ADDENDUM
NO. 1

April 9, 2025

AMES FIELD EXTERIOR IMPROVEMENTS
Michigan City, IN 46360

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated March 27, 2025 by Fanning Howey Associates, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1.

A. <u>SPECIFICATION SECTION 00 20 00 – INFORMATION AVAILABLE TO BIDDERS</u>

1. **Add:**

   a. 1994 Ames Field Construction Documents
   b. 1994 Ames Field Precast Concrete Drawings

RECEIVED: 6/17/94 SPECS: 3
FROM: Schenkel-Schultz
JOB: MICHIGAN CITY SPORTS COMPLEX
REP:
BID DATE:

MICHIGAN CITY AREA SCHOOLS
MICHIGAN CITY SPORTS COMPLEX
AMES FIELD

MICHIGAN CITY, INDIANA

MAY 31, 1994

SCHOOL BOARD

ROBERT R. JACKSON	PRESIDENT
J. JEFFREY JONES	VICE PRESIDENT
DENNIS MARTIN	SECRETARY
BERNARD H. BROWN	MEMBER
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MELVIN MERIWEATHER, JR.	MEMBER

SCHOOL ADMINISTRATION

DR. NATHANIEL CLAY	SUPERINTENDENT
MR. ROBERT HARBART	ASSOCIATE SUPERINTENDENT
MR. RICHARD G. COOK	ASSISTANT SUPERINTENDENT
MRS. ARDYS MORGAN	ASSISTANT SUPERINTENDENT
MR. JEFFRY C. KUTCH, P.E.	ADMINISTRATIVE ASSISTANT-PLANT PLANNING

THE ODLE McGUIRE & SHOOK CORPORATION

ARCHITECTURE ▪ ENGINEERING ▪ LANDSCAPE ARCHITECTURE ▪ INTERIOR DESIGN

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8275 ALLISON POINTE TRAIL, POST OFFICE BOX 50428, INDIANAPOLIS, INDIANA 46250, 317/842-0000

LIST OF ABBREVIATIONS

∠	ANGLE
A/V	AUDIO VISUAL
ACP	ACOUSTICAL CEILING PANEL
ADD	ADDENDUM
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOS	BOTTOM OF STRUCTURE
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BRNZ	BRONZE
BSMT	BASEMENT
℄	CENTERLINE
CB	CHALKBOARD
CF	COMPUTER FLOOR
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CP	CEMENT PLASTER
CPT	CARPET
CT	CERAMIC TILE
CU FT	CUBIC FEET
CU YD	CUBIC YARD
D	DEPTH/DEEP
DBL	DOUBLE
DEPT	DEPARTMENT
DISP	DISPENSER/DISPOSAL UNIT
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
EA	EACH
ELEC/ELECT	ELECTRIC/ELECTRICAL
ELEV/EL	ELEVATION/ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENT	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EXPOSED STRUCTURE
ESP	EXPOSED STRUCTURE PAINTED
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXP. JT/EJ	EXPANSION JOINT
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFEL	FINISHED FLOOR ELEVATION
FLR	FLOOR/FLOORING
FRG	FURRING
FRP	FIBERGLASS REINFORCED PLASTIC
FRPF	FIREPROOF
FT	FEET/FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GSF	GROSS SQUARE FEET
GWB	GYPSUM WALL BOARD
HC	HANDICAPPED
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
IBC	INDIANA BUILDING CODE
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
L	LENGTH
LAV	LAVATORY
LS	LIMESTONE
MAX	MAXIMUM
MB	DRY MARKER BOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM/MINUTE
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTG	MOUNTING
MTL	METAL
MULL	MULLION
N/A	NOT APPLICABLE
N/S	NON-SLIP
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OP	OPERABLE PANEL
OPP	OPPOSITE
PL	PLATE
P	PAINT
PART. BD	PARTICLE BOARD
PC	PRECAST CONCRETE
PLAS	PLASTER
PLAS. LAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS/RISER
RB	RESILIENT BASE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REFR	REFRIGERATOR
REINF	REINFORCED/REINFORCING
RES	RESILIENT
REV	REVISION
RO	ROUGH OPENING
ROD	ROOF OVERFLOW DRAIN
RT	RUBBER TILE
S/S	STAINLESS STEEL
SAN	SANITARY
SC	SPECIAL COATING
SCHED	SCHEDULED
SECT	SECTION
SF	SQUARE FEET/STAGE FLOORING
SGF	SYNTHETIC GYM FLOORING
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLNT	SEALANT
SLR	SEALER
SPEC(S)	SPECIFICATION(S)
SQ FT	SQUARE FOOT/FEET
SQ	SQUARE
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
T&G	TONGUE AND GROOVE
TB	TACKBOARD
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICK
TOS	TOP OF SLAB
TOW	TOP OF WALL
TRNSPT	TRANSPARENT
TRD	TREAD
TYP	TYPICAL
TZ	TERRAZZO
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UL	UNDERWRITERS' LABORATORY
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VENT	VENTILATOR/VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
WWM/WWF	WELDED WIRE MESH/FABRIC
W/O	WITHOUT
W	WIDTH/WIDE
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDG	WOOD DIRECT GLUED
WP	WALL PADDING
WSCT	WAINSCOT
WT	WEIGHT

CODE SUMMARY

1. OCCUPANCY CLASSIFICATION
   THE OCCUPANCY CLASSIFICATION IS A-4. THE LOCKER ROOMS, REST ROOMS, AND STORAGE AREAS ARE TO SUPPORT THIS OCCUPANCY. THE LAWN EQUIPMENT STORAGE AREA WILL NOT HAVE FLAMMABLE LIQUIDS THAT EXCEED THE LIMITS OF TABLE 9A OF THE INDIANA BUILDING CODE.

2. CONSTRUCTION TYPE
   THE REQUIRED CONSTRUCTION TYPE OF THE STRUCTURE IS II - ONE HOUR.
   THE ACTUAL MATERIALS WILL BE CONCRETE BLOCK AND POURED CONCRETE.

3. STORIES ABOVE GRADE
   THE HEIGHT OF THE LAST SEAT OF THE STANDS DOES NOT EXCEED THE 55 FOOT LIMIT PER TABLE 5-D OF THE INDIANA BUILDING CODE FOR AN A-4, II - ONE HOUR BUILDING.

4. ALLOWABLE AREA
   THE AREA OF THE BUILDING IS 12,300 SQUARE FEET. THE BASIC ALLOWABLE AREA OF THE BUILDING IS:
   10,500 SQUARE FEET PER TABLE 5-C
   X 100% YARD INCREASE PER SECTION 506 I.B.C.

   21,000 ALLOWABLE

5. FIRE SUPPRESSION
   THE BLEACHERS ARE SEPARATED FROM THE AREA BENEATH BY A ONE HOUR OCCUPANCY SEPARATION THAT IS REQUIRED BY SECTION 602 (e)2 OF THE I.B.C.

6. NUMBER OF OCCUPANTS
   THE SEATING CAPACITY OF THE STANDS IS 3032 SEATS.

7. EXITING REQUIREMENTS
   A. NUMBER AND WIDTH OF EXITS ARE PROVIDED IN ACCORDANCE WITH SECTION 3322 (g)7 I.B.C.
      THE OPEN AIR STANDS REQUIRE A MINIMUM OF FOUR EXITS. EXIT WIDTH IS DIVIDED BETWEEN STAIRS AND RAMPS. THE STAIRS ARE EACH 8 FEET WIDE AND THE RAMPS ARE 7 FEET WIDE.
      THE EXIT POTENTIAL CAN BE CALCULATED BY THE OCCUPANT FACTORS OF SECTION 3322 (g)8 I.B.C.:
      STAIRS:
      2 STAIRS x 8 FEET = 16 FEET OF EXIT WIDTH,
      16 FEET x THE OCCUPANT FACTOR OF 150 PEOPLE PER FOOT = 2,400 PEOPLE.
      RAMPS:
      2 RAMPS x 7 FEET = 14 FEET OF EXIT WIDTH,
      14 FEET x THE OCCUPANT FACTOR OF 200 PEOPLE PER FOOT = 2,800 PEOPLE.
      TOTAL:
      THE EXIT WIDTH COULD HANDLE A TOTAL OF 5,200 PEOPLE. THE STANDS ONLY SEAT 3032 PEOPLE.
   B. THE TEAM LOCKER ROOMS REQUIRE TWO EXITS PER TABLE 33-A I.B.C.. THE EXITS ARE MORE THAN 50% OF THE TRAVEL DISTANCE APART. ONE EXITS INTO THE LOCKER LOBBY AND ONE INTO THE STAIRCASE.

8. GUARDRAILS
   THE GUARDRAILS WILL NOT ALLOW FOR A SPHERE OF FOUR INCHES IN DIAMETER TO PASS THROUGH THEM.

9. FIRE RESISTIVE REQUIREMENTS
   THE ELECTRICAL ROOM IS SEPARATED FROM THE STORAGE ROOM PER THE INDIANA ELECTRICAL CODE AND IS CONSTRUCTED OF ONE HOUR WALLS. THE MECHANICAL AREA IS ISOLATED TO INSURE THE PROPER CLEARANCES PER THE INDIANA MECHANICAL CODE.

10. PLUMBING REQUIREMENTS
    THE PLUMBING FIXTURE COUNT EXCEEDS THE REQUIREMENTS OF TABLE 5-E I.B.C.

3032 PEOPLE / 2 = 1516 MEN	1516 WOMEN
11 REQUIRED FIXTURES	16 REQUIRED FIXTURES
13 PROVIDED	17 PROVIDED

11. ACCESSIBILITY
    THE BUILDING IS FULLY HANDICAPPED ACCESSIBLE INCLUDING:
    A. SEATING LOCATIONS
    B. RESTROOMS
    C. ELEVATOR TO PRESSBOX
    D. RAMPS
    E. SHOWERS
    F. PROTECTED PIPES UNDER THE SINKS

LIST OF DRAWINGS

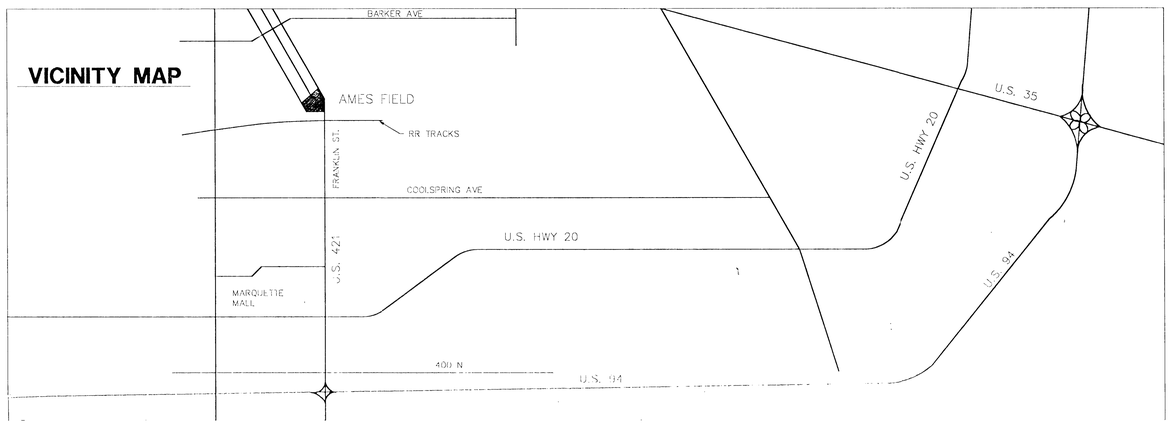
SYMBOL LEGEND

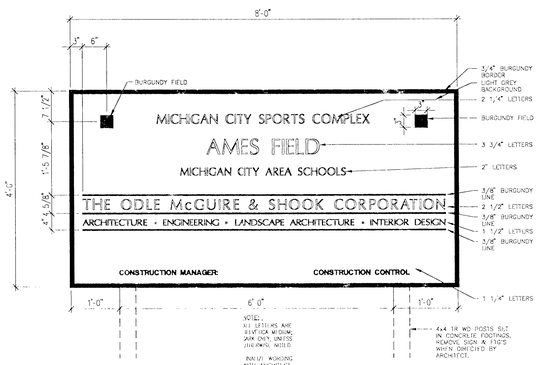
1 / A401 (SECTION NUMBER / DRAWING NUMBER)	SECTION	EXAM / A101	ROOM NAME & NUMBER
2 / A601 (DETAIL NUMBER / DRAWING NUMBER)	DETAIL	C1	EQUIPMENT TYPE
A / A301 (ELEVATION NUMBER / DRAWING NUMBER)	ELEVATION	BL / 1	BORROWED LIGHT NUMBER
		1	PLAN NOTES
12'-6"	FINISHED FLOOR ELEVATION	A202	DOOR NUMBER
		W / 1	WINDOW TYPE NUMBER
1	GRID LINE		

MATERIALS LEGEND

CMU	METAL STUD & G.W.B. (PLAN)	ALUMINUM(SECTION)
BRICK	MARBLE/ TERRAZZO	STEEL (SECTION)
CONCRETE	GYPSUM WALL BOARD	LIMESTONE
COMPACTED SAND	WOOD (ROUGH)	RIGID INSULATION
ASPHALT PAVING	NOT USED	BATT INSULATION
EARTH (FILL OR UNDISTURBED)	PLYWOOD	ACOUSTICAL PANEL/TILE
		COMPACTED GRANULAR FILL

VICINITY MAP





JOB SIGN

SCALE: NONE

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CERTIFIED

REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: MAY 31, 1994
drawn by: MRM
checked by: GJ

INDEX

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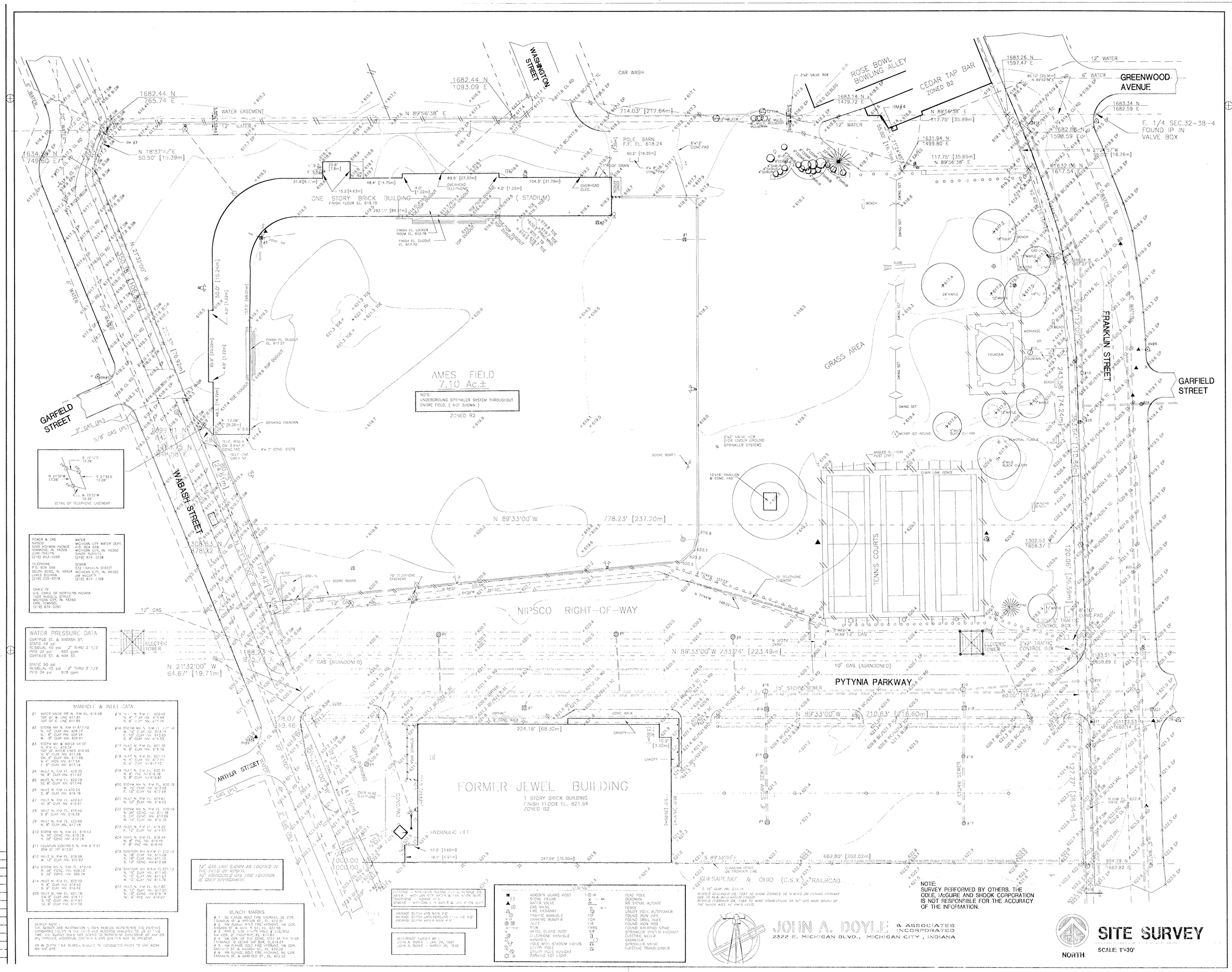

