

Surfside Palms Condominium Association, Inc.

Restoration Project

8888 Collins Avenue
Surfside FL, 33154

Myles J
Harris

Digitally signed
by Myles J
Harris
Date:
2024.11.11
08:17:55 -05'00'

GENERAL STRUCTURAL NOTES

SCOPE OF WORK

- DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS.
- REFER TO SPECIFICATION SECTION 011100 SUMMARY OF WORK.
- UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL COMPONENT AND/OR MEMBER WITHOUT PRIOR WRITTEN APPROVAL OF A STRUCTURAL ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IDENTIFY SUCH PENETRATIONS BASED ON INFORMATION PROVIDED AND TO SUBMIT DETAILED AND DIMENSIONED PLANS TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY WORK ASSOCIATED WITH ADDITIONAL REINFORCEMENT OF STRUCTURAL MEMBERS RESULTING FROM NEW PENETRATIONS.
- EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED IN THE SCOPE OF WORK. DISCREPANCIES, DIFFERENCES, AND/OR CONCERNS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL NOT PROCEED WITH CHANGES IN ANY PORTION OF WORK WITHOUT SUBMITTED A REQUEST FOR INFORMATION, A MATERIAL SUBSTITUTION, OR CHANGE ORDER WITHOUT EXPLICIT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
- EXISTING STRUCTURES SHALL BE PROTECTED MAINTAINED AND SUPPORTED DURING THE CONSTRUCTION WORK.

CONSTRUCTION SAFETY

- IT IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR FOR ENSURING SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR SATISFYING SAFETY REQUIREMENTS AND CONFORMANCE TO OSHA STANDARDS, LOCAL SAFETY CODES, COUNTY SAFETY CODES, STATE SAFETY CODES, AND NATIONAL SAFETY CODES.
- SITE VISITS BY AN ENGINEER ARE NOT IN RELATION TO CONSTRUCTION SAFETY AND THEREFORE, THE ENGINEER SHALL HAVE NO LIABILITY FOR UNSAFE OR HAZARDOUS CONDITIONS.

DESIGN LOADS

- DEAD LOADS:
 - TABLES C3-1: MINIMUM DESIGN LOADS; ASCE 7-22
- LIVE LOADS:
 - ROOF LEVEL = 20 PSF
 - ASSEMBLY AREAS AND CORRIDORS = 100 PSF
 - PARKING = 50 PSF
 - BALCONIES = 1.5x 40 = 60 PSF (AS PER FBC)
- WIND LOADS IN ACCORDANCE WITH SECTION 1609 (FBC) AND ASCE 7-22
 - WIND SPEED: V/UULT = 175 MPH, 3 SECOND GUST
V/ASD = 136 MPH, 3 SECOND GUST
 - INTERNAL PRESSURE COEFFICIENT = +/- 0.18
 - RISK CATEGORY = II
 - EXPOSURE CATEGORY = D
 - ENCLOSURE CLASSIFICATION = ENCLOSED

BUILDING CODES AND SPECIFICATIONS

- FBC 2023: FLORIDA BUILDING CODE 8TH EDITION (2023)
- ASCE 7-22: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

BUILDING AND PROJECT INFORMATION

- CLASSIFICATION OF WORK: REPAIRS (ALTERATION LEVEL 1)
- OCCUPANCY CLASSIFICATION: R-2

DELEGATED DESIGNS

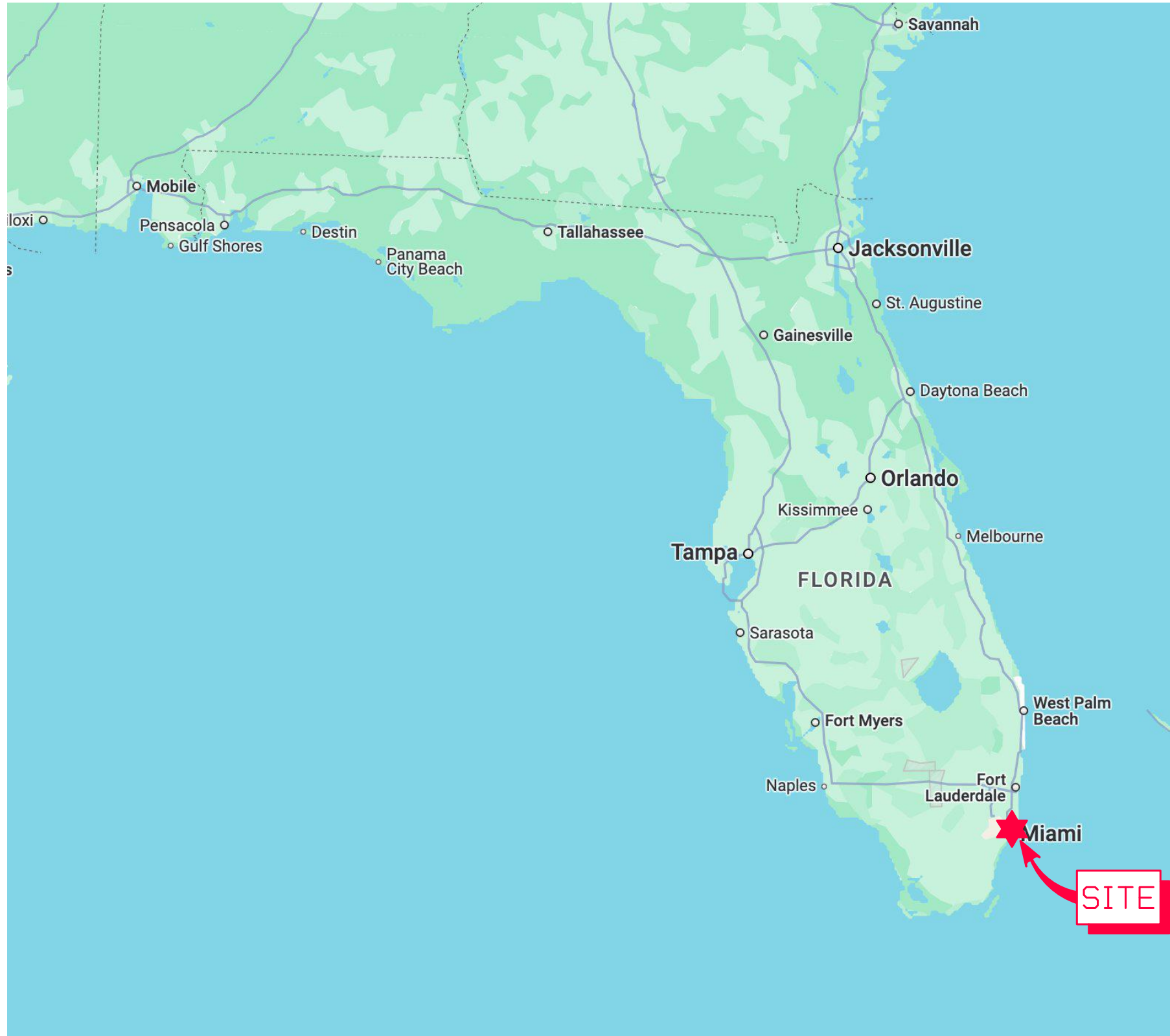
- SHORING DRAWINGS AND CALCULATIONS SHALL BE PROVIDED/SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS, THE QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. IN ALL INSTANCES, THE CONTRACT DOCUMENTS SHALL GOVERN OVER THE SHORING DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING.
- BALUSTRADE DRAWINGS AND CALCULATIONS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS, THE QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. IN ALL INSTANCES, THE CONTRACT DOCUMENTS SHALL GOVERN OVER THE BALUSTRADE DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING.

GENERAL REPAIR NOTES

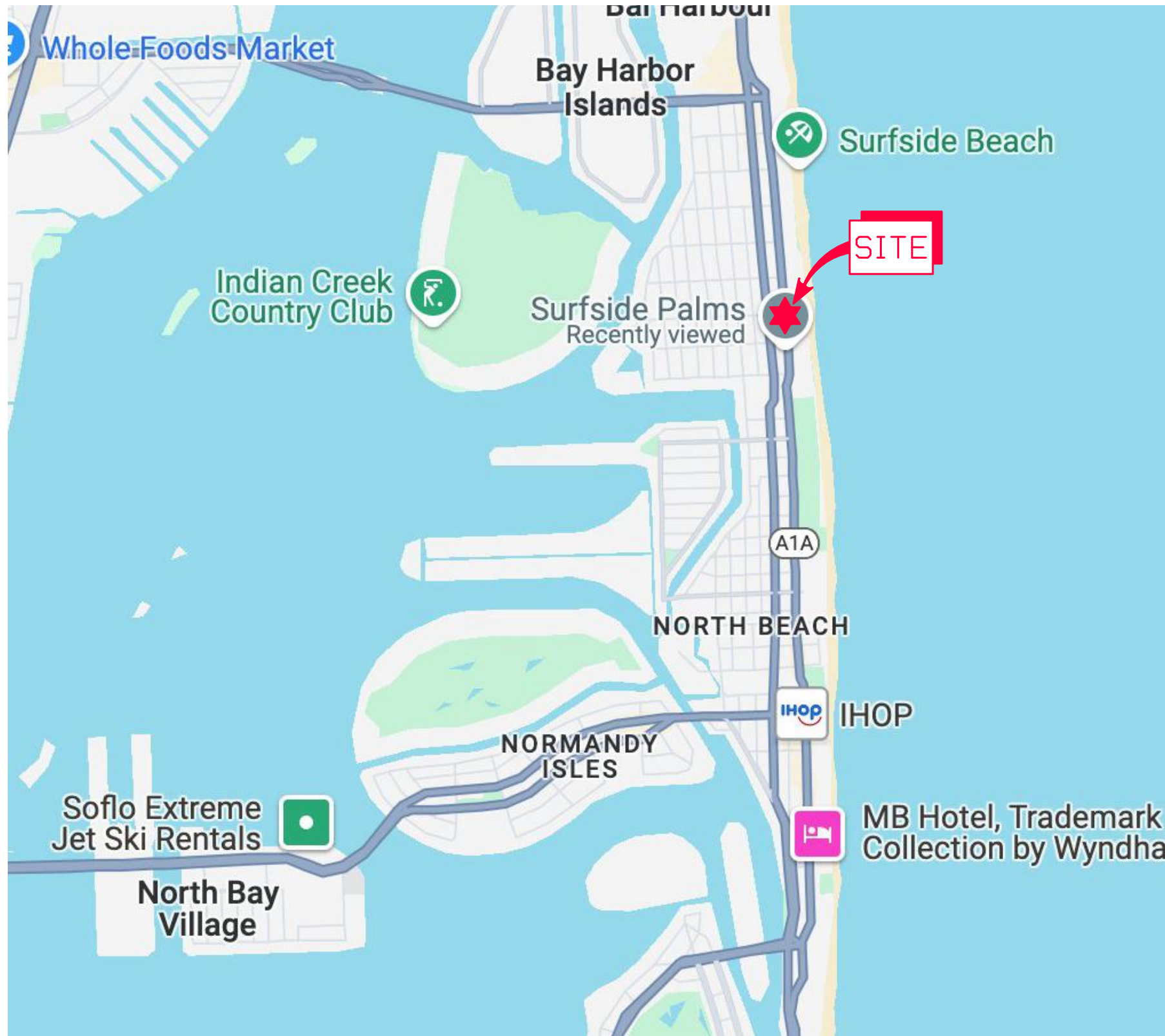
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- REMOVE AND DISPOSE OF BALCONY TOPPINGS, FINISHES, WATERPROOFINGS, AND ASSOCIATED MATERIALS IN THE AREAS OF WORK DOWN TO THE STRUCTURAL SLAB. ALLOW ENGINEER TO REVIEW.
- REMOVE AND DISPOSE OF EXISTING PLANTER TOPPINGS, FINISHES, WATERPROOFINGS AND ASSOCIATED MATERIALS IN THE AREA OF WORK DOWN TO THE STRUCTURAL SLAB AND STUCCO/CONCRETE VERTICAL SURFACES. ALLOW ENGINEER TO REVIEW.
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- 071416 - APPLY A COLD FLUID-APPLIED WATERPROOFING MEMBRANE TO PLANTER HORIZONTAL AND VERTICAL SURFACES. INCLUDE ADDITIONAL DETAILING AT ARCHITECTURAL CAP FINISHES AND RAILING LOCATIONS (IF APPLICABLE). A 20 YEAR MANUFACTURER'S WARRANTY IS REQUIRED.
- 071813 - APPLY A PEDESTRIAN TRAFFIC WATERPROOFING MEMBRANE TO BALCONY TOP SURFACES. INCLUDE ADDITIONAL DETAILING AT SLIDING GLASS DOOR, SHUTTER, AND RAILING LOCATIONS (IF APPLICABLE). UTILIZE THE ANY SYSTEM WITH A DECORATIVE OVERLAY. A 5 YEAR MANUFACTURER'S WARRANTY IS REQUIRED. THE DESIRED FINISH IS A KNOCKDOWN FINISH.
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- 079200 - PREPARE EXISTING HAIRLINE CRACK IN EXISTING CONCRETE SLABS AND THEN ROUTE AND SEAL WITH A JOINT SEALANT.
- 079200 - REMOVE, REPLACE, AND INSTALL JOINT SEALANTS TO ALL OF THE PERIMETER JOINTS TO THE CAST STONE MOLDINGS.
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- 099600 - INSTALL A HIGH-PERFORMANCE COATING TO THE INTERSTITIAL SPACE TOP SURFACES AND LIMITED VERTICAL SURFACES (TURN UP). INCLUDE ADDITIONAL DETAILS AT PLUMBING EQUIPMENT, DRAINS, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENTS, AND PENETRATION LOCATIONS (IF APPLICABLE).
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STRUCTURAL DRAWING INDEX

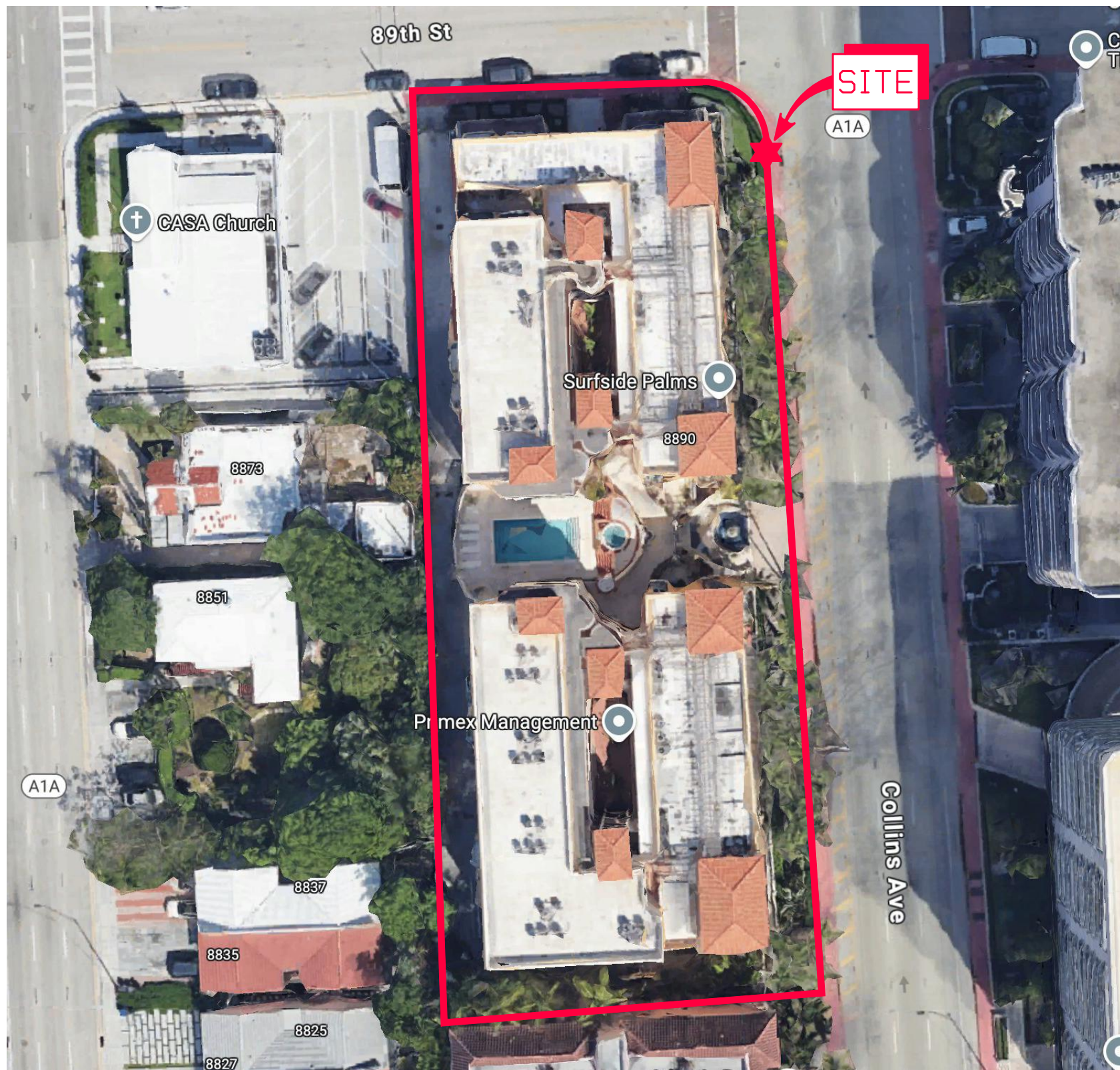
S-1	COVER SHEET AND GENERAL NOTES
S-2	GROUND FLOOR PLAN
S-3	FIRST FLOOR
S-4	SECOND FLOOR
S-5	THIRD FLOOR
S-6	FOURTH FLOOR
S-7	FIFTH FLOOR
S-8	ROOF
S-9	EAST ELEVATION
S-10	WEST ELEVATION
S-11	NORTH & SOUTH ELEVATIONS
S-12	NORTH & SOUTH COURTYARD ELEVATIONS
S-13	CONCRETE RESTORATION REPAIR DETAILS
S-14	PLAZA AND PLANTER WATERPROOFING DETAILS



