

ADDENDUM NUMBER 1:
NEW HAMPSHIRE COOPERATIVE RECYCLING FACILITY
CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS

Issued: May 20, 2009
For Bids Due: May 27, 2009

A. GENERAL

The Sign-in Sheets from the Pre-Bid Meeting are attached for reference.

B. BIDDING DOCUMENTS

1. Special Conditions

- a. Add the following Paragraph to SC I in order to address potential additional costs associated with delays in award of the project:*

If the award of the project is delayed such that the Notice to Proceed is issued with a construction start date of August 17, 2009 or later, the Owner understands that pre-engineered metal building foundation and slab work may be required to be completed under winter conditions, and that a change order would be required to be negotiated to address winter conditions for this work. The bid proposal shall assume that special provisions for winter conditions of the pre-engineered metal building foundation and slab are not required.

- b. Add the following Paragraph to SC III to clarify that the Owner will be providing winter maintenance on the access roadway to the site.*

The Owner will be providing snow removal and other winter maintenance on the access roadway from Whitney Road to the facility driveway entrance. The Contractor is responsible for snow plowing, de-icing, and management of snow stockpiles at the site and driveway as necessary to complete the work.

- c. Revise SC VIII A) to Read as Follows to clarify the processing required for existing topsoil/loam:*

Strip existing topsoil materials from within the limits of work, screen and process all materials to meet the size and quality requirements for re-use as Type A loam as specified in Section 029300, Part C.1a. Materials necessary for construction shall be stockpiled at the site. Haul excess processed loam materials to the Franklin landfill site. Loam materials to be reused on site shall be amended to meet loam specifications as necessary to meet the project requirements.

d. *Revise the 2nd Paragraph of SC XVII to Read as Follows:*

All work performed on behalf of this project shall be constructed in accordance with the City of Concord's Construction Standards and Details, latest edition. Any difference between the Contract Documents and City of Concord's standards, shall be governed by the more stringent requirement. Contractor shall coordinate with the Engineer and City for all required inspections of delivered materials and visual and video testing of installed structures and pipe.

e. *Add the following Paragraph to SC XVII to clarify that the Owner is responsible for all permit and inspection fees.*

The Cooperative will be responsible for payment of all permitting and City and NHDES inspection fees required for completion of the work. The Contractor shall coordinate with the Engineer and Owner for determining required fee amounts and submittal of payment with the permit applications.

f. *Add the Following Special Condition SC XVIV – Asphalt Cement Adjustment to Read as Follows:*

XVIV. ASPHALT CEMENT ADJUSTMENT

Bid Item 28 – Pavement and Bid Item 29 – Porous Pavement shall be subject to price adjustment via the Change Order process if the monthly price for asphalt cement as furnished by the NH Bureau of Materials and Research at the time of installation differs from the base price of \$505.00 per ton. The monthly price of asphalt is furnished on the first business day following the 14th calendar day of each month.

The price adjustment will be based on the percent of virgin asphalt cement stated in the approved mix design containing the maximum percentage of reclaimed asphalt pavement. The price adjustment will be applicable to the binder and wearing courses of pavement, and the 4-inch porous pavement.

The price adjustments, upwards or downwards, to be incorporated via change orders will be based on the following calculation:

Adjustment = [Monthly Price at Installation – Base Price (\$505.00)] X [Approved Mix Design % of virgin asphalt cement] X [tons of pavement installed]

2. Bid Proposal

a. *Eliminate Item 18 – Process Building Sprinkler System*

A bid price for the Process Building Sprinkler System is not required. Final design of the process building sprinkler system will be based on information that is not yet available, including locations of processing equipment, platforms, concealed spaces, etc. The Cooperative anticipates negotiating a change order for the design and installation of the process building sprinkler system once the equipment design is complete. Item 17 – Office Plumbing and Sprinkler System shall include providing a cap on the riser pipe for the connection of the dry-sprinkler system.

C. TECHNICAL SPECIFICATIONS

1. Section 001500 Measurement and Payment

a. *Add the following Paragraph to Item 6 – Process Building Foundation, Concrete Walls and Slab to clarify that the slabs and or walls depicted for the outdoor glass processing area are not in this contract.*

This item does not include completion of exterior concrete slabs or concrete walls associated with the proposed glass processing area or glass storage bunkers that are depicted on the Drawings. The requirements for supplemental concrete work to support the glass processing equipment and storage of materials, will not be finalized until the processing equipment design is complete. A change order is anticipated to be negotiated with the Contractor for the completion of the additional concrete foundation, walls and slabs work.

b. *Eliminate Item 18 – Process Building Sprinkler System*

c. *Add the following Sentence to Measurement of Item 17 – Office Plumbing and Sprinkler Systems:*

This item shall also include providing a cap on the sprinkler service riser for future connection to the Process Building Sprinkler System.

d. *Revise Payment for Item 19 – Process Building and Main Electrical Work to Read as Follows:*

PAYMENT: Payment for this item will be full compensation for all labor, materials, and equipment required to provide riser, underground primary power, installation of the transformer, transformer vault and pad, underground secondary power to the

electrical room, process building power panel and breakers for future connection to Motor Control Center and future distribution lines in the Process Building, submetering, fire alarm pull stations and emergency lighting, building interior lighting, exterior wall pack lights, process building sign lighting, connections to exhaust fans, sectional doors, dock levelers and restraints, exterior building and door lighting and other appurtenant work for a fully functioning electrical system in the process building in full conformance with the Drawings and Specifications.

This item does not include purchase of the transformer from Unitil. The Owner will be making arrangements for the procurement and delivery of the required transformer. The item does not include connections to the motor control center or other distribution connections to processing equipment. It is anticipated that this electrical work would be completed through a negotiated change order once the equipment design is finalized.

2. Section 010510 Grades, Lines, and Levels

a. *Revise Part 3.01 A to Read As Follows:*

A. Construct all Work under this Contract in Compliance with the alignments indicated on the Plans. Upon written request to ENGINEER by CONTRACTOR, Engineer will provide electronic coordinate data and/or cadd files (Autocad v. 2005) of the proposed site and utility layout and grading plans for CONTRACTOR'S convenience and use.

3. Section 022200 Excavation

a. *Revise the 2nd Sentence of Part 3.02.D.2 to Read as Follows:*

The subgrade in these areas should be proof-rolled and compacted to 95 percent of its maximum dry density per ASTM D1557 prior to placing structural fill or base and subbase materials.

4. Section 022310 Select Aggregates

a. *Revise the gradation requirements in Part 2.01B to Read as Follows:*

<u>Square Opening Sieve</u>	<u>% Passing by Weight</u>
3/4 "	90 - 100
3/8 "	20 - 55
#4	0 - 10
#8	0 - 5

5. Section 024130

a. *Revise Part 3.2.C.1 to Read as Follows:*

1. Set catch basin and manhole frames over the center of the opening. Manhole frames shall be set no less than 1/8" lower or no more than 1/4" lower than finish pavement grade. Catch basin frames shall be set no less than 1/8" or no more than 1/2" lower than finished pavement grade. A minimum of 2 courses of brick are required under the structure frame. The use of barrel blocks and concrete grade rings are not permitted. Catch basin frames shall be set flush against the curb line.

