

**STRUCTURAL NOTES:**

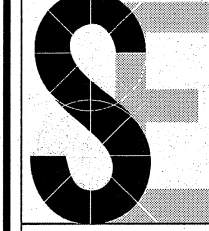
- 1.0 DESIGN
- 1.1 DESIGN PER 2020 FLORIDA BUILDING CODE, BUILDING, 7TH EDITION AND ASCE 7-16.
- 1.2 BUILDING OCCUPANCY CATEGORY II
- 2.0 LOADINGS:
- 2.1 GRAVITY LOADS
  - 2.1.1 ROOF LIVE LOAD: 20 PSF
  - 2.1.2 1ST FLOOR LIVE LOAD: 100 PSF
  - 2.1.3 ROOF DEAD LOAD: 10 PSF
- 2.2 SNOW LOAD:
  - 2.2.1 PG=0 PSF
  - 2.2.2 CE=1.0
  - 2.2.3 I = 1.0
  - 2.2.4 CT=1.0
  - 2.2.5 FLAT ROOF (MIN.)= 0 PSF
  - 2.2.6 SLOPED ROOF PS = 0 PSF
- 2.3 WIND LOAD CRITERIA:
  - 2.3.1 WIND SPEED: Vwsd=106 MPH (Vult=136 MPH, RISK CATEGORY II)
  - 2.3.2 EXPOSURE CATEGORY C
  - 2.3.3 TOPOGRAPHICAL FACTOR - KZT=1.0
  - 2.3.4 GUST RESPONSE FACTOR - G: 0.850
  - 2.3.5 DIRECTIONALITY FACTOR - KD: 0.85
  - 2.3.6 PRESSURE EXPOSURE COEFFICIENT - KZ: 0.96 (26'-10" - EXPOSURE C)
  - 2.3.7 BASIC VELOCITY PRESSURE - qz(ASD): 23.4 PSF
- 2.4 SEISMIC LOAD:
  - 2.4.1 Is=1.0
  - 2.4.2 OCCUPANCY CATEGORY II
  - 2.4.3 Ss=0.063, S1=0.034
  - 2.4.4 SITE CLASS D
  - 2.4.5 SDS=0.067, SD1=0.054
  - 2.4.6 SEISMIC DESIGN CATEGORY A
  - 2.4.7 STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R=3.0)
  - 2.4.8 BASE SHEAR V=0.022W (Cs=0.022)
  - 2.4.9 EQUIVALENT LATERAL FORCE PROCEDURE
- 3.0 FOUNDATION
- 3.1 ASSUMED SOIL ALLOWABLE BEARING 2,000 PSF
- 3.2 ASSUMED SOIL LATERAL BEARING 150 PSF/FT
- 3.3 ASSUMED LATERAL SLIDING COEFFICIENT OF FRICTION 0.25
- 3.4 FOOTINGS SHALL BEAR A MINIMUM OF 1'-0" BELOW FINAL GRADE, 1'-0" BELOW UNDISTURBED GROUND SURFACE, OR AS NOTED ON THE FOUNDATION PLAN/FOOTING TABLE, WHICHEVER IS DEEPER.
- 3.5 THE FOUNDATIONS HAVE BEEN ESTIMATED AND SHALL BE REVIEWED BY THE ENGINEER ONCE A FINAL GEOTECHNICAL REPORT IS COMPLETED. THE SUPPORT SOILS SHALL BE PREPARED PER THE REFERENCED GEOTECHNICAL REPORT PRIOR TO THE PLACEMENT OF ANY CONCRETE.
- 4.0 CONCRETE:
- 4.1 CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF:
  - 4.1.1 SLABS ON GRADE: 4,000 PSI
  - 4.1.2 FOUNDATION WALL: 4,000 PSI
  - 4.1.3 FOOTINGS: 3,500 PSI
- 4.2 REINFORCING STEEL SHALL HAVE A MINIMUM SPECIFIED YIELD STRENGTH OF 60,000 PSI. BARS SHALL BE PER ASTM A615 OR A706. WELDED WIRE FABRIC SHALL BE PER ASTM A185.
- 4.3 REINFORCING COVER SHALL BE:
  - 3.1 3" MINIMUM FROM THE BOTTOM FOOTINGS
  - 3.2 2" MINIMUM FROM THE TOP OR SIDES OF FOOTINGS OR SLABS.
- 4.4 LAP SPICES SHALL BE:
  - 3.1 48" FOR #8 REINFORCING BARS
  - 3.2 42" FOR #7 REINFORCING BARS
  - 3.3 36" FOR #6 REINFORCING BARS
  - 3.4 30" FOR #5 REINFORCING BARS
  - 3.5 24" FOR #4 REINFORCING BARS
  - 3.6 8" FOR 6X6 W.W.F.
- 4.5 ALL EXPOSED FORMED SURFACES SHALL BE PROVIDED A RUBBED FINISH AFTER REMOVAL OF FORMS.
- 4.6 ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED WITH 6% AIR.
- 4.7 ALL BEARING SURFACES SHALL BE LEVEL (WITHIN 1/8" IN 12").
- 4.8 ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 36 OR BETTER.
- 5.0 STRUCTURAL STEEL:
- 5.1 ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- 5.2 STRUCTURAL STEEL MATERIAL TO BE:
  - 5.2.1 PLATES - ASTM A36
  - 5.2.2 SHAPES - ASTM A36 OR ASTM A992
  - 5.2.3 STRUCTURAL TUBE - ASTM A500 GR. B, FY = 46 KSI
  - 5.2.4 PIPE - ASTM A53 GR. B, FY = 35 KSI
  - 5.2.5 BOLTS - ASTM A325-N OR A490 WHERE NOTED
  - 5.2.6 ANCHOR BOLTS - ASTM F1554, GRADE 36 OR BETTER
  - 5.2.7 EPOXY GROUTED ANCHOR BOLTS SHALL BE HILTI HIT HY200, OR APPROVE EQUIVALENT
  - 5.2.8 ALL BOLTING SHALL BE SUPPLIED WITH A 1-1/2" DIA. WASHERS
- 5.3 WELDING ELECTRODES SHALL BE E-70XX, OR EQUIVALENT FOR PROCESS USED.
- 5.4 ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE.
- 6.0 ENGINEER REQUIRED INSPECTIONS:
- 6.1 CONCRETE INCLUDING FOOTINGS, WALLS, PIERS AND SLABS SHOWN ON THESE DRAWINGS SHALL BE INSPECTED AND TESTED FOR CONFORMANCE WITH THE DRAWINGS AND SPECIFIED MATERIAL STRENGTH PER TABLE 1705.3 OF THE 2015 INTERNATIONAL BUILDING CODE
- 6.2 SOILS SUPPORTING THE STRUCTURE SHOWN ON THESE DRAWINGS SHALL BE INSPECTED AND TESTED FOR CONFORMANCE WITH THE DRAWINGS AND SPECIFIED MATERIAL STRENGTH PER TABLE 1705.6 OF THE 2015 INTERNATIONAL BUILDING CODE.

**GENERAL STEEL FRAMING NOTES:**

- 1. PROPER BRACING OF MEMBERS DURING INSTALLATION MUST BE PERFORMED UNTIL COMPLETE.
- 2. ANY MODIFICATIONS TO THE PROPOSED STRUCTURE NEEDS TO HAVE PRIOR CONSENT FROM THE LICENSED ENGINEER OF RECORD.
- 3. THE INSTALLATION OF THE STRUCTURE SHALL BE PERFORMED BY SOMEONE OF EXPERIENCE AND COMPETENCE. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO PROPERLY ASSEMBLE THE STRUCTURE AS SHOWN IN THIS DOCUMENT.
- 4. ALWAYS USE THE INSTALLATION INSTRUCTIONS THAT HAVE SHIPPED WITH THE FRAMING MATERIAL AS THESE ARE THE MOST CURRENT DRAWINGS. POSSIBLE CHANGES IN MATERIAL QUANTITIES, LENGTHS, PART LABELS, ETC. MAY HAVE BEEN NECESSARY DURING FINAL SHOP DRAWINGS, EVEN AFTER SEALED ENGINEERING.
- 5. READ AND UNDERSTAND INSTALLATION INSTRUCTIONS THOROUGHLY BEFORE PROCEEDING WITH THE INSTALLATION PROCESS.
- 6. ALL BOLTED CONNECTIONS SHOULD FOLLOW THE "TURN-OF-THE-NUT PRETENSIONING" METHOD AS OUTLINED IN THE AISC SPECIFICATION. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO MAKE SURE ALL AISC REQUIREMENTS ARE MET.
- 7. KEEP ALL BOLTED CONNECTIONS LOOSE ENOUGH DURING INSTALLATION SO THAT ADJUSTMENTS MAY BE POSSIBLE.

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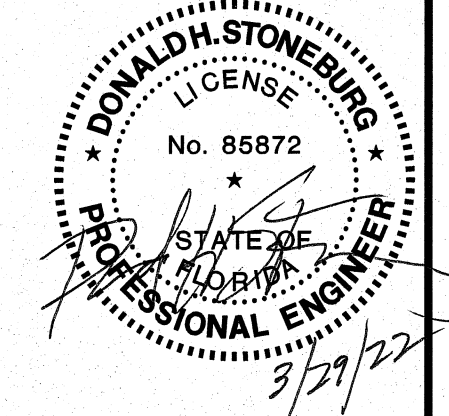
NO.	DESCRIPTION	DATE
03/29/22	FOR CONSTRUCTION	



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CONSULTANT

STAMP:

PROJECT NUMBER: 22-1017

FILENAME:

SCALE: AS NOTED

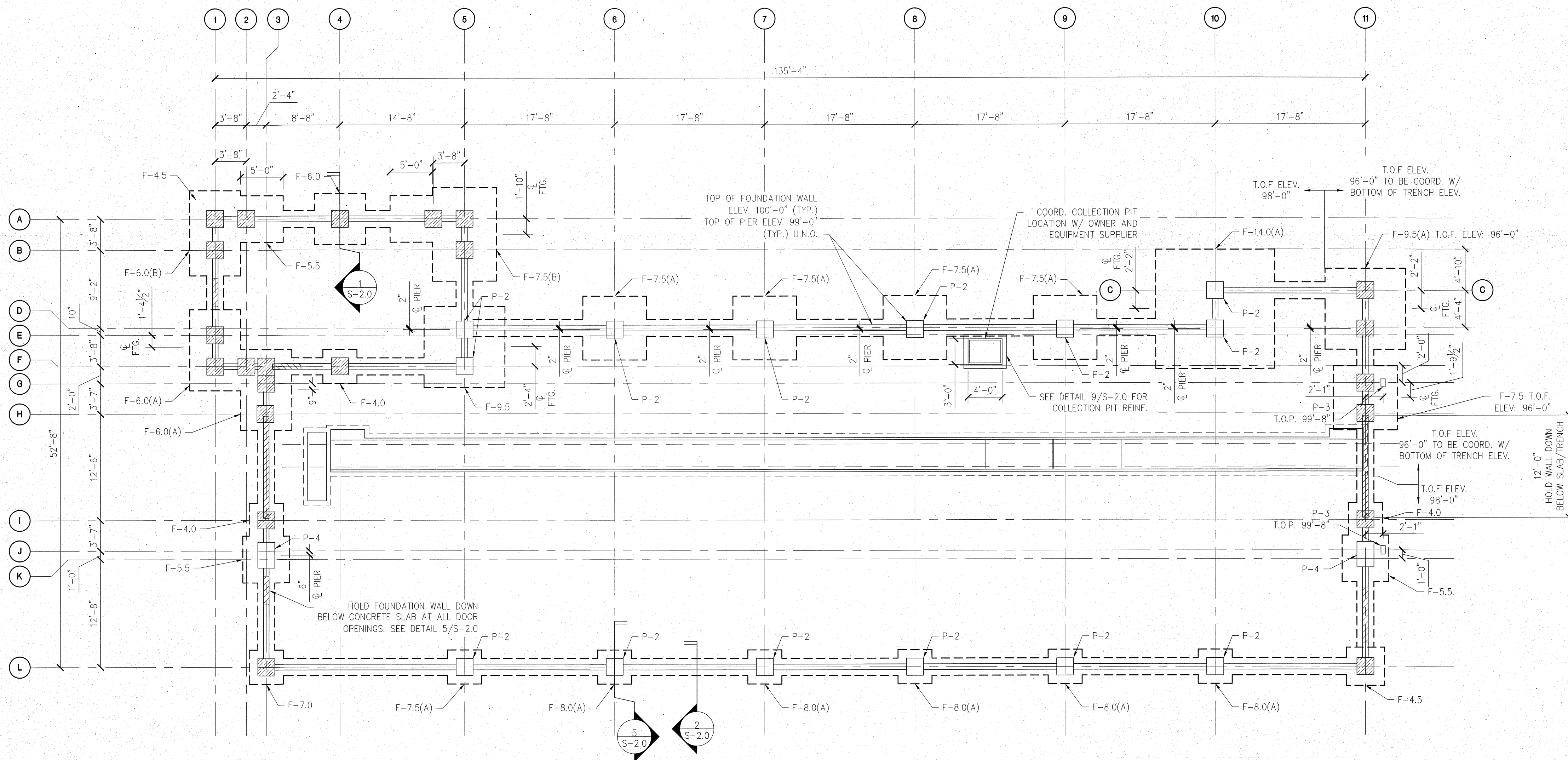
PLOT DATE:

DRAWN BY: MKG

DRAWINGS FOR: **Star Wash Express**  
925 LOCKWOOD BLVD.  
OWIEDO, FL 32765

SHEET TITLE: **Structural Notes**

SHEET: **S-0.1**



**A MAIN BUILDING FOUNDATION PLAN**  
S-1.0 SCALE: 1/8" = 1'-0"

FOOTING TABLE			
Footings Number	FOOTING SIZE	FOOTING REINFORCEMENT	ANCHOR BOLTS
F-4.0	4'-0"x4'-0"x1'-0"	#5 BARS @ 12" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-4.5	4'-6"x4'-6"x1'-0"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-5.5	5'-6"x5'-6"x1'-0"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-6.0	6'-0"x6'-0"x1'-0"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-6.0(A)	6'-0"x9'-6"x1'-0"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-6.0(B)	6'-0"x10'-0"x1'-0"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-7.0	7'-0"x7'-0"x1'-0"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-7.5	7'-6"x7'-6"x1'-0"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-7.5(A)	7'-6"x7'-0"x1'-6"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-7.5(B)	7'-6"x11'-0"x1'-0"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-8.0(A)	8'-0"x8'-0"x1'-6"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-9.5	9'-6"x9'-6"x1'-0"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-9.5(A)	9'-6"x9'-6"x1'-6"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE
F-14.0(A)	14'-0"x14'-0"x1'-6"	#5 BARS @ 6" O.C. E.W. AT BOTTOM	SEE PIER TABLE

NOTES:  
1. TOP OF FOOTING ELEV. 98'-0", UNLESS NOTED OTHERWISE ON THE PLAN

PIER TABLE			
PIER NUMBER	PIER PLAN SIZE	REINFORCEMENT	COMMENTS
P-1	2'-0"x2'-0"	(8) #8 BARS VERTICAL W/#3 TIES AT 10" O.C.	SEE S-3.0 AND S-3.1 FOR ANCHOR BOLT REQUIREMENTS
P-2	2'-0"x2'-0"	(8) #8 BARS VERTICAL W/#3 TIES AT 10" O.C.	SEE S-3.0 AND S-3.1 FOR ANCHOR BOLT REQUIREMENTS
P-3	1'-2"x1'-8"	(6) #5 BARS VERTICAL W/#3 TIES AT 4" O.C.	SEE S-3.0 AND S-3.1 FOR ANCHOR BOLT REQUIREMENTS
P-4	2'-0"x3'-0"	(13) #6 BARS VERTICAL W/#3 TIES AT 10" O.C.	SEE S-3.0 AND S-3.1 FOR ANCHOR BOLT REQUIREMENTS

NOTES:  
1. ALL PIERS TO BE TYPE P-1, UNLESS NOTED OTHERWISE  
2. TOP OF PIER 'P-1' ELEV. 99'-0", UNLESS NOTED OTHERWISE  
3. TOP OF PIER 'P-2' ELEV. 99'-0", UNLESS NOTED OTHERWISE  
4. TOP OF PIER 'P-3' ELEV. 99'-8", UNLESS NOTED OTHERWISE  
5. TOP OF PIER 'P-4' ELEV. 99'-0", UNLESS NOTED OTHERWISE  
6. PIERS 'P-2' SHALL RECEIVE ANCHOR REINFORCEMENT. SEE DETAIL 5/S-2.0

- FOUNDATION NOTES:**
- SEE FOOTING AND PIER TABLES AND SHEET S-2.0 FOR FOUNDATION DETAILS.
  - FOOTINGS MUST BEAR A MINIMUM OF 12" BELOW FINAL GRADE U.N.O. ON THE PLAN OR FOOTING SCHEDULE.
  - TOP OF FOUNDATION WALLS ARE AT ELEVATION 100'-0" AND TOP PIERS ARE AT ELEVATION 100'-0", UNLESS NOTED OTHERWISE ON THE PLAN OR PIER TABLE. SEE SHEET S-1.1 FOR TOP OF SLAB INFORMATION. ELEVATIONS ARE REFERENCED TO 100'-0" IN MECHANICAL AND COMMAND ROOMS; SEE CIVIL DRAWINGS FOR ACTUAL ELEVATIONS.
  - ALL DIMENSIONS APPROXIMATE, SEE ARCHITECTURAL DRAWINGS AND PEMB BUILDING DRAWINGS FOR FINAL DIMENSIONS.
  - STEEL COLUMNS AND CONCRETE PIERS ARE NOT CENTERED ON EITHER THE COLUMN LINES OR ON EACH OTHER AT THESE LOCATIONS. CONCRETE PIERS SHALL BE INSTALLED BASED ON DIMENSIONS ON THESE DRAWINGS AND STEEL COLUMNS AND ANCHOR BOLTS SHOULD BE INSTALLED BASED ON DIMENSIONS ON THE STEEL BUILDING DRAWINGS. ALL DIMENSIONS SHOULD BE COORDINATED RELATIVE TO THE COLUMN LINES AS THESE ARE IN THE SAME LOCATION ON BOTH THE FOUNDATION AND STEEL BUILDING DRAWINGS.

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3/29/22

CONSULTANT
STAMP:

PROJECT NUMBER: 22-1017  
FILENAME:  
SCALE: AS NOTED  
PLOT DATE:  
DRAWN BY: MKG

Star Wash Express  
925 LOCKWOOD BLVD.  
OWIEDO, FL 32765

Foundation Plan

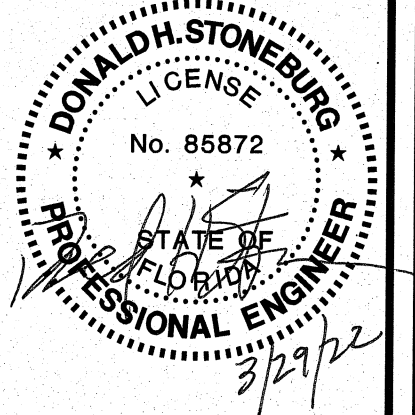
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DATE:	03/29/22
BY:	MKG
CHECKED BY:	DHS
DATE:	
BY:	
CHECKED BY:	
DATE:	
BY:	
CHECKED BY:	
DATE:	
BY:	

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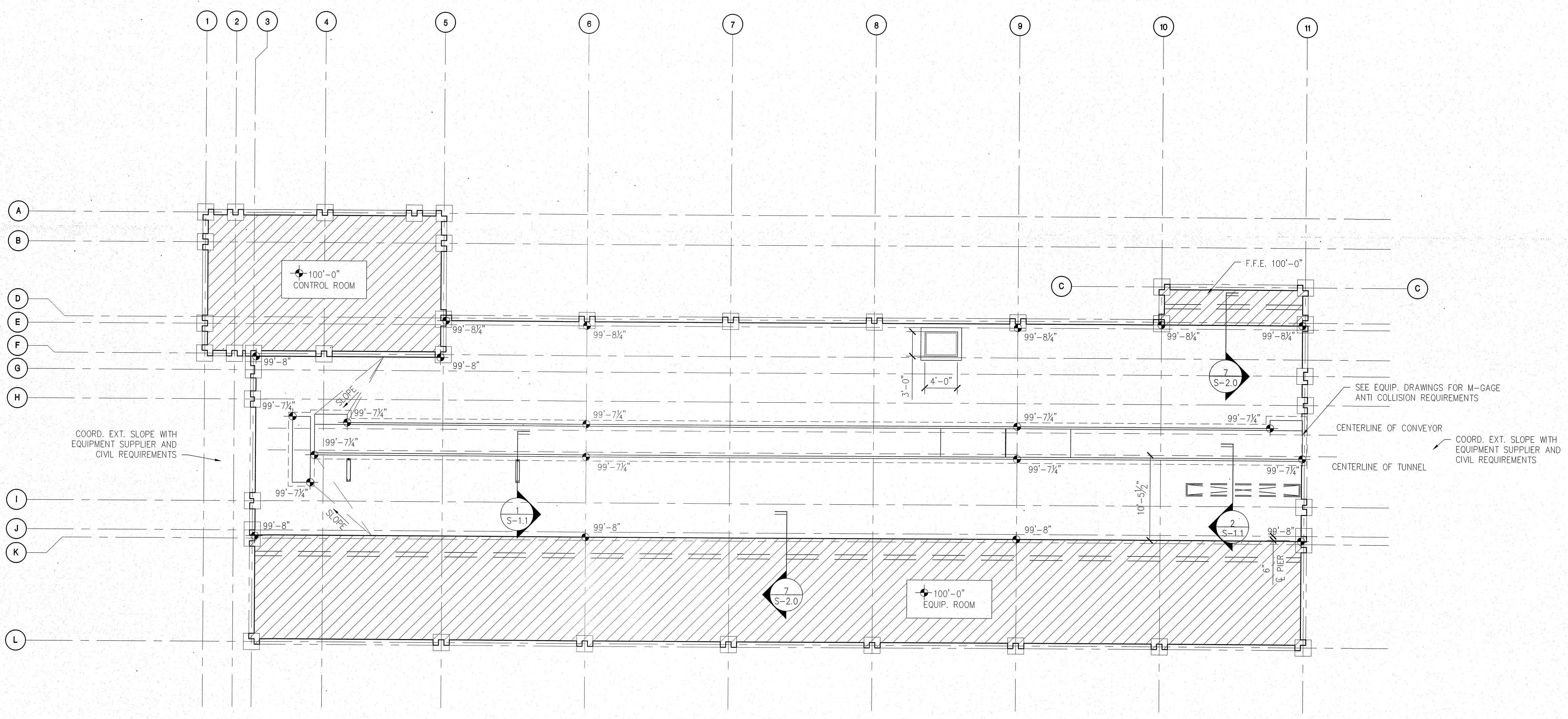
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Star Wash Express  
 925 LOCKWOOD BLVD.  
 OVIEDO, FL 32765

Slab & Trench Plan

SHEET TITLE:

