

ITB B24-PW-103006-500431 Lake Havasu Police Department Rehabilitation Project ADDENDUM NO. FOUR December 7, 2023

Attention is called to the following changes, additions, clarifications and/or deletions to the original solicitation and they shall be taken into account in preparing submissions:

There is no change in the opening date. **Submissions are due no later than 3:00 p.m., Arizona Time, December 13, 2023** at the City Clerk's Office, 2330 McCulloch Blvd. N., Lake Havasu City, AZ 86403.

ITEM	ACTION	DESCRIPTION or ISSUE
1	Clarification	Question & Answers arising from Second Pre-Bid Meeting & Job Walk
2	Clarifications	Additional Plan Sets Attached

DATE: 12/7/2023

BY: Susie Fox

Contract Specialist – ASD/Procurement

1. Will security clearances/background checks be required?

Previously answered in Addendum 2

2. Will there be portable restrooms/trailer restrooms, who is to provide?

Portable restrooms will be required for Construction employees, contractor to provide.

3. Are there ceiling plans/specs referencing T-Bar vs Hard lid

See plan sheet in Addendum 4 - A301 & A302

4. Do the lockers in the locker rooms get painted (near the gym)

No

5. There is a condensate line in room C121 (Janitor closet), the condensate drains to the mop sink. The mop sink is to be removed. Were do we relocate the condensate drain to?

Replace Mop sink, plumbing fixture, and p-trap, Do not remove mop sink.

(SAI - Floor Sink in room C121 to remain. Once the mechanical scope is complete in the second phase, we will address the routing of condensation lines and consider if removal of the floor sink is necessary.)

6. Can we use a combination of epoxy & lining in pipes or does it have to be just epoxy?

Yes, the general contractor and his subcontractor may elect to use alternative lining methods provided the warranty requirements of the specification book are met. If a combination of methods is used, an as built plan should be provided locating which lines have the liner.

7. Thickness of slab in the jail area?

See sheet S2.3 of existing structural Drawings attached.

8. Sound restrictions when it comes to demolition work

The project owner understands that some construction activity may exceed the max allowable level. This should be coordinated with Project Manager when in sensitive areas.

9. What will be the hours of operation?

Previously answered in Addendum 2

10. Color match for the structural repairs?

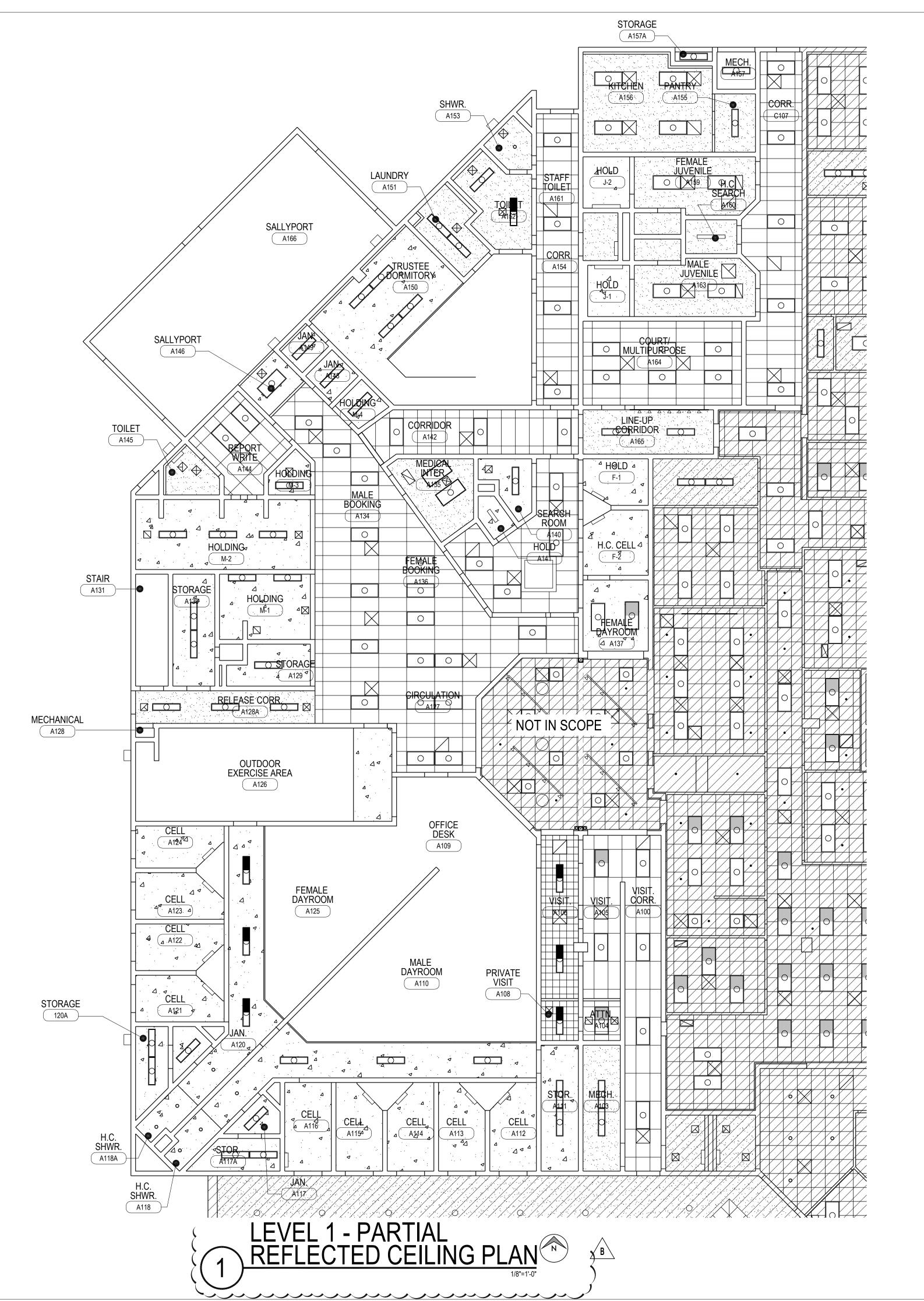
Structural repairs to CMU and foundation, shall be color matched. Color submittals to be approved by project owner.

11. Are we keeping the stainless steel countertop at cabinetry across the M-1/M-3 holding cells?

The stainless countertop shall be removed and saved for reinstallation.

12. Who will be the installer for the cell doors mechanism?

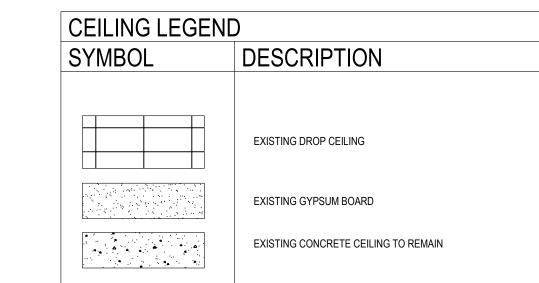
Consult cell mechanism manufacturer at airteq.com

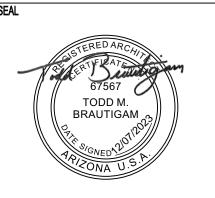


Drawing: S:\2023\02 Projects\23005 - LHC Police Department Building\06 (CD) Contract Documents\01 Sheets\Main Building\23005 - A3.01 - Reflected Ceiling Plan

GENERAL NOTE

- EXISTING CEILING GRID SYSTEM, LIGHTING, DIFFUSERS, RETURNS AND EXHAUST FANS TO
- JAIL AREA GYPSUM AND CONCRETE CEILING TO BE PAINTED, INTERIOR PAINT TO BE MANUFACTURED BY SHERWIN WILLIAMS OR APPROVED EQUAL BY OWNER. COLOR TO BE EXTRA WHITE SW7006.





DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL. COPIES OF THE DRAWINGS AND SPECIFICATIONS RETAINED BY THE CLIENT MAY BE UTILIZED ONLY FOR HIS USE AND FOR OCCUPYING THE PROJECT FOR WHICH THEY WERE PREPARED, AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECTS.

DEPARTMENT REHABILITATION BLVD. N, LAKE HAVASU CITY, AZ 86403 LHC POLICE I 2360 McCULLOCH B APN: 108-27-041A

ARCHITECT OF RECORD SELBERG ASSOCIATES ARCHITECTURE & PLANNING 2130 MESQUITE AVE. | SUITE 204 LAKE HAVASU CITY | ARIZONA | 86403 (928) 855-6544

PROJECT NO. **SEPTEMBER 29, 2023**

ISSUE DATE REVISION BID ADDENDUM NO. 2

BID ADDENDUM NO. 4 12/07/2023

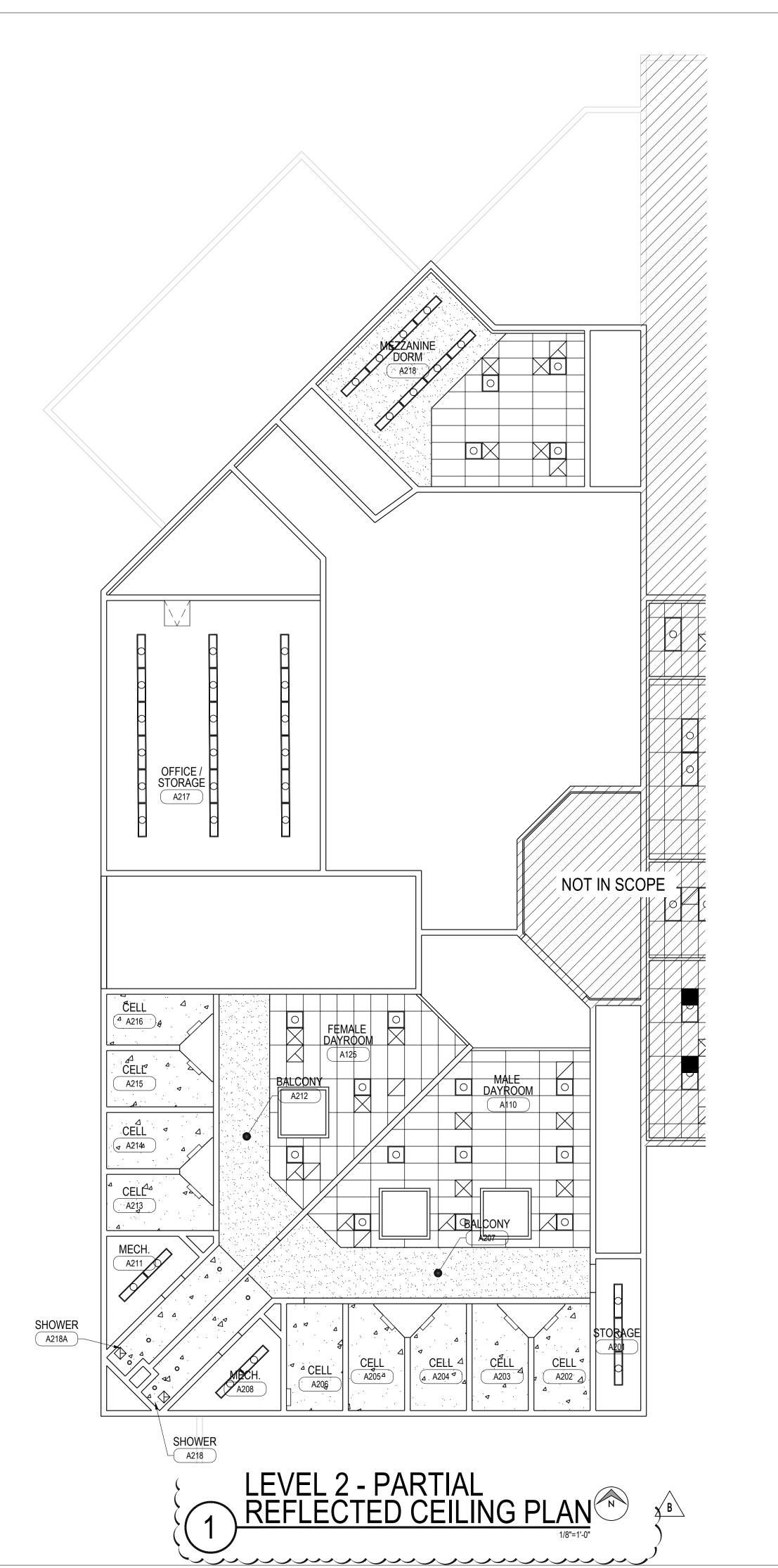
SHEET TITLE:

PARTIAL REFLECTED **CEILING PLAN** LEVEL 1

SHEET NO.

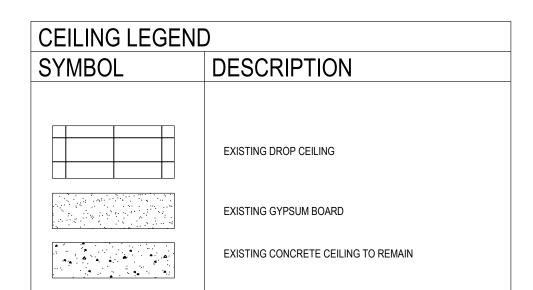
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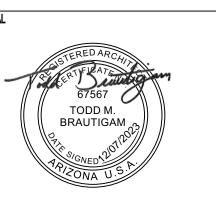
Last Saved By: Brisa



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LHC POLICE DEPARTMENT REHABILITATION
2360 McCULLOCH BLVD. N, LAKE HAVASU CITY, AZ 86403
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ARCHITECT OF RECORD

SELBERG
ASSOCIATES
INC.
ARCHITECTURE &
PLANNING

2130 MESQUITE AVE. | SUITE 204
LAKE HAVASU CITY | ARIZONA | 86403
(928) 855-6544

PROJECT NO.

23005

ISSUED FOR:
PERMIT SET

ISSUED DATE:
SEPTEMBER 29, 2023

REVISION
ISSUE DATE

BID ADDENDUM
NO. 2

11/03/2023

BID ADDENDUM
NO. 4

12/07/2023

SHEET TITLE:

PARTIAL REFLECTED
CEILING PLAN

SHEET NO.

A3.02

Last Saved By: Brisa

SEISMIC: ZONE 2B, V = .115 x W, ESSENTIAL FACILITIES, I = 1.25

BASIC WIND SPEED 80 M.P.H., EXPOSURE C, I = 1.15.
STEEL JOIST: NET WIND UPLIFT = 12 P.S.F.

MECHANICAL LOADS: SEE PLANS.

SUPERIMPOSED DEAD LOADS LIVE LOADS: PER CODE. FOR EXCEPTIONS AND CLARIFICATION, SEE PLANS.

SHOP DRAWINGS:

THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH COMPLIANCE OF THE FOLLOWING PRE-SHOP DRAWING MEETING(S)

- A. CONTRACTOR SHALL SCHEDULE AND CARRY OUT PRE-SHOP DRAWING MEETINGS WITH THE PROJECT STRUCTURAL ENGINEER.
- B. ALL SUCH MEETINGS SHALL BE HELD AT AEG PHOENIX OFFICES
- C. EACH TRADE DETAILER REQUIRED TO SUBMIT SHOP DRAWINGS FOR STRUCTURAL REVIEW SHALL PARTICIPATE.
- 2. THE STRUCTURAL SHOP DRAWING REVIEW IS INTENDED TO HELP THE ENGINEER VERIFY HIS DESIGN CONCEPT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK HIS OWN SHOP DRAWINGS.
- 3. THE STRUCTURAL SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF A CURSORY REVIEW SHOWS MAJOR ERRORS WHICH SHOULD HAVE BEEN FOUND BY THE CONTRACTOR'S CHECKING
- 4. CONCRETE MIX DESIGNS: SUBMITTALS SHALL BE PREPARED OR CERTIFIED TO CONFORM TO ACI CODE BY AN INDEPENDENT TESTING LABORATORY PRIOR TO SUBMITTING TO ARCHITECT. EACH SEPARATE MIX DESIGN SHALL BE INCLUDED WITH A COVER LETTER INDICATING ALL LOCATIONS ON THE PROJECT WHERE THE MIX WILL BE USED.
- 5. FOLLOWING SHOP DRAWINGS ARE NOT REQUIRED FOR SUBMITTAL FOR STRUCTURAL REVIEW.
- I. SHORING AND BRACING. 2. WINDOW MULLIONS AND ARCHITECTURAL ITEMS NORMALLY ENGINEERED BY THE CONTRACTOR
- 3. UNSPLICED REBAR OF SLAB ON GRADE AND SPREAD FOOTINGS. 4. STRUCTURAL STEEL MILL REPORTS
- 5. MESH OR REBAR FOR CONCRETE OVER COMPOSITE STEEL DECK.
- 6. FOLLOWING SHOP DRAWINGS AND CALCULATIONS WHEN APPLICABLE, ARE REQUIRED FOR SUBMITTAL FOR STRUCTURAL REVIEW. ALLOW THREE DAYS FOR PROCESSING AND ADDITIONAL DAY PER EACH FOUR 24 X 36 SHOP DRAWING SHEETS TO DETERMINE TURN AROUND TIME IN THE STRUCTURAL OFFICE:
- STRUCTURAL STEEL AND DECK. MISCELLANEOUS STRUCTURAL STEEL.
- 3. CONCRETE & REINFORCING.
- 4. STEEL JOISTS.
- 5. MASONRY & REINFORCING.
- 7. ANY RESUBMITTAL OF A DETAIL SHEET WITH ADDED INFORMATION SHALL BE ACCOMPANIED BY LOCATION PLAN IDENTIFYING THE MEMBERS INVOLVED, AND CLOUDING AROUND ADDED INFORMATION.
- DIMENSION CHECKING AND CHECKING OF DESIGN CHANGES PROPOSED BY CONTRACTOR WITHOUT PRIOR CONSULTATION WITH THE ENGINEER SHALL BE CHECKED ONLY IF THE CONTRACTOR WISHES THEM TO BE CHECKED AT HIS
- 9. ANY ENGINEERING SUBMITTED FOR REVIEW SHALL BE APPROPRIATELY SEALED. FULL RESPONSIBILITY OF SUCH ENGINEERING RESTS WITH THE PERSON SEALING THE DESIGN.

SPECIAL INSPECTION:

SPECIAL INSPECTION BY SPECIAL INSPECTORS SATISFACTORY TO THE BUILDING OFFICIAL IS REQUIRED FOR THE FOLLOWING TYPES OF WORK IN CONFORMANCE WITH SECTION 306 OF THE 1988 UNIFORM BUILDING CODE:

- I. CONCRETE: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE EXCEPT SLABS ON GRADE.
- 2. BOLTS INSTALLED IN CONCRETE: DURING INSTALLATION OF EMBEDDED BOLTS IN CONCRETE AND DURING INSTALLATION OF EXPANSION BOLTS AND EPOXY BOLTS/REBAR INTO EXISTING CONCRETE
- REINFORGING STEEL: A. DURING PLACING OF REINFORCING STEEL, FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION BY ITEM I. ABOVE AND PLACING REINFORCING STEEL IN EPOXIED HOLES PER ITEM 2 ABOVE.
- WELDING: A. DURING ALL STRUCTURAL WELDING, INCLUDING WELDING OF REINFORCING STEEL
- NOT REQUIRED FOR:
- WELDING DONE IN AN APPROVED FABRICATOR'S SHOP. 2. DECK WELDING AND HEADED STUDS - PERIODIC INSPECTION ONLY.
- HIGH-STRENGTH BOLTING: DURING ALL BOLT INSTALLATIONS AND TIGHTENING OPERATIONS EXCEPT AT "SNUG TIGHT" BEARING BOLTS WHERE INSPECTION TAKES PLACE AFTER INSTALLATION.
- STRUCTURAL MASONRY: DURING PREPARATION OF MASONRY WALL PRISMS, SAMPLING AND PLACING OF ALL MASONRY UNITS, PLACEMENT OF REINFORCING, INSPECTION OF GROUT SPACE IMMEDIATELY PRIOR TO CLOSING OF CLEANOUTS, AND DURING ALL GROUTING OPERATIONS.

NOT REQUIRED FOR: 1. F'M < 1500 P.S.I. FOR CONCRETE MASONRY UNITS THEN ONLY NEEDS PERIODIC OBSERVATION. 7. SPRAY - APPLIED FIREPROOFING: PER UBC STANDARD 43-8 FOUNDATIONS:

SOIL REPORT BY: LAW ENGINEERING, REPORT NO. PI-2502, DATED JULY 9, 1991. FOLLOW-UP LETTER, DATED AUGUST 8, 1991, AND JAN. 20, 1992. SPREAD FOOTINGS SHALL BEAR ON MINIMUM OF 2'-0" OF COMPACTED EARTH, AT DEPTHS SHOWN ON DRAWINGS. FOR EXTENT AND NATURE OF COMPACTED EARTH, SEE SOIL REPORT, STRUCTURAL DETAILS AND SPECIFICATIONS. ALLOWABLE SOIL BEARING = 3,000 P.S.F.

CONCRETE

SHALL MEET ALL THE REQUIREMENTS OF ACI 301-90 WITH TYPE II CEMENT. MINIMUM 28 DAY STRENGTH 3,000 P.S.I., EXCEPT AS FOLLOWS:

ABOVE GRADE SLABS AND BEAMS......4,000 P.S.I

SIDEWALKS, CURBS, AND GUTTERS......2,500 P.S.I. NO ADMIXTURES WITHOUT APPROVAL. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. CONCRETE SHALL NOT BE IN CONTACT WITH ALUMINUM.

