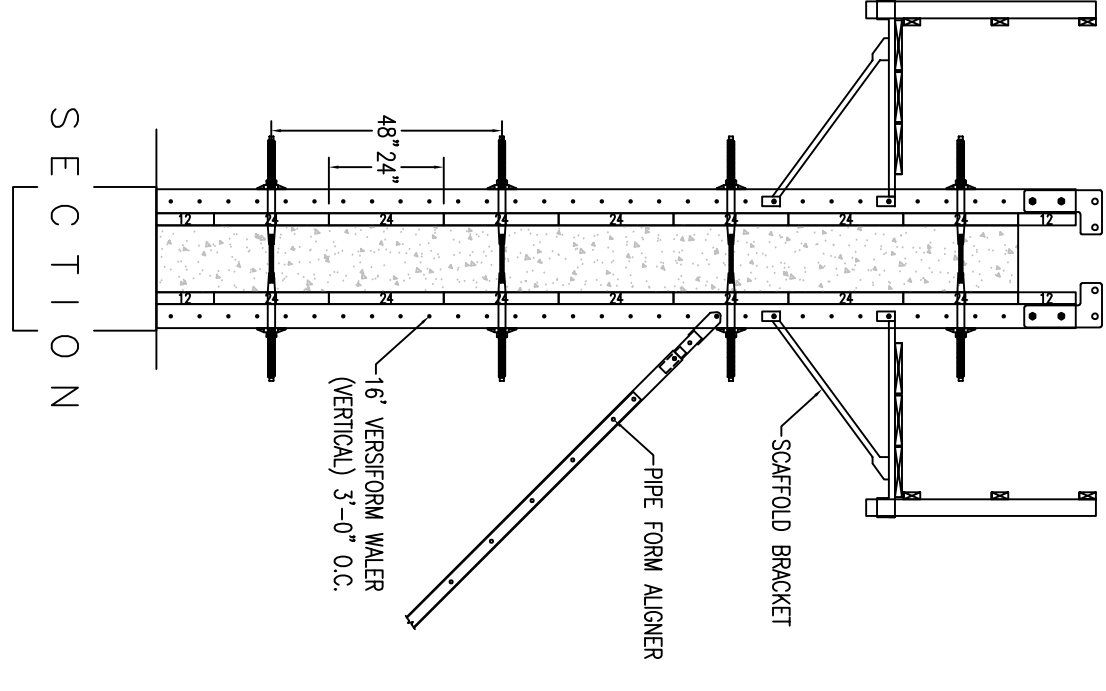
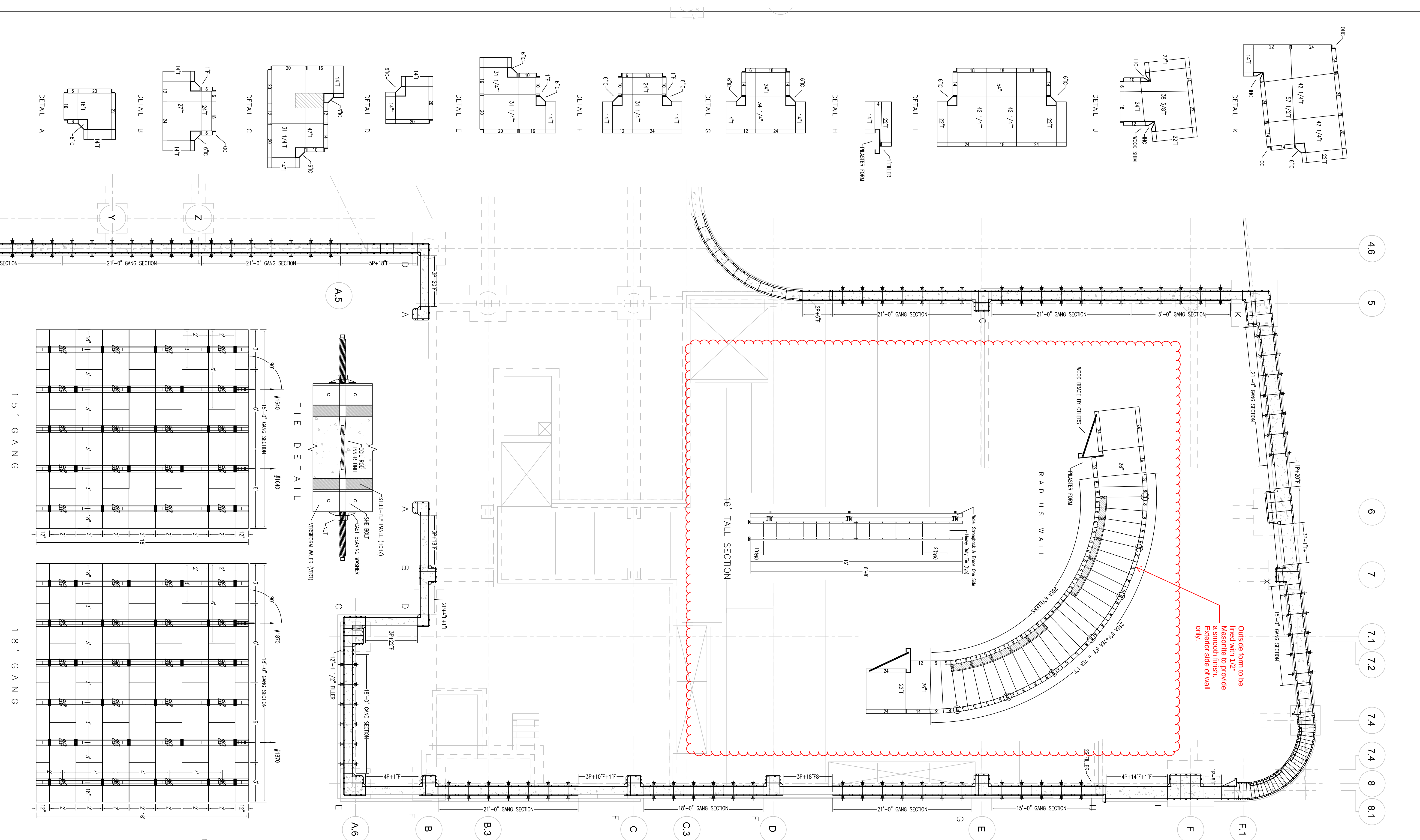




