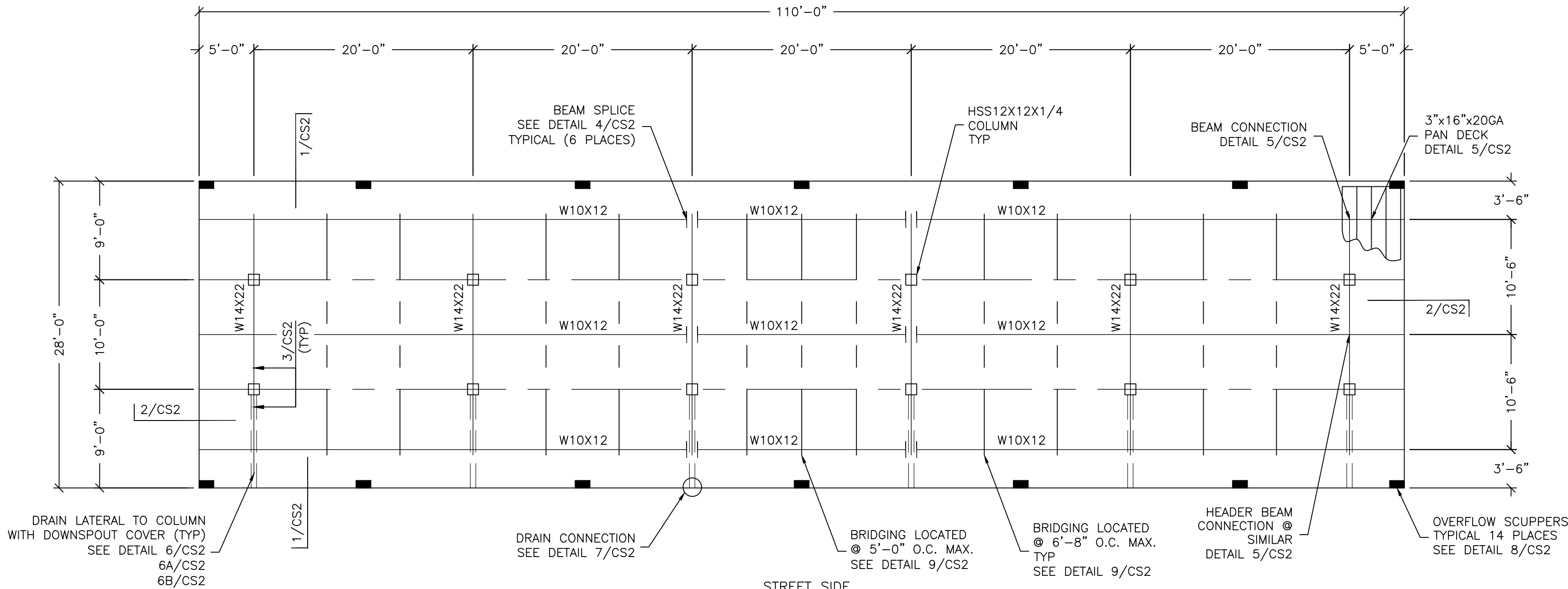
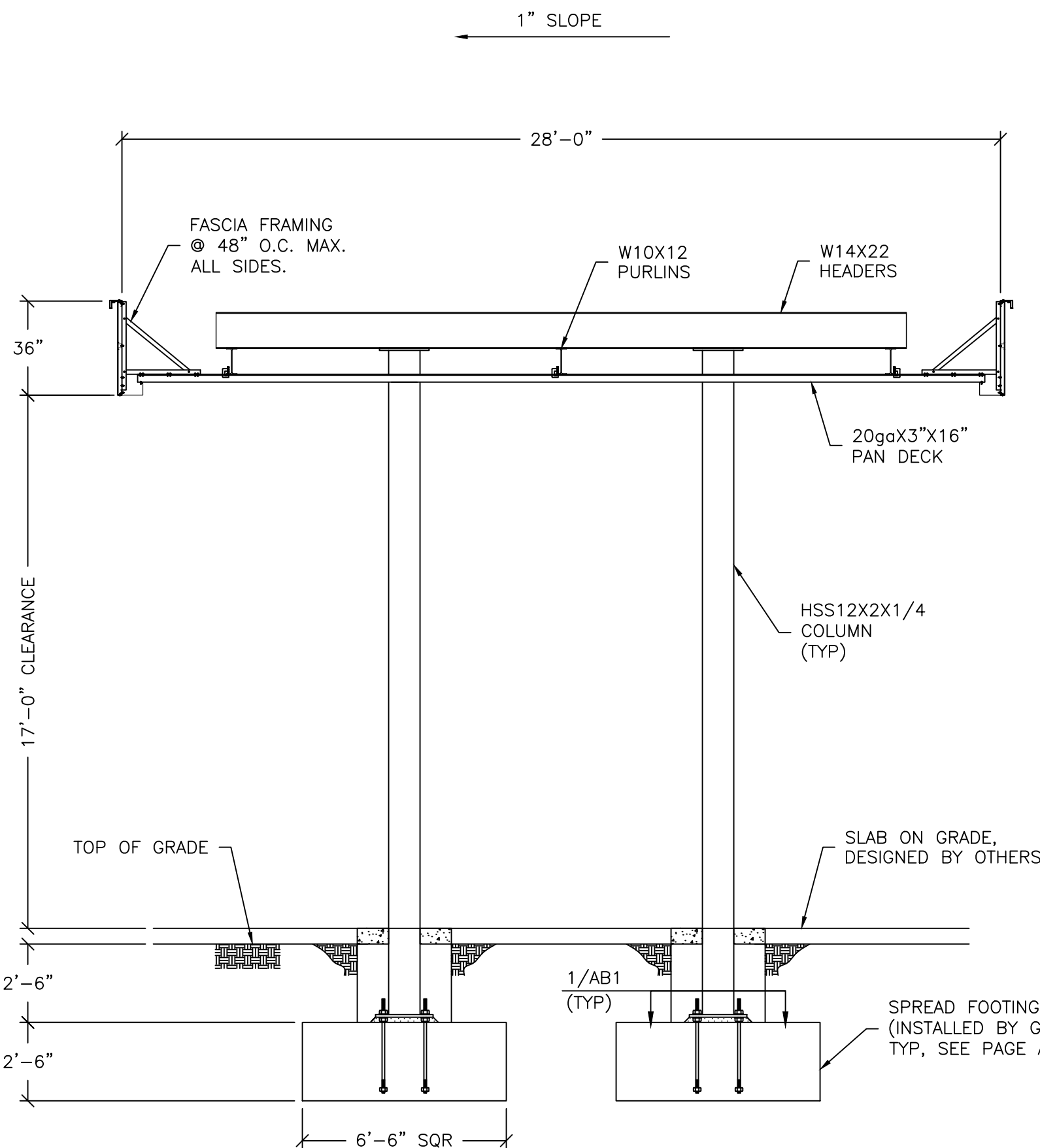