FLY ASH SHALL NOT BE USED.

GENERAL STRUCTURAL NOTES

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND EMBEDDED ITEMS. SLUMP 4 INCHES FOR SLABS NOT ON GRADE AND 5 INCHES FOR OTHER CONCRETE, DO NOT TAMP SLABS. USE ROLLER BUG, VIBRATING SCREED OR BULL FLOAT TO FINISH. DO NOT ADD WATER TO CONCRETE

ALL REINFORCING, INCLUDING DOWELS AND ANCHOR BOLTS, SHALL BE SECURELY TIED IN LOCATION BEFORE PLACING CONCRETE OR GROUT. DOWELS WILL NOT BE ALLOWED TO

CURE UNCOVERED SLABS ON GRADE WITH POLYETHYLENE FOR 5 DAYS. TAPE JOINTS WITH 6 INCH LAPS AND COVER WITH SAND. CURING COMPOUND FOR OTHER WORK SHALL BE COMPATIBLE WITH APPLIED FINISH, CONFORM TO ASTM C-309 AND SHALL BE CLEAR ON UNCOVERED STRUCTURE AND WHITE PIGMENTED ON COVERED STRUCTURE. APPLY AT A RATE SUFFICIENT TO RETAIN MOISTURE, BUT NOT LESS THAN I GALLON PER 200 SQUARE FEET.

CAST SLABS ON GRADE IN ALTERNATE SECTIONS, UNLESS PERMANENT FORMS ARE USED. WAIT 48 HOURS BETWEEN ALL ADJACENT CONCRETE CASTINGS. DO NOT PLACE CONCRETE IN LENGTHS EXCEEDING 96 FEET.

THE CONTRACTOR SHALL FIX ALL CRACKS AND DISPLACEMENTS LARGER THAN 1/16" UP TO THE PROJECT COMPLETION.

MINIMUM STRENGTH FOR REMOVAL OF BOTTOM FORMS AND SHORING SHALL BE 75% OF SPECIFIED STRENGTH AT 28 DAYS. WHEN SPAN L EXCEEDS 10'- O", CAMBER UP ALL CONCRETE SLABS L/400 AT MIDSPAN.

CAMBER UP ALL OVERHANGS L300 AT EDGE OF CANTILEVER. RECORD CAMBERS AT UNDERSIDES OF STRUCTURE IMMEDIATELY BEFORE AND AFTER RESHORING AND IMMEDIATELY AFTER DESHORING. ANTICIPATED DEFLECTIONS OF STEEL FLOOR BEAMS AND GIRDERS UNDER WEIGHT OF WET

CONCRETE ARE L/400. SET SCREEDS TO COMPENSATE FOR THE DEFLECTIONS AND ANY CONSTRUCTION DEVIATIONS WITHIN SPECIFIED TOLERANCES, SO THAT THE FINISHED FLOOR IS LEVEL. ALLOW 1/2 INCH ADDITIONAL CONCRETE IN THE BID FOR LEVELLING.

REINFORCING:

ASTM A-615 GRADE 60 EXCEPT AS FOLLOWS:

- #7 AND LARGER BARS TO BE WELDED A-106
- WIRE MESH, FLAT SHEETS A-185
- MELDED ANCHORS .. GRADE 40, CHEMICAL ANALYSIS LIMITED PER AMS SPEC FOR WELD WITHOUT PREHEAT. ALSO SEE "WELDING" BELOW.

ALL REINFORGING BARS DEFORMED EXCEPT #2 BARS AND WIRE MESH. LATEST ACI CODE AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES TO ANY REINFORCING INCLUDING TIES ARE AS FOLLOWS:

- CONCRETE PLACED AGAINST ROUGH EARTH 3"
- * SLABS AND JOISTS NOT EXPOSED TO WEATHER |"
- * ALL OTHER... I-I/2"

*2" COVERAGE FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER IS REQUIRED FOR

LAP SPLICES IN MASONRY: SHALL BE 48 DIAMETERS

MESH SPLICES: WIRE SPACING PLUS 2 INCHES

LAP SPLICES IN CONCRETE: SEE TYPICAL DETAIL 5/53.6. WHERE BARS ARE SHOWN SPLICED, THEY MAY RUN CONTINUOUS AT CONTRACTOR'S

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL, PROVIDE REQUIRED SHOP DRAWINGS

AND FABRICATE AFTER THE ARCHITECT'S REVIEW. SEE SHOP DRAWING SECTION ABOVE. PLACE REBAR PER CRSI MANUAL. REBAR SPACINGS GIVEN ARE MAXIMUM ON CENTER WHETHER STATED AS "O.C." OR NOT,

AND ALL REBAR IS CONTINUOUS WHETHER STATED AS "CONT." OR NOT. PROVIDE BENT CORNER REBAR TO MATCH AND LAP WITH HORIZONTAL REBARS AT CORNERS AND INTERSECTION OF WALLS, BEAMS, BOND BEAMS AND FOOTINGS PER ACI MANUAL. DOWEL ALL VERTICAL REBAR TO FOUNDATIONS. SECURELY TIE ALL REBAR, INCLUDING DOWELS, IN LOCATION BEFORE PLACING CONCRETE OR GROUT.

WHERE REINFORCING IS SHOWN CONTINUOUS THRU CONSTRUCTION JOINTS, LENTON FORM SAVERS DOWEL BAR SPLICE DEVICES AS MANUFACTURED BY ERICO PRODUCTS, INC. (OR EQUIVALENT) MAY BE USED. SIZES AND TYPES SHALL BE SELECTED TO DEVELOP THE FULL TENSION STRENGTH OF THE BAR PER ICBO RESEARCH REPORT.

"FIBERMESH" OR "GRACE FIBERS" OR "FORTA CR" OR EQUIVALENT INDEPENDENTLY TESTED POLYPROPYLENE FIBERS MBAY BE SUBSTITUTED AT A RATE OF 15 POUNDS PER CUBIC YARD OF CONCRETE FOR WELDED WIRE FABRIC IN SLABS ON GRADE. SUBMIT SHOP DRAWINGS AND I.C.B.O. REPORT FOR PROPOSED SUBSTITUTION.

FOR "WELDING" SEE BELOW.

MASONRY:

HOLLOW BRICK UNITS PER A.S.T.M. C652, F'm = 4000 PSI MIN. BLOCK UNITS GRADE N-1 LIGHTWEIGHT CONCRETE, F'm = 1350 PSI (1500 PSI AT SOLID GROUTED AREAS). RUNNING BOND. MORTAR TYPE S. GROUT 2,000 P.S.I. ROD AND REROD GROUT IN VERTICAL SPACES. MAXIMUM GROUT LIFT WITHOUT CLEANOUTS 4'-O" IN BLOCK WALLS. STAY EACH END AND AT 8'-O" O.C. VERTICALLY EACH VERTICAL REBAR USING SINGLE WIRE AND LOOP TYPE TIES.

DO NOT BUILD WHEN AIR TEMPERATURE IS LESS THAN 40 DEGREES F. PLACE PIPES OR CONDUITS IN SLEEVES OR HOLLOW UNFILLED CELLS ONLY.

SEE ARCHITECTURAL DRAWINGS FOR EXPANSION OR CONTROL JOINTS. HOWEVER, THE SPACING SHALL NOT EXCEED 24 FEET. DO NOT LOCATE A JOINT AT LESS THAN 2'-O" FROM BEARING OF BEAM, FRAMING, PERPENDICULAR TO WALL.

8"C.M.U WALL AND 12"C.M.U. AND WALL VERTICAL REINFORCING: IN CENTER OF GROUT AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL AS FOLLOWS:

- 1 #5 AT ALL CORNERS, INTERSECTIONS, WALL ENDS, AND EACH SIDE OF
- 1 #5 AT JAMBS OF OPENING UP TO 3'-O" WIDE.
- 1 #5 IN EACH OF 2 CELLS AT JAMBS OF OPENING UP TO 12'-O" WIDE.
- 1 #5 AT 32" O.C. ELSEWHERE, U.N.O.

DOWEL ALL REBAR TO FOUNDATION. AT LOCATIONS APPROVED BY THE ARCHITECT, THE REBAR MAY BE DOWELLED BY EMBEDDING BAR 6" INTO THE FOUNDATION, IN EPOXY GROUT, IN A 1-1/4" DIAMETER HOLE DRILLED WITH A ROTOHAMMER.

HORIZONTAL REINFORCING: IN MINIMUM 8" DEEP GROUTED BOND BEAM TWO #5, AT TOP OF PARAPETS AND STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS. ADD A MID-HEIGHT BOND BEAM WHEN THE WALL IS HIGHER THAN 12'-O" TO BEARING, OR HIGHER THAN 16'-O" TO TOP OF PARAPET. PROVIDE LADDER TYPE #9 JOINT REINFORCING AT 16" O.C. PLACE BOND BEAM BARS AT ROOF AND FLOOR LINES CONTINUOUS THROUGH JOINTS. GUT OTHER BARS AND JOINT REINFORGING AT WALL JOINTS. GROUT BARRIER BELOW BOND BEAMS SHALL BE CONTINUOUS WIRE LATH.

WALL OPENINGS: 1 - #4 IN 8" BOND BEAM BELOW OPENINGS EXTENDING 24" BEYOND JAMBS. SEE LINTEL SECTION FOR REINFORCING OR STEEL ABOVE ALL OPENINGS.

LINTELS:

UNLESS NOTED OTHERWISE OR SHOWN, PROVIDE LINTELS AT ALL MASONRY OPENINGS PER DETAIL 1/53.4. SEE PLANS FOR LOCATIONS OF NOT-TYPICAL STEEL LINTELS.

STRUCTURAL STEEL:

ASTM A-36 EXCEPT AS FOLLOWS: TUBE STEEL: ASTM A-500 GRADE B (FY = 46 KSI) FOR SIZES UP TO 5/8" THICK. BOLTS AND PLAIN ANCHORS ASTM A-307. HIGH STRENGTH BOLTS, ASTM A-325-N. HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO "SNUG TIGHT" CONDITION PER A.I.S.C. SPECIFICATION FOR STRUCTURAL JOINTS, UNLESS SPECIFICALLY CALLED OUT TO BE "TORQUED AND TESTED" BY A CALIBRATED TORQUE WRENCH, OPEN WEB JOISTS PER STEEL JOIST INSTITUTE SPECIFICATIONS, 1989 AISC MANUAL PARTS I THROUGH 4 AND AISC SPECIFICATIONS APPLY (EXCEPT SECTION AT AND CHAPTER N) AND EXCLUDING 'AISC CODE OF STANDARD PRACTICE."

MINIMUM EMBEDMENT OF ALL HORIZONTAL BOLTS AND PLAIN ANCHORS IN GROUT OR CONCRETE SHALL BE 5 INCHES INCLUDING HEAD OR 5 INCHES WITH A 3 INCH HOOK. VERTICAL BOLTS SHALL HAVE & INCHES VERTICAL EMBEDMENT AND 4 INCHES HOOK. WELDED "ANCHORS" AND WELDED ANCHOR BOLTS SHALL BE HEADED STUDS, WELDED ALL AROUND WITH 5/16 INCH FILLET WELD AND SHALL NOT CONTAIN THREADS. "HEADED ANCHOR STUDS (H.A.S.)" AND "SHEAR CONNECTORS" SHALL BE USED ONLY WHERE SPECIFICALLY CALLED FOR AND SHALL BE NELSON OR KSM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THEY SHALL BE 3/4 INCH DIAMETER X 5 INCHES LONG (4" LONG ON TOP OF STEEL BEAMS) UNLESS NOTED OTHERWISE.

SEE MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT SUPPORT FRAMING AND

CAMBER UP ALL STEEL BEAMS AND GIRDERS WHERE INDICATED ON PLANS WITH NOTATION C = CAMBER IN INCHES

PROVISIONS FOR TEMPERATURE EXPANSION DURING ERECTION: STRUCTURAL STEEL SHALL BE SO DETAILED AND ERECTED SO THAT DURING ERECTION, BEFORE THE DECK IS COVERED AND INSULATED, TEMPERATURE CHANGES ANTICIPATED, DO NOT CAUSE UNACCEPTABLE PERMANENT MISALIGNMENT AND DO NOT THRUST OR PULL AGAINST WALLS SUCH PROVISIONS CAN BE MADE BY PROVIDING TEMPORARY SLIP CONNECTIONS AT SUFFICIENT INTERVALS

STEEL STAIRS AND RAILINGS SHALL CONFORM TO THE CURRENT EDITION OF THE METAL STAIRS MANUAL BY NAAMM, 221 NORTH LASALLE STREET, CHICAGO, ILLINOIS. IN CASE OF CONFLICT SEE SUPPLEMENTARY SECTION THIS SHEET.

FOR "WELDING", SEE BELOW.

SEE "SHOP DRAWING" SECTION ABOVE, FOR SPECIAL REQUIREMENTS

OPEN WEB STEEL JOISTS:

DESIGN, FABRICATION AND ERECTION IN ACCORDANCE WITH LATEST EDITION OF STEEL JOIST INSTITUTE AND APPLICABLE BUILDING CODE BY A MEMBER OF SJI OR AISC APPROVED FOR THE TYPE OF JOIST BEING USED. TOP AND BOTTOM CHORDS SHALL BE HOT ROLLED ANGLES. BRIDGING SHALL BE PER SJI SPECIFICATIONS. PROVIDE ADDED BRIDGING TO BRACE THE BOTTOM CHORDS FOR THE NET UPLIFT WIND LOAD. PROVIDE CAMBER FOR ROOF DEAD LOAD DEFLECTION. LH JOISTS SHALL HAVE END BEARINGS SPECIALLY DESIGNED PER SJI.

WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER INSTALLATIONS REMOVE BRIDGING AFTER DECK IS IN PLACE AND REPLACE AS DIRECTED BY STRUCTURAL ENGINEER THROUGH THE ARCHITECT. DO NOT SUPPORT LOADS FROM BRIDGING - SEE DETAILS FOR SUPPORTING MECHANICAL OR PLUMBING LOADS.

DO NOT DRILL THROUGH OR WELD TO JOIST MEMBERS WITHOUT PRIOR APPROVAL. SEE "STRUCTURAL STEEL" NOTES OR DETAIL FOR ADDITIONAL WEB ANGLE REQUIREMENTS AT MISCELLANEOUS FRAMING CONNECTIONS.

THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND DETAILED SHOP DRAWINGS BEARING THE SEAL OF AN ENGINEER REGISTERED IN ARIZONA FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INDICATE MEMBER SIZES AND JOINT

I-I/2", TYPE B, METAL ROOF DECK:

STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS APPLY, EXCEPT AS NOTED OTHERWISE. DECK SHALL BE GALVANIZED, MINIMUM 20 GAGE, I-1/2" DEEP, WITH MINIMUM S = .228 INCH CUBED PER FOOT OF WIDTH. DECK UNITS SHALL BE CONTINUOUS OVER THREE SPANS, EXCEPT THAT SIMPLE SPANS ARE REQUIRED WHERE DECK WARPS TO MEET ROOF SLOPES. USE NEXT HEAVIER GAGE FOR SIMPLE OR TWO SPAN CONTINUOUS CONDITIONS.

SUSPEND CEILING FROM DECK FLUTES. HOWEVER, DO NOT SUSPEND PLASTERED CEILING FROM DECK. MINIMUM ALLOWABLE DIAPHRAGM SHEAR PER ICBO REPORT SHALL BE 600 POUNDS PER FOOT. PROVIDE ALL NECESSARY DETAILS SUCH AS EDGE FORM, SPLICE PLATES, PROFILE PLATES, ETC. ERECT IN ACCORDANCE WITH THE REPORT TO MEET THE SHEAR REQUIREMENTS SPECIFIED ABOVE, EXCEPT THAT IN NO CASE SHALL CONNECTION TO STEEL MEMBERS BE LESS THAN NOTED BELOW. PUDDLE WELD TO STEEL, USING 1/2" DIAMETER FUSION AREA, 3/4" TO 1" WELD DIMENSION AT TOP, AS

- 1. TO ALL TRANSVERSE SUPPORTS: JOISTS, BEAMS, ANGLES, PLATES, ETC. SEVEN WELDS PER SHEET. WELD EACH SIDE OF SEAM AND FIVE
- 2. TO ALL STEEL PARALLEL TO FLUTES, 18" O.C.
- 3. TO EACH FLUTE AND AT 6" ON CENTERS AT OPENING EDGES.
- 4. STANDING SEAM SIDE LAPS 1-1/2" LONG, TOP SEAM WELD AT 12" O.C. ALL SHEETS TO BE 36" WIDE. NARROWER CLOSURE STRIPS SHALL NOT BE LESS THAN 1'-6" WIDE AND SHALL BE WELDED TO ADJACENT FULL SHEET WITH I" LONG SEAM WELDS AT 12" O.C.

SHOP DRAWINGS SHALL SHOW THE ERECTION PROCEDURE AND DETAILS, THE ICBO REPORT NUMBER, AND DIAPHRAGM SHEAR FURNISHED AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

FOR "WELDING" SEE BELOW.

STEEL FLOOR DECK COMPOSITE WITH CONCRETE SLAB!

STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS APPLY, EXCEPT AS NOTED OTHERWISE. DECK SHALL BE 2" MAXIMUM DEPTH WITH DEFORMATIONS TO PROVIDE STRUCTURAL BOND WITH CONCRETE. DECKING SHALL BOND TO CONCRETE AND BE TREATED PER CURRENT ICBO RESEARCH RECOMMENDATION FOR RUST PREVENTION. DECK SHALL BE GALVANIZED. DECK, ACTING COMPOSITE WITH CONCRETE SLAB EXCEPT AS NOTED BELOW, SHALL BE MINIMUM 20 GAGE OR HEAVIER AS REQUIRED BY FIRE RATING AND CONSTRUCTION LOAD REQUIREMENTS. FOR EXCEPTIONS, SEE PLAN NOTES. THE LOAD AND SHEAR CAPACITY SHALL BE EQUIVALENT TO THAT LISTED FOR VERCO DECK (ICBO #2018) AS DEMONSTRATED BY CURRENT ICBO REPORT FOR THE DECK. FIRE RATING OF THE ASSEMBLY, INCLUDING THE SPRAYED ON FIREPROOFING REQUIRED, IF ANY, SHALL NOT BE LESS THAN ONE HOUR PER CURRENT U.L. RECOMMENDATIONS. PROVIDE ALL NECESSARY DETAILS, SUCH AS FILLER AND SPLICE PLATES AND EDGE FORM PLATES TO COMPLETE THE JOB.

ERECT IN ACCORDANCE WITH THE CURRENT INTERNATIONAL CONFERENCE OF BUILDING OFFICIAL RESEARCH COMMITTEE RECOMMENDATIONS TO MEET THE LOAD AND SHEAR REQUIREMENTS STATED ABOVE, EXCEPT THAT IN NO CASE SHALL CONNECTIONS TO STEEL MEMBERS BE LESS THAN SHOWN AS FOLLOWS:

PUDDLE WELD DECK TO SUPPORTING STEEL WITH 1/2" DIAMETER FUSION AREA, 3/4" TO " WELD DIMENSION AS FOLLOWS:

- I. EACH FLUTE TO ALL TRANSVERSE SUPPORTS
- 2. |2" O.C. TO STEEL PARALLEL TO FLUTES.
- 3. EACH FLUTE AND AT 12" ON CENTERS AT OPENING EDGES.
- 4. WELD SIDE SEAMS AT 3'-O" O.C. WITH I-1/2" LONG TOP SEAM WELD.

SHOP DRAWINGS SHALL SHOW THE ERECTION PROCEDURE AND DETAILS, THE ICBO REPORT NUMBER, DIAPHRAGM SHEAR AND LOAD CAPABILITY FURNISHED, AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

PROVIDE SHORING IF REQUIRED TO SUPPORT CONSTRUCTION LOADS.

ALL CONSTRUCTION AND TESTING PER AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR.

WELDING RODS TO BE LOW HYDROGEN TYPE, ETO SERIES, PER AWS DIJ TYPICALLY EXCEPT E-6010 SERIES FOR STEEL SHEET METAL PER AWS DI.3 AND REINFORCING WELDMENTS PER AWS DI.4. USE E90 SERIES WELDING RODS FOR A106 REBAR.

ALL FULL-PENETRATION GROOVE OR BUTT WELDED SPLICES IN MATERIAL THICKER THAN 5/16" SHALL BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY, WHICH SHALL TEST ULTRASONICALLY A SUFFICIENT NUMBER OF WELDS BUT NOT LESS THAN 25 PERCENT OF TOTAL PER WELDER, TO CERTIFY ALL SPLICES AS MEETING OR EXCEEDING STRENGTH OF MATERIAL SPLICED. TWO COPIES OF ALL TEST REPORTS AND A LETTER OF SUCH CERTIFICATION SHALL BE SUBMITTED TO THE ARCHITECT

SHOP INDICATED WELDS MAY BE DONE IN FIELD WITH APPROVAL.

