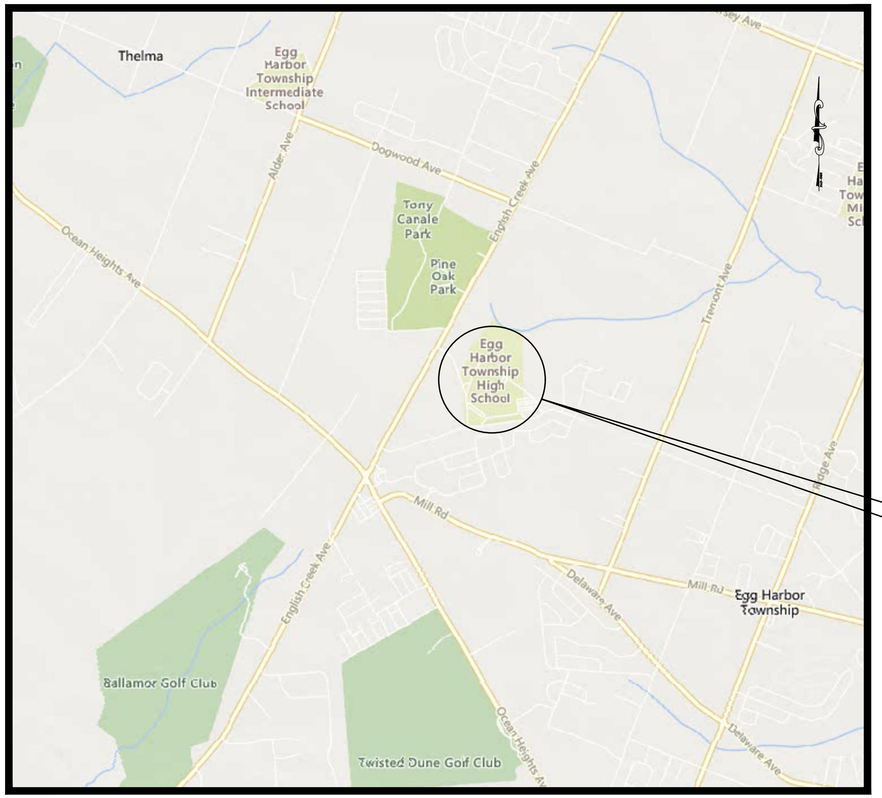
HIGH SCHOOL NATATORIUM
COLUMN REPAIRS

LIST OF UTILITIES AND EMERGENCY CONTACT INFORMATION	
FIRE DEPARTMENT:	**BARGAINTOWN FIRE COMPANY** 6550 MILL ROAD EGG HARBOR TOWNSHIP, NJ 08234 609-927-2387 **CARDIFF FIRE COMPANY** 6609 BLACK HORSE PIKE EGG HARBOR TOWNSHIP, NJ 08234 609-926-4070
POLICE DEPARTMENT:	**EGG HARBOR TOWNSHIP POLICE DEPARTMENT** 3515 BARGAINTOWN ROAD EGG HARBOR TOWNSHIP, NJ 08234 609-927-5200
WATER:	**NEW JERSEY AMERICAN WATER** 3215 FIRE ROAD EGG HARBOR TOWNSHIP, NJ 08234 609-677-4616
SANITARY SEWER:	**EGG HARBOR TOWNSHIP M.U.A.** 3515 BARGAINTOWN ROAD EGG HARBOR TOWNSHIP, NJ 08234 609-926-2671
ELECTRIC:	**ATLANTIC CITY ELECTRIC** 2542 FIRE ROAD EGG HARBOR TOWNSHIP, NJ 08234 609-645-4780
CABLE:	**COMCAST CABLE** 1846 NW BOULEVARD VINELAND, NJ 08360 800-934-6489
GAS:	**SOUTH JERSEY GAS** 111 NORTH FRANKLIN AVENUE PLEASANTVILLE, NJ 08232 1-800-561-9000
TELEPHONE:	**VERIZON ENGINEERING** 10 TANSBORO ROAD BERLIN, NJ 08009 856-306-8611
ATLANTIC COUNTY UTILITIES:	**ATLANTIC COUNTY UTILITIES AUTHORITY** 6700 DELILAH ROAD EGG HARBOR TOWNSHIP, NJ 08234 609-272-6935
ATLANTIC COUNTY ROADS:	**ATLANTIC COUNTY DEPARTMENT OF REGIONAL PLANNING AND DEVELOPMENT** PO BOX 719 - ROUTE 9 AND DOLPHIN AVENUE NORTHFIELD, NJ 08225 609-645-5898



PROJECT LOCATION MAP

SHEET INDEX	
SHEET #	DESCRIPTION
T-1	TITLE SHEET
S-1	STRUCTURAL COVER SHEET
S-2	EXISTING FOUNDATION, STEEL FRAMING AND FLOOR PLANS
S-3	PROPOSED FOUNDATION, STEEL FRAMING AND FLOOR PLAN
S-4	STRUCTURAL DETAILS

New Jersey One Call
CALL BEFORE YOU DIG
811 or 1-800-272-1000
ITS THE LAW

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT NJ ONE CALL PRIOR TO THE START OF CONSTRUCTION. CALL FOR MARKOUTS THREE (3) FULL BUSINESS DAYS IN ADVANCE AND BEGIN EXCAVATION WITHIN 10 DAYS. ALL CONTRACTORS ON-SITE MUST HAVE THEIR OWN MARKOUT.

EGG HARBOR TOWNSHIP
BOARD OF EDUCATION
ATLANTIC COUNTY, NEW JERSEY

MARCH 2024

REMINGTON & VERNICK **ENGINEERS**
845 NORTH MAIN STREET
PLEASANTVILLE, NJ 08232
(609) 645-7110, FAX (609) 645-7076
WEB ADDRESS : RVE.COM
Certification of Authorization: 24 GA 28003300
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DATE
JACQUELINE D. TROVATO
NJ PROFESSIONAL ENGINEER LIC. No. 51944

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

No.	REVISION	DATE	BY	CHK

TITLE SHEET

EGG HARBOR TOWNSHIP BOARD OF EDUACATION
HIGH SCHOOL NATATOTIUM
COLUMN REPAIRS
ATLANTIC COUNTY NEW JERSEY
EGG HARBOR TOWNSHIP

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
JG	RC	JT	AS NOTED
DATE : 01.2024		SHEET No. : T-1	
JOB No. : 0108C013			

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GENERAL NOTES

DESIGN CRITERIA

1. LIVE LOAD:
   - A. ROOF LIVE LOAD 25 PSF
   - B. MEZZANINE LIVE LOAD 100 PSF
2. DEAD LOAD:
   - A. STRUCTURAL AND BUILDING COMPONENTS SELF WEIGHT
3. WIND LOADING PER IBC 2021 – NEW JERSEY EDITION:
   - A. BASIC WIND VELOCITY (V): 132 MPH
   - B. EXPOSURE CATEGORY: C
   - C. RISK CATEGORY: III
4. SEISMIC LOADING PER IBC 2021 – NEW JERSEY EDITION:
   - A. RESPONSE ACCELERATOR:
     $S_S = 0.123$ $S_{DS} = 0.131$
     $S_I = 0.04$ $S_{DI} = 0.064$
   - B. SEISMIC DESIGN CATEGORY: A
   - C. SEISMIC SITE CLASSIFICATION: D
   - D. IMPORTANCE FACTOR I_E: 1.25
5. SNOW LOADING PER IBC 2021 – NEW JERSEY EDITION:
   - A. GROUND SNOW LOAD: 20 PSF
   - B. IMPORTANCE FACTOR: 1.1

FOUNDATIONS

1. ALL EXISTING FILL MATERIALS, CONSISTING OF GRAVEL, BRICK FRAGMENTS, CONCRETE CHIPS, WOOD CHIPS, AND DEMOLITION DEBRIS SHALL BE REMOVED IN THE REGIONS OF ALL FOUNDATIONS AND UNDER AREAS OF SLAB–ON–GRADE.
2. THE SLAB ON GRADE SHALL REST ON A MINIMUM OF 6 INCHES OF COMPACTED GRANULAR FILL.
3. PROOF ROLL SLAB SUBGRADE UNDER THE DIRECTION OF THE INSPECTION AGENCY. REMOVE ALL UNSUITABLE AREAS AND REPLACE WITH COMPACTED STRUCTURAL FILL MATERIALS. COMPACT FILL TO AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE ASTM D 1557 MODIFIED PROCTOR TEST.
4. THE BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE 2'–6" MINIMUM BELOW FINISHED GRADE.
5. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
6. ALL ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.
7. BACKFILLING AGAINST WALLS SHALL NOT BE DONE UNTIL CONCRETE HAS BEEN CURED TO ATTAIN SUFFICIENT STRENGTH (7 DAYS MINIMUM) AND WALLS ARE PROPERLY SHORED AND/OR BRACED. BACKFILL FOUNDATION WALLS WITH EARTH ON BOTH SIDES OF THE WALL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 1'–6" FROM OTHER SIDE.
8. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER.
9. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER.
10. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

FOUNDATION CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT STRUCTURAL CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
   - A. FOOTINGS 4,000 PSI
   - B. WALLS AND PIERS 4,000 PSI
   - C. SLAB–ON–GRADE 4,000 PSI
2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE ENGINEER.
3. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A 615, GRADE 60. LAP BARS 40 DIAMETER UNLESS OTHERWISE SHOWN. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
5. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP OF THE OUTERMOST CROSS WIRES OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNLESS NOTED OTHERWISE.
6. FOR ALL SLABS ON GRADE WHERE NOT OTHERWISE SPECIFIED, USE 6x6–W2.9xW2.9 W.W.F.
7. MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 1–INCH FOR INTERIOR FACE OF WALLS, 2 INCHES FOR EXTERIOR FACE OF WALLS, 3 INCHES FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE DEPOSITED AGAINST GROUND, 2 INCHES FOR CONCRETE PERMANENTLY EXPOSED TO EARTH OR WEATHER.
8. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAY'S POUR JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT DRAWING INDICATING CONSTRUCTION JOINT LOCATIONS FOR APPROVAL.
9. NO CONCRETE SHALL BE PLACED IN WATER.
10. ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN ON OR AS REQUIRED BY VARIOUS TRADES.
11. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.