S-1.1

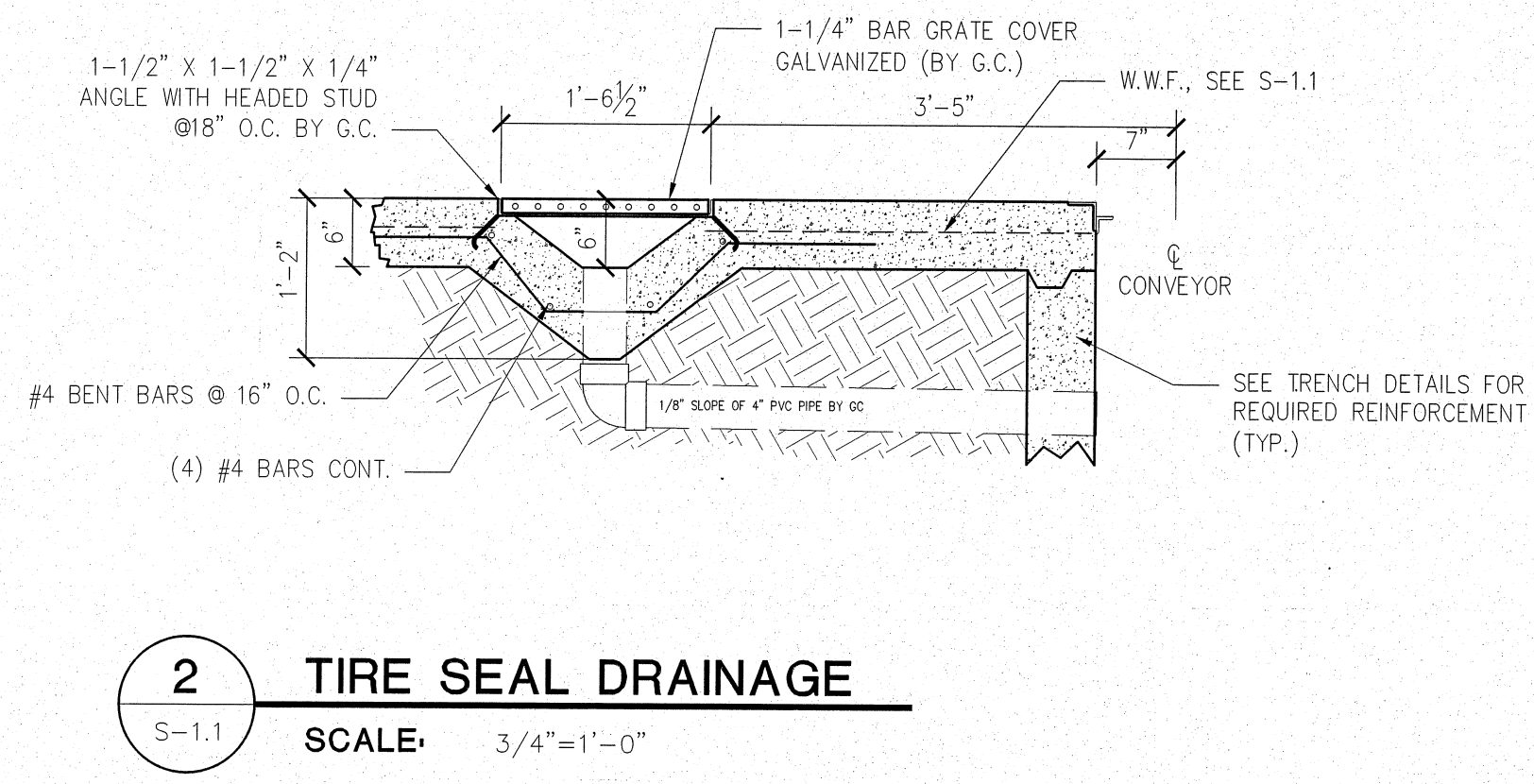
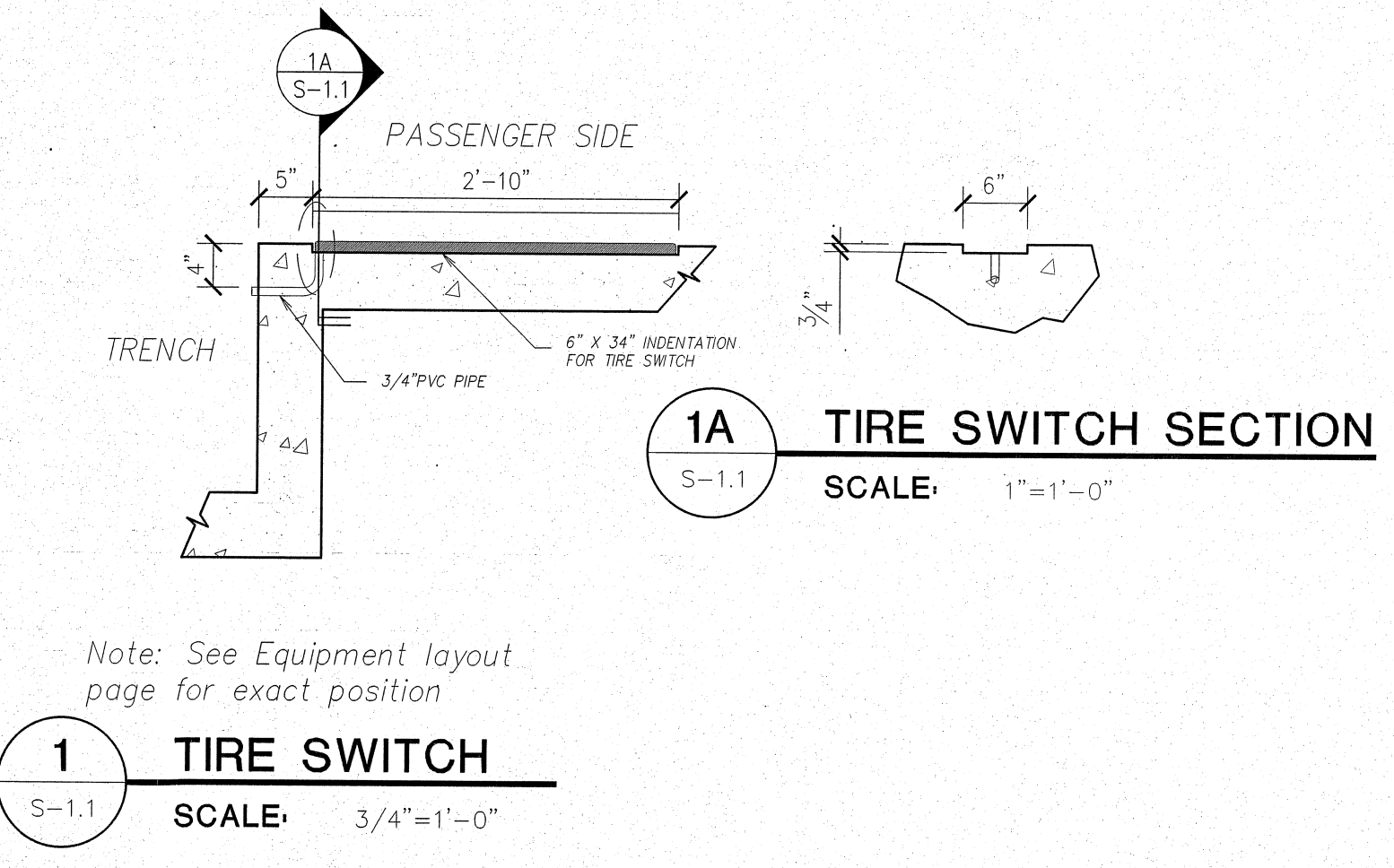


**SLAB ELEVATION LEGEND**

TOP OF SLAB SPOT ELEVATIONS

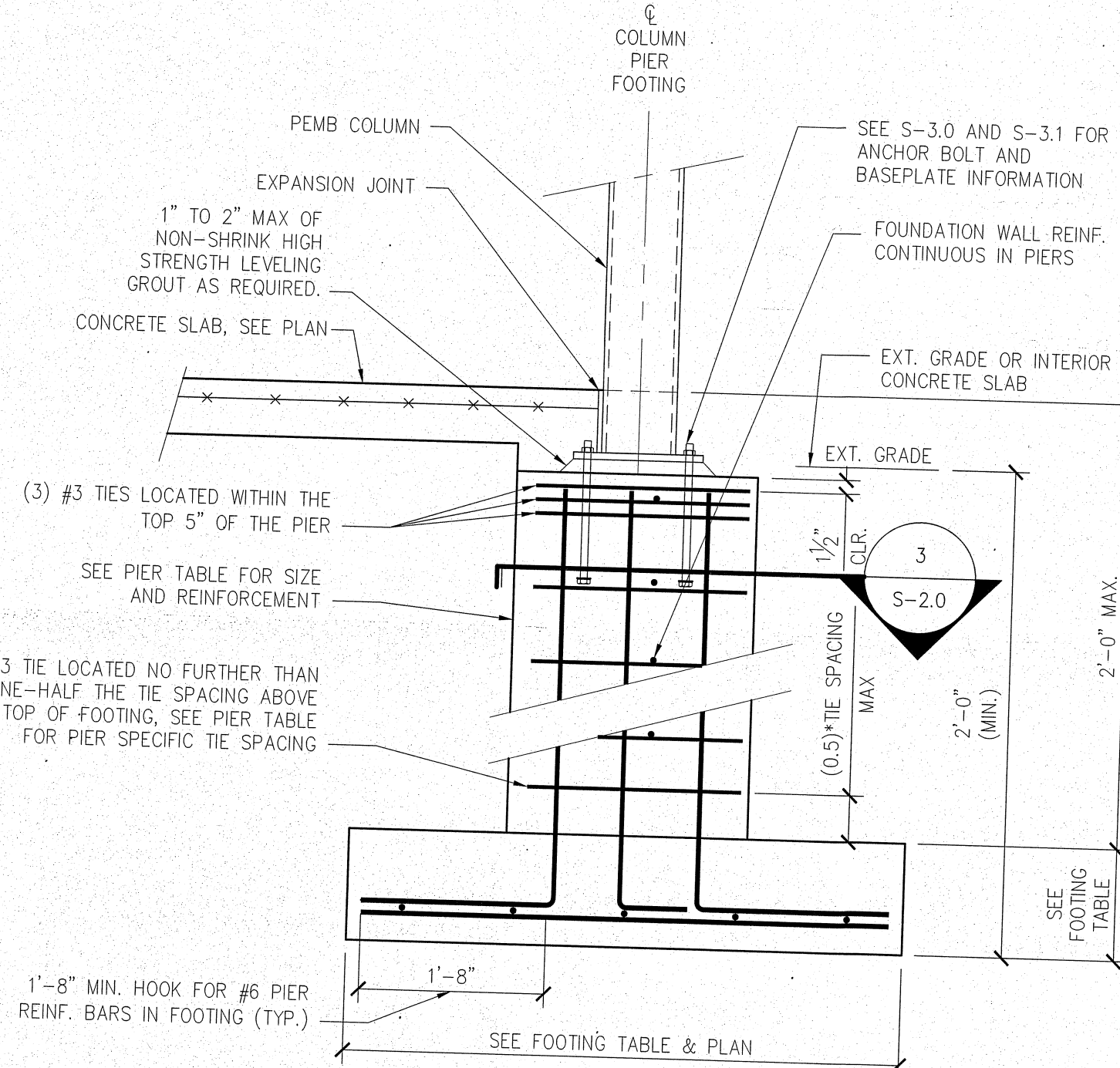
AREA WHERE TOP OF SLAB IS ELEV. 100'-0" SEE NOTE 1.B, THIS SHEET

**A MAIN BUILDING SLAB/TRENCH PLAN**  
 SCALE: 1/8" = 1'-0"

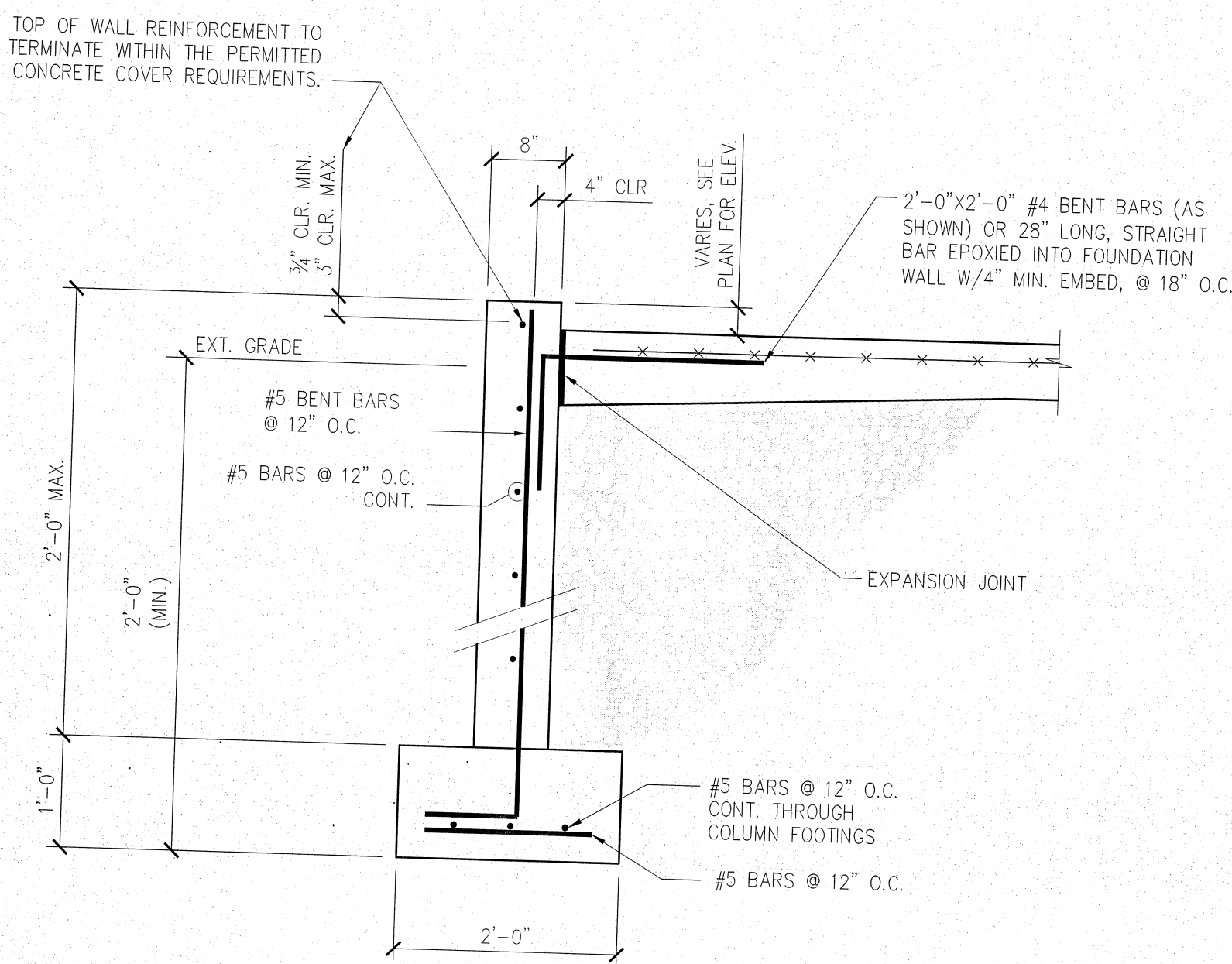


- SLAB/TRENCH NOTES:**
- SLABS ON GRADE ARE AS FOLLOWS:  
 A. WASH BAY SLAB ON GRADE: 6" CONCRETE W/6"x6" W2.9XW2.9 W.W.F. ON 10 MIL VAPOR BARRIER AND 4" COMPACTED STONE BASE. SLAB ELEV. FOR BLDG. REFERENCED TO 100'-0" AT MECH. ROOM, SEE CIVIL FOR ACTUAL ELEVATIONS.  
 B. ALL OTHER SLABS ON GRADE: 4" CONCRETE W/6"x6" W1.4XW1.4 W.W.F. ON 10 MIL VAPOR BARRIER AND 4" COMPACTED STONE BASE. SLAB ELEV. FOR BLDG. REFERENCED TO 100'-0" AT MECH. ROOM, SEE CIVIL FOR ACTUAL ELEVATIONS.
  - CONSTRUCTION/CONTROL JOINTS SHALL BE A MAX. OF 15'-0" ON CENTER (JOINTS SHALL FOLLOW WALLS WHERE POSSIBLE). JOINTS SHALL BE INSTALLED WITH IN 24 HRS OF CONCRETE PLACEMENT (SEE DET. 4/S-2.0).
  - SEE SHEETS S-2.1 & S-2.2 FOR TRENCH ARRANGEMENT AND DETAILS.
  - SEE SHEET S-1.0 FOR DIMENSIONS. ALL DIMENSIONS ARE APPROXIMATE, SEE ARCHITECTURAL DRAWINGS FOR FINAL DIMENSIONS.

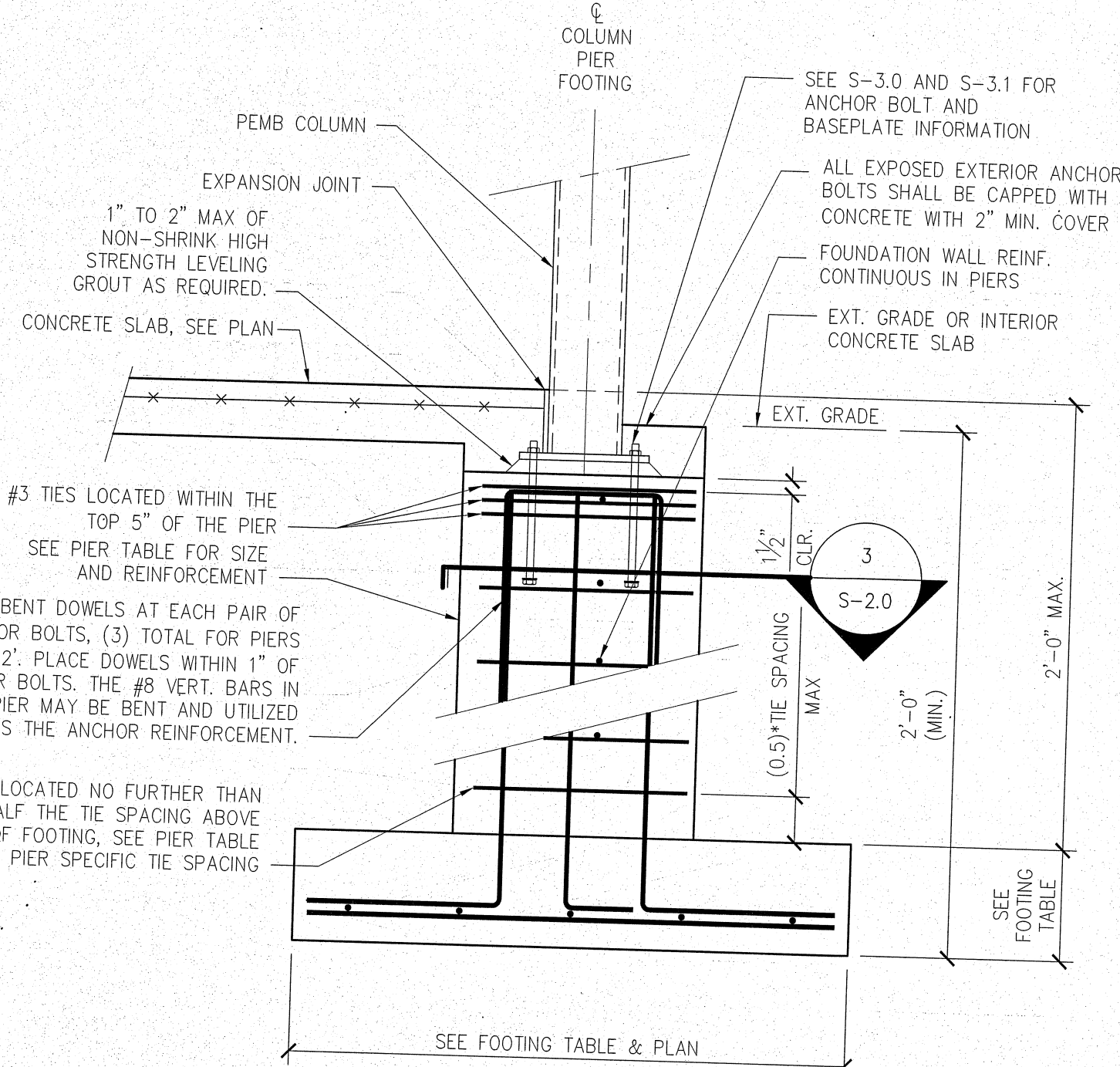
Note: See Equipment layout page for exact position



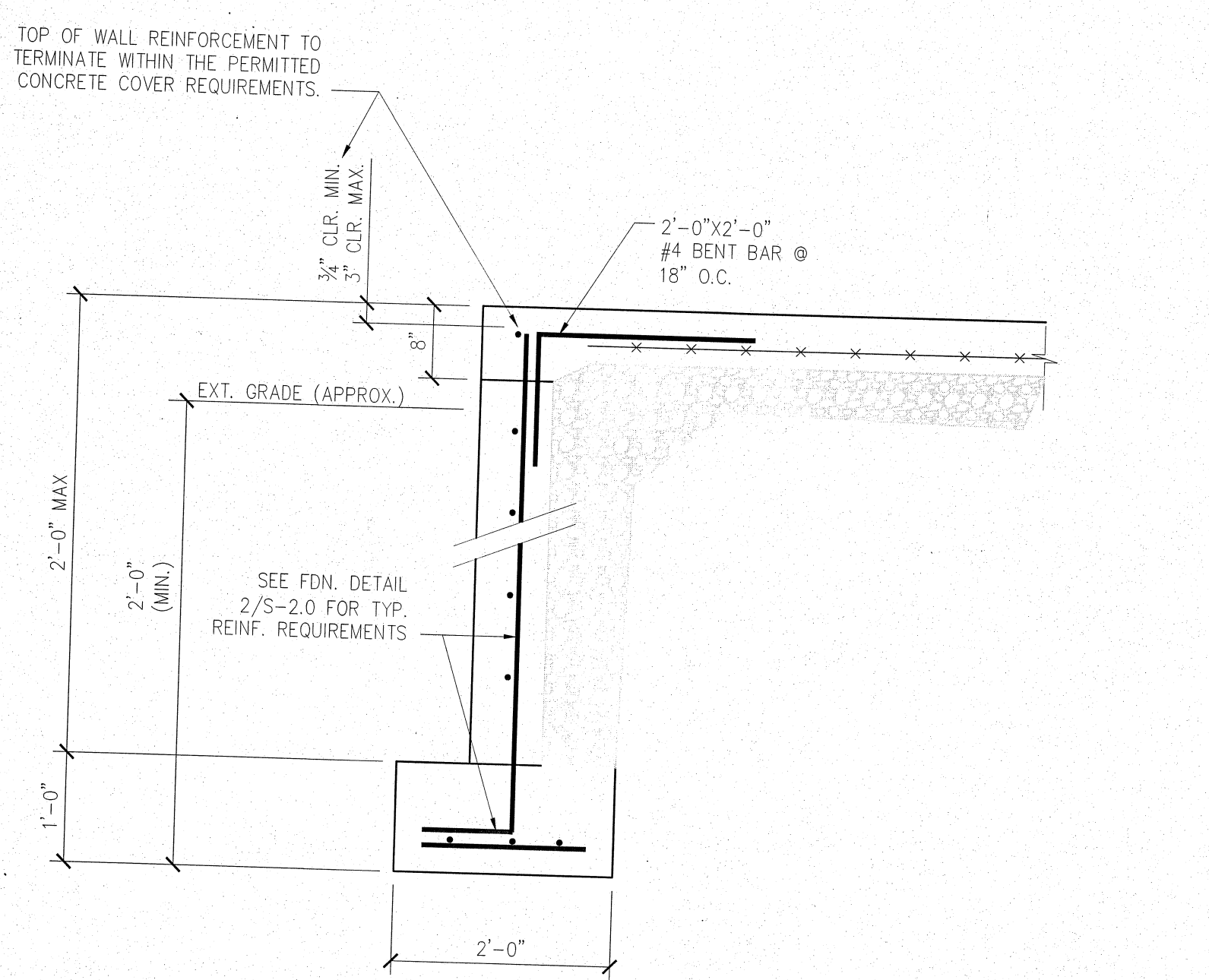
**1 TYP. EXTERIOR PIER "P-1" AND FOOTING**  
 S-2.0 SCALE: 3/4" = 1'-0"



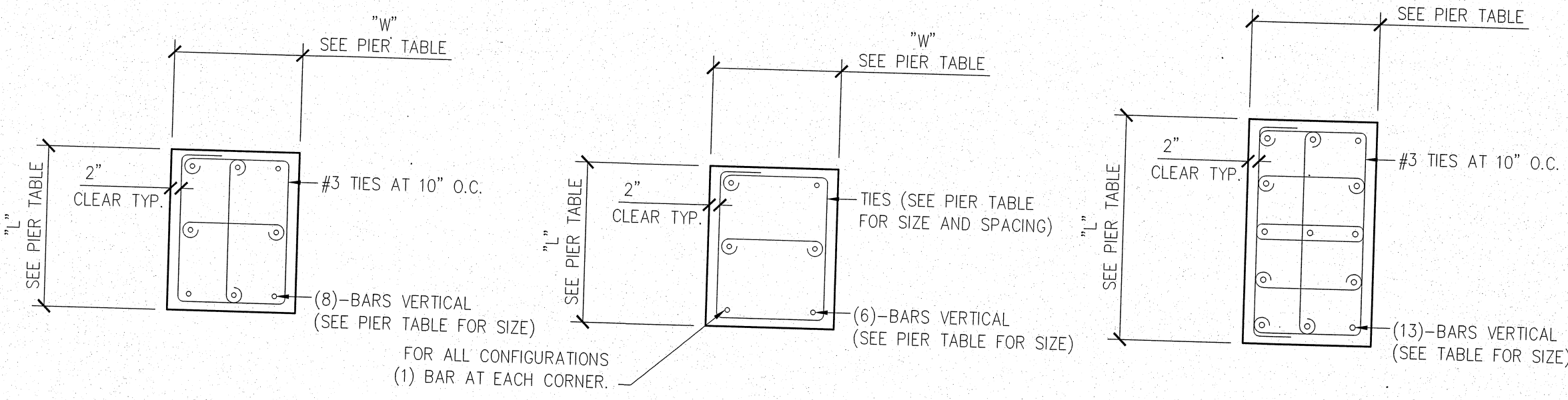
**2 FOUNDATION WALL DETAIL**  
 S-2.0 SCALE: 3/4" = 1'-0"



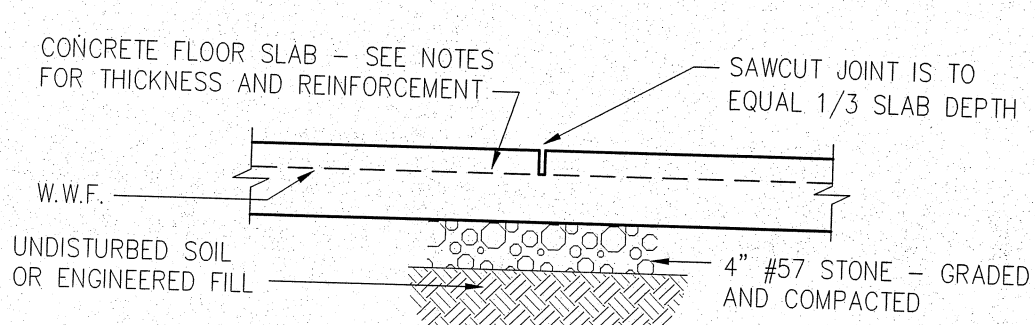
**5 TYP. EXTERIOR PIER "P-2" AND FOOTING**  
 S-2.0 SCALE: 3/4" = 1'-0"



