

ADDENDUM NO. 1

June 22, 2011

The following addendum items shall become part of the Contract Documents for the above referenced project.

GENERAL

- Item No. 1:** Pre-Bid Walk-Through: A non-mandatory Pre-bid Meeting was held on Wednesday, June 15, 2011. The sign-in sheet, documenting those in attendance, is attached for reference.
- Item No. 2:** Notification: Please note that all questions regarding the Bidding Documents must be received in writing at the Architect's office by noon on Wednesday, June 22nd to be considered for response. Responses to questions received after that time cannot be processed in an addendum to provide information to all planholders or bidders. If questions have not been submitted by the announced time, bidders must bid on information documented in the published bid documents or any addenda received. The architect cannot provide any responses to questions or clarification after that time. A final addendum will be published no later than the end of the day on Thursday, June 23rd.
- Item No. 3:** Clarification: A question regarding the requirement for a Construction Stormwater Permit arose at the Pre-Bid Walk-Through. After further investigation, it has been determined that this Landfill Project is NOT covered under the National Pollutant Discharge Elimination System (NPDES) permit program. Therefore, a Notice of Intent (ECY 020-75) Construction Stormwater General Permit is not required.

PROJECT MANUAL

- Item No. 4:** Specification Table of Contents: ADD Section 323113 - Chain Link Fencing. This new section is attached to this addendum.
- Item No. 5:** Specification Table of Contents: ADD Section 034713 - Tilt-Up Concrete. This new section is attached to this addendum.
- Item No. 6:** Specification Table of Contents: DELETE Section 283111- Digital, Addressable Fire Alarm System. No fire alarm system is required for this project.
- Item No. 7:** General Conditions to the Contract for Construction, AIA Document A201, Sub-paragraph 3.7.1: CLARIFICATION: Cost for the General Building Permit shall not be included in the Bid. This permit must be secured and paid by the Contractor, but the County will reimburse the cost, without mark-up. Also reimbursable without mark-up, is the Water Well use permit through the Grant County Health District and the PUD fee, except temporary power costs, which are the responsibility of the Contractor. . All other fees, licenses, inspections, and permit costs shall be included in the Bid Proposal.

Item No. 8: Special Conditions: ADD Item No.12 – LIMITS OF INSURANCE, as follows:

12. LIMITS OF INSURANCE

Limits of insurance shall be as follows: (Coverage must include all work)

- A. *Liability Insurance: not less than Two Million Dollars (\$2,000,000.00) for bodily injury including death per occurrence and Two Million Dollars (\$2,000,000.00) in the aggregate.*
- B. *Property Damage Insurance: not less than One Million Dollars (\$1,000,000.00) per each occurrence.*
- C. *Workmen's Compensation: As required by law.*
- D. *Indemnification/Hold Harmless requirements identified under Paragraph 3.18 shall apply and shall be so noted on Certificate of Insurance. In addition, the following coverage shall be included:*
 - a. *Underground, Collapse, and Blasting: the following clause "Injury to or destruction of property caused by the collapse or structural injury to any building or structure due to (1) excavation or backfill, pile driving or caisson work, or (2) moving, shoring, underpinning, raising or demolition of any building or structure or removal or rebuilding of any structural support and damage due to any blasting operations and damage of any underground utilities in the performance of the work shall be included in the coverage for which certificate is furnished."*
 - b. *Compensation & Employer's Liability Insurance: in case of any class of employees engaged in hazardous work under this contract at the site of the project is not protected under Statutory Workmen's Compensation Statute, the Contractor shall provide and shall cause each subcontractor to provide compensation insurance with a private company, in an amount equivalent to that provided by the Workmen's Compensation Statute for the protection of his employees not otherwise protected.*
 - c. *Broad Form Property Damage Liability Insurance shall be included in the coverage for which certificate is furnished.*
 - d. *Comprehensive Automobile Liability Insurance including non-ownership and hire care coverage, as well as owned vehicles shall be included in the coverage for which certificate is furnished.*
 - e. *Non-cancellation Rider: policies shall carry a rider which states that they are not subject to unilateral cancellation and that any cancellation for any reason shall require notice to the Owner, properly delivered. No insurance shall be terminated without such notice and a 30-day period of grace.*
- E. *Contractor to purchase One Million Dollars (\$1,000,000) excess bodily injury/property damage limits in addition to primary limits specified.*
- F. *Contractor shall include "Cross Liability Endorsement" or "Separation of Insured."*

Item No. 9: Specification Section 013300 – Submittal Procedure: CLARIFICATION: Submittals shall be provided through an Electronic Submittal Process, as indicated in paragraph 1.5 of this specification. Cost are to be included in Bid.

Item No. 10: Specification Section 033000 – Cast-In-Place Concrete: Paragraph 3.9: ADD subparagraph D., as follows:

D. Abrasive-Blast Finish: Match abrasive-blast finish applied to Concrete Tilt-up Panels on Office/Shop Building. Apply to cast-in-place concrete surfaces, as noted. Repair and patch tie holes and defects prior to application. Remove fins and other projections that exceed specified limits on formed-surface irregularities.

1. Apply to concrete surfaces exposed to public view, at the Scale House walls.

Item No. 11: Specification Section 074113 - Metal Roof Panels & Section 074213 - Metal Wall Panels: The manufacturer submitted for these roof and wall panels shall be the same as identified in Section 133419 – Metal Building Systems, with color considerations identified in **Addendum Item No. 16**. The same manufacturer of panels shall be used on all buildings in this project.

Item No. 12: Specification Section 078100 - Applied Fireproofing, para. 2.2, B.: CLARIFICATION: Substrate Primers are required for this product and shall be as recommended by the selected product manufacturer for the substrate and finish to which it will be applied. The manufacturer's recommended compatible primer shall be applied to exposed steel structure, including that which has been factory-primed with an incompatible primer.

Item No. 13: Specification Section 133000 - Fuel Tanks and Dispensing Systems: Paragraph 2.1, A. d.; REVISE to require a one-year warranty for work performed on tank and dispenser relocation. All cleaning, testing and re-finishing requirements for tanks and piping shall remain as specified. A 30-year warranty is not required.

Item No. 14: Specification Section 133000 - Fuel Tanks and Dispensing Systems: Paragraph 2.2, A.; REVISE this paragraph in its entirety. Dispensers are to be existing, salvaged dispensers relocated for re-use. Dispensing system is currently in working condition and shall be relocated using as many existing components as are salvageable. Any component not able to be salvaged or unable to be re-used for any reason, shall be replaced at no addition cost to the Owner. Completed, relocated dispensing system shall be fully operational.

Item No. 15: Specification Section 133000 - Fuel Tanks and Dispensing Systems: Paragraph 2.4, A., 2.; REVISE this paragraph to allow surface-installed piping. At Contractor's option, a 12" high steel dispenser base/platform may be provided in lieu of surface-mounting dispensers on the slab. Such base/platform shall be fully enclosed with steel plate finish and painted. Piping feeding platform-mounted dispensers may be provided as above-ground piping

Item No. 16: Specification Section 133419 - Metal Building Systems: Pre-approval for metal building manufacturers is NOT required. They must meet the qualification and fabricating criteria identified in this Section and they must be **IAS AC472 certified** (*refer to Addendum Item #17*).

Pre-approval IS required for modification to the prescribed metal panel colors. The identified Fabral color selections (paragraph 1.6, D.) are critical to this project's design and must be followed. All four identified colors must be available for either/both panel and/or trim selection. Similar colors by other manufacturers will be considered but pre-approval is required. The same manufacturer of panels shall be used on all buildings in this project.

- Item No. 17:** Specification Section 133419 - Metal Building Systems: With the end of the AISC Category MB certification program, Metal Building Manufacturers being considered for this project must be IAS AC472 certified. All requirements and reference to the former AISC certification shall be replaced with this new IAS certification requirement.
- Item No. 18:** Specification Section 133419 - Metal Building Systems: Paragraph 2.5, A., 6.: The Roof Panel Basis of Design has been discontinued by Fabral. Modify the Basis of Design to be Fabral “IP Seam 3”.
- Item No. 19:** Specification Section 312000 - Earth Moving: The referenced Geotechnical Report for this project is available electronically in .pdf format at www.zeckbutler.com under the “Bidding Info” section.

