

Hartsfield-Jackson Atlanta International Airport

City of Atlanta

Department of Aviation

Office of Infrastructure Planning & Development

Tenant

**New Construction and
Modifications**

Design Standards

Architectural

Design Standards Architectural

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Design Standards Architectural

1.0 Purpose

The purpose of this document is to outline the minimum Architectural requirements for New Construction and/or Modifications related to Tenant submitted projects at the City of Atlanta's Hartsfield-Jackson Atlanta International Airport (ATL).

2.0 General

A. Applicable Codes and Standards

1. All design work shall be performed in accordance with generally accepted professional principles and practices for Architectural Design and in compliance with all applicable Federal, State and City of Atlanta Design Codes, Standards and Regulations and the Department of Aviation (DOA), Planning & Development Bureau (P&D) Design and Construction Standards for Concessions New Construction and Modifications.
2. Where there may be conflicting requirements in the codes, standards and regulations, the most stringent provision, as determined by P&D shall be applied.

B. Existing Space Requirements

1. Modifying Existing Structures
 - a. Proposed space modifications shall comply with the standards included in this manual, Sections 2 through 8.
2. New Floor, Wall and Roof Penetrations
 - a. Proposed penetrations and/or openings for existing floors, walls, and roofs shall comply with the Structural Design Standards, Section 4 of this manual.
3. Repair of Existing Floor and Roof Penetrations
 - a. Repair/filling of existing cores and/or openings for Concrete Floors, Concrete Floors on Steel Deck, Steel Deck Roof, and Concrete on Steel Deck Roof and Concrete Deck Roof shall comply with Details No.1 through No. 6 (Attached as part of these standards).
4. Temporary Construction Walls
 - a. Temporary construction walls shall be full height (to underside of finished ceiling).
 - b. Walls shall be constructed of metal studs with gypsum wall board, on the public side, and be attached to the existing floor. The gypsum board shall be painted and shall include finished baseboard (colors to be selected by Owner).
 - c. Any damage to existing base building finishes shall be repaired by Tenant at no cost to the Owner.
5. Existing Ceilings
 - a. Replacement, demolition and/or removal of existing ceiling(s) and associated lighting and mechanical systems above public (lease) spaces, ticketing, hold rooms, baggage claim, seating and circulation areas shall include the removal of all abandoned hangers, supports, electrical feeds, mechanical ducts and/or other appurtenant items above the ceiling.
 - b. Re-attach /Replace any missing junction box covers.

6. Floor Mounted Appurtenances

- a. Any appurtenances such as luggage carts, luggage cart dispensing equipment, wheelchairs, wheelchair corrals, seating, advertisement, corporate signage, directories, self-service kiosks and any other floor mounted equipment throughout the airport's interior and exterior public facilities, shall not be a safety hazard to public circulation, obstruct passenger flow or impede any emergency path of travel or exit. Locations shall be submitted to the DOA /P&D for review and acceptance.

3.0 Design

A. General

1. Design shall incorporate good design practices that match and/or enhance existing conditions.
 - a. Existing base building finishes outside a Tenant's lease line (Horizontal and Vertical) shall be maintained
 - b. Tenant is responsible for correcting any damage to existing base building finishes caused by the construction work
 - c. Tenant is responsible for ensuring that all building service tie-ins to existing base building infrastructure meet DOA Design and Construction Standards
 - d. All materials and finishes used shall be of equal or higher quality to existing base building finishes
 - e. Additions or modifications that impact or interface with existing Terminal roof systems shall be compatible with in-place roof systems and conditions. The ATL standard roofing system is a single-ply membrane fully adhered (Per Manufacture's Specification) 135 mil Fleece back TPO roofing system (80 mil w/55 mil Fleece back) over new insulation with heat welded TPO sheet seams
 - f. Penetrations of existing CPTC Roof

Installer must utilize and maintain all Atlanta Airlines Terminal Corporation (AATC) required approvals and shut down requests criteria including roof warranty approvals during satellite antenna installation.

- g. Designers shall incorporate good design practices including, but not limited to:
 - i. Sustainable design (**Please see Section 3, Sustainability Design Standards**)
 - ii. Adaptability
 - iii. Healthy design (air quality)
 - iv. Utilize materials native to the region when possible
 - v. Utilize materials that are permanent, high quality and durable
 - vi. Design for energy efficiency

4.0 Appendices

A. Appendix No. 1

- Detail No.1 Concrete on Steel Deck Floor Repair
- Detail No.2 Concrete Floor Repair
- Detail No.3 Steel Deck Roof Repair
- Detail No.4 Concrete on Steel Deck Roof Repair
- Detail No.5 Concrete Deck Roof Repair
- Detail No.6 Pipe Thru System over Conc. On Steel Deck
- Detail No.7 Pipe Thru Roofing System over Steel Deck
- Detail No.8 Pipe Thru Roofing System over Conc. Slab
- Detail No.9 Satellite Mast and Pad on Conc. Slab
- Detail No.10 Satellite Mast on Concrete
- Detail No.11 Satellite Mast on Metal Deck
- Detail No. 12 Expansion Joint Detail

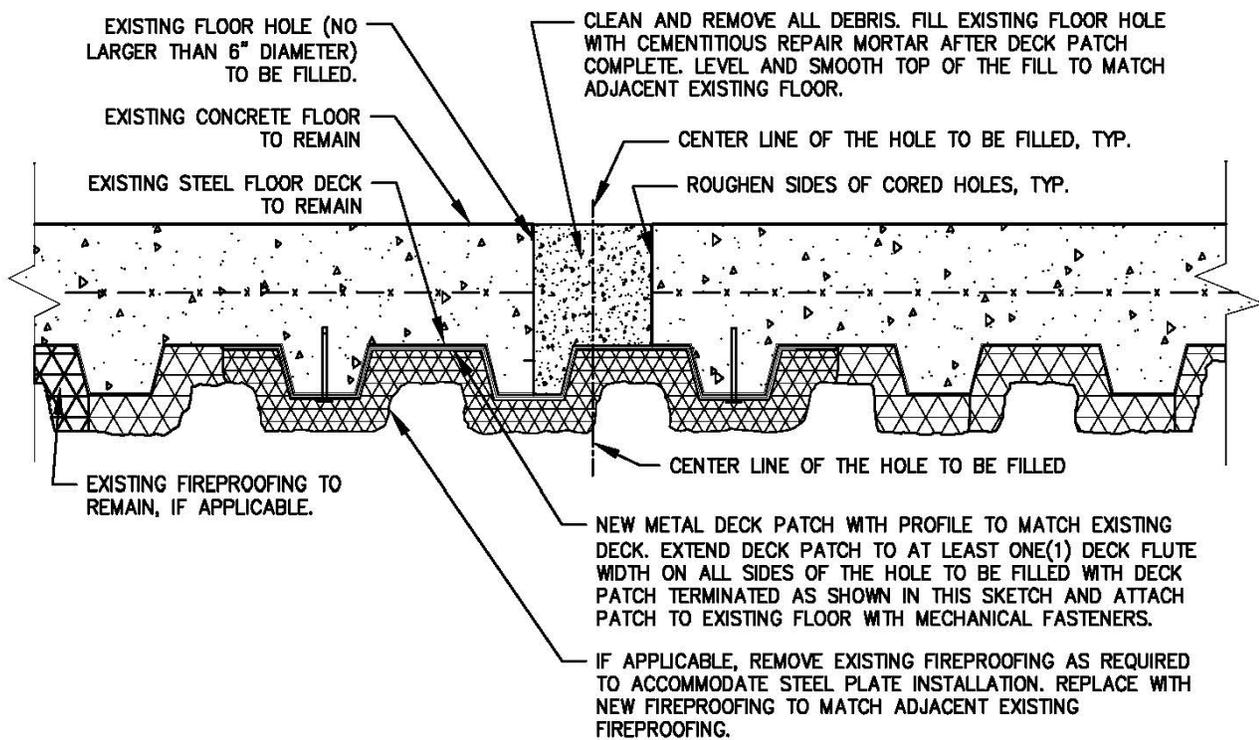
Detail No.1 Concrete on Steel Deck Floor Repair