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FRAMING PLAN

SCALE: 1/8"=1'-0"



SECTION/ELEVATION

SCALE: 1/4"=1'-0"

SPECIAL INSPECTIONS FOR THE CANOPY

SPECIAL INSPECTIONS FOR THE CANOPY SHALL BE PROVIDED BY THE OWNER PER CHAPTER 17 OF THE IBC.

THE FOLLOWING SYSTEMS ARE SUBJECT TO THE SPECIAL INSPECTION REQUIREMENTS OF THE IBC CHAPTER 17.

- | | |
|---------------------------|-----------------|
| A. COLUMNS | D. PURLIN BEAMS |
| B. COLUMN BASE PLATE | E. BEAMS |
| C. FOOTINGS UNLESS EXEMPT | |

SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK.

- WELDING
 - 1. PRIOR TO WELDING (TABLE N5.4-1, 360-16)
 - 2. DURING WELDING (TABLE N5.4-2, 360-16)
 - 3. AFTER WELDING (TABLE N5.4-3, 360-16)

4. NONDESTRUCTIVE TESTING (SECTION N5, 360-16)
PER IBC 1705.2, SPECIAL INSPECTION IS NOT REQUIRED WHERE WELDING IS PERFORMED IN AN APPROVED SHOP. JIMCO SALES AND MANUFACTURING IS AN AISC APPROVED FABRICATOR (218031061-10IN1T).

- BOLTING - PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-16); NOT REQUIRED IF ONLY SNUG TIGHT JOINTS ARE SPECIFIED.

