

**From:** Scala, Mary Joy  
**Sent:** Thursday, August 16, 2012 11:21 AM  
**To:** 'Fabian Kuttner'  
**Subject:** BAR Action July 17, 2012

August 16, 2012

Fabian Kuttner  
955 2<sup>nd</sup> Street SE  
Charlottesville, VA 22902

**RE: Certificate of Appropriateness Application**  
BAR 11-12-04  
201 E Main Street  
Tax Map 33 Parcel 240.1  
Central Place Limited Partnership, Owner/ Fabian Kuttner, Applicant  
Replace cloth awnings with Corten steel awnings

Dear Applicant,

The above referenced project was discussed before a meeting of the City of Charlottesville Board of Architectural Review (BAR) on July 17, 2012.

The following action was taken:

**The BAR approved (6-3 with Hogg, Adams and Coiner opposed) the awning details with a friendly suggestion to look at the trim color (to possibly change from white to an earth color) once the awnings are installed.**

In accordance with Charlottesville City Code 34-285(b), this decision may be appealed to the City Council in writing within ten working days of the date of the decision. Written appeals, including the grounds for an appeal, the procedure(s) or standard(s) alleged to have been violated or misapplied by the BAR, and/or any additional information, factors or opinions the applicant deems relevant to the application, should be directed to Paige Barfield, Clerk of the City Council, PO Box 911, Charlottesville, VA 22902.

This certificate of appropriateness shall expire in 18 months (January 17, 2014), unless within that time period you have either: been issued a building permit for construction of the improvements if one is required, or if no building permit is required, commenced construction. You may request an extension of the certificate of appropriateness *before this approval expires* for one additional year for reasonable cause.

Upon completion of construction, please contact me for an inspection of the improvements included in this application. If you have any questions, please contact me at 434-970-3130 or [scala@charlottesville.org](mailto:scala@charlottesville.org).

Sincerely yours,

Mary Joy Scala, AICP  
Preservation and Design Planner

**Mary Joy Scala, AICP**  
Preservation and Design Planner  
City of Charlottesville  
Department of Neighborhood Development Services  
City Hall - 610 East Market Street  
P.O. Box 911  
Charlottesville, VA 22902  
Ph 434.970.3130 FAX 434.970.3359  
[scala@charlottesville.org](mailto:scala@charlottesville.org)

## Scala, Mary Joy

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**From:** Melanie Miller <melanie@houseofmillers.com>  
**Sent:** Thursday, June 28, 2012 2:35 PM  
**To:** Scala, Mary Joy  
**Subject:** RE: Central Place Awnings

I am not qualified to determine if the details are appropriate. That said, the detail drawings look fine to me. I will happily defer to those who know how this type of thing should be constructed.

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**From:** Scala, Mary Joy [mailto:scala@charlottesville.org]  
**Sent:** Thursday, June 28, 2012 1:04 PM  
**To:** BAR  
**Subject:** Central Place Awnings

At the last BAR meeting I handed out Fabian Kuttner's detailed drawings for the Corten Steel awnings at Central Place. The action letter is attached. You approved the proposal in concept last January, and wanted to see the details.

Let me know if they are sufficient to approve administratively or if you want to discuss at your July meeting.

Thank you.

**Mary Joy Scala, AICP**  
Preservation and Design Planner  
City of Charlottesville  
Department of Neighborhood Development Services  
City Hall - 610 East Market Street  
P.O. Box 911  
Charlottesville, VA 22902  
Ph 434.970.3130 FAX 434.970.3359  
[scala@charlottesville.org](mailto:scala@charlottesville.org)

*Preston - abstain*

## Scala, Mary Joy

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**From:** Tim Mohr <tmohr@tmdarch.com>  
**Sent:** Monday, July 02, 2012 3:53 PM  
**To:** Scala, Mary Joy; BAR  
**Subject:** RE: Central Place Awnings

My take on this is that the awnings per se are fine but that there needs to be additional effort made to integrate them with the building – at the minimum I feel that the trim color needs to complement the corten – and white is not going to work.

Best,

tim

TIM MOHR AIA  
LEED AP

**todd+mohr**  
DESIGN

1112 PARK STREET CHARLOTTESVILLE VIRGINIA 22901  
434 971 4631

16 WOODSIDE WAY PO BOX 668 CASTINE MAINE 04421  
207 317 1178

[tmohr@tmdarch.com](mailto:tmohr@tmdarch.com)

---

**From:** Scala, Mary Joy [mailto:scala@charlottesville.org]  
**Sent:** Thursday, June 28, 2012 1:04 PM  
**To:** BAR  
**Subject:** Central Place Awnings

At the last BAR meeting I handed out Fabian Kuttner's detailed drawings for the Corten Steel awnings at Central Place. The action letter is attached. You approved the proposal in concept last January, and wanted to see the details.

Let me know if they are sufficient to approve administratively or if you want to discuss at your July meeting.

Thank you.

**Mary Joy Scala, AICP**  
Preservation and Design Planner  
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Department of Neighborhood Development Services  
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P.O. Box 911  
Charlottesville, VA 22902  
Ph 434.970.3130 FAX 434.970.3359  
[scala@charlottesville.org](mailto:scala@charlottesville.org)

**From:** Scala, Mary Joy  
**Sent:** Wednesday, January 18, 2012 4:36 PM  
**To:** Manager (manager@frankix.com)  
**Subject:** 201 E Main Street BAR Action

January 18, 2012

Fabian Kuttner  
955 2<sup>nd</sup> Street SE  
Charlottesville, VA 22902

**RE: Certificate of Appropriateness Application (Deferred from December 2011)**  
BAR 11-12-04  
201 E Main Street  
Tax Map 33 Parcel 240.1  
Central Place Limited Partnership, Owner/ Fabian Kuttner, Applicant  
Replace cloth awnings with Corten steel awnings

Dear Applicant,

The above referenced project was discussed before a meeting of the City of Charlottesville Board of Architectural Review (BAR) on January 17, 2012.

The following action was taken:

**The BAR approved (5-4 with Hogg, Coiner, Adams, and Osteen opposed) the proposal in concept and material, with additional architectural detailing to be submitted to the BAR for discussion and approval.**

In accordance with Charlottesville City Code 34-285(b), this decision may be appealed to the City Council in writing within ten working days of the date of the decision. Written appeals, including the grounds for an appeal, the procedure(s) or standard(s) alleged to have been violated or misapplied by the BAR, and/or any additional information, factors or opinions the applicant deems relevant to the application, should be directed to Paige Barfield, Clerk of the City Council, PO Box 911, Charlottesville, VA 22902.

If you have any questions, please contact me at 434-970-3130 or [scala@charlottesville.org](mailto:scala@charlottesville.org).

Sincerely yours,

Mary Joy Scala, AICP  
Preservation and Design Planner

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P.O. Box 911  
Charlottesville, VA 22902  
Ph 434.970.3130 FAX 434.970.3359  
[scala@charlottesville.org](mailto:scala@charlottesville.org)

**From:** Scala, Mary Joy  
**Sent:** Friday, December 23, 2011 3:48 PM  
**To:** Manager (manager@frankix.com)  
**Subject:** BAR Action - Decemeber 20, 2011

December 23, 2011

Fabian Kuttner  
955 2<sup>nd</sup> Street SE  
Charlottesville, VA 22902

**RE: Certificate of Appropriateness Application**

BAR 11-12-04

201 E Main Street

Tax Map 33 Parcel 240.1

Central Place Limited Partnership, Owner/ Fabian Kuttner, Applicant

Replace cloth awnings with Corten steel awnings

Dear Applicant,

The above referenced project was discussed before a meeting of the City of Charlottesville Board of Architectural Review (BAR) on December 20, 2011.

The following action was taken:

**The BAR accepted (7-0) the applicant's request for deferral. The BAR wants to see more details, including: batten design; square tubes may be better and allow neater weld joints; where has Corten been used locally; have a sample of the final product.**

The full discussion is archived at:

[http://charlottesville.granicus.com/ViewPublisher.php?view\\_id=2](http://charlottesville.granicus.com/ViewPublisher.php?view_id=2)

If you have any questions, please contact me at 434-970-3130 or [scala@charlottesville.org](mailto:scala@charlottesville.org).

Sincerely yours,

Mary Joy Scala, AICP  
Preservation and Design Planner

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[scala@charlottesville.org](mailto:scala@charlottesville.org)

## Proposed CorTen Awnings at Central Place

We propose to replace the cloth awnings at Central Place with a permanent metal awning. The awnings we propose will be exactly the same in size, angle, and position except have no sides to the awnings and the metal structure underneath the awning will be simplified to a great degree. The material we propose using is "Corten" or weathering steel. It will rust and then stop degrading any further, leaving a rust color.

The "rust" color will be that of the color and nature of any rusting iron. The look of CorTen is no different than that of other steel types that rust, only it will eventually (2-5 years) rust at an imperceptible rate. We are using the higher grade of weathering steel that rusts even less than the original "CorTen" formulation designed by US Steel. The A606 alloy has even better rust resistance than older formulations, and is why we see so little rust staining in the examples that follow in this addition to the original submission.

We feel that the submitted design will add to the already modern look of the Central Place Building, the modern look of the fountain at Central Place, and the yet to be completed modern look of the hotel building across from Central Place.

We understand the concern with regard to rust stains and share this concern with the B.A.R. We feel from our research that 1) there will be no visible staining, 2) should there be any staining we can readily and easily remove any staining, 3) in a worst-case-scenario should staining be an ongoing problem the CorTen would be sealed with a high solid particulate sealer like that used on concrete but designed for steel.

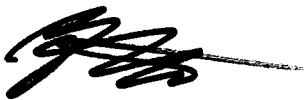
The B.A.R. has asked that we consider square tubing on the awnings. What we found is that the welds will be better hidden on round framing, and that round framing better matches most all the awnings we see on the mall. Also, the square tubing may increase the "boxy" look to where the angles become too harsh.

Finally, this design meets with approval from all our retail and restaurant tenants who are looking forward to the new awnings that will refresh and renovate the look of Central Place.

We hope that this second round of information satisfies the B.A.R.'s concerns. Many thanks for your time and service!

We look forward to your comments, questions, concerns and requirements.