6. Section 025420 Bituminous Pavement

- a. *Add the Following Sentence to Part 3.02.B*

A tack coat of emulsified asphalt shall be applied to all lifts of pavement immediately prior to placement unless waived by the Engineer and City. The rate of application shall be between 0.02 and 0.05 gal/SY, as determined by the City and Engineer. Prior to application of the tack coat, the asphalt binder surface shall be cleaned to the satisfaction of the Engineer and City. The use of a street sweeper may be required depending on the cleanliness of the surface.

7. Section 026010 Sewer Manholes, Covers and Frames

- a. *Revise Part 3.2.F.2 to Read as Follows:*

2. Set manhole frames over the center of the opening and are to be set no less than 1/8" lower or no more than 1/4" lower than finish pavement grade. A minimum of 2 courses of brick are required under the structure frame. The use of barrel blocks and concrete grade rings are not permitted.

8. Section 026110 Ductile Iron Pipe and Fittings

- a. *Revise Part 1.5.C to Read as Follows:*

- C. All piped shall be stacked on 4"x4" timbers in tiers with chocks nailed at each end to prevent movement. After approval of the pipe and fittings by the City and Engineer, Contractor shall provide a water tight seal at both ends of the pipe, with a minimum 1.5 mil polyethylene plastic wrap.

- b. *Revise Part 2.1.A.1.a to Read as Follows:*

- a. All ductile iron pipe 3" to 10" shall be pressure class 350. All ductile iron pipe greater than 10" diameter shall be Class 52. All pipe shall be "Tyton" or push on joint.

- c. *Add Part 3.1.B.15 to Read as Follows:*

15. No pipe trench shall be left open at the end of each work day.

d. Revise Part 3.1.F.1 to Read as Follows:

1. Joint Deflection of Ductile Iron Pipe is not acceptable.

9. Section 029400 Planting

a. Delete Part 1.01 D in its Entirety.

b. Revise Part 1.04.A.2 by Replacing “Silva Cell” with “Bioretention Cell”.

c. Delete Part 1.07.D in its Entirety.

d. Revise Parts 3.01 K and L to Indicate “Owner” instead of “City”.

10. Add the Attached Section 029500 Granite Curbing to Division 2 of the Technical Specifications.

11. Section 072119 – Foamed In Place Insulation

a. Revise Article 2.01 to Read as Follows:

1. BASF Polyurethane Foam Enterprises LLC; Product: Walltite
2. Baysystems; Product: Bayseal CC
3. Corbond Corporation; Product: Corbond Performance Insulation System
4. Certainteed Corporation; product: Certaspray Closed Cell
5. Substitutions: See Section 016000 – Product Requirements.

b. Add Part 3.03.E to Read as Follows:

E. Provide at locations as indicated on the drawings as “spray foam insulation”.

12. Section 072119 – Signage

a. Add Part 2.01.2 and 2.01.3 to Read as Follows:

2. Welch Architectural Signage
3. Substitutions: See Section 016000 – Product requirements.

13. Section 074213 Metal Wall Panels

a. Add Paragraph G. to Part 2.02 to Read as Follows:

G. Provide metal panel profiles as follows:

- a. S16 at Vertical Metal Panel 1 at Office Building
- b. Provide metal panel profile XAB-16, Horizontal Metal Panel 1 at Office Building

- c. Provide metal panel profile XAB-16, Horizontal Metal Panel 1 at Scale Building, color: Mission Red. Provide complete system with window, door, eave and corner trim to match.

14. Add the Attached Section 078400 Firestopping to Division 7

15. Section 088000 Glazing

- a. *Add Part 2.01.D and E to Read as Follows:*
 - D. Type S-4 Decorative Safety Glazing.
 - 1. Provide this glazing in glazed lites for Doors 105, 202 and 215A.
 - E. Decorative Safety Glazing.
 - 1. Comply with 16 CFR 1201 test requirements for Category II.
 - 2. Provide Lumicor Recycled Glass, Mixed Bottles, 1/4" gauge minimum and as required.

16. Section 105100 Locker

- a. *Add Parts 2.01.3 and 4 to Read as Follows:*
 - 3. Scranton Products
 - 4. Substitutions: See Section 016000 – Product requirements.

17. Section 130460 Scale House Office

- a. *Revise Part 1.01 B to Read as Follows:*
 - B. Customize to include the window and door locations as indicated on the Construction Drawings. Wall Panels shall match the panels of the proposed recycling facility office, as specified in Section 072413
- b. *Revise Part 2.01 D to Read as Follows:*
 - D. Exterior wall shall be 8' high with R-11 insulation and vapor retarder. Wall panels shall be as specified in Section 072413.

18. Section 132000 Metal Building and Canopy Roofs

- a. *Revise Part 1.02 E to Read as Follows:*
 - E. The internal clearance within the building shall be no less than 33' when measured from finish floor elevation to the bottom of the rigid frame. Final eave elevation (including purlins and metal decking)

shall be 39', as indicated on the Architectural Drawings.

b. *Revise the 1st Paragraph of Part 1.04 D to Read as Follows:*

D. In meeting the requirements of the IBC 2006, as updated, the following live loads should be used. Where the following may differ from the minimum requirements per IBC 2006 or City of Concord Building Codes, the more stringent shall apply.

b. *Revise Part 1.05 C to Read as Follows:*

C. Metal Building Manufacturer shall maintain product liability insurance with a minimum per incident and aggregate policy limit of \$1,000,000. Proof of insurance shall be provided to Engineer.

c. *The Pre-Engineered Metal Building Roof Panels shall be the Manufacturer's standard standing seam roof panel meeting the requirements of Part 2.01 H, and painted as indicated on the Drawings. Metal Roof Panels specified in Section 074113 shall be for the office building only.*

d. *Add Part 2.01 H.9 and 10 to Read as Follows:*

9. Provide roof panels with a length to include a single horizontal seam. An additional single roof panel seam will be allowed at the canopy extension. Seam should be at or beyond eave extension.

10. Provide manufacturer's warranty for weather tightness of roofing system, including agreement to repair or replace roofing that fails to keep out water within specified warranty period of 20 years from the date of Substantial Completion.

e. *The Pre-Engineered Metal Building Wall Panels shall be Manufacturers standard wall panel meeting the requirements of Part 2.01 I, and painted as indicated on the Drawings. The Metal Wall Panels specified in Section 07423 shall be for the office and scale house only.*

f. *Revise Part 2.01 H.4 to Read as Follows:*

4. The covering width and configuration of the panel shall be the building manufacturer's standard provided all design criteria including deflection are met or exceeded. Exposed fastener panels are acceptable.

g. *Add Part 2.01 H.8 to Read as Follows:*

8. Provide manufacturer's warranty for weather tightness of wall system, including agreement to repair or replace wall panels and seals that fails to keep out water within specified warranty period of 20 years from the date of Substantial Completion.