Requirements for Filling Penetrations in Existing Elevated Concrete Slabs

Proposed filling of cores or openings in existing elevated concrete slabs shall be evaluated by a Georgia registered structural design professional, who shall provide stamped requirements in the construction documents whenever either:

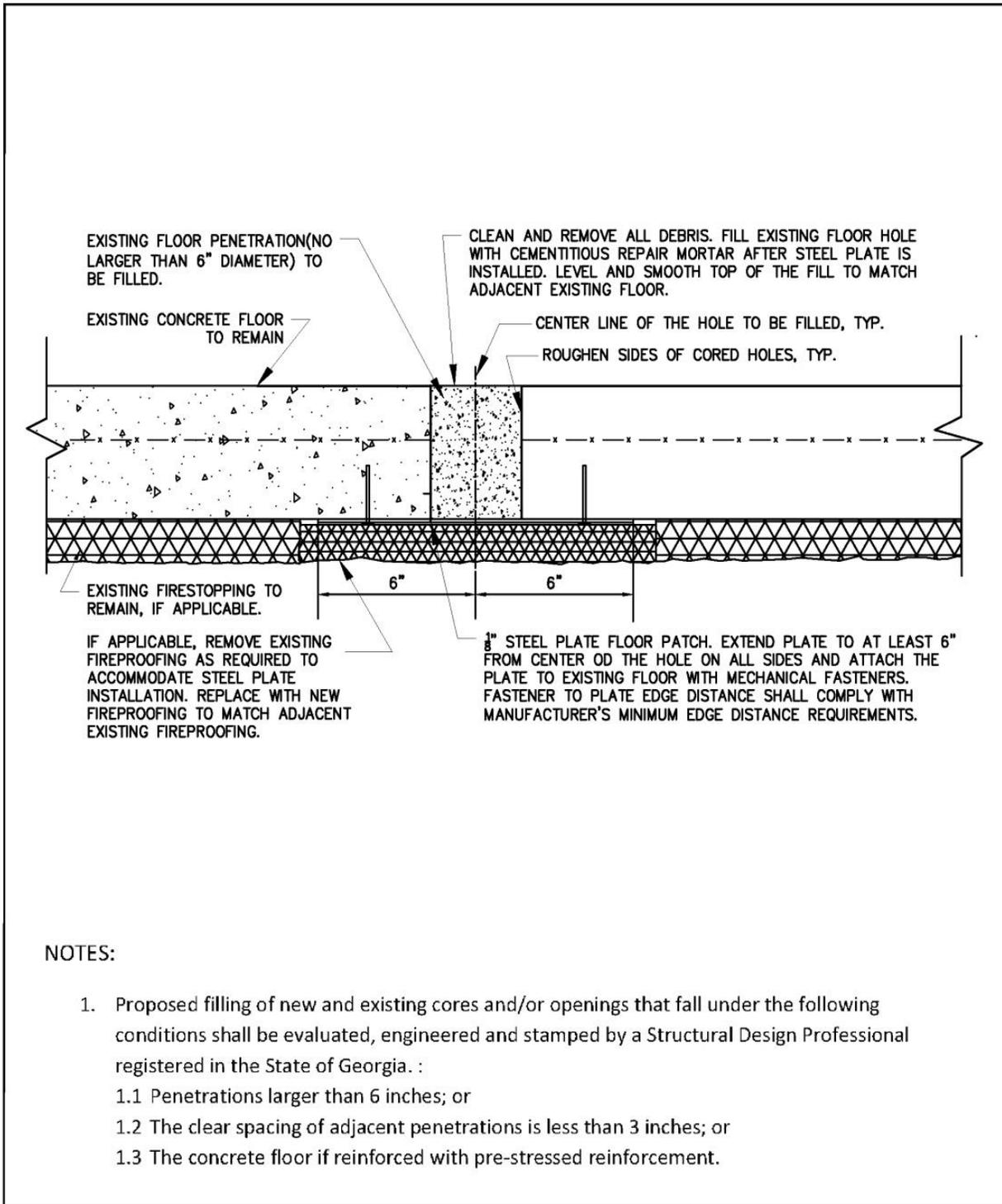
1. The clear spacing of adjacent cores or openings will be less than 3 inches; or
2. The core or opening is proposed for a concrete floor reinforced with prestressed reinforcement; or
3. The greatest dimension for the opening or core proposed exceeds 6 inches.

Cores or openings in concrete slabs, for which none of the above restrictions are applicable, shall be reinstated with a cementitious repair mortar in accordance with the manufacturer's written instructions for preparation, mixing, placement, finishing and curing. Also, see detail below for more information.



PROJECT: ELEVATED FLOOR REPAIR FOR OPENING 6" OR LESS			SKETCH NO.
DRAWING NAME: CONCRETE ON STEEL DECK FLOOR REPAIR			1
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: CM	NONE
No.		DESIGNED BY: CM	
No.		CHECKED BY: CHECK	
No.		CONTRACT: NONE	
No.		WBS: NONE	
No.		SCALE: NTS	
		DATE: 08/20/2013	REFERENCE DWG. NO.

