

**Director of Airports: Brian Ryks 4701 GRINDEN DRIVE - DULUTH INTERNATIONAL AIRPORT DULUTH, MINNESOTA 55811** 

FAA AIP No. - 3-27-0024-48-10 RS&H PROJ. No. - 213.1882.091 CITY OF DULUTH BID No. - 10-4401



# **NEW PASSENGER TERMINAL BUILDING PERMIT** VOLUME 1 OF 2 **ARCHITECTURAL, STRUCTURAL**

AUG 16, 2010

# 

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### Architects and Civil Engineers: **REYNOLDS, SMITH & HILLS, INC.**

4525 Airport Approach Road, Duluth MN 55811 TEL: (218) 722-1227 / FAX: (218) 722-1052

### Interior Architects: **SJA ARCHITECTS**

11 E Superior Street Suite 340, Duluth MN 55802 TEL: (218) 724-8578 / FAX: (218) 724-8717

### Structural Engineers: **MBJ CONSULTING ENG.** 501 Lake Avenue South, Suite 300,

M/E/P/FP Engineers: COSENTINI ASSOCIATES INC. 1 South Wacker Drive, 37th Floor, Chicago IL 60606 TEL: (312) 201-7408 / FAX: (312) 201-0031

### Baggage Handling Systems Consultants: **BNP ASSOCIATES INC.**

101 East Ridge Office Park, Suite 103, Danbury CT 06810 TEL: (203) 792-3000 / FAX: (203) 792-4900

> Landscaping Consultants: **APPOLD DESIGN** 2432 East First Street,

Duluth MN 55812 TEL: (218) 591-5079

### DRAWING LIST

G101 DRAWING LIST		G101 DRAWING LIST
ARCHITECTURAL	STRUCTURAL	MECHANICAL
AS100 OVERALL SITE PLAN AS101 ARCHITECTURAL SITE PLAN	SOO1 TITLE SHEET SOO2 GENERAL STRUCTURAL NOTES	M001 MECHANICAL LEG M002 MECHANICAL SYM
A001 ABBREIVATIONS AND GENERAL NOTES A002 SYMBOLS AND ADA A003 PARTITION TYPES	S101 OVERALL FIRST LEVEL FLOOR PLAN S102 OVERALL SECOND LEVEL FLOOR PLAN S103 OVERALL THIRD LEVEL FLOOR PLAN	M108 ENLARGED UNDER M109 ENLARGED UNDER M110 ENLARGED FIRST M111 ENLARGED FIRST
A101 OVERALL FIRST FLOOR PLAN A102 OVERALL SECOND FLOOR PLAN A103 OVERALL THIRD FLOOR PLAN A104 OVERALL ROOF PLAN A110 FIRST FLOOR AREA A	S104 OVERALL ROOF LEVEL FLOOR PLAN S106 CANOPY FOUNDATION PLAN – AREA A S107 CANOPY FOUNDATION PLAN – AREA B S108 CANOPY ROOF FRAMING PLAN – AREA A S109 CANOPY ROOF FRAMING PLAN – AREA B	M112 ENLARGED SECON M113 ENLARGED SECON M114 ENLARGED THIRD M115 ENLARGED THIRD M116 ENLARGED ROOF
G101 DRAWING LIST ARCHITECTURAL AS100 OVERALL SITE PLAN AS101 ARCHITECTURAL SITE PLAN A001 ABBREIVATIONS AND GENERAL NOTES A002 SYMBOLS AND ADA A003 PARTITION TYPES A101 OVERALL FIRST FLOOR PLAN A102 OVERALL SECOND FLOOR PLAN A103 OVERALL THIRD FLOOR PLAN A104 OVERALL ROOF PLAN A110 FIRST FLOOR AREA A A111 FIRST FLOOR AREA A A113 SECOND FLOOR AREA A A113 SECOND FLOOR AREA A A113 SECOND FLOOR AREA A A115 THIRD FLOOR AREA A A211 OVERALL FIRST FLOOR RCP A202 OVERALL SECOND FLOOR RCP A203 OVERALL THIRD FLOOR RCP A210 ENLARGED FIRST FLOOR RCP AREA A A211 ENLARGED FIRST FLOOR RCP AREA A A211 ENLARGED FIRST FLOOR RCP AREA A A211 ENLARGED FIRST FLOOR RCP AREA A A213 ENLARGED SECOND FLOOR RCP AREA A A213 ENLARGED SECOND FLOOR RCP AREA A A213 ENLARGED THIRD FLOOR RCP AREA A A215 ENLARGED THIRD FLOOR RCP AREA A A215 ENLARGED THIRD FLOOR RCP AREA B A216 ENLARGED MISC RCPS A301 EXTERIOR ELEVATIONS A302 EXTERIOR ELEVATIONS	S110 FOUNDATION PLAN – AREA A S111 FOUNDATION PLAN – AREA B S112 SECOND LEVEL FRAMING PLAN – AREA A S113 SECOND LEVEL FRAMING PLAN – AREA B S114 THIRD LEVEL FRAMING PLAN – AREA A	MP110 ENLARGED FIRS MP111 ENLARGED FIRS MP112 ENLARGED SEC MP113 ENLARGED SEC MP114 ENLARGED THIR
A201 OVERALL FIRST FLOOR RCP A202 OVERALL SECOND FLOOR RCP A203 OVERALL THIRD FLOOR RCP A210 ENLARGED FIRST FLOOR RCP AREA A	S115 THIRD LEVEL FRAMING PLAN – AREA B S116 ROOF LEVEL FRAMING PLAN – AREA A S117 ROOF LEVEL FRAMING PLAN – AREA B S118 TUG ROAD FOUNDATION PLAN	MP115 ENLARGED THIR
A211 ENLARGED FIRST FLOOR RCP AREA B A212 ENLARGED SECOND FLOOR RCP AREA A A213 ENLARGED SECOND FLOOR RCP AREA B	S119 TUG ROAD ROOF FRAMING PLAN S301 BRACING ELEVATIONS AND DETAILS	M301 HEATING HOT WA M302 CHILLED WATER I
A214 ENLARGED THIRD FLOOR RCP AREA A A215 ENLARGED THIRD FLOOR RCP AREA B A216 ENLARGED MISC RCPS	S302 BRACING ELEVATIONS AND DETAILS S401 COLUMN SCHEDULE AND DETAILS	M401 MECHANICAL EQU M402 MECHANICAL EQU M403 MECHANICAL EQU
A303 CANOPY ELEVATIONS A310 BUILDING SECTIONS A311 BUILDING SECTIONS	S503 STRUCTURAL DETAILS S504 STRUCTURAL DETAILS S505 STRUCTURAL DETAILS	M501 MECHANICAL DET/ M502 MECHANICAL DET/ M503 MECHANICAL DET/ M504 MECHANICAL DET/
A510 PLAN DETAILS A511 PLAN DETAILS	S701 STRUCTURAL DETAILS S702 STRUCTURAL DETAILS S703 STRUCTURAL DETAILS	ELECTRICAL
A512 PLAN DETAILS A520 SECTION DETAILS	S704 STRUCTURAL DETAILS S705 STRUCTURAL DETAILS	E001 ELECTRICAL SYME E002 ELECTRICAL SITE
A522 SECTION DETAILS A523 ROOF DETAILS A530 EXTERIOR SYSTEM SHEET – VERTICAL CIRCULATION A530A EXTERIOR SYSTEM SHEET – VERTICAL CIRCULATION A530B EXTERIOR SYSTEM SHEET – VERTICAL CIRCULATION A532 EXTERIOR SYSTEM SHEET – VERTICAL CIRCULATION A533 EXTERIOR SYSTEM SHEET – VERTICAL CIRCULATION A534 EXTERIOR SYSTEM SHEET – VERTICAL CIRCULATION A535 INTERIOR SYSTEM SHEET – VERTICAL CIRCULATION A535 INTERIOR SYSTEM SHEET – MAIN STAIR	S706 STRUCTURAL DETAILS	E110 ENLARGED FIRST E111 ENLARGED FIRST E112 ENLARGED SECON E113 ENLARGED SECON E114 ENLARGED THIRD E115 ENLARGED THIRD E116 ELECTRICAL ROOF E117 RAMP ELECTRICAL E118 CANOPY LIGHTING E119 APRON LIGHTING
A536 INTERIOR SYSTEM SHEET – MAIN ELEVATOR A540 INTERIOR SYSTEM SHEET – VERTICAL CIRCULATION A560 MILLWORK ELEVATIONS		E200 ENLARGED EQUIP
A561 MILLWORK ELEVATIONS A562 MILLWORK ELEVATIONS AND DETAILS A563 MILLWORK DETAILS		E201 GROUNDING PLAN E300 POWER RISER DIA
A601 INTERIOR ELEVATIONS		E301 FIRE ALARM AND
A602 INTERIOR ELEVATIONS A603 INTERIOR ELEVATIONS A604 INTERIOR ELEVATIONS A610 INTERIOR SYSTEM SHEET – RESTROOMS A611 INTERIOR SYSTEM SHEET – RESTROOMS A612 INTERIOR SYSTEM SHEET – RESTROOMS A620 INTERIOR SYSTEM SHEET – WOOD CEILING A621 CEILING SECTION DETAILS A622 CEILING PLAN DETAILS		E400 ELECTRICAL ABBR E401 LIGHTING FIXTURE E402 ELECTRICAL EQUIF E403 PANEL SCHEDULE E404 PANEL SCHEDULE E405 PANEL SCHEDULE E406 PANEL SCHEDULE E407 PANEL SCHEDULE E408 PANEL SCHEDULE
A701 DOOR SCHEDULES A702 DOOR DETAILS A710 EXTERIOR SYSTEM SHEET – LANDSIDE CURTAIN WAL A711 EXTERIOR SYSTEM SHEET – LANDSIDE CURTAIN WALL A712 EXTERIOR SYSTEM SHEET – AIRSIDE CURTAIN WALL A713 EXTERIOR SYSTEM SHEET – AIRSIDE CURTAIN WALL A714 EXTERIOR SYSTEM SHEET – ENTRY VESTIBULE		EL110 ENLARGED FIRST EL111 ENLARGED FIRST EL112 ENLARGED SECO EL113 ENLARGED SECO EL114 ENLARGED THIRE EL115 ENLARGED THIRE
A715 EXTERIOR SYSTEM SHEET – CORE WALL A720 EXTERIOR SYSTEM SHEET – TUG TUNNEL		PLUMBING
A721 EXTERIOR SYSTEM SHEET – TUG TUNNEL A722 EXTERIOR SYSTEM SHEET – TUG TUNNEL A723 EXTERIOR SYSTEM SHEET – CANOPY		P001 PLUMBING SYMBO
A801 INTERIOR FINISH SCHEDULES A802 INTERIOR MATERIALS SCHEDULE		P101 ENLARGED UNDEF P102 ENLARGED UNDEF P103 ENLARGED UNDEF
LS101 FIRST FLOOR LIFE SAFETY LS102 SECOND FLOOR LIFE SAFETY		P110 ENLARGED FIRST P111 ENLARGED FIRST
LS103 THIRD FLOOR LIFE SAFETY LS110 EXISTING BASEMENT LIFE SAFETY LS111 FIRST FLOOR INTERIM LIFE SAFETY		P112 ENLARGED SECON P113 ENLARGED SECON P114 ENLARGED THIRD

- LS111 FIRST FLOOR INTERIM LIFE SAFETY
- LS112 SECOND FLOOR INTERIM LIFE SAFETY

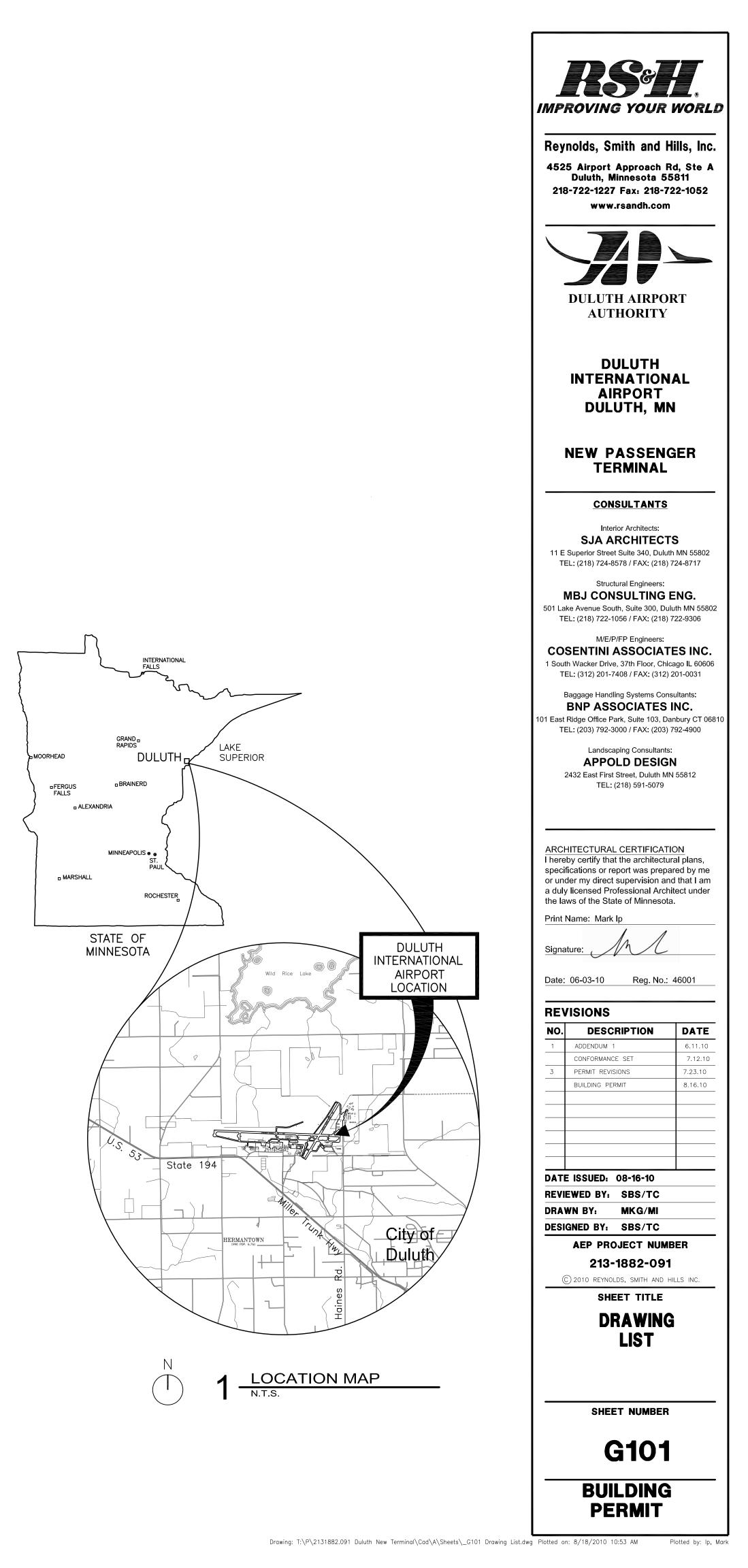
GENERAL NOTE: HEIGHTS AND CLEARANCES, SEE A002

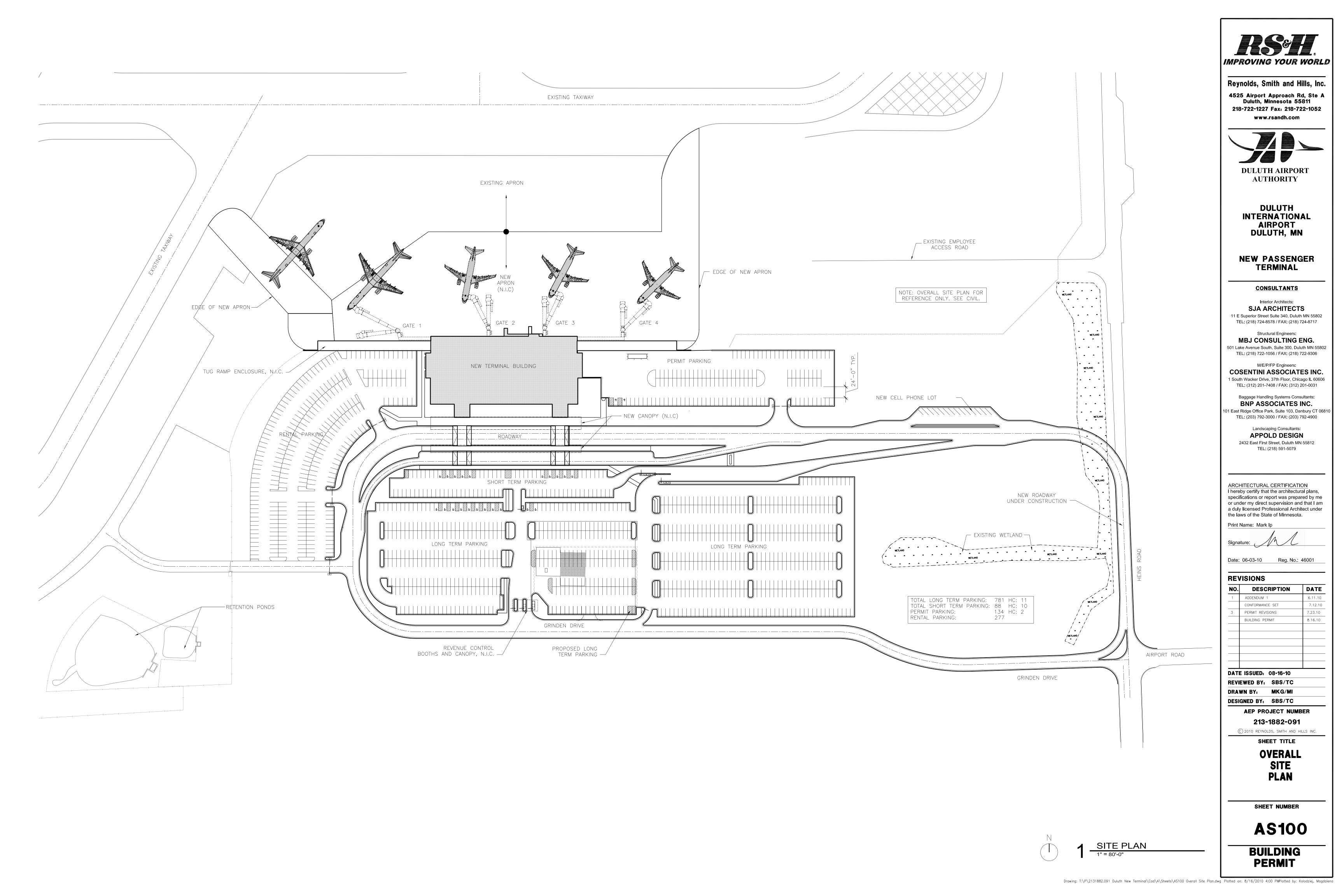
P401 PLUMBING DETAILS

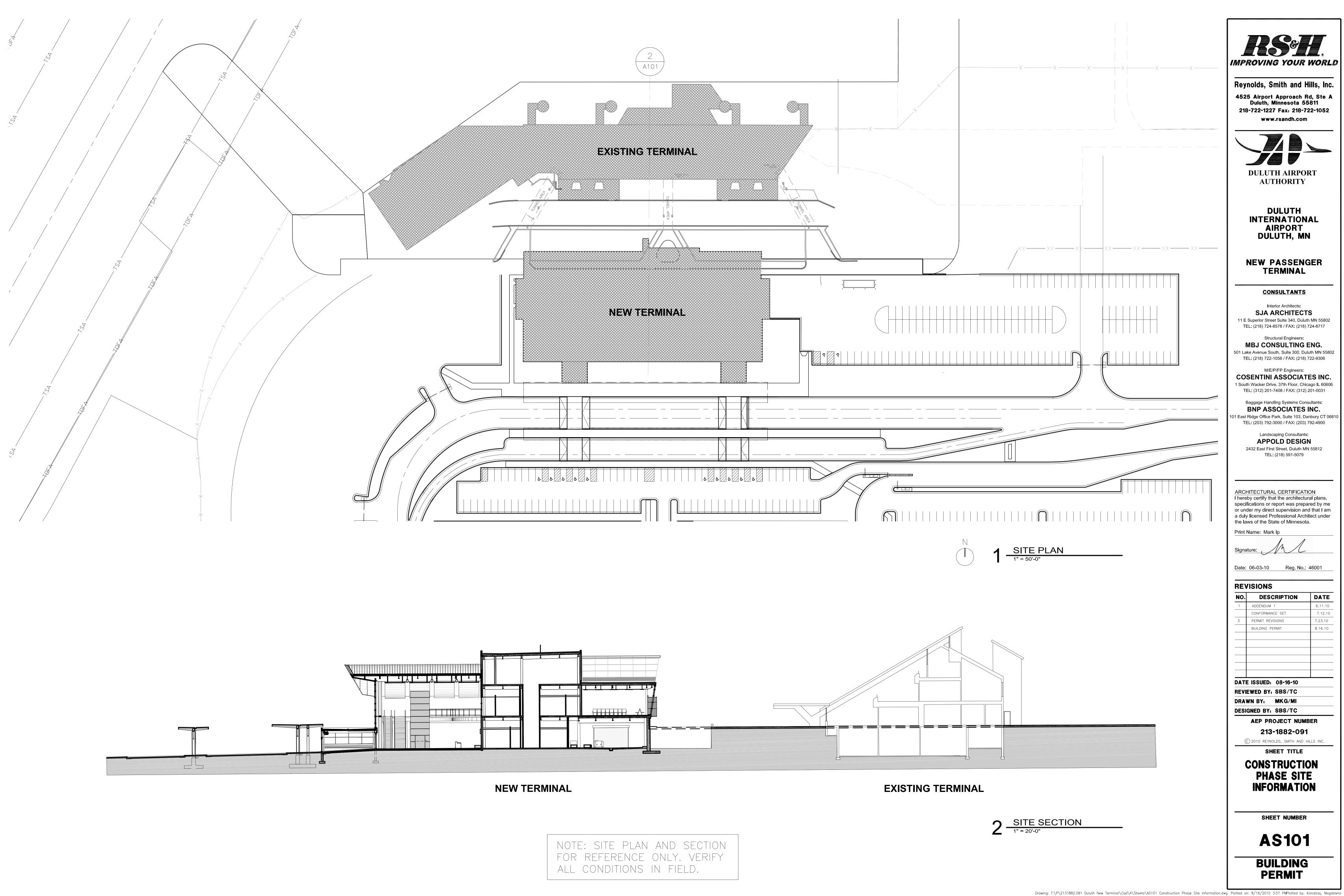
P402 PLUMBING DETAILS P403 PLUMBING DETAILS

G101 DRAWING LIST	
<u>MECHANICAL</u> MOO1 MECHANICAL LEGEND	FIRE PROTECTION F001 FIRE PROTECTION SYMBOL LIST, ABBREVIATIONS AND DRAWING IND
M002 MECHANICAL SYMBOLS M108 ENLARGED UNDERGROUND MECHANICAL PLAN AREA A M109 ENLARGED UNDERGROUND MECHANICAL PLAN AREA B M110 ENLARGED FIRST FLOOR MECHANICAL PLAN AREA A M111 ENLARGED FIRST FLOOR MECHANICAL PLAN AREA B M112 ENLARGED SECOND FLOOR MECHANICAL PLAN AREA A M113 ENLARGED SECOND FLOOR MECHANICAL PLAN AREA A M114 ENLARGED THIRD FLOOR MECHANICAL PLAN AREA A M115 ENLARGED THIRD FLOOR MECHANICAL PLAN AREA A M116 ENLARGED ROOF MECHANICAL PLAN AREA A	F110 ENLARGED FIRST FLOOR FIRE PROTECTION PLAN AREA A F111 ENLARGED FIRST FLOOR FIRE PROTECTION PLAN AREA B F112 ENLARGED SECOND FLOOR FIRE PROTECTION PLAN AREA A F113 ENLARGED SECOND FLOOR FIRE PROTECTION PLAN AREA B F114 ENLARGED THIRD FLOOR FIRE PROTECTION PLAN AREA A F115 ENLARGED THIRD FLOOR FIRE PROTECTION PLAN AREA B F401 FIRE PROTECTION DETAILS F501 FIRE PROTECTION SCHEDULES AND RISER DIAGRAM
MP110 ENLARGED FIRST FLOOR MECH. PIPING PLAN AREA A MP111 ENLARGED FIRST FLOOR MECH. PIPING PLAN AREA B MP112 ENLARGED SECOND FLOOR MECH. PIPING PLAN AREA A MP113 ENLARGED SECOND FLOOR MECH. PIPING PLAN AREA B MP114 ENLARGED THIRD FLOOR MECH. PIPING PLAN AREA A MP115 ENLARGED THIRD FLOOR MECH. PIPING PLAN AREA B	
M201 DIESEL GENERATOR MECHANICAL PLAN & DETAILS M202 MECHANICAL SECTIONS & ELEVATIONS	
M301 HEATING HOT WATER FLOW DIAGRAM M302 CHILLED WATER FLOW DIAGRAM	
M401 MECHANICAL EQUIPMENT SCHEDULES I M402 MECHANICAL EQUIPMENT SCHEDULES II M403 MECHANICAL EQUIPMENT SCHEDULES III	
M501 MECHANICAL DETAILS I M502 MECHANICAL DETAILS II M503 MECHANICAL DETAILS III M504 MECHANICAL DETAILS IV	
ELECTRICAL	
E001 ELECTRICAL SYMBOLS E002 ELECTRICAL SITE PLAN	
E110 ENLARGED FIRST FLOOR ELECTRICAL PLAN AREA A E111 ENLARGED FIRST FLOOR ELECTRICAL PLAN AREA B E112 ENLARGED SECOND FLOOR ELECTRICAL PLAN AREA A E113 ENLARGED SECOND FLOOR ELECTRICAL PLAN AREA B E114 ENLARGED THIRD FLOOR ELECTRICAL PLAN AREA A E115 ENLARGED THIRD FLOOR ELECTRICAL PLAN AREA B E116 ELECTRICAL ROOF PLAN E117 RAMP ELECTRICAL POWER AND LIGHTING PLAN E118 CANOPY LIGHTING PLAN E119 APRON LIGHTING PLAN	
E200 ENLARGED EQUIPMENT ROOMS	
E201 GROUNDING PLAN	
E300 POWER RISER DIAGRAM E301 FIRE ALARM AND GROUNDING RISER DIAGRAMS	
E400 ELECTRICAL ABBREVIATIONS AND TABLES E401 LIGHTING FIXTURE SCHEDULE E402 ELECTRICAL EQUIPMENT SCHEDULE AND NOTES E403 PANEL SCHEDULES E404 PANEL SCHEDULES E405 PANEL SCHEDULES E406 PANEL SCHEDULES E407 PANEL SCHEDULES E408 PANEL SCHEDULES	
EL110 ENLARGED FIRST FLOOR LIGHTING PLAN AREA A EL111 ENLARGED FIRST FLOOR LIGHTING PLAN AREA B EL112 ENLARGED SECOND FLOOR LIGHTING PLAN AREA A EL113 ENLARGED SECOND FLOOR LIGHTING PLAN AREA B EL114 ENLARGED THIRD FLOOR LIGHTING PLAN AREA A EL115 ENLARGED THIRD FLOOR LIGHTING PLAN AREA B	
PLUMBING	
P001 PLUMBING SYMBOL LIST, ABBREVIATIONS AND DRAWING LIST P100 ENLARGED UNDERGROUND PLUMBING PLAN AREA A	
P101 ENLARGED UNDERGROUND PLUMBING PLAN AREA B P102 ENLARGED UNDERGROUND PLUMBING PLAN AREA A P103 ENLARGED UNDERGROUND PLUMBING PLAN AREA B	
P110 ENLARGED FIRST FLOOR PLUMBING PLAN AREA A P111 ENLARGED FIRST FLOOR PLUMBING PLAN AREA B P112 ENLARGED SECOND FLOOR PLUMBING PLAN AREA A P113 ENLARGED SECOND FLOOR PLUMBING PLAN AREA B P114 ENLARGED THIRD FLOOR PLUMBING PLAN AREA A P115 ENLARGED THIRD FLOOR PLUMBING PLAN AREA B P116 ENLARGED ROOF LEVEL PLUMBING PLAN AREA A P117 ENLARGED ROOF LEVEL PLUMBING PLAN AREA B P118 ENLARGED FIRST FLOOR PLUMBING PLAN AREA A CANOPY P119 ENLARGED FIRST FLOOR PLUMBING PLAN AREA B CANOPY P120 ENLARGED SECOND FLOOR PLUMBING PLAN AREA A CANOPY P121 ENLARGED SECOND FLOOR PLUMBING PLAN AREA A CANOPY RC P122 TUG RAMP ROOF PLUMBING PLAN	
P301 WATER SCHEMATIC, GAS SCHEMATIC, AND STORM RISER DIAGRAM P302 COLD & HOT WATER RISER DIAGRAM P303 WASTE AND VENT RISER DIAGRAM	Λ

P501 PLUMBING SCHEDULES









### ABBREVIATIONS

A.F.F. A.C.T. ADJ. A.E.S.S. A.H.U. ALT. ALUM. APPROX. ARCH. ASPH. AUTO.	ABOVE FINISHED FLOOR ACOUSTIC CEILING TILE ADJACENT ARCH. EXPOSED STL. STRUCT. AIR HANDLER UNIT ALTERNATE ALUMINUM APPROXIMATE ARCHITECTURAL ASPHALT AUTOMATIC	EA. ELEC. E.W.C. EL. ENCL. EQ. EQUIP. EXIST. EXP. JT. EXP. EXT.	EACH ELECTRICAL ELECTRICAL W. ENCLOSURE EQUAL EQUIPMENT EXISTING EXPANSION JO EXPOSED EXTERIOR
BM. B.M. BLKG. BD. BOT.	BEAM BENCH MARK BLOCKING BOARD BOTTOM	FIN. FT. F.E.C. F.E.	FEET FINISH FIRE EXTINGUIS
BLDG. C.F.M.F. C.R. CPT. CLG. Q or C.L. C.T. CL.	BUILDING COLD-FORMED METAL FRAMING CARD READER CARPET CEILING CENTERLINE CERAMIC TILE CLEAR	F.H.C. F.H.R. FIXT. F.I.D. FL. F.D. FLUOR. FR.	FIRE HOSE CA FIRE HOSE RA FIXTURE FLIGHT INFORM FLOOR FLOOR DRAIN FLUORESCENT FRAME
CTR. C.O. COL. COMP. CONC.	CENTER CLEAN OUT COLUMN COMPRESSIBLE CONCRETE	GA. GALV. GYP.BD.	GAUGE GALVANIZED GYPSUM BOAR
CONC. BLK. CMU CONN. CONT. C.J. CORR. CU. C.W.	CONCRETE BLOCK CONCRETE MASONRY UNIT CONNECTION CONTINUOUS CONTROL JOINT CORRIDOR CUBIC CURTAINWALL	HBS HDW. HD. H.P. H.P.C. HT. H.M.	HANDLING BAG HARDWARE HEAD HIGH POINT HIGH PERFORM HEIGHT HOLLOW METAI
DEG. DET. DIA. DIM. DIST. DIV. DR. DN. DWG. D.F.	DEGREE DETAIL DIAMETER DIMENSION DISTANCE DIVIDER DOOR DOWN DRAWING DRINKING FOUNTAIN	HORIZ. I.D. IN. INSUL. INT. JAN. JT.	HORIZONTAL INCHES INSIDE DIAMETI INSULATION INTERIOR JANITOR JOINT

CH CTRICAL CTRICAL WATER COOLER VATION CLOSURE	LAM. LAV. L.F. L. PT.	LAMINATED LAVATORY LINEAR FEET LOW POINT	R. RECT. REINF. REQD. REV.
ial Jipment Sting Pansion Joint	M.O. MATL. MAX. MECH.	MASONRY OPENING MATERIAL MAXIMUM MECHANICAL	R.H. R.D. RM.
OSED ERIOR	M.H. MTL.	MAN HOLE Metal	SC. SCHED.
T SH E EXTINGUISHER CABINET	MIN. MISC. MULL. M.U.F.I.D.	MINIMUM MISCELLANEOUS MULLION MULTIPLE USE FLIGHT INFORMATION DISPLAY	SECT. SHT. SIM. SQ. FT.
E EXTINGUISHER E HOSE CABINET E HOSE RACK	NOM. N.I.C.	NOMINAL NOT IN CONTRACT	S.S. STD. STA.
TURE GHT INFORMATION DISPLAY	N.T.S. NO.	NOT TO SCALE NUMBER	STL. STRUCT.
OR OR DRAIN ORESCENT	0.C. 0PG.	ON CENTER OPENING	SUSP. SYM.
ME JGE	OPP. OZ. O.D.	OPPOSITE OUNCE OUTSIDE DIAMETER	TEL. THK. TSA
VANIZED	0.A. 0.W.S.J.	OVERALL OPEN WEB STEEL JOIST	TYP.
SUM BOARD	PR. P.J.	PAIR PANEL JOINT	U.L.
IDLING BAGGAGE SYSTEM RDWARE ND	PLAS. PL.	PLASTER PLATE	U.O.N. V.B.
H POINT H PERFORMANCE COATING	PLMBG. PLYWD. P.V.C.	PLUMBING PLYWOOD POLYVINYLCHLORIDE	VERT. V.C.T.
GHT LOW METAL	PT. LBS.	POINT POUNDS POUNDS BER SOLLARE INCH	V.W.C. VOL.
HES	PSI. P.T. PRPTY.	POUNDS PER SQUARE INCH PRESSURE TREATED PROPERTY	W.H.I.
TES DE DIAMETER JLATION ERIOR	QTY. Q.T.	QUANTITY QUARRY TILE	W.C. WT. W.W.F.
ITOR			WD.

RADIUS RECTANGULAR REINFORCEMENT REQUIRED REVISION RIGHT HAND ROOF DRAIN ROOM SCALE SCHEDULE

SECTION SHEET SIMILAR SQUARE FEET STAINLESS STEEL STANDARD STATION STEEL STRUCTURAI SUSPENDED SYMBOL

TELEPHONE THICKNESS TRANSPORTATION SECURITY ADMINISTRATION TYPICAL

UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED VAPOR BARRIER

VERTICAL VINYL COMPOSITION TILE VINYL WALL COVERING VOLUME

WARNOCK HERSEY INTERNATIONAL WATER CLOSET WEIGHT WELDED WIRE FABRIC WOOD WORKING POINT

W.P.

### PROJECT GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS AND GOVERNING AUTHORITIES. 2. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, STRUCTURAL AND ELECTRICAL DRAWINGS FOR COORDINATION OF WORK.

3. EACH TRADE CONTRACTOR SHALL VISIT THE SITE AND BECOME KNOWLEDGEABLE OF CONDITIONS THEREIN. EACH TRADE CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL THE REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY CONDITIONS REQUIRING INFORMATION BEFORE PROCEEDING WITH THE WORK. EXISTING BUILDING DRAWINGS ARE AVAILABLE FROM THE OWNER FOR REVIEW. THE DOCUMENTS AVAILABLE MAY NOT BE REPRESENTATIVE OF ALL AS-BUILT CONDITIONS

4. THE TRADE CONTRACTORS SHALL PROTECT ALL EXISTING SITE ELEMENTS FROM DAMAGE DUE TO ALTERATION AND CONSTRUCTION OPERATIONS AND REPAIR OR REPLACE ELEMENTS DAMAGED DURING THE PROJECT.

5. ANY UTILITY SHUT-OFFS AS REQUIRED BY THE CONTRACTOR FOR COMPLETION OF THE WORK SUCH AS ELECTRICAL, WATER, SEWER, TELEPHONE, GAS ETC. MUST BE SCHEDULED WITH THE OWNER 72 HOURS PRIOR TO COMMENCING THE WORK. ALL WORK TO BE DONE IN OFF HOURS OR AT LOW-USE HOURS AS APPROVED BY THE OWNER.

6. DRAWINGS ARE TO BE ISSUED TO THE SUBCONTRACTORS IN COMPLETE SETS SO THAT THE EXTENT AND COORDINATION OF THE WORK IS MADE POSSIBLE.

7. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED FOR THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED.

8. WHERE SPECIFIC DIMENSIONS, DETAILS AND DESIGN INTENT CANNOT BE DETERMINED, NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY WORK IN QUESTION.

9. DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.

WRITING OF ANY DISCREPANCIES.

11. UNLESS NOTED OTHERWISE, ALL WALLS AND PARTITIONS ARE DIMENSIONED TO THE FINISH FACE OF THE METAL FRAMING OR FACE OF C.M.U.

12. UNLESS NOTED OTHERWISE, ALL FASTENERS AND FASTENING DEVICES ARE TO BE CONCEALED IN ALL FINISHED SPACES.

13. ANY PIPING, DUCTS, CONDUITS, ETC. THAT PENETRATE FIRE-RATED WALLS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE INTEGRITY OF THE FLOOR OR WALL. FIRE STOP RATINGS OF WALLS WHERE PENETRATIONS OCCUR. PROVIDE FIRE DAMPERS IN DUCTS PENETRATING FIRE-RATED WALLS TO MEET THE APPLICABLE BUILDING CODES. REFER TO ALL DRAWINGS FOR EXTENT AND FIRE RATING REQUIREMENTS. THE FIRE RATING OF THE FIRESTOP MUST BE EQUAL TO OR GREATER TO THE MINIMUM RATING OF THE FLOOR, ROOF OR WALL ASSEMBLY. ALL FIREPROOFING REPLACEMENT OR INSTALLATION TO BE COMPLETED BY CONTRACTOR PERFORMING THE PENETRATION.

14. ALL JOINTS OF ANY ELEMENT OF CONSTRUCTION WHICH ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE INSTALLED PER THE MANUFACTURER'S PUBLISHED TESTED ASSEMBLIES, SHALL BE TIGHT AND SHALL PREVENT THE PASSAGE OF SMOKE AND FLAME.

## EXTENDING TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK.

16. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER BY GASKETS OR COATINGS OR BOTH TO AVOID GALVANIC CORROSION ACTION.

17. ALL FERROUS METAL WORK LOCATED ON THE EXTERIOR OR IN NON CONDITIONED SPACES (INTERIOR) SHALL BE HOT-DIPPED GALVANIZED (MINIMUM G-90 COATING).

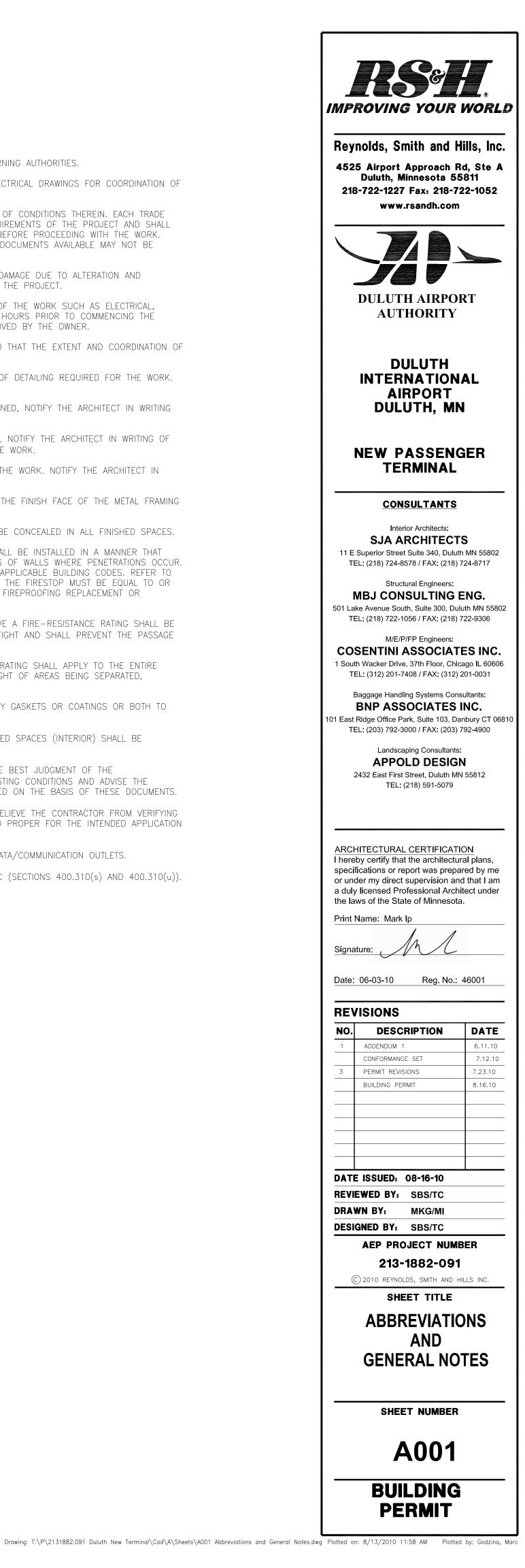
18. THE EXTENT OF THE WORK SHOWN ON THE PLANS AND DETAILS REFLECTS THE BEST JUDGMENT OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND ADVISE THE ARCHITECT IN WRITING OF ANY SITUATION THAT WOULD NOT ALLOW HIM TO PROCEED ON THE BASIS OF THESE DOCUMENTS.

19. THE ARCHITECT/ENGINEER SELECTION OF MATERIALS AND DETAILS DOES NOT RELIEVE THE CONTRACTOR FROM VERIFYING WITH THE MATERIAL SUPPLIERS THAT THE PROPOSED MATERIALS ARE CORRECT AND PROPER FOR THE INTENDED APPLICATION AND USE.

20. THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF THE POWER/DATA/COMMUNICATION OUTLETS. 21. ALL WORK SHALL CONFORM WITH MINNESOTA ACCESSIBILITY CODE AND THE IAC (SECTIONS 400.310(s) AND 400.310(u)).

10. ALL DIMENSIONS SHALL BE VERIFIED ON THE SITE BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IN

15. WHERE THE FIRE RATING OF WALLS ARE NOTED ON THE DRAWINGS, THE FIRE RATING SHALL APPLY TO THE ENTIRE PERIMETER ENCLOSURE OF THE ROOM OR SPACE FOR THE FULL LENGTH AND HEIGHT OF AREAS BEING SEPARATED,



### MATERIALS LEGEND

	DESIGNATION	ITEM
TERRA CO UNGLA		EARTH CRUSHED ROCK GRAVEL
ALUMINUM AND OTHER ME		EARTH UNDISTURBED
BRC		EARTHWORK COMPACTED FILL
S		SAND
SHEET METAL AND ALL ME		BRICK COMMON/FACE
PARTICLEBOARD WOODW ARCHITECTU		CMU
PLYW		CONCRETE
WOOD BLOC		GRANITE STONE
WOOD FI	e salt satt Persona ta satu sat	GROUT
WOOD FRAI CONTINU		LIMESTONE
GAS FIREPROO		MARBLE STONE
INSULA E		STONE CAST

### ACCESSIBILITY NOTES

TERRA COTTA

GLAZED

A. <u>GENERAL REQUIREMENTS</u>

THIS PROJECT WILL COMPLY WITH ALL IAC 400.310 - NEW CONSTRUCTION.

INSULATION

RIGID BOARD

1. THE ENTRANCE IS ACCESSIBLE PER IAC 400.310(k).

2. ALL PASSENGER ELEVATORS PROVIDED IN A BUILDING OR FACILITY SHALL BE ACCESSIBLE, SHALL SERVE ALL LEVELS OF A BUILDING OR FACILITY, SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH THE ASME A 17.1-1996.

3. ALL DOORS LEADING TO REQUIRED ACCESSIBLE ROOMS AND SPACES SHALL BE A MINIMUM OF 3'-0" WIDE, HAVE LEVER OPERATED HARDWARE (OR EQUAL), HAVE A MININUM OPENING FORCE OF 5 LBF, AND FULLY COMPLY WITH IAC 400.310(j).

4. ALL DOORS LEADING TO HAZARDOUS ROOMS WILL COMPLY WITH THE ABOVE AND, IN ADDITION, WILL HAVE KNURLED OPERATING HARDWARE (I.E., ELECTRICAL/TELEPHONE ROOMS).

5. ALL ENVIRONMENTAL CONTROLS AND OPERATING MECHANISMS WILL COMPLY WITH IAC 400.310(r) (FRONT REACH BETWEEN 15" AND 48" AFF).

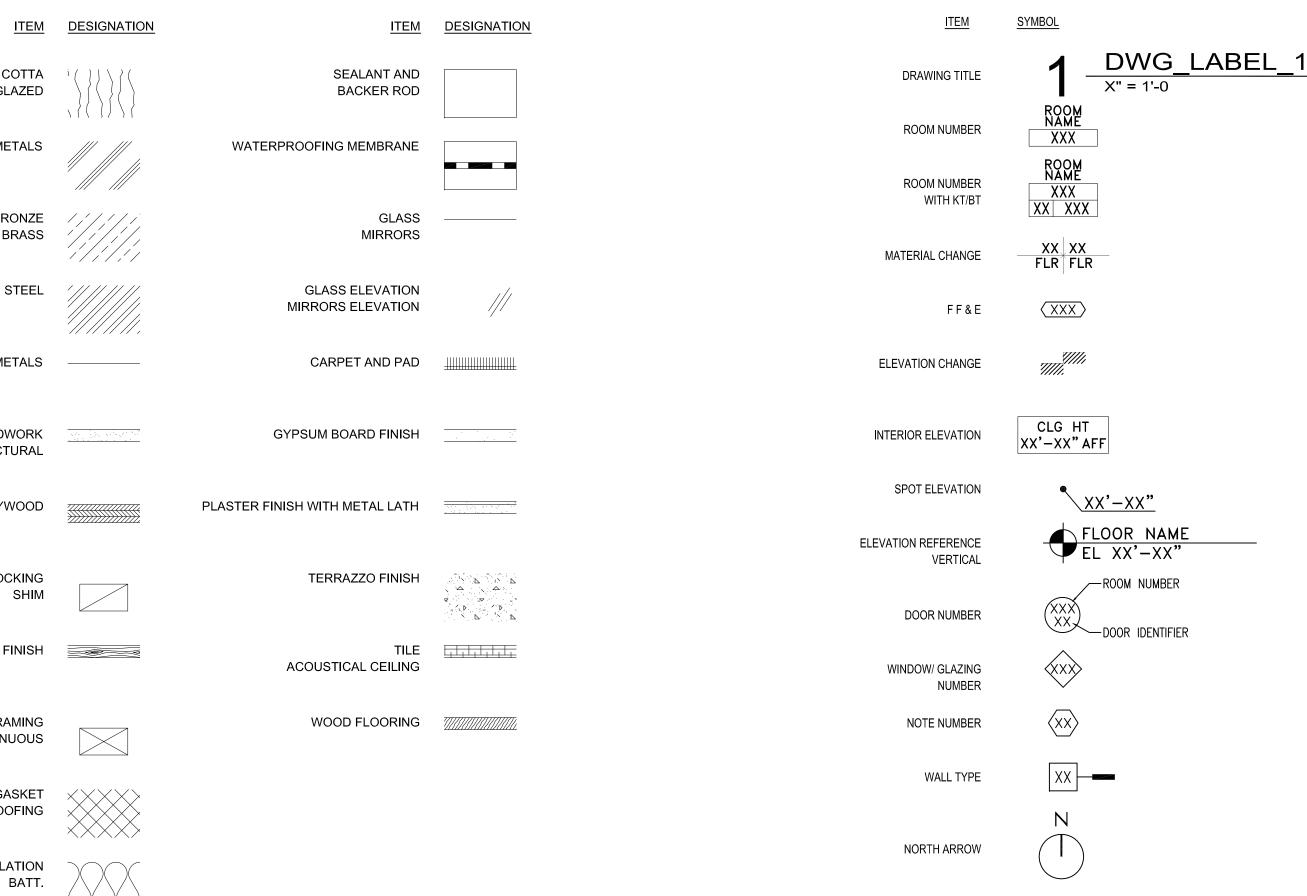
6. ALL EMERGENCY WARNING ALARMS, WHERE PROVIDED, SHALL BE BOTH AUDIBLE AND VISUAL AND COMPLY WITH IAC 400.310(s). THE VISUAL ALARMS WILL BE FLASHING TYPE WHERE THE FLASHING IS SYNCHRONIZED AND IN COMPLIANCE FOR INTENSITY AND FREQUENCY, ALL TENANT SPACES WILL BE WIRED FOR FUTURE INSTALLATION OF EMERGENCY WARNING ALARMS ON AN AS NEEDED BASIS (SEE SECURITY DRAWINGS).

7. ANY NEW REQUIRED SIGNAGE IN CONTRACT SHALL BE INSTALLED AS REQUIRED PER IAC 400.310(u).

8. TOILET ROOMS SERVING PUBLIC AREAS (I.E., LOBBIES, CONCOURSE, ETC.) WILL FULLY COMPLY WITH IAC 400.310(n).

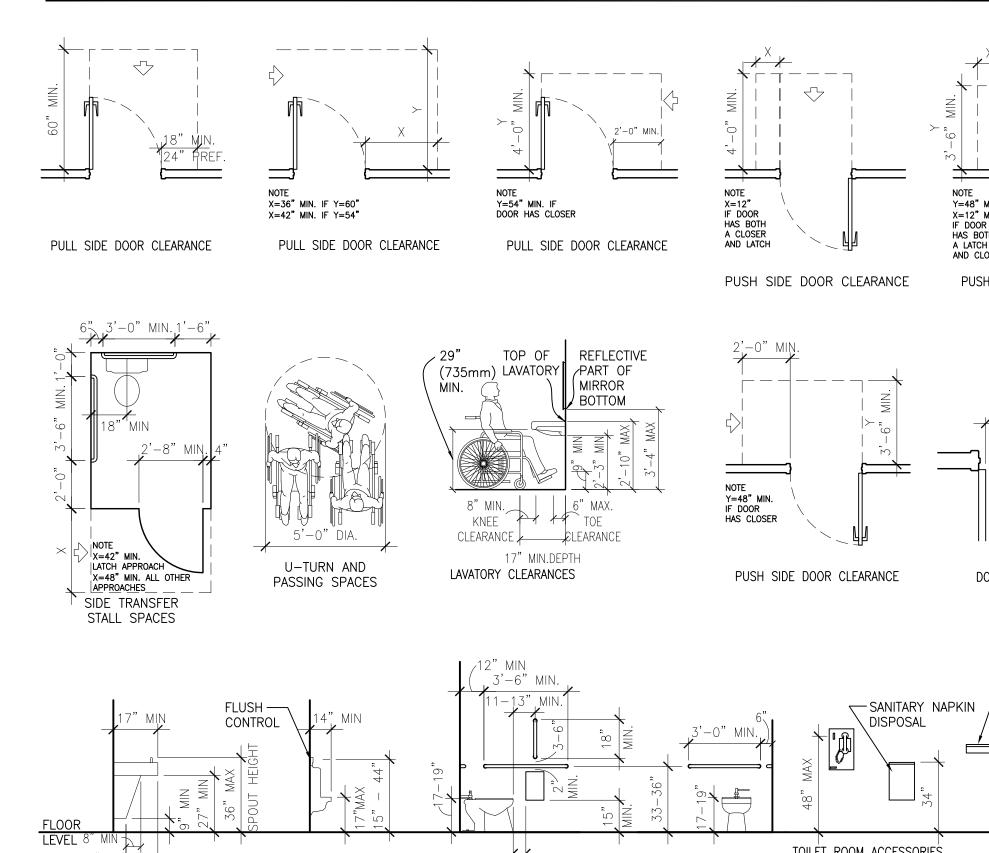
9. REFER TO CHAPTER 1341 MN BUILDING CODE

### SYMBOLS LEGEND



### ACCESSIBILITY CLEARANCES

11" MIN



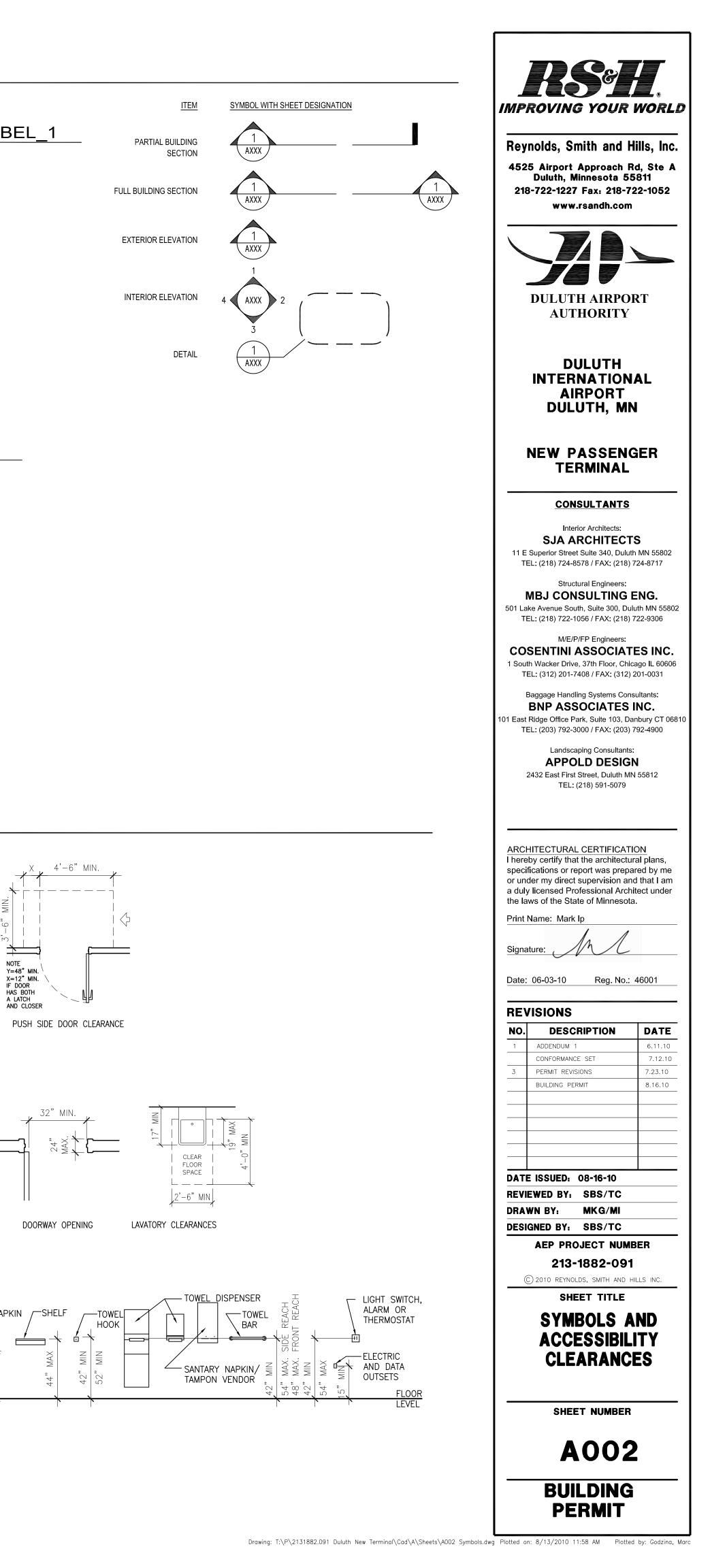
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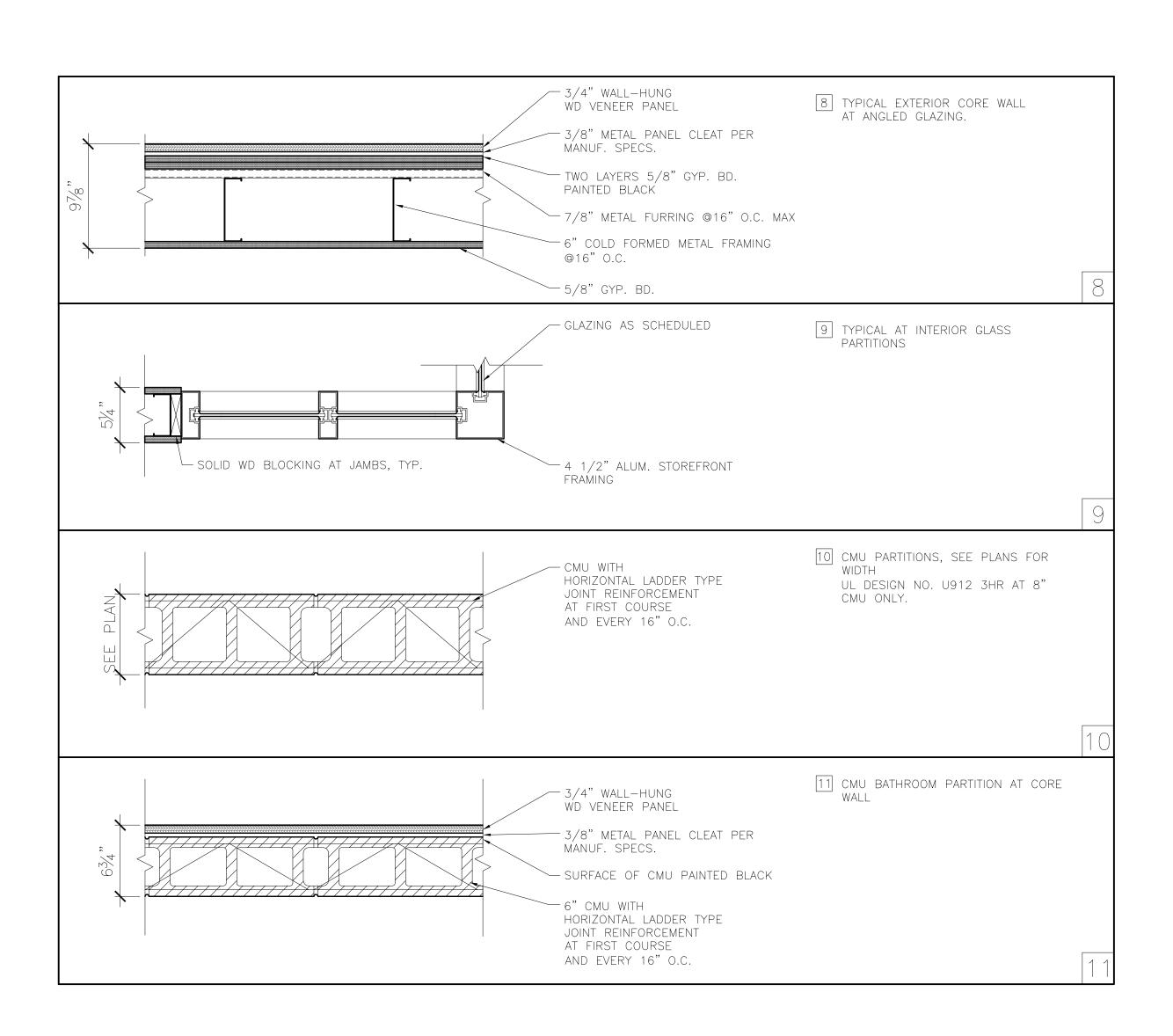
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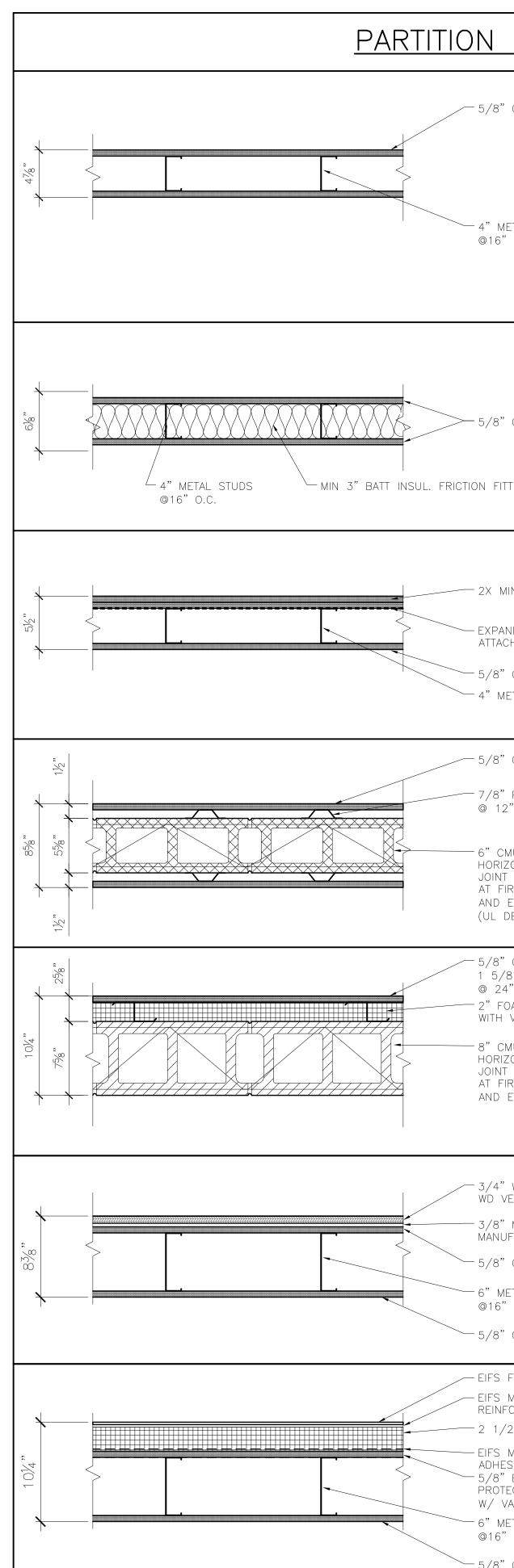
WATER CLOSET ELEVATIONS

URINAL

TOILET ROOM ACCESSORIES



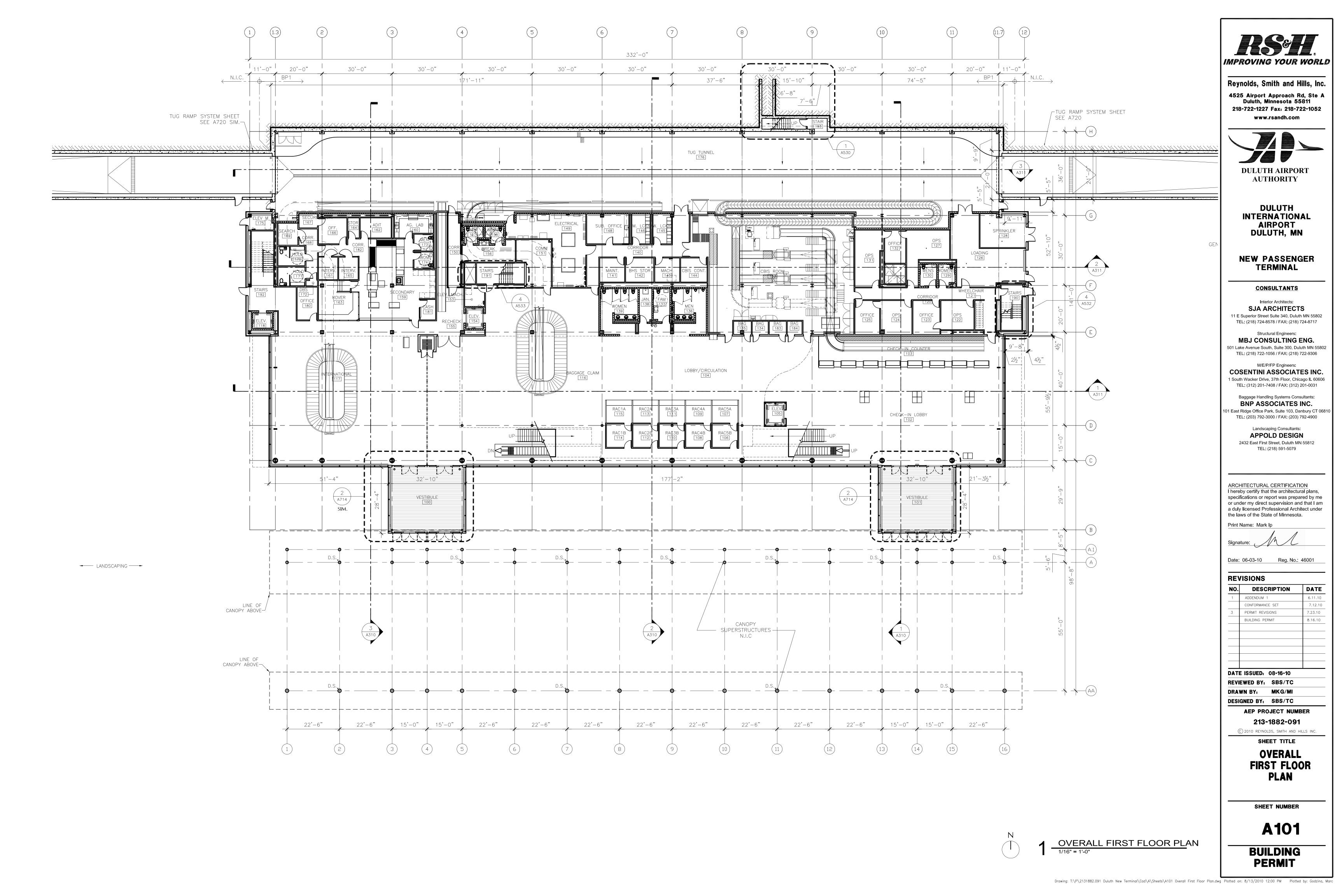


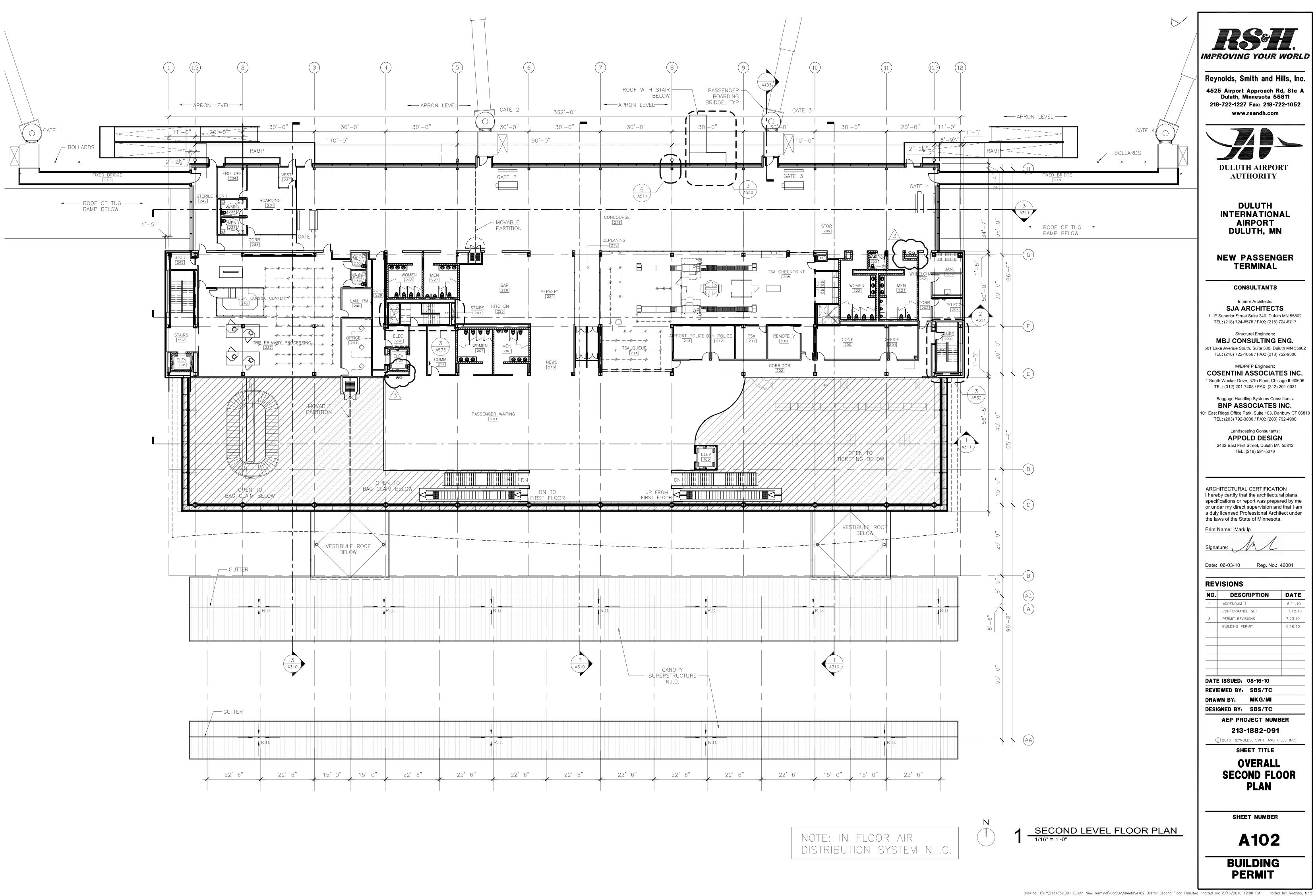


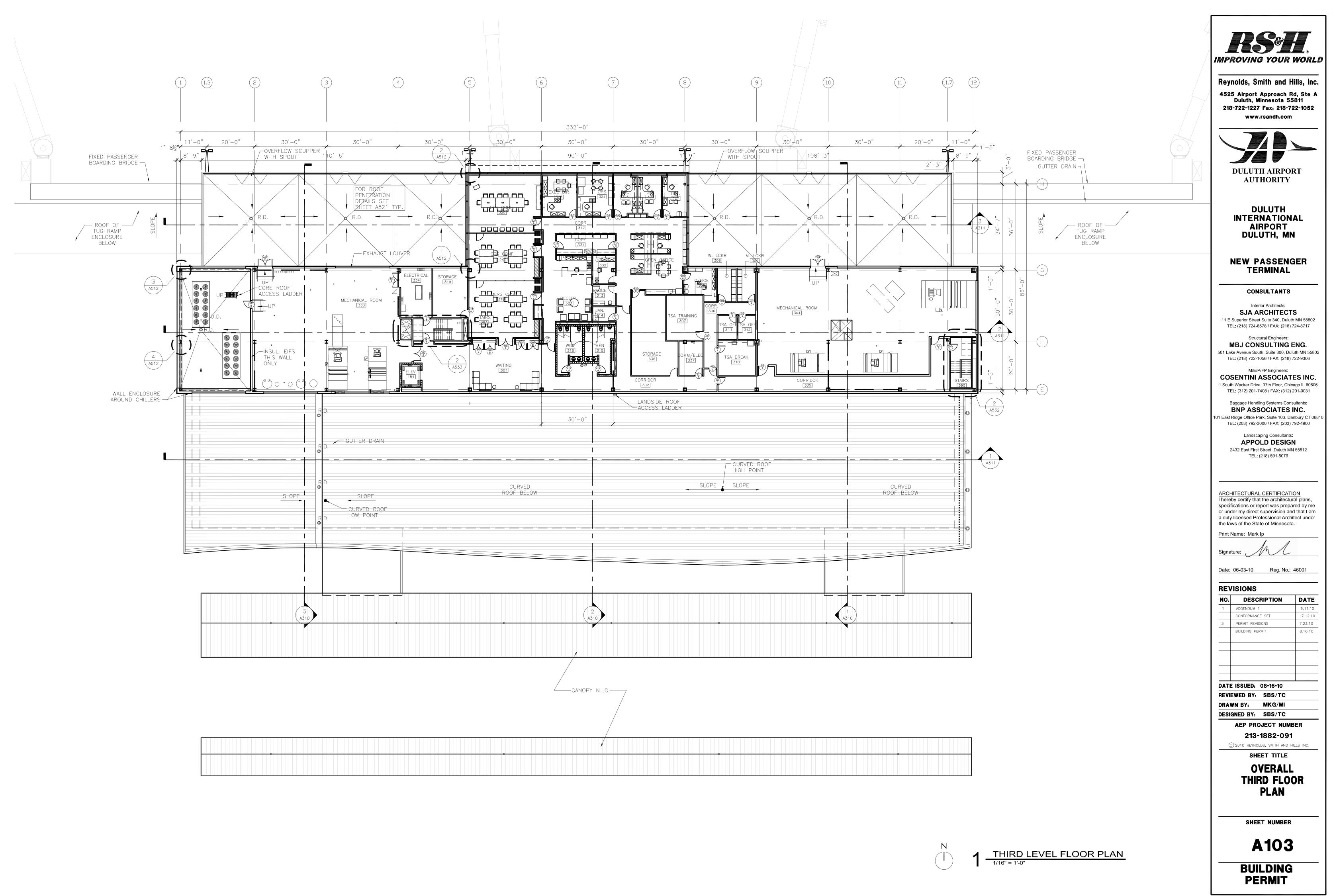
TYPES			
" GYP. BD.	1	TYPICAL AT INTERIOR PARTITIONS TO 6" ABOVE HIGHEST CEILING OR UNDERSIDE OF DECK WHERE OPEN TO STRUCTURE.	
	1A 1B 1C	SIMILAR WITH GYP. BD. 1 SIDE ONLY SIMILAR WITH 6" METAL FRAMING SIMILAR WITH 6" METAL FRAMING	
METAL STUDS 5"O.C.	1D 1E	AND GYP. BD. 1 SIDE ONLY SIMILAR WITH 8" METAL FRAMING SIMILAR WITH 8" METAL FRAMING AND GYP. BD. 1 SIDE ONLY	
	1F	SIMILAR WITH 8" METAL FRAMING AND GYP. BD. AND SOUND ATTENUATING BATT. INSUL.	1
	2	TYPICAL AT 1 HR FIRE RATED PARTITIONS TO UNDERSIDE OF STRUCTURAL DECK UNLESS OTHERWISE NOTED	
" GYP. BD.	2A	ul design no. u404 Similar with 8" framing	
ITTED BETWEEN STUDS	2B	TYPICAL AT TENANT PARITITIONS. SIMILAR TO UNDERSIDE OF CEILING ONLY.	
			2
MIN 1/2" GYP. BD.	3	TYPICAL AT CBP SECURE ROOMS TO 6" ABOVE CEILING UNLESS OTHERWISE NOTED. STC RATING 50–55	
ANDED METAL DIAMOND MESH ACHED TO STEEL STUDS	3A)	SIMILAR WITH DOUBLE GYP. BD. AND EXPANDED METAL BOTH SIDES	
" GYP. BD. /ETAL STUDS @16" O.C.		NOTE: EXPANDED METAL MUST BE INSPECTED BY CPB PRIOR TO COVERING	
"GYP. BD.	4	TYPICAL AT TOILET ROOMS TO 6" ABOVE CEILING UNLESS OTHERWISE	
"FURRING CHANNELS 2"O.C.	4A	NOTED. SIMILAR WITH FURRING AND GYP. BD. ON ONE SIDE ONLY	
CMU WITH IZONTAL LADDER TYPE	4B		
T REINFORCEMENT FIRST COURSE EVERY 16" O.C. DESIGN NO. U906)	4C		4
"GYP. BD. ON /8" WIDE FURRING STRIP 4" O.C.	5	TYPICAL AT TUG TUNNEL WALL UL DESIGN NO. U912 3HR	
OAMED PLASTIC RIGID INSUL. I VAPOR BARRIER ON WARM SIDE			
CMU WITH IZONTAL LADDER TYPE T REINFORCEMENT FIRST COURSE EVERY 16"O.C.			
" WALL-HUNG VENEER PANEL	6	TYPICAL AT CORE WALL	
' METAL PANEL CLEAT PER JF. SPECS.	6A	SIMILAR WITH GYP. BD. ON PANEL	
' GYP. BD. PAINTED BLACK	ЮВ	SIMILAR WITH 8" COLD FORMED METAL FRAMING INSTEAD OF 6"	
IETAL STUDS "O.C.			
'GYP. BD.			6
FINISH SYSTEM MANUF. RECOMMENDED FORCING MESH /2" RIGID INSULATION	7	BUILDING ENCLOSURE AT CHILLER WELL	
MANUF. RECOMMENDED ESIVE " EXT. GRADE TECTION BOARD VAPOR BARRIER			
METAL STUDS 5" O.C.			
" GYP. BD.			7

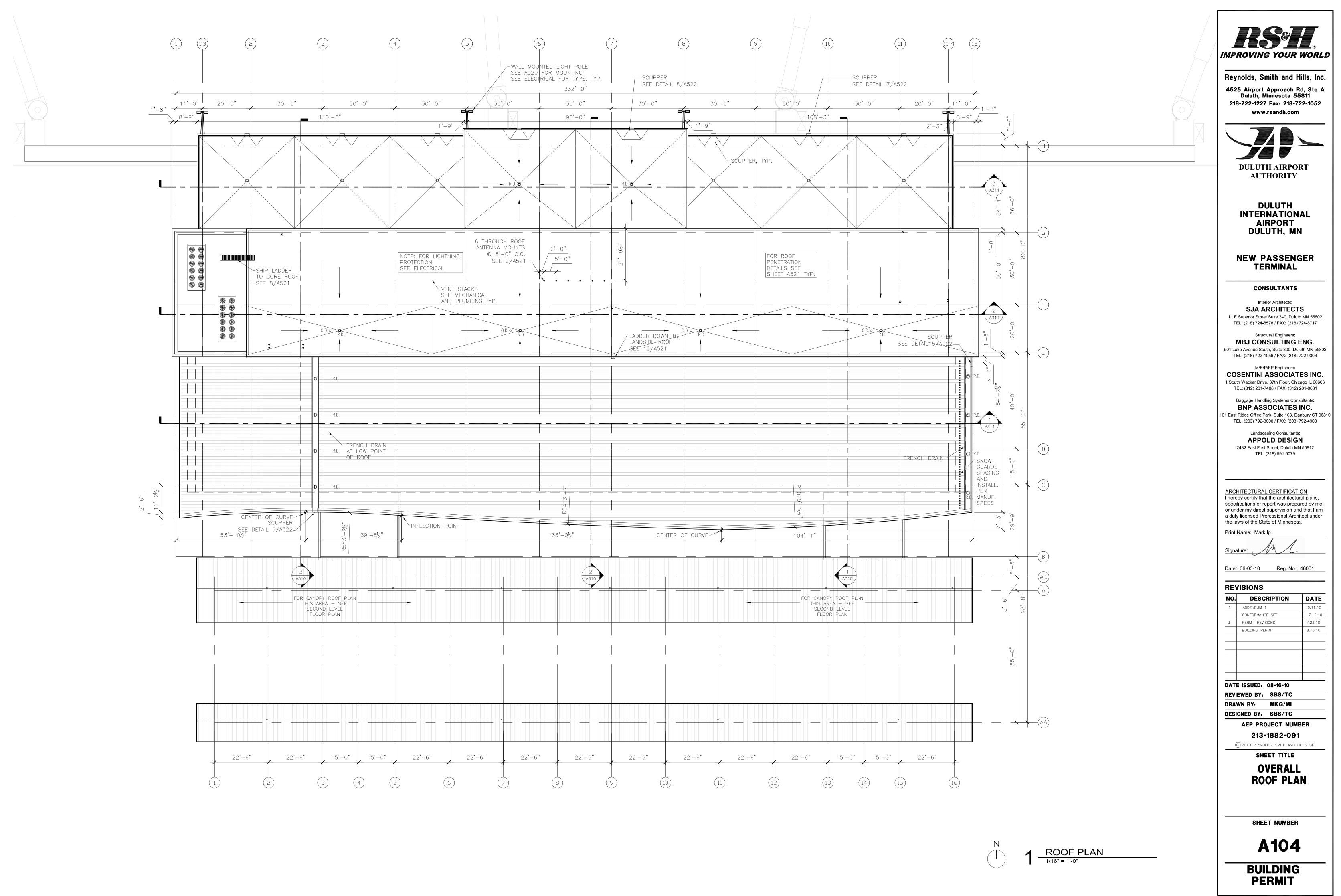
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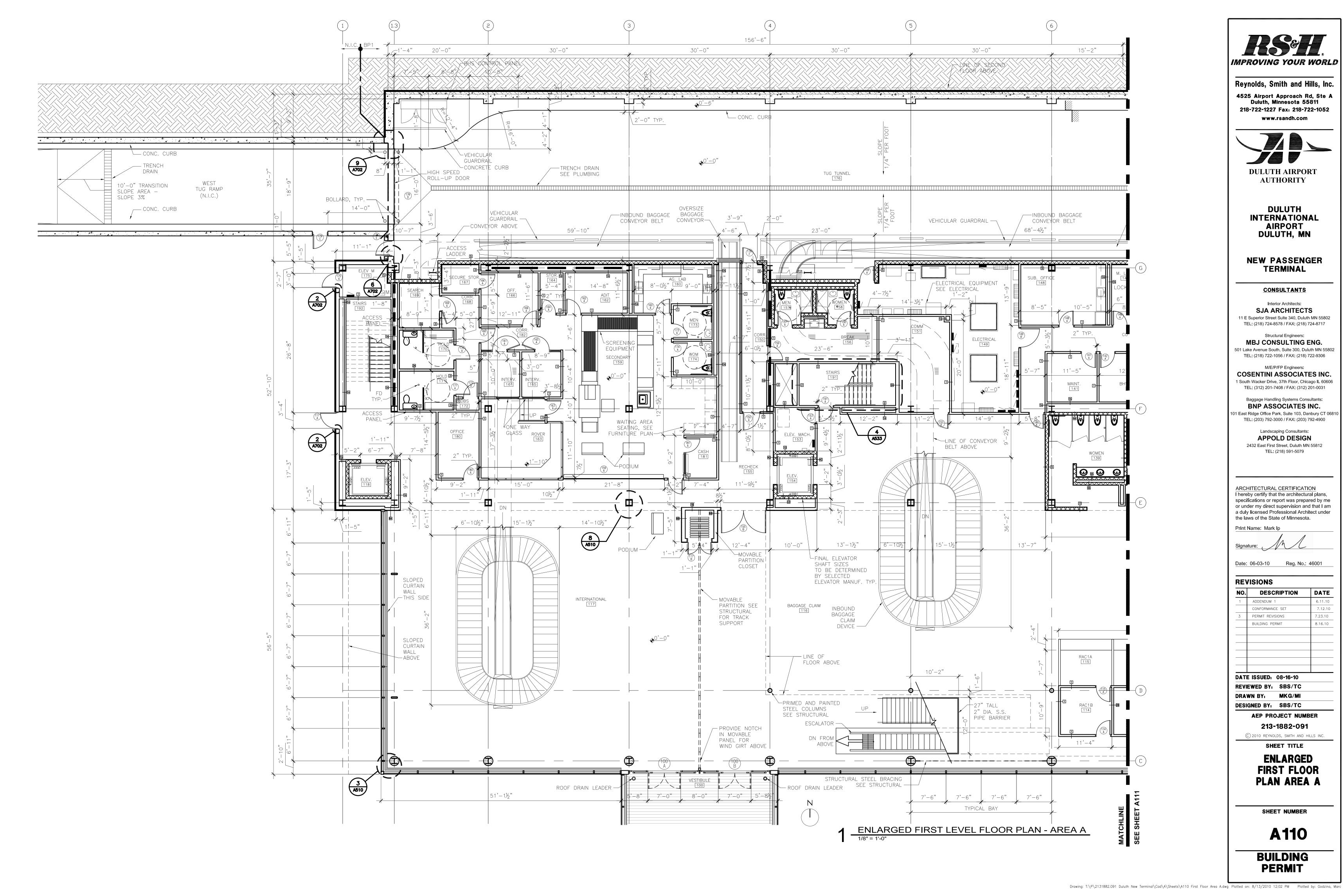
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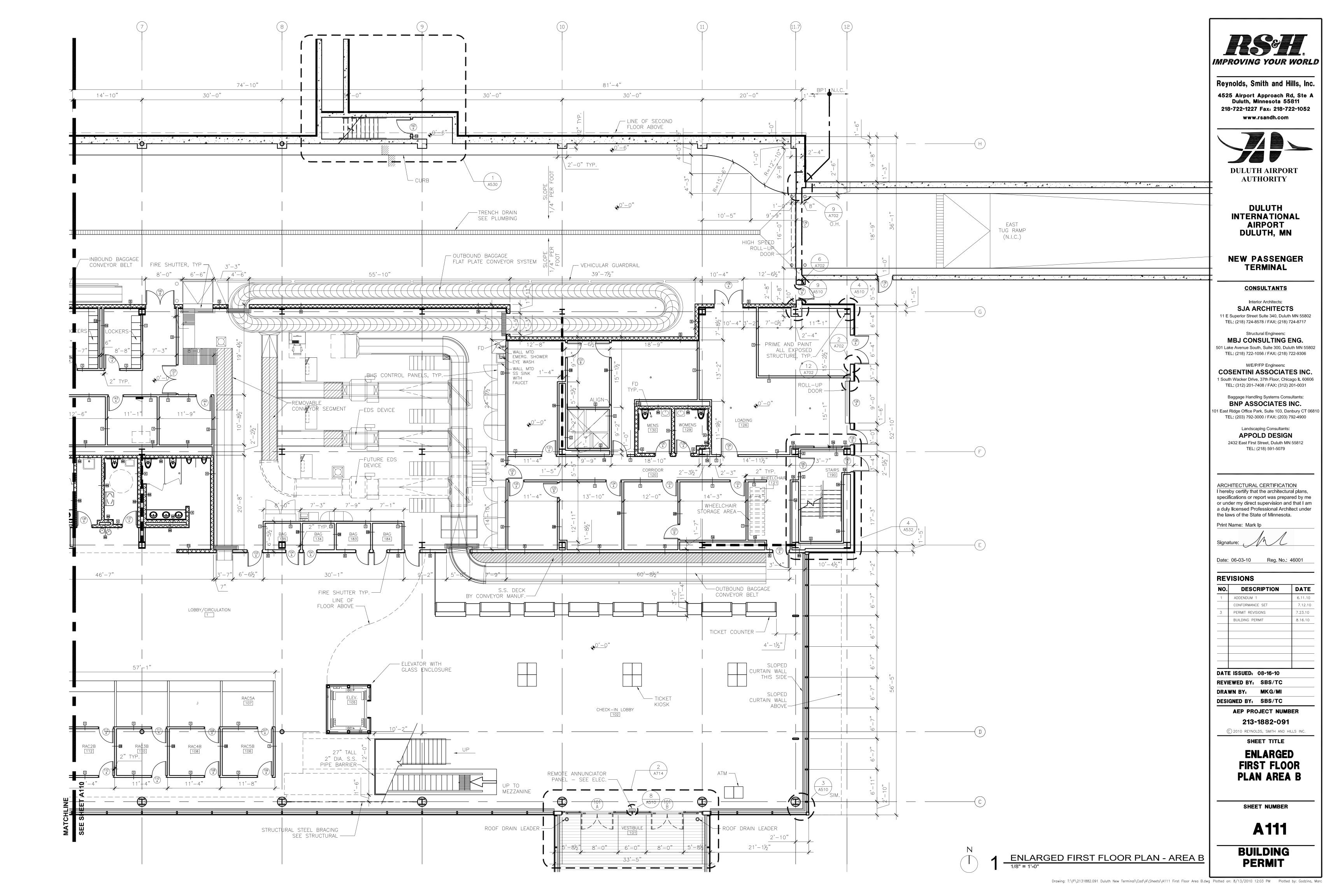


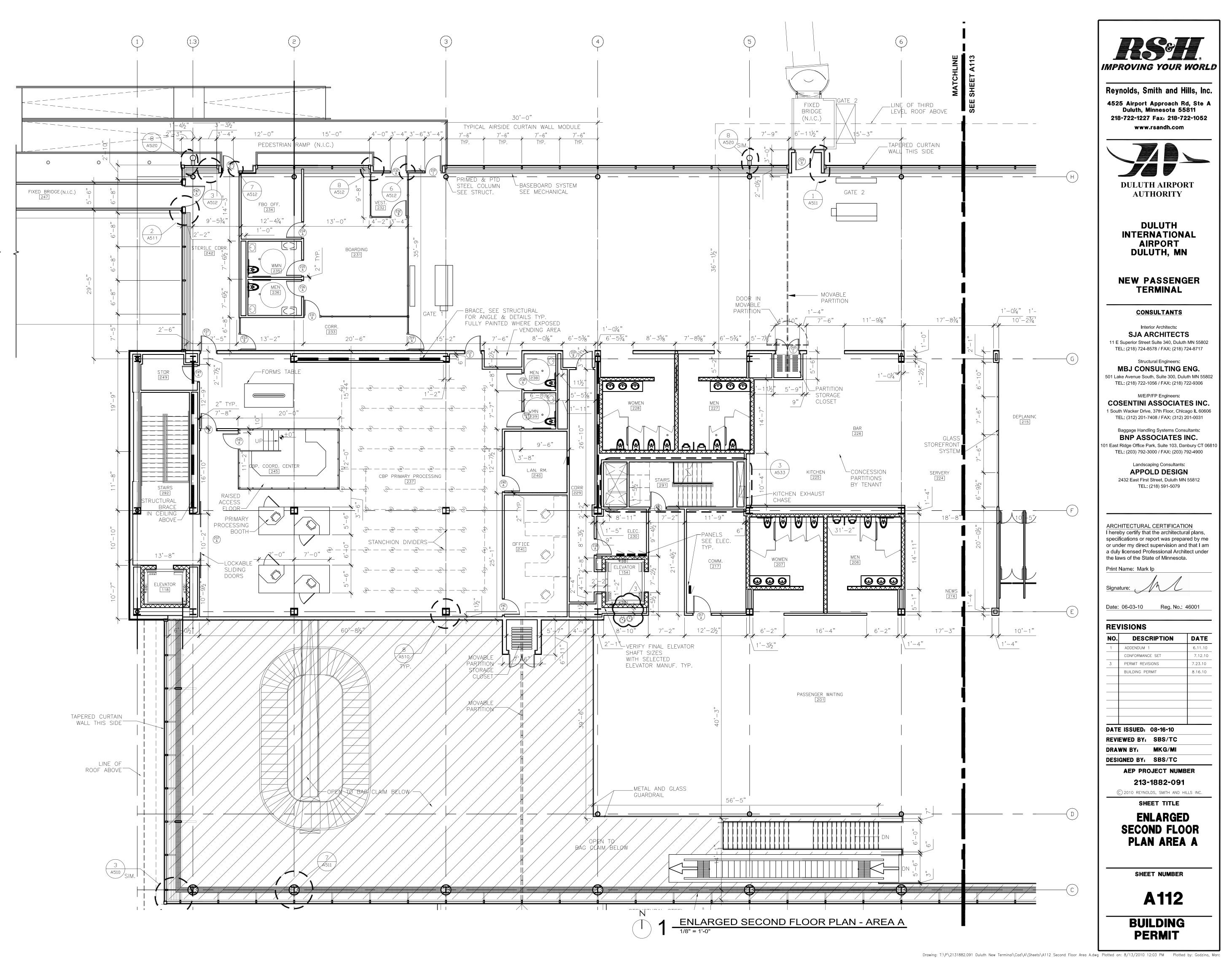


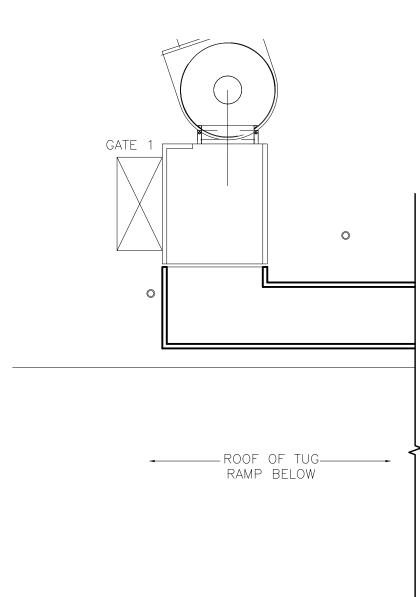


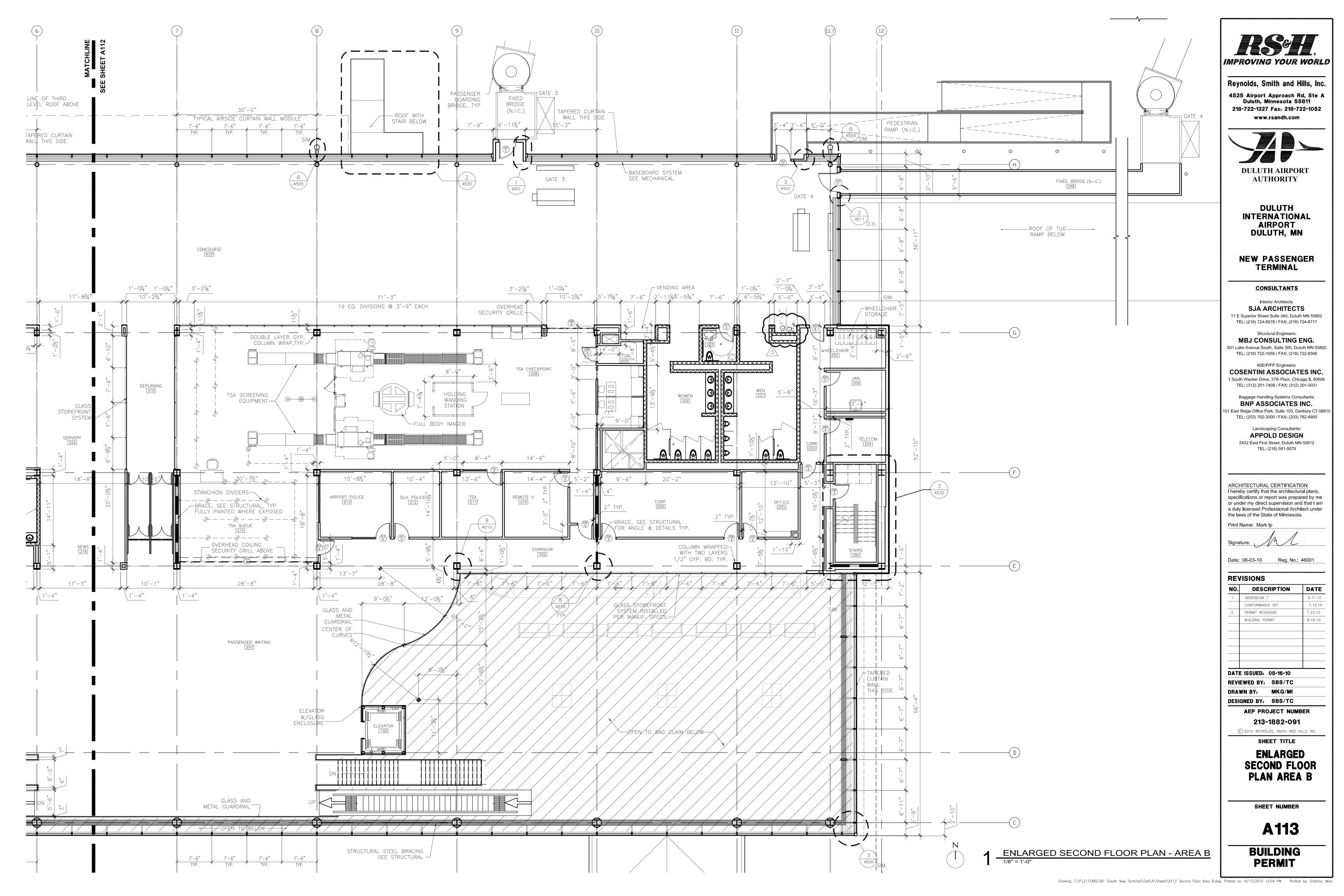


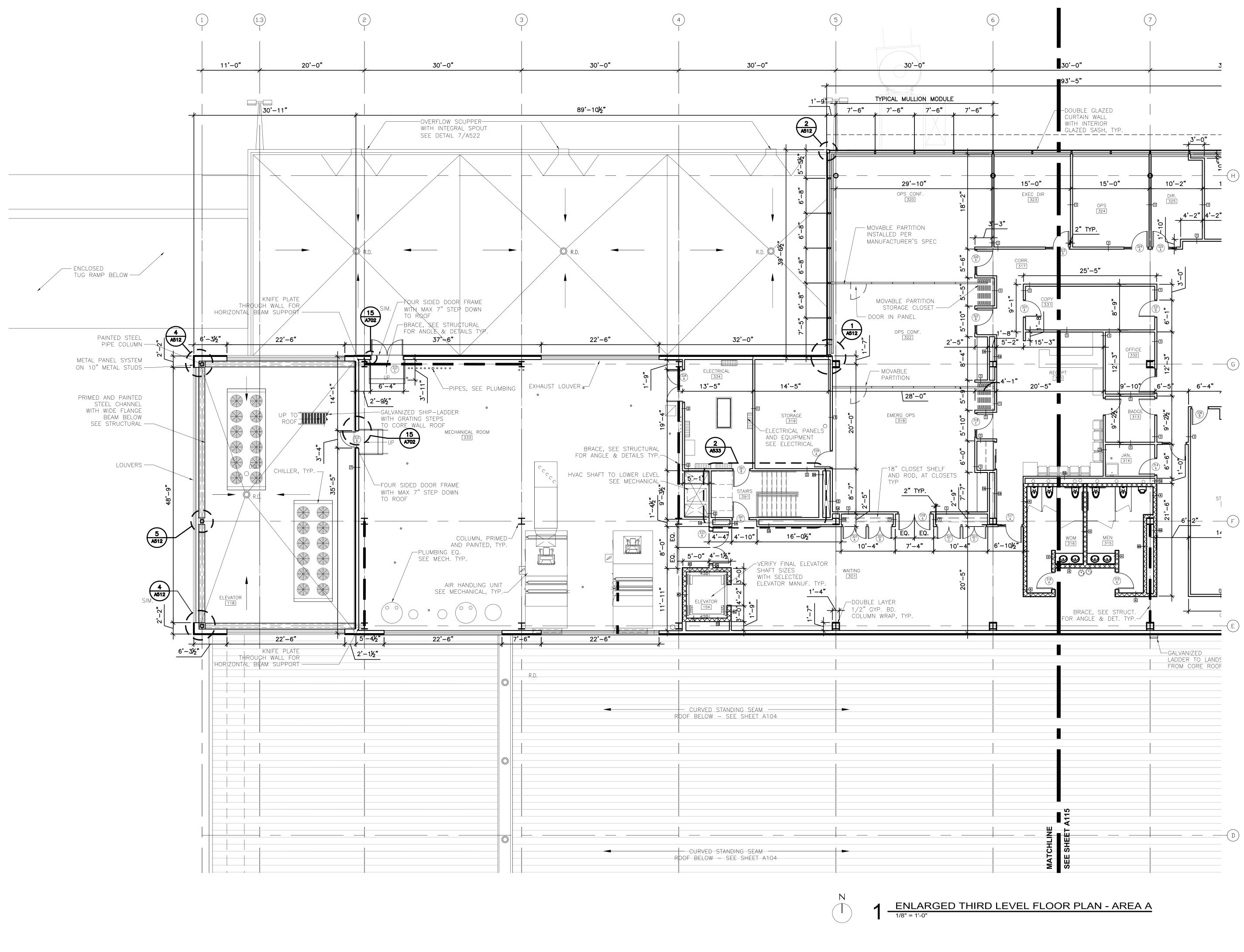
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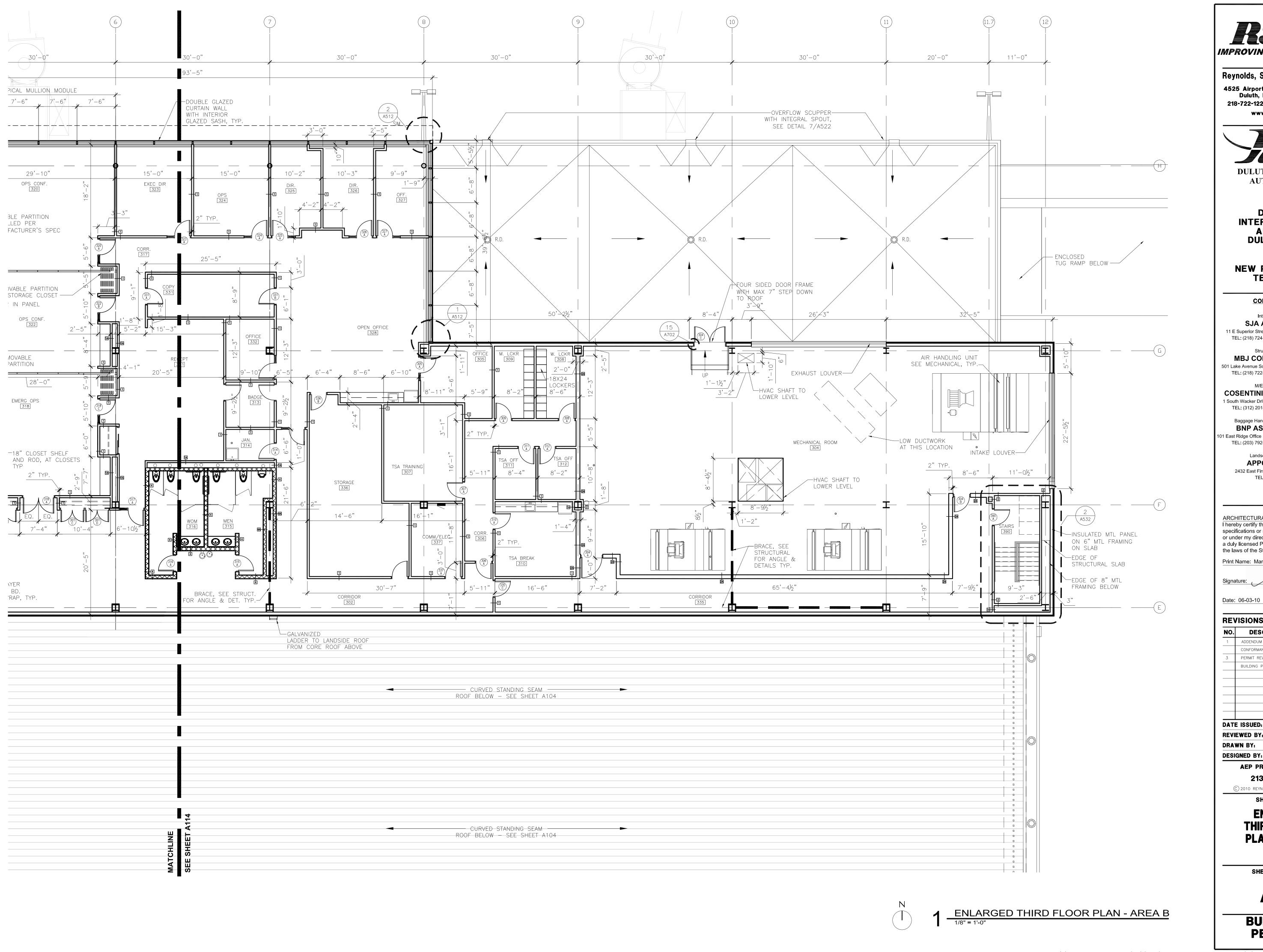




