

GENERAL STRUCTURAL NOTES

GENERAL:

- 1. GENERAL SPECIFICATIONS: MIAMI-DADE AVIATION DEPARTMENT DIVISION 1 AND COMMISSIONING STANDARD TECHNICAL SPECIFICATIONS, MARCH 2010 EDITION.
OPERATIONAL DIRECTIVE NO. 21-03: REQUIREMENTS, SAFETY PROTOCOLS AND PRECAUTIONS FOR WORK PERFORMED ON OR NEAR THE AUTOMATED PEOPLE MOVER SYSTEMS AT MIAMI INTERNATIONAL AIRPORT.
MDAD AND FOOT STANDARD TECHNICAL SPECIFICATIONS.
- 2. THE SCOPE OF THE BRIDGE REHABILITATION INCLUDES REPLACING BEARINGS UNDER THE GUIDEWAY STEEL BEAMS, CONCRETE DECK AND SUBSTRUCTURE SPALL AND DELAMINATION REPAIRS, CONCRETE DECK CRACK REPAIR, AND EXPANSION JOINT REPAIR. JACKING OF THE STRUCTURES FOR BEARING REPLACEMENT AND RELATED WORK TO GAIN ACCESS TO EXISTING STRUCTURES ARE INCLUDED IN THE SCOPE. ADJUSTMENT, REPAIR, OR REPLACEMENT OF JOINTS, CONCRETE OR STEEL COMPONENTS ON THE EXISTING BRIDGE OR BUILDING STRUCTURES IN ORDER TO PERFORM THE BRIDGE REHABILITATION WORK ARE INCLUDED IN THE SCOPE. UNLESS NOTED ON THE PLANS, PAINTING OF THE EXISTING STEEL STRUCTURE IS NOT PART OF THE SCOPE.
- 3. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.
- 4. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
- 5. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL PERFORM A SURVEY OF THE BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE AND IDENTIFY ALL LOCATIONS IN NEED OF REPAIR. THE SURVEY SHALL BE INCLUDED IN CONTRACT DURATION AND PERFORMED IN THE PRESENCE OF THE ENGINEER PRIOR TO COMMENCING ANY WORK. VERIFY ALL BRIDGE CONDITIONS AND DIMENSIONS AT THE JOB SITE AND AS SHOWN ON THE DRAWINGS. THEY SHALL REPORT ANY ERRORS OR INCONSISTENCIES IN THE ABOVE TO THE ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
- 6. PROTECTION:
 - A. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE SOUTH FLORIDA BUILDING CODE AND ALL LOCAL, STATE AND FEDERAL LAWS. THE ENGINEER AND HIS EMPLOYEES ARE NOT RESPONSIBLE FOR SAFETY PROCEDURES ON THIS PROJECT. THIS IS THE CONTRACTOR'S RESPONSIBILITY.
 - B. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK. REMOVE FROM SITE WHEN THE WORK IS COMPLETED.
 - C. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.
 - D. AT ALL TIMES PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR HEAT) SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM DAMAGE.
 - E. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, ROOFS, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY OR TO ANY PUBLIC UTILITIES.
 - F. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.
- 7. CONTRACTOR AGREES THAT HE WILL HOLD OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS HARMLESS FROM ANY AND ALL DAMAGE AND CLAIMS WHICH MAY ARISE BY REASON OF ANY NEGLIGENCE ON PART OF CONTRACTOR, ANY OF HIS SUBCONTRACTORS AND/OR SUBCONTRACTORS, MATERIALS AND EQUIPMENT SUPPLIERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, IN PERFORMANCE OF THIS CONTRACT AND, IN CASE ANY ACTION IS BROUGHT THEREFORE AGAINST OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DEFENSE THEREOF, AND UPON HIS FAILURE TO DO SO ON PROPER NOTICE, OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS RESERVE THE RIGHT TO DEFEND SUCH ACTION AND CHARGE ALL COSTS THEREOF TO CONTRACTOR.
- 8. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH OMISSIONS OR ERRORS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.
- 9. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH FIELD SURVEY RESULTS AND AS-BUILT DRAWINGS TO LOCATE STRUCTURAL OR NON-STRUCTURAL COMPONENTS, SUCH AS DIMENSIONS, IN THE PROJECT. POTENTIAL CONFLICTS SHALL BE TRANSMITTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 10. SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW AND APPROVAL BEFORE STARTING ANY FABRICATION AND RELATED CONSTRUCTION WORK.
- 11. NO SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.
- 12. VERIFICATION OF EXISTING CONDITIONS: AS THE REMODELING AND/OR REHABILITATION OF AN EXISTING STRUCTURE REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL AND POSSIBLE INAPPROPRIATE AND/OR UNJUSTIFIABLE SUMS OF MONEY, OR DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE BUILDING, EXPOSING THE BUILDING INTERIOR TO THE ELEMENTS, AND/OR DISRUPTING AIRPORT OPERATIONS. THEREFORE, THE ENGINEER HEREIN MAKES IT CLEAR THAT NOT HAVING VERIFIED CERTAIN CONDITIONS, OR HAVING MADE CALCULATED ASSUMPTIONS, IS NOT AN ACT OF NEGLIGENCE, IRRESPONSIBILITY, OR AN ATTEMPT TO TRANSFER RESPONSIBILITY TO THE CONTRACTOR. IT IS, INSTEAD, OUR BEST EFFORT AT DESCRIBING THE EXISTING CONDITIONS AND HOW TO ADDRESS THEM, AND THIS IS OUR NOTICE TO THE CONTRACTOR TO PRICE HIS WORK IN SUCH A MANNER AS TO ASSUME POSSIBLE IRREGULARITIES AND TO LOWER THE COST OF DEALING WITH SAME WITHOUT ADDITIONAL COST TO OWNER, WHEN DIFFERENT TO THAT SHOWN. IN SUCH CASE(S), THE ENGINEER REMAINS AVAILABLE TO WORK OUT ALTERNATES, IF DEEMED NECESSARY AND APPROPRIATE (AT THE SOLE DISCRETION OF THE ENGINEER), FOR AN ACCEPTABLE ALTERNATE DETAIL OR OTHER ADDRESSING OF A CONDITION. THE ABOVE PROCEDURE IS OPINED TO BE A NECESSARY APPROACH TO SUCH SITUATIONS TO MINIMIZE INCONSISTENCIES IN BID AMOUNTS, ENCOURAGE CONTRACTOR SITE VISITS AND CLARIFICATIONS PRIOR TO BIDDING, AND AS AN ATTEMPT TO BE AS FAIR TO ALL CONTRACTORS BIDDING ON PROJECT, AS POSSIBLE, GIVEN THE CIRCUMSTANCES.
- 13. WHERE CRITICAL DIMENSIONS CANNOT BE DETERMINED FROM THE PLANS, OR WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, OR WHERE ONE MATERIAL ADJOINS AN IN-PLACE MATERIAL, CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED TO COMPLETE SHOP DRAWINGS AND INSTALLATION. REPORT ANY DISCREPANCIES EXCEEDING 3% BETWEEN FIELD MEASURED DIMENSIONS AND SCALED DRAWING DIMENSIONS TO ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS OR DELAY IF CRITICAL DIMENSIONS ARE NOT VERIFIED WITH THE DIMENSIONS MEASURED IN THE FIELD AND TIMELY INFORMING THE ENGINEER FOR DISCREPANCIES. THE CRITICAL DIMENSIONS INCLUDE BUT ARE NOT LIMITED TO EXISTING BEARING HEIGHTS AND COMPONENT DIMENSIONS AND LOCATIONS, LONGITUDINAL SLOPES OF THE GUIDEWAY STRUCTURES AT SUPPORTS, EXISTING CAP AND COLUMN SIZES AND REINFORCING LOCATIONS, EXPANSION JOINT OPENING DIMENSIONS, LOCATIONS AND LENGTHS, AND CONCRETE SPALLING AND CRACK REPAIR LIMITS FOR DECK, CAPS, COLUMNS AND ABUTMENTS.
- 14. DURING ANY STRENGTHENING WORK OR BEARING REPLACEMENT, THE CONTRACTOR SHALL MONITOR POTENTIAL CRACKING OF SLABS, PIER CAPS AND COLUMNS, POTENTIAL SETTLEMENT OF THE PIERS, AND UNUSUAL DEFORMATIONS AND DAMAGES IN BRIDGE SUPERSTRUCTURE AND ADJACENT STRUCTURES. THE CONTRACTOR IS RESPONSIBLE TO REPORT ANY UNUSUAL STRUCTURAL BEHAVIOR TO THE ENGINEER AND STOP WORKING IMMEDIATELY. THE CONTRACTOR SHALL REPAIR ANY DAMAGES TO THE EXISTING STRUCTURES AT NO COST TO MIA AND MDAD.
- 15. PLANS, SECTIONS AND DETAILS DO NOT SHOW ALL EXISTING CONDITIONS. THE BRIDGE STRUCTURE IS USED TO SUPPORT A VARIETY OF COMPONENTS AND SYSTEMS SUCH AS REFRIGERANT LINES, ELECTRICAL CONDUIT, CABLE TRAYS, CLADDING, PLATFORM STRUCTURES, ETC. SOME OR ALL OF THESE COMPONENTS AND SYSTEMS WILL INTERFERE WITH THE WORK IN THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, IDENTIFY, PROTECT AND, WHERE IN CONFLICT WITH THE WORK, TO WORK WITH MDAD'S AUTHORITIES TO TEMPORARILY REMOVE OR RELOCATE THESE ITEMS WITHOUT ADVERSELY AFFECTING THEIR INTENDED PURPOSE NOR AIRPORT OPERATIONS SERVED BY CONFLICTING COMPONENTS. ANY REMOVAL OF BUILDING ITEMS INCLUDING JOINTS IN BUILDING AREA TO GAIN ACCESS TO BRIDGE AND BUILDING STRUCTURE COMPONENTS SUCH AS ABUTMENTS, COLUMNS, DIAPHRAGMS, STRUCTURAL STEELS, JOINTS, AND BEARINGS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ALLOCATE SUFFICIENT FUNDING AND TIME IN HIS BID PRICE TO COVER ANY AND ALL WORK DESCRIBED ABOVE.

- 16. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT DAMAGE ANY BUILDINGS (INCLUDING ROOFS, WALLS AND JOINTS ETC.), UTILITIES, RUNNING SURFACE (TRACK), PULLING CABLE, AND ANY OTHER AUTOMATED PEOPLE MOVER (APM) HARDWARE SURROUNDING OR ATTACHED TO THE BRIDGE STRUCTURES. ANY DAMAGE TO THOSE ATTACHMENTS OR STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE AIRPORT, APM OPERATING CONTRACTOR, OR MIAMI DADE AVIATION DEPARTMENT (MDAD).
- 17. ALL WORK RELATED TO UTILITIES (PIPES, CONDUITS, GLYCOL CHILLING PIPES, ETC.) ATTACHED TO THE BRIDGE STRUCTURES SHALL BE COORDINATED WITH THE AIRPORT UTILITY DEPARTMENT AND THE APM OPERATING CONTRACTOR (LEITNER-POMA) DURING THE PRE-BID MEETING. WORK FOR RELOCATING OR ADJUSTING THE UTILITIES ARE TO BE PERFORMED BY OTHERS AND THE COSTS ARE NOT TO BE INCLUDED IN THIS CONTRACT.
- 18. ALL WORK RELATED TO THE APM RUNNING SURFACE EXPANSION JOINTS, PULLING CABLE, OR ANY OTHER APM HARDWARE ALONG THE BRIDGE STRUCTURE SHALL BE COORDINATED WITH THE APM OPERATING CONTRACTOR (LEITNER-POMA) DURING THE PRE-BID MEETING. WORK FOR DISSEMBLING/ADJUSTING RAIL EXPANSION JOINTS (RUNNING SURFACE), RELEASING THE PULLING CABLE, OR REMOVAL OF OTHER APM HARDWARE ARE TO BE PERFORMED BY OTHERS AND THE COSTS ARE NOT TO BE INCLUDED IN THIS CONTRACT.
- 19. CONTRACTOR'S WORK SCHEDULE SHALL TAKE INTO ACCOUNT THE TIME REQUIRED BY MIA UTILITY DEPARTMENT AND THE APM OPERATING CONTRACTOR TO REMOVE OR RELOCATE THE NECESSARY UTILITY OR APM HARDWARE ATTACHED ALONG THE BRIDGE STRUCTURE.
- 20. CONTRACTOR SHALL SUBMIT A SIGNED AND SEALED SPECIAL INSPECTOR FORM FOR CONCRETE REPAIR (M-D CODE, SECTION 8-22) AND STEEL CONNECTIONS.
- 21. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS AS REVISION TO PERMIT AFTER ALL WORK IS DONE WITH THE NEW AND MODIFIED REPAIR NEEDED TO BE DONE AS PER SPECIFIC SITE CONDITIONS FOUND DURING THE REPAIR PROCESS.
- 22. SHOP DRAWINGS SHALL BE SUBMITTED FOR STRUCTURAL STEEL, REPLACEMENT BEARINGS, AND TEMPORARY SUPPORTS. CALCULATIONS SHALL BE PROVIDED FOR THE DESIGNS OF REPLACEMENT BEARINGS AND TEMPORARY SUPPORTS / JACKING FRAMES IN THE SHOP DRAWINGS. SUBMIT SHOP DRAWINGS FOR CORING AND INSTALLATION OF POST-TENSIONING BARS IN THE PIER CAP. SUBMIT SHOP DRAWINGS FOR EXPANSION JOINT REPAIR / REPLACEMENT, CONCRETE REPAIRS FOR SUPERSTRUCTURE AND SUBSTRUCTURE ELEMENTS. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN FLORIDA.
- 23. SPAN JACKING: THE JACKING DETAILS IN THESE PLANS ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN A SPECIALTY ENGINEER TO DESIGN THE COMPLETE JACKING SYSTEM FOR REPLACING THE BEARINGS AND BE SUBMITTED THROUGH SIGNED AND SEALED SHOP DRAWING FOR REVIEW AND APPROVAL BY THE ENGINEER AND MDAD.

STRUCTURAL DESIGN CRITERIA & NOTES:

- 1. DESIGN SPECIFICATIONS: MIA DESIGN GUIDELINE MANUAL, MARCH 2018 EDITION. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION.
- 2. DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD) USING STRENGTH, SERVICE AND FATIGUE LIMIT STATES.
- 3. STRUCTURAL IMPROVEMENTS SHOWN ON PLANS ARE BASED ON THE FOLLOWING ANALYSIS CRITERIA:
 - WALKWAY LIVE LOAD. 100 P.S.F.
 - TRAIN PASSENGER LOAD. 66 PASSENGERS/CAR
 - TRAIN VELOCITY. 43 MPH
 - WIND VELOCITY. 170 MPH
- 4. UNLESS NOTED ON PLANS, ALL STRUCTURAL STEEL TO BE DOMESTIC (ASTM A709 GRADE 50).
- 5. HIGH STRENGTH BOLTS (ASTM F3125, GRADE A325 TYPE 1) TO BE 3/4" DIAMETER, UNLESS OTHERWISE SPECIFIED. PROVIDE MATCHING H.S. NUTS AND WASHERS.
- 6. ANCHOR BOLTS: ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM F1554 GRADE 105. THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH SPECIFICATIONS.
- 7. ALL WELDING TO BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION (AREA) AND (AWS) "STRUCTURAL WELDING CODE - STEEL", D1.5, BRIDGE WELDING CODE. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO BE IN ACCORDANCE WITH THE AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING TO BE REPLACED OR ACCEPTABLY REINFORCED. ALL FULL PENETRATION GROOVE WELDS TO BE SUBJECT TO RADIOGRAPHIC, MAGNETIC PARTICLE, ULTRASONIC, AND LIQUID PENETRANT INSPECTION CONDUCTED BY AN INDEPENDENT TESTING AGENCY PAID BY THE CONTRACTOR. RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT.
- 8. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO DEVELOP MEMBER IN SHEAR. (U.O.N.)
- 9. STEEL BEARING ON STEEL TO BE WELDED THERETO.
- 10. VERIFICATION AND CERTIFICATION OF ALL WELDING FOR THE PROJECT TO BE MADE BY A REGISTERED WELDING INSPECTOR EMPLOYED BY THE CONTRACTOR FOR THIS PURPOSE. COPIES OF ALL WELDING REPORTS TO BE TRANSMITTED TO THE SPECIAL INSPECTOR FOR THE PROJECT AS SOON AS THEY ARE COMPLETED.
- 11. DIMENSIONS: ALL DIMENSIONS IN THE PLANS ARE MEASURED IN FEET, EITHER HORIZONTALLY OR VERTICALLY, UNLESS OTHERWISE NOTED.
- 12. CONCRETE COVER: CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE TSP FOR ALLOWABLE TOLERANCES.
- 13. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED ON THE PLANS. ADDITIONAL JOINTS OR ALTERATIONS TO THOSE SHOWN IN THE PLANS SHALL REQUIRE WRITTEN APPROVAL OF THE ENGINEER.
- 14. CHAMFERS: PROVIDE 3/4" CHAMFER ON ALL EXPOSED SURFACES, UNLESS NOTED OTHERWISE.
- 15. PREPARE STEEL SURFACES TO A SSPC-SP3 "POWER TOOL FINISH" AND APPLY TWO COATS OF ALUMINUM EPOXY MASTIC (GRAY COLOR) ON ALL STEEL AREAS IN CONTACT WITH NEW BEARINGS PRIOR TO INSTALLATION.
- 16. DETECTABLE LEVELS OF HEAVY METALS HAVE BEEN FOUND WITH LOCATION SAMPLED. A SUMMARY OF RESULTS IS PROVIDED HERE. FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATION AND REQUIREMENTS WHILE WORKING ON STEEL STRUCTURE. WORK SHALL BE PERFORMED IN ACCORDANCE WITH RENOVATION, REPAIR, AND PAINTING (RRP) RULE BY EPA.

SAMPLE NO.	COLOR	CONDITION	LEAD (mg/kg)	CADMIUM (mg/kg)	CHROMIUM (mg/kg)	ARSENIC (mg/kg)
001	LIGHT GRAY	INTACT	140	1.9	120	BRL
002	LIGHT GRAY	INTACT	150	BRL	140	BRL
003	LIGHT GRAY	INTACT	49,000	BRL	160	4.4
004	LIGHT GRAY	INTACT	410	1.3	860	BRL

* BELOW REPORTING LIMITS (BRL) - INDICATES THE ANALYTE WAS NOT DETECTED AT THE REPORTING LIMIT.

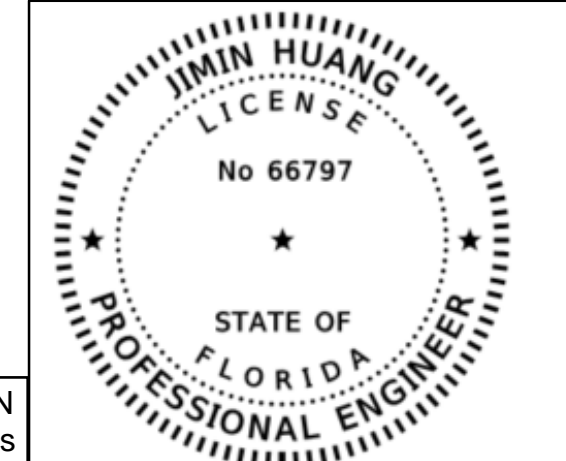
TECHNICAL SPECIAL PROVISION

THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2023-24 EDITION) APPLY TO THE PROJECT WHENEVER APPLICABLE. SEE BELOW FOR SELECTED SECTIONS. THE REFERENCED FDOT SPECIFICATIONS CAN BE DOWNLOADED FROM FDOT WEBSITE: <https://www.fdot.gov/programmanagement/implemented/specbooks/> (FDOT SP)

- SECTION 5: CONTROL OF THE WORK
- SECTION 6: CONTROL OF MATERIALS
- SECTION 7: LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC
- SECTION 8: PROSECUTION AND PROGRESS
- SECTION 100: CONSTRUCTION EQUIPMENT - GENERAL REQUIREMENTS
- SECTION 103: TEMPORARY WORK STRUCTURES
- SECTION 104: PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION
- SECTION 105: CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS
- SECTION 107: LITTER REMOVAL AND MOWING
- SECTION 108: MONITOR EXISTING STRUCTURES
- SECTION 110: CLEANING AND GRUBBING
- SECTION 400: CONCRETE STRUCTURES
- SECTION 411: EPOXY INJECTION OF CRACKS IN CONCRETE STRUCTURES
- SECTION 413: SEALING CRACKS AND CONCRETE STRUCTURE SURFACES
- SECTION 415: REINFORCING FOR CONCRETE
- SECTION 416: INSTALLATION OF POST-INSTALLED ANCHOR SYSTEMS AND DOWELS FOR STRUCTURAL APPLICATIONS IN CONCRETE ELEMENTS.
- SECTION 458: BRIDGE DECK JOINTS
- SECTION 460: STRUCTURAL STEEL AND MISCELLANEOUS METALS
- SECTION 462: POST-TENSIONING
- SECTION 560: COATING NEW STRUCTURES STEEL
- SECTION 562: REPAIR OF GALVANIZED SURFACES
- SECTION 901 COARSE AGGREGATE
- SECTION 902: FINE AGGREGATE
- SECTION 921: PORTLAND CEMENT AND BLENDED CEMENT
- SECTION 923: WATER FOR CONCRETE
- SECTION 924: ADMIXTURES FOR CONCRETE
- SECTION 925: CURING MATERIALS FOR CONCRETE
- SECTION 926: EPOXY COMPOUNDS
- SECTION 929: SUPPLEMENTARY CEMENTITIOUS MATERIALS
- SECTION 930: MATERIALS FOR CONCRETE REPAIR
- SECTION 932: NONMETALLIC ACCESSORY MATERIALS FOR CONCRETE PAVEMENT AND CONCRETE STRUCTURES
- SECTION 934: NON-SHRINK GROUT
- SECTION 937: POST-INSTALLED ANCHOR SYSTEMS FOR STRUCTURAL APPLICATIONS IN CONCRETE ELEMENTS
- SECTION 962: STRUCTURAL STEEL AND MISCELLANEOUS METAL ITEMS (OTHER THAN ALUMINUM)
- SECTION 967: COMPONENTS FOR GUARDRAIL
- SECTION 975: STRUCTURAL COATING MATERIALS

IN ADDITION TO FDOT STANDARD SPECIFICATIONS, SECTION T402 RESTORING SPALLED CONCRETE USING SHOTCRETE IS ALSO APPLICABLE TO THE CONSTRUCTION OF THE PROJECT. SEE PROJECT SPECIFICATION DOCUMENT FOR DETAILS.

- ABBREVIATIONS:
- E = EXPANSION BEARING
- F = FIXED BEARING
- I = INTEGRAL PIER
- E.J. = EXPANSION JOINT
- U.N.O = UNLESS NOTED OTHERWISE
- E.F. = EACH FACE
- N.F. = NEAR FACE
- F.F. = FAR FACE
- ABUT. = ABUTMENT



This item has been digitally signed and sealed by JIMIN HUANG on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ENGINEER OF RECORD: JIMIN HUANG
FL PE NO. 66797



DATE	DESCRIPTION	MARK
8/30/22		

DESIGNED BY: JD
DRAWN BY: EC
CHECKED BY: JH
SUBMITTED BY: JH

ISSUE DATE: 05/25/2022
SOLICITATION NO.:
CONTRACT NO.:

MIAMI-DADE AVIATION DEPARTMENT
MIAMI INTERNATIONAL AIRPORT
MIAMI-DADE COUNTY
P.O. BOX 582075 MIAMI, FL 33159

3250 WEST COMMERCIAL
BOULEVARD, SUITE 100
FORT LAUDERDALE, FL 33309

MIAMI INTERNATIONAL AIRPORT
CONCOURSE 'E' SATELLITE
APM BRIDGE REHABILITATION PROJECT
MDAD PROJECT NUMBER: AB003A

GENERAL NOTES
SHEET ID
S1

BEARING DATA TABLE

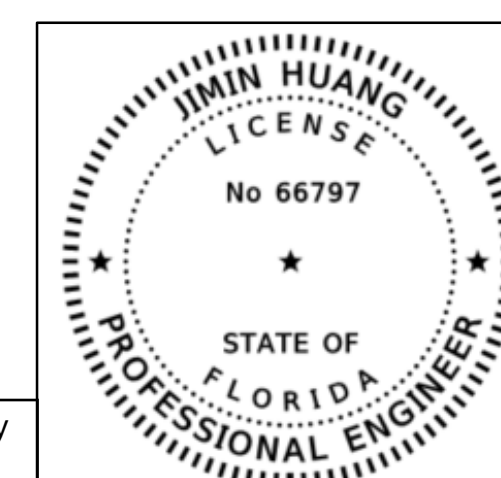
Table with columns: BEARING ID, LOCATION, GIRDER, BEVELED BEARING PLATE AND MASONRY PLATE DIMENSIONS (A-F, T, alpha), ANCHOR BOLT DATA (DIM.H, DIM.S, DIM.W), BEARING PAD DATA (DIM.L, NO. OF INTERNAL LAYERS, TOTAL HEIGHT H).

* PTFE AND STAINLESS STEEL PLATES ARE REQUIRED FOR THE BEARINGS. THE HEIGHT OF THE PTFE AND STAINLESS STEEL PLATES, 9/32" IN TOTAL, IS NOT INCLUDED IN THE TOTAL HEIGHT "H" SHOWN IN THE TABLE.

NOTES:

- 1. FOR BEARING DETAILS SEE BEARING DETAILS SHEETS.
2. SEE FRAMING PLAN AND BEARING LAYOUT SHEETS FOR SUPPORT AND BEARING LOCATIONS.
3. FOR OTHER NOTES SEE BEARING DATA TABLE (2 OF 2) SHEET.

This item has been digitally signed and sealed by JIMIN HUANG on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



ENGINEER OF RECORD: JIMIN HUANG
FL PE NO. 66797



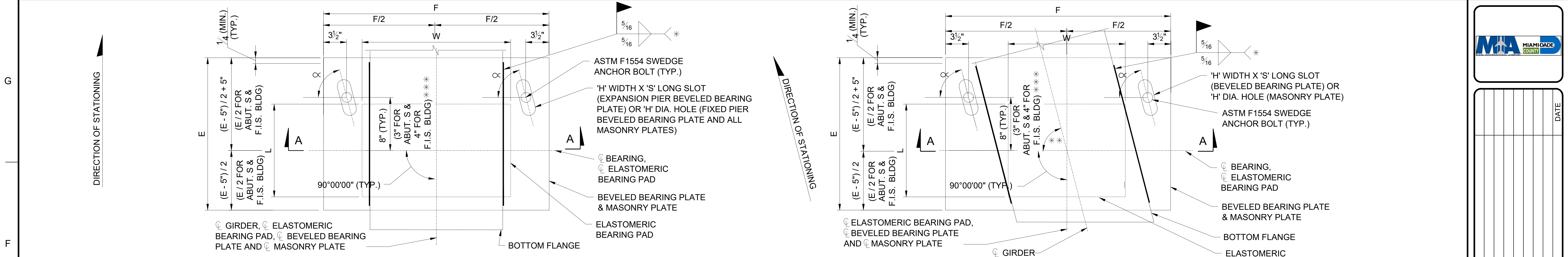
Table with columns: MARK, DESCRIPTION, DATE

Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, SUBMITTED BY, ISSUE DATE, SOLICITATION NO., CONTRACT NO.

MIAMI-DADE AVIATION DEPARTMENT
MIAMI INTERNATIONAL AIRPORT
MIAMI-DADE COUNTY
P.O. BOX 582075 MIAMI, FL 33158
3250 WEST COMMERCIAL
BOULEVARD, SUITE 100
FORT LAUDERDALE, FL 33309

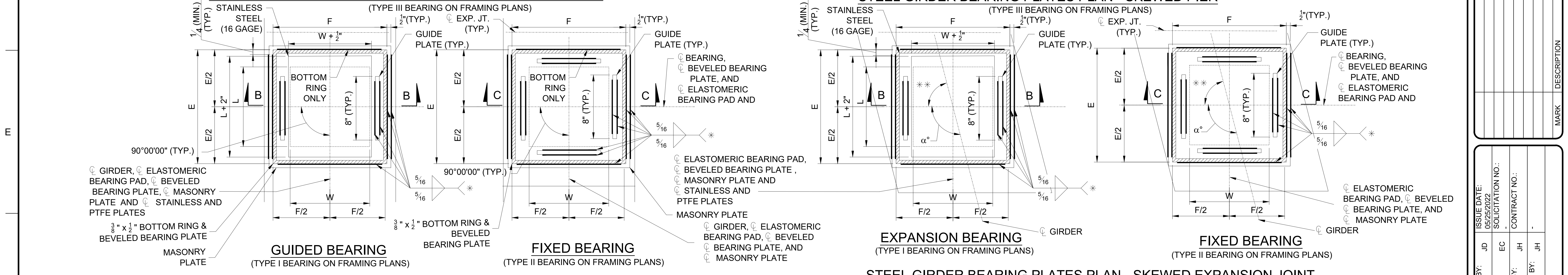
MIAMI INTERNATIONAL AIRPORT
CONCOURSE "E" SATELLITE
APM BRIDGE REHABILITATION PROJECT
MIDAD PROJECT NUMBER: AB003A
BEARING DATA TABLE (1 OF 2)

SHEET ID
S9



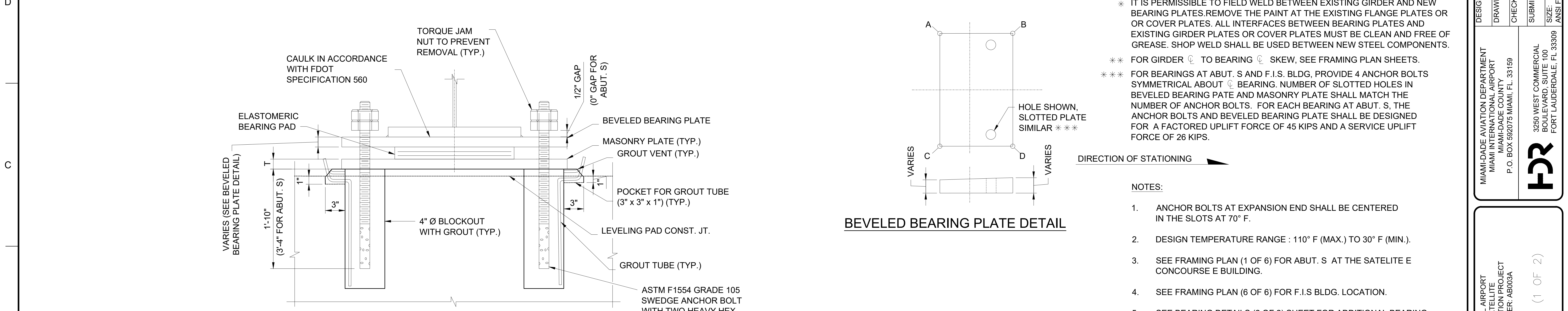
STEEL GIRDER BEARING PLATES PLAN - NON-SKEWED PIER
(TYPE III BEARING ON FRAMING PLANS)

STEEL GIRDER BEARING PLATES PLAN - SKEWED PIER
(TYPE III BEARING ON FRAMING PLANS)



STEEL GIRDER BEARING PLATES PLAN - NON-SKEWED EXPANSION JOINT

STEEL GIRDER BEARING PLATES PLAN - SKEWED EXPANSION JOINT

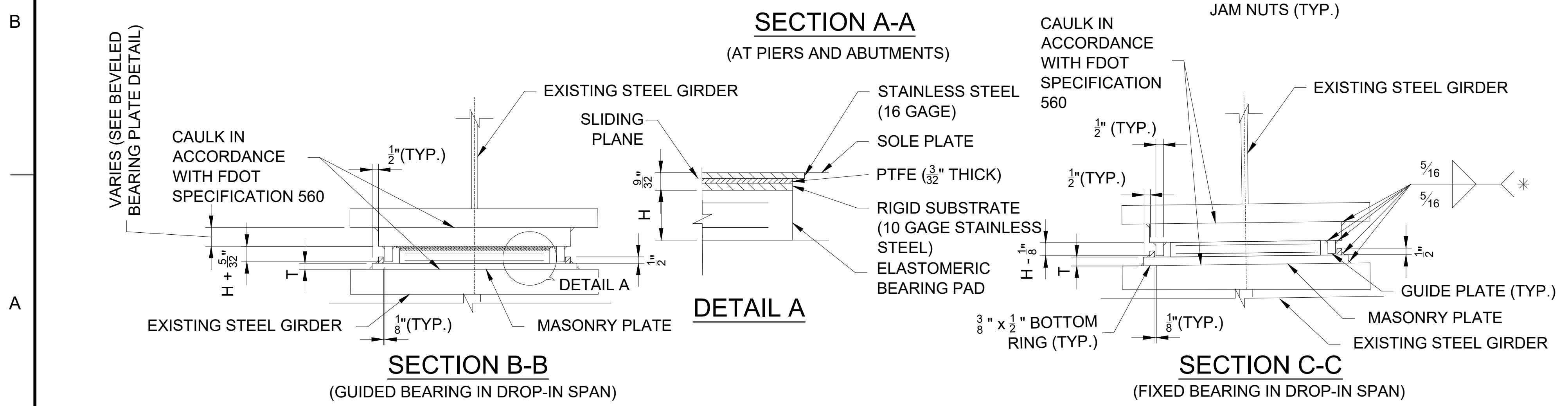


BEVELED BEARING PLATE DETAIL

NOTES:
 * IT IS PERMISSIBLE TO FIELD WELD BETWEEN EXISTING GIRDER AND NEW BEARING PLATES. REMOVE THE PAINT AT THE EXISTING FLANGE PLATES OR OR COVER PLATES. ALL INTERFACES BETWEEN BEARING PLATES AND EXISTING GIRDER PLATES OR COVER PLATES MUST BE CLEAN AND FREE OF GREASE. SHOP WELD SHALL BE USED BETWEEN NEW STEEL COMPONENTS.
 ** FOR GIRDER TO BEARING TO SKEW, SEE FRAMING PLAN SHEETS.
 *** FOR BEARINGS AT ABUT. S AND F.I.S. BLDG, PROVIDE 4 ANCHOR BOLTS SYMMETRICAL ABOUT BEARING. NUMBER OF SLOTTED HOLES IN BEVELED BEARING PATE AND MASONRY PLATE SHALL MATCH THE NUMBER OF ANCHOR BOLTS. FOR EACH BEARING AT ABUT. S, THE ANCHOR BOLTS AND BEVELED BEARING PLATE SHALL BE DESIGNED FOR A FACTORED UPLIFT FORCE OF 45 KIPS AND A SERVICE UPLIFT FORCE OF 26 KIPS.

ANCHOR BOLT NOTES:

- BLOCKOUT HOLE SHALL BE FREE OF DEBRIS PRIOR TO GROUTING. THE BLOCKOUTS SHALL BE GROUTED WITH A NON-SHRINK GROUT CONFORMING TO SPECIAL SPECIFICATIONS AND HAVING A MINIMUM STRENGTH OF 6,000 PSI.
- CONTRACTOR SHALL VERIFY THE LOCATIONS OF THE ANCHOR BOLTS TO CLEAR THE CROSS-FRAMES FOR DRILLING.
- FOR BEARINGS AT ABUT. S AND F.I.S. BLDG, IN ADDITION TO THE TWO ANCHOR BOLTS SHOWN, TWO MORE ANCHOR BOLTS SHALL BE PROVIDED AND 4 ANCHOR BOLTS AT EACH BEARING SHALL BE SYMMETRICAL ABOUT THE CENTERLINE OF BEARING.
- IF THE TOTAL BEARING HEIGHT EXCEEDS THE GAP BETWEEN THE BOTTOM OF THE EXISTING GIRDER AND THE TOP OF THE CONCRETE SUPPORT, THE CONCRETE AT THE BOTTOM OF THE BEARING MAY BE REMOVED TO A DEPTH NO MORE THAN 1 1/2" WITHIN THE CONCRETE COVER TO THE REBAR IN ORDER TO LOWER THE MASONRY PLATE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.



SECTION A-A
(AT PIERS AND ABUTMENTS)

SECTION B-B
(GUIDED BEARING IN DROP-IN SPAN)

SECTION C-C
(FIXED BEARING IN DROP-IN SPAN)

ISSUE DATE: 05/25/2022	DATE
DESIGNED BY: JD	MARK
DRAWN BY: EC	DESCRIPTION
CHECKED BY: JH	MARK
SUBMITTED BY: JH	DESCRIPTION
SIZE: ANS I F	MARK
MIAMI-DADE AVIATION DEPARTMENT MIAMI INTERNATIONAL AIRPORT MIAMI-DADE COUNTY P.O. BOX 592075 MIAMI, FL 33159	DESCRIPTION
3250 WEST COMMERCIAL BOULEVARD, SUITE 100 FORT LAUDERDALE, FL 33309	DESCRIPTION
	DESCRIPTION
MIAMI INTERNATIONAL AIRPORT CONCOURSE "E" SATELLITE APM BRIDGE REHABILITATION PROJECT MIDAD PROJECT NUMBER: AB003A	DESCRIPTION
BEARING DETAILS (1 OF 2)	DESCRIPTION
SHEET ID S11	DESCRIPTION

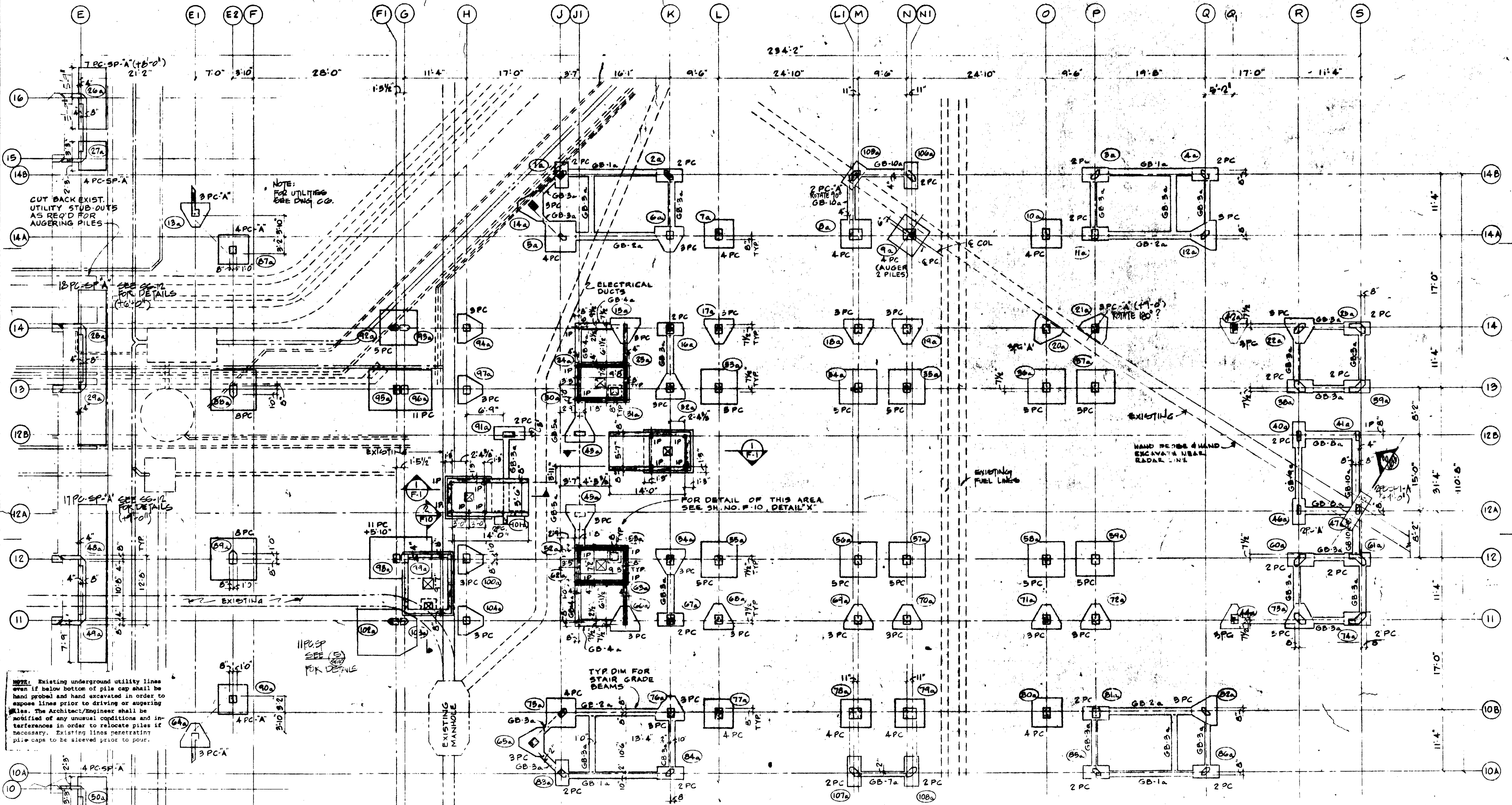
This item has been digitally signed and sealed by JIMIN HUANG on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ENGINEER OF RECORD: JIMIN HUANG
FL PE NO. 66797

HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

Harry Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2760 Douglas Road, Coral Gables, Florida 33134.

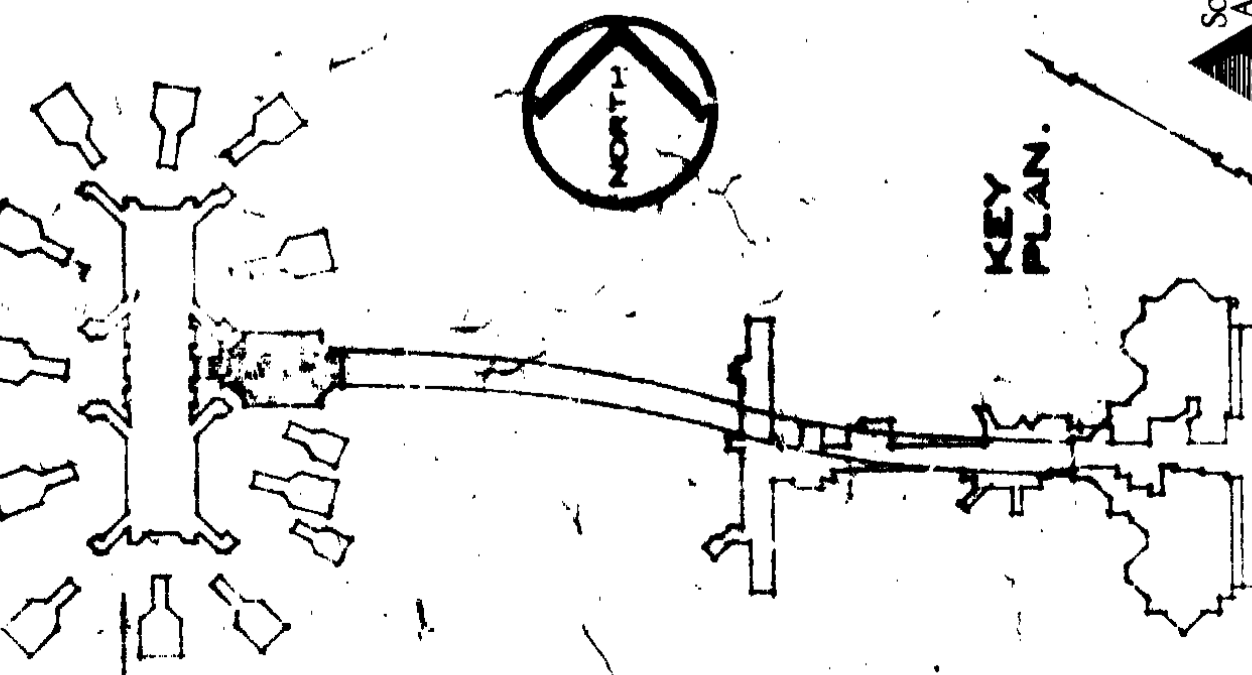
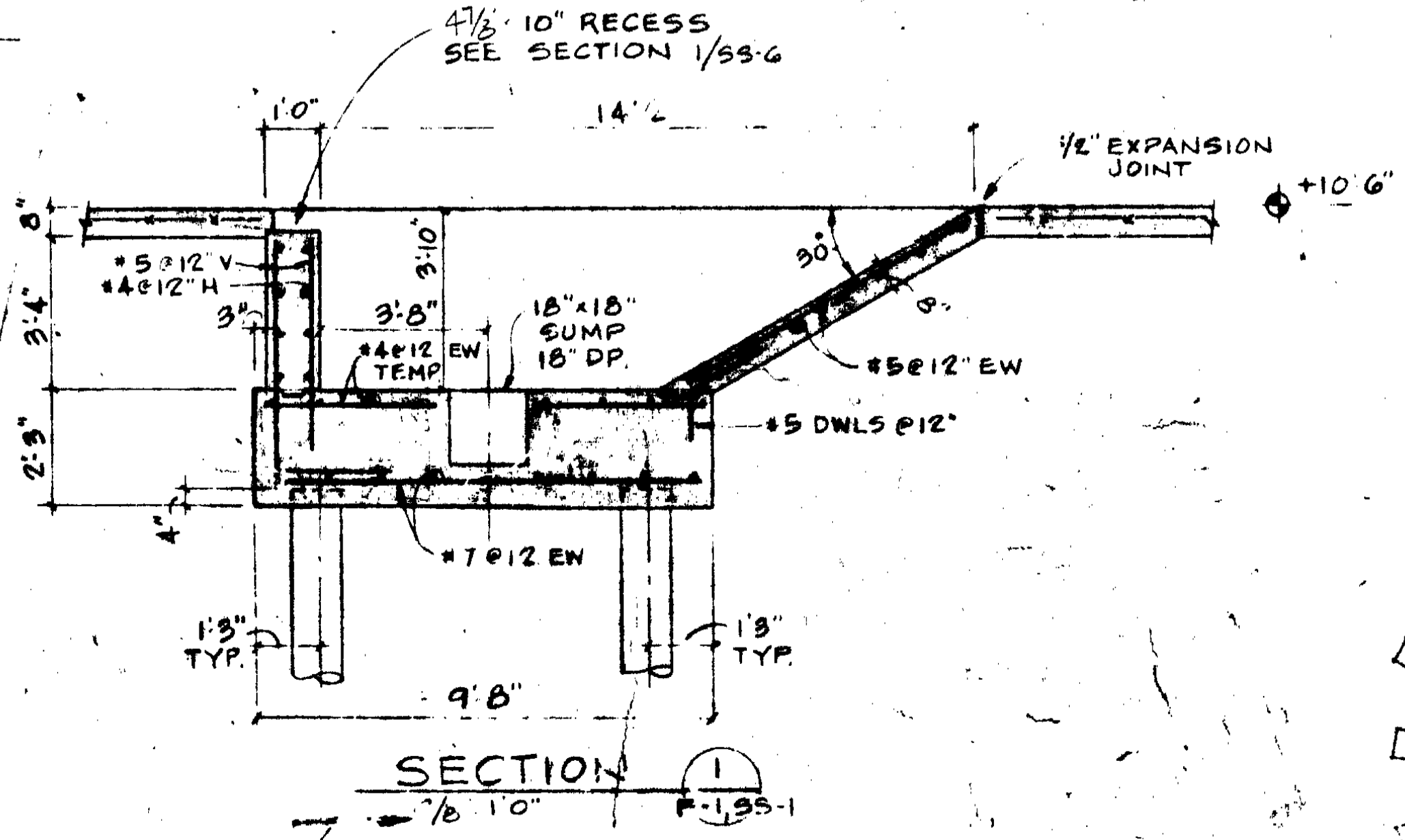


NOTE: Existing underground utility lines even if below bottom of pile cap shall be hand probed and hand excavated in order to expose lines prior to driving or augering piles. The Architect/Engineer shall be notified of any unusual conditions and interferences in order to relocate piles if necessary. Existing lines penetrating pile caps to be sleeved prior to pour.

NOTE: FOR BEAM PLACING DIAGRAM, SEE DWG SS-7

GRADE BEAM SCHEDULE					
MARK	ELEV. TOP OF BEAM	SIZE	REINF. BOTT. TOP	# S TIES NO. SPACING (EA. END)	REMARKS
GB-1a	+8.6	12x20	2-11 2-6	#4 TIES @ 6" x 2'	
GB-2a	+8.6	16x20	3-10 3-5	#4 TIES @ 6" x 4'	
GB-3a	+8.6	12x20	2-6 2-6	#4 TIES @ 6"	
GB-4a	+8.6	12x24	2-5 2-6	@ 8" c/c	
GB-5a	+8.6	20x24	3-5 3-5	@ 8" c/c	
GB-6a	+8.6	18x20	5-6 5-5	@ 8" c/c	
GB-7a	+8.6	10x10	2-5 2-5	@ 10" c/c	
GB-8a	+8.6	10x20	3-6 3-5	@ 8" c/c	
GB-9a	+8.6	12x20	2-7 2-5	@ 8" c/c	
GB-10a	+8.6	16x20	3-7 3-7	#5 @ 8" x 2'	* CONTINUOUS

- NOTE:
1. VERIFY ALL BUILDING & UTILITY LINES.
 2. SEE SHEET NO. C-2 FOR PAVEMENT & GRADING PLAN.
 3. CENTERLINE OF COLUMNS AND PILE CAPS SHALL COINCIDE UNLESS OTHERWISE NOTED.
 4. ELEVATION AT TOP OF PILE CAPS SHALL BE AT +8.6' UNLESS OTHERWISE NOTED.
 5. SEE DWG F-10 FOR PILE CAP DETAILS & GRADE BEAM BAR PLACING DIAGRAM.
 6. SEE DWG SS-7 FOR COL DIM. & REINF.
 7. --- DENOTES EXISTING UNDERGROUND UTILITIES
 8. = DENOTES NEW UNDERGROUND UTILITIES
 9. PILE CAPS INDICATED WITH 'A' SUFFIX (4PC-A) IDENTIFY AUGERED PILE FOUNDATIONS.
 10. PILING NOT AUGERED TYPE SHALL BE CAST-IN-PLACE DRIVEN STEEL SHELL (SEE SPECIFICATIONS). SEE SHEET F-40 FOR PILE CAP DETAILS.

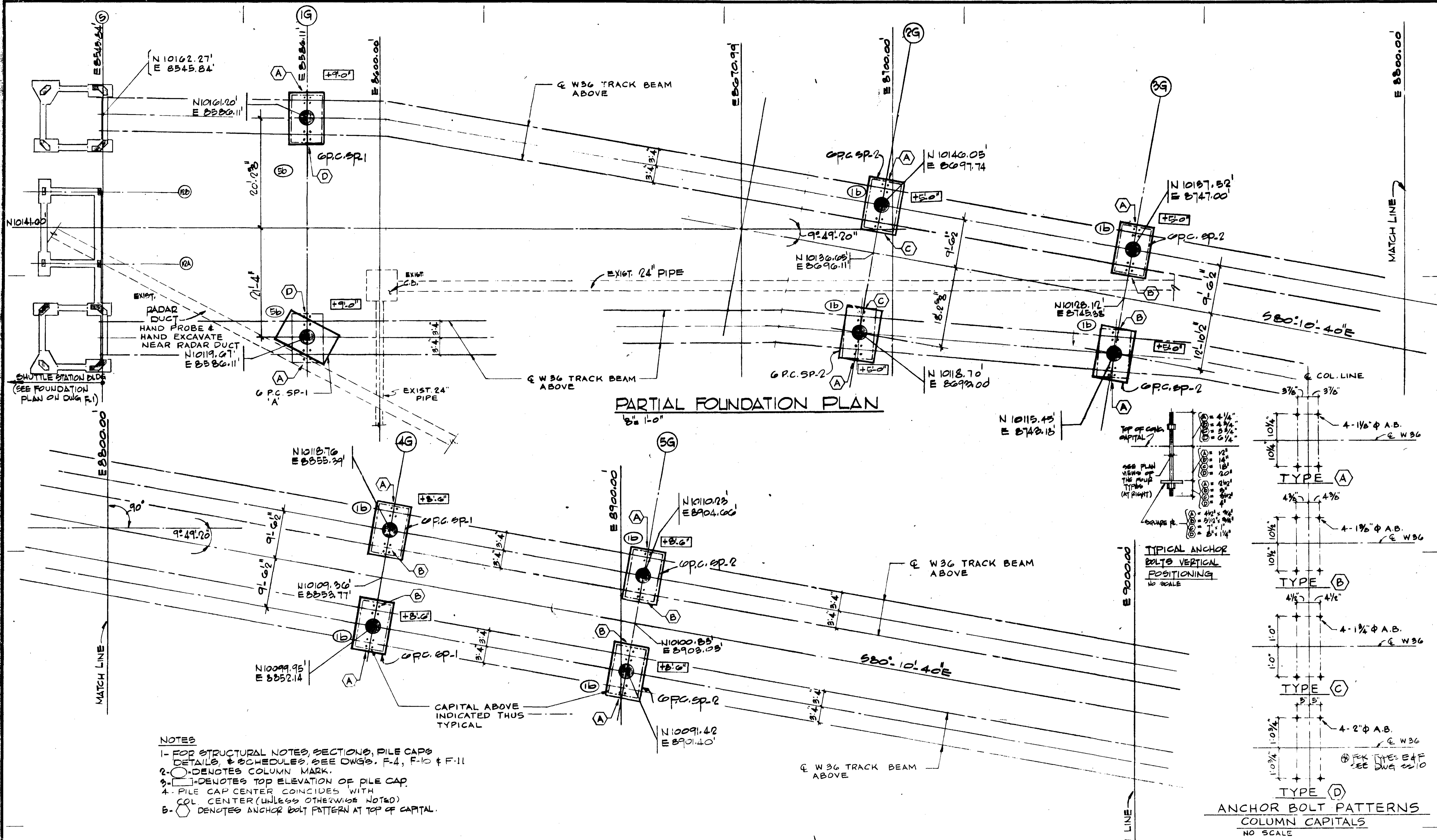


SHUTTLE STATION FOUNDATION PLAN
 Scale as shown

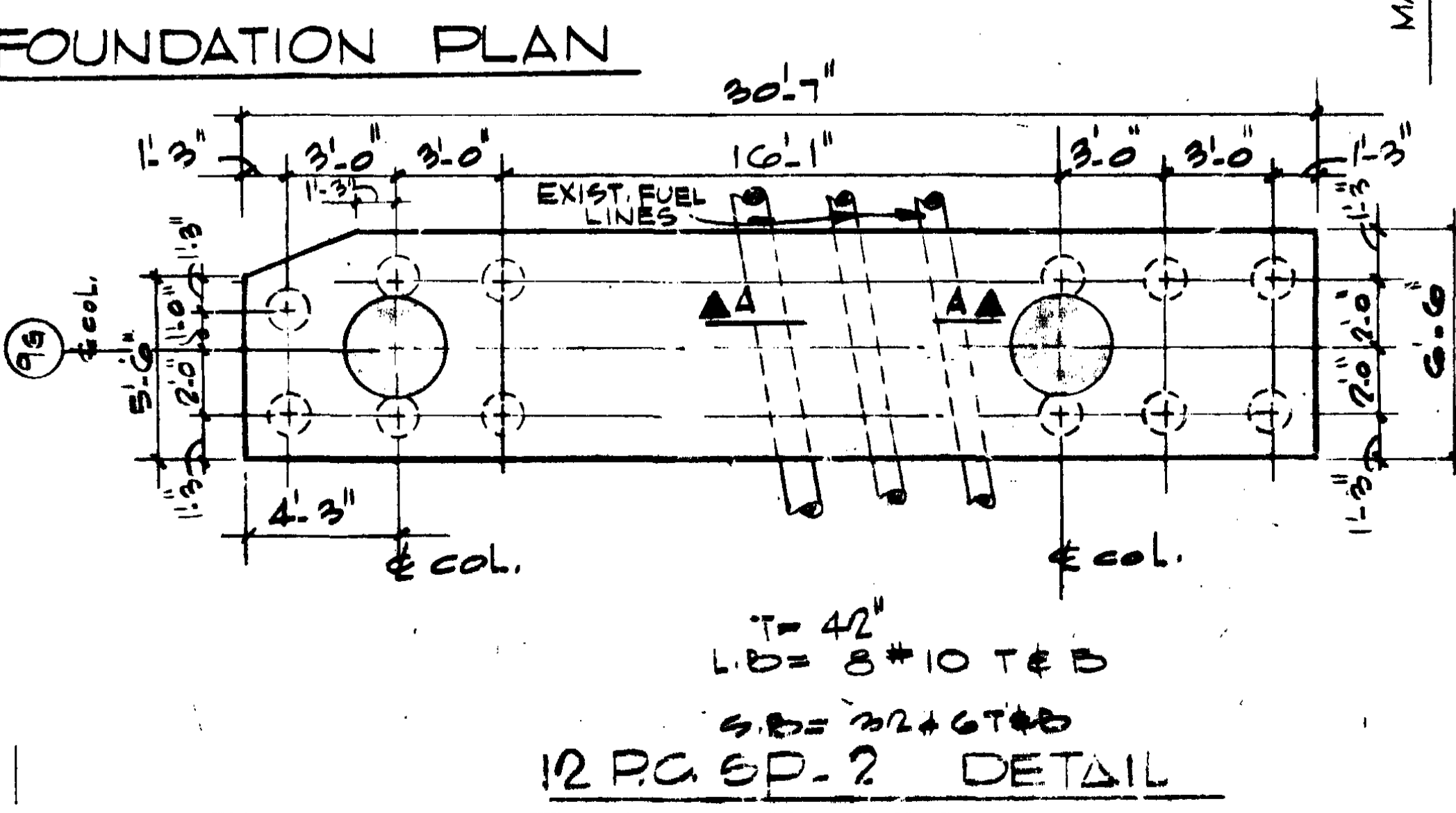
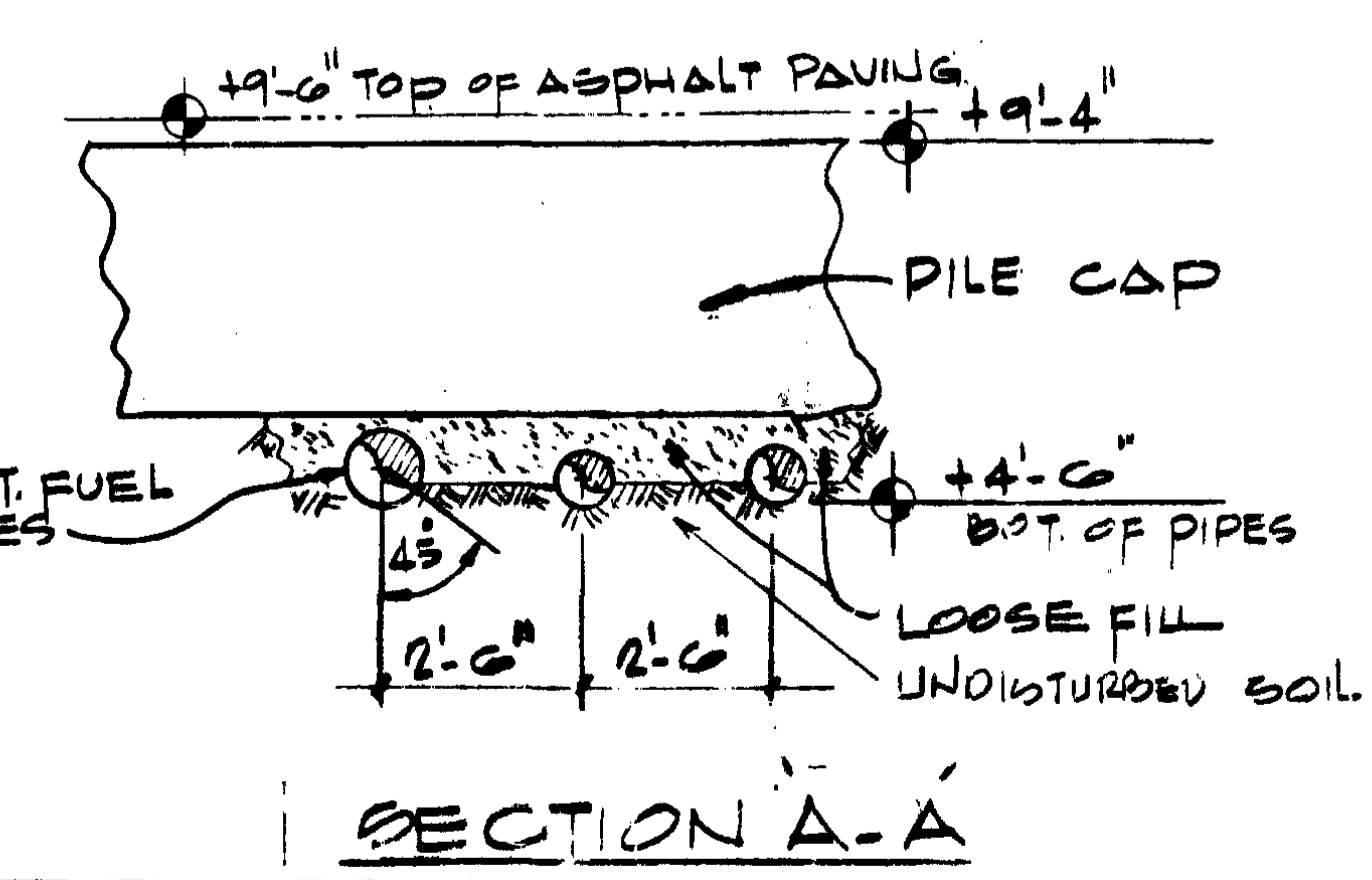
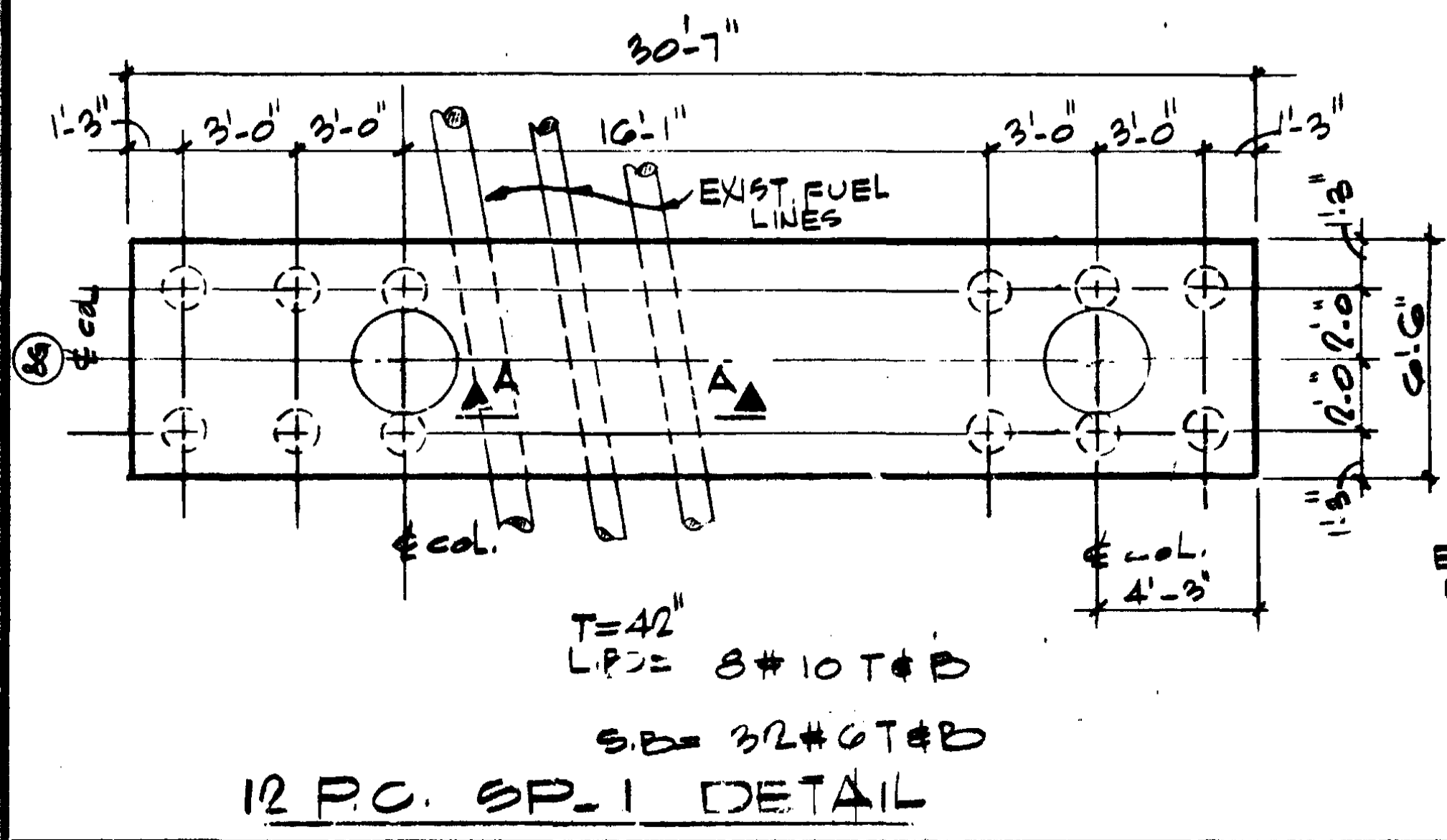
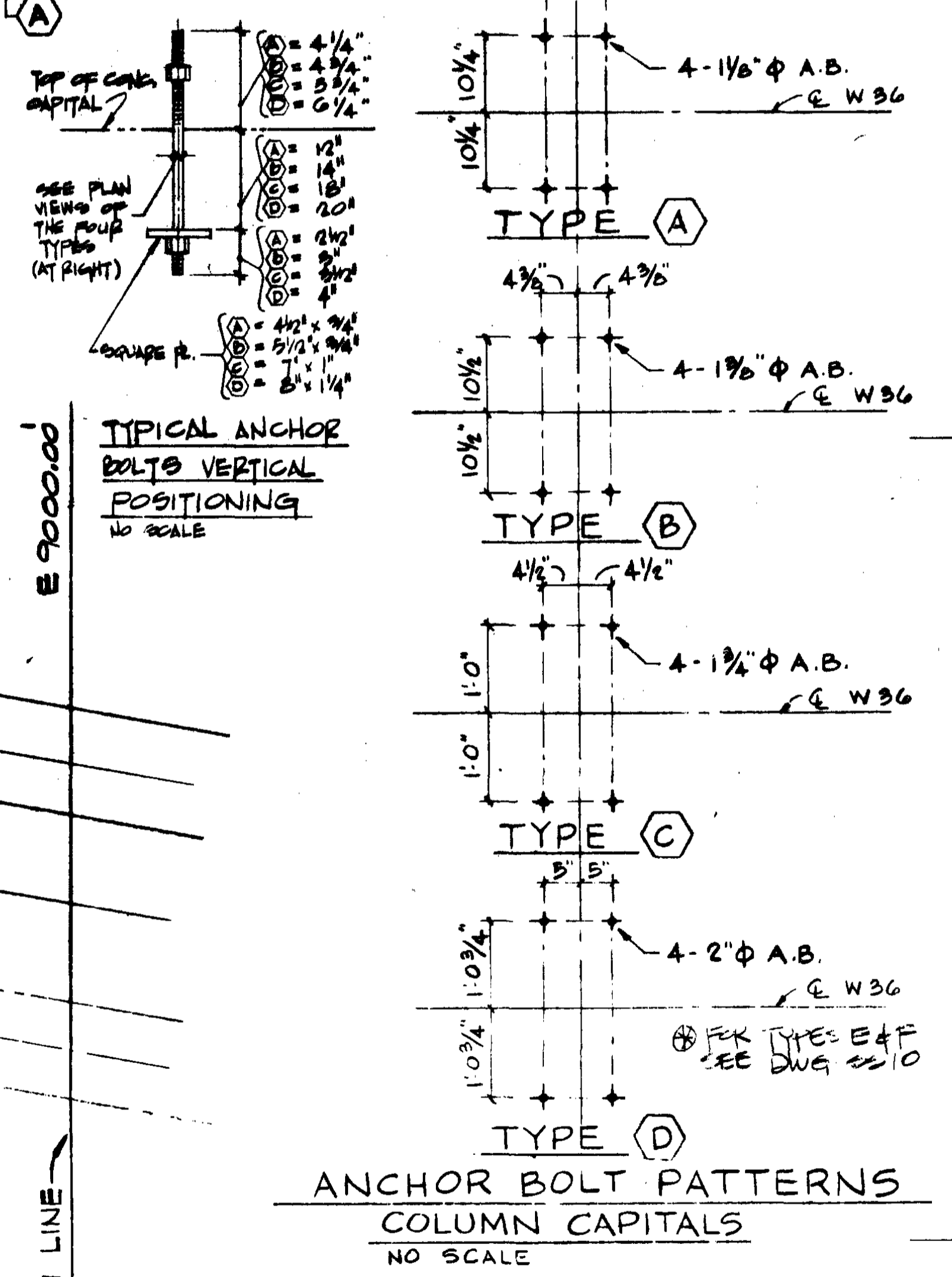
Sheet
 SCHEDULE 1

Date: JULY 10, 1973

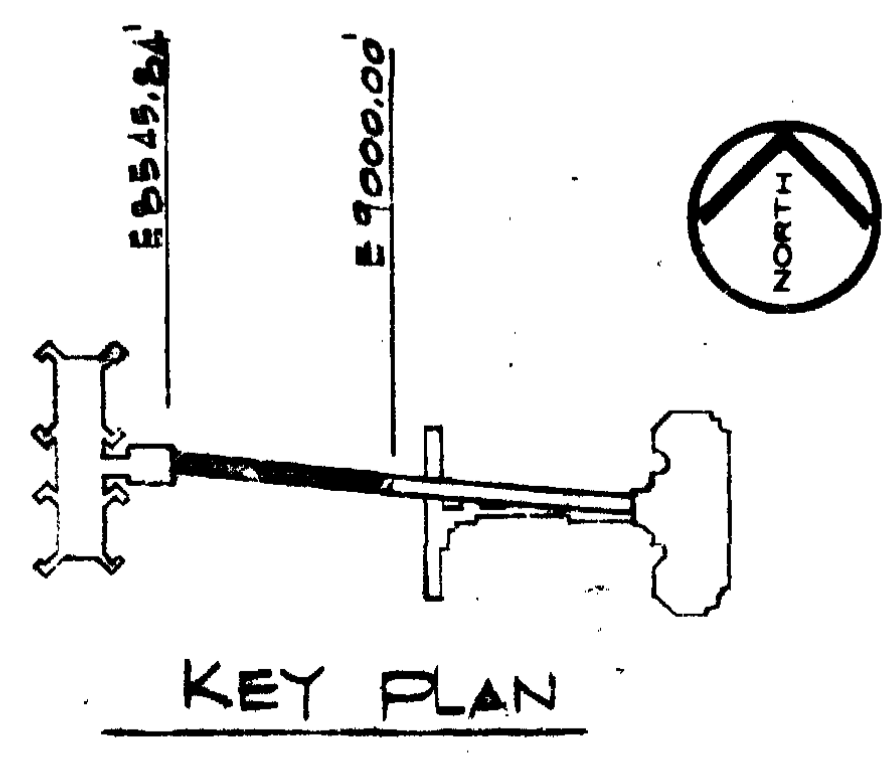
Revisions:



- NOTES**
- 1- FOR STRUCTURAL NOTES, SECTIONS, PILE CAPS DETAILS, & SCHEDULES, SEE DWGS. F-4, F-10 & F-11
 - 2- ○ DENOTES COLUMN MARK.
 - 3- □ DENOTES TOP ELEVATION OF PILE CAP.
 - 4- PILE CAP CENTER COINCIDES WITH COL. CENTER (UNLESS OTHERWISE NOTED)
 - 5- ○ DENOTES ANCHOR BOLT PATTERN AT TOP OF CAPITAL.



NOTE: Existing underground utility lines even if below bottom of pile cap shall be hand probed and hand excavated in order to expose lines prior to driving or grouting piles. The Architect/Engineer shall be notified of any unusual conditions and interferences in order to relocate piles if necessary. Existing line penetrating pile caps to be sleeved prior to pour.



