2

CITY OF PORTLAND, OREGON - BUREAU OF DEVELOPMENT SERVICES

1900 SW Fourth Avenue, Suite 5000 • Portland, Oregon 97201 • www.portlandonline.com/bds • Fax 503-823-7425

Facility Permit Plan Intake Form

FOR INTAKE, STAFF USE ONLY

Date Received 5-29-19

Building Registration #

Fixed Bid

Bin # FF4

Building Permit # 17-251204 REV 01 FA

Mechanical #

Plumbing Permit #

Electrical Permit #

Building/Mechanical JEFF D 2

Electrical

Plumbing

Fire TODD B 3

Planning

BES

PDOT

Structural DAVID T 1

Other

5/31

APPLICANT: Complete all sections below that apply to the project, Please ~~print~~ legibly.

Print Name Damaris Luce Sign Name

Street Address 740 N knott st

City Portland State Oregon Zip Code 97227

Day Phone 503.288.9393 FAX email dluce@streimer.com

Plans / permits available for pick up at 1900 SW 4th Avenue, 2nd floor between 8:00 am to 5:00 pm

Contact Name for plan/permit pick up Damaris Luce

Day Phone 503.288.9393 email dluce@streimer.com

Project Building Name / # Portland Building

Project Address or Location 1134 SW 5th Ave, Portland, OR 97204

Project Name and Description Portland Building Terracotta, ~~testing~~ Scient lab study/Testing

Total Project Value Project Reference #/Billing ID #

Building Contractor CCB #

MechanicalContractor Streimer Sheet Metal Works CCB # 2365

Electrical Contractor CCB# License #

Plumbing Contractor CCB# License #

☐ Building Permit

No. of Stories

Const. Type

Alarms Required

Smoke Det. Req'd

Sprinklers Req'd

Struct. Eng / Calcs Submitted

☐ Mechanical Permit

Mechanical Valuation

Description

☐ Electrical Permit

Please provide a completed standard electrical permit application form. You may mail or deliver it to 1900 SW 4th Avenue, Portland, Oregon 97201 or FAX to 503-823-7425.

☐ Plumbing Permit

Number of Fixtures

Back Flow Devices

Water Service (# of Feet)

Medical Gas

Other 1

City of Portland
REVIEWED FOR CODE COMPLIANCE
JUN 07 2019
17-251204 REV 01 FA
Permit Number

17-251204 REV 01 FA

FF4

Structural Special Inspection and Observation Program Checksheet

The registered design professional in responsible charge shall prepare and submit a special inspection and structural observation program in accordance with IBC Sections 1704.1.1, 1705.2, and 106.3.4.1, and confirm that the special inspection and structural observations noted below are indicated on the drawings.

~ Please Note that separate Soils and Life Safety Inspection Checksheets may also be required ~

Instructions – Parts D and E of this Checksheet must be fully completed by the Owner (or Architect or Engineer acting as the owner's agent) in order to obtain your permit.
When complete, return this form to BDS Permitting Services. You may return it in person at 1900 SW 4th Ave, by fax to (503) 823-4172, or by email to specialinspectionsforms@portlandoregon.gov

Application #	17-251284-DFS-05-FA	**Date:**	MAY 28, 2019
Project Name:	BW-DFS Terra Cotta:Enclosure 4099499:Portland Bld:Downtown		
Site Address:	1120 SW 5TH AVE		
Architect of Record (Firm)		**Phone #**	
Engineer of Record (Firm)		**Phone #**	

The following special inspections and structural observations shall be performed according to the State Building Code and City of Portland Special Inspection Program Administrative Rules unless a program of inspections is submitted by the Engineer of Record and approved by Bureau of Development Services.

A. REQUIRED SPECIAL INSPECTIONS FOR ALL BUILDING TYPES

☐ Steel Construction	☐ Concrete Construction	☐ Anchors – Adhesive	☐ Wood Construction
☐ Curtainwall	☐ Prestressed Concrete	☐ Anchors – Cast-in-place	☐ Masonry
☒ Structural Silicone Glazing	☐ Shotcrete	☒ Anchors – Expansion/Screw	☐ Cold Formed Steel Framing

B. REQUIRED SPECIAL INSPECTIONS FOR CATEGORY III AND IV BUILDINGS (In addition to those noted above.)

☐ Seismic Force Resist. System	☐ Storage Racks	☐ Access Floors	☐ Suspended Ceilings
☐ Mechanical Components	☐ Electrical Components	☐ Cladding	☐ Veneer
☐ Nonbearing Walls	☐ Seismic Isolation System		

C. STRUCTURAL OBSERVATION

☒ Required (The stages of construction at which structural observation is to occur shall be indicated on the drawings.)

