

CONCRETE SLAB REPLACEMENT KELLER POINTE INDOOR SWIMMING POOL

GENERAL NOTES

- THIS PROJECT CONSISTS OF INSTALLING A NEW STRUCTURAL CONCRETE SLAB TO REPLACE AN ORIGINAL STRUCTURAL SLAB THAT HAS BEEN REMOVED. THE NEW SLAB IS LOCATED WITHIN AN EXISTING, OPERATIONAL RECREATION CENTER, AND SURROUNDS AN INDOOR SWIMMING POOL.
- WISS, JANNEY, ELSTNER ASSOC., INC. (WJE) IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE NEW SLAB. WJE IS NOT RESPONSIBLE FOR THE STRUCTURAL ADEQUACY OF THE POOL SHELL, ADJACENT BEAMS, OR ANY OTHER PORTION OF THE EXISTING BUILDING.
- THE NEW SLAB HAS BEEN DESIGNED IN ACCORDANCE WITH STRUCTURAL PROVISIONS OF THE 2021 INTERNATIONAL BUILDING CODE.
- THE DESIGN LIVE LOAD FOR THE NEW SLAB IS 100 PSF.
- THE SCOPE OF WORK GENERALLY CONSISTS OF:
 - SELECTIVE CONCRETE DEMOLITION AND SURFACE PREPARATION
 - SUBGRADE GRADING
 - CARTON FORMS
 - VAPOR BARRIER
 - REINFORCING STEEL BARS AND DOWELS
 - CAST-IN-PLACE CONCRETE
- THE COMPLETE SCOPE OF WORK IS DESCRIBED IN THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS, COLLECTIVELY REFERRED TO AS CONTRACT DOCUMENTS. PORTIONS OF THE SPECIFICATIONS HAVE BEEN REPRODUCED IN THESE GENERAL NOTES FOR CONVENIENCE. REFER TO SPECIFICATIONS FOR REQUIREMENTS NOT SUMMARIZED IN THESE GENERAL NOTES.
- A PARTIAL SET OF ORIGINAL DRAWINGS IS AVAILABLE FROM THE CITY OF KELLER. CONTRACTOR SHALL OBTAIN THE ORIGINAL DRAWINGS AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
- DIMENSIONS, ELEVATIONS, AND OTHER CONDITIONS RELATED TO THE EXISTING CONSTRUCTION ARE BASED ON INFORMATION SHOWN ON THE ORIGINAL DRAWINGS AND LIMITED SITE OBSERVATIONS BY WJE. FIELD VERIFY EXISTING CONDITIONS AND PROMPTLY NOTIFY WJE OF ANY IDENTIFIED DISCREPANCIES THAT MAY AFFECT THE WORK.
- DO NOT SCALE DRAWINGS. USE ONLY DIMENSIONS INDICATED.
- PROMPTLY NOTIFY WJE OF ERRORS, INCONSISTENCIES IN DRAWINGS OR NOTES, OR IF CLARIFICATION IS REQUESTED, WHETHER OR NOT RELATED TO EXISTING CONDITIONS.
- COMPLY WITH LAWS, STATUTES, ORDINANCES, RULES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTIONS OVER PERFORMANCE OF THE WORK.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION.
- IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM FOR ALL WORK. OCCASIONAL PRESENCE AT JOB SITE BY WJE, OWNER, TESTING AGENCY, OR OTHER PARTIES OBSERVING THE WORK DOES NOT RELIEVE CONTRACTOR OF ITS OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- HANDLE, STORE, TRANSPORT, AND INSTALL ALL PROPRIETARY PRODUCTS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
- SUBMIT PRODUCT DATA FOR ALL SPECIFIED PRODUCTS TO WJE FOR REVIEW.
- DO NOT IMPOSE LOADS ON NEW SLAB FROM MATERIALS, EQUIPMENT, OR PERSONNEL THAT EXCEEDS THE DESIGN LIVE LOAD OF 100 PSF.

EARTHWORK

- PROBE SUBGRADE FOR AREAS OF WET, SOFT, OR COMPRESSIBLE MATERIAL. REMOVE UNSUITABLE MATERIAL SO FIRM SMOOTH SUBGRADE IS PROVIDED FOR CARTON FORMS.
- IF EARTHWORK IS REQUIRED TO BE IMPORTED TO PROVIDE PROPER ELEVATIONS, SUBMIT SAMPLE TO OWNER'S CONSTRUCTION MATERIALS TESTING AGENCY FOR REVIEW AND APPROVAL.

CARTON FORMS AND VAPOR BARRIER

- CARTON FORMS SHALL CONSIST OF SLABVOID SYSTEM MANUFACTURED BY VOIDFORM PRODUCTS, INC., AND SHALL INCLUDE COVERBOARD.
- VAPOR BARRIER SHALL BE 15-MIL, CLASS A, STEGO WRAP, MANUFACTURED BY STEGO INDUSTRIES, INC.
- INSTALL VAPOR BARRIER ON TOP OF CARTON FORMS. (SEE PLAN FOR ISOLATED LOCATION WITH BARRIER ALSO ON BOTTOM.)
- TAPE JOINTS OF VAPOR BARRIER TO ADJACENT SHEETS AND EDGE OF EXISTING EXPOSED BARRIER, IF PRESENT, OR TO FACE OF EXISTING CONCRETE.

CONCRETE

- PERFORM ALL CONCRETE WORK IN ACCORDANCE WITH ACI 301-20, "SPECIFICATIONS FOR CONCRETE CONSTRUCTION."
- CONCRETE SHALL BE NORMAL WEIGHT AND ATTAIN A COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
- REFER TO SPECIFICATIONS FOR ADDITIONAL CONCRETE MIX DESIGN REQUIREMENTS.
- REINFORCING STEEL BARS SHALL COMPLY WITH ASTM A615, GRADE 60.
- SELECTIVE DEMOLITION OF EXISTING CONCRETE SHALL BE PERFORMED USING METHODS AND EQUIPMENT THAT MINIMIZE DAMAGE TO EXISTING CONCRETE THAT IS TO REMAIN. PERFORM DETAIL DEMOLITION USING MAXIMUM 15# CHIPPING HAMMER. APPLY CHIPPING HAMMER BIT TO SURFACE OF CONCRETE AT AN ANGLE NO GREATER THAN 60 DEGREES FROM SURFACE.
- WHERE EXISTING CONCRETE IS TO RECEIVE NEW CONCRETE, ROUGHEN EXISTING SURFACE TO ICRI CSP-3, UNLESS NOTED OTHERWISE. AFTER ROUGHENING, ABRASIVE BLAST EXPOSED SURFACES.
- REMOVE CORROSION PRODUCT FROM EXPOSED REINFORCING STEEL BY ABRASIVE BLAST. APPLY 2 COATS OF CORROSION INHIBITING PRIMER TO STEEL SURFACES.
- WHERE REINFORCING BARS ARE INDICATED TO BE INSTALLED INTO HARDENED CONCRETE, EMBED BARS SPECIFIED AMOUNT USING HILTI HIT HY-200 ADHESIVE, MANUFACTURED BY HILTI, INC.
- WHERE MECHANICAL COUPLERS ARE INDICATED TO BE INSTALLED TO EXISTING REINFORCING BARS, PROVIDE ZAP SCREWLOCK SL SERIES COUPLERS MANUFACTURED BY BAR SPLICE PRODUCTS, INC.
- PROVIDE WATERSTOP AT ALL JOINTS BETWEEN EXISTING AND NEW CONCRETE. WATERSTOP SHALL BE SYNKO-FLEX, MANUFACTURED BY HENRY COMPANY.
- DEPOSIT CONCRETE CONTINUOUSLY IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS THAT NO NEW CONCRETE WILL BE PLACED ON MATERIAL THAT HAS HARDENED ENOUGH TO CAUSE SEAMS OR PLANES OF WEAKNESS. PLACE CONCRETE USING EQUIPMENT AND METHODS THAT AVOID SEGREGATION OR IMPROPER CONSOLIDATION.
- SUBMIT PROPOSED LOCATION OF CONSTRUCTION JOINTS TO WJE FOR REVIEW AND APPROVAL.
- DO NOT CREATE CONTROL JOINTS IN SLAB.
- ELEVATION OF CONCRETE SLAB SHALL MATCH ELEVATION OF EXISTING CONCRETE AT OUTER AND INNER PERIMETERS OF WORK AREA, UNLESS NOTED OTHERWISE.
- PROVIDE DOWNWARD SLOPE OF SLAB TOWARD FLOOR DRAINS TO PROMOTE DRAINAGE OF SURFACE WATER. DO NOT EXCEED A SLOPE OF 2 PERCENT. AMOUNT AND LOCATION OF SLOPE TO BE DETERMINED BY OTHERS (I.E., NOT WJE).
- PROVIDE LIGHT BROOM FINISH TO SURFACE OF CONCRETE, AS APPROVED BY OWNER.
- PROMPTLY CURE CONCRETE USING MOISTURE RETENTION METHODS THAT ARE COMPATIBLE WITH ANY SUBSEQUENT COATINGS OR FLOORING. KEEP SURFACES CONTINUOUSLY MOIST FOR AT LEAST 7 DAYS USING WET CURING.
- INSTALL SIKAFLEX 1C SL POLYURETHANE SEALANT ALONG ALL JOINTS BETWEEN EXISTING AND NEW CONCRETE.

SPECIAL INSPECTION AND TESTING BY OWNER

- OWNER WILL PROVIDE SERVICES OF WJE AND TESTING AGENCY AS REQUIRED TO COMPLY WITH REQUIREMENTS OF CHAPTER 17 OF THE 2021 IBC.
- TESTING AGENCY WILL PERFORM THE FOLLOWING INSPECTIONS AND MATERIAL SAMPLING:
 - SUBGRADE CONDITION PRIOR TO PLACEMENT OF CARTON FORMS
 - REINFORCING STEEL PRIOR TO PLACEMENT OF CONCRETE
 - INSTALLATION OF FIRST 50 REINFORCING BAR COUPLERS, AND 25 PERCENT THEREAFTER
 - CONCRETE SAMPLING AND TESTING AS DESCRIBED IN SPECIFICATIONS
- WJE WILL CONDUCT SITE OBSERVATIONS AT INTERVALS APPROPRIATE TO THE STAGE OF CONSTRUCTION. SITE VISITS ARE ANTICIPATED AT:
 - NEAR COMPLETION OF SELECTIVE CONCRETE DEMOLITION
 - NEAR COMPLETION OF REINFORCEMENT BAR PLACEMENT

SHALLOW DEPTH CONCRETE REPAIRS

- MECHANICALLY SOUND AREAS TO IDENTIFY EXTENT OF UNSOUND CONCRETE.
- REMOVE UNSOUND CONCRETE BY MECHANICAL MEANS. SAWCUT EDGES OF REPAIR AREA TO CREATE GENERALLY RECTANGULAR GEOMETRY OF APPROXIMATE UNIFORM DEPTH. DO NOT OVERCUT CORNERS AND DO NOT DAMAGE EXISTING REINFORCING STEEL.
- REPAIR MATERIAL SHALL CONSIST OF SIKAGUICK 1000 OR 2500 MANUFACTURED BY SIKA CORPORATION.
- MOISTEN CONCRETE SUBSTRATE TO A SATURATED SURFACE DRY (SSD) CONDITION AT TIME OF REPAIR MATERIAL PLACEMENT.
- REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR OTHER PREPARATION, INSTALLATION, AND CURING REQUIREMENTS.