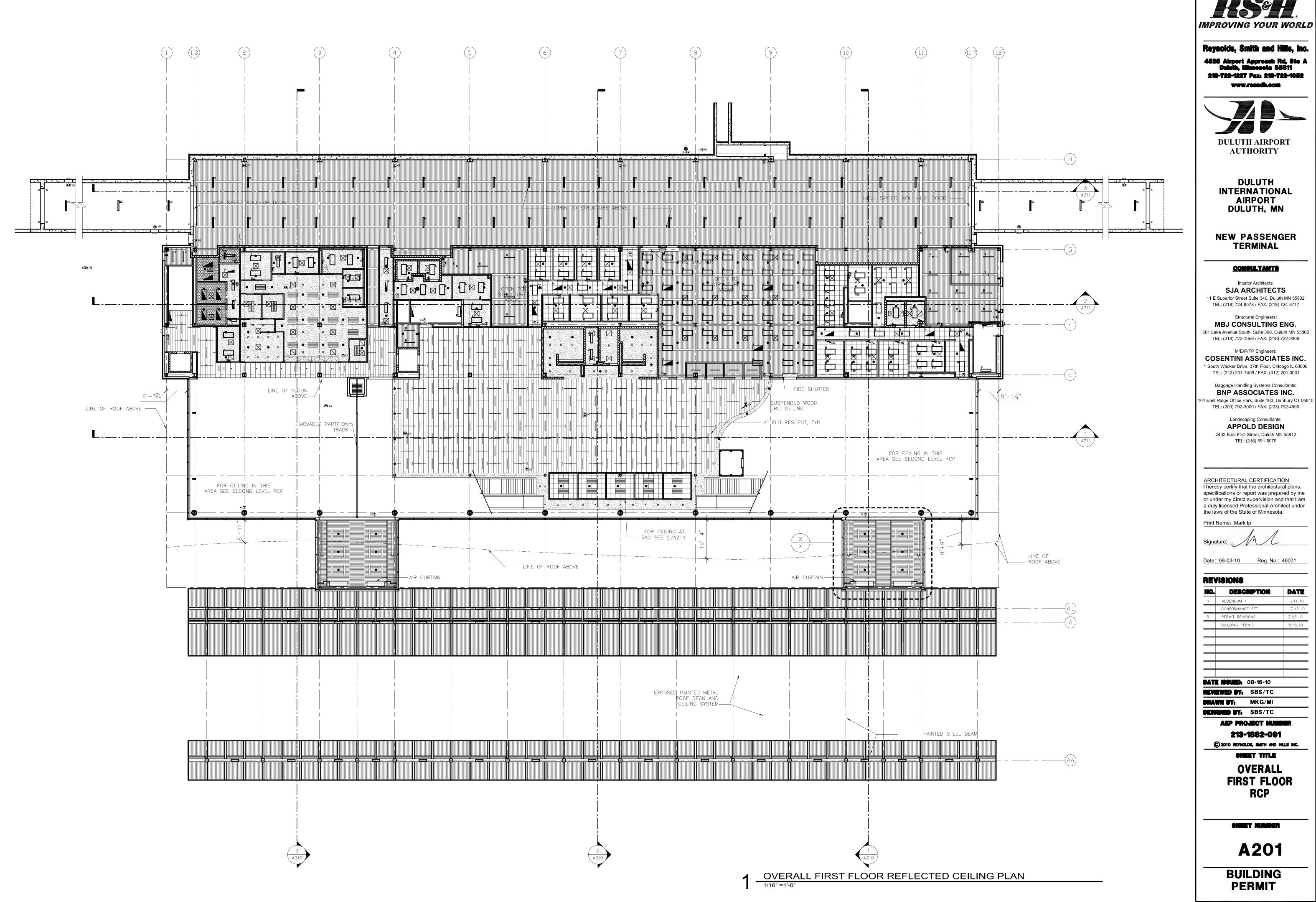


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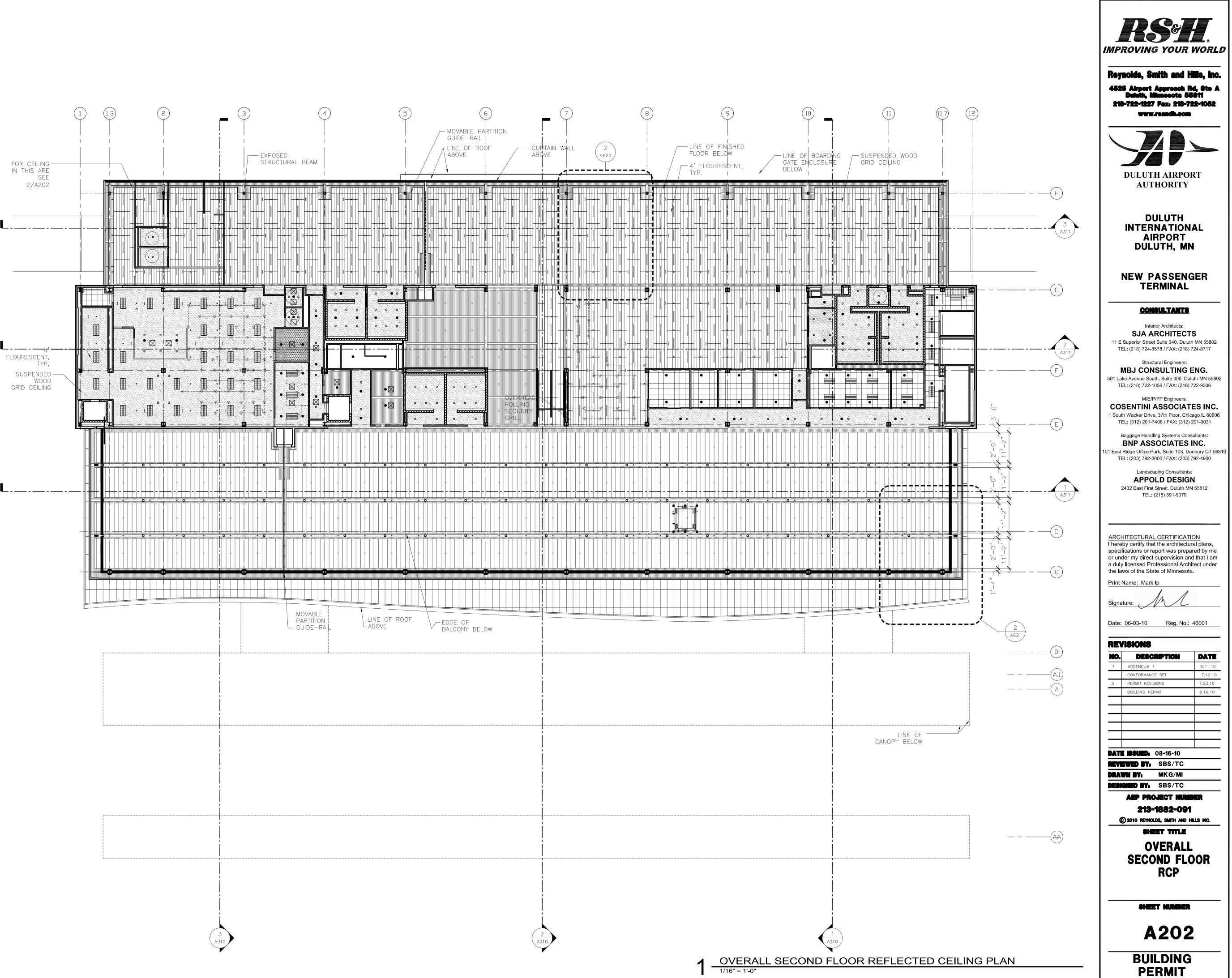
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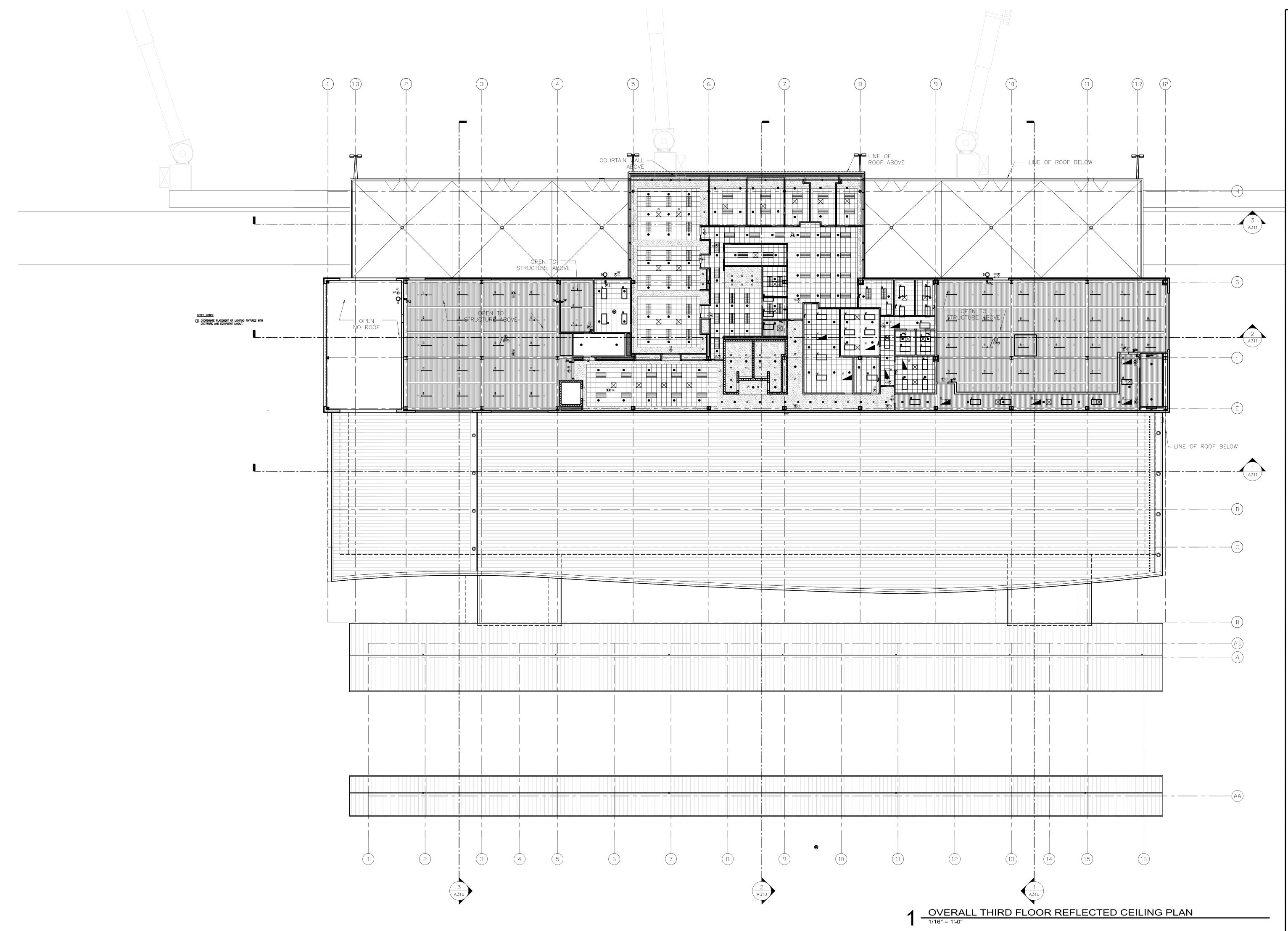


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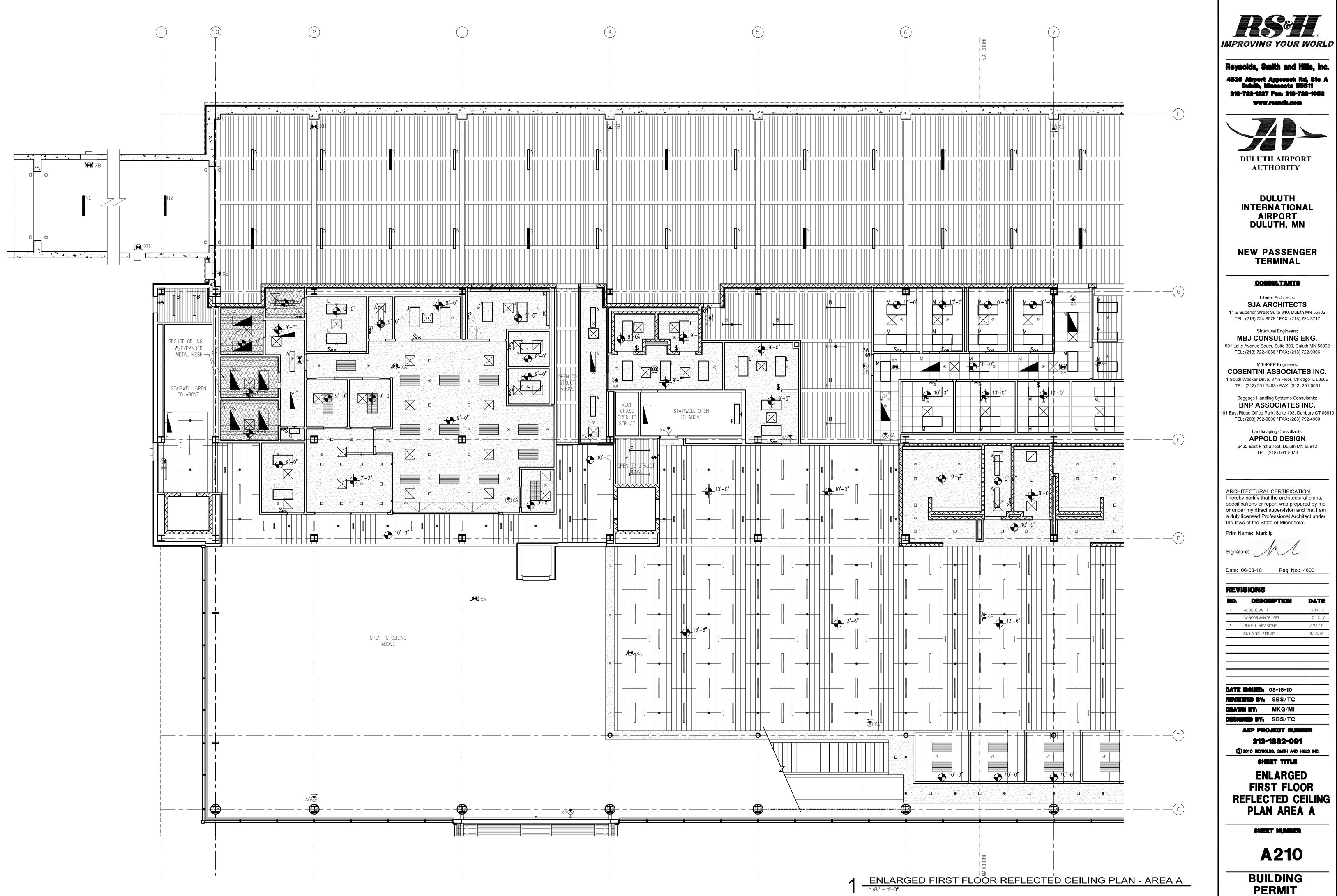
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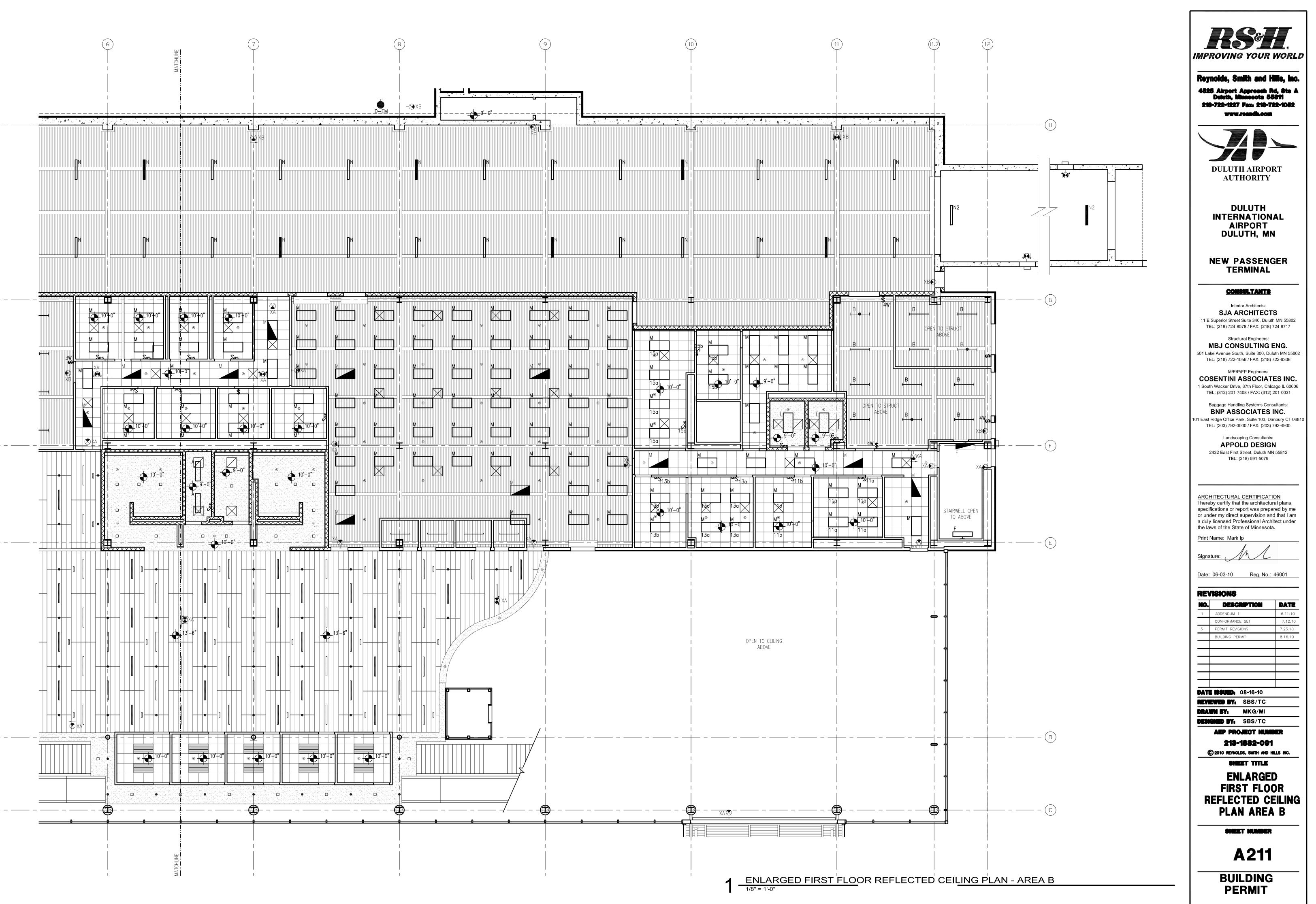




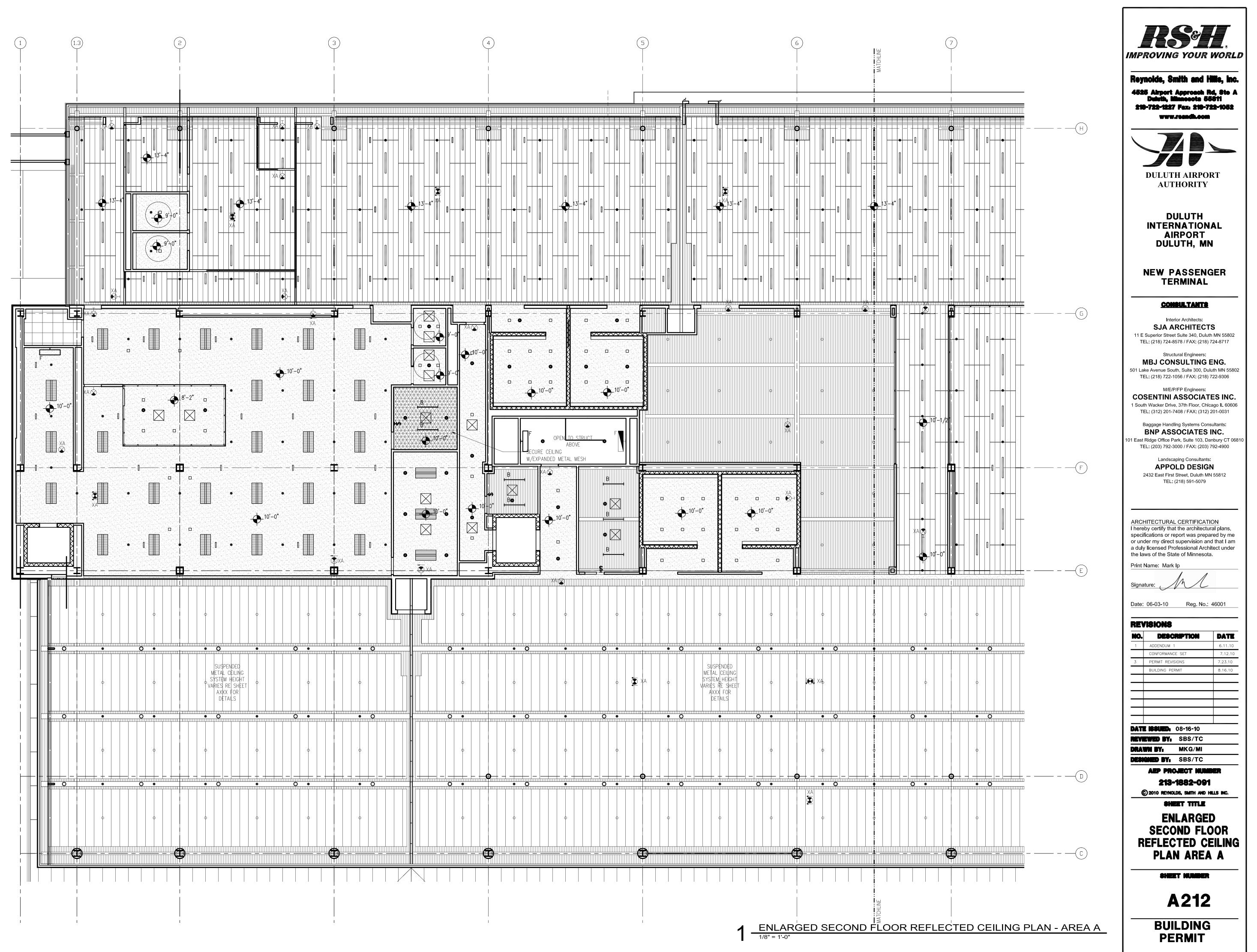
IMP	RS <sup>®</sup> ROVING YOUR	NORLD	
452	Reynolds, Smith and Hills, Inc. 4525 Airport Approach Rd, Ste A Duluth, Minnecota 55811 218-722-1227 Fex: 218-722-1052 www.reandh.com		
	DULUTH AIRPOR AUTHORITY	T	
	DULUTH INTERNATION/ AIRPORT DULUTH, MN		
	NEW PASSENG TERMINAL	ER	
	CONSULTANTS		
	Interior Architects: <b>SJA ARCHITECTS</b> Superior Street Suite 340, Duluth EL: (218) 724-8578 / FAX: (218) 73	MN 55802	
501 La	Structural Engineers: <b>MBJ CONSULTING E</b> ake Avenue South, Suite 300, Dulu EL: (218) 722-1056 / FAX: (218) 73	th MN 55802	
1 Sou	M/E/P/FP Engineers: SENTINI ASSOCIATE th Wacker Drive, 37th Floor, Chica EL: (312) 201-7408 / FAX: (312) 2	go <b>I</b> L 60606	
101 East	Baggage Handling Systems Const BNP ASSOCIATES II Ridge Office Park, Suite 103, Dan EL: (203) 792-3000 / FAX: (203) 79	N <b>C.</b> Ibury CT 06810	
	Landscaping Consultants: APPOLD DESIGN 2432 East First Street, Duluth MN TEL: (218) 591-5079		
l here speci or un a dul	HITECTURAL CERTIFICATIO by certify that the architectura fications or report was prepar der my direct supervision and y licensed Professional Archit	al plans, ed by me that I am ect under	
	aws of the State of Minnesota. Name: Mark Ip		
Signa	In A		
Date	06-03-10 Reg. No.: 4	46001	
RE	<b>/1810NS</b>		
NO.	DESCRIPTION	DATE	
1	ADDENDUM 1 CONFORMANCE SET	6.11.10 7.12.10	
3	PERMIT REVISIONS	7.23.10	
	BUILDING PERMIT	8.16.10	
DAT	DATE ISSUED, 08-16-10		
	REVIEWED BY: SBS/TC Drawn By: MKG/MI		
DES			
	AEP PROJECT NUMB	er	
ſ	213-1882-091 © 2010 reynolds, smith and hi	ls Inc.	
	SHEET TITLE		
	OVERALL THIRD FLOOR		
	RCP		
	SHEET NUMBER		
	A203		
	BUILDING PERMIT		



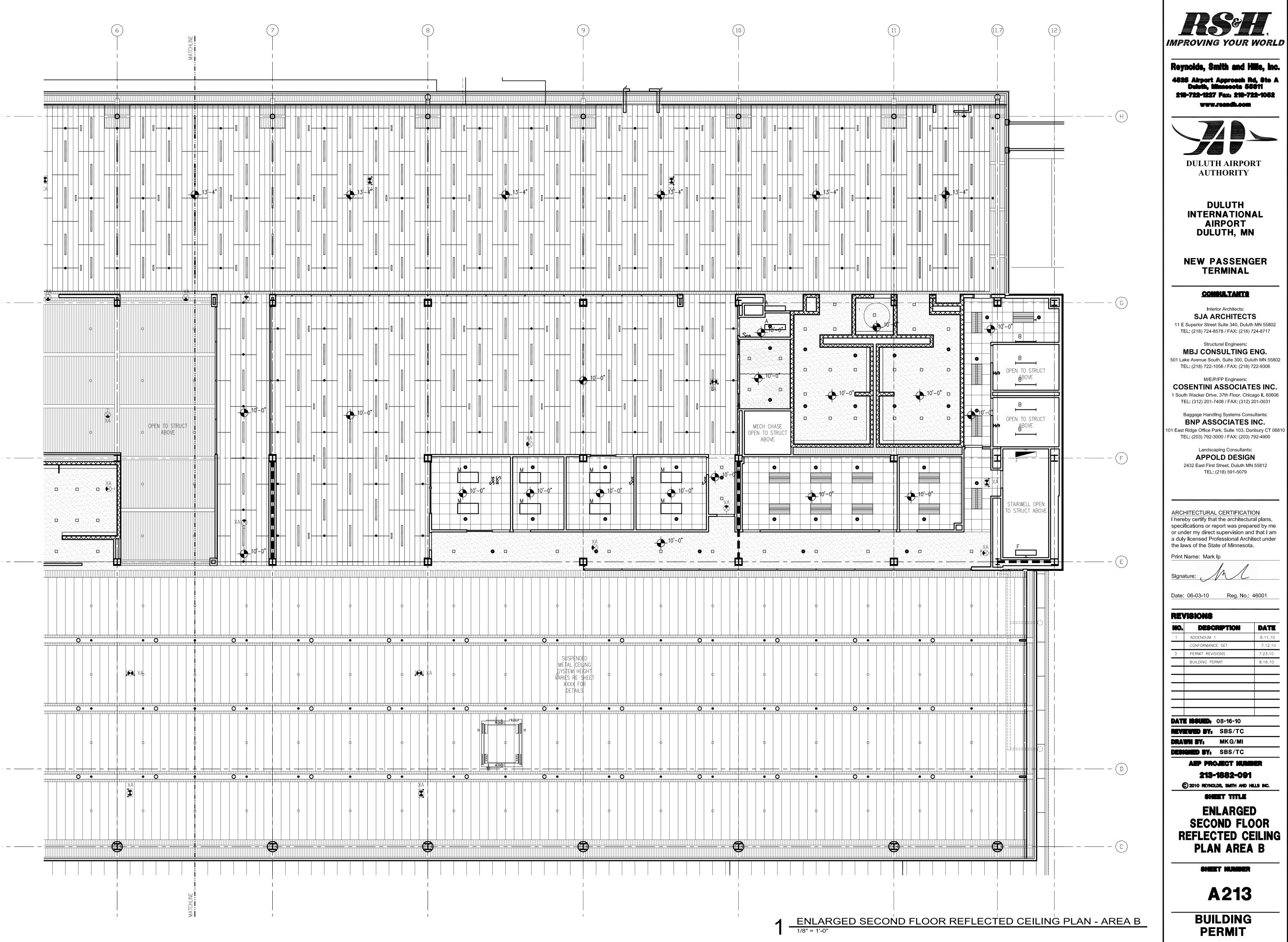
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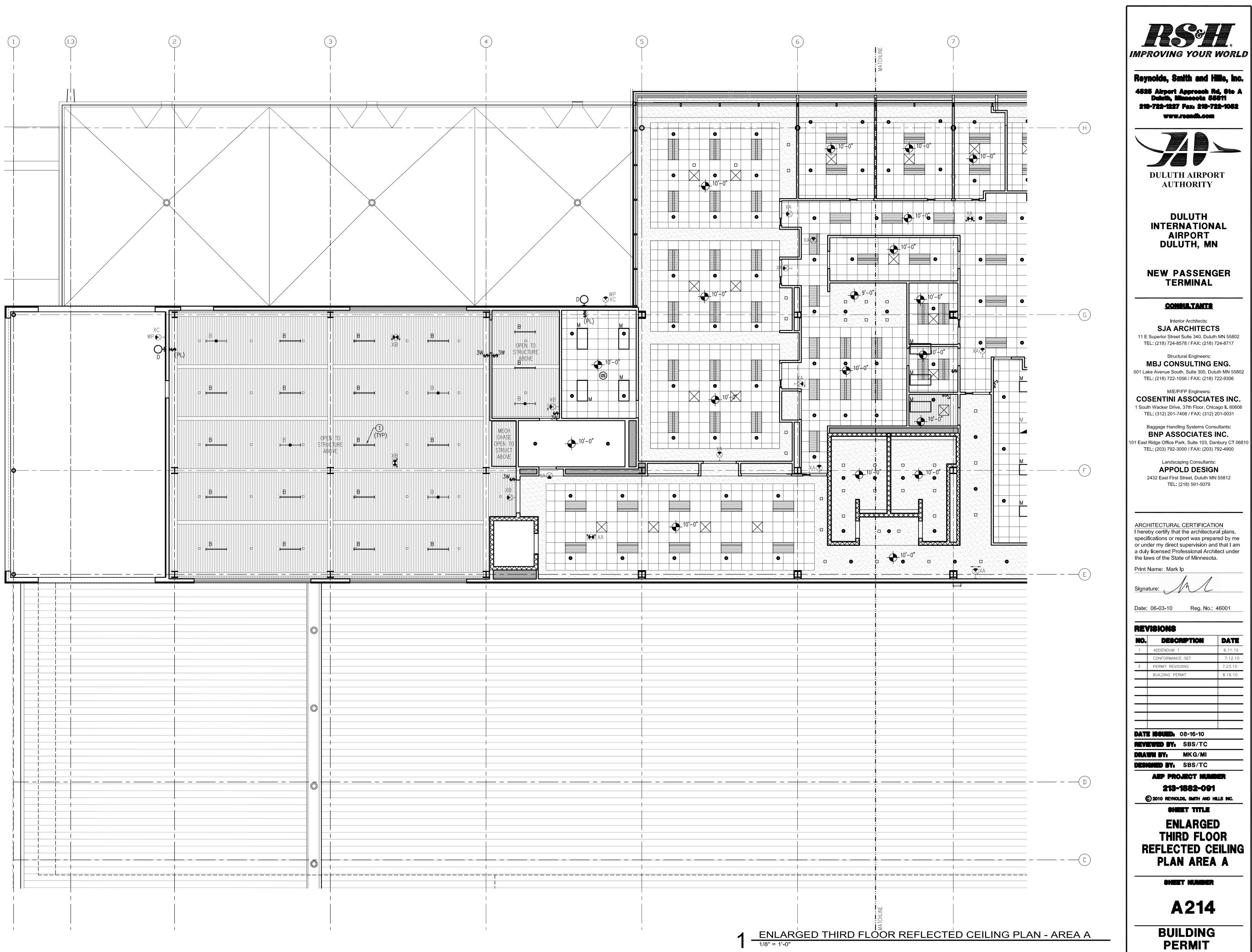
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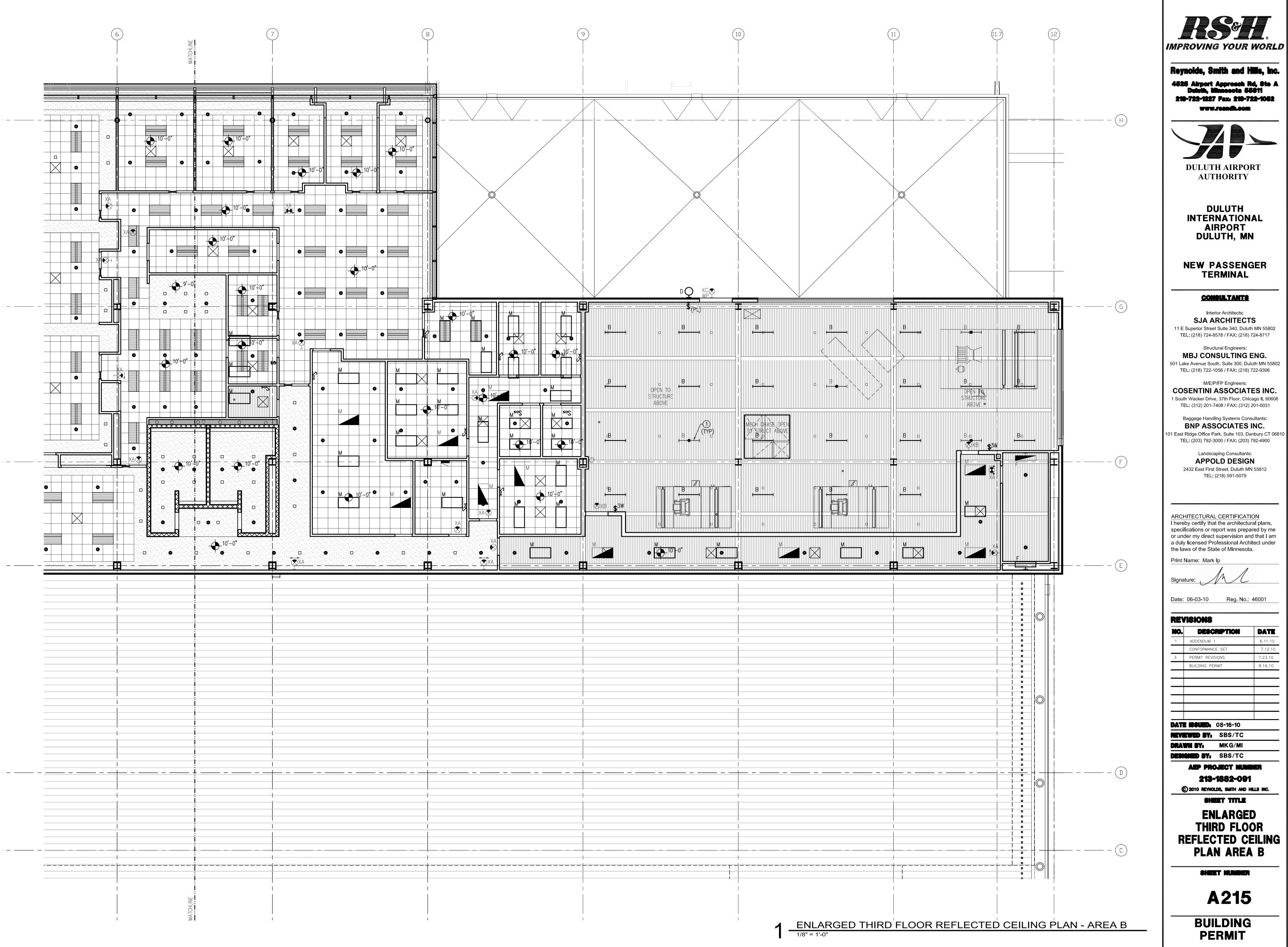
Drawing: T:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A212 Enlarged Second Floor RCP Area A.dwg Plotted on: 8/13/2010 12:10 PM Plotted by: Godzina, Marc



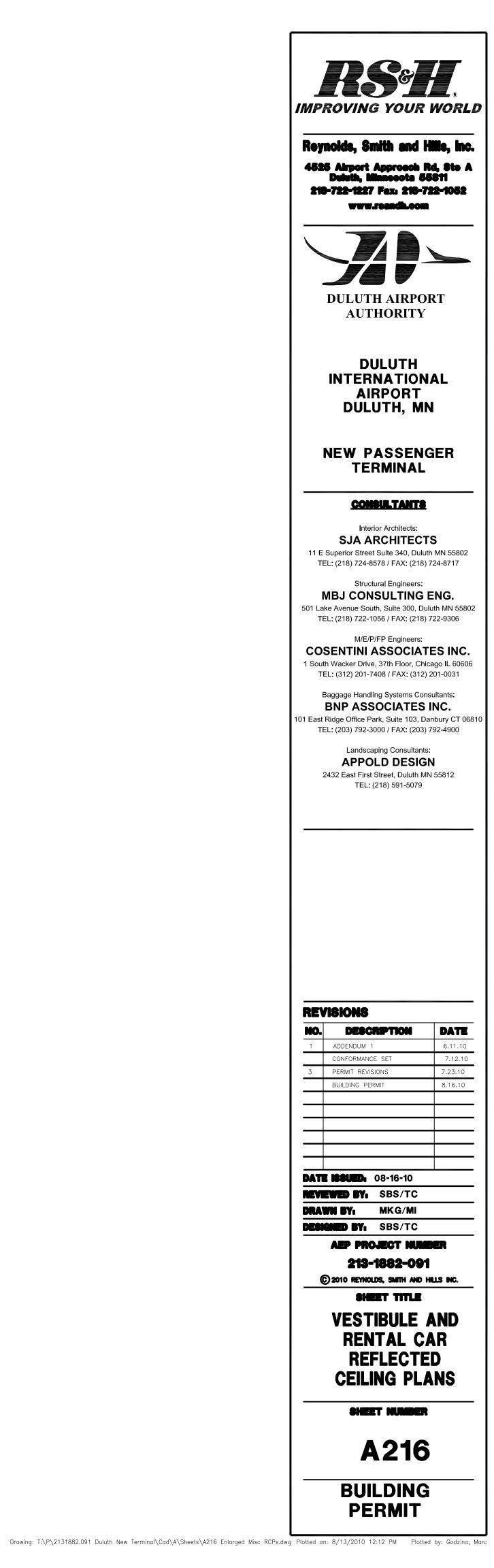
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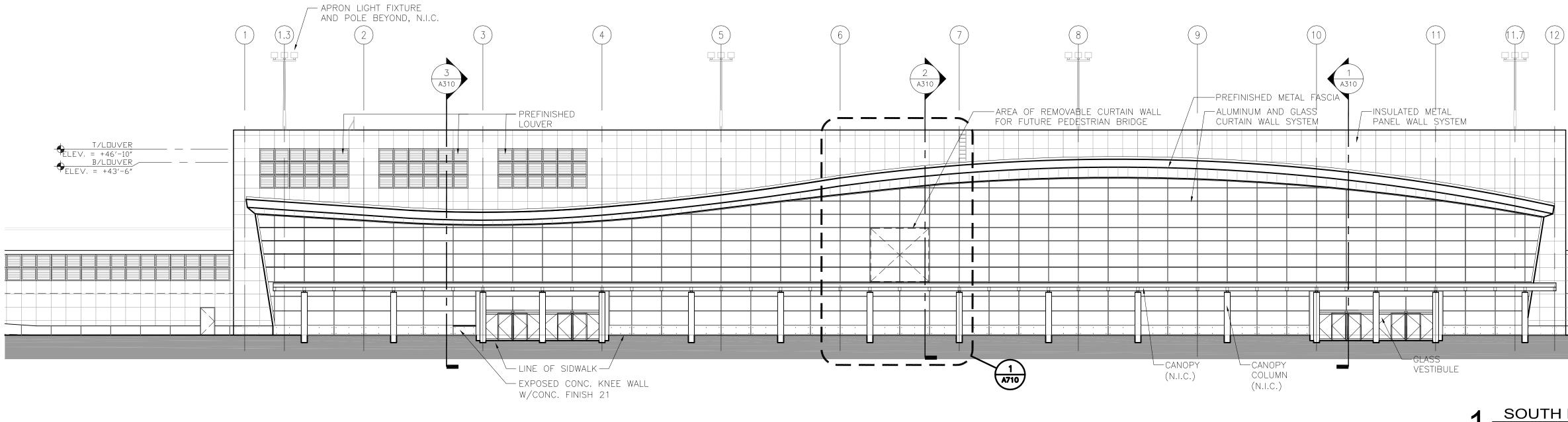


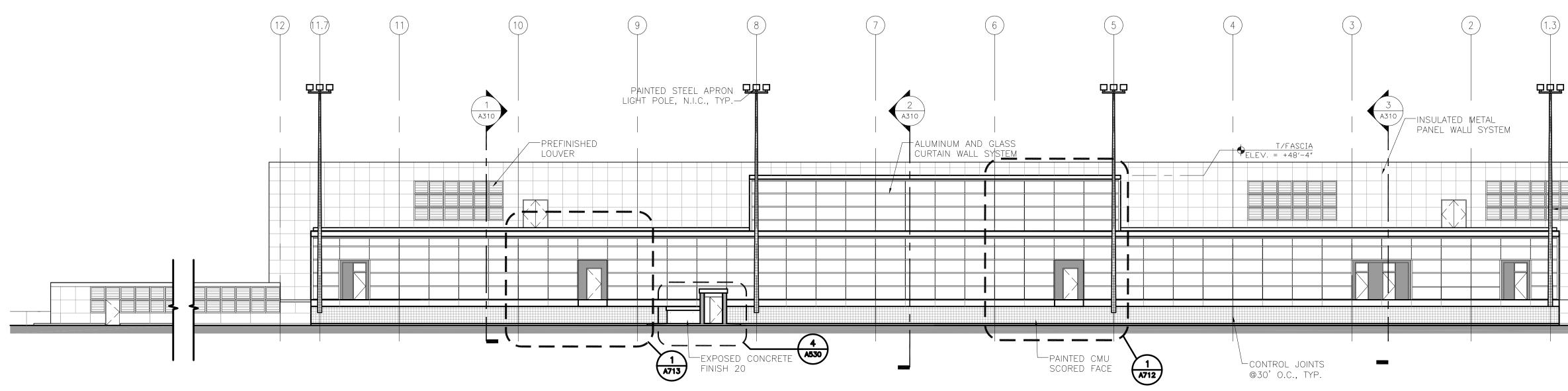
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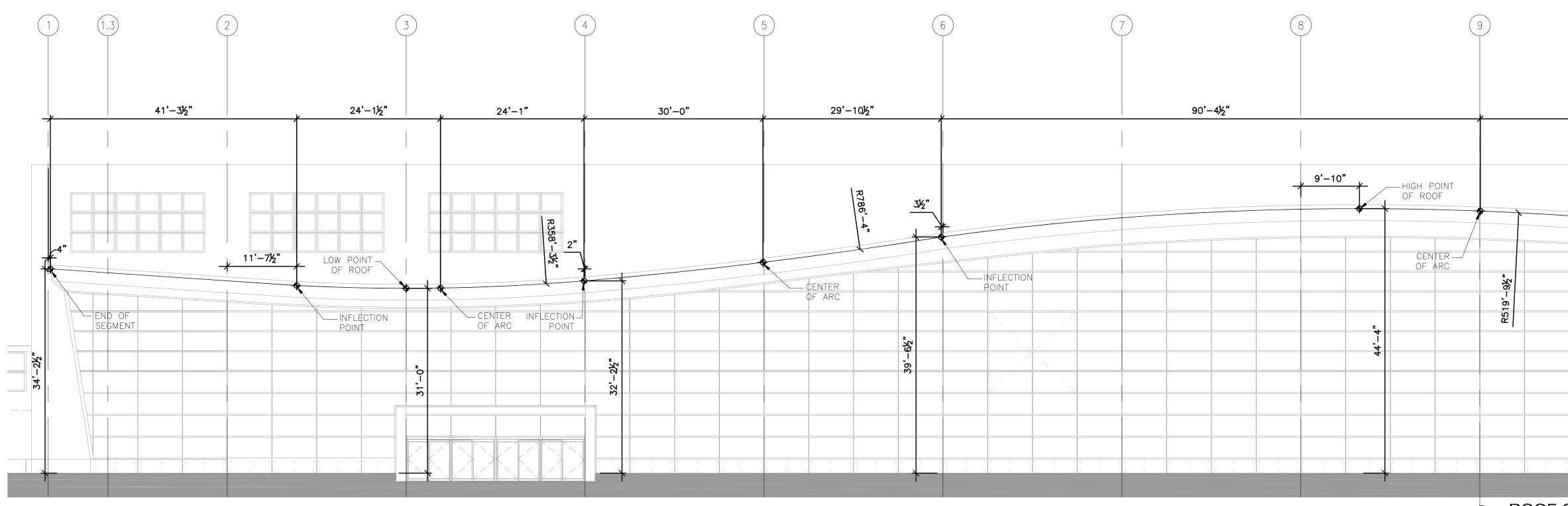


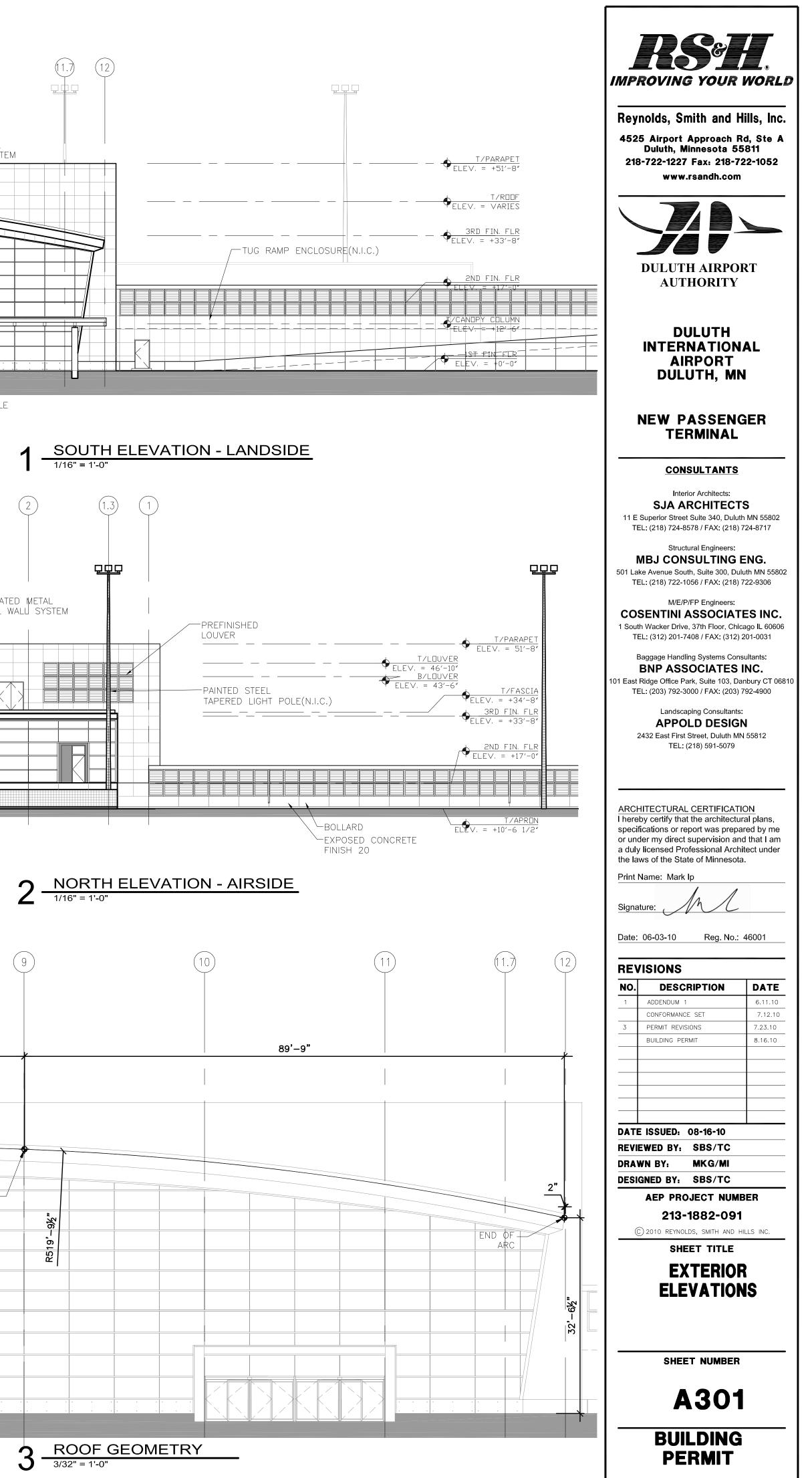
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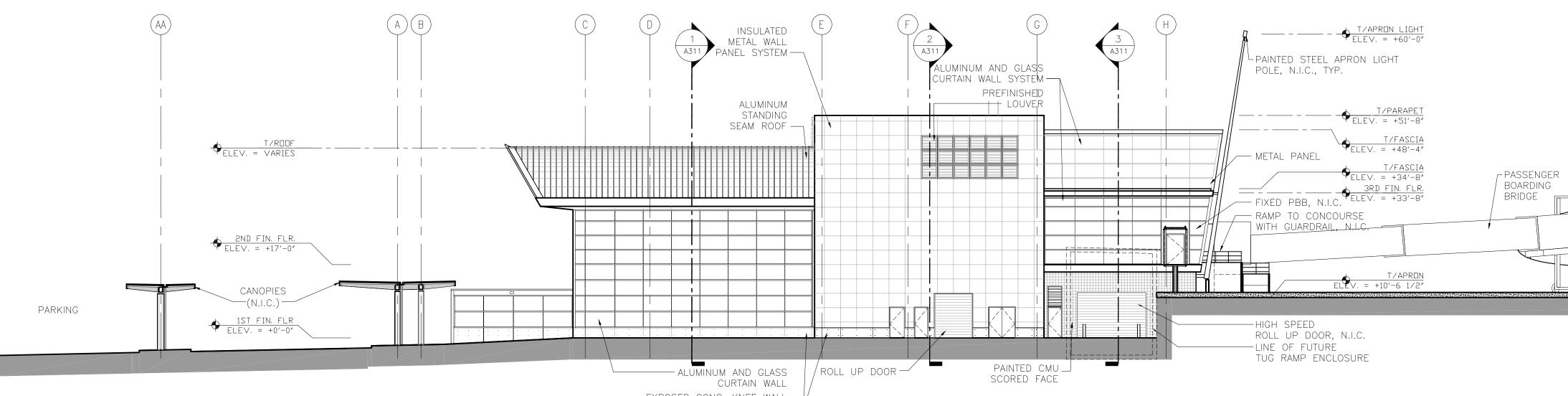




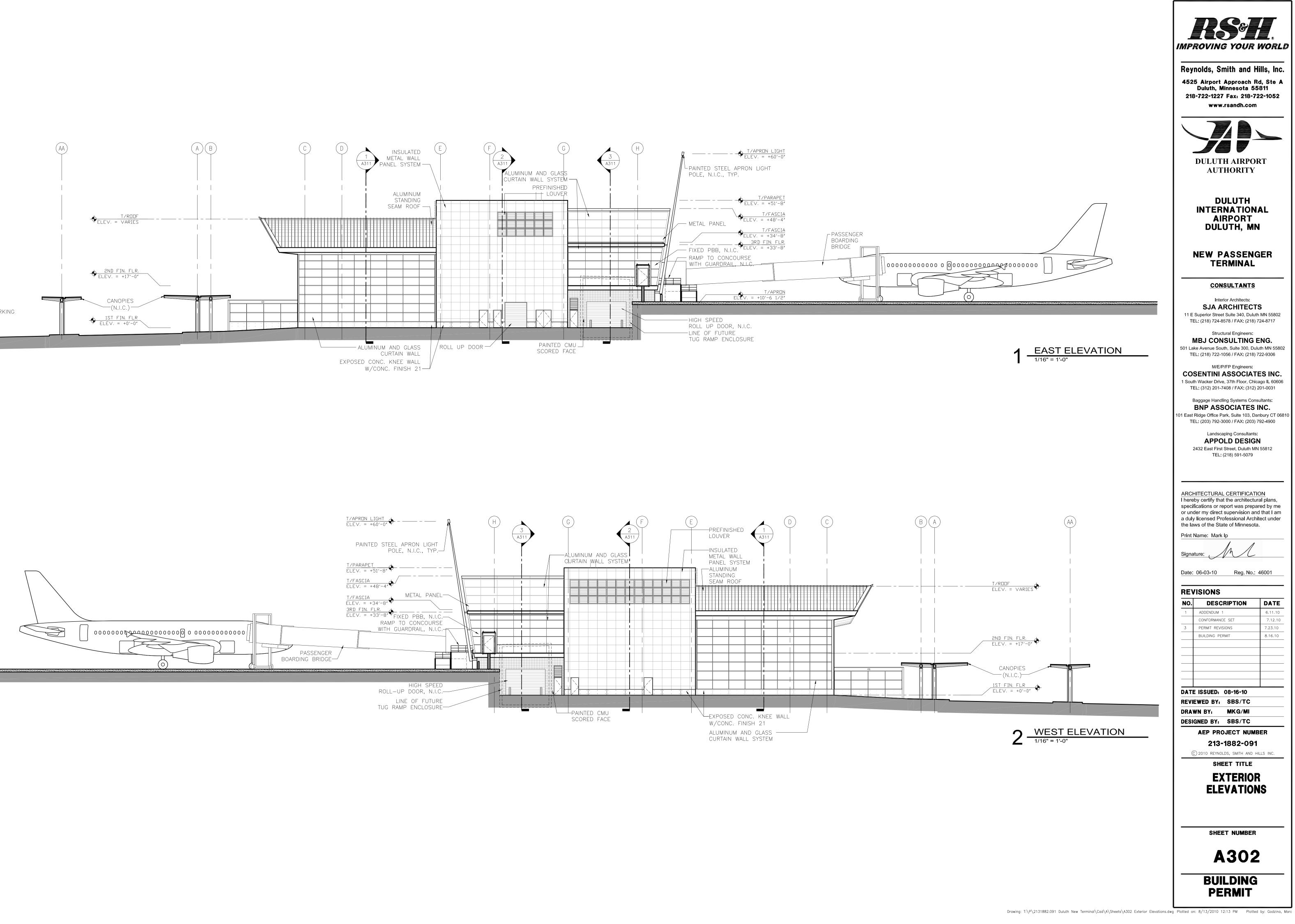




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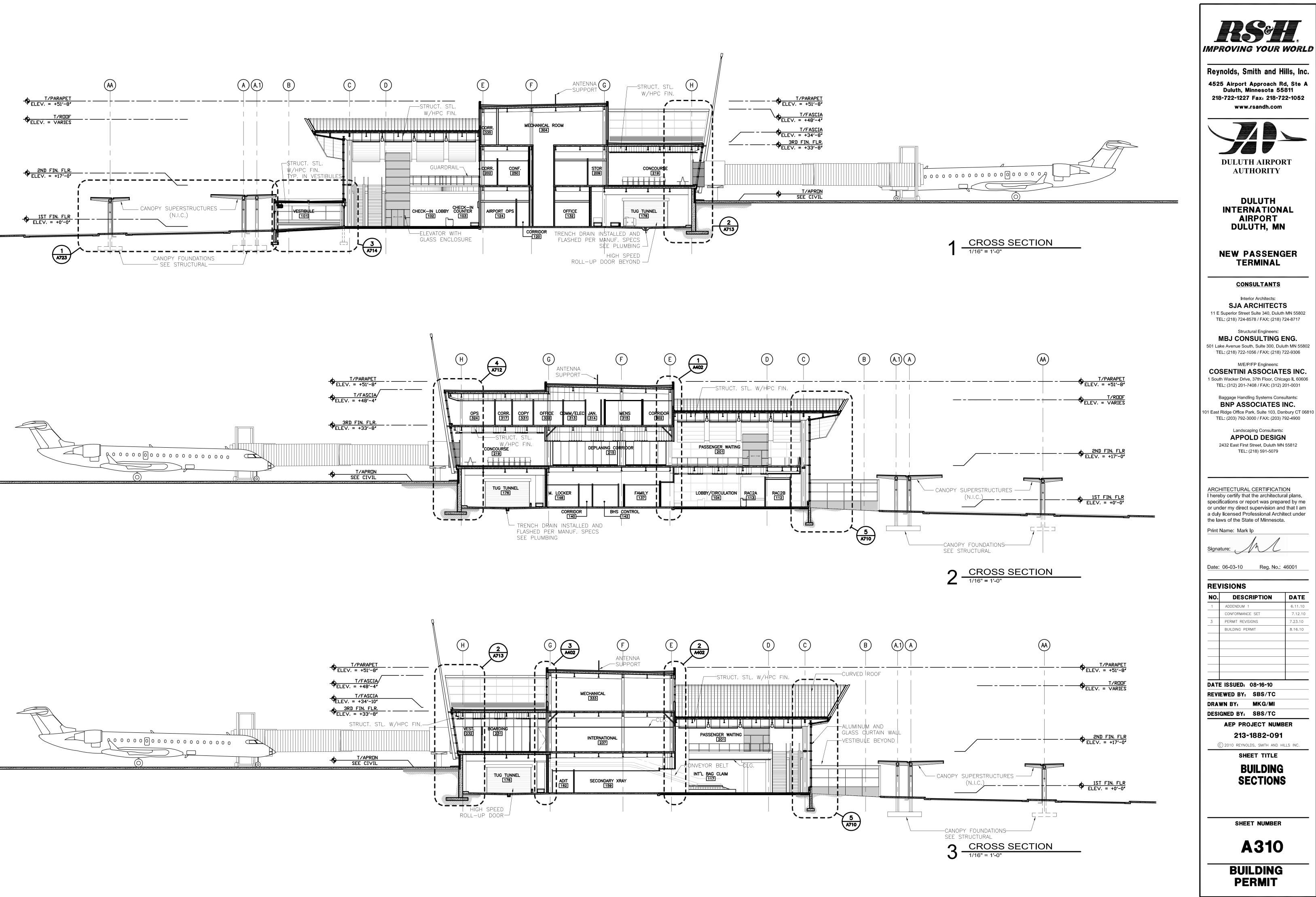




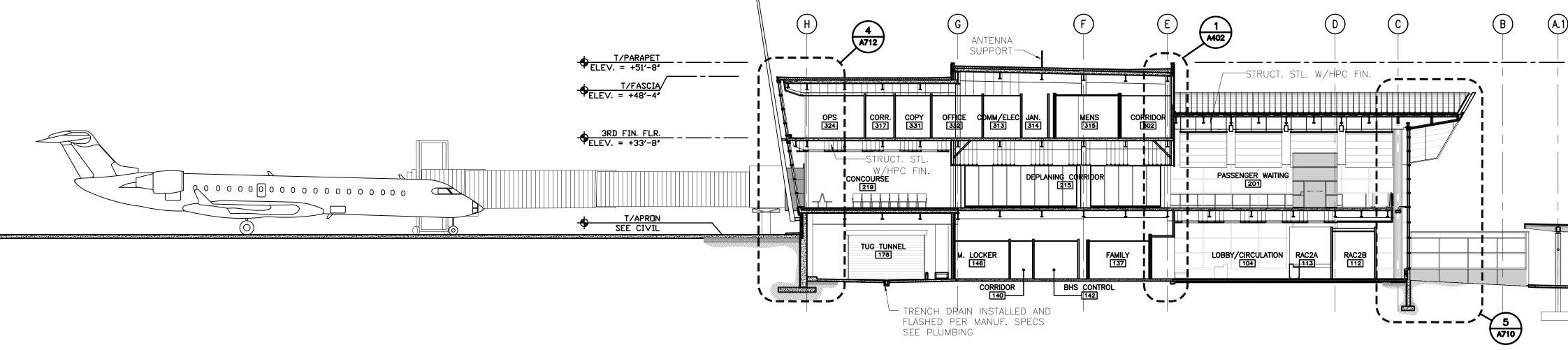


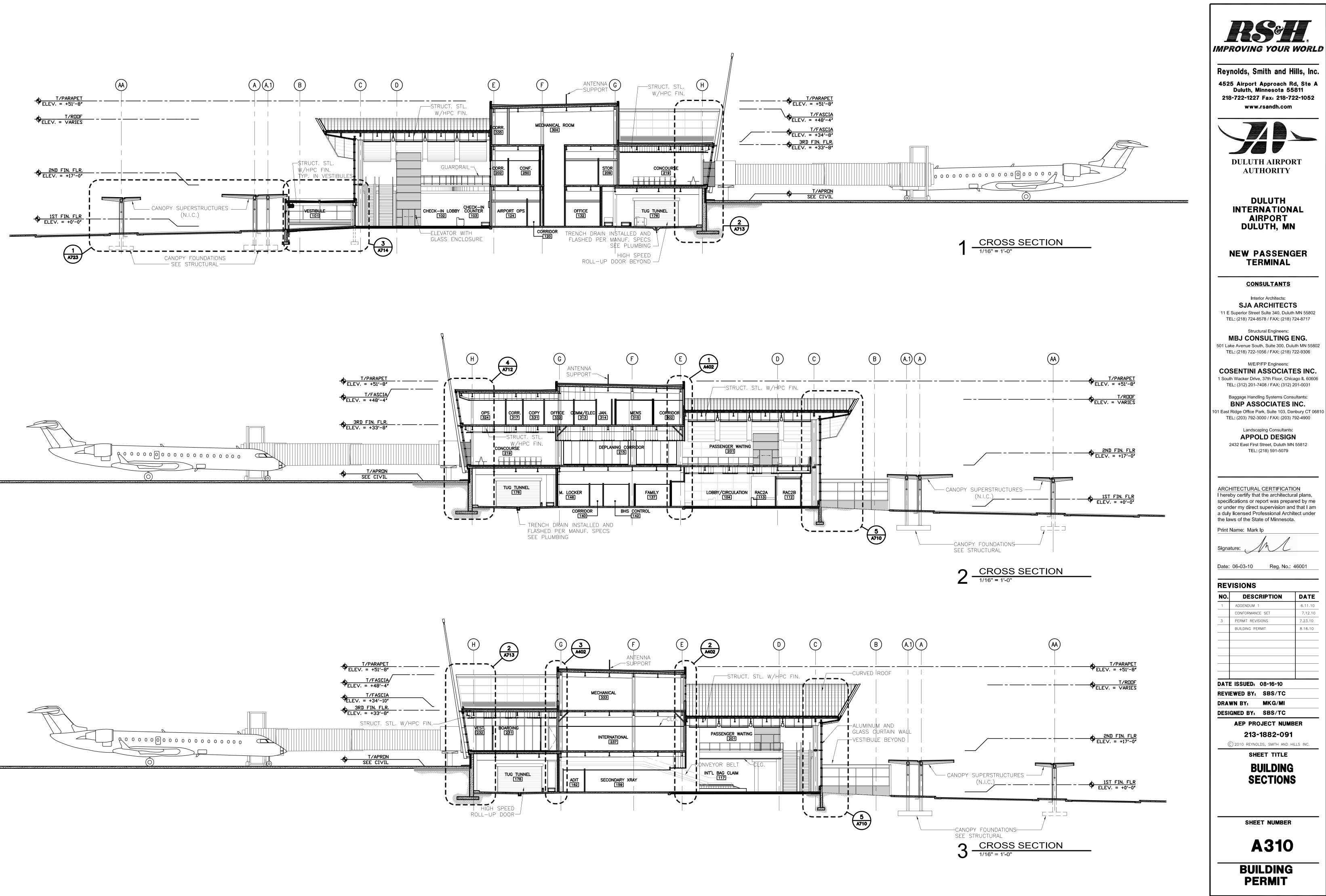


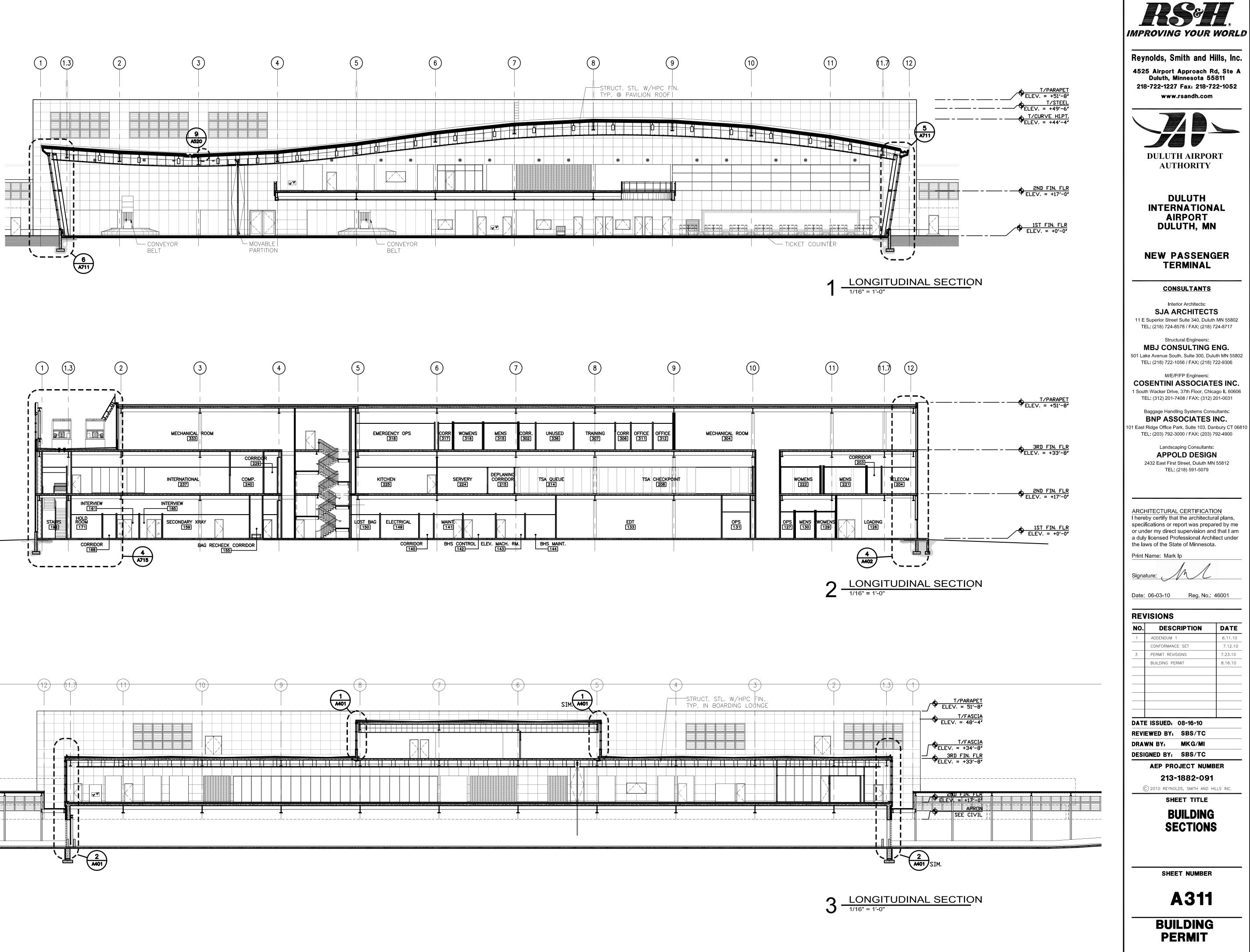
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Drawing: T:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A310 Building Sections.dwg Plotted on: 8/13/2010 12:15 PM Plotted by: Godzina, Marc







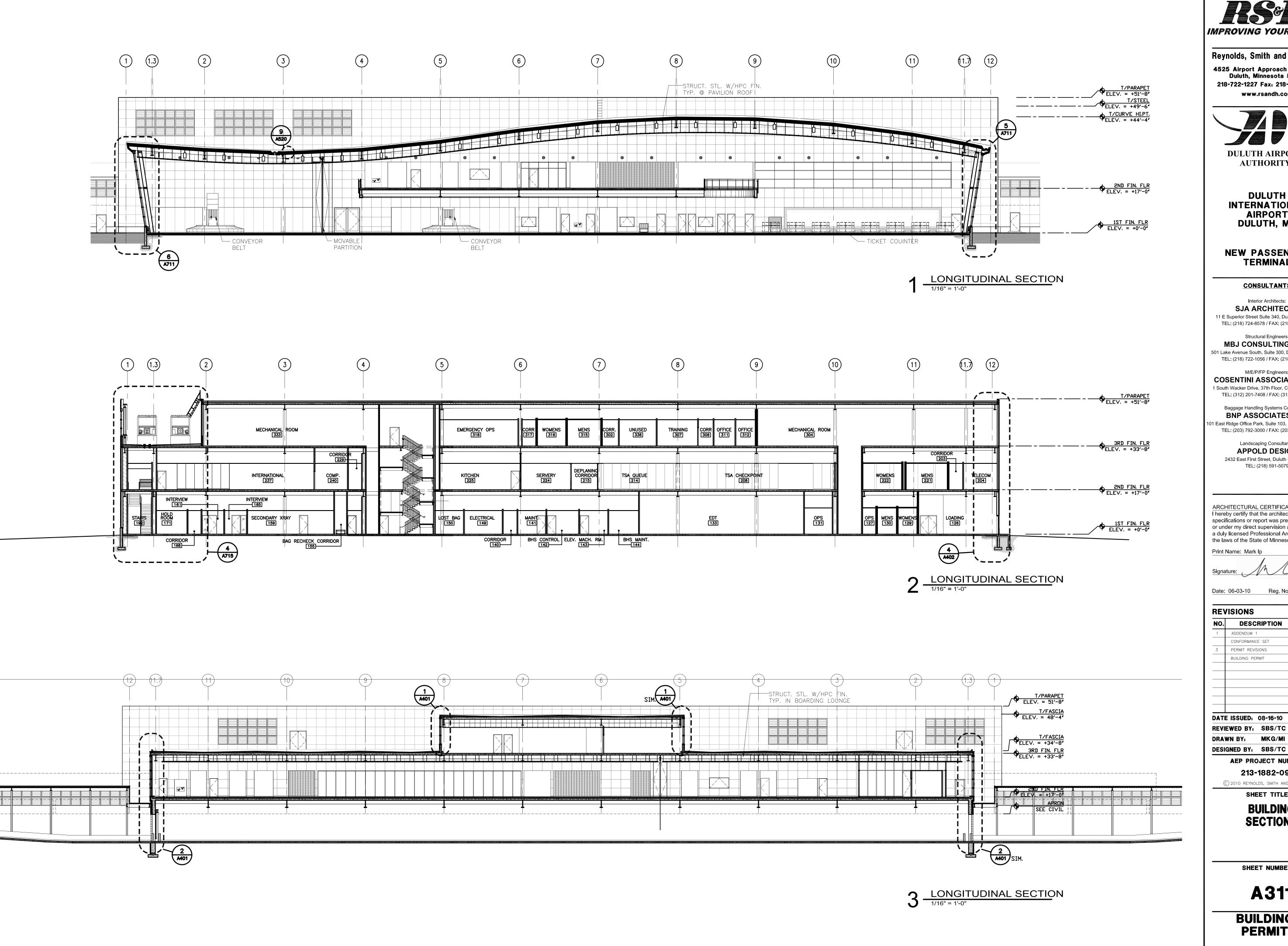
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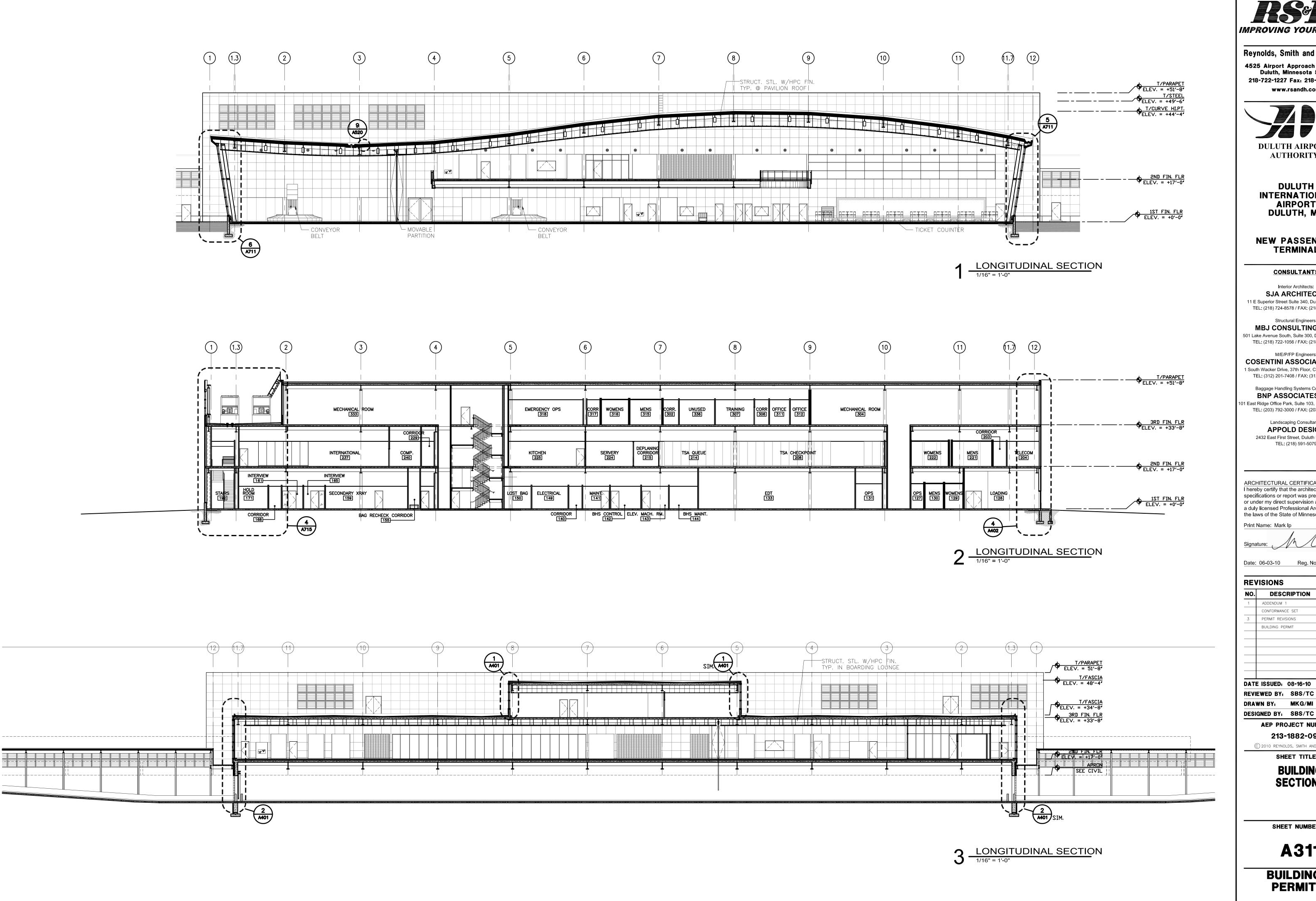
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7.23.10

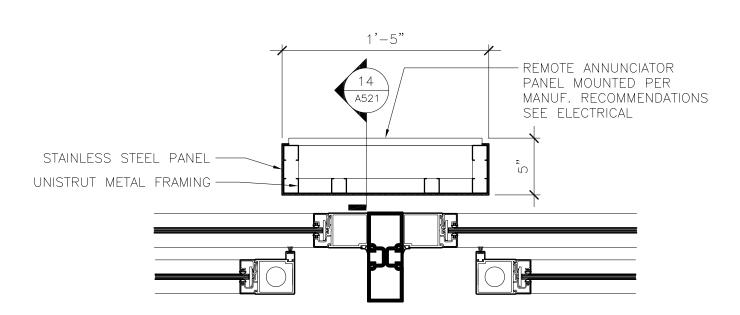
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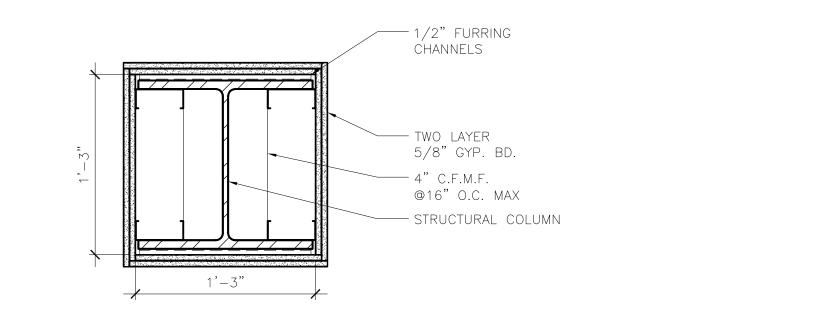


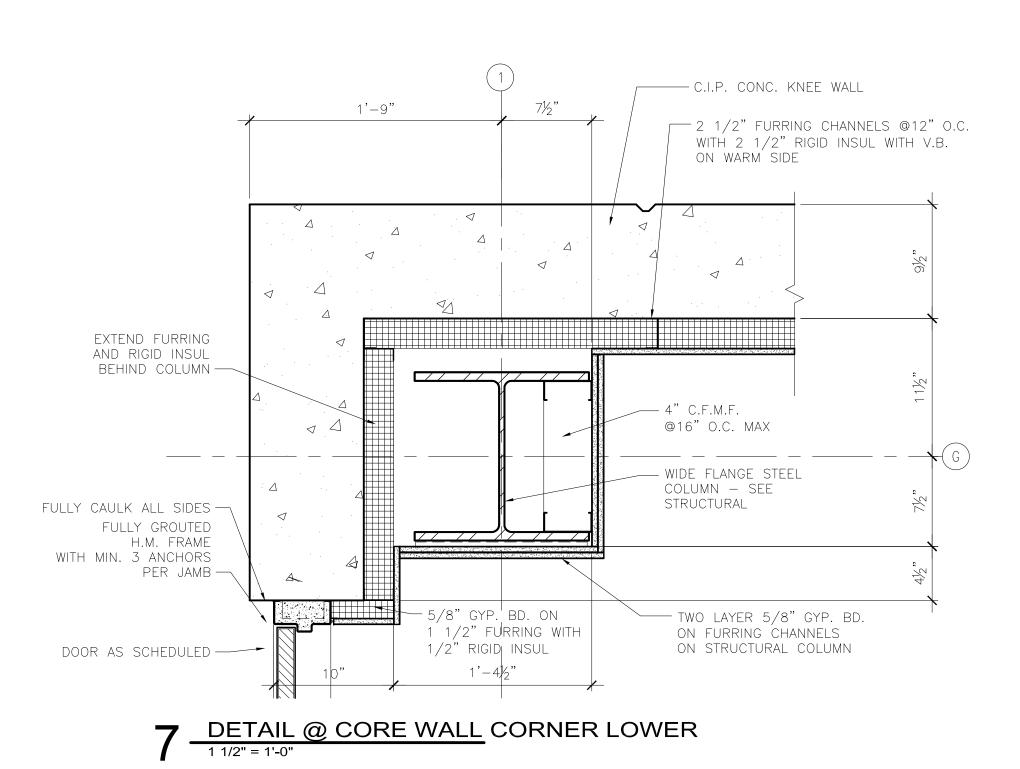


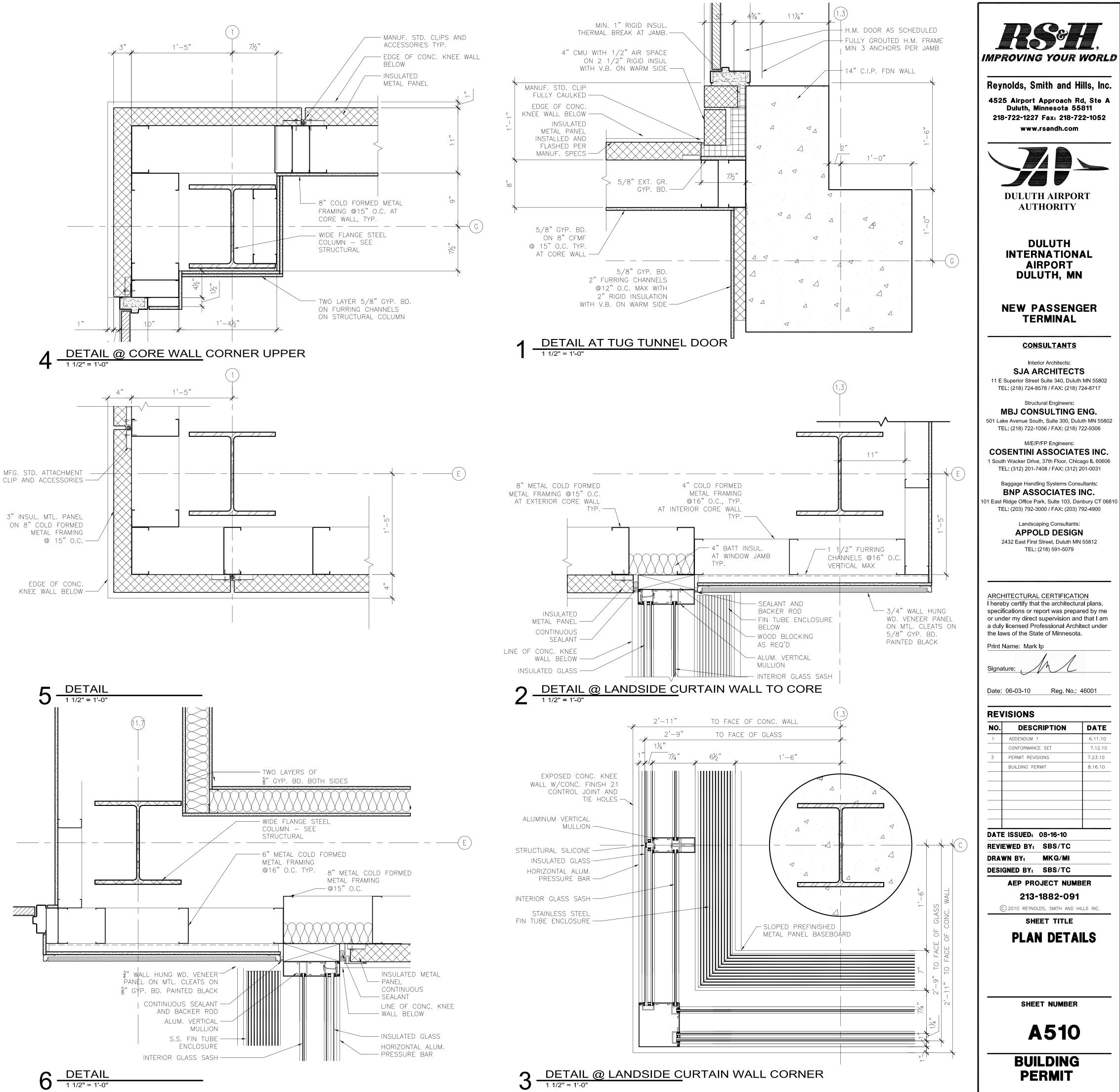






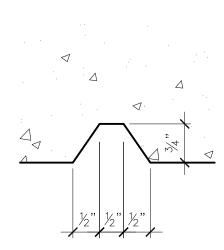


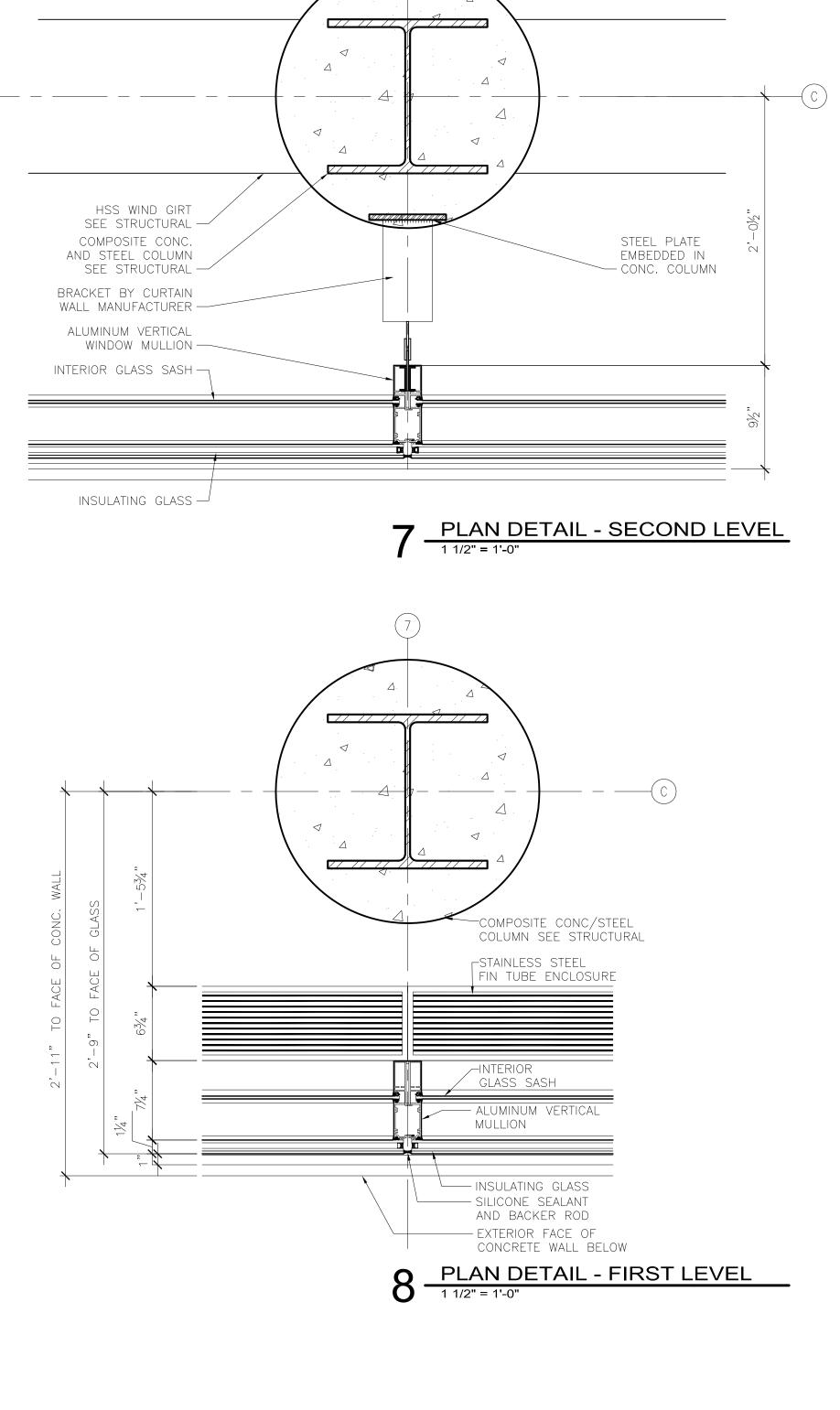




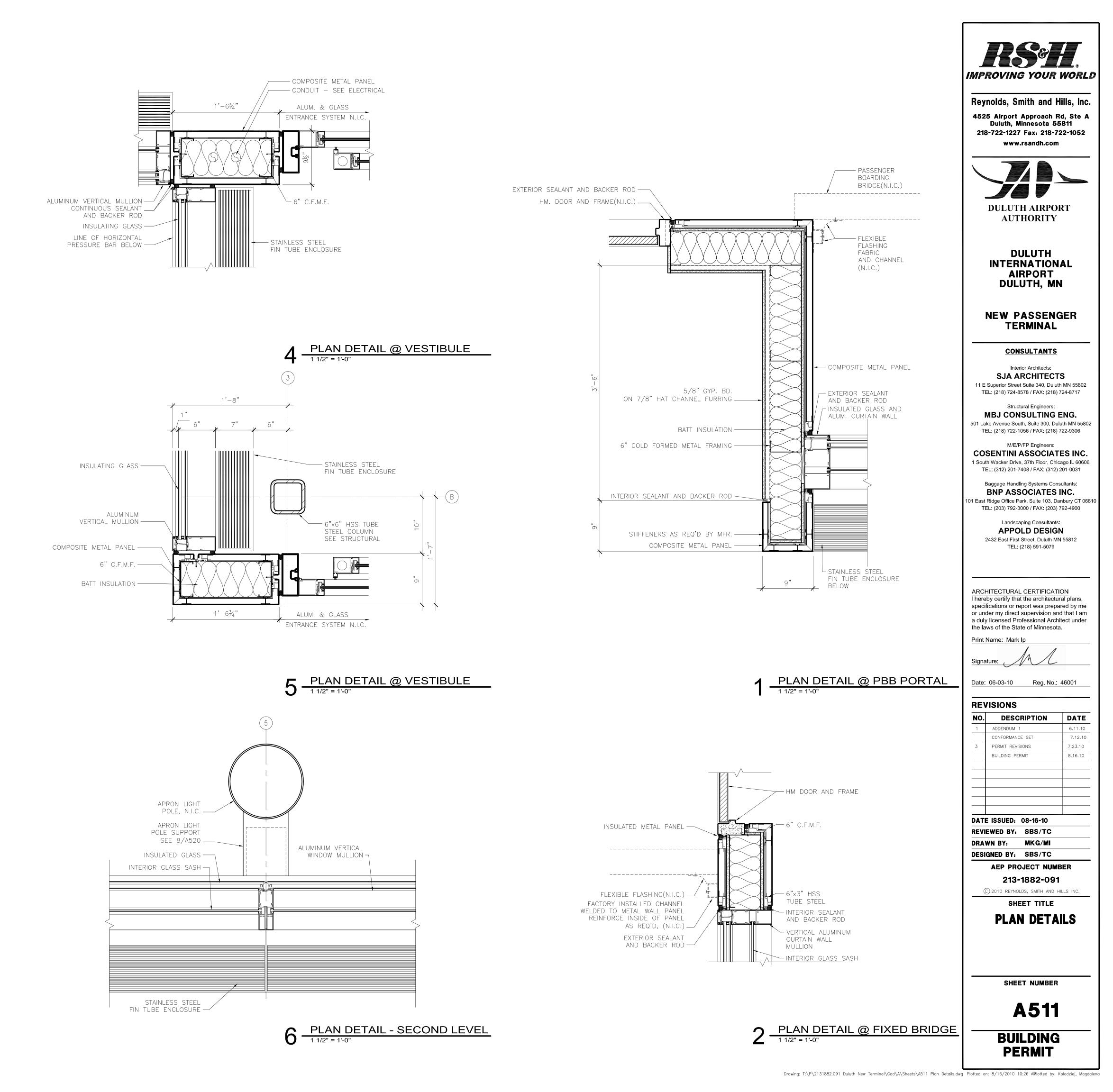
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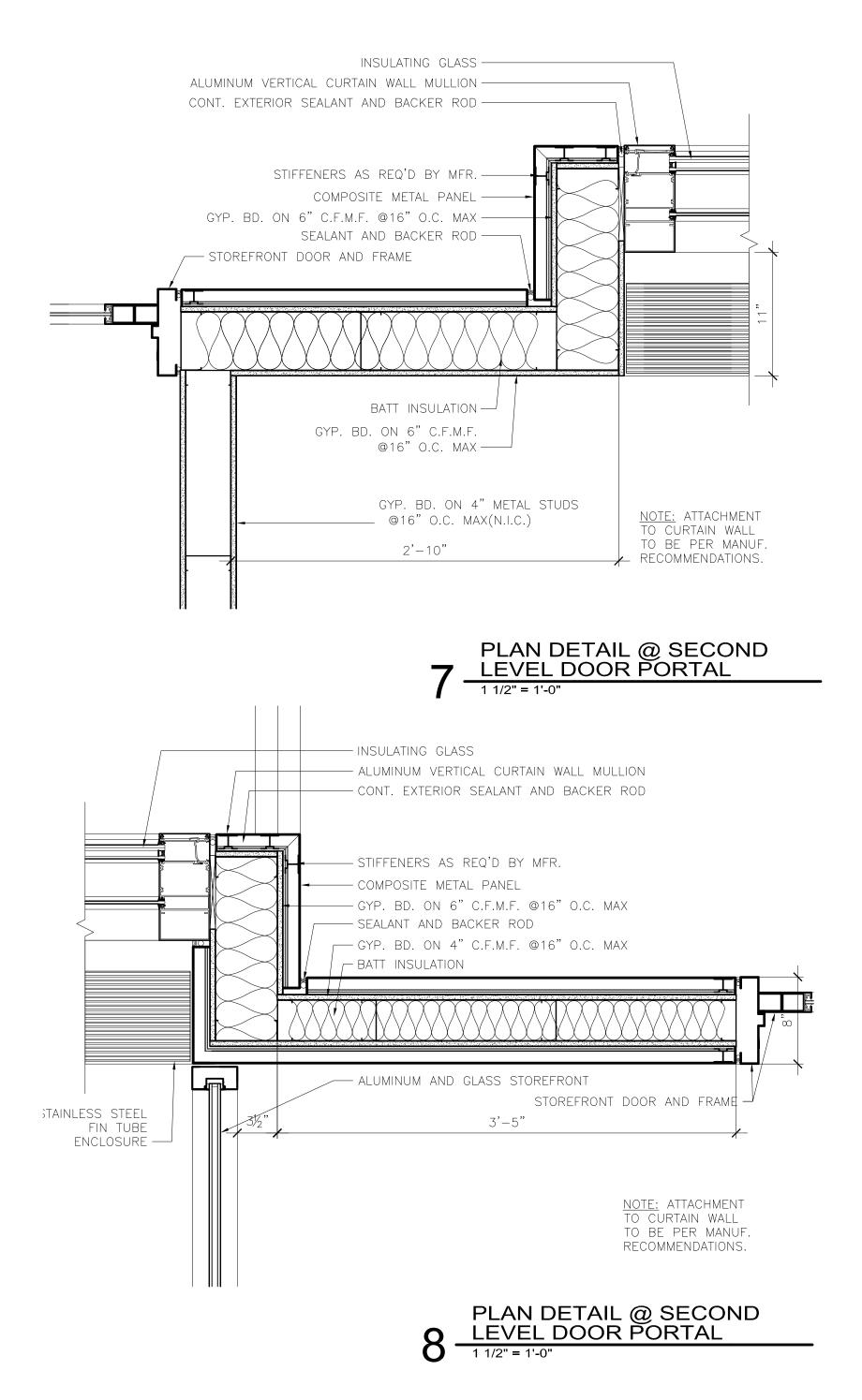


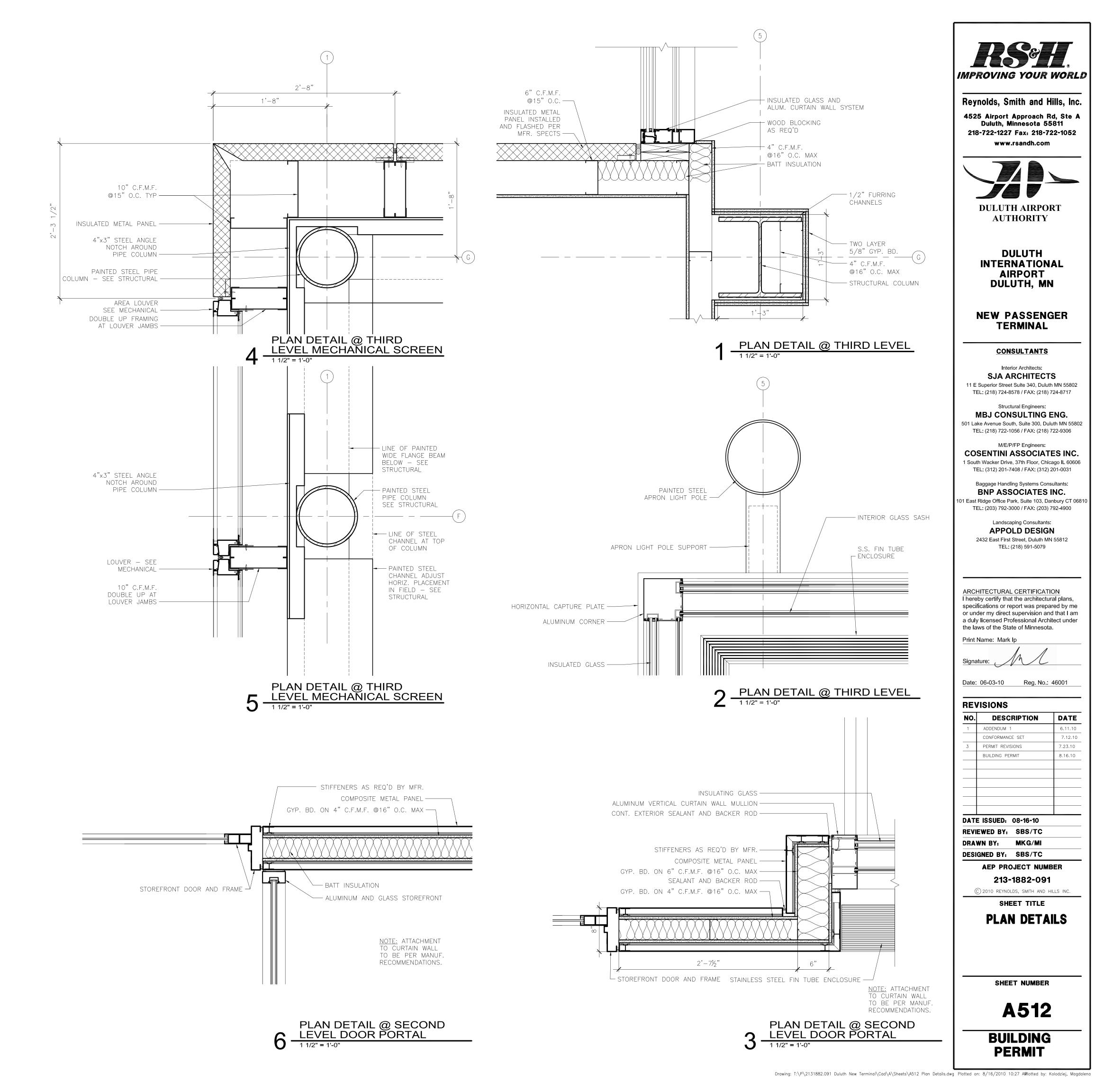


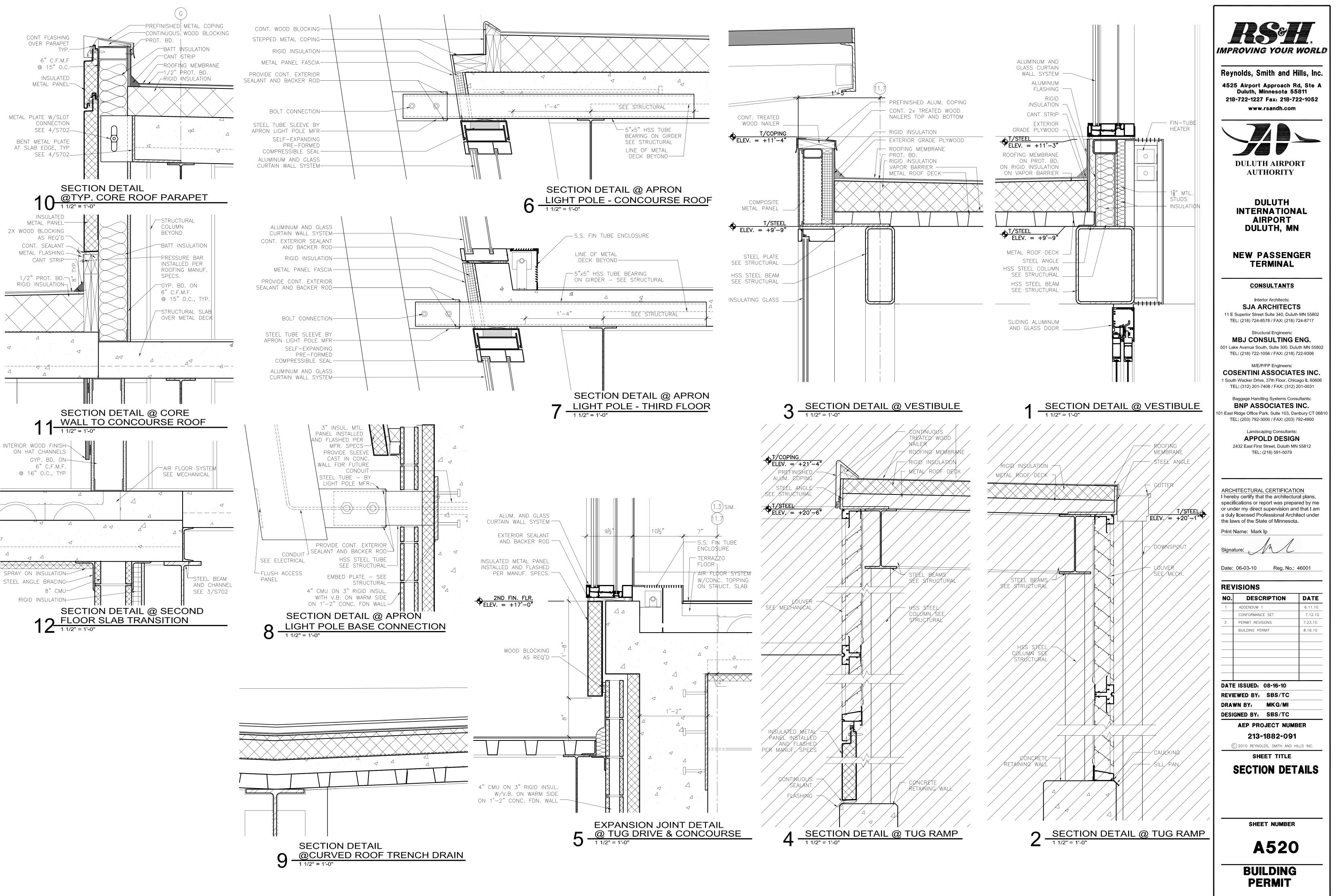


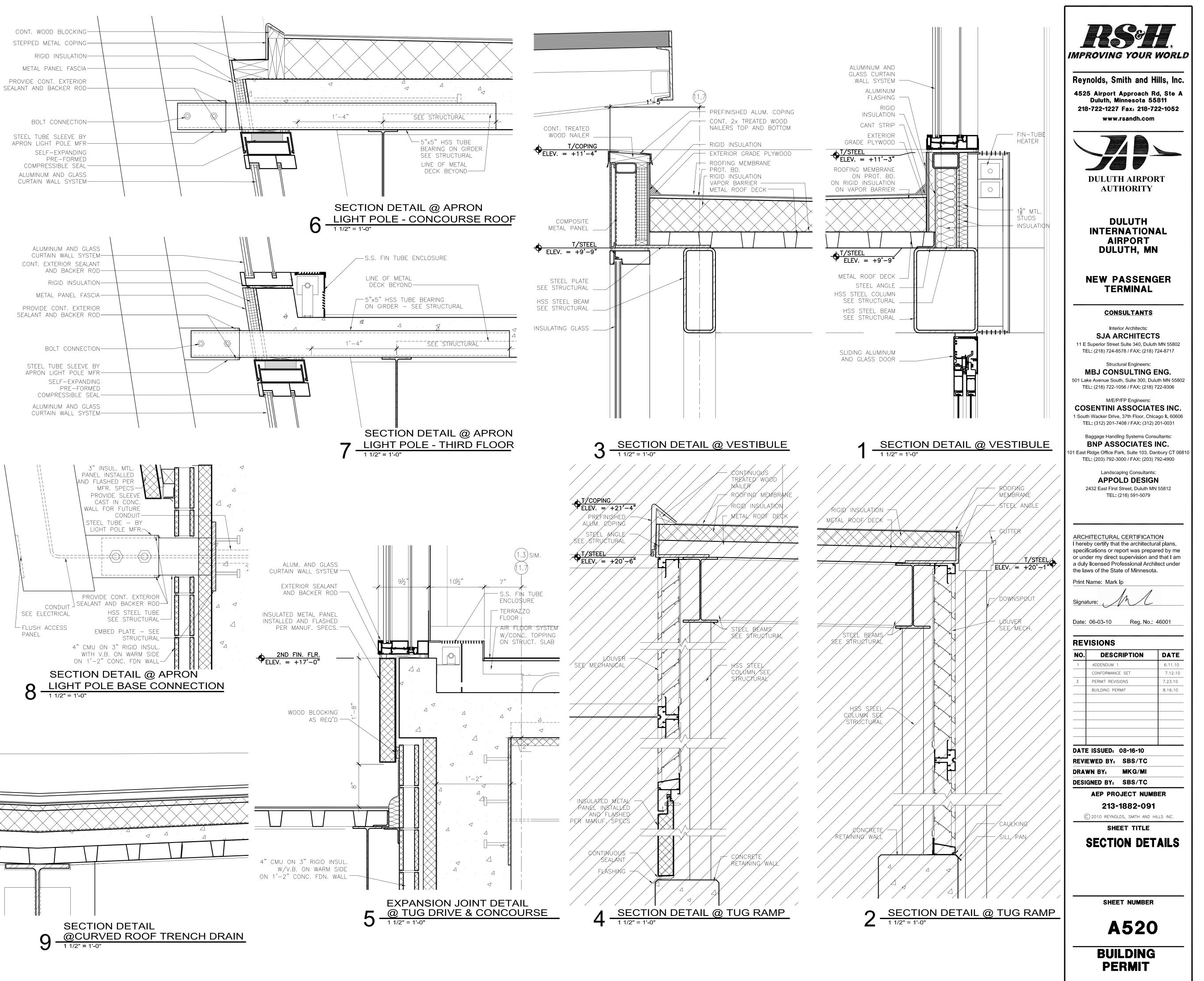
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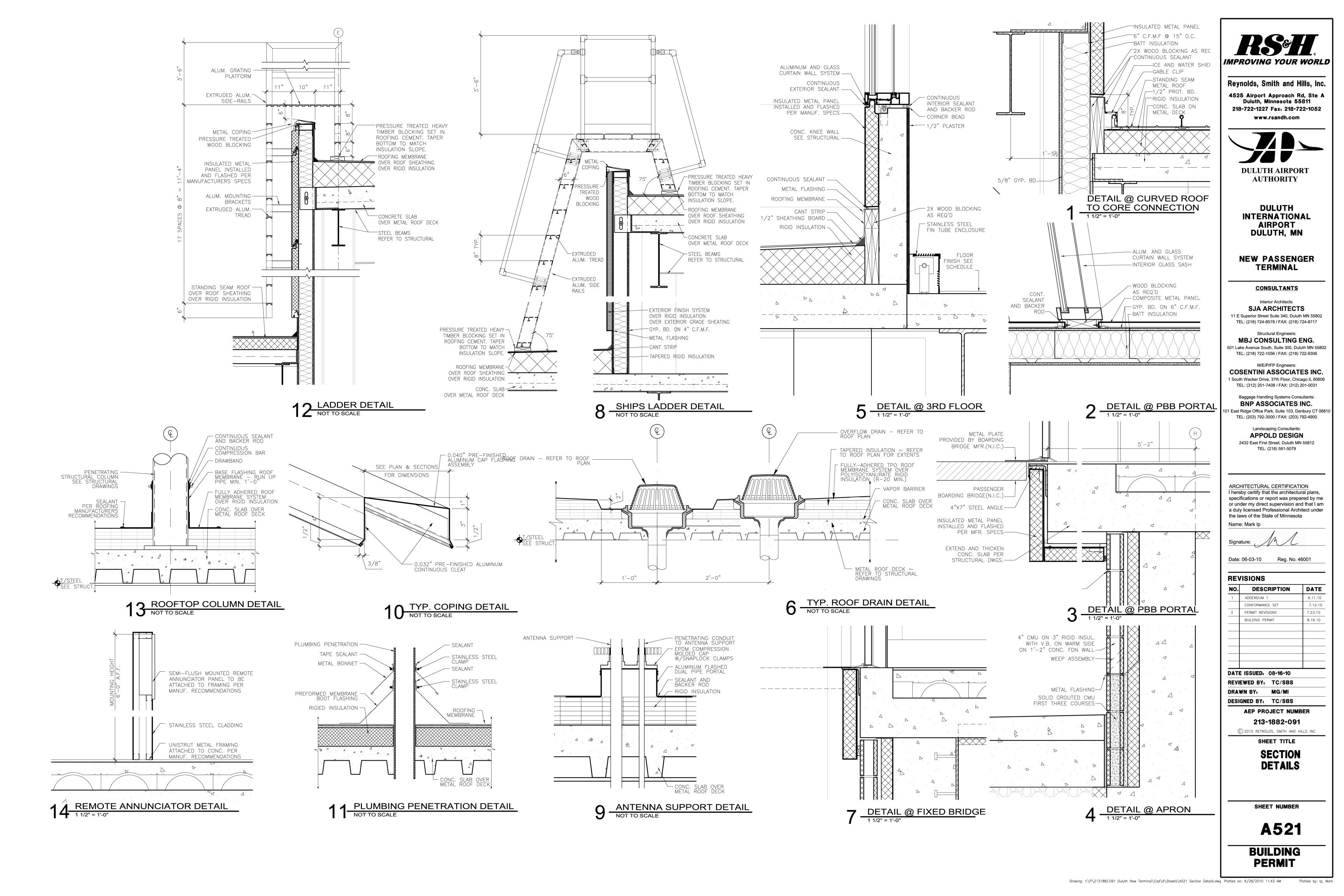