DRAWINGS

- Item No. 20:** Sheet G101, General Notes: CHANGE Note 2 to read as follows: “Provide fire blocking as per 2009 IBC, Section 717.”
- Item No. 21:** Sheet C100, Site Plan: ADD the following note: “Modifications and connections to the existing fencing shall be performed in a manner to maintain site security. If temporary fencing is used, it must be securable. If the existing fence line is not compromised until the new fencing perimeter is in place, including new buildings, temporary fencing will not be required.”
- Item No. 22:** Sheet C100, Horizontal Control and Site Plan: CHANGE callout at landfill entrance gate to read: “35’ double-leaf cantilevered gate”. This will allow for two 18-foot leaves to be utilized at this location.
- Item No. 23:** Sheet C101, Building Site Plan: CHANGE Concrete Pad callout at Fuel Island to read “12-inch thick reinforced concrete pad. Refer to Specification Section 133000 for concrete and reinforcement specification.”
- Item No. 24:** Sheet C102, Overall Grading Plan: CLARIFICATION: Topography indicated on this drawing does not provide labels/elevation callouts. To view these labels, refer to modified Drawing C102 posted on the Zeck Butler website (www.zeckbutler.com) at the bidding information tab.
- Item No. 25:** Sheet C501, Details: CHANGE Detail 7 title to “Cantilevered Gate Detail” and ADD the following note: “Provide 35’ wide double-leaf cantilevered gate at landfill entrance road.”
- Item No. 26:** Sheet AC102, Enlarged Site Plan: ADD the following note: “Refer to the attached Detail 2/AC102 for foundation and slab details at weigh scales.”
- Item No. 27:** Sheet AC102, Enlarged Site Plan: ADD Detail 2/AC102 - Foundation at Scale as attached.

Item No. 28: Sheet AC102, Enlarged Site Plan: REVISE callout note for cantilever gate to read, “24’ wide cantilever gate.”

Item No. 29: Sheet AC102, Enlarged Site Plan: CLARIFICATION: Install pole-mounted stop/go (red/green) lights as indicated on Civil Sheet C101.

Item No. 30: Sheet L201, Drill Seed Notes, Note 5: ADD the following:

% of Mix	Species		Cultivar	Grass Seed Drill #/Acre	Air Seeder (Valmar) #/Acre
41%	Bluebunch Wheatgrass	<i>Pseudoroegneria spicata</i>		4.5	5.6
14%	Sandberg Bluegrass	<i>Poa secunda</i>		1.5	1.9
14%	Indian Ricegrass	<i>Achnatherum hymenoides</i>	Nezpar	1.5	1.9
9%	Bottlebursh Squirrel tail	<i>Elymus elymoides</i>		1	1.3
14%	Thickspike Wheatgrass	<i>Elymus lanceolatus ssp. lanceolatus</i>	Schwendimar	1.5	1.9
9%	Great Basin Wildrye	<i>Leymus cinereus</i>		1	1.3
				11	13.8

Item No. 31: Sheet A101, Floor Plan - Shop Building: CHANGE Detail Callout at Mezzanine Stair Section to read “3/A411”

Item No. 32: Sheet A101, Floor Plan - Shop Building: ADD finished floor slab elevations per attached Detail 3/A101.

Item No. 33: Sheet A101, Floor Plan - Shop Building: ADD callout for Detail 4/A101 – 3-Hour Fire Partition, as attached.

Item No. 34: Sheet A101, Shop Building Floor Plan: ADD Detail 5/A101 – Mezzanine Framing Concept Plan, as attached.

Item No. 35: Sheet A311, Wall Sections A, D and E - Shop Building: CLARIFICATION: 4” precast concrete wainscot panels shall be site-cast tilt-up panels reinforced with #4 @ 18” o.c. each way.

Item No. 36: Sheet A311, Wall Section B - Shop Building: REVISE wall insulation to be R-21 within the 6” stud wall.

Item No. 37: Sheet A311, Wall Section C - Shop Building: REVISE construction callouts per attached Detail 3/A311.

Item No. 38: Sheet A311, Wall Section D – Shop Bldg.: ADD the following note to Wall System: “Install hat channels at 16” o.c. vertical to support interior plywood wainscot, typical.”

- Item No. 39:** Sheet A312, Wall Sections H and J: REVISE note for crawl space vents to read as follows:
“8” x 16” aluminum crawlspace vent with min. 45 sq. in. net free area. Typical of 4. Install one vent in each side of foundation.”
- Item No. 40:** Sheet A312, Wall Sections H and J – Scale House: CLARIFICATION: Concrete foundation walls are continuous from top of footing to top of concrete (3’-4” above finished floor.) Walls are 6” thick with #4 @ 12” o.c. each way.
- Item No. 41:** Sheet A401, Detail A, Enlarged Plan - Office Area: REVISE dimensions and callouts per attached Detail A/A401 - Enlarged Office Plan.
- Item No. 42:** Sheet A401, Enlarged Plans, Interior Elevations and Details: ADD Detail 10/A401 per as attached.
- Item No. 43:** Sheet A401, Enlarged Plan - Office Area: ADD the following note:
“Interior partition construction is 3.5” steel studs @ 16” o.c. with 5/8” GWB each face unless noted otherwise. Extend partition 6” above ceiling and brace to structure. Install sound insulation in walls surrounding Office 102, Office 112, Women 111, Men 110, and Shower 109.”
- Item No. 44:** Sheet A501, Details: ADD Detail 18/A501 – Pre-Cast Concrete Panels, as attached.
- Item No. 45:** Sheet A601, Room Finish Schedule: ADD the following note:
“All exposed steel shall be field painted. Refer to specifications for shop priming of metal building components.”
- Item No. 46:** Sheet A601, Room Finish Schedule: CHANGE floor finish at Vestibule 107 to “WOC”
- Item No. 47:** Sheet A601, Room Finish Schedule: ADD Finish Material Legend as follows:
SV = Sheet Vinyl Flooring
RRF = Recycled Rubber (Tile) Flooring
WOC = Walk-off Carpet
Product: Welcome 59410 by Shaw Contract Group
Color: Charcoal 10119
Installation: Quarter-turn
RB = Resilient Base
FRP = Fiberglass Reinforced Plastic Wall Panels
- Item No. 48:** Sheet A601, Room Finish Schedule: ADD note to Room 104, Kitchen, as follows:
“Sheet vinyl floor finish shall be limited to a 5’ wide strip running the full width of this room, located immediately adjacent to the kitchen area casework (along north wall). Extend beneath refrigerator location.”
- Item No. 49:** Sheet S100, General Structural Notes, Design Loads, 2. Floor: ADD the following note:
“Mezzanine Floor Load = 125 PSF”
- Item No. 50:** Sheet S100, General Structural Notes, Design Loads, 4. Snow: CLARIFICATION:
Ground Snow Load per the SEAW is 24psf. 30psf is the minimum allowable for the roof.

Item No. 51: Sheet S100, General Structural Notes, Pre-Engineered Buildings: CHANGE Note 1 to read as follows:

“The PEMB design shall include all structural members including the mezzanine. The design and engineering of foundations is the responsibility of the Contractor.” A minimum of 4.4” thick lightweight concrete slab will be required on the mezzanine to achieve the required 3-hour fire rating for the floor assembly. All steel supporting this mezzanine floor structure, including beams and columns, shall have intumescent paint protection, per Section 078100, providing the same 3-hour rating. Intumescent paint is not required on the metal decking beneath the concrete slab. The intumescent paint bid can be estimated from the Concept Mezzanine Framing Design included with this addendum, but final costs shall be adjusted prior to bid from the building manufacturer’s final design.

Item No. 52: Sheet S100, General Structural Notes, Pre-Engineered Buildings: CLARIFICATIONS: Interior partitions, including the fire partition on grid “6” shall NOT be designed as either bearing or shear walls.

There are no collateral loads required for the Mezzanine.

Notes 3, 4 and 6 are not applicable to the Recycling Building.

Item No. 53: Sheet S100, General Structural Notes, Pre-Engineered Buildings: ADD note 7 as follows:

“Recycling Building shall be a pre-engineered, wood pole building structure. Contractor is responsible for complete structural design, including concrete footings. Design loads shall be as indicated on this sheet. Refer to sheet A103 for building configuration.”

Item No. 54: Sheet E001, Fixture Schedule: ADD light fixture type F9E, similar to F9 but with emergency ballast.

Item No. 55: Sheet E001, Floor Plan – Shop Building - Lighting: CHANGE three light fixtures type F1E in Mech Rm M102, Mezzanine M101 and below the mezzanine to type F9E.

Item No. 56: Sheet E202, Shop Building Floor Plans: Power & Systems: The fire alarm and warning system is deleted from the project. On sheet E202 delete the Fire Alarm Control Panel, all strobes and combination horn/strobes, manual pull stations, heat detectors, and smoke detectors. Fire/Smoke dampers and duct smoke detectors are to remain. Duct smoke detector to be a stand-alone system; Simplex 4098-9687 duct detector and 4098-9842 control station, or equal. Wire detector to shut down HVAC on detection of smoke.

SUBSTITUTION PRIOR APPROVALS

Spec Section

<i>or Drawing No.</i>	<i>Item</i>	<i>Manufacturer and/or Product Accepted</i>	
Specification 074113	Metal Soffit Panels	McElroy "Maxima 3:24" 24 Ga. w/ Kynar finish (<i>Must use "Architectural Color Chart" color selection</i>)	
Specification 074113	Metal Roof Panels	Metal Sales "Seam Loc" panel	
Specification 074113	Metal Roof Panels	Metal Sales "Flush Face: TLC-2" panel	
Specification 074113	Metal Roof Panels	AEP Span "Span-Lok -Pencil Ribbed", 16" width	
Specification 074213	Metal Wall Panels	McElroy "R-Panel" 24 Ga. w/ Kynar finish (<i>Must use "Architectural Color Chart" color selection</i>)	
Specification 074213	Metal Wall Panels	Metal Sales "PBR-Panel/R-Panel"	
Specification 133419	Metal Building	Nucor Building System (Manufacturer) (<i>Nucor Standard colors not accepted - must use one of pre-approved metal roof/wall panel color selections or custom color to match Fabral, as specified</i>)	
Specification 133419	Metal Building	Varco Pruden panel colors, "Architectural Roof Colors" chart for wall and roof panels.	
Specification 133419	Metal Building (insulation)	Owens Corning Optiliner Banded Liner System	
Drawing E001	Fixture Schedule	Approved, as follows:	
<i>Type</i>	<i>Manufacturer</i>	<i>Brand</i>	<i>Catalog Number</i>
E1	Cooper	Sure-Lites	LPX7
F1	Cooper	Metalux	8TICF-254T5-UNV-EBT1-PAF-U
F1E	Cooper	Metalux	8TICF-254T5-277V-EBT1-PAF-U
F2	Cooper	Metalux	BE-132-UNV-EB81-U
F3	Cooper	Portfolio	C6113E
F3	Cooper	Portfolio	6281LI2
F4	Cooper	Metalux	GC-132A125-UNV-EB81-U
F4E	Cooper	Metalux	GC-132A125-UNV-EB81-U w/IOTA I-320
F5	Cooper	Metalux	2GC8-432A125-UNV-ER82-U
F6	Cooper	Metalux	2GC8-332A125-UNV-ER81-U
F6E	Cooper	Metalux	2GC8-332A125-277V-EL-I320-U
F7	Cooper	Metalux	SNF-154T5-UNV-EBT1-PAF-U
F8	Cooper	Metalux	2GC8-232A125-UNV-ER81-U
F8E	Cooper	Metalux	2GC8-232A125-277V-EL-I320-ER81-U
F9	Cooper	Metalux	ICF-254T5-UNV-EBT1-PAF-U
S1	Cooper	McGraw-Ed	TLM-250-MP-MT-3S-FG-BZ
S1	Cooper	Poles	RSS4A20SFM1
S2	Cooper	McGraw-Ed	TLM-250-MP-MT-4S-FG-BZ
S2	Cooper	Poles	RSS4A20SFM1
S3	Cooper	Invue	VWM-250-MP-MT-3S-BZ-L
S4	Cooper	Invue	VWM-250-MP-MT-4S-BZ-L
S5	Shaper Lighting.		Shaper. 697-WP-1/42CFL-277-BM
0SC	Lutron	Lutron	LOS-CDT-2000-W

Grant County Landfill Complex
Ephrata, WA

Attachments: Pre-Bid Meeting Sign-In Sheet
Section 323113 - Chain Link Fencing
Section 034713 - Tilt-Up Concrete
Detail 2/AC102 - Foundation at Scale
Detail 3/A101 – Shop Floor Slab Elevations
Detail 4/A101 - 3-Hour Fire Partition
Detail 5/A101 – Mezzanine Framing Concept Plan
Detail 3/A311 - Mezzanine Section
Detail A/A401 - Enlarged Office Plan
Detail 10/A401 - Locker Details
Detail 18/A501 – Precast Concrete Panels

END OF ADDENDUM NO. 1



ZECK BUTLER ARCHITECTS P.S.

Project:	<u>GRANT COUNTY LANDFILL COMPLEX</u>	PN:	<u>1009</u>
Meeting:	<u>Grant County Public Works Administrative Offices</u>	Date:	<u>June 15, 2011</u>
Location:	<u>(Reconvene on Project Site after initial meeting)</u>	Time:	<u>1:00 PM</u>

Meeting Attendance
Sign-In Sheet

Name	Company / Organization	Phone No.
Bill Froemke	zeck Butler Architects	(509) 456-8236
Eric Halme	Halme Builders	(509) 725-1200
Don Halme	Halme Builders	509 725-1200
Tom McClure	Graham	(509) 534-1030 (509) 868-4777
Carrie Sullivan	William Charles West	509-783-9031
SYLVIA TROXCLAIR	FISHER + SONS	509-737-7605
RAUL "RUDY" SANLLETZ	CONCORD CONSTR.	509-848-3363
Garry Kweeden	North central CONST. INC.	509-765-5885
Darrell Appleby	North Central Const.	509 765 5885
Randy Rugh	CORRELLS SCALE SERVICE	509-765-7754
Mark Hampton	BUDGET Construction	509-663-9800
LUCAS BISSONETTE	SYSTEMS WEST	509-452-5000
Jim Blew	Blew's Construction	509-994-3363
Scott Blew	Blew's Construction	509 928 6227
Ben Smith	Northwestern Construction	509-535-3055
Warren Moore	"	"
JANCE GOODEW	GCSW	509 754-6082
Dave Ranger	Mountain States Const. Co.	509-837- 6822 6822

SECTION 321313 – CHAIN LINK FENCING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Condition apply to this section.

1.2 SUMMARY

- A. This section includes the following:
 - 1. Galvanized steel chain-link fabric.
 - 2. Galvanized steel framework.

1.3 DEFINITIONS

- A. CLFMI: Chain-link Fence Manufacturers Institute

1.4 SUBMITTALS

- A. Product Data: Material descriptions, construction details, dimensions of individual components and profiles, and finishes for the following:
 - 1. Fence and gateposts, rails and fittings.
 - 2. Chain-link fabric, reinforcements, and attachments.
 - 3. Gates and hardware.
- B. Shop drawings: Show locations of fence, each gate, pods, rails, and tension wires and details of extended posts, extension arms, gate swing or other operation, hardware, and accessories. Indicate materials, dimensions, sizes, weights, and finishes of components. Include plans, elevations, sections, gate swing and other required installation and operational clearances, and details of post anchorage and attachment bracing.

1.5 QUALITY ASSURANCE

- A. Supplier Qualifications: An experienced supplier with 5 year's experience with type of fencing and gates including with this project.
- B. Installer Qualifications: An experienced installer with 3 year's experience who has completed chain-link fences and gates similar in material design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

- C. Design, supply of equipment and components, installation, and on-call service shall be product of individual company with record of installations meeting requirements specified.

1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify layout information for chain-link fences and gates shown on drawings in relation to property survey and structures. Verify dimensions by field measurements.

1.7 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under the other provisions of the Contract Documents and shall be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

PART 2 - PRODUCTS

2.1 CHAIN-LINK FENCE FABRIC

- A. Steel Chain-link Fence Fabric: Height indicated on drawings. Provide fabric fabricated in one-piece widths for fencing in height of 12 feet (3.6 m) and less. Comply with CLFMI's Product Manual: and with requirements indicated below.
 1. Mesh and Wire Size: 2-inch (50-mm) mesh, 0.148-inch (3.76-mm) diameter.
 2. Zinc-Coated Fabric: ASTM A 392, with zinc applied to steel wire before weaving according to ASTM A 817, Type 1 zinc coated (galvanized) with the following minimum coating weight.
 - a. Class 1: Not less than 1.2 oz/sq. ft. (61.0 g/sq. m) of uncoated wire surface.
 - b. Selvage: Twisted at top selvage and knuckled at bottom.

2.2 INDUSTRIAL FENCE FRAMING

- A. Steel Chain-link Fence Fabric: Standard weight, Schedule-40, galvanized steel pipe complying with ASTM F 1083. Comply with ASTM F 1043, Material Design Groups IA or IC, external coating Type A, consisting of not less than 1.8-oz/sq. ft. zinc; and the following strength and stiffness requirements:
 1. Line, End, Corner, and Pull Posts and Top Rail: Per requirements for Heavy Industrial Fence.

- B. Post Brace Rails: Match top rail for coating and strength and stiffness requirements. Provide brace rail with truss rod assembly for each gate, end, and pull post. Provide two brace rails extending in opposing directions, each with truss rod assembly, for each corner post and for pull posts. Provide rail ends and clamps for attaching rails to posts.
- C. Top Rails: Fabricate top rail from lengths 21 feet (6.4 m) or longer, with 6" minimum sleeve, forming a continuous rail along top of chain-link fabric.
- D. Extended Members: Extend end and corner pull posts above top of chain-link fabric 12 inches (300 mm) as required to attach barbed wire assemblies.

2.3 CONCRETE

- A. Concrete: Provide concrete consisting of portland cement per ASTM C 150, aggregates per ASTM C 33, and potable water. Mix materials to obtain concrete with a minimum 28-day compressive strength of 3000 psi. Use at least four sacks of cement per cu. yd., 1-inch maximum size aggregate, 3-inch maximum slump.

2.4 GATES

- A. Manual Gate Operation: Opened and closed easily by one person.
- B. Metal Pipe and Tubing: Galvanized steel. Comply with ASTM F1043 and ASTM F1083 for materials and protective coatings.
- C. Frames and Bracing: Fabricate members from round galvanized steel tubing with outside dimension and weight according to ASTM F900.
- D. Gate leaves more than 8 feet wide shall have intermediate tubular members and diagonal truss rods to provide rigid construction, free from sag or twist.
- E. Gate Fabric Height: Same as for adjacent fence height.
- F. Welded Steel Joints: Paint with zinc-based paint.
- G. Chain Link Fabric: Attached securely to gate frame at intervals not exceeding 15 inches.

2.5 INDUSTRIAL SWING GATES

- A. General: Comply with ASTM F 900 for the following swing-gate type
 - 1. Single gate.
 - 2. Double gate.

- B. Metal Pipe and Tubing: Galvanized steel. Comply with ASTM F 1083 and ASTM F 1043 for materials and protective coatings.
- C. Frames and Bracing: Fabricate members from round, galvanized steel tubing with outside dimension and weight according to ASTM F 900.
- D. Frame Corner Construction: As follows:
 - 1. Welded.
- E. Gate Posts: From round galvanized steel pipe with outside dimension and weight according to ASTM F 900 for the gate fabric heights and leaf widths.
- F. Hardware: Latches permitting operation from both sides of gate, hinges, center gate stops and, for each gate leaf more than 5 feet (1.5 m) wide, keepers. Fabricate latches with integral eye openings for padlocking; padlock accessible from both sides of gate.

2.6 INDUSTRIAL HORIZONTAL SLIDE GATES

- A. General: Comply with ASTM F 1184 for the following slide-gate types:
 - 1. Single gate.
 - 2. Classification: Type II Cantilever Slide, Class 1 with external roller assemblies.
- B. Frames and Bracing: Fabricate from round galvanized steel tubing with outside dimension and weight according to ASTM F 1184 for the following gate characteristics:
 - 1. Gate Fabric Height by Opening Width:
 - a. Same as for adjacent fence height.
 - b. Attached securely to gate frame at intervals not exceeding 15 inches.
 - 2. Frame Corner Construction:
 - a. Welded.
 - 3. Type II Cantilever Slide Gates:
 - a. Welded.
- C. Fabricate members from round galvanized steel pipe with outside dimension and minimum weight according to ASTM F 1184 for the gate characteristics:
 - 1. Type II Gate Opening Width: Over 12 feet (3.7 m) but not over 30 feet (9.1 m).
- D. Guide Posts and Roller Guards: As required per ASTM F 1184 for Type II, Class 1 gates.

- E. Hardware: Latches permitting operation from both sides of gate, locking devices, hangers, roller assemblies and stops fabricated from galvanized steel. Fabricate latches with integral eye openings for padlocking; padlock accessible from both sides of gate.
- F. Manual Gate Operation: Opened and closed easily by one person.

2.7 FITTINGS

- A. General: Provide fittings for a complete fence installation, including special fittings for corners, Comply with ASTM F 626,
- B. Post and Line Caps: Hot-dip galvanized pressed steel or hot-dip galvanized cast iron, provide weather tight closure cap for each post.
 - 1. Provide line post caps with loop to receive tension wire or top rail.
- C. Rail and Brace Ends: Hot-dip galvanized pressed steel or hot-dip galvanized cast iron, provide rail ends or other means for attaching rails securely to each gate, corner, pull, and end post.
- D. Rail Fittings: Provide the following:
 - 1. Top Rail Sleeves: Hot-dip galvanized pressed steel or round steel tubing. Not less than 6 inches (153 mm) long.
 - 2. Rail Clamps: Hot-dip galvanized pressed steel. Provide line and corner boulevard clamps for connecting bottom rails in the fence line to line posts.
- E. Tension and Brace Bands: Hot-dip galvanized pressed steel.
- F. Tension Bars: Hot-dip galvanized steel, length not less than 2 inches (50 mm) shorter than full height of chain-link fabric. Provide one bar for each gate and end post, and two for each corner and pull post, unless fabric is integrally woven into post.
- G. Truss Rod Assemblies: Hot-dip galvanized steel rod and turnbuckle or other means of adjustment.
- H. Tie Wires, Clips, and Fasteners: Provide the following types according to ASTM F 626:
 - 1. Standard Round Wire Ties: For attaching chain-link fabric to posts, rails, and kames, complying with the following:
 - a. 9 gauge aluminum
 - 2. Round Wire Hog Rings: Hot-dip galvanized steel or aluminum for attaching chain-link fabric to horizontal tension wires.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Stake locations of fence lines, gates; and terminal posts. Do not exceed intervals of 500 feet (152.5 m) or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.2 INSTALLATION, GENERAL

- A. General: Install chain-link fencing to comply with ASTM F 567 and more stringent requirements specified.
 - 1. Install fencing on established boundary lines inside property line.
- B. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacing's indicated, infirm, undisturbed or compacted soil.
- C. Post Setting: Hand-excavate holes for post foundations in firm, undisturbed or compacted soil. Set terminal, line, gate, and gate, operator-mounting posts in concrete footing. Protect portion of posts above ground from concrete splatter. Place concrete around posts and vibrate or tamp for consolidation. Using mechanical devices to set line posts per ASTM F 567 is not permitted. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during placement and finishing operations until concrete is sufficiently cured.
 - 1. Exposed Concrete Footings: Extend concrete 2 inches (50 mm) above grade, smooth, and shape to shed water.

3.3 CHAIN-LINK FENCE INSTALLATION

- A. Terminal Posts: Locate terminal end, corner, and gate posts per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more.
- B. Line Posts: Space line posts uniformly at 10 feet (3.05 m) O.C.
- C. Post Bracing Assemblies: Install according to ASTM F 567, maintaining plumb position an alignment of fencing. Install braces at end and gate posts and at both sides of corner and pull posts. Locate horizontal braces at mid-height of fabric on fences with top rail and at two-thirds fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.
- D. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended by fencing manufacturer.