STATE MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



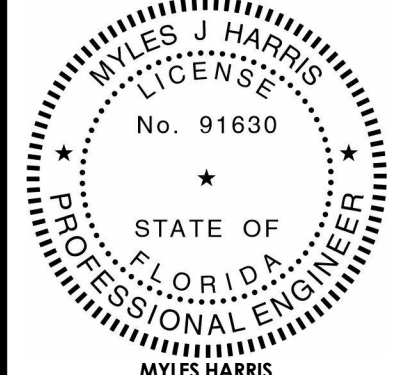
SITE MAP
NOT TO SCALE

REVISIONS

Surfside Palms Condominium
Restoration Project
8888 Collins Avenue
Surfside FL, 33154

Infinite Engineering
Infinite Engineering Group, LLC
Registration No. 37147
818 SE 4th Street #204
Fort Lauderdale, FL 33301
telephone : 904-654-8802

TO THE BEST OF THE ENGINEER'S
KNOWLEDGE, THE PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING CODES



This item has been digitally signed and
sealed by Myles Harris, P.E., on the date
apparent to the seal. Printed copies of
this document are not considered signed
and sealed and the signature must be
verified on any electronic copies.

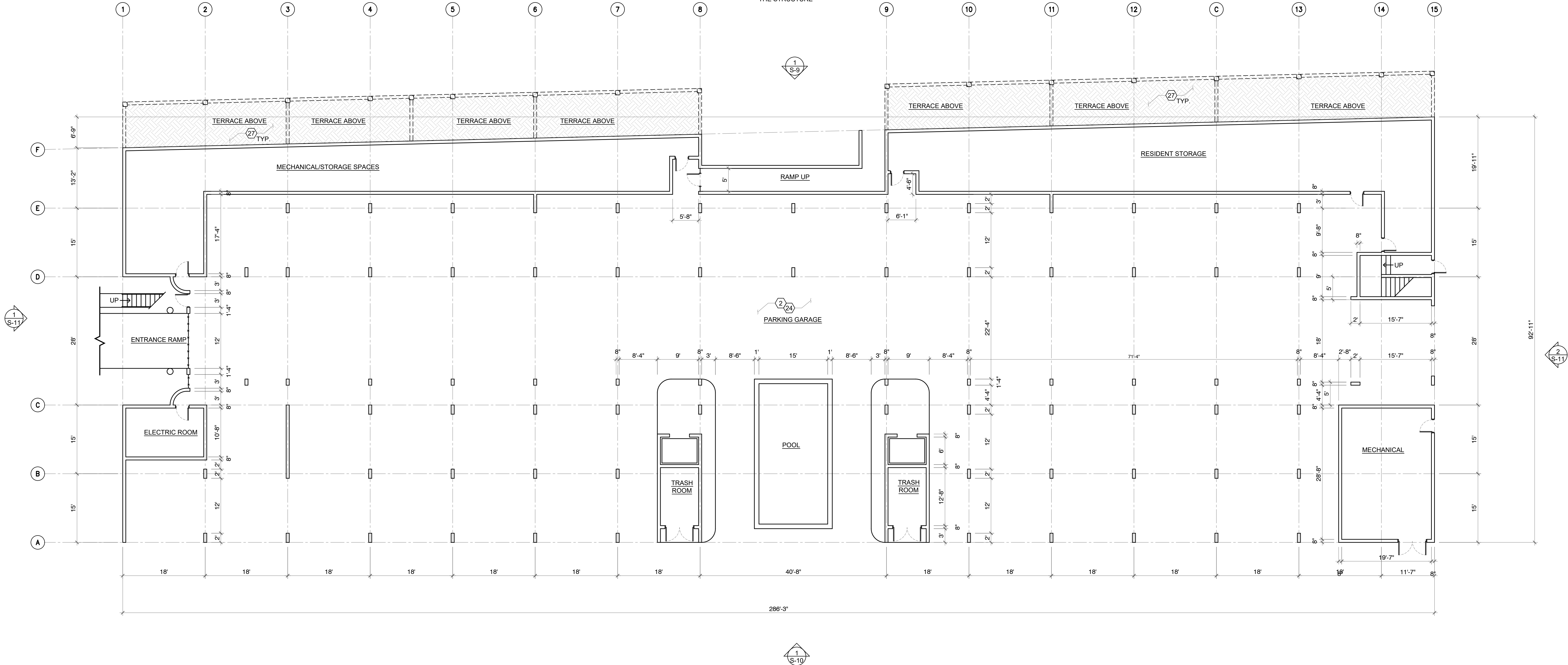
COVER SHEET AND
GENERAL NOTES
DATE: NOVEMBER 10, 2024
JOB NO: 24-50
DRAWN BY: SW
DESIGN BY: MH

SHEET
S-1

GENERAL REPAIR NOTES (X)

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LEGEND
FLOWABLE FILL AT AREAS OF UNDERMINING/EXCAVATION ALONG AND UNDERNEATH THE STRUCTURE



GROUND FLOOR PLAN
SCALE: 3/32" = 1'-0"

1
S-2

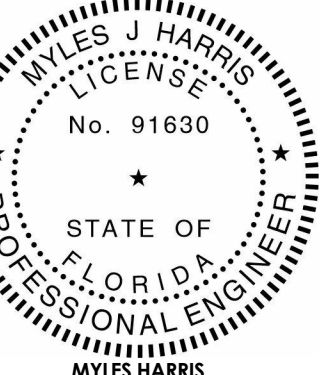
Myles J Harris
Digitally signed by Myles J Harris
Date: 2024.11.11 08:18:11 -05'00'

REVISIONS

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Surfside FL, 33154

Infinite Engineering
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Registration No. 37147
818 SE 4th Street #204
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telephone : 904-654-8802

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES



FL P.E. NO. 91630
This item has been digitally signed and sealed by Myles Harris, Esq. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

GROUND FLOOR PLAN
DATE: NOVEMBER 10, 2024
JOB NO: 24-50
DRAWN BY: SW ES
DESIGN BY: MH

SHEET

S-2

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26. INSTALL A MINIMUM 12" X 12" X 1/4" THICK CERAMIC TILE IN THINSET, THINSET AS PER NOA 23-0614.04 TABLE 2. THINSET TO BE SPECTRALOCK PRO PREMIUM GROUT BY LATITRETE. GROUT TO BE SPECTRALOCK PRO PREMIUM GROUT BY LATITRETE. GROUT JOINTS SHALL BE A MINIMUM OF 1/16" AND MUST COMPLY WITH THE TCNA HANDBOOK AND ANSI 108.02. THE TILE MATERIAL SHALL BE SLIP RESISTANT WHEN WET BY HAVING A DYNAMIC COEFFICIENT OF FRICTION OF AT LEAST 0.4. THE MATERIAL TO BE SUPPLIED BY THE OWNER.
27. POOR/APPLY FLOABLE FILL IN AREAS OF UNDERMINING/EXCAVATION ALONG AND UNDERNEATH THE STRUCTURE. INCLUDE BASIC FORMING TO CONTROL OVERFLOW.
28. INSTALLATION OF NECESSARY SHORING FOR REPAIRS TO BALCONY CONCRETE SLABS, GARAGE CONCRETE BEAMS, GARAGE CONCRETE JOISTS, AND GARAGE CONCRETE COLUMNS. THIS INCLUDES ALL SHORING ACCESSORIES/MATERIALS SUCH AS PLYWOOD, WOOD, STRINGERS, FASTENERS, PLATES, ETC.
29. DEMOLISH AND/OR REMOVE, DISPOSE, AND REPLACE DAMAGED PRECAST BALUSTRADE. PROVIDE ONSITE MOCK UP OF BALUSTRADE INSTALLATION. COLOR AND TEXTURE TO BE APPROVED BY OWNER. INSTALLATION SHALL BE IN ACCORDANCE WITH SHOP DRAWINGS.

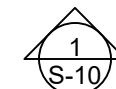
LEGEND

 DRAIN

 WATERPROOFING AT PLAZA AND POOL DECK

 WATERPROOFING AT PLANTERS

 WATERPROOFING AT UNIT BALCONIES/TERRACES



1
S-3

Infinite Engineering
Infinite Engineering Group, LLC
Registration No. 37147
818 SE 4th Street #204
Fort Lauderdale, FL 33301
telephone : 904-654-8802

A circular professional engineer seal for the State of Florida. The outer ring contains the text "MYLES J. HARRIS" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside this ring, the word "LICENSE" is at the top, "No. 91630" is in the center, and "STATE OF FLORIDA" is at the bottom. A small star is positioned between "LICENSE" and "STATE OF FLORIDA".

FL. P.E. NO. 91630

DATE: NOVEMBER 10, 2024

JOB NO: 24-50

6-3

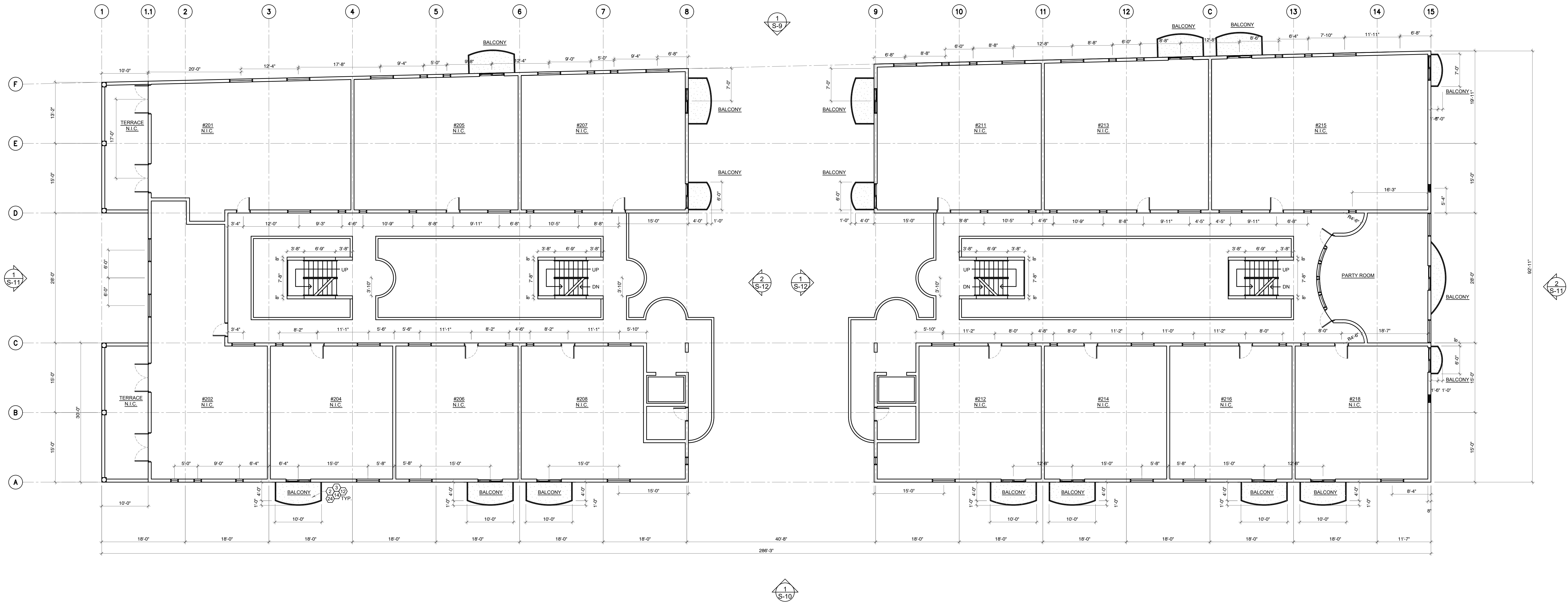


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- 079200 - PREPARE EXISTING HAIRLINE CRACK IN EXISTING CONCRETE SLABS AND THEN ROUTE AND SEAL WITH A JOINT SEALANT.
- 079200 - REMOVE, REPLACE, AND INSTALL JOINT SEALANTS TO ALL OF THE PERIMETER JOINTS TO THE CAST STONE MOLDINGS.
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LEGEND

- 1 WATERPROOFING AT UNIT
2 BALCONIES



SECOND FLOOR PLAN

SCALE: 3/32" = 1'-0"

1
S-4

Myles J Harris

Digitally signed by Myles J Harris

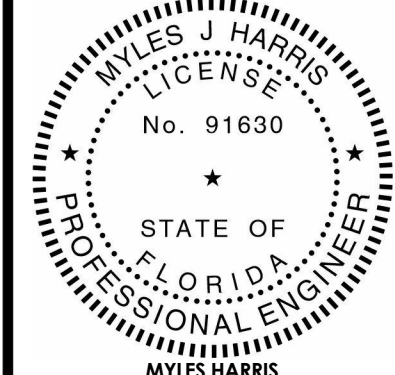
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REVISIONS

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8888 Collins Avenue
Surfside FL, 33154

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telephone : 904-654-8802

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES



FL P.E. NO. 91630
This item has been digitally signed and sealed by Myles Harris, Esq., on the date opposite to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SECOND FLOOR PLAN

DRAWN BY: SW
DESIGN BY: MH

DATE: NOVEMBER 10, 2024
JOB NO: 24-50

SHEET

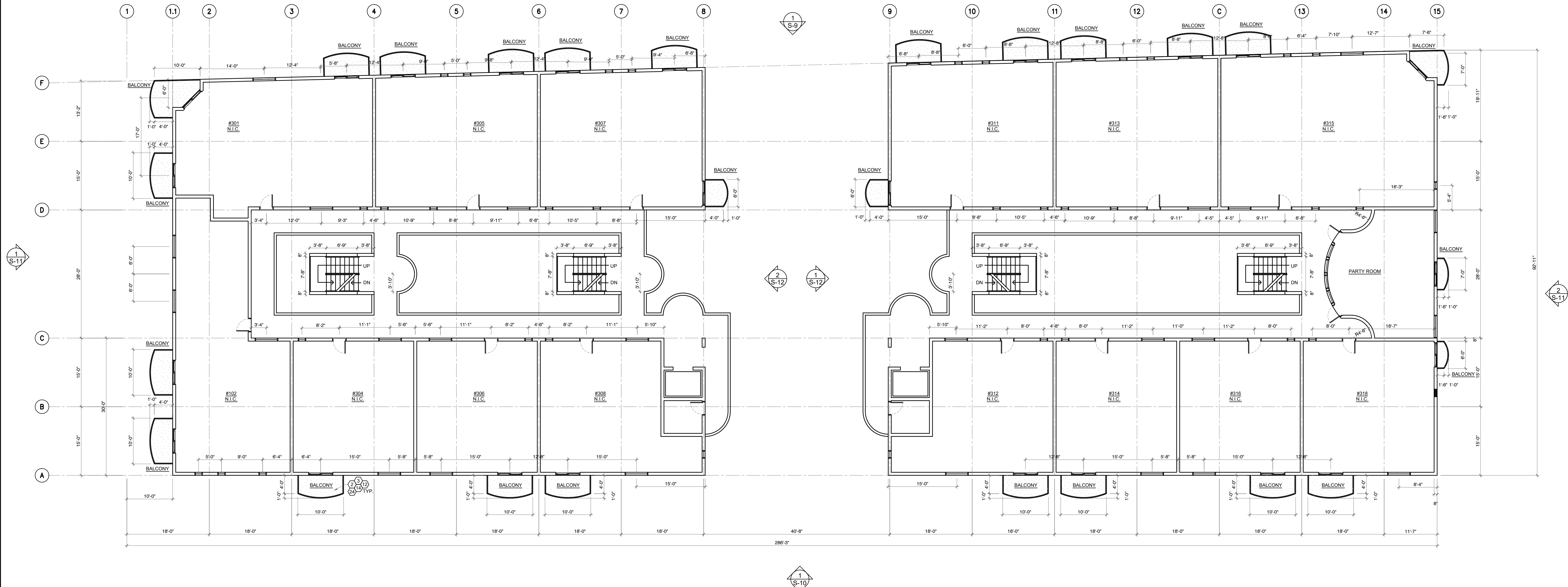
S-4

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LEGEND

WATERPROOFING AT UNIT BALCONIES



THIRD FLOOR PLAN

SCALE: 3/32" = 1'-0"

1

S-5



Myles J Harris

Digitally signed by Myles J Harris

Date: 2024.11.11 08:19:02 -05'00'

REVISIONS

Surfside Palms Condominium Restoration Project

8888 Collins Avenue
Surfside FL, 33154

Infinite Engineering

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TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES



FL P.E. NO. 91630

This item has been digitally signed and sealed by Myles Harris, Esq., on the date adjacent to the seal. Printed copies of this document are not considered sealed and sealed and the signature must be verified on any electronic copies.