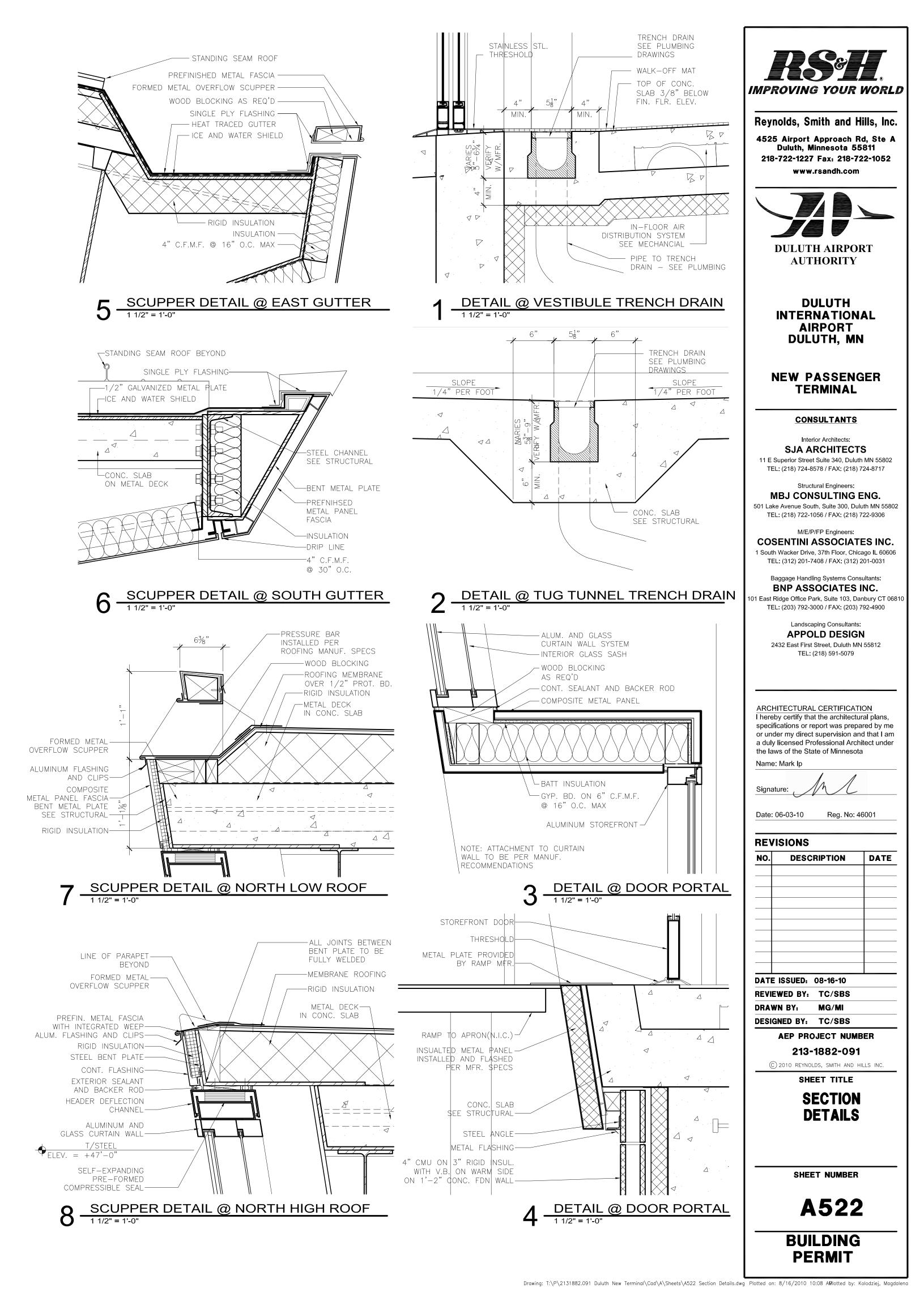


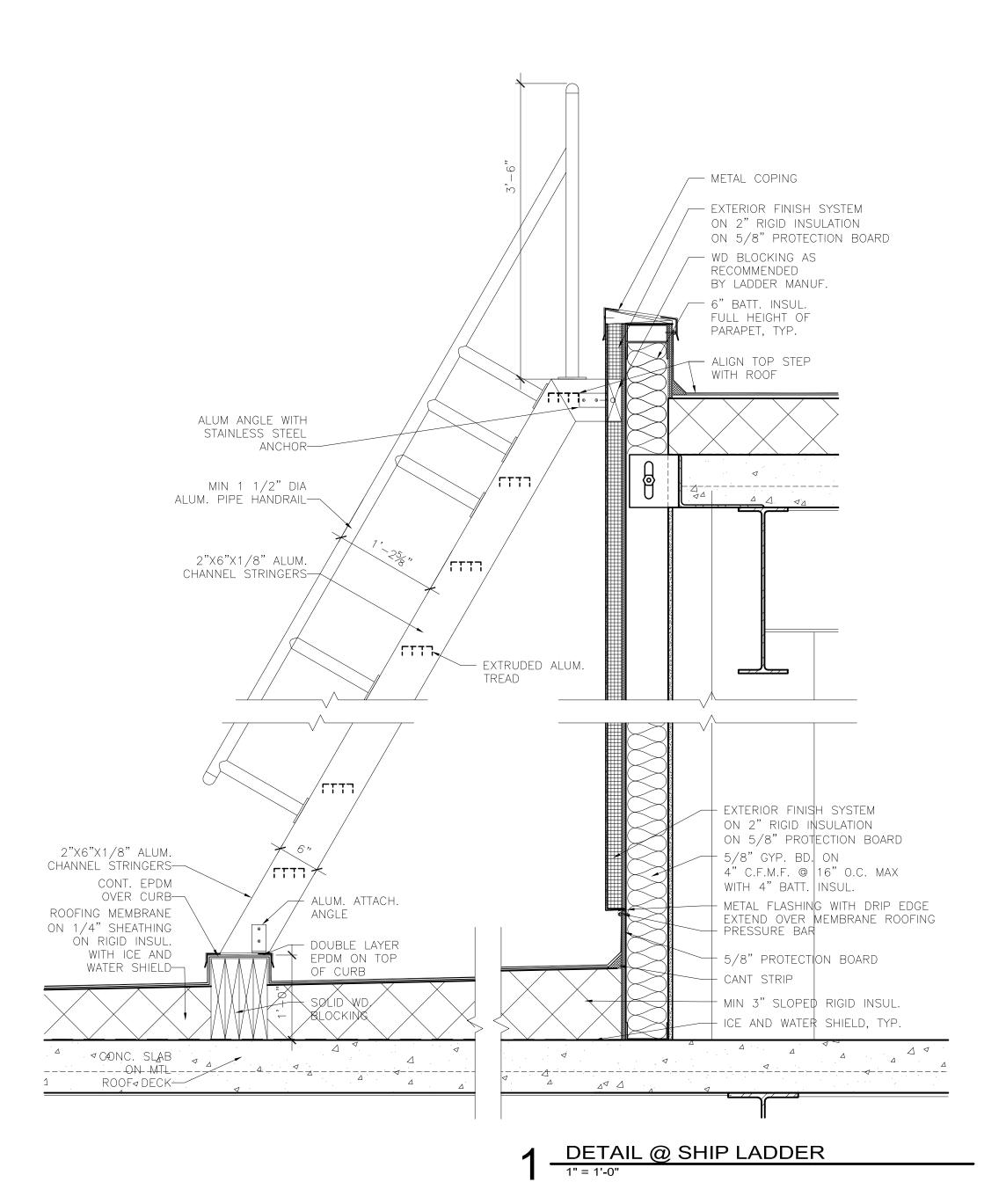


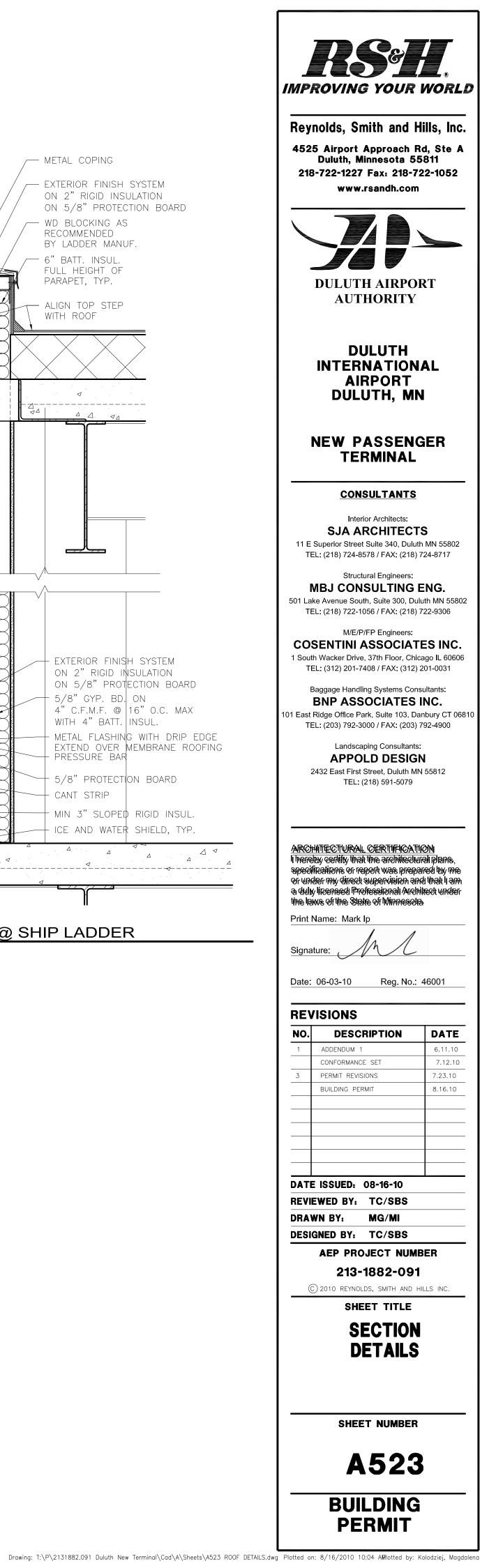


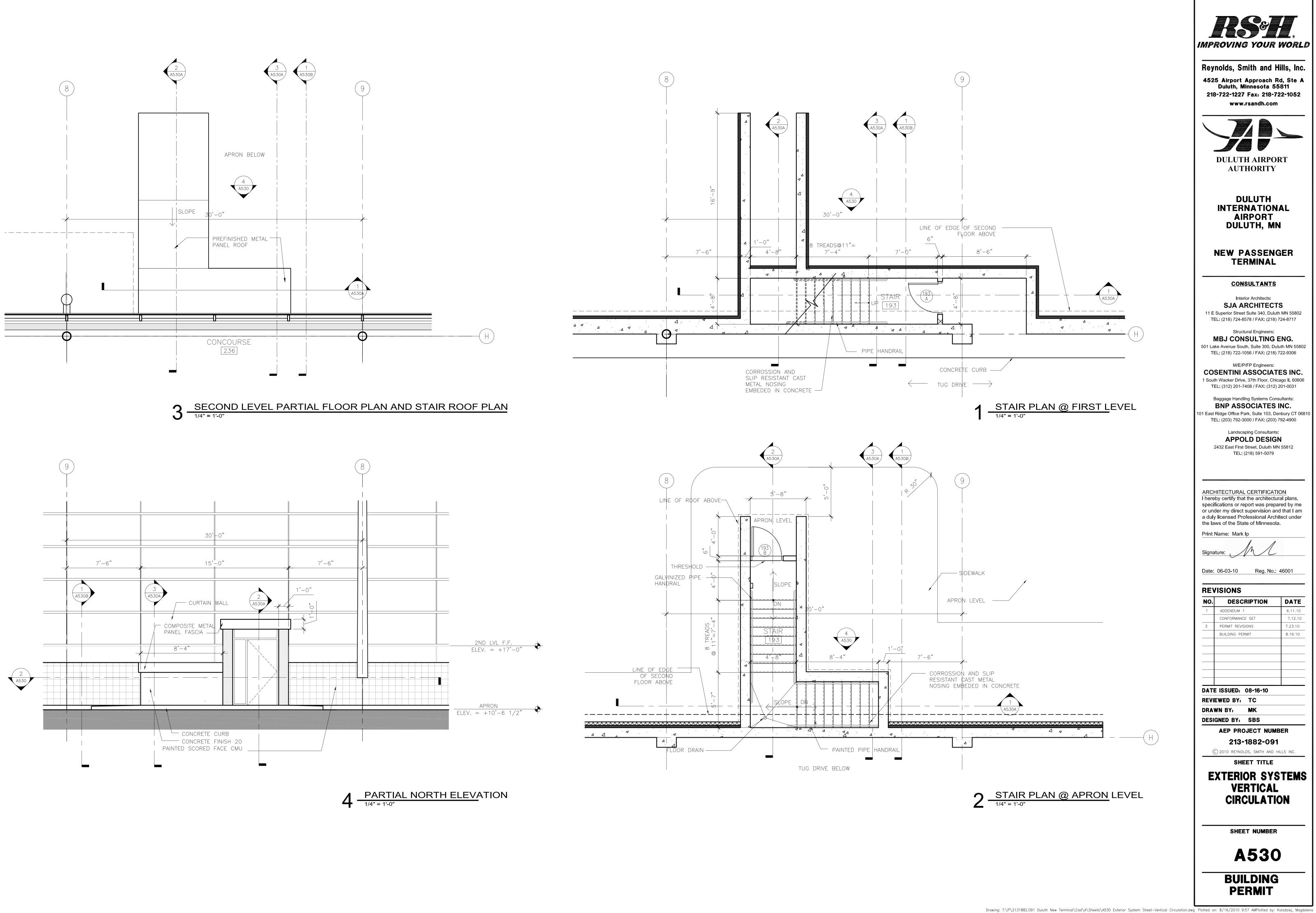
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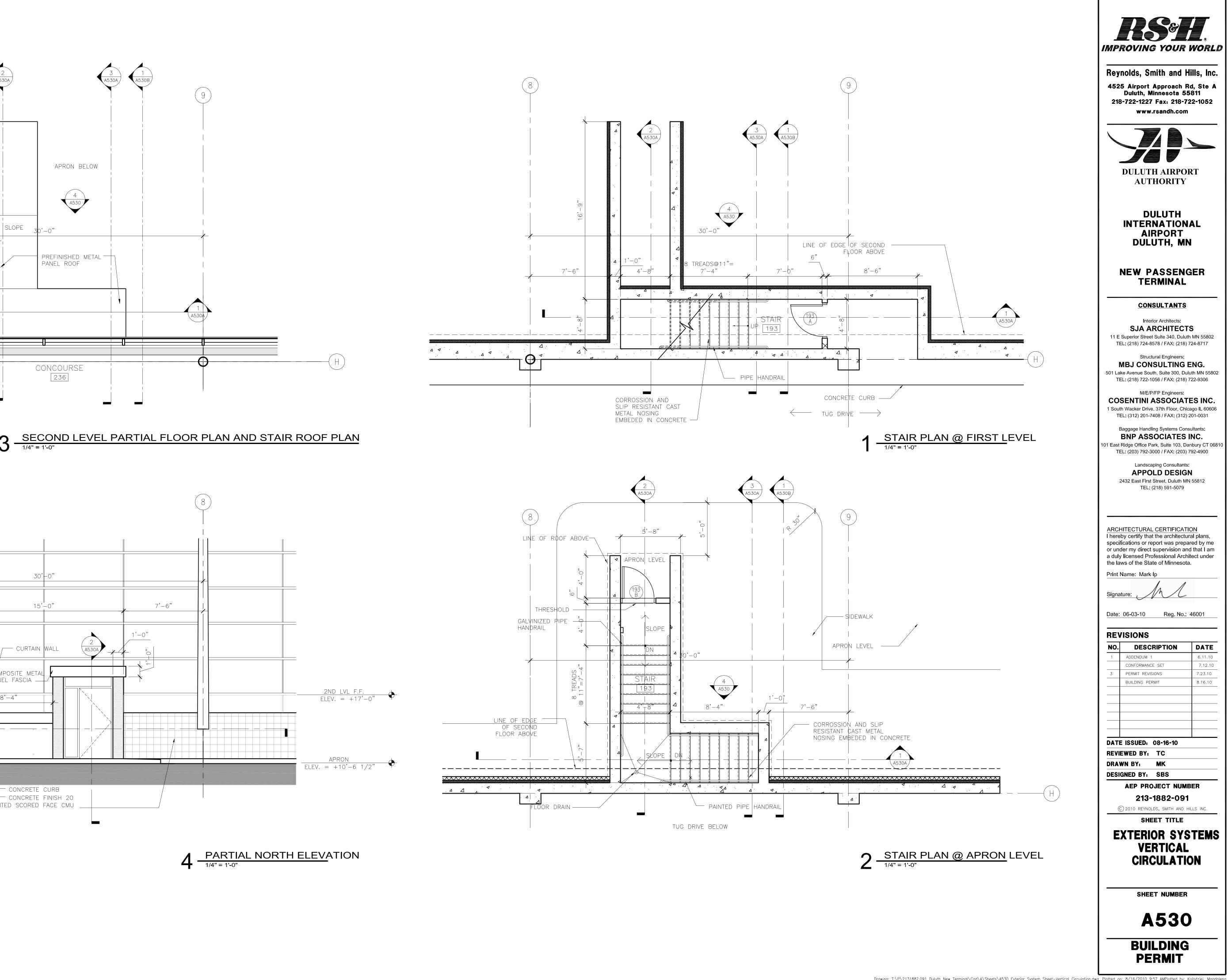


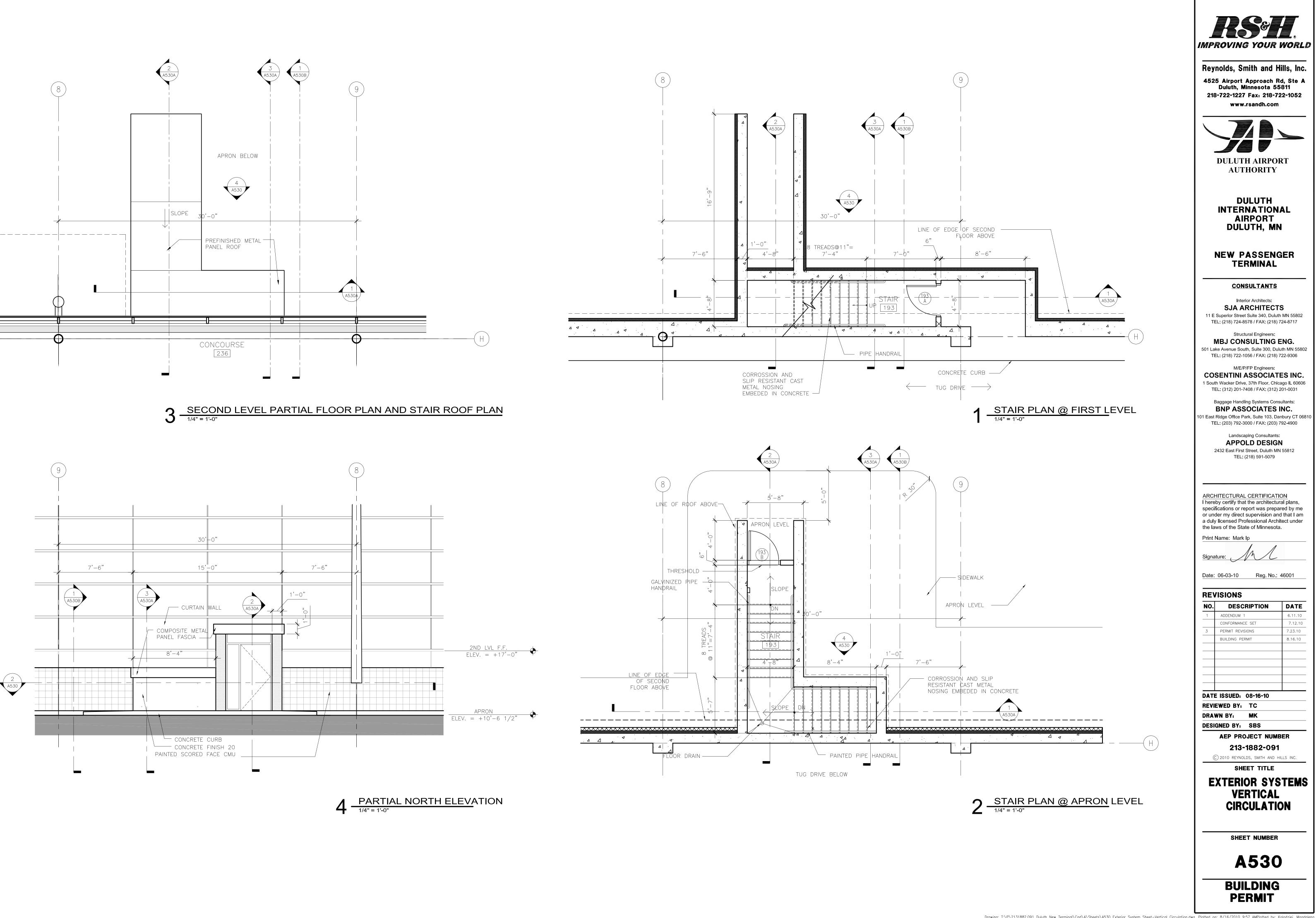


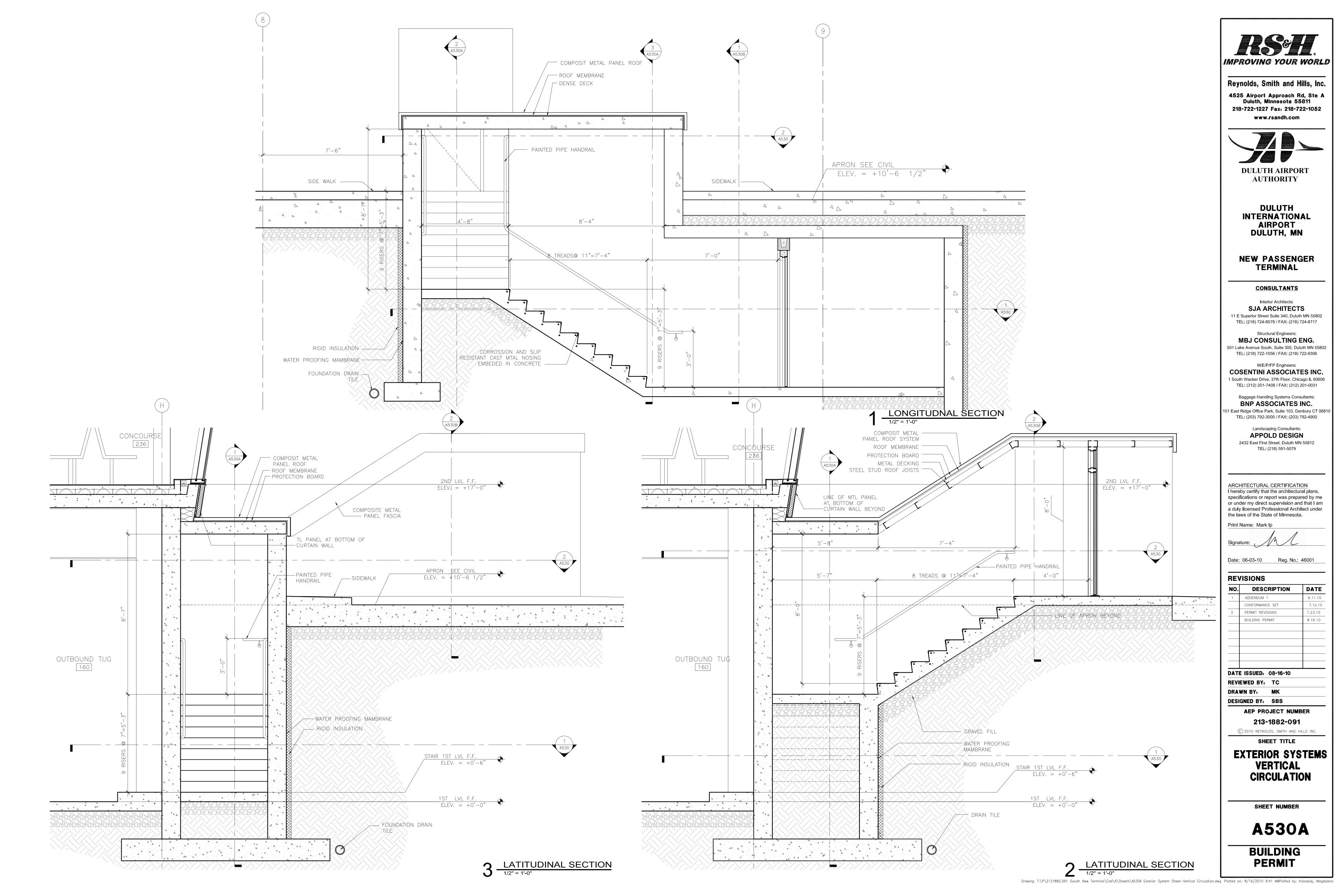


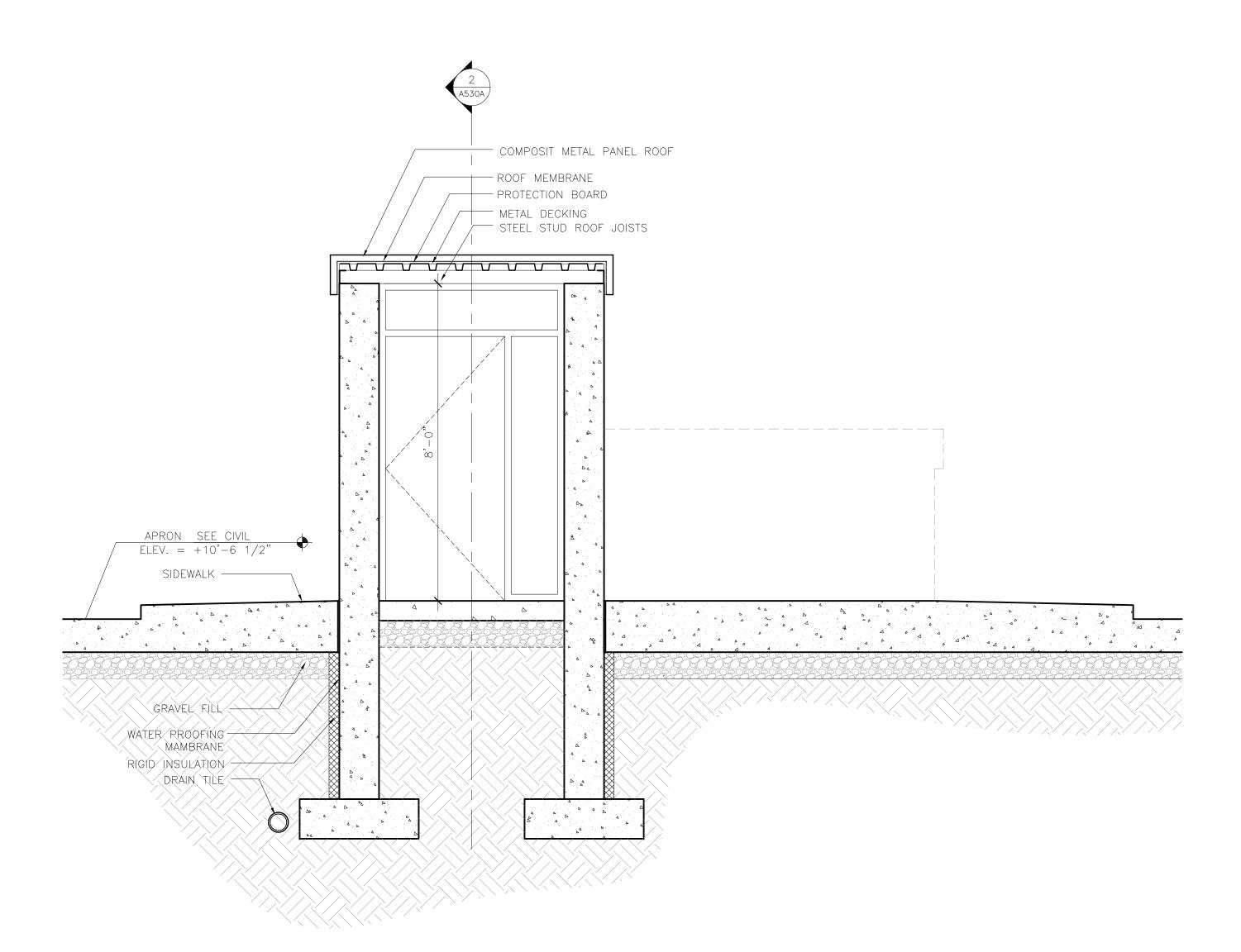


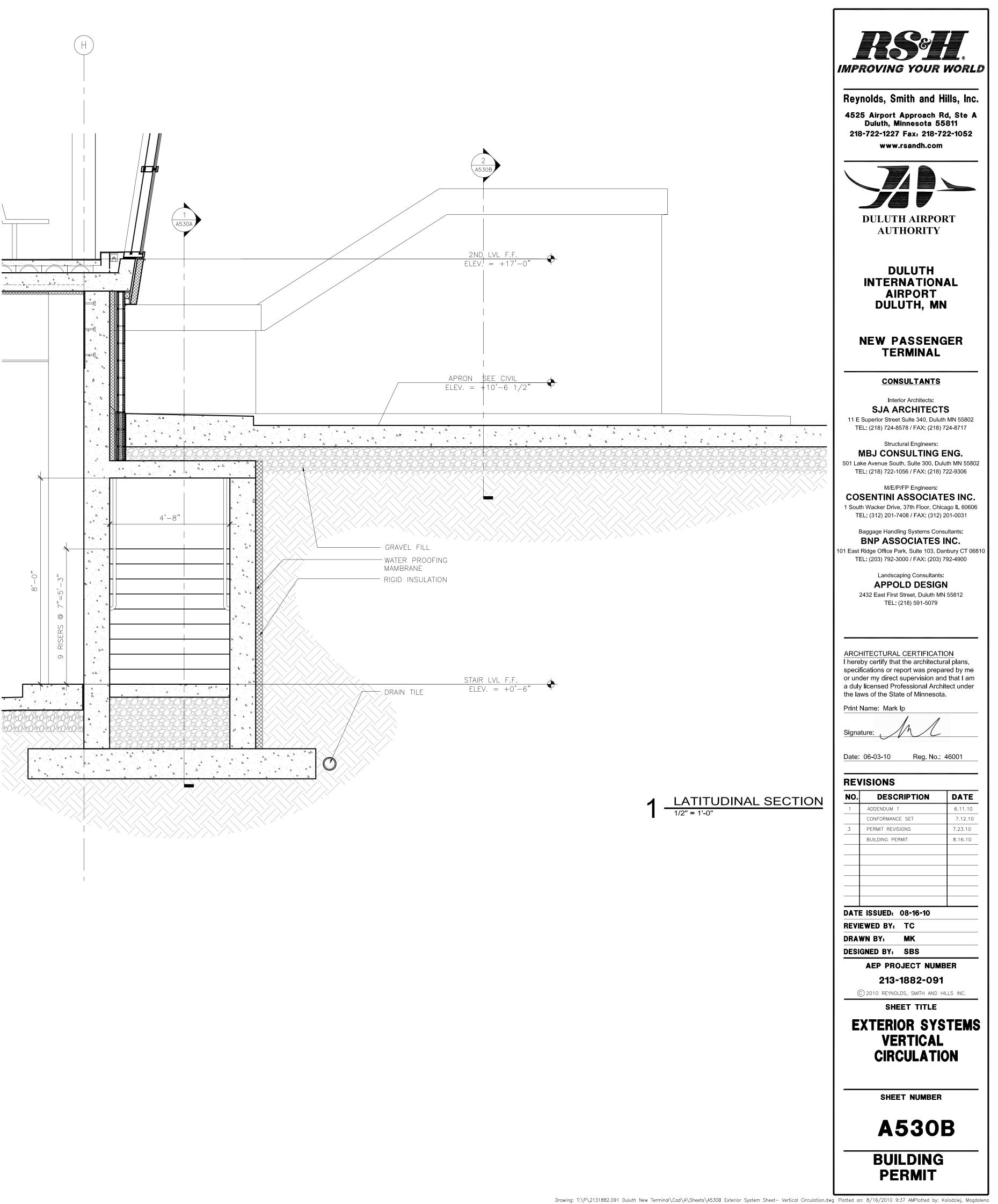




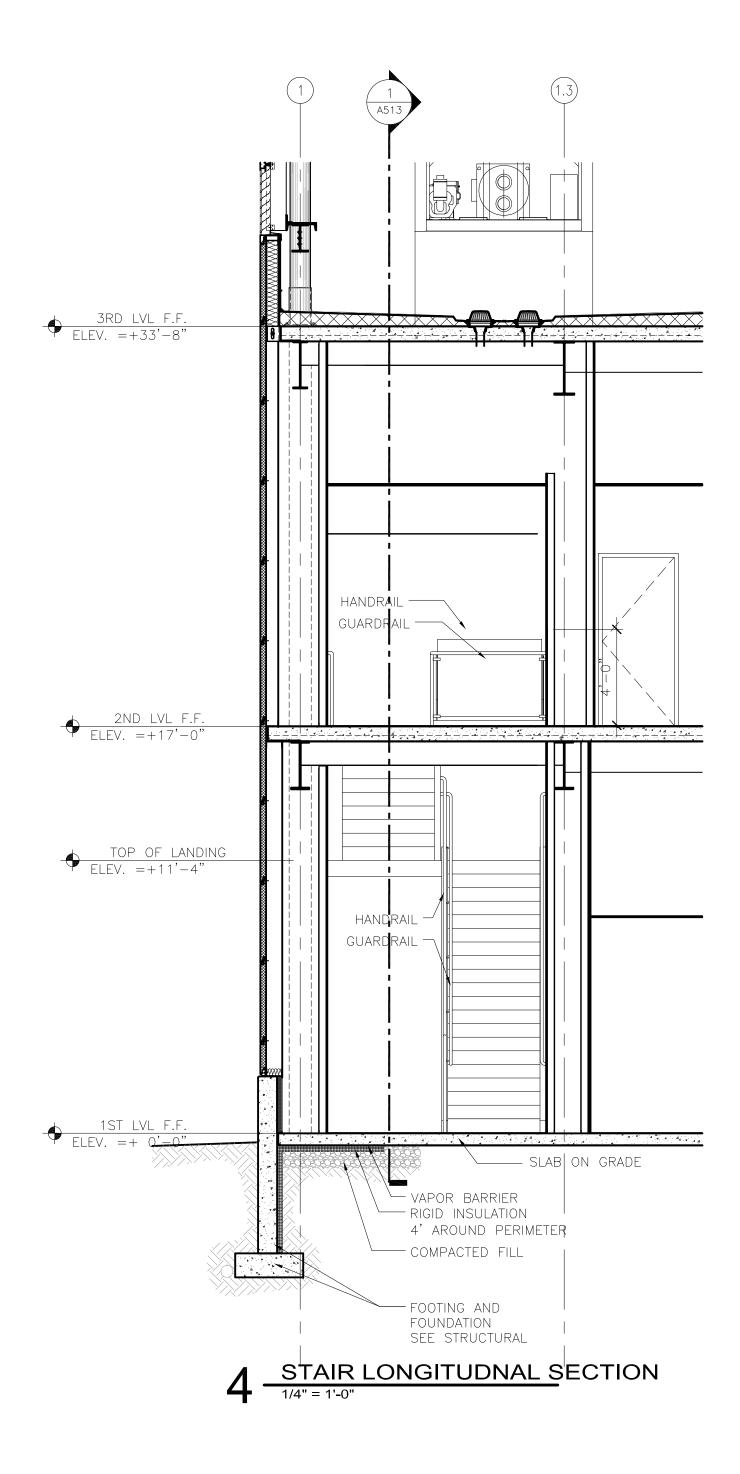


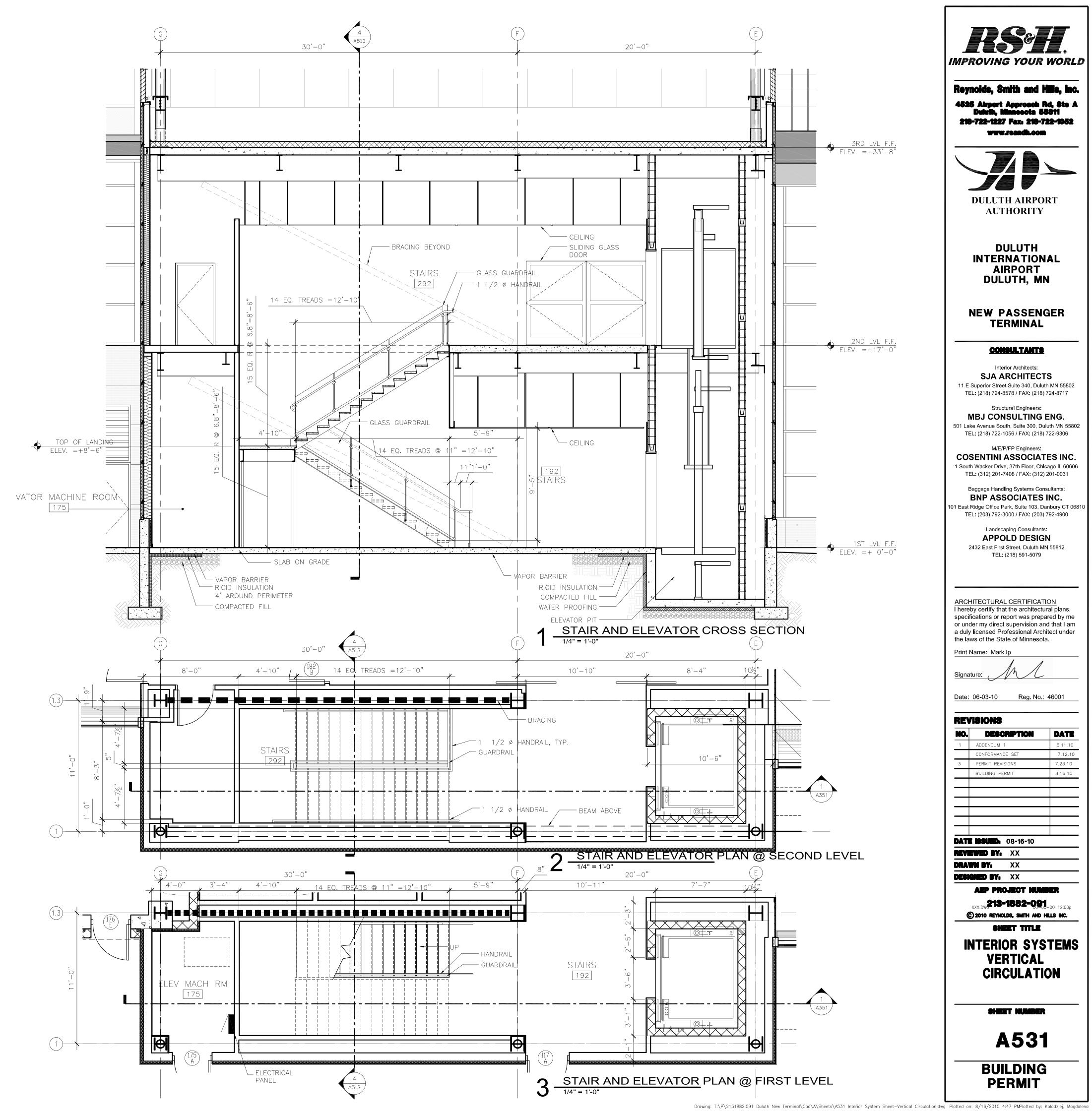






## 2 LONGITUDNAL SECTION



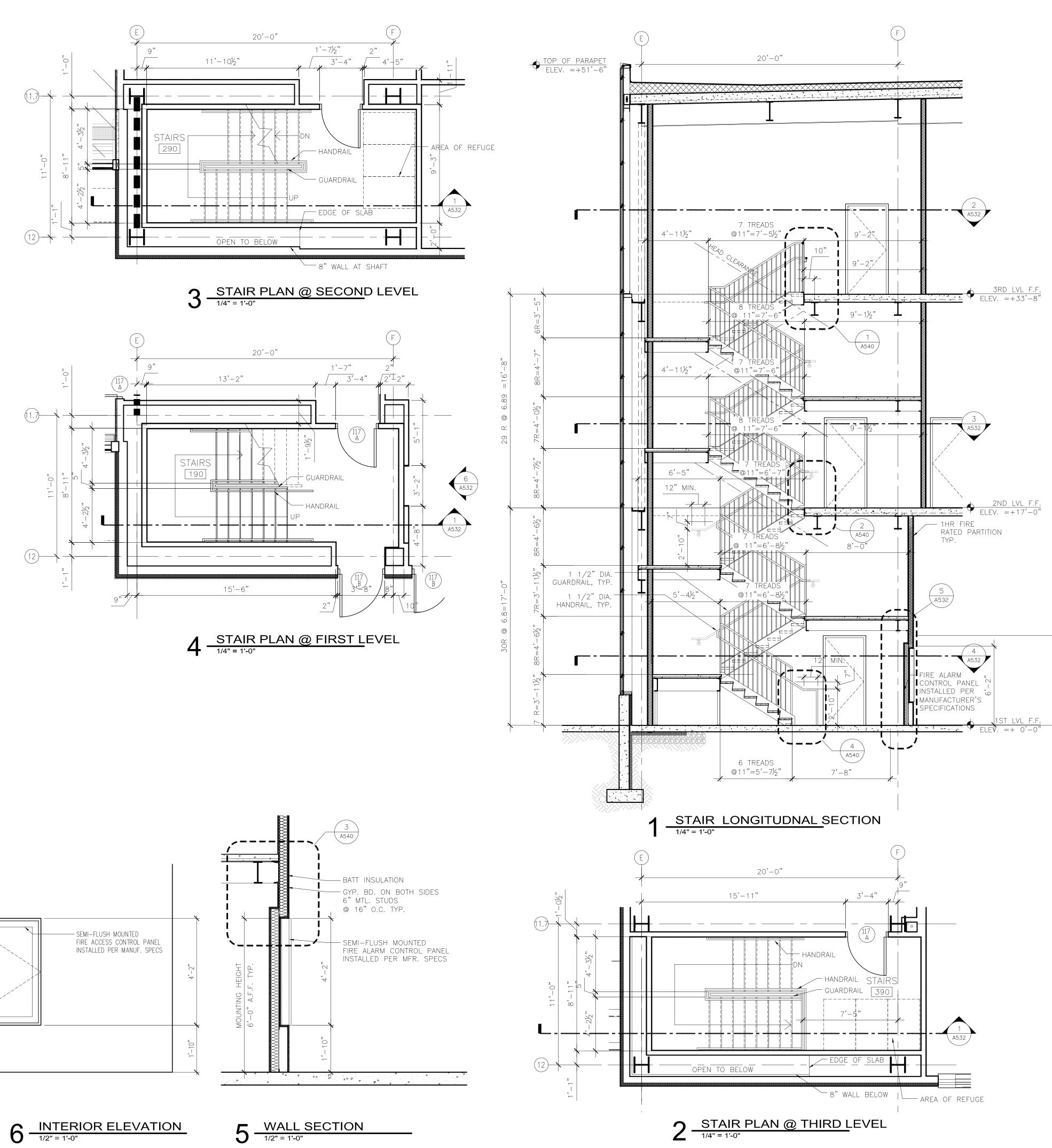




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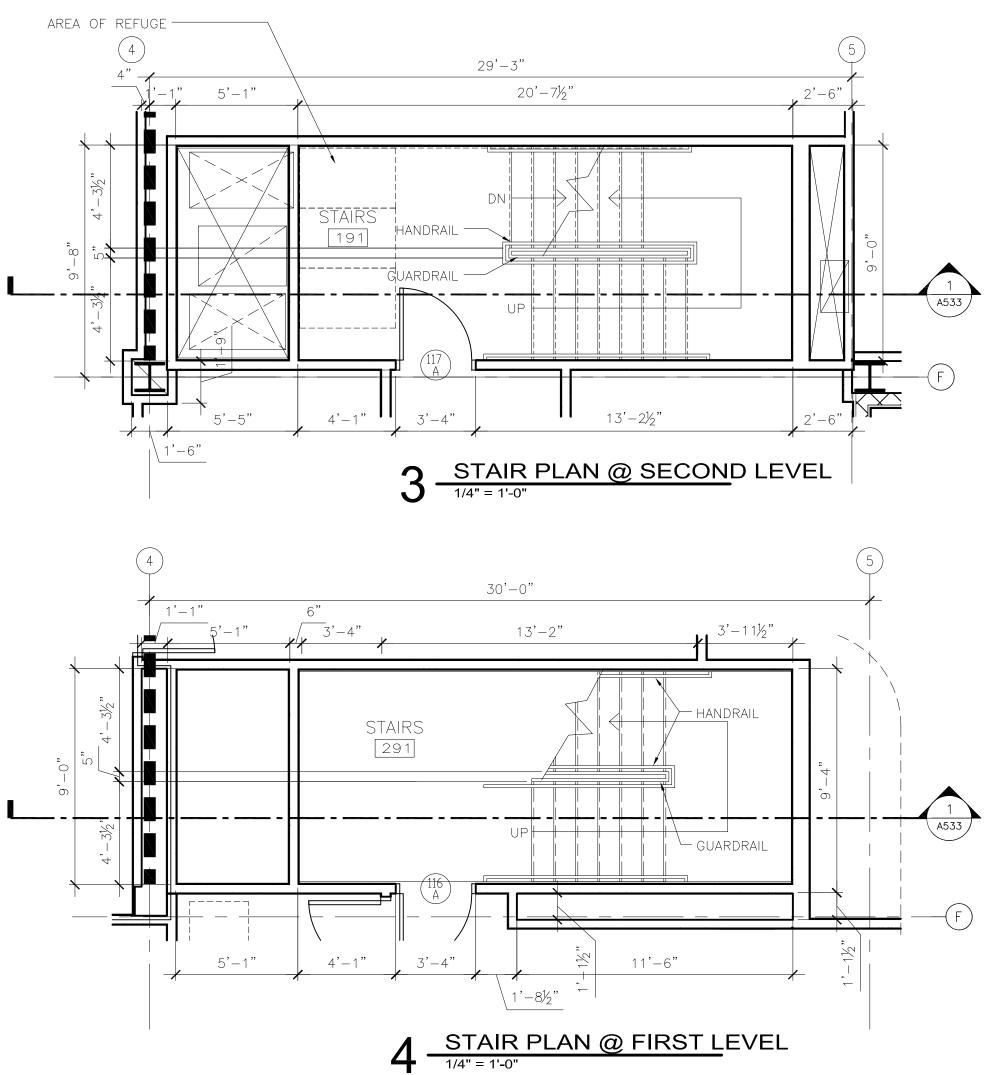
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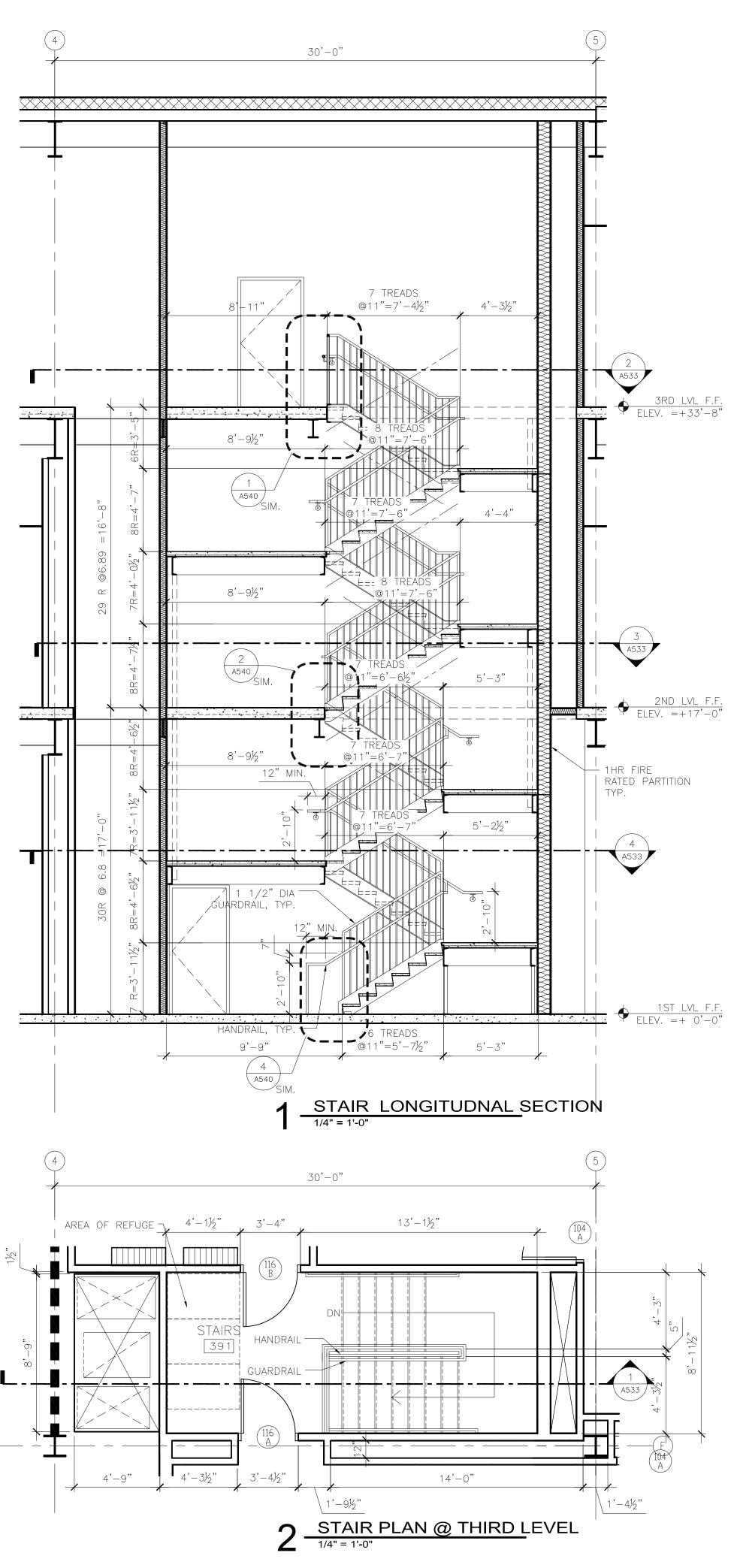
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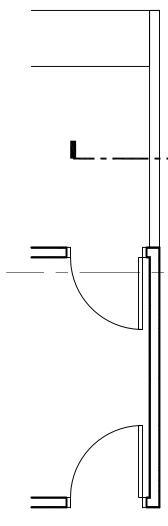


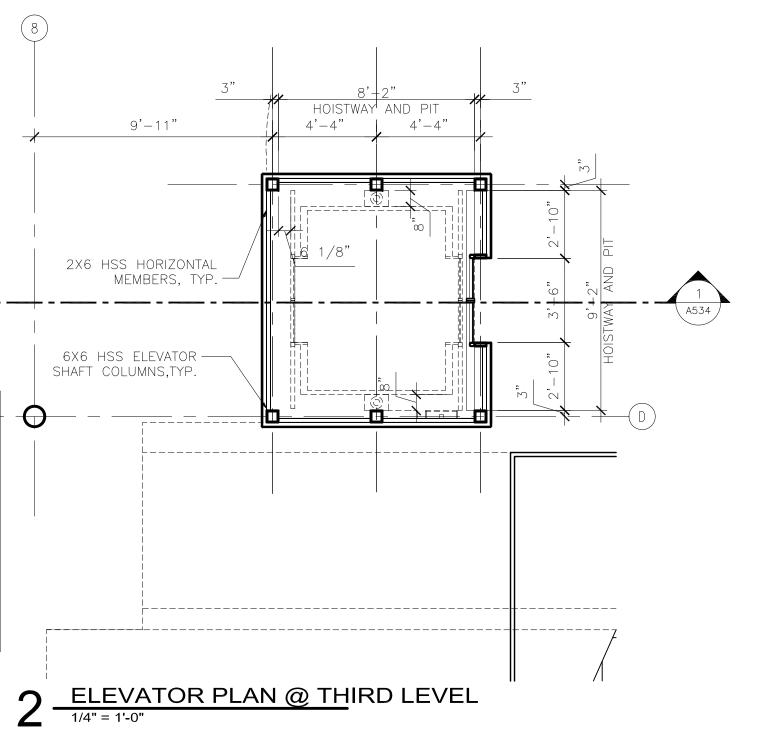
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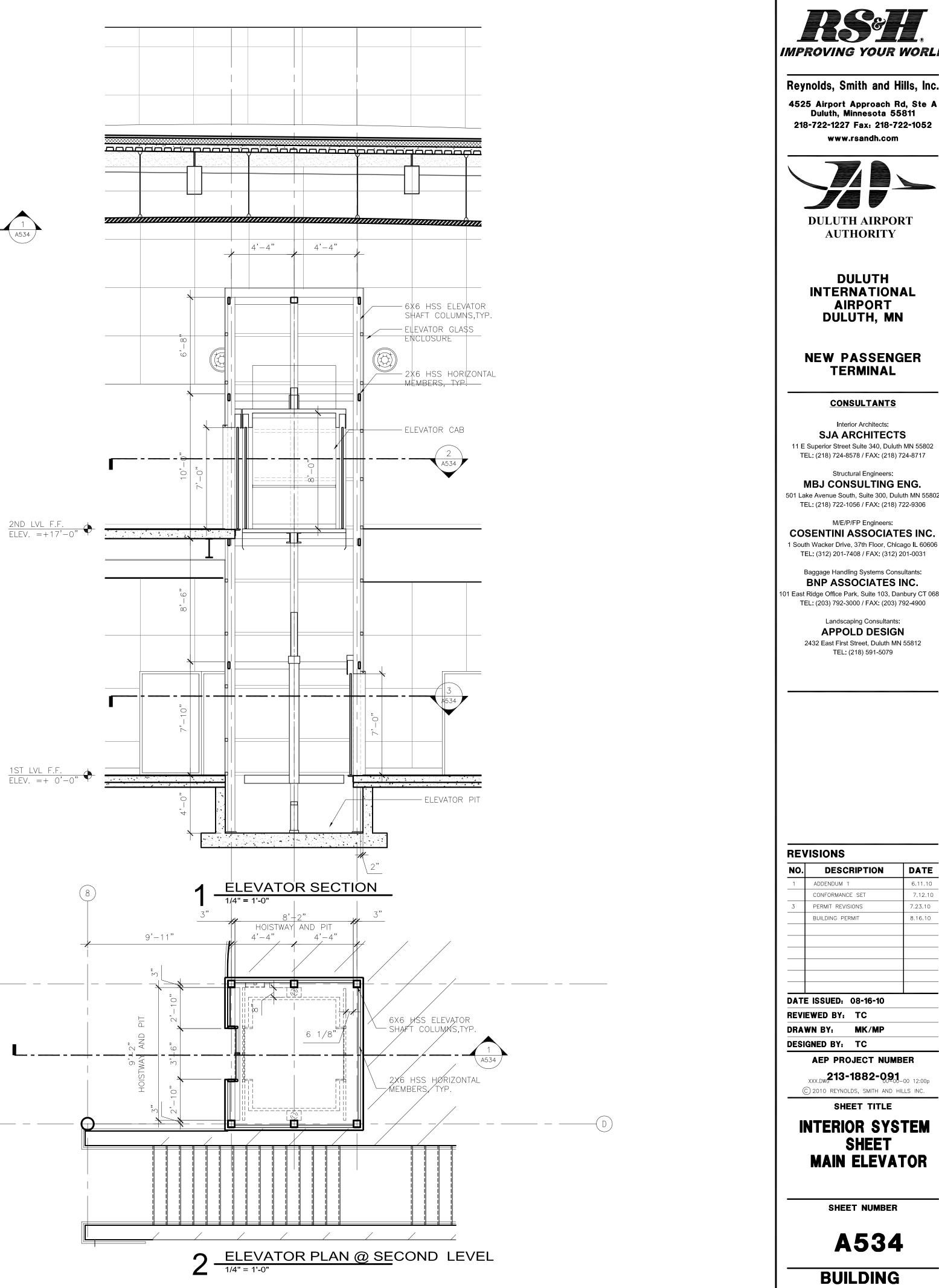




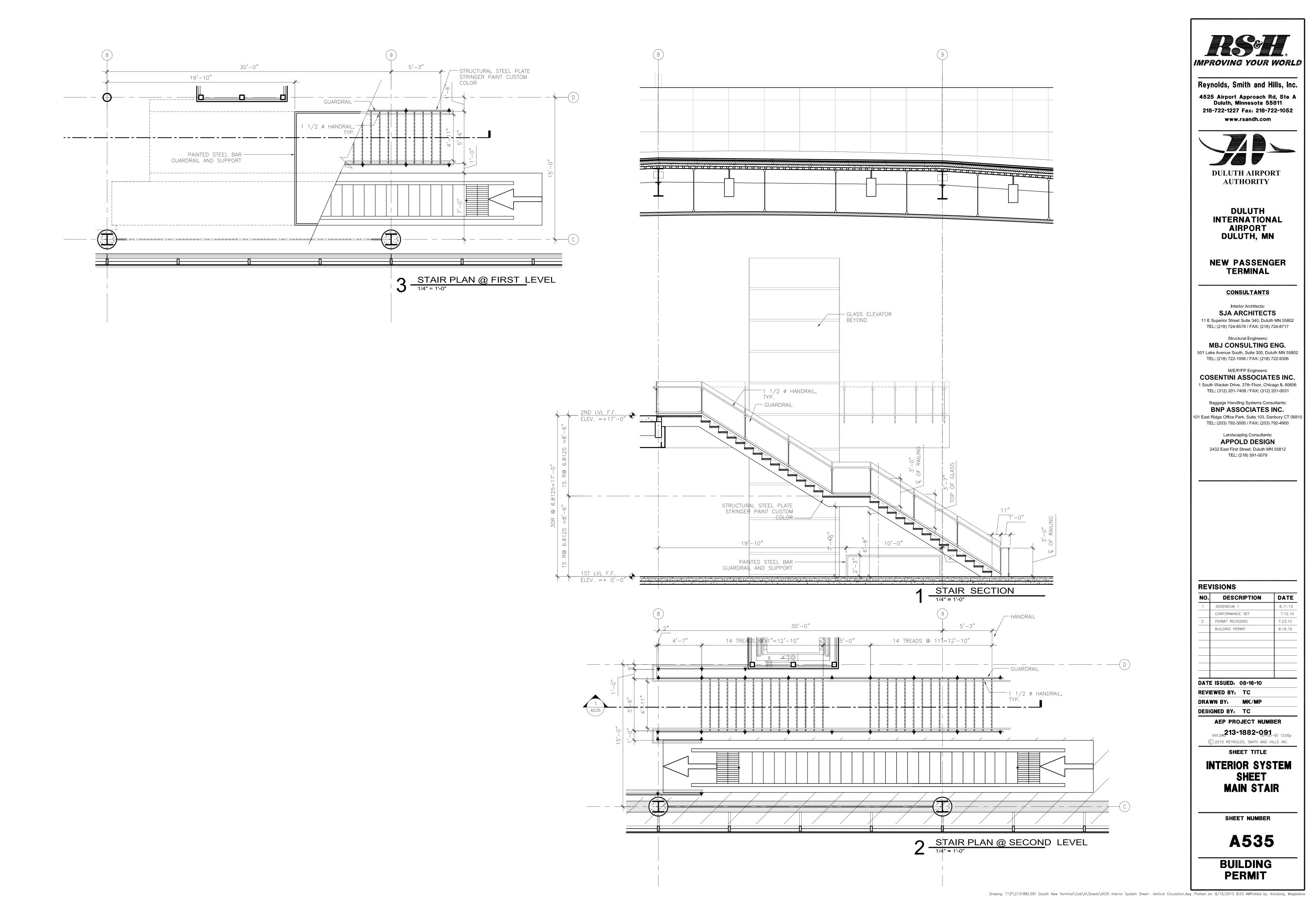


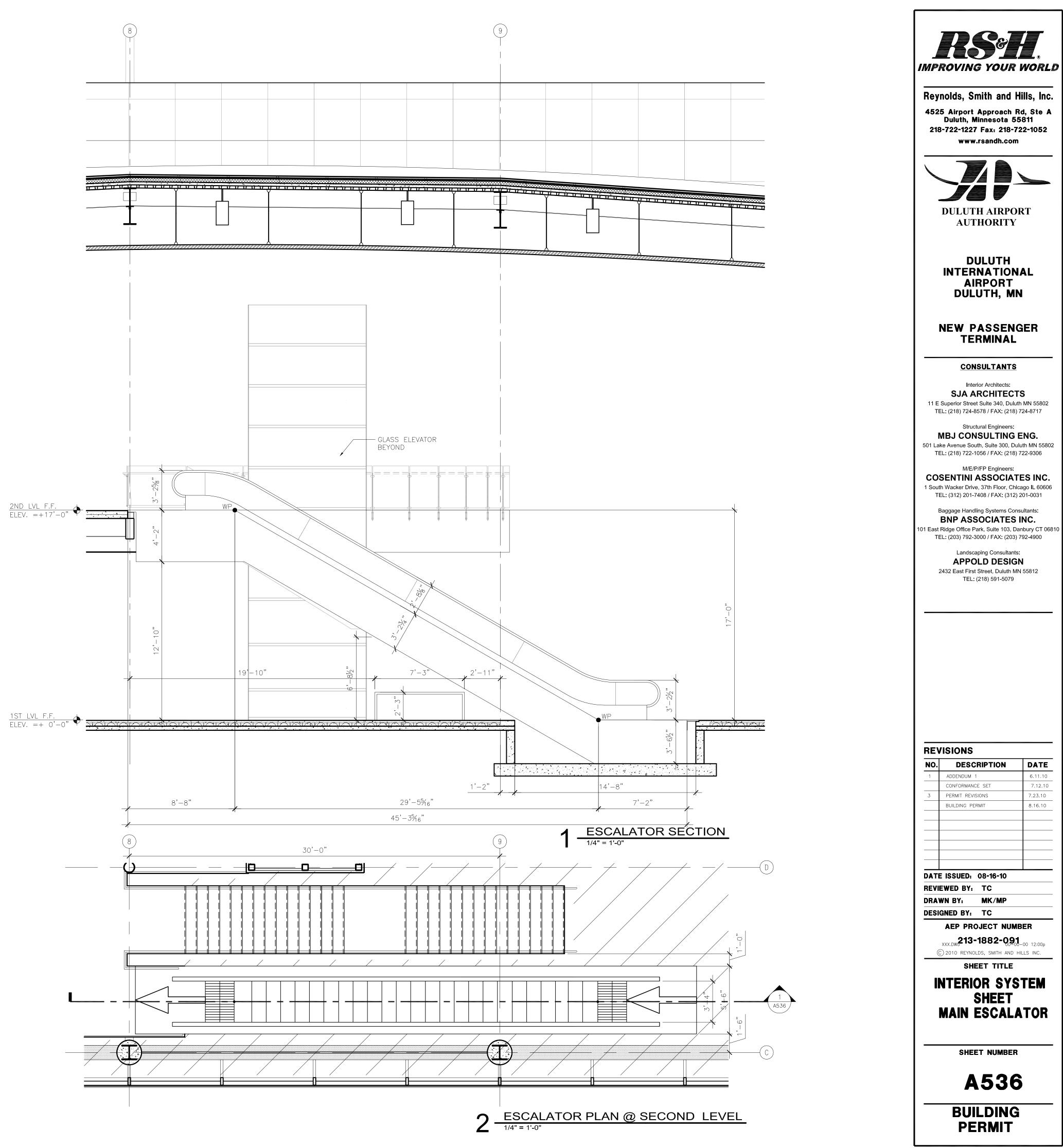




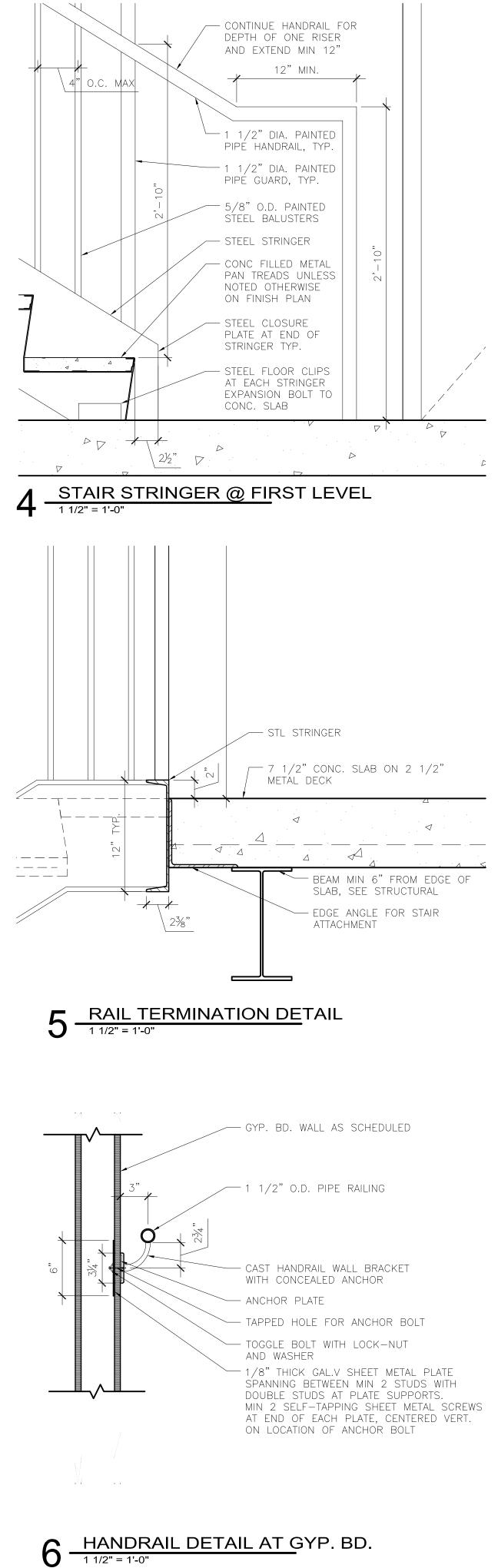


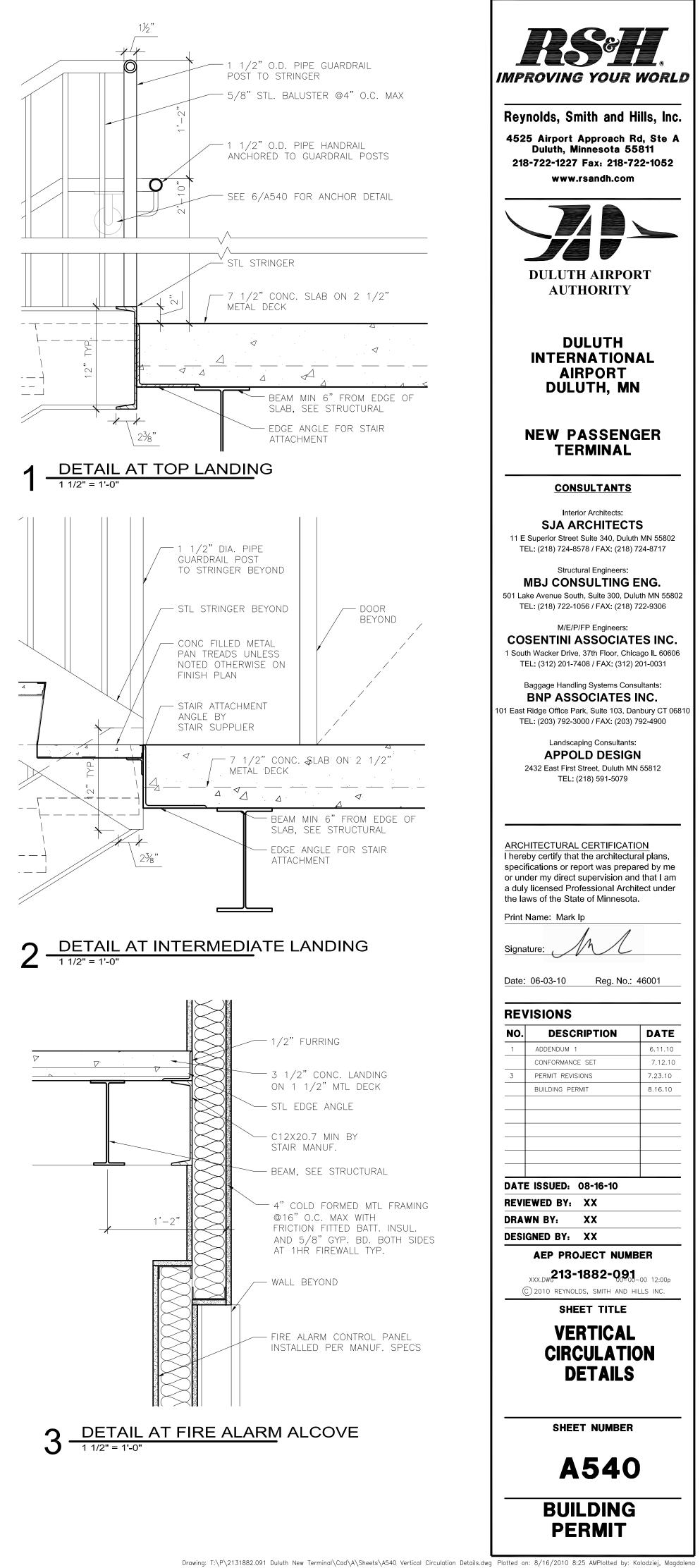
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	DULUTH AIRPOR AUTHORITY	Ϋ́Τ
	DULUTH INTERNATION/ AIRPORT DULUTH, MN	
	NEW PASSENG Terminal	ER
	CONSULTANTS	
	Interior Architects: <b>SJA ARCHITECTS</b> Superior Street Suite 340, Duluth EL: (218) 724-8578 / FAX: (218) 72	MN 55802
501 La	Structural Engineers: <b>MBJ CONSULTING E</b> ke Avenue South, Suite 300, Dulu EL: (218) 722-1056 / FAX: (218) 72 M/E/R/ED Engineers:	th MN 55802
1 Sout T	M/E/P/FP Engineers: SENTINI ASSOCIATE h Wacker Drive, 37th Floor, Chica EL: (312) 201-7408 / FAX: (312) 2	go IL 60606 01-0031
101 East	Baggage Handling Systems Consu BNP ASSOCIATES II Ridge Office Park, Suite 103, Dan EL: (203) 792-3000 / FAX: (203) 79	<b>NC.</b> bury CT 06810
	Landscaping Consultants: APPOLD DESIGN	
:	2432 East First Street, Duluth MN TEL: (218) 591-5079	55812
	/ISIONS	
<b>NO.</b>	ADDENDUM 1	<b>DATE</b> 6.11.10
3	CONFORMANCE SET PERMIT REVISIONS	7.12.10
· 	BUILDING PERMIT	8.16.10
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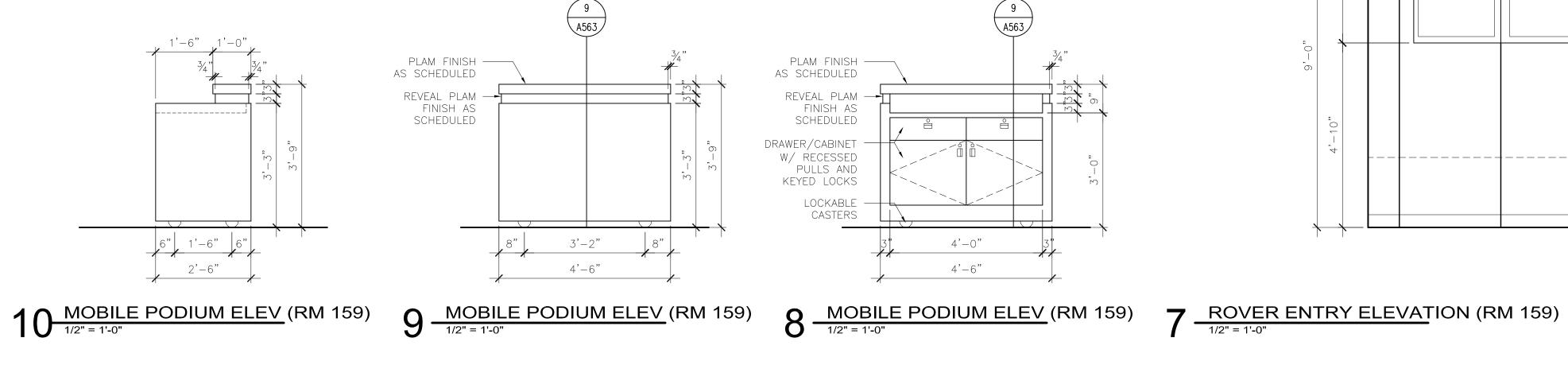


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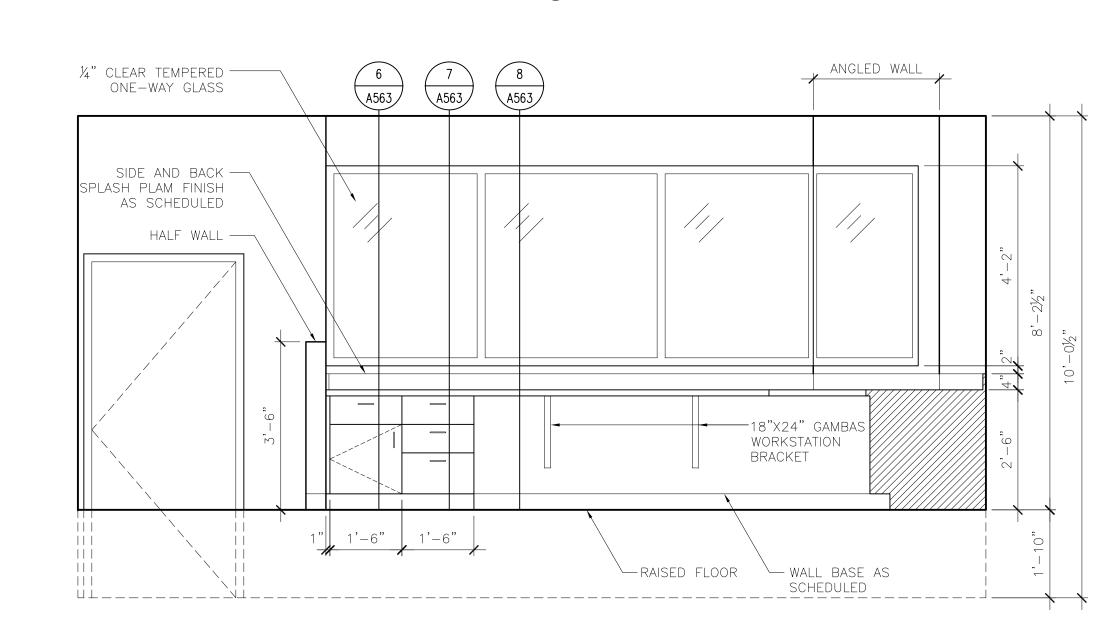




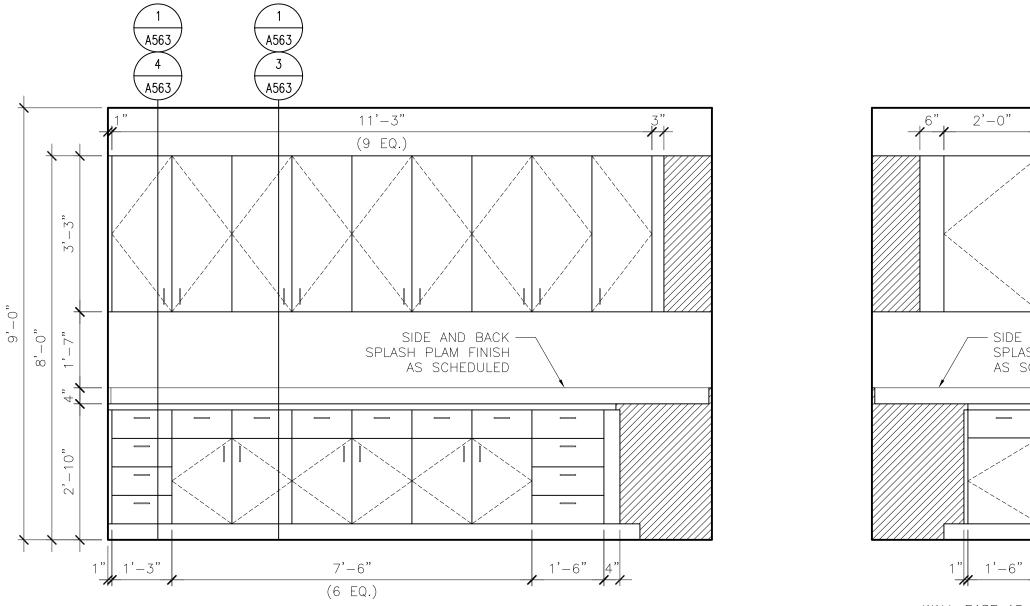




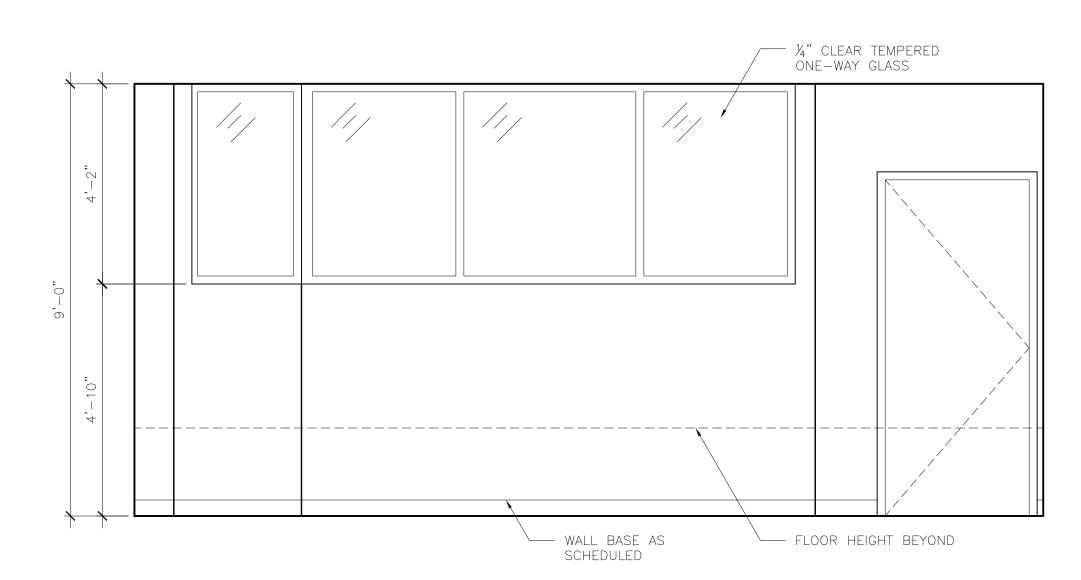




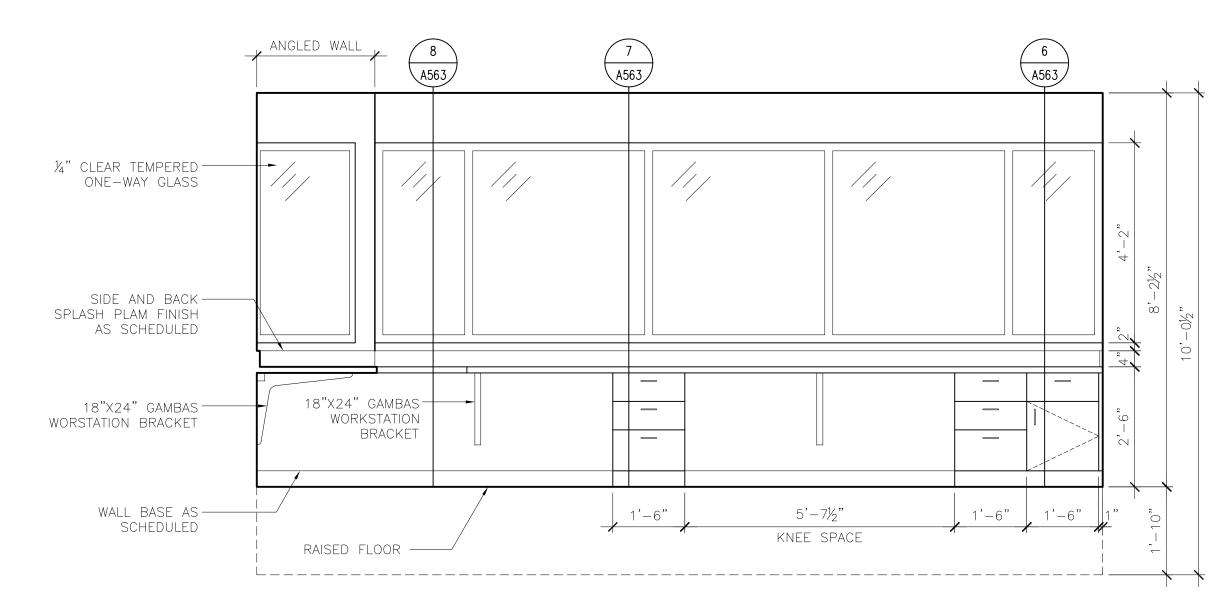




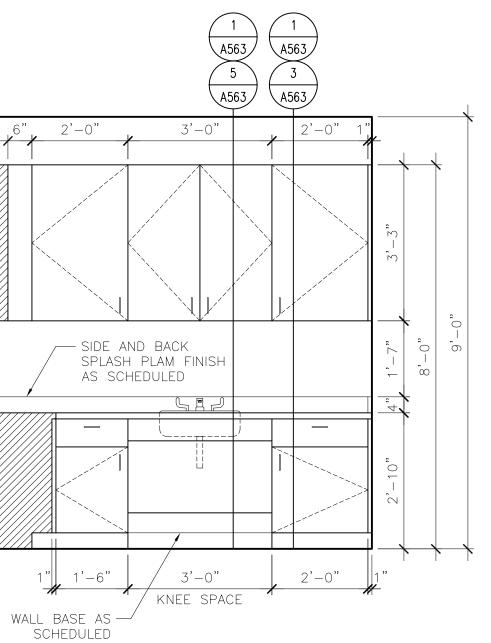


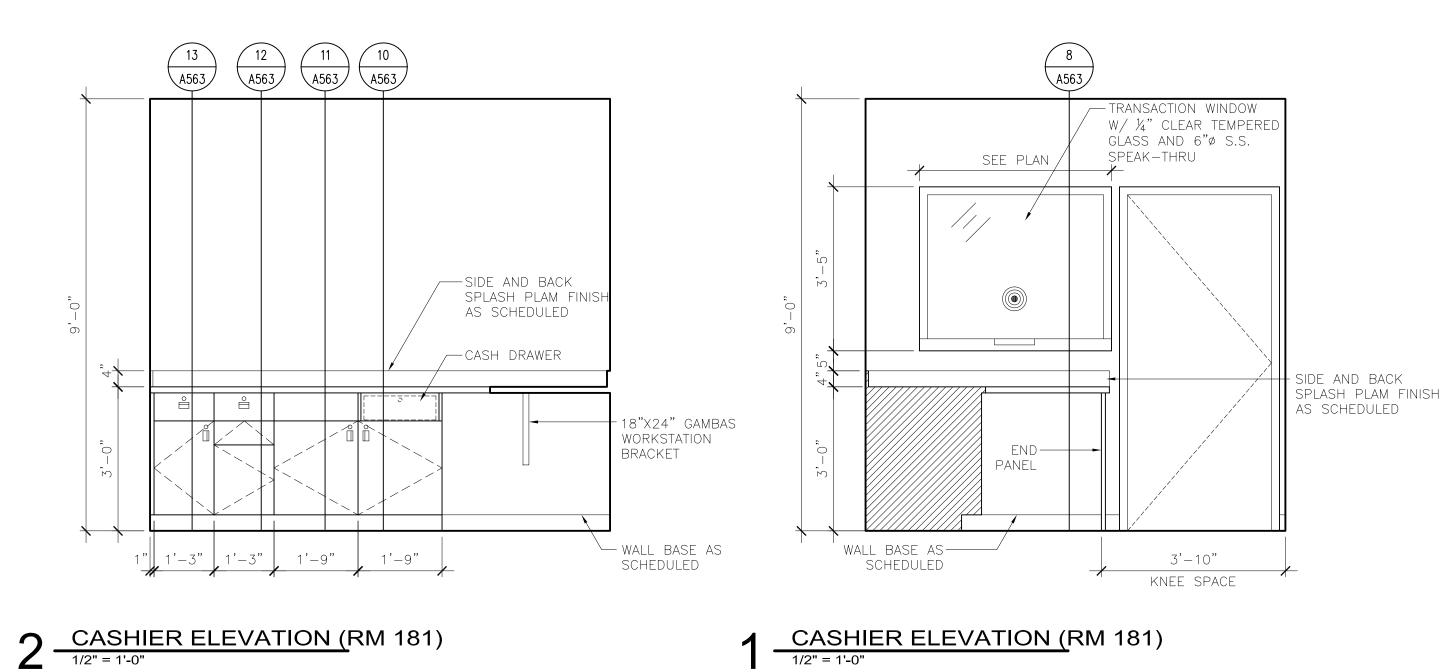










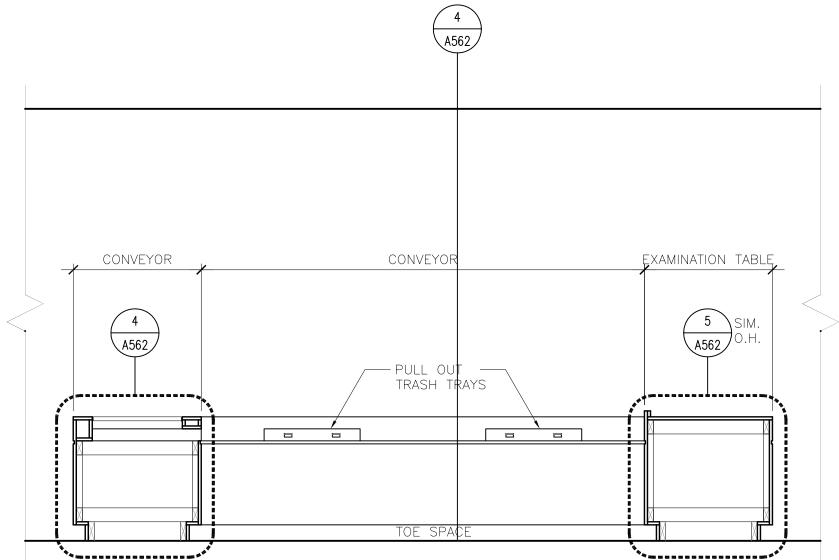


### CASHIER ELEVATION (RM 181)

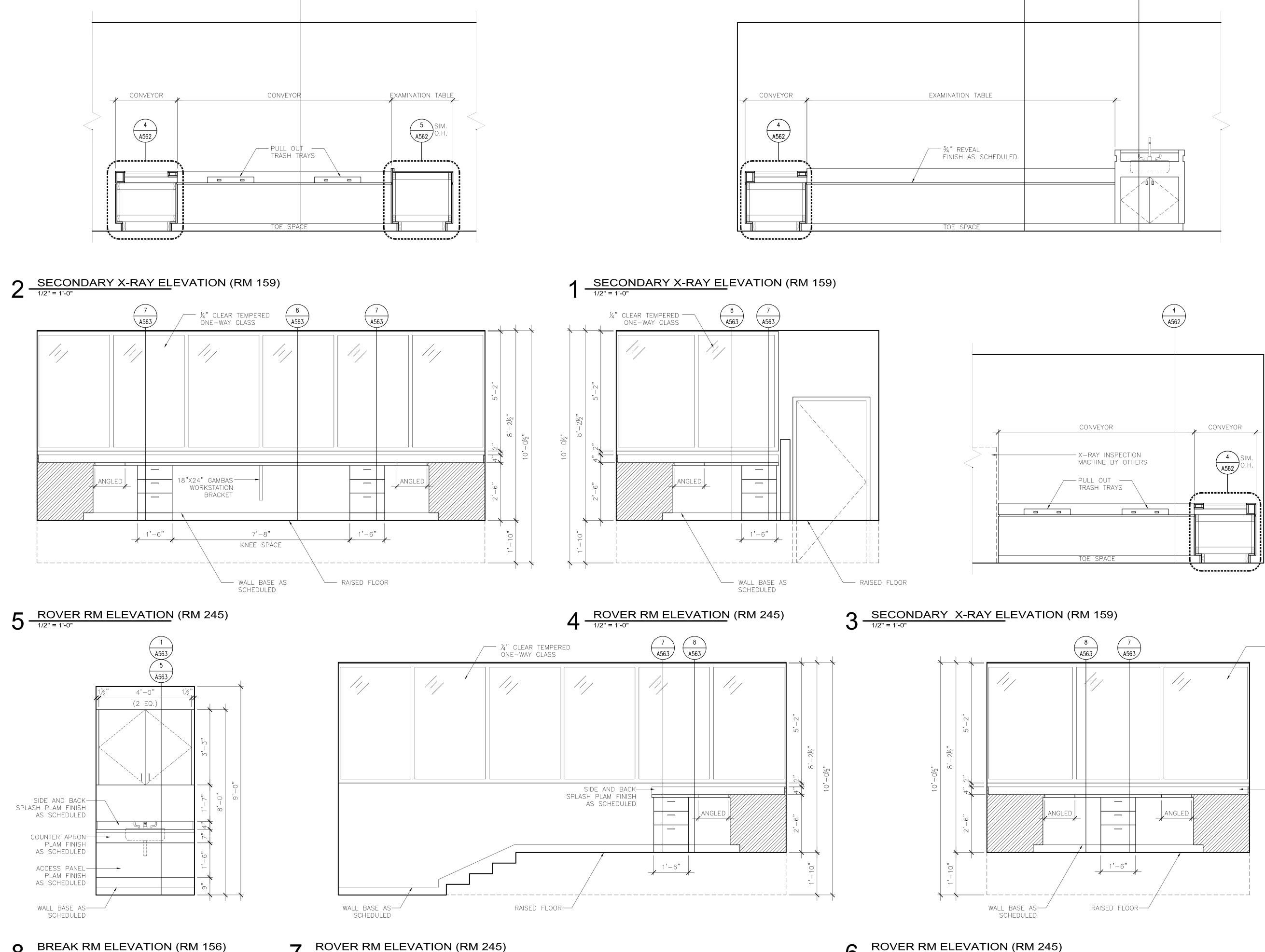
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Duluth, Minneeota 5	Hills, Inc. Rd, Sto A 5811 122-1052
DULUTH AIRPO	RT
DULUTH INTERNATION AIRPORT DULUTH, MI	
NEW PASSEN Terminal	GER
CONSULTANTS	
Interior Architects: <b>SJA ARCHITECT</b> 11 E Superior Street Suite 340, Dulu TEL: (218) 724-8578 / FAX: (218)	Γ <b>S</b> th MN 55802
Structural Engineers: <b>MBJ CONSULTING</b> 501 Lake Avenue South, Suite 300, Du TEL: (218) 722-1056 / FAX: (218) M/E/P/FP Engineers:	luth MN 55802
COSENTINI ASSOCIAT 1 South Wacker Drive, 37th Floor, Chi TEL: (312) 201-7408 / FAX: (312)	cago IL 60606 201-0031
Baggage Handling Systems Cor BNP ASSOCIATES 101 East Ridge Office Park, Suite 103, D. TEL: (203) 792-3000 / FAX: (203) Landscaping Consultants	INC. anbury CT 06810 792-4900
<b>APPOLD DESIG</b> 2432 East First Street, Duluth M TEL: (218) 591-5079	
ARCHITECTURAL CERTIFICAT I hereby certify that the architectu specifications or report was prepa or under my direct supervision ar a duly licensed Professional Arch the laws of the State of Minnesot Print Name: Mark Ip	ural plans, ared by me nd that I am nitect under
Signature:	
Date: 06-03-10 Reg. No.:	46001
REVISIONS No. DESCRIPTION	DATE
1 ADDENDUM 1 CONFORMANCE SET	6.11.10 7.12.10
3 PERMIT REVISIONS BUILDING PERMIT	7.23.10 8.16.10
DATE ISSUED: 08-16-10 Reviewed By: SBS/TC	
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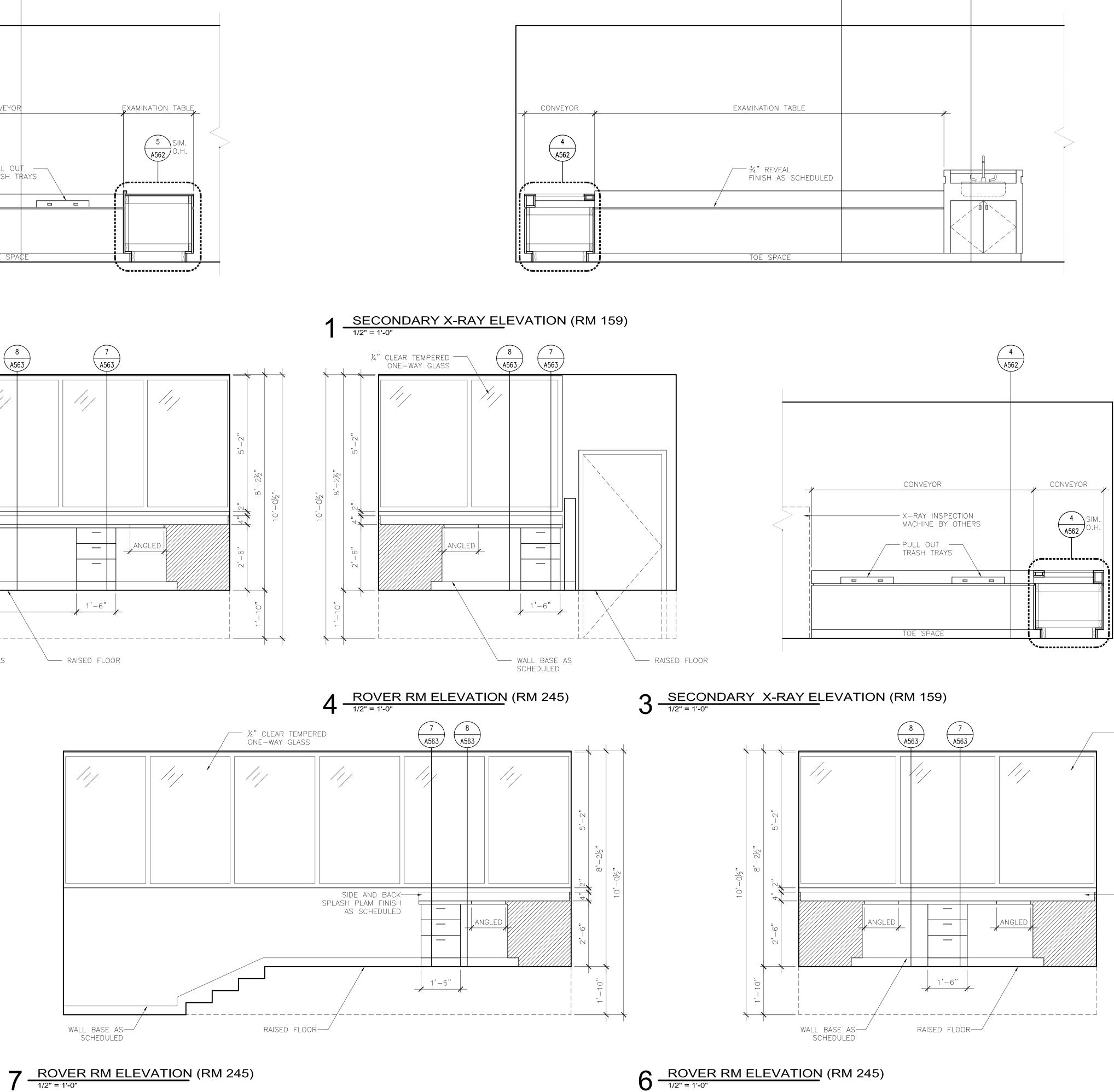
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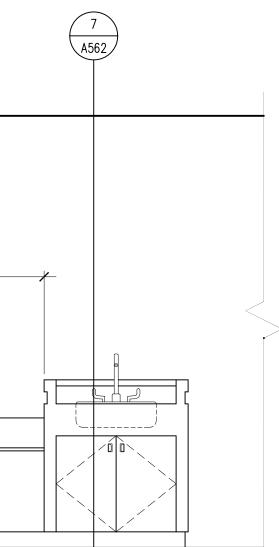








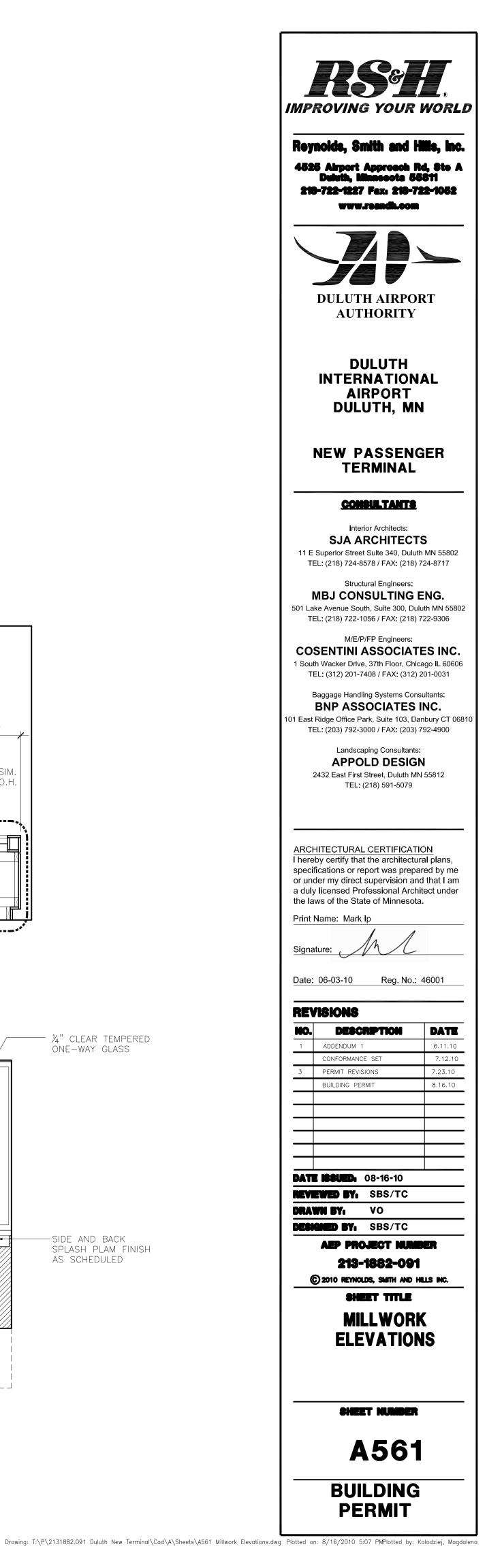


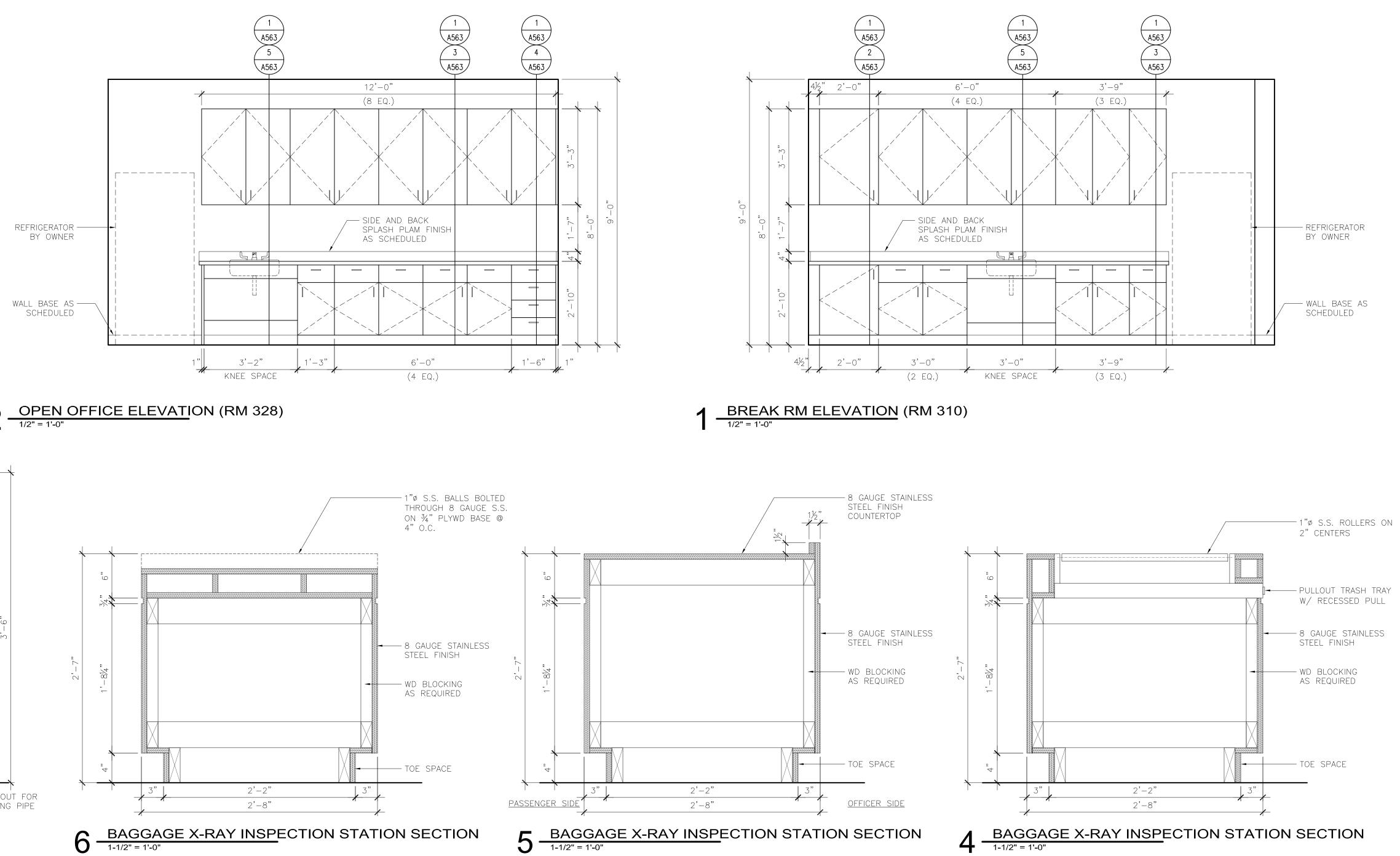


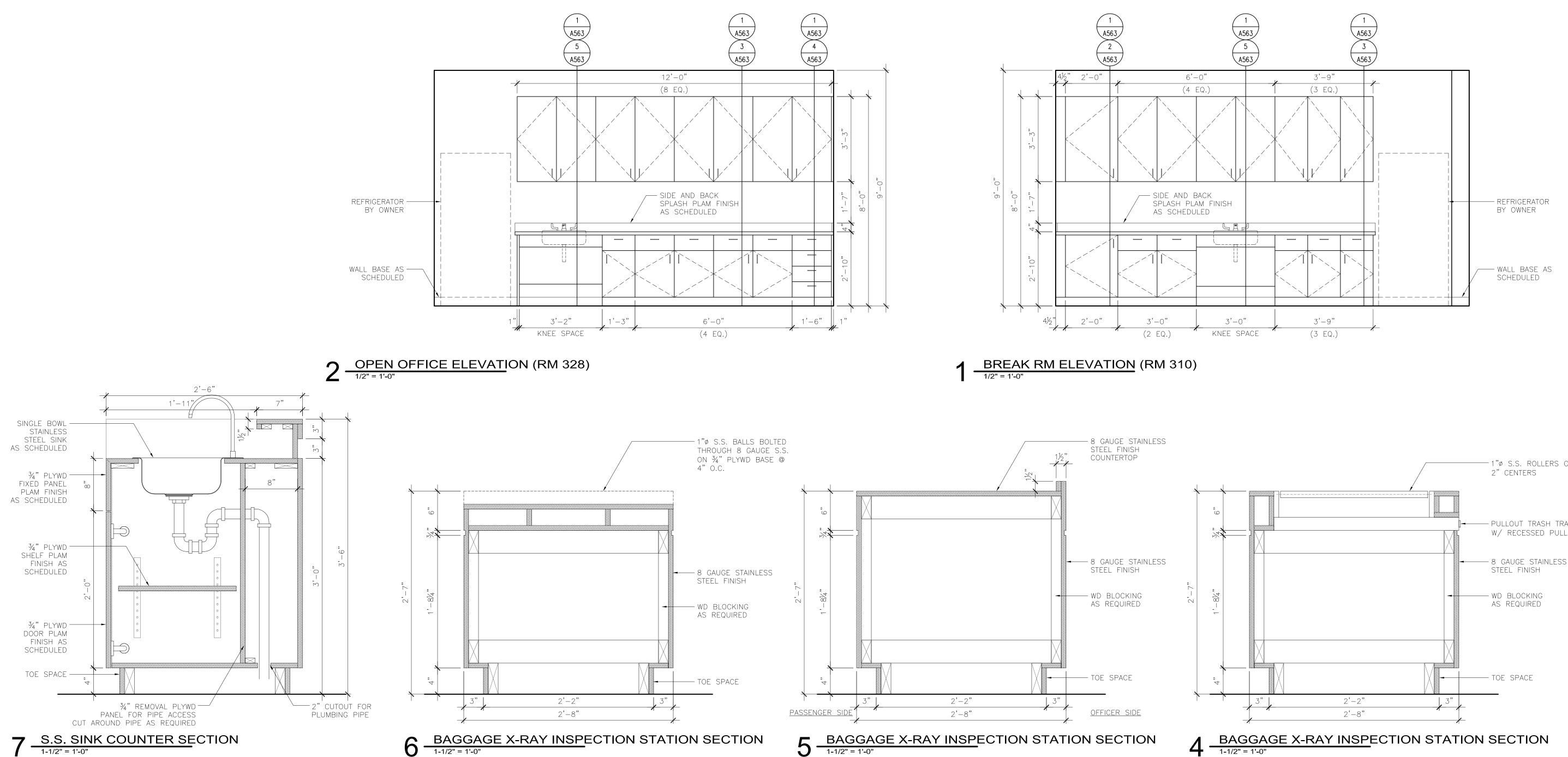
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¼" CLEAR TEMPERED ONE-WAY GLASS