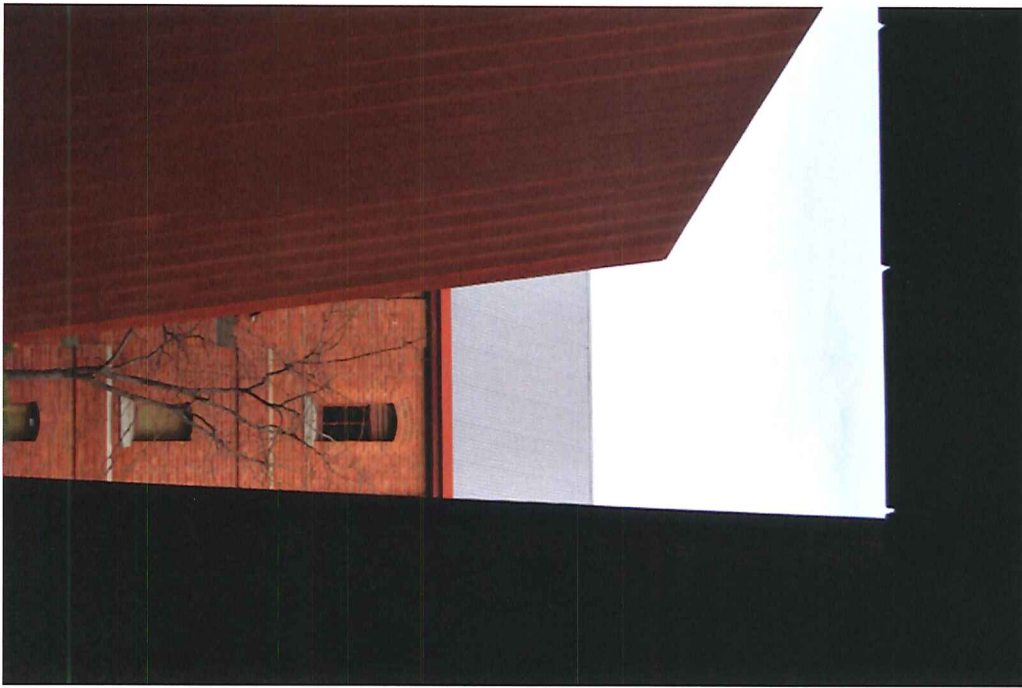
Sincerely Yours,



Fabian Kuttner for Central Place



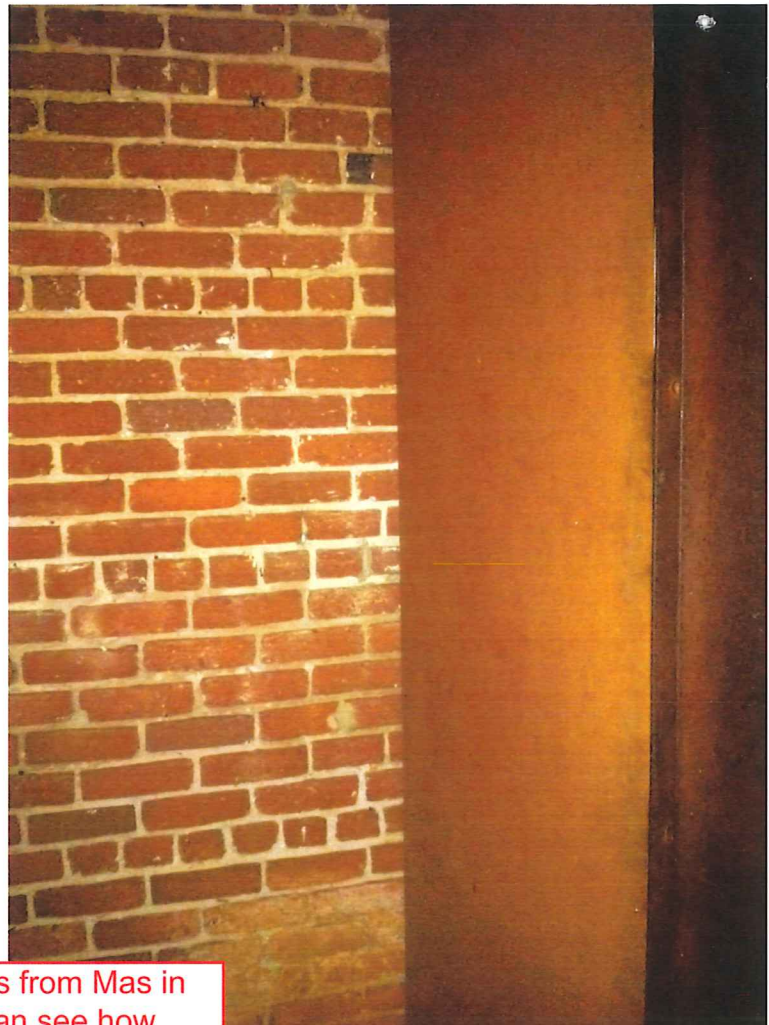
Here we see an, admittedly elementary, visualization of the CorTen awnings. Of note is the potential shades that CorTen will have. Though always rust, like any steel, it will be a dynamic finish. Depending on light and moisture, the finish might have a "live" look as these will change its final character day to day. Please note that the photo that was used for this example is from a "gray" overcast day. The CorTen will not "pop" like it does in this photo.



Examples of Brick and CorTen:  
blending a modern look with classic brick

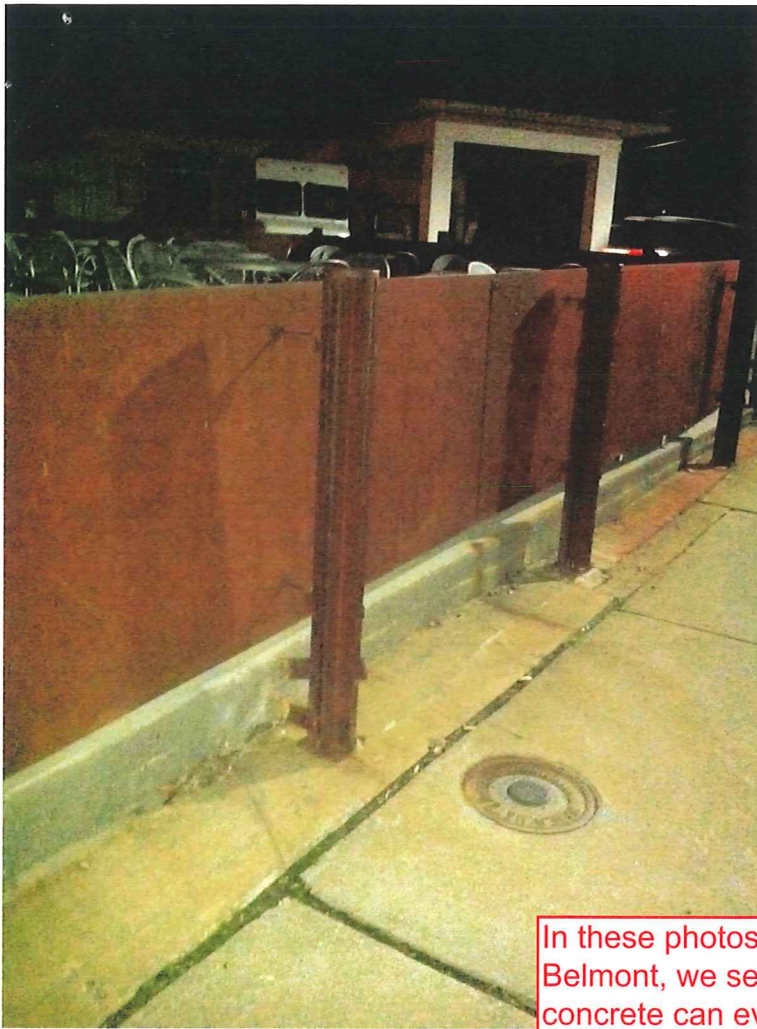




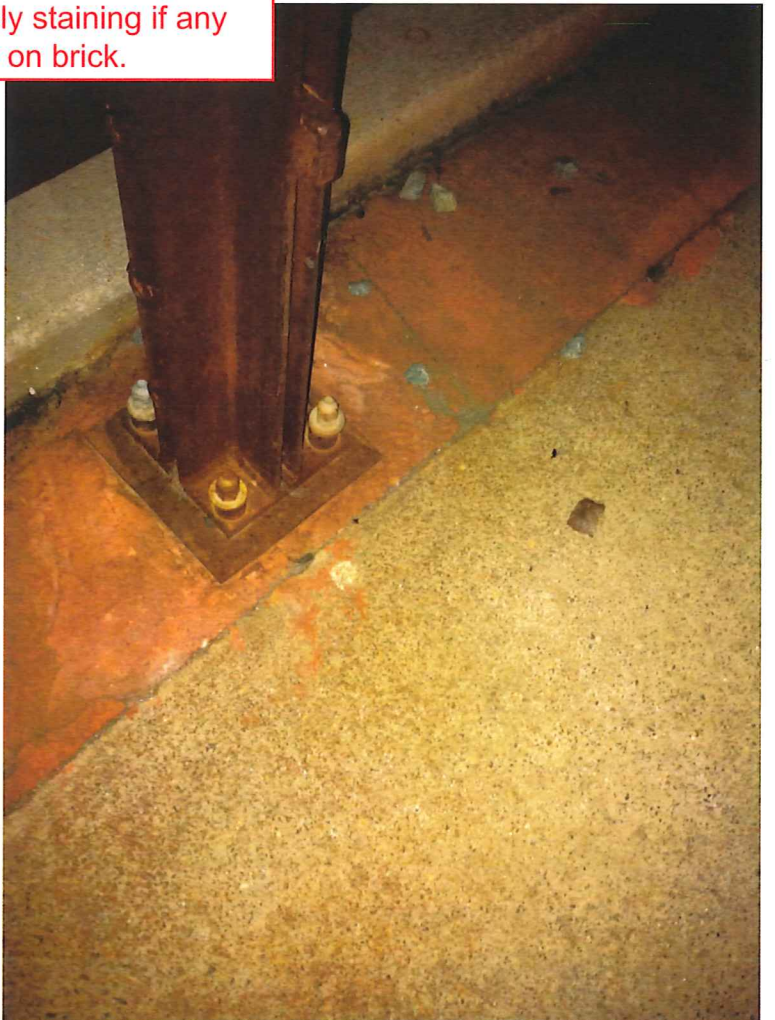
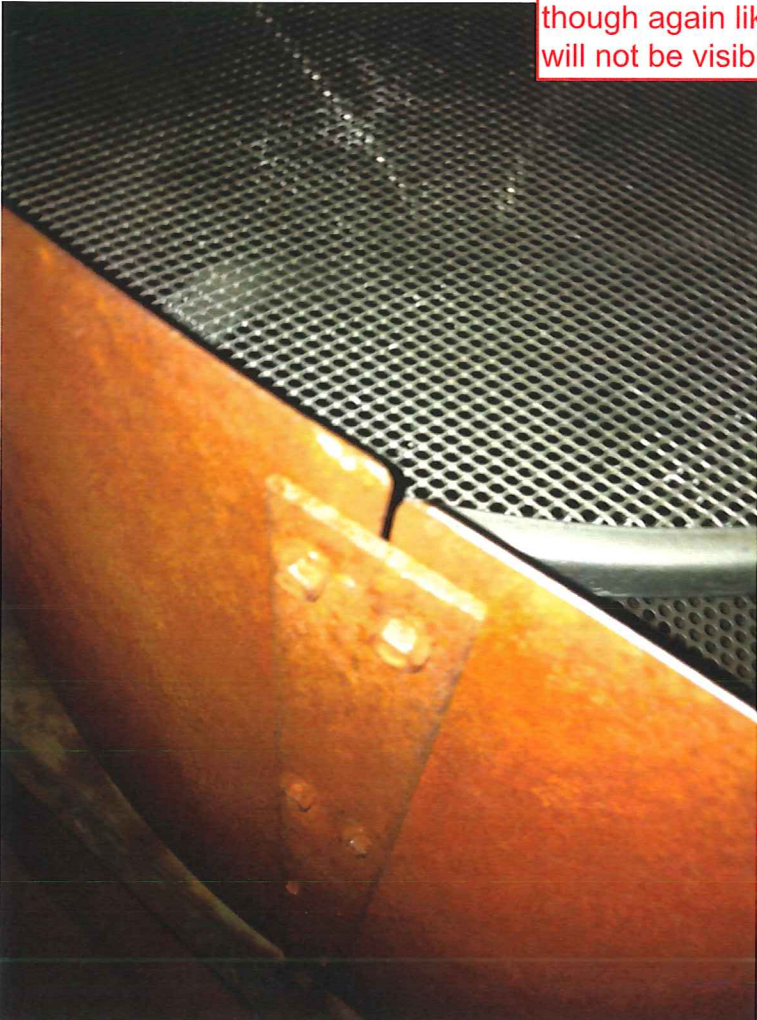


In these photos from Mas in Belmont, we can see how rusted steel and brick can work together to bring old and new elements together.





In these photos from Mas in Belmont, we see how staining on concrete can even look acceptable, though again likely staining if any will not be visible on brick.





These are photos of the steel grates around the trees on The Downtown Mall. In these Photos we see how difficult it is for the rusting to visually, or otherwise, penetrate onto and effect the brick. One can see the staining from these grates only on the light colored stone. It is the position of Central Place that there will be no visible staining from the proposed Awnings