- FOUNDATIONS - PER IBC 1705.3; EXCEPTION 1 - SPECIAL INSPECTION IS NOT REQUIRED FOR ISOLATED SPREAD CONCRETE FOOTINGS FULLY SUPPORTED ON EARTH OR ROCK. *THIS EXCEPTION DOES NOT APPLY IN THE STATE OF NEVADA.*

-SPECIAL INSPECTIONS SHALL BE PERFORMED DURING INSTALLATION AND TESTING OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS AS REQUIRED BY TABLE 1705.8.

- ANCHOR BOLTS - PERIODIC SPECIAL INSPECTION OF ANCHORS CAST IN CONCRETE REQUIRED PER IBC TABLE 1705.3, ITEM 3

- STRUCTURAL OBSERVATIONS: NONE REQUIRED

SEISMIC FORCE RESISTING SYSTEM (SFRS)

A. REFER TO AISC 341-16 SECTION A4 AND ASCE 7-16.
B. DESIGNATION OF SFRS: S.2, STEEL ORDINARY CANTILEVER COLUMN SYSTEMS (ASCE 7-16 TABLE 12.2-1) SEE AISC 341-16 SECTION E5 (OCCS).

C. R = 1.25, CS = 0.10

D. ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE

E. MEMBERS AND CONNECTIONS THAT ARE PART OF THE SFRS:

- COLUMNS
- COLUMN BASE CONNECTION
- FOOTINGS

F. PROTECTED ZONES: N/A

G. SEE DETAILS AND NOTE FOR CONNECTION CONFIGURATIONS, MATERIALS SPECIFICATIONS AND SIZES

H. WELD FILLER MATERIALS FOR WELDS PART OF THE SFRS:

- YIELD STRENGTH - 58 KSI MIN
- TENSILE STRENGTH - 70 KSI MIN
- ELONGATION - 22% MIN
- CVN TOUGHNESS - 20 FT-LB MIN @ 0° F

SEE DETAILS AND NOTES FOR OTHER WELDING REQUIREMENTS

J. DEMAND CRITICAL WELDS - N/A

K. LOWEST ANTICIPATED SERVICE TEMPERATURE - 0° F

CANOPY NOTES

GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE.
- OBSERVATION VISITS TO THE SITE BY THE DESIGN ENGINEER SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
- DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN LIMITS OF DESIGN LOADS.
- TYPICAL DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN.

1. BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE

2. USE GROUP: M, CONSTRUCTION TYPE - IIB

3. DESIGN LOADS:

A. ROOF LIVE LOAD: 20 PSF (REDUCIBLE)

B. CANOPY DEAD LOAD: 10.33 PSF

C. GROUND SNOW LOAD Pg: 5.0 PSF

FLAT ROOF SNOW LOAD Pf: 4.2 PSF

RAIN ON SNOW SURCHARGE: 5.0 PSF IF Pg<20

EXPOSURE FACTOR Ce: 1.0

IMPORTANCE FACTOR Is: 1.0

THERMAL FACTOR Ct: 1.2

D. BASIC WIND SPEED V=109 MPH, Vsd=84 MPH

BUILDING RISK CATEGORY: II

EXPOSURE: C

E. EARTHQUAKE DESIGN: ASCE 7-16 CHAPTER 30

IMPORTANCE FACTOR: 1.0

Ss=0.055g Sds=0.130g

Site CLASS: D Sd1=0.092g

SEISMIC DESIGN CATEGORY: B

SEISMIC FORCE RESISTING SYSTEM: C.2 STEEL ORDINARY CANTILEVERED COLUMN SYSTEM

DESIGN BASE SHEAR: 3.31k

SEISMIC RESPONSE COEFFICIENT: Cs = 0.10

RESPONSE MODIFICATION FACTOR: R=1.25

SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

4. FOUNDATION DESIGN:

ALLOWABLE BEARING PRESSURE: 1500 PSF

LATERAL EARTH PRESSURE: 100 PSF SPREAD FOOTING

250 PSF PIER IBC-1810.3.3.1.4

SKIN FRICTION (PIERS ONLY) 130 PSF

THE VALUES LISTED IN SECTION 4 REFLECT PRESUMPTIVE LOAD-BEARING VALUES FROM THE BUILDING CODE (TABLE 1806.2). JIMCO SALES AND MANUFACTURING HAS MADE NO INVESTIGATION INTO THE BUILDING SITE SOIL CONDITIONS, WHERE THE BUILDING OFFICIAL HAS REASON TO DOUBT THE CLASSIFICATION, STRENGTH OR COMPRESSIBILITY OF THE SOIL, THE BUILDING OFFICIAL MAY REQUIRE A GEOTECHNICAL INVESTIGATION PER IBC 1803.5.2.