THIRD FLOOR PLAN

DRAWN BY: SW
DESIGN BY: MH

DATE: NOVEMBER 10, 2024
JOB NO: 24-50

SHEET

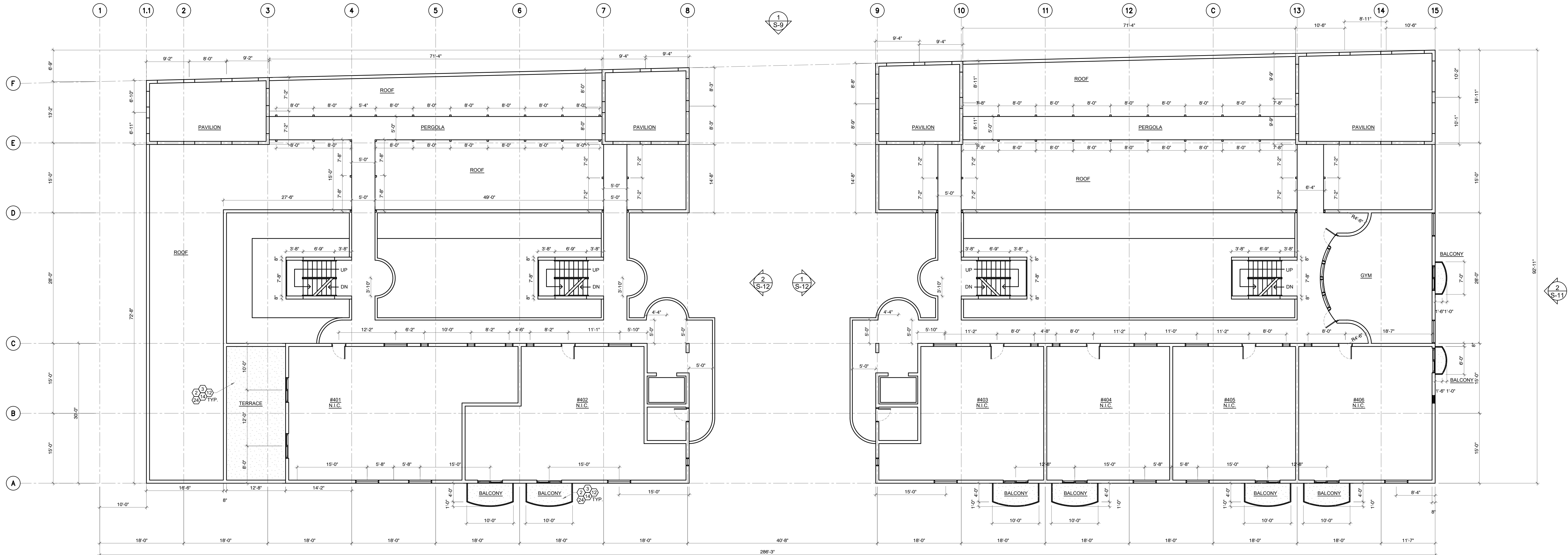
S-5

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LEGEND

WATERPROOFING AT UNIT
BALCONIES/TERRACES



FOURTH FLOOR
SCALE: 3/32"=1'-0"

1
S-6



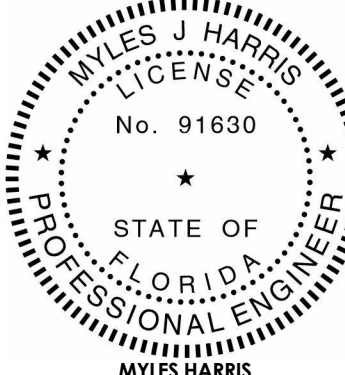
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FL P.E. NO. 91630
MYLES HARRIS
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FOURTH FLOOR

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DATE: NOVEMBER 10, 2024
JOB NO: 24-50

SHEET

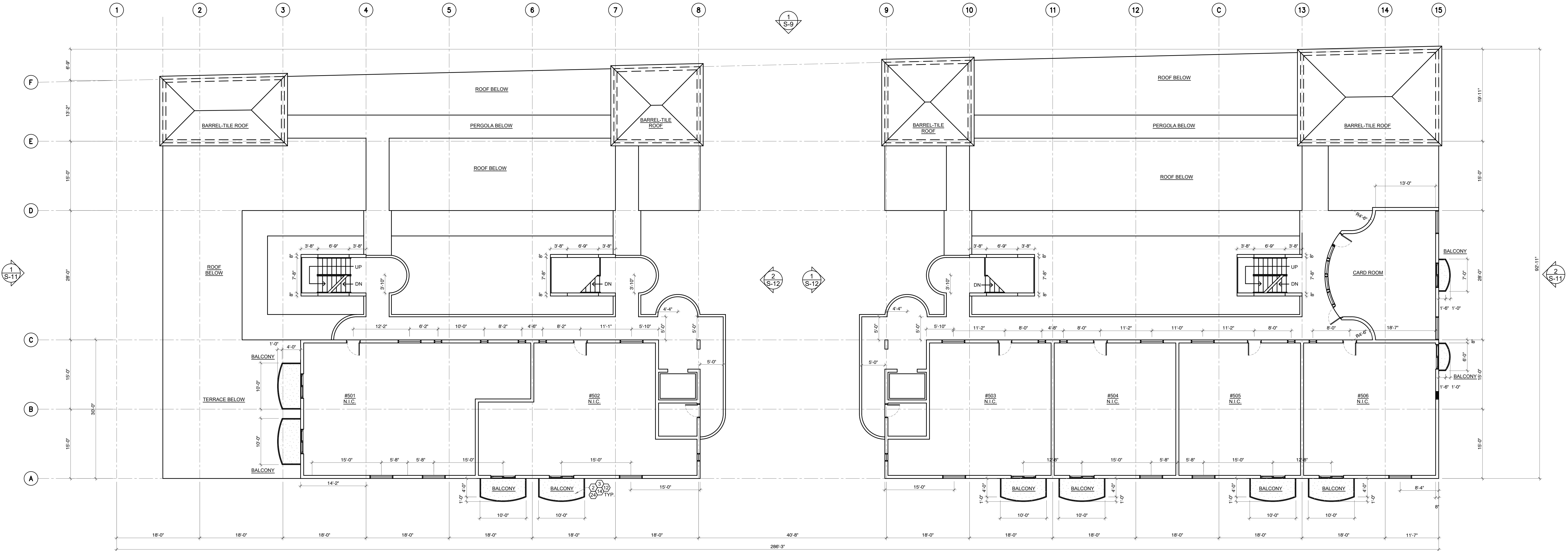
S-6

GENERAL REPAIR NOTES

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- REMOVE AND DISPOSE OF BALCONY TOPPING, FINISHES, WATERPROOFINGS, AND ASSOCIATED MATERIALS IN THE AREAS OF WORK DOWN TO THE STRUCTURAL SLAB. ALLOW ENGINEER TO REVIEW.
- REMOVE AND DISPOSE OF EXISTING PLANTER TOPPING, FINISHES, WATERPROOFINGS AND ASSOCIATED MATERIALS IN THE AREA OF WORK DOWN TO THE STRUCTURAL SLAB AND STUCCO/CONCRETE VERTICAL SURFACES. ALLOW ENGINEER TO REVIEW.
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- 030130 - INSTALL FLASH PATCHING, BEFORE WATERPROOFING OR COATING APPLICATIONS BEGIN, TO PROMOTE POSITIVE DRAINAGE TO DRAINS AND FREE EDGES. DO NOT FLASH PATCH TO A FEATHER EDGE.
- 071816 - APPLY A COLD FLUID-APPLIED WATERPROOFING MEMBRANE TO PLANTER HORIZONTAL AND VERTICAL SURFACES. INCLUDE ADDITIONAL DETAILING AT ARCHITECTURAL CAP FINISHES AND RAILING LOCATIONS (IF APPLICABLE). A 20 YEAR MANUFACTURER'S WARRANTY IS REQUIRED.
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LEGEND

WATERPROOFING AT UNIT
BALCONIES/TERRACES



FIFTH FLOOR

SCALE: 3/32"=1'-0"

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S-7



Myles J Harris

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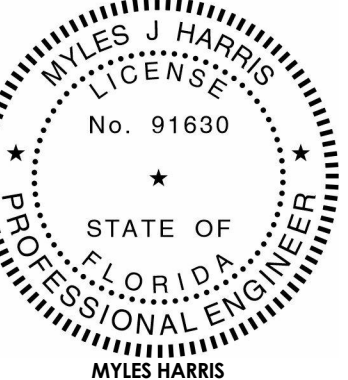
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REVISIONS

Surfside Palms Condominium
Restoration Project
8888 Collins Avenue
Surfside FL, 33154

Infinite Engineering
Infinite Engineering Group, LLC
Registration No. 37147
818 SE 4th Street #204
Fort Lauderdale, FL 33301
telephone : 904-654-8802

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES



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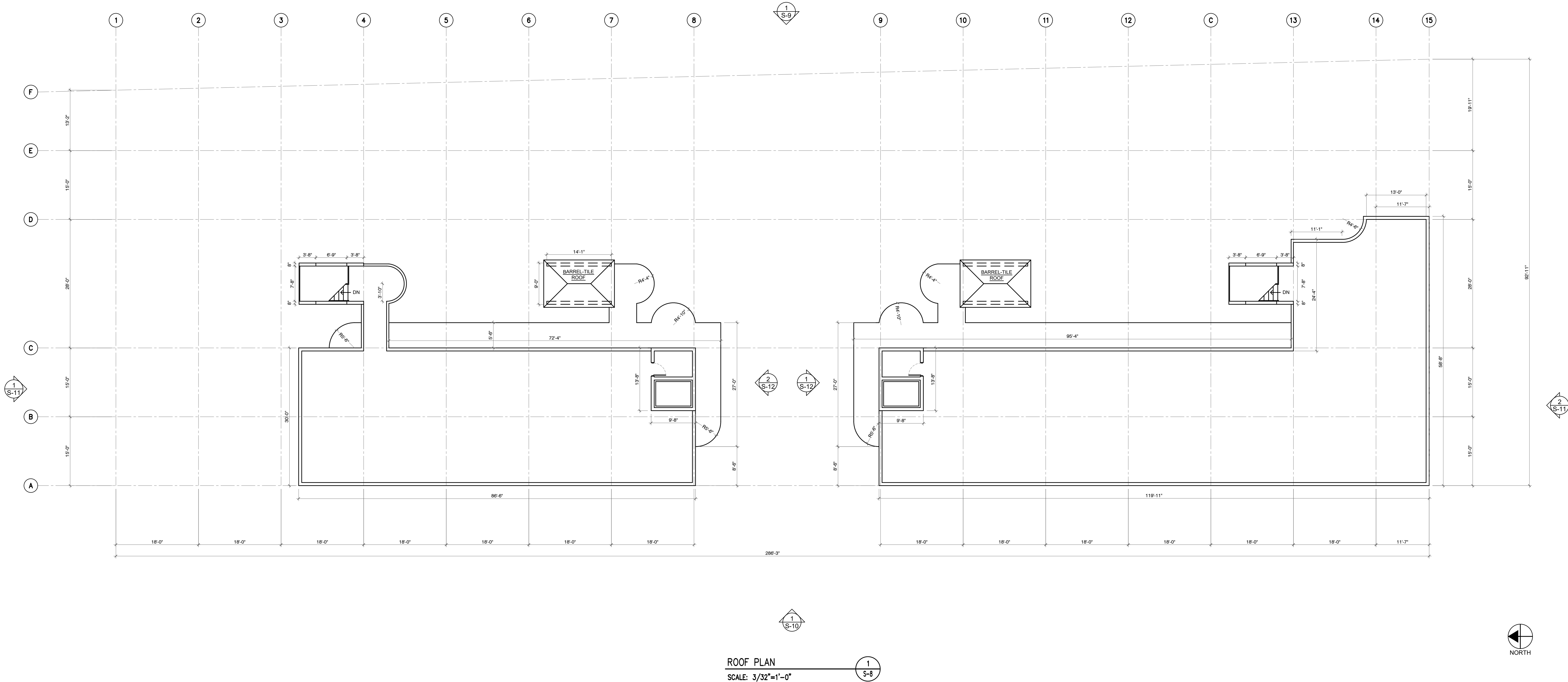
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ROOF PLAN
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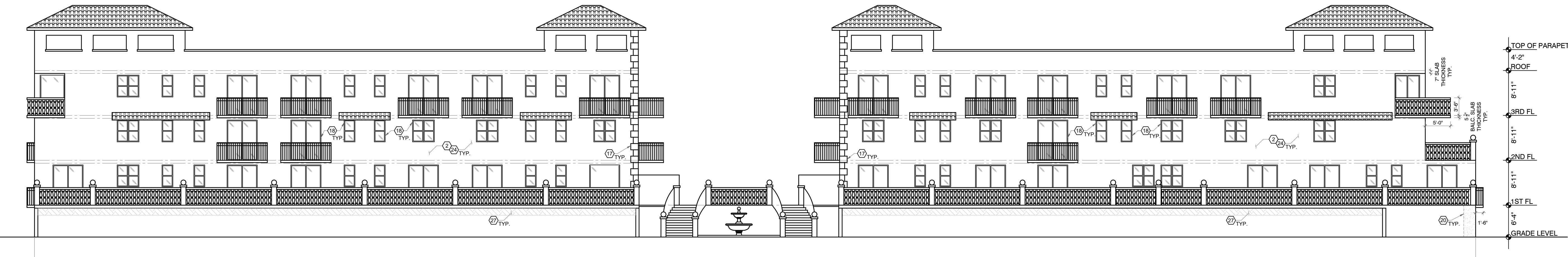
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REVISIONS	
Surfside Palms Condominium Restoration Project	
8888 Collins Avenue Surfside FL, 33154	
Infinite Engineering Group, LLC Registration No. 37147 818 SE 4th Street #204 Fort Lauderdale, FL 33301 telephone : 904-654-8802	
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Myles J. Harris No. 91630 STATE OF FLORIDA PROFESSIONAL ENGINEER FL P.E. NO. 91630 This item has been digitally signed and sealed by Myles Harris, Esq., on the date of payment to seal. Printed copies of this document are not considered sealed and sealed and the signature must be verified on any electronic copies.	
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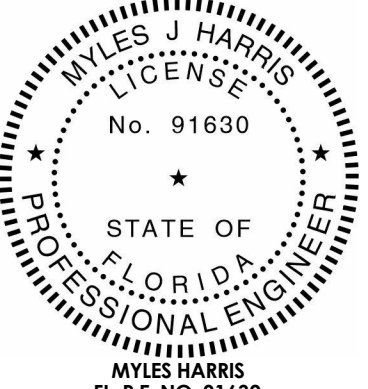
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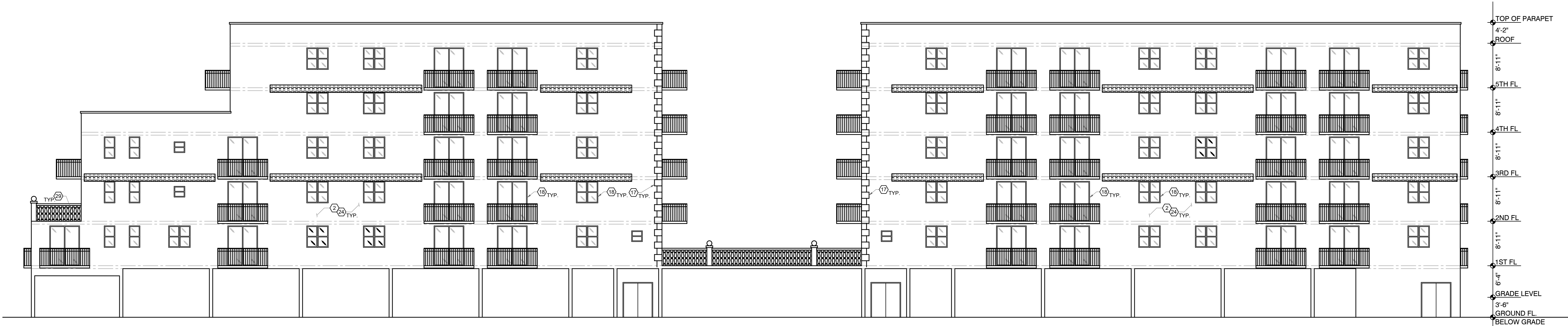
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- 071813 - APPLY A PEDESTRIAN TRAFFIC WATERPROOFING MEMBRANE TO BALCONY TOP SURFACES. INCLUDE ADDITIONAL DETAILING AT SLIDING GLASS DOOR, SHUTTER, AND RAILING LOCATIONS (IF APPLICABLE). UTILIZE THE ANY SYSTEM WITH A DECORATIVE OVERLAY. A 5 YEAR MANUFACTURER'S WARRANTY IS REQUIRED. THE DESIRED FINISH IS A KNOCKDOWN FINISH.
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- 079200 - REMOVE, REPLACE, AND INSTALL JOINT SEALANTS TO ALL OF THE SLIDING GLASS DOORS, WINDOWS, STOREFRONTS, AND BALCONY RAILING INTERFACES: STUCCO/CONCRETE TO METAL.
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- PRIME AND PAINT AS PER SHERWIN WILLIAMS SPECIFICATIONS (NEW PAINT JOB).
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- POUR/APPLY FLOWABLE FILL IN AREAS OF UNDERMINING/EXCAVATION ALONG AND UNDERNEATH THE STRUCTURE. INCLUDE BASIC FORMING TO CONTROL OVERFLOW.
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- DEMOLISH AND/OR REMOVE, DISPOSE, AND REPLACE DAMAGED PRECAST BALUSTRADE. PROVIDE ONSITE MOCK UP OF BALUSTRADE INSTALLATION. COLOR AND TEXTURE TO BE APPROVED BY OWNER. INSTALLATION SHALL BE IN ACCORDANCE WITH SHOP DRAWINGS.