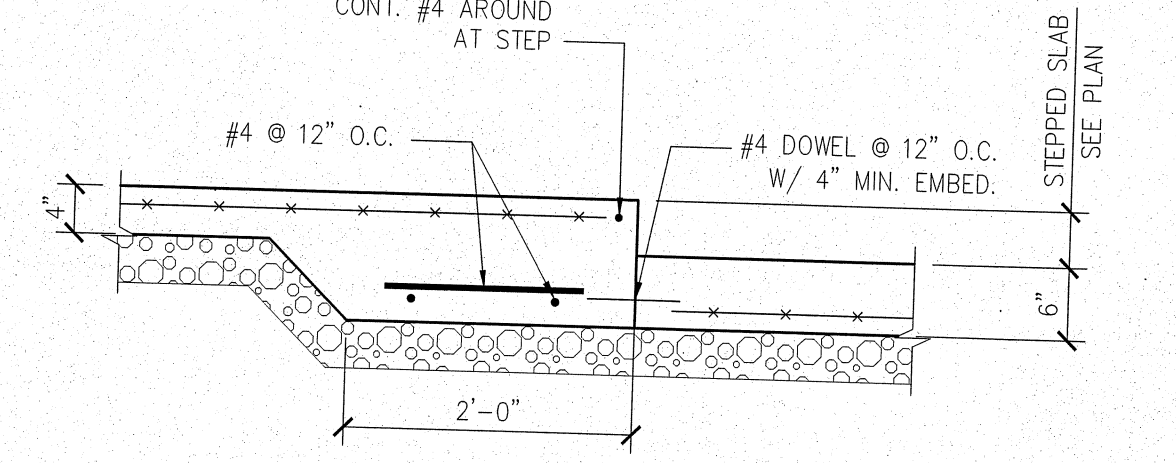
**6 OPENING POUR THRU DETAIL**  
 S-2.0 SCALE: 3/4" = 1'-0"



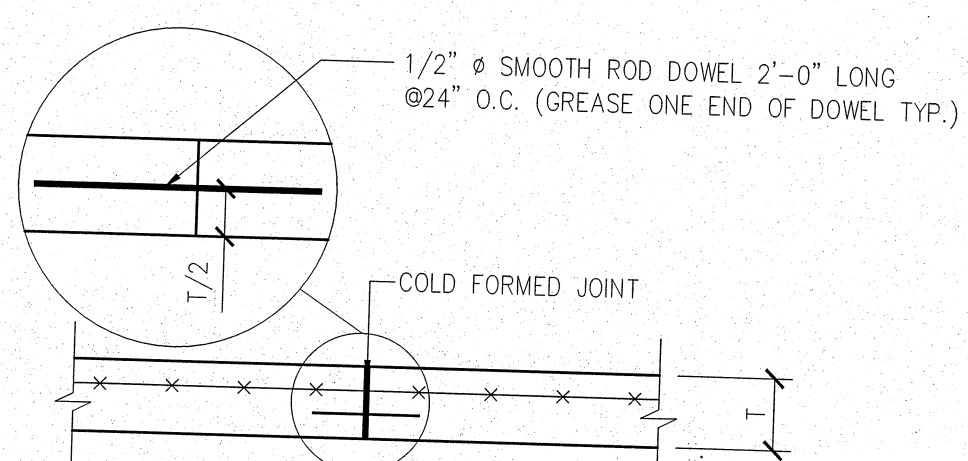
**3 PIER DETAILS**  
 S-2.0 SCALE: NONE



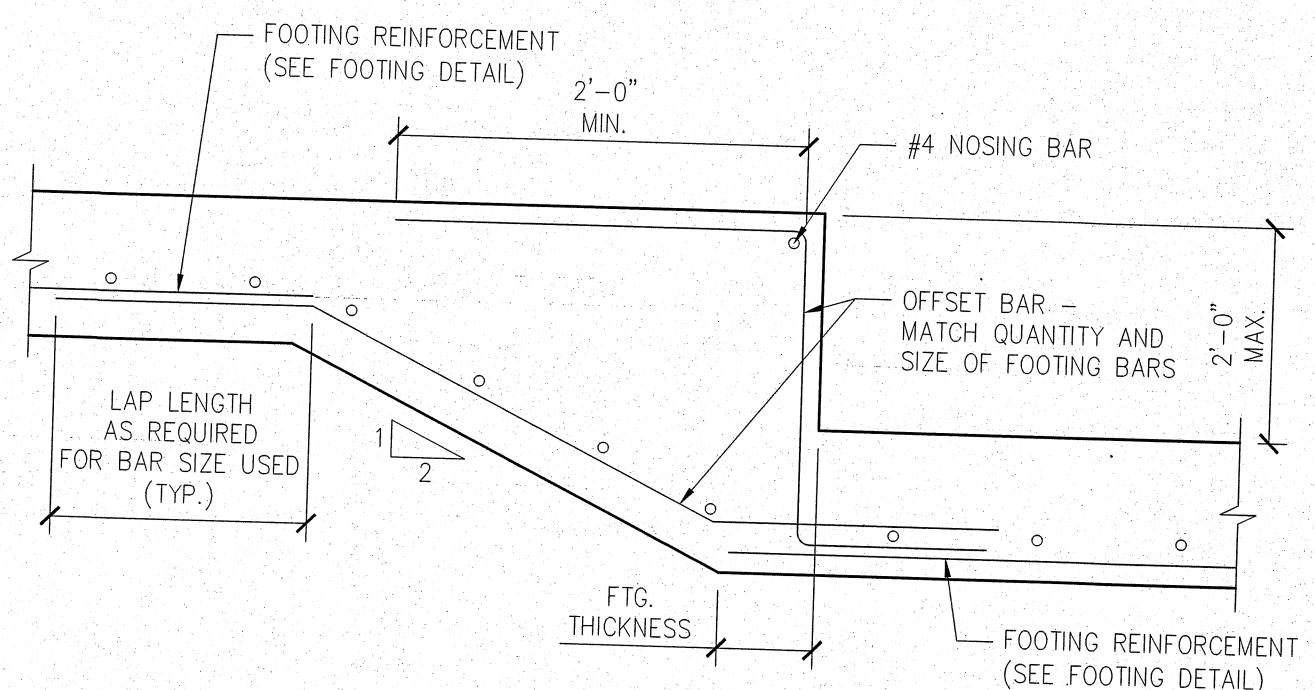
**4 CONCRETE JOINT DETAIL**  
 S-2.0 SCALE: 3/4" = 1'-0"



**7 INTERIOR CONCRETE SLAB STEP**  
 S-2.0 SCALE: 3/4" = 1'-0"



**4 SLAB CONSTRUCTION JOINT**  
 NOTES:  
 1. CONTRACTION JOINTS SHALL BE CUT WITHIN 24 HOURS AFTER PLACING FLOOR SLAB.  
 2. SEE PLAN FOR SLAB THICKNESS AND REINFORCEMENT.



**8 FOOTING STEP DETAIL**  
 S-2.0 SCALE: 3/4" = 1'-0"

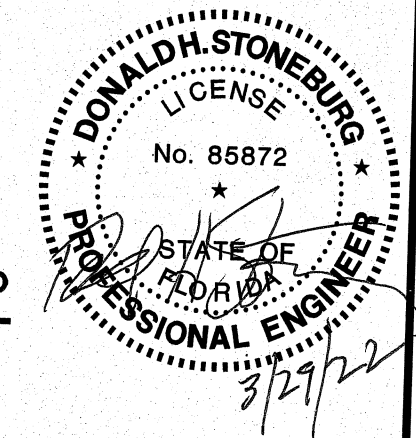
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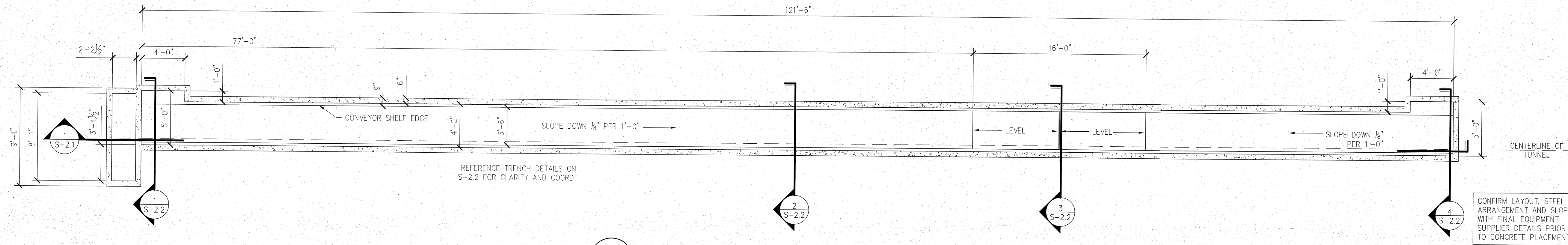
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 OVIEDO, FL 32765

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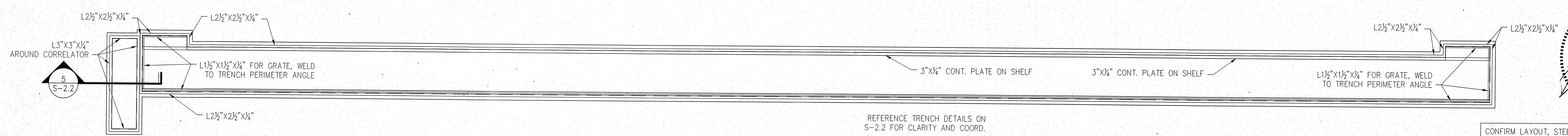
SHEET: **S-2.0**

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**A TRENCH PLAN (CONCRETE)**  
S-2.1 SCALE: 3/16" = 1'-0"

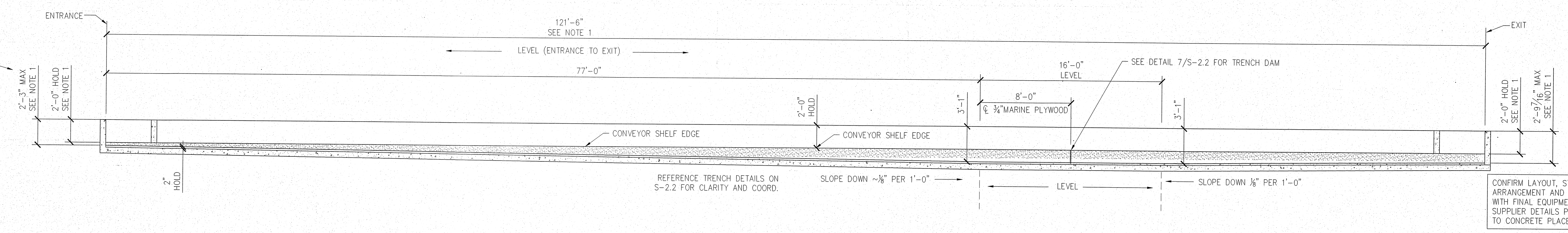
CONFIRM LAYOUT, STEEL ARRANGEMENT AND SLOPES WITH FINAL EQUIPMENT SUPPLIER DETAILS PRIOR TO CONCRETE PLACEMENT



**B TRENCH PLAN (STEEL)**  
S-2.1 SCALE: 3/16" = 1'-0"

CONFIRM LAYOUT, STEEL ARRANGEMENT AND SLOPES WITH FINAL EQUIPMENT SUPPLIER DETAILS PRIOR TO CONCRETE PLACEMENT

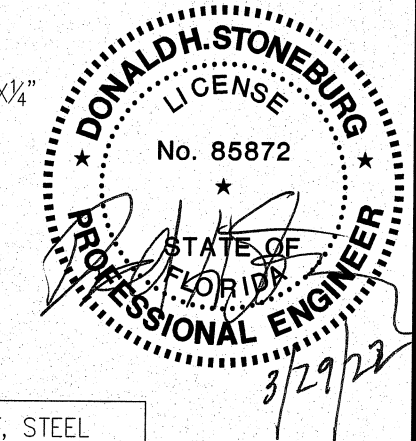
DIMENSIONS SHOWN ARE BASED UPON ASSUMED TRENCH DRAIN LOCATION AS SHOWN ON THESE DRAWINGS AND MIN. SLOPE REQUIREMENTS. PRIOR TO THE BEGINNING OF WORK, LOCATION OF THE DRAIN IS TO BE VERIFIED AND REVIEWED BY THE EQUIPMENT SUPPLIER. IF THE DRAIN IS TO BE LOCATED DIFFERENTLY THAN SHOWN ON THIS PLAN, THE OWNER AND MODERNWASH SHALL BE NOTIFIED TO REVIEW FINAL TRENCH DESIGN.



**1 TRENCH SECTION**  
S-2.1 SCALE: 3/16" = 1'-0"

CONFIRM LAYOUT, STEEL ARRANGEMENT AND SLOPES WITH FINAL EQUIPMENT SUPPLIER DETAILS PRIOR TO CONCRETE PLACEMENT

- TRENCH NOTES:**
1. PRIOR TO THE BEGINNING OF WORK, ALL CONCRETE STRUCTURES SHALL BE REVIEWED BY THE EQUIPMENT SUPPLIER TO VERIFY ALL DIMENSIONAL REQUIREMENTS AND TO COORDINATE FINAL PIT LOCATION.
  2. WHERE TRENCH WALL & SLAB ARE NOT POURED MONOLITHICALLY, INSTALL PVC WATER STOP AND KEYWAY.



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0	MKG	DHS	03/29/22	FOR CONSTRUCTION

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Bowling Green, KY 42101  
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CONSULTANT

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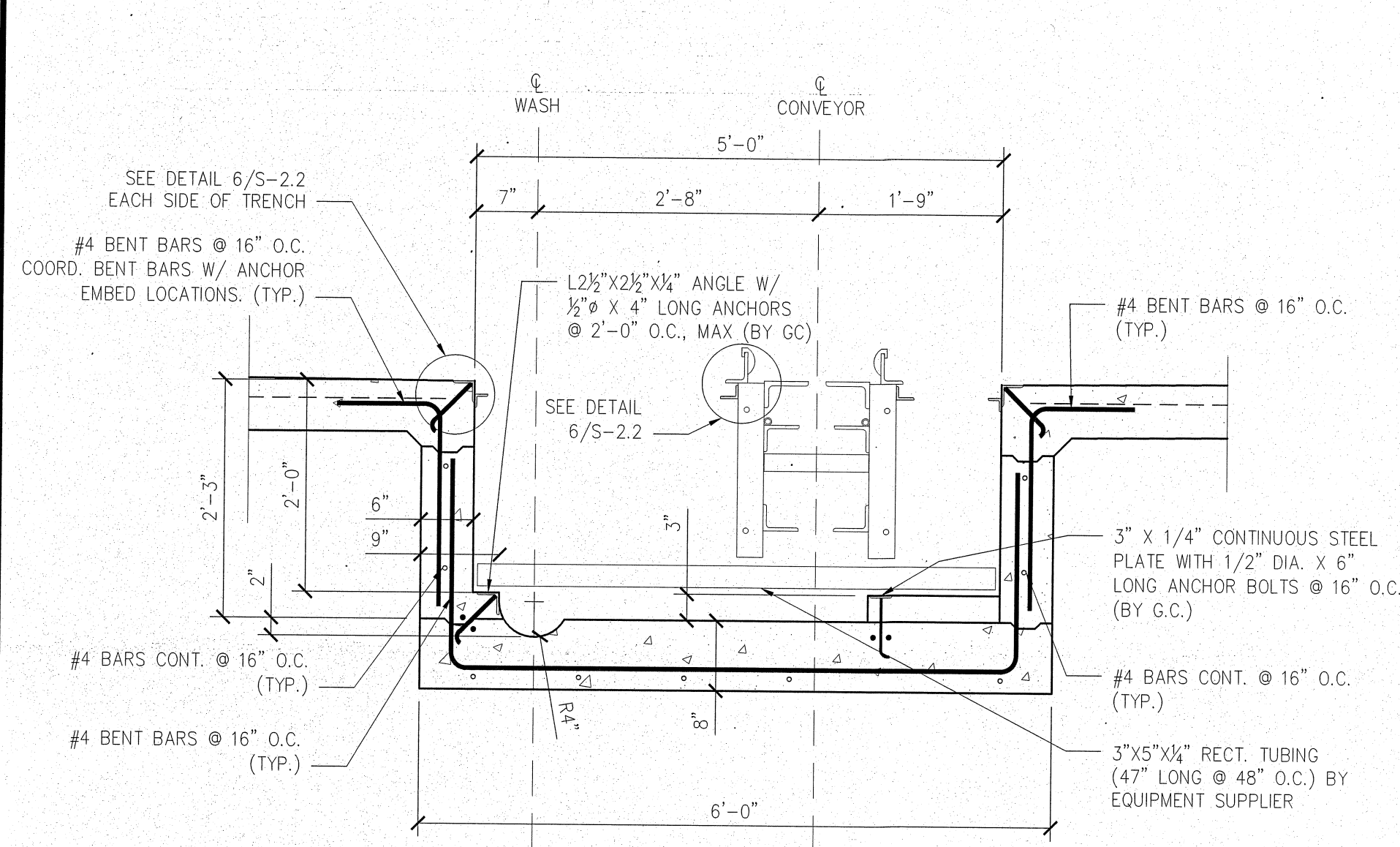
PROJECT NUMBER: 22-1017  
FILENAME:  
SCALE: AS NOTED  
PLOT DATE:  
DRAWN BY: MKG

Star Wash Express  
925 LOCKWOOD BLVD.  
OVIEDO, FL 32765

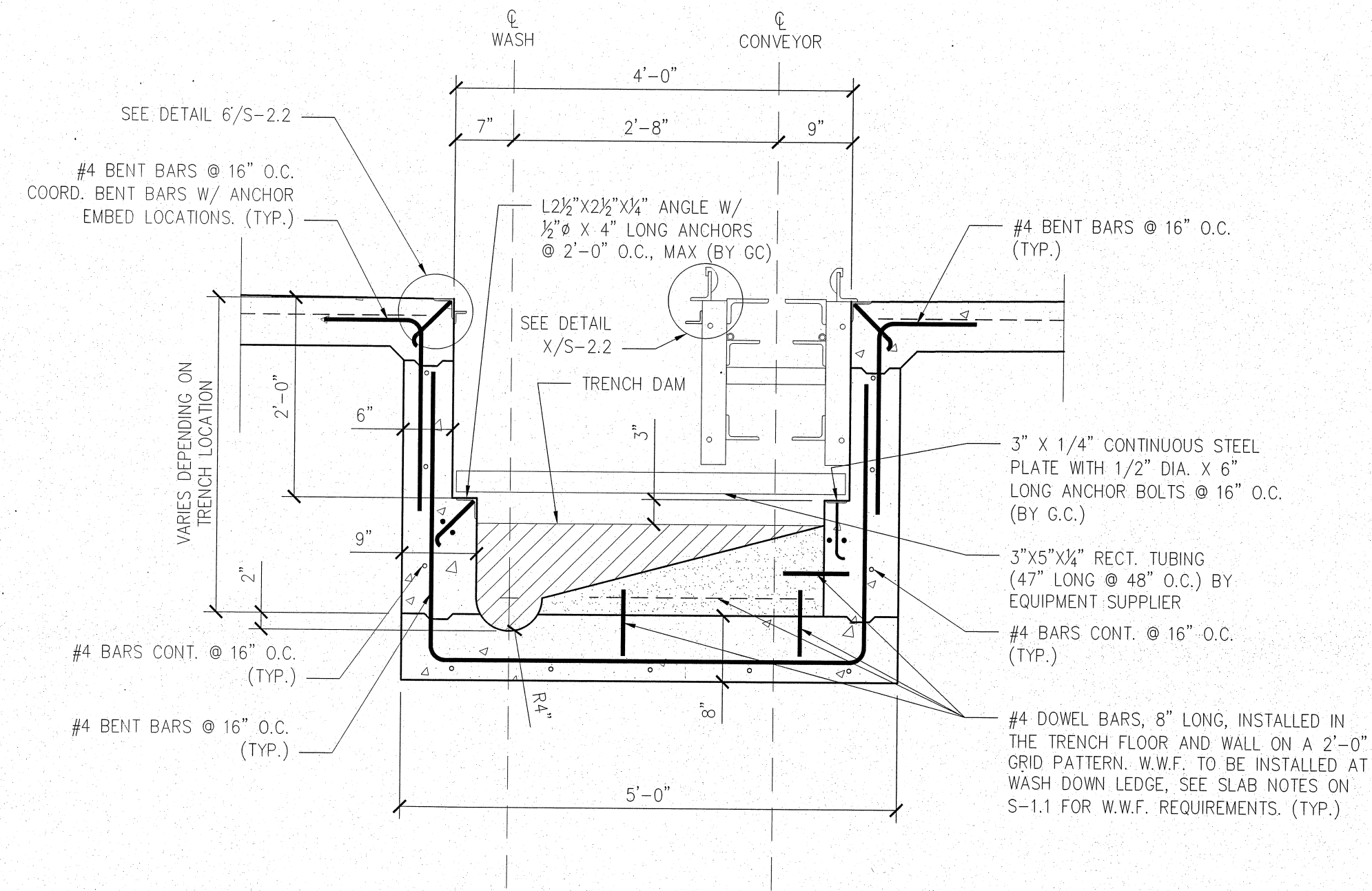
Trench Plan & Layout

SHEET TITLE: Trench Plan & Layout

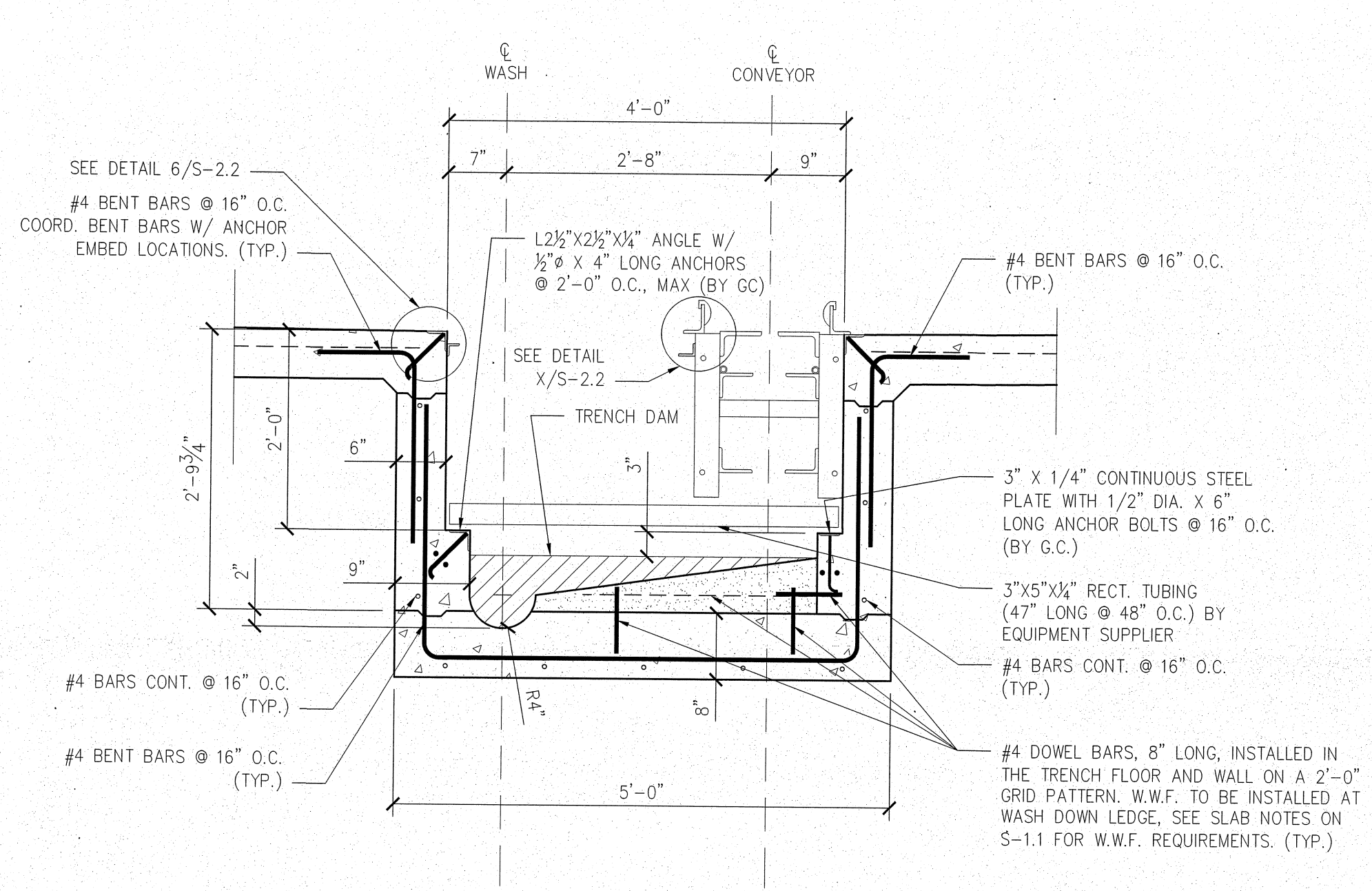
SHEET: S-2.1



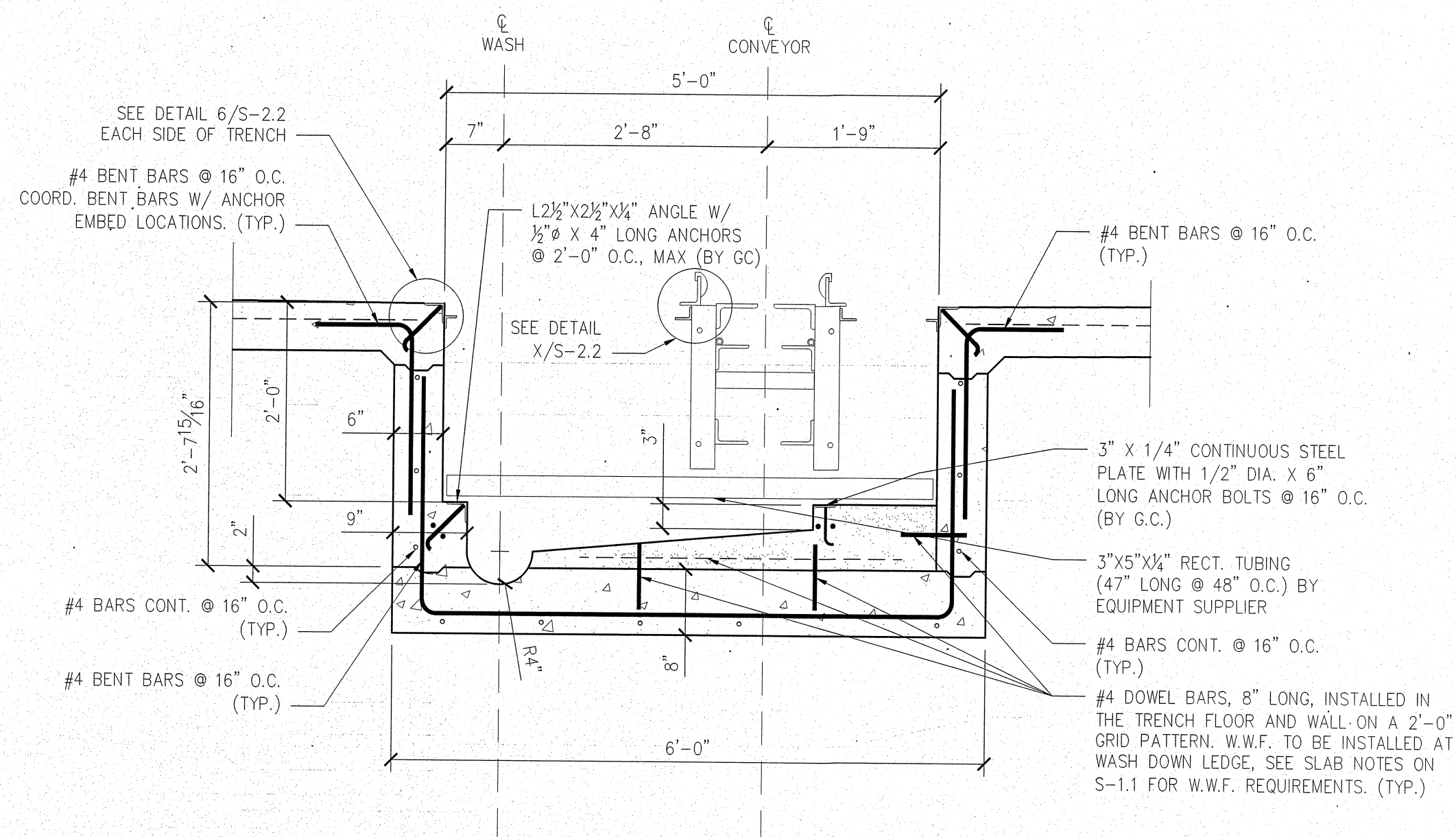
**1 TRENCH SECTION (ENTRANCE)**  
S-2.2 SCALE: 3/4" = 1'-0"