NOTES

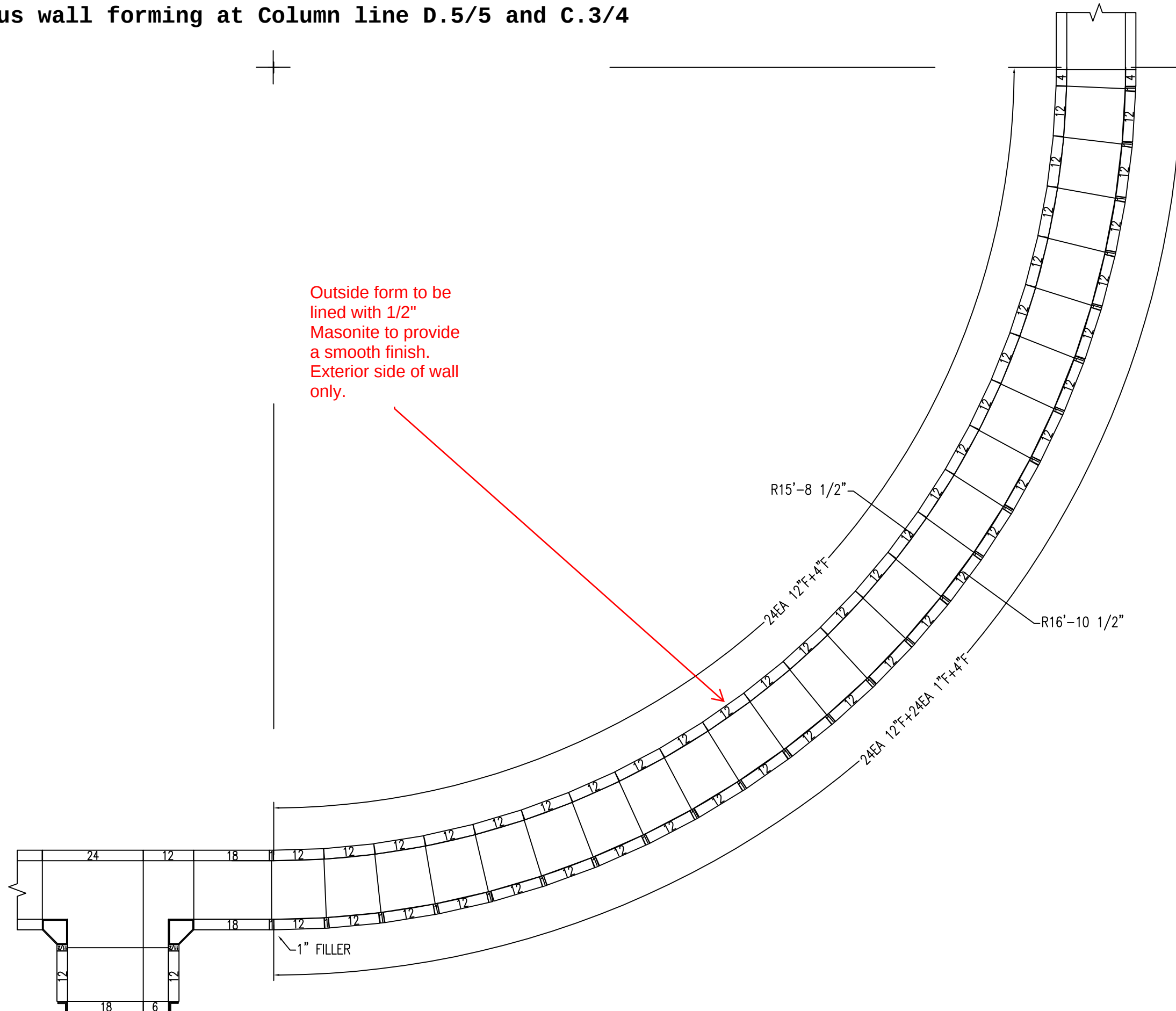
- This print is the property of Vernon L. Goedecke Company, Inc., and has been prepared for your use solely in considering the purchase or rental of the equipment described. This layout is intended only to demonstrate the arrangement of our equipment under loads designated in the layout and is not intended to set forth the details of construction or the design of the structure in which our equipment is to be used because such items are the responsibility of the contractor.
- Customer should verify all dimensions and check all details with field conditions.
- Customer shall be responsible for the design and adequacy of all materials not furnished by us. The design and adequacy of supporting structures, and for any other conditions beyond our control.
- We are not to be responsible for any deviation from the enclosed print in the arrangement of our equipment, unless such deviation is approved by us in writing.

FACTORS EFFECTING CONCRETE PRESSURE 1. WEATHER - Cold weather will delay setting up of the concrete, increasing liquid head, thus adding to the pressure. 2. A FAST POUR - The higher the rate of pour, the greater the pressure. 3. VIBRATION - In addition to keeping the concrete liquid (high hydrostatic pressure), vibration adds a pounding or impact pressure. Accordingly, vibration should be handled with great care. 4. DUMPING OF CONCRETE BY BUCKET OR OTHERWISE - If concrete is dumped an additional impact pressure is added to the concrete. 