PHOTO 1 - LOOKING SOUTH ALONG EAST WALL



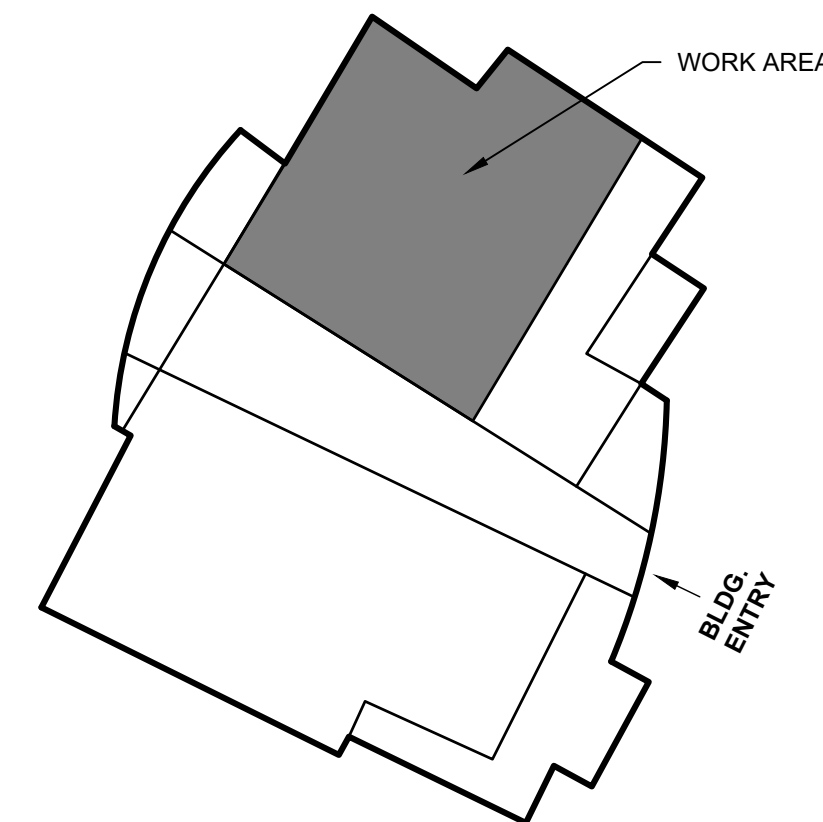
PHOTO 2 - LOOKING WEST ALONG NORTH WALL



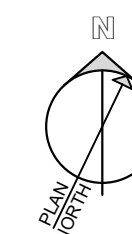
PHOTO 3 - CLOSEUP OF BAR STUBS AT SOUTH WALL



PHOTO 4 - CLOSEUP OF NO BAR STUBS AT EAST POOL WALL, AT STEPS INTO POOL



1 KEY PLAN



Sheet List Table	
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S0	COVER SHEET AND GENERAL NOTES
S1	POOL FOUNDATION PLAN
S2	SECTIONS & DETAILS
S3	SECTIONS & DETAILS
S4	SECTIONS & DETAILS
S5	TYPICAL DETAILS

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Consultants

Project

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SWIMMING POOL
405 RUFÉ SNOW DRIVE
KELLER, TEXAS 76248

Client

THE CITY OF KELLER TEXAS
405 RUFÉ SNOW DRIVE
KELLER, TEXAS 76248

Mark	Date	Description
1	7-23-2022	GENERAL REVISIONS
	5/27/2022	CONSTRUCTION

0 1/2" 1" 2"
THIS SHEET PLOTS FULL SIZE
AT 24x36 (INCHES)

Project No. 2022.1644.0
Date 7-23-2022
Drawn AAB
Checked MS/MWL
Scale As Noted

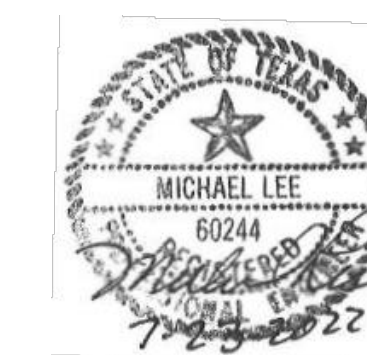
**COVER SHEET AND
GENERAL NOTES**

Sheet Title

Sheet No.

S0

Project: 7/23/2022 12:34 PM by Baker, Avel File Name: p:\2022\2022_1644_0 - keller pointe indoor pool (mwl)\drawings by jpe\sheet\1 INDOOR POOL PLAN.dwg
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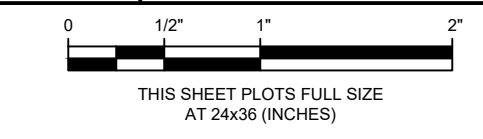
Project

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Drawn AAB

Checked MS/MWL

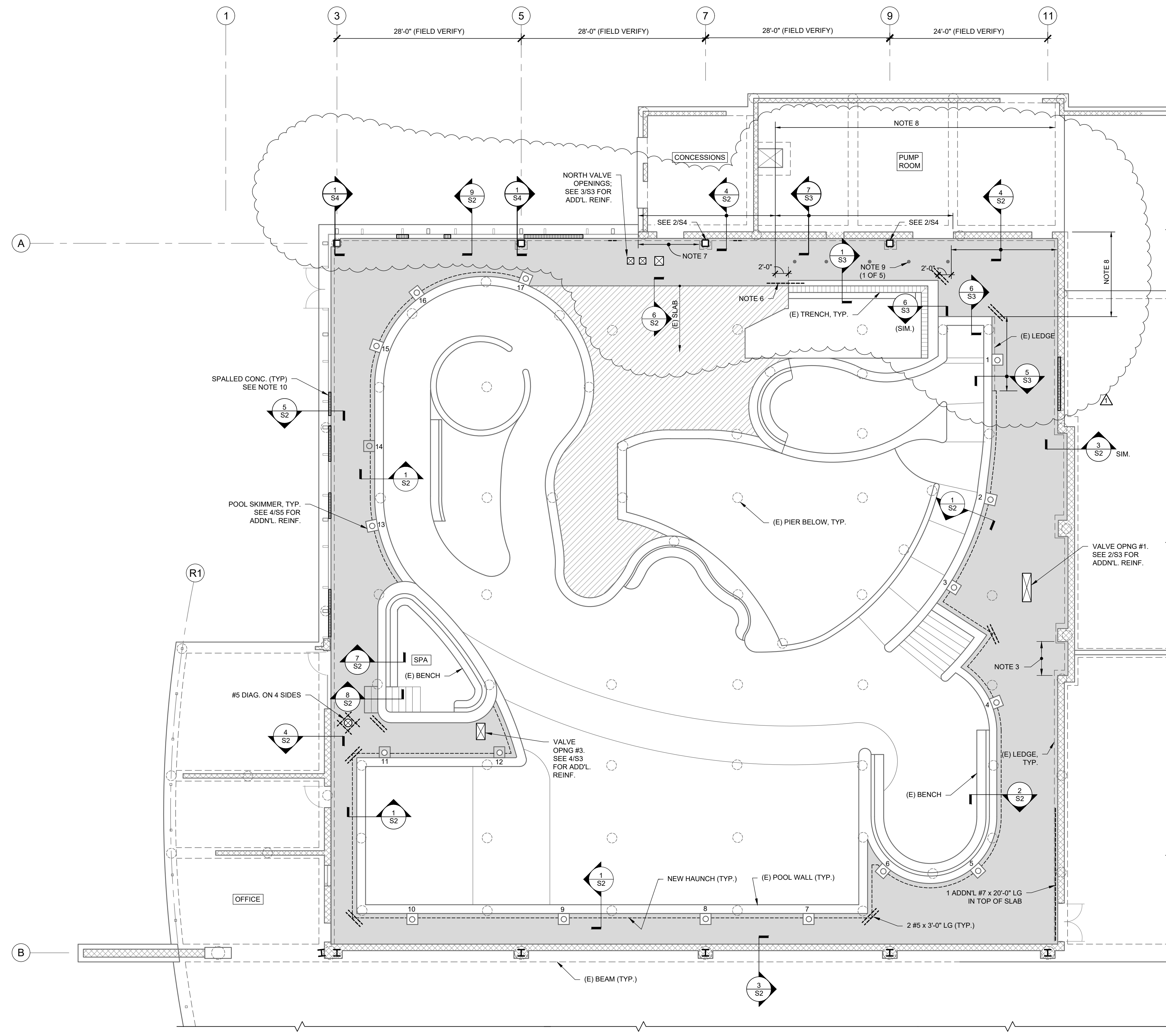
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POOL FOUNDATION PLAN

Sheet Title

Sheet No.

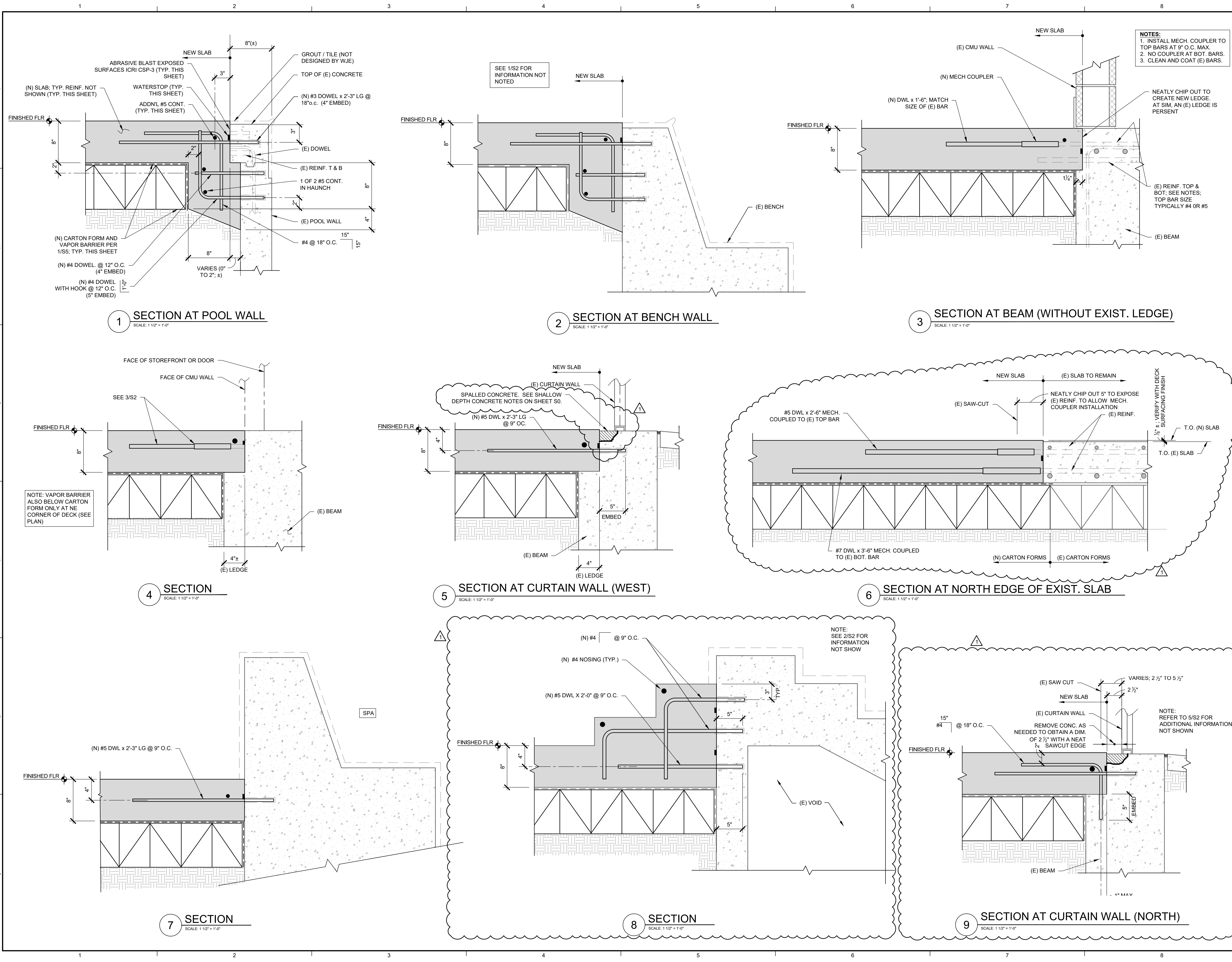
S1



- PLAN NOTES:**
- NEW 8" THICK SLAB ON CARTON FORM REINFORCED WITH #5 @ 9" O.C. E.W. IN TOP AND #7 @ 9" O.C. E.W. BOTTOM. SEE 1/S5 FOR BAR PLACEMENT.
 - EXISTING SLAB ON CARTON FORM TO REMAIN.
 - NEATLY CHIP OUT EXISTING CONCRETE SLAB TO FACE OF BEAM, MAINTAIN MINIMUM 8" STUB AT TOP AND BOTTOM BARS.
 - (E) = EXISTING
 - SEE SHEET S5 FOR TYPICAL DETAILS.
 - DOWELS TOP AND BOTTOM, #5 X 2'-6" LG, EMBED = 6".
 - EXISTING LEDGE IS SPALLED AND IRREGULAR SHAPED. NEATLY CHIP DOWN TO CREATE SMOOTH BEARING SURFACE.
 - VAPOR BARRIER ABOVE AND BELOW CARTON FORM ONLY THIS AREA.
 - NEW DECK DRAIN. ONLY DRAINS NORTH OF WATER SLIDE EXIT SHOWN.
 - SPALLED TOP SURFACE TO BE REPAIRED.