D. APPROVED SPECIAL INSPECTOR OR INSPECTION AGENCY (To be completed by the applicant.)

Indicate the City approved special inspector or special inspection agency to perform the required special inspections noted in parts A. and B. above:

☐ ACS (503) 443-3799	☐ KE & Associates (503) 853-9033	☐ PSI (503) 289-1778
☐ Carlson Testing (503) 684-3460	☐ KPFF SIG (503) 227-3251	☐ Other:
☐ Clair Company (541) 758-1302	☐ Materials Testing/Insp (208) 376-4748	☐
☐ Columbia West Eng (360) 823-2900	☒ Mayes Testing, Inc. (503) 281-7515	☐
☐ FEI Testing (541) 757-4698	☐ Northwest Geotech (503) 682-1880	☐

E. To be completed by the applicant.

By completing Part E the project owner (or the Architect or Engineer acting as the Owner's Agent) hereby agrees to employ the special inspector or inspection agency and/or engineer of record for the above noted special inspections and/or structural observations. (***Contractors are NOT authorized to agree for the Owner.)***

The project owner shall provide a copy of this checksheet to the special inspection agency and engineer of record.

Print Name MIRO RADOJKOVSKI (Project Owner or the Architect or Engineer acting as the Owner's Agent) Date 5/28/2019

Firm DAY CPM Phone

APPLICANT – COMPLETE PARTS D & E

SCAN

2

17-25284 REV 01 FA

DCI ENGINEERS

www.dci-engineers.com

Washington
Oregon
California
Texas
Alaska
Colorado
Montana

May 23, 2019

Streimer Sheet Metal Works, Inc.
740 N Knott St
Portland, OR 97227

ATTN: Jacob Dorfler
Re: Portland Building Terracotta Tile Panel Sealant Load Testing

Dear Mr. Dorfler:
We've reviewed "Terracotta Tile Panel Sealant Load Testing Report" (Report #: 82191102.0003) dated 05/16/2019 provided by Mayes Testing Engineers.

We also reviewed the "Performance Test Report" by Architectural Testing Inc., Intertek company ("Intertek-ATI") dated 01/11/2018. This report provides the product description, test procedures, and test results to evaluate the DOWSIL 795 in accordance with ASTM C1184.

The results of both tests are described below:

Mayes Testing - Bond Strength Results:

Per Mayes testing report, the average load resisted by the ½" length DOWSIL 795 sealant installed into the full depth of the kerf of terracotta panels is 71.9 lbs. with a standard deviation of 12.2 lbs. These tests yield an average ultimate bond strength of 100 psi.

Architectural Testing - Environmental Results:

Based on the environmental performance test report, tests were performed to evaluate the heat aging per ASTM C792, Tensile Adhesion (Bond strength per ASTM C1135 over various environmental conditions. Per heat aging testing the % weight loss is 1.897%. Per testing results of tensile adhesion under 5000 hours (> 28 weeks) of UV light exposure, the average bond strength is 78 psi.

Conclusions:

The DOWSIL 795 sealant is acceptable product to use in the kerfs of terracotta panels to prevent horizontal movement during a seismic event.

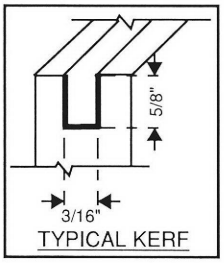
The environmental tests reduce the bond strength of DOWSIL 795 sealant and DCI revised our calculations, using the lower bond strength to determine the proper length of the sealant in the kerf joint. With a factor of safety of 2.5, DCI recommends filling the kerfs of terracotta

panels with at least ¾" long DOWSIL 795 sealant. Provide a minimum gap of ¾" at the kerf between the sealant and stone anchor bracket.

Calculations:

DOWSIL 795 Sealant Length in the Kerf Determination:

Average tensile bond strength after 5000 hrs of UV Light Exposure =	78 psi
Length of Kerf in contact with the sealant = 0.625 x 2 + 3/16 =	1.44 in
for 1 in length, Area of the kerf =	1.44 sq .in



TYPICAL KERF

Capacity of the sealant per inch

P_n= Kerf area in contact with sealant x tensile capacity

P_n= 112.13 lbs

Assuming Factor of safety of 2.5

Capacity of the sealant per inch =	44.85 lbs	
Demand =	27.00 lbs	Seismic in-plane force
Length Required =	0.60 in	

Provide 3/4" long DOWSIL 795 sealant in the kerf of Terracotta panels

Please call with questions.