19. Section 164010

- a. *Delete "Temporary Lights and Power from Part 1.03 Work of Other Sections", as the electrical contractor will be responsible for completion of this work as described in Part 1.09.*
- b. *Revise the 2nd Sentence of the Second Paragraph of Part 1.05 to Read as Follows:*

Contractor shall apply for all applicable permits and licenses and coordinate for inspections. Owner shall pay for all applicable fees.

- c. *Add the following paragraph to Item 2.40 - Main Electrical Service Switchboard:*

The Contractor shall include the provision of a breaker coordination study that will provide the proper settings for all breakers installed in the Main Electrical Service Switchboard. This is to insure that all breakers are set in a manner that will minimize the extent of any shutdown of equipment under overload or fault conditions, including ground faults. The report shall be provided by an Engineer duly licensed to practice in the State of New Hampshire. The Contractor shall set the breakers based on the study.

- d. *Revise the 2nd Paragraph of Item 2.17 to Read as Follows:*

All costs chargeable by the utility company for the service shall be paid for by the Owner, including the line extension costs. Utility is providing and installing the transformer unit. Contractor shall provide the vault and transformer pad and all secondary electrical connections.

D. CONSTRUCTION DRAWINGS

1. Drawing C-3 and L-1

- a. Include an additional 5' x 5' section of concrete pavement as shown on the attached Sketch CSK1 to adjust the sidewalk area to coordinate with the columns of the canopy roof over the door entrance to the office.

2. Drawing C-4

- a. The proposed trench drain shall be continuous from the retaining wall at

the loading dock, under the stair and to the end of the paved trailer storage spaces. The system shall consist of 13 9-foot sections as indicated on the Detail L on C-8 and include an integral catch basin to direct flow to CB#2.

3. Drawing L-1

- a. Add a Stormwater Drip Capturing Line to the southeast corner of the processing building. 6-inch drain pipe shall discharge as a solid walled pipe into the 18-inch CPE with a service saddle.
- b. Revise the note for the Stormwater Drip Line at the southeast corner of the processing building to indicate “Daylight Perforated Pipe by extending 6-inch solid walled PVC Pipe to Infiltration Pond.
- c. Revise “Office Building Roof Leader Note” to indicate “Extend 6-inch solid walled PVC Pipe from Northern Drip Line along the Office and connect to 4” Roof Drain Pipe, See Drawing P-2 for location.
- d. Revise note for the (2) picnic tables to Read as Follows:

“8’ Portable Picnic Table (2) Wabash Valley SG111D, with seats, black poly vinyl coated, or approved equal”

4. Drawing SA1.0

- a. Sketch SSK1 is attached to provide a section through the spread footing at column line H5.
- b. Sketch SSK2 is attached to provide a detail through the open section at the slab on grade and foundation level at column line F for where the push wall is dropped for the overhead and personnel door openings.
- c. Revise the heights depicted on Detail 3 – Metal Building Frame Dimensions to indicate “39’ Finished Eave” and “33’ Clear”.
- d. Revise Note 5 of the Metal Building Notes to Read as Follows:

5. Metal Building Manufacturer shall maintain product liability insurance with a minimum per incident and aggregate policy limit of \$1,000,000. Proof of insurance shall be provided to Engineer.

5. Drawing A1-1

- a. Provide additional Hollow Metal Door No. 120B at Electrical Room 120. Door to be similar to Door 118A. Provide rim device panic hardware at Door 120 and Door 120B.

b. Interior Elevation Call out at Women Shower Room to be 8/A5-2 similar.

6. Drawing A1-2

- a. Provide and install ceiling mounted projector and screen. Provide the following equipment:
 1. Projector to be Viewsonic PJD6240, with extended 3 year warranty. Provide universal ceiling mounting kit, miscellaneous steel and fasteners for complete installation.
 2. Screen to be ceiling hung Tensioned Contour Electrol by DaLite Screen Company. Provide ceiling mounting brackets, miscellaneous steel and fasteners as required for complete installation. Screen size to be 69" x 92", provide screen drop as required for 10'-6" mounting height. Screen finish to be powder coated, screen fabric to be Da-Mat.

7. Drawing A2-2

- a. Provide entrance lockset in place of passage set at Door No. 119.
- b. Provide Von Duprin Series 22 rim panic hardware at Doors 120 and 120B.

8. Drawing A2-1

- a. Where concrete is indicated to be sealed, provide:
 1. Euclid Chemical, ClearSeal WB150, apply per manufacturer's installation requirements only after concrete has cured for a minimum of 72 hours.

9. Drawing A3-1:

- a. Where signage is indicated as 18" high letters, provide 16" high letters.
- b. The intent of the color of the signage is to match the wall panel colors, color designations (i.e. PMS, SW, BM) will be provided as part of the submittal process.

10. Drawing A3-1:

- a. Provide a minimum height of 10'-0" of frp day lighting panels, at locations indicated on the drawings.

11. Drawing A5-2

- a. Remove allowance for sculpted story boards. Story boards to be provided by Owner and Installed by contractor.

12. Drawing A5-2/4

- a. Remove decorative sidelight note. Sidelight to have glazing type S-3.

13. Drawing A5-2/8

- a. Provide (2) towel pins at both the Men's and Women's shower rooms.

- 14. Drawing A5-3/3**
 - a. Remove resin panel note. Door lites to have glazing type S-3.
- 15. Drawing A5-3/5**
 - a. Provide horizontal metal panel 1 (XAB-16 profile) at Corridor 121 in place of the vertical metal panel shown.
- 16. Drawing A6-3**
 - a. Provide white maple hardwood guardrail cap in place of pine as shown.
- 17. Drawing H-8**
 - a. The HVAC Schedules Drawing Shall be Renumbered to be H-8 and 8 of 10, rather than H-5 and 5 of 10.
- 18. Drawing P-7**
 - a. Revise the Plumbing Fixture Schedule as shown on the Attached PSK-1 to include information for the required shower stall.
- 19. Drawing E1-1**
 - a. Lighting Fixtures notated with a "12" shall be revised to indicate note "17" as is referenced by this Addendum for Drawing E-4.
 - b. Lighting Fixtures notated with a "15" shall be revised to indicate note "15A" as is referenced by the Addendum for Drawing E-4.
 - c. Add Notation "15A" to Light Fixture C in the Women's Locker Room.
 - d. The dry type transformers shall be located in the Storage Room 117.
- 20. Drawing E1-2**
 - a. Panel A shall be located as a recess panel into the chase formed between Corridor 114 and the Women's Locker Room, adjacent to column 3B.
 - b. Panel H shall be surface mounted in Mechanical/Sprinkler Room 118 to clear equipment by other Contractors on the project.
- 21. Drawing E2-1**
 - a. The light fixtures above the sinks in the bathrooms shall be Type "Q" and not "A".
- 22. Drawing E2-2**
 - a. Panel B shall be located as a recess panel into the wall between Corridor 211 and the Men's Toilet 212, adjacent to column 3B.
- 23. Drawing E3-1**

- a. The blacked out notes on E3-1, 3-2 and 3-3 obscure a call out for the 16' high push wall in the tipping floor and one "M" light fixture that would be located in a future building expansion, and is not included in this contract.