— SIDE AND BACK SPLASH PLAM FINISH AS SCHEDULED

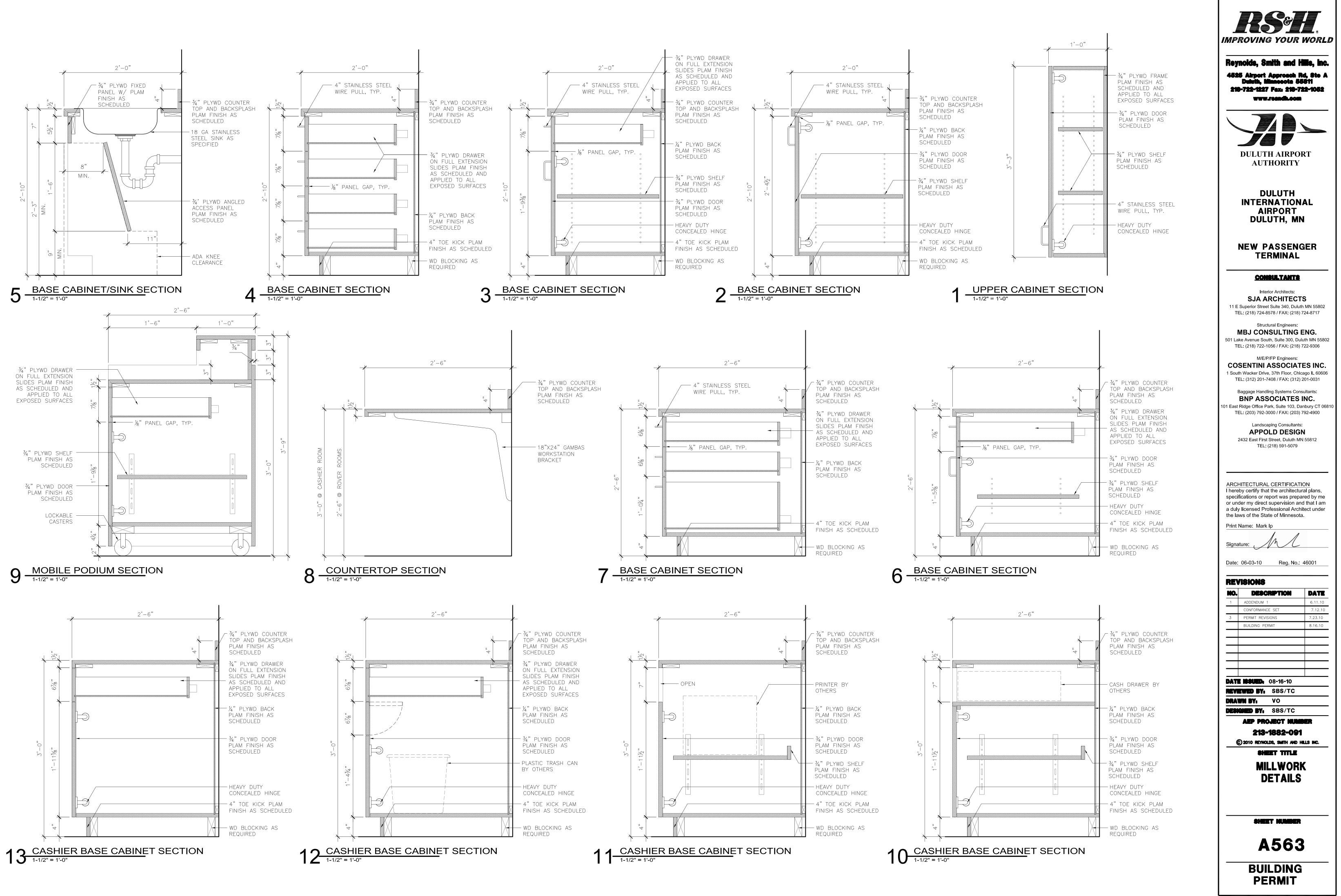




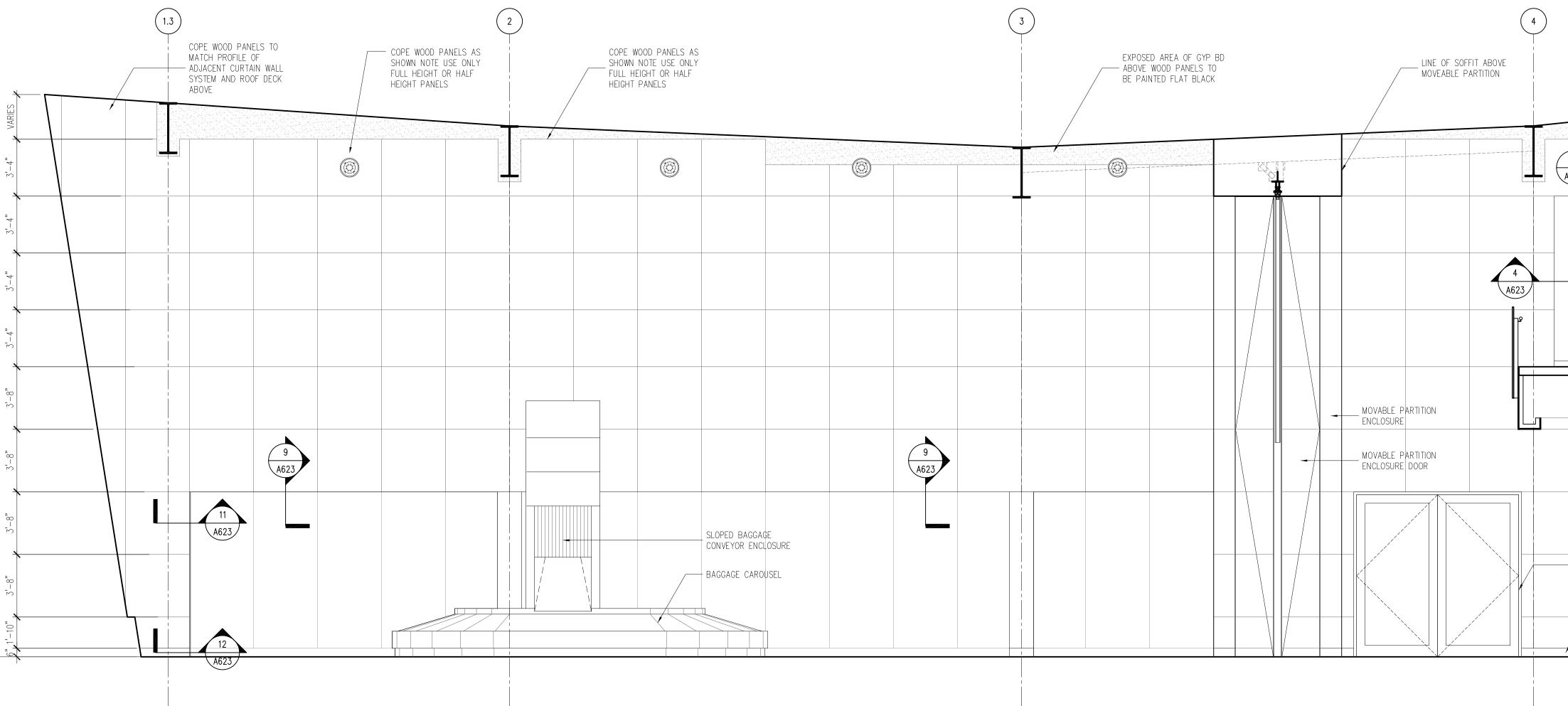


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	NEW PASSEN TERMINAL	GER
	<u>CONSULTANTS</u>	
11 E	Interior Architects: <b>SJA ARCHITECT</b> Superior Street Suite 340, Dulut	-
	EL: (218) 724-8578 / FAX: (218) Structural Engineers:	
501 La	MBJ CONSULTING ake Avenue South, Suite 300, Du EL: (218) 722-1056 / FAX: (218)	luth MN 55802
	M/E/P/FP Engineers: SENTINI ASSOCIAT	
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101 East	Baggage Handling Systems Con BNP ASSOCIATES Ridge Office Park, Suite 103, Da	INC. anbury CT 06810
	EL: (203) 792-3000 / FAX: (203)	792-4900
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	APPOLD DESIG 2432 East First Street, Duluth M	Ν
ARCI	APPOLD DESIG 2432 East First Street, Duluth M TEL: (218) 591-5079 HITECTURAL CERTIFICAT	<b>N</b> N 55812 ION
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Drawing: T:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A562 Millwork Elevations and Details.dwg Plotted on: 8/16/2010 5:07 PMPlotted by: Kolodziej, Magdalena



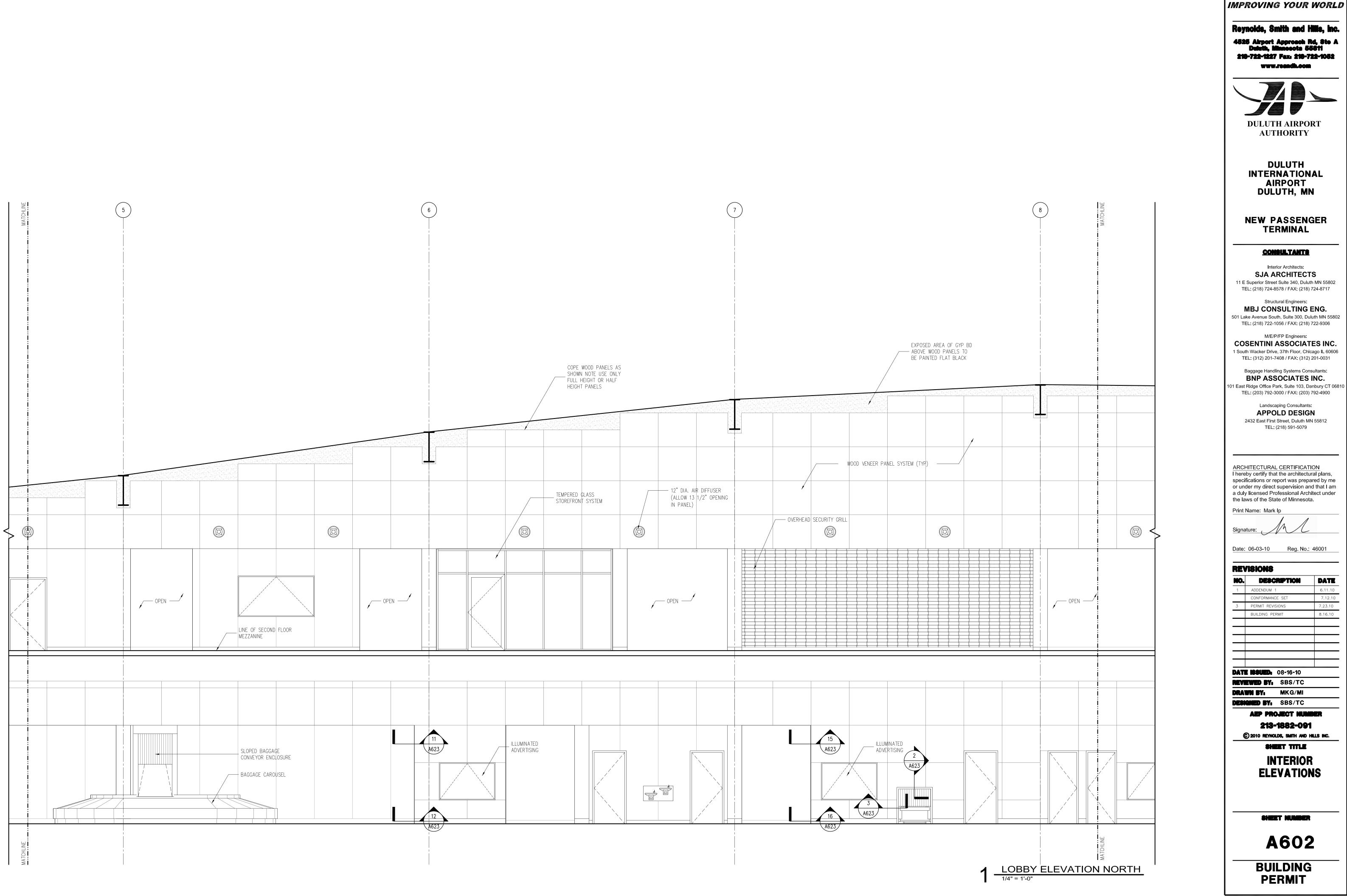
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HLINE 7 A623 — DRINKING FOUNTAIN \_\_\_\_ OPEN \_\_\_\_/ LINE OF SECOND FLOOR MEZZANINE 9 A623 11 \_\_\_\_ A623 /---- 6" STAINLESS STL BASE 12 A623 I≥ LOBBY ELEVATION NORTH 1/4" = 1'-0"

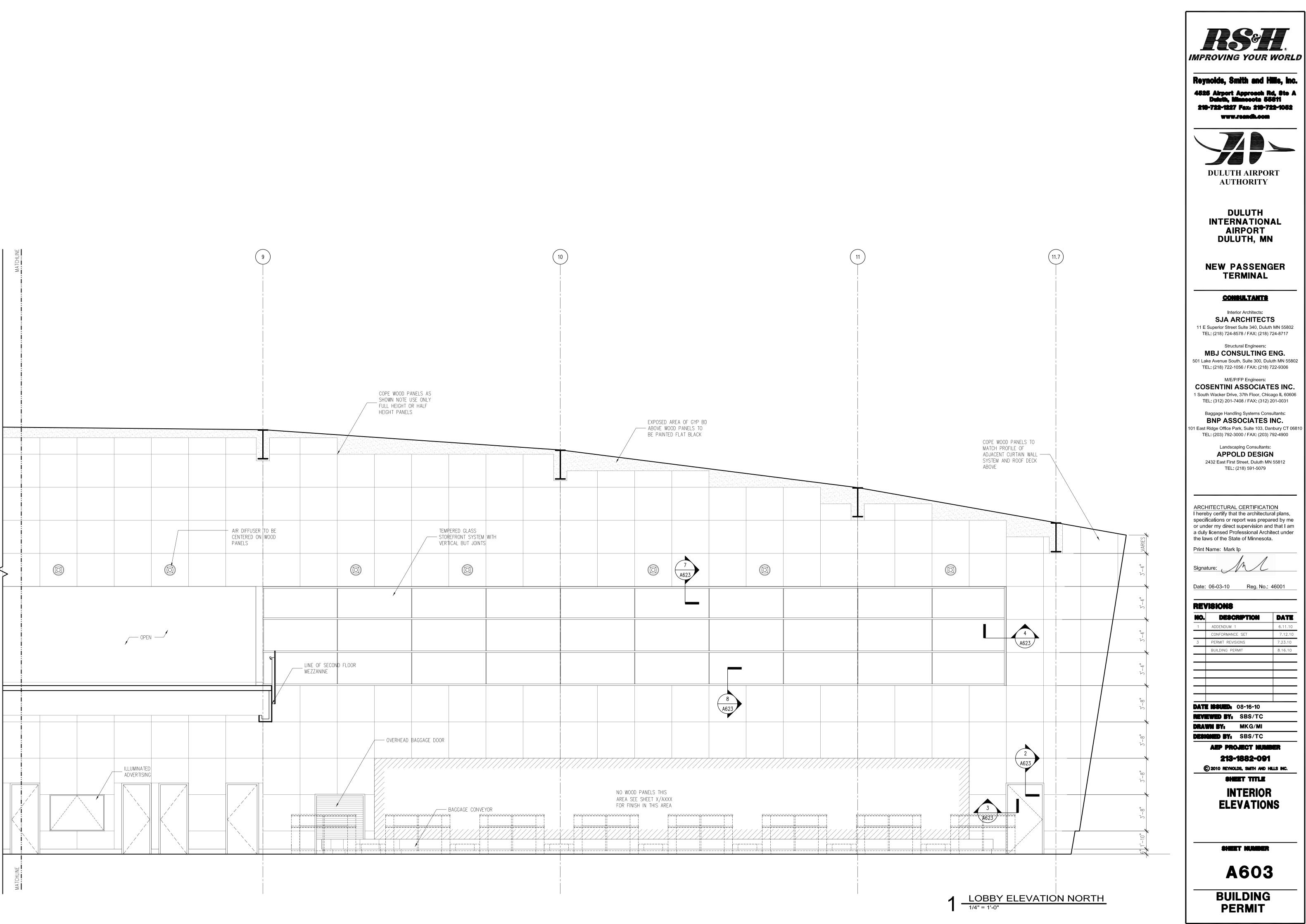
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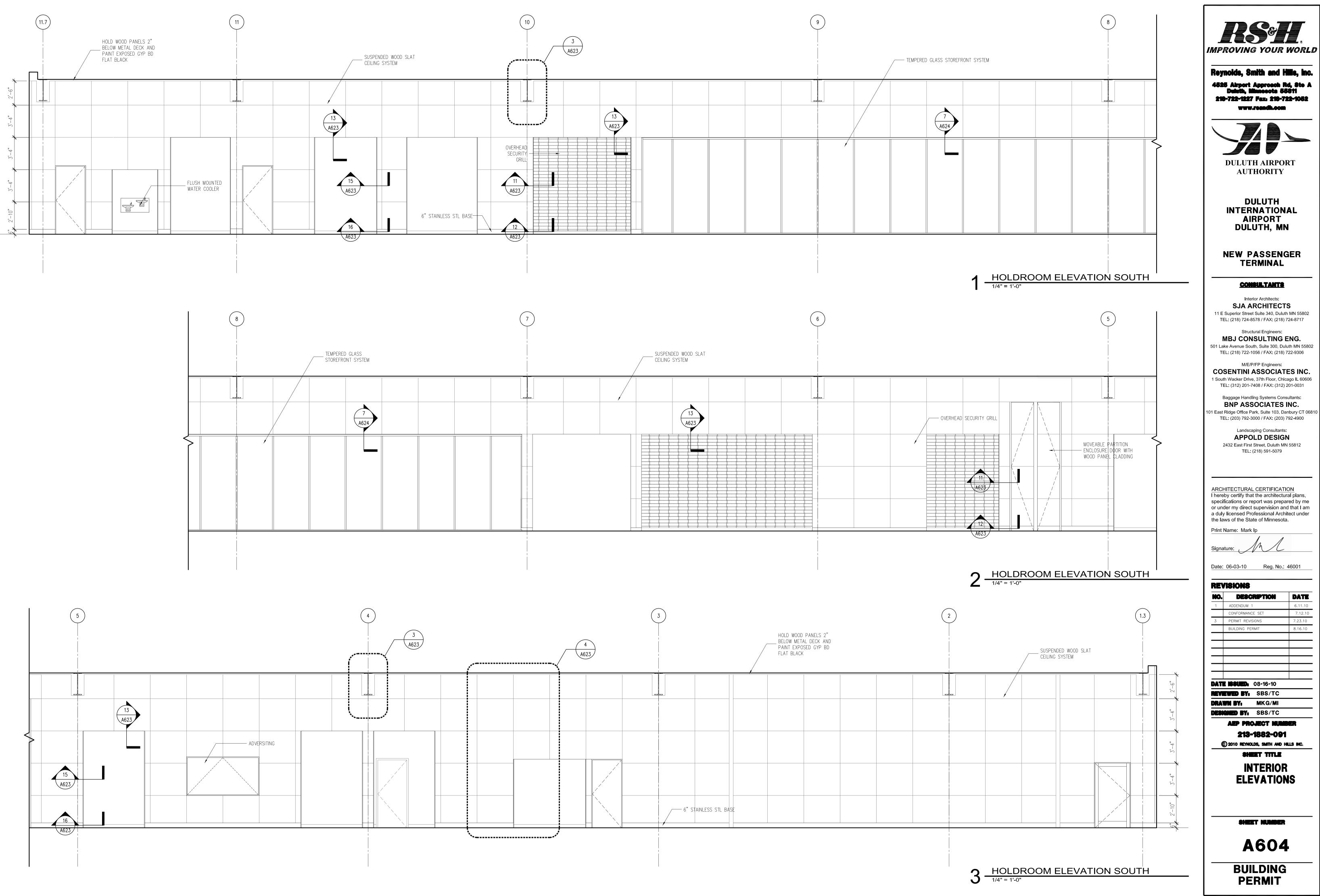
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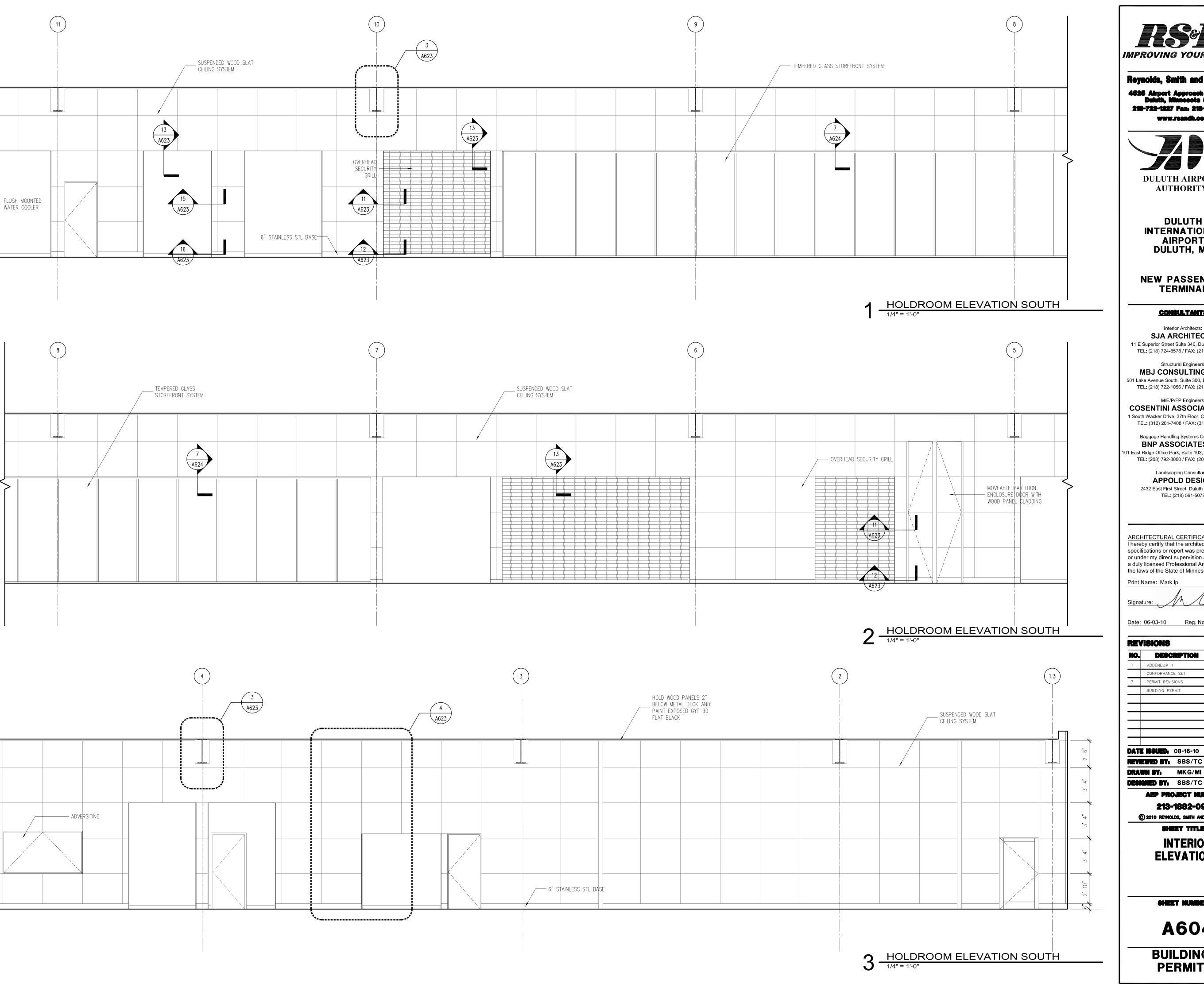
Plotted by: Ip, Mark

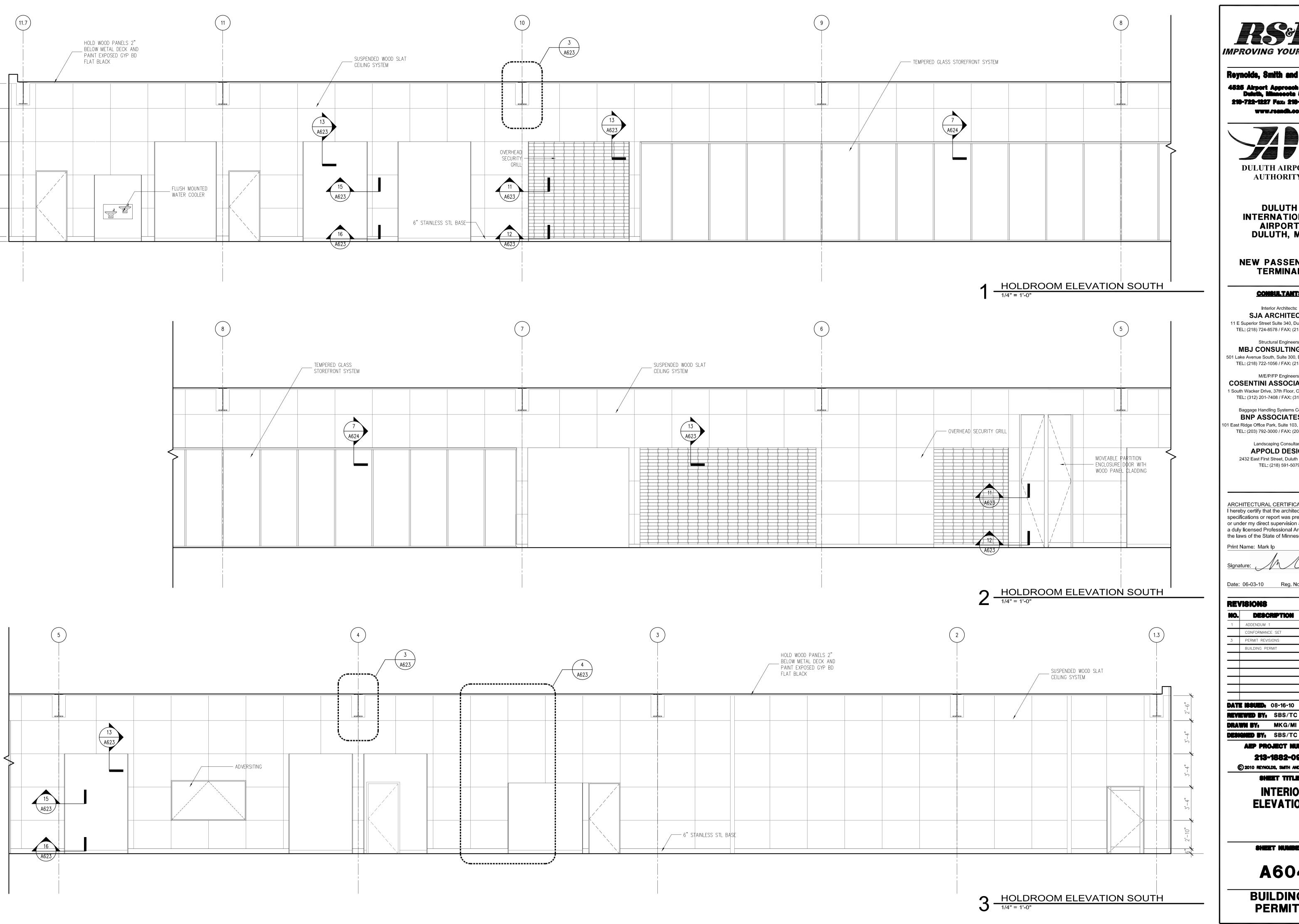
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Drawing: t:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A603 Interior Elevations.dwg Plotted on: 8/13/2010 1:40 PM







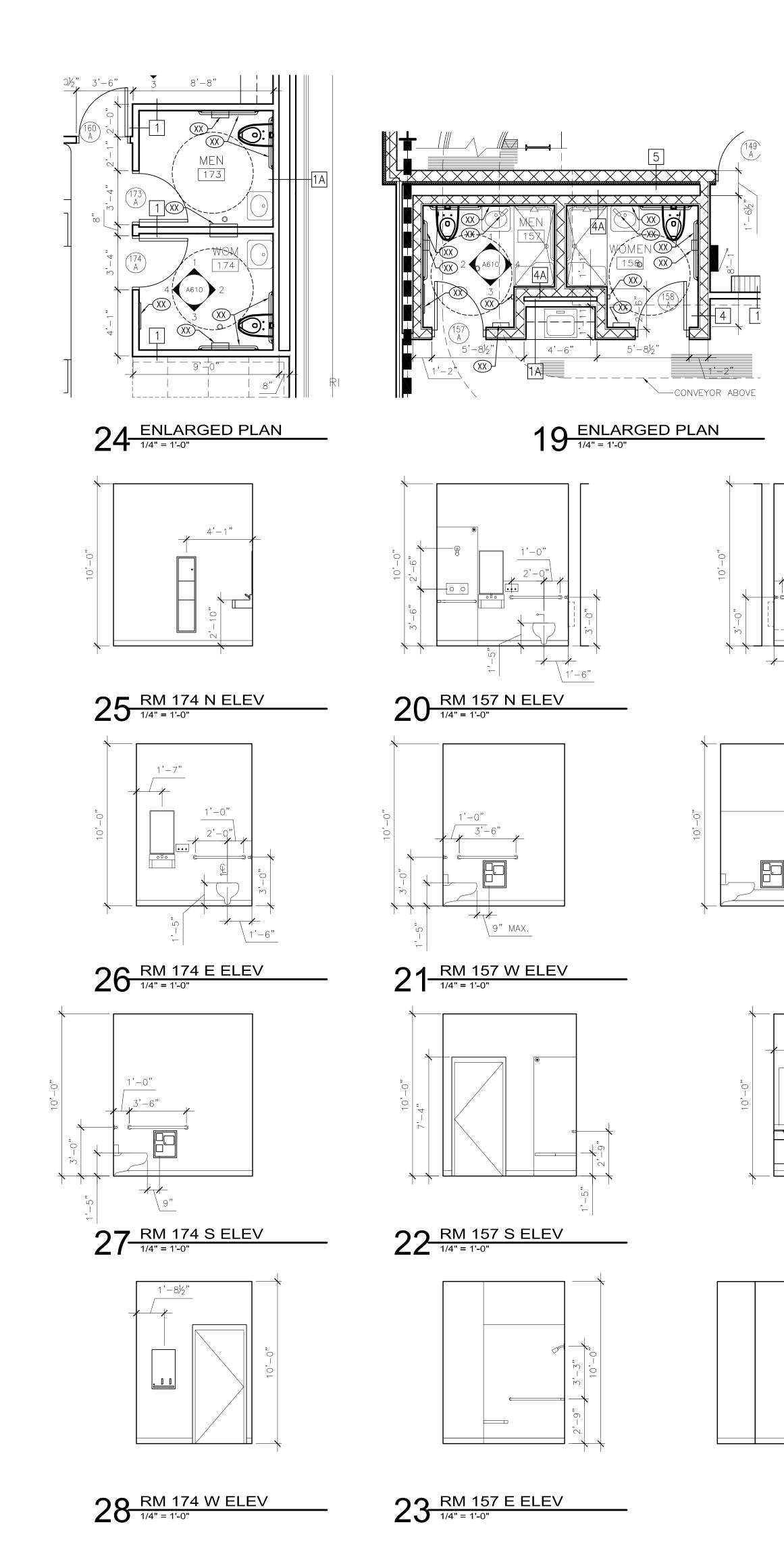
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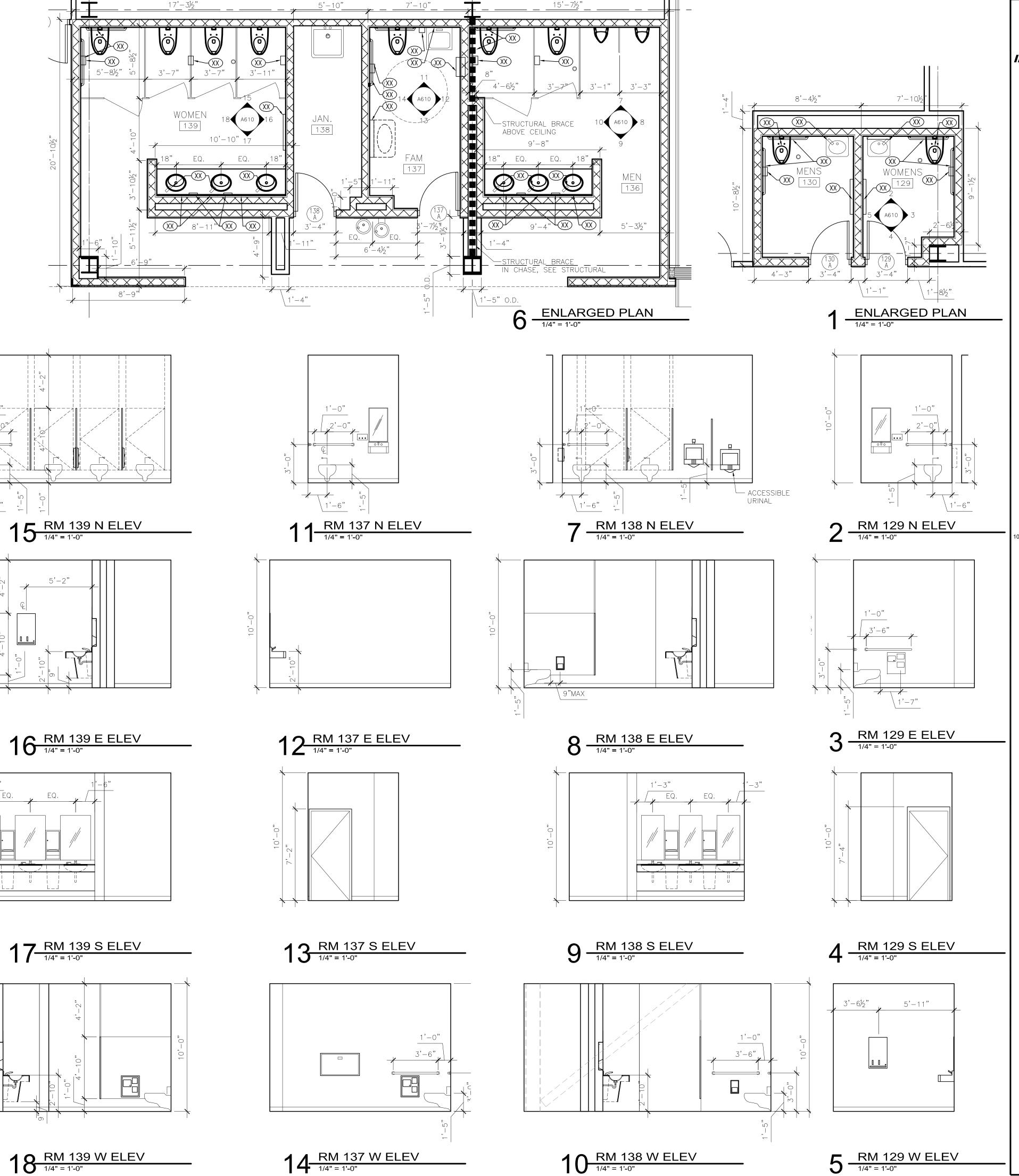
7.12.10

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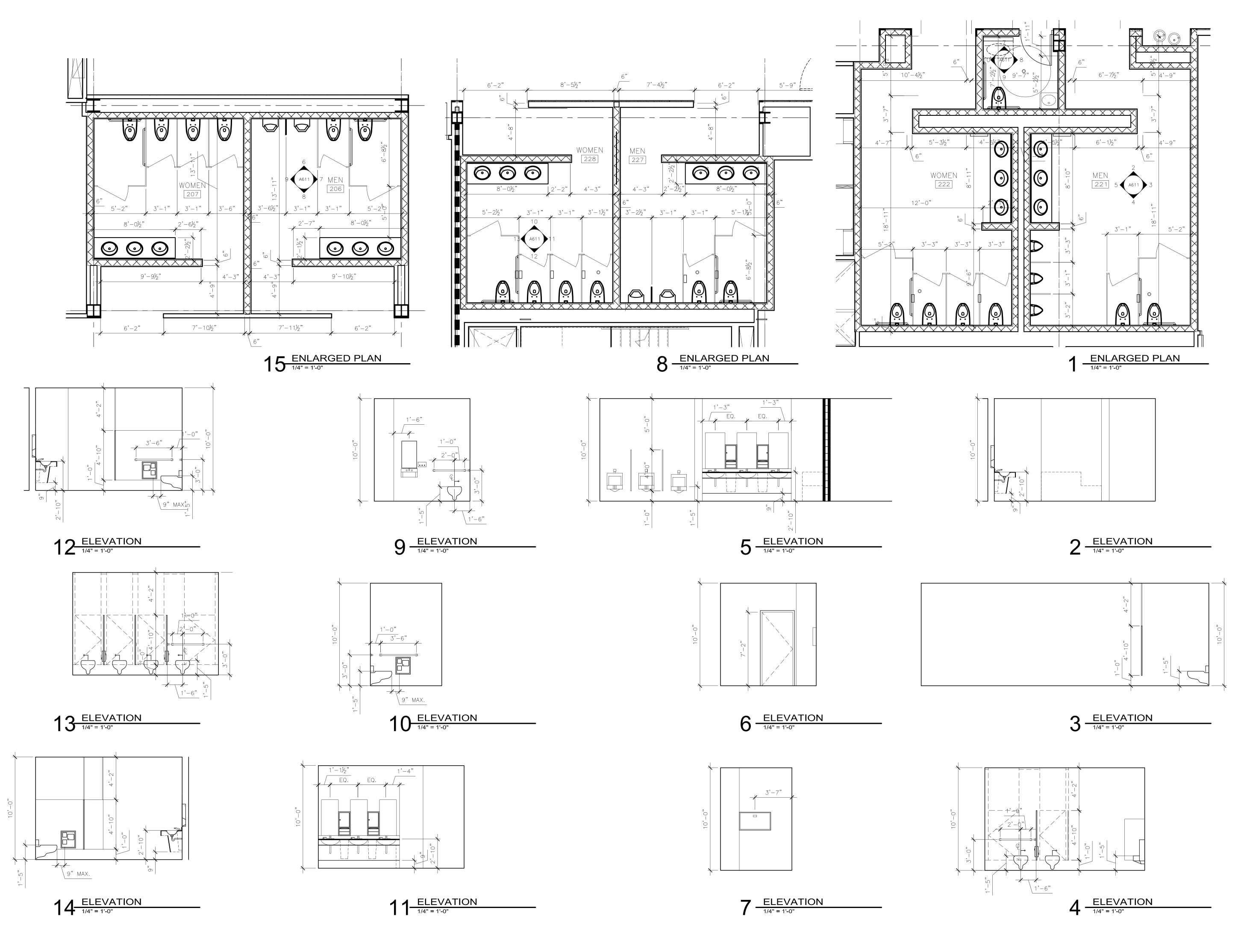
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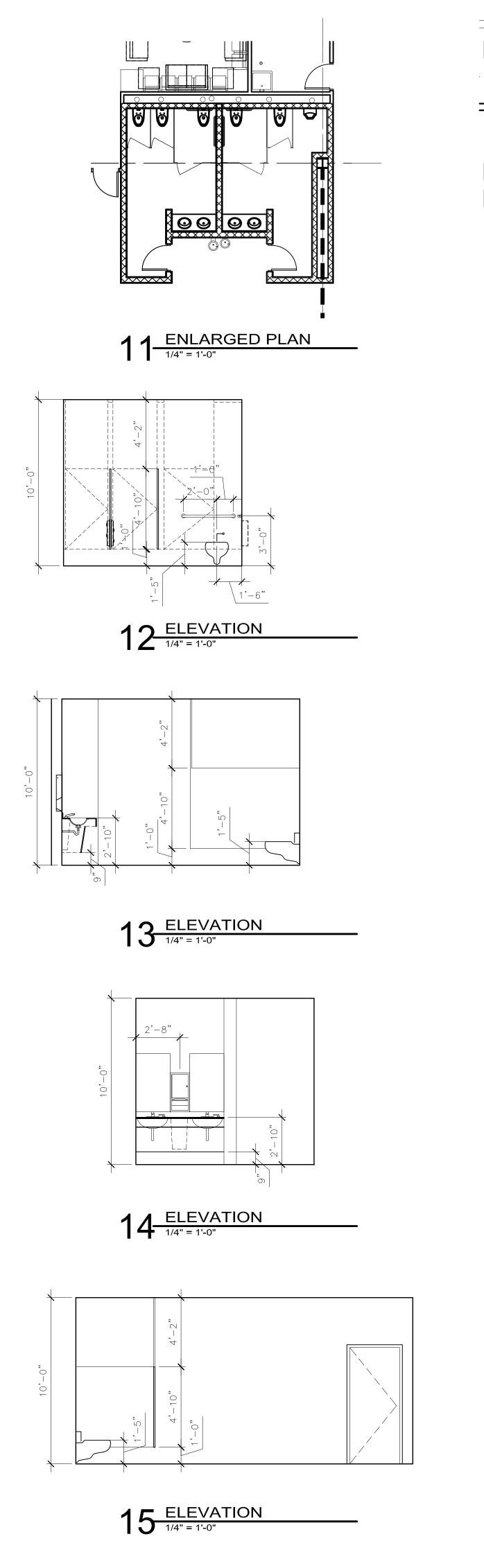


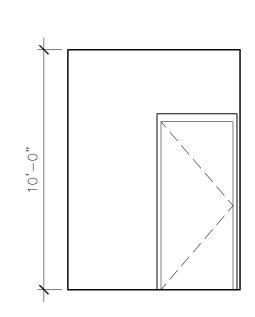
<b>RS</b> IMPROVING YOUR	NORLD
 Bounoldo Smith and Li	
Reynolds, Smith and H	lis, inc.
4525 Airport Approach Re Duirth, Minneeota 55	5 800 A B11
218-722-1227 Fex: 218-72	2-1052
DULUTH AIRPOR AUTHORITY	
DULUTH INTERNATION/ AIRPORT DULUTH, MN	
NEW PASSENG Terminal	ER
CONSULTANTS	
Interior Architects: SJA ARCHITECTS	
11 E Superior Street Suite 340, Duluth TEL: (218) 724-8578 / FAX: (218) 72	
Structural Engineers:	
MBJ CONSULTING E 501 Lake Avenue South, Suite 300, Dulu	th MN 55802
TEL: (218) 722-1056 / FAX: (218) 72	22-9306
M/E/P/FP Engineers: <b>COSENTINI ASSOCIATE</b> 1 South Wacker Drive, 37th Floor, Chica TEL: (312) 201-7408 / FAX: (312) 2	go IL 60606
Baggage Handling Systems Consu	
BNP ASSOCIATES II 101 East Ridge Office Park, Suite 103, Dan TEL: (203) 792-3000 / EAX: (203) 70	bury CT 06810
TEL: (203) 792-3000 / FAX: (203) 79	92-4900
APPOLD DESIGN	
2432 East First Street, Duluth MN TEL: (218) 591-5079	55812
ARCHITECTURAL CERTIFICATIO	
specifications or report was prepar or under my direct supervision and	ed by me
a duly licensed Professional Archit the laws of the State of Minnesota.	
Print Name: Mark Ip	
10 1	
Signature:	
Date: 06-03-10 Reg. No.: 4	6001
REVISIONS	
NO.         DESCRIPTION           1         ADDENDUM 1	6.11.10
CONFORMANCE SET	7.12.10
3 PERMIT REVISIONS BUILDING PERMIT	7.23.10 8.16.10
DATE ISSUED: 08-16-10 Reviewed by: SBS/TC	
DRAWN BY: MI	
DESIGNED BY, SBS/TC	
AEP PROJECT NUMB 213-1882-091	er
© 2010 REYNOLDS, SMITH AND HIL	ls Inc.
SHEET TITLE	
<b>INTERIOR SYST</b>	EMS
RESTROOMS	<b>}</b>
SHEET NUMBER	
<b>A610</b>	
BUILDING	
PERMIT	

Drawing: t:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A610 Interior System Sheet - Restrooms.dwg Plotted on: 8/13/2010 1:42 PM



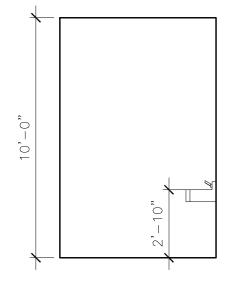
IMP	RSE ROVING YOUR	NORLD
452		d, Sto A 811
	DULUTH AIRPOR AUTHORITY	NT T
	DULUTH INTERNATION AIRPORT DULUTH, MN	
	NEW PASSENG Terminal	ier
	CONSULTANTS	
	Interior Architects: <b>SJA ARCHITECT</b> Superior Street Suite 340, Duluth EL: (218) 724-8578 / FAX: (218) 7	MN 55802
501 La	Structural Engineers: <b>MBJ CONSULTING E</b> ke Avenue South, Suite 300, Dulu EL: (218) 722-1056 / FAX: (218) 7	uth MN 55802
1 Sou T	M/E/P/FP Engineers: SENTINI ASSOCIATI th Wacker Drive, 37th Floor, Chica EL: (312) 201-7408 / FAX: (312) 2	ago IL 60606 201-0031
101 East	Baggage Handling Systems Cons BNP ASSOCIATES I Ridge Office Park, Suite 103, Dar EL: (203) 792-3000 / FAX: (203) 7 Landscaping Consultants:	<b>NC.</b> nbury CT 06810
	<b>APPOLD DESIGN</b> 2432 East First Street, Duluth MN TEL: (218) 591-5079	-
I here speci or un a dul <u>y</u> the la	HITECTURAL CERTIFICATIOn by certify that the architectur fications or report was prepared der my direct supervision and y licensed Professional Archite was of the State of Minnesota Name: Mark Ip	al plans, red by me t that I am tect under
Date:	06-03-10 Reg. No.:	46001
	<u></u>	
MO.	/ISIONS DESCRIPTION	DATE
1	ADDENDUM 1	6.11.10
3	CONFORMANCE SET PERMIT REVISIONS	7.12.10
	BUILDING PERMIT	8.16.10
		├─── ┃
DAT	E <b>ISSUED.</b> 08-16-10	
	EWED BY, SBS/TC	
	<b>Gred by,</b> Mi Gred by, SBS/TC	
	213-1882-091	
IN	TERIOR SYST RESTROOMS	
	SHEET NUMBER	
	A611	
	BUILDING PERMIT	

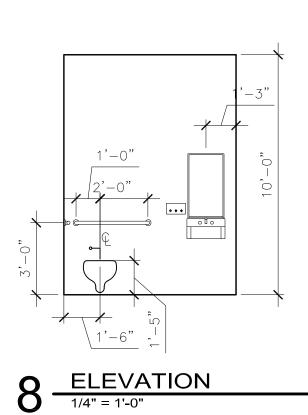


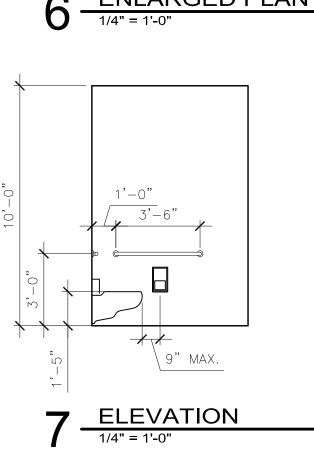


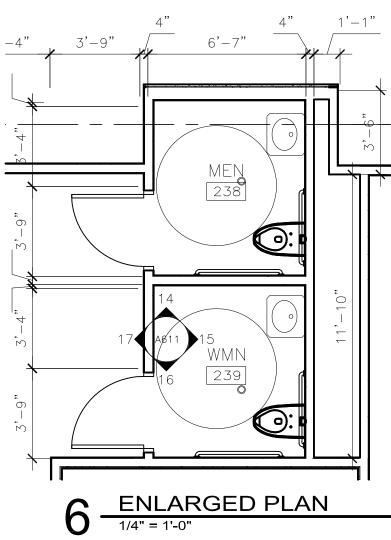
**10** ELEVATION 1/4" = 1'-0"

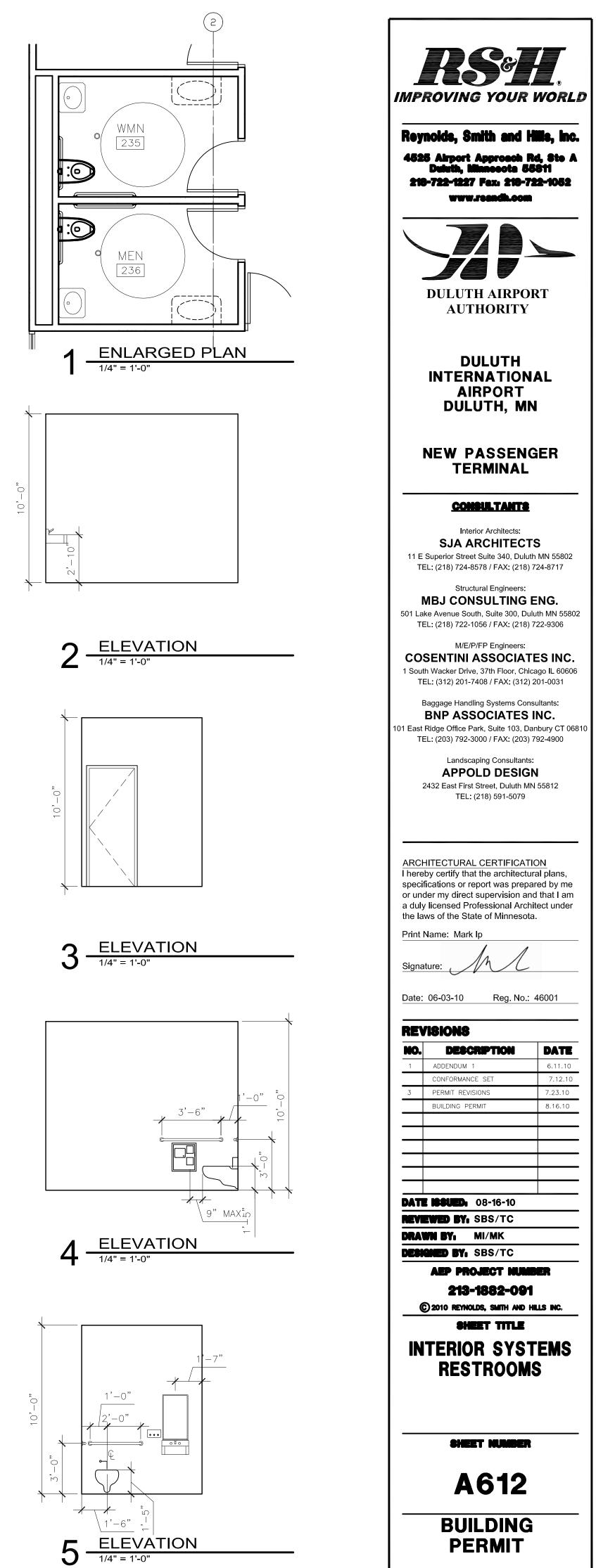




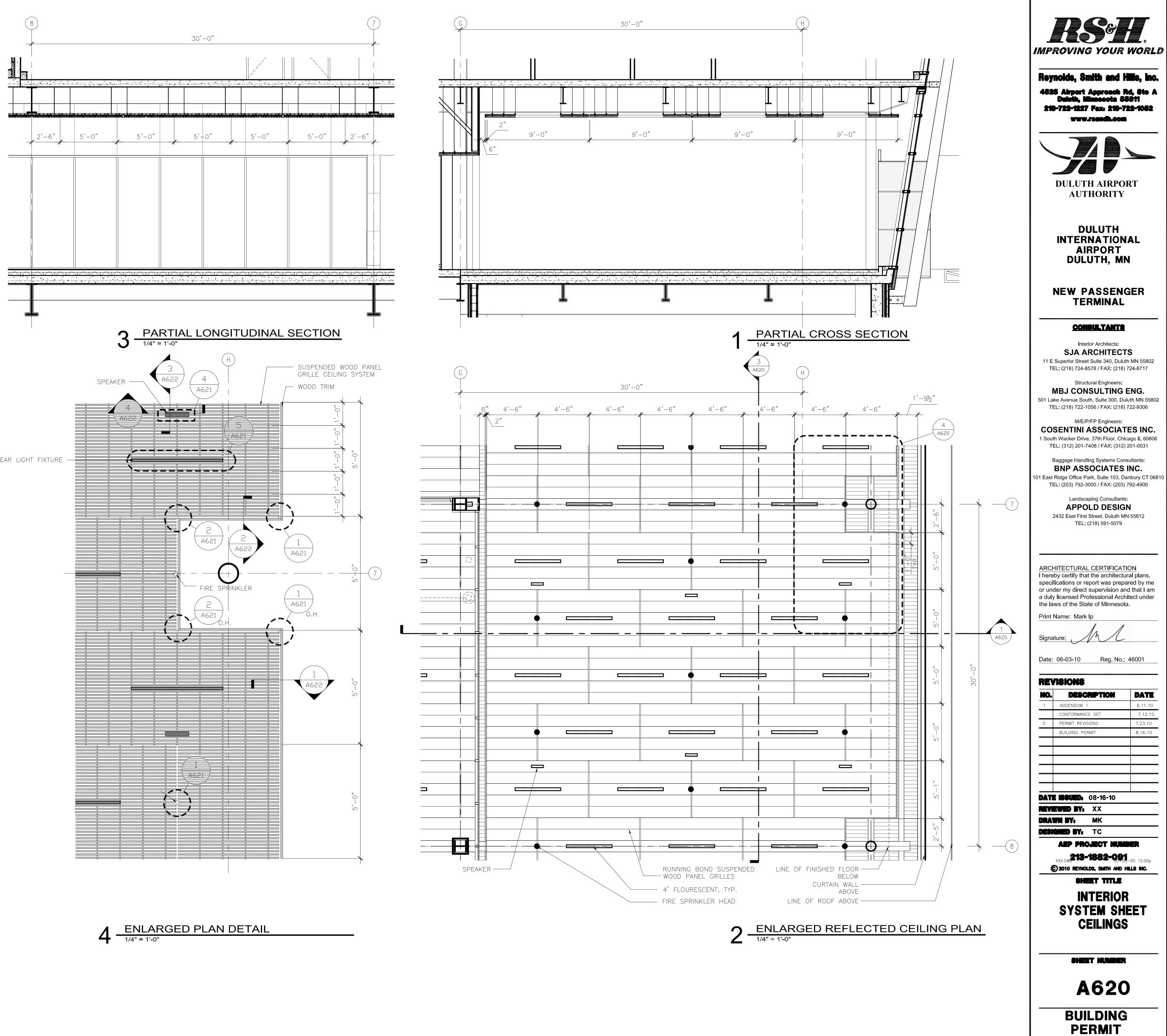




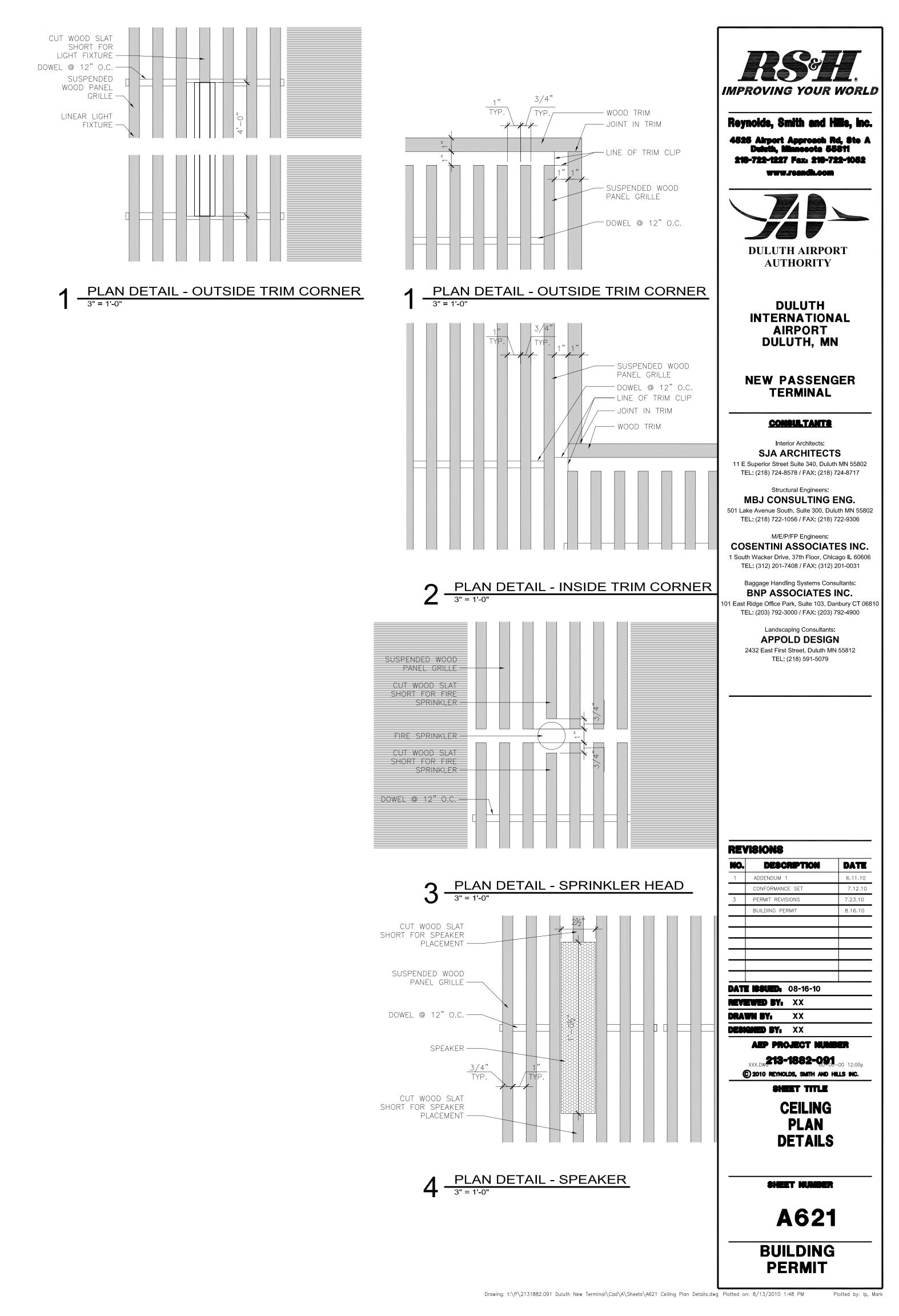


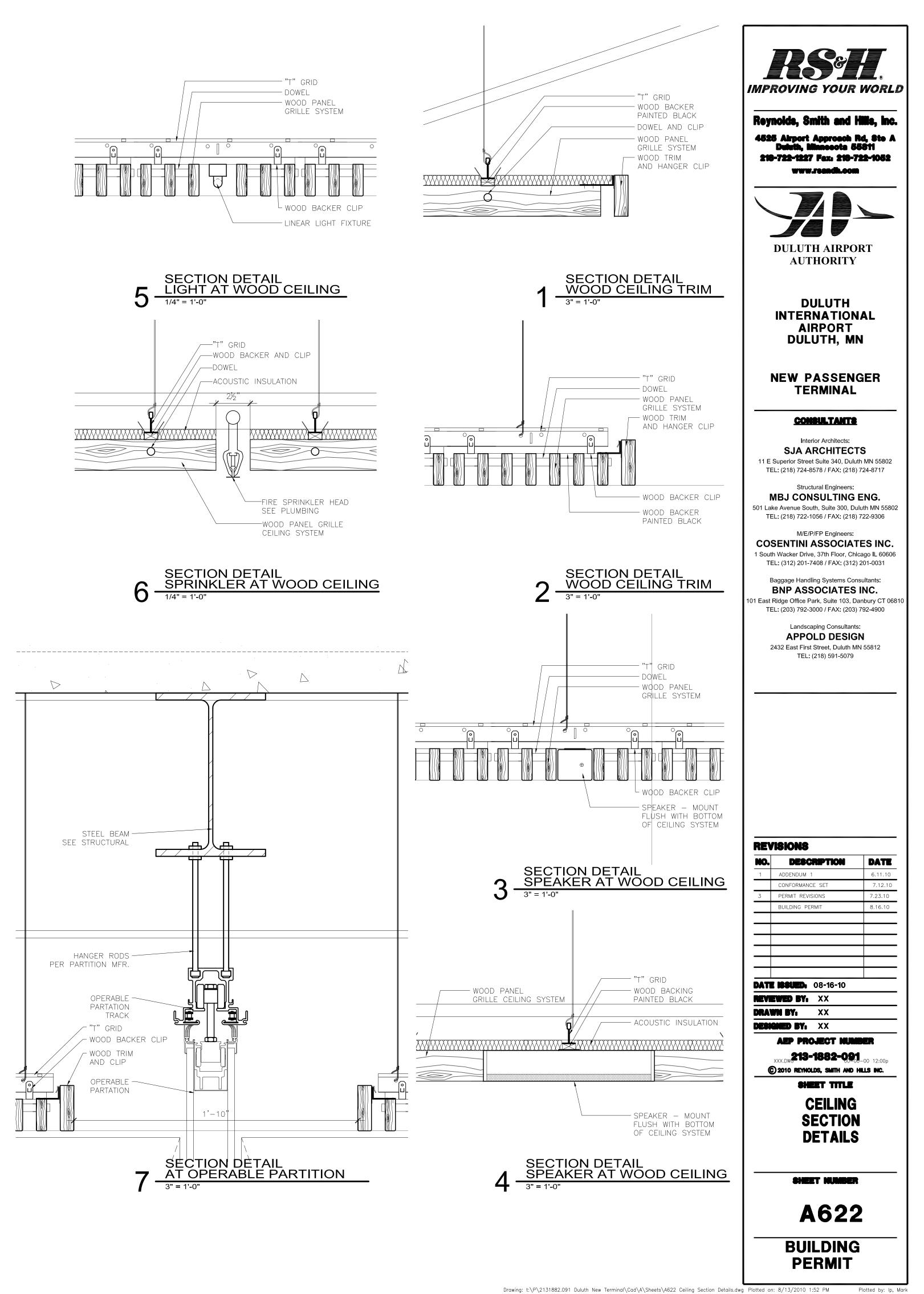


Drawing: t:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A612 Interior System Sheet - Restrooms.dwg Plotted on: 8/13/2010 1:44 PM



LINEAR LIGHT FIXTURE -





	LE - FIRST	FLOOR												DOOR SCHE
	Opening	-	Door			Frame			Details	-				
	Width	Height	Thick	Туре	Mat.	Туре	Mat.	Rating	Head	Sill	Jamb	Hdwr. Group		Door Numb
100A	6'-10"	7'-0"	1 3/4"				ALUM						2	203A
100B	6'-10"	7'-0"	1 3/4"				ALUM						2	203B
100C	6'-10"	7'-0"	1 3/4"				ALUM						2	204A
100D 101A	6'-10" 6'-10"	7'-0" 7'-0"	1 3/4" 1 3/4"				ALUM ALUM						2	205A 208A
101A 101B	6'-10"	7'-0"	1 3/4"				ALUM						2	208A 208B
101D	6'-10"	7'-0"	1 3/4"				ALUM						2	208B
101D	6'-10"	7'-0"	1 3/4"				ALUM						2	210A
106A	3'-0"	7'-0"	2"				H.M.							211A
107A	3'-0"	7'-0"	2"				H.M.							212A
108A	3'-0"	7'-0"	2"				H.M.							213A
109A	3'-0"	7'-0"	2"				H.M.							214A
110A	3'-0"	7'-0"	2"				H.M.							214B
111A	3'-0"	7'-0"	2"				H.M.							215A
112A	3'-0"	7'-0"	2"				H.M.							215B
113A	3'-0"	7'-0"	2"				H.M.							215C
114A 115A	3'-0" 3'-0"	7'-0" 7'-0"	2" 2"				H.M. H.M.							215D
115A 117A	3-0 3'-4"	7'-0	2 1 3/4"				н.м. Н.М.						1	217A
117A 117B	5'-0"	7'-0"	1 3/4"				H.M.						1	219A
120A	3'-4"	7'-0"	1 3/4"				H.M.						1	219B 219C
120B	3'-0"	7'-0"	2"				H.M.						1	219C
122A	3'-0"	7'-0"	2"				H.M.					1		210E
123A	3'-0"	7'-0"	2"				H.M.							219G
123B	3'-0"	7'-0"	2"				H.M.							219H
124A	3'-0"	7'-0"	2"				H.M.							2191
125A	3'-0"	7'-0"	2"				H.M.							223A
125B	3'-0"	7'-0"	2"				H.M.							230A
126A	9'-0"	7'-0"	1"				H.M.							231A
126B 126C	3'-0" 3'-6"	7'-0" 7'-0"	1 3/4" 2"				H.M. H.M.					+	1	232A
126C 127A	3'-6" 3'-0"	7'-0" 7'-0"	2" 2"				н.м. Н.М.					+		232B
127A 127B	3'-0"	7-0	2"				H.M.							233B
127B	6'-0"	7'-0"	1 3/4"				H.M.					1		234A 234C
129A	3'-0"	7'-0"	1 3/4"				H.M.							234C
130A	3'-0"	7'-0"	1 3/4"				H.M.							235A 236A
131A	3'-0"	7'-0"	2"				H.M.							230A 237A
131B	3'-0"	7'-0"	2"				H.M.							237A
133A	3'-0"	7'-0"	2"				H.M.						1	237C
133C 133D	6'-0"	7'-0" 7'-0"	1 3/4"				H.M. H.M.					<b> </b>	1	237D
133D 134A	3'-0" 2'-8"	7-0	1 3/4" 2"				H.M. H.M.						1	238A
134A 135A	2-0 2'-8"	7'-0	2"				H.M.							239A
137A	2-0 3'-0"	7'-0"	2"				H.M.							240A
138A	3'-0"	7'-0"	2"				H.M.							241A
140A	3'-0"	7'-0"	2"				H.M.						1	242A 245A
140B	6'-0"	7'-0"	1 3/4"				H.M.						1	249A
141A	3'-0"	7'-0"	2"				H.M.							249A 250A
142A	3'-0"	7'-0"	2"				H.M.							250B
143A	3'-0"	7'-0"	2"				H.M.							251A
144A	3'-0"	7'-0"	2"				H.M.							290A
145A	3'-0"	7'-0"	2"				H.M.							291A
146A 148A	3'-0" 3'-0"	7'-0" 7'-0"	2" 2"				H.M. H.M.							
148A 149A	3'-0"	7'-0"	1 3/4"				H.M.						1	
149B	4'-0"	6'-8"	1 3/4"				H.M.						1	Remarks
150A	3'-6"	7'-0"	2"				H.M.						1	1
151A	3'-0"	7'-0"	2"				H.M.							2
153A	3'-0"	7'-0"	2"				H.M.						1	3
155B	9'-6"	7'-0"	1 3/4"				H.M.						1	4
156A	3'-0"	7'-0"	2"				H.M.							5
157A	3'-0"	7'-0"	2"				H.M.							0
158A	3'-0"	7'-0"	2" 1"				H.M.						0	
159A 159B	21'-3" 3'-0"	7'-0" 7'-0"	1" 2"				H.M. H.M.						2	
160A	3'-0"	7'-0"	2"				H.M.						1	2-
161A	3'-0"	7'-0"	1 3/4"				H.M.							
162A	3'-0"	7'-0"	2"				H.M.							
163A	3'-0"	7'-0"	2"				H.M.							
164A	3'-0"	7'-0"	2"				H.M.							
165A	3'-0"	7'-0"	1 3/4"				H.M.							
166A	3'-0"	7'-0"	2"				H.M.					ļ	ļ	
166A	3'-0"	7'-0"	2"				H.M.						ļ	
168A 169A	3'-0" 3'-0"	7'-0" 7'-0"	2" 2"				H.M. H.M.						<b> </b>	
170A	3-0 3'-0"	7-0	2"				H.M.							
170A 171A	3'-0"	7'-0"	2"				H.M.					1		
172A	3'-0"	7'-0"	2"				H.M.					1		
173A	3'-0"	7'-0"	2"				H.M.							
174A	3'-0"	7'-0"	2"				H.M.							
175A	3'-0"	7'-0"	1 3/4"				H.M.							
176A	6'-0"	7'-0"	1 3/4"				H.M.							
176B	3'-0"	7'-0"	2"				H.M.						1	
176C	16'-0"	7'-0"	1 3/4"				H.M.						ļ	
176D	16'-0" 3'-0"	7'-0"	1 3/4"				H.M.							
176E 176F	3'-0" 3'-0"	7'-0" 7'-0"	2" 2"				H.M. H.M.						1	
176F 178A	3'-0" 3'-0"	7'-0" 7'-0"	2" 2"				н.м. Н.М.	1				+		
178A 178B	3-0	7-0	2 1 3/4"				H.M. H.M.							
178C	3'-0"	7'-0"	2"				H.M.					1		
1700 179A	3'-0"	7'-0"	2"				H.M.					1		
	14'-0"	7'-0"	1 3/4"				H.M.							
179B	3'-0"	7'-0"	2"				H.M.							
179C	3'-0"	7'-0"	2"				H.M.							
179C 180A		7'-0"	2"				H.M.							
179C 180A 181A	3'-0"	7'-0"	2"				H.M.					ļ		
179C 180A 181A 183A	2'-8"						H.M.							
179C 180A 181A 183A 184A	2'-8" 2'-8"	7'-0"	2"				H.M.					1	1	
179C 180A 181A 183A 184A 190A	2'-8" 2'-8" 3'-0"	7'-0" 7'-0"	2"										4	
179C 180A 181A 183A 184A 190A 190B	2'-8" 2'-8" 3'-0" 3'-4"	7'-0" 7'-0" 7'-0"	2" 2"				Н.М. Н М						1	
179C 180A 181A 183A 184A 190A 190B 191A	2'-8" 2'-8" 3'-0" 3'-4" 3'-0"	7'-0" 7'-0" 7'-0" 7'-0"	2" 2" 1 3/4"				H.M.	1						
179C 180A 181A 183A 184A 190A 190B 191A 193A	2'-8" 2'-8" 3'-0" 3'-4"	7'-0" 7'-0" 7'-0"	2" 2"										1 1	
179C 180A 181A 183A 184A 190A 190B 191A	2'-8" 2'-8" 3'-0" 3'-4" 3'-0" 3'-0"	7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	2" 2" 1 3/4"	  			H.M.	1						
179C 180A 181A 183A 184A 190A 190B 191A 193A emarks 1 2	2'-8" 2'-8" 3'-0" 3'-4" 3'-0" 3'-0" Provide P	7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	2" 2" 1 3/4" 1 3/4"	   1008.1.9			H.M.	1						
179C 180A 181A 183A 183A 184A 190A 190B 191A 193A emarks 1 2 3	2'-8" 2'-8" 3'-0" 3'-4" 3'-0" 3'-0" Provide P	7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	2" 2" 1 3/4" 1 3/4" are per IBC	   1008.1.9			H.M.	1						
179C 180A 181A 183A 184A 190A 190B 191A 193A emarks 1 2	2'-8" 2'-8" 3'-0" 3'-4" 3'-0" 3'-0" Provide P	7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	2" 2" 1 3/4" 1 3/4" are per IBC	   1008.1.9			H.M.	1						

## 3 DOOR SCHEDULE - FIRST FLOOR

DOOR SCHEDULE - FIRST FLOOR

DOOR SCH

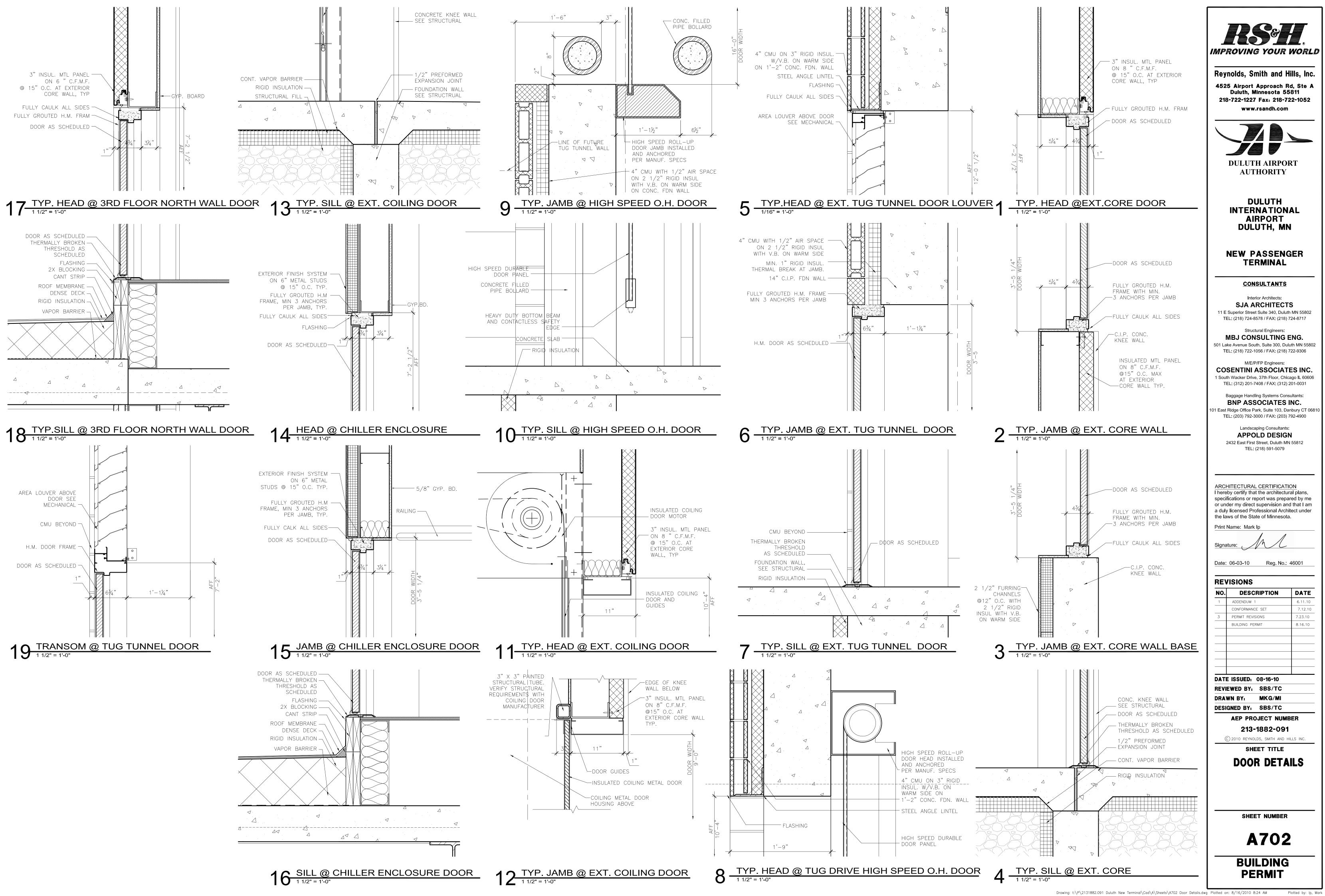
		ID FLOOR											-	DOOR SCHEDUL		FLOOR	1									
Ор	ening		Door			Frame			Details						Opening		Door			Frame		_	Details			
mber Wie	dth	Height	Thick	Туре	Mat.	Туре	Mat.	Rating	Head	Sill	Jamb	Hdwr. Group	Remarks	Door Number	Width	Height	Thick	Туре	Mat.	Туре	Mat.	Rating	Head	Sill	Jamb	Hdwr. Group Rem
A 3'-0	"	7'-0"	1 3/4"				H.M.						1		4'-6"	7'-0"	1 3/4"				H.M.					
B 3'-0	n	7'-0"	1 3/4"				H.M.						1		4'-6"	7'-0"	1 3/4"				H.M.					
A 3'-0		7'-0"	1 3/4"				H.M.								4'-6"	7'-0"	1 3/4"				H.M.					
A 3'-0		7'-0"	1 3/4"				H.M.								4'-6"	7'-0"	1 3/4"				<u> </u>					
A 3'-0	"	7'-0"	1 3/4"				H.M.						1		3'-0"	7'-0"	2"				<u> </u>					
B 9'-9	3/4"	7'-0"	1"				H.M.						2		4'-0"	7'-0"	1 3/4"				<u> </u>	1				
A 3'-0	n	7'-0"	1 3/4"				H.M.						1	304B	3'-0"	7'-0"	1 3/4"				<u> </u>	1				
A 3'-0	n	7'-0"	1 3/4"				H.M.								6'-0"	7'-0"	1 3/4"				<u> </u>					
A 3'-0	n	7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
A 3'-0	n	7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
۹ 3'-0	n	7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
A 30'-	0"	7'-0"	1"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
3 3'-0	"	7'-0"	1 3/4"				H.M.						1		3'-0"	7'-0"	2"				H.M.					
A 4'-3	"	7'-1"	1 3/4"										2		3'-0"	7'-0"	2"				<u> </u>					
3 4'-3	"	7'-1"	1 3/4"										2		3'-0"	7'-0"	2"				H.M.					
; 4'-3	"	7'-1"	1 3/4"									1	2		3'-0"	7'-0"	2"				H.M.					
4'-3	"	7'-1"	1 3/4"										2		3'-0"	7'-0"	2"				H.M.					
3'-5	"	7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				H.M.					
3'-0		7'-0"	1 3/4"				ALUM.						1		3'-0"	7'-0"	2"				H.M.					
3'-2	"	7'-0"	1 3/4"				H.M.						1		3'-0"	7'-0"	2"				<u> </u>					
<b>4'-6</b>		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				H.M.					
4'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				H.M.					
3'-0		7'-0"	1 3/4"				H.M.						1		5'-0"	7'-0"	1 1/4"				<u> </u>					
3'-6		7'-0"	1 3/4"				H.M.								6'-0"	7'-0"	1 3/4"				<u> </u>					
3'-6		7'-0"	1 3/4"				H.M.							318C	3'-0"	7'-0"	2"				H.M.					
3'-0		7'-0"	1 3/4"				H.M.						1		3'-0"	7'-0"	1 3/4"				H.M.					
3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
3'-0 3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
\ 3'-0		7'-0"	1 3/4"				H.M.						1		3'-0"	7'-0"	2"				<u> </u>					
3'-0		7'-0"	1 3/4"				ALUM.						1		3'-0"	7'-0"	2"				H.M.					
3'-0		7'-0"	1 3/4"				ALUM.								3'-0"	7'-0"	2"				H.M.					
<u>،</u> 3'-0	"	7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				H.M.					
3'-0		7'-0"	1 3/4"				H.M.						1		3'-0"	7'-0"	1 3/4"				H.M.					
3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	1 3/4"				<u>H.M.</u>					. <u></u>
3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				H.M.					
. 10'-		7'-0"	1 3/8"				ALUM.						2		6'-0"	7'-0"	1 3/4"				<u>H.M.</u>	1				
3'-0	"	7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
3'-0		7'-0"	1 3/4"				H.M.						1		6'-0"	7'-0"	1 3/4"				<u>H.M.</u>					
3'-0		7'-0"	1 3/4"				H.M.						1		6'-0"	7'-0"	1 3/4"				H.M.	1				
3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
<u>،</u> 3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				H.M.					
3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				H.M.					
3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u> </u>					
4'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	2"				<u>H.M.</u>	1				
3'-0		7'-0"	2"				H.M.								3'-0"	7'-0"	1 3/4"				<u> </u>	1				
3'-0		7'-0"	1 3/4"				H.M.								3'-0"	7'-0"	1 3/4"				H.M.	1				
3'-0		7'-0"	1 3/4"				H.M.							Remarks												
3'-0		7'-0"	1 3/4"				H.M.								Provide F	anic Hardw	vare per IB	C 1008.1.9								
3'-0		7'-0"	1 3/4"				H.M.						<u>├</u>	2												
3'-0 3'-0		7'-0"	1 3/4"				H.M.	1					1	3												
3'-0		7'-0"	1 3/4"				H.M.	1					1	4												
				<u> </u>									<u>                                     </u>	5												
			+		1	I							╂────┨	6												
1			1		1	<u> </u>				1	1	<u>.</u>	<u> </u>													
Dro	vido Po	nic Hardw	are per IBC	1008 1 0																						
			emergency														<b>-</b>	<b></b>								
	NUC DI	Jan-mway	energency	0.0015											OR S	SCHE		: - TH	IRD FI	LOOR	<u> </u>					
														•												

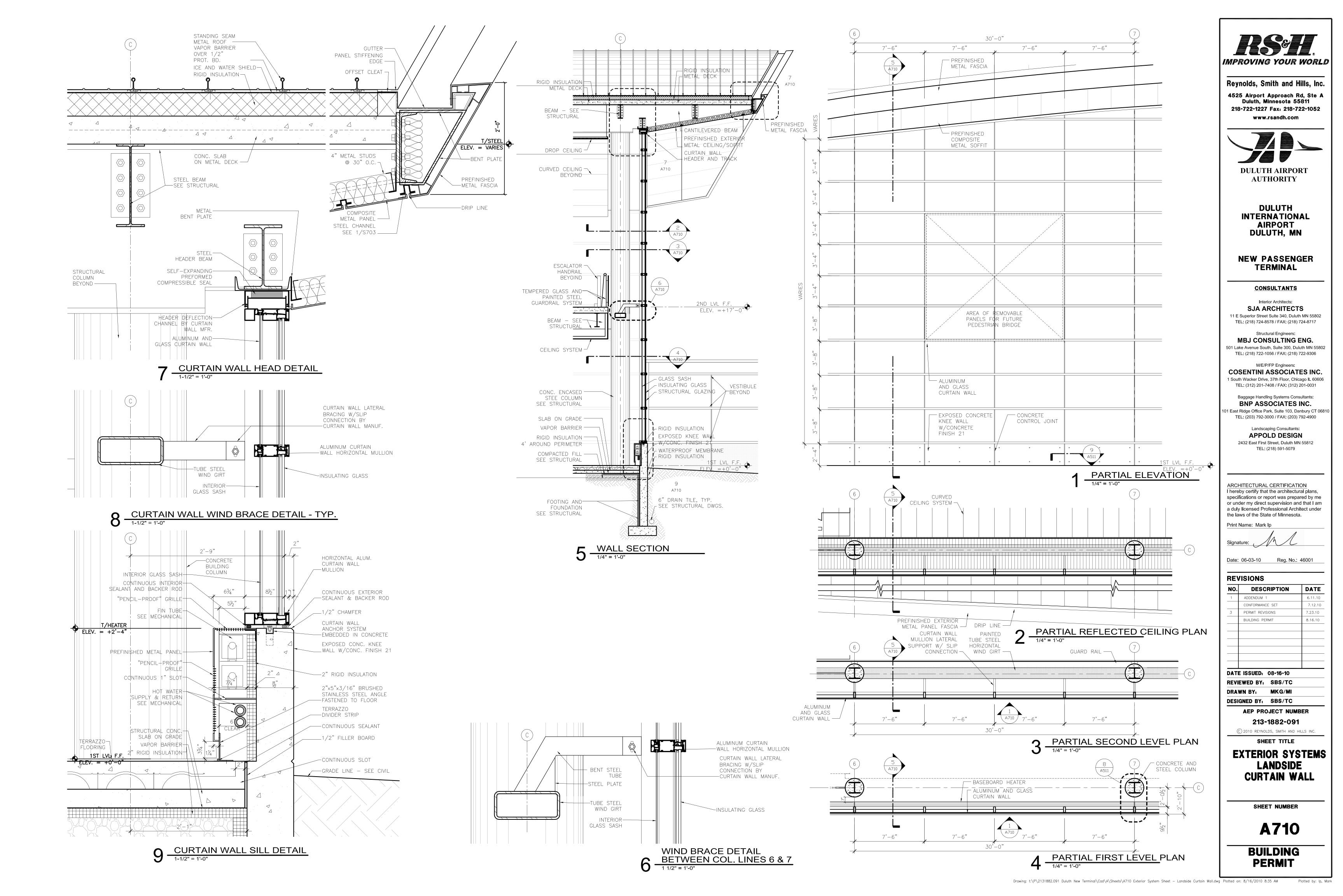
2 DOOR SCHEDULE - SECOND FLOOR

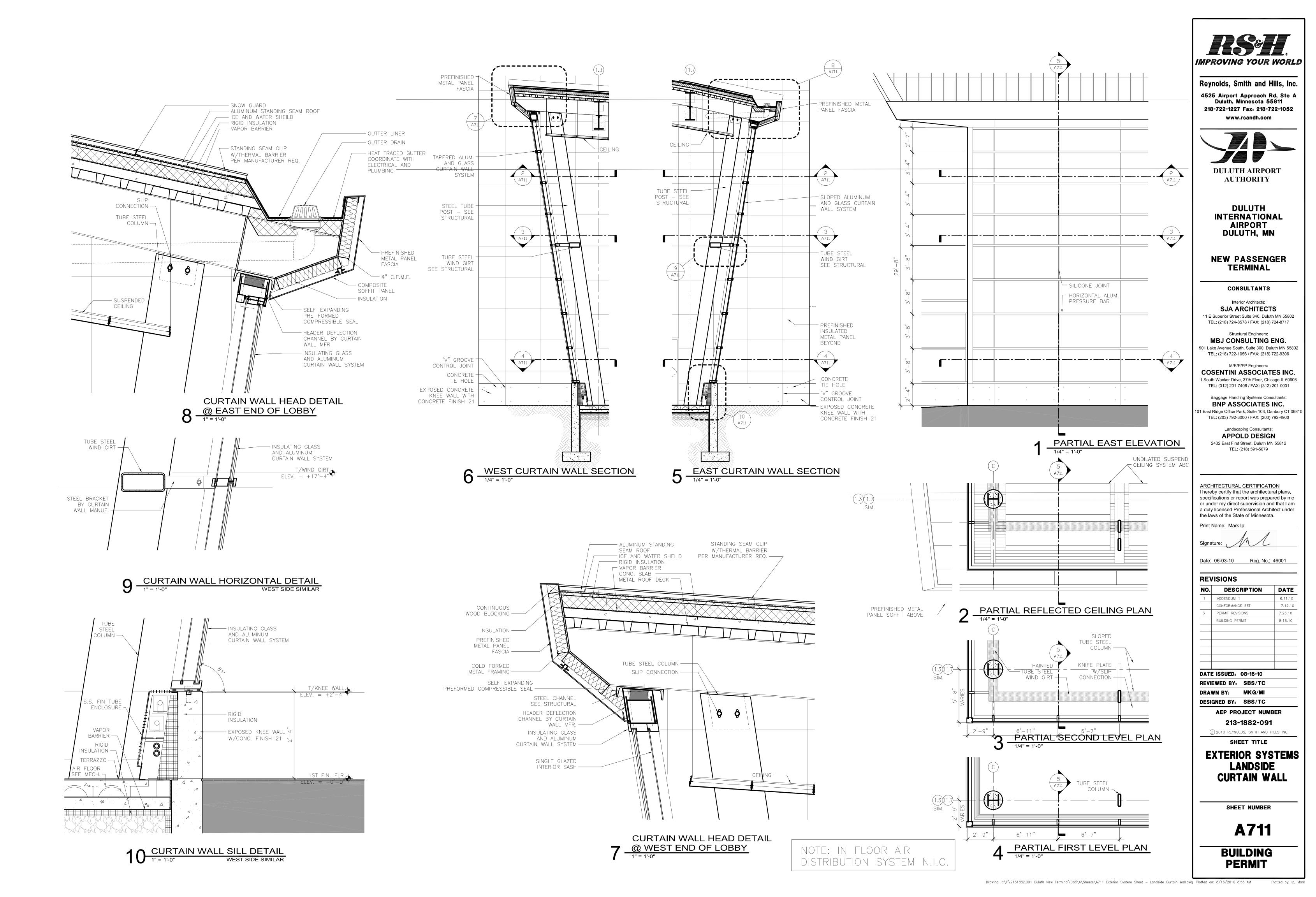
	noids, Smith and I 5 Airport Approach I Duisth, Minnecota 5 -722-1227 Fax: 218-7 www.rsandh.com	id, Ste / 5811
	DULUTH AIRPO AUTHORITY	RT
	DULUTH INTERNATION AIRPORT DULUTH, MI	
	NEW PASSEN Terminal	GER
	CONSULTANTS	
	Interior Architects: <b>SJA ARCHITEC1</b> Superior Street Suite 340, Dulu EL: (218) 724-8578 / FAX: (218)	th MN 55802
<b>5</b> 01 La	Structural Engineers: <b>MBJ CONSULTING</b> ke Avenue South, Suite 300, Du EL: (218) 722-1056 / FAX: (218)	ENG. Iuth MN 5580
CO: 1 Sout	M/E/P/FP Engineers: SENTINI ASSOCIAT h Wacker Drive, 37th Floor, Chi	ES INC.
E )1 East	EL: (312) 201-7408 / FAX: (312) Baggage Handling Systems Cor BNP ASSOCIATES Ridge Office Park, Suite 103, D	sultants: <b>INC.</b> anbury CT 06
	EL: (203) 792-3000 / FAX: (203) Landscaping Consultants <b>APPOLD DESIG</b> 2432 East First Street, Duluth M	s: N
I here specif or und a duly the la	HITECTURAL CERTIFICAT by certify that the architectu fications or report was prepa der my direct supervision ar / licensed Professional Arch ws of the State of Minnesot Name: Mark Ip	iral plans, ared by me nd that I am nitect under
Ciana	In A	
Signa		
Date:	06-03-10 Reg. No.:	46001
REV	<b>/1810N8</b>	
<b>NO.</b>	ADDENDUM 1	6.11.10
3	CONFORMANCE SET	7.12.10
ں 	BUILDING PERMIT	8.16.10
-+		
	<b>E ISSUED.</b> 08-16-10	
REVI	ENDEDIN 08-16-10 EWED BY: SBS/TC IM BY: MI	
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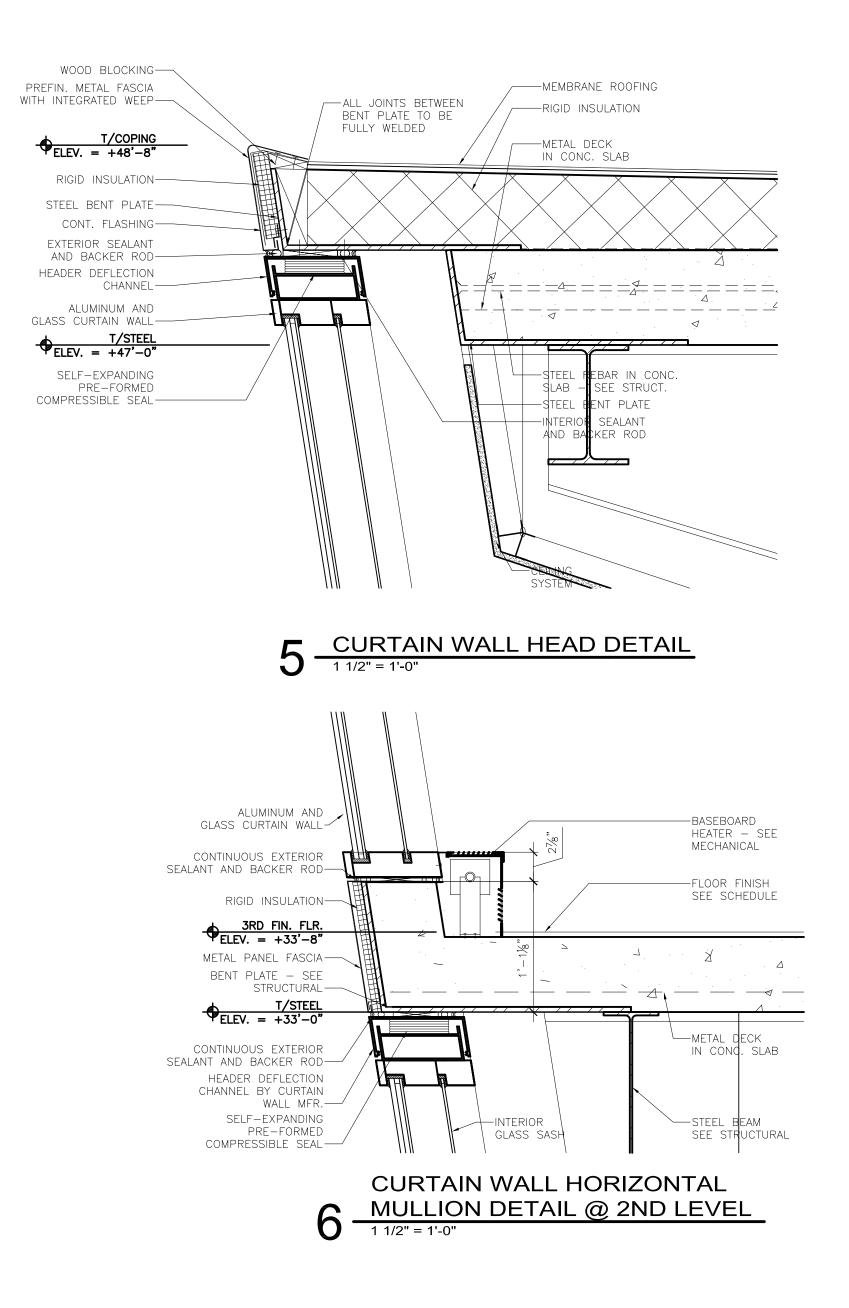
BUILDING PERMIT

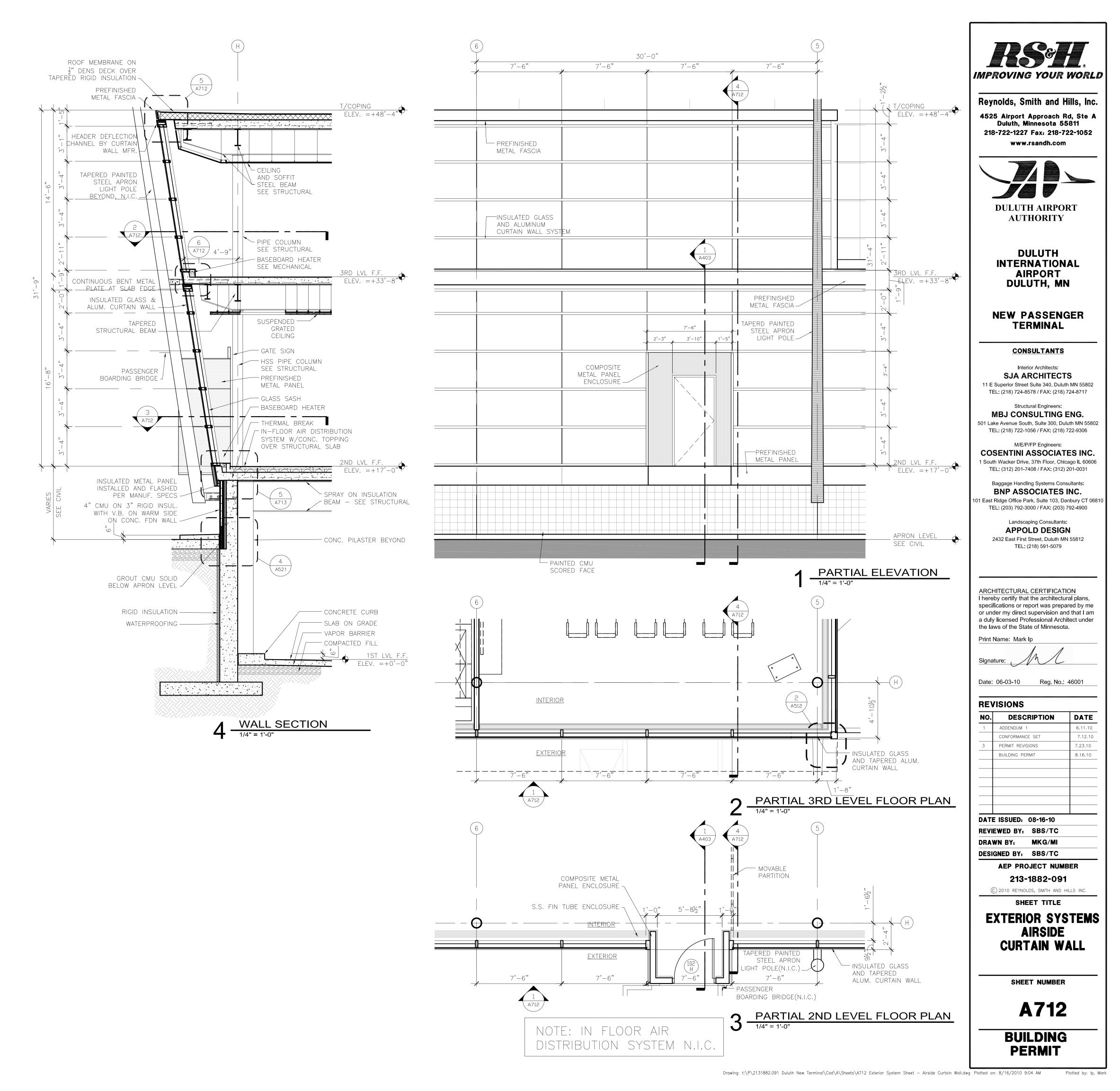
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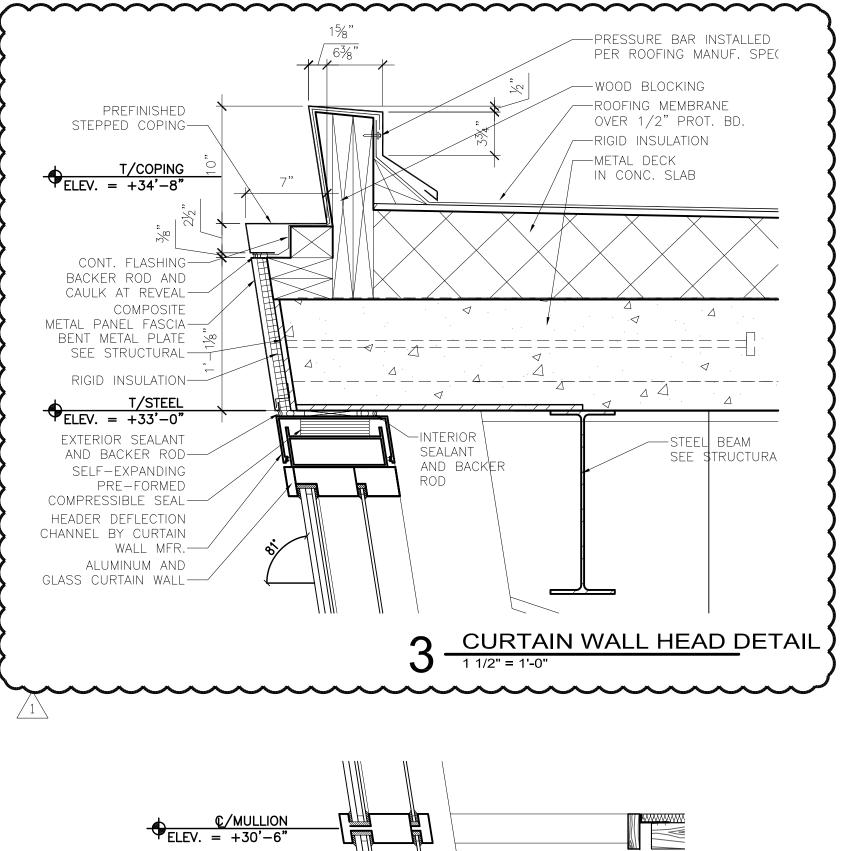