Sincerely,
DCI Engineers

EXPIRES: 6-30-20

Wade Younie, SE

Enclosed:

1. Terracotta Tile Panel Sealant Load Testing Report by Mayes Testing Engineers
2. Performance Test Report by Architectural Testing Inc
3. Permit Calculation page A-4: Seismic Fp

DRAWING LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION
F2.0	PRECAST CONCRETE WALL SPREAD FOOTING SCHEDULE)	I	INDICATES WIDE FLANGE COLUMN
FP	PRECAST CONCRETE WALL PILE CAP SCHEDULE)	▫	INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR STEEL PIPE COLUMN
⊗	TILT-UP/PRECAST CONCRETE WALL CONNECTION SYMBOL (REFER TO CONNECTION DETAIL)	○	INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR STEEL PIPE COLUMN
HS	SHEAR WALL SYMBOL (REFER TO SHEAR WALL SCHEDULE)	▫	INDICATES WOOD POST
	REVISION TRIANGLE	▪	INDICATES BANDED STUDS
1	TILT-UP/PRECAST CONCRETE WALL PANEL MARK (REFER TO PRECAST CONCRETE WALL ELEVATIONS)		INDICATES CONCRETE COLUMN
	CMU WALL REINFORCING SYMBOL CMU WALL REINFORCING SCHEDULE		INDICATES PRECAST CONCRETE COLUMN
CP	CONTINUITY PLATE LENGTH (REFER TO TYPICAL DETAIL)		INDICATES MOMENT FRAME CONNECTION
SB	INDICATES TILT-UP/PRECAST CONNECTIONS DETAIL)		INDICATES DRAG CONNECTION
SR	INDICATES STRAP AT WALL REQUIRED AT COLUMN (REFER TO STUD WALL DETAILS)		INDICATES WOOD OR STEEL STUD WALL
	INDICATES BRACE FRAME SYMBOL (REFER TO DIAPHRAGM NAILING SCHEDULE)		INDICATES MASONRY/CMU WALL
C1	STEEL COLUMN SYMBOL (REFER TO STEEL COLUMN SCHEDULE)		INDICATES CONCRETE/TILT-UP CONCRETE WALL
7.25x18 X'-X"	ELEVATION SYMBOL (7'-6"ABOVE THIS FLOOR) TO COMPONENT THAT THE ELEVATION IS REFERENCED		INDICATES WOOD OR STEEL STUD SHEAR WALL
1	INDICATES TYPE OF SHEAR CONNECTION (REFER TO TYPICAL SHEAR PLATE CONNECTIONS DETAIL)		INDICATES BEARING WALL BELOW
5/8	STUD BUBBLE (INDICATES NUMBER OF STUDS REQUIRED IF EXCEEDS 1)		INDICATES EXISTING WALL
4	INDICATES STEP IN FOOTING (REFER TO TYPICAL STEP IN FOOTING DETAIL)		POST-TENSION DEAD END (PLAN)
L V.S/X.X	DETAILS OR SECTION CUT (DETAIL NUMBER/SHEET NUMBER)		POST-TENSION STRESSING END (PLAN)
4 A2 V.S/X.X	DETAILS OR SECTION CUT IN PLAN VIEW (DETAIL NUMBER/SHEET NUMBER)		POST-TENSION PROFILE (PLAN) (IN INCHES)
V.S/X.X	INDICATES LOCATION OF CONCRETE FRAME ELEVATIONS OR BRACED		INTERMEDIATE STRESSING (PLAN)
	SPAN INDICATOR (INDICATES EXTENTS STRUCTURAL COMPONENTS) OTHER		
	INDICATES DIRECTION OF DECK SPAN		

