number:

General Contractor:

Concrete Supplier: DRAGON PRODUCTS

PLACEMENT INFORMATION

Date Cast: 11/28/2007 **Time Cast:** 8:23

Date Received: 11/29/2007

Placement Location: BUILDING SLAB 1ST LEVEL

Placement Method: LINE PUMP

Cylinders Made By: DMR

Placement Vol. (yd³): 120

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: FIBERMESH, POLYHEED 1020, 1% POZZUTEC 20

TEST RESULTS

Slump (in) (C-143): 6

Air Content (%) (C-231): 1.9

Air Temp (°F): 25

Conc. Temp (°F) (C-1064): 60

Load Number: 9

Mixer Number: 98

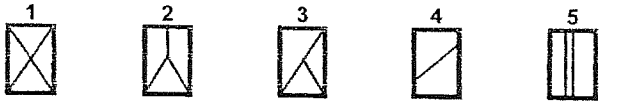
Ticket Number: 140847

Cubic Yards: 10

Design (psi): 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
792-19A		6.00	28.27	12/5/2007	Lab	7	4	96.0	3400
792-19B		6.00	28.27	12/26/2007	Lab	28	4	122.0	4320
792-19C		6.00	28.27	12/26/2007	Lab	28	4	122.0	4320
792-19D				Hold	Lab				

Fracture Types



1 Cone; 2 Cone and Split; 3 Cone and Shear; 4 Shear; 5 Columnar

Remarks:

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FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: August 27, 2007
Time: 3:00 PM

Weather: Sunshine
Temperature: 85 deg. F.
Contractor: Portland Builders
Site contact: Bill Cuddy, Josh Cushman

Project Items to be Observed:
Concrete Footings

Field Observations / Project Status:

1. Step footing at grid D/1 not yet observed but is expected during next placement (step footing required to conform with H1/S3.1 frost wall detail)
2. Installation of concrete footings in progress. Footing at grid N and from grid J/1 to N already placed.
3. Interior spread footings at garage not yet formed or placed.
4. Existing footing widths checked at random locations and found to be acceptable.
5. Vertical reinforcement at large retaining wall / basement wall measured at random locations and found to be acceptable.
6. Footings at grids D/1 to J/1, 8 and G placed during site visit. Use of concrete vibrator observed during placement.
7. Footing step at grid N/7.5 measured 2'-0" deep which is acceptable.
8. I was asked to contact SW Cole to request copies of clear site visit reports (preferably typed) from SW Cole for the dates of August 15 and August 16 along with the final SW Cole parking lot repair detail of the embankment at northeast corner of site. I called Roger Domingo and he said he will provide the site visit reports. Matt Lilley said that he must review the details designed by Fleming prior to finalizing his detail.
9. Contractor requested verification of the plan view locations for the following 3 steel beams indicated on drawing S4.0 (contractor is requested to provide architect with written questions if additional information is needed):
   a. W8x13 indicated at grid M.5 / 7.5 is located 7'-4" east of gridline M;
   b. W10x26 indicated at grid M.5 / 2 is located 7'-4" east of gridline M;
   c. W14x22 indicated at grid M / 2 is on gridline M.

Items Needing Correction:

Corrective action taken:

General:
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Report prepared by: David A. Price, P.E.
Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097

Distribution: Greg Shinberg, Shinberg Consulting LLC
Richard Lo, TFH Architects
Bill Cuddy, Portland Builders
Roger Domingo, Matt Lilley, SW Cole

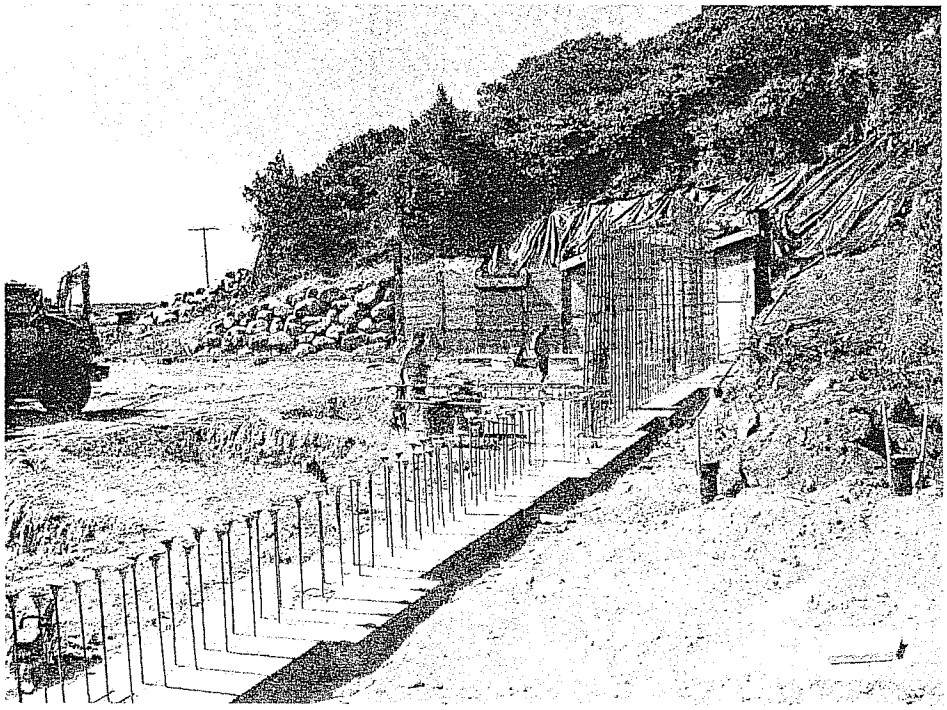

Photo # 1 – Existing Footing at grid N

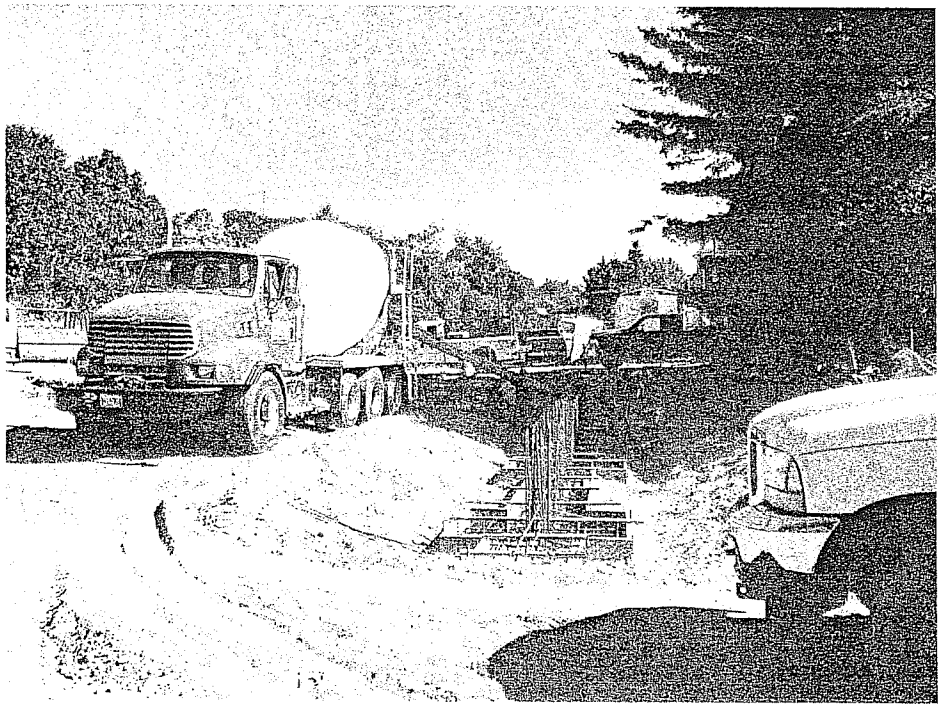

Photo # 2 – New footing placement at Grid G.

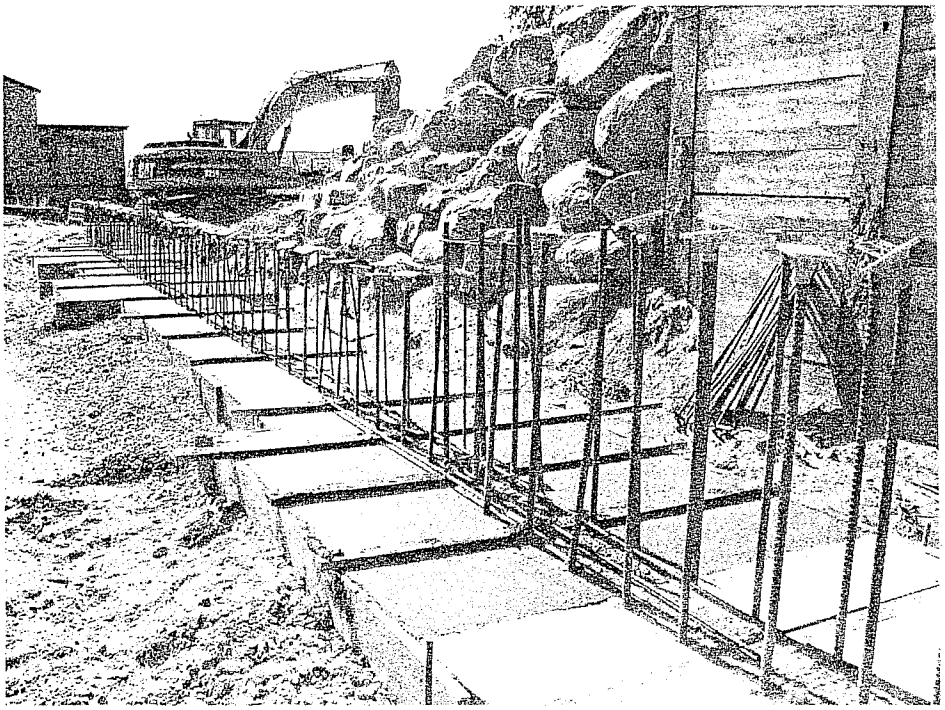

Photo # 3 - New footing at Grid 1.

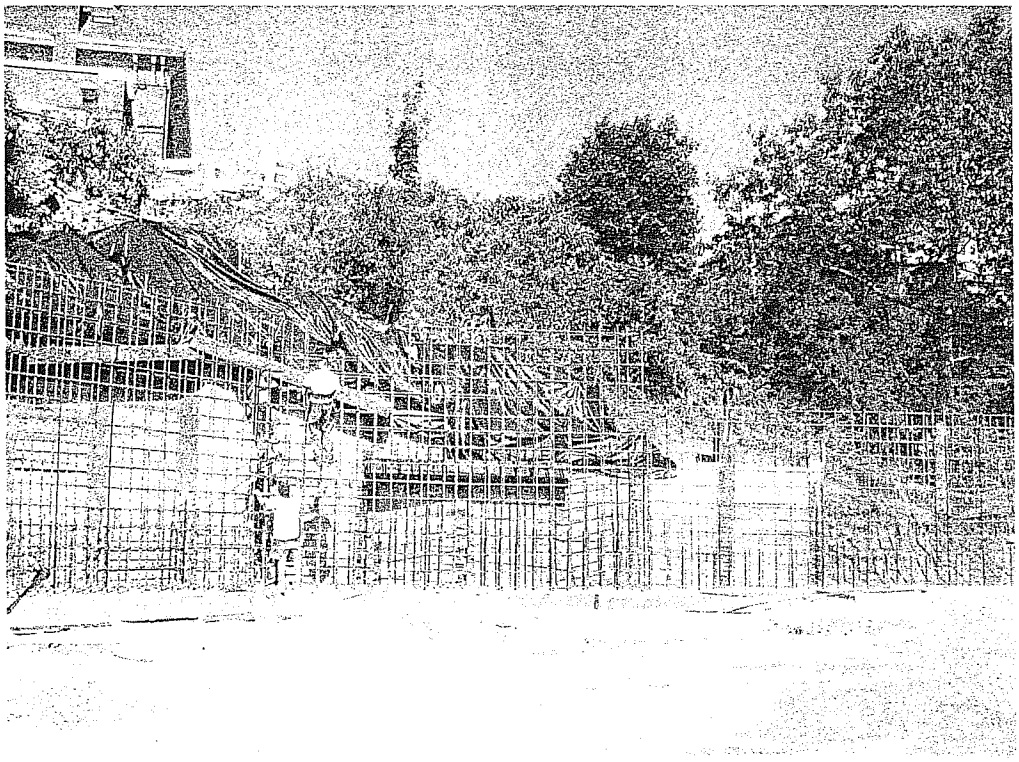

Photo # 4 - Installation of wall reinforcing.

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: September 13, 2007
Time: 12:30 PM

Weather: Partly Sunny
Temperature: 68 deg. F.
Contractor: Portland Builders
Site contact: Bill Cuddy

Project Items to be Observed:

1. Updated Structural Drawings in Jobsite Trailer
2. Concrete Wall Opening at Stair B

Field Observations / Project Status:

1. A complete set of stamped updated Structural Drawings was issued in two phases on Wednesday, September 12. The owner requested that I visit the project site to be sure that the correct drawings were delivered to the jobsite.
2. The first phase of the issued Structural Drawings contained the note sheets (S1.0, S1.1, S1.2) and the foundation drawings (S2.0, S3.0, S3.1, S3.2, S3.3) and copies of these drawings were observed in Portland Builder's trailer at the jobsite at the time of the site visit.
3. The second phase of updated stamped structural drawings contained the Framing Plans (S4.0 to S4.3) and the Framing Detail sheets (S5.0 – S5.6). These drawings had not yet been delivered to the jobsite at the time the site visit was performed.
4. Bill said that the foundation wall at Gridline "N" had been placed the previous day (Wednesday, September 12).
5. While at the project site I measured 7'-0" clear opening between the foundation walls at Gridline N/6 to N/5.6 at the location of Stair B (See attached "As-Built Foundation Part. Plan" hand sketch). This is less than what is needed to accommodate the stair indicated on the Architectural Drawings.
6. I asked Bill if he was aware of the 7'-10" opening specified on the Architectural Drawings. He said he was aware of it and that he and the concrete foreman (Randy) discussed it at length. I asked why did he pour the wall if he knew there was a conflict between the structural and architectural drawings. He said that he has been told to keep the project schedule and therefore he could not delay the pour.
7. Afterward, I sent a copy of the attached "As-Built Foundation Part. Plan" sketch to Ryan Senatore at TFH who had indicated he may be able to find a solution. Fortunately, Ryan did find a solution and a copy of his recommendation is attached.
8. The procedures for resolving questions in the field with regard to the project schedule will be reviewed by the owner, the contractor and the design team with the goal being to minimize future potential problems in the field as much as possible.

Items Needing Correction:

1. The contractor must obtain his own dimensions of the existing concrete at stair B and verify that the solution recommended by TFH at stair B will be compatible with the current design documents or if any further adjustments are necessary. This verification shall be provided to the owner and the architect as soon as possible.

Corrective action taken:

General:

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Richard Lo, TFH Architects
Bill Cuddy, Portland Builders
Roger Domingo, Matt Lilley, SW Cole

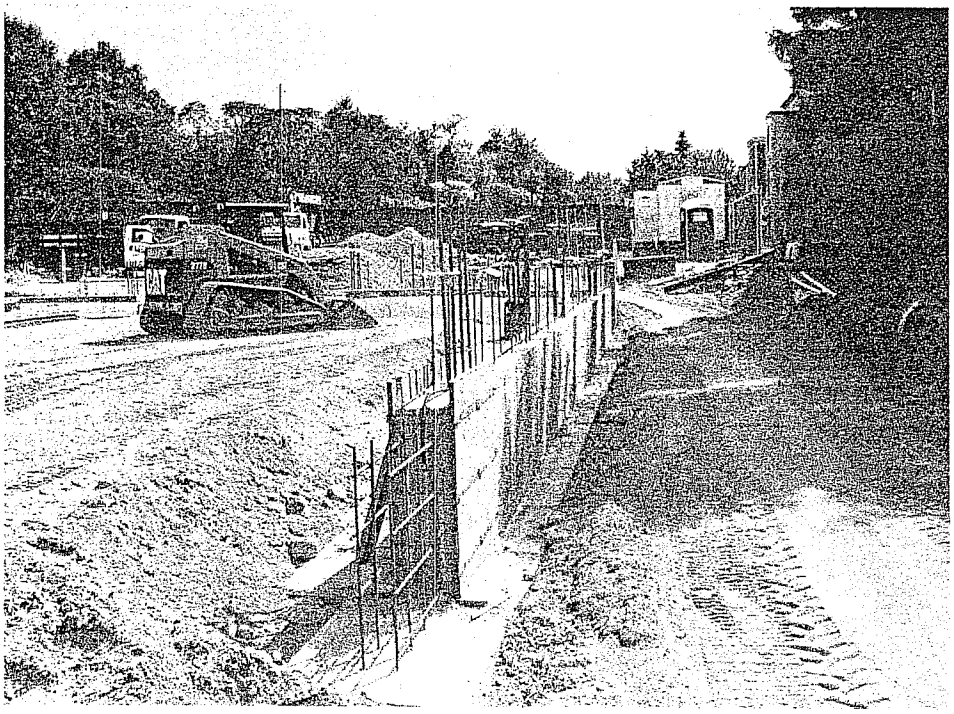

Photo 1 - Foundation Wall at Grid G

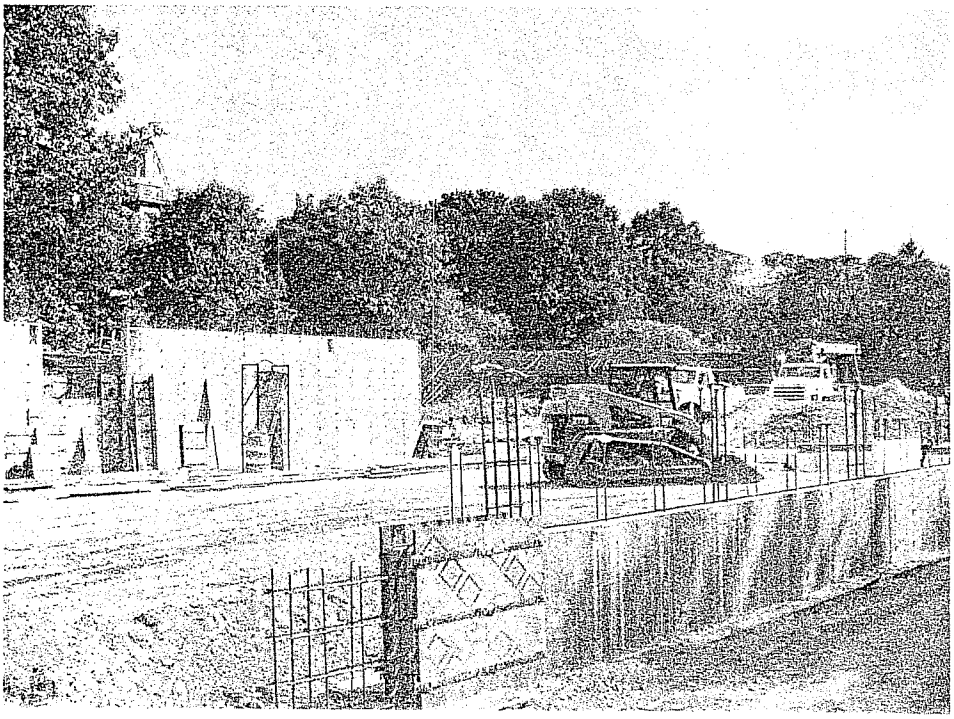

Photo 2 - Foundation Wall at Grid N – South End

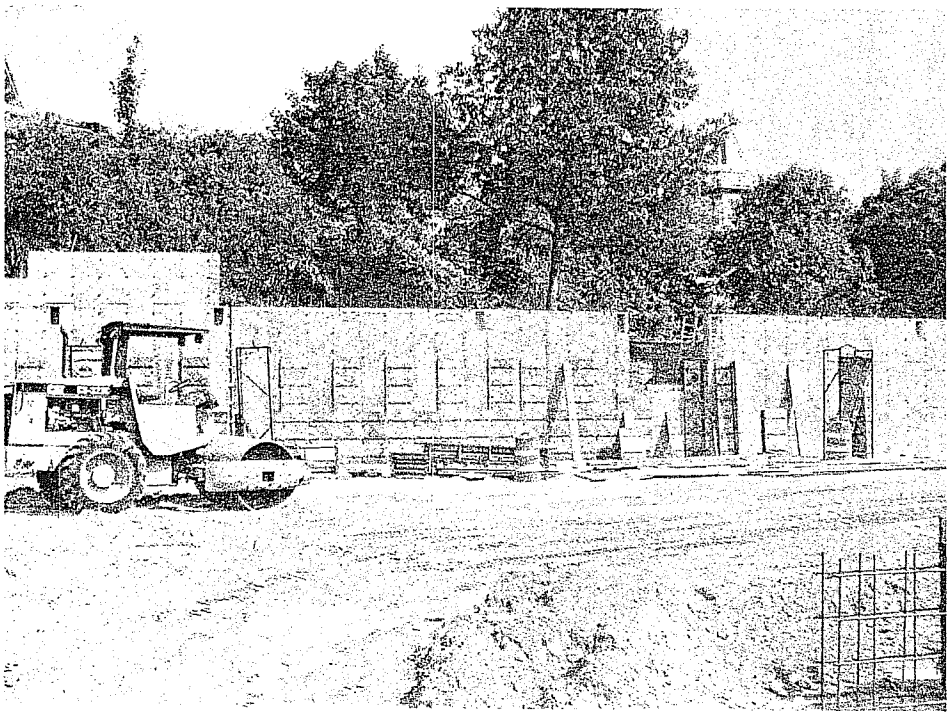

Photo 3 - Foundation Wall at Grid N – Note Opening for Stair B

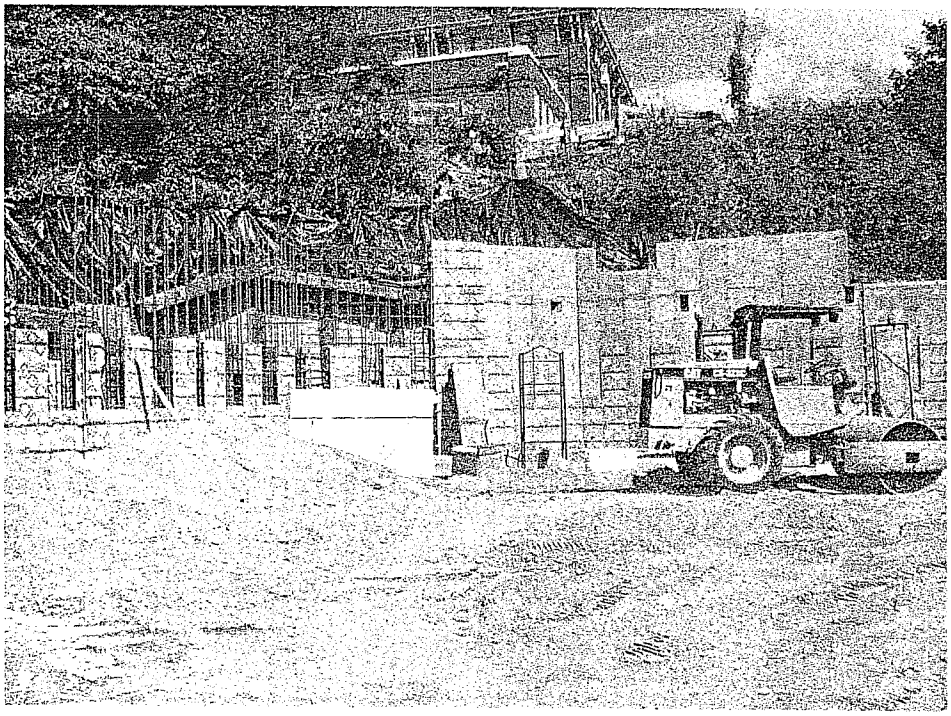

Photo 4 Foundation Wall at Grid N/1 Corner

pricestructural

From: Ryan Senatore [RJS@TFHArchitects.com]
Sent: Thursday, September 13, 2007 3:32 PM
To: pricestructural
Subject: RE: 9-13-07 site visit - Stair B Foundation wall

David,

See the attached pdf, the stair works fine based on your concrete dimensions, the 3'-8" arc is clear, the builder will just have to put an inch of insulation on the concrete and a layer of sheetrock and the stair will be fine.

Thanks for your sketch as well, let's hope they ask us if there are any questions next time.

Ryan Senatore LEED-AP
TFH Architects
100 Commercial St
Portland, Maine 04101
t: 207.775.6141
f. 207.773.0194

From: pricestructural [mailto:pricestructural@maine.rr.com]
Sent: Thursday, September 13, 2007 3:17 PM
To: Ryan Senatore
Subject: 9-13-07 site visit - Stair B Foundation wall

Ryan – the attached sketch appears to be what was constructed based on my site visit today. Your recommendations would be appreciated.

I will send some site photos as soon as they are ready.

Thanks,
David

David A. Price, PE
President
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(Tel) 207-846-0099
(Fax) 207-846-1633

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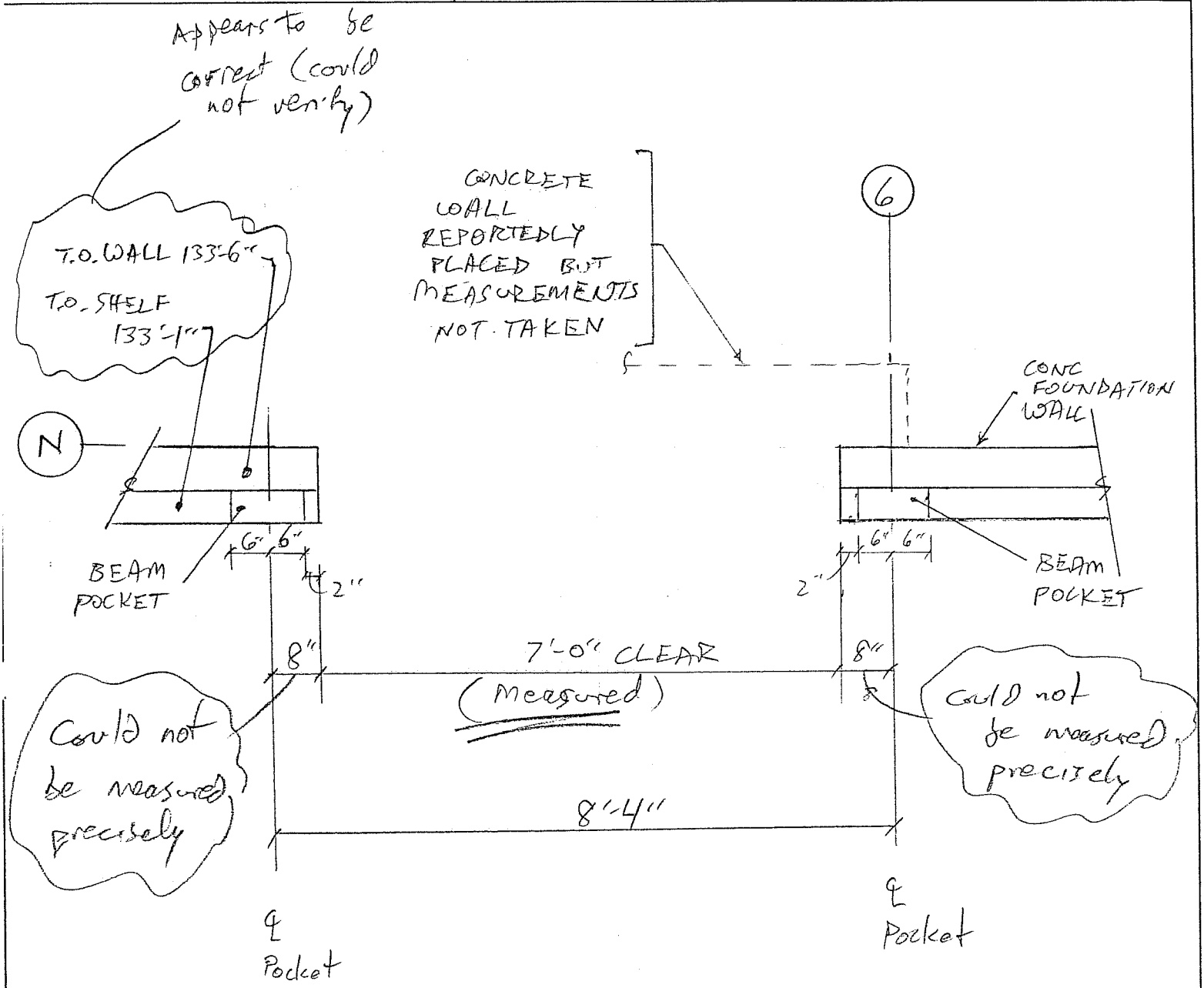
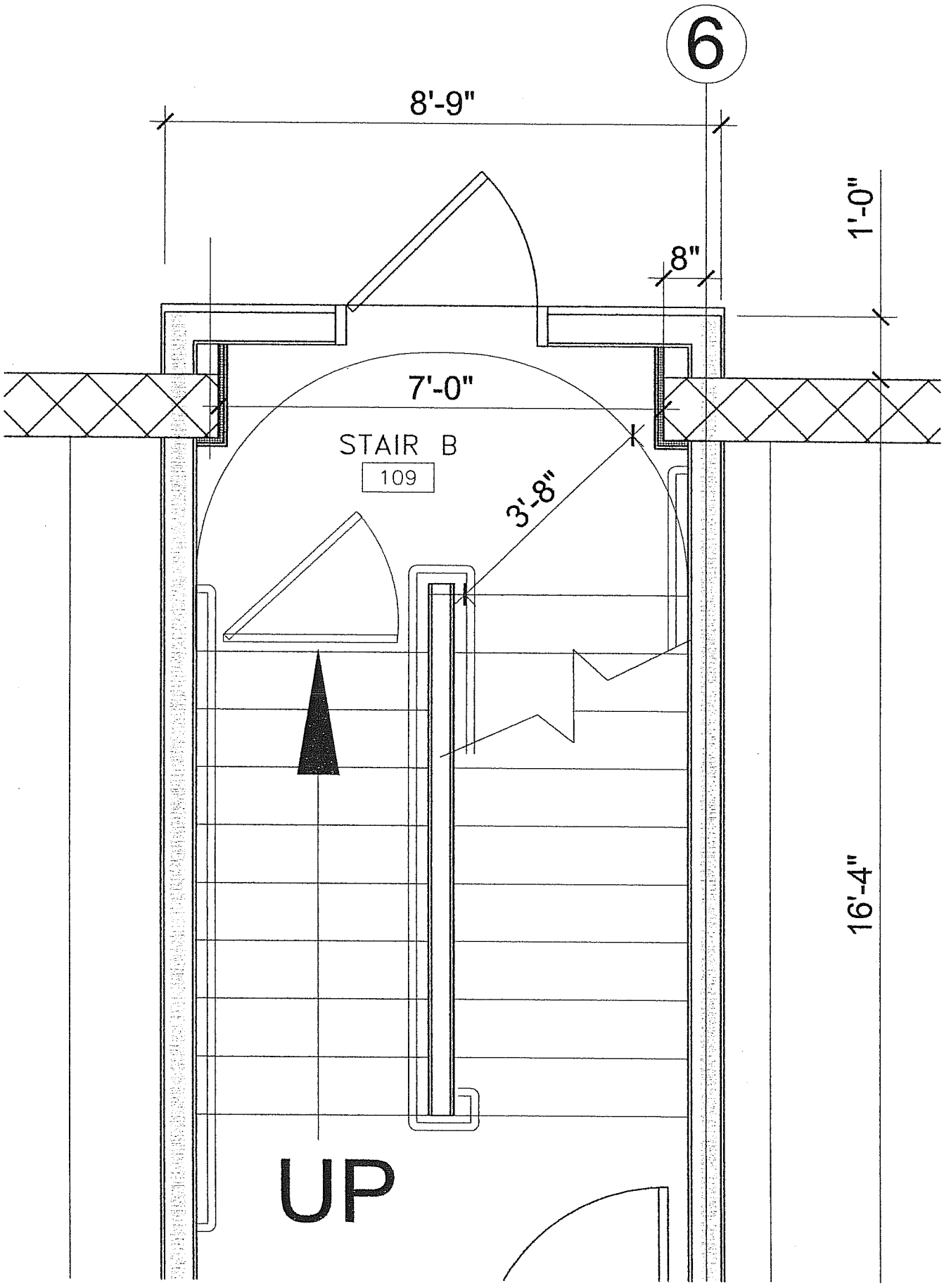
Fax: 207-846-1633

Project:	Sheridan		
Subject:		Sheet:	of
Date:	9/13/07	Job #:	112-07
Designed by:	DAP	Checked by:	



AS-BUILT FOUNDATION PART. PLAN

This diagram depicts the 7'-0" clear dimension observed in the As-Built concrete foundation wall during the 9/13/07 site visit.