ALL FOOTING SHALL BE PLACE ON UNDISTURBED NATURAL SOIL OR ON PROPERLY COMPACTED STRUCTURAL FILL. CONTRACTOR SHALL VERIFY THAT THE SOIL UNDER FOOTINGS ARE SUITABLE TO SUPPORT FOOTINGS. MUD, ORGANIC SILT, ORGANIC CLAYS, PEAT OR UNPREPARED FILL MAY NOT BE USED AS LOAD-BEARING.

JIMCO SALES AND MANUFACTURING RECOMMENDS THAT THE OWNER/CONTRACTOR RETAIN A LICENSED GEOTECHNICAL ENGINEER TO PROVIDE SITE SPECIFIC DESIGN VALUES OR TO VERIFY THE DESIGN VALUES LISTED IN SECTION 4. THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS IN THE SOILS REPORT FOR SUBGRADE PREPARATION BELOW FOOTINGS.

5. CONCRETE AND REINFORCEMENT:

A. CONCRETE FOOTINGS (EXPOSURE CLASSES F0, S0, W0, C0) TYPE II

CEMENT COMPRESSIVE STRENGTH OF f'c = 3000 p.s.i.

B. SLAB ON GRADE (BY OTHERS)

C. CONCRETE DESIGNED USING f'c =2500 p.s.i. OR ABOVE SHALL HAVE

SPECIAL INSPECTIONS PERFORMED, UNLESS ISOLATED SPREAD FOOTINGS ARE UTILIZED. SEE SPECIAL INSPECTIONS FOR THE CANOPY CONCRETE NOTE.

D. REBAR: ASTM A615 GRADE 60

E. STIRRUPS AND TIES SHALL HAVE MINIMUM 4" HOOKS.

F. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT:

CONCRETE EXPOSED TO GROUND-----3"

FORMED CONCRETE EXPOSED TO GROUND-----2"

FORMED CONCRETE NOT EXPOSED TO GROUND-1 1/2"

G. GROUT UNDER COLUMN BASE PLATES SHALL BE NON-SHRINK GROUT

COMPLYING WITH ASTM C1107, f'c=5000p.s.i. AND INSTALLED PER

MANUFACTURERS RECOMMENDATIONS.

H. GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING TOP OF FOOTING

ELEVATIONS AS REQUIRED FOR UNDERGROUND PLUMBING AND ELECTRICAL

6. STRUCTURAL STEEL:

A. ALL STRUCTURAL STEEL SHALL COMPLY WITH AISC "SPECIFICATION FOR

FOR THE DESIGN OF STRUCTURAL STEEL FOR BUILDINGS" 15TH EDITION.

B. AISC "CODE OF STANDARD PRACTICE" EXCLUDING THE FOLLOWING

SECTIONS: 4.4, 4.4.1, 4.4.2, AND 7.15.

C. AISC "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STRUCTURAL

MEMBERS"

D. STRUCTURAL STEEL GRADES:

STEEL BEAMS ASTM A992 GRADE 50 Fy = 50,000 psi

HSS SQUARE & RECTANGLES ASTM500 GRADE C Fy = 50,000 psi

HSS ROUND COLUMNS: Fy = 46,000 psi

PIPE: ASTM A53 GRADE B Fy = 35,000 psi

BASE PLATES, CAP PLATES AND CAP PLATE STIFFENERS Fy = 50,000 psi

..... ASTM A572 GRADE 50 Fy = 50,000 psi

ANGLES ASTM A36 Fy = 36,000 psi

E. ALL BOLTED CONNECTIONS SHALL BE ASTM A307 BOLTS UNLESS OTHERWISE

SPECIFIED (NO SPECIAL INSPECTION REQUIRED).

F. ALL BOLTED CONNECTIONS SHALL BE "SNUG-TIGHT", UNLESS NOTED

OTHERWISE IN ACCORDANCE WITH RCSC.