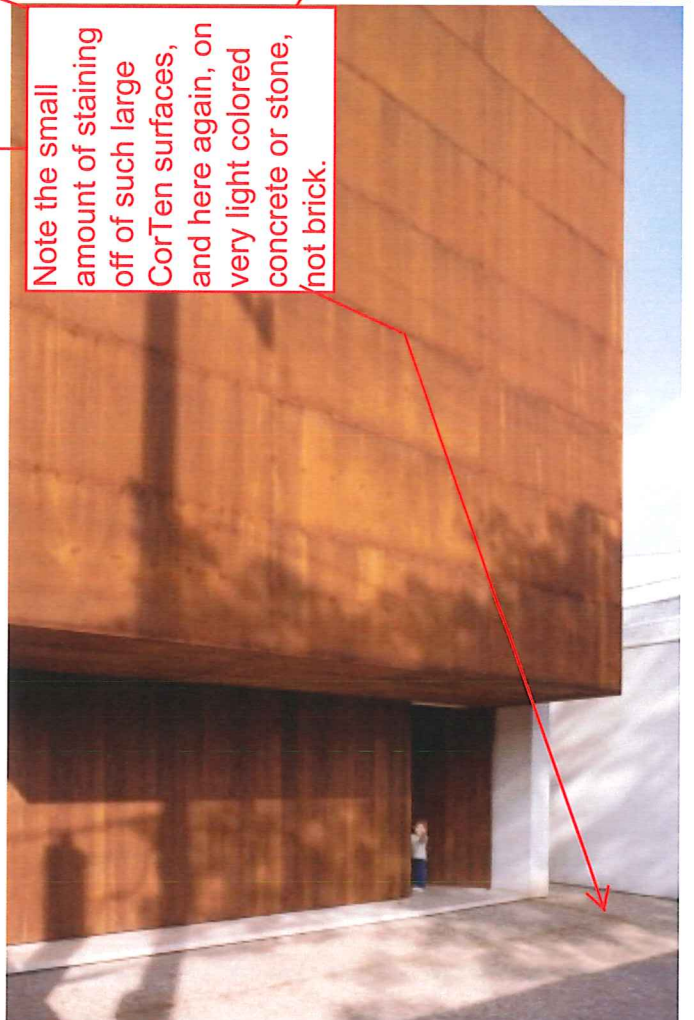
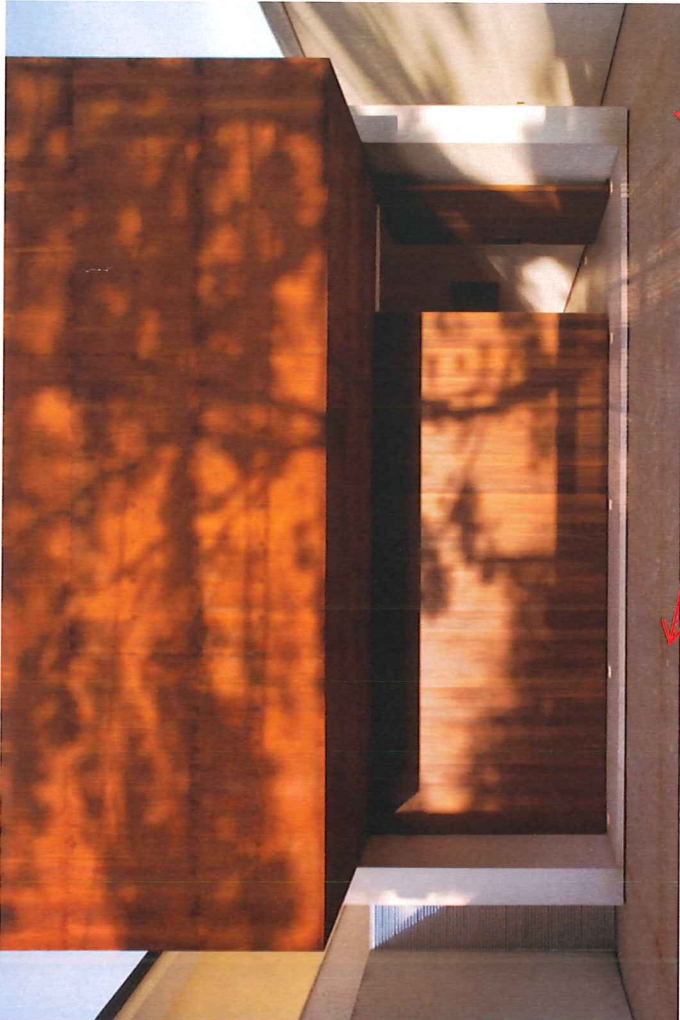
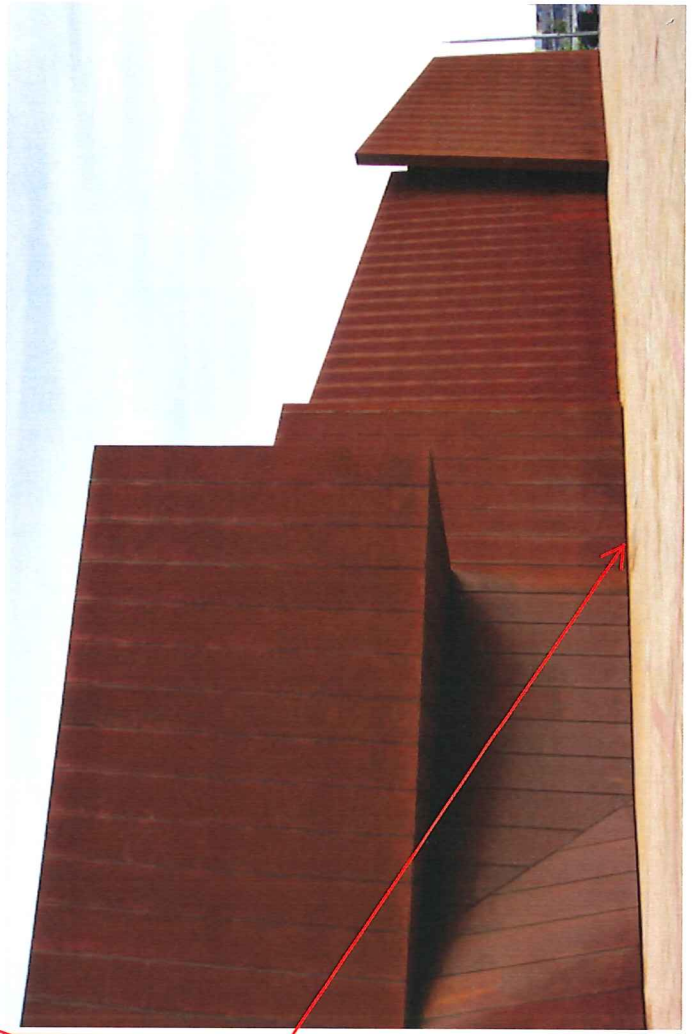
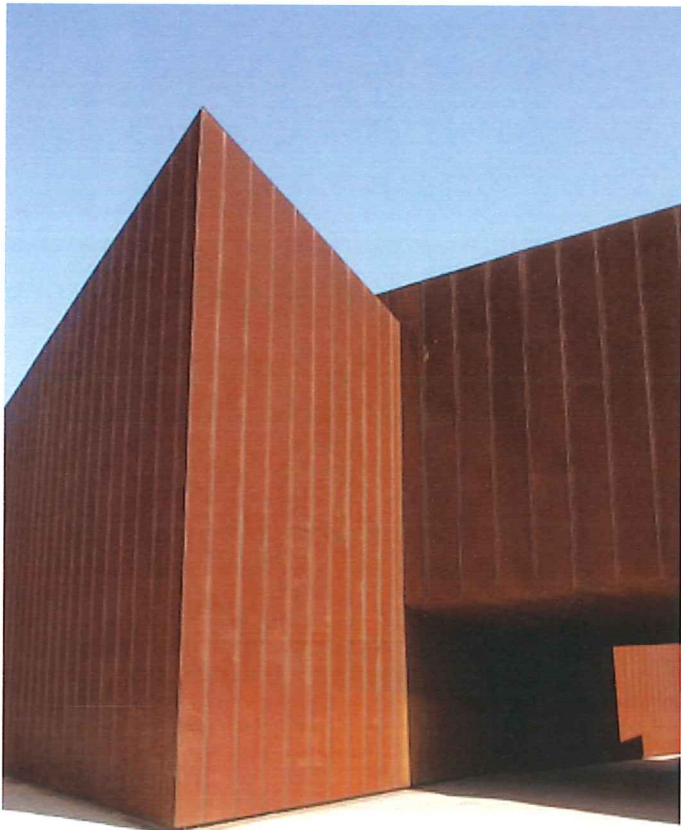


Note the all CorTen Sided Building and how little the staining is. Given such a large surface dripping down, and the fact that this is on gray concrete, not brick, we can expect little to no staining on our surface. This photo is three years into the life of the product on this building, which is in Portland, OR with high levels of moisture

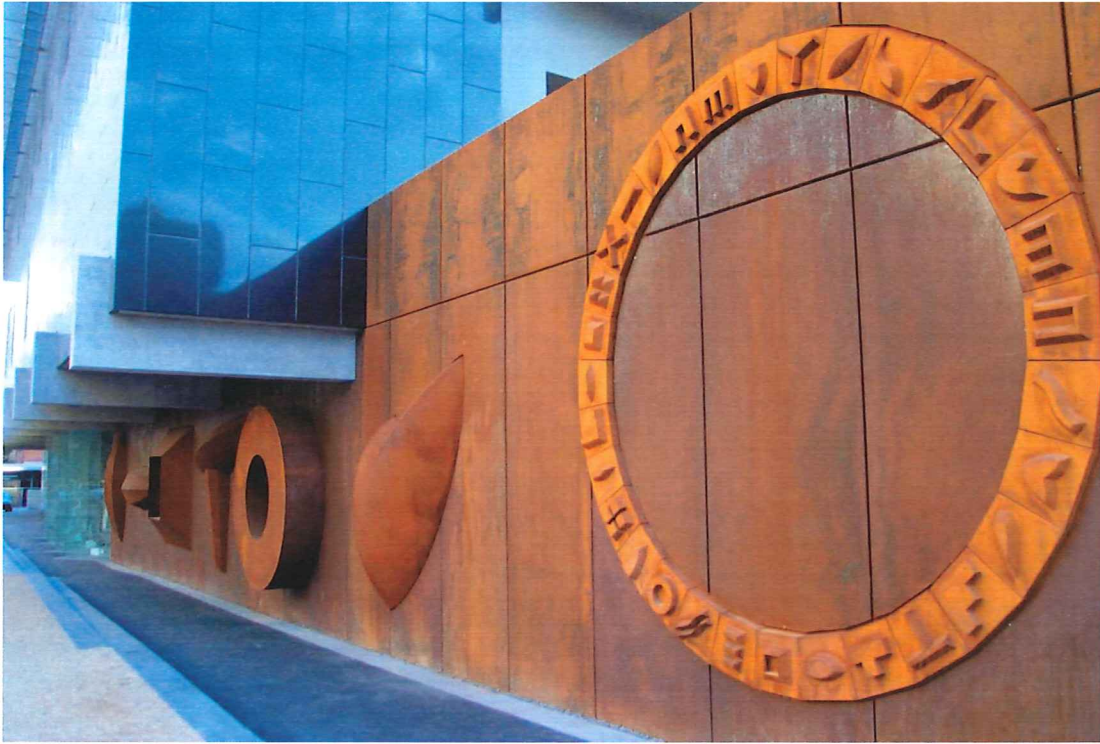


Other areas below CorTen overhangs



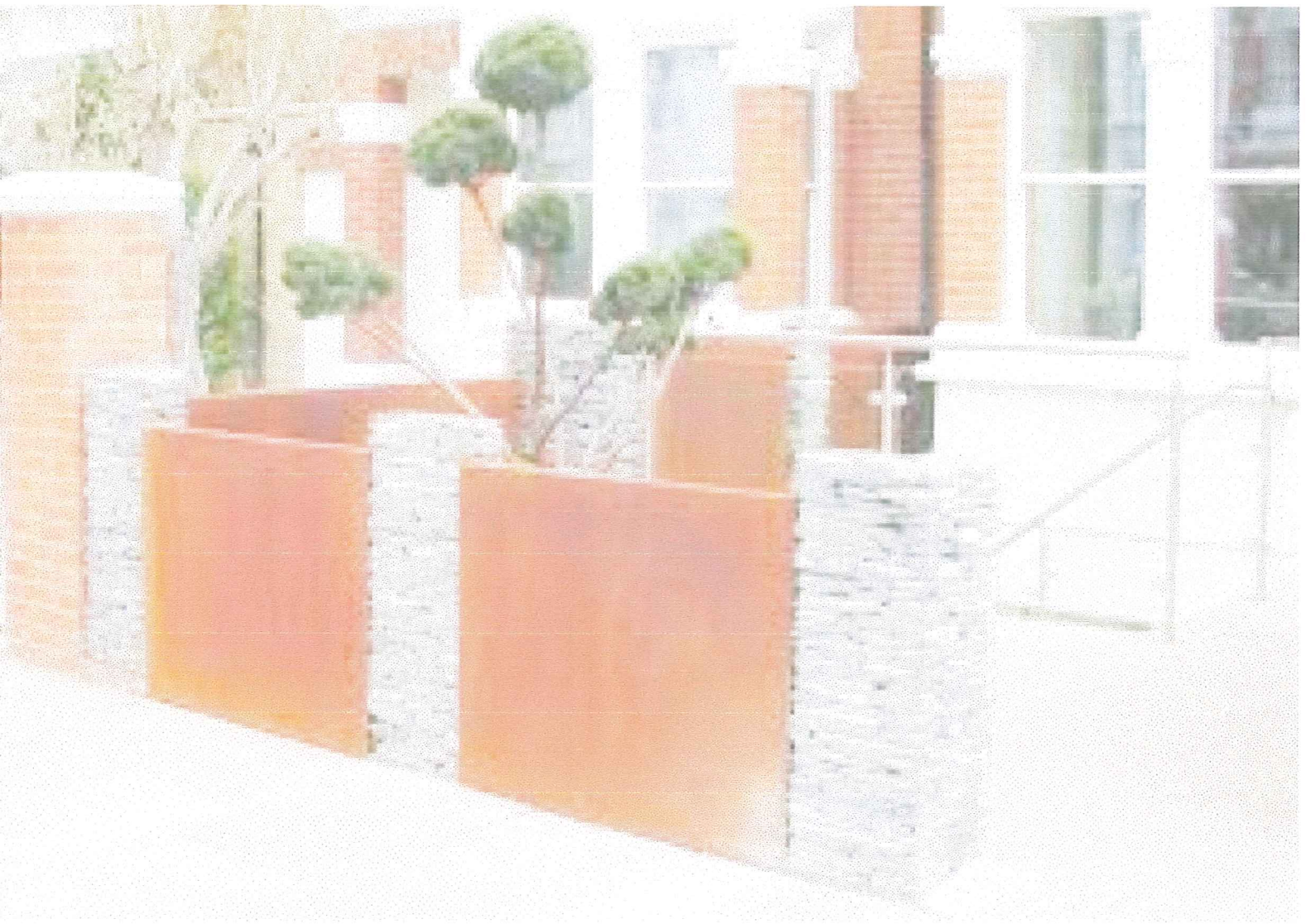


Note the small amount of staining off of such large CorTen surfaces, and here again, on very light colored concrete or stone, not brick.



Weathering steel in sculptural use.















PLACE

Red circular sign with illegible text.

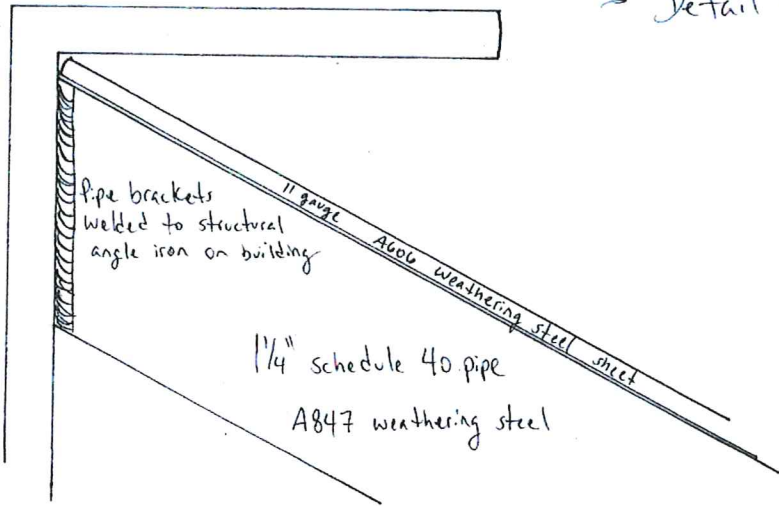
Ooops



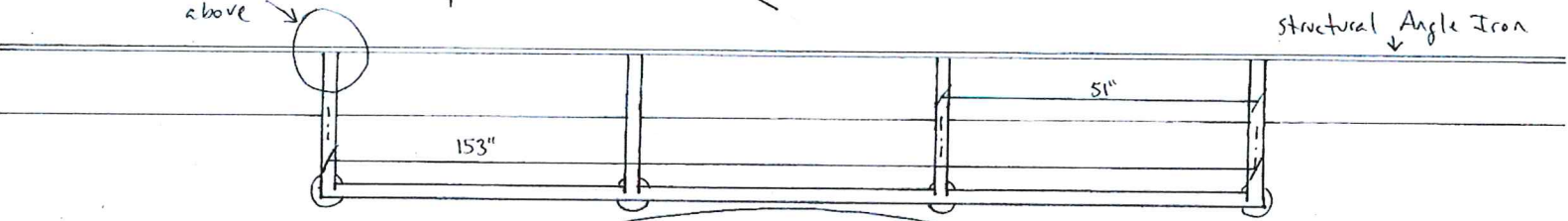
Perspective of proposed New awnings  
@ The Central Place

12/2011  
Submittal

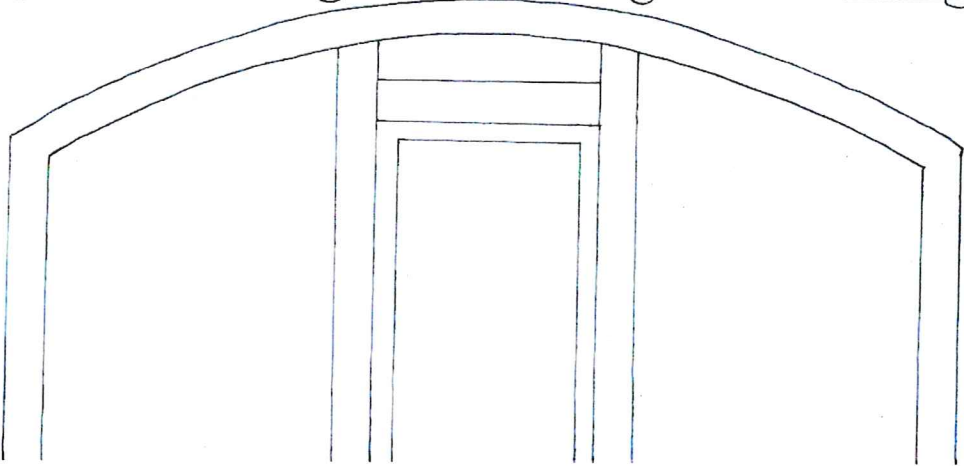
- Detail of upper wall mount -



See Detail above



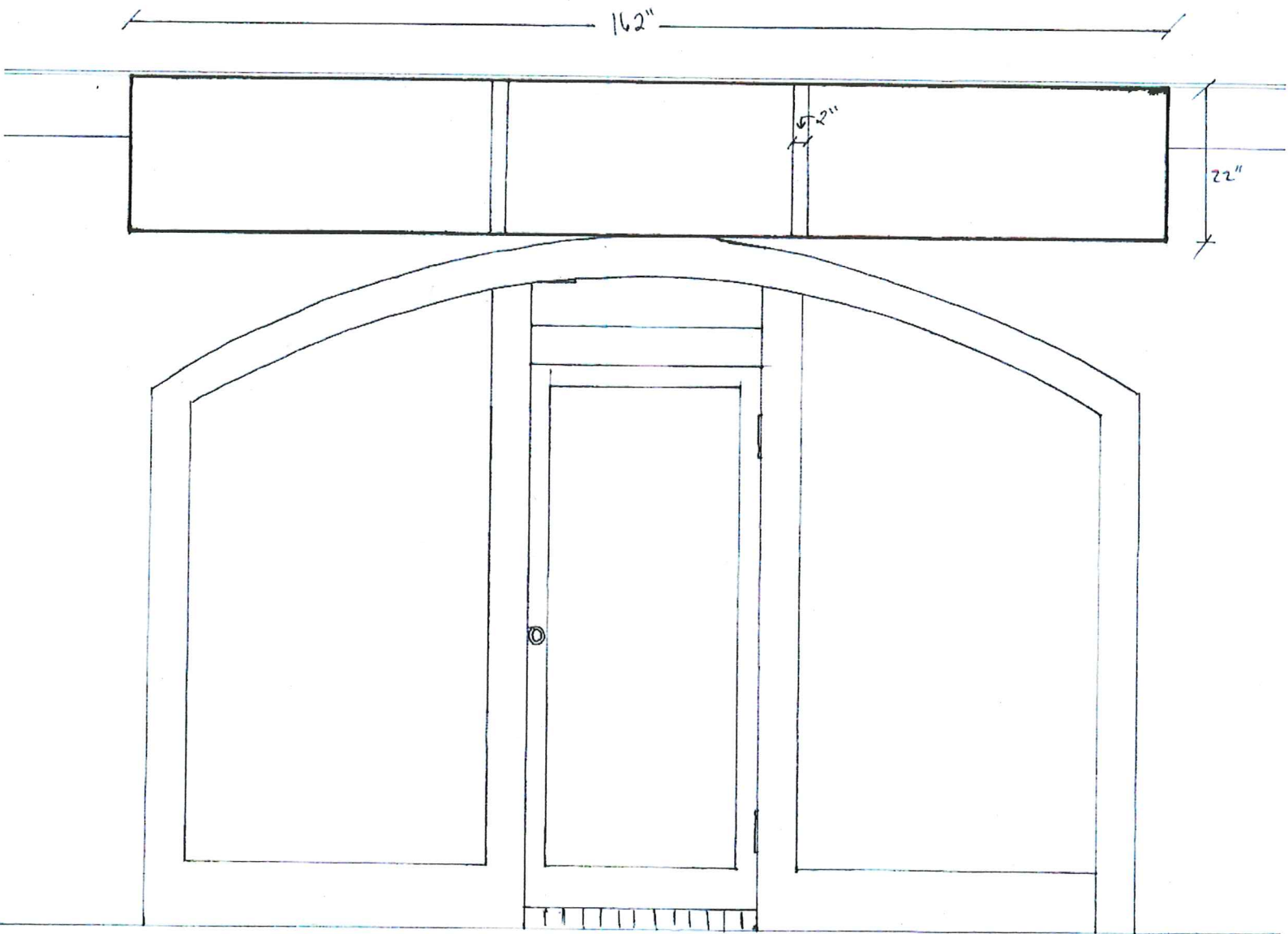
Structural Angle Iron



Front Elevation of typical awning frame

Scale : 1/2" = 1'

12/2011

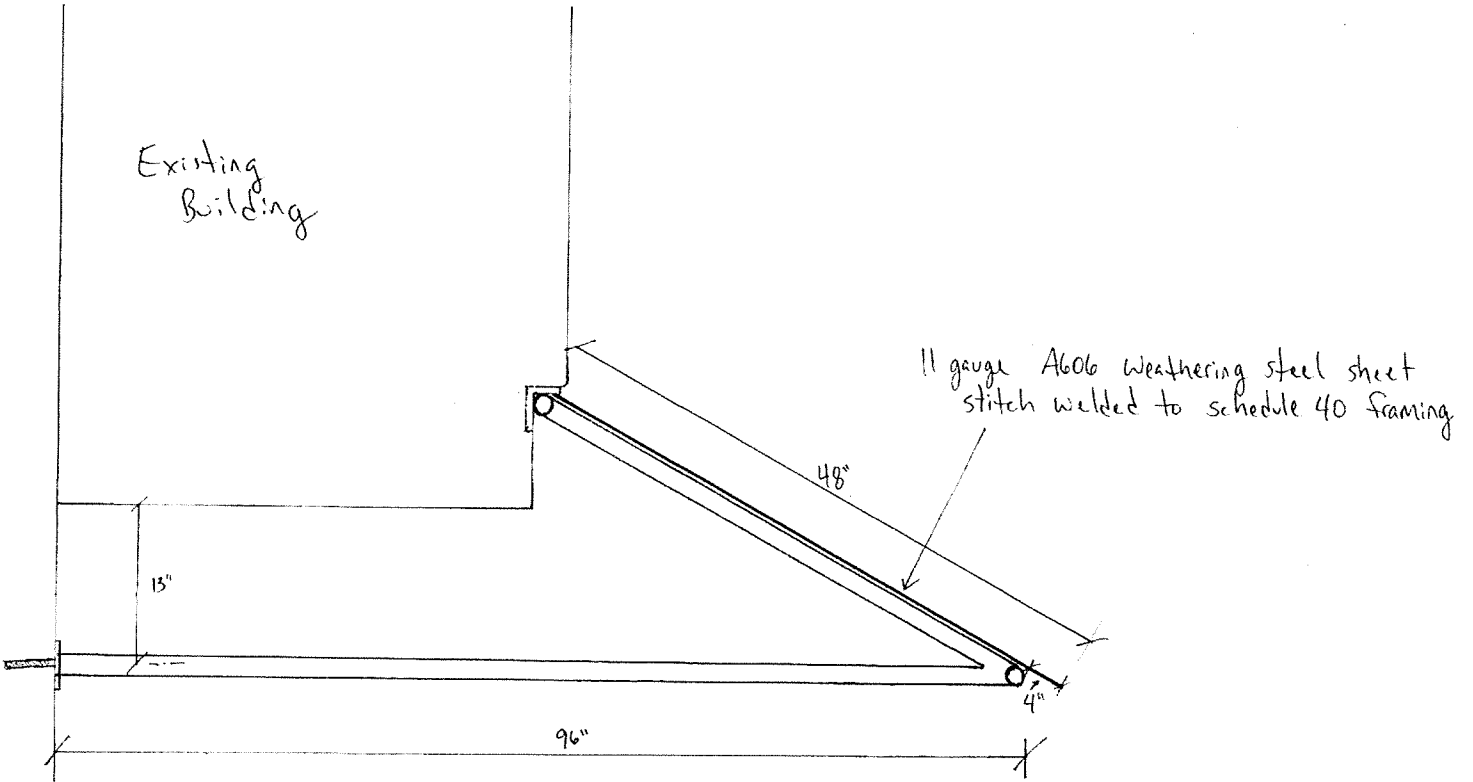


Scale: 1/4" = 1'

-Front Elevation of Typical Awning-

12/2011

Existing Building



11 gauge A606 weathering steel sheet  
stitch welded to schedule 40 framing

A847 weathering steel  
1/4" schedule 40 pipe (round)  
Typical frame structure  
-all joints welded solid

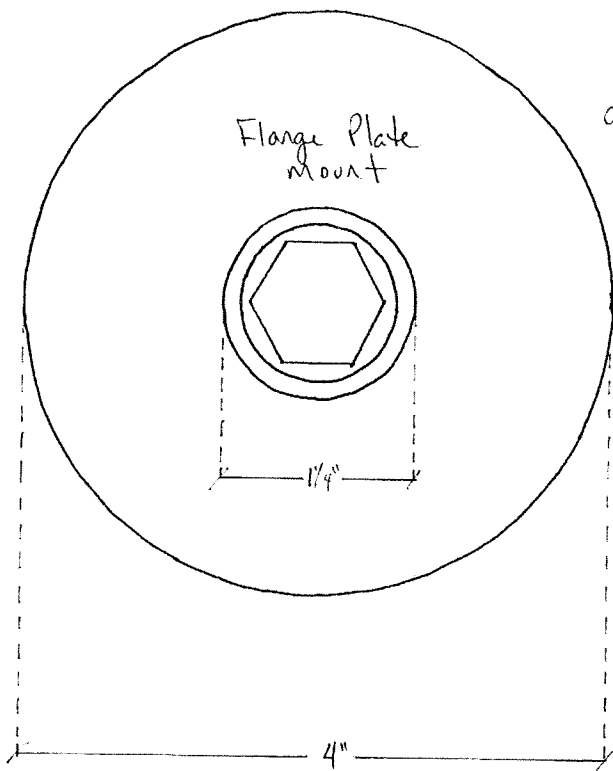
Existing Building

Scale: 1"=1'

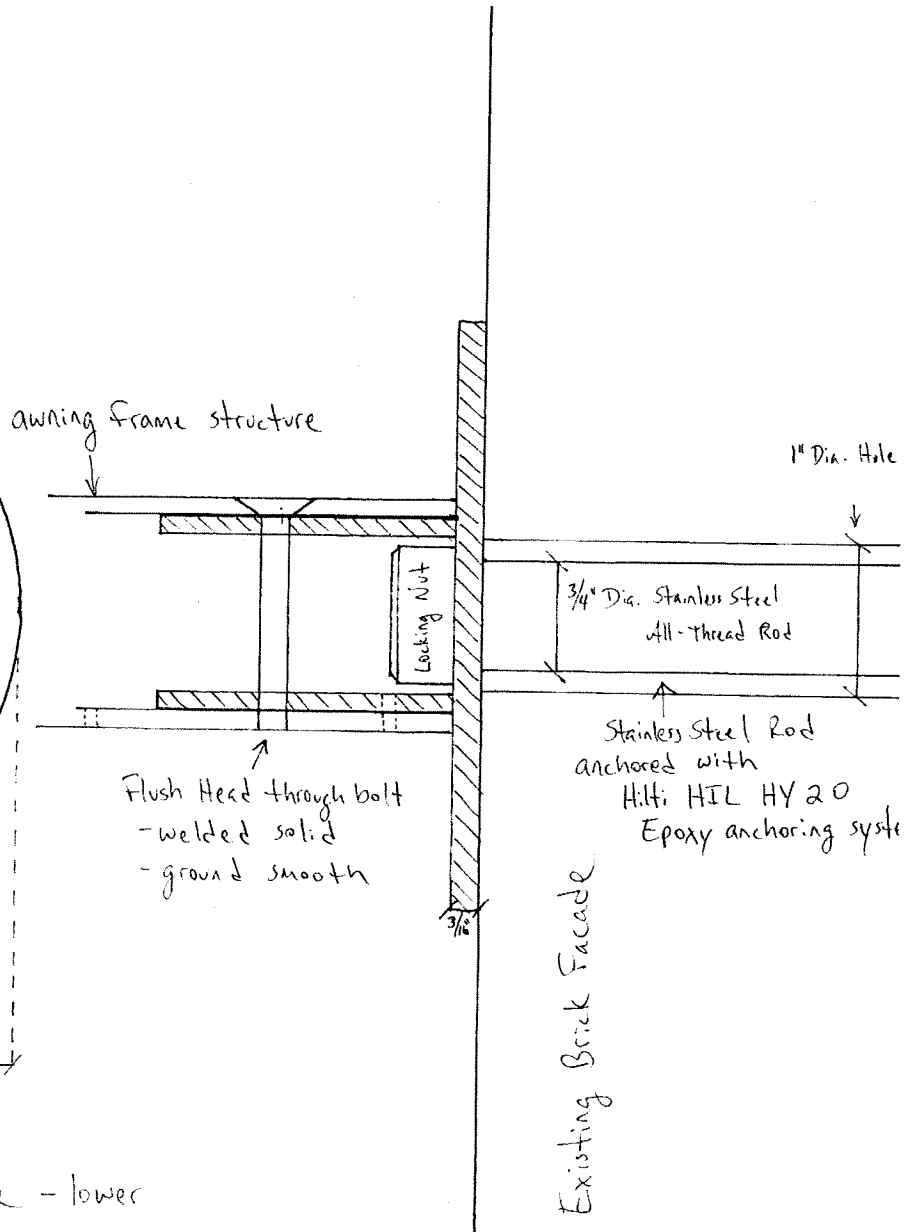
-Cross section of awning-

12/2011

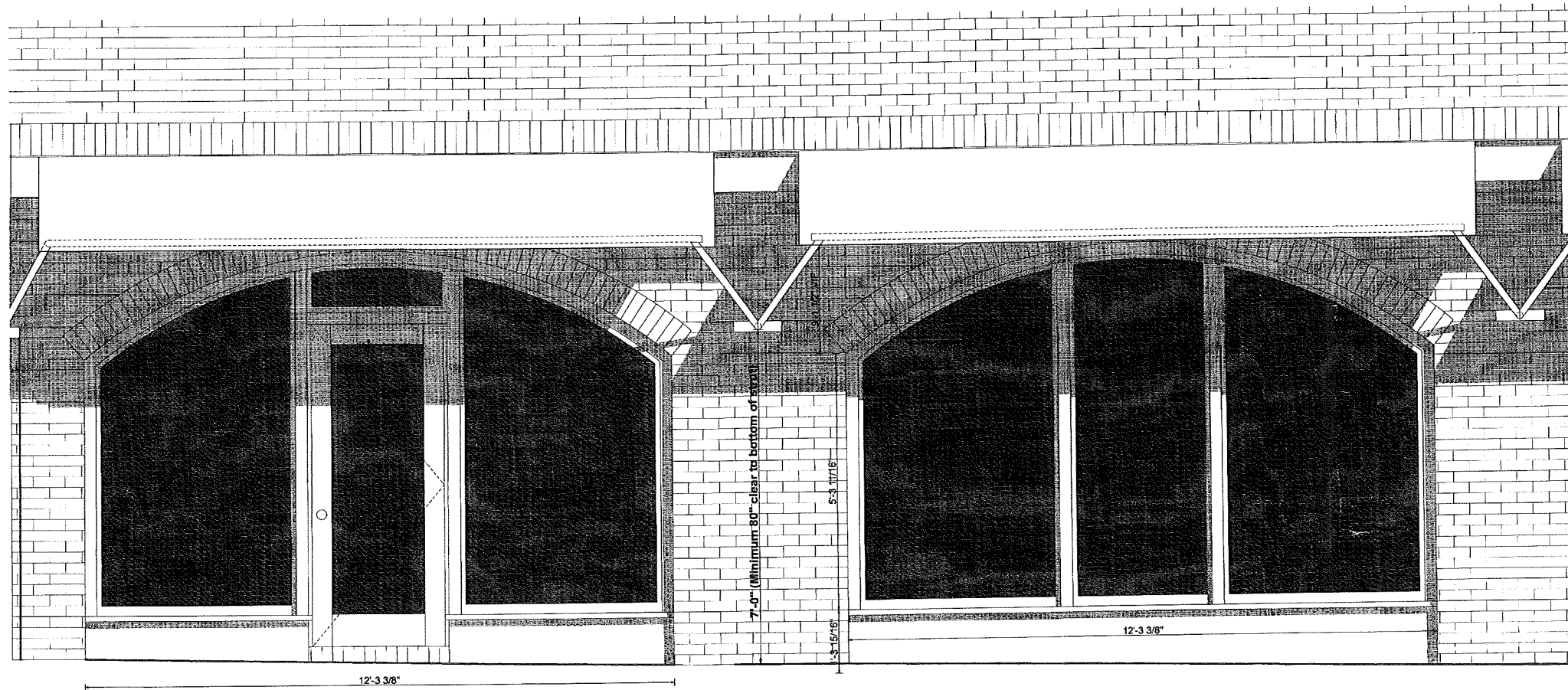




-Detail of wall mount Flange - lower

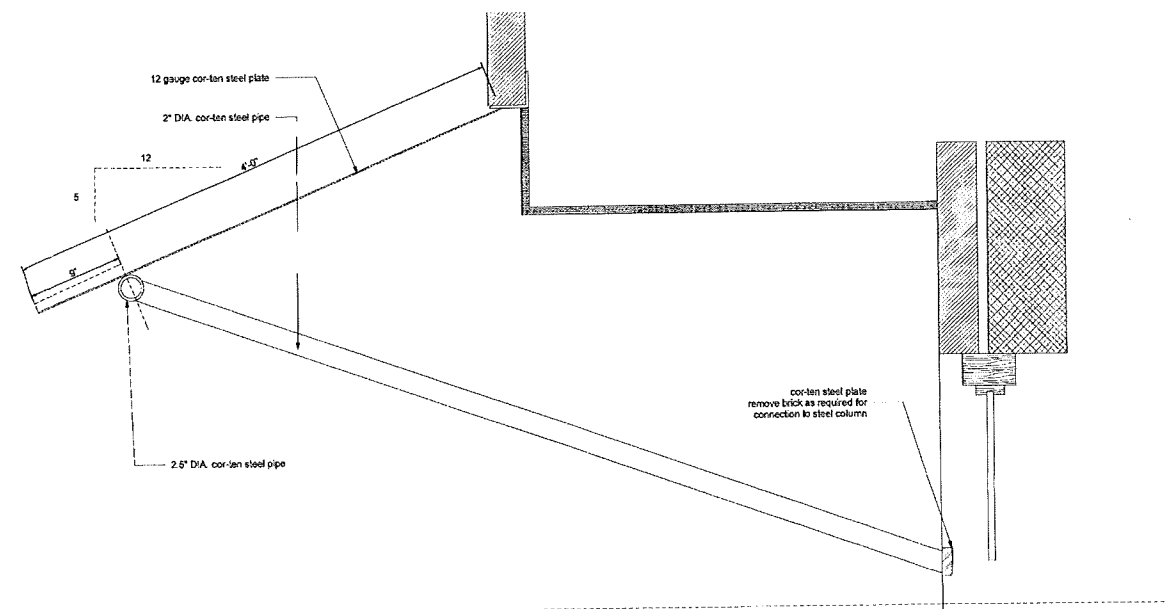


12/2011



Awning Elevation  
0 1 2 3

SCALE: 3/4" = 1'-0" 1  
A1



Awning Section  
0 1 2 4 8

SCALE: 1 1/2" = 1'-0" 2  
A1

{ ROSNEY Co }  
ARCHITECTS  
106 5th Street SE, Suite 308  
Charlotteville, Virginia 22802  
T: 434.242.8878  
F: 940.301.0466

CONSULTANTS:  
STRUCTURAL ENGINEER:  
DMVPV, PLLC  
110 Third Street NE  
Charlotteville, Va 22802  
434-293-9171

Central Place Canopy  
Main Street  
Charlotteville, Virginia

RECEIVED  
JUN 07 2012  
SUSAN L. COOPER SERVICES

EDITIONS/REVS

Awning Section  
and Elevation

5/24/2012

A1

**GENERAL STRUCTURAL NOTES**

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, VUSBC (2009 EDITION) EFFECTIVE MARCH 1, 2011.  
NO LOADS IN EXCESS OF THE DESIGN LIVE LOADS LISTED SHALL BE IMPOSED UPON ANY AREA DURING CONSTRUCTION, UNLESS ADEQUATE SHORING OR OTHER MEANS IS PROVIDED TO SUPPORT THE EXCESSIVE LOADS.

IF ANY CHANGES ARE MADE IN WEIGHT AND/OR LOCATION OF POINTS OF SUPPORT OF EQUIPMENT, THE CONTRACTOR SHALL FURNISH DETAILS OF CHANGES TO THE ARCHITECT FOR REVIEW AND NECESSARY MODIFICATIONS.

TEMPORARY BRACING, GUY WIRES, SHORING, ETC., SHALL BE USED AS NECESSARY TO RESIST ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED DURING CONSTRUCTION, INCLUDING EQUIPMENT AND ITS OPERATION.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

DRAWINGS DO NOT SHOW ALL OPENINGS, COORDINATE WITH MECHANICAL DRAWINGS. VERIFY SIZES AND LOCATIONS OF ALL OPENINGS WITH MECHANICAL.

REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING DETAILS.

THE ENGINEER SHALL NOT HAVE THE AUTHORITY OR RESPONSIBILITY TO SUPERVISE OR DIRECT THE CONSTRUCTION WORK.

ALL SECTIONS AND DETAILS, WHETHER EXPLICITLY CUT ON PLAN OR NOT, SHALL BE CONSIDERED TYPICAL AND SHALL APPLY AT SIMILAR CONDITIONS.

INFORMATION REGARDING STRUCTURAL MEMBERS INDICATED TO BE EXISTING WAS OBTAINED DURING LIMITED FIELD OBSERVATIONS AND FROM LIMITED AVAILABLE EXISTING DRAWINGS. ACTUAL CONDITIONS MAY DIFFER FROM THAT WHICH IS INDICATED. IF THE CONTRACTOR UNCOVERS EXISTING CONDITIONS THAT DIFFER FROM THAT WHICH IS INDICATED ON PLAN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF THE DISCREPANCY IN ORDER THAT THE CONDITION MAY BE RESOLVED.

FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE CONSTRUCTION AND FABRICATION OF ANY NEW STRUCTURAL MEMBERS.

**2. DESIGN LOADS**

A. BUILDING OCCUPANCY CATEGORY (TABLE 1604.5)  
CATEGORY II

B. LIVE LOADS

ROOF 20 PSF

C. SNOW LOADS

PG=30 PSF (GROUND SNOW)  
CE=1.0 (SNOW EXPOSURE FACTOR)  
CT=1.2 (THERMAL FACTOR)  
IS=1.0 (SNOW LOAD IMPORTANCE FACTOR; ASCE 7-05 TABLE 7-4)  
MINIMUM PF (LOW-SLOPE ROOF WHERE PG > 20.0 PSF) =  
(30)(IS)(CT)(CE)X0.7 = 25.2 PSF  
USE 30 PSF MINIMUM + DRIFT EFFECTS

D. WIND LOADS

V=90 MPH (BASIC WIND SPEED; 3-SECOND GUST)  
W=1.0 (WIND IMPORTANCE FACTOR; ASCE 7-05 TABLE 6-1)  
EXPOSURE B  
K<sub>D</sub>=0.85 (WIND DIRECTIONALITY FACTOR)  
K<sub>Z</sub>T=1.0 (TOPOGRAPHIC FACTOR)  
C<sub>N</sub>=±0.8 (NET PRESSURE COEFFICIENT)

WIND LOAD DETERMINATION BY:  
ASCE 7-05, SECTION 6.5, METHOD 2 (ANALYTICAL PROCEDURE)

3. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-05 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

PIPE OR ROUND HSS SHAPES:  
ASTM A847 WEATHERING STEEL FY = 50 KSI  
ANGLES:  
ASTM A588 WEATHERING STEEL FY = 38 KSI  
PLATE:  
ASTM A606 OR A588 WEATHERING STEEL FY = 50 KSI  
E70XX (SMAW PROCESS WELDING)  
ASTM A563 (HEAVY HEX NUT)  
ASTM F436 (HARDENED STEEL WASHER)

ALL STRUCTURAL STEEL SHALL MEET THE CLOSER DIMENSIONAL TOLERANCES OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AS INDICATED IN THE AISC CODE OF STANDARD PRACTICE. CONFORM TO SPECIFICATIONS GOVERNING SPECIAL PROCEDURES FOR FABRICATION, ERECTION, FIELD PREPARATION, AND FINISH. GRIND VISIBLE WELDS AND ROUGH EDGES SMOOTH FOR SHOP AND FIELD FABRICATION AND INSTALLATION. UNLESS OTHERWISE DETAILED, NO VISIBLE BOLTED CONNECTIONS SHALL BE PERMITTED.

HOLES BURNED THROUGH EXPOSED STEEL ROOF OR FLOOR DECK DURING WELDING SHALL NOT BE ALLOWED. REPLACEMENT OF DECK IS REQUIRED.

ALL STEEL BOLTS, NUTS AND OTHER CONNECTION HARDWARE SHALL BE FURNISHED HOT-DIP GALVANIZED.

4. ALL POST-INSTALLED ANCHORS (IN MASONRY) ARE TO BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (INCLUDING BUT NOT LIMITED TO DRILL BIT SIZE, PROPER CLEANING OF HOLES, INSTALLATION TORQUE, AND TEMPERATURE CONSTRAINTS).

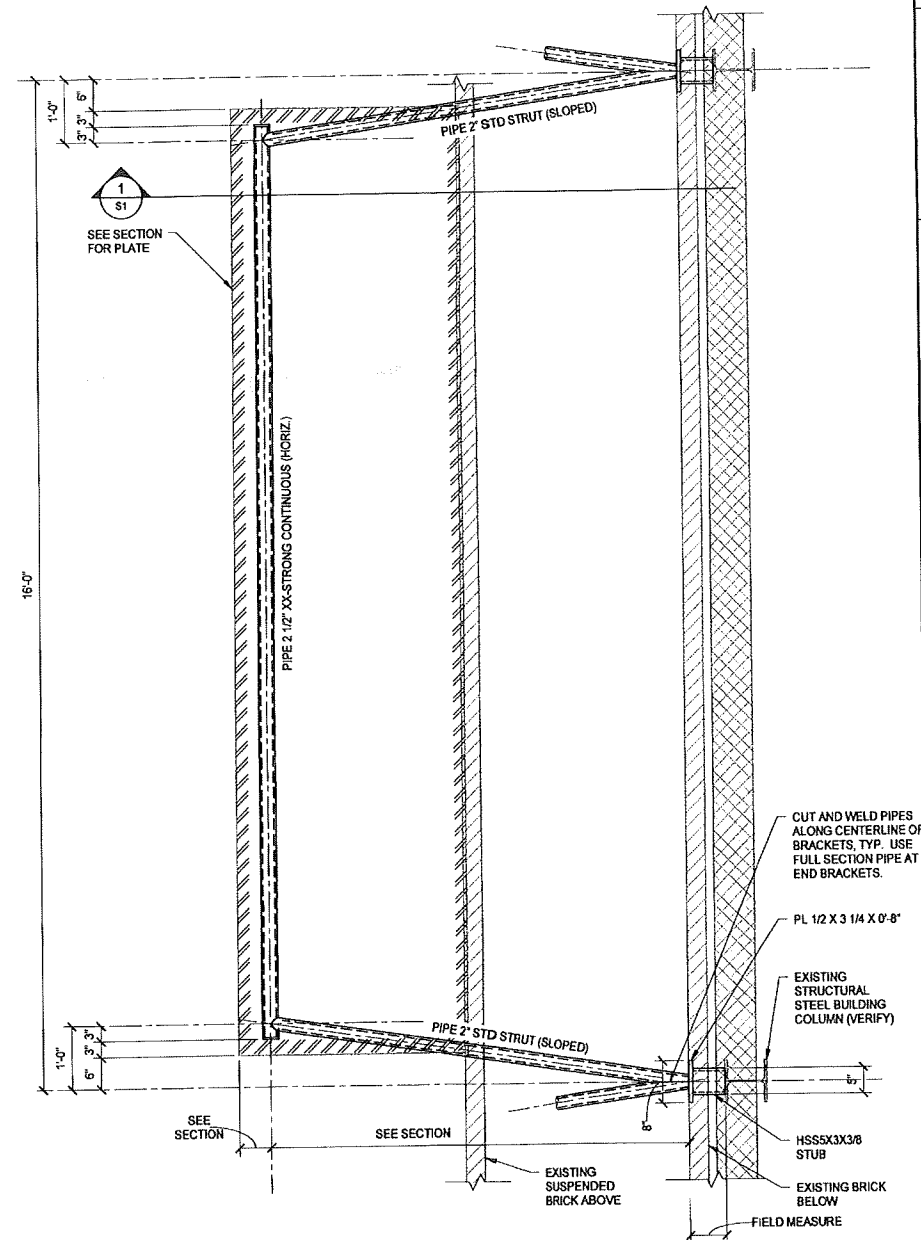
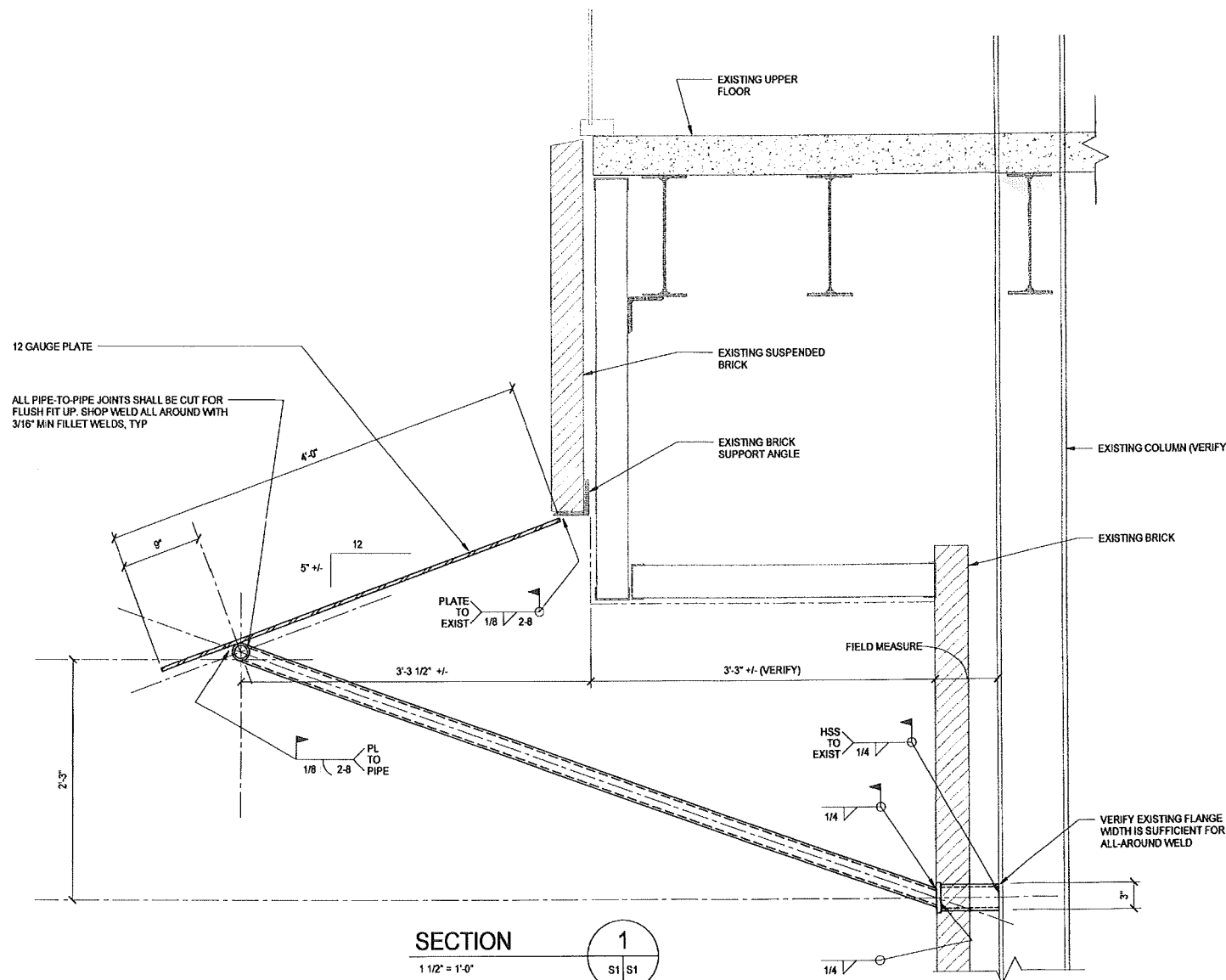
WHEN A SPECIFIC PRODUCT AND MANUFACTURER IS REFERENCED IN THE CONTRACT DOCUMENTS, THAT SPECIFIC PRODUCT SHALL BE USED UNLESS THE CONTRACTOR SUBMITS A REQUEST FOR A PRODUCT SUBSTITUTION OF AN ANCHOR WITH EQUIVALENT RESISTANCE VALUES IN THE APPROPRIATE BASE MATERIAL. ALL REQUESTS FOR SUBSTITUTION SHALL INCLUDE PRODUCT SPECIFICATIONS AND DESIGN DATA FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD (DMMPV). CONTRACTOR SHALL SUBMIT CALCULATIONS DEMONSTRATING PROPOSED SUBSTITUTION IS EQUAL TO APPROVED PRODUCTS.