24. Drawing E3-2

- a. Each exhaust fan is to have a dedicated Hand-Off-Automatic selector switch per the Mechanical Drawings. Starters are to be provided by Mechanical. Any associated motor operated dampers would be powered from the starter control power. See Drawing H-10 for location of the HOA selector switches for the exhaust fans.

25. Drawing E3-3

- a. The Carbon Monoxide detectors (CO) and associated Horn/Strobe (HS) units indicated on the Drawings are to be installed by the mechanical contractor at the locations indicated on Drawing H-10. Electrical contractor shall provide field conduit and low voltage wiring to interconnect the various devices. Refer to Drawing H-10 for specified locations. The Carbon Monoxide detection system is not connected to the fire alarm panel.

26. Drawing E-4

- a. Fixture Type 'N' to Bega Luminaire No. 7722MH with 39W T4 G8.5 MH lamp with wide beam spread lens.
- b. Add to Notes: Provide automatic hand dryer, GXT Extreme Air, by American Dryer, with recessed mounting kit. Color: Standard White. Provide at each location indicated as EHD on the drawings (total of 4)
- c. Add Note 15 to Read as Follows:
 15. Provide Digital Demand Meter approved equal to E-MON D-MON 480100L (100Ampere, 277/480 volt, 3 phase, 4 wire KWH/Demand Lonworks Energy Monitor Series).
- d. Add Note 15A to Read as Follows:
 - 15A. Provide emergency lighting ballast, Bodine B50ST (1100 Lumen with 28 Watt T-8 Supersaver lamp or approved equal on the designated fixtures.
- e. Add Note 16 to Read as Follows.
 16. Provide Digital Demand Meter approved equal to E-MON D-MON 803200L (3200 Ampere, 277/480 volts, 3 phase, 4 wire KWH/Demand Lonworks Energy Monitor Series)
- f. Add Note 17 to Read as Follows:
 17. Provide emergency lighting ballast, Bodine LP600STU (750 lumen

output) or approved equal on the designated fixtures.

- g. The Electrical Breakers for the Production Equipment indicated as “Estimate”, as the recycling equipment manufacturers distribution data is not yet known. The installation of circuits to the motor control center and other distribution is anticipated to be incorporated into the contract as a Change Order. Contractor shall include in their proposal the installation of the estimated breakers in Panel MDP for the production equipment.

Attachments

Pre-Bid Meeting Sign in Sheet
Section 029500 – GRANITE CURBING
Section 078400 - FIRESTOPPING
CSK-1
SSK1
SSK2
PSK-1

END OF ADDENDUM NO. 1

PRE-BID CONFERENCE

New Hampshire Cooperative Recycling Facility
 Concord Regional Solid Waste / Resource Recovery Cooperative
 (CRSW/RRC)

Pre-bid Date: Tuesday, May 12, 2009

Recycling Facility

Company Name	Representative	Phone/Fax
NORTH BRANCH CONSTR.	JOHN BEAVER	224-3233 x241 225-7165
R M PIPER INC	LES DOWNING	536-4154 536-3429
RICHARDSON ELECTRIC	MALTY SCHRAVER	474-3900 x129 474-8810
TURNSTONE CORP	MATT DARBY	249-9300
Harvey Construction Corp	Anne Dodd	624-4600
GEORGE DAVID W WHITE SOH INC	GEORGE HESTER	226-8873 226-8874
CONSTAN INC.	RICH GONSALVES	536-3533
Jennings Excavation	Jeff Rubin	883-9206
Jewett Construction	Kevin Pesca	895-2412 P. 895-2027 F
Seacoast Crane + Building Co.	William Belanger	207-439-5899 P. " " 5879 F
Gordon Const Inc.	Vern Gordon	603-224-1495
Hutter Construction Corp.	Owen Bertram	P 878-2300 F 878-3519
Ingram Const. Corp.	Jeff Ingram	P 357-0759 F 357-9426

PRE-BID CONFERENCE

New Hampshire Cooperative Recycling Facility
 Concord Regional Solid Waste / Resource Recovery Cooperative
 (CRSW/RRC)

Pre-bid Date: Tuesday, May 12, 2009

Recycling Facility

Company Name	Representative	Phone/Fax
HITZ CONSTRUCTION	TODD QUERRY	968-3262 1-866-628-8169
HOPKINTON FORESTRY	MARK MITTLE	470-6297
Construction Network Services	Michael Fitzgerald	603 679 3488 679 3342
ALW THERRIEN Co., Inc	RON THERRIEN	669-3344 (FAX) 603-0250
KINSMAN CORP.	Bill Algor	603-625-9199 603-625-9399
CSSI	Mike Halutz	603-518-5124 603-518-5127
Beloin Construction Inc.	Jen Beloin Magne	603-332-4337 -603-335-6445
James S. Piscopo G.C.	Morgan YERXA	603-524-2391 FAX - 524-3640
MARK CARROLL CONST. INC	DAVE PATTEN	627-9506 (T) 647-2270 (F)
Greene & Russell Inc	Smith	496 0884

PRE-BID CONFERENCE

New Hampshire Cooperative Recycling Facility
 Concord Regional Solid Waste / Resource Recovery Cooperative
 (CRSW/RRC)

Pre-bid Date: Tuesday, May 12, 2009

Recycling Facility

Company Name	Representative	Phone/Fax
WHITCHER BUILDERS	MATTHEW ENMAN	P. 603-664-5577 F. 603-664-9508
Scarpone Electric	Tom Ferland	P. 603-332-5011 F. 603-332-5066
HUTTER CONSTRUCTION	BERNIE TRAYWICK	878-2300 873-3519
JEREMY HILTZ EX INC.	PETER JULIA	P. 968-9694 F. 968-7794
Charlestown Cornerstone	Steve Nail	P. 826-4976 F. 826-3695
Riess Const.	Pat Riess	P. 536-7756 F. 536-7757
DANIEL O'CONNELL	SHAWN BOKER	781 938 0162
WILKINSON WILKINSON Eng & ^{CONS.} DESIGN SERVICES	BRIAN GEARIS	226 3877 P. 226-3361 F.
All State Fire Equip	David Anderson	603-834-1580 603-330-1975
Reilly Electric Co	ERIC BRANDER	603-665-4240 603-665-4245
MSI	Rich Harkin	603-890-6900
DUTTON & GARFIELD, INC.	KEITH WENTWORTH	603-329-5300
Trumbull-NEUSON	ED Friedman	603-643-3655

SECTION 029500
GRANITE CURB

PART 1 - GENERAL

- 1.1 The WORK under this Section consists of the excavation, installation or resetting, jointing, backfill, furnishing, inspection and testing for vertical and sloped granite curbing, as shown on the plans, as herein specified, and as directed.