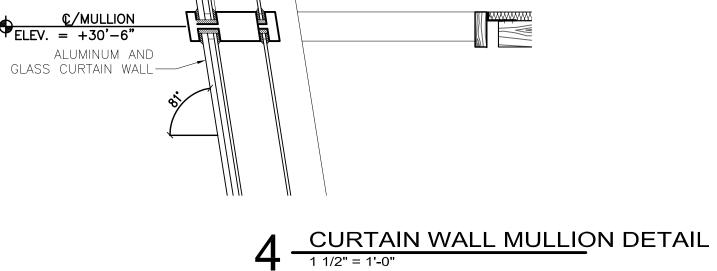


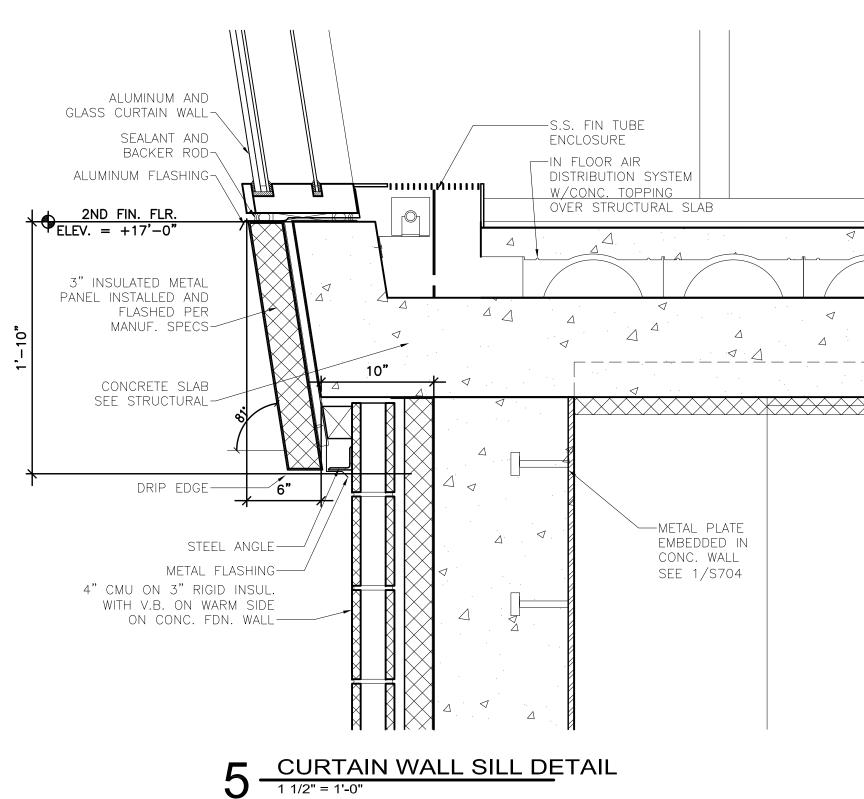


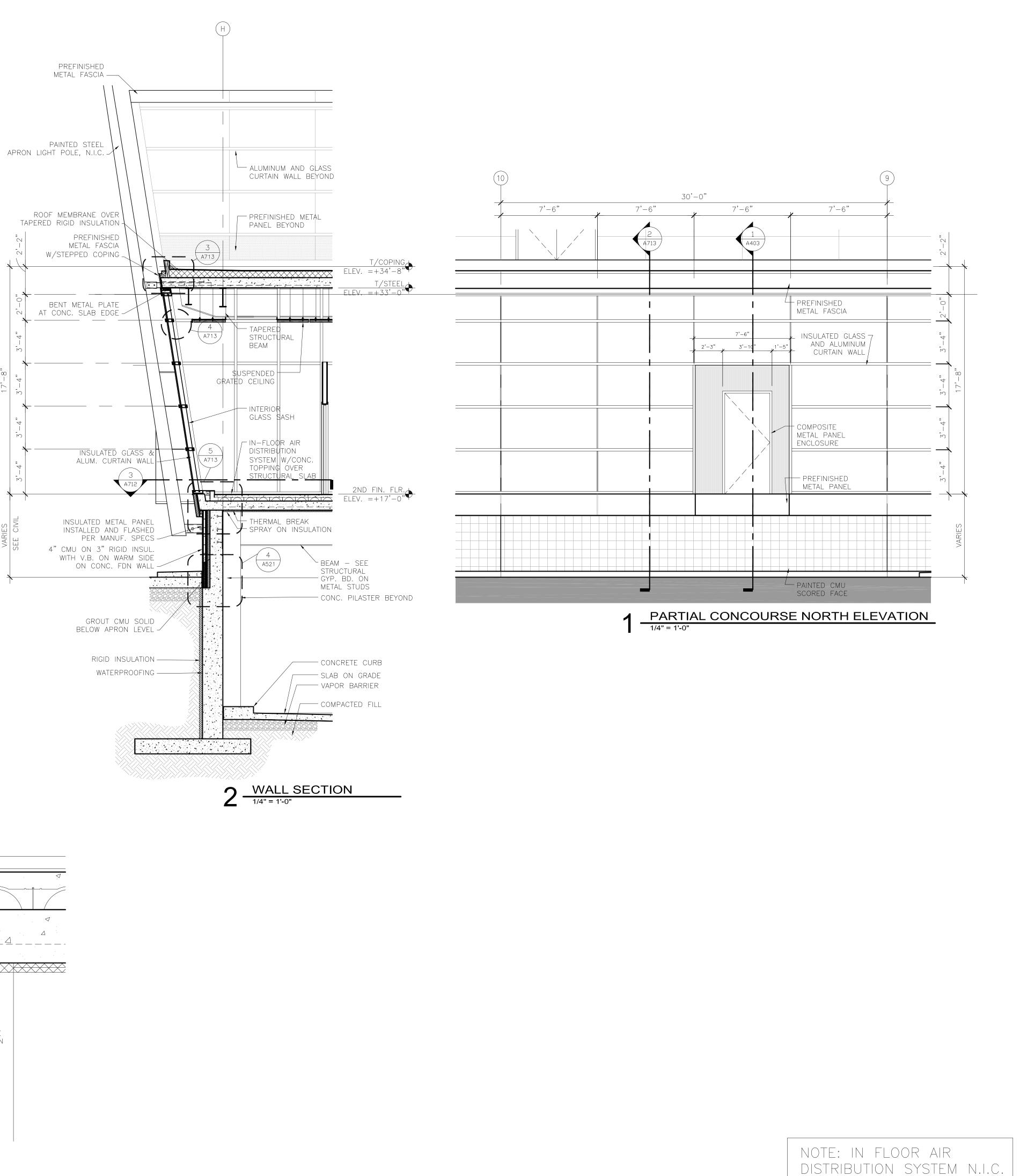






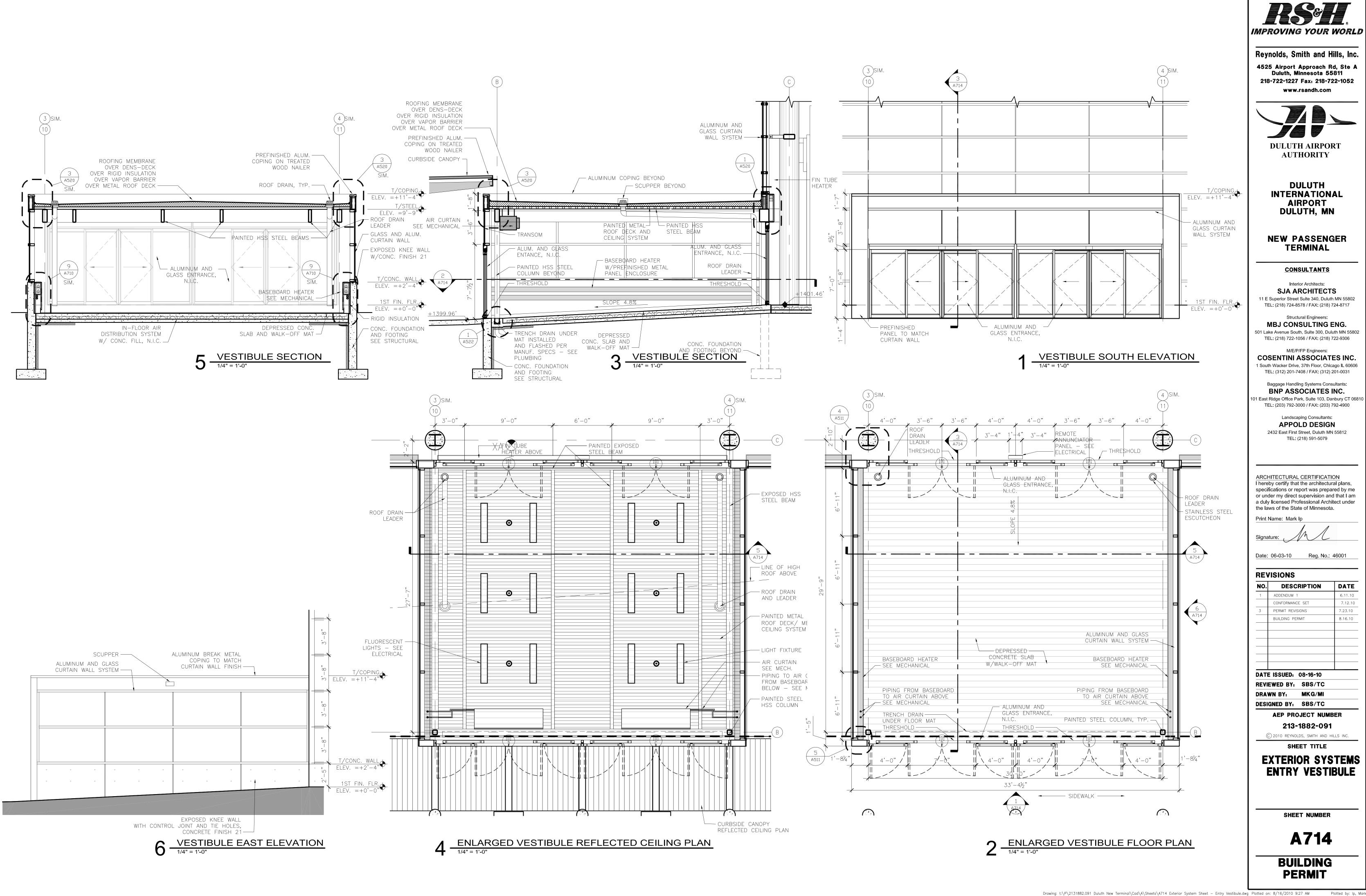


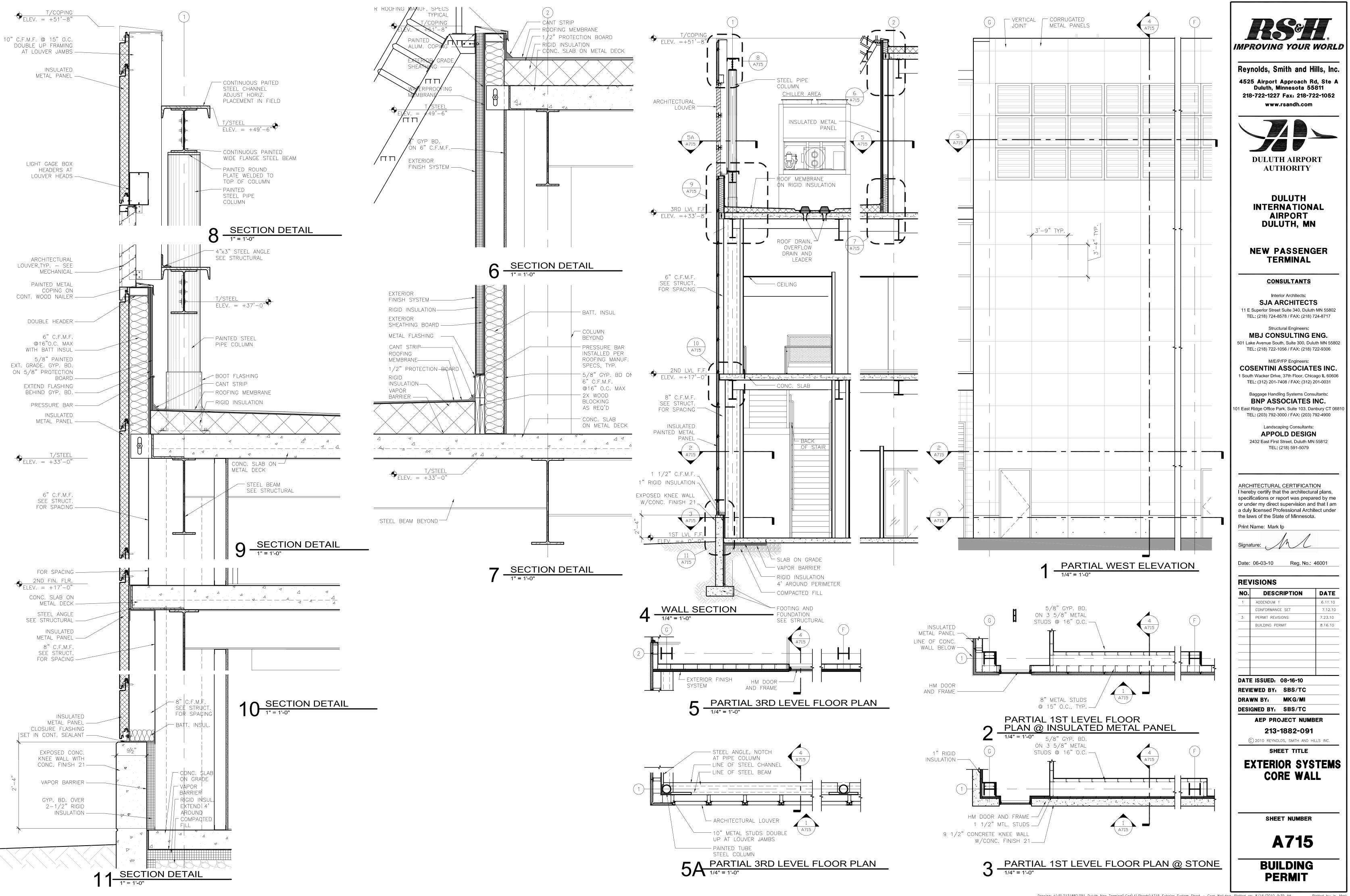




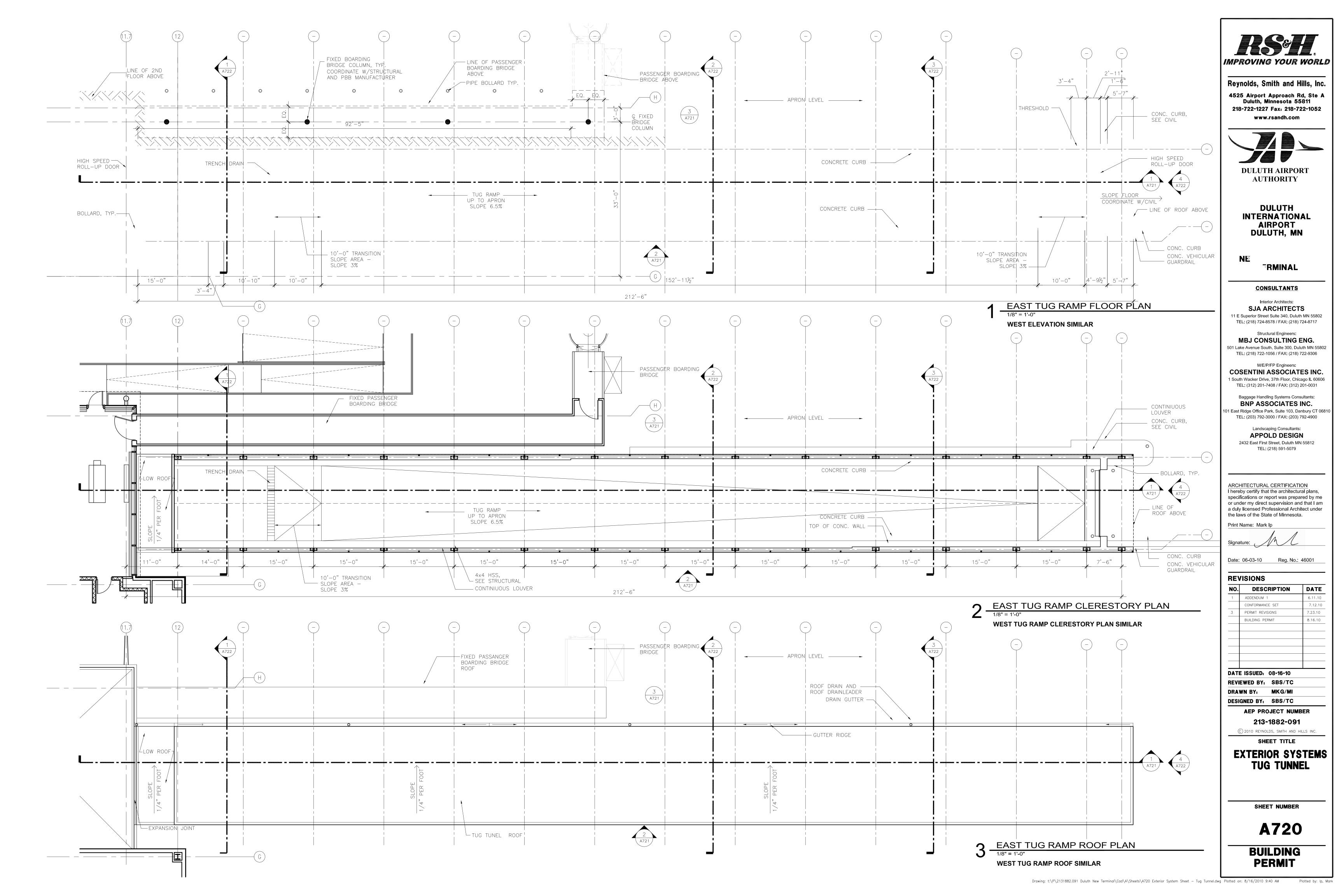


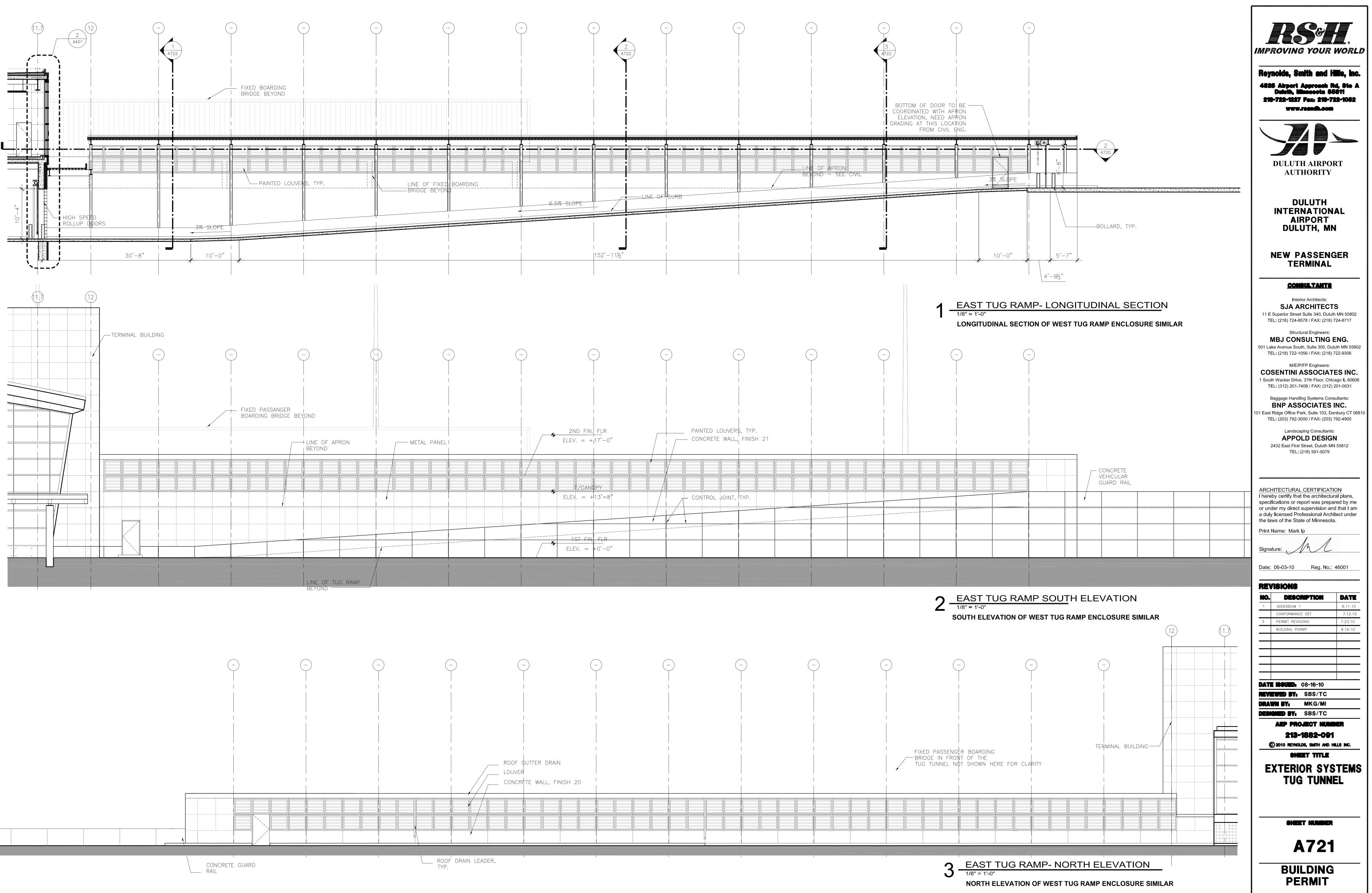
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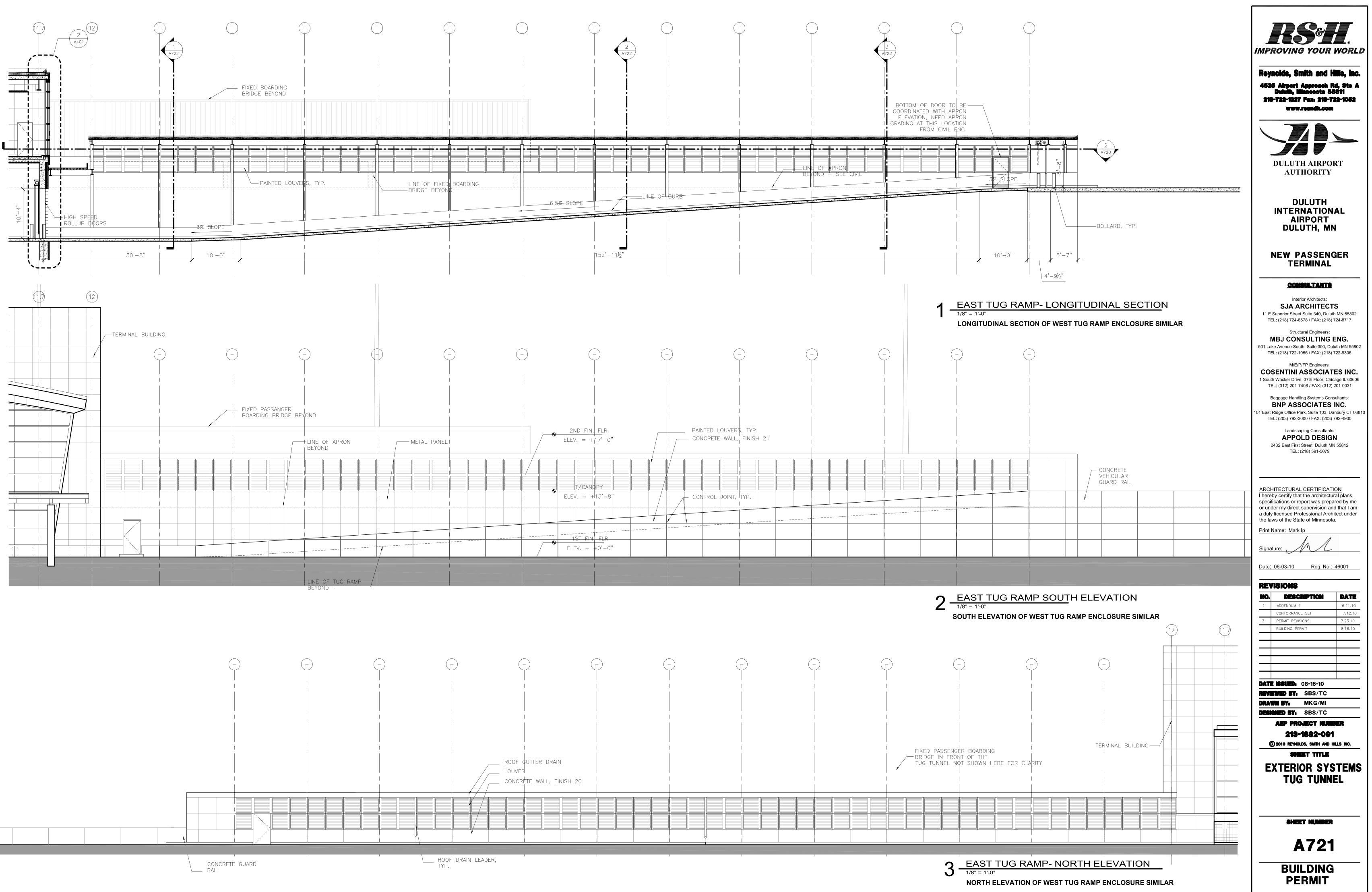
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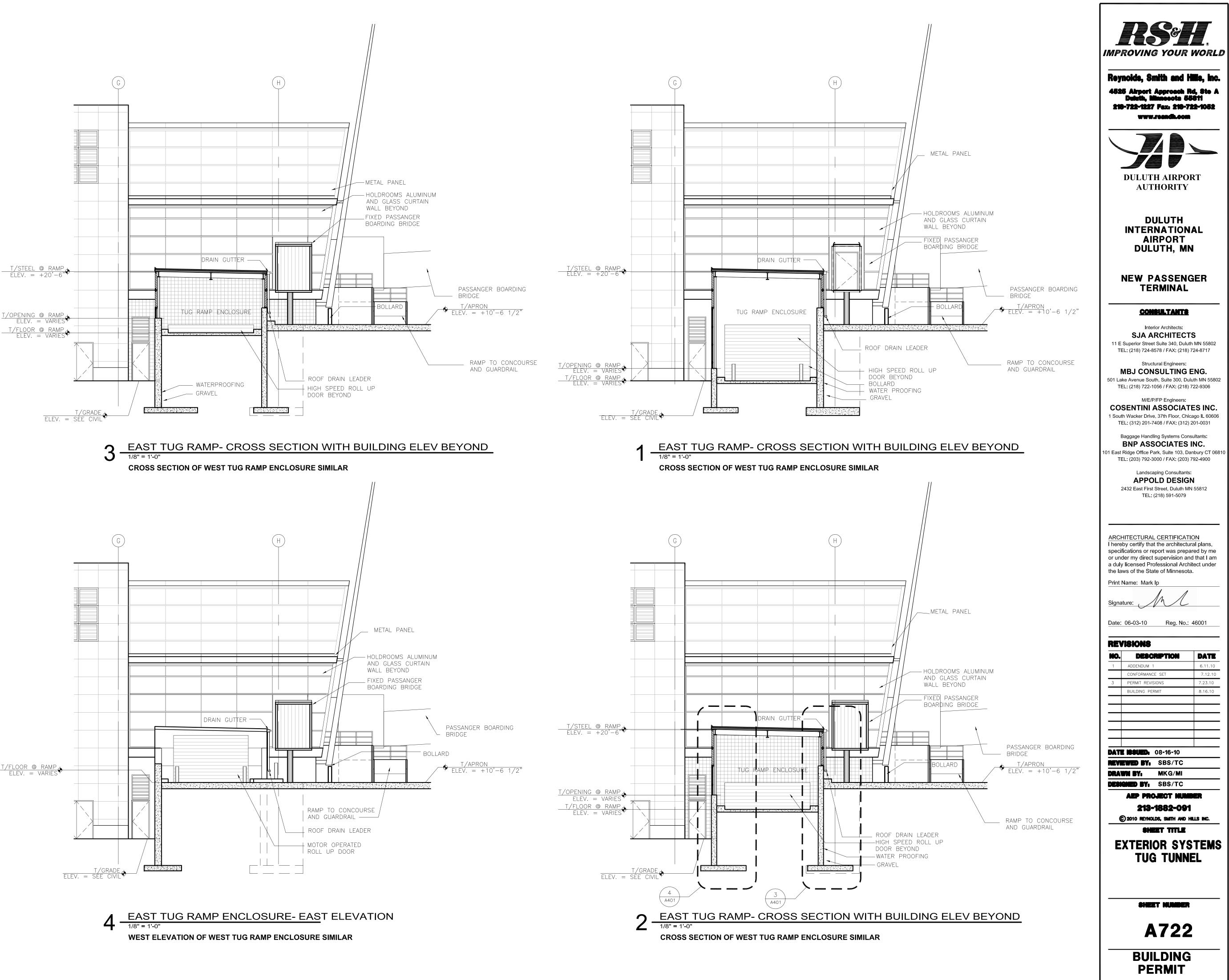


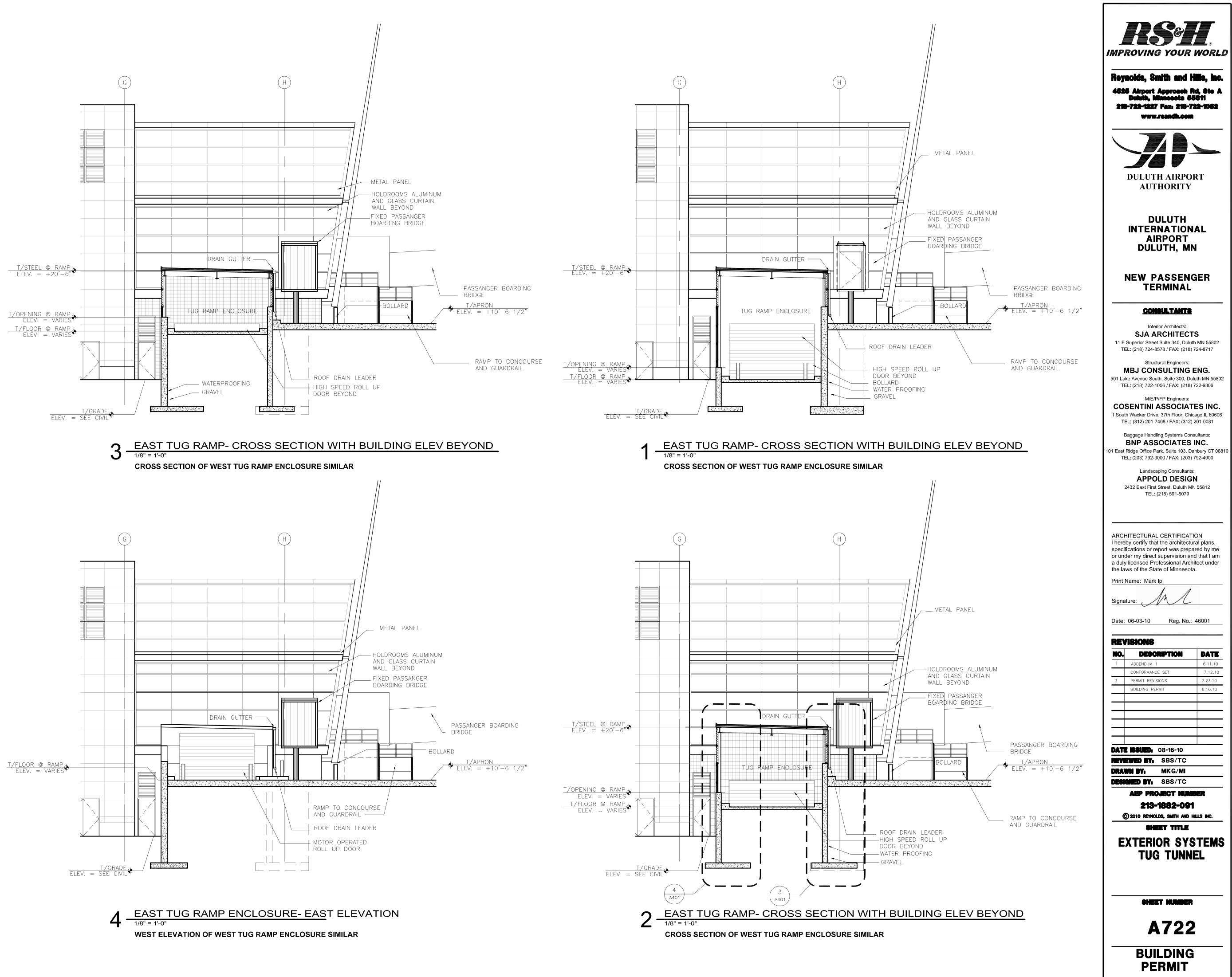


Drawing: t:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A721 Exterior System Sheet — Tug Tunnel.dwg Plotted on: 8/16/2010 9:42 AM

Plotted by: Ip, Mark

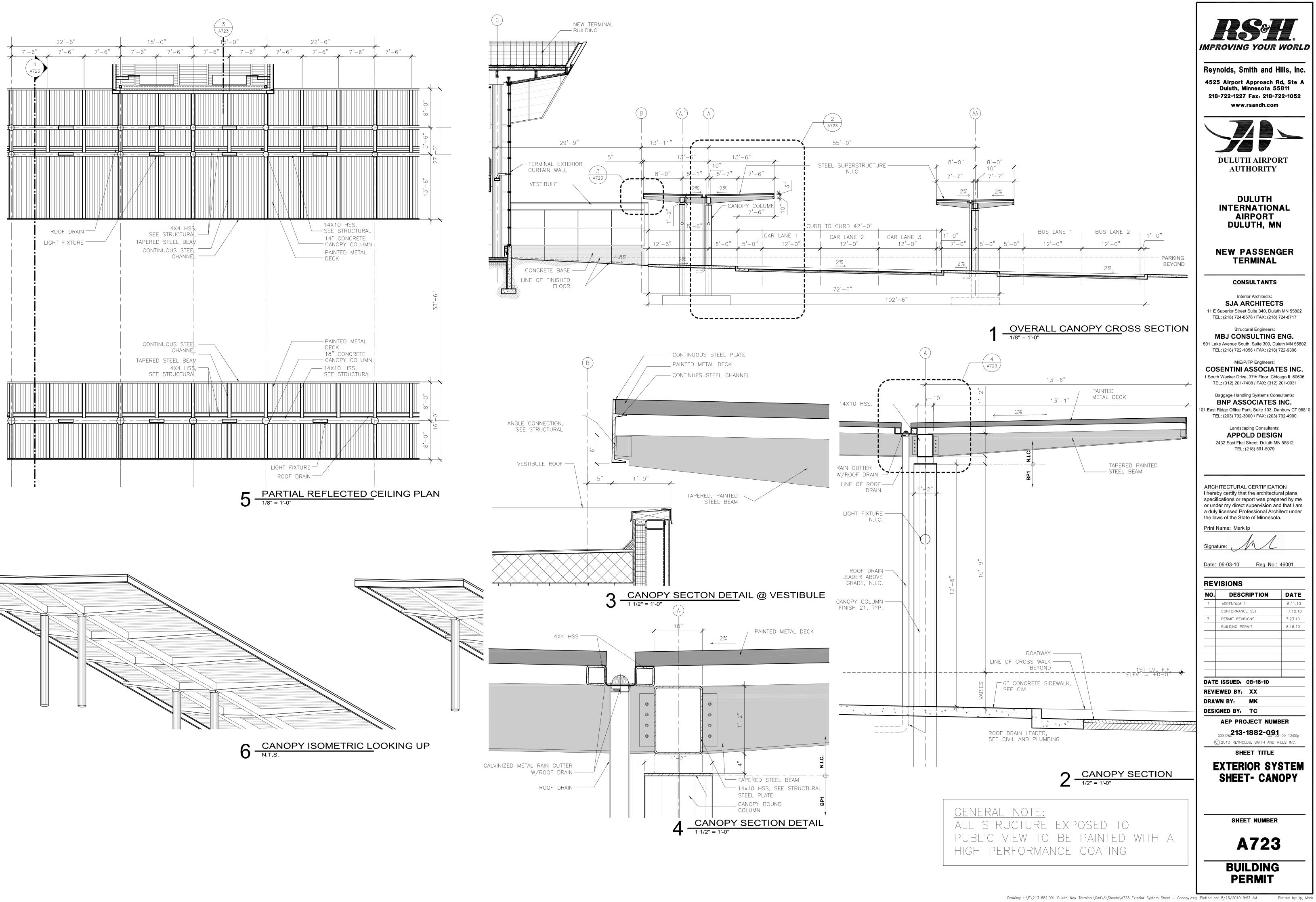


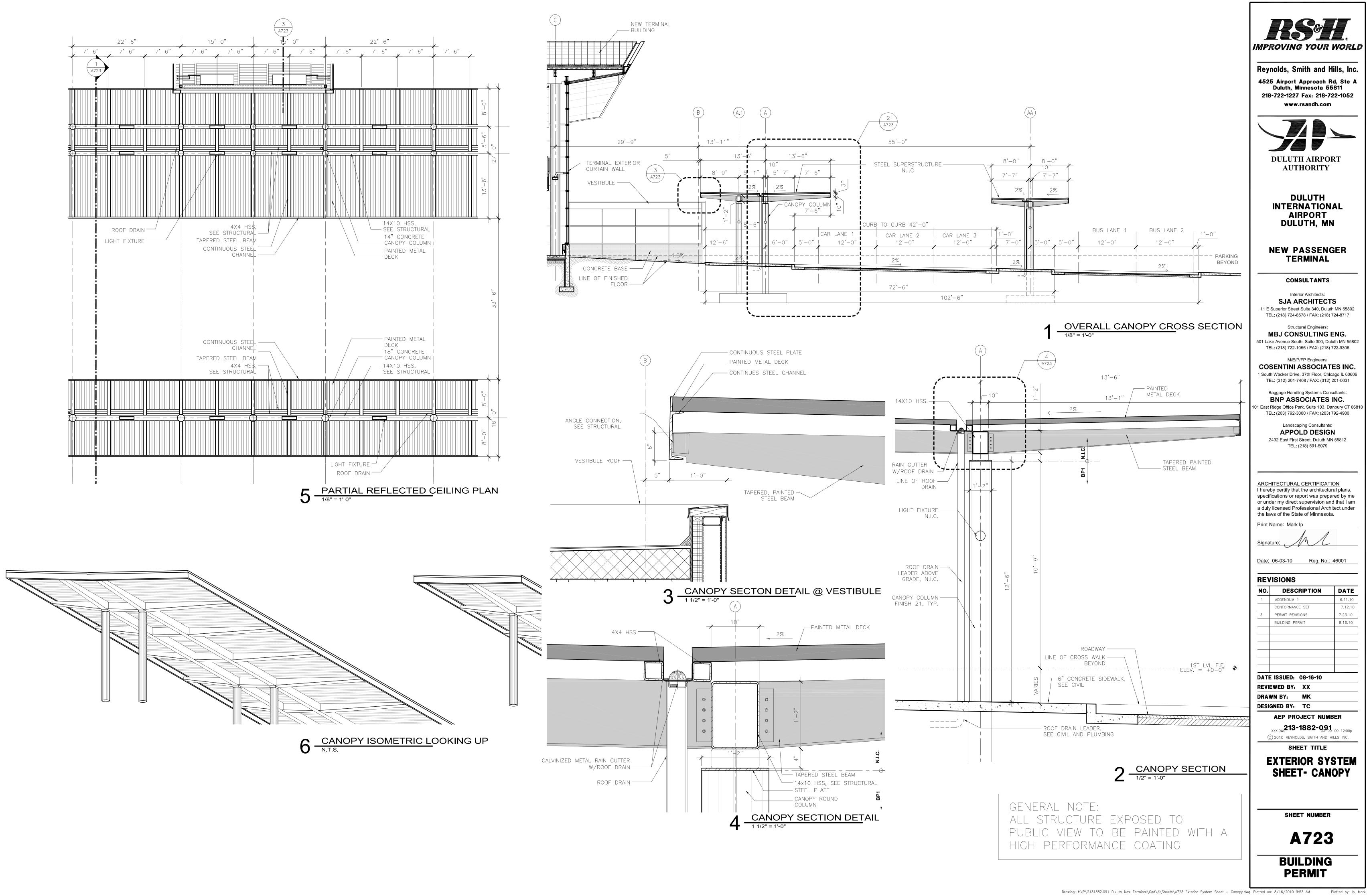




Drawing: t:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A722 Exterior System Sheet — Tug Tunnel.dwg Plotted on: 8/16/2010 9:42 AM

Plotted by: Ip, Mark





						W	ALLS							
		FLOOR	N	ORTH	E	AST	S	OUTH	w	EST	CE	ILING	WINDOW	
ROOM #	ROOM NAME	FINISH	FINISH	BASE	FINISH	BASE	FINISH	BASE	FINISH	BASE	MATERIAL	HEIGHT	COVERING	REMARKS
201	PASSENGER WAITING	TER	DP-1/ DP-2	SST	GL-3	SST	GL-1/ GL-3	SST	GL-3	SST	CL-1			
202	CORRIDOR	TER	DP/ MTL	TER	PT	TER	GL-2	TER	DP-1/ DP-2	TER	CL-6			
203	CORRDIOR	RF-1	WP/ PT	RB-1	WP/ PT	RB-1	WP/ PT	RB-1	WP/ PT	RB-1	CL-3			
204	TELECOM	SC-1	PT	RB-1	РТ	RB-1	PT	RB-1	PT	RB-1	EX-1			
205	JAN.	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
206	MEN	T-1/ T-2	Т	Т	T/ GT	Т	T/ GT	Т	Т	Т	CL-4			
207	WOMEN	T-1/ T-2	Т	Т	Т	Т	T/ GT	Т	T/ GT	Т	CL-4	_		
208	TSA CHECKPOINT	CPT-2	GL-4	SST	WP/ PT	SST	WP/ PT	SST	WP/ PT	SST	CL-2			
209	STOR.	RF-3	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6			
210	REMOTE V.	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3		_	
211	TSA	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3		_	
212		RF-1 RF-1	PT PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
213				RB-1	PT WP/ PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
214 215	TSA QUEUE	CPT-2 CPT-3	GL-4	SST SST	GL-4	SST SST		SST SST	GL-4 DP-2	SST SST	CL-2 CL-2			
215	VEND	TER	 PT	SST	PT	SST	 PT	SST	PT	SST	CL-6/ PT-2			
210	COMM.	RF-3	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			+
217	NOT USED	14-0				1-0-1							-	
210	CONCOURSE	CPT-3	GL-1	SST	GL-1	SST	GL-4/ DP-2	SST	GL-4	SST	CL-2/ EX-2			
219	NOT USED												+	
221	MEN	T-1/ T-2	т	т	T/ GT	Т	т	т	T/ GT	Т	CL-4			
222	WOMEN	T-1/ T-2	т	т	T/ GT	т	т	т	T/ GT	т	CL-4			
223	FAMILY	T-1/ T-2	т	т	т	т	т	т	т	Т	CL-4			
224	SERVERY													NIC
225	KITCHEN													NIC
226	BAR													NIC
227	MEN	T-1/ T-2	Т	т	т	Т	T/ GT	Т	T/ GT	Т	CL-4			
228	WOMEN	T-1/ T-2	Т	т	T/ GT	Т	T/GT	Т	Т	Т	CL-4			
229	CORRIDOR	RF-1	PT	RB-1	РТ	RB-1	PT	RB-1	PT	RB-1	CL-6			
230	ELEC.	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
231	BOARDING	CPT-3	GL-1 / PT	SST	GL-4	SST	GL-2	SST	DP-2	SST	CL-2/ EX-2			
232	VEST	CPT-3	GL-1	SST	GL-4	SST	GL-2	SST	GL-2	SST	CL-2/ EX-2			
233	CORR.	CPT-3	GL-2/ PT	SST	GL-4/ PT	SST	DP-2	SST		SST	CL-2			
234	FBO OFFICE	CPT-1	GL-1/PT	RB-1	РТ	RB-1	PT	RB-1	PT	RB-1	CL-2/ EX-2			
235	WOMEN	T-1/ T-2	Т	Т	Т	Т	T/ GT	Т	Т	Т	CL-4			
236	MEN	T-1/ T-2	T/ GT	Т	Т	Т	Т	Т	Т	Т	CL-4			
237	INTERNATIONAL	TER	GL-5	TER	DP/ MTL	TER	GL-5	TER	DP/ MTL/ GL-2	TER	CL-6	_		
238	MEN	T-1/ T-2	Т —	Т	T/ GT	Т	Т	Т	Т	Т	CL-4		_	
239	WOMEN	T-1/ T-2	Т	T	T/ GT	T	Т	T	Т	T	CL-4		_	
240	COMP	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-7			
241	OFFICE	CPT-1	PT CL-1	RB-1	PT	RB-1	PT	RB-1	PT GL-1	RB-1 SST	CL-6			
242 243	CORR. NOT USED	CPT-3	GL-1	SST	PT	SST	DP-2	SST	GL-1	551	CL-2/ EX-2			
243 244	NOT USED													
244 245	ROVER	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6		+	<u> </u>
243 247	FIXED BRIDGE											+	+	Equipment Item
247	FIXED BRIDGE												-	Equipment Item
240	STOR.	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3		-	
250	CONF.	CPT-5	WC	WB	PT	WB	PT	WB	PT	WB	CL-5			
251	OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3		1	1
252	WHEELCHAIR	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3		1	1
EMARKS		1	1		1				1	1	1 -	1		
1														
2														
3														
	OTES													
1														

						W	ALLS							
		FLOOR	NC	ORTH	E	AST		OUTH	N	/EST	CE	ILING		
ROOM #	ROOM NAME	FINISH	FINISH	BASE	FINISH	BASE	FINISH	BASE	FINISH	BASE	MATERIAL	HEIGHT	WINDOW COVERING	REMARKS
301	WAITING	CPT-3	WC/ PT	WB	WC/ PT	WB	WC/ PT	WB	WC/ PT	WB	CL-5/ CL-6			
302	CORRIDOR	CPT-3	WC/ PT	WB	WC/ PT	WB	WC/ PT	WB	WC/ PT	WB	CL-6			
303	NOT USED													
304	MECHANICAL ROOM	SC-1									EX-1			
305	OFFICE	CPT-4	PT	RB-2	PT	RB-2	PT	RB-2	PT	RB-2	CL-5			
306	CORRIDOR	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
307	TSA TRAINING	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
308	W. LOCKER	RF-2	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
309	M. LOCKER	RF-2	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
310	TSA BREAK	RF-2	PT	RB-1	PT	RB-1	РТ	RB-1	PT	RB-1	CL-3			
311	TSA OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
312	TSA OFFICE	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
313	BADGE	CPT-4	PT	RB-2	PT	RB-2	PT	RB-2	PT	RB-2	CL-5			
314	JAN.	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1			
315	MEN	T-1/ T-2	Т	Т	T/ GT	Т	T/ GT	Т	Т	Т	CL-4			
316	WOMEN	T-1/ T-2	Т	Т	Т	Т	T/ GT	Т	T/ GT	Т	CL-4			
317	CORR.	CPT-4	WC/ PT	RB-2	PT	RB-2	PT	RB-2	WC/PT	RB-2	CL-5			
318	EMERG. OPS	CPT-5	GL-1/PT	WB	WC/ PT	WB	PT	WB	PT	WB	CL-5/ CL-6			
319	STORAGE	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
320	OSP CONF	CPT-5	GL-1/PT	WB	WC/ PT	WB	PT	WB	GL-I/ PT	WB	CL-5/ CL-6			
321	RECEPTION	CPT-4	PT	RB-2	PT	RB-2	PT	RB-2	WC/ PT	RB-2	CL-5/ CL-6			
322	OPS CONF.	CPT-5	GL-1/PT	WB	WC/ PT	WB	PT	WB	PT	WB	CL-5/ CL-6			
323	EXEC DIR	CPT-4	GL-1/PT	RB-2	PT	RB-2	PT	RB-2	PT	RB-2	CL-5/ CL-6			
324	OPS	CPT-4	GL-1/PT	RB-2	PT	RB-2	PT	RB-2	PT	RB-2	CL-5/ CL-6			
325	DIR.	CPT-4	GL-1/PT	RB-2	PT	RB-2	PT	RB-2	PT	RB-2	CL-5/ CL-6			
326	DIR.	CPT-4	GL-1/PT	RB-2	PT	RB-2	PT	RB-2	PT	RB-2	CL-5/ CL-6			
327	OFFICE	CPT-4	GL-1/PT	RB-2	GL-1/PT	RB-2	PT	RB-2	PT	RB-2	CL-5/ CL-6			
328	OPEN OFFICE	CPT-4	WC/ PT	RB-2	GL-1/PT	RB-2	PT	RB-2	PT	RB-2	CL-5			
229	NOT USED													
330	NOT USED										_		↓ ↓	
331	COPY	RB-3	PT	RB-2	PT	RB-2	PT	RB-2	PT	RB-2	CL-5			
332	OFFICE	CPT-4	PT	RB-2	PT	RB-2	PT	RB-2	PT	RB-2	CL-5		┦────┤	
333	MECHANICAL ROOM	SC-1									EX-1		┦────┤	
334	ELECTRICAL	SC-1									EX-1		↓ ↓	
335	CORRIDOR	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-2		↓ ↓	
336	STORAGE	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3		┦────┦	
337	COMM/ ELEC	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3			
MARKS														
1														
2														
3														
ENERAL N	DTES													
1														
2														

ROOM NAME VESTIBULE CHECK- IN LOBBY CHECK- IN COUNTER DBBY CIRCULATION ELEV. RAC 5B RAC 5A RAC 5A RAC 4B RAC 4A RAC 3B RAC 3B RAC 3A RAC 2B RAC 2A RAC 2B RAC 2A RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL	FLOOR FINISH TER TER TER TER RF-1 TER RF-1 TER RF-1 TER RF-1 TER RF-1	NO           FINISH           GL-1              DP-1/DP-2           DP-1           PT           DP-1/PT           PT           DP-1/PT           PT           DP-1/PT           PT	RTH BASE SST SST SST RB-1 SST RB-1 SST		ST BASE SST SST SST RB-1 SST		UTH BASE SST SST SST		ST BASE SST SST SST	-	LING WINDOW HEIGHT COVERIN	
VESTIBULE CHECK- IN LOBBY CHECK- IN COUNTER OBBY CIRCULATION ELEV. RAC 5B RAC 5A RAC 5A RAC 4B RAC 4B RAC 4B RAC 3B RAC 3B RAC 3B RAC 3A RAC 2B RAC 2A RAC 1B RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL	TER TER TER RF-1 TER RF-1 TER RF-1 TER RF-1 TER	GL-1  DP-1/DP-2 DP-1 PT PT DP-1/PT PT DP-1/PT	SST SST SST RB-1 SST RB-1	GL-1 GL-1 GL-1  PT DP-1/PT	SST SST SST RB-1	GL-1 GL-1  DP-1/DP-2	SST SST SST	GL-1  	SST SST	 CL-1		
CHECK- IN COUNTER DBBY CIRCULATION ELEV. RAC 5B RAC 5A RAC 4B RAC 4B RAC 4A RAC 3B RAC 3B RAC 3A RAC 2B RAC 2B RAC 2A RAC 1B RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL	TER TER RF-1 TER RF-1 TER RF-1 TER TER	DP-1/ DP-2 DP-1 PT DP-1/ PT PT DP-1/ PT	SST SST RB-1 SST RB-1	GL-1  PT DP-1/PT	SST SST RB-1	 DP-1/DP-2	SST SST		SST			
ELEV. RAC 5B RAC 5A RAC 4B RAC 4A RAC 3B RAC 3A RAC 2B RAC 2A RAC 2A RAC 1B RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL	RF-1 TER RF-1 TER RF-1 TER TER	PT DP-1/PT PT DP-1/PT	RB-1 SST RB-1	PT DP-1/PT	RB-1				SST			
RAC 5B RAC 5A RAC 4B RAC 4A RAC 3B RAC 3A RAC 2B RAC 2A RAC 1B RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL	TER RF-1 TER RF-1 TER	DP-1/ PT PT DP-1/ PT	SST RB-1	DP-1/PT		PT				CL-2/ CL-6		
RAC 4B RAC 4A RAC 3B RAC 3A RAC 2B RAC 2A RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL	RF-1 TER RF-1 TER	PT DP-1/PT	RB-1		SST		RB-1	PT	RB-1	CL-3		Refer to Elevator Specifications
RAC 4A RAC 3B RAC 3A RAC 2B RAC 2A RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL	TER RF-1 TER	DP-1/PT			RB-1	PT PT	SST RB-1	DP-1/ PT PT	SST RB-1	CL-2 CL-3		
RAC 3A RAC 2B RAC 2A RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL	TER	PT		DP-1/PT	SST	PT	SST	DP-1/ PT	SST	CL-3 CL-2		
RAC 2B RAC 2A RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL		DP-1/PT	RB-1 SST	PT DP-1/PT	RB-1 SST	PT PT	RB-1 SST	PT DP-1/ PT	RB-1 SST	CL-3 CL-2		
RAC 1B RAC 1A BAGGAGE CLAIM INTERNATIONAL		PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-2 CL-3		
RAC 1A BAGGAGE CLAIM INTERNA TIONAL	TER	DP-1/PT	SST	DP-1/PT	SST	PT	SST	DP-1/PT	SST	CL-2		
INTERNATIONAL	RF-1 TER	PT DP-1/PT	RB-1 SST	PT DP-1/PT	RB-1 SST	PT PT	RB-1 SST	PT DP-1/ PT	RB-1 SST	CL-3 CL-2		
	TER	DP-1 / DP-2	SST	DP-1/DP-2	SST	GL-1	SST	DP-1/DP-2	SST	CL-2/CL-6		
ELEV.	TER	DP-1/DP-2	SST	DP-1/DP-2	SST	GL-1	SST	GL-1	SST	CL-1/ CL-2		Refer to Elevator Specifications
NOT USED												· · ·
CORRIDOR WHEELCHAIR	FT-2 FT-2	WP/ PT WP/ PT	FT-2 FT-2	WP/ PT WP/ PT	FT-2 FT-2	WP/ PT WP/ PT	FT-2 FT-2	WP/ PT WP/ PT	FT-2 FT-2	CL-3 CL-3		
OPS	CPT-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3		
OFFICE OPS	CPT-1 CPT-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	CL-3 CL-3		
OFFICE	CPI-1 CPT-1	PI PT	RB-1 RB-1	PI PT	RB-1 RB-1	PI PT	RB-1 RB-1	PI PT	RB-1 RB-1	CL-3 CL-3		
LOADING	SC-1	PT PT	RB-1	PT PT	RB-1	PT	RB-1	PT PT	RB-1	EX-1		
OPS SPRINKLER	CPT-1 SC-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	CL-3 EX-1		
WOMENS	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	CL-4		
MENS OPS	FT-1 CPT-1	T/ PT PT	FT-1 RB-1	T/ PT PT	FT-1 RB-1	T/ PT PT	FT-1 RB-1	T/ PT PT	FT-1 RB-1	CL-4 CL-3	<b>├</b> ─── <b>│</b>	
OFFICE	CPT-1	PT	RB-1	PT	RB-1	РТ	RB-1	РТ	RB-1	CL-3		
CBIS ROOM BAG	SC-1 RF-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	EX-1 EX-1	<u> </u>	
BAG	RF-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1		
MEN FAMILY	T-1/ T-2 T-1	T T	T T	T/GT T	T T	T/ GT T	Т	Т	T T	CL-4 CL-4		
JAN.	RF-1	PT	RB-1	РТ	RB-1	PT	RB-1	PT	RB-1	CL-4		
WOMEN	T-1/ T-2 RF-3	T WP/ PT	T RB-1	T WP/ PT	T RB-1	T/ GT WP/ PT	T RB-1	T/ GT WP/ PT	T RB-1	CL-4 CL-3		
MAINT	RF-1	РТ	RB-1	РТ	RB-1	РТ	RB-1	РТ	RB-1	CL-3		
BHS CONT MACH.	RF-1 RF-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	CL-3 CL-3		
CBIS CONT.	RF-1	PT PT	RB-1	РГ	RB-1	PT	RB-1	PT	RB-1	CL-3 CL-3		
W. LOCKER	RF-1	PT PT	RB-1	РТ	RB-1	PT PT	RB-1	PT PT	RB-1	CL-3		
NOT USED	KF-1	PI	KB-1	PI	RB-1	PI	KB-1	PI	KB-1	CL-3		
SUB OFFICE	RF-1	РТ	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-3		
CORRDIOR	RF-3	PT	RB-1 RB-1	PT	RB-1 RB-1	PT	RB-1 RB-1	PT	RB-1 RB-1	CL-6		
	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	CL-6		
ELEV MACHINE	SC-1	РТ	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1		
ELEV												Refer to Elevator Specifications
BREAK	RF-1	DP-1/ DP-2/ PI PT	RB-1	DP-1/ DP-2/ PI PT	RB-1	DP-1/ DP-2 PT	RB-1	DP-1/ DP-2 PT	RB-1	CL-2 CL-6		
MEN	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	T/ PT	FT-1	CL-4		
WOMEN SEC. X-RAY	FT-1 CPT-1	T/ PT PT	FT-1 RB-1	T/ PT PT	FT-1 RB-1	T/ PT PT	FT-1 RB-1	T/ PT PT	FT-1 RB-1	CL-4 CL-6	<u> </u>	
AG LAB	FT-2	РТ	FT-2	РТ	FT-2	РТ	FT-2	PT	FT-2	CL-6		
INTERV.	CPT-1 CPT-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	CL-6 CL-6		
ROVER	CPT-1	РТ	RB-1	РТ	RB-1	PT	RB-1	PT	RB-1	CL-6		
STOR	RF-2 CPT-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	CL-6 CL-6		
OFFICE	CPT-1	РТ	RB-1	РТ	RB-1	РТ	RB-1	PT	RB-1	CL-6		
STOR. CORRIDOR	RF-1 FT-2	PT WP/ PT	RB-1 FT-2	PT WP/ PT	RB-1 FT-2	PT WP/ PT	RB-1 FT-2	PT WP/ PT	RB-1 FT-2	CL-7 CL-6		
SEARCH	FT-1	РТ	FT-1	РТ	FT-1	РТ	FT-1	PT	FT-1	CL-7		
HOLD ROOM	FT-1 FT-1	FRP FRP	FT-1 FT-1	FRP FRP	FT-1 FT-1	FRP FRP	FT-1 FT-1	FRP FRP	FT-1 FT-1	CL-7 CL-7		
DBS	FT-2	РТ	FT-2	РТ	FT-2	РТ	FT-2	РТ	FT-2	CL-6		
MEN WOMEN	FT-1 FT-1	T T	FT-1 FT-1	T T	FT-1 FT-1	Т	FT-1 FT-1	Т	FT-1 FT-1	CL-4 CL-4		
ELEV M.	SC-1	PT	RB-1	PT	RB-1	PT	RB-1	PT	RB-1	EX-1		
TUG TUNNEL NOT USED	SC-1									EX-1		
TUG RAMP	SC-1									EX-1		
	SC-1 CPT-1	 PT	 RB-1	 PT	 RB-1	 PT	 RB-1	 PT	 RB-1	EX-1		
CASHIER	CPI-1 CPT-1	PI PT	RB-1 RB-1	PI PT	RB-1 RB-1	PI PT	RB-1 RB-1	PI PT	RB-1 RB-1	CL-6 CL-6		
CORRIDOR	CPT-1	PT	RB-1	PT DT	RB-1	PT	RB-1	PT	RB-1	CL-6		
BAG	RF- 1 RF-1	PT PT	RB-1 RB-1	РТ РТ	RB-1 RB-1	PT PT	RB-1 RB-1	PT PT	RB-1 RB-1	EX-1 EX-1		
		۱	•	•	·	- I	•	•	•	•	· · · · · · · · · · · · · · · · · · ·	•
	LOA DINGOPSSPRINKLERWOMENSMENSOFSOFFICECBIS ROOMBAGBAGMENCORRIDORMACH.CORRIDORMACH.CBIS CONT.WU LOCKERMACH.CORRIDORCORRIDORMACH.CORRIORMACH.CORRDIORMACH.SUB OFFICEELECTRICALCORRDIORELECTRICALCORRDIORELEVMACHINEELEVAGLABINTERV.AG LABINTERV.AGITROVERSTORINTERV.ADITROVERSTORINTERV.ADITROVERSTORINTERV.ADITROVERSTORJUT USEDINTERV.ADITROVERSTORJUT ROVINELHOLD ROOMDESMENVOMENELEV M.TUG TUNNELNOT USEDINTERV.ADITADITROVERSTORJUG RAMPOFFICECASHIERCORRIDORBAG	LOADINGSC-1OPSCPT-1SPRINKLERSC-1WOMENSFT-1MENSFT-1OPSCPT-1OFSCPT-1CBIS ROOMSC-1BAGRF-1BAGRF-1MENT-1/T-2FAMILYT-1JANRF-1WOMENT-1/T-2CORRIDORRF-3MAINTRF-1BAS CONTRF-1WACHRF-1MACHRF-1CBIS CONTRF-1MLOCKERRF-1MLOCKERRF-1NOT USEDSUB OFFICESUB OFFICERF-1LECTRCALSC-1CORRDORRF-3OOMMSC-1NOT USEDIELEV MACHINESC-1ELEVCPT-1NOT USEDIRECHECKTERBREAKRF-1WOMENFT-1SEC X-RAYCPT-1ADITCPT-1ADITCPT-1ADITCPT-1ADITCPT-1ADITCPT-1ADITCPT-1ADITCPT-1DFREV.CPT-1ADITSC-1INTERV.CPT-1ADITSC-1INTERV.CPT-1DFICECPT-1CORRIDORFT-2MENFT-1UG RAMPSC-1INT USEDITUG RAMPSC-1INT USEDITUG RAMPSC-1 <td>LOADINGSC-1PTOPSCPT-1PTSPRINKLERSC-1PTWOMENSFT-1T/PTMENSFT-1T/PTOPSCPT-1PTOFFICECPT-1PTCBIS ROOMSC-1PTBAGRF-1PTBAGRF-1PTMENT-1/T-2TFAMILYT-1TJANRF-1PTWOMENT-1/T-2TCORRIDORRF-3WP/ PTMAINTRF-1PTMACHRF-1PTWLOCKERRF-1PTMLOCKERRF-1PTNU LOCKERRF-1PTNU LOCKERRF-1PTNU LOCKERRF-1PTNU LOCKERRF-1PTCORRDORRF-3PTCOMMSC-1PTNOT USEDELECTRICALSC-1PTCOMMSC-1PTNOT USEDELECTRICALSC-1PTREHEAKRF-1PTMENFT-1T/PTSTORRF-2PTINTERV.CPT-1PTAG LABFT-2PTINTERV.CPT-1PTADITCPT-1PTADITCPT-1PTMENFT-1PTADITCPT-1PTOFFICECPT-1PTMENFT-1FRPDDIS<td>LOADING         SC-1         PT         RB-1           OPS         CPT-1         PT         RB-1           SFRINKLER         SC-1         PT         RB-1           WOMENS         FT-1         T/PT         FT-1           MENS         FT-1         T/PT         RB-1           OFFICE         CPT-1         PT         RB-1           OFFICE         CPT-1         PT         RB-1           CBIS ROOM         SC-1         PT         RB-1           BAG         RF-1         PT         RB-1           BAG         RF-1         PT         RB-1           MEN         T-1/T-2         T         T           JAN         RF-1         PT         RB-1           MEN         T-1/T-2         T         T           CORRDOR         RF-3         WP/PT         RB-1           MACH         RF-1         PT         RB-1           DOLO</td><td>LOADING         SC-1         PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           SPRINKLER         SC-1         PT         RB-1         PT           MOMENS         FF-1         T/ PT         FF-1         T/ PT           MENS         FF-1         T/ PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           CBIS ROOM         SC-1         PT         RB-1         PT           BAG         RF-1         PT         RB-1         PT           BAG         RF-1         PT         RB-1         PT           MAN         T-1/T-2         T         T         T           ORREDOR         FF-3         WP/PT         RB-1         PT           MANT         RF-1         PT         RB-1         PT           MACH         RF-1         PT         RB-1         PT           MACH         RF-1         PT         RB-1         PT           <t< td=""><td>LOADNG         SC1         PT         RB-1         PT         RB-1           OFS         OFT-1         PT         RB-1         PT         RB-1           WOMENS         FT-1         T/PT         RT-1         T/PT         FT-1         T/PT           MNN         FT-1         T/PT         FT-1         T/PT         RB-1         PT           MNN         FT-1         T/PT         RB-1         PT         RB-1           ORS         OPT-1         PT         RB-1         PT         RB-1           ORS         OPT-1         PT         RB-1         PT         RB-1           DESCO         OPT-1         PT         RB-1         PT         RB-1           DAG         RF-1         PT         RB-1         PT         RB-1           BAG         RF-1         PT         T         T         T         T           JAN         RF-1         PT         RB-1         PT         RB-1         PT         RB-1           WOMEN         T-1/T-2         T         T         T         T         T         T         T         T         T         T         T         RB-1         PT         R</td><td>LOADNG         SC 1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ORS         OCT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           SYRANLER         SC 1         PT         R8-1         PT         R8-1         PT         R8-1         PT           WOMNS         FT-1         1/PT         FT-1         T/PT         R8-1         PT         R8-1         PT           MANS         CT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ORS         CMT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           DAG         RF-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           BAG         RF-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ANN         RF-1         PT         R8-1         PT         R8-1         PT           MANT         RF-1         PT         R8-1         PT         R8-1         PT           MANN</td><td>LOADNG         SP1         PT         BB1         PT         BB1         PT         BB1         PT         BB1           OPS         OP14         PT         R641         PT         R641</td><td>DAMMA CPFSPA1PTBBA4PTBBA4PTBBA4PTCPFCPF-1PTPTBPA1PTBPA1PTBPA1PTSINRALRSC51PTT1PTPT&lt;1</td>T1PTPT&lt;1</t<></td>T1PTT1PTPT&lt;1</td> T1PTMAMASPT1T1PTPT<1	LOADINGSC-1PTOPSCPT-1PTSPRINKLERSC-1PTWOMENSFT-1T/PTMENSFT-1T/PTOPSCPT-1PTOFFICECPT-1PTCBIS ROOMSC-1PTBAGRF-1PTBAGRF-1PTMENT-1/T-2TFAMILYT-1TJANRF-1PTWOMENT-1/T-2TCORRIDORRF-3WP/ PTMAINTRF-1PTMACHRF-1PTWLOCKERRF-1PTMLOCKERRF-1PTNU LOCKERRF-1PTNU LOCKERRF-1PTNU LOCKERRF-1PTNU LOCKERRF-1PTCORRDORRF-3PTCOMMSC-1PTNOT USEDELECTRICALSC-1PTCOMMSC-1PTNOT USEDELECTRICALSC-1PTREHEAKRF-1PTMENFT-1T/PTSTORRF-2PTINTERV.CPT-1PTAG LABFT-2PTINTERV.CPT-1PTADITCPT-1PTADITCPT-1PTMENFT-1PTADITCPT-1PTOFFICECPT-1PTMENFT-1FRPDDIS <td>LOADING         SC-1         PT         RB-1           OPS         CPT-1         PT         RB-1           SFRINKLER         SC-1         PT         RB-1           WOMENS         FT-1         T/PT         FT-1           MENS         FT-1         T/PT         RB-1           OFFICE         CPT-1         PT         RB-1           OFFICE         CPT-1         PT         RB-1           CBIS ROOM         SC-1         PT         RB-1           BAG         RF-1         PT         RB-1           BAG         RF-1         PT         RB-1           MEN         T-1/T-2         T         T           JAN         RF-1         PT         RB-1           MEN         T-1/T-2         T         T           CORRDOR         RF-3         WP/PT         RB-1           MACH         RF-1         PT         RB-1           DOLO</td> <td>LOADING         SC-1         PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           SPRINKLER         SC-1         PT         RB-1         PT           MOMENS         FF-1         T/ PT         FF-1         T/ PT           MENS         FF-1         T/ PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           CBIS ROOM         SC-1         PT         RB-1         PT           BAG         RF-1         PT         RB-1         PT           BAG         RF-1         PT         RB-1         PT           MAN         T-1/T-2         T         T         T           ORREDOR         FF-3         WP/PT         RB-1         PT           MANT         RF-1         PT         RB-1         PT           MACH         RF-1         PT         RB-1         PT           MACH         RF-1         PT         RB-1         PT           <t< td=""><td>LOADNG         SC1         PT         RB-1         PT         RB-1           OFS         OFT-1         PT         RB-1         PT         RB-1           WOMENS         FT-1         T/PT         RT-1         T/PT         FT-1         T/PT           MNN         FT-1         T/PT         FT-1         T/PT         RB-1         PT           MNN         FT-1         T/PT         RB-1         PT         RB-1           ORS         OPT-1         PT         RB-1         PT         RB-1           ORS         OPT-1         PT         RB-1         PT         RB-1           DESCO         OPT-1         PT         RB-1         PT         RB-1           DAG         RF-1         PT         RB-1         PT         RB-1           BAG         RF-1         PT         T         T         T         T           JAN         RF-1         PT         RB-1         PT         RB-1         PT         RB-1           WOMEN         T-1/T-2         T         T         T         T         T         T         T         T         T         T         T         RB-1         PT         R</td><td>LOADNG         SC 1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ORS         OCT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           SYRANLER         SC 1         PT         R8-1         PT         R8-1         PT         R8-1         PT           WOMNS         FT-1         1/PT         FT-1         T/PT         R8-1         PT         R8-1         PT           MANS         CT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ORS         CMT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           DAG         RF-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           BAG         RF-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ANN         RF-1         PT         R8-1         PT         R8-1         PT           MANT         RF-1         PT         R8-1         PT         R8-1         PT           MANN</td><td>LOADNG         SP1         PT         BB1         PT         BB1         PT         BB1         PT         BB1           OPS         OP14         PT         R641         PT         R641</td><td>DAMMA CPFSPA1PTBBA4PTBBA4PTBBA4PTCPFCPF-1PTPTBPA1PTBPA1PTBPA1PTSINRALRSC51PTT1PTPT&lt;1</td>T1PTPT&lt;1</t<></td> T1PTT1PTPT<1	LOADING         SC-1         PT         RB-1           OPS         CPT-1         PT         RB-1           SFRINKLER         SC-1         PT         RB-1           WOMENS         FT-1         T/PT         FT-1           MENS         FT-1         T/PT         RB-1           OFFICE         CPT-1         PT         RB-1           OFFICE         CPT-1         PT         RB-1           CBIS ROOM         SC-1         PT         RB-1           BAG         RF-1         PT         RB-1           BAG         RF-1         PT         RB-1           MEN         T-1/T-2         T         T           JAN         RF-1         PT         RB-1           MEN         T-1/T-2         T         T           CORRDOR         RF-3         WP/PT         RB-1           MACH         RF-1         PT         RB-1           DOLO	LOADING         SC-1         PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           SPRINKLER         SC-1         PT         RB-1         PT           MOMENS         FF-1         T/ PT         FF-1         T/ PT           MENS         FF-1         T/ PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           OPS         OPT-1         PT         RB-1         PT           CBIS ROOM         SC-1         PT         RB-1         PT           BAG         RF-1         PT         RB-1         PT           BAG         RF-1         PT         RB-1         PT           MAN         T-1/T-2         T         T         T           ORREDOR         FF-3         WP/PT         RB-1         PT           MANT         RF-1         PT         RB-1         PT           MACH         RF-1         PT         RB-1         PT           MACH         RF-1         PT         RB-1         PT <t< td=""><td>LOADNG         SC1         PT         RB-1         PT         RB-1           OFS         OFT-1         PT         RB-1         PT         RB-1           WOMENS         FT-1         T/PT         RT-1         T/PT         FT-1         T/PT           MNN         FT-1         T/PT         FT-1         T/PT         RB-1         PT           MNN         FT-1         T/PT         RB-1         PT         RB-1           ORS         OPT-1         PT         RB-1         PT         RB-1           ORS         OPT-1         PT         RB-1         PT         RB-1           DESCO         OPT-1         PT         RB-1         PT         RB-1           DAG         RF-1         PT         RB-1         PT         RB-1           BAG         RF-1         PT         T         T         T         T           JAN         RF-1         PT         RB-1         PT         RB-1         PT         RB-1           WOMEN         T-1/T-2         T         T         T         T         T         T         T         T         T         T         T         RB-1         PT         R</td><td>LOADNG         SC 1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ORS         OCT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           SYRANLER         SC 1         PT         R8-1         PT         R8-1         PT         R8-1         PT           WOMNS         FT-1         1/PT         FT-1         T/PT         R8-1         PT         R8-1         PT           MANS         CT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ORS         CMT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           DAG         RF-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           BAG         RF-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ANN         RF-1         PT         R8-1         PT         R8-1         PT           MANT         RF-1         PT         R8-1         PT         R8-1         PT           MANN</td><td>LOADNG         SP1         PT         BB1         PT         BB1         PT         BB1         PT         BB1           OPS         OP14         PT         R641         PT         R641</td><td>DAMMA CPFSPA1PTBBA4PTBBA4PTBBA4PTCPFCPF-1PTPTBPA1PTBPA1PTBPA1PTSINRALRSC51PTT1PTPT&lt;1</td>T1PTPT&lt;1</t<>	LOADNG         SC1         PT         RB-1         PT         RB-1           OFS         OFT-1         PT         RB-1         PT         RB-1           WOMENS         FT-1         T/PT         RT-1         T/PT         FT-1         T/PT           MNN         FT-1         T/PT         FT-1         T/PT         RB-1         PT           MNN         FT-1         T/PT         RB-1         PT         RB-1           ORS         OPT-1         PT         RB-1         PT         RB-1           ORS         OPT-1         PT         RB-1         PT         RB-1           DESCO         OPT-1         PT         RB-1         PT         RB-1           DAG         RF-1         PT         RB-1         PT         RB-1           BAG         RF-1         PT         T         T         T         T           JAN         RF-1         PT         RB-1         PT         RB-1         PT         RB-1           WOMEN         T-1/T-2         T         T         T         T         T         T         T         T         T         T         T         RB-1         PT         R	LOADNG         SC 1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ORS         OCT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           SYRANLER         SC 1         PT         R8-1         PT         R8-1         PT         R8-1         PT           WOMNS         FT-1         1/PT         FT-1         T/PT         R8-1         PT         R8-1         PT           MANS         CT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ORS         CMT-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           DAG         RF-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           BAG         RF-1         PT         R8-1         PT         R8-1         PT         R8-1         PT           ANN         RF-1         PT         R8-1         PT         R8-1         PT           MANT         RF-1         PT         R8-1         PT         R8-1         PT           MANN	LOADNG         SP1         PT         BB1         PT         BB1         PT         BB1         PT         BB1           OPS         OP14         PT         R641         PT         R641	DAMMA CPFSPA1PTBBA4PTBBA4PTBBA4PTCPFCPF-1PTPTBPA1PTBPA1PTBPA1PTSINRALRSC51PTT1PTPT<1	LOANDC         Spi-1         PT         Rp-1         Rp-1	LAXAPO         90:1         PI         98:1         PI<	LOLMEB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PTB0:1PT <th< td=""></th<>

IMPROVING YOUR	VORLD
Duluth, Minneeota 550	lis, inc. I, Sto A 511 2-1052
DULUTH AIRPOR AUTHORITY	T
DULUTH INTERNATIONA AIRPORT DULUTH, MN	AL.
NEW PASSENG TERMINAL	ER
CONSULTANTS	
Interior Architects: <b>SJA ARCHITECTS</b> 11 E Superior Street Suite 340, Duluth TEL: (218) 724-8578 / FAX: (218) 72	MN 55802
Structural Engineers: <b>MBJ CONSULTING E</b> 501 Lake Avenue South, Suite 300, Dulut TEL: (218) 722-1056 / FAX: (218) 72	th MN 55802
M/E/P/FP Engineers: COSENTINI ASSOCIATE 1 South Wacker Drive, 37th Floor, Chica TEL: (312) 201-7408 / FAX: (312) 20	go <b>I</b> L 60606
Baggage Handling Systems Consu BNP ASSOCIATES II 101 East Ridge Office Park, Suite 103, Dan TEL: (203) 792-3000 / FAX: (203) 79	<b>NC.</b> bury CT 06810
Landscaping Consultants: <b>APPOLD DESIGN</b> 2432 East First Street, Duluth MN TEL: (218) 591-5079	
ARCHITECTURAL CERTIFICATION I hereby certify that the architectural specifications or report was prepare or under my direct supervision and a duly licensed Professional Archite the laws of the State of Minnesota. Print Name: Mark Ip	I plans, ed by me that I am
Signature: C Signature: Date: 06-03-10 Reg. No.: 4	.6001
REVISIONS	
NO.     DESCRIPTION       1     ADDENDUM 1       CONFORMANCE SET       3     PERMIT REVISIONS       BUILDING PERMIT	<b>DATE</b> 6.11.10 7.12.10 7.23.10 8.16.10
DATE ISSUED: 08-16-10 Reviewed By, SBS/TC	
DRAWN BY: VO/MKI DESIGNED BY: SBS/TC	
AEP PROJECT NUMB 213-1882-091	ER
© 2010 REYNOLDS, SMITH AND HIL Sheet Title	LS INC.
INTERIOR FINISH SCHEDULES	S
SHEET NUMBER	
<b>A801</b>	
BUILDING PERMIT	_

Drawing: t:\P\2131882.091 Duluth New Terminal\Cad\A\Sheets\A801 Interior Finish Schedules.dwg Plotted on: 8/16/2010 9:55 AM Plotted by: Ip, Mark

# INTEDIOD MATERIAL COLLEDIU E

INTERIOR MATERIAL SCHEDULE											
CODE TAG	MATERIAL	MANUFACTURER	SERIES	COLOR	DIMENSIONS	REMARKS					
MILLWORK											
MLT-1	STAINLESS STEEL										
PL-1	PLASTIC LAMINATE										
PL-2	PLASTIC LAMINATE										
PL-3	PLASTIC LAMINATE										
PL-4	PLASTIC LAMINATE										
QS-1	QUARTZ SURFACING										
QS-2	QUARTZ SURFACING										
SSM-1	SOLID SURFACE										
SSM-2	SOLID SURFACE										
WD	WOOD										
				-		·					

EQUIPMENT SCHEDULE									
MARK	ITEM	QTY	MANUFACTURER	MODEL	COLOR	DESCRIPTION			
E-1									
E-2									
E-3									
E-4									
NOTES									

FINISH NOTES FOR ALL AREAS RECEIVING NEW CONSTRUCTION:

1. ALL WALLS AND COLUMN ENCLOSURES TO BE PAINTED (PT-1) SATIN FINISH, UNLESS OTHERWISE 2. ALL WALLS TO RECEIVE (VB-1) VINYL BASE, UNLESS OTHERWISE NOTED, 3. STEEL DOORS AND FRAMES TO BE PAINTED WITH A SEMI"GLOSS FINISH. ALL PAINTED DOORS AND

TO BE PAINTED TO MATCH ADJACENT WALL OTHERWISE NOTED. WOOD FRAMES TO BE STAINED AND WOOD DOORS ARE TO BE FACTORY PRE-FINISHED TO MATCH (WD-1). 4. ALL FLOOR FINISH TO BE CARPET (CPT-1) UNLESS OTHERWISE NOTED.

5. GENERAL CONTRACTOR AND SUB-CONTRACTOR MUST NOTIFY ARCHITECT OF ANY MATERIALS REQUI LEAD TIMES SO THAT THESE MATERIALS MAY BE ORDERED OR PRE-ORDERED TO ENSURE A TIMELY WITHIN THE OWNER'S CONSTRUCTION SCHEDULE.

6. NEW RESILIENT BASE TO BE 4" HIGH UNLESS OTHERWISE NOTED. RESILIENT BASE TO BE FURNISH A CONTINUOUS ROLL, AND INSTALLED WITH NO JOINTS. IF LENGTH TO BE INSTALLED IS GREATER THA LENGTH OF OF THE LARGEST ROLL, PLACE JOINTS EQUAL DISTANCE FROM EACH OTHER. EXTERIOR ( ARE TO BE FORMED CONTINUOUS WITH SAME COIL STOCK. NO PREFORMED CORNERS AND BACKRES 7. RESILIENT BASE AT CARPET AREAS TO BE FLAT BASE. RESILIENT BASE AT HARD SURFACE FLOORS COVED BASE.

8. PARTITIONS CONCEALED WITH MILLWORK CABINETRY TO BE TAPED, DRYWALL COMPOUND APPLIED, SMOOTHED, AND PRIMED. 9. PROVIDE FINISH COAT OF PAINT AT ALL EXPOSED WALL SURFACE AREAS BEHIND APPLIED MILLWOF

CABINETS, PANELS, ETC. DUE TO REVEALS, JOINTS, OPENINGS, END CONDITIONS, ETC. REVEAL COLOR FLAT BLACK UNLESS OTHERWISE NOTED. 10, ALL ACCESS PLATES, PANELS, BOXES, COVERS, MECH, CUH, BASEBOARD COVERS AND SUPPORTS

FACTORY PRE-FINISHED AND TO RECEIVE SEMI- GLOSS FINISH TO MATCH WALL COLOR. 11. PRIOR TO APPLICATION OF PAINT, ALL SURFACES SHOULD BE PROPERLY PREPARED, TAPED, AND 12. ALL GYPSUM REVEALS, CORNERS, AND TRANSITIONS TO BE FORMED WITH PVC FINISH BEADS. ALL

ARE TO BE TAPED, DRYWALL COMPOUND APPLIED, AND SANDED SMOOTH. 13. FINISH FLOOR MATERIAL TO BE INSTALLED UNDER ALL MILLWORK. FLOOR FINISH TO RUN UP TO AND BUT INTO KNEE SPACES. BASE OF ROOM TO BE APPLIED TO CABINET AND EXPOSED CABINET BE FINISHED SAME AS CABINET BODY.

14. TRANSITIONS BETWEEN DISSIMILAR FLOOR FINISHES TO ALIGN UNLESS OTHERWISE NOTED. CONTRA RESPONSIBLE FOR ANY REQUIRED FLOOR LEVELING REQUIRED TO COMPLETE A QUALITY INSTALLATION. FLOORING CONTRACTOR IS RESPONSIBLE FOR LEVELING,

15. TRANSITIONS OCCURRING IN A DOOR OPENING SHALL BE INSTALLED SO THE TRANSITION OCCURS THE CENTER LINE OF OF THE DOOR IN THE CLOSED POSITION, 16, PROVIDE RESILIENT TRANSITION STRIPS AT ALL CARPETI HARD SURFACE TRANSITIONS, FLOORING

TO SUBMIT MANUFACTURER'S FULL LINE OF AVAILABLE COLORS FOR ARCHITECTS APPROVAL, 17. FLOORING CONTRACTOR TO PROVIDE CARPET SEAMING DIAGRAM TO ARCHITECT FOR REVIEW PRIOF CUTTING OR INSTALLATION.

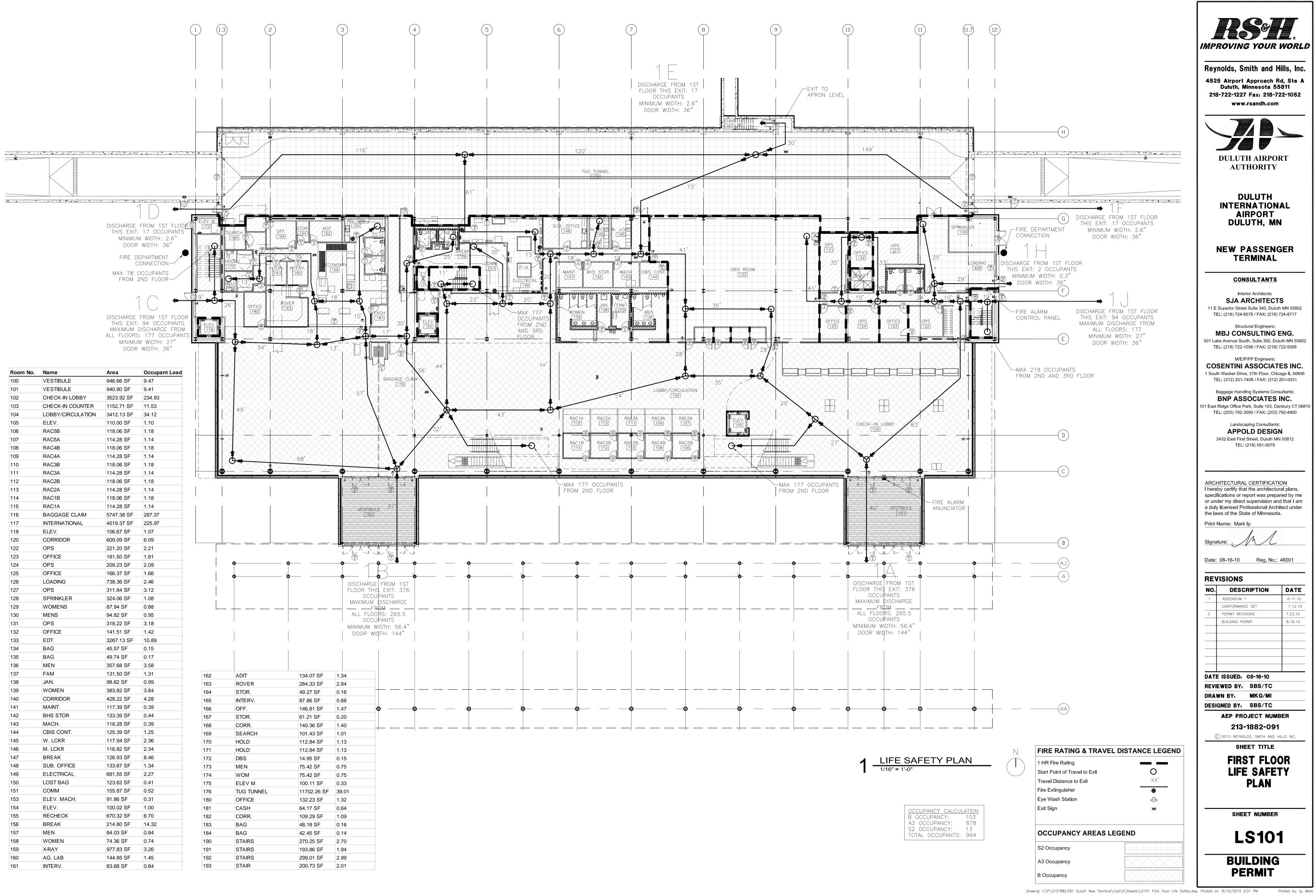
18. REFER TO REFLECTED CEILING DRAWINGS FOR CEILING FINISHES AND LOCATIONS, HEIGHTS, ETC, 19. ALL EXISTING DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL BOTH INTERIOR AN EXTERIOR SIDES. EXISTING STAINED DOORS ARE TO BE TOUCH STAINED AND REVARNISHED. 20. PAINT ALL EXPOSED DUCTWORK, CONDUIT, PIPES, AND MECHANICAL ELECTRICAL EQUIPMENT.

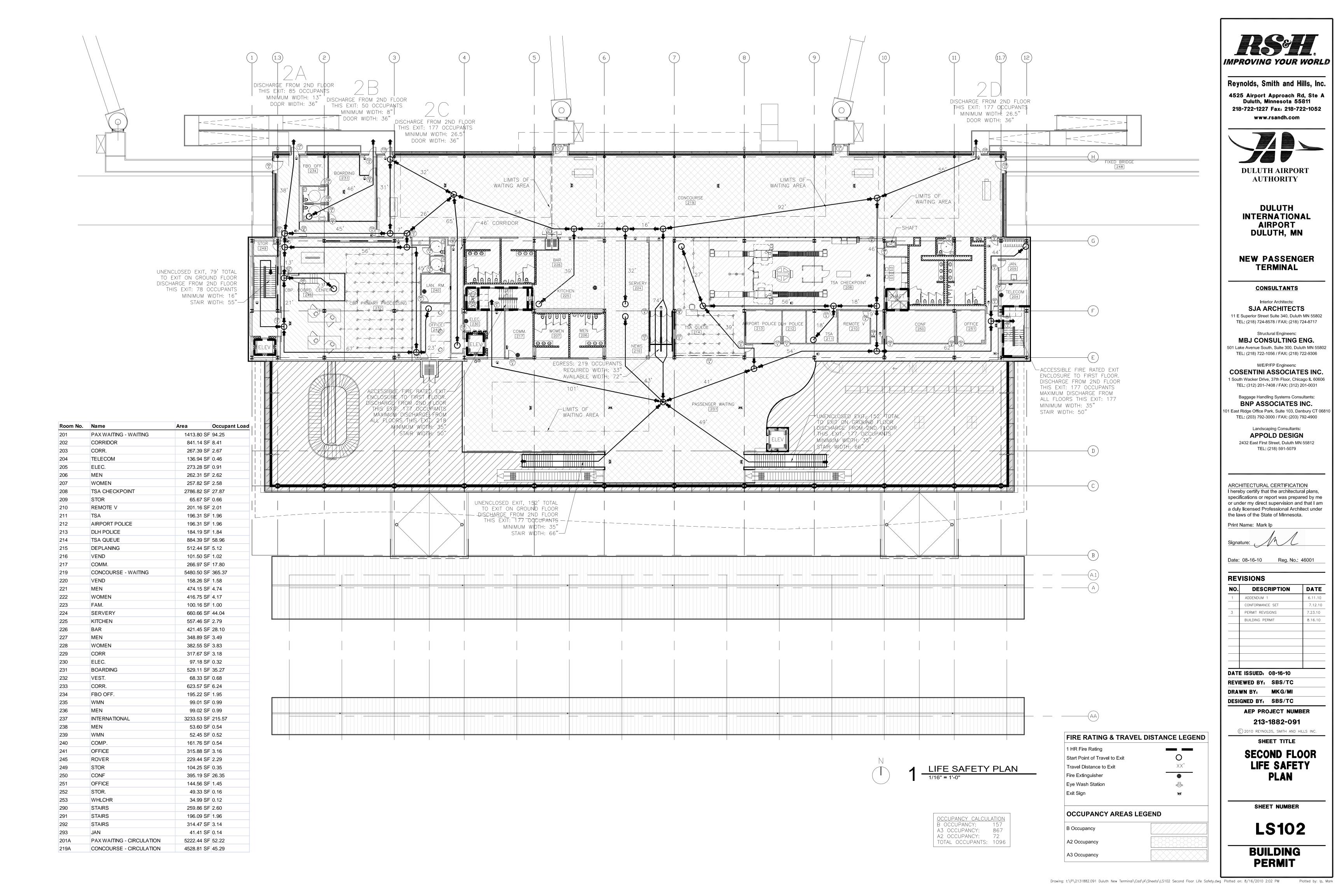
21. STAIRS: PAINT ALL EXPOSED METAL INCLUDING, BUT NOT LIMITED TO STRINGERS. RISERS, AND TREAD PANS,

NOTED.
D FRAMES VARNISHED,
JIRING LONG COMPLETION
SHED FROM HAN THE CORNERS ST. 25 TO BE
SANDED,
DRK, FILE PR TO BE
S TO BE
D SANDED. L BEADS
) CABINET AND SHALL
RACTOR IS N. THE
S UNDER
CONTRACTOR
DR TO
AND

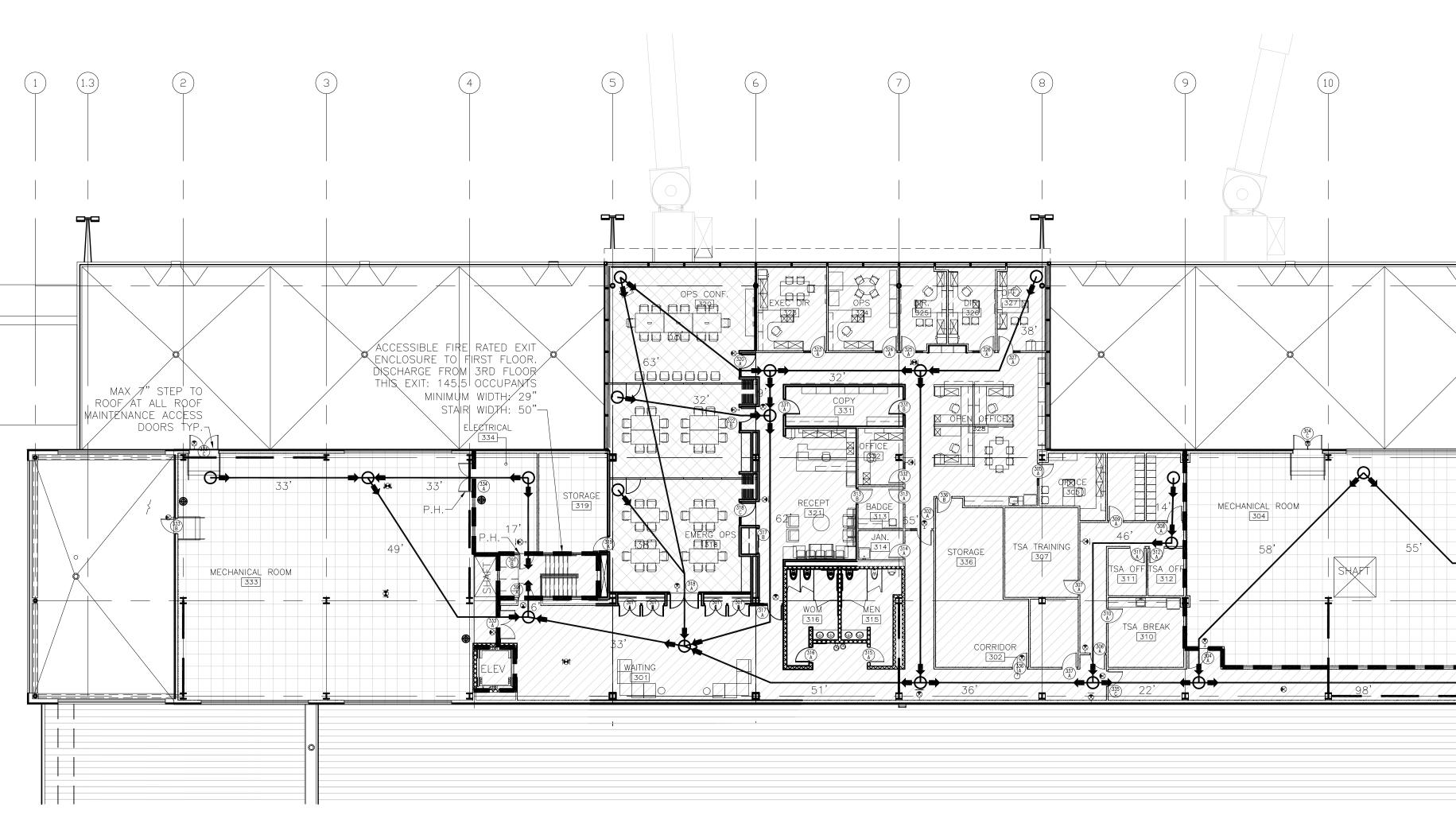
CPT-2 CPT-3				COLOR	DIMENSIONS	REMARKS
CPT-2 CPT-3						
CPT-2 CPT-3	BROADLOOM					GENERAL AREAS
	CARPET TILE					PUBLIC AREAS
PT-4	CARPET TILE					PUBLIC AREAS
	BROADLOOM					ADMIN LEVEL - OFFICES
	BROADLOOM					ADMIN LEVEL - CONF R
	FLOOR TOPPING- FLAKE COATING SYSTEM					ANCILLARY SPACES
T-2	FLOOR TOPPING- FLAKE COATING					ANCILLARY SPACES
	SYSTEM					
	RESILIENT FLOORING RESILIENT FLOORING					
	RESILIENT FLOORING					
	SEALED CONCRETE - NO STAIN					
	SEALED CONCRETE - STAINED					
ER-1	TERRAZZO FLOORING					
R-2	TERRAZZO FLOORING					
ER-3	TERRAZZO FLOORING					
	TERRAZZO FLOORING					
	PORCELAIN TILE- FLOOR					
T-2	PORCELAIN TILE- FLOOR					
		<u> </u>		<b>I</b>	<u> </u>	
SE						
	RUBBER BASE- STANDARD PROFILE					
	RUBBER BASE- UPGRADED PROFILE					
	STAINLESS STEEL BASE					
VB	WOOD BASE					
LLS						
)P-1	DECORATIVE PANELS- WOOD					
DP-2	DECORATIVE PANELS- WOOD					
	DECORATIVE PANELS- METAL					
	DECORATIVE PANELS- METAL					
	FIBERGLASS REINFORCED PANEL					
	EXTERIOR GLAZING SYSTEM					
	INTERIOR GLAZING- NO PATTERN GUARDRAIL GLASS					
	LAMINATED DECORATIVE GLASS W/ DOUBLE LAYER CUSTOM GRAPHIC					
GT-1	GLASS MOSAIC TILE					
GT-2	GLASS MOSAIC TILE					
PT	PAINT (NOT TO EXCEED 20 COLORS)					
T-3	PORCELAIN TILE- WALL					
	PORCELAIN TILE- WALL					
	PORCELAIN TILE- WALL					
	PORCELAIN TILE- WALL					
V F	WALL PROTECTION - RIGID SHEET VINYL					
		ł	l		I	
				I		
	SUSPENDED LINEAR METAL CEILING WOOD GRILLE CEILING SYSTEM			<b> </b>		
	MINERAL FIBER CEILING TILE					ANCILLARY SPACES
	WATERPROOF GYP BD- PAINTED					
	MINERAL FIBER CEILING TILE					ADMIN LEVEL
	GYP BD PAINTED					
	REINFORCED GYP BD PAINTED					
:L-7	EXPOSED CEILING - UNFINISHED					







Room No.	Name	Area	Occupant Load
301	WAITING	1301.22 SF	13.01
302	CORRIDOR	831.55 SF	8.32
304	MECHANICAL ROOM	3774.52 SF	12.58
305	STORAGE	199.26 SF	0.66
306	CORR.	245.29 SF	2.45
307	TRAINING	302.66 SF	20.18
308	W. LCKR	134.74 SF	2.69
309	M. LCKR	130.31 SF	2.61
310	BREAK	245.58 SF	16.37
311	OFFICE	77.47 SF	0.77
312	OFFICE	74.00 SF	0.74
313	COMM/ELEC.	147.73 SF	0.49
314	JAN.	61.81 SF	0.21
315	MEN	248.04 SF	2.48
316	WOM	207.97 SF	2.08
317	CORR.	721.07 SF	7.21
318	EMERG OPS	1325.01 SF	88.33
319	STORAGE	320.82 SF	1.07
320	OPS CONF.	799.93 SF	53.33
321	RECEPT	231.70 SF	2.32
322	BADGE	92.19 SF	0.92
323	EXEC DIR	308.06 SF	3.08
324	OPS	278.92 SF	2.79
325	DIR.	210.79 SF	2.11
326	DIR.	199.52 SF	2.00
327	OFF.	220.45 SF	2.20
328	OPEN OFFICE	723.85 SF	7.24
331	COPY	219.82 SF	2.20
332	OFFICE	131.94 SF	1.32
333	MECHANICAL ROOM	3471.63 SF	11.57
334	ELECTRICAL	297.79 SF	0.99
335	CORRIDOR	967.01 SF	9.67
336	UNUSED	733.02 SF	2.44
390	STAIRS	283.02 SF	2.83
391	STAIRS	208.30 SF	2.08

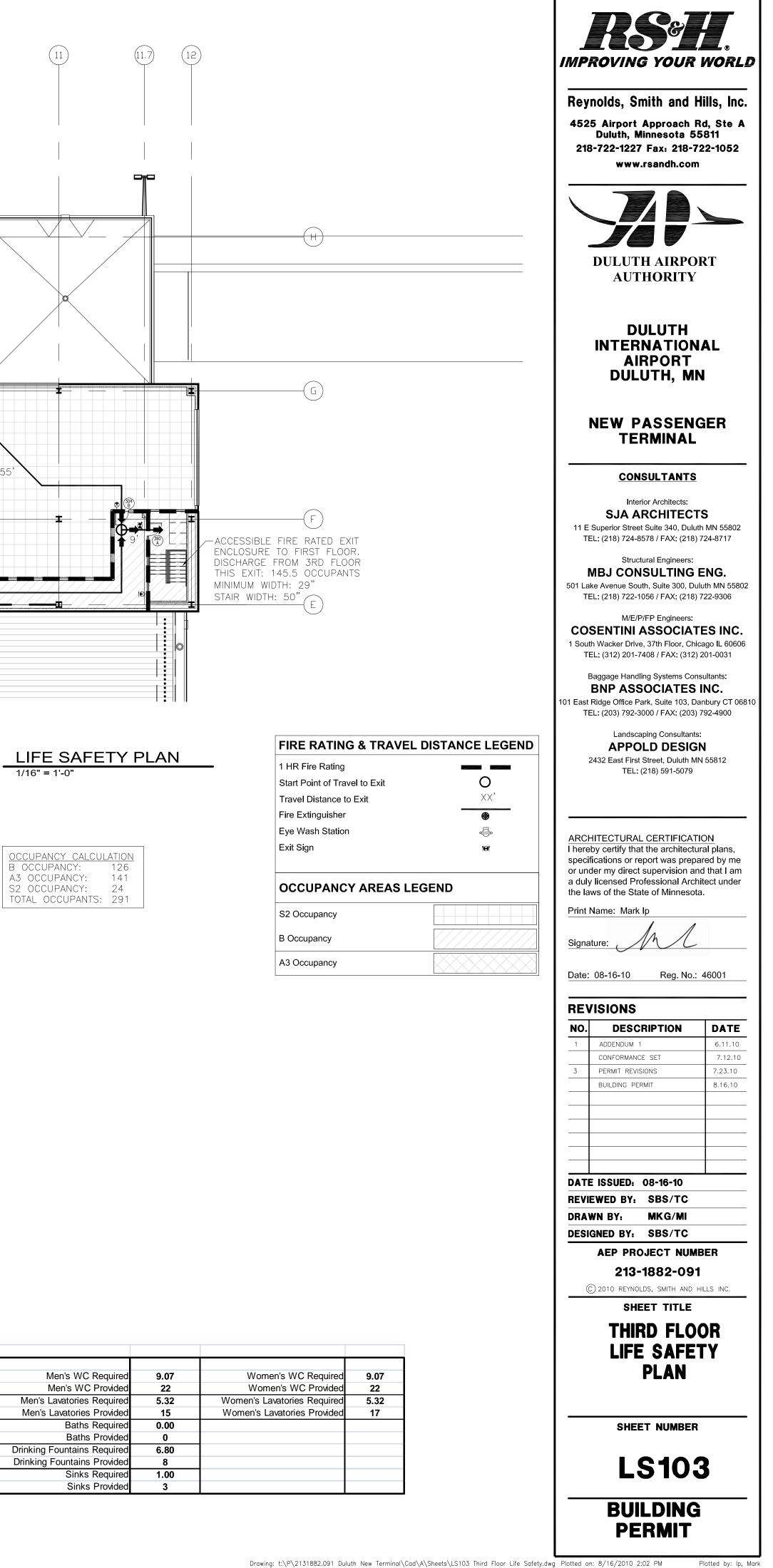


	RSH						
			ARCHITECTURA				
	Reynolds, Smith and Hills, Inc.			ALUATION			
		Duluth International Airport					
		2131882.091					
		10/2/2009	Prepared by:	Mark Ip			
_	APPLICABLE CODE(S):						
_		Life Safety: IBC-2006, 2007 MSBC		Mechanical: IMC-2006			
		Accessibilty: IBC-2006, (ANSI/ICC) ADA, 2007 Minn Ac	cc. Code	Gas: IFGC-2006			
		Building Code: IBC-2006, 2007 MSBC		Electric: ICC EC-2006			
		Plumbing Code: IPC-2006, Minn. Plumbing Code, Ch. 4	715	Other:			
	BUILDING DATA						
		1. Total Gross Square Feet	101,625	6. Sprinklered	Y		
		2. Number of Floors	3	7. Open Space - Area Mod.	Y		
		3. Height of Building	51	a. If yes, Building Perimeter	1077		
		4. Design Occupant Load	2976.93	b. Perim. w. min 20' open space	1077		
		5. GLA	2601.00	8. OLF	25.18		
	CODE REVIEW		Reference Notes				
1	Classification Of Occupancy:						
Ī	1. Occupancy Type 1	Assembly for worship/recreation/amusement (A-3)	Ref 302	See section 508 for occupancy sep	paration req.		
	2. Occupancy Type 2	Business (B)			·		
	3. Occupancy Type 3	Storage Low Hazard (S-2)					
	4. Occupancy Type 4	Assembly for food consumption (A-2)					
	5. Occupancy Type 5	·······					
	6. Governing Occupancy	Assembly for worship/recreation/amusement (A-3)					
	Construction Type:	II-B	Ref 602	Noncombustible Frame, Walls, Flo	or Roof		
-	Area Limitation:	Unlimited	Ref Chap 5	Covered Mall Occupancy, ref 40			
-	Height Limitation:	55	Ref Chap 5		2.1		
-	Maximum number of Floors:	3	Ref Chap 5	Covered Mall Occupancy, ref 40	0 1		
	Fire Protective Requirements:	5	Ref 601/Chap 7	Note: FP adjusted for const. type 8			
_	•	0	•	Note. FF adjusted for const. type a	x spinklers		
	1. Structural Frame	0	Ref 601/Chap 7				
_	Supporting Roof Only	0	Ref 601/Chap 7				
_	2. Bearing Walls						
	Exterior	0	Ref 601/Chap 7				
_		0	Ref 601/Chap 7				
	Supporting Roofs Only	0	Ref 601/Chap 7				
_	3. Nonbearing Walls/Partitions				· <del>-</del>		
	Exterior <5' Separation	1	Ref Table 602	Note: Adjusted for Group and Cons	t lype		
	Exterior 5'-9' Separation	1	Ref Table 602				
	Exterior 10'-29' Separation	0	Ref Table 602				
	Exterior >30' Separation	0	Ref Table 602				
_	Interior	1hr between tenants	Ref Table 602	Ref: 708.4 partitions to underside o	f ceiling		
	4. Floor Construction	0	Ref 601/Chap 7				
_	5. Roof Construction	0	Ref 601/Chap 7				
	6. Corridors	0 hr if occupant load is >30	Ref 1016.1				
_	7. Stair/Ramp Enclosures	1 hr, see 1020 for exceptions	Ref 1020/706				
		· •					
	8. Elevator Enclosures	1 hr, see 707 for details	Ref 707.4	Elevator 103 not required to be i	rated.		