CHEMICAL ANCHORING SYSTEMS USED IN HOLLOW MASONRY GENERALLY REFERRED TO AS "EPOXY" ANCHORING SYSTEMS SHALL BE ONE OF:

- HIT-HY 20 BY HILTI
- AT ACRYLIC-TIE ANCHORING SYSTEM BY SIMPSON
- AC108+ GOLD BY POWERS FASTENERS

USE STAINLESS STEEL SCREEN TUBES BY THE SAME MANUFACTURER WHEN USING THESE ADHESIVES IN MASONRY WITH Voids OR HOLLOW CHAM. INSTALL USING DRILL IN ROTATION-ONLY MODE TO KEEP FROM DAMAGING INSIDE OF FACE SHELL.

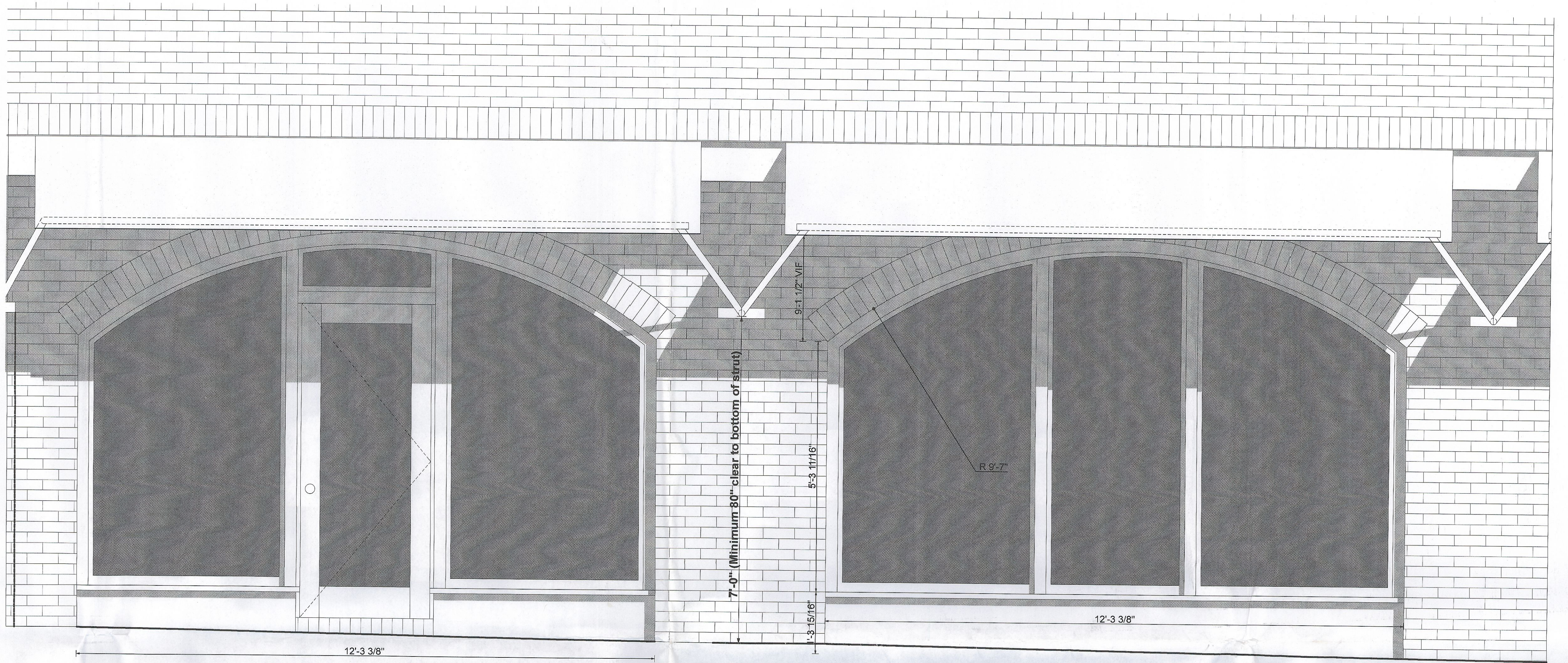
THREADED ROD ANCHORS USED WITH THESE SYSTEMS SHALL BE STANDARD STRENGTH STEEL ROD (ASTM A36) UNLESS NOTED OTHERWISE. REINFORCING STEEL USED WITH THESE SYSTEMS SHALL COMPLY WITH ASTM A615 GRADE 60.



**TYPICAL CANOPY FRAMING PLAN**

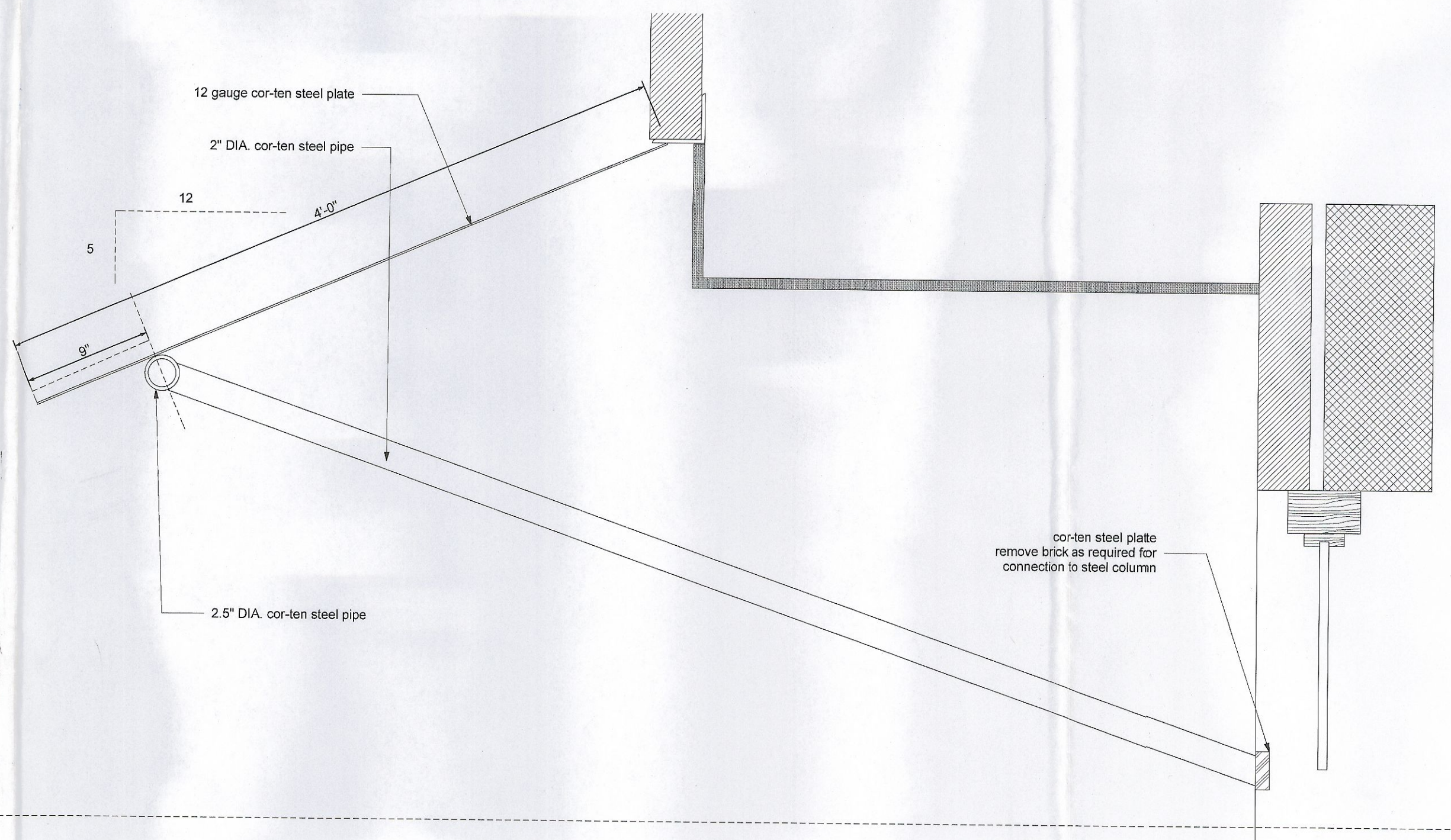
- 3/4" = 1'-0"
- REFER TO ARCHITECTURAL DRAWINGS FOR NUMBER AND LOCATION OF CANOPIES.
  - ROUND HSS SHAPES MAY BE SUBSTITUTED FOR PIPES OF EQUIVALENT DIAMETER AND WALL THICKNESS

DESIGNED	DATE	REV.	REMARKS
SCB			
DRAWN			
DMW			
CHECKED			
SCB			
<b>REVIEW DRAWING - NOT FOR CONSTRUCTION</b>			
 DUNBAR MILBY WILLIAMS PITTMAN & VAUGHAN, PLLC CONSULTING STRUCTURAL ENGINEERS 110 THIRD STREET, N.E. CHARLOTTEVILLE, VIRGINIA 22903-5224 PHONE (604) 288-5771 FAX (604) 977-4918			
SHEET TITLE: <b>FRAMING PLANS AND DETAILS</b> <b>CENTRAL PLACE CANOPY</b> <b>MAIN STREET</b> <b>CHARLOTTEVILLE, VA</b>			
DATE: 5/24/2012		DMMPV JOB NUMBER: 1202-17	
SHEET NO:		<b>S1</b>	



Awning Elevation  
 0 1 2 3

SCALE: 3/4" = 1'-0" 1  
A1



Awning Section  
 0 1 2 4 8

SCALE: 1 1/2" = 1'-0" 2  
A1

# GENERAL STRUCTURAL NOTES

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE - VUSBC (2009 EDITION) EFFECTIVE MARCH 1, 2011.

NO LOADS IN EXCESS OF THE DESIGN LIVE LOADS LISTED SHALL BE IMPOSED UPON ANY AREA DURING CONSTRUCTION, UNLESS ADEQUATE SHORING OR OTHER MEANS IS PROVIDED TO SUPPORT THE EXCESSIVE LOADS.

IF ANY CHANGES ARE MADE IN WEIGHT AND/OR LOCATION OF POINTS OF SUPPORT OF EQUIPMENT, THE CONTRACTOR SHALL FURNISH DETAILS OF CHANGES TO THE ARCHITECT FOR REVIEW AND NECESSARY MODIFICATIONS.

TEMPORARY BRACING, GUY WIRES, SHORING, ETC., SHALL BE USED AS NECESSARY TO RESIST ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED DURING CONSTRUCTION, INCLUDING EQUIPMENT AND ITS OPERATION.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

DRAWINGS DO NOT SHOW ALL OPENINGS. COORDINATE WITH MECHANICAL DRAWINGS. VERIFY SIZES AND LOCATIONS OF ALL OPENINGS WITH MECHANICAL.

REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING DETAILS.

THE ENGINEER SHALL NOT HAVE THE AUTHORITY OR RESPONSIBILITY TO SUPERVISE OR DIRECT THE CONSTRUCTION WORK.

ALL SECTIONS AND DETAILS, WHETHER EXPLICITLY CUT ON PLAN OR NOT, SHALL BE CONSIDERED TYPICAL AND SHALL APPLY AT SIMILAR CONDITIONS.

INFORMATION REGARDING STRUCTURAL MEMBERS INDICATED TO BE EXISTING WAS OBTAINED DURING LIMITED FIELD OBSERVATIONS AND FROM LIMITED AVAILABLE EXISTING DRAWINGS. ACTUAL CONDITIONS MAY DIFFER FROM THAT WHICH IS INDICATED. IF THE CONTRACTOR UNCOVERS EXISTING CONDITIONS THAT DIFFER FROM THAT WHICH IS INDICATED ON PLAN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF THE DISCREPANCY IN ORDER THAT THE CONDITION MAY BE RESOLVED.

FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE CONSTRUCTION AND FABRICATION OF ANY NEW STRUCTURAL MEMBERS.