5. RETARDING ADDITIVES- Cause greater than normal liquid head for a given rate of pour. NOTE: When any of the above conditions exist, extra care should be exercised in pouring and additional ties used. Refer to ACI Manual SP-4 for additional factors effecting concrete pressure.			STEEL PLY NOTES 1. Wale and brace all joints where ties do not occur. 2. All fillers smaller than 1" are supplied by customer. 3. Do not try to force position of forms or ties by striking or hammering on ends of ties. 4. Lift handles are for manually moving forms and should not be used for any other purpose. 5. Always use keeper bolt with threaded tie nuts. 6. Toggle ties must be welded on both sides of toggle when attached to steel. 7. Allowable load on shearwall bracket is 2000 lbs. when anchored in 3000 psi concrete with 3/4" H.S. bolt. 8. Allowable load on Symons scaffold bracket is 500 lbs. Maximum spacing is 8 feet. 9. An additional slack cable sling is recommended when lifting ganged forms. Safe load on gang lift bracket is 2000 lbs.		
This Drawing is based on a maximum allowable concrete pressure of <u>800</u> lbs./sf. as determined by American Concrete Institute formulae and procedures. Safe load capacity of ties is <u>2250</u> lbs. at <u>2</u> to <u>1</u> safety factor unless noted otherwise.			DATE: 05-13-16 MATERIAL: SYMONS OWN BY: P.G.S. CHK'D: SCALE:		
Safe Working Load of Ties Standard wire - 2,250 lbs. Heavy Duty Wire - 3,000 lbs. Threaded std. wire - 2,100 lbs.			CONTR: KCI CONST JOB: WEBSTER UNIV FORM LAYOUT GOEDECKE 812 E Taylor Ave St. Louis Mo. 63147 314-652-1810		
DWG. NO. 1605-417 SHEET OF SHEETS REVISONS:					