- E. Chain-Link Fabric: Apply fabric to outside of enclosing framework. Leave 2 inches (50 mm) between finish grade or surface and bottom selvage, unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.
- F. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15 inches (380 mm) O.C.
- G. Tie Wires: Use wires of proper length to fully secure fabric to line posts and rails. Attach wire, at one end to chain-link fabric, wrap wire around post a minimum of 180 Degrees, and at the other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.

3.4 GATE INSTALLATION

- A. General: Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.
 - 1. Gate: Adjust gate to operate smoothly, easily, and quietly, free from binding, warp, excessive deflection, distortion, nonaligned, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

3.5 ADJUSTING

- A. Gates: After repeated operation of completed installation equivalent to 3 days' use by normal traffic, readjust gates for optimum operating condition and safety. Lubricate operating equipment and clean exposed surfaces.

END OF SECTION 323113

SECTION 034713 - TILT-UP CONCRETE

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Structural Performance: Design and construct tilt-up wall panels to withstand lifting and bracing loads and impact from adjoining panels.
- B. Submittals: Shop Drawings and concrete mix designs.
- C. Ready-Mixed Concrete Producer Qualifications: ASTM C 94/C 94M.
- D. Comply with ACI 301, "Specification for Structural Concrete"; CRSI's "Manual of Standard Practice"; and AWS D1.1
- E. Mockups: Construct mockup panel for verification of quality and finish to be acceptable.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Reinforcing Bars: ASTM A 615, Grade 60 (ASTM A 615M, Grade 420), deformed.
- B. Deformed-Steel Welded Wire Reinforcement: ASTM A 497, flat sheet.
- C. Portland Cement: ASTM C 150, Type 1.
- D. Fly Ash: ASTM C 618, Type F.
- E. Aggregates: ASTM C 33, uniformly graded.
 - 1. Facing Aggregates: Selected sand and hard and durable coarse aggregates, uniformly graded.
- F. Air-Entraining Admixture: ASTM C 260.
- G. Chemical Admixtures: ASTM C 494, water reducing. Do not use calcium chloride or admixtures containing calcium chloride.
- H. Bond Breaker: Polymerized material containing no oils, waxes, paraffins, or silicones, and compatible with casting-slab curing compound.
- I. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.

- J. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B.
- K. Form Retarder: Chemical liquid set retarder, for application on hardened concrete and capable of temporarily delaying final hardening of newly placed concrete to depth of reveal specified.
- L. Anchors and Inserts: Inserts, dowels, bolts, nuts, washers, and other items to be cast into panels, for connecting panels to adjacent work, and lifting inserts.

2.2 MIXES

- A. Prepare design mixtures for each type and strength of concrete, proportioned according to ACI 301 as follows:
 1. Compressive Strength: 4000 psi (27.6 MPa) at 28 days.
 2. Slump Limit: 4 inches (100 mm) for concrete with verified slump of 2 to 4 inches (50 to 100 mm) before adding high-range, water-reducing admixture or plasticizing admixture, plus or minus 1 inch (25 mm).
 3. Air Content: 6 percent plus or minus 1.5 percent.

PART 3 - EXECUTION

3.1 CASTING

- A. Apply bond breaker to casting slabs in two coats.
- B. Apply form retarder uniformly to casting slab. Apply mold release first and allow to dry if recommended by manufacturer of form retarder.
- C. Place and secure forms without damaging casting slab surfaces.
- D. Set and tie reinforcing steel without damaging bond-breaker film. Locate and secure cast-in-place anchorages and inserts.
- E. Cast panels and comply with ACI 117 tolerances for precast, non-prestressed concrete.
- F. Finishes: Float and trowel finish unexposed face-up surfaces. Uniformly abrasive-blast finish face-down concrete surfaces exposed to exterior.
- G. Begin curing and sealing unformed concrete after finishing.

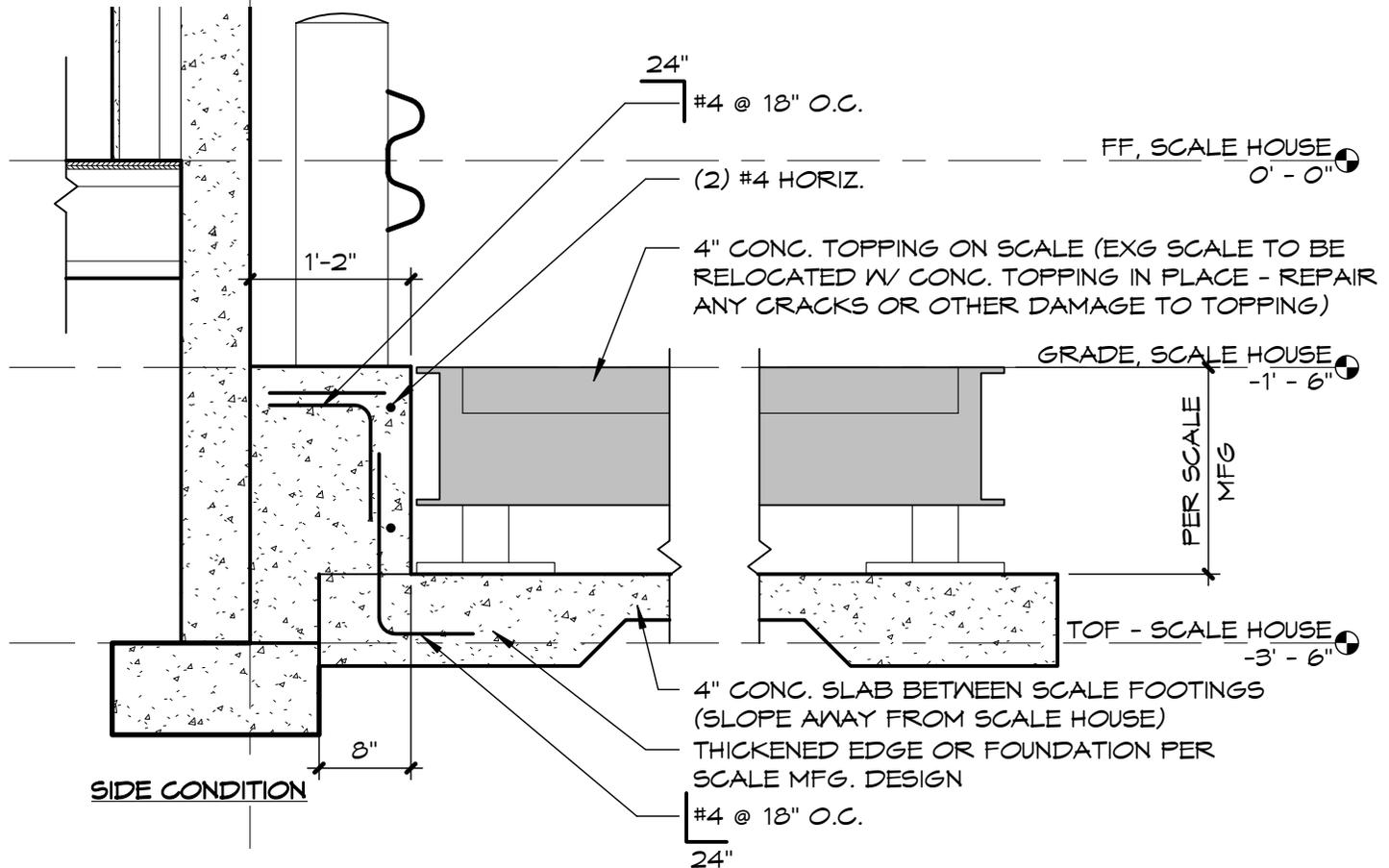
3.2 ERECTION

- A. Do not damage floor slabs with erection equipment.
- B. Erect panels only after 75 percent of 28-day compressive strength has been attained.