PART 2 - PRODUCTS

2.1 CURB

- A. Curb shall be new granite curbing and reset curbing shall be salvaged granite curbing.
- B. Granite shall be hard, durable, reasonably uniform in appearance, and free from weakening seams; solid quartz or feldspar veins will not be cause for rejection.
- C. Granite curbing shall be of the type as shown on the plans. Dimensions for sloped granite curbing shall be 6" x 12" minimum and vertical curbing shall be 5" x 17" or as approved by the ENGINEER.
- D. Tolerances and finished surfaces for granite curbing shall be as follows:
1. Top surfaces shall be sawed true to plane for vertical curbing. Front and back arris lines shall be pitched straight and parallel. Tolerances for the aforementioned shall be (+) 1/8". For sloped curbing, the arris lines shall be true to top, print and ends and may vary by (+) 1/4". Drill holes not deeper than 1/4" will be allowed in the arris lines.
 2. Front face surfaces for vertical curbing shall be at right angles to the top and approximately true to plane. Tolerances shall be (+) 1" or (-) 1/2". No drill holes shall be showing within the top 10". For sloped curbing, the exposed face shall have a tolerance of (+) 1". Drill holes in the exposed face shall not be longer than 8" or deeper than 1/4".
 3. Exposed back face surface shall be on a plane parallel with the front face and shall be of a straight split to 1-1/2" below the exposed surface. Tolerances shall be (+) 1". No larger than a 1/4" segment of drill holes shall be showing in arris lines.
 4. Concealed back face surface shall have a tolerance of (+) 1-1/2" for surfaces 1-1/2" below the exposed surface. Drill holes are not objectionable.
 5. Bottom surface shall be approximately parallel to the top. The minimum bottom width for vertical curbing shall be 3".
 6. Exposed end surfaces shall be square with the top and front face surfaces.
- E. The curbing shall consist of stones a minimum of 3 feet to a maximum of 10 feet in length.
1. For curbing on curves with a radius of less than 30 feet, radius curbing shall be used.
- F. Cement mortar joints shall consist of either Portland cement or masonry cement, mortar sand, and water.
1. Portland cement shall be Type II conforming to ASTM C150, Standard Specifications for Portland cement.
 2. Masonry cement shall be a Portland cement meeting the requirements of the AASHO M150, with the additional requirement that final set shall be attained within 12 hours.

3. Mortar sand shall consist of hard, strong, durable uncoated mineral or rock particles, free from injurious amounts of organic or other deleterious substances, and shall be uniformly graded from fine to coarse within the limits specified below:

Percent By Weight	
<u>Sieve Size</u>	<u>Percent Passing</u>
No. 8	100
No. 16	60-100
No. 50	15-35
No. 100	2-15
No. 200	0-15

4. Water shall be clear and free from injurious amounts of oil, acid, organic matter, or other deleterious substances. It shall not be salty or brackish.
5. Cement mortar shall be composed of 1 part, by volume, of either Portland cement or masonry cement, combined with not more than 2 parts, by volume, of loose mortar sand with water to obtain the required consistency. Within these limits the mason may determine the exact proportions for best workability.
6. Mixing shall be as follows:
 - a. For hand mixed mortar, the dry sand and cement shall be thoroughly mixed in a clean tight mortar box until the mixture is of a uniform color. Water shall be added in such quantity as to form a mortar of the consistency of stiff paste.
 - b. Machine mixed mortar shall be mixed in an approved mixer for not less than 3 minutes. The consistency shall also be that of a stiff paste.

2.2 RESET CURBING

- A. Curbing to be salvaged and reset shall be carefully removed to the nearest existing joint and to the limits as shown on the plans. The salvaged curbing shall be stored and protected at a site designated by the ENGINEER. The CONTRACTOR shall bear all costs in replacing any curbing damaged or lost because of his negligence. Any salvaged curbing not used on the job site shall be returned to the City.
- B. All exposed surfaces of reset curbing shall be cleaned by sand blasting.

PART 3 - EXECUTION

3.1 EXCAVATION

- A. Excavation for curb shall be to the required depth, and the base upon which the curb is to be set shall be compacted to a firm, even surface. All spaces under the curbing shall be filled with material conforming to the requirements of crush gravel for roadway base course. This material shall also be thoroughly tamped.

3.2 INSTALLATION

- A. The installation of curbing shall be so that the front top arris line conforms to the line and grade as shown on the plans. Vertical curbing shall have a 6" reveal, and sloped shall have a 5" reveal. Unless shown otherwise on the Drawings.

- B. Curbing shall be tipped down at both sides of driveway entrances, crosswalks, and wheel chair ramps. Curb ends shall be cut so as to maintain even joint width with the preceding curb end.

3.3 JOINTING

- A. Joints shall be pointed with mortar and the exposed portions finished with a jointer. Joint width shall be at an optimum 1". Tolerances shall be (+) 3/4". For joints on curves, widen the form or back joint gap as necessary.
- B. Mortar shall be used within 2-1/2 hours after original mixing when the air temperature is 80 degrees Fahrenheit or higher, and within 3-1/2 hours when the air temperature is below 80 degrees Fahrenheit. Mortar not used within these time limits shall be discarded.

3.4 BACKFILL

- A. Backfill shall be of the material as shown on the plans or as approved by the ENGINEER and shall generally consist of concrete on the front of the curb and crushed gravel conforming to the requirements for roadway base on the back of the curb. Backfill material shall be compacted in layers not exceeding 6" in depth and to a 95% optimum density. Allowance for pavement thickness shall be made for roadway patching when required.

3.5 INSPECTION

- A. Curb sections which are not plumb or form discontinuous or broken arris lines after backfilling will not be approved or accepted by the ENGINEER. The CONTRACTOR shall reset all unacceptable curbing and this resetting shall be at the CONTRACTOR'S expense.

3.6 CLEANING

- A. Completion of the work, the area shall be cleaned up to the satisfaction of the ENGINEER, including removal of all spoil from the construction, cleanup of materials, repair of pavement and planted areas, as a result of the construction. Restoration of the area to its original condition, as nearly as possible, shall be accomplished before departure from the site.

END OF SECTION

SECTION 078400

FIRESTOPPING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Firestopping systems.
- B. Firestopping of all joints and penetrations in fire-resistance rated and smoke-resistant assemblies, whether indicated on drawings or not, and other openings indicated.

1.02 RELATED REQUIREMENTS

- A. Section 016116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 092116 - Gypsum Board Assemblies: Gypsum wallboard fireproofing.

1.03 REFERENCE STANDARDS

- A. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2008a.
- B. ASTM E 814 - Standard Test Method for Fire Tests of Through-Penetration Fire Stops; 2006.
- C. ITS (DIR) - Directory of Listed Products; Intertek Testing Services NA, Inc.; current edition.
- D. FM P7825 - Approval Guide; Factory Mutual Research Corporation; current edition.
- E. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition; www.aqmd.gov.
- F. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.04 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Schedule of Firestopping: List each type of penetration, fire rating of the penetrated assembly, and firestopping test or design number.
- C. Product Data: Provide data on product characteristics, performance ratings, and limitations.
- D. LEED Report: Submit VOC content documentation for all non-preformed materials.
- E. Manufacturer's Installation Instructions: Indicate preparation and installation instructions.
- F. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- G. Qualification statements for installing mechanics.