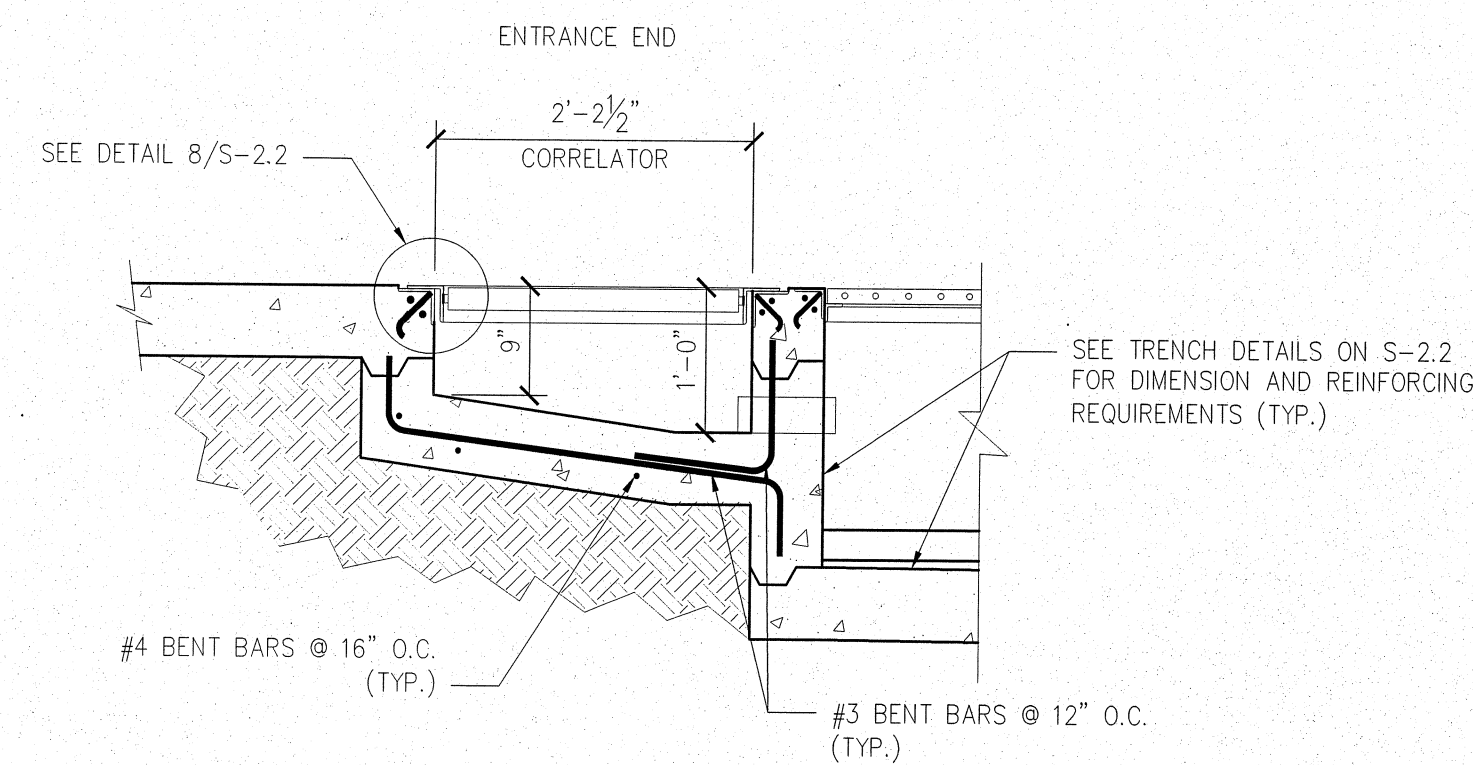
**2 VARIABLE TRENCH SECTION**  
S-2.2 SCALE: 3/4" = 1'-0"



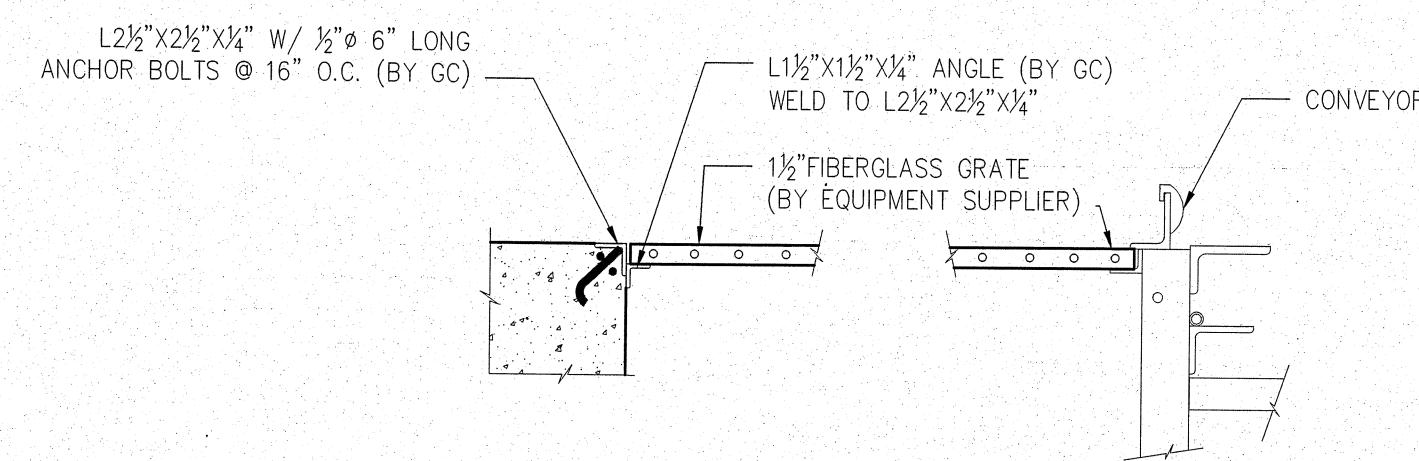
**3 LEVEL TRENCH SECTION**  
S-2.2 SCALE: 3/4" = 1'-0"



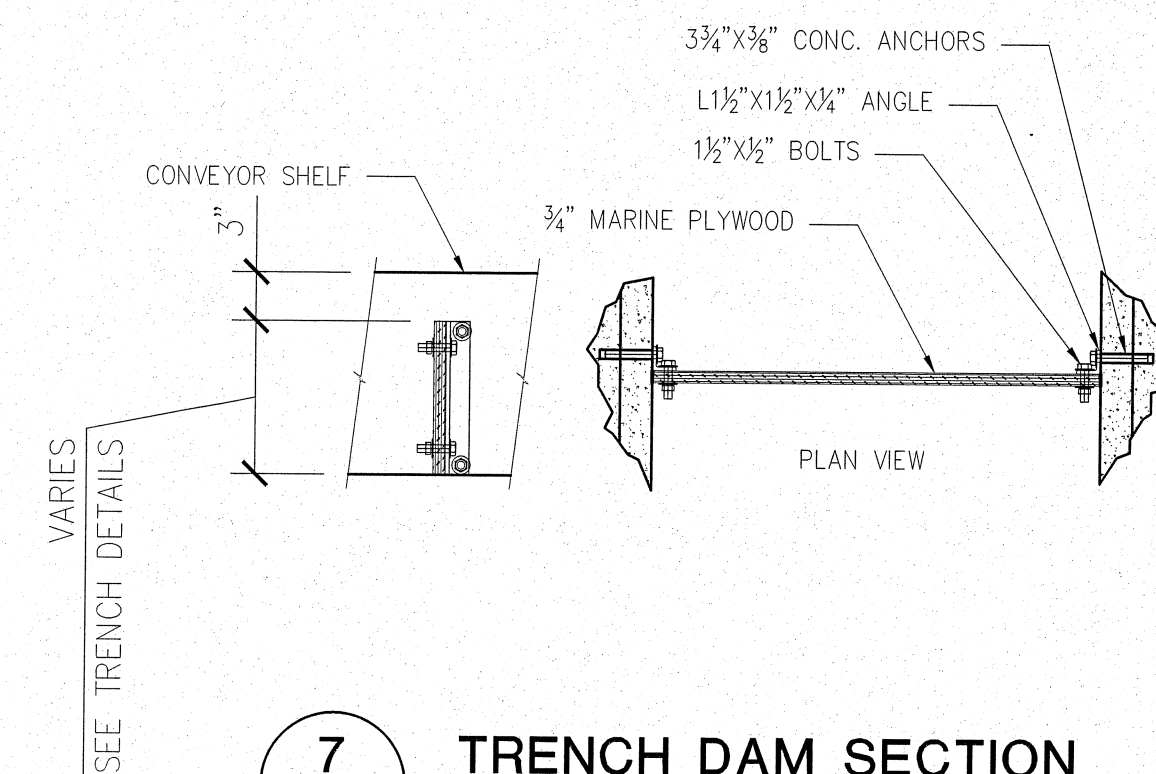
**4 TRENCH SECTION (EXIT)**  
S-2.2 SCALE: 3/4" = 1'-0"



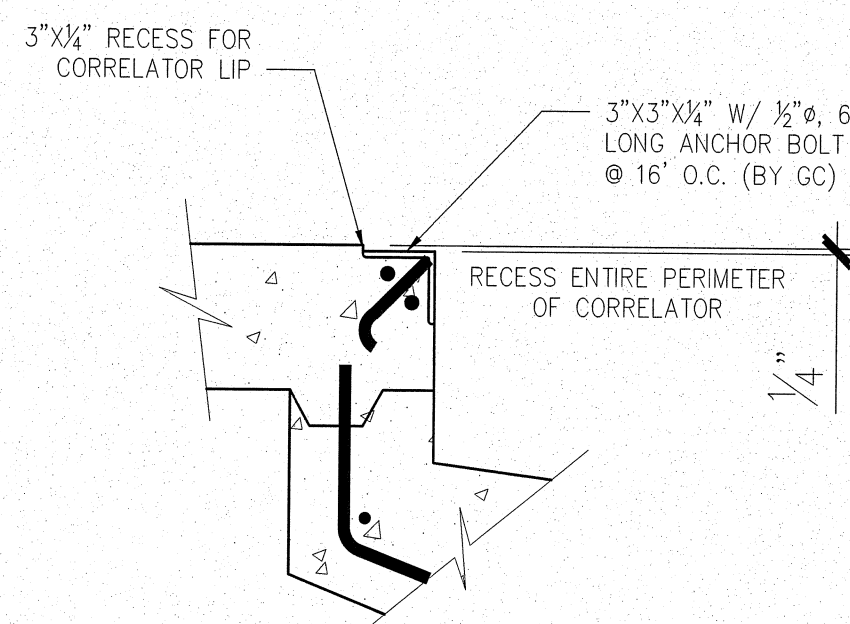
**5 CORRELATOR SECTION**  
S-2.2 SCALE: 3/4" = 1'-0"



**6 DETAIL SECTION**  
S-2.2 SCALE: 1" = 1'-0"



**7 TRENCH DAM SECTION**  
S-2.2 SCALE: 1" = 1'-0"



**8 CORR. LIP ANGLE**  
S-2.2 SCALE: N.T.S.

CONFIRM LAYOUT, STEEL ARRANGEMENT AND SLOPES WITH FINAL EQUIPMENT SUPPLIER DETAILS PRIOR TO CONCRETE PLACEMENT

- TRENCH NOTES:**
1. PRIOR TO THE BEGINNING OF WORK, ALL CONCRETE STRUCTURES SHALL BE REVIEWED BY THE EQUIPMENT SUPPLIER TO VERIFY ALL DIMENSIONAL REQUIREMENTS AND TO COORDINATE FINAL PIT LOCATION.
  2. WHERE TRENCH WALL & SLAB ARE NOT POURED MONOLITHICALLY, INSTALL PVC WATER STOP AND KEYWAY.
  3. SEE STRUCTURAL NOTES ON S-1.0 FOR TYPICAL CONCRETE AND REINFORCING REQUIREMENTS.

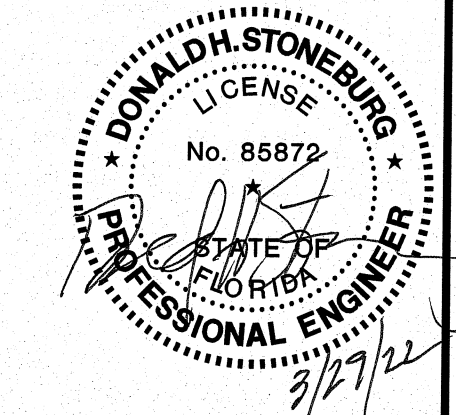
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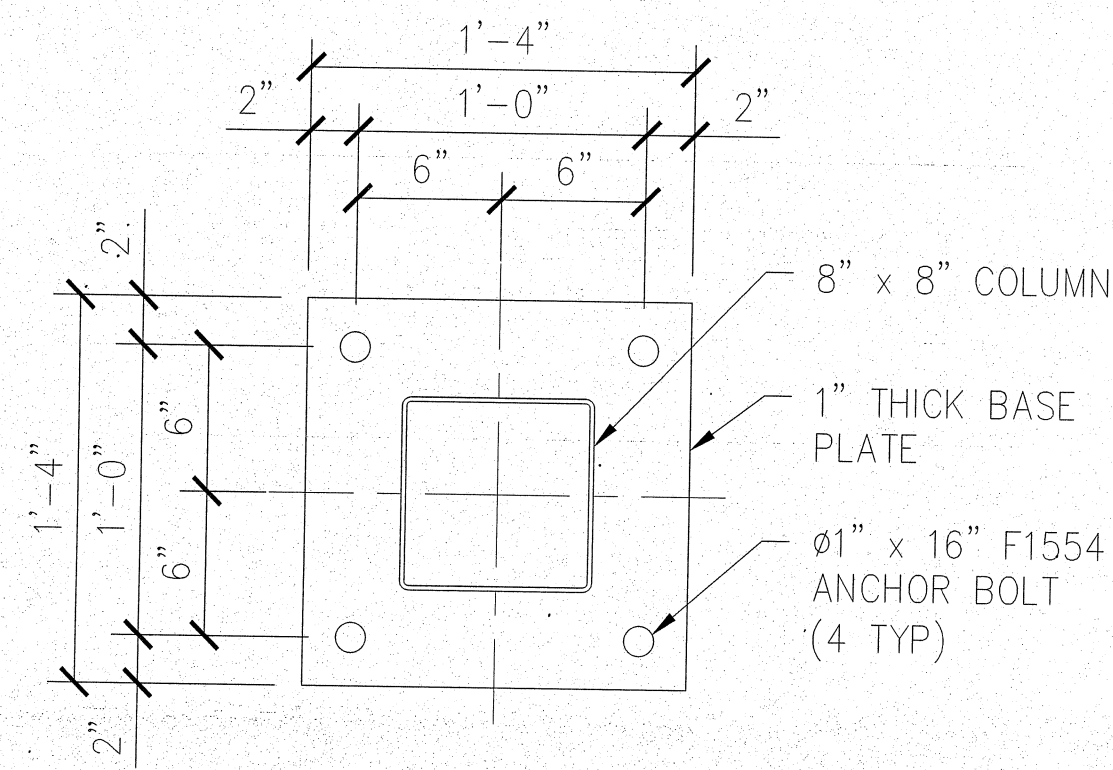
PROJECT NUMBER:
22-1017

Star Wash Express  
925 LOCKWOOD BLVD.  
OVIEDO, FL 32745

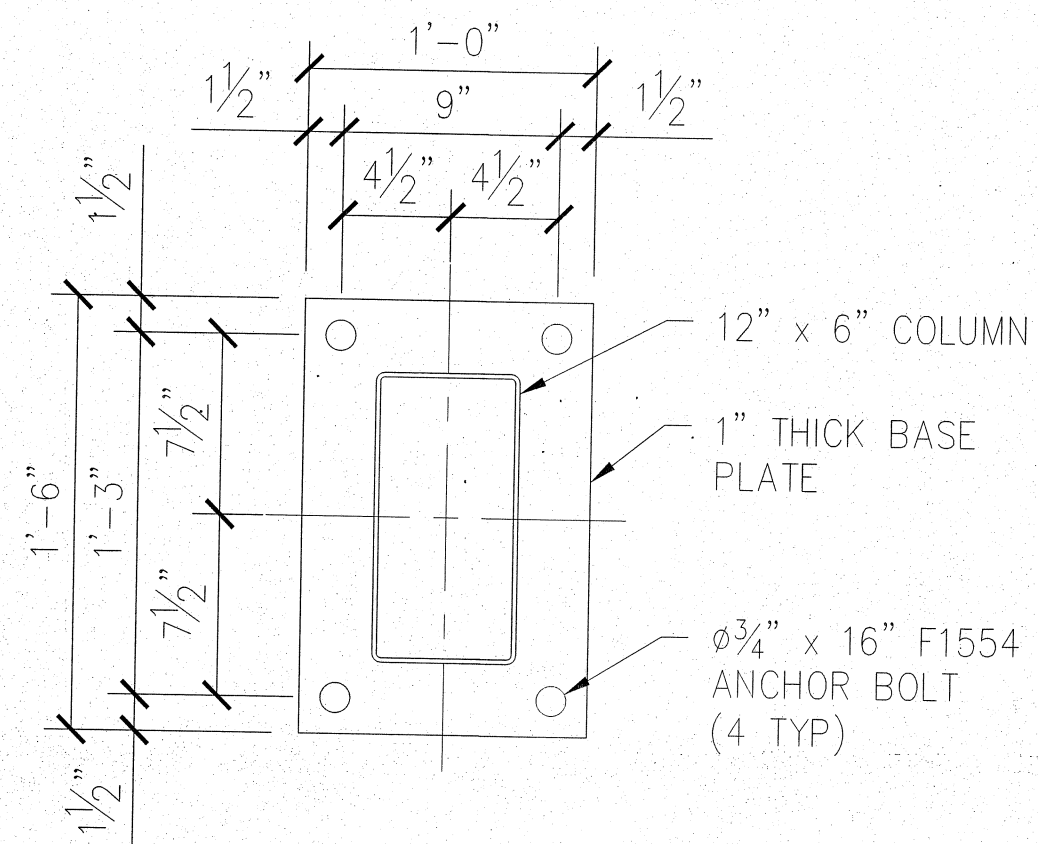
Trench Details

PROJECT NUMBER:	SCALE:	AS NOTED	PLOT DATE:	DRAWN BY:
22-1017	AS NOTED	AS NOTED		MKG

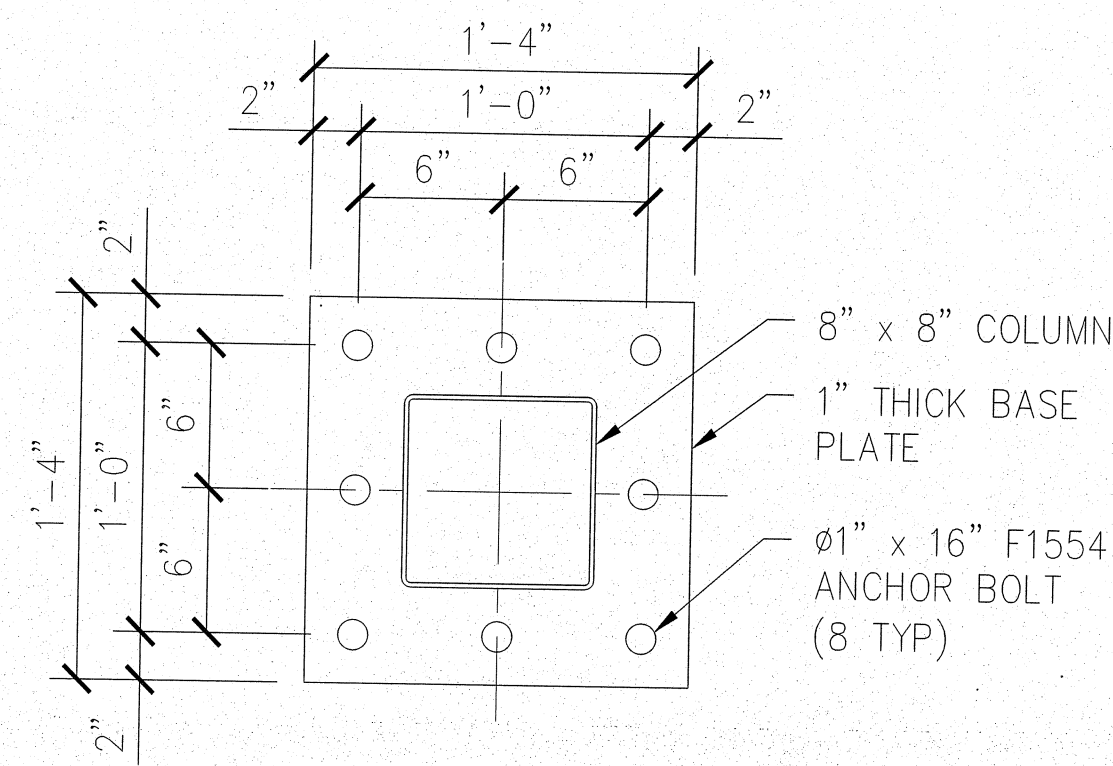
SHEET:  
**S-2.2**



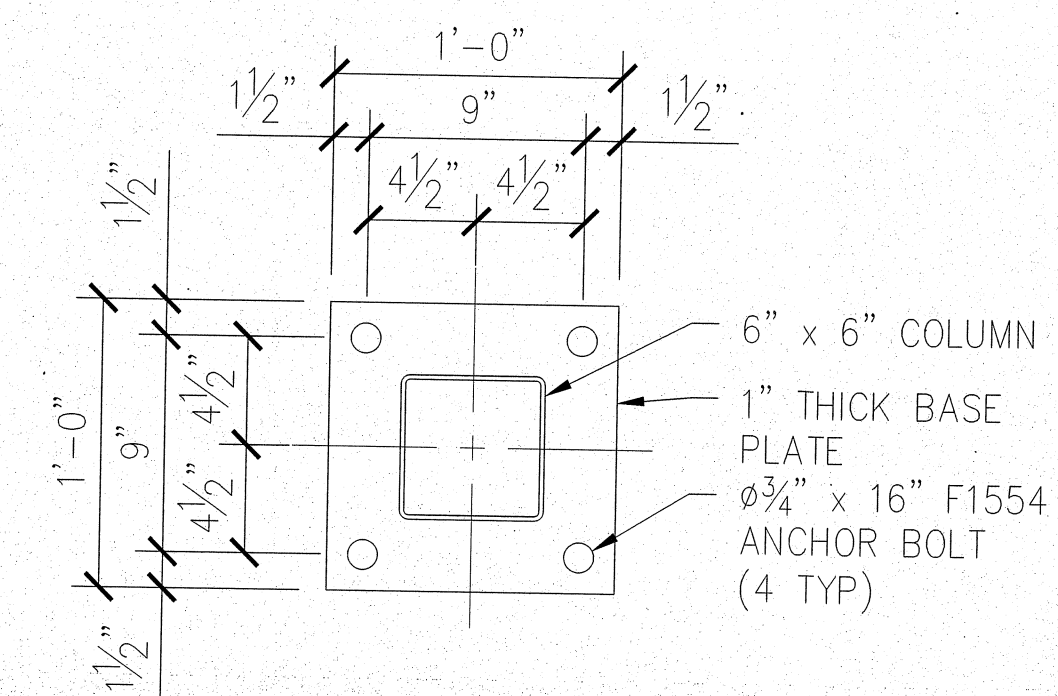
**1 BASE PLATE DETAIL**  
SCALE: N.T.S.