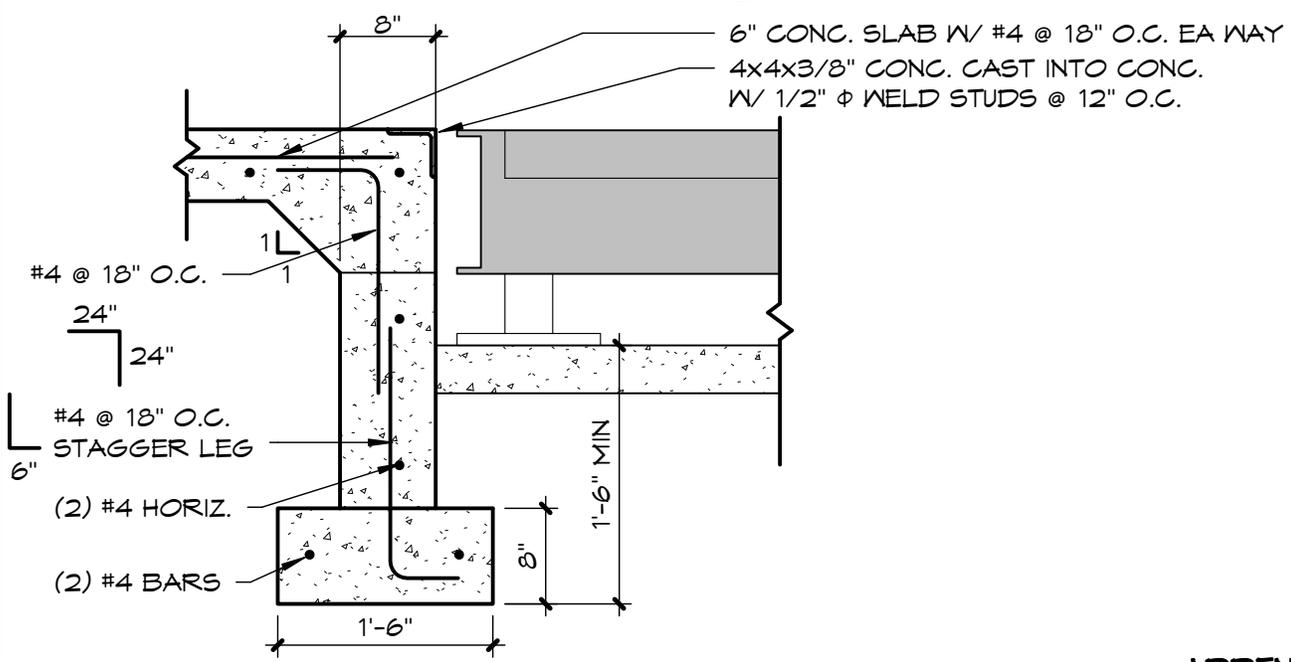
- C. Tilt and raise panels and erect plumb. Accurately position and align panels and anchor in place. Grout-fill joint between panel and foundation system. Securely brace and shore panels until supporting structure has been installed.
- D. Installation Tolerance: 1/4-inch (6-mm) maximum offset in alignment with adjacent members at any point.
- E. Weld panels to supports according to AWS D1.1 for welded steel connections.
- F. Patch holes in panel surfaces caused by lifting and bracing devices.
- G. Panels with cracks, voids, protrusions, spalls, or nonuniform color or texture will not be approved. Repairs will be permitted only if approved by Architect. Remove and replace defective or damaged panels.

END OF SECTION 034713

S2



SIDE CONDITION



END/APPROACH CONDITION

ADDENDUM NO. 1

ZECK BUTLER ARCHITECTS PS



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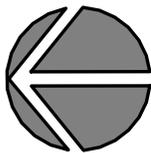
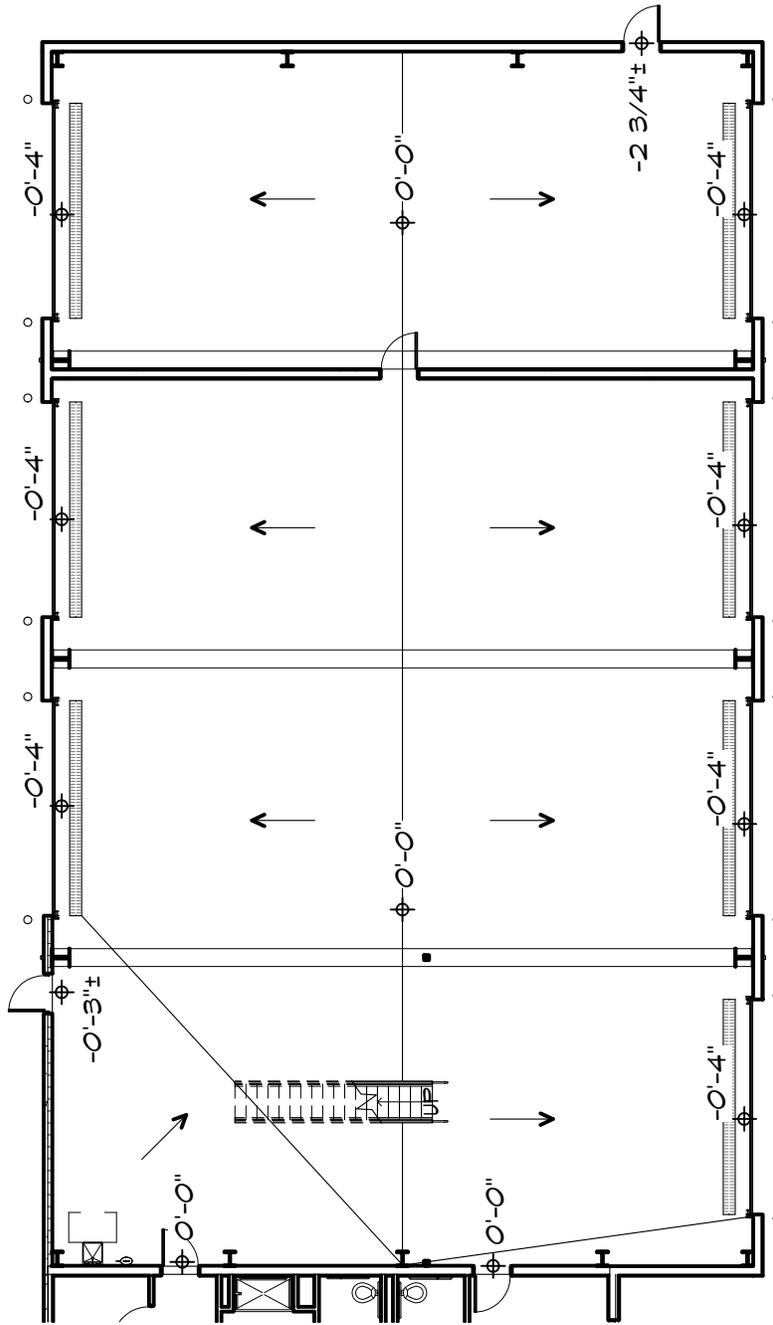
GRANT COUNTY PUBLIC
 WORKS DEPARTMENT

FDN AT SCALE

Project number	1009
Date	06/16/11
Drawn by	SEMB
Checked by	NAF

2/AC102

Scale 3/4" = 1'-0"



PLAN
NORTH

ADDENDUM NO. 1

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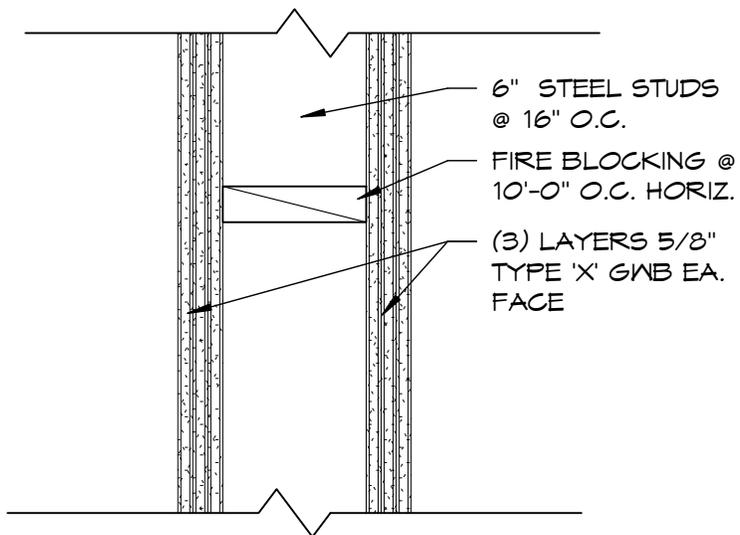
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WORKS DEPARTMENT