ABBREVIATIONS

∠	Angle	FIN	Finish	PSI	Pounds Per Square
@	At	FTG	Footing	PSL	Parallel Strand
ADBL	Anchor Bolt	FRP	Fiberglass Reinforced Plastic	PT	Post-Tensioned
ADDL	Additional	FRT	Fire Retardant Treated	P.T	Pressure Treated
ALT	Alternate	FTG	Footing	RD	Roof Drain
APPROX	Approximate	GA	Gage	REINF	Reinforcing
B	Architectural Bottom Of	GALV	Galvanized	REQD	Required
B/	Bottom Of	GEOTECH	Geotechnical	RET	Retaining
BLKG	Blocking	GL	Glue Laminated	RTU	Roof Top Unit
BMU	Brick Masonry Unit	GWB	Gypsum Wall Board	SCBF	Special Concentric
BRBF	Buckling Restrained OMB	HDR	Header	SCMF	Special Moment Frame
BRG	Bearing	HF	Hem-Fir	SCHED	Schedule
BTWN	Between	HGR	Hanger	SFRS	Seismic Force-
C	Centerline	HORIZ	Horizontal	SHTHG	Sheathing
C	Camber	HP	Horizontal Pipe	SHTG	Shoring System
C'BORE	Counterbored Beam	HSS	HSS (Hollow	SLBR	Slab
CIP	Cast In Place	IBC	Structural Section) International Building	SMF	Short Leg Horizontal Moment Frame
CJ	Control Joint or Construction Joint	ID	Inside Diameter	SPD	Sub-on Grade
CLG	Ceiling	IE	Inside Elevation	SPEC	Specification
CLR	Clear	INT	Interior	SQ	Square
CLT	Cross-Laminated Timber	k	Kips	SR	Studrail
CMU	Concrete Masonry Unit	KSF	Kips Per Square Foot	SST	Stainless Steel
COL	Column	LL	Live Load	STAGG	Stagger/Staggered
CONC	Concrete	LLBB	Long Leg Back-to-Back	STD	Standard
CONST	Construction	LLH	Long Leg Horizontal	STIFF	Stiffener
CONT	Continuous	LLV	Long Leg Vertical	STL	Steel
CONTR	Contractor	LONGIT	Longitudinal	STRUCT	Structural
C'SUNK	Countersunk	LSL	Laminated Strand Lumber	SYM	Solid Web Wood Symmetrical
CTRD	Centered	LVL	Laminated Veneer Lumber	T	Top Of
DB	Diameter Bar	MAS	Masonry	T&B	Top & Bottom
DBA	Deformed Bar Anchor	MECH	Mechanical	TC AX LD	Axial Load
DEMO	Demolish	MFR	Manufacturer	TCX	Top Chord Extension
DEV	Development	MIN	Minimum	TEMP	Temperature
DF	Douglas Fir	MISC	Miscellaneous	THRD	Threaded
DIAG	Diagonal	N	Not In Contract	T&G	Tongue & Groove
DIST	Distributed	NLT	Timber	THRU	Through
DL	Dead Load		Laminated	TOC	Top Of Concrete
DN	Down	NTS	Not To Scale	TYP	Typical
DP	Depth/Deep	OCSF	Ordinary Concentric Steel Frame	UBC	Uniform Building Code
(E)	Existing	OD	Outside Diameter	UNO	Unless Noted Otherwise
EA	Each	OF	Outside Face	URM	Unreinforced Masonry
EF	Each Face	OPNG	Opening	VERT	Vertical
ELEV	Elevation	OPP	Opposite	W	Wide
ELEC	Electrical	OWSJ	Open Web Steel Joist	W/	With
ELEV	Elevator	OWWJ	Open Web Wood Joist	W/O	Without
EMBED	Embedment	P&F	Pipe & Furr	WP	Working Point
EQ	Equipment	PAF	Pulse Actuated Fastener	WPS	Welding Procedure Spec
EQUIP	Equipment	PC	Precast	WWF	Welded Wire Fabric
EW	Each Way	PLYWD	Plywood	X	Plus or Minus
EXP JT	Expansion Joint	PP	Perimeter Penetration		
FD	Floor Drain	PSF	Pounds per Square Foot		
FDN	Foundation				

FOR PERMIT

These drawings are sufficiently complete for submission to the jurisdiction having authority for permit. The Contractor shall not use these drawings for construction until Contractor receives written approval for use in construction by the jurisdiction having authority and DCI Engineers.