G. METAL PAN DECK SHALL BE 20ga ASTM A653 GRADE 40.



Jimco
SALES AND
MANUFACTURING

3113 St. Louis Ave. Fort Worth, Texas (817)924-6173

DRAWING DESCRIPTION

CANOPY STRUCTURAL
NOTES AND PLANS

JOB LOCATION

TEX BEST TRAVEL CENTER #501
20290 IH-37
ELMENDORF, TX

ENGINEER SEAL



DOS TIENOLAS INC.

REVISIONS

CUSTOMER

NO. DESCRIPTION:

BY:

DATE:

M. KOVAL
DRAWN BY:

V. HERRERA, PE
CHECKED BY:

01-19-2024
DATE:

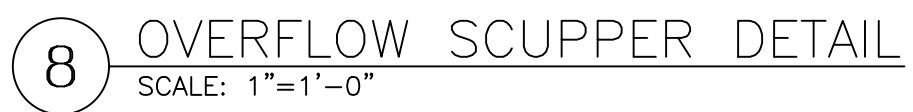
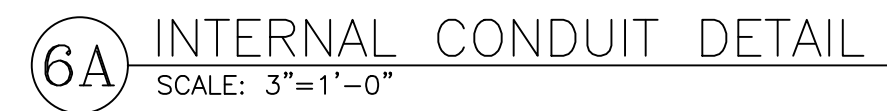
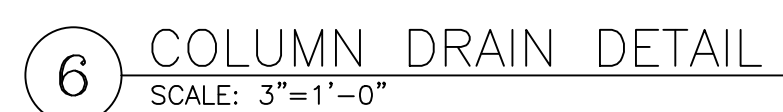
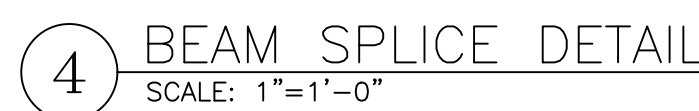
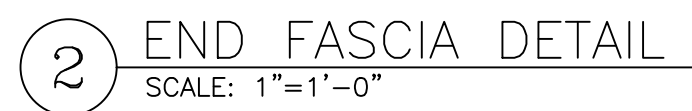
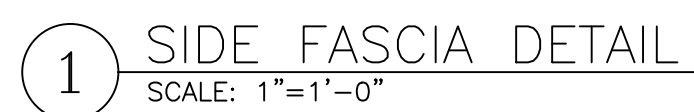
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23-3108R01

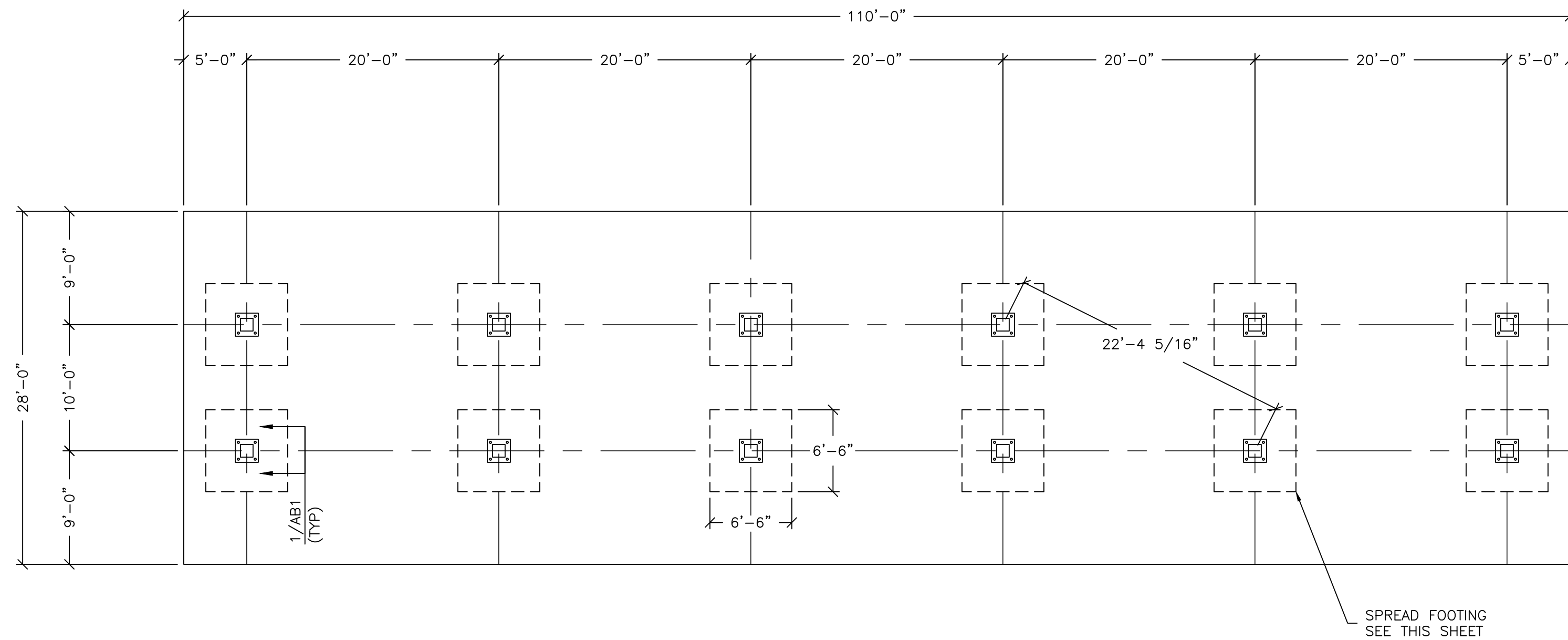
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CS1