SUPERSTRUCTURE CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT STRUCTURAL CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:
   - A. COLUMNS 4,000 PSI
   - B. SLABS, BEAM 4,000 PSI
   - C. WALLS 4,000 PSI
2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE ENGINEER.
3. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A 615, GRADE 60. LAP BARS 40 DIAMETER UNLESS OTHERWISE SHOWN. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
4. MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 3/4–INCH FOR SLABS, 1–INCH FOR INTERIOR FACE OF WALLS, 2–INCH FOR EXTERIOR FACE OF WALLS, 1 1/2–INCH FOR BEAM STIRRUPS AND COLUMN TIES, 2–INCH FOR VERTICAL COLUMN REINFORCING.
5. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAY'S POUR JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT DRAWING INDICATING CONSTRUCTION JOINT LOCATIONS FOR APPROVAL.
6. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT APPROVAL FROM THE ENGINEER. NO SLEEVES SHALL BE PLACED HORIZONTALLY OR VERTICALLY IN BEAMS OR JOISTS, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT APPROVAL FROM THE ENGINEER.
7. CONTRACTOR SHALL SUBMIT A COORDINATED DRAWING SHOWING ALL SLEEVES, OPENINGS, BLOCKOUTS, ETC., AS REQUIRED BY ALL TRADES, FOR APPROVAL, PRIOR TO PLACING CONCRETE IN THAT AREA.
8. ALL SLABS SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN HEREIN OR ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
10. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP BETWEEN OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNLESS OTHERWISE SHOWN ON DRAWINGS.
11. FOR ALL SLABS WHERE NOT OTHERWISE SPECIFIED USE STYLE 6x6–W2.9xW2.9 W.W.F.
12. FOR ADDITIONAL CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.

MASONRY

1. HOLLOW CONCRETE MASONRY UNITS ASTM C90, GRADE N, TYPE 1 NORMAL WEIGHT 1900 PSI NET AREA COMPRESSIVE.
2. MORTAR SHALL BE ASTM C270, TYPE S FOR ALL REINFORCED MASONRY, EXTERIOR WALLS AND WALLS BELOW GRADE.
3. GROUT SHALL BE ASTM C476, 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
4. REINFORCING STEEL GRADE 60 REINFORCING BARS.
5. HORIZONTAL JOINT REINFORCEMENT ASTM A951.
6. STRENGTH OF MASONRY ASSEMBLY $f'm = 1{,}500$ PSI.
7. CONSTRUCTION SHALL CONFORM TO SPECIFICATIONS FOR MASONRY STRUCTURES, ACI 530.1
8. REINFORCING METAL TIES AND ANCHORS SHALL BE PROTECTED FROM CONTACT WITH SOIL AND BEFORE BEING PLACED SHALL BE FREE FROM LOOSE RUST AND OTHER COATINGS THAT WILL DESTROY OR REDUCE THE BOND. MINIMUM LAP SHALL BE 48 BAR DIAMETERS FOR REBAR AND 6" FOR JOINT REINFORCEMENT.
9. SHOP DRAWINGS SHOWING ALL BAR REINFORCING IN ELEVATION (1/8" TO 1'–0" MINIMUM SCALE) SHALL BE SUBMITTED AND REVIEWED PRIOR TO CONSTRUCTION.
10. ALL MASONRY WALLS TO HAVE 9 GAGE TRUSS TYPE HORIZONTAL REINFORCEMENT AT 16 INCHES ON CENTER.
11. MASONRY UNITS SHALL BE STEAM CURED, A MINIMUM OF 28 DAYS AT THE TIME OF DELIVERY AND CONTINUOUSLY PROTECTED FROM EXPOSURE TO RAIN OR OTHER SOURCES OF WATER FROM TIME OF CASTING TO FINAL PLACEMENT IN WALL. MASONRY UNITS SHALL BE DRY, FREE FROM SOIL, ICE AND FROST WHEN LAID IN WALL. SEE ACI 530.1 FOR COLD AND HOT WEATHER CONSTRUCTION AND WALL PROTECTION REQUIREMENTS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, LATEST EDITION:
   - A. STRUCTURAL STEEL SHAPES ASTM A992 HAVING A MINIMUM YIELD STRENGTH OF 50 KSI.
   - B. MISC SHAPES, BARS, AND PLATES – A 36 HAVING A MINIMUM YIELD STRENGTH OF 36 KS.
   - C. ROUND PIPE – A 53, GRADE B HAVING A MINIMUM YIELD STRENGTH OF 35 KS.
   - D. SQUARE AND RECTANGULAR TUBING – A 500, GRADE B HAVING A MINIMUM YIELD STRENGTH OF 46 KSI.
2. BOLTS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS: HIGH STRENGTH BOLTS–A 325 OR A 490; ANCHOR BOLTS–F1554; STANDARD FASTENERS–A 307.
3. ALL WELDING ELECTRODES SHALL CONFORM TO THE E–70 SERIES OF THE SPECIFICATION FOR MILD STEEL ARC WELDING ELECTRODES ASTM A 233.
4. ALL BOLTS SHALL BE 3/4–INCH DIAMETER, OPEN HOLES 13/16–INCH DIAMETER, UNLESS OTHERWISE SHOWN OR NOTED.
5. ALL SHOP CONNECTIONS MAY BE HIGH STRENGTH BOLTED OR WELDED.
6. ALL FIELD CONNECTIONS MAY BE HIGH STRENGTH BOLTED EXCEPT WHERE DETAILS INDICATE WELDING.
7. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS.
8. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE FULLY PRE–TENSIONED UNLESS NOTED OTHERWISE.
9. ALL HIGH STRENGTH BOLTS IN OVERSIZED HOLES SHALL BE SLIP CRITICAL.
10. ALL HIGH STRENGTH BOLTED CONNECTIONS USED FOR KICKERS AND BRACING MEMBERS WHICH ARE FABRICATED WITH SLOTTED HOLES SHALL USE SLIP–CRITICAL BOLTS. IF STANDARD HOLES ARE USED, BOLTS SHALL BE FULLY PRE–TENSIONED.
11. NO PENETRATIONS ARE PERMITTED THROUGH STRUCTURAL STEEL MEMBERS UNLESS INDICATED ON STRUCTURAL DRAWINGS OR APPROVED BY ENGINEER.
12. APPROVAL OF THE ENGINEER SHALL BE MANDATORY FOR THE USE OF CUTTING TORCH IN THE FIELD.
13. DURING ERECTION, STRUCTURAL STEEL FRAME SHALL BE ADEQUATELY BRACED IN ALL LINES, TWO WAYS.
14. CONNECTIONS SHALL BE DESIGNED PER AISC TO CARRY FULL CAPACITY OF UNIFORMLY LOADED MEMBER, UNLESS NOTED OTHERWISE. REACTIONS GREATER THAN FULL MEMBER CAPACITY ARE INDICATED THUS (60K) ON PLAN.
15. ALL GROUT UNDER STEEL PLATES SHALL BE NON–SHRINK "PRE–MIX" TYPE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
16. FOR ALL MISCELLANEOUS STEEL CONSTRUCTION NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
17. EXPANSION BOLTS SHALL BE 3/4–INCH DIAMETER KWIK BOLT ANCHORS AS MANUFACTURED BY HILTI OR APPROVED EQUIVALENT AS APPROVED BY THE ENGINEER, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
18. ALL STEEL COLUMN BASE PLATES SHALL INCLUDE LEVELING PLATES AS REQUIRED FOR CONSTRUCTION.
19. ALL EXPOSED / EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

DEMOLITION NOTES

1. REMOVE EXISTING CONSTRUCTION AS SHOWN ON PLANS. SEE SECTIONS AND DETAILS FOR EXTENT OF STRUCTURE TO BE REMOVED.
2. EXISTING STRUCTURAL STEEL FRAMING SHALL REMAIN UNLESS SPECIFICALLY NOTED ON PLAN TO BE REMOVED.
3. CONCRETE ENCASEMENT AROUND REMAINING STEEL WILL REMAIN, UNLESS NOTED OTHERWISE.
4. IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, NOTIFY ENGINEER BEFORE PROCEEDING WITH DEMOLITION.

EXISTING CONSTRUCTION

1. ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER.

MISCELLANEOUS

1. CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONDITIONS NOT AS ASSUMED; HE SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR SAME.
2. CONTRACTOR SHALL COORDINATE WITH ALL RELATED TRADES FOR DETAILING, FABRICATION, AND ERECTION PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.
3. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. REQUIREMENTS. DISCREPANCIES AND/OR INTERFERENCE SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. GENERAL CONTRACTOR TO PROVIDE APPROPRIATE NUMBER OF COPIES OF ONE COMPLETE COORDINATED DRAWING SHOWING ALL SLEEVES, CONDUIT BOXOUT, DUCT OPENINGS, ETC. AS REQUIRED FOR ALL TRADES FOR ENGINEER'S APPROVAL. THIS SHALL BE DONE A MINIMUM OF TWO WEEKS PRIOR TO POURING AFFECTED SLABS, COLUMNS, OR FOOTINGS.
5. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR OTHER APPROVAL FROM THE ENGINEER.
6. SUPPORT DETAILS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS BASED UPON AVAILABLE INFORMATION OF MANUFACTURER. CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ACTUAL EQUIPMENT AND SHALL PROVIDE ANY ADDITIONAL REQUIRED FRAMING.

ABBREVIATIONS

E.F.	EACH FACE
WF1	WALL FOOTING
CMU	CONCRETE MASONRY UNIT
V.I.F.	VERIFY IN THE FIELD
O.C.	ON CENTER
E.W.	EACH WAY
T&B	TOP & BOTTOM
AL	ALUMINUM
CS	CARBON STEEL
SS	STAINLESS STEEL
CL	CENTER LINE
GALV.	GALVANIZED
T.O.M.	TOP OF MASONRY

STRUCTURAL DRAWING LIST

RVE 1901
REMINGTON & VERNICK ENGINEERS
845 NORTH MAIN STREET
PLEASANTVILLE, NJ 08232
(609) 645-7110, FAX (609) 645-7076
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DATE:
JACQUELINE D. TROVATO
NJ PROFESSIONAL ENGINEER LIC. No. 51944
STATE OF NEW JERSEY JACQUELINE D. TROVATO No. GE51944 LICENSED PROFESSIONAL ENGINEER

No.	REVISION	DATE	BY	CHK

STRUCTURAL COVER SHEET

EGG HARBOR TOWNSHIP BOARD OF EDUACATION
HIGH SCHOOL NATATOTIUM
COLUMN REPAIRS
EGG HARBOR TOWNSHIP ATLANTIC COUNTY NEW JERSEY

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JOB No. : 0108C013
SHEET No. : S-1