6
8'-9"
1'-0"
8"
7'-0"
STAIR B
109
3'-8"
16'-4"
UP

Price Structural Engineers, Inc.
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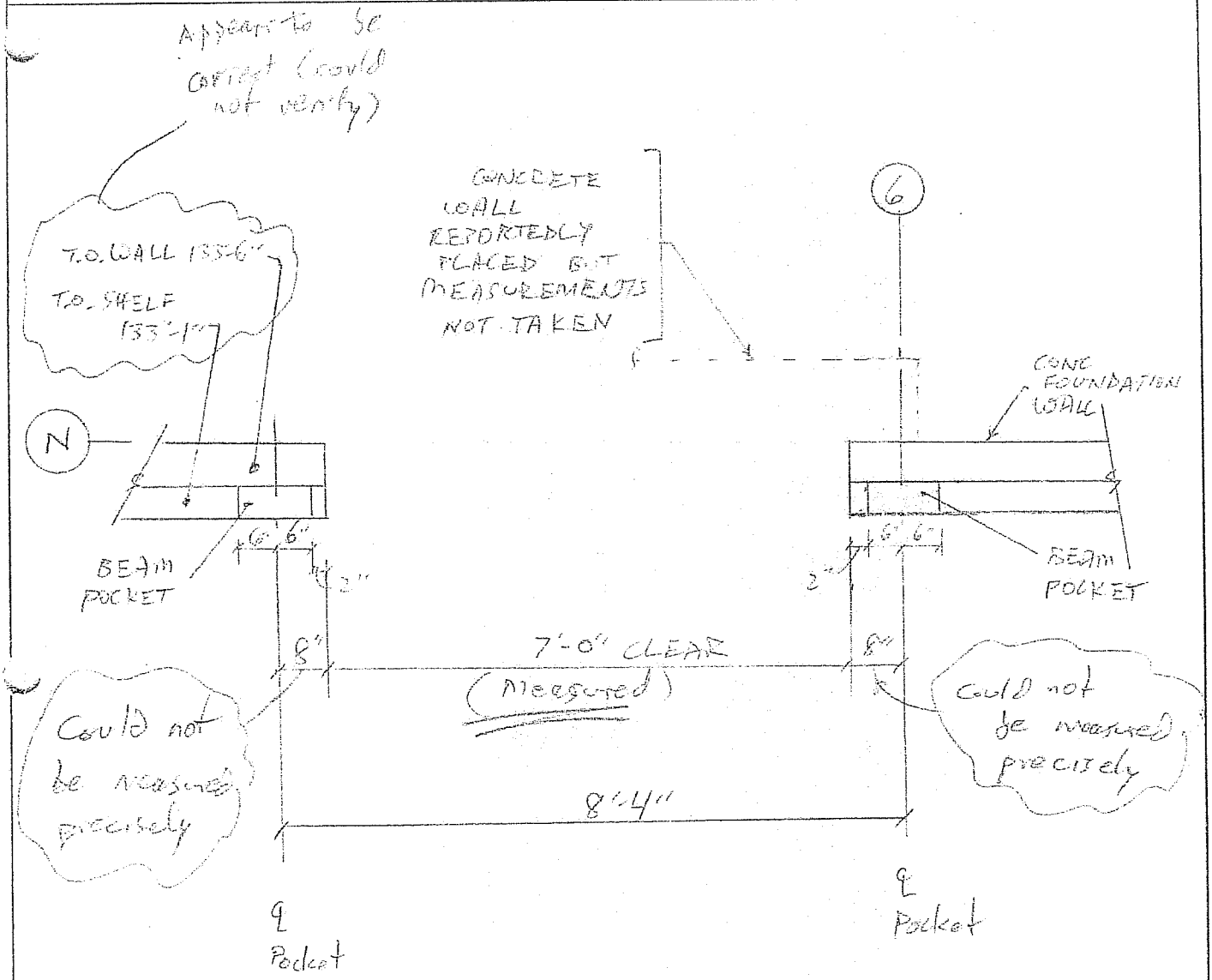
North Yarmouth, ME 04097
Tel: 207-846-0099
Fax: 207-846-1633

Project:	
Subject:	Sheet: of
Date: 9/13/07	Job #: 112-07
Designed by: DAP	Checked by:



AS-BUILT FOUNDATION PART. PLAN

This diagram depicts the 7'-0" clear dimension observed in the As-built concrete foundation wall during the 9/13/07 site visit.

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: September 24, 2007
Time: 2:00 PM

Weather: Sunshine
Temperature: 70 deg. F.
Contractor: Portland Builders
Site contact: Bill Cuddy, Josh Cushman

Project Items to be Observed:
Concrete Footings and Foundation walls

Field Observations / Project Status:

1. Foundation walls and piers which will be used to support masonry shear and bearing walls at grid line 8 have been placed and are backfilled. Dowels at masonry piers appear to be correct.

2. Formwork and reinforcement at the elevator pit was being installed at the time of the site visit.

3. Formwork for spread footings and masonry wall footings along grid lines G and F.5 was being installed during the time of the site visit.

4. The tall concrete wall with bearing pockets supporting steel beams along grid line 1 appears to be complete.

5. The step footing required at grid line 1 for the frost wall supporting the residential wood framing at the Sheridan Street wing has not yet been started.

6. Bill Cuddy mentioned that masonry construction will start soon. S. W. Cole should be alerted as to when masonry construction will begin so that masonry testing can also begin.

7. At some locations, wood framing is in direct contact with structural steel. Bill Cuddy requested that at Detail C4/S5.4, which shows a heavily loaded wood column bearing on a steel beam, that 15 pound asphalt impregnated paper be placed at the interface between the wood and the steel to minimize squeaking. I said that would be fine.

8. Josh mentioned that the "Condenser Units" indicated on the architectural roof plan A1.4 have been deleted from the project. Therefore there will only be two mechanical units on the roof and these will weigh less than 550 pounds each (contractor provided cut sheets for these units).

9. Exact locations of the mechanical units on the roof is still being finalized. Final locations will be provided by the mechanical contractor based on dimensions extending from project grid lines.

10. Because condenser units are not a part of the project, the screen walls currently indicated on the roof will be reduced in size so that they are approximately 3 feet away from the proposed HVAC units at two locations.

11. Portland builders requested that I provide a dimension locating the short steel beam that will support the stair stringers at Stair B which I will do.

12. Bill Cuddy mentioned that Precision Welding, the structural steel fabricator, is in the process of preparing new structural steel shop drawings at the front entrance area where architectural revisions have been made.

Items Needing Correction:

Corrective action taken:

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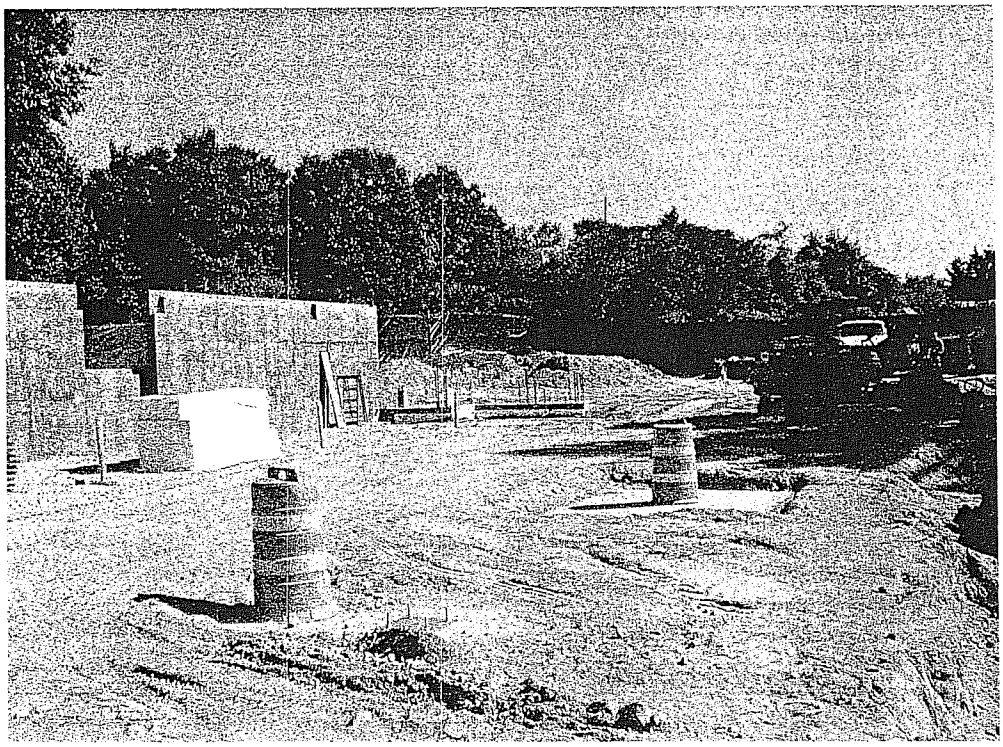

Photo 1 – View looking South – note leveling plate on spread footing

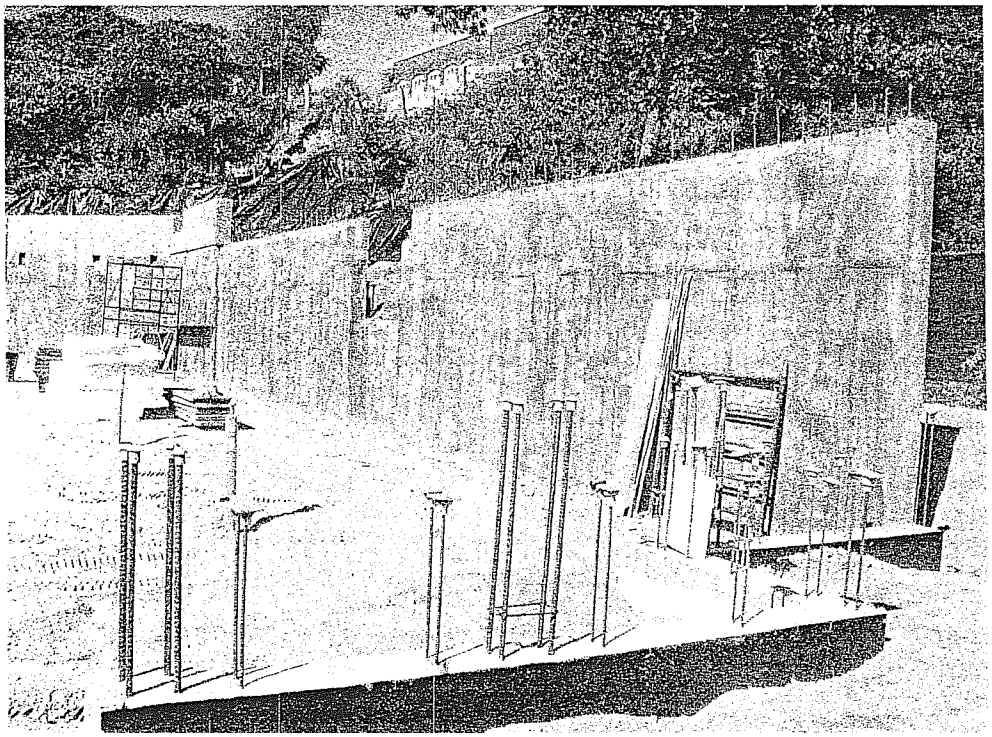

Photo 2 – Reinforcement at Grid 8 for Masonry Piers

Photo 3 – East side of Basement wall on Gird N

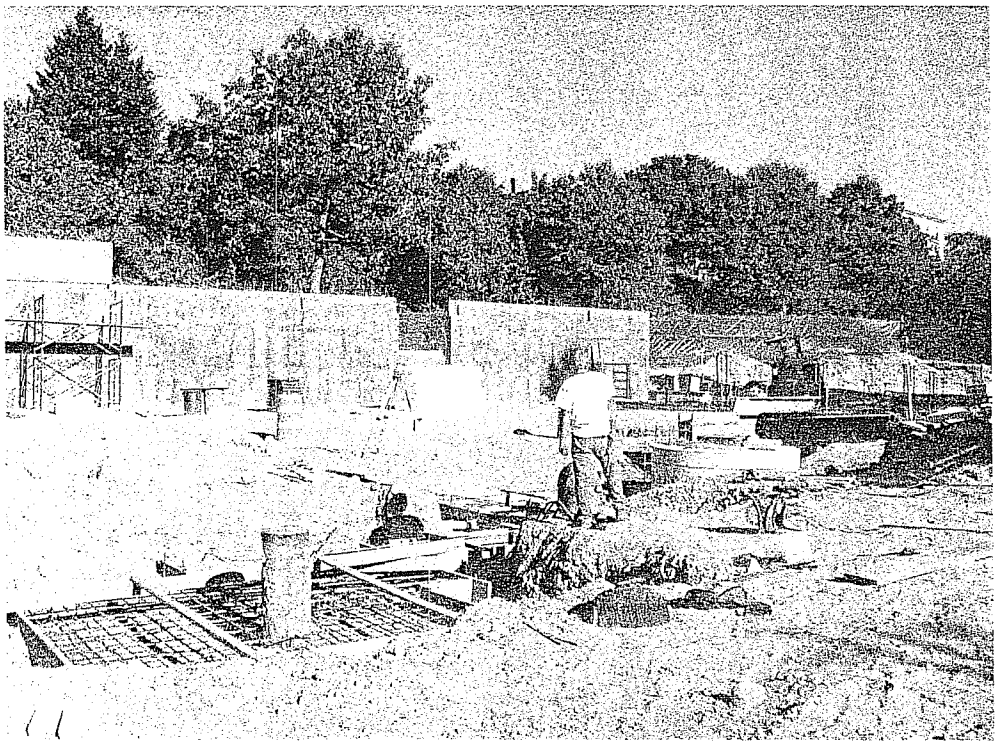

Photo 4 – Reinforcement at Elevator Pit

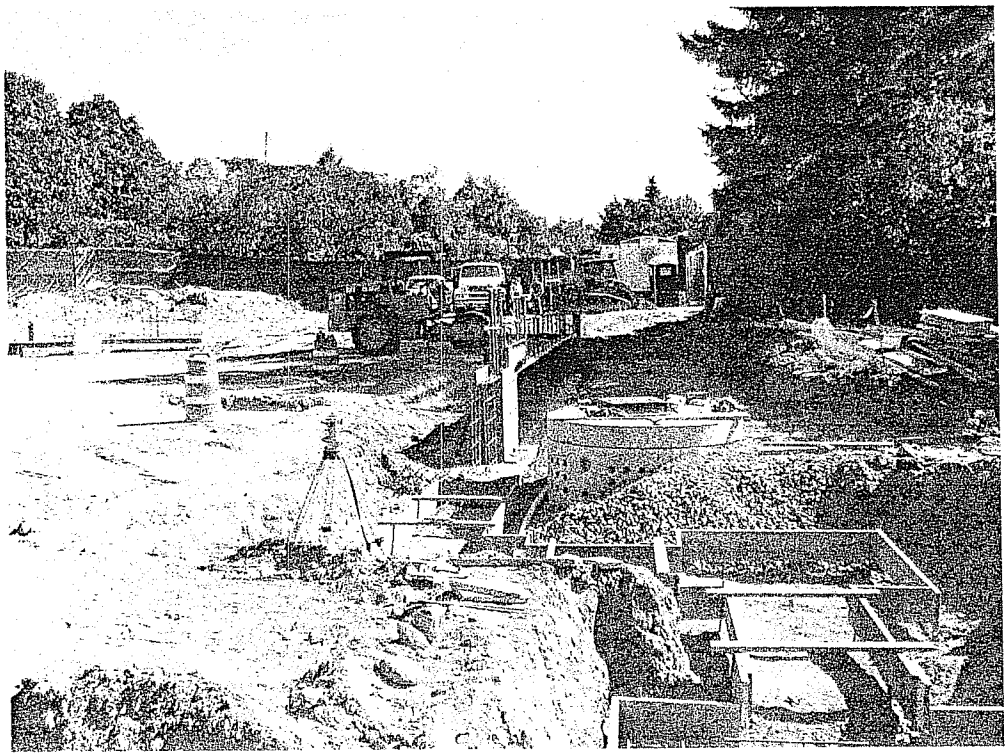

Photo 5 – Footings at grid G and F.5

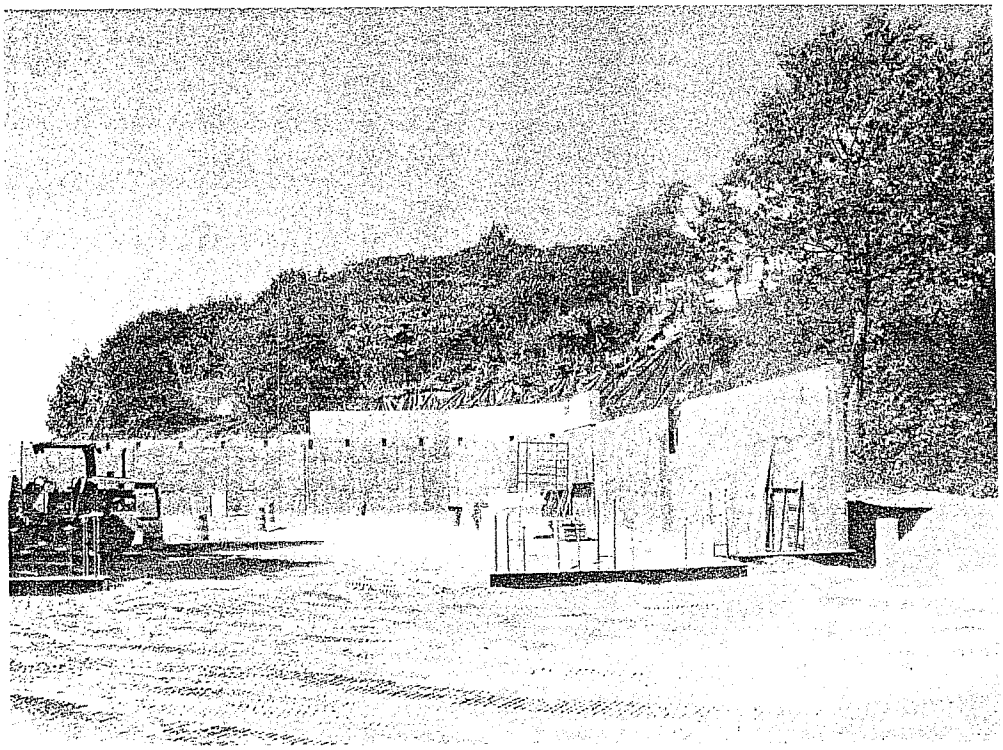

Photo 6 - View looking North

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: October 15, 2007
Time: 1:00 PM

Weather: Sunshine
Temperature: 70 deg. F.
Contractor: Portland Builders
Site contact: Bill Cuddy, Josh Cushman

Project Items to be Observed:
Concrete Footings and Foundation walls

Field Observations / Project Status:

1. Foundation walls which will be used to support wood framing at Sheridan entrance wing area was being placed at the time of the site visit. Dowels and other reinforcement at foundation walls appeared to be correct (Photo #1).

2. Masonry at the elevator shaft was being installed at the time of the site visit.

3. Bill Cuddy requested that sonotube encasements that go around structural steel columns within the garage area bear directly on spread footings. I said this is acceptable and we discussed isolation joint and sealant requirements at this area.

4. Bill mentioned that he would prefer to have the sewer pipes located at the West face of the garage interior columns at grid H. This information was forwarded to the architect (photo #2 and# 3).

5. Bill mentioned that masonry construction at exterior walls will be starting soon so that structural steel installation can begin. Structural steel bearing plates for the steel were observed on site and they contained welded shear studs (photo #4).

6. A large pipe was observed at gridline N that extended directly into the footing. This does not agree with note B15 on drawing S1.0. Fortunately, the exterior grade is lower at this location and therefore the stresses on the footing are reduced at this area compared to other areas. Also, the foundation wall is fully reinforced and should be able to span over the footing at this area (photo #5 and# 6).

Items Needing Correction:

Corrective action taken:

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North Yarmouth, ME 04097

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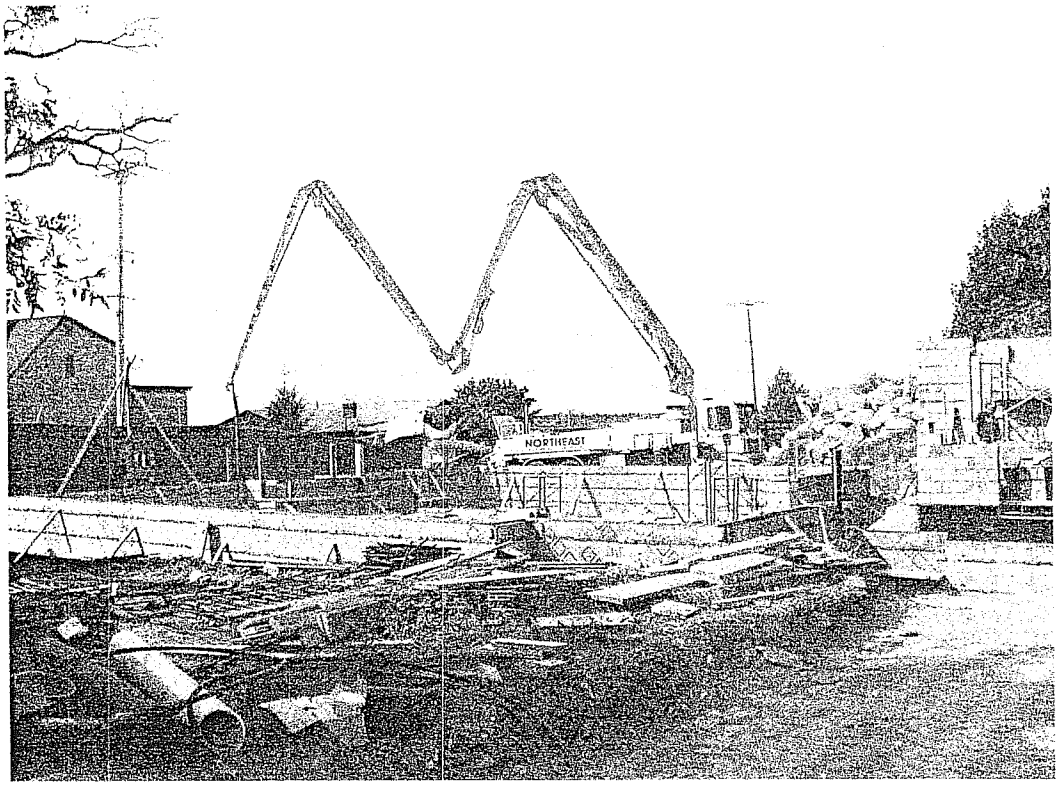

Photo 1 – Foundation walls being placed at entrance wing.

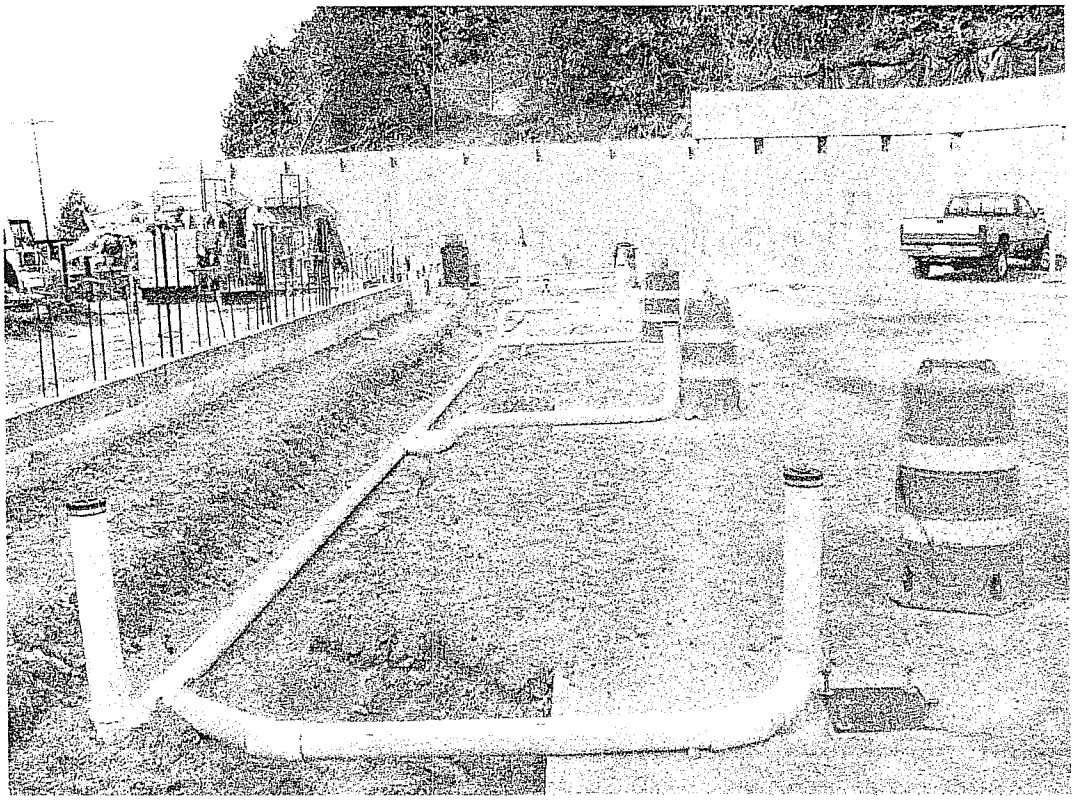

Photo 2 – Sewer pipes that will be adjacent to interior garage columns at grid H

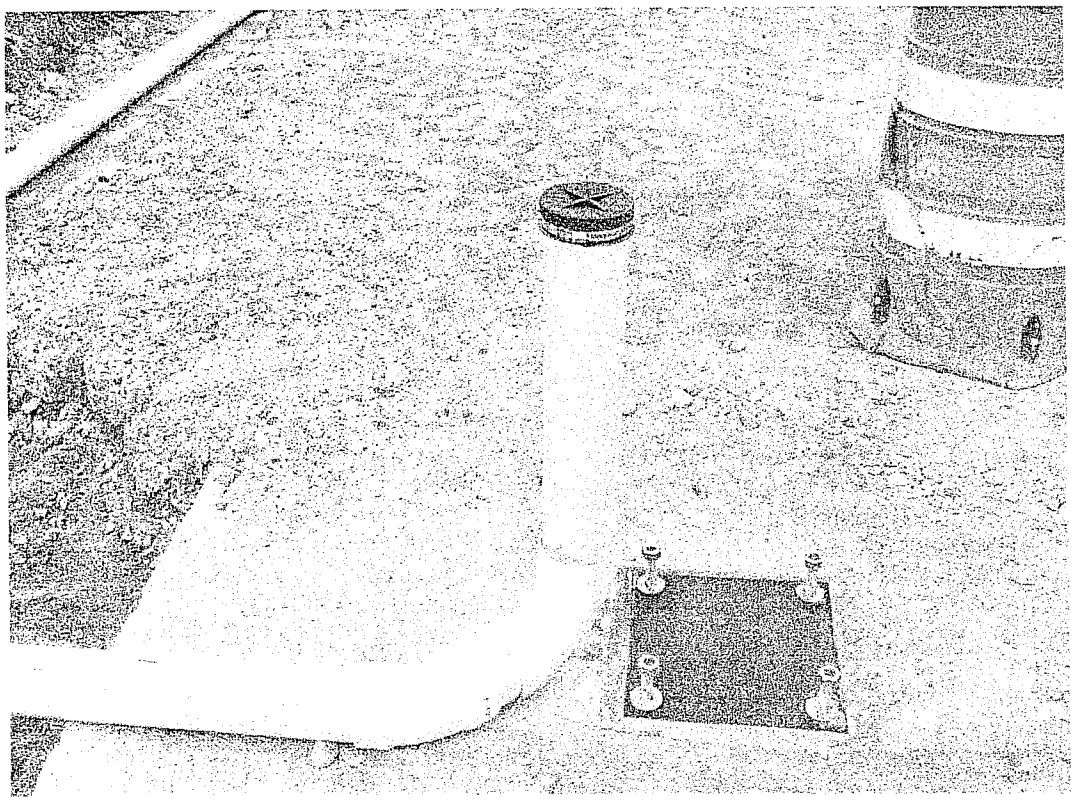

Photo 3 – Sewer pipe adjacent to leveling plate for structural steel column

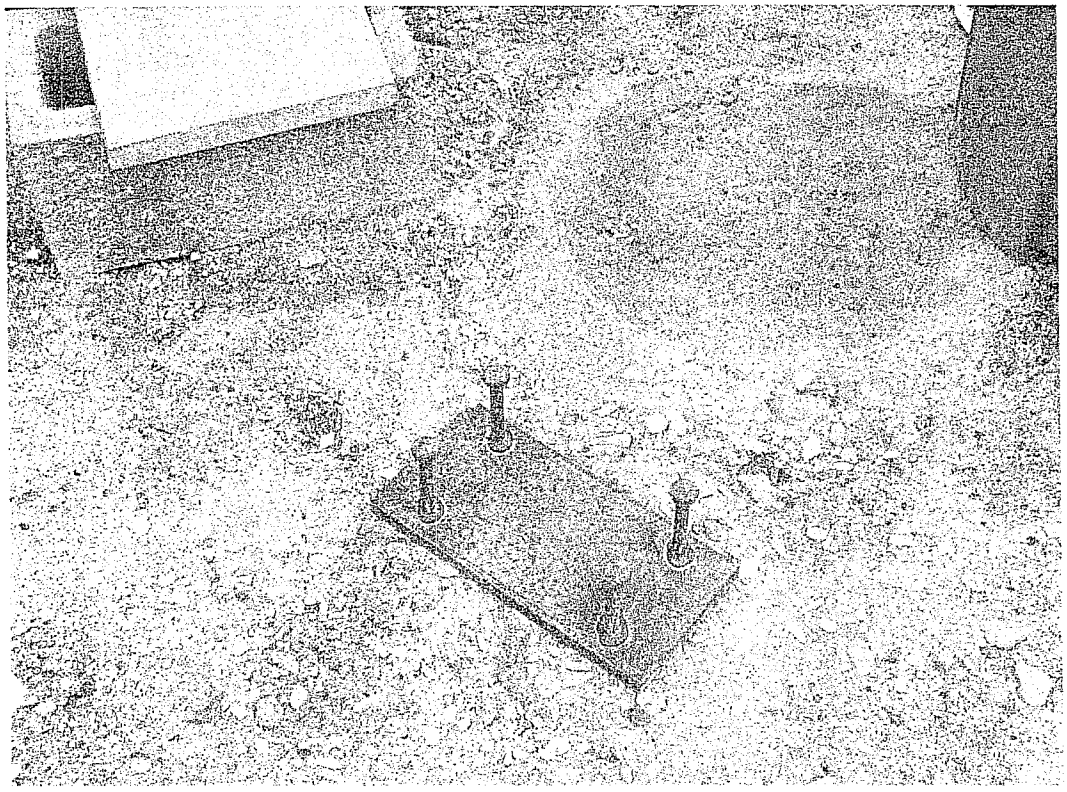

Photo 4 – Structural bearing plate with welded studs to be used at steel beams bearing on masonry.

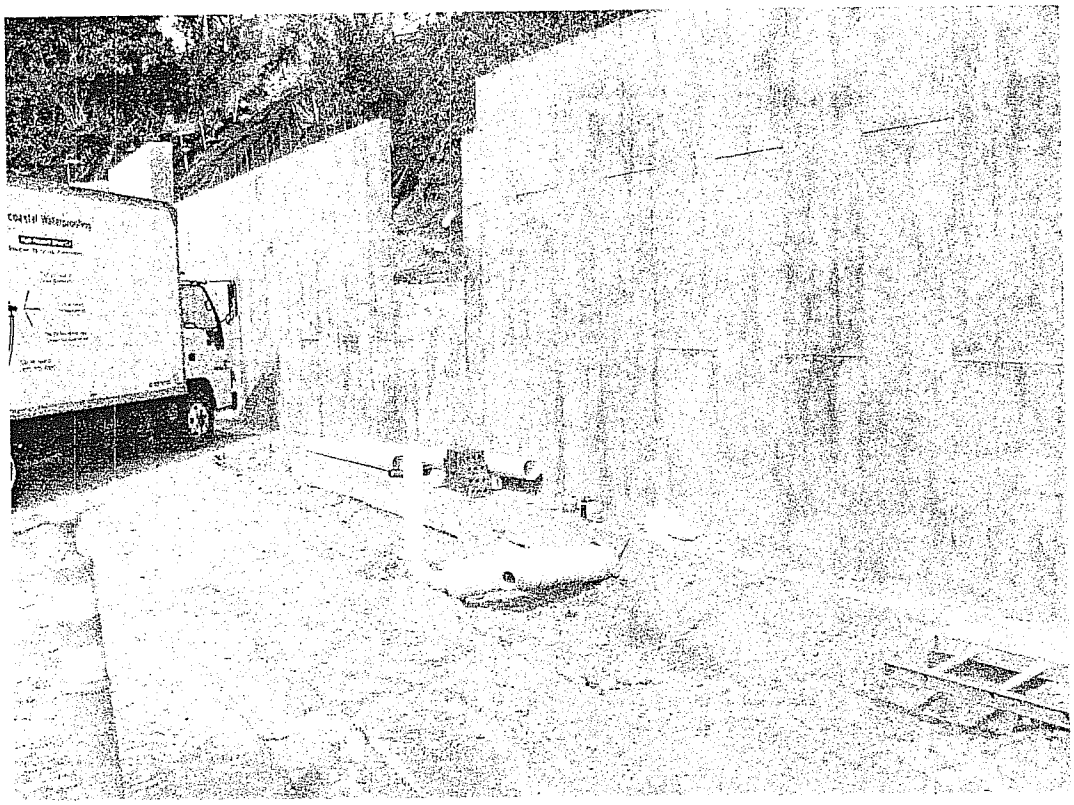

Photo 5 – Large discharge pipe extending through footing at grade N. Footing should have been stepped at this location (Note B15/ S1.0).

Photo 6 – It appears large pipe does not extend completely through footing

11/2/07

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: ~~October~~ 15, 2007
Time: 10:00 AM

Weather: Sunshine
Temperature: 60 deg. F.
Contractor: Portland Builders
Site contact: Pat Cushman,. Greg Shinberg

Project Items to be Observed:
Entrance Foundation walls, Masonry, Structural Steel

Field Observations / Project Status:

1. Foundation walls at the Sheridan entrance wing (grid A) are in the process of being installed. Leveling plates were installed on the concrete piers which will support structural steel. Perimeter walls, with bond outs for brick shelf and interior slab support, have also been installed.

2. There appears to be two concrete piers that were missing at the front entrance area. These are both located on gridline AA and are indicated as "P2 (SIM)" on plan view Detail H6/S3.3. These piers do not support structural steel columns, however , they do support masonry columns.

3. The vertical stem wall specified on structural section H.1/S3.1 is to be 5.5" wide. The width of this stem wall was field measured to be 6 inches wide at the installed concrete foundation walls. The concern is that the wall itself may not be in the proper location since the outside face of the vertical stem wall was intended to line up with the outside face of the wall stud above. Two possible scenarios exist and it is important that the contractor determine which is the case:
    - The outside face of the vertical stem wall may be the wrong place. The distance from the outside face of the vertical stem wall at grid line 1 to the stem wall on the other side of the building is specified to be 49'-10" as indicated on drawing S2.0. This needs to be field checked and if it is not correct then there is a concern that the stud walls will not be positioned as specified on the architectural drawings.
    - The inside face of the vertical stem wall may be in the wrong place. If this is the case then the concrete extends into the building interior and strapping will need to be added to all the wall studs so that the sheet rock can cover the concrete face.

4. The steel erector is on site placing structural steel beams over the garage. The foreman indicated they were with American Arial.

5. It appears that most of the masonry has been completed. Some of the masonry near the elevator tower has not yet been completed. It also appeared that there was a repair made to the elevator tower at a beam pocket that was previously missing and that this has now been installed.

6. It was noted that "TC bolts" were not used as specified. Pat Cushman said that the steel erector will replace the existing bolts with TC bolts.

7. No paint is on top of the steel beams. This is correct since the shear studs and deck need to be welded to the unpainted surface.

8. Two masonry piers, located near grid 8/L and grid 8/J, were installed with the top of pier at an elevation that is approximately 10 inches higher than it should have been. The W14 beam that bears on this pier Is therefore too high. The existing piers will need to be lowered so that the W14 beam is at the proper elevation.

Items Needing Correction:

1. The two concrete piers that are located on gridline AA and are indicated as "P2 (SIM)" on plan view Detail H6/S3.3 need to be installed. Vertical reinforcement should be the same as indicated for Pier Detail P2. Holes for the vertical pier reinforcement will need to be drilled into the footing using "AC 100 plus" epoxy anchoring cement (by Powers Fasteners) or an approved alternate epoxy. Depth of embedment should not be less than 10 inches and installation, including hole diameter, must be in accordance with manufacturer's directions.

2. The 6 inch wide stem wall is not positioned correctly as indicated in item number three above. The contractor needs to perform the necessary field measurements and make a recommendation as to how this concern will be resolved.

3. Pat Cushman and I discussed the two masonry piers that were installed too high (near grid 8/L and grid 8/J). Pat said that he would send in an RFI describing his recommendation as to how to lower the piers so the W14 beam is at the proper elevation.

Corrective action taken:

General:

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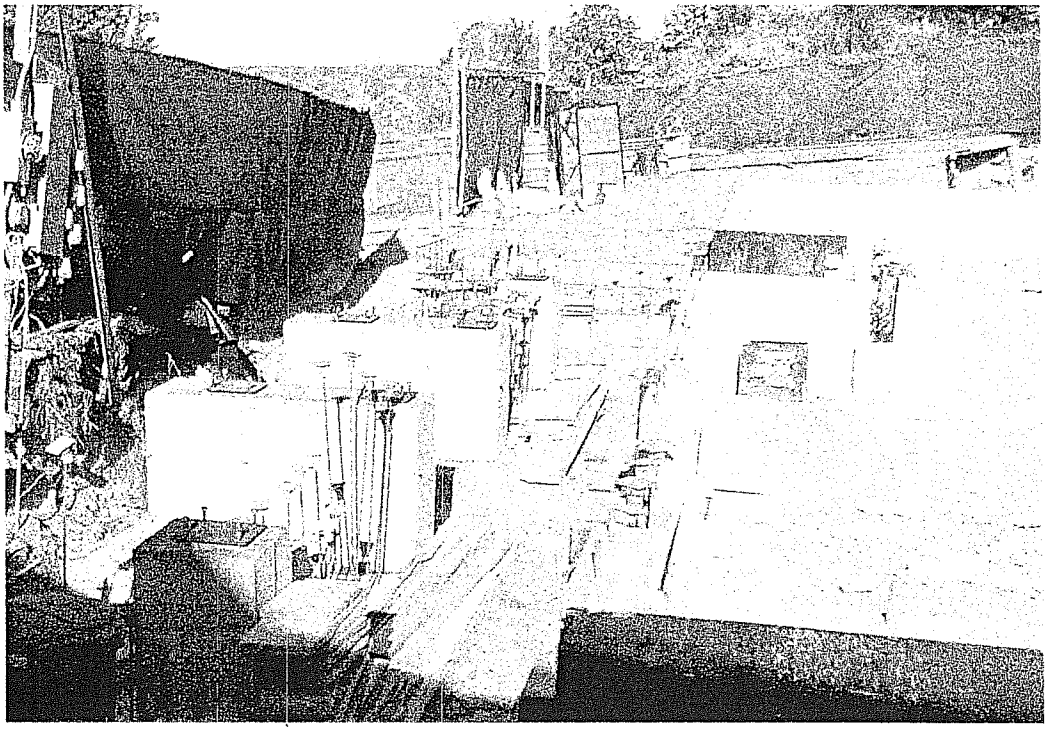

Photo 1 – Front entrance piers near grid AA

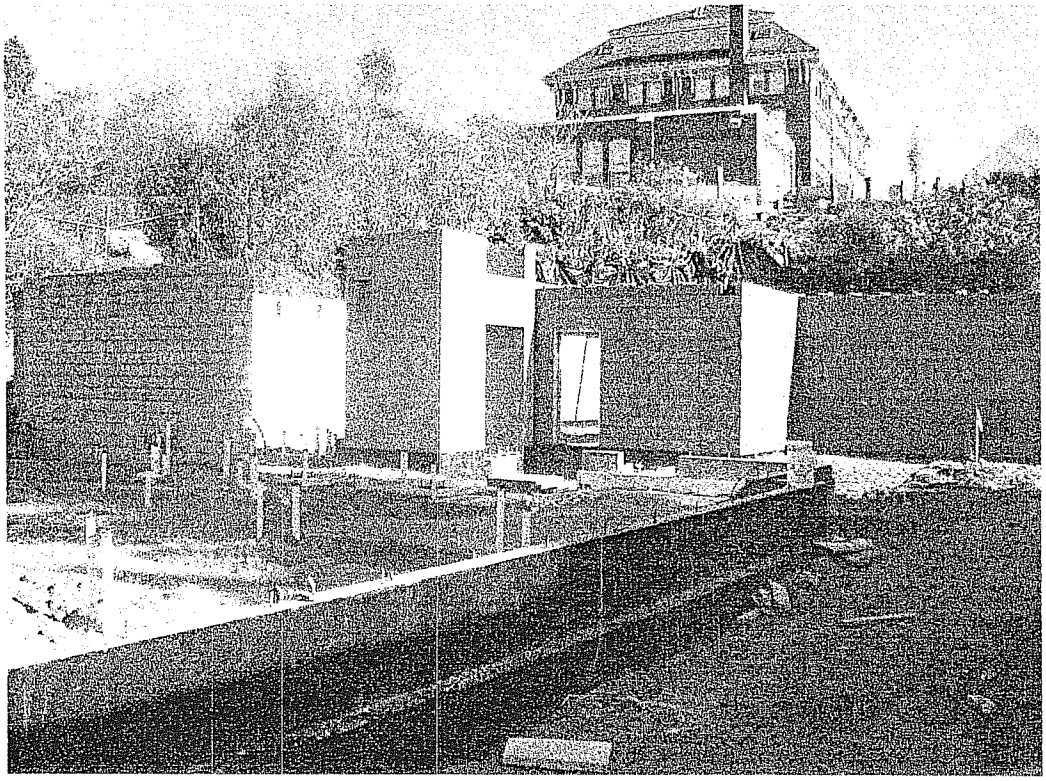

Photo 2 – Six-inch wide stem wall with anchor bolts shown in foreground.

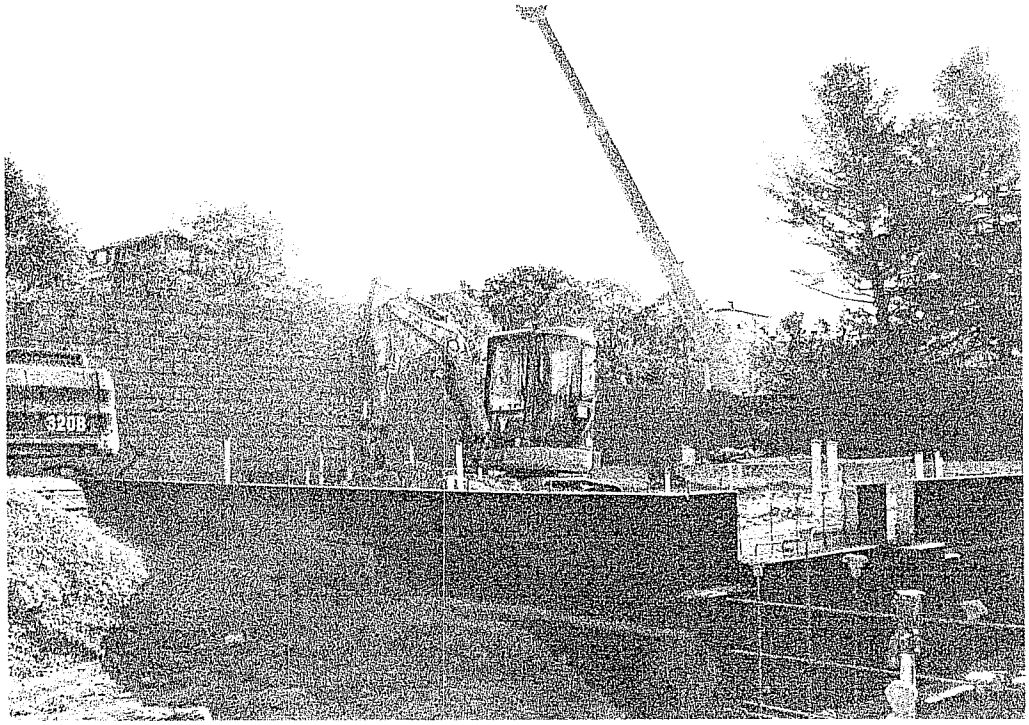

Photo 3 – Crane for steel erection shown in background

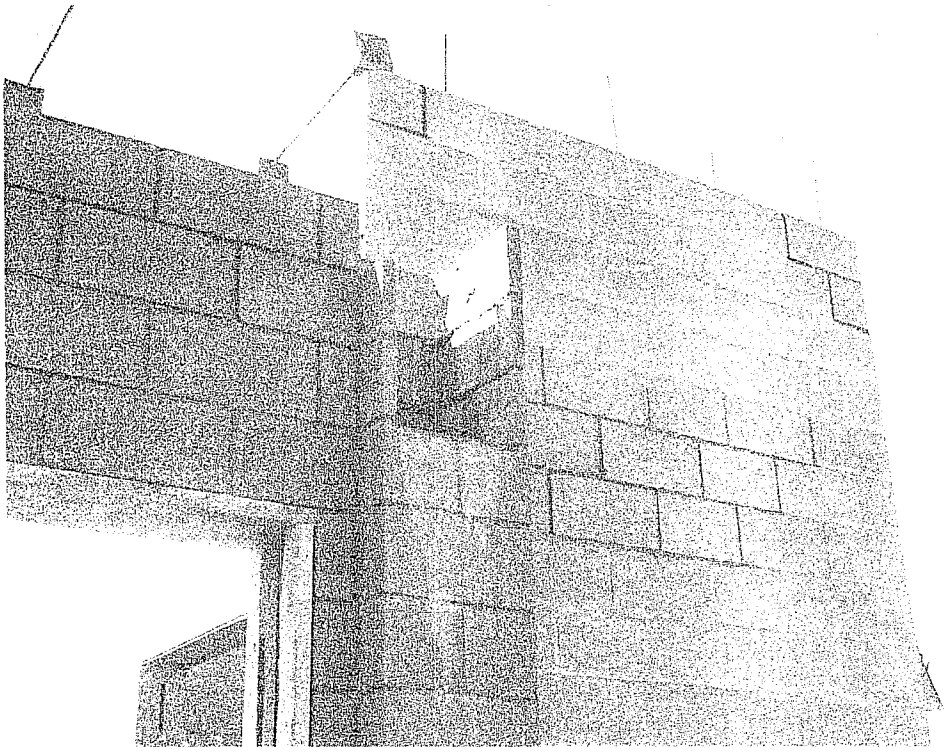

Photo 4 – Beam pocket in masonry near elevator

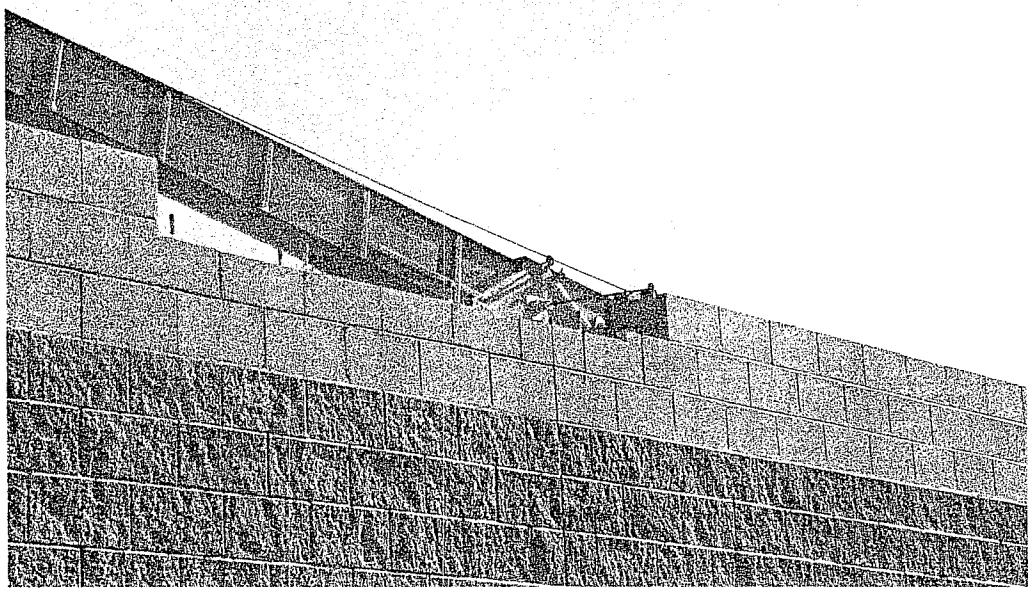

Photo 5 – Bond out in masonry for porch at grid one

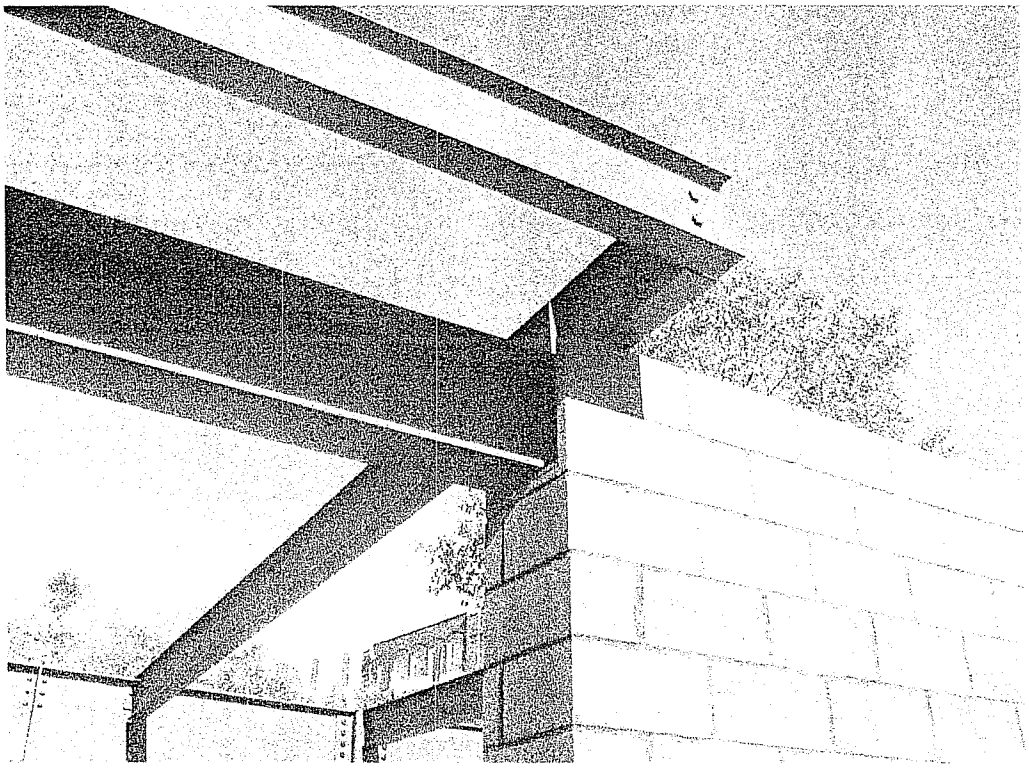

Photo 6 – Pier at W14 beam at grid 8to is too high

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: November 13, 2007
Time: 10:00 AM

Weather: Sunshine
Temperature: 45 deg. F.
Contractor: Portland Builders
Site contact: Pat Cushman, B.Cuddy, G. Shinberg

Project Items to be Observed:
Masonry, Structural Steel

Field Observations / Project Status:

1. The erection of structural steel is nearing completion with the exception of items listed below.
2. Metal deck or perimeter angle or shear studs on beams not yet placed.

Items Needing Correction:

1. Structural steel at the area west of grid AA is 3 inches too high. Structural shop drawings and connection calculations must be submitted for review and approval at the revised entrance area, which includes the area at grid A, AA and west of grid AA.
2. A beam near grid D/1.8 has been fabricated incorrectly and needs to be modified so the pieces will fit together properly.
3. The two concrete piers that are located on gridline AA and are indicated as "P2 (SIM)" on plan view Detail H6/S3.3 still need to be installed. Vertical reinforcement should be the same as indicated for Pier Detail P2. Holes for the vertical pier reinforcement will need to be drilled into the footing using "AC 100 plus" epoxy anchoring cement (by Powers Fasteners) or an approved alternate epoxy. Depth of embedment should not be less than 10 inches and installation, including hole diameter, must be in accordance with manufacturer's directions.

Corrective action taken:

1. Masonry entrance piers have been repaired.

General:
The purpose of this site visit is to observe the project and generally become familiar with the progress and quality of the Contractor's work and to assess whether the work is proceeding in general conformance with the construction documents regarding the specific items listed within this report. The client has not retained Price Structural Engineers Inc. to make detailed inspections of every structural component, perform structural design or to provide exhaustive or continuous project review.

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Report prepared by: David A. Price, P.E.
Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097

Distribution: Greg Shinberg, Shinberg Consulting LLC
Richard Lo, TFH Architects
Bill Cuddy, Portland Builders
Roger Domingo, Matt Lilley, SW Cole

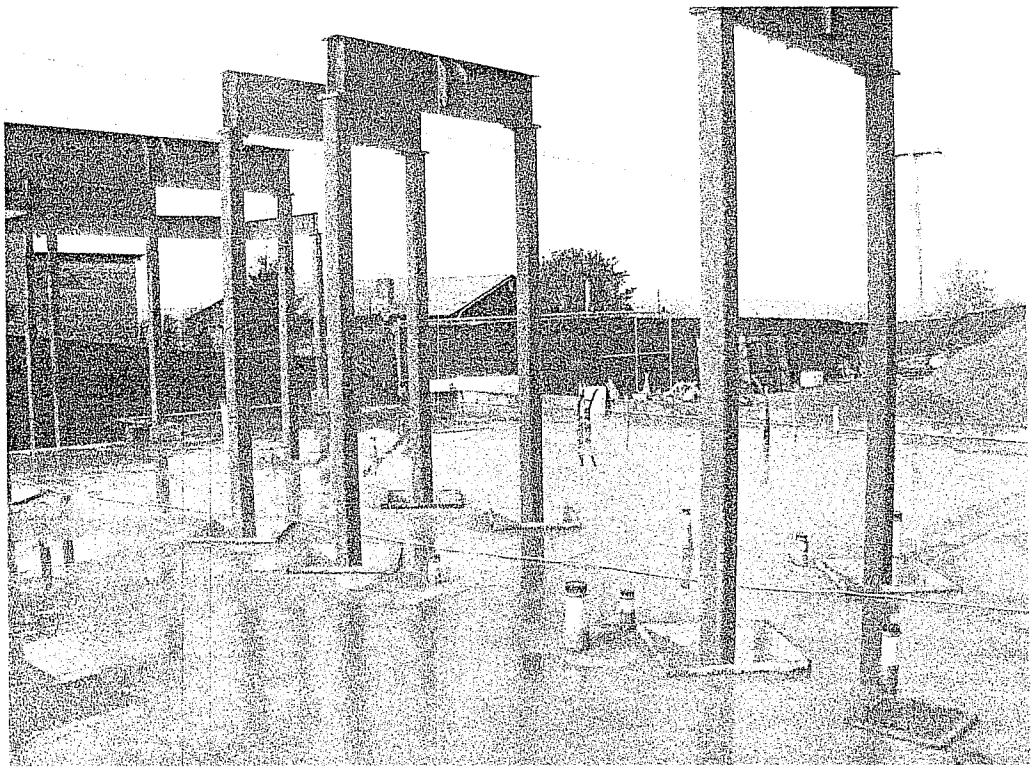

Photo 1 – Structural steel above corridor at residential wing.

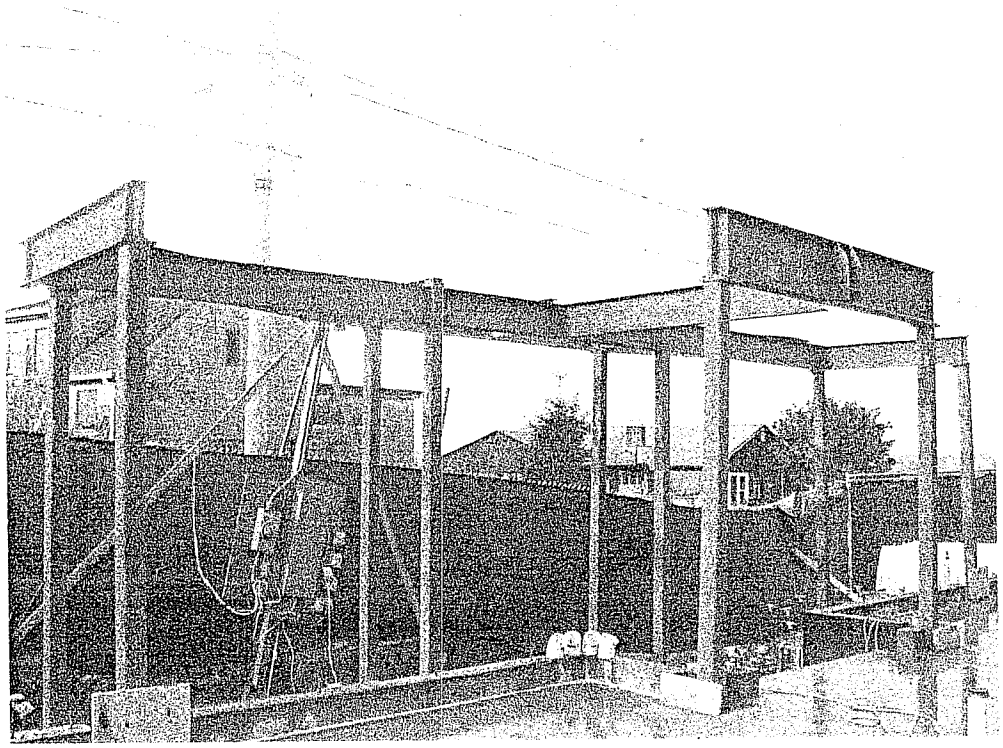

Photo 2 – Structural steel at Grid A and AA. Shop drawings and stamped calculations for this area have not yet been provided.

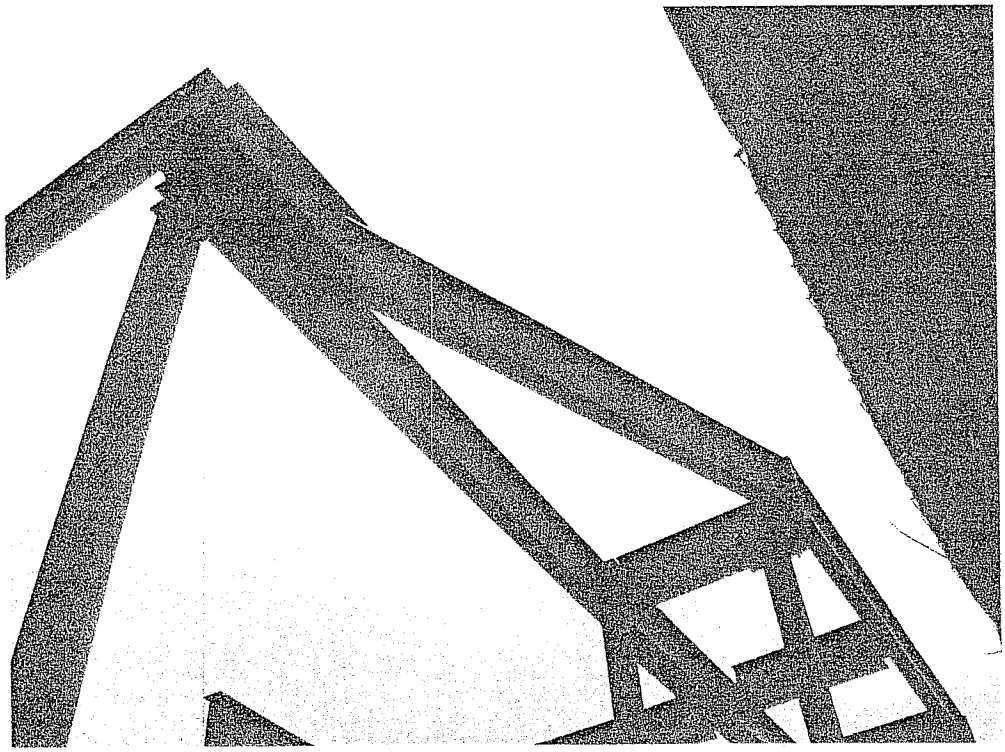

Photo 3 – Steel at area west of grid AA is 3" too high.

pricestructural

From: pricestructural [pricestructural@maine.rr.com]
Sent: Saturday, November 24, 2007 9:07 AM
To: 'William Cuddy'; 'Pat Cushman'; 'Dorian Sweeney'
Cc: 'Greg Shinberg'; 'Richard Lo'; 'rdomingo@swcole.com'
Subject: Sheridan - 11-23-07 site visit report

1/7

Gentlemen – please review the attached report prior to placing the elevated slab on Monday. Please give me a call at 846-0099 if there are any comments or questions.