R15'-8 1/2"-

R16'-10 1/2"

1" FILLER





KCI Construction Company, Inc.

ST. LOUIS: 10315 Lake Bluff Drive | St. Louis, MO 63123

LEBANON: 119 West Fremont | Lebanon, MO 65536

O: 314.894.8888

F: 314.894.7418

www.kciconstruction.com

SUBMITTAL DATA

WEBSTER UNIVERSITY INTERDISCIPLINARY SCIENCE BUILDING WEBSTER GROOVES, MISSOURI

ARCHITECT	CANNON DESIGN
GENERAL CONTRACTOR	PARIC CORPORATION
SUBCONTRACTOR	KCI CONSTRUCTION

ITEM SUBMITTED	FORM WORK – RADIUS WALL
SPEC SECTION	03 30 00 CAST IN PLACE CONCRETE
MANUFACTURER	NA
DATE	8/1/16
SUBMISSION NO.	2

SHOP DRAWING / SUBMITTAL REVIEW

☒ REVIEWED ☐ REVIEWED WITH CHANGES NOTED
☐ REVISE AND RESUBMIT ☐ REJECTED / RESUBMIT

This review is for general information with plans and specifications only. Approvals are subject to subcontractors performance within the confines of the contract documents. Review of dimensions will not serve to relieve the subcontractor of contractual responsibility for any deviation from the contract requirements.

By: Steve Teipe, Project Manager
KCI Construction, Inc.

10315 Lake Bluff Drive
St. Louis, MO 63123

Date:
08/01/2016

A BUILDER, NOT A BROKER.

General Building | Design/Build | Heavy Industrial | Transportation



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0168

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/02/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Formwork shop drawing verification