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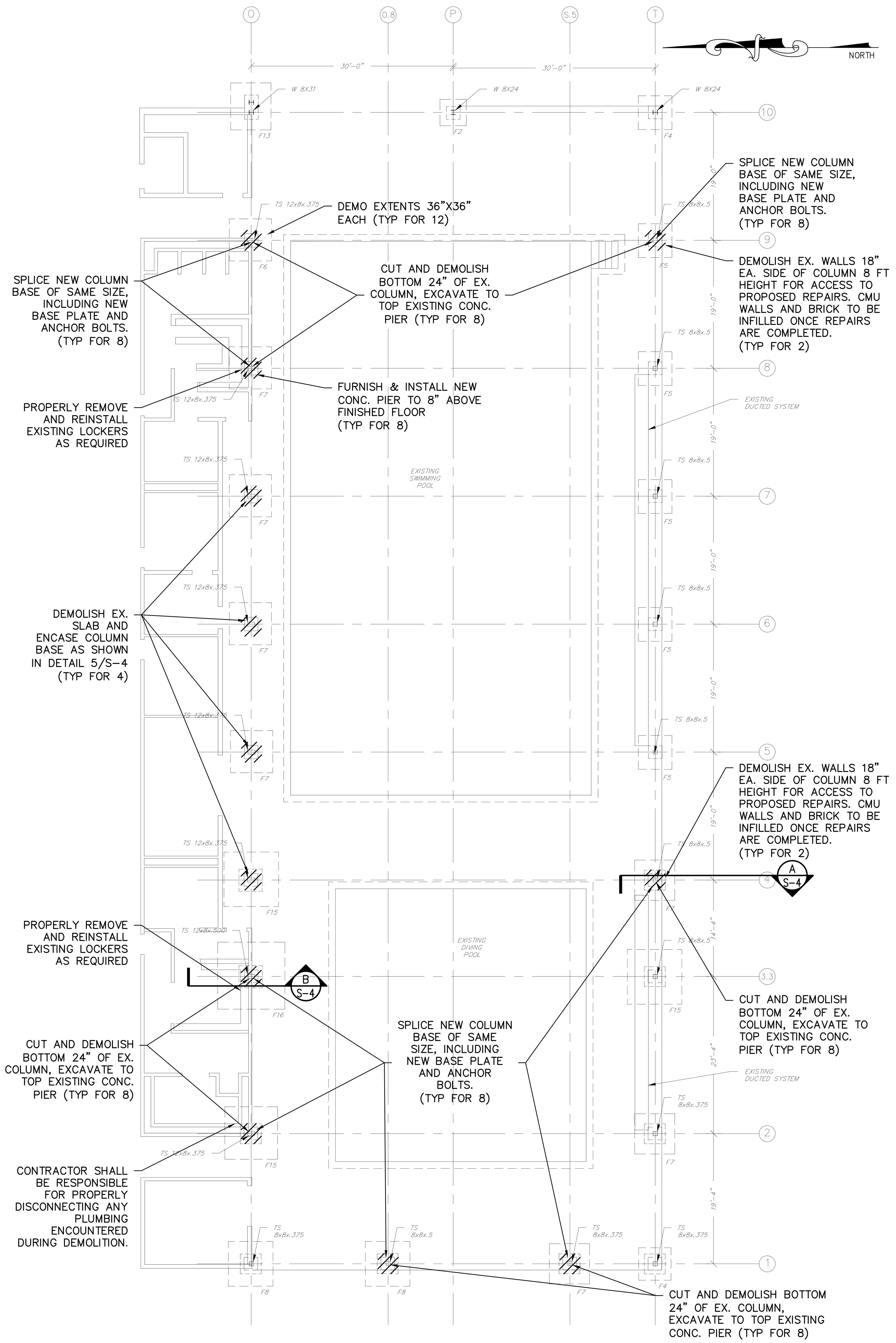
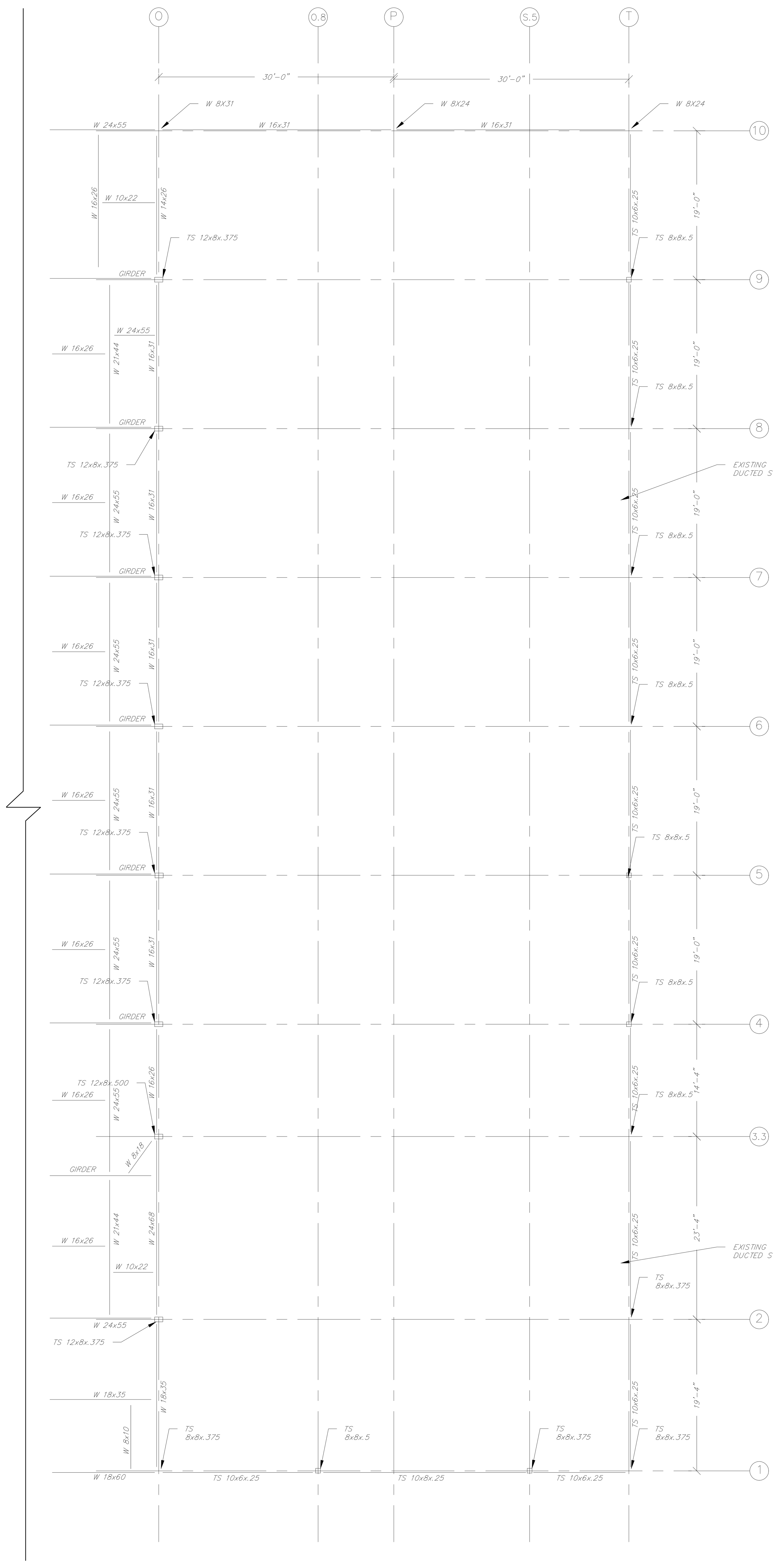


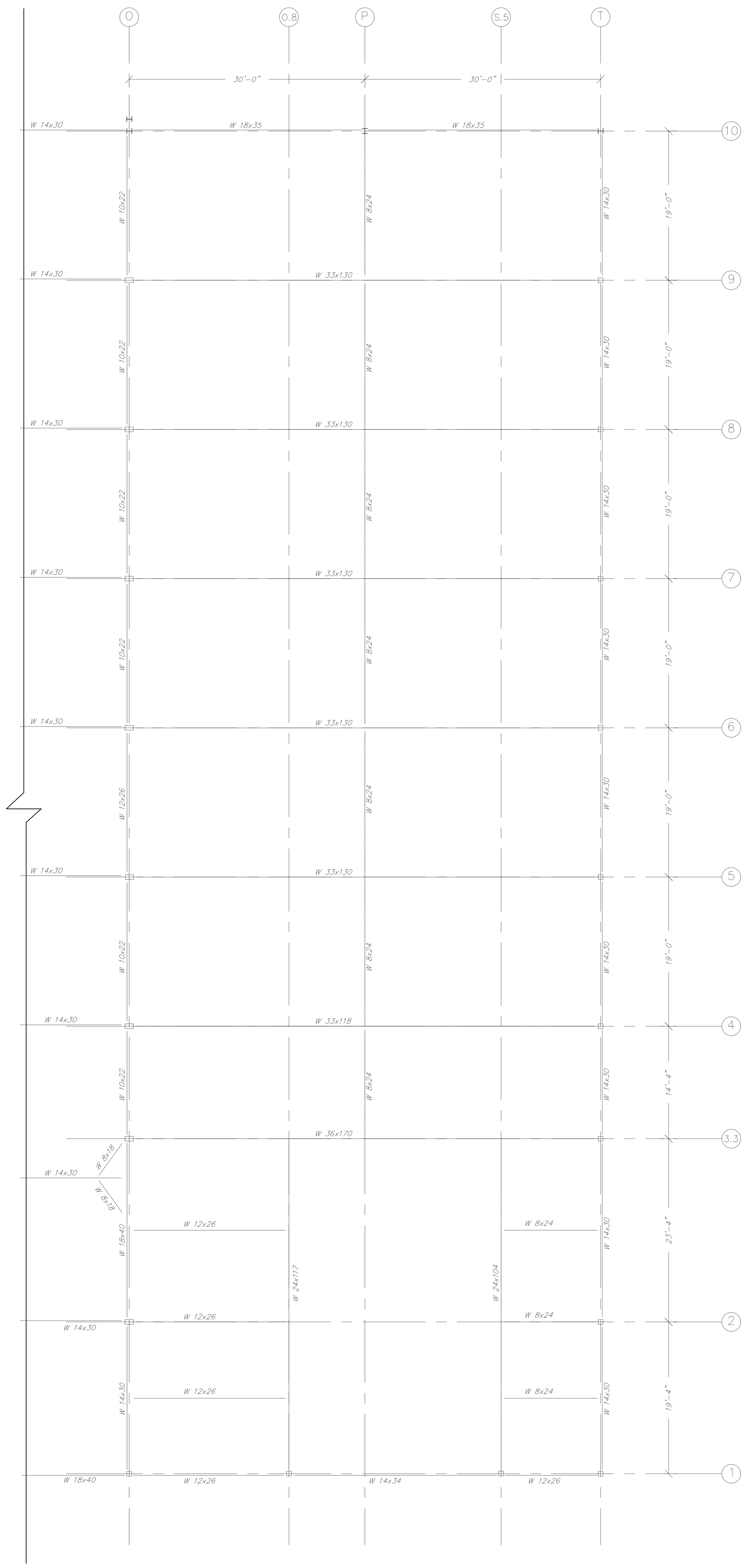
EXISTING FOUNDATION FLOOR PLAN / DEMOLITION PLAN