Detail No.2 Concrete Floor Repair

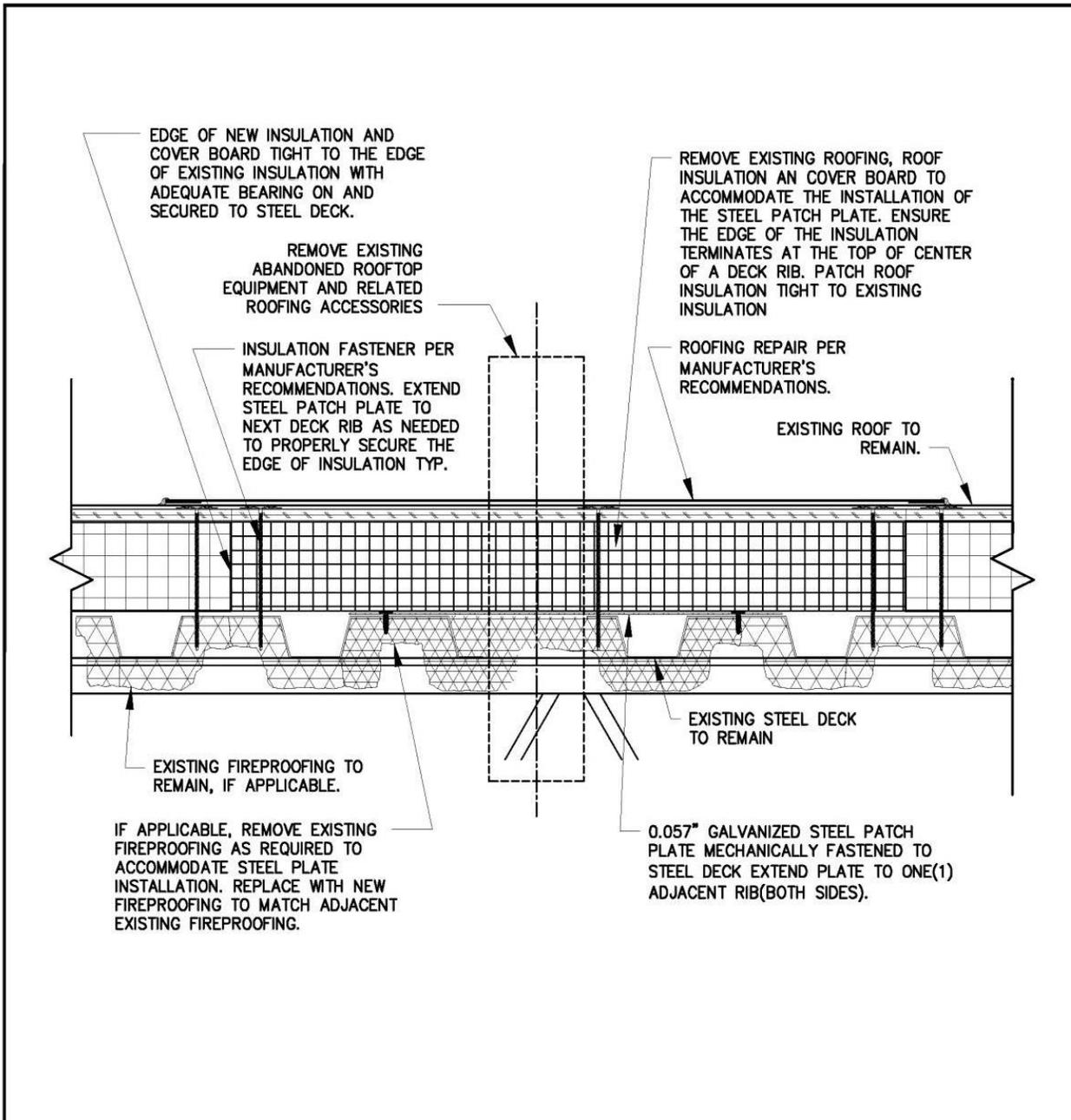


NOTES:

1. Proposed filling of new and existing cores and/or openings that fall under the following conditions shall be evaluated, engineered and stamped by a Structural Design Professional registered in the State of Georgia. :
 - 1.1 Penetrations larger than 6 inches; or
 - 1.2 The clear spacing of adjacent penetrations is less than 3 inches; or
 - 1.3 The concrete floor if reinforced with pre-stressed reinforcement.

PROJECT: ELEVATED FLOOR PENETRATION REPAIR DETAIL			DETAIL NO.
DRAWING NAME: CONCRETE FLOOR REPAIR			2
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: CM DESIGNED BY: CM CHECKED BY: CHECK CONTRACT: NONE WBS: NONE SCALE: NTS DATE: 03/26/2014	REFERENCE DWG. NO.
No.			NONE
No.			

Detail No.3 Steel Deck Roof Repair

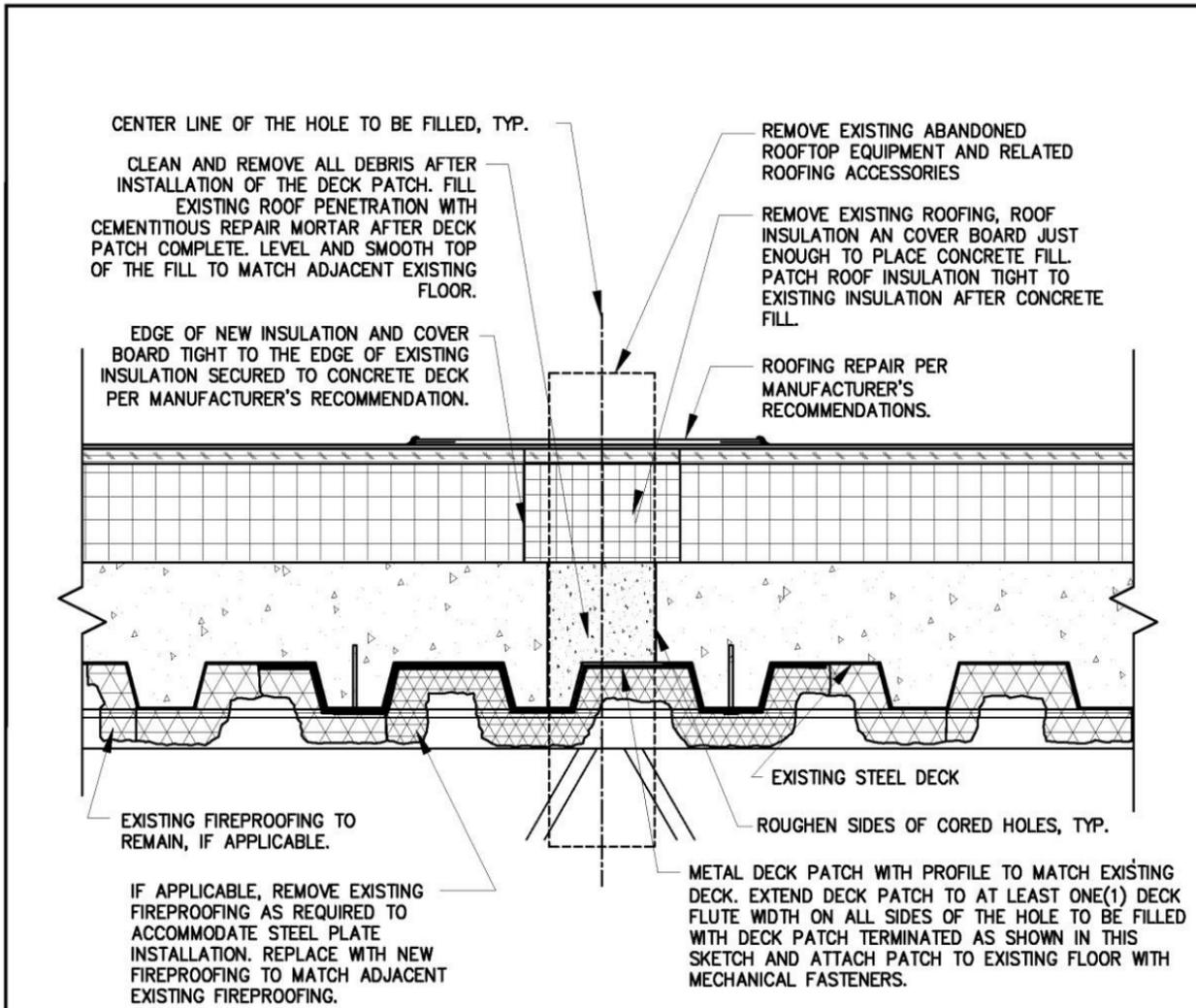


NOTES:

Proposed filling of new and existing penetrations larger than 13 inches shall be evaluated, engineered and stamped by a Structural Design Professional registered in the State of Georgia.

PROJECT: ROOF PENETRATION REPAIR DETAIL			DETAIL NO.
DRAWING NAME: STEEL DECK ROOF REPAIR			3
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: CM DESIGNED BY: CM CHECKED BY: CHECK CONTRACT: NONE WBS: NONE SCALE: NTS DATE: 03/26/2014	REFERENCE DWG. NO.
No.			NONE
No.			