Regards,
David

David A. Price, PE
President
Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097
(Tel) 207-846-0099
(Fax) 207-846-1633

To: Pat Cushman / 772-8182
11/26/07 - Fax
From: D. Price
7 pages

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: November 23, 2007
Time: 10:30 AM

Weather: Sunshine
Temperature: 40 deg. F.
Contractor: Portland Builders
Site contact: Pat Cushman, B.Cuddy, G. Shinberg

Project Items to be Observed:

1. Structural Steel
2. Preparations for placement of elevated composite concrete slab

Field Observations / Project Status:

1. Metal deck is installed. Metal deck submittal has not been approved yet. One copy of deck drawing provided during site visit. Deck indicated as: 2" Lok Floor, 20 gauge.
2. Bill mentioned that he is considering adding some shoring when placing the concrete elevated slab. Please note the following cautions if this is done:
    - The deck is designed as "triple span" which relies on negative bending moment at each of the two interior supports. If the deck itself is shored at all then all three spans should be shored since otherwise the capacity of the deck may actually be weakened down to a single span condition. This is due to the reduction of negative bending moment at the interior supports.
    - Beware of isolated posts with the end of the post in direct contact below the deck which can deform the deck profile (resulting in a loss of strength) due to the large concentrated force at a small bearing area.
    - The floor is structurally designed as "un-shored construction" for a 5" thick slab and therefore the benefits or consequences of the shoring are the sole responsibility of the contractor.
3. It was reported that the slab placement is scheduled for Monday morning. Auburn concrete will send trucks from the Westbrook batch plant and it is expected that trucks will arrive less than 30 minutes after batch time. We discussed that trucks need to be unloaded at or before 90 minutes of when concrete was batched.
4. TEK screws connecting deck at lap splices installed at 24" oc. max. spacing.
5. Perimeter angle installed.
6. Steel studs in place. Bill said he "pinged" all the studs and those with faulty welds have been replaced.
7. The deck has been correctly positioned so that at the beams that are parallel with the deck flutes there is a continuous wide trough (deck low point) where the studs are welded to the deck.
8. Studs were field measured and they are 3.5" high and ¾" diameter as specified.
9. Art Gallant was on site checking stud quantity and also re-pinged about 20% of the studs to be sure they were alright.
10. The specified "TC Bolts" appear to be installed. Art is reviewing this also.
11. Wall and floor openings were being covered with plastic so that the interior space below deck could be heated. Bill said this area will be heated prior to placing the slab so that the concrete is placed on a warm deck.
12. Large heater (reported to be 1,000,000 BTU minimum) installed in sidewall and is hooked up to large propane tank. Heater was turned on during site visit.
13. Galvanized anchor bolts for connection of pressure treated wood sills to concrete were not observed during site visit. These need to be installed into the concrete slab.
14. The wire mesh for the slab was observed and measured to be 6"x6" and 3/16" diameter wire. The mesh was in flat sheets and supported on chairs.
15. The rebar dowels at the slab perimeter (spaced at 12" on center) were bent 90 degrees to the plane of the wall for embedment into the slab as specified.

16. I passed out a copy of the IBC provisions regarding "curing" as it describes maintaining concrete temperature for 7 days or 3 days depending on what type of concrete is placed (this is up to the contractor). Bill said he will use 1% accelerator in the slab to ensure that it will be hard enough for his finishers to get onto the slab before it gets too cool in the late afternoon. Temperatures for next week are predicted to be mild.
17. Bill said that blankets are ready and floodlights are ready. He said that SW Cole will be bringing (2) High/Low thermometers for the slab placement that will be left at the jobsite to monitor slab temperatures.

Items Needing Correction:

1. I said I need the rest of the metal deck submittal right away from Precision since it hasn't been approved yet. It must include something stating who is the manufacturer of the metal composite deck and the other components of the metal deck submittal listed in the spec.
2. If any kind of wind or if freezing temperatures are expected on the first night after the slab is placed then a night watchman needs to be scheduled to stay up to check the following:
    a. The blankets don't blow off
    b. The heater stays on
    c. Check the max/min thermometers for the concrete temp
3. There are quite a few locations where galvanized anchor bolts are required to go into the elevated slab (F3/S5.2, C6/S5.2, D8/S5.2, H7/S5.3, C2/S5.4). These will need to be installed so that expansion or epoxy bolts can be avoided.
4. Structural steel at the area west of grid AA is 3 inches too high. Structural shop drawings and connection calculations must be submitted for review and approval at the revised entrance area, which includes the area at grid A, AA and west of grid AA.
5. The two concrete piers that are located on gridline AA and are indicated as "P2 (SIM)" on plan view Detail H6/S3.3 still need to be installed. Vertical reinforcement should be the same as indicated for Pier Detail P2. Holes for the vertical pier reinforcement will need to be drilled into the footing using "AC 100 plus" epoxy anchoring cement (by Powers Fasteners) or an approved alternate epoxy. Depth of embedment should not be less than 10 inches and installation, including hole diameter, must be in accordance with manufacturer's directions.

Corrective action taken:

1. Masonry entrance piers have been repaired.
2. The beam near grid D/1.8 has been modified so the pieces fit together properly.

General:

The purpose of this site visit is to observe the project and generally become familiar with the progress and quality of the Contractor's work and to assess whether the work is proceeding in general conformance with the construction documents regarding the specific items listed within this report. The client has not retained Price Structural Engineers Inc. to make detailed inspections of every structural component, perform structural design or to provide exhaustive or continuous project review.

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Report prepared by: David A. Price, P.E.
Price Structural Engineers, Inc.
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Distribution: Greg Shinberg, Shinberg Consulting LLC
Richard Lo, TFH Architects
Bill Cuddy/ Pat Cushman / Dorian Sweeney - Portland Builders
Roger Domingo, Matt Lilley, SW Cole

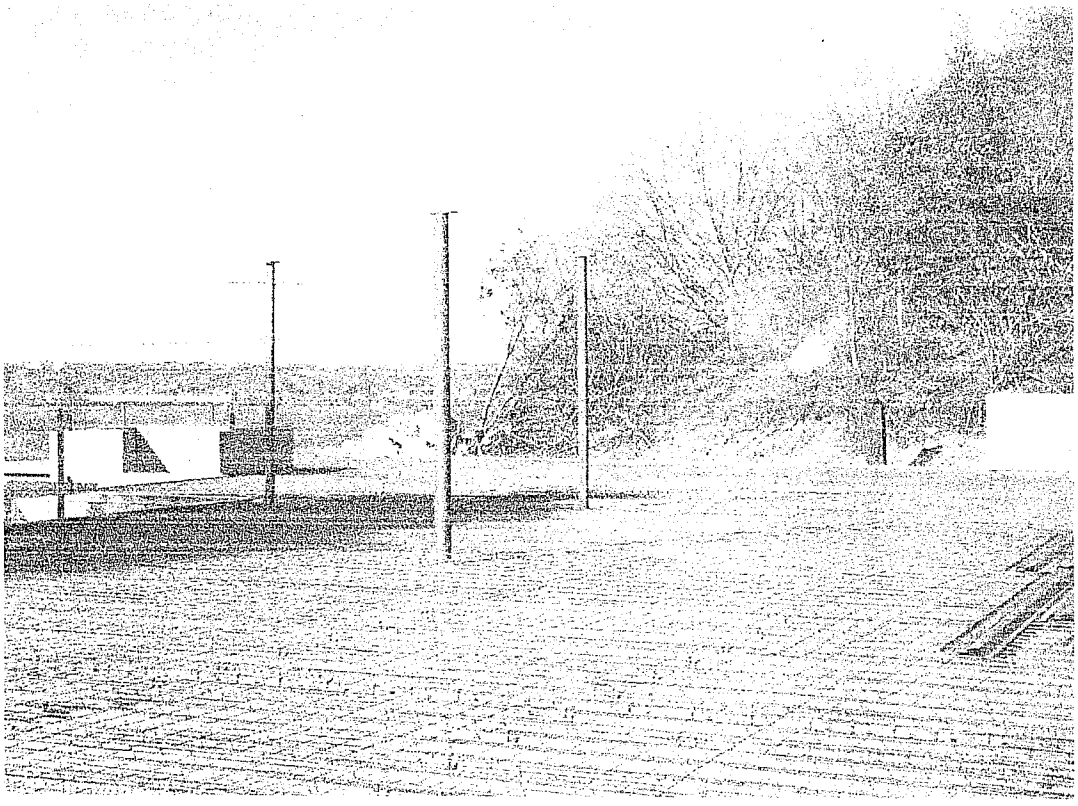

Photo 1 – Wire mesh on deck before slab placement – note steel posts to support 3rd floor Versalams

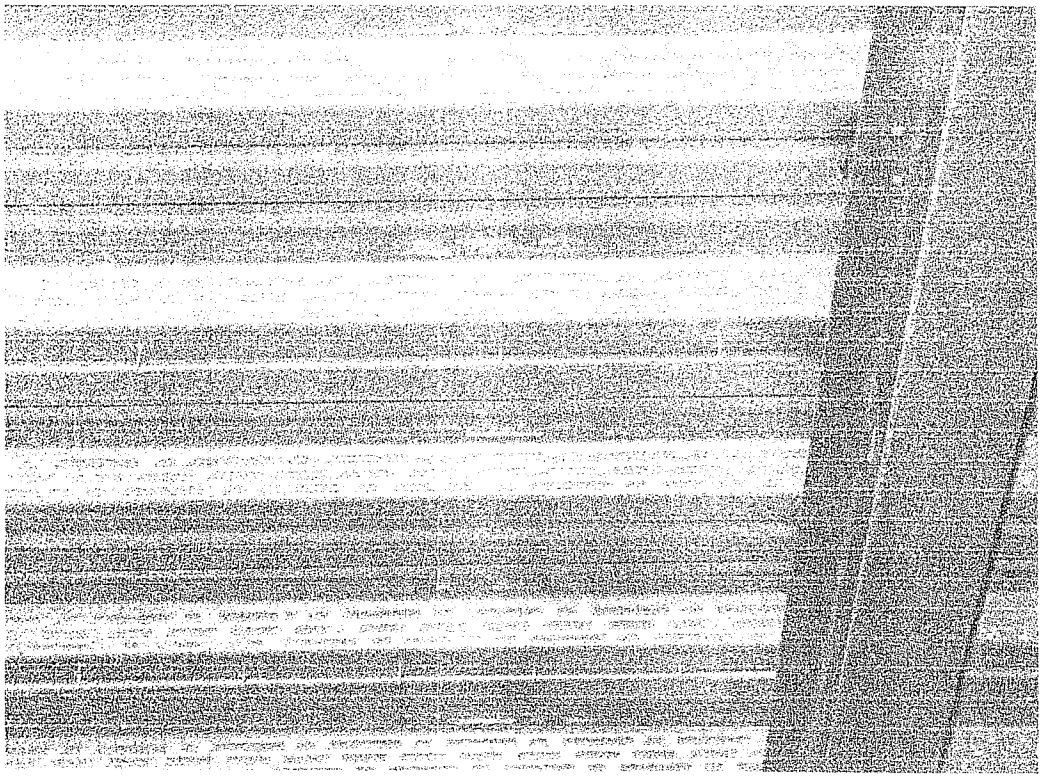

Photo 2 - Close – up of composite deck profile from below

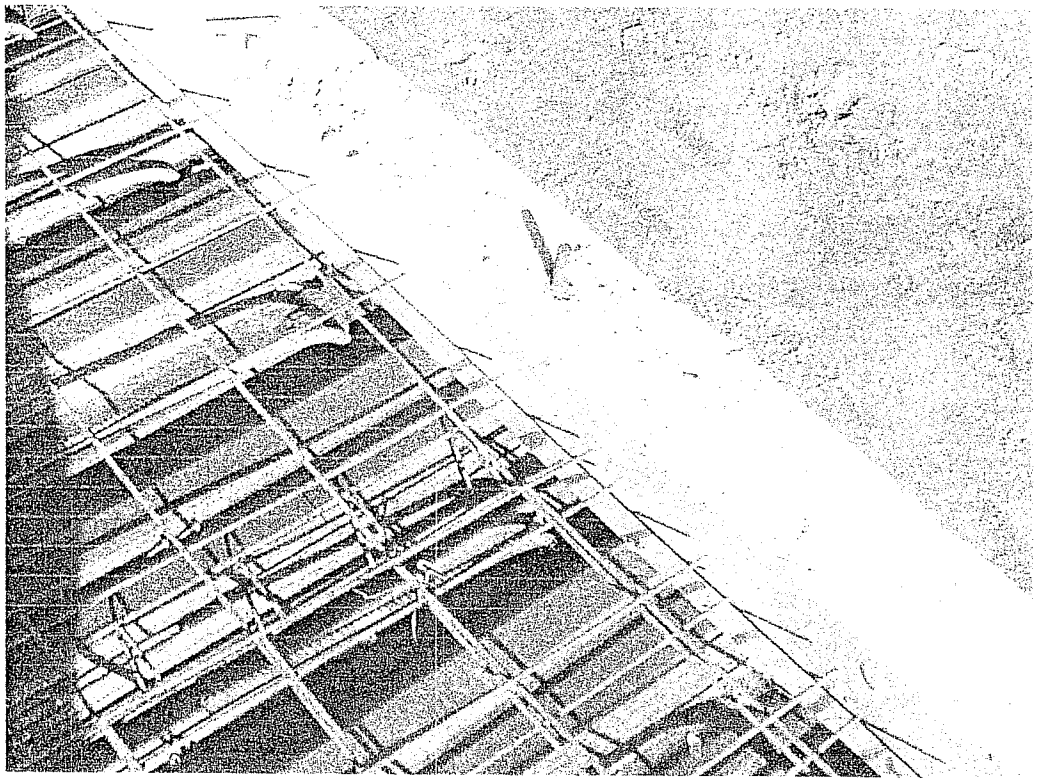

Photo 3 – Deck adjacent to concrete basement wall – note bent bars.

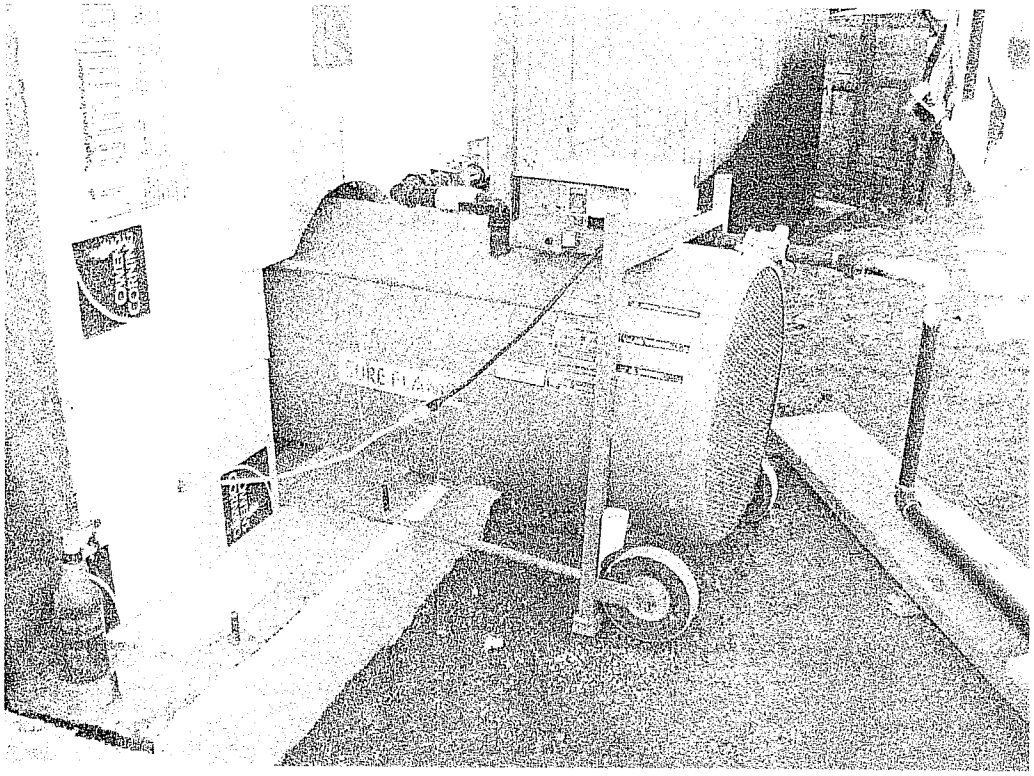

Photo 4 – Million BTU heater to heat space below deck

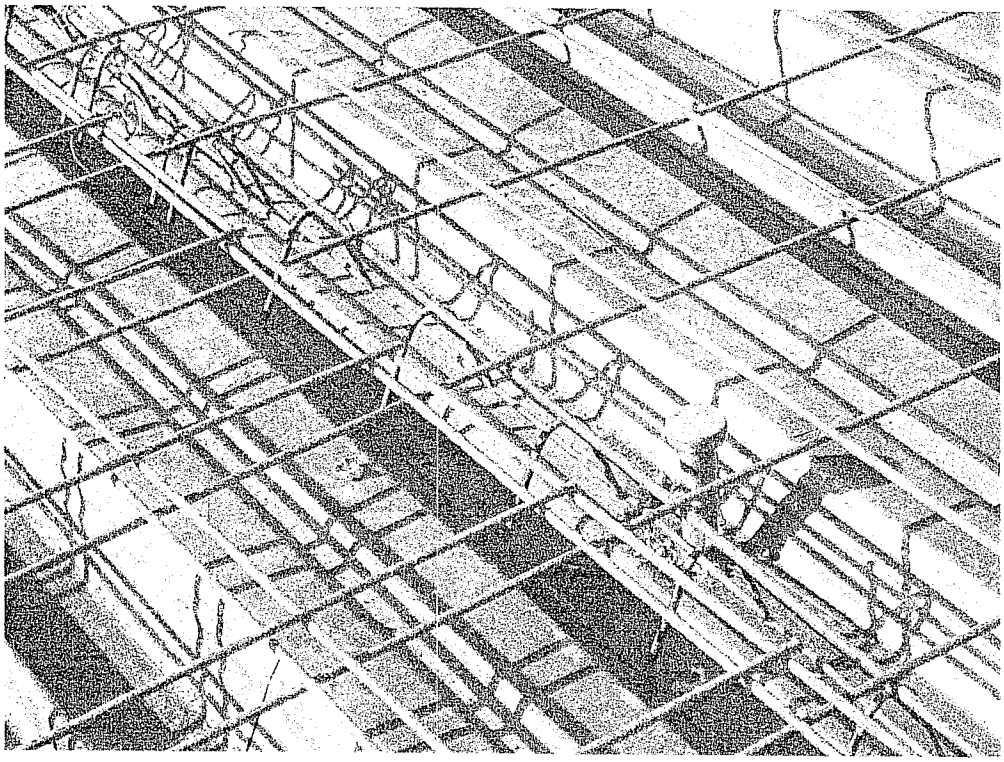

Photo 5 – Shear studs and wire mesh on chairs

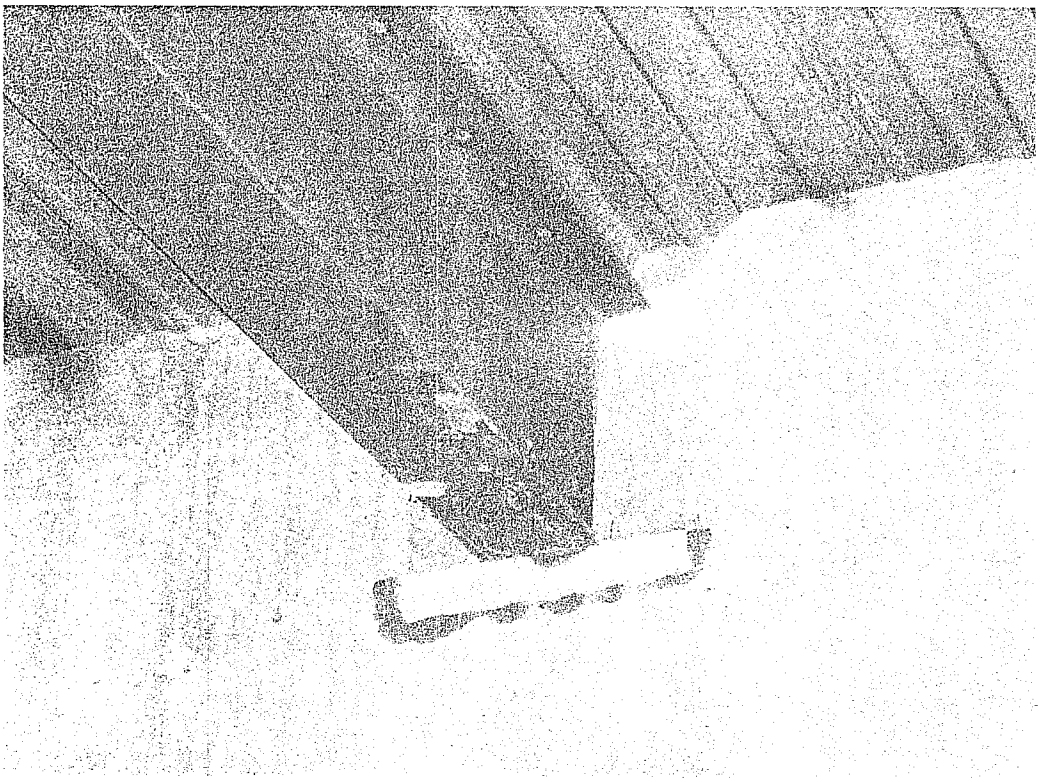

Photo 6 – Beam on bearing plate with flowable non-shrink grout below

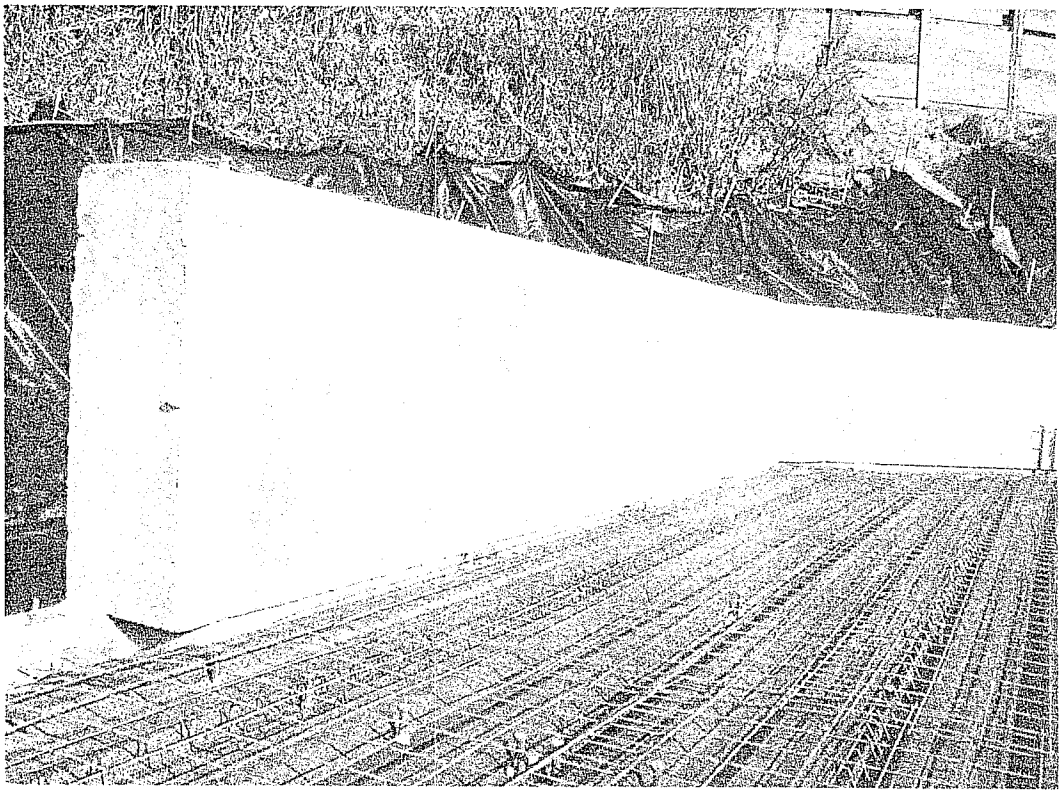

Photo 7 – Note bondout at retaining wall for slab bearing.

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: December 11, 2007
Time: 11:45 AM

Weather: Sunshine
Temperature: 40 deg. F.
Contractor: Portland Builders
Site contact: B.Cuddy, G. Shinberg

Project Items to be Observed:

1. Preliminary Wood Framing
2. Garage Slab on Grade

Field Observations / Project Status:

1. Wood framing is proceeding at first floor level and beginning at second floor level.
2. Concrete slab at garage has been installed since last site visit.
3. Masonry elevator shaft is being installed. Heated / tented conditions observed.
4. Versalam beams supported by steel frames with pockets at Grid 3 (reference plan H7/S5.5) appear to be installed adequately. Some bolts missing.

Items Needing Correction:

1. Floor trusses were observed at some locations that did not bear on studs. Add additional studs at these locations.
2. Some steel columns at second floor are not exactly plumb. Contractor will provide an RFI with field measurements describing location of column and distance that column is out of plumb at top of column. Column unbraced length is approximately 8'-3".
3. Wall panel needs framed lintel at 2nd floor grid N/2 to span over concrete wall opening. Rough opening sizes of equipment to be installed in opening must be obtained prior to installing lintel. See Architectural Elevation 1/A2.1 for wall elevation indicating wall opening at this area. Frame lintel opening using Type "L3" lintel (3 – 2x10's) per detail Schedule D5/S5.1 and detail D6/S5.1.
4. Versalam Beam "**B712**" located near grid E/4 on the second floor (reference plan H7/S5.5) was installed with centerline at more than 6" from face of CMU and therefore cannot support any portion of the exterior wall above. The wall above is load bearing in that it supports joists at the 3rd, 4th and roof levels. See attached repair details **SK-S1** and **SK-S2** for necessary repairs at this area. Existing anchorages of B712 beam shall not be modified.
5. (From previous site visit):The two concrete piers that are located on gridline AA and are indicated as "P2 (SIM)" on plan view Detail H6/S3.3 still need to be installed. Vertical reinforcement should be the same as indicated for Pier Detail P2. Holes for the vertical pier reinforcement will need to be drilled into the footing using "AC 100 plus" epoxy anchoring cement (by Powers Fasteners) or an approved alternate epoxy. Depth of embedment should not be less than 10 inches and installation, including hole diameter, must be in accordance with manufacturer's directions.

Corrective action taken:

1. Metal Deck submittal was reviewed and approved (with discrepancies noted).
2. Structural steel at the area west of grid AA is 3 inches too high. Structural shop drawings and connection calculations were submitted for review and approval on 12/7/07 and are currently being reviewed.

General:

The purpose of this site visit is to observe the project and generally become familiar with the progress and quality of the Contractor's work and to assess whether the work is proceeding in general conformance with the construction documents regarding the specific items listed within this report. The client has not retained Price Structural Engineers Inc. to make detailed inspections of every structural component, perform structural design or to provide exhaustive or continuous project review.

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Report prepared by: David A. Price, P.E.
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75 Farms Edge Road
North Yarmouth, ME 04097

Distribution: Greg Shinberg, Shinberg Consulting LLC
Richard Lo, TFH Architects
Bill Cuddy/ Pat Cushman / Dorian Sweeney - Portland Builders
Roger Domingo, Matt Lilley, SW Cole

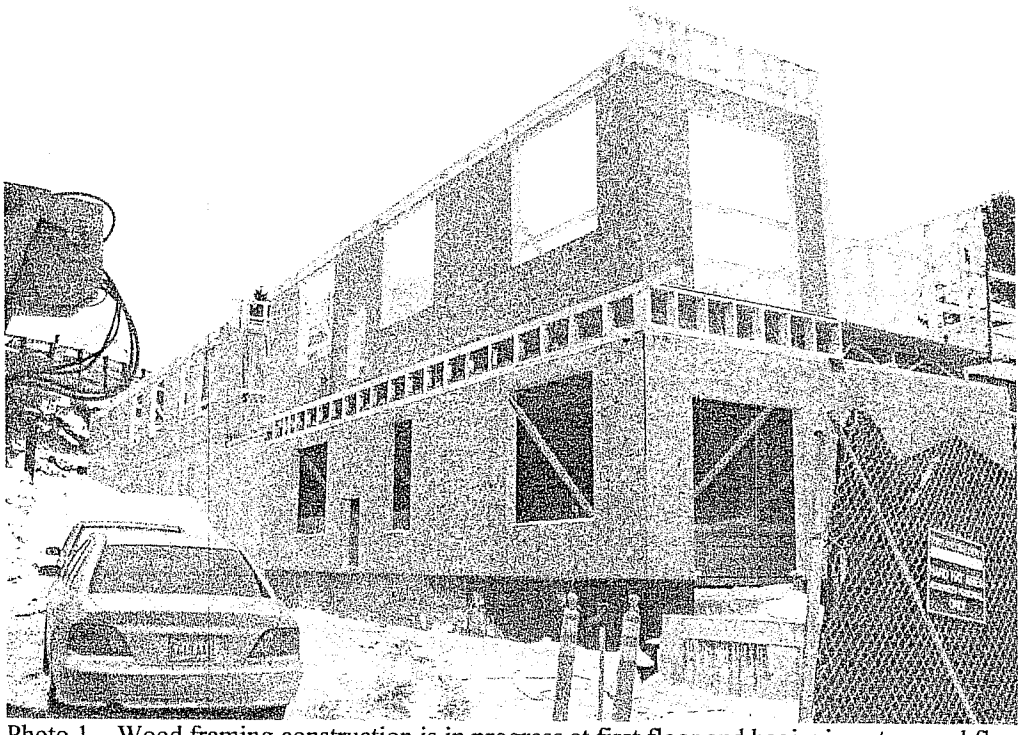


Photo 1 – Wood framing construction is in progress at first floor and beginning at second floor.