## 2. DESIGN LOADS

A. BUILDING OCCUPANCY CATEGORY (TABLE 1604.5)

CATEGORY II

B. LIVE LOADS

ROOF 20 PSF

C. SNOW LOADS

PG=30 PSF (GROUND SNOW)  
 CE=1.0 (SNOW EXPOSURE FACTOR)  
 CT=1.2 (THERMAL FACTOR)  
 IS=1.0 (SNOW LOAD IMPORTANCE FACTOR: ASCE 7-05 TABLE 7-4)  
 MINIMUM PF (LOW-SLOPE ROOF WHERE PG > 20.0 PSF) =  
 $(30)(1.0)(1.2)(1.0)(1.0) = 36.0$  PSF  
 USE 30 PSF MINIMUM + DRIFT EFFECTS

D. WIND LOADS

V=80 MPH (BASIC WIND SPEED: 3-SECOND GUST)  
 IW=1.0 (WIND IMPORTANCE FACTOR: ASCE 7-05 TABLE 6-1)  
 EXPOSURE B  
 K<sub>D</sub>=0.85 (WIND DIRECTIONALITY FACTOR)  
 K<sub>Z</sub>=1.0 (TOPOGRAPHIC FACTOR)  
 C<sub>w</sub>=0.8 (NET PRESSURE COEFFICIENT)

WIND LOAD DETERMINATION BY:  
 ASCE 7-05, SECTION 6.5, METHOD 2 (ANALYTICAL PROCEDURE)

3. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-05 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

PIPE OR ROUND HSS SHAPES:	FY = 50 KSI
ASTM A67 WEATHERING STEEL	
ANGLES:	FY = 36 KSI
ASTM A588 WEATHERING STEEL	
PLATE:	FY = 50 KSI
ASTM A588 OR A588 WEATHERING STEEL	
E70XX (SAW PROCESS WELDING)	
ASTM A563 (HEAVY HEX NUT)	
ASTM F436 (HARDENED STEEL WASHER)	

ALL STRUCTURAL STEEL SHALL MEET THE CLOSER DIMENSIONAL TOLERANCES OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AS INDICATED IN THE AISC CODE OF STANDARD PRACTICE. CONFORM TO SPECIFICATIONS GOVERNING SPECIAL PROCEDURES FOR FABRICATION, ERECTION, FIELD PREPARATION, AND FINISH. GRIND VISIBLE WELDS AND ROUGH EDGES SMOOTH FOR SHOP AND FIELD FABRICATION AND INSTALLATION. UNLESS OTHERWISE DETAILED, NO VISIBLE BOLTED CONNECTIONS SHALL BE PERMITTED.

HOLES BURNED THROUGH EXPOSED STEEL ROOF OR FLOOR DECK DURING WELDING SHALL NOT BE ALLOWED. REPLACEMENT OF DECK IS REQUIRED.

ALL STEEL BOLTS, NUTS AND OTHER CONNECTION HARDWARE SHALL BE FURNISHED HOT-DIP GALVANIZED.

4. ALL POST-INSTALLED ANCHORS (IN MASONRY) ARE TO BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (INCLUDING BUT NOT LIMITED TO DRILL BIT SIZE, PROPER CLEANING OF HOLES, INSTALLATION TORQUE, AND TEMPERATURE CONSTRAINTS).

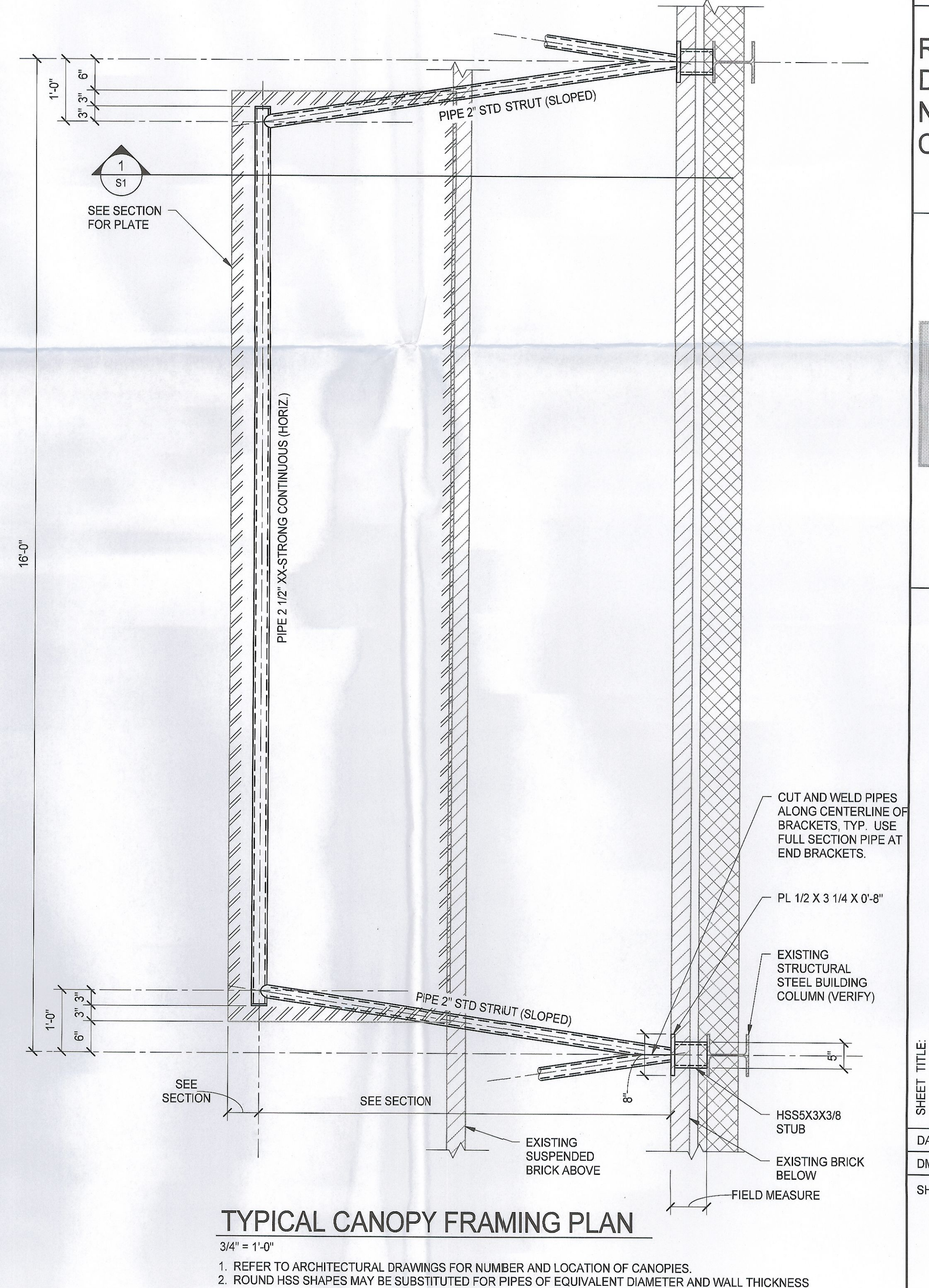
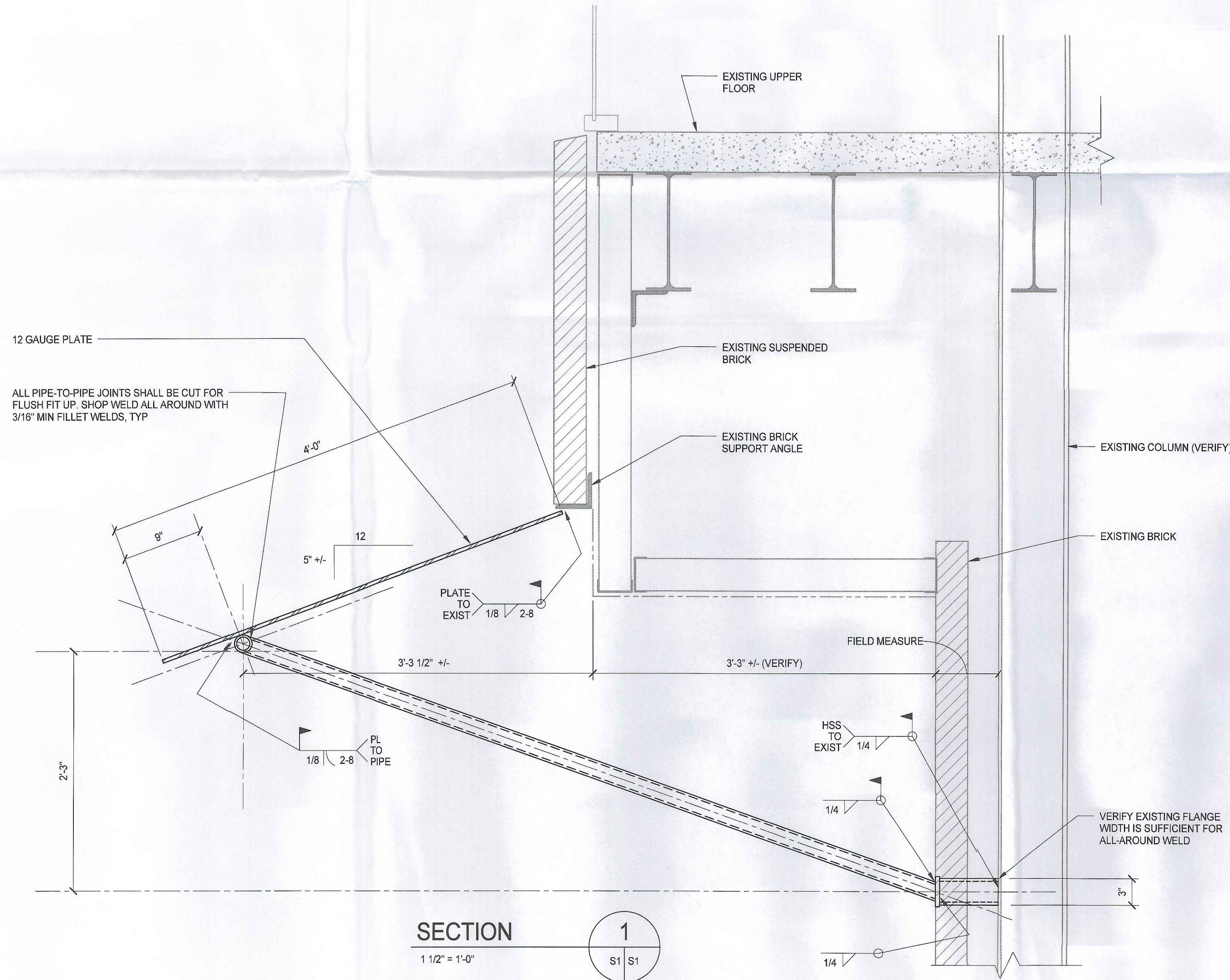
WHEN A SPECIFIC PRODUCT AND MANUFACTURER IS REFERENCED IN THE CONTRACT DOCUMENTS, THAT SPECIFIC PRODUCT SHALL BE USED UNLESS THE CONTRACTOR SUBMITS A REQUEST FOR A PRODUCT SUBSTITUTION OF AN ANCHOR WITH EQUIVALENT RESISTANCE VALUES IN THE APPROPRIATE BASE MATERIAL. ALL REQUESTS FOR SUBSTITUTION SHALL INCLUDE PRODUCT SPECIFICATIONS AND DESIGN DATA FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD (DMWPV). CONTRACTOR SHALL SUBMIT CALCULATIONS DEMONSTRATING PROPOSED SUBSTITUTION IS EQUAL TO APPROVED PRODUCTS.

CHEMICAL ANCHORING SYSTEMS USED IN HOLLOW MASONRY GENERALLY REFERRED TO AS "EPOXY" ANCHORING SYSTEMS SHALL BE ONE OF:

- HIT-100 BY HILTI
- AT ACRYLIC-TIE ANCHORING SYSTEM BY SIMPSON
- AC108+ GOLD BY POWERS FASTENERS

USE STAINLESS STEEL SCREEN TUBES BY THE SAME MANUFACTURER WHEN USING THESE ADHESIVES IN MASONRY WITH VOIDS OR HOLLOW CMU. INSTALL USING DRILL IN ROTATION-ONLY MODE TO KEEP FROM DAMAGING INSIDE OF FACE SHELL.

THREADED ROD ANCHORS USED WITH THESE SYSTEMS SHALL BE STANDARD STRENGTH STEEL ROD (ASTM A36) UNLESS NOTED OTHERWISE. REINFORCING STEEL USED WITH THESE SYSTEMS SHALL COMPLY WITH ASTM A615 GRADE 60.



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FRAMING PLANS AND DETAILS  
 CENTRAL PLACE CANOPY  
 MAIN STREET

SHEET TITLE  
 DATE: 5/24/20  
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