Detail No.4 Concrete on Steel Deck Roof Repair

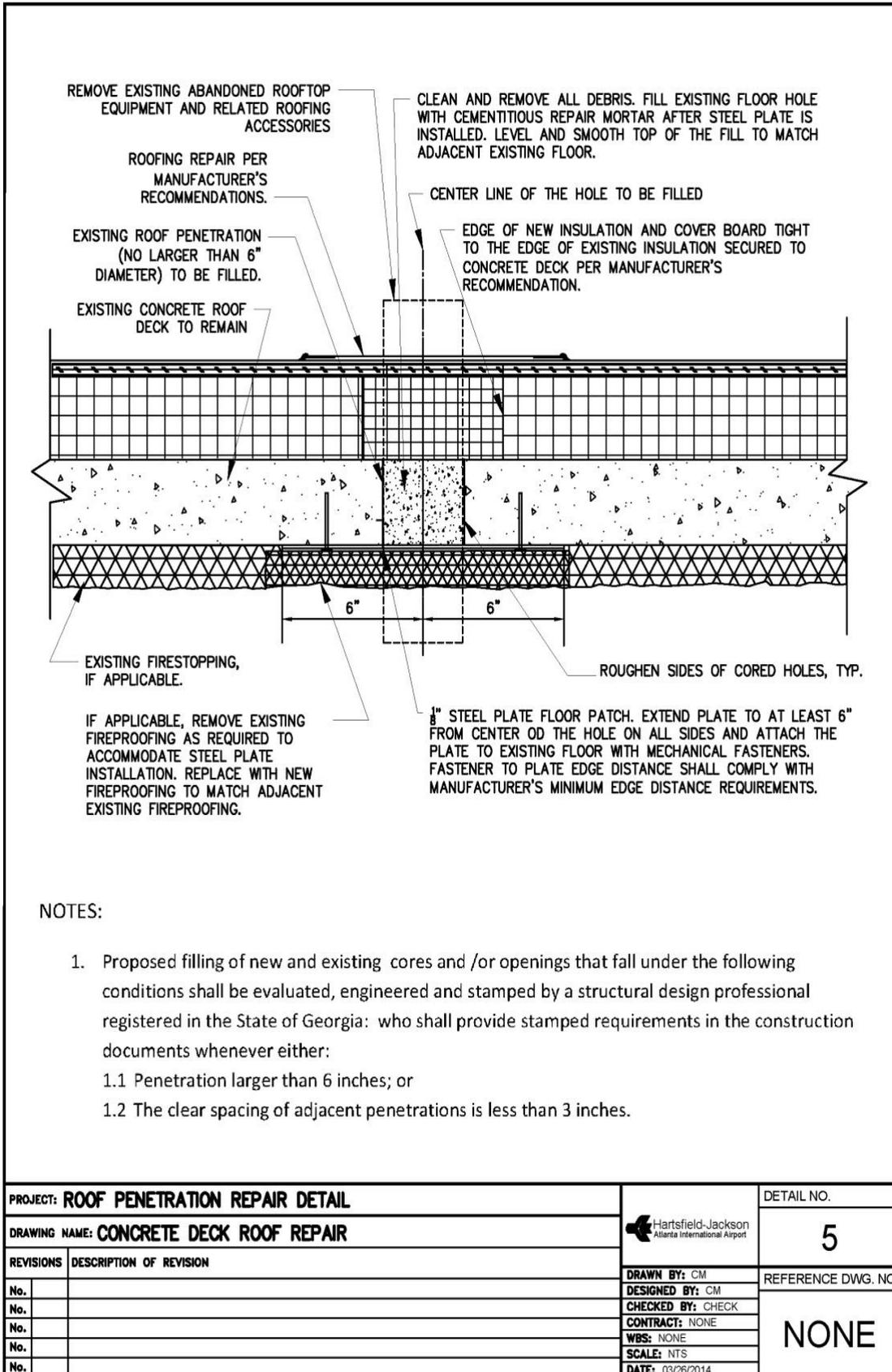


NOTES:

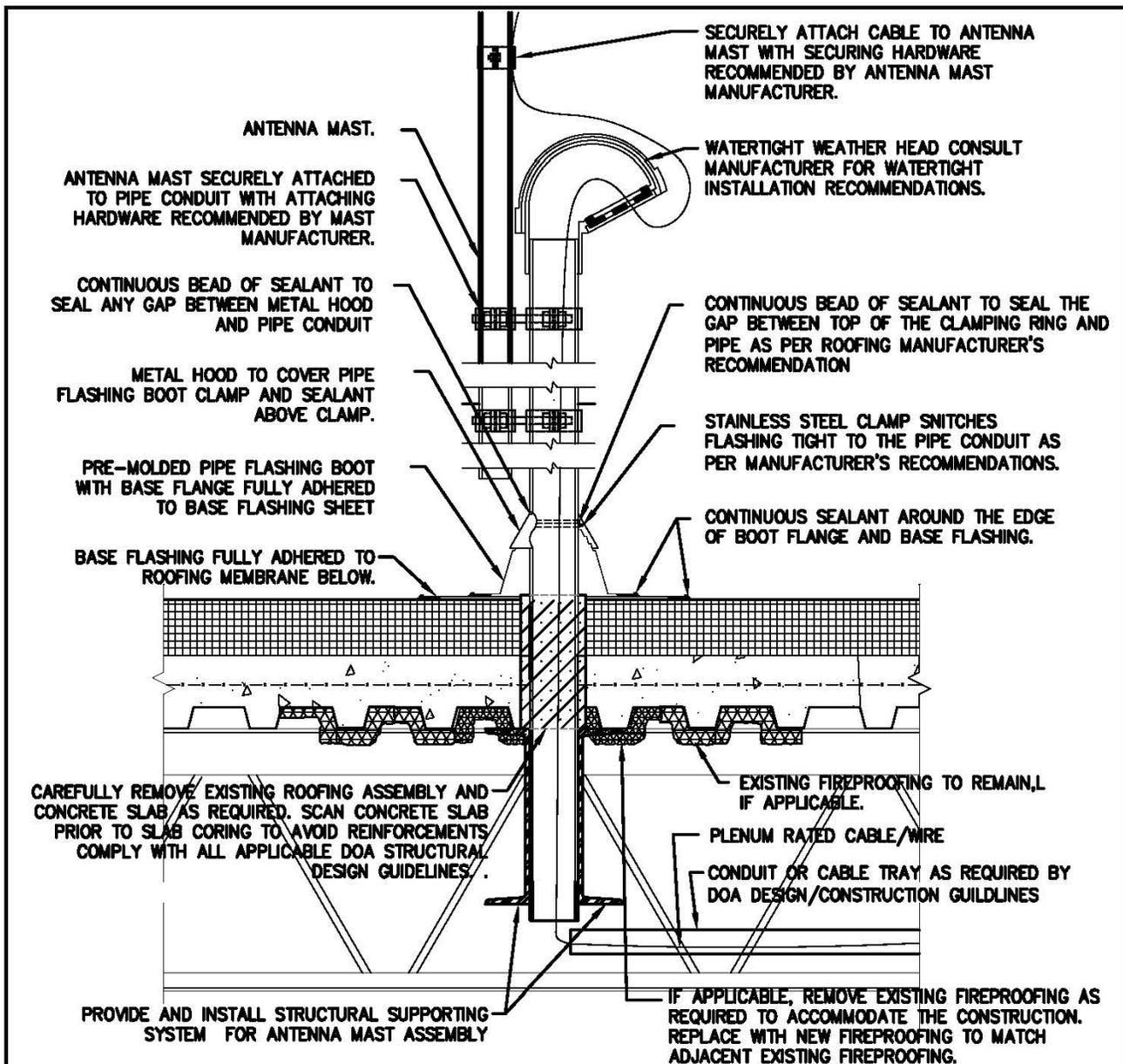
1. Proposed filling of new and existing cores and /or openings that fall under the following conditions shall be evaluated, engineered and stamped by a structural design professional registered in the State of Georgia: who shall provide stamped requirements in the construction documents whenever either:
 - 1.1 Penetration larger than 6 inches; or
 - 1.2 The clear spacing of adjacent penetrations is less than 3 inches.