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MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

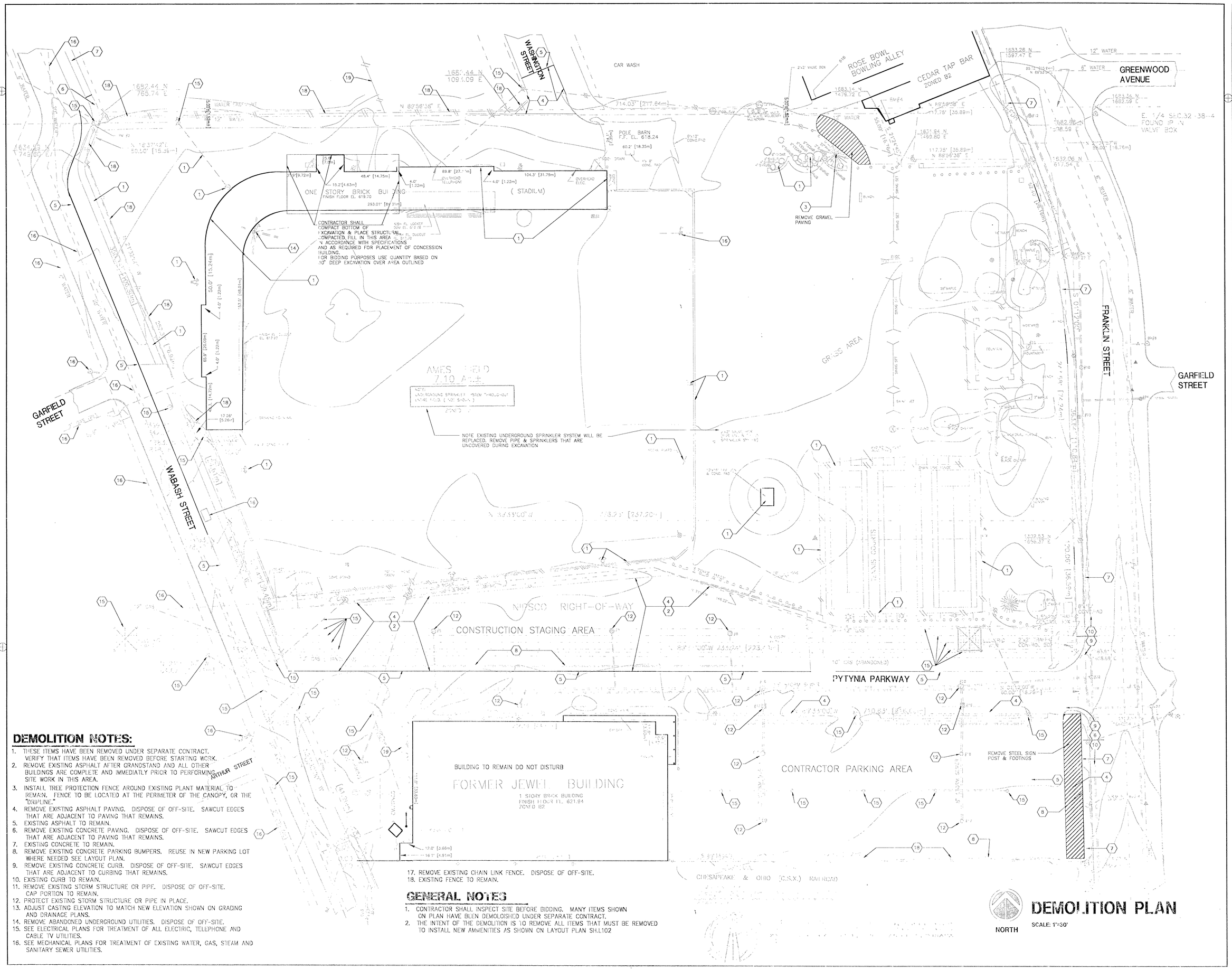
DATE: 31 MAY 1994

drawn by:

checked by:

L100

SITE SURVEY



DEMOLITION NOTES:

1. THESE ITEMS HAVE BEEN REMOVED UNDER SEPARATE CONTRACT. VERIFY THAT ITEMS HAVE BEEN REMOVED BEFORE STARTING WORK.
2. REMOVE EXISTING ASPHALT AFTER GRANDSTAND AND ALL OTHER BUILDINGS ARE COMPLETE AND IMMEDIATLY PRIOR TO PERFORMING SITE WORK IN THIS AREA.
3. INSTALL TREE PROTECTION FENCE AROUND EXISTING PLANT MATERIAL TO REMAIN. FENCE TO BE LOCATED AT THE PERIMETER OF THE CANOPY, OR THE "DRIPLINE."
4. REMOVE EXISTING ASPHALT PAVING. DISPOSE OF OFF-SITE. SAWCUT EDGES THAT ARE ADJACENT TO PAVING THAT REMAINS.
5. EXISTING ASPHALT TO REMAIN.
6. REMOVE EXISTING CONCRETE PAVING. DISPOSE OF OFF-SITE. SAWCUT EDGES THAT ARE ADJACENT TO PAVING THAT REMAINS.
7. EXISTING CONCRETE TO REMAIN.
8. REMOVE EXISTING CONCRETE PARKING BUMPERS. REUSE IN NEW PARKING LOT WHERE NEEDED SEE LAYOUT PLAN.
9. REMOVE EXISTING CONCRETE CURB. DISPOSE OF OFF-SITE. SAWCUT EDGES THAT ARE ADJACENT TO CURBING THAT REMAINS.
10. EXISTING CURB TO REMAIN.
11. REMOVE EXISTING STORM STRUCTURE OR PIPE. DISPOSE OF OFF-SITE. CAP PORTION TO REMAIN.
12. PROTECT EXISTING STORM STRUCTURE OR PIPE IN PLACE.
13. ADJUST CASTING ELEVATION TO MATCH NEW ELEVATION SHOWN ON GRADING AND DRAINAGE PLANS.
14. REMOVE ABANDONED UNDERGROUND UTILITIES. DISPOSE OF OFF-SITE.
15. SEE ELECTRICAL PLANS FOR TREATMENT OF ALL ELECTRIC, TELEPHONE AND CABLE TV UTILITIES.
16. SEE MECHANICAL PLANS FOR TREATMENT OF EXISTING WATER, GAS, STEAM AND SANITARY SEWER UTILITIES.
17. REMOVE EXISTING CHAIN LINK FENCE. DISPOSE OF OFF-SITE.
18. EXISTING FENCE TO REMAIN.

GENERAL NOTES

1. CONTRACTOR SHALL INSPECT SITE BEFORE BIDDING. MANY ITEMS SHOWN ON PLAN HAVE BEEN DEMOLOISHED UNDER SEPARATE CONTRACT.
2. THE INTENT OF THE DEMOLITION IS TO REMOVE ALL ITEMS THAT MUST BE REMOVED TO INSTALL NEW AMMENITIES AS SHOWN ON LAYOUT PLAN SH.L102

DEMOLITION PLAN

SCALE: 1"=30'

KENNETH L. BOWMAN REGISTERED No.7192 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: 31 MAY 1994
drawn by: SMR
checked by: BWR

L101

DEMOLITION PLAN

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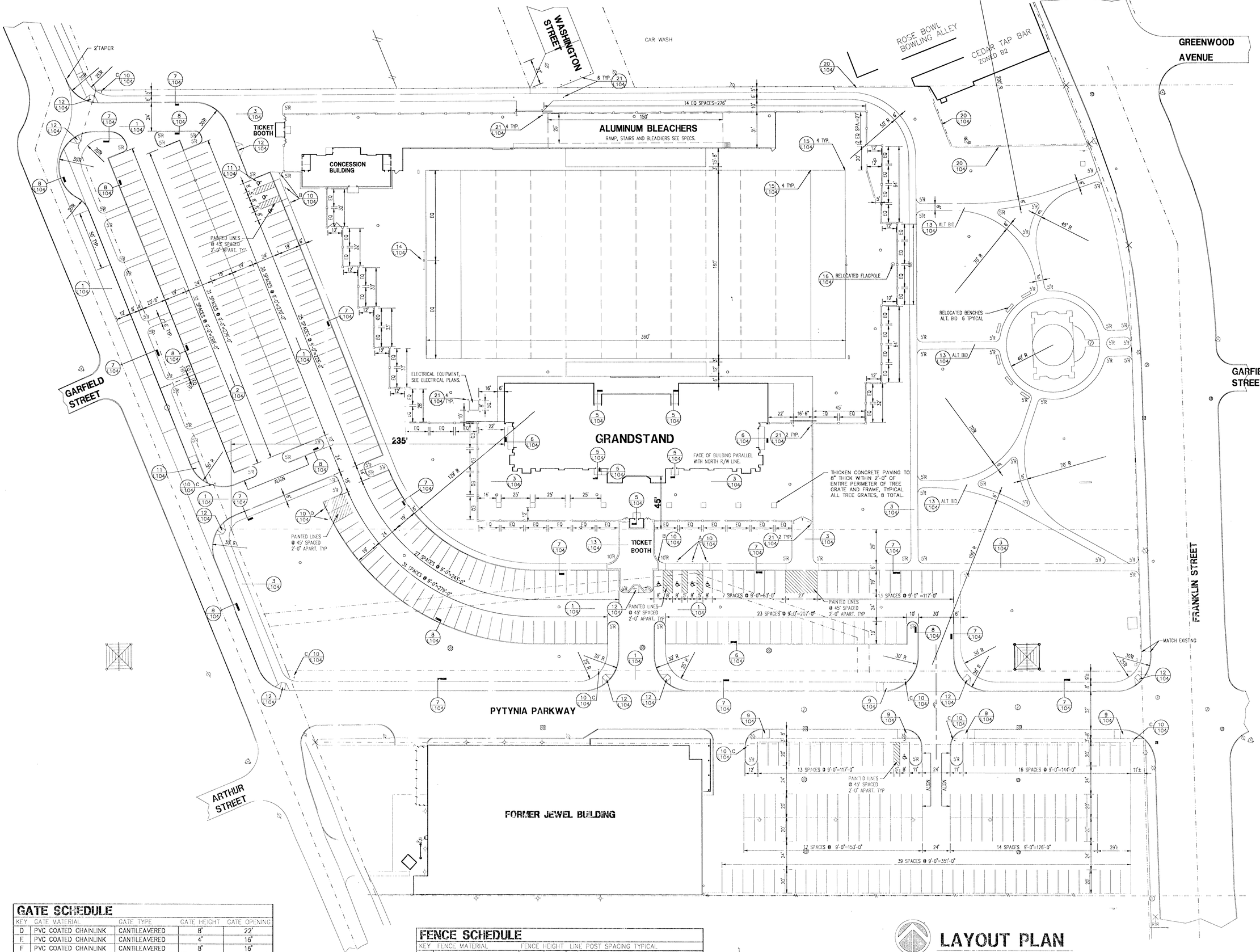

GATE SCHEDULE

KEY	GATE MATERIAL	GATE TYPE	GATE HEIGHT	GATE OPENING
D	PVC COATED CHAINLINK	CANTILEAVERED	8'	22'
E	PVC COATED CHAINLINK	CANTILEAVERED	4'	16'
F	PVC COATED CHAINLINK	CANTILEAVERED	8'	16'
G	PVC COATED CHAINLINK	SWINGING SINGLE	4'	4'
H	ORNAMENTAL PICKET	SWINGING DOUBLE	8'	16'
I	ORNAMENTAL PICKET	SWINGING DOUBLE	8'	6'
J	ORNAMENTAL PICKET	SWINGING DOUBLE	8'	12'

FENCE SCHEDULE

KEY	FENCE MATERIAL	FENCE HEIGHT	LINE POST SPACING TYPICAL
A	PVC COATED CHAINLINK	4'	10' ON CENTER MAXIMUM
B	PVC COATED CHAINLINK	8'	10' ON CENTER MAXIMUM
C	ORNAMENTAL PICKET	8'	6'-6" ON CENTER IRON PICKET BASE BID 6' ON CENTER ALUMINUM PICKET ALT. BID

LAYOUT PLAN

SCALE: 1"=30'

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MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: 31 MAY 1994

drawn by: SMR

checked by: BWR

L102

LAYOUT PLAN

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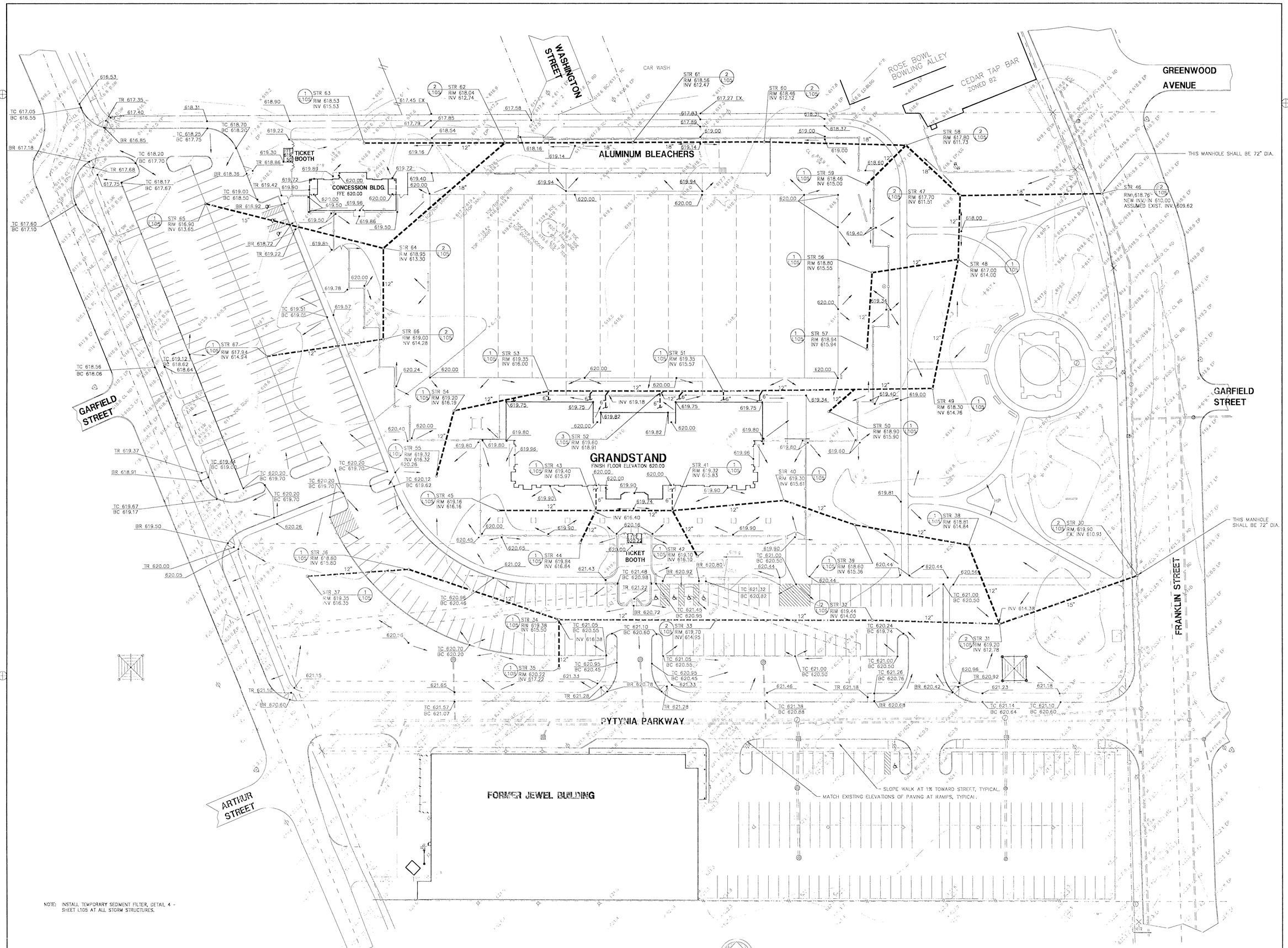

NOTE: INSTALL TEMPORARY SEDIMENT FILTER, DETAIL 4 - SHEET L105 AT ALL STORM STRUCTURES.