1 POOL FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"
 PLAN NORTH

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NOTES:
 1. INSTALL MECH. COUPLER TO TOP BARS AT 9" O.C. MAX.
 2. NO COUPLER AT BOT. BARS.
 3. CLEAN AND COAT (E) BARS.

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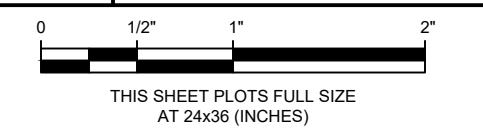


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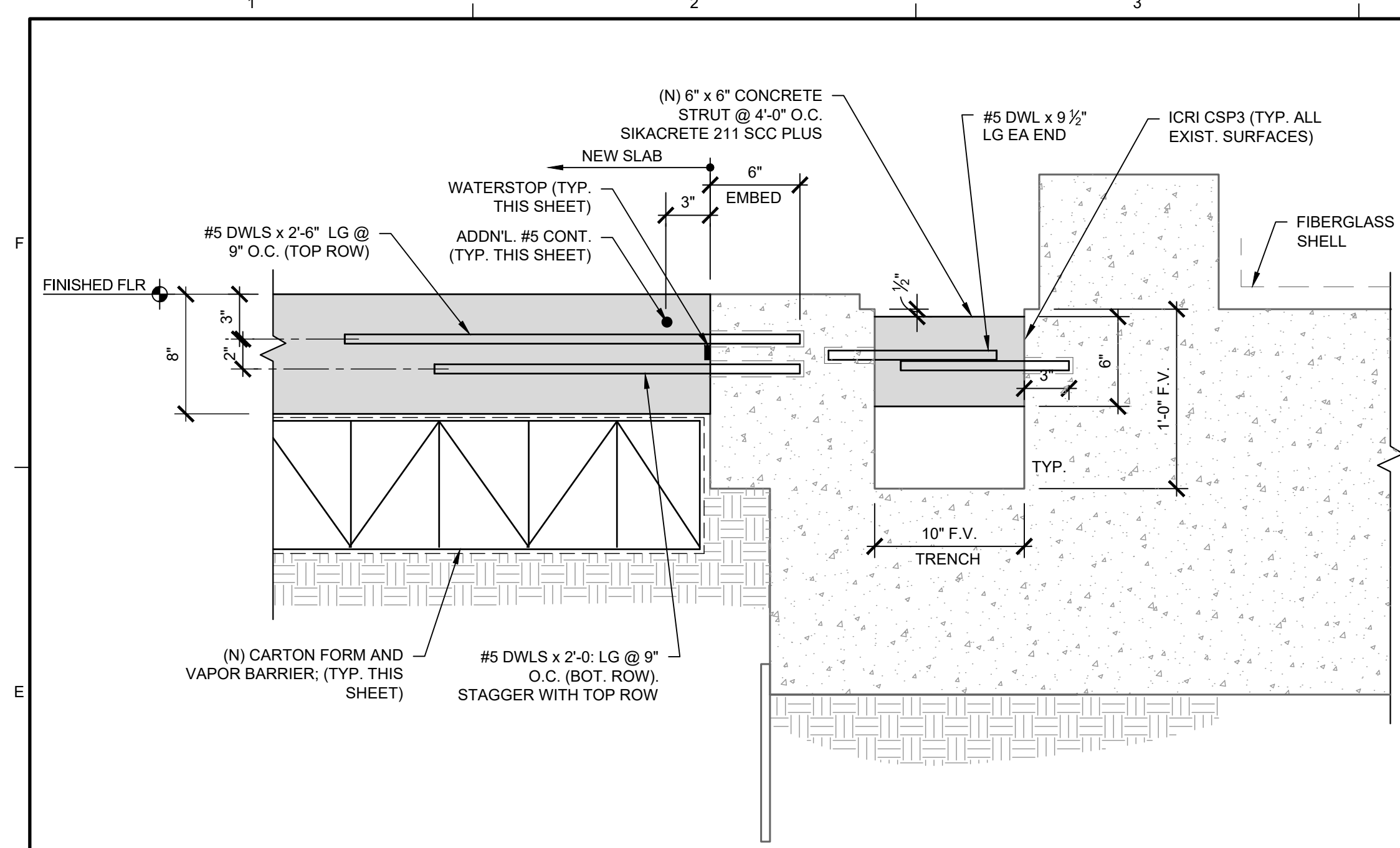
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SECTIONS & DETAILS

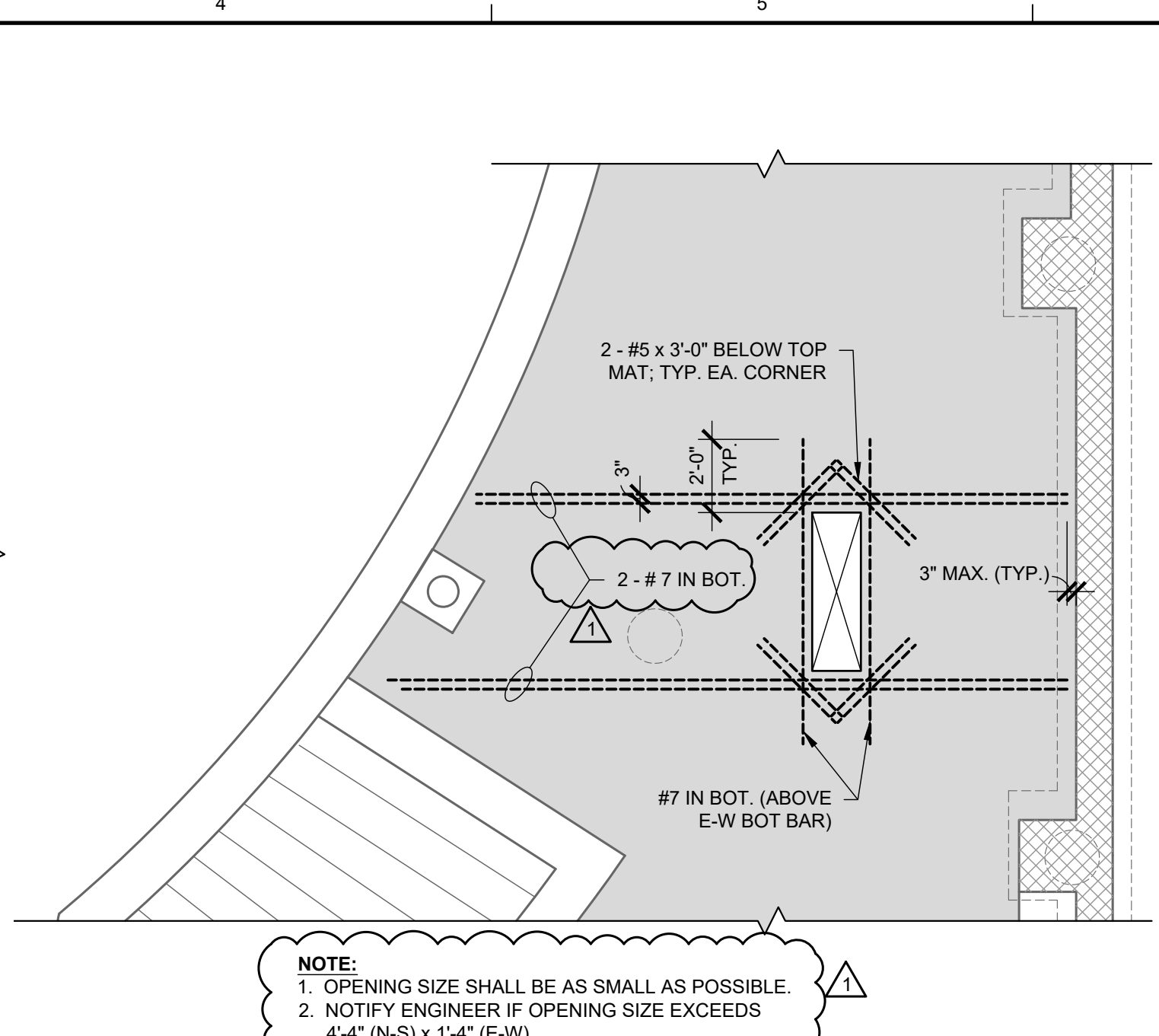
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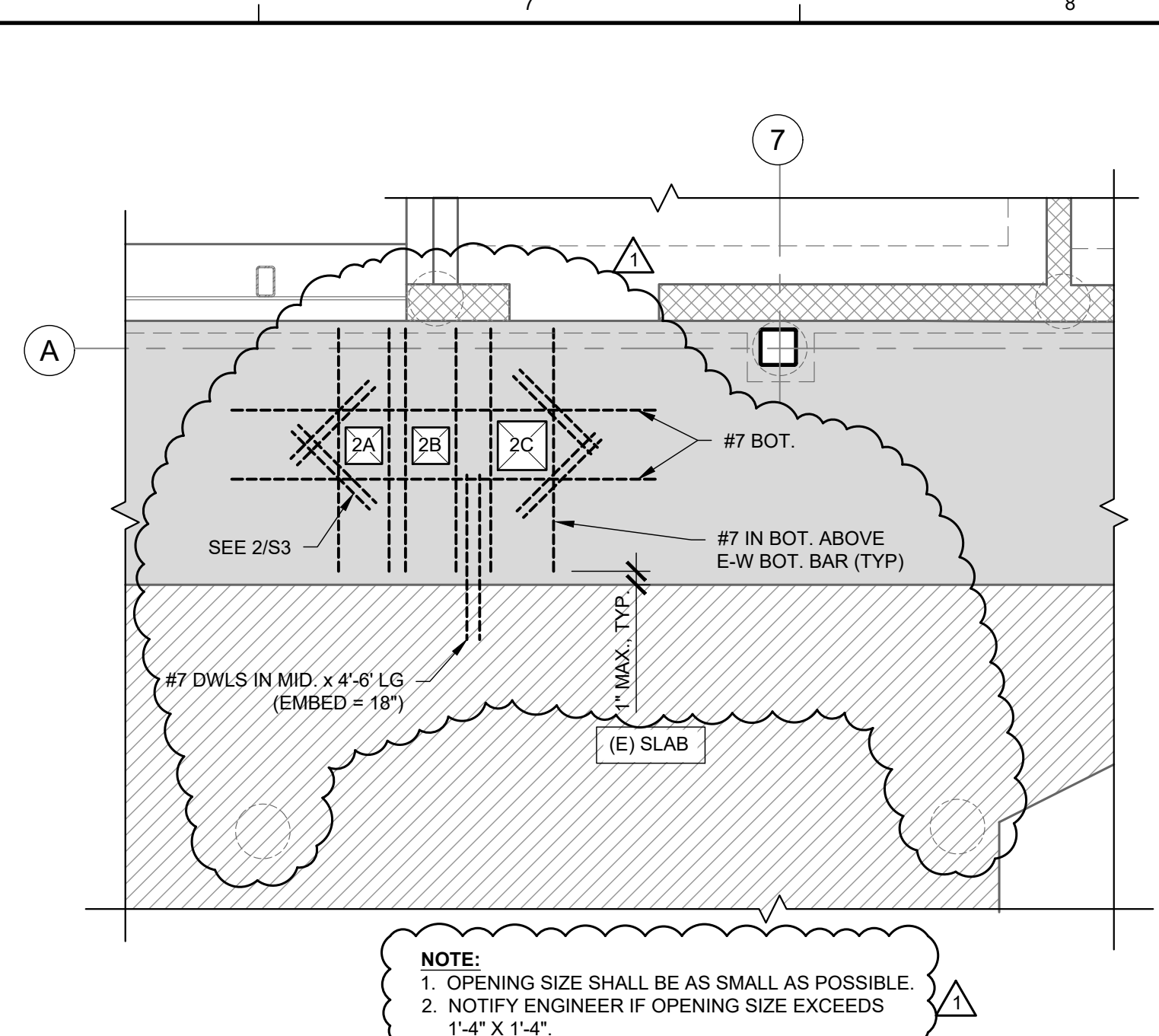
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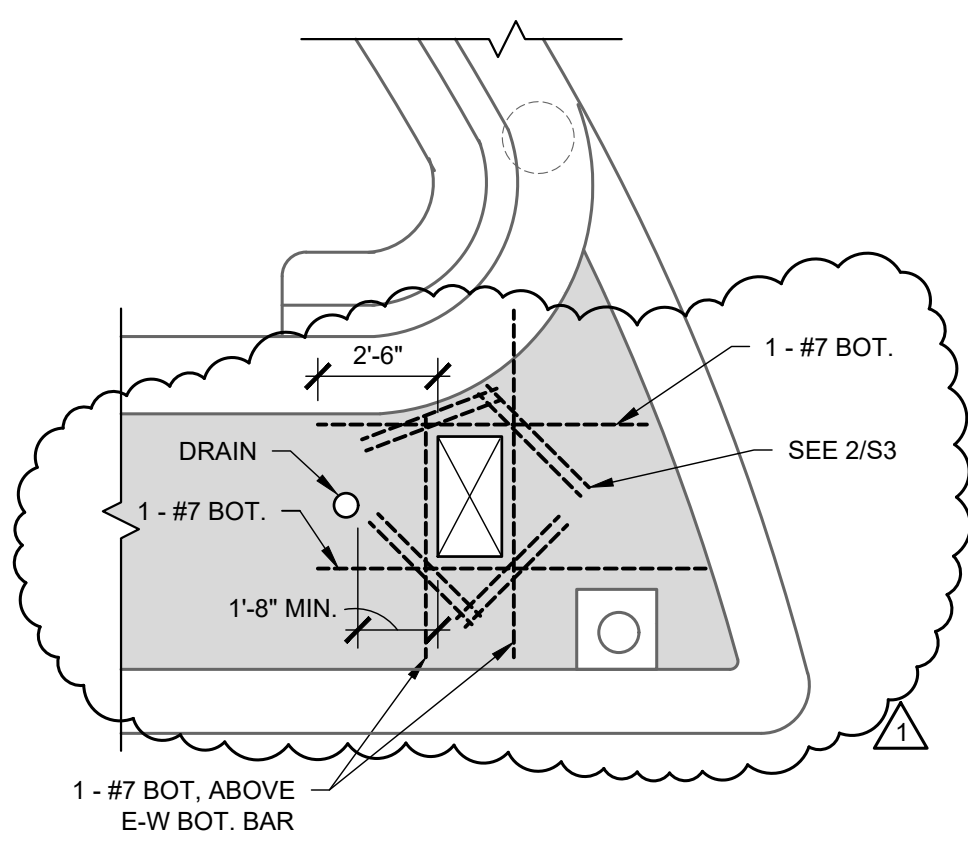
1 SECTION AT TRENCH
SCALE: 1 1/2" = 1'-0"



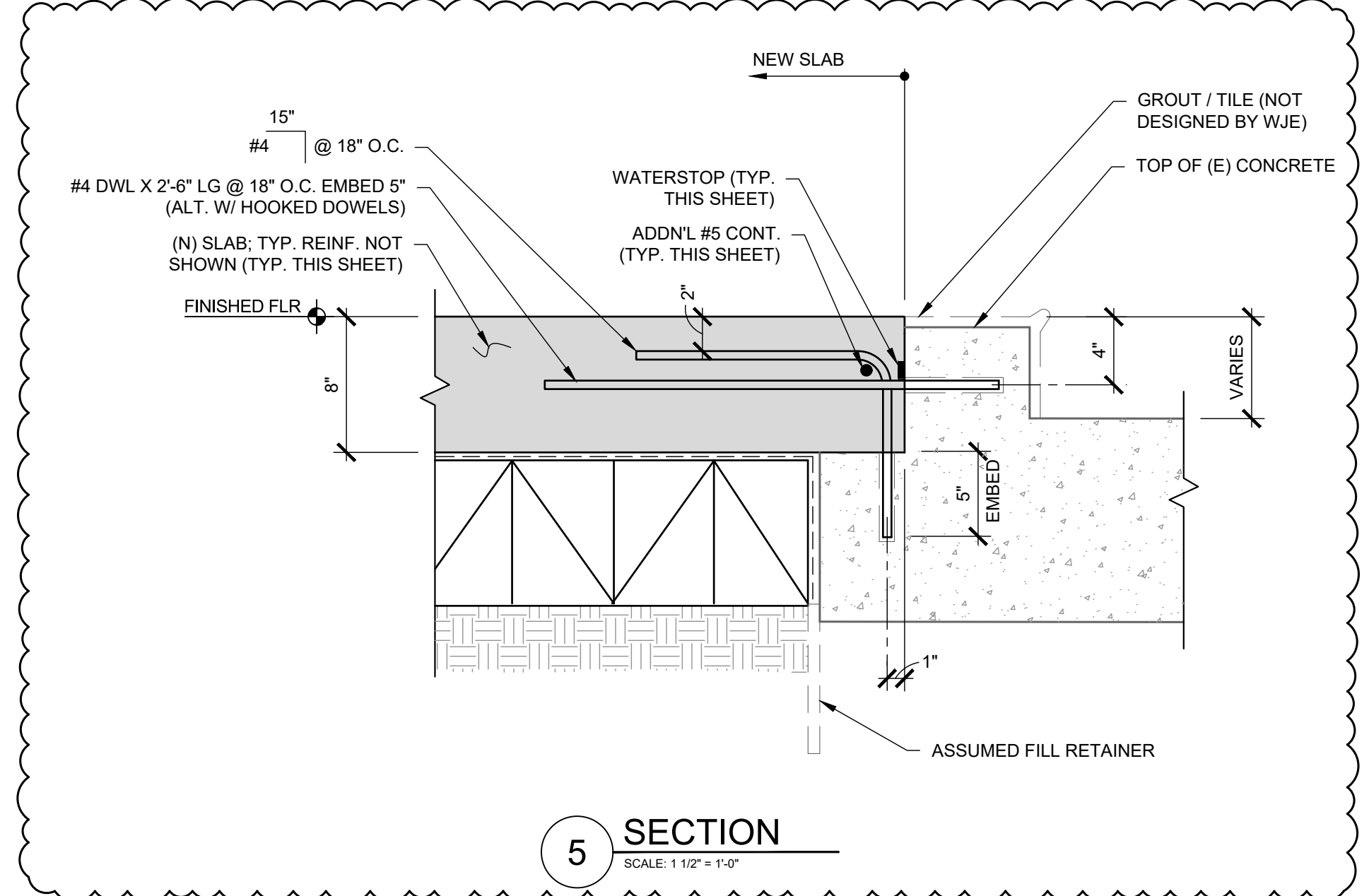
2 ADDITIONAL REINF. AT VALVE OPENING #1
SCALE: 1/4" = 1'-0"



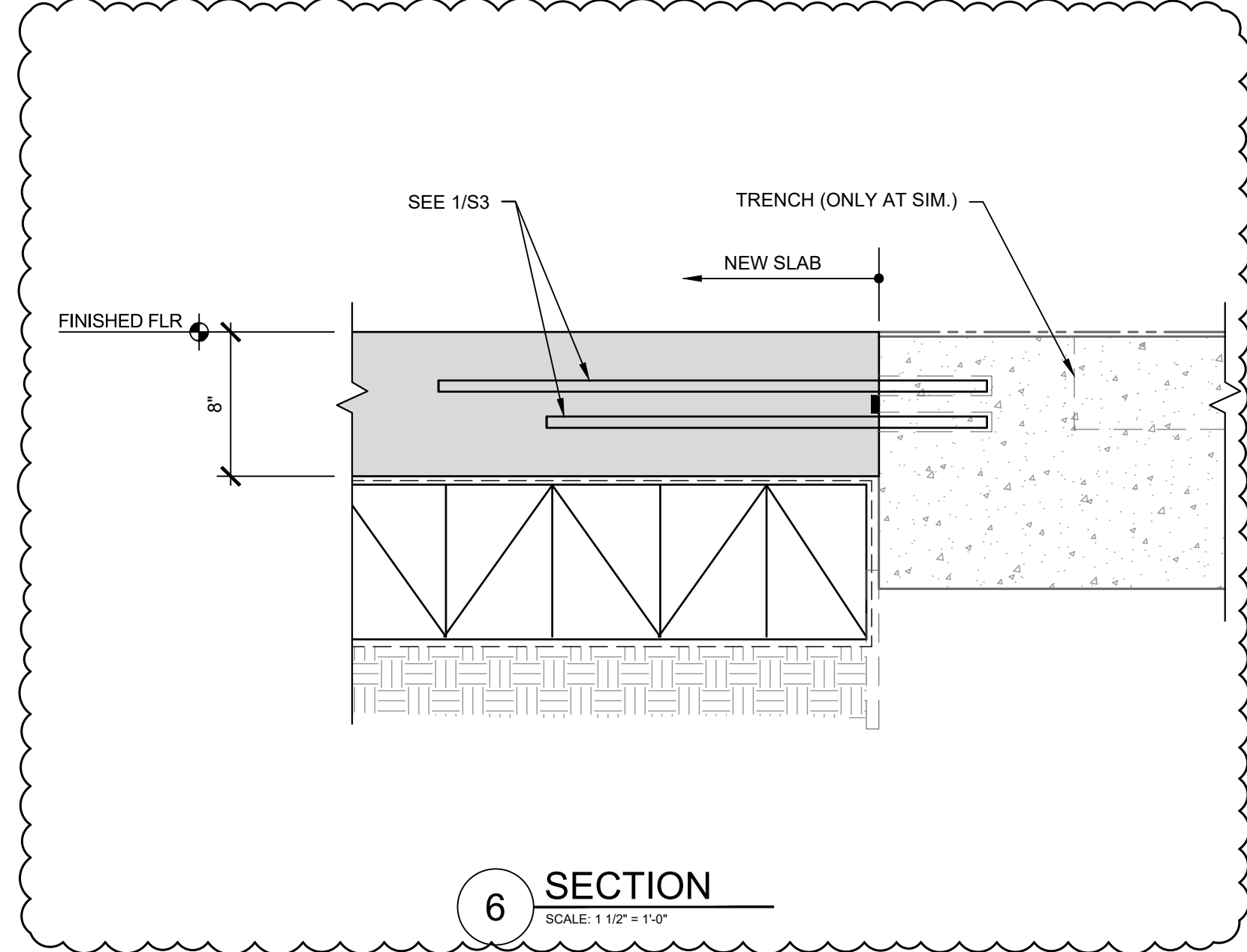
3 ADDITIONAL REINF. AT NORTH VALVE OPENINGS
SCALE: 1/4" = 1'-0"