PROJECT: ROOF PENETRATION REPAIR DETAIL			DETAIL NO.
DRAWING NAME: CONCRETE ON STEEL DECK ROOF REPAIR			4
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: CM DESIGNED BY: CM CHECKED BY: CHECK CONTRACT: NONE WBS: NONE SCALE: NTS DATE: 03/26/2014	REFERENCE DWG. NO.
No.			NONE
No.			

Detail No.5 Concrete Deck Roof Repair



Detail No.6 Pipe Thru Roofing System Over Conc. On Steel Deck

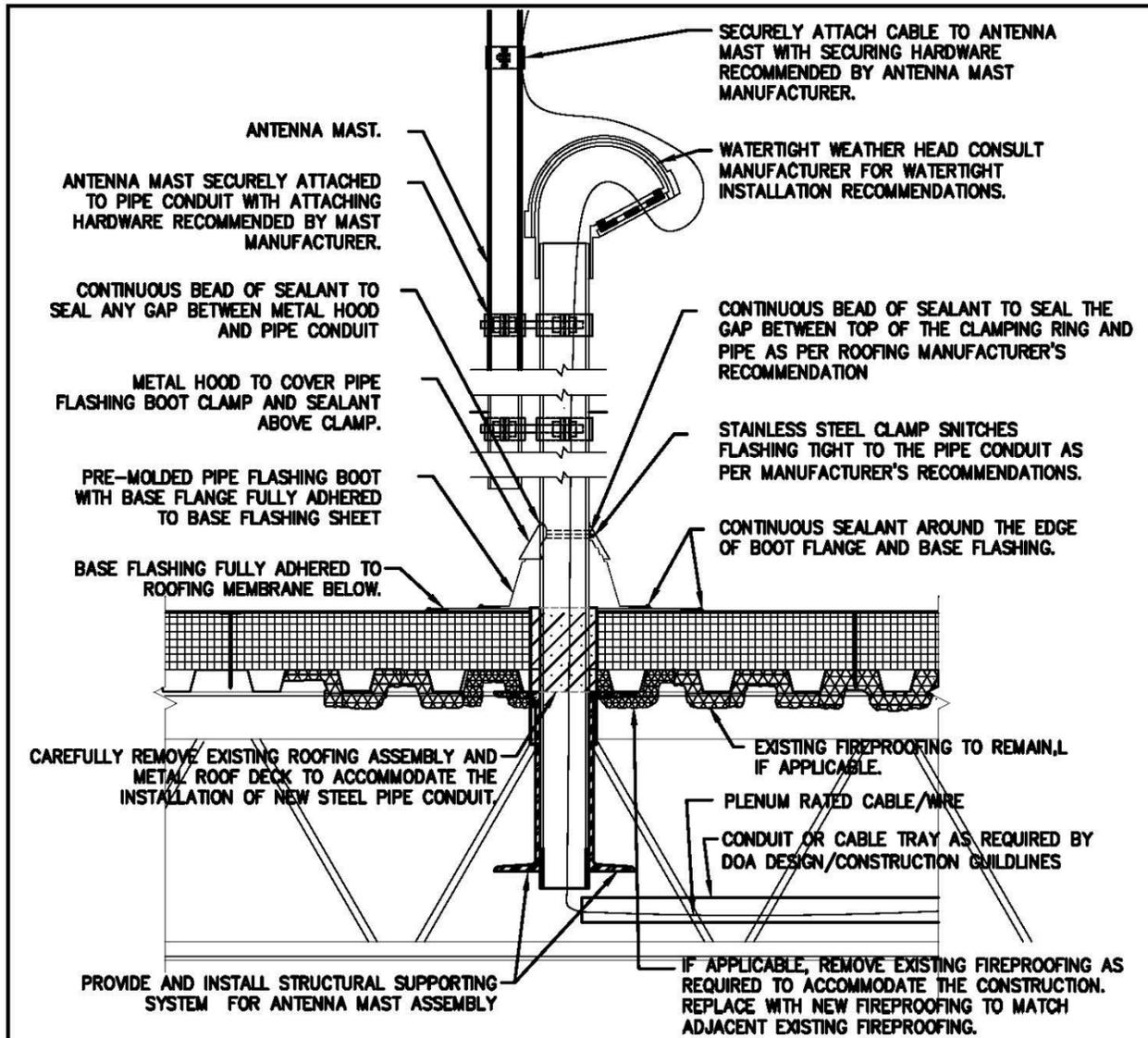


NOTES:

1. ANTENNA MAST, PIPE CONDUIT, PIPE CLAMPS AND STRUCTURAL SUPPORTING SYSTEM SHALL BE DESIGNED BY A GEORGIA STATE REGISTERED STRUCTURAL DESIGN PROFESSIONAL. SUBMIT DESIGN, DESIGN CALCULATIONS AND DETAILS, ON SIGNED AND SEALED DRAWINGS TO DOA PLANNING AND DEVELOPMENT FOR REVIEW.
2. THE SUPPORTING STRUCTURAL SHALL MINIMIZE THE VIBRATION IMPACT DAMAGE TO THE EXISTING ROOF ASSEMBLY.
3. PITCH POCKET IS UNACCEPTABLE AS WEATHER PROTECTION FOR ROOFING PENETRATION.
4. VERIFY EXISTING ROOF ASSEMBLY FIRE-RESISTANCE-RATING REQUIREMENT, PROVIDE AND INSTALL FIRESTOP SYSTEM AS NEEDED. SUBMIT PROPOSED FIRESTOP SYSTEM TO DOA PLANNING AND DEVELOPMENT FOR REVIEW.
5. ENSURE NEW CONSTRUCTION WILL NOT IMPACT EXISTING BUILDING WARRANTY OF ANY KIND.

PROJECT: EXISTING ROOF PENETRATION DETAIL FOR ANTENNA MAST			DETAIL NO.
DRAWING NAME: PIPE THRU ROOFING SYSTEM OVER CONC. ON STEEL DECK			6
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: XX DESIGNED BY: XX CHECKED BY: CHECK CONTRACT: NONE WBS: NONE SCALE: NTS DATE: 03/26/2019	REFERENCE DWG. NO.
No.			NONE
No.			
No.			
No.			