GRADING AND DRAINAGE PLAN

SCALE: 1"=30'

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AMES FIELD

MICHIGAN CITY, INDIANA

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DATE: 31 MAY 1994

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checked by: BWR

L103

GRADING AND DRAINAGE PLAN

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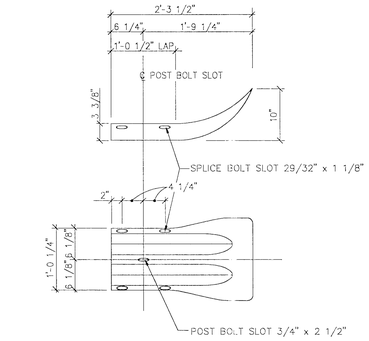
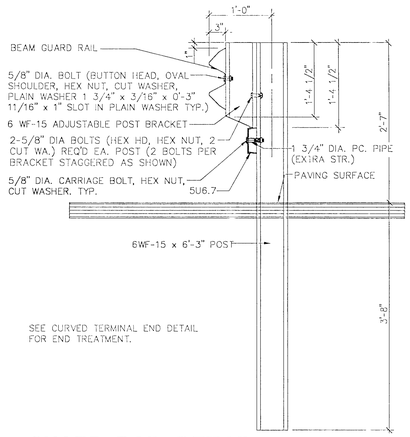


CURVED TERMINAL END
NO SCALE (19 / L104)



GUARD RAIL DETAIL
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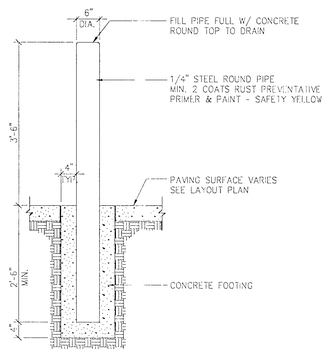

BOLLARD
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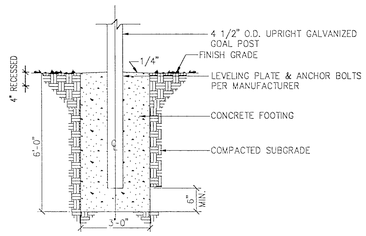

GOAL POST FOOTING
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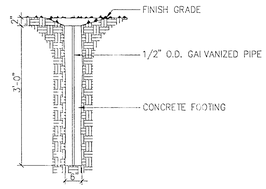

CORNER MARKER
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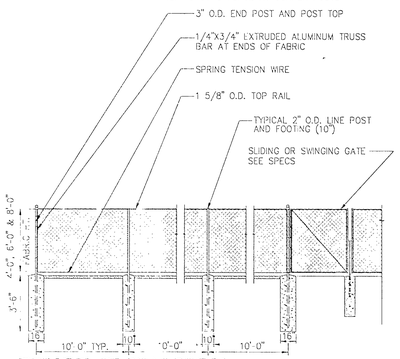

FENCE ELEVATION
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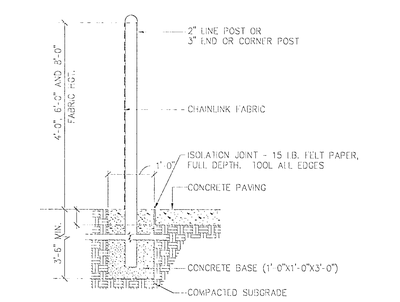

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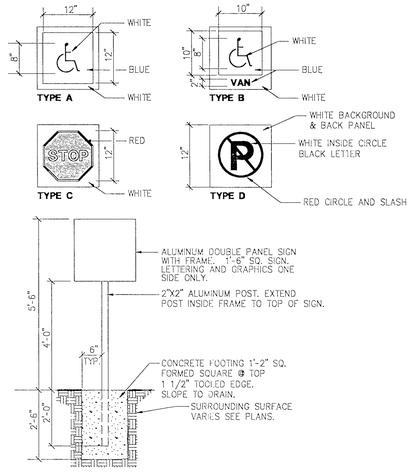

SIGN DETAILS
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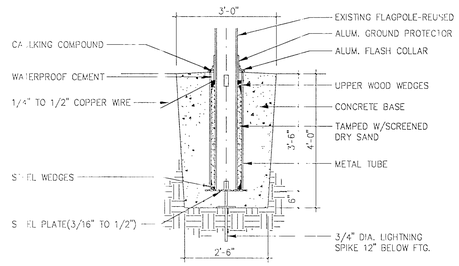
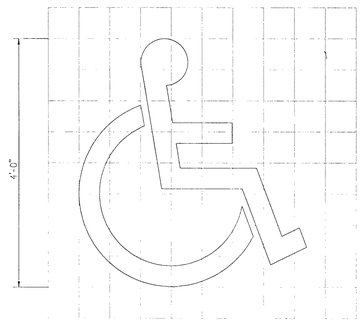
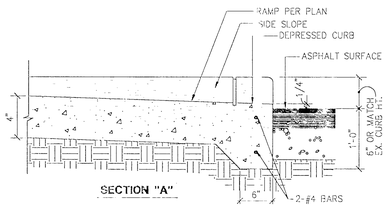
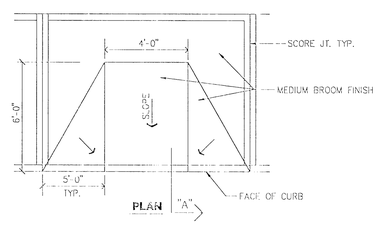


FLAGPOLE BASE DETAIL
NO SCALE (16 / L104)

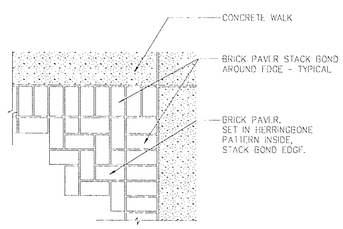


HANDICAP PAVEMENT MARKING
NO SCALE (11 / L104)

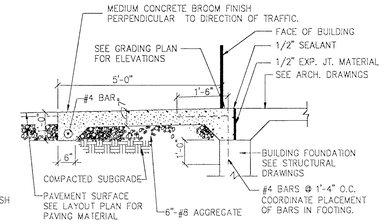




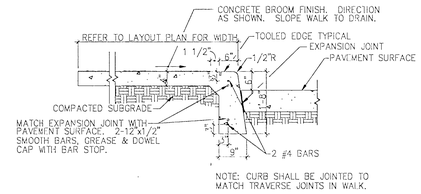
HANDICAP RAMP
NO SCALE (12 / L104)



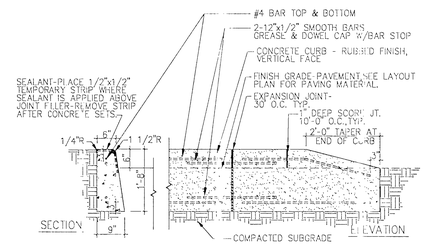
CONCRETE PAVERS - PLAN
NO SCALE (13 / L104)



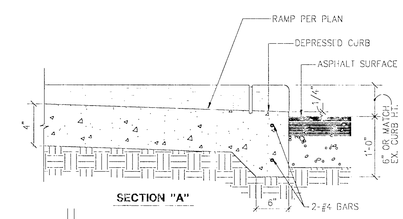
CONCRETE APRON SECTION
NO SCALE (6 / L104)

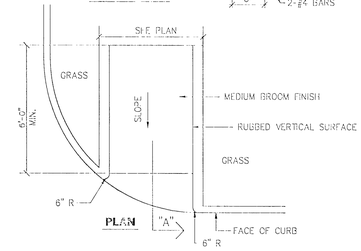


INTEGRAL CURB & WALK
NO SCALE (7 / L104)

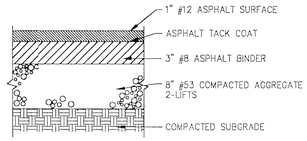


CONCRETE CURB
NO SCALE (8 / L104)

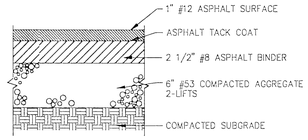




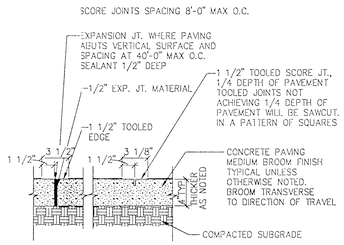
HANDICAP RAMP
NO SCALE (9 / L104)



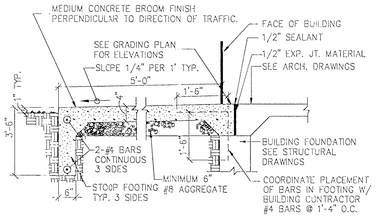
ASPHALT PAVING
NO SCALE (1 / L104)



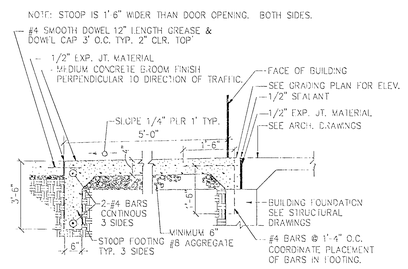
ASPHALT PAVING
NO SCALE (2 / L104)



CONCRETE PAVING
NO SCALE (3 / L104)



CONCRETE STOOP @ LAWN
NO SCALE (4 / L104)



CONCRETE STOOP @ PAVING
NO SCALE (5 / L104)

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8275 ALLISON POINTE TRAIL, POST OFFICE BOX 36428, INDIANAPOLIS, INDIANA 46236, 317/842-0000

MICHAEL L. DOWNEY REGISTERED No.7192 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

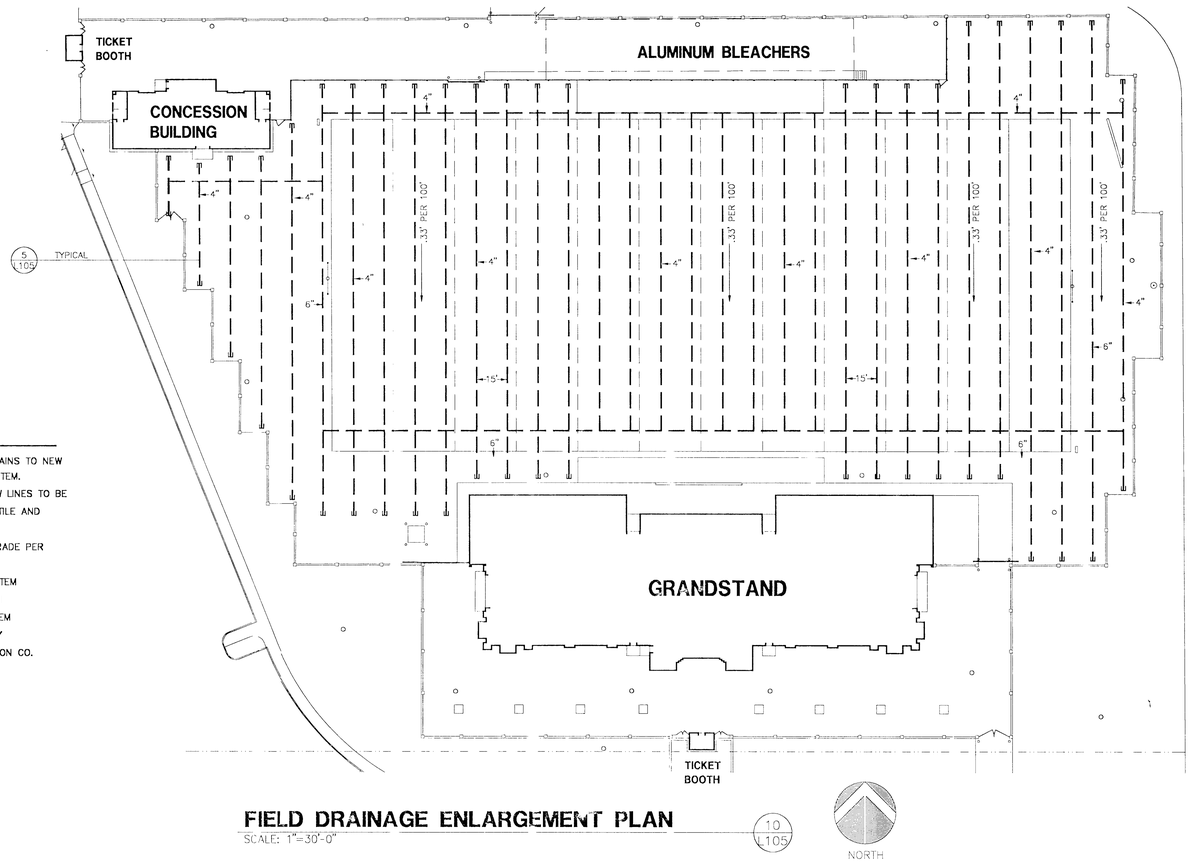
DATE: 31 MAY 1994

drawn by: KJB, SMR

checked by: BWR

L104

SITE DETAILS

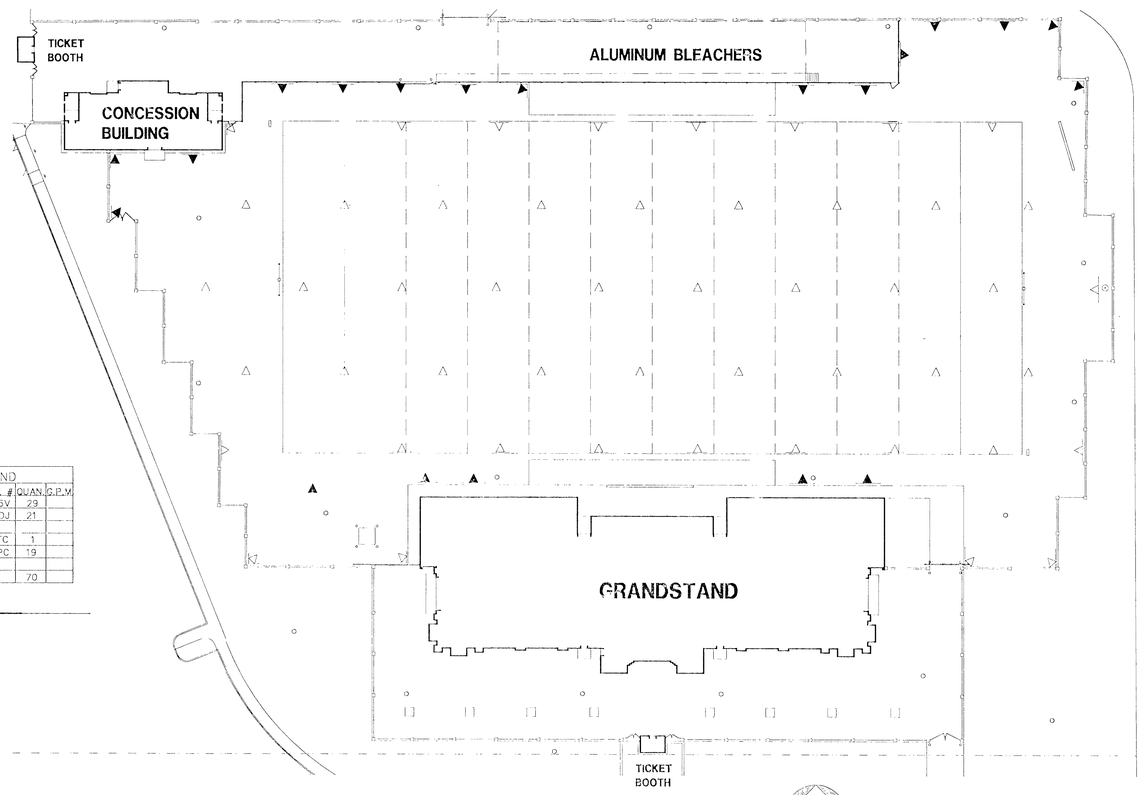


NOTE:

1. TIE ALL FIELD SUBDRAINS TO NEW STORM DRAINAGE SYSTEM.
2. END OF PLATER FLOW LINES TO BE CAPPED WITH GEOTEXTILE AND DUCT TAPE.
3. FIELD IS AT LEVEL GRADE PER SPECIFICATIONS.
4. ROGER BOSSARD SYSTEM FIELD DRAINAGE PLAN AND IRRIGATION SYSTEM DESIGN FURNISHED BY MUELLERMIST IRRIGATION CO.

FIELD DRAINAGE ENLARGEMENT PLAN (10 / L105)

SCALE: 1"=30'-0"



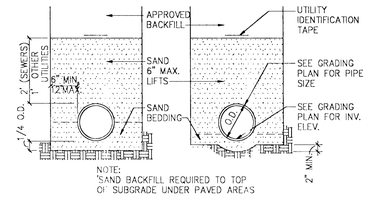
SPRINKLER HEAD LEGEND				
KEY	NAME	MODEL #	QUAN.	G.P.M.
△	HUNTER ROTARY	I40 36V	29	
△	HUNTER ROTARY	I40 ADJ	21	
▲	HUNTER ROTARY	PGP7FC	1	
▲	HUNTER ROTARY	PGP7PC	19	
	TOTAL HEADS		70	

NOTE:

ROGER BOSSARD SYSTEM FIELD DRAINAGE PLAN AND IRRIGATION SYSTEM DESIGN FURNISHED BY MUELLERMIST IRRIGATION CO.

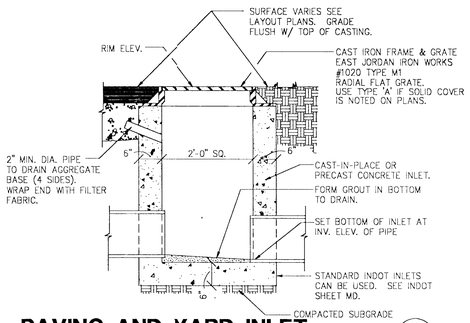
FIELD IRRIGATION ENLARGEMENT PLAN (11 / L105)

SCALE: 1"=30'-0"



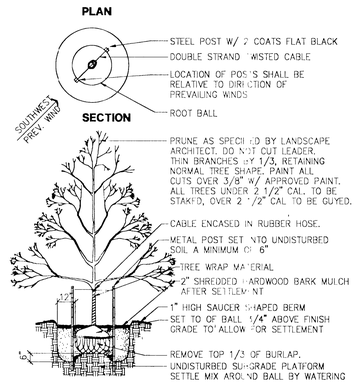
PIPE BEDDING & BACKFILL (6 / L105)

NO SCALE



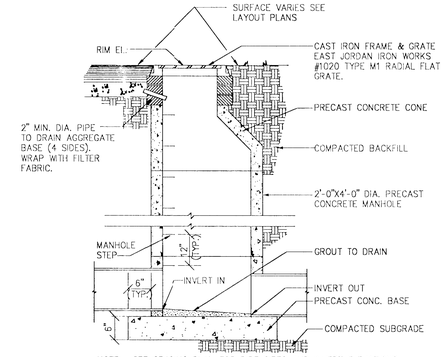
PAVING AND YARD INLET (1 / L105)

NO SCALE



TREE STAKING DETAIL (7 / L105)

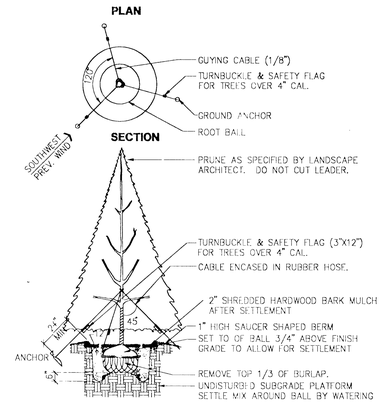
NO SCALE



NOTE: SEE GRADING PLAN FOR PIPE SIZES AND INVERT ELEVATIONS.

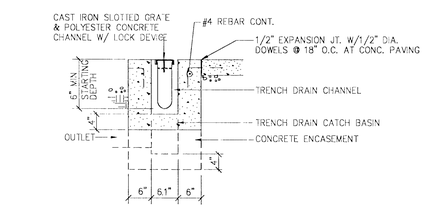
MANHOLE DETAIL (2 / L105)

NO SCALE



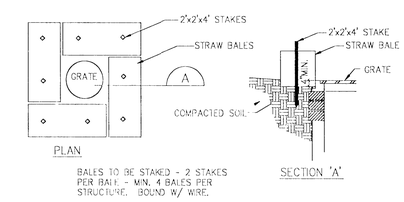
EVERGREEN TREE DETAIL (8 / L105)

NO SCALE



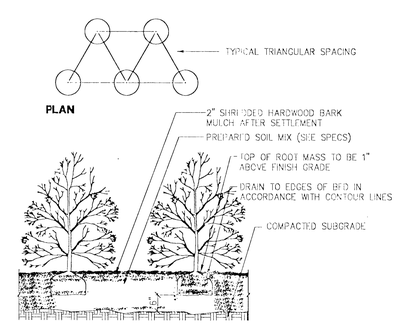
PRECAST TRENCH DRAIN DETAIL (3 / L105)

NO SCALE



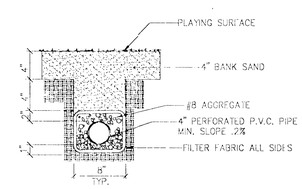
SEDIMENT FILTER DETAIL (4 / L105)

NO SCALE



SHRUB PLANTING DETAIL (9 / L105)

NO SCALE



SUBSOIL DRAIN (5 / L105)

NO SCALE

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: 31 MAY 1994

drawn by: SMR, KJB

checked by: BWR

L105

SITE DETAILS

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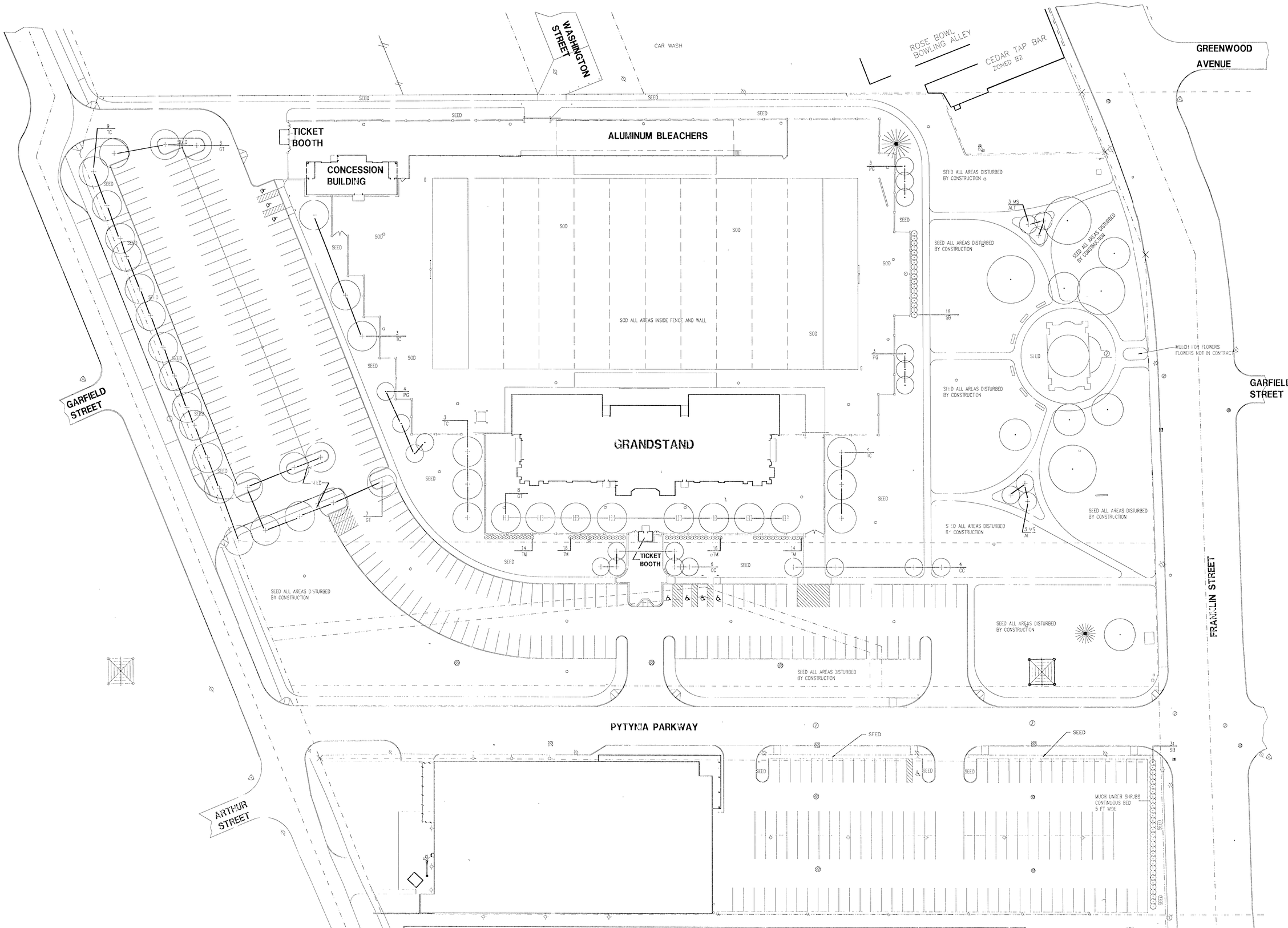

PLANT SCHEDULE

KEY	COMMON NAME	BOTANICAL NAME	HEIGHT	SPREAD	CALIPER	CONDITION	REMARKS	QTY
SB	ANTHONY WATERER SPIREA	SPIREA BUMALDA 'ANTHONY WATERER'	20-24"	24-30"		B & B		49
TM	FLEMER COMPACT YEW	TAXUS MEDIA 'FLEMER COMPACT'	15"	18"		B & B		60
CC	THORNLESS COCKSPUR HAWTHORN	CRATAEGUS CRUS-GALLI 'INERMIS'	8'-10'	4'-5'	1 3/4"	B & B		10
GT	SKYLINE HONEYLOCUST	GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE'	10'-12'	5'-6'	2"	B & B		18
PG	WHITE SPRUCE	PICEA GLAUCA	6'-7'	4'-5'		B & B		10
TC	GLENLEVEN LINDEN	TILIA CORDATA 'GLENLEVEN'	10'-12'	4'-5'	2 1/2"	B & B		15
MS	CENTZAM CRABAPPLE	MALUS 'CENTZAM'	8-9'	4-5'	2"	B & B	ALTERNATE BID	6

NOTE: HEIGHT, CALIPER AND SPREAD ARE MINIMUM ACCEPTABLE SIZES.

NORTH

PLANTING PLAN

SCALE: 1"=50'

KENNETH L. BOWMAN REGISTERED No.7192 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: 31 MAY 1994
drawn by: SMR
checked by: BWR

L106

PLANTING PLAN

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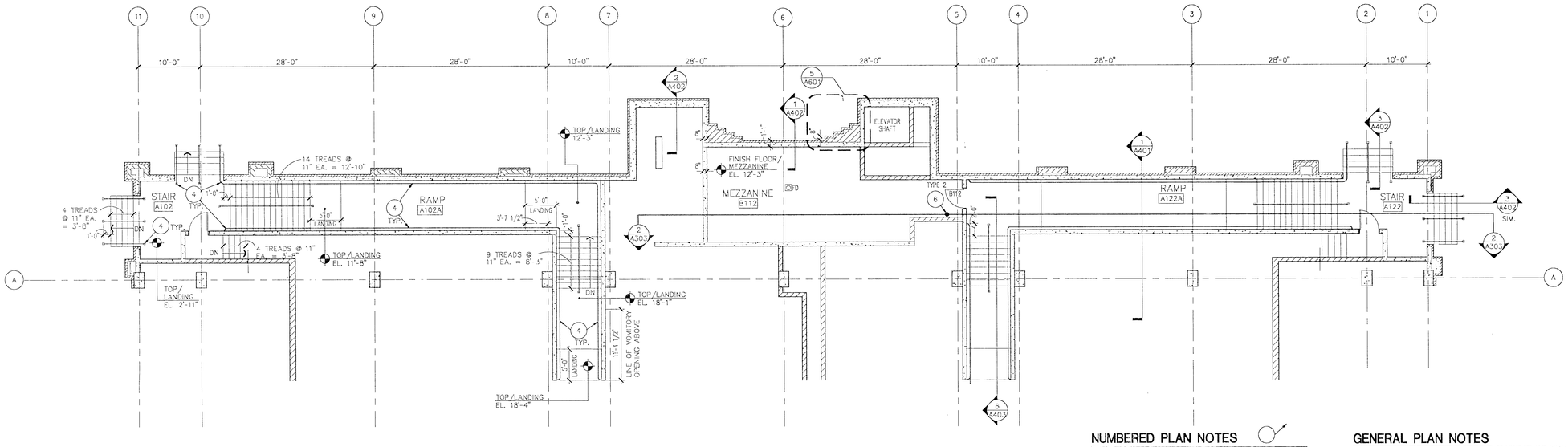