ATTN: Kelvin Patel

JOB: 15051

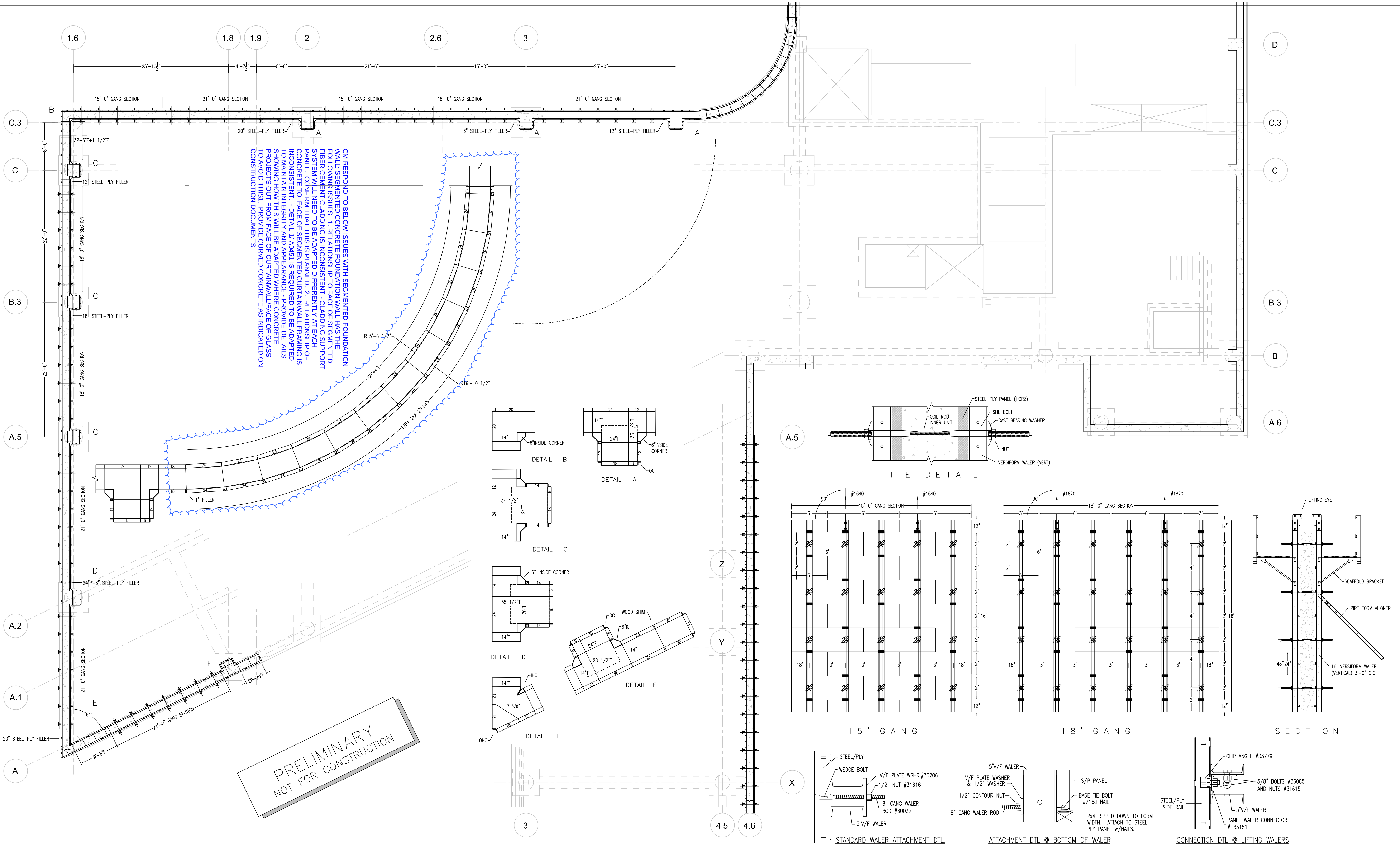
WE ARE SENDING:		SUBMITTED FOR:	ACTION TAKEN:
☒ Shop Drawings		☒ Approval	☐ Approved as Submitted
☐ Letter		☐ Your Use	☐ Approved as Noted
☐ Prints		☐ As Requested	☐ Returned After Loan
☐ Change Order		☐ Review and Comment	☐ Resubmit
☐ Plans			☐ Submit
☐ Samples		SENT VIA:	☐ Returned
☐ Specifications			☐ Returned for Corrections
☐ Other:			☐ Due Date:

<i>Item</i>	<i>Package</i>	<i>Code</i>	<i>Rev.</i>	<i>Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal		033000-023	2		08/02/2016	Formwork shop drawing verification	Submitted

NOTES:

CC:

Signed: _____
Devin Gates



PRELIMINARY
NOT FOR CONSTRUCTION

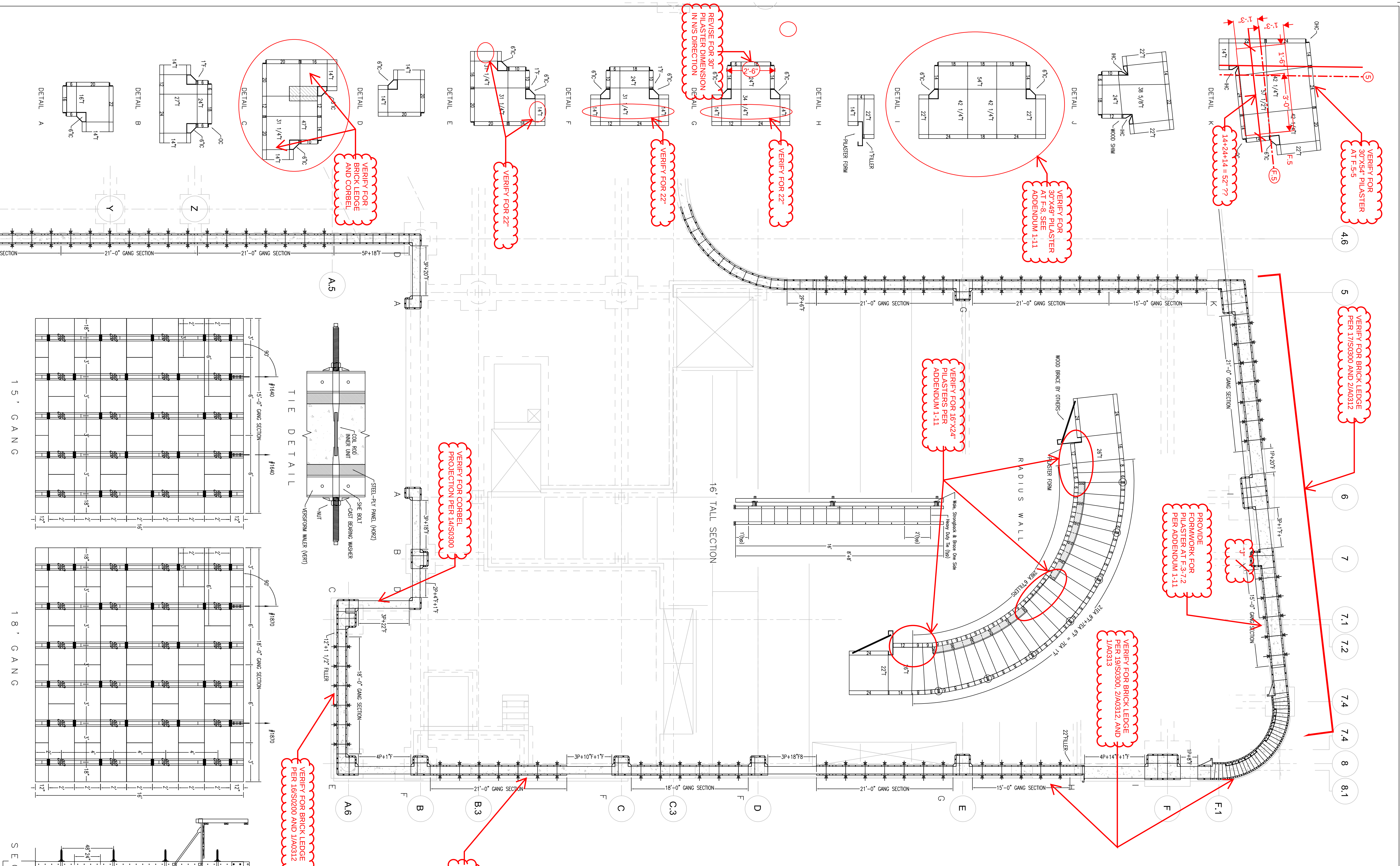
FACTORS EFFECTING CONCRETE PRESSURE
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STEEL PLY NOTES
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5. Always use keeper bolt with threaded tie nuts.
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7. Allowable load on shearwall bracket is 2000 lbs. when anchored in 3000 psi concrete with 3/4" H.S. bolt.
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9. An additional slack cable sling is recommended when lifting ganged forms. Safe load on gang lift bracket is 2000 lbs.

NOTES
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4. We are not to be responsible for any deviation from the enclosed print in the arrangement of our equipment, unless such deviation is approved by us in writing.

This Drawing is based on a maximum allowable concrete pressure of 800 lbs./sf. as determined by American Concrete Institute formulae and procedures. Safe load capacity of ties is 2250 lbs. at 2 to 1 safety factor unless noted otherwise.
Safe Working Load of Ties
Standard wire - 2,250 lbs. Heavy Duty Wire - 3,000 lbs.
Threaded std. wire - 2,100 lbs.