Detail No. 7 Pipe Thru Roofing System Over Steel Deck

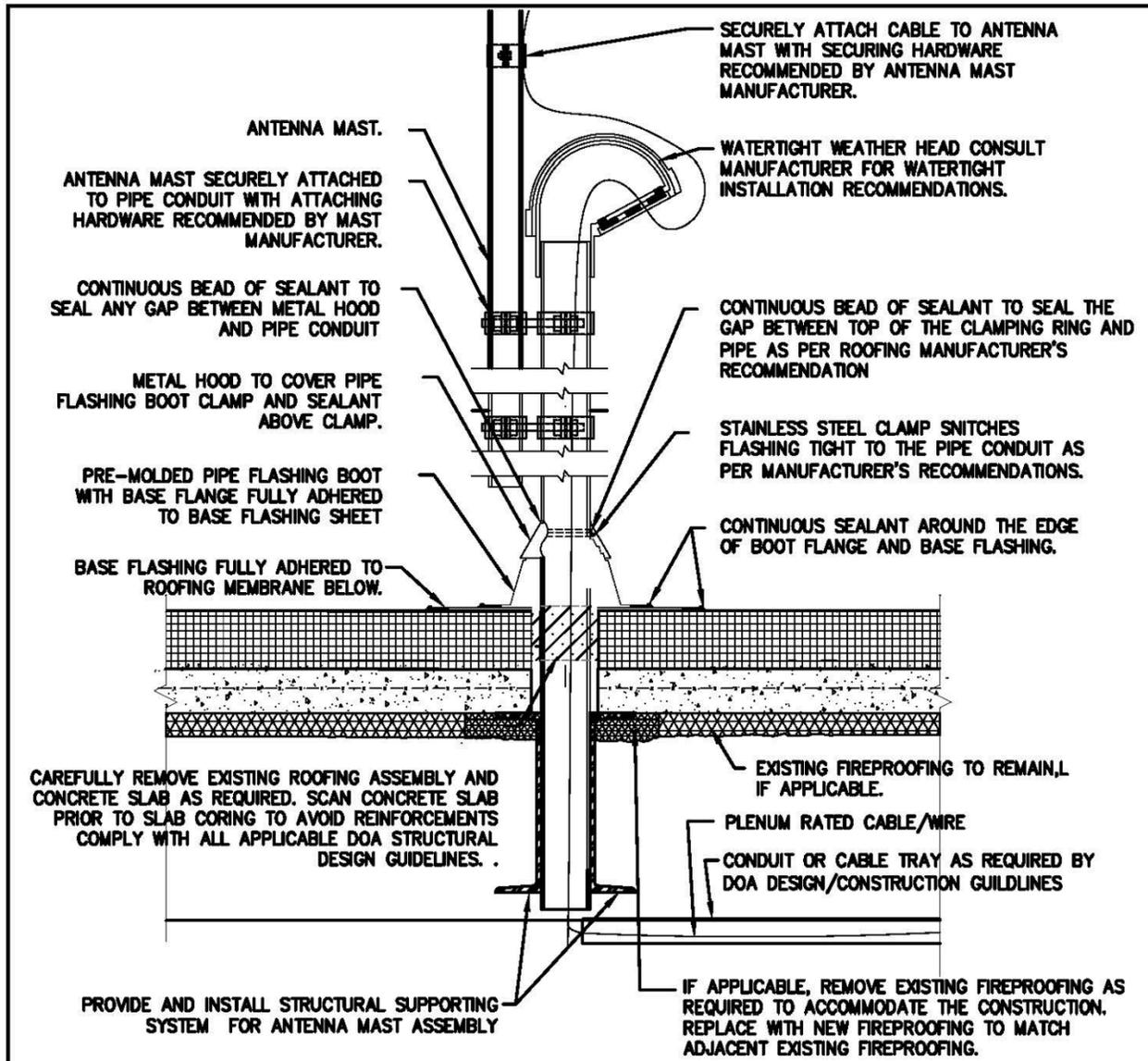


NOTES:

1. ANTENNA MAST, PIPE CONDUIT, PIPE CLAMPS AND STRUCTURAL SUPPORTING SYSTEM SHALL BE DESIGNED BY A GEORGIA STATE REGISTERED STRUCTURAL DESIGN PROFESSIONAL. SUBMIT DESIGN, DESIGN CALCULATIONS AND DETAILS, ON SIGNED AND SEALED DRAWINGS TO DOA PLANNING AND DEVELOPMENT FOR REVIEW.
2. THE SUPPORTING STRUCTURAL SHALL MINIMIZE THE VIBRATION IMPACT DAMAGE TO THE EXISTING ROOF ASSEMBLY.
3. PITCH POCKET IS UNACCEPTABLE AS WEATHER PROTECTION FOR ROOFING PENETRATION.
4. VERIFY EXISTING ROOF ASSEMBLY FIRE-RESISTANCE-RATING REQUIREMENT, PROVIDE AND INSTALL FIRESTOP SYSTEM AS NEEDED. SUBMIT PROPOSED FIRESTOP SYSTEM TO DOA PLANNING AND DEVELOPMENT FOR REVIEW.
5. ENSURE NEW CONSTRUCTION WILL NOT IMPACT EXISTING BUILDING WARRANTY OF ANY KIND.

PROJECT: EXISTING ROOF PENETRATION DETAIL FOR ANTENNA MAST			DETAIL NO.
DRAWING NAME: PIPE THRU ROOFING SYSTEM OVER STEEL DECK			7
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: XX	REFERENCE DWG. NO.
No.		DESIGNED BY: XX	
No.		CHECKED BY: CHECK	
No.		CONTRACT: NONE	
No.		WBS: NONE	
No.		SCALE: NTS	
		DATE: 05/13/2019	NONE

Detail No. 8 Pipe Thru Roofing System Over Conc. Slab

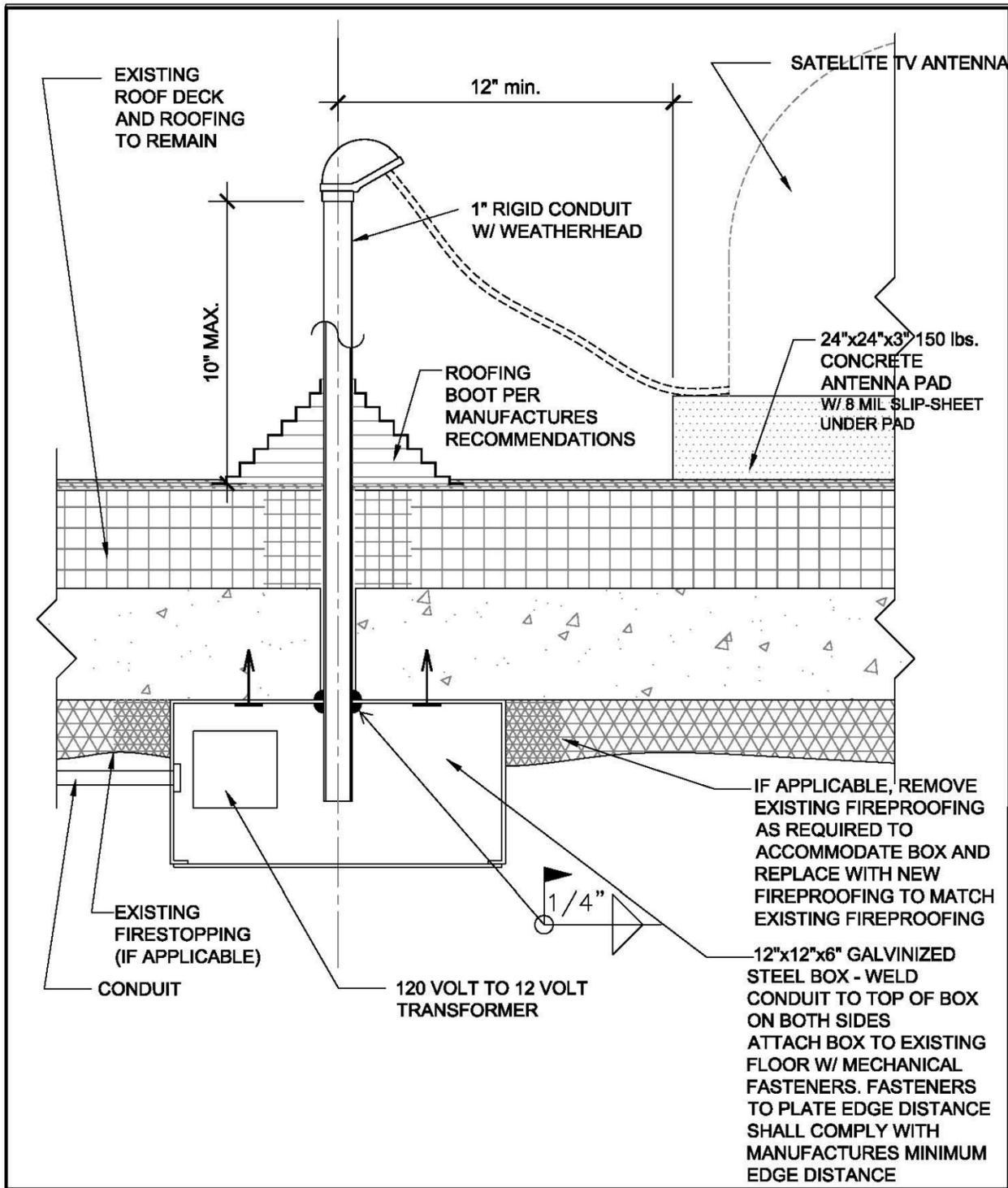


NOTES:

1. ANTENNA MAST, PIPE CONDUIT, PIPE CLAMPS AND STRUCTURAL SUPPORTING SYSTEM SHALL BE DESIGNED BY A GEORGIA STATE REGISTERED STRUCTURAL DESIGN PROFESSIONAL. SUBMIT DESIGN, DESIGN CALCULATIONS AND DETAILS, ON SIGNED AND SEALED DRAWINGS TO DOA PLANNING AND DEVELOPMENT FOR REVIEW.
2. THE SUPPORTING STRUCTURAL SHALL MINIMIZE THE VIBRATION IMPACT DAMAGE TO THE EXISTING ROOF ASSEMBLY.
3. PITCH POCKET IS UNACCEPTABLE AS WEATHER PROTECTION FOR ROOFING PENETRATION.
4. VERIFY EXISTING ROOF ASSEMBLY FIRE-RESISTANCE-RATING REQUIREMENT, PROVIDE AND INSTALL FIRESTOP SYSTEM AS NEEDED. SUBMIT PROPOSED FIRESTOP SYSTEM TO DOA PLANNING AND DEVELOPMENT FOR REVIEW.
5. ENSURE NEW CONSTRUCTION WILL NOT IMPACT EXISTING BUILDING WARRANTY OF ANY KIND.

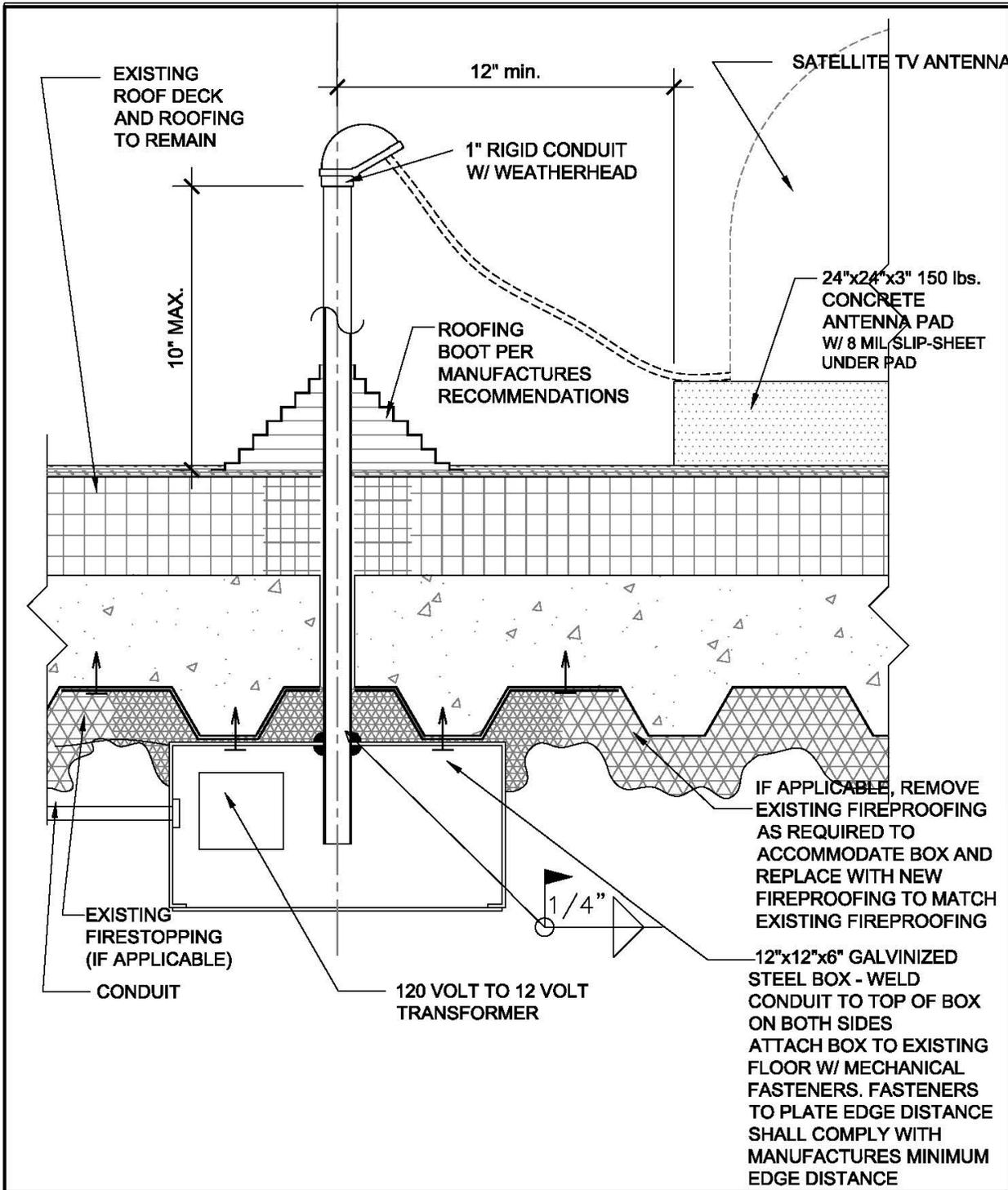
PROJECT: EXISTING ROOF PENETRATION DETAIL FOR ANTENNA MAST			DETAIL NO.
DRAWING NAME: PIPE THRU ROOFING SYSTEM OVER CONC. SLAB			8
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: XX DESIGNED BY: XX CHECKED BY: CHECK CONTRACT: NONE WBS: NONE SCALE: NTS DATE: 05/13/2019	REFERENCE DWG. NO.
No.			NONE
No.			
No.			
No.			