FOOTBALL STADIUM INTERIOR RAMP PLAN

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

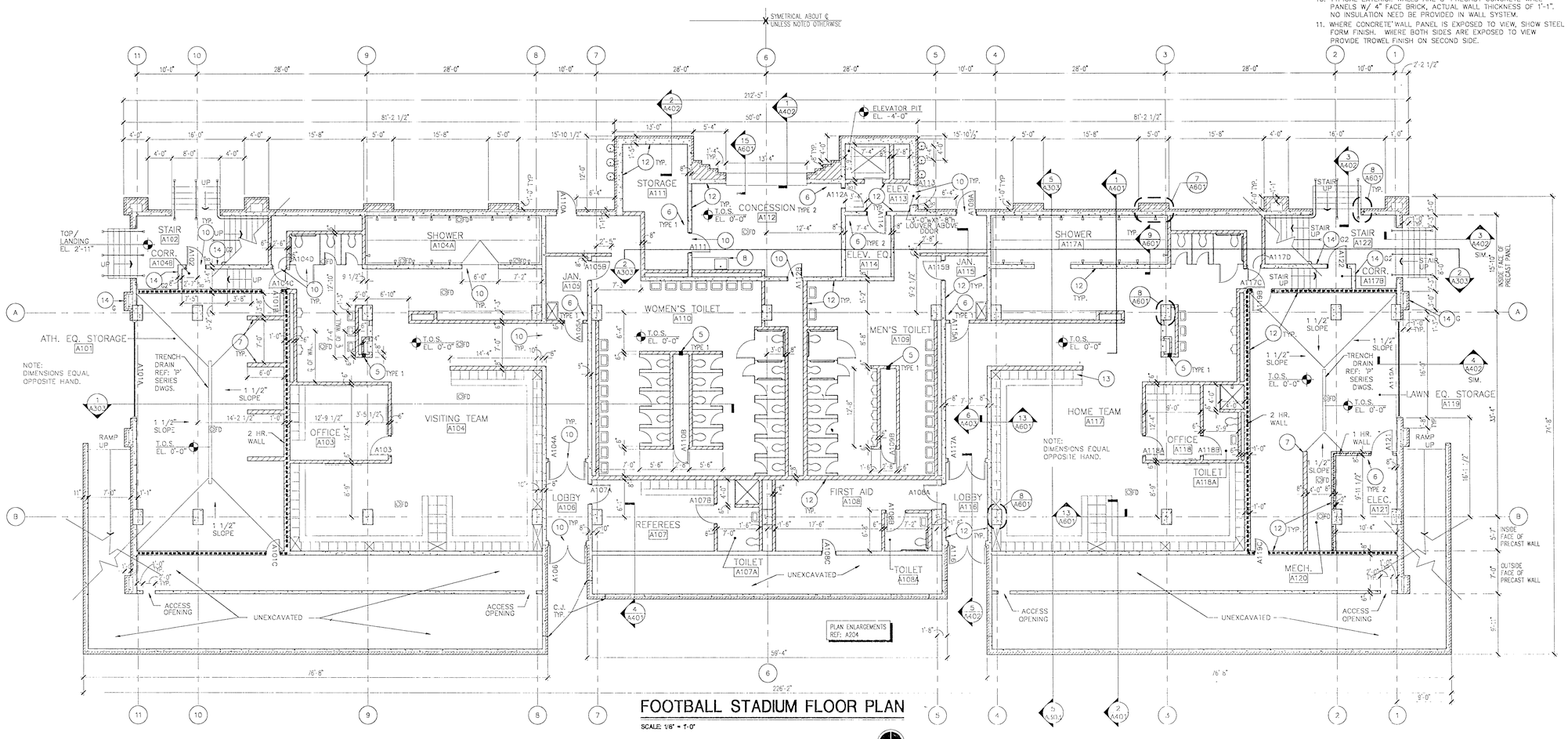
NORTH

NUMBERED PLAN NOTES

1. 12'-0" ALUMINUM FLAGPOLE REF: 10/A601.
2. 18'-0" ALUMINUM FLAGPOLE REF: 10/A601.
3. ALUMINUM GUARDRAIL, REF: SHEET A602.
4. ALUMINUM HANDRAIL, REF: 5/A603.
5. FIRE EXTINGUISHER AND CABINET. REF: 12/A601.
6. FIRE EXTINGUISHER AND HOLDER.
7. NORMAL WEIGHT CMU, GROUT WALL FULL HEIGHT.
8. PLASTIC LAMINATE TOP, REF: 9/A603.
9. ARCHITECTURAL PRECAST PANEL, FINISH TO MATCH RISERS.
10. INDICATES A PRECAST CONCRETE OPENING AT HEAD HGT. 7'-5" A.F.F. THRESHOLD OR SILL TO BE 2'-6" A.F.F.
11. NOT USED
12. SEE DETAIL 10/A603 FOR PERIMETER JOINTS AT WALLS WHICH PENETRATE THE FLOOR SLAB.
13. METAL LOCKERS REF: 13/A601.
14. METAL SIGNAGE SEE SHEET A604.

GENERAL PLAN NOTES

1. ALL WALL THICKNESSES ARE NOMINAL UNLESS INDICATED OTHERWISE.
2. ALL PRECAST STAIR TREADS TO HAVE SWIRL FINISH TO MATCH RISERS UNLESS INDICATED OTHERWISE.
4. WHERE NOT DIMENSIONED, LOCATE HINGE SIDE OF DOOR FRAME 4" FROM WALL PERPENDICULAR TO DOOR FRAME.
5. ALL JOINTS ARE TO BE SEALED TO MAKE THIS BUILDING WATERTIGHT (WHETHER SHOWN OR NOT).
6. REFERENCE STRUCTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS
7. ALL EXPOSED CORNERS OF CMU SHALL BE BULLNOSED.
8. PROVIDE BOND BEAM OR STEEL LINTEL OVER ALL OPENINGS IN MASONRY WALLS. SEE ARCHITECTURAL DOOR AND FRAME SCHEDULE FOR LINTEL SCHEDULE. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MECHANICAL OPENINGS.
9. FOR HEIGHT OF WALLS AND/OR PARTITIONS ABOVE FINISHED CEILINGS, AND WALLS WHICH EXTEND TO THE UNDERSIDE OF RISERS, REF: SHEET A204.
10. TYPICAL EXTERIOR WALLS ARE 8" PRECAST CONCRETE WALL PANELS W/ 4" FACE BRICK, ACTUAL WALL THICKNESS OF 1'-1". NO INSULATION NEED BE PROVIDED IN WALL SYSTEM.
11. WHERE CONCRETE WALL PANEL IS EXPOSED TO VIEW, SHOW STEEL FORM FINISH. WHERE BOTH SIDES ARE EXPOSED TO VIEW PROVIDE TROWEL FINISH ON SECOND SIDE.



FOOTBALL STADIUM FLOOR PLAN

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

NORTH

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8275 ALLISON POINTE TRAIL, POST OFFICE BOX 30428, INDIANAPOLIS, INDIANA 46230, 317/844-0002

LARRY W. PHELPS REGISTERED NO. 3034 STATE OF INDIANA ARCHITECT

CERTIFIED

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: MRM

checked by: GKJ

A201

FLOOR PLANS
FOOTBALL GRANDSTAND

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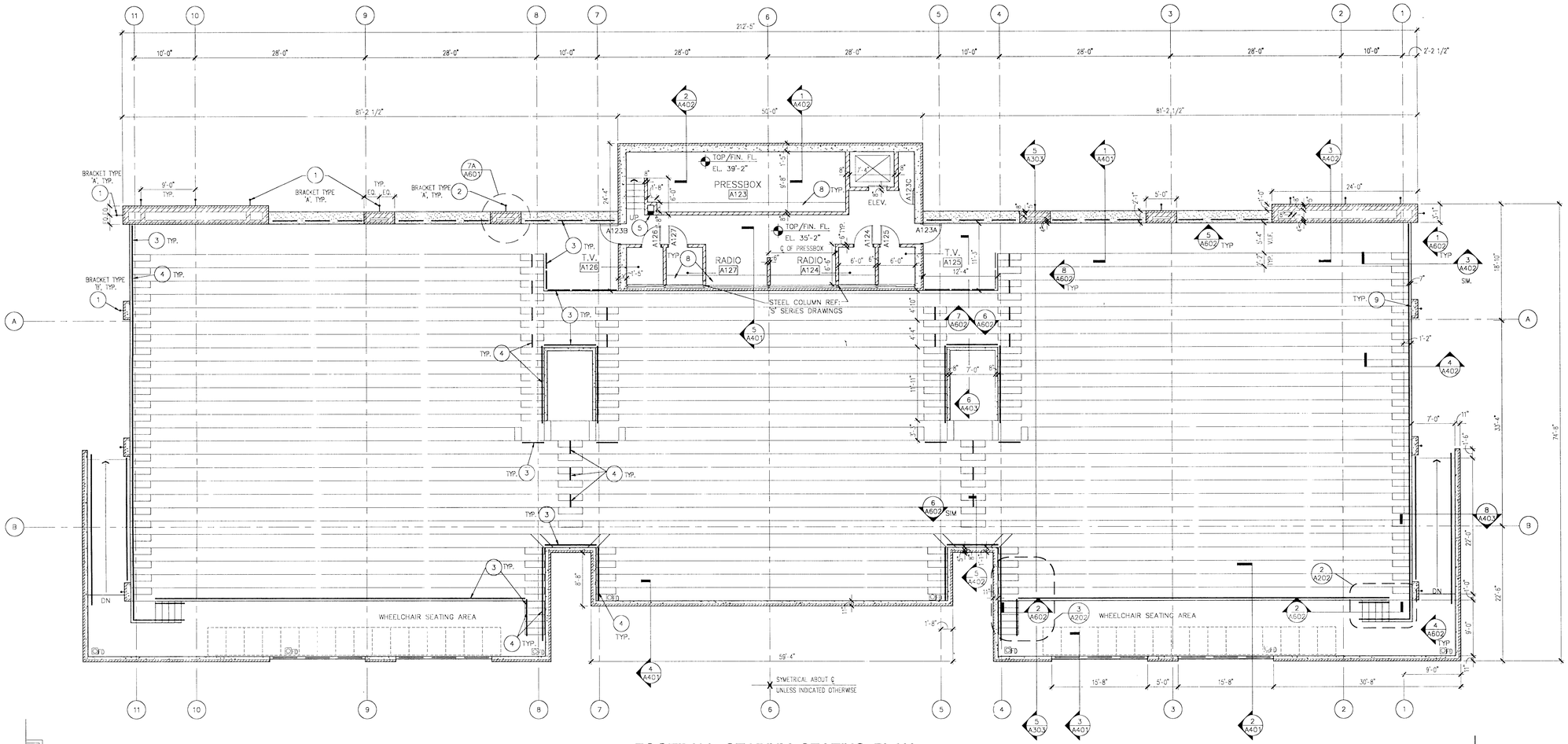
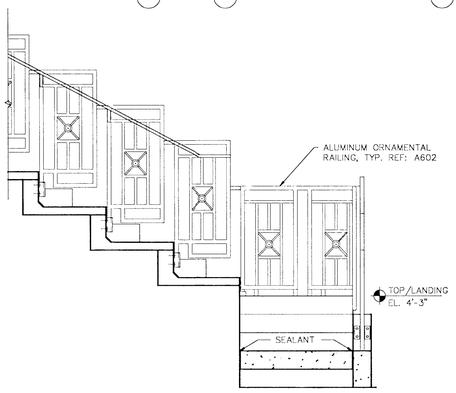


FOOTBALL STADIUM SEATING PLAN

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

NORTH



STAIR SECTION/ELEVATION

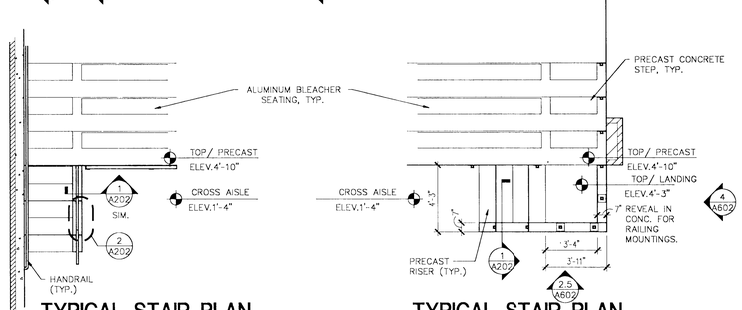
SCALE: 1/4" = 1'-0"

GENERAL PLAN NOTES

1. ALL WALL THICKNESSES ARE NOMINAL UNLESS INDICATED OTHERWISE.
2. ALL PRECAST STAIR TREADS TO HAVE SWIRL FINISH TO MATCH RISERS UNLESS INDICATED OTHERWISE.
4. WHERE NOT DIMENSIONED, LOCATE HINGE SIDE OF DOOR FRAME 4" FROM WALL PERPENDICULAR TO DOOR FRAME.
5. ALL JOINTS ARE TO BE SEALED TO MAKE THIS BUILDING WATERTIGHT (WHETHER SHOWN OR NOT).
6. REFERENCE STRUCTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS
7. ALL EXPOSED CORNERS OF CMU SHALL BE BULLNOSED.
8. PROVIDE BOND BEAM OR STEEL LINTEL OVER ALL OPENINGS IN MASONRY WALLS. SEE ARCHITECTURAL DOOR AND FRAME SCHEDULE FOR LINTEL SCHEDULE. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MECHANICAL OPENINGS.
9. FOR HEIGHT OF WALLS AND/OR PARTITIONS ABOVE FINISHED CEILINGS, AND WALLS WHICH EXTEND TO THE UNDERSIDE OF RISERS, REF: SHEET A204.
10. TYPICAL EXTERIOR WALLS ARE 8" PRECAST CONCRETE WALL PANELS W/ 4" FACE BRICK, ACTUAL WALL THICKNESS OF 1'-1". NO INSULATION NEED BE PROVIDED IN WALL SYSTEM.
11. WHERE CONCRETE WALL PANEL IS EXPOSED TO VIEW, SHOW STEEL FORM FINISH. WHERE BOTH SIDES ARE EXPOSED TO VIEW PROVIDE TROWEL FINISH ON SECOND SIDE.

NUMBERED PLAN NOTES

1. 12'-0" ALUMINUM FLAGPOLE REF: 10/A601.
2. 18'-0" ALUMINUM FLOGPOLE REF: 10/A601.
3. ALUMINUM GUARDRAIL, REF: SHEET A602.
4. ALUMINUM HANDRAIL, REF: 5/A603.
5. FIRE EXTINGUISHER AND CABINET, REF: 12/A601.
6. FIRE EXTINGUISHER AND HOLDER.
7. NORMAL WEIGHT CMU, GROUT WALL FULL HEIGHT.
8. PLASTIC LAMINATE TOP, REF: 9/A603.
9. ARCHITECTURAL PRECAST PANEL, FINISH TO MATCH RISERS.
10. INDICATES A PRECAST CONCRETE OPENING AT HEAD HGT. 7'-5" A.F.F. THRESHOLD OR SILL TO BE -0'-6" A.F.F.
11. NOT USED
12. SEE DETAIL 10/A603 FOR PERIMETER JOINTS AT WALLS WHICH PENETRATE THE FLOOR SLAB.
13. METAL LOCKERS REF: 13/A601.
14. METAL SIGNAGE SEE SHEET A604.