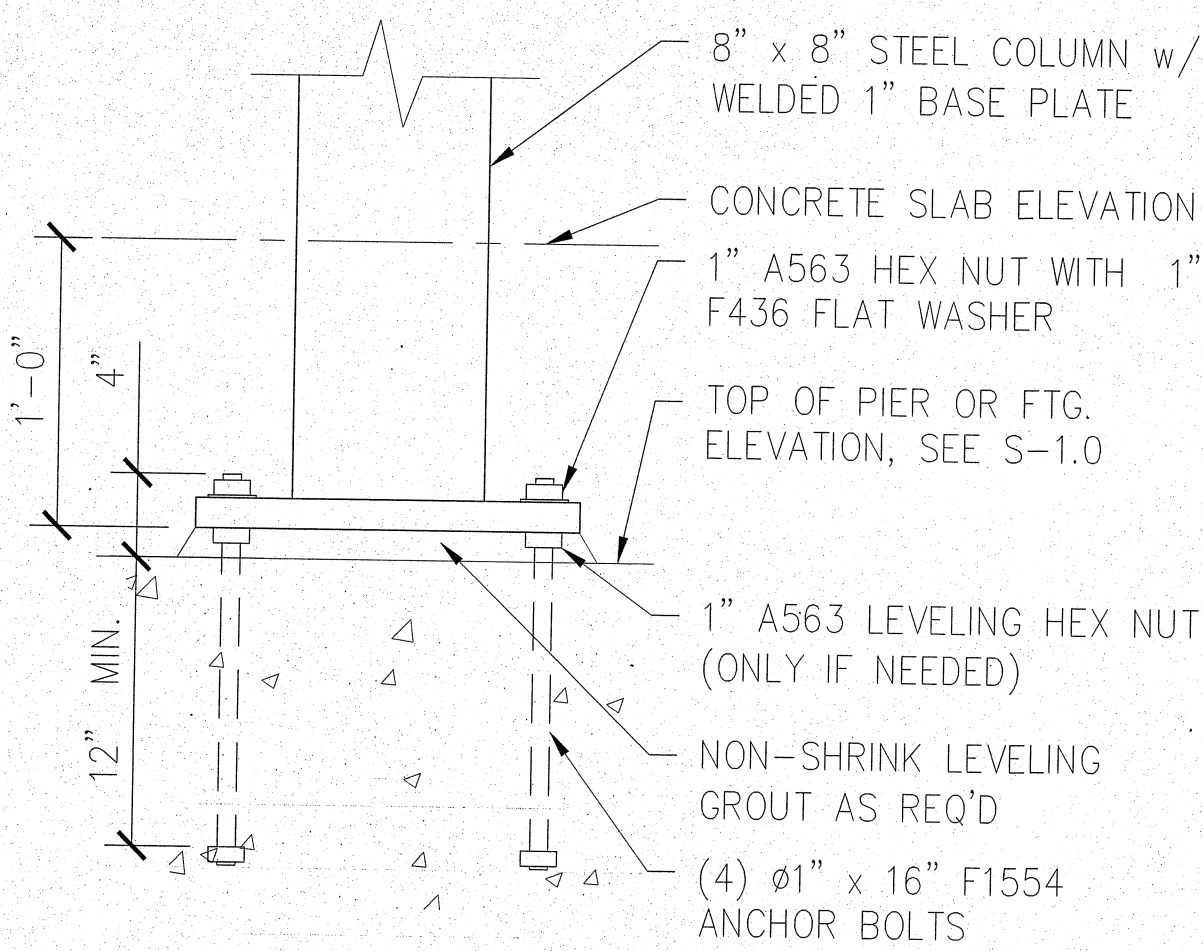
**2 BASE PLATE DETAIL**  
SCALE: N.T.S.



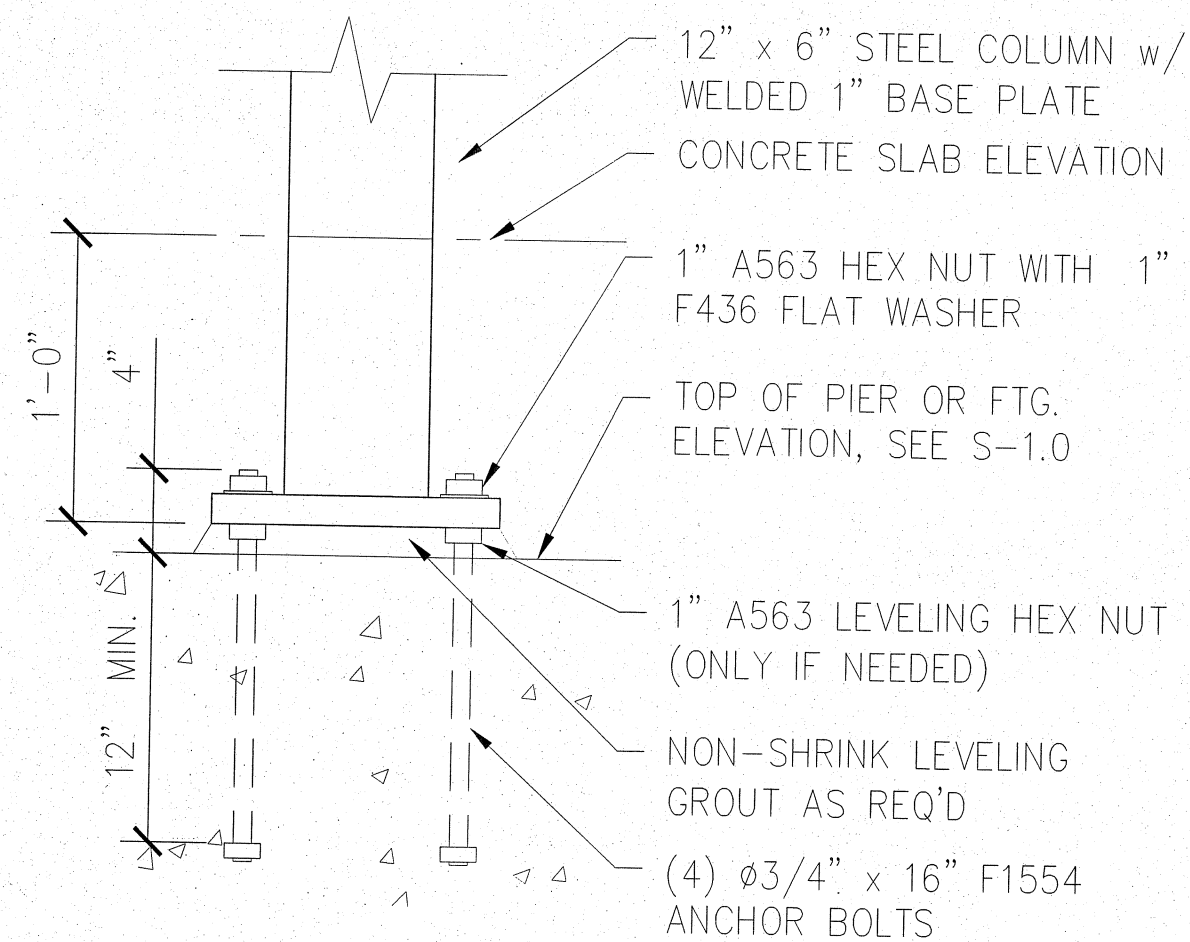
**3 BASE PLATE DETAIL**  
SCALE: N.T.S.



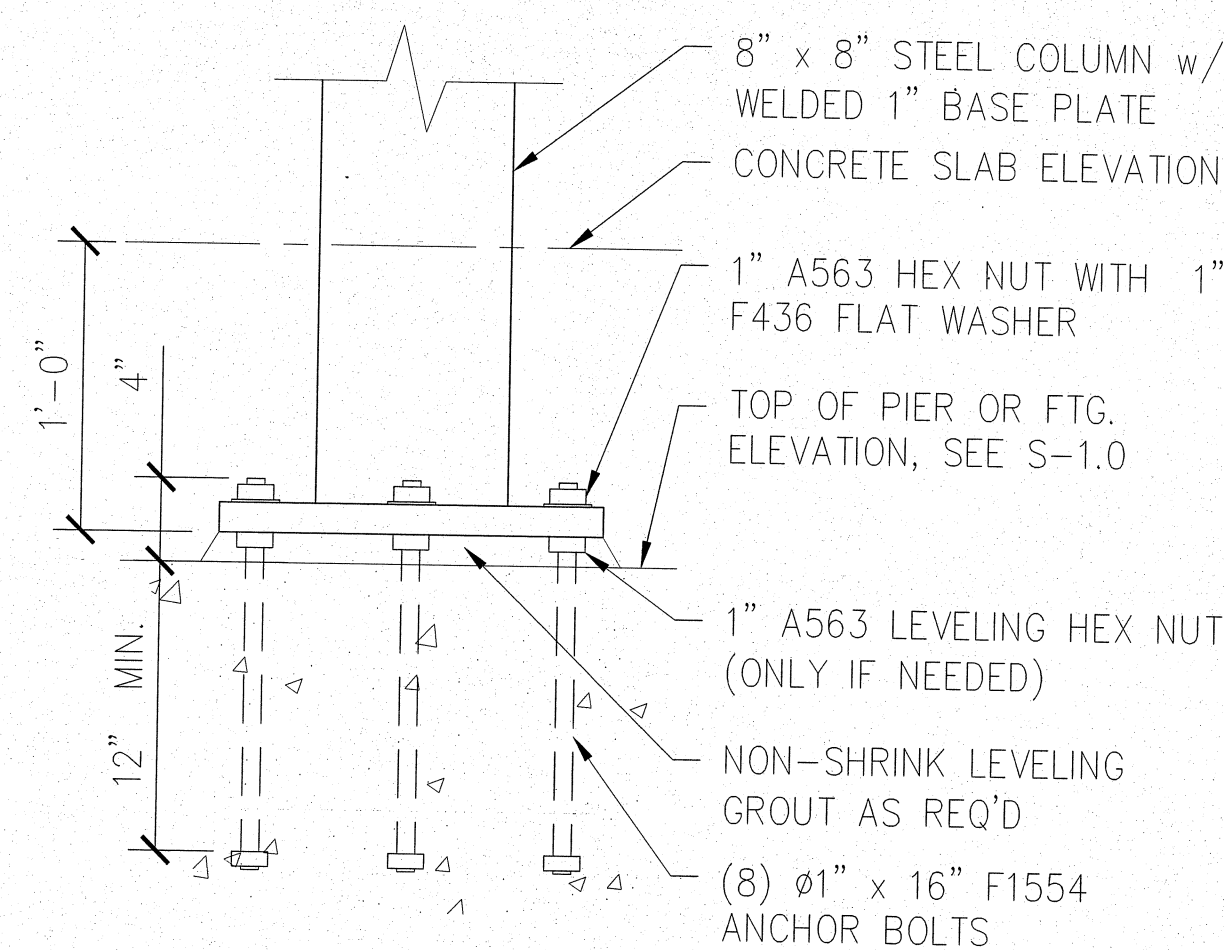
**4 BASE PLATE DETAIL**  
SCALE: N.T.S.



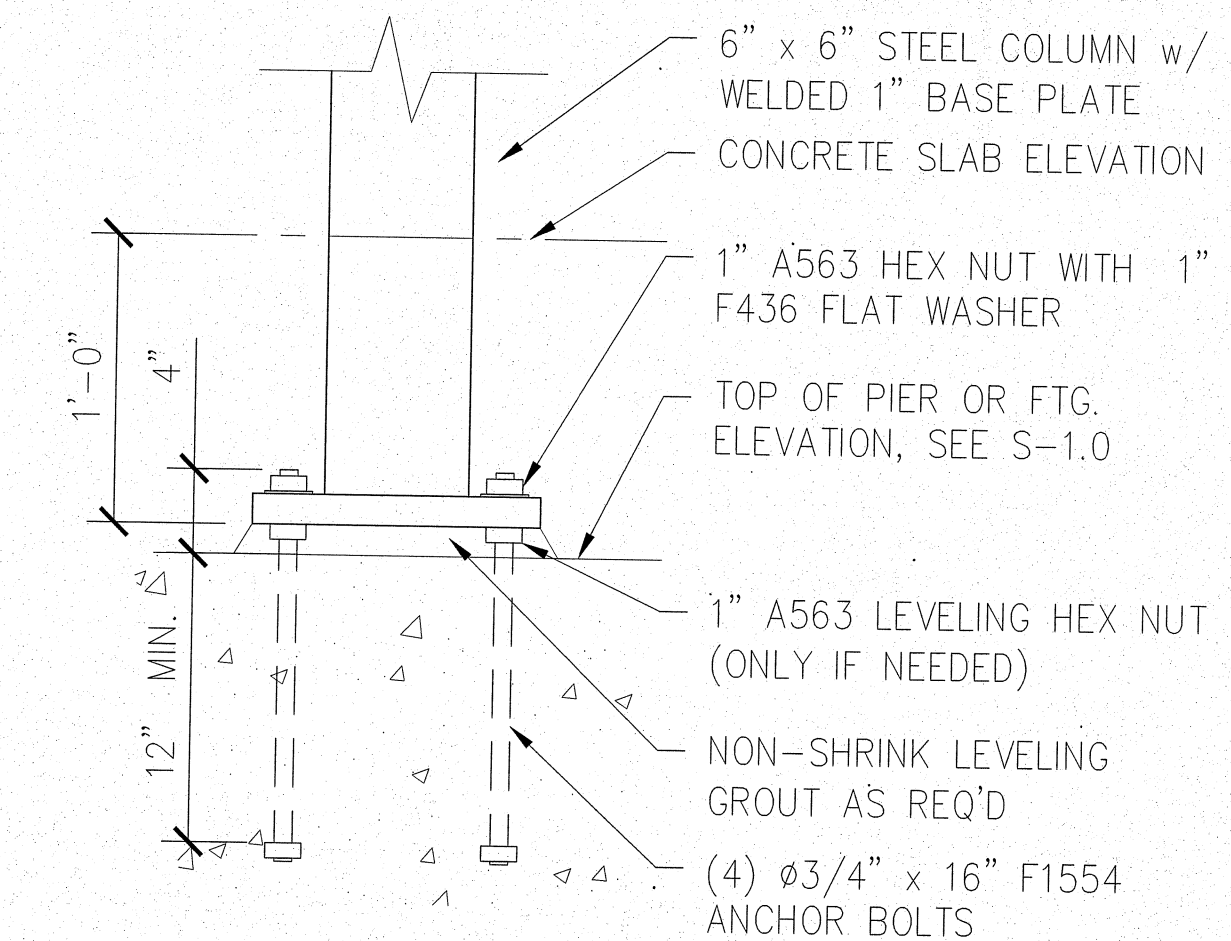
**1A 8" COLUMN DETAIL**  
SCALE: N.T.S.  
ALL OTHER COLUMNS - SEE S-3.1



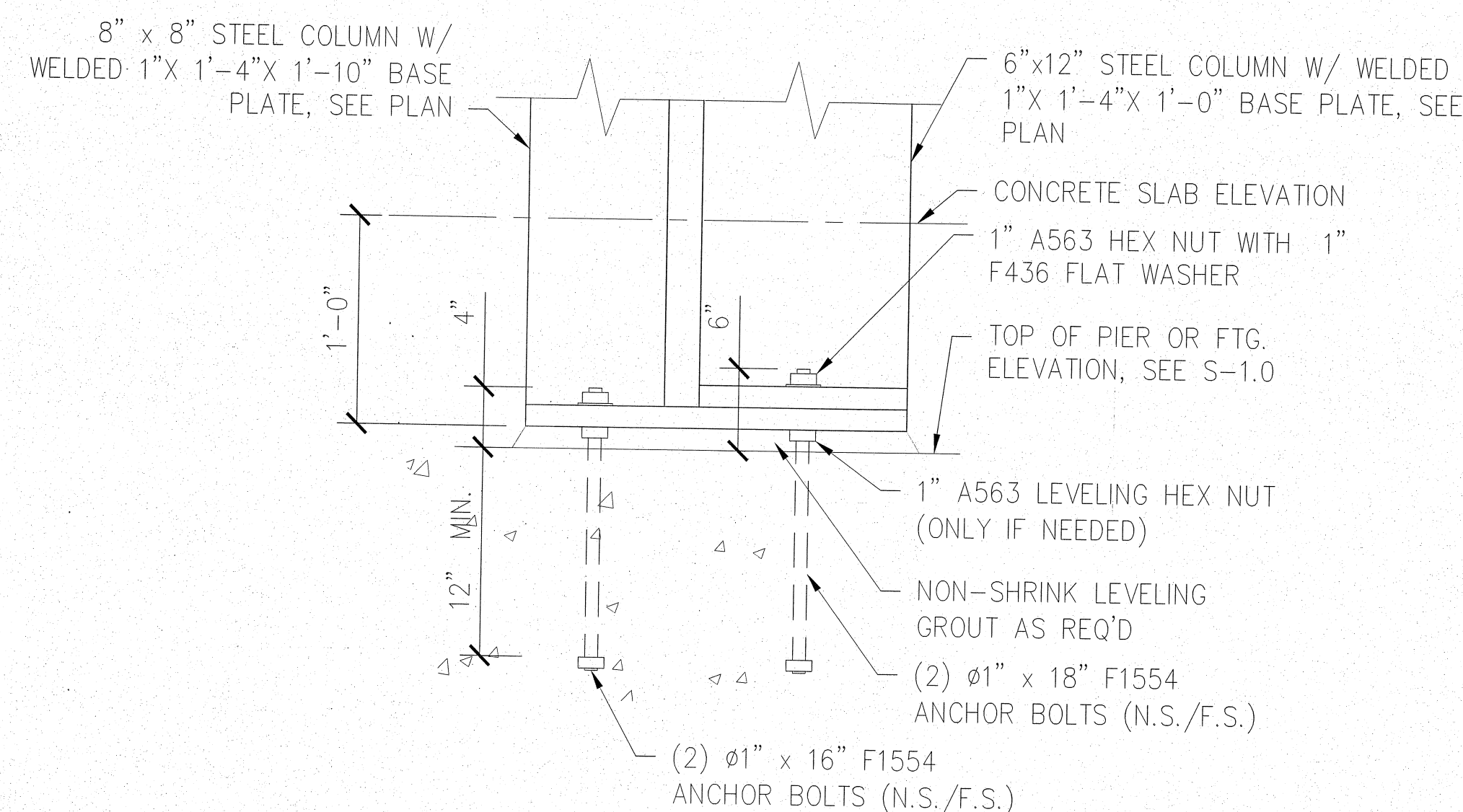
**2A 12"X6" COLUMN DETAIL**  
SCALE: N.T.S.  
COLUMN/HEADER BEAM HD2/HD2 - SEE S-3.2



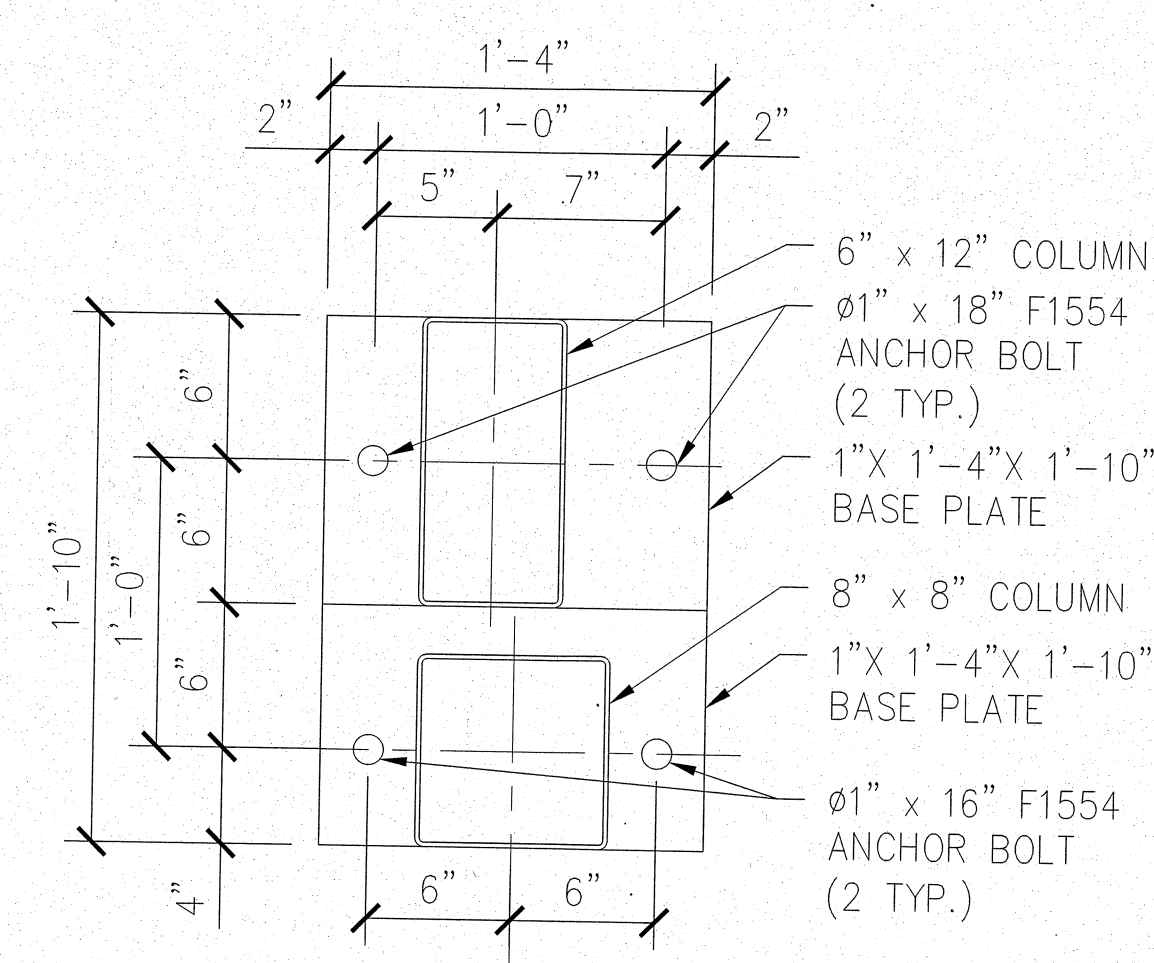
**3A 8" COLUMN DETAIL**  
SCALE: N.T.S.  
COLUMNS CC1/CD1 & (1)CD2  
SEE S-3.1 AND S-1.0



**4A 6" COLUMN DETAIL**  
SCALE: N.T.S.  
COLUMNS CE1 SEE S-3.1 AND S-1.0



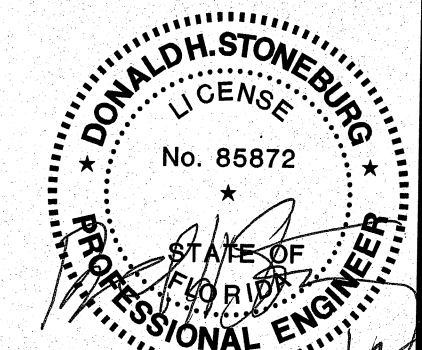
**5 COMBINED COLUMN DETAIL**  
SCALE: N.T.S.  
COMBINED COLUMN/HEADER BEAM HD1 - SEE S-3.1



**5A COMBINED COLUMN BASEPLATE DETAIL**  
SCALE: N.T.S.

- NOTES:**
- PRE-ASSEMBLE THE ANCHOR BOLT BRACING TEMPLATES AND SET ASIDE UNTIL CONCRETE FOOTINGS HAVE BEEN POURED.
  - ALL FOOTING TOP LEVELS ARE LEVEL AND AT THE SAME ELEVATION UNLESS NOTED OTHERWISE ON S-1.0.
  - PLACE ANCHOR BOLT BRACING TEMPLATES INTO WET CONCRETE AND ALIGN BOLTS AS SHOWN IN THE "FOOTING LAYOUT PLAN." POSITION CENTER OF BASE PLATES WITH STRING CENTERLINES USED DURING LAYOUT. CHECK FOR LEVEL SURFACE AND ADJUST AS NECESSARY. IT IS VERY IMPORTANT THAT BOLT ALIGNMENT FOR EACH FOOTING IS PRECISELY ORIENTATED AS SHOWN IN THE "FOOTING LAYOUT PLAN."
  - REMOVE AND DISCARD ANCHOR BOLT BRACING TEMPLATES FROM ANCHOR BOLTS ONCE THE CONCRETE HAS HARDENED AND REACHED FULL STRENGTH (48 HOURS MINIMUM). SAVE HEX NUTS TO USE FOR COLUMN ASSEMBLY LATER.
  - VERIFY THAT FOOTINGS ARE LEVEL AND UNIFORM ONCE THE CONCRETE HAS SET AND HARDENED. IF FOOTINGS ARE NOT LEVEL WITH EACH OTHER LEVELING NUTS CAN BE USED BELOW THE COLUMN BASE PLATES AND ADJUSTED AS NEEDED TO BRING THE BASE PLATES TO A UNIFORM LEVEL. USE NON-SHRINK GROUT BELOW THE BASE PLATE WHEN USING LEVELING NUTS AND ALLOW GROUT TO HARDEN BEFORE INSTALLING COLUMNS.