1.05 QUALITY ASSURANCE

- A. Fire Testing: Provide firestopping assemblies of designs that provide the scheduled fire ratings when tested in accordance with methods indicated.
 - 1. Listing in the current-year classification or certification books of UL, FM, or ITS (Warnock Hersey) will be considered as constituting an acceptable test report.
 - 2. Valid evaluation report published by ICC Evaluation Service, Inc. (ICC-ES) at www.icc-es.org will be considered as constituting an acceptable test report.
 - 3. Submission of actual test reports is required for assemblies for which none of the above substantiation exists.

- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Installer Qualifications: Company specializing in performing the work of this section and:
 - 1. Approved by firestopping manufacturer.
- D. Installing Mechanic's Qualifications: Trained by firestopping manufacturer and able to provide evidence thereof.

1.06 FIELD CONDITIONS

- A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation. Maintain minimum temperature before, during, and for 3 days after installation of materials.

PART 2 PRODUCTS

2.01 FIRESTOPPING SYSTEMS

- A. Firestopping: Any material meeting requirements.
 - 1. Fire Ratings: Use any system listed by UL or tested in accordance with ASTM E 814 that has F Rating equal to fire rating of penetrated assembly and T Rating of the requirements of the code and that meets all other specified requirements.
 - 2. Fire Ratings: See Drawings for required systems and ratings.

2.02 MATERIALS

- A. Firestopping Sealants: Provide only products having lower volatile organic compound (VOC) content than required by South Coast Air Quality Management District Rule No.1168.
- B. Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Type required for tested assembly design.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify openings are ready to receive the work of this section.

3.02 PREPARATION

- A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter that could adversely affect bond of firestopping material.
- B. Remove incompatible materials that could adversely affect bond.

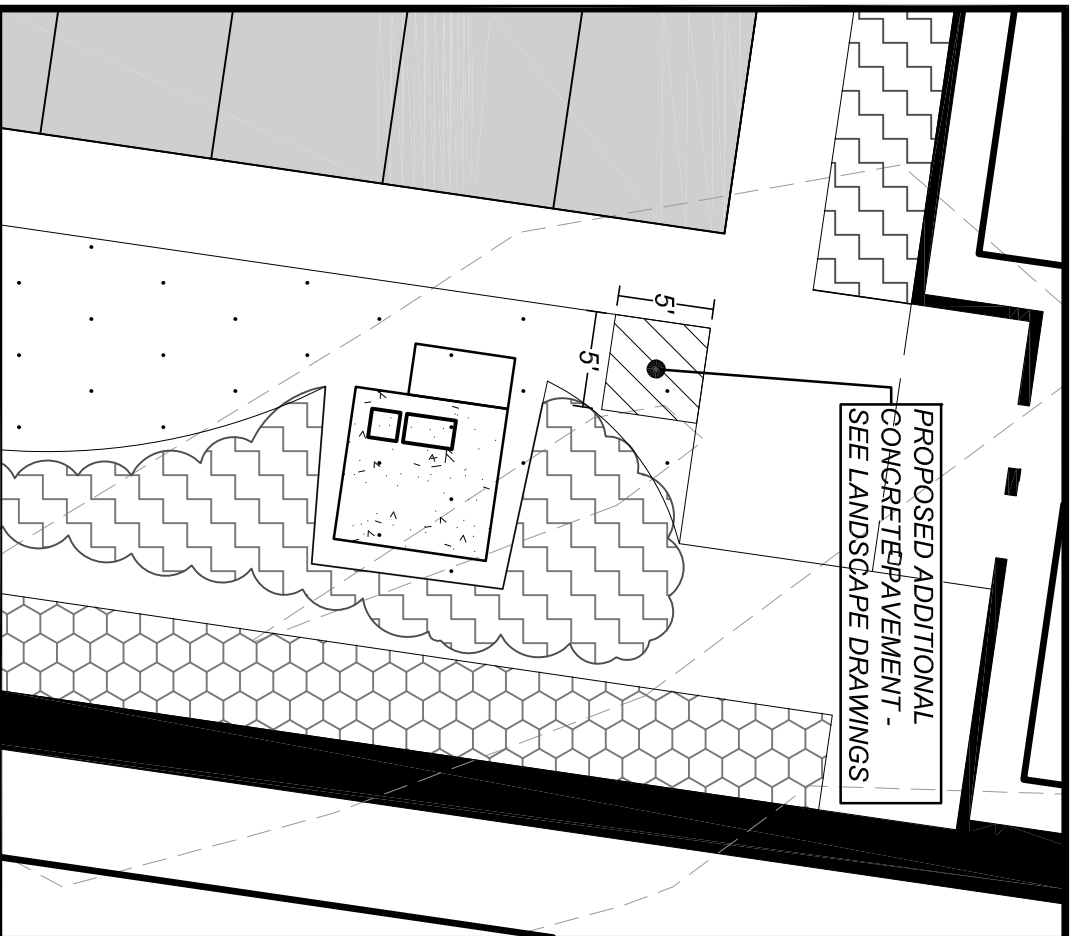
3.03 INSTALLATION

- A. Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.
- B. Do not cover installed firestopping until inspected by authority having jurisdiction.

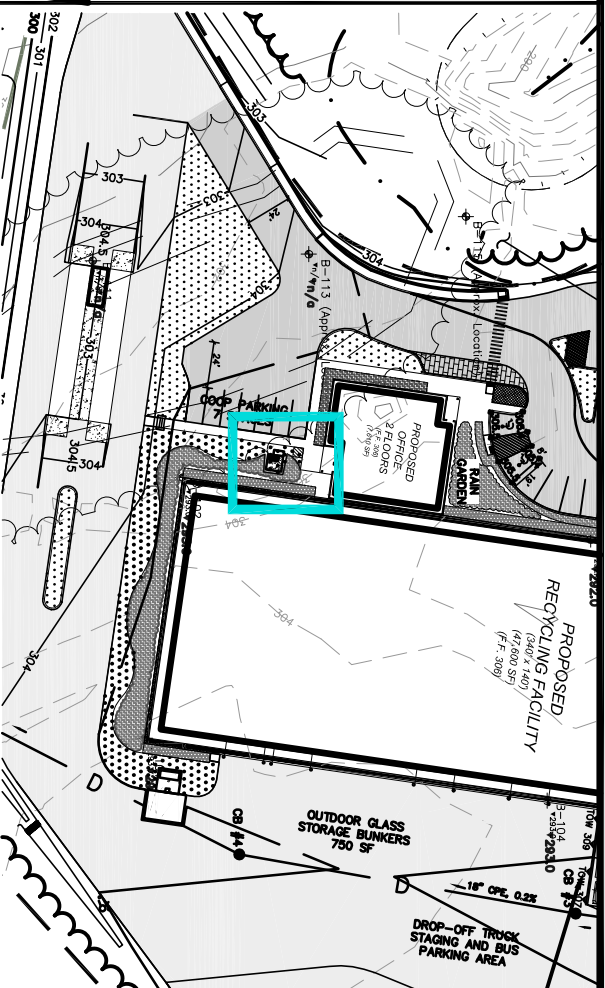
3.04 PROTECTION

- A. Clean adjacent surfaces of firestopping materials.
- B. Protect adjacent surfaces from damage by material installation.