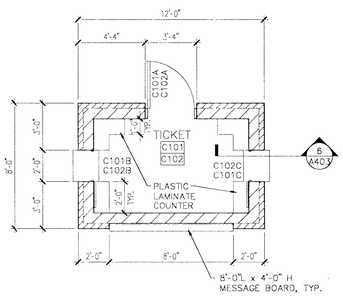


TYPICAL STAIR PLAN

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

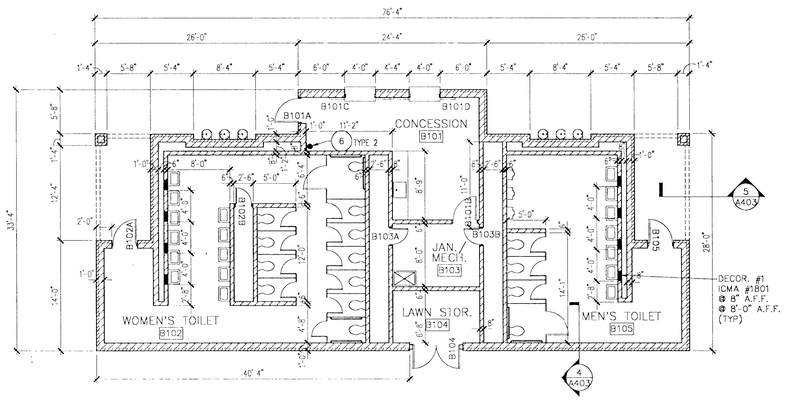
TYPICAL STAIR PLAN

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



TYPICAL TICKET BOOTH

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



VISITOR TOILET & CONCESSION

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

NORTH

NOTE: REF: 3/A204 FOR PLAN ENLARGEMENT

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: MRM

checked by: GKJ

A202

FLOOR PLANS
GRANDSTAND SEATING
VISITOR TOILET/CONCESSION
TICKET BOOTH

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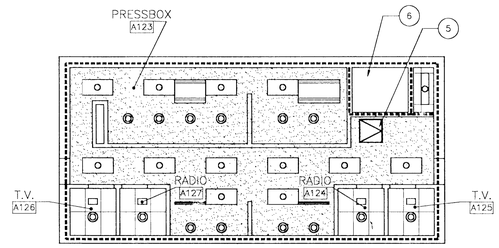
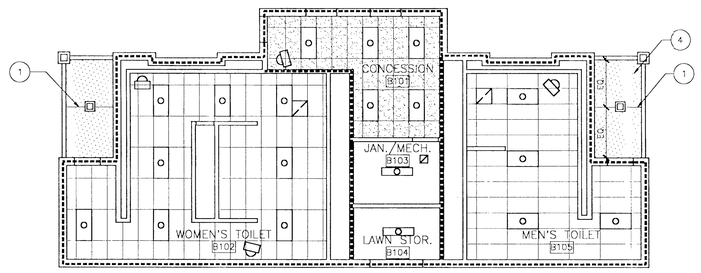


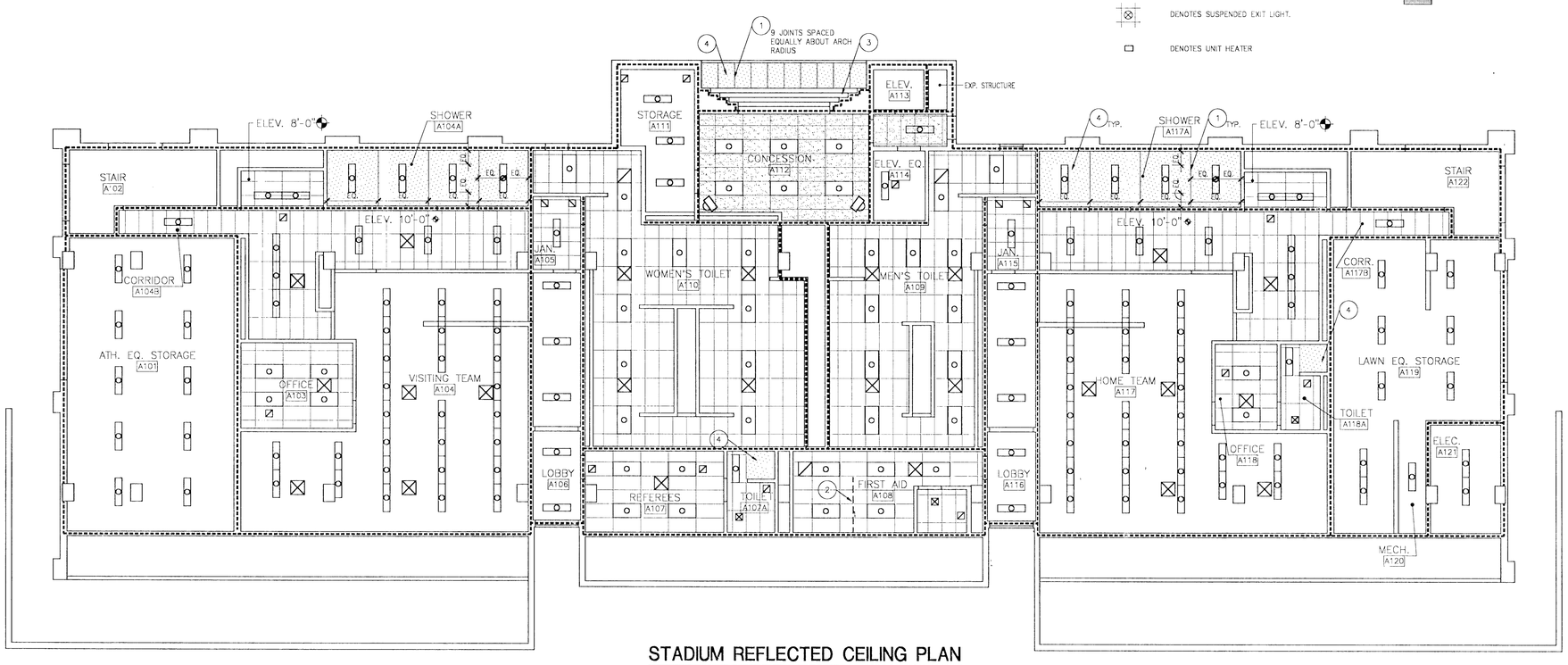
PRESSBOX REFLECTED CEILING PLAN

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



VISITOR TOILET & CONCESSION REFLECTED CEILING PLAN

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



STADIUM REFLECTED CEILING PLAN

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

NORTH

GENERAL NOTES

1. ALL WALLS NOT GOING TO STRUCTURE ABOVE SHALL TERMINATE NO LESS THAN 8" ABOVE FINISH CEILING. AT CMU WALLS, MAINTAIN COURSING AND PROVIDE BOND BEAM AT TOP OF WALLS.
2. PROVIDE SOUND TIGHT SEALS AT ALL WALLS EXTENDING TO STRUCTURE AND AT ALL WALL PENETRATIONS ABOVE CEILING LINE.
3. REFLECTED CEILING PLANS INDICATE GENERAL INTENT FOR SUSPENDED CEILINGS WITH RESPECT TO THE TILE/GRID LAYOUTS, ALIGNMENTS AND SIMILAR FEATURES. VERIFY ALL LAYOUTS IN FIELD AND NOTIFY ARCHITECT IN WRITING OF DISCREPENCIES PRIOR TO STARTING THE WORK.
4. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR TYPES OF DIFFUSERS, LIGHTING FIXTURES, SPEAKERS, ETC. PROVIDE CUTOUTS IN THE TILE AS REQUIRED TO FACILITATE ALL INSTALLATIONS.

NUMBERED PLAN NOTES

1. CONTROL JOINT.
2. CUBICLE CURTAIN PARTITION TRACK
3. BRICK CORBELING, REF. 2/A402
4. CEMENT PLASTER CEILING, SEALANT AT PERIMETER, TYP.
5. ACCESS PANEL 3'-0" x 3'-0"
6. CONCRETE PANEL

REFLECTED CEILING LEGEND

- DENOTES SUSPENDED ACOUSTICAL CEILING SYSTEM.
- DENOTE SUSPENDED VINYL FACED GYPSUM DRYWALL PANEL CEILING SYSTEM.
- DENOTES SUSPENDED GYPSUM DRYWALL CEILING OR BULKHEAD.
- DENOTES SUSPENDED PLASTER CEILING OR BULKHEAD.
- DENOTES RECESSED 1'-0" X 4'-0" FLUORESCENT LIGHT FIXTURE.
- DENOTES RECESSED 2'-0" X 4'-0" FLUORESCENT
- DENOTES FLOURESCENT DOWNLIGHT.
- DENOTES H.I.D. DOWNLIGHT.
- DENOTES INCANDESCENT DOWNLIGHT.
- DENOTES SUSPENDED EXIT LIGHT.
- DENOTES UNIT HEATER
- DENOTES SPEAKER.
- DENOTES SMOKE DETECTOR
- DENOTES FIRE ALARM DEVICE.
- DENOTES MECHANICAL SYSTEM SUPPLY AIR DIFFUSER.
- DENOTES MECHANICAL SYSTEM RETURN OR EXHAUST AIR GRILLE.
- DENOTES MECHANICAL SYSTEM LINEAR SLOT DIFFUSER.
- DENOTES WALL TIGHT TO DECK. SEAL WITH INSULATION.
- DENOTES SUSPENDED UNIT HEATER
- DENOTES CABINET UNIT HEATER

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: MRM/MCW

checked by: GKJ

A203

REFLECTIVE CEILING PLANS

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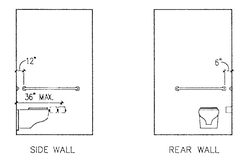
TOILET ACCESSORY SCHEDULE

ITEM	DESCRIPTION	MOUNTING HEIGHTS ADULTS TOILET RMS.	MOUNTING HEIGHTS CHILDREN'S TOILET RMS.	REMARKS	BOBRICK MODEL NO.
T1	TISSUE DISPENSER/ NAPKIN DISPOSAL	38"	-	TWO COMPARTMENT RECESSED	B-3570
T2	TISSUE DISPENSER/ NAPKIN DISPOSAL	34"	-	TWO COMPARTMENT RECESSED	B-35701.6
T3	TISSUE DISPENSER	38"	-	ONE COMPARTMENT TWIN ROLL/SURF.MT.	B-2892
T4	TISSUE DISPENSER	38"	-	TWO COMPARTMENT RECESSED	B-386
T5	TISSUE DISPENSER	38"	-	ONE COMPARTMENT MULTI-ROLL/SURF.MT.	B-288
T5A	TISSUE DISPENSER/ NAPKIN DISPOSAL	34"	-	ONE COMPARTMENT MULTI-ROLL/RECESS.	B-35704.6
T6	MIRROR	40"/BOT.	-	24" W.	B-1556
T7	GRAB BAR	34" ℄	-	42" L.	B-6806
T8	GRAB BAR	34" ℄	-	36" L.	B-6806
T9	SOAP DISPENSER	38"	-	RECESSED	B-4063
T10	NAPKIN/TAMPON VENDOR	38"-40" TO COIN SLOT	-	DOUBLE COIN MECHANISMS	B-43500
T11	TOWEL DISPENSER/ WASTE RECEPTACLE	35" TOP OF HANDLE	-	RECESSED	B-39603
T11A	TOWEL DISPENSER/ WASTE RECEPTACLE	35" TOP OF HANDLE	-	SURFACE MOUNT	B-396034
T12	MOP/BROOM HOLDER	60"	-	W/ UTILITY SHELF	B-224
T13	TOWEL PIN	40" ℄	-		B-677
T14	SHOWER CURTAIN AND ROD	72"	-		B-6047 B-204-1

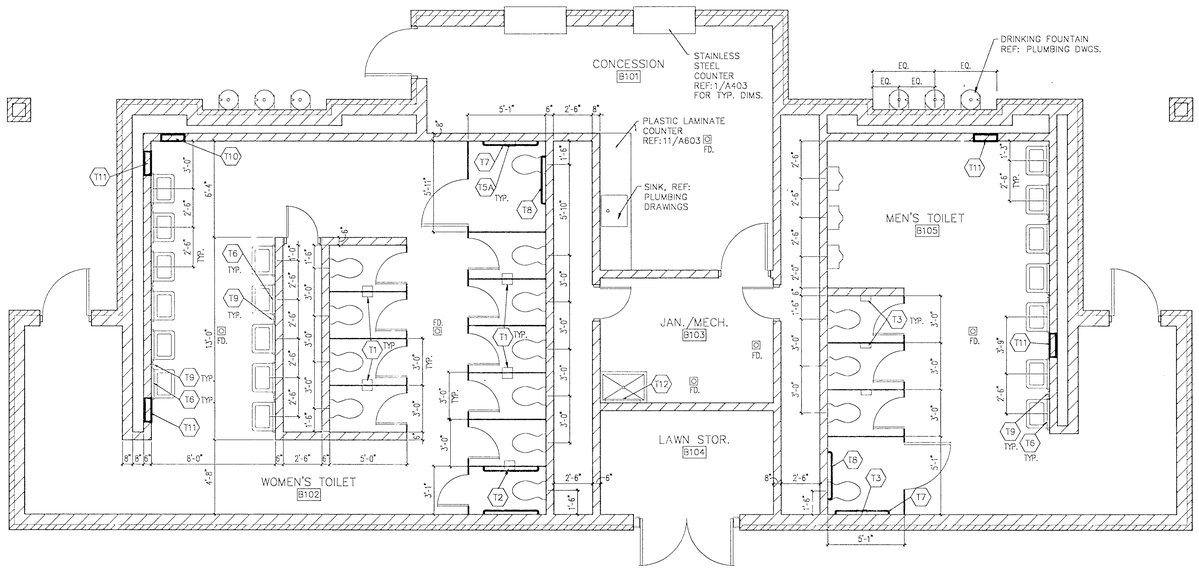
GENERAL TOILET ROOM NOTES

1. REFER TO TYP. STALL ELEVATIONS FOR DIMENSIONS WITHIN STALLS FOR TOILET ACCESSORIES.
2. REFERENCE PLUMBING DRAWINGS FOR FLOOR DRAIN ELEVATIONS.



TYP. STALL ELEVATIONS

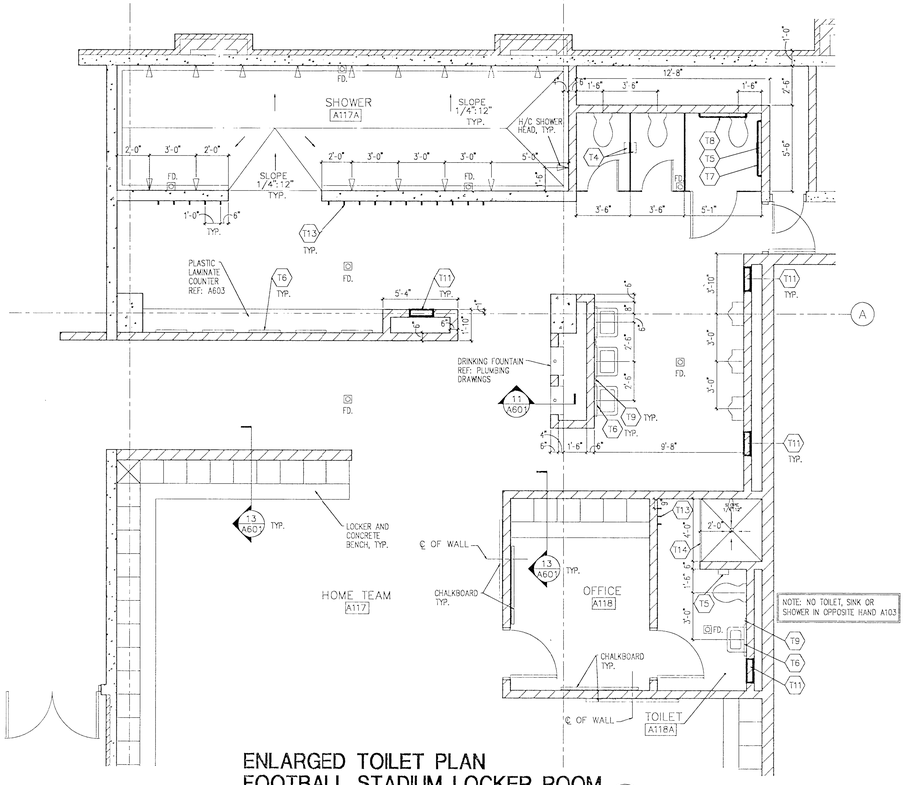
SCALE: 1/4" = 1'-0"