Digitally signed by Myles J Harris Date: 2024.11.11 08:20:41 -05'00'



WEST ELEVATION
SCALE: 3/32"=1'-0"

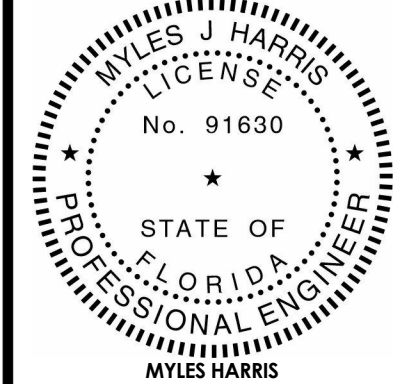
1
S-10

REVISIONS

Surfside Palms Condominium
Restoration Project
8888 Collins Avenue
Surfside FL, 33154

Infinite Engineering
Infinite Engineering Group, LLC
Registration No. 37147
818 SE 4th Street #204
Fort Lauderdale, FL 33301
telephone : 904-654-8802

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES



FL P.E. NO. 91630
This item has been digitally signed and sealed by Myles Harris, Esq. on the date adjacent to his seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

WEST ELEVATION

DATE: NOVEMBER 10, 2024
JOB NO: 24-50
DRAWN BY: SW ES
DESIGN BY: MH

SHEET

S-10

GENERAL REPAIR NOTES

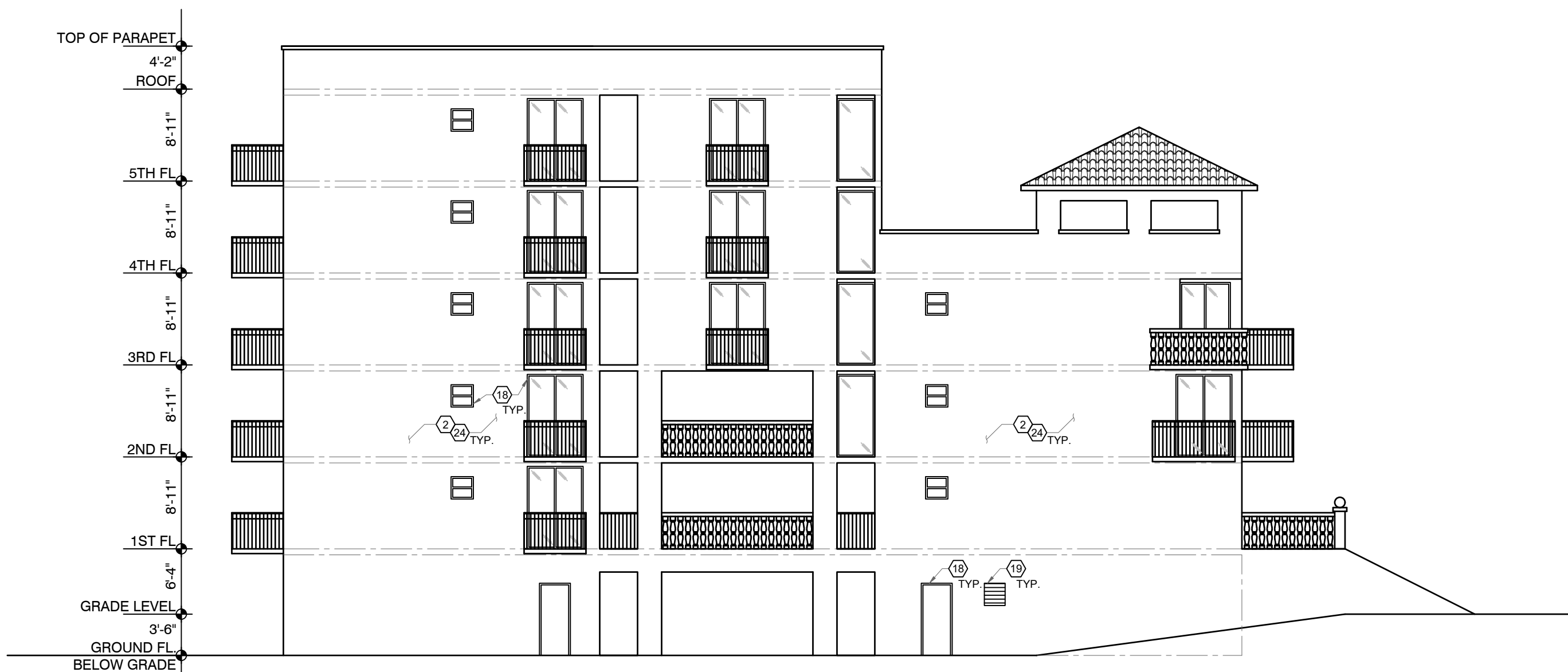
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NORTH ELEVATION

SCALE: 3/32"=1'-0"

1
S-11



SOUTH ELEVATION

SCALE: 3/32"=1'-0"

2
S-11

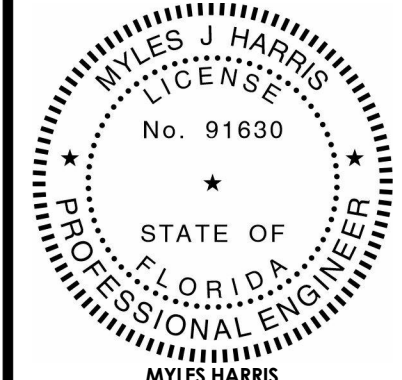
Myles J Harris
Digitally signed by Myles J Harris
Date: 2024.11.11 08:21:05 -05'00'

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FL P.E. NO. 91630
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NORTH & SOUTH
ELEVATIONS

DRAWN BY: SW
ES
DESIGN BY: MH

DATE: NOVEMBER 10, 2024
JOB NO: 24-50

SHEET

S-11

GENERAL REPAIR NOTES

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SOUTH COURTYARD ELEVATION

SCALE: 3/32"=1'-0"

1
S-12



NORTH COURTYARD ELEVATION

SCALE: 3/32"=1'-0"

2
S-12

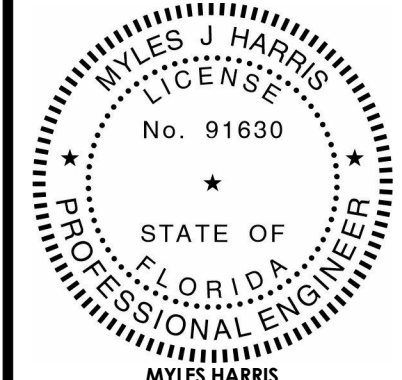
Myles J Harris
Digitally signed by Myles J Harris
Date: 2024.11.11 08:21:32 -05'00'

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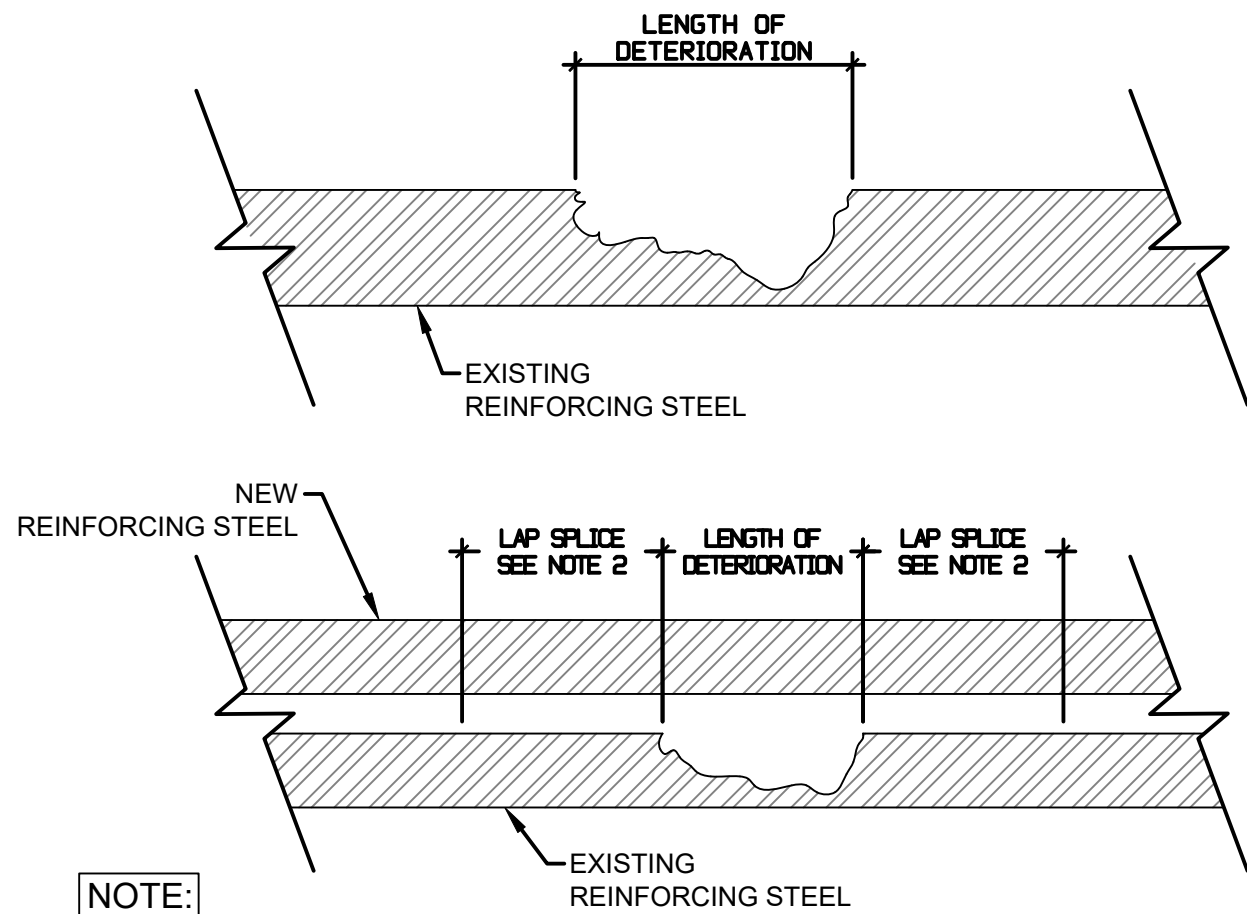
NORTH & SOUTH COURTYARD
ELEVATIONS

DRAWN BY: SW
ES
DESIGN BY: MH

DATE: NOVEMBER 10, 2024
JOB NO: 24-50

SHEET

S-12



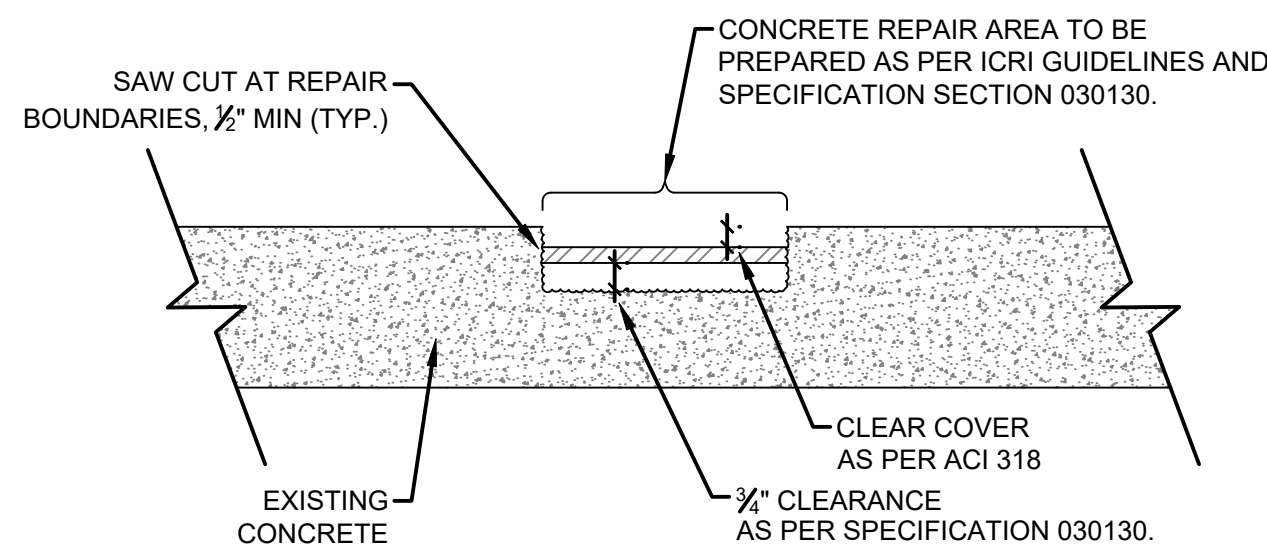
NOTE:

1. NEW CORROSION PROTECTED REINFORCING STEEL SHALL BE PLACED TO SUPPLEMENT EXISTING REINFORCING STEEL IF THE REINFORCING STEEL HAS LOST MORE THAN 25% OF ITS CROSS SECTION.
2. NEW REINFORCING STEEL SHALL EXTEND, IN EACH DIRECTION FROM WHERE THE SECTION LOSS ENDS, AS A LAP SPLICE AS REQUIRED PER ACI 318.
3. EXTEND THE LIMITS OF THE CONCRETE REPAIR AREA TO MEET THE REQUIRED LAP SPLICE LENGTHS.
4. ALLOW ENGINEER TO REVIEW.