PROJECT TITLE:

PORTLAND BUILDING TERRACOTTA

1134 SW 5TH AVE
PORTLAND, OR 97204

SHEET TITLE:

STRUCTURAL GENERAL NOTES, LEGEND & ABBREVIATIONS

SHEET NO: S1.1

Plot Scale: 1 = 1

STREIMER
SHEET METAL WORKS, INC.
740 N KNOTT ST
PORTLAND, OR 97227

APPROVALS:

Job No.:	18031-0058
Proj. Manager:	GM
Drawn:	AW
Reviewed:	WY
Dwg. Chk.	WY
Date:	08-31-2018
Scale:	AS NOTED

REVISIONS:

1	PLAN CHECK	12/05/2018
2	PLAN CHECK	01/21/2019
3	- NOT USED -	
4	PLAN CHECK	02/21/2019
5	REVISION 1	05/28/2019

SIGNATURE:

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 16, 1999 — WADE W. YOUNG — EXPIRES: 6-30-20

PREPARED BY:

DCI ENGINEERS®
921 SW Washington Street, Suite 560
Portland, Oregon 97205
P: (503) 242-2448 www.dci-engineers.com
CIVIL / STRUCTURAL

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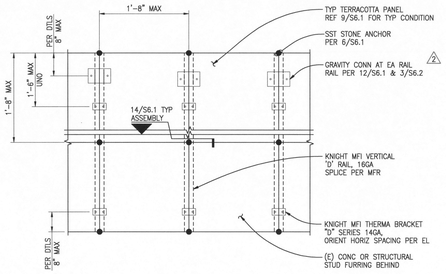
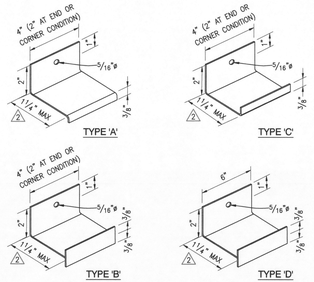
CITY OF PORTLAND
Approved
Bureau of Development Services
JUN 07 2019
1-251284 REV 01 FA
See Conditions