SUPPLEMENTARY NOTES:

PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION

ANY MEMBERS REQUIRED TO SUPPORT EQUIPMENT FROM THE FRAMING SHOWN SHALL BE DESIGNED AND PROVIDED BY THE EQUIPMENT CONTRACTOR.

FOR CONNECTIONS, SEE DETAILS. IF NOT SHOWN OR NOTED, MINIMUM CONNECTIONS TO BE INCLUDED IN COST SHALL BE TWO 3/4" DIAMETER BOLTS OR 3/16" FILLET WELD 4" LONG USING 1/4" CONNECTION MATERIAL AND DETAILED TO MINIMIZE BENDING IN CONNECTION. PROCEED AFTER CLARIFICATION THROUGH SHOP DRAWING SUBMITTAL

EXPANSION BOLTS IN CONCRETE SHOWN IN DRAWINGS SHALL BE KWIK-BOLTS OR HO! BY HILTI, OR APPROVED EQUIVALENT WITH ALLOWABLE VALUES EQUAL TO OR EXCEEDING THOSE FOR HILTI, PER CURRENT ICBO RESEARCH RECOMMENDATION. EMBED 3-1/4" MINIMUM FOR 3/4" DIAMETER BOLTS. WHERE SPALLING IS ANTICIPATED DUE TO INSUFFICIENT EDGE DISTANCE, USE THREADED ANCHOR ROD EPOXIED INTO DRILLED

"COMPRESSIBLE MATERIAL" SHALL BE SPONGE RUBBER.

OPTIONS AND APPROVED SUBSTITUTIONS ARE FOR CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANGES AND ADDITIONAL COSTS NECESSARY AND HE SHALL COORDINATE ALL DETAILS.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BE BY AN INSURED REGISTERED ENGINEER WITH CONTINUOUS FIVE YEARS OF EXPERIENCE IN THE TYPE OF DESIGN SUBMITTED.

UNLESS NOTED OTHERWISE, DETAILS ON STRUCTURAL DRAWINGS ARE TYPICAL AS INDICATED BY CUTS, REFERENCES, OR TITLES.

IN CASE OF CONFLICTS, MORE COSTLY REQUIREMENTS GOVERN FOR BIDDING. SUBMIT CLARIFICATION REQUEST PRIOR TO PROCEEDING WITH WORK.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

CONTRACTOR SHALL ESTABLISH AND VERIFY IN FIELD ALL EXISTING CONDITIONS AFFECTING NEW CONSTRUCTION. CONTACT ARCHITECT AND GEOTECHNICAL ENGINEER IMMEDIATELY IF EXISTING CONDITIONS ARE NOT AS DEPICTED IN DRAWINGS.

DRY PACK IN SPACES LARGER THAN 3/8" SHALL BE ONE PART CEMENT AND 2-1/2 PARTS SAND WITH JUST ENOUGH WATER TO HYDRATE CEMENT AND FORM A BALL SHOWING MOISTURE ON THE SURFACE WHEN SQUEEZED. IT SHALL BE RAMMED IN TIGHT TO MAXIMUM DENSITY ATTAINABLE. MINIMUM 28 DAY STRENGTH TO BE 5,000 P.S.I.

GROUT OTHER THAN FOR FILLING MASONRY CELLS, SHALL BE NON-SHRINK, NON-METALLIC, MEETING ASTM C-827, C-191, AND C-109, MIXED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. MINIMUM COMPRESSIVE STRENGTH 5,000 P.S.I. IN THO DAYS.

ENGINEERING DESIGN TO BE PROVIDED BY CONTRACTOR:

THE CONTRACTOR SHALL INCLUDE IN HIS BID, CONSTRUCTION COSTS AND STRUCTURAL DESIGN BY AN INSURED ARIZONA REGISTERED ENGINEER OR THE ENGINEER'S BONA FIDE EMPLOYEE FOR THE FOLLOWING PHASES OF CONSTRUCTION, IF APPLICABLE.

THE DESIGN ENGINEER SHALL HAVE CONTINUOUS FIVE YEARS OF EXPERIENCE IN THE TYPE OF DESIGN SUBMITTED, OR SHALL BE PREQUALIFIED BY THE ARCHITECT. A. CORRECTIVE MEASURES FOR ERRORS IN CONSTRUCTION, WHEN SUCH MEASURES ARE

- ACCEPTABLE TO THE ARCHITECT B. SUPPORT SYSTEM FOR MECHANICAL EQUIPMENT INCLUDING SPRINKLERS, PIPING CONCENTRATIONS DESIGN TO BE WITHIN ASSUMED LOADS PER GENERAL STRUCTURAL NOTES.
- C. STEEL JOISTS.

STRUCTURAL DRAWING LIST SHT. NO. SHEET TITLE GENERAL STRUCTURAL NOTES SI.2 INTERPRETAION OF DRAWINGS FOUNDATION PLAN - AREA A 52.2 FOUNDATION PLAN - AREA B CONCRETE "CAP" SLAB PLAN & STRUCTURAL DETAILS 52.3 52.4 SECOND FLOOR FRAMING PLAN - AREA A 52.5 SECOND FLOOR FRAMING PLAN - AREA B 52.6 ROOF FRAMING PLAN SUPPORT BUILDING FOUNDATION & FRAMING PLANS 52.7 STRUCTURAL DETAILS 53.2 STRUCTURAL DETAILS 53.3 STRUCTURAL DETAILS 53.4 STRUCTURAL DETAILS 53.5 STRUCTURAL DETAILS 53.6 STRUCTURAL DETAILS

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TIMOTHY S. SEPPER Vr. 1-7-92

PROJECT NAME

DATE 1-7-92 SSUED FOR DATE MCITY PLAN CHECK 4-3-92

SHEET TITLE GENERAL STRUCTURAL

SHEET NO.

NOTES

INTERPRETATION OF DRAWINGS

	ABB	REVIÁTIONS	
	- ANCHOR BOLT(S) - AT	LB OR #	-KIP = 1000 LBS, -POUND(S)
ACI	- AGGREGATE BASE COURSE - AMERICAN CONCRETE INSTITUTE	LL L.L.H.	-LONG -LIVE LOAD -LONG LEG HORIZONTAL
	- ADDITIONAL - AMERICAN INSTITUTE OF STEEL CONSTRUCTION	L00.	-LONG LEG VERTICAL -LOCATION -LIGHT
APPROX.	-ANCHOR -APPROXIMATE -ARCHITECT OR	LWG MACH	-LIGHT WEIGHT CONCRETE -MACHINE -MASONRY
	ARCHITECTURAL DOCUMENTS - AMERICAN SOCIETY FOR TESTING AND MATERIALS	MATL. MAX.	- MATERIAL - MAXIMUM
AVG	- AMERICAN WELDING SOCIETY - AVERAGE	MEMB. MEZZ.	- MECHANICAL - MEMBRANE - MEZZANINE
BLK.	-BUILDING -BLOCK -BEAM	MID.	-MANUFACTURER -MIDDLE -MINIMUM
BRG.	-BOTTOM -BEARING -BETWEEN	MISC MO	-MISCELLANEOUS -MASONRY OPENING
BW CALCS	-BUTT WELD -CALCULATIONS	MTL. NAAMM	-MECHANICAL, PLUMBING, ELECTRICAL -METAL -NATIONAL ASSOCIATION OF
C-C .	- CANTILEVER - CENTER TO CENTER - CEILING	NF .	ARCHITECTURAL METAL MANUFACTURER! - NEAR FACE - NUMBER
	-CAST IN PLACE -CONTROL JOINT OR CONSTRUCTION JOINT	NS -	-NORTH -NEAR SIDE -NORTH-SOUTH
CMU.	-CLEAR -CONCRETE MASONRY UNIT	N.T.S. O.C. OR O/C	-NOT TO SCALE -ON CENTER
CLOS. CLR.	- CENTER LINE - CLOSURE - CLEAR	OF.	- OUTSIDE DIAMETER - OUTSIDE FACE - OVERHANG
CONC.	-COLUMN -CONCRETE -CONNECTION	OPP .	- OPENING - OPPOSITE - OPPOSITE HAND
CONSTR.	-CONSTRUCTION -CONTINUE OR CONTINUOUS	PCF PEN	-POUNDS PER CUBIC FOOT -PENETRATION
CTR. OR CNTR	-CONTRACTOR -CENTER -CENTERED	PERP.	-PLATE -PERPENDICULAR -PROPERTY LINE
DEPR -	-DOUBLE -DEPRESSION -DETAIL	PP .	-POUNDS PER LINEAL FOOT -PANEL POINT OR PARTIAL PENETRATION -PRELIMINARY
DIA. OR ϕ - DIAG	-DIAMETER -DIAGONAL	PSI - R. OR RAD	-POUNDS PER SQUARE INCH -RADIUS
DL -	-DIMENSION -DEAD LOAD -DOWN	REINF	-RISER (STAIR) -REINFORCED OR REINFORCING -REQUIRED
DWG. 1 -	-DEEP OR DEPTH -DRAWING(S) -DOWEL	S (In) -	-ROOM -SECTION MODULUS -SCHEDULE
E (psi) - EA	-MODULUS OF ELASTICITY -EACH -EACH FACE	SECT - SH OR SHT -	-SECTION -SHEET
E.J. E. OR ELECT'L	-EXPANSION JOINT -ELECTRICAL	SLV -	-SIMILAR -SLEEVE OR SHORT LEG VERTICAL
ENGR -	-ELEVATION -ENGINEER -EQUAL	50 -	-SHORT LEG HORIZONTAL -SOUTH -STEEL JOIST INSTITUTE
EM -	-EACH SIDE -EACH WAY -EAST-WEST	SP OR SPCS -	-SLAB ON GRADE -SPACES -SPACING
EXC - EXIST	-EXCAVATE -EXISTING	SPEC SQ	-SPECIFICATION -SQUARE
EXT	-EXPANSION -EXTERIOR -FABRICATE	STIFF	-STANDARD -STIFFENER -STEEL
F.F	-FOUNDATION -FAR FACE -FINISH	SYMM	-STRUCTURE OR STRUCTURAL -SYMMETRICAL -TOP OR TREAD (STAIR)
FLG FLR	-FLANGE -FLOOR -FACE OF MASONRY	T&B -	-TOP AND BOTTOM -THICK OR THICKNESS
FRMG FS -	-FRAMING -FAR SIDE	TL -	-THICKENED -TOTAL LOAD -TOP OF CONCRETE
FT6, -	-FOOT-FEET -FOOTING -FILLET WELD	TOS -	-TOPPING -TOP OF STEEL -TRUSS
6A	-YIELD STRESS OF STEEL -GAGE OR GUAGE -GALVANIZED	UBC =	-TYPICAL -UNIFORM BUILDING CODE -UNIFES NOTED OTHERWISE
GC OR GEN CONTR GLU-LAM -	-GENERAL CONTRACTOR -GLUE LAMINATED	VERT W -	-UNLESS NOTED OTHERWISE -VERTICAL -WITH
G.S.N H.A.S	-GRADE -GENERAL STRUCTURAL NOTES -HEADED ANCHOR STUD	W.P.	-WITHOUT -WORKING POINT -WEIGHT
H.S	-HORIZONTAL -HIGH STRENGTH -HEIGHT	W.W.F. OR W.W.M X-BRACE -	-WELDED WIRE FABRIC -CROSS BRACING -EXTRA STRONG
l (in 🗦 -	-MOMENT OF INERTIA -INTERNATIONAL CONFERENCE		- DOUBLE EXTRA STRONG
I.F.	OF BUILDING OFFICIALS - INSIDE DIAMETER - INSIDE FACE		
INCL -	- INCH - INCLUDE - INFORMATION		
INT	-INTERIOR -JOINT		

PLAN LEGEND								
SYMBOL	DESCRIPTION	REMARKS						
	INTERIOR NON-BEARING MASONRY WALL	SEE G.S.N. FOR REINFORCING SEE DETAIL 14/53.1 FOR FOOTING						
	MASONRY BEARING WALL AND FOOTING	SEE G.S.N., SHEET SI.I AND TYPICAL DETAIL 12/53.I						
- ,#4@ 2" (B)	BOTTOM REINFORCING BAR IN CONCRETE SLAB	#4012" - INDICATES SIZE AND SPACING OF REINF. BARS. (B) - INDICATES BOTTM BARS						
#4@I2" (T)	TOP REINFORCING BAR IN CONCRETE SLAB	#4@12" - INDICATES SIZE AND SPACING OF REINF. BARS. (T) - INDICATES TOP BARS						
M21 X 44 [10] (C=1")	STEEL BEAM	W21 X 44 - INDICATES BEAM SIZ [IO] - INDICATES NUMBER OF SHE STUDS EQUALLY SPACED (C=I") - INDICATES BEAM CAMBE						
-3"	DEPRESSED OR SLOPING SLAB	-3" - INDICATES DEPTH OF DEPRESSION, OR SEE ARCH'L. DRW'G. FOR SLOPE.						
	OPENING IN FRAMING PLAN	SEE NOTE 3 IN "TYPICAL NOTES" SECTION AT RIGHT.						
4000#	MECHANICAL EQUIPMENT HUNG FROM STRUCTURE	4000# - INDICATES MAXIMUM OPERATING WEIGHT INCLUDING WATER, IF ANY.						
4000#	MECHANICAL EQUIPMENT BEARING ON TOP OF STRUCTURE	4000# - INDICATES MAXIMUM OPERATING WEIGHT INCLUDING WATER, IF ANY.						
T.O.S. +15'	TOP OF STEEL ELEVATION	+15' - INDICATES HEIGHT ABOVE DATUM ELEVATION						
+0'-0"	TOP OF CONCRETE SLAB ELEVATION	INDICATES HEIGHT ABOVE/BELOI DATUM ELEVATION						
→	INDICATES STEEL BEAM OR COLUMN IN POLICE BUILDING TO RECEIVE SPRAYED -ON FIREPROOFING.	SEE DETAILS II \$ 12/A4,7 NOTE: ALL BEAMS/JOISTS IN JAIL BUILDING RECEIVE FIREPROPER ARCHITECTURAL DRAWINGS						

GENERAL DETAIL REFE	erences
DETAIL	DETAIL NO./SH
CONSTRUCTION JOINT	
(C.J.) IN SLAB ON GRADE	2/53.1
SUPPLEMENTARY REINFORCEMENT REQUIRED AT SMALL OPENING IN SLAB	6/52.3
STAIR STRINGER DETAILS	17/53.3
SLAB EDGES	4/53.l
METAL DECK TO COMPOSITE STEEL BEAM	12/53.2
STEP IN FOOTING	7/53,1
SLOPING FOOTING	8/53.1
MECHANICAL EQUIPMENT HOUSEKEEPING PAD	
MAXIMUM SLOPES BETWEEN ADJACENT EXCAVATIONS.	9/53.1
DETAILS OF PIPE AT CONCRETE FOOTING	17/53.1
JOIST REINFORCING FOR CONCENTRATED LOAD	7/53.2
MISC. FRAMING TO TOP OF JOIST	9/53.2
LARGE OPENINGS IN METAL DECK	10/53.2
SMALL OPENING IN METAL DECK	
SMALL OPENINGS IN METAL DECK AND SLAB	13/53.2
FOOTING CONTINUOUS UNDER WALL OPENING	19/53.5
STANDARD STIFFENER	3/53.2
TYPICAL REINFORCING BAR DETAILS	9/93.3
MINIMUM SIZE FILLET WELDS	1/53.2
TYPICAL REBAR TENSION LAP SPLICES	5/93.6
DOUBLE ANGLE FRAMED BEAM CONNECTION	18/53.2
CONSTRUCTION JOINT IN ABOVE GRADE SLAB	4/53.3
STEPPED BOND BEAM	II/53.3
LINTELS AT MASONRY WALLS	7/53.4
CONTROL JOINTS AT LINTELS	4/53.4

TYPICAL NOTES

- I. SEE "GENERAL DETAIL REFERENCES" ABOVE FOR TYPICAL DETAILS AND GENERAL REFERENCES THAT MAY NOT BE CUT ON PLANS.
- 2. ALL DIMENSIONS AND ELEVATIONS ON STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS. RESOLVE ALL DISCREPANCIES WITH ARCHITECT PRIOR TO START OF CONSTRUCTION.
- 3. FOR CLARITY, ALL OPENINGS MAY NOT BE SHOWN ON FRAMING PLANS. SEE ALSO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PLANS. ALL OPENINGS AND PENETRATIONS SHALL BE LOCATED AND VERIFIED BY ALL TRADES FROM DRAWINGS MADE BY THEM. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK SHOWN ON DRAWINGS IF IN CONFLICT UNTIL RECEIVING CLARIFICATION FROM THE ARCHITECT. FOR FRAMING AT OPENING, SEE TYPICAL STRUCTURAL DETAILS.
- 4. FIREPROOFING OF STRUCTURAL ELEMENTS IS SHOWN ON ARCHITECTURAL PLANS.
- 5. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FOR DIMENSIONS.
- 6. ALL COLUMNS CENTERED ON GRID LINES, U.N.O.
- 7. ALL FOOTING CENTERED BELOW COLUMNS/WALLS, U.N.O.
- 8. ALL BEAMS CENTERED ON COLUMN LINES, U.N.O.
- 9. SEE ARCHITECTURAL & CIVIL DRAWINGS FOR EXTERIOR PAVING NOT SHOWN ON THESE DRAWINGS.

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KE HAVASU OTY, ARIZONA

DATE 1-7-92
ISSUED FOR DATE

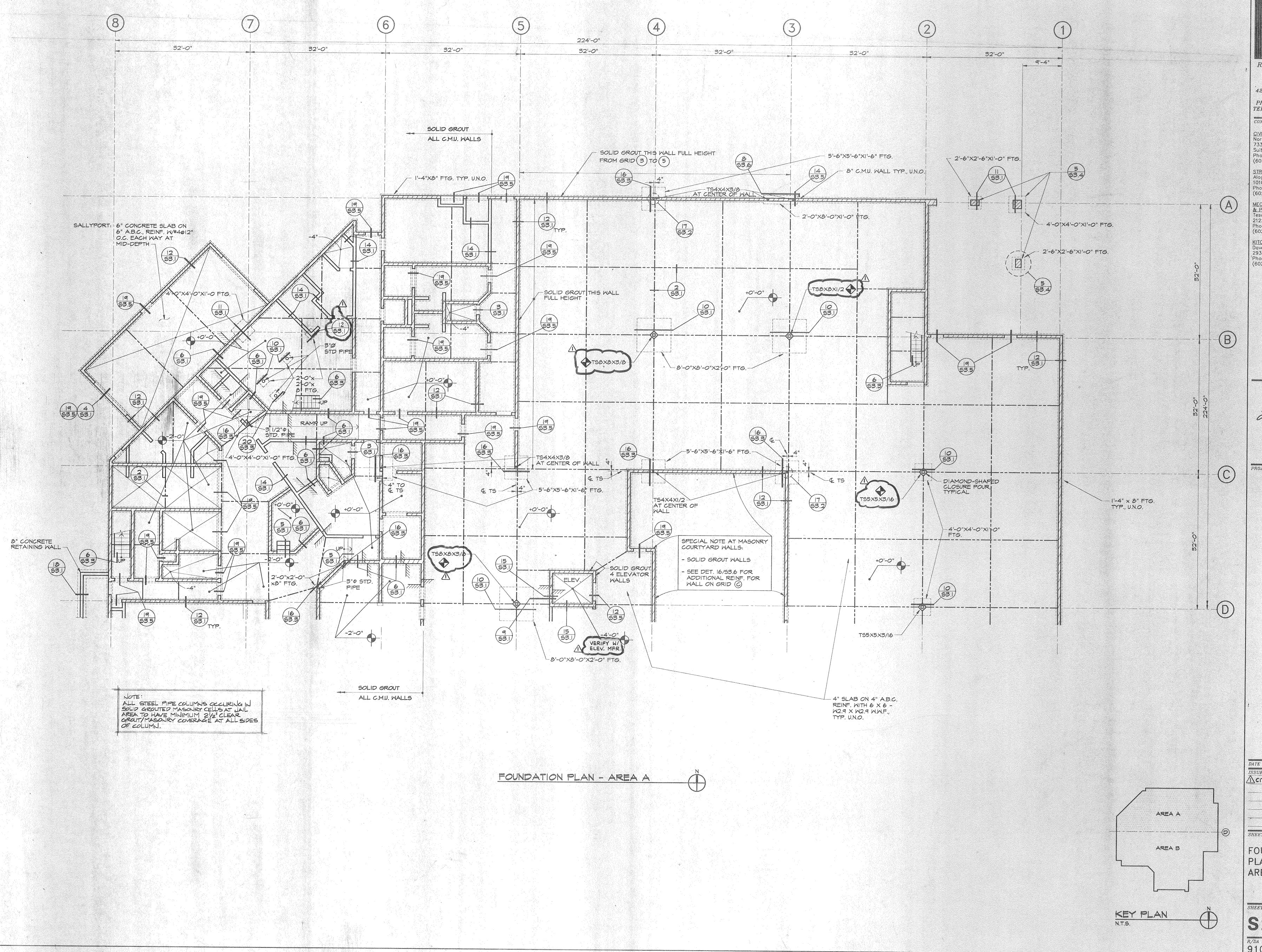
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INTERPRETATION OF DRAWINGS

SHEET NO.

R/DA PROJECT NO.
91006

SHEET TITLE





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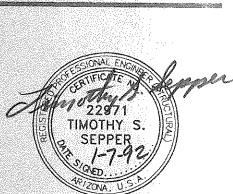
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LAKE TAVASU CETA

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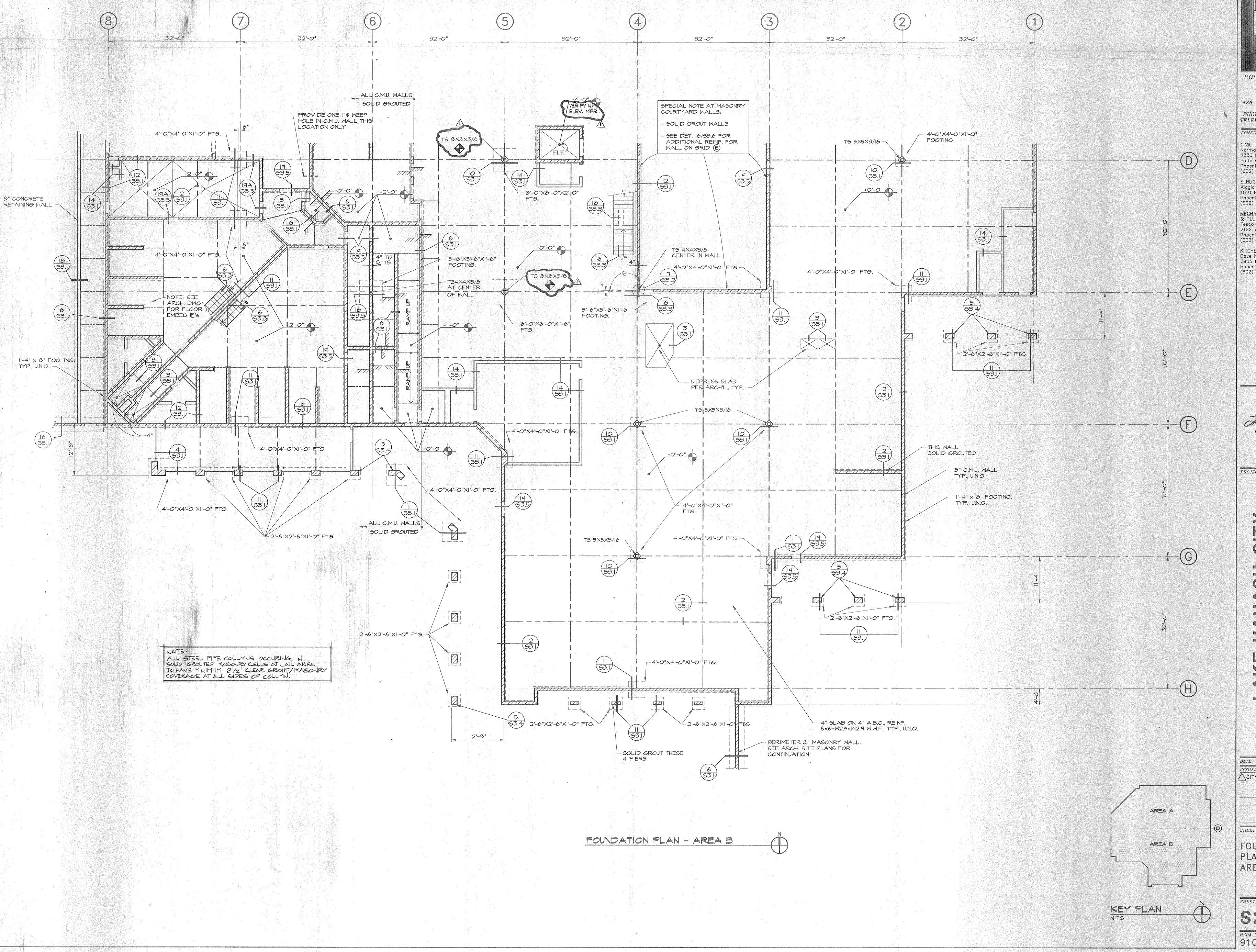
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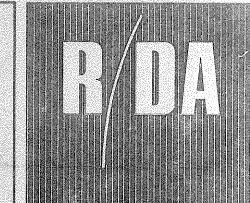
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SHEET TITLE

FOUNDATION
PLAN —
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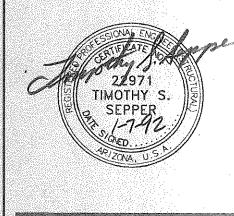
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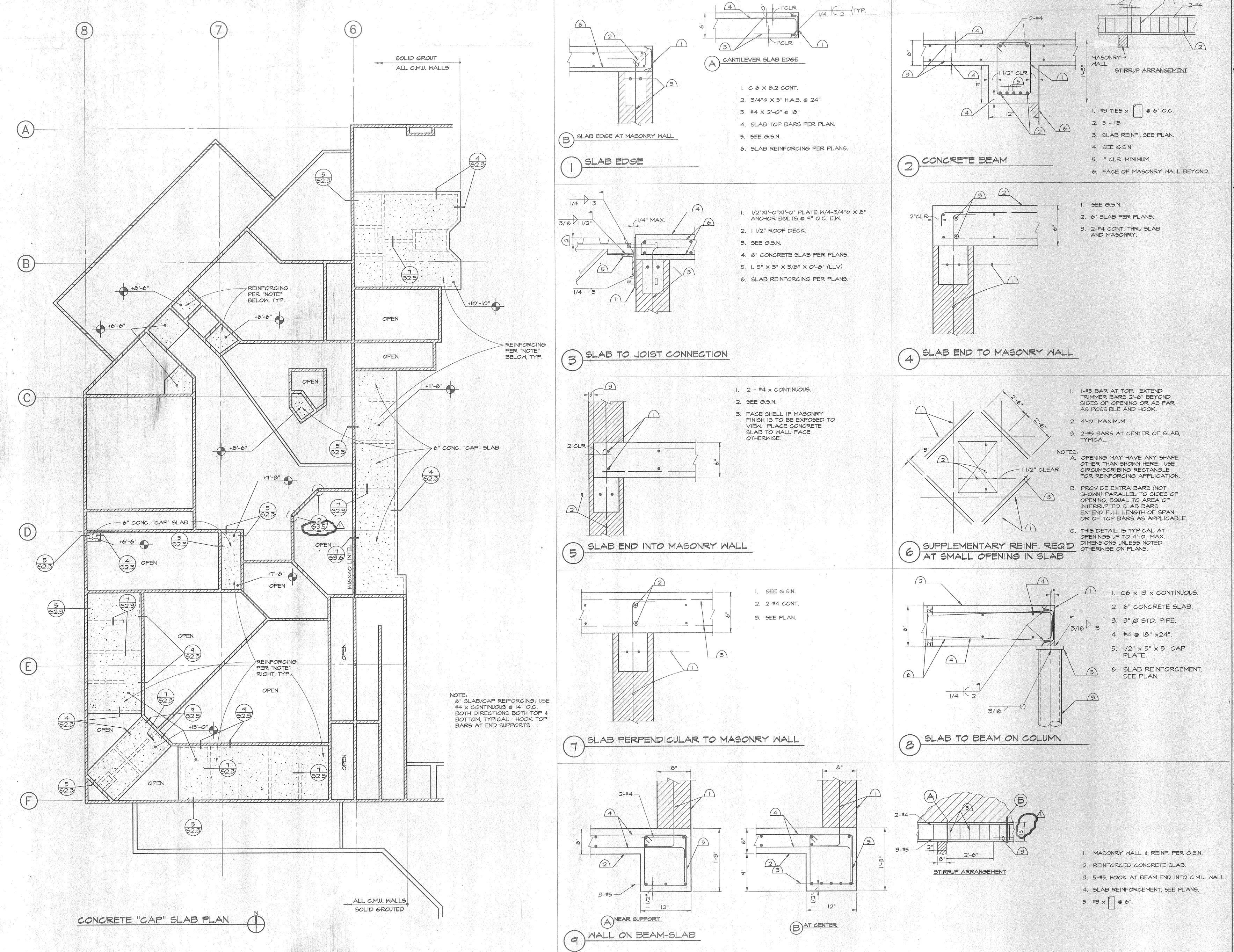
PROJECT NAME

DATE 1-6-92 ISSUED FOR ACITY PLAN CHECK 4-3-92

SHEET TITLE FOUNDATION

PLAN -AREA B

r/da project no. 91006



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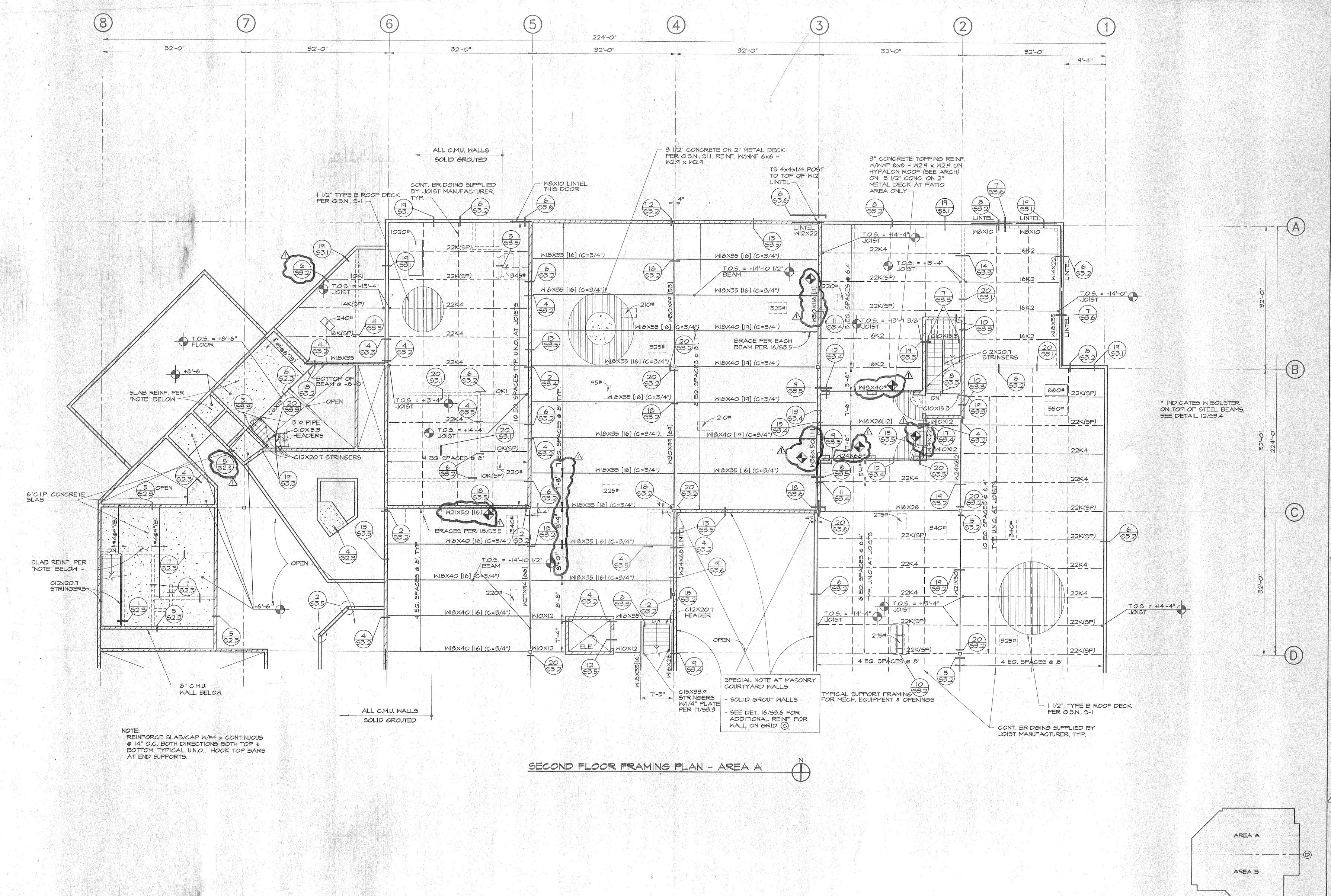
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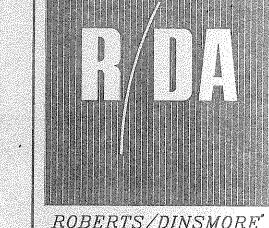
SHEET TITLE

CONCRETE "CAP" SLAB PLAN & STRUCTURAL DETAILS

SHEET NO.

S2.3





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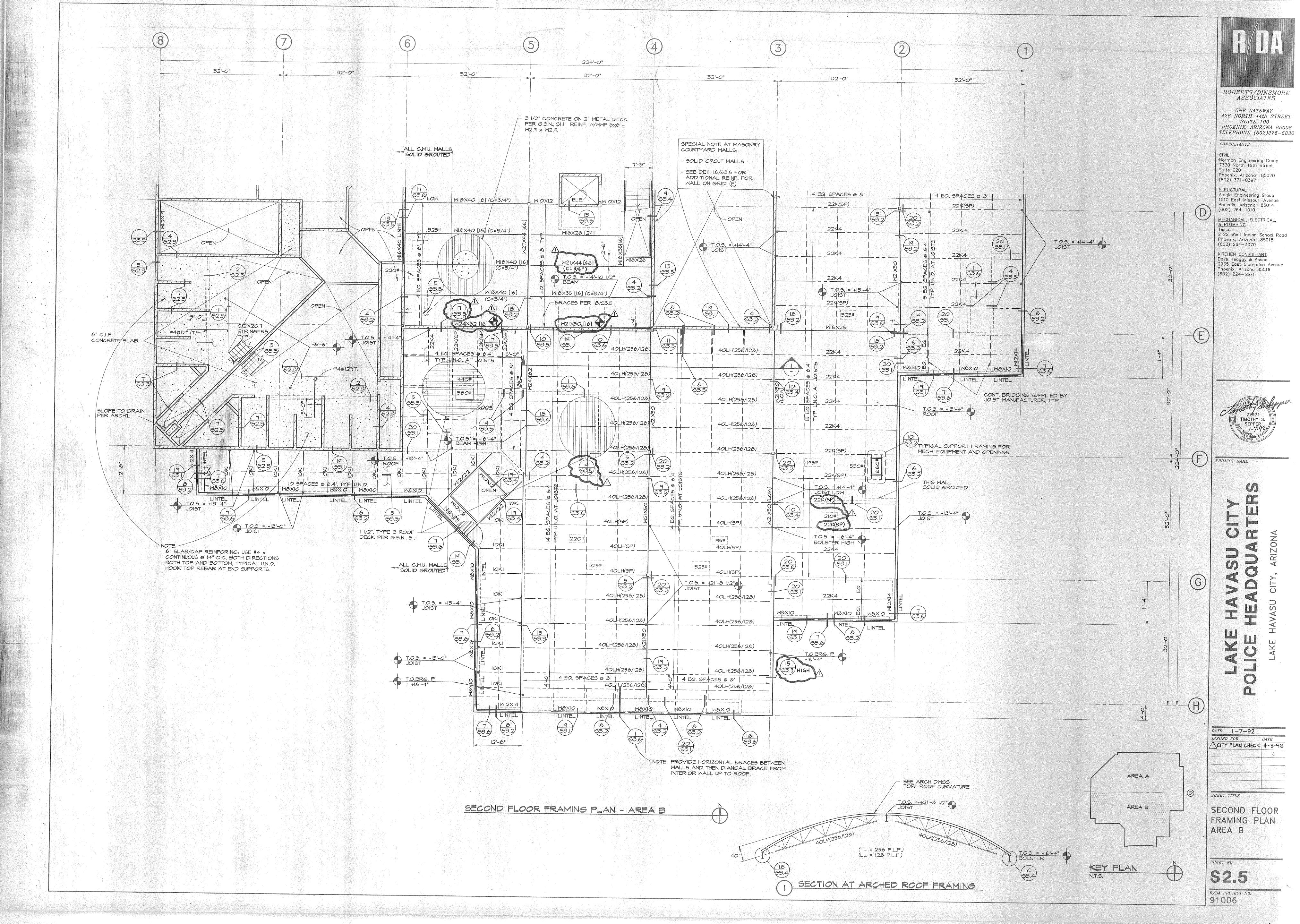
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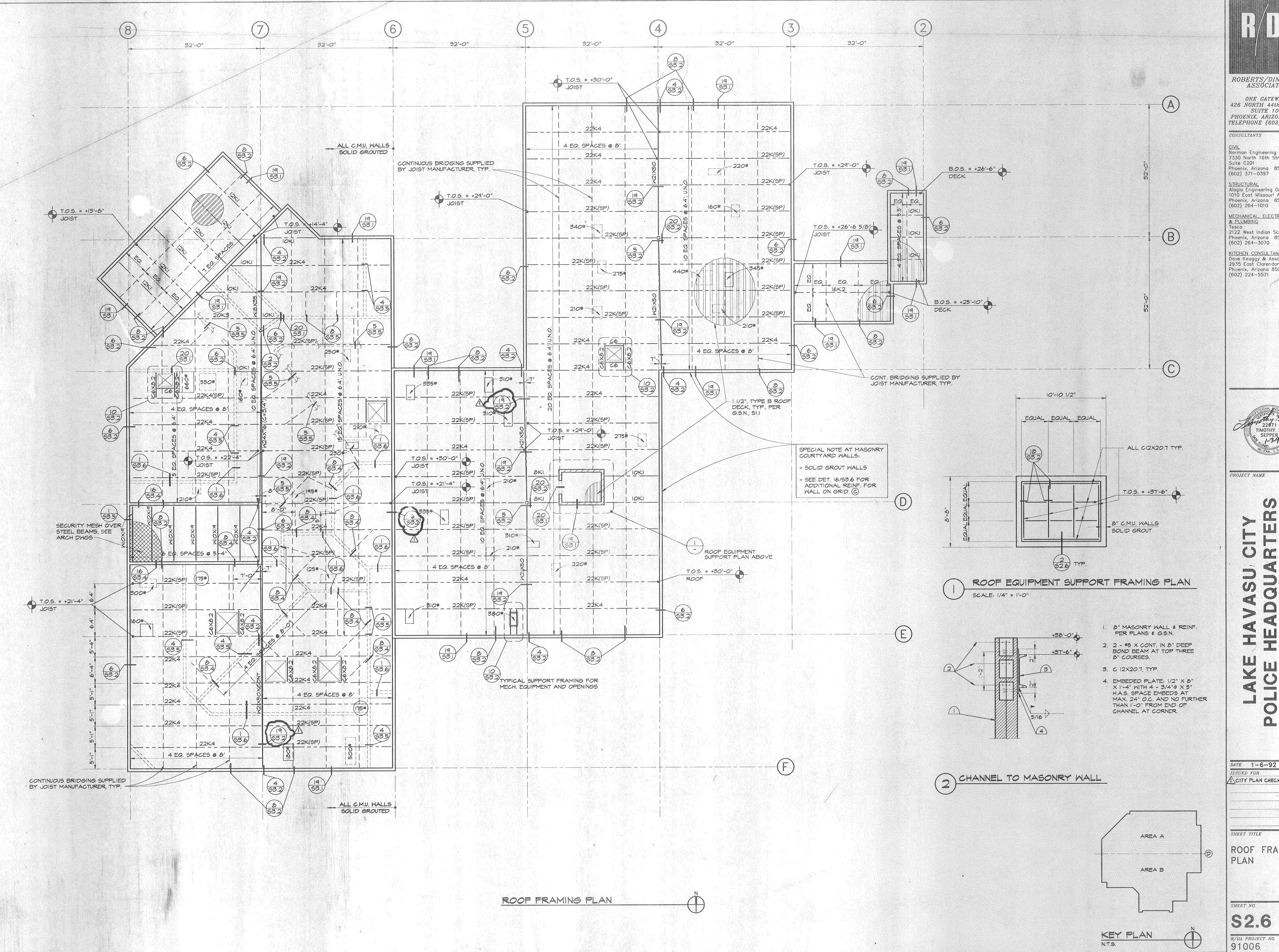
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ISSUED FOR DATE
ACITY PLAN CHECK 4-3-92

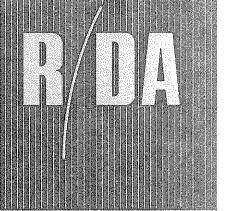
SECOND FLOOR

SECOND FLOOR FRAMING PLAN AREA A

SHEET NO.