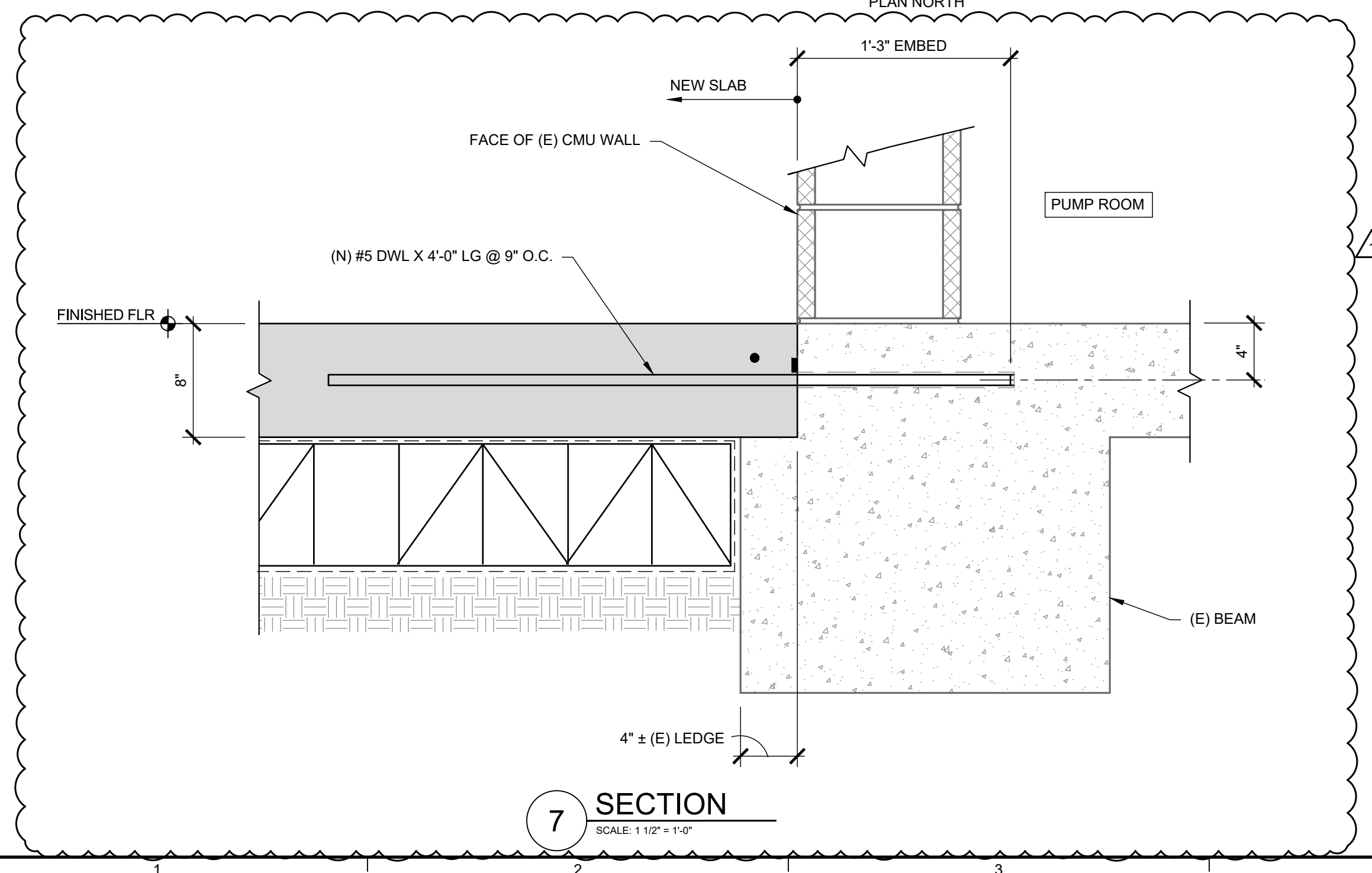
4 ADDITIONAL REINF. AT VALVE OPENING #3
SCALE: 1/4" = 1'-0"



5 SECTION
SCALE: 1 1/2" = 1'-0"



6 SECTION
SCALE: 1 1/2" = 1'-0"



7 SECTION
SCALE: 1 1/2" = 1'-0"

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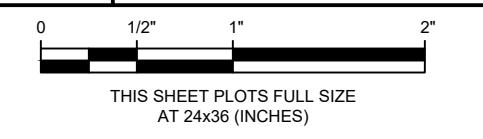


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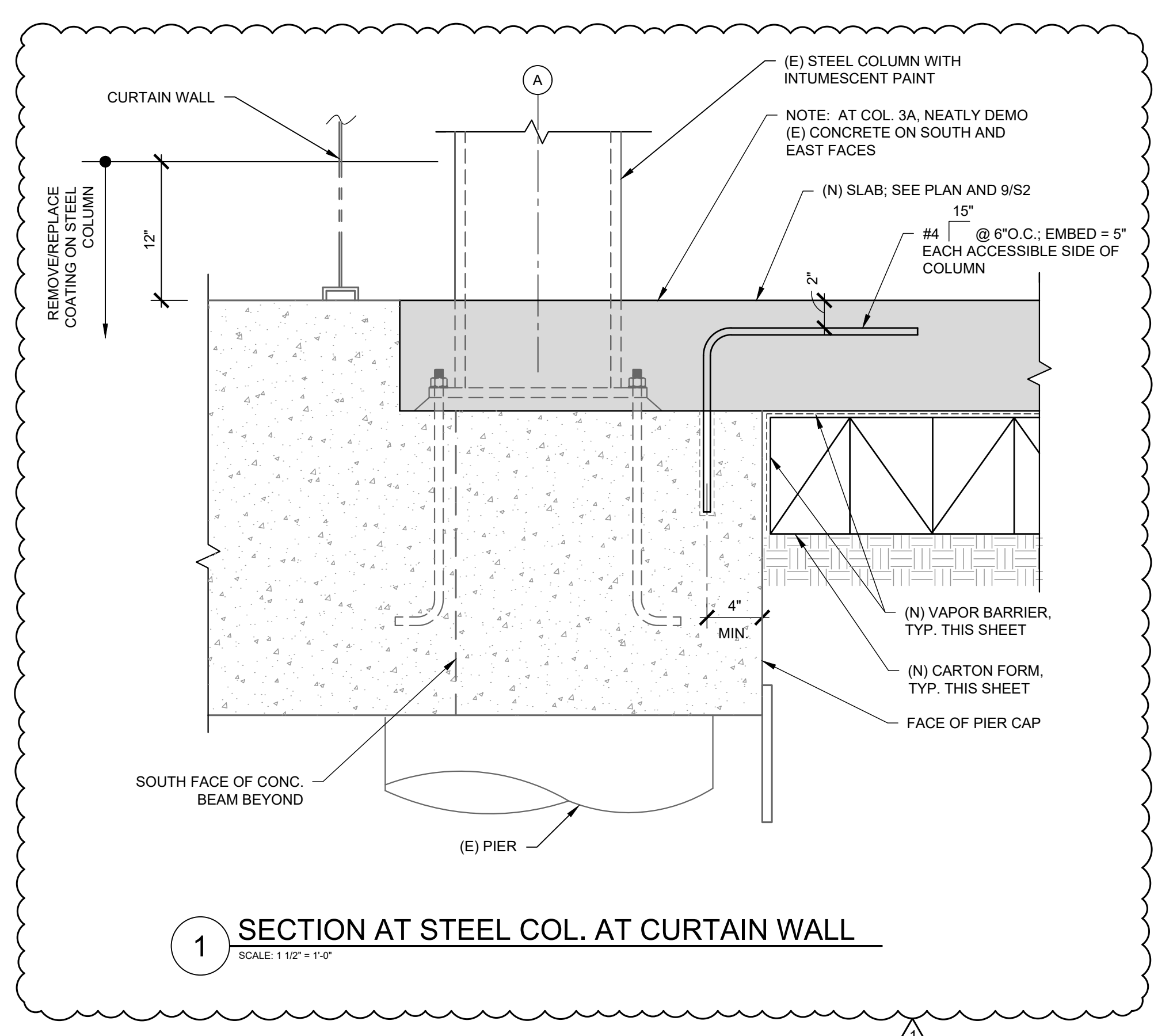


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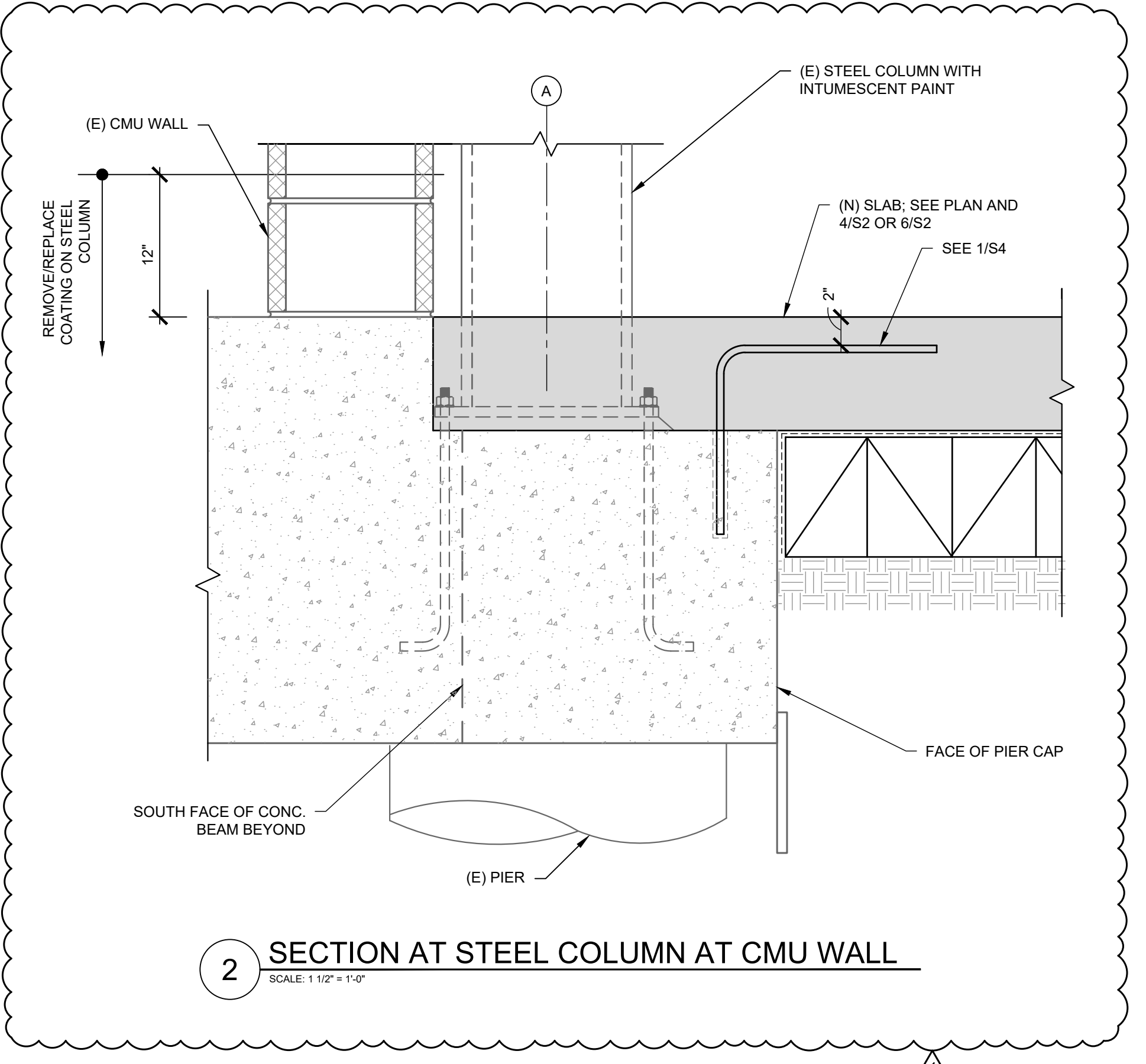
SECTIONS & DETAILS