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Florida P.E. No. 85872

CONSULTANT
STAMP:

PROJECT NUMBER: 22-1017
FILE NAME: AS NOTED
SCALE: AS NOTED
PLOT DATE:
DRAWN BY: MKG

Star Wash Express  
925 LOCKWOOD BLVD.  
OVIEDO, FL 32765

Column Base Plate & Details

DRAWINGS FOR:
PROJECT NUMBER: 22-1017
FILE NAME: AS NOTED
SCALE: AS NOTED
PLOT DATE:
DRAWN BY: MKG

SHEET: S-3.0

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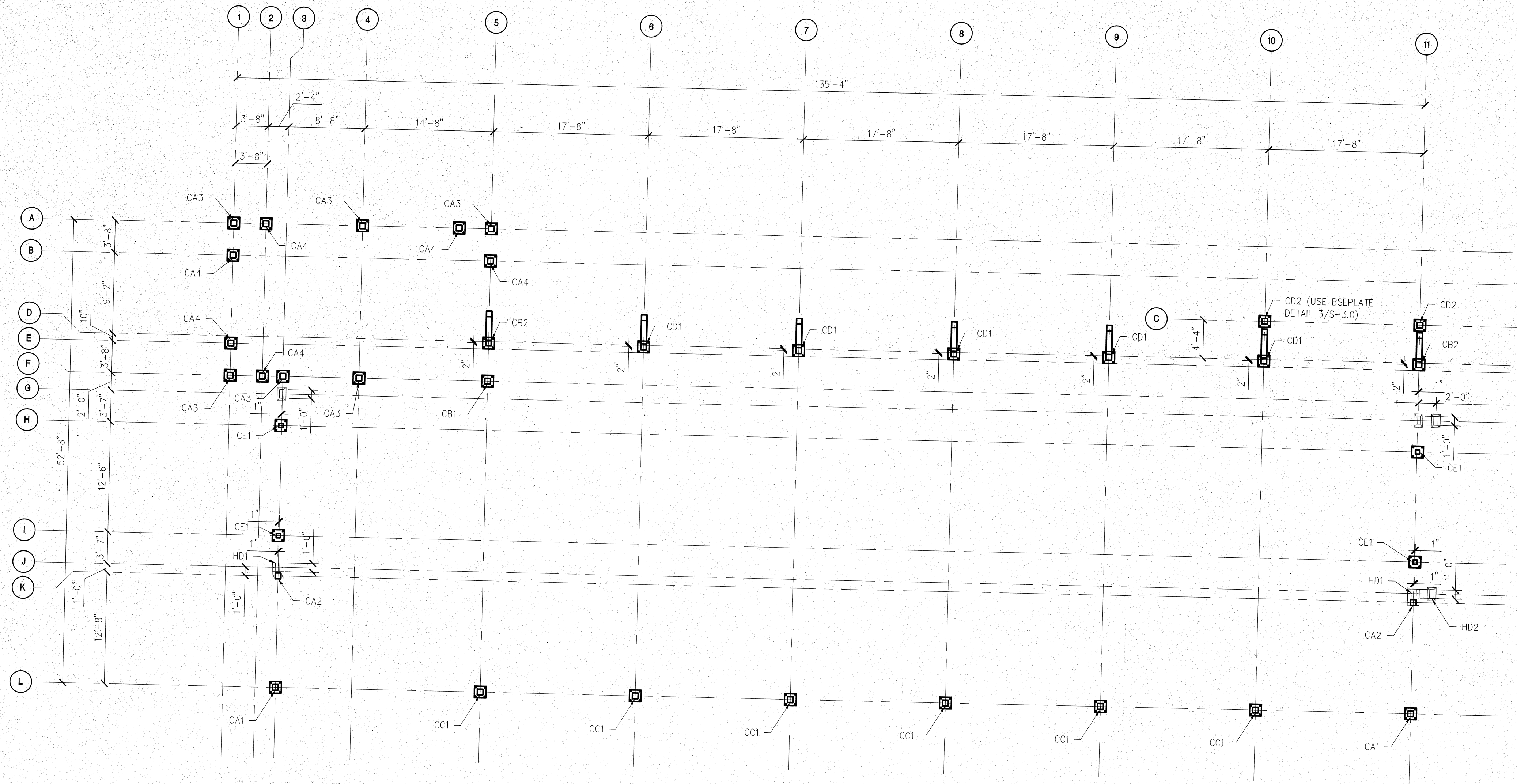
CONSULTANT
STAMP:

PROJECT NUMBER: 22-1017  
 FILENAME:  
 SCALE: AS NOTED  
 PLOT DATE:  
 DRAWN BY: MKG

DRAWINGS FOR: **Star Wash Express**  
 925 LOCKWOOD BLVD.  
 OVIEDO, FL 32765

SHEET TITLE: **Column Layout Plan**

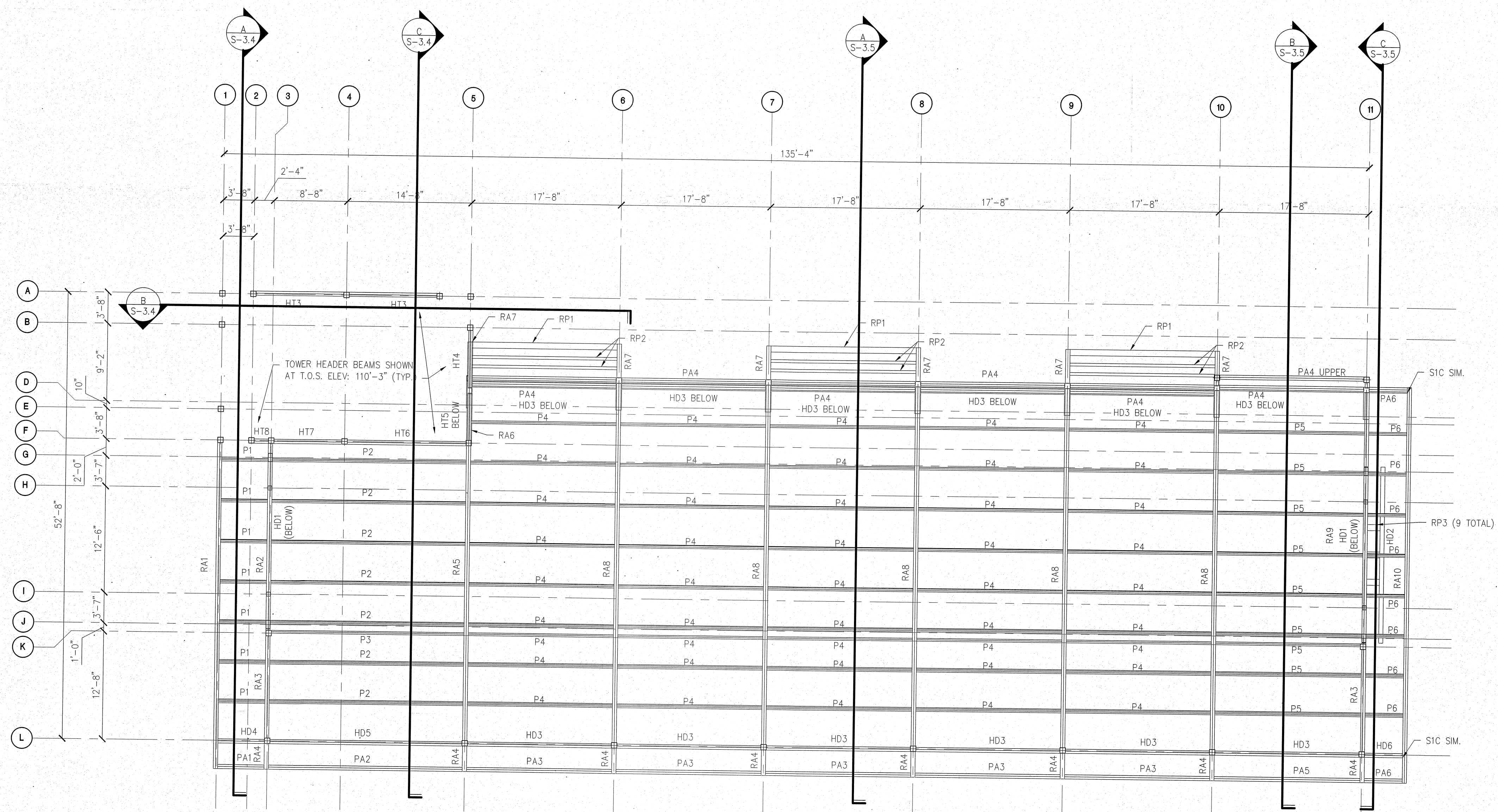
SHEET: **S-3.1**



**A** COLUMN LAYOUT PLAN  
 S-3.1 SCALE: 1/8" = 1'-0"

NOTES:  
 1. REFER TO BASE PLATE DETAILS ON SHEET S-3.0.  
 2. REFER TO S-1.0 FOR FOUNDATION INFORMATION.





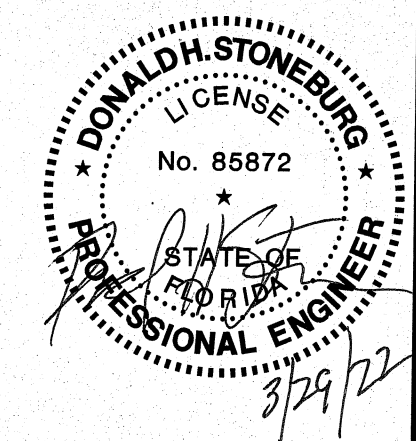
**A** STEEL FRAMING PLAN  
 S-3.2 SCALE: 1/8" = 1'-0"

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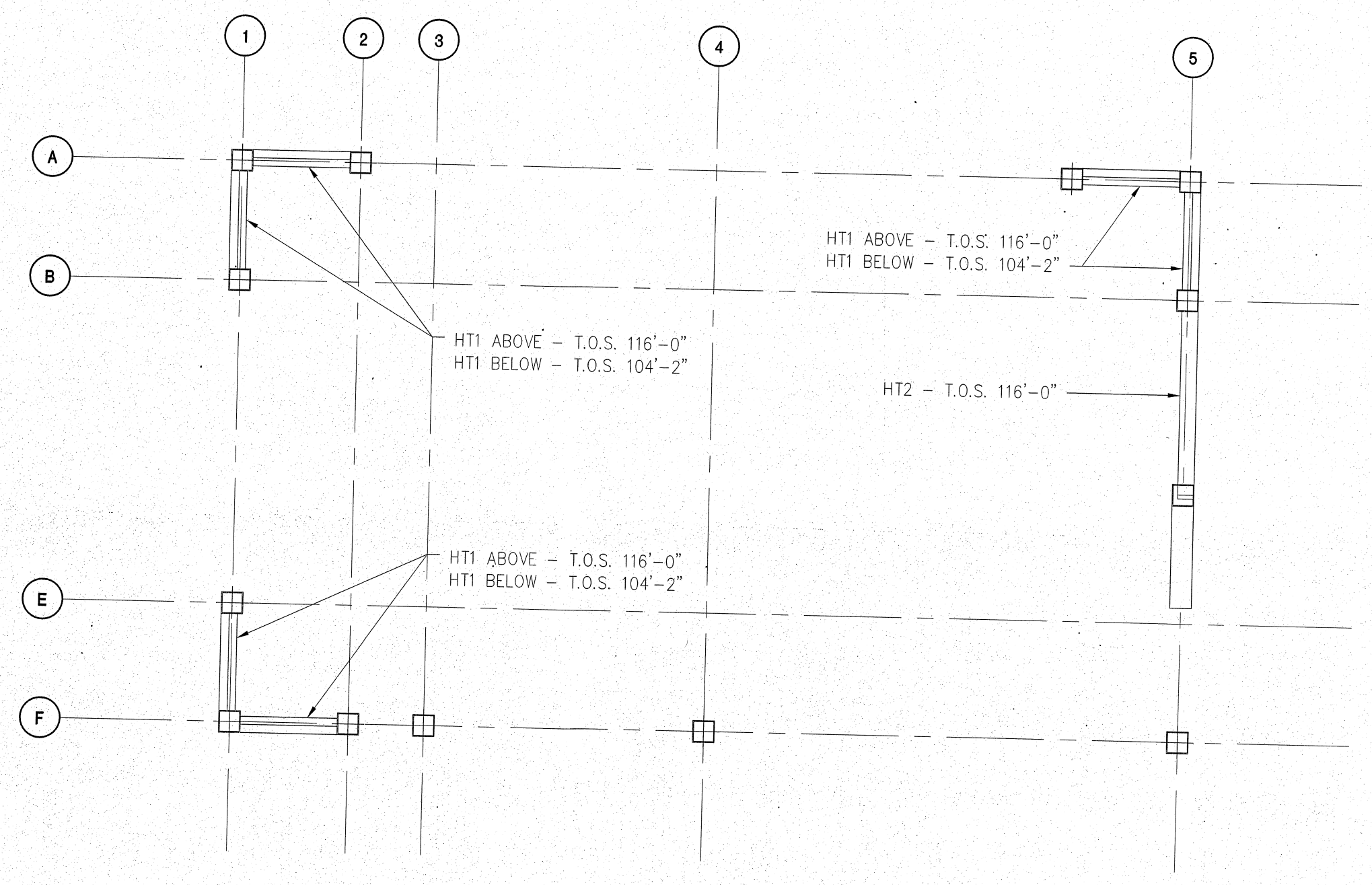
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 PLOT DATE:  
 DRAWN BY: MKG

Star Wash Express  
 925 LOCKWOOD BLVD.  
 OVIEDO, FL 32765

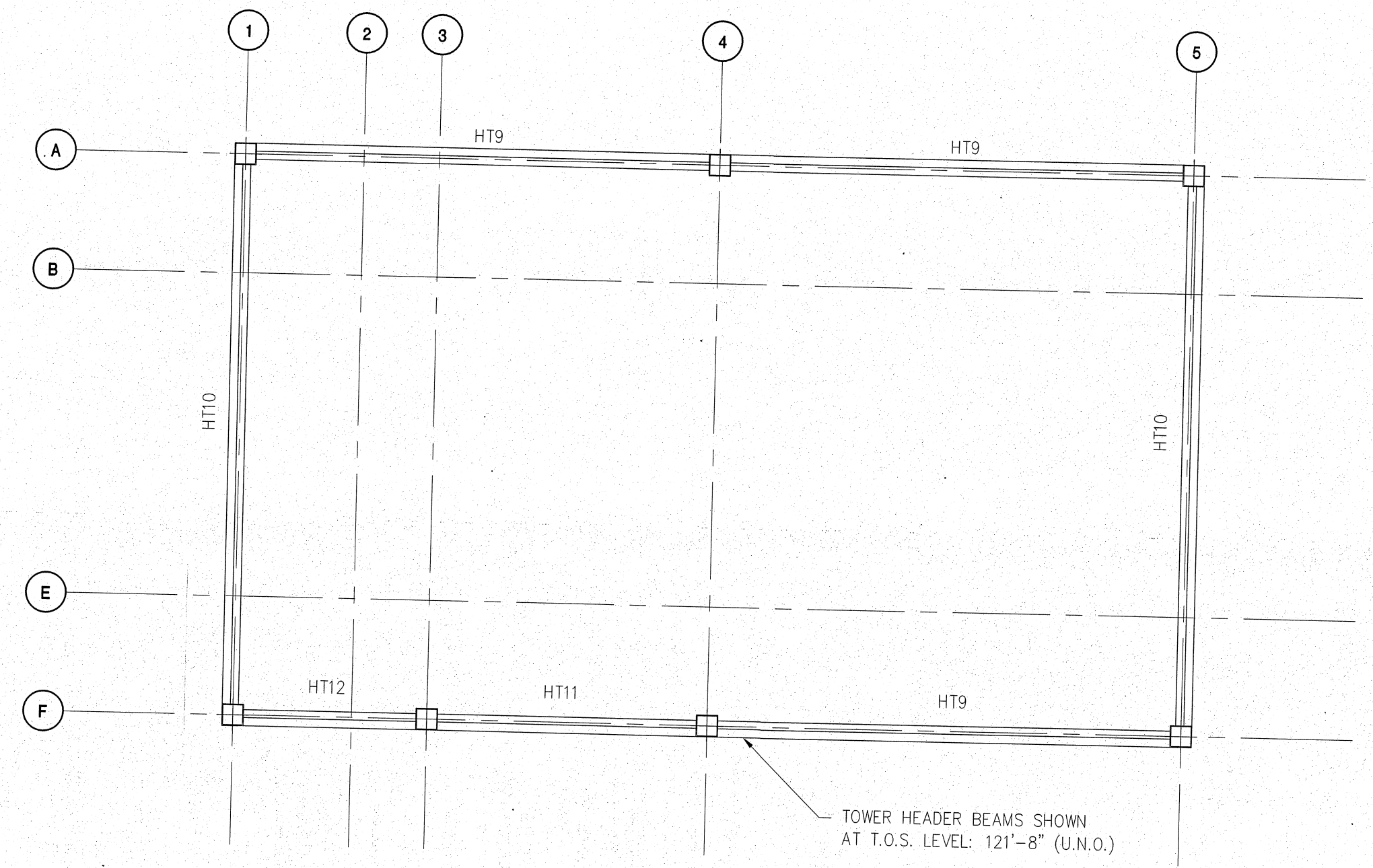
Steel Framing Plan

PROJECT NUMBER: 22-1017  
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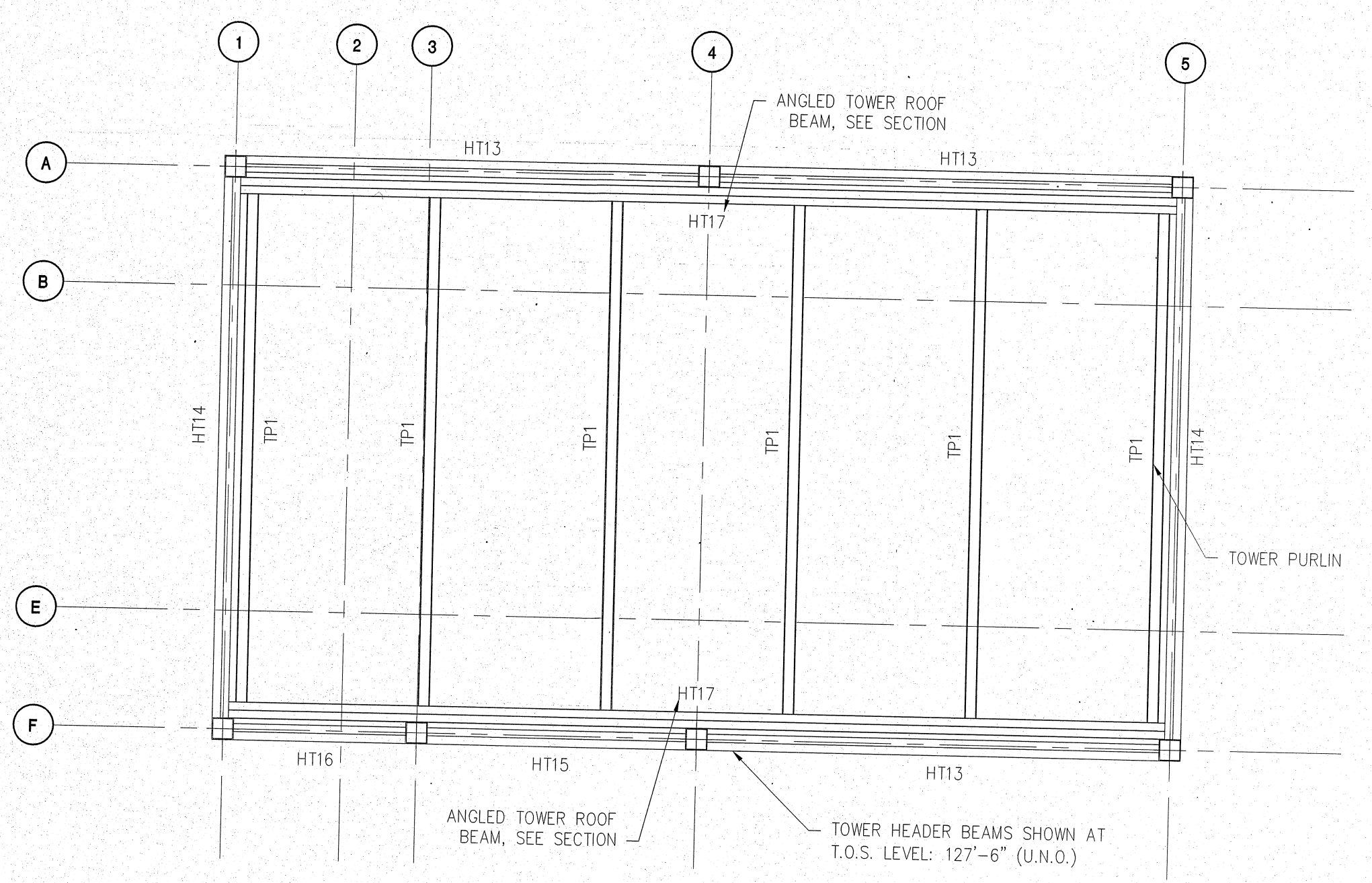
SHEET: **S-3.2**



**A TOWER FRAMING PLAN**  
S-3.3 SCALE: 1/4" = 1'-0"



**B TOWER FRAMING PLAN**  
S-3.3 SCALE: 1/4" = 1'-0"



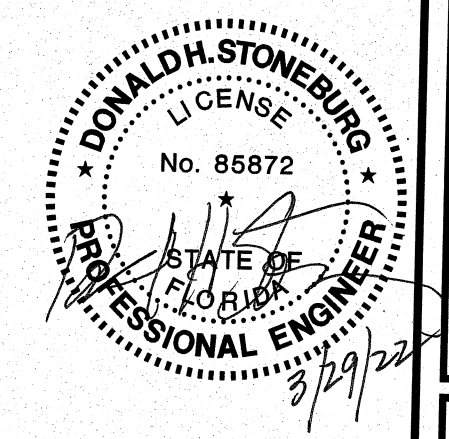
**C UPPER TOWER FRAMING PLAN**  
S-3.3 SCALE: 1/4" = 1'-0"

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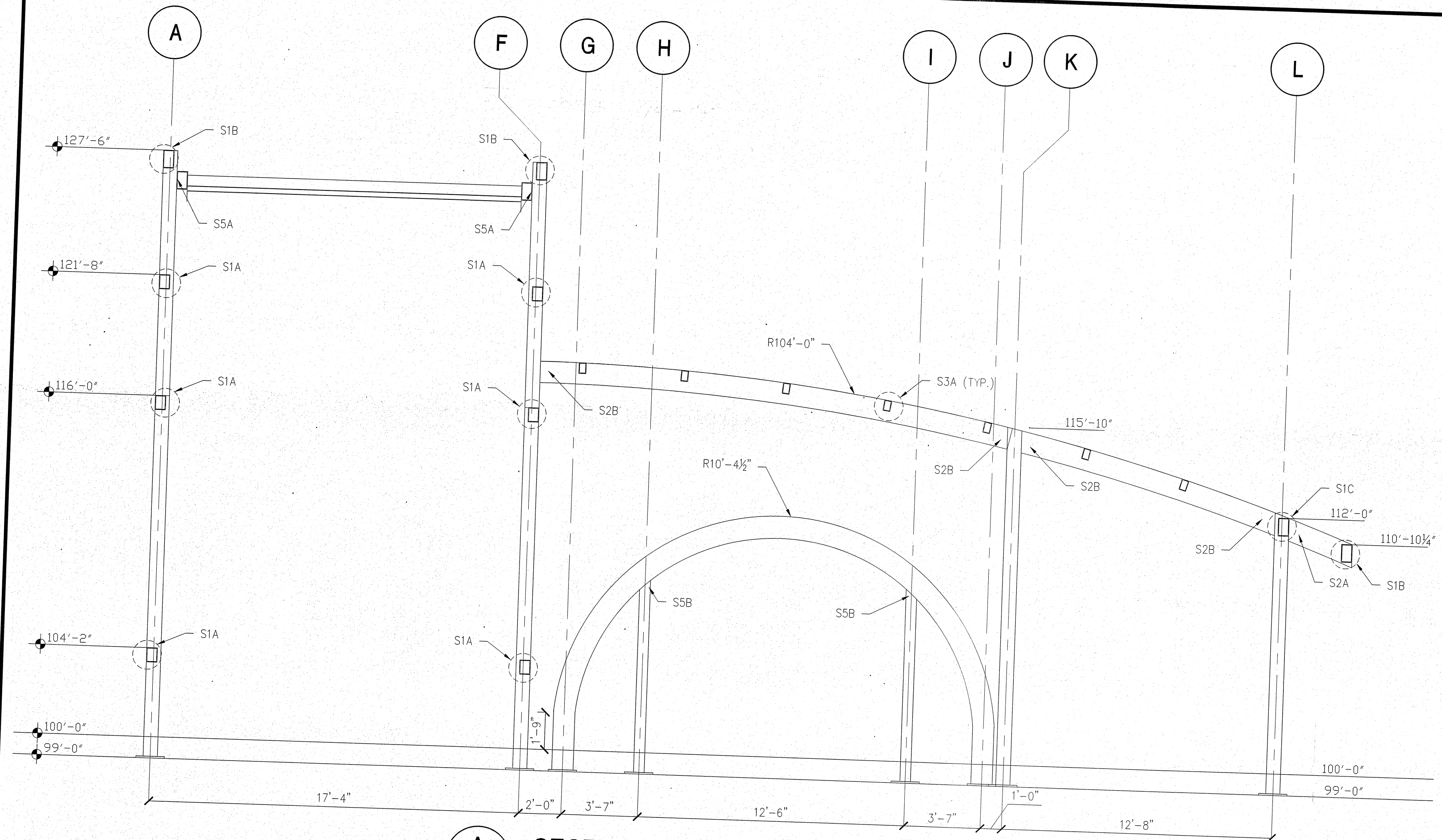
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DRAWN BY: MKG