END OF SECTION



Scale: 1" = 10'



Scale: 1" = 100'

Notes:

1. This site sketch depicts a 5' x 5' concrete pavement section added to the plans and as described in Addendum #1 to the the New Hampshire Cooperative Recycling Facility Construction Drawings.
2. The additional concrete section shall conform to the concrete pavement detail shown on Sheet L-3 of the Landscape Drawings.

CRSW/RRC
 347-B Village Street, Penacook, NH 03303
 New Hampshire Cooperative Recycling Facility
 Construction Drawings

CMA ENGINEERS
 CIVIL/ENVIRONMENTAL ENGINEERS

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Lafayette Center
 Storer Street Building, Suite 208
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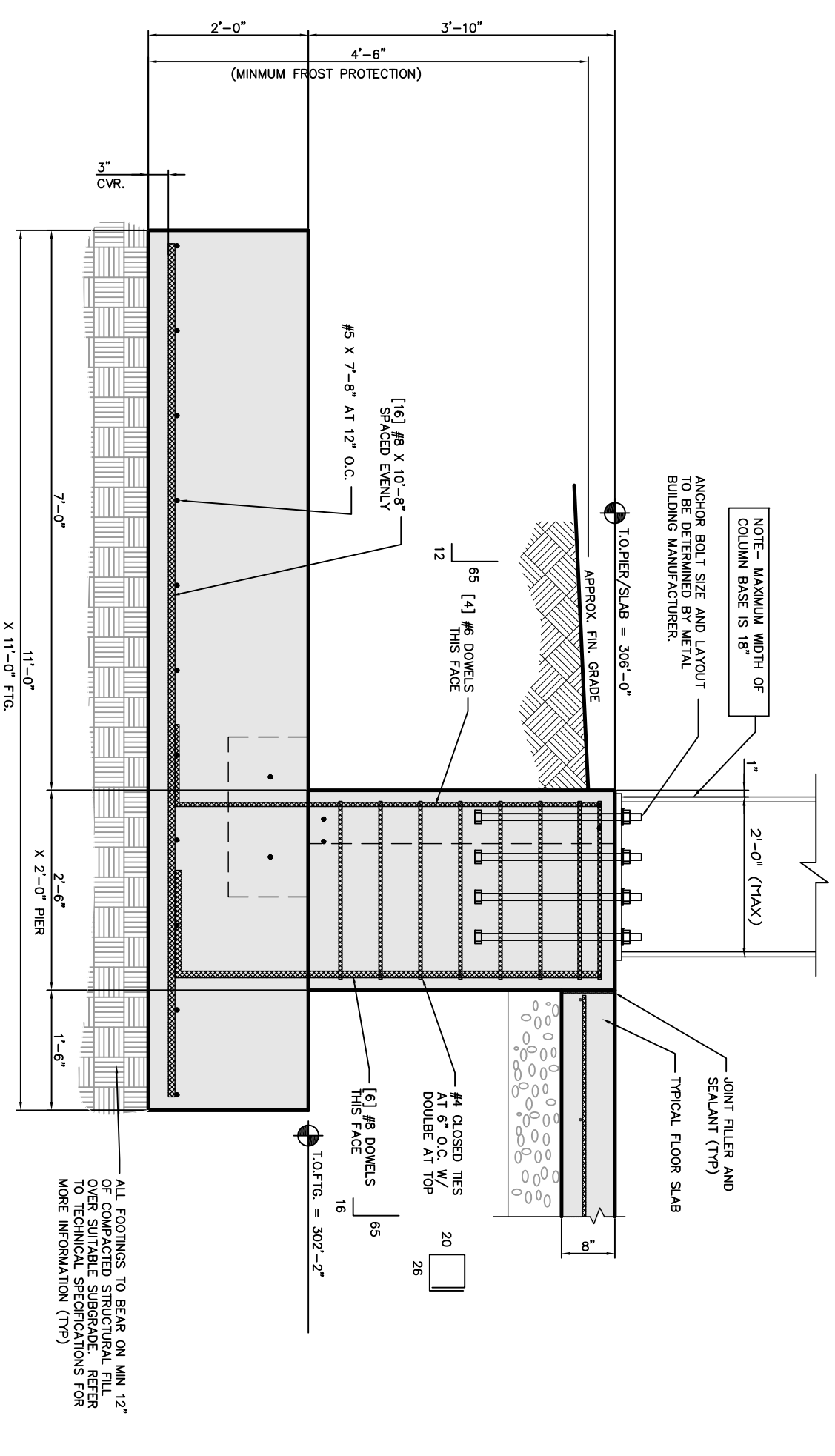
55 South Commercial Street
 Manchester, NH 03101
 Phone: 603/627-0708
 Fax: 603/627-0746

date:	May 2009	designed by:	AJS/JSM
project no.:	660	drawn by:	AJS
file name:	660ocSP.dwg	approved by:	PDS