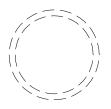
I	CODE REVIEW (cont.)		Reference	Notes
G	Occupant Load			
	1. Design Occupant Load	3499.48	Ref 1004.1	
	2. GLA	2601.00	Ref 402.4	
	3. OLF	25.18	Ref 402.4	
_	Means Of Egress	23.10	Ref Chap 10	Ref 1025 for Assembly Occupancies
	1. Minimum Egress Width	525 inches	Ref 1005.1	0.15 inches x 3500 occupants
	2. Minimum Ligress whath		Ref 1019.2	Ref 1019.1 for req. exits by room
		2 12	Rei 1019.2	
	- Actual number of exits	12		Ref 1018.2 for single exit requirements
	3. Capacity of each Exit			
	- Width of each Exit	36		
_	- Total Exit Width	576 inches	D-( 100 4 4	Max Taxaal Distance to Dait on Mall
	4. Maximum travel Distance (ft		Ref 402.4.4	Max Travel Distance to Exit or Mall
	5. Dead End Corridor Limit	A: 20', B: 50'	Ref 1017.3	See ref for Group I occupancies
	6. Min. Corridor Width	44"	Ref 1017.2	For Exit Passageway corridor, see H8 below
	7. Interior Corridor Rating	0 hr if occupant load is >30	Table 1017.1	
	8. Exit Passageway		D ( 400)	
	a. Width	min 44	Ref 1021	
	b. Fire Rating	Min 1hr or match adjacent if higher	Ref 1021.3	
_	c. Door rating	1/3 hr		
	9. Ramps			
	a. Minimum Width	36" min., not less than corridors.	Ref 1010.5.1	
	b. Maximum Slope	1:12 (8%) for egress, 1:8 (12.5%) other	Ref 1010.2	
	c. Height Between Landings	30"	ref 1010.4	
	10. Doorways:			
	a. Minimum Number	See 1015.1 for requirements for each room	Ref 1015.1	
	b. Door Size	Min 32"	Ref 1008.1.1	
	c. Special Size Rqts.	See 1008.1.1 for exceptions	Ref 1008.1.1	
	11. Horizontal Exit:			
	a. Separation	Ref 705, 706 for separations	Ref 1022.2	
	b. Fire Rating	2 hr	Ref 1022.2	
	c. Area Of Refuge	3 sf per occupant, see references	Ref 1022.4	
	12. Exit Stairways:			
	a. Capacity	See references	Ref 1009/1019	
	b. Width	min 44	Ref 1009/1005	Note: Adjusted for max Occupants
	c. Min. Headroom	80"	Ref 1009.2	
	d. Max. Ht. Between Landi	12'	Ref 1009.6	
	e. Max. Riser Height	7"	Ref 1009.3	
	f. Min. tread width	11"	Ref 1009.3	
	g. Door Rating	1 hr	Ref 715.4	
	h. Enclosure	1 hr, see 1020 for exceptions	Ref 1020/706	
	I. Smokeproof tower	Req'd if flr > 75' above or >30' below exit discharge	Ref 1020.1.7	
	j. Handrails	1.25" - 2" dia. W. 1.5" clearance W. 12" extension	Ref 1012	See also 1607.7
	13. Interior Finishes		Ref Chap 8	
	a. Exits, Vertical & Passag	В	Ref 803.5	
	b. Exit Access Corr.	В	Ref 803.5	
	c. Rooms & Enclosed	С	Ref 803.5	
I	Compartmentalized Areas:	For floors > 60' below exit discharge, see Ref	Ref 405.1	
J	Protection of Vert.Openings	Fire door Ref 715.3	Ref 1020.1.1	
	Exit Lighting	Min. 1 fc (11lux) along egress, see ref for exceptions	Ref 1006	
	Extinguishment Requirements	Provide portable extinguishers req'd by IFC-2003	Ref 906	
M	Mech.Conveyance (Vertical)	See references	Ref 3005	

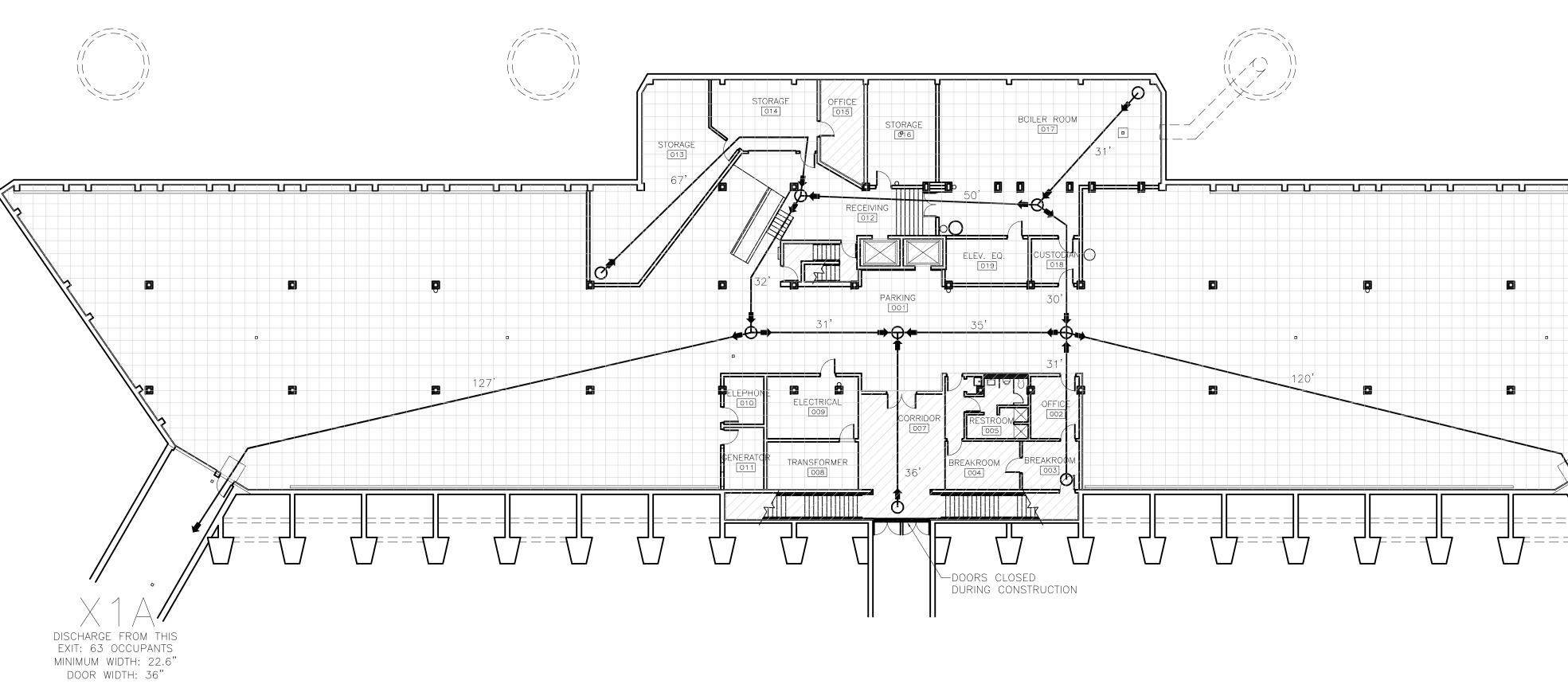
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IV	PLUMBING CODE REVIEW	
Α	Min. Plumbing Fixture Req'ts:	
	1. Water Closets	
	2. Lavatories	Me
		Me
	3. Baths	
	<ol><li>Drinking Fountains</li></ol>	Drink
		Drink
	5. Sinks	

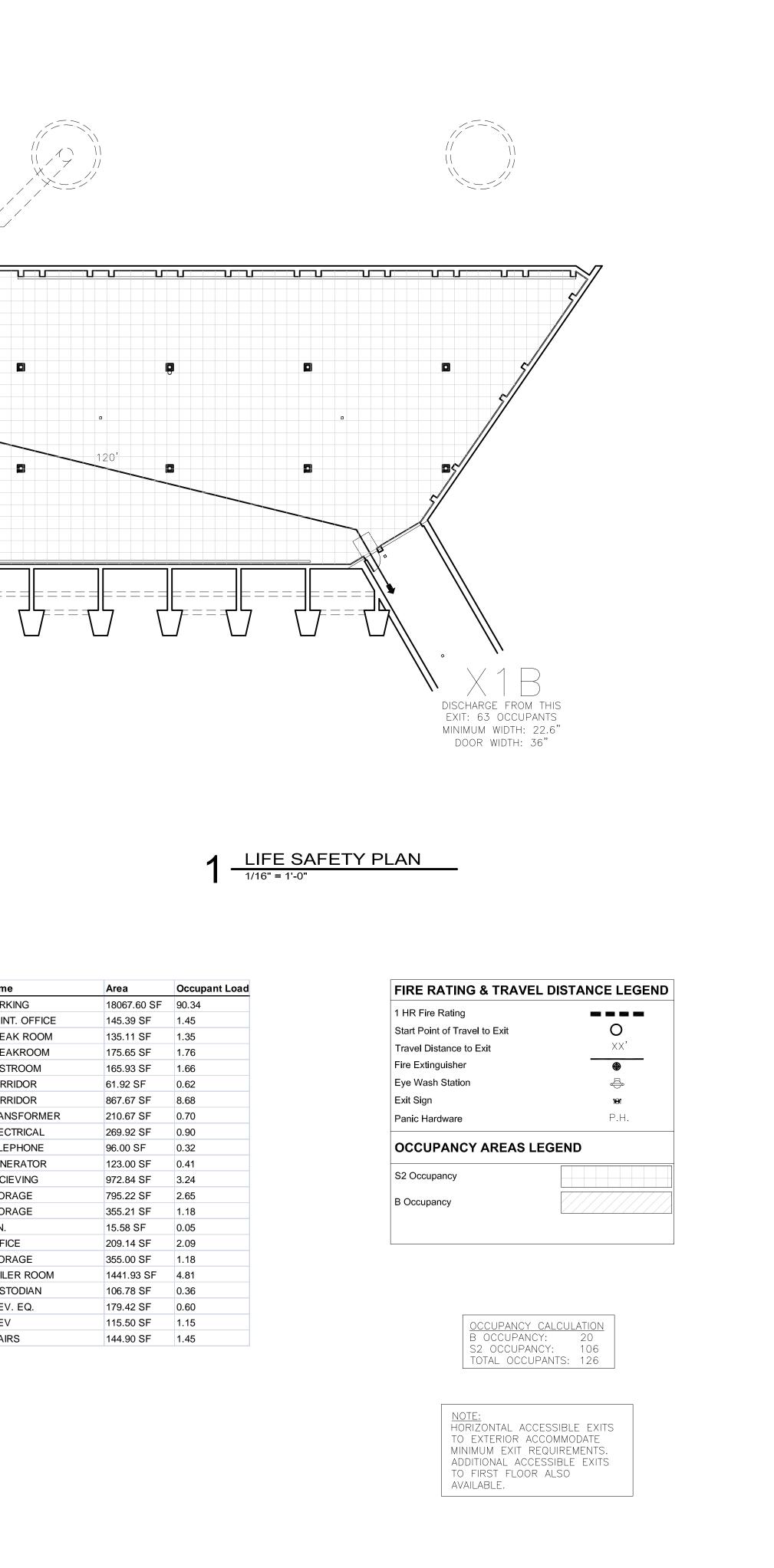


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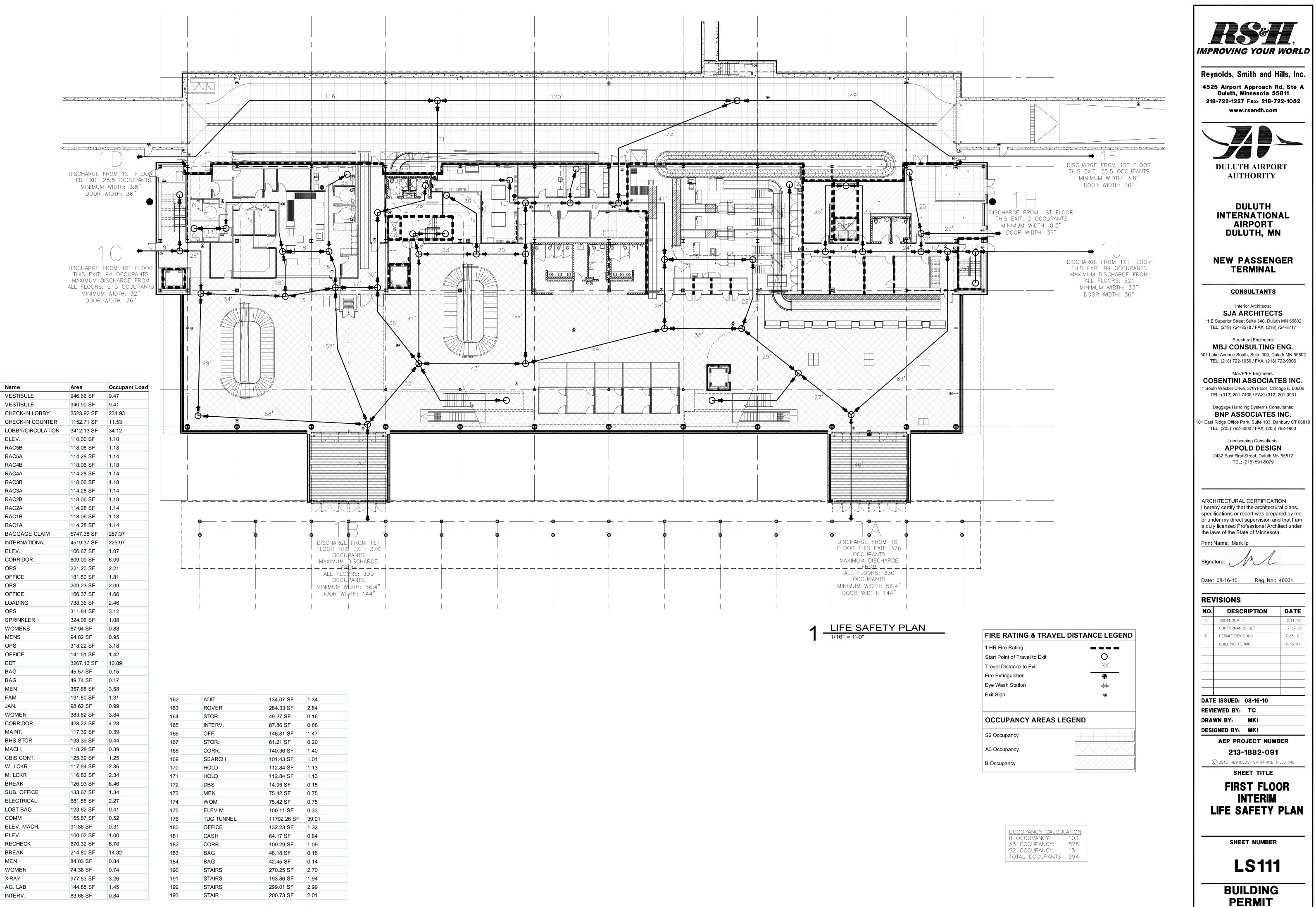
Room No.	Name	Area	Occupant Load
1	PARKING	18067.60 SF	90.34
2	MAINT. OFFICE	145.39 SF	1.45
3	BREAK ROOM	135.11 SF	1.35
4	BREAKROOM	175.65 SF	1.76
5	RESTROOM	165.93 SF	1.66
6	CORRIDOR	61.92 SF	0.62
7	CORRIDOR	867.67 SF	8.68
8	TRANSFORMER	210.67 SF	0.70
9	ELECTRICAL	269.92 SF	0.90
10	TELEPHONE	96.00 SF	0.32
11	GENERATOR	123.00 SF	0.41
12	RECIEVING	972.84 SF	3.24
13	STORAGE	795.22 SF	2.65
14	STORAGE	355.21 SF	1.18
15	JAN.	15.58 SF	0.05
15	OFFICE	209.14 SF	2.09
16	STORAGE	355.00 SF	1.18
17	BOILER ROOM	1441.93 SF	4.81
18	CUSTODIAN	106.78 SF	0.36
19	ELEV. EQ.	179.42 SF	0.60
20	ELEV	115.50 SF	1.15
21	STAIRS	144.90 SF	1.45



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NEW PASSENG Terminal	iER
CONSULTANTS	
Interior Architects: <b>SJA ARCHITECTS</b> 11 E Superior Street Suite 340, Duluth	MN 55802
TEL: (218) 724-8578 / FAX: (218) 7 Structural Engineers: <b>MBJ CONSULTING E</b> 01 Lake Avenue South, Suite 300, Dulu	NG.
TEL: (218) 722-1056 / FAX: (218) 7 M/E/P/FP Engineers: COSENTINI ASSOCIATE	
1 South Wacker Drive, 37th Floor, Chica TEL: (312) 201-7408 / FAX: (312) 2	ago IL 60606
Baggage Handling Systems Const BNP ASSOCIATES I	
East Ridge Office Park, Suite 103, Dar TEL: (203) 792-3000 / FAX: (203) 7	bury CT 06810
Landscaping Consultants: APPOLD DESIGN	1
2432 East First Street, Duluth MN TEL: (218) 591-5079	-
ARCHITECTURAL CERTIFICATIO	al plans,
specifications or report was prepar	eu by me
a duly licensed Professional Archit	ect under
a duly licensed Professional Archit he laws of the State of Minnesota	ect under
a duly licensed Professional Archit the laws of the State of Minnesota. Print Name: Mark Ip	ect under
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a duly licensed Professional Archit the laws of the State of Minnesota. Print Name: Mark Ip Signature: MARK Ip Date: 07-23-10 Reg. No.: 4 REVISIONS NO. DESCRIPTION 1 ADDENDUM 1 CONFORMANCE SET 3 PERMIT REVISIONS BUILDING PERMIT BUILDING PERMIT BUILDING PERMIT DATE ISSUED: 08-16-10 REVIEWED BY: TC DRAWN BY: MI DESIGNED BY: TC AEP PROJECT NUMB 213-1882-091 © 2010 REYNOLDS, SMITH AND HI SHEET TITLE EXISTING BASEMENT LIFE SAFET PLAN	A6001 DATE 6.11.10 7.23.10 8.16.10 8.16.10 B.16.10 B.16.10 C.12.10 7.23.10 8.16.10 C.12.10 7.23.10 8.16.10 C.12.10

Plotted by: Ip, Mark



105       EL         106       RA         107       RA         108       RA         109       RA         110       RA         111       RA         112       RA         113       RA         114       RA         115       RA         116       BA         117       INT         118       EL         120       CO	LEV. AC5B AC5A AC4B AC4A AC3B AC3A AC2B AC2A AC1B AC1A AGGAGE CLAIM TERNATIONAL	110.00 SF 118.06 SF 114.28 SF 118.06 SF 114.28 SF 118.06 SF 114.28 SF 114.28 SF 114.28 SF 114.28 SF 114.28 SF 114.28 SF	34.12 1.10 1.18 1.14 1.18 1.14 1.18 1.14 1.18 1.14 1.18 1.14 1.18 1.14 1.18 1.14 1.18 1.14
106       RA         107       RA         108       RA         109       RA         110       RA         111       RA         112       RA         113       RA         114       RA         115       RA         116       BA         117       IN         118       EL         120       CO	AC5B AC5A AC4B AC4A AC3B AC3A AC3A AC2B AC2A AC1B AC1A AC1A AGGAGE CLAIM TERNATIONAL	118.06 SF 114.28 SF 118.06 SF 114.28 SF 118.06 SF 114.28 SF 118.06 SF 114.28 SF 118.06 SF 118.06 SF 114.28 SF	1.18         1.14         1.18         1.14         1.18         1.14         1.18         1.14         1.18         1.14         1.18         1.14         1.18         1.14         1.18         1.14         1.18
107       RA         108       RA         109       RA         110       RA         111       RA         112       RA         113       RA         114       RA         115       RA         116       BA         117       INT         118       EL         120       CO	AC5A AC4B AC4A AC3B AC3A AC2B AC2B AC2A AC1B AC1A AGGAGE CLAIM TERNATIONAL	114.28 SF 118.06 SF 114.28 SF 118.06 SF 114.28 SF 118.06 SF 114.28 SF 118.06 SF 114.28 SF	1.14         1.18         1.14         1.18         1.14         1.18         1.14         1.18         1.18         1.18         1.18         1.18         1.18         1.18         1.14
108         RA           109         RA           110         RA           111         RA           111         RA           112         RA           113         RA           114         RA           115         RA           116         BA           117         INT           118         EL           120         CO	AC4B AC4A AC3B AC3A AC2B AC2A AC1B AC1A AGGAGE CLAIM TERNATIONAL	118.06 SF 114.28 SF 118.06 SF 114.28 SF 118.06 SF 114.28 SF 118.06 SF 118.06 SF 114.28 SF	1.18 1.14 1.18 1.14 1.14 1.18 1.14 1.18
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110       RA         111       RA         112       RA         113       RA         114       RA         115       RA         116       BA         117       INT         118       EL         120       CO	AC3B AC3A AC2B AC2A AC1B AC1A AGGAGE CLAIM TERNATIONAL	118.06 SF 114.28 SF 118.06 SF 114.28 SF 118.06 SF 118.06 SF 114.28 SF	1.18 1.14 1.18 1.14 1.14 1.18
111       RA         112       RA         113       RA         114       RA         115       RA         116       BA         117       INT         118       EL         120       CO	AC3A AC2B AC2A AC1B AC1A AGGAGE CLAIM TERNATIONAL	114.28 SF 118.06 SF 114.28 SF 118.06 SF 114.28 SF	1.14 1.18 1.14 1.18
112       RA         113       RA         114       RA         115       RA         116       BA         117       INT         118       EL         120       CO	AC2B AC2A AC1B AC1A AGGAGE CLAIM TERNATIONAL	118.06 SF 114.28 SF 118.06 SF 114.28 SF	1.18 1.14 1.18
113       RA         114       RA         115       RA         116       BA         117       INT         118       EL         120       CC	AC2A AC1B AC1A AGGAGE CLAIM TERNATIONAL	114.28 SF 118.06 SF 114.28 SF	1.14 1.18
114         RA           115         RA           116         BA           117         IN           118         EL           120         CC	AC1B AC1A AGGAGE CLAIM TERNATIONAL	118.06 SF 114.28 SF	1.18
115     RA       116     BA       117     INT       118     EL       120     CC	AC1A AGGAGE CLAIM TERNATIONAL	114.28 SF	
116         BA           117         IN           118         EL           120         CC	AGGAGE CLAIM TERNATIONAL		1.14
117         IN           118         EL           120         CC	TERNATIONAL	5747.38 SF	
118 EL 120 CC	_		287.37
120 CC		4519.37 SF	225.97
	EV.	106.67 SF	1.07
122 OF	DRRIDOR	609.09 SF	6.09
	PS	221.20 SF	2.21
123 OF	FICE	181.50 SF	1.81
124 OF	ps	209.23 SF	2.09
125 OF	FICE	166.37 SF	1.66
			2.46
			3.12
		324.06 SF	1.08
			0.88
			0.95
		318.22 SF	3.18
	FICE	141.51 SF	1.42
133 ED		3267.13 SF	10.89
			0.15
135 BA			0.17
			3.58
	AM	131.50 SF	1.31
			0.99
			3.84
			4.28
	AINT.		0.39
	IS STOR		0.44
	ACH.		0.39
	BIS CONT.	125.39 SF	1.25
	. LCKR	117.94 SF	2.36
	LCKR		2.34
	REAK	126.93 SF	8.46
	JB. OFFICE	133.67 SF	1.34
			2.27
	DST BAG DMM		0.41 0.52
			0.31
	EV.	100.02 SF	1.00
			6.70
		214.80 SF	14.32
			0.84
			0.74
			3.26
	G. LAB	144.85 SF	1.45
161 IN	TERV.	83.68 SF	0.84

Room No. Name

100

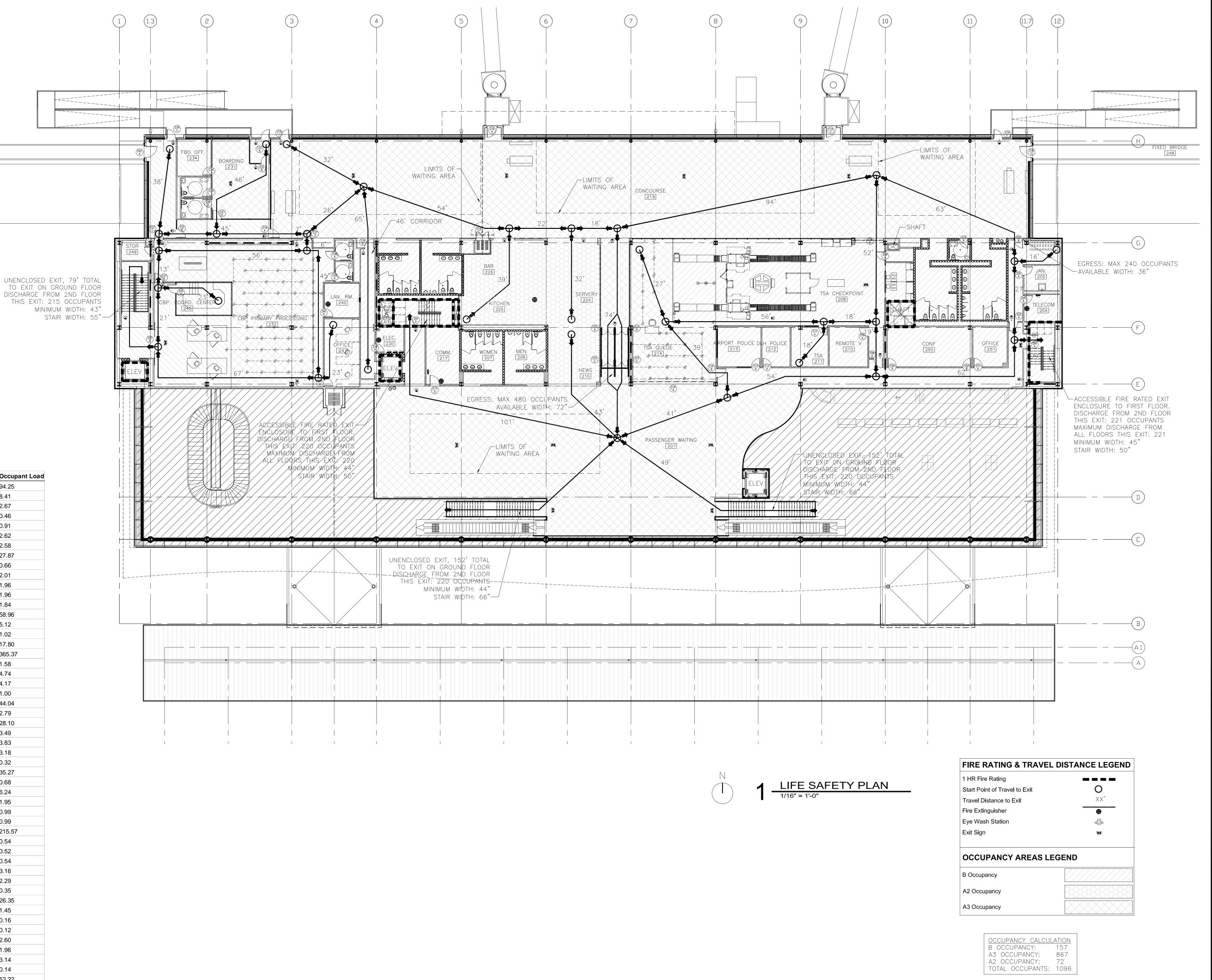
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103

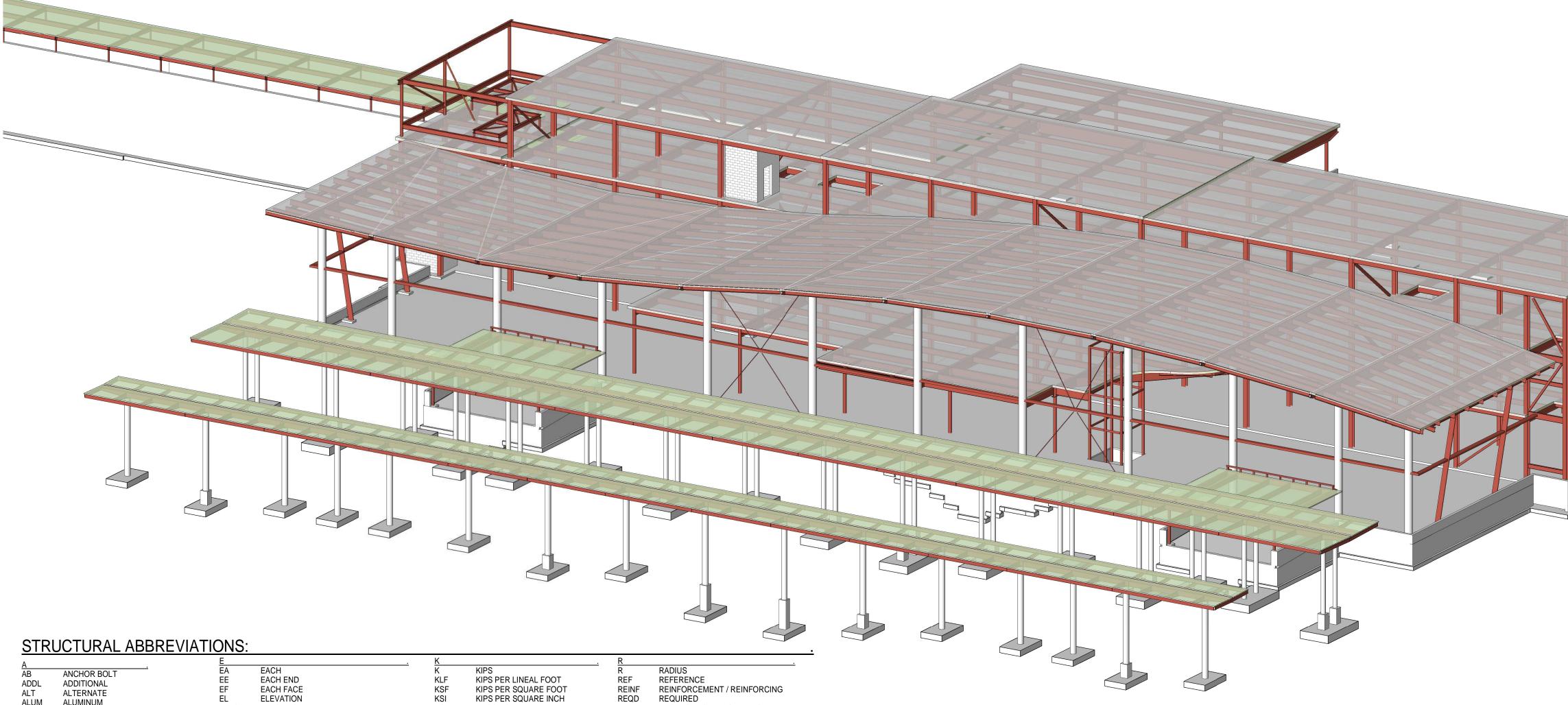
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165	INTERV.	87.86 SF	0.88
166	OFF.	146.81 SF	1.47
167	STOR.	61.21 SF	0.20
168	CORR.	140.36 SF	1.40
169	SEARCH	101.43 SF	1.01
170	HOLD	112.84 SF	1.13
171	HOLD	112.84 SF	1.13
172	DBS	14.95 SF	0.15
173	MEN	75.42 SF	0.75
174	WOM	75.42 SF	0.75
175	ELEV M	100.11 SF	0.33
176	TUG TUNNEL	11702.26 SF	39.01
180	OFFICE	132.23 SF	1.32
181	CASH	64.17 SF	0.64
182	CORR.	109.29 SF	1.09
183	BAG	48.18 SF	0.16
184	BAG	42.45 SF	0.14
190	STAIRS	270.25 SF	2.70
191	STAIRS	193.86 SF	1.94
192	STAIRS	299.01 SF	2.99
193	STAIR	200.73 SF	2.01

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Room No.	Name	Area	Occupant Loa
201	PAX WAITING - WAITING	1413.80 SF	94.25
202	CORRIDOR	841.14 SF	8.41
203	CORR.	267.39 SF	2.67
204	TELECOM	136.94 SF	0.46
205	ELEC.	273.28 SF	0.91
206	MEN	262.31 SF	2.62
207	WOMEN	257.82 SF	2.58
208	TSA CHECKPOINT	2786.82 SF	27.87
209	STOR	65.67 SF	0.66
210	REMOTE V	201.16 SF	2.01
211	TSA	196.31 SF	1.96
212	AIRPORT POLICE	196.31 SF	
213	DLH POLICE	184.19 SF	
214	TSA QUEUE	884.39 SF	58.96
215	DEPLANING	512.44 SF	
216	VEND	101.50 SF	
217	COMM.	266.97 SF	-
219	CONCOURSE - WAITING	5480.50 SF	
219	VEND	158.26 SF	
220	MEN	474.15 SF	
222	WOMEN	416.75 SF	
223	FAM.	100.16 SF	
224	SERVERY	660.66 SF	-
225	KITCHEN	557.46 SF	
226	BAR	421.45 SF	
227	MEN	348.89 SF	
228	WOMEN	382.55 SF	
229	CORR	317.67 SF	
230	ELEC.	97.18 SF	
231	BOARDING	529.11 SF	35.27
232	VEST.	68.33 SF	
233	CORR.	623.57 SF	6.24
234	FBO OFF.	195.22 SF	1.95
235	WMN	99.01 SF	0.99
236	MEN	99.02 SF	0.99
237	INTERNATIONAL	3233.53 SF	215.57
238	MEN	53.60 SF	0.54
239	WMN	52.45 SF	0.52
240	COMP.	161.76 SF	0.54
241	OFFICE	315.88 SF	3.16
245	ROVER	229.44 SF	2.29
249	STOR	104.25 SF	0.35
250	CONF	395.19 SF	26.35
251	OFFICE	144.56 SF	1.45
252	STOR.	49.33 SF	0.16
253	WHLCHR	34.99 SF	0.12
290	STAIRS	259.86 SF	
291	STAIRS	196.09 SF	
292	STAIRS	314.47 SF	
292	JAN	41.41 SF	
200		5222.44 SF	
201A	PAX WAITING - CIRCULATION		5/ //

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	DULUTH AIRPOR AUTHORITY	T	
	DULUTH INTERNATIONA AIRPORT DULUTH, MN	AL.	
	NEW PASSENG Terminal	ER	
	CONSULTANTS		
	Interior Architects: SJA ARCHITECTS		
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	Structural Engineers:		
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TI	EL: (218) 722-1056 / FAX: (218) 72 M/E/P/FP Engineers:	22-9306	
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	Ridge Office Park, Suite 103, Dan EL: (203) 792-3000 / FAX: (203) 79	bury CT 06810	
	Landscaping Consultants:		
	<b>APPOLD DESIGN</b> 2432 East First Street, Duluth MN TEL: (218) 591-5079		
l here speci or un a dul <u>y</u> the la	HITECTURAL CERTIFICATIC by certify that the architectura fications or report was prepar- der my direct supervision and y licensed Professional Archite ws of the State of Minnesota. Name: Mark Ip	al plans, ed by me that I am	
Signa	sture: MA		
oigne			
Date:	08-16-10 Reg. No.: 4	6001	
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<b>NO.</b>	ADDENDUM 1	<b>DATE</b> 6.11.10	
3	CONFORMANCE SET PERMIT REVISIONS	7.12.10 7.23.10	
	BUILDING PERMIT	8.16.10	
	E ISSUED: 08-16-10		
REVI	EWED BY: TC		
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B BDE BLDG BLK BM BOD BOT BP BR BRDG BRG BTWN	BOTTOM OF DECK ELEVATION BUILDING BLOCK BLOCKING BEAM BOTTOM OF DECK BOTTOM BEARING PLATE BOTTOM REINFORCING BRIDGING BEARING BEARING BETWEEN
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D d db DBA DBF	NAIL DIAMETER BAR DIAMETER DEFORMED BAR ANCHOR DECK BEARING ELEVATION

db	BAR DIAMETER
DBA	DEFORMED BAR ANCHOR
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL
DF	DOUGLAS FIR-LARCH
DIA	DIAMETER
DL	DEAD LOAD

EA EE EF EL ELEC EJ EJBE EMBED ENG EQ EQUIP ES ETBE ETDE ETPE ETPE ETPE ETPE ETPE ETSE ETWE EW E-W EXIST EXP EXT	EACH EACH END EACH FACE ELEVATION ELECTRICAL ELEVATOR EXPANSION JOINT EXISTING JOIST BEARING ELEVATION EMBEDMENT ENGINEER EQUAL EQUIPMENT EACH SIDE EXISTING TOP OF BEAM ELEVATION EXISTING TOP OF DECK ELEVATION EXISTING TOP OF PILE CAP ELEVATION EXISTING TOP OF SLAB ELEVATION EXISTING TOP OF VALL ELEVATION EXISTING TOP OF WALL ELEVATION EXISTING EXPANSION EXTERIOR	
F FDN FFE FLR FP FRMG FS FT FTG	FOUNDATION FINISHED FLOOR ELEVATION FLOOR FULL PENETRATION FRAMING FOOTING STEP FEET FOOTING	
G GA GALV GB GC GEN GL GLB GR GSN GYP BD	GAGE/GAUGE GALVANIZED GRADE BEAM GENERAL CONTRACTOR GENERAL GLUE LAMINATED TIMBER GLUE LAMINATED BEAM GRADE GENERAL STRUCTURAL NOTES GYPSUM BOARD	
H HDR HK HORIZ HP HSA HS HSS HT	HEADER HOOK HORIZONTAL HIGH POINT HEADED STUD ANCHOR HEADED STUD HOLLOW STRUCTURAL SHAPE HEIGHT	
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	LONG LEG VERTICAL LONGITUDINAL LOW POINT LAMINATED STRAND LUMBER LINTEL	SC SCHED SER SIM SK	SLIP CRITICAL SCHEDULE STRUCTURAL ENGINEER OF SIMILAR SKETCH
LG LW LVL	LIGHT GUAGE LIGHT WEIGHT LAMINATED VENEER LUMBER	SOG SPA SPEC SF SPF	SLAB ON GRADE SPACES SPECIFICATION SQUARE FOOT SPRUCE PINE FIR
M MAS MAX MECH	MASONRY MAXIMUM MECHANICAL	SSK STD STIFF STEEL	STRUCTURAL SKETCH STANDARD STIFFENER
MEP MEZZ MFR	MECHANICAL, ELECTRICAL AND PLUMBING MEZZANINE MANUFACTURER	STRUCT SYM SYP	STRUCTURE / STRUCTURAL SYMMETRICAL SOUTHERN YELLOW PINE
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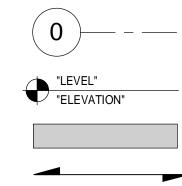
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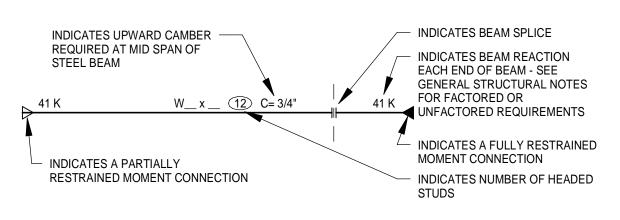
GENERAL:		
BF1	INDICATES BRACE FRAME MARK NUMBER	$\langle 1 \rangle$
FD	INDICATES APPROXIMATE LOCATION OF FLOOR DRAIN	
L1	INDICATES LINTEL MARK NUMBER	
RD	INDICATES APPROXIMATE LOCATION OF ROOF DRAIN	<u> </u>



# FOUNDATION PLANS:

F1	INDICATES SPREAD FOOTING MARK NUMBER	FS	INDICATES FOOTING STEP LOCATION
P1	INDICATES PIER MARK NUMBER	⊕ <sup>SB1</sup>	
WF1	INDICATES WALL FOOTING MARK NUMBER	$\Psi$	INDICATES APPROXIMATE LOCATION OF SOIL BORING
	INDICATES APPROXIMATE LOCATION OF UNDERGROUND UTILITY		
 	INDICATES APPROXIMATE LOCATION OF DRAIN TILE		

# STEEL FRAMING SYSTEM:



STEEL BEAM

,	SHEET NAME	
<u> </u>	TITLE SHEET	
	GENERAL STRUCTURAL NOTES	
	GENERAL STRUCTURAL NOTES	IMPROVING YOUR WORLD
	OVERALL FIRST LEVEL FLOOR PLAN OVERALL SECOND LEVEL FLOOR PLAN	
	OVERALL THIRD LEVEL FLOOR PLAN	Develde Oreith and Hills Inc.
	OVERALL ROOF LEVEL PLAN	Reynolds, Smith and Hills, Inc.
	CANOPY FOUNDATION PLAN - AREA A CANOPY FOUNDATION PLAN - AREA B	4525 Airport Approach Rd, Ste A
	CANOPY ROOF FRAMING PLAN - AREA A	Duluth, Minnesota 55811 218-722-1227 FAX 218-722-1052
	CANOPY ROOF FRAMING PLAN - AREA B	www.rsandh.com
	FOUNDATION PLAN - AREA A	
	FOUNDATION PLAN - AREA B SECOND LEVEL FRAMING PLAN - AREA A	
	SECOND LEVEL FRAMING PLAN - AREA B	
	THIRD LEVEL FRAMING PLAN - AREA A	
	THIRD LEVEL FRAMING PLAN - AREA B	
	ROOF LEVEL FRAMING PLAN - AREA A ROOF LEVEL FRAMING PLAN - AREA B	
	TUG ROAD FOUNDATION PLAN	<b>DULUTH AIRPORT</b>
	TUG ROAD ROOF FRAMING PLAN	AUTHORITY
	BRACING ELEVATIONS AND DETAILS BRACING ELEVATIONS AND DETAILS	
	COLUMN SCHEDULE AND DETAILS	
	STRUCTURAL DETAILS	DULUTH
	STRUCTURAL DETAILS	INTERNATIONAL
	STRUCTURAL DETAILS STRUCTURAL DETAILS	AIRPORT
	STRUCTURAL DETAILS	DULUTH, MN
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	STRUCTURAL DETAILS	NEW TERMINAL
	STRUCTURAL DETAILS	DESIGN
	STRUCTURAL DETAILS	DEGIGIN
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		<u>CONSULTANTS</u>
-		Interior Architects:
8		SJA ARCHITECTS
		11 E Superior Street Suite 340 Duluth MN 55802 TEL: (218) 724-8578 / FAX: (218) 724-8717
		Structural Engineers: MBJ CONSULTING ENG.
		501 Lake Avenue South, Suite 300, Duluth MN 55802
		TEL: (218) 722-1056 / FAX: (218) 722-9306
		M/E/P/FP Engineers:
-		COSENTINI
		1 East Wacker Drive, Suite 103, Chicago IL 60601 TEL: (312) 670-1800 / FAX: (312) 670-1801
		Baggage Handling Systems Consultants: BNP ASSOCIATES INC.
		101 East Ridge Office Park, Suite 103, Danbury CT 06810
		TEL: (203) 792-3000 / FAX: (203) 792-4900
		Landscape Consultants:
		APPOLD DESIGN
		2432 East First Street, Duluth MN 55812 TEL: (218) 591-5079
		I hereby certify that this plan, specification,
		or report was prepared by me or under my direct supervision and that I am a duly
		licensed Professional Engineer under the
		laws of the State of Minnesota.
		Print Name: Paul A. Johnson
		$\bigcirc 1 $
		Signature: Tall a Johnson
		Date: June 2, 2040 Deg. No. , 20270
		Date: June 3, 2010 Reg. No.: 20379
		REVISIONS
		NO. DESCRIPTION DATE
		Conformance Set 07-12-10
		Building Permit 08-16-10
		DATE ISSUED: 08-16-10
		REVIEWED BY: PAJ / CWB
		DRAWN BY: SJL
		DESIGNED BY: CWB
		AEP PROJECT NUMBER
		213-1882-091
		C 2009 REYNOLDS, SMITH AND HILLS INC.
		SHEET TITLE
		TITLE SHEET
		SHEET NUMBER
		S001
		BUILDING
		PERMIT

INDICATES KEY NOTE MARK NUMBER

ELEVATION MARKER

INDICATES NEW BUILDING GRID LINE

INDICATES MATCH LINE	

INDICATES MATCH LINE	

	LOOMINION
INDICATES MATCH LINI	E

INDICATES SLAB STEP LOCATION	
INDICATES SEAD STEP LOCATION	

SHADED AREA INDICATES EXISTING CONSTRUCTION

INDICATES SPAN DIRECTION OF ELEMENT

OVERALL ROOF LEVEL PLAN
CANOPY FOUNDATION PLAN - AREA A
CANOPY FOUNDATION PLAN - AREA B
CANOPY ROOF FRAMING PLAN - AREA A
CANOPY ROOF FRAMING PLAN - AREA B
FOUNDATION PLAN - AREA A
FOUNDATION PLAN - AREA B
SECOND LEVEL FRAMING PLAN - AREA A
SECOND LEVEL FRAMING PLAN - AREA B
THIRD LEVEL FRAMING PLAN - AREA A
THIRD LEVEL FRAMING PLAN - AREA B
ROOF LEVEL FRAMING PLAN - AREA A
ROOF LEVEL FRAMING PLAN - AREA B
TUG ROAD FOUNDATION PLAN
TUG ROAD ROOF FRAMING PLAN
BRACING ELEVATIONS AND DETAILS
BRACING ELEVATIONS AND DETAILS
COLUMN SCHEDULE AND DETAILS
STRUCTURAL DETAILS
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SHEET NUMBER

S001

 S002

 S003

 S101

 S102

 S103

 S104

S106 S107

These notes specify the requirements for the design represented in these documents. The construction and materials shall comply with all the pertinent codes and references, plans, and details, including (but not limited to) those shown in architectural, civil, mechanical and electrical drawings.

The contractor shall verify all dimensions and existing conditions in the field that affect construction prior to commencing work on the affected element or shop drawing submittals. Resolve any discrepancies with the architect prior to construction.

The contract structural drawings and specifications represent the completed structure. The contractor is responsible for bracing and shoring (without overstressing) all structural elements as necessary at any stage of construction until completion of the project. The Structural Engineer is not responsible for the contractor's means, methods, sequences or procedures of construction. Contractor shall recognize and consider effects of thermal movements of structural elements during construction period.

The contractor is solely responsible for site safety including all temporary precautionary measures and safety programs. Site observation visits by the Structural Engineer do not include review of the contractor's safety precautions.

Refer to architectural, mechanical and electrical drawings for locations, elevations, dimensions, and details of sleeves, inserts, openings, recesses, curbs, housekeeping pads, etc. that are not shown on the structural drawings and do not damage structural members.

Information shown in the structural drawings regarding existing conditions represents the current and general field conditions related to the new work, to the best of our knowledge. Report all discrepancies to the Architect for resolution prior to performing related new work.

Requests for information shall be submitted in writing and shall reference the part of the construction documents that is in question.

## SPECIAL INSPECTIONS:

Contractor shall read and understand their duties in the specification and under the building code for special inspections and coordinate as necessary the owner's responsibilities.

The special inspectors shall be provided and shall only use approved shop drawings.

Special inspection reports are to be submitted immediately to the SER, Architect, and Contractor daily when inspections are performed.

The general contractor shall provide timely notice to the special inspector and sufficient time for the inspector to perform their inspection

### SHOP DRAWINGS

All engineering design provided by others and submitted for review shall bear the certification stamp and signature of a qualified professional engineer who is licensed in the state of Minnesota.

Submit shop drawing schedule with construction schedule that includes consideration for review period. See specification for additional information.

### DEFERRED SUBMITTALS:

The following items shall be issued as deferred submittals per IBC: Steel Connections

Light gage metal framing

All items issued as deferred submittals shall be issued a minimum of 30 days prior to installation and shall not be installed until their design and submittal documents have been reviewed for general conformance to the drawings by the general contractor, the engineer of record and the building official. A copy of the deferred submittal shall be forwarded to the city after the engineer of record has reviewed the documents and prior to erection of the deferred submittal items.

### DESIGN CODES AND STANDARDS: Minnesota State Building Code, MSBC 2007

2006 International Building Code, as amended and adopted by the MSBC 2007

ACI 318-05 Building Code Requirements for Reinforced Concrete

ACI 530-05 Building Code Requirements for Masonry Structures, Allowable Stress Design

ACI 530.1-05 Masonry Structures

AISC 360-05 Specification for Structural Steel Buildings

AISI NAS-01 North American Specification for the design of Cold-Formed Steel Structural Members including 2004 supplement.

ASCE 7-05 Minimum design loads for buildings and other structures including supplement NO. 1 and excluding Chapter 14 and Appendix 11A.

ASCE 3-01 Structural Design of Composite Slabs

### MATERIAL PROPERTIES: Reinforcing Steel (Fy):

Typical Weldable	60,000 psi 60,000 psi	ATSM A615 Grade 60 ASTM A706 Grade 60
Cast-in-Place Concrete (f'c) at 28 days, UNO:		
Controlled Low Strength Material (CLSM) Footings Piers and Walls Columns Concrete placed over Metal Floor Deck Slabs on Grade Exterior Concrete Masonry Corefill Concrete All Concrete not otherwise noted	1,200 psi (at 5 d 500 psi (at 5 day 4,000 psi 4,000 psi 4,000 psi 4,000 psi 4,000 psi 4,000 psi 3,000 psi 4,000 psi	
Concrete Masonry- Prism (f'm): Typical Units:	2,000 psi	
Structural Steel (Fy): Wide Flanges Angles, Channels Grade B Rectangular HSS Grade B Round HSS Grade B Steel Pipe Plates, Bars	50,000 psi 36,000 psi 46,000 psi 42,000 psi 35,000 psi 50,000 psi	ASTM A992 ASTM A36 ASTM A500 ASTM A500 ASTM A53 ASTM A572 or A36 as indica
Structural Fasteners: Typical High-Strength Bolts High-Strength Bolts as noted on plan Grade 36 Anchor Rods, UNO Threaded Rods Direct -Tension Indicator Washers as noted	92,000 psi 150,000 psi 36,000 psi 36,000 psi d on plan	ASTM A325 ASTM A490 ASTM F1554 ASTM A36 ASTM F959
Cold-formed Light Gauge Metal Framing (Fy): Studs, Joists, Braces-16 ga. and heavier Studs, Joists, Braces-18 ga. and lighter Track, Channels and Accessories	50,000 psi 33,000 psi 33,000 psi	ASTM A653 ASTM A653 ASTM A653

DESIGN LOADS: <u>.ATERAL LOADS</u> Primary Frame Wind Data: Basic Wind Speed: 90 mph Wind Importance Factor: 1.15 Exposure:

Primary Seismic Data: No design required

Component Loads: Exterior Component/Cladding: Supplier to develop based on MSBC 2007 and to indicate on shop drawings. **GRAVITY LOADS:** Roof Snow Load: Ground Snow Load, Pg: 60 psf 46 psf Flat-Roof Snow Load, Pf: Snow Exposure Factor, Ce: 0.70 Snow Load Importance Factor, I: 11 Unbalanced/Drift Snow Load: As required by ASCE 7 Floor Loads: 100 psf (not reducible) Live Load Hanging loads at underside of 2nd floor: 40 psf superimposed Stairs, Corridors and Lobbies: 100 psf (not reducible) Stair Tread Concentrated Load: 300 lbs Mechanical Rooms: 150 psf (not reducible)

Exterior Site Surcharge Loads: 250 psf Fire Trucks: Sidewalk: 250 psf North terminal retaining wall and north HS20-44 axle load as defined by IBC 2006 table 1607.6 at a tug tunnel retaining wall: distance of 5 feet from the north wall edge.

Provisions For Future Expansion: Design for additional 30' bay (3 story) between grids "E" and "G", east of grid 12 and west of grid 1. Design for one story expansion of 3rd floor office space north of grid "G".

reauired.

FOUNDATIONS Refer to Geotechnical report number AET #07-04216.2 by American Engineering Testing, Inc., dated October 14, 2009 and the subsequent addendum (AET project #07-04216.3) dated January 29, 2010. The contractor shall verify the location of all existing and new underground utilities and tanks prior to beginning excavation and contact Gopher State One Call.

The minimum dimension from exterior grade to bottom of footing and foundation shall be 72" in unheated areas.

For underground utilities adjacent to foundations and through foundations reference drawings for detail showing step footings below utilities as required to avoid undermining of structure by utilities.

See geotechnical report for water table elevations. Contractor to make adequate provisions for dewatering as

### CONVENTIONAL FOOTINGS:

Footings are designed for a maximum allowable soil bearing pressure of 8000 pounds per square foot on undisturbed native soil or lean mix concrete/controlled low strength material fill. Soil bearing pressure is to be verified in the field during construction by a qualified Geotechnical Engineer.

All topsoil, fill, organic swamp deposits, and/or other unsuitable bearing material shall be removed below the footings and/or within the building area to the depths indicated in the geotechnical engineering report and extent of removal shall be field verified by the Geotechnical Engineer.

All excavations shall be observed by a qualified geotechnical engineer to verify removal of unsuitable material and

confirm the proper preparation of bearing conditions. For footings that do not bear on natural undisturbed soil, extend engineered fill laterally beyond bottom edge of footing

for a distance equal to the depth of engineered fill. Reference drawings for details. Foundation and retaining walls shall be back filled with free draining fill approved by the Geotechnical Engineer.

Provide drain tile required by the contract documents and verify with architect and civil engineer.

as necessary until permanent bracing elements are complete and cured to design strength.

All temporary bracing, cribbing, shoring or underpinning not fully designed or detailed on these drawings shall be designed by a licensed specialty engineer engaged directly by the contractor.

For stepping of wall footings reference drawings for detail.

## REINFORCED CONCRETE:

minimum 1/4" amplitude.

The detailing, fabrication and erection of all reinforcing shall be done in accordance with the latest edition of ACI-315, "Manual of Standard Practice for Detailing Reinforced Concrete Structures and ACI-318, "Building Code Requirements for Structural Concrete."

All reinforcing bars are deformed and continuous, unless noted otherwise. Refer to drawings for reinforcing lap length schedule.

Provide suitable wire spacers, chairs, etc. for support of reinforcing steel in proper position while placing concrete. All bars shall be tied to prevent displacement while placing concrete. All chairs and slab bolsters shall be plastic or steel with plastic tips. When reinforcing steel is epoxy coated or p/t tendons are fully encapsulated, all chairs and slab bolsters shall be epoxy coated or plastic and all support bars shall be epoxy coated. Chairs are to be stable and resist tipping. Acceptable products are GTI or approved equal.

The fabricator shall submit a complete list of accessories and placing details with the shop drawings.

No horizontal construction joints shall be placed in beams, joists, or slabs, unless shown on drawings. Locate vertical construction joints in beams and slabs at central one third of span. Refer to drawings for details. Submit proposed construction joint locations to the Structural Engineer of Record for review prior to placement of concrete. Where new concrete is placed against existing concrete, the existing concrete shall be roughened to a

Refer to drawings and ACI 318 Chapter 6 for placement guidelines of embedded pipes, sleeves, and conduits. Conduits are not permitted in slabs 3 inches or less in thickness. The maximum size of conduits within any slab shall be 1 1/4" outside diameter and shall be spaced no closer (to each other or any reinforcing steel) than 4" unless prior approval is obtained from the structural engineer. Additional reinforcing steel and chairs may be required to support embedded conduit. All conduit shall be placed in the middle 1/3 of the slab thickness above the metal deck, typical. Conduit may not be tied to parallel reinforcing steel. Conduit may not be paced in deck flutes. Conduit may not cross within slabs 5" or less in thickness. Conduit placement drawings may be required in areas of high conduit concentricity.

Provide a 3/4 inch chamfer for all exposed concrete corners. See Architectural drawings for details and additional requirements.

The general contractor shall notify the Special Inspector a sufficient period in advance of placing concrete to allow required inspections and testing to occur in a timely fashion.

Formwork and all shoring for flatwork shall be left in place until the concrete reaches at least 75 percent of the 28day compressive strength. Design of shoring and reshoring is the responsibility of the contractor and shall conform to ACI 347R-88.

Aluminum conduit, aluminum sleeves and aluminum embeds are not permitted in concrete. Exterior concrete to have 6% +/- 1% entrained air.

Calcium chloride is not permitted as a concrete additive.

Concrete Cover on Reinforcing:

Topping Slab: 3/4" clear top. See drawings for cover at composite slabs Slab on Grade: 3" bottom

Footings: 3" clear bottom and sides

2" clear top Walls: #5 and smaller 1 1/2" clear earth or weather face #6 and greater 2" clear earth or weather face

3/4" interior face Columns and Beams: 1 1/2" clear to ties or stirrups

### CONCRETE SLABS ON GRADE: Slabs on grade shall be place in lane fashion.

The control or construction joints shall be placed as shown on the drawings. The joints shall align with the column

grids and be spaced as noted below: Exterior slabs 24 times slab thickness, maximum; Interior slabs 36 times slab thickness maximum

Interior slabs 48 times slab thickness, maximum, with carpeting The panels formed by control or construction joints shall not be "L" shaped and a rectangular panel's aspect ratio

shall not exceed 1.5.

Refer to the drawings for the typical slab on grade construction and saw cut control joint detail. Control and

construction joints must be continuous and not offset.

Refer to drawings for detail of isolation diamonds or circles at columns.

Refer to drawings for reinforcing at re-entrant corners. Bend bars as necessary at obstructions.

Refer to the specification for the existence, type, and thickness of interior ground vapor retarder. Locate a vapor retarder directly beneath the slab on grade on top of a 6 inch compactable granular base. Refer to the specification for requirements for the compactable granular base.

Mechanically vibrate concrete around trench drains, floor ducts, construction joint dowels, loading docks, architectural features and other embedded items.

Refer to the specification for slab on grade pre-placement meeting.

Refer to the specification for acceptable methods of curing the concrete.

Refer to flooring manufacturer's specification for levelness, flatness and curing of concrete slabs on grade to receive special architectural floor finishes.

Special shapes shall be provided for jambs, columns, pilasters, control joints, corners, and lintels.

# **REINFORCED MASONRY:**

All masonry units are placed in running bond fashion. Corners shall have a standard bond by overlapping units.

All masonry walls shall have horizontal joint reinforcing spaced at 16" o.c. Horizontal joint reinforcing shall be truss style and fabricated with galvanized nine-gauge wire and shall include corner and intersecting wall pieces. Provide minimum 6" laps at all splices.

Vertical reinforcing shall be held in place by rebar positioners, crossties, chairs, or tying to every other layer of horizontal reinforcing steel. Refer to the detail in the drawings for vertical reinforcing bar location in a core.

Provide concrete cover of minimum 1/2" to face shell.

Refer to detail in the drawings for reinforcing bar lap lengths.

Extend vertical reinforcing from footings to 2" clear top of wall or to beam bearing. Extend vertical reinforcing into the next level of construction and lap in accordance with the lap schedule.

When typical vertical wall reinforcing is interrupted by long wall openings, provide typical vertical wall reinforcing above and below opening, and extend into horizontal bond beams. Refer to the schedule on the drawings, for masonry wall opening lintels. Refer to the detail in the drawings for masonry openings minimum jamb reinforcing.

Provide vertical reinforcing at the ends of walls and at wall intersections to match specified reinforcing. Run reinforcing full height of walls.

All masonry units shall be placed with full face shell mortar coverage on horizontal and vertical face shells. Webs shall also have full mortar coverage around all grouted cells.

Fill block core at vertical reinforcing (8" minimum length along wall) with concrete grout. Filling cores with mortar is not allowed. Vibrate in place. Rodding and puddling are not allowed.

Maximum lift height is four feet. For concrete core fill pour height up to maximum 8'-0", provide cleanouts if pour height exceeds 5'-0".

Masonry cement mortar is not allowed.

Calcium chloride or admixtures containing chloride shall not be used in mortar or grout.

For reinforced masonry bond beams, provide bent corner bars at corners and intersections that match reinforcing. Step bond beams as necessary to match roof slopes. Lap reinforcing bars per schedule.

For construction of masonry control joints refer to detail in drawings.

Unless noted otherwise on the drawings place control joints in masonry walls such that no straight run of wall exceeds 24'-0" and within 4'-0" of corners. Do not place control joints within 48 inches of a masonry opening jamb or a steel bearing plate

Place bond beam reinforcing continuously through control joints. Do not splice bond beam reinforcing within 6'-0" of a control ioint.

Provide bond beam with reinforcing at all floor lines, roof lines, and top of walls. Refer to details in the drawings. Grout below steel bearing plate and refer to the drawings for additional information.

Refer to drawings for reinforcing schedule, top of wall bracing, thickened bearing slab and lintel schedule for nonbearing masonry walls. Refer to Architectural drawings for location and extent.

MASONRY BEAMS (HIGH-LOW BOND BEAMS): For all masonry beams use lintel blocks.

Masonry beams are to bear 8" minimum at jambs. Extend vertical reinforcing through masonry beam bearing. Extend horizontal reinforcing full length.

Grout masonry beams solid. Mechanically vibrate grout in place.

## EXPANSION AND ADHESIVE ANCHORS: shall be as noted below:

Expansion anchors shall be stud type with a single piece three section wedge and zinc plated in accordance with ASTM B633.

Threaded anchor rod for adhesive anchors in concrete shall be ASTM A193. Grade B7. or ASTM A36, as noted in the drawings. The adhesive used for anchors shall be a structural grade, two part epoxy or acrylic material that meets the requirement of ASTM C-881 Types I, II, IV, and V, Grade 3, Classes B and C as noted on plans.

Holes shall be drilled with a bit and cleaned using a method that complies with the manufacturer's guidelines, and specifications. Do not cut or damage reinforcing steel or P-T tendons.

Upon the request of the structural engineer the anchors shall be proof tested by the manufacturer to verify capacity of anchors that do not meet the conditions in the construction documents.

as noted below:

Concrete base material:

For 1/2", 5/8", and 3/4" diameter expansion anchors provide 4 3/4"embed, UNO on plan. For 1/2" and 5/8" diameter adhesive anchors provide 5" embed. For 3/4" diameter adhesive anchors provide 7" embed, UNO on plan.

Grouted solid concrete masonry unit material: For 1/2", 5/8", and 3/4" diameter expansion anchors provide 4 3/4"embed, UNO on plan.

For adhesive anchors refer to the product's ICBO Report. Pre-approved manufacturer are as follows: HILTI, ITWR Ramset/Redhead, Powers Fasteners, and Simpson Strong-Tie. For review of alternate products, submit manufacture's product data and product's current ICBO report prior to construction.

Anchors in concrete or concrete masonry when exposed to earth, weather, or corrosive environment shall be manufactured from AISI 304/316 Stainless Steel. STRUCTURAL STEEL

standards.

allowed.

structural engineer.

engineer.

unless noted otherwise.

STRUCTURAL STEEL CONNECTIONS All steel connections shall be designed by the steel fabricator for the criteria indicated on the drawings unless noted or detailed otherwise. Connection design shall conform to the requirements of the AISC Specifications for the design, fabrication, erection of structural and OSHA regulations. Submit calculations certified by a Professional Engineer who is licensed in the state of Minnesota. All loads indicated on the drawings are unfactored, working loads.

Non-composite beams: Unless noted otherwise, design simple beam shear connections per the AISC Manual connection tables. The required end reaction shall be based on the reactions indicated on the plans. Design connections for the reactions indicated on plan or for the minimum connection requirements indicated in the Connection Schedule, whichever provides the greater capacity.

Composite beams: Design simple composite beam shear connections per the AISC Manual connection tables UNO. Design connections for the reactions indicated on the plans or the minimum connection requirements indicated in the Connection Schedule, whichever provides the greater capacity.

Unless detailed otherwise, beam shop connections may be welded or bolted and field connections are to be bolted. Bolts shall be a minimum 3/4" diameter for connections specified or detailed in the drawings. The fabricator may submit an alternate connection with the calculations that is certified by a professional engineer who is licensed in the state of Minnesota

All beam web copes must be made to a 1 inch minimum radius.

Welded connections shall be made in accordance with ANSI/AWS D1.1 Structural Welding Code using E70XX electrodes unless noted otherwise. Weld sizes not shown or controlled by the required forces shall be AWS code minimum size. Welds shall be visually inspected for compliance with the AWS code visual inspection criteria. Welders shall be qualified in accordance with ANSI/AWS D1.1 and shall be experienced in weld in structural steel.

Full penetration welds shall be tested using NDT methods such as ultrasonic, magnetic particle or other methods referenced in the AWS code. Welds subject to NDT methods shall also have been found compliant with the AWS visual inspection criteria. STRUCTURAL STEEL STAIRS:

Structural steel stair stringers, components, railings, posts, hangers, and connections to be designed by the fabricator's Qualified Professional Engineer for the loads indicated in the specifications. Configuration of stringers and railings shall be as indicated on the architectural drawings. Channel stringers to have a minimum 12" depth and a minimum 1 1/2" flange width.

STEEL ROOF DECK:

codes and OSHA requirements.

Steel roof deck shall be as noted on plan.

Welding shall be in accordance with AWS D1.3. Welders shall be qualified in accordance with AWS D1.3.

Where spray-on fireproofing of the deck is required, the contractor shall verify that the deck finish is compatible with the proposed fireproofing material to ensure proper bonding of the fireproofing. Coordinate fireproofing locations and requirements with the architect.

All steel deck shall span a minimum of three spans, unless otherwise approved by the engineer. Deck ends are to be lapped over supports.

Contractor shall verify the location and extent of acoustical steel deck with the architectural drawings.

Reference drawings for detail on steel roof deck fastening requirements unless noted otherwise. Powder actuated or pneumatically driven fasteners are not allowed.

Provide reinforcement or frames for deck openings as indicated on the drawings. LIMITATIONS ON M/E SUPPORT FROM PRIMARY STRUCTURE: All M/E systems shall be supported from the primary structural frame, unless noted otherwise. Do not connect to roof deck, floor slabs, or secondary members unless specifically allowed on the structural construction

All M/E support systems, hangers, brackets and connections to the primary structural frame shall be designed,

documents.

provided and installed by the M/E contractor, unless noted otherwise on the structural construction documents. All M/E supports and connections for loads in excess of 300 lbs shall be designed by a structural engineer licensed in the state of Minnesota and engaged by the M/E contractor.

COMPOSITE STEEL FLOOR DECK: Manufacturer shall be a current member of the Steel Deck Institute (SDI). Composite steel floor deck shall be as noted on plan.

Detail, manufacture and install composite steel floor deck and accessories in accordance with the SDI specifications, codes and OSHA steel erection standards.

Refer to drawings for composite steel floor deck fastening requirements unless noted otherwise. Powder actuated or pneumatically driven fasteners are not allowed.

Provide and install pour stops, column closures, end closures, cover plates and girder fillers and other accessories as required by the SDI unless otherwise indicated or detailed.

Where spray-on fireproofing of the deck is required, the contractor shall verify that the deck finish is compatible with the proposed fireproofing material to ensure proper bonding of the fireproofing. Coordinate fireproofing locations and requirements with the architect.

Provide reinforcement or frames for deck openings as indicated on the drawings.

Do not cut control joints in structural slabs on metal deck.

Backfill equally on both sides of foundation walls to prevent overturning or lateral wall movement, or temporarily brace

Anchors in concrete or concrete masonry when not exposed to earth, weather, or corrosive environment

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4525 Airport Approach Rd, Ste A

Duluth, Minnesota 55811

218-722-1227 FAX 218-722-1052

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**DULUTH AIRPORT** 

AUTHORITY

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INTERNATIONAL

AIRPORT

DULUTH, MN

**NEW TERMINAL** 

DESIGN

**CONSULTANTS** 

Interior Architects:

SJA ARCHITECTS

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Structural Engineers:

MBJ CONSULTING ENG.

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TEL: (203) 792-3000 / FAX: (203) 792-4900

Landscape Consultants:

**APPOLD DESIGN** 

2432 East First Street, Duluth MN 55812

TEL: (218) 591-5079

I hereby certify that this plan, specification,

or report was prepared by me or under my

licensed Professional Engineer under the

Date: June 3, 2010 Reg. No.: 20379

Paul A. Johnson

DATE

06-10-10

07-12-10

08-16-10

direct supervision and that I am a duly

laws of the State of Minnesota.

Print Name:

Signature:

REVISIONS

NO. DESCRIPTION

Conformance Set

**DATE ISSUED:** 08-16-10

DESIGNED BY: CWB

DRAWN BY:

**REVIEWED BY:** PAJ / CWB

SJL

AEP PROJECT NUMBER

213-1882-091

SHEET TITLE

**GENERAL** 

**STRUCTURAL** 

NOTES

SHEET NUMBER

**S002** 

BUILDING

PERMIT

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Building Permit

Addendum 1

**BNP ASSOCIATES INC.** 

11 E Superior Street Suite 340 Duluth MN 55802

Minimum embedment depths in concrete and concrete masonry for expansion and adhesive anchors shall be

Structural steel shall be detailed, fabricated and erected in compliance with AISC Specification for the design, fabrication, erection of structural steel for building, and Code of standard practice, and OSHA steel erection

All beams and girders shall be cambered at mid-span as indicated on the structural drawings. The cambers indicated shall be present in the beam in its erected position after completion of the end connections and shall be verified prior to placing concrete. Cambering tolerances shall be (-0", +1/4"). No center point cambering

Splicing structural members where not detailed on the drawings is prohibited without prior approval of the

Modification of structural steel members in the field is not allowed without written approval by the structural

All composite beams using the concrete slab as a compression flange are designed for unshored construction

Anchor rods shall be minimum 3/4" diameter or as detailed in drawings.

Manufacturer shall be a current member of the Steel Deck Institute (SDI).

Detail, manufacture and install steel roof deck and accessories in accordance with the SDI specifications and

Non-composite steel floor deck shall be as noted on plan.

SPECIAL INS 1. Steel 1.1 We

1.3 Hig 2. Concrete 2.1 Rei 2.2 Bo

2.9 Ver 3. Masonry

4. Wood 5. Soils 6. Pile Fo

7. Pier Fo 8. Wall Pa 9. Sprayed

10. Exterior Finish 11. Special ( 12. Smoke (

## NON-COMPOSITE STEEL FLOOR DECK:

Manufacturer shall be a current member of the Steel Deck Institute (SDI).

Detail, manufacture and install non-composite steel floor deck and accessories in accordance with the SDI specifications and codes and OSHA steel erection standards.

Refer to drawings for non-composite steel floor deck fastening requirements. Powder actuated or pneumatically driven fasteners are not allowed.

Where spray-on fireproofing of the deck is required, the contractor shall verify that the deck finish is compatible with the proposed fireproofing material to ensure proper bonding of the material. Coordinate locations and requirements with the architect.

Provide reinforcement or frames for deck openings as indicated on the drawings.

LIGHT GAUGE METAL FRAMING: The design and connection detailing of all light gage material including, but not limited to exterior studs, bearing studs, headers, jambs, joists, rafters and anchorage shall be by the Light Gauge Supplier. The design for systems other than bearing framing shall meet the following criteria:

Stud in exterior walls shall be minimum 600S162-43 (6"-18 gauge) studs at 16" OC. See architectural for additional spacing requirements at exterior finishes.

Studs shall be cold rolled steel, galvanized, C shape, with minimum 1 5/8" flange and minimum 1/2" return. They are to be punched for utility access and galvanized to G60 coating per ASTM 525.

At all openings in exterior and bearing walls provide a minimum two studs full wall height each side of opening and a minimum one additional stud each side for lintel bearing.

Anchor bottom track to concrete or masonry with minimum 5/32" x 1 1/4" power driven fasteners at 16" OC.

Top and bottom tracks shall be cold rolled or break formed steel, galvanized U shaped and minimum 18 gauge and as noted on the drawings.

Light gauge metal framing fasteners shall be minimum #10 self-drilling sheet metal screws, 16 threads per inch, with low profile head. Provide a minimum of two screws per connection unless noted otherwise.

Fasten light gage framing to wood with minimum #10 x 1 7/8" bugle head wood screws. Pre-drill holes in metal studs. Provide a minimum of two screws per connection unless noted otherwise.

All framing components shall be squarely cut for attachment to perpendicular members. Stud ends must seat tightly into tracks for all bearing applications.

At all wall elements, provide 1 1/2"-16 gauge horizontal channel bridging to prevent stud rotation. For all axial loaded walls, space bridging at 4'-0" OC. For all non-load bearing exterior walls, space bridging at 5'-0" OC.

Wall stud deflection criteria:

For wall studs providing lateral support to masonry veneer and cementitious stucco, provide L/600. For wall studs providing lateral support to other materials, provide L/360.

Joist and rafter deflection criteria:

Live Load Deflection is L/360.

Total Load Deflection is L/240.

An additional joist shall be provided under parallel non-load bearing partition walls.

The light gauge supplier shall submit certified shop drawings and design calculations prepared by a qualified Professional Engineer registered in the state of Minnesota. See project specification manual for additional submittal requirements.

All light gauge designations are in accordance with the Steel Stud Manufacturers Association (SSMA).

Refer to architectural drawings and specification for size, minimum gage, extent, and location of interior nonbearing light gage framing not shown on the structural drawings. Interior light gauge framing is to be designed for 5 psf lateral pressure by the light gauge supplier.

Temporary bracing shall be furnished by the light gauge supplier and framing installer and maintained until permanent systems providing lateral stability are in place.

Welding shall conform to the American Welding Society (AWS) "Structural Welding Code - Sheet Steel, D1.3 -Current Edition." Welders shall be qualified in accordance with AWS D1.3 and shall be experienced in light gage welding.

All light gage material to be welded must be nominal 16 gauge or thicker.

Touch up all light gage material at welds with zinc-rich paint.

Align load bearing wall studs with floor or roof joists.

Splices in studs, joists, and headers, are not permitted, unless approved in writing by the structural engineer.

Framing components may be pre-assembled into panels prior to erecting. Prefabricated panels shall be square, with components attached in a manner that prevents racking.

# SPECIAL INSPECTION SCHEDULE:

PECIAL INSPECTIONS REQUIRED OF STRUC	TURAL ELEME Continuous	NTS (PER IB Periodic	C 2006, CHAP Not Req'd	TER 17): See Arch.	Table 1704.3
1.1 Welding 1.2 Details 1.3 High-strength Bolts 2. Concrete		I			Table 1704.3
2.1 Reinforcing steel including Prestressing tendons					
<ul> <li>2.2 Bolts installed in concrete</li> <li>2.3 Required design mix</li> <li>2.4 Sampling</li> <li>2.5 Shotcrete</li> <li>2.6 Curing techniques</li> <li>2.7 Prestressed concrete forces and grouting</li> </ul>					
2.8 Erection of precast concrete members					
2.9 Verification of IN-SITU concrete strength					
3. Masonry 3.1 Level 1 Special Inspection *		•			1704.5.1, 1704.5.2, Table 1704.5.1
3.2 Level 2 Special Inspection					1704.5.3, Table 1704.5.3
4. Wood 5. Soils 6. Pile Foundations 7. Pier Foundations 8. Wall Panel and Veneers 9. Sprayed Fire-Resistant Materials 0. Exterior Insulation and					1704.6 1704.7 1704.8 1704.9 1704.10 1704.11 1704.12
Finish Systems (EIFS) 1. Special Cases 2. Smoke Control Systems				:	1704.13 1704.14

\* Please see referenced tables for exceptions.



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INTERNATIONAL AIRPORT DULUTH, MN

**NEW TERMINAL** DESIGN

**CONSULTANTS** 

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> Landscape Consultants: APPOLD DESIGN 2432 East First Street, Duluth MN 55812 TEL: (218) 591-5079

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Paul A. Johnson Johnon Signature: all

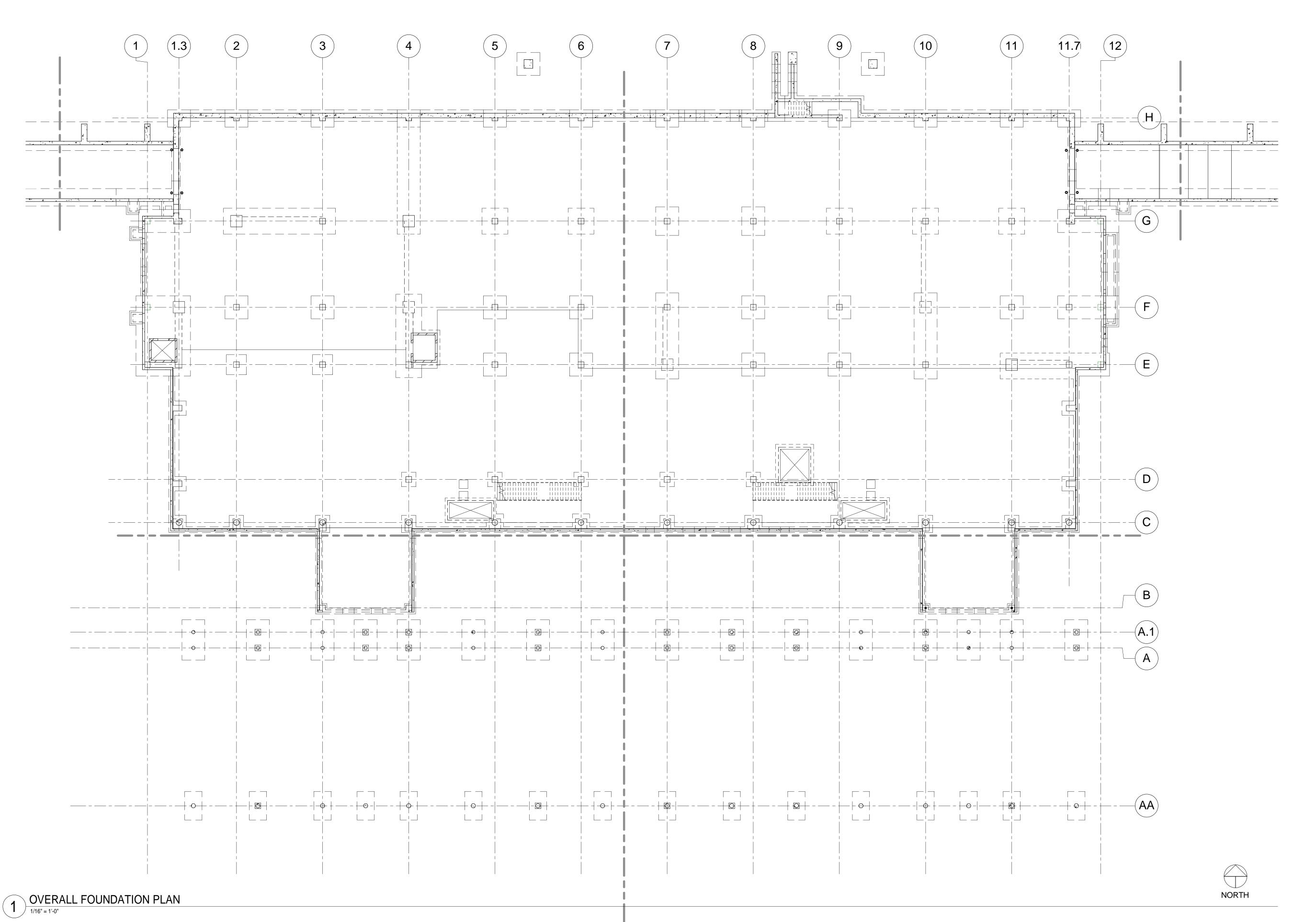
Date: June 3, 2010 Reg. No.: 20379

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REVIEWED BY	PAJ / CWB	
DRAWN BY:	SJL	
DESIGNED BY:	CWB	
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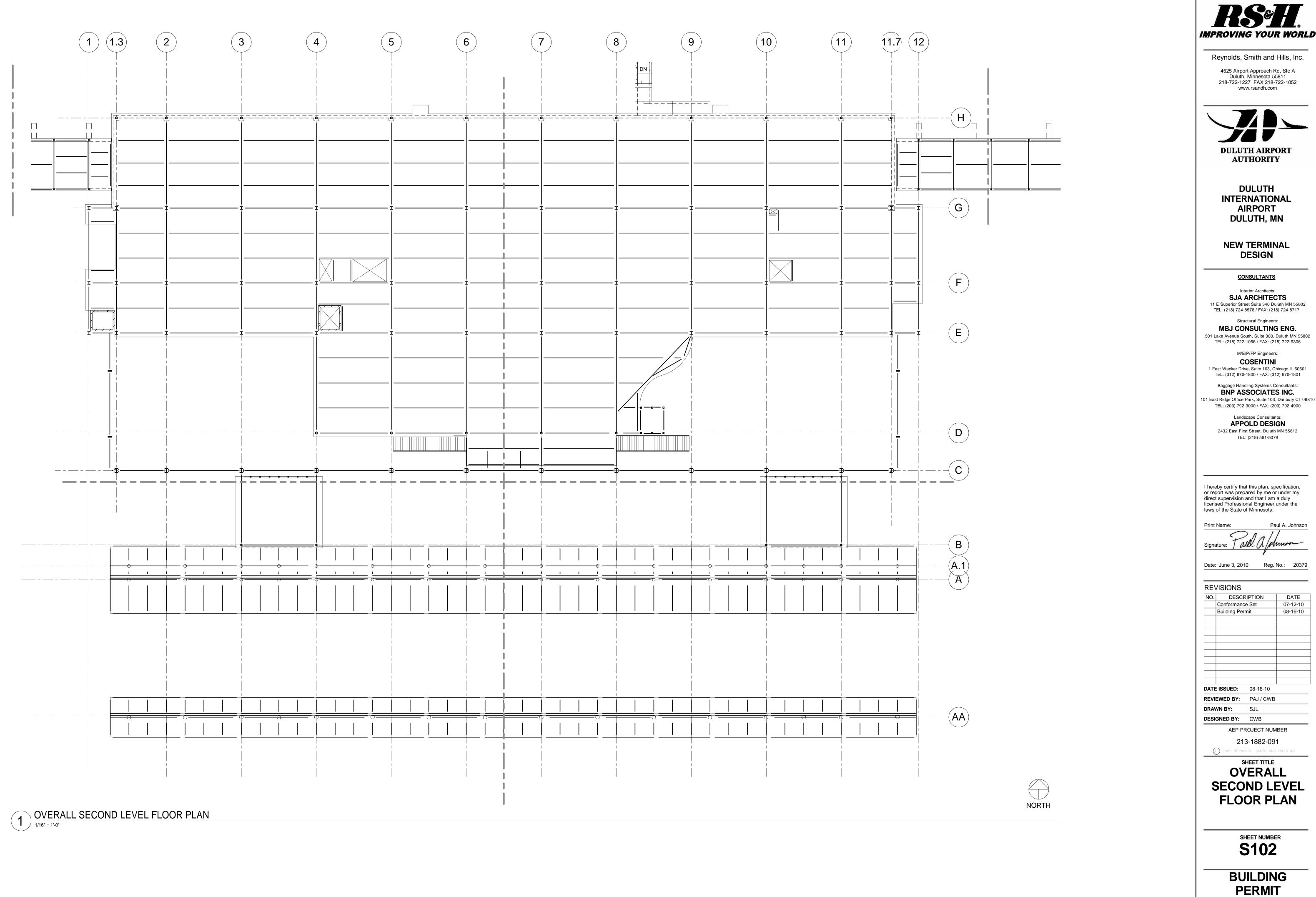
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> SHEET NUMBER **S003**

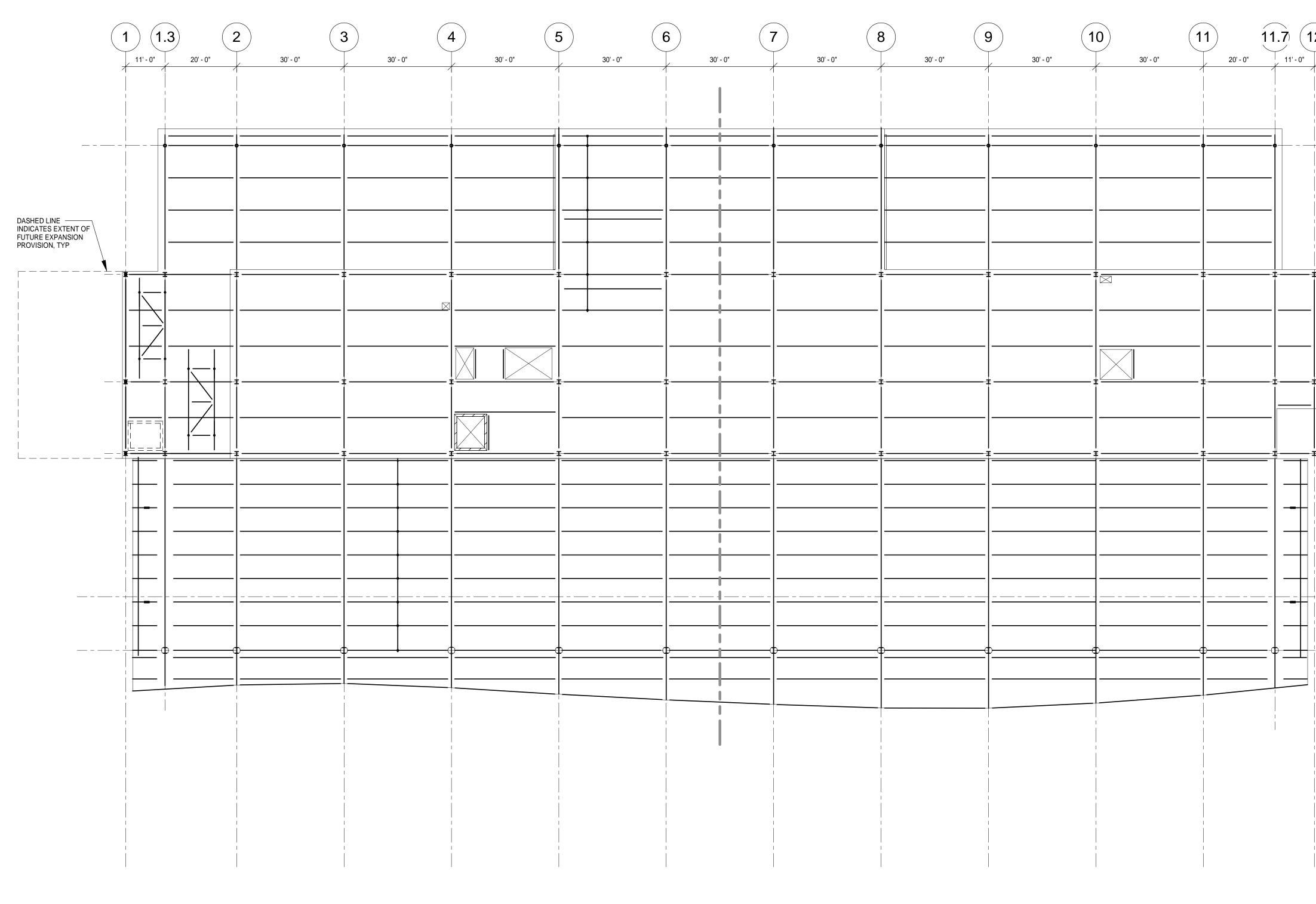
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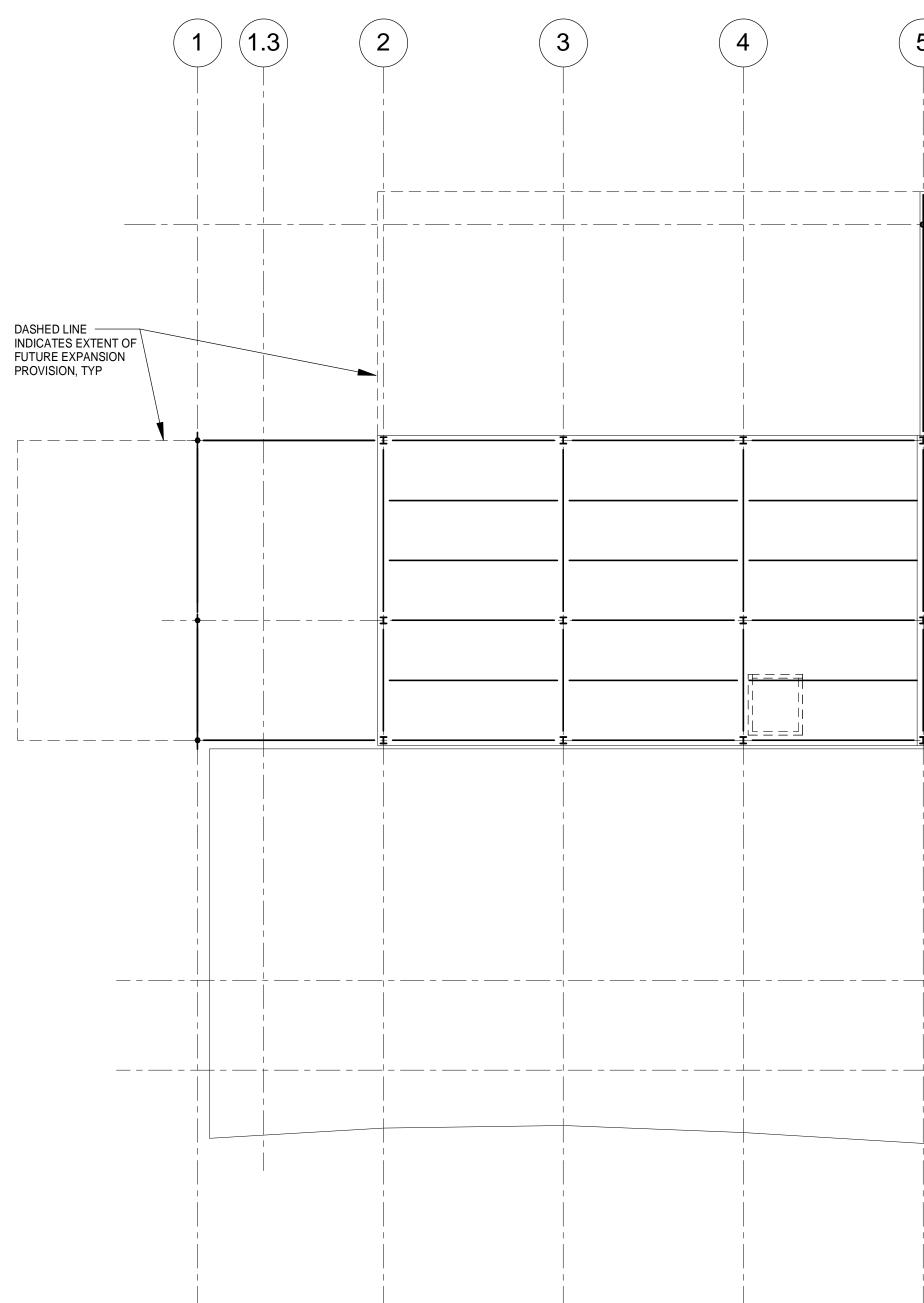
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Print Name: Paul A. Johnson Signature: Paul a Johnson
Signature: ) all () //////
Date: June 3, 2010 Reg. No.: 20379
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DATE ISSUED: 08-16-10
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DESIGNED BY: CWB
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OVERALL FIRST LEVEL FLOOR PLAN
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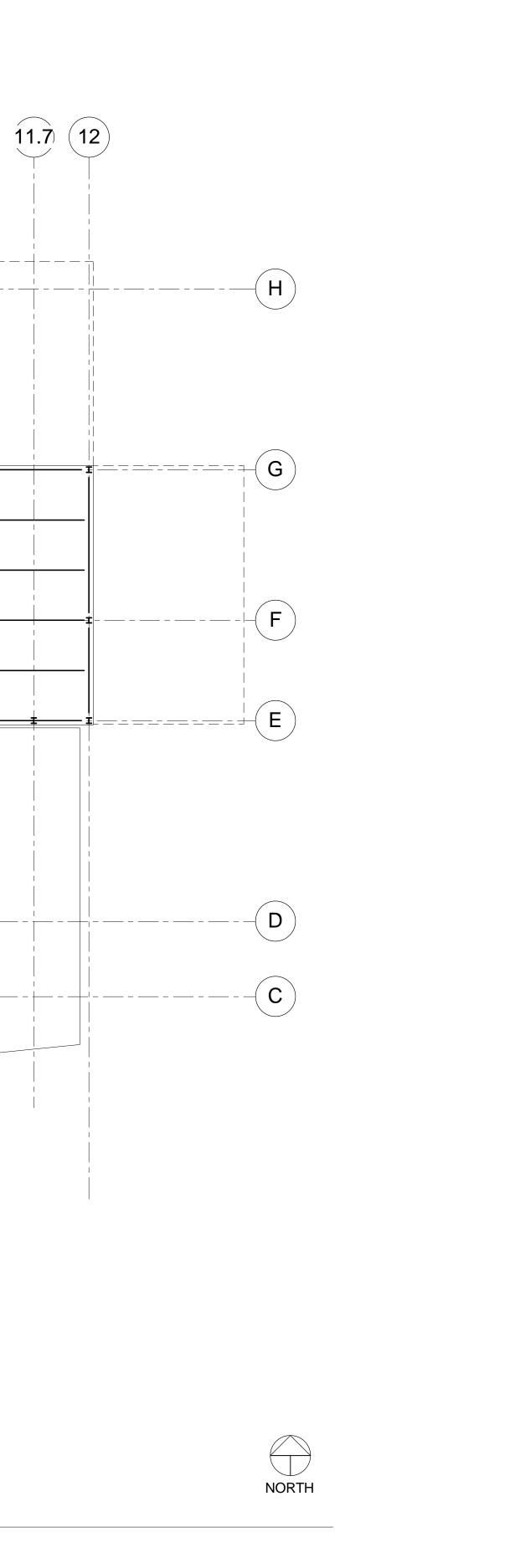
# OVERALL THIRD LEVEL FLOOR PLAN 1/16" = 1'-0"



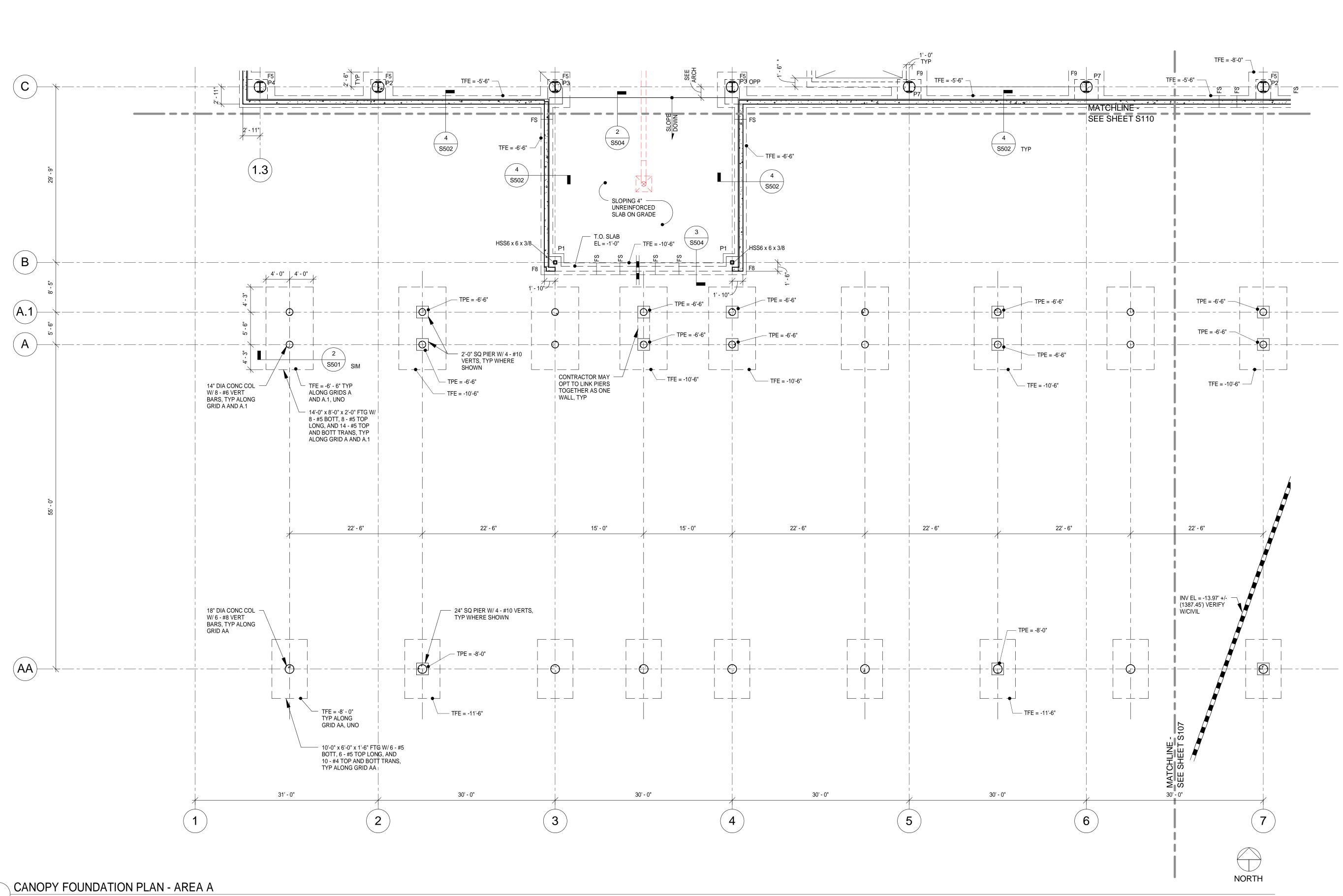
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			TEL: (203) 792-3000 / FAX: (203) 792-4900 Landscape Consultants: <b>APPOLD DESIGN</b> 2432 East First Street, Duluth MN 55812 TEL: (218) 591-5079
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_			licensed Professional Engineer under the laws of the State of Minnesota. Print Name: Paul A. Johnsor
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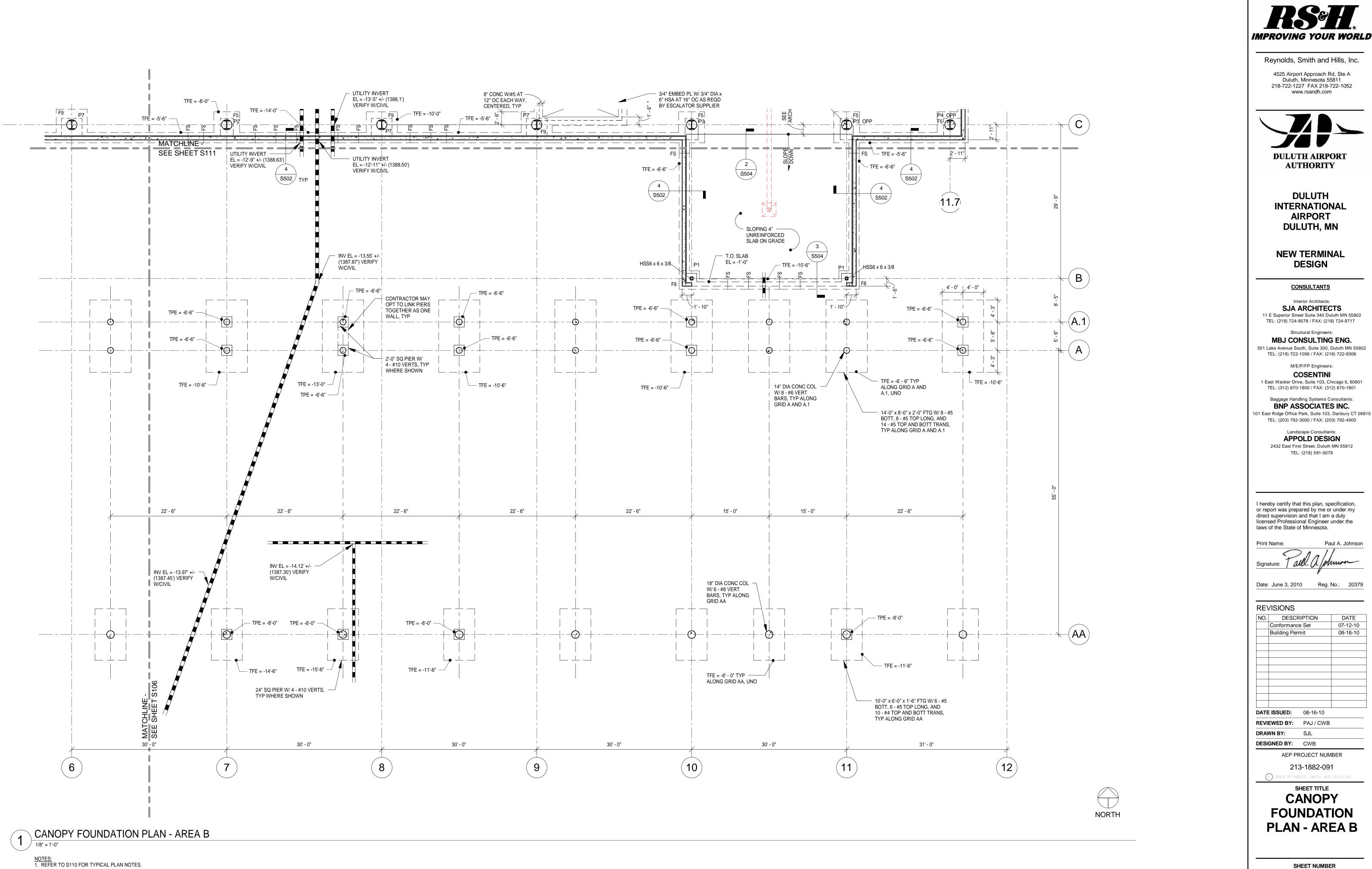


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1 CANOPY FOUNDATION PLAN - AREA A 1/8" = 1'-0" <u>NOTES:</u> 1. REFER TO S110 FOR TYPICAL PLAN NOTES.