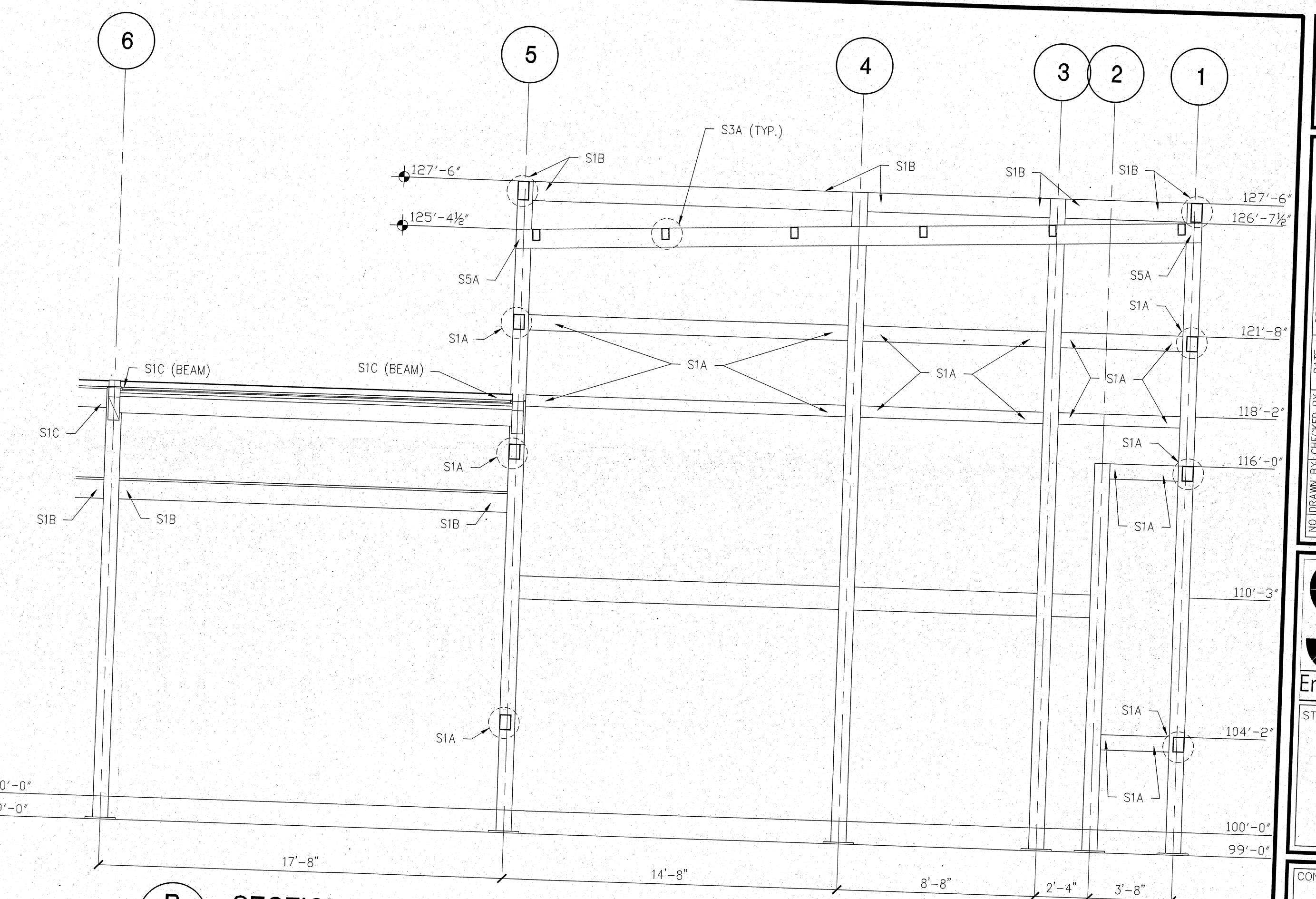
DRAWINGS FOR: **Star Wash Express**  
925 LOCKWOOD BLVD.  
OWIEDO, FL 32765

SHEET TITLE: **Steel Framing Plan**

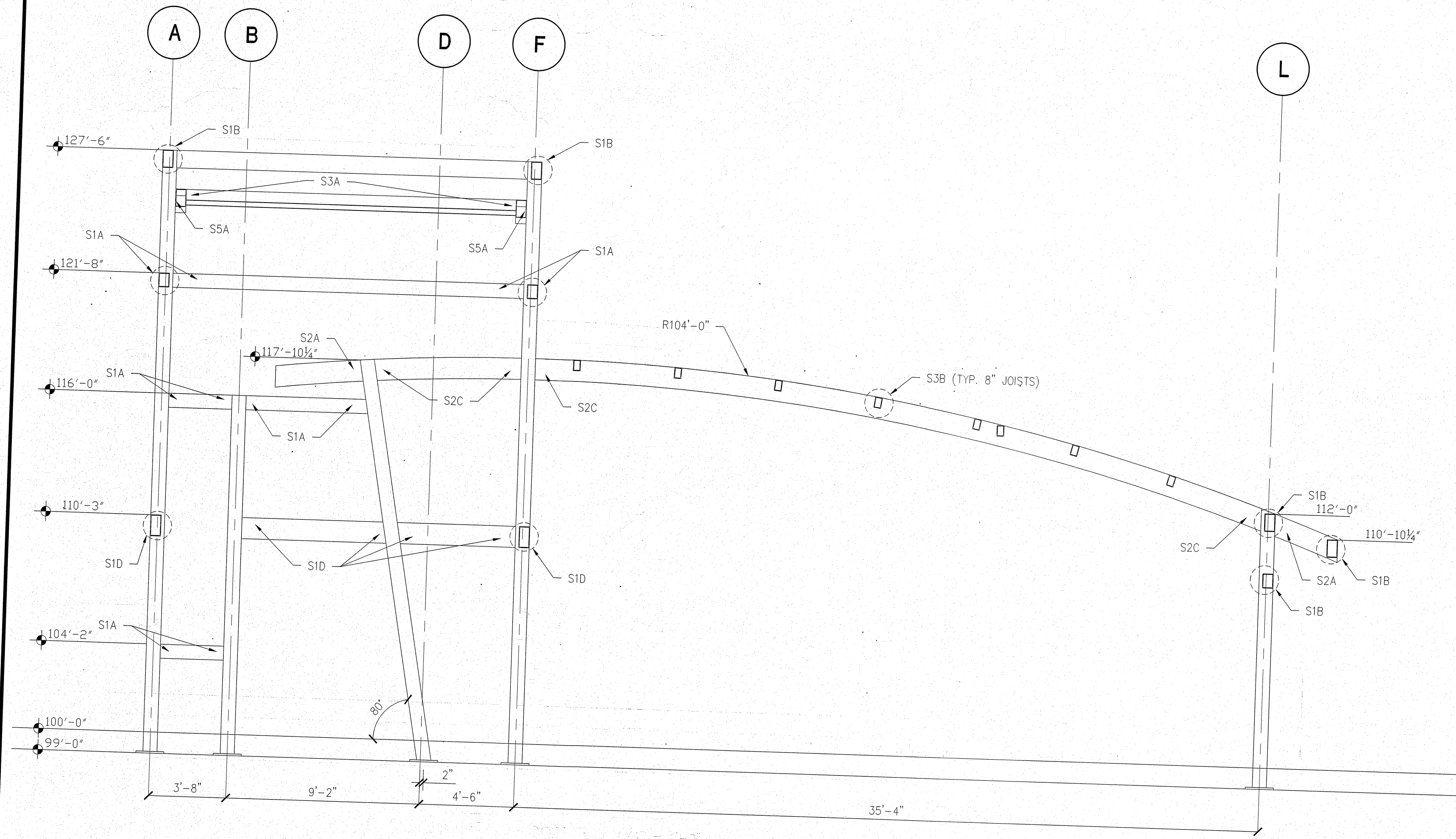
SHEET: **S-3.3**



**A SECTION NEAR COL. LINE 1**  
 S-3.4 SCALE: 1/4" = 1'-0"



**B SECTION NEAR COL. LINE B**  
 S-3.4 SCALE: 1/4" = 1'-0"



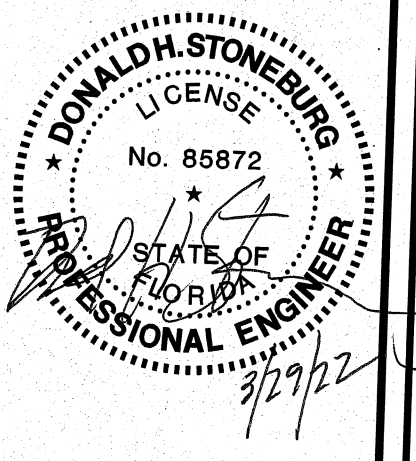
**C SECTION NEAR COL. LINE 5**  
 S-3.4 SCALE: 1/4" = 1'-0"

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CONSULTANT
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DRAWINGS FOR:  
**Star Wash Express**  
 925 LOCKWOOD BLVD.  
 OVIEDO, FL 32765

SHEET TITLE:  
**Framing Sections**

PROJECT NUMBER: 22-1017	SCALE: AS NOTED
FILENAME:	PLOT DATE:
DRAWN BY: MKG	

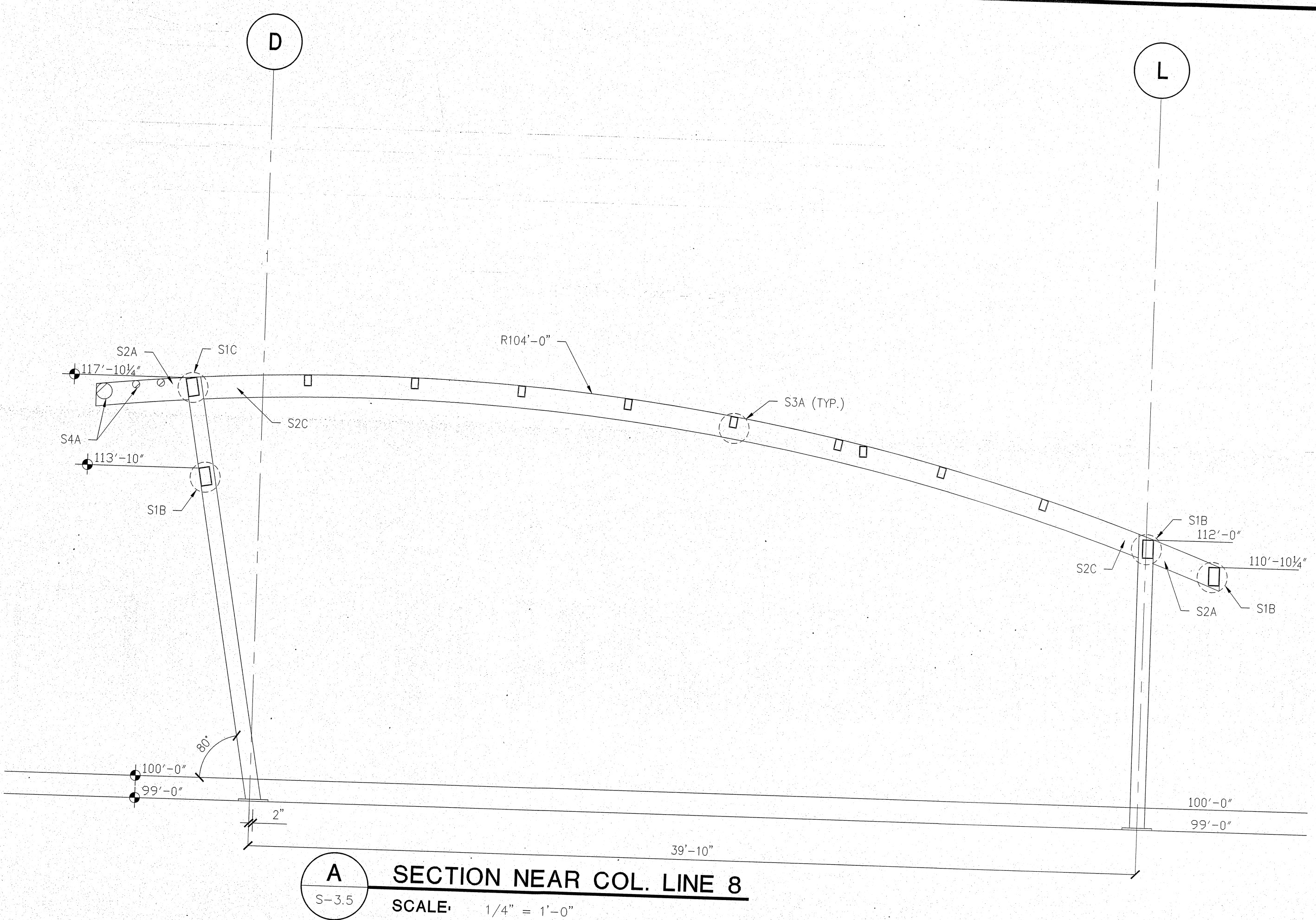
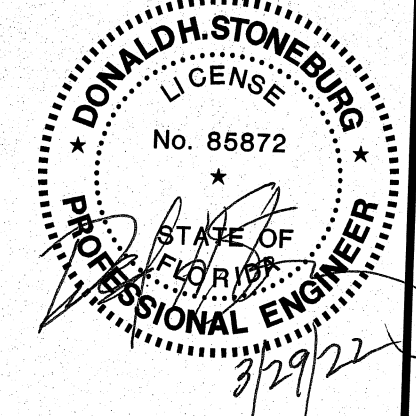
SHEET:  
**S-3.4**

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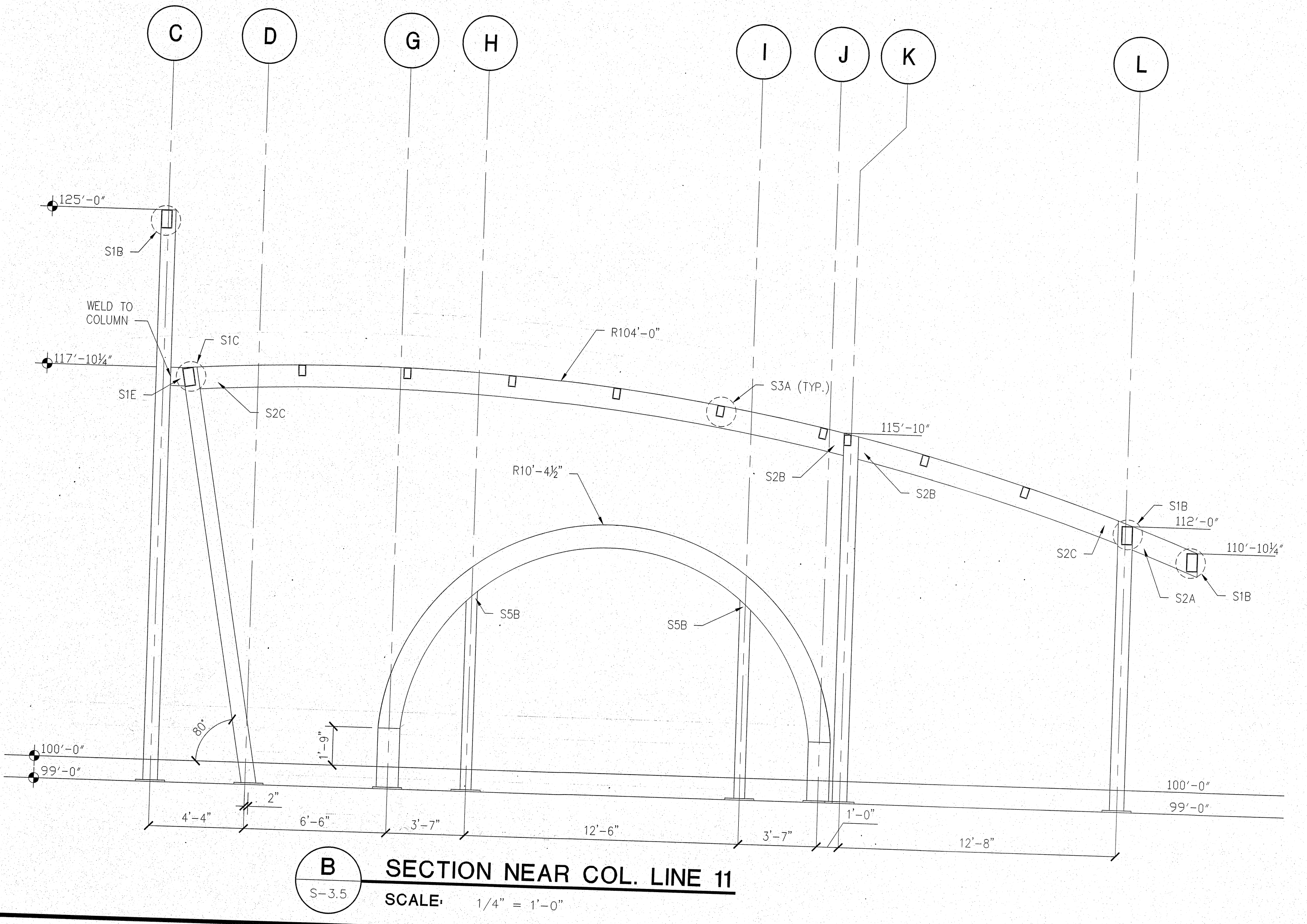
NO.	DATE	DESCRIPTION
1	03/29/22	IFP CONSTRUCTION

**S.E. Engineering**  
 1733 Campus Plaza Court,  
 Suite 10  
 Bowling Green, KY 42101  
 Phone: 270-796-3022  
 Fax: 270-842-3102

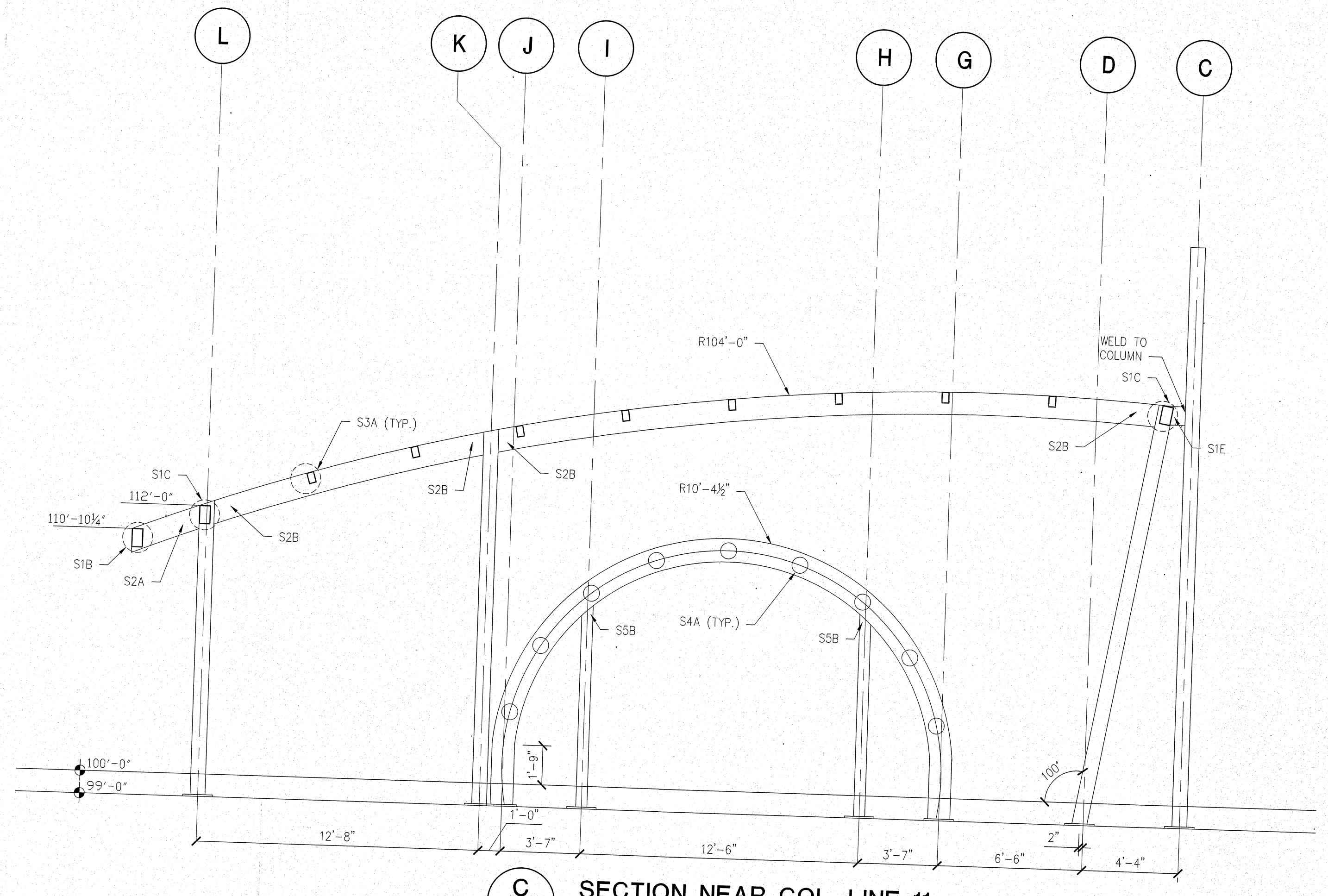
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 Florida P.E. No. 85872



**A SECTION NEAR COL. LINE 8**  
 S-3.5 SCALE: 1/4" = 1'-0"



**B SECTION NEAR COL. LINE 11**  
 S-3.5 SCALE: 1/4" = 1'-0"



**C SECTION NEAR COL. LINE 11**  
 S-3.5 SCALE: 1/4" = 1'-0"

CONSULTANT

STAMP:

Star Wash Express  
 925 LOCKWOOD BLVD.  
 OVIEDO, FL 32765

SHEET TITLE:  
**Framing Sections**

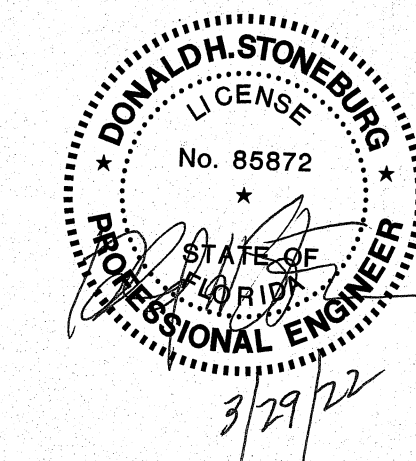
DRAWINGS FOR:

PROJECT NUMBER:	22-1017
FILENAME:	
SCALE:	AS NOTED
PLOT DATE:	
DRAWN BY:	MKG

SHEET:  
**S-3.5**

FRAMING		
ITEM	SIZE	QUANTITY
COLUMN (CA1)	8" X 8" X 3/16" X 13'-2 7/8"	2
COLUMN (CA2)	8" X 8" X 3/16" X 16'-10"	2
COLUMN (CA3)	8" X 8" X 3/16" X 28'-6"	6
COLUMN (CA4)	8" X 8" X 3/16" X 17'-0"	6
COLUMN (CB1)	8" X 8" X 1/4" X 28'-6"	1
COLUMN (CB2)	8" X 8" X 1/4" X 19'-2 3/8"	2
COLUMN (CC1)	8" X 8" X 5/16" X 13'-2 7/8"	6
COLUMN (CD1)	8" X 8" X 1/2" X 19'-2 3/8"	5
COLUMN (CD2)	8" X 8" X 5/16" X 26'-0"	2
COLUMN (CE1)	6" X 6" X 3/16" X 9'-1"	4
TOWER BEAM (HT1)	8" X 6" X 3/16" X 3'-0"	12
TOWER BEAM (HT2)	8" X 6" X 3/16" X 5'-9 1/4"	1
TOWER BEAM (HT3)	12" X 6" X 3/16" X 10'-4"	2
TOWER BEAM (HT4)	12" X 6" X 3/16" X 6'-10 1/2"	1
TOWER BEAM (HT5)	12" X 6" X 3/16" X 5'-7 1/2"	1
TOWER BEAM (HT6)	12" X 6" X 3/16" X 14'-0"	1
TOWER BEAM (HT7)	12" X 6" X 3/16" X 8'-0"	1
TOWER BEAM (HT8)	12" X 6" X 3/16" X 1'-8"	1
TOWER BEAM (HT9)	8" X 6" X 3/16" X 14'-0"	3
TOWER BEAM (HT10)	8" X 6" X 3/16" X 16'-8"	2
TOWER BEAM (HT11)	8" X 6" X 3/16" X 8'-0"	1
TOWER BEAM (HT12)	8" X 6" X 3/16" X 5'-4"	1
TOWER BEAM (HT13)	10" X 6" X 3/16" X 14'-0"	3
TOWER BEAM (HT14)	10" X 6" X 3/16" X 16'-8"	2
TOWER BEAM (HT15)	10" X 6" X 3/16" X 8'-0"	1
TOWER BEAM (HT16)	10" X 6" X 3/16" X 5'-4"	1
TOWER BEAM (HT17)	10" X 6" X 3/16" X 30'-0 1/4"	2
TOWER PURLUN (TP1)	6" X 4" X 3/16" X 15'-8"	6