1-251284 REV 01 FA



TYPICAL TERRACOTTA ELEVATION

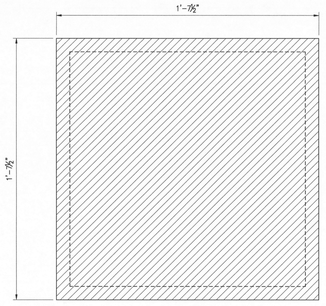
SCALE: 1"=1'-0" — 1



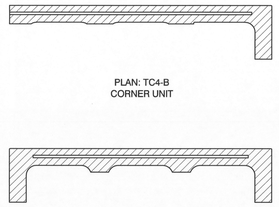
NOTE:
STAINLESS STEEL STONE ANCHORS TO BE SST BENT PL 1/8

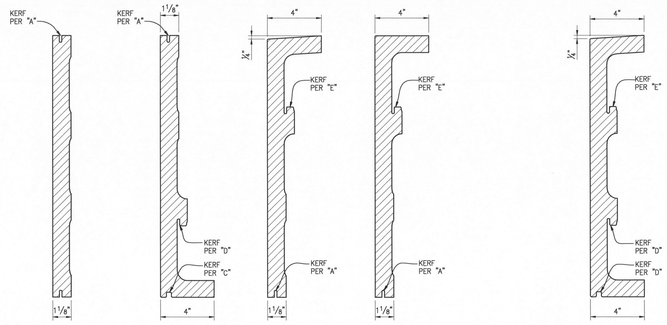
STAINLESS STEEL STONE ANCHORS

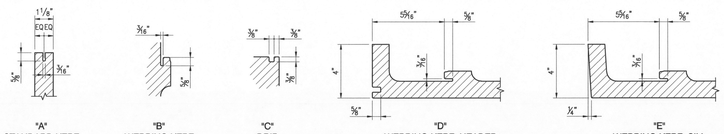
SCALE: NONE — 6



TYPICAL PANEL ELEVATION



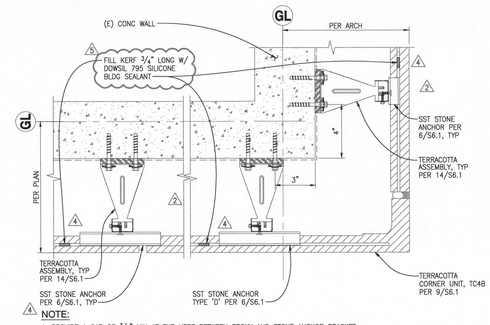




TERRACOTTA CLADDING UNIT SHAPES

REF 51/A10.10

SCALE: 3"=1'-0" — 9

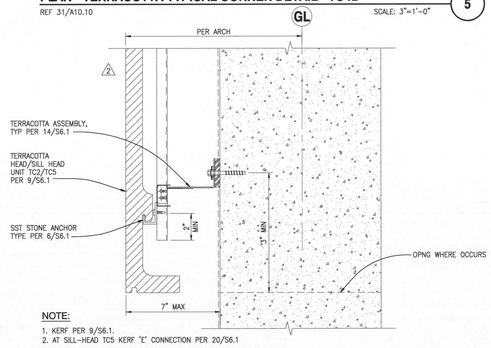


NOTE:
1. PROVIDE A GAP OF 3/4" MIN AT THE KERF BETWEEN EPOXY AND STONE ANCHOR BRACKET.

PLAN - TERRACOTTA TYPICAL CORNER DETAIL - TC4B

REF 31/A10.10

SCALE: 3"=1'-0" — 5

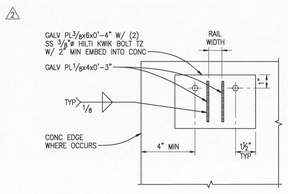


NOTE:
1. KERF PER 9/S6.1.
2. AT SILL-HEAD TC5 KERF 'E' CONNECTION PER 20/S6.1

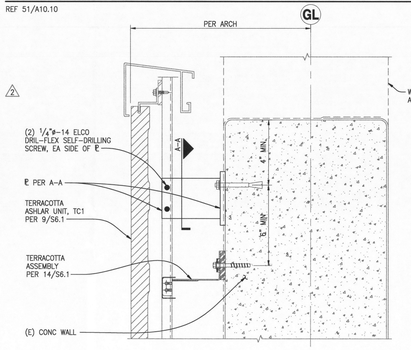
SECTION - TERRACOTTA TO METAL PANEL HEAD TC2/SILL-HEAD TC5 CONDITION

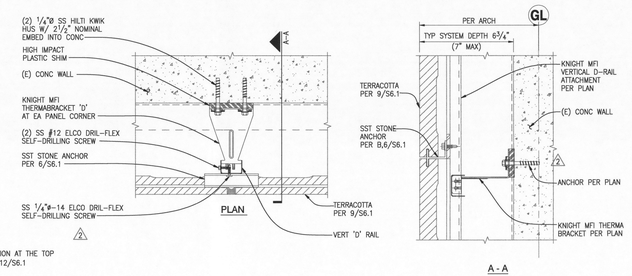
REF 32/A10.10

SCALE: 3"=1'-0" — 10



A-A



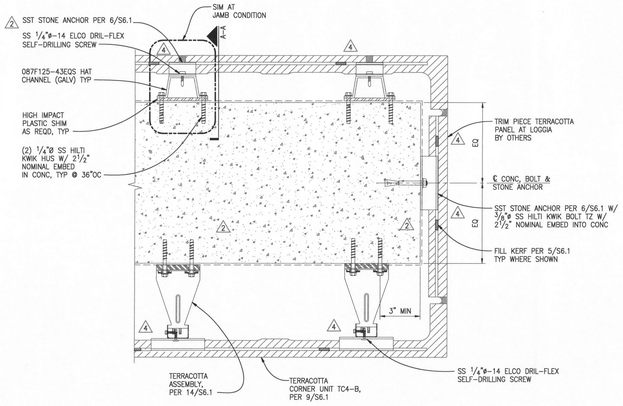


NOTE:
1. GRAVITY CONNECTION AT THE TOP OF EACH RAIL PER 12/S6.1

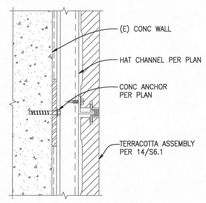
TYPICAL TERRACOTTA ASSEMBLY

REF 61/A10.10

SCALE: 3"=1'-0" — 14



PLAN



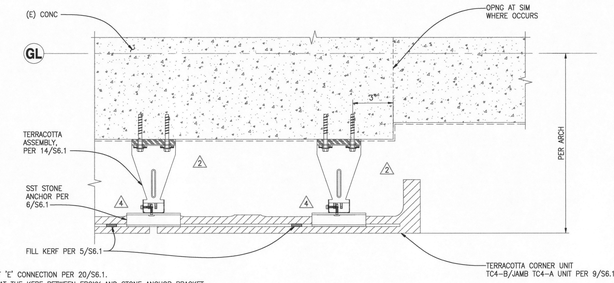
A - A

NOTE:
1. PROVIDE A GAP OF 3/4" MIN AT THE KERF BETWEEN EPOXY AND STONE ANCHOR BRACKET.