OF 3 SHEETS

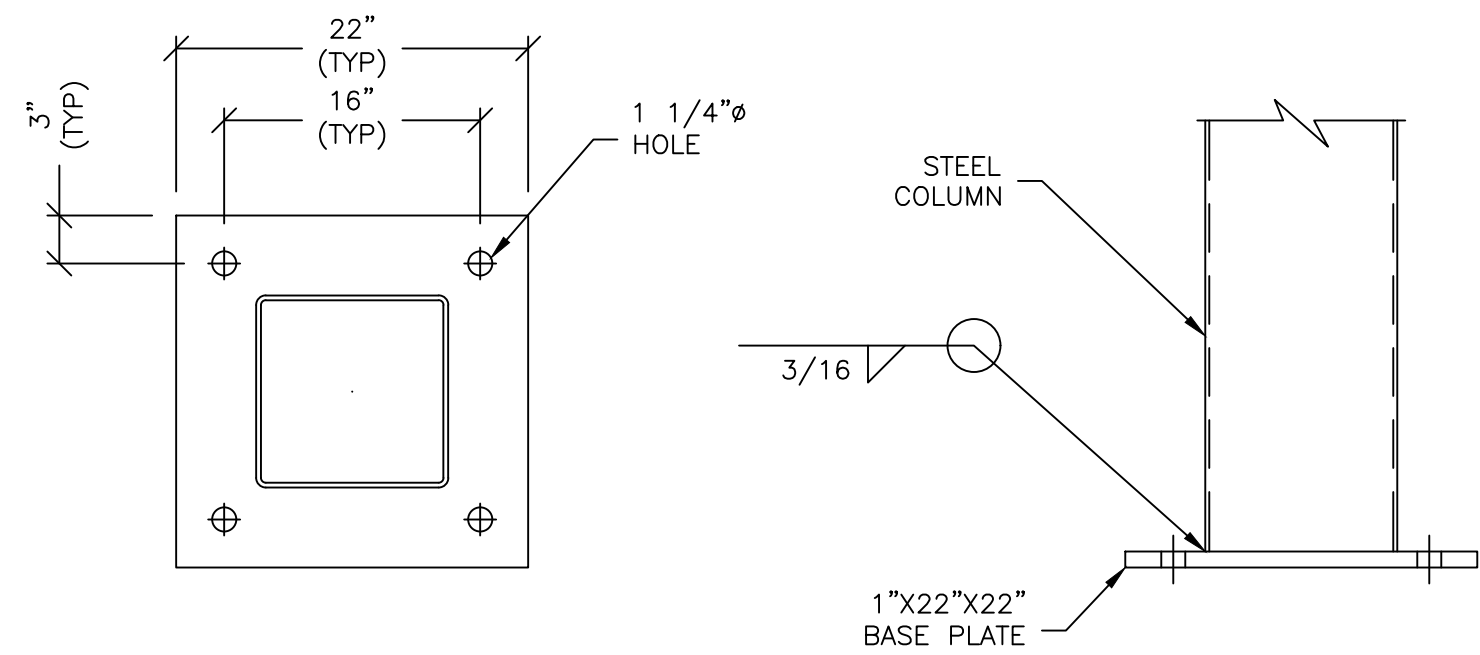


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