Sheet Title
 Sheet No. **S3**

Plotted: 7/23/2022 12:24 PM by Baker, Aniel File Name: I:\2022\2022_1644_0 - Keller Pointe Indoor Pool (rev)\Drawings\WJE\Sheets\S4-REPAIR DETAILS.dwg



1 SECTION AT STEEL COL. AT CURTAIN WALL
SCALE: 1 1/2" = 1'-0"



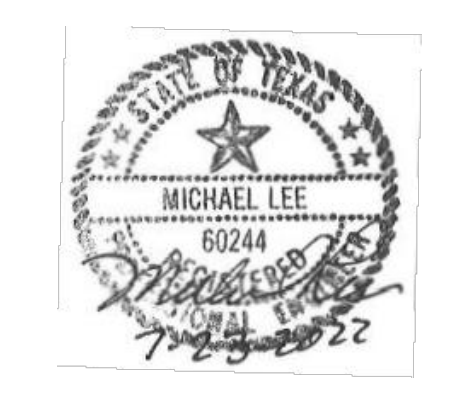
2 SECTION AT STEEL COLUMN AT CMU WALL
SCALE: 1 1/2" = 1'-0"

- GENERAL NOTES FOR INTUMESCENT PAINT REPAIR**
1. INTUMESCENT PAINT SHALL CONSIST OF AID FIREFILM III MANUFACTURED BY CARBOLINE.
 2. APPLY INTUMESCENT PAINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
 3. APPLICATION OF TOPCOAT IS REQUIRED. CONTACT MANUFACTURER FOR COMPATIBLE PRIMERS AND TOPCOATS. MATCH COLOR AND THICKNESS OF TOPCOAT TO ORIGINAL.
 4. ABRASE DAMAGED AREAS OF INTUMESCENT PAINT TO A FIRM EDGE BY SANDING OR SCAPING. ABRASE TOPCOAT BACK BY 1" FROM THE DAMAGED AREA. SURFACE MUST BE CLEAN AND DRY BEFORE RE-APPLYING. THE COATING SHALL THEN BE BUILT BACK TO THE ORIGINAL THICKNESS, ALLOWED TO DRY, THEN OVERCOATED WITH THE SPECIFIED TOPCOAT.
 5. ALL SURFACES MUST BE PRIMED WITH COMPATIBLE PRIMER AND BE CLEAN, DRY AND FREE OF OIL, DIRT, DUST, OR OTHER MATERIALS WHICH WOULD IMPAIR THE BOND OF MATERIAL TO THE SUBSTRATE.
 6. REPLACE INTUMESCENT PAINT WHERE SHOWN IN 1/54 AND 2/54. IN ADDITION, REPAIR ANY OTHER LOCATIONS WHERE EXISTING PAINT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITY.

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PHOTO 5 - COLUMN 3A LOOKING NORTH



PHOTO 6 - COLUMN 5A LOOKING NORTH

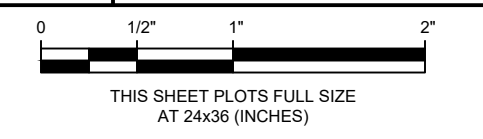


PHOTO 7 - COLUMN 7A LOOKING NORTH



PHOTO 8 - COLUMN 9A LOOKING NORTH

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Scale	As Noted

SECTIONS & DETAILS

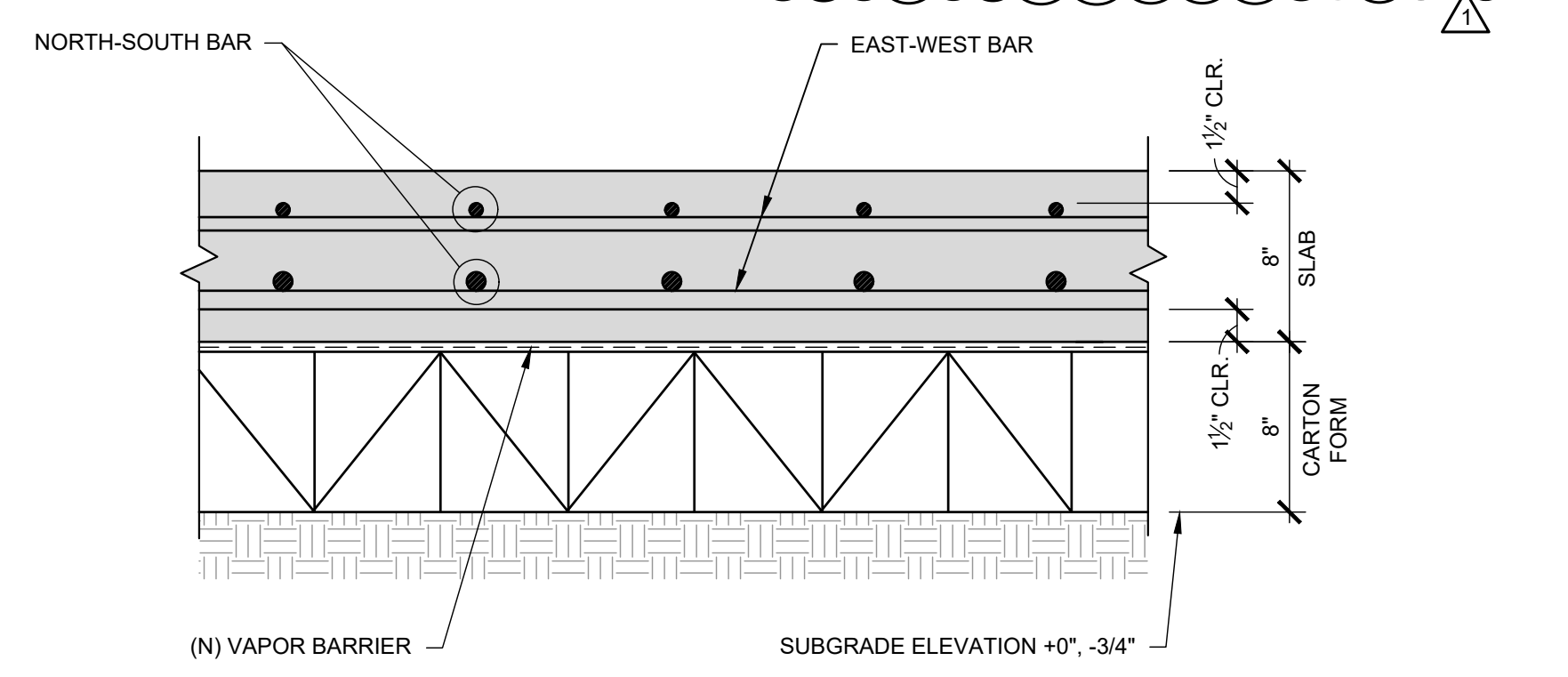
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Sheet No. **S4**

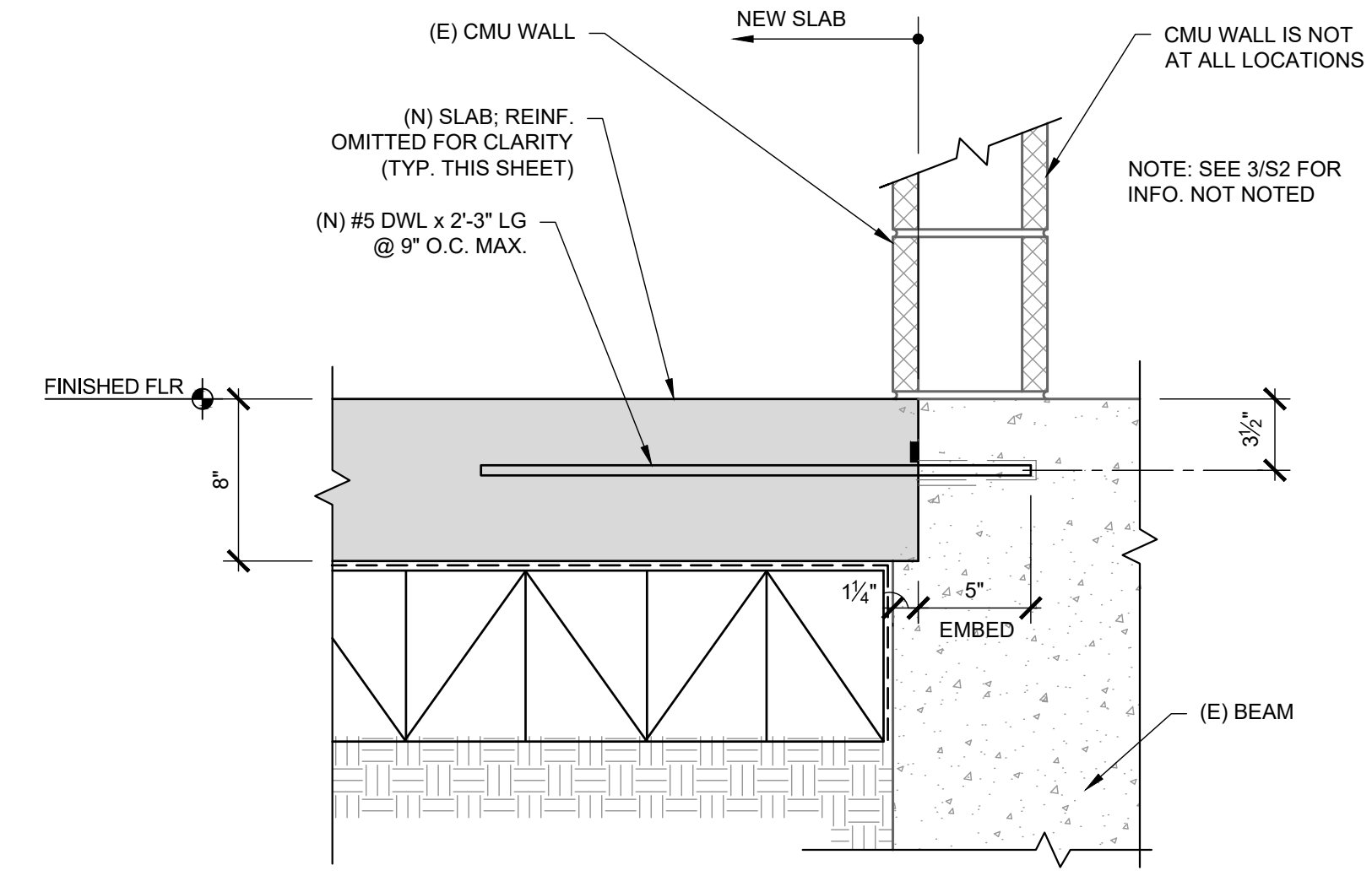
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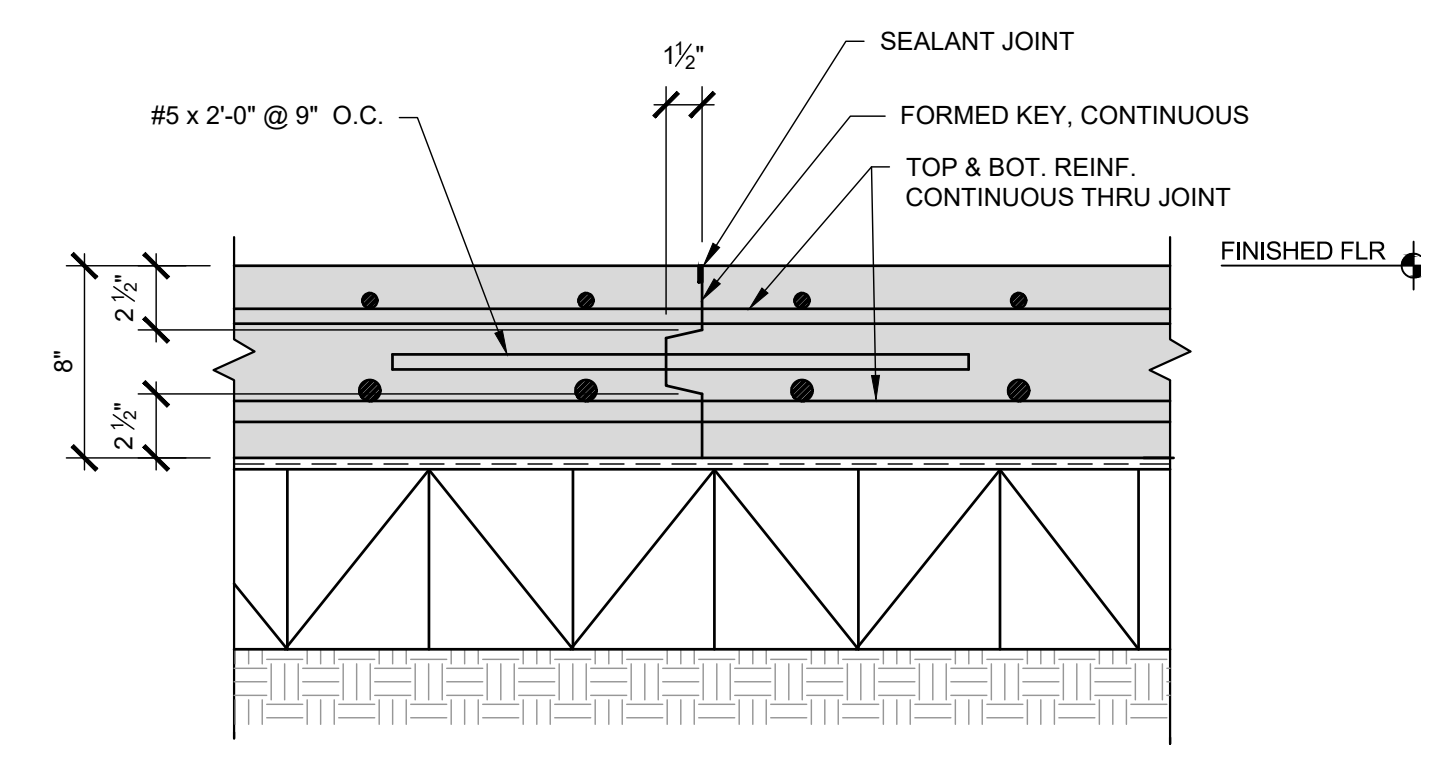
- NOTES:**
1. ALL BARS SPANNING BETWEEN POOL WALL AND BUILDING WALL SHALL BE CONTINUOUS (I.E., NOT SPLICED)
 2. LAP SPLICES FOR BARS SPANNING PARALLEL TO BUILDING WALL SHALL BE 30" FOR #5 AND 36" FOR #7.
 3. CONCRETE COVER TO TOP BARS SHALL BE MAINTAINED EVEN WHERE TOP OF SLAB SLOPES DOWN TO DRAINS.
 4. SLAB THICKNESS TOLERANCE SHALL BE AS FOLLOWS: MINUS 1/2" AND PLUS 1 1/2".
 5. SLAB BARS SHALL BE EXTENDED TO WITHIN 1 1/2" OF FACE OF EXISTING CONCRETE, U.N.O.