SATELLITE TRANSIT SHUTTLE
 MIAMI INTERNATIONAL AIRPORT
 DADE COUNTY AVIATION DEPARTMENT
 D.C.A.D. CONTRACT 4-14-78

GUIDEWAY FOUNDATION PLAN 8545E TO 8000E Scale: AS SHOWN	Date	JULY 10, 1978
	Revisions	AS BUILT JUNE 78
Sheet	T 2	
SCHEDULE II		

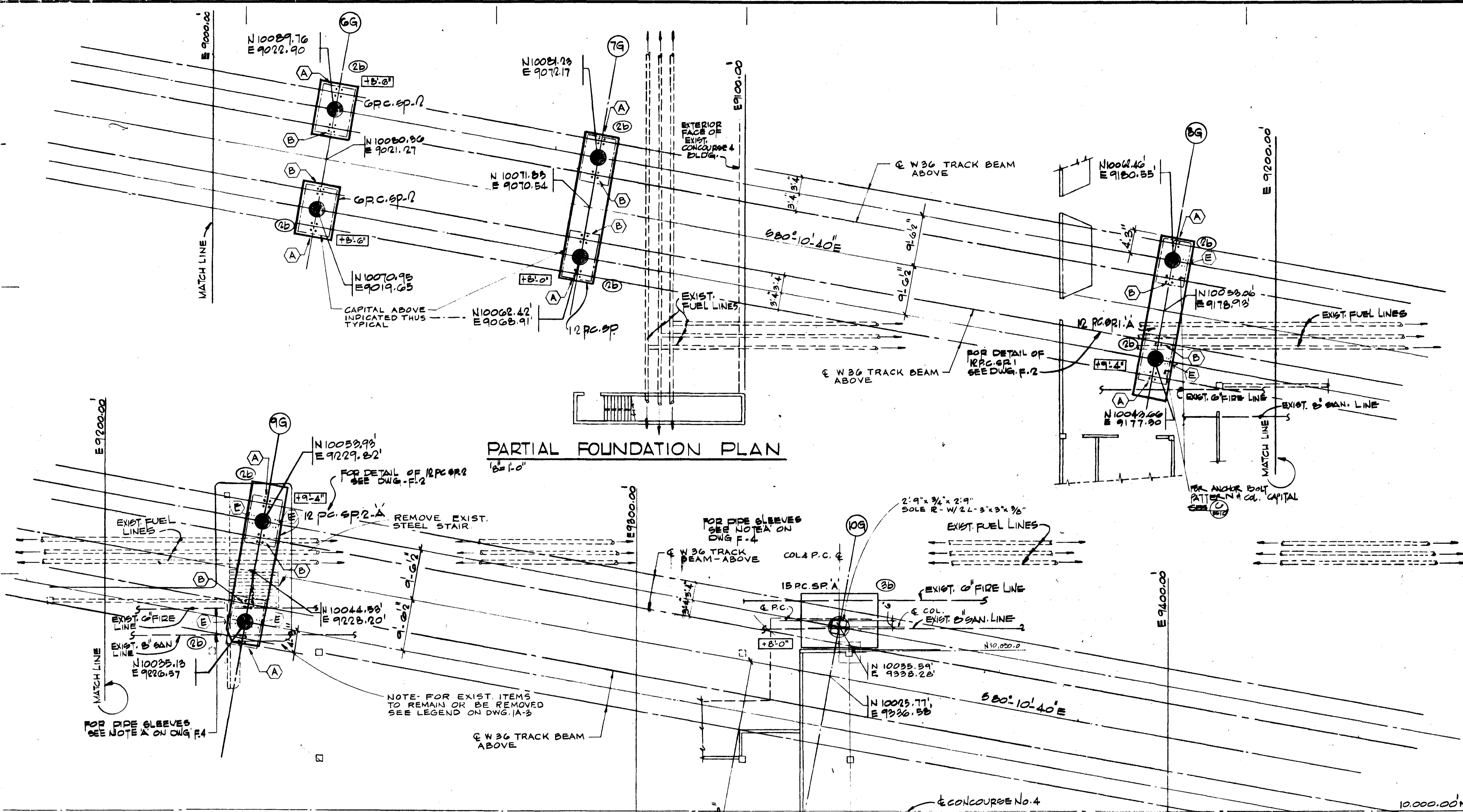
Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.

HOR

HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-28

Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.



PARTIAL FOUNDATION PLAN
8"=1'-0"

PARTIAL FOUNDATION PLAN
8"=1'-0"

TYP. SOLE R DETAIL
NO SCALE

KEY PLAN

- NOTES**
- 1- FOR STRUCTURAL NOTES, SECTIONS, PILE CAPS DETAILS & SCHEDULES, SEE DWG. G, F. 4, F. 10 & F. 11
 - 2- ○ = DENOTES COLUMN MARK.
 - 3- □ = DENOTES TOP ELEVATION OF PILE CAP.
 - 4- PILE CAP CENTER COINCIDES WITH COL. CENTER (UNLESS OTHERWISE NOTED)
 - 5- ○ = DENOTES ANCHOR BOLT PATTERN AT TOP OF CAPITAL.

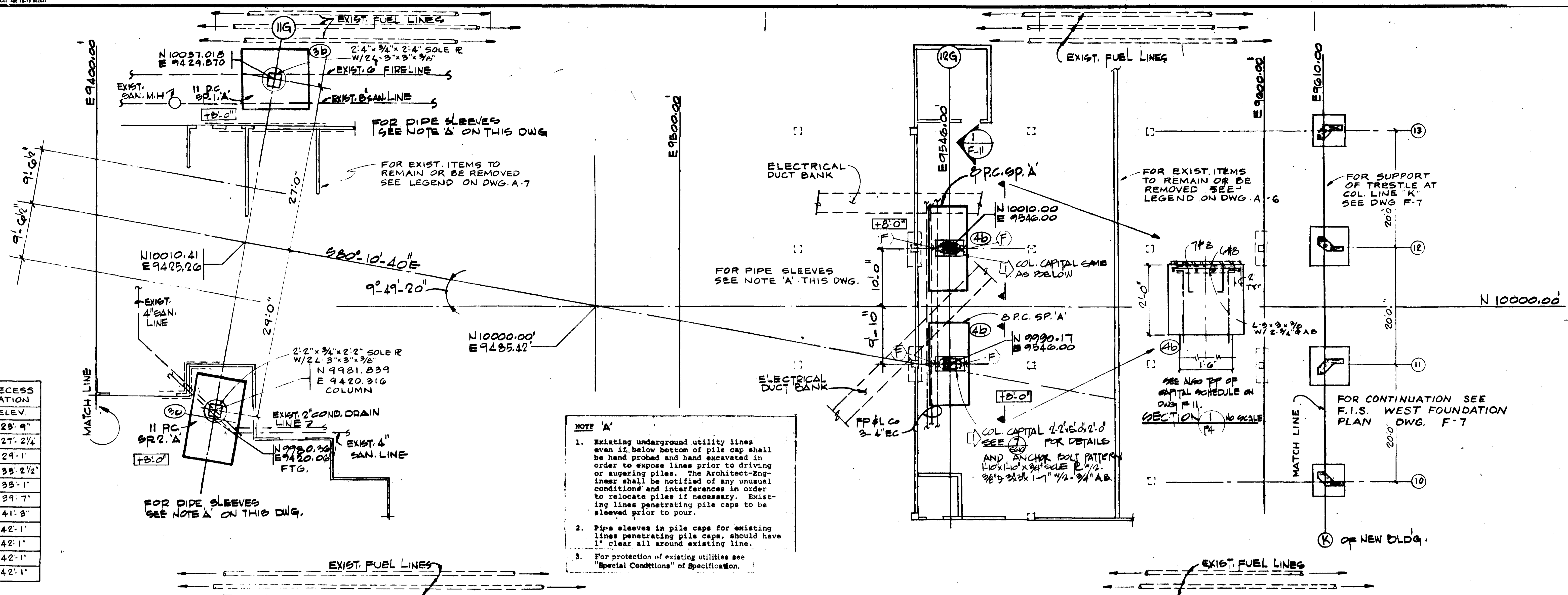
NOTE - FOR ANCHOR BOLT PATTERNS AT COLUMN CAPITALS, SEE DWG. F. 2 & PLAN G/210 & PLAN 7/500

NOTE: Existing underground utility lines even if below bottom of pile cap shall be hand probed and hand excavated in order to expose lines prior to driving or augering piles. The Architect/Engineer shall be notified of any unusual conditions and interferences in order to relocate piles if necessary. Existing lines penetrating pile caps to be sleeved prior to pour.

GUIDEWAY FOUNDATION PLAN 3000E TO 3400E Scale: AS SHOWN	Date	JULY 10 1975
	Revisions	AS BUILT 7/10/75

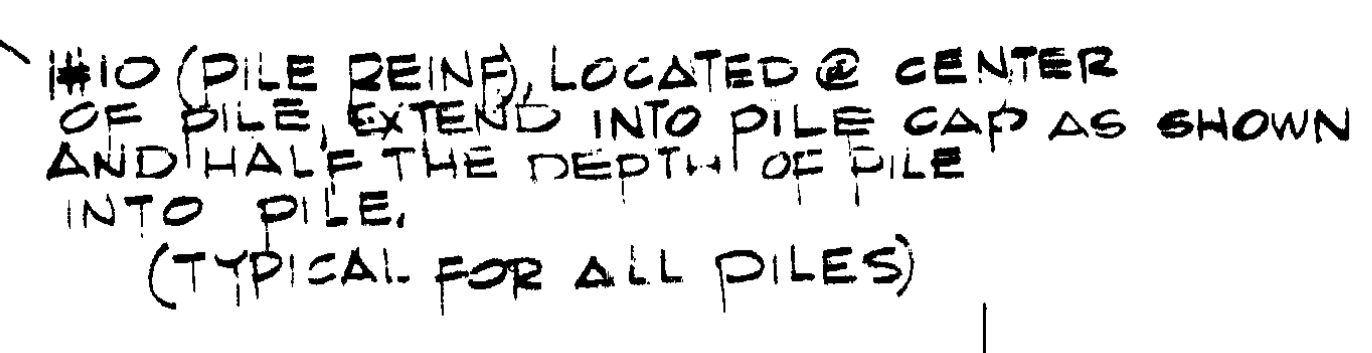
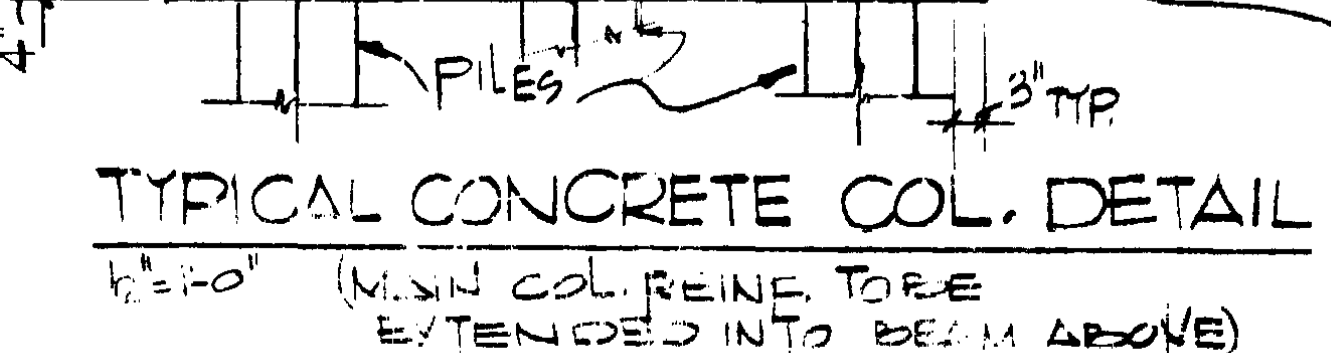
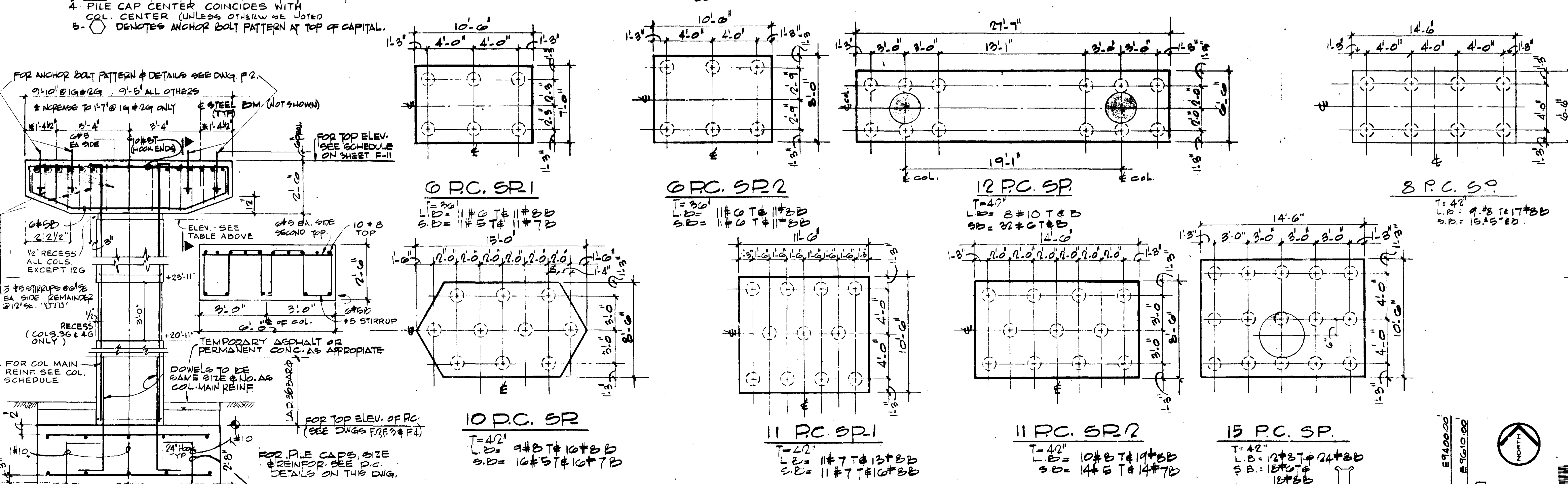
Sheet	7
SCHEDULE II	3

COL. RECESS ELEVATION
1G +25'-9"
2G +27'-2 1/4"
3G +29'-1"
4G +33'-2 1/2"
5G +35'-1"
6G +39'-7"
7G +41'-3"
8G +42'-1"
9G +42'-1"
10G +42'-1"
11G +42'-1"



- NOTES**
- FOR STRUCTURAL NOTES, SECTIONS, & SCHEDULES SEE DWG'S. F-4, F-10 & F-11
 - = DENOTES COLUMN MARK.
 - = DENOTES TOP ELEVATION OF PILE CAP.
 - = PILE CAP CENTER COINCIDES WITH COL. CENTER (UNLESS OTHERWISE NOTED)
 - = DENOTES ANCHOR BOLT PATTERN AT TOP OF CAPITAL.

PARTIAL FOUNDATION PLAN



NOTE:
L.B. = DENOTES LONG BARS
S.B. = DENOTES SHORT BARS

PILES NOTES

- PILES ARE CAST IN PLACE, UNLESS OTHERWISE NOTED IN PLAN. (60 TONS CAPACITY PILE)
- ALL PILE CAPS MARKS FOLLOWED BY THE LETTER 'A' DENOTES AUGERED PILES (60 TONS CAPACITY PILE)

KEY PLAN

GUIDEWAY FOUNDATION PLAN 94000.E. TO 96000.E. Scale: AS SHOWN

DATE: JULY 10, 1975

Revisions: AS BUILT

Sheet: F-4

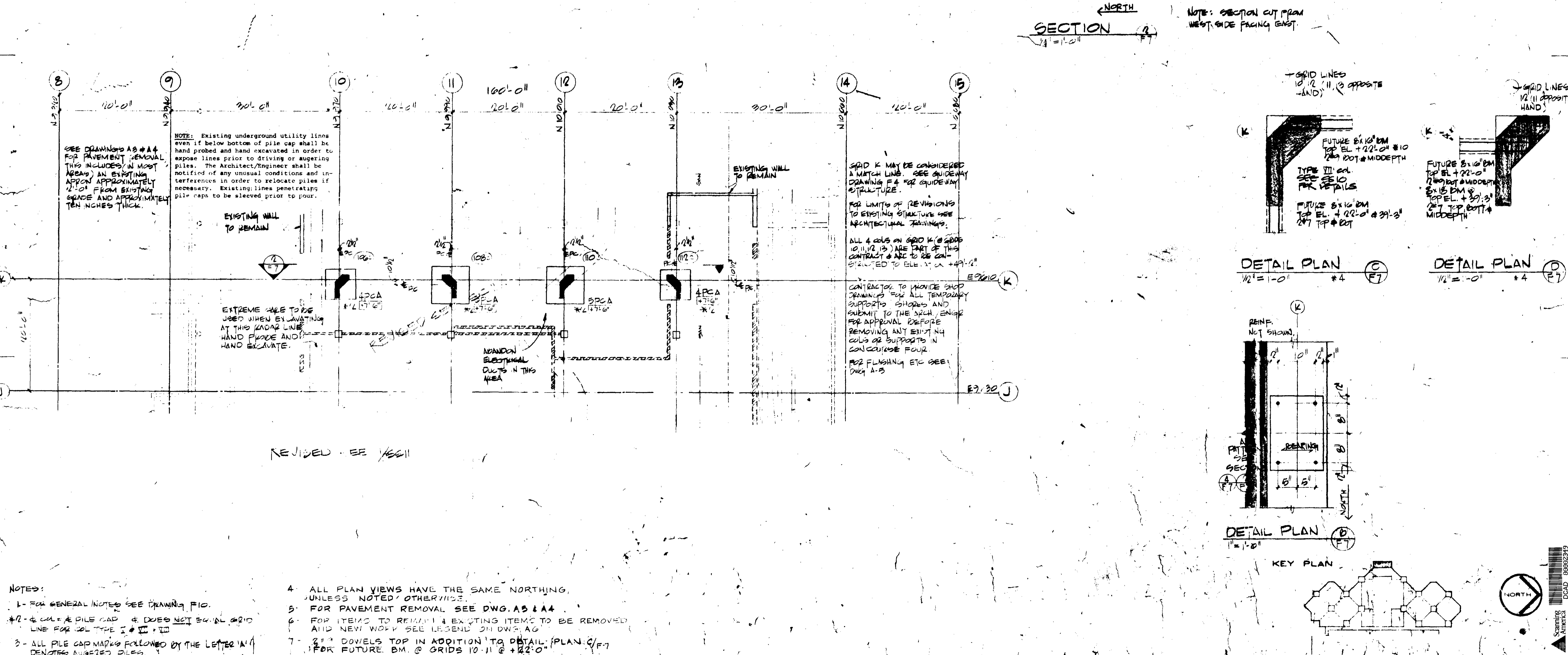
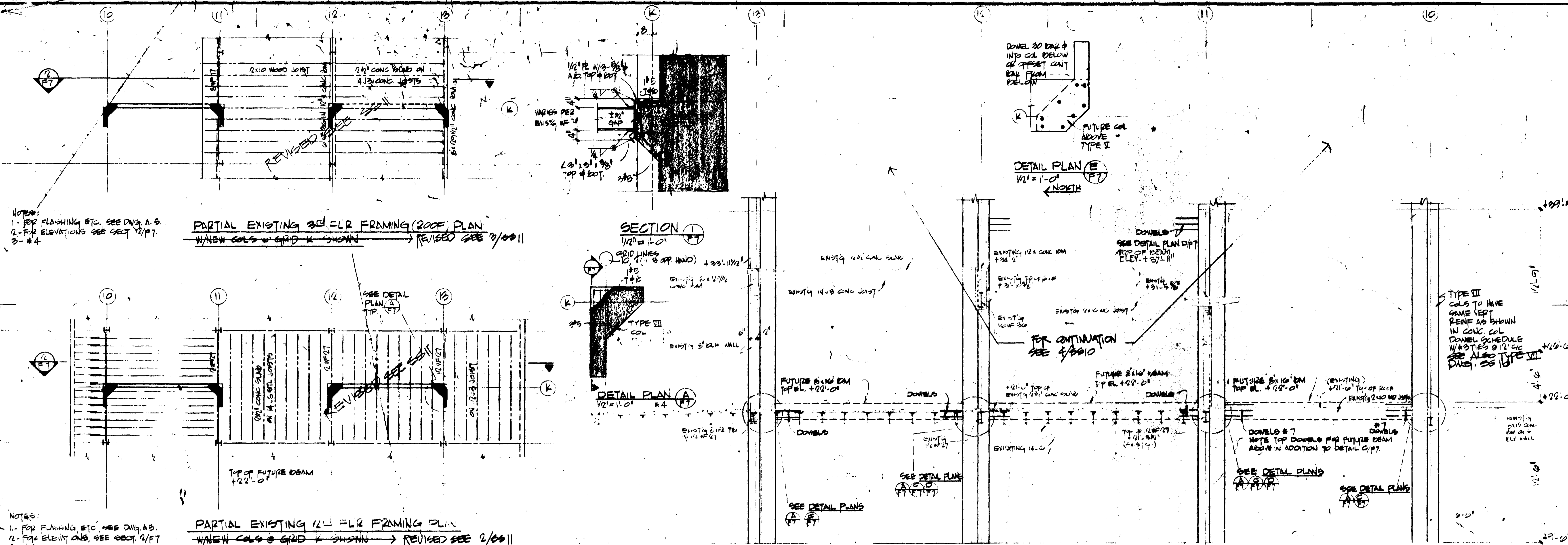
SCHEDULE II

FOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

Date JULY 10, 1975	Revisions As Built JUNE 1974

218-9



Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Ross Coral Gables, Florida 33134

HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

Harry Spenceheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.

SYMBOLS (Continued)

The lower case letter "a", "b" or "c" following structural marks denote the location of that member as follows:
a Satellite Shuttle Station
b Guideway
c Federal Inspection Services Building
For legend of existing facilities see Appendix A, Sheet PA-6.

CONCRETE

Shall be a mix designed for ultimate strength type concrete in accordance with ACI 318-63, Section 19.1.1. The maximum aggregate size shall be 3/4" except shuttle guideway columns, capitals and foot ledges, which shall be 1" maximum size.

All concrete shall contain an approved water reducer and retarding admixture conforming to ASTM C494-68 Type "D".

All concrete for elevator pits, escalator pits, baggage conveyors or tunnels or other parts of similar application shall be integrally waterproofed with "Hydracote" liquid or engineer approved equal in accordance with manufacturers recommendations. Provide interlocks in all construction joints below grade in reinforced concrete walls.

REINFORCING STEEL

Shall be deformed bars, free from loose rust and scale, and to Standard Specifications for Deformed Billet Steel Bars for Concrete Reinforcement, ASTM A616-63, Grade 60. Ties, anchors, stirrups shall conform to ASTM A615-68, Grade 40 unless otherwise noted.

Lap all bar splices at bar diameters unless otherwise noted. Bond all horizontal wall bars 12" around all corners. All bars shall be detailed and fabricated following the requirements of ACI 318-63. Placing of bars shall conform to CRSI Recommended Practices for Placing Reinforcing Bars.

Minimum concrete cover on reinforcing bars shall be as follows, unless noted otherwise:
concrete beams and columns 1 1/2"
formed surfaces exposed to weather and/or earth concrete deposited against ground 3"

All exposed column dowels to be provided with mechanical protection consisting of a 5.5 gallon drum or equivalent filled with sand to cover 1'-0" above top of dowels.

Legs of foundation cranes to be galvanized.

STRUCTURAL STEEL

Structural steel shall conform to the A. I. S. C. Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, latest edition, 1963, Part 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Welding to be done by a certified arc welder using the latest approved A. W. S. techniques.

All steel beam connections not detailed to be designed per latest A. I. S. C. specifications.

FOUNDATION

Piles shall be driven steel shell or augered cast-in-place.

Piles shall be 14" bolt diameter (minimum) driven steel shell or 16" diameter augered cast-in-place piles with a minimum of 50 ton safe bearing capacity. Augered piles are noted in plan as "A" following the pile or pile cap mark. Tension piles, where noted on plans, shall be reinforced with 1 #10 to mid depth of pile; all other piles to have 1 #7 x 6'-0" over pile extended 3'-0" minimum into pile.

Existing utility lines, even if below the bottom of the pile cap, shall be exposed prior to driving or augering piles. The A. I. S. C. shall be notified of any interference and its approval obtained before proceeding with driving or augering piles.

EXISTING CONSTRUCTION

Contractor shall verify existing construction prior to bid submittal. Proper shoring and girding, as required, is to be provided to maintain undisturbed operation of the second floor during execution of this contract. Shop drawings for temporary shoring and bracing of existing construction shall be submitted for approval. See Drawings A-3 and A-4 for pavement removal. This contract is to be installed on an existing apron approximately 1'-0" from existing grade and approximately 10' thick. Refer to Specification Section 163 for submittal and approval by the Architect, Engineer and D. C. A. D. of shop drawings and calculations for temporary shoring.

Contractor shall protect from damage all existing foundations and underground utilities during installation of new foundations.

SHOP DRAWINGS

All reinforcing steel, temporary shoring and structural steel shop drawings shall be submitted to the Architect/Engineer for approval. No fabrication, erection or placement shall take place until an approved and/or corrected set of shop drawings are returned to the respective parties concerned.

OPENINGS IN SLABS, BEAMS AND WALLS

All openings shall be located, sized and reinforced as shown on the plans and details with the exception of small openings and/or sleeves of a size that will not displace nor interrupt the continuity of the reinforcing. Any alterations require the approval of the Architect/Engineer. No openings shall be placed or cut into slabs, beams or walls without the express consideration and approval of the Architect/Engineer.

Mechanical, electrical or plumbing contractor to locate openings and sleeves in concrete prior to concrete pour.

SYMBOLS

- Denotes column mark
- Denotes pile cap elevation
- ① Number of section
- ② Sheet number where section is detailed
- ③ Number of section
- ④ Sheet number where section is cut

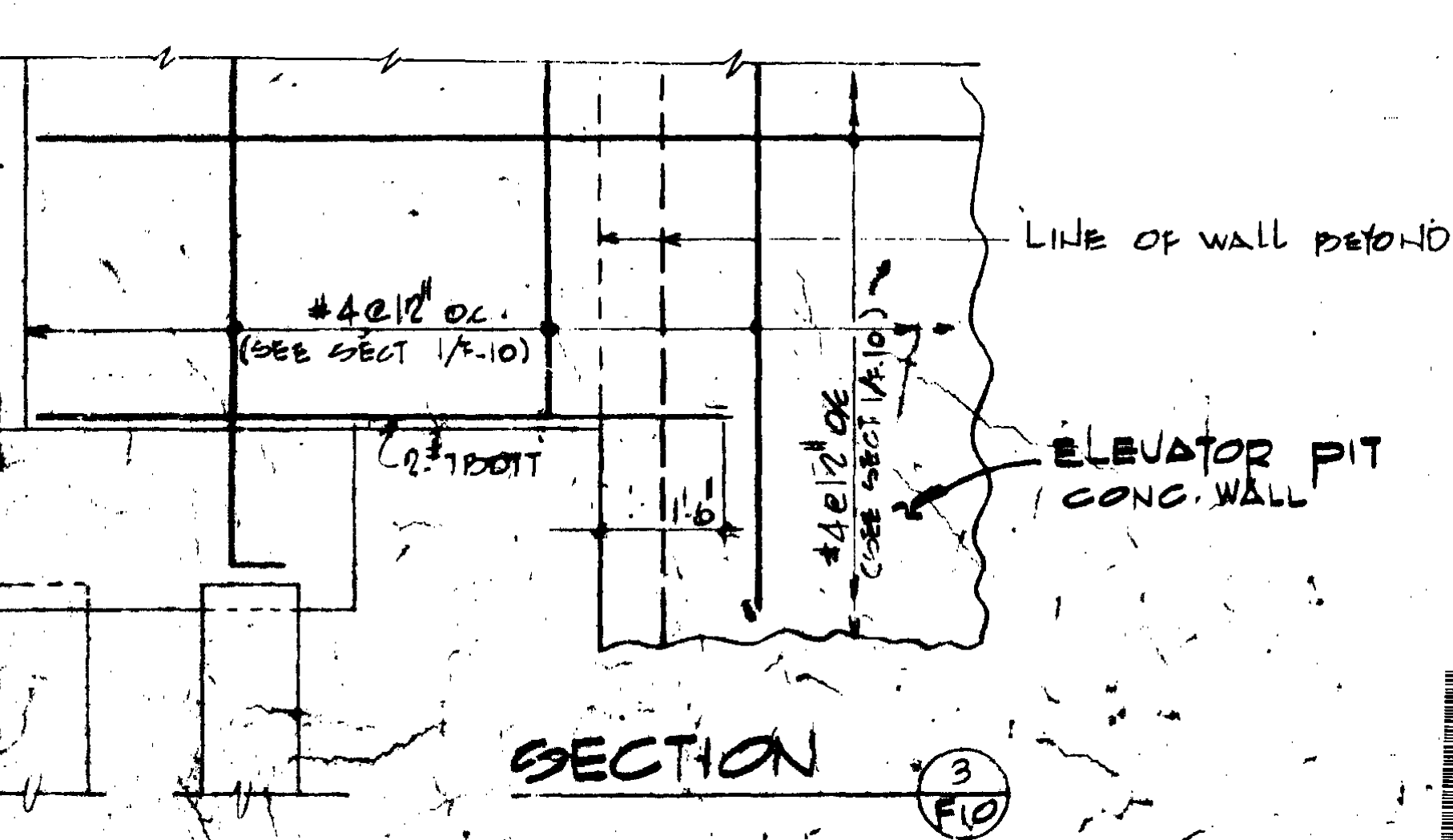
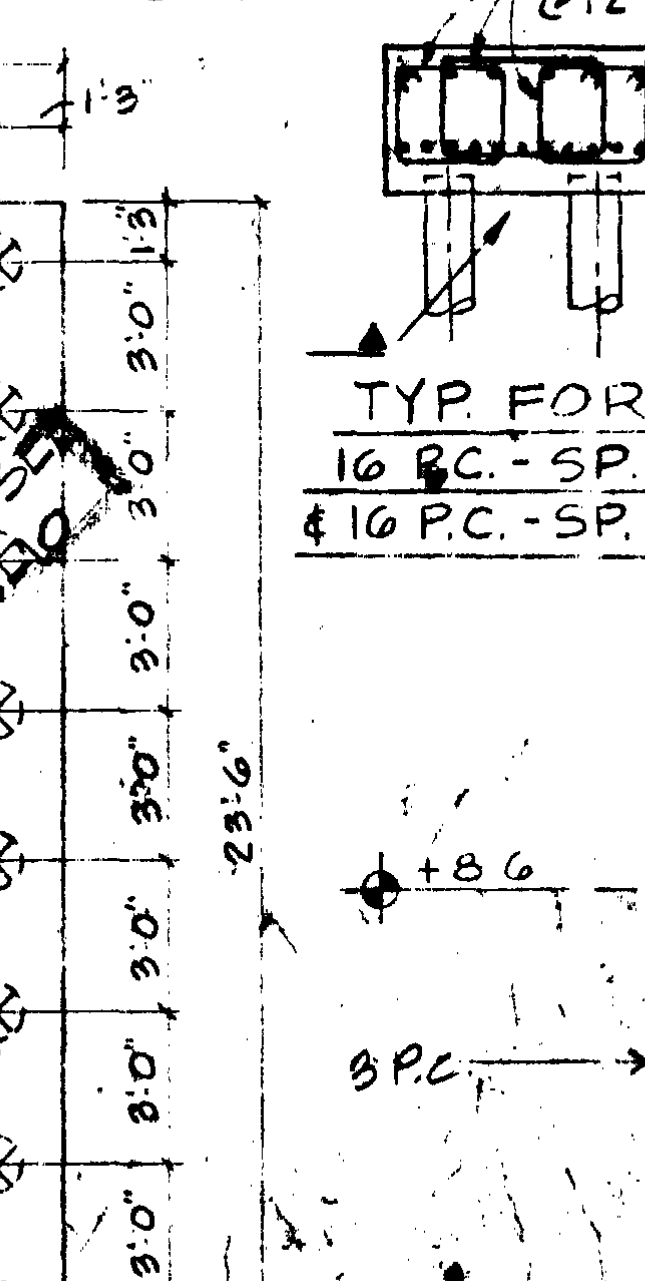
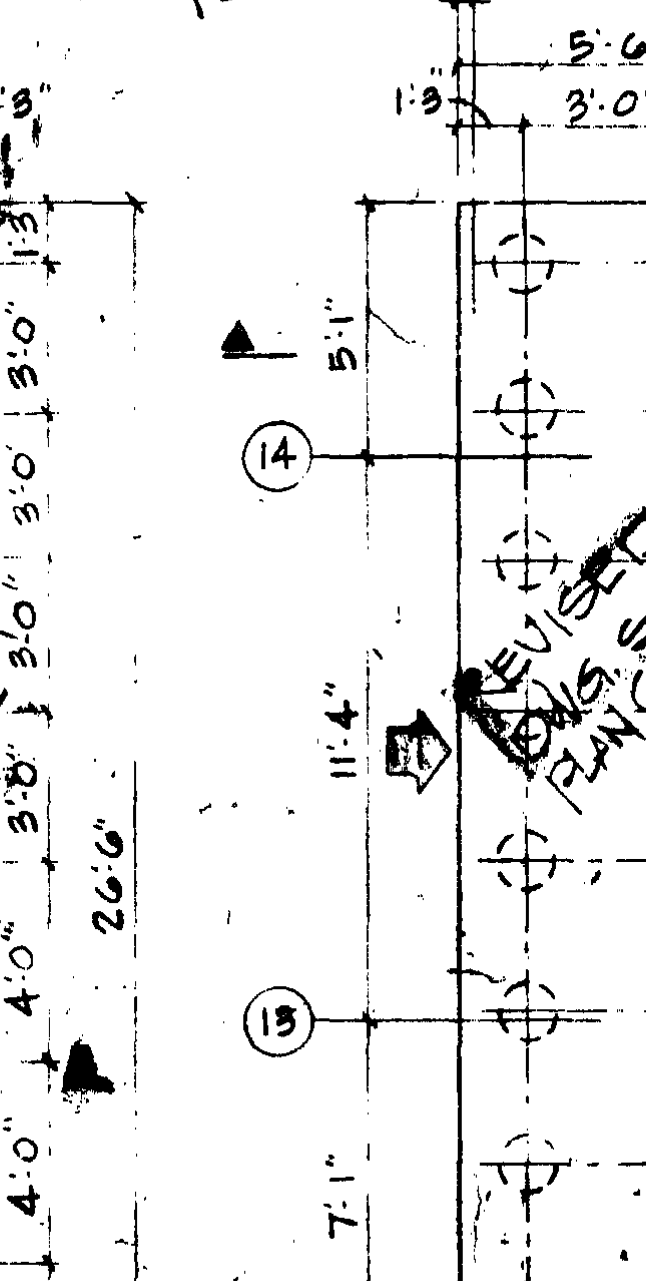
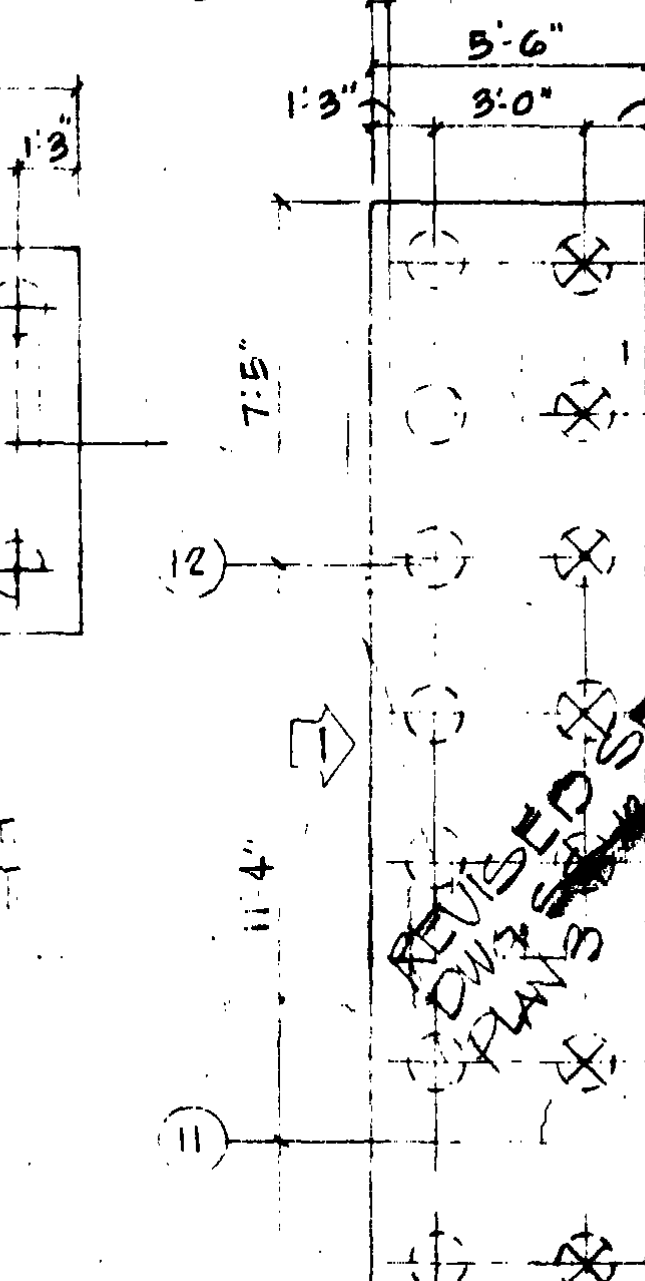
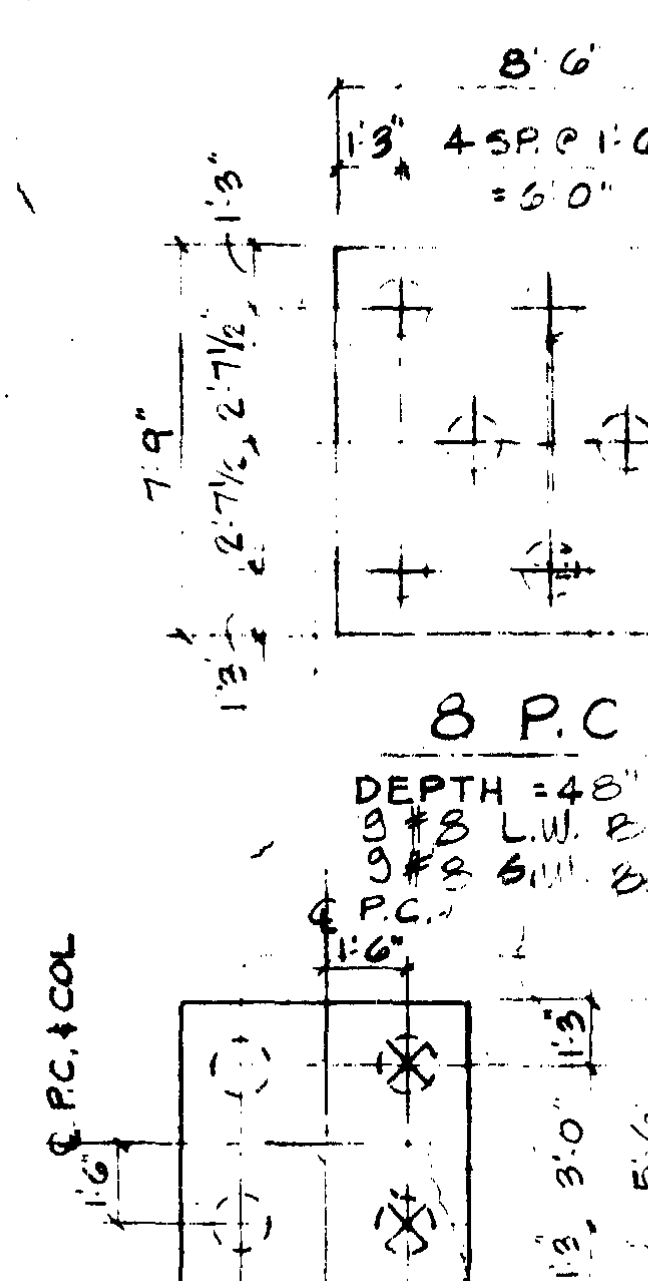
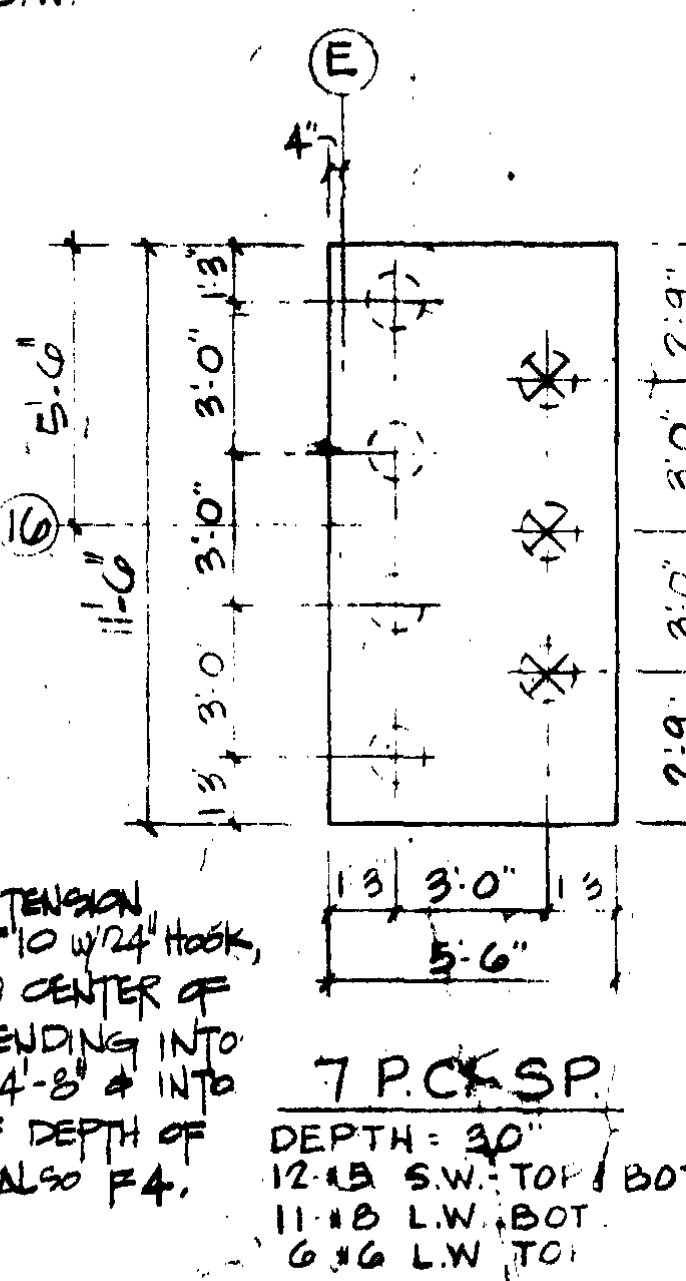
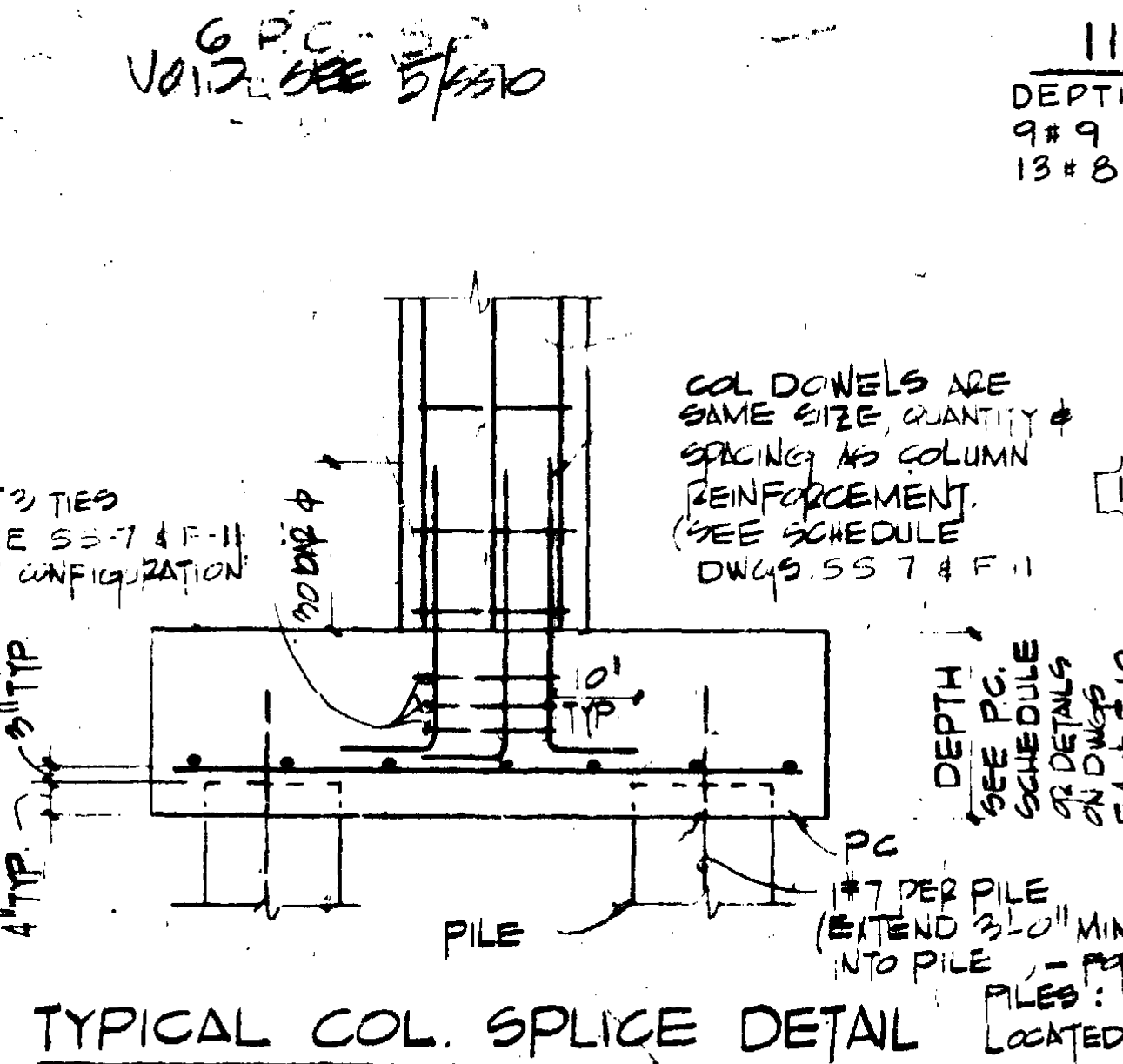
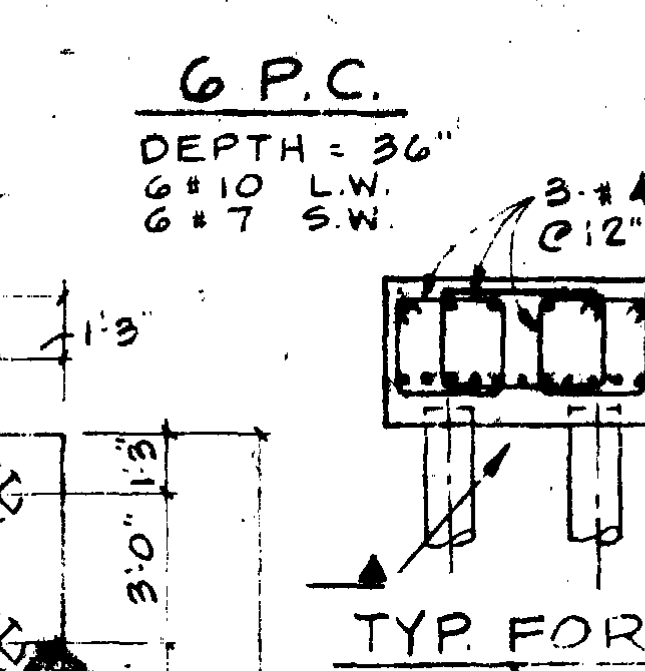
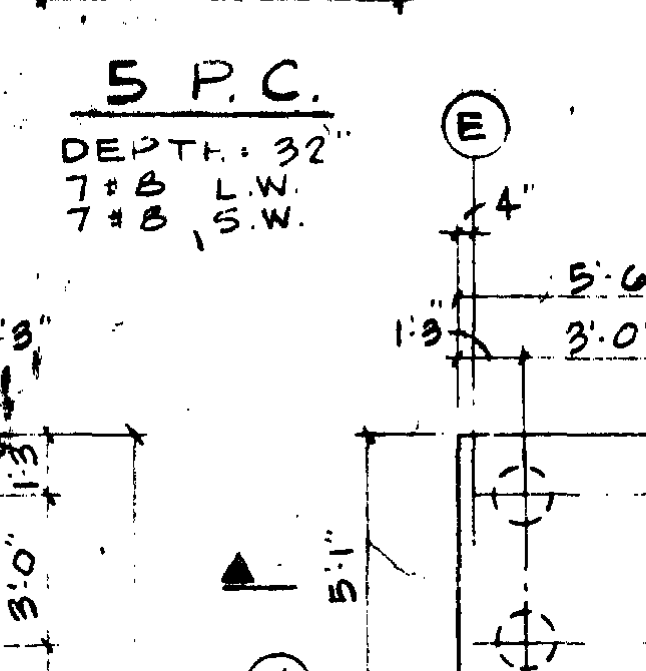
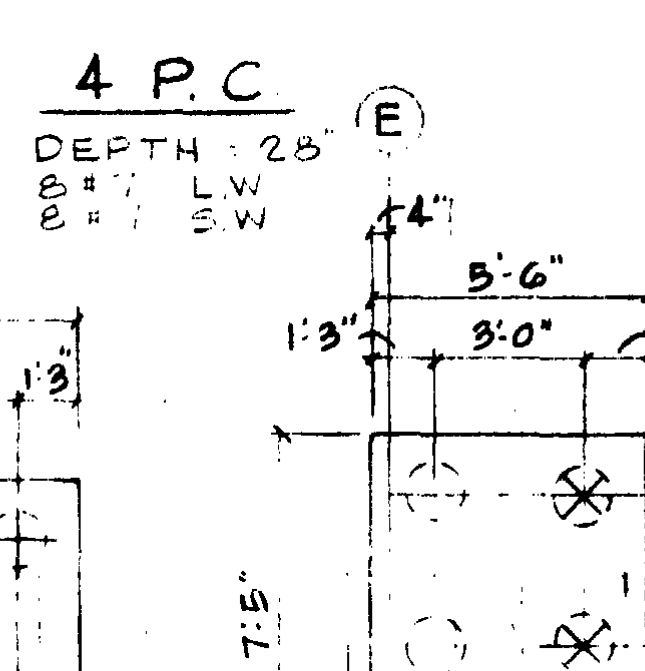
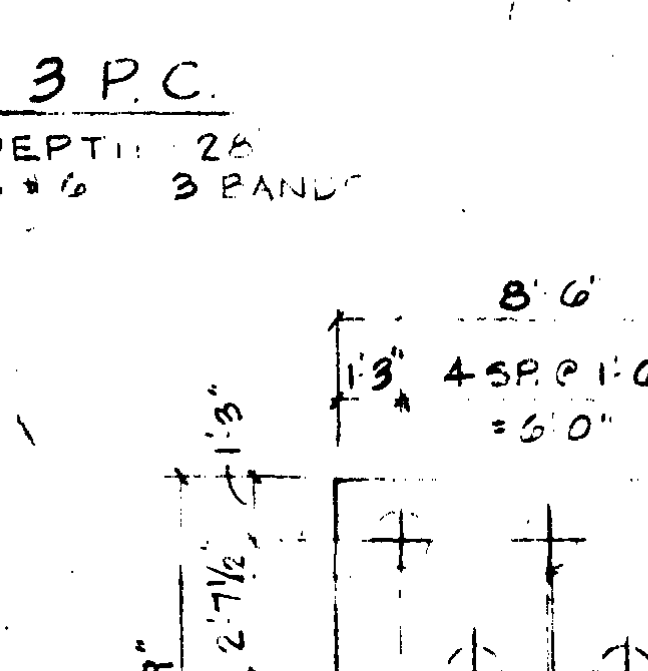
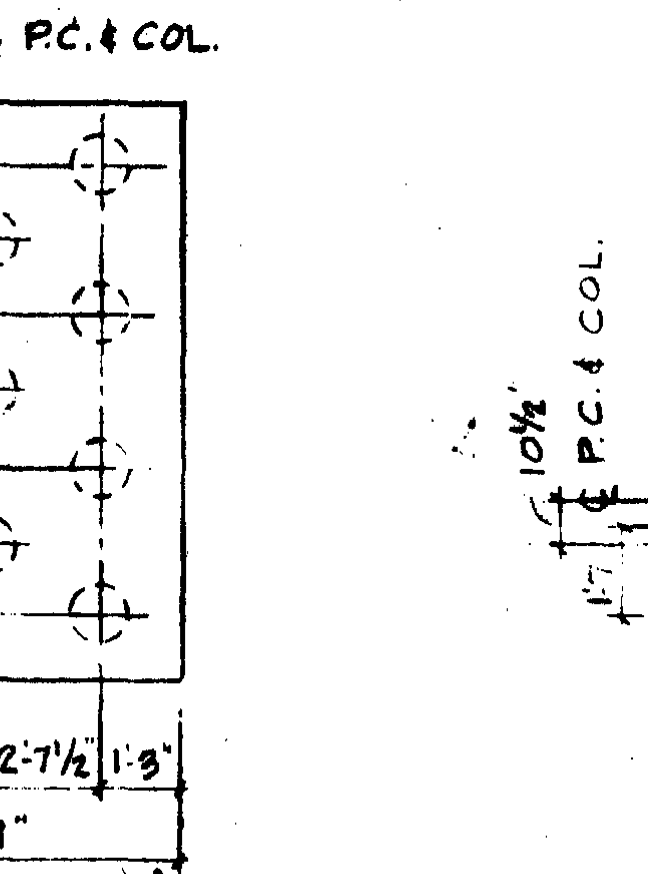
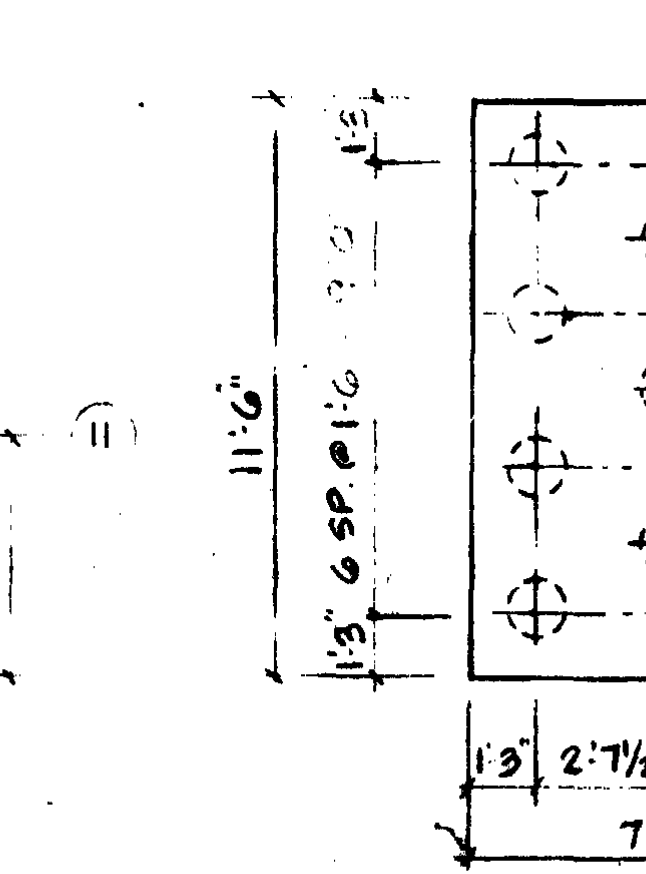
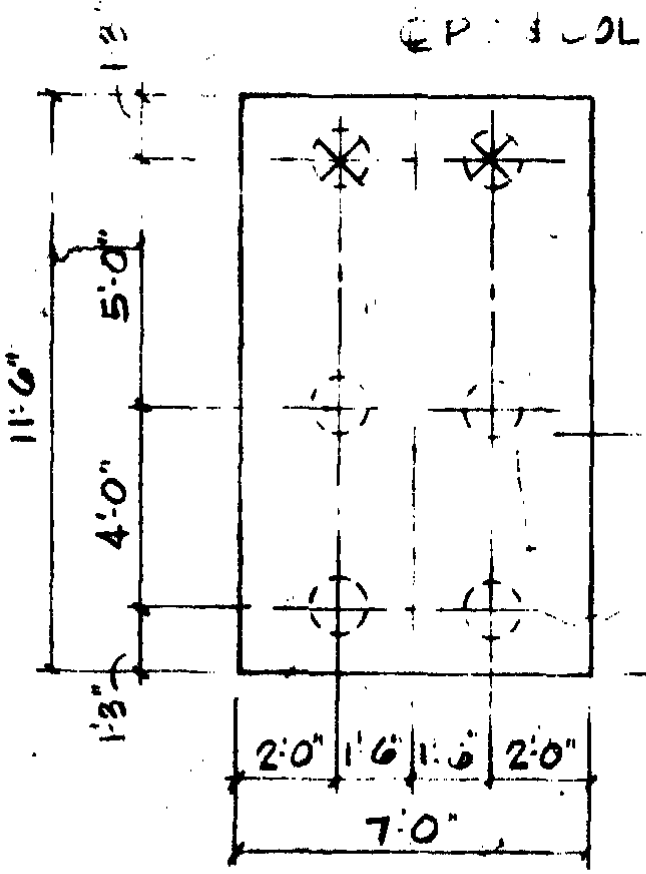
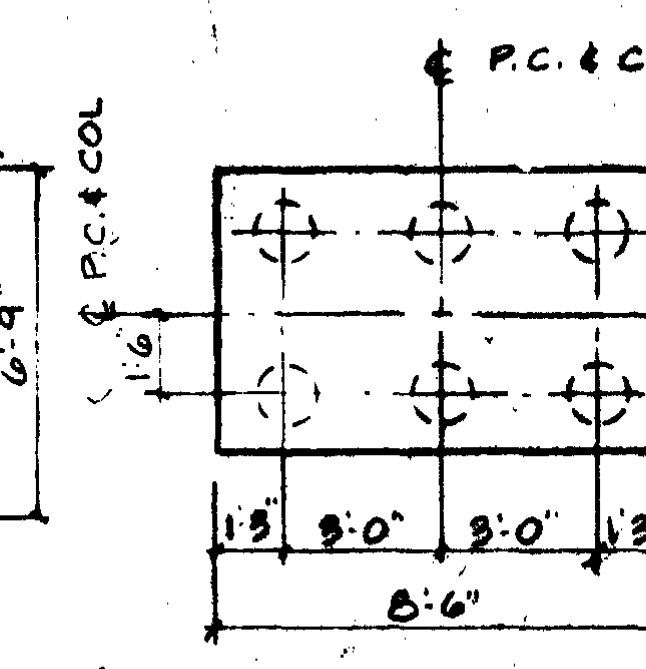
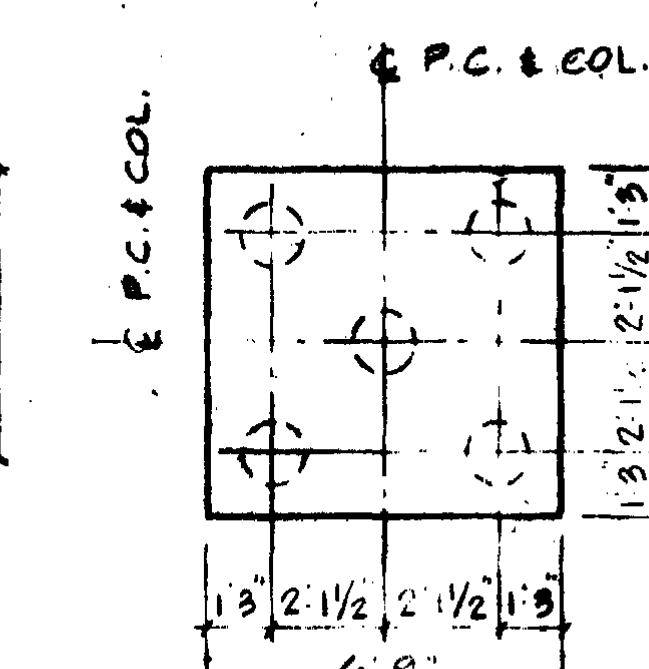
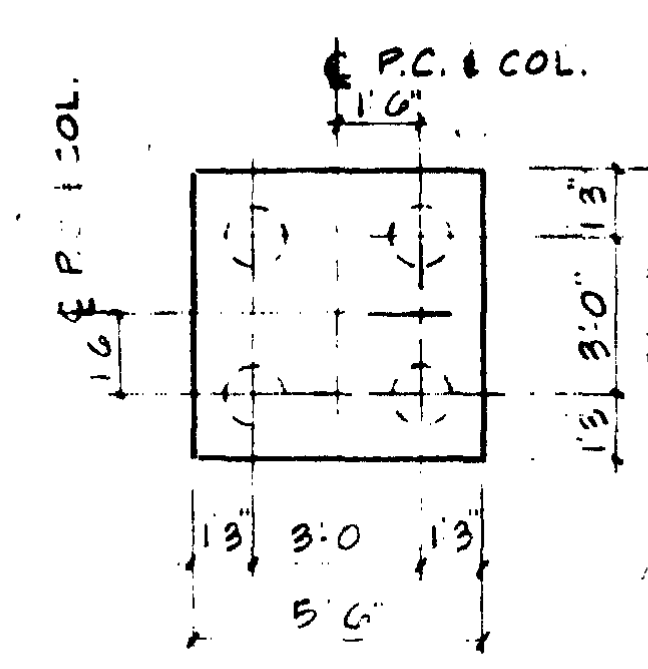
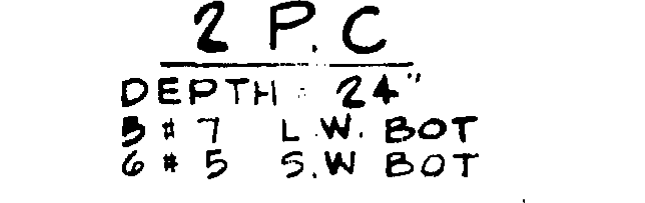
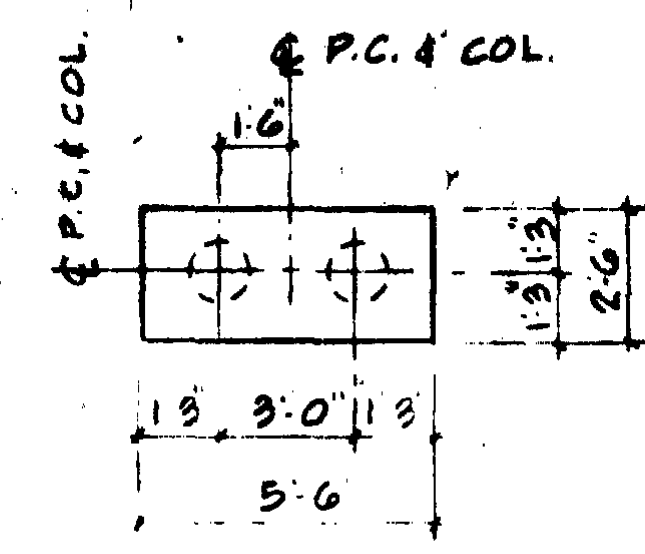
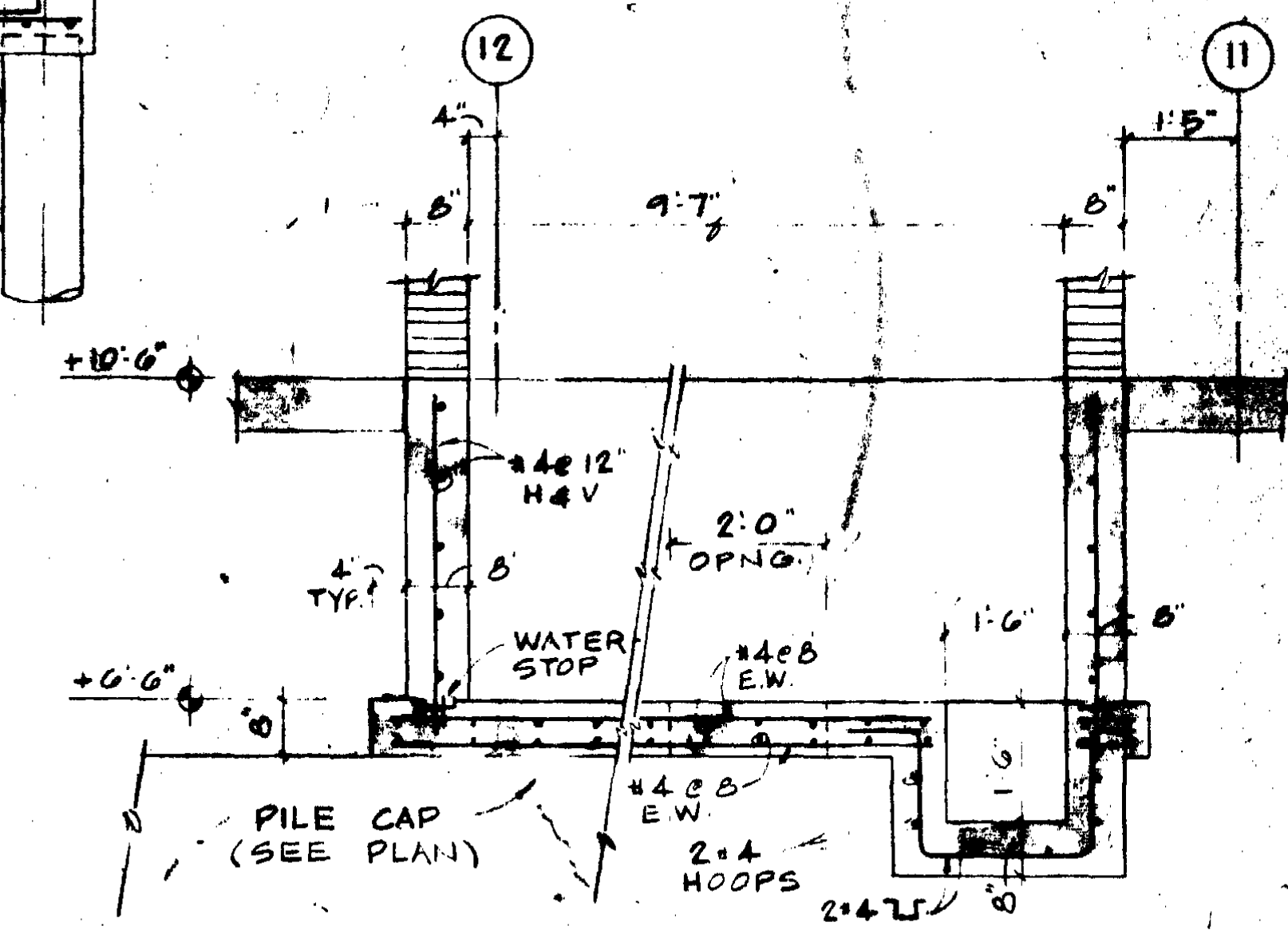
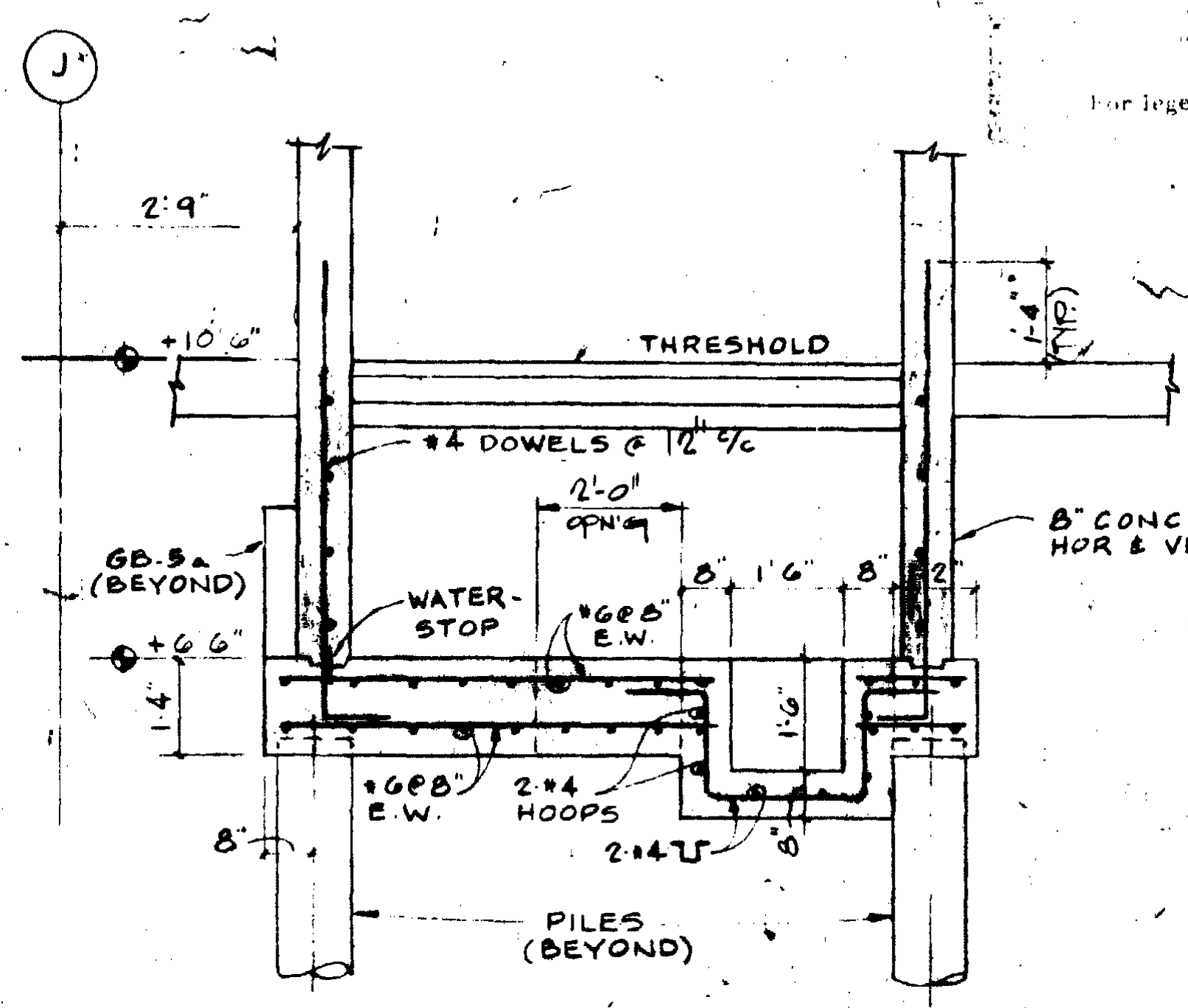
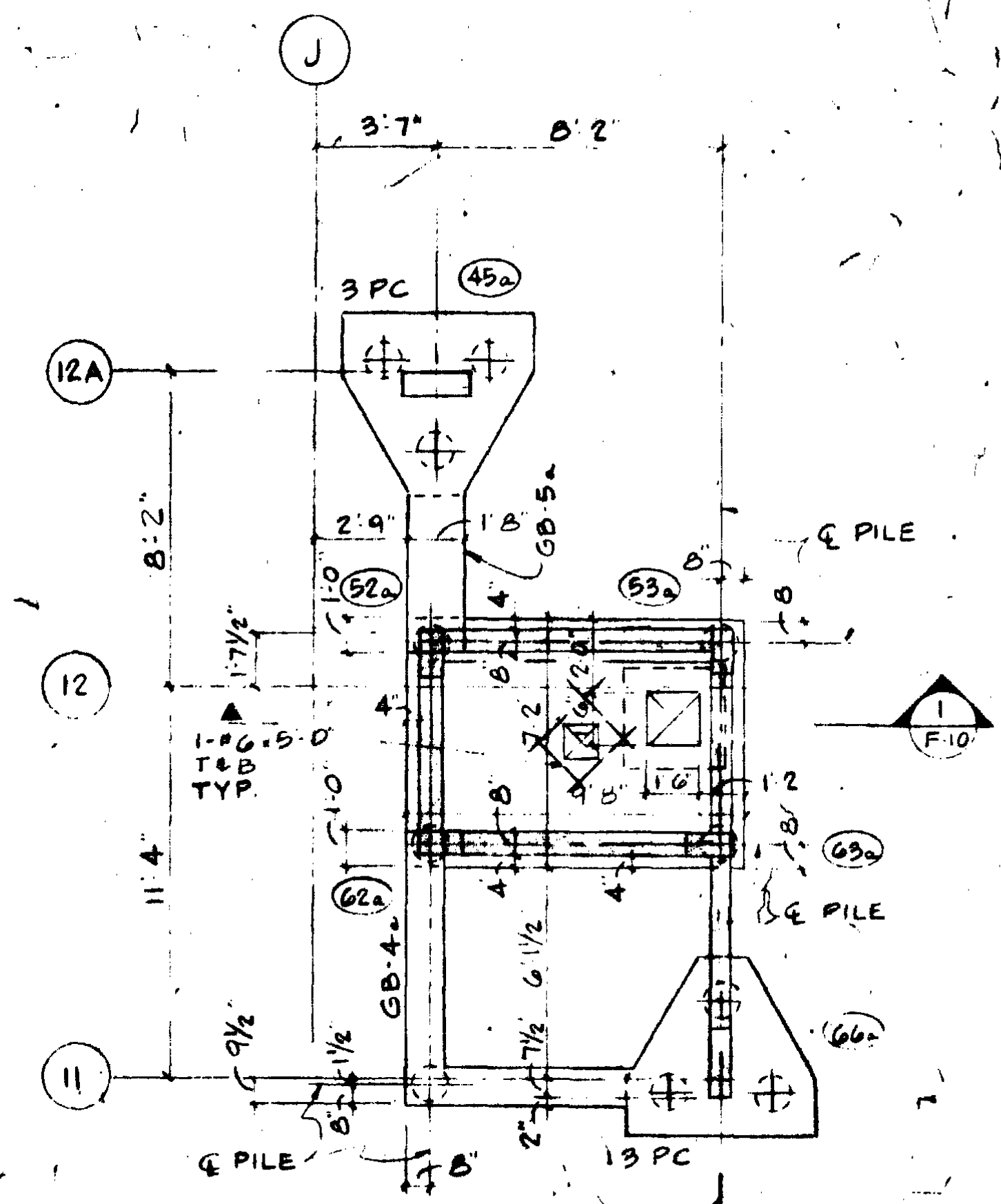
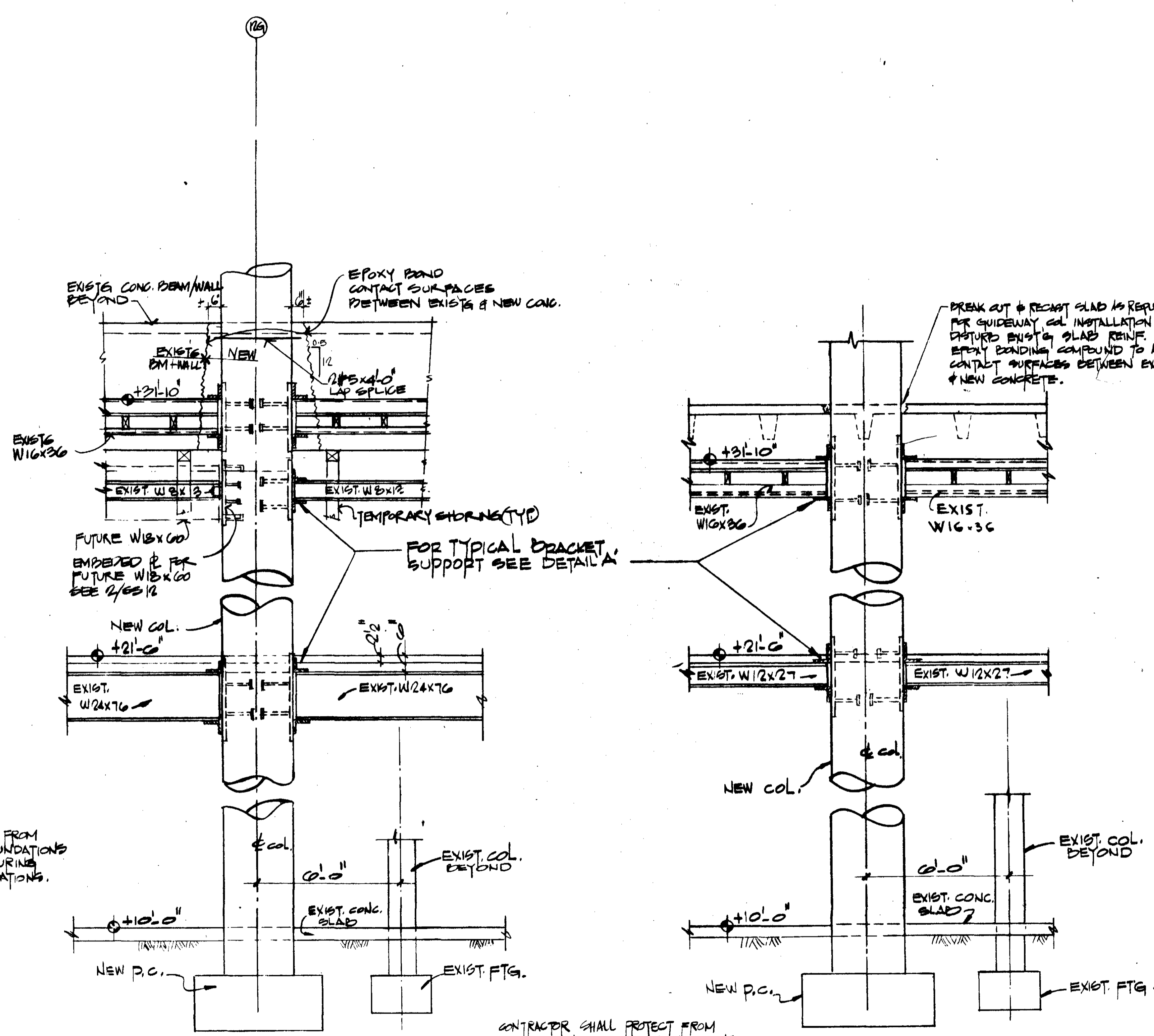
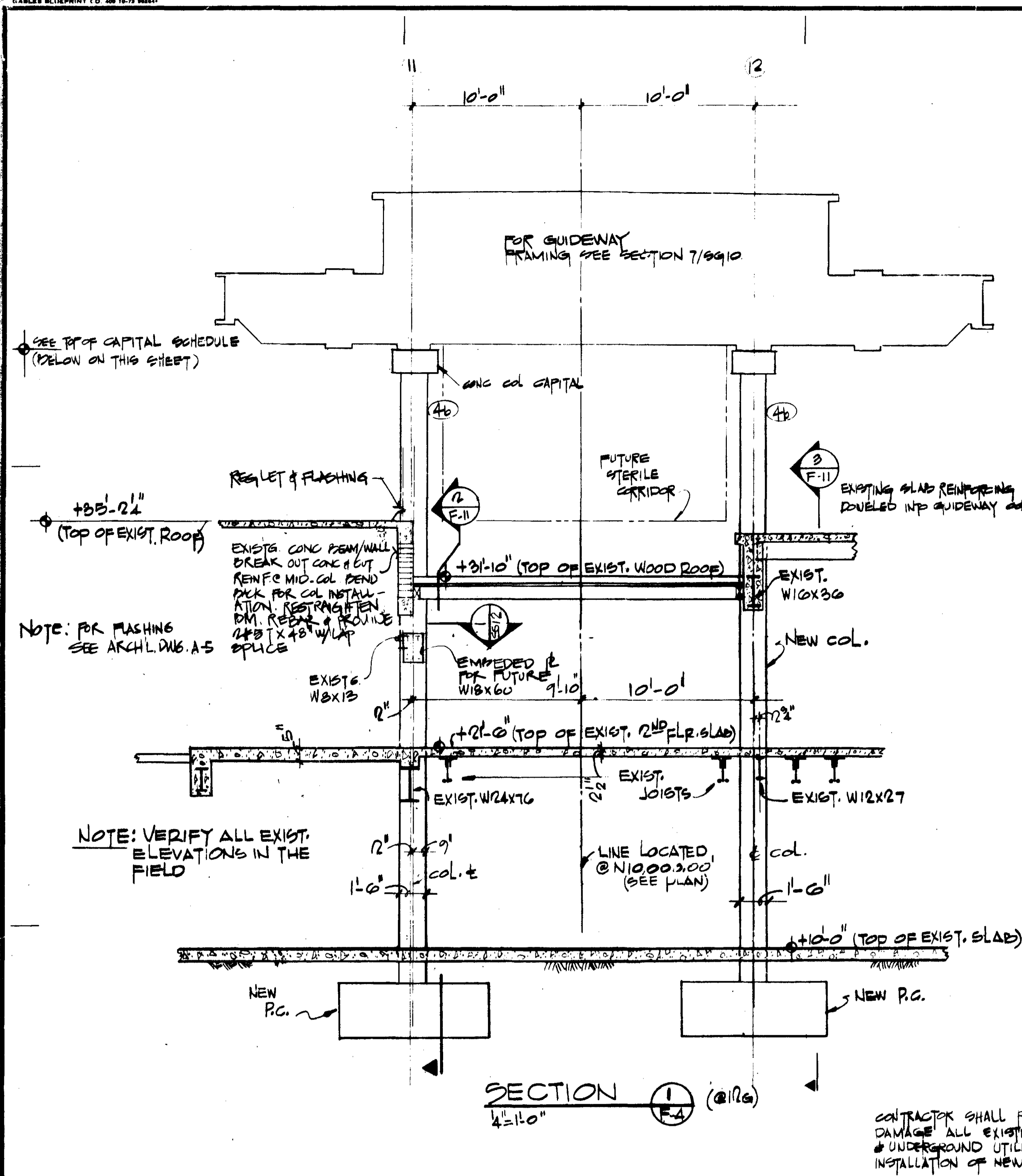


Table with columns: Date, Revisions, Sheet, Schedule I. Includes date JULY 10, 1975 and sheet number 10.

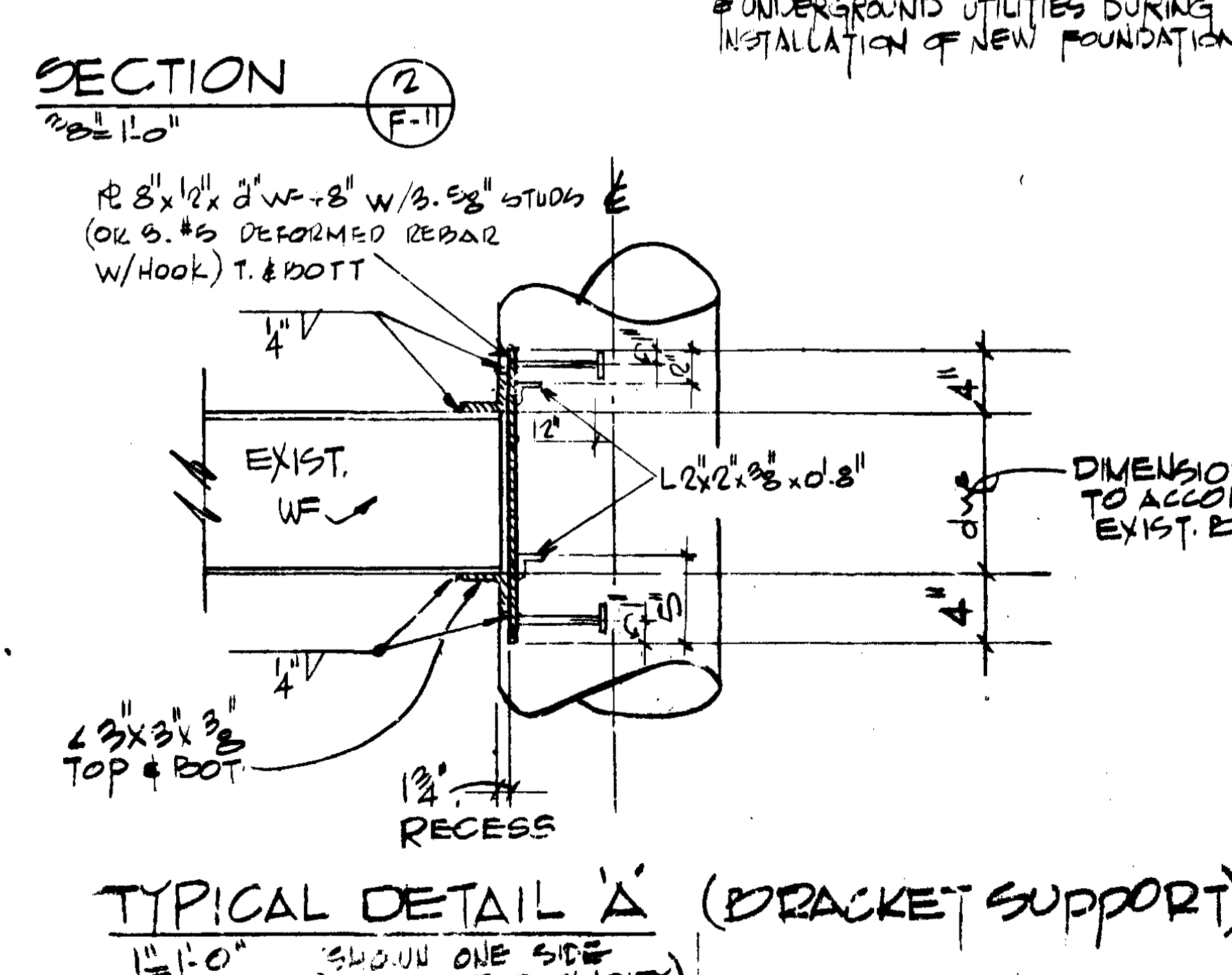
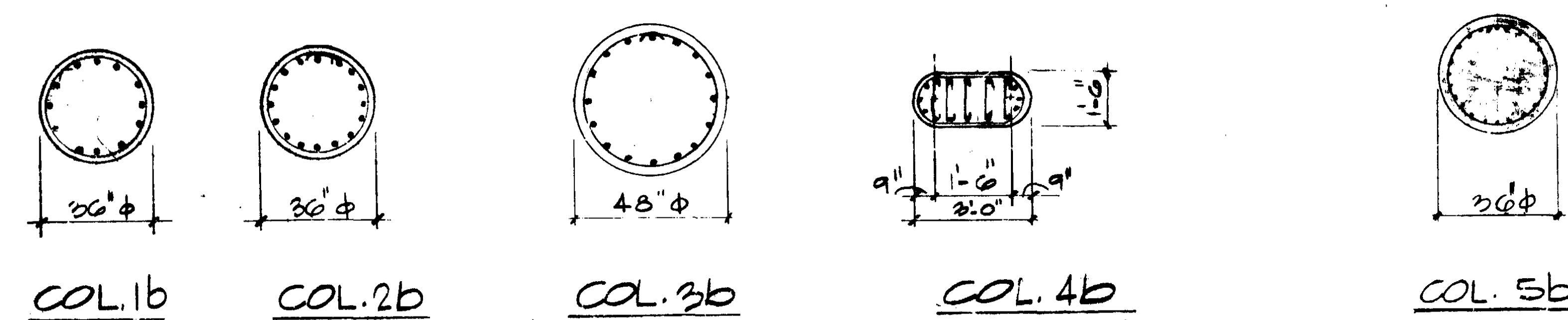


CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING FOUNDATIONS & UNDERGROUND UTILITIES DURING INSTALLATION OF NEW FOUNDATIONS.

CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING FOUNDATIONS & UNDERGROUND UTILITIES DURING INSTALLATION OF NEW FOUNDATIONS.

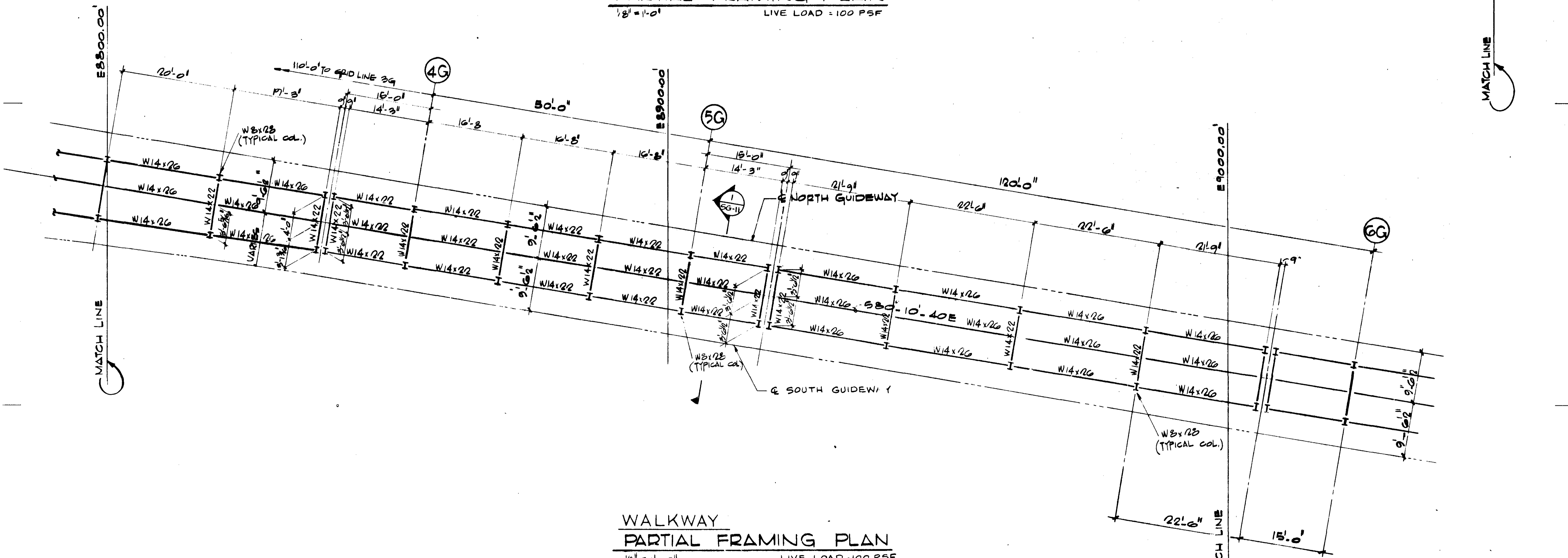
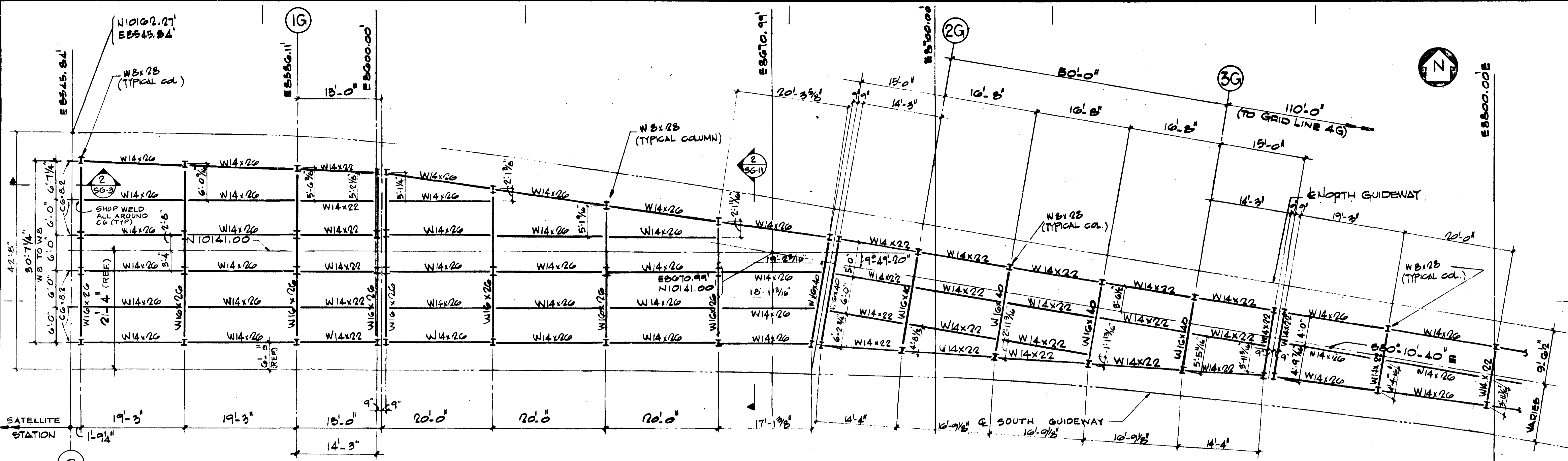
COLUMN SCHEDULE					
COLUMN MARK	(1b)	(2b)	(3b)	(4b)	(5b)
ANCHOR BOLTS (@ TOP OF COL. CAPITAL)	SEE DETAIL ON DWG. F-2	SEE DETAIL ON DWG. F-2	SEE DETAIL ON DWG. F-2	SEE DETAIL ON DWG. F-2	SEE DETAIL ON DWG. F-2
REINFC.	3#4 @ 12" ON CENTER	3#4 @ 12" ON CENTER	3#4 @ 12" ON CENTER	3#4 @ 12" ON CENTER	3#4 @ 12" ON CENTER
Top of P.C.	4'-0" VERT. @ 4#3 @ 12" TIES	4'-0" VERT. @ 4#3 @ 12" TIES	4'-0" VERT. @ 4#3 @ 12" TIES	4'-0" VERT. @ 4#3 @ 12" TIES	4'-0" VERT. @ 4#3 @ 12" TIES
DOWELS TO BE SAME SIZE & NO. AS COL. MAIN REINFC.					

ELEVATION - TOP OF CAPITAL												
GRID LINE	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
NORTH	+27'-4"	+30'-9"	+32'-7 1/2"	+36'-8 1/8"	+35'-6 5/8"	+42'-5 7/8"	+44'-5 1/8"	+45'-7 1/2"	+45'-7 1/2"	+43'-4 1/2"	+43'-5 1/2"	+44'-10 7/8"
SOUTH	+27'-4"	+30'-8 3/4"	+32'-7 3/8"	+36'-8 1/8"	+38'-6 3/8"	+42'-5 7/8"	+44'-5 1/8"	+45'-7 1/2"	+45'-7 1/2"	+43'-6 3/8"	+43'-5 3/8"	+44'-11 7/8"



SATELLITE TRANSIT SHUTTLE
 MIAMI INTERNATIONAL AIRPORT
 DADE COUNTY AVIATION DEPARTMENT
 D.C.A.D. CONTRACT 4-14-78-B

GUIDEWAY SECTIONS AND DETAILS	Date	July 10 1975
Scale: AS SHOWN	Revisors	At 2:00 PM, JUNE 19
Sheet	F II SCHEDULE I	
210-9		



NOTE: DIMENSIONS SHOWN ARE IN HORIZONTAL PLANE. SEE TABLE (SHEET SG-6) TO DETERMINE TRUE DIMENSIONS. SHOP DRWG BY MUESELMAN STEEL ARE A VALUABLE SUPPLEMENT.

HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

Mr. J. Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2760 Douglas Road, Coral Gables, Florida 33134.

GUIDEWAY STRUCTURE PLAN SATELLITE STATION 50 6 G Scale: AS NOTED	Date JULY 10, 1975
Revisions AS BUILT JUNE 71	

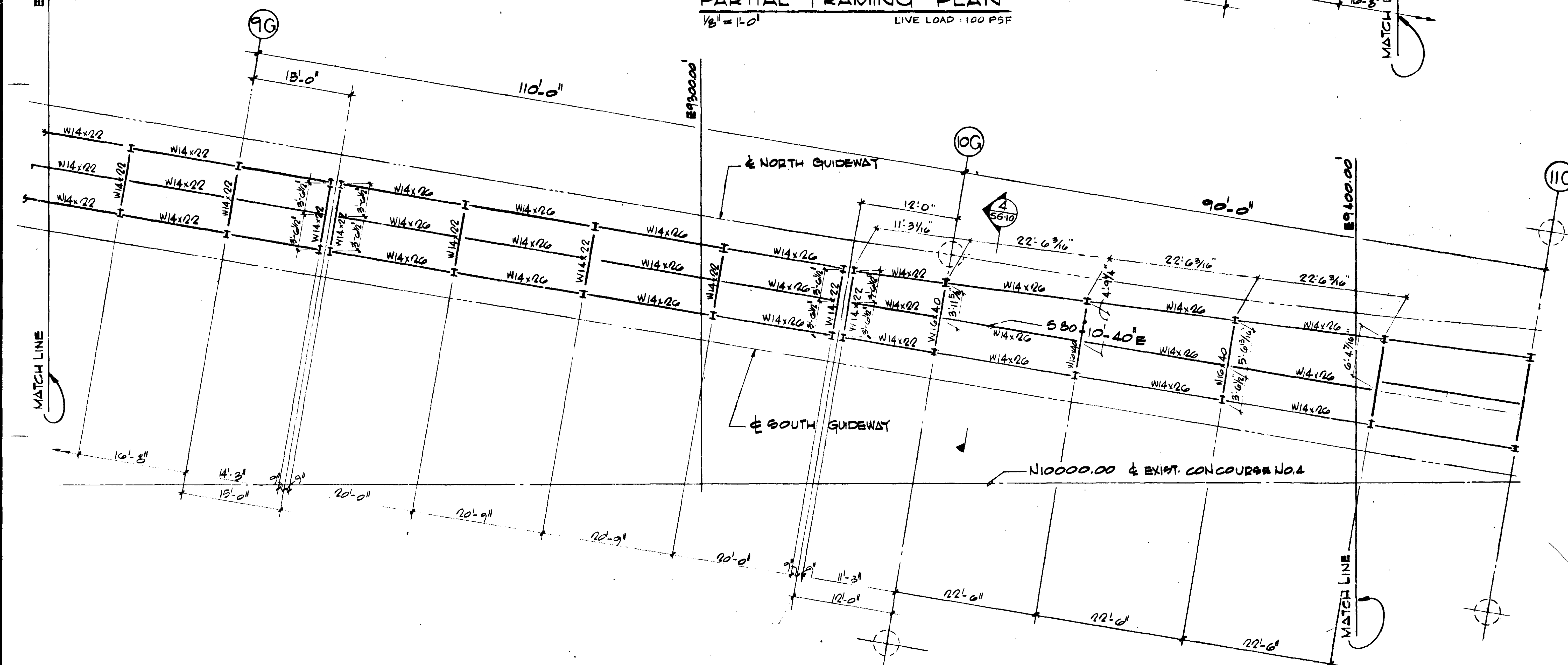
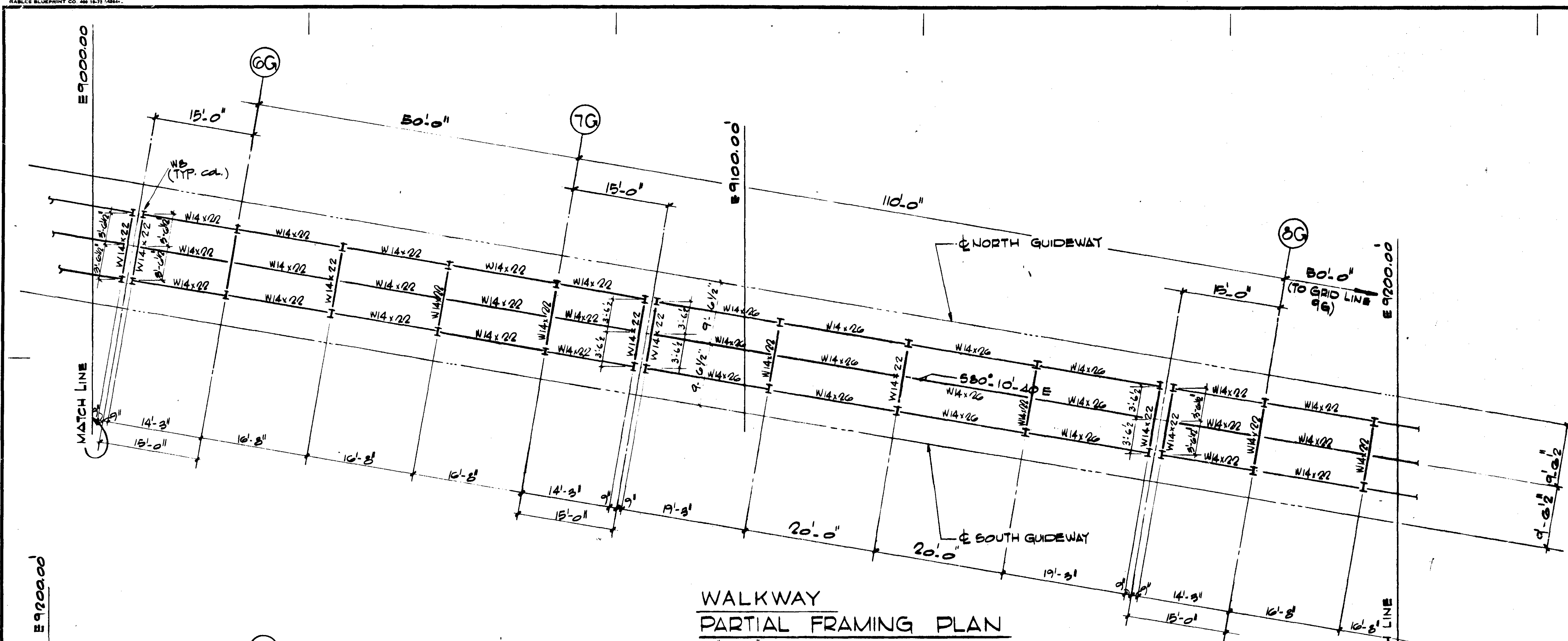
Sheet
SG-1
SCHEDULE II

218-9

HOR

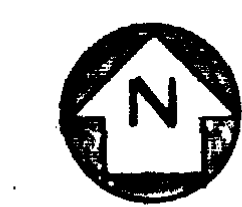
SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.



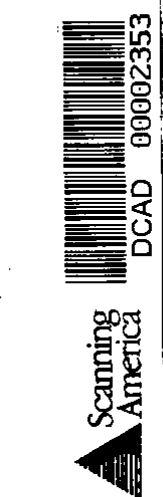
NOTE: DIMENSIONS SHOWN ARE IN HORIZONTAL PLANE. SEE TABLE (SHEET 66.6) TO DETERMINE TRUE DIMENSIONS

WALKWAY PARTIAL FRAMING PLAN
1/2" = 1'-0"
LIVE LOAD: 100 PSF



GUIDEWAY STRUCTURE PLAN WALKWAY PARTIAL FRAMING PLAN Scale: AS NOTED	Date JULY 10, 1975
Revisions AS BUILT JUNE 1979	

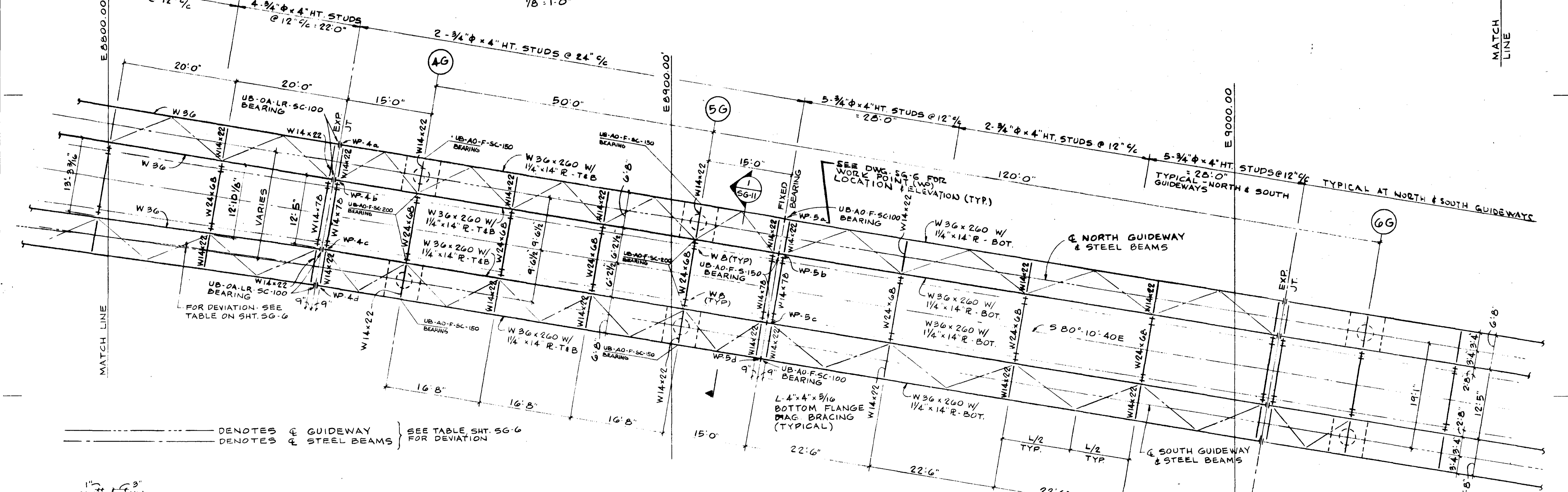
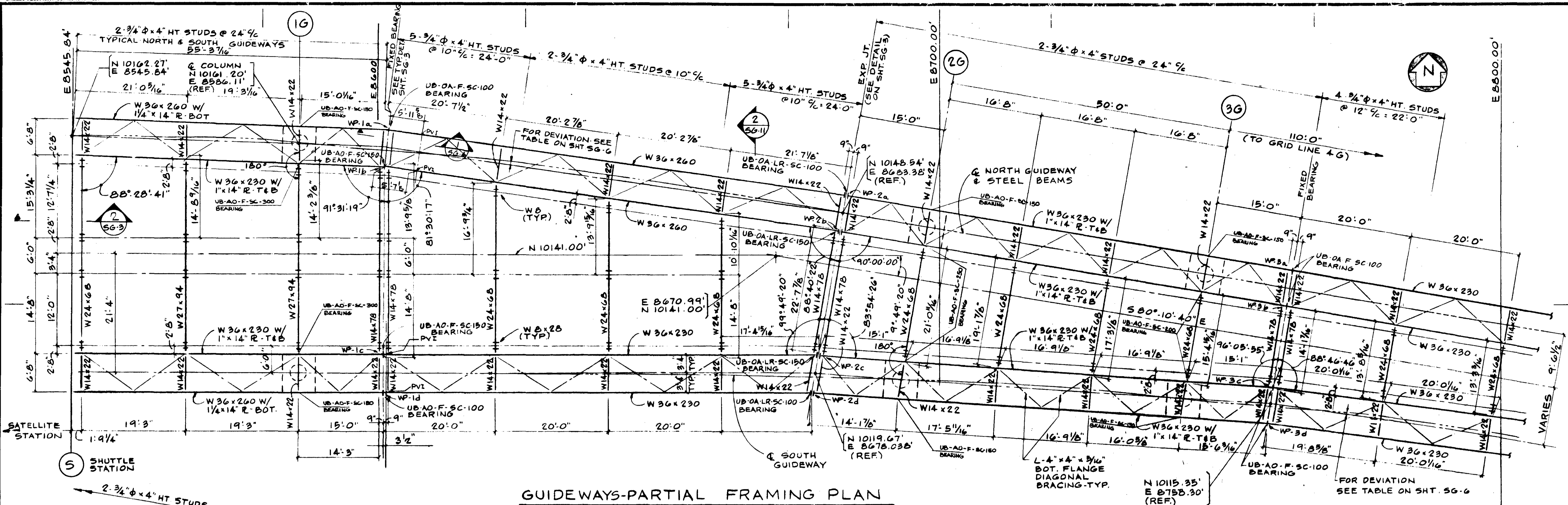
Sheet SG-2 SCHEDULE II



HOR

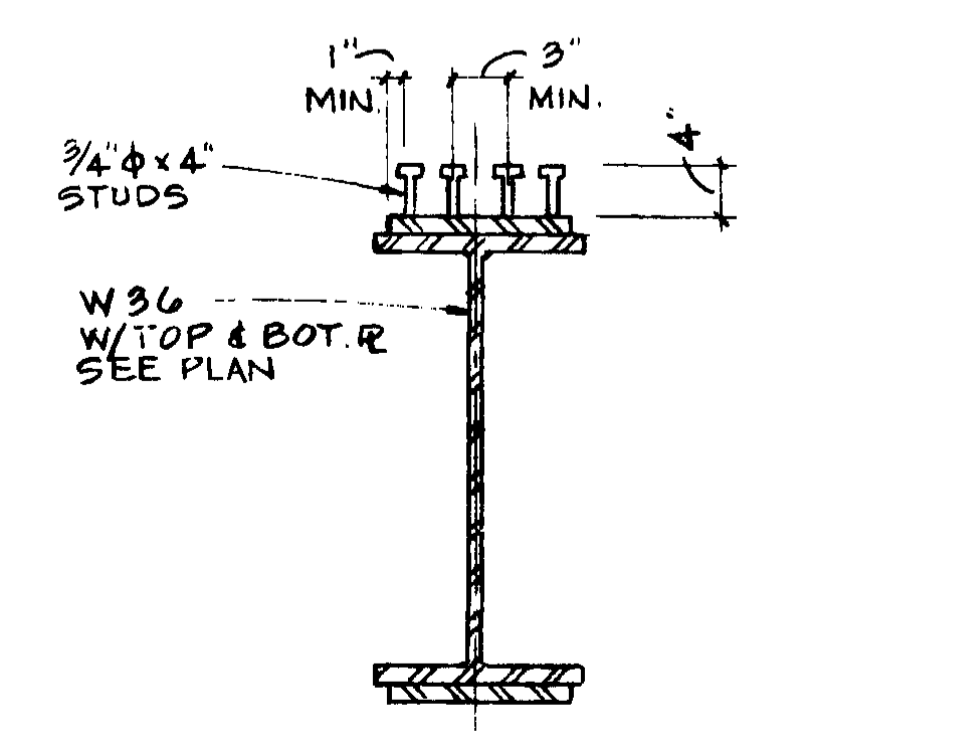
SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-28

Harry, Cppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.



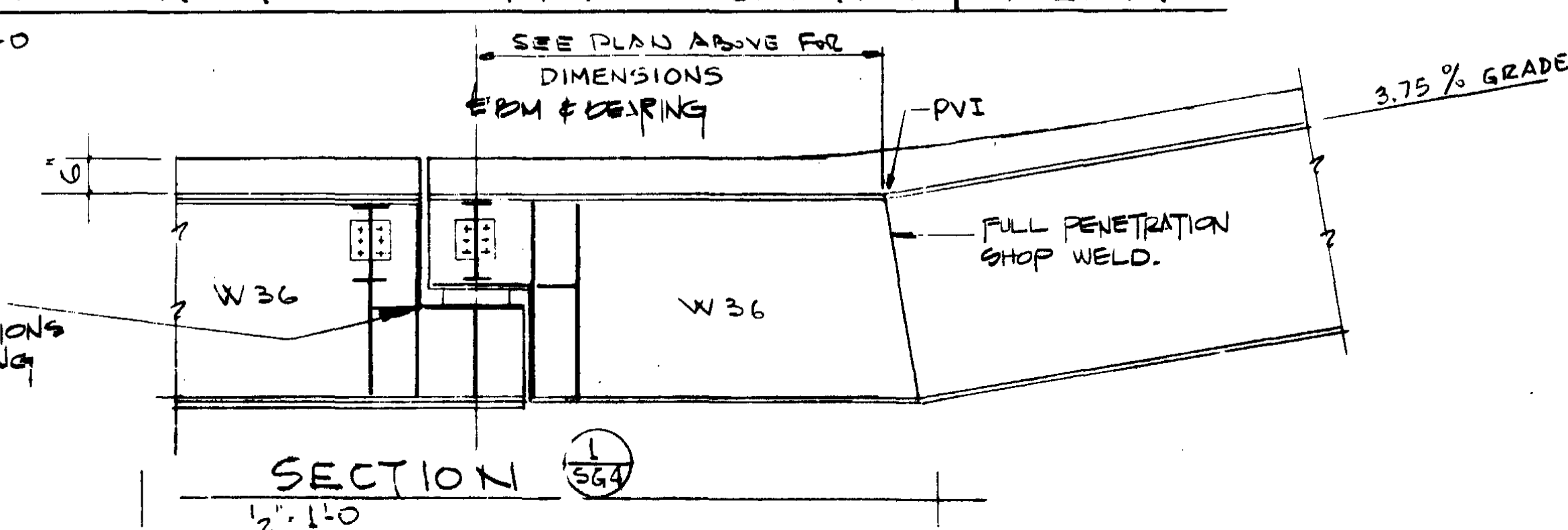
--- DENOTES GUIDEWAY
--- DENOTES STEEL BEAMS

SEE TABLE SHT. SG-6 FOR DEVIATION



TYPICAL SHEAR STUD
INSTALLATION DETAIL
NO SCALE

FOR ADDITIONAL DETAILS OF BEARING PLATES & CONNECTIONS SEE TYPICAL FIXED BEARING DETAIL ON DWG. SG-3.

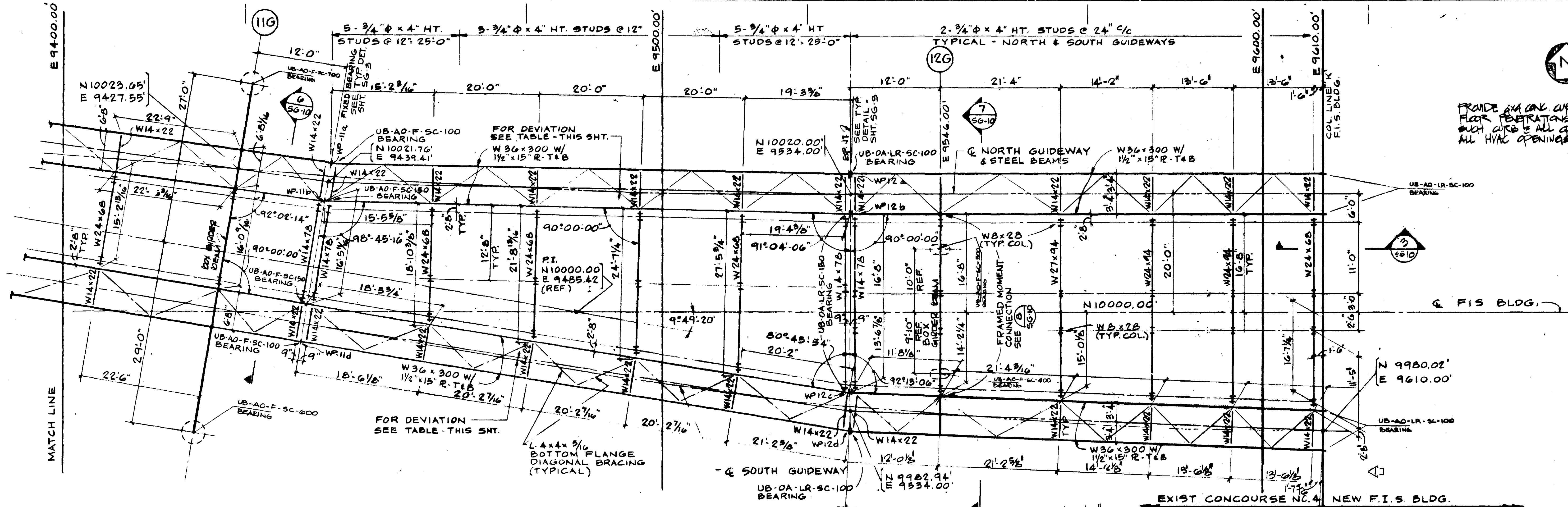


SECTION (1/2" = 1'-0")

NOTE: DIMENSIONS SHOWN ARE IN HORIZONTAL PLANE
SEE TABLE (SHEET SG-6) TO DETERMINE TRUE DIMENSIONS.

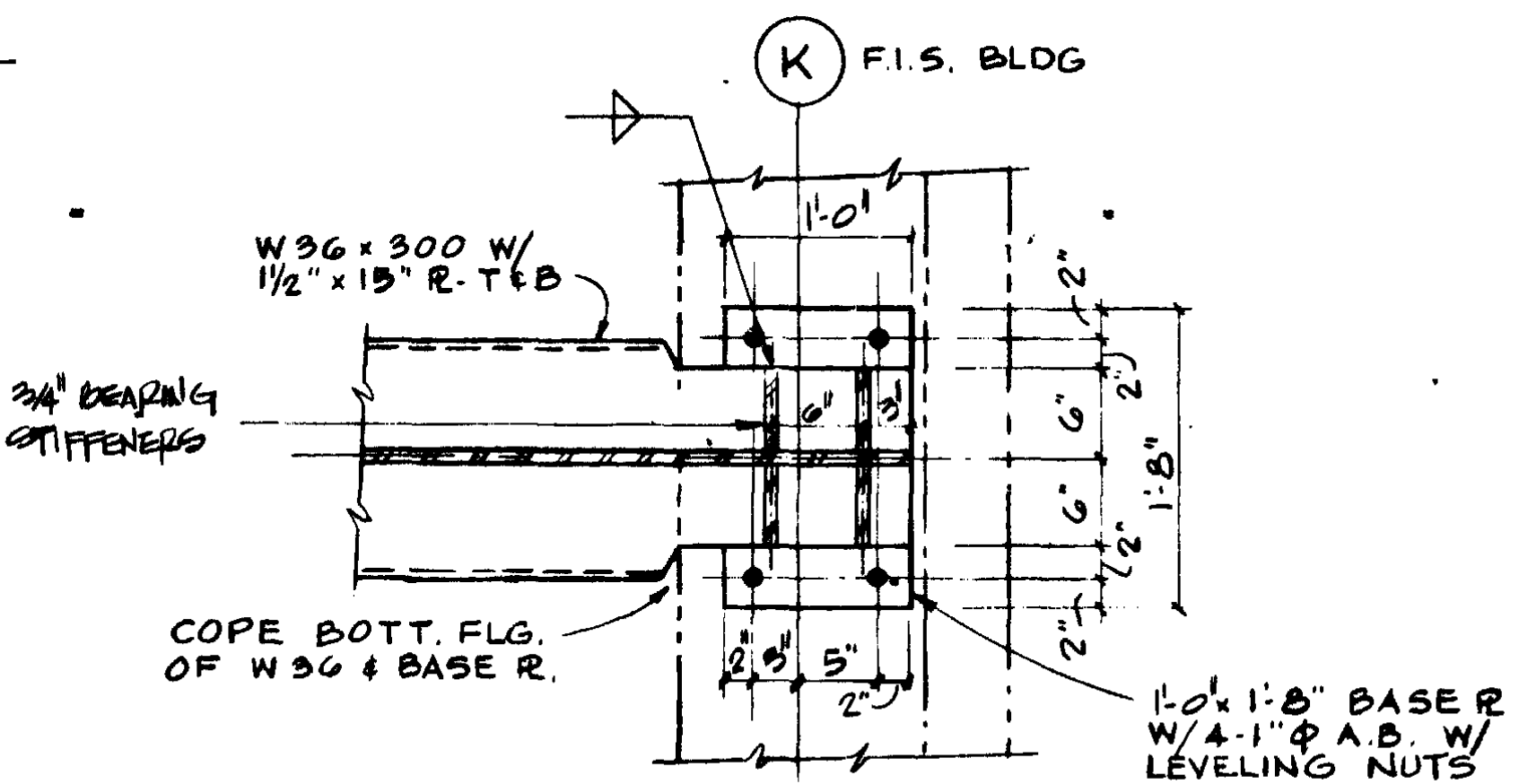
NOTE: INSTALL ON STEEL FOR RUNNING SURFACES (SG-3) 3/4" LONG SHEAR STUDS AS PER DETAIL THIS SHEET USING 2" STUDS ON 24" C AS DIRECTED BY FIELD REP.

DATE	JULY 10, 1975
REVISIONS	AS BUILT JUNE 74
SHEET	SG-4
SCHEDULE	II

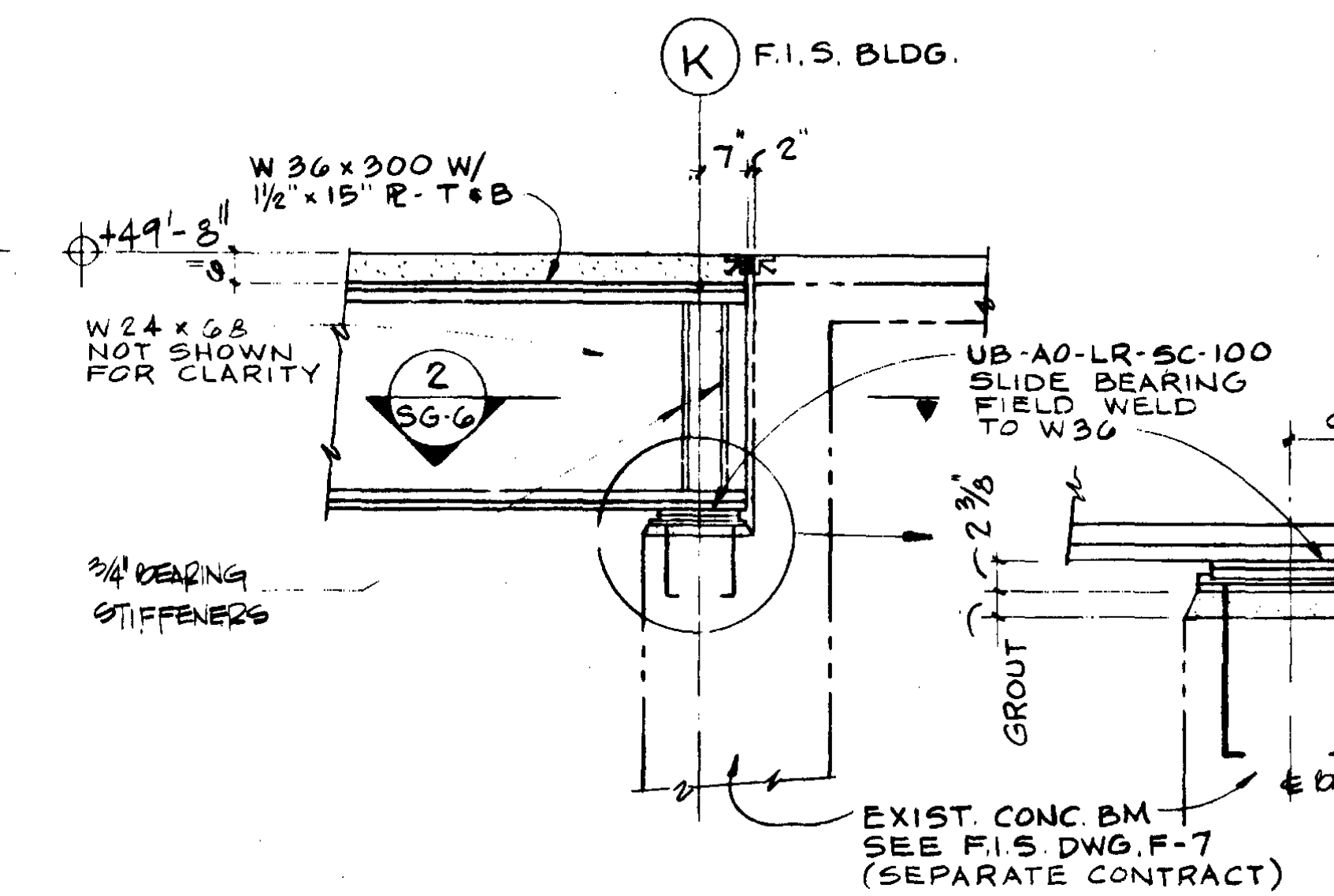


GUIDEWAYS - PARTIAL FRAMING PLAN
1/8" = 1'-0"

--- DENOTES & GUIDEWAY
--- DENOTES & STEEL BEAMS



VOID - SEE 2/5/10



VOID - SEE 2/5/10

HORIZONTAL DEVIATION (FROM & STEEL TRACK BEAMS TO & GUIDEWAY)				
LOCATION	COORDINATE @ BMS		GUIDEWAY STATION (FT)	DEVIATION (FT)
	NORTH	EAST		
NORTH GUIDEWAY - WEST	10G-12	10037.215	9326.387	8+02.62 .003 S
	-7	10036.536	9331.348	8+07.62 .164 S
	0	10035.588	9338.284	8+14.63 .390 S
	+10	10034.233	9348.142	8+24.64 .672 S
	+20	10032.879	9358.100	8+34.65 .890 S
	+30	10031.524	9368.008	8+44.65 1.020 S
	+40	10030.170	9377.915	8+54.64 1.056 S
	+50	10028.815	9387.823	8+64.63 .991 S
	+60	10027.461	9397.731	8+74.62 .826 S
	+70	10026.106	9407.639	8+84.61 .561 S
	+80	10024.752	9417.547	8+94.60 .196 S
	+90	10023.398	9427.455	9+04.59 .271 N
	+100	10022.044	9437.363	9+14.58 .656 N
	+110	10020.690	9447.271	9+24.57 .941 N
	+120	10019.336	9457.179	9+34.56 .974 N
SOUTH GUIDEWAY - WEST	10G+0	10119.667	8586.110	0+57.33 .000
	+5	10119.667	8591.110	0+62.33 .000
	+15	10119.667	8601.110	0+72.33 .000
	+25	10119.667	8611.110	0+82.33 .000
	+35	10119.667	8621.110	0+92.33 .000
	+45	10119.667	8631.110	1+02.33 .000
	+55	10119.667	8641.110	1+12.33 .009 S
	+65	10119.667	8651.110	1+22.33 .045 S
	+75	10119.667	8661.110	1+32.33 .129 S
	+85	10119.667	8671.110	1+42.33 .281 S
	+95	10119.667	8681.110	1+52.33 .433 S
	+105	10119.667	8691.110	1+62.33 .585 S
	+115	10119.667	8701.110	1+72.33 .737 S
	+125	10119.667	8711.110	1+82.33 .889 S
	NORTH GUIDEWAY - EAST	11G-0	10119.667	8671.110
+5		10119.667	8676.110	1+47.33 .433 S
+15		10119.667	8686.110	1+57.33 .585 S
+25		10119.667	8696.110	1+67.33 .737 S
+35		10119.667	8706.110	1+77.33 .889 S
+45		10119.667	8716.110	1+87.33 1.041 S
+55		10119.667	8726.110	1+97.33 1.193 S
+65		10119.667	8736.110	2+07.33 1.345 S
+75		10119.667	8746.110	2+17.33 1.497 S
+85		10119.667	8756.110	2+27.33 1.649 S
+95		10119.667	8766.110	2+37.33 1.801 S
+105		10119.667	8776.110	2+47.33 1.953 S
+115		10119.667	8786.110	2+57.33 2.105 S
+125		10119.667	8796.110	2+67.33 2.257 S
SOUTH GUIDEWAY - EAST		12G-12	9982.943	9534.000
	-7	9982.750	9539.005	10+21.61 .359 N
	0	9982.479	9544.000	10+26.60 .001 N
	+10	9982.102	9549.003	10+31.59 .380 S
	+20	9981.705	9554.005	10+36.58 .607 S
	+30	9981.311	9559.007	10+41.57 .681 S
	+40	9980.931	9564.009	10+46.56 .605 S
	+50	9980.544	9569.011	10+51.55 .407 S
	+60	9980.157	9574.013	10+56.54 .117 S
	+64.05	9980.000	9579.015	10+61.53 .000
	+74.05	9979.613	9584.017	10+66.52 .317 S
	+84.05	9979.226	9589.019	10+71.51 .634 S
	+94.05	9978.839	9594.021	10+76.50 .951 S
	+104.05	9978.452	9599.023	10+81.49 .268 S

HORIZONTAL DEVIATION (FROM & STEEL TRACK BEAMS TO & GUIDEWAY)				
LOCATION	COORDINATE @ BMS		GUIDEWAY STATION (FT)	DEVIATION (FT)
	NORTH	EAST		
NORTH GUIDEWAY - WEST	10G-12	10037.215	9326.387	8+02.62 .003 S
	-7	10036.536	9331.348	8+07.62 .164 S
	0	10035.588	9338.284	8+14.63 .390 S
	+10	10034.233	9348.142	8+24.64 .672 S
	+20	10032.879	9358.100	8+34.65 .890 S
	+30	10031.524	9368.008	8+44.65 1.020 S
	+40	10030.170	9377.915	8+54.64 1.056 S
	+50	10028.815	9387.823	8+64.63 .991 S
	+60	10027.461	9397.731	8+74.62 .826 S
	+70	10026.106	9407.639	8+84.61 .561 S
	+80	10024.752	9417.547	8+94.60 .196 S
	+90	10023.398	9427.455	9+04.59 .271 N
	+100	10022.044	9437.363	9+14.58 .656 N
	+110	10020.690	9447.271	9+24.57 .941 N
	+120	10019.336	9457.179	9+34.56 .974 N
SOUTH GUIDEWAY - WEST	10G+0	10119.667	8586.110	0+57.33 .000
	+5	10119.667	8591.110	0+62.33 .000
	+15	10119.667	8601.110	0+72.33 .000
	+25	10119.667	8611.110	0+82.33 .000
	+35	10119.667	8621.110	0+92.33 .000
	+45	10119.667	8631.110	1+02.33 .000
	+55	10119.667	8641.110	1+12.33 .009 S
	+65	10119.667	8651.110	1+22.33 .045 S
	+75	10119.667	8661.110	1+32.33 .129 S
	+85	10119.667	8671.110	1+42.33 .281 S
	+95	10119.667	8681.110	1+52.33 .433 S
	+105	10119.667	8691.110	1+62.33 .585 S
	+115	10119.667	8701.110	1+72.33 .737 S
	+125	10119.667	8711.110	1+82.33 .889 S
	NORTH GUIDEWAY - EAST	11G-0	10119.667	8671.110
+5		10119.667	8676.110	1+47.33 .433 S
+15		10119.667	8686.110	1+57.33 .585 S
+25		10119.667	8696.110	1+67.33 .737 S
+35		10119.667	8706.110	1+77.33 .889 S
+45		10119.667	8716.110	1+87.33 1.041 S
+55		10119.667	8726.110	1+97.33 1.193 S
+65		10119.667	8736.110	2+07.33 1.345 S
+75		10119.667	8746.110	2+17.33 1.497 S
+85		10119.667	8756.110	2+27.33 1.649 S
+95		10119.667	8766.110	2+37.33 1.801 S
+105		10119.667	8776.110	2+47.33 1.953 S
+115		10119.667	8786.110	2+57.33 2.105 S
+125		10119.667	8796.110	2+67.33 2.257 S
SOUTH GUIDEWAY - EAST		12G-12	9982.943	9534.000
	-7	9982.750	9539.005	10+21.61 .359 N
	0	9982.479	9544.000	10+26.60 .001 N
	+10	9982.102	9549.003	10+31.59 .380 S
	+20	9981.705	9554.005	10+36.58 .607 S
	+30	9981.311	9559.007	10+41.57 .681 S
	+40	9980.931	9564.009	10+46.56 .605 S
	+50	9980.544	9569.011	10+51.55 .407 S
	+60	9980.157	9574.013	10+56.54 .117 S
	+64.05	9980.000	9579.015	10+61.53 .000
	+74.05	9979.613	9584.017	10+66.52 .317 S
	+84.05	9979.226	9589.019	10+71.51 .634 S
	+94.05	9978.839	9594.021	10+76.50 .951 S
	+104.05	9978.452	9599.023	10+81.49 .268 S

WORKING POINTS STEEL TRACK BEAMS			
WORKING POINT	TOP OF STEEL ELEVATION	COORDINATES	
		NORTH	EAST
WP-1a	30.83	10164.128	8601.401
	30.83	10157.453	8601.168
	30.83	10123.000	8601.110
WP-2a	33.68	10181.402	8683.488
	33.68	10145.320	8682.428
	33.68	10123.000	8678.055
WP-3a	36.72	10116.334	8677.839
	36.72	10138.248	8762.354
	36.72	10131.680	8761.216
WP-4a	39.72	10117.798	8758.596
	39.72	10111.144	8757.882
	39.72	10124.601	8841.182
WP-5a	42.72	10118.032	8840.045
	42.72	10105.797	8837.927
	42.72	10099.229	8836.789
WP-6a	45.72	10110.455	8920.009
	45.72	10104.387	8918.872
	45.72	10092.152	8916.754
WP-7a	48.66	10085.583	8915.617
	48.66	10095.602	9008.690
	48.66	10084.033	9007.553
WP-8a	46.10	10076.798	9005.435
	46.10	10070.230	9004.298
	46.10	10081.954	9087.517
WP-9a	48.66	10075.386	9086.380
	48.66	10069.151	9084.262
	48.66	10056.582	9083.125
WP-10a	49.17	10068.307	9166.345
	49.17	10061.738	9165.208
	49.17	10044.503	9163.090
WP-11a	49.17	10042.935	9161.953
	49.17	10054.059	9245.172
	49.17	10048.091	9244.035
WP-12a	49.17	10035.856	9241.917
	49.17	10029.287	9240.780
	49.17	10040.510	9326.897
WP-13a	49.17	10039.920	9325.877
	49.17	10021.696	9323.701
	49.17	10015.128	9322.563
WP-14a	49.17	10025.093	9439.665
	49.17	10018.435	9439.149
	49.17	10002.252	9436.013
WP-15a	49.17	9995.678	9434.909
	49.17	10023.333	9534.031
	49.17	10016.667	9533.969
WP-16a	49.17	9988.268	9534.314
	49.17	9979.618	9533.686

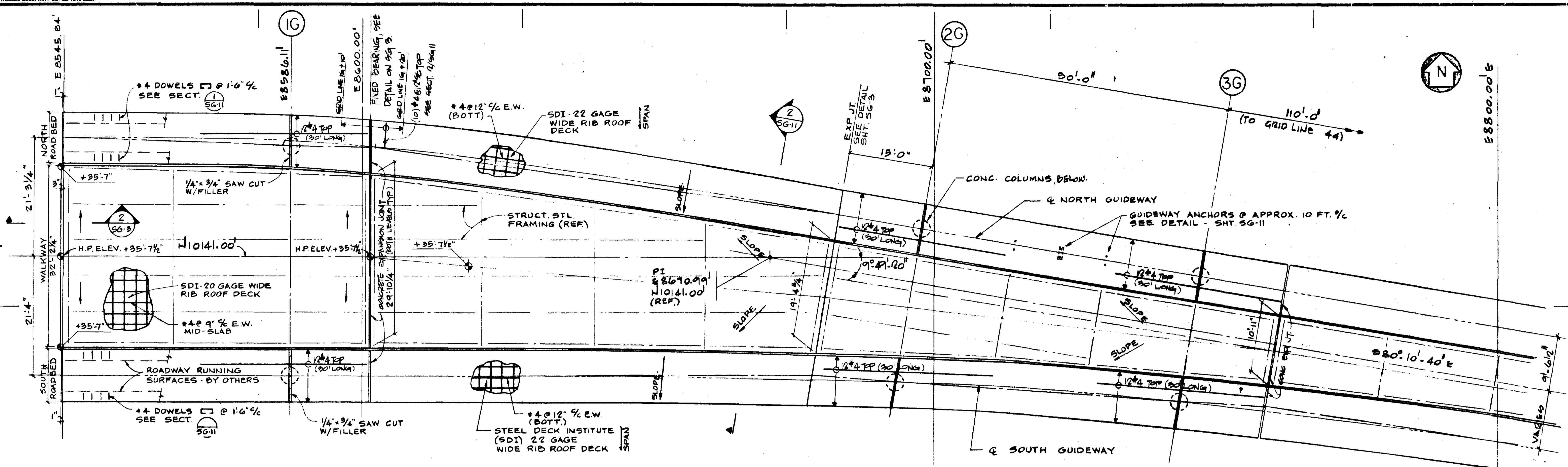
NOTE: DIMENSIONS SHOWN ARE IN HORIZONTAL PLANE SEE TABLE ABOVE TO DETERMINE TRUE DIMENSIONS

HOR

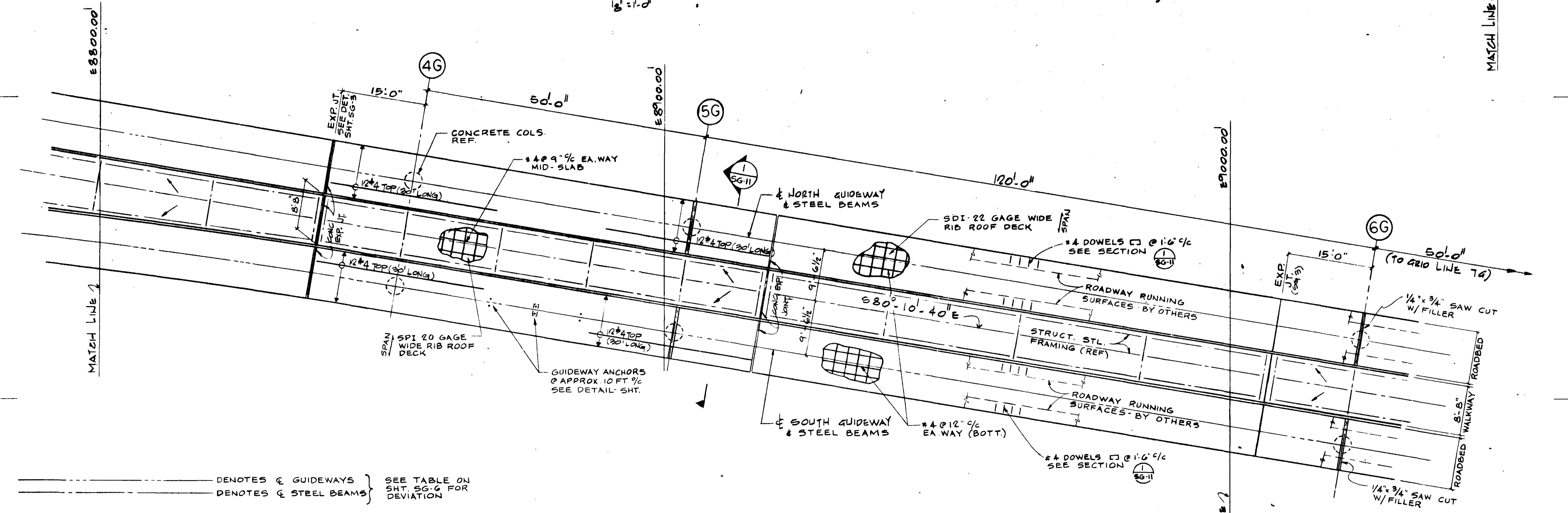
SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

GUIDEWAY STRUCTURE - PARTIAL FRAMING PLAN - SECTION 11 G TO F.I.S. BLDG. SCALE AS NOTED	Date	JULY 10, 1975
Revisors	AS CONSULT	JUNE 79

Sheet
SG-6
SCHEDULE II



PARTIAL PLAN
1/8"=1'-0"



PARTIAL PLAN
1/8"=1'-0"

HOR

SATELLITE TRANSIT SHUTTLE
 MIAMI INTERNATIONAL AIRPORT
 DADE COUNTY AVIATION DEPARTMENT
 D.C.A.D. CONTRACT 4-14-2B

Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.

GUIDEWAY STRUCTURE SLABS SATELLITE STATION TO 6G SCALE: AS NOTED	Date JULY 10, 1975
Revisions AS BUILT JUNE 79	

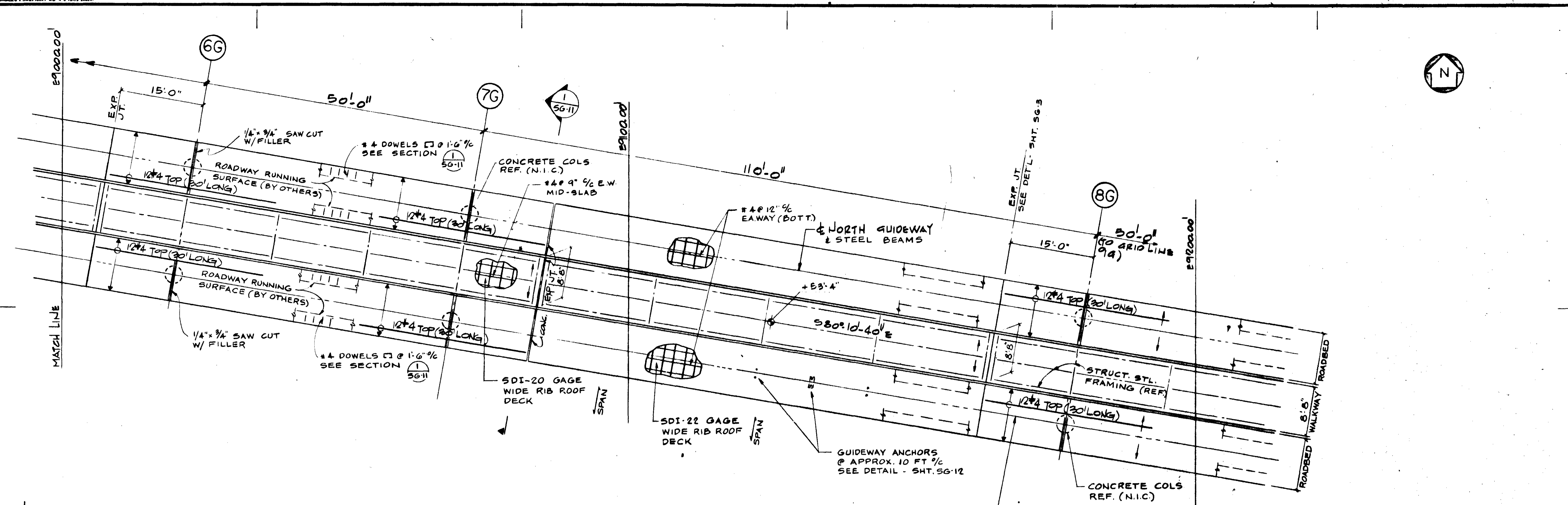
Sheet SG-7 SCHEDULE II

218-9

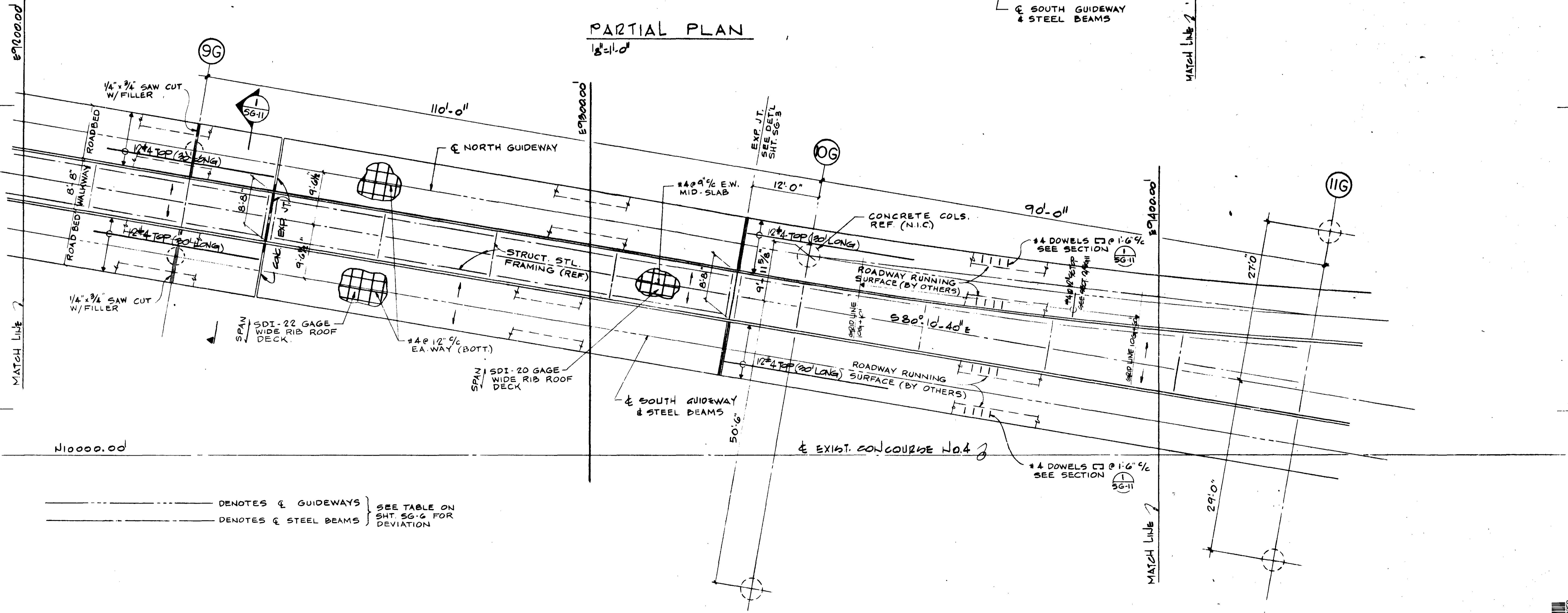
HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.



PARTIAL PLAN
18'-11.0"



PARTIAL PLAN
18'-11.0"

----- DENOTES & GUIDEWAYS } SEE TABLE ON
 ----- DENOTES & STEEL BEAMS } SHT. SG-6 FOR
 DEVIATION

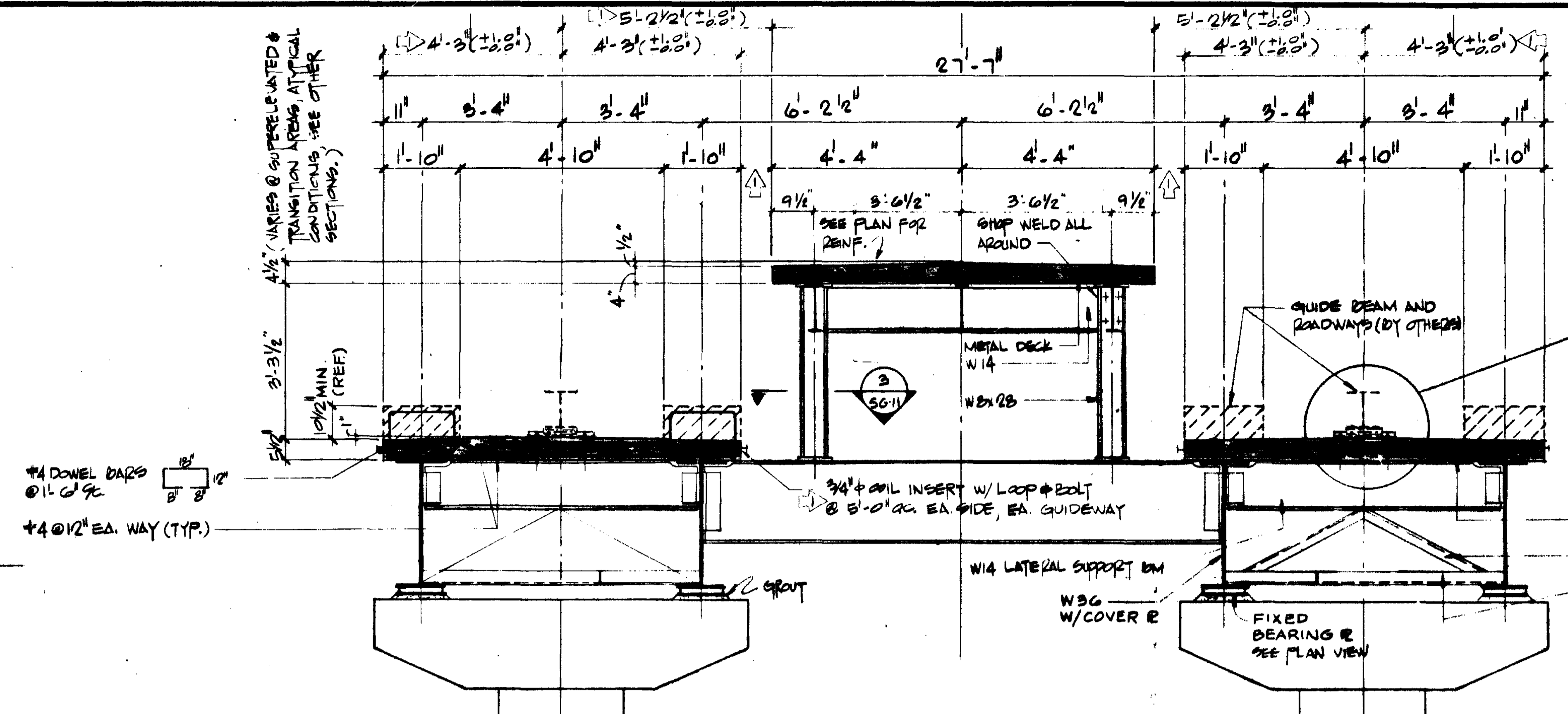
GUIDEWAY AND WALKWAY SLABS 6 G Scale: AS NOTED	Date JULY 10, 1975
Revisions AS BUILT June 1979	

Sheet SG-8 SCHEDULE II

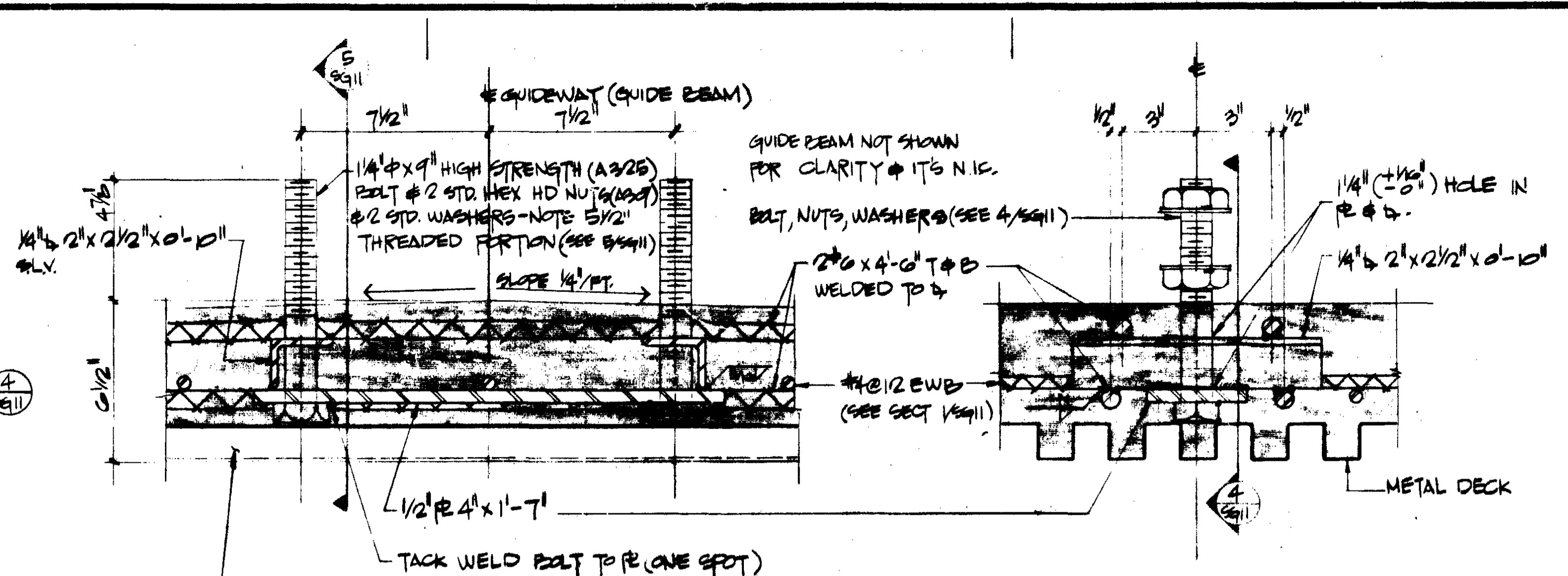
HOR

SATELLITE TRANSIT SHUTTLE
 MIAMI INTERNATIONAL AIRPORT
 DADE COUNTY AVIATION DEPARTMENT
 D.C.A.D. CONTRACT 4-14-2B

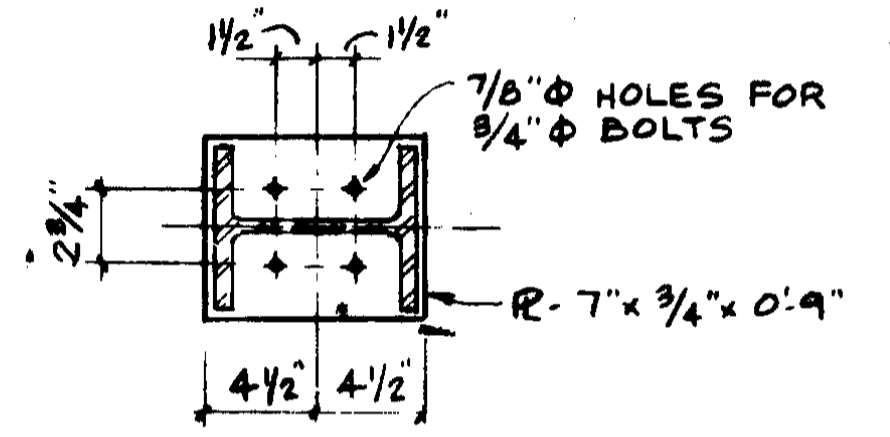
Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.



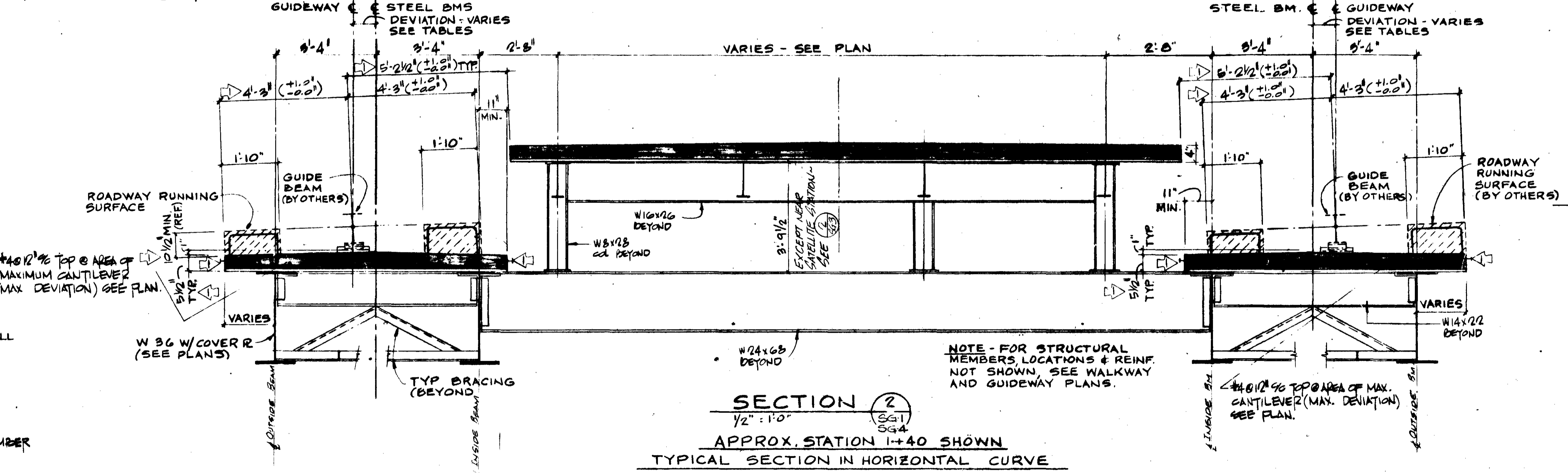
TYPICAL SECTION
SECTION 1 1/2" = 1'-0"



SECTION 4 3" = 1'-0"

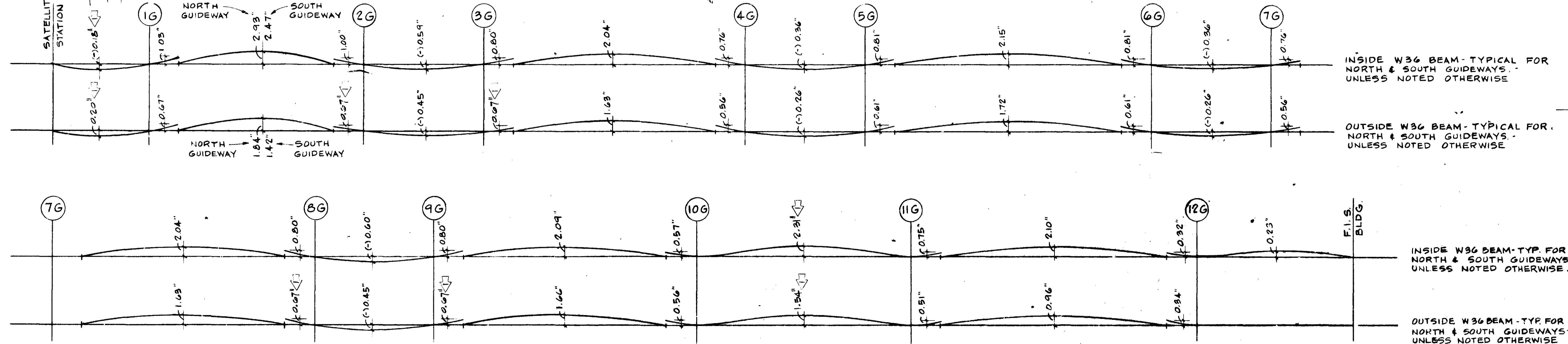


SECTION 3 1/2" = 1'-0"



SECTION 2 1/2" = 1'-0"
APPROX. STATION 1+40 SHOWN
TYPICAL SECTION IN HORIZONTAL CURVE

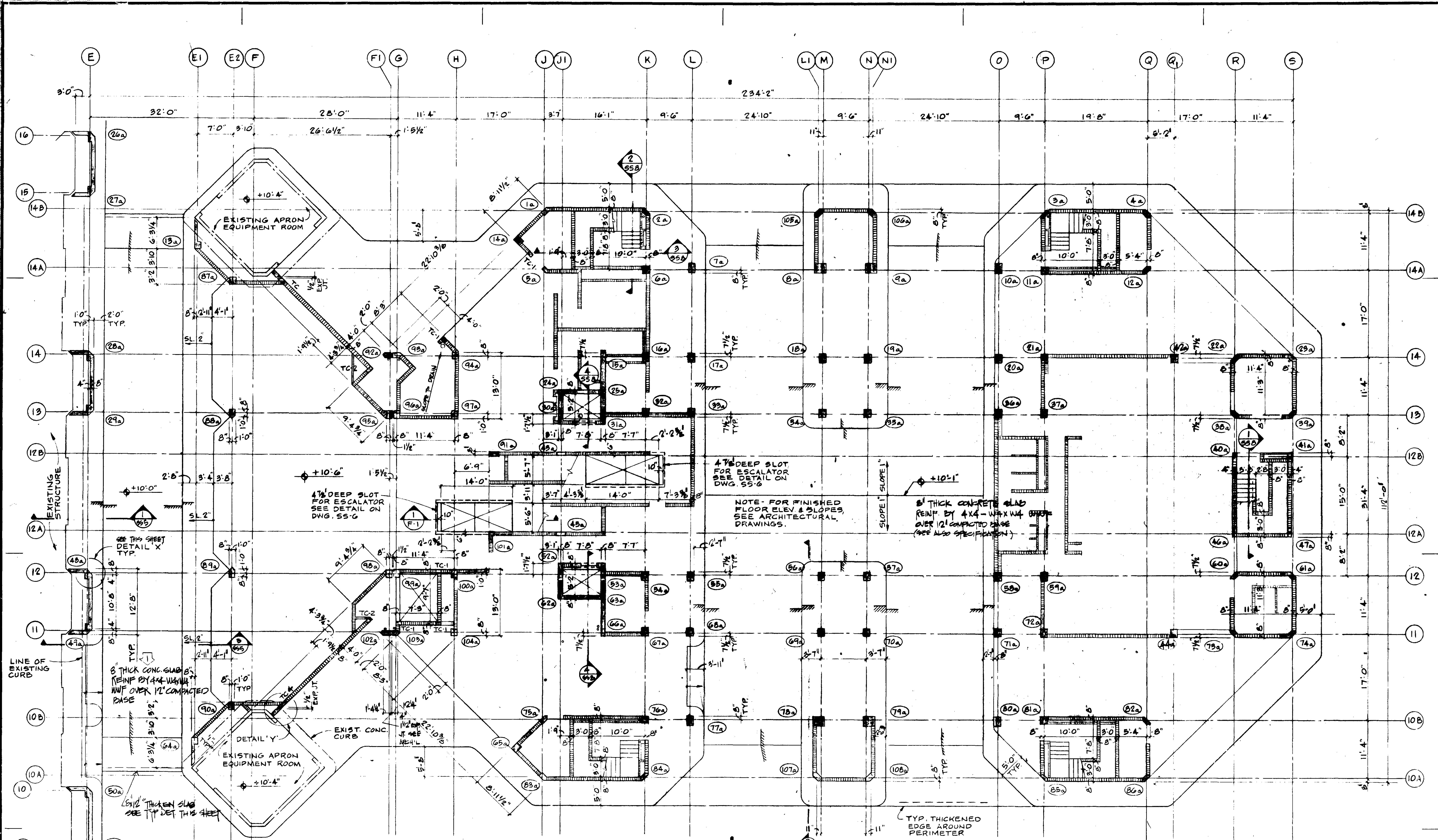
- CAMBER NOTES**
- 1- THE CAMBER SPECIFIED IS FOR FINAL FABRICATED MID-LENGTH OR ENDS. CAMBER WILL APPROXIMATE A SIMPLE REGULAR CURVE BETWEEN THE POINTS INDICATED
 - 2- THE CAMBER SPECIFIED IS A MINIMUM VALUE. TOLERANCES SHALL BE PER AISC-1-125 & 126
 - 3- CAMBER IS FOR DEAD LOADS PLUS ONE-HALF LIVE LOADS (THREE CARS) NOTE: CAMBER SHALL BE PROVIDED IN RUNNING SURFACES BY OTHERS.



ELEVATIONS-GUIDEWAY BEAM CAMBER
NO SCALE

DATE	JULY 10, 1975
REVISIONS	AS BUILT 7 JUNE 79
SCALE	AS NOTED

SHEET
SG-11
 SCHEDULE II



FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

GENERAL STRUCTURAL NOTES

Concrete: Shall have a minimum 28 day compressive strength of 3000 p.s.i.

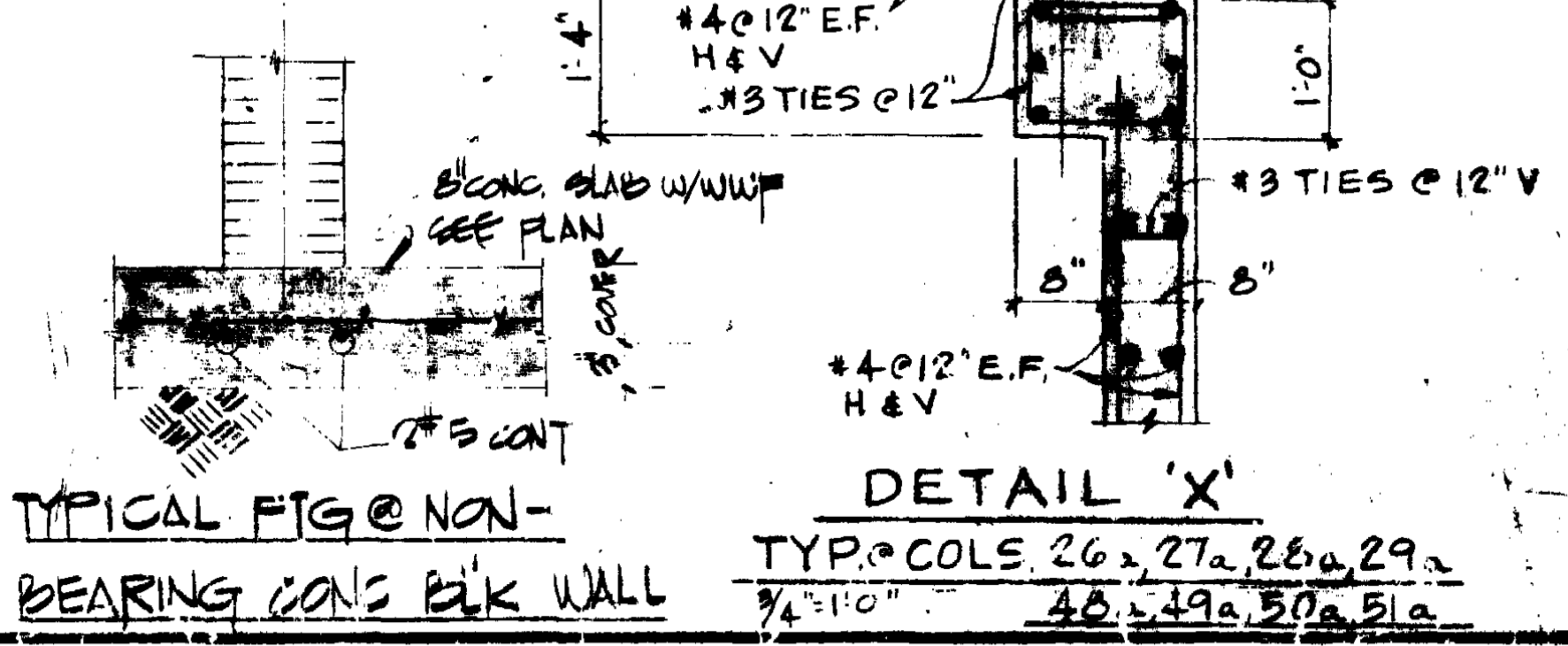
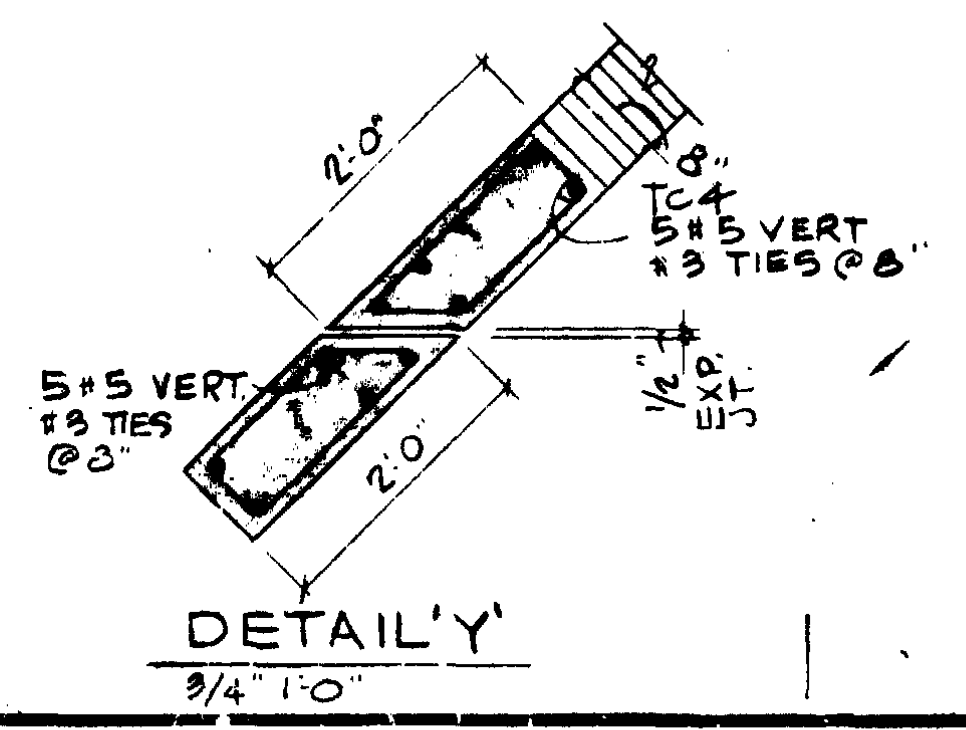
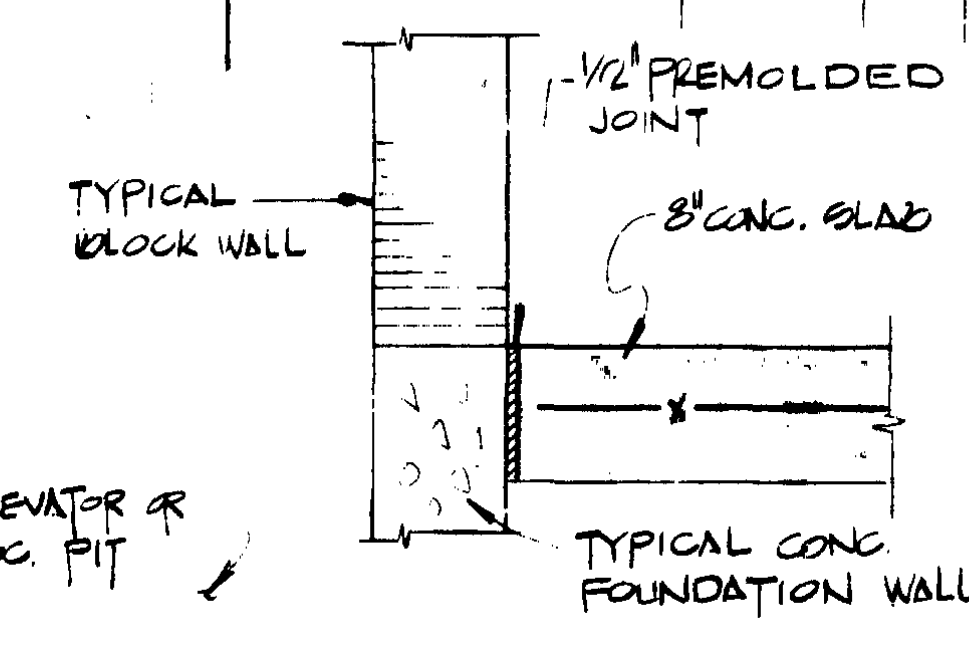
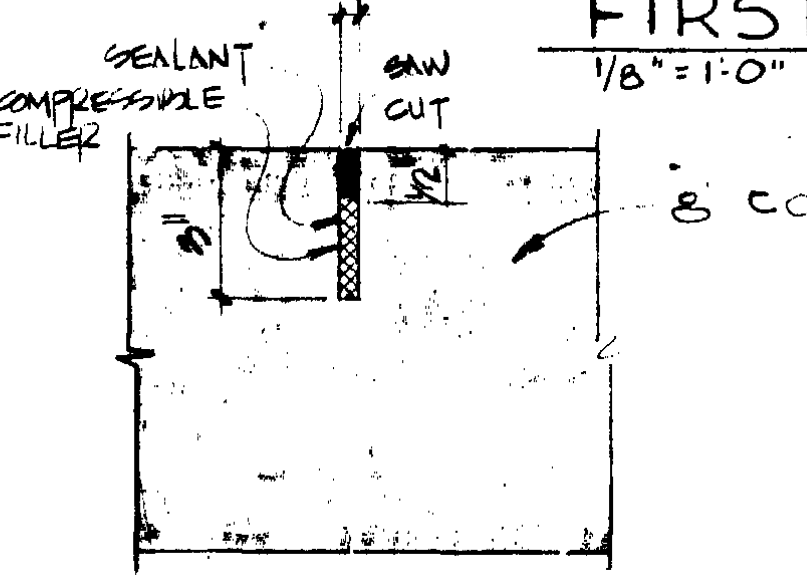
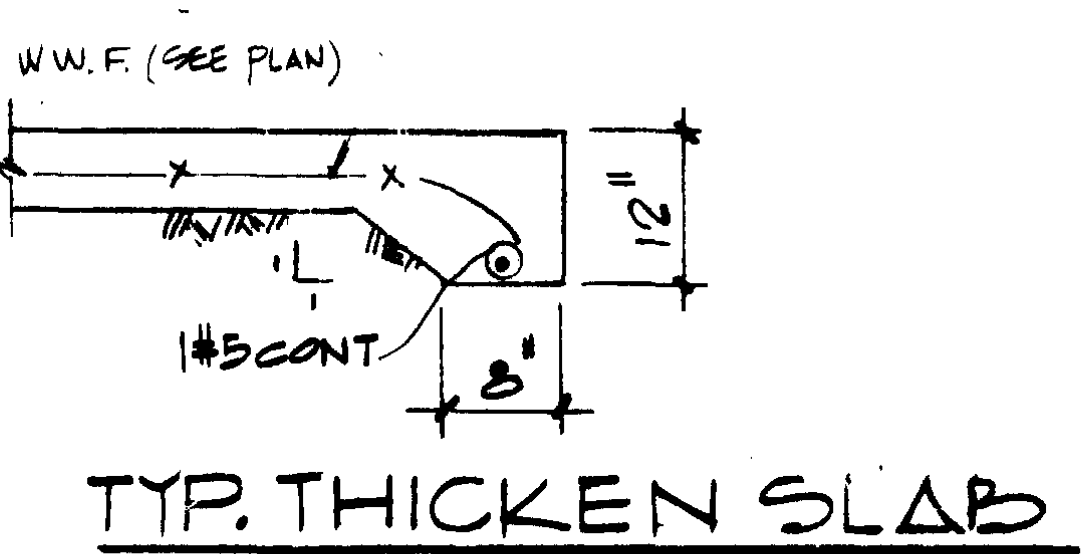
Reinforcing: Shall be deformed bars, free from loose rust and scale, and conforming to Standard Specifications for Deformed Billet Steel Bars for Concrete Reinforcing, ASTM A 615-68, Grade 60, ties, anchors and stirrups shall conform to ASTM A 615-68, Grade 40.

Reinforcing: Cover as follows:

	Second Floor	Third Floor Thru Roof
Columns	1 1/2"	1 1/2"
Beams	1 1/2"	1 1/2"
Joints	1 1/2"	1 1/2"
Slabs	1"	3/4"

8" x 8" Precast concrete panel with two No. 8 bars top and bottom are minimum for openings up to 6'-0". Provide 1" minimum bearing each side of opening.

See also general notes on T-103

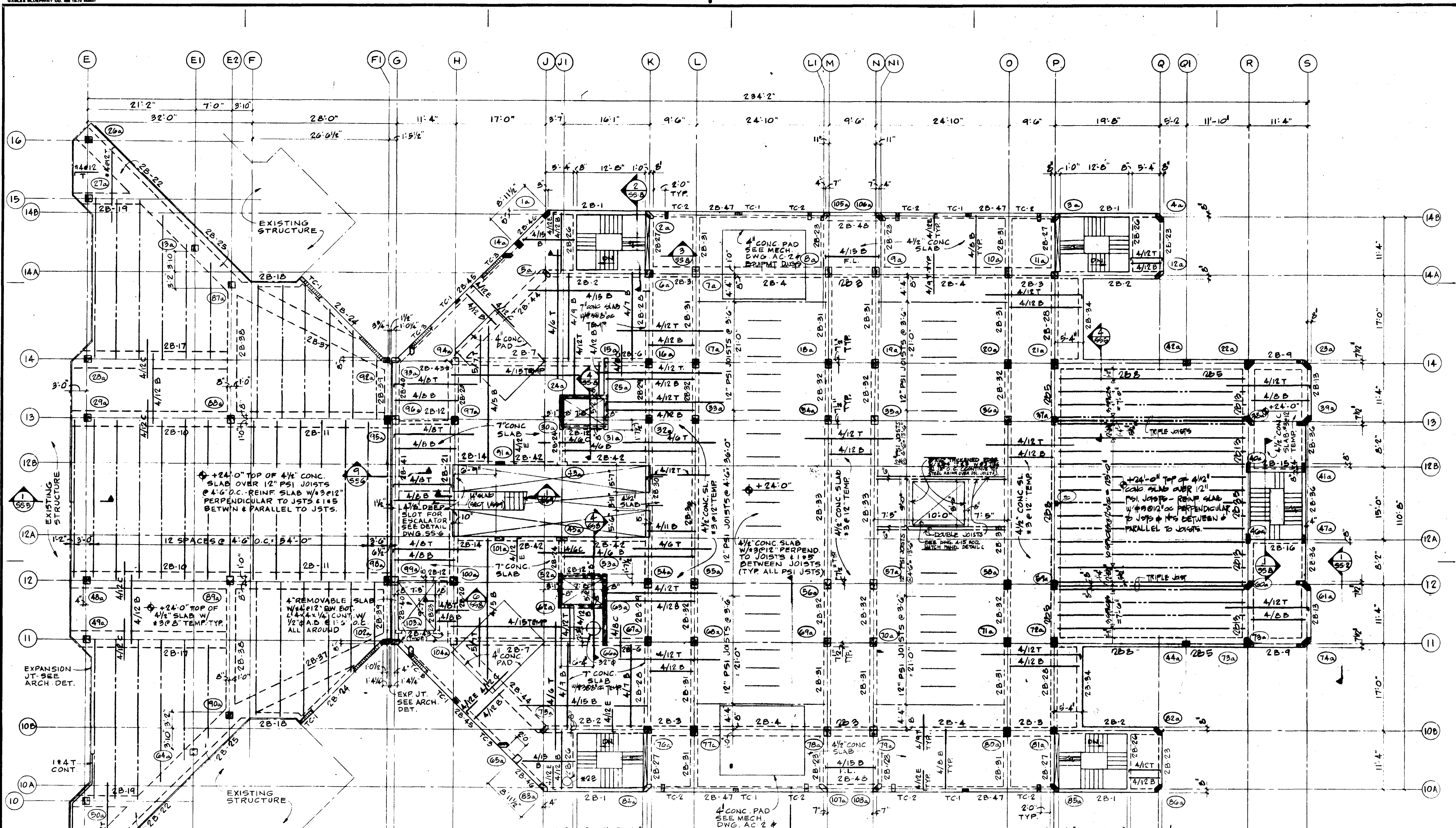


SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

HOR

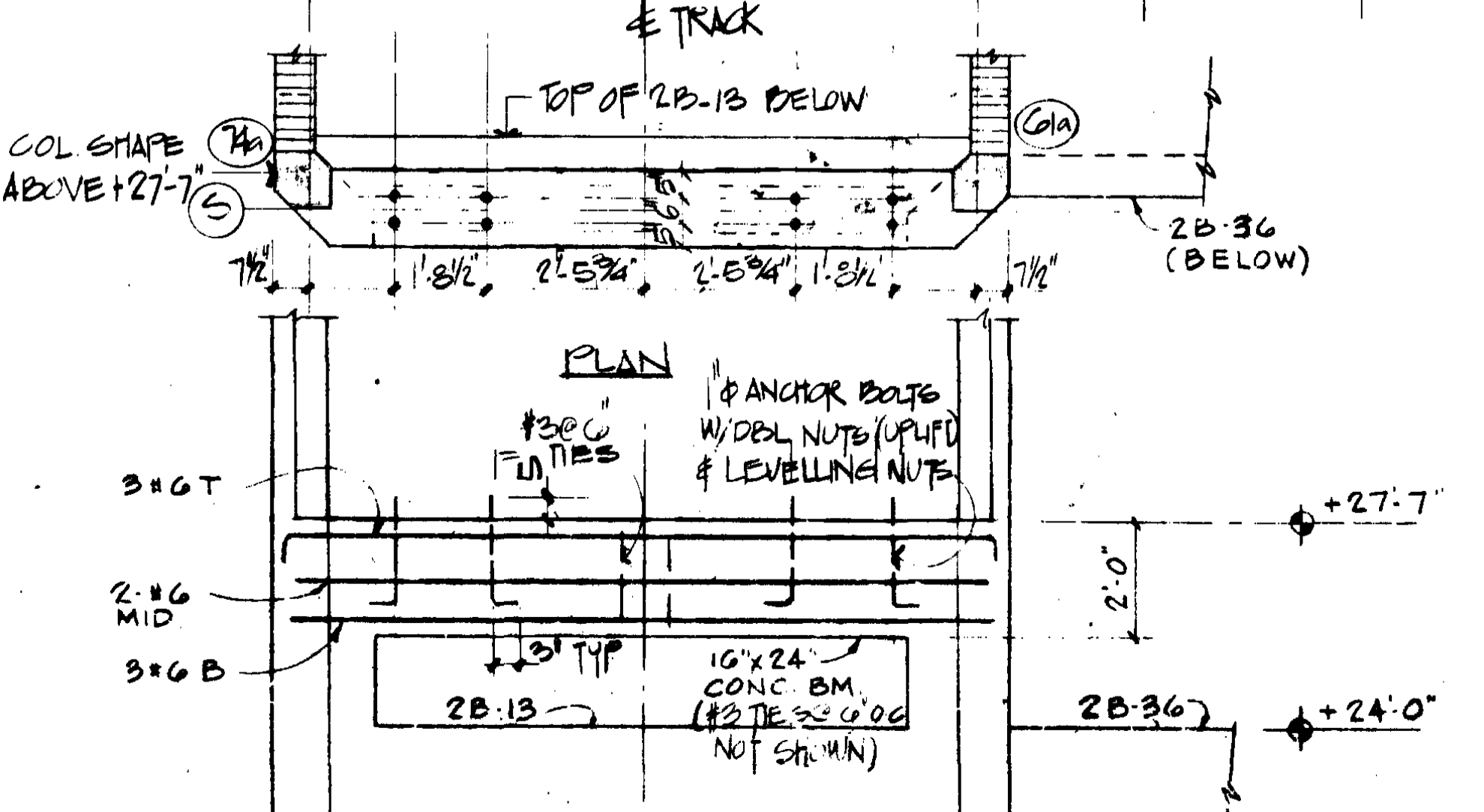
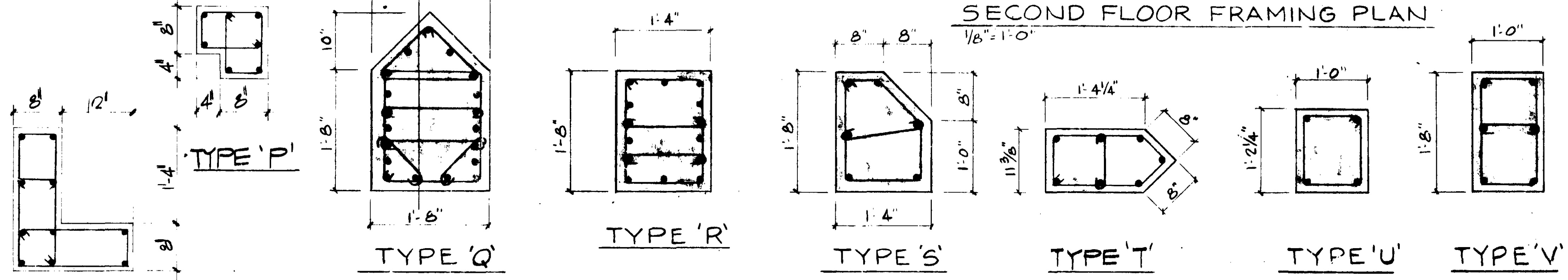
Harry Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.

TRANSIT STATION SATELLITE SHUTTLE FIRST FLOOR PLAN Scale as shown	Date JULY 10, 1975
Revisions AS NOTED	
Sheet SS-1	
SCHEDULE E II	



NOTES:
 *21 FOR LOCATION & SIZE OF SLEEVES & OPENINGS IN BEAMS & FLOOR SLAB SEE MECH. DWGS.
 *22 FOR LINTELS SEE GENERAL STRUCTURAL NOTES ON S1.
 *23 FOR DETAILS OF LARGE OPENINGS REFERENCING THIS NOTE SEE SECTION 12 ON S50.

SECOND FLOOR FRAMING PLAN

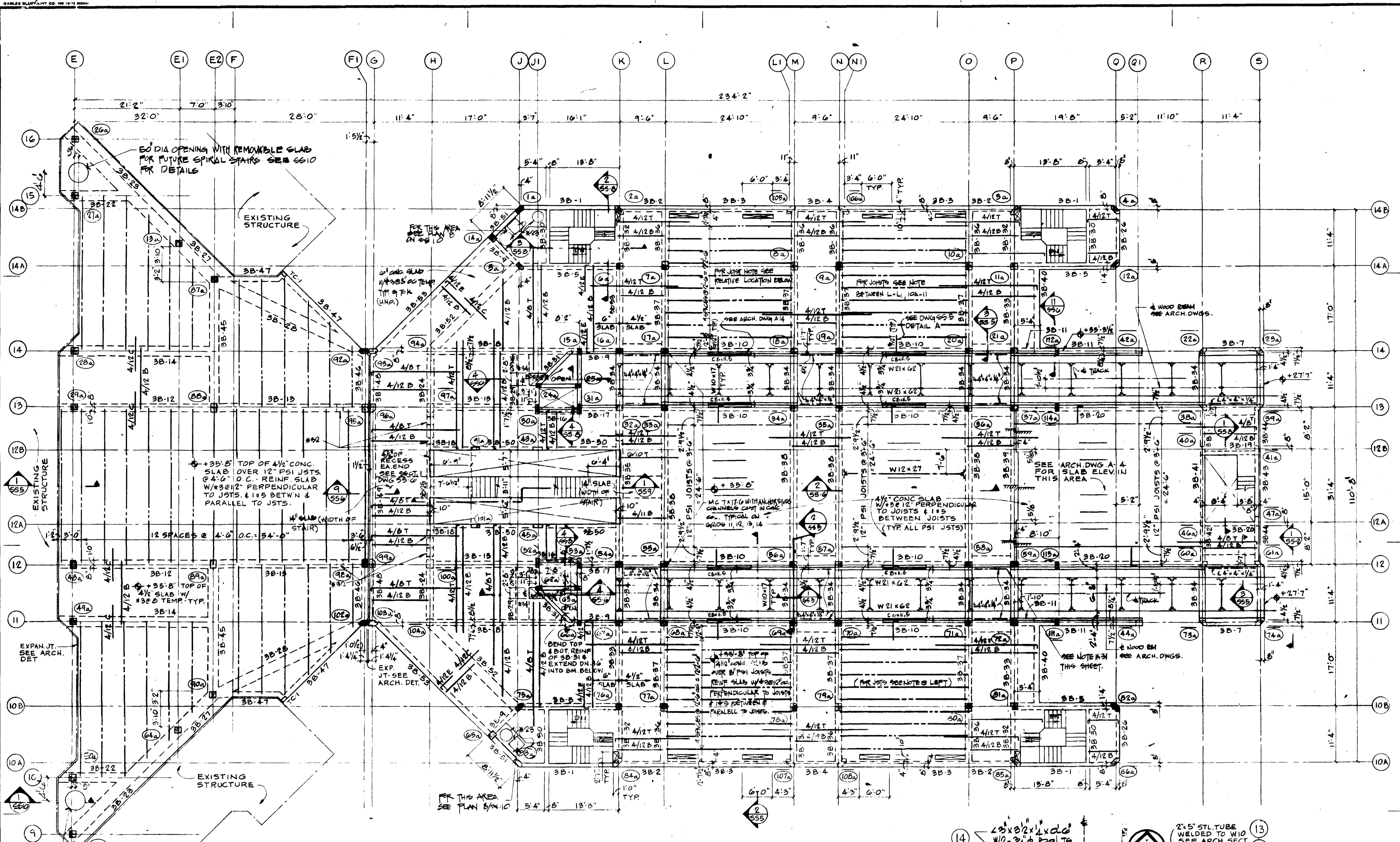


SATELLITE TRANSIT SHUTTLE
 MIAMI INTERNATIONAL AIRPORT
 DADE COUNTY AVIATION DEPARTMENT
 D.C.A.D. CONTRACT 4-14-2B

HOP

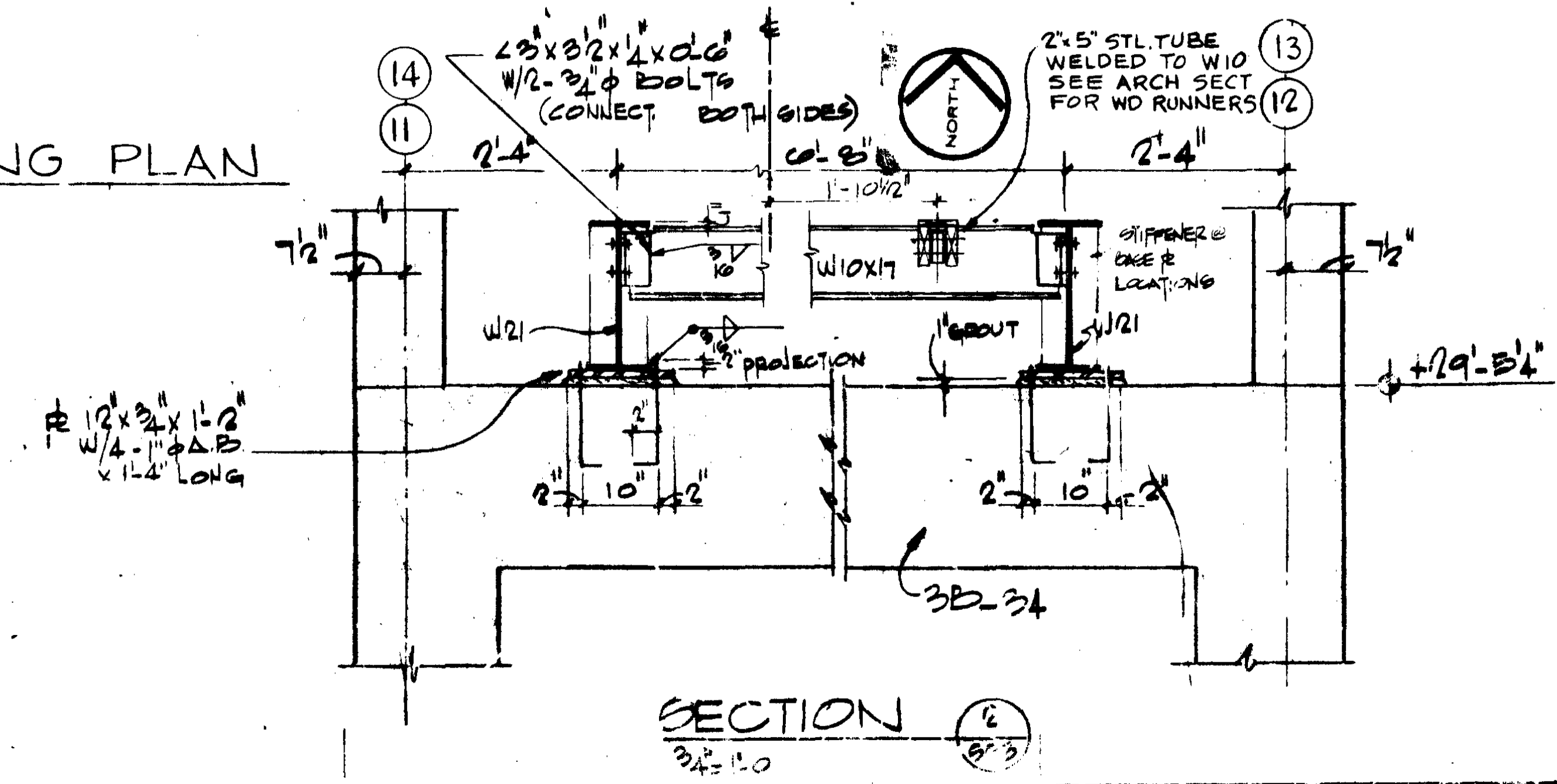
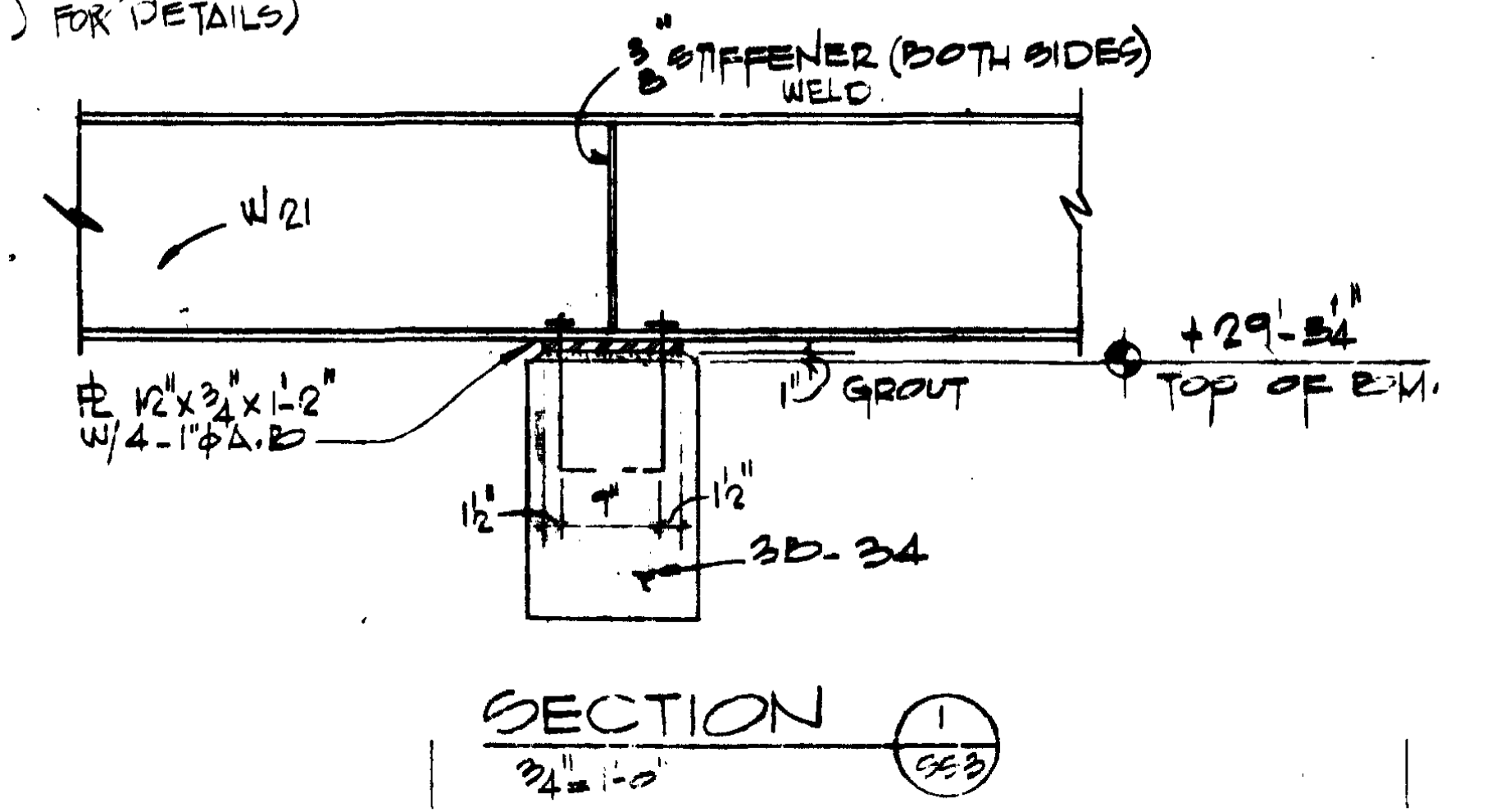
TRANSIT STATION SATELLITE SECOND FLR. FRAMING PLAN Scale as shown	Date JULY 10, 1975
Revisions AS EXH. JUNE 79	
Sheet SS-2	
SCHEDULE II	

Harry Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.



THIRD FLOOR FRAMING PLAN

- 310a Third floor along grid lines 11, 12, 13, and 14, the contractor is to exercise extreme care to assure a level floor to match train floor. The columns must be plumb and of greatest width and proper relation to track guides.
- 332 For location and size of sleeves and openings in beams and floor slab, see Mechanical Drawings.
- 333 For hangers see General Structural Notes on SSI.
- 334 For detail plan of buffers (mounted to beam 3B29's) see Partial Plan "A" on S88.

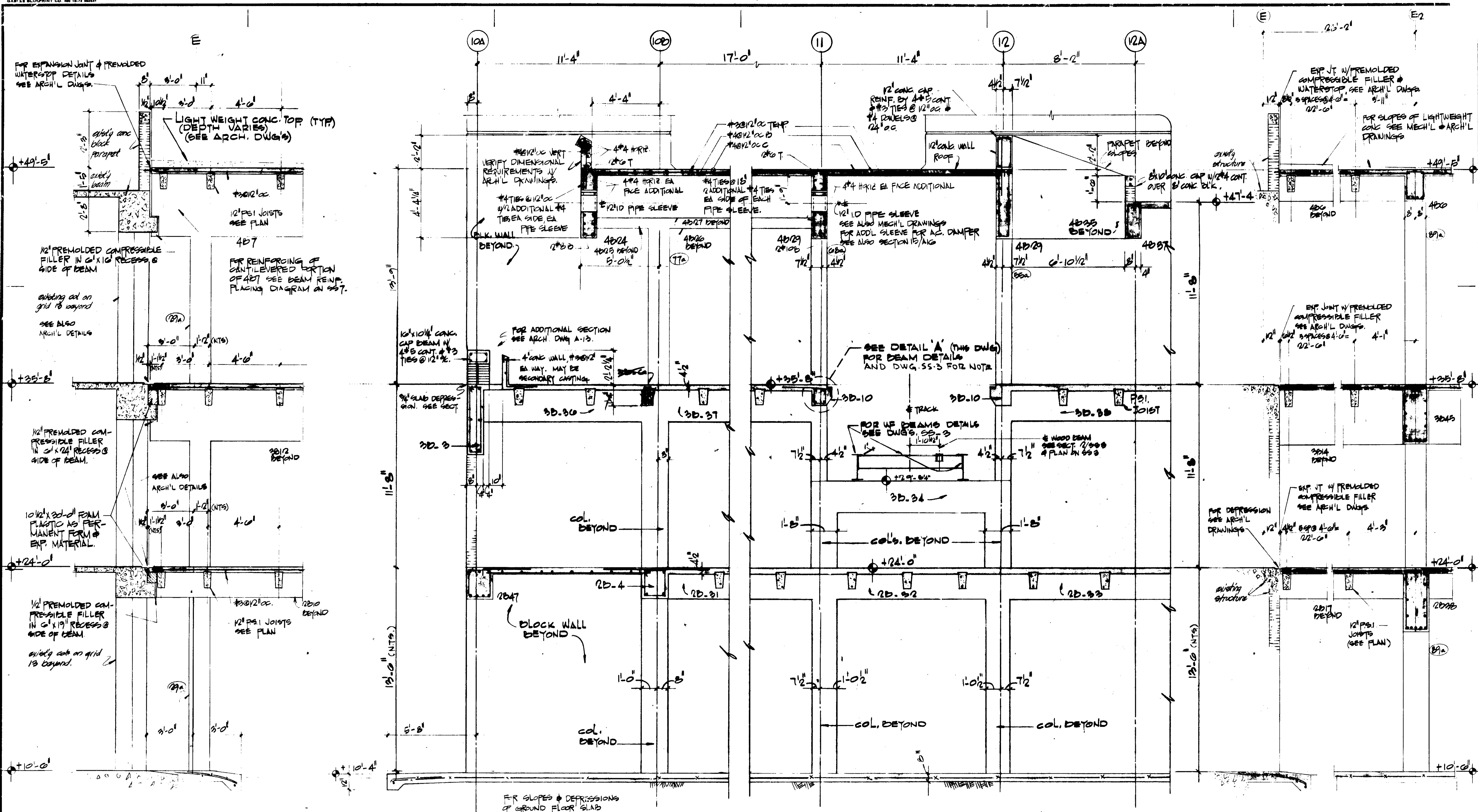


HCF

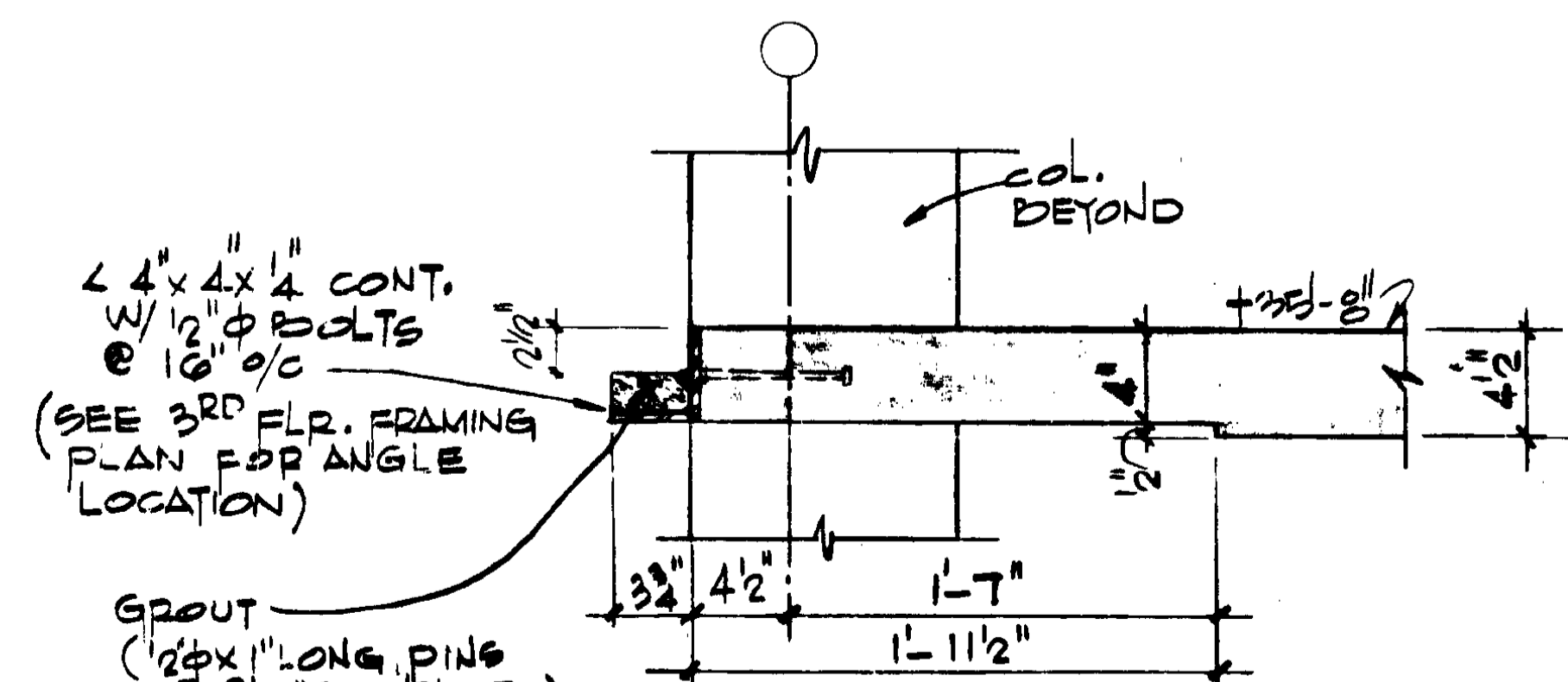
SATELLITE TRANSIT SHUTTLE
 MIAMI INTERNATIONAL AIRPORT
 DADE COUNTY AVIATION DEPARTMENT
 D.C.A.D. CONTRACT 4-14-2B

Harry Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.

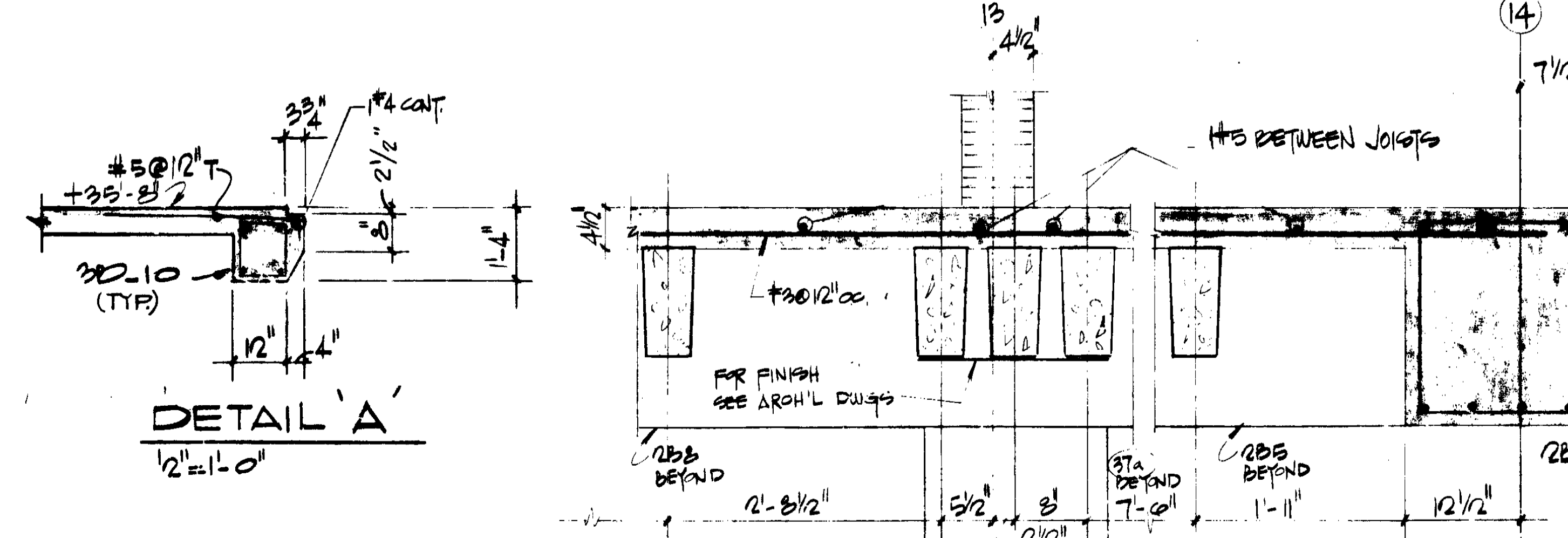
TRANSIT STATION - SATELLITE THIRD FL. FRAMING PLAN Scale AS SHOWN	Date JULY 10, 1975
Revisions AS BUILT JUNE 79	
Sheet SS-3	
SCHEDULE II	



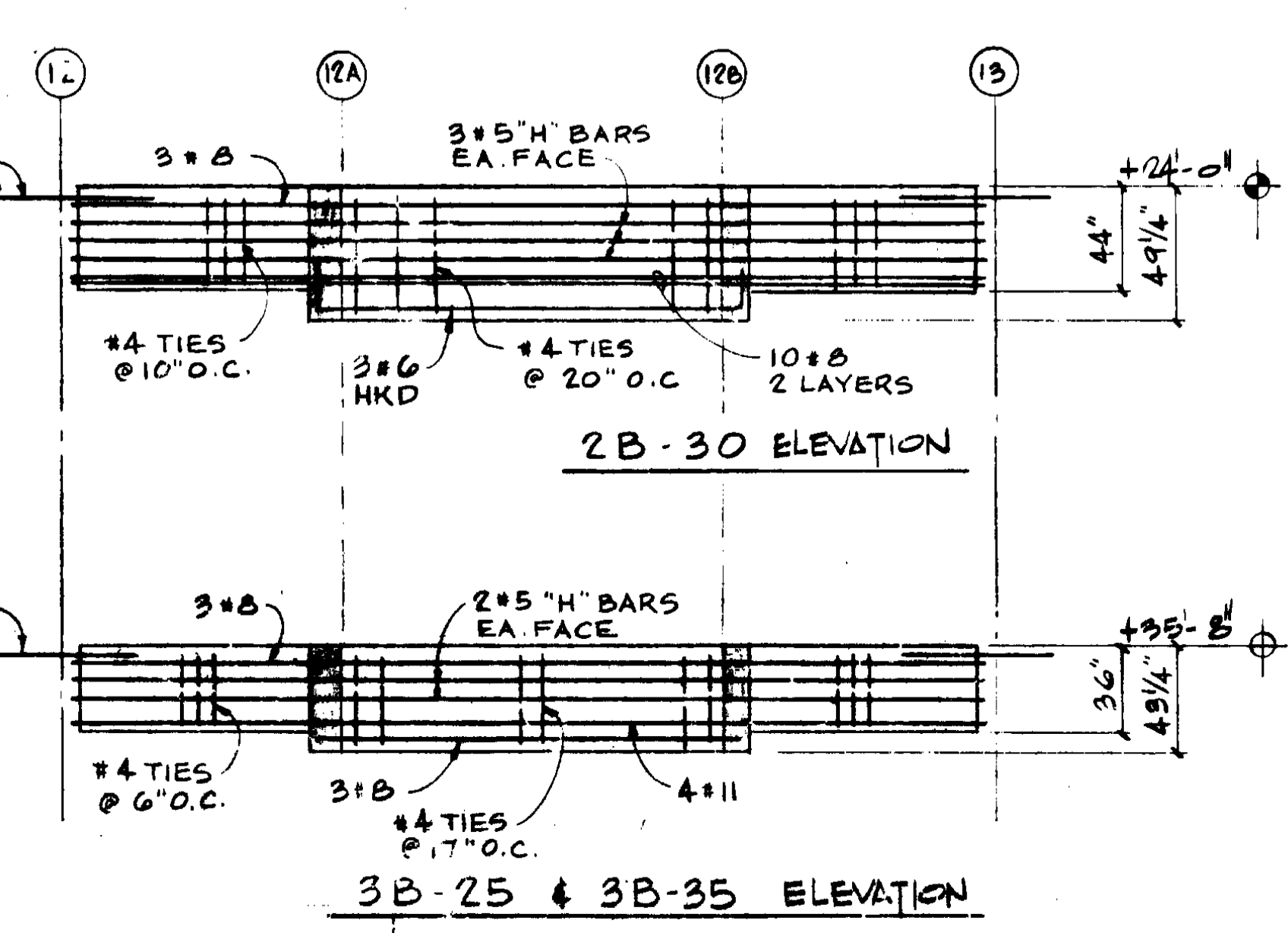
SECTION 1 3'-10" (55/2, 3+4)



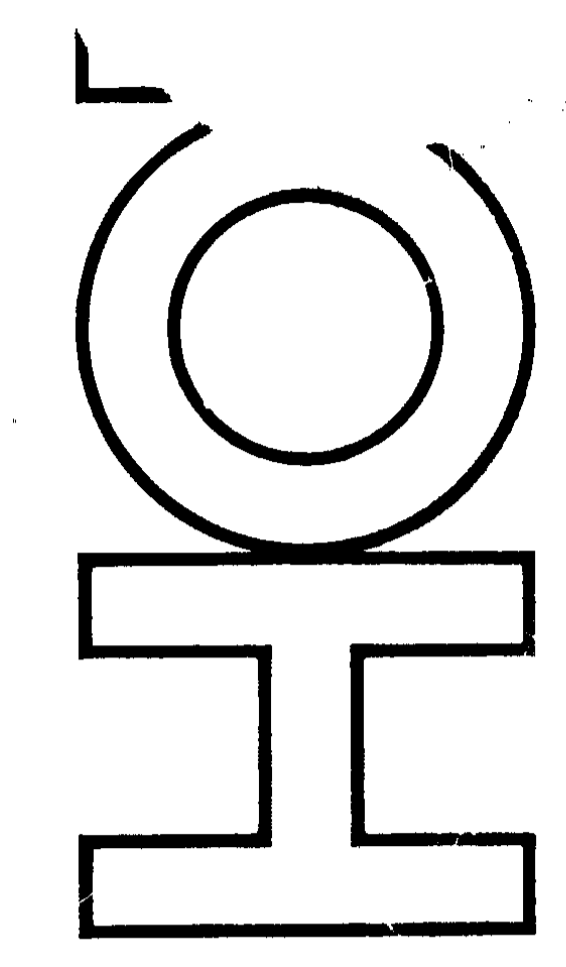
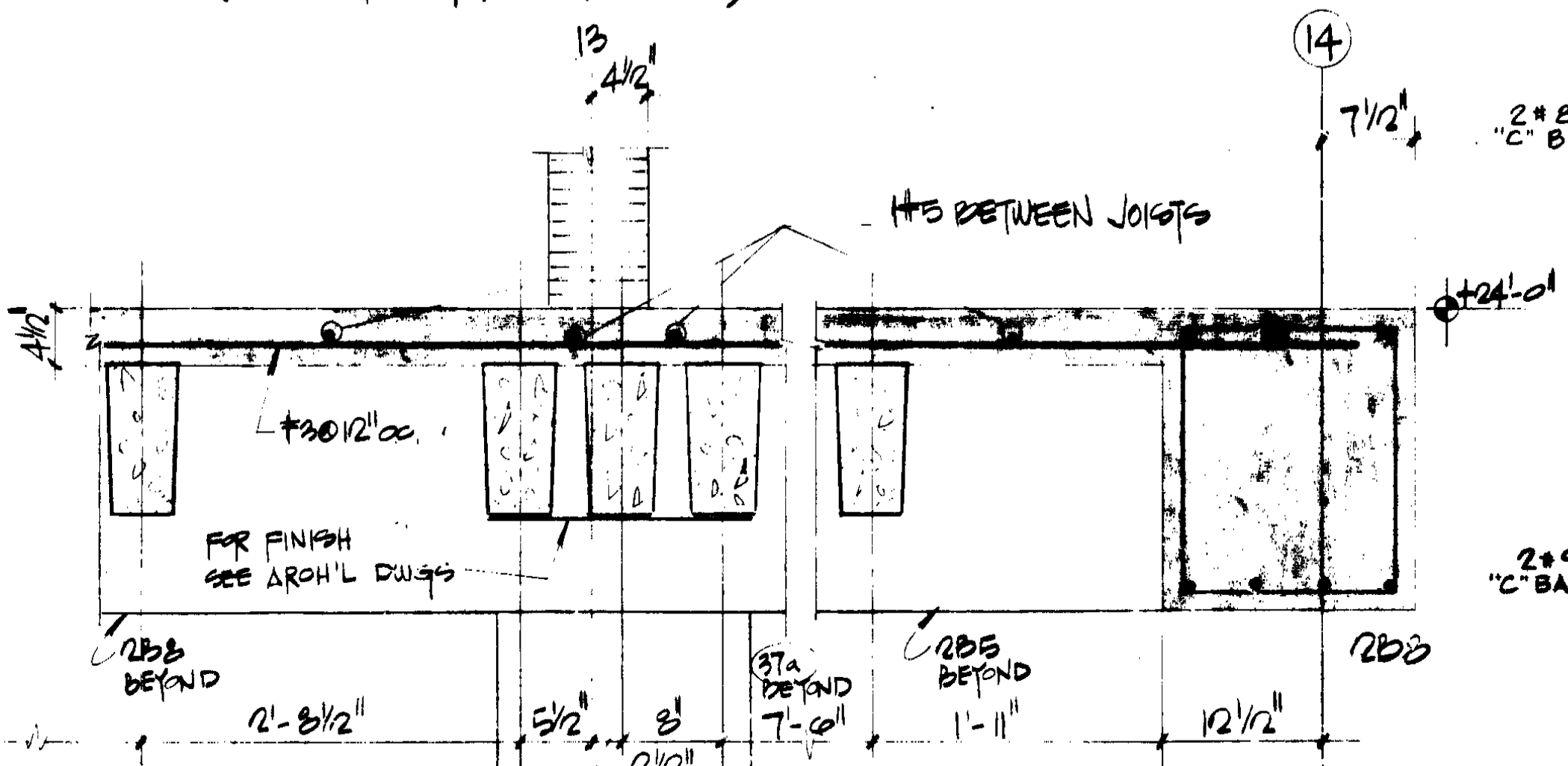
SECTION 2 3'-10" (55/2, 2+3) (SIMILAR OPPOSITE SIDE)



SECTION 3 3'-10" (55/2, 1-0)



SECTION 4 1'-10"



SATELLITE TRANSIT SHUTTLE
 MIAMI INTERNATIONAL AIRPORT
 DADE COUNTY AVIATION DEPARTMENT
 D.C.A.D. CONTRACT 4-14-2B

Scale: AS SHOWN
 Revisions: AS BUILT JUNE 79

TRANSIT STATION SATELLITE SECTIONS & DETAILS	Date: JULY 10, 1975
Scale AS SHOWN	Revisions: AS BUILT JUNE 79

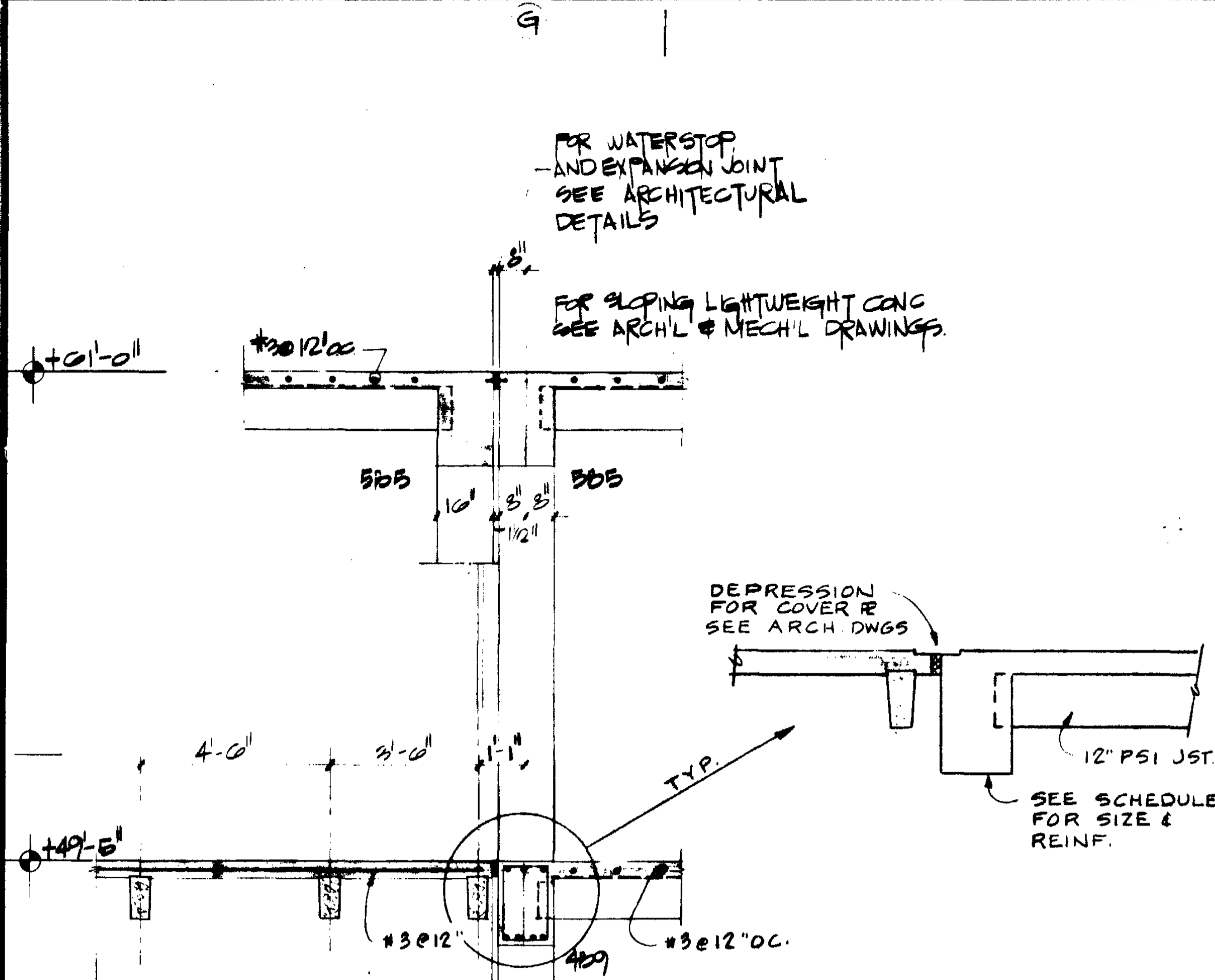
Sheet **SS-5**
 SCHEDULE 210-9

Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.

HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.

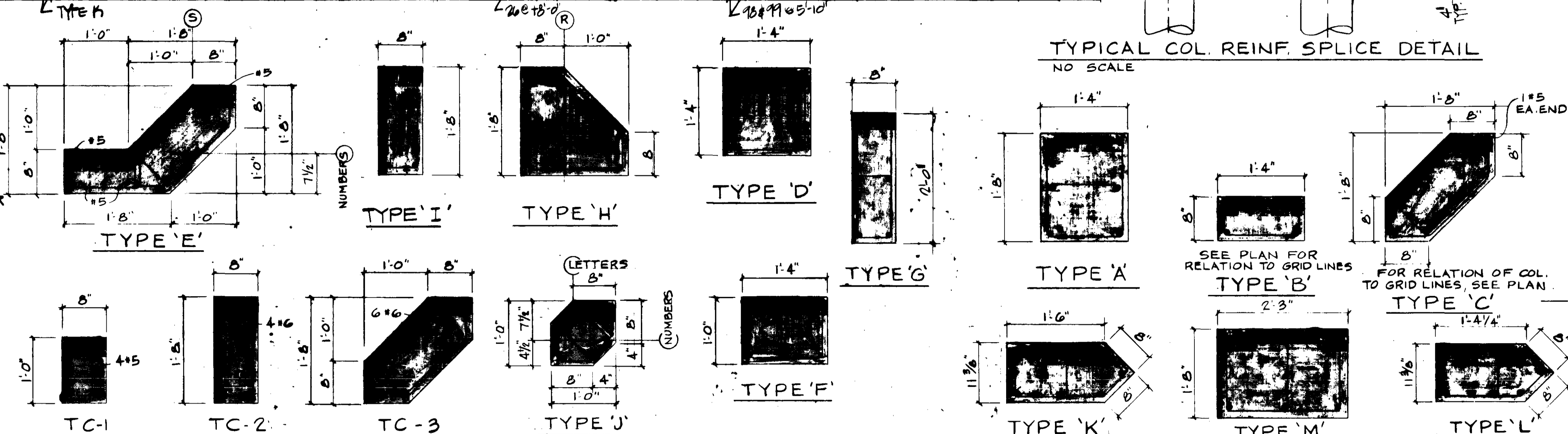
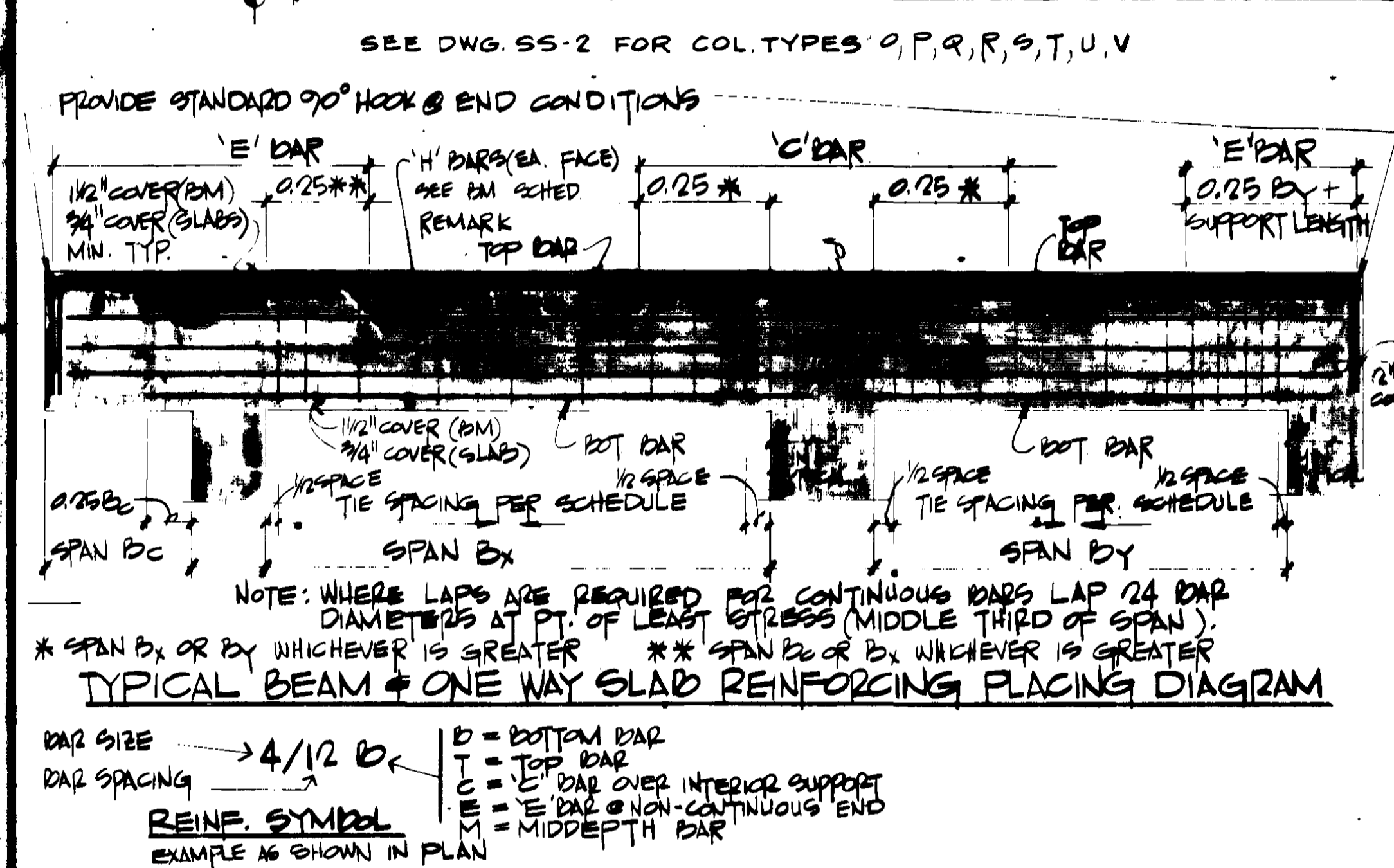
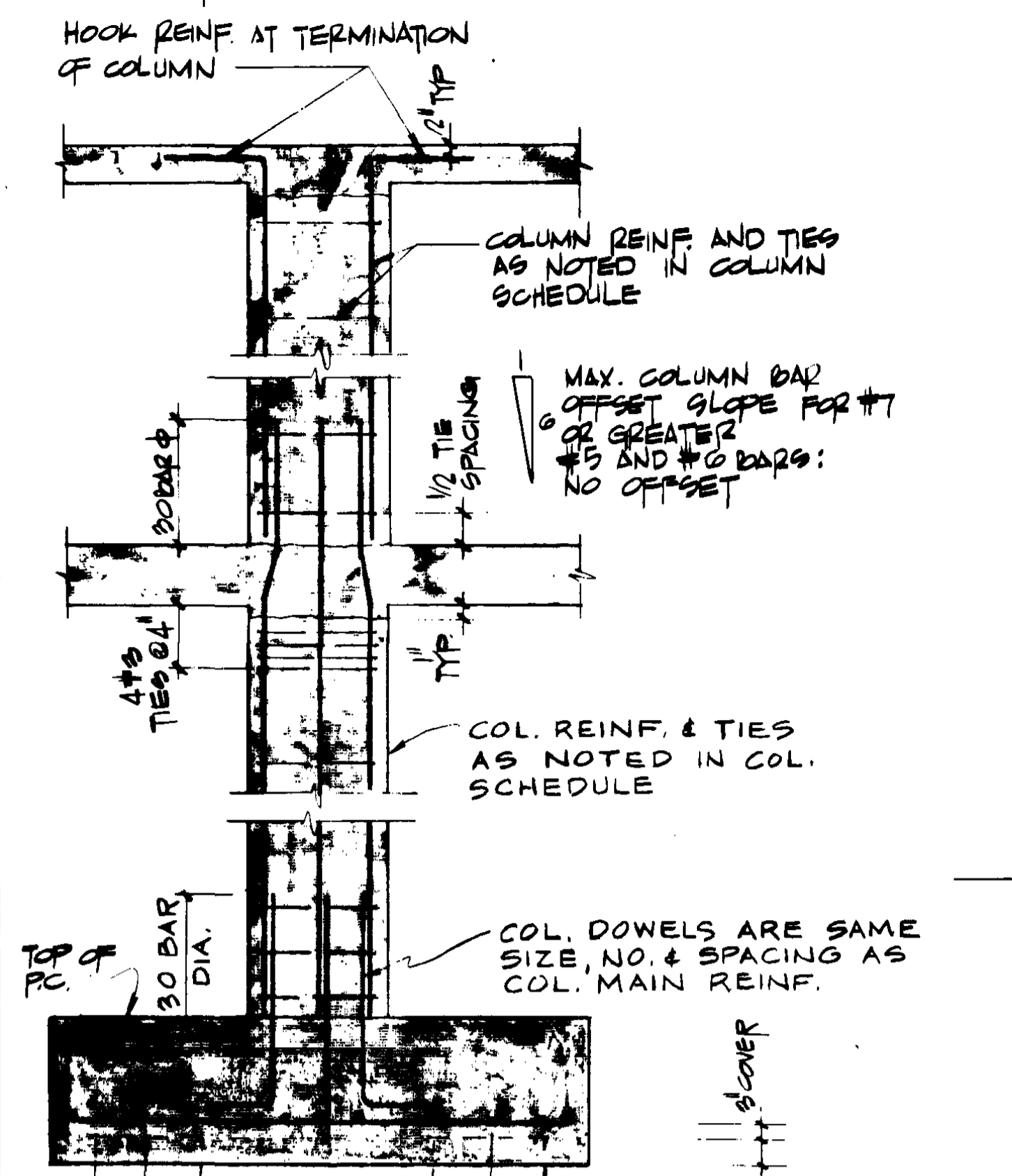


SHEAR FRICTION ADD'L REINFORCING

MARK	REINF	REFERENCE	REMARK	SUPPORTING BEAM	SUPPORTED BEAM
2B02	3#5	SECT 3		2B05	2B07
2B08	3#5	SECT 3		2B14	2B22
2B11 2B02	3#5	SECT 3		2B24	2B34
2B02	3#5	SECT 3		2B34	2B42
2B22	3#5	SECT 3		2B42	2B50
2B42	3#5	SECT 3		2B50	2B58
2B58	3#5	SECT 3		2B58	2B66
2B66	3#5	SECT 3		2B66	2B74
2B74	3#5	SECT 3		2B74	2B82
2B82	3#5	SECT 3		2B82	2B90
2B90	3#5	SECT 3		2B90	2B98
2B98	3#5	SECT 3		2B98	2B06
2B06	3#5	SECT 3		2B06	2B14
2B14	3#5	SECT 3		2B14	2B22
2B22	3#5	SECT 3		2B22	2B30
2B30	3#5	SECT 3		2B30	2B38
2B38	3#5	SECT 3		2B38	2B46
2B46	3#5	SECT 3		2B46	2B54
2B54	3#5	SECT 3		2B54	2B62
2B62	3#5	SECT 3		2B62	2B70
2B70	3#5	SECT 3		2B70	2B78
2B78	3#5	SECT 3		2B78	2B86
2B86	3#5	SECT 3		2B86	2B94
2B94	3#5	SECT 3		2B94	2B02
2B02	3#5	SECT 3		2B02	2B10
2B10	3#5	SECT 3		2B10	2B18
2B18	3#5	SECT 3		2B18	2B26
2B26	3#5	SECT 3		2B26	2B34
2B34	3#5	SECT 3		2B34	2B42
2B42	3#5	SECT 3		2B42	2B50
2B50	3#5	SECT 3		2B50	2B58
2B58	3#5	SECT 3		2B58	2B66
2B66	3#5	SECT 3		2B66	2B74
2B74	3#5	SECT 3		2B74	2B82
2B82	3#5	SECT 3		2B82	2B90
2B90	3#5	SECT 3		2B90	2B98
2B98	3#5	SECT 3		2B98	2B06
2B06	3#5	SECT 3		2B06	2B14
2B14	3#5	SECT 3		2B14	2B22
2B22	3#5	SECT 3		2B22	2B30
2B30	3#5	SECT 3		2B30	2B38
2B38	3#5	SECT 3		2B38	2B46
2B46	3#5	SECT 3		2B46	2B54
2B54	3#5	SECT 3		2B54	2B62
2B62	3#5	SECT 3		2B62	2B70
2B70	3#5	SECT 3		2B70	2B78
2B78	3#5	SECT 3		2B78	2B86
2B86	3#5	SECT 3		2B86	2B94
2B94	3#5	SECT 3		2B94	2B02
2B02	3#5	SECT 3		2B02	2B10
2B10	3#5	SECT 3		2B10	2B18
2B18	3#5	SECT 3		2B18	2B26
2B26	3#5	SECT 3		2B26	2B34
2B34	3#5	SECT 3		2B34	2B42
2B42	3#5	SECT 3		2B42	2B50
2B50	3#5	SECT 3		2B50	2B58
2B58	3#5	SECT 3		2B58	2B66
2B66	3#5	SECT 3		2B66	2B74
2B74	3#5	SECT 3		2B74	2B82
2B82	3#5	SECT 3		2B82	2B90
2B90	3#5	SECT 3		2B90	2B98
2B98	3#5	SECT 3		2B98	2B06
2B06	3#5	SECT 3		2B06	2B14
2B14	3#5	SECT 3		2B14	2B22
2B22	3#5	SECT 3		2B22	2B30
2B30	3#5	SECT 3		2B30	2B38
2B38	3#5	SECT 3		2B38	2B46
2B46	3#5	SECT 3		2B46	2B54
2B54	3#5	SECT 3		2B54	2B62
2B62	3#5	SECT 3		2B62	2B70
2B70	3#5	SECT 3		2B70	2B78
2B78	3#5	SECT 3		2B78	2B86
2B86	3#5	SECT 3		2B86	2B94
2B94	3#5	SECT 3		2B94	2B02
2B02	3#5	SECT 3		2B02	2B10
2B10	3#5	SECT 3		2B10	2B18
2B18	3#5	SECT 3		2B18	2B26
2B26	3#5	SECT 3		2B26	2B34
2B34	3#5	SECT 3		2B34	2B42
2B42	3#5	SECT 3		2B42	2B50
2B50	3#5	SECT 3		2B50	2B58
2B58	3#5	SECT 3		2B58	2B66
2B66	3#5	SECT 3		2B66	2B74
2B74	3#5	SECT 3		2B74	2B82
2B82	3#5	SECT 3		2B82	2B90
2B90	3#5	SECT 3		2B90	2B98
2B98	3#5	SECT 3		2B98	2B06
2B06	3#5	SECT 3		2B06	2B14
2B14	3#5	SECT 3		2B14	2B22
2B22	3#5	SECT 3		2B22	2B30
2B30	3#5	SECT 3		2B30	2B38
2B38	3#5	SECT 3		2B38	2B46
2B46	3#5	SECT 3		2B46	2B54
2B54	3#5	SECT 3		2B54	2B62
2B62	3#5	SECT 3		2B62	2B70
2B70	3#5	SECT 3		2B70	2B78
2B78	3#5	SECT 3		2B78	2B86
2B86	3#5	SECT 3		2B86	2B94
2B94	3#5	SECT 3		2B94	2B02
2B02	3#5	SECT 3		2B02	2B10
2B10	3#5	SECT 3		2B10	2B18
2B18	3#5	SECT 3		2B18	2B26
2B26	3#5	SECT 3		2B26	2B34
2B34	3#5	SECT 3		2B34	2B42
2B42	3#5	SECT 3		2B42	2B50
2B50	3#5	SECT 3		2B50	2B58
2B58	3#5	SECT 3		2B58	2B66
2B66	3#5	SECT 3		2B66	2B74
2B74	3#5	SECT 3		2B74	2B82
2B82	3#5	SECT 3		2B82	2B90
2B90	3#5	SECT 3		2B90	2B98
2B98	3#5	SECT 3		2B98	2B06
2B06	3#5	SECT 3		2B06	2B14
2B14	3#5	SECT 3		2B14	2B22
2B22	3#5	SECT 3		2B22	2B30
2B30	3#5	SECT 3		2B30	2B38
2B38	3#5	SECT 3		2B38	2B46
2B46	3#5	SECT 3		2B46	2B54
2B54	3#5	SECT 3		2B54	2B62
2B62	3#5	SECT 3		2B62	2B70
2B70	3#5	SECT 3		2B70	2B78
2B78	3#5	SECT 3		2B78	2B86
2B86	3#5	SECT 3		2B86	2B94
2B94	3#5	SECT 3		2B94	2B02
2B02	3#5	SECT 3		2B02	2B10
2B10	3#5	SECT 3		2B10	2B18
2B18	3#5	SECT 3		2B18	2B26
2B26	3#5	SECT 3		2B26	2B34
2B34	3#5	SECT 3		2B34	2B42
2B42	3#5	SECT 3		2B42	2B50
2B50	3#5	SECT 3		2B50	2B58
2B58	3#5	SECT 3		2B58	2B66
2B66	3#5	SECT 3		2B66	2B74
2B74	3#5	SECT 3		2B74	2B82
2B82	3#5	SECT 3		2B82	2B90
2B90	3#5	SECT 3		2B90	2B98
2B98	3#5	SECT 3		2B98	2B06
2B06	3#5	SECT 3		2B06	2B14
2B14	3#5	SECT 3		2B14	2B22
2B22	3#5	SECT 3		2B22	2B30
2B30	3#5	SECT 3		2B30	2B38
2B38	3#5	SECT 3		2B38	2B46
2B46	3#5	SECT 3		2B46	2B54
2B54	3#5	SECT 3		2B54	2B62
2B62	3#5	SECT 3		2B62	2B70
2B70	3#5	SECT 3		2B70	2B78
2B78	3#5	SECT 3		2B78	2B86
2B86	3#5	SECT 3		2B86	2B94
2B94	3#5	SECT 3		2B94	2B02
2B02	3#5	SECT 3		2B02	2B10
2B10	3#5	SECT 3		2B10	2B18
2B18	3#5	SECT 3		2B18	2B26
2B26	3#5	SECT 3		2B26	2B34
2B34	3#5	SECT 3		2B34	2B42
2B42	3#5	SECT 3		2B42	2B50
2B50	3#5	SECT 3		2B50	2B58
2B58	3#5	SECT 3		2B58	2B66
2B66	3#5	SECT 3		2B66	2B74
2B74	3#5	SECT 3		2B74	2B82
2B82	3#5	SECT 3		2B82	2B90
2B90	3#5	SECT 3		2B90	2B98
2B98	3#5	SECT 3		2B98	2B06
2B06	3#5	SECT 3		2B06	2B14
2B14	3#5	SECT 3		2B14	2B22
2B22	3#5	SECT 3		2B22	2B30
2B30	3#5	SECT 3		2B30	2B38
2B38	3#5	SECT 3		2B38	2B46
2B46	3#5	SECT 3		2B46	2B54
2B54	3#5	SECT 3		2B54	2B62
2B62	3#5	SECT 3		2B62	2B70
2B70	3#5	SECT 3		2B70	2B78
2B78	3#5	SECT 3		2B78	2B86
2B86	3#5	SECT 3		2B86	2B94
2B94	3#5	SECT 3		2B94	2B02
2B02	3#5	SECT 3		2B02	2B10
2B10	3#5	SECT 3		2B10	2B18
2B18	3#5	SECT 3		2B18	2B26
2B26	3#5	SECT 3		2B26	2B34
2B34	3#5	SECT 3		2B34	2B42
2B42	3#5	SECT 3		2B42	2B50
2B50	3#5	SECT 3		2B50	2B58
2B58	3#5	SECT 3		2B58	2B66
2B66	3#5	SECT 3		2B66	2B74
2B74	3#5	SECT 3		2B74	2B82
2B82	3#5	SECT 3		2B82	2B90
2B90	3#5	SECT 3		2B90	2B98
2B98	3#5	SECT 3		2B98	2B06
2B06	3#5	SECT 3		2B06	2B14
2B14	3#5	SECT 3		2B14	2B22
2B22	3#5	SECT 3		2B22	2B30
2B30	3#5	SECT 3		2B30	2B38
2B38	3#5	SECT 3		2B38	2B46
2B46	3#5	SECT 3		2B46	2B54
2B54	3#5	SECT 3		2B54	2B62
2B62	3#5	SECT 3		2B62	2B70
2B70	3#5	SECT 3		2B70	2B78
2B78	3#5	SECT 3		2B78	2B86
2B86	3#5	SECT 3		2B86	2B94
2B94	3#5	SECT 3		2B94	2B02
2B02	3#5	SECT 3		2B02	2B10
2B10	3#5	SECT 3		2B10	2B18
2B18	3#5	SECT 3		2B18	2B26
2B26	3#5	SECT 3		2B26	2B34
2B34	3#5	SECT 3		2B34	2B42
2B42	3#5	SECT 3		2B42	2B50
2B50	3#5	SECT 3		2B50	2B58
2B58	3#5	SECT 3		2B58	2B66
2B66	3#5	SECT 3		2B66	2B74
2B74	3#5	SECT 3		2B74	2B82
2B82	3#5	SECT 3		2B82	2B90
2B90	3#5	SECT 3		2B90	2B98
2B98	3#5	SECT 3		2B98	2B06
2B06	3#5	SECT 3		2B06	2B14
2B14	3#5	SECT 3		2B14	2B22
2B22	3#5	SECT 3		2B22	2B30
2B30	3#5	SECT 3		2B30	2B38
2B38	3#5	SECT 3		2B38	2B46
2B46	3#5	SECT 3		2B46	2B54
2B54	3#5	SECT 3		2B54	2B62
2B62	3#5	SECT 3		2B62	2B70
2B70	3#5	SECT 3		2B70	2B78
2B78	3#5	SECT 3		2B78	2B86
2B86	3#5	SECT 3		2B86	2B94
2B94	3#5	SECT 3		2B94	2B02

TRANSIT SHUTTLE STATION (a)-CONCRETE COLUMN SCHEDULE

Main table with columns for MARK, SUFFIX, ELEV. ROOF, PENTHOUSE, ROOF, STAIR ROOF, MAIN ROOF, 3rd FLR, 2nd FLR, 1st FLR, and various column types (A-L) with their respective reinforcement details.



SECOND FLOOR CONG. BEAM SCHEDULE table listing beam marks, sizes, reinforcement, and remarks for the second floor.

THIRD FLOOR CONG. BEAM SCHEDULE table listing beam marks, sizes, reinforcement, and remarks for the third floor.

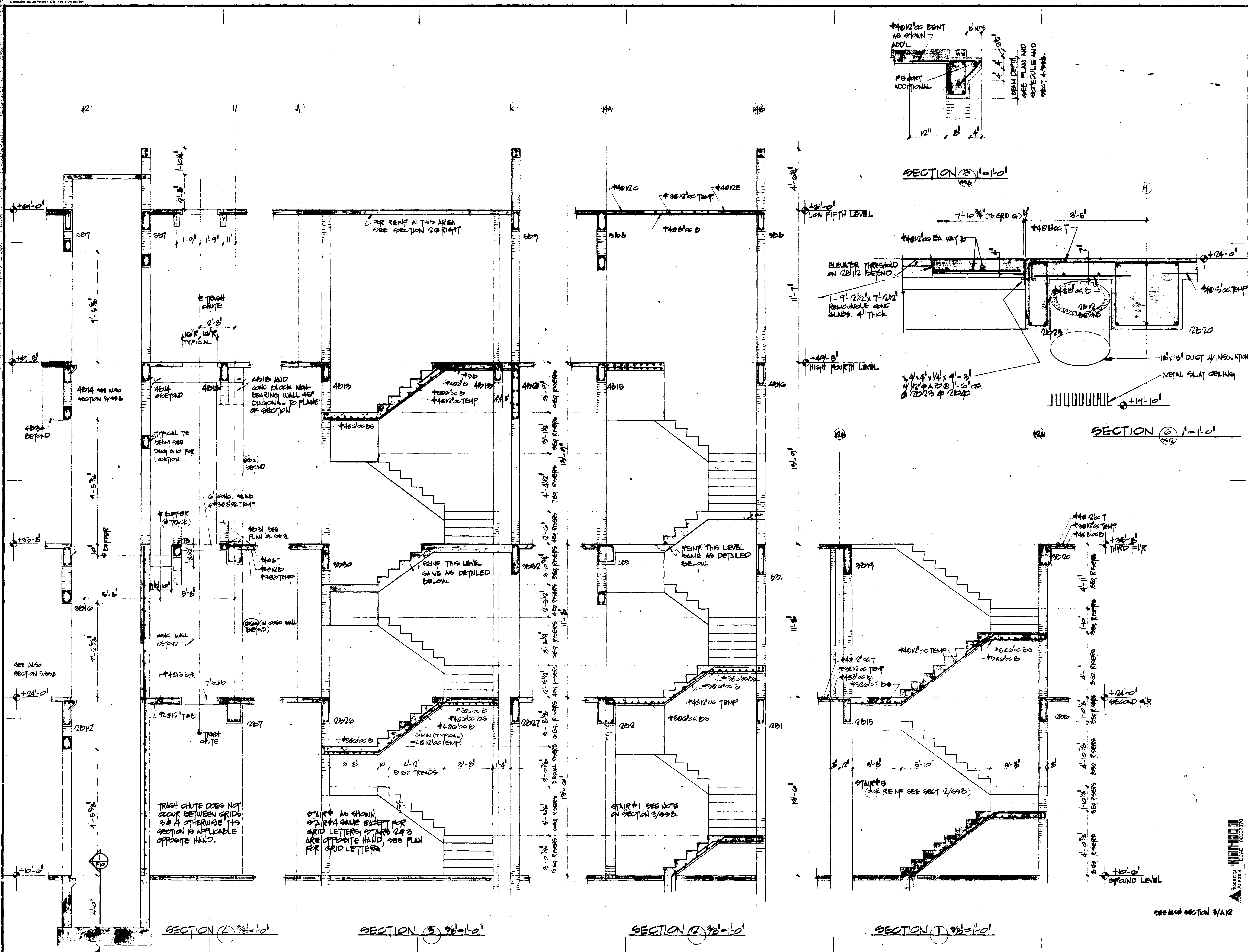
FOURTH LEVEL CONG BEAM SCHEDULE table listing beam marks, sizes, reinforcement, and remarks for the fourth level.

FIFTH LEVEL CONCRETE BEAM SCHEDULE table listing beam marks, sizes, reinforcement, and remarks for the fifth level.

HOR

SATELLITE TRANSIT SHUTTLE MIAMI INTERNATIONAL AIRPORT DEPARTMENT DADE COUNTY AVIATION DEPARTMENT D.C.A.D. CONTRACT 4-14-2B

TRANSIT STATION SATELLITE SCHED. GEN. NOTES & DET. AS SHOWN. Includes revision table and sheet number SS-7 SCHEDULE II.



HOR

SATELLITE TRANSIT SHUTTLE
 MIAMI INTERNATIONAL AIRPORT
 DADE COUNTY AVIATION DEPARTMENT
 D.C.A.D. CONTRACT 4-14-2B

Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.

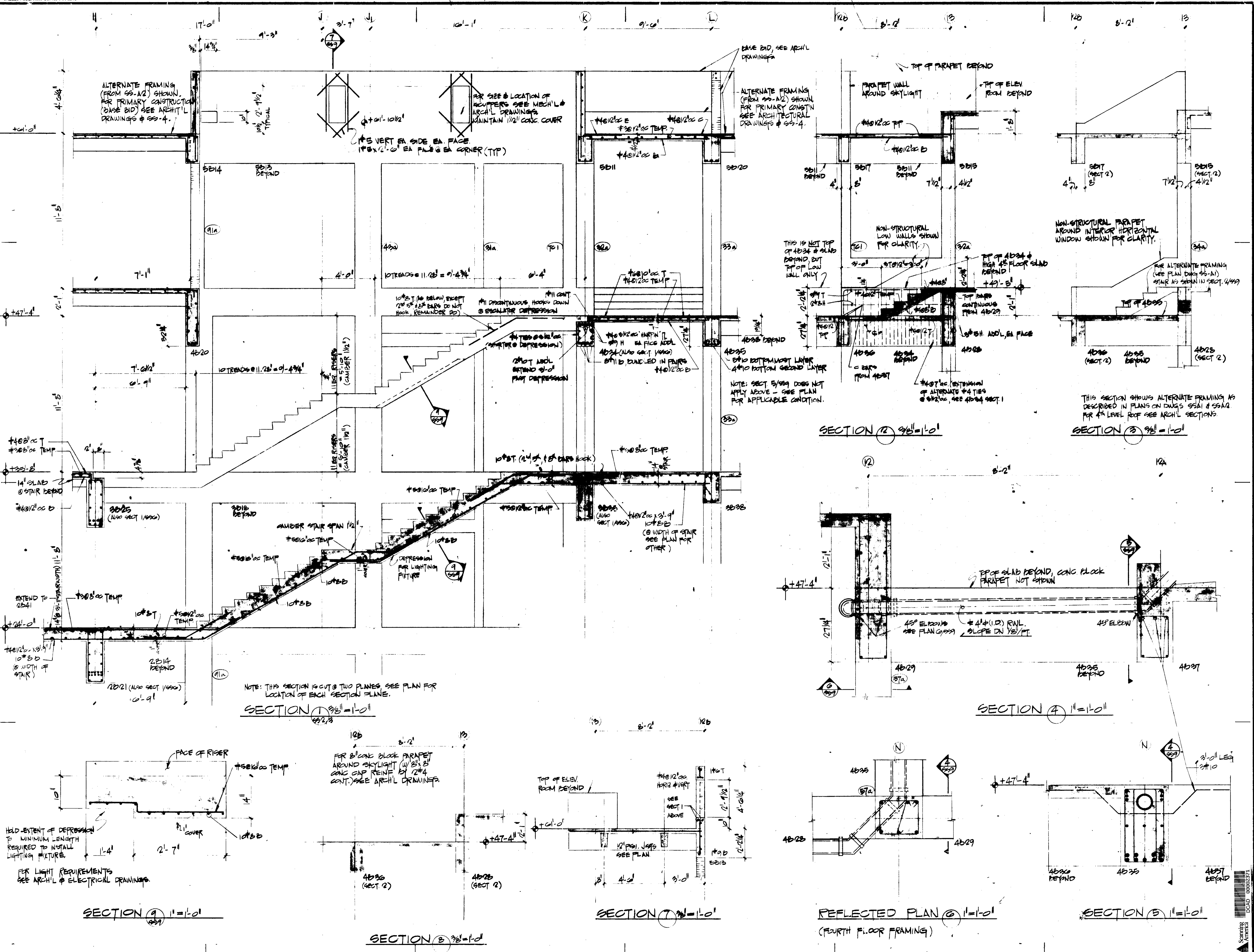
TRANSIT STATION SATELLITE STAIRS SECTIONS & DETAILS	Date
Scale	JULY 10, 1975
Revisions	
AS BUILT	June 79
Sheet	
SS-8	
SCHEDULE II	

210-9

HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-28

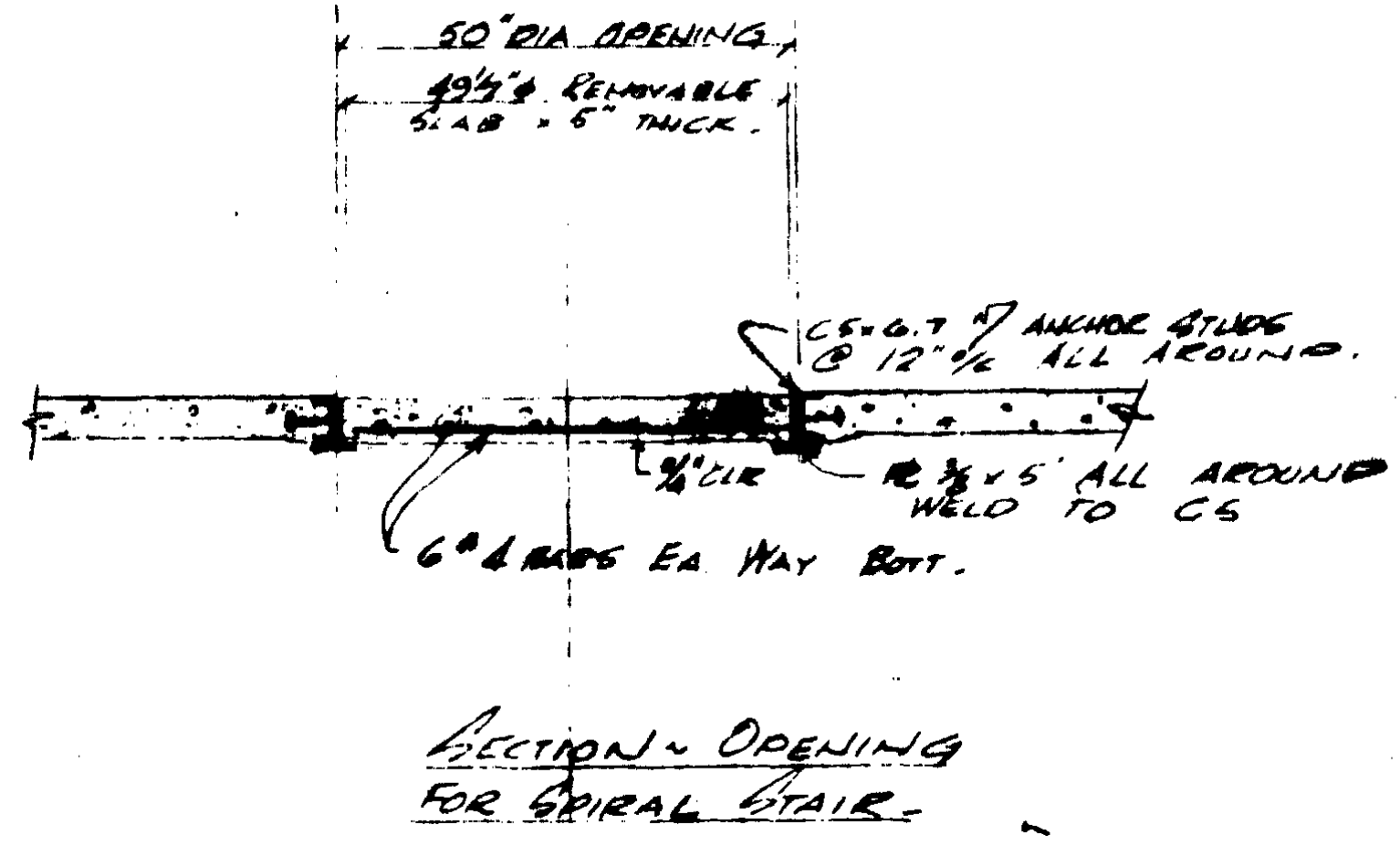
Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.



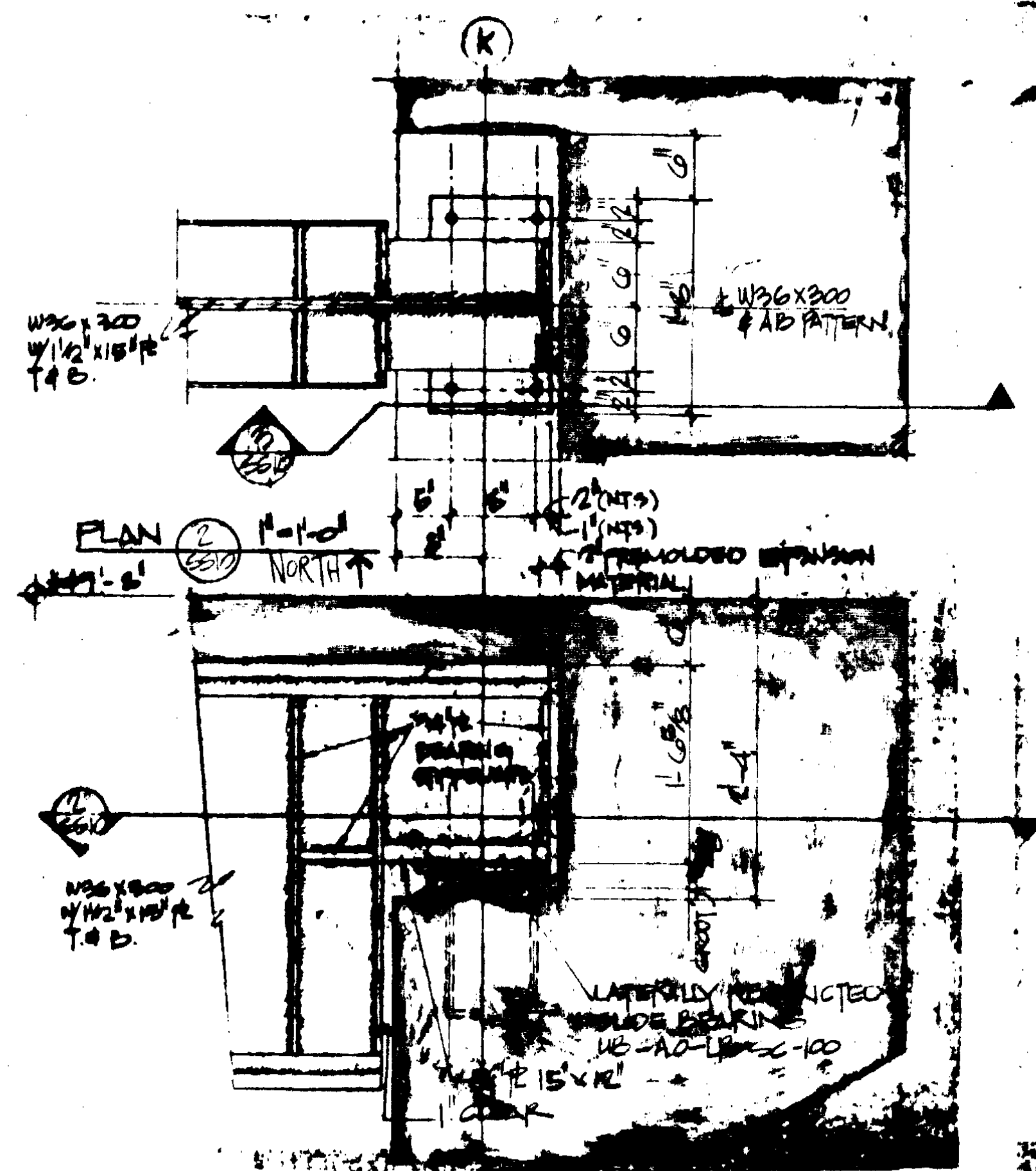
TRANSIT STATION SATELLITE STAIR SECTIONS & DETAILS	Date	JULY 18, 1975
Scale		
Revisions	AS BUILT 7/1/79	

Sheet	SS-9
SCHEDULE II	

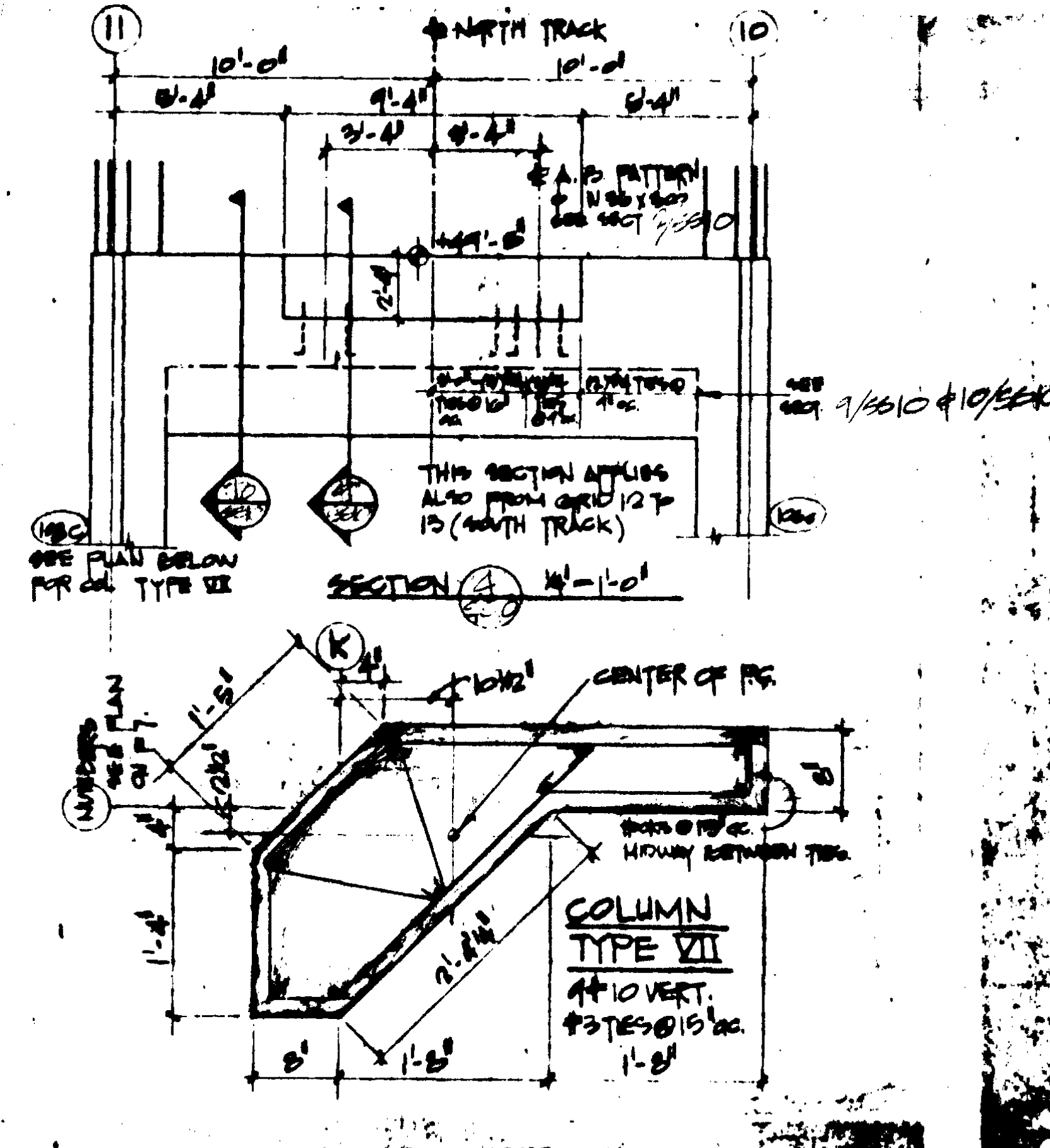
218-9



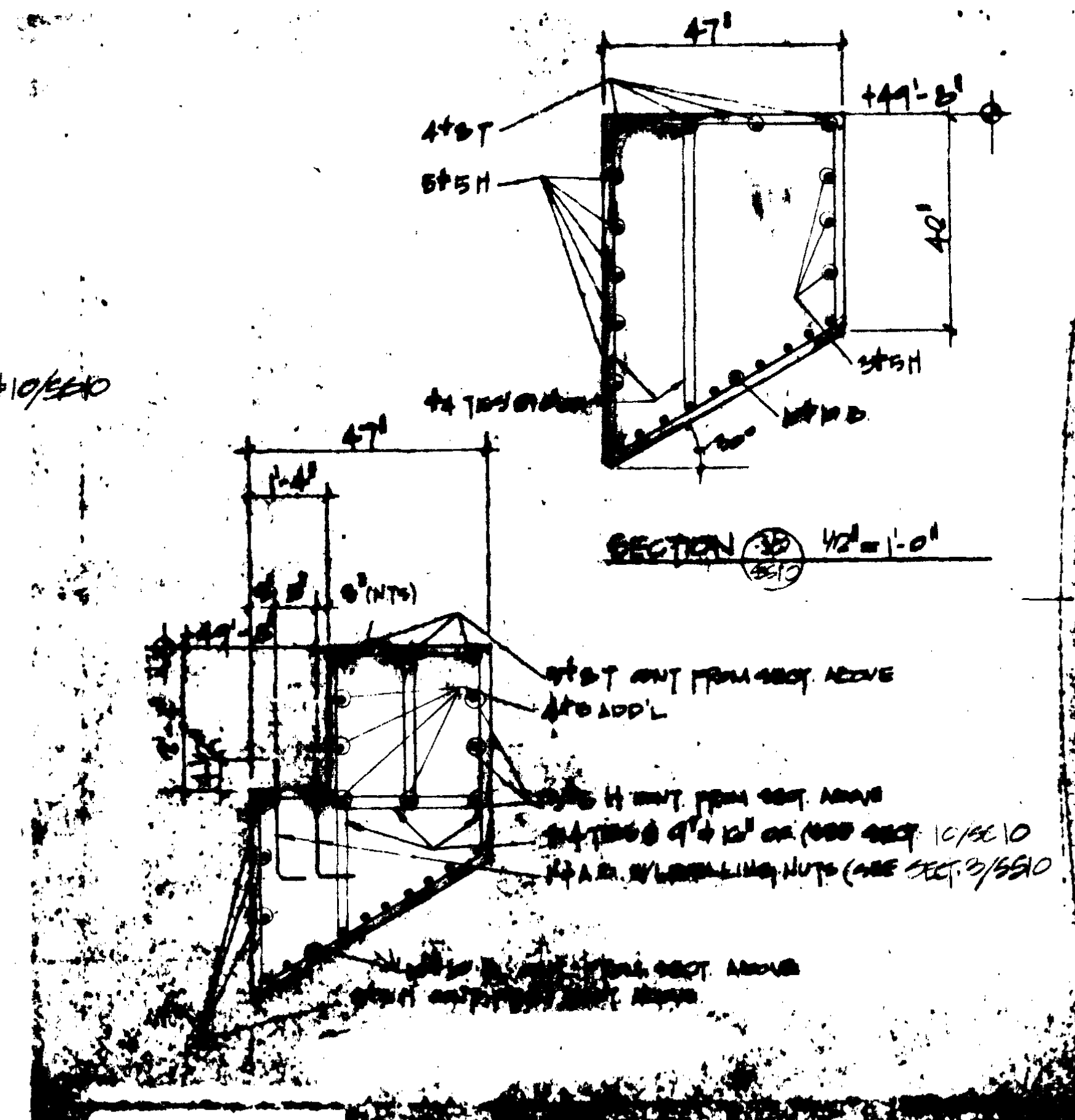
SECTION 1 NTS



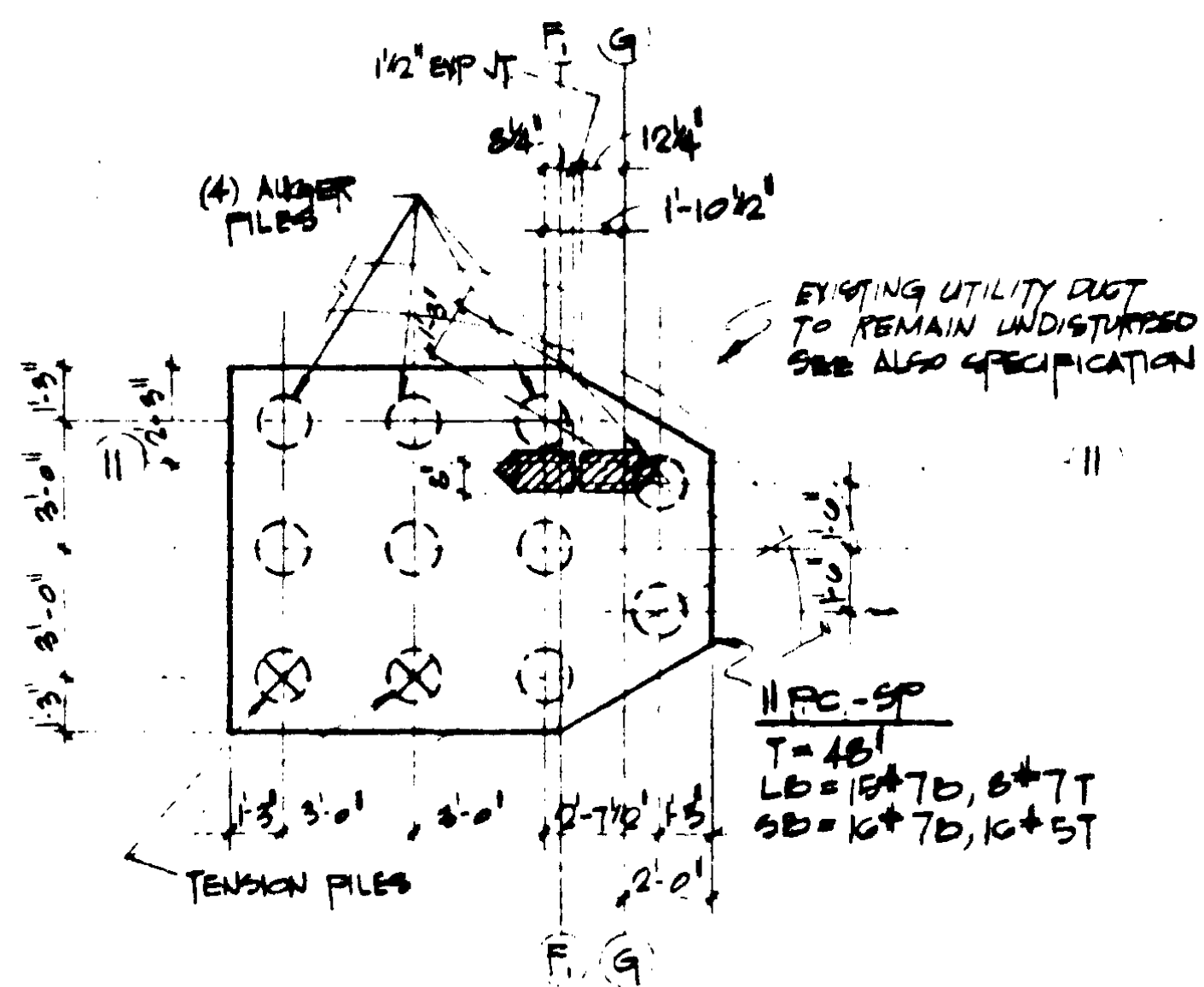
SECTION 2 1/2\"/>



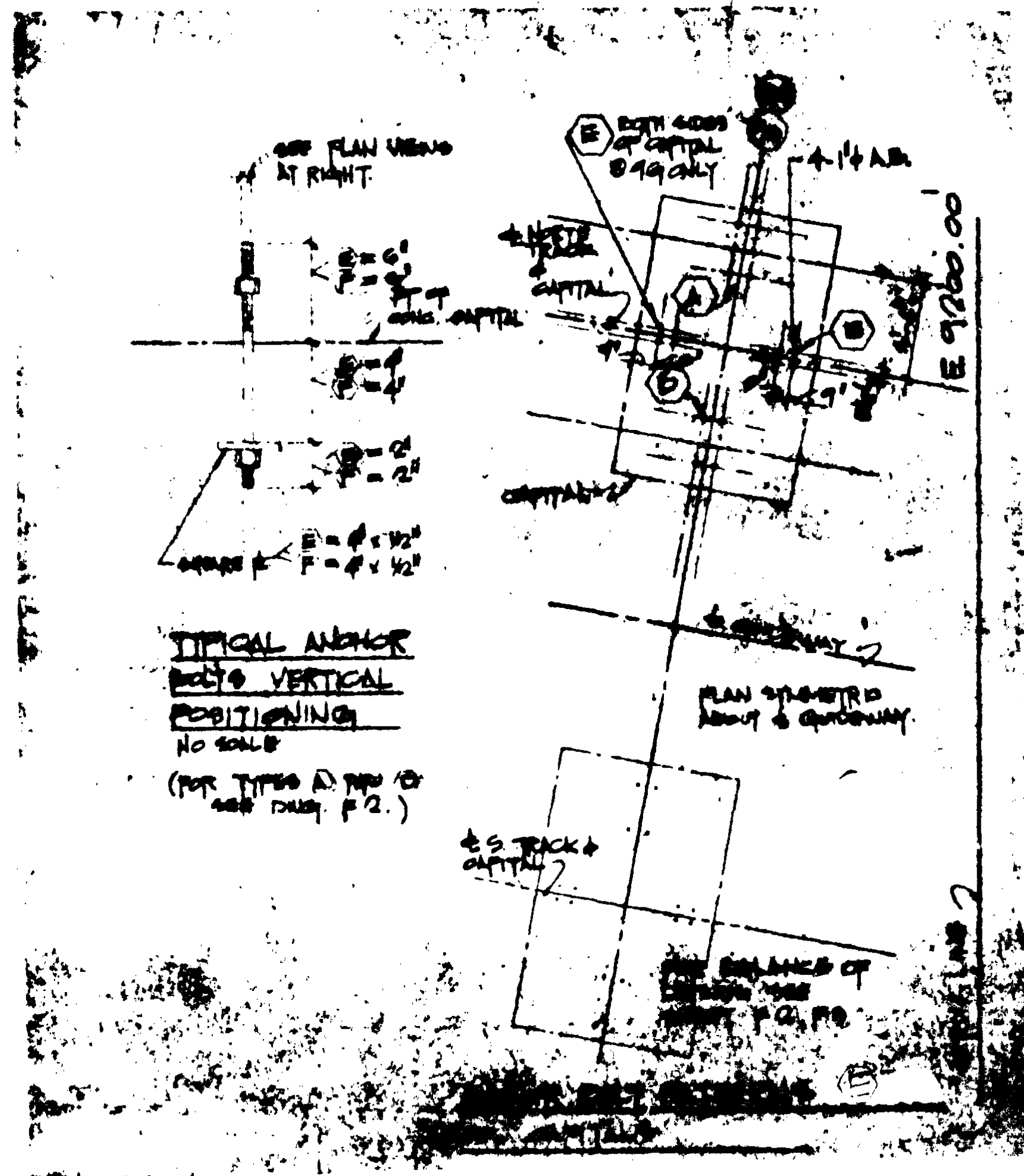
PLAN COLUMN TYPE VII 1\"/>



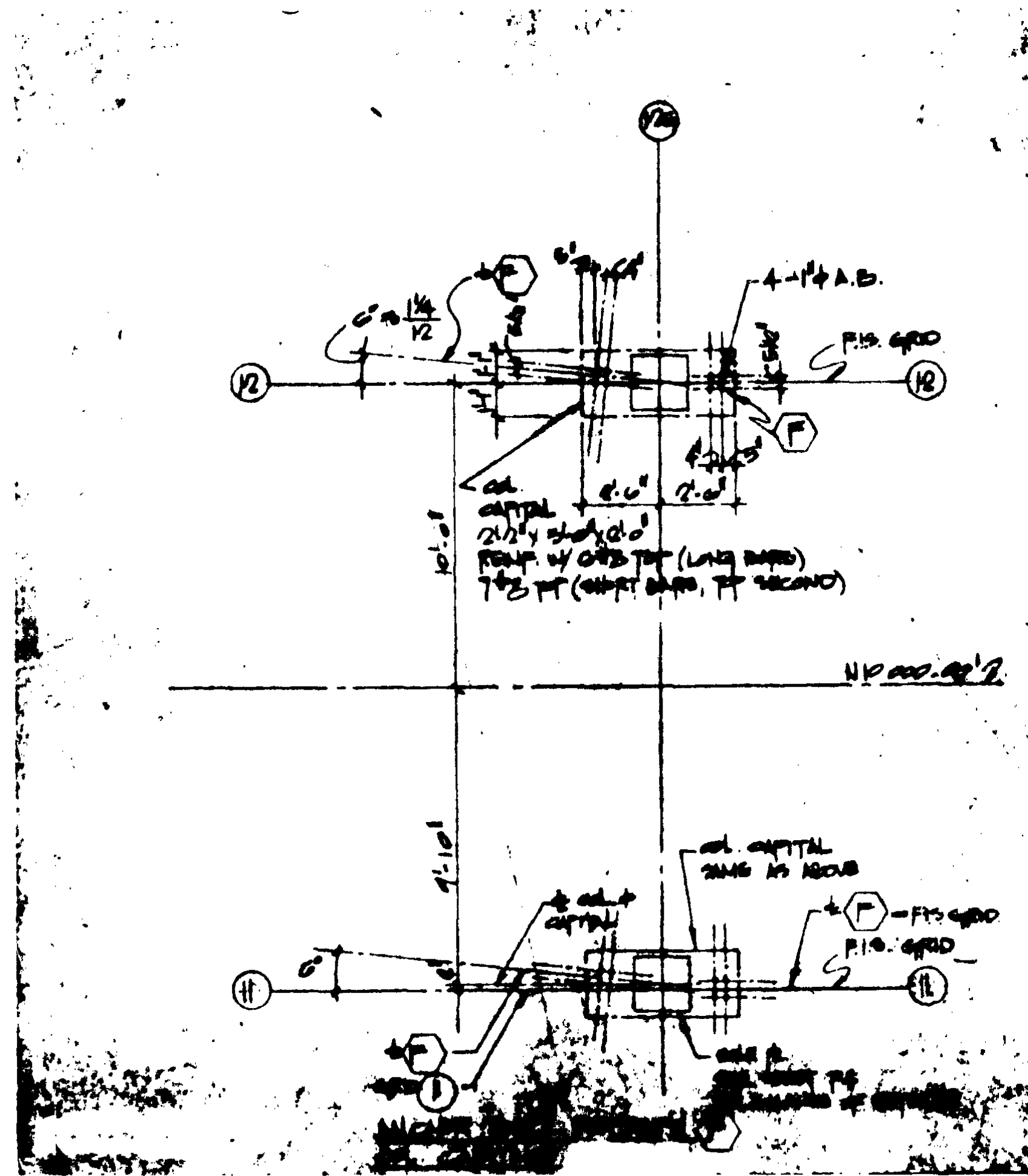
SECTION 3 1/2\"/>



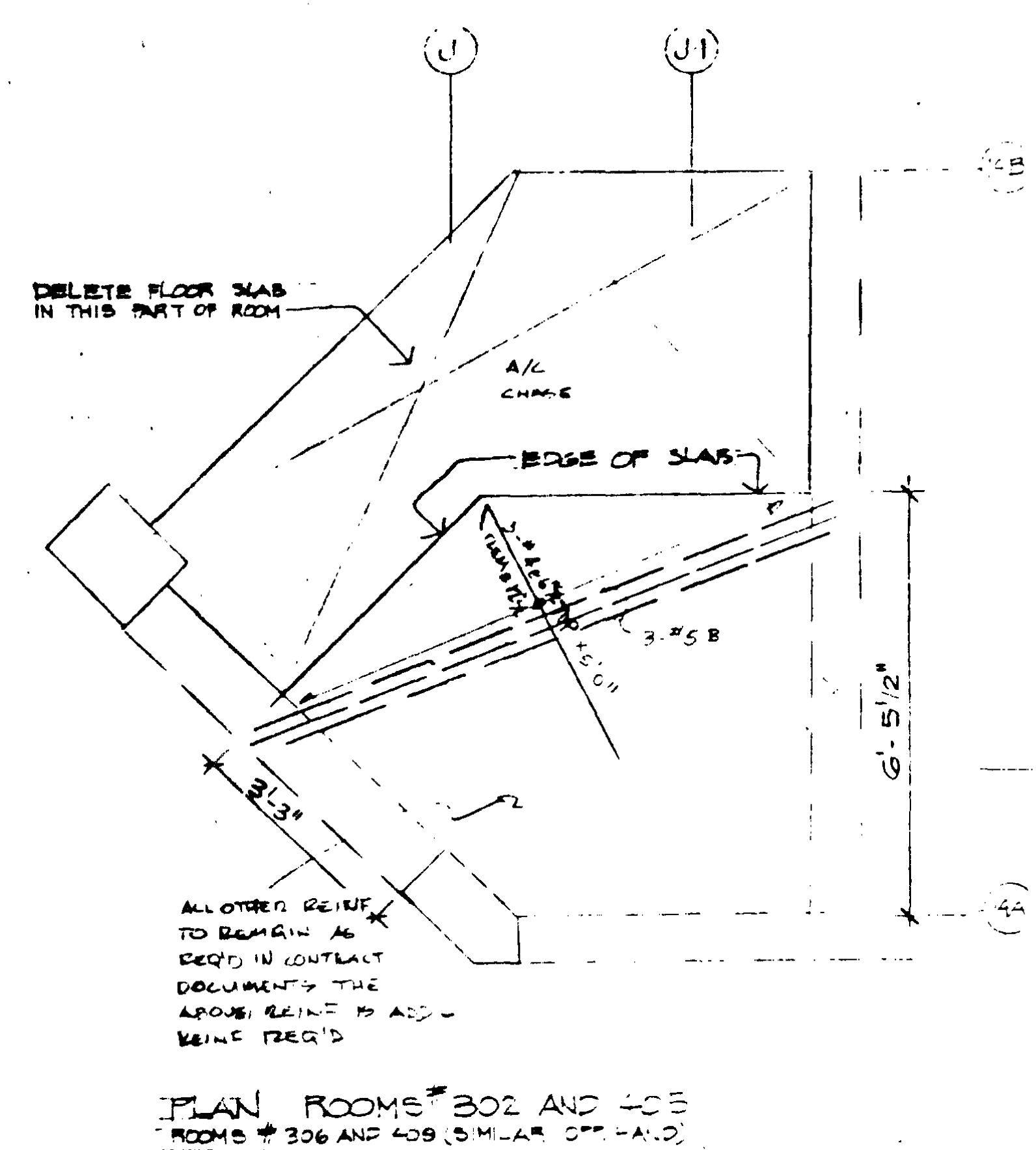
DETAIL PLAN 5 1/2\"/>



DETAIL PLAN 6 1/2\"/>



DETAIL PLAN 7 1/2\"/>



PLAN 8 1/2\"/>

HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

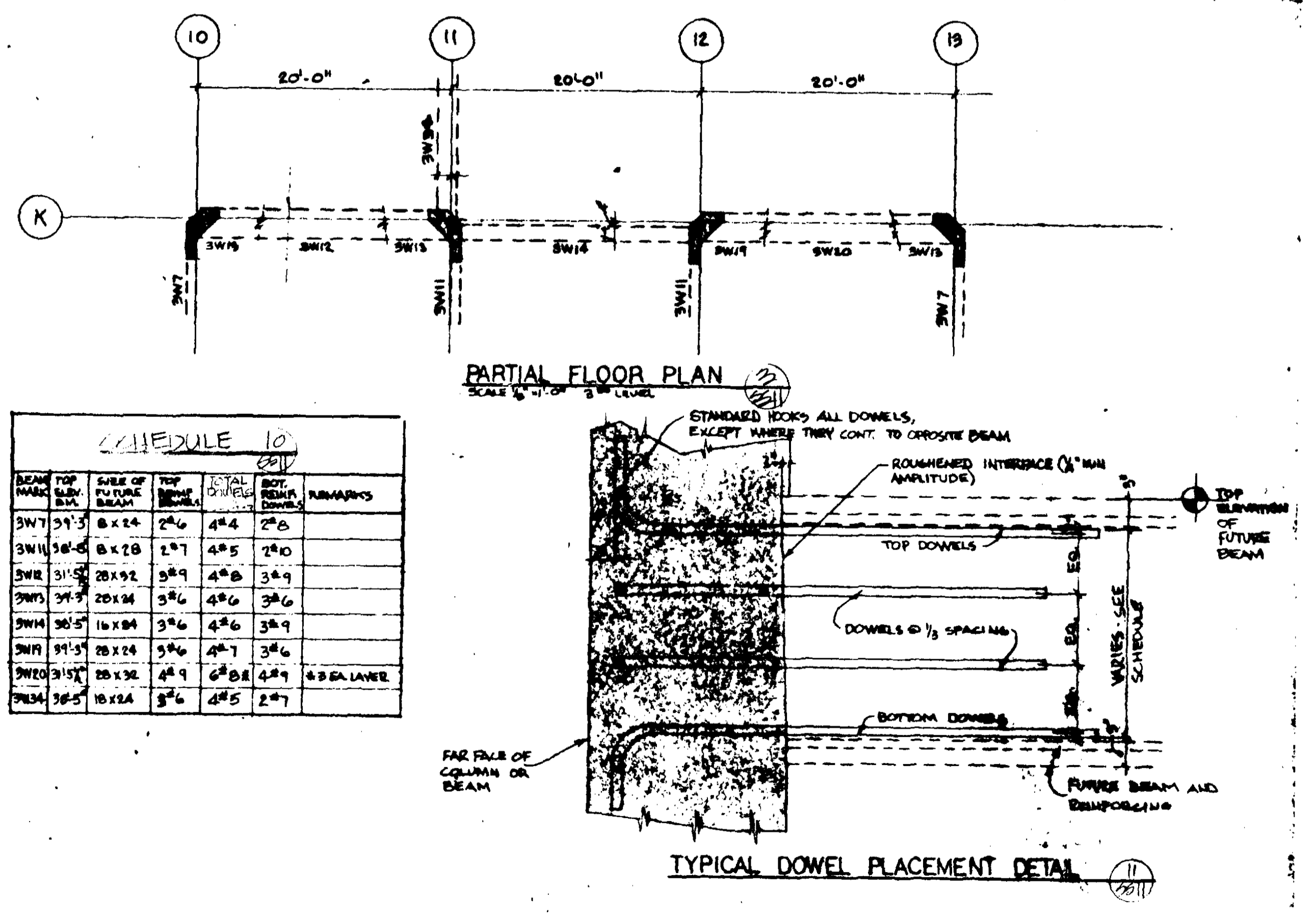
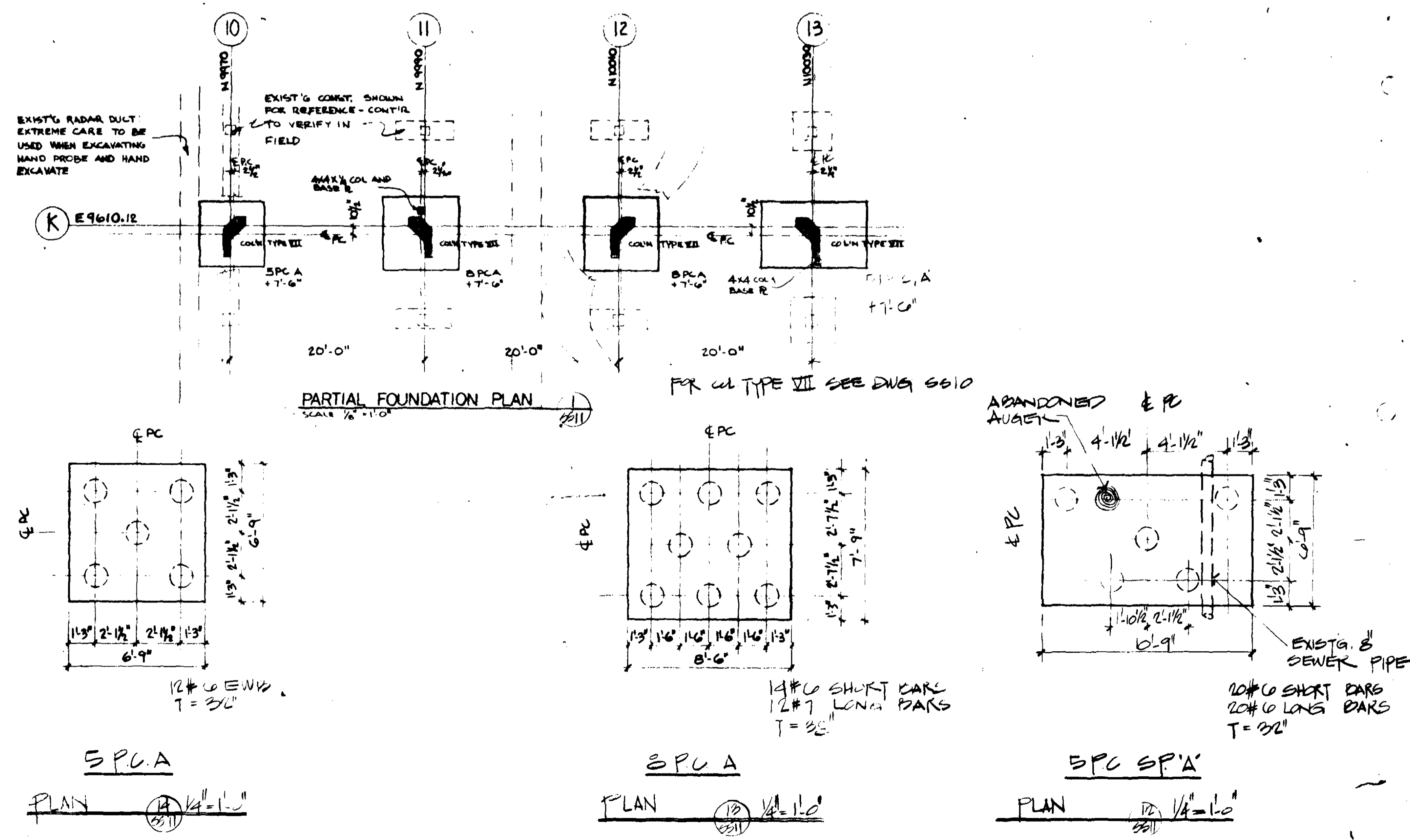
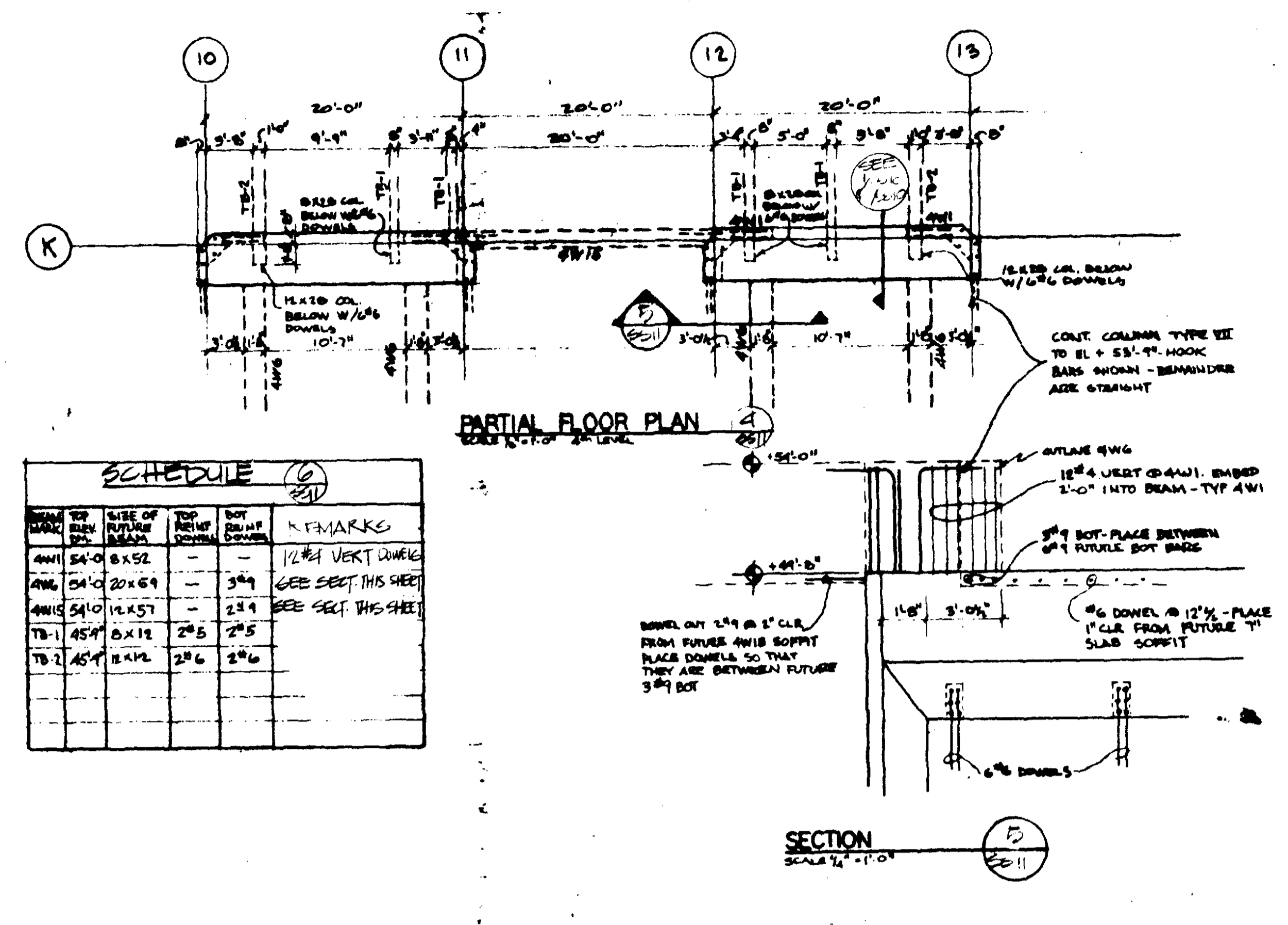
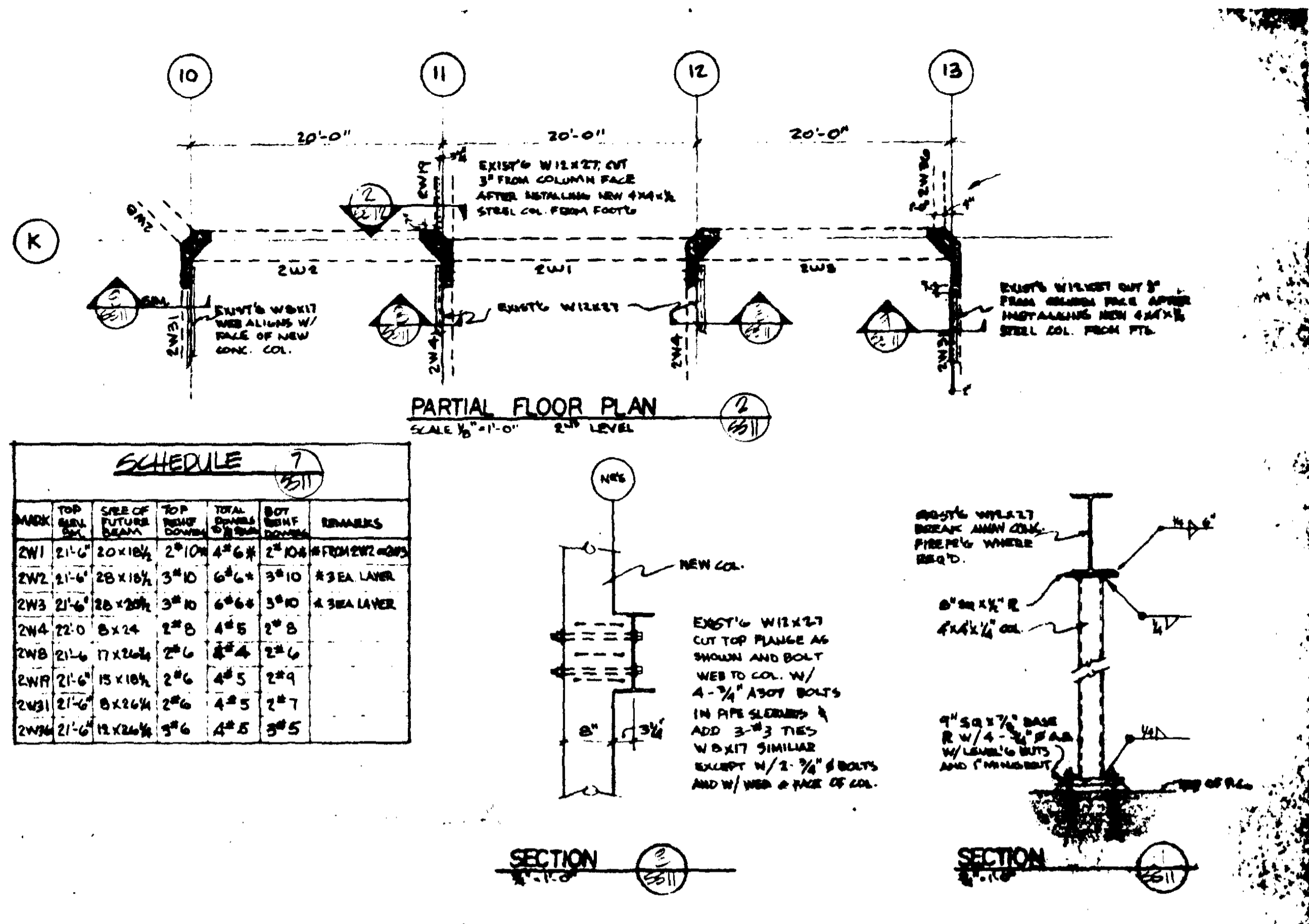
Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.

SECTIONS & DETAILS	D.W.
SCALE AS SHOWN	
REVISIONS	
AS 2-5-74	UNITE 74
Sheet	
SS-10	
SCHEDULE II	

HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-28

Harry, Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2780 Douglas Road, Coral Gables, Florida 33134.



SECTIONS & DETAILS
Scale AS SHOWN
Revisions
AS BUILT 7/26/71

Date

Sheet
SS-II

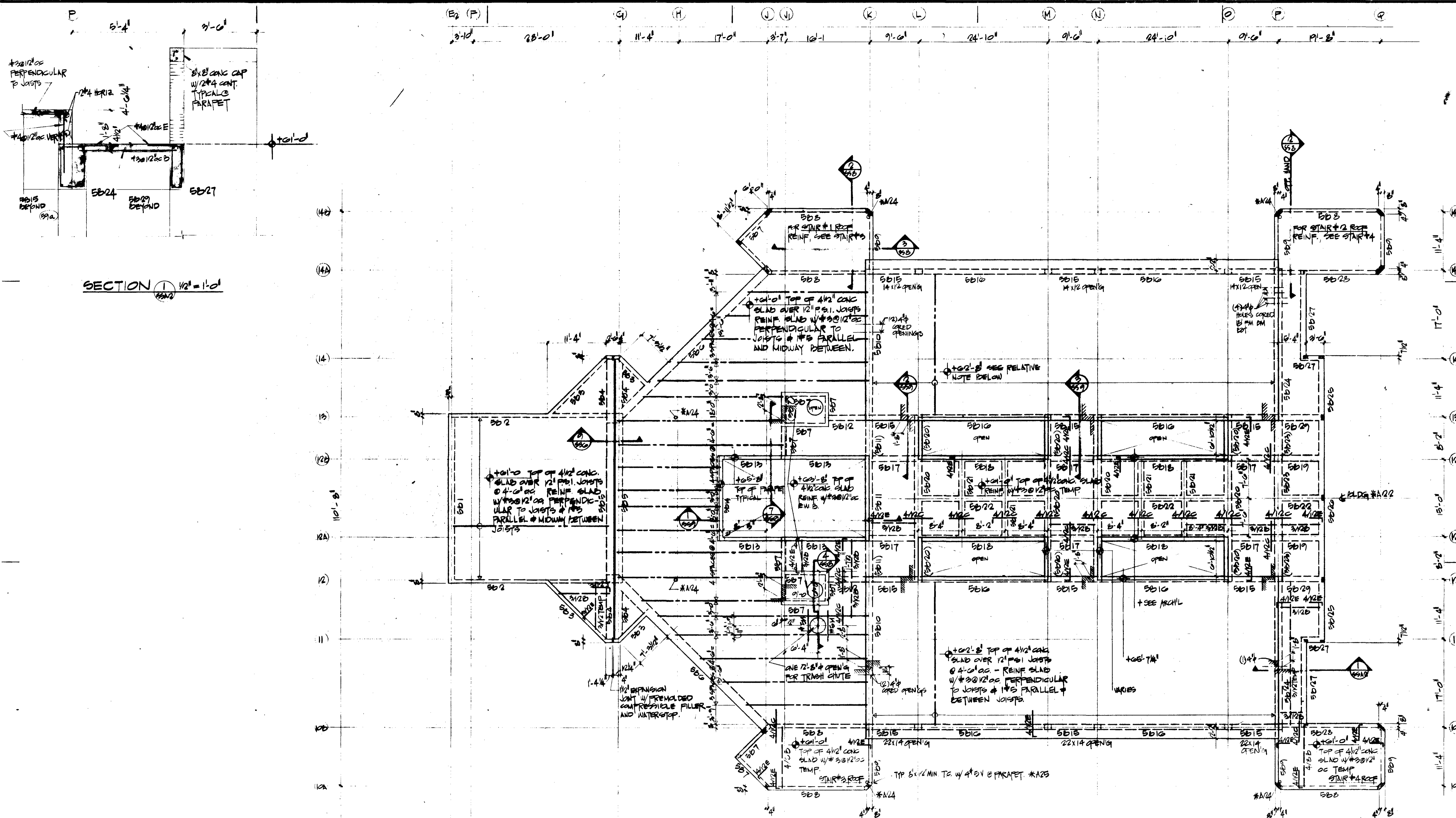
SCHEDULE II

2/10-9

HOR

SATELLITE TRANSIT SHUTTLE
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY AVIATION DEPARTMENT
D.C.A.D. CONTRACT 4-14-2B

Harry Oppenheimer, Ross, and Associates, Architecture, Engineering, and Planning, 2730 Douglas Road, Coral Gables, Florida 33134.



SECTION 1 1/2\"/>

PLAN 1/8\"/>

NOTES *A23

- *A21 THE ABOVE PLAN IS AN ALTERNATE TO THE ROOFS OF ELEVATION + 60'-0" SHOWN ON DRAWING SS-4. THE ABOVE FRAMING IS INTENDED AS AN OPTION OR ALTERNATE NOT AN ADDITION.
- *A22 THIS FRAMING PLAN IS SYMMETRIC ABOUT THE EAST-WEST & EXCEPT AS NOTED - DATA ON NORTH HALF OF BUILDING ALSO APPLIES TO SOUTH HALF AND VICE-VERSA.
- *A23 FOR GENERAL STRUCTURAL NOTES SEE DWG SS-1.
- *A24 FOR ROOF DRAIN SCUPPERS & SLOPES OF LIGHT-WEIGHT CONC SEE MECH'L & ARCH'L DRAWINGS.
- *A25 8" THICK IN-SITU CONC PARAPETS ARE SHOWN IN PLAN. FOR CONC BLOCK PARAPETS W/ 2" CONC CAP (REIN. BY 2#5 CONT.) SEE ARCH'L DRAWINGS.

Date	Revisions
JULY 10, 1975	AS BUILT 7 JUNE 79

Sheet
SS-A2
SCHEDULE II

218-9

AS BUILT

GENERAL NOTES

CONTRACTOR TO PATCH AND REPAIR PER SPECIFICATIONS OPENING CREATED ON EXPOSED BY WORK WITHIN THE SCOPE OF THIS PROJECT INCLUDING STRUCTURAL MEMBER, PIPING, CONDUIT PENETRATIONS AT EXISTING BUILDING SURFACES.

POLLUTION CONTROL

DURING ALL CLEANING OPERATIONS, THE CONTRACTOR SHALL ISOLATE THE IMMEDIATE AREA OF THE GUIDEWAY STRUCTURE WITH APPROPRIATE CONTAINMENT DEVICES (CANVASES, TARPULINS, PLASTIC DRAPES) TO ENSURE COMPLIANCE WITH CURRENT GOVERNMENT AIR AND WATER POLLUTION REGULATIONS, SOIL POLLUTION GUIDELINES AND TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC. DURING CLEANING OPERATIONS CONTAINMENT SCREENS SHALL BE ERRECTED TO PREVENT ANY MATERIAL FROM DAMAGING PROPERTY. UNDER NO CIRCUMSTANCES SHALL ANY DEBRIS BE ALLOWED TO FALL OUTSIDE CONTAINMENT.

IF ANY ACCIDENTAL SPILL OCCURS, THE CONTRACTOR SHALL CONTACT DCAD CONSTRUCTION INSPECTION OFFICE FOR IMMEDIATE EVALUATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY CLEANUP DUE TO ACCIDENTAL SPILL, OVERSPRAY, ETC., AND ALL WORK AND LIABILITY ASSOCIATED WITH THE CLEANUP EFFORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CLASSIFICATION, PACKAGING, STORAGE, TRANSPORTATION, AND DISPOSAL OF ALL DEBRIS, IN ACCORDANCE WITH SSPC GUIDE 7 (DIS) GUIDE FOR THE DISPOSAL OF LEAD-CONTAMINATED SURFACE PREPARATION DEBRIS AND CURRENT GOVERNMENT REGULATIONS AND GUIDELINES. THE CONTRACTOR SHALL SUBMIT A WRITTEN POLLUTION CONTROL PROGRAM AT THE PRE-CONSTRUCTION CONFERENCE WHICH EFFECTIVELY AND CLEARLY COMMUNICATES THE MEANS FOR COMPLYING WITH ALL ENVIRONMENTAL GOVERNMENT REGULATIONS AND POLLUTION CONTROL PROVISIONS. THIS PROGRAM SHALL INCLUDE, BUT NOT BE LIMITED TO, DETAIL CALCULATIONS FOR VENTILATION EQUIPMENT SIZING AND APPROPRIATE CROSS DRAFT VELOCITY, MATERIAL SELECTION, AND CONTAINMENT SYSTEM WIND LOAD.

AMBIENT AIR QUALITY COMPLIANCE: THE CONTRACTOR SHALL COMPLY WITH 40 CFR 50, "NATIONAL PRIMARY AND SECONDARY AMBIENT AIR QUALITY STANDARDS" (NAAQOS) AND THE CLEAN AIR ACTS OF 1977 AND 1990. DO NOT EXCEED 150 UG/M3 OF FUGITIVE RESPIRABLE DUST EMISSIONS AVERAGED OVER A 24 HOUR PERIOD.

IDENTIFICATION OF WASTE

THE CONTRACTOR IS RESPONSIBLE FOR THE LEGAL DISPOSAL OF ALL HAZARDOUS AND NON-HAZARDOUS WASTE. THE CONTRACTOR SHALL SUBMIT THE NAME, ADDRESS, AND QUALIFICATIONS OF TRANSPORTER AND TREATMENT FACILITY, AND PROPOSED TREATMENT AND DISPOSAL METHODS FOR APPROVAL BY THE ENGINEER BEFORE THE TRANSPORTATION, TREATMENT, OR DISPOSAL OF ANY HAZARDOUS WASTE.

HAZARDOUS WASTE SHALL BE TRANSPORTED FROM THE TEMPORARY STORAGE AREA TO AN APPROVED HAZARDOUS WASTE TREATMENT FACILITY IN ACCORDANCE WITH 40 CFR 263, STANDARDS APPLICABLE TO TRANSPORTERS OF HAZARDOUS WASTES.

THE CONTRACTOR SHALL ENSURE HAZARDOUS WASTE IS PROPERLY TREATED TO MEET ALL GOVERNMENTAL REGULATIONS PRIOR TO DISPOSAL. DCAD SHALL BE PROVIDED WITH ALL WASTE MANIFESTS, CERTIFICATES OF DISPOSAL, AND OTHER APPLICABLE DOCUMENTS WITHIN 21 DAYS OF EACH SHIPMENT.

LBP.

NOTE: IT HAS BEEN DETERMINED THAT THE EXISTING PAINT SYSTEM ON THESE STRUCTURES CONTAINS LEAD.

THE CONTRACTOR SHALL BE AWARE THAT LEAD-BASED PAINT(LBP)IS PRESENT ON THE STRUCTURAL STEEL MEMBERS ASSOCIATED WITH THE CONCOURSE E SHUTTLE. LIMITED REMOVAL OF LBP FROM AFFECTED SURFACES HAS PREVIOUSLY BEEN PERFORMED AT ACCESSIBLE LOCATIONS WHERE SCHEDULED CONSTRUCTION ACTIVITIES WOULD LIKELY HAVE DISTURBED THE PAINT. SHOULD ADDITIONAL AREAS BE IMPACTED DURING THE COURSE OF CONSTRUCTION WHERE LBP HAS NOT PROPERLY BEEN REMOVED, THE CONTRACTOR SHALL MAKE PROVISIONS TO WORK AROUND THESE AREAS AND COORDINATE WITH THE ON-SITE PROJECT MANAGER/ENGINEER TO HAVE THE AREA PROPERLY ABATED. CONTRACTOR SHALL PROVIDE 24 HOUR NOTICE TO ON-SITE PROJECT MANAGER/ENGINEER FOR SCHEDULING AND PERFORMANCE OF SUCH ABATEMENT.

CONTAINMENT SYSTEM

THE CONTRACTOR SHALL CONSTRUCT, ERECT, AND MAINTAIN A CONTAINMENT SYSTEM THAT ENSURES COMPLIANCE OF ALL FEDERAL, STATE AND LOCAL GOVERNMENT ENVIRONMENTAL AND WORKER SAFETY REGULATIONS. AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT AS PART OF THE WRITTEN POLLUTION CONTROL PROGRAM, FOR APPROVAL BY THE DEPARTMENT, SHOP DRAWINGS DETAILING CONTAINMENT SCREEN ERECTION AND CONTAINMENT MATERIAL SAMPLES.

IN THE EVENT THE CONTRACTOR VIOLATES ANY ENVIRONMENTAL GOVERNMENT REGULATIONS OR FAILS TO PROPERLY EXECUTE ANY POLLUTION CONTROL PROVISIONS, THE ENGINEER SHALL HAVE THE AUTHORITY TO IMMEDIATELY CEASE ALL OPERATIONS ASSOCIATED WITH THE INFRACTION. OPERATIONS WILL ONLY RESUME AFTER WRITTEN PROPOSED CORRECTIVE PROCEDURES HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL ALSO COMPLY WITH THE FOLLOWING PROVISIONS FROM THE CODE OF FEDERAL REGULATIONS END THE ENVIRONMENTAL PROTECTION AGENCY, AT A MINIMUM, AND ALL REQUIREMENTS CONTAINED IN THE CLEAN AIR ACTS OF 1977 AND 1990:

CODE OF REDRAL REGULATIONS

Table with 2 columns: NUMBER, TOPIC. Lists various CFR regulations such as 29 CFR 1910.134, 29 CFR 1910.252, 40 CFR 261.24, etc.

WORKER SAFETY

CLADDING ON THE GUIDEWAY HAS BEEN REMOVED PARTIALLY DUE TO OTHER CONTRACT WORK, THEREFORE CONTRACTORS SHALL SURVEY THE WORK AREA PRIOR TO START OF WORK, TO DETERMINE CONFINED SPACE PERMIT NEEDS. SHOULD IT BE NECESSARY TO ISSUE A CONFINED SPACE PERMIT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, LABOR AND EQUIPMENT RELATED TO THIS WORK, IN ADDITION TO THE PERMITTING PROCESS. OSHA 1926.21(b) (6) i; AND ii.

ALL APPLICABLE GOVERNMENTAL REGULATIONS TO ENSURE WORKER SAFETY SHALL BE FOLLOWED. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) GUIDELINES FOR THIS PROJECT INCLUDE: FACT SHEET NO. TOPIC

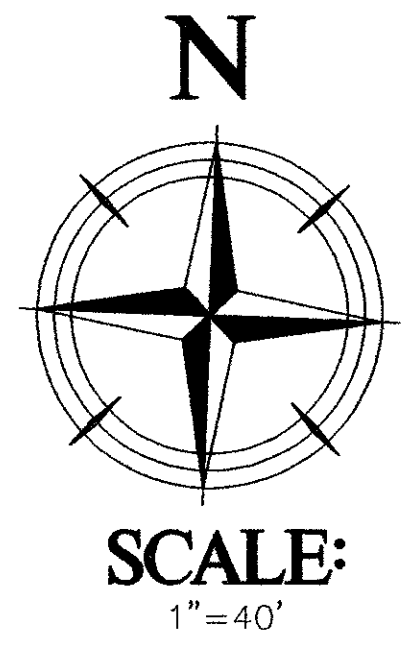
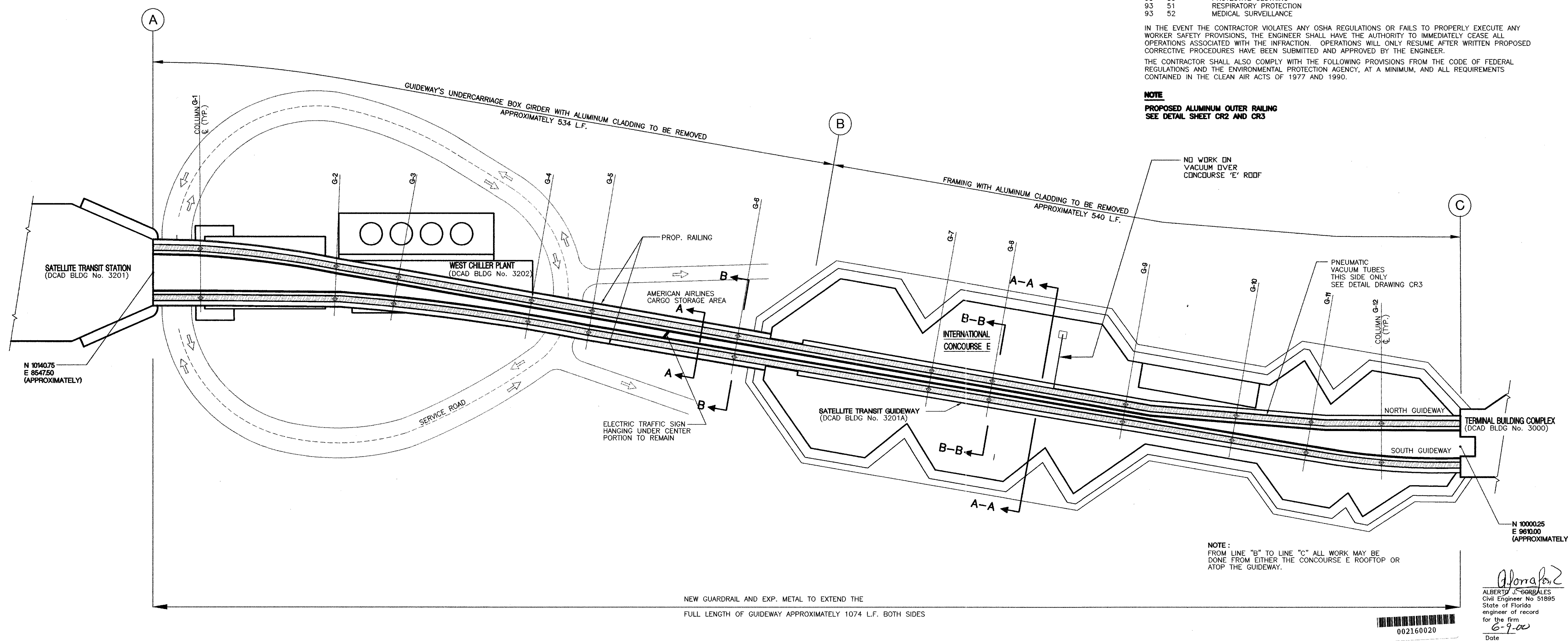
Table with 2 columns: NUMBER, TOPIC. Lists safety topics such as 93 47 WORKER PROTECTION, 93 48 ENGINEERING CONTROLS, etc.

IN THE EVENT THE CONTRACTOR VIOLATES ANY OSHA REGULATIONS OR FAILS TO PROPERLY EXECUTE ANY WORKER SAFETY PROVISIONS, THE ENGINEER SHALL HAVE THE AUTHORITY TO IMMEDIATELY CEASE ALL OPERATIONS ASSOCIATED WITH THE INFRACTION. OPERATIONS WILL ONLY RESUME AFTER WRITTEN PROPOSED CORRECTIVE PROCEDURES HAVE BEEN SUBMITTED AND APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL ALSO COMPLY WITH THE FOLLOWING PROVISIONS FROM THE CODE OF FEDERAL REGULATIONS AND THE ENVIRONMENTAL PROTECTION AGENCY, AT A MINIMUM, AND ALL REQUIREMENTS CONTAINED IN THE CLEAN AIR ACTS OF 1977 AND 1990.

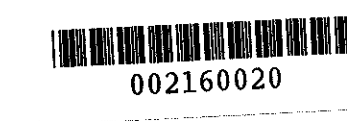
NOTE

PROPOSED ALUMINUM OUTER RAILING SEE DETAIL SHEET CR2 AND CR3

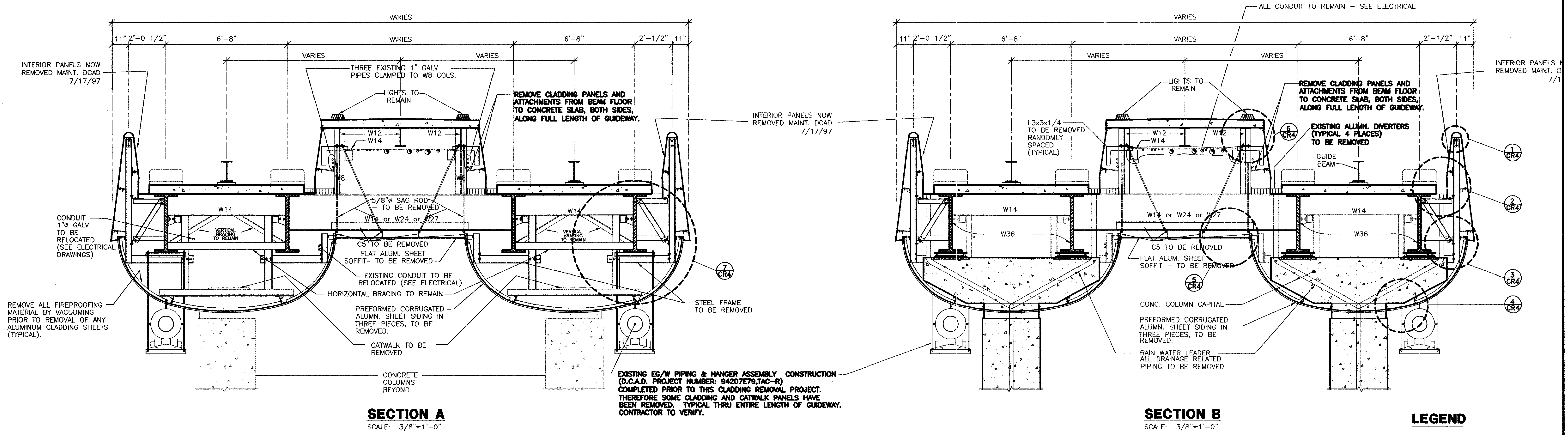


NOTE: FROM LINE "B" TO LINE "C" ALL WORK MAY BE DONE FROM EITHER THE CONCOURSE E ROOFTOP OR ATOP THE GUIDEWAY.

Signature of Albert J. Sorbales, Civil Engineer No. 51895, State of Florida, engineer of record for the firm.



Vertical sidebar containing project information: CONCURSE 'E' STS PEOPLE MOVER BRIDGE REPAIRS, DCAD PROJECT NUMBER A017B, PROJECT MANAGER: BYRON DOWELL, MIAMI INTERNATIONAL AIRPORT, and a table for date, drawn by, checked by, and file number.



SECTION A
SCALE: 3/8"=1'-0"

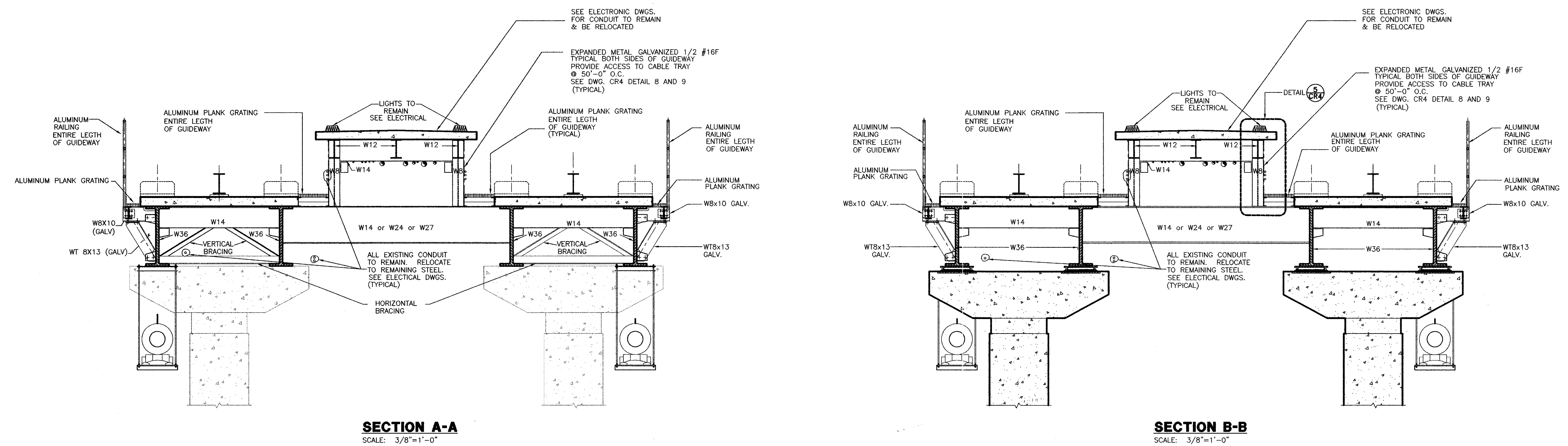
SECTION B
SCALE: 3/8"=1'-0"

EXISTING TRANSIT GUIDEWAY

LEGEND

1 CR4 = DETAIL NUMBER

1 CR4 = SHEET NUMBER



SECTION A-A
SCALE: 3/8"=1'-0"

SECTION B-B
SCALE: 3/8"=1'-0"

PROPOSED TRANSIT GUIDEWAY

AS BUILT

ALBERTO J. CORRALES
Civil Engineer No 51895
State of Florida
engineer of record
for the firm
6-9-00
Date



By	
Checked	
Date	

C.A.P. ENGINEERING CONSULTANTS, INC.
300 BRIDLE WHEEL SUITE 300 CORAL GABLES, FLORIDA 33134
TEL: 305-442-2044
FAX: 305-442-2044

CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER A017B
TELEPHONE NUMBER (305) 869 4016
DADE COUNTY, FLORIDA

CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER A017B
PROJECT MANAGER: BYRON DOWELL
MIAMI INTERNATIONAL AIRPORT

7-08-97	33	DA
date	drawn by	checked by
file number		
drawing		
CR2		
20		

G:\PROJECT DWGS\6709\6709-CR2.dwg P1 Jun 09 10:26:27 2000 LIN

ALUMINUM HANDRAIL GENERAL NOTES, MISCELLANEOUS NOTES

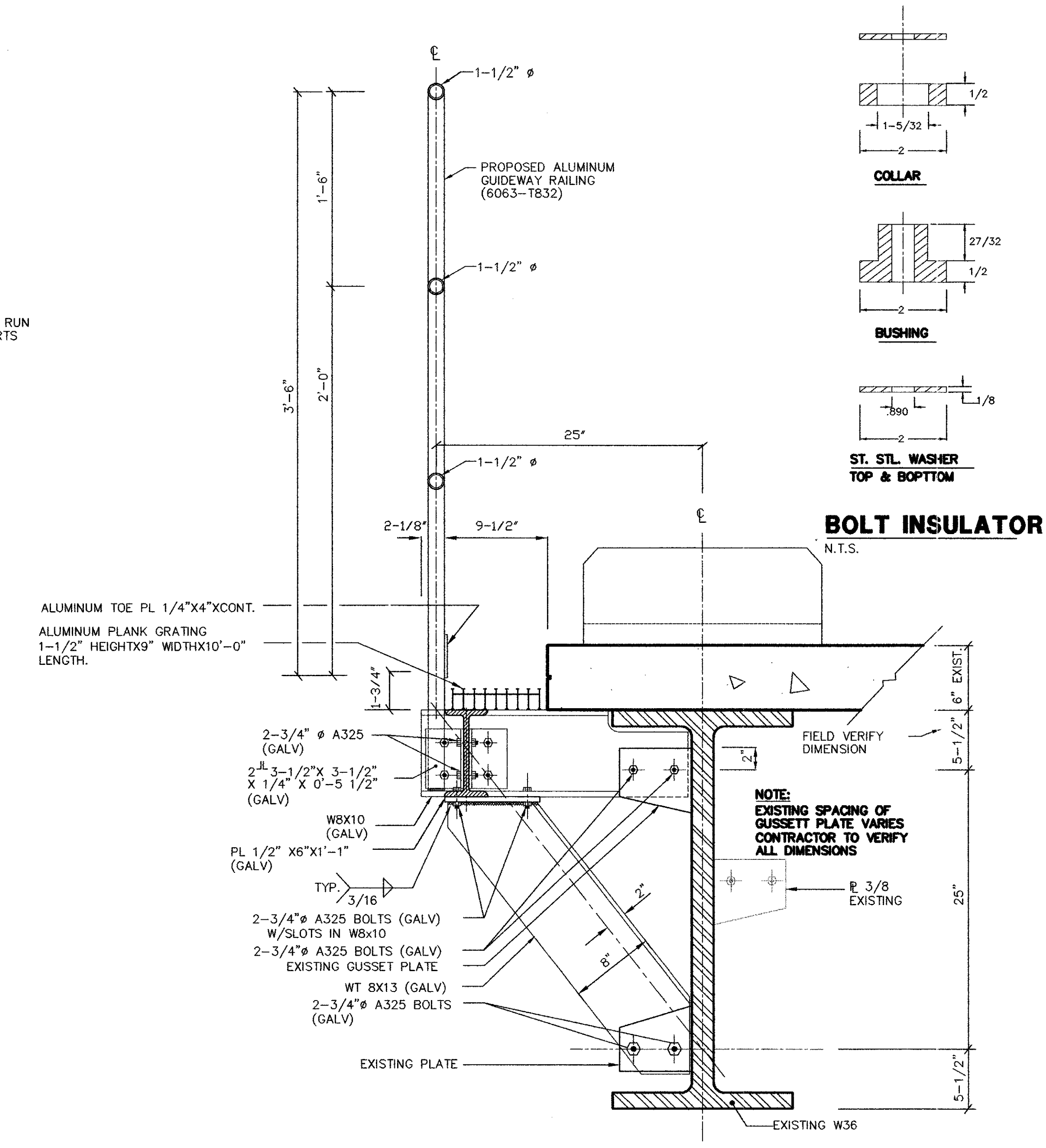
- 1) UNLESS OTHERWISE NOTED AS "PRESENT FIELD CONDITIONS," ALL PLANS, SECTIONS AND DETAILS WERE DEVELOPED FROM "SATELLITE TRANSIT SHUTTLE" ORIGINAL DESIGN PLANS DATED FEBRUARY 19, 1979, D.C.A.D. CONTRACT NO. 4-14-2B PREPARED BY HARRY, OPPENHEIMER, ROSS AND ASSOCIATES (HOR).

STRUCTURAL STEEL

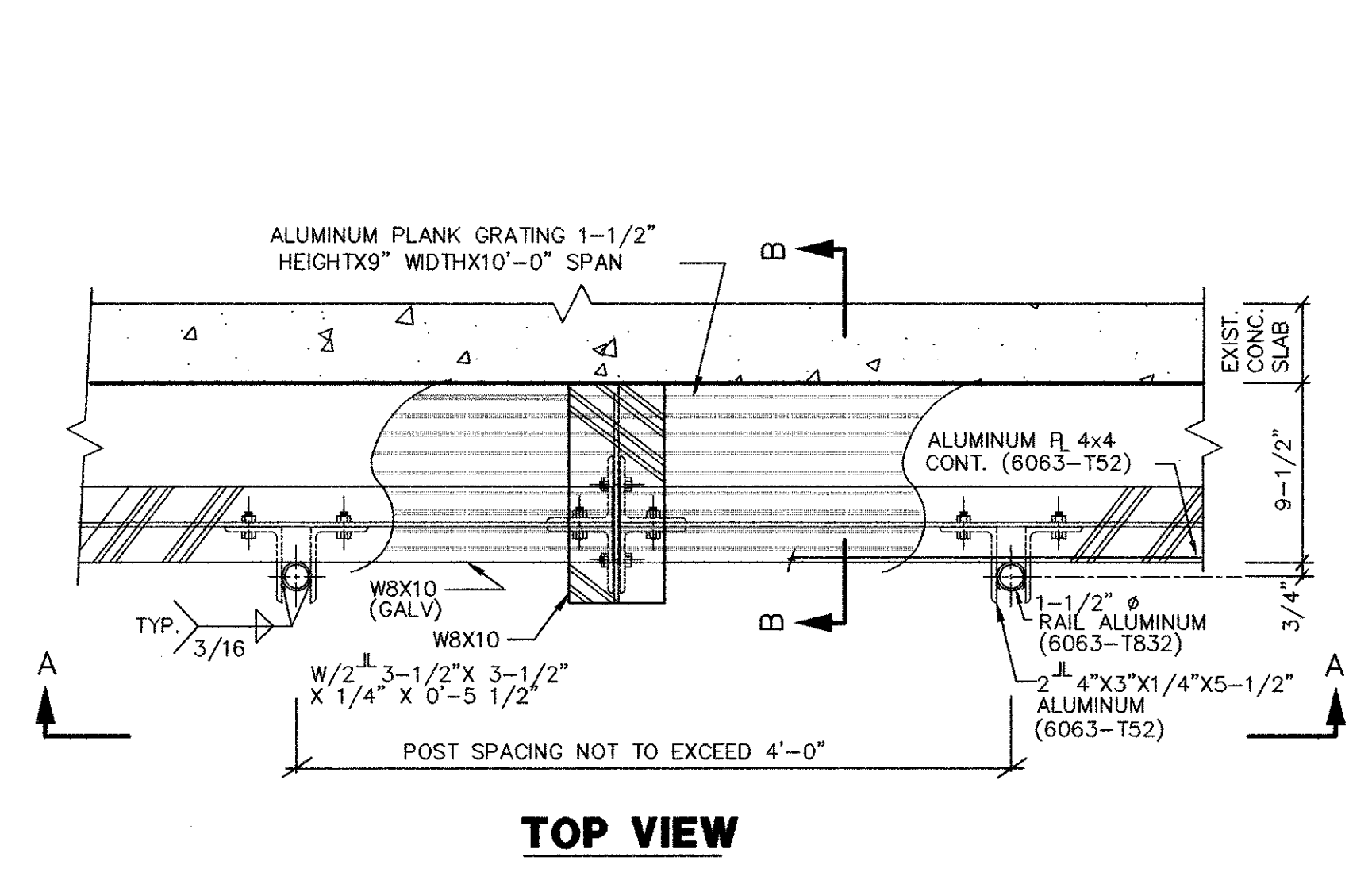
- 1) STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC STEEL CONSTRUCTION MANUAL AND SHALL CONFORM TO LATEST ASTM A36 SPECIFICATIONS. BOLTS TO CONFORM TO ASTM A325. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.

ALUMINUM HANDRAIL NOTES

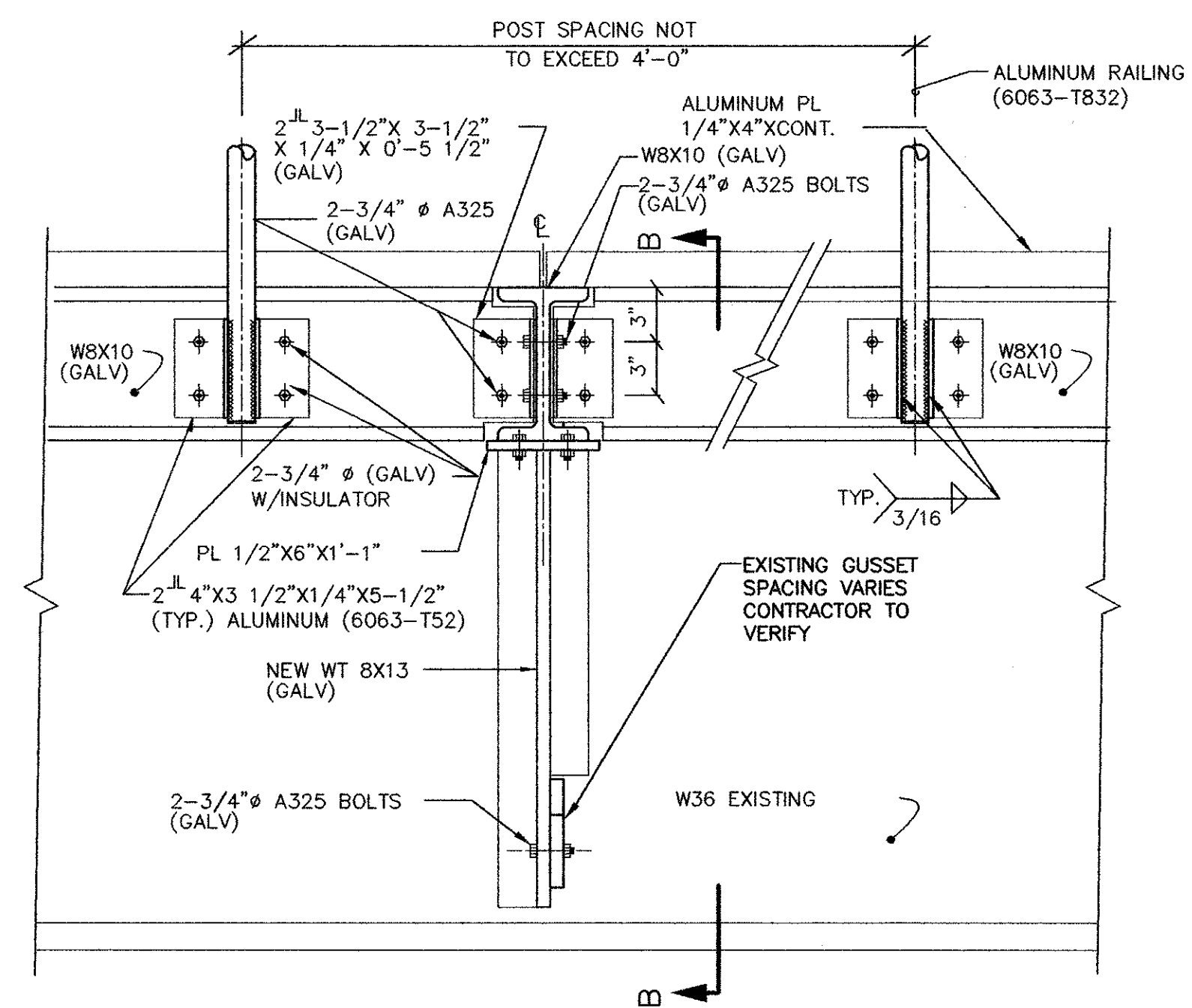
- WORK INCLUDED: FURNISH AND INSTALL ALUMINUM PIPE RAILINGS AND COMPONENTS. FURNISH GALVANIZED STEEL BOLTS FOR CONNECTION W/ BOLT INSULATOR.
- RAILING SYSTEM: RAILING SYSTEM SHALL BE PERMANENTLY ANCHORED.
- RAIL AND POSTS: FABRICATE RAILS AND POSTS FROM ANODIZED ALUMINUM, 6063-832 WITH NOMINAL SIZE OF 1 1/2 INCH OUTSIDE DIAMETER, SCHEDULE 40.



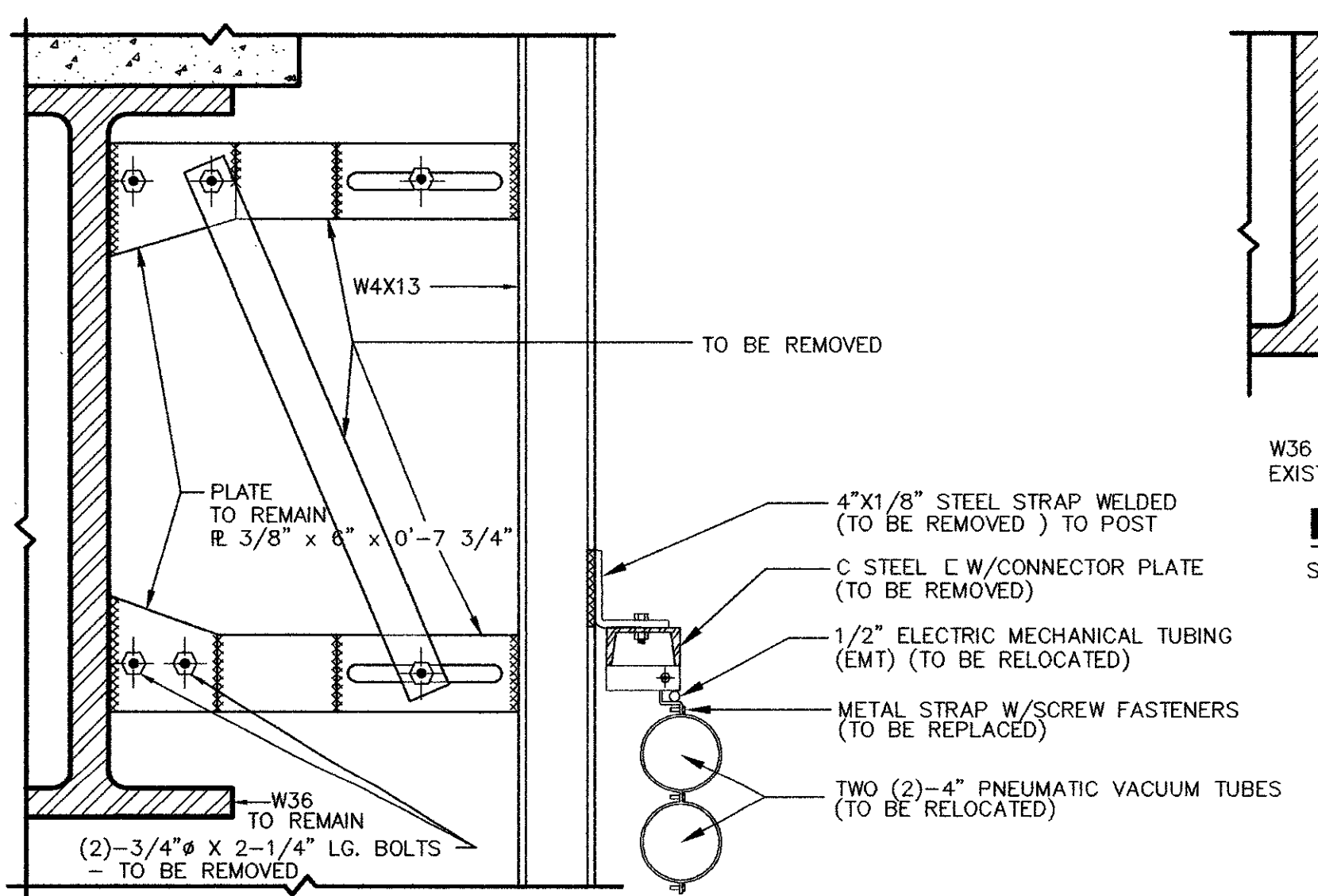
SECTION B-B PROPOSED ALUMINUM OUTER RAILING 1'-1 1/2"



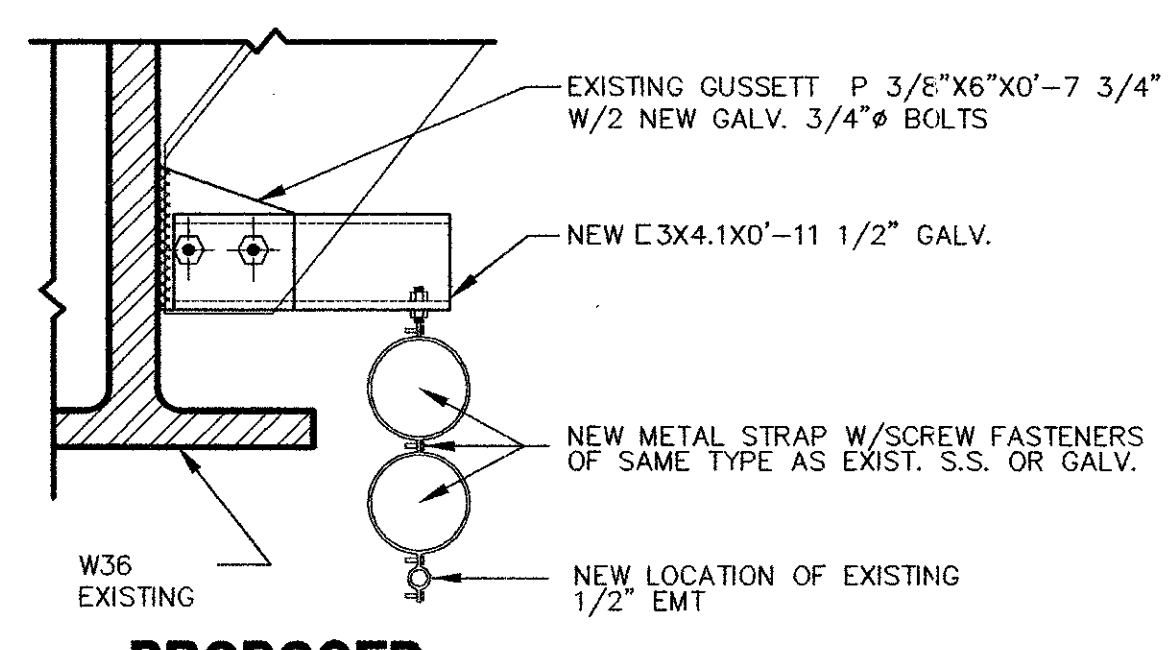
TOP VIEW



ELEVATION A-A

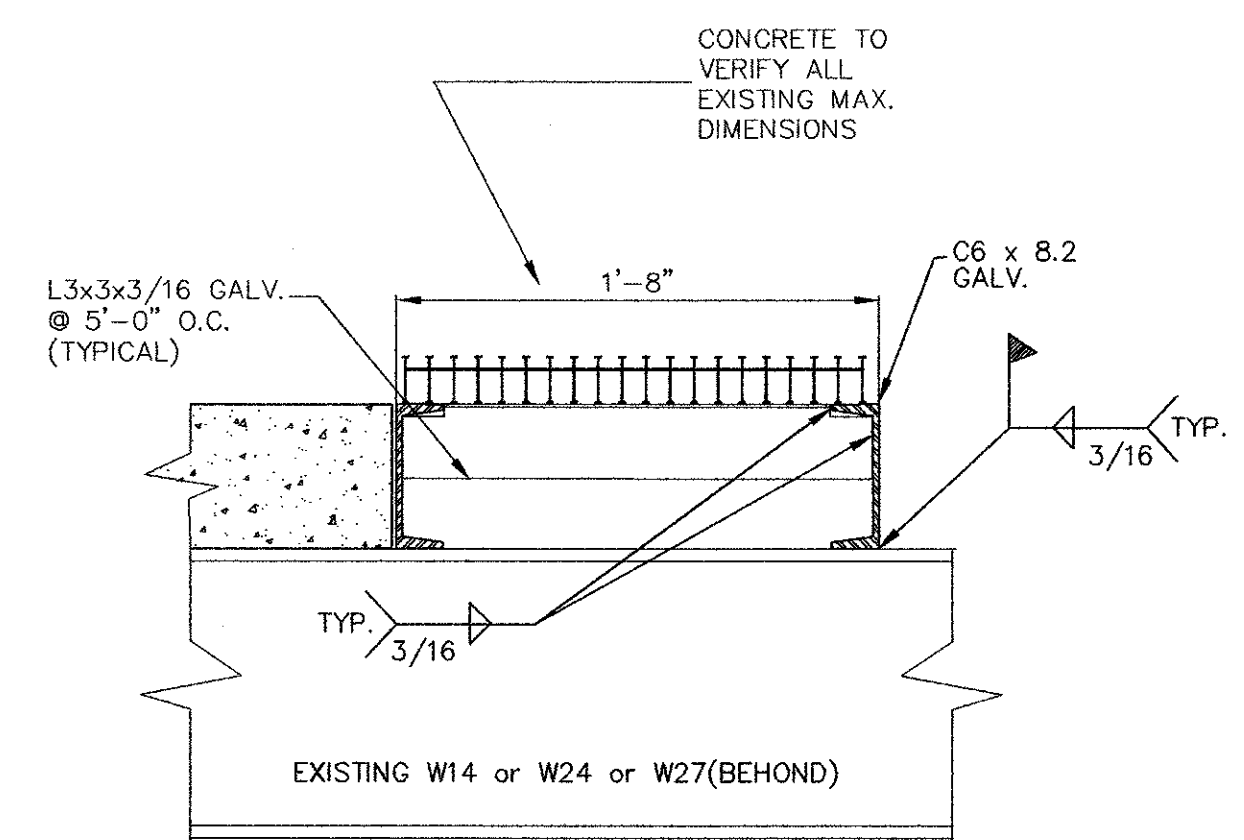


EXISTING SCALE: 1-1/2"=1'-0"



PROPOSED SCALE: 1-1/2"=1'-0"

DUAL VACUUM PIPES ATTACHMENT



DETAIL AT MID-SPAN ALUMINUM PLANK GRATING FRAMING DETAIL SCALE: 1-1/2"=1'-0"

AS BUILT



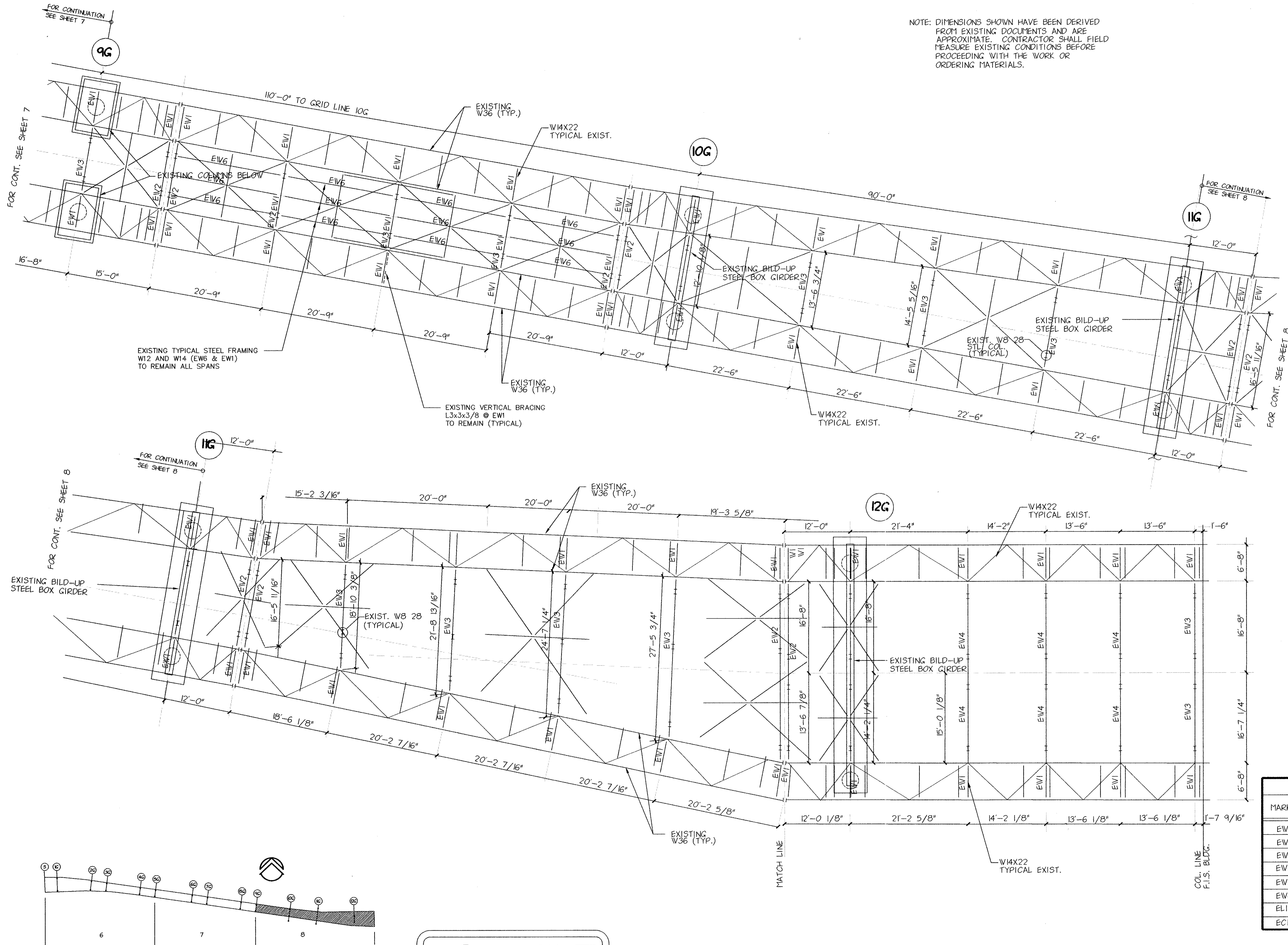
Alberto J. Cozales Civil Engineer No 51895 State of Florida engineer of record for the firm 6-7-00 Date

Table with columns for revision, date, and description.

C.A.P. ENGINEERING CONSULTANTS, INC. 100 WINDY HILL SUITE 300 CORAL GABLES, FLORIDA 33134 (305) 461-5484

CONCOURSE 'E' STS PEOPLE MOVER BRIDGE REPAIRS DCAD PROJECT NUMBER A017B TELEPHONE NUMBER (305) 869 4016 DADE COUNTY, FLORIDA PROJECT MANAGER: BYRON DOWELL MIAMI INTERNATIONAL AIRPORT

Table with columns for date, drawn by, checked by, and drawing number (CR3).



NOTE: DIMENSIONS SHOWN HAVE BEEN DERIVED FROM EXISTING DOCUMENTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK OR ORDERING MATERIALS.

EXISTING TYPICAL STEEL FRAMING W12 AND W14 (EW6 & EW1) TO REMAIN ALL SPANS

EXISTING VERTICAL BRACING L3x3x3/8 @ EW1 TO REMAIN (TYPICAL)

EXISTING BILD-UP STEEL BOX GIRDER

EXIST. W8 28 (TYPICAL)

EXISTING BILD-UP STEEL BOX GIRDER

EXISTING W36 (TYP.)

W14X22 TYPICAL EXIST.

AS BUILT

PLAN VIEW STRUCTURAL STEEL TO REMAIN

1/8" = 1'-0"

SHAPE LEGEND	
MARK	SHAPE
EW1	EXISTING W14 22
EW2	EXISTING W14 78
EW3	EXISTING W24 68
EW4	EXISTING W24
EW5	EXISTING W27 94
EW6	EXISTING W12
EL1	EXISTING L3 3 3/8
ECl	EXISTING W8 28

ALBERTO J. CORRALES
Civil Engineer No 51895
State of Florida
engineer of record
for the firm
6-9-00
Date

002160027

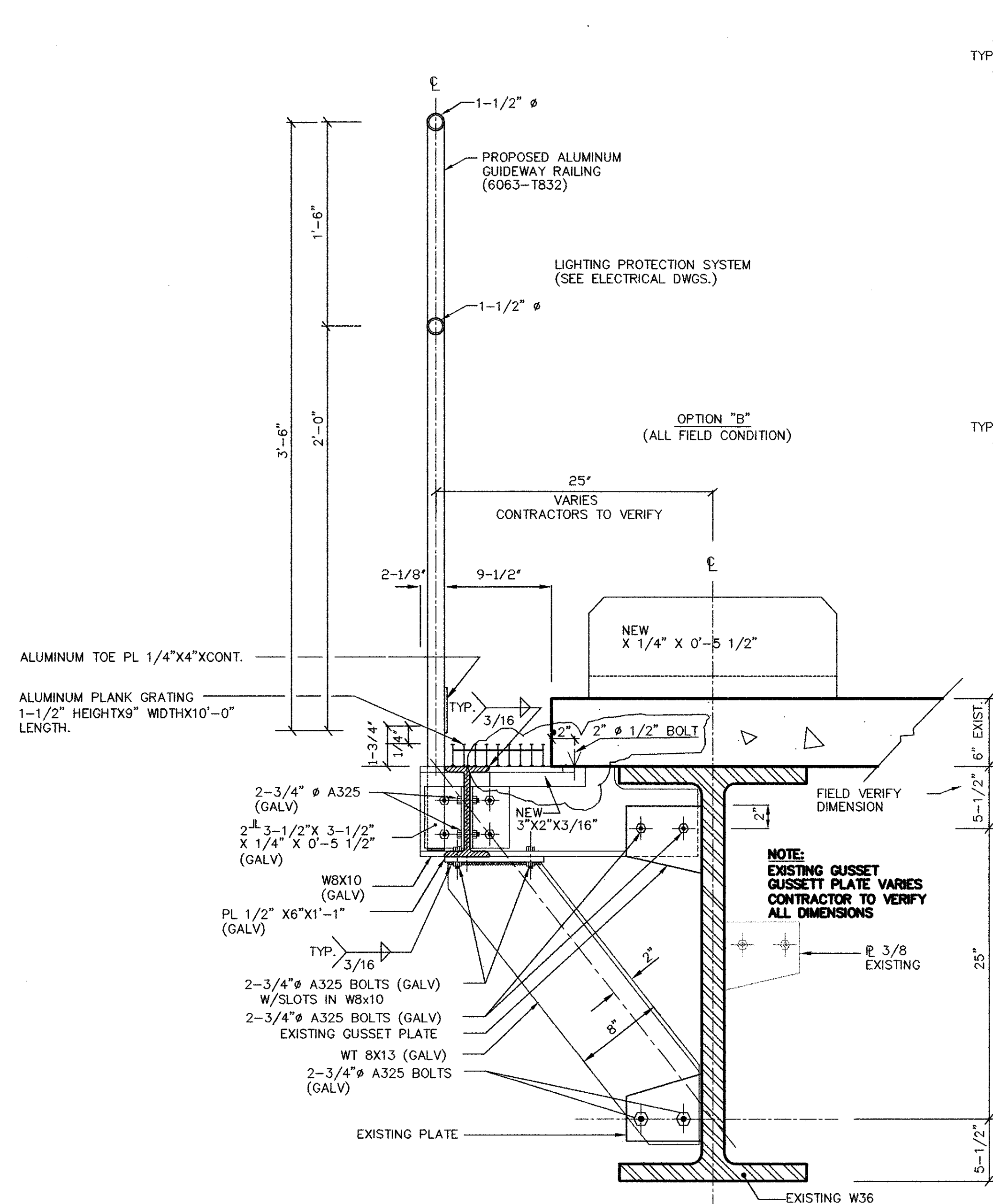
By	
Reviewed	
Checked	
Date	

C.A.P. ENGINEERING CONSULTANTS, INC.
100 W. PALM BEACH BLVD., SUITE 300, COVINGTON, FLORIDA 33424
PROJECT NUMBER: DCAD-00178
DATE: 08-14-00

CONCOURSE 'E' STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER A0178
TELEPHONE NUMBER (305) 869 4016
DADE COUNTY, FLORIDA
PROJECT MANAGER: BYRON DOWELL
MIAMI INTERNATIONAL AIRPORT

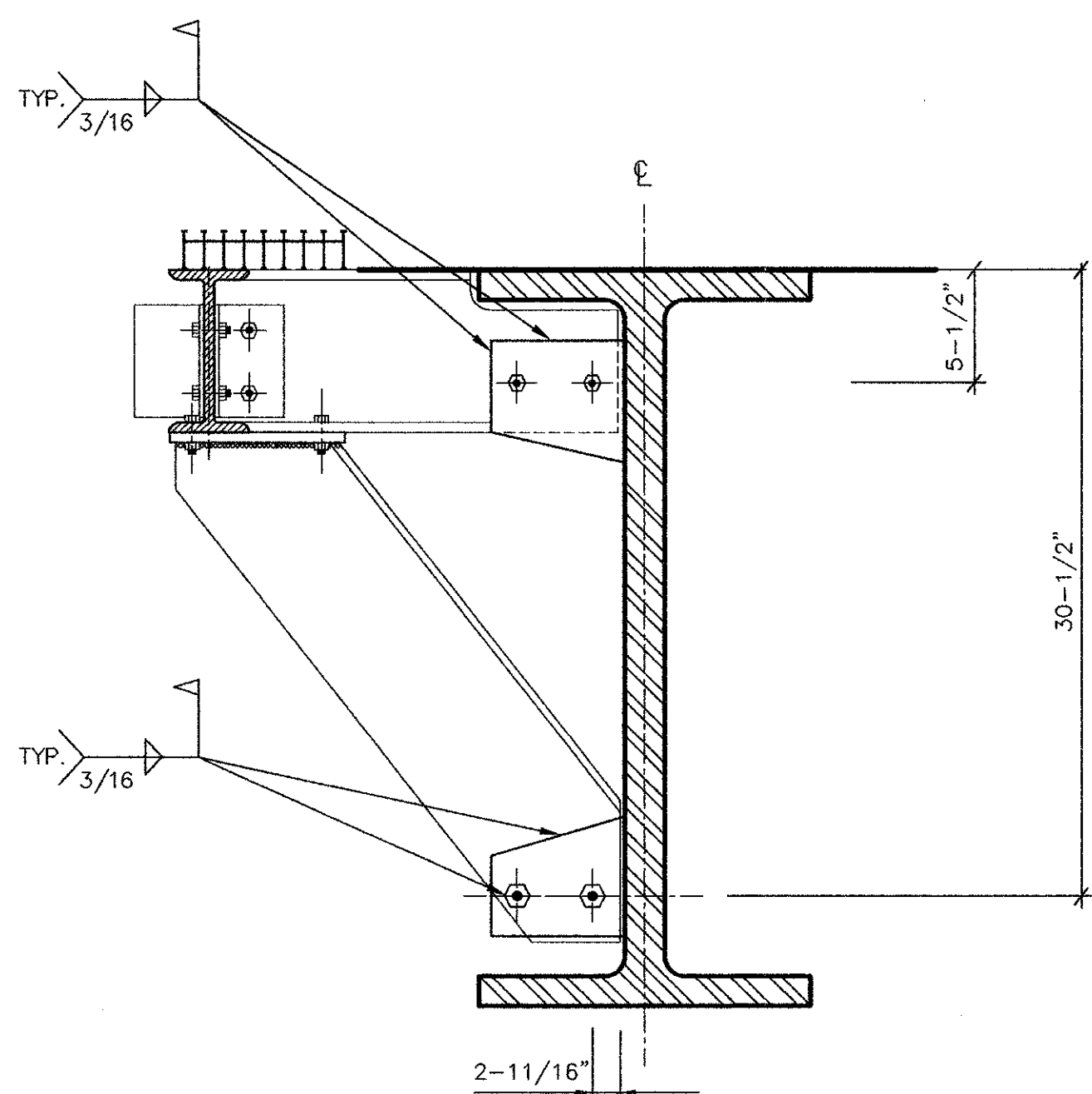
10-01-97	sk	dk
date	drawn by	checked by
20	number	

CR7

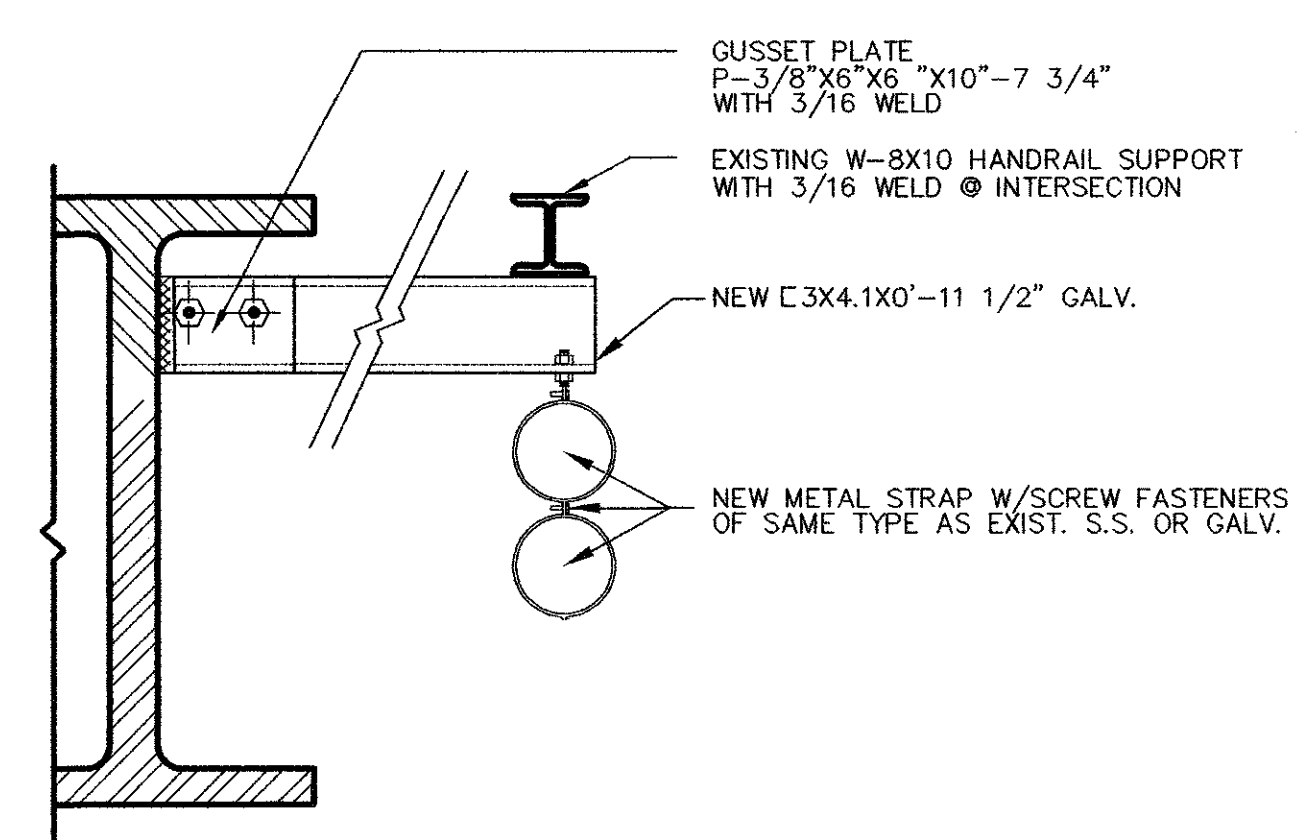


SECTION B-B
RFI #10 N.T.S.

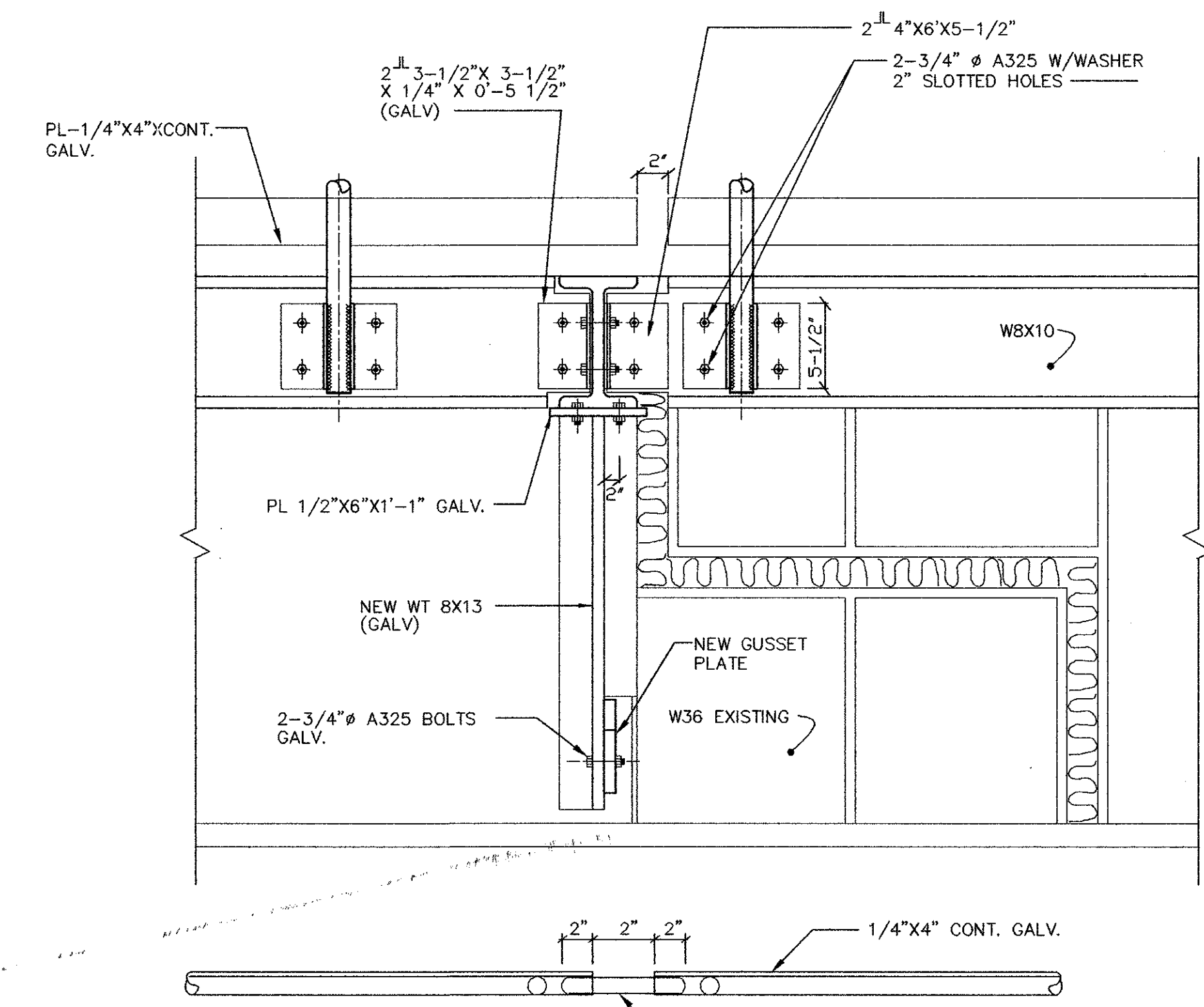
NOTE: ALL STEEL ITEMS TO BE ALUMINIZED, HOT DIP GALVANIZED OR ELECTRO GALVANIZED STEEL



RFI #25
N.T.S.

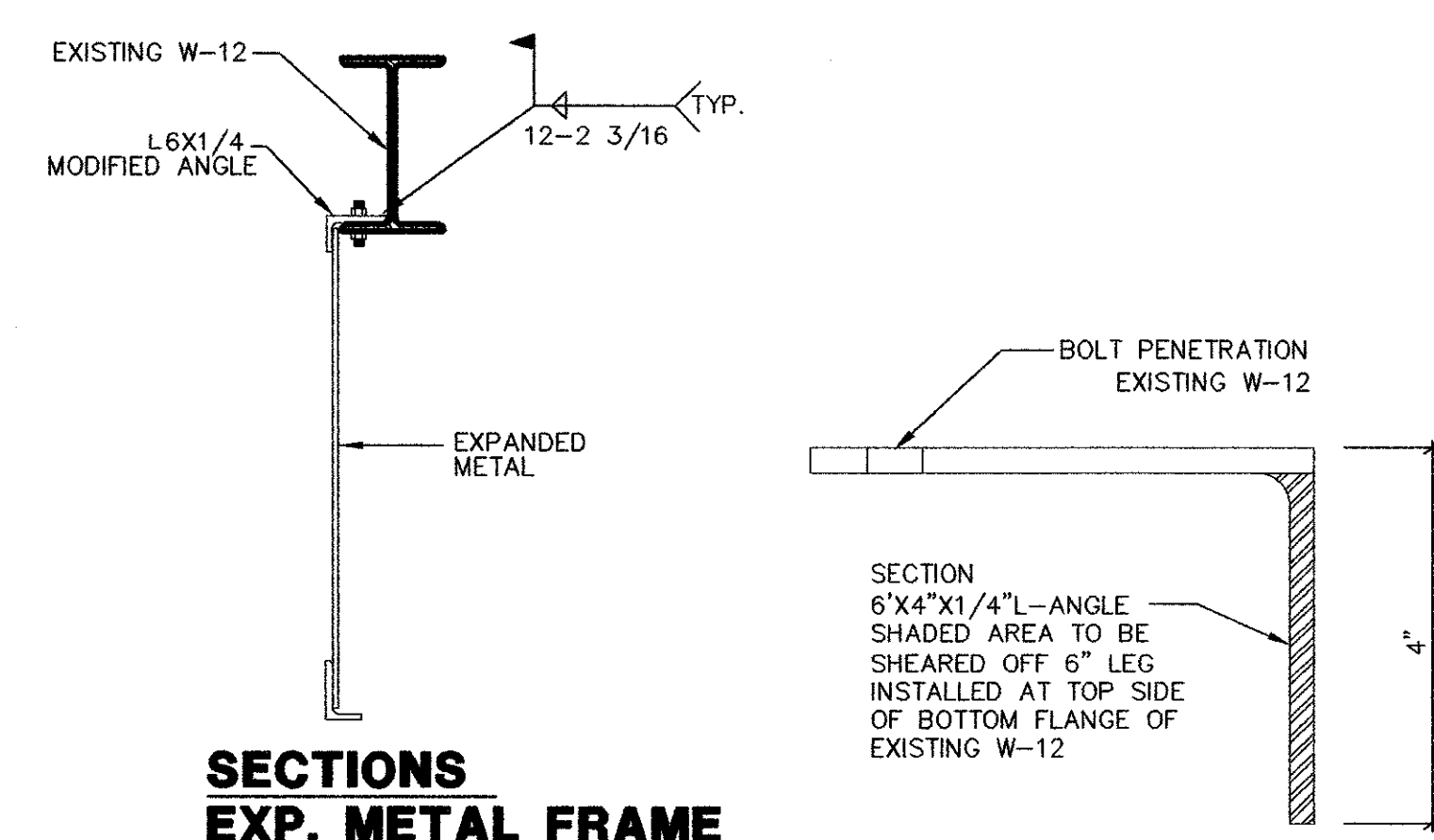


SECT. 13
SCALE: N.T.S.



TYPICAL DETAIL
RFI #20 N.T.S.
6-24-99

INTERNAL CONNECTOR SLEEVE (ALL HORIZONTAL PIPES) (LEFT UNATTACHED AT ONE END) SEE GENERAL NOTES CR-3



SECTIONS
EXP. METAL FRAME
SCALE: N.T.S.

AS BUILT

by	
checked	
date	
no.	

C.A.P. ENGINEERING CONSULTANTS, INC.
100 WINDY HILL, SUITE 300, ORLAND PARK, ILLINOIS 60454
TEL: 815-401-5744 FAX: 815-401-5744

CONCOURSE 'E' STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER A017B
TELEPHONE NUMBER (305) 869 4016
DADE COUNTY, FLORIDA
PROJECT MANAGER: BYRON DOWELL
MIAMI INTERNATIONAL AIRPORT

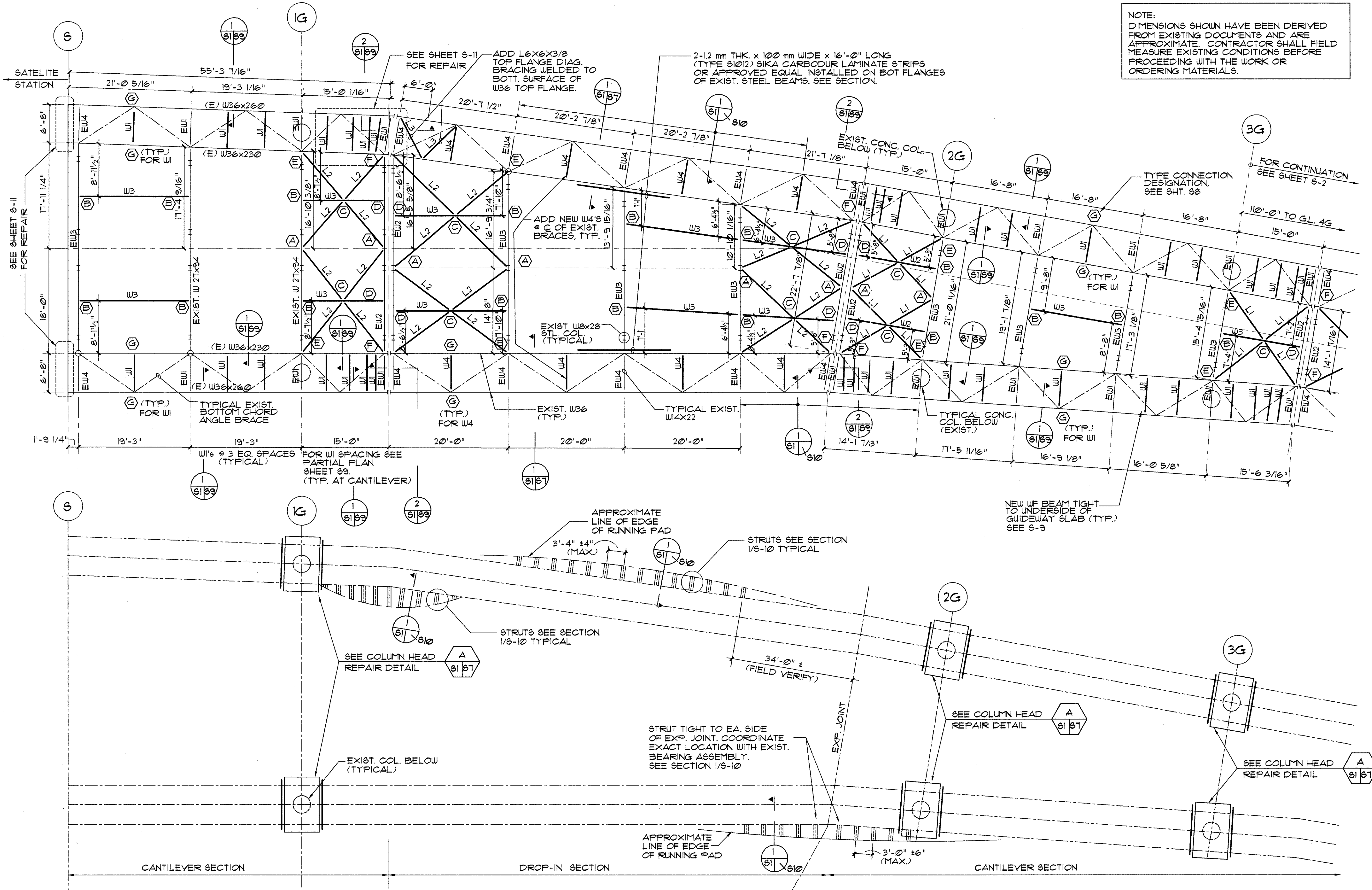
7-08-97	DL	DL
date	drawn by	checked by

drawing
CR3
A
20

Alberto Corrales
ALBERTO CORRALES
Civil Engineer No 51895
State of Florida
engineer of record
for the firm
6-9-00
Date



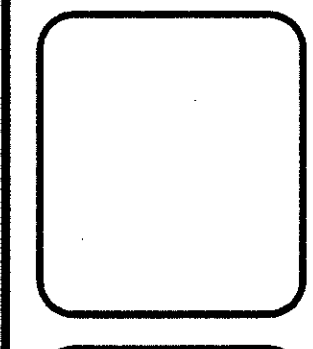
NOTE:
 DIMENSIONS SHOWN HAVE BEEN DERIVED FROM EXISTING DOCUMENTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK OR ORDERING MATERIALS.



no.	date	revisions

BRILL
 CONSULTING ENGINEERS
 2801 Ponce de Leon Boulevard
 Suite 1000
 Miami, Florida 33134
 Phone 305-446-2391
 Fax 305-446-2392
 Luis N. Rodriguez, P.E., REG. ENR

CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
 DCAD PROJECT NUMBER AO17B
 TELEPHONE NUMBER (305) 869 4016
 MIAMI INTERNATIONAL AIRPORT
 DADE COUNTY, FLORIDA
 PROJECT MANAGER: BYRON DOWELL



3-5-98	A.J.	AS. / L.R.
date	drawn by	checked by

file number
9538
 drawing
S1

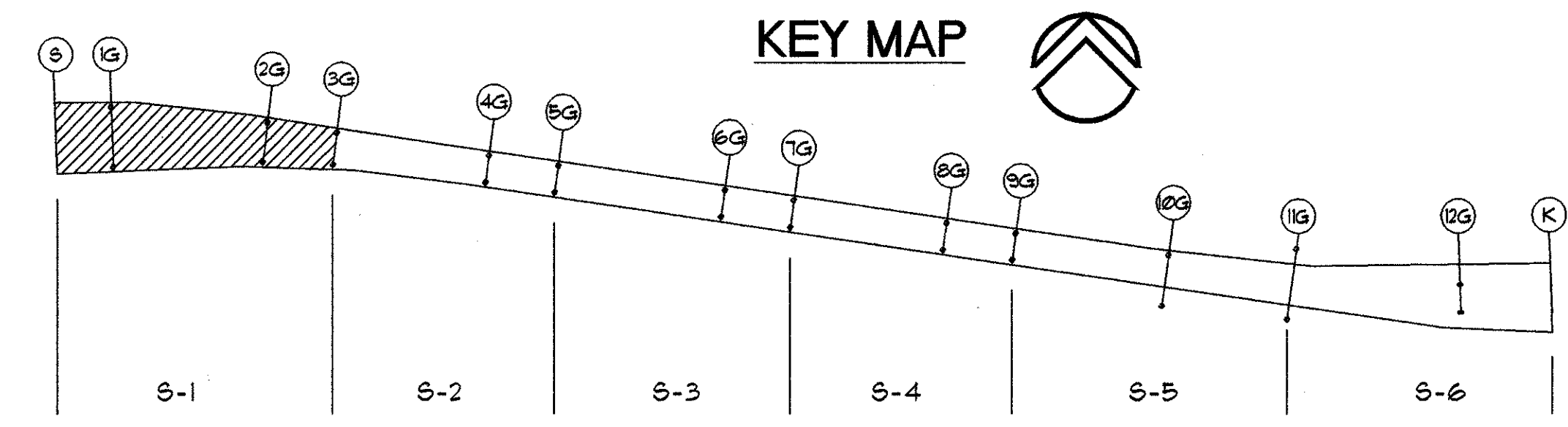
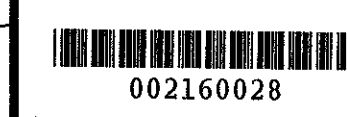
AS BUILT
 THESE AS-BUILT DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION PROVIDED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT THEREOF.

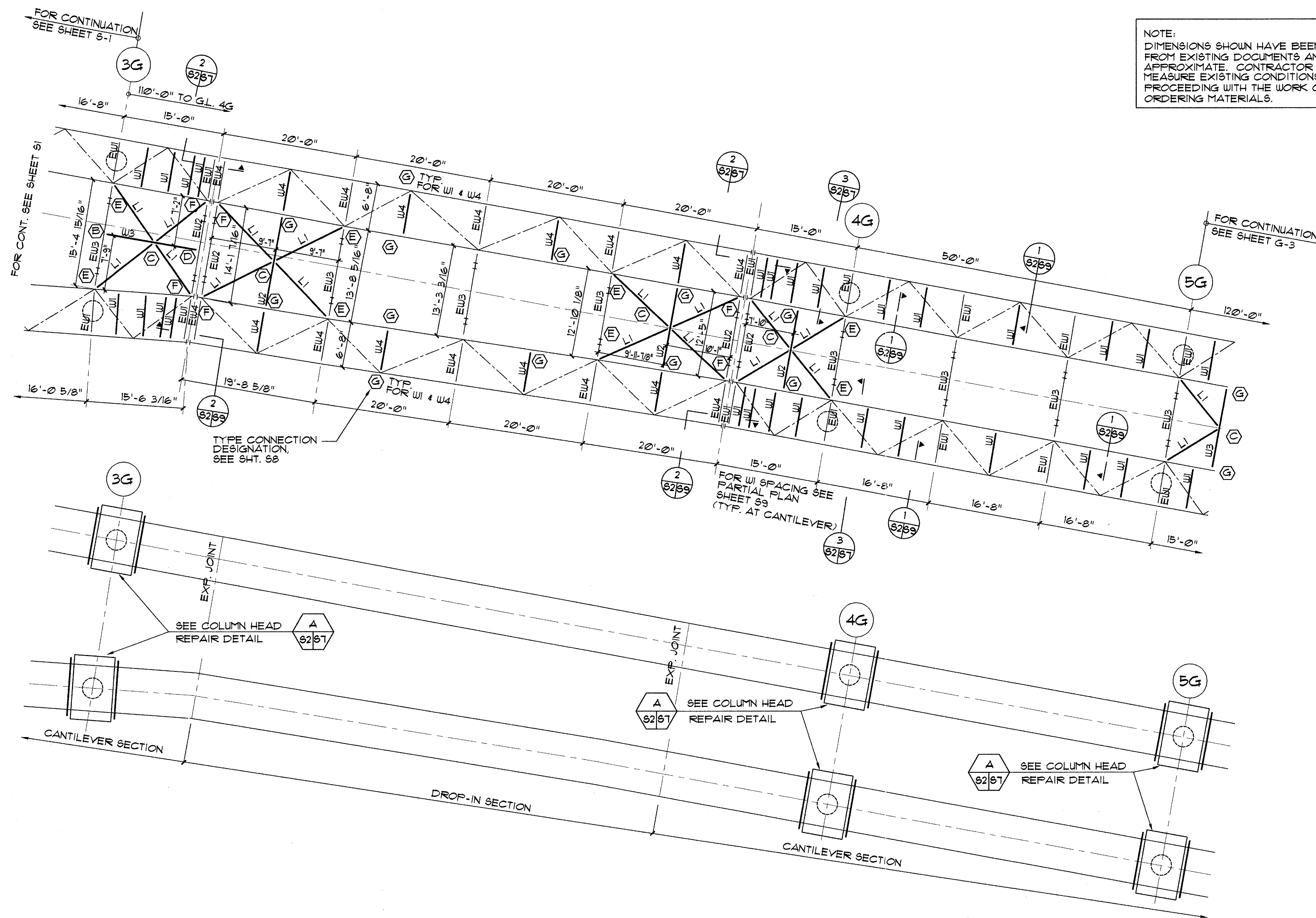
**PLAN VIEW
 STRUCTURAL BRACING / COLUMN CAP
 REPAIRS GUIDEWAY LEVEL (S-3G)**



1/8" = 1'-0"

CONNECTION LEGEND		SHAPE LEGEND	
MARK	CONNECTION DETAIL	MARK	SHAPE (NEW BMS.)
(A)	MARK A THIRD 	W1	W14x22 (*) (SEE SECT. 1/59 & 2/59)
(B)		W2	W12x16
(C)		W3	W12x22
(D)		W4	W14x22
(E)		EW1	EXISTING W14x22 (*) (SEE SECT. 1/59 & 2/59)
(F)		EW2	EXISTING W14x18
(G)		EW3	EXISTING W24x68
(H)		EW4	EXISTING W14x22
(I)		L1	L4x4x5/16
(J)		L2	L5x5x5/16
(K)		L3	L6x6x3/8



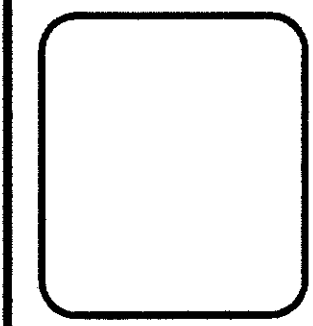


NOTE:
DIMENSIONS SHOWN HAVE BEEN DERIVED FROM EXISTING DOCUMENTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK OR ORDERING MATERIALS.

no.	date	revisions	by

BRILL
INC.
CONSULTING ENGINEERS
2801蓬池 de Leon Boulevard
Miami, Florida 33133
Phone: (305) 446-3391
Fax: (305) 446-3392
Luis N. Rodriguez, P.E. 162128

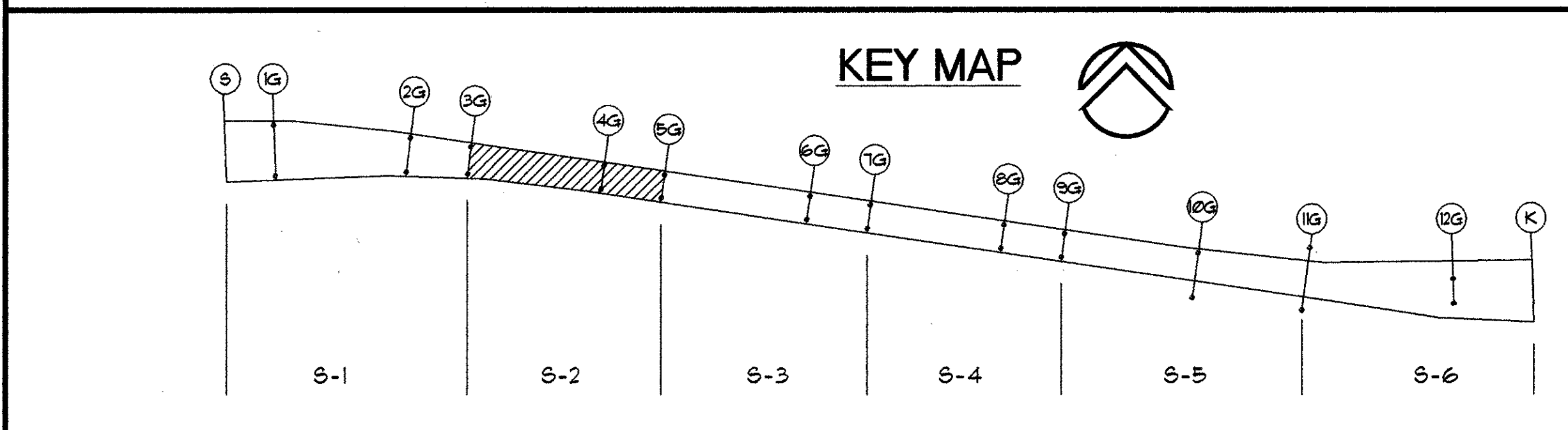
CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER A017B
TELEPHONE NUMBER (305) 869 4016
DADE COUNTY, FLORIDA
PROJECT MANAGER: BYRON DOWELL
MIAMI INTERNATIONAL AIRPORT



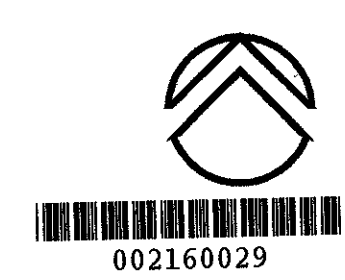
date	3-5-98
drawn by	A.J.
checked by	AS./LR.

File number
9538
drawing
S2

AS BUILT
THESE AS-BUILT DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION PROVIDED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT THEREOF.



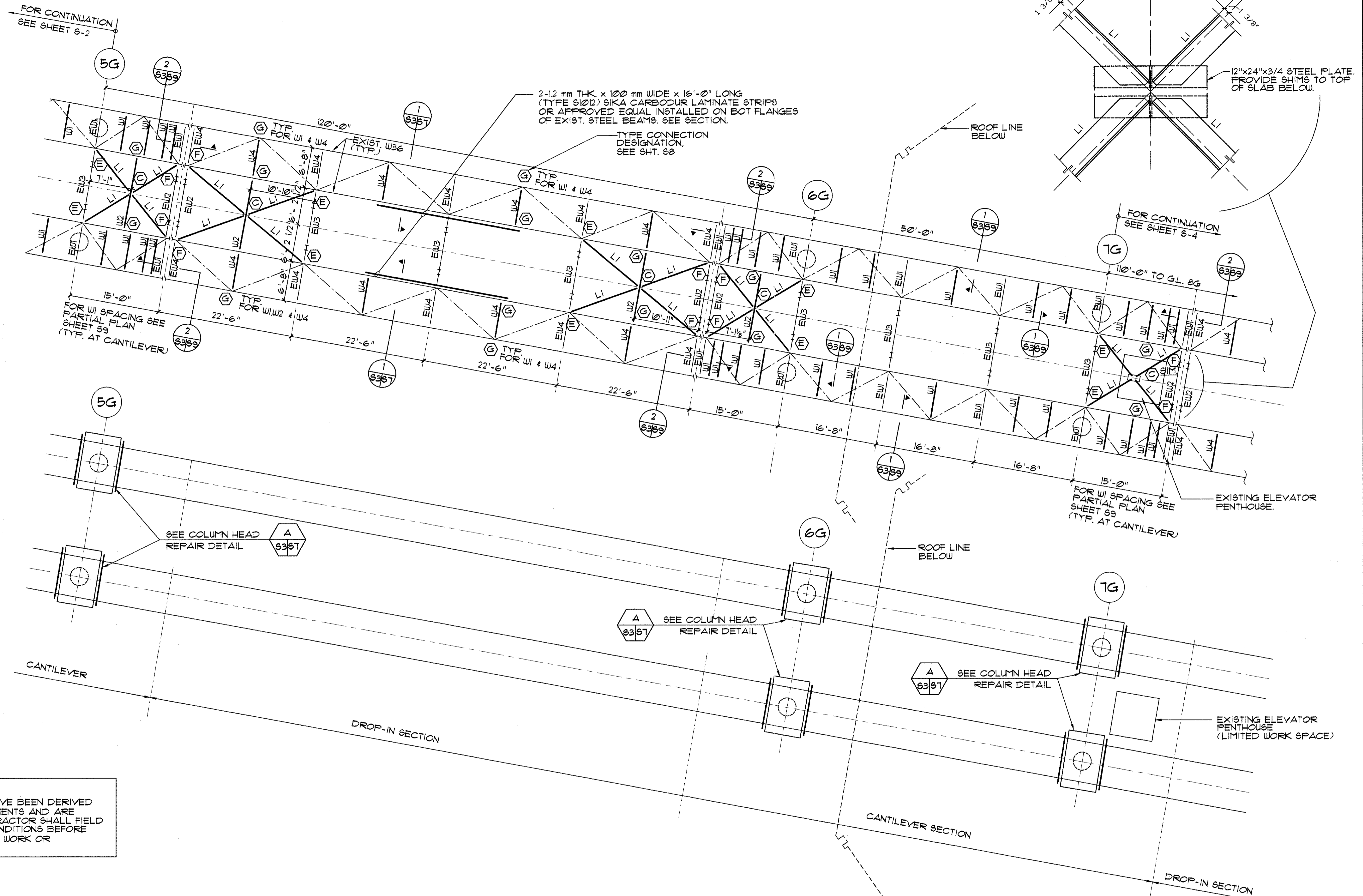
CONNECTION LEGEND		SHAPE LEGEND	
MARK	CONNECTION DETAIL	MARK	SHAPE (NEW BMS.)
(E)	MARK 32/58	W1	W14x22 (*) (SEE SECT. 1/59 & 2/59)
(W)		W2	W12x16
(U)		W3	W12x22
(G)		W4	W14x22
(L)		LI	L4x4x5/16
			(*) SEE ANCHOR PLATE DETAIL, SHEET. 59



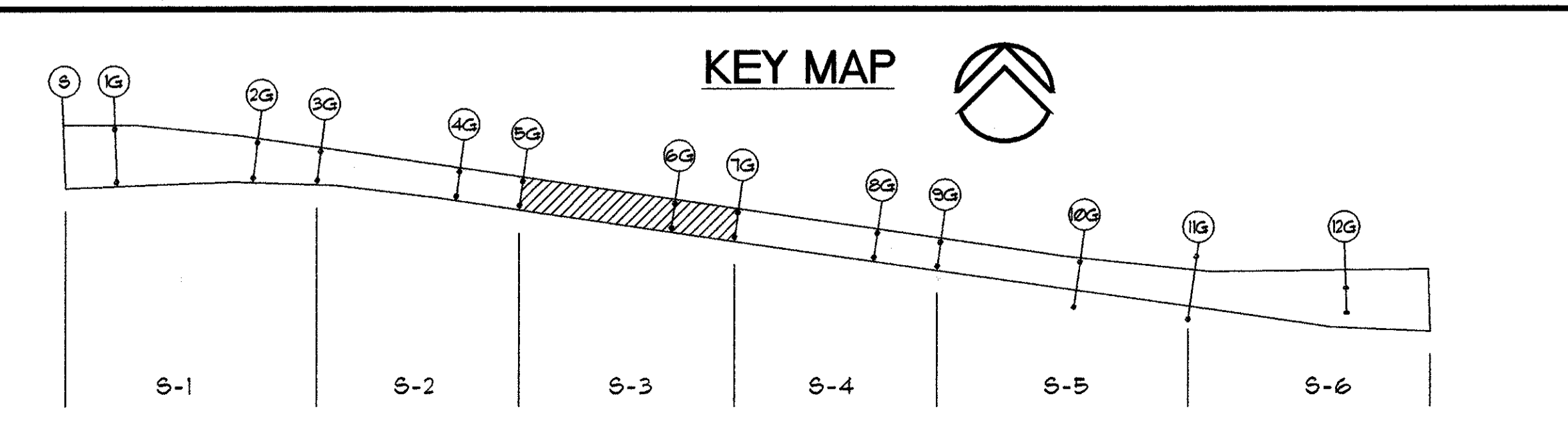
STRUCTURAL BRACING / COLUMN CAP REPAIRS GUIDEWAY LEVEL (3G-5G)

002160029

1/8" = 1'-0"



NOTE:
DIMENSIONS SHOWN HAVE BEEN DERIVED FROM EXISTING DOCUMENTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK OR ORDERING MATERIALS.



CONNECTION LEGEND		SHAPE LEGEND	
MARK	CONNECTION DETAIL	MARK	SHAPE (NEW BMS.)
(Symbol)	MARK	W1	W14x22 (*) (SEE SECT. 1/99 & 2/99)
(Symbol)	(Symbol)	W2	W12x16
(Symbol)	(Symbol)	W3	W12x22
(Symbol)	(Symbol)	W4	W14x22
(Symbol)	(Symbol)	LI	L4x4x5/16
(Symbol)	(Symbol)	E1	EXISTING W14x22 (*) (SEE SECT. 1/99 & 2/99)
(Symbol)	(Symbol)	E2	EXISTING W14x18
(Symbol)	(Symbol)	E3	EXISTING W24x68
(Symbol)	(Symbol)	E4	EXISTING W14x22

(*) SEE ANCHOR PLATE DETAIL, SHEET 99

AS BUILT
THESE AS-BUILT DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION PROVIDED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT THEREOF.

STRUCTURAL BRACING / COLUMN CAP REPAIRS GUIDEWAY LEVEL (5G-7G)

1/8" = 1'-0"

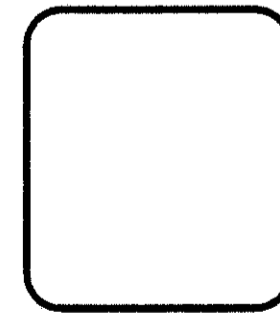
002160030

no.	date	revisions	by

BRILL Inc.
consulting engineers
2901 Ponce de Leon Boulevard
Gainesville, FL 32609
phone (352) 346-3391
fax (352) 346-3392
Luis H. Rodriguez, P.E. #2252

CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER AO17B
TELEPHONE NUMBER (305) 869 4016
DADE COUNTY, FLORIDA

PROJECT MANAGER: BYRON DOWELL
MIAMI INTERNATIONAL AIRPORT

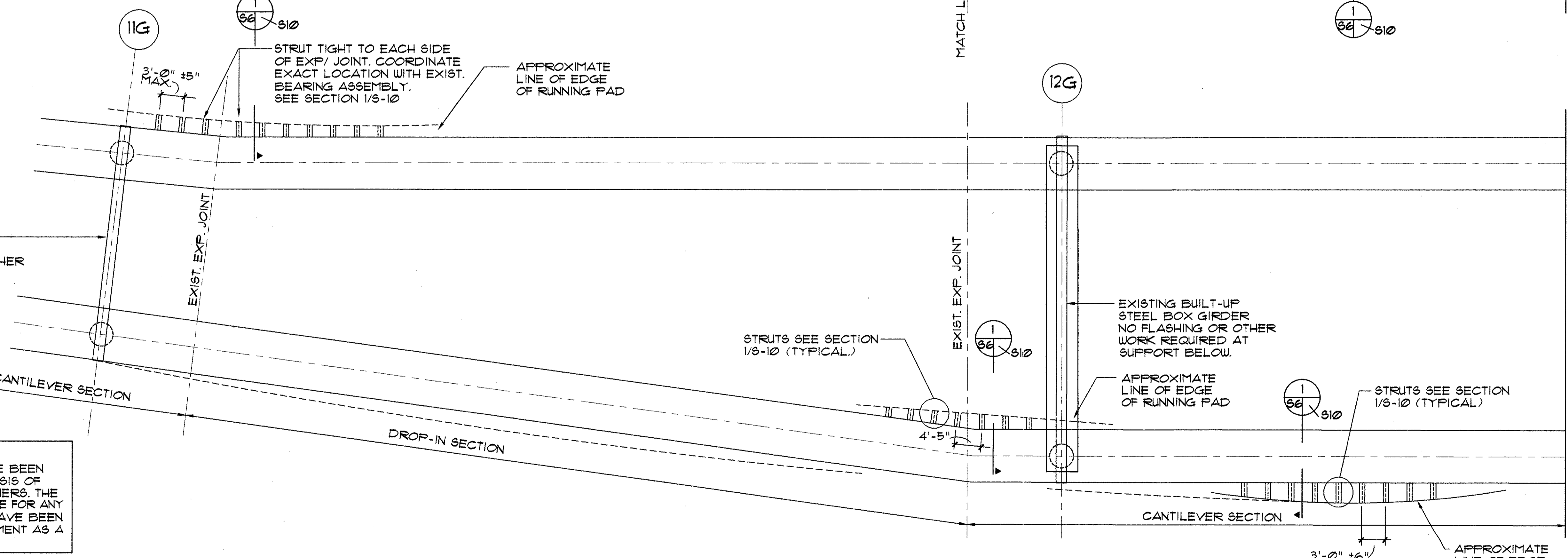
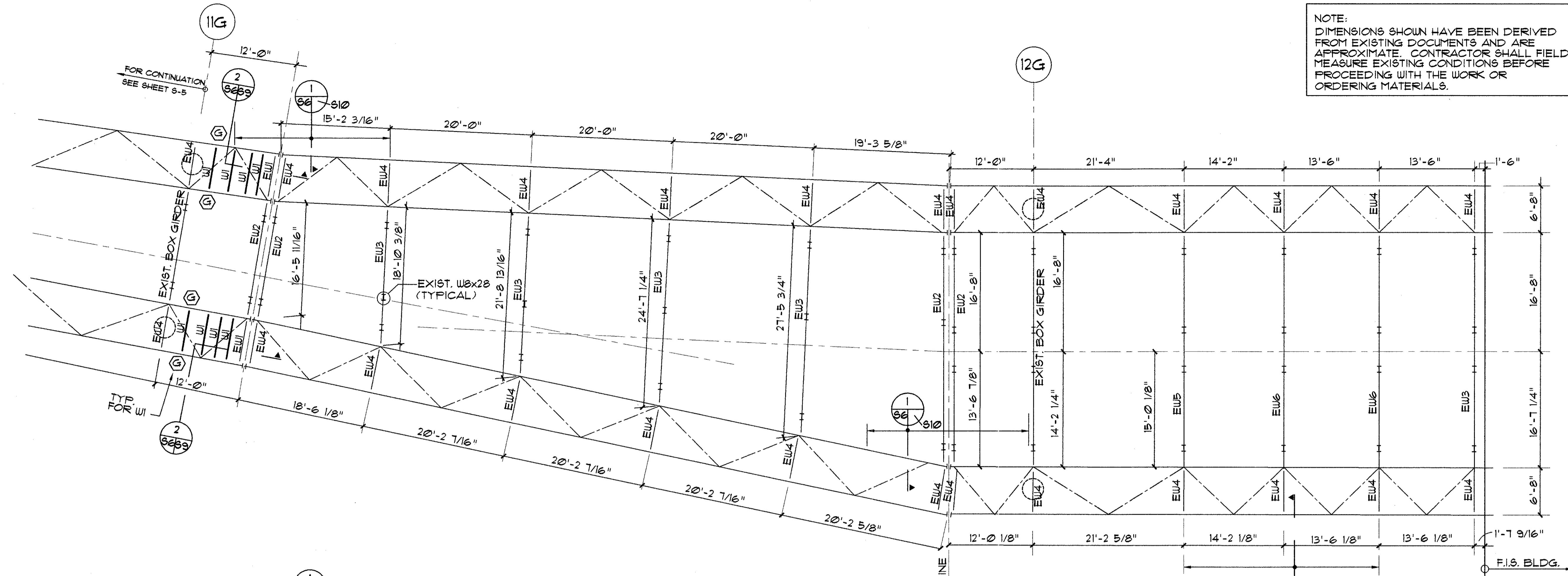


date	drawn by	checked by	AS / LR
3-5-98	A.J.		

File number
9538

drawing
S3

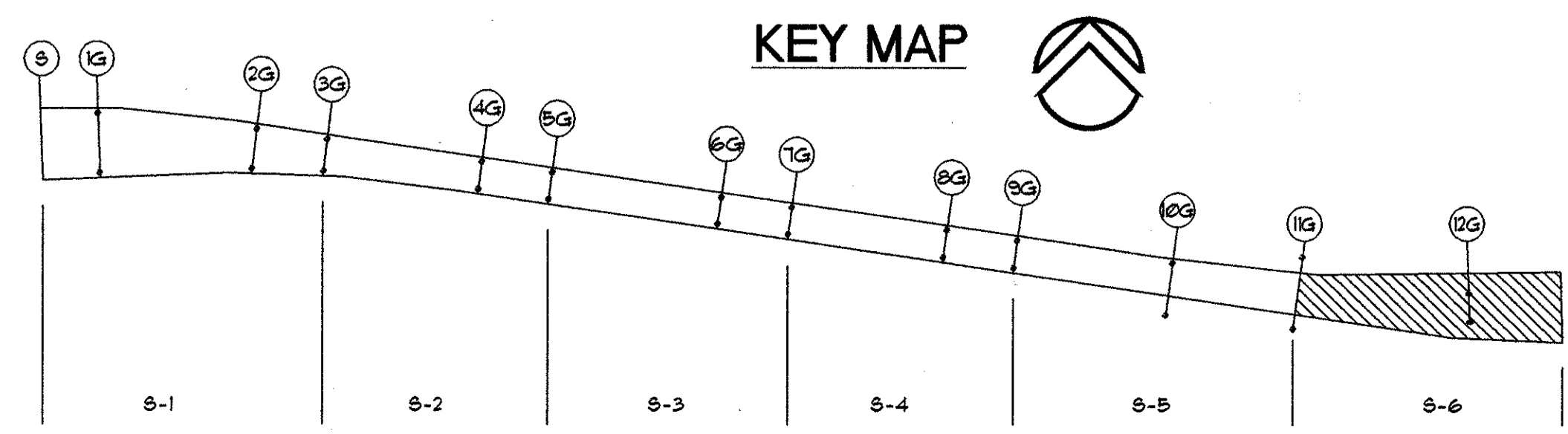
NOTE:
 DIMENSIONS SHOWN HAVE BEEN DERIVED FROM EXISTING DOCUMENTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK OR ORDERING MATERIALS.



EXISTING BUILT-UP STEEL BOX GIRDER NO FLASHING OR OTHER WORK REQUIRED AT SUPPORT BELOW.

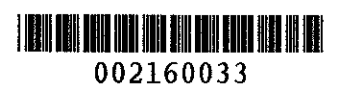
EXISTING BUILT-UP STEEL BOX GIRDER NO FLASHING OR OTHER WORK REQUIRED AT SUPPORT BELOW.

AS BUILT
 THESE AS-BUILT DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION PROVIDED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT THEREOF.

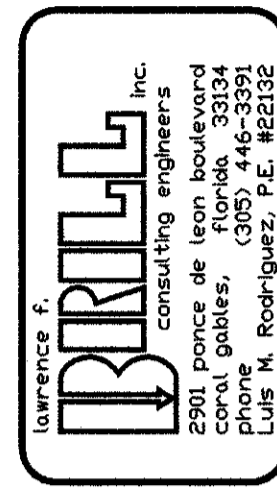


CONNECTION LEGEND		SHAPE LEGEND	
MARK	CONNECTION DETAIL	MARK	SHAPE (NEW BMS.)
EW1	MARK	W1	W14x22 (*) (SEE SECT. 1/59 & 2/59)
EW2		W2	W12x16
EW3		W3	W12x22
EW4		W4	W14x22
EW5		L1	L4x4x5/16
EW6		L2	L5x5x5/16
		EW1	EXISTING W14x22 (*) (SEE SECT. 1/59 & 2/59)
		EW2	EXISTING W14x18
		EW3	EXISTING W24x68
		EW4	EXISTING W14x22
		EW5	EXISTING W21x94
		EW6	EXISTING W24x94
			(*) SEE ANCHOR PLATE DETAIL, SHEET. 59

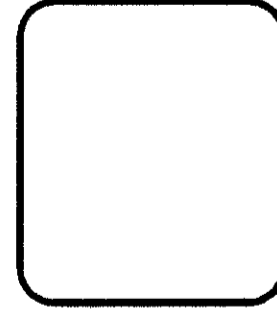
STRUCTURAL BRACING / COLUMN CAP REPAIRS GUIDEWAY LEVEL (11G-K)
 1/8" = 1'-0"



no.	date	revisions	by

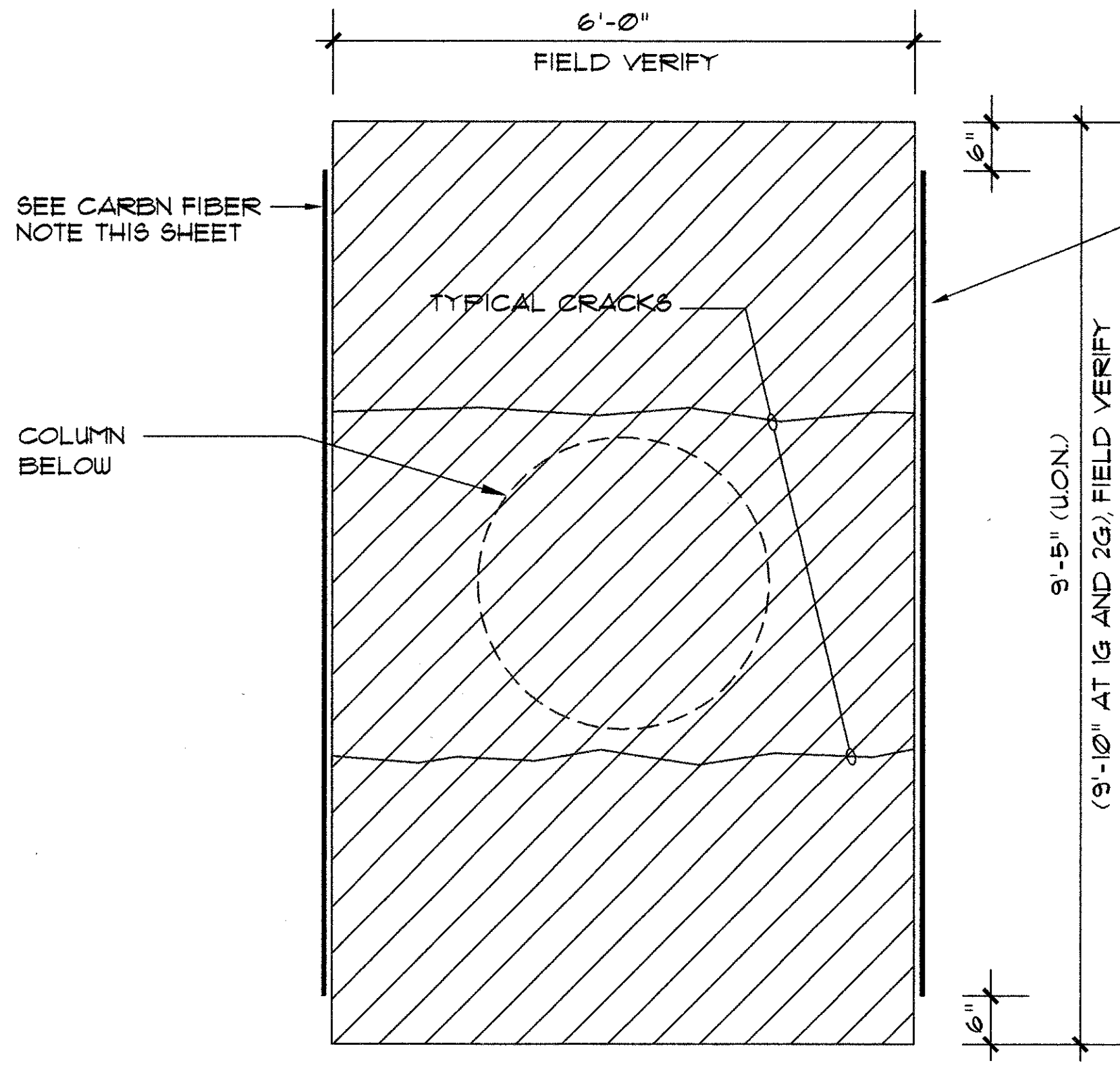


CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER A017B
 PROJECT MANAGER: BYRON DOWELL
 MIAMI INTERNATIONAL AIRPORT
 TELEPHONE NUMBER (305) 869 4016
 DADE COUNTY, FLORIDA

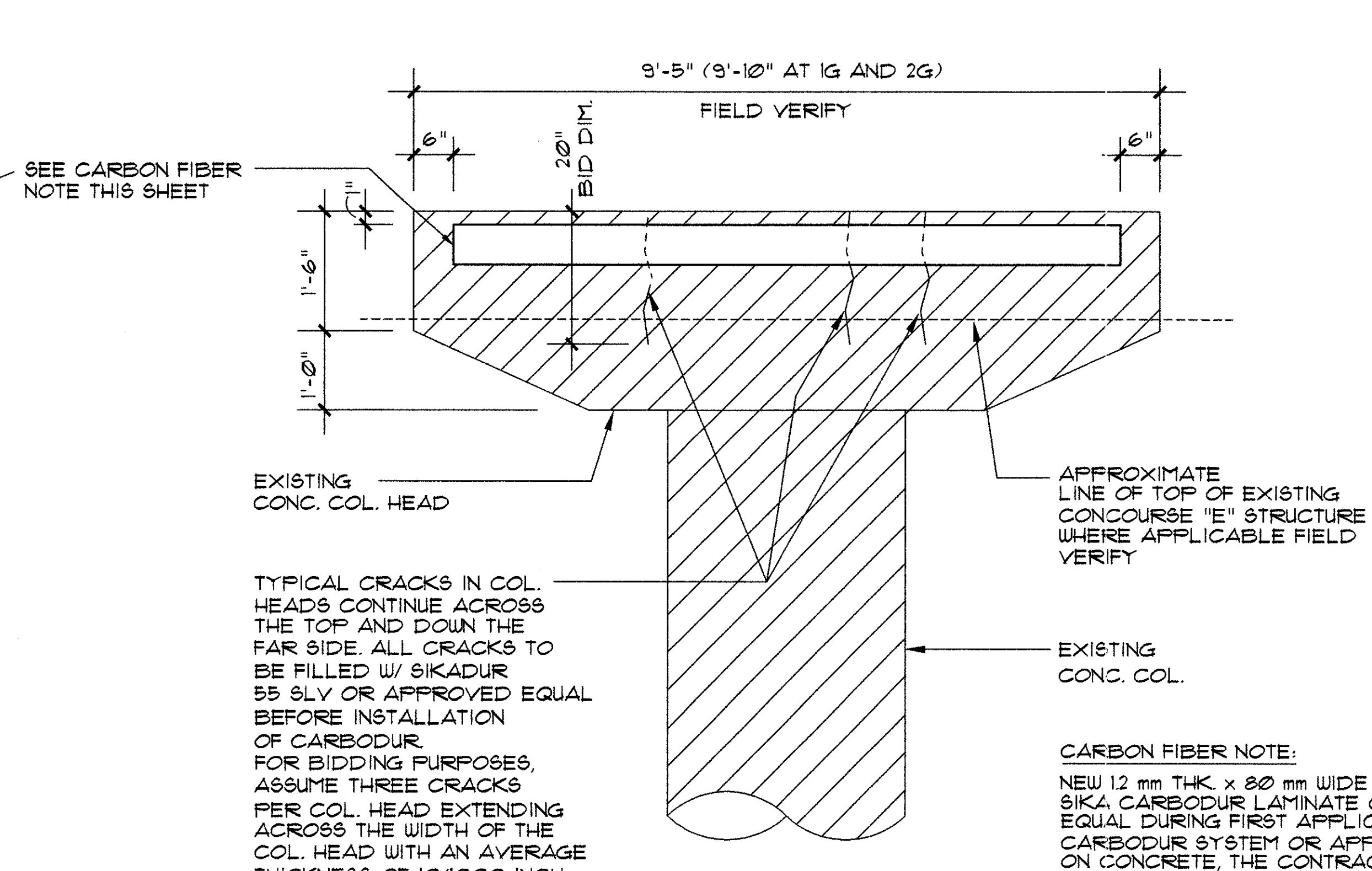


3-5-98	A.J.	AS/LR
date	drawn by	checked by
File number	9538	
drawing	S6	

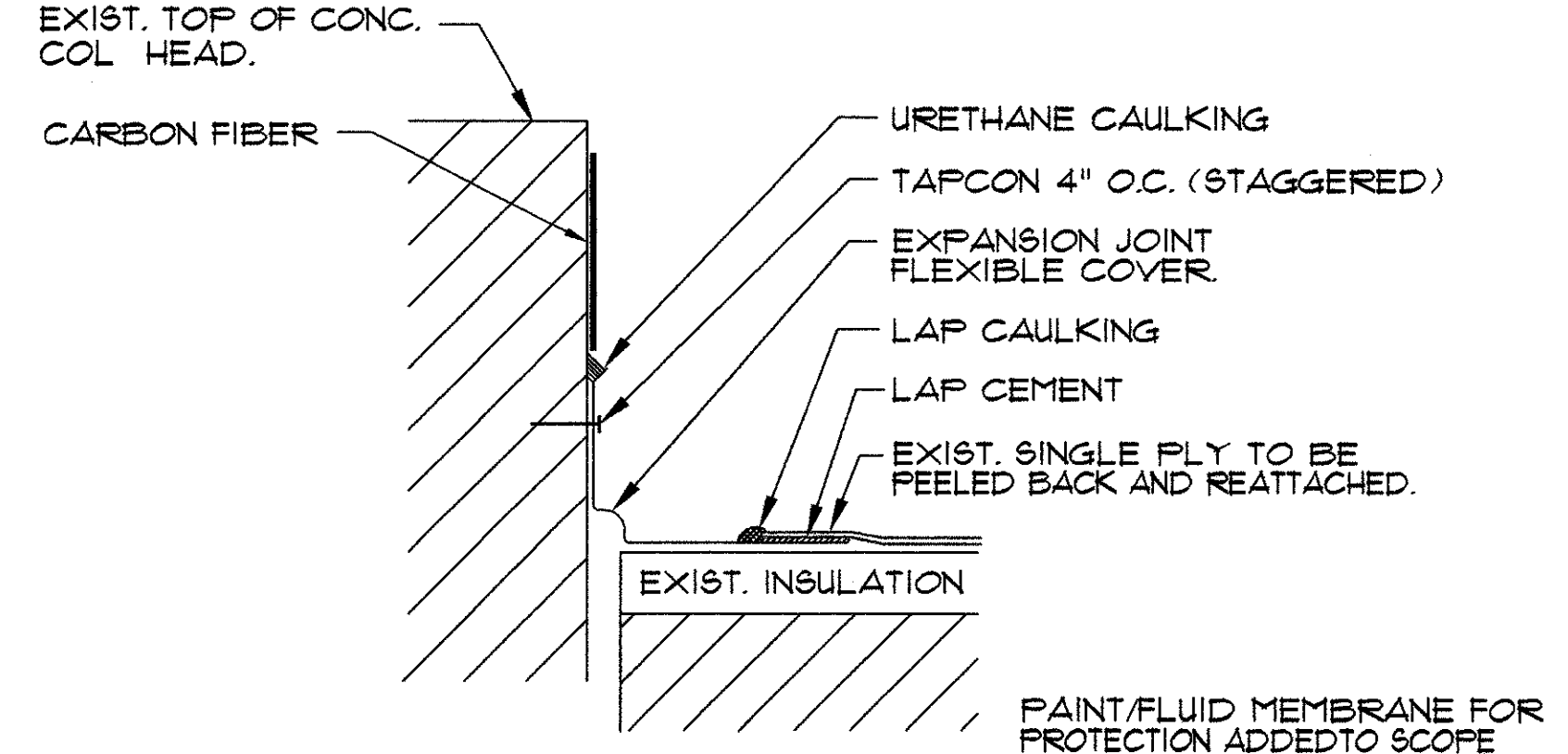
S6



PLAN



ELEVATION

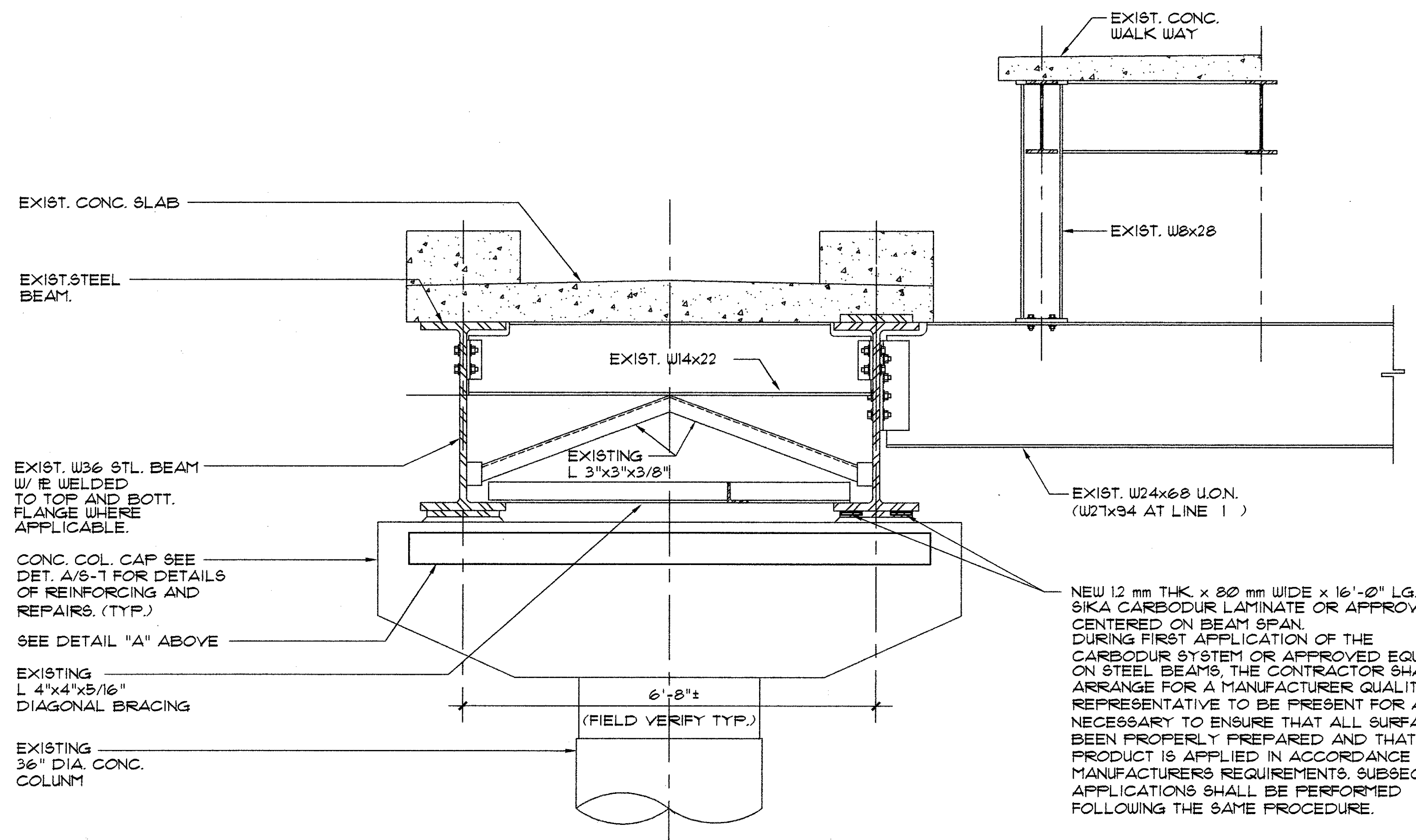
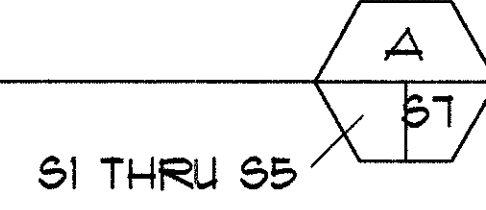


APPROVED ROOFING DETAIL
N.T.S.

COLUMN HEAD REPAIR DETAIL (TYPICAL OF 26)

3/4" = 1'-0"

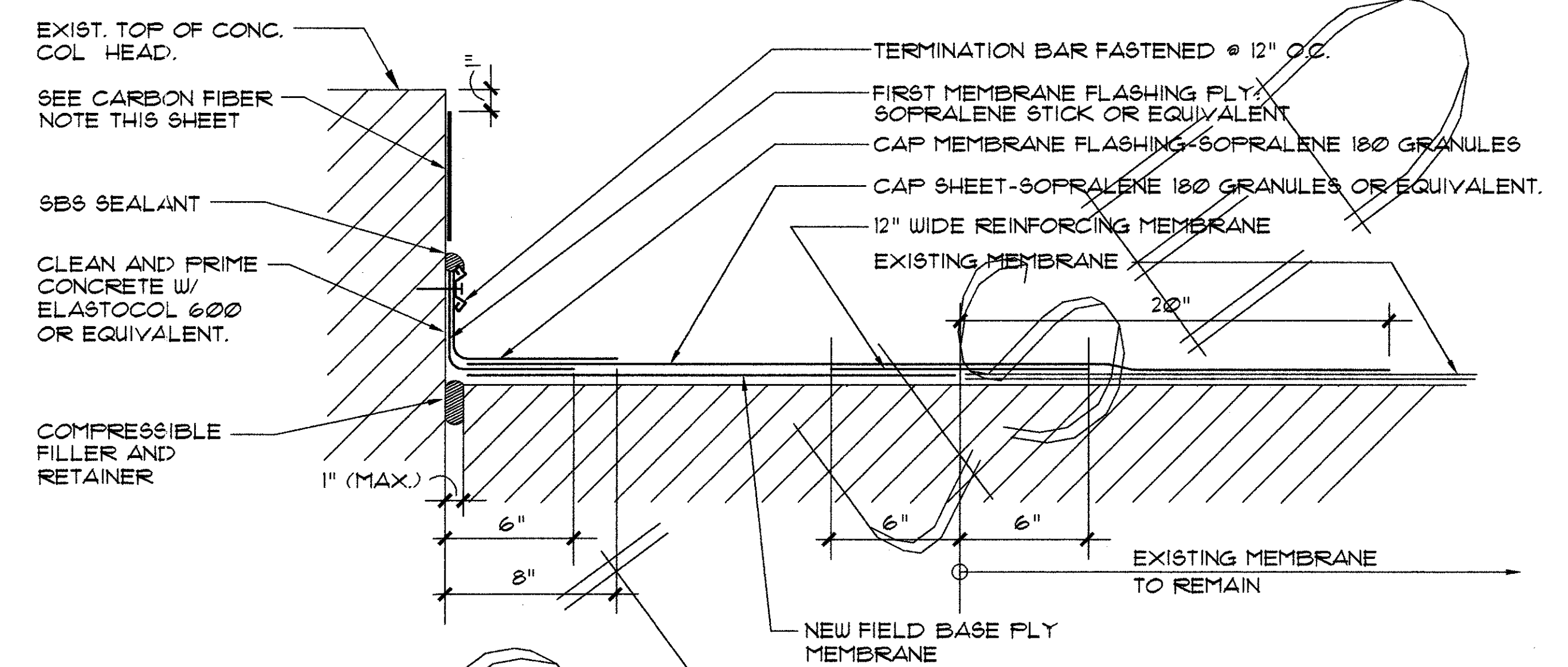
CARBON FIBER NOTE:
 NEW 12 mm THK x 80 mm WIDE (TYPE S812) SIKA CARBODUR LAMINATE OR APPROVED EQUAL DURING FIRST APPLICATION OF THE CARBODUR SYSTEM OR APPROVED EQUAL ON CONCRETE, THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER QUALITY CONTROL REPRESENTATIVE TO BE PRESENT FOR AS LONG AS NECESSARY TO ENSURE THAT ALL SURFACES HAVE BEEN PROPERLY PREPARED AND THAT THE PRODUCT IS APPLIED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. SUBSEQUENT APPLICATIONS SHALL BE PERFORMED FOLLOWING THE SAME PROCEDURE.



SECTION

3/4" = 1'-0"

NEW 12 mm THK x 80 mm WIDE x 16'-0" LG. (TYPE S812) SIKA CARBODUR LAMINATE OR APPROVED EQUAL CENTERED ON BEAM SPAN. DURING FIRST APPLICATION OF THE CARBODUR SYSTEM OR APPROVED EQUAL ON STEEL BEAMS, THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER QUALITY CONTROL REPRESENTATIVE TO BE PRESENT FOR AS LONG AS NECESSARY TO ENSURE THAT ALL SURFACES HAVE BEEN PROPERLY PREPARED AND THAT THE PRODUCT IS APPLIED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. SUBSEQUENT APPLICATIONS SHALL BE PERFORMED FOLLOWING THE SAME PROCEDURE.



NOTE: FLASHING DETAIL IS LIMITED TO COLUMN HEADS PENETRATING CONCOURSE ROOF AT COLUMN LINES 1G, 8G AND 9G.

NOTE: ALL PRODUCTS SHOWN OR APPROVED EQUAL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

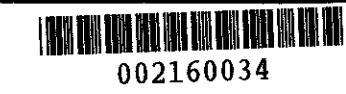
TYPICAL COL. HEAD FLASHING DETAIL

N.T.S.



AS BUILT
 THESE AS-BUILT DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION PROVIDED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT THEREOF.

STRUCTURAL DETAILS



no.	date

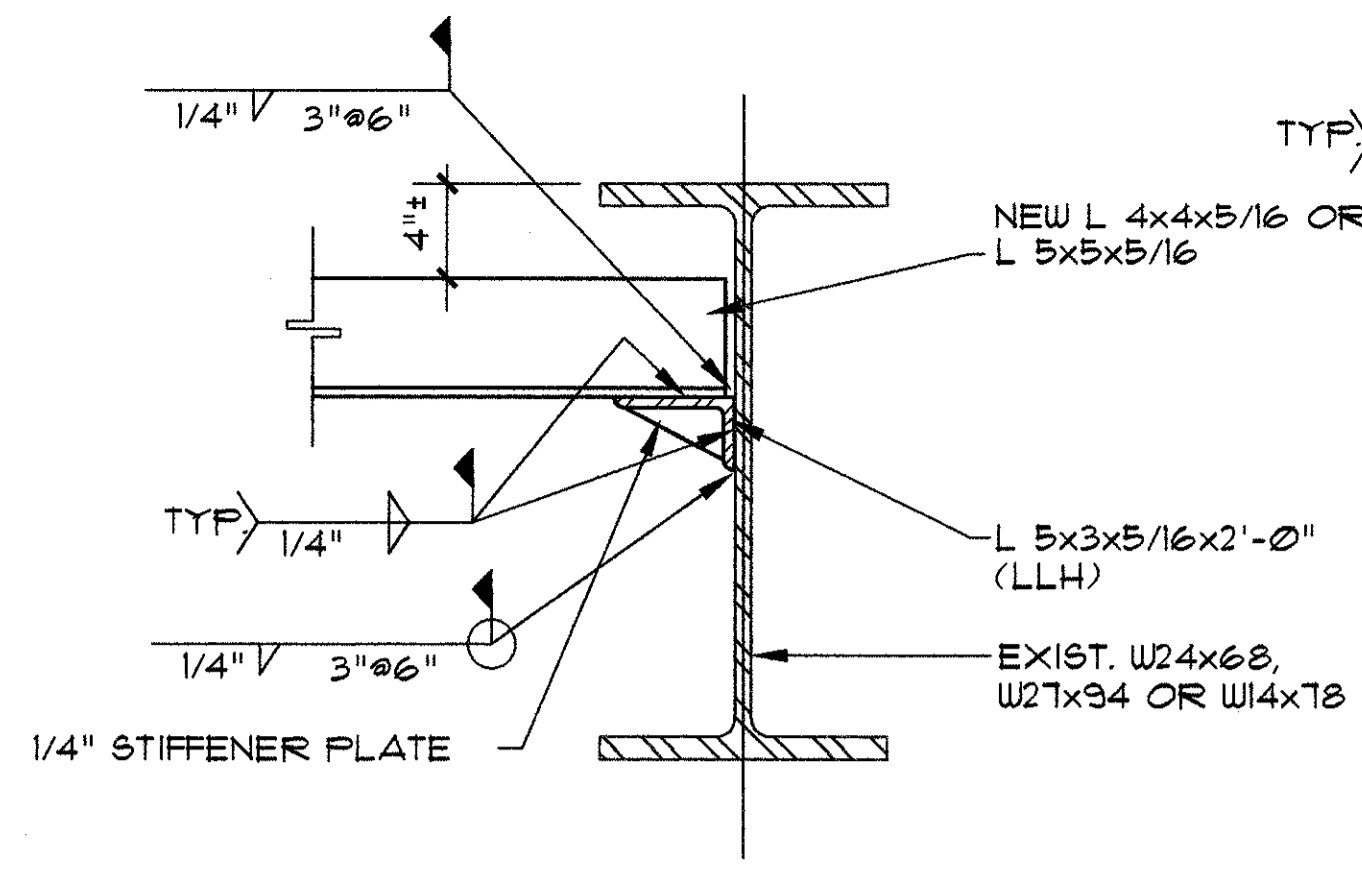
BRILL
 CONSULTING ENGINEERS, INC.
 2201 Ponce de Leon Boulevard
 Florida 33134
 Coral Gables, Florida
 Luis H. Riquelme, P.E. #2132

CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER A07B
 PROJECT MANAGER: BYRON DOWELL
 MIAMI INTERNATIONAL AIRPORT
 TELEPHONE NUMBER (305) 869 4016
 DADE COUNTY, FLORIDA

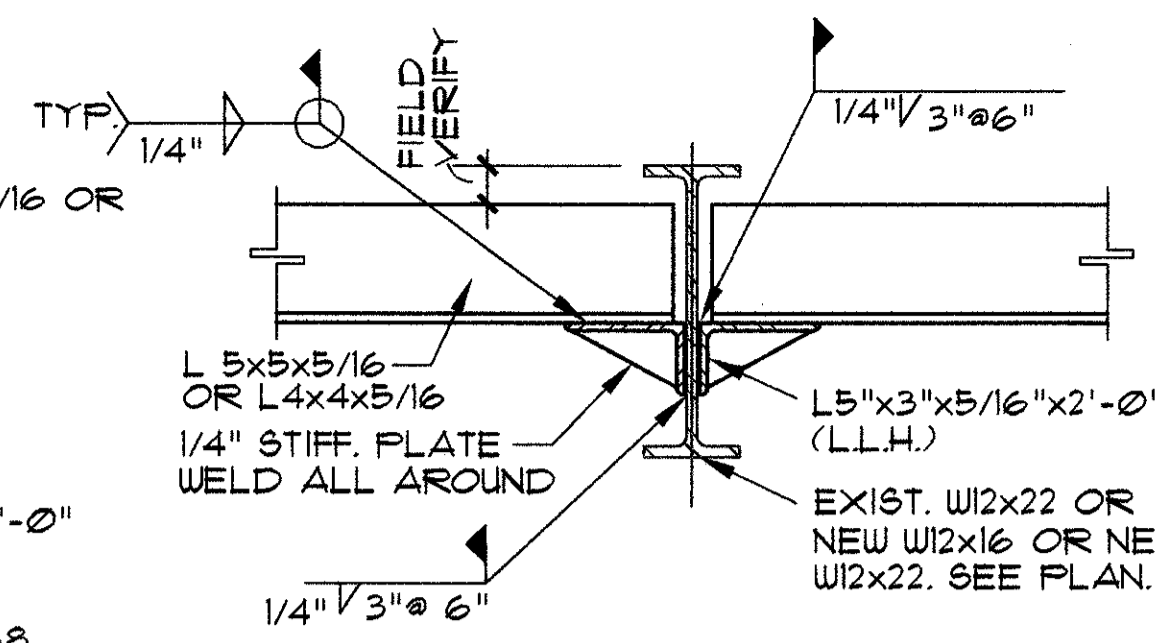
3-18-08	A.J.	A.S./L.R.
date	drawn by	checked by

file number	9538
drawing	

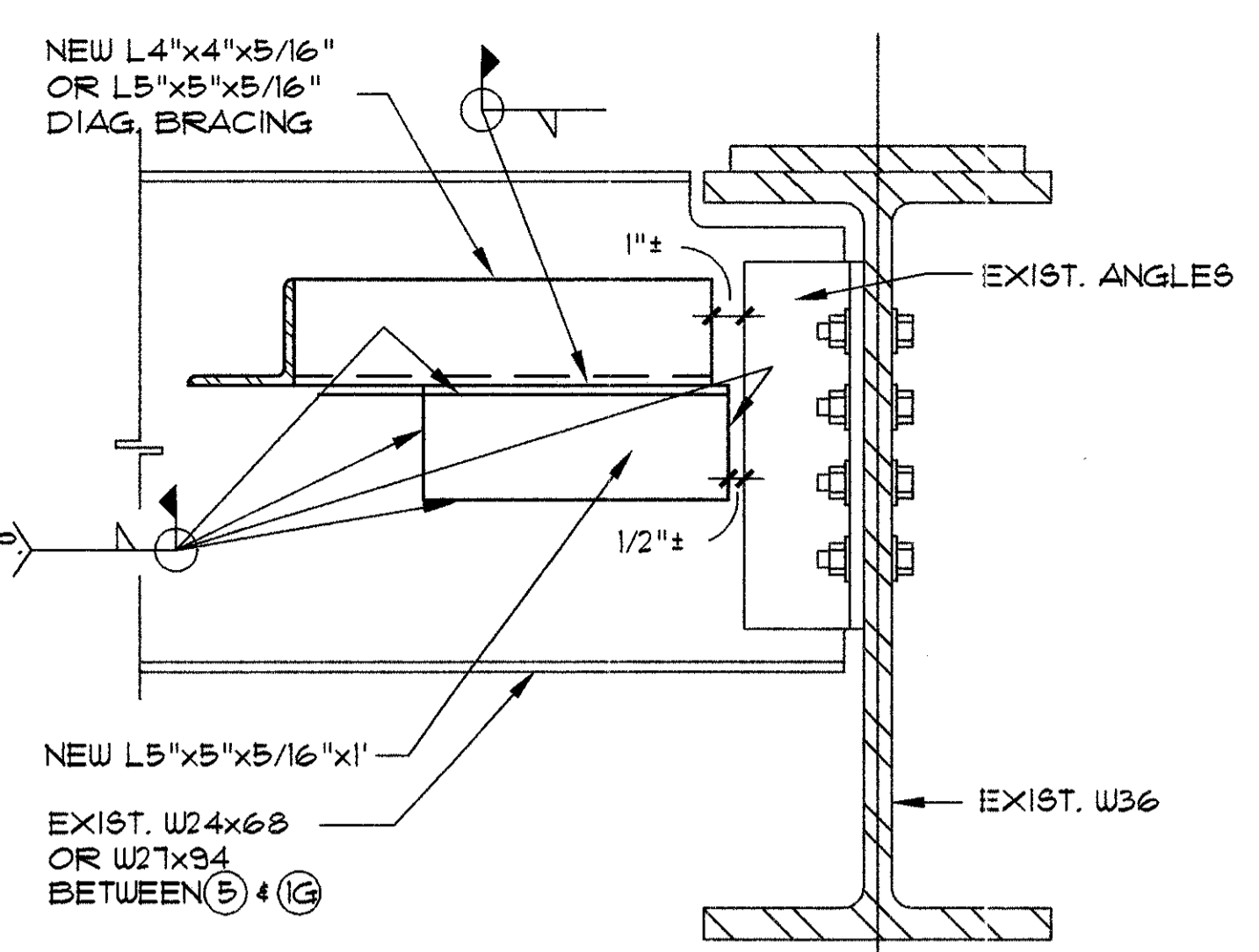
S7



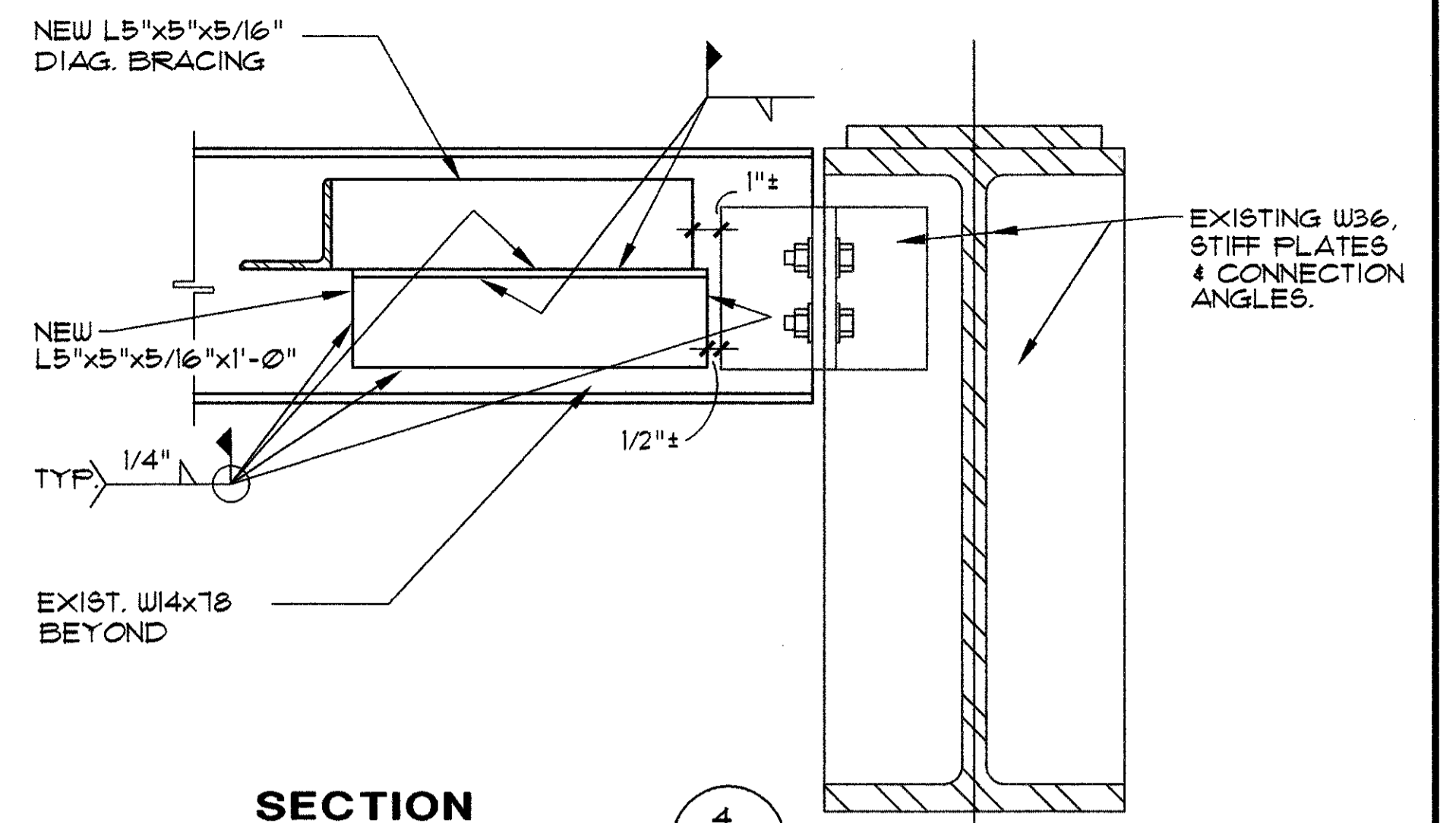
SECTION 1
1 1/2" = 1'-0"