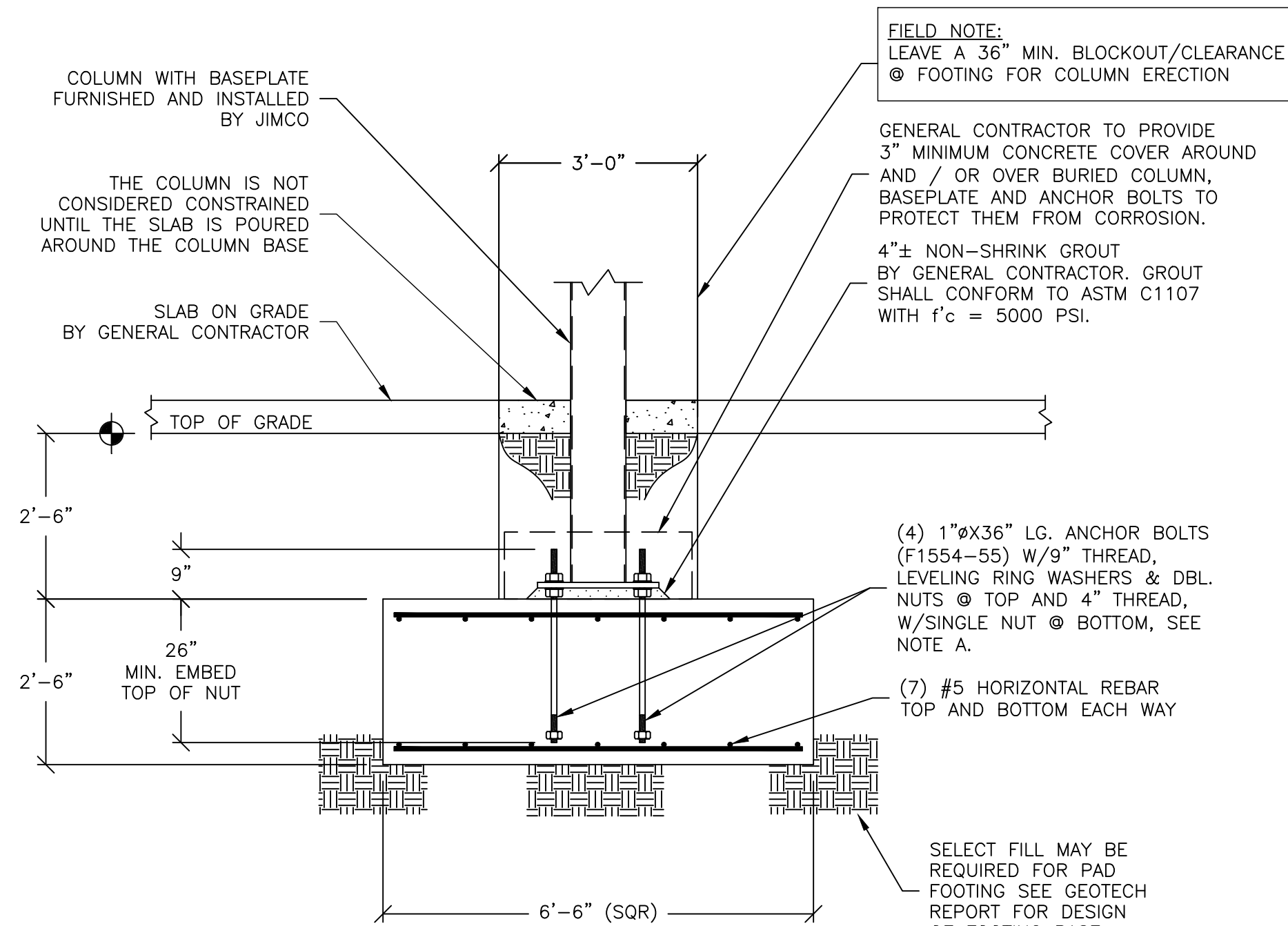


FOUNDATION PLAN
SCALE: 1/8"=1'-0"