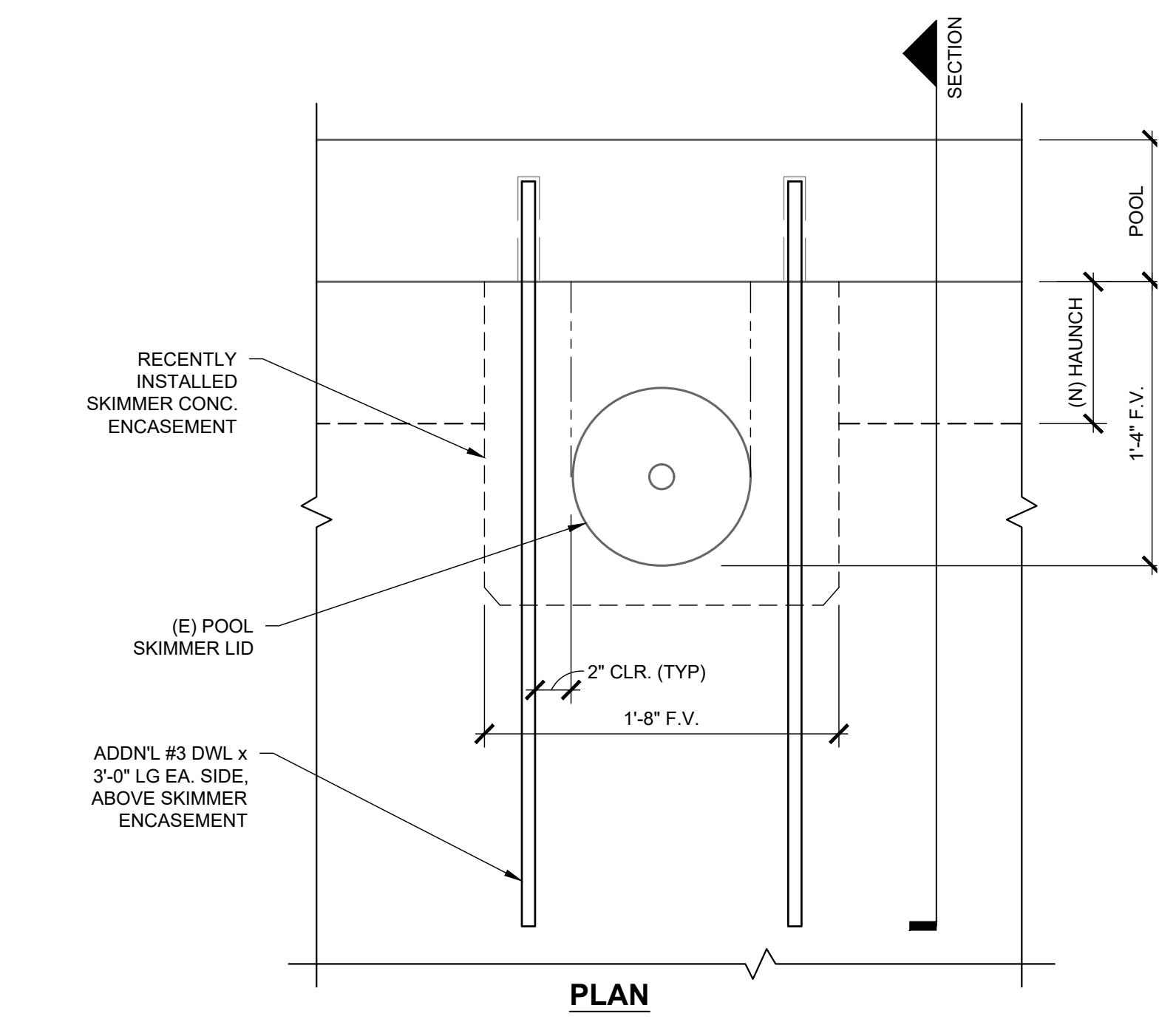
1 TYP. BAR PLACEMENT AND CARTON FORM DETAIL
SCALE: 1 1/2" = 1'-0"



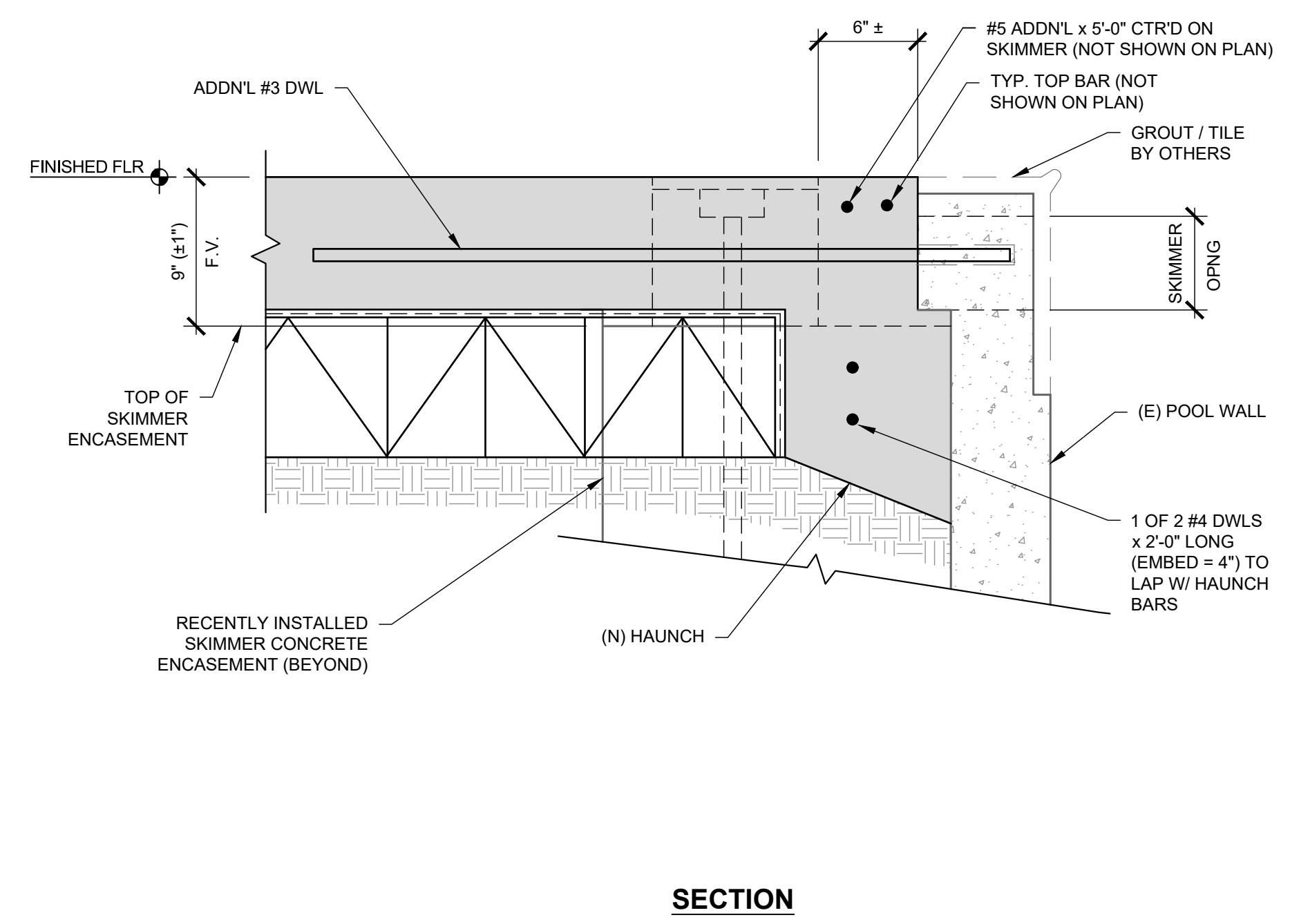
2 TYP. NEW DOWELS WHERE (E) TOP BAR STUB SPACING IS GREATER THAN 12 INCHES OR REBAR IS CUT FLUSH WITH BEAM FACE
SCALE: 1 1/2" = 1'-0"