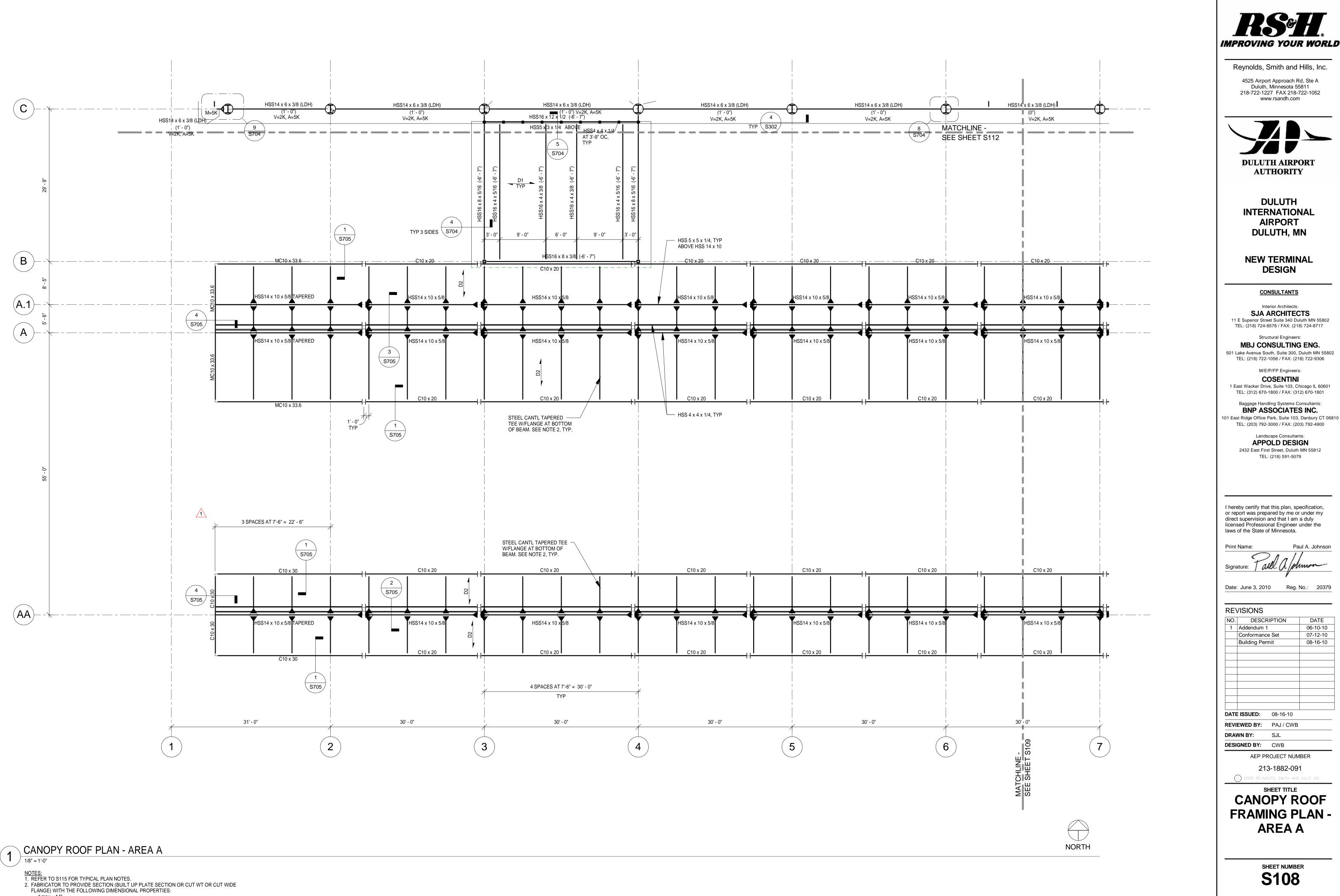
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Date: June 3, 2010 Reg. No.: 2037	9
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DATE ISSUED:       08-16-10         REVIEWED BY:       PAJ / CWB	_
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**S107** 

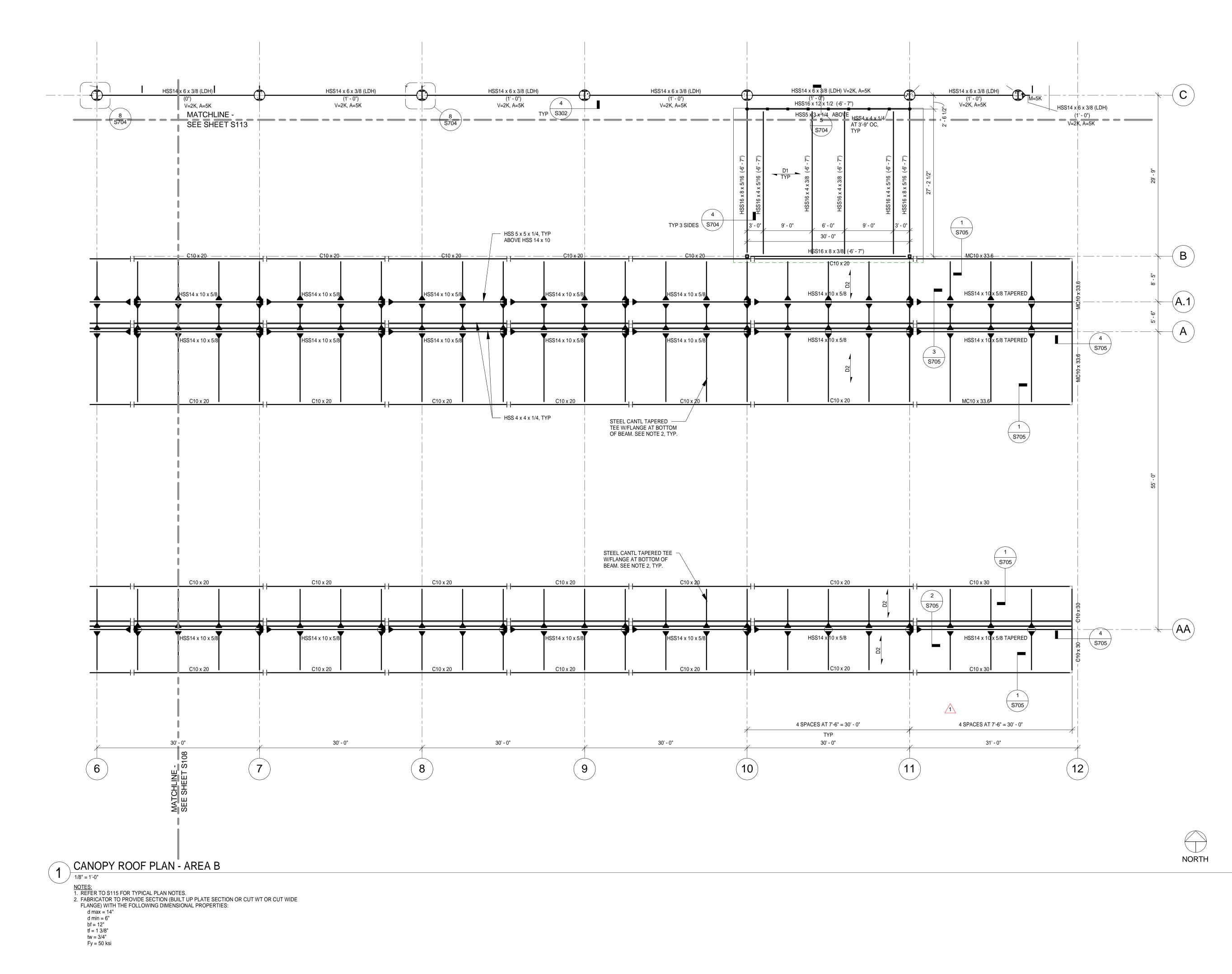
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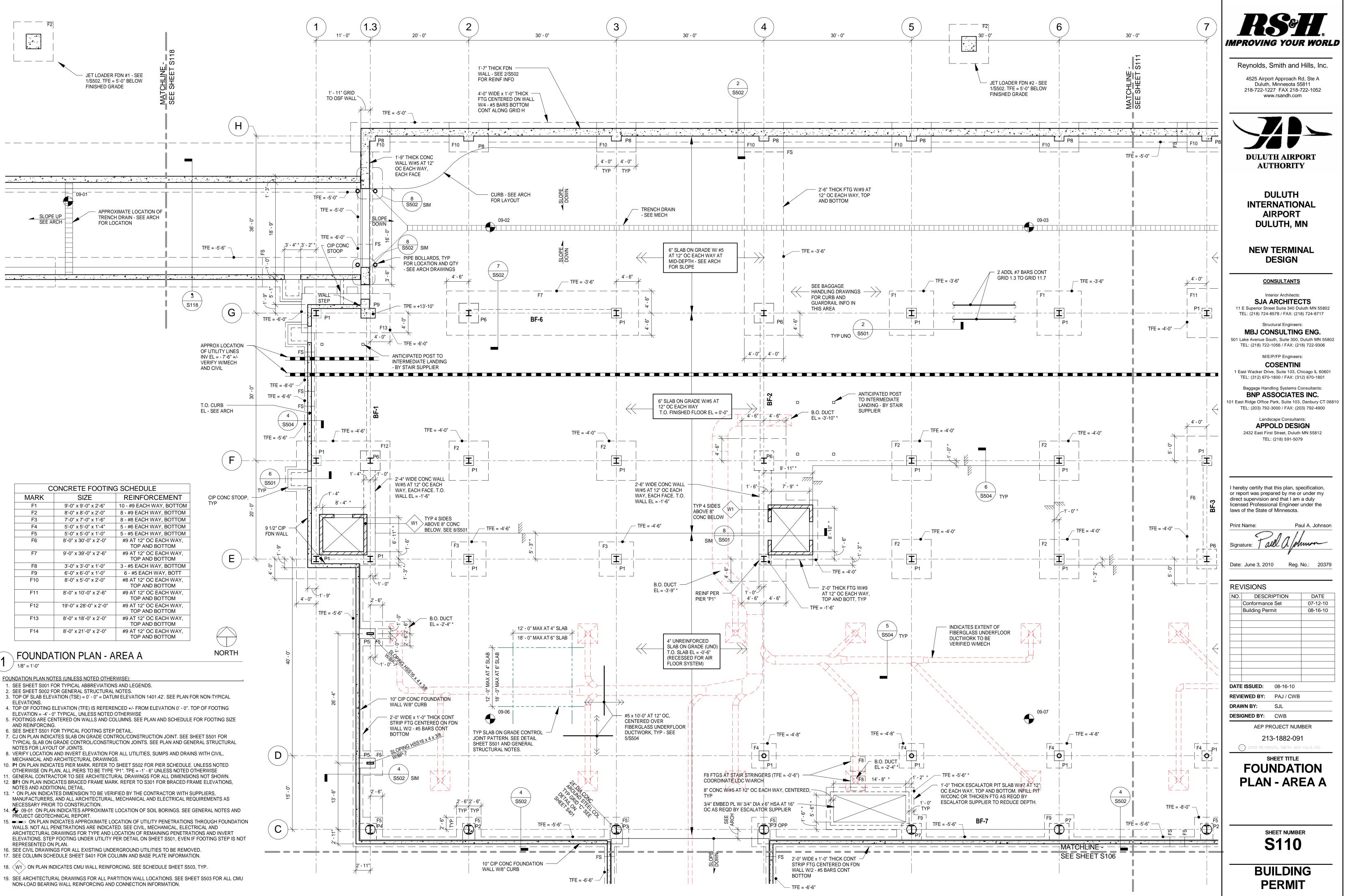


d max = 14" d min = 6" bf = 12" tf = 1 3/8" tw = 3/4" Fy = 50 ksi

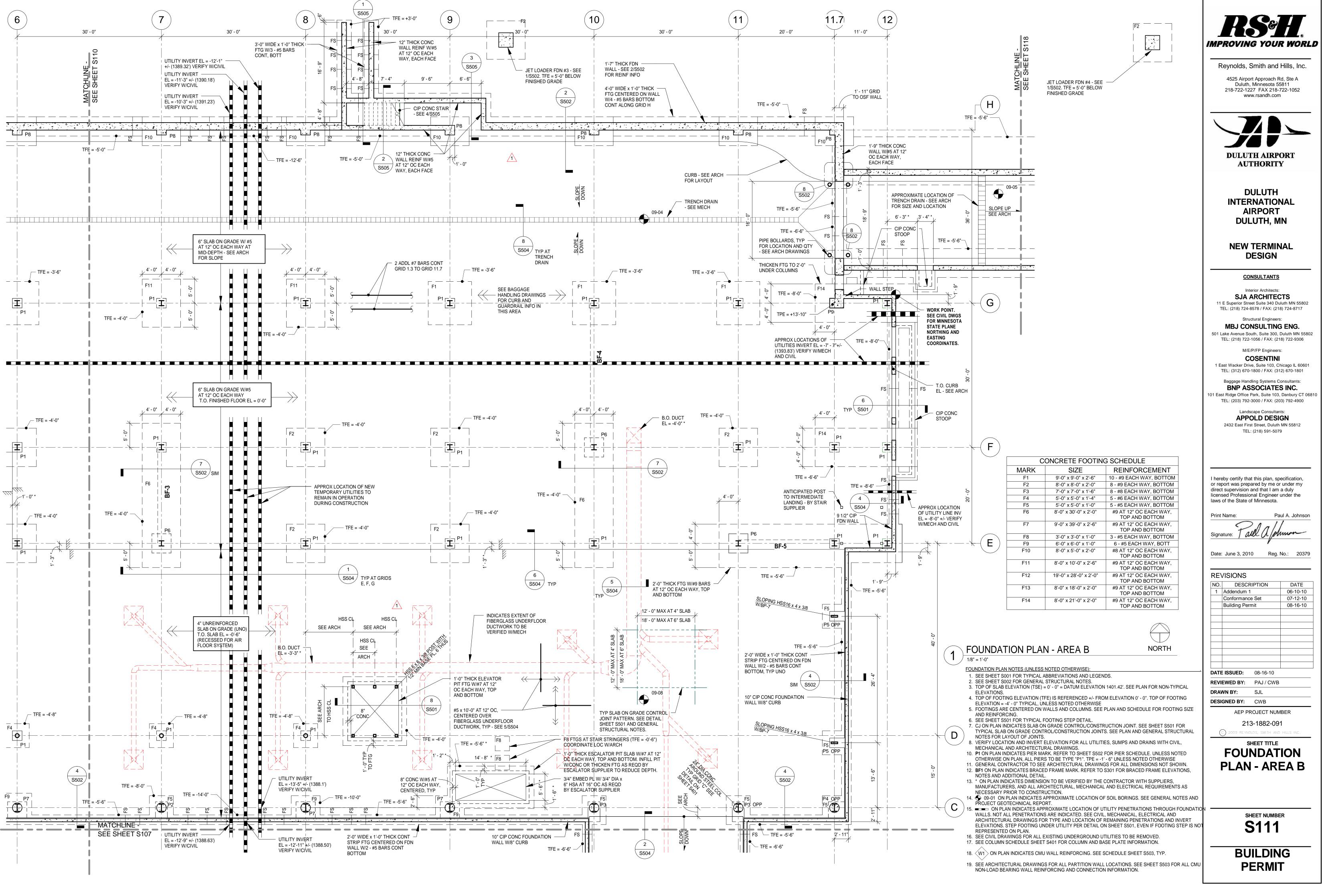
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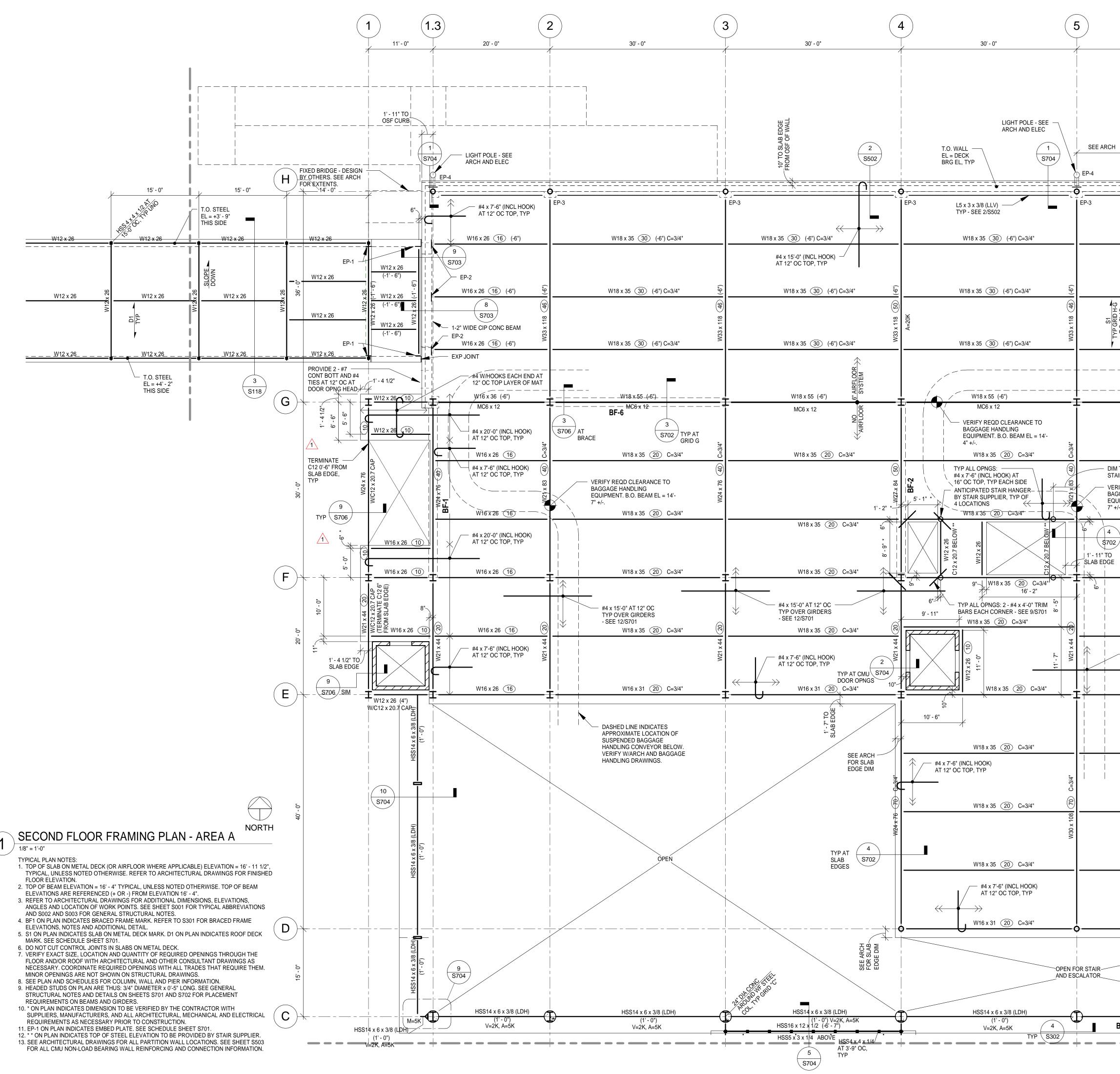


MP	ROVING YOU	
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	DULUTH AIRP AUTHORIT	
	DULUTH INTERNATIOI AIRPORT DULUTH, N	
	NEW TERMIN DESIGN	IAL
	CONSULTANTS	
11	Interior Architects: <b>SJA ARCHITEC</b> E Superior Street Suite 340 Du	
	EL: (218) 724-8578 / FAX: (21 Structural Engineers	8) 724-8717 S:
	INBJ CONSOL TING ake Avenue South, Suite 300, TEL: (218) 722-1056 / FAX: (2	Duluth MN 558
	M/E/P/FP Engineers COSENTINI	
	ast Wacker Drive, Suite 103, C TEL: (312) 670-1800 / FAX: (3 Baggage Handling Systems C	12) 670-1801
	BNP ASSOCIATE st Ridge Office Park, Suite 103 TEL: (203) 792-3000 / FAX: (20	<b>S INC.</b> , Danbury CT 0
	Landscape Consultar	its:
	2432 East First Street, Duluth TEL: (218) 591-507	
or rej direc licens laws Print	eby certify that this plan, sp port was prepared by me o t supervision and that I am sed Professional Engineer of the State of Minnesota. Name: Pa ature: Pall Q/M	r under my a duly
		No: 2027
		No.: 20379
RE\ NO. 1	/ISIONS DESCRIPTION Addendum 1 Conformance Set Building Permit	DATE 06-10-10 07-12-10 08-16-10
REVI	E ISSUED: 08-16-10 EWED BY: PAJ / CWB	
	NN BY: SJL GNED BY: CWB	
	AEP PROJECT NUM 213-1882-09	
(	C) 2009 REYNOLDS, SMITH ANE	-
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F	RAMING P AREA E	
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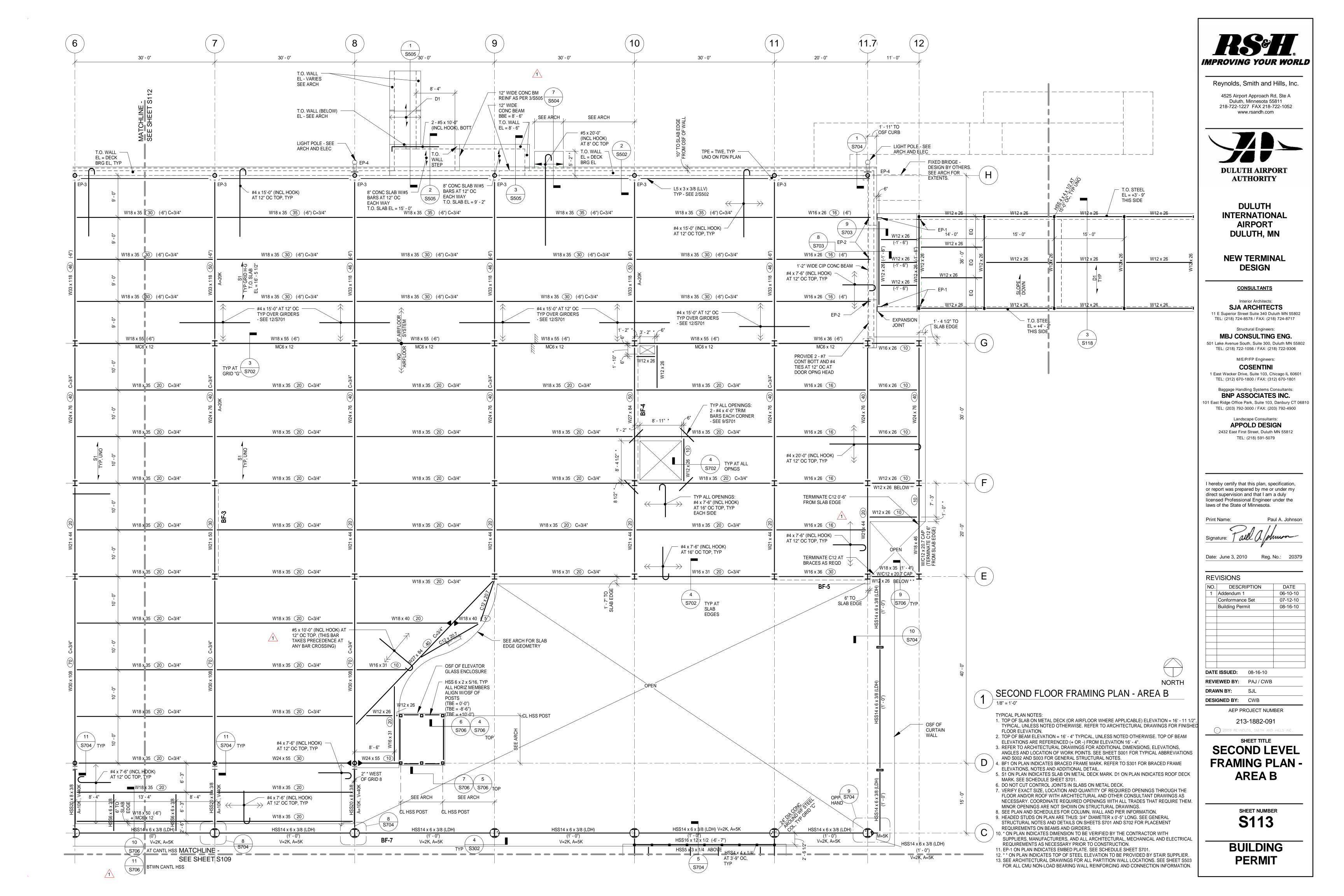
19. SEE ARCHITECTURAL DRAWINGS FOR ALL PARTITION WALL LOCATIONS. SEE SHEET S503 FOR ALL CMU

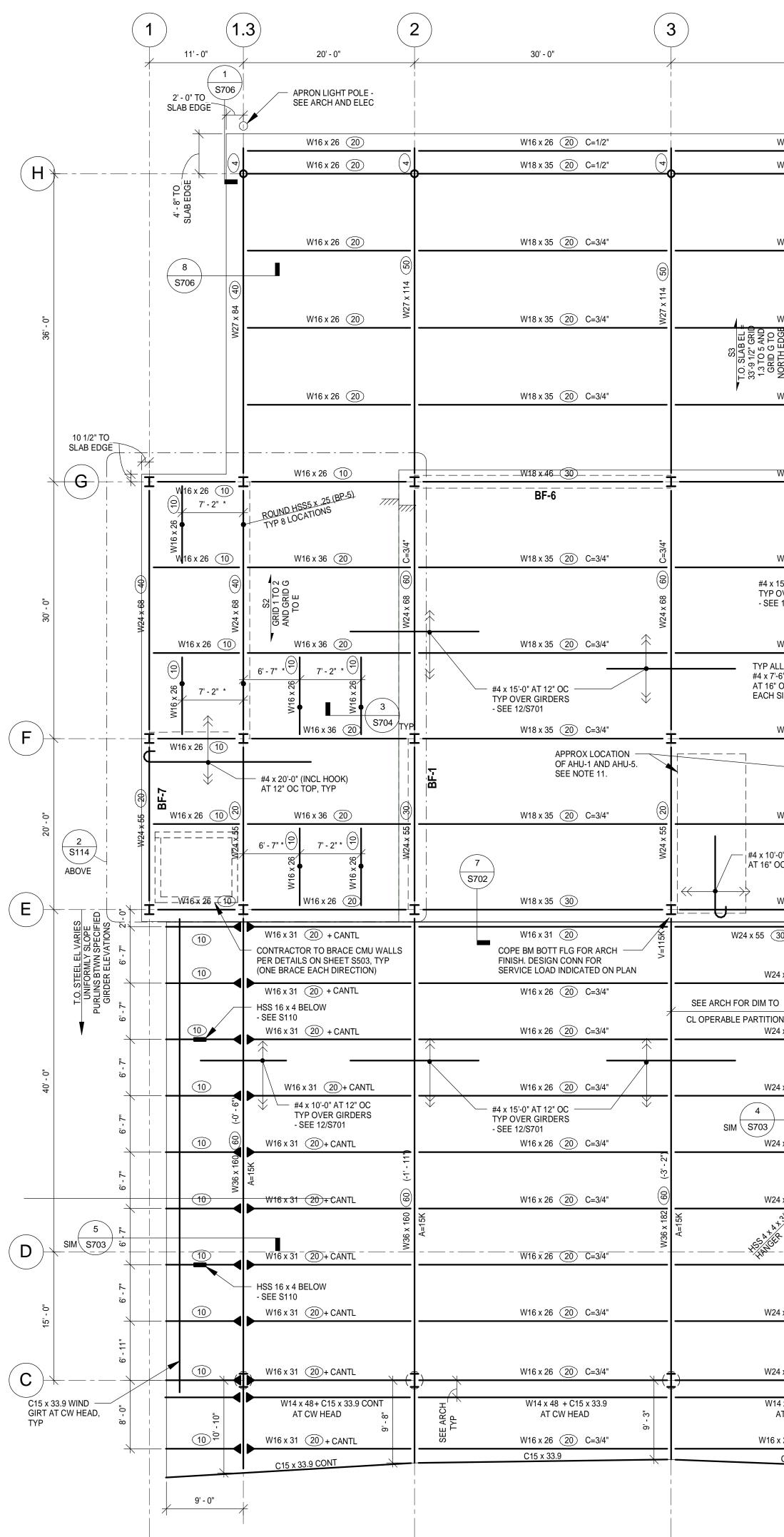




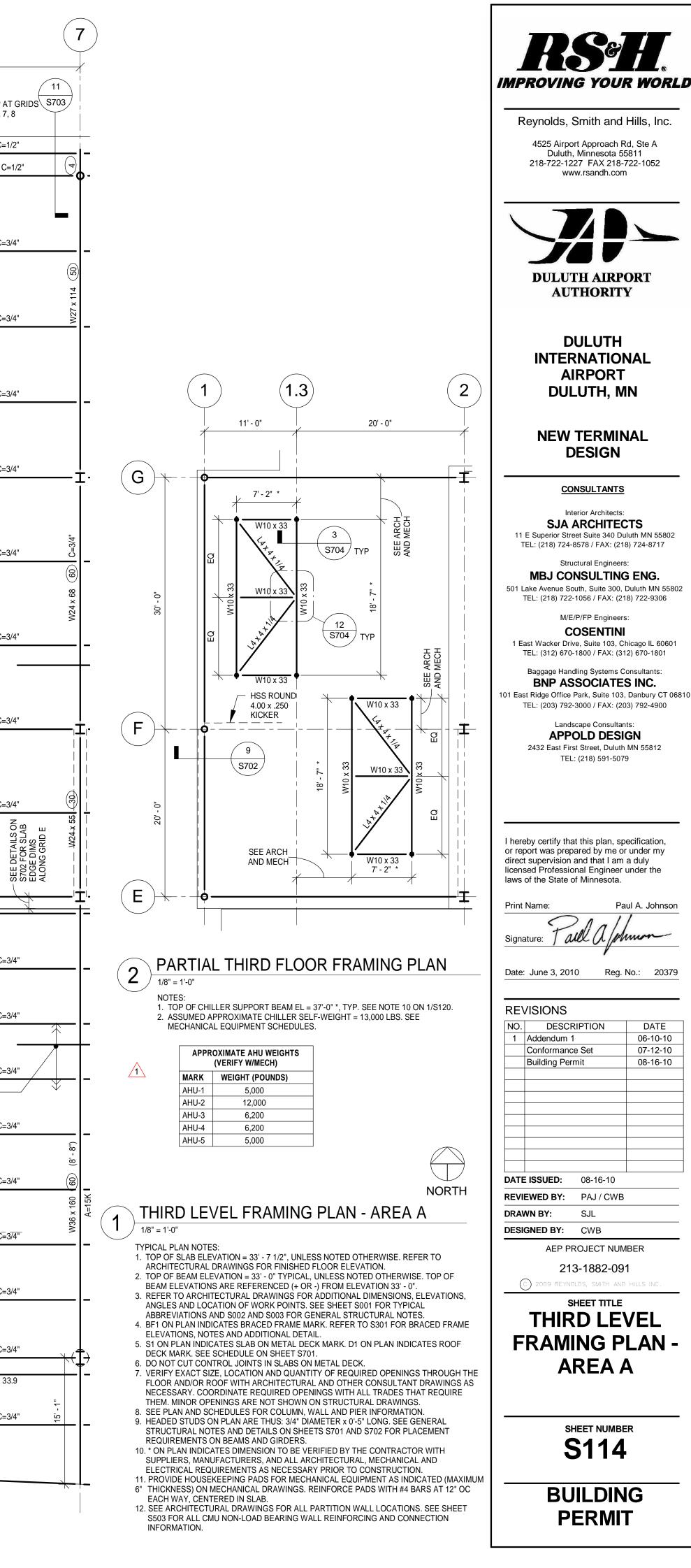
30' - 0"	<b>6 7 30' - 0"</b>
7         \$504         #5 x 20'-0" (INCL HOOK)         AT 8" OC TOP         TPE = TWE, TYP         UNO ON FDN PLAN         \$	T.O. WALL EL = DECK BRG EL, TYP
#4 x 15'-0" (INCL HOOK)	EP-3 50 50 W18 x 35 30 (-6") C=3/4" 50 50 50 50 50 50 50 50 50 50
W18 x 35 30 (-6") C=3/4" W18 x 35 30 (-6") C=3/4" W18 x 35 30 (-6") C=3/4" W18 x 35 30 (-6") C=3/4"	۲     1     1 </td
 W18 x 55 (-6") MC6 x 12 TYP AT	₩18 x 55 (-6") MC6 x 12 0 -0 -0 -0 -0
GRID "G" W18 x 35 20 C=3/4" W18 x 35 20 C=3/4" TO HANGER BY AIR SUPPLIER, TYP RIFY REQD CLEARANCE TO GGAGE HANDLING UIPMENT. B.O. BEAM EL = 14'- -/ W18 x 35 20 C=3/4"	W18 x 35 20 C=3/4" (9)
TYP ALL           OPENINGS           W18 x 35 (20) C=3/4"	W18 x 35 (20) C=3/4"
#4 x 15'-0" AT 12" OC TYP OVER GIRDERS - SEE 12/S701 W18 x 35 20 C=3/4" #4 x 15'-0" AT 12" OC TYP OVER GIRDERS - SEE 12/S701	
W18 x 35 (20) C=3/4"	W18 x 35 (20) C=3/4"
W18 x 35 20 C=3/4"	W18 x 35 (20) C=3/4"
₩18 x 35 20 C=3/4"	02 0 0 0 0 0 0 0 0 0 0 0 0 0
W16 x 31 20 C=3/4" SLAB EDGE 2" * EAST OF GRID 6 8 S704	W18 x 35 20 C=3/4" W18 x 35 20 C=3/4" #4 x 7'-6" (INCL HOOK) AT 12" OC TOP, TYP W18 x 35 20 W18 x 35 2
HSS14 x 6 x 3/8 (LDH) (1' - 0") BF-7 V=2K, A=5K	Image: Control of the second state of the second

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AIRPORT DULUTH, MN
NEW TERMINAL DESIGN
CONSULTANTS
Interior Architects: <b>SJA ARCHITECTS</b> 11 E Superior Street Suite 340 Duluth MN 55802 TEL: (218) 724-8578 / FAX: (218) 724-8717
Structural Engineers: <b>MBJ CONSULTING ENG.</b> 501 Lake Avenue South, Suite 300, Duluth MN 55802 TEL: (218) 722-1056 / FAX: (218) 722-9306
M/E/P/FP Engineers: <b>COSENTINI</b> 1 East Wacker Drive, Suite 103, Chicago IL 60601 TEL: (312) 670-1800 / FAX: (312) 670-1801
Baggage Handling Systems Consultants: BNP ASSOCIATES INC. 01 East Ridge Office Park, Suite 103, Danbury CT 06810
TEL: (203) 792-3000 / FAX: (203) 792-4900 Landscape Consultants: APPOLD DESIGN
2432 East First Street, Duluth MN 55812 TEL: (218) 591-5079
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: Paul A. Johnson
Signature: Tall a Johnmon
Date: June 3, 2010 Reg. No.: 20379
REVISIONS NO. DESCRIPTION DATE
1         Addendum 1         06-10-10           Conformance Set         07-12-10
DATE ISSUED: 08-16-10 REVIEWED BY: PAJ / CWB
DRAWN BY: SJL DESIGNED BY: CWB
AEP PROJECT NUMBER
<b>213-1882-091</b> C 2009 REYNOLDS, SMITH AND HILLS INC.
SHEET TITLE SECOND LEVEL
FRAMING PLAN - AREA A
SHEET NUMBER
SHEET NOMBER
BUILDING PERMIT





30' - 0"	<b>4</b> 30' - 0"	5	<b>6</b> 30' - 0" <b>1</b>
TYP AT GRIDS 6 1.3, 2, 3, 4	APRON LIGHT POLE - SEE ARCH AND ELEC	SEE ARCH FOR DIM TO CL OPERABLE PARTITION	W16 x 26       20       C=1/2"
W16 x 26         20         C=1/2"           W18 x 35         20         C=1/2"         (र)	W16 x 26         20         C=1/2"           W18 x 35         30         C=1/2"	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	₩18×35 (20) C−1/2
		■ − − − − − − − − − − − − − − − − − − −	
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W18 x 35 (20) C=3/4"		(P) (P) (P) (P) (P) (P) (P) (P)	Ō
NORTH EDGE	•	4 L3 x 3 x 1/4 KICKER, TYP	-0
	T.O. 6" CONC CURB EL - SEE ARCH	S703	ה ו
W18 x 35 (20) C=3/4"	W18 x 35 30 C=3/4"	WIG X GG (20) CE0/4 W8 x 35 FOR PARTITION SUPPORT. VERIFY B.O. BEAM EL W/PARTITION SUPPLIER	W18 x 35 20 C=3/4"
W18 x 35 (20) C=3/4"	W18 x 35 (20) C=3/4"	W18 x 35 30 C=3/4"	W18 x 35 20 C=3/4"
W18 x 35 (20) C=3/4"	₩18 x 35 ② C=3/4"	SEE ARCH FOR- DIM TO ENDS OF CURB, TYP EACH END A18x 32 C=3/4" C=3/4"	© ₩18 x 35 (20) C=3/4"
x 15'-0" AT 12" OC P OVER GIRDERS	DIM TO HANGER BY		
EE 12/S701 W18 x 35 (20) C=3/4"	ANTICIPATED STAIR SUPPLIER, TYP OF 4 LOCATIONS W18 x 35 20 C=3/4"	W18 x 35 (20) C=3/4"	₩18 x 35 ② C=3/4"
ALL OPENINGS: 7'-6" (INCL HOOK) 6" OC TOP, TYP H SIDE W18 x 35 (20) C=3/4"	W12 x 20.7 BELOW * W12 x 20.7 BELOW * W12 x 20.7 BELOW *	1' - 11" TO SLAB EDGE #4 x 15'-0" AT 12" OC TYP OVER GIRDERS - SEE 12/S701 W18 x 35 20 C=3/4"	₩18 x 35 (20) C=3/4"
Г — — — Л 1'-2"—	W18 x 35 20 C=3/4" 15' - 0" *		
	6" <sup>#</sup> TYP ALL OPENINGS: 2 - #4 x 4'-0" TRIM BARS EACH CORNER - SEE 9/S701 <sup>©</sup>		10 <sup>-</sup>
W18 x 35 (20) C=3/4"		W18 x 35 (20) C=3/4"	W18 x 35 (20) C=3/4"
0'-0" (INCL HOOK) ' OC TOP, TYP TYP AT CMU DOOR OPNGS W18 x 35 (30) 10"-5	M18 x 35 (30)	8 S702 W18 x 35 (30)	U S S S S S S S S S S S S S
		W16 x 31 (20)	W16 x 31 (20)
30 /24 x 55 30 	6" ₩16 x 31 ② W16 x 26 ② C=3/4" ↔ #4 x 10'-0" (INCL HOOK) —		W16 x 26 (20) C=3/4"
FO ION /24 x 55 30	AT 12" OC TOP, TYP W16 x 26 (20) C=3/4"	W16 x 26 (20) C=3/4"	₩16 x 26 ② C=3/4"
/24 x 55 ③	W16 x 26 20 C=3/4"	W16 x 26 (20) C=3/4"	W16 x 26 (20) C=3/4"
)	#4 x 15'-0" AT 12" OC TYP OVER GIRDERS - SEE 12/S701		#4 x 15'-0" AT 12" OC TYP OVER GIRDERS - SEE 12/S701
/24 x 55 30 	W16 x 26 (20) C=3/4"	W16 x 26 (20) C=3/4"	W16 x 26 (20) C=3/4"
/24 x 55 30 PARTITION 5UPPORT (TBE - SEE ARCH)			W16 x 26 ② C=3/4"
<u>V</u>	A=15K	$\subseteq$ $\bigcirc$	A=15K
	W16 x 26 20 C=3/4"	W16 x 26 20 C=3/4"	
/24 x 55 30	W16 x 26 (20) C=3/4"	W16 x 26 (20) C=3/4"	W16 x 26 (20) C=3/4"
		TYP 10 5703	
/24 x 55 30	W16 x 26 (20) C=3/4"	BF-7 <sub>W16 x 26</sub> (20) C=3/4"	W16 x 26 (20) C=3/4"
 /14 x 48+ C15 x 33.9 AT CW HEAD	W14 x 48 + C15 x 33.9 AT CW HEAD	W14 x 48+ C15 x 33.9 AT CW HEAD	W14 x 48 + C15 x 33.9 AT CW HEAD
6 x 26 (20) C=3/4"	W16 x 26 ② C=3/4" 한	₩16 x 26 (20) C=3/4" (20)	W16 x 26 (20) C=3/4"
C15 x 33.9	C15 x 33.9	C15 x 33.9	C15 x 33.9
	S703		



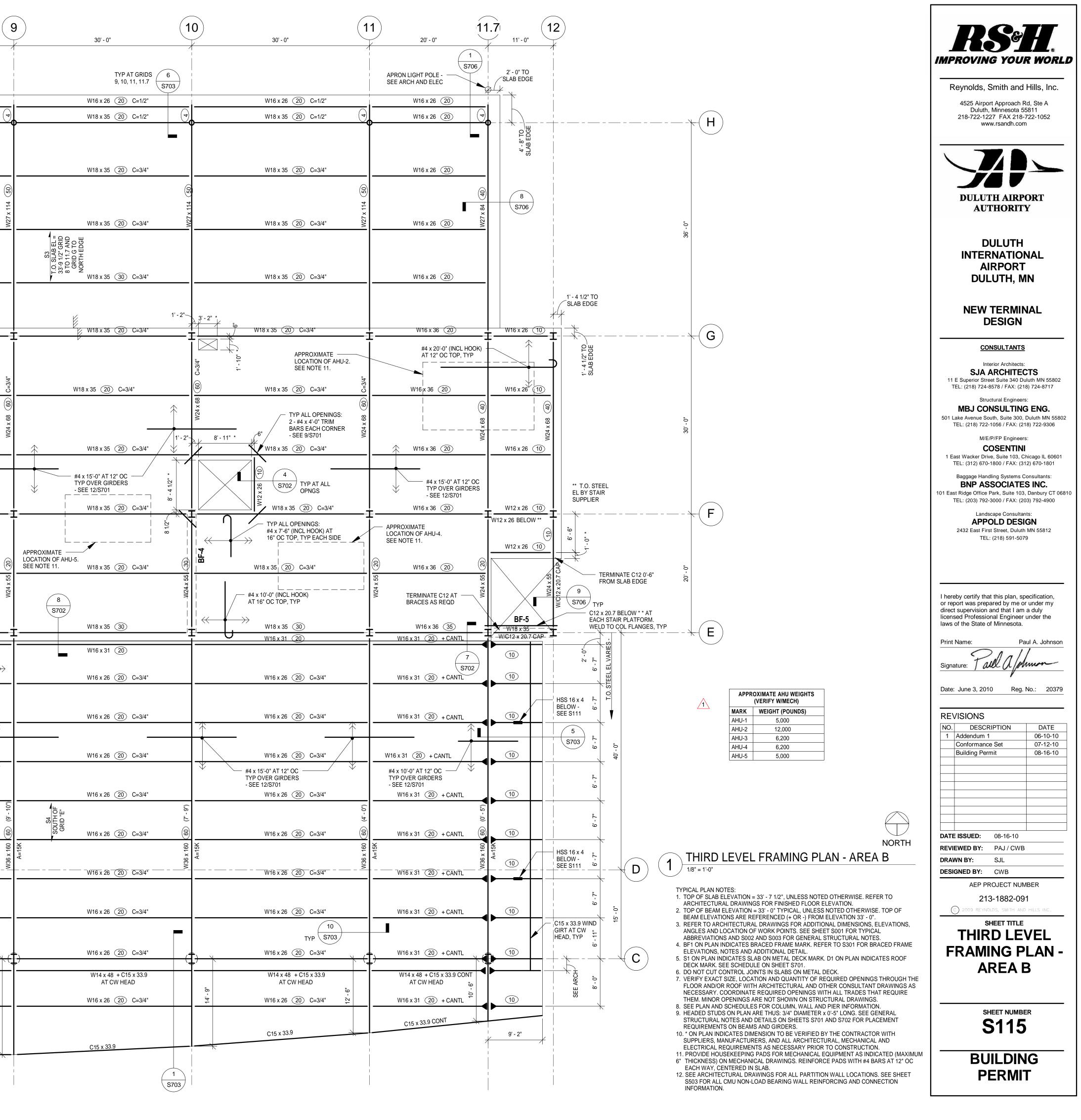
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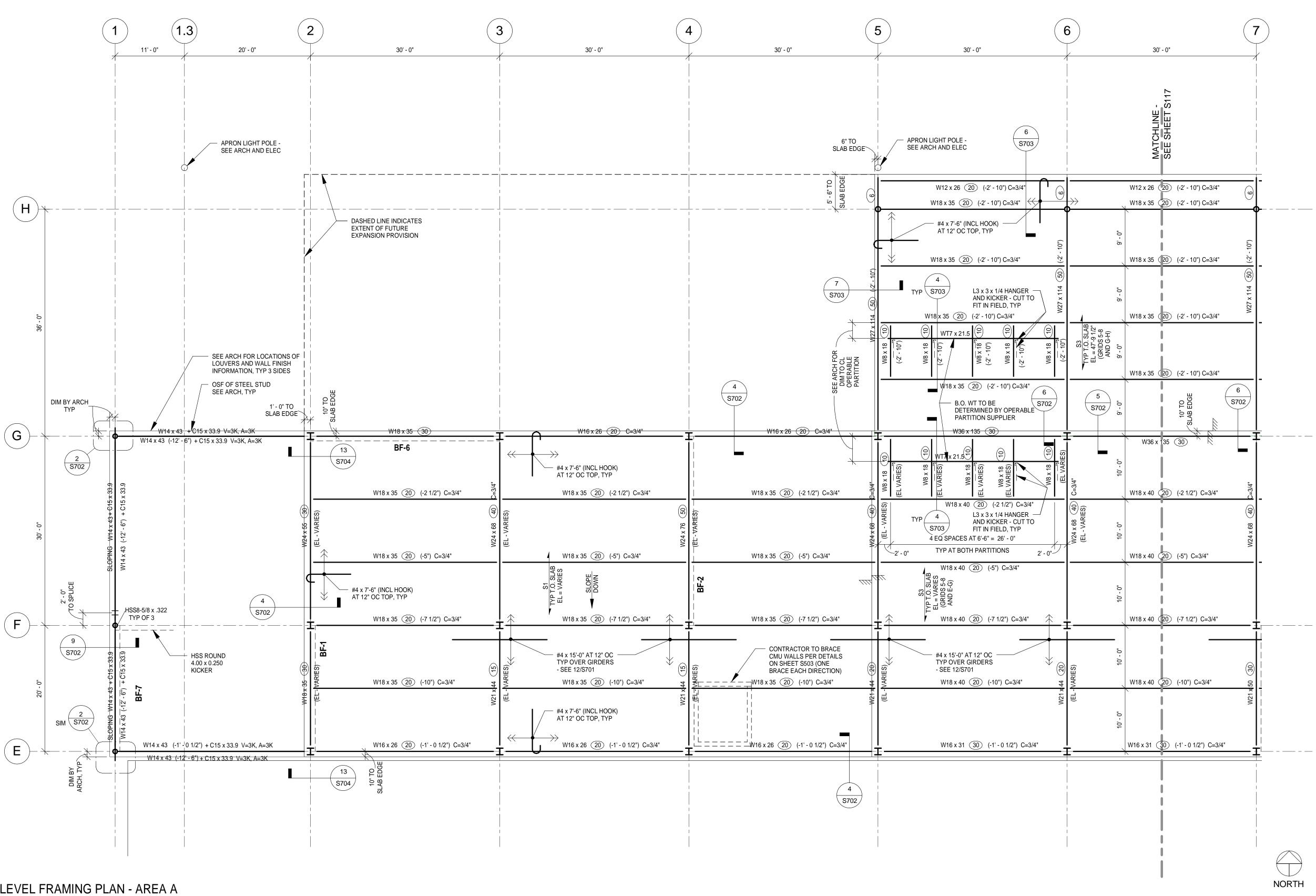
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6		30' - 0" 5	<b>(7</b>		30' - 0"		8)	30' - 0"	(
		WATCHLINE MATCHLINE SEE SHEET S <sup>2, 6, 7, 8</sup>	GRIDS S703		APRON LIGHT POLE SEE ARCH AND ELEC			SEE ARCH FOR SLAB EDGE DIMS, TYP	
~ <b>-</b>		W16 x 26 20 C=1/2	"		W16 x 26 (20) C=1/2		×∕∕ ·I-∓-	W16 x 26 (20) C=1/2"	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	W18 x 35 20 C=1/	2" (7)	)	W18 x 35 (20) C=1/2"		<b> </b>	W18 x 35 (30) C=1/2"	(
	9, - O"			#4 x AT ^	(10'-0" (INCL HOOK)	_		1' - 6" GRID TO OSF CURB	
	0	W18 x 35 20 C=3/4	"		W18 x 35 (20) C=3/4	4"		W18 x 35 (30) C=3/4"	
20	=		(2)						
W27 x 114	- 0 - 0		- W27 x 114			4" V		T.O. 6" CONC CURB EL - SEE ARCH	
- M2		W18 x 35 20 C=3/4			W18 x 35 (20) C=3/4	4"		W18 x 35 30 C=3/4"	
	- 0 0- 10							77	
_		W18 x 35 (20) C=3/4	"		W18 x 35 (20) C=3/4	4"		W18 x 35 (30) C=3/4"	
	=_	l					++	<u>6</u> S704	
	0 <sup>.</sup> - 0"								
‡—		W18 x 35 20 C=3/4	" 		W18 x 35 (20) C=3/4	4"	<u>+</u>	W18 x 35 (20) C=3/4"	
	10' - 0"			S1 TYP. UNO				SEE ARCH FOR- DIM TO ENDS OF CURB, TYP EACH END	
C=3/4"	<del>,</del>	W18 x 35 20 C=3/4	С=3/4"	I T T	W18 x 35 (20) C=3/4	4" -	5	₩₩₩ ₩₩ ₩ ₩ ₩ 18 x 35 (20) C=3/4"	
(60) <b>,</b> C=3/4"			6						l
W24 x 68	10' - 0"		W24 x 68			as v rcm			
<		W18 x 35 ② C=3/4		余	W18 x 35 (20) C=3/4			W18 x 35 (20) C=3/4"	
				_			-		
	10' - 0"	l		*		¥			
 		W18 x 35 20 C=3/4	" 	-	W18 x 35 (20) C=3/4	4"	 <u> </u> -	W18 x 35 (20) C=3/4"	
	50								
<u></u>	10' - 0"			BF-3		G	)		
W24 x 551 (20)		W18 x 35 20 C=3/4			W18 x 35 (20) C=3/4			W18 x 35 (20) C=3/4"	
W24	10' - 0"	ETAILS	S702 FOR SLAB EDGE DIMS ALONG GRID E 			1004 × 55			
	10	□ ₩ ₩18 x 35 ③ \	S702 F EDGE ALONO		W18 x 35 (30)			W18 x 35 (30)	
⊥ -	X			=  = 			<u> </u>		<u> </u>
		W16 x 31 (20)			W16 x 31 (20)			W16 x 31 (20)	
-		W16 x 26 20 C=3/4	"		W16 x 26 (20) C=3/4	4"	. —	W16 x 26 (20) C=3/4" /	
								#4 x 10'-0" (INCL HOOK)/	
-		W16 x 26 (20) C=3/4	*		W16 x 26 (20) C=3/4	4"	-	W16 x 26 (20) C=3/4"	
		W16 x 26 ② C=3/4	"		W16 x 26 (20) C=3/4	4"		W16 x 26 (20) C=3/4"	
-	#4 x	x 15'-0" AT 12" OC							¥
_		EE 12/S701 W16 x 26 20 C=3/4	"		W16 x 26 (20) C=3/4			- SEE 12/S701 W16 x 26 ② C=3/4"	
(5' - 6")			(8' - 8")			(" r0r)			
<u></u>		W16 x 26 20 C=3/4		~	W16 x 26 (20) C=3/4			W16 x 26 (20) C=3/4"	(
W36 x 160 A=15K			W36 x 160	A=15K			A=15K		
		W16 x 26 20 C=3/4			W16 x 26 20 C=3/4	4"		W16 x 26 20 C=3/4"	
						41			
-		W16 x 26 20 C=3/4			W16 x 26 (20) C=3/4	4	-	W16 x 26 (20) C=3/4"	
		W16 x 26 (20) C=3/4	"	_	W16 x 26 (20) C=3/4	4"		<b>BF-7</b> W16 x 26 (20) C=3/4"	
( <del>])</del> -		W14 x 48 + C15 x 33.9		<del>)</del>	W14 x 48 + C15 x 33.		- <u></u> [→ -[—	W14 x 48 + C15 x 33.9	
		AT CW HEAD			AT CW HEAD	= 		AT CW HEAD	16' - 2"
-		W16 x 26 (20) C=3/4	<u></u>		W16 x 26 (20) C=3/4	4" <u>Q</u>	-	W16 x 26 (20) C=3/4"	16
		C15 x 33.9			C15 x 33.9			C15 x 33.9	



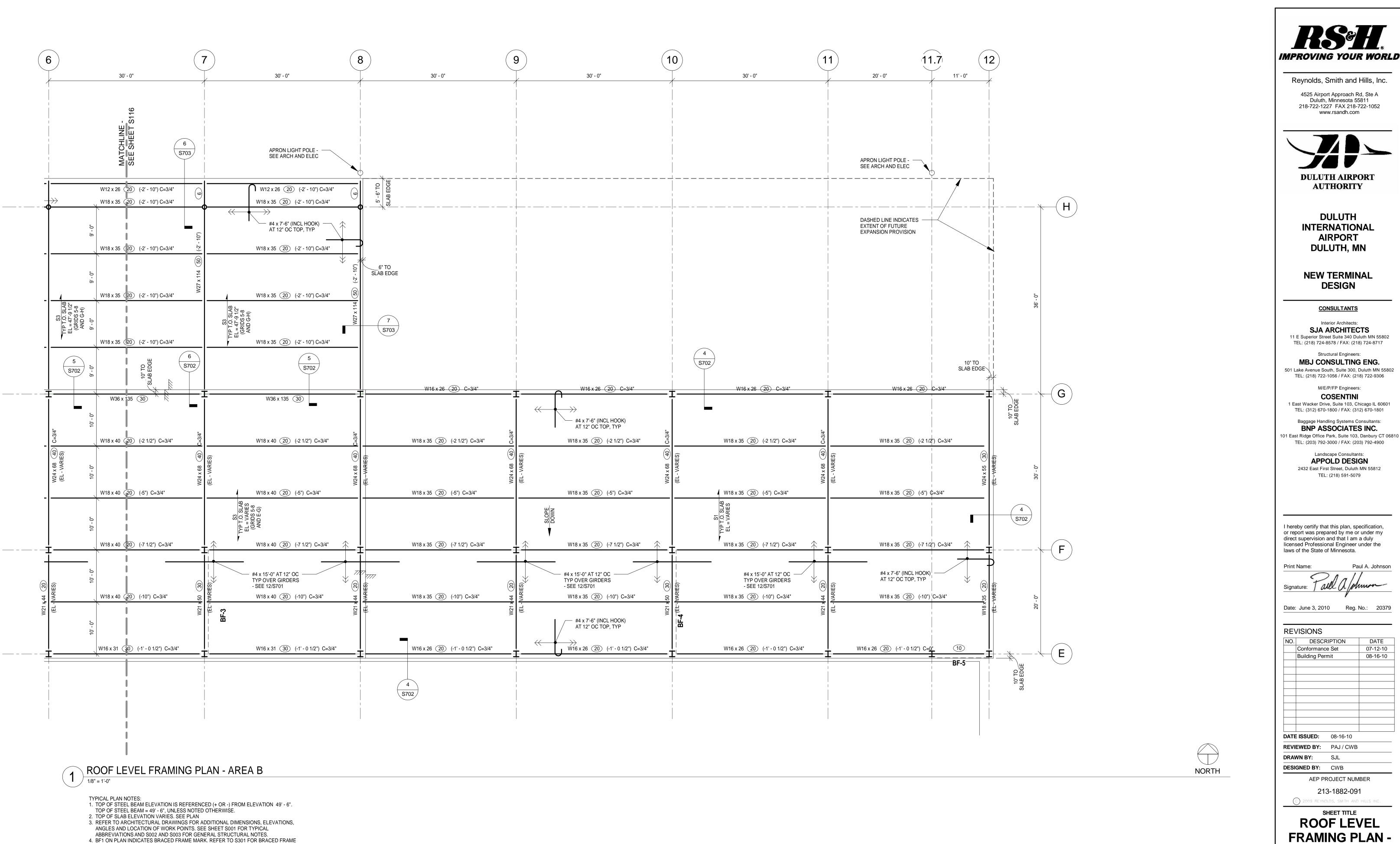


# 1 ROOF LEVEL FRAMING PLAN - AREA A

TYPICAL PLAN NOTES:

- TOP OF STEEL BEAM ELEVATION IS REFERENCED (+ OR -) FROM ELEVATION 49' 6". TOP OF STEEL BEAM = 49' - 6", UNLESS NOTED OTHERWISE.
   TOP OF SLAB ELEVATION VARIES. SEE PLAN
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS, ANGLES AND LOCATION OF WORK POINTS. SEE SHEET S001 FOR TYPICAL ABBREVIATIONS AND S002 AND S003 FOR GENERAL STRUCTURAL NOTES.
- BF1 ON PLAN INDICATES BRACED FRAME MARK. REFER TO \$301 FOR BRACED FRAME
- ELEVATIONS, NOTES AND ADDITIONAL DETAIL. 5. S1 ON PLAN INDICATES SLAB ON METAL DECK MARK. D1 ON PLAN INDICATES ROOF
- DECK MARK. SEE SCHEDULE ON SHEET S701. 6. DO NOT CUT CONTROL JOINTS IN SLABS ON METAL DECK.
- 7. VERIFY EXACT SIZE, LOCATION AND QUANTITY OF REQUIRED OPENINGS THROUGH THE FLOOR AND/OR ROOF WITH ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS AS NECESSARY. COORDINATE REQUIRED OPENINGS WITH ALL TRADES THAT REQUIRE
- THEM. MINOR OPENINGS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
  8. SEE PLAN AND SCHEDULES FOR COLUMN, WALL AND PIER INFORMATION.
  9. HEADED STUDS ON PLAN ARE THUS: 3/4" DIAMETER x 0'-5" LONG. SEE GENERAL STRUCTURAL NOTES AND DETAILS ON SHEETS S701 AND S702 FOR PLACEMENT REQUIREMENTS ON BEAMS AND GIRDERS.
- 10. \* ON PLAN INDICATES DIMENSION TO BE VERIFIED BY THE CONTRACTOR WITH SUPPLIERS, MANUFACTURERS, AND ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS AS NECESSARY PRIOR TO CONSTRUCTION.

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<u>CONSULTANTS</u>
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1 East Wacker Drive, Suite 103, Chicago IL 60601 TEL: (312) 670-1800 / FAX: (312) 670-1801 Baggage Handling Systems Consultants: BNP ASSOCIATES INC.
101 East Ridge Office Park, Suite 103, Danbury CT 06810 TEL: (203) 792-3000 / FAX: (203) 792-4900
Landscape Consultants: APPOLD DESIGN 2432 East First Street, Duluth MN 55812
I hereby certify that this plan, specification,
or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: Paul A. Johnson
Signature: Tall a phonon
Date: June 3, 2010 Reg. No.: 20379
REVISIONS
NO.         DESCRIPTION         DATE           Conformance Set         07-12-10
Building Permit 08-16-10
DATE ISSUED:08-16-10REVIEWED BY:PAJ / CWB
DRAWN BY: SJL DESIGNED BY: CWB
AEP PROJECT NUMBER
213-1882-091
SHEET TITLE
ROOF LEVEL FRAMING PLAN -
FRAMING PLAN -



**AREA B** 

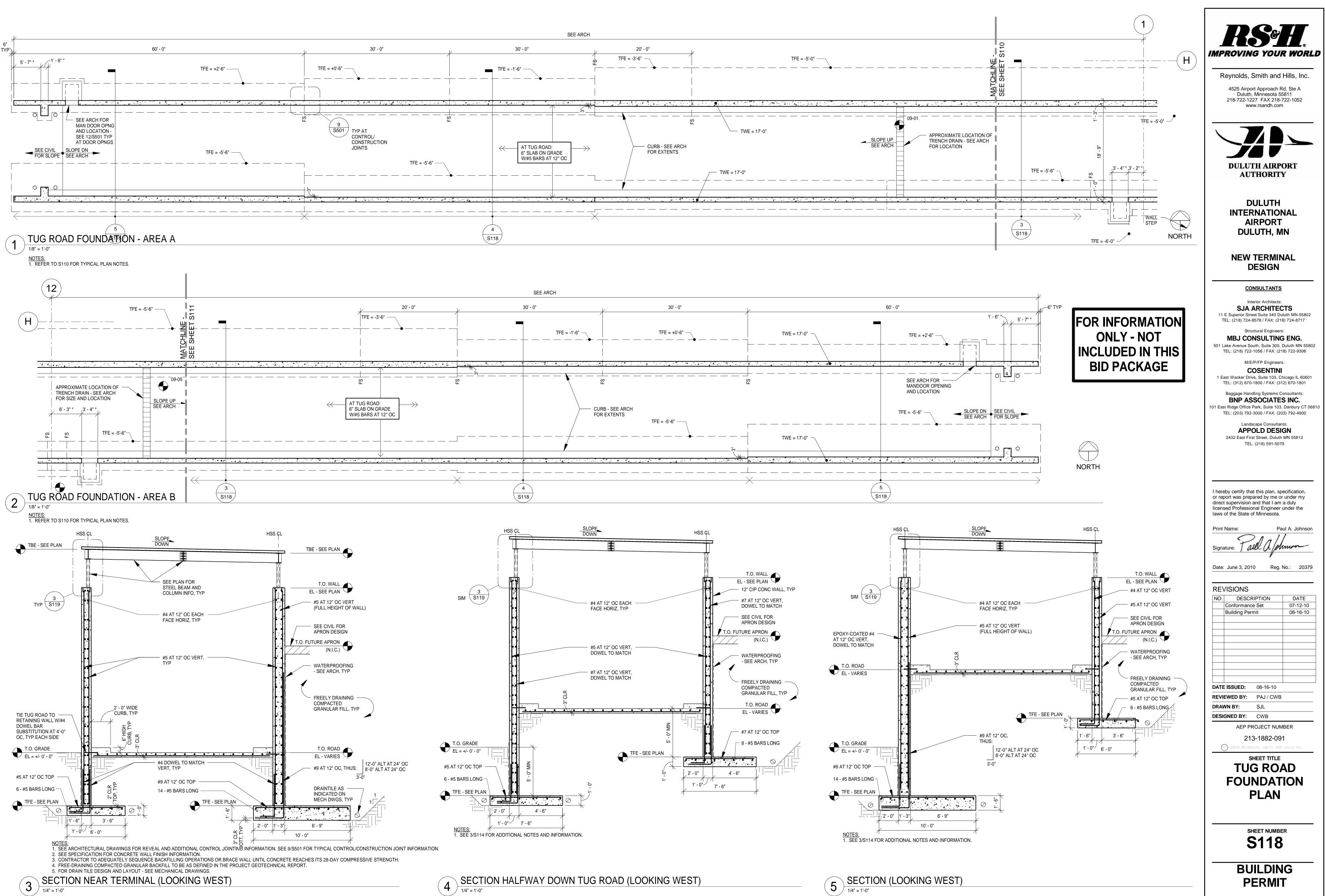
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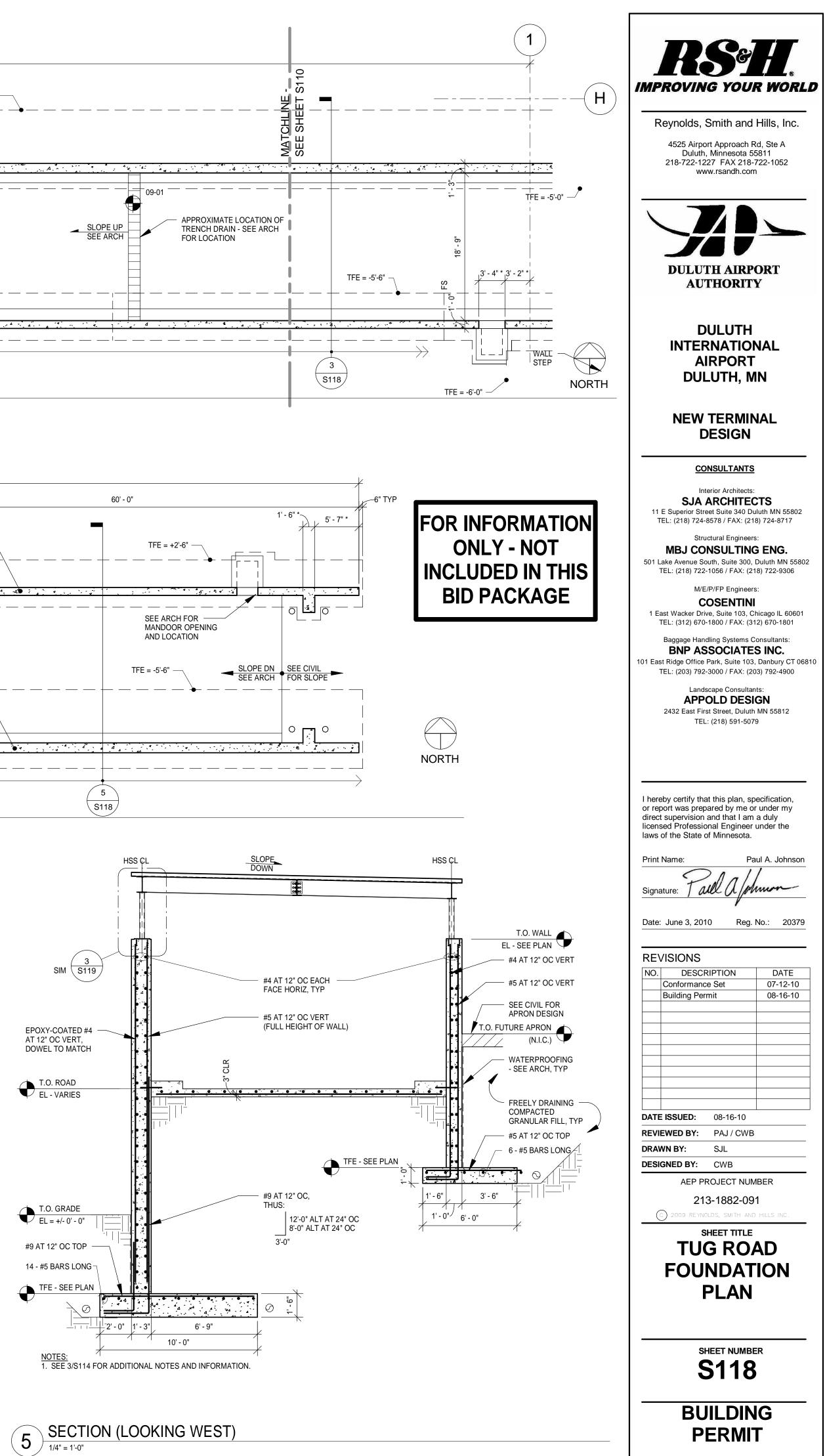
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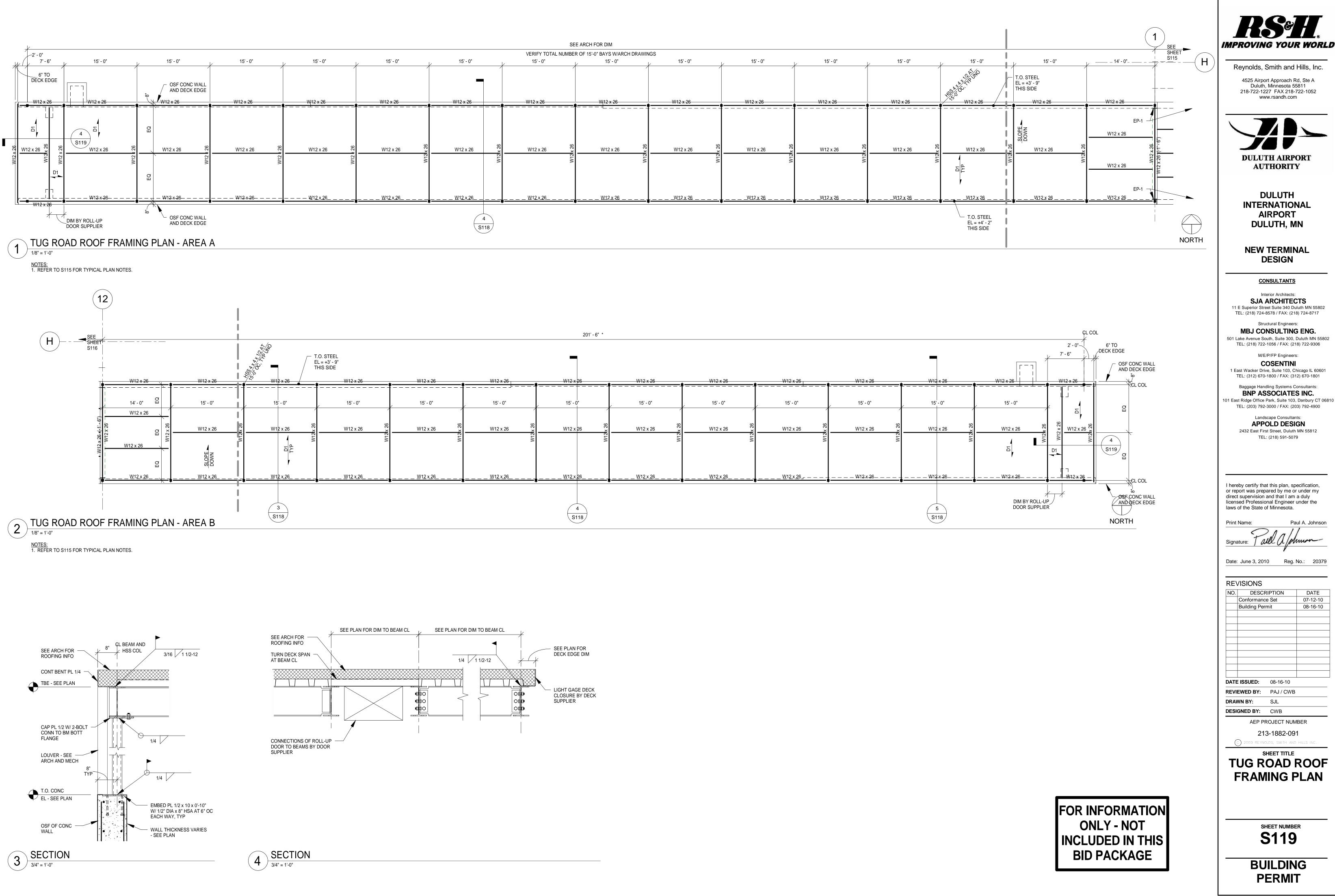
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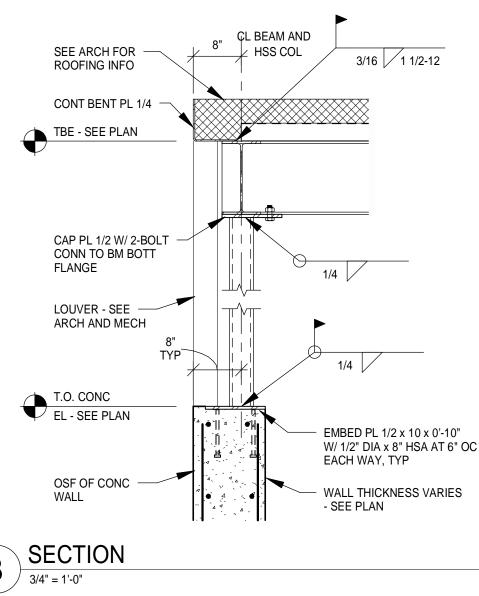
- 4. BF1 ON PLAN INDICATES BRACED FRAME MARK. REFER TO S301 FOR BRACED FRAME
- ELEVATIONS, NOTES AND ADDITIONAL DETAIL. 5. S1 ON PLAN INDICATES SLAB ON METAL DECK MARK. D1 ON PLAN INDICATES ROOF
- DECK MARK. SEE SCHEDULE ON SHEET S701. 6. DO NOT CUT CONTROL JOINTS IN SLABS ON METAL DECK.
- 7. VERIFY EXACT SIZE, LOCATION AND QUANTITY OF REQUIRED OPENINGS THROUGH THE FLOOR AND/OR ROOF WITH ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS AS NECESSARY. COORDINATE REQUIRED OPENINGS WITH ALL TRADES THAT REQUIRE
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- REQUIREMENTS ON BEAMS AND GIRDERS.
- 10. \* ON PLAN INDICATES DIMENSION TO BE VERIFIED BY THE CONTRACTOR WITH SUPPLIERS, MANUFACTURERS, AND ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS AS NECESSARY PRIOR TO CONSTRUCTION.

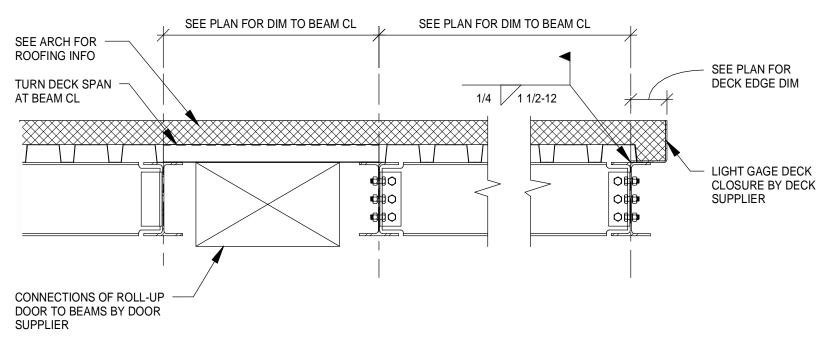


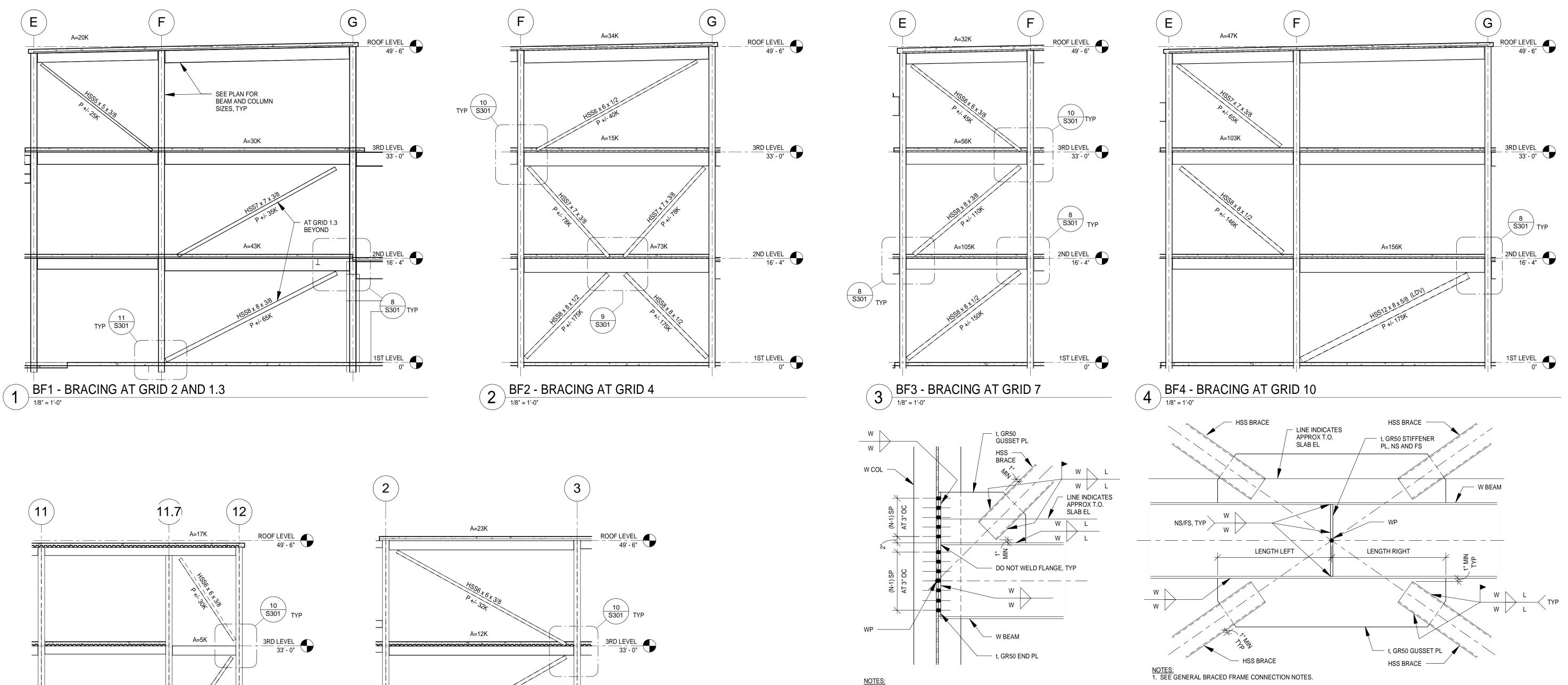


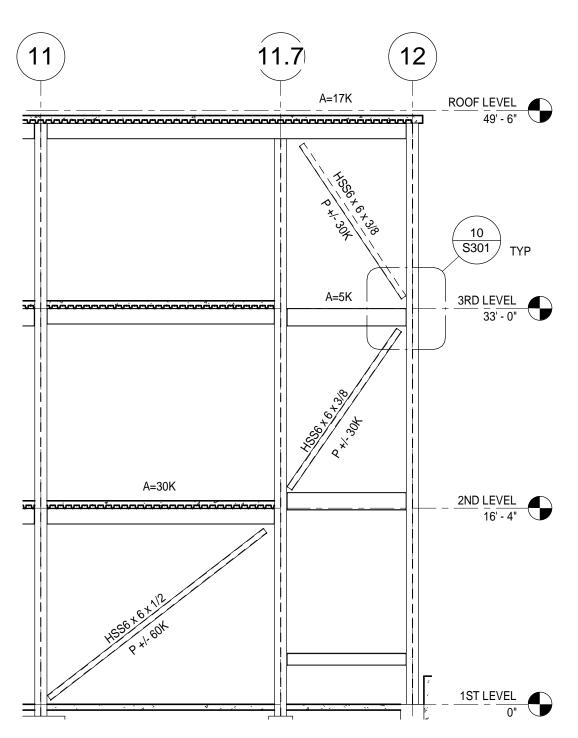


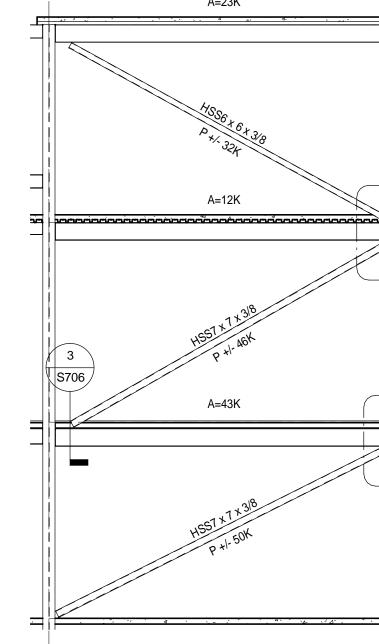






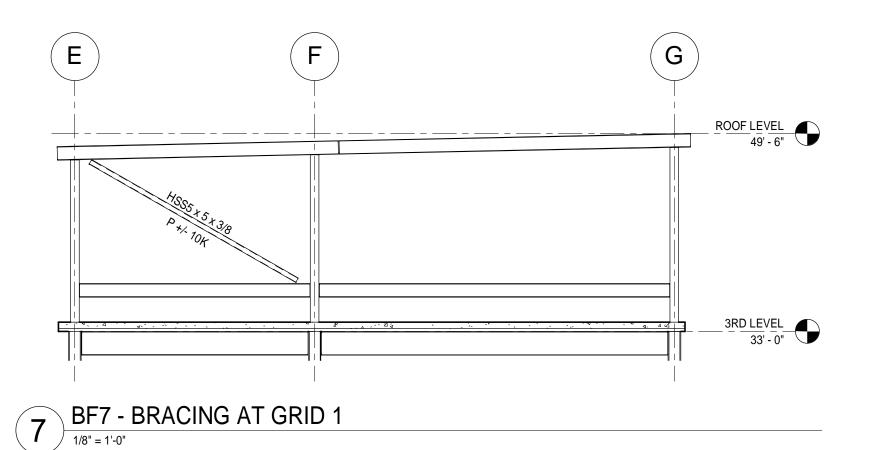




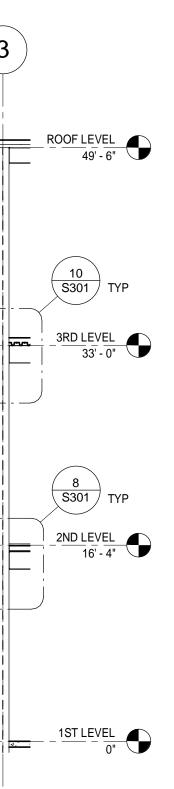


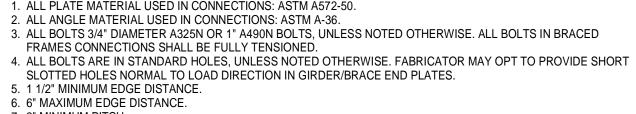
6 BF6 - BRACING AT GRID G

BF5 - BRACING AT GRID E 5



- GENERAL BRACED FRAME CONNECTION NOTES: 1. ALL PLATE MATERIAL USED IN CONNECTIONS: ASTM A572-50. 2. ALL ANGLE MATERIAL USED IN CONNECTIONS: ASTM A-36. 5. 1 1/2" MINIMUM EDGE DISTANCE. 6. 6" MAXIMUM EDGE DISTANCE. 7. 2" MINIMUM PITCH.
- 8. E70XX WELDING ELECTRODES.
- CONNECTION.
- INDICATED.





9. CONNECTIONS SHOWN ARE CONCEPTUAL DETAILS ONLY. WELD LENGTHS, NUMBER OF BOLTS AND PLATE SIZES WILL VARY AS REQUIRED FOR DESIGN FORCES INDICATED.
 10. PROVIDE A SLOTTED ERECTION AID FOR BRACE MEMBERS.

11. DO NOT WELD BRACE TO UPPER GUSSET UNTIL AFTER COMPOSITE CONCRETE FLOORS HAVE BEEN POURED. 12. "P" INDICATES MEMBER AXIAL FORCE. "A" INDICATES AXIAL FORCE TO BE TRANSFERRED THROUGH THE

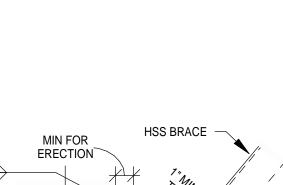
13. "t" INDICATES PLATE THICKNESS TO BE DETERMINED BY FABRICATOR BASED ON THE DESIGN FORCES

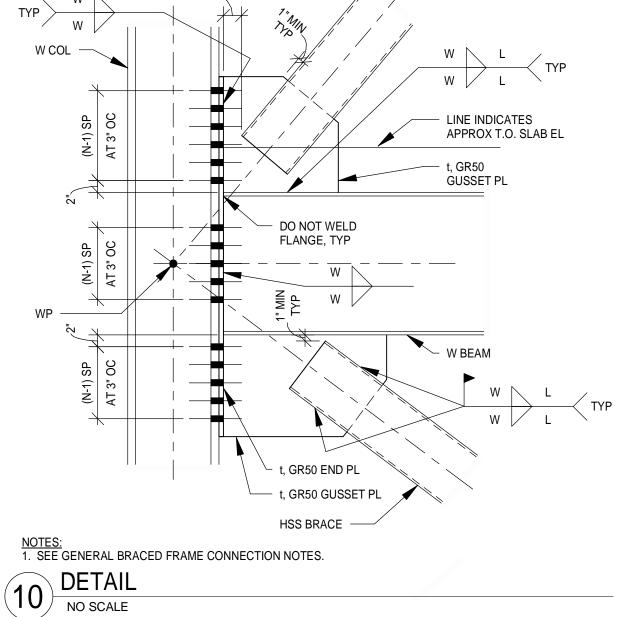
NOTES: 1. SEE GENERAL BRACED FRAME CONNECTION NOTES



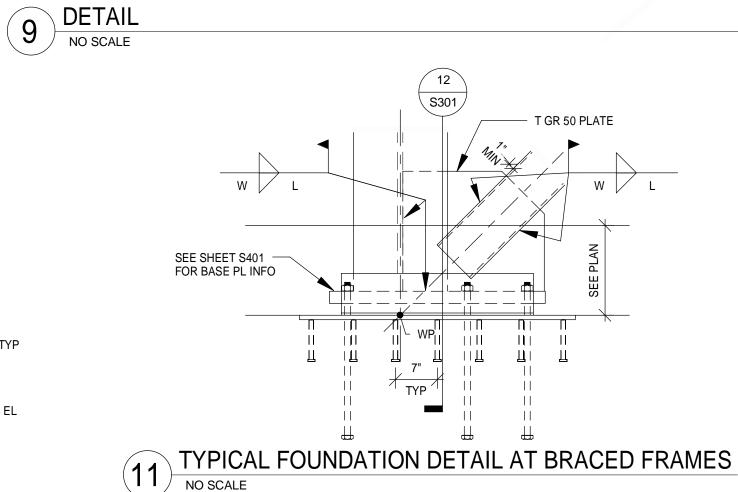


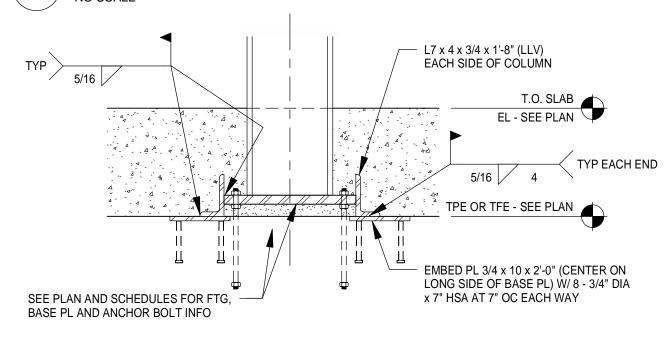












DULUTH INTERNATIONAL AIRPORT DULUTH, MN **NEW TERMINAL** DESIGN **CONSULTANTS** Interior Architects: SJA ARCHITECTS 11 E Superior Street Suite 340 Duluth MN 55802 TEL: (218) 724-8578 / FAX: (218) 724-8717 Structural Engineers: MBJ CONSULTING ENG. 501 Lake Avenue South, Suite 300, Duluth MN 55802 TEL: (218) 722-1056 / FAX: (218) 722-9306 M/E/P/FP Engineers: COSENTINI 1 East Wacker Drive, Suite 103, Chicago IL 60601 TEL: (312) 670-1800 / FAX: (312) 670-1801 Baggage Handling Systems Consultants: **BNP ASSOCIATES INC.** 01 East Ridge Office Park, Suite 103, Danbury CT 06810 TEL: (203) 792-3000 / FAX: (203) 792-4900 Landscape Consultants: APPOLD DESIGN 2432 East First Street, Duluth MN 55812 TEL: (218) 591-5079 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota. Print Name: Paul A. Johnson Signature: all Date: June 3, 2010 Reg. No.: 20379 REVISIONS NO. DESCRIPTION DATE Conformance Set 07-12-10 **Building Permit** 08-16-10 **DATE ISSUED:** 08-16-10 **REVIEWED BY:** PAJ / CWB DRAWN BY: SJL DESIGNED BY: CWB AEP PROJECT NUMBER 213-1882-091  $\bigcirc$  2009 REYNOLDS, SMITH AND HILLS INC SHEET TITLE BRACING **ELEVATIONS AND** DETAILS SHEET NUMBER **S301** BUILDING PERMIT

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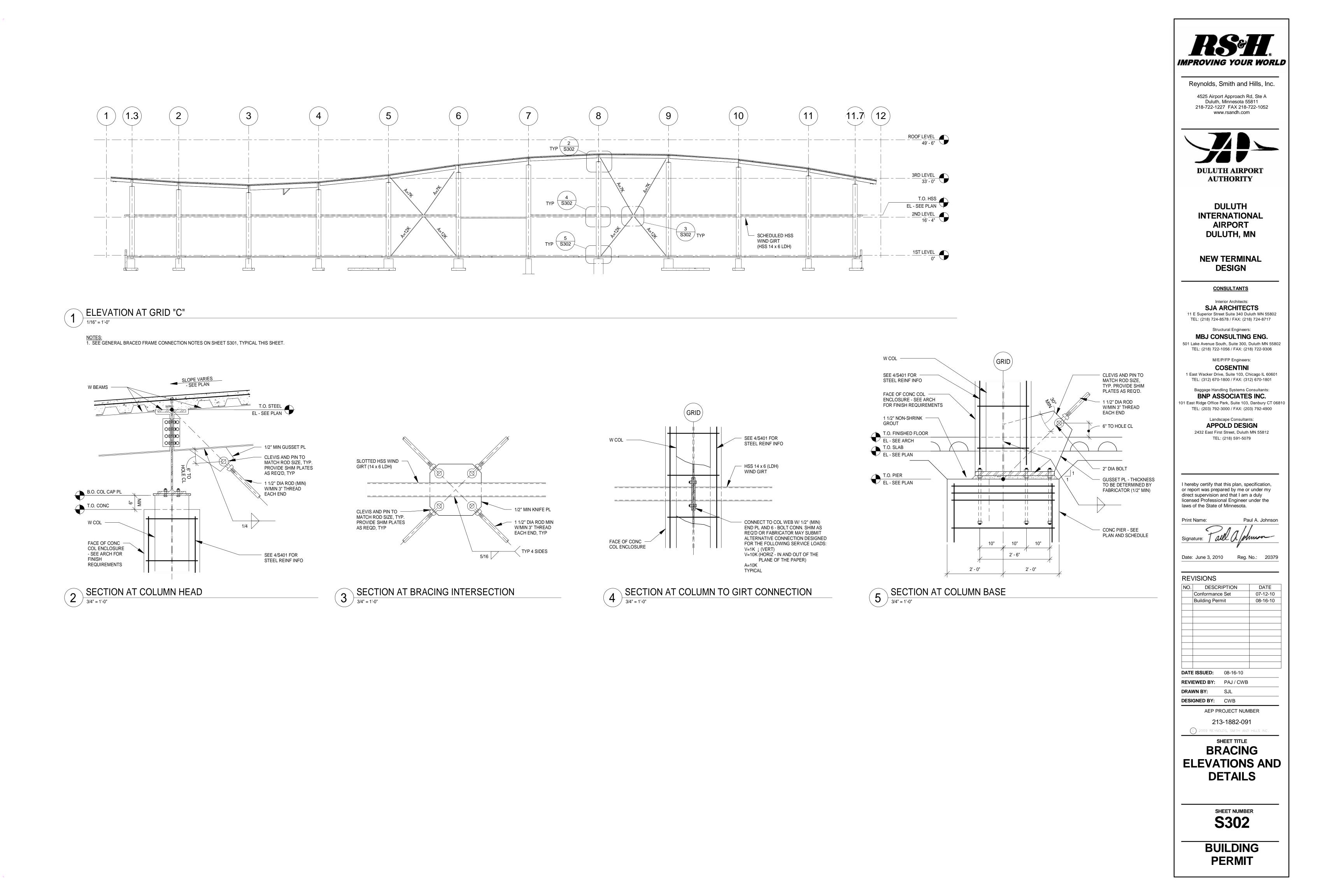
4525 Airport Approach Rd, Ste A Duluth, Minnesota 55811 218-722-1227 FAX 218-722-1052

www.rsandh.com

**DULUTH AIRPORT** 

**AUTHORITY** 

<u>-</u>



16' - 4"	HSS6 x 6 x 3/8	W18 x 76	W18 × 76	W18 × 76	W18 x 76	W18 x 76	W18 x 76	W
1ST LEVEL								
0"	BP-3	BP-4	BP-4	BP-4	BP-4	BP-6	BP-6	BP-4
Column Locations	B-3, B-4, B-10, B-11	C-1.3	C-2	C-3	C-4	C-5	C-6	C-7
			1					
ROOF LEVEL								ROOF LEVEL
49' - 6"								49' - 6"
3RD LEVEL					HSS10 x .375			3RD LEVEL
33' - 0"					BP-2			33' - 0"
	W12 × 96	W12 x 96	HSS10 x .500	HSS10 × .500	HSS10 x .500			
2ND LEVEL								2ND LEVEL
16' - 4"			BP-2	BP-2	BP-2	1	I	16' - 4"
1ST LEVEL								1ST LEVEL
0"	BP-1	BP-1						0"
Column Locations	G-3, G-4, G-5, G-6, G-7, G-8, G-9, G-10, G-11	G-12	H-1.3, H-11.7	H-2, H-3, H-4, H-9, H-10, H-11	H-5, H-6, H-7, H-8	X1-X4, X2-X4, X3-X4	X1-X5, X2-X5, X3-X5	

# NOTES: 1. FOR BASE PLATE AND ANCHOR BOLT INFORMATION, SEE COLUMN BASE PLATE SCHEDULE THIS SHEET. 2. AT HSS ROUND COLUMNS, FABRICATOR MAY OPT TO SUBMIT EQUIVALENT PIPE SECTION TO A/E FOR REVIEW IN LIEU OF HSS ROUND COLUMN SHOWN.

′**1**,

STEEL COLUMN SCHEDULE

/ NO SCALE

BP-4

C-10

C-9

BP-6

C-8

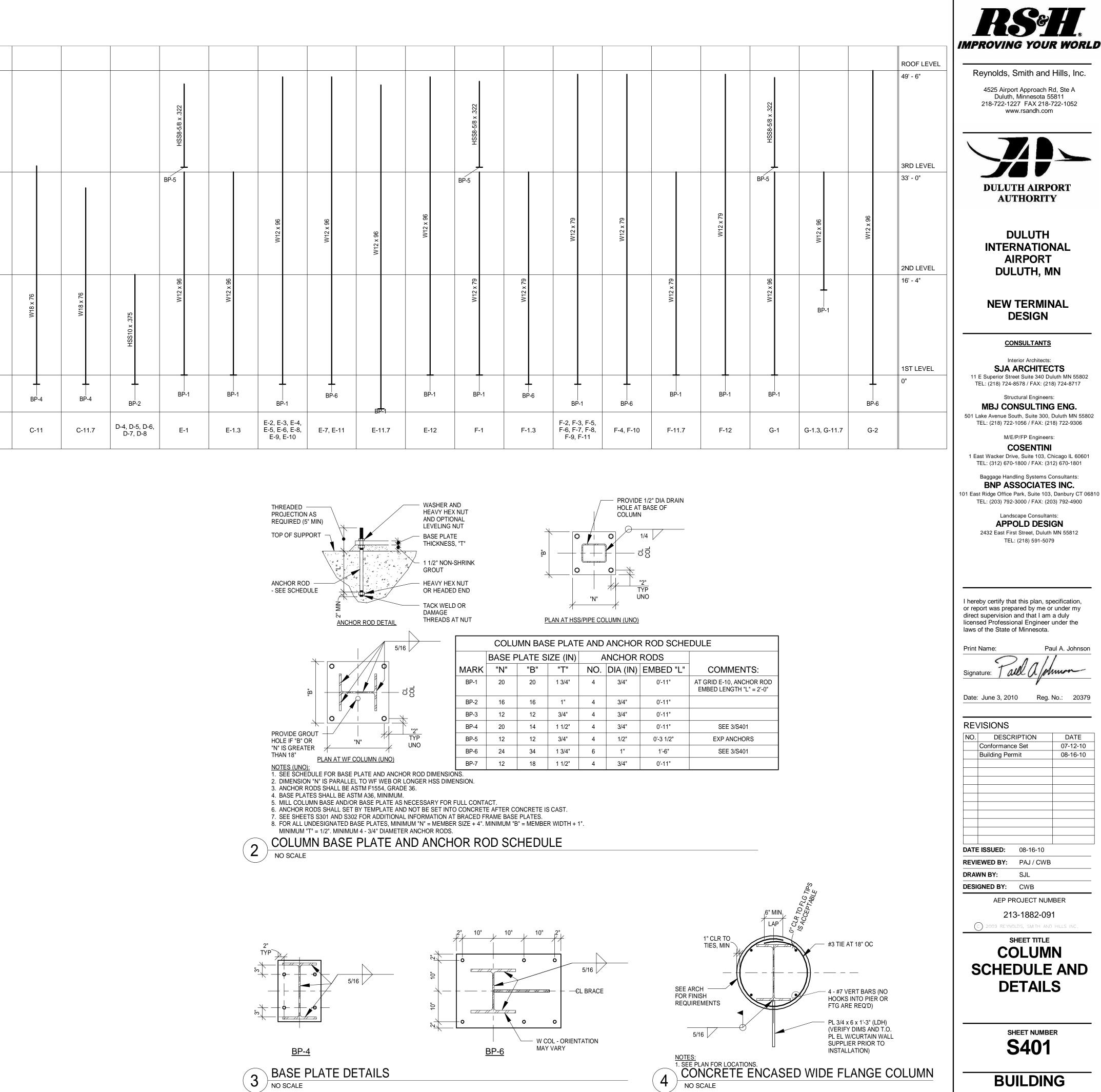
ROOF LEVEL

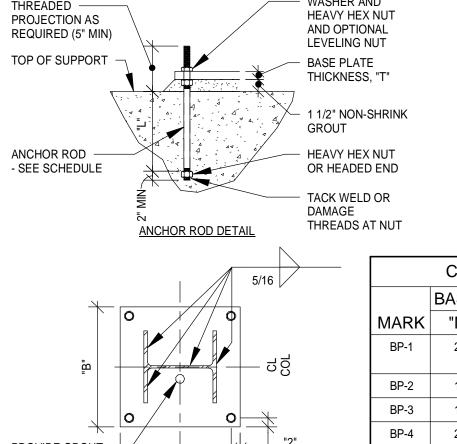
3RD LEVEL

2ND LEVEL

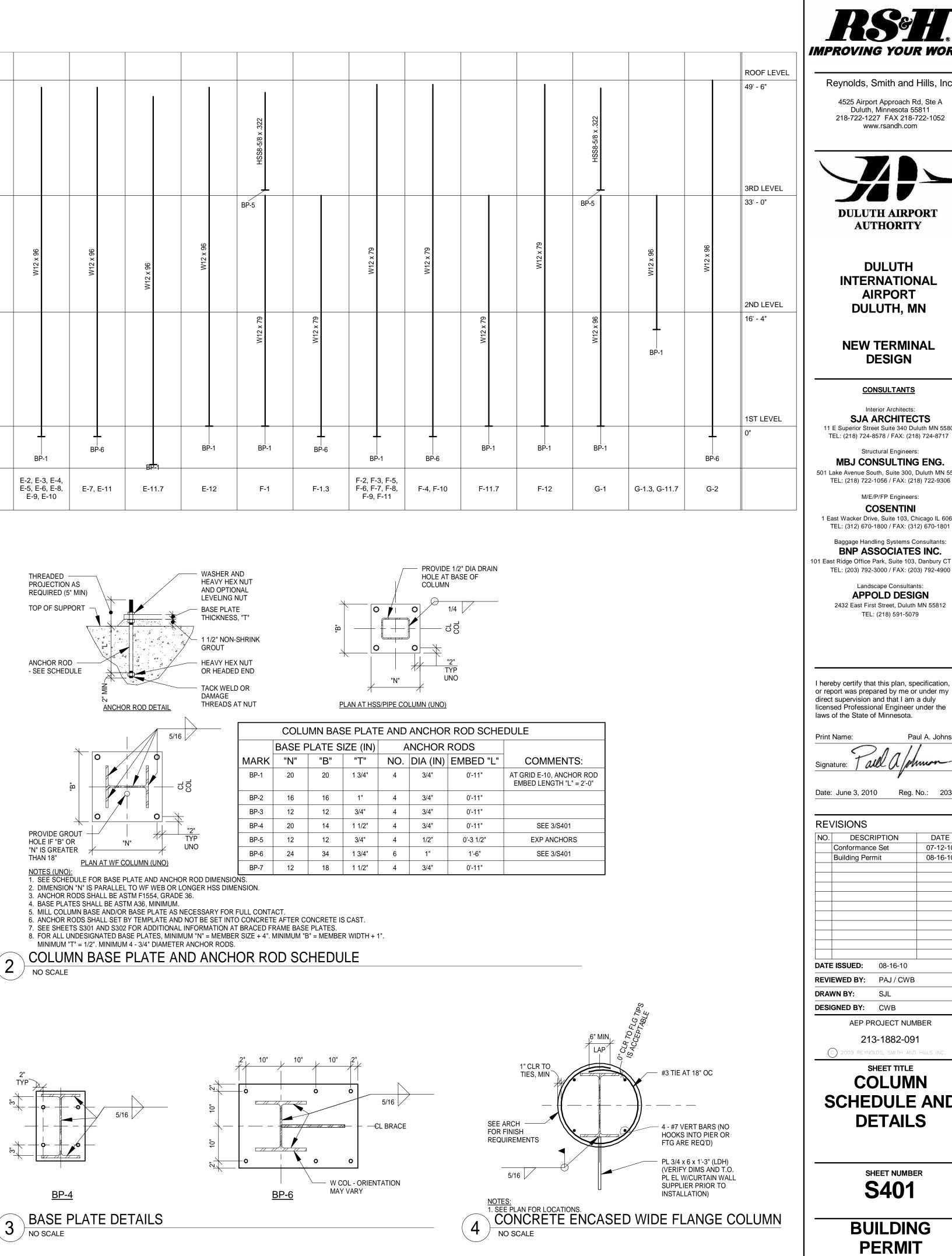
33' - 0"

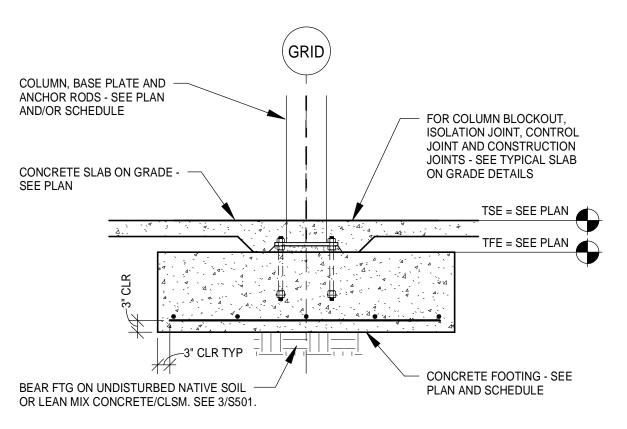
49' - 6"





UT		P	LAN AT HS	S/PIPE COI	
	COLU	MN BAS	SE PLAT	E AND	,
	BASE F	PLATE S	IZE (IN)	A	
<b>IARK</b>	"N"	"B"	"T"	NO.	Ī
BP-1	20	20	1 3/4"	4	
BP-2	16	16	1"	4	
BP-3	12	12	3/4"	4	
BP-4	20	14	1 1/2"	4	
BP-5	12	12	3/4"	4	
BP-6	24	34	1 3/4"	6	I



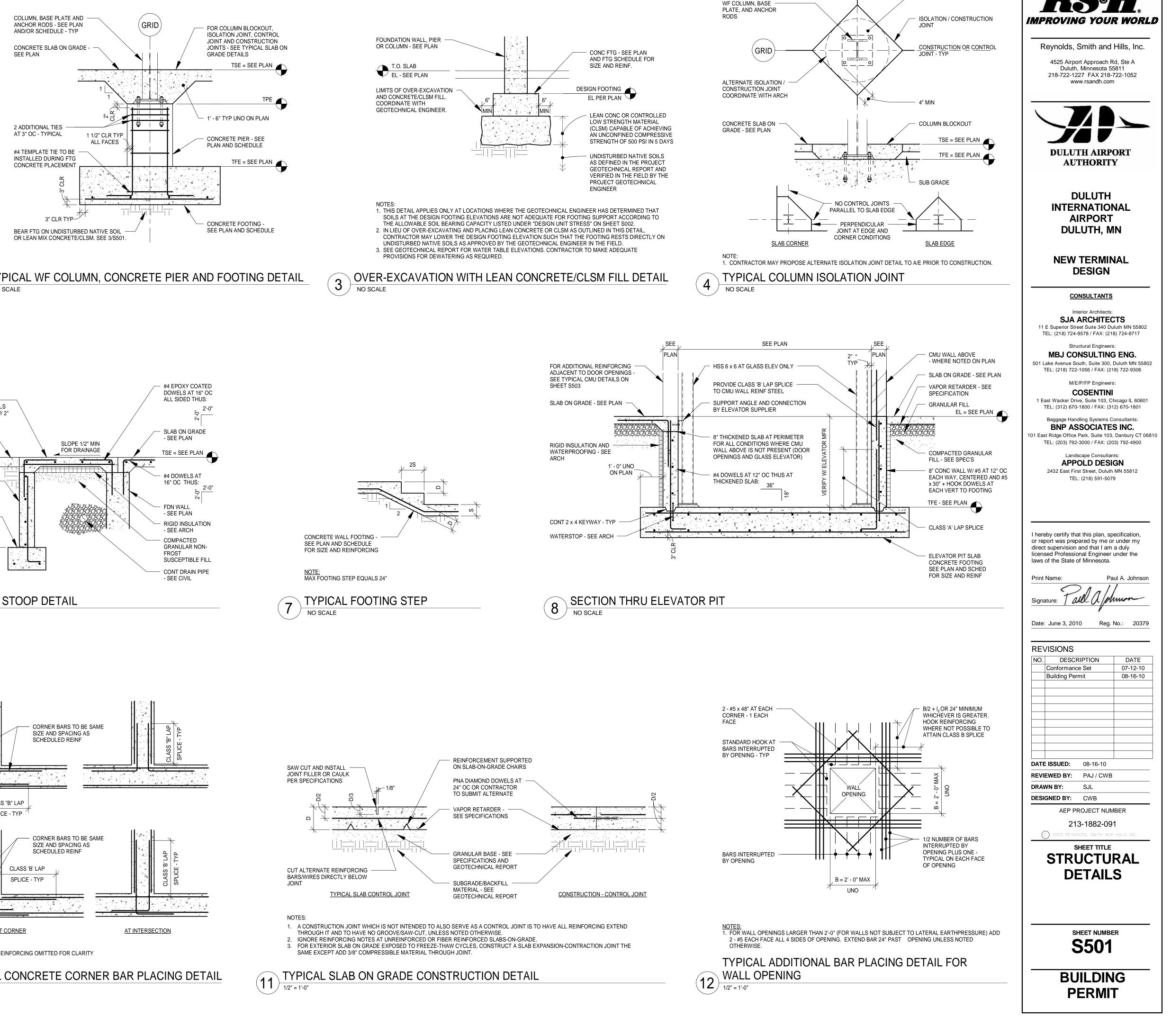


TYPICAL INTERIOR WF COLUMN FOOTING DETAIL NO SCALE

TENSION LAP SPLICE / CONCRETE / GR 60 UNCOATED REINFORCING							
STRUCTURAL ELEMENTS	FOOTINGS / SLAB-ON-GRADE / CONCRETE FILL ON METAL DECK						
CONCRETE	F'c = 4,000 PSI (NORMAL WEIGHT)						
BAR SIZE	CLASS "A" LAP CLASS "B" LAP						
	BASIC	TOP BAR	BASIC	TOP BAR			
#3	12"	14"	14"	18"			
#4	15"	19"	19"	25"			
#5	18"	23"	23"	30"			
#6	22"	28"	28"	36"			
#7	32"	42"	42"	55"			
#8	42"	55"	55"	71"			
#9	53"	69"	69"	90"			
#10	68"	88"	88"	114"			
#11	83"	108"	108"	140"			

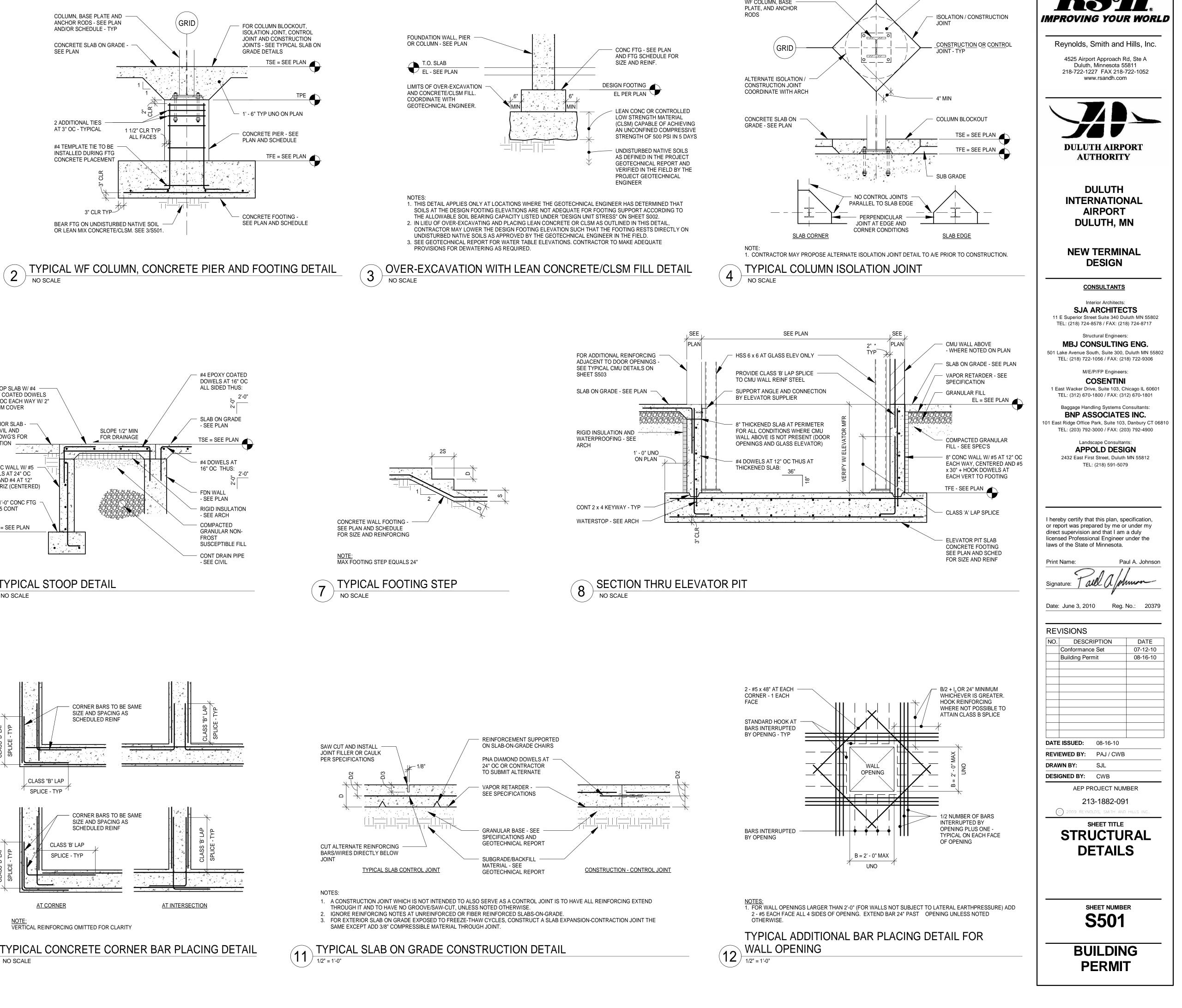
NOTES: 1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE PLACED BELOW THEM. 2. USE CLASS "B" LAP LENGTHS - TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS.