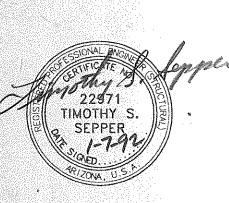
ROBERTS/DINSMORE ASSOCIATES

ONE GATEWAY 426 NORTH 44th STREET SUITE 100 PHOENIX, ARIZONA 85008 TELEPHONE (602)275-6830 CONSULTANTS

<u>CIVIL</u> Norman Engineering Group 7330 North 16th Street Suite C201 Phoenix, Arizona 85020 (602) 371-0397 STRUCTURAL

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KITCHEN CONSULTANT Dave Keaggy & Assoc. 2935 East Clarendon Avenue Phoenix, Arizona 85016 (602) 224-5571



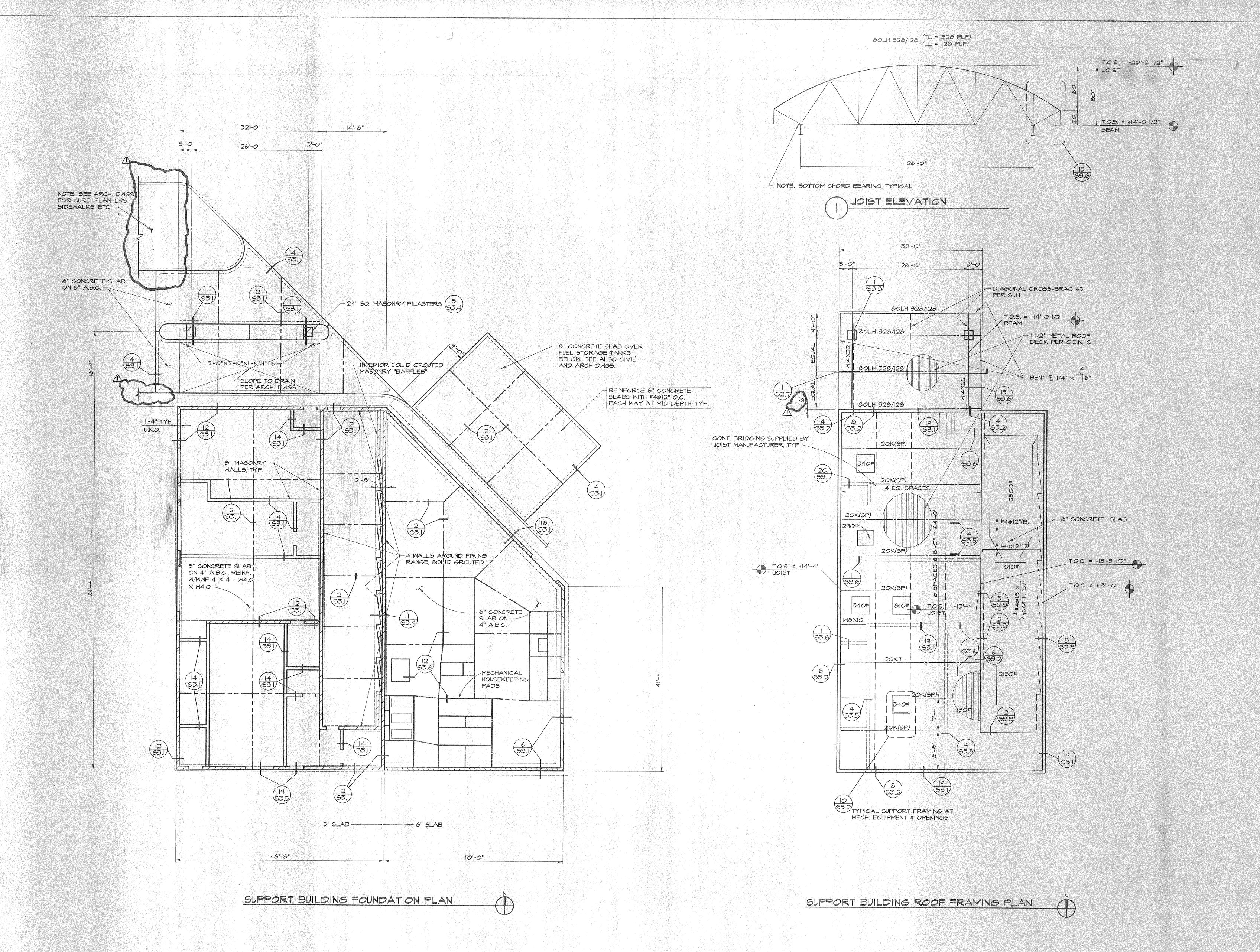
PROJECT NAME

DATE 1-6-92 SSUED FOR ACITY PLAN CHECK 4-3-92

SHEET TITLE

ROOF FRAMING PLAN

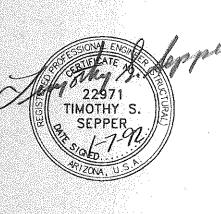
S2.6



ONE GATEWAY 426 NORTH 44th STREET SUITE 100 PHOENIX, ARIZONA 85008 TELEPHONE (602)275-6830 CONSULTANTS

CIVIL Norman Engineering Group 7330 North 16th Street Suite C201 Phoenix, Arizona 85020 (602) 371—0397 STRUCTURAL Alagia Engineering Group 1010 East Missouri Avenue Phoenix, Arizona 85014 (602) 264-1010 MECHANICAL, ELECTRICAL, & PLUMBING

2122 West Indian School Road Phoenix, Arizona 85015 (602) 264—3070 <u>KITCHEN CONSULTANT</u> Dave Keaggy & Assoc. 2935 East Clarendon Avenue Phoenix, Arizona 85016 (602) 224—5571



PROJECT NAME

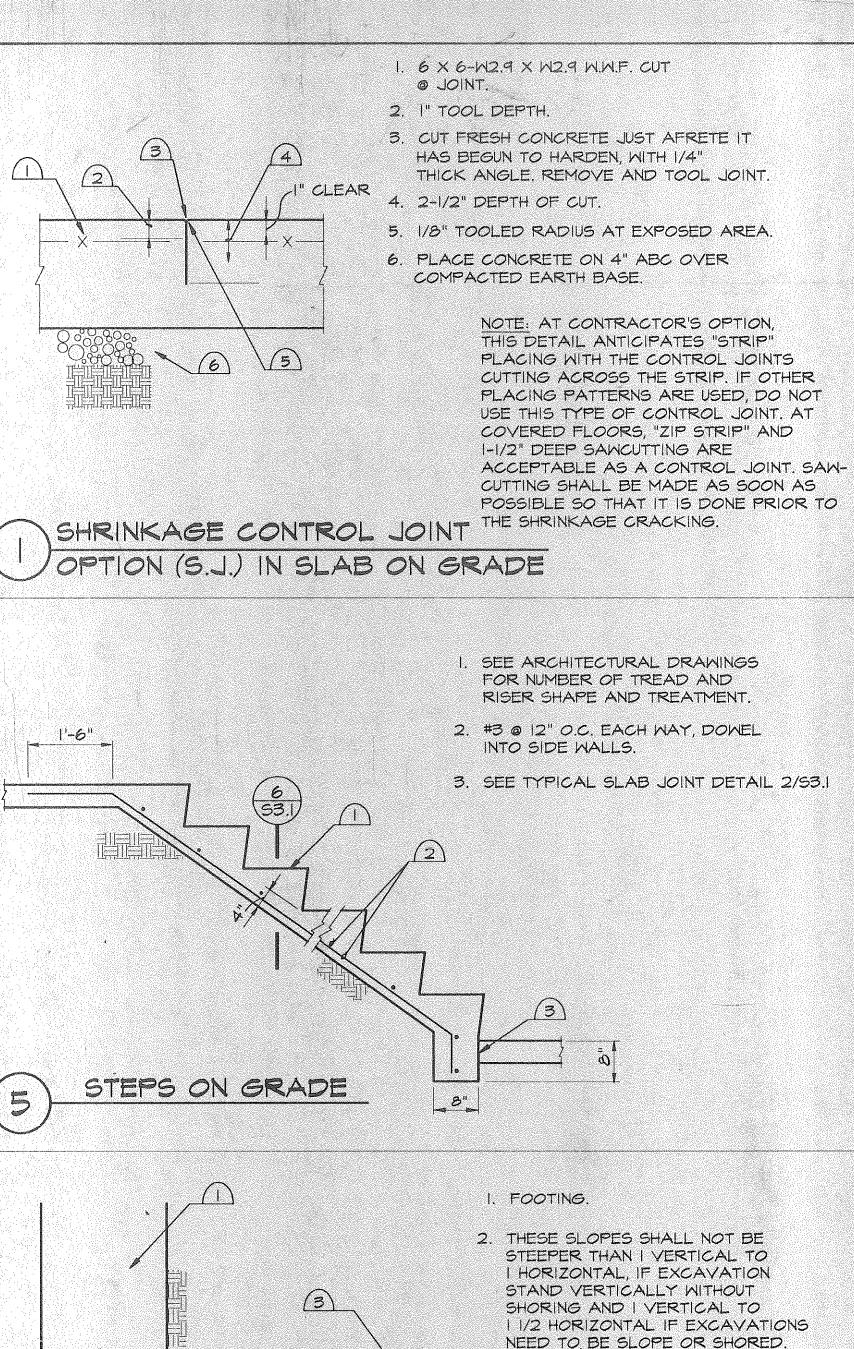
DATE 1-7-92 CITY PLAN CHECK 4-3-92

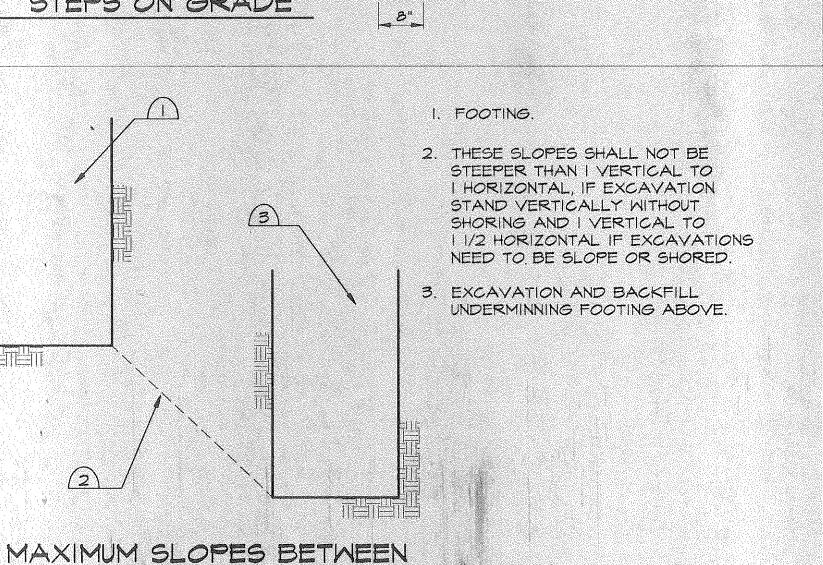
SHEET TITLE

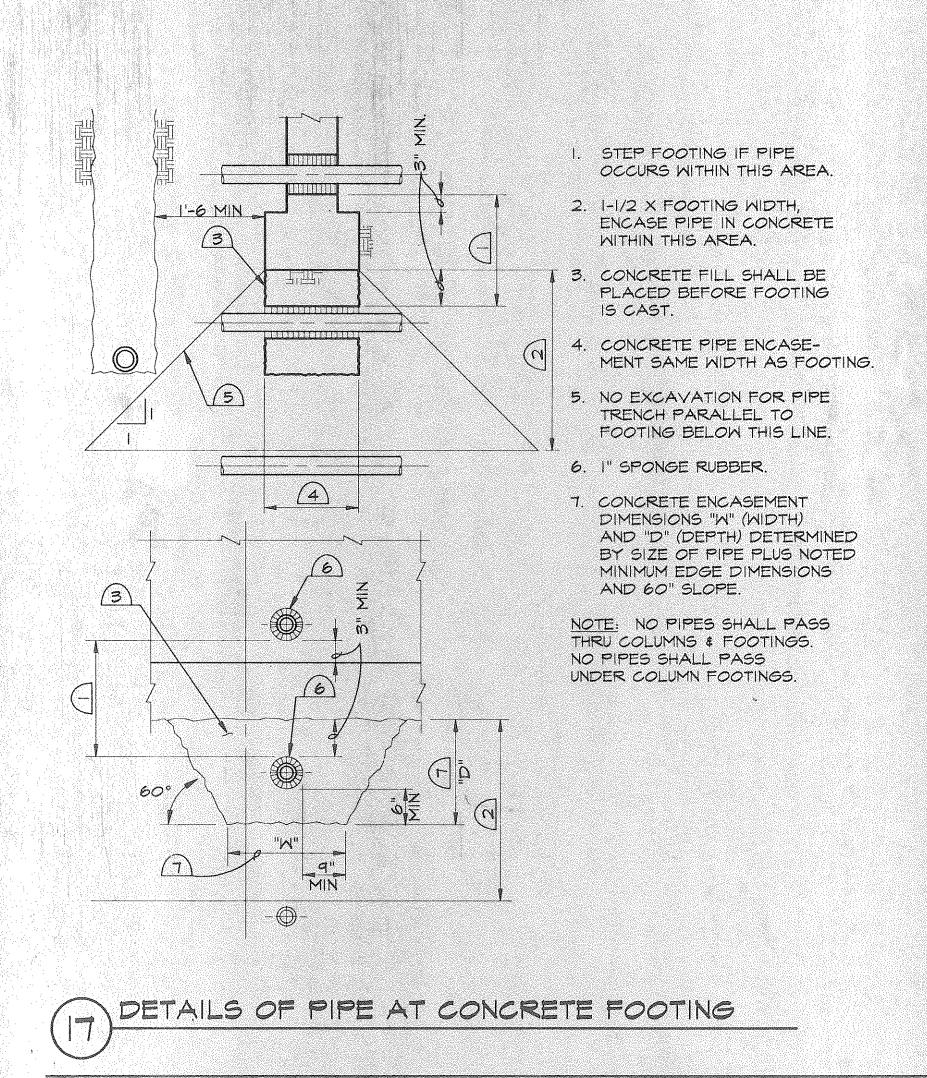
SUPPORT BUILDING FOUNDATION & FRAMING PLANS

R/DA PROJECT NO. 91006

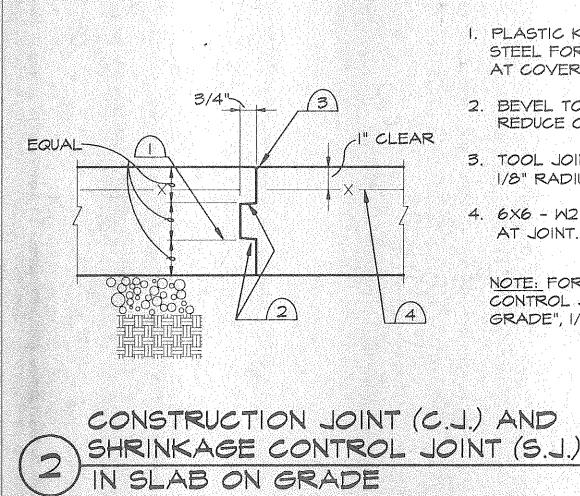
SHEET NO.







ADJACENT EXCAVATIONS



CHANGE IN SLAB ELEVATION AT

P5/16" V

#4 CONT

MASONRY WALL

SHALLOW FOOTING FOR

MASONRY NON-BEARING WALL

(3)

AT SLAB ON GRADE

2'-0"

LOW RETAINING WALL

STEEL COLUMN

I" TYP.

1 1/2" TYP.

GROUT

I. PLASTIC KEY NAILED TO WOOD FORM STEEL FORMED KEY MAY BE USED AT COVERED FLOORS. 2. BEVEL TO BE I/8" MAXIMUM TO

REDUCE CURL.

3. TOOL JOINT AT EXPOSED AREA WITH 1/8" RADIUS.

4. 6×6 - W2.9 X W2.9 W.W.F. CUT AT JOINT.

PLANS.

4. #4 DOWELS X

ENGINEER.

EACH WAY.

7. PROVIDE:

8. SEE PLAN.

5. 4-3/4" ANCHOR BOLTS

WITH HEAVY HEX HEAD.

6. DIAMOND SHAPE CLOSURE

CONCRETE, SEE PLANS.

32" ON CENTER.

NOTE: FOR OPTION, SEE "SHRINKAGE CONTROL JOINT OPTION IN SLAB ON GRADE", 1/53.1.

8" MASONRY WALLS PER

FOOTINGS AND STEM WALLS PER

12/93.1, STEP FOOTING AS

3. SOLID GROUT BELOW GRADE

5. SLAB ON A.B.C. PER PLANS.

I. SYMMETRICAL ABOUT CENTER

2. BASE PLATE 3/4" THICK FOR FOOTING

PROVIDE I" THICK BASE PLATE.

AND GEOTECHNICAL ENGINEER.

3-#5 E.W. FOR 2'-0"X2'-0"X8" FTG.

4-#5 E.W. FOR 4'-0"X4'-0"X1'-0" FTG.

11-#5 E.M. FOR 6'-0"X6'-0"X1'-6" FTG.

. DOWELS TO MATCH AND LAP MASONRY WALL REINFORCING.

2. #4 X 5'-0" @ 18", CENTER ON

4. PERMISSIBLE CONSTRUCTION

SHOWN, SEE SLAB JOINT

1. 8" CONCRETE RETAINING WALL

2. FINISH GRADE AND SIDEWALK

FENCE PER ARCHITECTURAL

PER CIVIL PLANS.

DRAWINGS.

AT BOTTOM.

#4 AT 12" O.C.

SPACING PER 13/53.6.

6. 2- #4 x CONTINUOUS, TOP.

7. 2- #4 x CONTINUOUS, FOOTING.

NOTE: PROVIDE CONSTRUCTION

JOINT AT 20 FEET ON CENTER MAX.

FOR SLAB CONSTRUCTION NOT

3. CENTER UNDER WALL.

DETAIL 2/53.1

12-#5 E.W. FOR 8'-0"X8'-0"X2'-0" FTG.

3. SEE PLAN. CENTER ON COLUMN

SIZE OF 6'-0" × 6'-0" OR GREATER

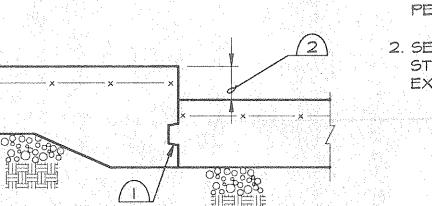
. COMPACTED FILL PER SPECIFICATIONS

6. COMPACTED BACKFILL PER

SPECS. AND GEOTECHINICAL

REQUIRED PER 7/53.1.





I. PERMISSIBLE SLAB CONSTRUCTION JOINT PER DETAIL 2/53.1.

I. PLACE ALL CONCRETE AGAINST UN-DISTURBED

DURING CONCRETE PLACING REPLACE

3. REBAR TO MATCH AND LAP WITH TYPICAL

6. SEE "DETAILS OF PIPE AT CONCRETE FTG"

7. STEP FOOTING AS REQUIRED TO DEPRESS

FOOTING TO FIRM BEARING, OR TO GET BELOW UNDERGROUND PIPING, OR WHEN-EVER CHANGE IN FOOTING ELEVATION OCCURS. SEE DETAIL "MAXIMUM SLOPES BETWEEN ADJACENT EXCAVATIONS" (DET. 9/53.1) WHICH MAY REQUIRE LOWERING OF

FOOTING ELEVATION, SPACE STEPS NO

2. SOLID GROUT MASONRY

COLUMN FULL HEIGHT.

COLUMN REINFORCING.

FOR 2'-6"X2'-6" FTG.

FOR 3'-0"X3'-0" FTG.

FOR 4'-0"X4'-0" FTG.

FOR 5'-0"X5'-0" FTG.

LINE EACH WAY.

3. DOWELS TO MATCH AND LAP

PROVIDE MIN. 3-#5 EACH WAY

PROVIDE MIN. 4-#5 EACH WAY

PROVIDE MIN. 5-#5 EACH WAY

CLOSER THAN 4'-O" CLEAR.

(DET. 17/53.1) FOR PIPE PLACEMENT CRITERIA.

DISTURBED SOIL WITH CONCRETE

2. REBAR MAY BE LAP SPLICED AT

4. I" SPONGE RUBBER AROUND PIPE

5. SLOPE AS REQUIRED FOR EARTH

CONTRACTORS OPTION.

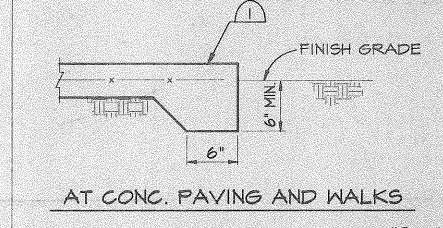
WHEN APPLICABLE.

STABILITY.

FOOTING REINFORCEMENT.