DATE: 05-13-16	CONTR: KCI CONST	DWG. NO. 1605-417
MATERIAL: SYMONS	JOB: WEBSTER UNIV	SHEET
DWN BY: P.G.S.	FORM LAYOUT	OF SHEETS
SCALE:	GOEDECKE 812 E Taylor Ave St. Louis Mo. 63147 314-652-1810	REVISIONS:



NOTES 1. This print is the property of Vernon L. Goedecke Company, Inc., and has been prepared for your use solely in considering the purchase or rental of the equipment described. This layout is intended only to demonstrate the arrangement of our equipment under loads designated in the layout and is not intended to set forth the details of construction or the design of the structure in which our equipment is to be used because such items are the responsibility of the contractor. 2. Customer should verify all dimensions and check all details with field conditions. 3. Customer shall be responsible for the design and adequacy of all materials not furnished by us. The design and adequacy of supporting structures, and for any other conditions beyond our control. 4. We are not to be responsible for any deviation from the enclosed print in the arrangement of our equipment, unless such deviation is approved by us in writing.			FACTORS EFFECTING CONCRETE PRESSURE 1. WEATHER - Cold weather will delay setting up of the concrete, increasing liquid head, thus adding to the pressure. 2. A FAST POUR - The higher the rate of pour, the greater the pressure. 3. VIBRATION - In addition to keeping the concrete liquid (high hydrostatic pressure), vibration adds a pounding or impact pressure. Accordingly, vibration should be handled with great care. 4. DUMPING OF CONCRETE BY BUCKET OR OTHERWISE - If concrete is dumped an additional impact pressure is added to the concrete. 5. RETARDING ADDITIVES - Cause greater than normal liquid head for a given rate of pour. NOTE: When any of the above conditions exist, extra care should be exercised in pouring and additional ties used. Refer to ACI Manual SP-4 for additional factors effecting concrete pressure.			STEEL PLY NOTES 1. Wale and brace all joints where ties do not occur. 2. All fillers smaller than 1" are supplied by customer. 3. Do not try to force position of forms or ties by striking or hammering on ends of ties. 4. Lift handles are for manually moving forms and should not be used for any other purpose. 5. Always use keeper bolt with threaded tie nuts. 6. Toggle ties must be welded on both sides of toggle when attached to steel. 7. Allowable load on shearwall bracket is 2000 lbs. when anchored in 3000 psi concrete with 3/4" H.S. bolt. Maximum spacing is 8 feet. 8. Allowable load on Symons scaffold bracket is 500 lbs. 9. An additional slack cable sling is recommended when lifting ganged forms. Safe load on gang lift bracket is 2000 lbs.		
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DWG. NO. 1605-417 SHEET OF SHEETS REVISED:								

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICAL	

ITEM BEING SUBMITTED (check only one)

- | | | |
|---|--|--|
| ☐ Shop Drawings | ☐ Certification / Qualifications | ☐ Coordination Drawing |
| ☐ Samples (____ copies) | ☐ Record Documents | ☐ Calculations |
| ☐ LEED Submittal | ☐ Product Data | ☐ Schedules |
| ☐ Other _____ | ☐ O&M Manuals | |

ITEM BEING SUBMITTED FOR (check only one)

- ☐ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION (SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

REVIEWED BY

DATE

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
RECEIVED DATE
☐ A. No Exceptions Taken No further review of submittal is required.
☐ B. Make Corrections Noted Incorporate corrections in work; resubmission is not required.
☐ C. Revise and Resubmit Revise as noted, and resubmit for review.
☐ D. Rejected Submittal is not in compliance with Contract Documents; provide new submittal.
☐ E. For Record / Information Only Submittal was reviewed for Record / Information purposes only.
☐ F. Not Required for Review Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

SHOP DRAWING / SUBMITTAL REVIEW	
☐ NO EXCEPTION TAKEN	☒ EXCEPTIONS NOTED, RESUBMITTAL NOT REQUIRED
☐ REJECTED	
☐ REVIEWED FOR INFORMATION ONLY	☐ REVISE AND RESUBMIT AS NOTED
Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: Dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques of the construction, coordination of his work with that of all other trades and the satisfactory performance of his work.	
DAVID MASON & ASSOCIATES, INC.	
REVIEW BY: JYW	DATE: 06/15/2016

REVIEWED BY

DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0066

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 05/27/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Formwork shop drawing verification

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☒ Shop Drawings	☒ Approval	☒ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications		☐ Returned for Corrections
☐ Other:		☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		033000-023	1		05/27/2016	Formwork shop drawing verification	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates