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# **MIAMI-DADE AVIATION DEPARTMENT CONCOURSE E SATELLITE APM BRIDGE REHABILITATION PROJECT**

# **MIAMI-DADE COUNTY** DANIELLA LEVINE CAVA MAYOR

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MDAD PROJECT NO. AB003A

MIAMI-DADE COUNTY 2100 NW 42ND AVENUE, MIAMI, FLORIDA 33126

# **BID SET**

March, 2024

CHAIRMAN VICE CHAIRMAN

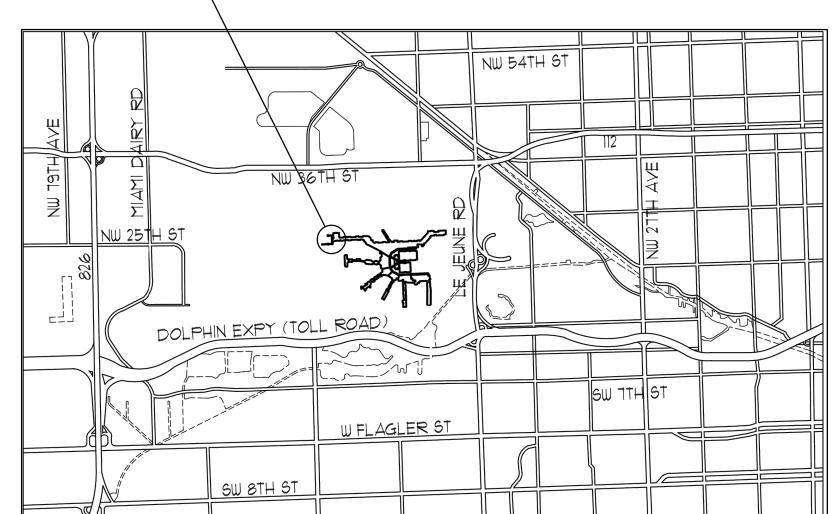
DISTRICT 8 DISTRICT 9 DISTRICT 10 DISTRICT 11 DISTRICT 12 DISTRICT 13 DANIELLE COHEN HIGGINS KIONNE L. MCGHEE ANTHONY RODRIGUEZ ROBERTO GONZALEZ JUAN CARLOS BERMUDEZ RENE GARCIA

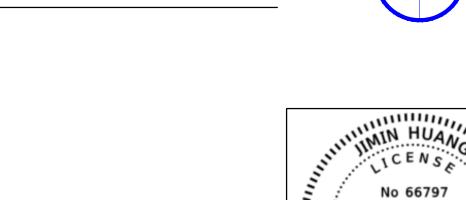
# COUNTY ATTORNEY **AVIATION DIRECTOR**

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## MIAMI INTERNATIONAL AIRPORT CONCOURSE E SATELLITE -





STATE OF

ENGINEER OF RECORD: JIMIN HUANG

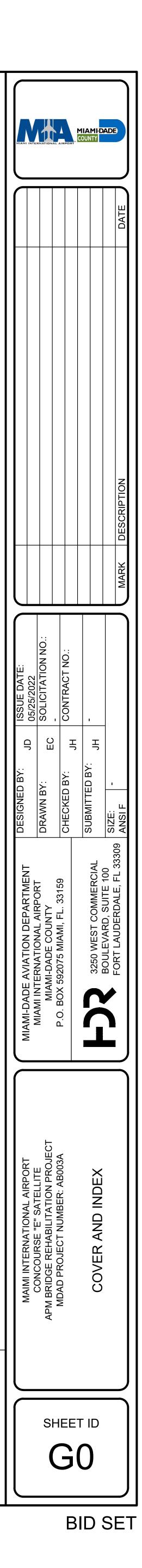
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**LOCATION MAP** 



	1.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN		ADEQUA <sup>-</sup> REMAIN
		ACCORDANCE WITH SPECIFICATIONS OUTLINED IN FEDERAL AVIATION ADMINISTRATION (FAA) IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATIONAL SIGNING REMOVED DURING CONSTRUCTION PERIOD.		SHALL B AREA. A ALLOWEI PROPER
	2.	CONTRACTOR TO RESTORE TO ITS ORIGINAL CONDITION AT NO EXTRA COST THE SERVICE ROAD(S) USED FOR ACCESS UPON COMPLETION.	20.	THE CON AND DE
	3.	CONTRACTOR TO ENSURE THROUGH DOCUMENTATION, EXHIBITS AND SIGNAGE THAT DIRECT EMPLOYED AND CONTRACTED PERSONNEL AND VEHICLE		ADMINIS ADVERSI
		OPERATOR ARE AWARE OF CONSTRUCTION SITE LIMITS AND TO STAY AWAY FROM ADJACENT AIRCRAFT OPERATING PAVEMENTS ON RUNWAYS AND		SHALL BE
	4.	TAXIWAYS. THE AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS		SHALL H
		PROJECT. COORDINATION OF WORK WITH MDAD IS MANDATORY SO AS TO MINIMIZE IMPACTS ON AIRPORT OPERATIONS. OPERATION OF THE AIRPORT IS		ANY AR ADDITIO
		OF THE UPPER MOST IMPORTANCE. WHEN THERE IS A CONFLICT BETWEEN OPERATION OF THE AIRPORT AND CONSTRUCTION, OPERATION OF THE		NO RUN
	5.	AIRPORT WILL HAVE PRIORITY. DURING THE CONSTRUCTION OF THIS PROJECT, BEARING REPLACEMENT AND		CLOSED "NOTICE TENANT
		JACKING WILL ONLY BE ALLOWED WITHOUT TRAIN LOADS. THE CONTRACTORS SHALL COORDINATE WITH THE AIRPORT ON THE SCHEDULE WITHOUT TRAIN RUNNING FOR JACKING AND BEARING REPLACEMENT ACTIVITIES.		CONSTR AT LEAS
	6.	THE CONTRACTORS SHALL ARRANGE THEIR WORK AND SHALL PLACE AND DISPOSE OF THE MATERIALS BEING USED SO AS NOT TO INTERFERE WITH THE	-	NO EXPL EQUIPMI
		OPERATIONS OF OTHER CONTRACTORS WORKING WITHIN THE PROJECT AREA. ALL CONTRACTORS SHALL COORDINATE THEIR WORK WITH THE OTHER	24.	MANNEF WIND CO
		CONTRACTORS IN AN ACCEPTABLE MANNER AND SHALL PERFORM THE WORK IN PROPER SEQUENCE.	25.	ALL MA
	7.	THE CONTRACTORS SHALL GIVE CONSTANT ATTENTION TO THE WORK TO FACILITATE THE PROGRESS THEREOF, AND THEY SHALL COOPERATE WITH THE		AIRCRAI
		MDAD CONSTRUCTION ADMINISTRATOR, AIRPORT PERSONNEL AND WITH OTHER CONTRACTORS IN EVERY WAY POSSIBLE.	26	PAVEME ALL UNS
	8.	EACH CONTRACTOR INVOLVED SHALL ASSUME ALL LIABILITY, FINANCIAL OR OTHERWISE, IN CONNECTION WITH THEIR CONTRACT AND SHALL PROTECT AND	20.	OFF AIF
		SAVE HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL DAMAGES OR CLAIMS THAT MAY ARISE BECAUSE OF INCONVENIENCES, DELAYS, OR LOSS	27.	THE COI
		EXPERIENCED BY THEM BECAUSE OF THE PRESENCE AND OPERATIONS OF OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF THIS PROJECT.	28.	CONTRA
	9.	MDAD RESERVES THE RIGHT TO REQUEST SUBMISSION BY THE CONTRACTOR IN WRITING OF THE QUALIFICATIONS AND EXPERIENCE OF THE PERSON		ACCORE
		IDENTIFIED BY THE CONTRACTOR AS THEIR SUPERINTENDENT OR PERSON IN RESPONSIBLE CHARGE OF THE WORK. MDAD FURTHER RESERVES THE RIGHT		BY AIRP
		TO DEMAND THE IMMEDIATE REPLACEMENT OF ANY CONTRACTOR'S SUPERINTENDENT DEEMED NOT TO HAVE ADEQUATE QUALIFICATIONS AND/OR	29.	DEBRIS, OF CAU
	10	EXPERIENCE TO SUCCESSFULLY RUN THIS PROJECT IN A MANNER ACCEPTABLE TO MDAD.		INGESTE ACTIVE
	10.	PERMITS: THE CONTRACTOR MUST OBTAIN APPROPRIATE PERMITS FROM THE PROPER GOVERNMENT AGENCIES FOR ACCESS TO, AND TO USE THEIR ROAD FOR DELIVERY OF MATERIALS AND EQUIPMENT TO THE SITE. ANY DAMAGE TO	30.	THESE A
		OFF-SITE OR ON-SITE ROADS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.		PERSON 24 HOUI
	11.	COORDINATION: THE FAA MAY BE WORKING IN / NEAR THE PROJECT AREA DURING CONSTRUCTION. CONTRACTOR SHALL COOPERATE AND NOT	31.	PENETF SURFAC
	12.	INTERFERE WITH THE FAA OR THEIR CONTRACTORS. MOBILIZATION/STAGING AREA: AREAS WILL BE MADE AVAILABLE FOR		IS NOT
		CONTRACTOR'S MOBILIZATION AND STORAGE AS SHOWN ON SHEET G2. THE BEFORE AND AFTER CONDITION OF THIS AREA SHALL BE JOINTLY INSPECTED		FACILIT EMPLOY OPERAT
		BY THE CONTRACTOR AND MDAD CONSTRUCTION ADMINISTRATION REPRESENTATIVE. THE STAGING AREAS SHALL BE RESTORED TO THEIR		
		ORIGINAL CONDITIONS, UPON COMPLETION OF THE PROJECT. MDAD SHALL DOCUMENT THE AREAS PRIOR TO USE BY THE CONTRACTOR TO RECORD THE	32.	ANY SI
		PRECONSTRUCTION CONDITION. RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. EMPLOYEE PARKING SHALL BE PERMITTED IN THE DESIGNATED PARKING AREA ONLY.		HAZARD
	13.	VEHICLES: NO PRIVATE VEHICLES ARE ALLOWED ON ANY MDAD AIRPORT	33.	CONTRA (CSPP) EDITION
		OPERATIONS AREAS. ALL VEHICLES, EXCEPT FOR THOSE UNDER CONTINUOUS ESCORT AND CONSTRUCTION VEHICLES MUST DISPLAY A DECAL OR SIGN WITH THE AGENCY NAME AND/OR LOGO IN CONTRASTING COLORS, ON BOTH SIDES	34.	
		OF THE VEHICLE THAT IS READABLE AT A DISTANCE OF NO LESS THAN 250 FT. NOTE: CONSTRUCTION VEHICLES ARE DEFINED AS THOSE VEHICLES THAT ARE		(LATEST
	14.	NOT ELIGIBLE FOR REGISTRATION TO OPERATE ON PUBLIC ROADWAYS. SAFETY: THE CONTRACTOR SHALL CONDUCT HIS ACTIVITIES IN A SAFE MANNER		
		AS SPECIFIED ON THIS SHEET, AND IN ACCORDANCE WITH FEDERAL AVIATION ADMINISTRATION (FAA) ADVISORY CIRCULAR 150/5370 (LATEST EDITION),		
	15.	"OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION." CONSTRUCTION LIMITS: ALL CONTRACTOR VEHICLES AND TRAFFIC (UNLESS		
		OTHERWISE AUTHORIZED) SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES.		
	16.	THE CONTRACTOR SHALL ACQUAINT ALL OF HIS EMPLOYEES WITH THE AIRPORT ACTIVITY AND OPERATIONS THAT ARE INHERENT TO THE AIRPORT		
		AND SHALL CONDUCT HIS CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND GUIDELINES FOR SAFETY.		
	17.	IF THE PROJECT INCLUDES WORK WITHIN ANY RESTRICTED AREA, ALL CONTRACTOR VEHICLES NOT DESIGNATED FOR USE ON PUBLIC ROADS (I.E.		
		HEAVY EARTHMOVING EQUIPMENT, ETC.) SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3' X 3' OR LARGER, ORANGE AND WHITE CHECKERBOARD FLAG,		
		WITH EACH CHECKERBOARD COLOR BEING 1' SQUARE. UNLESS OPERATING IN THE DESIGNATED VEHICLE DRIVING LANES, ANY VEHICLE OPERATING IN THE		
		RESTRICTED AREAS OF THE AIRPORT, TO INCLUDE THOSE UNDER ESCORT, SHALL BE EQUIPPED WITH, AND UTILIZE A FLASHING AMBER (YELLOW)		
		DOME-TYPE OR 4-WAY HAZARD FLASHER TYPE LIGHTS. THE DOME-TYPE LIGHTS MUST BE MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO		
		CONFORM TO LOCAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES. VEHICLES OPERATING WITHIN THE RESTRICTED AREAS SHALL BE MARKED WITH		
	10	A SIGN ON BOTH SIDES OF THE VEHICLE IDENTIFYING THE CONTRACTOR'S NAME.		
	18.	MATERIAL AND EQUIPMENT STORAGE SHALL BE LOCATED AS SHOWN ON SHEET G2. THE CONTRACTOR SHALL ADVISE ALL MATERIAL SUPPLIERS OF THE DELIVERY ROUTES TO BE USED FOR THE DELIVERY OF EQUIPMENT, MATERIALS,		
		OR SUPPLIES. THE CONTRACTOR SHALL ALSO ADVISE THE SUPPLIERS THAT THERE WILL BE SET DELIVERY HOURS AND THEY WILL NOT BE ACCEPTED AT		
		ANY OTHER TIME. DELIVERY HOURS WILL BE FROM 8:00 A.M. TO 4:00 P.M. WEEKDAYS, UNLESS PRIOR ARRANGEMENTS WITH AIRPORT PERSONNEL ARE		
		MADE 48 HOURS IN ADVANCE. ANY DELIVERIES NOT MADE DURING THESE HOURS STATED WILL BE TURNED AWAY BY AIRPORT PERSONNEL. A		
		REPRESENTATIVE OF THE CONTRACTOR MUST BE PRESENT FOR DELIVERY OF MATERIALS. MATERIALS AND EQUIPMENT NOT USED SHALL BE STORED OR		
		PARKED IN AREAS DESIGNATED BY THE MDAD CONSTRUCTION ADMINISTRATION REPRESENTATIVE AND OUTSIDE OF THE RIGHT-OF-WAY AND		
		TAXIWAY OBJECT FREE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTRICTING HIS/HER EQUIPMENT AND PERSONNEL TO THE IMMEDIATE		
		VICINITY OF CONSTRUCTION AND TO AUTHORIZED AREAS, AND SHALL TAKE SUCH PRECAUTIONS, AT HIS OWN EXPENSE, WHICH IS NECESSARY TO ASSURE COMPLIANCE WITH THESE REQUIREMENTS.		
	19.	WHERE PROJECT ACCESS REQUIRES TRAVEL ON OR ACROSS RUNWAYS, RAMP		
1		AREAS, TAXIWAYS, OR AIRCRAFT APRONS, THE CONTRACTOR SHALL PROVIDE		

QUATE PERSONNEL AND EQUIPMENT TO MAINTAIN SUCH SURFACES TO AIN CLEAR OF DEBRIS. AT A MINIMUM, A VACUUM TYPE POWER BROOM L BE PRESENT AT EACH ACTIVE AIRFIELD CROSSING OF A MOVEMENT . AT NO TIME SHALL THE CONTRACTOR'S VEHICLES OR PERSONNEL BE WED TO ENTER OR CROSS ACTIVE RUNWAYS AND TAXIWAYS WITHOUT PER AUTHORIZATION AND ESCORT BY AUTHORIZED PERSONNEL.

CONTRACTOR SHALL MAINTAIN HIS WORK AREAS FREE FROM DUST, DIRT DEBRIS THAT IN THE OPINION OF THE MDAD CONSTRUCTION NISTRATION REPRESENTATIVE AND AIRPORT PERSONNEL WILL ERSELY AFFECT AIRPORT OPERATIONS. A VACUUM TYPE POWER BROOM L BE ON SITE AT ALL TIMES.

AIRCRAFT TRAFFIC ON RUNWAYS, RAMP AREAS, TAXIWAYS AND APRONS L HAVE PRIORITY OVER CONTRACTOR'S VEHICLE TRAFFIC. THE AIRPORT RVES THE RIGHT TO ORDER THE CONTRACTOR AT ANY TIME TO VACATE AREA NECESSARY TO MAINTAIN SAFE AIRCRAFT OPERATIONS. NO TIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR SUCH RRUPTIONS TO THE ACTIVITIES.

UNWAY, TAXIWAY, RAMP AREA, APRON OR AIRPORT ROADWAY SHALL BE SED WITHOUT APPROVAL OF THE AUTHORITY TO ENABLE NECESSARY ICE TO AIRMEN" (NOTAM) OR ADVISORIES TO AIRPORT SERVICE OR NTS. REQUESTED CLOSINGS SHALL BE DIRECTED TO THE MDAD STRUCTION ADMINISTRATION REPRESENTATIVE OR AIRPORT PERSONNEL EAST 72 HOURS IN ADVANCE.

XPLOSIVES OR BURNING OF DEBRIS WILL BE PERMITTED ON THE JOBSITE. PMENT AND STOCKPILED MATERIALS SHALL BE CONSTRAINED IN A NER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT JET BLAST OR CONDITIONS.

MATERIALS AND EQUIPMENT WHEN NOT IN USE SHALL BE PLACED IN ROVED AREAS WHERE THEY WILL NOT CONSTITUTE A HAZARD TO RAFT OPERATIONS AND NOT PENETRATE CLEARANCE SURFACES OR RUCT LINE OF SIGHT FROM THE CONTROL TOWER TO ACTIVE AIRFIELD MENTS.

JNSTABLE MATERIAL AND CONSTRUCTION DEBRIS SHALL BE DISPOSED OF AIRPORT PROPERTY UNLESS DIRECTED OTHERWISE BY THE MDAD STRUCTION ADMINISTRATION REPRESENTATIVE OR AIRPORT PERSONNEL. CONTRACTOR SHALL KEEP A LIST OF EQUIPMENT MAXIMUM HEIGHTS FOR

N DETERMINING CLEARANCES TO AIRPORT IMAGINARY SURFACES. FRACTOR SHALL INSTALL AND MAINTAIN FOR THE DURATION OF THE ECT ALL "TRUCK ENTERING HIGHWAY" SIGNS. THE SIGNS MUST BE IN

DRDANCE WITH THE STATE OF FLORIDA MANUAL OF UNIFORM TRAFFIC TROL DEVICES AND WILL BE PLACED/INSTALLED WHERE AND AS DIRECTED RPORT PERSONNEL.

RIS, WASTE, AND LOOSE MATERIALS (INCLUDING DUST AND DIRT) CAPABLE AUSING DAMAGE TO AIRCRAFT LANDING GEARS. PROPELLERS OR BEING STED INTO JET ENGINES SHALL NOT BE ALLOWED ON OR ADJACENT TO VE AIRCRAFT MOVEMENT AREAS. MATERIALS OBSERVED TO BE WITHIN SE AREAS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR CONTRACTOR SHALL PROVIDE THE PHONE NUMBERS OF THREE SONNEL, INCLUDING THE PROJECT SUPERINTENDENT, WHO MAY BE IN CALL

DURS A DAY. ETRATION OF OBSTACLE FREE ZONE(S) (OFZ), RUNWAY APPROACH FACE(S), GLIDE SLOPE CRITICAL AREA(S) AND LOCALIZER CRITICAL AREA(S) OT PERMITTED DURING ACTIVE OPERATION OF THESE AREAS AND LITIES. THE CONTRACTOR SHALL BE AWARE OF THE STATUS OF EACH LITY DURING THE VARIOUS PHASES OF THE WORK AND SHALL KEEP OYEES, EQUIPMENT AND MATERIALS OUT OF ACTIVE FACILITY RATIONS.

SITUATION THAT, IN THE OPINION OF THE MDAD CONSTRUCTION NISTRATION REPRESENTATIVE OR AIRPORT PERSONNEL, CONSTITUTES A ARD TO OPERATIONS OF THE AIRPORT WILL IMMEDIATELY CAUSE WORK ACTIVITY TO CEASE UNTIL THE SITUATION IS RECTIFIED.

TRACTOR SHALL SUBMIT A CONSTRUCTION SAFETY AND PHASING PLAN P) FOR APPROVAL IN COMPLIANCE WITH FAA AC 150/5370-2 (LATEST

TRACTOR SHALL SUBMIT A CONTRACTOR'S SAFETY PLAN COMPLIANCE JMENT (SPCD) FOR APPROVAL IN COMPLIANCE WITH FAA AC 150/5370-2 EST EDITION).

## FIRE PROTECTION NOTES:

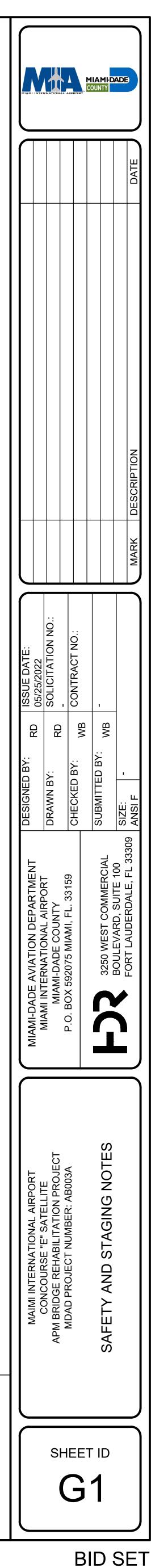
1. ALL FIRE PROTECTION REFERENCES NOTED BELOW ARE FROM THE FLORIDA

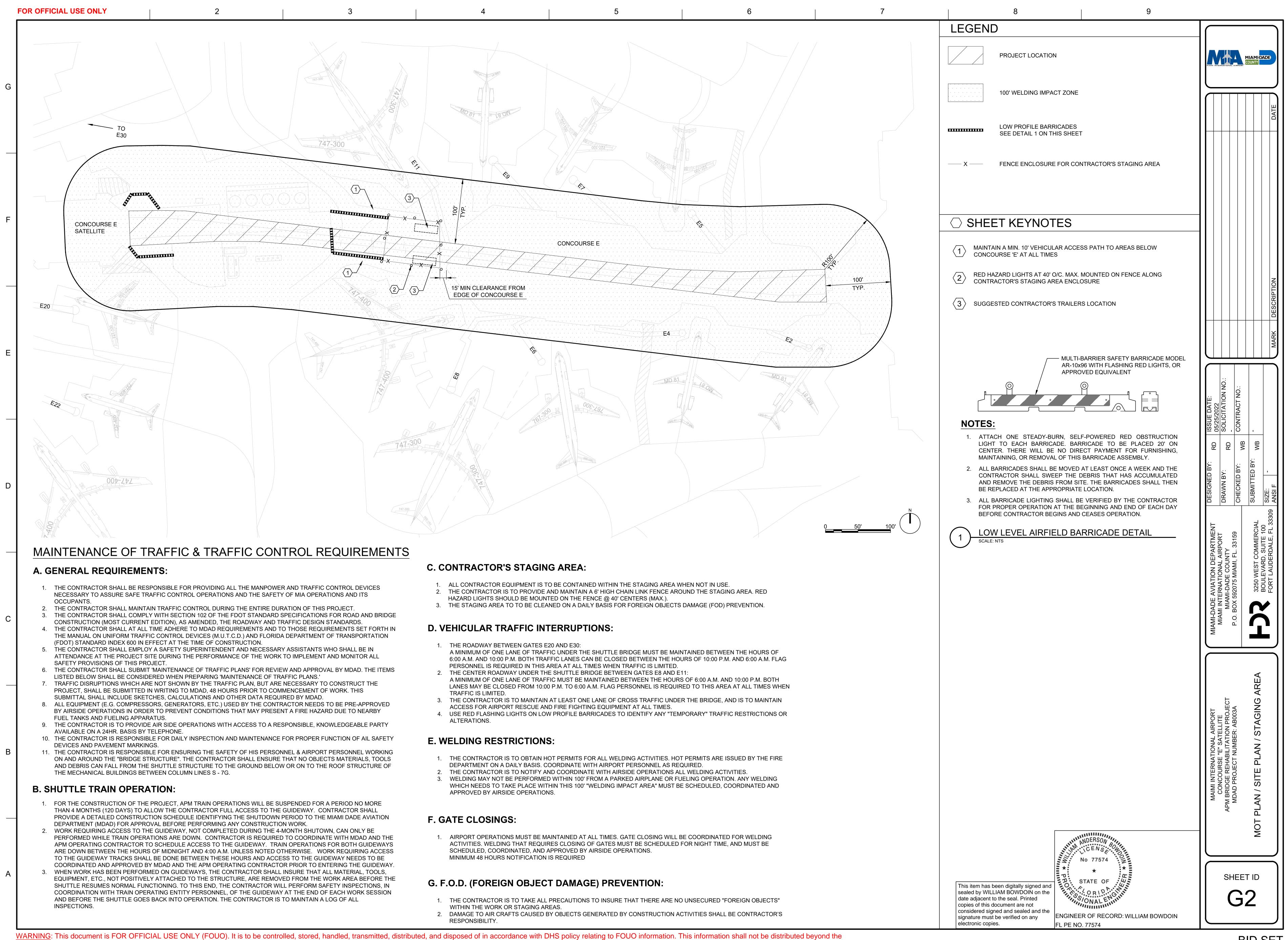
- FIRE PREVENTION CODE (2018 EDITION), NFPA, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PROVIDE LIFE SAFETY AND EMERGENCY ACTION PLANS TO THE MIAMI-DADE BUILDING DEPARTMENT FOR APPROVAL. REFER TO NFPA 101:4.6.10. CONSTRUCTION, REPAIR, AND IMPROVEMENT OPERATIONS. SECTION 4.8 EMERGENCY ACTION PLAN. NFPA 101 - CHAPTER 43: BUILDING REHABILITATION, LIFE SAFETY PLAN.
- 3. PROJECT IS CLASSIFIED AS A RENOVATION IN ACCORDANCE WITH NFPA 101 SECTION 43.2.2.1.2.
- 4. CONTRACTOR SHALL COMPLY WITH NFPA 1: CHAPTER 16: SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS; 16.3: FIRE PROTECTION; 16.4: SAFEGUARDING CONSTRUCTION AND ALTERATIONS OPERATIONS; SECTION 16.4.2 AND 16.4.2.1 TEMPORARY SEPARATION WALLS & UNOBSTRUCTED EGRESS; 16.4.3. FIRE PROTECTION DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH NFPA 1:5.3.3.8 FOR ANY DEMOLITION WORK 5. - SAFEGUARDS DURING BUILDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS; 16.5 - FIRE SAFETY DURING DEMOLITION; 12.7.4 -SMOKE BARRIER USED AS A FIRE BARRIER; AND NFPA 241 AND NFPA 51B: SAFEGUARDING CONSTRUCTION AND FIRE PREVENTION TOOLKIT
- CONTRACTOR SHALL COMPLY WITH THE FOLLOWING NFPA CODES FOR FIRE SAFETY DURING DEMOLITION: NFPA 1, 16.5 FIRE SAFETY DURING DEMOLITION; 16.2.2.4.1. TRASH CHUTE SAFETY PLAN; 16.2.2.4.1.1 FIRE WATCH; 16.3 FIRE PROTECTION.
- CONTRACTOR SHALL PROVIDE PLANS INDICATING ALL MEANS OF EGRESS FROM 7. EACH WORK AREA TO A PUBLIC WAY (PARKING LOT, OR ENCLOSED STAIR)TO THE MIAMI-DADE BUILDING DEPARTMENT FOR APPROVAL. SHOW ALL SURFACES AND PROVIDE DETAILS OF ALL CHANGES OF ELEVATION.
- 8. QUESTIONS, CONTACT MDFR-ALSB@MIAMIDADE.GOV



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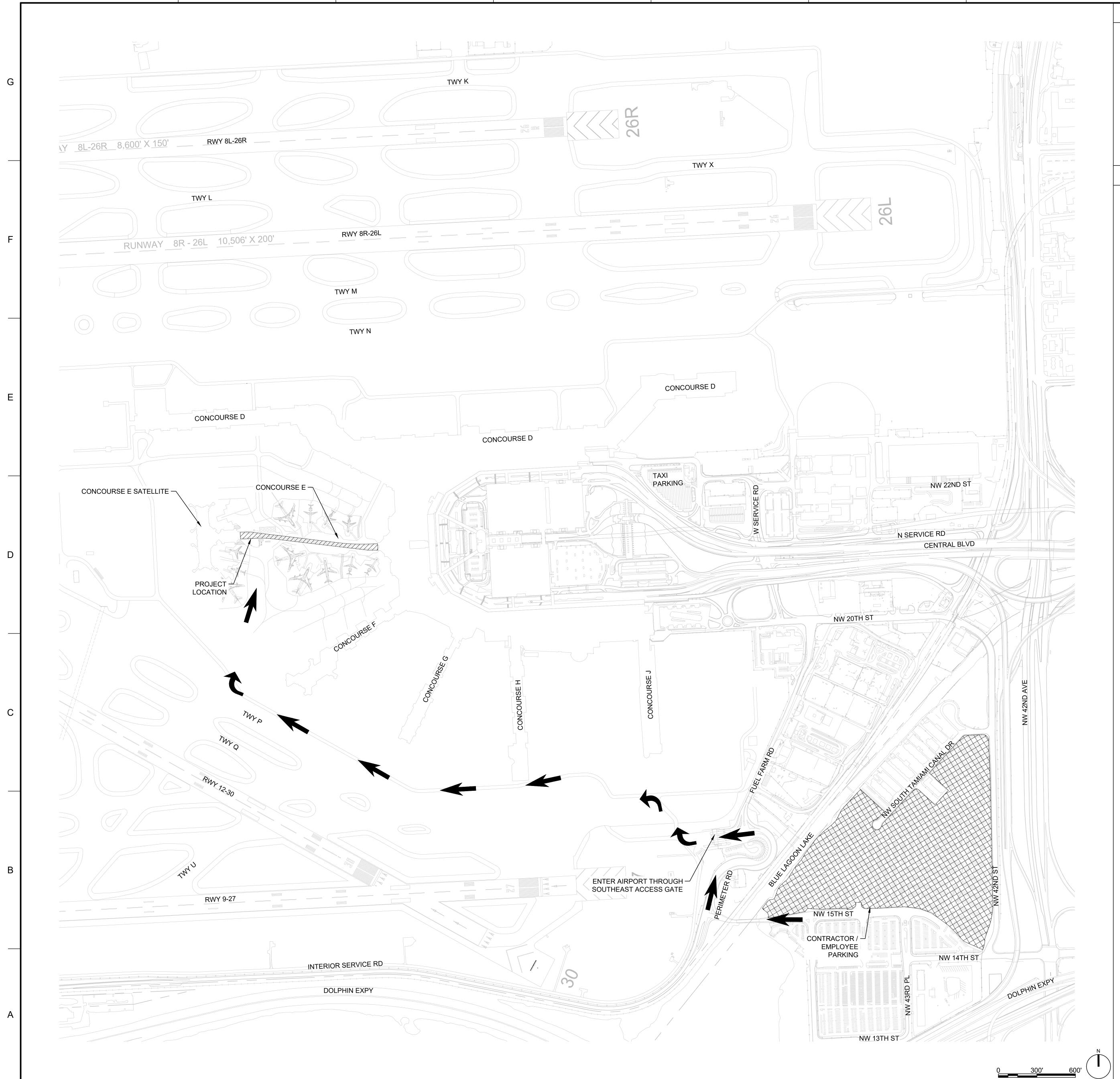
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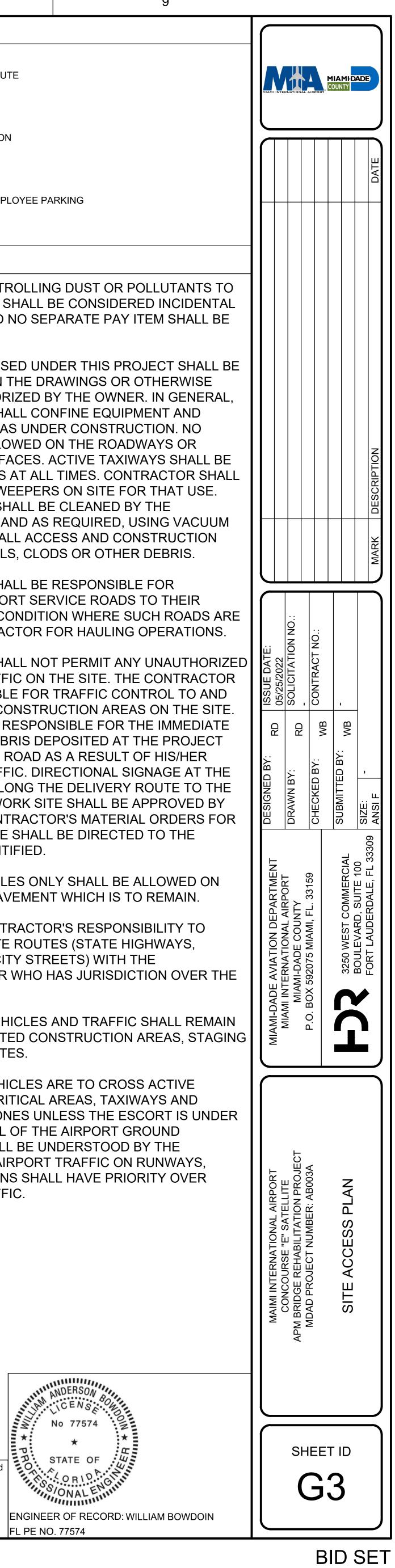




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LE	EGEND		
	HAUL/ACCESS ROUT	Ē	
	PROJECT LOCATION		
	CONTRACTOR/EMPL	OYEE PARKING	
G	ENERAL NOTES		
1.	THE AIR OF ANY KIND S	ROLLING DUST OR POLLUTAN HALL BE CONSIDERED INCIE NO SEPARATE PAY ITEM SHA	DEN
2.	THOSE INDICATED ON T SPECIFICALLY AUTHOR THE CONTRACTOR SHA HAULING TO THE AREAS DEBRIS SHALL BE ALLO AIRPORT PAVED SURFA KEPT FREE OF DEBRIS MAINTAIN VACUUM SWE OTHER PAVEMENTS SH CONTRACTOR DAILY, AI SWEEPERS TO KEEP AL	ED UNDER THIS PROJECT SH THE DRAWINGS OR OTHERW IZED BY THE OWNER. IN GEN ALL CONFINE EQUIPMENT AN S UNDER CONSTRUCTION. N WED ON THE ROADWAYS ON ACES. ACTIVE TAXIWAYS SH ACES. ACTIVE TAXIWAYS SH AT ALL TIMES. CONTRACTOR EEPERS ON SITE FOR THAT I ALL BE CLEANED BY THE ND AS REQUIRED, USING VA L ACCESS AND CONSTRUCT S, CLODS OR OTHER DEBRIS	/ISE NER ID IO R ALL R SH USE
3.	RESTORING ALL AIRPOR PRECONSTRUCTION CC	LL BE RESPONSIBLE FOR RT SERVICE ROADS TO THE ONDITION WHERE SUCH ROA CTOR FOR HAULING OPERAT	<b>\DS</b>
4.	PERSONNEL OR TRAFFI SHALL BE RESPONSIBLE FROM THE VARIOUS CO THE CONTRACTOR IS R CLEAN-UP OF ANY DEBE SITE AND ALONG ANY R CONSTRUCTION TRAFF ACCESS GATE AND ALC STORAGE AREA OR WO THE OWNER. ALL CONT	ALL NOT PERMIT ANY UNAUT IC ON THE SITE. THE CONTR E FOR TRAFFIC CONTROL TO INSTRUCTION AREAS ON TH ESPONSIBLE FOR THE IMME RIS DEPOSITED AT THE PRO ROAD AS A RESULT OF HIS/H IC. DIRECTIONAL SIGNAGE A ONG THE DELIVERY ROUTE T ING THE DELIVERY ROUTE T ING SITE SHALL BE APPROVE RACTOR'S MATERIAL ORDER SHALL BE DIRECTED TO THE IFIED.	ACT O AN IE SI EDIA JEC ER AT T FO T ED E RS F
5.		ES ONLY SHALL BE ALLOWEI EMENT WHICH IS TO REMAII	
6.	COORDINATE OFF-SITE COUNTY ROADS OR CIT	RACTOR'S RESPONSIBILITY ROUTES (STATE HIGHWAYS Y STREETS) WITH THE WHO HAS JURISDICTION OV	З,
7.		ICLES AND TRAFFIC SHALL F ED CONSTRUCTION AREAS, S ES.	
8.	RUNWAYS, NAVAID CRIT APPROACH CLEAR ZON THE DIRECT CONTROL CONTROLLER. IT SHALL CONTRACTOR THAT AIF	CLES ARE TO CROSS ACTIVE TICAL AREAS, TAXIWAYS AN IES UNLESS THE ESCORT IS OF THE AIRPORT GROUND . BE UNDERSTOOD BY THE RPORT TRAFFIC ON RUNWAY S SHALL HAVE PRIORITY OV IC.	D UNI YS,
	[	ANDERSON	

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GENERAL STRUCTUR	AL NOTES			
TECHNICAL SPECIFICATIONS, MARCH			OPERATIONS SERVED BY CONFLICTING BUILDING AREA TO GAIN ACCESS TO E COLUMNS, DIAPHRAGMS, STRUCTURAL	RIDGE AND BUILDING STRUCTUR
PERFORMED ON OR NEAR THE AUT		AMI INTERNATIONAL AIRPORT.	EXPENSE. IT IS THE CONTRACTOR'S RE TO COVER ANY AND ALL WORK DESCR 16. DURING CONSTRUCTION, THE CONTRAC JOINTS ETC.), UTILITIES, RUNNING SURF	SPONSIBILITY TO ALLOCATE SUB IBED ABOVE. TOR SHALL NOT DAMAGE ANY B
CONCRETE DECK AND SUBSTRUCTU EXPANSION JOINT REPAIR. JACKING GAIN ACCESS TO EXISTING STRUCTU JOINTS, CONCRETE OR STEEL COMP	ILITATION INCLUDES REPLACING BEARINGS RE SPALL AND DELAMINATION REPAIRS, OF THE STRUCTURES FOR BEARING REP URES ARE INCLUDED IN THE SCOPE. ADJ PONENTS ON THE EXISTING BRIDGE OR BU ION WORK ARE INCLUDED IN THE SCOPE.	CONCRETE DECK CRACK REPAIR, AND LACEMENT AND RELATED WORK TO USTMENT, REPAIR, OR REPLACEMENT OF JILDING STRUCTURES IN ORDER TO	MOVER (APM) HARDWARE SURROUNDIN ATTACHMENTS OR STRUCTURES SHALL OPERATING CONTRACTOR, OR MIAMI DA 17. ALL WORK RELATED TO UTILITIES (PIPE	G OR ATTACHED TO THE BRIDG BE REPAIRED BY THE CONTRA DE AVIATION DEPARTMENT (MD S, CONDUITS, GLYCOL CHILLING
PAINTING OF THE EXISTING STEEL S 3. THE DRAWINGS ARE INTENDED TO S	STRUCTURE IS NOT PART OF THE SCOPE Show the general arrangement, desi are not intended to be scaled for f	GN AND EXTENT OF THE WORK AND	STRUCTURES SHALL BE COORDINATED CONTRACTOR (LEITNER-POMA) DURING UTILITIES ARE TO BE PERFORMED BY ( 18. ALL WORK RELATED TO THE APM RUN HARDWARE ALONG THE BRIDGE STRUCT	THE PRE-BID MEETING. WORK OTHERS AND THE COSTS ARE N NING SURFACE EXPANSION JOIN
4. ALL DETAILS AND SECTIONS SHOWN TO APPLY TO ANY SIMILAR SITUATI SHOWN.	N ON THE DRAWINGS ARE INTENDED TO E ION ELSEWHERE ON THE PROJECT, EXCEP NTRACTORS SHALL PERFORM A SURVEY	T WHERE A DIFFERENT DETAIL IS	(LEITNER-POMA) DURING THE PRE-BID (RUNNING SURFACE), RELEASING THE F PERFORMED BY OTHERS AND THE COS	MEETING. WORK FOR DISSEMBL PULLING CABLE, OR REMOVAL C TS ARE NOT TO BE INCLUDED I
SUBSTRUCTURE AND IDENTIFY ALL DURATION AND PERFORMED IN THE BRIDGE CONDITIONS AND DIMENSION ANY ERRORS OR INCONSISTENCIES AND SUBCONTRACTORS SHALL LAY	LOCATIONS IN NEED OF REPAIR. THE SU PRESENCE OF THE ENGINEER PRIOR TO NS AT THE JOB SITE AND AS SHOWN ON IN THE ABOVE TO THE ENGINEER BEFOR OUT THEIR WORK FROM ESTABLISHED RI	RVEY SHALL BE INCLUDED IN CONTRACT COMMENCING ANY WORK. VERIFY ALL THE DRAWINGS. THEY SHALL REPORT E COMMENCING WORK.THE CONTRACTOR EFERENCE POINTS AND BE RESPONSIBLE	<ol> <li>CONTRACTOR'S WORK SCHEDULE SHALL AND THE APM OPERATING CONTRACTO ATTACHED ALONG THE BRIDGE STRUCT</li> <li>CONTRACTOR SHALL SUBMIT A SIGNED</li> <li>CONTRACTOR SHALL SUBMIT A SIGNED</li> </ol>	R TO REMOVE OR RELOCATE TH URE. AND SEALED SPECIAL INSPECT
FOR ALL LINES, ELEVATIONS AND M 6. PROTECTION: A. THE CONTRACTOR IS RESPONSIE BUILDING CODE AND ALL LOCAL	MEASUREMENTS IN CONNECTION WITH THE BLE AND SHALL COMPLY WITH THE REQU ., STATE AND FEDERAL LAWS. THE ENGI CEDURES ON THIS PROJECT. THIS IS TH	IR WORK. REMENTS OF THE SOUTH FLORIDA NEER AND HIS EMPLOYEES ARE NOT	(M-D CODE, SECTION 8-22) AND STI 21. CONTRACTOR SHALL PROVIDE AS-BUIL WITH THE NEW AND MODIFIED REPAIR DURING THE REPAIR PROCESS.	EEL CONNECTIONS. T DRAWINGS AS REVISION TO P
<ul> <li>B. PROVIDE ALL SHORING, BRACING REMOVE FROM SITE WHEN THE</li> <li>C. PROVIDE AND MAINTAIN GUARD OR SIDEWALKS AND ALL TRENCH</li> <li>D. AT ALL TIMES PROVIDE PROTECTALL WORK, MATERIALS, APPARA</li> <li>E. THE CONTRACTOR SHALL PAY F</li> </ul>	G AND SHEETING AS REQUIRED FOR THE	PROPER EXECUTION OF THE WORK. OBSTRUCTIONS IN THE STREETS, ROADS (S OR ROADS. ORMS OR HEAT) SO AS TO MAINTAIN	22. SHOP DRAWINGS SHALL BE SUBMITTED SUPPORTS. CALCULATIONS SHALL BE P SUPPORTS / JACKING FRAMES IN THE OF POST-TENSIONING BARS IN THE PIE	ROVIDED FOR THE DESIGNS OF SHOP DRAWINGS. SUBMIT SHOP R CAP. SUBMIT SHOP DRAWING
<ul> <li>F. AT THE END OF THE DAYS WOR FAILURE TO PROVIDE PROTECTION EXPENSE.</li> <li>7. CONTRACTOR AGREES THAT HE WIL HARMLESS FROM ANY AND ALL DATE</li> </ul>	RK, COVER ALL WORK LIKELY TO BE DAM ON SHALL BE REMOVED AND REPLACED N LL HOLD OWNER, ENGINEERS AND/OR AN MAGE AND CLAIMS WHICH MAY ARISE BY	WITH NEW WORK AT THE CONTRACTOR'S Y OF THEIR EMPLOYEES OR AGENTS Y REASON OF ANY NEGLIGENCE ON	REPLACEMENT, CONCRETE REPAIRS FOR BE SIGNED AND SEALED BY A PROFESS 23. SPAN JACKING: THE JACKING DETAILS SHALL OBTAIN A SPECIALTY ENGINEER	SIONAL ENGINEER IN FLORIDA. IN THESE PLANS ARE FOR BID TO DESIGN THE COMPLETE JAC
SUPPLIERS AND/OR ANY OF THEIR ANY ACTION IS BROUGHT THEREFOR CONTRACTOR SHALL ASSUME FULL PROPER NOTICE, OWNER, ENGINEERS	S SUBCONTRACTORS AND/OR SUBCONTRA EMPLOYEES OR AGENTS, IN PERFORMAN RE AGAINST OWNER, ENGINEERS AND/OR RESPONSIBILITY FOR DEFENSE THEREOF, S AND/OR ANY OF THEIR EMPLOYEES OF E ALL COSTS THEREOF TO CONTRACTOR.	CE OF THIS CONTRACT AND, IN CASE ANY OF THEIR EMPLOYEES OR AGENTS, AND UPON HIS FAILURE TO DO SO ON R AGENTS RESERVE THE RIGHT TO	AND BE SUBMITTED THROUGH SIGNED / AND MDAD. STRUCTURAL DESIGN	
0 8. IF ANY ERRORS OR OMISSIONS APP CONTRACTOR SHALL NOTIFY THE EN WITH ANY WORK WHICH APPEARS IN	PEAR IN THE DRAWINGS, SPECIFICATIONS NGINEER IN WRITING OF SUCH OMISSIONS N QUESTION. IN THE EVENT OF THE CO ONSIBLE FOR THE RESULTS OF ANY SUCH	OR OTHER DOCUMENTS THE OR ERRORS PRIOR TO PROCEEDING NTRACTOR'S FAILING TO GIVE SUCH	1. DESIGN SPECIFICATIONS: MIA DESIGN GUIDELINE MANUAL, N	ARCH 2018 EDITION. E HIGHWAY AND TRANSPORTATIO
DRAWINGS TO LOCATE STRUCTURAL POTENTIAL CONFLICTS SHALL BE TF	STRUCTURAL DRAWINGS TOGETHER WITH OR NON-STRUCTURAL COMPONENTS, SU RANSMITTED TO THE ENGINEER BEFORE F	JCH AS DIMENSIONS, IN THE PROJECT. ROCEEDING WITH THE WORK.	<ol> <li>DESIGN METHOD: LOAD AND RESIST SERVICE AND FATIGUE LIMIT STATE</li> <li>STRUCTURAL IMPROVEMENTS SHOW</li> </ol>	ANCE FACTOR DESIGN METHOD
CONSTRUCTION WORK. 11. NO SHOP DRAWINGS SHALL BE SUE NOTED FOR CONSTRUCTION METHOD	NEER REVIEW AND APPROVAL BEFORE ST BMITTED FOR ENGINEER REVIEW UNTIL AF D, DIMENSIONING AND OTHER TRADE REQ APPROVAL SEAL. ENGINEER ASSUMES	TER THEY HAVE BEEN REVIEWED AND JIREMENTS BY THE CONTRACTOR AND	CRITERIA: WALKWAY LIVE LOAD TRAIN PASSENGER LOAD TRAIN VELOCITY	
QUANTITIES, ERRORS OR OMISSIONS ERRORS OR OMISSIONS MUST BE M OF DRAWINGS BY ENGINEER AND EX 12. VERIFICATION OF EXISTING CONDITIC	S AS A RESULT OF CHECKING AND REVI MADE GOOD BY CONTRACTOR, IRRESPECTI VEN THOUGH WORK IS DONE IN ACCORDA	EWING ANY SHOP DRAWINGS. ANY VE OF RECEIPT, CHECKING OR REVIEW ANCE WITH SUCH DRAWINGS. ABILITATION OF AN EXISTING	<ol> <li>UNLESS NOTED ON PLANS, ALL ST</li> <li>HIGH STRENGTH BOLTS (ASTM F31 OTHERWISE SPECIFIED. PROVIDE N</li> </ol>	25, GRADE A325 TYPE 1) TO E
SOME OF THESE ASSUMPTIONS MAY INAPPROPRIATE AND/OR UNJUSTIFIA PORTIONS OF THE BUILDING, EXPOS OPERATIONS. THEREFORE, THE ENG	IN ASSUMPTIONS BE MADE REGARDING E Y NOT BE VERIFIABLE WITHOUT EXPENDIN ABLE SUMS OF MONEY, OR DESTROYING SING THE BUILDING INTERIOR TO THE ELE SINEER HEREIN MAKES IT CLEAR THAT NO CULATED ASSUMPTIONS, IS NOT AN ACT	G ADDITIONAL AND POSSIBLE OTHERWISE ADEQUATE OR SERVICEABLE MENTS, AND/OR DISRUPTING AIRPORT T HAVING VERIFIED CERTAIN	<ol> <li>ANCHOR BOLTS: ANCHOR BOLTS S ANCHOR BOLTS, NUTS AND WASHE SPECIFICATIONS.</li> <li>ALL WELDING TO BE IN ACCORDAN (AND) (1999) (1999)</li> </ol>	ERS SHALL BE HOT-DIP GALVAN
AN ATTEMPT TO TRANSFER RESPON DESCRIBING THE EXISTING CONDITIO CONTRACTOR TO PRICE HIS WORK I THE COST OF DEALING WITH SAME SUCH CASE(S), THE ENGINEER REM APPROPRIATE (AT THE SOLE DISCR	NSIBILITY TO THE CONTRACTOR. IT IS, IN NSIBILITY TO THE CONTRACTOR. IT IS, IN IN SUCH A MANNER AS TO ASSUME POS WITHOUT ADDITIONAL COST TO OWNER, N MAINS AVAILABLE TO WORK OUT ALTERNA RETION OF THE ENGINEER), FOR AN ACCE ABOVE PROCEDURE IS OPINED TO BE A 1	NSTEAD, OUR BEST EFFORT AT THIS IS OUR NOTICE TO THE SIBLE IRREGULARITIES AND TO LOWER WHEN DIFFERENT TO THAT SHOWN. IN TES, IF DEEMED NECESSARY AND PTABLE ALTERNATE DETAIL OR OTHER	AND (AWS) "STRUCTURAL WELDING ELECTRODES, WELDING PROCESS, M ACCORDANCE WITH THE AWS SPEC BE REPLACED OR ACCEPTABLY RE SUBJECT TO RADIOGRAPHIC, MAGN INSPECTION CONDUCTED BY AN IN RUSTPROOF ALL FIELD WELDS WITH	MINIMUM PREHEAT AND INTERPA CIFICATIONS. ANY STRUCTURAL INFORCED. ALL FULL PENETRA ETIC PARTICLE, ULTRASONIC, A DEPENDENT TESTING AGENCY P
SITUATIONS TO MINIMIZE INCONSIST CLARIFICATIONS PRIOR TO BIDDING, PROJECT, AS POSSIBLE, GIVEN THE 13. WHERE CRITICAL DIMENSIONS CANNO	ENCIES IN BID AMOUNTS, ENCOURAGE CO AND AS AN ATTEMPT TO BE AS FAIR T	ONTRACTOR SITE VISITS AND O ALL CONTRACTORS BIDDING ON	8. ALL CONNECTIONS TO BE FIELD AI 9. Steel bearing on steel to be 10. Verification, and certification.	WELDED THERETO.
B CONSTRUCTION, OR WHERE ONE MA MEASUREMENTS AS REQUIRED TO C EXCEEDING 3% BETWEEN FIELD MEA PROCEEDING WITH THE WORK. THE	ATERIAL ADJOINS AN IN-PLACE MATERIAL COMPLETE SHOP DRAWINGS AND INSTALL ASURED DIMENSIONS AND SCALED DRAWIN CONTRACTOR SHALL BE RESPONSIBLE FO TH THE DIMENSIONS MEASURED IN THE FI	, CONTRACTOR SHALL TAKE FIELD ATION. REPORT ANY DISCREPANCIES IG DIMENSIONS TO ENGINEER BEFORE OR ANY COSTS OR DELAY IF CRITICAL	<ol> <li>10. VERIFICATION AND CERTIFICATION REGISTERED WELDING INSPECTOR E ALL WELDING REPORTS TO BE TRA SOON AS THEY ARE COMPLETED.</li> <li>11. DIMENSIONS: ALL DIMENSIONS IN THE</li> </ol>	MPLOYED BY THE CONTRACTOR NSMITTED TO THE SPECIAL INS
ENGINEER FOR DISCREPANCIES. THE HEIGHTS AND COMPONENT DIMENSION SUPPORTS, EXISTING CAP AND COL	E CRITICAL DIMENSIONS INCLUDE BUT ARE ONS AND LOCATIONS, LONGITUDINAL SLOP LUMN SIZES AND REINFORCING LOCATIONS THS, AND CONCRETE SPALLING AND CRA	E NOT LIMITED TO EXISTING BEARING PES OF THE GUIDEWAY STRUCTURES AT 5, EXPANSION JOINT OPENING	12. CONCRETE COVER: CONCRETE COVE PLACEMENT AND FABRICATION TOL ALLOWABLE TOLERANCES.	OTED. R DIMENSIONS SHOWN IN THE F
CRACKING OF SLABS, PIER CAPS A DEFORMATIONS AND DAMAGES IN B RESPONSIBLE TO REPORT ANY UNU	( OR BEARING REPLACEMENT, THE CONTR AND COLUMNS, POTENTIAL SETTLEMENT O BRIDGE SUPERSTRUCTURE AND ADJACENT JSUAL STRUCTURAL BEHAVIOR TO THE EN FALL REPAIR ANY DAMAGES TO THE EXIS	F THE PIERS, AND UNUSUAL STRUCTURES. THE CONTRACTOR IS NGINEER AND STOP WORKING	<ul> <li>13. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS: CONSTRUCTION INDICATED ON THE PLANS. ADDITIONS SHALL REQUIRE WRITTEN APPROVA</li> <li>14. CHAMFERS: PROVIDE 3/4" CHAMFINIA</li> </ul>	NAL JOINTS OR ALTERATIONS
AND MDAD. 15. PLANS, SECTIONS AND DETAILS DO SUPPORT A VARIETY OF COMPONEN	NOT SHOW ALL EXISTING CONDITIONS. T NTS AND SYSTEMS SUCH AS REFRIGERAN ICTURES, ETC. SOME OR ALL OF THESE	HE BRIDGE STRUCTURE IS USED TO T LINES, ELECTRICAL CONDUIT, CABLE	15. PREPARE STEEL SURFACES TO A ALUMINUM EPOXY MASTIC (GRAY O PRIOR TO INSTALLATION.	COLOR) ON ALL STEEL AREAS II
INTERFERE WITH THE WORK IN THIS PROTECT AND, WHERE IN CONFLICT	S CONTRACT. IT IS THE CONTRACTOR'S R WITH THE WORK, TO WORK WITH MDAD'S S WITHOUT ADVERSELY AFFECTING THEIR	ESPONSIBILITY TO LOCATE, IDENTIFY, S AUTHORITIES TO TEMPORARILY INTENDED PURPOSE NOR AIRPORT	16. DETECTABLE LEVELS OF HEAVY ME SUMMARY OF RESULTS IS PROVIDE AND REQUIREMENTS WHILE WORKIN ACCORDANCE WITH RENOVATION, F	D HERE. FOLLOW ALL LOCAL, S G ON STEEL STRUCTURE. WORK REPAIR, AND PAINTING (RRP) RU

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OPERATING CONTRACTOR, OR MIAMI DADE AVIATION DEPARTMENT (MDAD).

ATTACHMENTS OR STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE AIRPORT

STRUCTURES SHALL BE COORDINATED WITH THE AIRPORT UTILITY DEPARTMENT AND THE APM OPERATING

NDARD	

TRUCTURE AND 19. CONTRACTOR'S WORK SCHEDULE SHALL TAKE INTO ACCOUNT THE TIME REQUIRED BY MIA UTILITY DEPARTME ED IN CONTRACT . VERIFY ALL SHALL REPORT E CONTRACTOR 3E RESPONSIBLE 20. CONTRACTOR SHALL SUBMIT A SIGNED AND SEALED SPECIAL INSPECTOR FORM FOR CONCRETE REPAIR

TREETS, ROADS 22. SHOP DRAWINGS SHALL BE SUBMITTED FOR STRUCTURAL STEEL, REPLACEMENT BEARINGS, AND TEMPORARY

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.

7	8	

CONDITION

INTACT

INTACT

INTACT

INTACT

\* BELOW REPORTING LIMITS (BRL) - INDICATES THE ANALYTE WAS

LEAD

140

150

49,000

410

CADMIUM CHROMIUM ARSENIC

120

140

160

860

BRL

BRL

4.4

BRL

(mg/kg) | (mg/kg) | (mg/kg) | (mg/kg)

1.9

BRL

BRL

1.3

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,
ANTENNA DURANA ATRUATURAL ATEFUA JANTA AND DEADNAA AUAL DE DEDLAAER AT AANTENATAR'A

COLUMNS, DIAP	HRAGM	S, STRUC	TURAL	STEELS	S, JOIN <sup>-</sup>	rs, a	ND B	BEARIN	NGS SH	HALL	BE REPLA	ACED	AT CO	NTRA	CTOR	'S
EXPENSE. IT IS	THE C	ONTRACTO	R'S R	ESPONS	BILITY	TO A	ALLOC	CATE	SUFFIC	CIENT	FUNDING	AND	TIME I	N HIS	5 BID	PRICE
TO COVER ANY	AND A	ALL WORK	DESC	RIBED A	BOVE.											

SAMPLE NO.

001

002

003

004

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 A	VIATION DEPARTMEN	NT (MDAD).	
17.	ALL WORK RELATED TO U	JTILITIES (PIPES, CO	ONDUITS, GLYCOL CI	HILLING PIPES, ETC.)	ATTACHED TO THE BRIDGE

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 JOINT (RUNNING SURFACE), RELEASING THE PULLING CABLE, OR REMOVAL OF OTHER APM HARDWARE ARE TO BE

COLOR

LIGHT GRAY

LIGHT GRAY

LIGHT GRAY

LIGHT GRAY

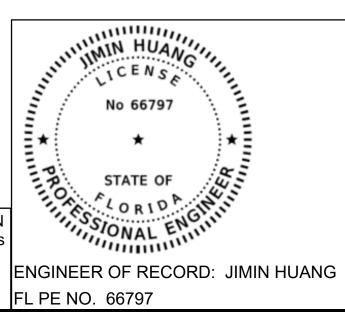
NOT DETECTED AT THE REPORTING LIMIT.

)	(LEITNER-POMA) DURING THE BRIDGE STRUCTORE SHALL BE COORDINATED WITH THE APM OPERATING CONTRACTOR (REITNER-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.	TECHNICAL SPECIAL PROVISION
) `T	19. CONTRACTOR'S WORK SCHEDULE SHALL TAKE INTO ACCOUNT THE TIME REQUIRED BY MIA UTILITY DEPARTMENT	THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2023-24 EDITION) APPLY TO THE PROJECT WHENEVER APPLICABLE. SEE BELOW FOR SELECTED SECTIONS.
2	AND THE APM OPERATING CONTRACTOR TO REMOVE OR RELOCATE THE NECESSARY UTILITY OR APM HARDWARE ATTACHED ALONG THE BRIDGE STRUCTURE.	THE REFERENCED FDOT SPECIFICATIONS CAN BE DOWNLOADED FROM FDOT WEBSITE: https://www.fdot.gov/programmanagement/implemented/specbooks/ (FDOT SP)
E	20. CONTRACTOR SHALL SUBMIT A SIGNED AND SEALED SPECIAL INSPECTOR FORM FOR CONCRETE REPAIR (M-D CODE, SECTION 8-22) AND STEEL CONNECTIONS.	SECTION 5: CONTROL OF THE WORK
	(M D CODE, SECTION C 22) AND STELE CONNECTIONS.	SECTION 6: CONTROL OF MATERIALS
	21. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS AS REVISION TO PERMIT AFTER ALL WORK IS DONE	SECTION 7: LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC
	WITH THE NEW AND MODIFIED REPAIR NEEDED TO BE DONE AS PER SPECIFIC SITE CONDITIONS FOUND DURING THE REPAIR PROCESS.	SECTION 8: PROSECUTION AND PROGRESS
c		SECTION 100: CONSTRUCTION EQUIPMENT - GENERAL REQUIREMENTS
	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	SECTION 103: TEMPORARY WORK STRUCTURES
	SUPPORTS / JACKING FRAMES IN THE SHOP DRAWINGS. SUBMIT SHOP DRAWINGS FOR CORING AND INSTALLATION	SECTION 104: PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION
	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	SECTION 105: CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS
S	BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN FLORIDA.	SECTION 107: LITTER REMOVAL AND MOWING
	23. SPAN JACKING: THE JACKING DETAILS IN THESE PLANS ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR	SECTION 108: MONITOR EXISTING STRUCTURES
	SHALL OBTAIN A SPECIALTY ENGINEER TO DESIGN THE COMPLETE JACKING SYSTEM FOR REPLACING THE BEARINGS	SECTION 110: CLEANING AND GRUBBING
	AND BE SUBMITTED THROUGH SIGNED AND SEALED SHOP DRAWING FOR REVIEW AND APPROVAL BY THE ENGINEER AND MDAD.	SECTION 400: CONCRETE STRUCTURES
S, √		SECTION 411: EPOXY INJECTION OF CRACKS IN CONCRETE STRUCTURES
		SECTION 413: SEALING CRACKS AND CONCRETE STRUCTURE SURFACES
	STRUCTURAL DESIGN CRITERIA & NOTES:	SECTION 415: REINFORCING FOR CONCRETE
ST	1. DESIGN SPECIFICATIONS: MIA DESIGN GUIDELINE MANUAL, MARCH 2018 EDITION. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), LRFD	SECTION 416: INSTALLATION OF POST-INSTALLED ANCHOR SYSTEMS AND DOWELS FOR STRUCTURAL APPLICATIONS IN CONCRETE ELEMENTS.
	BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION.	SECTION 458: BRIDGE DECK JOINTS
Т	2. DESIGN METHOD:LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD) USING STRENGTH, SERVICE AND FATIGUE LIMIT STATES.	SECTION 460: STRUCTURAL STEEL AND MISCELLANEOUS METALS
	3. STRUCTURAL IMPROVEMENTS SHOWN ON PLANS ARE BASED ON THE FOLLOWING ANALYSIS	SECTION 462: POST-TENSIONING
D	CRITERIA: WALKWAY LIVE LOAD.	SECTION 560: COATING NEW STRUCTURES STEEL
	TRAIN PASSENGER LOAD	SECTION 562: REPAIR OF GALVANIZED SURFACES
	TRAIN VELOCITY	SECTION 901 COARSE AGGREGATE
	4. UNLESS NOTED ON PLANS, ALL STRUCTURAL STEEL TO BE DOMESTIC (ASTM A709 GRADE 50).	SECTION 902: FINE AGGREGATE
	5. HIGH STRENGTH BOLTS (ASTM F3125, GRADE A325 TYPE 1) TO BE 3/4" DIAMETER, UNLESS	SECTION 921: PORTLAND CEMENT AND BLENDED CEMENT
	OTHERWISE SPECIFIED. PROVIDE MATCHING H.S. NUTS AND WASHERS.	SECTION 923: WATER FOR CONCRETE
_	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	SECTION 924: ADMIXTURES FOR CONCRETE
	SPECIFICATIONS.	SECTION 925: CURING MATERIALS FOR CONCRETE
	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	SECTION 926: EPOXY COMPOUNDS
	ELECTRODÉS, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO BE IN ACCORDANCE WITH THE AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING TO	SECTION 929: SUPPLEMENTARY CEMENTITIOUS MATERIALS
	BE REPLACED OR ACCEPTABLY REINFORCED. ALL FULL PENETRATION GROOVE WELDS TO BE SUBJECT TO RADIOGRAPHIC, MAGNETIC PARTICLE, ULTRASONIC, AND LIQUID PENETRANT	SECTION 930: MATERIALS FOR CONCRETE REPAIR
	INSPECTION CONDUCTED BY AN INDEPENDENT TESTING AGENCY PAID BY THE CONTRACTOR. RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT.	SECTION 932: NONMETALLIC ACCESSORY MATERIALS FOR CONCRETE PAVEMENT AND CONCRETE STRUCTURES
	8. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO DEVELOP MEMBER IN SHEAR. (U.O.N.)	SECTION 934: NON-SHRINK GROUT
	9. STEEL BEARING ON STEEL TO BE WELDED THERETO.	SECTION 937: POST-INSTALLED ANCHOR SYSTEMS FOR STRUCTURAL APPLICATIONS IN CONCRETE ELEMENTS
2	10. VERIFICATION AND CERTIFICATION OF ALL WELDING FOR THE PROJECT TO BE MADE BY A	SECTION 962: STRUCTURAL STEEL AND MISCELLANEOUS METAL ITEMS (OTHER THAN ALUMINUM)
	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	SECTION 967: COMPONENTS FOR GUARDRAIL
	SOON AS THEY ARE COMPLETED.	SECTION 975: STRUCTURAL COATING MATERIALS
Т	11. DIMENSIONS: ALL DIMENSIONS IN THE PLANS ARE MEASURED IN FEET, EITHER HORIZONTALLY OR VERTICALLY, UNLESS OTHERWISE NOTED.	IN ADDITION TO FDOT STANDARD SPECIFICATIONS, SECTION T402 RESTORING SPALLED CONCRETE USING SHOTCRTE IS ALSO APPLICABLE TO THE CONSTRUCTION OF THE PROJECT. SEE PROJECT SPECIFICATION DOCUMENT FOR DETAILS.

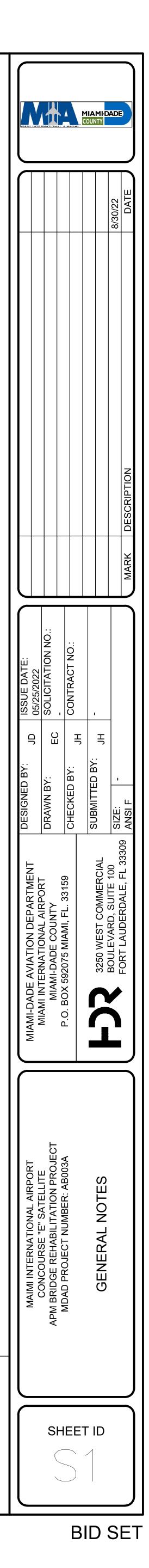
ABBREVIATIONS:

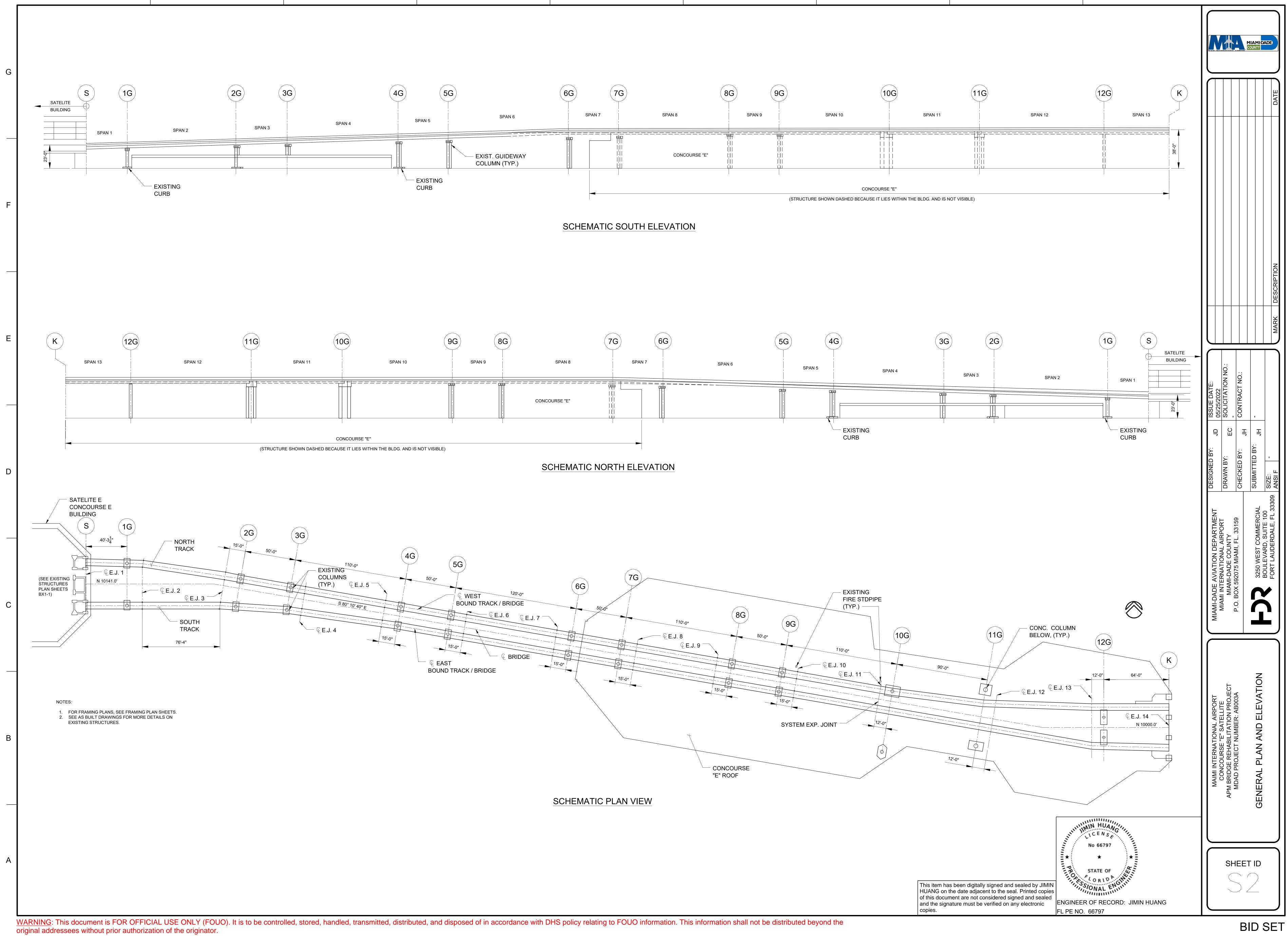
DOCUMENT FOR DETAILS.

		0.
E	=	EXPANSION BEARING
F	=	FIXED BEARING
	=	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



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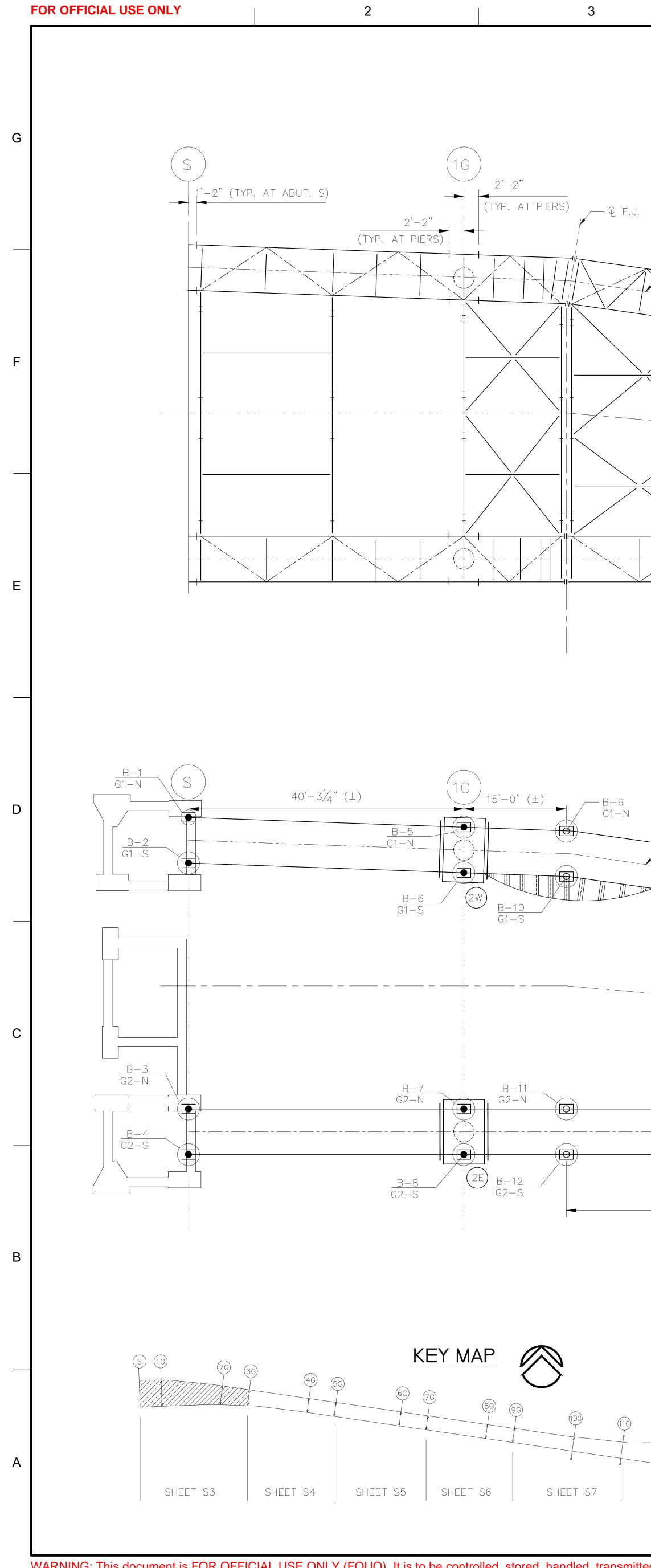






7	8	9

(9G)		0G	(11G)		(12G)	
	SPAN 10	SPAN 11		SPAN 12	SPAN 13	
 		⊧ ŧ			 	



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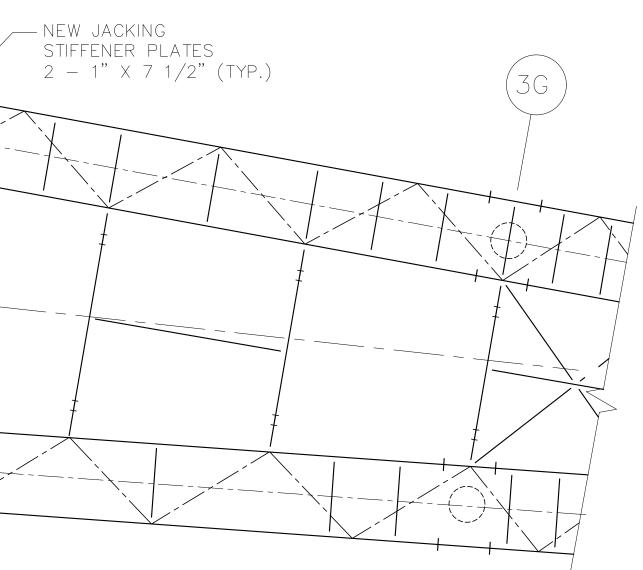
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6

FRAMING PLAN

DIRECTION OF STATIONING ∕── B−9 G1−N — 🤄 NORTH GUIDEWAY & STEEL BEAMS 15'-0" (±) - 🖗 BRIDGE  $\frac{B-14}{G1-S}$ <u>B–18</u> G1–S — & South Guideway & Steel beams <u>B-19</u> G2-N <u>B-15</u> G2-N <u>B–16</u> G2–S 77'-1<sup>3</sup>⁄8" (±) <u>B-20</u> G2-S DROP-IN SPAN 1 SCHEMATIC BEARING LAYOUT NOTES: 1. TYPICAL BEARINGS ARE DESIGNATED AS: – BEARING <u>BEARING</u> NUMBER MARK K (11G) (12G) GUIDEWAY NORTH BOUND MARK AND NUMBER OR SOUTH BOUND SHEET S8

2. LABELS 2E TO 13E AND 2W TO 13W REFER TO THE PIER IDENTIFICATIONS MARKED ON EXISTING STRUCTURES.



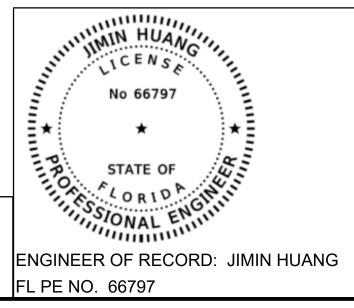
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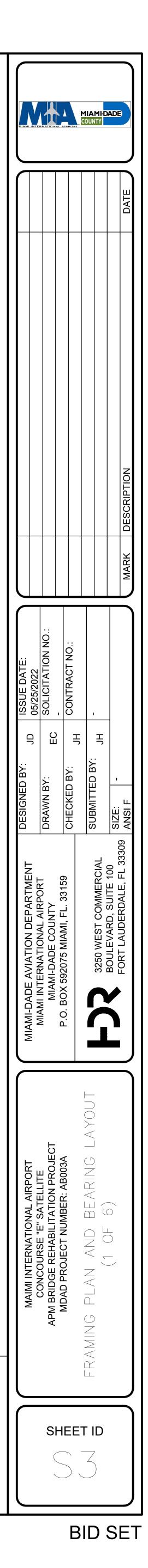
50'-0" (±) (3G — B-21 G1-N (4W)<u>B-23</u> G2-N <u>B-24</u> G2-S

# LEGEND:

●	TYPE I BEARING (GUIDED LONGITUDINALLY AS SHOWN)
0	TYPE II BEARING (FIXED)
	TYPE III BEARING (FIXED)
	PIER CAP TO BE STRENGTHENED (SEE SHEET S12)

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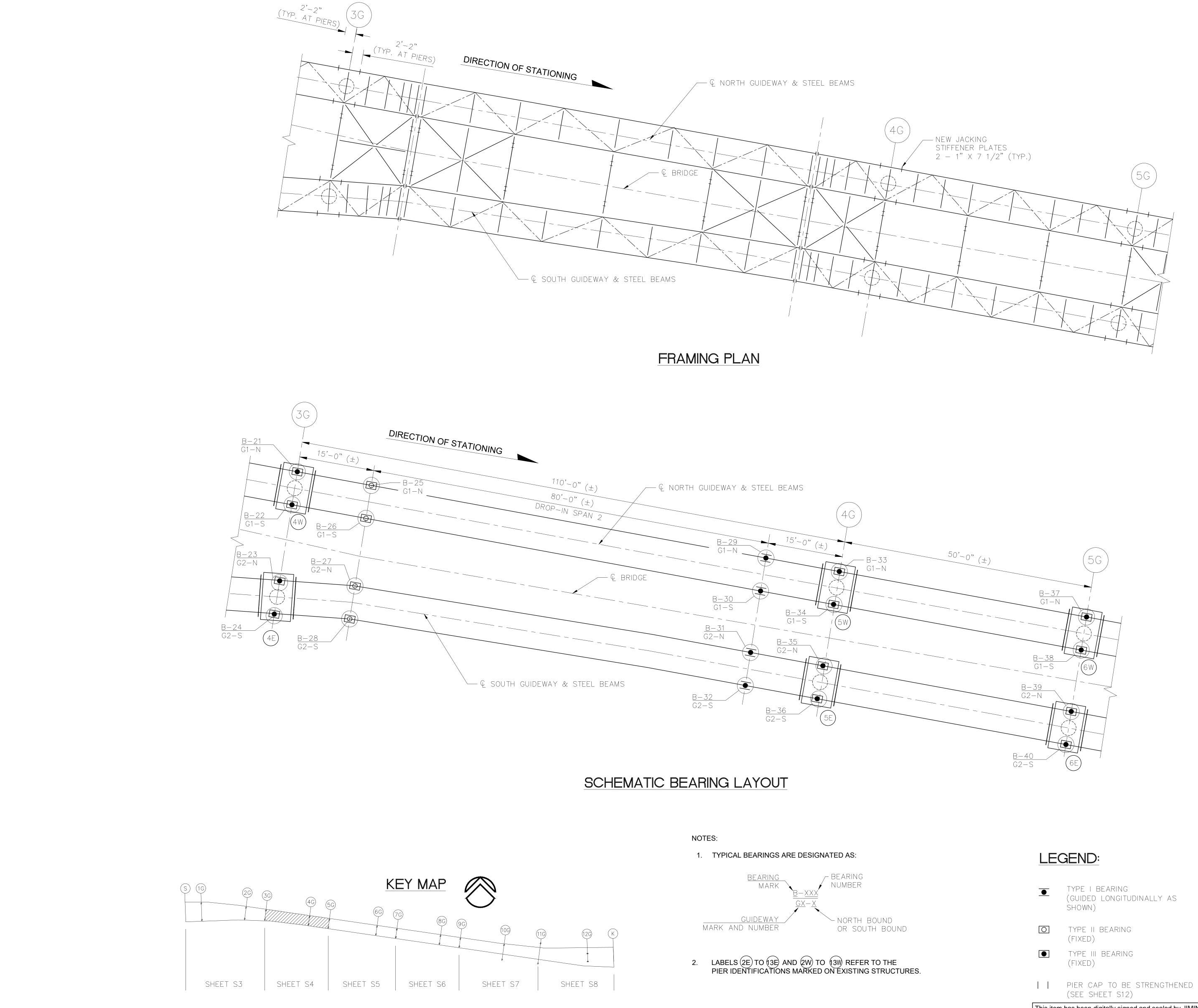




G

D

Α



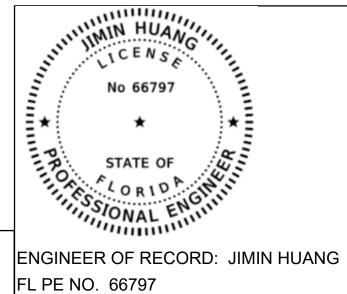
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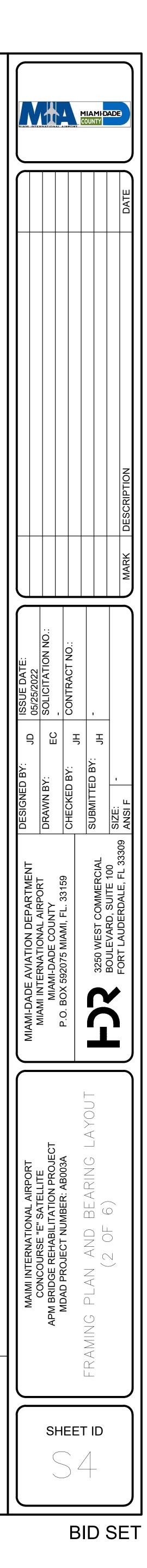
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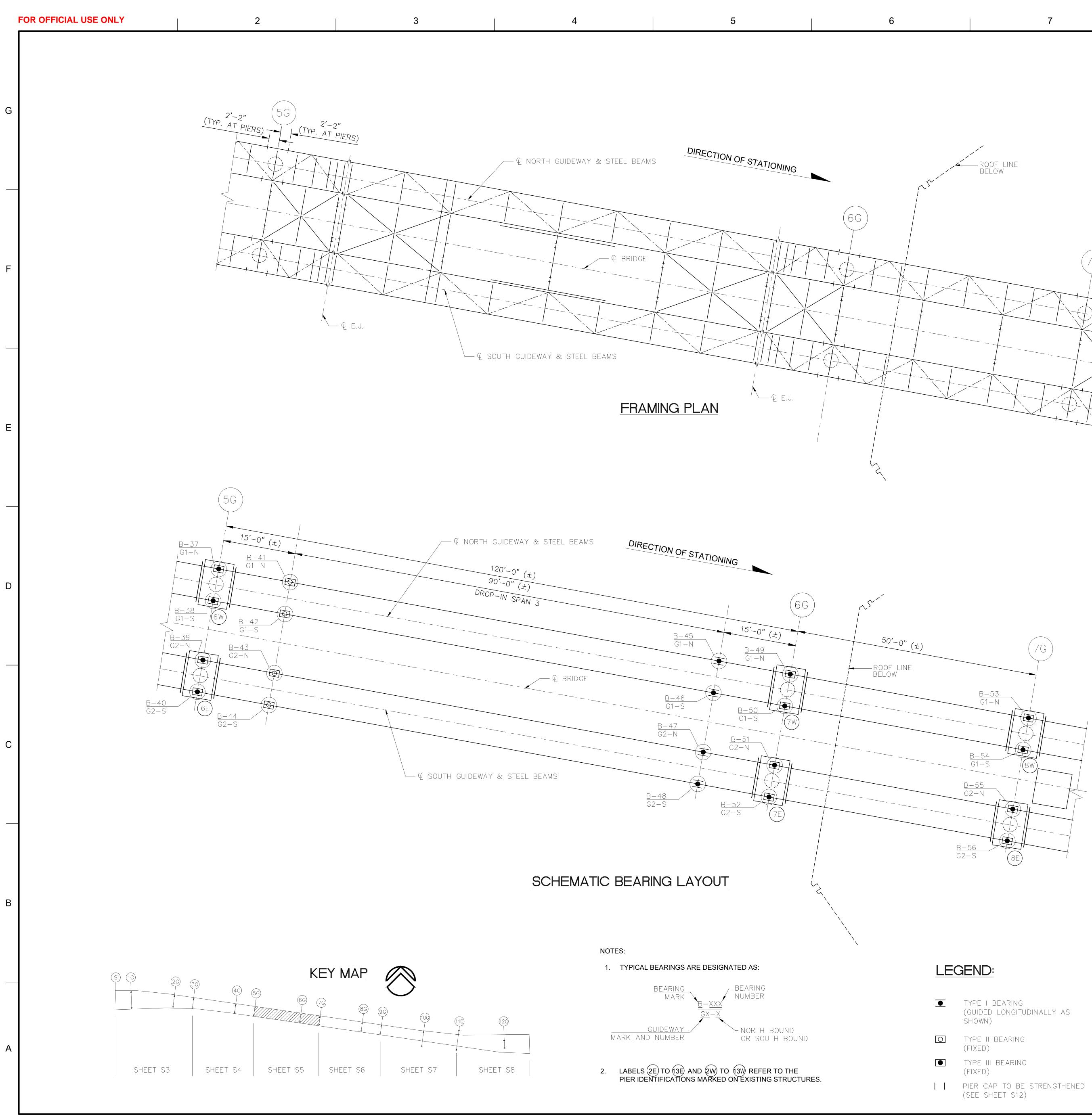
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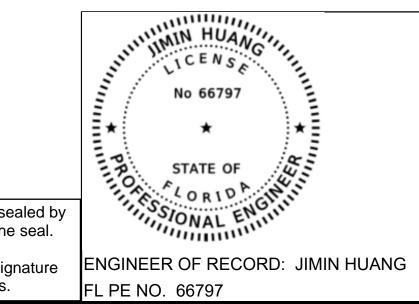


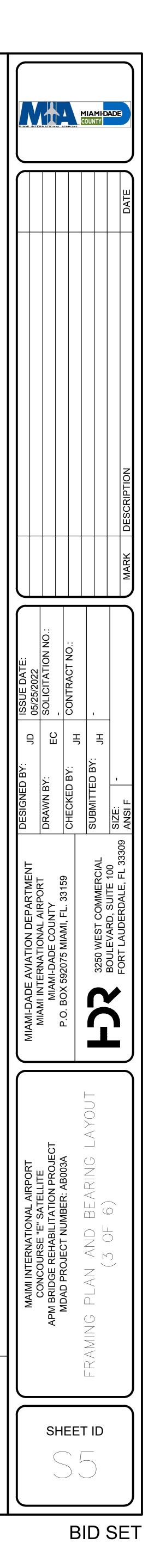
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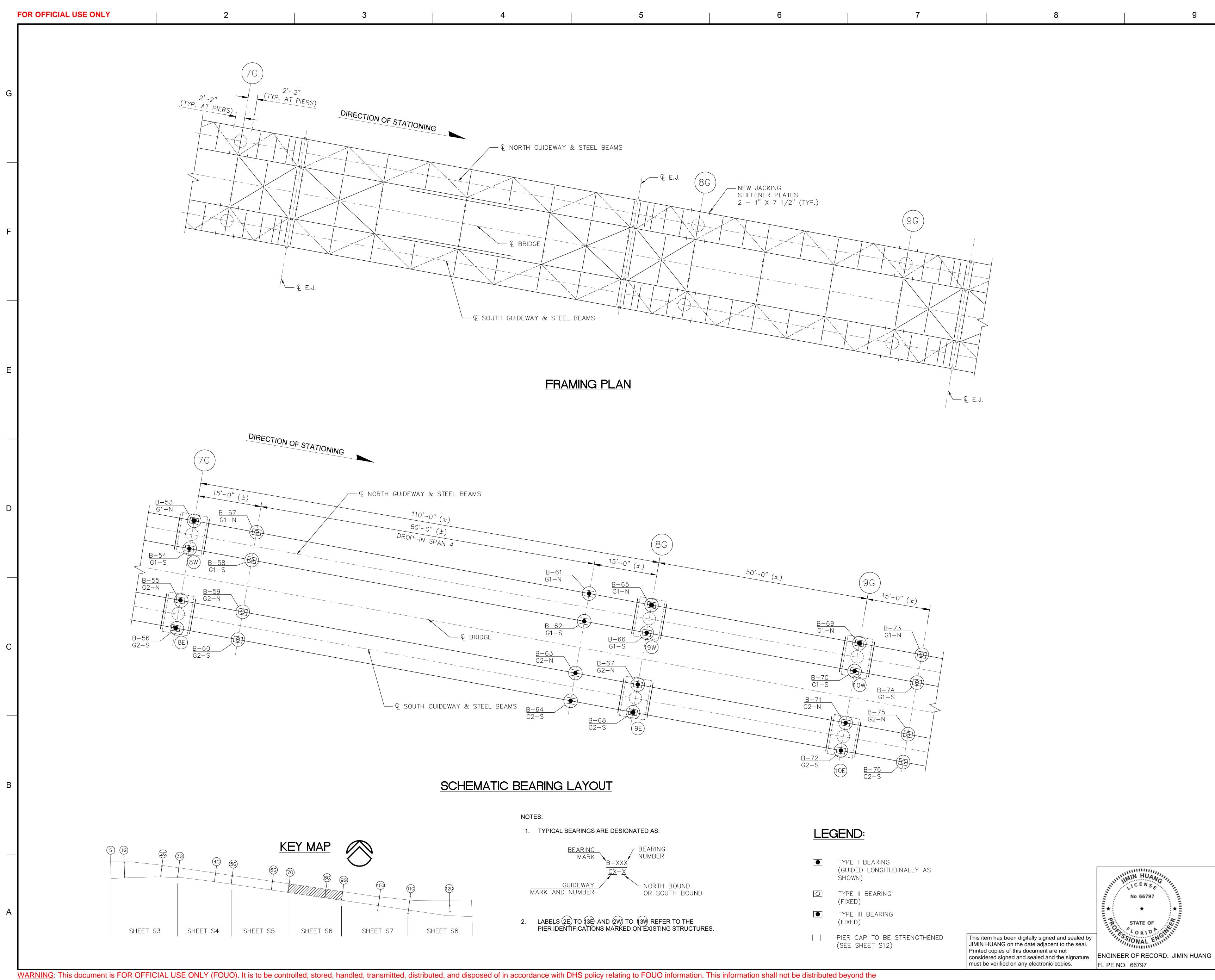
/ 6 NEW JACKING
 STIFFENER PLATES
 2 - 1" X 7 1/2" (TYP.)

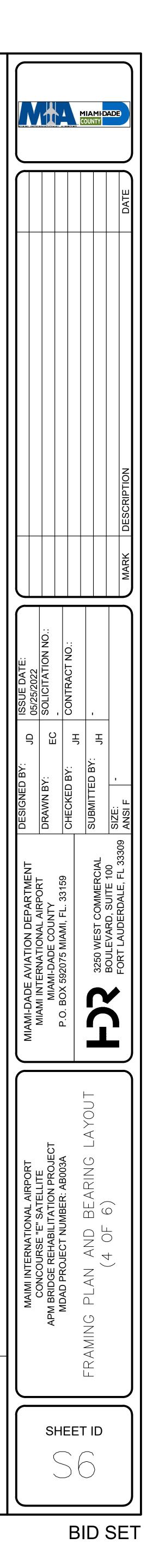
	TYPE I BEARING (GUIDED LONGITUDINALLY AS SHOWN)
0	type II bearing (fixed)
	type III bearing (fixed)
	PIER CAP TO BE STRENGTHENE

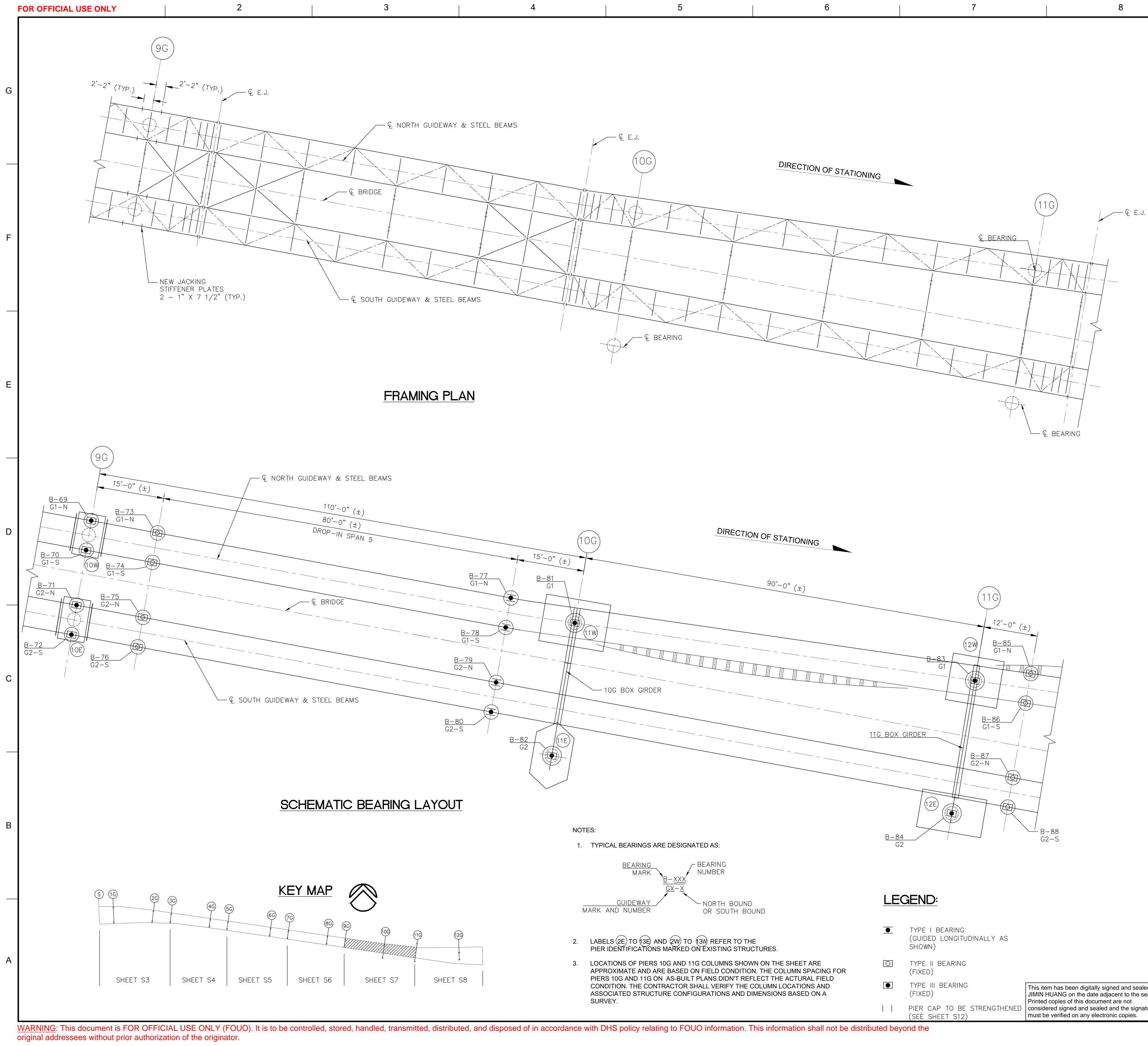
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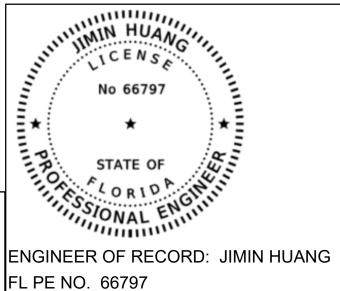


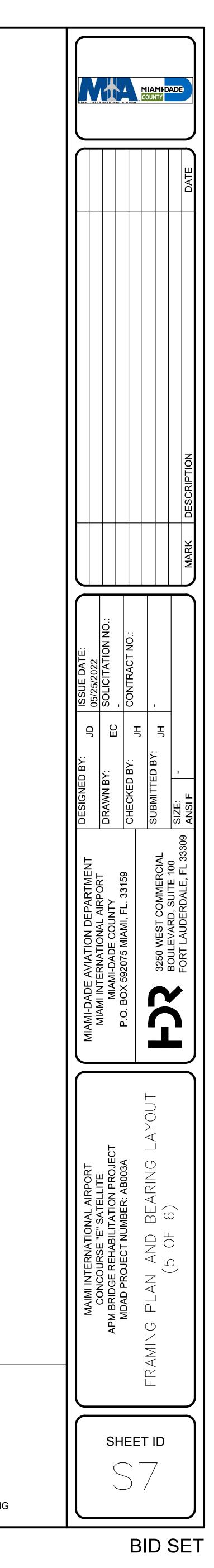




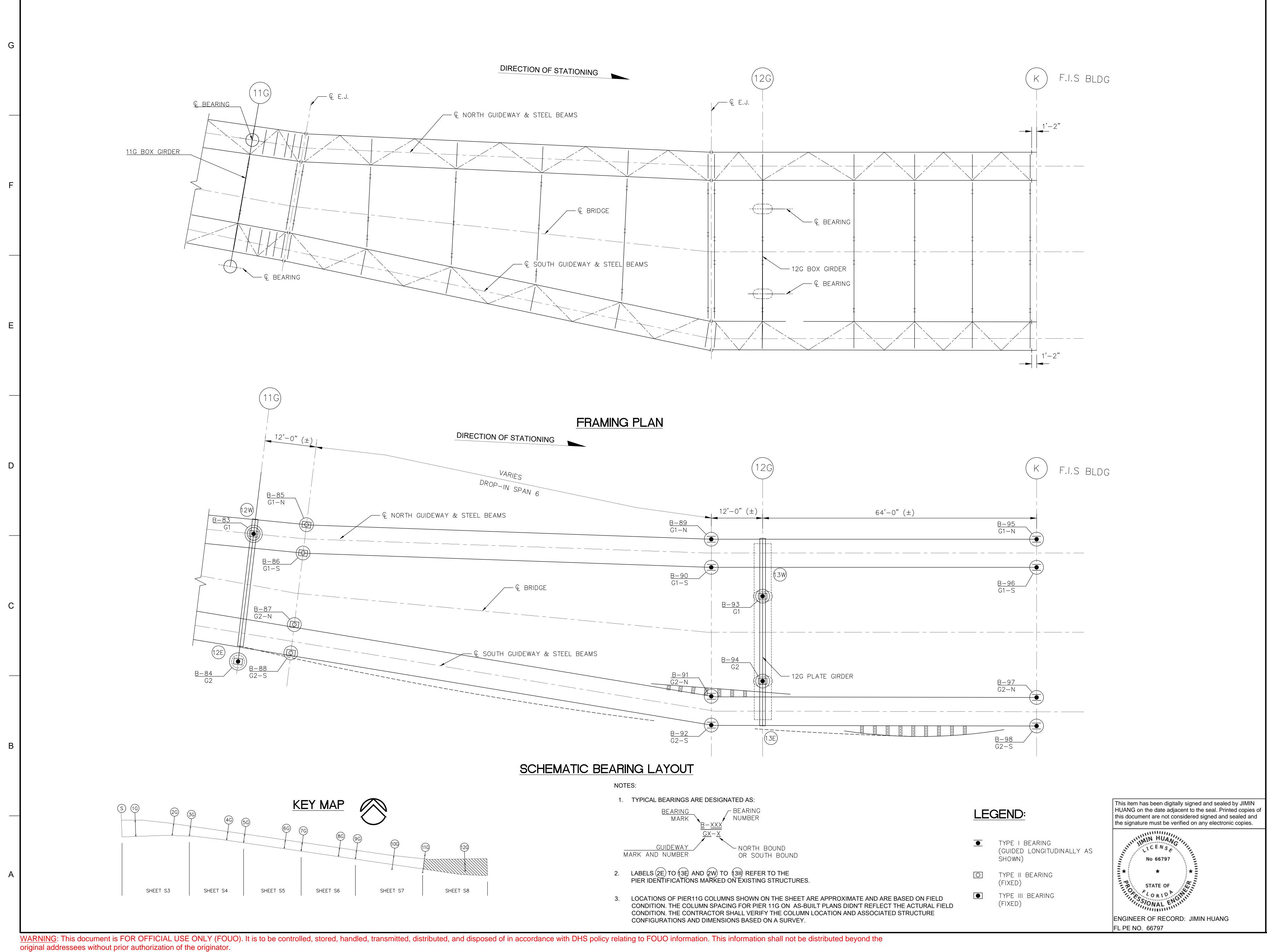
		TYPE I BEARING (GUIDED LONGITUDINALLY AS SHOWN)
G FOR	0	TYPE II BEARING (FIXED)
LD D		TYPE III BEARING (FIXED)
		PIER CAP TO BE STRENGTHENED (SEE SHEET S12)

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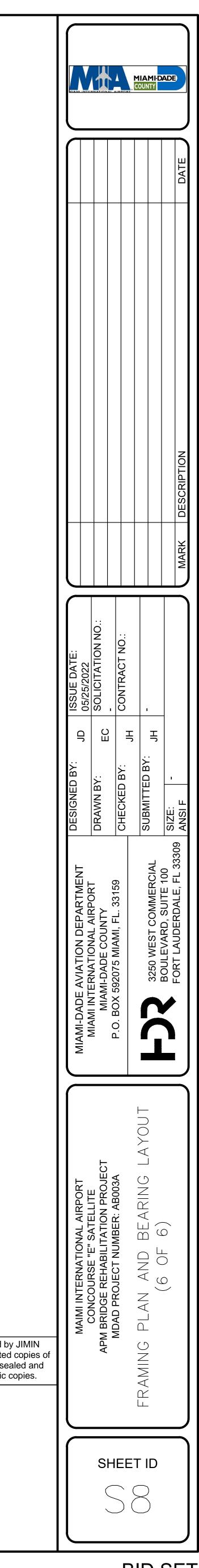








	TYPE I BEARING (GUIDED LONGITUDINALLY SHOWN)	AS
0	TYPE II BEARING (fixed)	



2	
J	

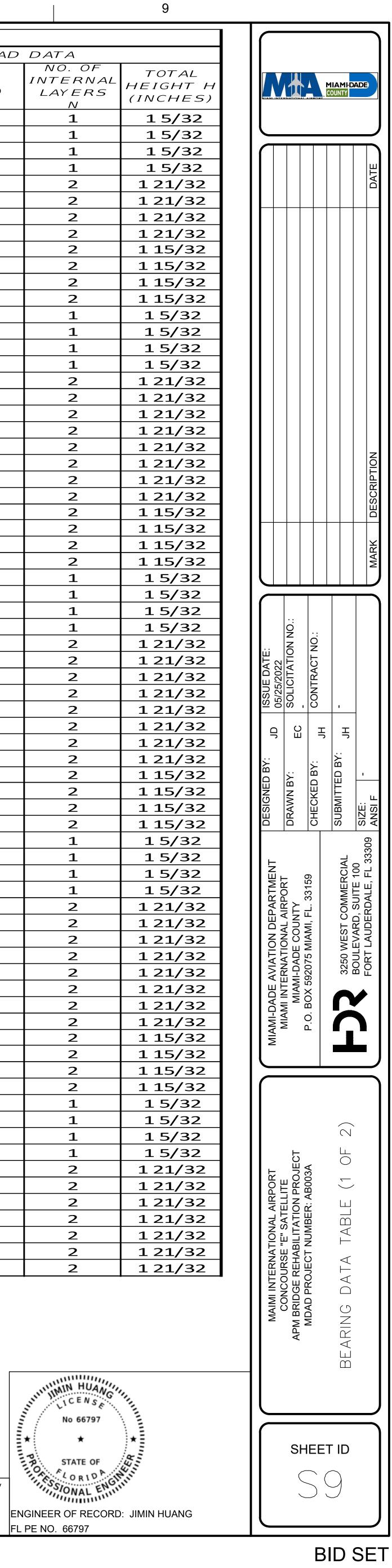
F	OR OFFICIAL USE	ONLY		2		3		4			5		6	7		8		9
					BEARING DATA TABLE													
					REVELED	BEARING	PLATE AND	MASONR	Y PLATE DI	MENSIONS	-	ANCHOR	NCHOR BOLT E	PATA		BEARING PAL	NO. OF	TOTAL
	BEARING I	L LOCATION	GIRDER	A		C C			F FLATE DI	$\frac{1}{\tau}$	α	BOLT	DIM.H (INCHES)	DIM.S (INCHES)	DIM.W (INCHES)	DIM.L (INCHES)	INTERNAL	TOTAL HEIGHT H
				(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES	) (INCHES)	(INCHES)	) (DEGREE S)	DIAMETER (INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	LAYERS N	(INCHES)
	B-1	_	G1-N	1 1/4	1 1/2	1 1/4	1 1/2	15	33	03/8	90	2	2 1/4	3 1/4	10	10	′	15/32
G	B-2	ABUT. S	G1-S	11/4	11/2	11/4	1 1/2	15	33	03/8	90	2	21/4	3 1/4	10	10		15/32
	B-3 B-4	-	G2-N G2-S	1 1/4 1 1/4	1 1/2 1 1/2	1 1/4 1 1/4	1 1/2	15 15	33	03/8	90 90	2	2 1/4 2 1/4	31/4	10 10	10 10		15/32
	B-4 B-5		G2-5 G1-N	05/8	$\begin{array}{c c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	05/8	1 1/2	22	28	03/8	90	15/8	17/8	3 1/4 1 7/8	15	10	2	1 5/32 1 21/32
	B-6	-	G1-S	05/8		05/8	1	23	28	01/2	90	27/8	3 1/8	3 1/8	16	16	2	1 21/32
	B-7	- 1G	G2-N	05/8	1	05/8	1	23	28	0 1/2	90	27/8	3 1/8	3 1/8	16	16	2	1 21/32
	B-8		G2-S	05/8	1	05/8	1	22	28	0 1/2	90	1 5/8	17/8	17/8	15	15	2	1 21/32
	B-9	_	G1-N	03/8	05/8	03/8	05/8	13	13	03/8	90				10	10	2	1 15/32
	B-10	DROP-IN	G1-S	03/8	05/8	03/8	05/8	13	13	03/8	90				10	10	2	1 15/32
	B-11	SPAN 1	G2-N	03/8	05/8	03/8	05/8	13 13	13	01/2	90 90				10	10	2	1 15/32
	B-12 B-13*		G2-S G1-N	03/8	05/8	03/8 03/8	05/8	13	<u>    13</u> 13	03/8	90				10 10	10 10	2	1 15/32 1 5/32
	B-14*	DROP-IN	G1-S	03/8	05/8	03/8	05/8	13	13	03/8	90				10	10		15/32
E	B-15*	SPAN 1	G2-N	03/8	05/8	03/8	05/8	13	13	03/8	90				10	10	1	1 5/32
Г	B-16*		G2-S	03/8	05/8	03/8	05/8	13	13	03/8	90				10	10	1	1 5/32
	B-17	_	G1-N	03/8	1 1/4	03/8	1 1/4	22	28	01/2	90	15/8	17/8	17/8	15	15	2	1 21/32
	B-18	- 2G	G1-S	03/8	11/4	03/8	11/4	23	28	01/2	90	2 1/2	23/4	23/4	16	16	2	121/32
	B-19 B-20	-	G2-N G2-S	03/8	1 1/4 1 1/4	03/8 03/8	1 1/4 1 1/4	23 22	28 28	01/2	90 90	2 1/2	2 3/4 1 7/8	23/4	16 15	16 15	2	1 21/32
	B-20 B-21		 G1-N	03/8	1 1/4	03/8	1 1/4	22	28	01/2	90	15/8 15/8	17/8	17/8 17/8	13	13	2	1 21/32 1 21/32
	B-22	-	G1-S	03/8	1 1/4	03/8	1 1/4	22	28	0 1/2	90	2	2 1/4	2 1/4	15	15	2	1 21/32
	B-23	- 3G	G2-N	03/8	1 1/4	03/8	1 1/4	22	28	0 1/2	90	2	2 1/4	2 1/4	15	15	2	1 21/32
	B-24		G2-S	03/8	1 1/4	03/8	1 1/4	21	28	0 1/2	90	1 5/8	17/8	17/8	14	14	2	1 21/32
	B-25		G1-N	03/8	07/8	03/8	07/8	13	13	05/8	90				10	10	2	1 15/32
	B-26		G1-S	03/8	07/8	03/8	07/8	13	13	05/8	90				10	10	2	1 15/32
	B-27 B-28	SPAN 2	G2-N G2-S	03/8	07/8	03/8 03/8	07/8	13 13	<u>    13</u> 13	01/2	90 90				10 10	10 10	2	1 15/32 1 15/32
Е	B-29*		G1-N	03/8	07/8	03/8	07/8	13	13	03/8	90				10	10		15/32
	B-30*	DROP-IN	G1-S	03/8	07/8	03/8	07/8	13	13	0 1/2	90				10	10		15/32
	B-31*	SPAN 2	G2-N	03/8	07/8	03/8	07/8	13	13	03/8	90				10	10	1	1 5/32
	B-32*		G2-S	03/8	07/8	03/8	07/8	13	13	03/8	90				10	10	1	1 5/32
	B-33	_	G1-N	03/8	11/4	03/8	1 1/4	21	28	01/2	90	15/8	17/8	17/8	14	14	2	1 21/32
	B-34	- 4G	G1-S	03/8	11/4	03/8	11/4	22	28	01/2	90	2	21/4	2 1/4	15	15	2	1 21/32
	B-35 B-36	-	G2-N G2-S	03/8	1 1/4 1 1/4	03/8 03/8	1 1/4 1 1/4	22 21	28 28	01/2	90 90	15/8	2 1/4 1 7/8	2 1/4 1 7/8	15 14	15 14	2	1 21/32 1 21/32
	B-37		G1-N	03/8	1 1/4	03/8	1 1/4	22	28	01/2	90	15/8	17/8	17/8	15	15	2	1 21/32
	B-38	- 5G	G1-S	03/8	1 1/4	03/8	1 1/4	23	28	01/2	90	2	2 1/4	2 1/4	16	16	2	1 21/32
	B-39	- 5G	G2-N	03/8	1 1/4	03/8	1 1/4	23	28	0 1/2	90	2	2 1/4	2 1/4	16	16	2	1 21/32
	B-40		G2-S	03/8	1 1/4	03/8	11/4	22	28	01/2	90	15/8	17/8	17/8	15	15	2	1 21/32
	B-41		G1-N	03/8	07/8	03/8	07/8	13	13	03/8	90				10	10	2	1 15/32
D	B-42 B-43	DROP-IN SPAN 3	G1-S G2-N	03/8 03/8	07/8	03/8 03/8	07/8	13 13	<u>    13</u> 13	03/4	90 90				10 10	10 10	2	1 15/32 1 15/32
	B-44		G2-S	03/8	07/8	03/8	07/8	13	13	03/8	90				10	10	2	1 15/32
	B-45*		G1-N	03/8	07/8	03/8	07/8	13	13	03/8	90				10	10	1	1 5/32
	B-46*	DROP-IN	G1-S	03/8	07/8	03/8	07/8	13	13	03/8	90				10	10	1	1 5/32
	B-47*	SPAN 3	G2-N	03/8	07/8	03/8	07/8	13	13	03/8	90				10	10	′	15/32
	B-48*		G2-S	03/8	07/8	03/8	07/8	13	13	03/8	90				10	10		15/32
	B-49 B-50	-	G1-N G1-S	03/8	1 1/4 1 1/4	03/8 03/8	1 1/4 1 1/4	21 22	28 28	01/2	90 90	15/8	1 7/8 2 1/4	1 7/8 2 1/4	14 15	14 15	2	1 21/32 1 21/32
	B-50 B-51	- 6G	G1-3 G2-N	03/8	1 1/4	03/8	1 1/4	22	28	01/2	90	2	2 1/4	2 1/4	15	15	2	1 21/32
	B-52		G2-S	03/8	1 1/4	03/8	1 1/4	21	28	0 1/2	90	1 5/8	17/8	17/8	14	14	2	1 21/32
	B-53		G1-N	03/8	1 1/4	03/8	1 1/4	21	28	0 1/2	90	15/8	17/8	17/8	14	14	2	1 21/32
	B-54	- 7G	G1-S	03/8	11/4	03/8	11/4	22	28	01/2	90	2	2 1/4	2 1/4	15	15	2	1 21/32
	B-55	-	G2-N	03/8	11/4	03/8		22	28	01/2	90		2 1/4	2 1/4	15	15	2	1 21/32
C	B-56 B-57	+	G2-S G1-N	03/8 01/2	1 1/4 0 3/4	03/8 01/2	1 1/4 0 3/4	21 13	28 13	01/2	90 90	15/8	17/8	17/8	14 10	14 10	2	1 21/32 1 15/32
	B-57	DROP-IN	G1-S	01/2	03/4	01/2	03/4	13	13	03/8	90				10	10	2	1 15/32
	B-59	SPAN 4	G2-N	01/2	03/4	0 1/2	03/4	13	13	01/2	90				10	10	2	1 15/32
	B-60		G2-S	0 1/2	03/4	0 1/2	03/4	13	13	0 5/8	90				10	10	2	1 15/32
	B-61*	_	G1-N	01/2	03/4	01/2	03/4	13	13	03/8	90				10	10	′	15/32
	B-62*	DROP-IN	G1-S	01/2	03/4	01/2	03/4	13	13	03/8	90				10	10	1	15/32
	B-63* B-64*	SPAN 4	G2-N G2-S	01/2	03/4	01/2	03/4	13 13	13	05/8	90 90				10 10	10 10		15/32
	B-64			01/2	03/4	0 1/2 0 3/4	03/4	21	13 28	05/8	90	15/8	17/8	 1 7/8	10	10	2	1 5/32 1 21/32
	B-66	-	G1-S	03/4	03/4	03/4	03/4	22	28	0 1/2	90	2	2 1/4	2 1/4	15	15	2	1 21/32
	B-67	- 8G	G2-N	03/4	03/4	03/4	03/4	22	28	0 1/2	90	2	2 1/4	2 1/4	15	15	2	1 21/32
	B-68		G2-S	03/4	03/4	03/4	03/4	21	28	0 1/2	90	1 5/8	17/8	17/8	14	14	2	1 21/32
В	B-69	4	G1-N	03/4	03/4	03/4	03/4	21	28	01/2	90	15/8	17/8	17/8	14	14	2	121/32
	B-70	- 9G	G1-S	03/4	03/4	03/4	03/4	22	28	01/2	90	2	2 1/4	2 1/4	15	15	2	1 21/32
	B-71		G2-N	03/4	03/4	03/4	03/4	22	28	0 1/2	90	2	2 1/4	2 1/4	15	15	2	1 21/32
	HEIGHT (	D STAINLESS S OF THE PTFE AN D IN THE TOTAI	ND STAINLESS	STEEL PLATE	S, 9/32" IN TOTA						<u>NOTES:</u> 1. FOR BEA	ARING DETAILS SE	EE BEARING DETAIL	S SHEETS.			ICENSE	111111
											2. SEE FRA	AMING PLAN AND	BEARING LAYOUT S	HEETS FOR SUPPO	RT AND		No 66797	

Α

- BEARING LOCATIONS.
- 3. FOR OTHER NOTES SEE BEARING DATA TABLE (2 OF 2) SHEET.

7	8

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D	

С

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											_						
	<u>г</u>							BE	EARING D	ATA TABLE							
EARING I	LOCATION	GIRDER	A	В	С	D	MASONRY E	F	T	α (DEGREE	ANCHOR BOLT DIAMETER	DIM.H (INCHES)	DIM.S (INCHES)	DIM.W (INCHES)	BEARING PAD DIM.L (INCHES)	DATA NO. OF INTERNAL LAYERS	TOTAL HEIGHT F
	-				(INCHES)	-			-	5)	(INCHES)					N	(INCHES)
B-72		G2-S	03/4	03/4	03/4	03/4	21	28	01/2	90	15/8	17/8	17/8	14	14	2	1 21/32
B-73		G1-N	03/4	01/2	03/4	0 1/2	13	13	03/8	90				10	10	2	1 15/32
B-74	DROP-IN	G1-S	03/4	0 1/2	03/4	0 1/2	13	13	01/2	90				10	10	2	1 15/32
B-75	SPAN 5	G2-N	03/4	01/2	03/4	0 1/2	13	13	03/8	90				10	10	2	1 15/32
B-76		G2-S	03/4	01/2	03/4	0 1/2	13	13	03/8	90				10	10	2	1 15/32
B-77*		G1-N	03/4	0 1/2	03/4	0 1/2	13	13	03/8	90				10	10	1	1 5/32
B-78*	DROP-IN	G1-S	03/4	0 1/2	03/4	0 1/2	13	13	03/8	90				10	10	1	1 5/32
B-79*	SPAN 5	G2-N	03/4	0 1/2	03/4	0 1/2	13	13	03/8	90				10	10	1	1 5/32
B-80*		G2-S	03/4	0 1/2	03/4	0 1/2	13	13	03/8	90				10	10	1	1 5/32
B-81	- 10G -	N															
B-82	100	S															
B-83	- 11G	N															
B-84		S															
B-85		G1-N	01/2	03/4	01/2	0 3/4	13	13	03/8	90				10	10	2	1 15/32
B-86	DROP-IN	G1-S	0 1/2	03/4	01/2	0 3/4	13	13	03/8	90				10	10	2	1 15/32
B-87	SPAN 6	G2-N	0 1/2	03/4	0 1/2	0 3/4	13	13	0 1/2	90				10	10	2	1 15/32
B-88		G2-S	0 1/2	03/4	0 1/2	0 3/4	13	13	03/8	90				10	10	2	1 15/32
B-89*		G1-N	0 1/2	03/4	0 1/2	0 3/4	13	13	03/8	90				10	10	1	1 5/32
B-90*	DROP-IN	G1-S	0 1/2	03/4	0 1/2	0 3/4	13	13	03/8	90				10	10	1	1 5/32
B-91*	SPAN 6	G2-N	0 1/2	0 3/4	0 1/2	0 3/4	13	13	03/8	90				10	10	1	1 5/32
B-92*		G2-S	0 1/2	03/4	0 1/2	0 3/4	13	13	03/8	90				10	10	1	1 5/32
B-93	- 12G	N															
B-94		S															
B-95		G1-N	0 1/2	0 1/2	0 1/2	0 1/2	14	28	0 5/8	90	1	1 1/4	2 3/8	10	10	2	1 15/32
B-96	] F.I.S. [	G1-S	0 1/2	0 1/2	0 1/2	0 1/2	14	28	0 5/8	90	1	1 1/4	2 3/8	10	10	2	1 15/32
B-97	] BLDG [	G2-N	0 1/2	0 1/2	0 1/2	0 1/2	14	28	0 5/8	90	1	1 1/4	2 3/8	10	10	2	1 15/32
B-98		G2-S	0 1/2	0 1/2	0 1/2	0 1/2	14	28	0 5/8	90	1	1 1/4	2 3/8	10	10	2	1 15/32

\* 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.

4	5	6	7	8	9

NOTES:

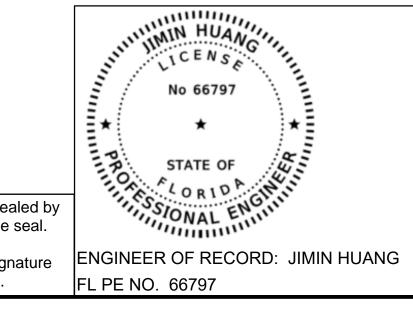
1. THE SIZES OF THE BEARING PLATES SHOWIN IN THE TABLE ARE BASED ON THE INFORMATION FROM THE INSPECTION REPORT. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE ACTURAL HEIGHTS OF EXISTING BEARINGS AND SIZE THE PLATES FOR THE NEW BEARINGS SO THAT THE NEW BEARING HEIGHTS MATCH EXISTING BEARING HEIGHTS.

2. SEE FRAMING PLAN AND BEARING LAYOUT SHEETS FOR SUPPORT AND BEARING LOCATIONS.

3. SEE BEARING DETAILS SHEETS FOR BEARING AND ANCHOR BOLT DETAILS.

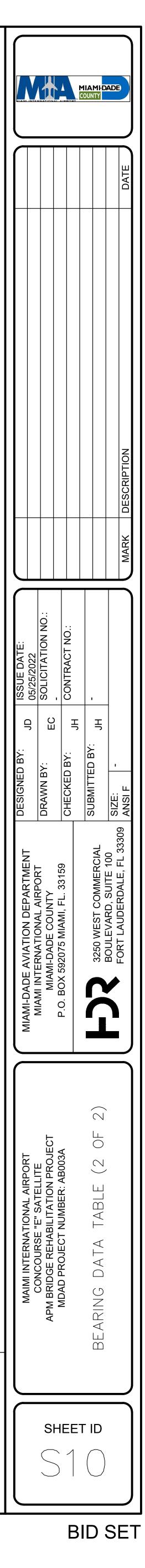
4. SEE JACKING DETAILS SHEETS FOR JACKING DETAILS AND REQUIREMENTS.

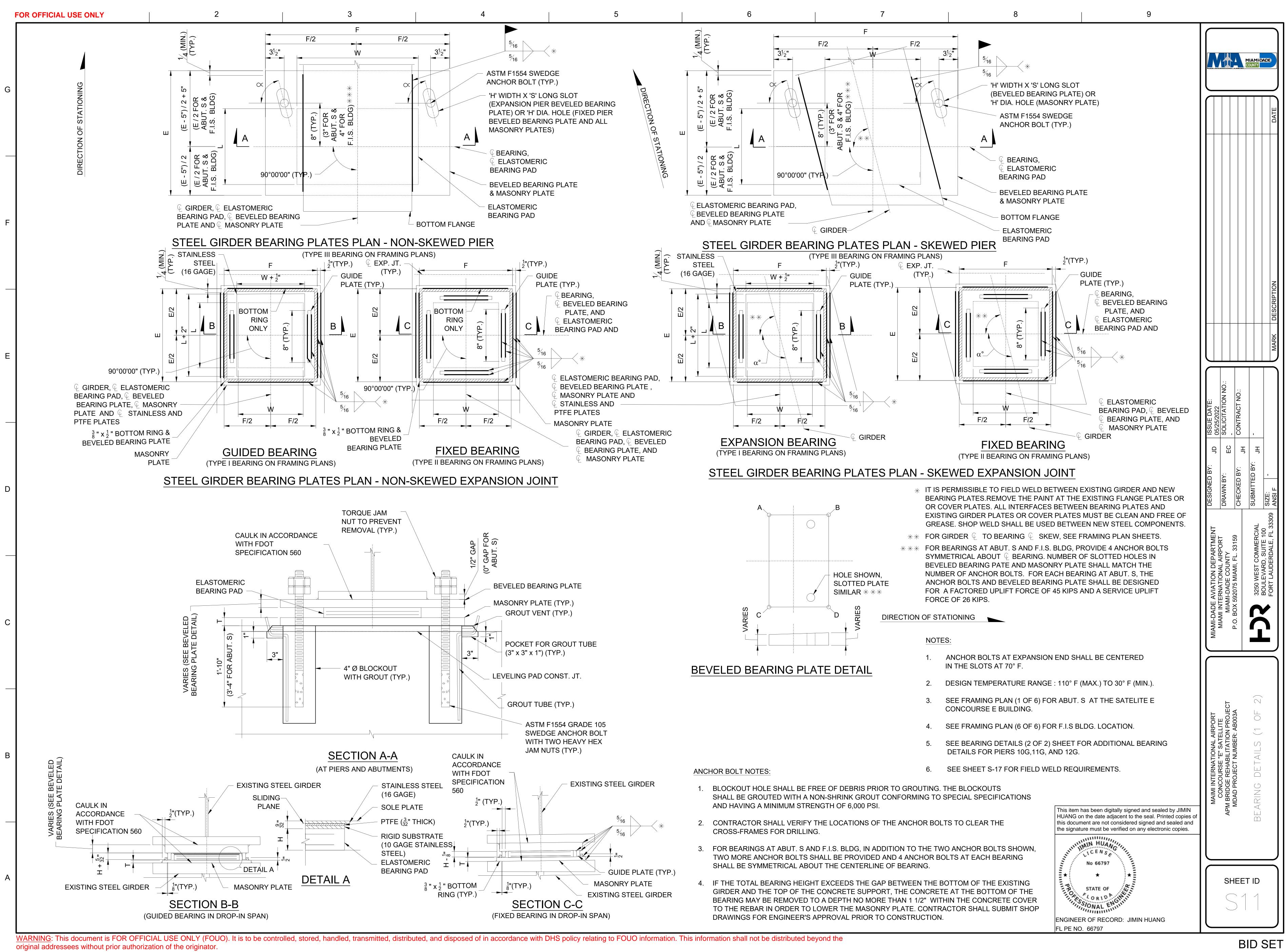
5. NO BEARING REPLACEMENT IS REQUIRED FOR BEARINGS AT PIERS 10G, 11G AND 12G.

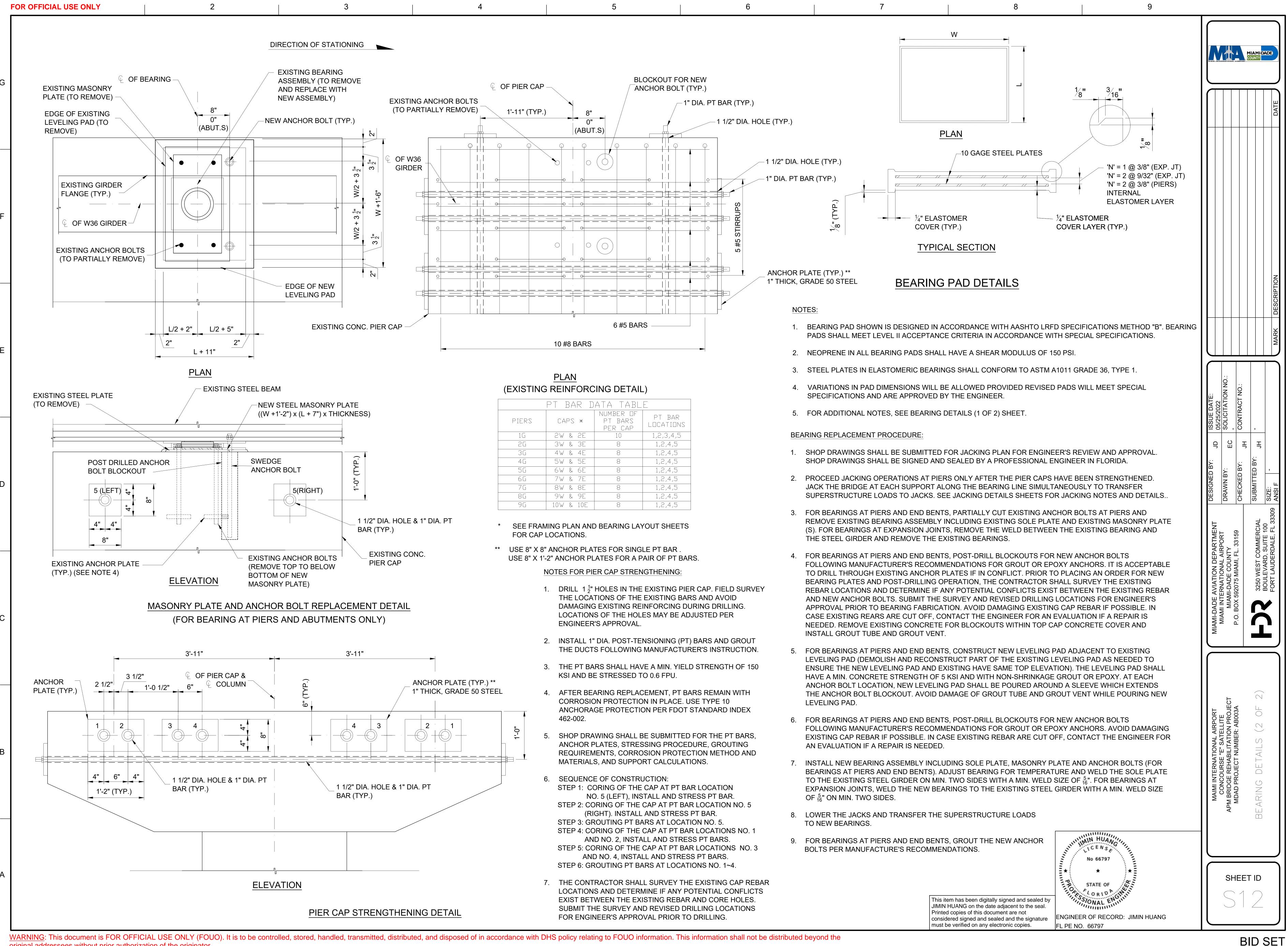


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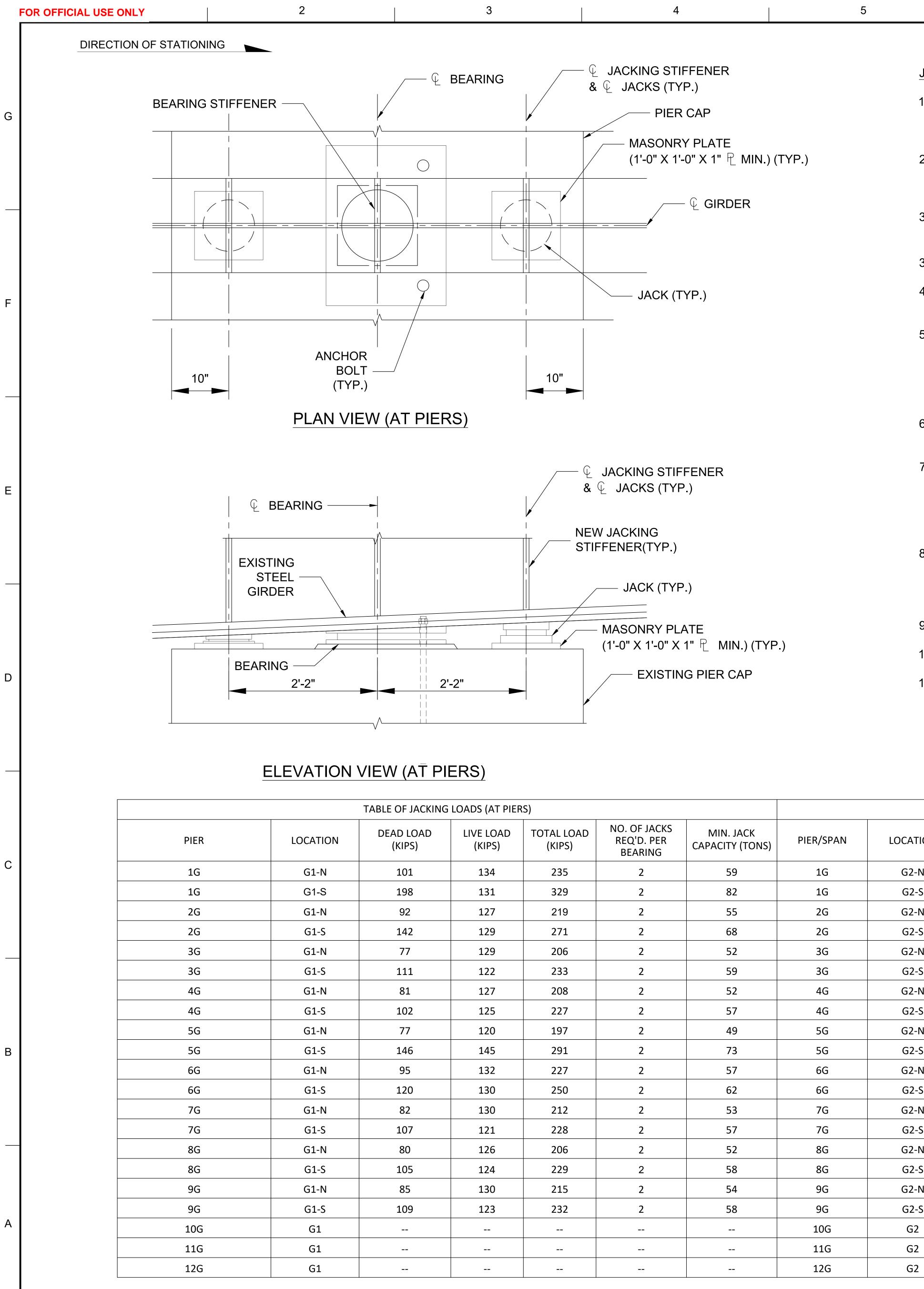




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JA	CKING NOTES:
1.	JACKING OF THE SUPE SHIMS, BEVELED JACK INCLUDED IN THIS CON
2.	JACKING DETAILS, EQU REFERENCE. THE CON THE SHOP DRAWINGS
3.	BEARING REPLACEMEN LOADS.
3.	LIMIT TOTAL JACKING I
4.	LOCATE JACKS UNDER SHALL BE UTILIZED TO
5.	JACKING OPERATION S ALONG A LINE OF SUP

- STRUCTURAL BEHAVIOR.

- 12G.

AT PIEF	RS)					TABLE	OF JACKING LOADS (A	T PIERS)		
OAD S)	TOTAL LOAD (KIPS)	NO. OF JACKS REQ'D. PER BEARING	MIN. JACK CAPACITY (TONS)	PIER/SPAN	LOCATION	DEAD LOAD (KIPS)	LIVE LOAD (KIPS)	TOTAL LOAD (KIPS)	NO. OF JACKS REQ'D. PER BEARING	MIN. JACK CAPACITY (TONS
4	235	2	59	1G	G2-N	191	123	314	2	79
1	329	2	82	1G	G2-S	91	133	224	2	56
7	219	2	55	2G	G2-N	142	124	266	2	67
9	271	2	68	2G	G2-S	93	131	224	2	56
9	206	2	52	3G	G2-N	112	117	229	2	58
2	233	2	59	3G	G2-S	85	135	220	2	55
7	208	2	52	4G	G2-N	108	125	233	2	59
5	227	2	57	4G	G2-S	79	131	211	2	53
0	197	2	49	5G	G2-N	123	121	243	2	61
5	291	2	73	5G	G2-S	85	141	226	2	57
2	227	2	57	6G	G2-N	122	130	252	2	63
0	250	2	62	6G	G2-S	91	136	227	2	57
0	212	2	53	7G	G2-N	106	119	224	2	56
1	228	2	57	7G	G2-S	81	135	216	2	54
6	206	2	52	8G	G2-N	106	124	231	2	58
4	229	2	58	8G	G2-S	82	133	215	2	54
0	215	2	54	9G	G2-N	110	121	231	2	59
3	232	2	58	9G	G2-S	84	137	221	2	56
				10G	G2					
				11G	G2					
				12G	G2					

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PERSTRUCTURE AND EQUIPMENT REQUIRED THEREOF (JACKS, KING PLATES AND TEMPORARY SUPPORT TOWER) ARE NTRACT.

UIPMENT AND DATA SHOWN ON THE DRAWINGS ARE FOR NTRACTOR MAY SUBMIT ALTERNATIVE JACKING DETAILS IN FOR ENGINEER'S APPROVAL.

ENT AND JACKING WILL ONLY BE ALLOWED WITHOUT TRAIN

**MOVEMENT TO**  $\frac{1}{2}$ " MAXIMUM.

R JACKING STIFFENERS ONLY. BEVELED JACKING PLATES O PROVIDE A LEVEL JACKING SURFACE.

SHALL BE PERFORMED SIMULTANEOUSLY FOR ALL JACKS PPORT (PIER). A COMMON PRESSURE MANIFOLD SHALL BE USED THAT UTILIZES THE EQUAL VOLUME OR EQUAL DISPLACEMENT METHOD TO ELIMINATE DIFFERENTIAL JACKING ALONG A LINE OF SUPPORT. RELATIVE MOVEMENT BETWEEN ADJACENT GIRDERS SHALL NOT EXCEED  $\frac{1}{8}$ ".

6. ALL JACKS SHALL BE EQUIPPED WITH LOCKING RINGS TO MAINTAIN THE DESIRED JACKING HEIGHT DURING THE JACKING OPERATION.

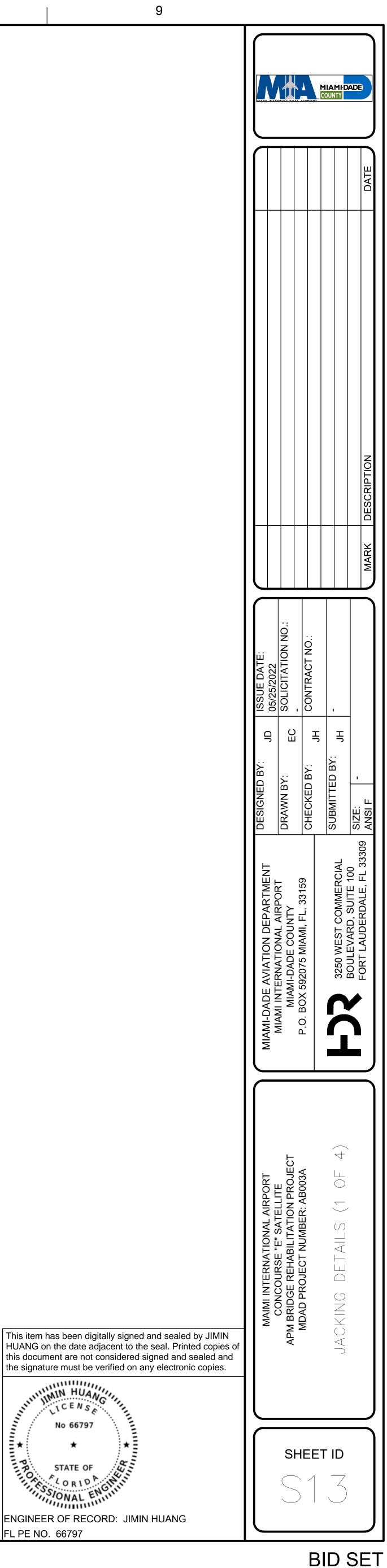
7. JACKING LOAD CAN CONSIDER 1.3 DEAD LOAD WITHOUT TRAIN RUNNING. THE CONTRACTOR SHALL MONITOR THE JACKING LOADS AT ALL JACK LOCATIONS. THE MAX JACKING LOADS MAY NOT EXCEED 120% OF THE PREDICTED JACKING LOADS SHOWN IN THE TABLE. CONTACT THE ENGINEER FOR REVIEW AND APPROVAL FOR A JACKING LOAD EXCEEDING 120% OF THE PREDICTED JACKING LOADS.

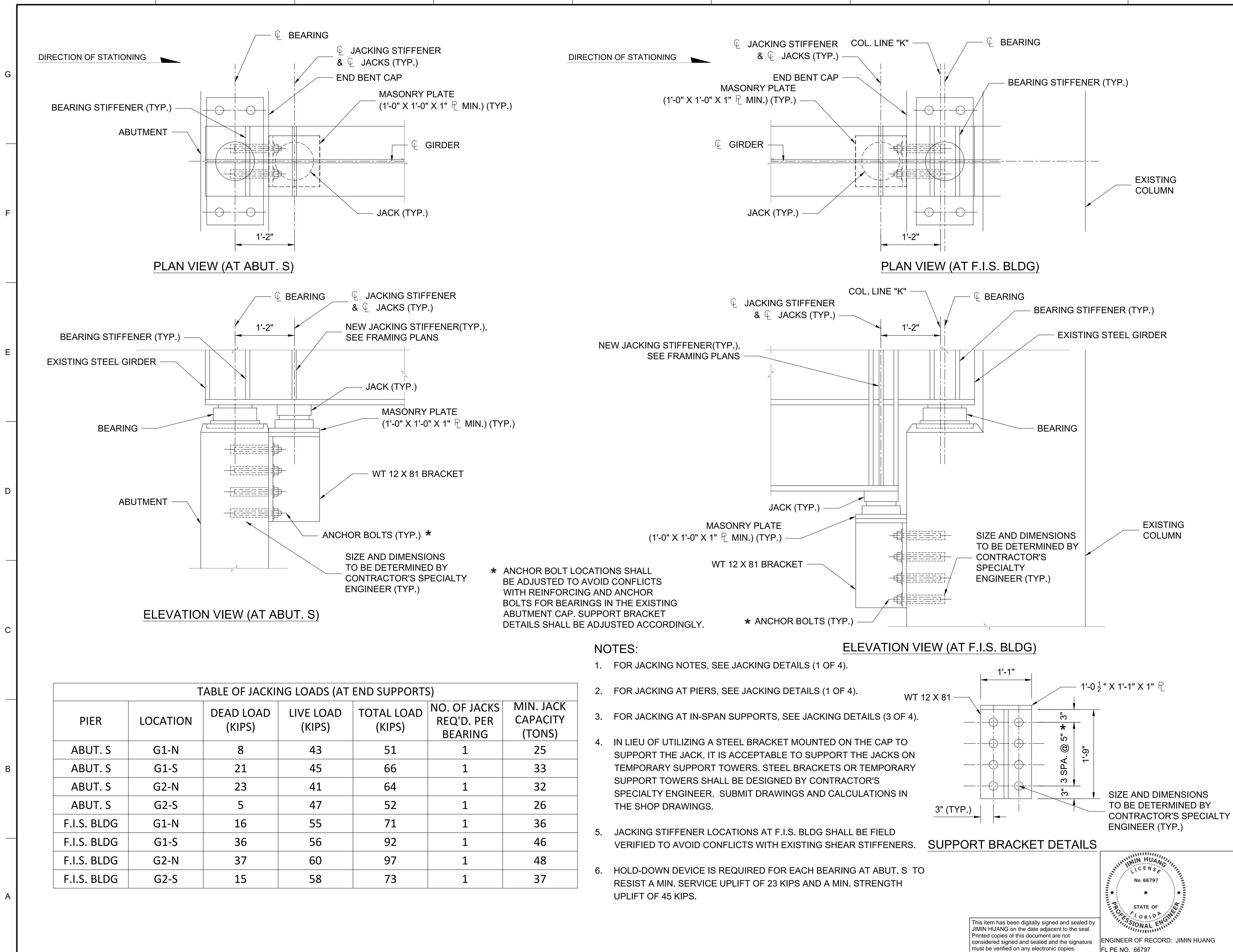
8. MONITOR THE EXISTING BRIDGE STRUCTURE DURING ANY JACKING OPERATION FOR SETTLEMENT, STRUCTURAL STEEL DAMAGE AND POTENTIAL CONCRETE CRACKING. THE CONTRACTOR SHALL IMMEDIATELY STOP JACKING OPERATION FOR UNUSUAL

9. FOR JACKING AT ABUTMENT SUPPORT, SEE JACKING DETAILS (2 OF 4) SHEET.

10. FOR JACKING AT EXPANSION JOINTS, SEE JACKING DETAILS (3 OF 4) SHEET.

11. NO BEARING REPLACEMENT IS REQUIRED FOR BEARINGS AT PIERS 10G, 11G AND



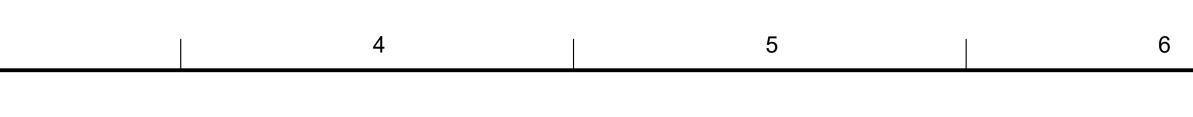


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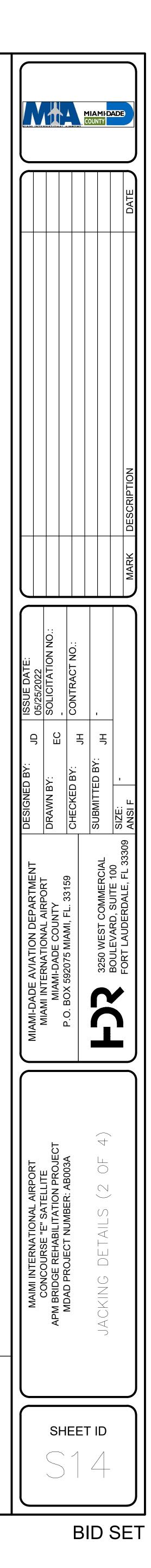
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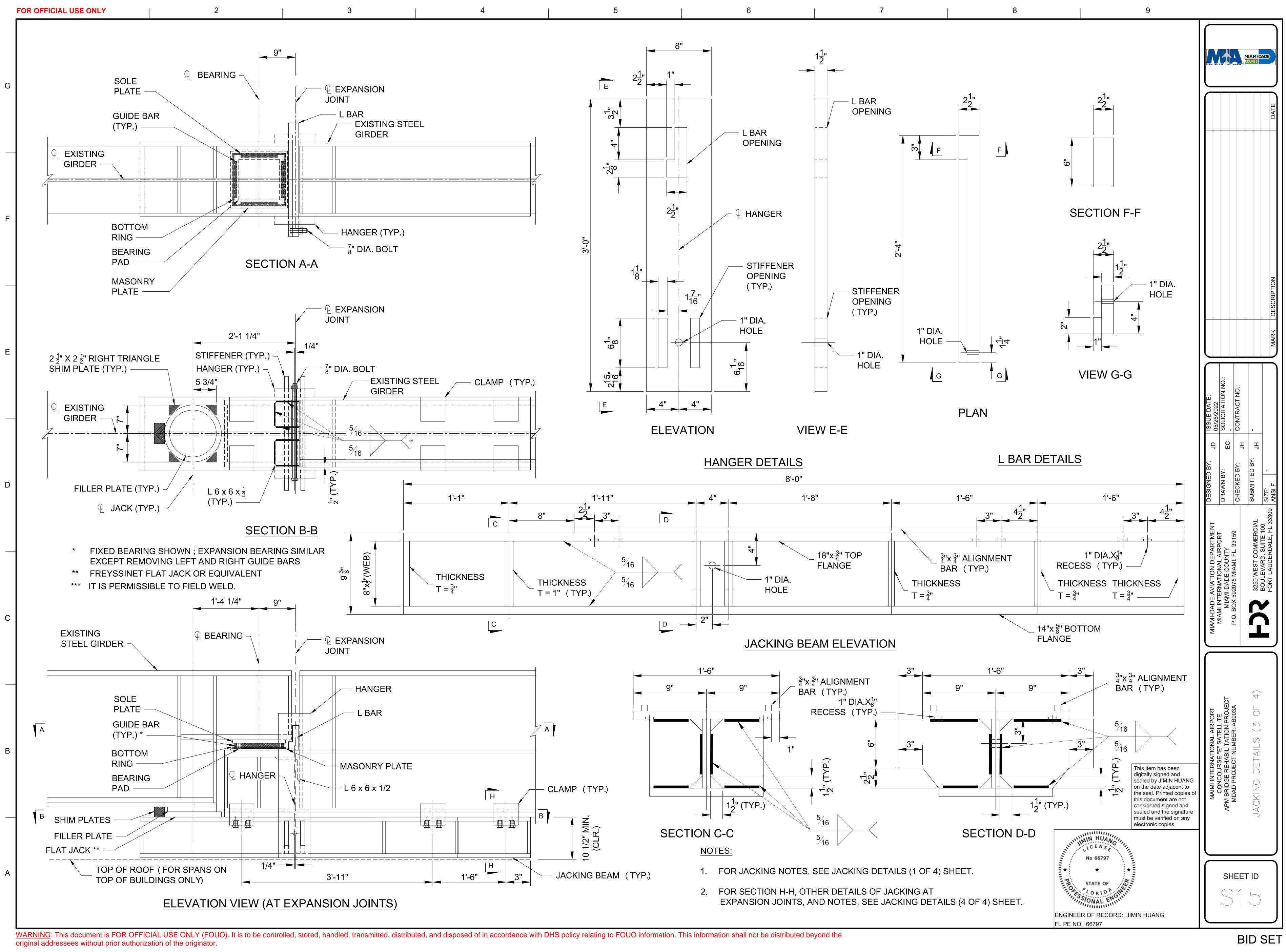
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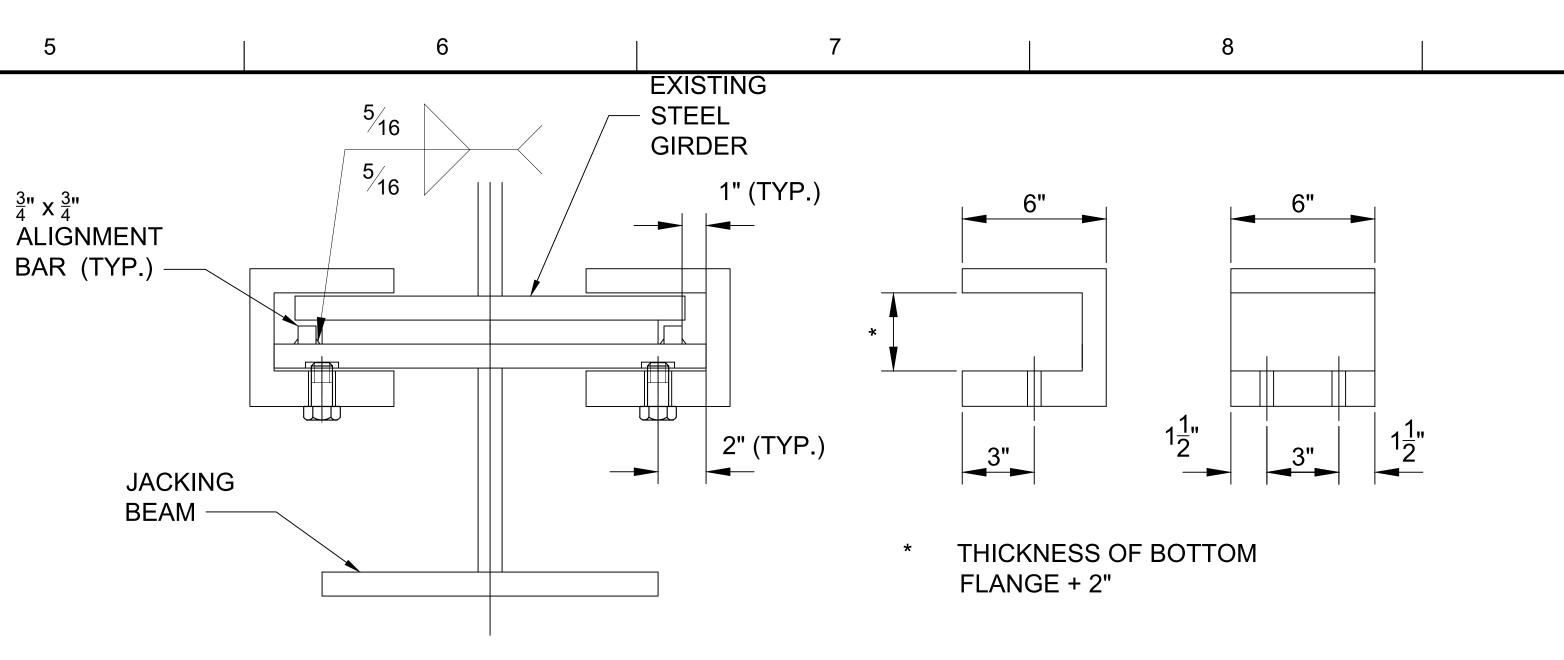
SUPPORTS)					
TAL LOAD (KIPS)	NO. OF JACKS REQ'D. PER BEARING	MIN. JACK CAPACITY (TONS)			
51	1	25			
66	1	33			
64	1	32			
52	1	26			
71	1	36			
92	1	46			
97	1	48			
73	1	37			

7





	DROP-IN SPAN (UP			NG LOADS (AT EXPA		NO. OF JACKS	MIN. JACK
	OR DOWN STATION)	LOCATION	DEAD LOAD (KIPS)	LIVE LOAD (KIPS)	TOTAL LOAD (KIPS)	REQ'D. PER BEARING	CAPACITY (TONS
	1 (UP)	G1-N	50	73	123	1	62
	1 (UP)	G1-S	73	70	143	1	72
	1 (DOWN)	G1-N	49	73	122	1	61
	1(DOWN)	G1-S	67	70	137	1	69
	2 (UP)	G1-N	41	77	118	1	59
	2 (UP)	G1-S	50	66	117	1	59
	2 (DOWN)	G1-N	42	74	115	1	58
	2 (DOWN)	G1-S	49	62	111	1	56
	3 (UP)	G1-N	46	81	128	1	64
	3 (UP)	G1-S	64	81	145	1	73
	3 (DOWN)	G1-N	50	83	133	1	67
	3 (DOWN)	G1-S	59	69	128	1	64
	4 (UP)	G1-N	41	74	116	1	58
	4 (UP)	G1-S	48	61	110	1	55
	4 (DOWN)	G1-N	42	78	120	1	60
	4 (DOWN)	G1-S	49	65	114	1	57
	5 (UP)	G1-N	43	76	119	1	60
	5 (UP)	G1-S	50	62	112	1	56
	5 (DOWN)	G1-N	42	81	122	1	61
	5 (DOWN)	G1-S	50	62	112	1	56
	6 (UP)	G1-N	63	85	149	1	75
	6 (UP)	G1-S	83	74	158	1	79
	6 (DOWN)	G1-N	53	81	134	1	67
	6 (DOWN)	G1-S	105	81	186	1	93
			TABLE OF JACKI	NG LOADS (AT EXPA	NSION JOINTS)		
	DROP-IN SPAN (UP OR DOWN STATION)	LOCATION	DEAD LOAD (KIPS)	LIVE LOAD (KIPS)	TOTAL LOAD (KIPS)	NO. OF JACKS REQ'D. PER BEARING	MIN. JACK CAPACITY (TONS
	1 (UP)	G2-N	70	67	137	1	69
	1 (UP)	G2-S	44	74	119	1	59
	1 (DOWN)	G2-N	62	61	123	1	62
	1 (DOWN)	G2-S	47	74	121	1	61
	2 (UP)	G2-N	49	62	111	1	56
	2 (UP)	G2-S	41	77	119	1	60
	2 (DOWN)	G2-N	49	63	112	1	56
	2 (DOWN)	G2-S	41	79	120	1	60
	3 (UP)	G2-N	59	64	123	1	62
	3 (UP)	G2-S	49	87	135	1	68
	3 (DOWN)	G2-N	59	67	126	1	63
-	3 (DOWN)	G2-S	50	86	136	1	68
	4 (UP)	G2-N	48	60	108	1	54
	4 (UP)	G2-S	41	78	119	1	60
	4 (DOWN)	G2-N	49	64	112	1	56
	4 (DOWN)	G2-S	41	80	122	1	61
	5 (UP)	G2-N	50	61	111	1	56
	5 (UP)	G2-S	44	80	123	1	62
	5 (DOWN)	G2-N	55	67	122	1	61
	5 (DOWN)	G2-S	39	78	117	1	58
	6 (UP)	G2-N	90	79	169	1	85
			67	90	157	1	79
	6 (UP)	(J/-)	n/	.70			
	6 (UP) 6 (DOWN)	G2-S G2-N	106	80	186	1	93



**SECTION H-H** 

NOTES:

- A709 GRADE 36 OR GRADE 50.
- THE ENGINEER AND MDAD.

CLAMP DETAILS

1. FOR JACKING NOTES, SEE JACKING DETAILS (1 OF 4) SHEET.

2. FOR JACKING AT PIERS, SEE JACKING DETAILS (1 OF 4) SHEET.

3. FOR JACKING AT END BENTS, SEE JACKING DETAILS (2 OF 4) SHEET.

4. FOR SECTION H-H LOCATION, SEE JACKING DETAILS (3 OF 4) SHEET.

5. STEEL FOR HANGER, L BAR, AND JACKING BEAM SHALL BE ASTM A709 GRADE HPS70W. OTHER STEEL COMPONENTS IN THE JACKING BEAM (ANGLES, SHIM PLATES, CLAMPS, FILLER PLATE ETC.) ARE ASTM

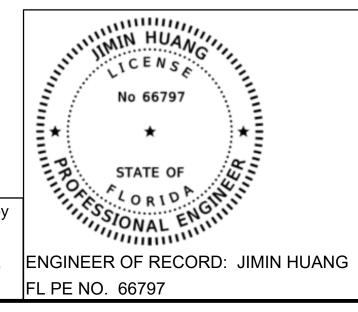
6. SEE JACKING STIFFENER DETAILS SHEET FOR FIELD WELD REQUIREMENTS FOR ANGLES WELDED TO THE EXISTING STEEL GIRDERS AT THE EXPANSION JOINT LOCATIONS.

7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR JACKING BEAM ASSEMBLY FOR ENGINEER'S APPROVAL. THE SHOP DRAWINGS SHALL INCLUDE MATERIALS, DETAILS, AND SUPPORT CALCULATIONS. THE STEEL MATERIAL GRADE AND DIMENSIONS FOR HANGER, L BAR AND JACKING BEAM SHALL NOT BE CHANGED UNLESS WITH ENGINEER'S APPROVAL. THE CONTRACTOR MAY SUBMIT ALTERNATIVE JACKING DETAILS THROUGH A CSI FOR THE APPROVAL OF

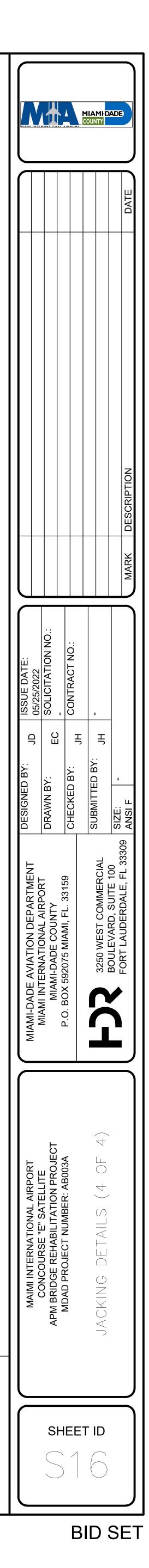
8. THE JACKING BEAM DETAILS SHOWN ON THE DRAWINGS ARE TYPICAL DETAILS. THE CONTRACTOR SHALL SURVEY THE DIMENSIONS OF THE EXISTING GIRDERS AT EACH JACKING LOCATION AND DEVELOP SPECIFIC DETAILS TO MAKE SURE THE JACKING BEAMS FIT THE GEOMETRY OF THE EXISTING GIRDERS. THE JACKING BEAM DETAILS PROVIDED IN THE SHOP DRAWINGS SHALL CONSIDER (1) VARIED CLEARANCE BETWEEN THE BOTTOM OF THE GIRDER AND TOP OF THE EXISTING ROOF, (2) VARIED ELEVATIONS AND GAPS BETWEEN ADJACENT STEEL GIRDERS, AND (3) VARIED GIRDER LONGITUDINAL ALIGNMENTS AT THE EXPANSION JOINTS (AS AN EXAMPLE, ADJACENT GIRDERS AT BEARING B-5 ARE NOT ALONG A STRAIGHT LINE AT THE BEARING LOCATION). THE CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL CONSIDER THE TIME REQUIRED FOR CONDUCTING A SURVEY, DEVELOPING SHOP DRAWING, SHOP DRAWING REVIEWS, AND FABRICATION OF THE JACKING BEAMS. THE SUBMITTED SHOP DRAWINGS WILL NOT BE ACCEPTED IF NOT MEETING ENGINEER'S DESIGN INTENT AND NOT MEETING DESIGN REQUIREMENTS.

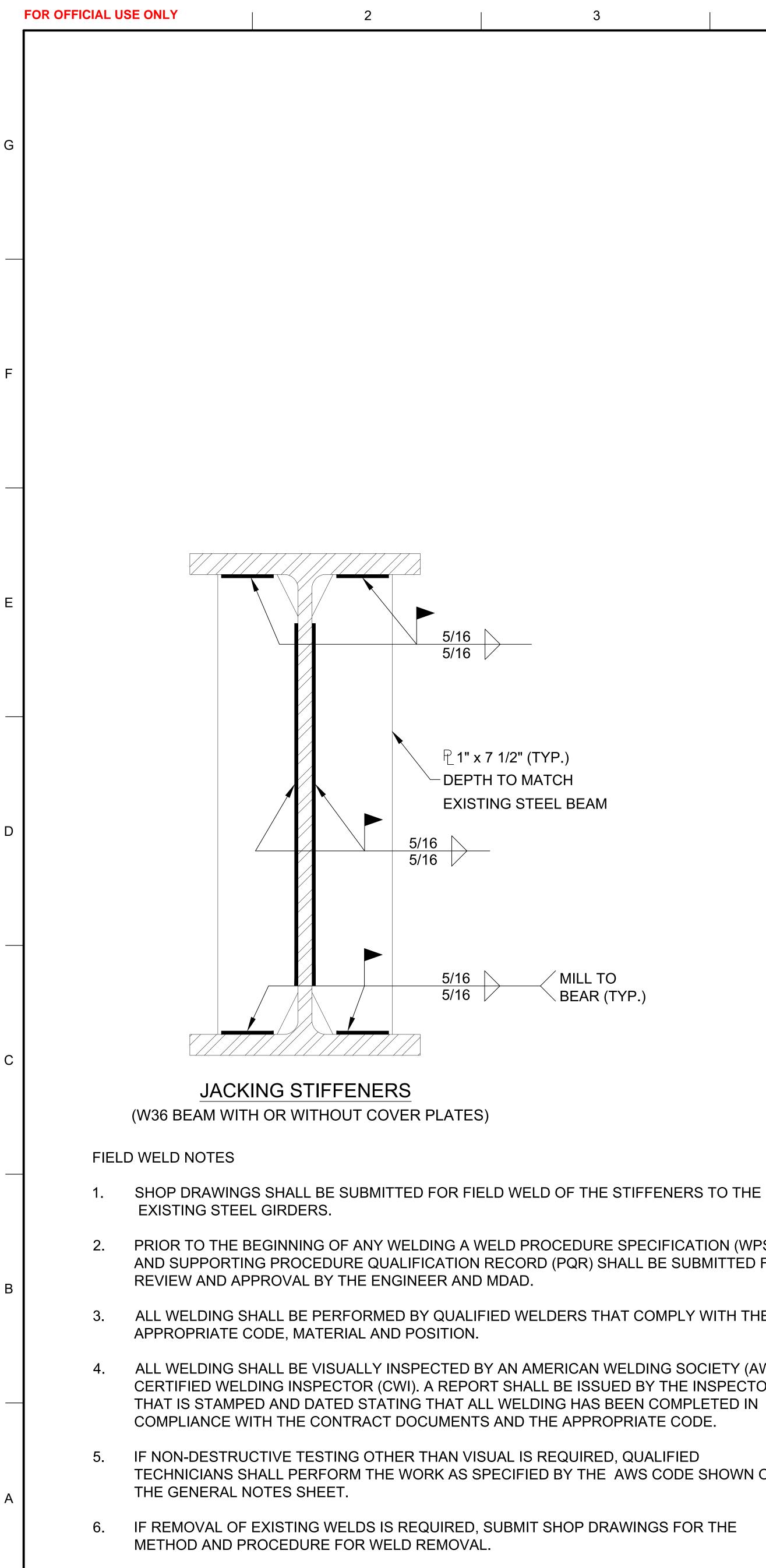
9. CLEAR THE UTILITIES HANGED ON THE EXISTING STEEL GIRDERS IN CONFLICT WITH THE JACKING BEAMS PRIOR TO THE INSTALLATION OF THE JACKING BEAM ASSEMBLY.

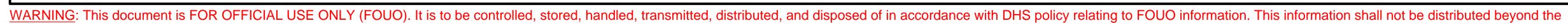
10. WEIGHT OF EACH 8-FOOT JACKING BEAM (EXCLUDING HANGER AND L BAR) IS APPROXIMATELY 860 LBS. FOR THE STORAGE OR MOVEMENT OF JACKING BEAMS ON EXISTING ROOFS (WHEN APPLICABLE), THE CONTRACTOR SHALL USE MEANS AND METHODS TO DISTRIBUTE / SPREAD THE WEIGHT OF JACKING BEAM TO AVOID THE DAMAGE OF EXISTING ROOF IF NECESSARY. ANY ROOF DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE MDAD AND MIA.



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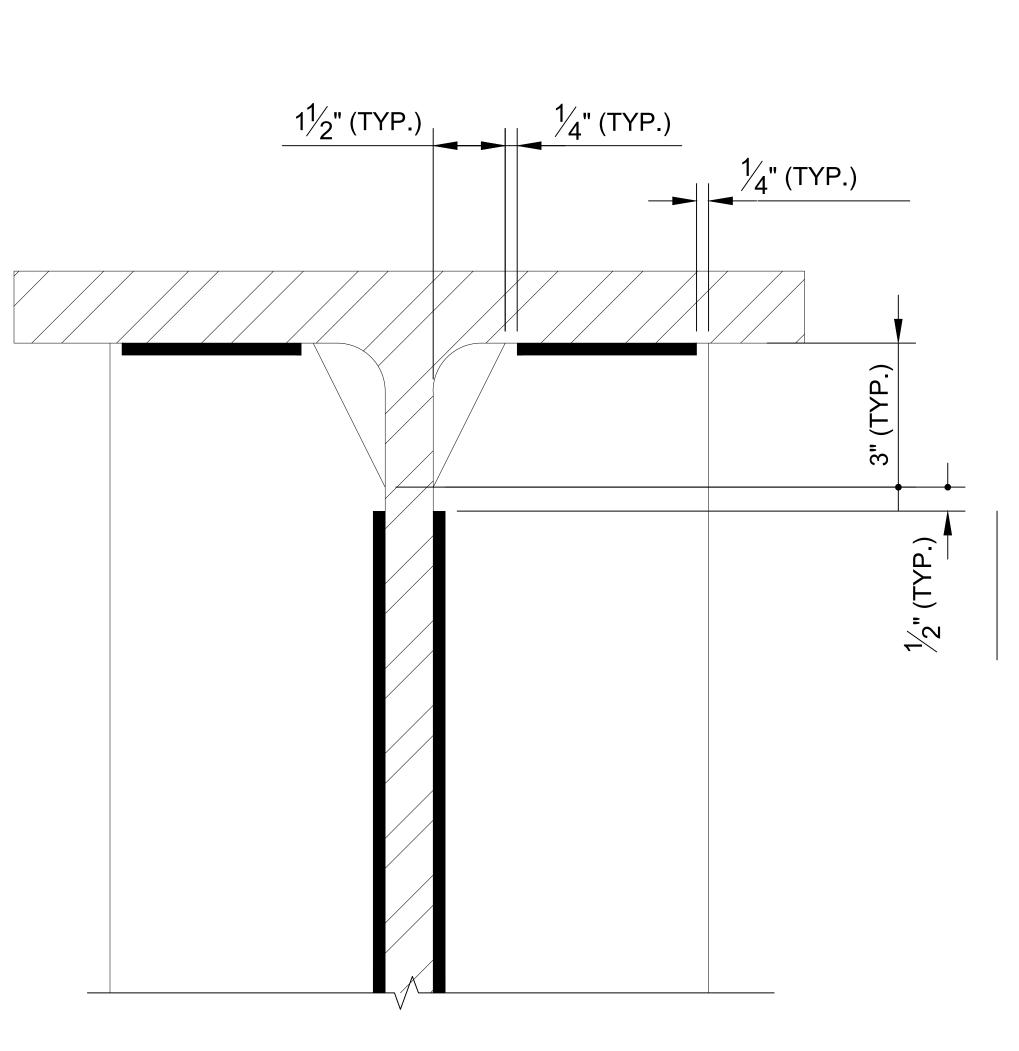




	NOT	ES:
RE SPECIFICATION (WPS) SHALL BE SUBMITTED FOR	1.	SEE FRAMING PLANS FOR LOCATIONS OF JACK
HAT COMPLY WITH THE	2.	STIFFENER STEEL SHALL BE ASTM A572 GRAD
I WELDING SOCIETY (AWS) SUED BY THE INSPECTOR S BEEN COMPLETED IN ROPRIATE CODE.	3.	JACKING STIFFENERS MAY BE INSTALLED WITH PROVIDE TEMPORARY SUPPORT OR TEMPORA TOWER AT THE JACKING STIFFENER LOCATION STIFFENER IS WELDED TO EXISTING GIRDER.
E AWS CODE SHOWN ON	4.	PAINT THE REPLACEMENT ANGLE WITH A HIGH PAINT AND WITH A COLOR MATCHING THE EXIS STRUCTURE BASED ON FDOT STANDARD SPEC

LTO	
AR (TYP.)	

# STIFFENER WELD TERMINATIONS AND CLIP DETAIL



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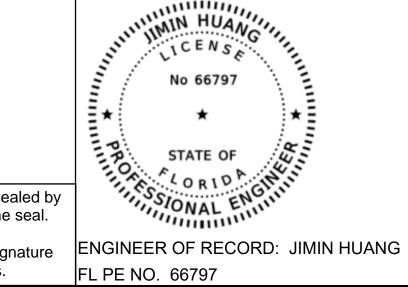
OF JACKING STIFFENERS.

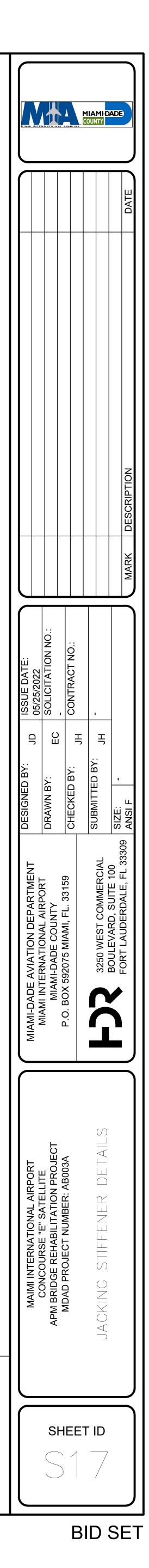
2 GRADE 50.

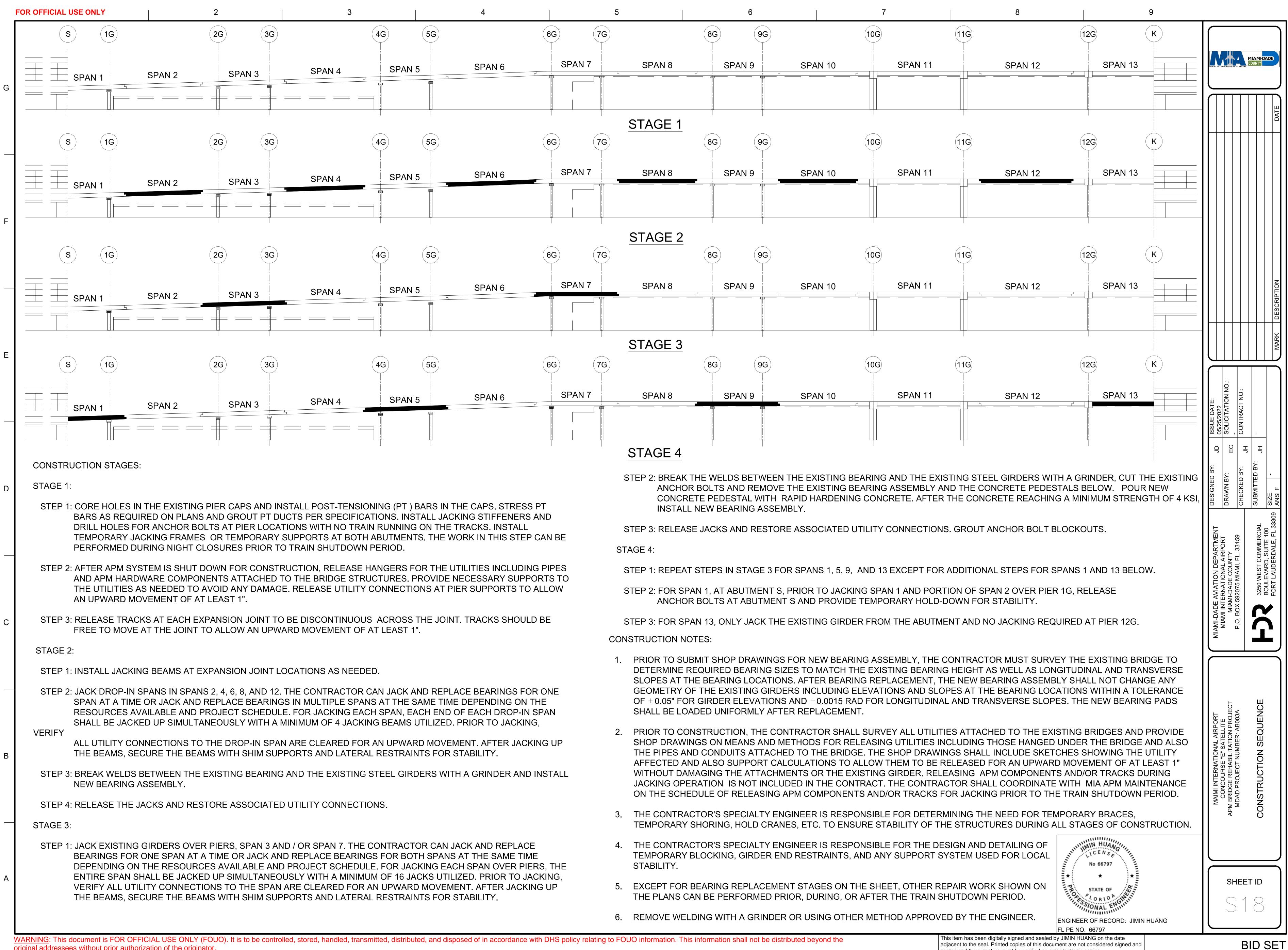
ED WITH TRAIN RUNNING. MPORARY SUPPORT CATION WHEN NEW

A HIGH-PERFORMANCE HE EXISTING STEEL D SPECIFICATIONS.

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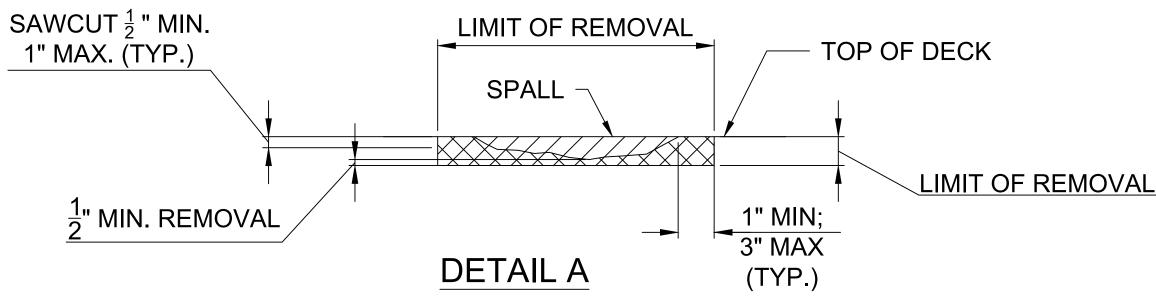
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# NOTES FOR SPALL REPAIR:

- 1. PRIOR TO REPAIR, VISUAL INSPECTION OF THE DECK BY THE CONTRACTOR AND THE ENGINEER IS REQUIRED. IF CONDITION DIFFERING FROM THOSE IDENTIFIED IN THE INSPECTION REPORT AND DETAILS PROVIDED IN THE PLANS ARE ENCOUNTERED, NOTIFY THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.
- 2. ALL SURFACES TO BE REPAIRED MUST BE CLEAN. SOUND AND FREE OF CHLORIDE CONTAMINATED MOISTURE, OIL AND GREASE, REMOVE DUST, RESIDUE, MARINE GROWTH, LAITANCE, CURING COMPOUNDS, WAXES, IMPREGNATION, FOREIGN PARTICLES AND OTHER BOND INHIBITING MATERIALS FROM THE SURFACE BY MEDIA BLASTING. CHIP OFF AREAS THAT HAVE BEEN SATURATED WITH OIL OR GREASE TO SOUND NON-CONTAMINATED CONCRETE. AREAS THAT MAY TRAP AIR ARE TO BE TRIMMED OR VENTED. IF AREAS BECOME CONTAMINATED AFTER INITIAL CLEANING, THEY MUST BE RE-CLEANED PRIOR TO APPLY THE REPAIR MATERIAL
- CONTRACTOR SHALL USE EXTREME CAUTION NOT TO DAMAGE EXISTING REINFORCING STEEL REINFORCING STEEL.IF ANY REINFORCING STEEL IS DAMAGED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR ADDITIONAL INSTRUCTION ON THE APPLICABLE REPAIR. ANY REINFORCING STEEL IS DAMAGED BY THE CONTRACTOR IS TO BE REPAIRED AT NO COST TO THE COUNTY. REMAINING REINFORCING STEEL MUST DISPLAY ACCEPTABLE BONDING WITH EXISTING CONCRETE. IF BONDING IS LOST OR DAMAGED, ADDITIONAL REINFORCING STEEL SHALL BE EXPOSED UNTIL BONDED UNDAMAGED REINFORCING STEEL IS REACHED. EXISTING EPOXY COATING (IF EXISTS) NEED BE RESTORED.
- PROVIDE AN AGGREGATE-FRACTURED SURFACE WITH AN APPROXIMATE SURFACE PROFILE AMPLITUDE OF  $\frac{1}{8}$ " BY USE OF SCRABBLER OR OTHER APPROPRIATE MEANS AS NECESSARY.
- REMOVE CONCRETE FOR SPALLS BY SAW CUTTING AROUND SPALLS (<sup>1</sup>/<sub>2</sub>" MIN. TO 1" MAX). ACHIEVE REMAINING REMOVAL DEPTH BY MEDIA BLASTING OR OTHER METHOD ACCEPTABLE TO THE ENGINEER. PREPARE A DETERIORATED CONCRETE REMOVAL TEST SECTION PRIOR TO REMOVING THE DETERIORATED CONCRETE FOR REVIEW AND APPROVAL BY THE ENGINEER.
- 6. IF THE EXISTING REINFORCEMENT HAS LOST MORE THAN 20% OF ITS CROSS SECTION, A NEW BAR OF EQUAL SIZE (DIAMETER) SHALL BE DRILLED AND EPOXIED WITH AN EMBEDDED LENGTH OF AT LEAST 6" AND PLACED PARALLEL TO EXISTING REINFORCING WITH A SPLICE LENGTH APPROVED BY THE ENGINEER, OR CUT THE EXISTING REBAR AND SPLICED WITH NEW REBAR WITH MECHANICAL COUPLERS. THE NEW REBAR MATERIAL SHALL BE ASTM A615 GRADE 60. IN NO CASE SHALL ANY REBAR BE PLACED WITH A COVER LESS THAN EXISTING COVER. IF THE EXISTING REBAR IS EPOXY-COATED. PROVIDE NEW REBAR WITH EPOXY COATING.
- 7. IF MORE THAN HALF OF THE PERIMETER OF A REINFORCING BAR IS EXPOSED OR THE BOND AROUND THE BAR IS BROKEN, CHIP ADDITIONAL SOUND CONCRETE TO PROVIDE A MINIMUM OF 1" CLEARANCE AROUND EXISTING REINFORCING STEEL AND REMOVE ANY CORROSION FROM EXPOSED REINFORCING STEEL.
- 8. PRIOR TO APPLYING REPAIR MATERIAL, WET EXPOSED CONCRETE SURFACES WITH CLEAN, POTABLE WATER. SUBSTRATE SHALL BE SATURATED SURFACE DRY. APPLY AN APPROVED BONDING AGENT TO THE EXPOSED CONCRETE SURFACES.
- 9. PLACE FORM WORK. FORM WORK MAY BE SUPPORTED BY STAINLESS STEEL INSERTS WHERE REQUIRED. STAINLESS STEEL INSERTS WILL BE LOCATED IN SOUND CONCRETE AND MAY REMAIN IN PLACE. STAINLESS STEEL INSERTS LEFT IN PLACE SHALL BE RECESSED AND PATCHED. IF APPLICABLE, SUBMIT THE MATERIAL OF STAINLESS STEEL INSERTS FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.
- 10. PLACEMENT OF FORMS AND POURING SHALL BE COMPLETED AS SOON AS IS PRACTICAL AFTER MEDIA BLASTING AND BEFORE ANY OTHER CONTAMINATING SITUATION OCCURS (72 HOURS MAX.).
- 11. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE TECHNICAL SPECIAL PROVISIONS FOR CONCRETE RESTORATION WITH LATEX MODIFIED PORTLAND CEMENT MORTAR/CONCRETE. PLACE THE LATEX MODIFIED PORTLAND CEMENT MORTAR/CONCRETE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, TO OVERBUILD AS SHOWN IN DETAIL A.
- 12. FOR SPALLS IN WHICH FORMWORK IS NOT NEEDED. THE REPAIR MATERIAL CAN BE PLACED BY HAND AND TROWELED TO MATCH THE ORIGINAL SECTION. DEFECTS IN THE BASE CONCRETE SUCH AS BROKEN PIECES, VOIDS, HONEYCOMB, CORROSION, ETC. MUST BE REMOVED.
- 13. CURE PER TECHNICAL SPECIAL PROVISIONS OR CURE AT MANUFACTURER'S REQUIREMENTS.
- 14. WHEN SURFACE TO BE REPAIRED EXCEEDS 25% OF THE ELEMENT, REPAIR ONLY 25% OF THE ELEMENT AT A TIME.

# 15. IRREGULAR SHAPE OF BOUNDARY OF LOOSE AND/OR DELAMINATED CONCRETE IS RECOMMENDED TO BE REPAIRED WITH A RECTANGULAR SHAPE OR A COMBINATION OF RECTANGULAR SHAPES.

TABLE OF DECK SPALL DEFICIENCIES						
SPAN NO.	LOCATION *	LENGTH (IN.)	WIDTH (IN.)	DEPTH (IN.)		
8	WB BRIDGE, 2 FT. FROM JOINT NO. 9	12	9	1 1/4		
8	EB BRIDGE, 30 FT. FROM JOINT NO. 8	14	27	1/2		
9	EB BRIDGE, 50 FT. FROM JOINT NO. 9	8	7	1/2		
9	WB BRIDGE, 13 FT. FROM JOINT NO. 10	4	7	1		



# (REPAIR WITH SPALLS)

NOTES FOR CRACK REPAIR

- PRIOR TO REPAIR, VISUAL INSPECTION OF THE DECK CRACKS BY THE FROM THOSE IDENTIFIED IN THE INSPECTION REPORT AND DETAILS PROVIDED IN THE PLANS ARE ENCOUNTERED, NOTIFY THE ENGINEER IN ACCORDANCE WITH SPECIAL SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL PERFORM A THOROUGH SURVEY OF THE EXHIBITED CRACK IN THE DECK AND SUBMIT THE CRACK MAPPING TO THE ENGINEER.

0. 21 0/			
	TABLE OF DECK CRACK DEFICIENCIES		
ABUTMENT NO.	LOCATION	LENGTH (IN.)	WIDTH (IN.)
1	30 FT. FROM ABUTMENT NO.1 BETWEEN TRACKS	30	1/16
1	NEAR ABUTMENT NO.1 4 LONGITUDINAL CRACKS AND 4 DIAGONAL CRACKS	UP TO 36	UP TO 1/8

TABLE OF DECK CRACK DEFICIENCIES						
ABUTMENT NO.	LOCATION	LENGTH (IN.)	WIDTH (IN.)			
1	30 FT. FROM ABUTMENT NO.1 BETWEEN TRACKS	30	1/16			
1	NEAR ABUTMENT NO.1 4 LONGITUDINAL CRACKS AND 4 DIAGONAL CRACKS	UP TO 36	UP TO 1/8			

NOTES FOR EXPANSION JOINT REPAIR AND REPLACEMENT:

- 1. PRIOR TO REPAIR, VISUAL INSPECTION OF THE DECK EXPANSION JOINTS BY THE PLANS ARE ENCOUNTERED, NOTIFY THE ENGINEER IN ACCORDANCE WITH SPECIAL SPECIFICATIONS.
- 2. CLEAN AND REPLACE ALL EXPANSION JOINTS. REPAIR EXISTING JOINT HEADER FOR ANY SPALLING, CRACKS AND DETERIORATION. REPAIR OR REPLACE EXPANSION JOINT EDGE BEAM (IF APPLICABLE) FOR ANY DAMAGES DUE TO CORROSION OR DETERIORATION.
- 3. REMOVE EXISTING JOINT SEAL AND CLEAN THE JOINTS.
- 4. INSTALL NEW JOINT SEAL. SEE MIA DESIGN GUIDELINE MANUAL SECTION 079200 FOR ADDITIONAL JOINT SEALANTS REQUIREMENTS.
- 5. FOR EB BRIDGE JOINT 9, CLEAN AND REMOVE CORROSION FROM THE JOINT METAL HEADER.
- 6. SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL INCLUDING DETAILS AND INSTALLATION REQUIREMENTS, AND ANY OTHER APPLICABLE PROFESSIONAL ENGINEER IN FLORIDA.

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7		8	

\* SEE GENERAL PLAN AND ELEVATION SHEET FOR SPAN AND JOINT LOCATIONS

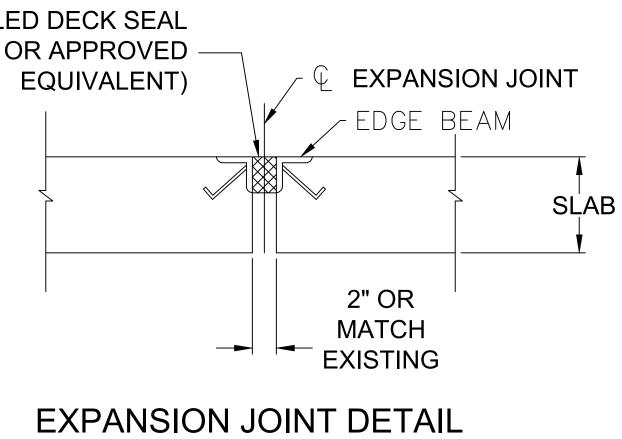
CONTRACTOR AND THE ENGINEER IS REQUIRED. IF CONDITIONS DIFFERING

3. EPOXY INJECT AND SEAL THE CRACKS BASED ON FDOT SPECIFICATIONS.

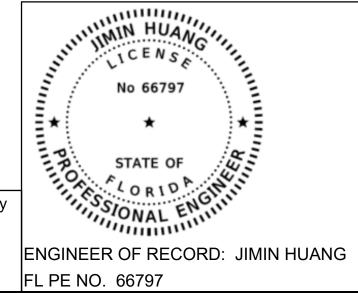
### PREASSEMBLED DECK SEAL (ACMASEAL OR APPROVED -

CONTRACTOR AND THE ENGINEER IS REQUIRED. IF CONDITIONS DIFFERING FROM THOSE IDENTIFIED IN THE INSPECTION REPORT AND DETAILS PROVIDED IN THE

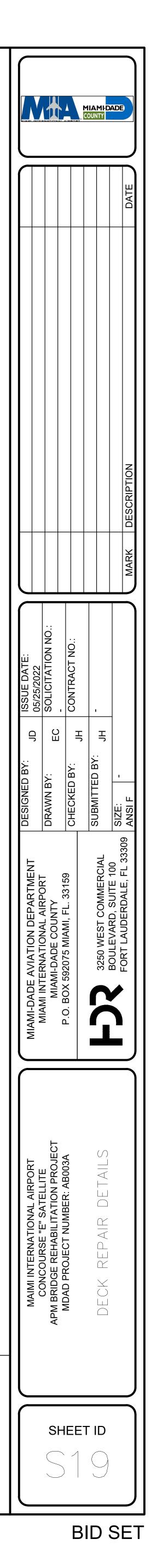
JOINT AND SEALER MATERIALS, REPAIR DETAILS AND PROCEDURE, NEW JOINT SUPPORT DOCUMENTS. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A



(WALKWAY OR ROADBED SLABS)



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	NOT	ES FOR BOLTED STEEL ANGLE REPAIR:
	1.	TEMPORALLY SUPPORT THE CROSS GIRDER WITH CON METHOD.
	2.	REMOVE ALL THE BOLTS ON THE DAMAGED ANGLE.
	3.	CLEAN THE CONNECTION.
	4.	INSTALL REPLACEMENT ANGLE WITH REPLACEMENT BO ANGLE AND BOLTS SHALL MATCH THE SIZES OF THE EX PRIOR TO THE REPAIR.
	5.	PAINT THE REPLACEMENT ANGLE AND BOLTS WITH A H AND WITH A COLOR MATCHING THE EXISTING STEEL ST SPECIFICATIONS.
	NOT	ES FOR WELDED STEEL ANGLE REPAIR:
	1.	TEMPORALLY SUPPORT THE CROSS GIRDER AND BRAC CONTRACTOR' MEANS AND METHOD.
	2.	REMOVE THE WELDS ON THE DAMAGED ANGLE.
	3.	CLEAN THE CONNECTION ESPECIALLY FOR WELDING A
	4.	FIELD WELD REPLACEMENT ANGLE WITH WELD SIZE AN MATCHING EXISTING CONDITION PRIOR TO THE REPAIR
	5.	PAINT THE REPLACEMENT ANGLE WITH A HIGH-PERFOR COLOR MATCHING THE EXISTING STEEL STRUCTURE BA SPECIFICATIONS.
	NOT	ES FOR STEEL MEMBER REPAIR
	1.	THE CONTRACTOR SHALL CONDUCT A SURVEY ON THE DEFECTS ON STRUCTURAL STEEL. NOTIFY THE ENGINE MEMBERS NEED REPAIR AND NOT COVERED IN THE INS STRUCTURAL MEMBERS SHALL BE REPLACED WITH NE GREATER STRUCTURAL CAPACITIES. RELATED COSTS

		TABLE OF STEEL
ITRACTOR' MEANS AND	SUPPORT NO.	
	SPAN 4	CROSS GIRDER 6 AT CONNECTION T FRACTURE 6" LONG X 1/32" WIDE V OF THE ANGLE.

5

PIER 6

# ENT BOLTS. THE REPLACEMENT THE EXISTING ANGLE AND BOLTS

4

## TH A HIGH-PERFORMANCE PAINT EEL STRUCTURE BASED ON FDOT

D BRACE MEMBER WITH

DING AREA.

SIZE AND WELD LENGTH REPAIR.

ERFORMANCE PAINT AND WITH A URE BASED ON FDOT

ON THE EXISTING BRIDGE TO IDENTIFY ANY NGINEER FOR ADDITIONAL STRUCTURAL HE INSPECTION REPORT. DAMAGED TH NEW MEMBERS WITH EQUIVALENT OR OSTS SHALL BE INCLUDED IN THE BID PRICE. EL COMPONENT DEFICIENCIES

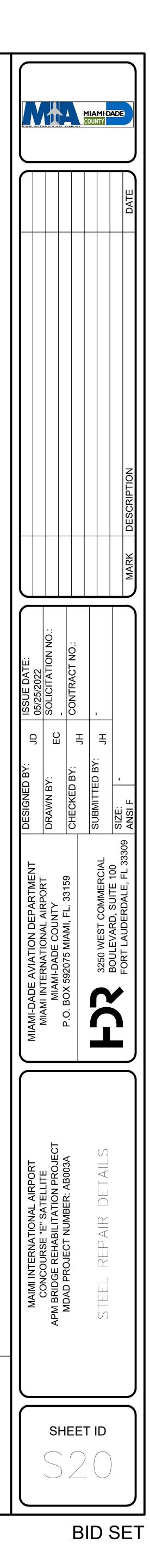
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LOCATION AND DESCRIPTION

NTO GIRDER 1, THE WEST ANGLE EXHIBITS A VERTICAL CRACK / E WITH CORROSION BLEED-OUT, EMANATING FROM THE BOTTOM

AT GIRDER 1, CROSS BRACING CONNECTING ANGLE IS DETACHED ALONG ITS FULL HEIGHT (5") AND FULL LENGTH (12"), CREATING A GAP 1/2" AT THE BOTTOM.

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G	NO	TES FOR DELAMINATION OR SPALL REPAIR:
	1.	PRIOR TO REPAIR, VISUAL INSPECTION OF THE SUBSTRUCTURE BY T CONDITIONS DIFFERING FROM THOSE IDENTIFIED IN THE INSPECTION ENCOUNTERED, NOTIFY THE ENGINEER IN ACCORDANCE WITH THE S
	2.	TEMPORARILY UNINSTALL ANY UTILITIES MOUNTED ON THE DAMAGE THE REPAIR. AVOID ANY DAMAGE OF THE UTILITIES SUCH AS CONDU
F	3.	ALL SURFACES TO BE REPAIRED MUST BE CLEAN, SOUND AND FREE GREASE. REMOVE DUST, RESIDUE, MARINE GROWTH, LAITANCE, CUP PARTICLES AND OTHER BOND INHIBITING MATERIALS FROM THE SUR BEEN SATURATED WITH OIL OR GREASE TO SOUND NON-CONTAMINA TRIMMED OR VENTED. IF AREAS BECOME CONTAMINATED AFTER INIT APPLY THE REPAIR MATERIAL.
	4.	CONTRACTOR SHALL USE EXTREME CAUTION NOT TO DAMAGE EXIST REINFORCING STEEL IS DAMAGED, THE CONTRACTOR SHALL NOTIFY APPLICABLE REPAIR. ANY REINFORCING STEEL IS DAMAGED BY THE COUNTY. REMAINING REINFORCING STEEL MUST DISPLAY ACCEPTAB LOST OR DAMAGED, ADDITIONAL REINFORCING STEEL SHALL BE EXP REACHED. DAMAGED EXISTING EPOXY COATING NEEDS BE RESTORE
	5.	PROVIDE AN AGGREGATE-FRACTURED SURFACE WITH AN APPROXIM SCRABBLER OR OTHER APPROPRIATE MEANS AS NECESSARY.
Е	6.	REMOVE CONCRETE FOR SPALLS BY SAW CUTTING AROUND SPALLS BY MEDIA BLASTING OR OTHER METHOD ACCEPTABLE TO THE ENGIN TEST SECTION PRIOR TO REMOVING THE DETERIORATED CONCRETE
	7.	IF THE EXISTING REINFORCEMENT HAS LOST MORE THAN 20% OF ITS SHALL BE DRILLED AND EPOXIED WITH AN EMBEDDED LENGTH AND/C SHALL ANY REBAR BE PLACED WITH A COVER LESS THAN EXISTING C
	8.	IF MORE THAN HALF OF THE PERIMETER OF A REINFORCING BAR IS E ADDITIONAL SOUND CONCRETE TO PROVIDE A MINIMUM OF 1" CLEAR REMOVE ANY CORROSION FROM EXPOSED REINFORCING STEEL.
D	9.	PRIOR TO APPLYING REPAIR MATERIAL, WET EXPOSED CONCRETE SU SHALL BE WATER SATURATED, SURFACE DRY, APPLY AN APPROVED
	10.	PLACE FORM WORK. FORM WORK MAY BE SUPPORTED BY STAINLESS INSERTS WILL BE LOCATED IN SOUND CONCRETE AND MAY REMAIN II BE RECESSED AND PATCHED.
	11.	PLACEMENT OF FORMS AND POURING SHALL BE COMPLETED AS SOC ANY OTHER CONTAMINATING SITUATION OCCURS (72 HOURS MAX.).
	12.	THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE T WITH LATEX MODIFIED PORTLAND CEMENT MORTAR/CONCRETE. PLA MORTAR/CONCRETE IN ACCORDANCE WITH THE MANUFACTURE'S RE
С	13.	FOR SPALLS IN WHICH FORMWORK IS NOT NEEDED, THE REPAIR MAT MATCH THE ORIGINAL SECTION. DEFECTS IN THE BASE CONCRETE SU CORROSION, ETC. MUST BE REMOVED.
	14.	CURE PER TECHNICAL SPECIAL PROVISIONS OR CURE AT MANUFACT
	15.	WHEN SURFACE TO BE REPAIRED EXCEEDS 25% OF THE ELEMENT, R
	16.	IRREGULAR SHAPE OF BOUNDARY OF LOOSE AND/OR DELAMINATED RECTANGULAR SHAPE OR A COMBINATION OF RECTANGULAR SHAPE
	17.	IF APPLICABLE, MOUNT UTILITIES BACK TO CONCRETE SURFACE AFT
В		
А		

THE CONTRACTOR AND THE ENGINEER IS REQUIRED. IF ON REPORT AND DETAILS PROVIDED IN THE PLANS ARE SPECIFICATIONS.

ED CONCRETE SURFACE IF EXISTED AND IN CONFLICT WITH UITS, PULL BOX, JUNCTION BOX, ETC.

E OF CHLORIDE CONTAMINATED MOISTURE, OIL AND URING COMPOUNDS, WAXES, IMPREGNATION, FOREIGN RFACE BY MEDIA BLASTING. CHIP OFF AREAS THAT HAVE NATED CONCRETE. AREAS THAT MAY TRAP AIR ARE TO BE IITIAL CLEANING, THEY MUST BE RE-CLEANED PRIOR TO

STING REINFORCING STEEL. REINFORCING STEEL.IF ANY Y THE ENGINEER FOR ADDITIONAL INSTRUCTION ON THE E CONTRACTOR IS TO BE REPAIRED AT NO COST TO THE ABLE BONDING WITH EXISTING CONCRETE. IF BONDING IS (POSED UNTIL BONDED UNDAMAGED REINFORCING STEEL IS ED.

IMATE SURFACE PROFILE AMPLITUDE OF  $\frac{1}{8}$ " BY USE OF

S (<sup>1</sup>/<sub>2</sub>" MIN. TO 1" MAX). ACHIEVE REMAINING REMOVAL DEPTH INEER. PREPARE A DETERIORATED CONCRETE REMOVAL FE FOR REVIEW AND APPROVAL BY THE ENGINEER.

TS CROSS SECTION, A NEW BAR OF EQUAL SIZE (DIAMETER) OR LAP SPLICE AS INDICATED IN THESE PLANS. IN NO CASE COVER.

EXPOSED OR THE BOND AROUND THE BAR IS BROKEN, CHIP ARANCE AROUND EXISTING REINFORCING STEEL AND

SURFACES WITH CLEAN, POTABLE WATER. SUBSTRATE BONDING AGENT TO THE EXPOSED CONCRETE SURFACES.

SS STEEL INSERTS WHERE REQUIRED. STAINLESS STEEL IN PLACE. STAINLESS STEEL INSERTS LEFT IN PLACE SHALL

DON AS IS PRACTICAL AFTER MEDIA BLASTING AND BEFORE

TECHNICAL PROVISIONS FOR CONCRETE RESTORATION ACE THE LATEX MODIFIED PORTLAND CEMENT RECOMMENDATIONS, TO OVERBUILD AS SHOWN IN DETAIL A.

ATERIAL CAN BE PLACED BY HAND AND TROWELED TO SUCH AS BROKEN PIECES, VOIDS, HONEYCOMB,

CTURER'S REQUIREMENTS.

REPAIR ONLY 25% OF THE ELEMENT AT A TIME.

CONCRETE IS RECOMMENDED TO BE REPAIRED WITH A ES.

TER CONCRETE REPAIR IS COMPLETE.

TABLE OF SUPPORT NO. **DELAMINATIONS A** ABUTMENT ABUTMENT 1-E 1-E DELAMINATIONS O ABUTMENT TO GIRDER 1 1-W **DELAMINATIONS O** PIER 6 OF CAP 6, EB BRIDO **DELAMINATIONS O** PIER 4 BRIDGE SPALL ON THE NW PIER 5

 $\frac{1}{2}$ " MIN. RE

LIMIT OF RE

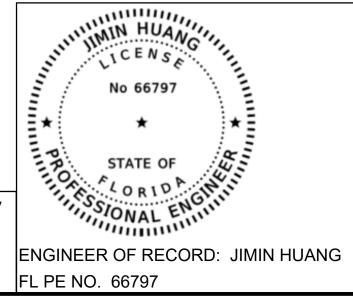
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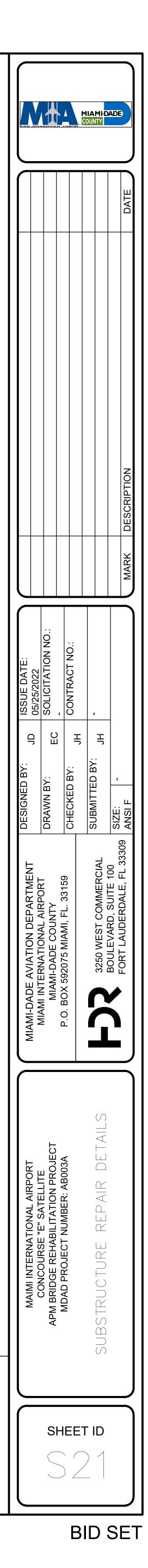
SUBSTRUCTURE DELAMINATION / SPALL DEFICIENCIES				
LOCATION	WIDTH (IN.)	HEIGHT (IN.)	DEPTH (IN.)	
AT THE TOP SECTION OF	126	42		
ON ABUTMENT 1-W ADJACENT	16	6		
ON THE EAST AND WEST FACE OGE	6	17		
ON THE EAST FACE OF CAP 4, EB	12	13		
V QUADRANT OF COLUMN 5-W	8	9	1/2	

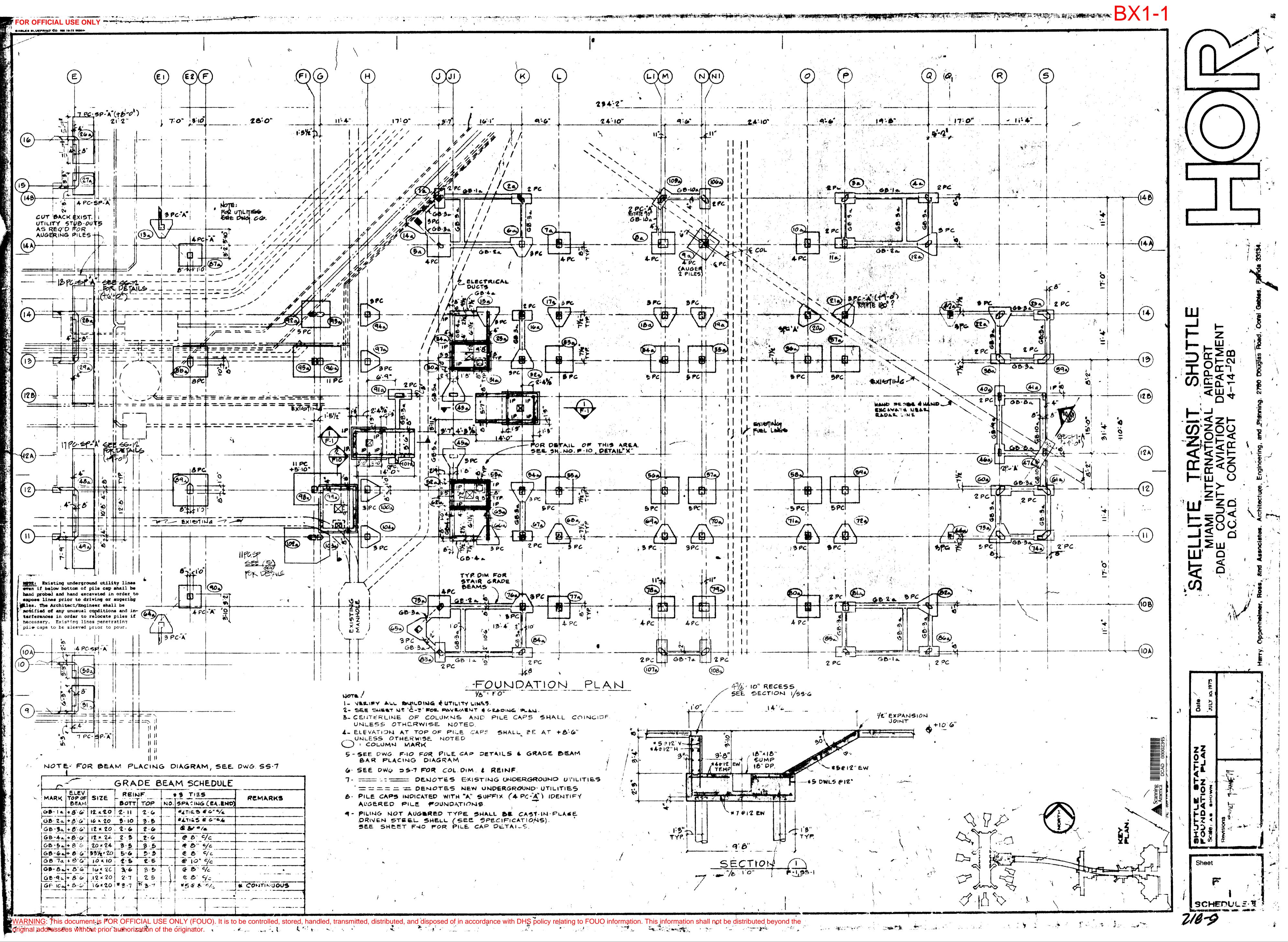
REMOVAL	SAWCU 1" M	JT <u>1</u> AX.	" MIN. (TYP.)		
1" MIN; 3"MAX (TYP.)	LIMIT OF REMOVAL			ΙΝΑΤΟΝ	SPALI
EMOVAL	_			OR CA Surfa	

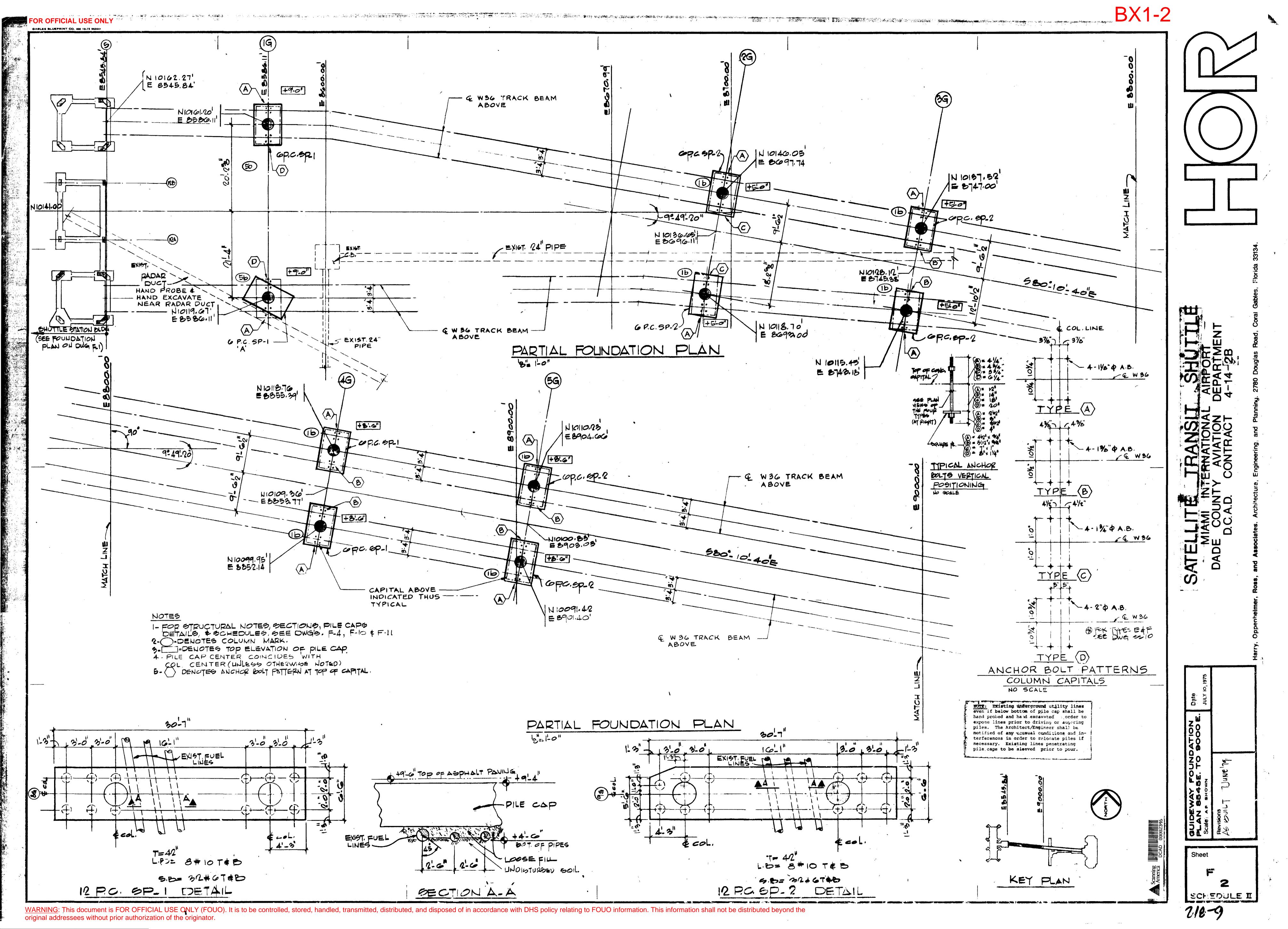
<u>Detail a</u> (REPAIR WITH DELAMINATIONS OR SPALLS)

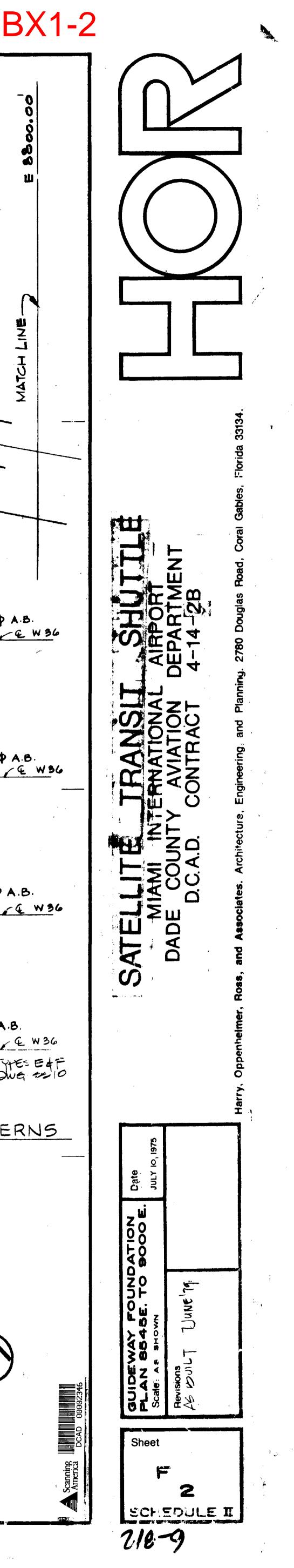


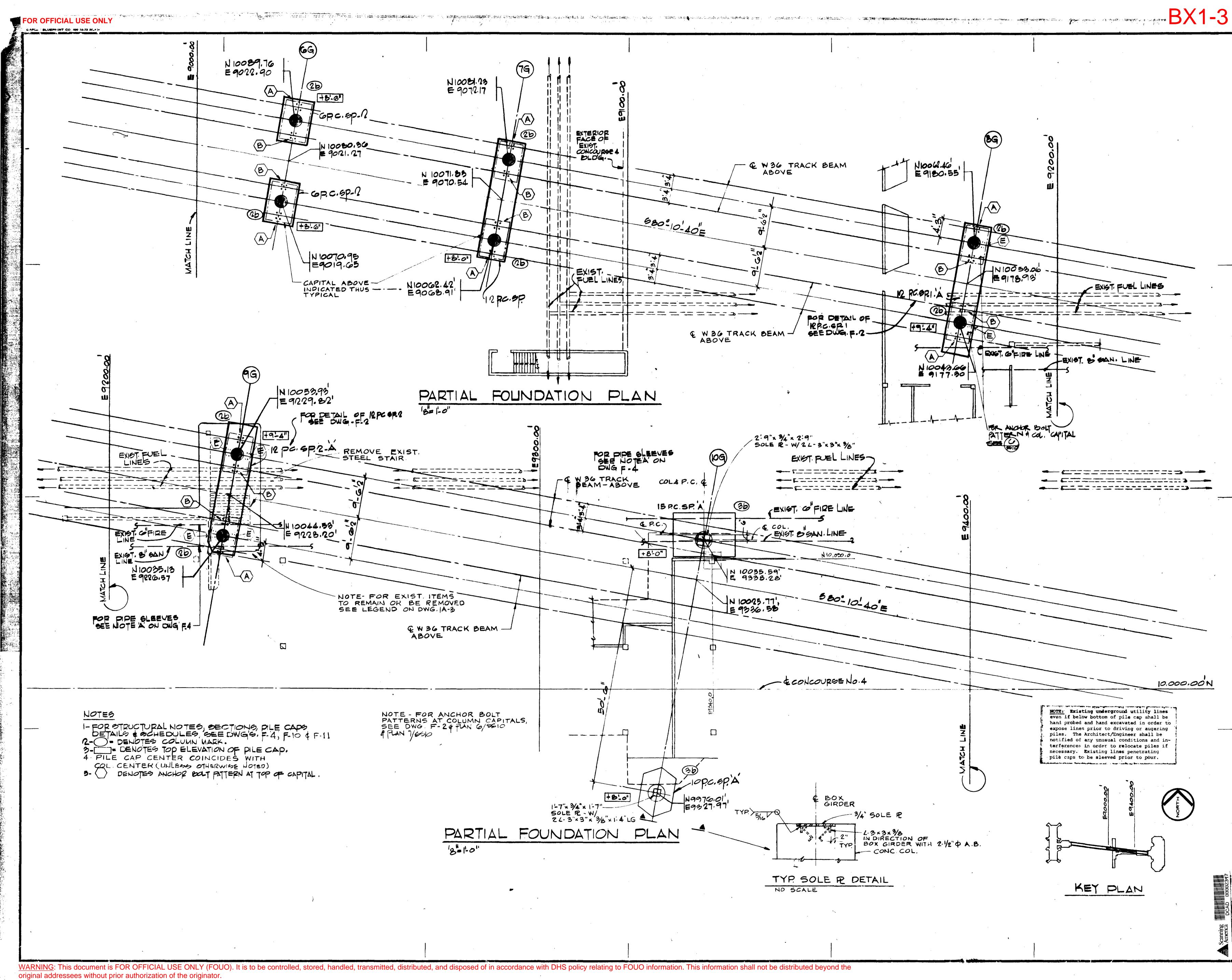
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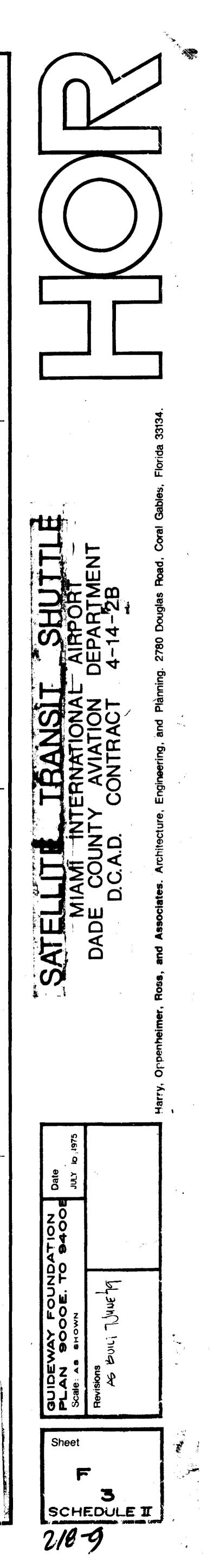


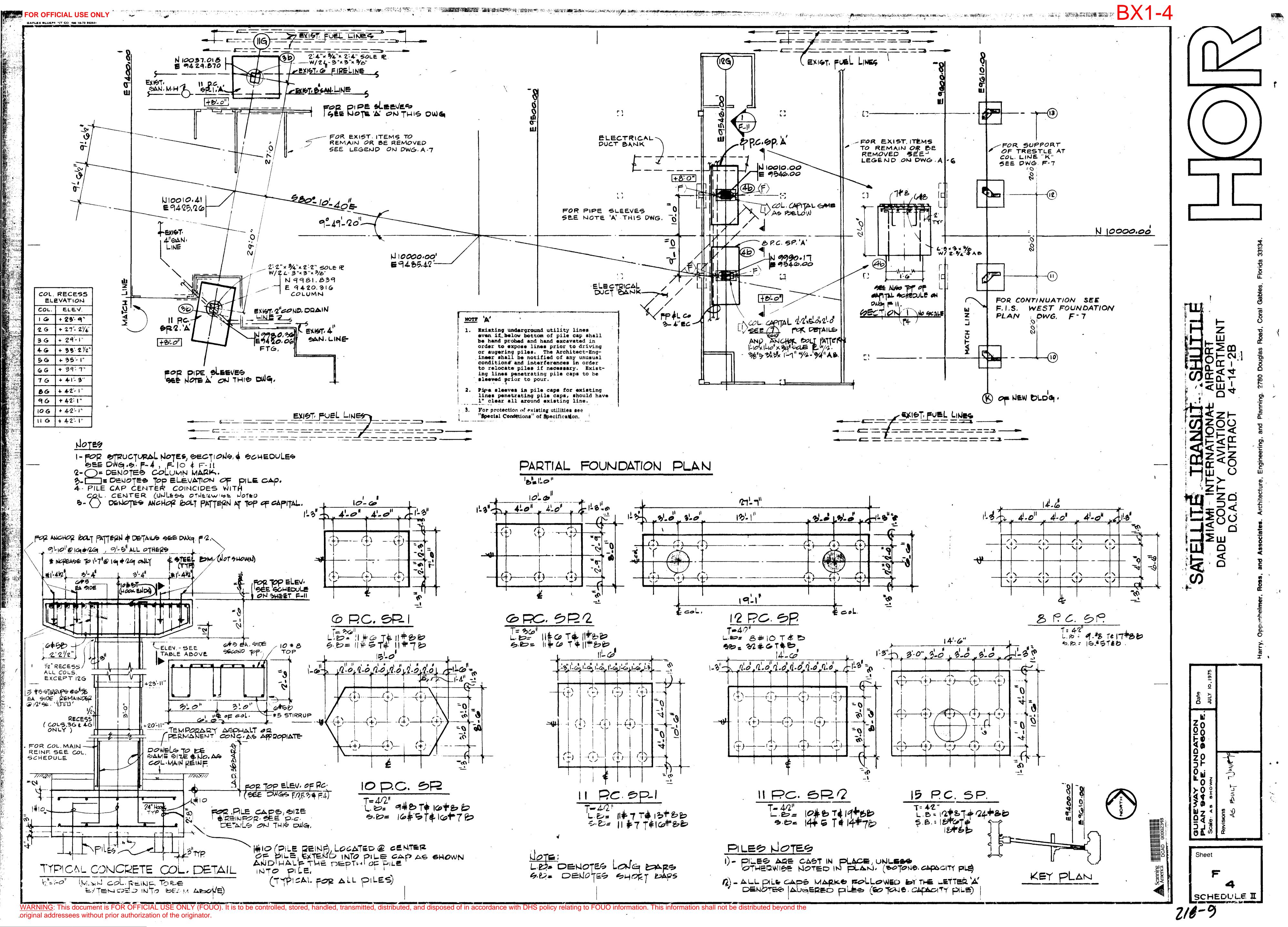


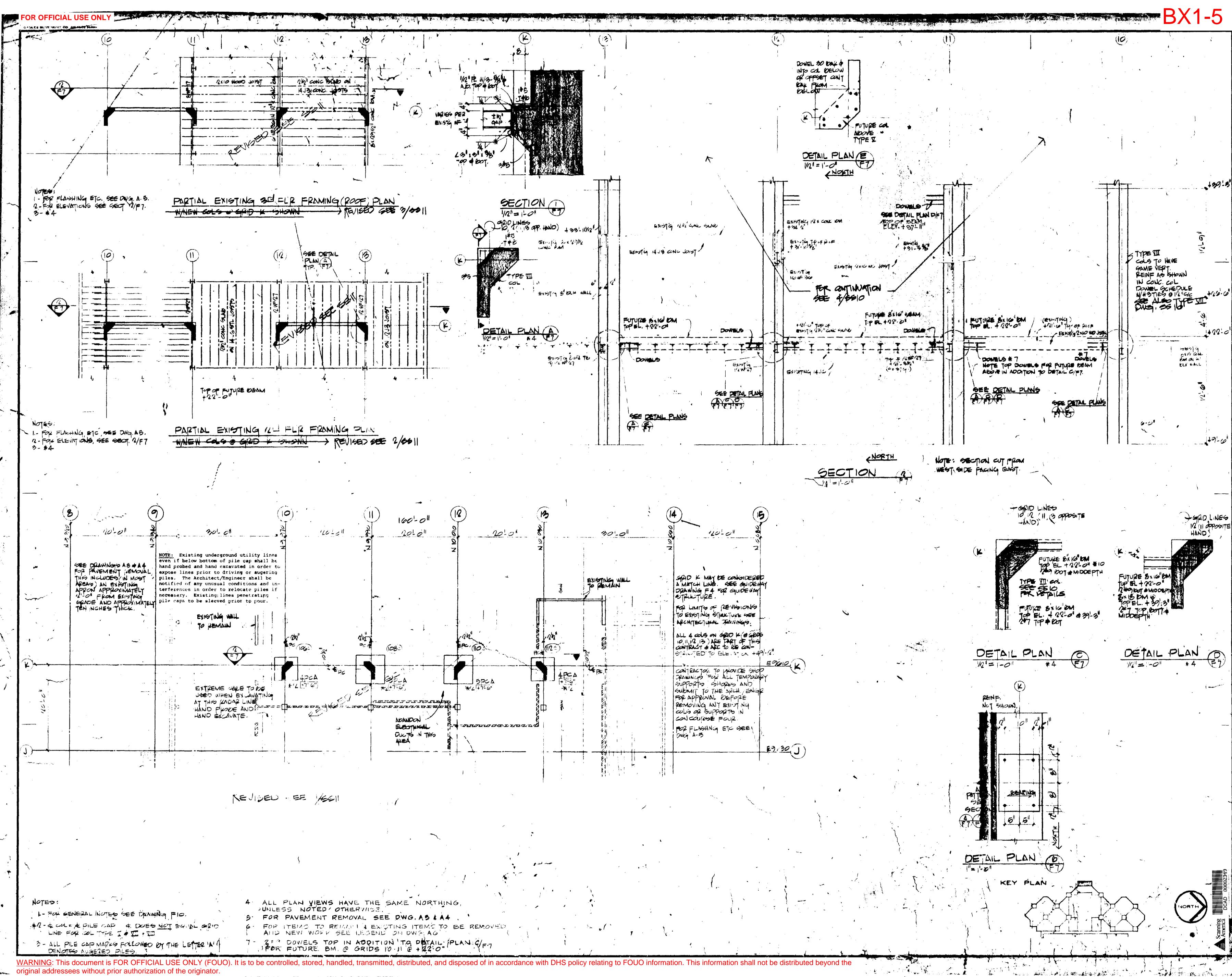


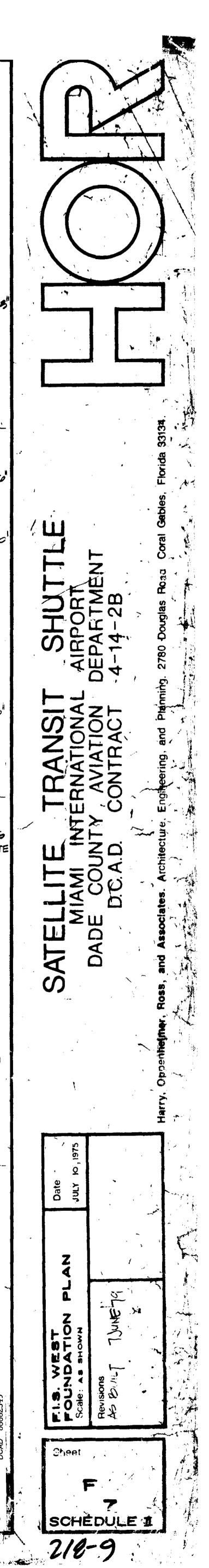


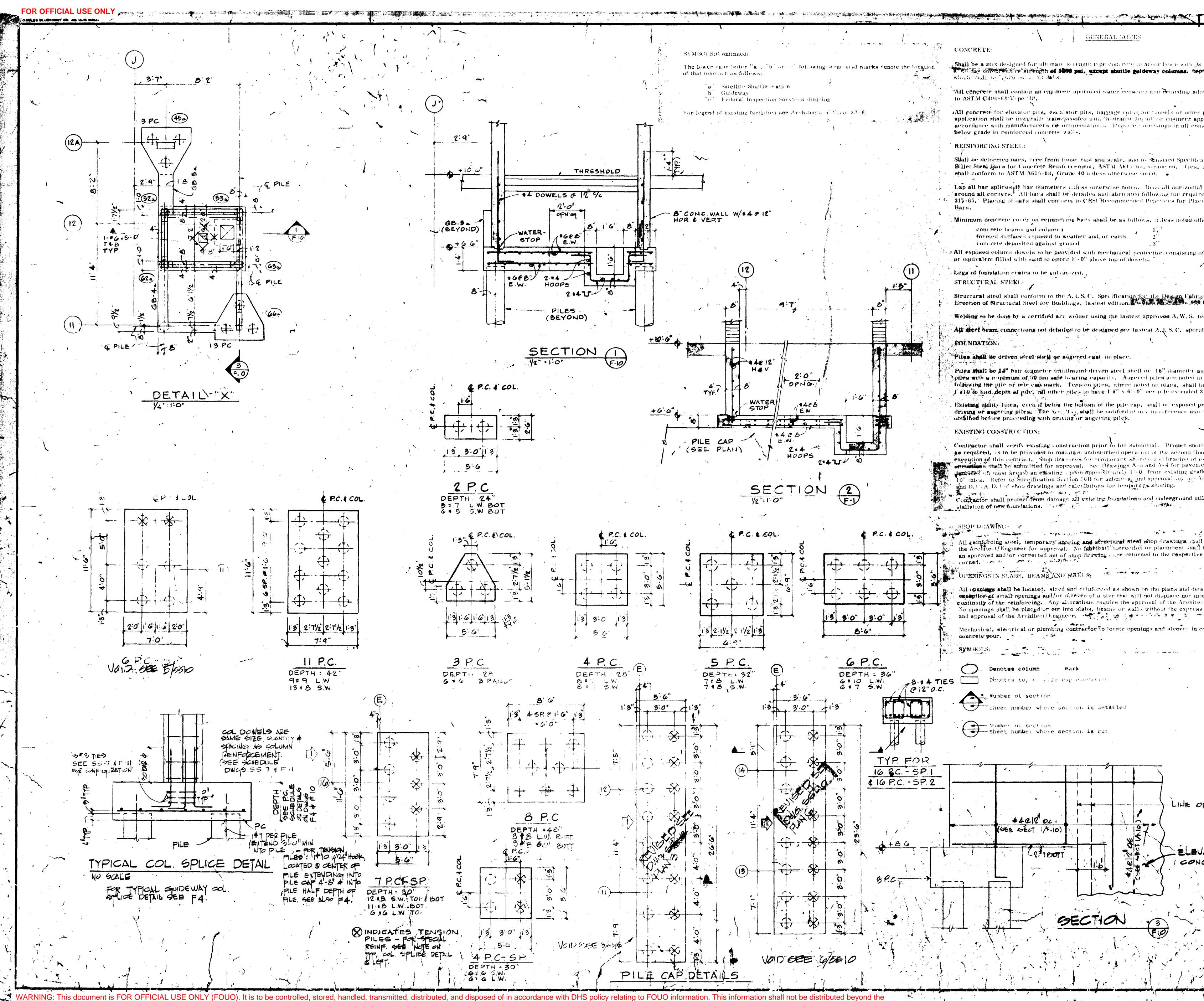












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	<b>x</b>
/	GUNERAL GOULS

### CONCRETE

冒

P.C. & COL.

C12" O.C.

-----

C. T. LANGALAN

TYP. FOR

16 RC. - 5P.1

\$ 16 P.C. - SP.2

+86

SPCT

8-6"

6 P.C.

Shall be a mix designed for ultimate strength type concrete to accordance with ACL 64-72 to aclaete. The day compressive strength of 3000 pai, except shuttle guideway columns, capitals and youd beday which shall be 7,000 bis at 20 Mays.

"All concrete shall contain an engineer approved water reducing and retarding admission conforming to ASTM C494-68'T pe 'D'.

All coherete for elevator pits, escalator pits, baggage convector tunnels or other pits of Aurilar application shall be integrally waterproofed with "hydratite liq (id) on engineer approved equal inaccordance with manufacturers recommendations. Provide that ensiops in all construction joints. below grade in reinforced concrete walls.

REINFORCING STEEL:

Shall be deformed bars, free from hoose rust and scale, and to Standard Specifications for Deformed Billet Steel Bars for Concrete Reinfercement, ASTM A615-63, Grade 60. Ties, anchors, starrups shall conform to ASTM A615-68, Gruce 40 unless otherwise poted.

Lap all bar splices 36 bar diameters unless otherwise noted. Bend all horizontal wall bars 12" around all corners.<sup>‡</sup> All bars shall be detailed and fabricated following the requirements of ACL \*\*. 315-65, Placing of bars shall contorm to CRSI Recommended Practices for Placing Relatoreing Bars.

Minimum concrete cover on reinforging bars shall be as follows, unless noted officewise; concrete beams and columns.

formed surfaces exposed to weather and/or earth concrete deposited against ground

All exposed column dowels to be provided with mechanical protection consisting of a 55 gallon dramor equivalent filled with sand to cover  $1^{\circ}-0^{\circ}$  above top of dowels.

legs of foundation chains to be galk amzed. STRUCTURAL STEEL:

Structural steel shall conform to the A. I. S. C. Specification for the Design Fabrication and Erection of Structural Steel for Buildings, lastest edition. See See Structural, see also specificationly

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

All seel heam connections not detailed to be designed per lastest A.J. S. C. specifications. FOUNDATION:

"Piles shall be driven steel shall or sugered east-in-place.

Piles shall be 14" Batt diameter (mulmum) driven steel shell or 16" diameter augered casi-in-place piles with a minimum of 50 for safe bearing capacity. Augered piles are noted in pla. by "A". following the pile or bile cap mark. Tension piles, where noted on plans, shall be reinforced with At \$10 to had depth of pile, "all other piles to have 1 #" x 6'-0" oer 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 Ares fing, shall be notified of any interference and his approval. obtained before proceeding with driving or augering piles.

EXISTING CONSTRUCTION:

Contractor shall verify existing construction prior to bid submittal. Proper shoring and gaving, as required, is to be provided to maintain undisturbed operation of the second floor during execution of this contract. Shop drawings for temporary shoreng and bracing of existing conarrustions shall be submitted for approval. See Drawings A-3 and A-4 for pavement removal. This standes (in most areas) an existing ( pron approximately 1'-0 from existing grade and approximately 10" thick. Refer to Specification Section 16B for submittal and approval day der Architect/Engineer and D. C. A. D. ) of shoo drawings and calculations for temporary shoring. CALL AND THE CALL AND AND 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 fabfication erection or placement shall take place until an approved and/or corrected set of shop drawing are returned to the respective parties con-

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.

- LINE OF WALL DEPOND

ELEVATOR PIT

1 CONC. WALL

FO

SYMBOLS: وأراري والجاري الجالج الأثرار الرواب سيحسر والمنششاتهم المركا أ

Denotes column ,3-# 4 TIES Denotes to, c pule dap elevation

Mumber of section

Sheet number where section is detailed

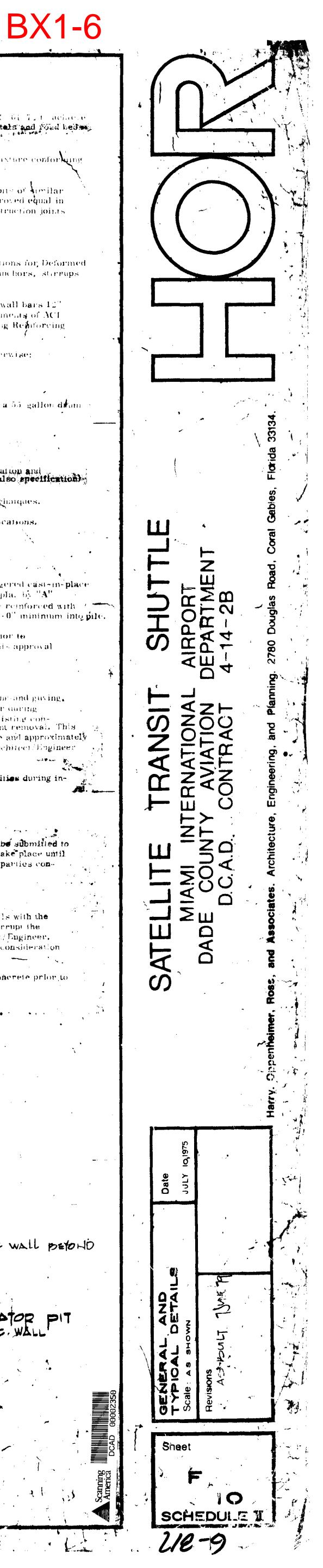
Number of section Sheet number where section is cut

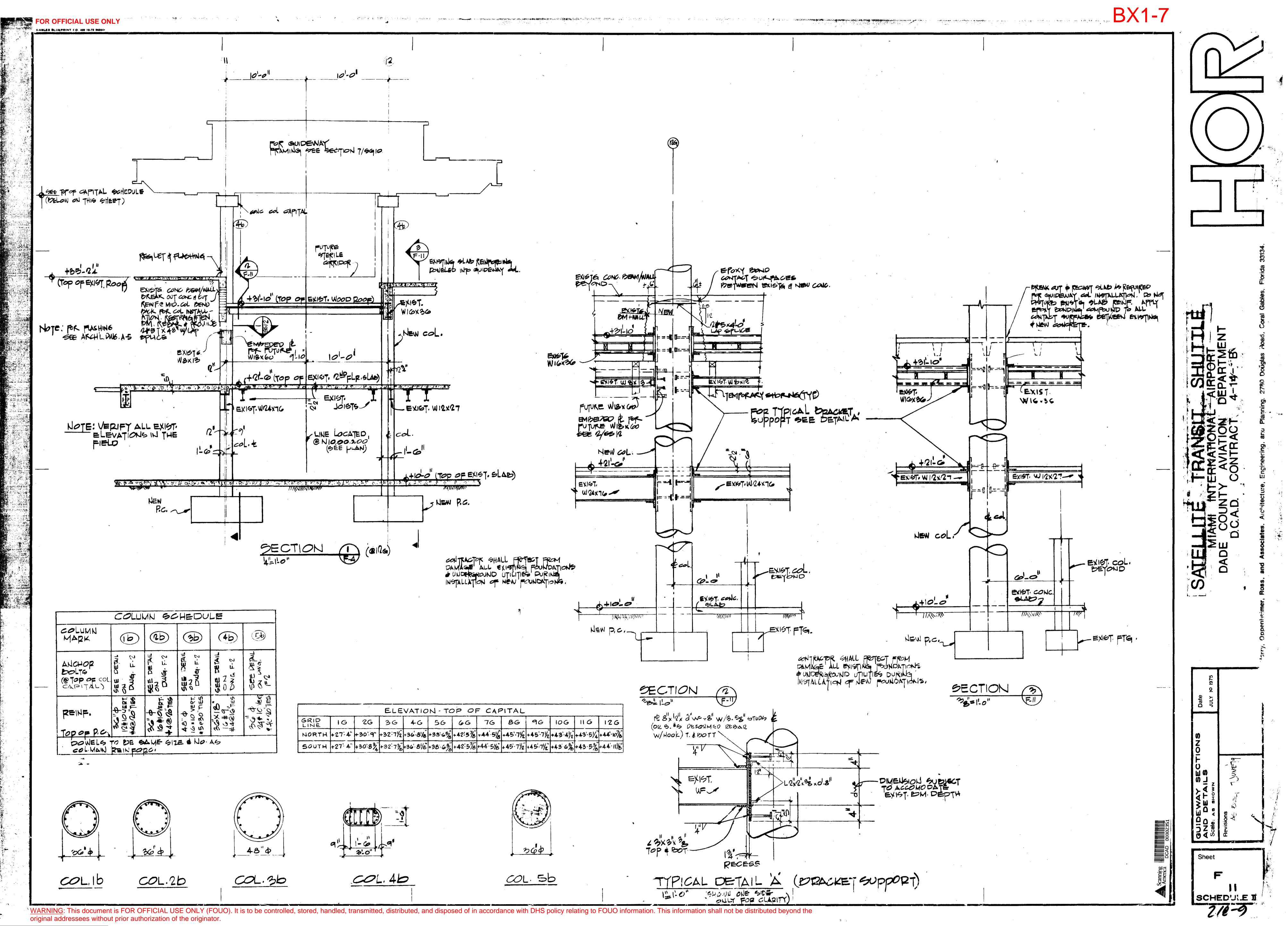
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-2. TBOIT

GECTION

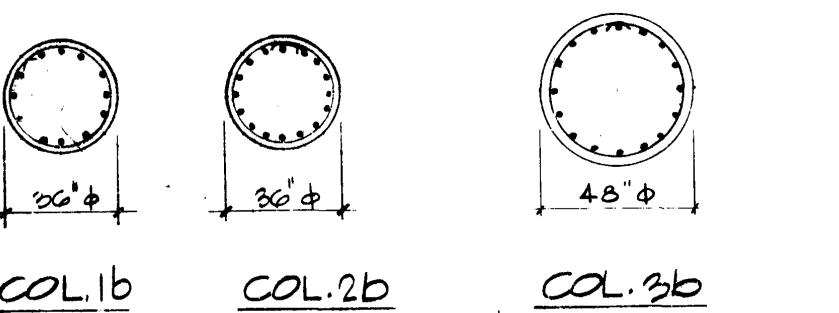
(SEE SECT 1/4-10)

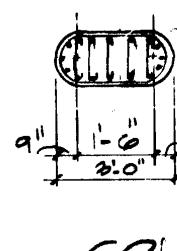




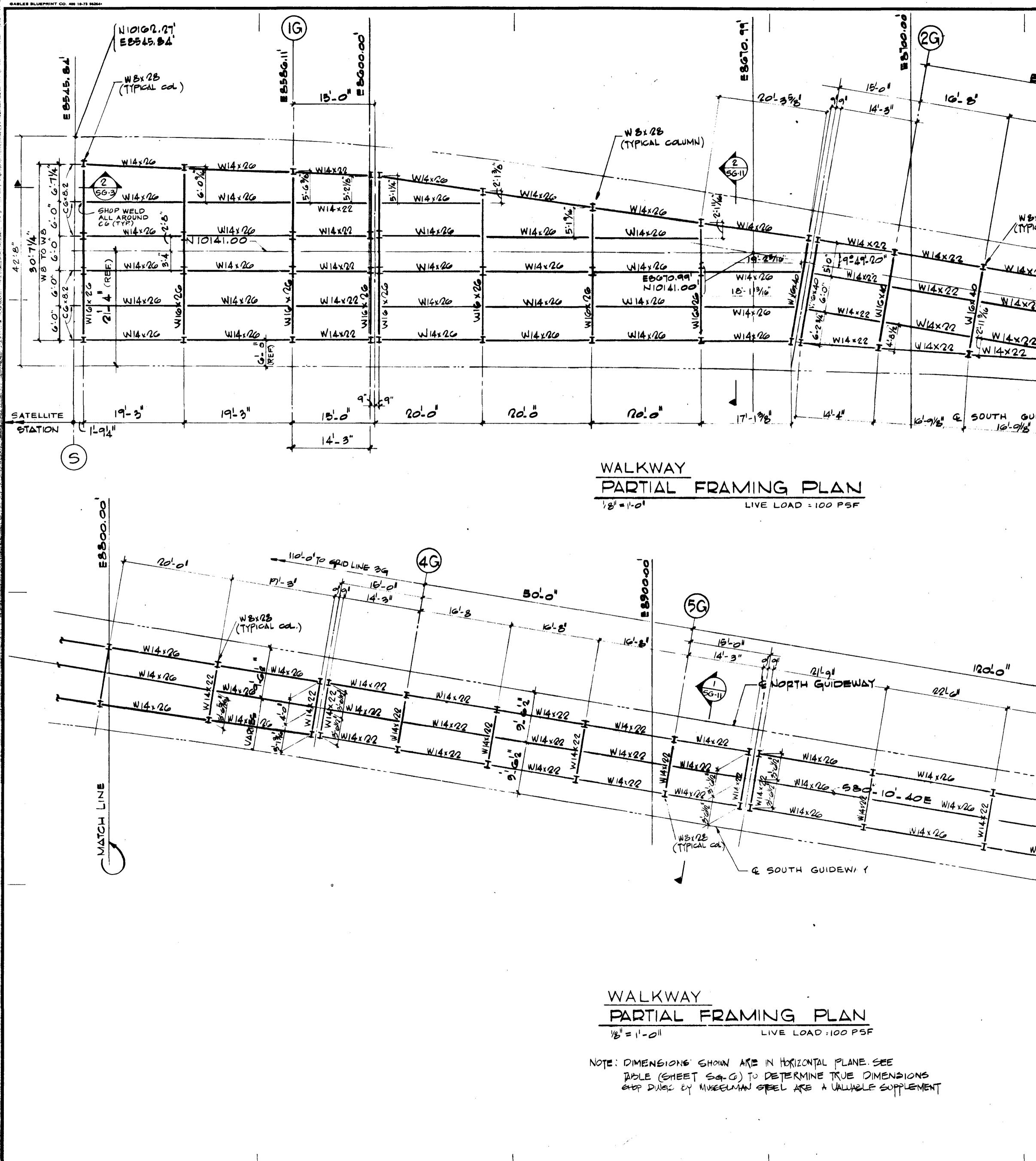
COLUMN SCHEDULE					
COLUMN MARK		(2b)	36	<b>(4b)</b>	(F)
ANCHOR DOLTG (@ TOP OF COL. CAPITAL)	SEE DETAIL ON DWG. F-2	SEE DETAIL ON DWG. F.2	SEE DERIL	<b>566 DETAIL</b> 0 N 0 NG F-2	SEE VERIL
REINF. TOD OF P.C.	36"4 12#10 VERT #40.00"TIES	36" ¢ 16#10VEPT +4@@nes	48" ¢ 16 * 10 VERT. *5030 TIES	36'X10" 16#9" #4010 TIES	36" 4 24+10 (ex) *10 0 [1ES
DOWELG TO DE GAME GIZE & NO: AG COLMAIN REINFORCO					

		`		
				<u> </u>
I	GRID	IG	2G	
	NORTH	+27'-4"	+30'9"	+2
	SOUTH	+27' 4"	+30:83	+





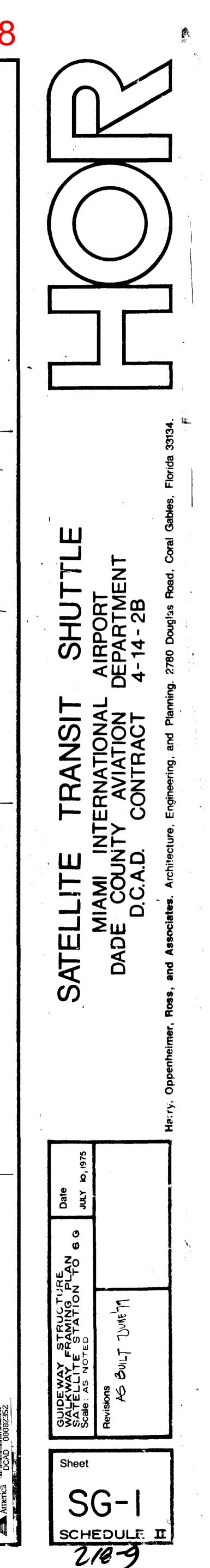
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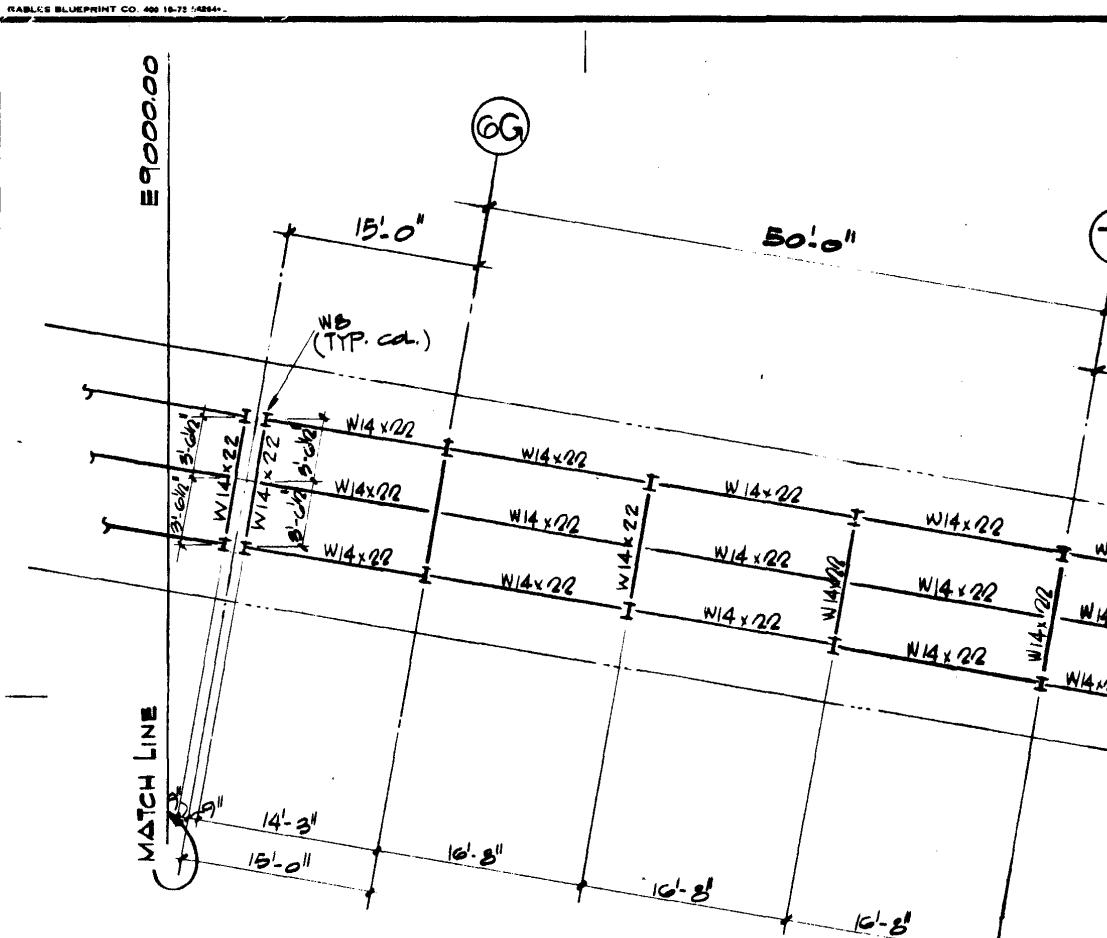
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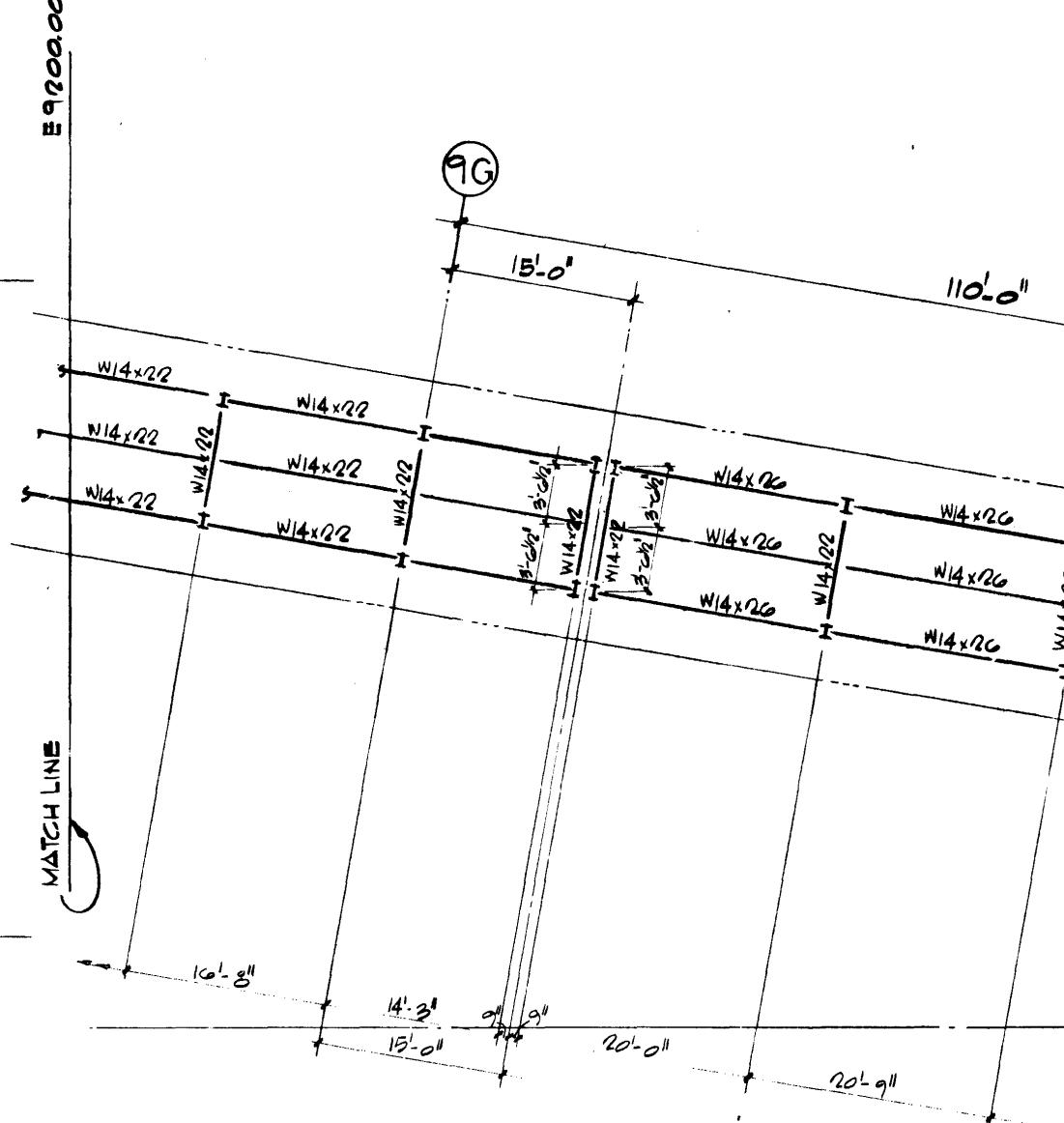
N g

**BX1-8** r a substanting to the state of the second secon N **3**G B0'-0" 16. 8 (TO GRID LINE 4G) 110:0 16.8 151-01 LE NOPTH GUIDEWAT 14-31 WBX 28 /(TYPICAL COL.) 20-01 WBX28 (TYPICAL COL.) 4×20 W14×22 NT4422 0' WILXO NI4×76 W14×22 550-10'-40"E N14×126 & SOUTH GUIDEWAY 16-948 14'-4" 66 22'-6" 21-91 14×26 14×160 W14×26 W14×26 WI4×26 W14×26 WBX 28 (TYPICAL COL.) • 22-6 21 15.0 MA 







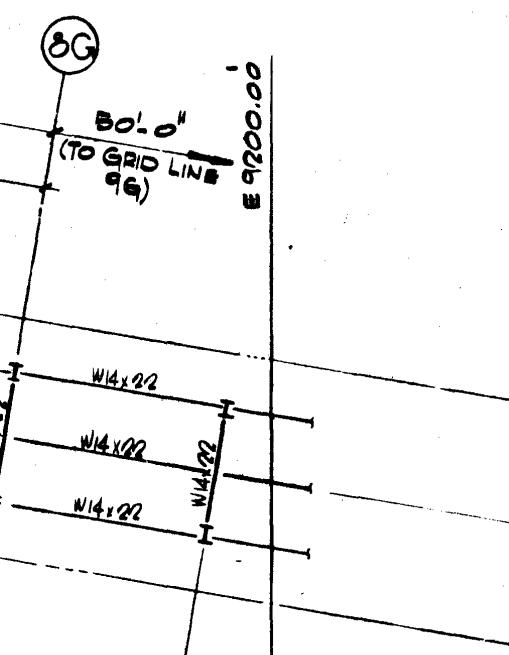


NOTE: DIMENSIONS SHOWN ARE IN HORIZUNTAL PLANE SEE TABLE (SHEET SG. 6) TO DETERMINE TRUE DIMENSIONS

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(7G) 15'-0" 110-0" ---- CNORTH GUIDEWAT -580-10-40 - WI4x22 W14x22 14-31 n'-a' 20'0" I GUIDEWAY 20'-0" di 14'- 3' 19'-31 WALKWAY PARTIAL FRAMING PLAN 15'-01 18 = 1-0 LIVE LOAD : 100 PSF (0G) & NORTH GUIDEWAT 4 12:0" × 11:3416 22: 63/6 14×26 22:63/16 WI4 XRG 1 WIAXRR W14×26 WIALDO WIAX26 - 5 80 \$ 10- 40"E 4×26= W14x20 W14×26 4×26 N14×26 LE GOUTH GUIDEWAY -NI0000.00 & EXIST. CONCOURSE NO.4 20-9" 10'-01 27/0" 11-31 12-01 12-01 22-61 WALKWAY FRAMING PLAN PARTIAL LIVE LOAD = 100 PSF 1/8 = 1-0"



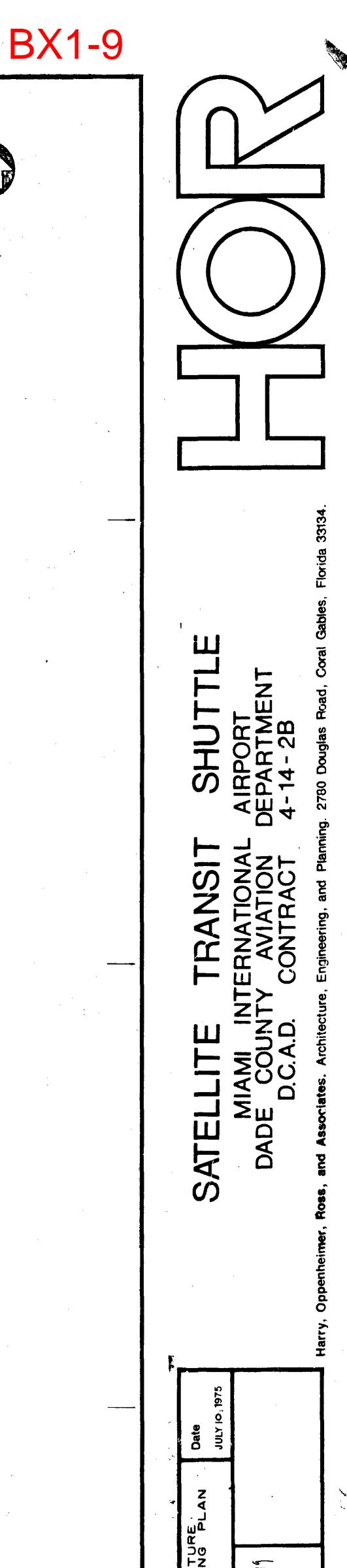


16-81

15'0"

16-8

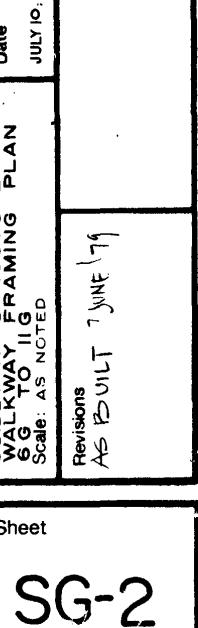
(11G) 90'0" 22:63/16 N14×26 : N14×16 W14×26 ----12 22'-6"





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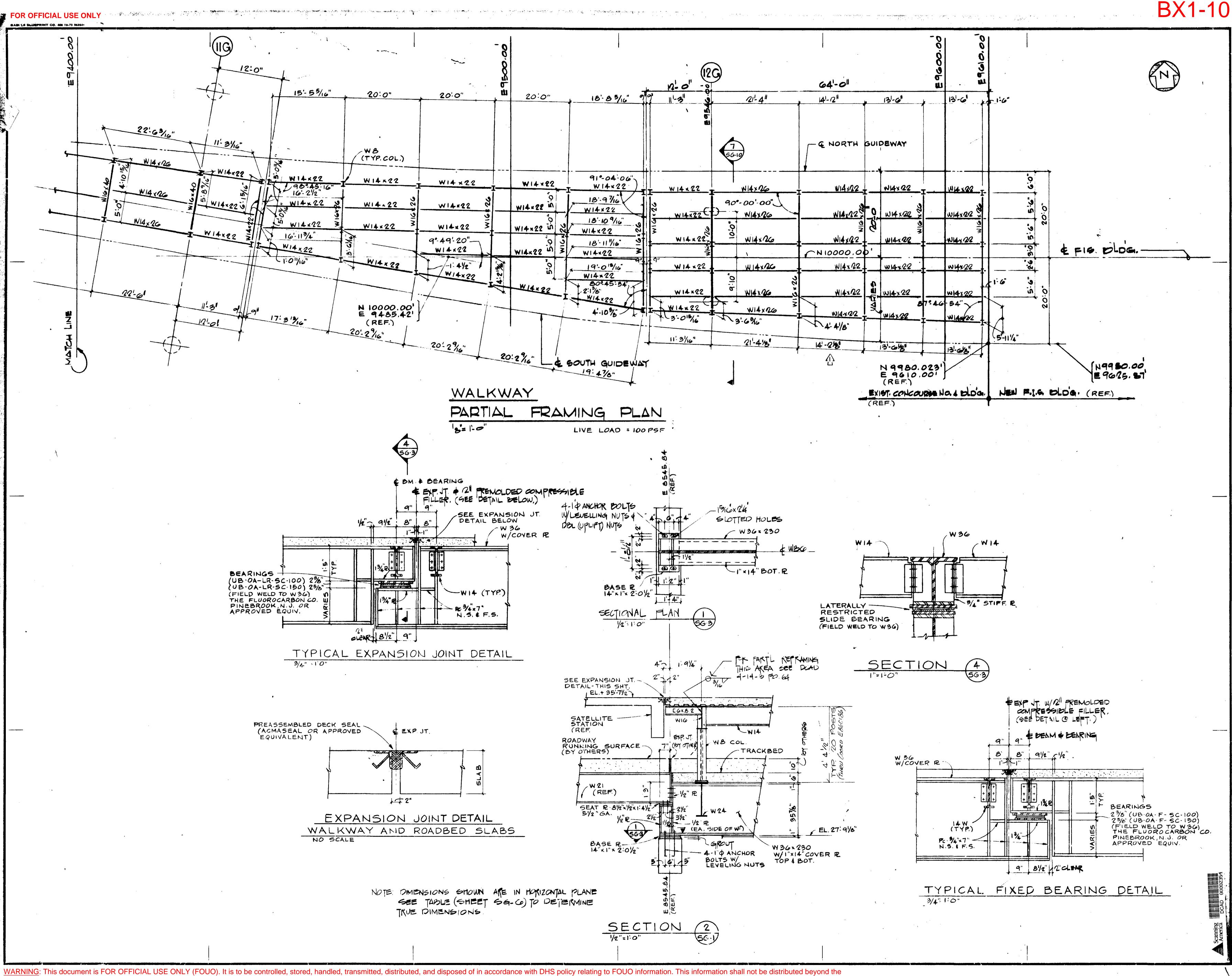
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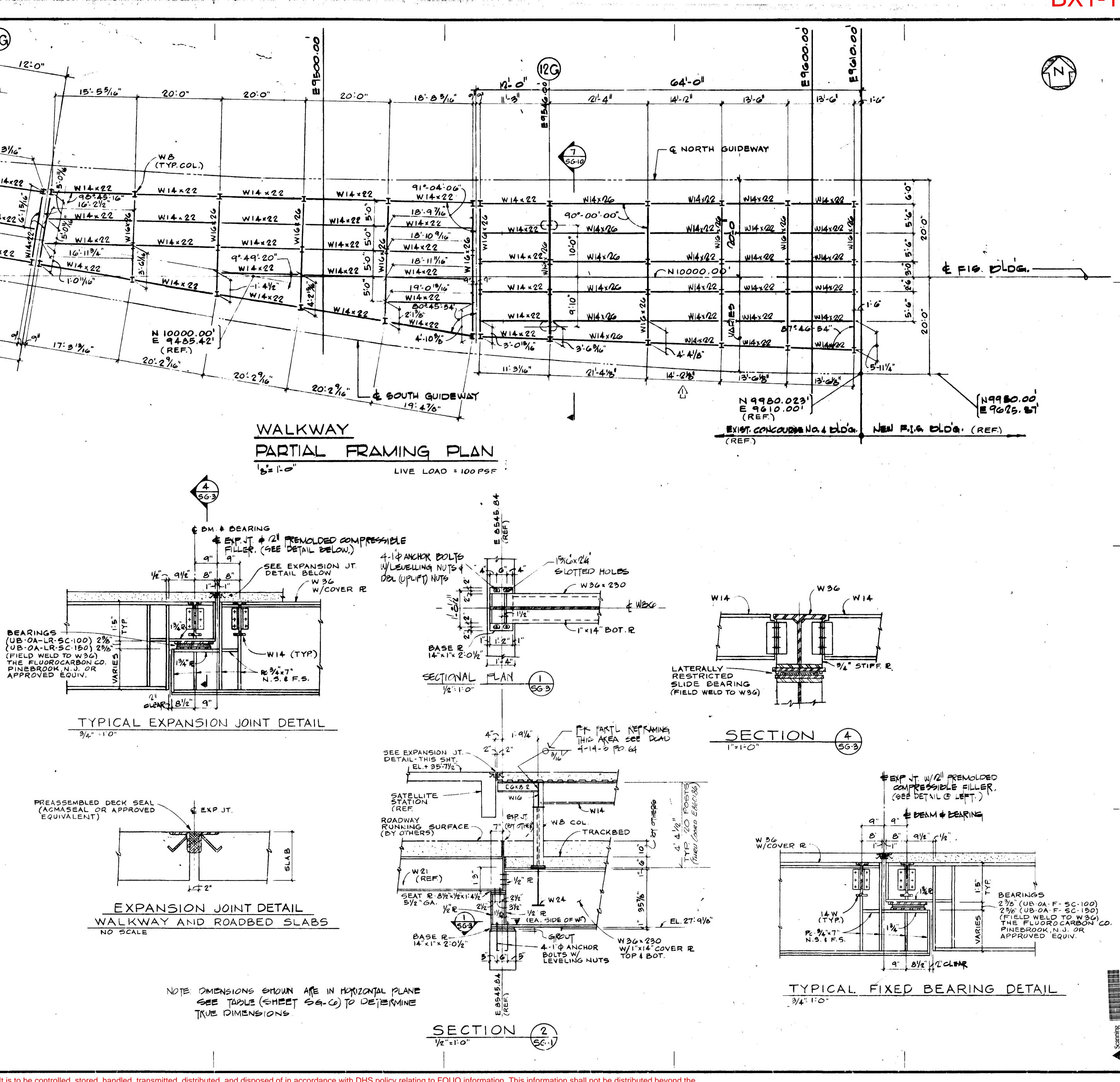


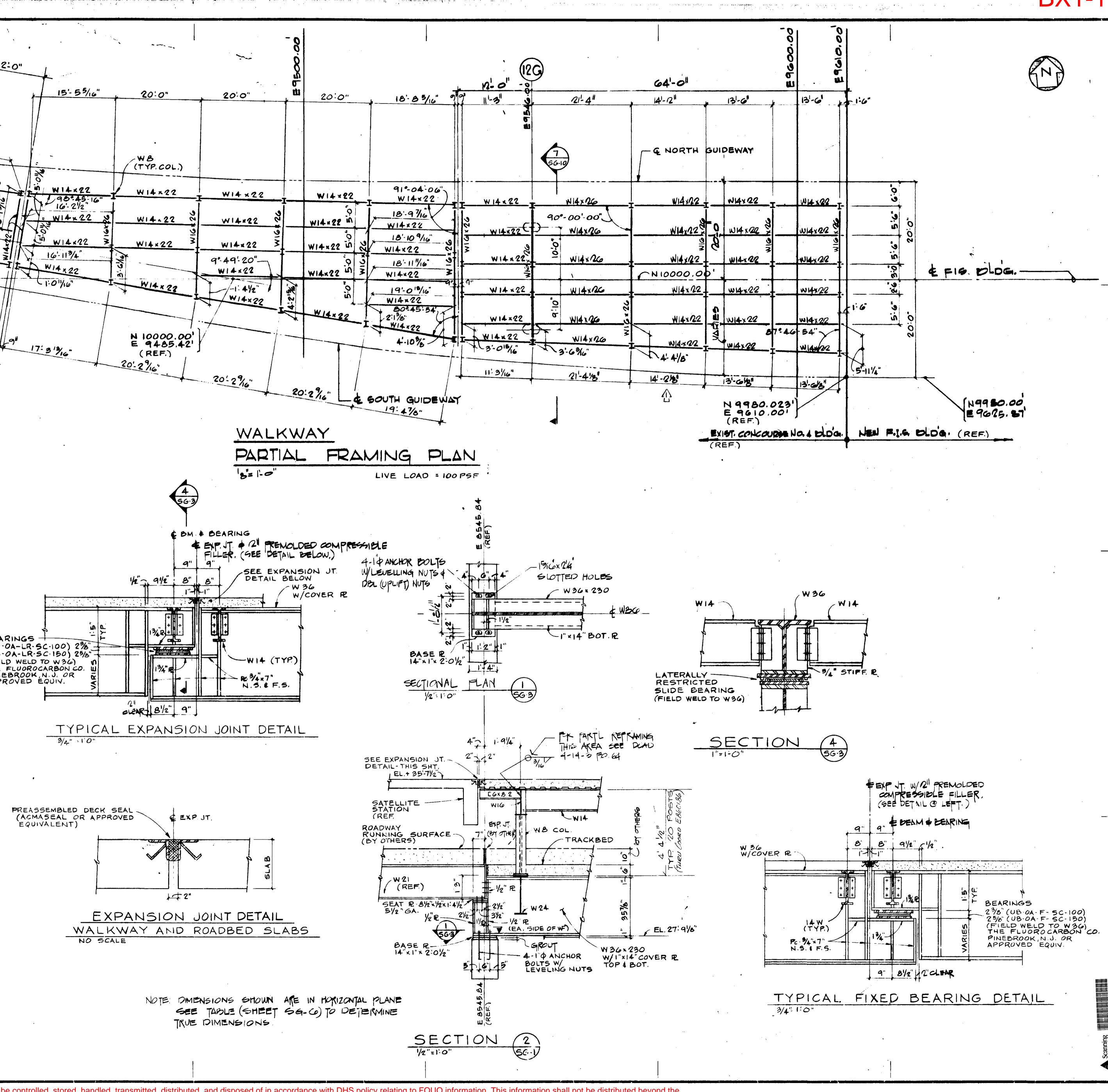
SCHEDULE I

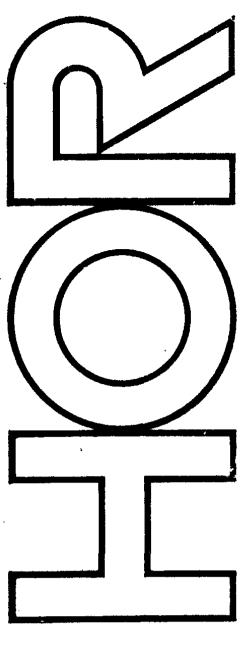
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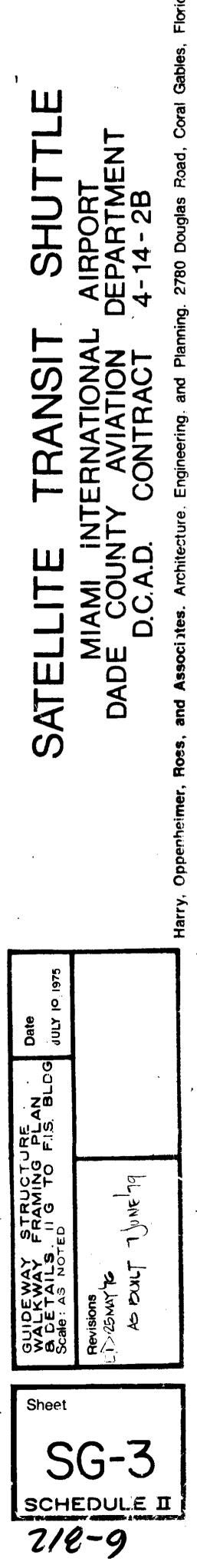
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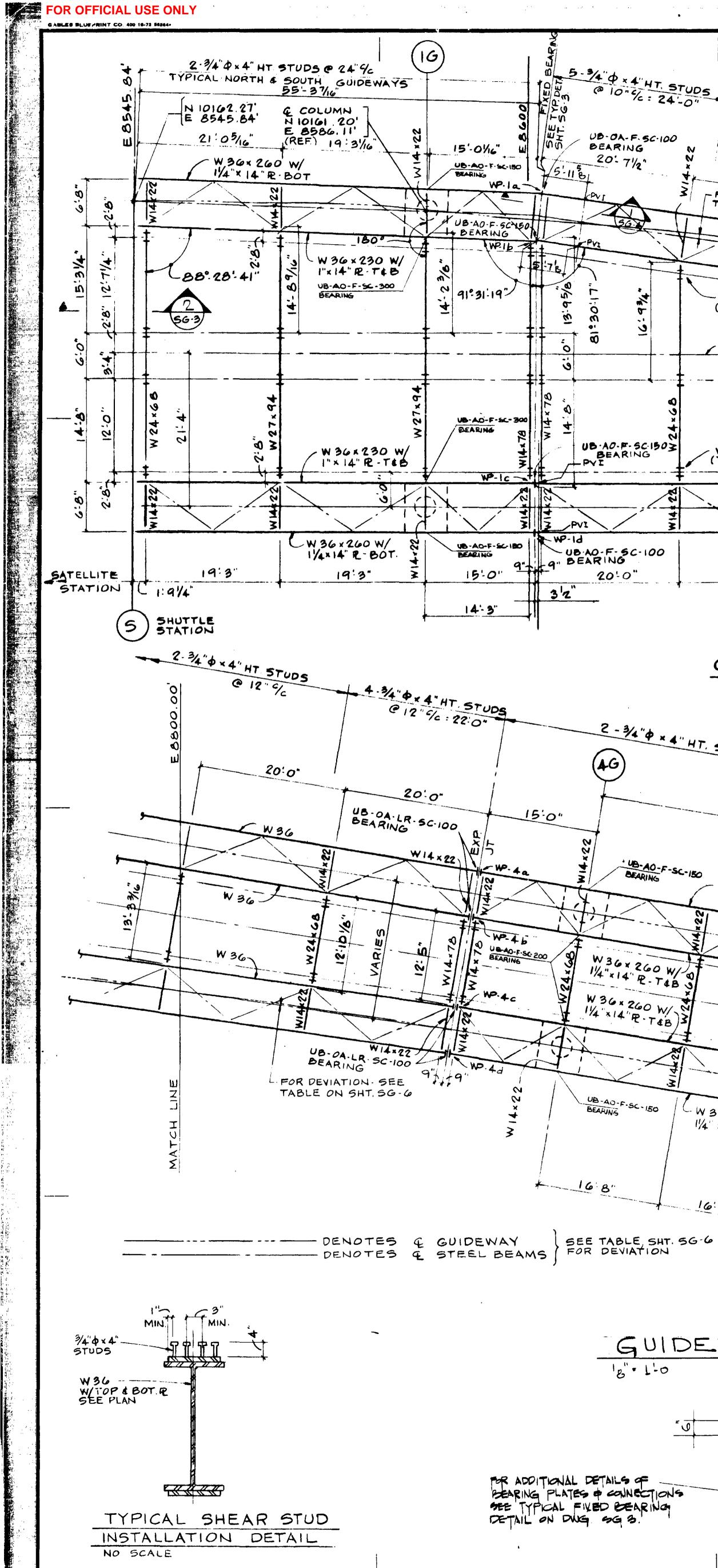












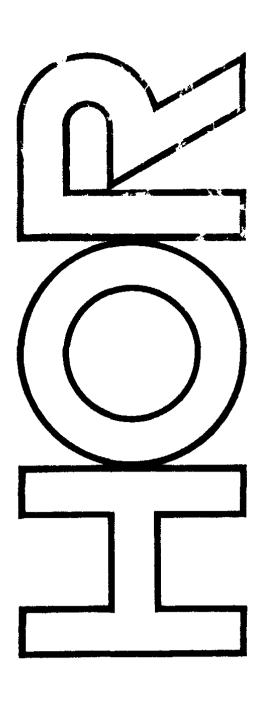
**BX1-11**  $\frac{1}{10} \frac{5 - 3/4" \phi \times 4" HT. STUDS}{@ 10" c_{c} : 24' 0"} = \frac{2 - 3/4" \phi \times 4" HT. STUDS e 10" c_{c}}{@ 10" c_{c} : 24' 0"} = \frac{5 - 3/4" \phi \times 4" HT. STUDS}{@ 10" c_{c} : 24' 0"}$ 2-3/4" \$ × 4" STUDS @ 24" % 5 4 S (2G)0 4 34" \$ X4" HT. STUDS @10" 9/2= 24:0" 16:8" @ 12" 4c = 22:0" 50:0" (3G) 15:0" 16:8" 20:27/8" TABLE ON SHT SG -G 56.11 16:8" (TO GRID LINE 4G) 20-27/5 21: 71/8 W 36 × 260 UB-DA-LR-SC-100 DEARING N 10148.54 N & NORTH GUIDEWAY E 8683.38'N W14 × 22 & STEEL | BEAMS (REF.) DEARING F- SC 150 15:0" 1 ( W36x230 W/ ) 1 ( 1"x14" R-T4B -WB (TYP) WP ZD 20:0" -W 36 × 260 Ň BEARING BEARING 9" 109" 20:0-~ N 10141.00' DEARING 90.00:00 W.Ba **%**||**%** ~ W 36 × 230 W36x230 W/ 1"x14" R-T&B E 8670.99' N 10141.00' W-36-7 1580-10-40-1 NO3 al DEARING WBX28 (TYP) -W 36x 230 W/ 17-4-5/16 W 36×230 16-91/8-7 96:05:55 -W36 x230 180 16:91/0" - +88.46-46 D 16:9% JB-OA-LR-SC-150 X-10-2c 20:0416" 1 W-36 20:0/16 W14-x 22-- W36 x 230 FW-2d UB-0A-LR-5C-100 --W36x230 -W14 x22 BEARING 14-17/5 20'-0" 20:0" 17- 5 1/16" WP.30 16-03/0 1"x 14" R-TAB 16-918 N 10119.67' E 8678.038 UB-A0-F-\$6160 19:83/8" -W36+230 (REF.) E SOUTH L-4" × 4" × \$/16 20-0416 LUB-AO-F-SC-100 BEARING GUIDEWAY BOT. FLANGE DIAGONAL BRACING-TYP, FOR DEVIATION N 10115 .35' E 8758.30' SEE TABLE ON SHT. SG-G GUIDEWAYS-PARTIAL FRAMING PLAN (REF.) 1/8"=1:0" 2-3/4" \$ × 4" HT. STUDS @ 24" 6/c MAT LINE 5-3/4"\$ × 4"HT. STUDS @ 12" " + 2-3/4"\$ × 4"HT. STUDS @ 12" 4/2 + 5-3/4"\$ × 4" HT. STUDS@ 12" 4/2 TYPICAL AT NORTH & SOUTH GUIDE WATE 50:0" (5G)BEARING W36 x 260 W/ 15:0" 1/4" × 14" R - TEB 56.11 81 E/a WP.5 a BEARING (GG)W36×260 W/ 31 11/4"×14" R - BOT. & NORTH GUIDEWAY & STEEL BEAMS J LO-AO-F-SC-200 -WB(TYP) BEARING 21 WP.56 Ші--W36 x 260 W/ (TYP) 11/4 "x 14 "R - BOT - / WP.5c W36×260 W/ 5 80°-10-40E W 36 x 260 W/ 11/4" × 14" R-T&B 1/4"× 14" R . BOT UB-AO-F-SC-150 WP.5d-9" Jg" UB-AU-F.SC-100 BEARING ft. Ń W 36 x 260 W/ 1/4" × 14" R-BOT. L-4"×4"×5/16 16:8" BOTTOM FLANGE 0 16:8" (TYPICAL) 15:0 L/2 TYP. 4 L/2 & SOUTH GUIDEWAY 4 22:6" TYP 22:6" 22:6-GUIDEWAYS - PARTIAL FRAMING PLAN 22:6" INSTALL ON STEEL POR RUNNING GUR PACES (496) 3/1 DX 4" LONG EHEAR OTUDE AS TER THE DETAIL THIS CHEET USING 2" STUDS ON 24" 00 AS DIRECTED BY FIELD R. NOTE: SEE PLAN ABOVE FOR 3.75 % GRADE DIMENSIONS EBM & DENRING -PVI -0 2355 GHOP WELD. NOTE: DIMENSIONS SHOWN ARE IN HORIZONTAL PLANE W 36 W36 SEE TABLE (SHEET 59-6) TO DETERMINE THE DIMENSIONS.

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SECTION SEA

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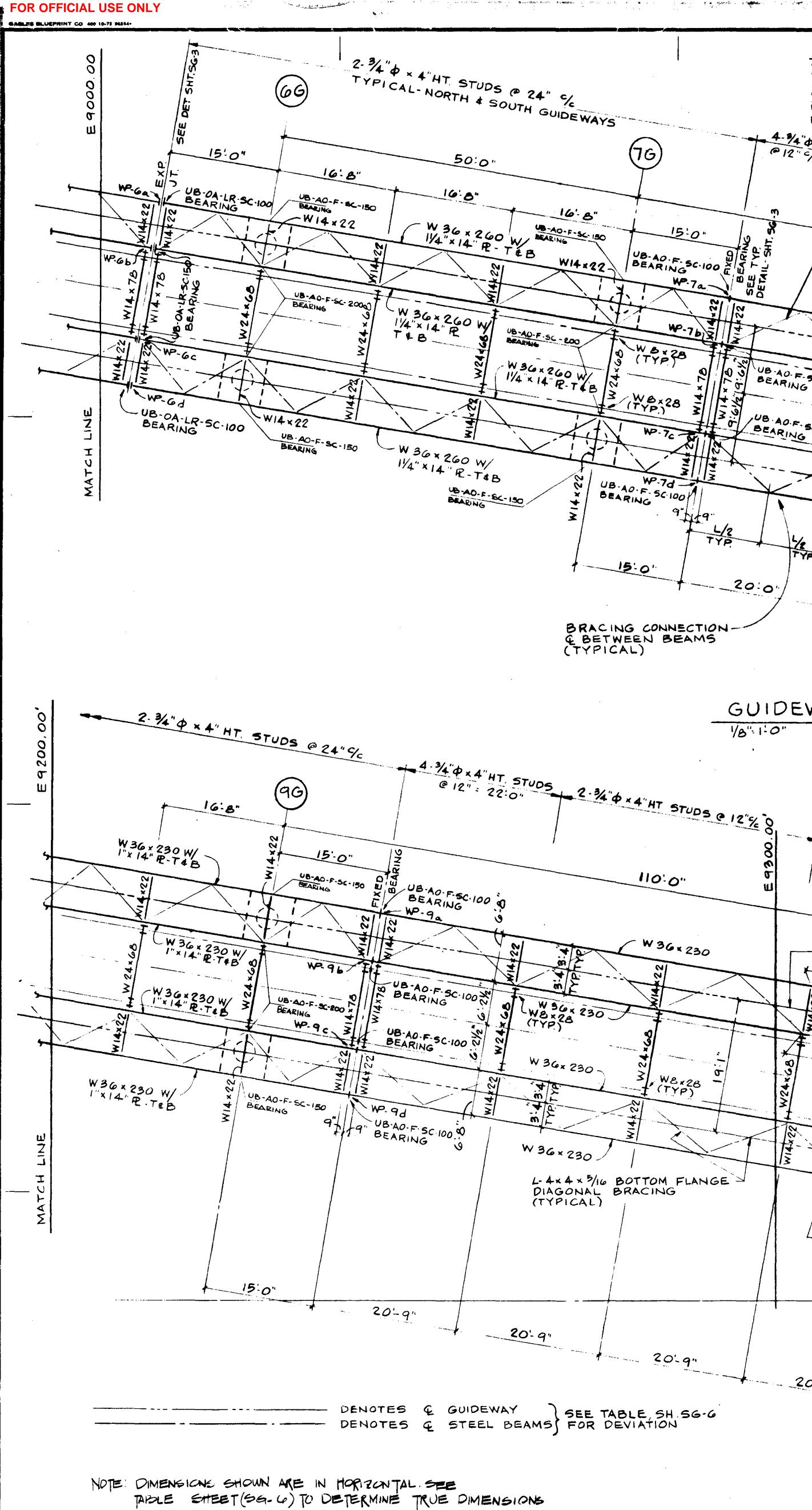




SG-4

SCHEDULE I

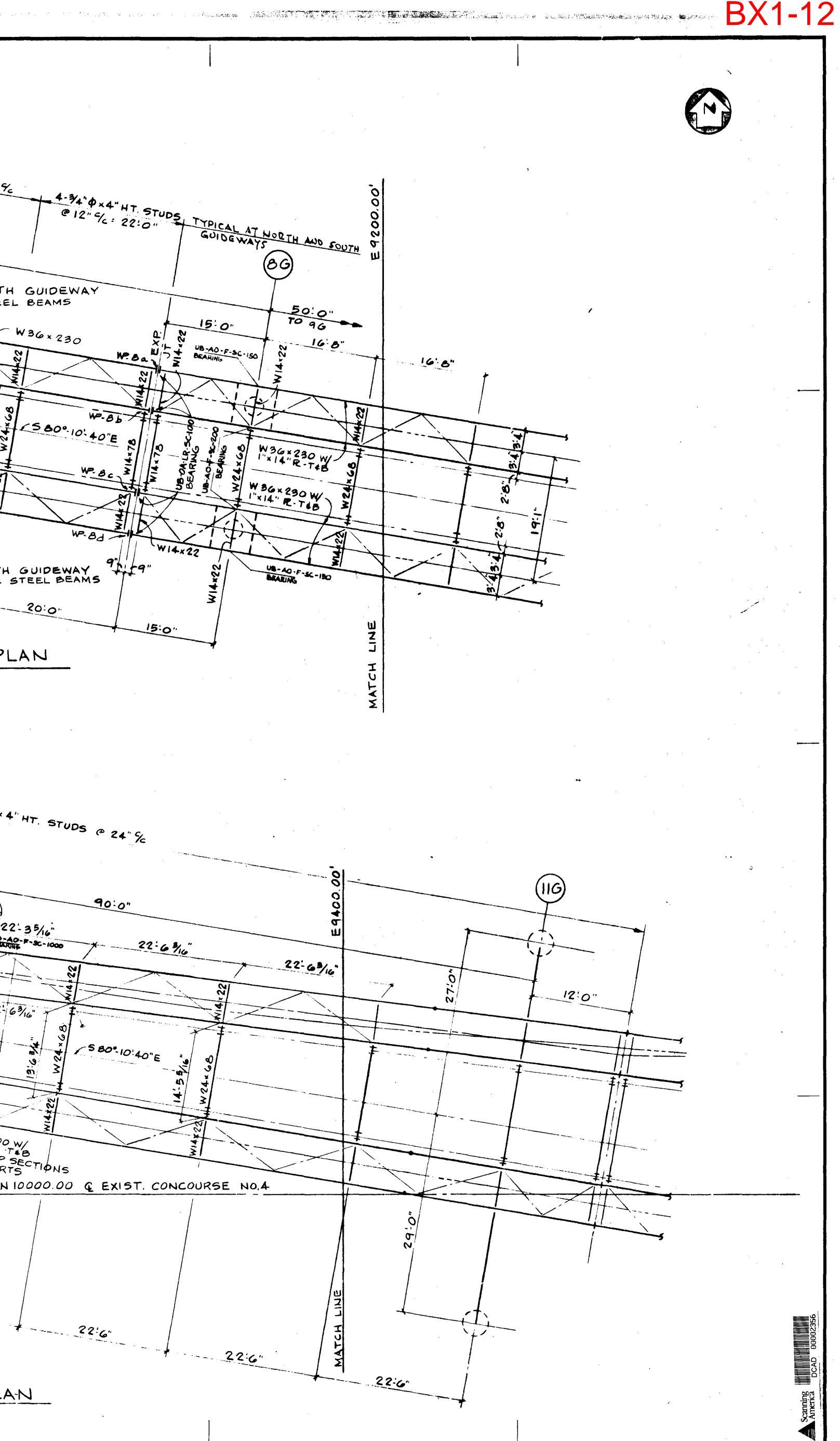
218-9

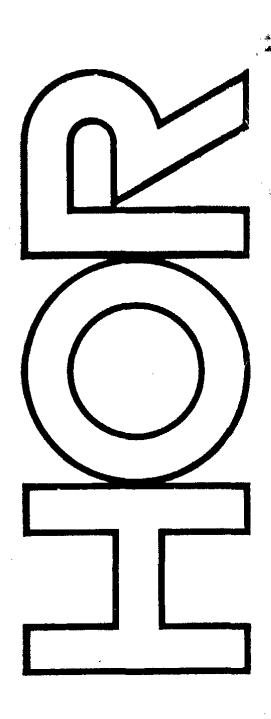


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4-9/4"Φ×4" HT STUDS 2-9/4"Φ×4" HT STUDS @ 12" 4/c (7G)L-4×4×3/6 BOT FLANGE DIAGONAL BRACING (TYPICAL) 15:0" UB-AD.F. SC.100 XI 110:0" WP.7a. & NORTH GUIDEWAY & STEEL BEAMS WP-76 31 10 WBY28 W36×230 BEARING Webay W 36 × 230 UB AOF SC. BEARING WP-76 - 54 W.85 + 5 80°. 10' 40"E W 36 x 230 -UB-AD-F-SCIDD WP.Bc. 9" fita L/2 TYP W36 × 230 WP. 8d -20:0 W14x22 20:0" "Fifq" - & SOUTH GUIDEWAY BRACING CONNECTION-20:0" & BETWEEN BEAMS (TYPICAL) 20:0 15:0" GUIDEWAYS-PARTIAL FRAMING PLAN 1/8"-1-0" - + 4-3/4 " \$ x 4 " HT. STUDS 2-34" \$ × 4" HT. STUDS @ 24" % 110:0" (106) W 36 × 230 CO: 83/16" 90:0" 1 56.10 22'-35/16" 12:03/16 W14 × 22 11 - WP. 10 4 UD-AO-F-SC-1000 22-63/16 WALOUN. 43 20: 9 1/10" WEX2B (TYP) 11-113/3 Aa2:02:14" 22-63/16" UB-04 BEAR 18 ¥1× WI4 x -5 80-10:40"E -wp-10r W14x22 7 1 WO lod 21 9" 19" W 36× 300 W/ 1/2 × 18 R TEB W/BUILT UP SECTIONS AT SUPPORTS - & SOUTH GUIDE WAY BEAM & STEEL BM/ - N 10000.00 Q EXIST. CONCOURSE NO.4 20-9" 20:9" 12:0" 22:6" 22:6" BEARING GUIDEWAYS - PARTIAL FRAMING PLAN 1/8":1:0"

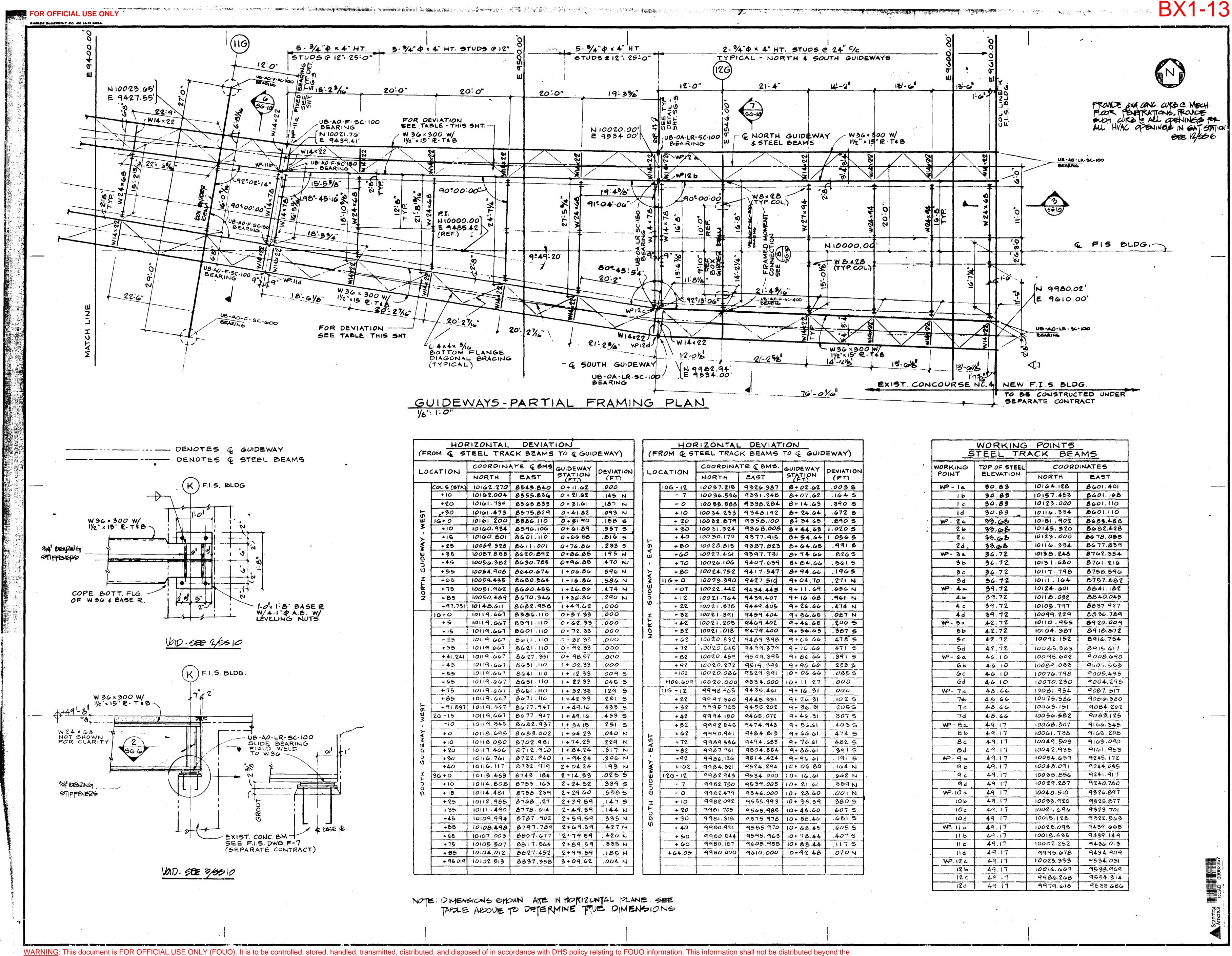
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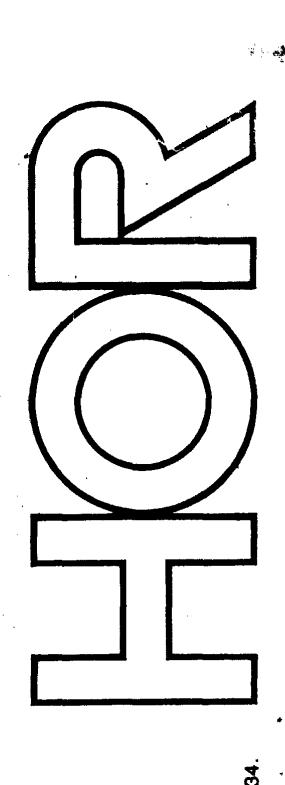


210-9



	HOR	ZIZONTAL	DEVIAT	ION			HOF	RIZONTAL	DEVIAT	ION	
FR	OM & 51	TEEL TRA	CK BEAMS	TO & GUID	DEWAY)	(F	ROM & S	TEEL TRAC			EWAY)
<u></u>	ATION	COORDINA	TE GOMS	GUIDEWAY	DEVIATION		CATION	COORDINA	TE C BMS.	GUIDEWAY	DEVIATIO
		NORTH	EAST	STATION (FT)	(FT)			NORTH	EAST	STATION (FT.)	(FT)
	COLS (STA)	10162.270	8545.840	0+11.62	.000		106 - 12	10037.215	9326.387	8+02.62	.00.3 5
	+10	10162.004	8555.834	0 + 21.62	.145 N		- 7	10036.536	9331.34B	8+07.62	,164 5
	+20	10161.739	8565.833	0+31.61	.187 N		-0	100 35.588	9338.284	8+14.63	.390 5
5	,+30	10161.473	8575.829	0+41.82	.093 N		+ 10	100 34. 233	9348.192	B+ 24.64	.672 5
	1G+0	10161,200	8586.110	0+51.90	.158 5		+ 20	10032.879	9358,100	8+34.65	.890 5
5	+10	10160.934	8596.106	0+61.89	.557 5		+ 30	10031.524	9368.008	8+44,63	1.020 5
	+15	10160, 801	8601.110	0+66.88	.816 5		+ 4-0	100 30,170	9377.915	8+ 54.64	and the second sec
	+25	10059.328	8611.001	0+76.86	.233 5	S	+50	10028.815	9387.823	8+64.65	}
5	+35	10057.855	8620,892	0+86.85	.195 N	ц М	+60	10027.461	9397.731	8+74,66	.8265
5	+45	10056.382	8630.783	0+96.85	.470 N/	1	+70	10026.106	9407.639	8+84,66	.561 5
2	+ 55	10054,908	8640.674	1+06.86	.596 N	7	+80	10024.752	9417.547	8+94.66	.1965
<u>ר</u>	+65	10053.435	8650.564	1+16.86	.586 N	WAY	116+0	10023.390	9427.510	9+04,70	,271 N
	+75	10051.962	8660.455	1+26.86	.474 N	μÇ	+ 07	10022.442	9434.445	9+11.69	.656 N
ź	+85	10050.489	8670.346	1+36.86	.290 N	10	+ 12	10021.764	9439.407	9+16.68	.961 N
	+97.751	10148.611	8682.958	1+49.62	.000	<b>U</b> -	+ 22	10021.578	9449.405	9+26.66	.474 N
	16+0	10119.667	8586.110	0+57.33	.000	I	+ 32	10021.391	9459.404	9+36.65	.087 N
[	+5	10119,667	8591.110	0+62.33	.000	14	+ 42	10021.205	9469.402	9+46.65	,200 =
	+ 15	10119.667	8601.110	0+72.33	,000	Q	+ 52	10021.018	9479.400	9+ 56.65	.307 =
[	+25	10119.667	8611,110	0+82.33	,000	2	+ 62	10020.832	9489.398	9+66.66	.478 5
[	+35	10119.667	8621.110	0+92.33	.000		+ 72	10020.645	94 99. 379	9+76.66	,471 €
[	+41,241	10119.667	8627.351	0+ 98,57	,000		+ 82	10020,459	9509.395	9+86.66	, 391 5
	+45	10119.667	8631.110	1 + 02.33	.000	1	+ 42	10020,272	9519.393	9+96,66	. 255 5
	+ 55	10119.667	8641.110	1 + 12.33	.009 5	l	+ (02	10020.086	9529.391	10+06.66	.085 5
[	+65	10119.667	8651.110	1 + 22.33	045 5		+106.609	10020.000	9534.000	10+11.27	.000
[	+75	10119.667	B661.110	1 + 32.33	.129 5		116 + 12	9998 965	9435.461	9+16.31	.000
	+85	10119.667	8671.110	1+42.33	281 5		+ 22	9997.360	9445.331	9+26.31	,102 5
5 [	+91.837	10119, 10107	8677.947	1+49.16	.433 5		+ 32	9995 755	9455.202	9+36.31	. 2059
	2G-15	10119.667	8677.947	1+49.16	.433 5	ſ	+ 42	9994.150	9465.072	9+46.31	.307 5
	-10	10119.345	8682.937	1 + 54.15	.251 5		+ 52	9992,545	9474.943	9+56.61	.405 5
	+0	10118.695	8683.002	1+64.23	.040 N	1-	+ 62	9990.941	9484,813	9+66.61	.474 9
	+10	10118,050	8702.981	1+74.23	.229 N	N N	+ 72	9989336	9494.683	9+76.61	482 5
5	+ 20	10117.406	6712 9:00	1+84.24	.317 N	Ē	+ 82	9987.731	9504.554	9+86.61	.397 5
	+30	10116.761	8722.040	1 + 94,24	.306 NI	1.	+92	9986.126	9514.424	9+96.61	. 191 5
	+40	10116.117	8732 919	2+04.24	.193 N	WAY	+102	9984.521	9524.294	10+ 06.80	.164 N
	3G+0	10115.453	8743 184	2+14.53	.0255	L LL	12G-12	9982.943	9534.000	10+16,61	.662 N
	+10	10114.808	8753.163	2+24.52	.339 5	010	- 7	9982.750	9539.005	10+21.61	.359 N
ί [	+15	10114.481	8758.239	2+29.60	.5385	บั	- 0	9982.479	9546.000	10+28.60	.001 N
ļ	+25	10112.985	8768.,27	2+39.59	.1475	I	+ 10	9982.092	9555. <b>99</b> 3	10+38.59	.380 ≘
	+35	10111 . 490	8778.014	2+49.59	.144 N		+ 20	9981.705	9565.985	10+48.60	.607 5
	+45	10109,994	8787.902	2+59.59	.335 N	0	+ 30	9981.318	9575.978	10+ 58,46	.6815
ļ	+55	10108.498	8797.789	2+69.59	.427 N	٥ ۱	+ 40	9980.931	9585.970	10+ 68.45	.605 5
Ì	+65	10107.003	8807.677	2+7959	.420 N		+ 50	9980,544	9595,963	10+78.44	.4075
ļ	+75	10105.507	8817.564	2+89.59	,333 N		+ 60	9980.157	9605.955	10+88.44	,1175
	+85	10104.012	8827.452	2+99.59	.185 N	1	+64.05	9980.000	9610,000	10+92.48	.020 N
- 1	+ 95.019	10102.513	8837.358	3+09.62	.004 N	1	Γ				1

ſ	WORKING	POINTS	- <u> </u>
5	TEEL TR	and the second se	MS
WORKING	TOP OF STEEL	COORD	NATES
POINT	ELEVATION	NORTH	EAST
WP-la	30.83	10164.128	8601.401
16	30.83	10157.453	8601.168
10	30.83	10123.000	8601,110
bl	30.83	10116.334	8601.110
WP- 2a	33.68	10151.902	8683.488
26	37.68	10145. 320	8682.428
20	33.68	10123.000	86 78.055
20.	33.68	10116.334	8677.839
WP-30	36.72	10138.248	8762.354
36	36.72	10131.680	8761.216
30	36.72	10117.798	8758.596
3d	36.72	10111 . 164	8757.882
WP. 4a	39.72	10124.601	8841.182
46	39.72	10110.032	8840.045
4 c	39.72	10105.797	<b>B</b> B37,927
4 d	39.72	10099.229	8336.789
WP-5a	42.72	10110.955	8920.009
56	42.72	10104.387	8918.872
<b>5</b> c	42.72	10092.152	8916.754
5d	42.72	10085,583	8915.617
WP-Ga	46.10	10095,602	9008.690
66	46.10	10089.033	9007.553
6c	46.10	10076.798	9005,435
6d	46.10	10070.230	9004.298
WP-7a	48.66	12081.954	9087.517
76	48.66	10075.386	9086.380
7 с	48.66	10063.151	9084.262
76	48.66	10056.582	9083,125
WP-Ba	49.17	10068,307	9166.345
86	49.17	10061.738	9165.208
<b>8</b> c	49,17	10049.503	9163.090
<u>8d</u>	49.17	10042,935	9161.953
WP-9a	49.17	10054.659	9245.172
96	49.17	10048.091	9244.035
90	49.17	10035.856	9241.917
99	49.17	10029.287	9240,780
WP-10a	49.17	10040.510	9326.891
106	49.17	10033.920	9325.877
10c	49.17	10021,696	9323.701
109	49.17	10015.128	9322.563
WP-110.	49,17	10025.093	9439.665
116	49.17	10018,435	9439.149
lic	49.17	10002.252	9436.013
- <u>ild</u>	49.17	9995.678	9434.909
WP.12a	49.17	10023.333	9534.031
126	49,17	10016.667	9533.969
12 c	49 17	9986.268	9534.314
12.4	49.17	9979.618	9533.686





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WAY WAYS

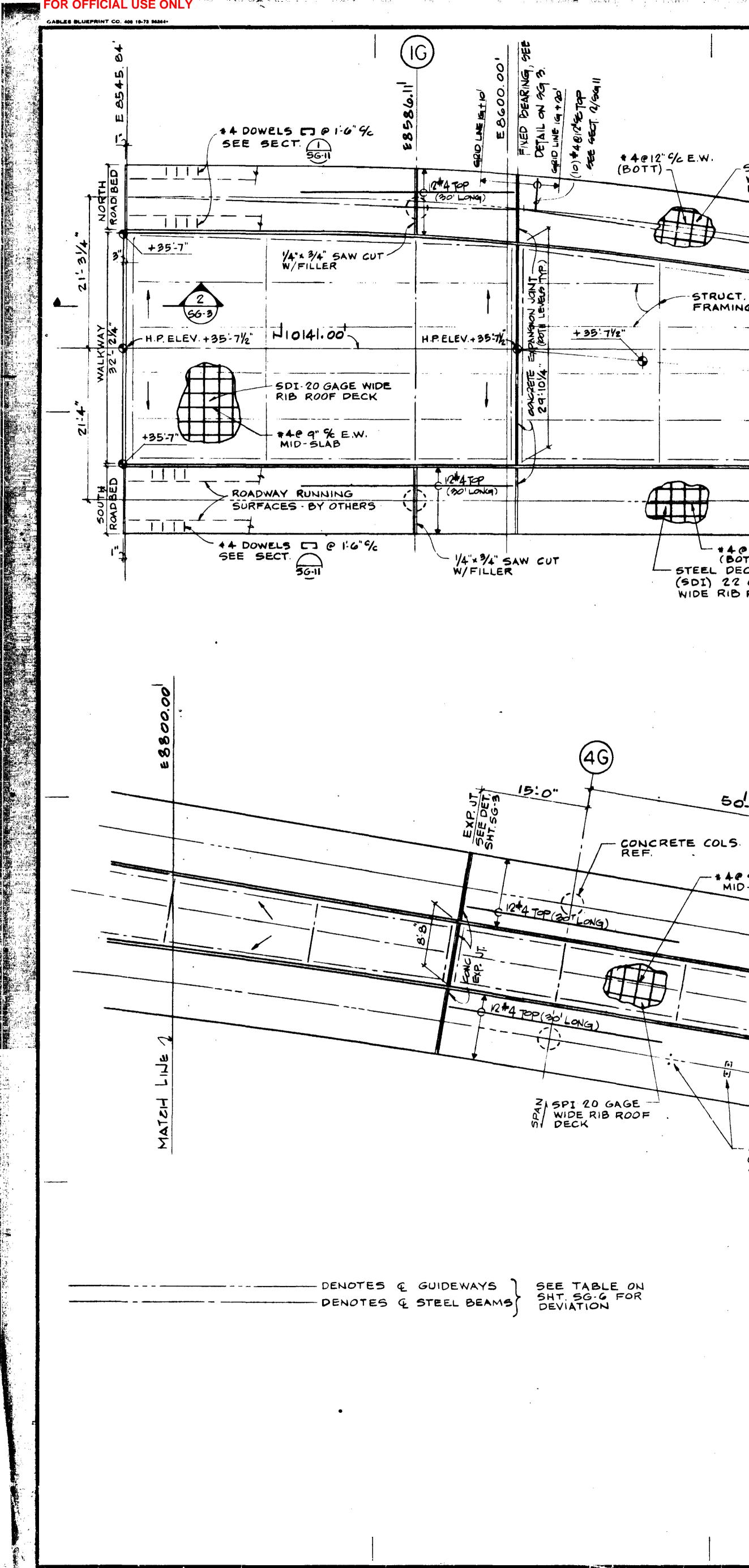
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Sheet

**SG-6** 

SCHEDULE II

218-9



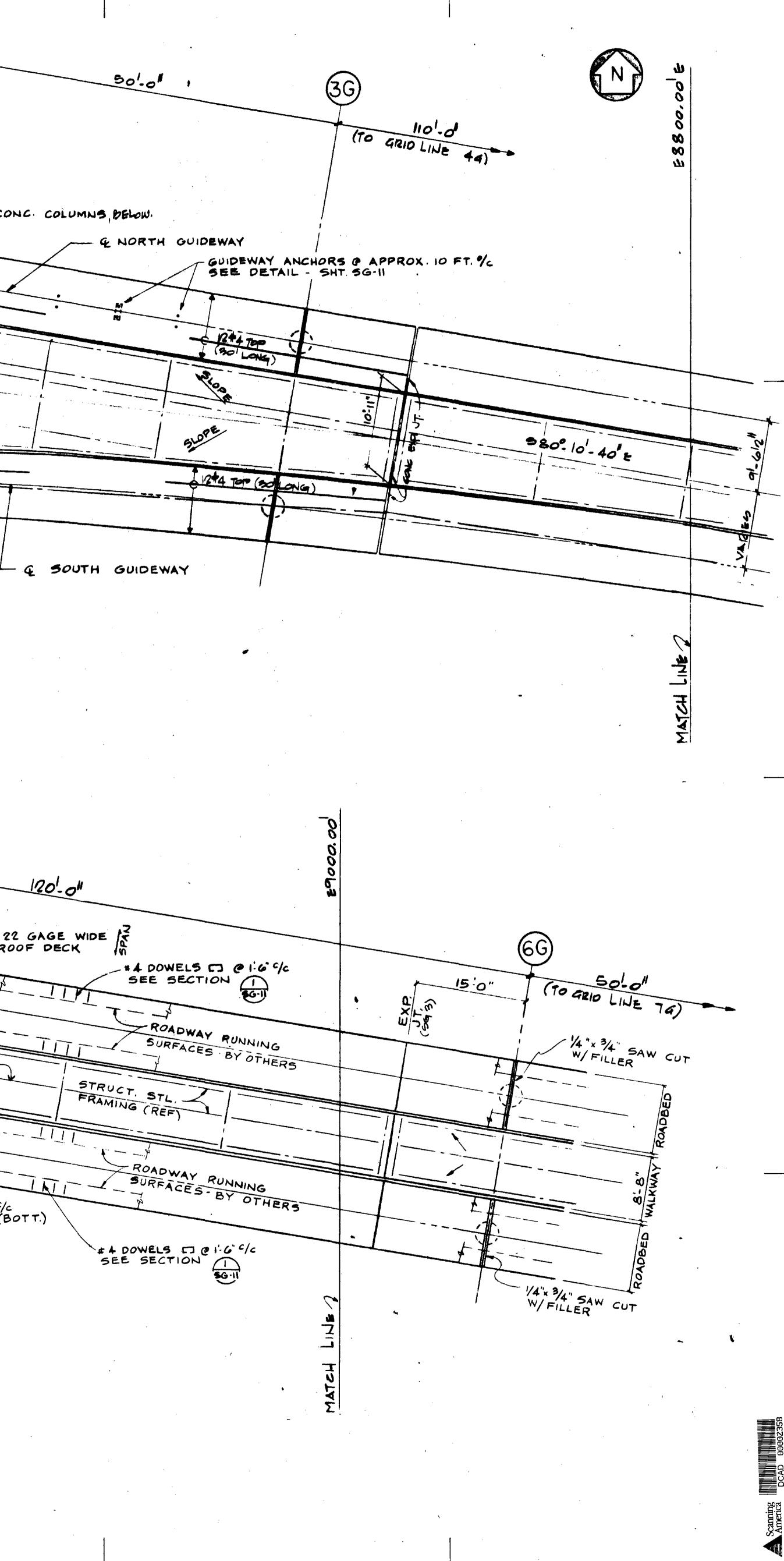
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։ Դերի Բերեքնոր են էր մի ստոնքի է <sup>17</sup>ննությունների 10-ին համարագետարագետերը տեսերեր չապատաներ մասինելել քուրը պատգո Մի քենքերը on we four weather the states of the 26 EXP J. SEE DET SHT SG SDI 22 GAGE 26.11 15:0" - CONC. COLUMNS, BELOW. FRAMING (REF) 12+4 TOP (30'LONG -------19°-49-20 PI \$8670.99 and the second sec N10141.00 (REF) - 12 +4 TOP (30' ONG) - + 4 @ 12" % E.W. (BOTT.) - STEEL DECK INSTITUTE 2 (SDI) 22 GAGE PARTIAL PLAN 18 = 1-0 50.0" (56) MID- SLAB 6G-11 120-0# & STEEL BEAMS RIB ROOF DECK 12#4 TOP (30'LONG 111 580°-10-40"E (30'LONG) - GUIDEWAY ANCHORS @ APPROX 10 FT % SEE DETAIL- SHT. & STEEL BEAMS = # 4 @ 12" C/c EA WAY (BOTT) <del>ت</del>ې \_\_\_ PARTIAL PLAN 18 = 1-0"

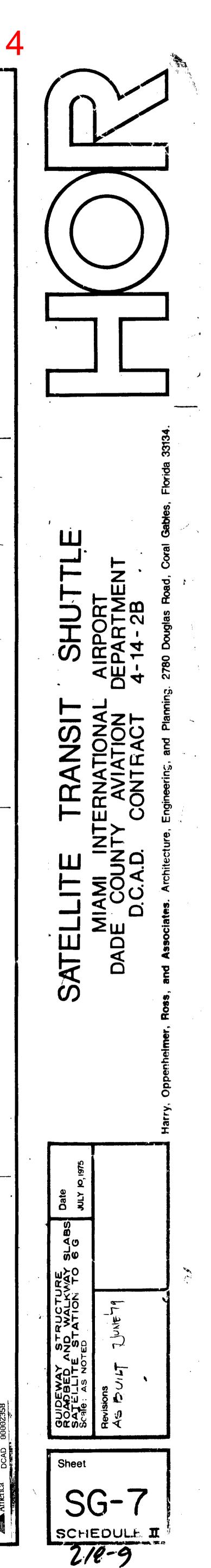
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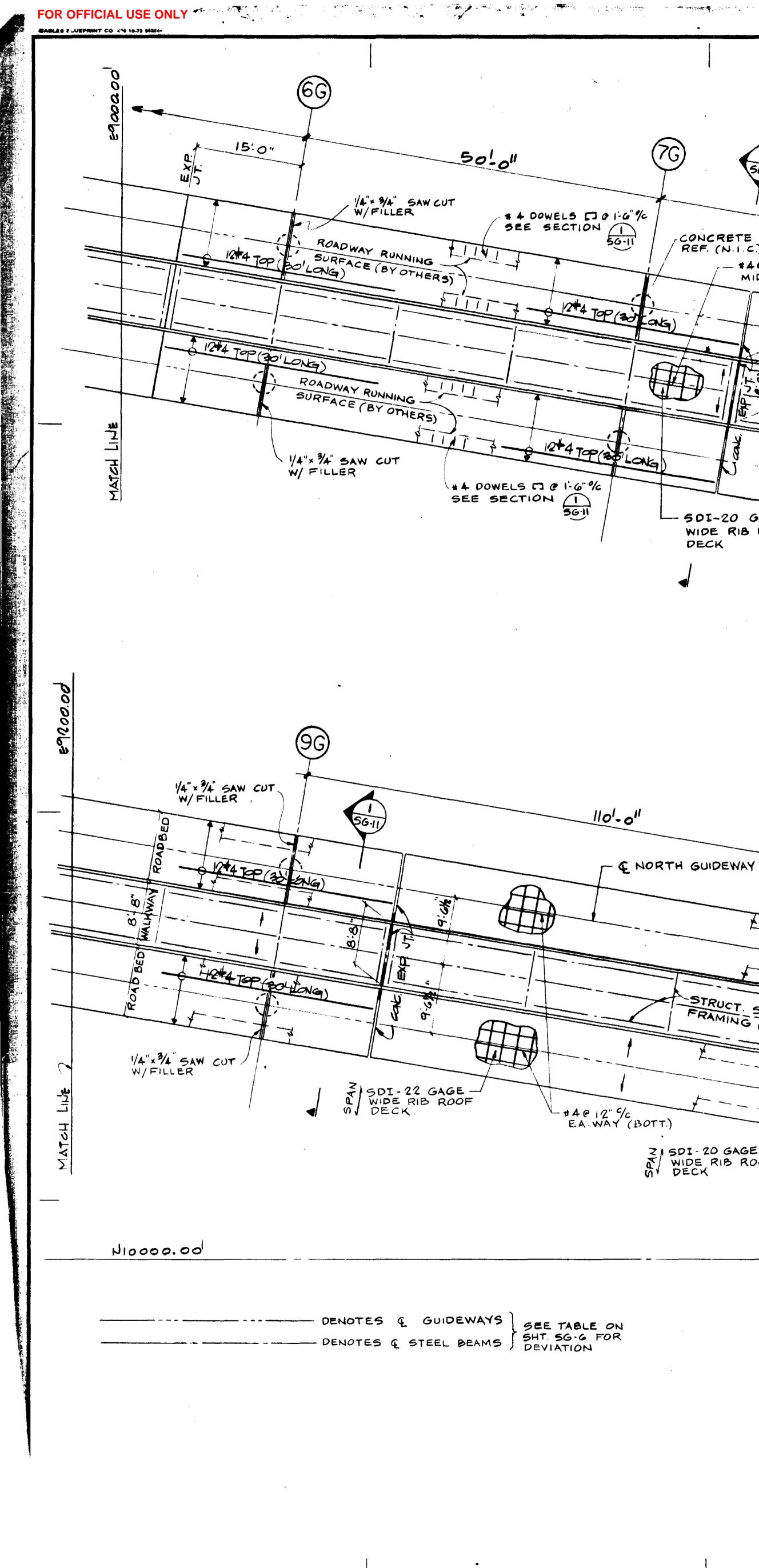


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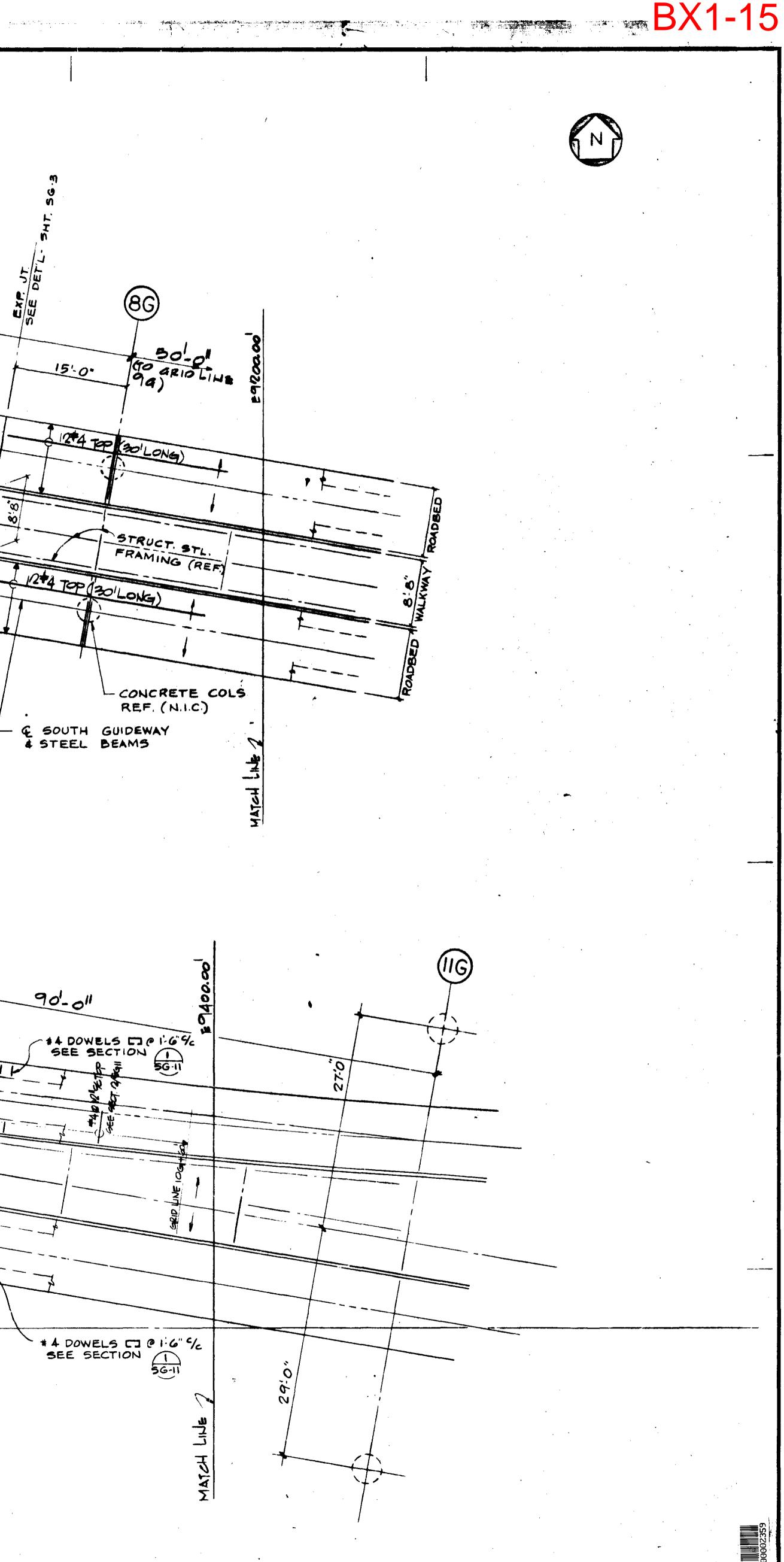
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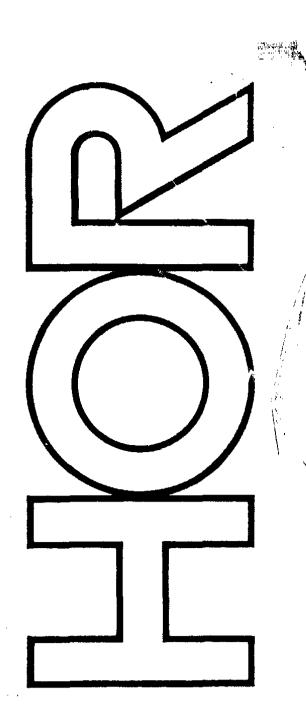




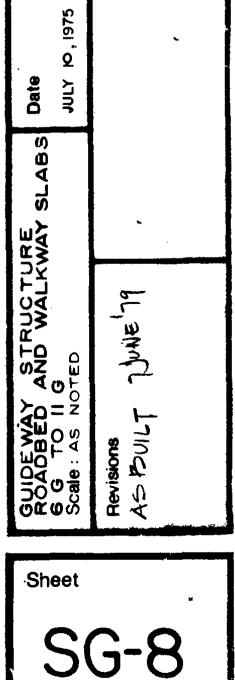
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and and a second se 56.11 REF. (NILC.) 110-0" - # 4 @ 12" % EA.WAY (BOTT.) L STEEL BEAMS 20 + 53' 4" 580.10-40"E - SDI-20 GAGE WIDE RIB ROOF Ĩ₹ DECK WIDE RIB ROOF DECK @ APPROX. 10 FT % SEE DETAIL - SHT. 56-12 PARTIAL PLAN 8=1-0 EXPJT, See det'l Sht. SG-3 66 -- \*409 % E.W. MID-SLAB 12'-0" CONCRETE COLS. REF. (NI.C.) 6 12#4 TOP (30/LONG) FRAMING (REF) ROADWAY RUNNING SURFACE (BY OTHERS) 580° 10-40" E CHIZ#4 TOP (BO'LONG) SURFACE (BY OTHERS) ZISDI-20 GAGE-WIDE RIB ROOF - & SOUTH GUIDEWAY STEEL BEAMS & EXIST. CONCOURSE NO.4 2 PARTIAL PLAN 18 = 1-01







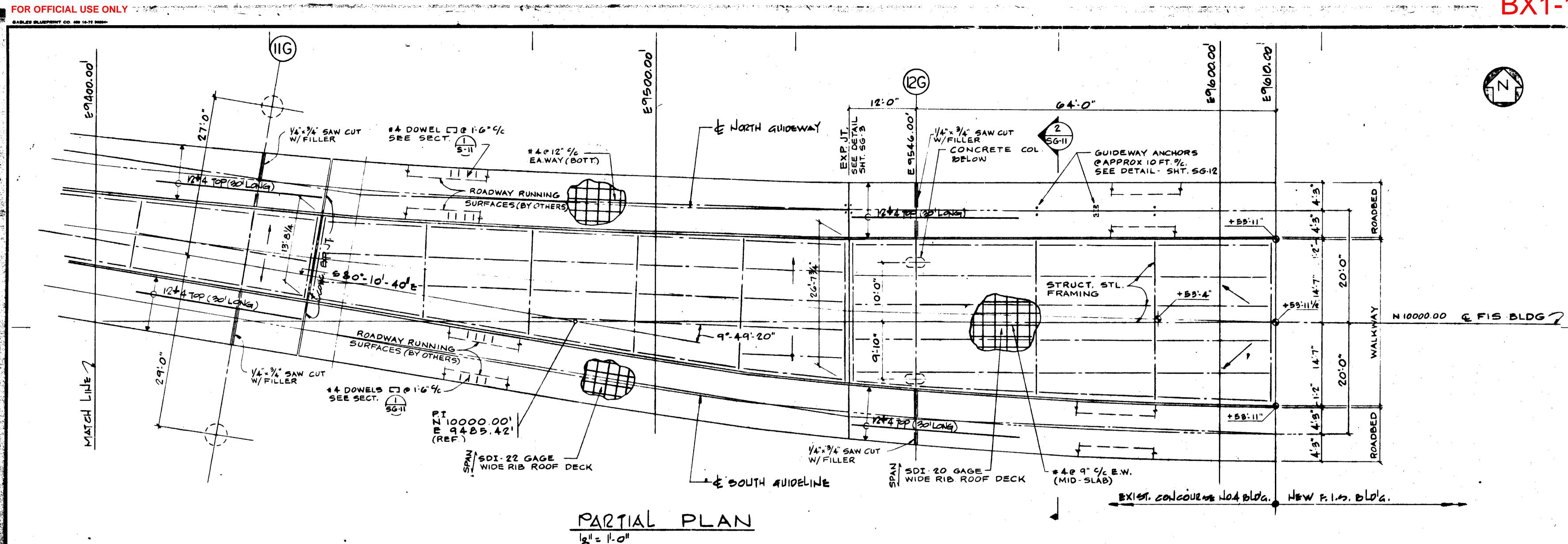


SCHEDULE ?

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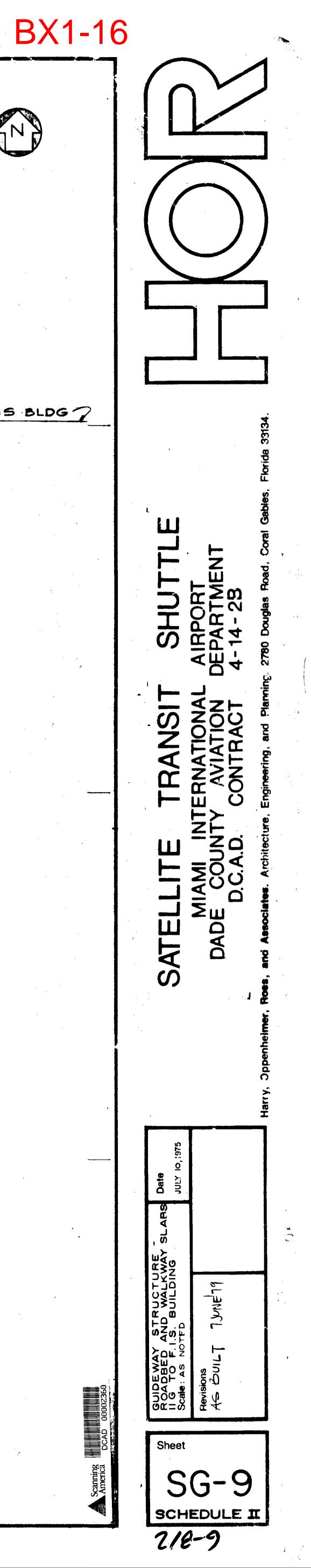


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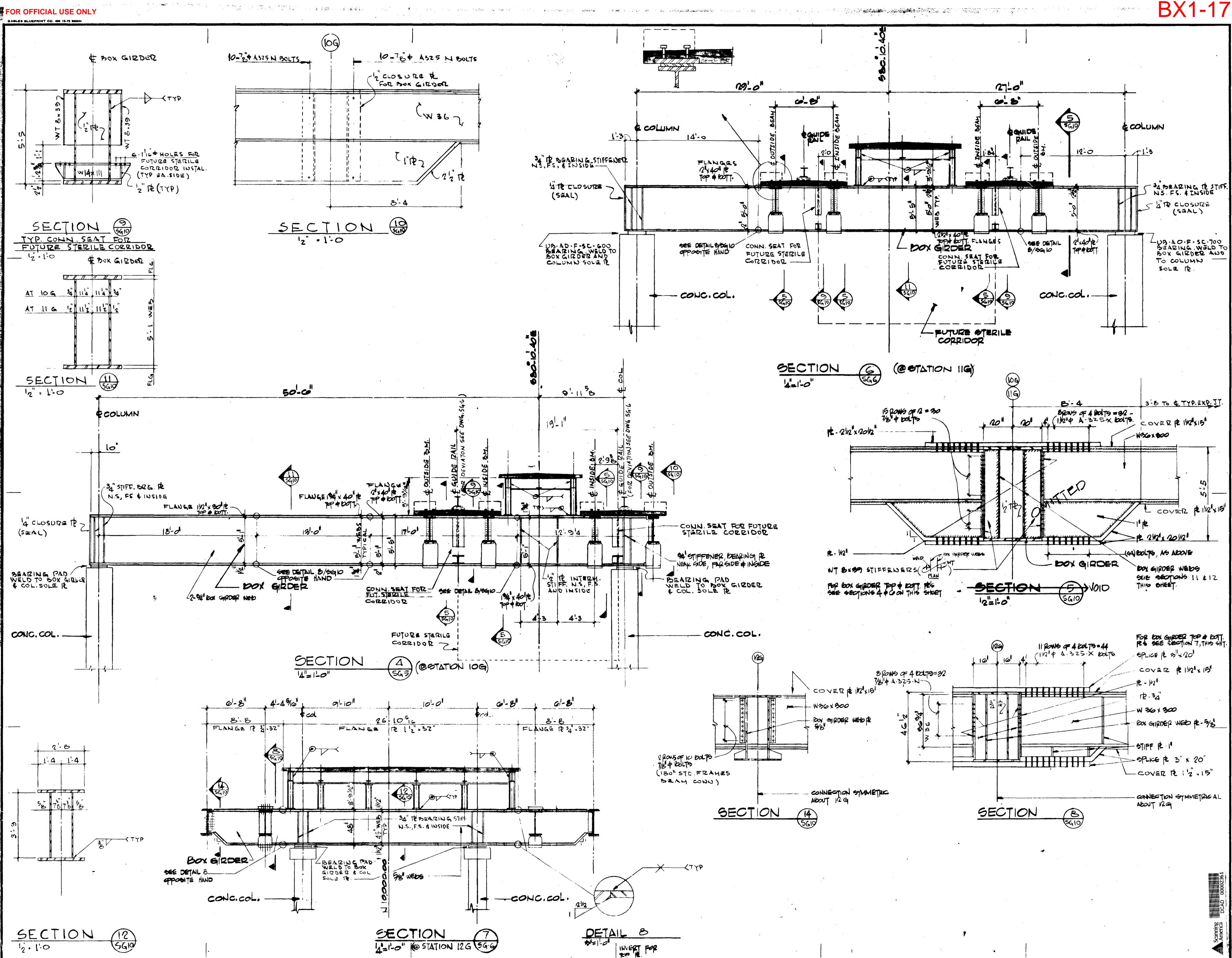
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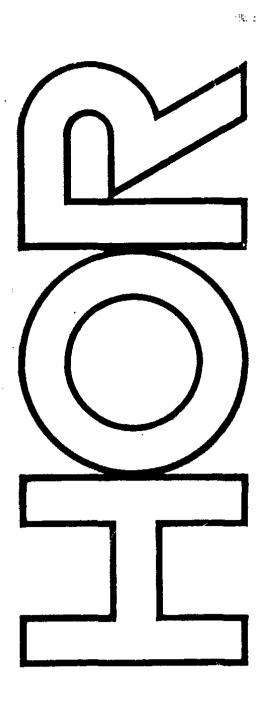


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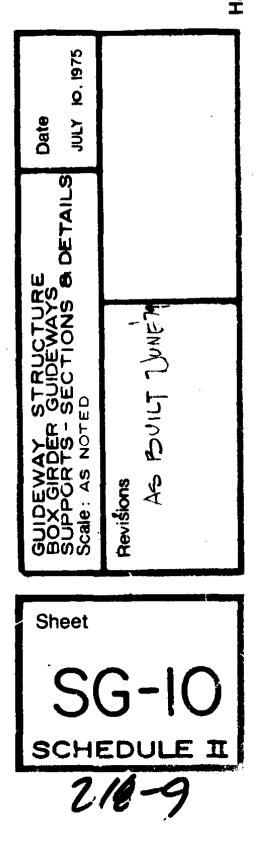


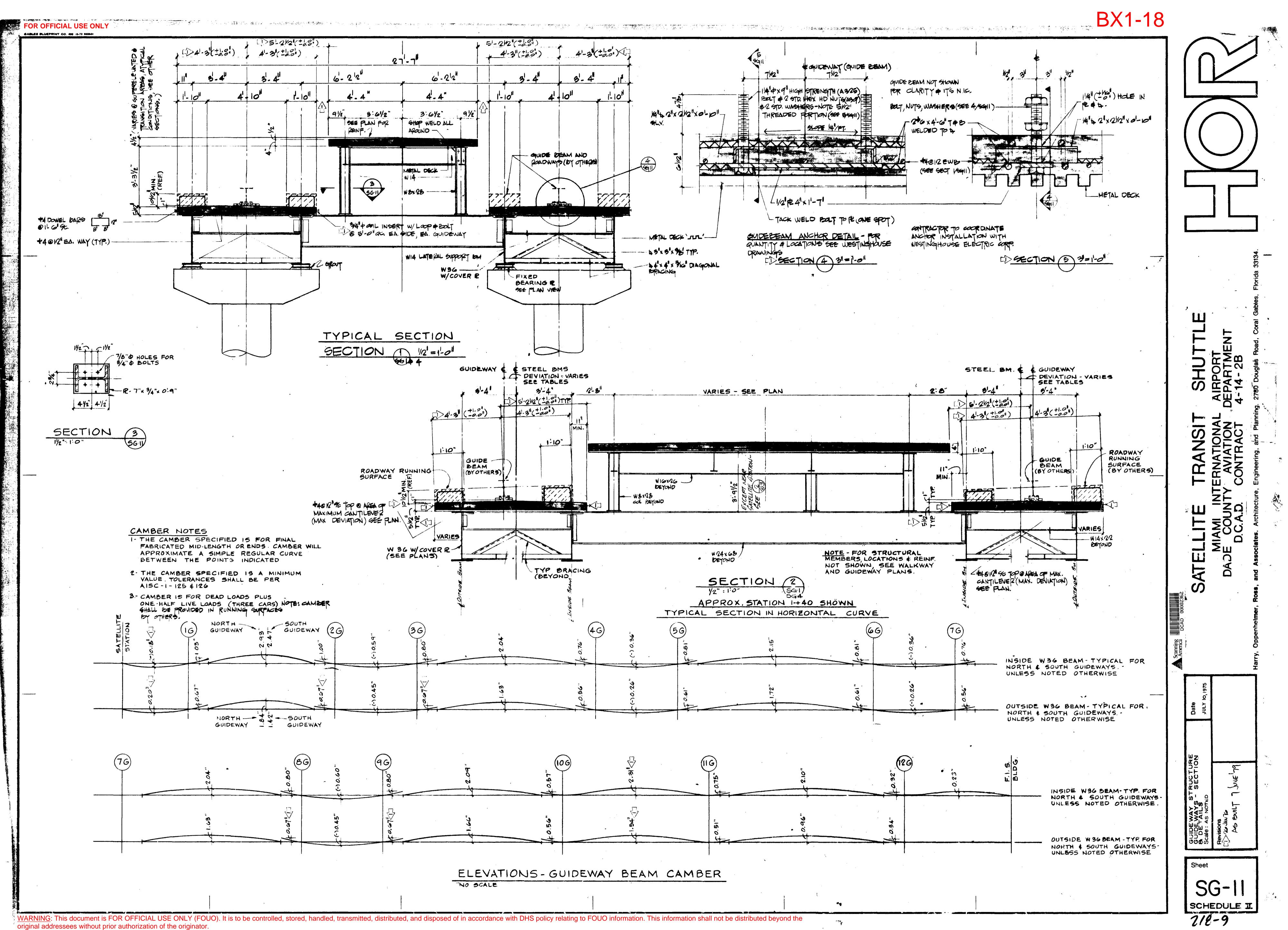
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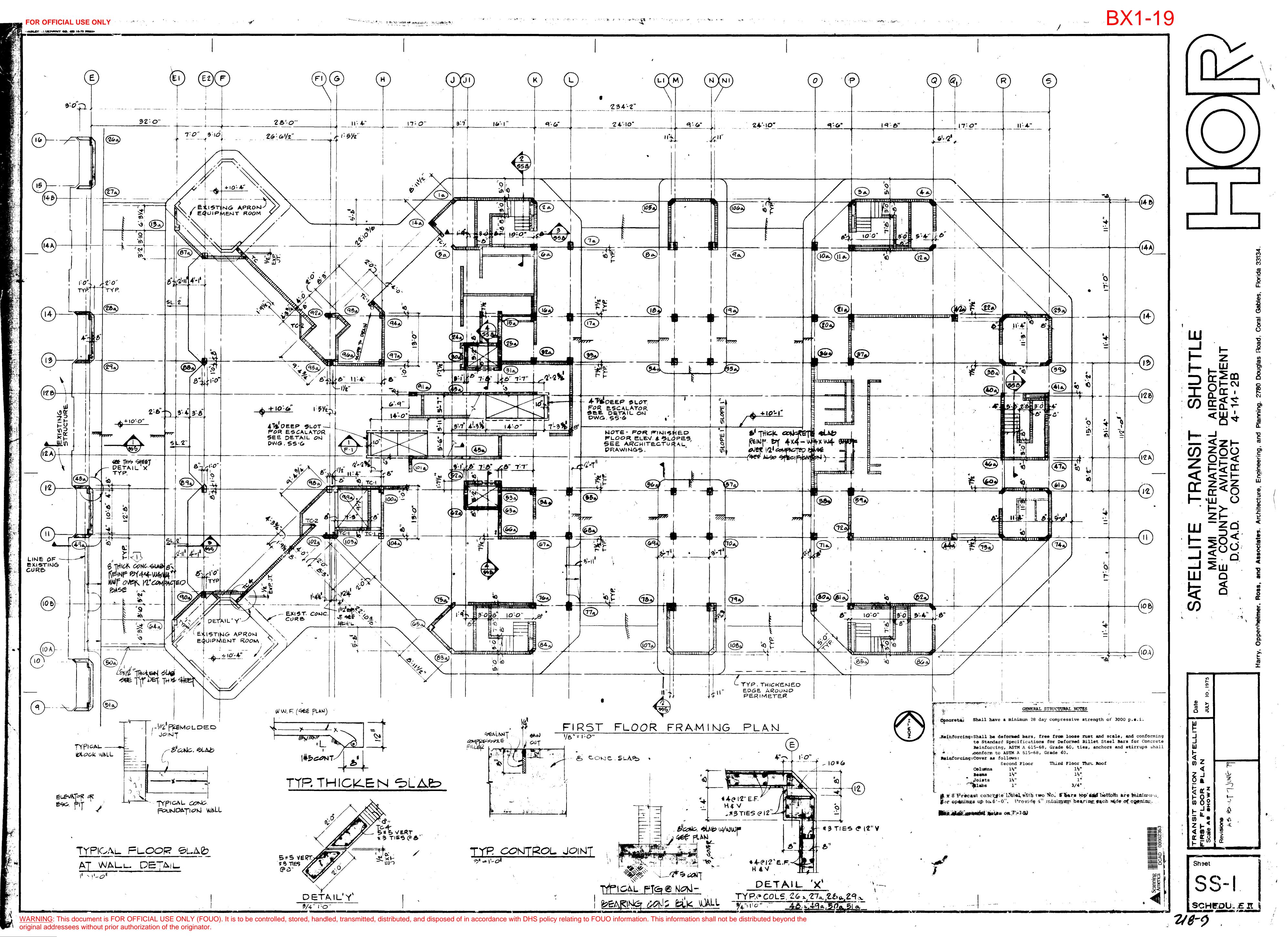
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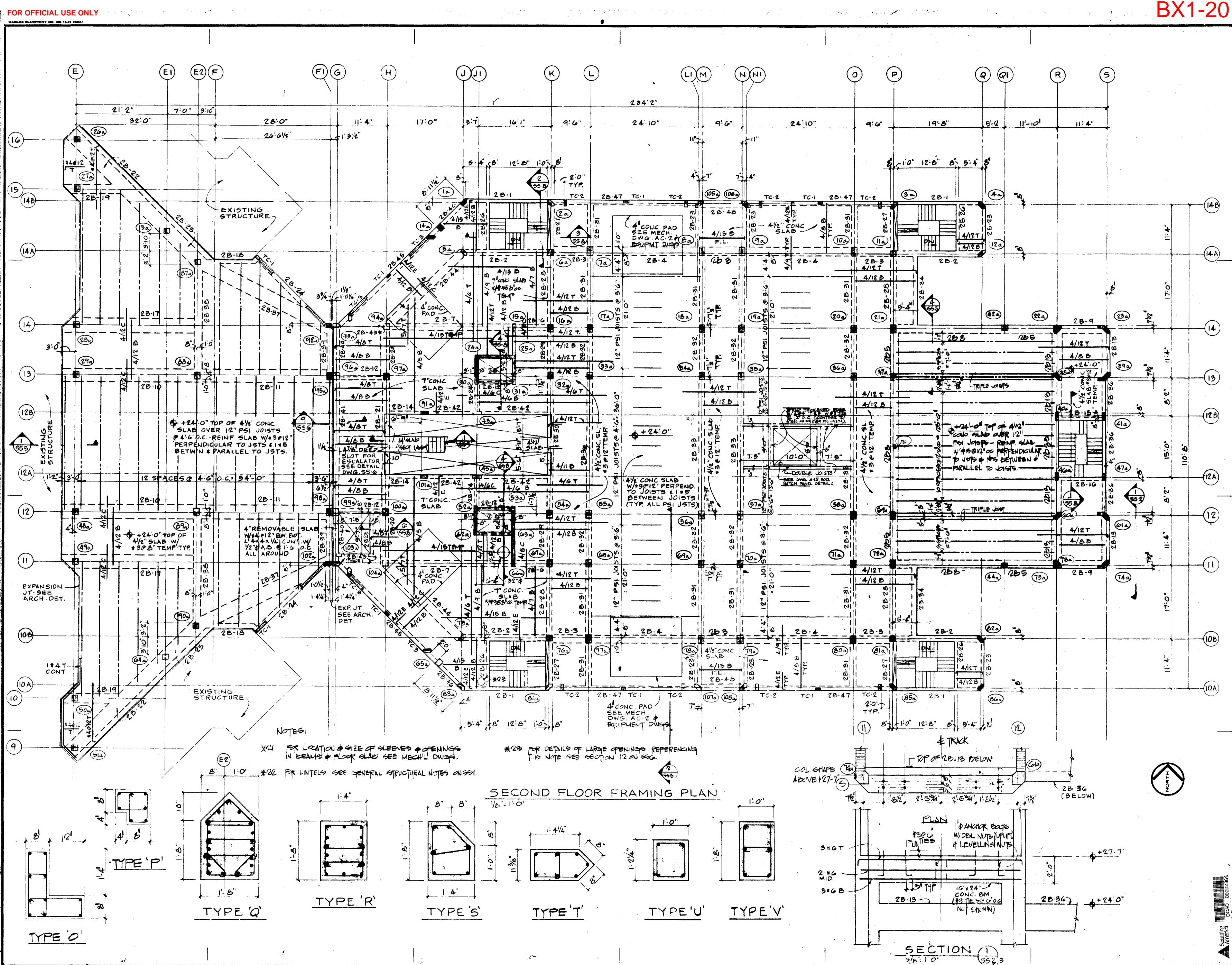


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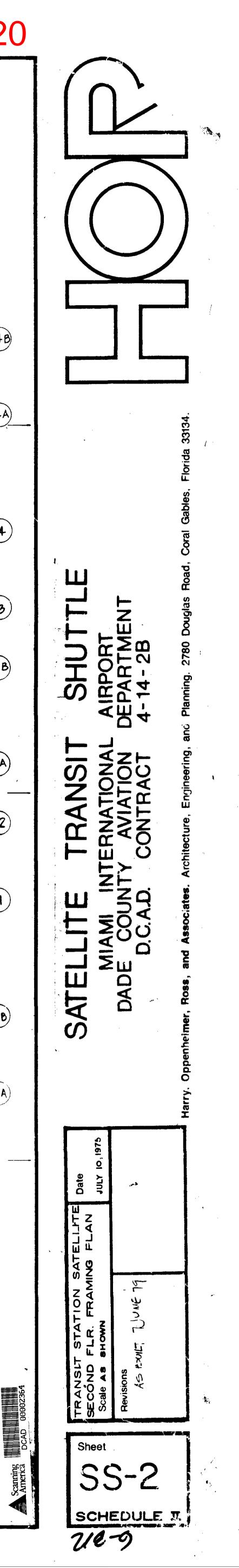


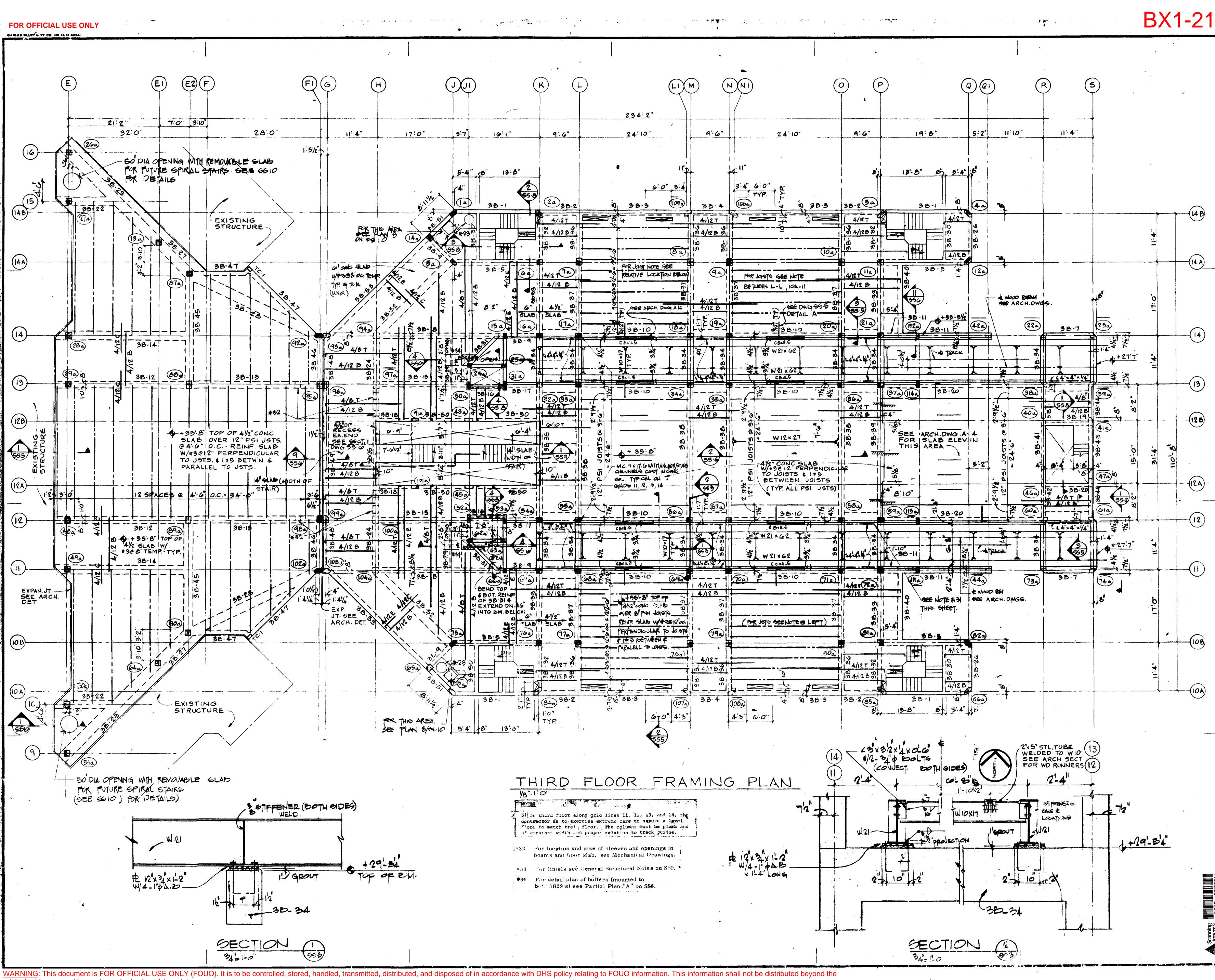


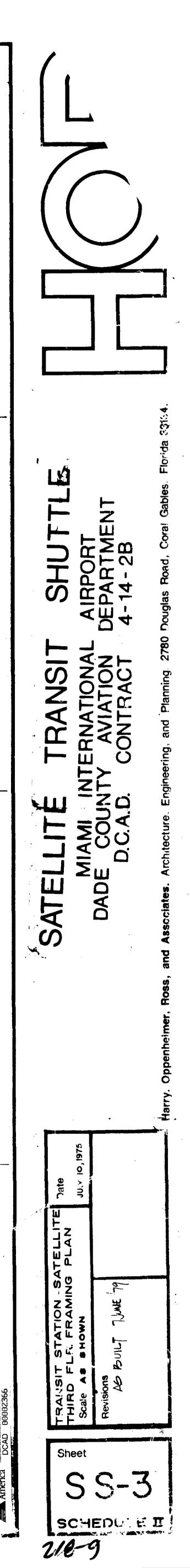




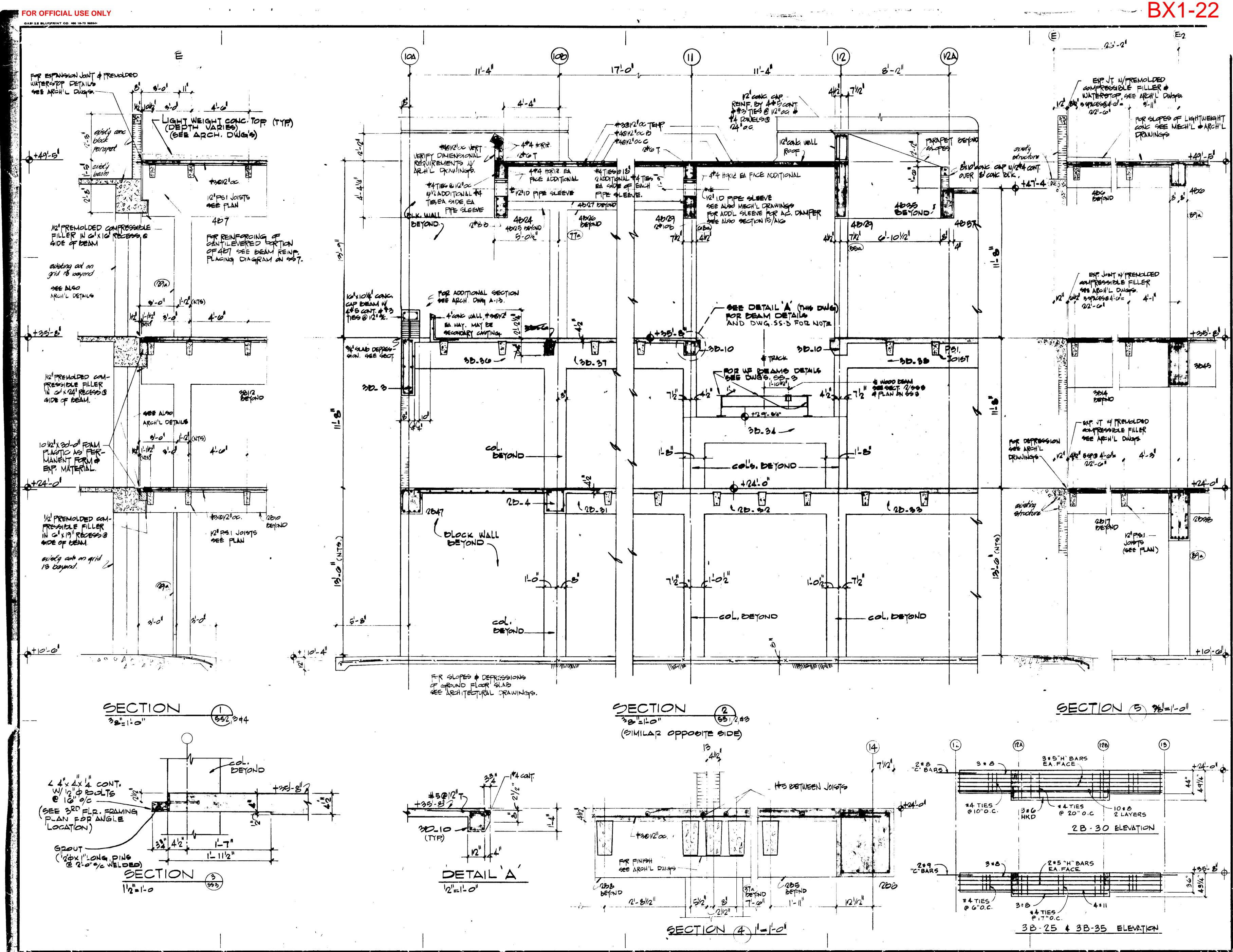
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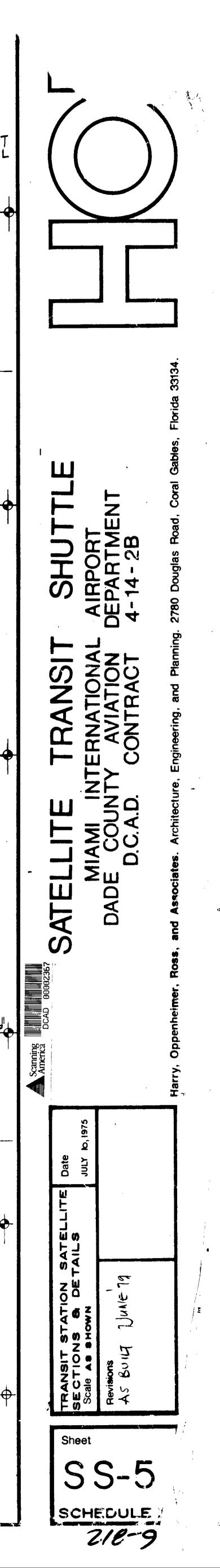




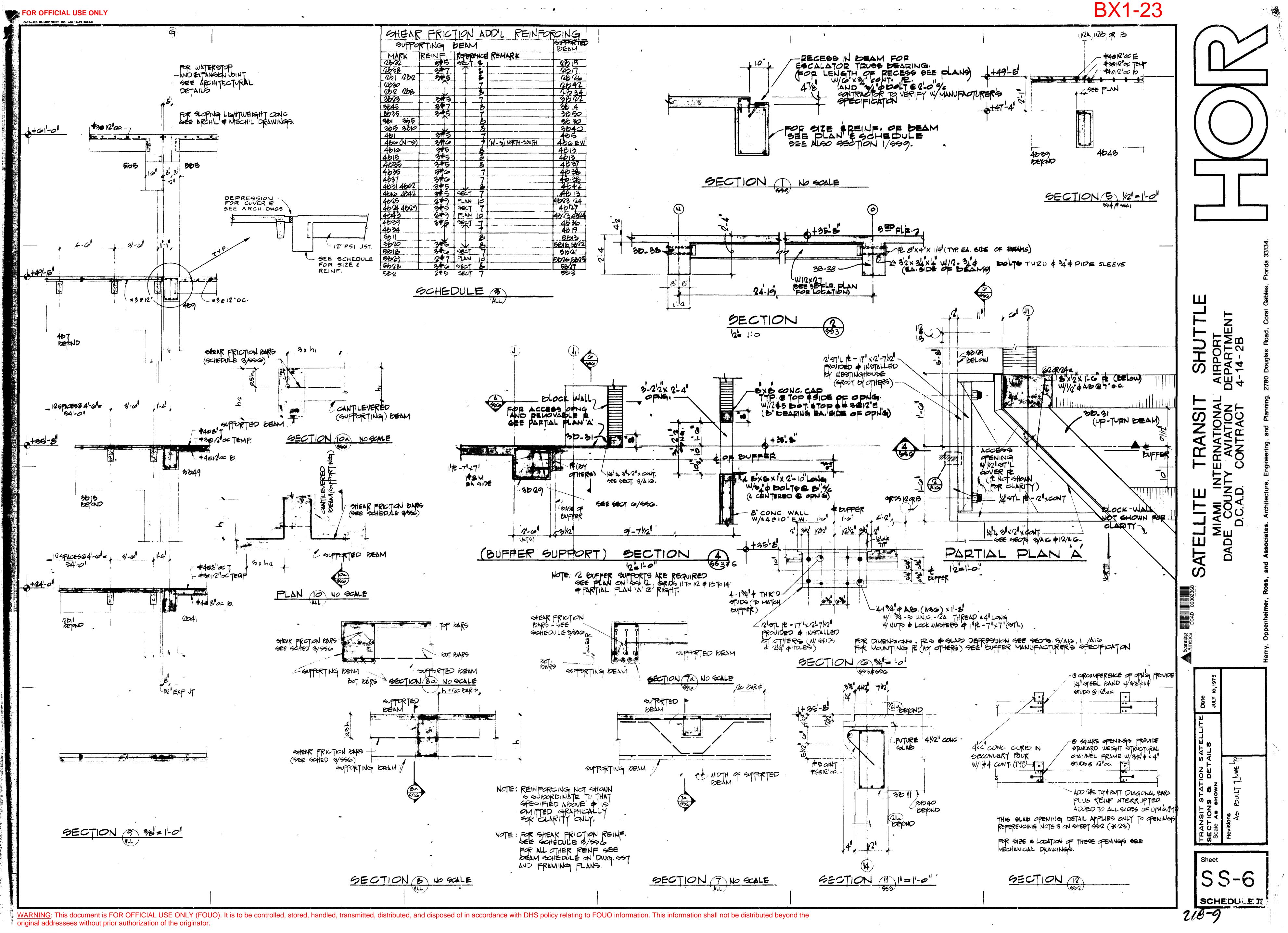
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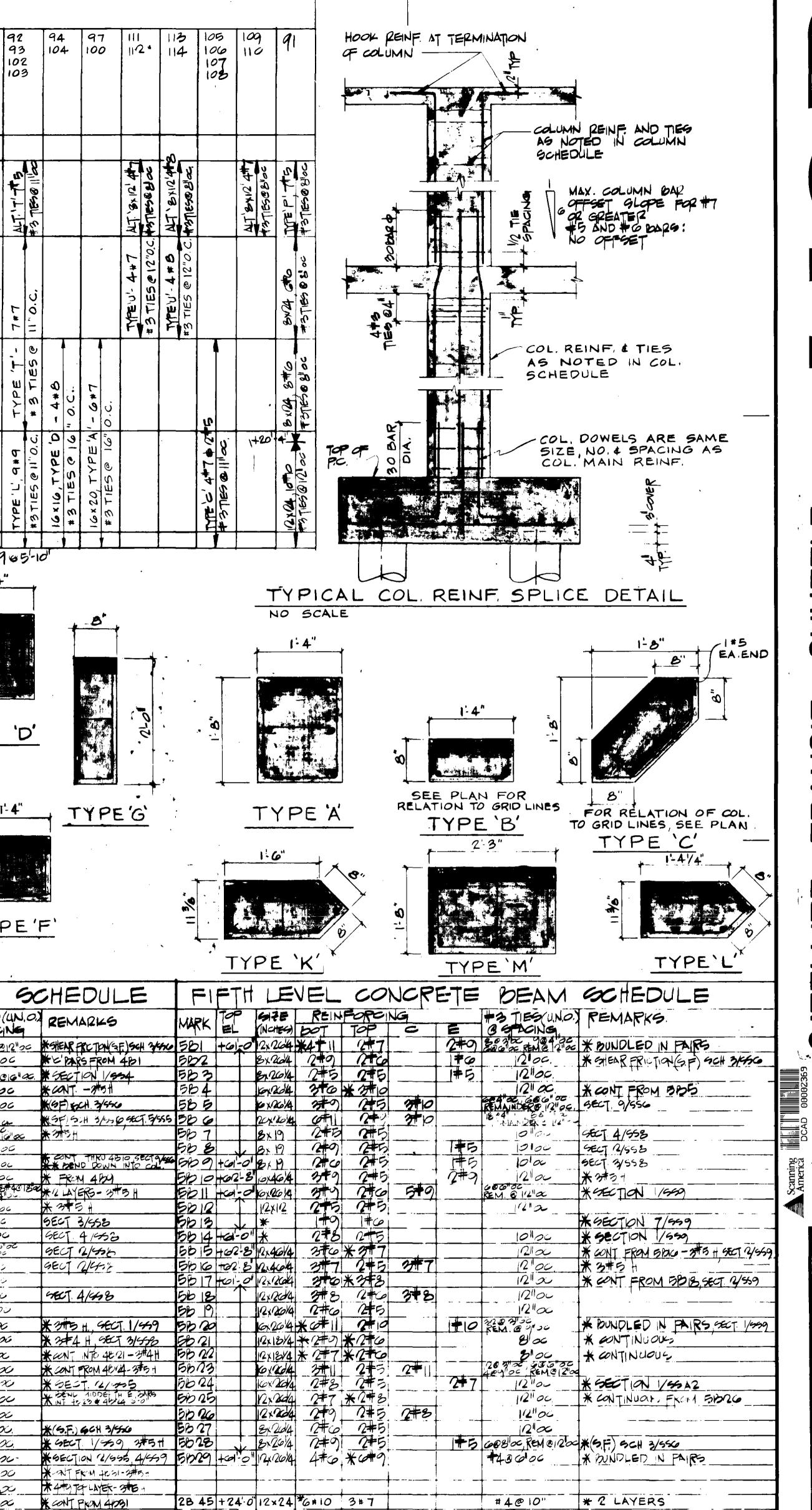


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\* CONT PROM 41031 \* 3711 70PLAYER-3710 H \* CFECT 1/5537 - 11" **#4@8**" 434 \* CELT 3/439, 1/490 8" 

 2B
  $48 + 24 - 0^{\circ}$   $20 \times 24$  4 + 8 3 + 9 2 + 9 

 3B
  $45 + 35 \cdot 8^{\circ}$   $20 \times 30$  6 + 10 3 + 8  $7^{\circ}$  

 3B
 46 8 + 24 2 + 6 2 + 6 2 + 6 

 3B 46 8 + 24 2 + 6 2 + 6 2 + 6 

 3B 48  $8 \times 24$  2 + 7 2 + 7 

 3B 49  $16 \times 24$  3 + 7 3 + 7 

 3B 49  $16 \times 24$  3 + 7 3 + 7 

 3B 50  $8 \times 28$  2 + 6 2 + 6 

 3B 51  $8 \times 24$  2 + 6 2 + 6 

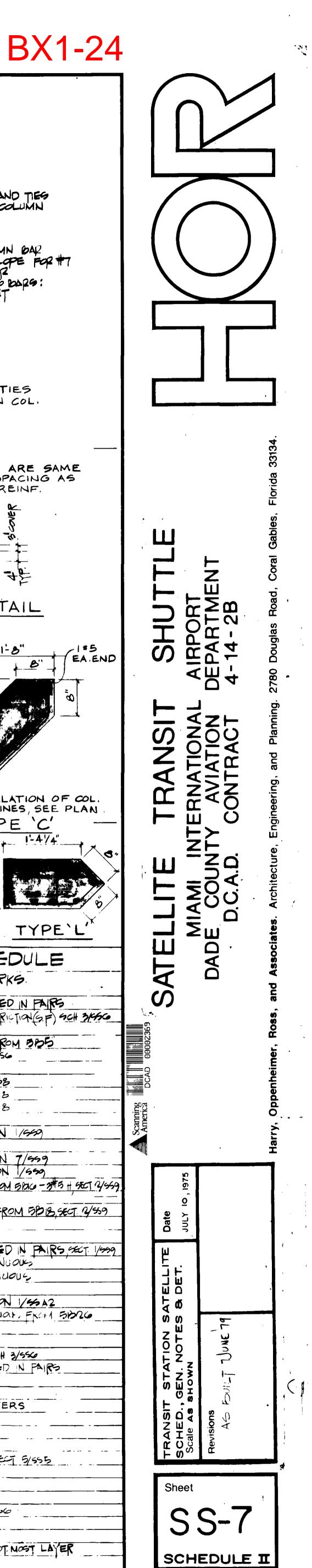
 3B 51  $8 \times 24$  2 + 6 2 + 6 

 3B 51  $8 \times 24$  2 + 6 2 + 6 2 + 6 

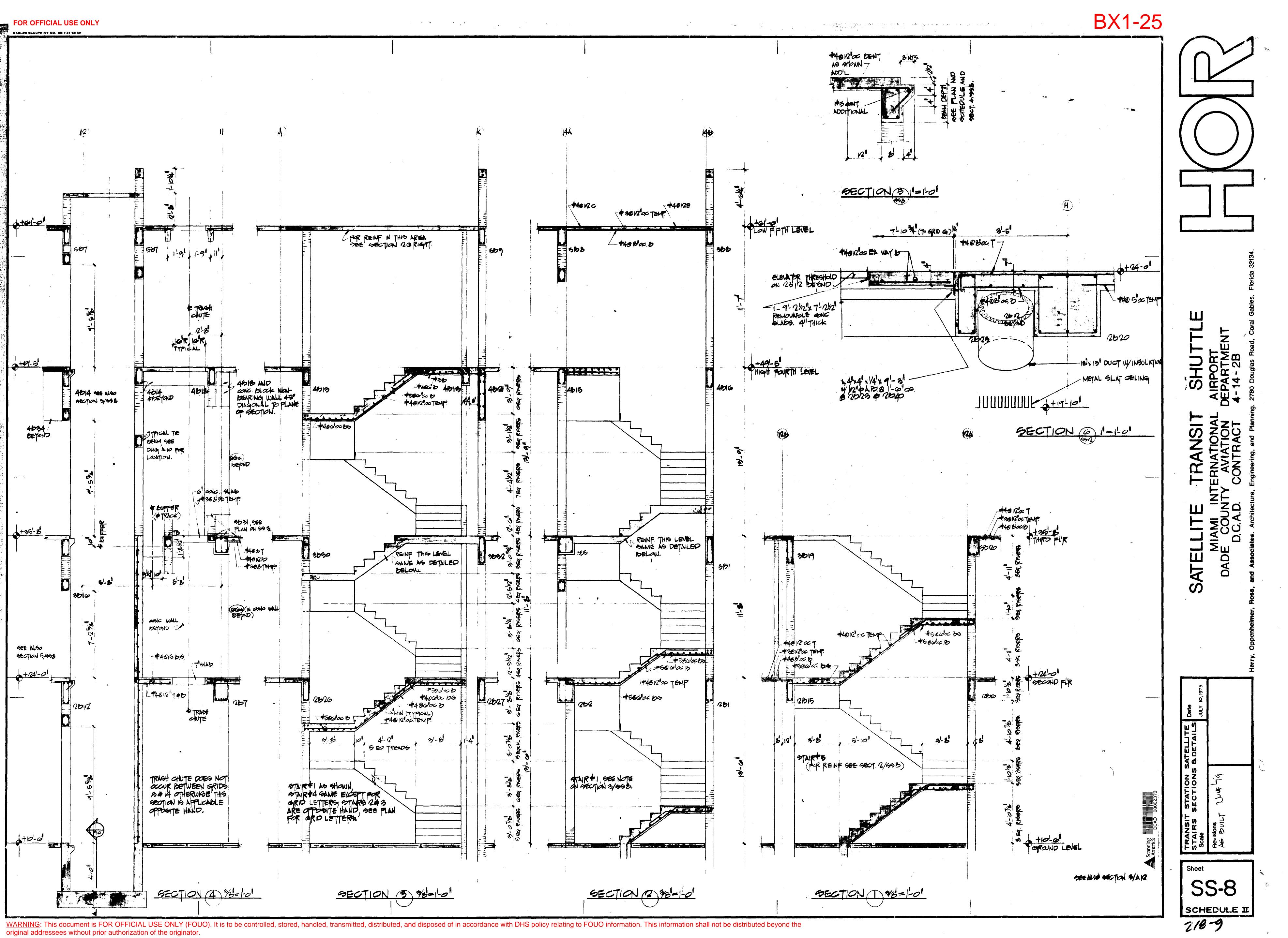
 3B 52  $22 \times 28$  3 + 10 2 + 8 1 

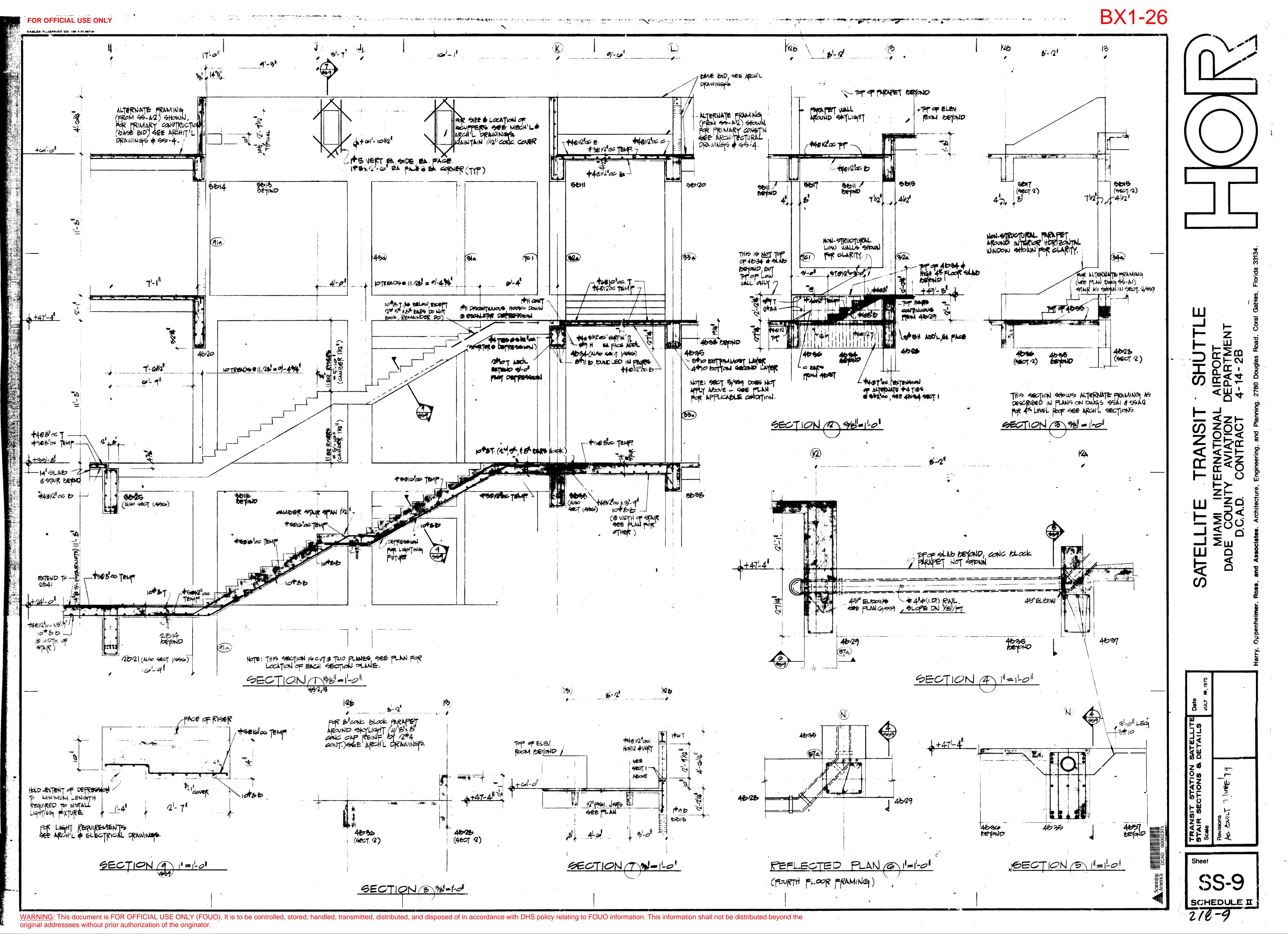
 3B  $5 \cdot 8$   $12 \times 28$  3 + 10 2 + 8 1 
 2+8 +4@12"00 1+5H SECT 5/555 \* 65ECT 12/532, GECT 12/555, 4/559 \*-0N7 NL-046 \*3#€ H 12" \* CANT = KOM 40-9-9#5H SET 9/556 \* 2NT EXAN 415/21 \* 3+5 + 2\*6 7 \* 5 #7 DOT NOST LAYER TET 5/40 1#8 13"

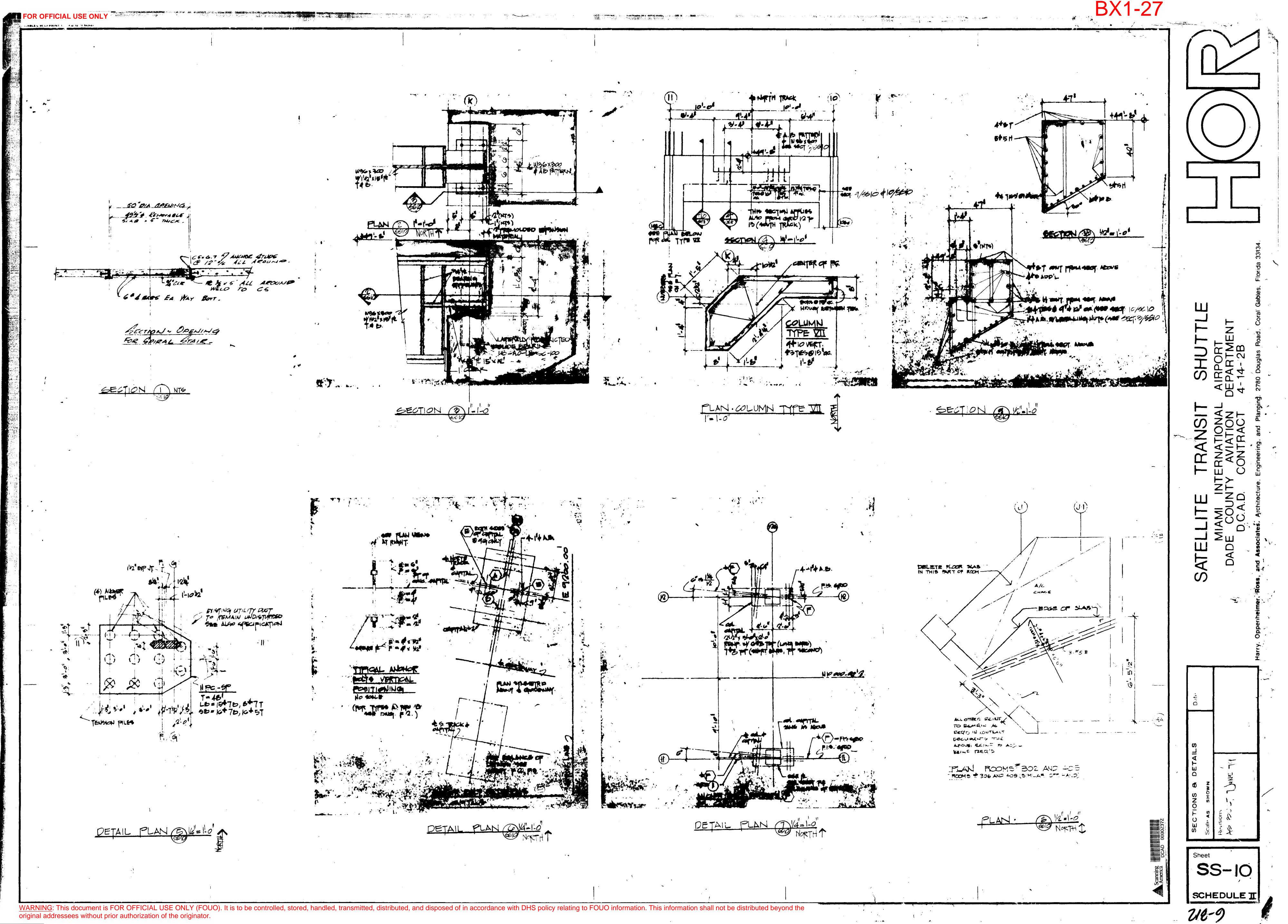
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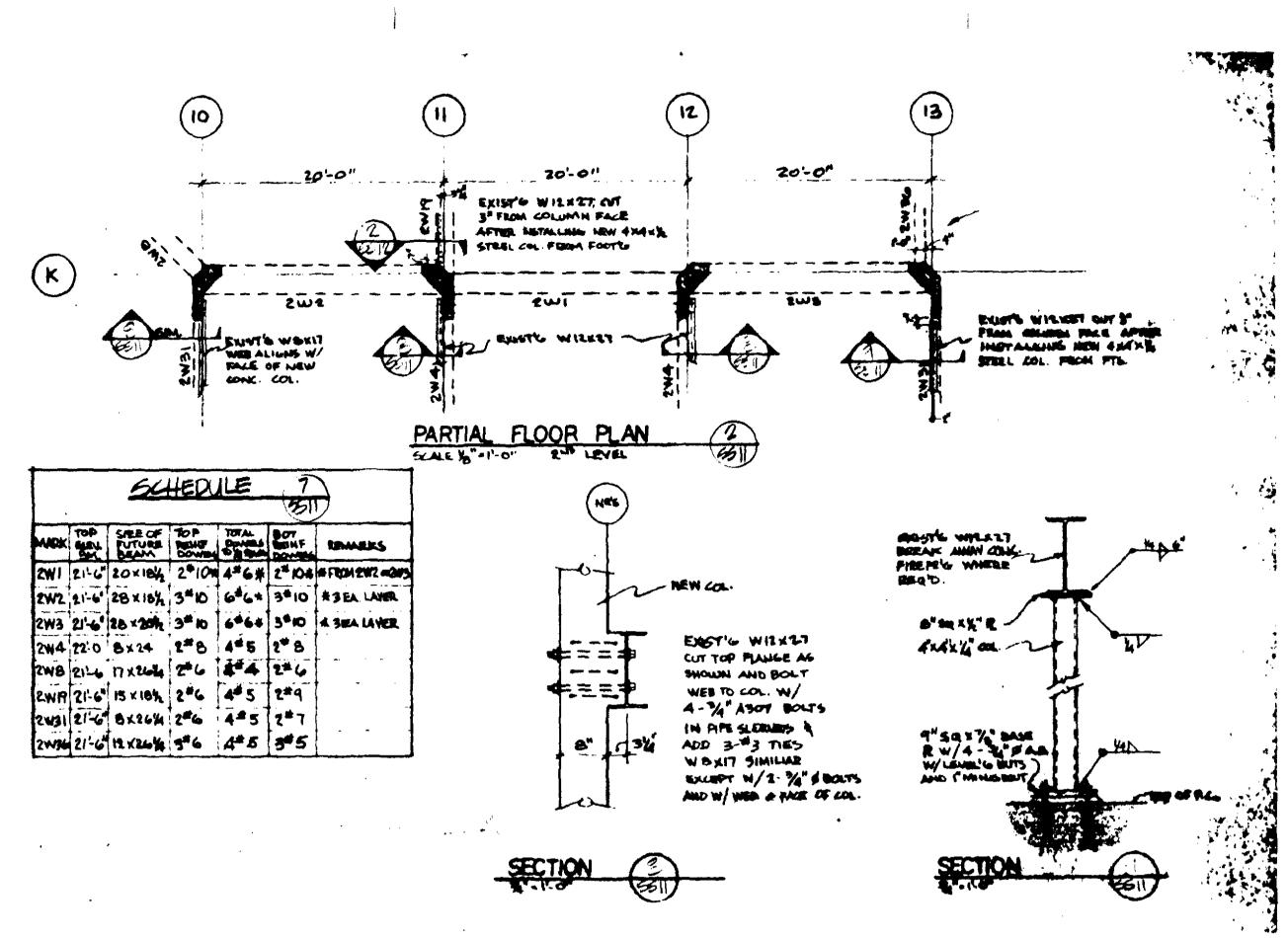
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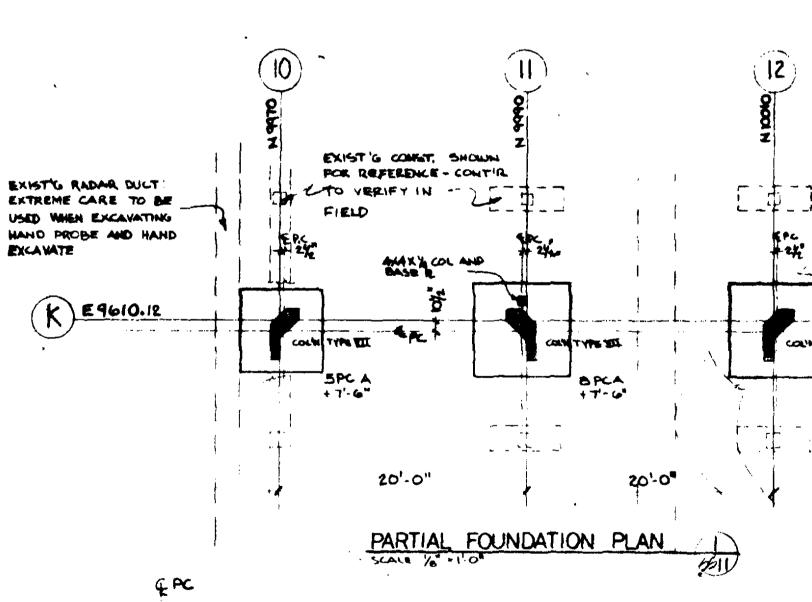


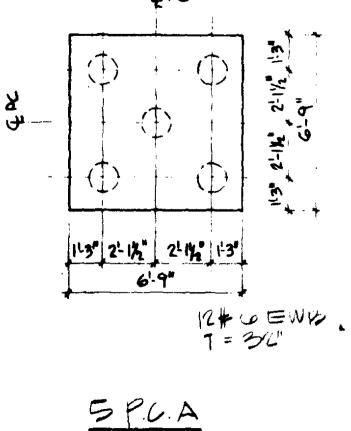




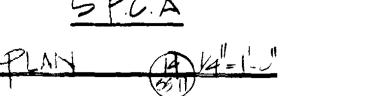










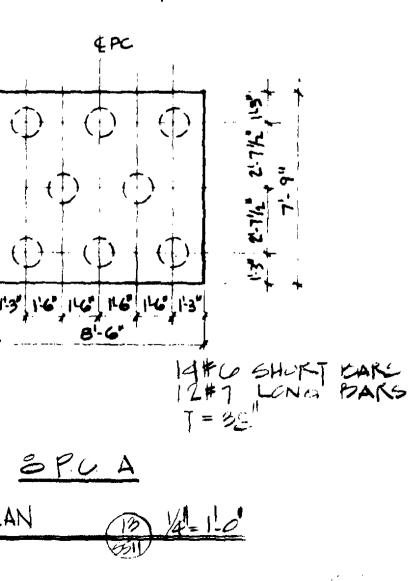


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8PCA +7'-6" AX4 COL 1 BASE R



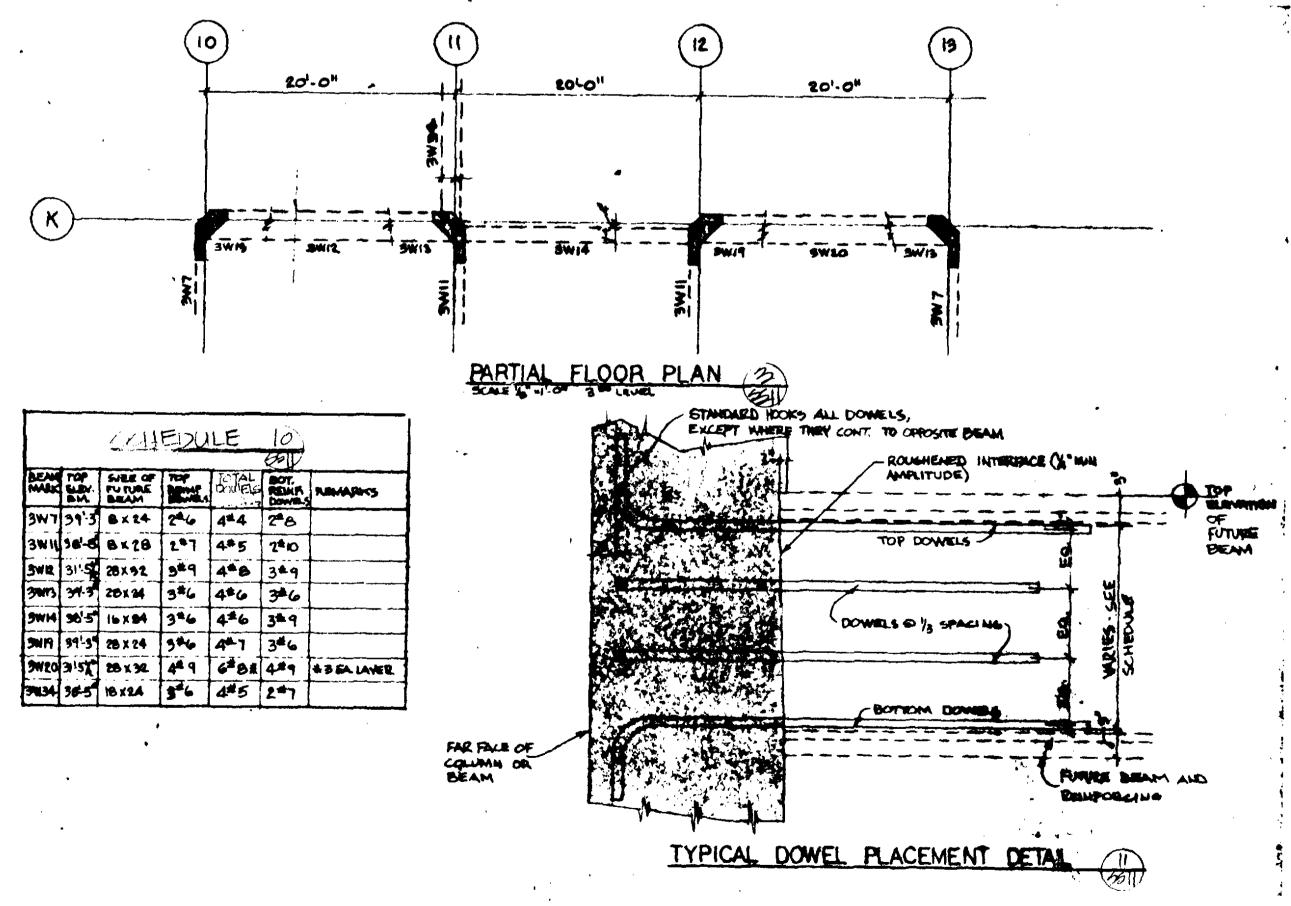
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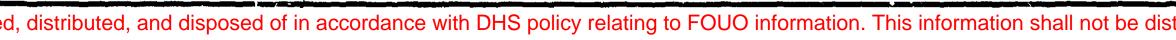
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3W II	56'-8	8×28	247	
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5WH	36'5"	16 × 94	3*6	-
	<b>99'-3'</b>	28 X 24	3#6	
9W20		28 x 32	44 9	
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SEWER PIPE 20#6 short bars 20#6 lang bars T = 32"مسر

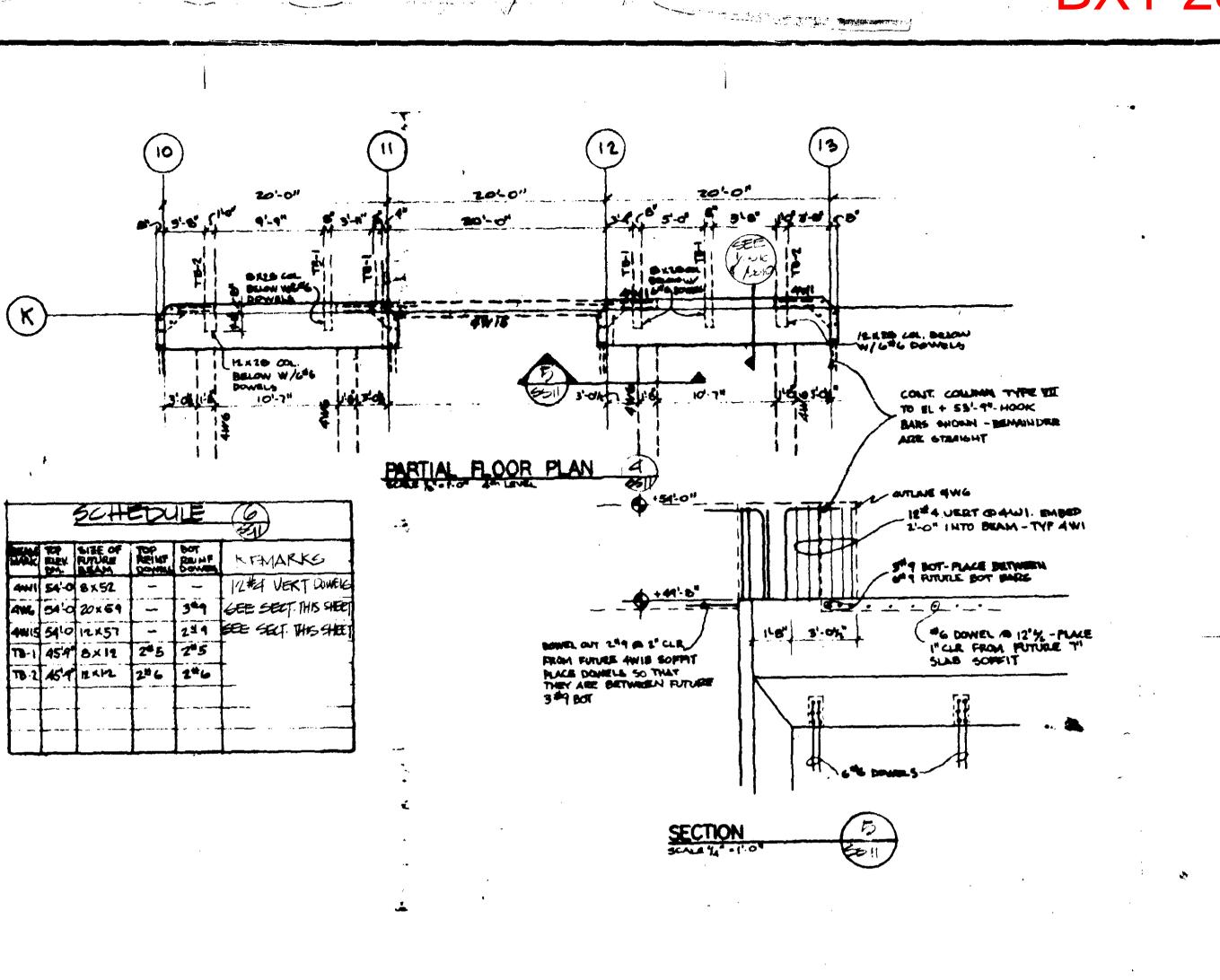
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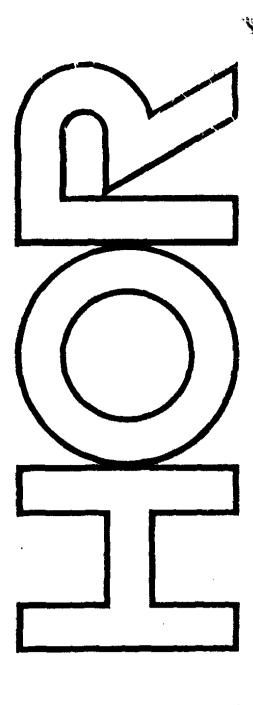
5PC 5P'A' 12, 1/4=1-0 PLAN



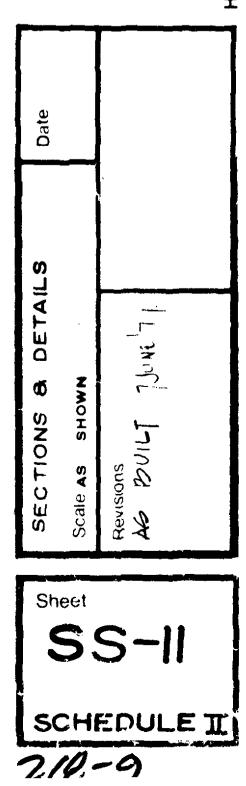
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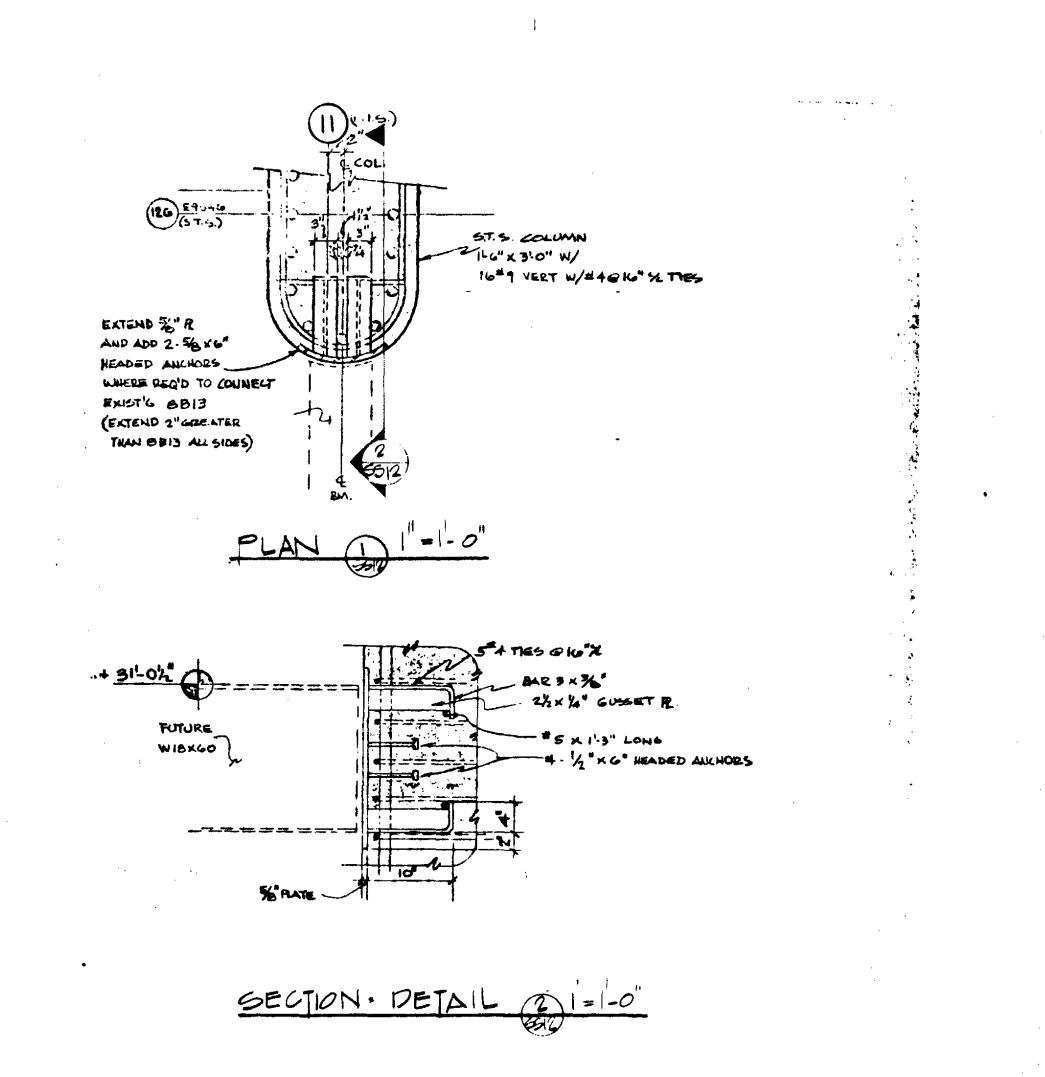


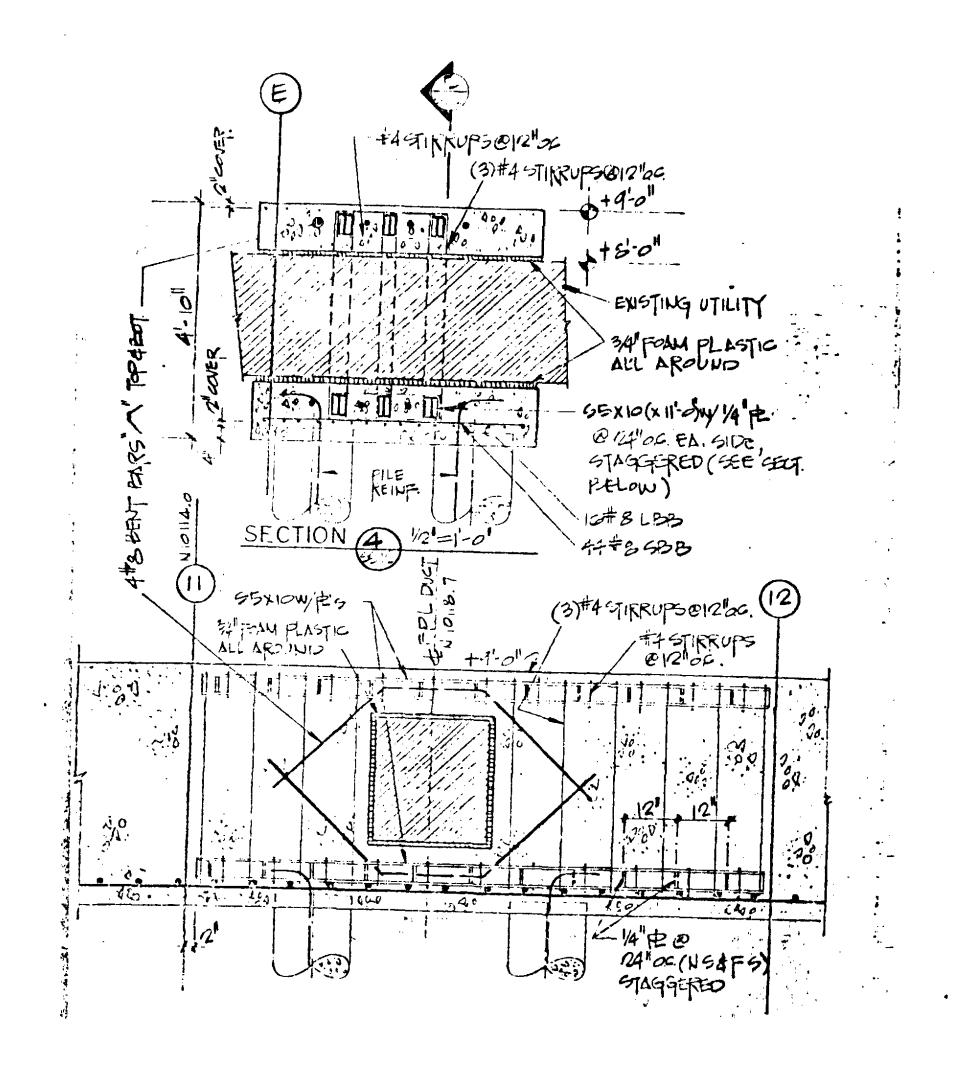




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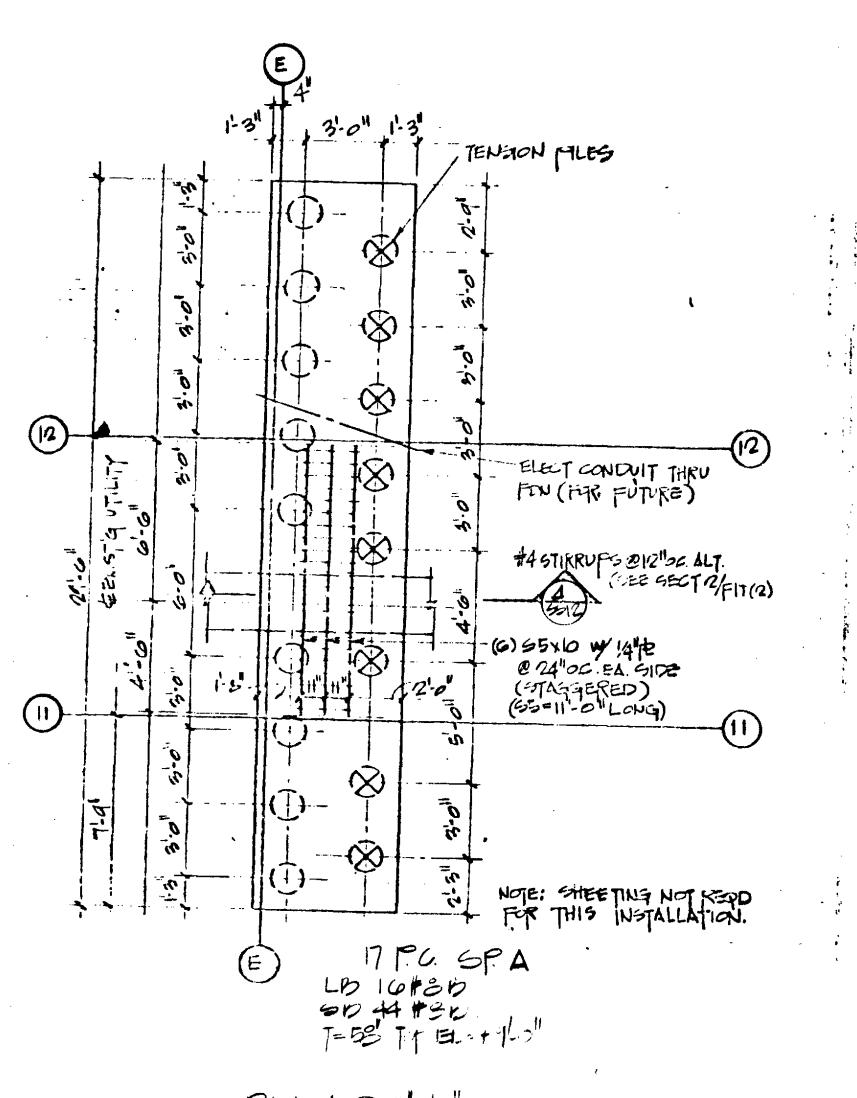


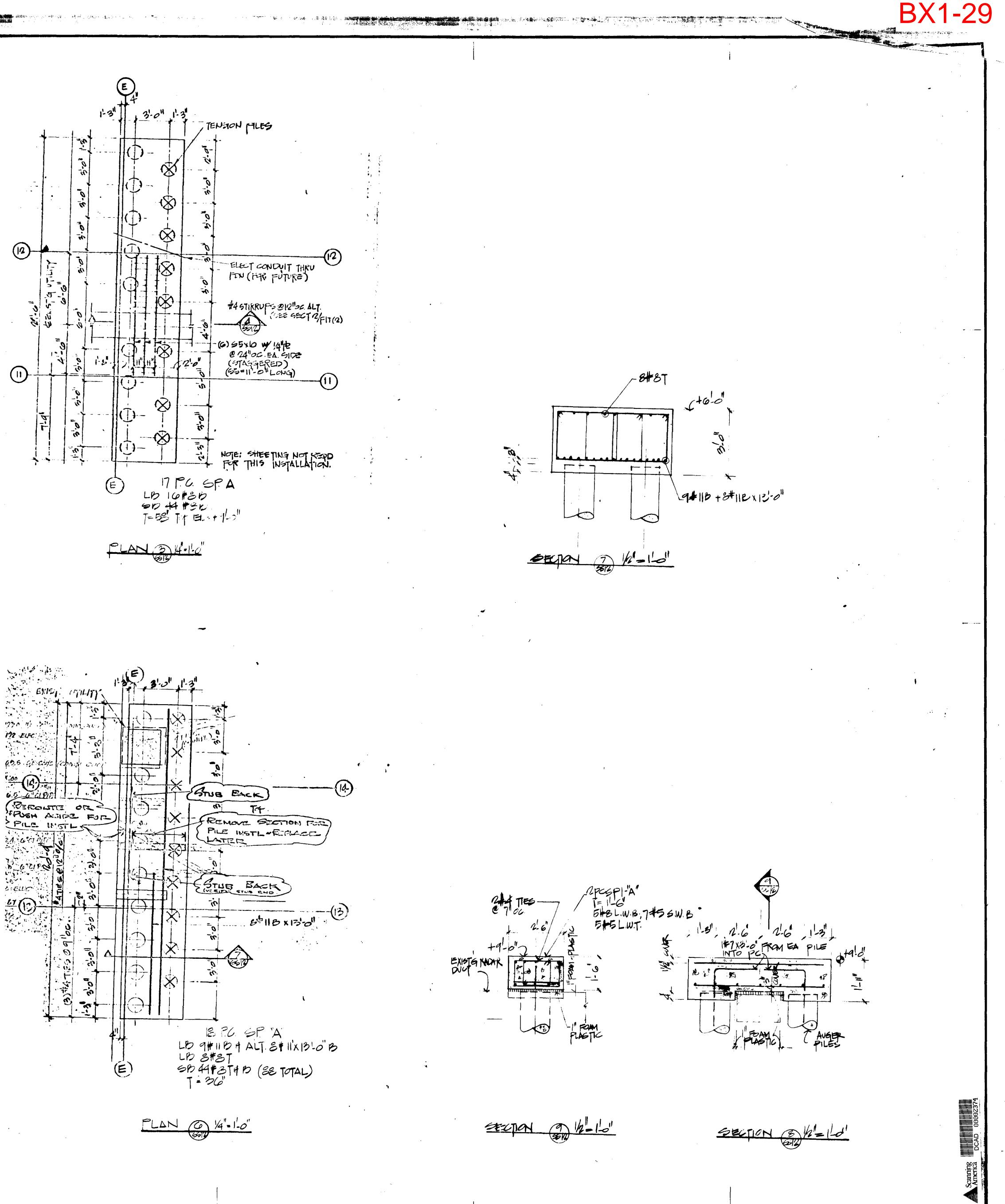
SECTION 5 1/2"=1-0"

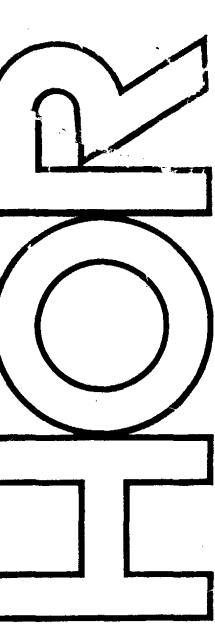
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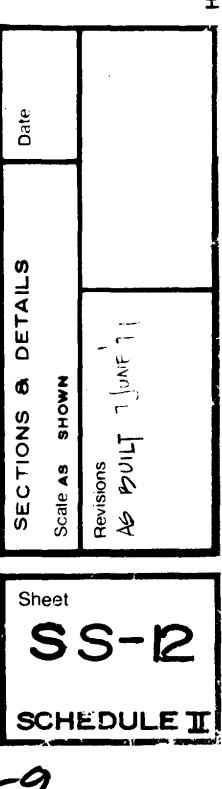
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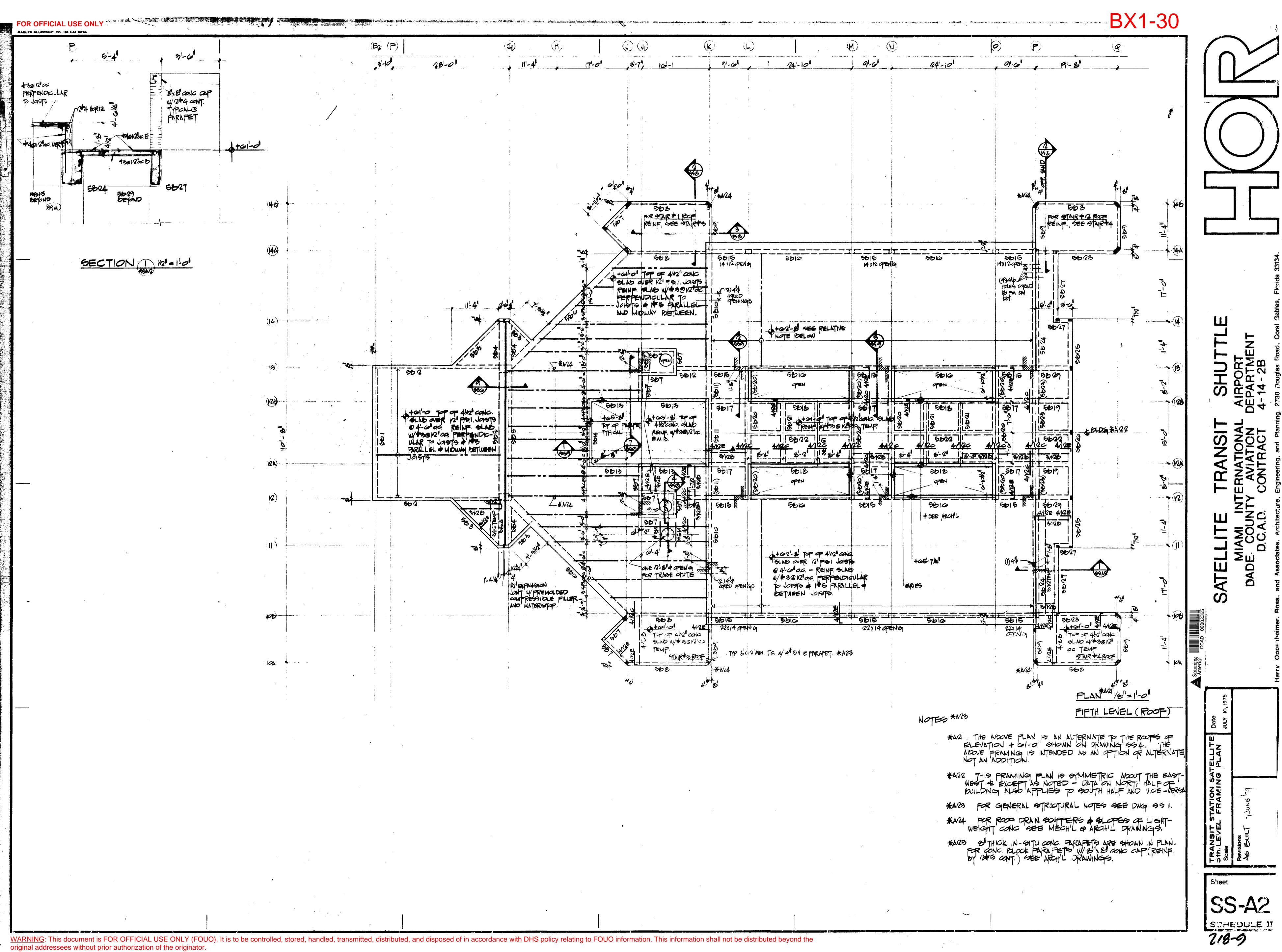






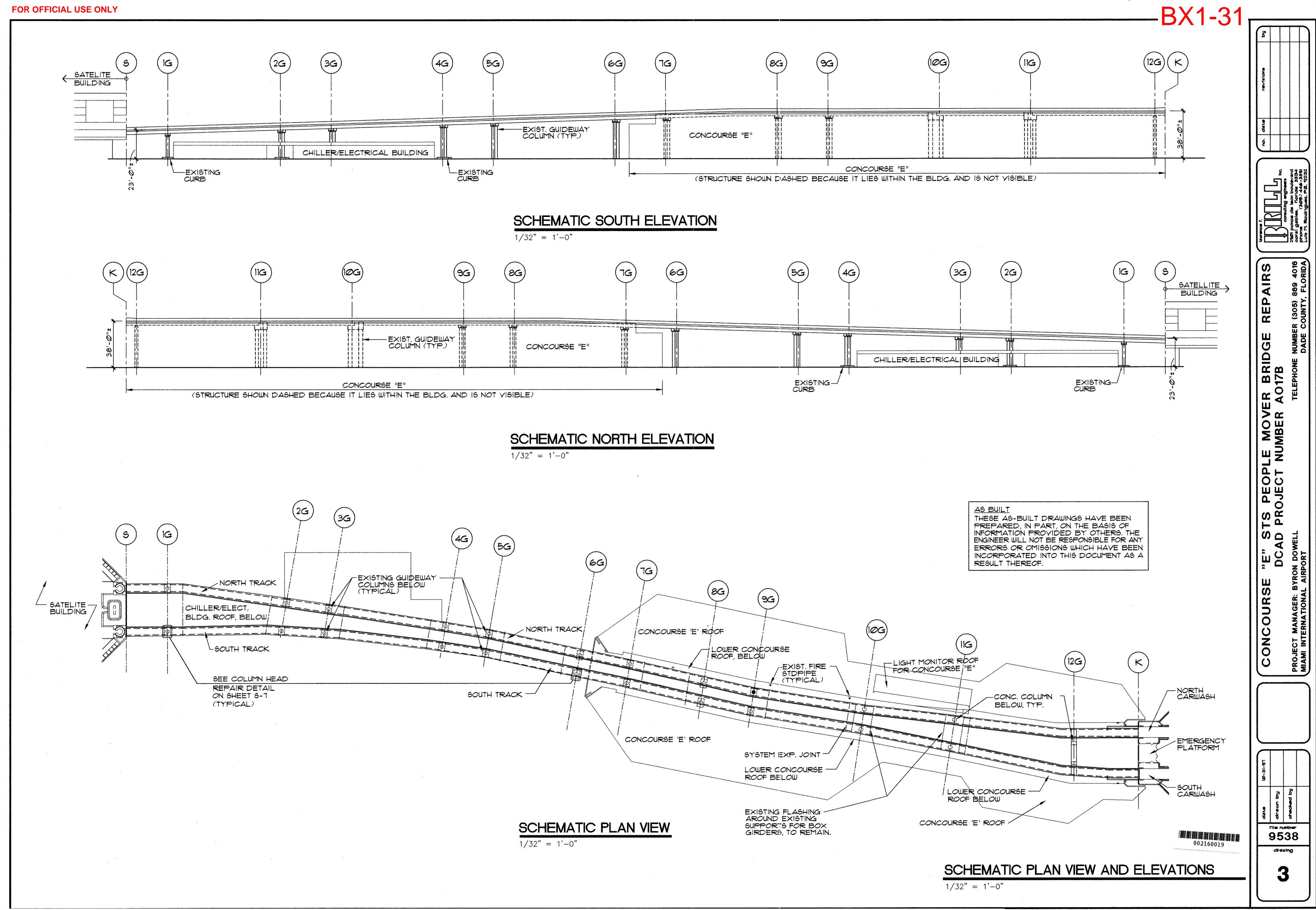


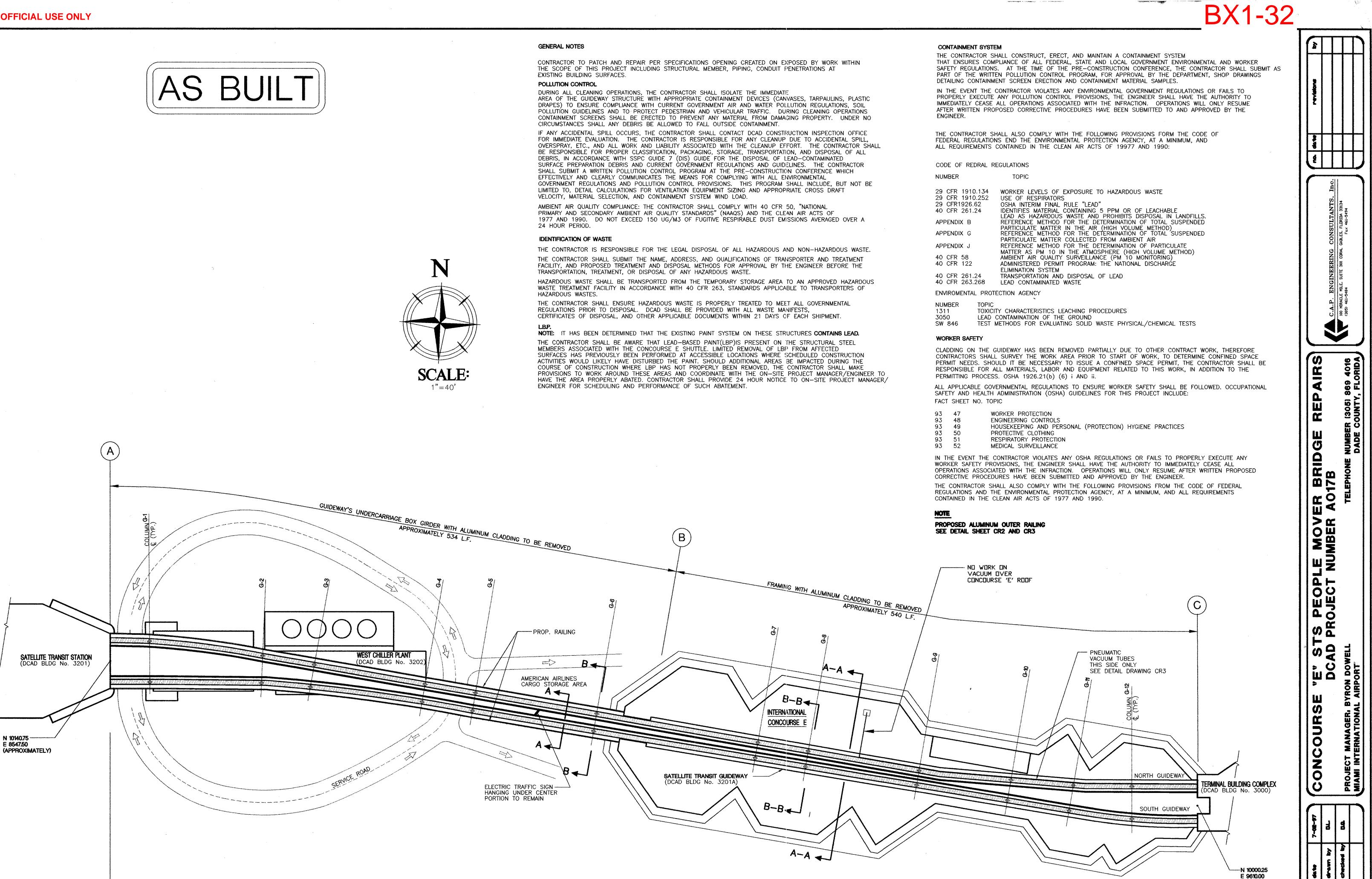




andrain Tagangan







NEW GUARDRAIL AND EXP. METAL TO EXTEND THE FULL LENGTH OF GUIDEWAY APPROXIMATELY 1074 L.F. BOTH SIDES

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

> 002160020

(APPROXIMATELY)

ALBERTO J. CORBALES Civil Engineer No 51895 State of Florida

engineer of record

for the firm 6-9-00

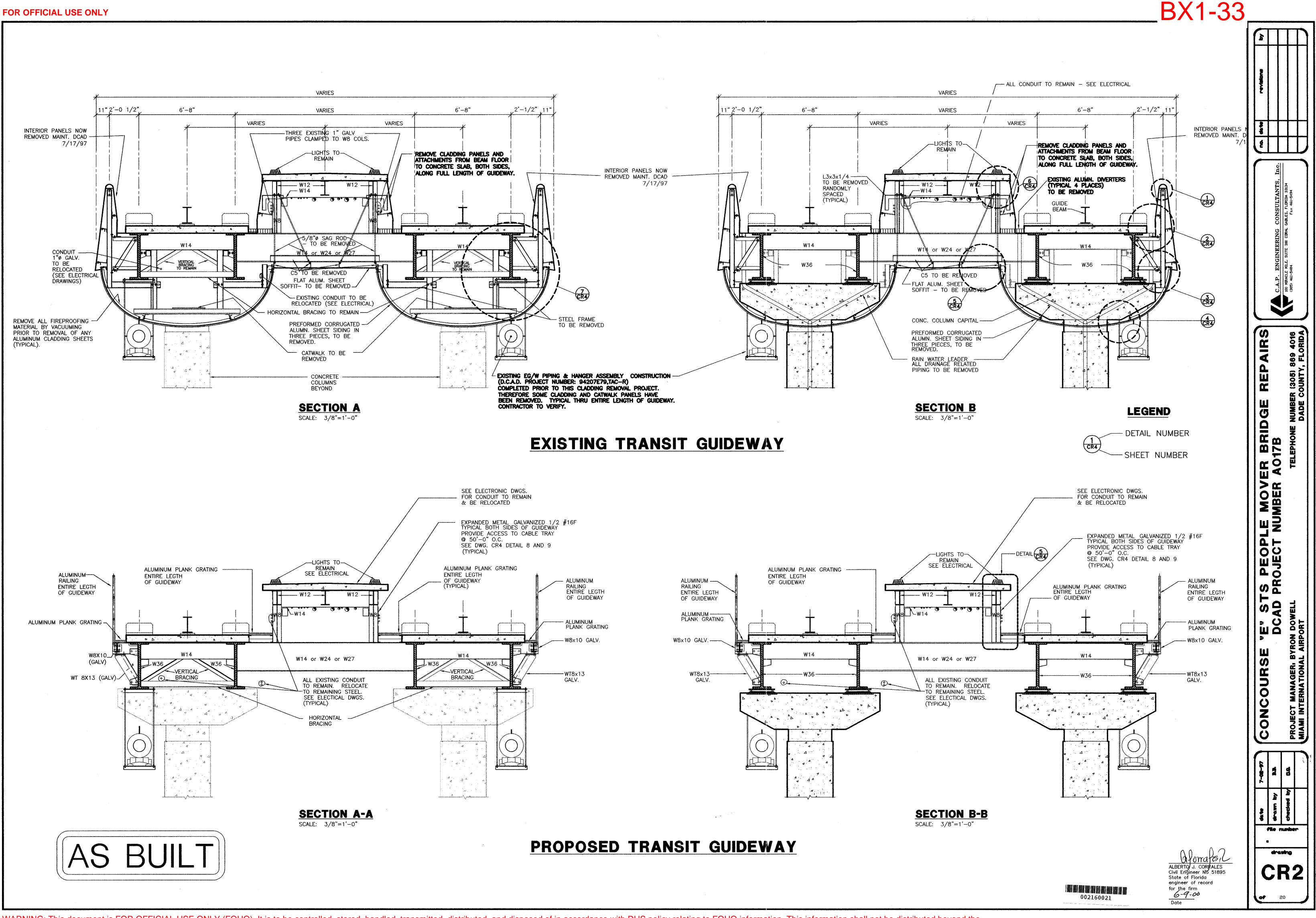
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of



# **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)
- 2) THE CONSTRUCTION OF THE EXISTING ETHYL GLYCOL WATER (EG/W) PIPING AND HANGER ASSEMBLY DESIGNED BY WOLFBERG ALVAREZ AND PARTNERS IS COMPLÈTED.
- AS NOTED, DETAIL 7 ON SHEET CR4 IS AN APPROXIMATE REPRESENTATION OF THE PRESENT GIRDER 3) CONFIGURATION. NO FORMAL SURVEY OF THE PRESENT "AS-BUILT" GIRDER CONFIGURATION HAS BEEN PERFORMED. THE CONTRACTOR IS RESPONSIBLE FOR EVALUATING FIELD CONDITIONS BY VISITING THE SITE PRIOR TO BID.
- SUBMIT ANY MANUFACTURER'S DATA AND SHOP DRAWINGS FOR APPROVAL BY THE CONSTRUCTION INSPECTION 4) ENGINEER BEFORE ANY WORK COMMENCES.
- THE CONTRACTOR SHALL GIVE 48 HOURS ADVANCE NOTICE TO D.C.A.D. AND THE CONSTRUCTION INSPECTION 5) ENGINEER CONCERNING THE CONTRACTOR'S WORK SCHEDULE INCLUDING BUT NOT LIMITED TO LIMITS OF DAILY WORK AND HOURS OF THE DAYS TO BE WORKED. IN ADDITION, THE CONTRACTOR SHALL GIVE WEEKLY SUBMITTALS OF DAILY CONSTRUCTION PROGRESS REPORTS TO THE CONSTRUCTION INSPECTION ENGINEER.
- 6) THE EXPANDED GALV. METAL TO BE INSTALLED UNDER CENTER CONCRETE SLAB (EMERGENCY WALKWAY) SHALL RUN ALONG THE FULL LENGTH OF THE GUIDEWAY, BOTH SIDES. THE EXPANDED GALV. METAL MATERIAL AND SUPPORTS SHALL BE AS PER CONTRACTOR'S SHOP DRAWING AFTER ENGINEER'S APPROVAL.

# 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.
- 2) ALL CONNECTIONS SHALL DEVELOP THE STRENGTH OF THE PART BEING CONNECTED. SHOP CONNECTIONS SHALL BE WELDED. FIELD CONNECTIONS SHALL BE BOLTED UNLESS OTHERWISE NOTED ON THE PLAN.
- ALL STEEL AND BOLTS TO BE ALUMINIZED, HOT-DIP GALVANIZED OR 3) ELECTRO-GALVANIZED.
- 4) SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION OR ERECTION
- OF STRUCTURAL STEEL.

# **ALUMINUM HANDRAIL NOTES**

# WORK INCLUDED

FURNISH AND INSTALL ALUMINUM PIPE RAILINGS AND COMPONENTS. FURNISH GALVANIZED STEEL BOLTS FOR CONNECTION W/ BOLT INSULATOR. SUBMITTALS

## INDICATE COMPONENT DETAILS, MATERIALS, FINISHES, CONNECTION AND JOINING METHODS, AND THE RELATIONSHIP TO ADJOINING WORK. SUBMIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

## MATERIALS AND FINISHES

ALUMINUM EXTRUDED PIPE: ALLOY 6063-832

**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. FITTINGS FITTINGS SHALL BE OF WROUGHT MATERIAL OF ALUMINUM. TEE-FITTINGS AND
- ELBOWS WHICH ARE FABRICATED FROM MORE THAN ONE PIECE SHALL BE OF WELDED CONSTRUCTION WITH NO WELD MARKS VISIBLE WHEN THE FITTING IS INSTALLED.

## CONNECTOR SLEEVES

INTERNAL CONNECTOR SLEEVES SHALL BE OF EXTRUDED ALUMINUM **MOUNTING FLANGES** 

HEAVY DUTY FLOOR FLANGE SHALL BE OF CAST ALUMINUM WITH A SOLID ALUMINUM REINFORCING BAR.

## TOE BOARD

TOE BOARD SHALL BE OF EXTRUDED ALUMINUM.

## HANDRAIL BRACKETS ALUMINUM

## FABRICATION

- FORM ALL CHANGES IN RAIL DIRECTION BY MITER ELBOWS. CUT MATERIAL SQUARE AND REMOVE BURRS FROM ALL EXPOSED EDGES, WITH NO CHAMFER.
- MAKE EXPOSED JOINTS BUTT TIGHT AND FLUSH.
- CLOSE EXPOSED ENDS OF PIPE BY USE OF APPROPRIATE END CAP. VERIFY DIMENSIONS ON SITE PRIOR TO SHOP FABRICATION.

# DISSIMILAR METALS

ALL STEEL COMPONENT IN CONTACT WITH ALUMINUM SHALL BE ALUMINIZED, HOT-DIP GALVANIZED, OR ELETRO-GALVANIZED.

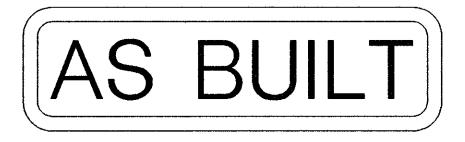
# INSTALLATION

INSTALL IN ACCORDANCE WITH SHOP DRAWINGS. EXPANSION JOINTS SHALL BE PROVIDED AS NEEDED TO ALLOW FOR THERMAL EXPANSION OR CONTRACTION. EXPANSION JOINTS SHOULD BE PROVIDED FOR

STRUCTURE PROVIDES EXPANSION JOINTS. IF A JOINT IS PROVIDED EVERY 20 FEET, THE WIDTH OF THE GAP SHOULD ALLOW 1/8" EXPANSION FOR EACH 40'F OF EXPECTED TEMPERATURE RISE. TO MAKE AN EXPANSION JOINT, THE INTERNAL CONNECTOR SLEEVE IS LEFT UNATTACHED AT ONE END SO THAT IT IS FREE TO MOVE IN AND OUT OF THE PIPE. CONTINUOUS RUNS IN EXCESS OF 40 FEET OR AT PLACES WHERE BUILDING AND BRIDGE

# REPAIR OF DEFECTIVE WORK

REMOVE STAINED OR OTHERWISE DEFECTIVE WORK AND REPLACE WITH MATERIAL THAT MEETS SPECIFICATION REQUIREMENTS.

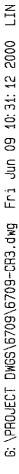


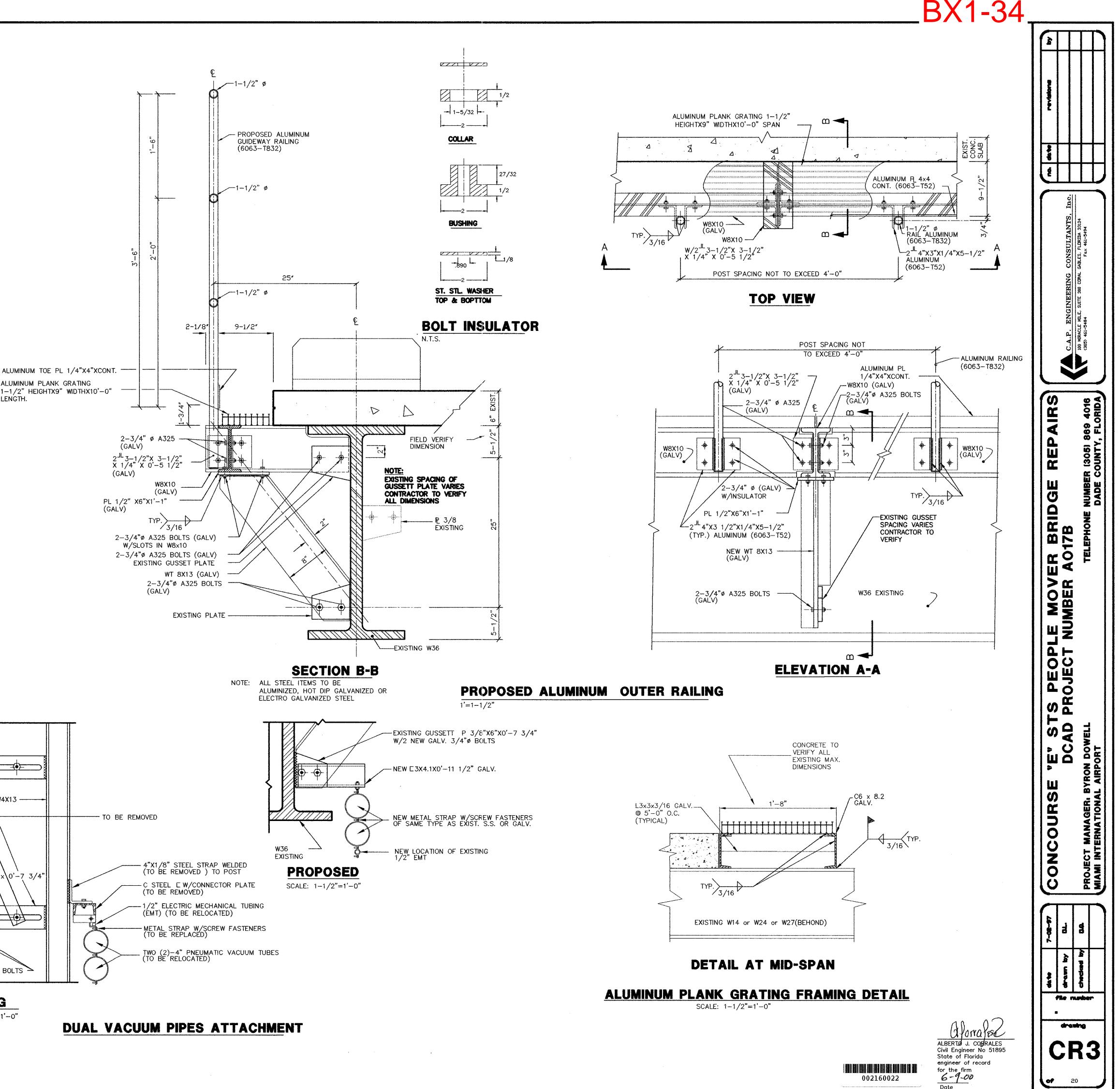
\* \* \* \* A a W4X13 ----- PLATE TO REMAIN ₽. 3/8" x &" x\0'-7 3/4" (2)-3/4"ø X 2-1/4" LG. BOLTS - TO BE REMOVED

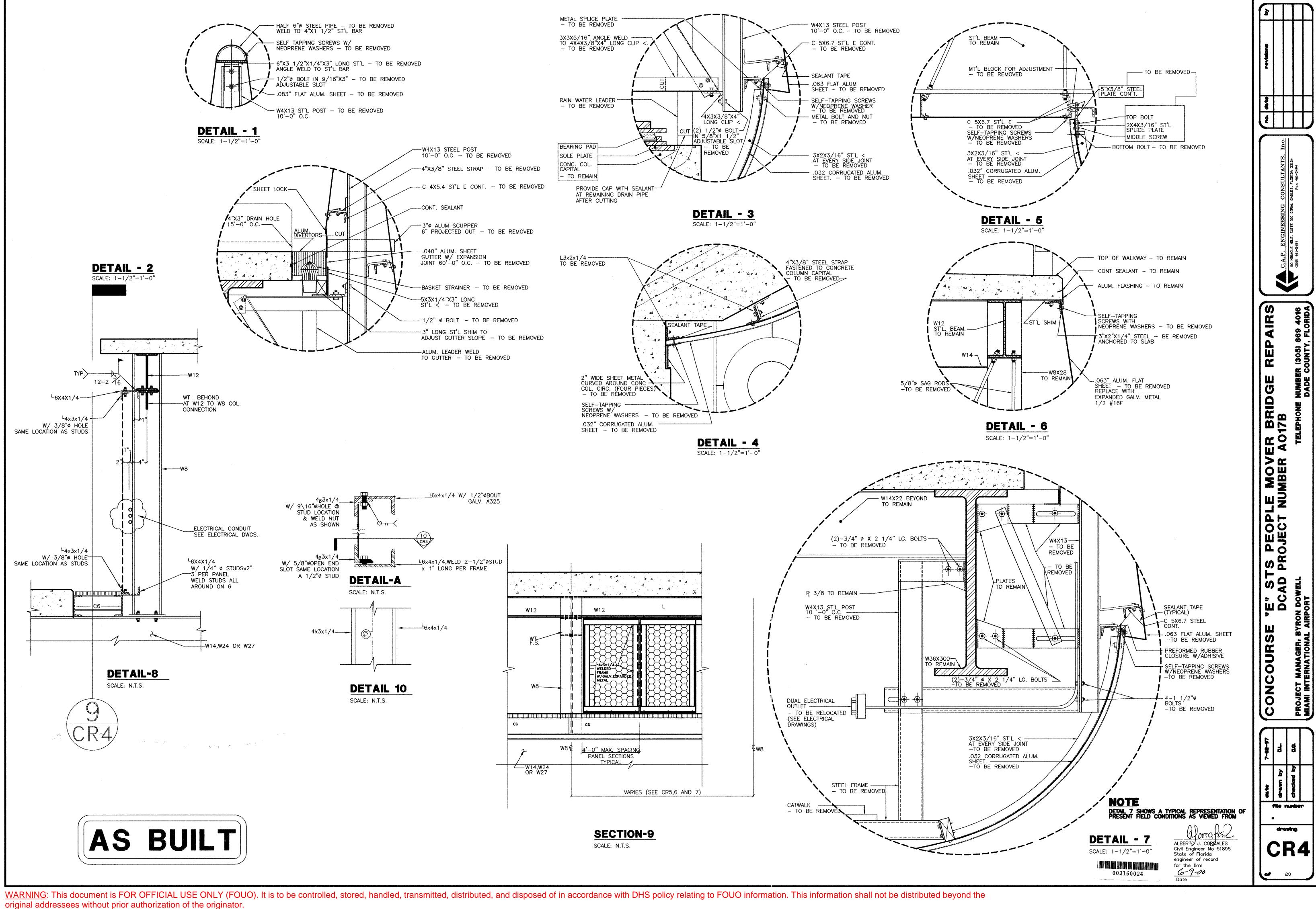


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ALUMINUM PLANK GRATING 1-1/2" HEIGHTX9" WIDTHX10'-0" LENGTH.





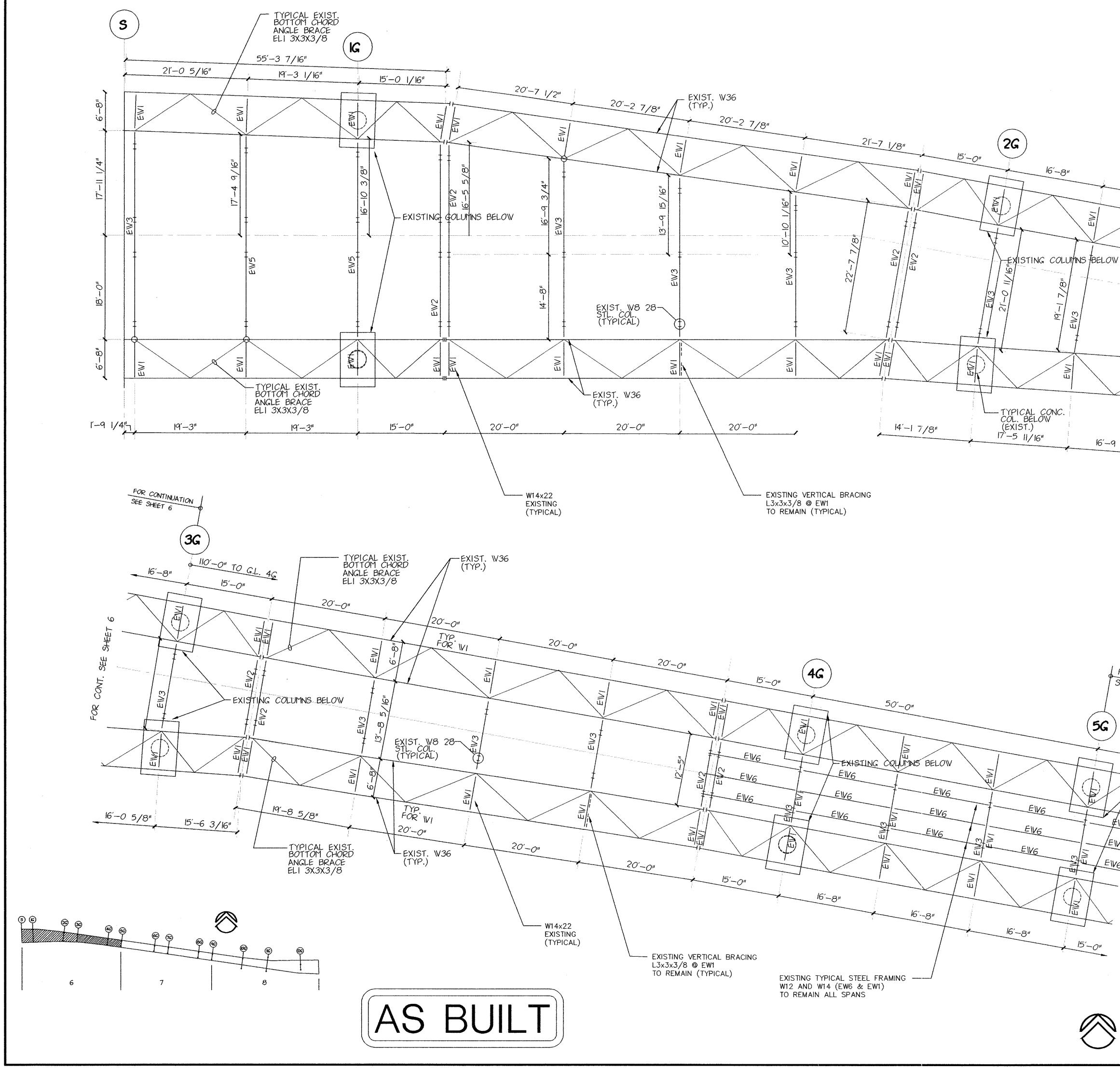


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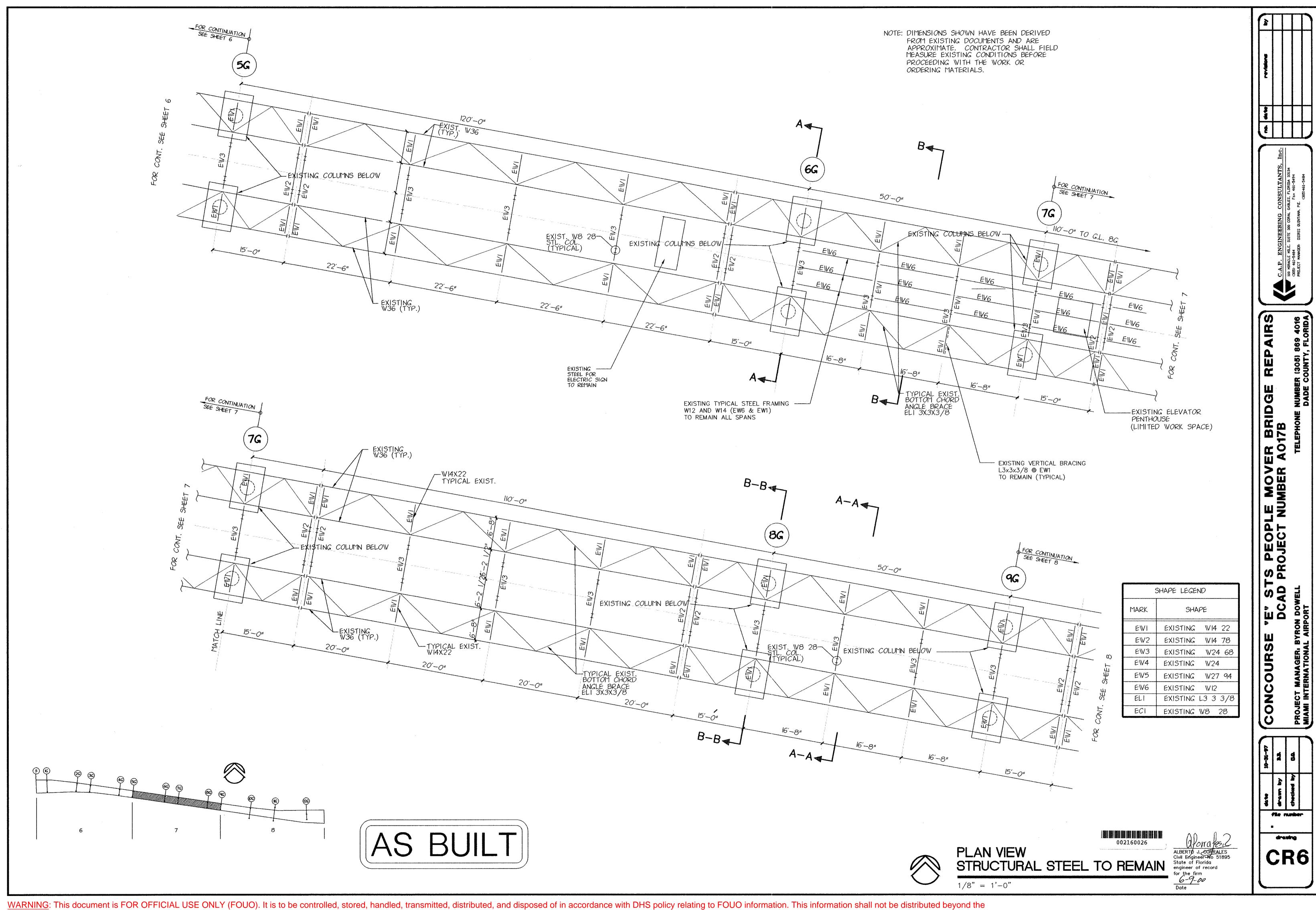
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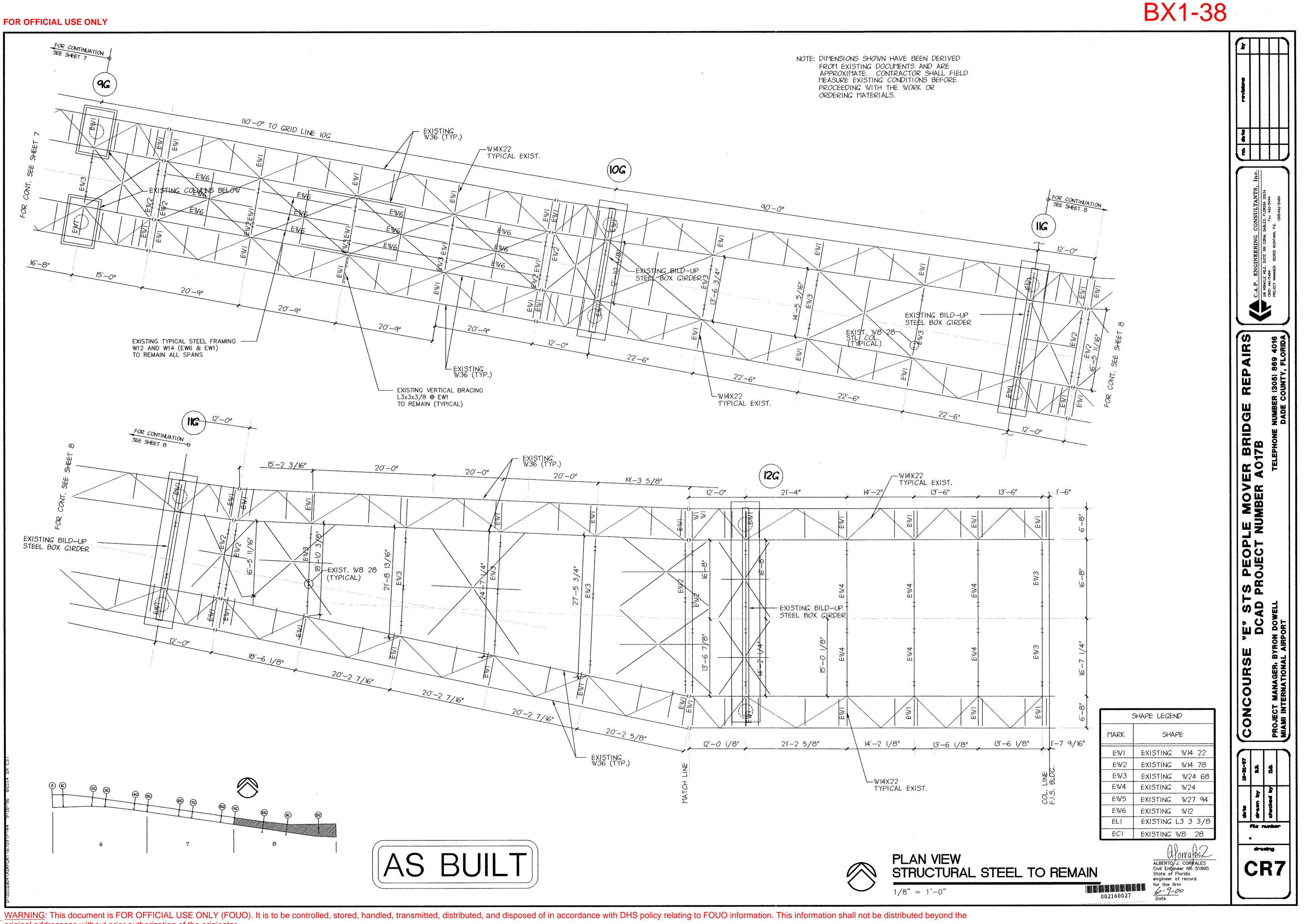


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**BX1-36** NOTE: DIMENSIONS SHOWN HAVE BEEN DERIVED à FROM EXISTING DOCUMENTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK OR ORDERING MATERIALS. 4 49 SEE SHEET 6 é (**3**G 16'-8" 110'-0" TO G.L. 4G *16′*-8″ ULTAN  $\mathbb{N}$ 15'-0" CONSU E N A 2 ប់ ន្ត្រី ខ្លី -EXISTING COLUMNS BELOW I ( ) 4016 ORIDA AIR REP (1305) OUNTY 16'-9 1/8" сŏ 16'-0 5/8" 15'-6 3/16" NUMBI DADE BRIDGI 17B STS PEOPLE MOVER AD PROJECT NUMBER AO VELL - DCAD WEST CHILLER PLANT BELOW GUIDEWAY. ALL EXISTING CONDUIT CONNECTIONS FROM CHILLER PLANT TO BE RELOCATED IF EXISTING CONNECTION IS TO STRUCTURAL STEEL BEING REMOVED. RELOCATE CONDUIT TO STRUCTRUAL STEEL REMAINING IN PLACE BY MECHANICALLY FASTENED CONNECTIONS ONLY. SEE ELECTRICAL DRAWINGS. SEE SHEET 7 Щ. (5G Ъ Ю MANAGER. BYRON ERNATIONAL AIRP 120'-0" S CONCOUR Þ - EXISTING COLUMNS BELOW SHAPE LEGEND MARK INT SHAPE £₩6 PROJEC EIV6 EWI EXISTING WI4 22 EW2 EXISTING WI4 78 EW6 EW3 EXISTING W24 68 EXISTING W24 EW4 \* 2 8 EW5 EXISTING W27 94 EW6 EXISTING W12 ELI EXISTING L3 3 3/8 15'-0" ECI EXISTING W8 28 8 8 6 file number 002160025 drawing ALBERTO J. CORRALES Civil Engineer No 51895 State of Florida PLAN VIEW CR5 STRUCTURAL STEEL TO REMAIN engineer of record for the firm 6-9-00 Date 1/8" = 1'-0"



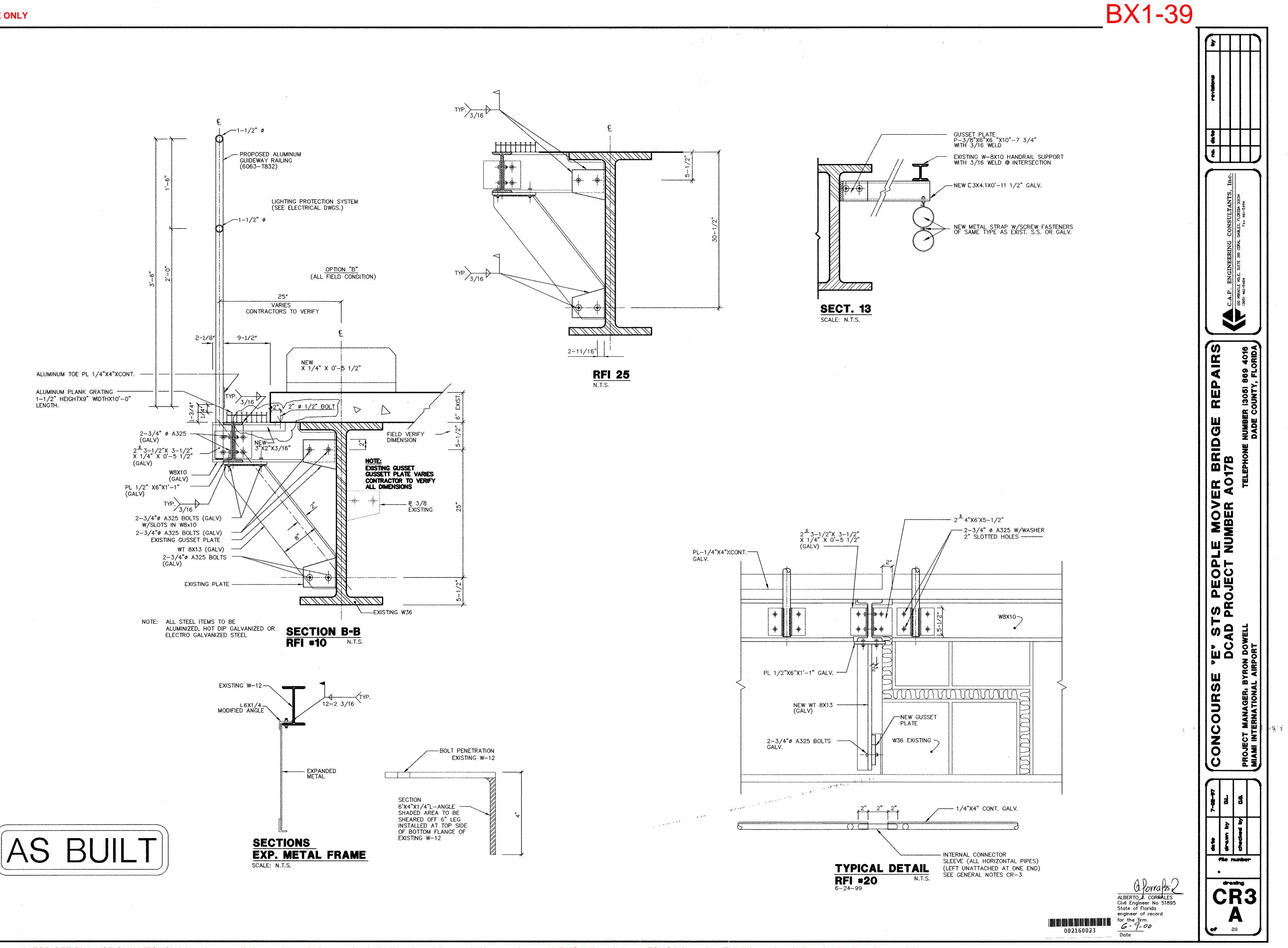
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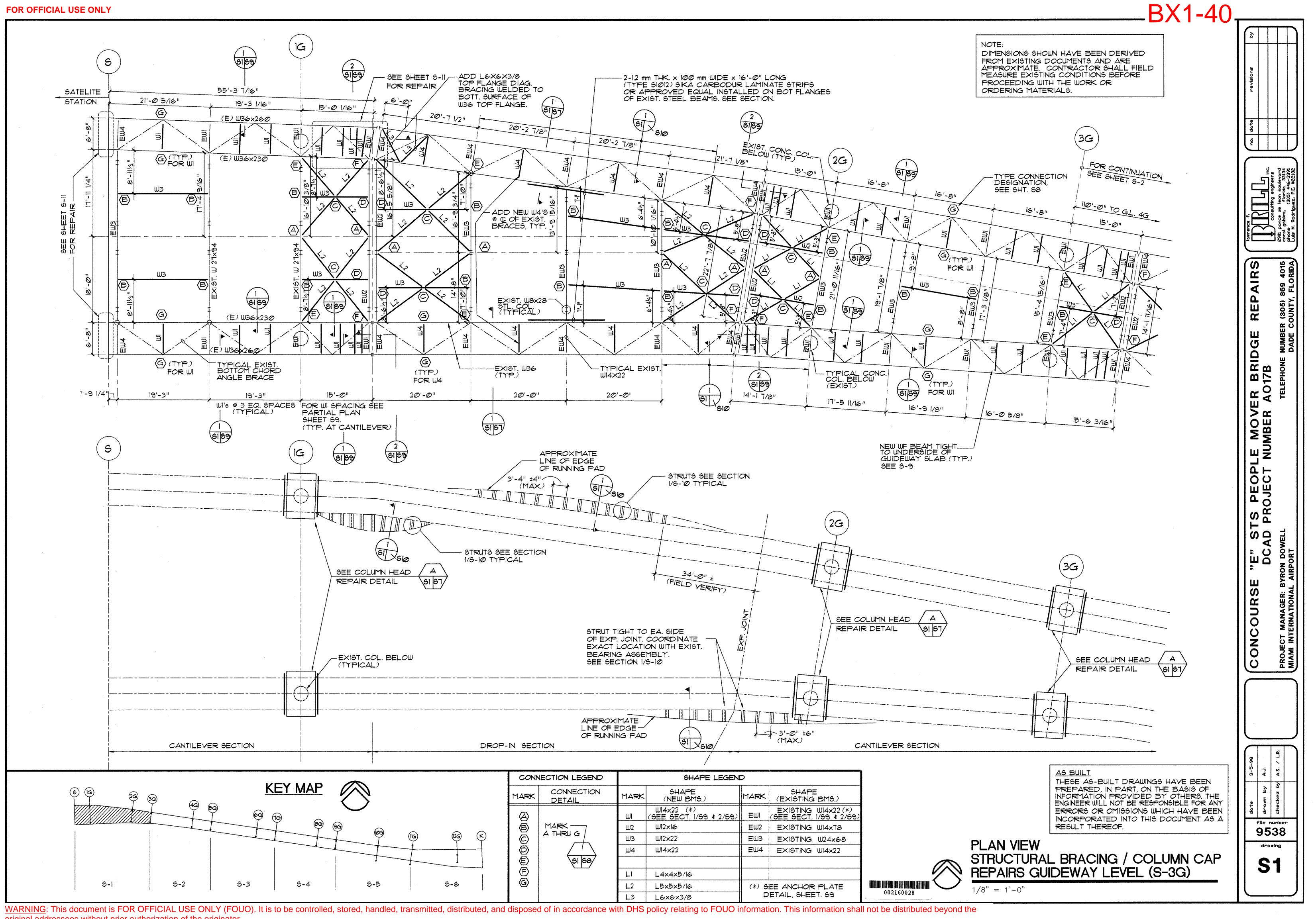
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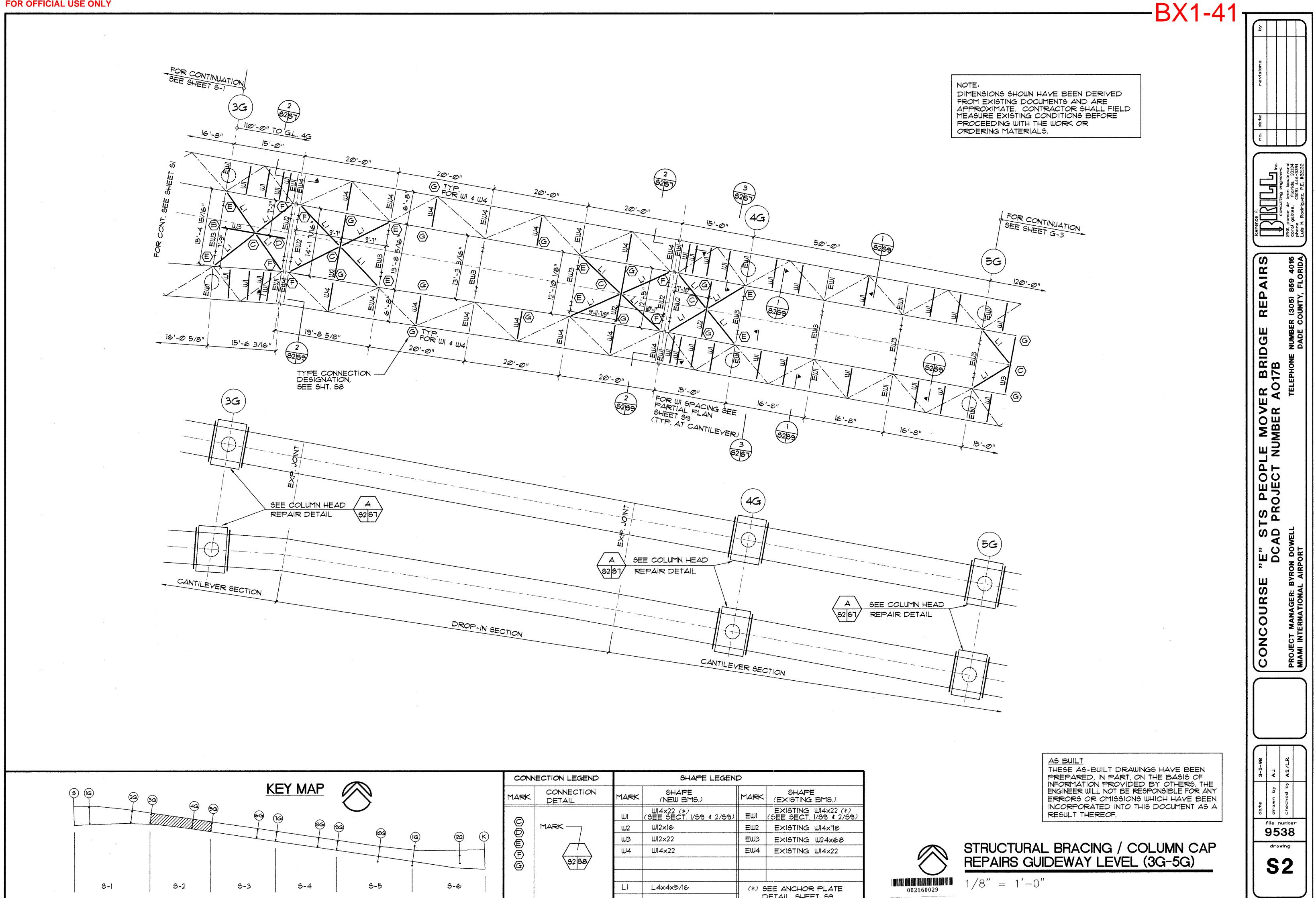
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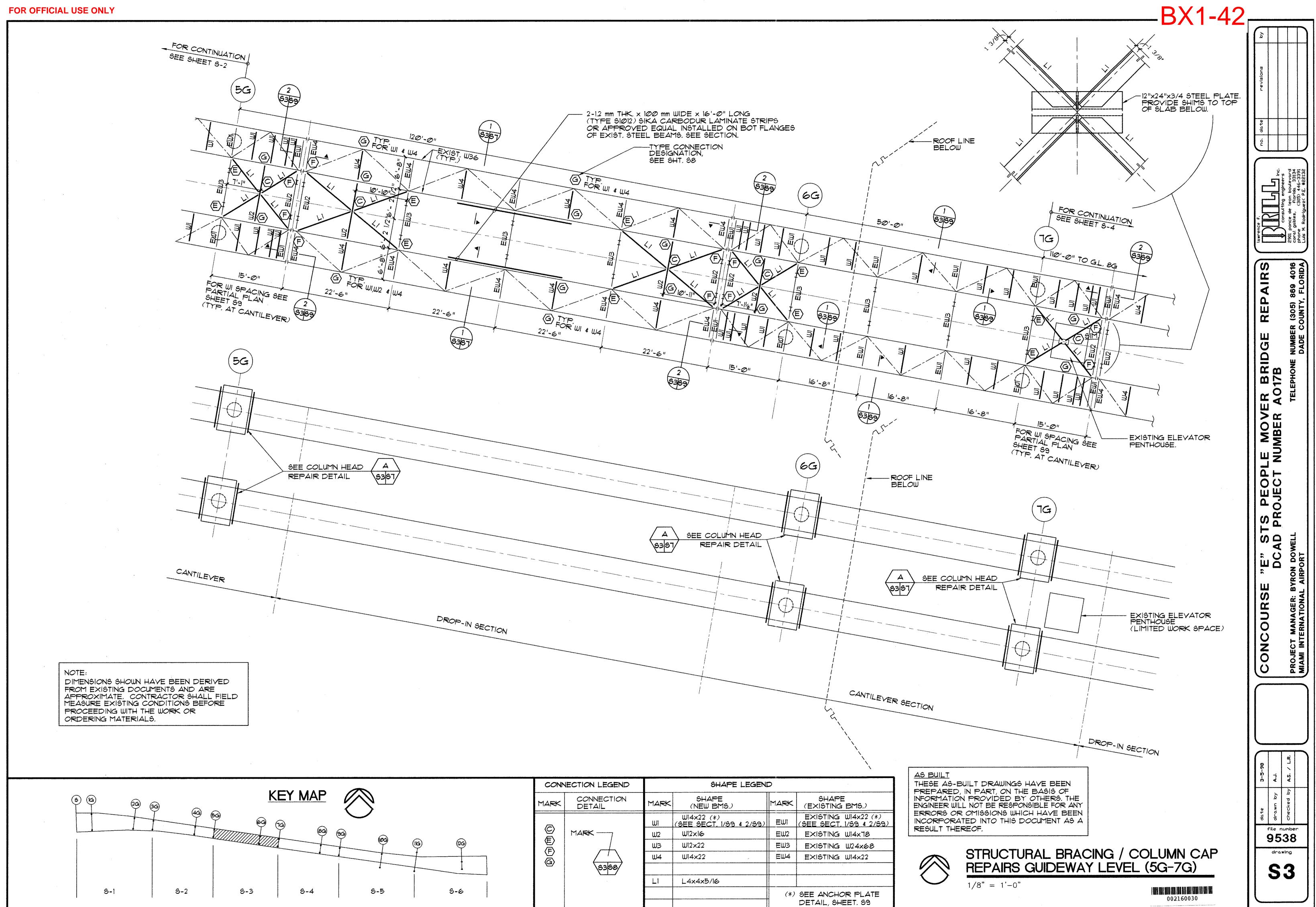
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		MARK	CONNECTION DETAIL	MARK	SHAPE (NEW BMS.)	MARK	SHAPE (EXISTING BMS.)				
		(A)		ωı	WI4x22 (*) (SEE SECT. 1/59 \$ 2/59)	EWI	EXISTING W14x22 (*) (SEE SECT. 1/59 \$ 2/59)				
		B	MARK	W2	W12×16	EW2	EXISTING W14x78				
)	(2G) (K)	©		W3	W12×22	EW3	EXISTING W24x68				
			S1  58	W4	W14×22	EW4	EXISTING WI4x22				
		Ē		L1	L4x4x5/16						
	5-6	G		L2	L5x5x5/16	(*) SEE ANCHOR PLATE					
				L3	L6×6×3/8		ETAIL, SHEET, S9	×			

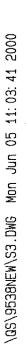


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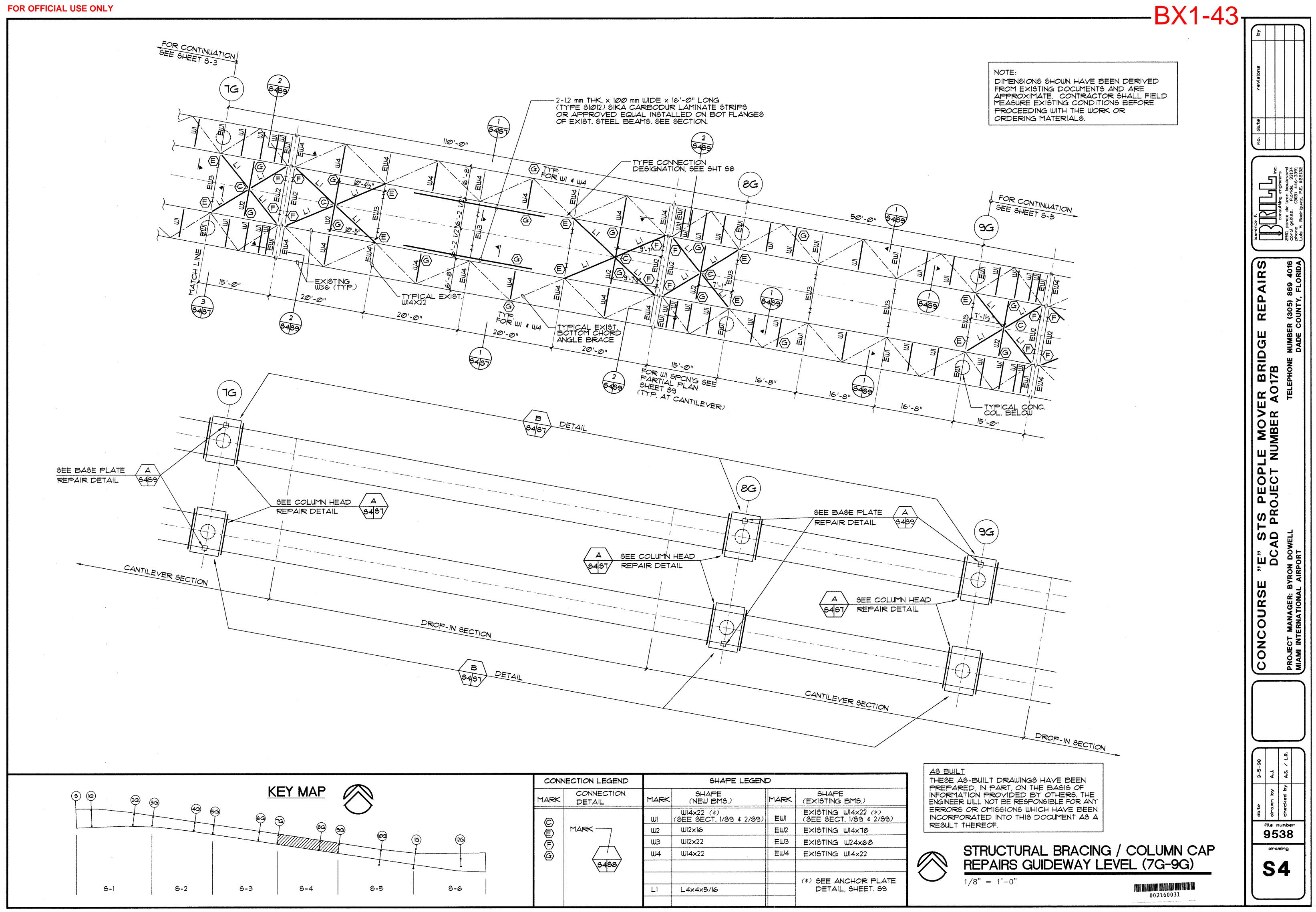
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	CONN	ECTION LEGEND		SHAPE LEGEND						
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	Ø	MARK	W2	W12×16	EW2	EXISTING WI4x78				
(2G K)			WЗ	W12×22	EW3	EXISTING W24x68				
	F	52 58	₩4	WI4×22	EW4	EXISTING WI4x22				
	G									
5-6				L4x4x5/16	(*) SEE ANCHOR PLATE					
					DETAIL, SHEET. 59					



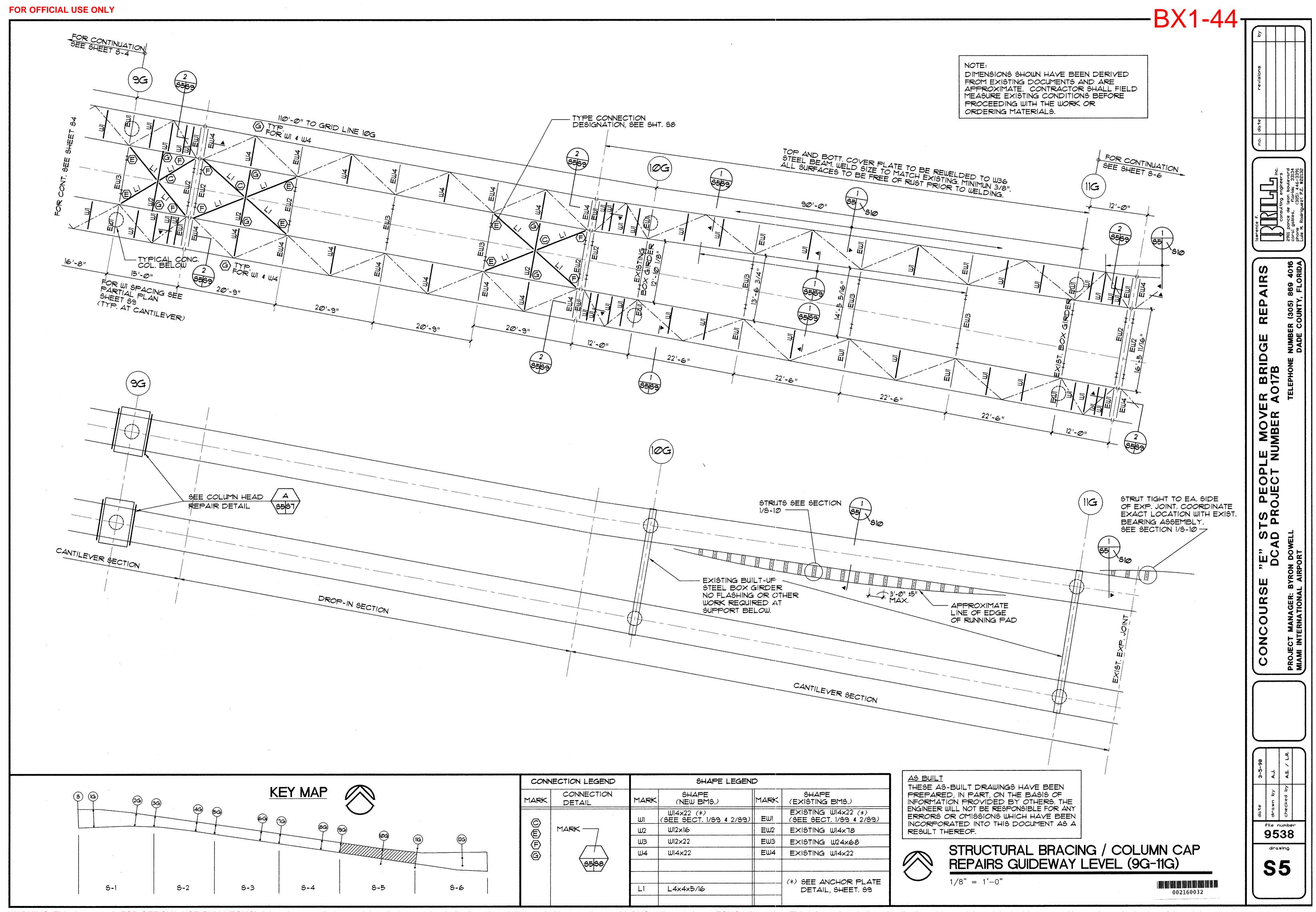


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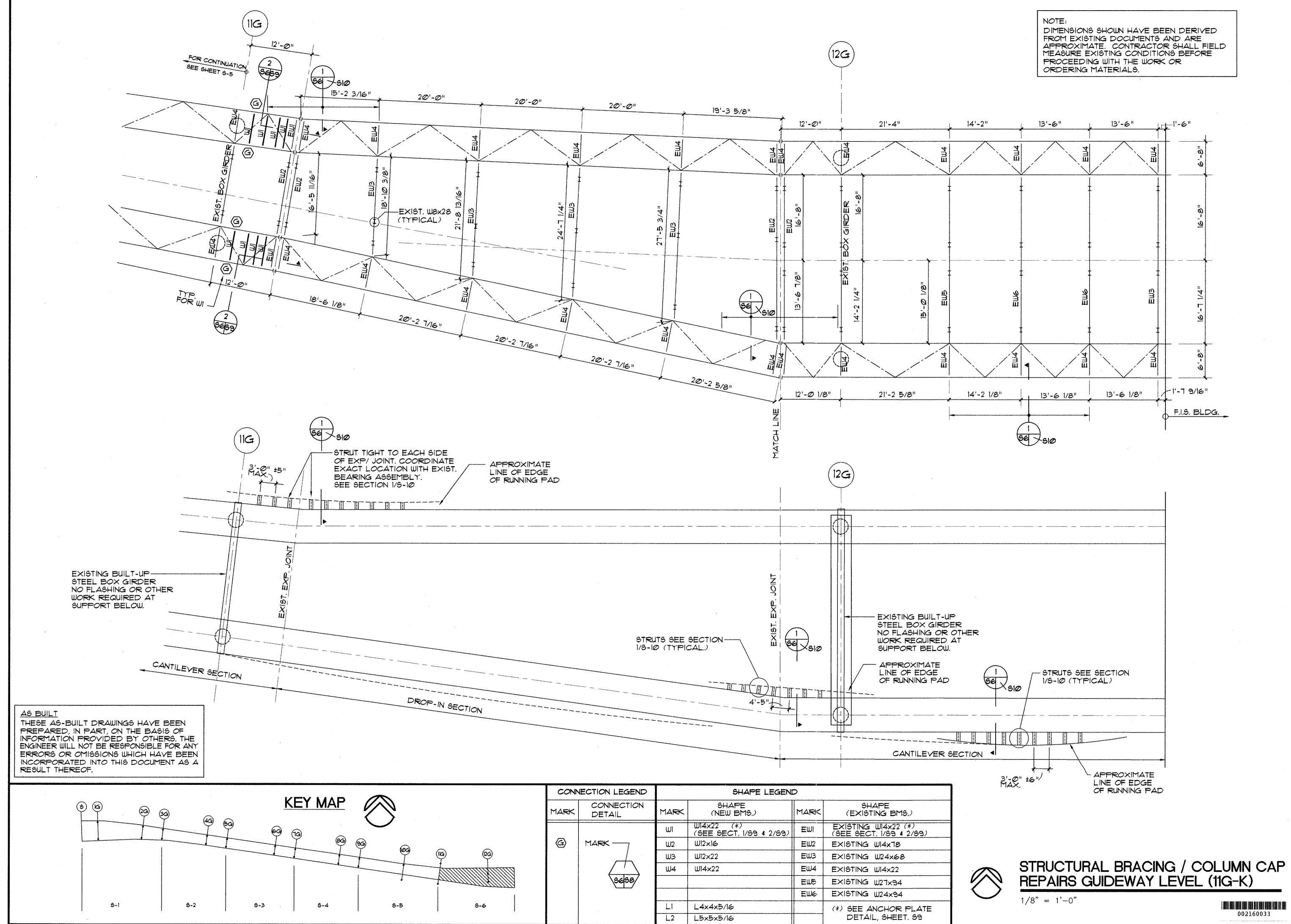
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	Ø		W1	WI4x22 (*) (SEE SECT. 1/69 4 2/69)	EWI	EXISTING W14x22 (*) (SEE SECT. 1/69 4 2/69)				
•		MARK	W2	WI2×16	EW2	EXISTING WI4x78				
(12G)	Ē		WЗ	WI2×22	ЕШЗ	EXISTING W24x68				
	Ô	3458	W4	WI4×22	EW4	EXISTING W14x22				
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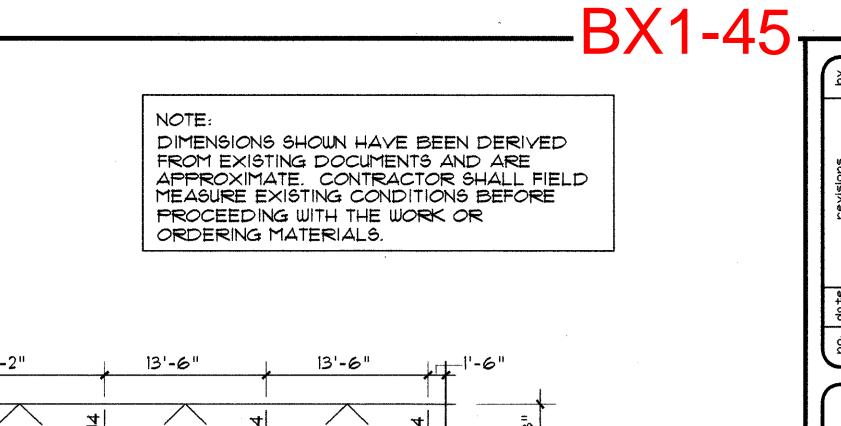
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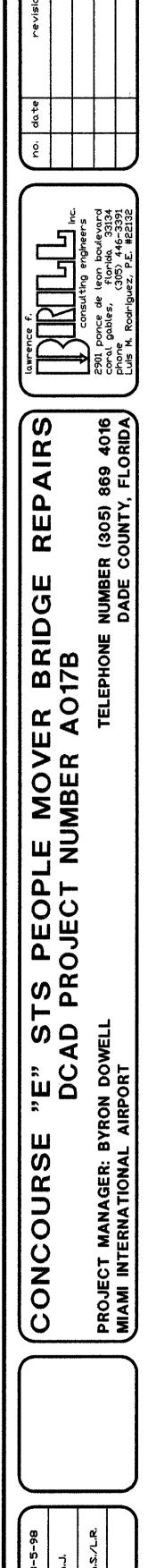
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~	Ē	MARK	W2	W12×16	EW2	EXISTING WI4x78				
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	G		W4	WI4×22	EW4	EXISTING WI4x22				
		6568								
						(*) SEE ANCHOR PLATE				
5-6			L1	L4x4x5/16		DETAIL, SHEET. 59				
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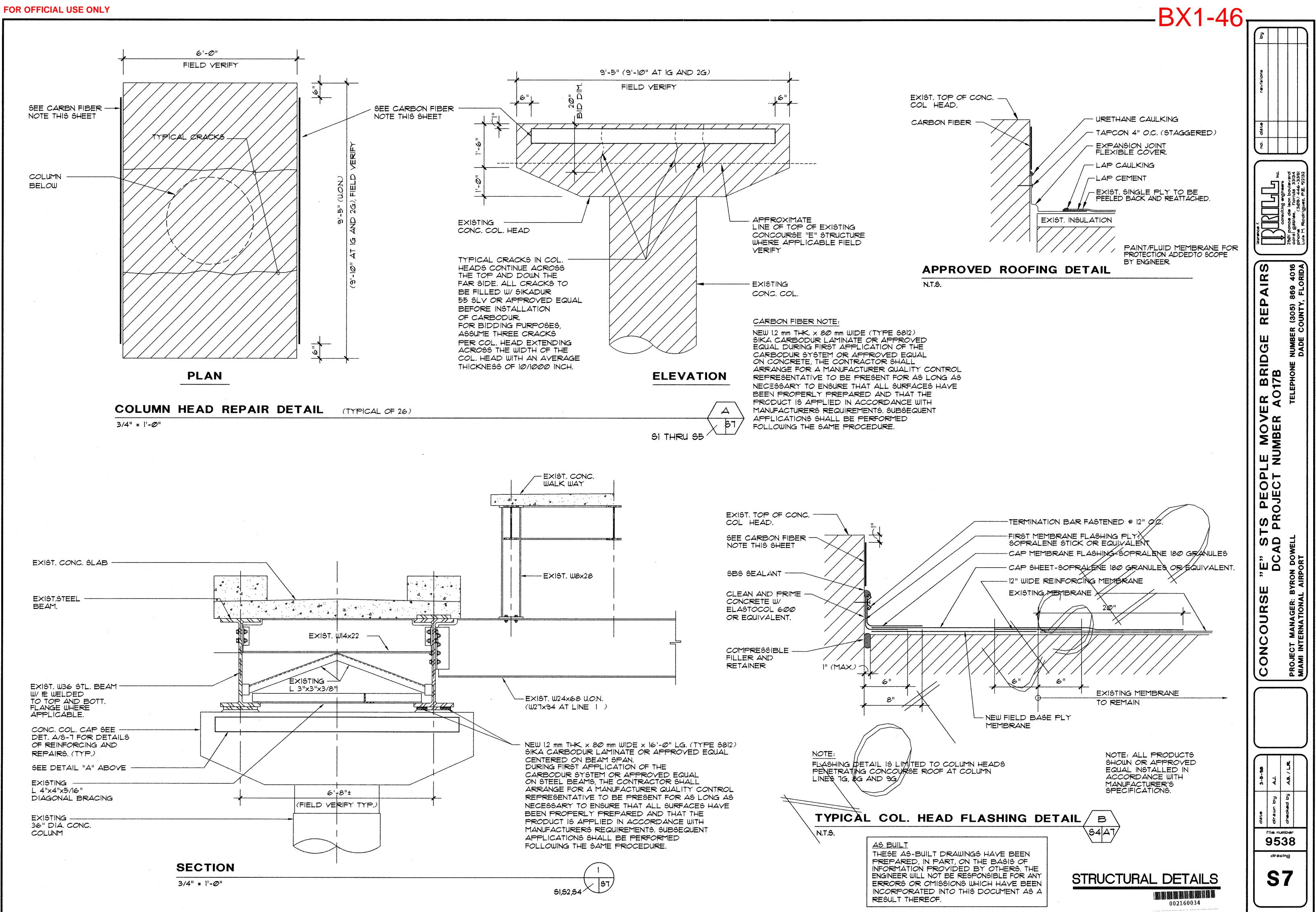
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0	G	MARK	W2	W12×16	EW2	EXISTING WI4x78				
(2G)			W3	W12×22	EW3	EXISTING W24×68				
			W4	W14×22	EW4	EXISTING WI4x22				
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				in the second	EWE,	EXISTING W24x94				
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			L2	L5x5x5/16		DETAIL, SHEET. S9				

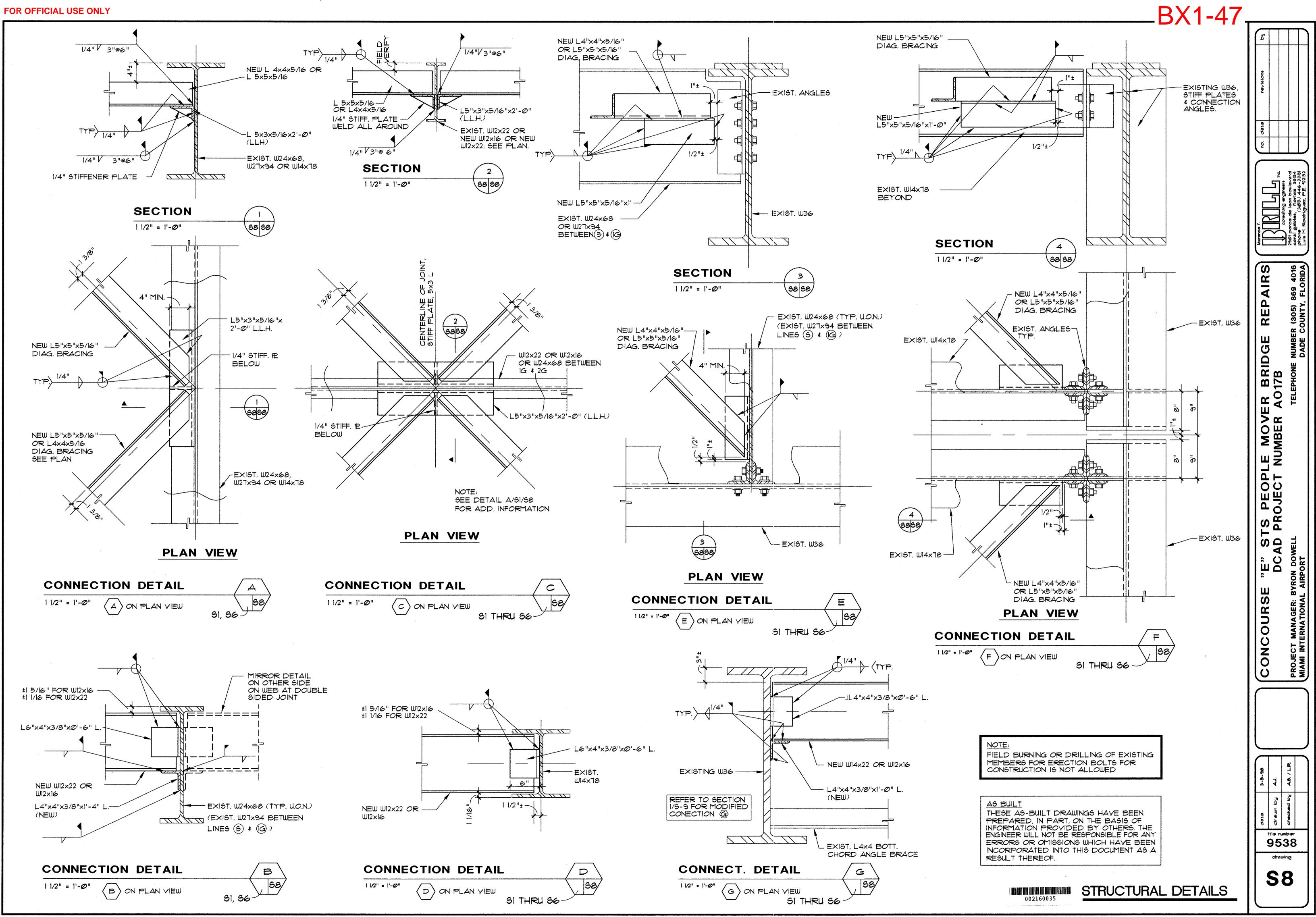




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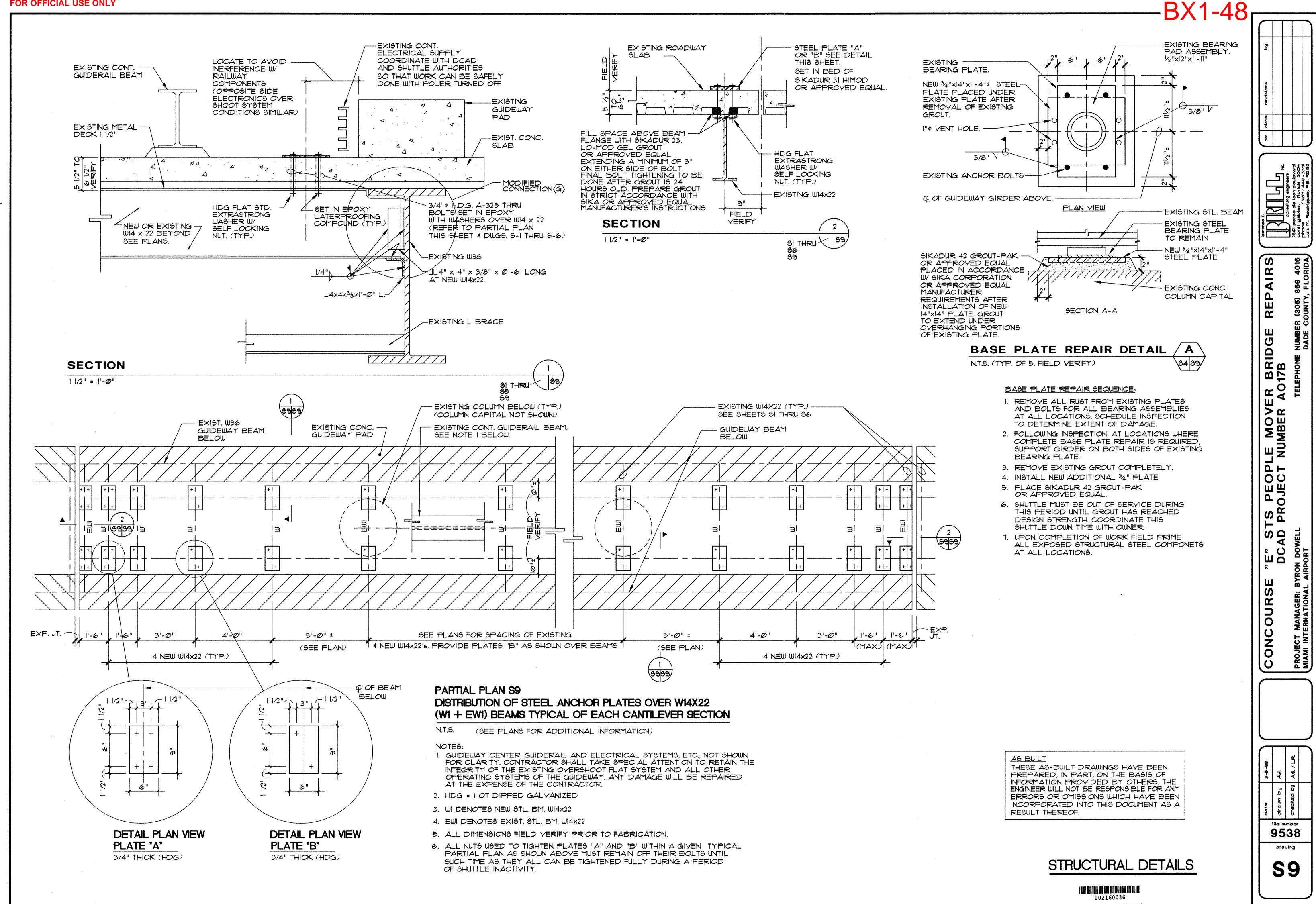


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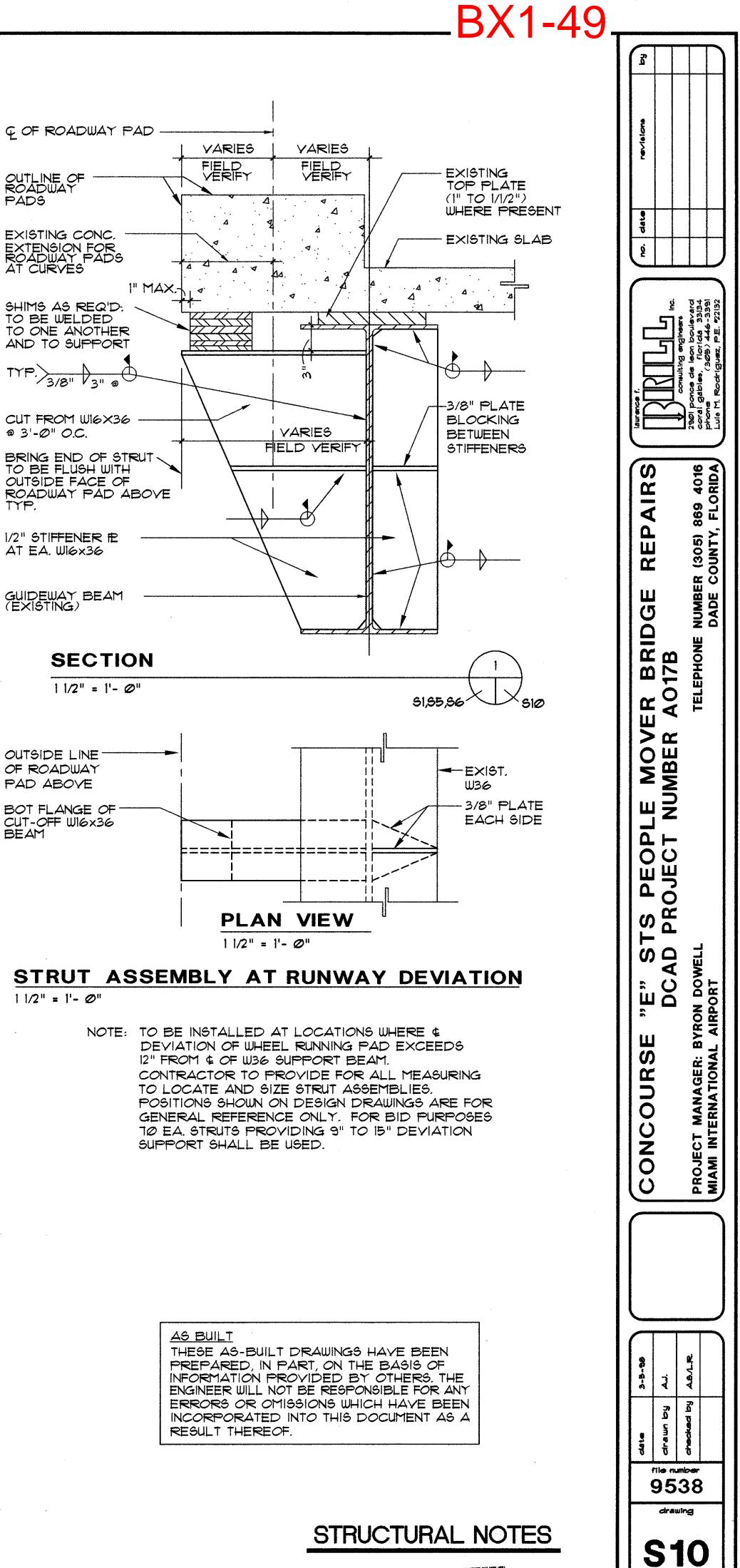
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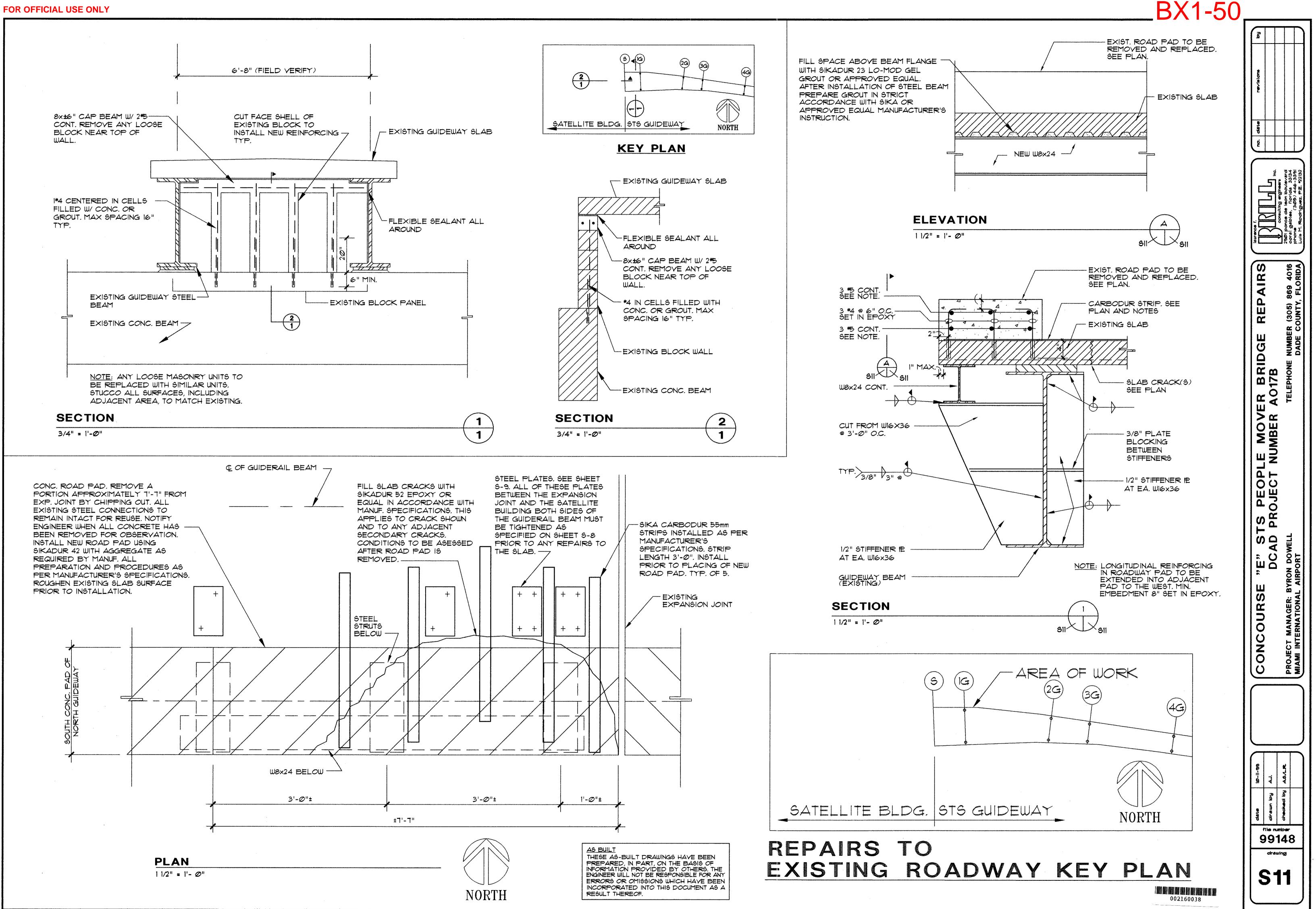
# GENERAL STRUCTURAL NOTES

GENERAL THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMEN 14. PLANS, SECTIONS AND DETAILS DO NOT SHOW ALL EXISTING CONDITIONS. DESIGN AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC THE BRIDGE STRUCTURE OF THE SHUTTLE IS USED TO SUPPORT A VARIETY THEY ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASURE OF COMPONENTS AND SYSTEMS SUCH AS REFRIGERANT LINES, ELECTRICAL MENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF. CONDUIT, CABLE TRAYS, CLADDING, ETC. SOME OR ALL OF THESE ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR COMPONENTS AND SYSTEMS WILL INTEREFERE WITH THE WORK IN THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, IDENTIFY SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFEREN PROTECT AND, WHERE IN CONFLICT WITH THE WORK, TO WORK WITH DCAD'S DETAIL IS SHOWN. AUTHORITIES TO TEMPORARILY REMOVE OR RELOCATE THESE ITEMS WITHOUT THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL GRADES, ADVERSELY AFFECTING THEIR INTENDED PURPOSE NOR AIRPORT OPERATIONS LINES, LEVELS, CONDITIONS AND DIMENSIONS AT THE JOB SITE AND SERVED BY CONFLICTING COMPONENTS. IT IS ALSO THE CONTRACTOR'S AS SHOWN ON THE DRAWINGS. THEY SHALL REPORT ANY ERRORS OR INCONSISTENCIES IN THE ABOVE TO THE ARCHITECT/ENGINEER (A/E) RESPONSIBILITY TO ALLOCATE SUFFICIENT FUNDING AND TIME IN HIS BEFORE COMMENCING WORK. THE CONTRACTOR AND SUBCONTRACTORS BID PRICE TO COVER ANY AND ALL WORK DESCRIBED ABOVE. SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND STRUCTURAL DESIGN CRITERIA BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK. STRUCTURAL IMPROVEMENTS SHOWN ON PLANS ARE BASED ON THE FOLLOWING PROTECTION: 4. ANALYSIS CRITERIA THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE А. 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 PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR B. STRUCTURAL & MISCELLANEOUS STEEL THE PROPER EXECUTION OF THE WORK. REMOVE FROM SITE WHEN THE (SHOP DRAWINGS REQUIRED) JORK IS COMPLETED. ALL STRUCTURAL STEEL TO BE DOMESTIC A.S.T.M. A-36 FY=36 MIN. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES KSL RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR HIGH STRENGTH BOLTS (ASTM-A325) TO BE 3/4" DIAMETER, UNLESS OTHERWISE SPECIFIED. PROVIDE MATCHING H.S. NUTS AND WASHERS ROADS. ALL WELDING TO BE IN ACCORDANCE WITH AMERICAN RAILWAY AT ALL TIMES PROVIDE PROTECTION AGAINST WEATHER (RAIN, D. WIND, STORMS OR HEAT) SO AS TO MAINTAIN ALL WORK, ENGINEERING ASSOCIATION (AREA) AND MATÉRIALS, APPARATUS AND FIXTURES FREE FROM DAMAGE. (AWS) "STRUCTURAL WELDING CODE - STEEL", DI.I, 1986 AND AS THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACEN INDICATED ON THE STRUCTURAL DRAWINGS. WELDING ELECTRODE STRUCTURES, ROOFS, SIDEWALKS AND TO STREETS OR OTHER PUBLIC WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO PROPERTY OR TO ANY PUBLIC UTILITIES. BE IN ACCORDANCE WITH THE AWS SPECIFICATIONS. ANY STRUCTURAL AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE STEEL DAMAGED IN WELDING TO BE REPLACED OR ACCEPTABLY DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE REINFORCED. ALL FULL PENETRATION GROOVE WELDS TO BE SUBJECT PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT TO RADIOGRAPHIC, MAGNETIC PARTICLE, ULTRASONIC, AND LIQUID THE CONTRACTOR'S EXPENSE PENETRANT INSPECTION CONDUCTED BY AN INDEPENDENT TESTING CONTRACTOR AGREES THAT HE WILL HOLD OWNER, ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS HARMLESS FROM ANY AND ALL AGENCY PAID BY THE OWNER. RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT. DAMAGE AND CLAIMS WHICH MAY ARISE BY REASON OF ANY NEGLIGENCE ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO DEVELOP ON PART OF CONTRACTOR, ANY OF HIS SUBCONTRACTORS AND/OR MEMBER IN SHEAR. (U.O.N.) SUBCONTRACTORS, MATERIALS AND EQUIPMENT SUPPLIERS AND/OR AN' SPLICE LOCATIONS TO BE REVIEWED BY A/E. OF THEIR EMPLOYEES OR AGENTS, IN PERFORMANCE OF THIS CONTRACT STEEL BEARING ON STEEL TO BE WELDED THERETO. AND, IN CASE ANY ACTION IS BROUGHT THEREFORE AGAINST OWNER, SHOP COAT ALL STRUCTURAL STEEL WITH RUSTOLEUM "769" RED PRIMER ENGINEERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, CONTRACTOR OR APPROVED EQUAL (U.O.N.) SHALL ASSUME FULL RESPONSIBILITY FOR DEFENSE THEREOF, AND UPON SUBMIT ONE SEPIA AND ONE PRINT OF SHOP DRAWINGS FOR ENGINEER'S HIS FAILURE TO DO SO ON PROPER NOTICE, OWNER, ENGINEERS AND/OR REVIEW BEFORE STARTING FABRICATION. ANY OF THEIR EMPLOYEES OR AGENTS RESERVE THE RIGHT TO DEFEND VERIFICATION AND CERTIFICATION OF ALL WELDING FOR THE PROJECT TO SUCH ACTION AND CHARGE ALL COSTS THEREOF TO CONTRACTOR. BE MADE BY A REGISTERED WELDING INSPECTOR EMPLOYED BY THE IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICA CONTRACTOR FOR THIS PURPOSE. COPIES OF ALL WELDING REPORTS TO BE TIONS OR OTHER DOCUMENTS THE CONTRACTOR SHALL NOTIFY THE TRANSMITTED TO THE SPECIAL INSPECTOR FOR THE PROJECT AS SOON AS ENGINEER IN WRITING OF SUCH OMISSIONS OR ERRORS PRIOR TO THEY ARE COMPLETED. PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH NOTICE, HE BRIDGE BEARINGS NOTE: SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH ALL FABRICATED BRIDGE BEARINGS AT COLUMN CAPS AND ENDS OF SPANS ARE TO BE PROTECTED FROM DAMAGE FROM THE ARCHITECTURAL DRAWINGS TO LOCATE STEPPED FOOTINGS CONSTRUCTION OPERATIONS FOR THE DURATION OF THE PROJECT DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BEARING SIDE AND ROTATION SURFACES SHALL BE MASKED DURING REGLETS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. POTENTIAL STEEL AND PAINTING OPERATIONS IN VICINITY OF WORK IN PROGRESS CONFLICTS SHALL BE TRANSMITTED TO THE A/E BEFORE PROCEEDING TO ENSURE CONTAMINATION DOES NOT OCCUR. UPON COMPLETION WITH THE WORK. OF WORK, HIGH PRESSURE AIR SHALL BE USED TO BLOW SURFACES SUBMIT ONE SEPIA AND ONE PRINT OF SHOP DRAWINGS FOR A/E REVIEW BEFORE STARTING FABRICATION. AND CUPS OF BEARINGS CLEAN. FOLLOWING CLEANING, A COATING NO SHOP DRAWINGS SHALL BE SUBMITTED FOR A/E REVIEW UNTIL AFTER OF SILICON SEALANT, DOW # 132 BY DOW-CORNING OR APPROVED EQUAL THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, SHALL BE APPLIED TO BEARINGS IN ACCORDANCE WITH MANUF. DIMENSIONING AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS RECOMMENDATIONS. TEMPORARY HANGING SYSTEM NOTE: OR OMISSIONS AS A RESULT OF CHECKING AND REVIEWING ANY SHOF THE CONTRACTOR IS REQUIRED TO EMPLOY A FLORIDA REGISTERED P.E. DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF FOR THE DESIGN OF ALL TEMPORARY HANGING SYSTEMS TO FACILITATE DRAWINGS BY ENGINEER AND EVEN THOUGH WORK IS DONE IN CONSTRUCTION. ACCORDANCE WITH SUCH DRAWINGS. 10. 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 INAPROPRIATE 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 A/E 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 A/E REMAINS AVAILABLE TO WORK OUT ALTERNATES, IF DEEMED NECESSARY AND APPROPRIATE (AT THE SOLE DISCRETION OF THE A/E), 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.
- THE REVIEW OF ALL STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO INSURE THAT HIS INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED. A COPY OF ALL STRUCTURAL SUBMITTALS WILL BE RETAINED FOR RECORD KEEPING PURPOSES ONLY.
- WHERE CRITICAL DIMENSIONS CANNOT BE DETERMINED FROM THE PLANS OR WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, OR WHERE ONE MATERIAL ADJOING 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 ARCHITECT BEFORE PROCEEDING WITH THE WORK
- 13. WHERE A LINE OF STRUCTURE, OPENING LOCATION, OR DIMENSION IS CRITICAL AND BASED ON THE REQUIREMENTS OF ANOTHER TRADE OR SUBCONTRACTOR, THAT SUBCONTRACTOR SHALL SUBMIT A SHOP DRAWING WITH THE REQUIRED DIMENSIONAL INFORMATION UPON WHICH THE CONTRACTOR SHALL BASE THE LAYOUT AND CONSTRUCTION.



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