OR COMPACTED SOIL IF SOIL IS OR COMPACTED

2. SEE ARCHITECTURAL DRAWINGS FOR STEP DIMENSION. DO NOT EXCEED 8".



I. SEE TYPICAL SLAB JOINT DETAIL FOR SLAB CONSTRUCTION (DET. 2/53.1) INCLUDING REBAR IF ANY

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(602) 264-1010

(602) 264-3070

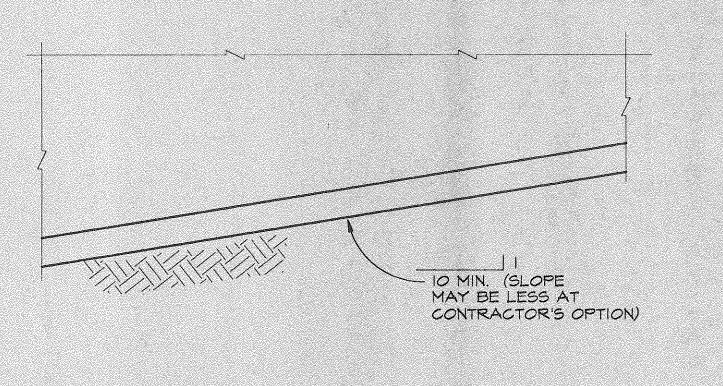
(602) 224-5571

<u>& PLUMBING</u>

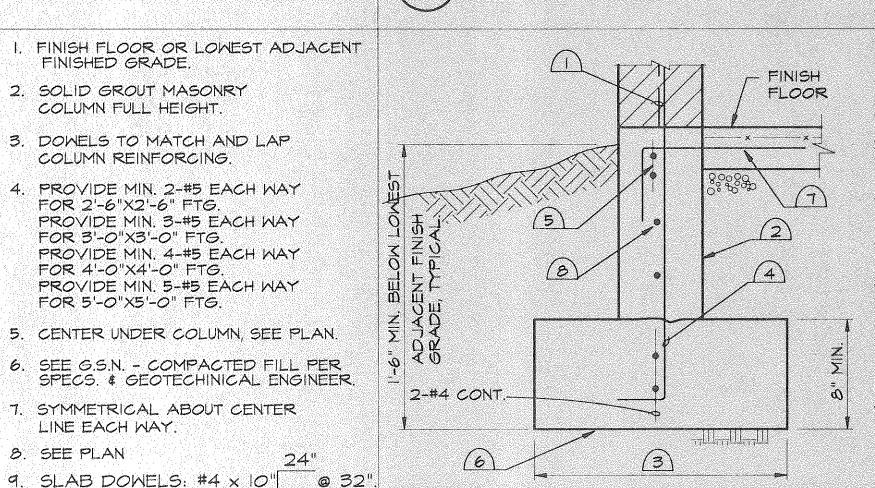
SUITE 100

FINISH GRADE

AT BLDG. SLAB EDGE



SLOPING FOOTING



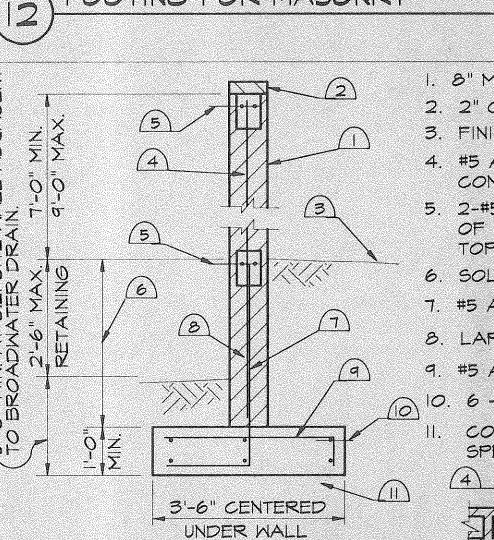
I. SEE G.S.N. FOR MASONRY WALL REINFORCING.

3. 1'-4" UNLESS NOTED OTHERWISE ON PLAN. CENTER UNDER WALL. 4. DOWELS TO MATCH AND LAP WITH WALL

5. 2-#5 IN TOP OF STEM WALL.

6. SEE G.S.N. ESTABLISH AND VERIFY FOOTING BOTTOM, MAINTAIN REQD. SLOPE BETWEEN EXCAVATIONS. FINISH GRADE IS FINISH FLOOR AT INTERIOR FOOTING. COMPACTED FILL PER SPECS. AND GEOTECHNICICAL ENGINEER.

1. SLAB DOWELS: #4 x 10" @ 32".



1. 8" MASONRY WALL PER ARCH'L. DWG. 2. 2" CAP BLOCK PER ARCH'L. DWGS.

3. FINISH GRADES PER CIVIL DRAWINGS 4. #5 AT 32" O.C. AND BOTH SIDES OF CONTROL JOINTS. 5. 2-#5 x CONT. IN BOND BEAM AT TOP OF WALL AND AT FINISH GRADE. (CUT

TOP BARS AT CONTROL JOINTS). 6. SOLID GROUT BELOW GRADE, TYPICAL 7. #5 AT 16" ON CENTER.

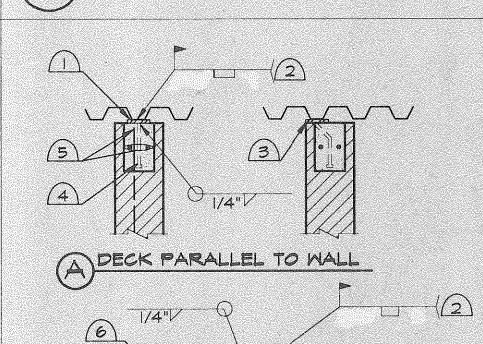
8. LAP LENGTH PER G.S.N.

9. #5 AT 16" ON CENTER AT TOP 10. 6 - #4 x CONTINUOUS.

COMPACTED FILL BELOW FOOTING PER SPEC'S. AND GEOTECHNICAL ENGINEER. - CONTROL JOINTS AT

20'-0" O.C. MAX.

(X) AT JOINT



ROOF DECK OVER

MASONRY WALL

B DECK PERPENDICULAR TO WALL

I. CONTINUOUS PLATE 1/4" X 3". LOCATE UNDER FLUTE.

2. DECK WELD TO PLATE PER GENERAL STRUCTURAL NOTES. 3. SHIFT PLATE IF REQUIRED. 4. 3/4" DIA. X 6" HEADED STUDS AT 4'-0' ON CENTER, CENTER ON PLATE.

5. SEE GENERAL STRUCTURAL NOTES.

FILL SPACE WITH MATERIAL SPECIFIED BY ARCHITECT.

ON CENTER NOT MORE THAN I'-O" FROM END OF ANGLE. MINIMUM 2 SHEET TITLE

DATE 1-7-92

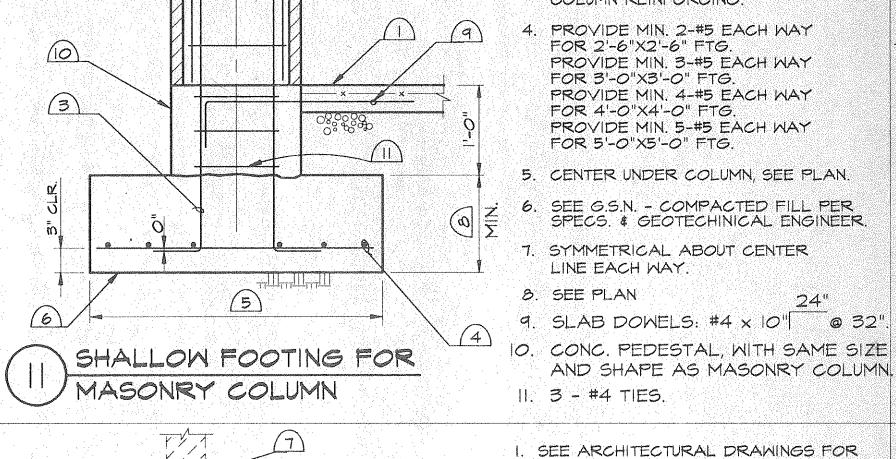
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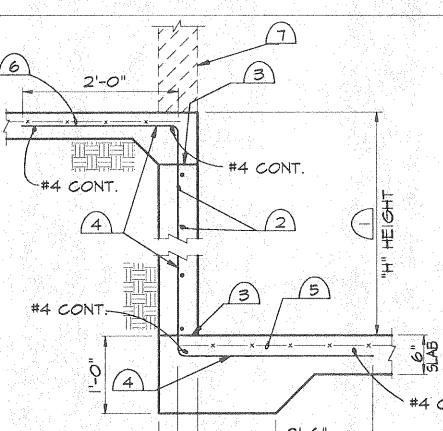
SSUED FOR

STRUCTURAL DETAILS

SHEET NO. **S3.1**

ROOF DECK CONNECTION AT MASONRY WALL





I. SEE ARCHITECTURAL DRAWINGS FOR HEIGHT DIMENSION.

2. #4 @ 12" EACH WAY, SPLICE AS REQUIRED PER GENERAL STRUCTURAL NOTES.

PERMISSIBLE CONSTRUCTION JOINTS.

4. CENTER REINFORCING IN CONCRETE AT TOP, BOTTOM AND IN WALL 5. 4 x 4-W4.0 x W4.0 W.W.F. @ MID-DEPTH

OF SLAB. 6. 6 x 6-W2.9 x W2.9 W.W.F. EXTENDED TO ADJACENT SLAB JOINT

7. MASONRY WALL AND DOWELS WHERE SHOWN ON PLAN.

NOTE: SLOPE BOTTOM OF SLAB TO DRAIN, IF DRAIN IS SHOWN ON ARCHITECTURAL DRAWINGS.

ON CENTER NOT MORE THAN I'-O'

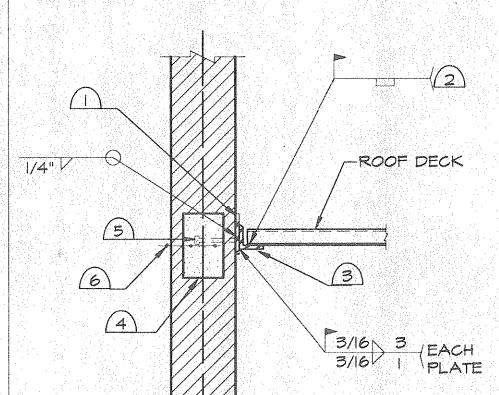
MINIMUM 2 PLATES PER ANGLE LENGTH.

FROM END OF ANGLE.

STRUCTURAL NOTES.

CENTER ON PLATE.

ITERIOR RETAINING WALL AND SLAB

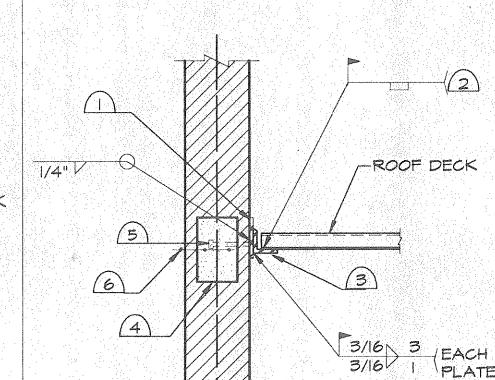


6. REINFORCING PER G.S.N., IN CONTINUOUS BOND BEAM

5. 3/4" DIA. X 5" HEADED STUD.

4. SEE GENERAL STRUCTURAL NOTES.

3/16 3 (EACH 3/16 | PLATE



. PLATE 1/4" x 5" x 0'-5" AT 32" 2. DECK END WELD PER GENERAL 3. CONTINUOUS ANGLE 3" X 3" X 1/4".

4. #4 AT 12" O.C. - ALTERNATE HOOK

2. 8" THICK CONG. SYEM WALL REINFORCING. 8. #4 x CONT. AT 8"

FOOTING FOR MASONRY

AND SHAPE AS MASONRY COLUMN.

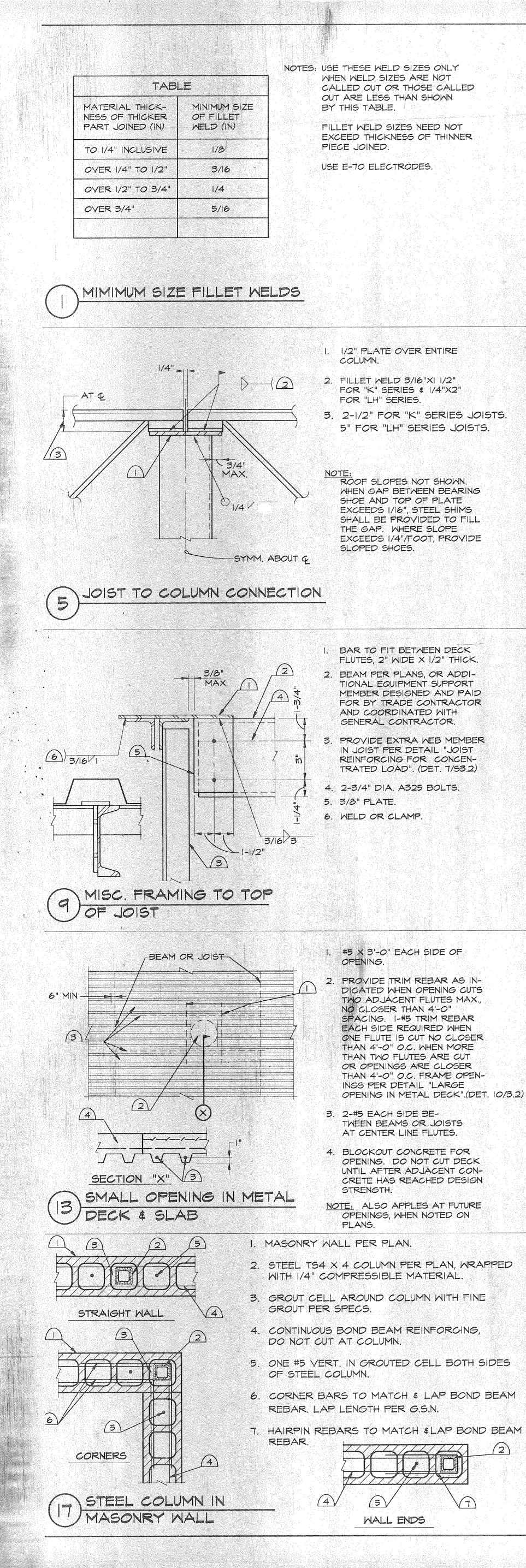
PERIMETER SITE WALL

7. CONTINUOUS L 3" X 3" X 1/4".

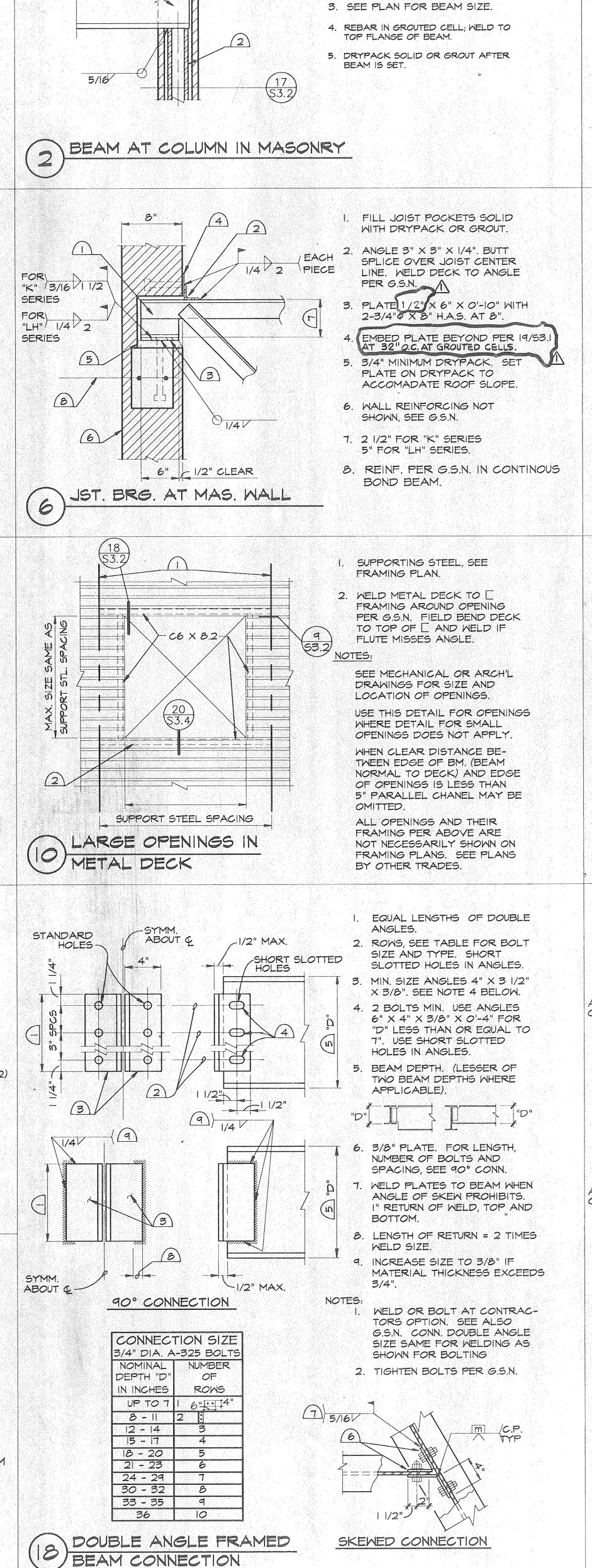
8. PLATE 1/4" X 5" X 0'-5" AT 32" PLATES PER ANGLE LENGTH.

R/DA PROJECT NO.

91006



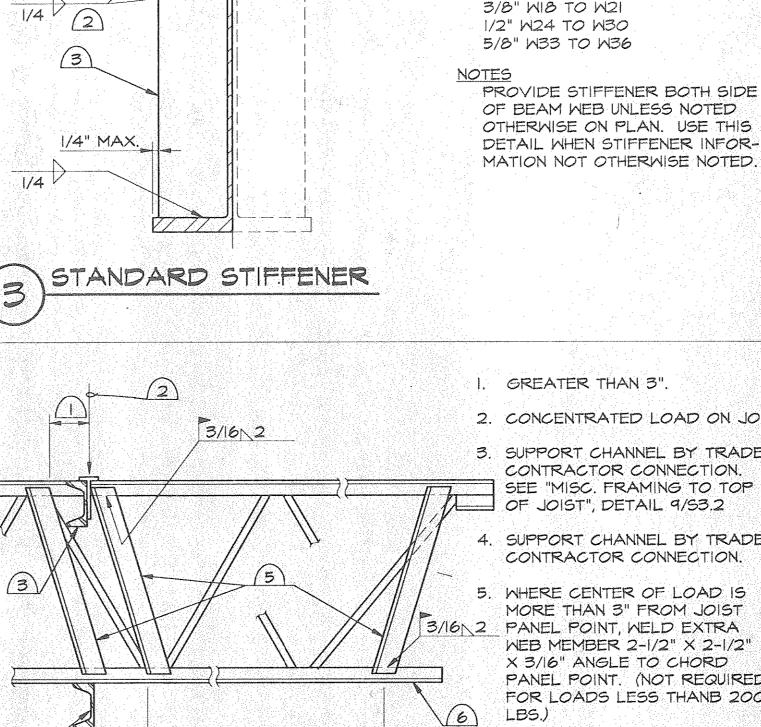
WALL ENDS



I. MASONRY WALL

WITHIN WALL.

2. TS COL. PER PLAN, CENTER



I. CENTER LINE OF BEAM OR

2. 2-6 AT WEB. CONTINUOUS AT

3. STIFFENER PLATE THICKNESS:

BACK OF CHANNEL

FLANGES.