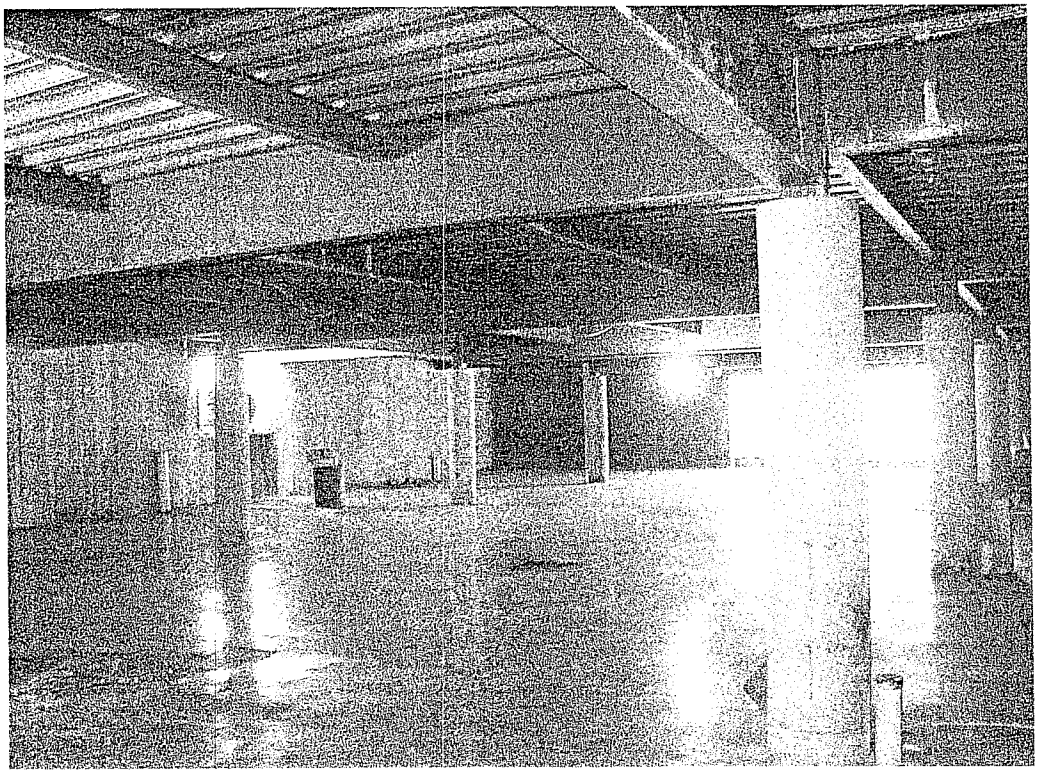


Photo 2 – Garage slab placed

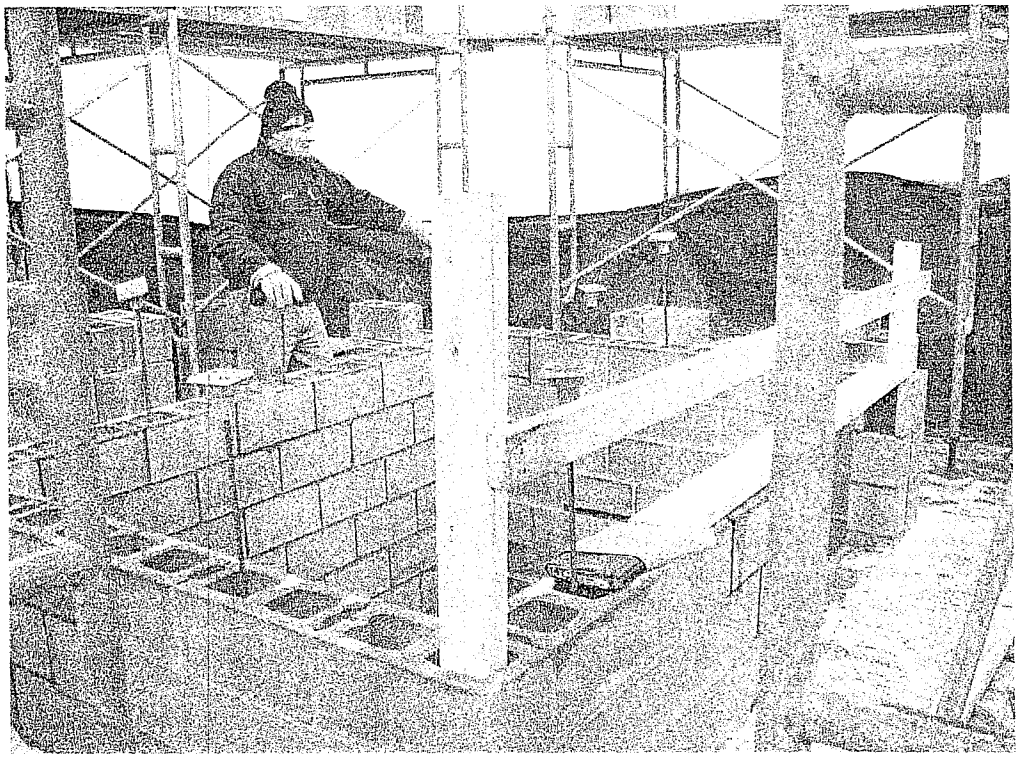


Photo 3 – Masonry elevator shaft being installed inside tented / heated protection from weather.

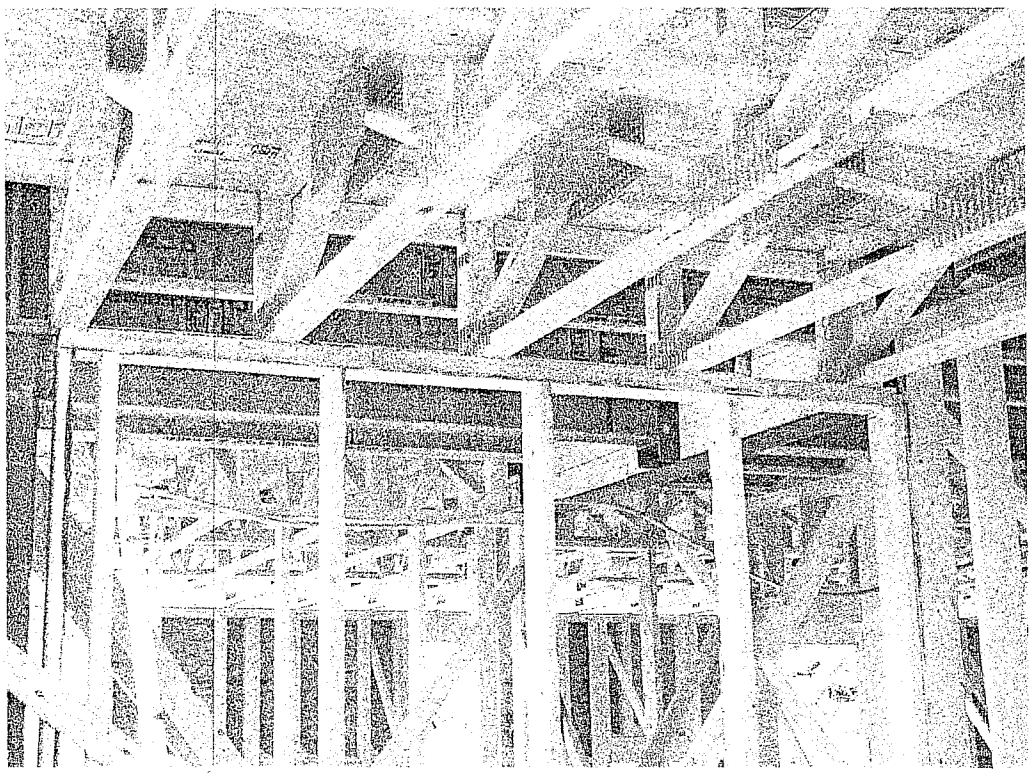


Photo 4 – Additional wall studs need to be added such that a stud aligns below centerline of each truss.

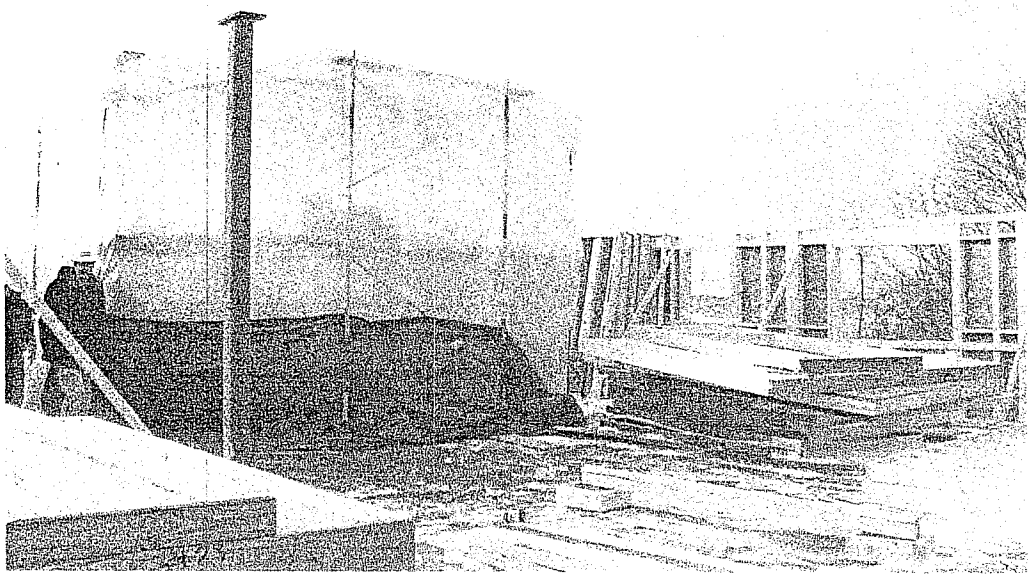


Photo 5 - Some steel columns are not exactly plumb. Contractor will provide an RFI with field measurements.

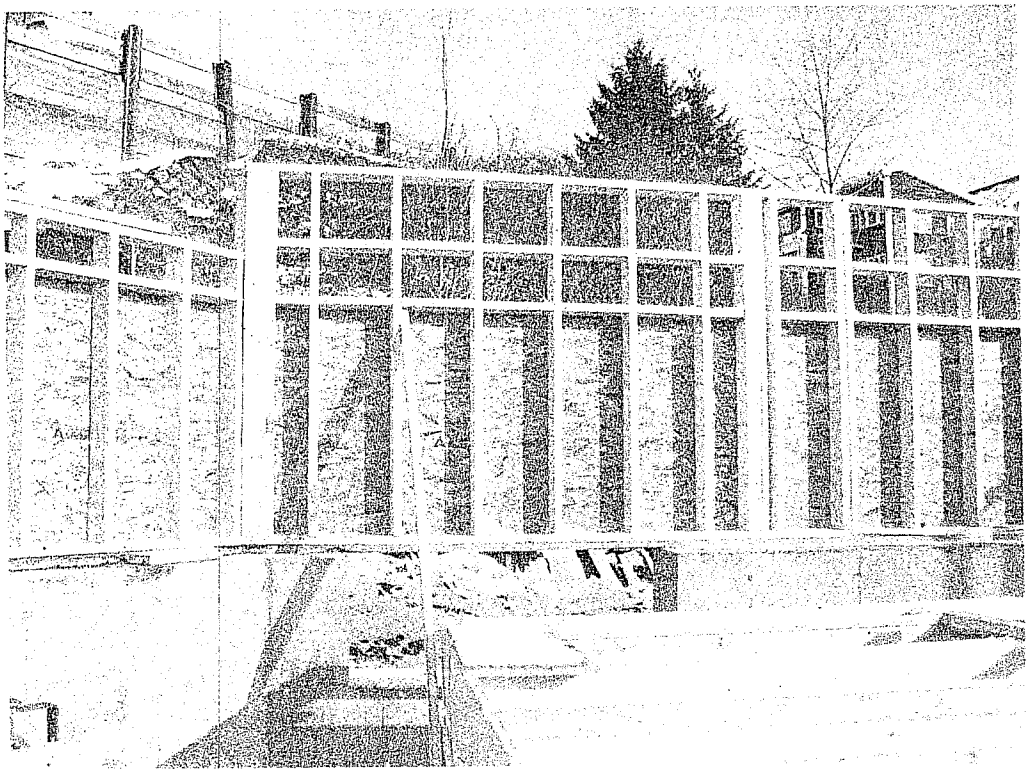


Photo 6 – Wall panel needs framed lintel to span over concrete wall opening. Rough opening size of equipment to be installed in opening must be obtained prior to installing framed lintel.

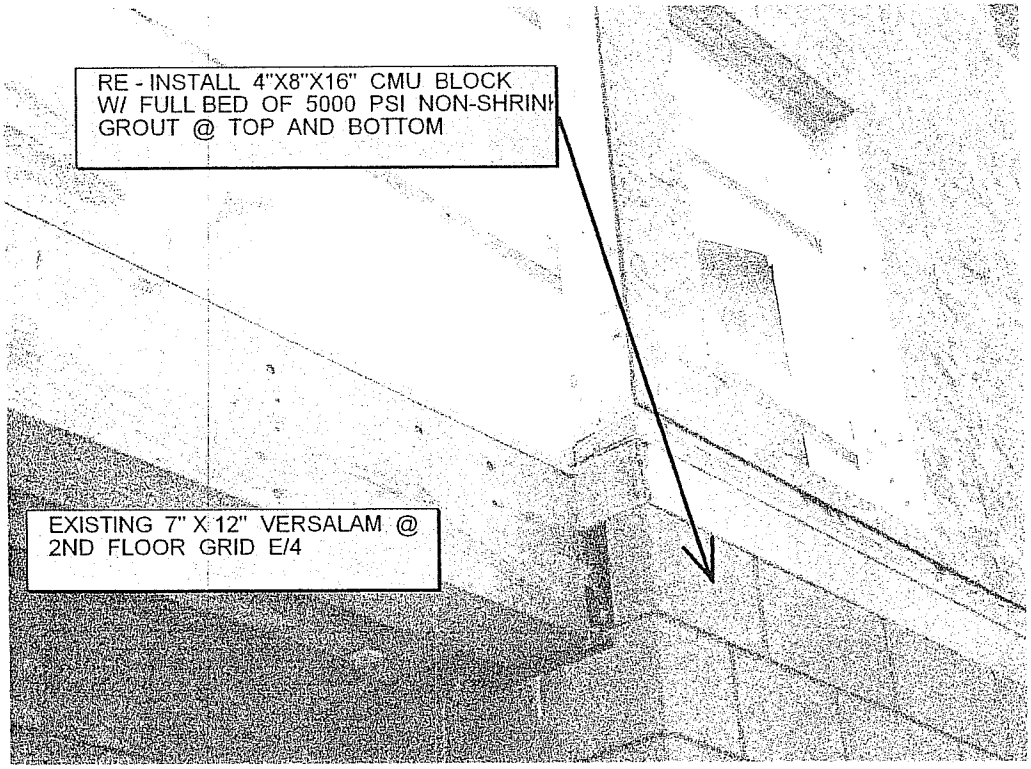
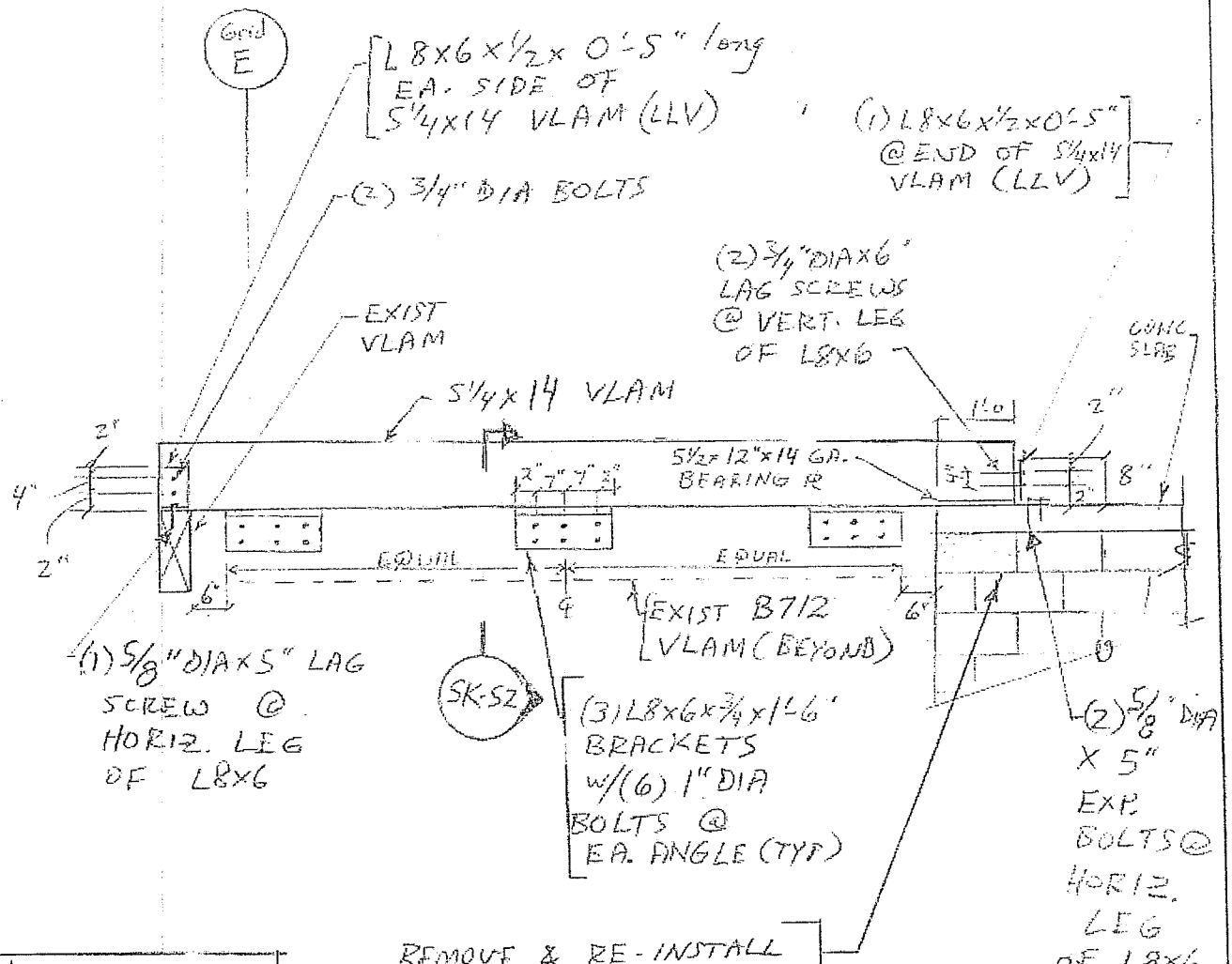


Photo 7 – Centerline of B712 is more than 6" from face of CMU wall. See attached repair sketch details.

Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097
Tel: 207-846-0099
Fax: 207-846-1633

Project: Sheridan Heights	SK-S1
Subject: Repair to Beam B7/2 @ Grid 4.1/E	Sheet: of
Date: 12-07	Job #: 112-07
Designed by: RAF	Checked by:

See Dec. 11, 2007 Site Visit Report



Reference:
Part. Plan H7/S5.5

REMOVE & RE-INSTALL EXIST. 4"x8"x16" CONC. BLOCK WITH FULL BED JOINT OF 5000 psi NON-SHRINK GROUT @ TOP & BOTTOM OF BLOCK. (Block shall provide sound bearing for slab)

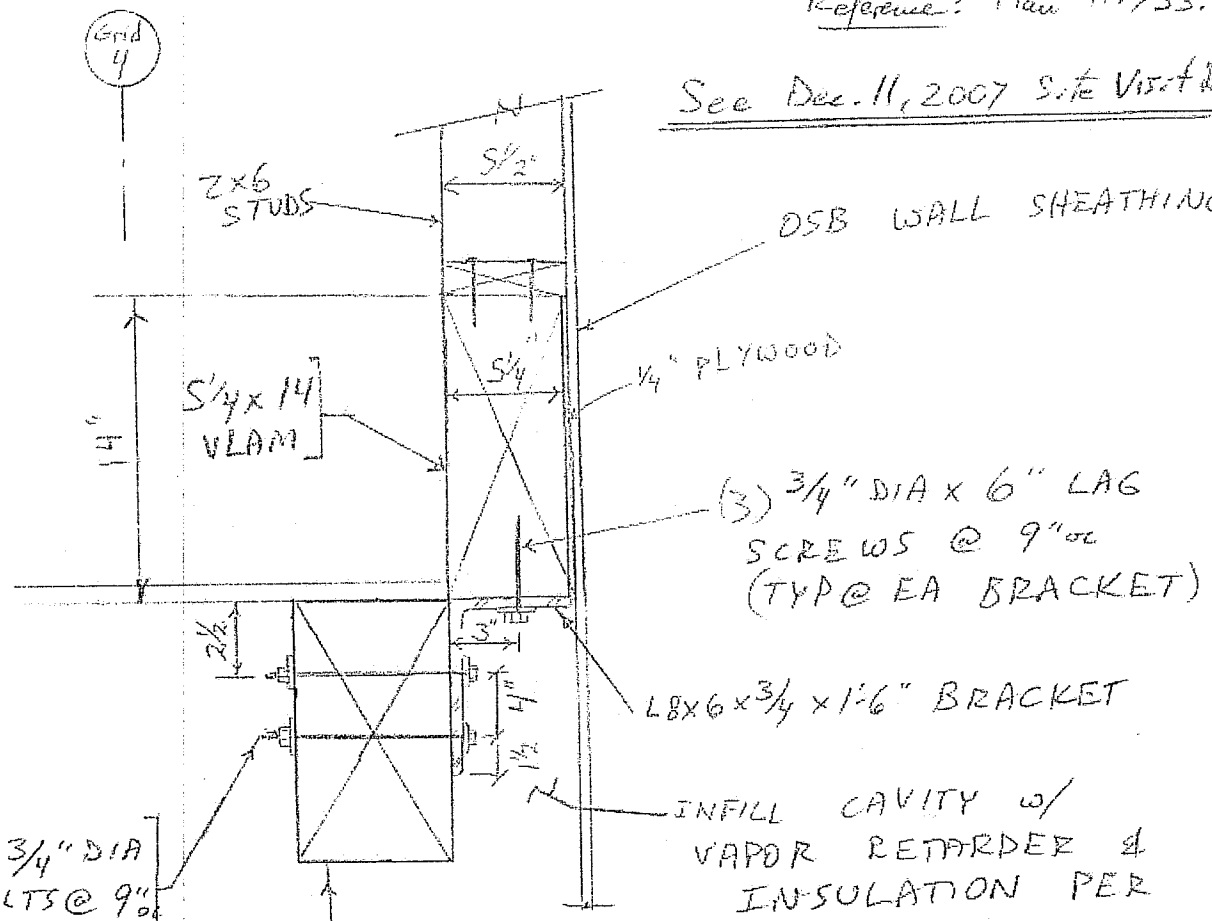
SK-S1 VIEW LOOKING NORTH
REPAIR DETAIL @ B7/2 BEAM @ GRID 4.1/E
3/8" = 1'-0

Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097
Tel: 207-846-0099
Fax: 207-846-1633

Project: Sheridan Heights	SK-S2
Subject: Report to Beam B7/2 @ Grid 4.1/E	Sheet of
Date: 12/07	Job #: 112-07
Designed by: DAP	Checked by

Reference: Plan H7/55.5

See Dec. 11, 2007 Site Visit Report



SK-S2 SECTION
1½ = 1'-0

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: January 21, 2007
Time: 11:45 AM

Weather: Sunshine
Temperature: 28 deg. F.
Contractor: Portland Builders
Site contact: B.Cuddy

Project Items to be Observed:

1. Review possibility of moving existing wall (located at grid G.1/5.5) to a position 6 inches to the north
2. Observe repair to B712 beam at grid E.5/4.1(ref. H7/S5.5).

Field Observations / Project Status:

1. Wood framing is proceeding at first, second and third floor levels and beginning at fourth floor level.
2. The challenge to moving the existing wall is to provide support to the existing floor trusses since the wall to be moved is load-bearing (the wall is located at the south end of the porch at each floor level). A conceptual sketch was subsequently issued so that it could be reviewed by the owner and contractor for future discussions.
3. The repair to beam B712 beam at grid E.5/4.1 appears to be in accordance with the previously issued repair sketches.

Items Needing Correction:

Items observed from previous site visit(s):

1. Wall panel needs framed lintel at 2nd floor grid N/2 to span over concrete wall opening. Rough opening sizes of equipment to be installed in opening must be obtained prior to installing lintel. See Architectural Elevation 1/A2.1 for wall elevation indicating wall opening at this area. Frame lintel opening using Type "L3" lintel (3 – 2x10's) per detail Schedule D5/S5.1 and detail D6/S5.1. Lintel is not scheduled to be installed until mechanical unit is installed.
2. The two concrete piers that are located on gridline AA and are indicated as "P2 (SIM)" on plan view Detail H6/S3.3 still need to be installed. Vertical reinforcement should be the same as indicated for Pier Detail P2. Holes for the vertical pier reinforcement will need to be drilled into the footing using "AC 100 plus" epoxy anchoring cement (by Powers Fasteners) or an approved alternate epoxy. Depth of embedment should not be less than 10 inches and installation, including hole diameter, must be in accordance with manufacturer's directions. Note, this concrete work cannot be performed until the weather warms up

Corrective action taken:

1. Structural steel at the area west of grid AA was 3 inches too high. Structural shop drawings and connection calculations were submitted for review and approved as noted. Work in this area appears to be proceeding per plans and specs.
2. Versalam Beam "**B712**" located near grid E/4 on the second floor (reference plan H7/S5.5) was previouslyinstalled with centerline at more than 6" from face of CMU and therefore could not support any portion of the exterior wall above. The repair at this area appears to conform to the structural sketches issued for this area.
3. Floor trusses were observed at some locations that did not bear on studs. Additional studs at these locations have been added at the areas previously observed.

General:

The purpose of this site visit is to observe the project and generally become familiar with the progress and quality of the Contractor's work and to assess whether the work is proceeding in general conformance with the construction documents regarding the specific items listed within this report. The client has not retained Price Structural Engineers Inc. to make detailed inspections of every structural component, perform structural design or to provide exhaustive or continuous project review.

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Report prepared by: David A. Price, P.E.
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75 Farms Edge Road
North Yarmouth, ME 04097

Distribution: Greg Shinberg, Shinberg Consulting LLC
Richard Lo, TFH Architects
Bill Cuddy/ Josh Cushman / Dorian Sweeney - Portland Builders

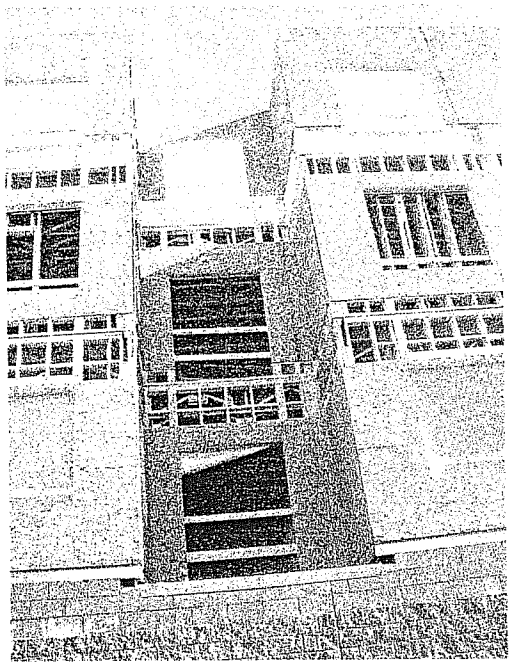

Photo 1 – Exterior elevation facing west at Grid line G – wall that is being reviewed is on the right hand side of porch.

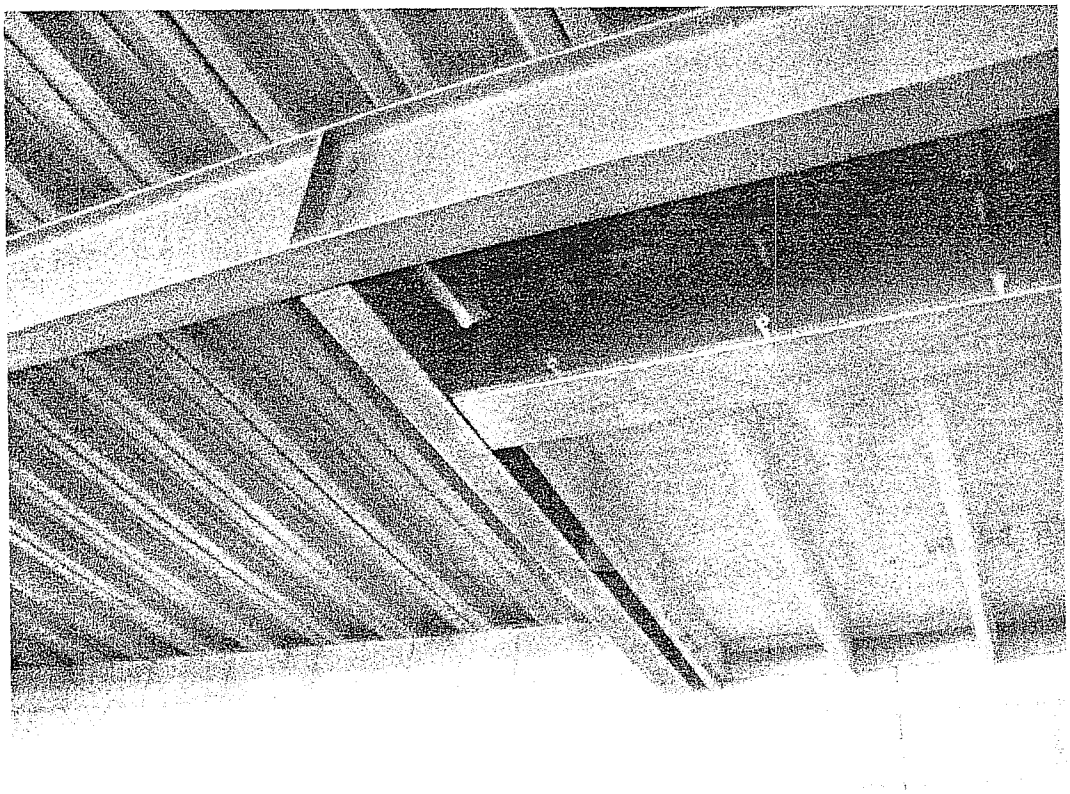

Photo 2 – Steel framing below porch at second floor grid G./5.5.

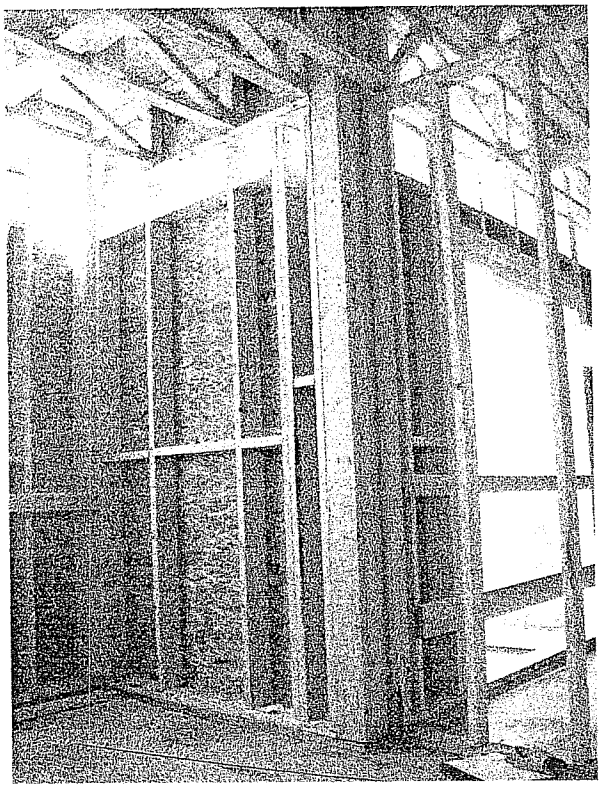

Photo 3 – Interior elevation of wall located at Grid line G./S5.5 – second floor.

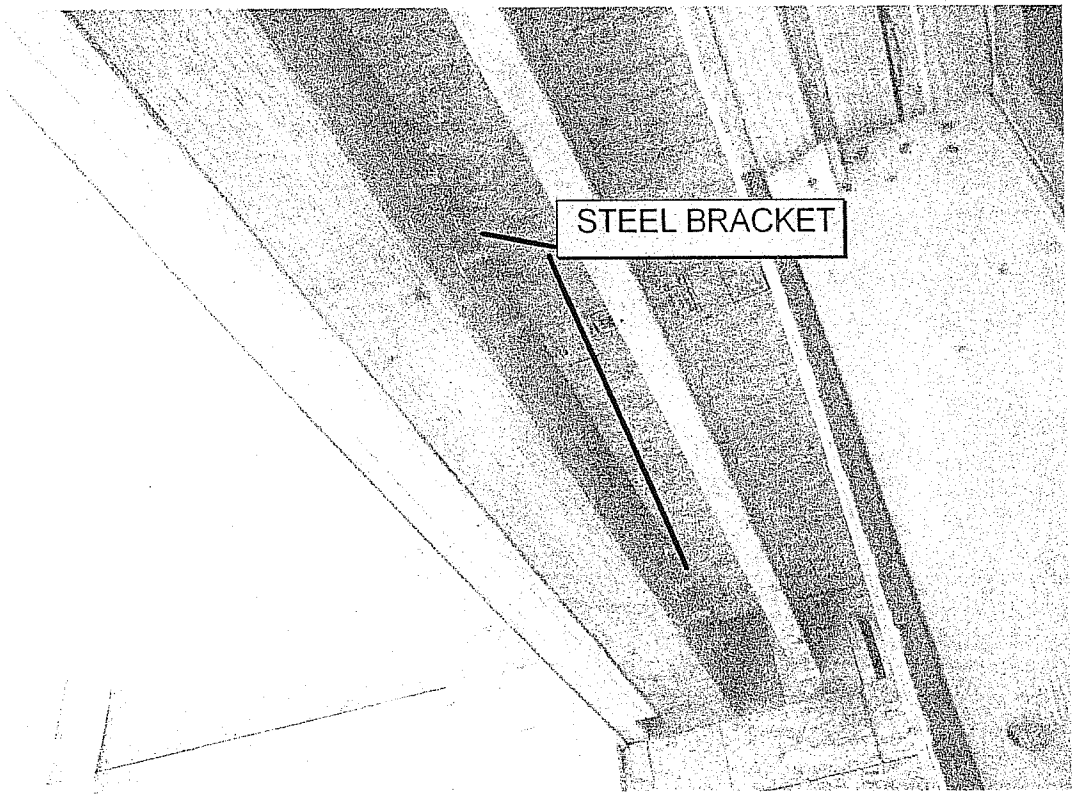

Photo 4 – Repair to existing B712 beam appears to be complete (ref. H7/S5.5).