SHOP FLOOR ELEVATIONS

Project number	1009
Date	06/10/11
Drawn by	SEMB
Checked by	RSV

3/A101

Scale 1/16" = 1'-0"



ADDENDUM NO. 1

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3-HOUR FIRE PARTITION

Project number 1009

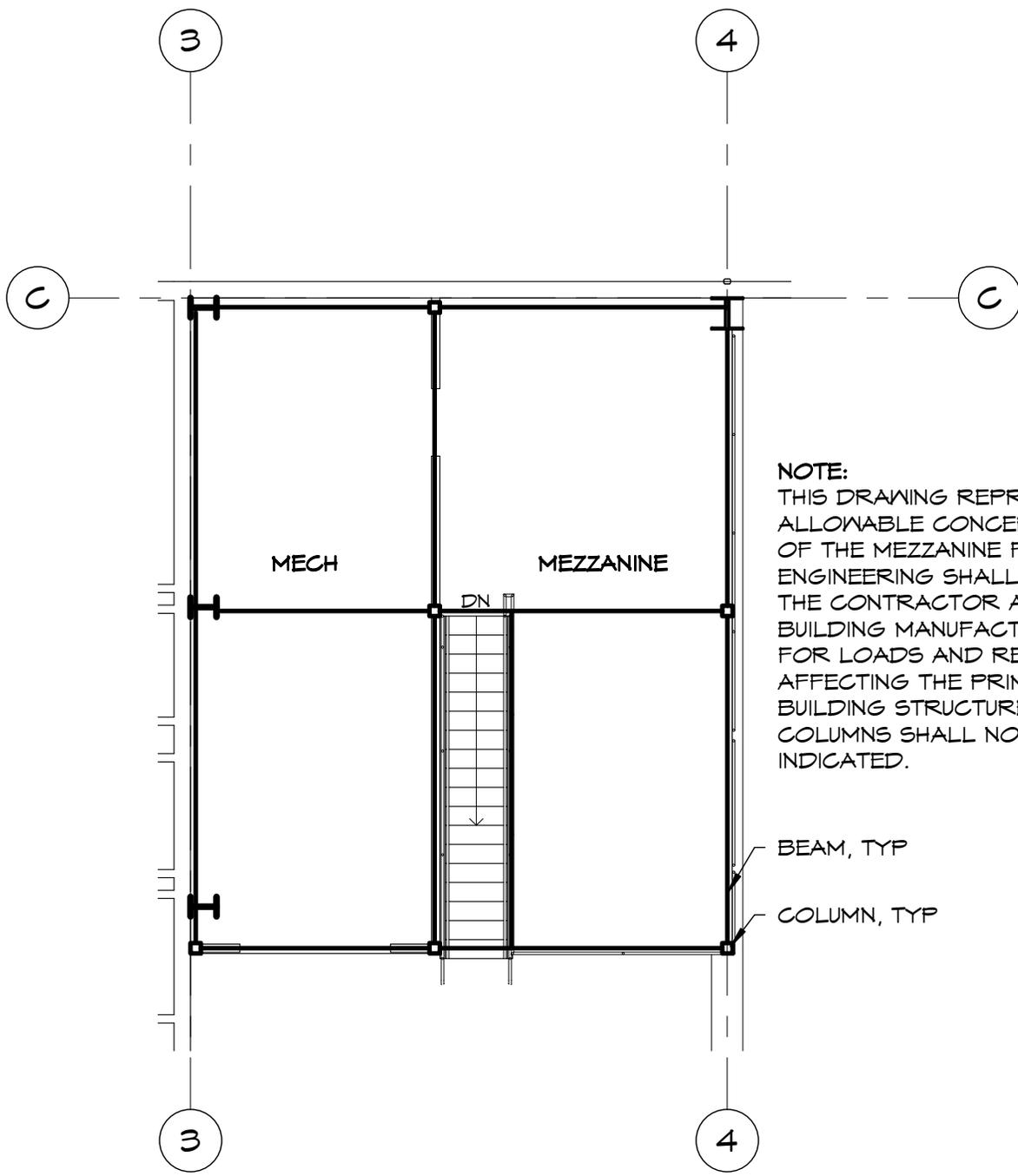
Date 06/13/11

Drawn by SEMB

Checked by RSV

4/A101

Scale 1 1/2" = 1'-0"



NOTE:
 THIS DRAWING REPRESENTS AN ALLOWABLE CONCEPT FOR FRAMING OF THE MEZZANINE FLOOR. ALL ENGINEERING SHALL BE PROVIDED BY THE CONTRACTOR AND/OR METAL BUILDING MANUFACTURER TO ACCOUNT FOR LOADS AND REACTIONS AFFECTING THE PRIMARY METAL BUILDING STRUCTURE. NUMBER OF COLUMNS SHALL NOT EXCEED THOSE INDICATED.

BEAM, TYP
 COLUMN, TYP

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MEZZANINE FRAMING CONCEPT		5/A101
Project number	1009	
Date	06/21/11	
Drawn by	SEMB	
Checked by	RSV	Scale 1/8" = 1'-0"