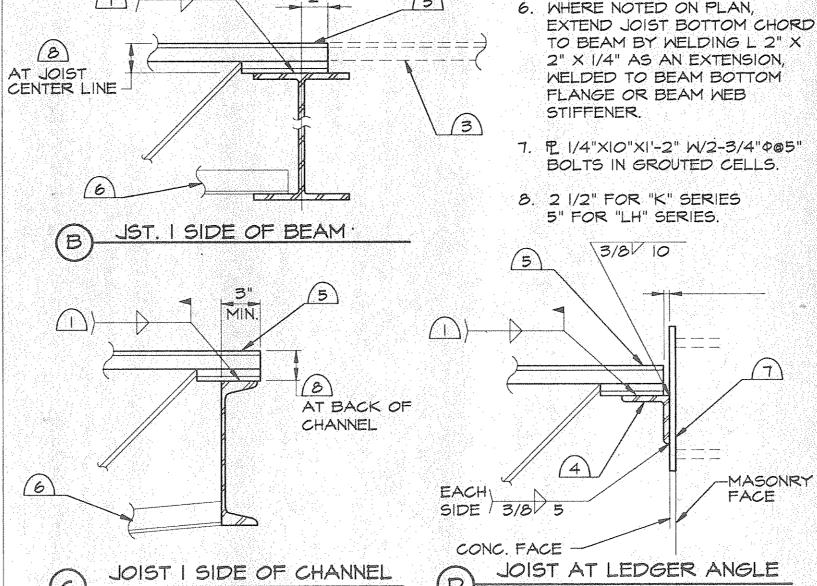
1/4" UP TO W6

5/16" W8 TO W16

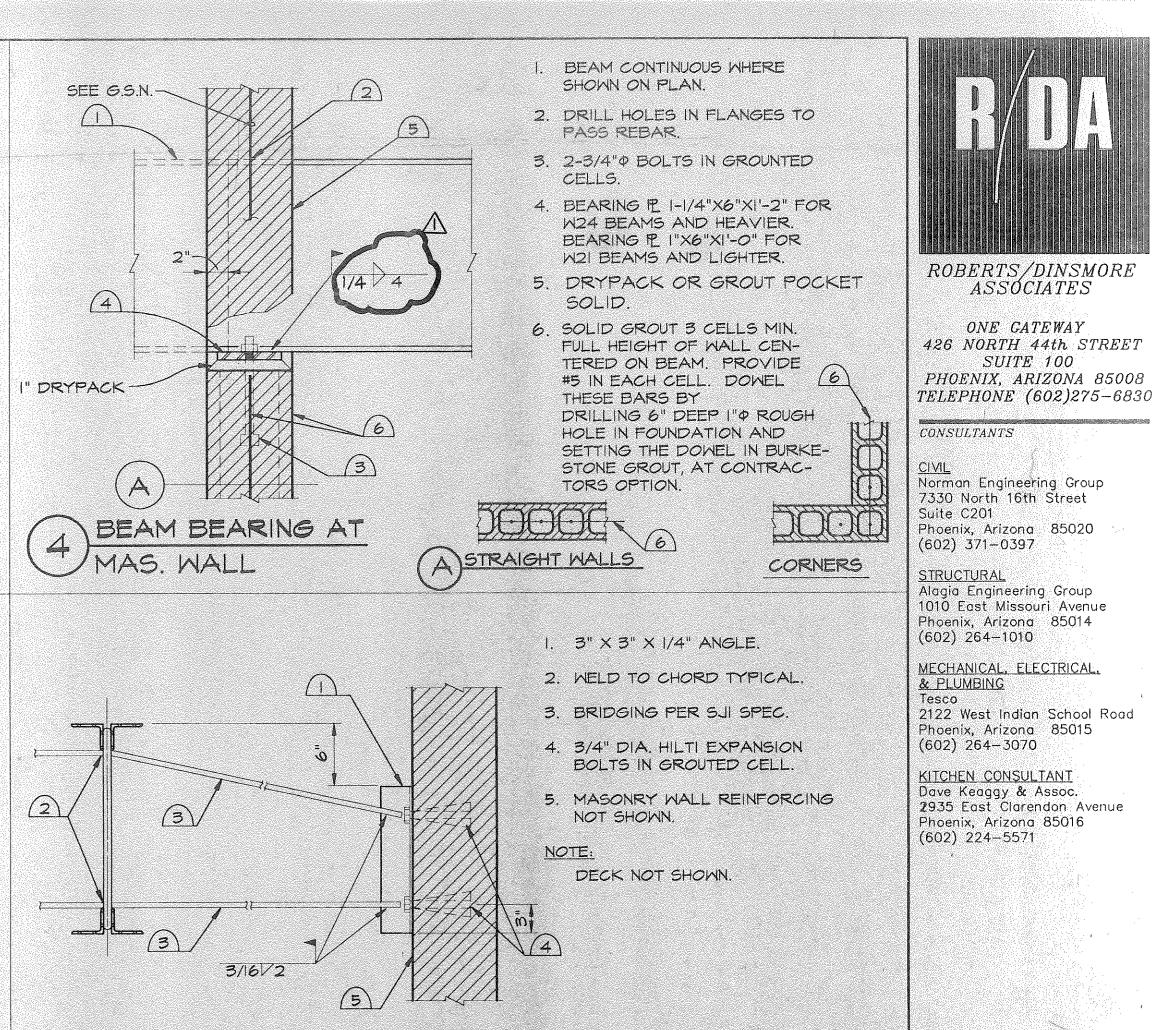
2. CONCENTRATED LOAD ON JOIST 3. SUPPORT CHANNEL BY TRADE SEE "MISC. FRAMING TO TOP SUPPORT CHANNEL BY TRADE CONTRACTOR CONNECTION. WHERE CENTER OF LOAD IS WEB MEMBER 2-1/2" X 2-1/2" PANEL POINT. (NOT REQUIRED FOR LOADS LESS THANB 200 6. JOIST EXTENSION AS REQUIRED.

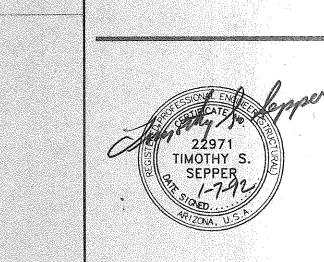
I. WELD ANGLES TO DECK IN LIEU OF SCREW AT CONTRAC-TORS OPTION. SEE 6.S.N. FOR WELDING. 2. REINFORCING ANGLE I 1/2" X 1 1/2" X 3/16" WITH #14 SCREWS TO EACH FLUTE. EXTEND ANGLE FOR TWO FLUTES EACH SIDE OF OPENING. PLACE ANGLES BENEATH DECK. REINFORCING ANGLES NOT RE-QUIRED AT OPENING LESS THAN 6" OR WHEN ONE DECK FLUTE IS CUT. USE AT OPENINGS UP TO 12" WIDE WHEN NO MORE THAN TWO DECK FLUTES HAVE BEEN CUT. DECK SHALL BE CONTI-NUOUS OVER MINIMUM ON AD-JACENT SPAN. 12" MAX. 1'-4" MIN. FOR LARGE OPENINGS IN SMALL OPENINGS IN METAL DECK SEE DETAIL 10/53.2. METAL ROOF DECK

FILLET WELD 3/16" X 1 1/2" SYMM. ABOUT FOR "K" SERIES \$ 1/4" X 2" **PEXCEPT** AS NOTED FOR "LH" SERIES. PLATE 1/4" X | 1/2" X 0'-2" REQUIRED WHEN BEAM FLANGE IS LESS THAN 5 1/2" WIDE. 3. TOP CHORD EXTENSION WHERE AT JOIST APPLICABLE, SEE PLANS. CENTER LINE-4. LEDGER ANGLE 5"X5"X5/8"XIO" 5. ROOF SLOPES NOT SHOWN. WHEN GAP BETWEEN BEARING SHOE AND TOP OF BEAM EX-CEEDS 1/16", STEEL SHIMS SHALL BE PROVIDED TO FILL THE GAP. WHERE ROOF SLOPE EXCEEDS 1/4"/FOOT, PROVIDE SLOPED SHOES. 6. WHERE NOTED ON PLAN, 2" X 1/4" AS AN EXTENSION, WELDED TO BEAM BOTTOM FLANGE OR BEAM WEB STIFFENER.



JOISTS AT BEAMS





ASSÓCIATES

ONE GATEWAY

SUITE 100

THROUGH JOINT BY LAYING 4'-0" WIDE X CONTINUOUS SPLICE PIECE ON DECK, CEN-TERED ON JOINT, AND DRAP-ING UP TO TIE TO TYPICAL REINFORCING. 2. SEE 6.5.N.

PER BEAM.

3. SEE FRAMING PLAN NOTES 4. 3/4"Φ X 4" H.A.S. SPACED EQUALLY ALONG BEAM, SEE PLANS FOR NUMBER REQUIRED

PERMISSIBLE CONSTRUCTION

BETWEEN BEAMS. RUN W.W.F

JOINT IN SLAB!

LOCATE HALFWAY

5. WHERE DECK IS SPLICED AT BEAM, PROVIDE I 3/4" MIN. BEARING EACH DECK PIECE (MAX. 1/2" GAP ALLOWED).

METAL DECK TO COMPOSITE

HORIZONTAL BRIDGING AT

— € BEAM

MASONRY WALL

A DECK CONT. OVER BEAM

I" CLEAR AT

BEAM 4

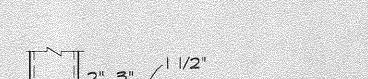
--||----|/2"

1. 3/8" CONNECTION PLATE THRU SLOT IN COLUMN.

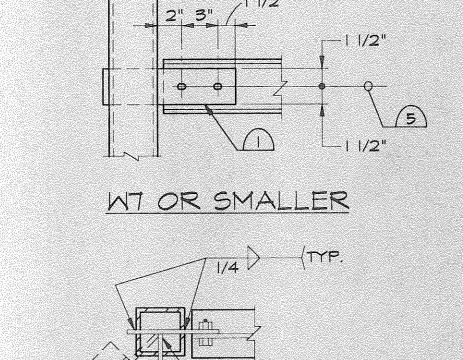
2. MAXIMUM NUMBER OF I" DIA. A325 BOLTS AT 3" O.C., SHORT SLOTTED HOLES. 3. COLUMN SPLICE LOCATION WHEN MORE THAN ONE BEAM FRAMING INTO COLUMN AT DIFFERENT ANGLES, SEE PLAN "BEAMS AT ANGLE" BELOW.

4. 1/2" PLATE.

5. 2-1" DIA. A325 BOLTS IN SHORT SLOTTED HOLES.



W8 OR LARGER BEAMS



BEAMS IN-LINE

(20) BEAM TO TS COLUMN

BEAMS AT ANGLE

CITY PLAN CHECK 4-3-92 SHEET TITLE

STRUCTURAL DETAILS

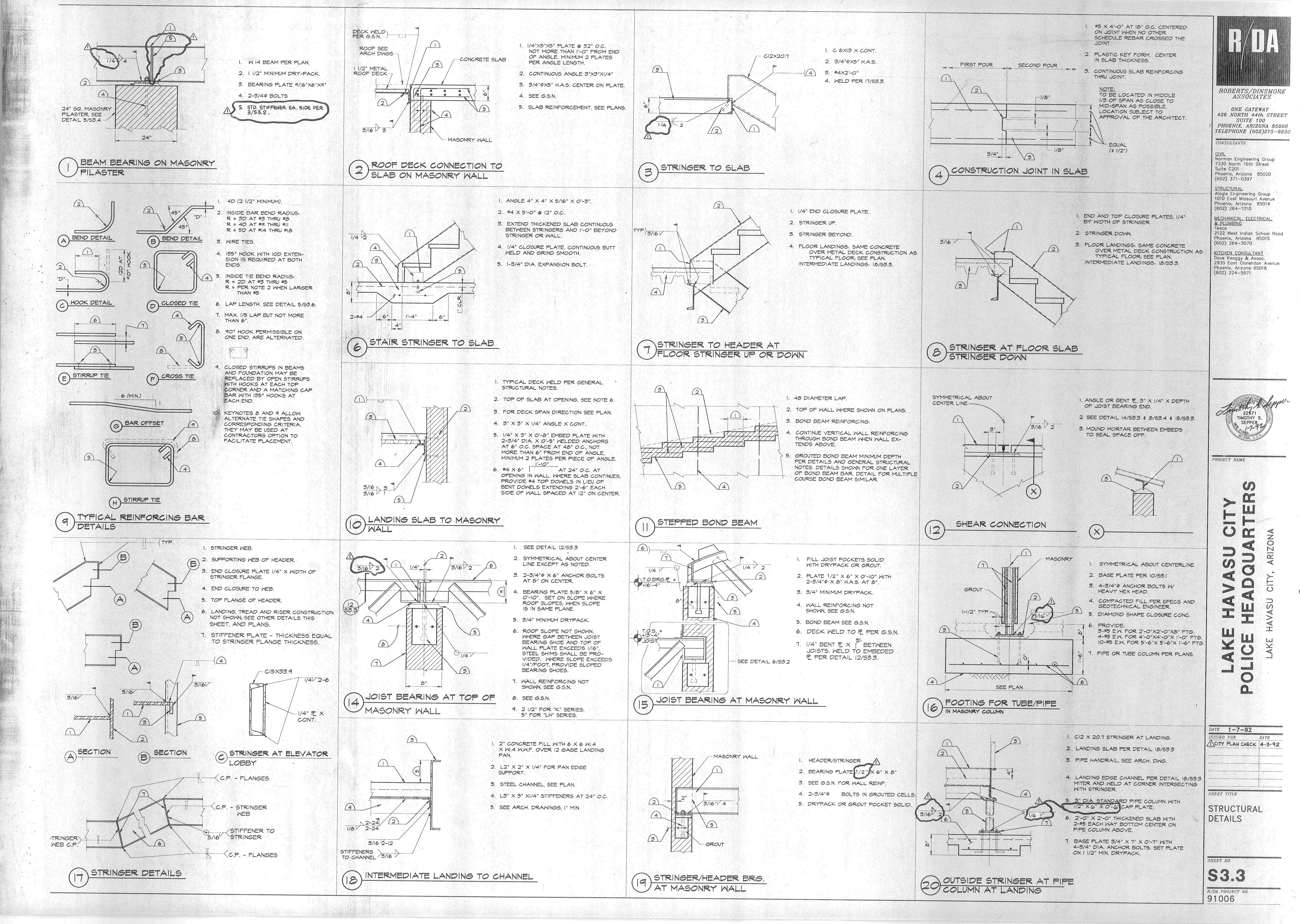
> S3.2 R/DA PROJECT NO.

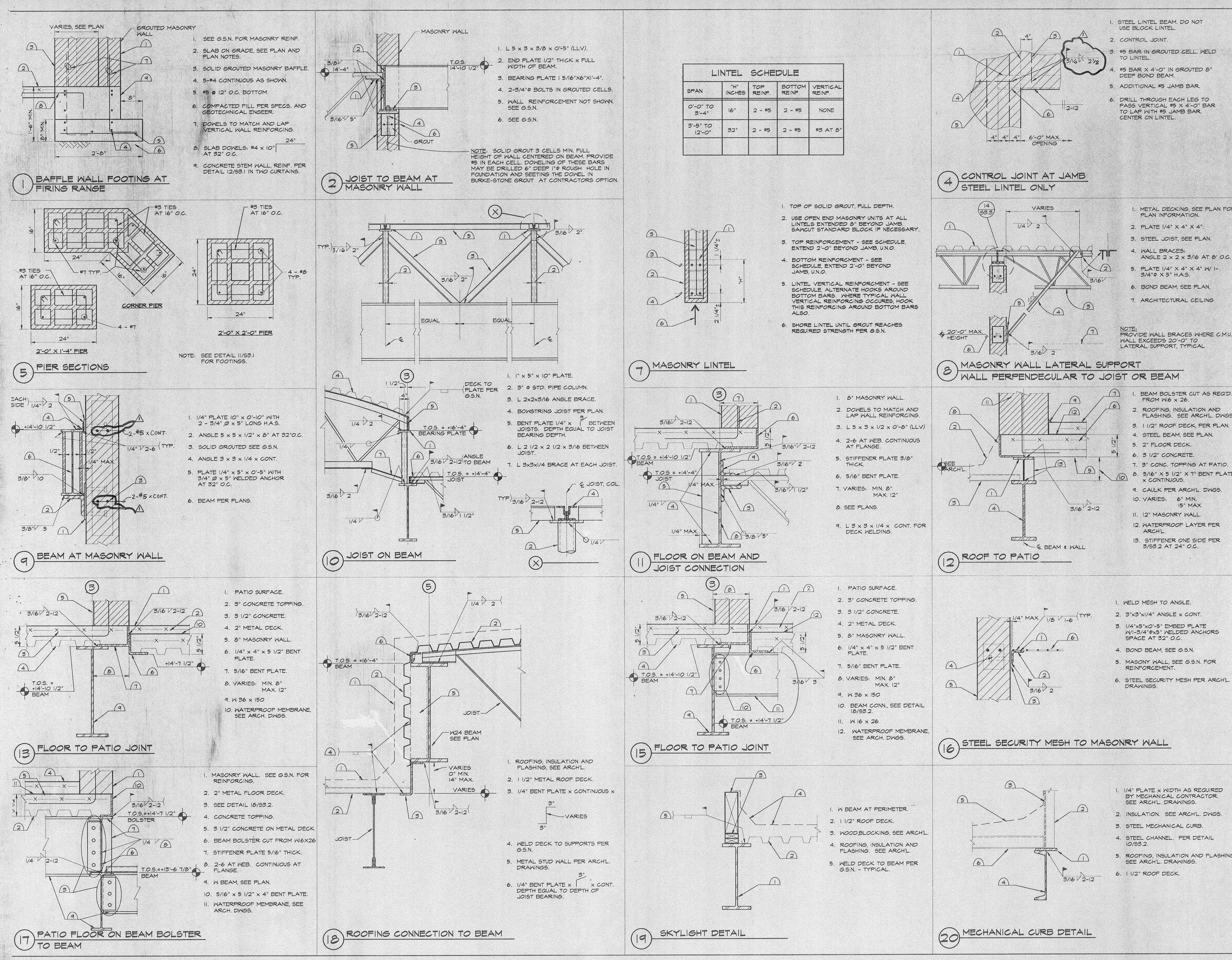
SHEET NO.

DATE 1-7-92

SSUED FOR

91006





I. STEEL LINTEL BEAM, DO NOT USE BLOCK LINTEL. 2. CONTROL JOINT. #5 BAR IN GROUTED CELL. WELD #5 BAR X 4'-O" IN GROUTED 8" DEEP BOND BEAM.

> ASSOCIATES ONE GATEWAY 426 NORTH 44th STREET SUITE 100 PHOENIX, ARIZONA 85008 TELEPHONE (602)275-6830

ROBERTS/DINSMORE

| <u>CIVIL</u> | Norman Engineering Group 7330 North 16th Street Suite C201 Phoenix, Arizona 85020

CONSULTANTS

(602) 371-0397 <u>STRUCTURAL</u> | Alagia Engineering Group 1010 East Missouri Avenue I. METAL DECKING, SEE PLAN FOR Phoenix, Arizona 85014

(602) 264-1010 MECHANICAL, ELECTRICAL & PLUMBING 2122 West Indian School Road Phoenix, Arizona 85015 (602) 264-3070

ANGLE 2 x 2 x 3/16 AT 8' O.C. <u>(ITCHEN CONSULTAN)</u> Dave Keaqqy & Assoc. 5. PLATE 1/4" X 4" X 4" W/ I-2935 East Clarendon Avenue 3/4" \$ X 5" H.A.S. Phoenix, Arizona 85016 (602) 224-5571 6. BOND BEAM, SEE PLAN.

FROM WI6 \times 26. 2. ROOFING, INSULATION AND FLASHING. SEE ARCH'L. DWGS. 3. 11/2" ROOF DECK, PER PLAN. 4. STEEL BEAM, SEE PLAN. 5. 2" FLOOR DECK. 6. 3 1/2" CONCRETE. 7. 3" CONC. TOPPING AT PATIO. 8. 5/16" X 5 1/2" X 7" BENT PLATE X CONTINUOUS. ROJECT NAME

9. CAULK PER ARCH'L. DWGS. IO. VARIES: 6" MIN. 15" MAX. II. 12" MASONRY WALL

12. WATERPROOF LAYER PER ARCH'L. 13. STIFFENER ONE SIDE PER 3/93.2 AT 24" O.C.

I. WELD MESH TO ANGLE. 2. 3"x3"x1/4" ANGLE x CONT. 3. 1/4"x5"x0'-5" EMBED PLATE

> W/1-3/4"Px5" WELDED ANCHORS SPACE AT 32" O.C.

4. BOND BEAM, SEE G.S.N. 5. MASONY WALL, SEE G.S.N. FOR REINFORCEMENT.

6. STEEL SECURITY MESH PER ARCH'L DRAWINGS.

STEEL SECURITY MESH TO MASONRY WALL

1. 1/4" PLATE x WIDTH AS REQUIRED BY MECHANICAL CONTRACTOR. SEE ARCH'L. DRAWINGS. 2. INSULATION. SEE ARCH'L. DWGS.

3. STEEL MECHANICAL CURB. 4. STEEL CHANNEL. PER DETAIL

5. ROOFING, INSULATION AND FLASHING. SEE ARCH'L. DRAWINGS.

6. 11/2" ROOF DECK.