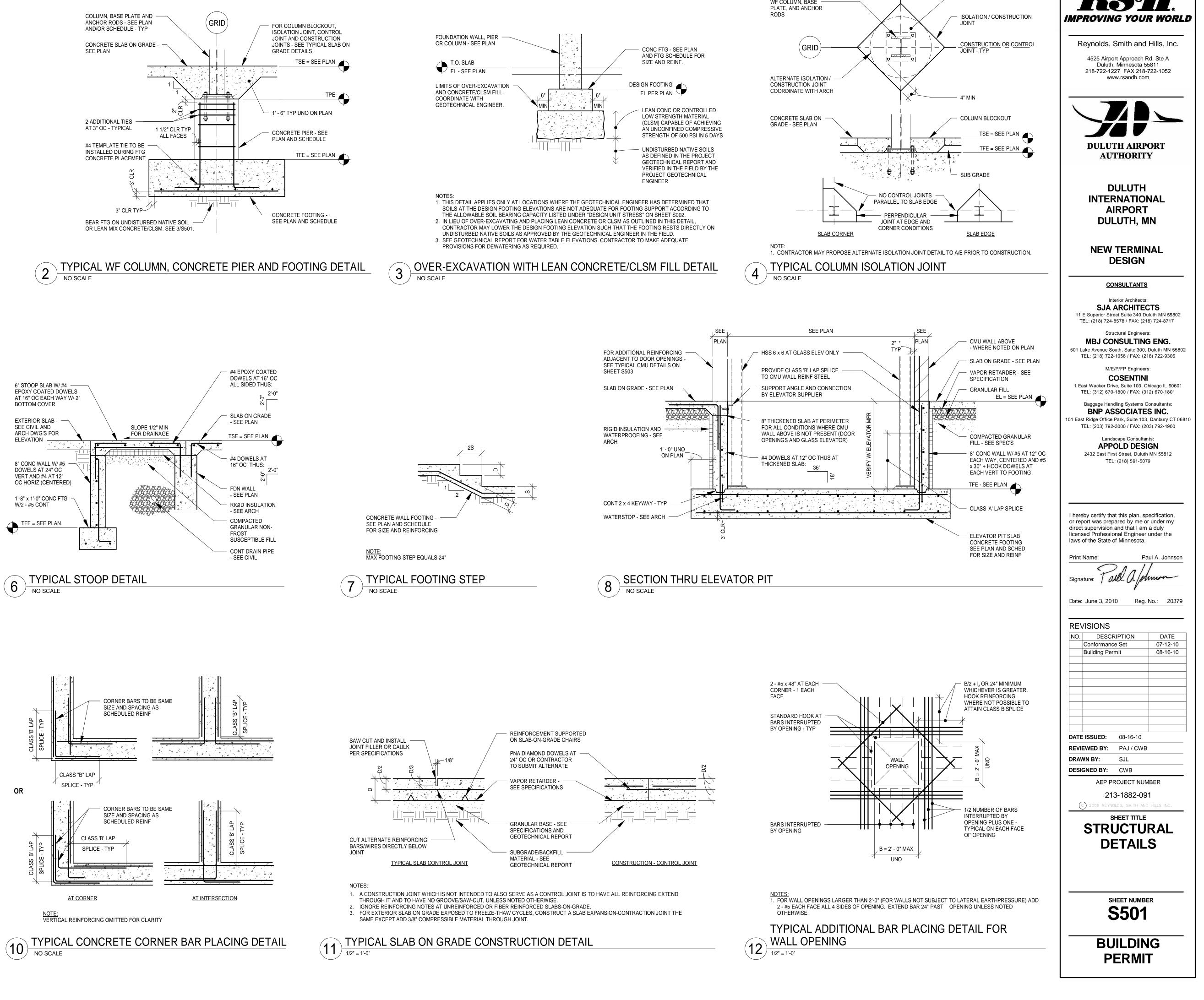




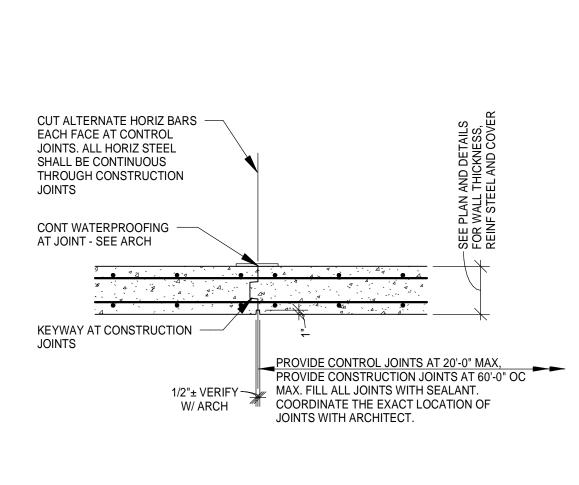
GRID

- TYPICAL SLAB BLOCKOUT







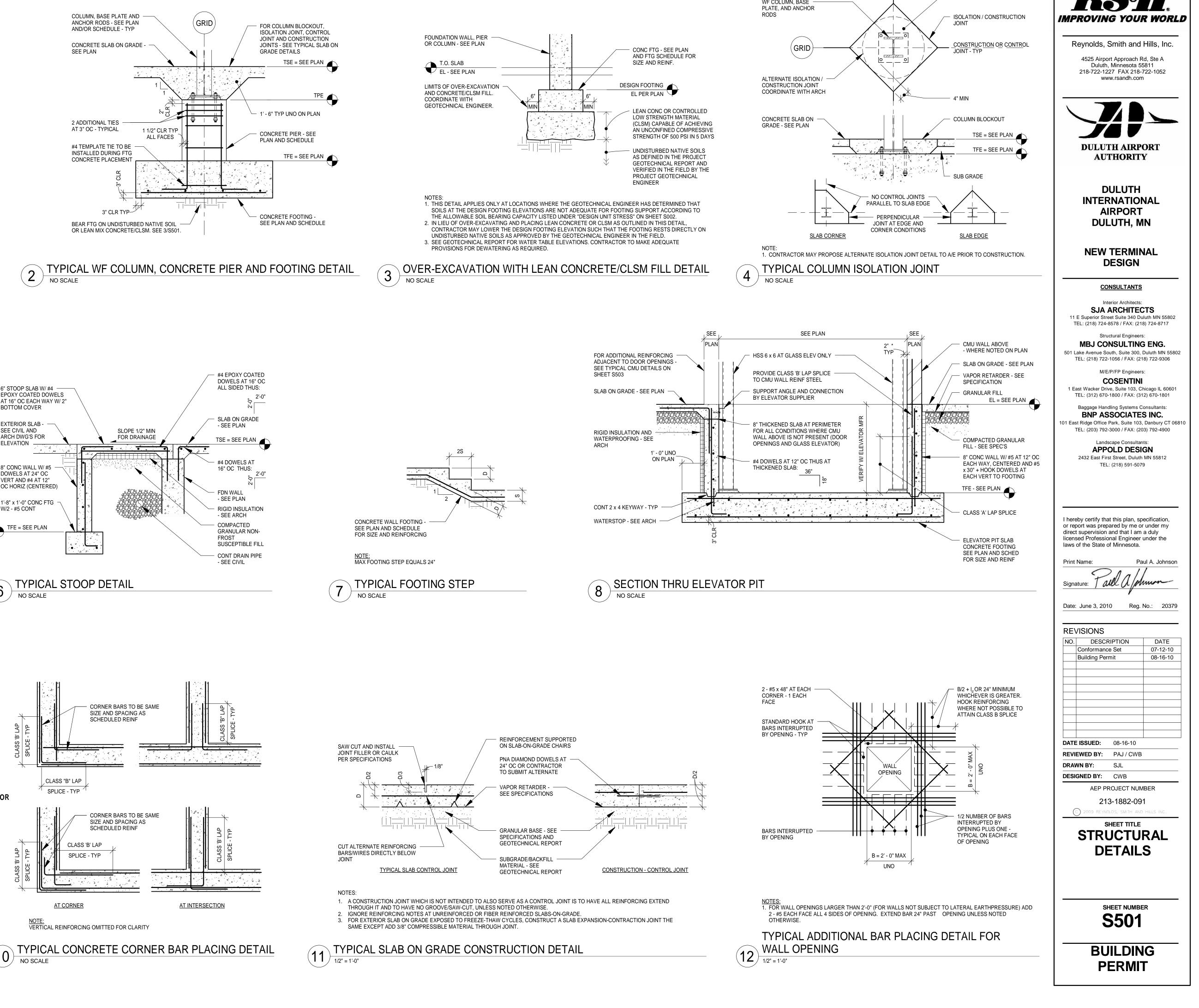


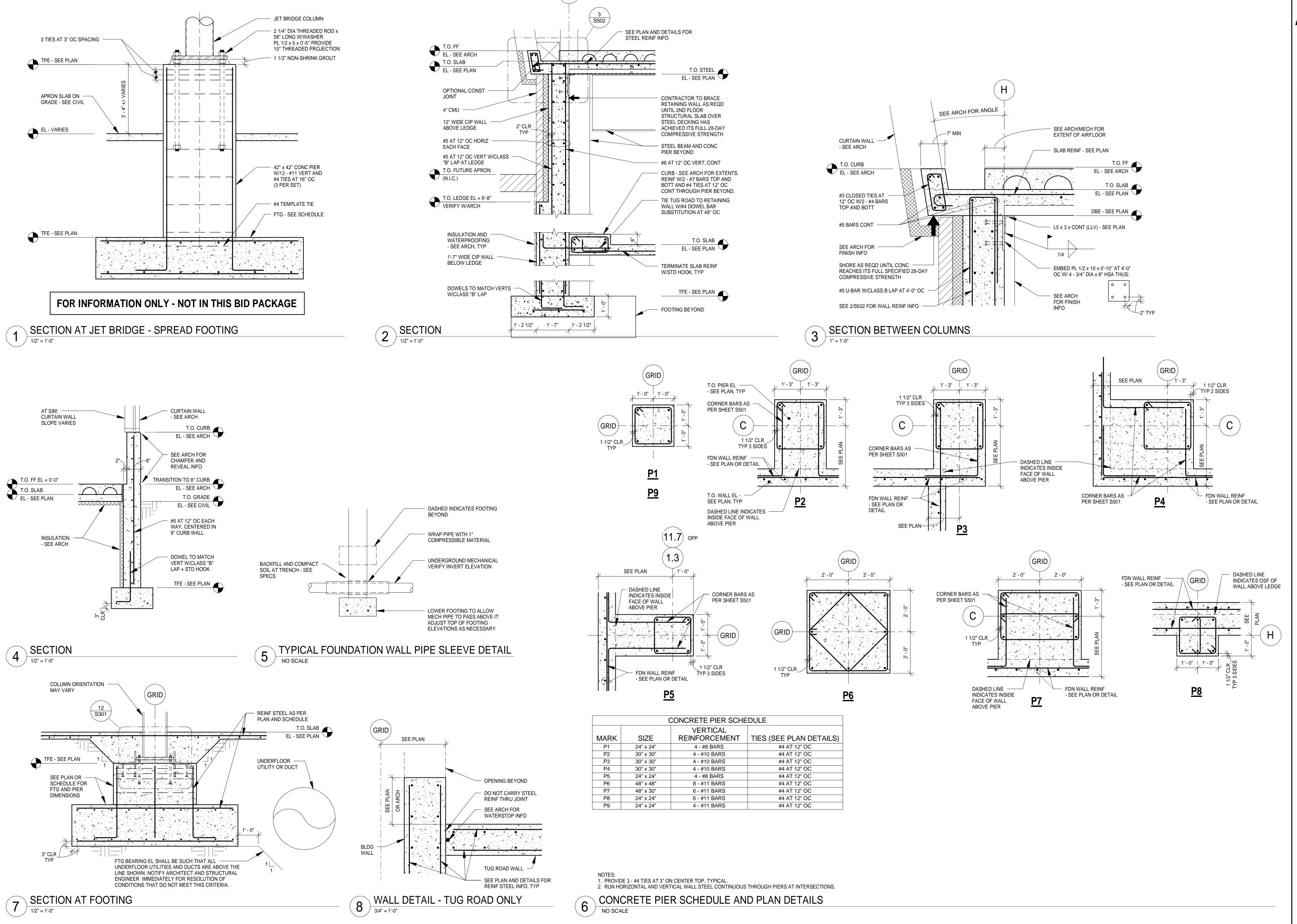
**TYPICAL CONSTRUCTION/CONTROL** 

JOINTS FOR CONCRETE WALLS

(9)

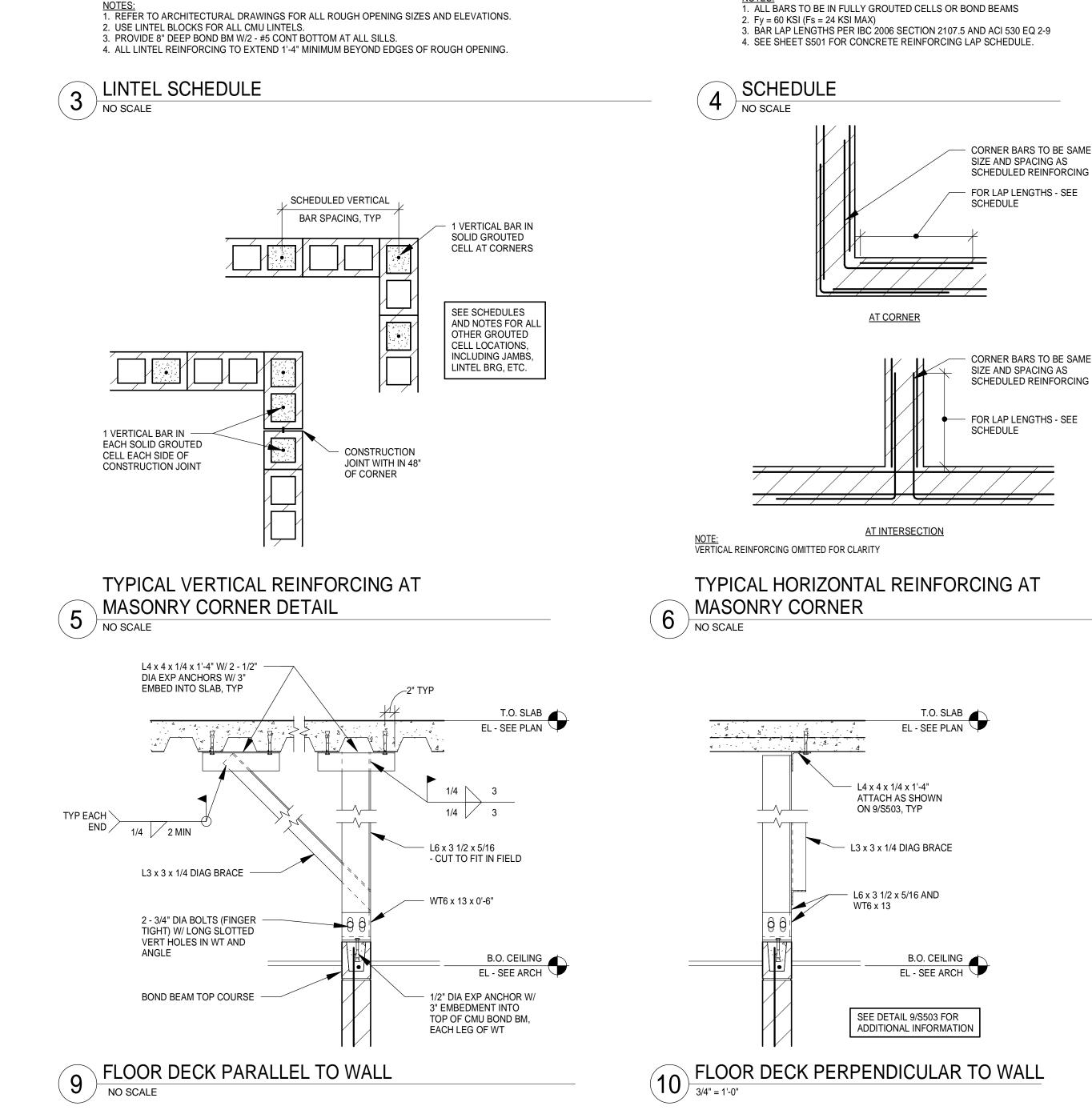
/ 1/2" = 1'-0"





 $(\mathbf{H})$ 

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	-
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DULUTH	
INTERNATIONAL AIRPORT	
DULUTH, MN	
NEW TERMINAL DESIGN	
CONSULTANTS	-
SJA ARCHITECTS 11 E Superior Street Suite 340 Duluth MN 55802 TEL: (218) 724-8578 / FAX: (218) 724-8717	2
Structural Engineers: <b>MBJ CONSULTING ENG.</b> 501 Lake Avenue South, Suite 300, Duluth MN 558 TEL: (218) 722-1056 / FAX: (218) 722-9306	802
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1 East Wacker Drive, Suite 103, Chicago IL 6060 TEL: (312) 670-1800 / FAX: (312) 670-1801 Baggage Handling Systems Consultants:	1
BNP ASSOCIATES INC. D1 East Ridge Office Park, Suite 103, Danbury CT 0 TEL: (203) 792-3000 / FAX: (203) 792-4900	6810
Landscape Consultants: <b>APPOLD DESIGN</b> 2432 East First Street, Duluth MN 55812 TEL: (218) 591-5079	
I hereby certify that this plan, specification,	-
or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.	
Print Name: Paul A. Johnso	<u>n</u>
Signature: Tall a phonon	_
Date: June 3, 2010 Reg. No.: 2037	9
NO.       DESCRIPTION       DATE         Conformance Set       07-12-10	
Building Permit 08-16-10	_
	_
DATE ISSUED: 08-16-10 REVIEWED BY: PAJ / CWB	_
DRAWN BY: SJL DESIGNED BY: CWB	_
AEP PROJECT NUMBER 213-1882-091 (C) 2009 REYNOLDS, SMITH AND HILLS INC.	
C 2009 REYNOLDS, SMITH AND HILLS INC. SHEET TITLE STRUCTURAL	-
DETAILS	
SHEET NUMBER	-
S502	_
BUILDING PERMIT	



16"

### CMU LINTEL SCHEDULE **BEARING LENGTH** EACH END WALL TYPE ROUGH OPENING REQUIRED LINTEL 6" CMU UP TO 3'-4" 8" DEEP BOND BM W/1 - #5 8" CONT BOTT 16" DEEP BOND BM W/1 - #5 6" CMU 3'-4" TO 8'-0" 16" CONT TOP AND BOTT 8" CMU UP TO 5'-4" 8" DEEP BOND BM W/2 - #5 CONT BOTT 8" 16" DEEP BOND BM W/2 - #5 CONT TOP 8" CMU 5'-4" TO 10'-0" AND BOTT AND #4 SINGLE LEG HOOKED

STIRRUP AT 8" OC

<sup>/</sup> NO SCALE

UNLESS NOTED OTHERWISE:

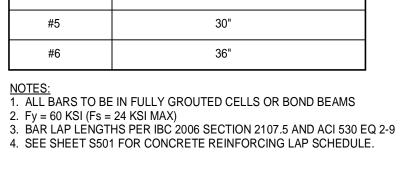
1. PROVIDE CLASS "A" SPLICE TO DOWELS TYPICAL.

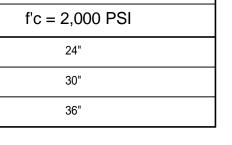
3. SEE LINTEL SCHEDULE THIS SHEET FOR LINTELS OVER MASONRY WALL OPENINGS.

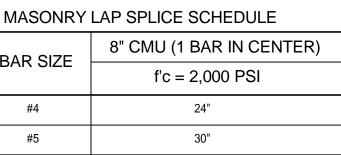
WALL REINFORCING SCHEDULE

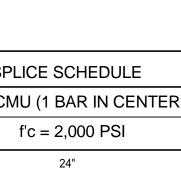
### CMU WALL REINFORCING SCHEDULE CENTERED IN WALL FOOTING WALL DOWELS HORIZONTAL VERTICAL TYPE COMMENTS MARK #5 AT 24" OC AS NOTED ON DETAILS #5 AT 24" OC W1 8" CMU

2. FOR ALL CMU WALLS NOT INDICATED ON STRUCTURAL PLANS, SEE "NON-LOAD BEARING MASONRY PARTITION WALL REINFORCING SCHEDULE"









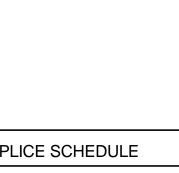
BAR SIZE

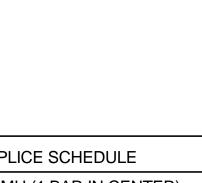
#4

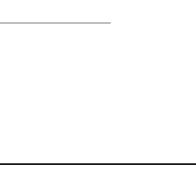
#5

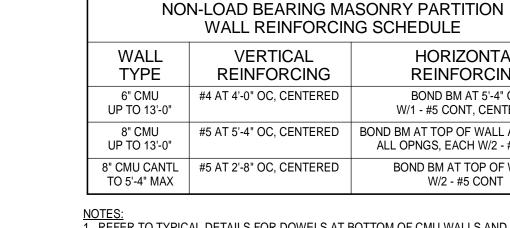
#6

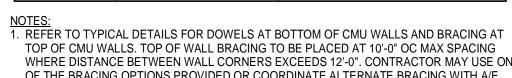








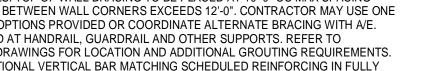


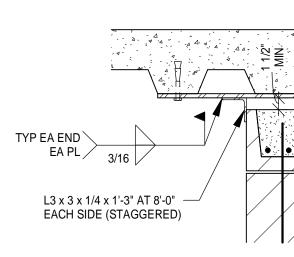


WHERE DISTANCE BETWEEN WALL CORNERS EXCEEDS 12'-0". CONTRACTOR MAY USE ONE OF THE BRACING OPTIONS PROVIDED OR COORDINATE ALTERNATE BRACING WITH A/E.

2. GROUT CMU SOLID AT HANDRAIL, GUARDRAIL AND OTHER SUPPORTS, REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND ADDITIONAL GROUTING REQUIREMENTS.

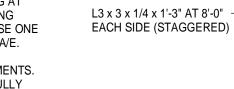
3. PROVIDE (1) ADDITIONAL VERTICAL BAR MATCHING SCHEDULED REINFORCING IN FULLY

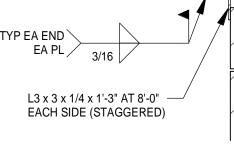


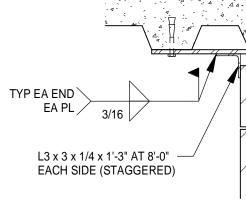


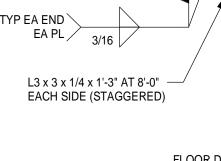
FLOOR DECK PARALLEL TO WALL

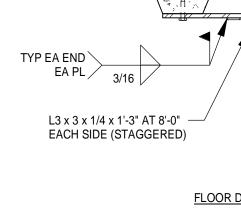
4.7.

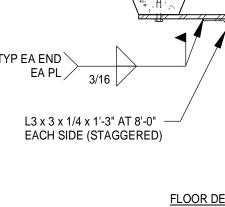


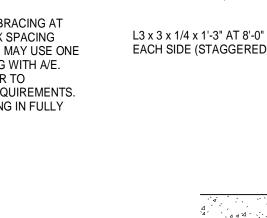












SEE PLAN PROVIDE 9 GA GALVANIZED DUR-O-WALL JOINT REINF AT 16" OC, TYP (8" OC IN PARAPET WALLS)

SPACING

COREFILL

\_\_\_\_\_

**ROOF DECK PARALLEL TO WALL** 

TYPICAL CMU WALL DETAIL

EQ | EQ

L4 x 4 x 1/4 x 2'-0", TYP -

< `

SEE DETAIL 9/S503 FOR

(11) **KUUF** 3/4" = 1'-0"

ADDITIONAL INFORMATION

<sup>/</sup> NO SCALE

7

WALL REINFORCING AND

SEE GENERAL STRUCTURAL NOTES FOR CONCRETE

11

SEE PLAN AND SCHEDULE FOR

STRUCTURAL NOTES

8

**TYP EACH** 

FLUTE

B.O. CEILING

EL - SEE ARCH

DBE - SEE PLAN

- L6 x 3 1/2 x 5/16

WT6 x 13 x 0'-6"

NO SCALE

TYPICAL WALL REINFORCING - SEE WALL REINFORCING SCHEDULE AND GENERAL

NON-LOAD BEARING WALL REINFORCING SCHEDULE AND TYPICAL DETAILS NO SCALE

- L6 x 4 x 1/4 x 2'-0" LLV AT

8'-0" OC EACH SIDE



EACH FLUTE (STAGGERED) LOCATE UPPER BOND BM WITHIN 2'-0" OF TOP OF WALL. EXTEND VERT REINF INTO TOP COURSE.

GROUTED CELL AT CORNERS AND WITHIN 8" OF ALL OPENINGS. ROOF DECK

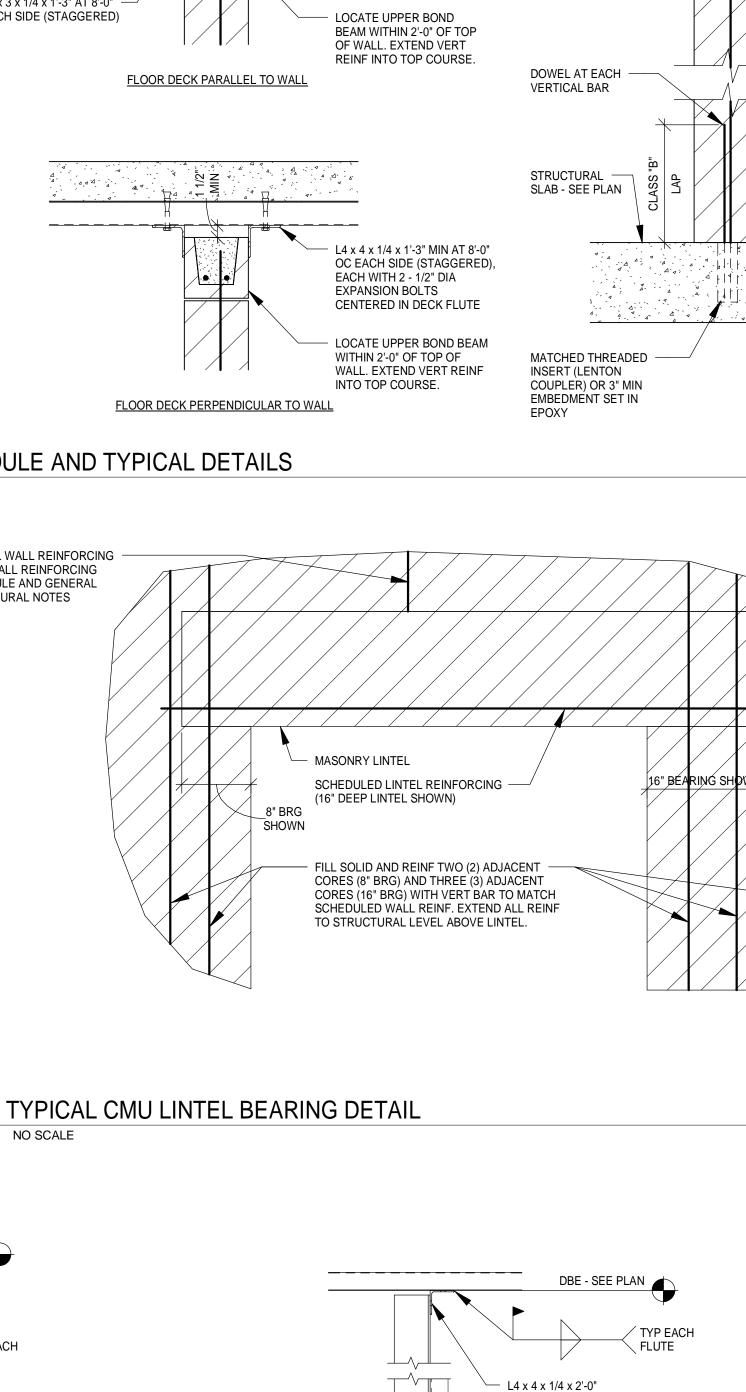
4. REFER TO 3/S503 FOR MASONRY LINTEL SCHEDULE.

2

W/2 - #5 CONT

REINFORCING BOND BM AT 5'-4" OC W/1 - #5 CONT, CENTERED #5 AT 5'-4" OC, CENTERED BOND BM AT TOP OF WALL AND ABOVE ALL OPNGS, EACH W/2 - #5 CONT BOND BM AT TOP OF WALL

HORIZONTAL



ATTACH AS SHOWN

ON 11/S503, TYP

DIAGONAL BRACE

-----

(12) ROOF 3/4" = 1'-0"

B.O. CEILING EL - SEE ARCH

SEE DETAIL 9/S503 FOR

ROOF DECK PERPENDICULAR TO WALL

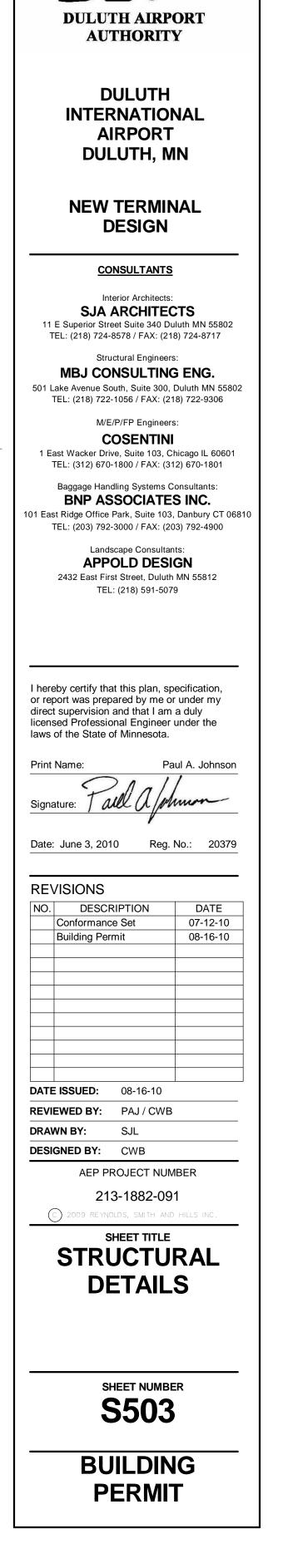
ADDITIONAL INFORMATION

PL1/4 x 16 x 2'-0" MIN AT 48"

WITH 4 - 1/2" DIA EXPANSION

BOLTS CENTERED IN DECK

FLUTE



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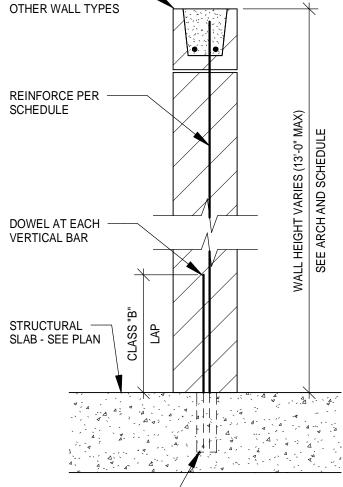
Reynolds, Smith and Hills, Inc.

4525 Airport Approach Rd, Ste A

Duluth, Minnesota 55811

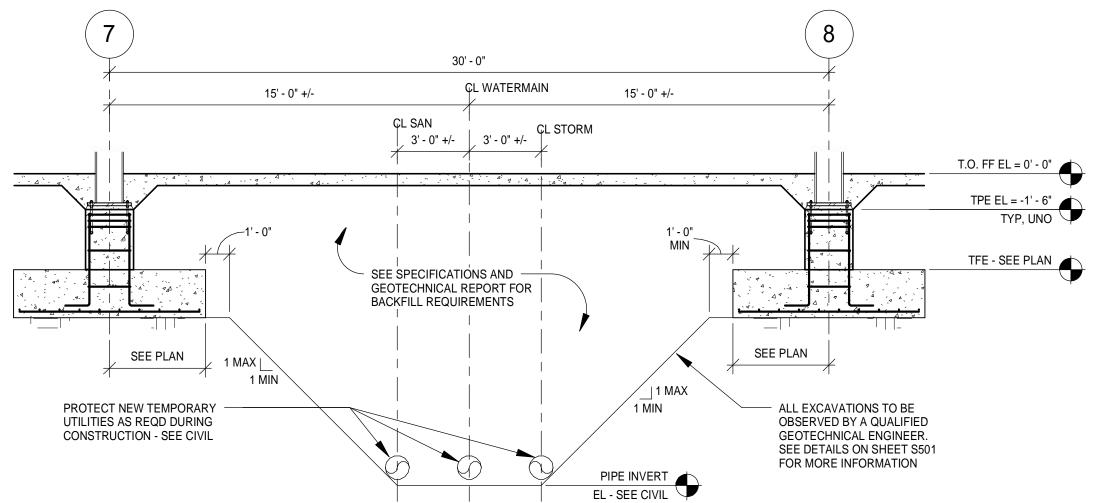
218-722-1227 FAX 218-722-1052 www.rsandh.com



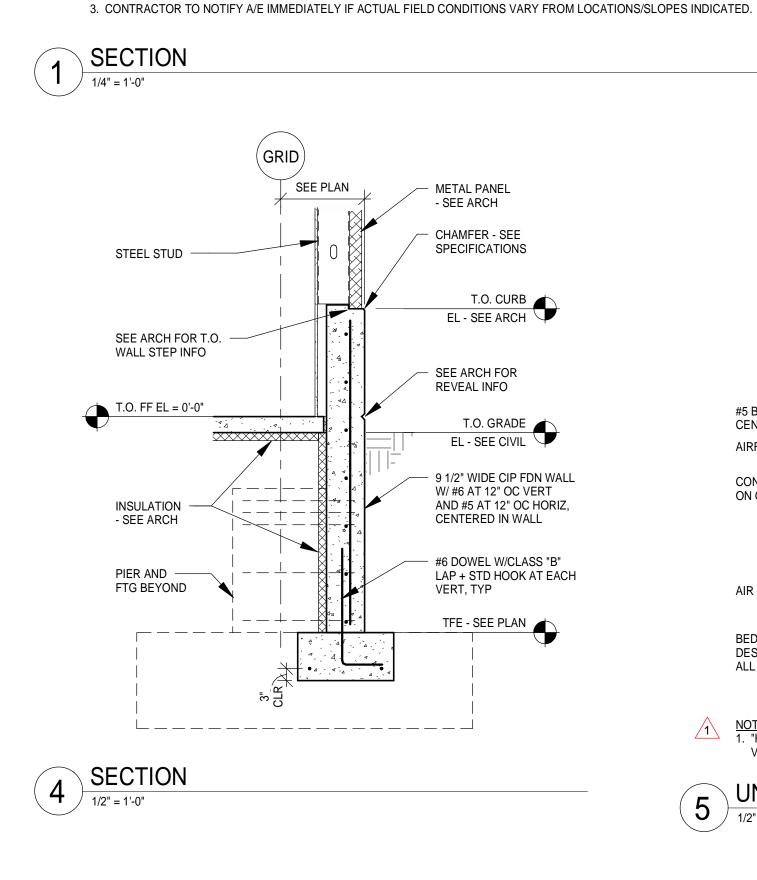


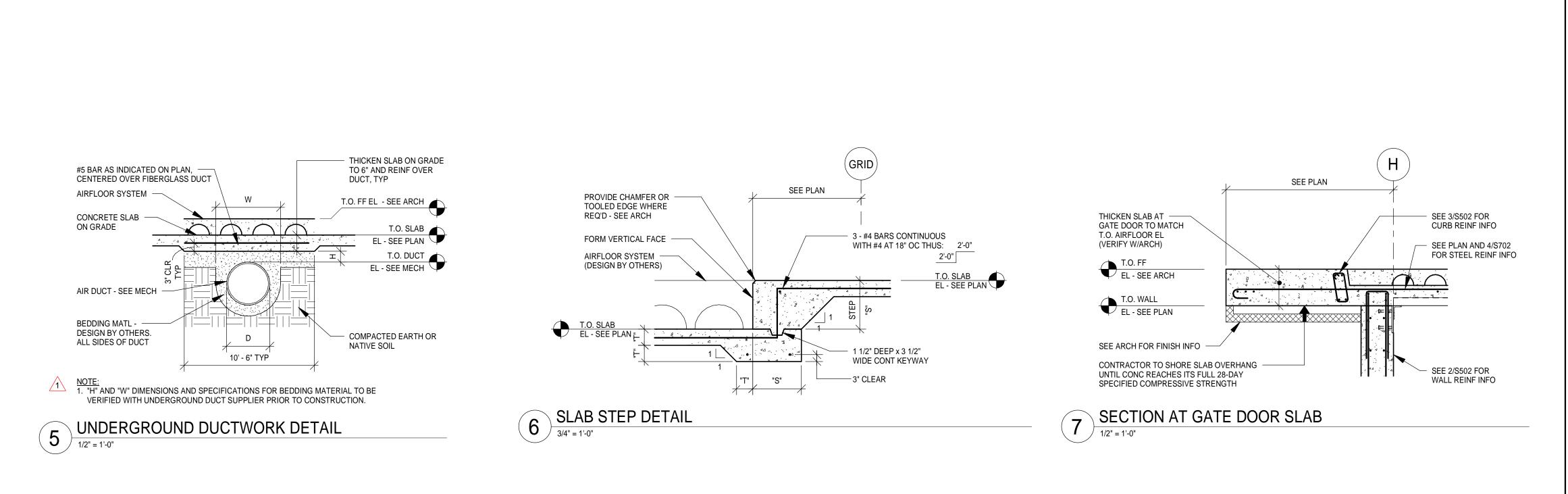
SEE ARCH DETAILS -

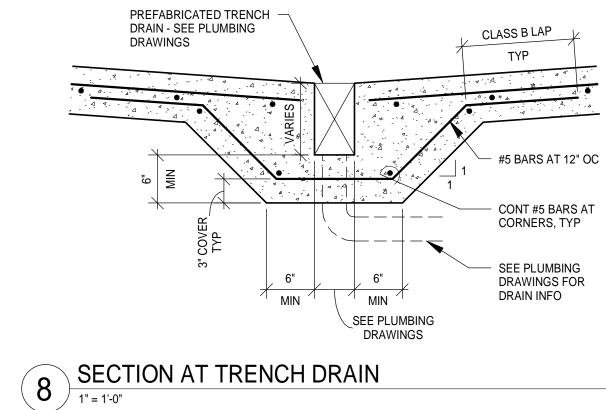
FOR TRANSITION TO

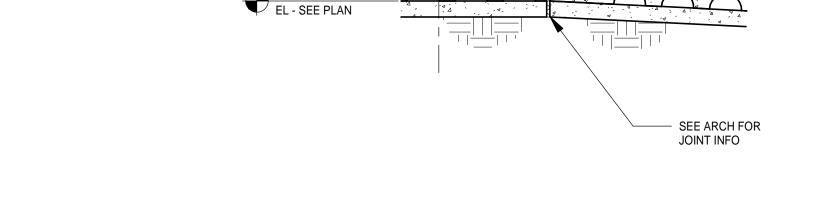


NOTES: 1. SEE GEOTECHNICAL REPORT FOR WATER TABLE ELEVATIONS. CONTRACTOR TO MAKE ADEQUATE PROVISIONS FOR DEWATERING AS REQUIRED. 2. PIPE INVERT LOCATION SHOWN SCHEMATICALLY REPRESENT LOCATIONS AT GRID E.



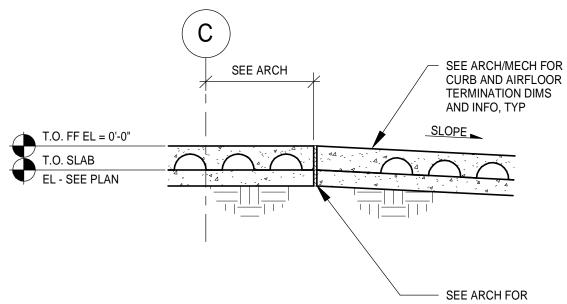


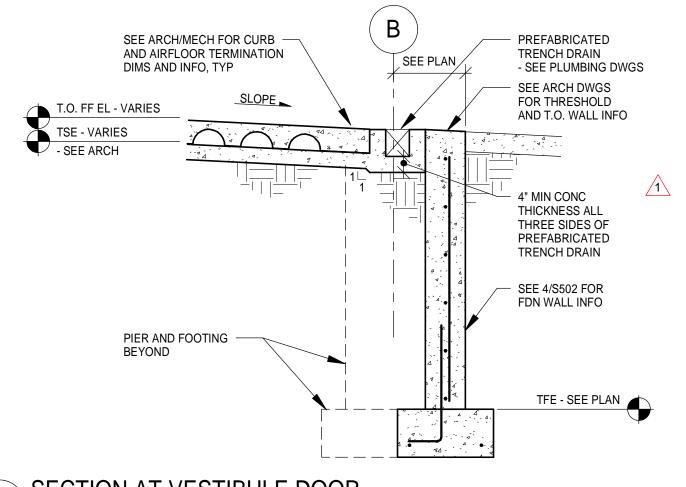




2 SECTION 1/2" = 1'-0"

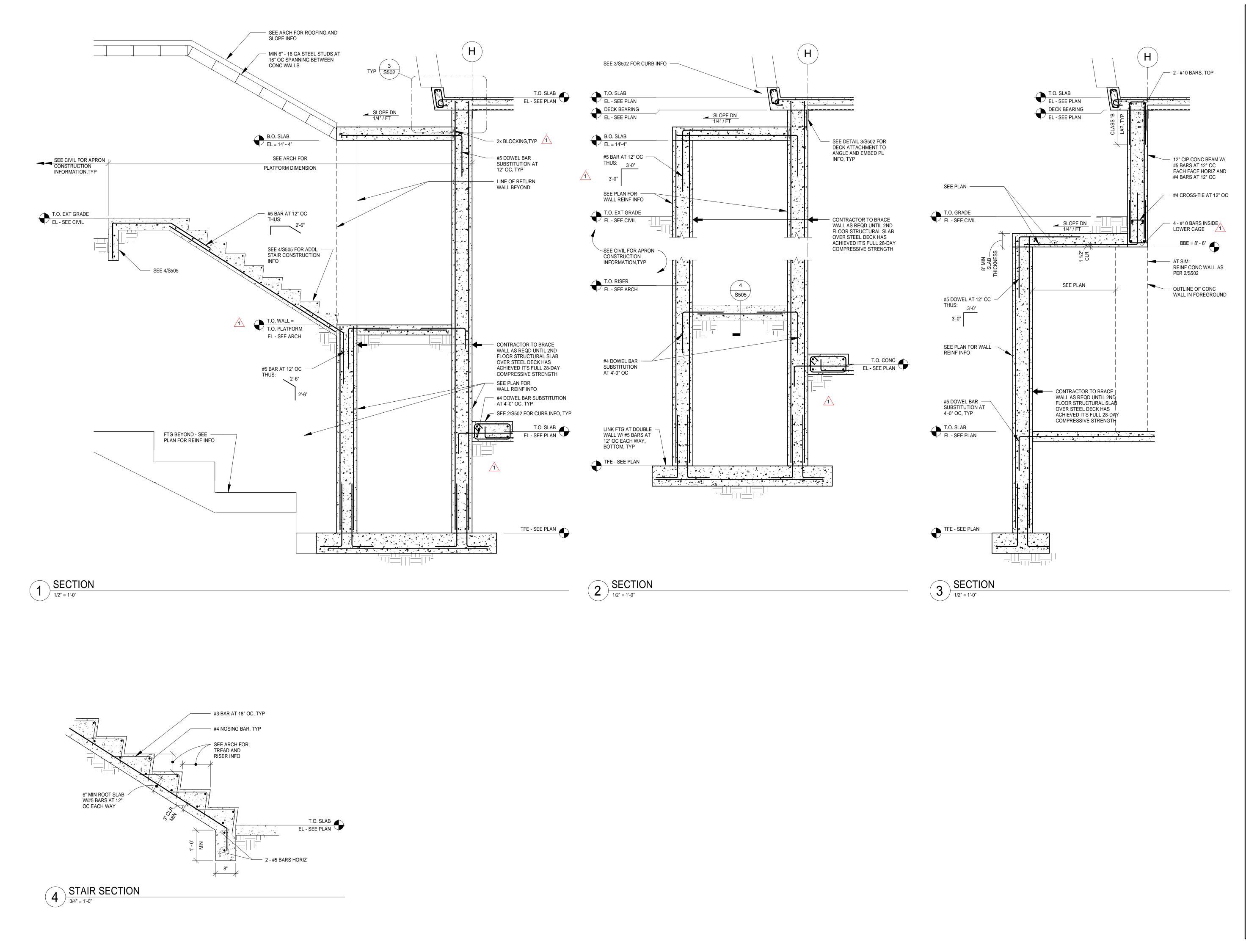




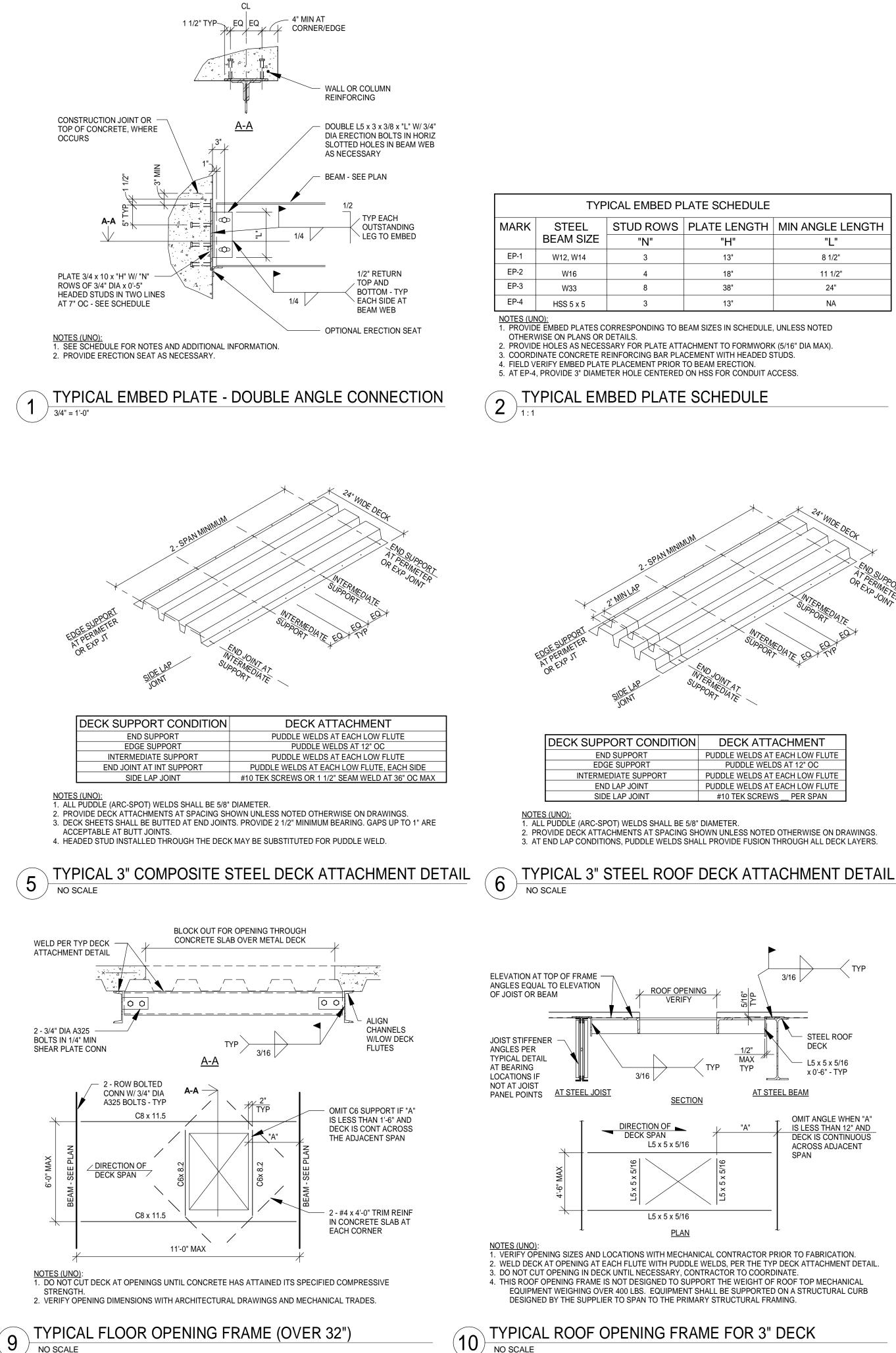




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Jiii	
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DULUTH INTERNATION AIRPORT DULUTH, M	
NEW TERMIN DESIGN	IAL
CONSULTANTS	
Interior Architects: <b>SJA ARCHITEC</b> 11 E Superior Street Suite 340 Du	-
TEL: (218) 724-8578 / FAX: (21) Structural Engineers	8) 724-8717 s:
MBJ CONSULTING 501 Lake Avenue South, Suite 300, TEL: (218) 722-1056 / FAX: (21	Duluth MN 55802
M/E/P/FP Engineers <b>COSENTINI</b> 1 East Wacker Drive, Suite 103, C	
TEL: (312) 670-1800 / FAX: (31 Baggage Handling Systems C	2) 670-1801 onsultants:
BNP ASSOCIATE 01 East Ridge Office Park, Suite 103, TEL: (203) 792-3000 / FAX: (20	Danbury CT 06810
Landscape Consultan	
2432 East First Street, Duluth TEL: (218) 591-507	
I hereby certify that this plan, sp or report was prepared by me or direct supervision and that I am licensed Professional Engineer	r under my a duly
laws of the State of Minnesota.	
	ul A. Johnson
$\bigcirc$	/
Print Name: Pa Signature: Paul A/M	mon
$\bigcirc$	No.: 20379
Signature: Pull a/m Date: June 3, 2010 Reg. REVISIONS	
Signature: Paul A/M Date: June 3, 2010 Reg.	DATE 06-10-10
Signature: Paul a /// Date: June 3, 2010 Reg. REVISIONS NO. DESCRIPTION 1 Addendum 1	DATE
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CONSULTANTS	-
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TEL: (218) 722-1056 / FAX: (218) 722-9306 M/E/P/FP Engineers: <b>COSENTINI</b>	
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TEL: (218) 591-5079	
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.	-
Signature: Fail a phonon	
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DRAWN BY: SJL	-
AEP PROJECT NUMBER	-
<b>213-1882-091</b> C 2009 REYNOLDS, SMITH AND HILLS INC.	
SHEET TITLE STRUCTURAL DETAILS	-
SHEET NUMBER	-
	-
BUILDING PERMIT	



NO SCALE

NO SCALE

# RANSVERSE BARS 2 - #4 x 4'-0" – TRANSVERSE EACH SIDE 24" MAX 2 - #5 IN LOW FLUTES -ADJACENT TO OPENING CONT TO SUPPORTS PRIMARY FRAMING BELOW

OPENING DIMENSIONS.

EL = SEE PLAN

HEADED SHEAR STUD

STEEL BEAM - SEE PLAN

NO SCALE

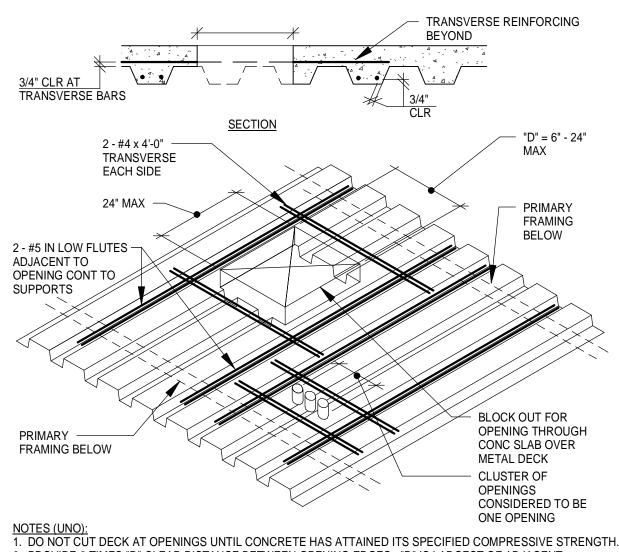
NO SCALE

· **7** 

DRAWINGS.

1" = 1'-0"

3



2. PROVIDE 2 TIMES "D" CLEAR DISTANCE BETWEEN OPENING EDGES. "D" IS LARGEST OF ADJACENT

TYPICAL FRAMING AT FLOOR OPENINGS (6"-32" MAX)

		BEAM SHEAR CONNECT	FION SCHED	JLE
STEEL BEAM		SHEAR CONNECTION SUPPORTING DECK ONLY		LE SHEAR CONNECTION S SUPPORTING OTHER BEAMS
SIZE	MIN ROWS OF BOLTS	MIN DESIGN SERVICE CAPACITY (KIPS)	MIN ROWS OF BOLTS	MIN DESIGN SERVICE CAPACITY (KIPS)
W8, W10	2	12	2	24
W12	3	23	3	46
W14	3	23	3	46
W16	4	35	4	70
W18	5	45	4	70
W21	6	55	5	90
W24	7	65	6	110
W27	7	65	6	110
W30	8	75	7	130
W33	8	75	7	130
W36	9	85	8	150
OTES:				

TO AISC STANDARD SHEAR CONNECTIONS. SUBMIT PROPOSED CONNECTION TYPES FOR APPROVAL BEFORE STARTING SHOP

WITHIN THE AVAILABLE CONNECTION GEOMETRY. ALL BEAM TO COLUMN CONNECTIONS SHALL BE DOUBLE SHEAR.

3. ALL BOLTS SHALL BE 3/4" DIAMETER A325-N OR 1" DIAMETER A490-N, UNLESS NOTED OTHERWISE.

4. SHOP CONNECTIONS MAY BE WELDED (WITH CAPACITY AS NOTED HEREIN) OR BOLTED.

6. USE TWO ANGLE CONNECTION TO ALL BEAMS FRAMING INTO CONCRETE EMBED PLATES.

BEAM SHEAR CONNECTION SCHEDULE

5. VALUES SHOWN ASSUME 1/4" BEAM WEB THICKNESS, MINIMUM.

N

1. CONTRACTOR/FABRICATOR SHALL DESIGN TYPICAL SHEAR CONNECTIONS FOR THIS PROJECT. CONNECTION TYPES SHALL CONFORM 2. PROVIDE BEAM CONNECTIONS FOR END REACTIONS INDICATED ABOVE OR AS SHOWN ON PLAN OR DETAIL, WHICHEVER IS GREATER. BEAM TO BEAM CONNECTIONS MAY BE SINGLE OR DOUBLE SHEAR, AS REQUIRED TO PROVIDE THE SPECIFIED CONNECTION CAPACITY

4

8

TYPICAL SECTION AT COMPOSITE DECK PERPENDICULAR TO BEAM (11

NOTES (UNO): 1. SEE TYPICAL DETAILS FOR DECK ATTACHMENT AND HEADED STUD INFORMATION.

COMPOSITE SLAB ON METAL

DECK

···· 4 · ·· 4 ··· 4

	FLOOR	AND ROOF DECK	SCHEDULE	
		CONCRET	E TOPPING	
MARK	DECK TYPE	THICKNESS	REINFORCING	COMMENTS
S1	3" - 19 GA COMPOSITE DECK	4 1/2" NORMAL WT	STRUX 90/40 SYNTHETIC FIBER	5.0 LBS/CU YD
S2	3" - 19 GA COMPOSITE DECK	6 1/2" NORMAL WT	#5 AT 12" OC EACH WAY	1 1/2" TOP COVER
S3	3" - 19 GA COMPOSITE DECK	6 1/2" NORMAL WT	STRUX 90/40 SYNTHETIC FIBER	5.0 LBS/CU YD
S4	3" - 20 GA COMPOSITE DECK	3" NORMAL WT	STRUX 90/40 SYNTHETIC FIBER	5.0 LBS/CU YD
D1	3" - 20 GA TYPE N ROOF DECK	NA	NA	NA
D2	3 1/2" - 16 GA ROOF DECK OR 4 1/2" - 18 GA ROOF DECK	NA	NA	NA
D3	1 1/2" - 20 GA TYPE N ROOF DECK	NA	NA	NA

NO SCALE

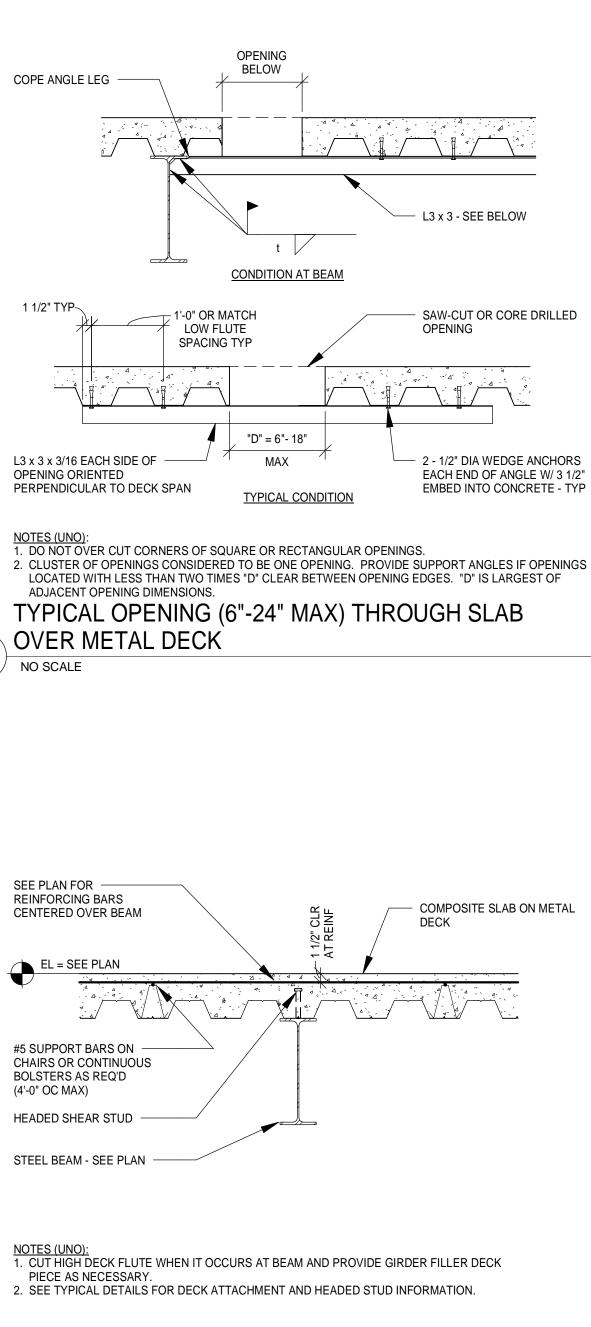
NOTES (UNO): 1. SEE TYPICAL DETAILS FOR DECK ATTACHMENT DETAILS. 2. SEE GENERAL STRUCTURAL NOTES FOR CONCRETE STRENGTH.

3. CONCRETE TOPPING THICKNESS IS FROM TOP OF DECK TO TOP OF CONCRETE 4. SEE PLANS AND DETAILS FOR ADDITIONAL REINFORCING AND REINFORCING PLACEMENT AT CONCRETE

SLABS ON METAL DECK.

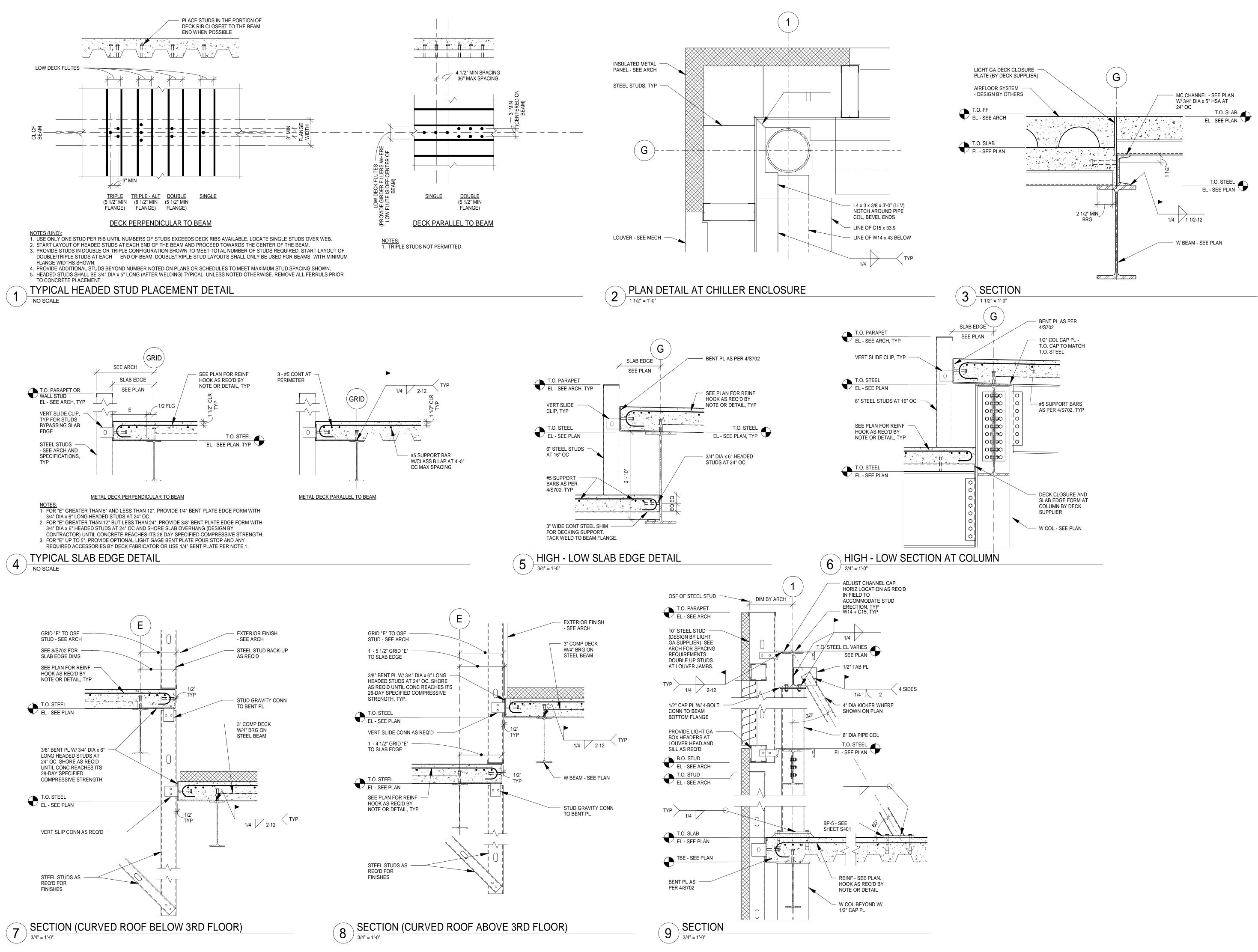
5. SEE SPECIFICATIONS FOR SYNTHETIC FIBERS. 6. ALL COMPOSITE DECK IS GALVANIZED. REFER TO SPECIFICATIONS FOR ROOF DECK FINISH.

# FLOOR AND ROOF DECK SCHEDULE

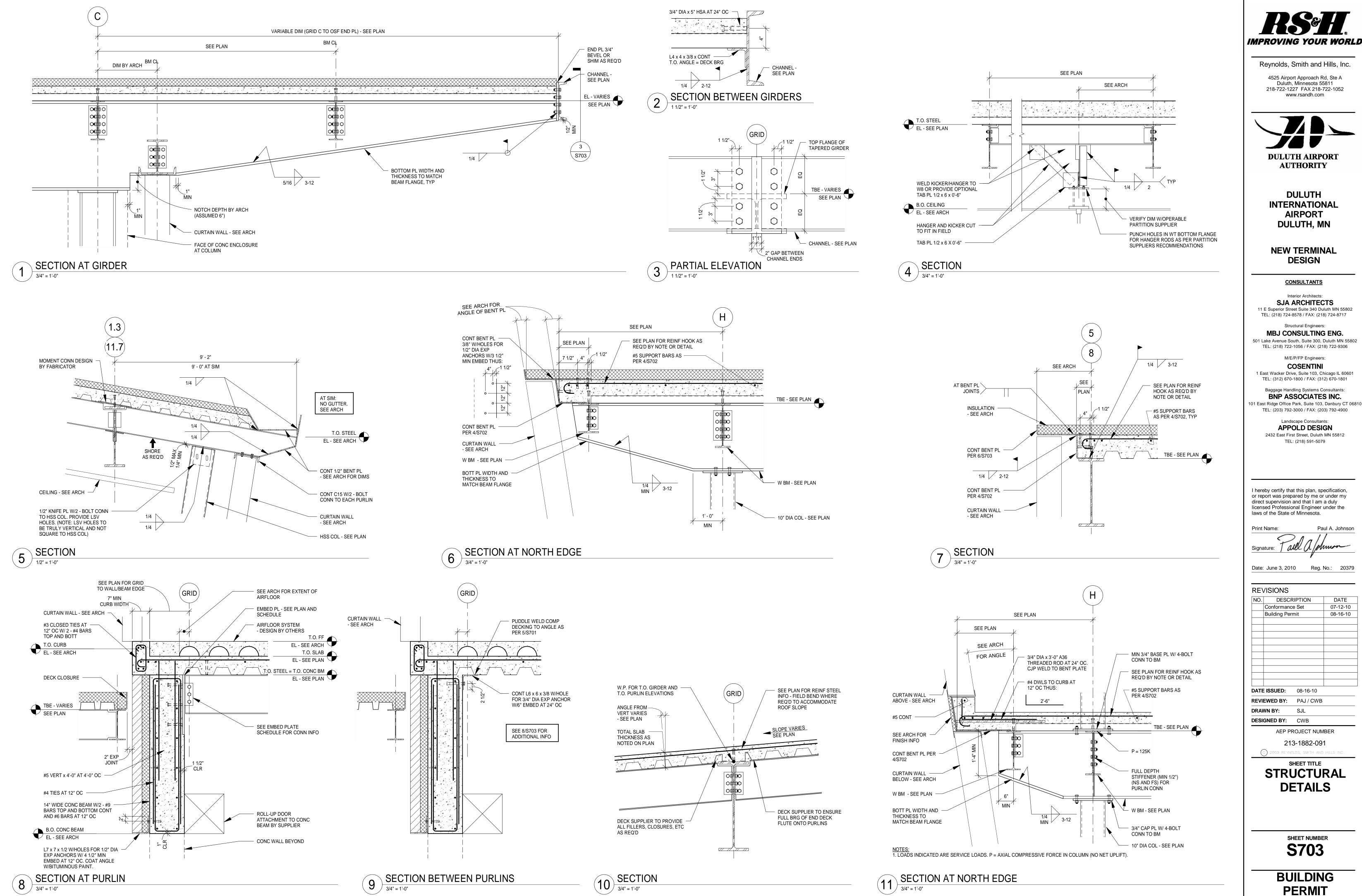


TYPICAL SECTION AT COMPOSITE DECK PARALLEL TO BEAM (12) IYPIC/ NO SCALE



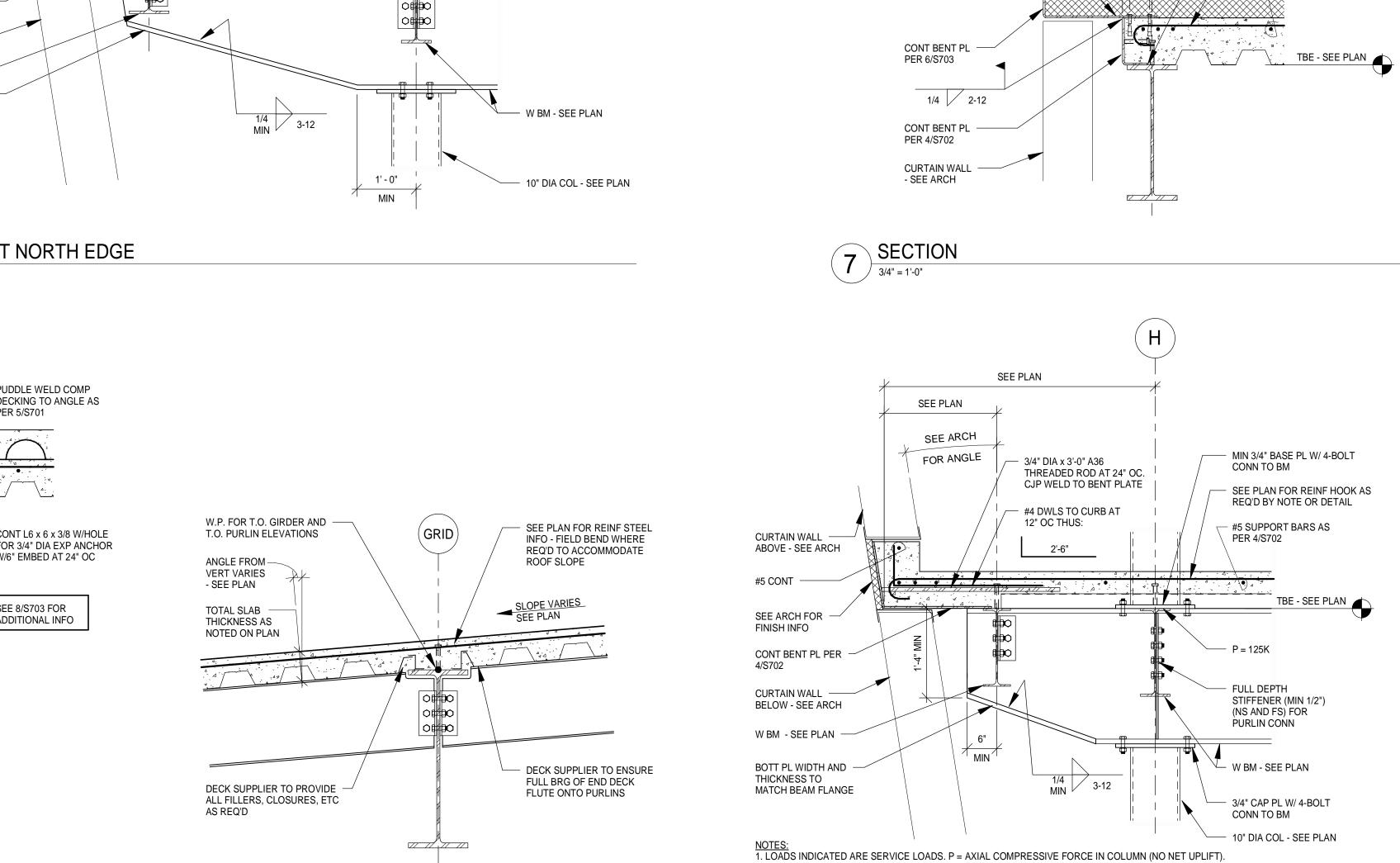


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Landscape Consultan APPOLD DESI 2432 East First Street, Duluth TEL: (218) 591-507	<b>GN</b> MN 55812
hereby certify that this plan, sp	
or report was prepared by me or lirect supervision and that I am icensed Professional Engineer	a duly
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> Landscape Consultants: APPOLD DESIGN 2432 East First Street, Duluth MN 55812 TEL: (218) 591-5079

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Paul A. Johnson mun all

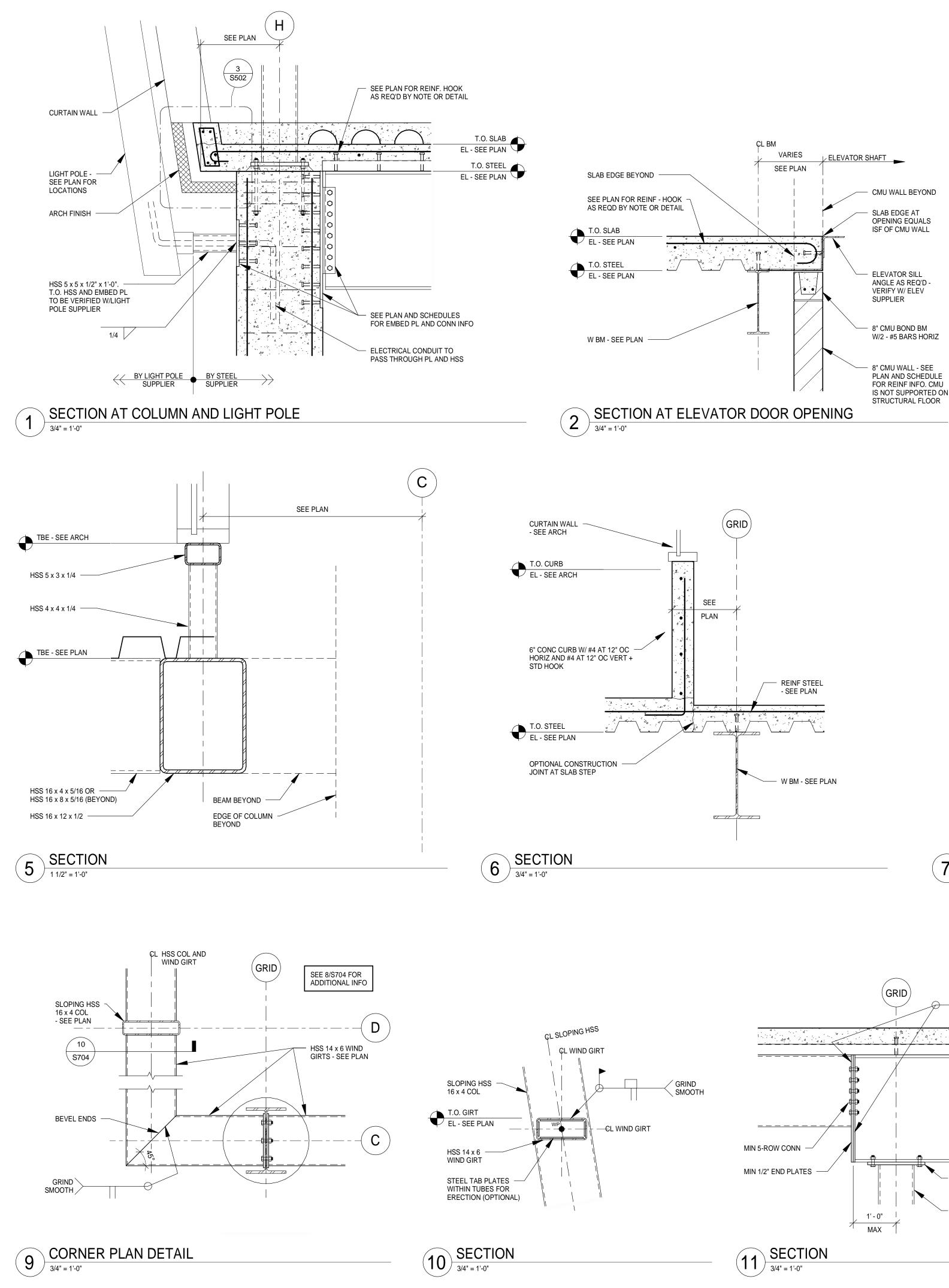
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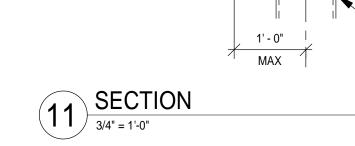
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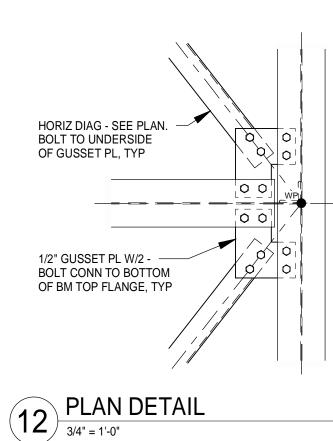
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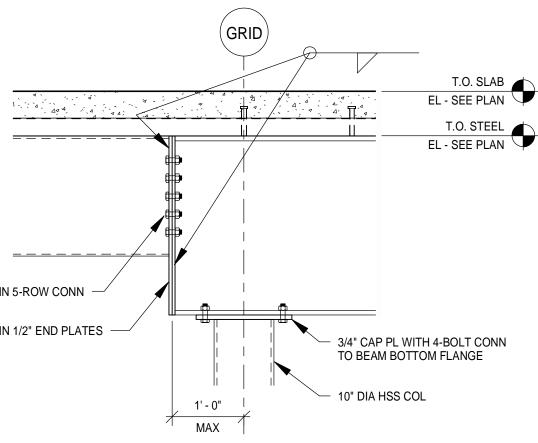
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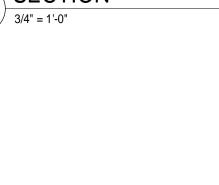
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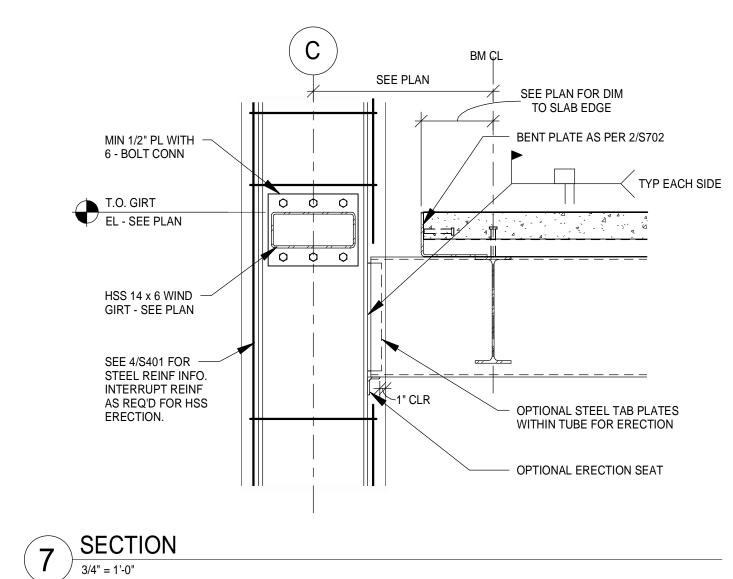


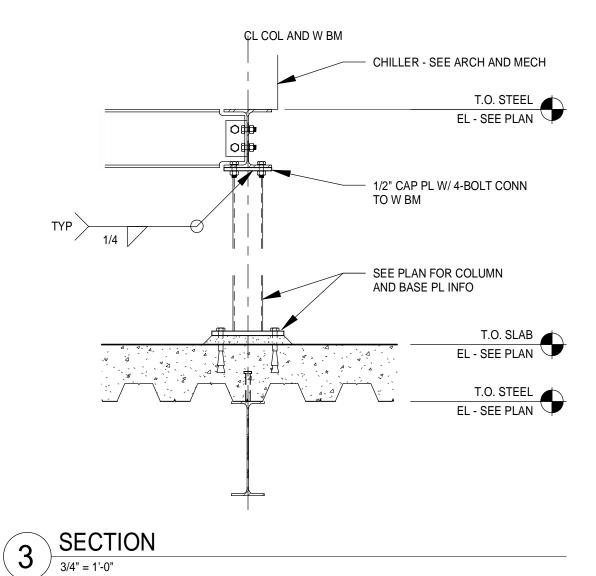


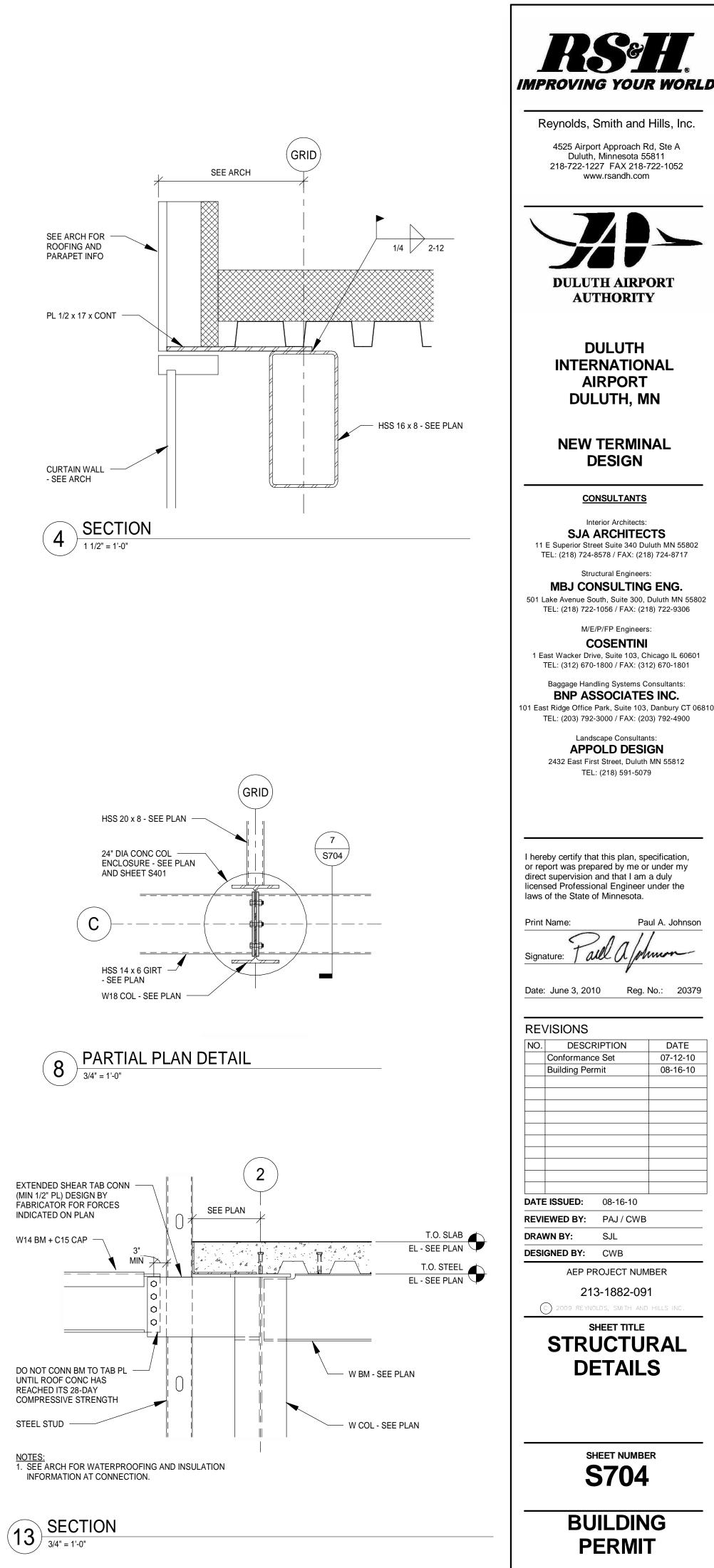


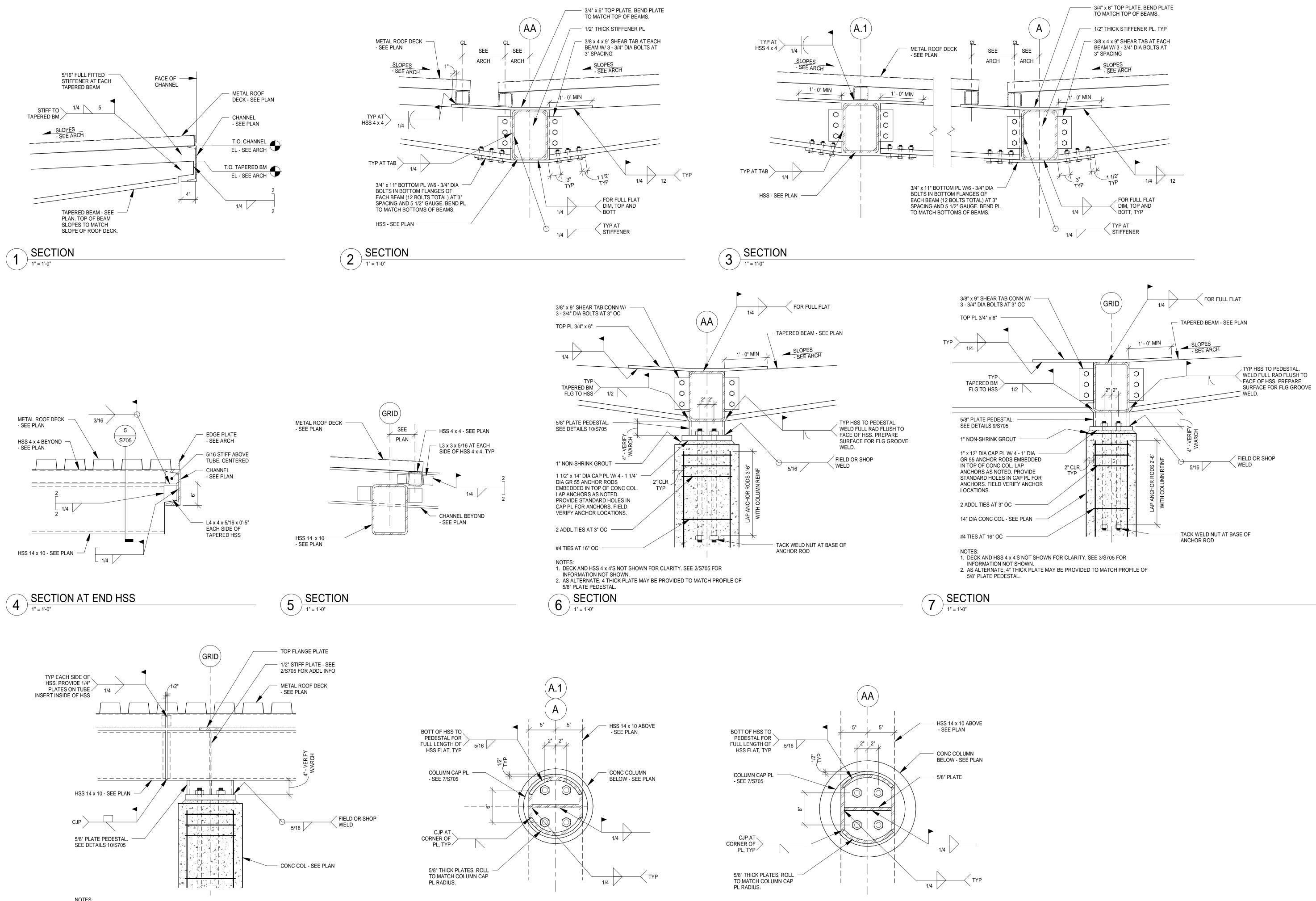


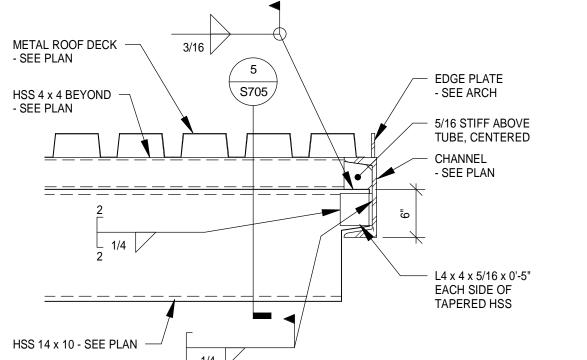


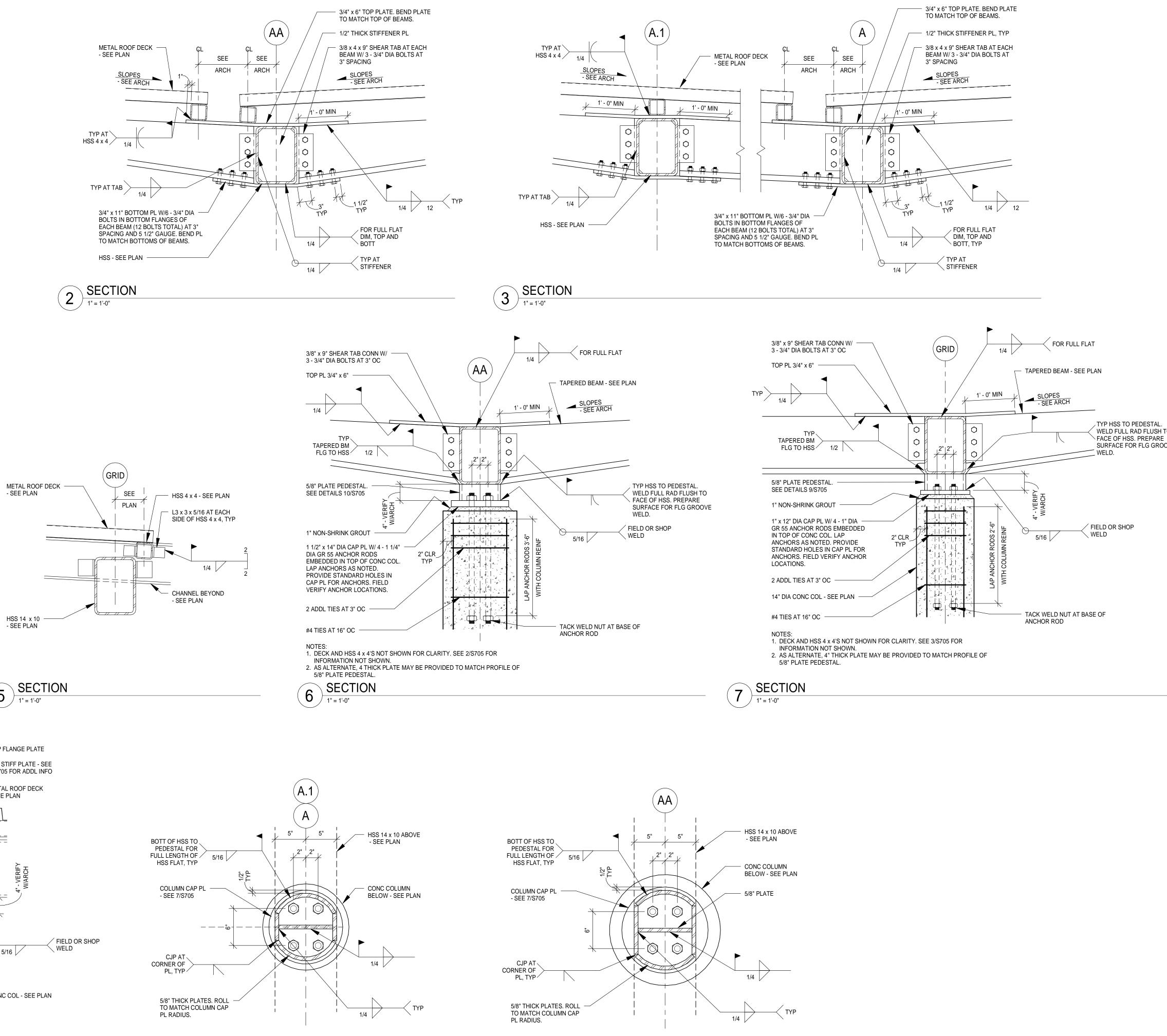






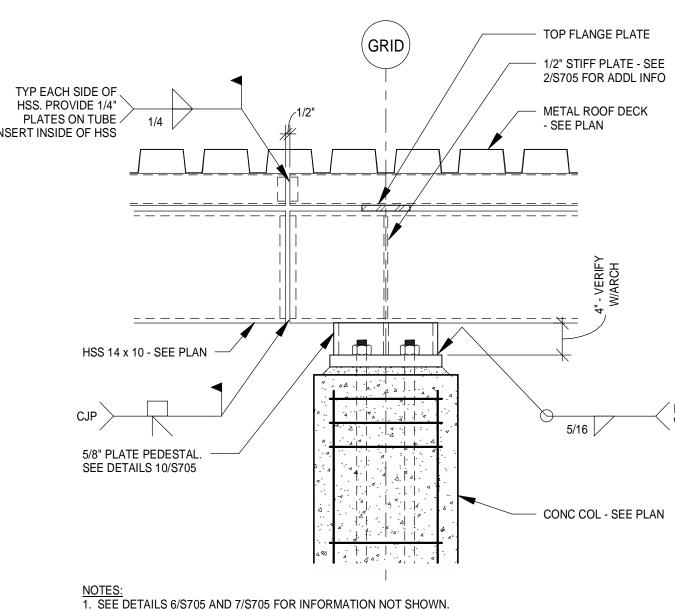


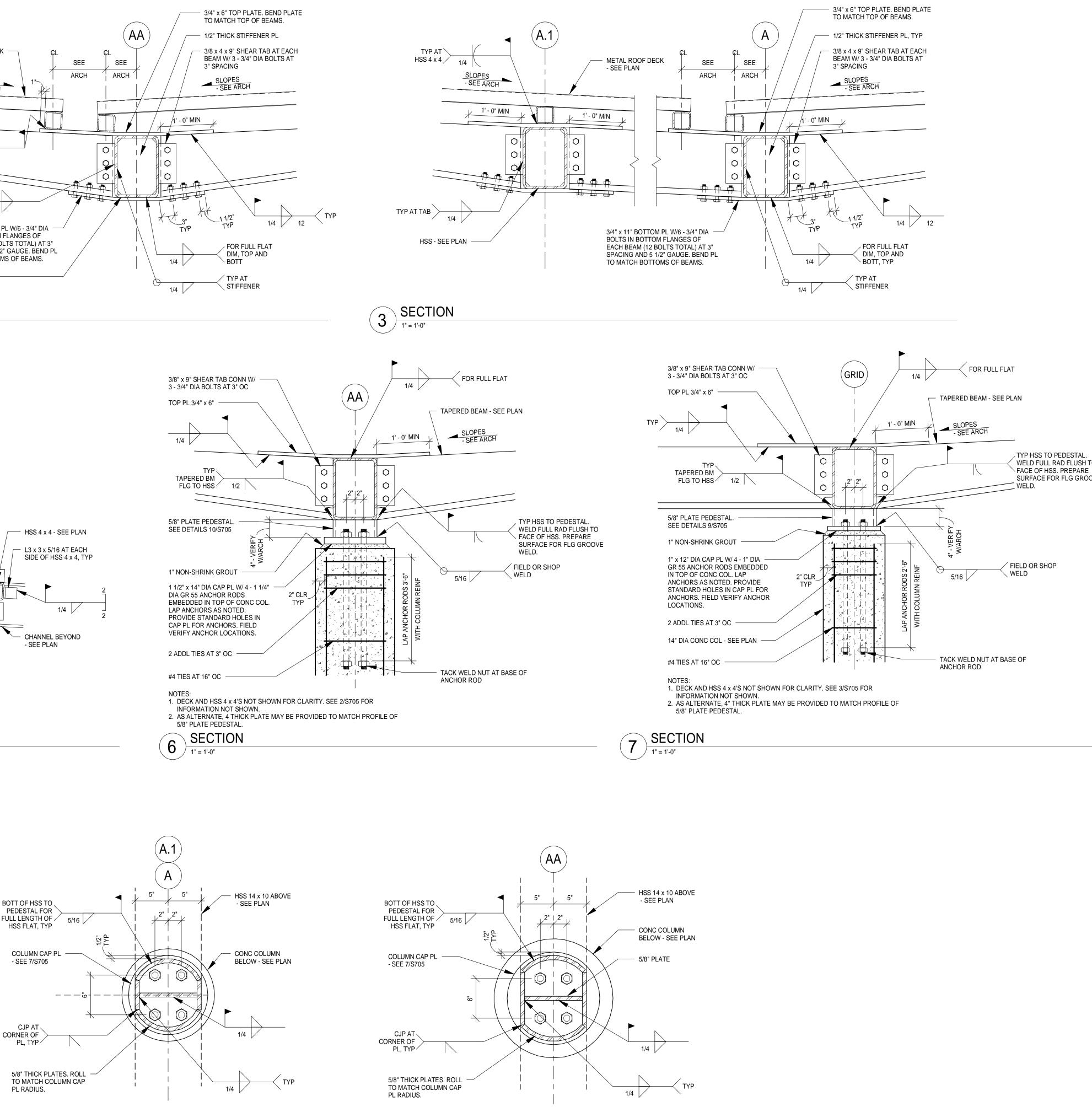










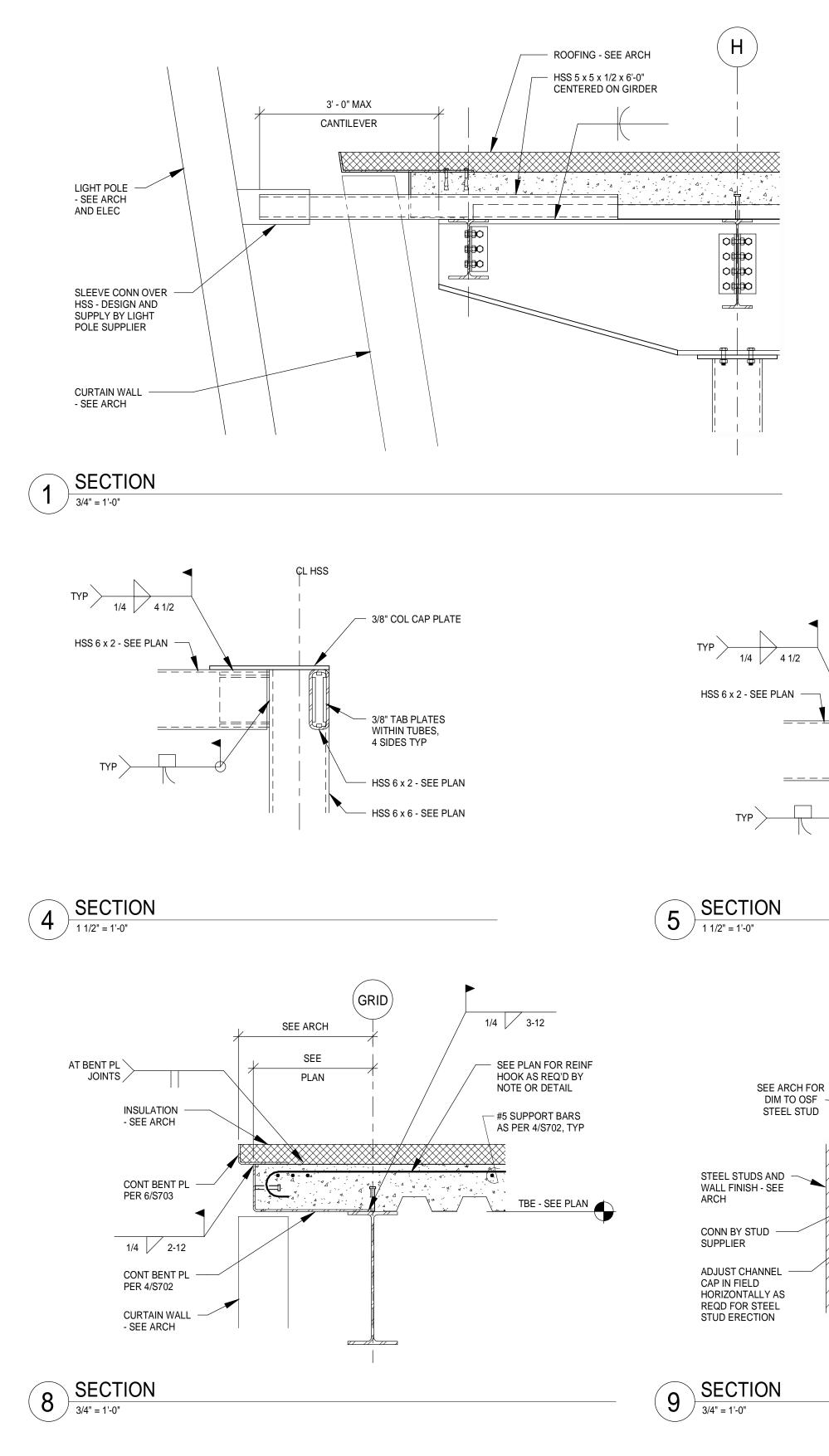


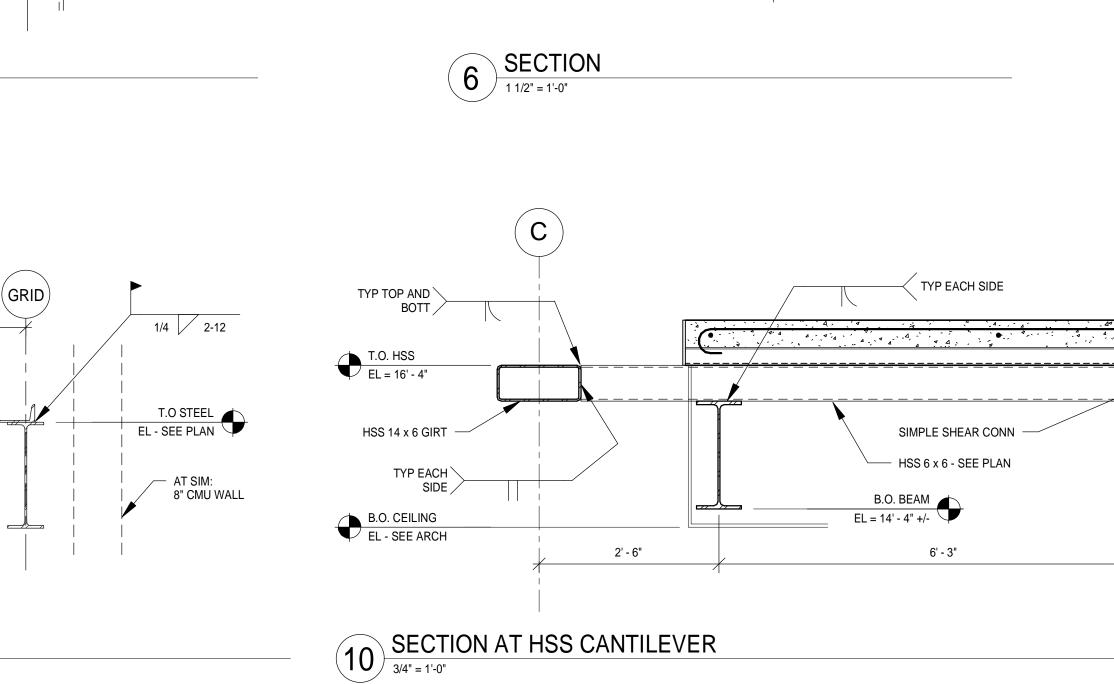


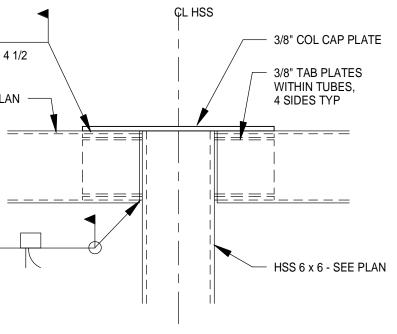


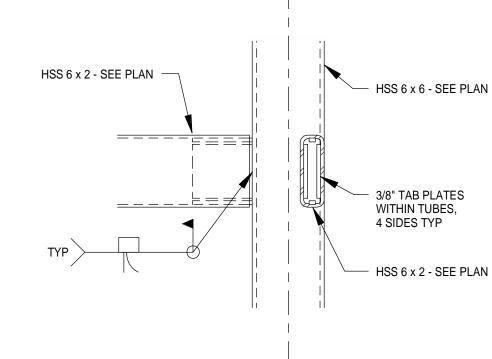
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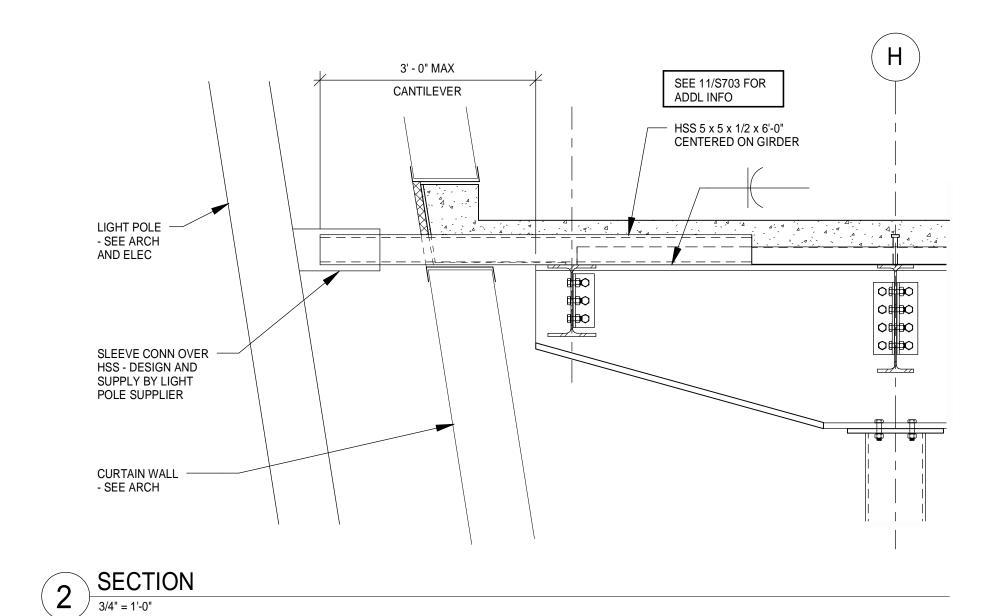


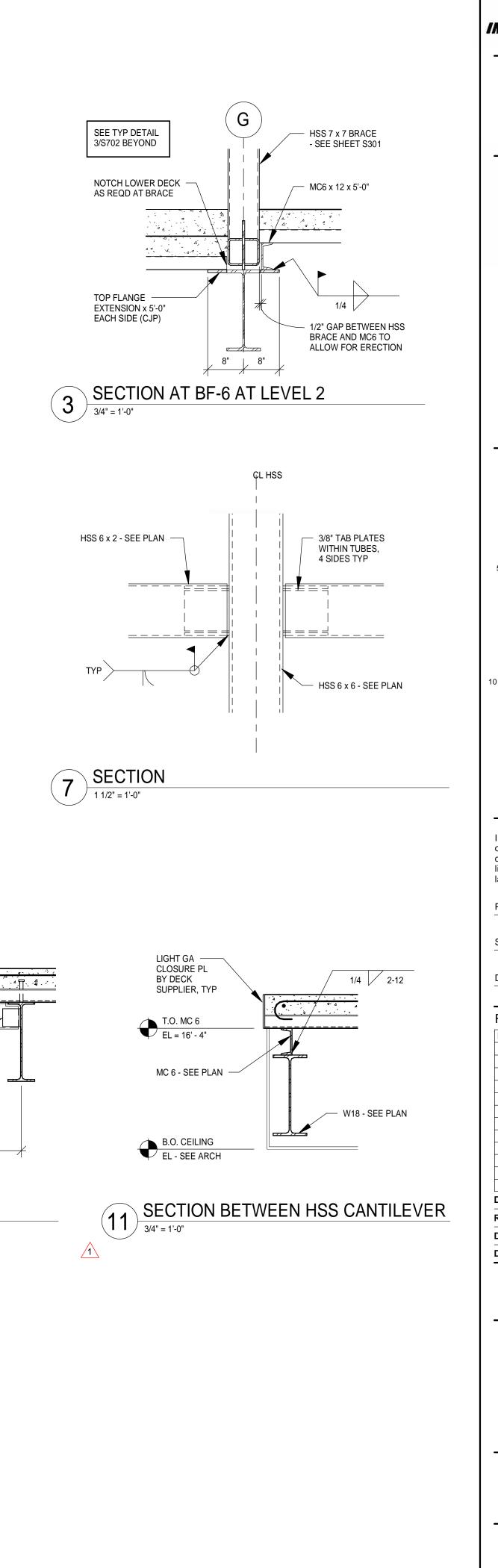






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8 IMPROVING YOUR WORLD Reynolds, Smith and Hills, Inc. 4525 Airport Approach Rd, Ste A Duluth, Minnesota 55811 218-722-1227 FAX 218-722-1052 www.rsandh.com **DULUTH AIRPORT** AUTHORITY DULUTH INTERNATIONAL AIRPORT DULUTH, MN **NEW TERMINAL** DESIGN **CONSULTANTS** Interior Architects: SJA ARCHITECTS 11 E Superior Street Suite 340 Duluth MN 55802 TEL: (218) 724-8578 / FAX: (218) 724-8717 Structural Engineers: MBJ CONSULTING ENG. 501 Lake Avenue South, Suite 300, Duluth MN 55802 TEL: (218) 722-1056 / FAX: (218) 722-9306 M/E/P/FP Engineers: COSENTINI 1 East Wacker Drive, Suite 103, Chicago IL 60601 TEL: (312) 670-1800 / FAX: (312) 670-1801 Baggage Handling Systems Consultants: BNP ASSOCIATES INC. 01 East Ridge Office Park, Suite 103, Danbury CT 06810 TEL: (203) 792-3000 / FAX: (203) 792-4900 Landscape Consultants: APPOLD DESIGN 2432 East First Street, Duluth MN 55812 TEL: (218) 591-5079 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota. Print Name: Paul A. Johnson Signature: all mun Date: June 3, 2010 Reg. No.: 20379 REVISIONS NO. DESCRIPTION DATE 06-10-10 1 Addendum 1 Conformance Set 07-12-10 Building Permit 08-16-10 **DATE ISSUED:** 08-16-10 **REVIEWED BY:** PAJ / CWB DRAWN BY: SJL DESIGNED BY: CWB AEP PROJECT NUMBER 213-1882-091  $\bigcirc$  2009 REYNOLDS, SMITH AND HILLS INC SHEET TITLE STRUCTURAL DETAILS SHEET NUMBER **S706** BUILDING PERMIT