SCALE: 3/32"=1'



EXISTING POOL LEVEL AND MEZZANINE STEEL FRAMING PLAN

SCALE: 3/32"=1'



EXISTING ROOF STEEL FRAMING PLAN

SCALE: 3/32"=1'

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NJ PROFESSIONAL ENGINEER LIC. No. 51944

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

No	REVISION	DATE	BY	CHK

EXISTING FOUNDATION, STEEL FRAMING AND FLOOR PLANS

EGG HARBOR TOWNSHIP BOARD OF EDUACATION

HIGH SCHOOL NATATOTIUM COLUMN REPAIRS

EGG HARBOR TOWNSHIP ATLANTIC COUNTY NEW JERSEY

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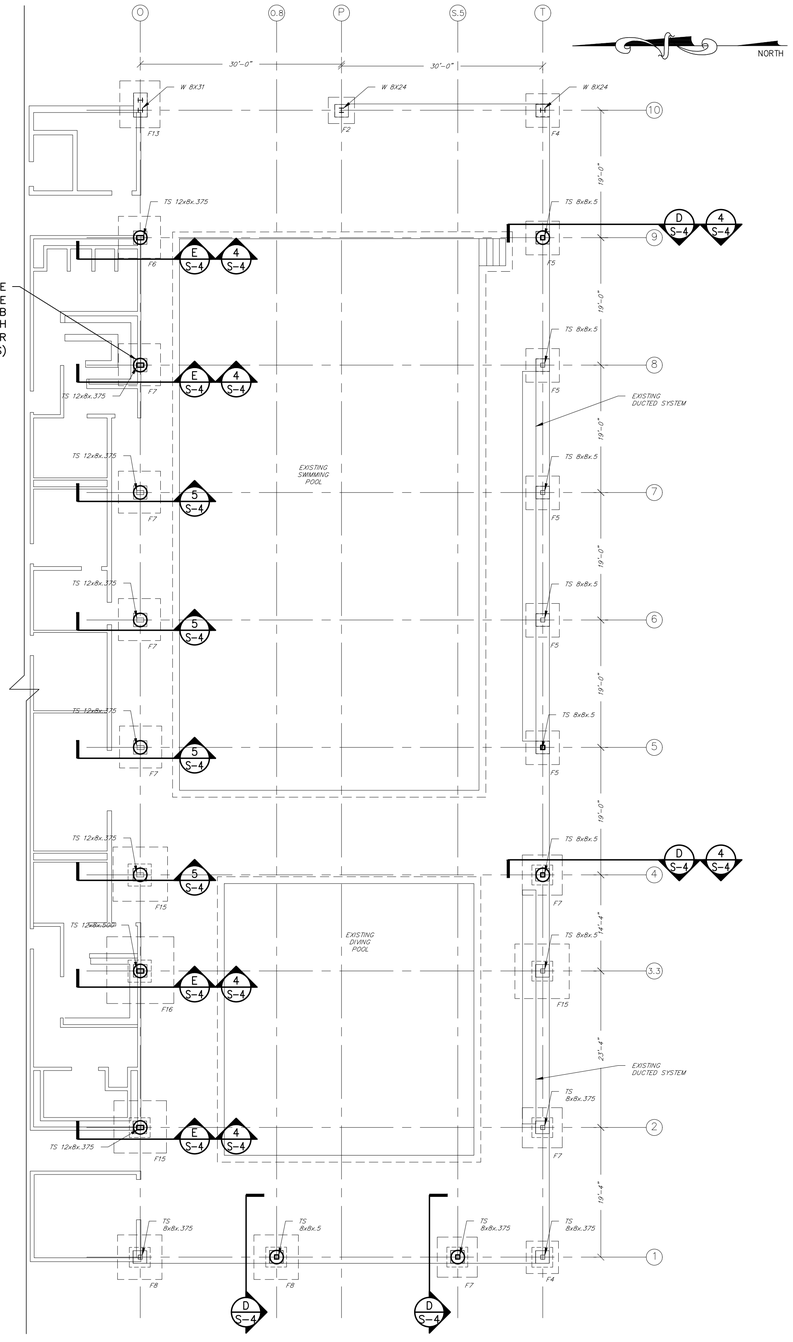
DATE: 01.2024		SHEET No.: S-2	
JOB No.: 0108C013			



FURNISH AND INSTALL 4" CONCRETE SLAB W/ WWF 6x6–W2.9xW2.9 WHERE PREVIOUSLY DEMOLISHED. NEW SLAB SHALL BE DOWELED INTO EXISTING WITH #3 BARS @ 24" O.C. ON ALL FOUR SIDES (TYP FOR 12 LOCATIONS)

PROPOSED FOUNDATION AND CONCRETE PIER FLOOR PLAN

SCALE: 3/32"=1'

GENERAL NOTES:

1. CONTRACTOR IS TO PROPERLY AND CAREFULLY REMOVE STORAGE LOCKERS, ELECTRICAL CONDUITS/EQUIPMENT, AND APPURTENANCESS REQUIRED FOR CONSTRUCTION. ALL REMOVED ITEMS SHALL BE PROPERLY REINSTALLED. AFTER CONSTRUCTION IS COMPLETE.
2. WHERE COLUMNS ARE BEING ENCASED, CONTRACTOR IS TO PROPERLY CLEAN THE COLUMNS OF ALL RUST AND EXISTING PAINT, FROM TOP OF EXISTING CONCRETE PIER TO 24" ABOVE EXISTING FINISHED FLOOR. CONTRACTOR SHALL THEN PRIME EXISTING STEEL COLUMN BASE AND COAT WITH SIKADUR 32 HI–MOD, OR EQUAL, FOR PROPER ADHESION TO NEW CONCRETE PEDESTAL.
3. ALL NEW CONCRETE PEDESTALS ARE TO BE COATED WITH SIKATOP SEAL 107, OR APPROVED EQUAL (TYP FOR 12).
4. NEW CMU WALLS SHALL MAINTAIN THE SAME VERTICAL AND HORIZONTAL STEEL REINFORCMENT AS THE REMOVED PORTIONS OF THE WALL.

EXISTING FOOTING SCHEDULE

MARK	WIDTH	LENGTH	OVERALL THICKNESS	BOTTOM REINFORCEMENT	
				LONG WAY	SHORT WAY
F1	3'–0"	3'–0"	12"	4 #4	4 #4
F2	3'–6"	3'–6"	12"	5 #4	5 #4
F3	4'–0"	4'–0"	12"	6 #4	6 #4
F4	4'–6"	4'–6"	12"	7 #4	7 #4
F5	5'–0"	5'–0"	12"	8 #4	8 #4
F6	5'–6"	5'–6"	12"	10 #4	10 #4
F7	6'–0"	6'–0"	16"	8 #5	8 #5
F8	6'–6"	6'–6"	16"	9 #5	9 #5
F13	7'–0"	7'–0"	16"	10 #5	10 #5
F15	8'–0"	8'–0"	1'–8"	10 #5	10 #5
F16	10'–0"	10'–0"	1'–8"	11 #6	11 #6

COLUMN SCHEDULE

COL GRID	SPLICE	CONCRETE COLUMN ENCASEMENT	DETAIL REF.
O–9	X		4/S–4 & E/S–4
O–8	X		4/S–4 & E/S–4
O–7		X	5/S–4
O–6		X	5/S–4
O–5		X	5/S–4
O–4		X	5/S–4
O–3.3	X		4/S–4 & E/S–4
O–2	X		4/S–4 & E/S–4
O.8–1	X		4/S–4 & E/S–4
S.5–1	X		4/S–4 & E/S–4
T–9	X		4/S–4 & E/S–4
T–4	X		4/S–4 & E/S–4