PLAN - LOGGIA OPENING AT TERRACOTTA

REF 21/A10.10

SCALE: 3"=1'-0" — 22

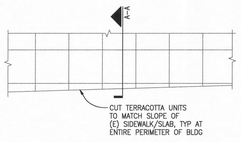


NOTE:
1. AT JAMB UNIT TC4-A AT KERF 'E' CONNECTION PER 20/S6.1.
2. PROVIDE A GAP OF 3/4" MIN AT THE KERF BETWEEN EPOXY AND STONE ANCHOR BRACKET.

PLAN - TERRACOTTA AT METAL PANEL

REF 65/A10.10 & 51/A10.12

SCALE: 3"=1'-0" — 19

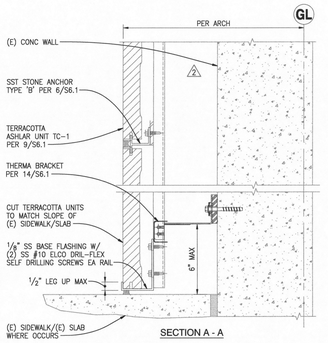


PARTIAL ELEVATION AT SIDEWALK
(NOT TO SCALE)

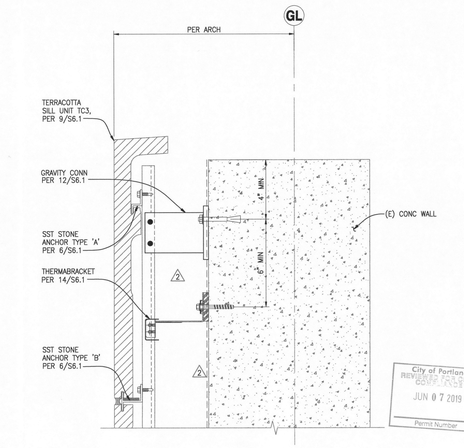
TYPICAL TERRACOTTA AT SIDEWALK/SLAB

REF 53/A10.10, 63/A10.10

SCALE: 3"=1'-0" — 23



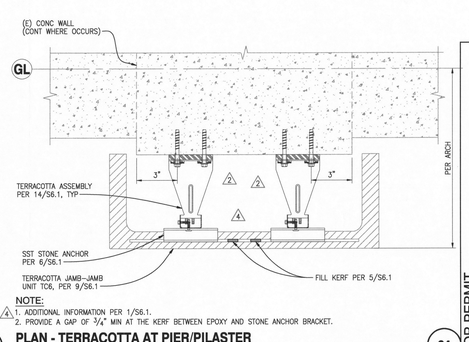
SECTION A - A



SECTION - WINDOW SILL TO TERRACOTTA - TC3

REF 55/A10.10

SCALE: 3"=1'-0" — 20



NOTE:
1. ADDITIONAL INFORMATION PER 1/S6.1.
2. PROVIDE A GAP OF 3/4" MIN AT THE KERF BETWEEN EPOXY AND STONE ANCHOR BRACKET.

PLAN - TERRACOTTA AT PIER/PILASTER

REF 31/A10.10, 51/A10.10

SCALE: 3"=1'-0" — 24

PREPARED BY:
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REVISIONS:
1 PLAN CHECK 12/05/2018
2 PLAN CHECK 01/21/2019
3 NOT USED 02/21/2019
4 PLAN CHECK 05/24/2019
5 REVISION 1

APPROVALS:
Job No.: 18031-0058
Proj. Manager: GM
Drawn: AM
Reviewed: WY
Dwg. Chk.: WY
Date: 08-31-2018
Scale: AS NOTED