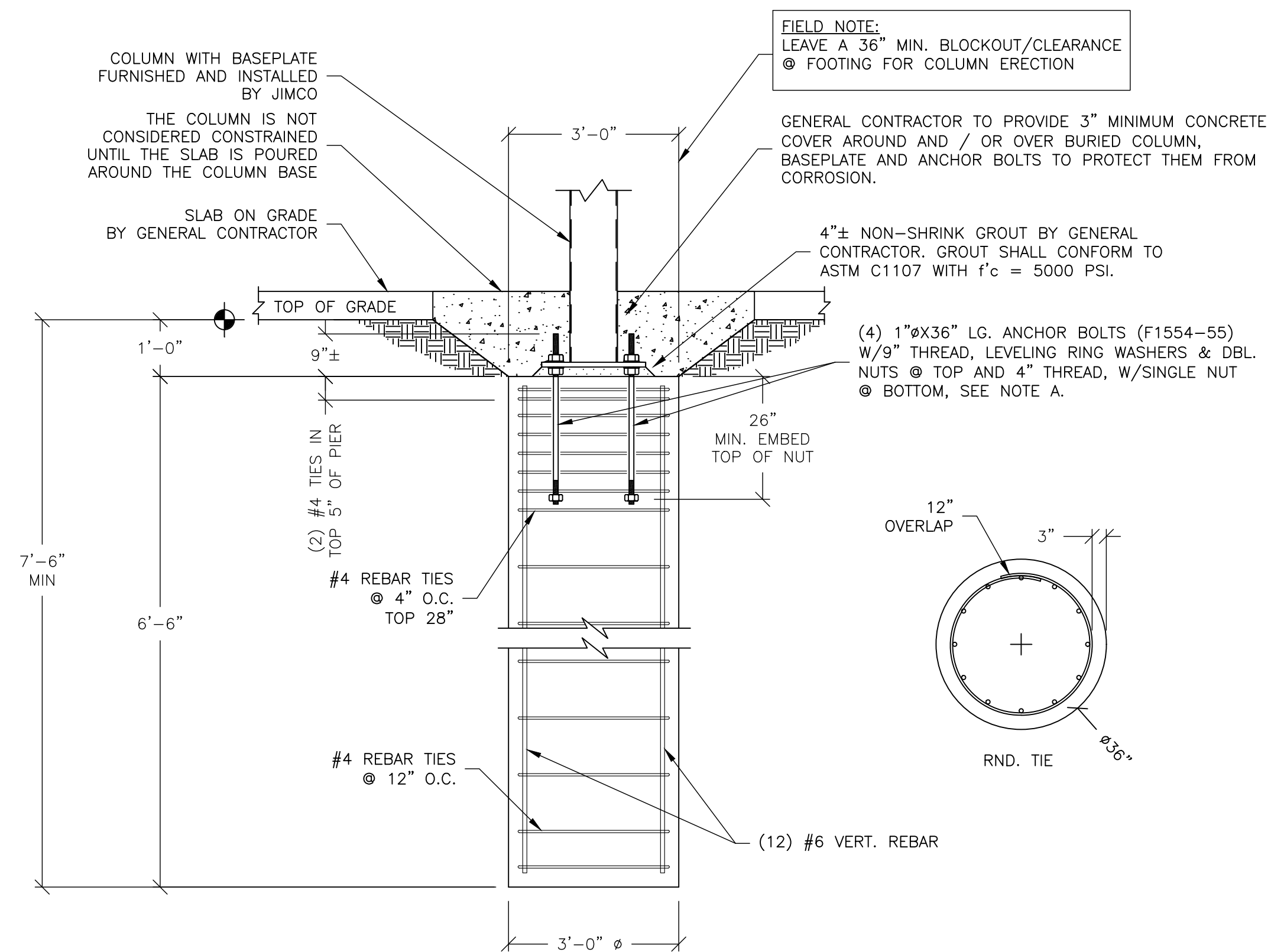
NOTE:
A) FOOTINGS INCLUDING CONCRETE, REBAR, FORMWORK AND ASSOCIATED EARTHWORK SHALL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR EXCEPT ANCHOR BOLTS SHALL BE FURNISHED BY JIMCO AND INSTALLED BY GENERAL CONTRACTOR.
B) SEE FOUNDATION, CONCRETE NOTES ON DWG CS1.



1 BASE PLATE DETAIL
SCALE: 1"=1'-0"



SPREAD FOOTING DETAIL
SCALE: 1/2"=1'-0"



OPTIONAL PIER DETAIL
SCALE: 1/2"=1'-0"

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AB1

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