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DATE: JACQUELINE D. TROVATO
NJ PROFESSIONAL ENGINEER LIC. No. 51944

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

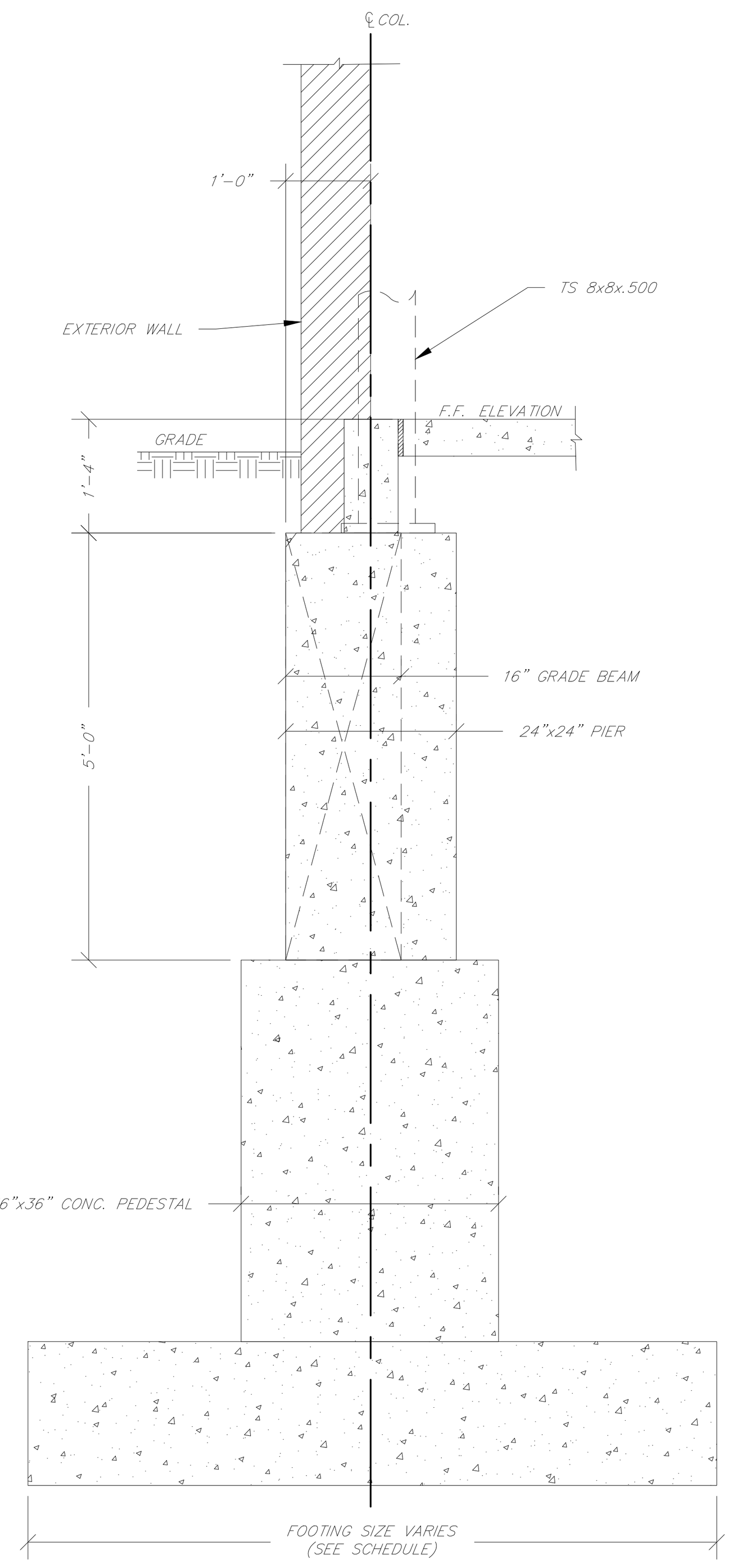
No.	REVISION	DATE	BY	CHK

PROPOSED FOUNDATION, STEEL FRAMING FLOOR PLAN

EGG HARBOR TOWNSHIP BOARD OF EDUCATION
HIGH SCHOOL NATATORIUM
COLUMN REPAIRS
EGG HARBOR TOWNSHIP ATLANTIC COUNTY NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
JG	RC	JT	AS NOTED
DATE : 01.2024		SHEET No. : S–3	
JOB No. : 0108C013			

P:\JOBS Projects\Atlantic Co\Egg Harbor Twp\0108C013 - Egg Harbor High Sch Pool\0108C013-S-101.dwg, 3/29/2024 8:51:11 AM



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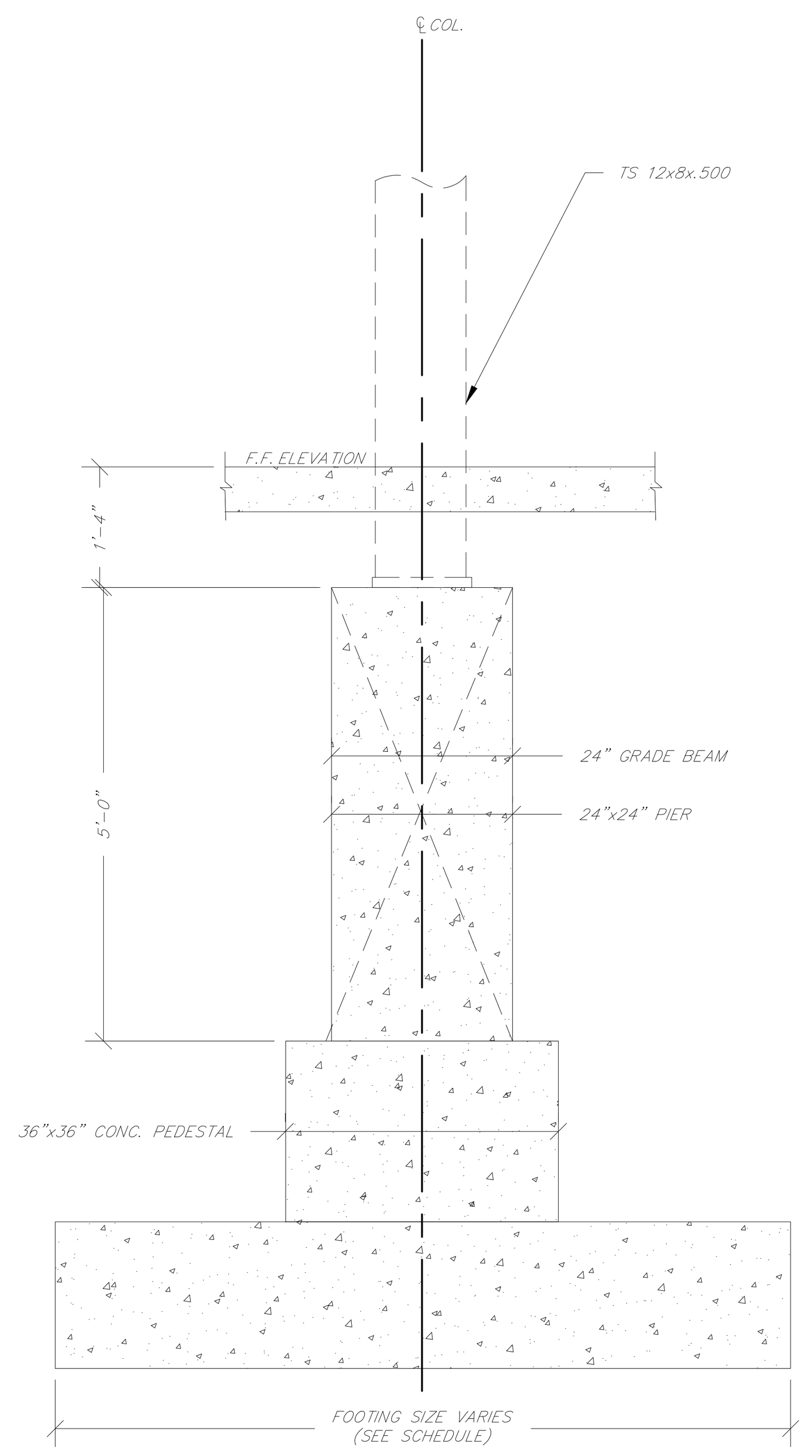

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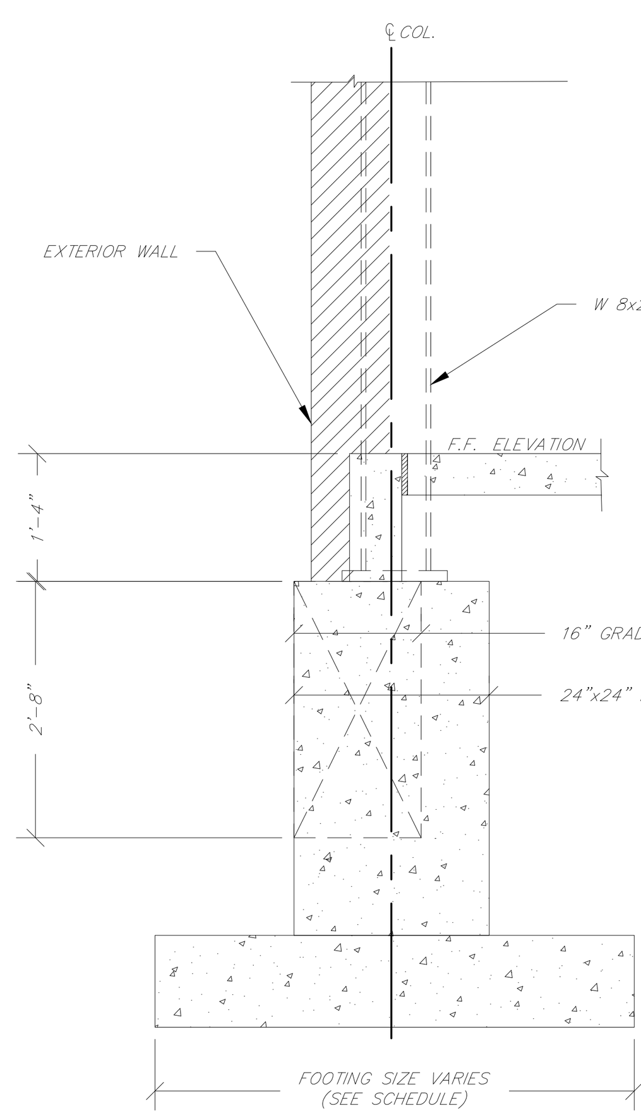

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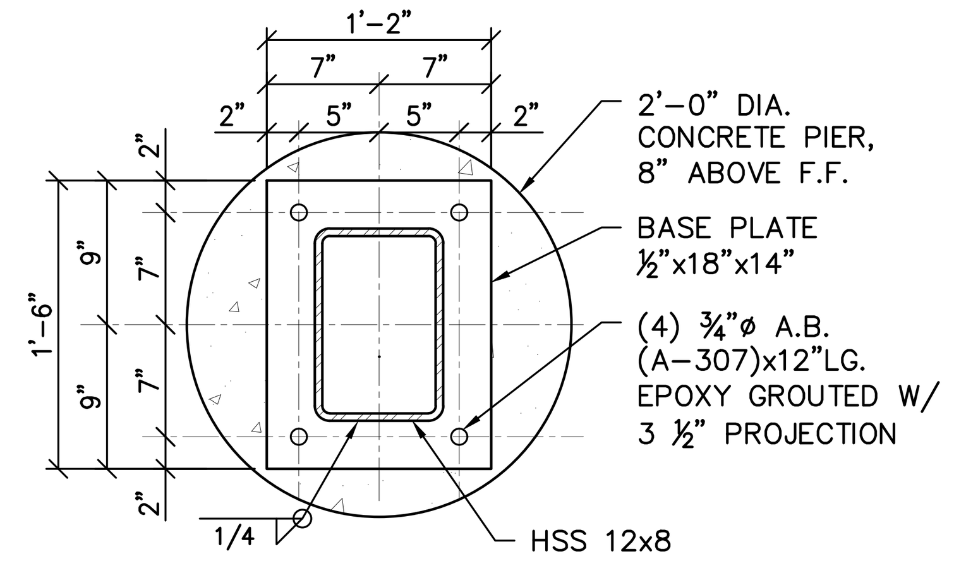

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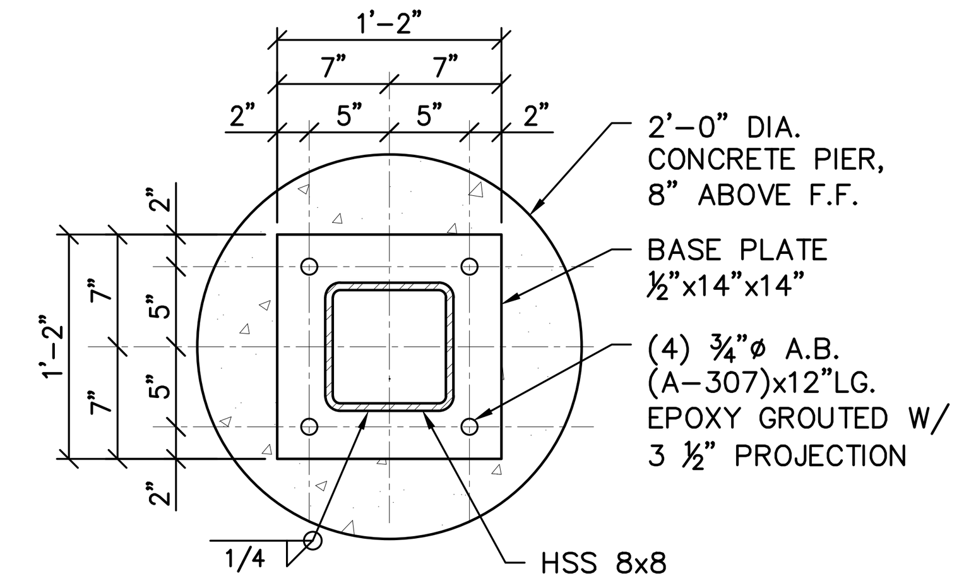