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: Feb. 18, 2005
Time: 10:00 AM

Weather: Rain
Temperature: 40 deg. F.
Contractor: Portland Builders
Site contact: B.Cuddy

Project Items to be Observed:

1. First and second floor wood framing

Field Observations / Project Status:

1. Wood framing observed at first and second floors only. Review was for structural details indicated on original drawings. Items on these floor levels contained in subsequent drawing revisions will be reviewed during the next site visit(s). Some structural items could not be observed because they were covered with floor sheathing or other materials.

2. As can be seen within this report, the overall structural framing appears to be excellent. The general contractor has exhibited a diligent effort in observing the structural details and is to be commended. It is my understanding that the framing contractor is Veteran Construction (foreman: "Jimbo") who also deserves recognition.

3. Simpson A23 anchorage clips observed at ends of floor trusses bearing on walls and appear to be installed as specified.

4. Strong backs connecting floor trusses at 8 feet on center were installed with lap splices and anchorages at end walls. This work appears to be installed as specified.

5. Double studs between the ground floor and the second floor were installed below truss bearing points at exterior first-floor walls and appear to be installed as specified.

6. Double studs between the second and third floor were installed below truss bearing points at interior gridline 3 load-bearing wall and appear to be installed as specified.

7. Versalam beams were anchored to wood columns underneath with Simpson end cap anchors each side and appear to be installed as specified.

8. Bolts connecting shear walls bases to Parallam beams below were observed and appear to be installed as specified.

9. Simpson Hold-down anchors were observed at ends of shear walls along with bolts connecting shear wall bases to supports underneath. This work appears to be installed as specified.

10. Built-up columns were assembled with offsetting lag screws and this work appears to be as specified by the building code.

11. Edges of OSB wall sheathing were supported by blocking between studs as specified.

12. Nails connecting OSB wall sheathing to lumber supports at panel edges were at very close spacing and appear to be installed as specified.

13. Doubled jamb studs below lintels and double king studs adjacent to lintels appeared to be installed where specified (observations made at random locations only).

14. Stair stringers were reinforced both sides with lumber and appear to be installed as specified.

15. Nonload bearing walls were connected to floor framing with blocking and appear to be installed as specified.

16. Trusses suspended from the sides of beams were supported by hangers and appear to be installed as specified.

17. Some shear walls are required to have OSB sheathing installed on both sides. The sheathing was purposely left off of one side so interior framing and hold down anchors could be observed.

18. Versalam beams bearing on steel column cap plates had four lag screws as specified.

Items Needing Correction:

1. The stairs stringers at the ground floor landing at Stair B are supported by a 2x ledger which is face nailed to the front of the primary beam and not bearing directly above the continuous primary beam itself (see photo number 8). To provide adequate transfers structural loads, bolt the 2x to the primary being with (2) ¾" diameter bolts at each end of the 2x and at 16" on center.
2. There is no grout underneath the structural steel base plates at the front entrance area at grid line A. and AA. The contractor indicated that it is currently too cold to place the grout and will do so as soon as weather permits.

Items observed from previous site visit(s):

1. Wall panel needs framed lintel at 2nd floor grid N/2 to span over concrete wall opening. Rough opening sizes of equipment to be installed in opening must be obtained prior to installing lintel. See Architectural Elevation 1/A2.1 for wall elevation indicating wall opening at this area. Frame lintel opening using Type "L3" lintel (3 – 2x10's) per detail Schedule D5/S5.1 and detail D6/S5.1. Lintel is not scheduled to be installed until mechanical unit is installed.
2. The two concrete piers that are located on gridline AA and are indicated as "P2 (SIM)" on plan view Detail H6/S3.3 still need to be installed. Vertical reinforcement should be the same as indicated for Pier Detail P2. Holes for the vertical pier reinforcement will need to be drilled into the footing using "AC 100 plus" epoxy anchoring cement (by Powers Fasteners) or an approved alternate epoxy. Depth of embedment should not be less than 10 inches and installation, including hole diameter, must be in accordance with manufacturer's directions. Note, this concrete work cannot be performed until the weather warms up

Corrective action taken:

1. Structural steel at the area west of grid AA was 3 inches too high. Structural shop drawings and connection calculations were submitted for review and approved as noted. Work in this area appears to be per plans and specs.
2. Versalam Beam "**B712**" located near grid E/4 on the second floor (reference plan H7/S5.5) was previously installed with centerline at more than 6" from face of CMU and therefore could not support any portion of the exterior wall above. The repair at this area appears to conform to the structural sketches issued for this area.
3. Floor trusses were observed at some locations that did not bear on studs. Additional studs at these locations have been added at the areas previously observed.

General:

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Photo 1

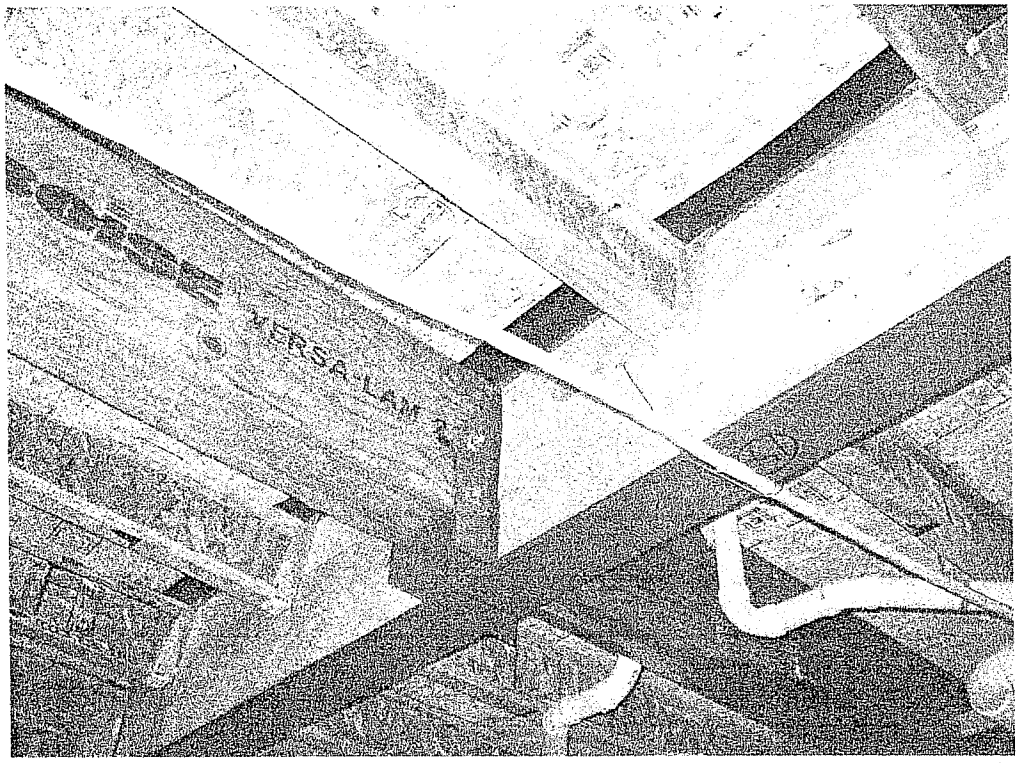

Photo 2 – Versalam Beam to structural steel connection at gridline 3/B

Photo 3 – Note the close spacing of nails at edges of always be sheathing. This was observed at shear wall construction.

Photo 4 – Typical hold down anchor at top and bottom of shear walls

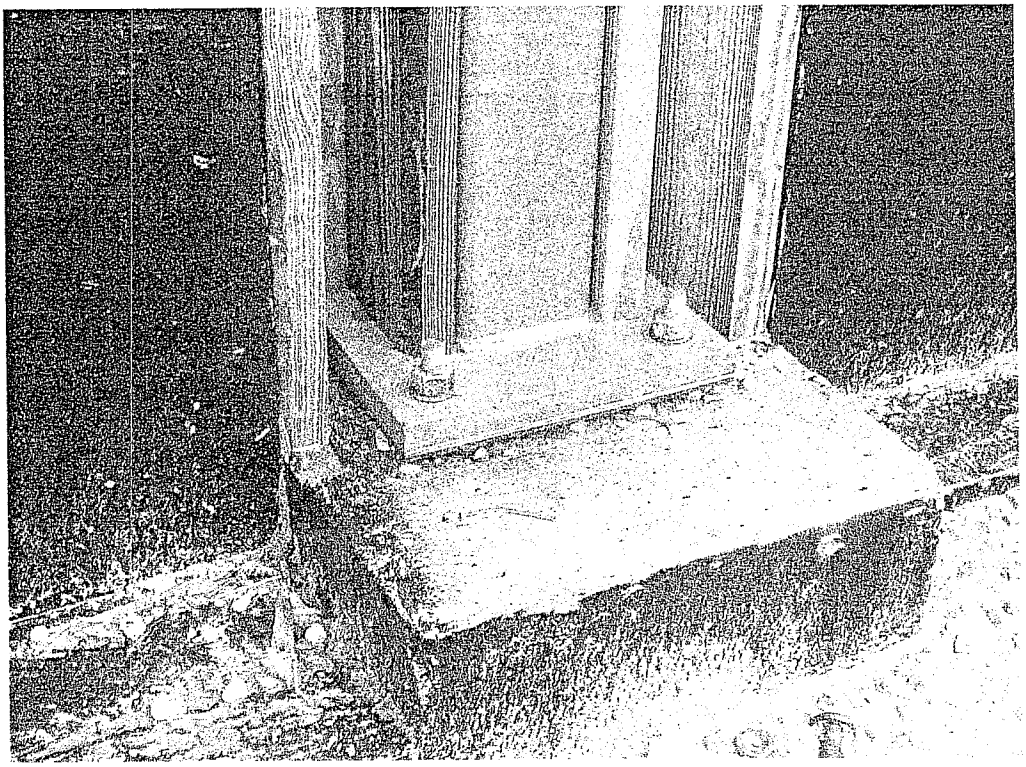

Photo 7 – Base plates and front entrance area of were not yet grouted.

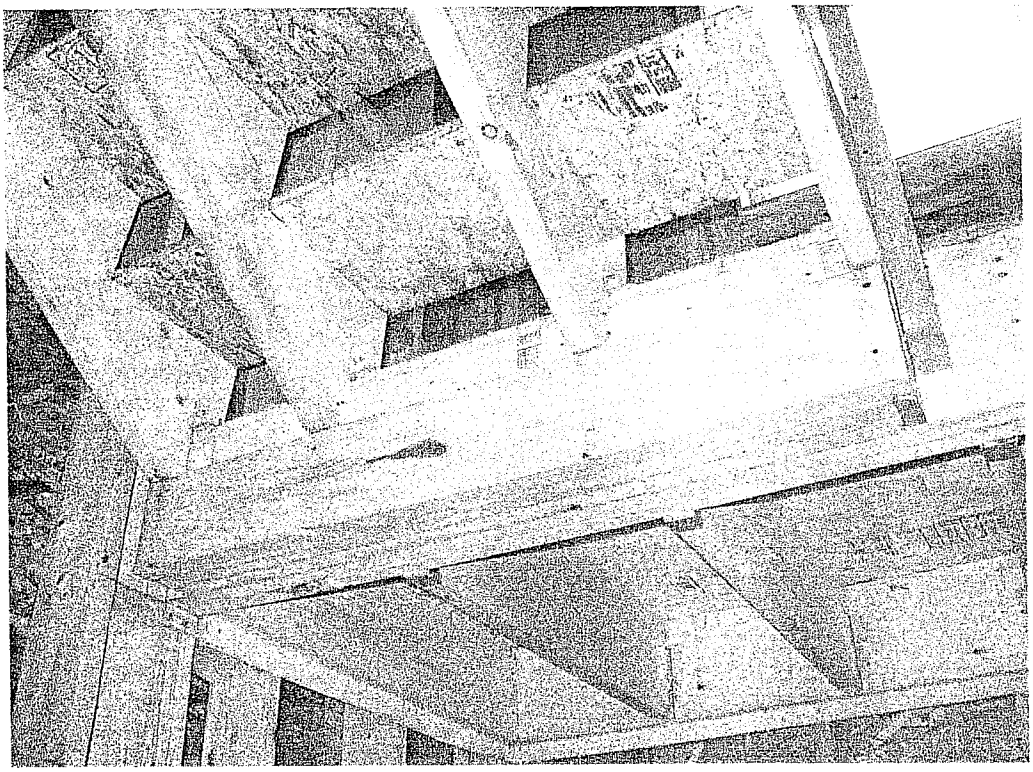

Photo 8 – Stairs stringers not bearing directly over double 2x primary framing. Ledger must be bolted to primary framing

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: March 11, 2008
Time: 1:00 AM

Weather: Clear
Temperature: 35 deg. F.
Contractor: Portland Builders
Site contact: B.Cuddy

Project Items to be Observed:

1. Third and fourth floor wood framing

Field Observations / Project Status:

1. General – structural rough carpentry nearing completion. Exterior porches not yet started. Hold down anchors and seismic straps were being installed during the site visit.

2. The non-load bearing concrete piers (supports masonry loads , but does not support floor loads above) have been installed. Brick masonry was being installed during the site visit in a heated and tented space. See photo number one.

3. The stairway stringers at the garage stairs (stair B) have been connected to the steel beam at the second floor level with a bolted header and the work appears to be as specified. Kickers connecting the bottom of the steel beam to the concrete slab were also noted. See photo number two.

4. At the ground floor level of stair A , the header that was supporting the stair stringers is now bolted.

5. At locations where stair stringers are too low to be connected to stair landings, Simpson THAI hangers were all observed and the work appears to be as specified. See photo number three.

6. At shear walls with OSB sheathing, horizontal blocking has been installed between studs so that all edges of the OSB are supported as specified. See photo number six.

7. Strong backs and anchorage at the ends of the strong backs to wall locations were observed and the work appears to be as specified.

8. Simpson beam to column connectors were observed.

9. Interior OSB shear walls were observed. Tight nail spacing was also all observed at the perimeter of the OSB sheathing.

10. Compression blocking was observed at the and of the engineered I joists, this blocking transfers vertical wall loads above to the wall plates below. See photo number four.

11. Steel columns embedded in walls were anchored at the top and bottom base plates.

12. At locations observed, trusses were centered over studs as specified.

13. Hold on anchors were observed at the top and bottom of walls and this work appears to be installed as specified. See photo number five.

Items Needing Correction:

1. Since hold down anchors were still be worked on during the site visit, these anchors must be reviewed further during the next site visit after they have been completed. Also , steel straps at the exterior sheathing must also be observed.
2. Exterior porches have not yet been framed and this will also be a subject of review during the next site visit.

Items observed from previous site visit(s):

1. Wall panel needs framed lintel at 2nd floor grid N/2 to span over concrete wall opening. Rough opening sizes of equipment to be installed in opening must be obtained prior to installing lintel. See Architectural Elevation 1/A2.1 for wall elevation indicating wall opening at this area. Frame lintel opening using Type "L3" lintel (3 – 2x10's) per detail Schedule D5/S5.1 and detail D6/S5.1. Lintel is not scheduled to be installed until mechanical unit is installed.
2. There is no grout underneath the structural steel base plates at the front entrance area at grid line A. and AA. The contractor indicated that it is currently too cold to place the grout and will do so as soon as weather permits.

Corrective action taken:

1. The stairs stringers at the ground floor landing at Stair A was supported by a 2x ledger which is face nailed to the front of the primary beam and not bearing directly above the continuous primary beam itself . At the ground floor level of stair A , the header that was supporting the stair stringers is now bolted.
2. The two concrete piers that are located on gridline AA and are indicated as "P2 (SIM)" on plan view Detail H6/S3.3 needed to be installed. These non-load bearing concrete piers (supports masonry loads but does not support floor loads above) have been installed. Brick masonry was being installed during the site visit in a heated and tented space.

General:

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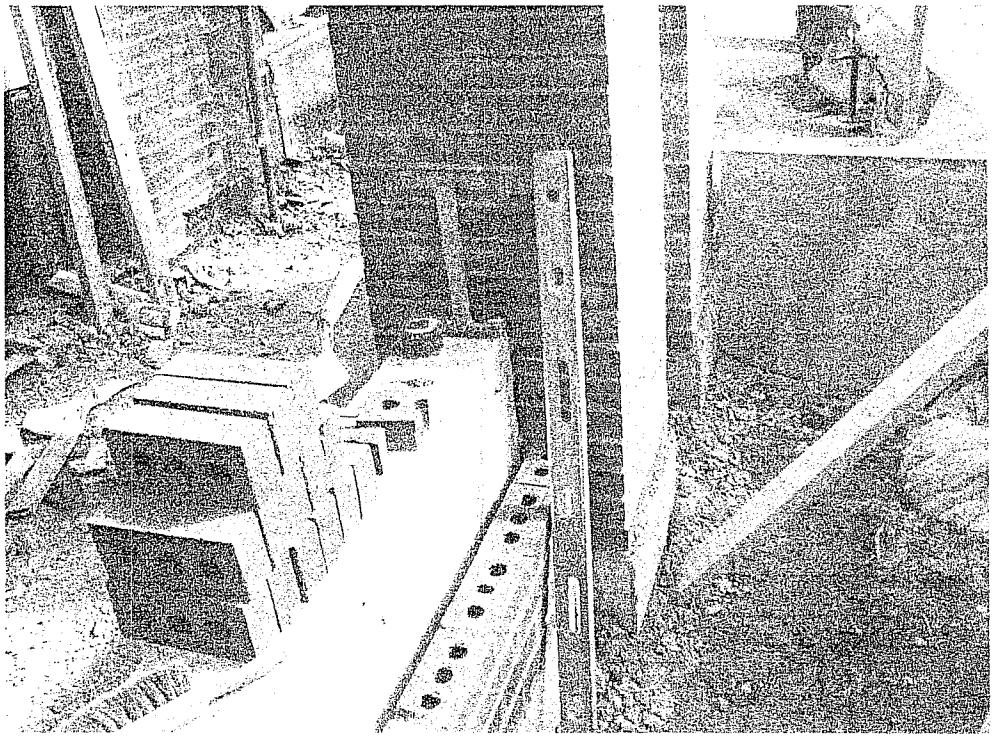

Photo # 1 – Brickwork inside heated space at front entrance.

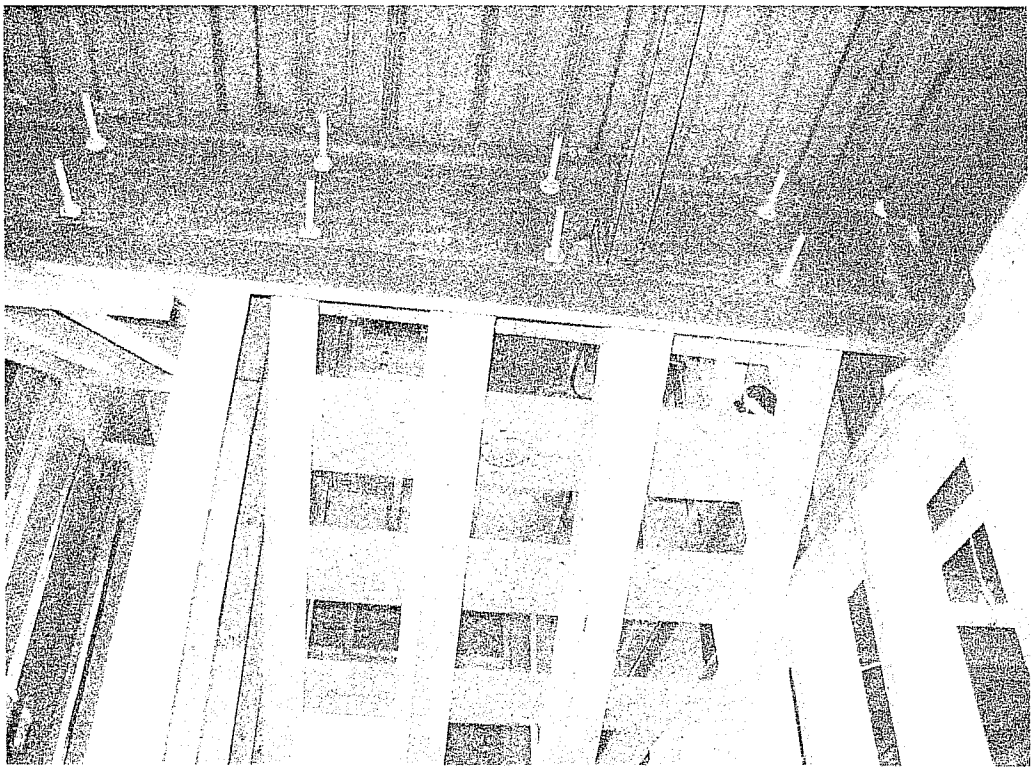

Photo # 2 – Bolted header and kicker at stair B second floor.

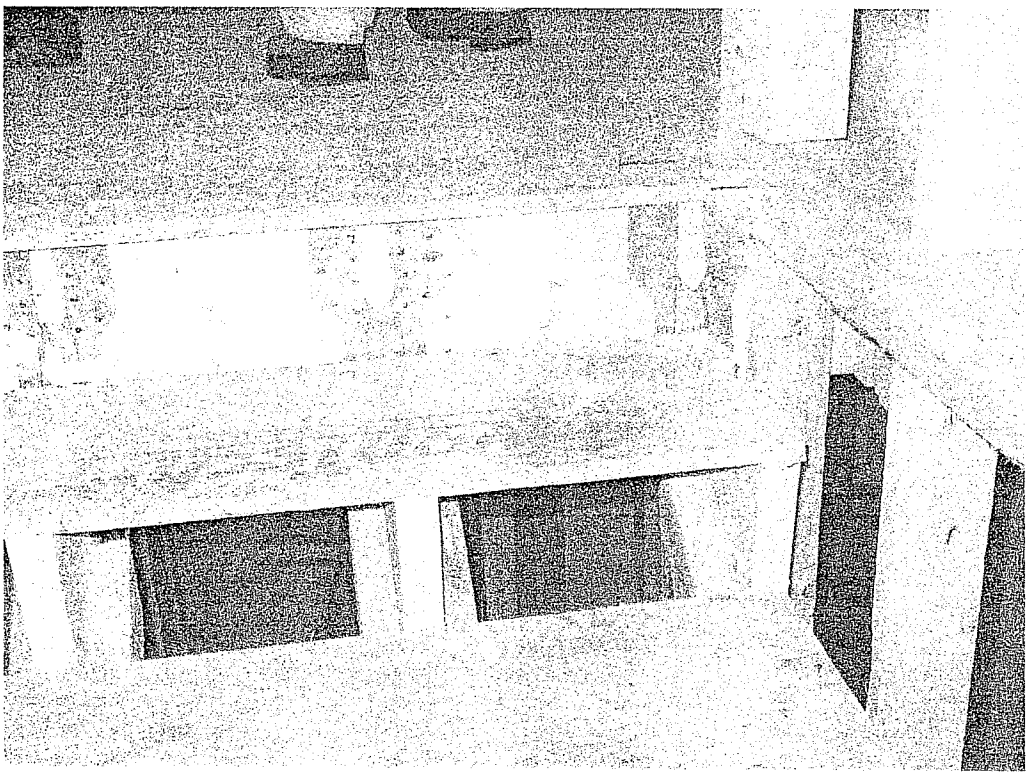

Photo # 3 – Simpson connectors at stringers.

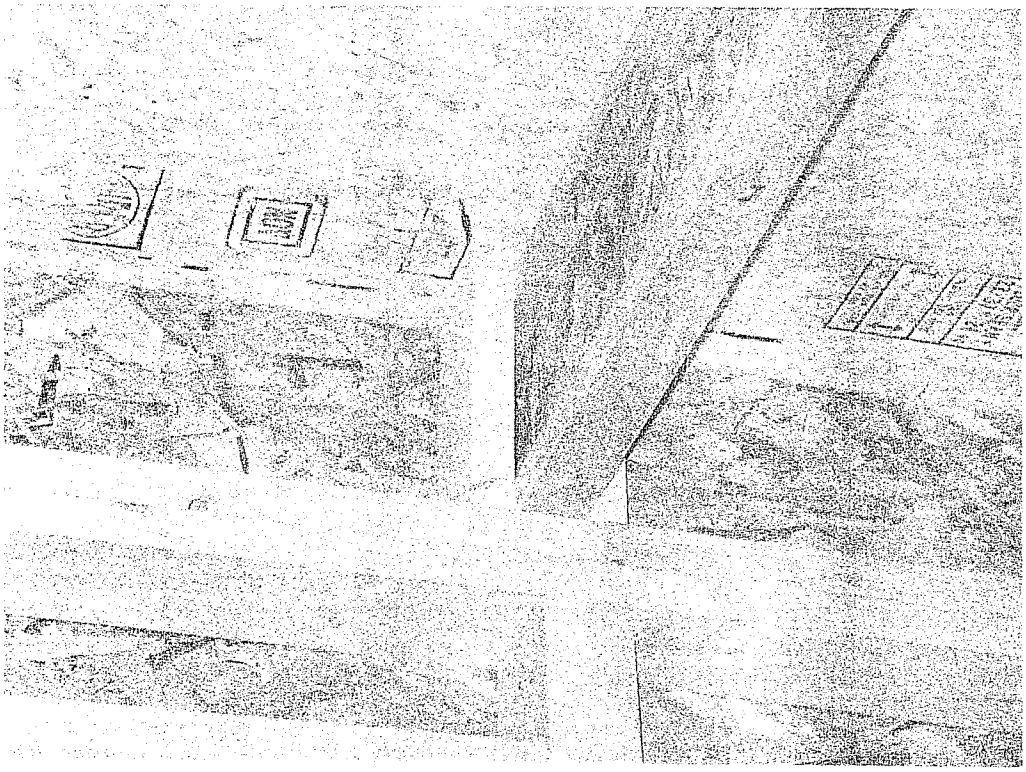

Photo # 4 – Compression blocking at each side of I joists transferring vertical wall loads.

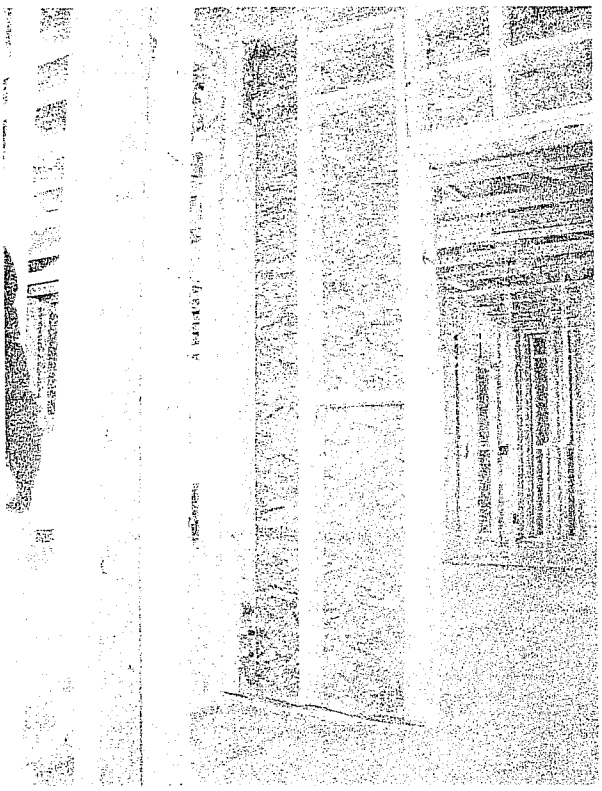

Photo # 5 – Hold down anchors at top and bottom of walls.

Photo # 6 – Horizontal blocking , providing support to shear wall panel edges.

pricestructural

From: pricestructural [pricestructural@maine.rr.com]
Sent: Sunday, March 16, 2008 6:41 PM
To: 'gls@shinbergconsulting.com'; 'Bill Cuddy'; 'Ryan Senatore'
Cc: 'Josh Cushman'; 'Dorian Sweeney'; 'pricestructural'
Subject: Sheridan - March 11 site visit

Greg - Please see attached site visit report and let me know if you have any comments or questions.

Regards,
David

David A. Price, PE
President
Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097
(Tel) 207-846-0099
(Fax) 207-846-1633

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: April 25, 2008
Time:

Weather: Clear
Temperature: 50 deg. F.
Contractor: Portland Builders
Site contact: B.Cuddy

Project Items to be Observed:

1. Exterior Decks
2. Additional Hold-Down Anchors

Field Observations / Project Status:

1. General – Porch decks are framed out however railings not started yet.

2. Joists that cantilever over beams were observed to have hold down Simpson anchors, however some nails missing.

3. At some post to cap connections, bolts were missing. Contractor said that these will be installed prior to the next site visit.

4. In general, based on observations made at accessible areas, primary framing sizes at porches appears to be in accordance with project construction documents.

5. Drywall under construction on the interior.

6. Spacing of fasteners for drywall at shearwalls appears to be as specified.

7. Bill and discussed the blocking to anchor the coil springs at the garage entry doors.

8. The 3rd – floor deck above the low roof has a post that lands on the roof itself (Northeast corner). Field measurements were taken to verify that the post lands on the Parallam beam below and not on a truss.

9. Hold-Down anchors at Grid AA walls were observed.

10. Threaded rod connecting hold-down anchors from floor to floor were also observed.

11. It was reported that exterior straps specified at the Grid AA walls were installed.

Items Needing Correction:

1. Add bolts to porch Simpson connectors at beam to column connections.

Items observed from previous site visit(s):

1. Wall panel needs framed lintel at 2nd floor grid N/2 to span over concrete wall opening. Rough opening sizes of equipment to be installed in opening must be obtained prior to installing lintel. See Architectural Elevation 1/A2.1 for wall elevation indicating wall opening at this area. Frame lintel opening using Type "L3" lintel (3 – 2x10's) per detail Schedule D5/S5.1 and detail D6/S5.1. Lintel is not scheduled to be installed until mechanical unit is installed.