ENLARGED TOILET PLAN VISITOR TOILET/CONCESSION

3 A204

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

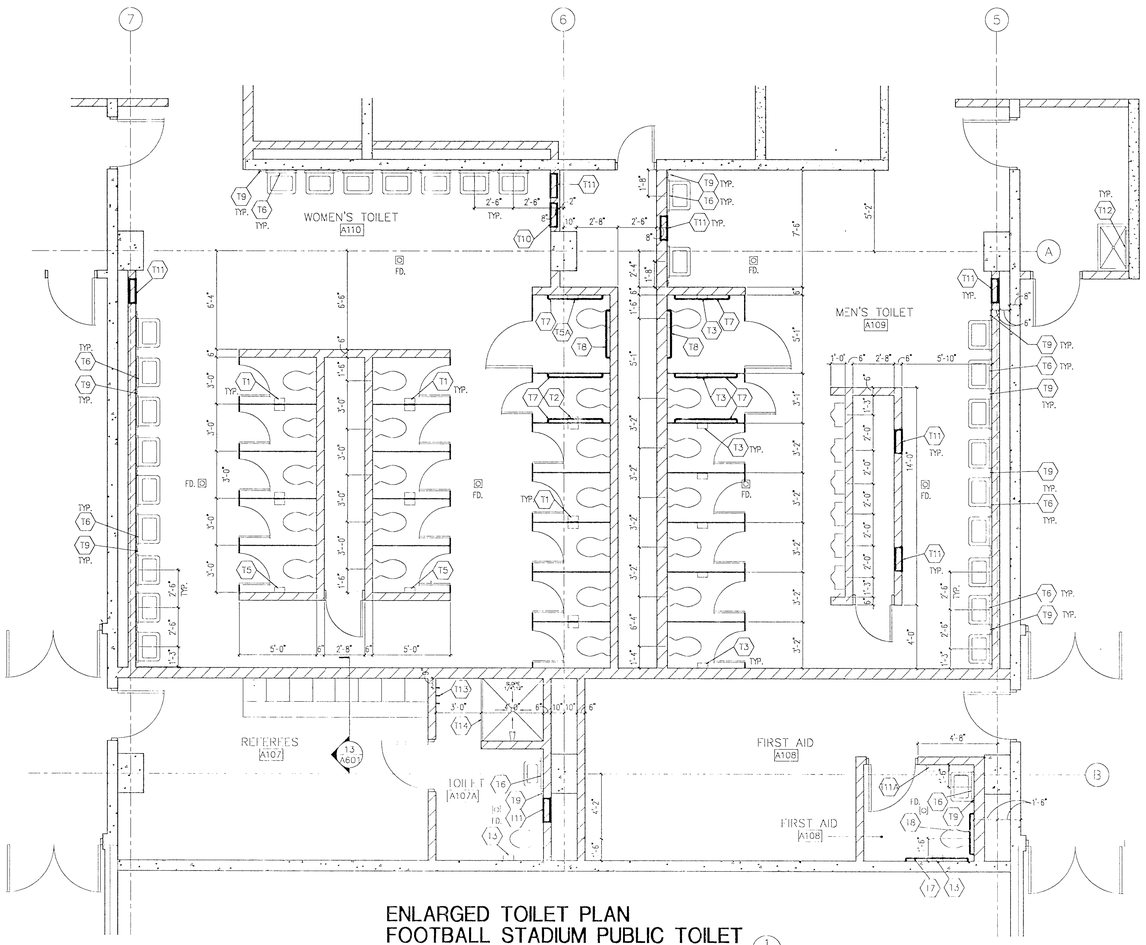


ENLARGED TOILET PLAN FOOTBALL STADIUM LOCKER ROOM

2 A204

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

NOTE: OPP. HAND A104 AND A104A



ENLARGED TOILET PLAN FOOTBALL STADIUM PUBLIC TOILET

1 A204

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

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: MRM, PAM

checked by: GKJ

A204

ENLARGED TOILET PLANS

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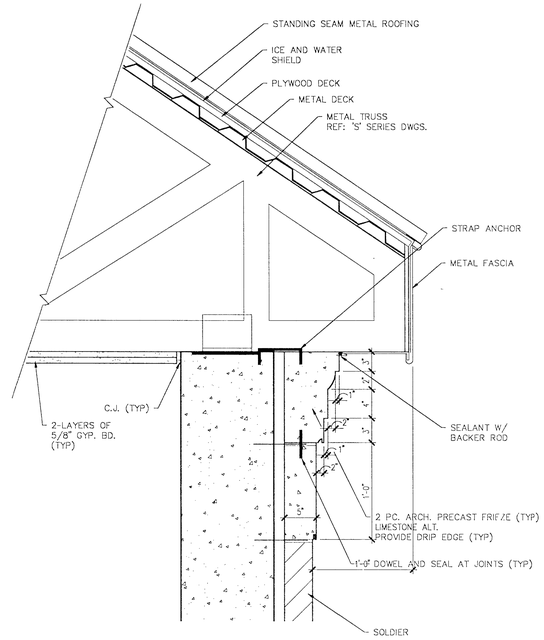
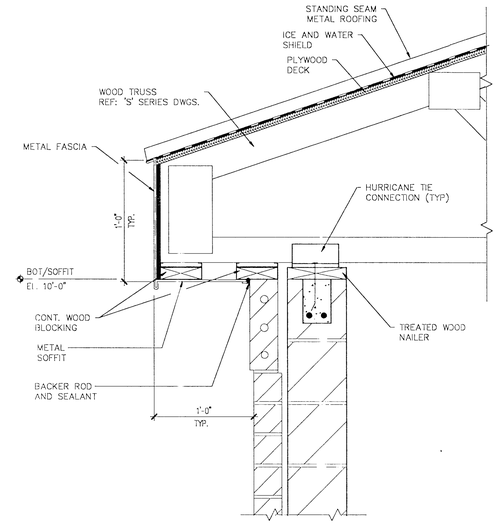


SOFFIT DETAIL

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

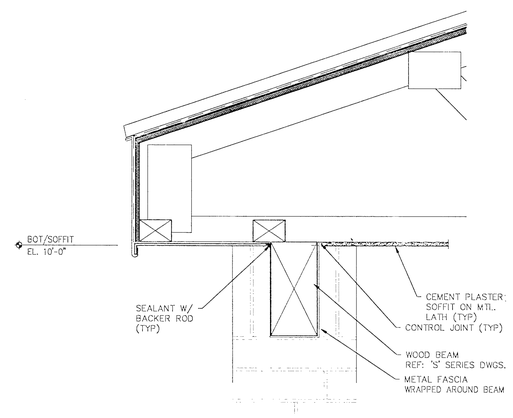
7 / A205



TYPICAL SOFFIT DETAIL

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

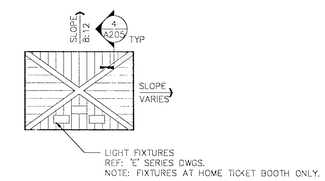
4 / A205



SOFFIT DETAIL

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

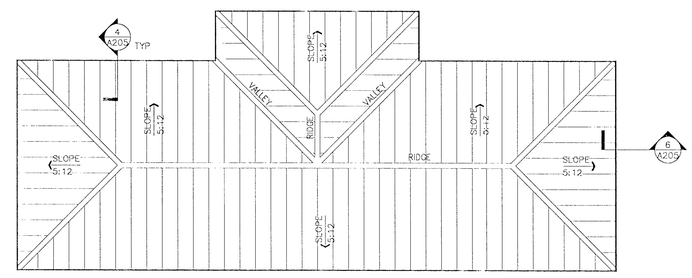
6 / A205



TYPICAL TICKET BOOTH ROOF PLAN

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

3 / A205

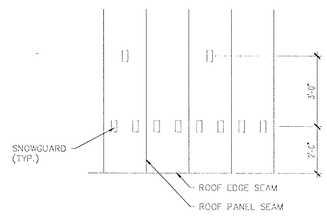


VISITOR TOILET/CONCESSION ROOF PLAN

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

NORTH

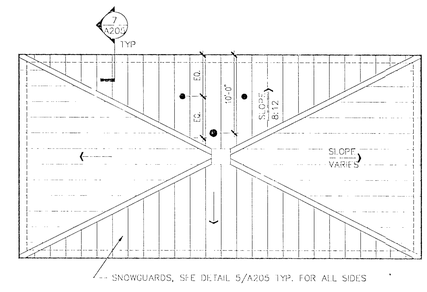
2 / A205



SNOW GUARD DETAIL

SCALE: 3/4" = 1'-0"

5 / A205



NOTE: ALL ROOF MATERIALS TO BE STANDING SEAM METAL ROOF W/ ALUMINUM FASCIA & SOFFITS.

FOOTBALL STADIUM ROOF PLAN

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

NORTH

1 / A205

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: RM/JKG/MCW

checked by: GKJ

A205

ROOF PLANS & ROOF DETAILS

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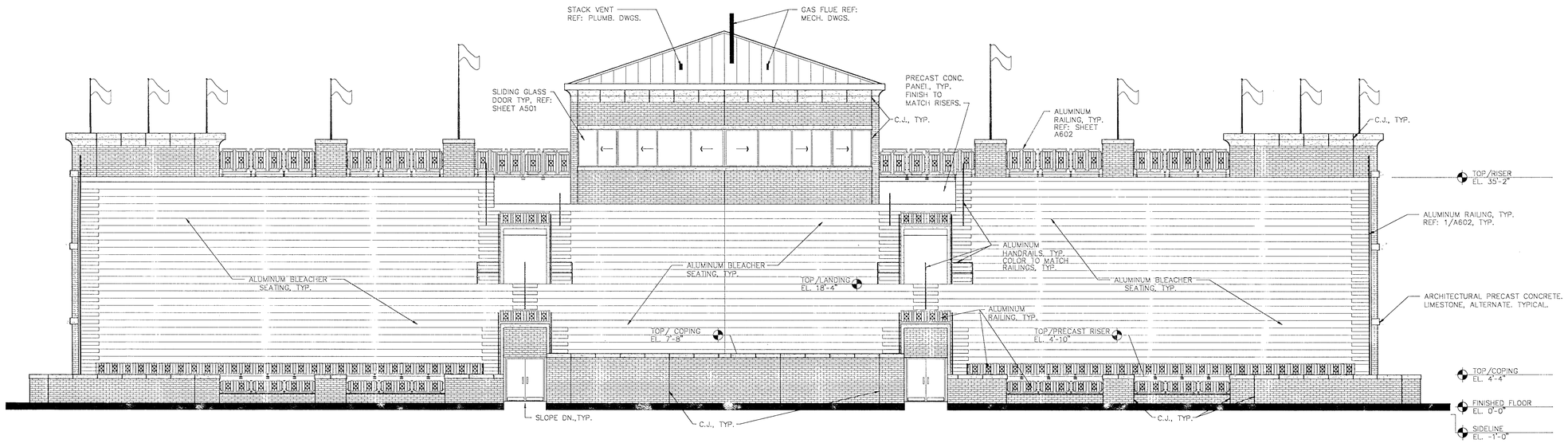
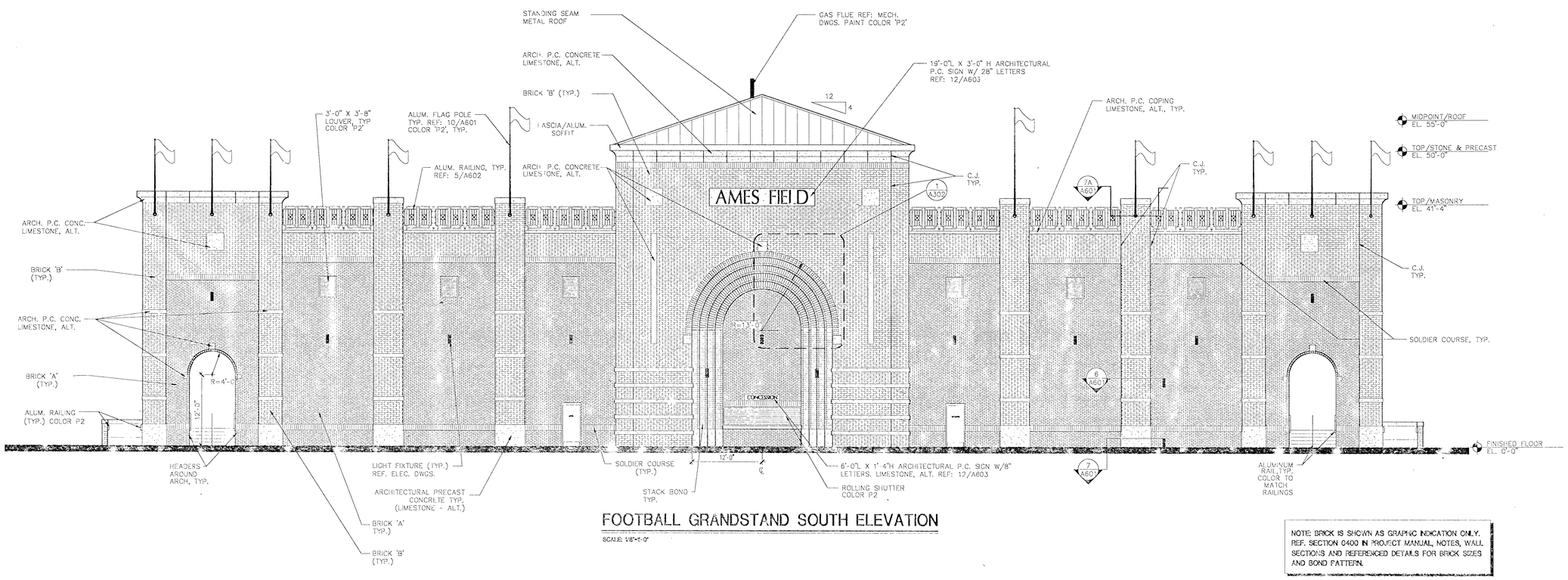


FOOTBALL GRANDSTAND NORTH ELEVATION

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



FOOTBALL GRANDSTAND SOUTH ELEVATION

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

NOTE: BRICK IS SHOWN AS GRAPHIC INDICATION ONLY. REF. SECTION 0400 IN PROJECT MANUAL, NOTES, WALL SECTIONS AND REFERENCED DETAILS FOR BRICK SIZES AND BOND PATTERN.