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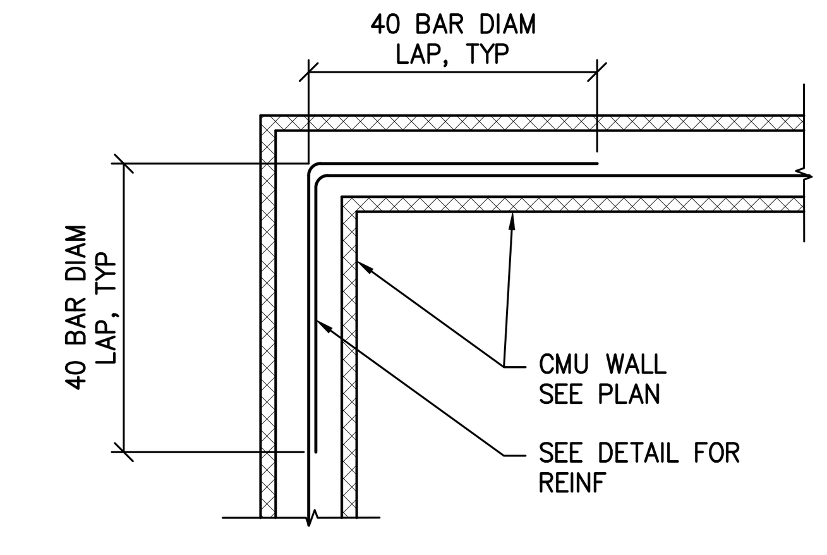

CMU CORNER DETAIL
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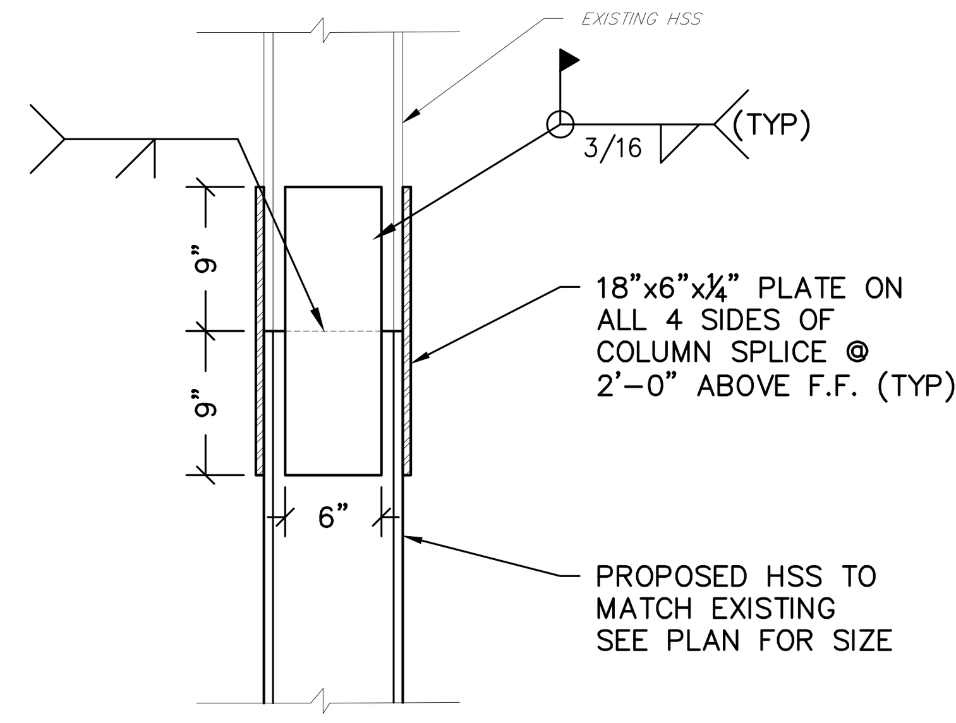

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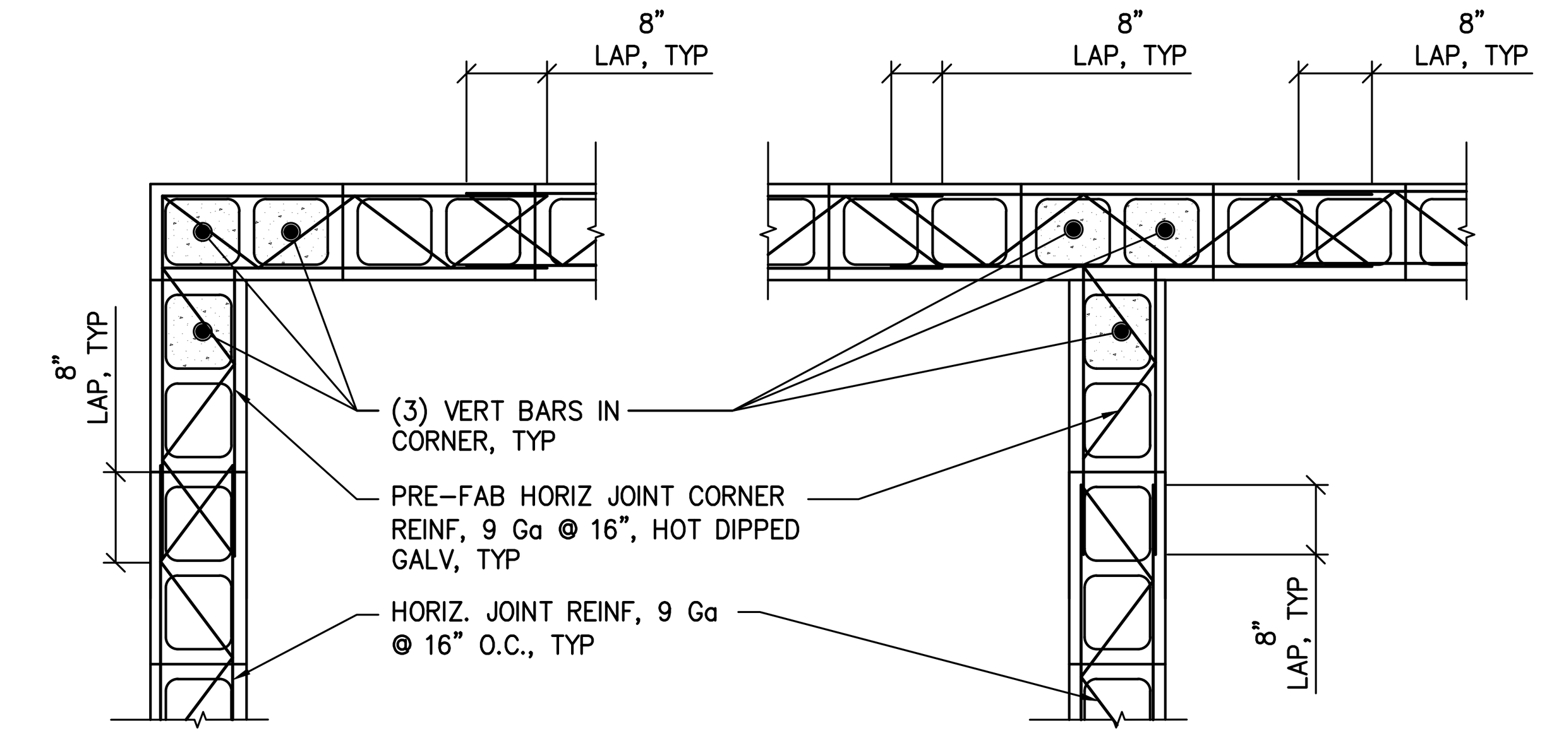

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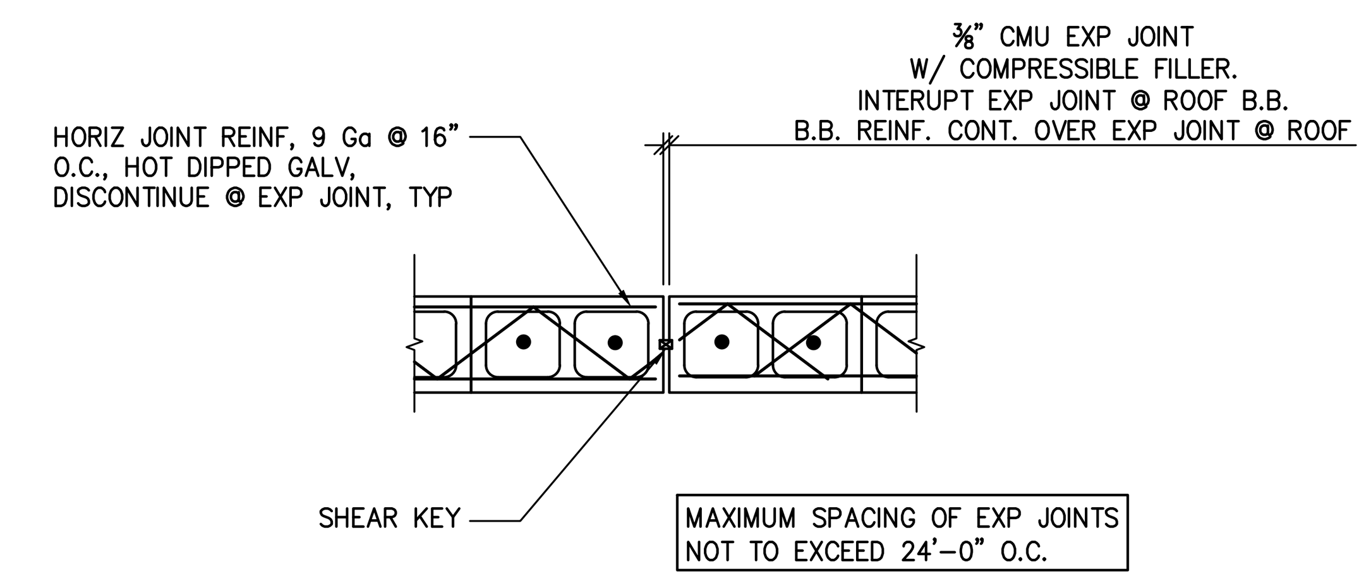