DETERIORATED REINFORCING STEEL REPAIR

1
S-13

N.T.S



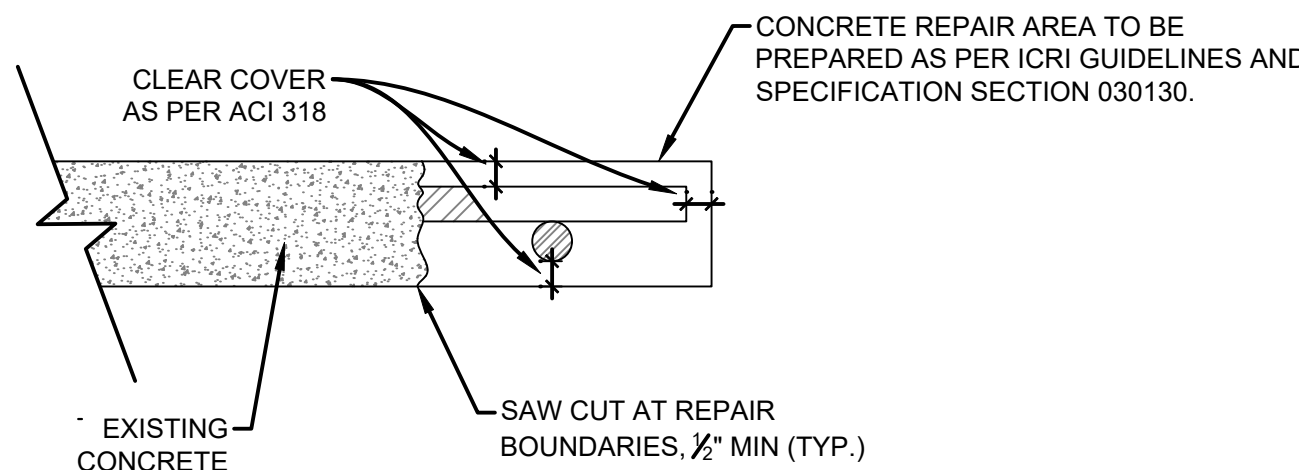
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 5. PERFORM SURFACE PREPARATION ON REINFORCING STEEL AND COAT EXPOSED REINFORCING STEEL WITH EPOXY RESIN REINFORCEMENT CORROSION PROTECTION.
 6. ALLOW ENGINEER TO REVIEW BEFORE CONCRETE PLACEMENT/APPLICATIONS.
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- NOTE: FINISHES NOT SHOWN

PARTIAL DEPTH – HORIZONTAL CONCRETE REPAIR

4
S-13

N.T.S



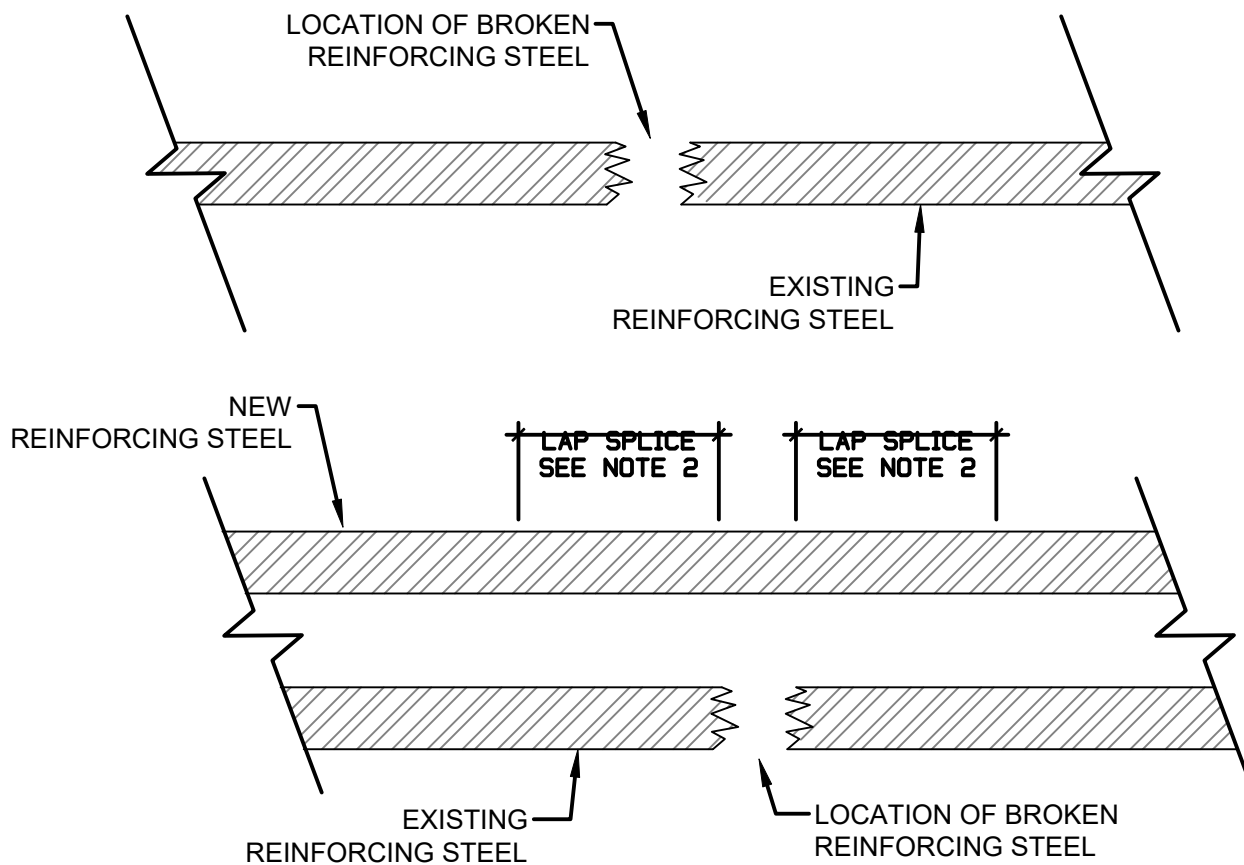
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- NOTE: FINISHES NOT SHOWN

SLAB EDGE CONCRETE REPAIR

7
S-13

N.T.S



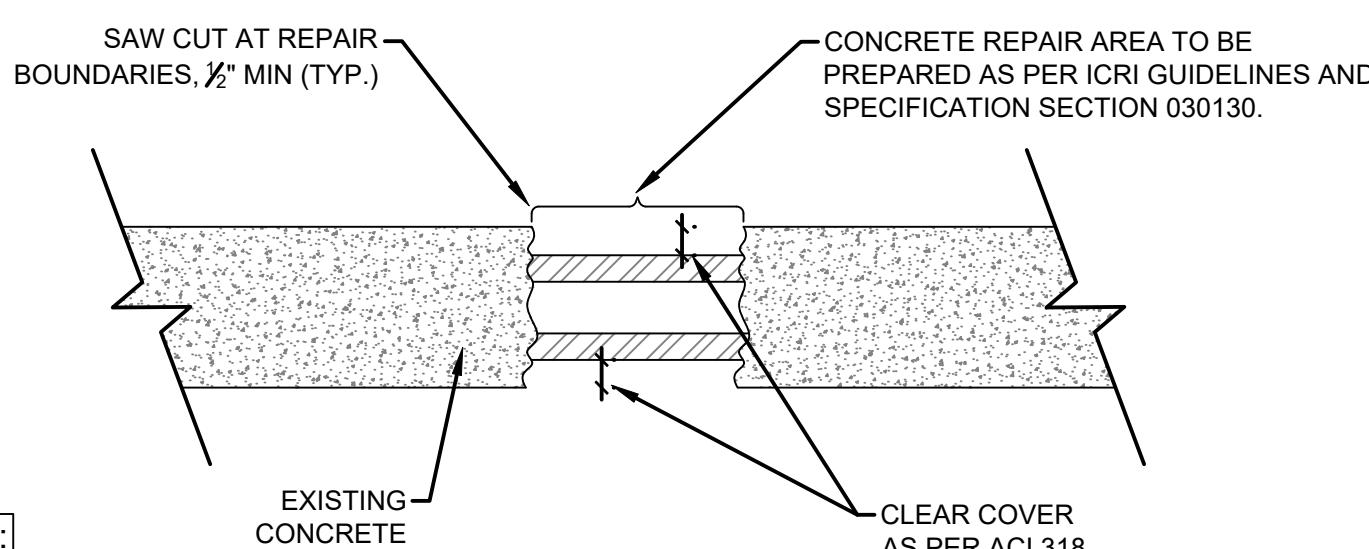
NOTE:

1. NEW CORROSION PROTECTED REINFORCING STEEL SHALL BE PLACED TO SUPPLEMENT EXISTING REINFORCING STEEL IF THE REINFORCING STEEL IS BROKEN.
2. NEW REINFORCING STEEL SHALL EXTEND, IN EACH DIRECTION FROM THE LOCATION OF BROKEN REINFORCING STEEL, AS A LAP SPLICE AS REQUIRED PER ACI 318.
3. EXTEND THE LIMITS OF THE CONCRETE REPAIR AREA TO MEET THE REQUIRED LAP SPLICE LENGTHS.
4. ALLOW ENGINEER TO REVIEW.

BROKEN REINFORCING STEEL REPAIR

2
S-13

N.T.S



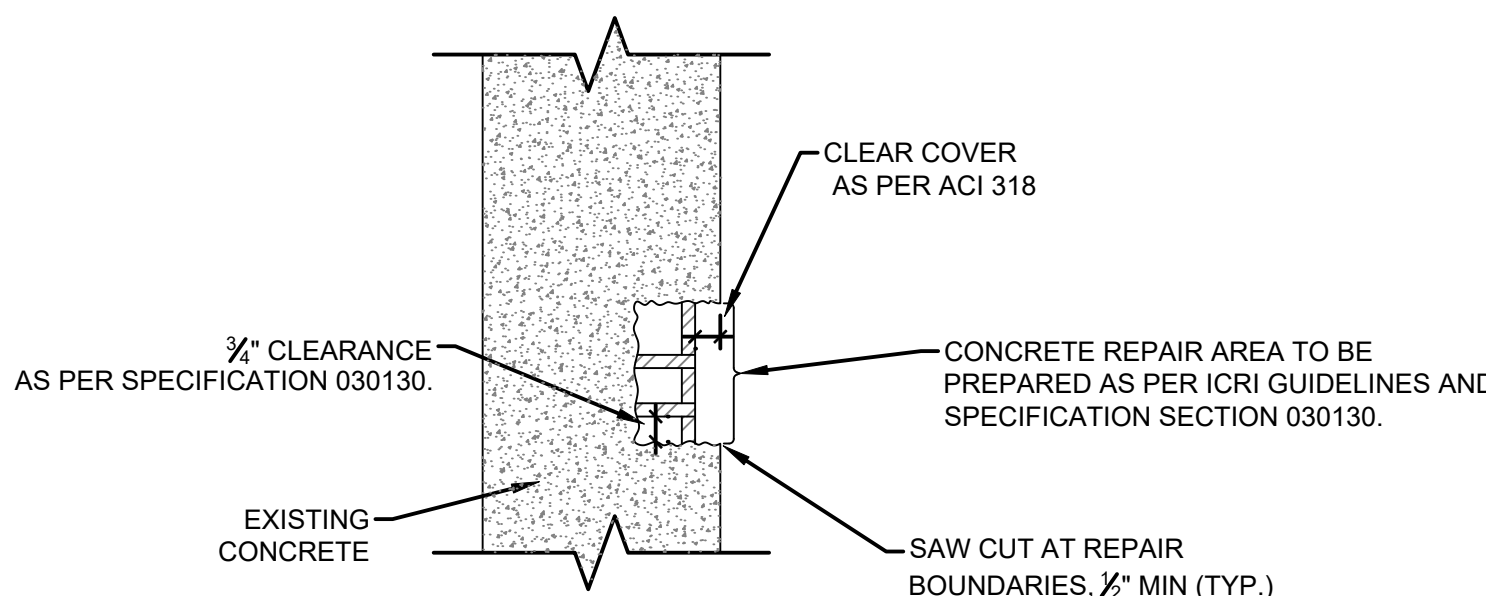
NOTE:

1. REFER TO SPECIFICATION SECTIONS 011100 AND 030130.
 2. SAW CUT ALL REPAIR AREA BOUNDARIES. REPAIR AREAS SHALL BE AS SQUARE AND RECTANGULAR AS POSSIBLE.
 3. DELAMINATED, SPALLED, AND/OR UNSOUND CONCRETE SHALL BE REMOVED UTILIZING A 15 LB CHIPPING HAMMER TO SOUND CONCRETE, DEPTH OF CONCRETE REPAIR TO BE UNIFORM.
 4. IF CORROSION IS PRESENT ON REINFORCING STEEL, ADDITIONAL CONCRETE SHALL BE REMOVED ALONG THE REINFORCEMENT UNTIL CLEAN REINFORCEMENT IS FOUND.
 5. PERFORM SURFACE PREPARATION ON REINFORCING STEEL AND COAT EXPOSED REINFORCING STEEL WITH EPOXY RESIN REINFORCEMENT CORROSION PROTECTION.
 6. ALLOW ENGINEER TO REVIEW BEFORE CONCRETE PLACEMENT/APPLICATIONS.
 7. UTILIZE CONCRETE REPAIR MORTAR AS PER MANUFACTURER'S GUIDELINES AND SPECIFICATION SECTION 030130.
- NOTE: FINISHES NOT SHOWN

FULL DEPTH – HORIZONTAL CONCRETE REPAIR

5
S-13

N.T.S



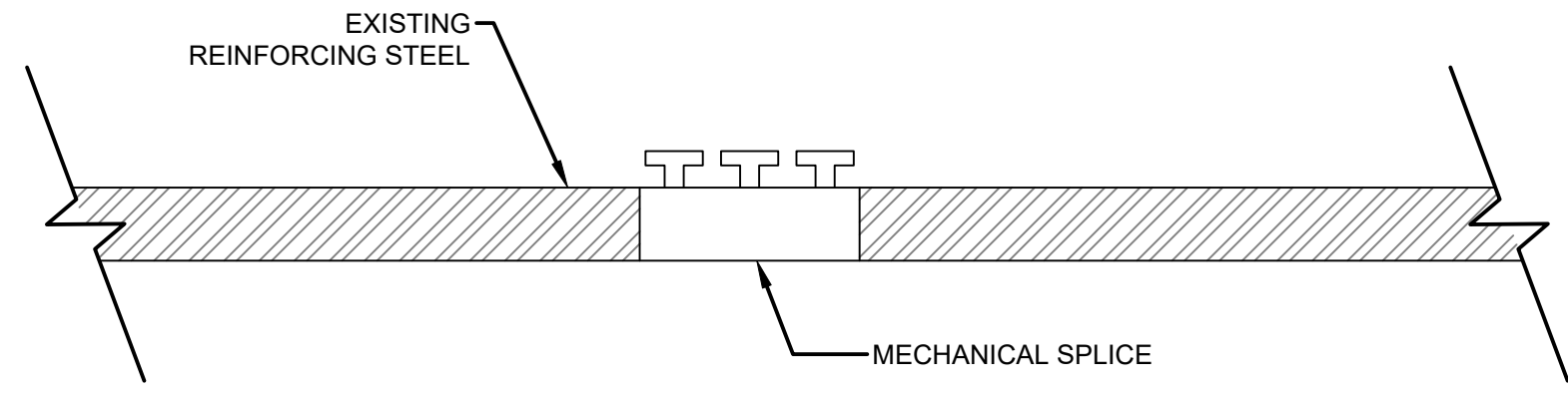
NOTE:

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 2. SAW CUT ALL REPAIR AREA BOUNDARIES. REPAIR AREAS SHALL BE AS SQUARE AND RECTANGULAR AS POSSIBLE.
 3. DELAMINATED, SPALLED, AND/OR UNSOUND CONCRETE SHALL BE REMOVED UTILIZING A 15 LB CHIPPING HAMMER TO SOUND CONCRETE, DEPTH OF CONCRETE REPAIR TO BE UNIFORM.
 4. IF CORROSION IS PRESENT ON REINFORCING STEEL, ADDITIONAL CONCRETE SHALL BE REMOVED ALONG THE REINFORCEMENT UNTIL CLEAN REINFORCEMENT IS FOUND.
 5. PERFORM SURFACE PREPARATION ON REINFORCING STEEL AND COAT EXPOSED REINFORCING STEEL WITH EPOXY RESIN REINFORCEMENT CORROSION PROTECTION.
 6. ALLOW ENGINEER TO REVIEW BEFORE CONCRETE PLACEMENT/APPLICATIONS.
 7. UTILIZE CONCRETE REPAIR MORTAR AS PER MANUFACTURER'S GUIDELINES AND SPECIFICATION SECTION 030130.
- NOTE: SHORING DESIGNS AND CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, ARE REQUIRED BEFORE DEMOLITION.
- NOTE: FINISHES NOT SHOWN

VERTICAL CONCRETE REPAIR

8
S-13

N.T.S



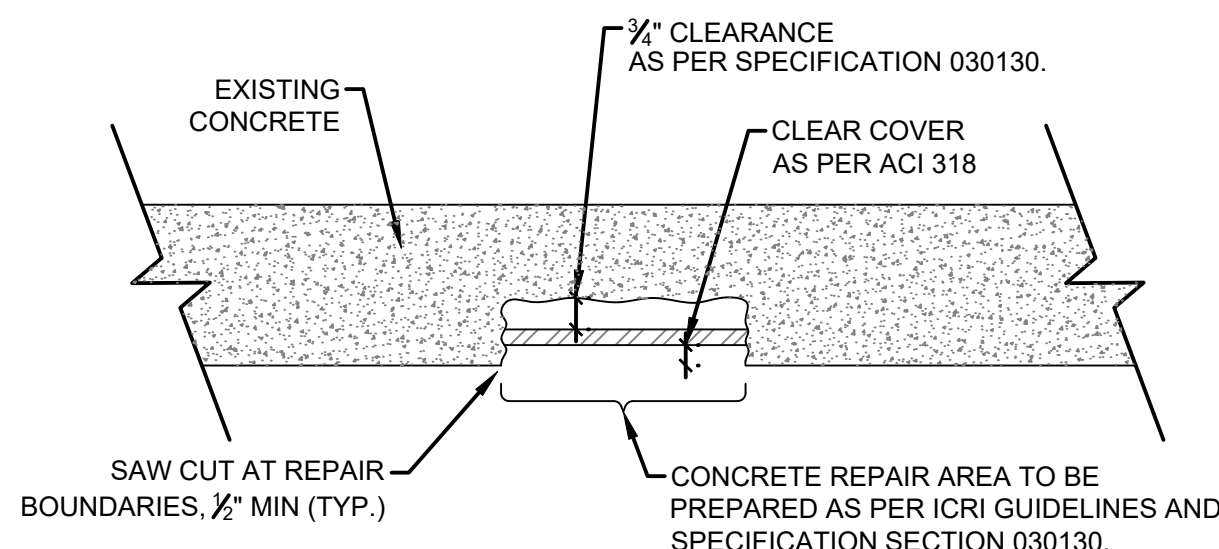
NOTE:

1. DETERIORATED AND/OR BROKEN REINFORCING STEEL SHALL BE REPAIRED BY A MECHANICAL SPLICE.
2. SUBMIT MECHANICAL SPLICE PRODUCT AND PRODUCT DATA FOR ENGINEER TO REVIEW BEFORE INSTALLATION.

REINFORCING STEEL REPAIR – MECHANICAL SPLICE

3
S-13

N.T.S



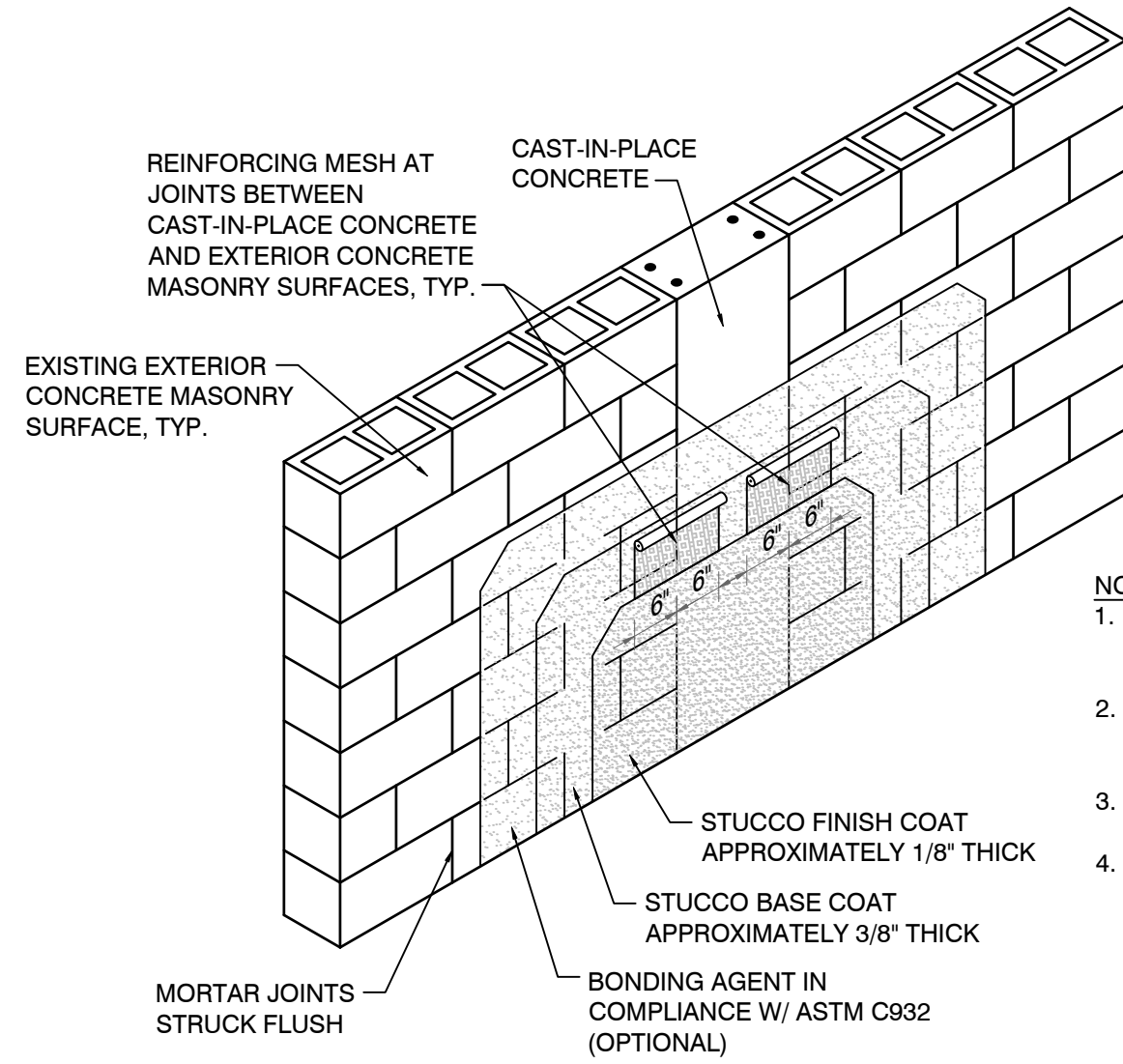
NOTE:

1. REFER TO SPECIFICATION SECTIONS 011100 AND 030130.
 2. SAW CUT ALL REPAIR AREA BOUNDARIES. REPAIR AREAS SHALL BE AS SQUARE AND RECTANGULAR AS POSSIBLE.
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 5. PERFORM SURFACE PREPARATION ON REINFORCING STEEL AND COAT EXPOSED REINFORCING STEEL WITH EPOXY RESIN REINFORCEMENT CORROSION PROTECTION.
 6. ALLOW ENGINEER TO REVIEW BEFORE CONCRETE PLACEMENT/APPLICATIONS.
 7. UTILIZE CONCRETE REPAIR MORTAR AS PER MANUFACTURER'S GUIDELINES AND SPECIFICATION SECTION 030130.
- NOTE: FINISHES NOT SHOWN

PARTIAL DEPTH – OVERHEAD CONCRETE REPAIR

6
S-13

N.T.S



NOTES:

1. LOCATE AREAS OF DELAMINATION USING HAMMER SOUNDING, GOLF CLUB SOUNDING, OR BY VISUAL EXAMINATION. MARK BOUNDARIES.
2. ALL STUCCO DEMOLITION LAYOUT GEOMETRY SHALL BE PERFORMED WITH RIGHT ANGLES AND VERTICALLY OR HORIZONTALLY STRAIGHT/PLUMB/LEVEL LIMITS.
3. STUCCO REPAIR FINISH SHALL BE FURNISHED TO MATCH PERIMETER/ORIGINAL STUCCO FINISH AND THICKNESS.
4. ALL WORK SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 092400.

TYPICAL STUCCO REPAIR DETAIL

9
S-13

N.T.S

Myles J Harris

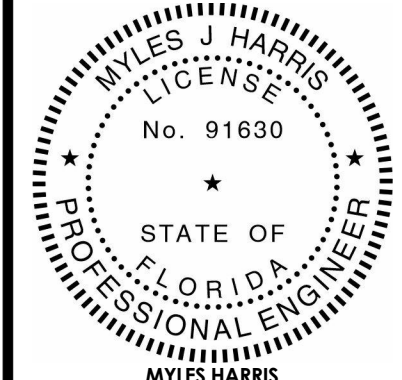
Digitally signed by Myles J Harris
Date: 2024.11.11 08:22:05 -05'00'

REVISIONS

Surfside Palms Condominium
Restoration Project
8888 Collins Avenue
Surfside FL, 33154

Infinite Engineering
Infinite Engineering Group, LLC
Registration No. 37147
818 SE 4th Street #204
Fort Lauderdale, FL 33301
telephone : 904-654-8802

TO THE BEST OF THE ENGINEER'S
KNOWLEDGE, THE PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING CODES



This item has been digitally signed and
sealed by Myles Harris, Esq. on the date
adjacent to the seal. Printed copies of
this document are not considered signed
and sealed and the signature must be
verified on any electronic copies.