3

WALL/ROOF FLASHING

METAL ROOF PANELS

MECH.
ROOM

1
MEZZANINE FLOOR
MIN. 4.4" THICK LIGHTWEIGHT
CONCRETE OVER
STRUCTURAL METAL DECKING

RETURN (3) LAYERS 5/8"
GNB TO MEZZANINE DECK
TO COMPLETE 3-HOUR
ASSEMBLY

1
3-HOUR PROTECTION
PROVIDE 3-HOUR
INTUMESCENT COATING ON
STEEL MEZZANINE
STRUCTURE, INCLUDING,
COLUMNS AND BEAMS

HARD-LID CEILING
5/8" GNB
HAT CHANNELS @ 24" O.C.
2 1/2" RUNNERS @ 24" O.C.
WIRE HANGER TIES

ADDENDUM NO. 1

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SECTION C

Project number 1009

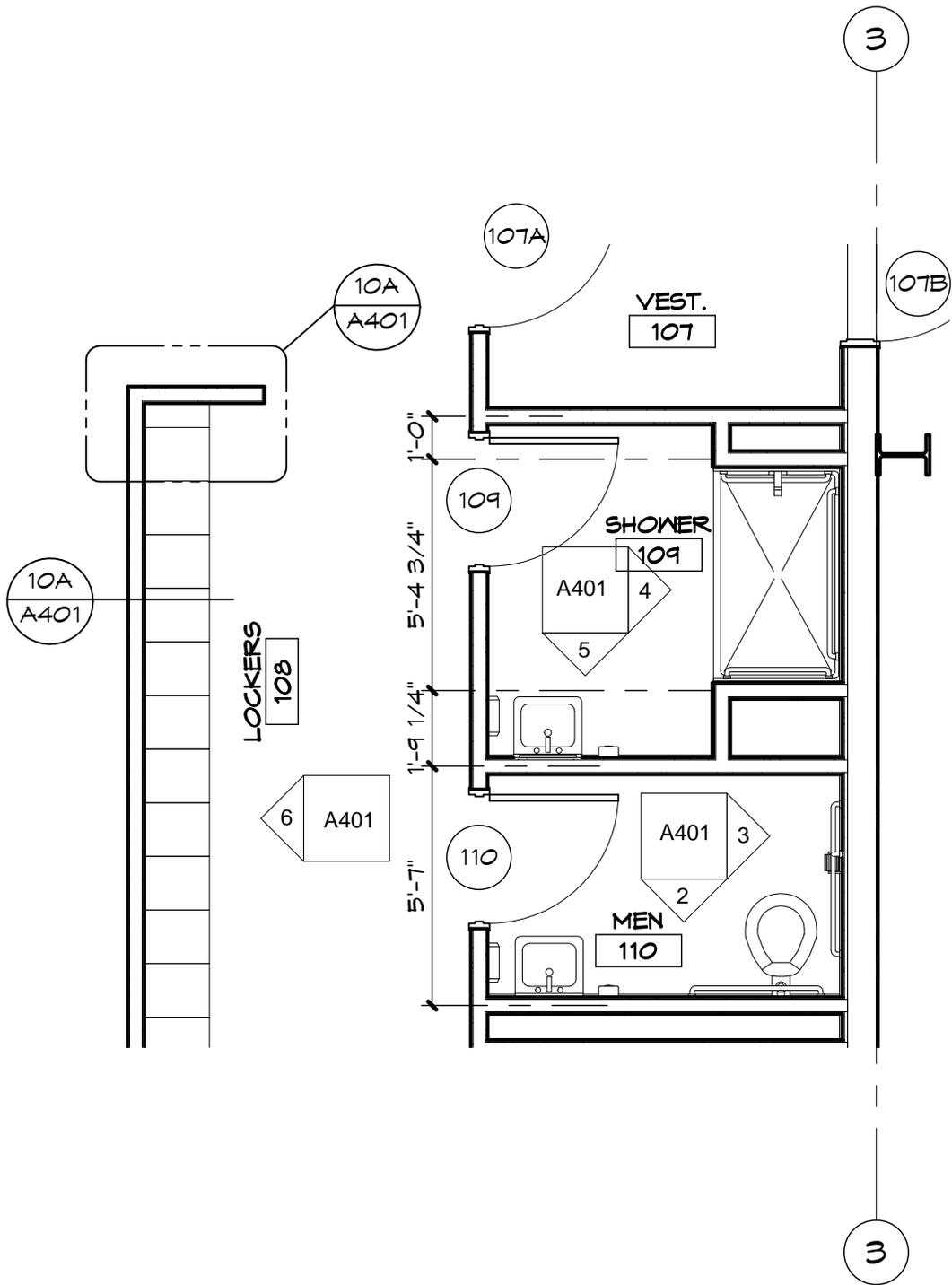
Date 06/13/11

Drawn by SEMB

Checked by RSV

3/A311

Scale 3/4" = 1'-0"



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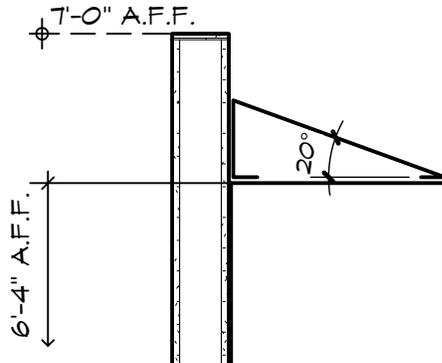
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ENLARGED OFFICE PLAN

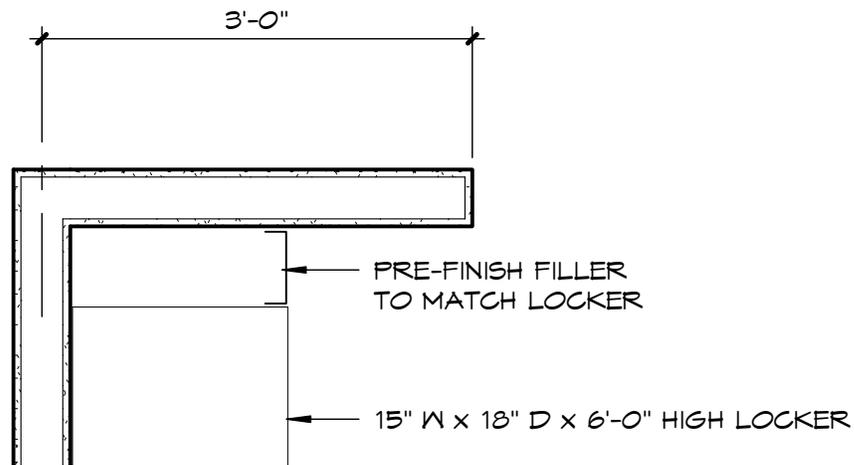
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Date	06/20/11
Drawn by	SEMB
Checked by	RSV

A/A401

Scale 1/4" = 1'-0"



(A) LOCKER TOP
 3/4" = 1'-0"



(B) END WALL @ LOCKER
 3/4" = 1'-0"

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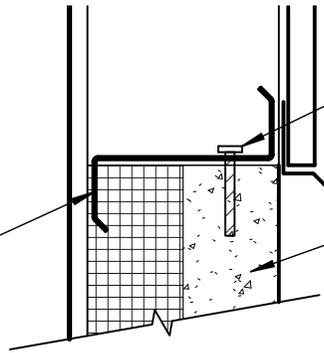
LOCKER DETAILS

Project number	1009
Date	06/20/11
Drawn by	Author
Checked by	Checker

10/A401

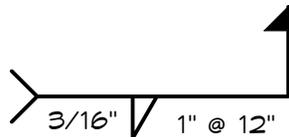
Scale 3/4" = 1'-0"

FEMB GIRTS TO BE DESIGNED TO SUPPORT OUT OF PLANE LOADS TRANSFERRED FROM CONCRETE PANELS

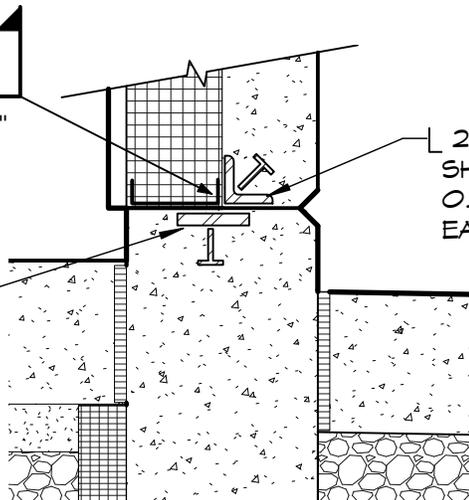


1/2" x 4" TITEN HD CONCRETE SCREWS OR SIMILAR @ 36" O.C.

3'-4" OR 8'-0" HIGH CONC. PANEL, SEE EXT. ELEV. (8'x8' MAX.)



3"x1/2" CONT. PLATE W/ 3/8"x5" SHEAR STUDS @ 36" O.C. MIN. 6" FROM EACH END



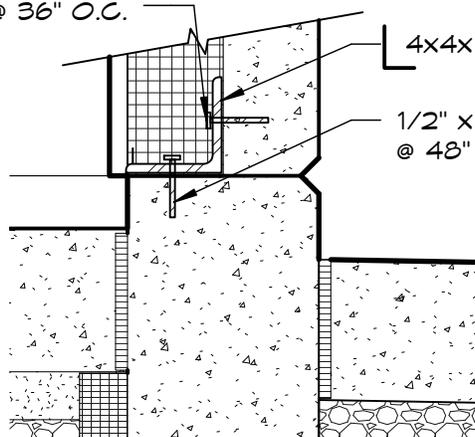
2x2x1/4" W/ 3/8"x5" SHEAR STUDS @ 36" O.C. MIN. 6" FROM EACH END

*CONTRACTOR MAY USE AN ALTERNATE CONNECTION UPON APPROVAL BY OWNER/ENGINEER

A PRECAST CONC. PANELS

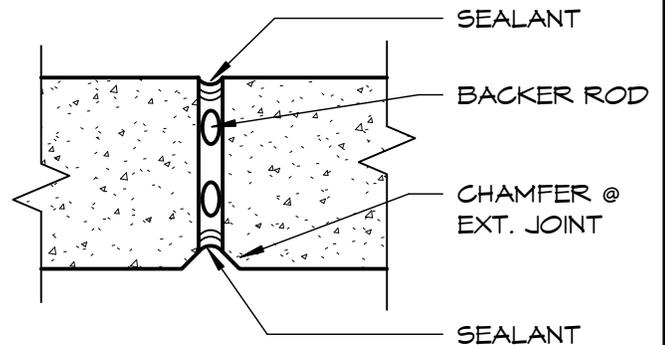
1 1/2" = 1'-0"

1/2"x3" TITEN HD @ 36" O.C.



4x4x1/4" X CONT.

1/2" x 3" TITEN HD @ 48" O.C.



SEALANT

BACKER ROD

CHAMFER @ EXT. JOINT

SEALANT

B ALTERNATE

1 1/2" = 1'-0"

C TYP. PANEL JOINT

3" = 1'-0"

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ZB(a)

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PRECAST CONC. PANELS

Project number 1009

Date 06/21/11

Drawn by SEMB

Checked by RSV

18/A501

Scale As indicated