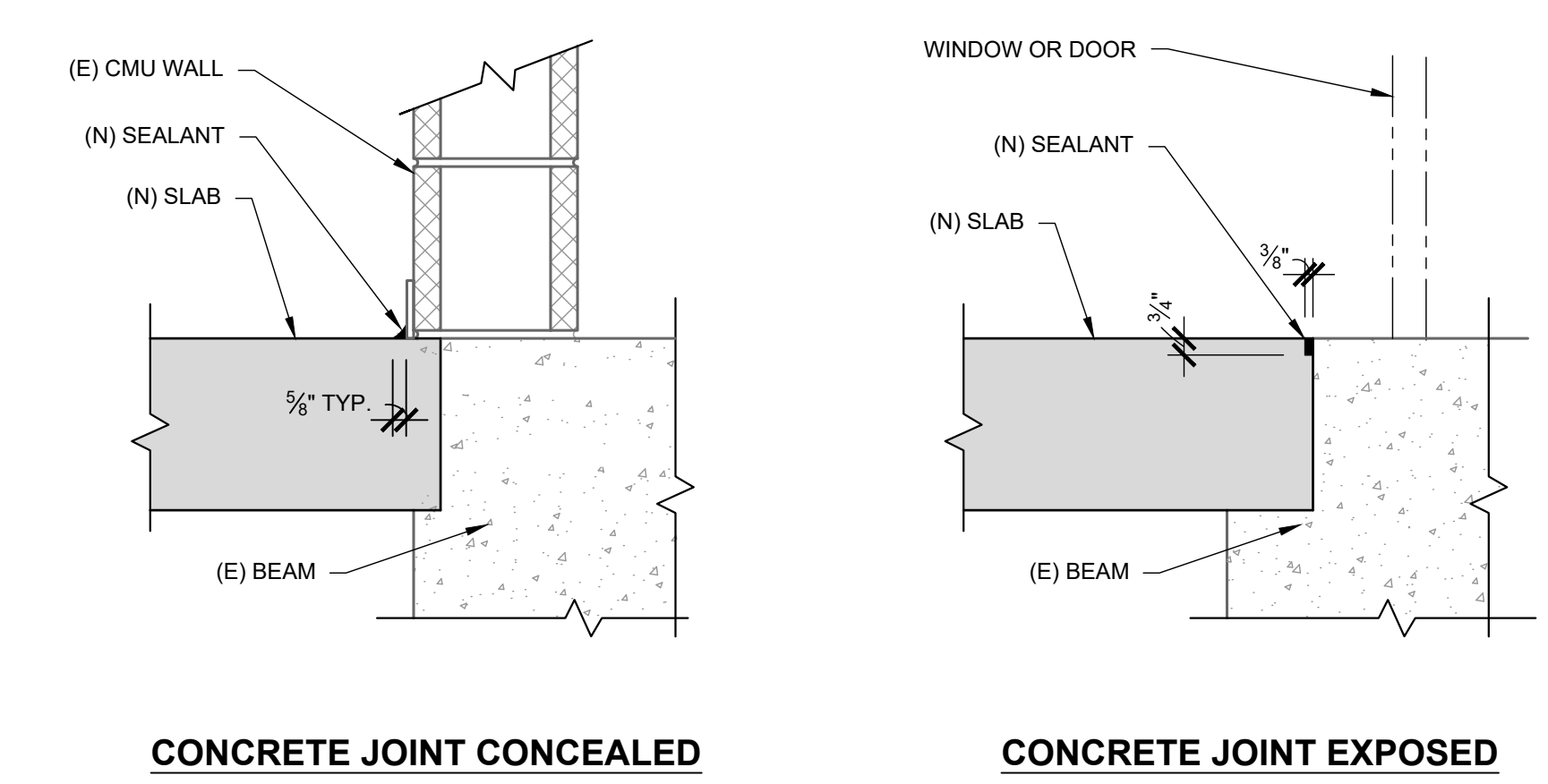
3 TYPICAL SLAB CONSTRUCTION JOINT
SCALE: 1 1/2" = 1'-0"



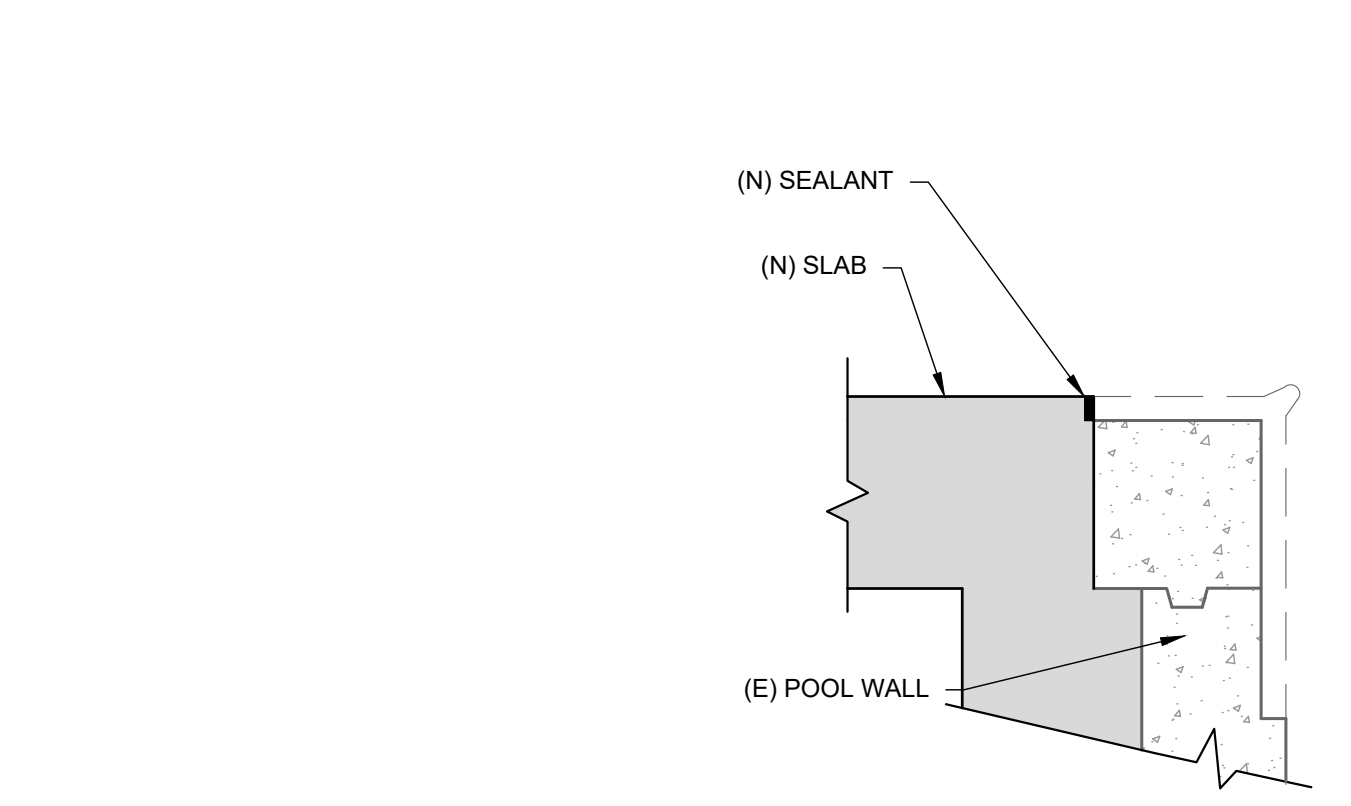
4 TYPICAL ADDITIONAL REINFORCING STEEL AT SKIMMER ENCASEMENT
SCALE: 1 1/2" = 1'-0"



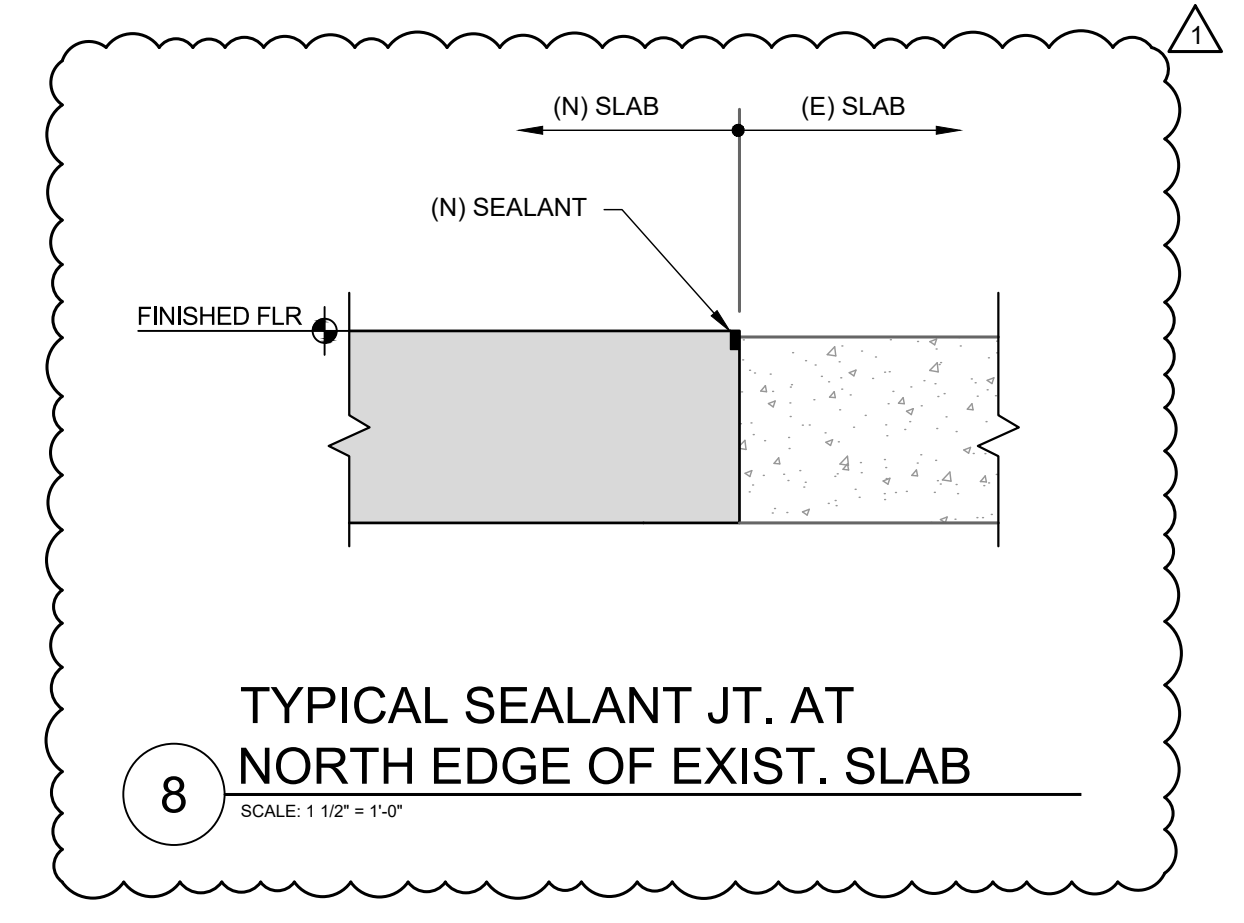
5



6 TYPICAL SEALANT JOINT AT BEAM
SCALE: 1 1/2" = 1'-0"

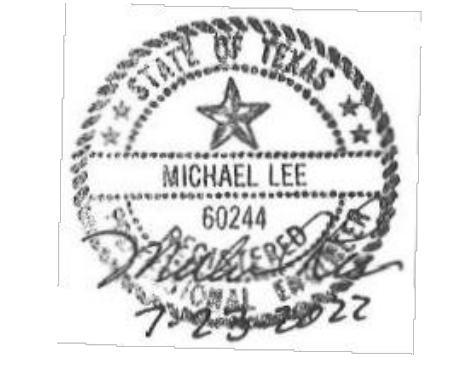


7 TYPICAL SEALANT JOINT AT POOL WALL
SCALE: 1 1/2" = 1'-0"



8 TYPICAL SEALANT JT. AT NORTH EDGE OF EXIST. SLAB
SCALE: 1 1/2" = 1'-0"

NOT USED

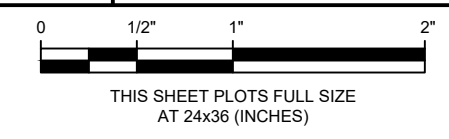


Consultants

Project
KELLER POINTE INDOOR SWIMMING POOL
405 RUFÉ SNOW DRIVE
KELLER, TEXAS 76248

Client
THE CITY OF KELLER TEXAS
405 RUFÉ SNOW DRIVE
KELLER, TEXAS 76248

Mark	Date	Description
1	7-23-2022	GENERAL REVISIONS
	5/27/2022	CONSTRUCTION



Project No. 2022.1644.0
Date 7-23-2022
Drawn AAB
Checked MS/MWL
Scale As Noted

TYPICAL DETAILS

Sheet Title

Sheet No. **S5**