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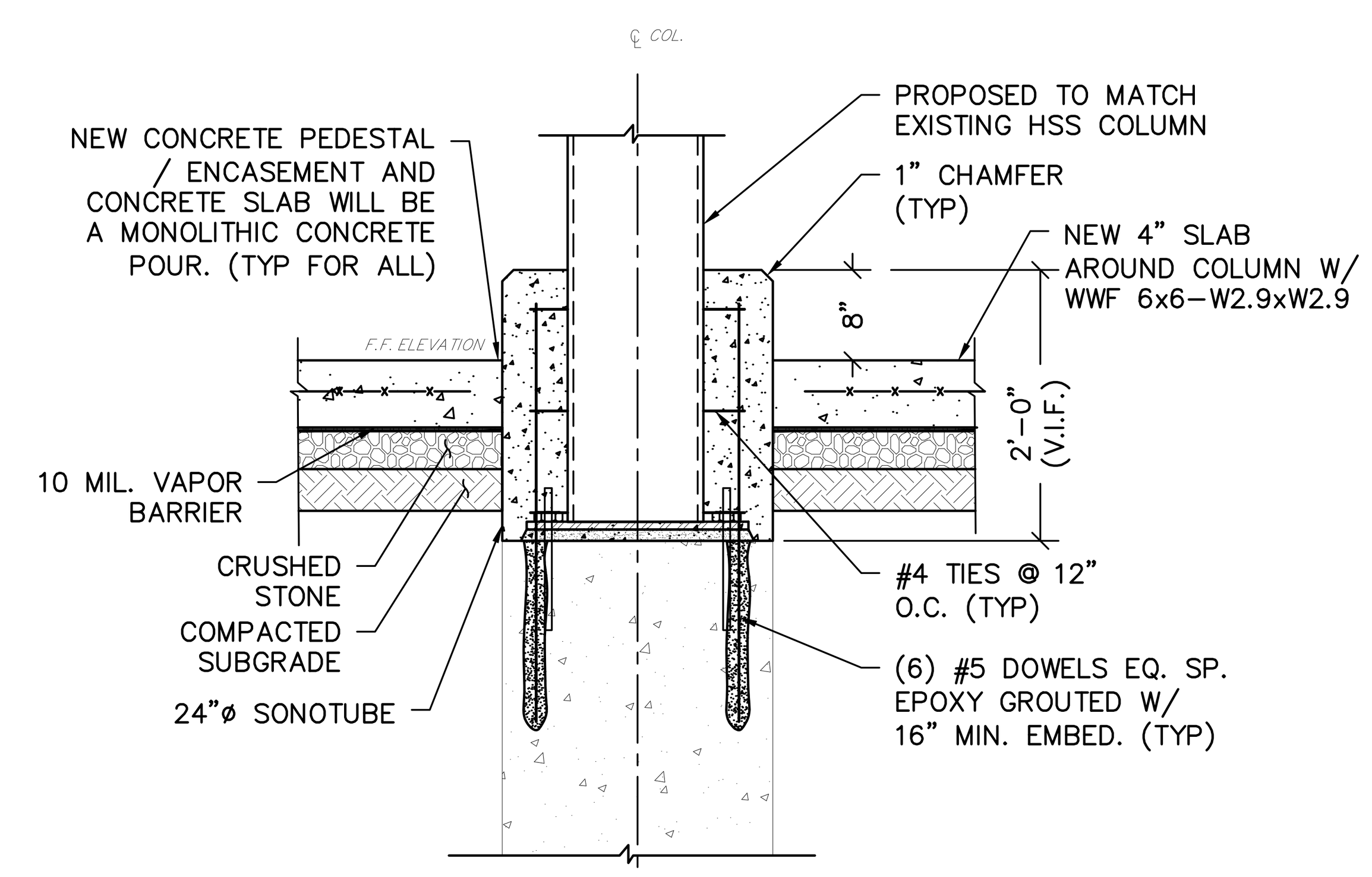
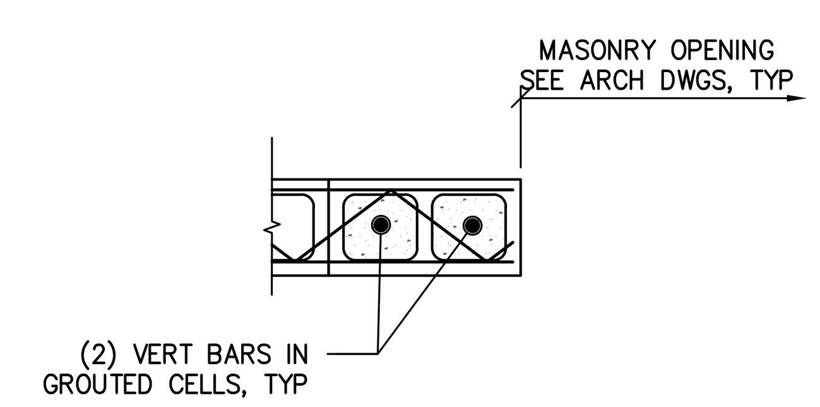


COLUMN PIER DETAIL SPLICED COLUMN 4 S-4
N.T.S



TYPICAL CMU REINF. @ MASONRY OPENING DETAIL
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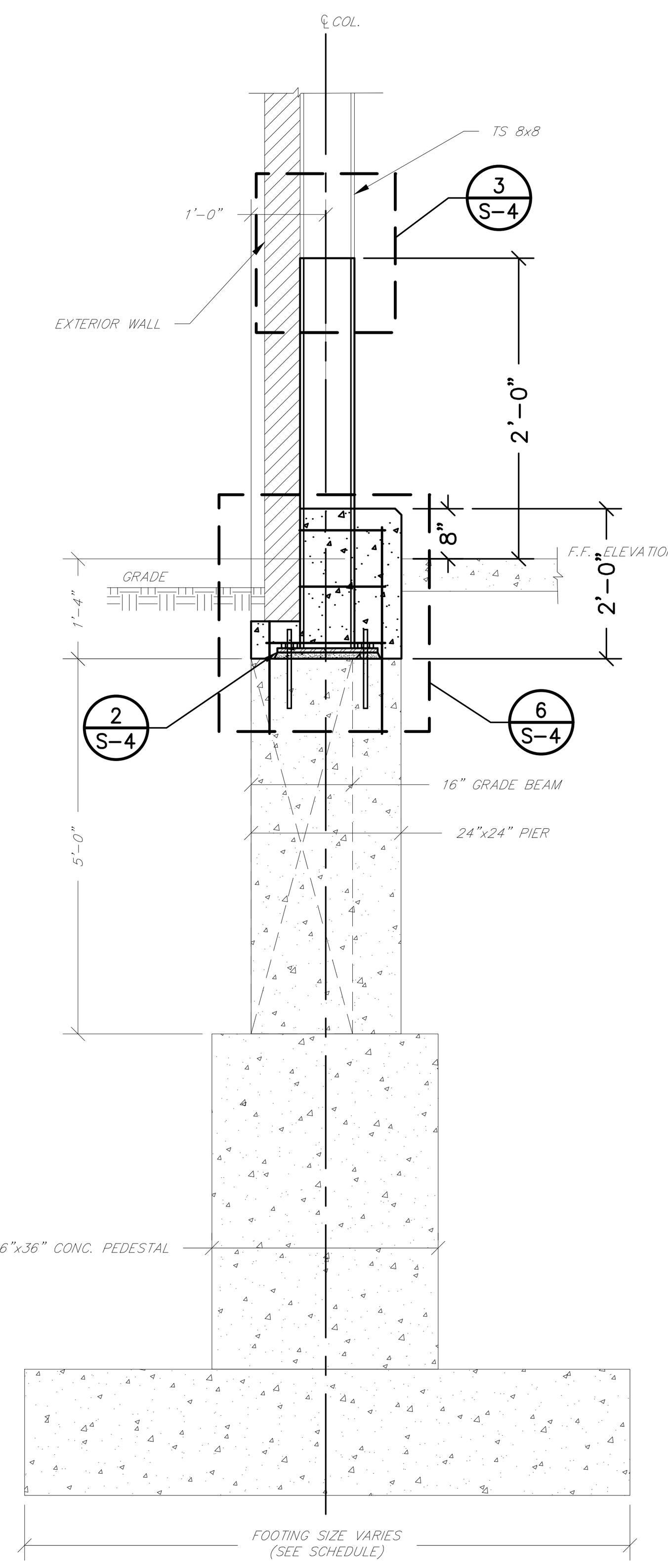
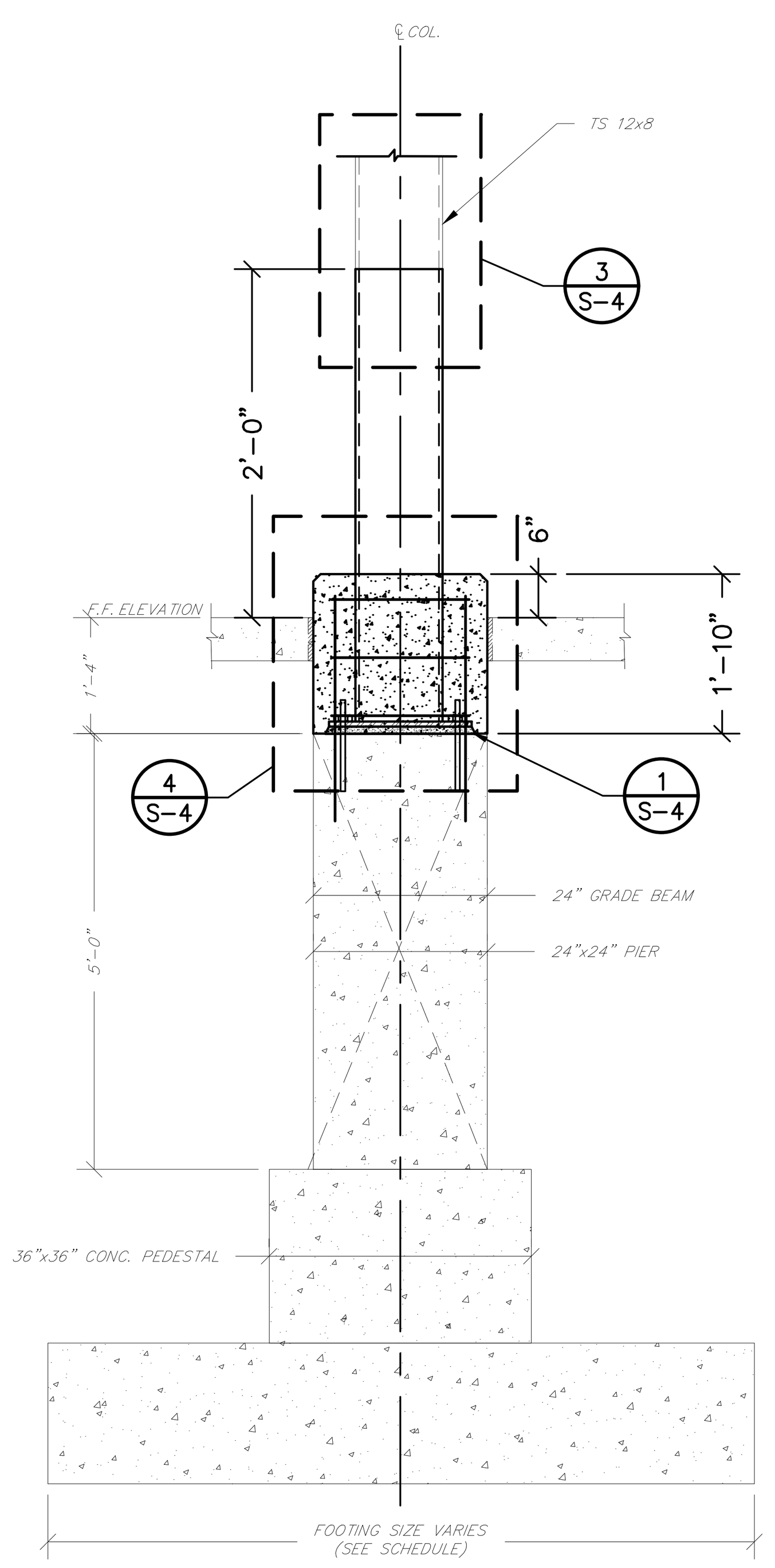