Corrective action taken:

General:

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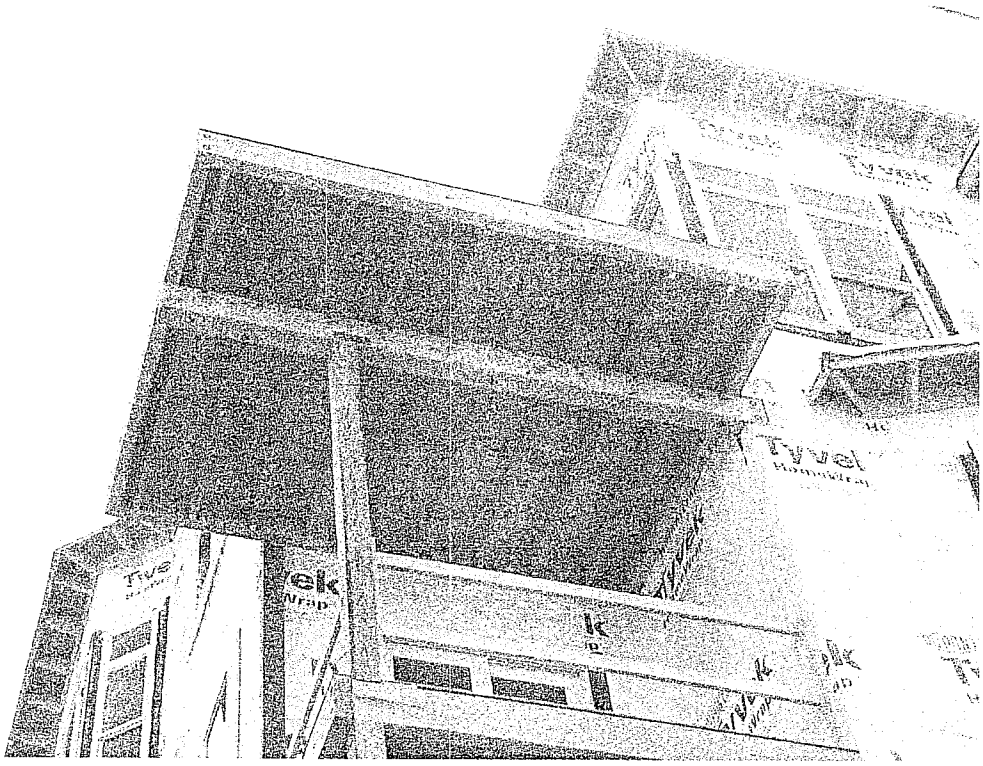

Photo # 1 – Top Floor Decks with Cantilever – Note 4x10PT at all railing supports

Photo # 2 – View from Sheridan Street

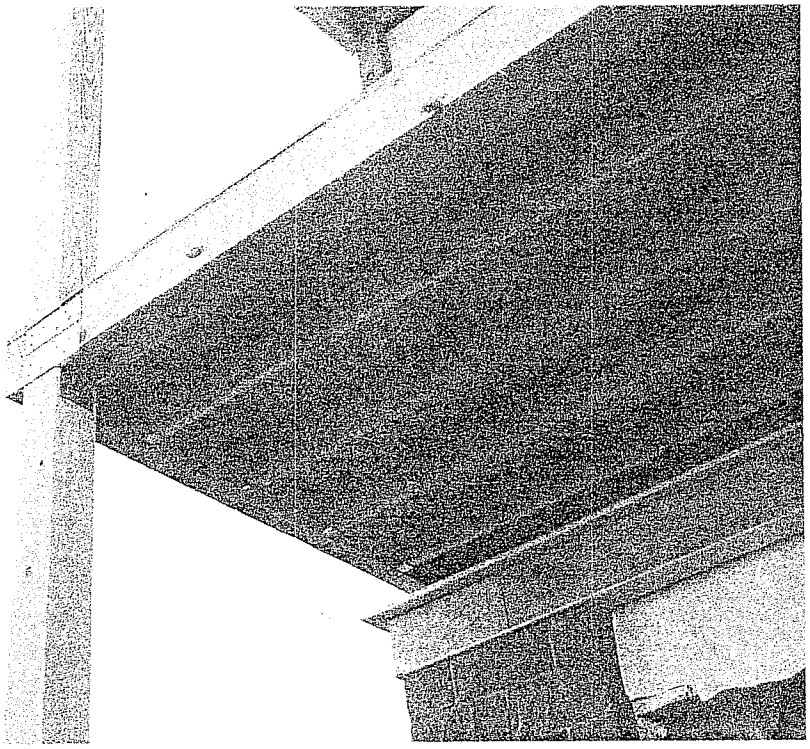

Photo # 3 – Lower level decks

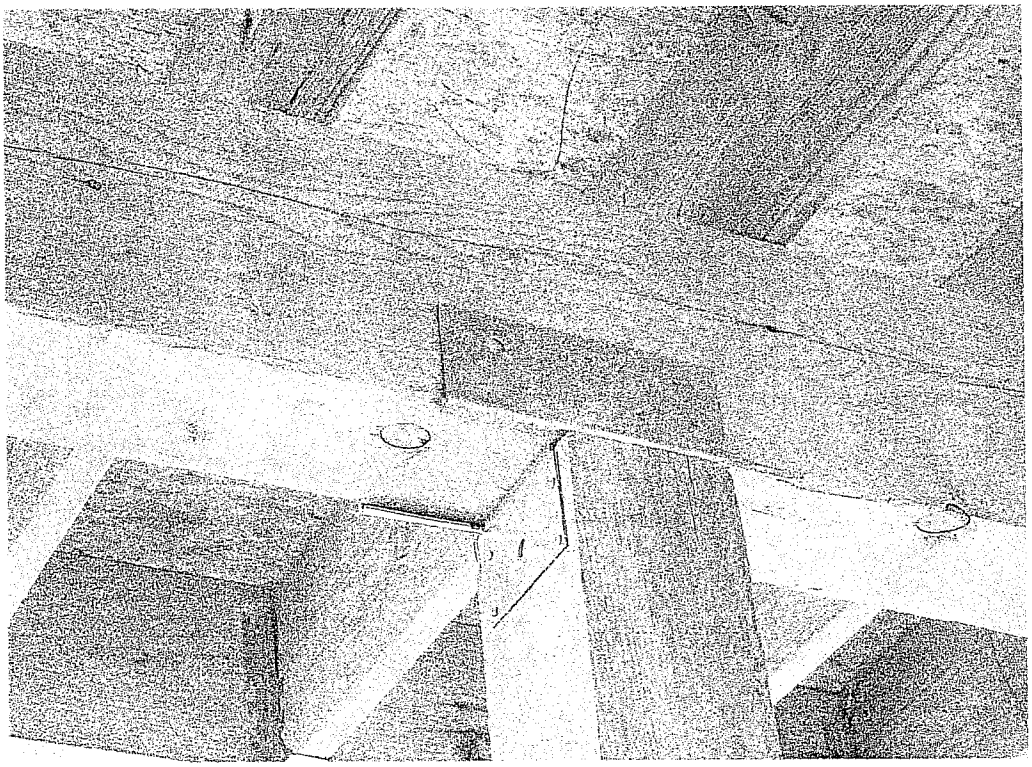

Photo # 4 – Post to Beam connection – missing bolts

Photo # 5 – Additional Hold Down Anchors near Sheridan Street

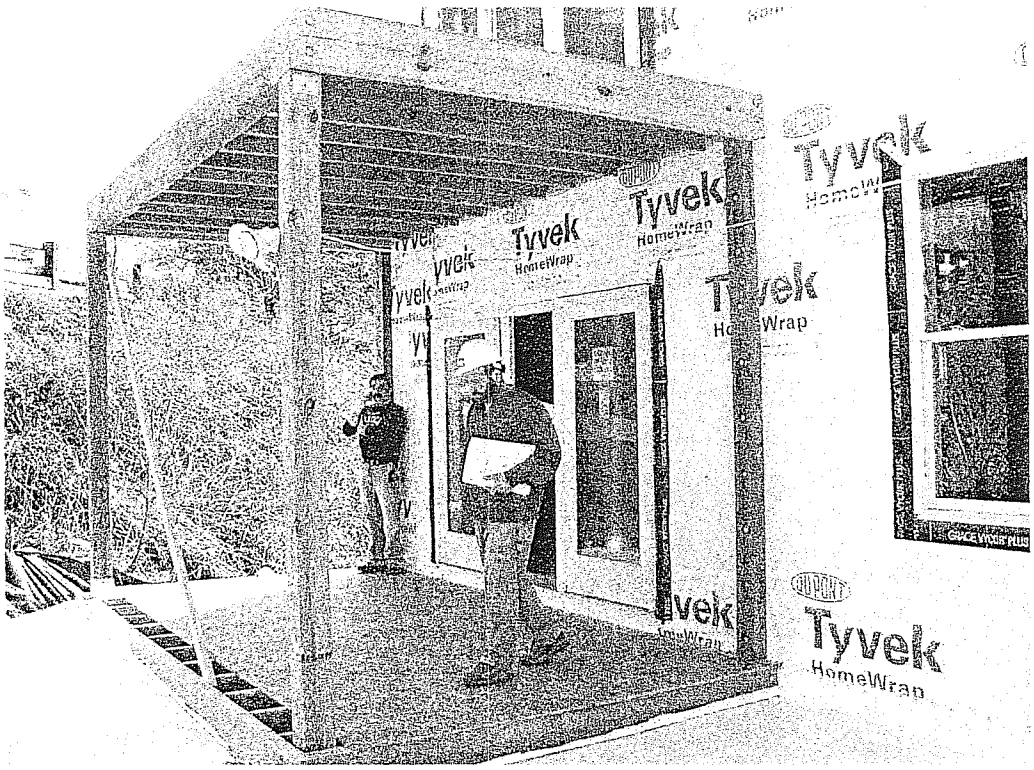

Photo # 6 - Deck above 2nd Floor roof (Post at Northwest corner was verified to be over beam support)

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: May 27, 2008
Time: 4:00 PM

Weather: Clear
Temperature: 50 deg. F.
Contractor: Portland Builders
Site contact: Tony

Project Items to be Observed:

1. Exterior Decks
2. Misc.

Field Observations / Project Status:

1. General – Porch decks are framed out however permanent railings not observed yet on most decks.
2. Siding, trim and other finishes are being added
3. The perimeter beams at porches that support railings are 4x10PT beams. This will provide good support for guardrails.
4. Sloped sleepers being added to some of the porch floors in preparation for decking.
5. Blocking at garage entrance and coil spring being installed.
6. Bolts added to porch column-to-beam Simpson connections.
7. Stair stringers, at upper ends, often have small Simpson hanger instead of THAI specified (see photo #6).

Items Needing Correction:

1. On Porch column to beam Simpson connectors with bolts, trim excess threads on bolt shanks that extend more than ½ - inch past end of nuts.
2. At bottom of 3rd floor deck located at Grid 8/G, southwest corner (reference photo #5 – viewed from 2nd floor), the second to last joist needs to have an A23 Simpson hanger on one side since there is no joist hanger at this location. Other deck joists with similar conditions, if found, should also be reinforced.
3. Stair stringers, at upper ends, often have small Simpson hanger instead of THAI specified (see photo #6). Therefore add continuous 2x3 ledger (rip bevel if needed to avoid interference with profile of architectural finishes) underneath the joist hangers and add (4) 16d nails into ledger below or adjacent to each stringer.

Items observed from previous site visit(s):

1. Wall panel needs framed lintel at 2nd floor grid N/2 to span over concrete wall opening. Rough opening sizes of equipment to be installed in opening must be obtained prior to installing lintel. See Architectural Elevation 1/A2.1 for wall elevation indicating wall opening at this area. Frame lintel opening using Type "L3" lintel (3 – 2x10's) per detail Schedule D5/S5.1 and detail D6/S5.1. Lintel is not scheduled to be installed until mechanical unit is installed.

Corrective action taken:

1. Bolts added at column to beam Simpson connections at porches.

General:

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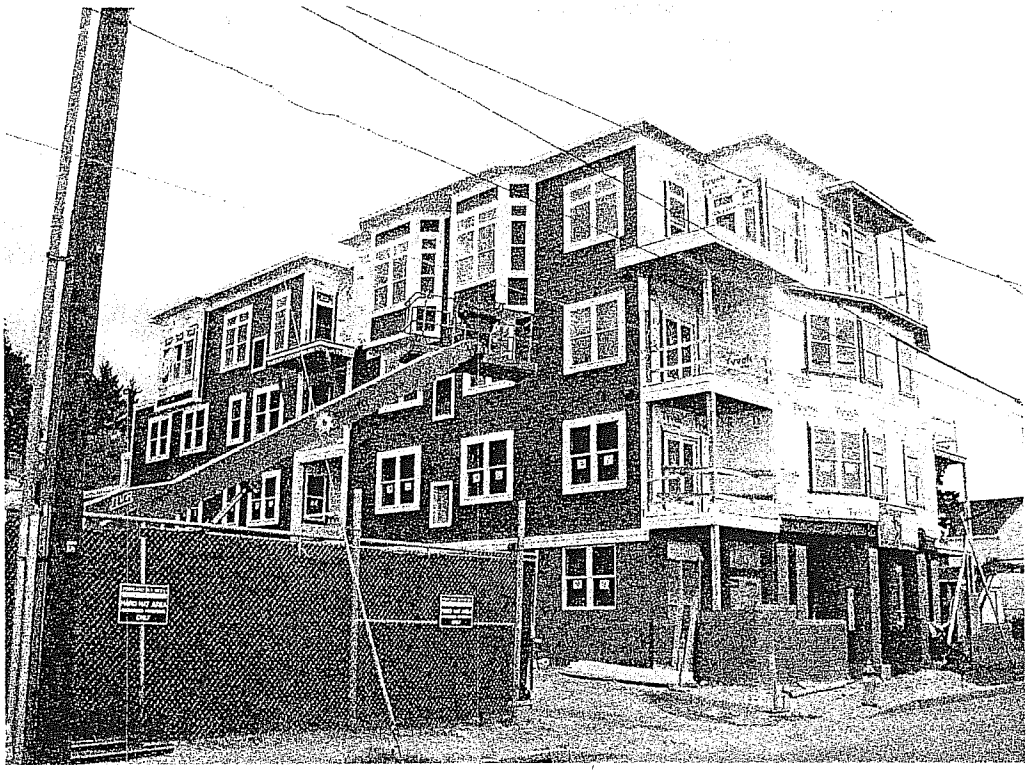


Photo # 1 – View looking south east.

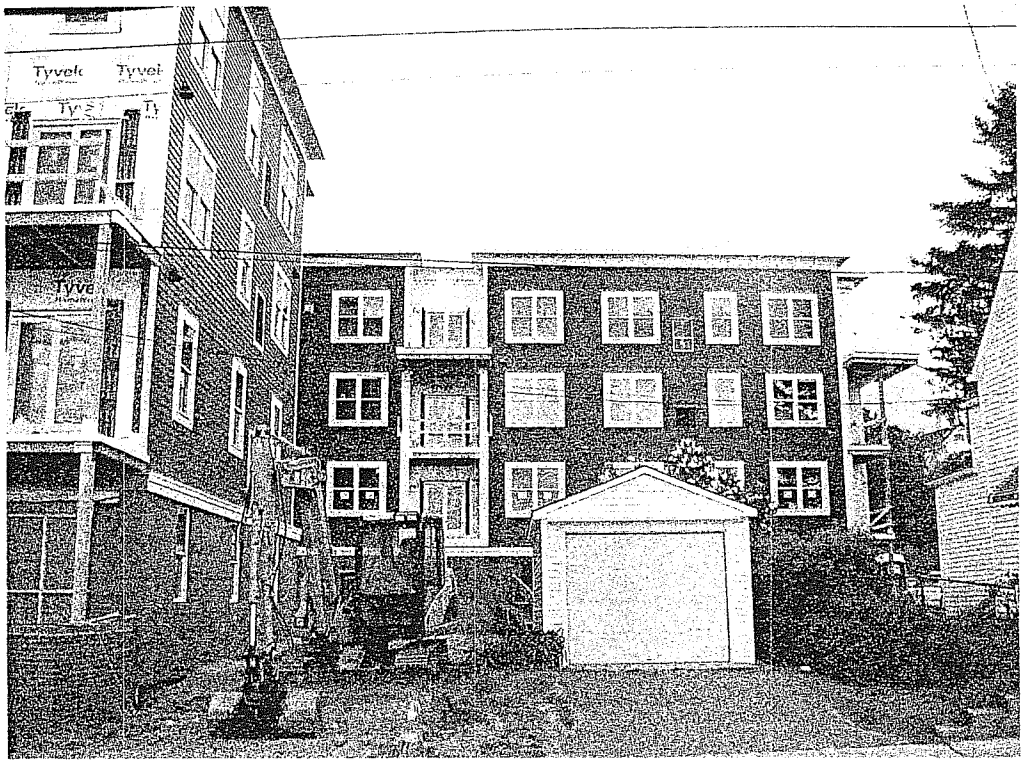


Photo # 2 – View looking east.

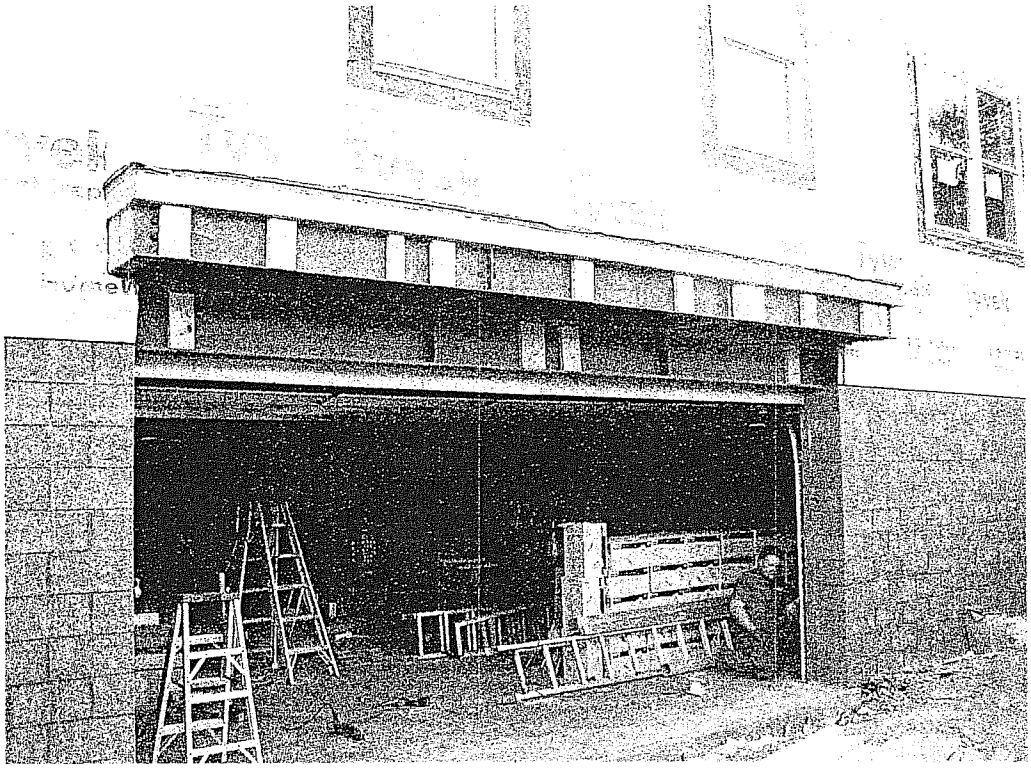


Photo # 3 – Blocking at Garage door entrance.

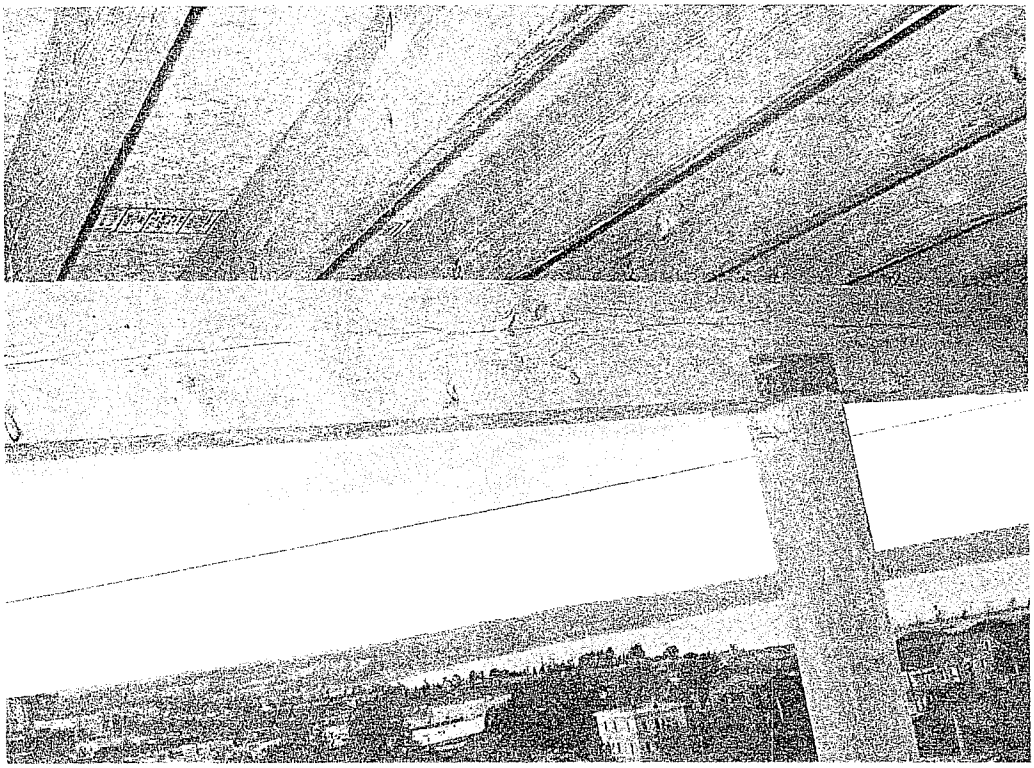


Photo # 4 - Note bolts at Column to Beam Connection. Also note Simpson connectors at Joists to Beam.

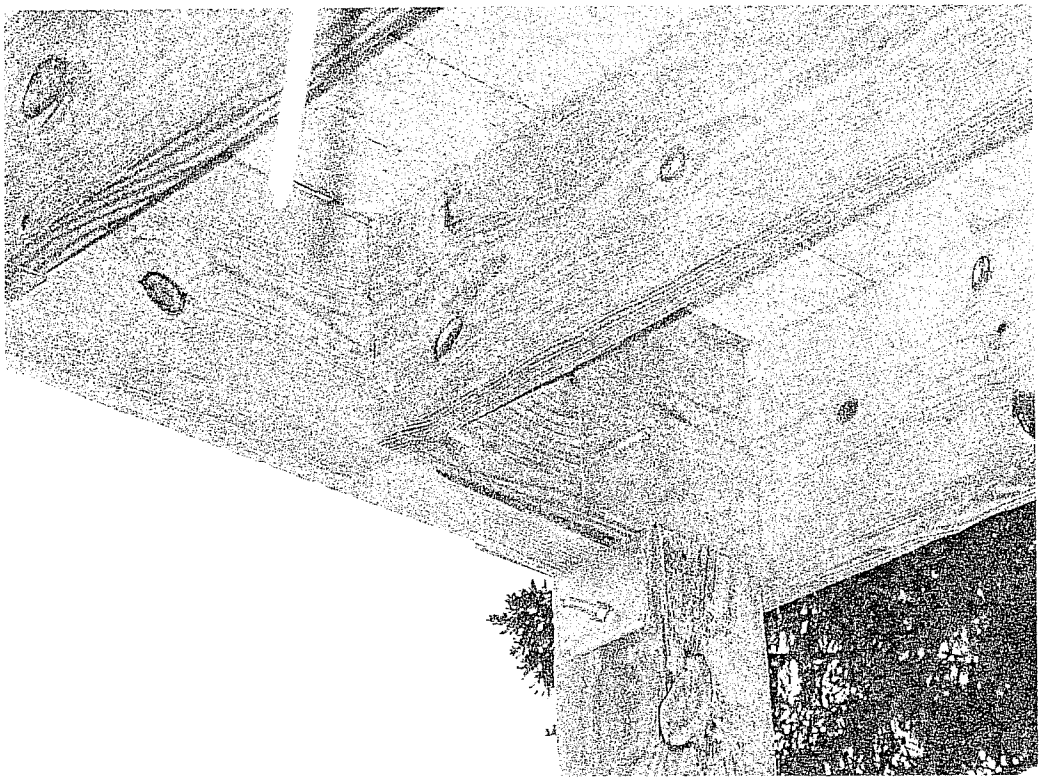


Photo # 5 – Bolt shanks too long. Also, second to last joist needs one sided Simpson Connector A23.

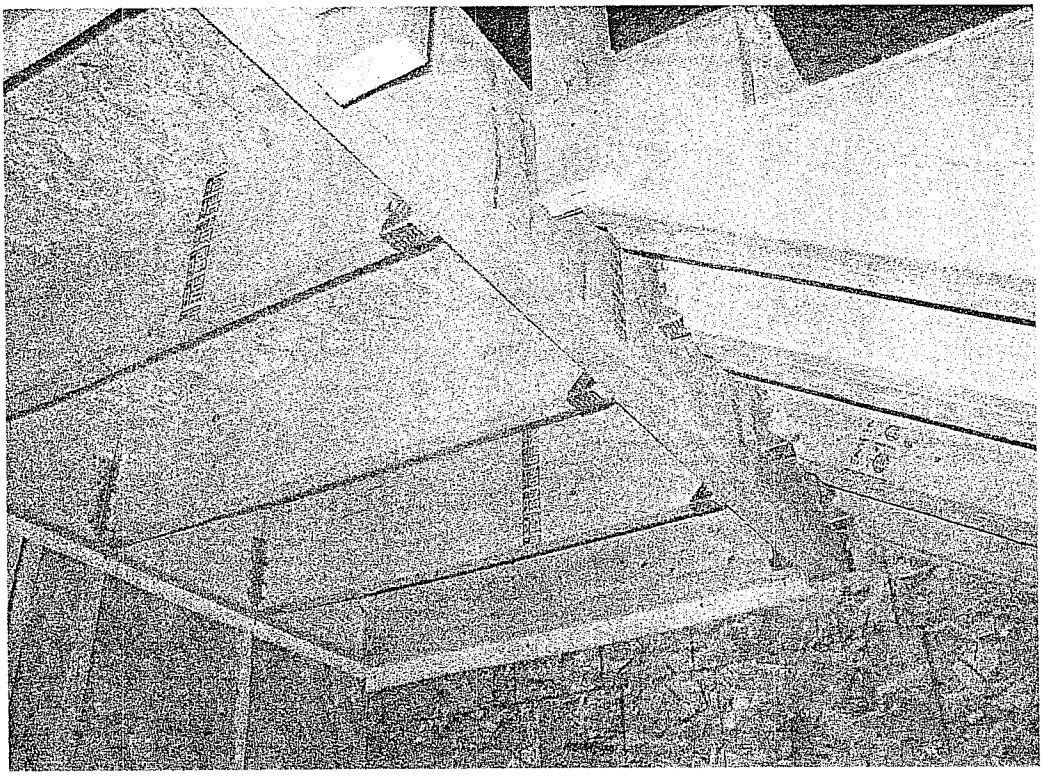


Photo # 6

FIELD OBSERVATION REPORT
Price Structural Engineers, Inc.

Project: Sheridan Heights
Location: Portland, ME
Date: Aug. 27, 2008
Time: 2:30 PM

Weather: Clear
Temperature: 75 deg. F.
Contractor: Portland Builders
Site contact: Tony Triglione

Project Items to be Observed:
Fourth floor porch at gridline 8/G.

Field Observations / Project Status:

1. See attached sketches SK-100 thru SK-104 indicating details for braces at fourth floor porches with cantilevers (three porch locations ultimately will contain these braces). Only one porch had a brace installed at the time of the site visit.

2. Without the brace the existing porches satisfy code requirements with regard to load and deflection however , it was noted that vibrations might be reduced by adding the brace. All three porches were checked it was found that the porch with the new brace had significantly less perceived vibration.

3. The counter-bored hole at grid line 8/G into the column was too deep and therefore a steel plate needs to be added onto the inside corner. This bent plate should be added to all three porches with the diagonal brace. The attached sketches have been updated and now indicate details with regard to this bent plate (seek clouded areas on sketches numbered SK-101 and SK-104). The bent plate was discussed during the site visit

4. The second lag bolt had not yet been added to the top of the 4x4 and will be added.

5. Tony and I discussed the importance that there be tight bearing at both ends of the brace. Tony said that he was able to preload the brace in compression during the brace installation.

6. The porch located at 8/G. also had a column which was too short and therefore it needed to be extended. See photo number 3.

Items Needing Correction:

Corrective action taken:

General:
The purpose of this site visit is to observe the project and generally become familiar with the progress and quality of the Contractor's work and to assess whether the work is proceeding in general conformance with the construction documents regarding the specific items listed within this report. The client has not retained Price Structural Engineers Inc. to make detailed inspections of every structural component, perform structural design or to provide exhaustive or continuous project review.

Price Structural Engineers Inc. shall not, during such visits or as a result of any observations of construction, supervise, direct or have control over Contractor's work nor shall Price Structural Engineers Inc. have authority over or responsibility

for the equipment, means, methods, techniques or procedures by the Contractor or health and safety precautions in programs incident to the work of the Contractor. Price Structural Engineers Inc. does not assume responsibility for Contractor's failure to comply with laws, rules, regulations or codes or the Contractor's failure to furnish and perform their work in accordance with the construction documents and does not guarantee the performance of the construction contract by the Contractor.

Report prepared by: David A. Price, P.E.
Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097

Distribution: Greg Shinberg, Shinberg Consulting LLC
Richard Lo, TFH Architects
Bill Cuddy/ Josh Cushman / Dorian Sweeney - Portland Builders
Tony Triglione - Portland Builders

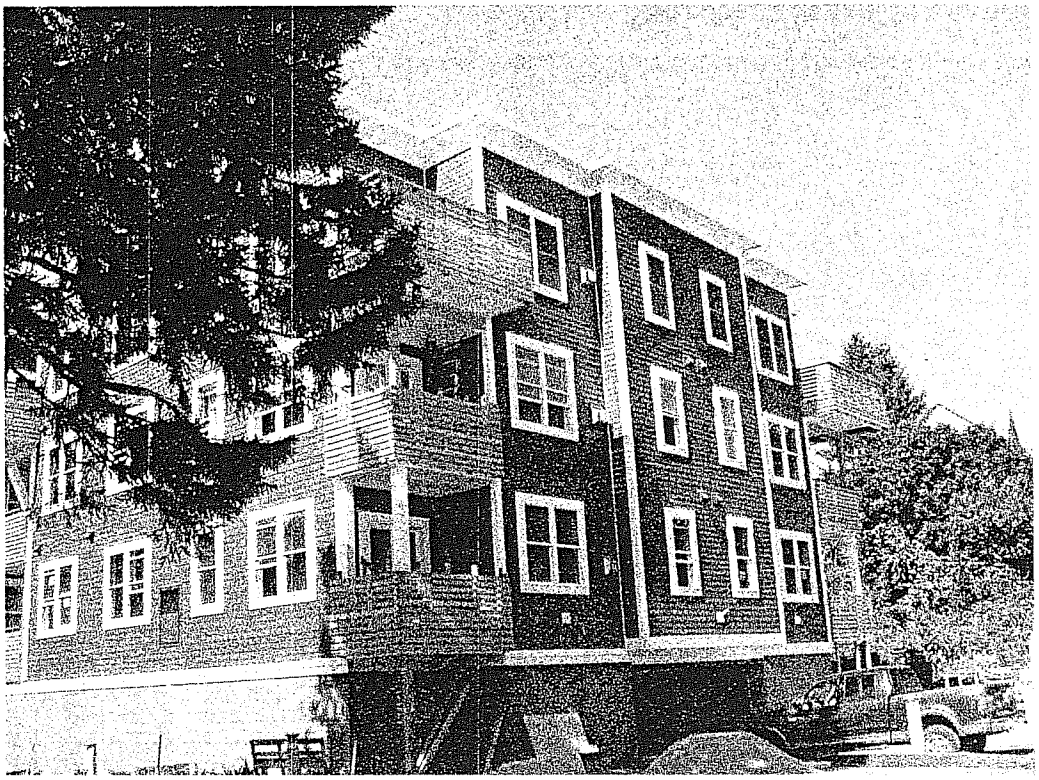


Photo # 1 – Overall view looking at and wall above garage entrance

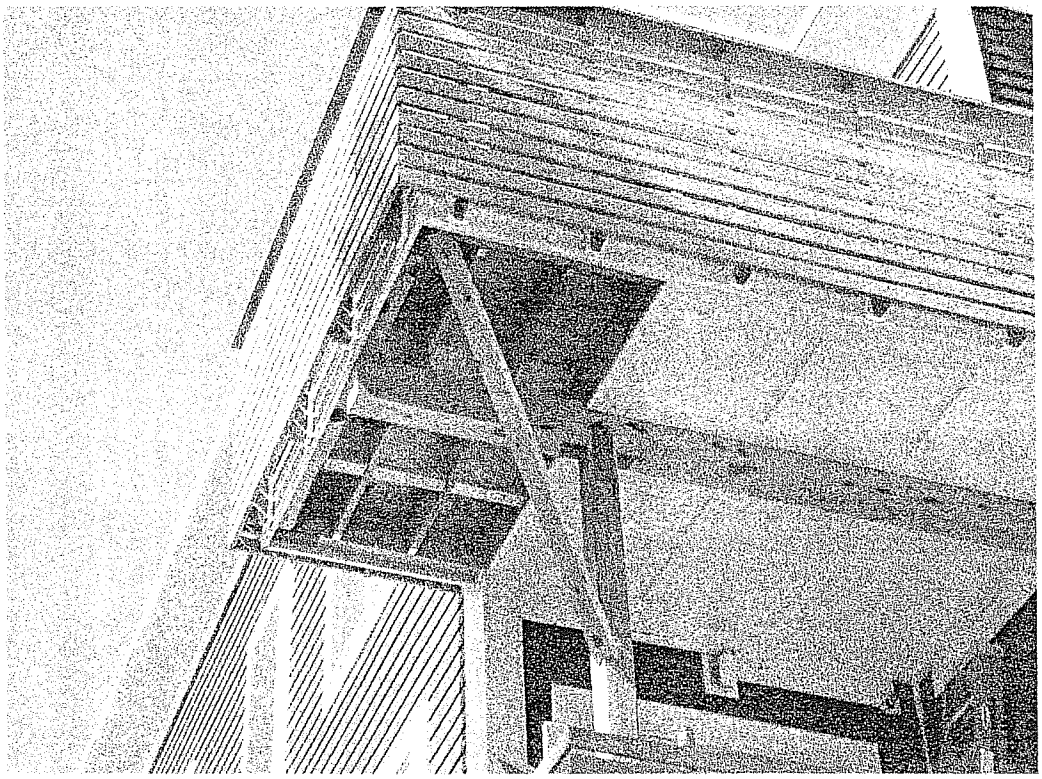


Photo # 2 – Diagonal brace at porch located on grid line 8/G.