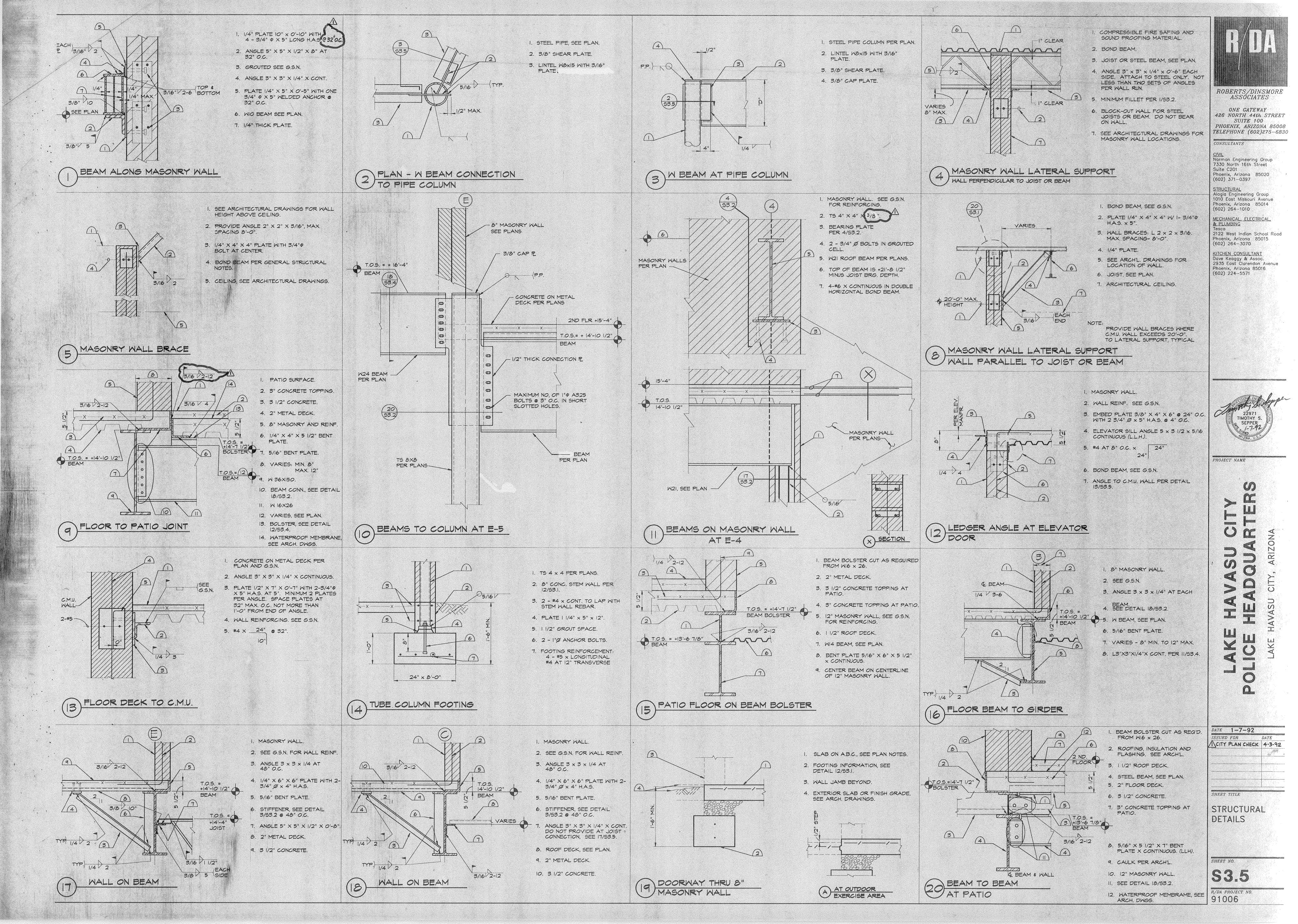
DATE 1-7-92 ISSUED FOR ACITY PLAN CHECK 4-3-92 SHEET TITLE STRUCTURAL

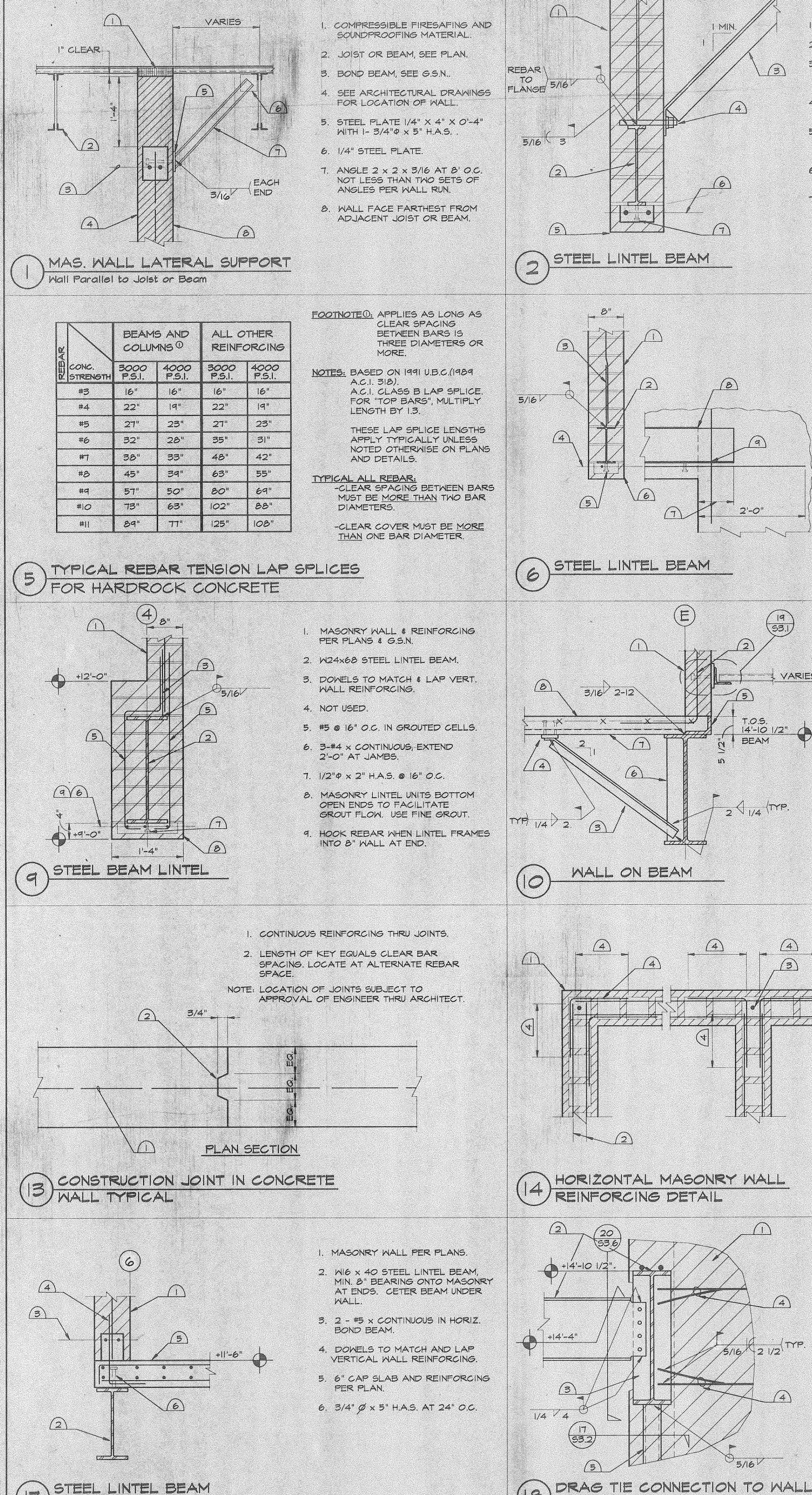
DETAILS

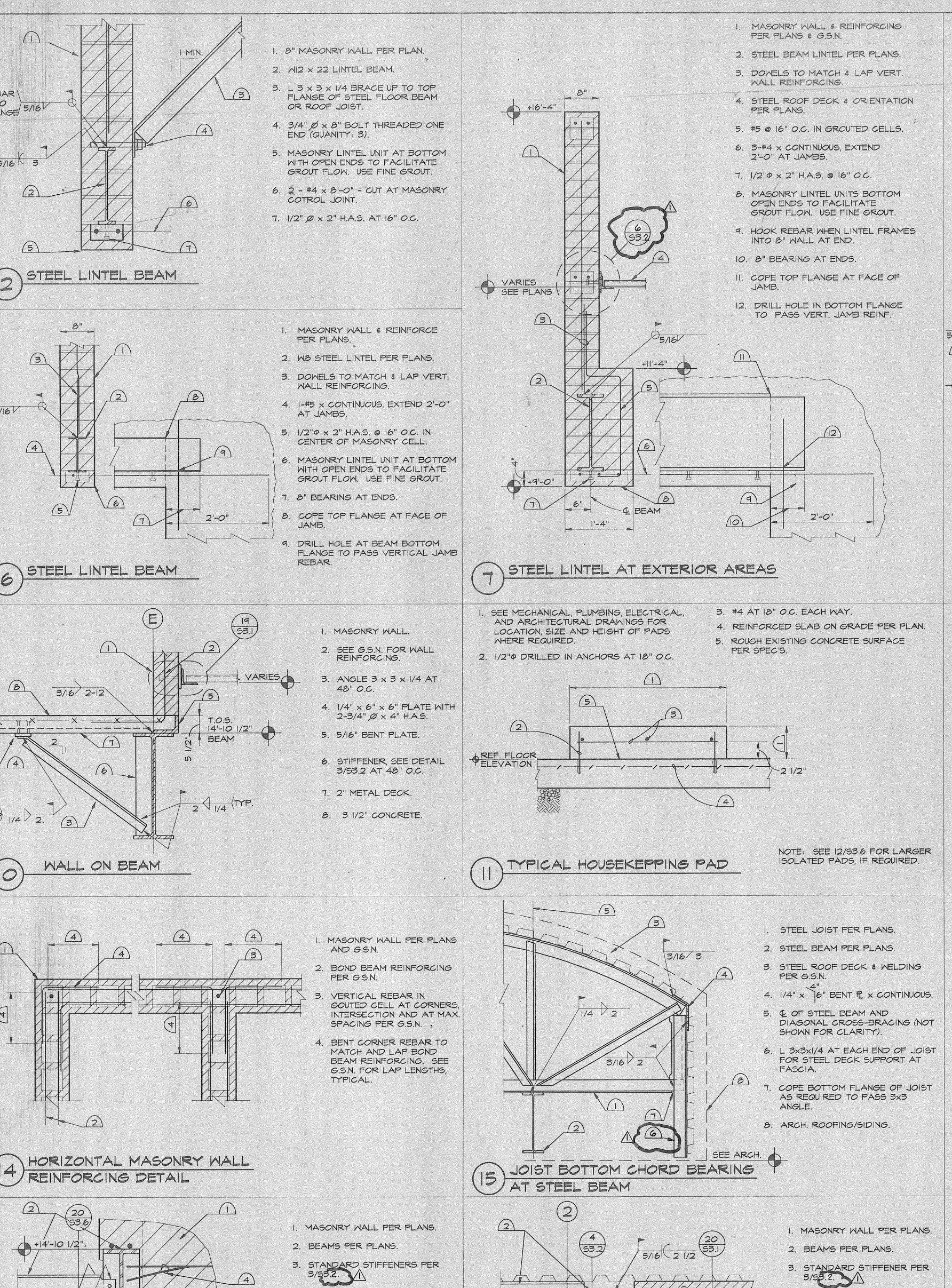
S3.4

R/DA PROJECT NO. 91006

SHEET NO.





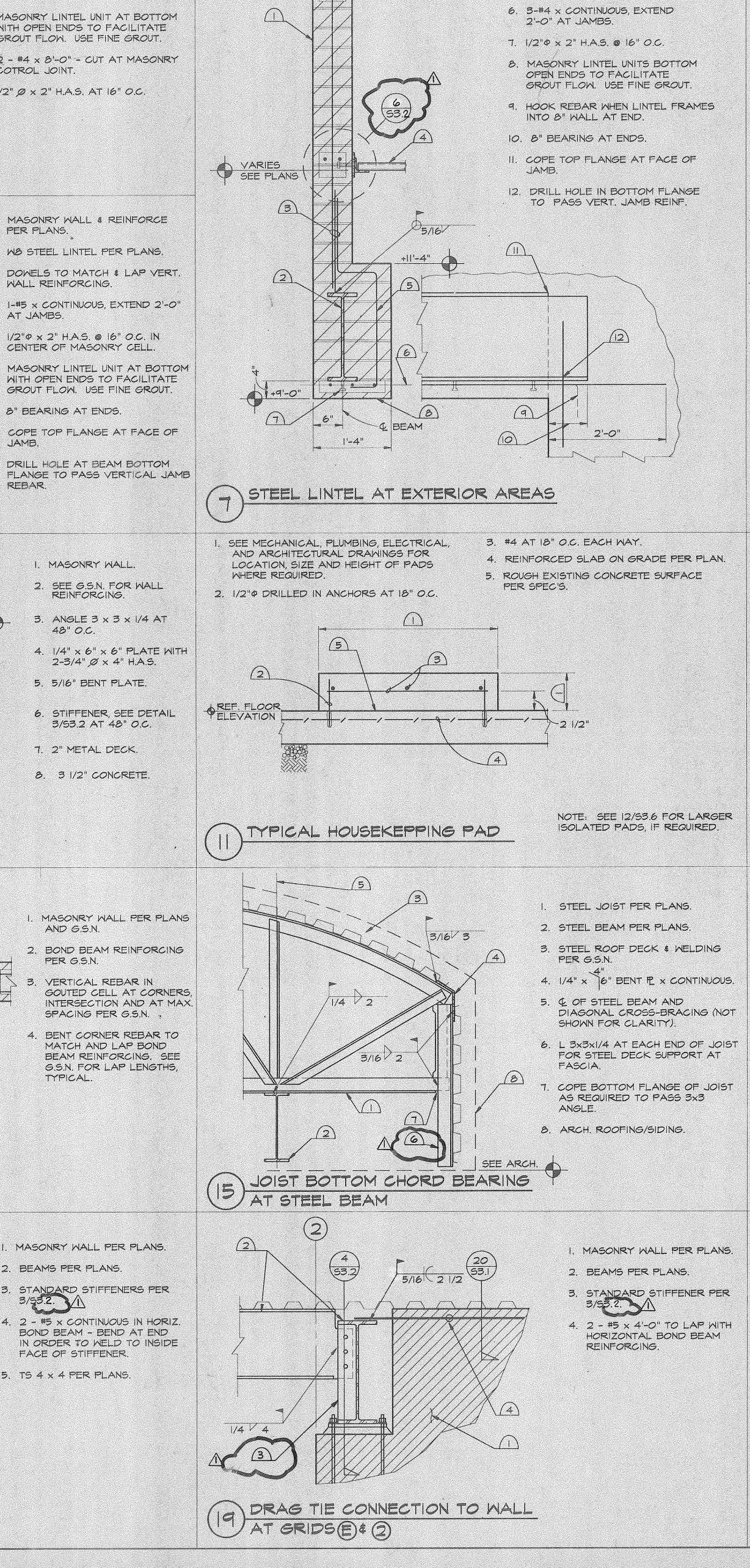


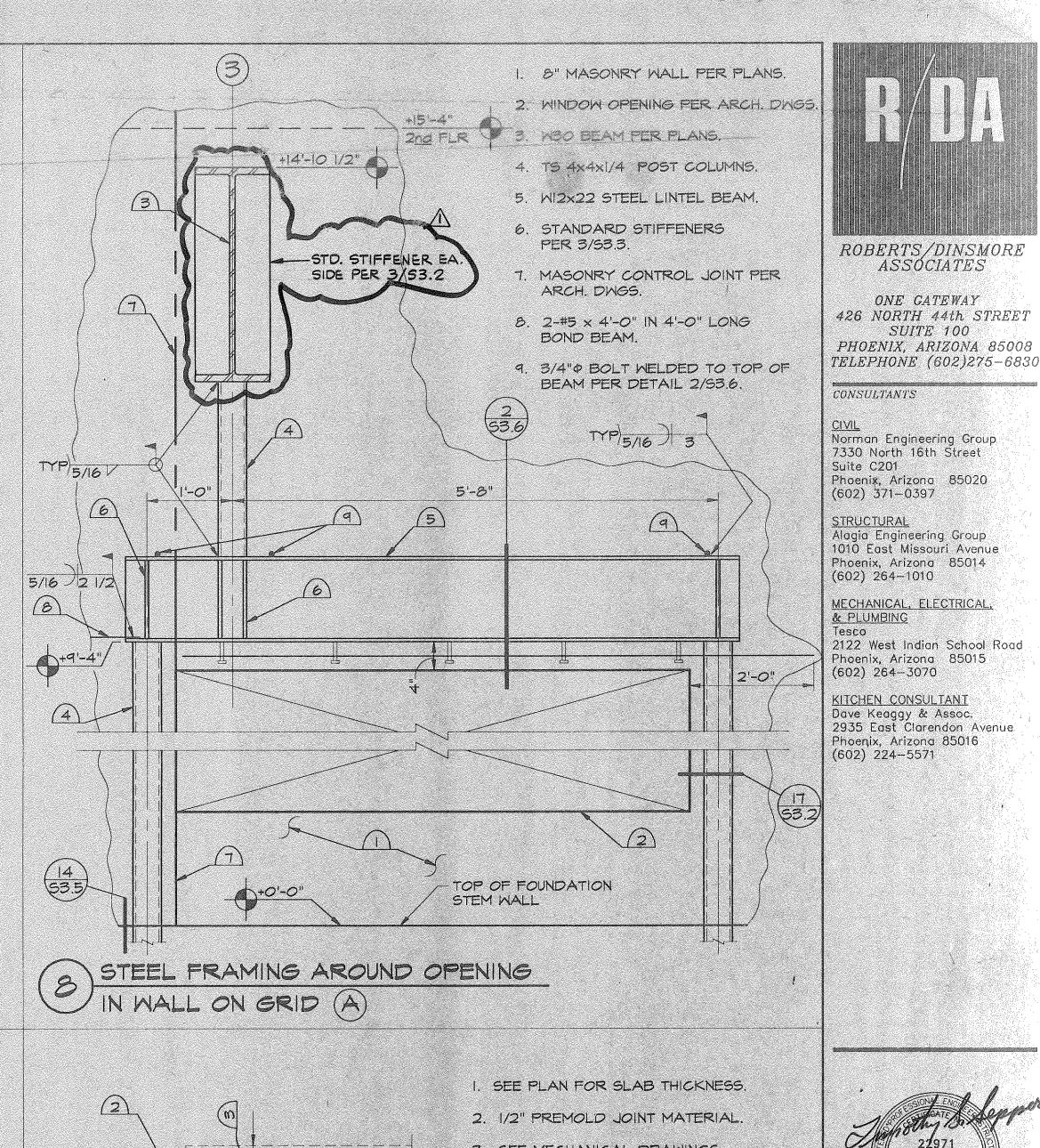
FACE OF STIFFENER.

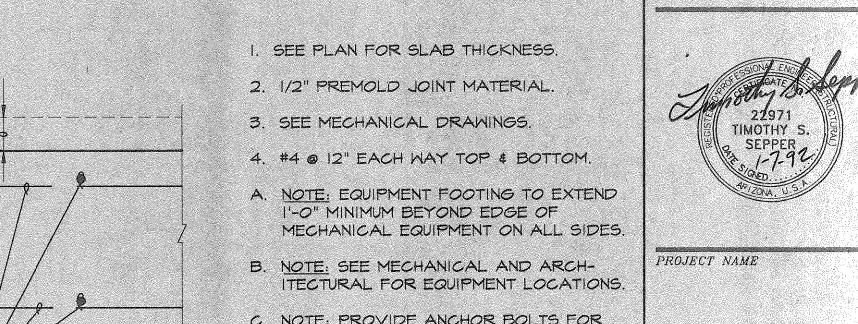
5. TS 4 x 4 PER PLANS.

(17) (53.2)

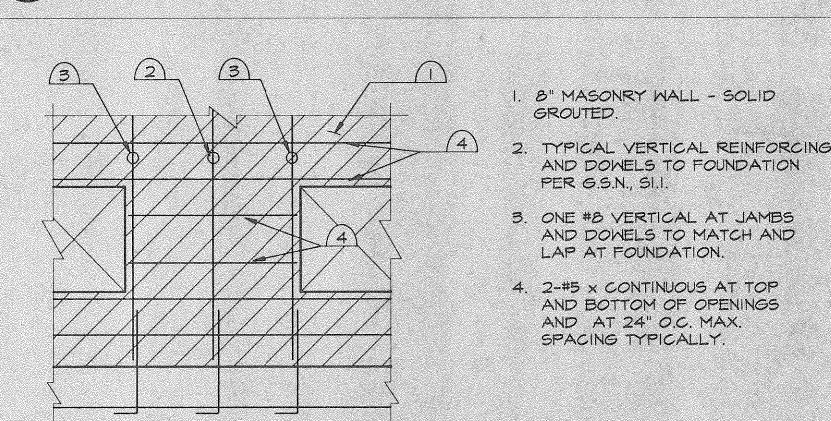
AT GRIDS (3)







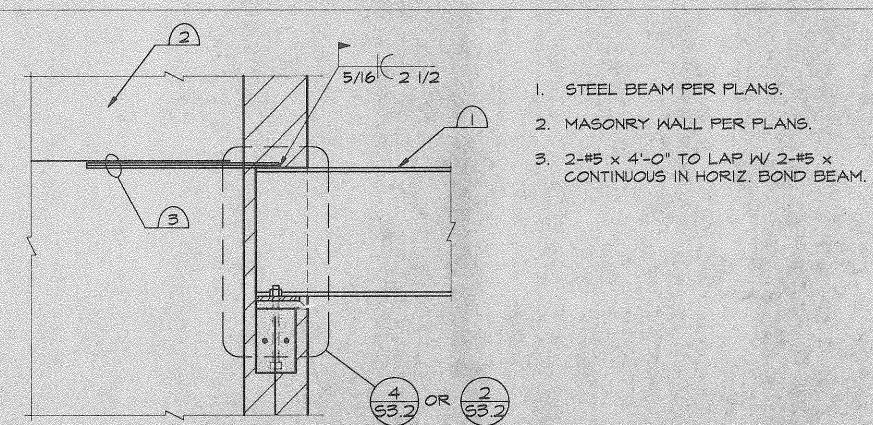
C. NOTE: PROVIDE ANCHOR BOLTS FOR EQUIPMENT AS REQUIRED BY MANU-FACTURER.



DEEP EQUIPMENT PAD

/--/ ---

COURTYARD WALLS AT GRIDS @ & E



20 STEEL BEAM DRAG TIE TO MASONRY WALL



ASSÓCIATES

ONE GATEWAY

SUITE 100

DATE 1-7-92 SSUED FOR MCITY PLAN CHECK 4-3-92

SHEET TITLE

STRUCTURAL DETAILS

SHEET NO. S3.6