CONCRETE RESTORATION
REPAIR DETAILS

DRAWN BY: SW
ES

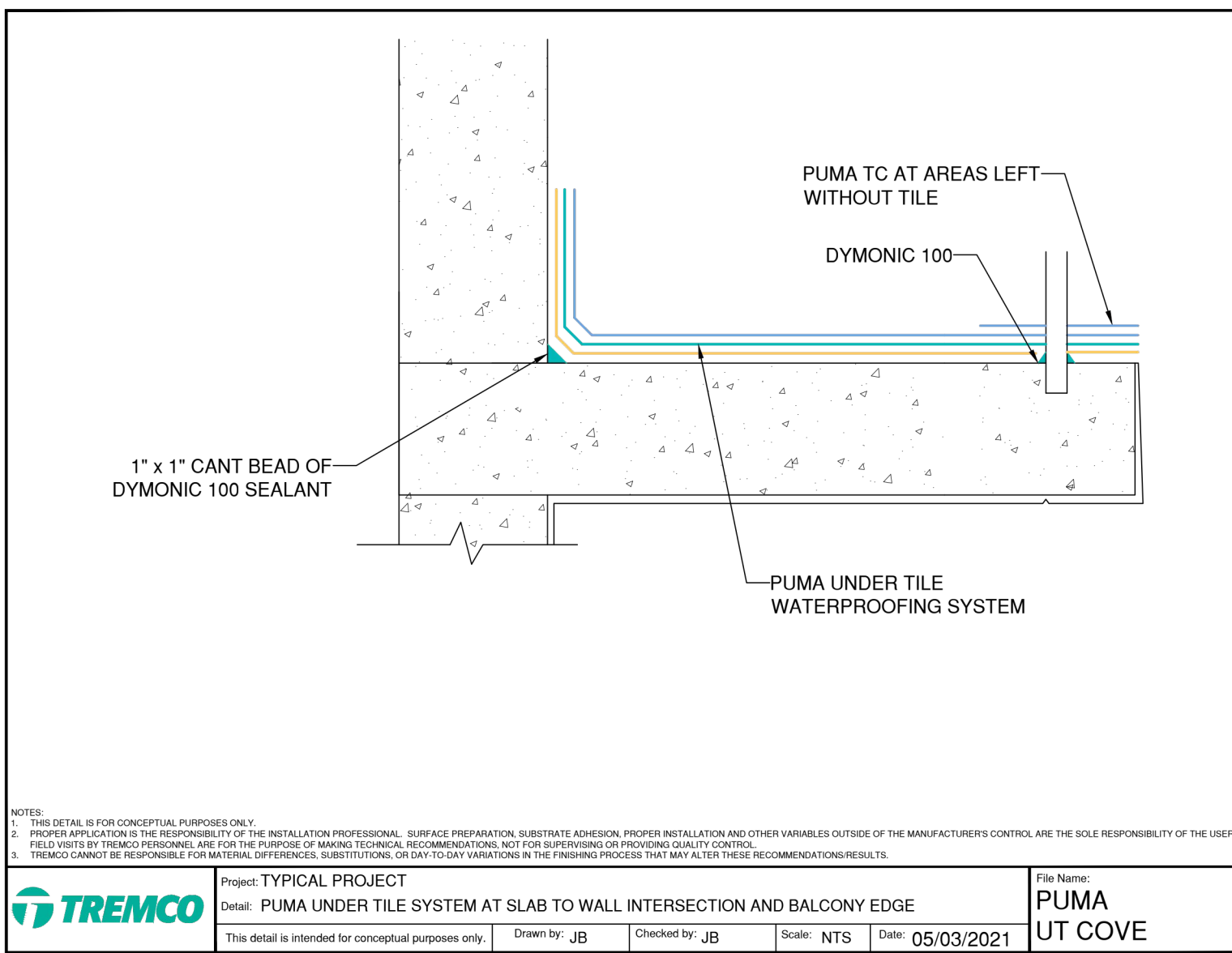
DESIGN BY: MH

DATE: NOVEMBER 10, 2024

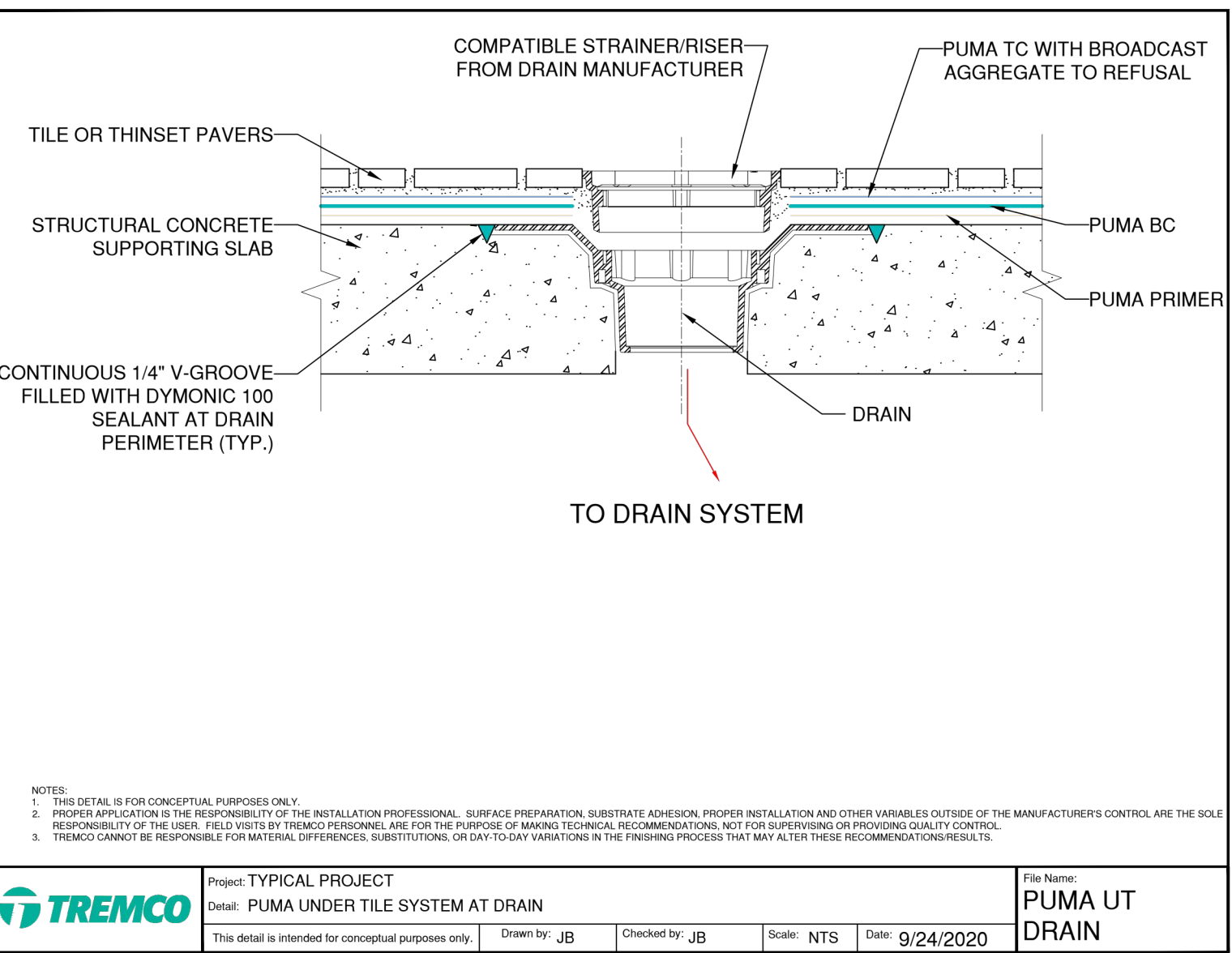
JOB NO: 24-50

SHEET

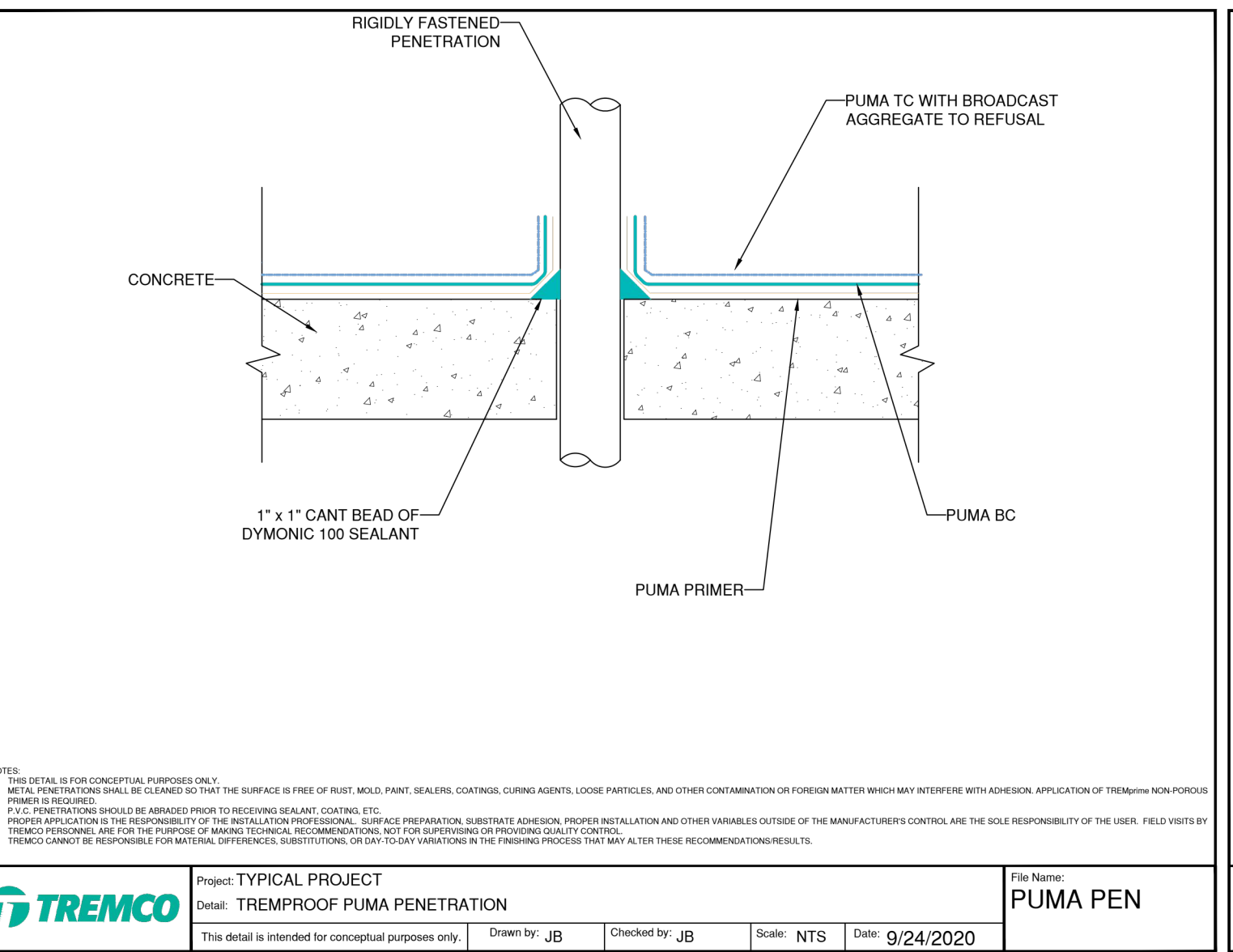
S-13



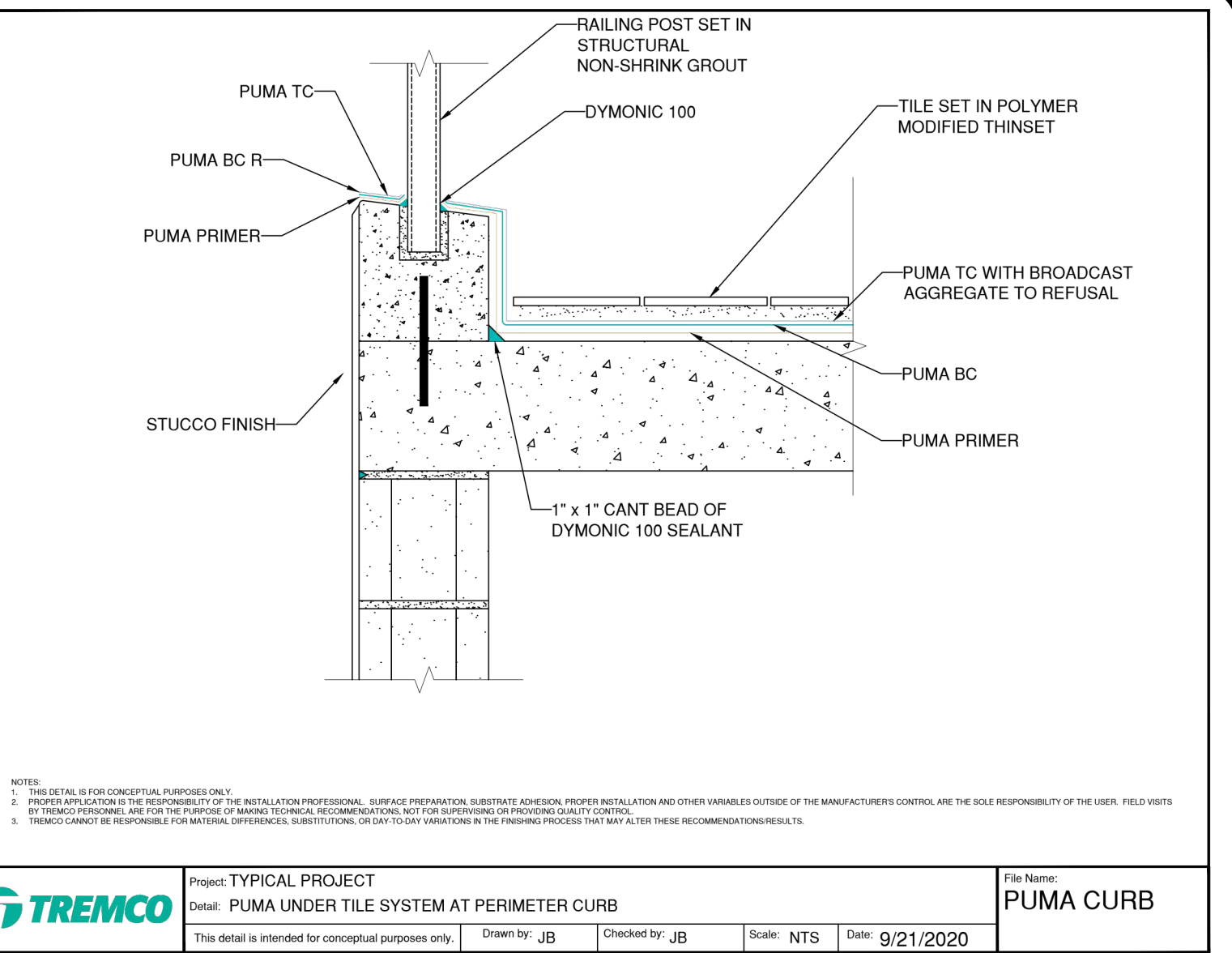
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Detail: PUMA UNDER TILE SYSTEM AT SLAB TO WALL INTERSECTION AND BALCONY EDGE	
This detail is intended for conceptual purposes only.	Drawn by: JB
Checked by: JB	Scale: NTS
Date: 05/03/2021	



Project: TYPICAL PROJECT	File Name: PUMA UT DRAIN
Detail: PUMA UNDER TILE SYSTEM AT DRAIN	
This detail is intended for conceptual purposes only.	Drawn by: JB
Checked by: JB	Scale: NTS
Date: 9/24/2020	



Project: TYPICAL PROJECT	File Name: PUMA PEN
Detail: TREMPROOF PUMA PENETRATION	
This detail is intended for conceptual purposes only.	Drawn by: JB
Checked by: JB	Scale: NTS
Date: 9/24/2020	



Project: TYPICAL PROJECT	File Name: PUMA CURB
Detail: PUMA UNDER TILE SYSTEM AT PERIMETER CURB	
This detail is intended for conceptual purposes only.	Drawn by: JB
Checked by: JB	Scale: NTS
Date: 9/21/2020	

PLAZA DECK WATERPROOFING DETAIL

N.T.S.

1

S-14

PLAZA DECK WATERPROOFING DETAIL

N.T.S.

2

S-14

PLAZA DECK WATERPROOFING DETAIL

N.T.S.

3

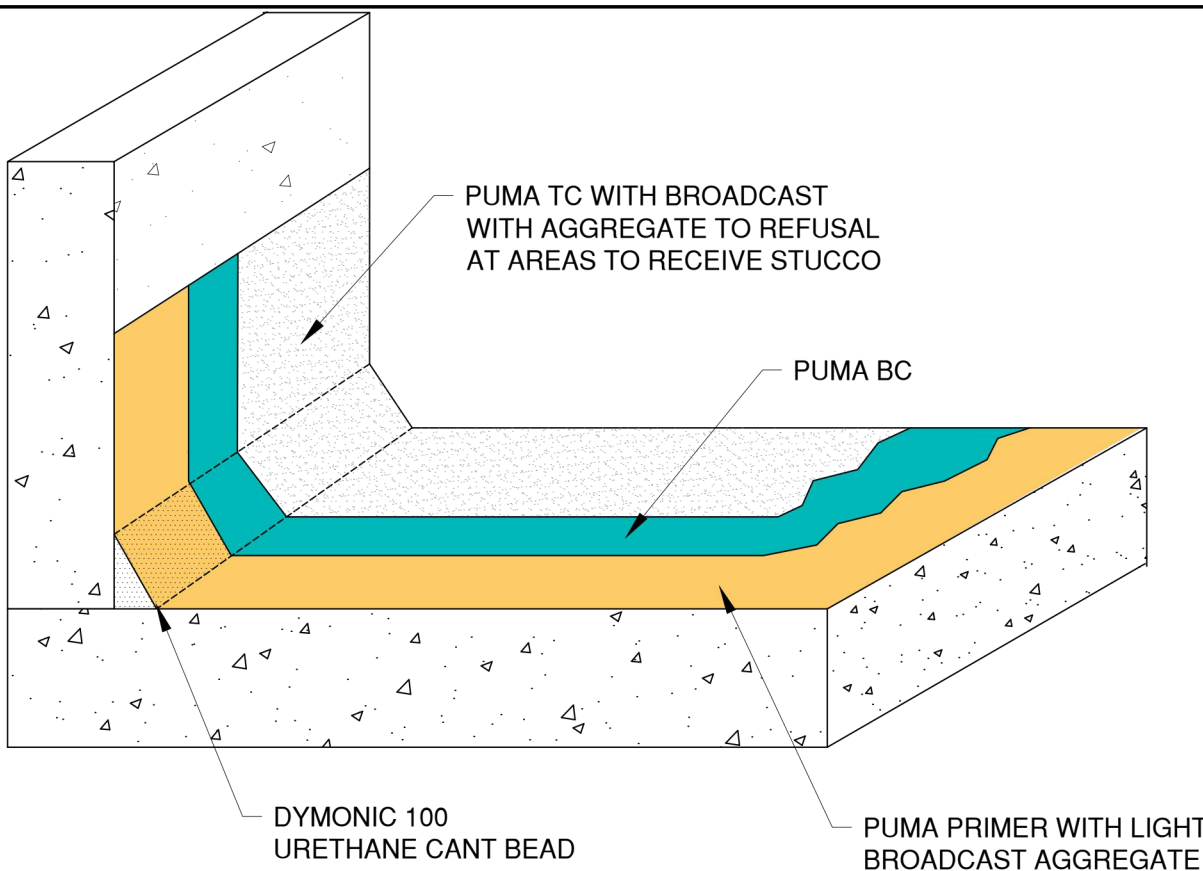
S-14

PLAZA DECK WATERPROOFING DETAIL

N.T.S.

4

S-14



- NOTES:
- THIS DETAIL IS FOR CONCEPTUAL PURPOSES ONLY.
 - PROPER APPLICATION IS THE RESPONSIBILITY OF THE INSTALLATION PROFESSIONAL. SURFACE PREPARATION, SUBSTRATE ADHESION, PROPER INSTALLATION AND OTHER VARIABLES OUTSIDE OF THE MANUFACTURER'S CONTROL ARE THE SOLE RESPONSIBILITY OF THE USER. FIELD VISITS BY TREMCO PERSONNEL ARE FOR THE PURPOSE OF MAKING TECHNICAL RECOMMENDATIONS, NOT FOR SUPERVISING OR PROVIDING QUALITY CONTROL.
 - TREMCO CANNOT BE RESPONSIBLE FOR MATERIAL DIFFERENCES, SUBSTITUTIONS, OR DAY-TO-DAY VARIATIONS IN THE FINISHING PROCESS THAT MAY ALTER THESE RECOMMENDATIONS/RESULTS.

Project: TYPICAL PROJECT	File Name: PUMA UT PROFILE
Detail: PUMA UNDER TILE PROFILE	
This detail is intended for conceptual purposes only.	Drawn by: JB
Checked by: JB	Scale: NTS
Date: 9/21/2020	

PLAZA DECK WATERPROOFING DETAIL

N.T.S.

5

S-14

PLAZA DECK WATERPROOFING DETAIL

N.T.S.