STREIMER
SHEET METAL WORKS, INC.
740 N KNOTT ST
PORTLAND, OR 97227

PROJECT TITLE:
PORTLAND BUILDING TERRACOTTA
1134 SW 5TH AVE
PORTLAND, OR 97204

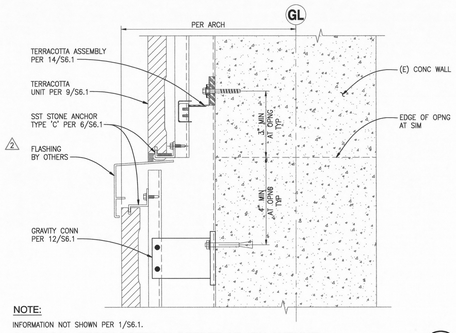
FOR PERMIT

SHEET TITLE:
STRUCTURAL DETAILS

SHEET NO.
S6.1

Plot Scale: 1 = 1

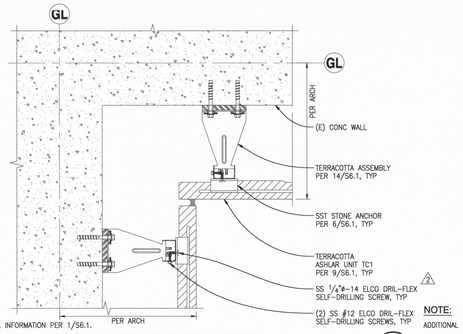
18031-0058 S61.dwg 28-May-19 1:10 PM bonfurnovich



NOTE:
INFORMATION NOT SHOWN PER 1/S6.1.

SECTION - TERRACOTTA 2" OFFSET AT 4TH AVENUE 1

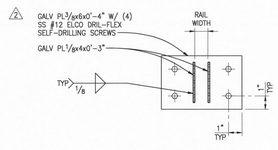
REF 64/A10.13 SCALE: 3"=1'-0"



NOTE:
ADDITIONAL INFORMATION PER 1/S6.1.

PLAN - TYPICAL TERRACOTTA AT INSIDE CORNER 2

SCALE: 3"=1'-0"

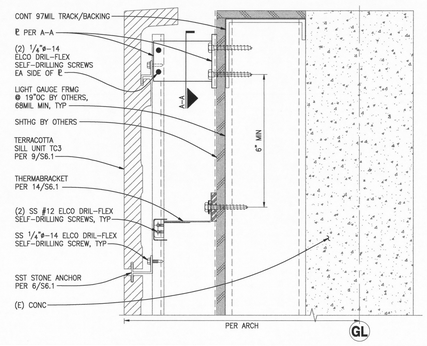


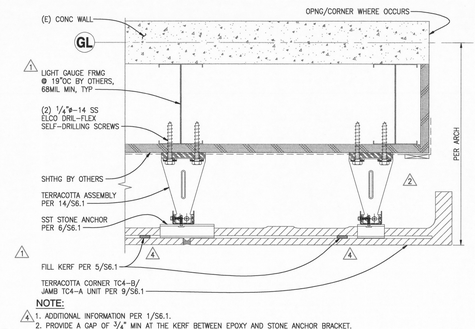
A - A

NOTE:
ADDITIONAL INFORMATION PER 1/S6.1.
REF 45/A10.12

SECTION - WINDOW SILL TO TERRACOTTA (LEVEL 03) 3

SCALE: 3"=1'-0"





NOTE:
1. ADDITIONAL INFORMATION PER 1/S6.1.
2. PROVIDE A GAP OF 3/4" MIN AT THE KERF BETWEEN EPOXY AND STONE ANCHOR BRACKET.

PLAN - WINDOW JAMB TO TERRACOTTA (LEVEL 03) 5

REF 65/A10.12 SCALE: 3"=1'-0"

NOTE:
ADDITIONAL INFORMATION PER 1/S6.1.

SECTION - WINDOW HEAD TO TERRACOTTA (LEVEL 03) 6

REF 25/A10.12 SCALE: 3"=1'-0"

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OREGON
EXPIRES: 6/30/20

REVISIONS:
1 PLAN CHECK 12/05/2018
2 PLAN CHECK 01/21/2019
- NOT USED -
1 PLAN CHECK 02/21/2019
1 REVISION 1 05/28/2019

APPROVALS:
Job No.: 18031-0058
Proj Manager: GM
Drawn: AM
Reviewed: WY
Dwg. Chk.: WY
Date: 09-31-2018
Scale: AS NOTED

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1134 SW 5TH AVE
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SHEET TITLE:
STRUCTURAL DETAILS

SHEET NO. S6.2

FOR PERMIT
These drawings are sufficiently complete for submission to the jurisdiction having authority for permit. The Contractor shall not use these drawings for construction purposes until they are approved by the authority having jurisdiction and all permits have been obtained.

City of Portland
BUREAU OF DEVELOPMENT SERVICES
JUN 07 2019
Permit Number

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Plot Scale: 1 = 1