D S-4 PROPOSED SECTION
SCALE: 1/2"=1'



E S-4 PROPOSED SECTION
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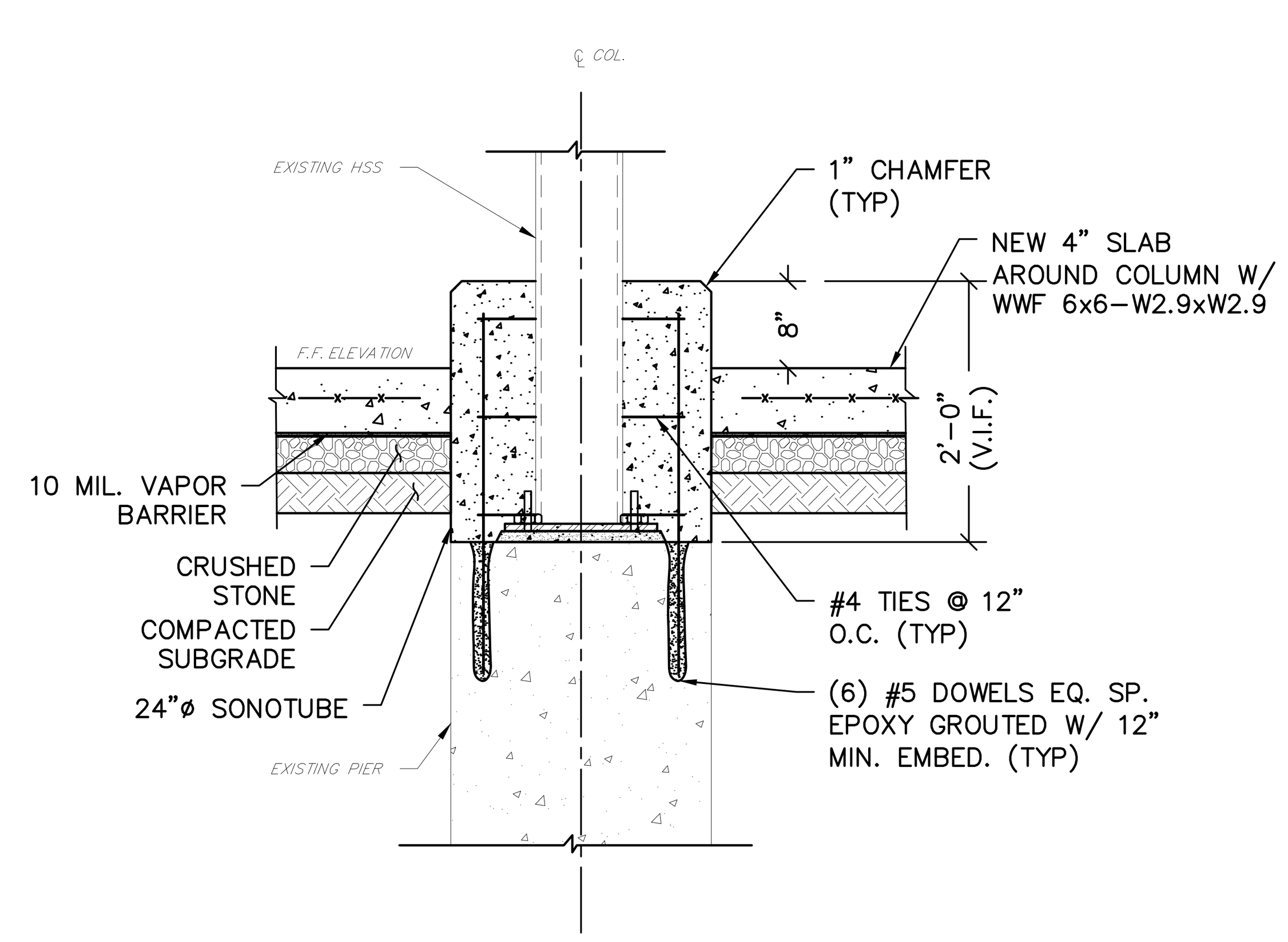
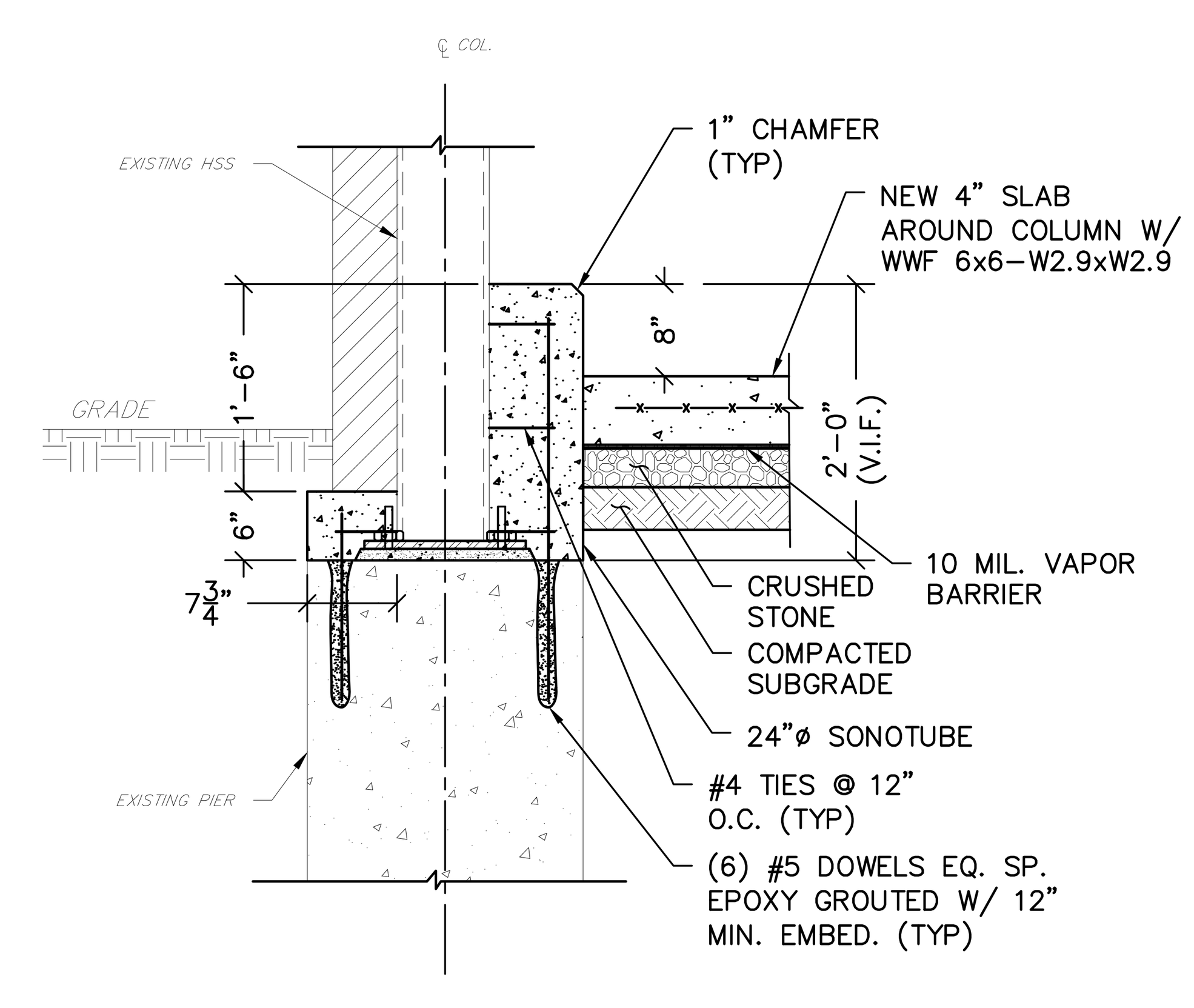


ENCASED COLUMN BASE DETAIL 5 S-4
N.T.S



COLUMN PIER DETAIL SPLICED COLUMN 6 S-4
N.T.S

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No	REVISION	DATE	BY	CHK

STRUCTURAL DETAILS

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HIGH SCHOOL NATATOTIUM
COLUMN REPAIRS
EGG HARBOR TOWNSHIP — ATLANTIC COUNTY — NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
JG	RC	JT	AS NOTED

DATE:	SHEET No.:
01.2024	S-4
JOB No.: 0108C013	

0108C013-Egg Harbor HS Pool Column Replacement. - 03.29.2024

Final Audit Report 2024-03-29

Created:	2024-03-29
By:	Nicholas DiCosmo (nicholas.dicosmo@rve.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAxCoMxKYwOJQryQNIG-Wau1iLIES18aKk

"0108C013-Egg Harbor HS Pool Column Replacement. - 03.29.2024" History

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