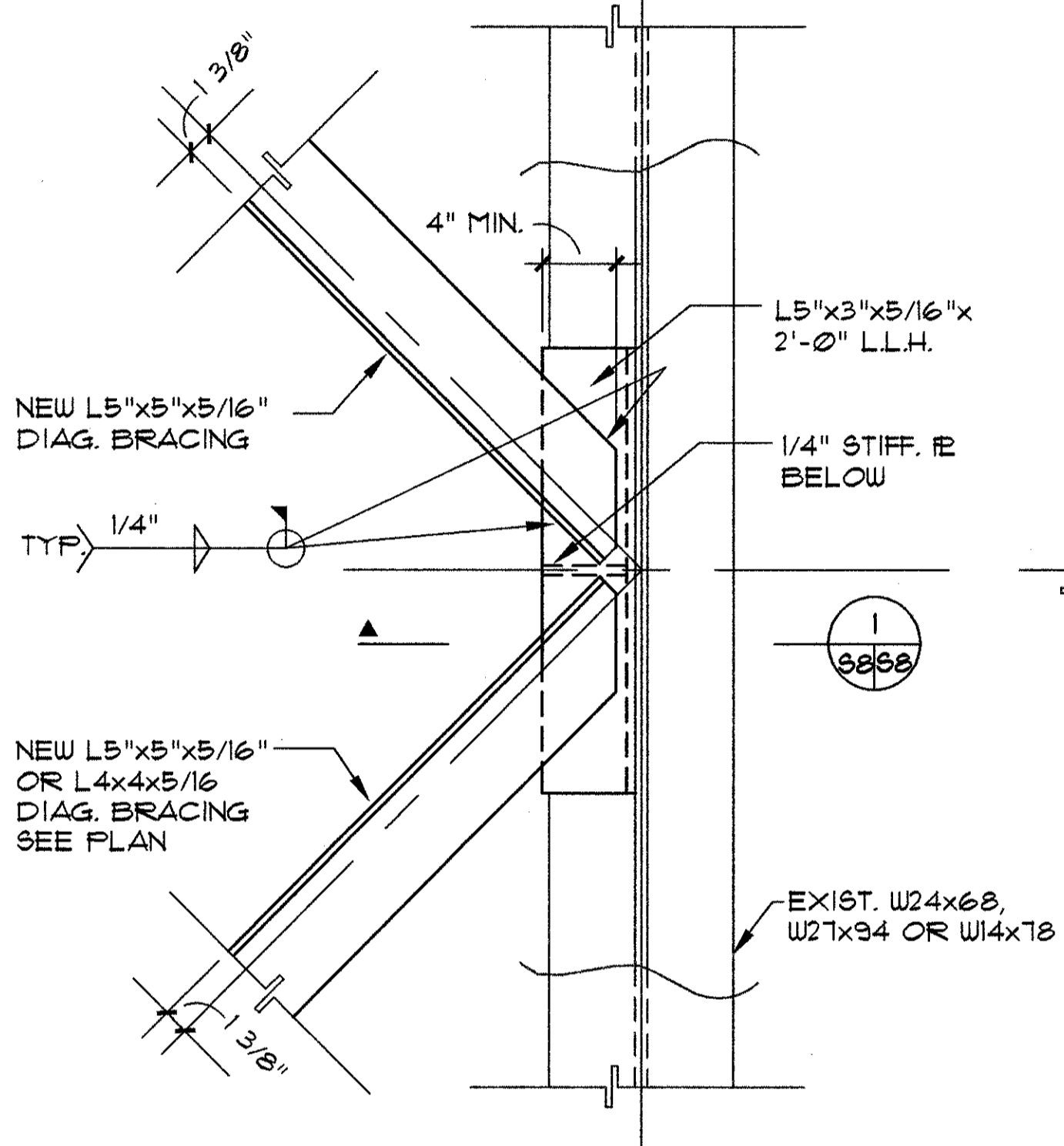
SECTION 2
1 1/2" = 1'-0"



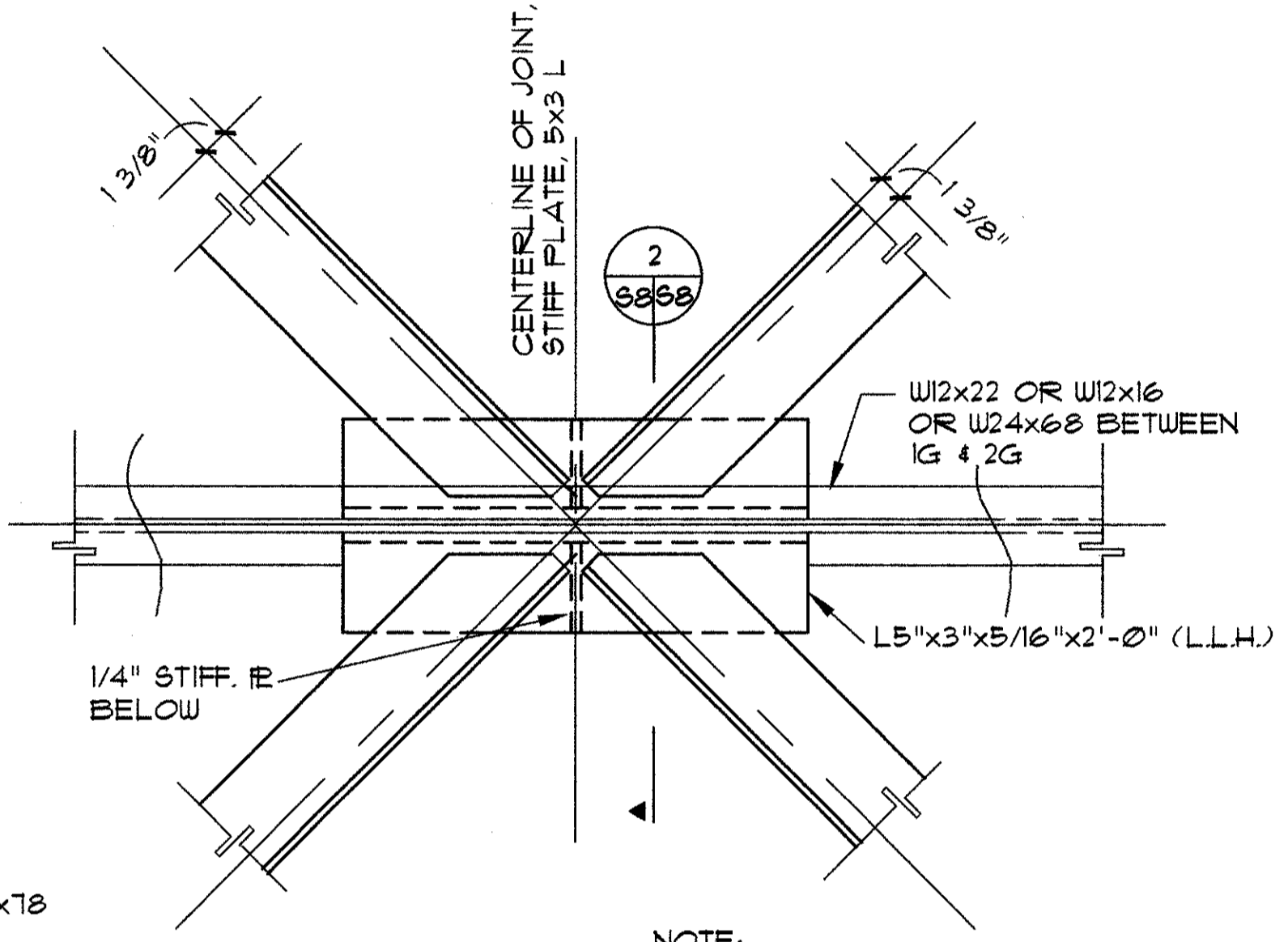
SECTION 3
1 1/2" = 1'-0"



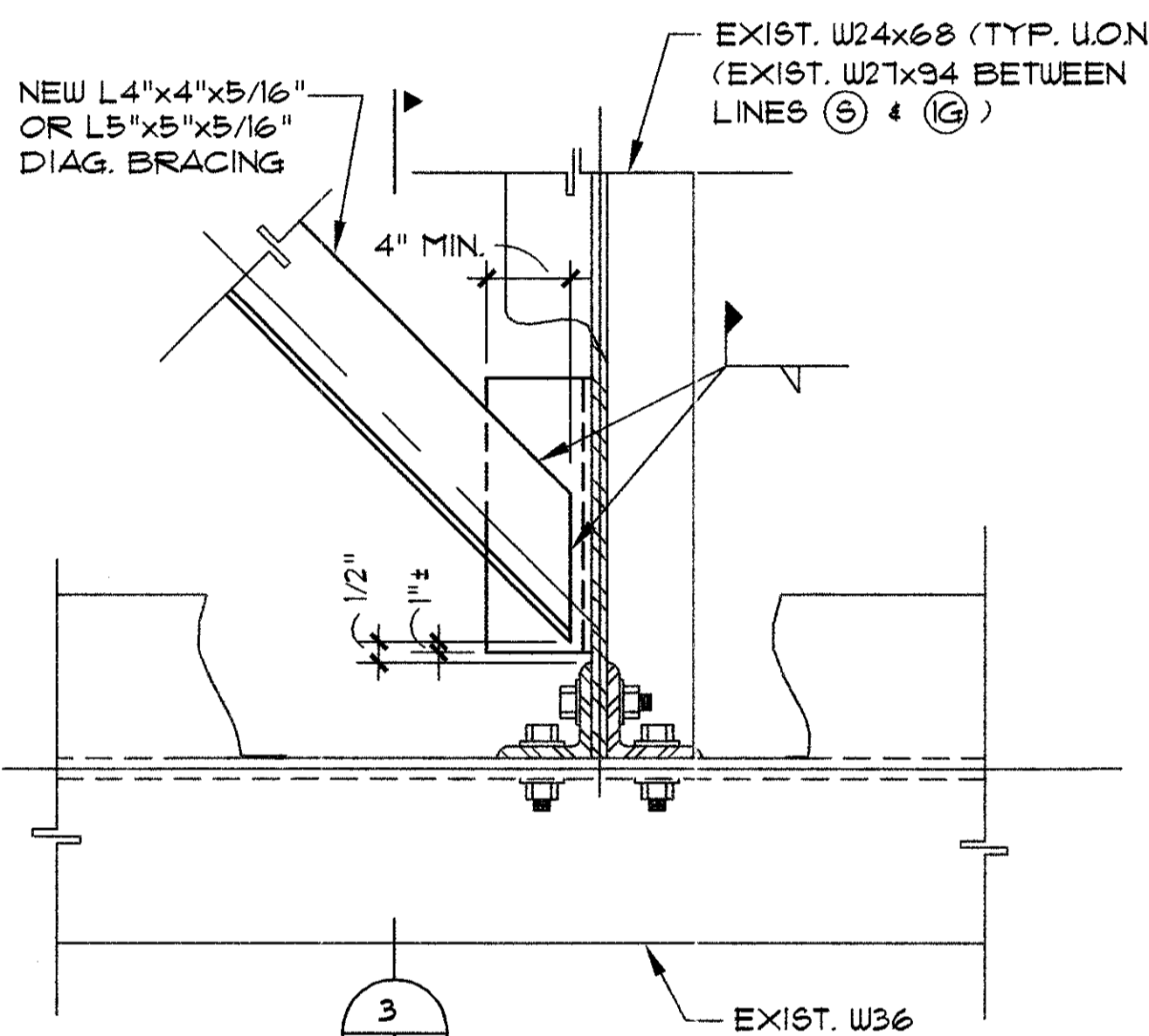
SECTION 4
1 1/2" = 1'-0"



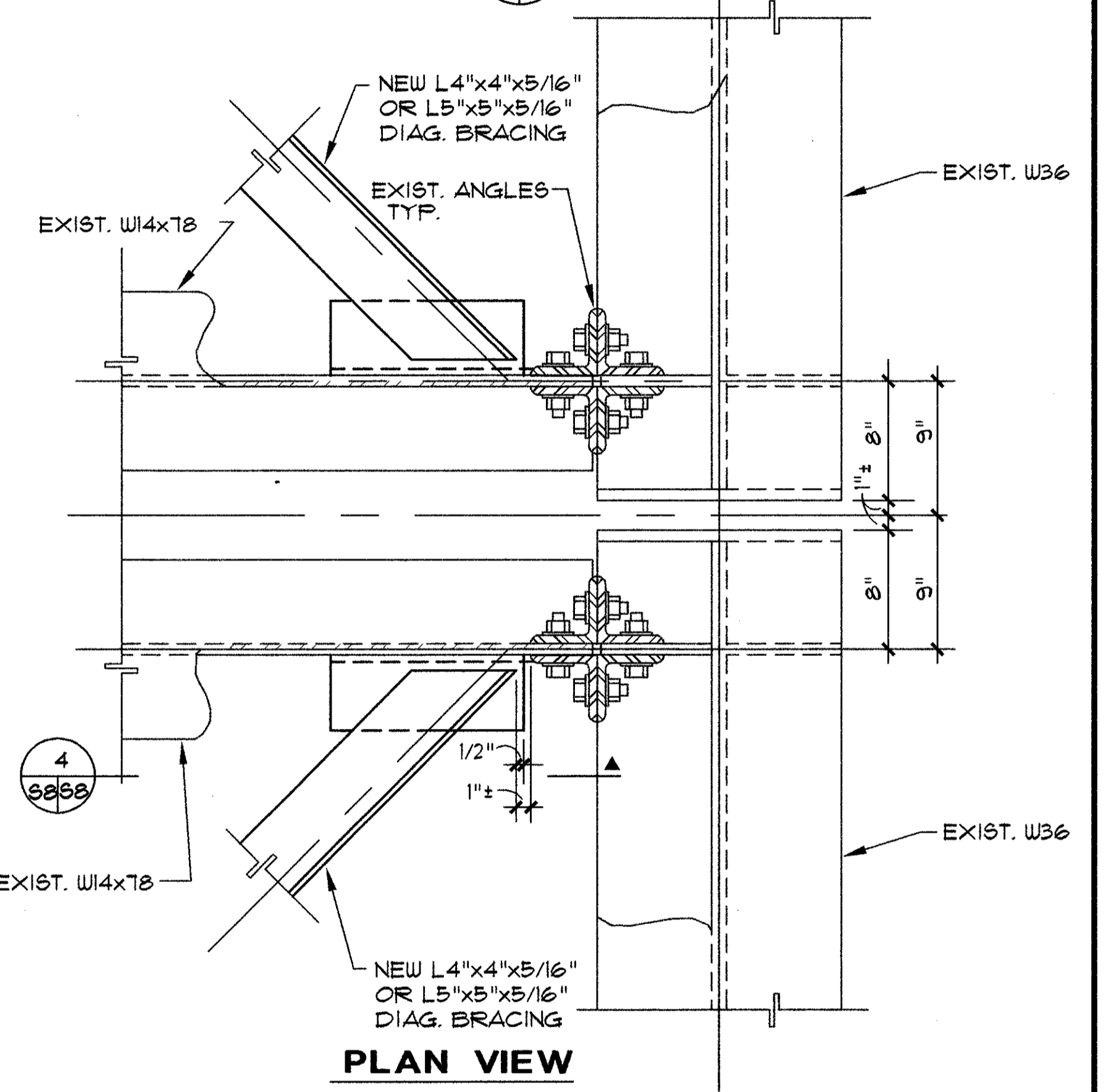
PLAN VIEW 1



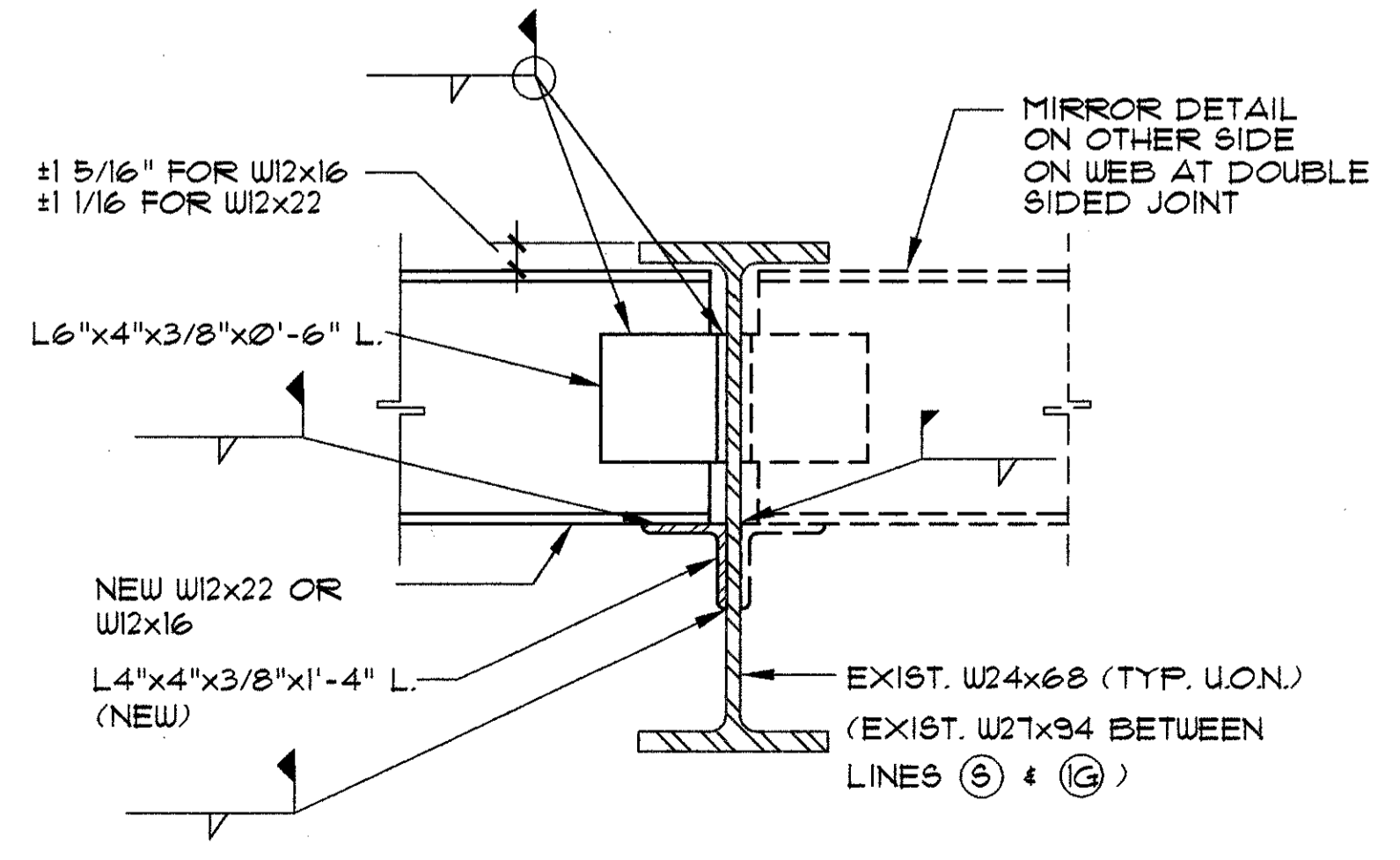
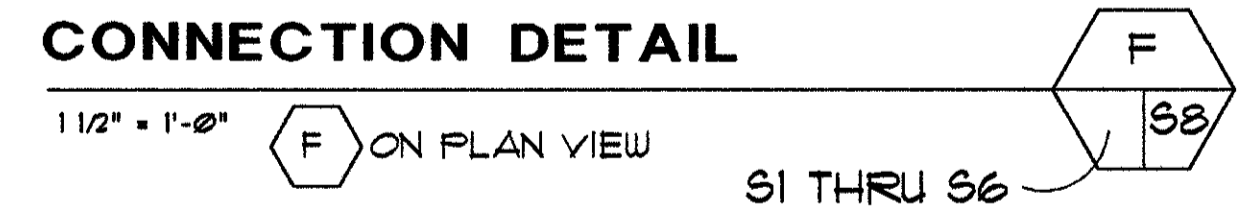
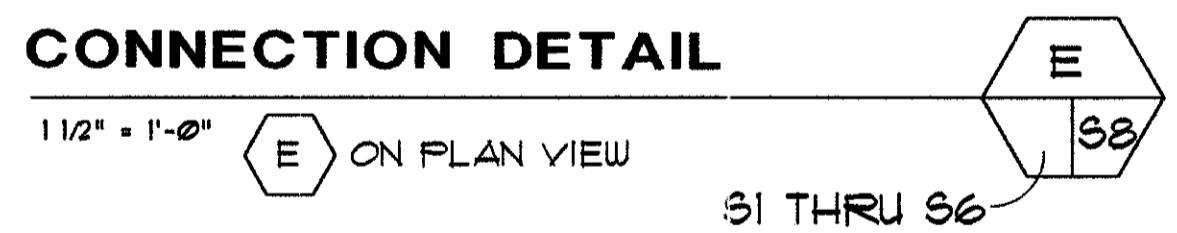
PLAN VIEW 2



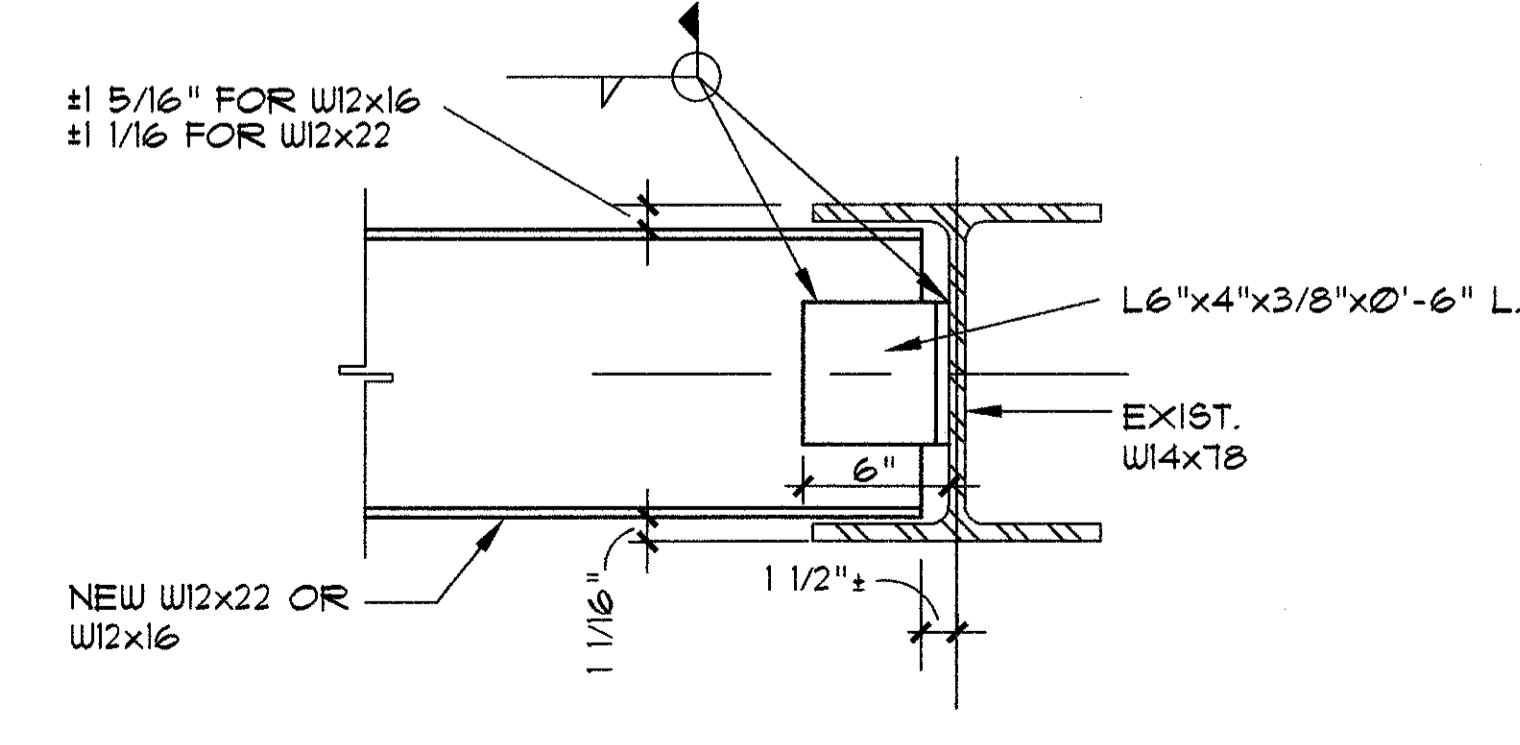
PLAN VIEW 3



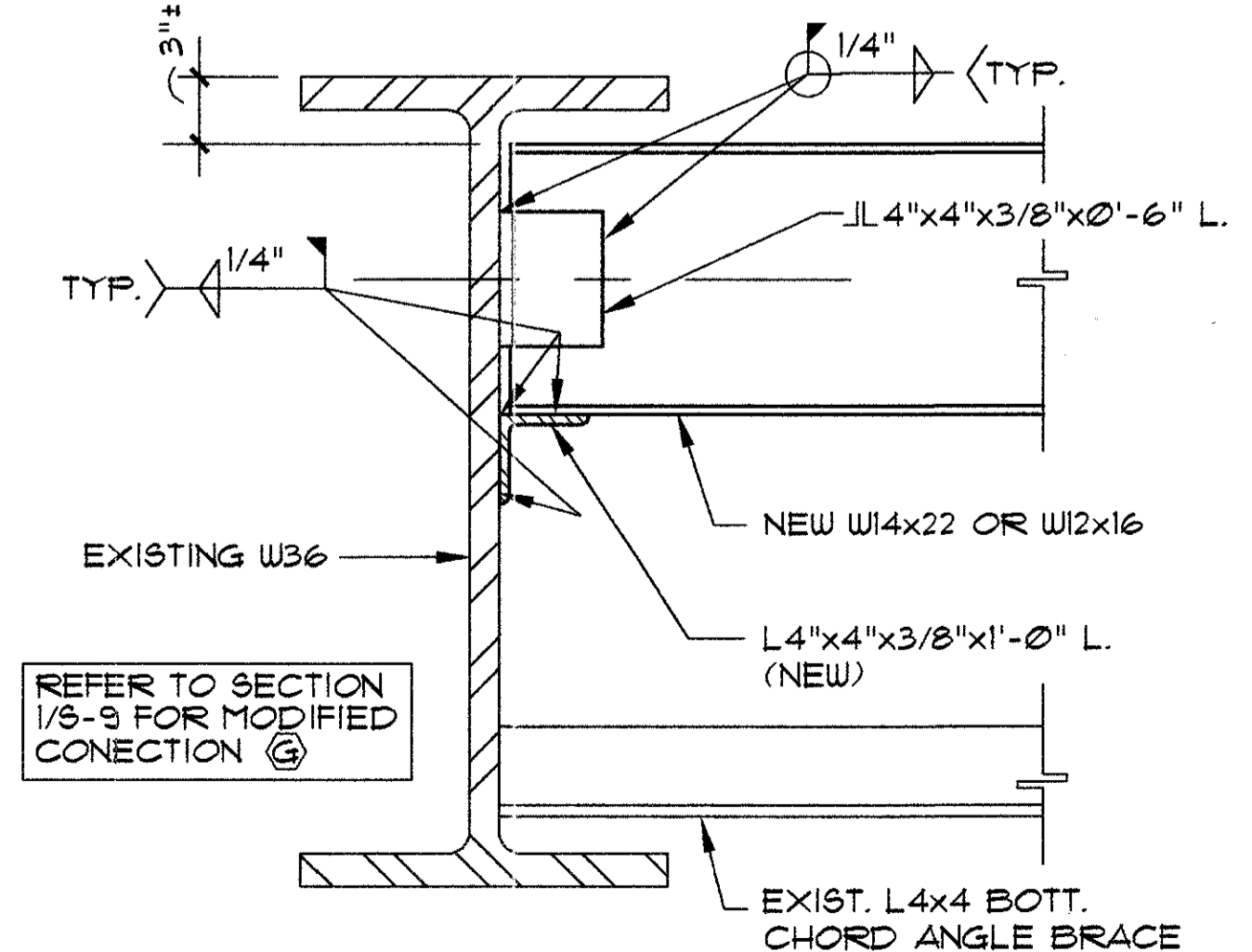
PLAN VIEW 4



CONNECTION DETAIL B
1 1/2" = 1'-0"



CONNECTION DETAIL D
1 1/2" = 1'-0"



CONNECT. DETAIL G
1 1/2" = 1'-0"

NOTE:
FIELD BURNING OR DRILLING OF EXISTING MEMBERS FOR ERECTION BOLTS FOR CONSTRUCTION IS NOT ALLOWED

AS BUILT
THESE AS-BUILT DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION PROVIDED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT THEREOF.



STRUCTURAL DETAILS

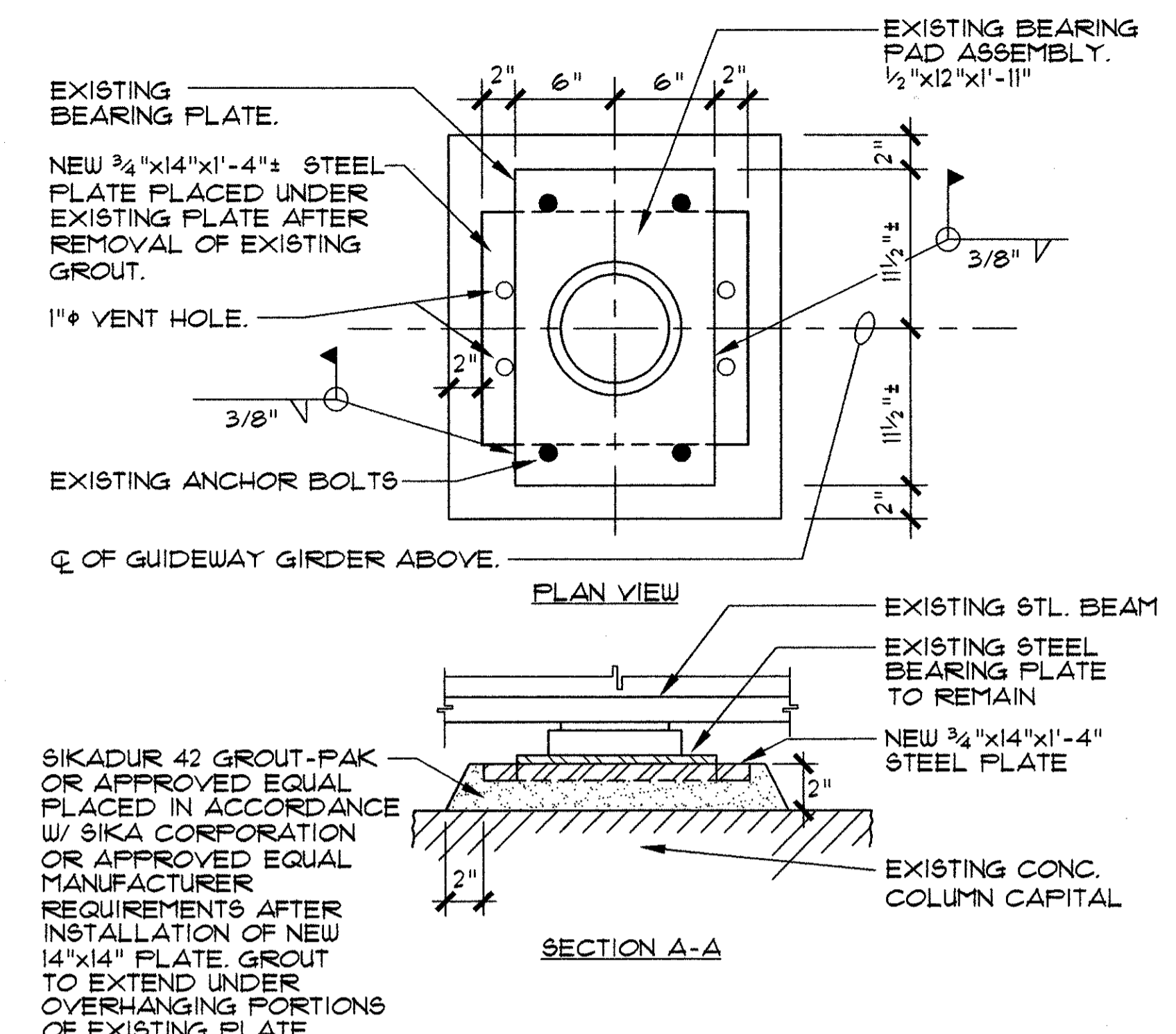
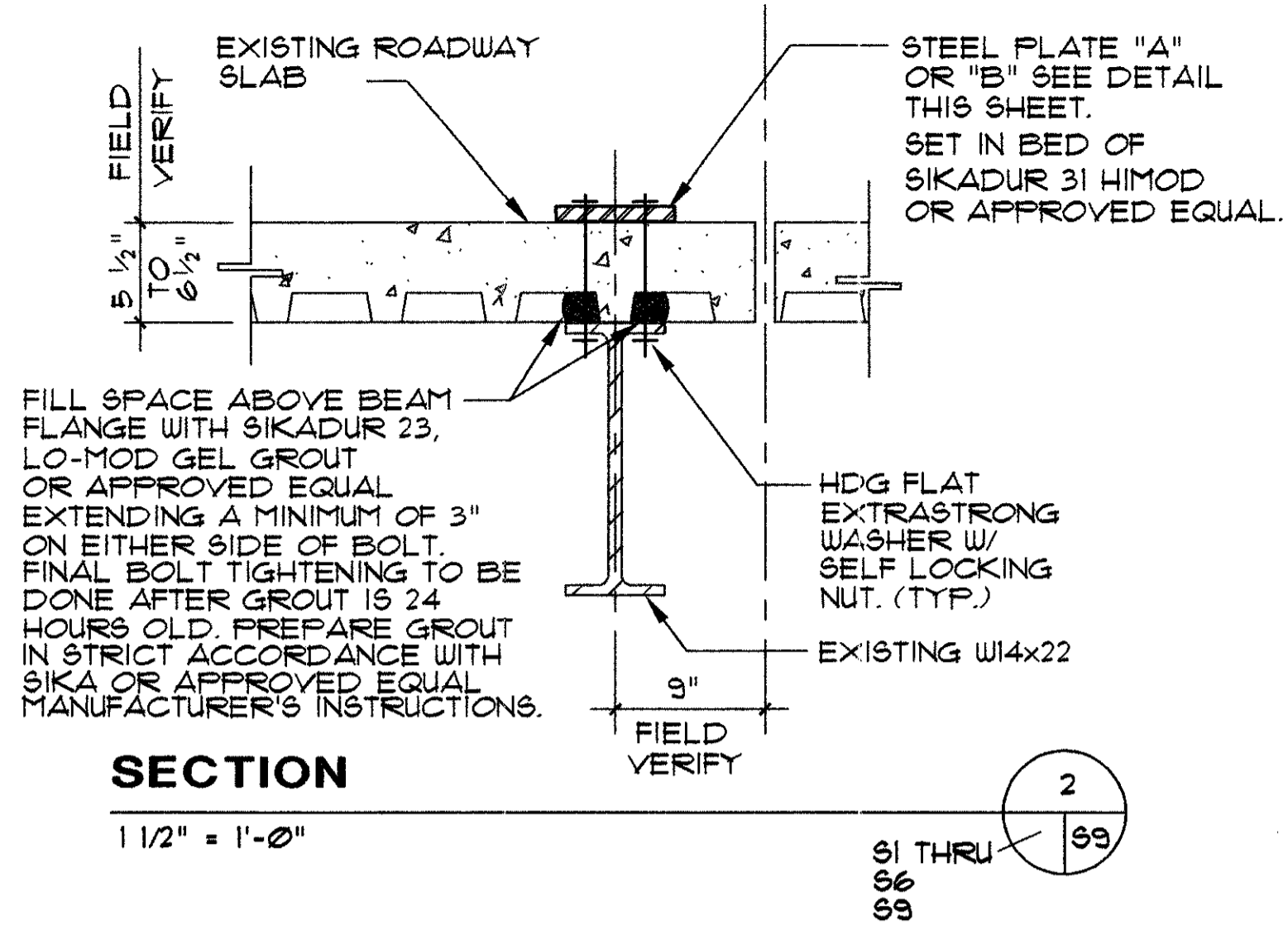
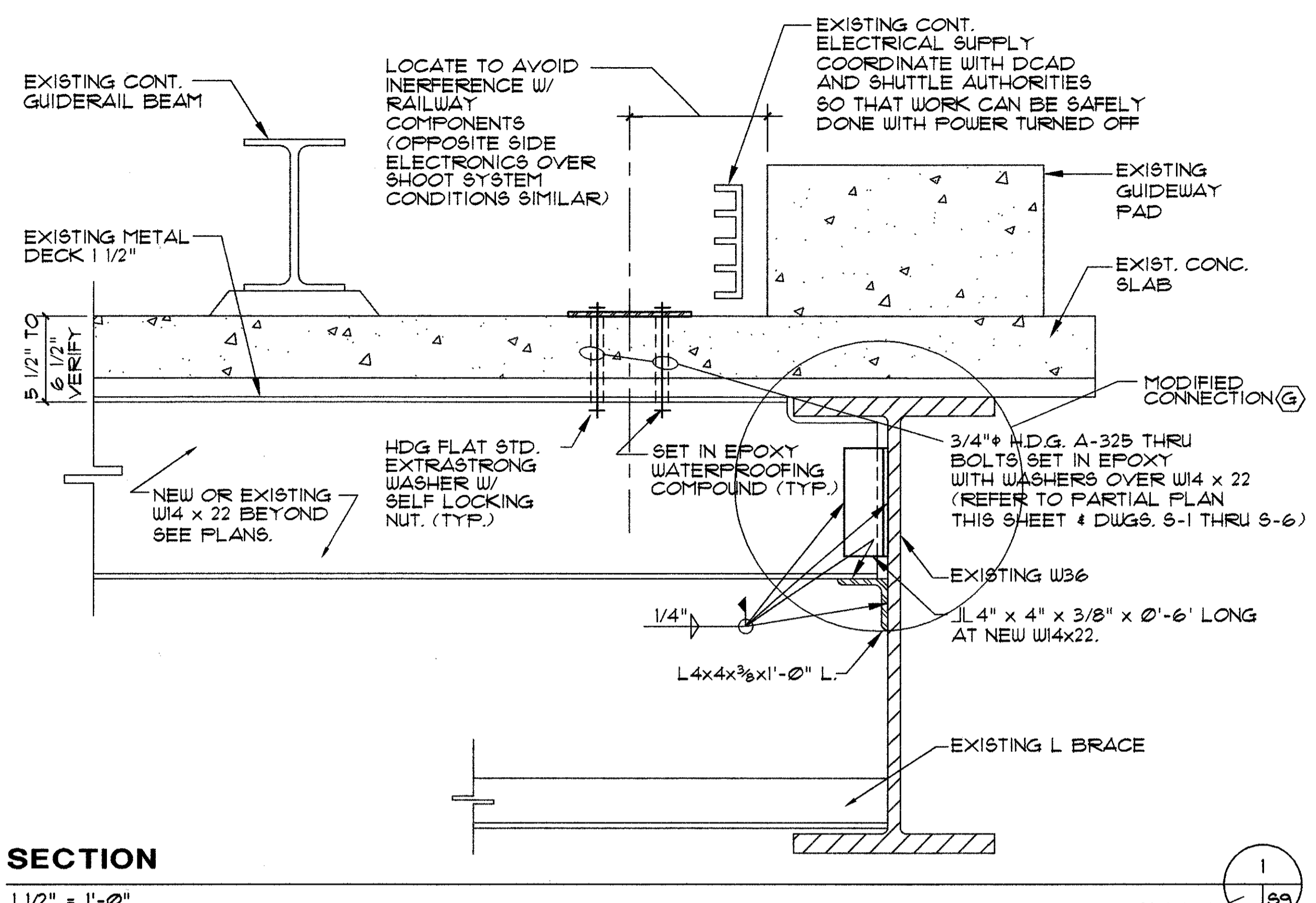
no.	date	revision

BRILL
consulting engineers, inc.
2601 ponce de leon boulevard
miami, florida 33134
phone: (305) 446-3381
fax: (305) 446-3382
Luis Y. Roscigno, P.E. 92192

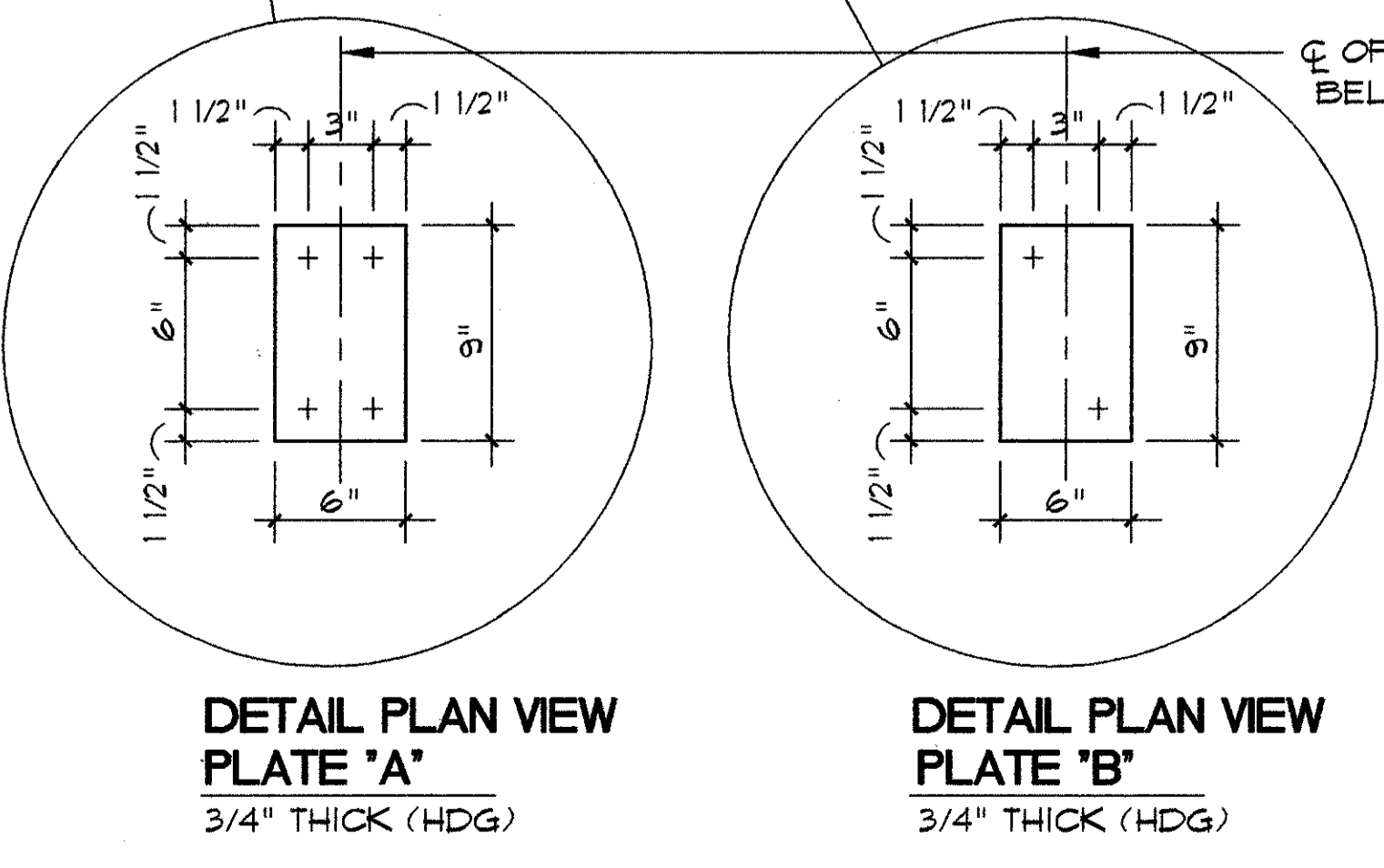
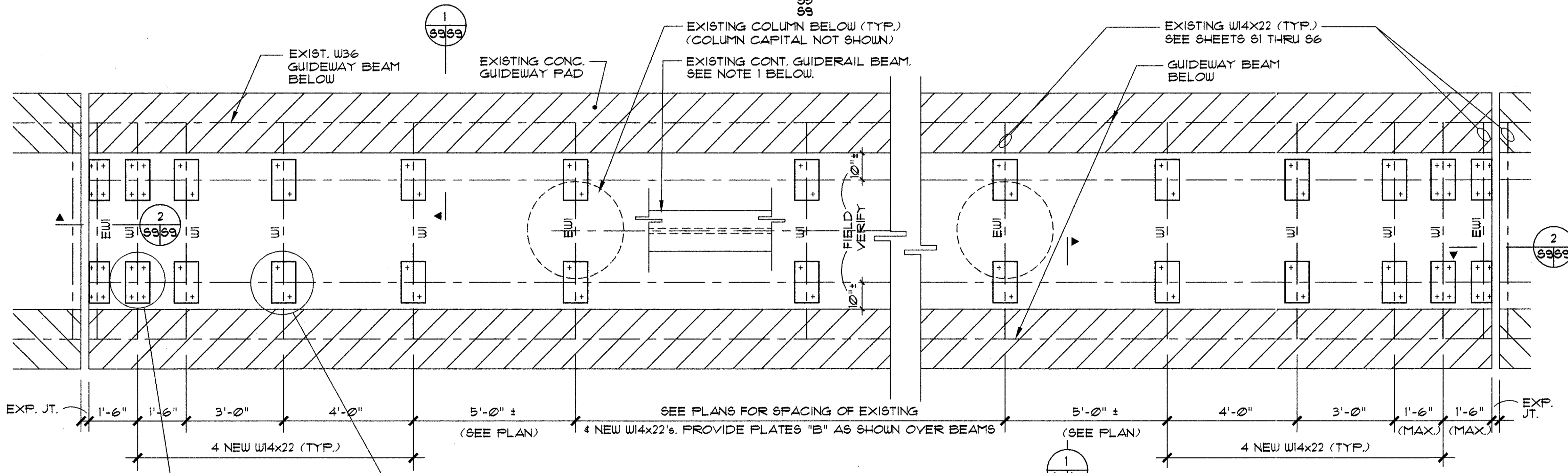
CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER A017B
TELEPHONE NUMBER (305) 869 4016
MIAMI INTERNATIONAL AIRPORT
DADE COUNTY, FLORIDA

3-5-98	date
	drawn by
	checked by
	A.E. / L.R.

file number	9538
drawing	S8



- BASE PLATE REPAIR SEQUENCE:**
1. REMOVE ALL RUST FROM EXISTING PLATES AND BOLTS FOR ALL BEARING ASSEMBLIES AT ALL LOCATIONS. SCHEDULE INSPECTION TO DETERMINE EXTENT OF DAMAGE.
 2. FOLLOWING INSPECTION, AT LOCATIONS WHERE COMPLETE BASE PLATE REPAIR IS REQUIRED, SUPPORT GIRDER ON BOTH SIDES OF EXISTING BEARING PLATE.
 3. REMOVE EXISTING GROUT COMPLETELY.
 4. INSTALL NEW ADDITIONAL 3/4" PLATE
 5. PLACE SIKADUR 42 GROUT-PAK OR APPROVED EQUAL.
 6. SHUTTLE MUST BE OUT OF SERVICE DURING THIS PERIOD UNTIL GROUT HAS REACHED DESIGN STRENGTH. COORDINATE THIS SHUTTLE DOWN TIME WITH OWNER.
 7. UPON COMPLETION OF WORK FIELD PRIME ALL EXPOSED STRUCTURAL STEEL COMPONENTS AT ALL LOCATIONS.



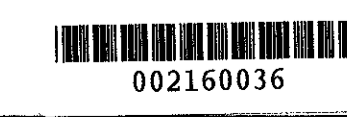
PARTIAL PLAN S9
DISTRIBUTION OF STEEL ANCHOR PLATES OVER W14x22 (W1 + EW1) BEAMS TYPICAL OF EACH CANTILEVER SECTION
N.T.S. (SEE PLANS FOR ADDITIONAL INFORMATION)

NOTES:

1. GUIDEWAY CENTER, GUIDERAIL AND ELECTRICAL SYSTEMS, ETC., NOT SHOWN FOR CLARITY. CONTRACTOR SHALL TAKE SPECIAL ATTENTION TO RETAIN THE INTEGRITY OF THE EXISTING OVERSHOOT FLAT SYSTEM AND ALL OTHER OPERATING SYSTEMS OF THE GUIDEWAY. ANY DAMAGE WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
2. HDG = HOT DIPPED GALVANIZED
3. W1 DENOTES NEW STL. BM. W14x22
4. EW1 DENOTES EXIST. STL. BM. W14x22
5. ALL DIMENSIONS FIELD VERIFY PRIOR TO FABRICATION.
6. ALL NUTS USED TO TIGHTEN PLATES "A" AND "B" WITHIN A GIVEN TYPICAL PARTIAL PLAN AS SHOWN ABOVE MUST REMAIN OFF THEIR BOLTS UNTIL SUCH TIME AS THEY ALL CAN BE TIGHTENED FULLY DURING A PERIOD OF SHUTTLE INACTIVITY.

AS BUILT
THESE AS-BUILT DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION PROVIDED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT THEREOF.

STRUCTURAL DETAILS



date	revision

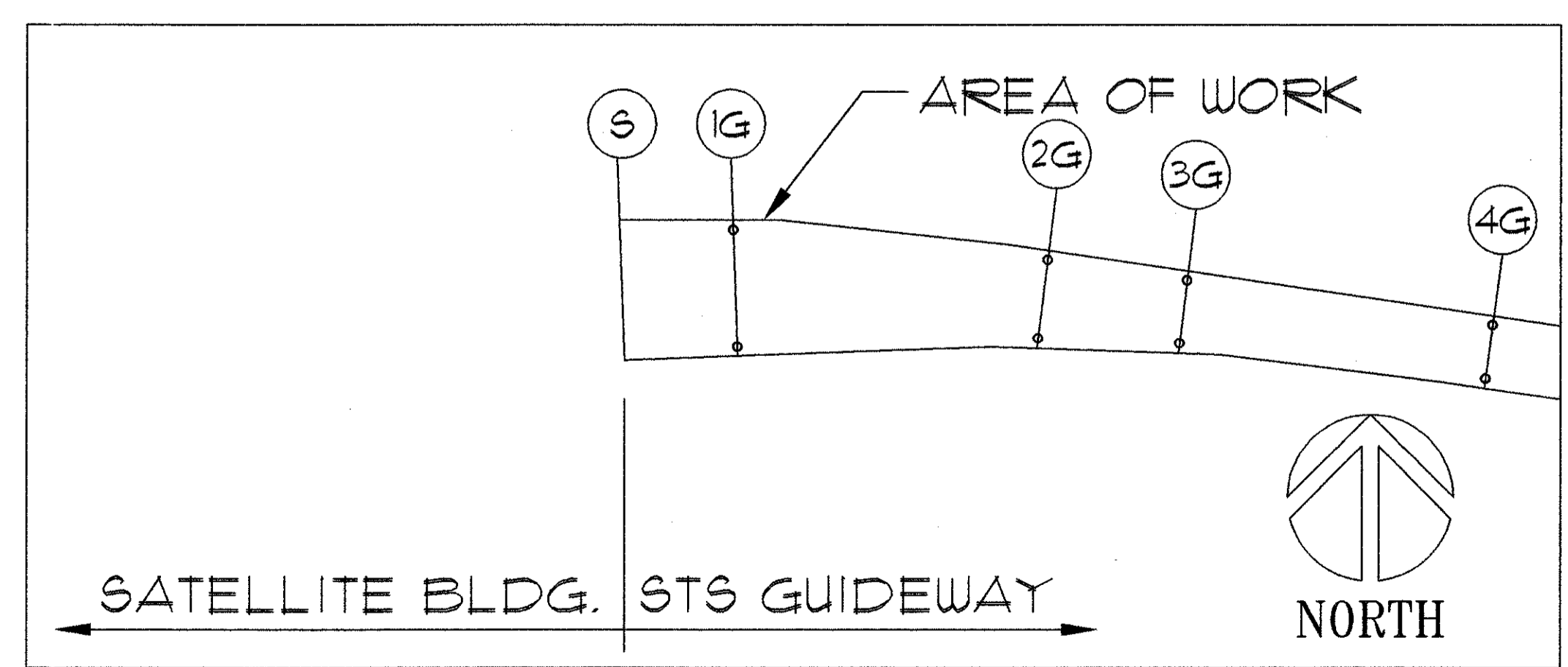
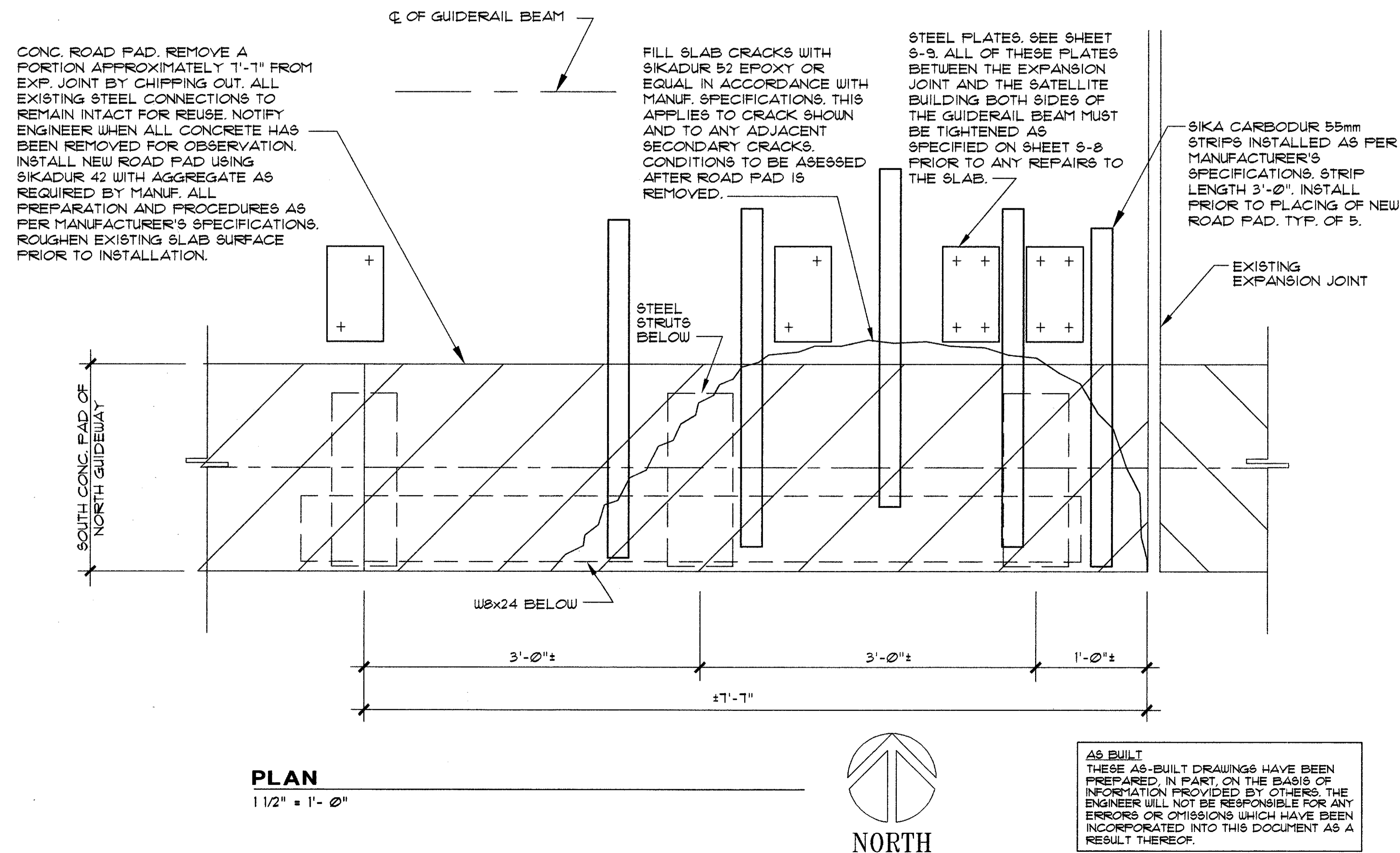
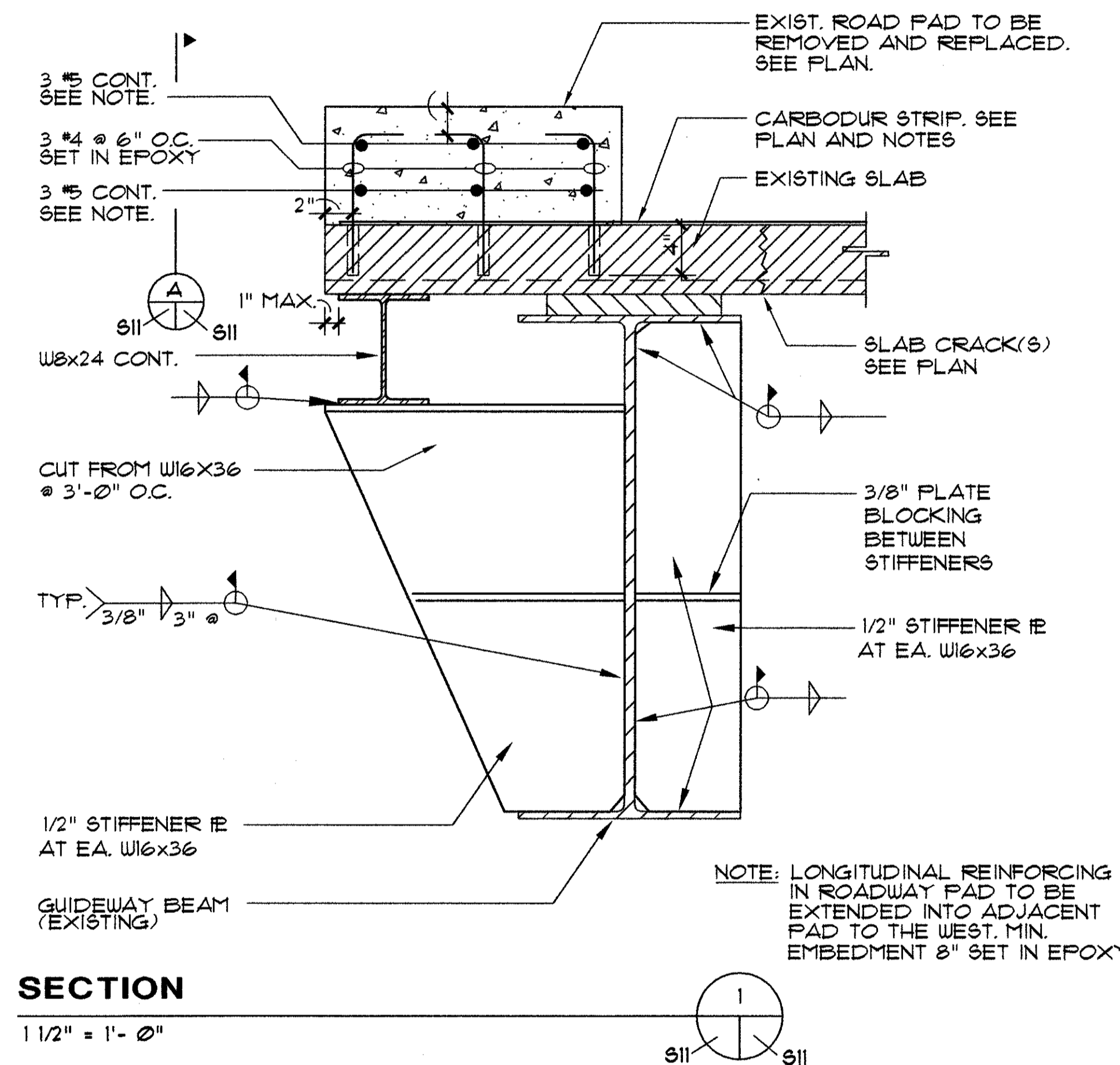
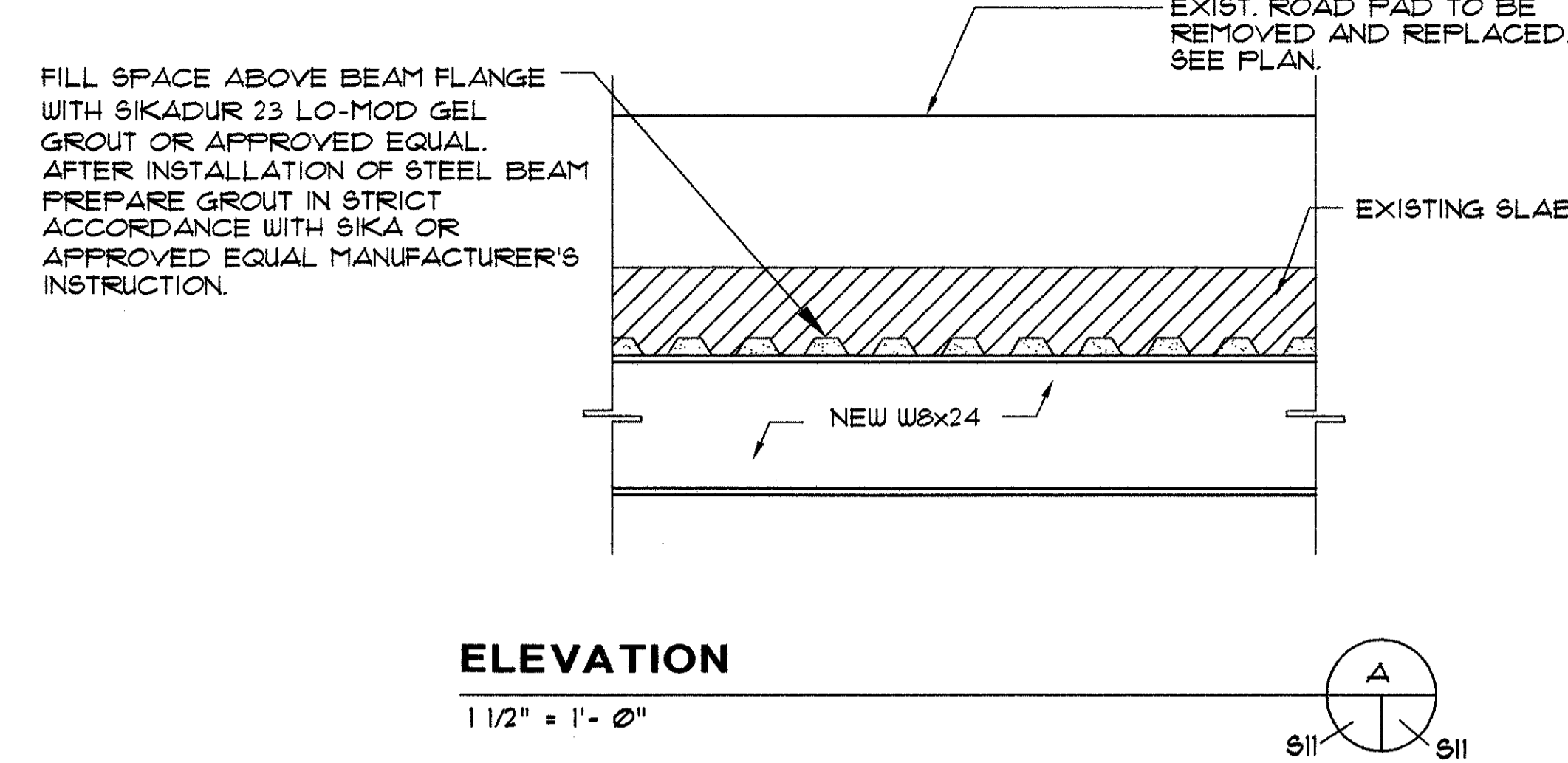
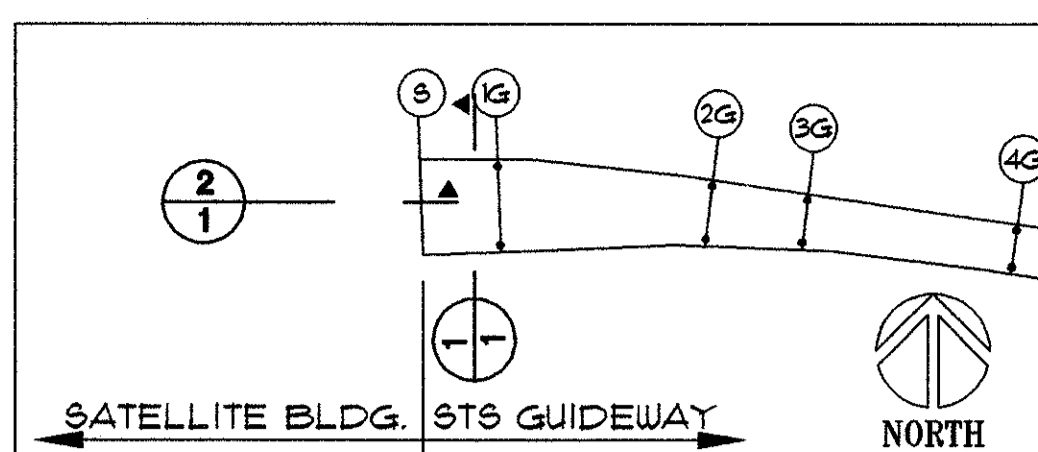
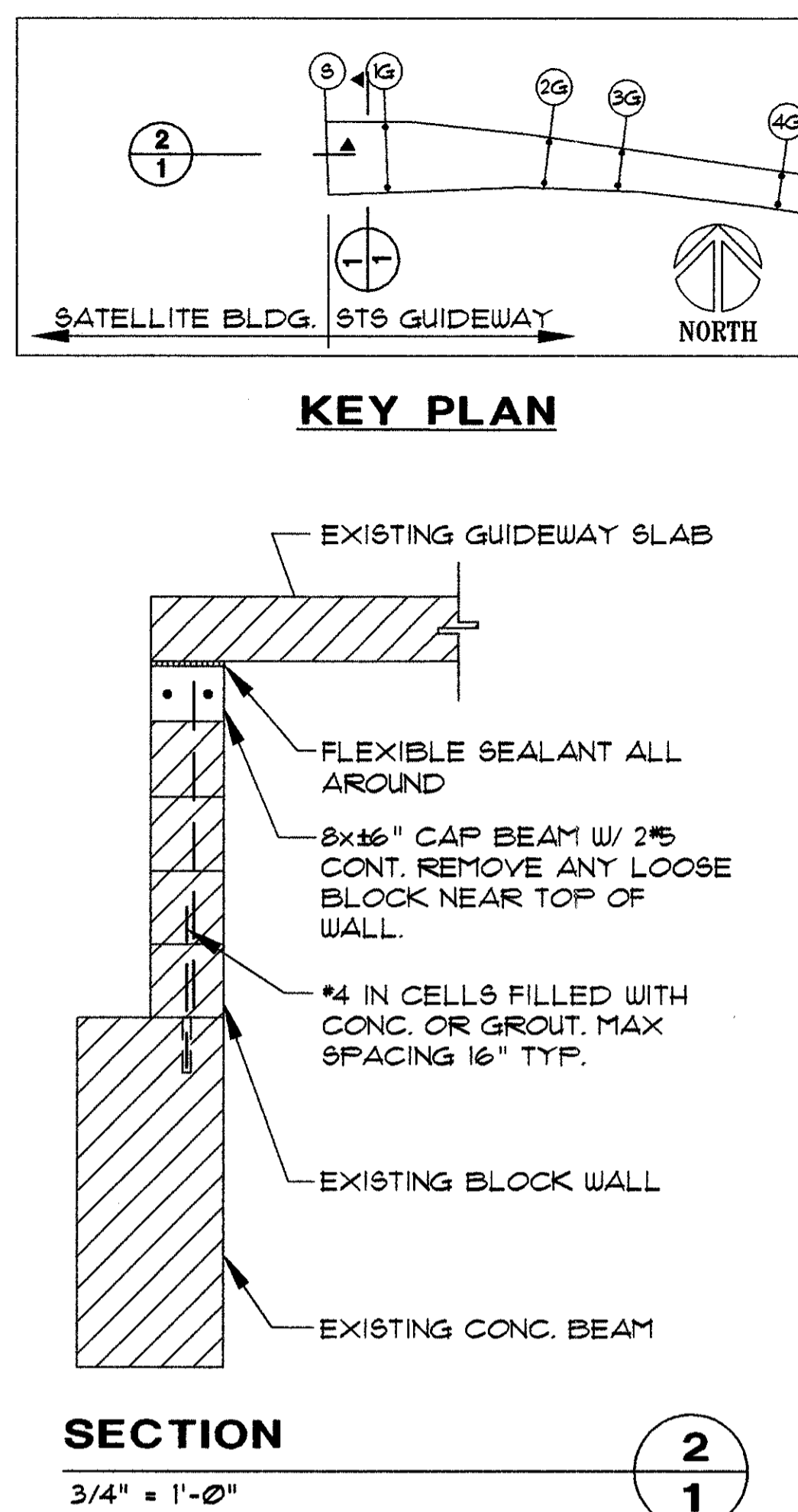
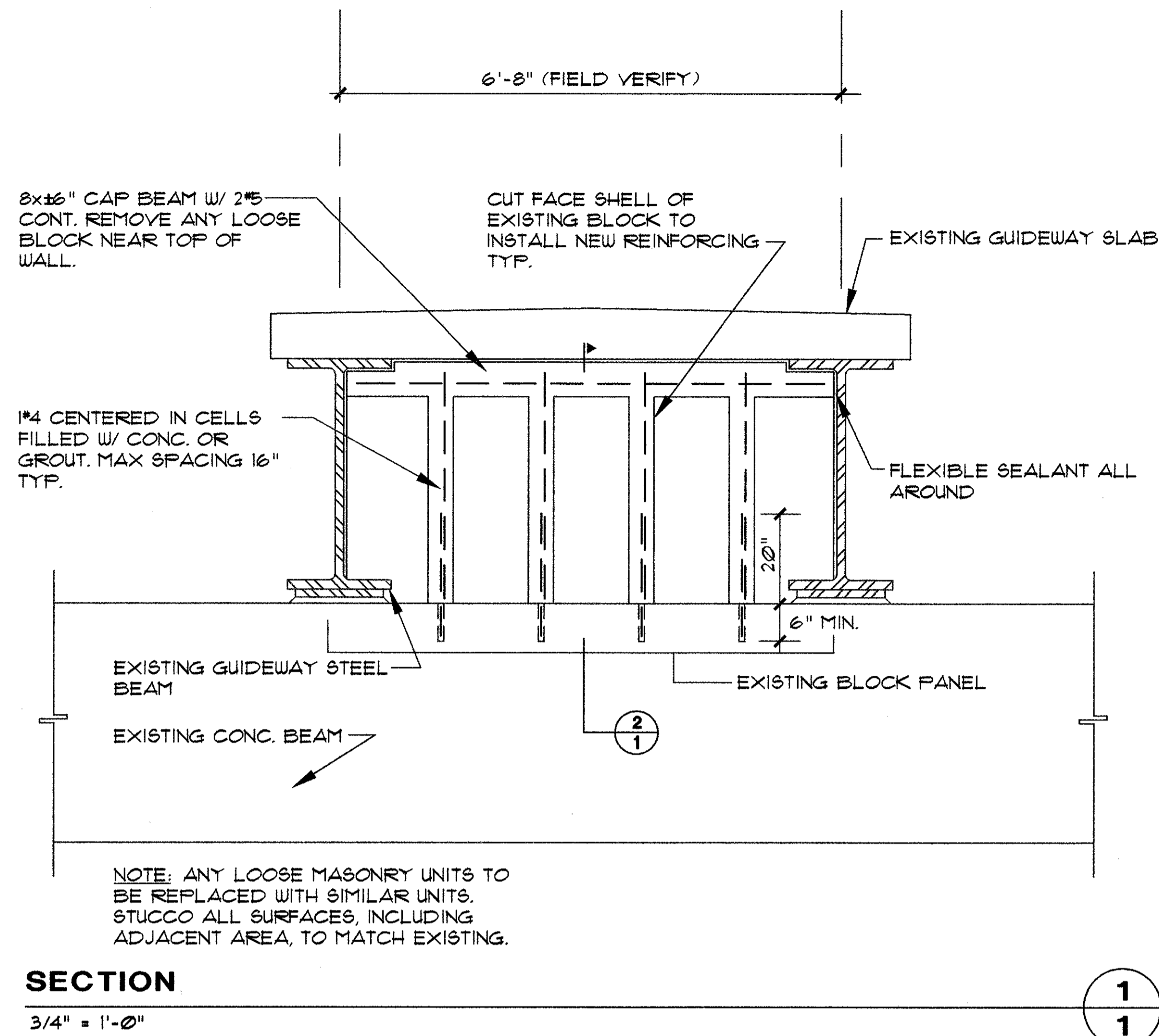
BRILL
consulting engineers, inc.
200 prairie de bon boulevard
coral gables, florida 33134
phone 305.442.1100
fax 305.442.1101
www.brill.com

CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
DCAD PROJECT NUMBER A017B
TELEPHONE NUMBER (305) 869 4016
DADE COUNTY, FLORIDA

PROJECT MANAGER: BYRON DOWELL
MIAMI INTERNATIONAL AIRPORT

3-5-08	AJ.	A.S./L.R.
date	drawn by	checked by

file number
9538
drawing
S9



REPAIRS TO EXISTING ROADWAY KEY PLAN

By	
Checked by	
Date	
File number	99148
drawing	S11

CONCOURSE "E" STS PEOPLE MOVER BRIDGE REPAIRS
 PROJECT MANAGER: BYRON DOWELL
 MIAMI INTERNATIONAL AIRPORT

TELEPHONE NUMBER (305) 869 4016
 DADE COUNTY, FLORIDA

S:\05\9538\9538\AS11.DWG Mon Jun 05 11:20:51 2000

AS BUILT
 THESE AS-BUILT DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION PROVIDED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT THEREOF.

002160038