FRAMING		
ITEM	SIZE	QUANTITY
HEADER BEAM (HD1)	12" X 6" X 3/8" X 36'-3 3/4"	2
HEADER BEAM (HD2)	12" X 6" X 3/8" X 34'-8 3/4"	1
HEADER BEAM (HD3)	10" X 6" X 3/16" X 17'-0"	12
HEADER BEAM (HD4)	10" X 6" X 3/16" X 5'-6"	1
HEADER BEAM (HD5)	10" X 6" X 3/16" X 22'-8"	1
HEADER BEAM (HD6)	10" X 6" X 3/16" X 4'-6"	1
PERIMETER PURLIN (PA1)	10" X 6" X 3/16" X 5'-6"	1
PERIMETER PURLIN (PA2)	10" X 6" X 3/16" X 22'-11"	1
PERIMETER PURLIN (PA3)	10" X 6" X 3/16" X 17'-2"	5
PERIMETER PURLIN (PA4)	10" X 6" X 3/16" X 17'-0"	7
PERIMETER PURLIN (PA5)	10" X 6" X 3/16" X 17'-3"	1
PERIMETER PURLIN (PA6)	10" X 6" X 3/16" X 4'-6"	2
RAFTER BEAM (RA1)	12" X 6" X 3/8" X 39'-3-1/8"	1
RAFTER BEAM (RA2)	12" X 6" X 3/8" X 22'-2"	1
RAFTER BEAM (RA3)	12" X 6" X 3/8" X 12'-5 7/8"	2
RAFTER BEAM (RA4)	12" X 6" X 3/8" X 3'-2 1/2"	8
RAFTER BEAM (RA5)	12" X 6" X 3/8" X 35'-4 1/8"	1
RAFTER BEAM (RA6)	12" X 6" X 3/8" X 6'-11-7/8"	1
RAFTER BEAM (RA7)	12" X 6" X 3/8" X 4'-0-1/8"	6
RAFTER BEAM (RA8)	12" X 6" X 3/8" X 42'-11-7/8"	5
RAFTER BEAM (RA9)	12" X 6" X 3/8" X 29'-9-7/8"	1
RAFTER BEAM (RA10)	12" X 6" X 3/8" X 47'-7"	1
PURLIN (P1)	6" X 4" X 1/8" X 5'-6"	7
PURLIN (P2)	8" X 6" X 3/16" X 22'-11"	7
PURLIN (P3)	8" X 6" X 3/16" X 22'-9"	1
PURLIN (P4)	6" X 4" X 3/16" X 17'-2"	45
PURLIN (P5)	6" X 4" X 3/16" X 17'-3"	1
PURLIN (P6)	6" X 4" X 1/8" X 4'-6"	8
ROUND PURLIN (RP1)	8-5/8"Ø X 1/4" X 17'-2"	3
ROUND PURLIN (RP2)	4"Ø X 5/16" X 17'-2"	3
ROUND PURLIN (RP3)	8-5/8"Ø X 1/4" X 1'-6"	9



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NO.	DATE	DESCRIPTION
0	03/29/22	FOR CONSTRUCTION

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CONSULTANT

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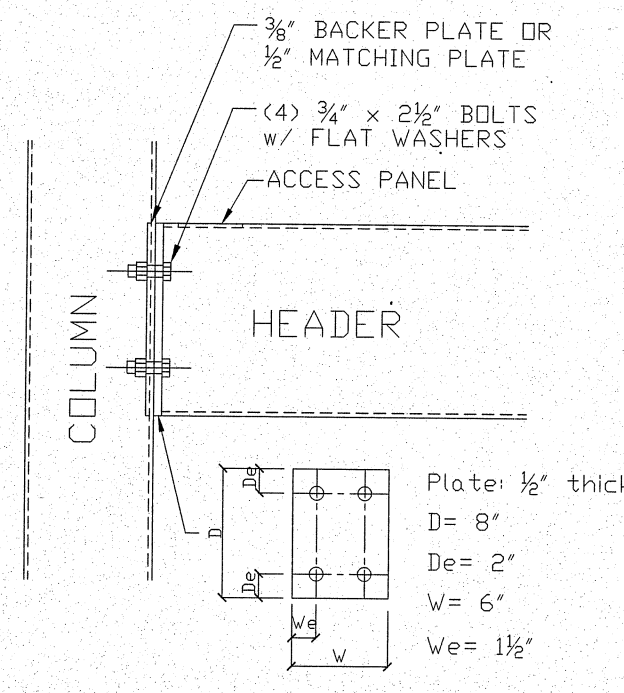
PROJECT NUMBER: 22-1017  
 FILENAME:  
 SCALE: AS NOTED  
 PLOT DATE:  
 DRAWN BY: MKC

DRAWINGS FOR: **Star Wash Express**  
 925 LOCKWOOD BLVD.  
 OVIEDO, FL 32765

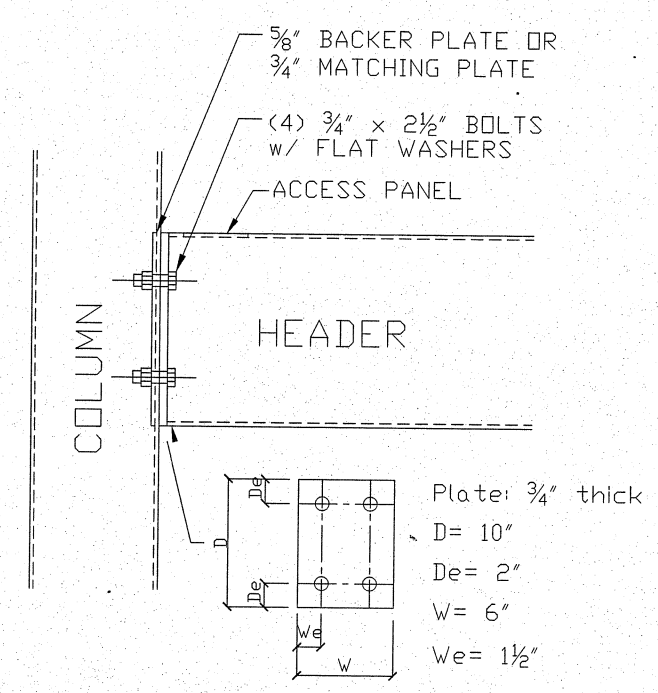
SHEET TITLE: **Framing Members**

SHEET: **S-3.6**

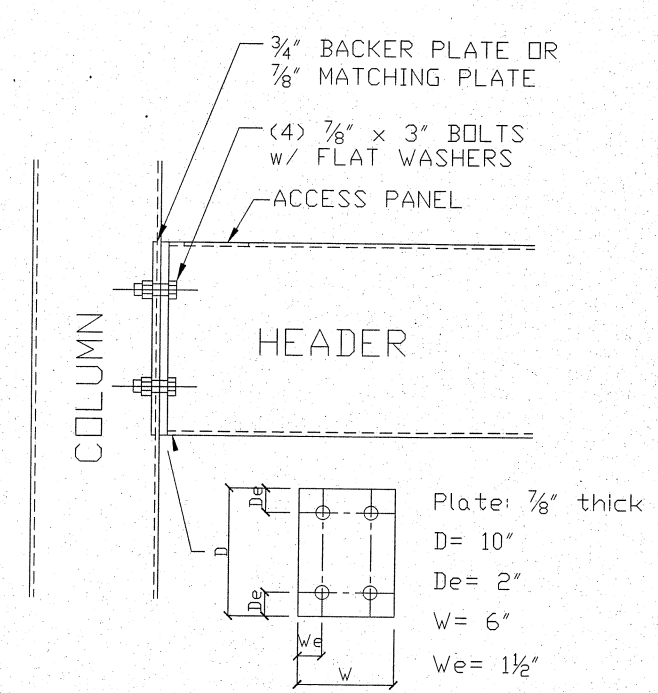
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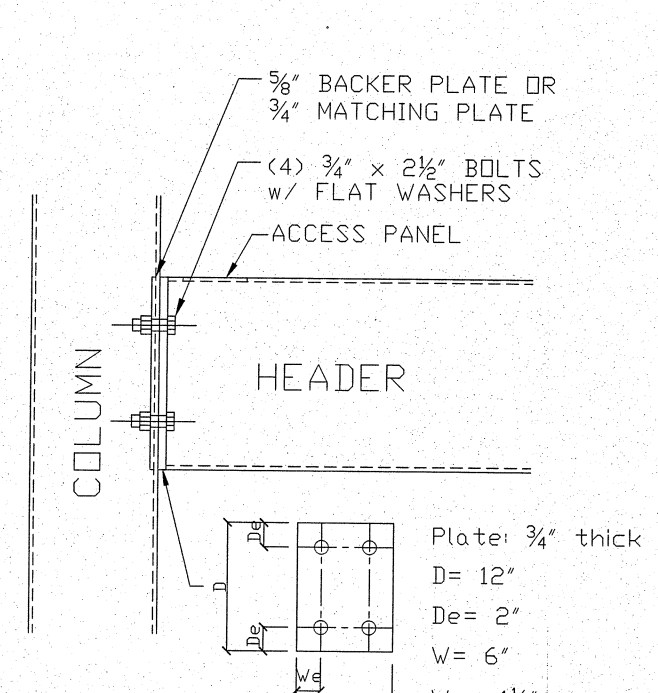
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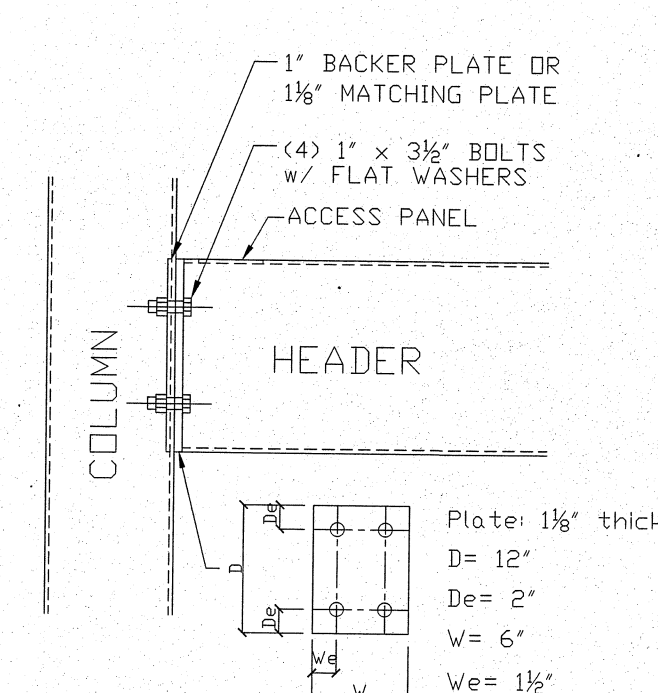
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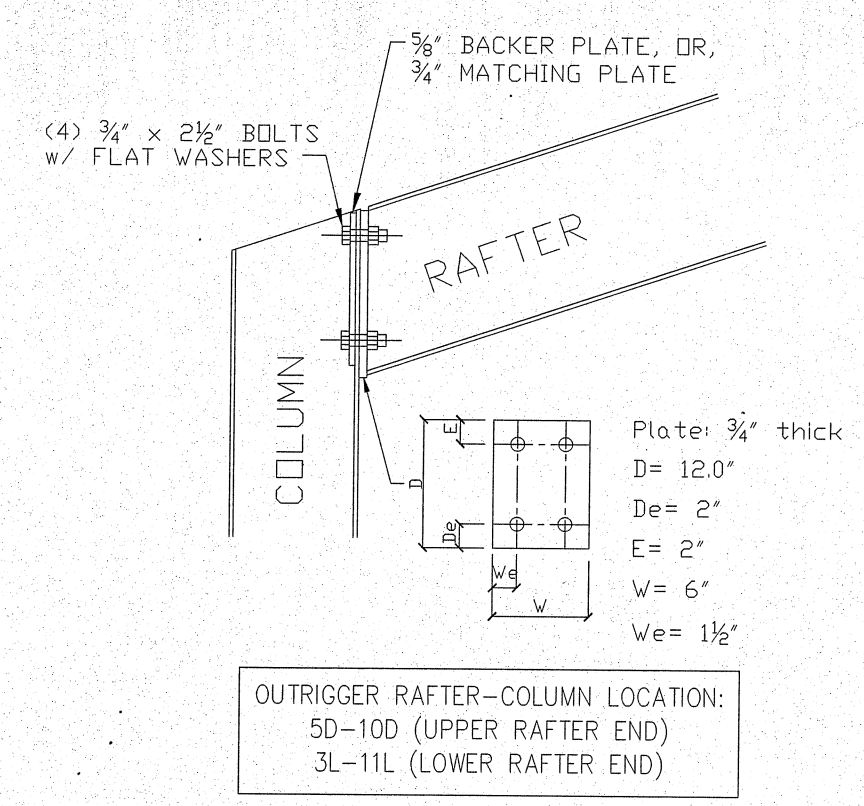
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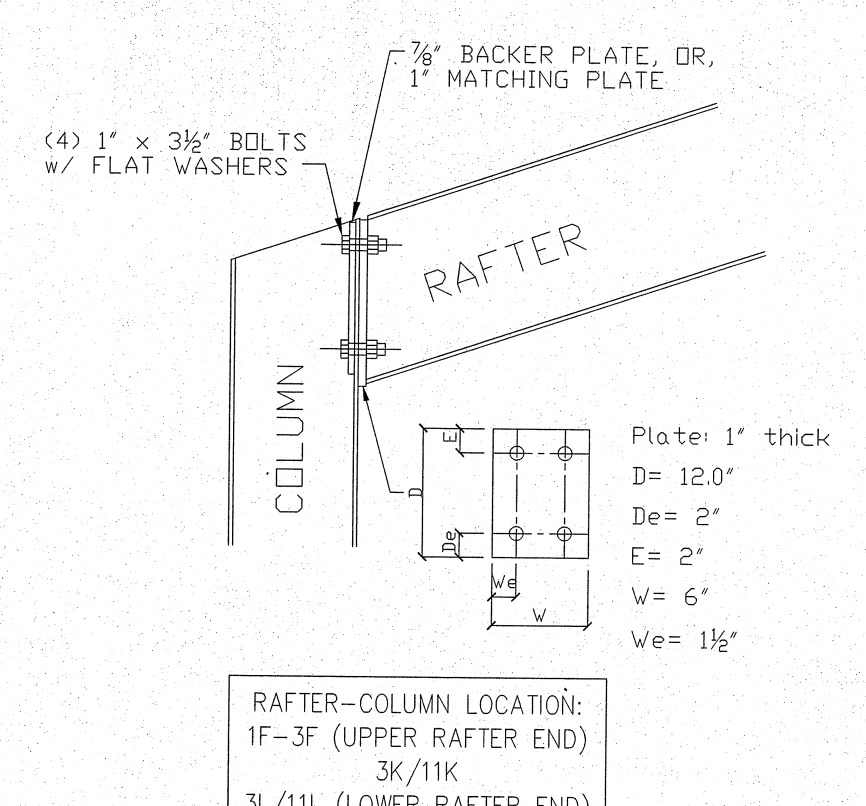
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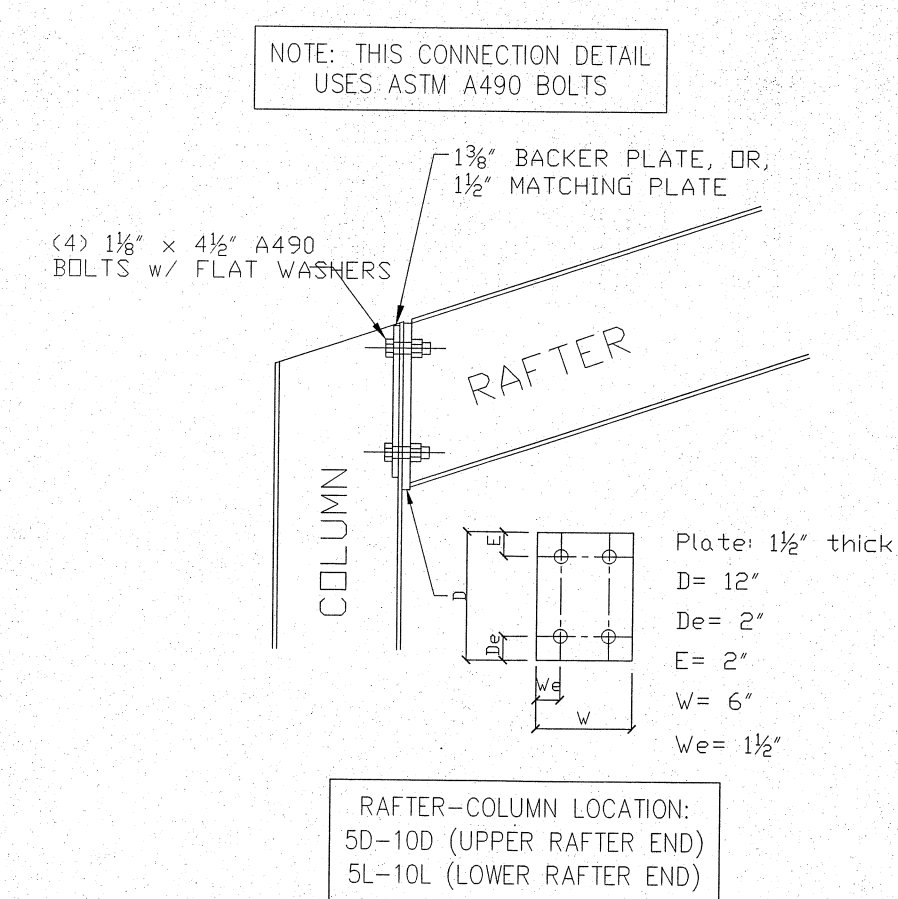
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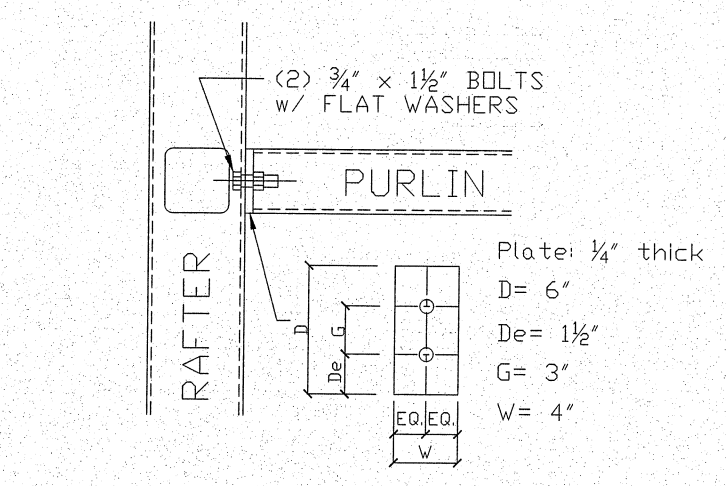
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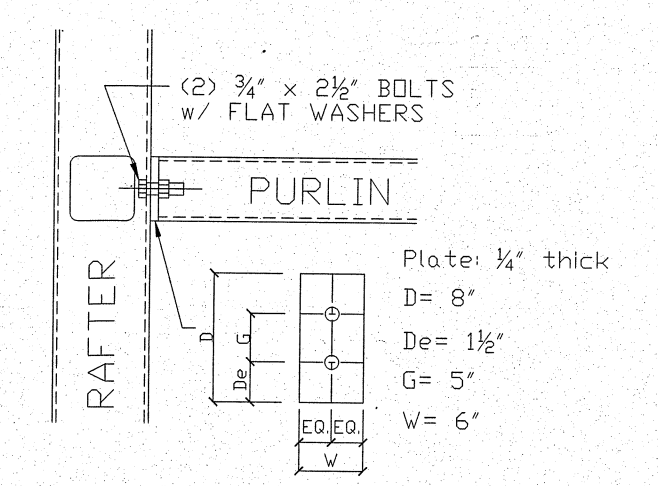
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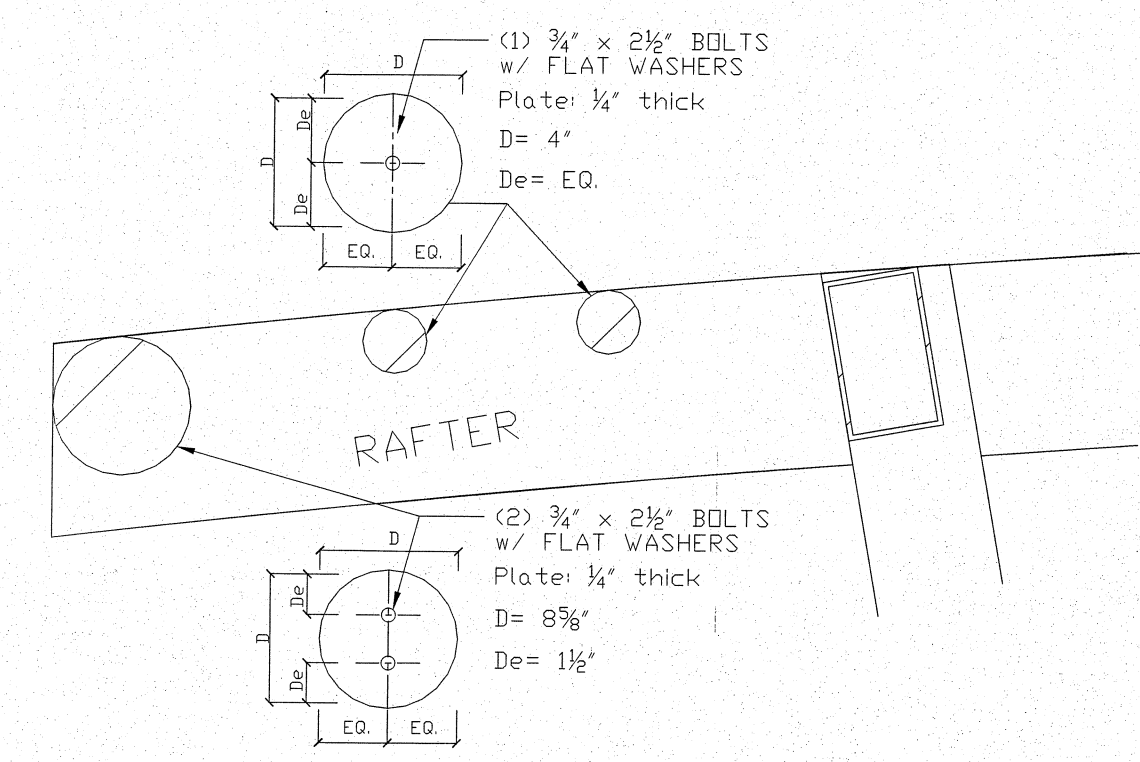
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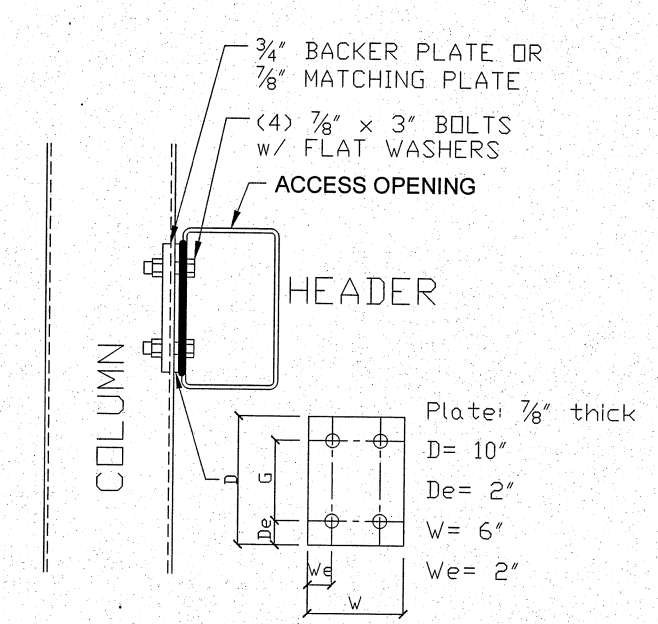
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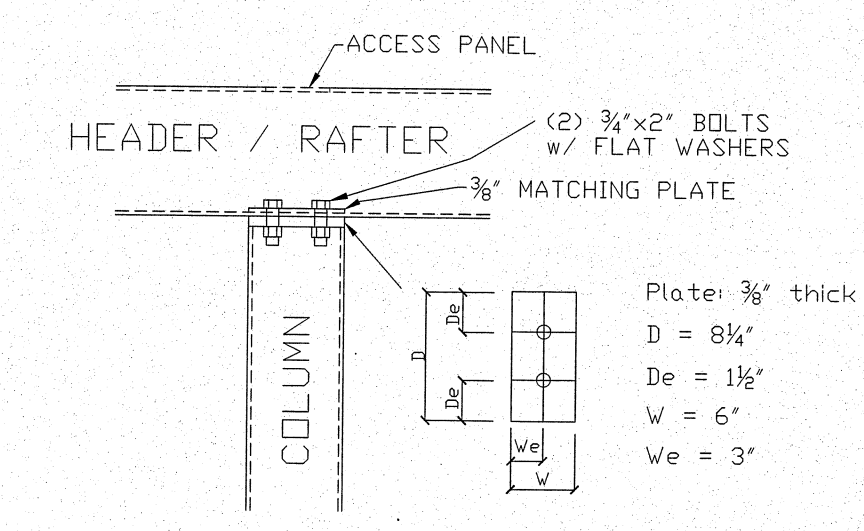
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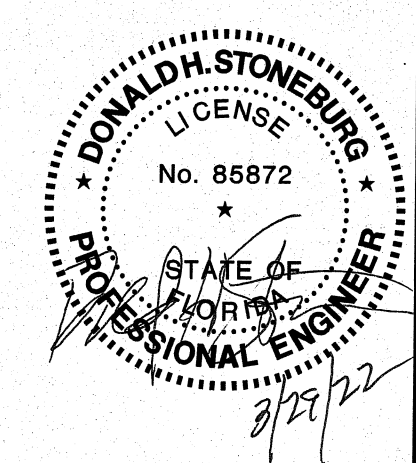
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**M CONNECTION DETAIL-S5A**  
S-3.7 SCALE: N.T.S.



**N CONNECTION DETAIL-S5B**  
S-3.7 SCALE: N.T.S.



NO	DRAWN BY	CHECKED BY	DATE	DESCRIPTION
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DRAWINGS FOR:  
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925 LOCKWOOD BLVD.  
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PROJECT NUMBER: 22-1017  
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DRAWN BY: MKG

SHEET:  
**S-3.7**