Detail No. 9 Satellite Antenna Conduit and Pad on Concrete Roof Slab



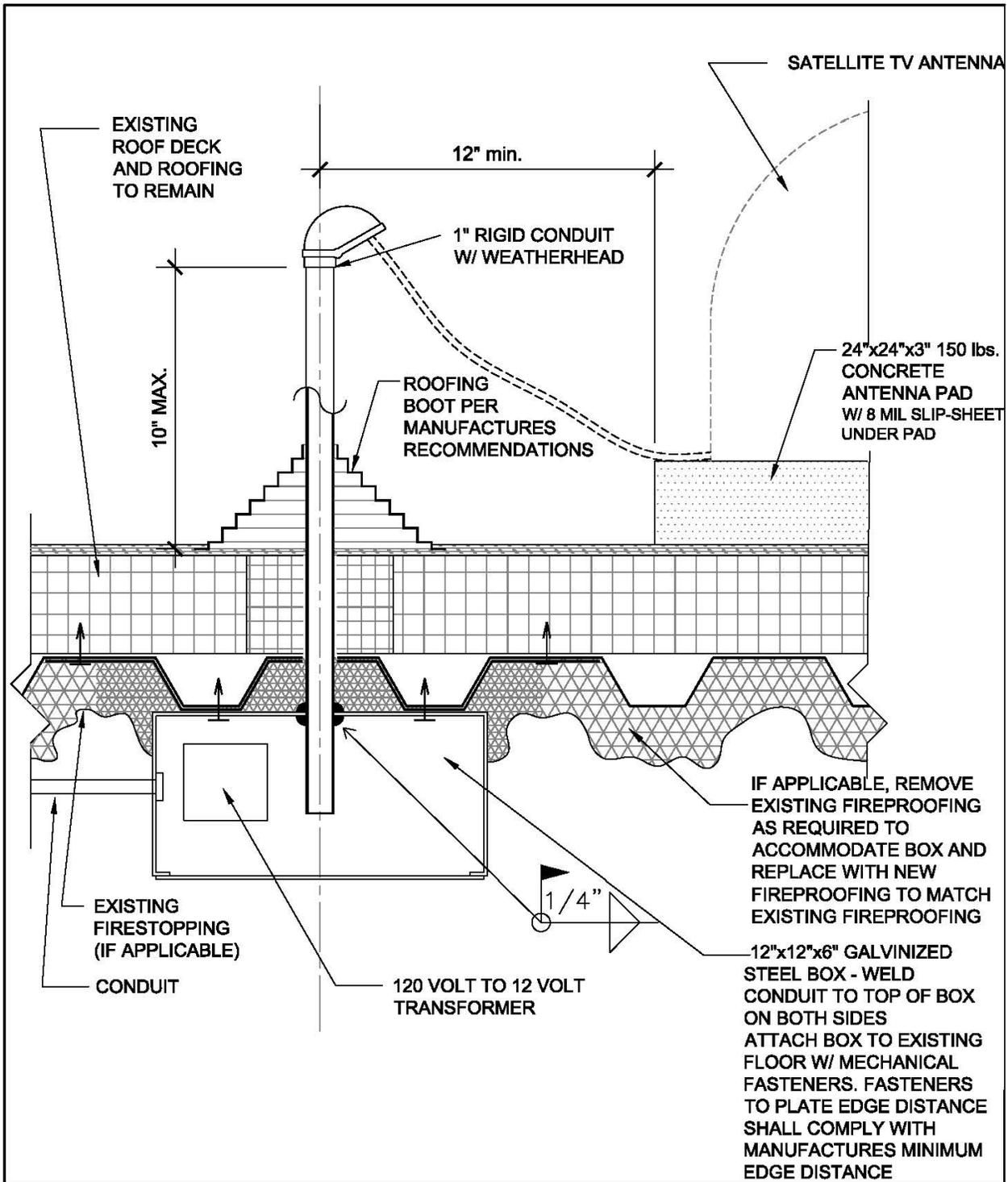
PROJECT: SATELLITE ANTENNA CONDUIT AND PAD ON CONCRETE ROOF SLAB			DETAIL NO.
DRAWING NAME:			9
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: XX DESIGNED BY: XX CHECKED BY: CHECK CONTRACT: NONE WBS: NONE SCALE: NTS DATE: 05/13/2019	REFERENCE DWG. NO.
No.			NONE
No.			

Detail No. 10 Satellite Antenna Conduit and Pad on Conc. on Metal Deck



PROJECT: SATELLITE ANTENNA CONDUIT AND PAD ON CONCRETE			DETAIL NO.
DRAWING NAME: ON METAL DECK			10
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: XX	REFERENCE DWG. NO.
No.		DESIGNED BY: XX	NONE
No.		CHECKED BY: CHECK	
No.		CONTRACT: NONE	
No.		WBS: NONE	
No.		SCALE: NTS	
		DATE: 05/13/2019	

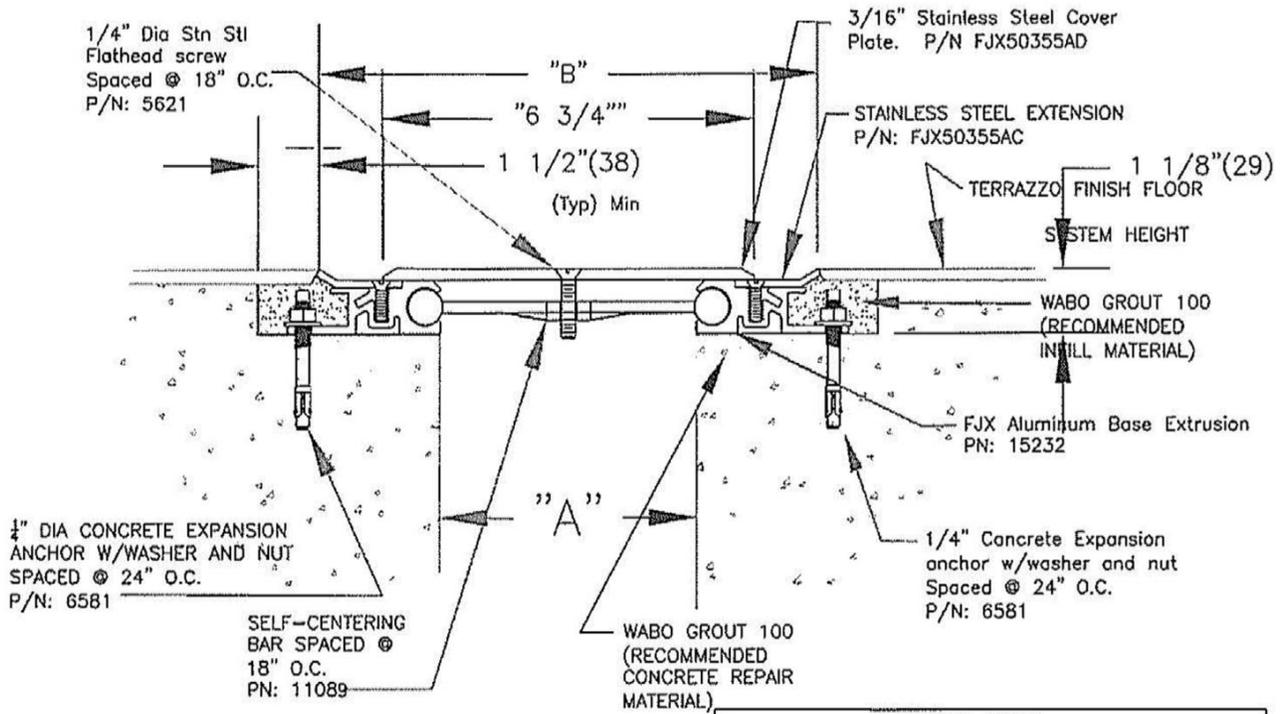
Detail No. 11 Satellite Antenna Conduit and Pad on Metal Deck



PROJECT: SATELLITE MAST AND PAD DETAILS			DETAIL NO.
DRAWING NAME: SATELLITE ANTENNA CONDUIT AND PAD ON METAL DECK			11
REVISIONS	DESCRIPTION OF REVISION	DRAWN BY: XX	REFERENCE DWG. NO.
No.		DESIGNED BY: XX	NONE
No.		CHECKED BY: CHECK	
No.		CONTRACT: NONE	
No.		WBS: NONE	
No.		SCALE: NTS	
		DATE: 05/13/2019	

Detail No. 12 Expansion Joint Detail

NOTE: EXPOSED SURFACES OF COVER PLATE AND EXTENSIONS PROVIDED WITH 200 GRIT FINISH.



DIMENSION CHART				
MIN.	"A"		"B" MID.	TOTAL MOVEMENT
	MID.	MAX		
1"	2"	3"	8 5/8"	2"

NOTE:
MID RANGE DIMENSIONS ARE AT MEAN TEMPERATURE
MIN. & MAX. ARE AFTER MOVEMENT

FLOOR TO FLOOR DETAIL

N.T.S EXPANSION JOINT MODEL FJS-200 MODIFIED
WATSON BOWMAN ACME CORP
716 691-75666