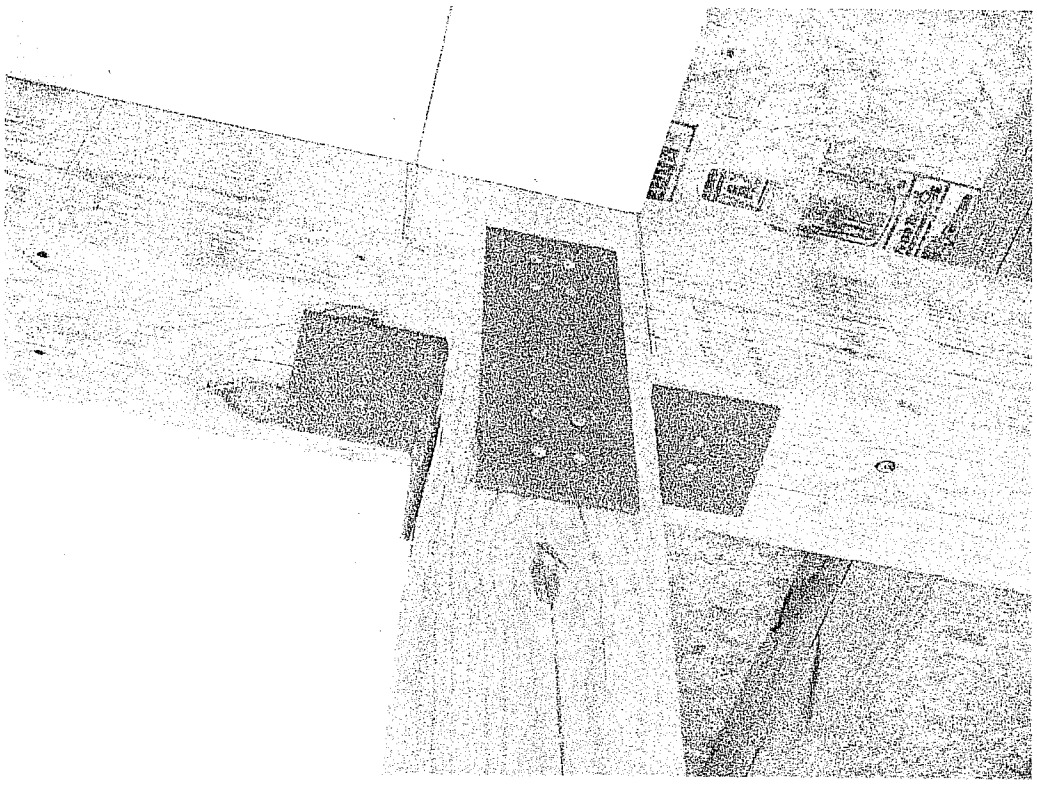


Photo # 3 – Existing column was too short at porch located at grid line 8/G –note column extension.

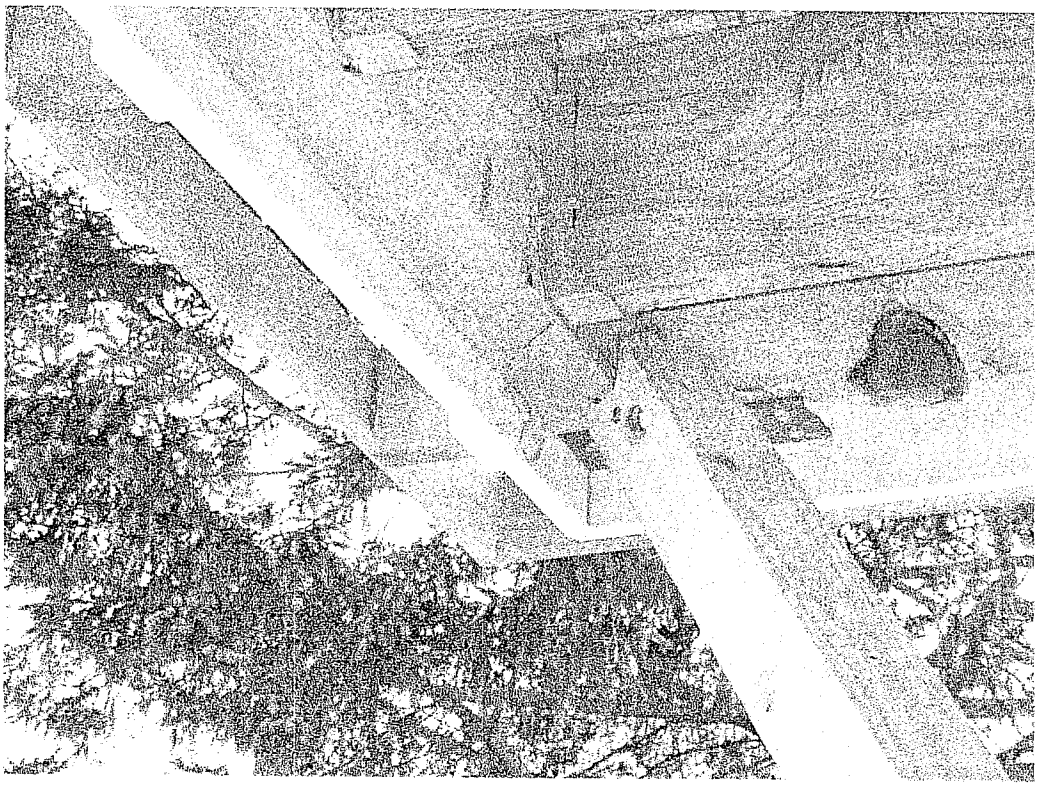


Photo # 4 – Top of diagonal brace (2nd bolt not yet installed)

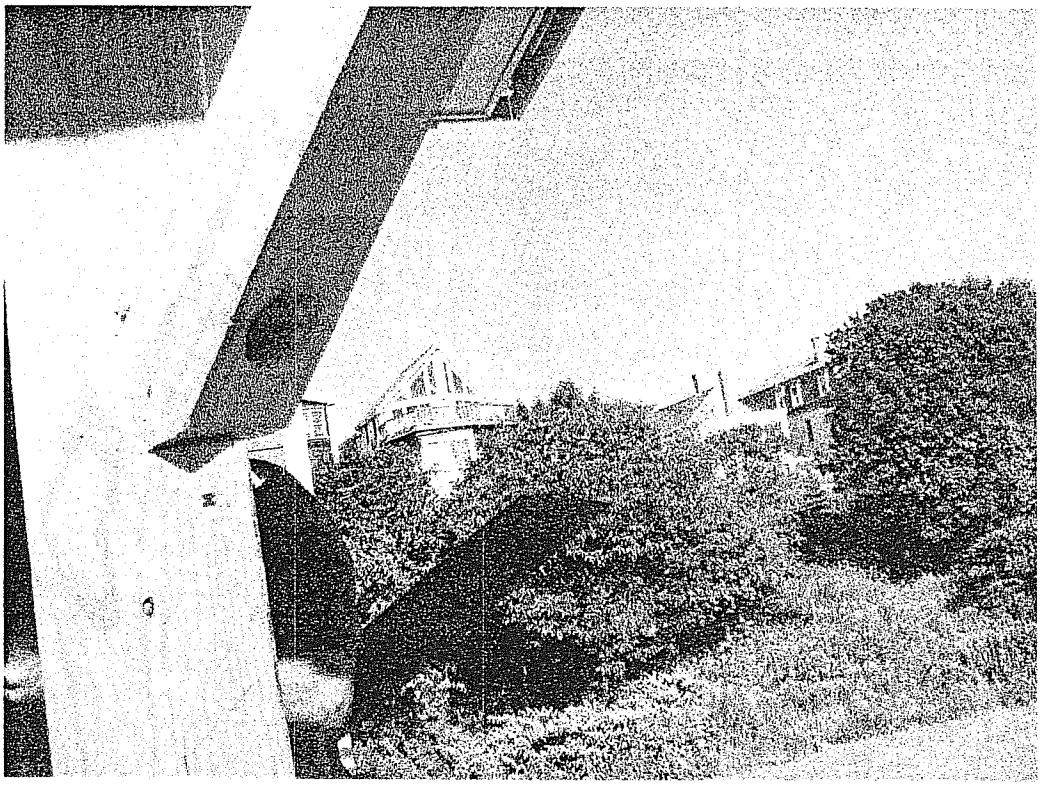
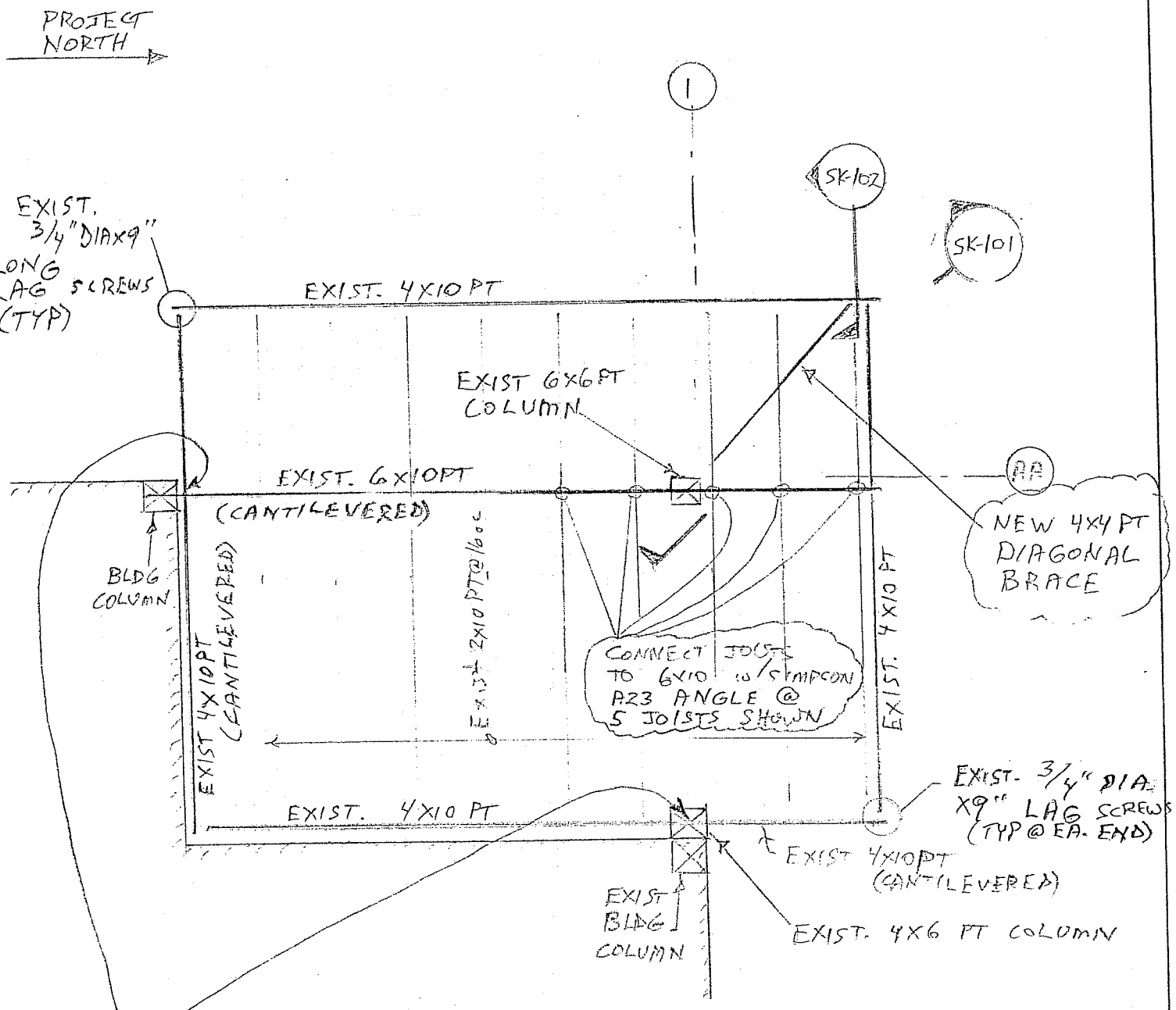


Photo # 5 – Bottom of brace.

Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097
Tel: 207-846-0099
Fax: 207-846-1633

Project:	Sheridan Heights
Subject:	4th Floor Deck Stiffening
Date:	7/8/08
Designed by:	DAP

SK-100
Sheet: 1 of 5
Job #: 112-07
Checked by:



ANCHOR EXIST. 4X10 PT (CANTILEVERED) TO EXIST BLDG COLUMN W/ (2) 3/4" DIA GALV. BOLTS (USE GALV. LAG SCREWS ONLY IF ACCESS DOES NOT EXIST).

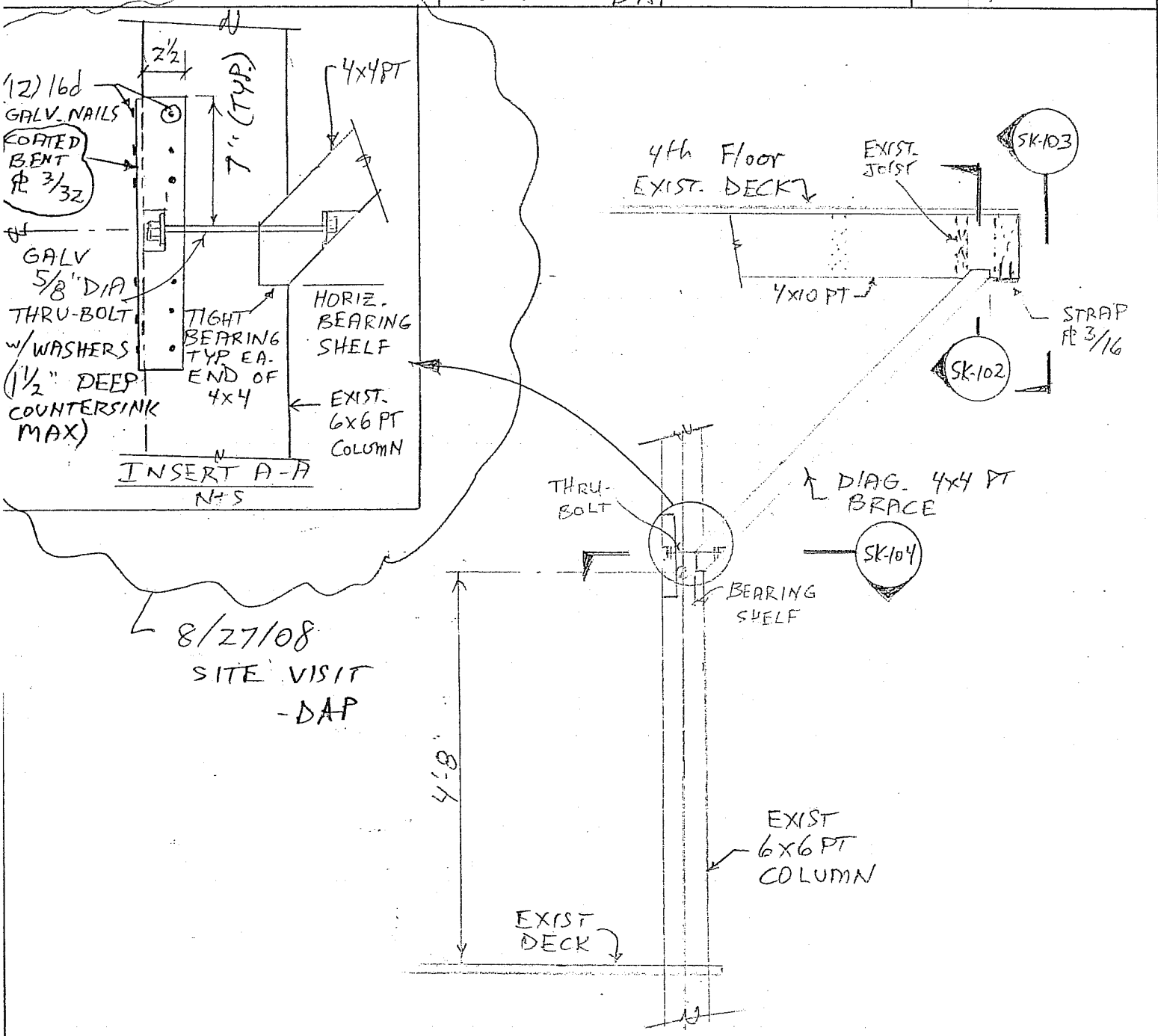
NOTE:
1. Deck @ grid AA/1 shown, other 4th floor corner decks @ grid & similar.

SK-100 — 4th FLOOR DECK BRACE - PLAN
3/8" = 1'-0"

Reference: Drawing S1-2 & Detail F2/S5.3

Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097
Tel: 207-846-0099
Fax: 207-846-1633

Project:	Sheridan Heights		SK-101
Subject:	4th Floor Deck Stiffening	Sheet: 2	of 5
Date:	7/8/08	Job #:	112-07
Designed by:	DAP	Checked by:	



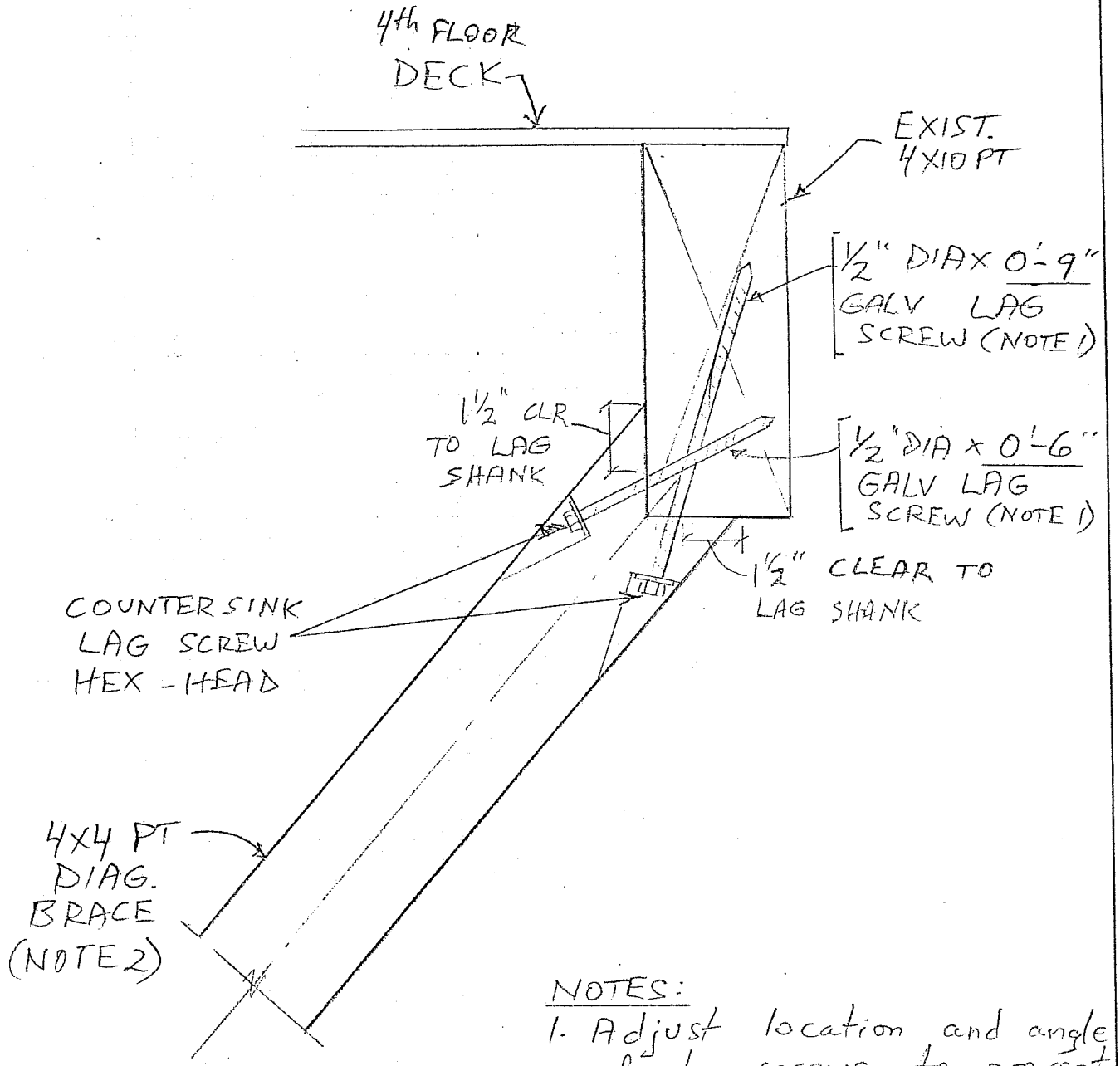
8/27/08
SITE VISIT
-DAP

SK-101 ELEVATION
½" = 1'-0"

Revised 8/27/08

Price Structural Engineers, Inc.
75 Farms Edge Road
North Yarmouth, ME 04097
Tel: 207-846-0099
Fax: 207-846-1633

Project:	Sheridan Heights		SK-102
Subject:	4th Floor Decks	Sheet: 3	of 5
Date:	7/8/08	Job #: 112-07	
Designed by:	DAP	Checked by:	



SK-102 SECTION
3"=1'-0"

NOTES:

1. Adjust location and angle of lag screws to prevent interference with other lag screws. Threaded portion of lag screws shall have 1/4" diameter pilot hole. Lag screw shank in 4x4 shall have 9/16" diameter hole.
2. Provide tight bearing @ each end of 4x4.

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North Yarmouth, ME 04097
Tel: 207-846-0099
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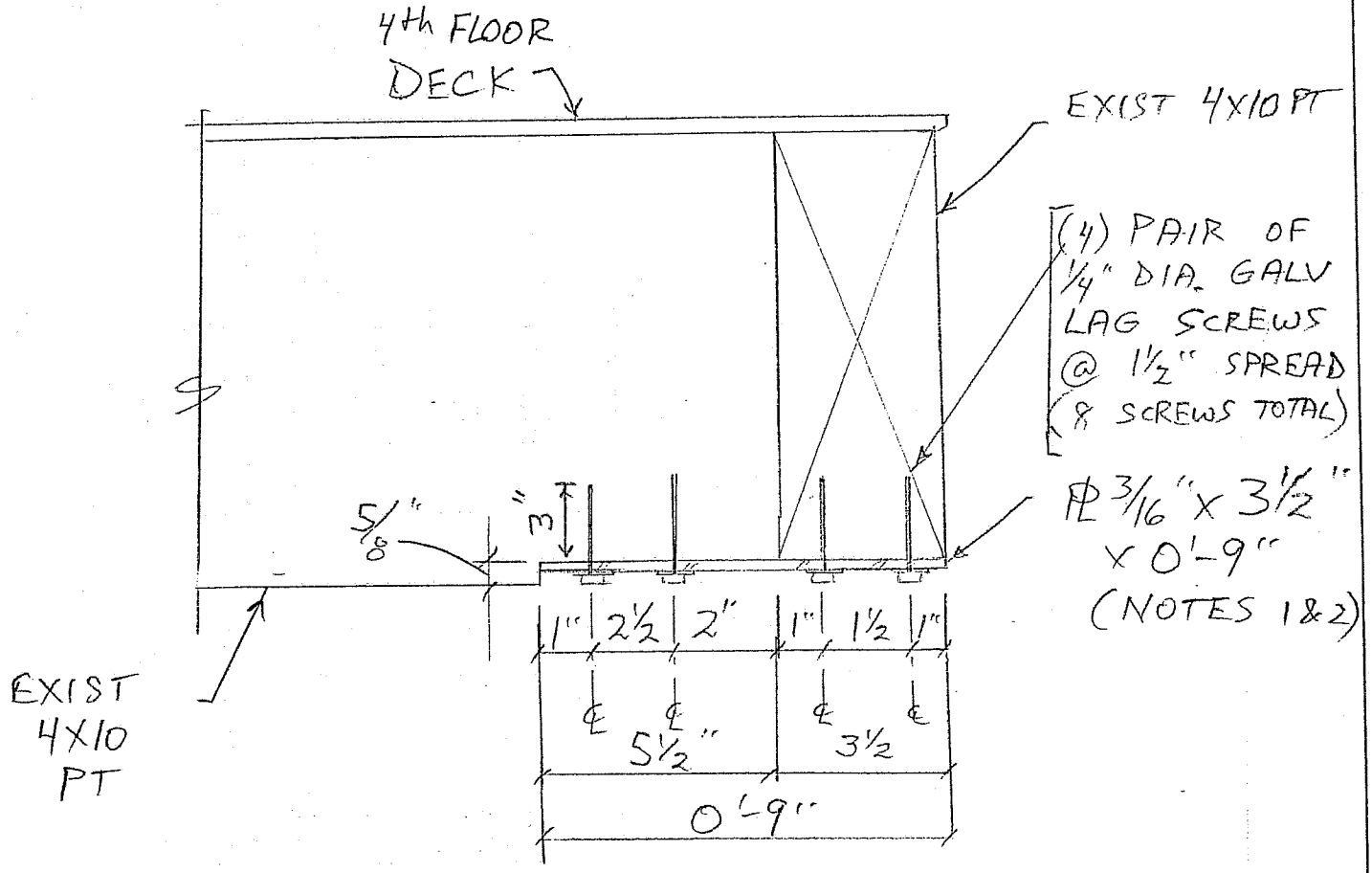
Project:	Sheridan Heights		SK-103
Subject:	4th Floor Deck	Sheet:	4 of 5
Date:	7/8/08	Job #:	112-07
Designed by:	DAP	Checked by:	



SK-103 SECTION 3" = 1'-0"

NOTES:

1. Coat steel plate w/ (3) Coats "Rust-O-Leum" Corrosion resistant coating (all sides).
2. Recess plate 5/8" into bottom of beam

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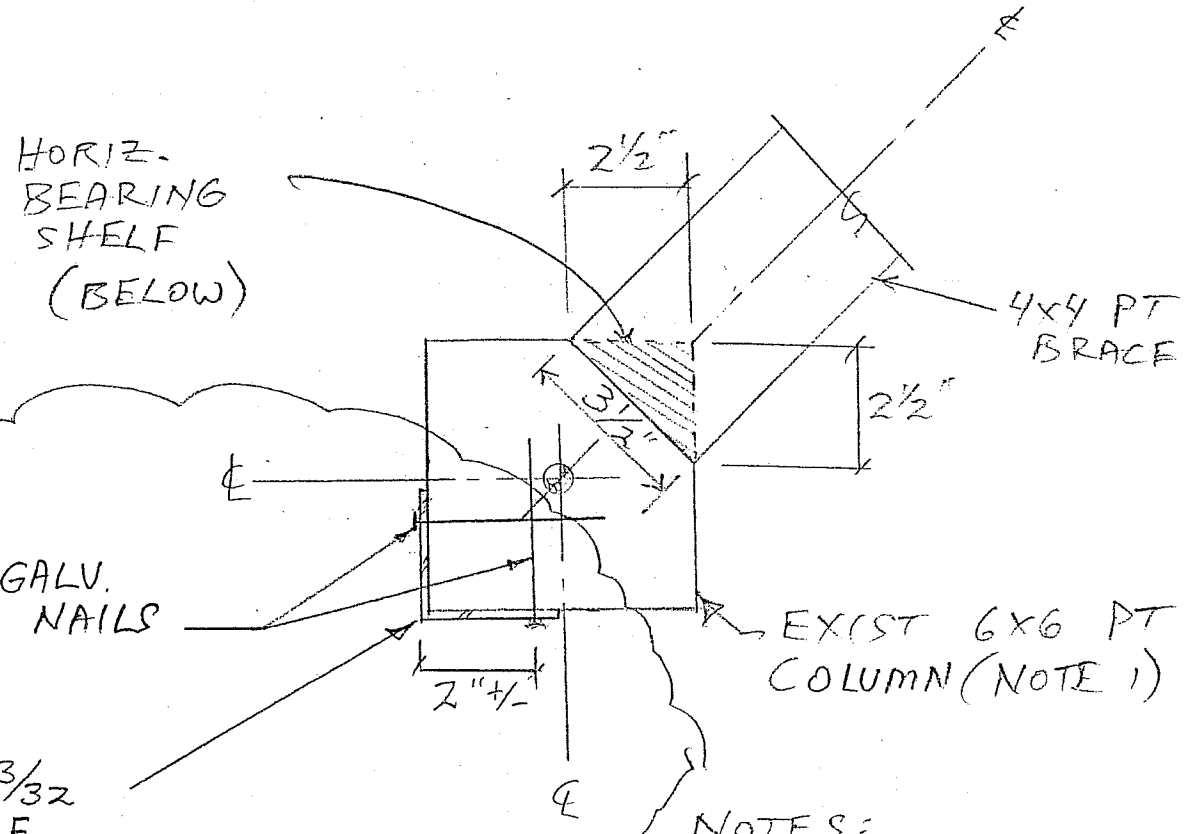
75 Farms Edge Road
North Yarmouth, ME 04097
Tel: 207-846-0099
Fax: 207-846-1633

Project:	Sheridan Heights		SK-104
Subject:	4th Floor Deck Stiffening	Sheet:	5 of 5
Date:	7/8/08	Job #:	112-07
Designed by:	DAP	Checked by:	



SK-104 PLAN 3"=1'-0"

NOTES:

1. Notch in existing column shall not exceed dimensions shown. Do not overcut.
2. Bolt not shown for clarity.
3. Bent PL 3/32 shall be coated with zinc-rich rust resistant coating (all sides)

As discussed during 8/27/08 site visit

Revised 8/27/08