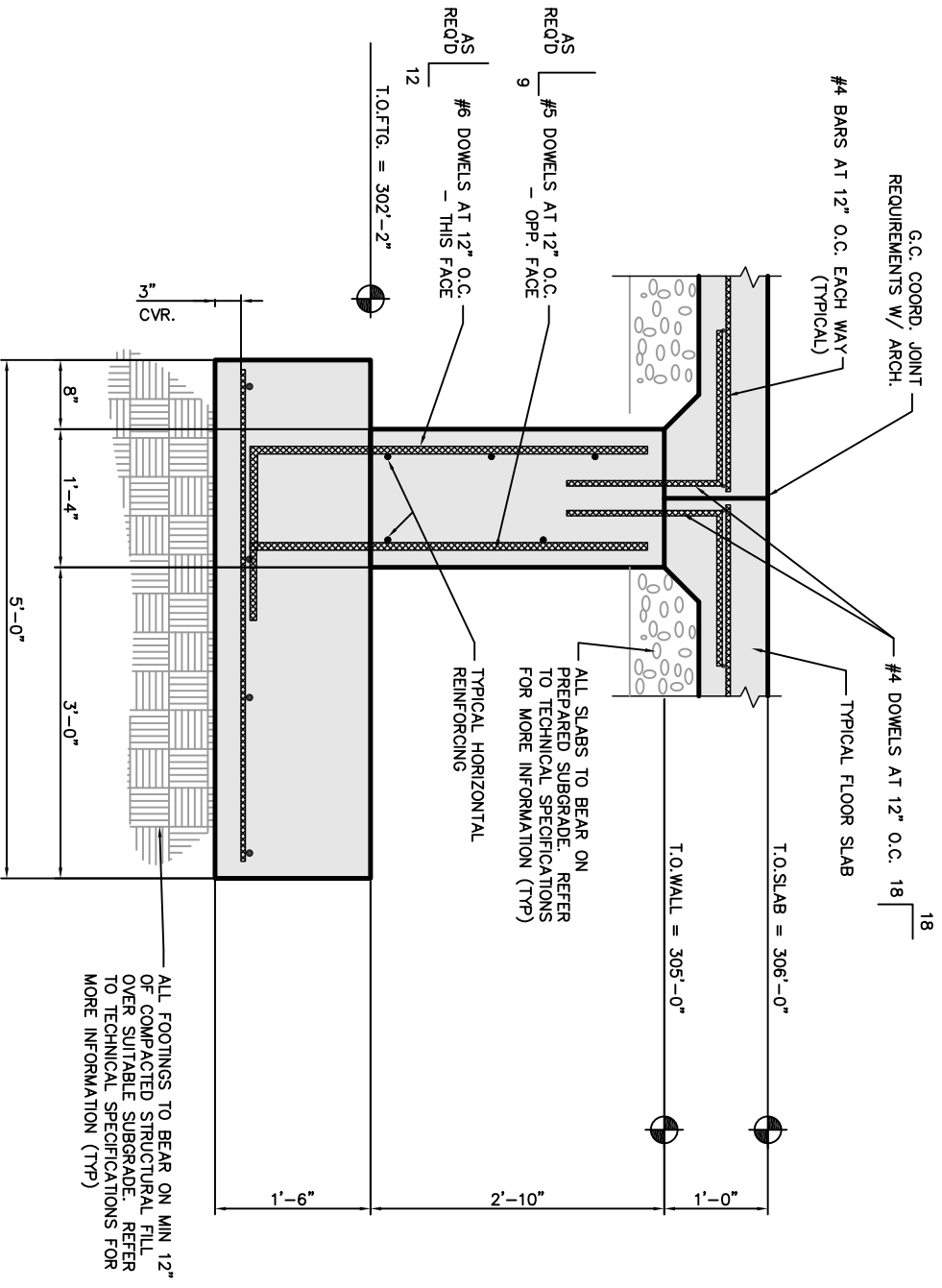
CSK-1

<p>CRSW/RRC</p> <p>347-B Village Street, Penacook, NH 03303</p> <p>New Hampshire Cooperative Recycling Facility</p> <p>Construction Drawings</p>		<p>date: 04/24/2009</p> <p>scale: AS NOTED</p> <p>RFI#: N/A</p>	<p>drawn by: NAM</p> <p>approved by: JSN</p> <p>drawing reference: SA1.6</p>	<p>CMA ENGINEERS CIVIL/ENVIRONMENTAL ENGINEERS</p> <p>Portsmouth, NH 603.426.9777 info@cmaengineers.com</p> <p>Manchester, NH 603.627.0188 www.cmaengineers.com</p> <p>JSN Associates, Inc. Consulting Structural Engineers</p> <p>Keene, NH 603.352.7111 www.cmaengineers.com</p>	<p>One Autumn Street Portsmouth, NH 03801 (603) 433 - 8639 Fax: (603) 431 - 2811</p>
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1
SHORT PIER (H5)
 Scale: NTS



SSK1



1
SSK2

PUSH WALL DOOR DETAIL
Scale: NTS

CRSW/RRC		date: 04/24/2009		drawn by: NAM			
347-B Village Street, Penacook, NH 03303		scale: AS NOTED		approved by: JSN			
New Hampshire Cooperative Recycling Facility Construction Drawings		RFI#: N/A		drawing reference: SA1.6			
						SSK2	

PLUMBING FIXTURE SCHEDULE

		PIPE CONNECTION SIZES				FITTINGS / ACCESSORIES		WATER USED	ADA COMPLIANT	NOTES	
TAG	FIXTURE TYPE	MAKE	MODEL	SOIL	CW	HW	TRAP				
LAV-1	LAVATORY COUNTERTOP	ZURN	Z5110	1 1/4"	3/8"	3/8"	1 1/4"	FAUCET: ZURN Z81101-3M	0.5 GPM	YES	1
LAV-2	LAVATORY WALL HUNG	ZURN	Z5324-PED	1 1/4"	3/8"	3/8"	1 1/4"	FAUCET: ZURN Z81101-3M	0.5 GPM	YES	1
WC-1	WATER CLOSET FLUSH VALVE	ZURN	Z5665	3"	1"	-	-	Z6200PEV HIGH EFFICIENCY MANUAL FLUSH VALVE Z5955SS-EL TOILET SEAT	1.28 GPF	YES	1
UR-1	URINAL	ZURN	Z5795 WATERLESS URINAL	2"	-	-	2		0 GPF	YES	1
SH-1	SHOWER	LASCO	1363-BFS	1 1/2"	1/2"	1/2"	1 1/2"	36x36x74 3/8" ADA TRANSFER TYPE ACCESSORIES: FOLD-UP CUSHIONED SEAT, ZURN TEMP-GUARD III SHOWER UNIT: MODEL Z7301-SS-MT-DV2P-HM11-H3-S9-VB INCLUDE HAND HELD 1.5 GPM SHOWER HEAD. PROVIDE GRAB BARS PER ARCHITECTURAL DRAWINGS	1.5 GPM	YES	1
KS-1	KITCHEN SINK	ELKAY	LUSTERSTONE LRAD1720	1 1/2"	1/2"	1/2"	1 1/2"	INCLUDE ZURN 82300-CP8-17M SINGLE LEVER FAUCET	1.5 GPM	YES	1
SS-1	SERVICE SINK	STERN-WILLIAMS	MTB-2424	3"	1/2"	1/2"	3"	A-20 ALUMINUM BUMPER GUARDS, T-10-VB FAUCET, T-35 HOSE AND WALL HOOK, T-40 MOP HANGER, BP SPLASH PANELS	2.2 GPM	NO	
WF-1	WATER FOUNTAIN	SUNROC	DF-3701	1 1/4"	3/8"	-	1 1/4"	DUAL HEIGHT MODEL	-	YES	1
RD-1	ROOF DRAIN	ZURN	Z164	4"	-	-	-	12" ROOF DRAIN WITH EMERGENCY OVERFLOW DRAIN	-	-	
SP-1	ELEVATOR SUMP PUMP	ZOELLER	940-0006					3/8 HP, 115V, 8.5A, OIL SMART SWITCH AND PANEL			
FD-1	FLOOR DRAIN	ZURN	Z415B	2"	-	-	2"	ALL TRAPS TO BE PROTECTED WITH SURE-SEAL TRAP PROTECTOR	-	-	
IW-1	INDIRECT WASTE FUNNEL	ZURN	Z326	2"	-	-	2"	ALL TRAPS TO BE PROTECTED WITH TRAP PRIMERS	-	-	
HB-1	NON FREEZE WALL HYDRANT	ZURN	Z1300	-	3/4"	-	-	SELF DRAINING, NON FREEZE	-	-	

50 GAL ELECTRIC WATER HEATER

	PROJECT:	NEW HAMPSHIRE COOPERATIVE RECYCLING FACILITY	DATE:	5-18-09	DWN. BY:	JDS
	SUBJECT:	SHOWER ENCLOSURE	SCALE:	NTS	REF. SHEET	P-7

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