6

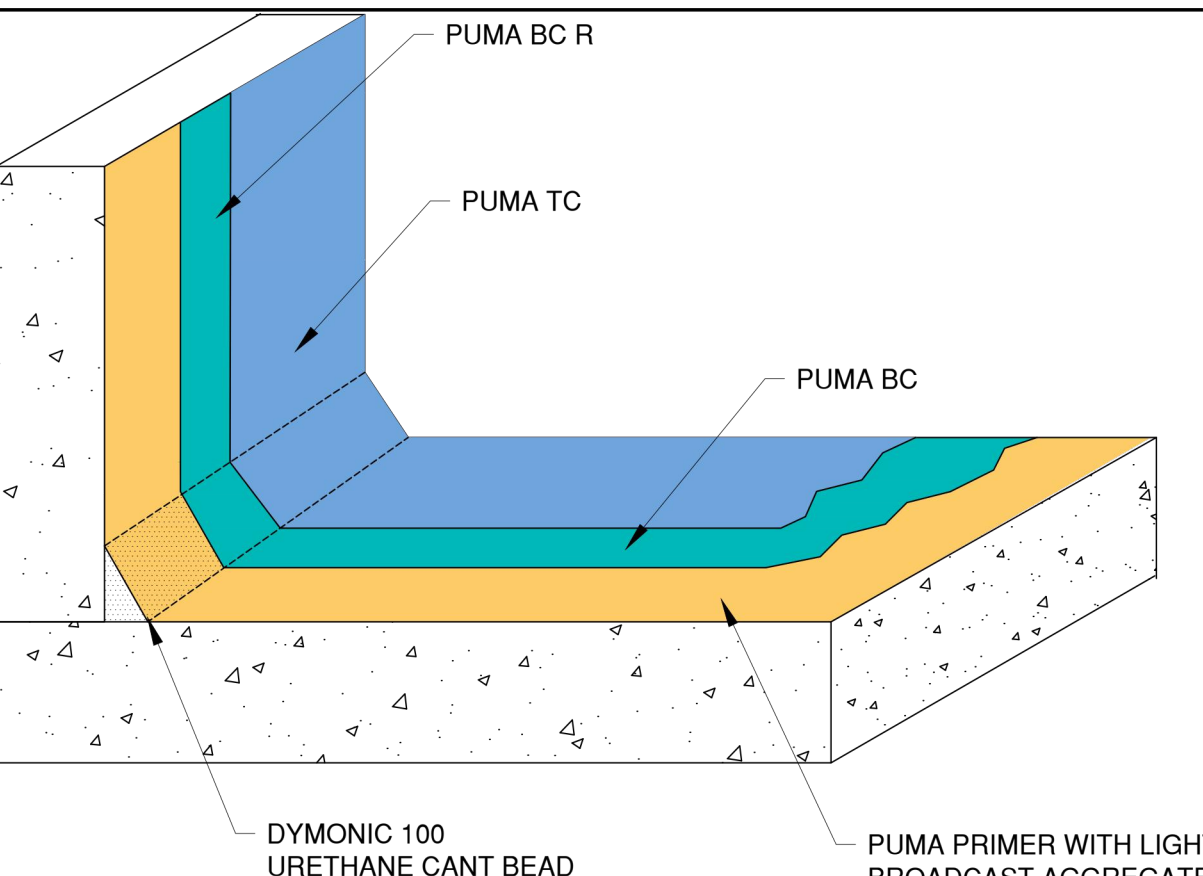
S-14

PLAZA DECK WATERPROOFING DETAIL

N.T.S.

7

S-14



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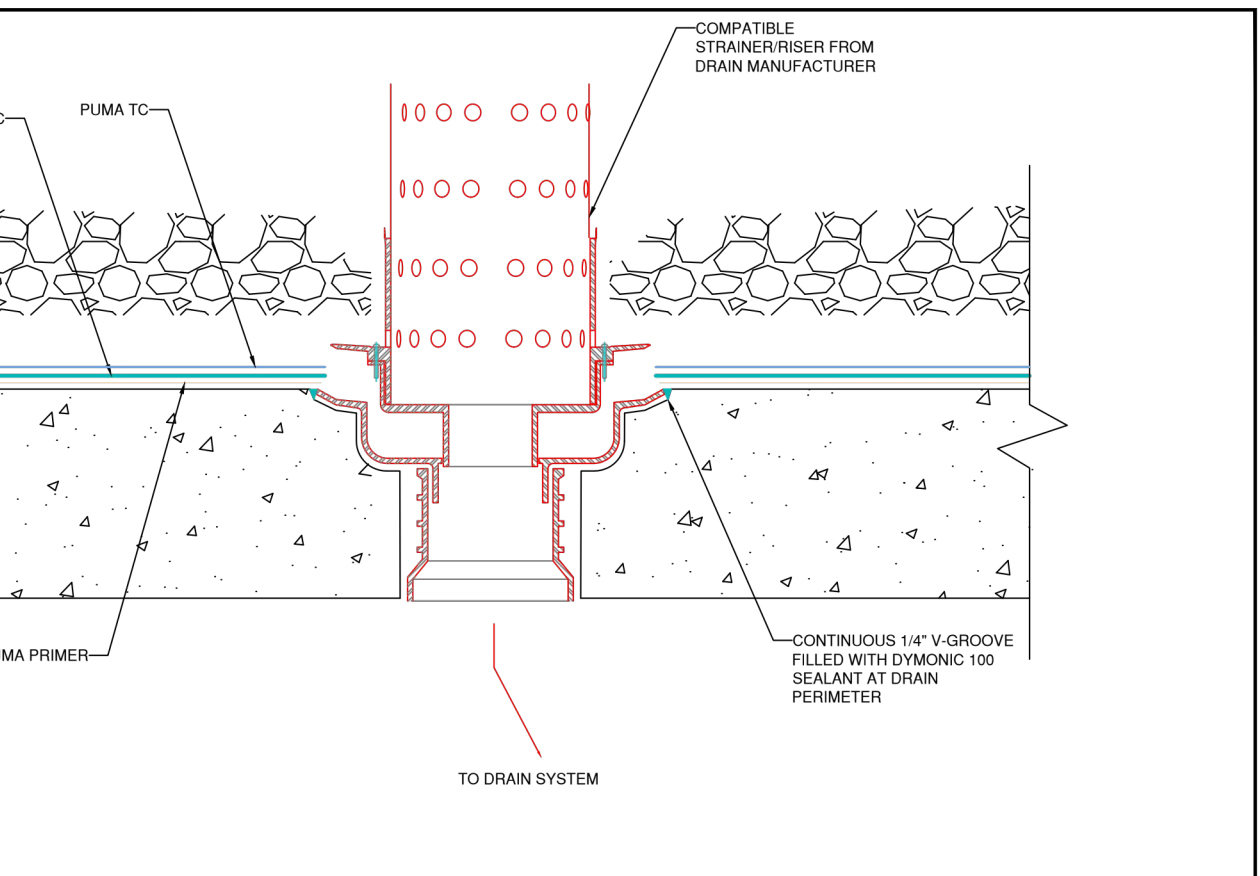
Project: TYPICAL PROJECT	File Name: PUMA UT PROFILE
Detail: PUMA PLANTER PROFILE	
This detail is intended for conceptual purposes only.	Drawn by: JB
Checked by: CM	Scale: NTS
Date: 2/28/2022	

PLANTER WATERPROOFING DETAIL

N.T.S.

8

S-14



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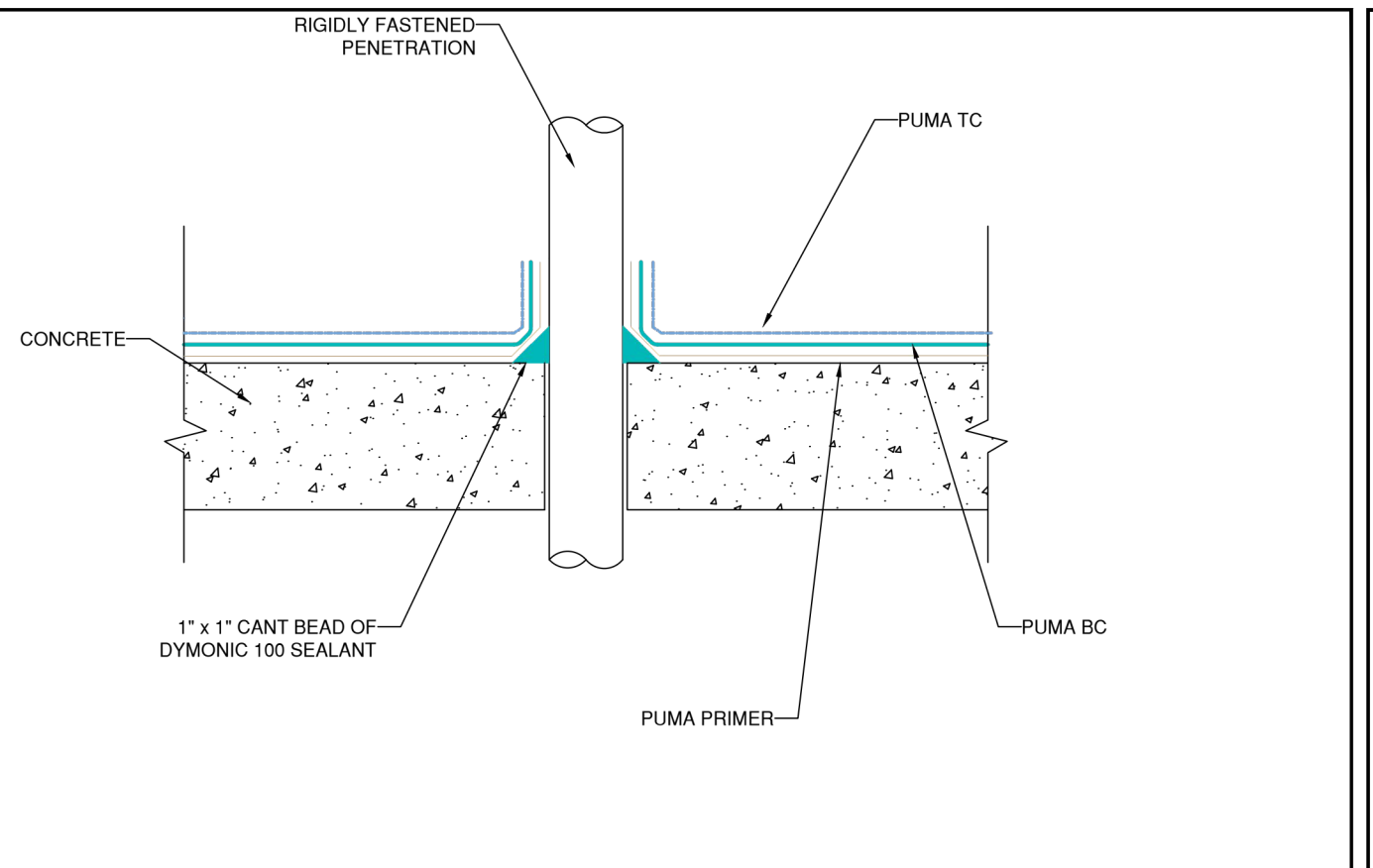
Project: TYPICAL PROJECT	File Name: PUMA PLANTER DRAIN
Detail: TREMPROOF PUMA PLANTER DRAIN	
This detail is intended for conceptual purposes only.	Drawn by: JB
Checked by: CM	Scale: NTS
Date: 2/28/2022	

PLANTER WATERPROOFING DETAIL

N.T.S.

9

S-14



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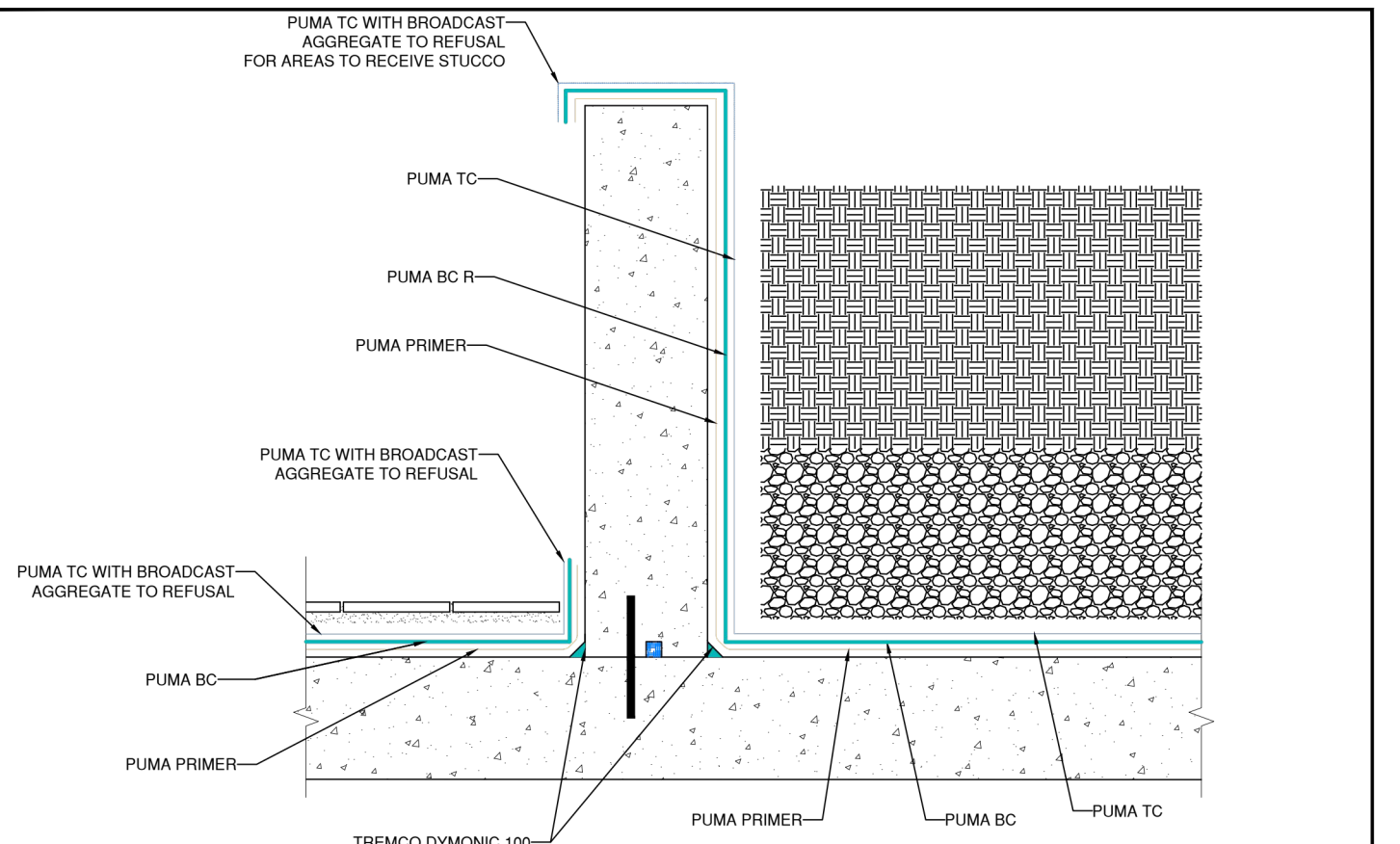
Project: TYPICAL PROJECT	File Name: PUMA PEN
Detail: TREMPROOF PUMA PLANTER PENETRATION	
This detail is intended for conceptual purposes only.	Drawn by: JB
Checked by: CM	Scale: NTS
Date: 2/28/2022	

PLANTER WATERPROOFING DETAIL

N.T.S.

10

S-14



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Project: TYPICAL PROJECT	File Name: PUMA PLANTER
Detail: PUMA PLANTER WITH PUMA UNDER TILE WATERPROOFING	
This detail is intended for conceptual purposes only.	Drawn by: JB
Checked by: CM	Scale: NTS
Date: 2/28/2022	

PLANTER WATERPROOFING DETAIL

N.T.S.

11

S-14

Myles J Harris

Digitally signed by Myles J Harris

Date: 2024.11.11 08:23:44 -05'00'

REVISIONS

Surfside Palms Condominium Restoration Project

8888 Collins Avenue

Surfside FL, 33154

Infinite Engineering

Registration No. 37147

818 SE 4th Street #204

Fort Lauderdale, FL 33301

telephone : 904-654-8802

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

MYLES J. HARRIS

No. 91630

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FL P.E. NO. 91630

This item has been digitally signed and sealed by Myles J. Harris, P.E., on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

PLAZA AND PLANTER WATERPROOFING DETAILS

DRAWN BY: SW ES

DESIGN BY: MH

DATE: NOVEMBER 10, 2024

JOB NO: 24-50

SHEET

S-14