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REGISTERED No. 3034
STATE OF INDIANA
ARCHITECT
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REVISIONS

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PROJECT NO. 93052

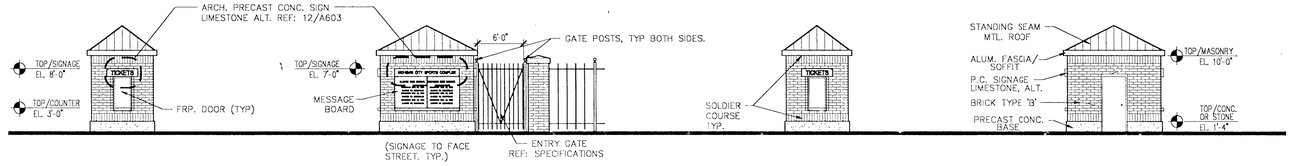
DATE: MAY 31, 1994

drawn by: MRM

checked by: GKJ

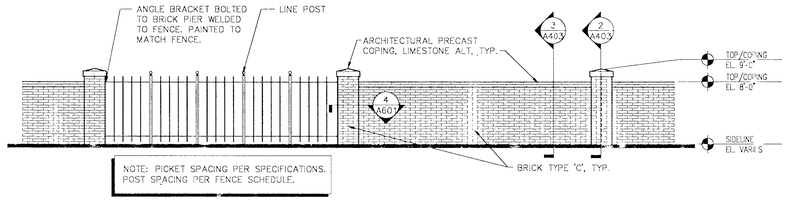
A301

ELEVATIONS
FOOTBALL GRANDSTAND



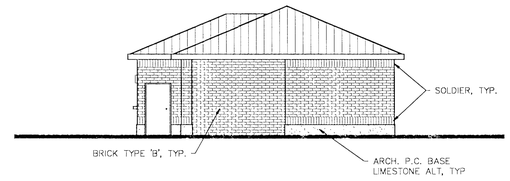
TYPICAL TICKET BOOTH ELEVATIONS

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



SITE WALL AND FENCE ELEVATION

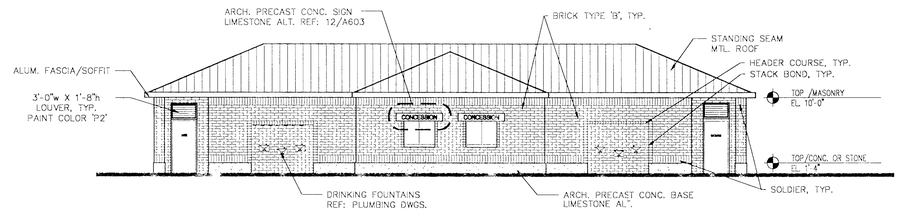
SCALE: 1/8" = 1'-0"



VISITOR TOILET AND CONCESSION WEST ELEVATION

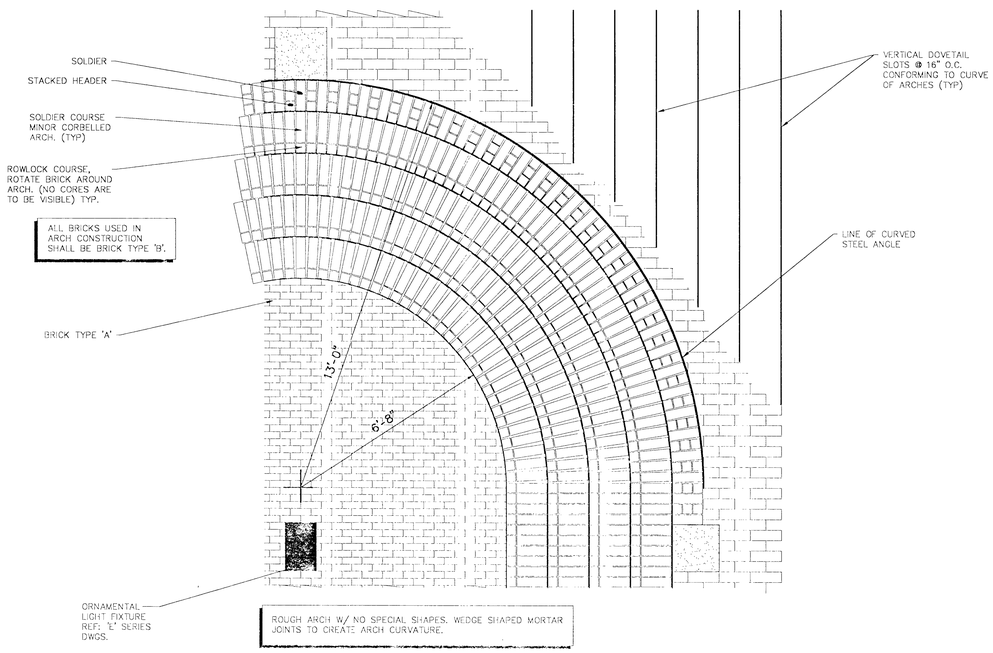
SCALE: 1/8" = 1'-0"

(NOTE: EAST ELEVATION OPPOSITE HAND)



VISITOR TOILET & CONCESSION NORTH ELEVATION

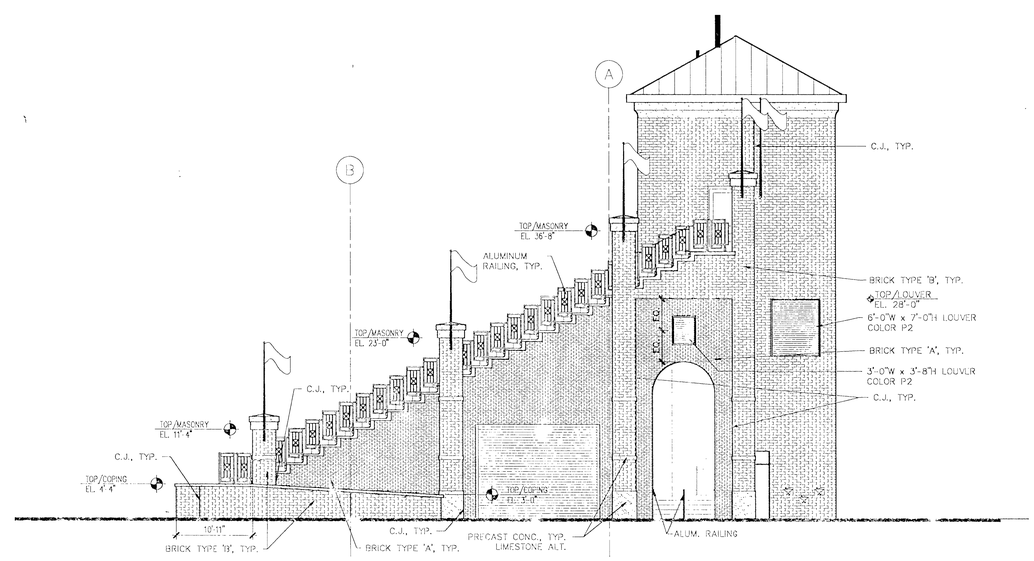
SCALE: 1/8" = 1'-0"



ARCH ENLARGEMENT DETAIL

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

1
A302



FOOTBALL GRANDSTAND WEST ELEVATION

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

(NOTE: EAST ELEVATION OPPOSITE HAND)

NOTE: BRICK IS SHOWN AS GRAPHIC INDICATION ONLY. REF. SECTION 9400 IN PROJECT MANUAL. NOTES, WALL SECTIONS AND REFERENCED DETAILS FOR BRICK SIZES AND BOND PATTERN.

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

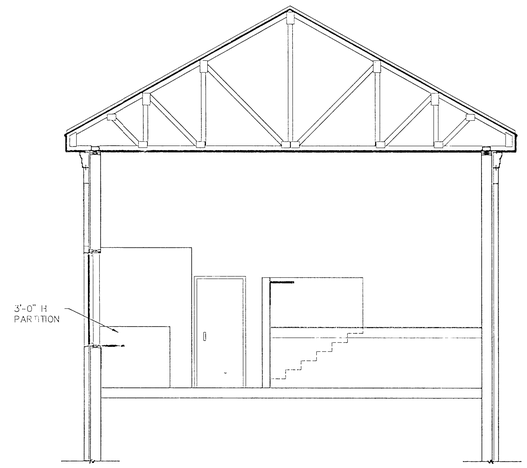
DATE: MAY 31, 1994

drawn by: MRM,MCW,PAM

checked by: CKJ

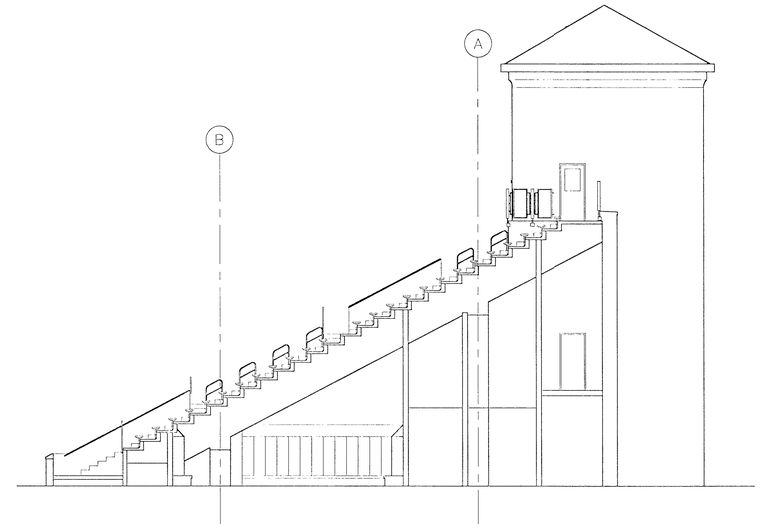
A302

ELEVATIONS
FOOTBALL GRANDSTAND
VISITOR TOILET/CONCESSION
SITE WALL / FENCE



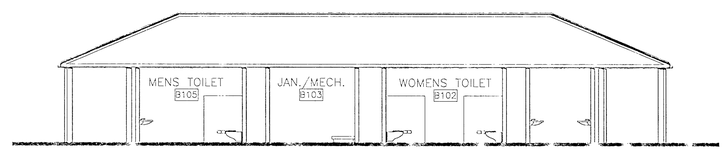
SECTION THROUGH FOOTBALL PRESSBOX (6 / A303)

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



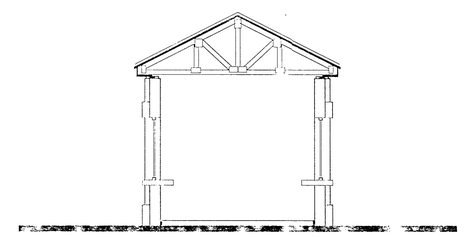
FOOTBALL GRANDSTAND SECTION (5 / A303)

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



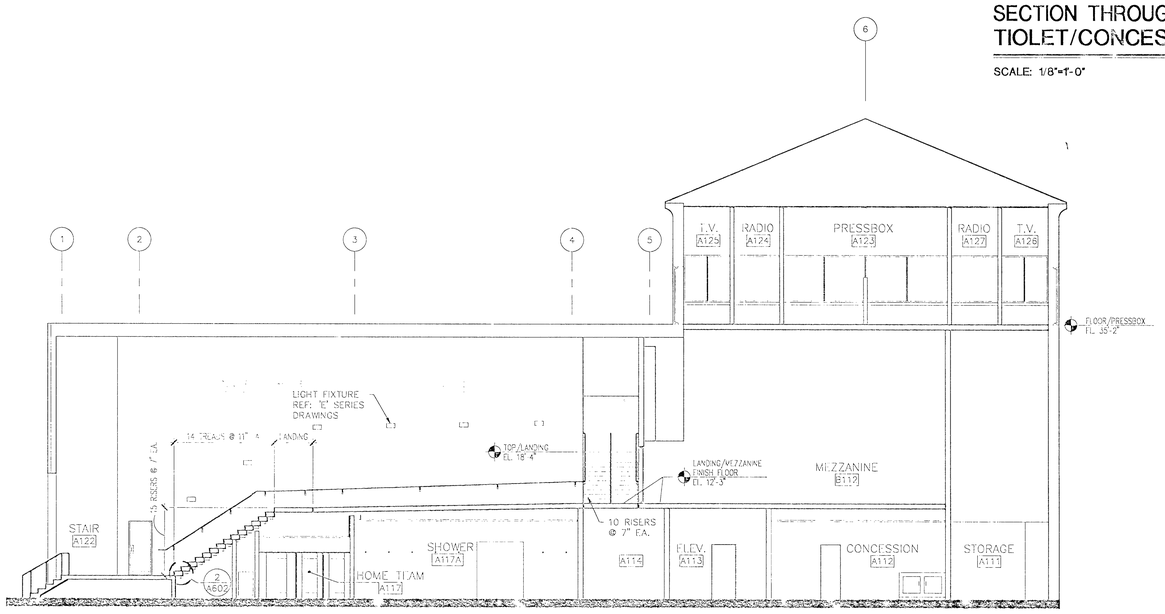
SECTION THROUGH VISITOR TIOLET/CONCESSION (4 / A303)

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



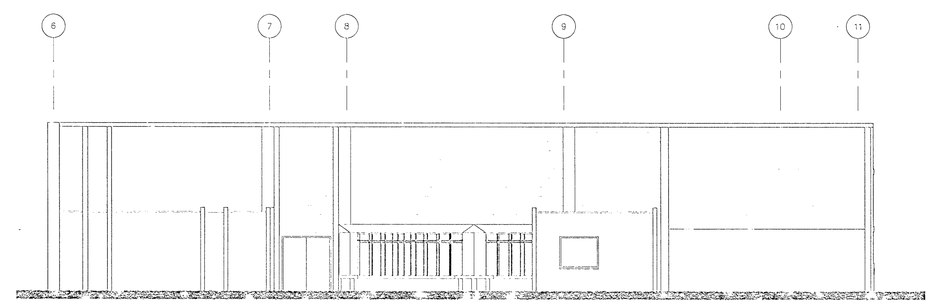
TYP. SECTION THROUGH TICKET BOOTH (3 / A303)

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



LONGITUDINAL SECTION THROUGH FOOTBALL GRANDSTAND (2 / A303)

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



LONGITUDINAL SECTION THROUGH FOOTBALL GRANDSTAND (1 / A303)

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

LARRY W. PHELPS
REGISTERED No. 3034
STATE OF INDIANA
ARCHITECT

CERTIFIED

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AMES FIELD

MICHIGAN CITY, INDIANA

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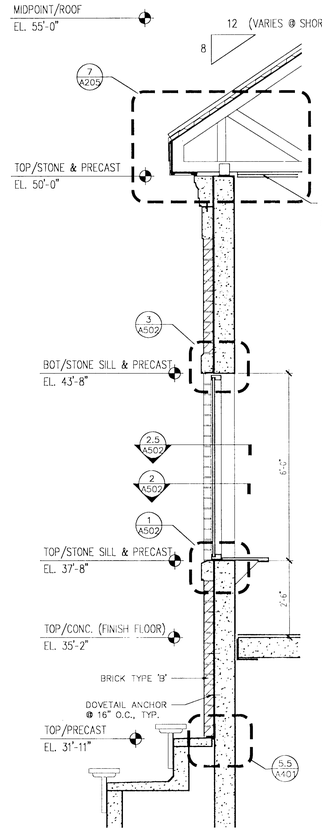
checked by: GKJ

A303

BUILDING SECTIONS

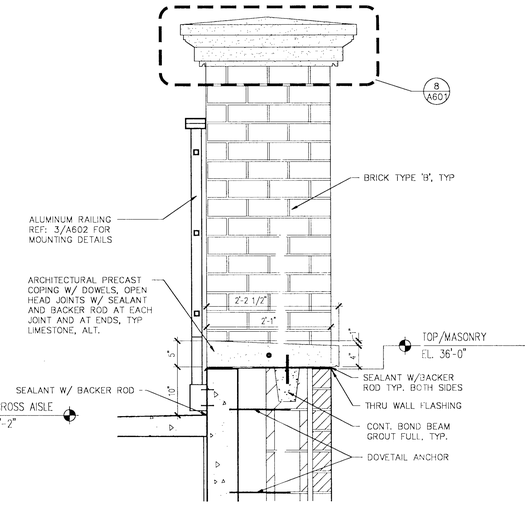
F:\ARCHITECT\93052\3052A303 05-30-94 21:04:29



WALL SECTION @ FOOTBALL PRESSBOX

5 A401

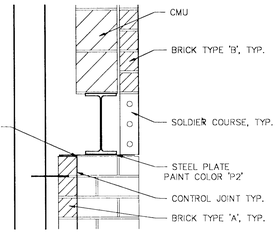
SCALE: 1/2"=1'-0"



RAILING DETAIL

9 A401

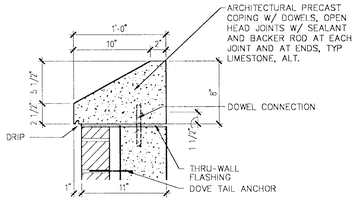
SCALE: 1" = 1'-0"



SOFFIT DETAIL

8 A401

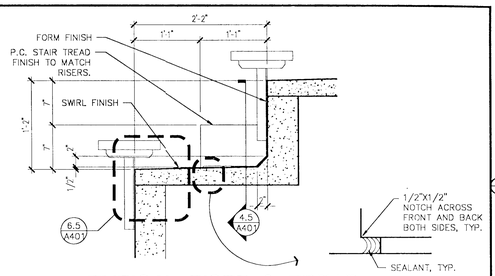
SCALE: 1" =1'-0"



TYPICAL COPING DETAIL

7 A401

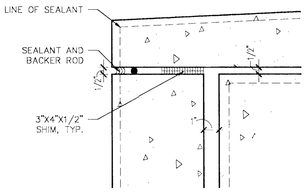
SCALE: 1 1/2" = 1'-0"



TYPICAL RISER & TREAD

6 A401

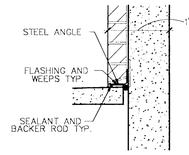
SCALE: 1" = 1'-0"



DETAIL

6.5 A401

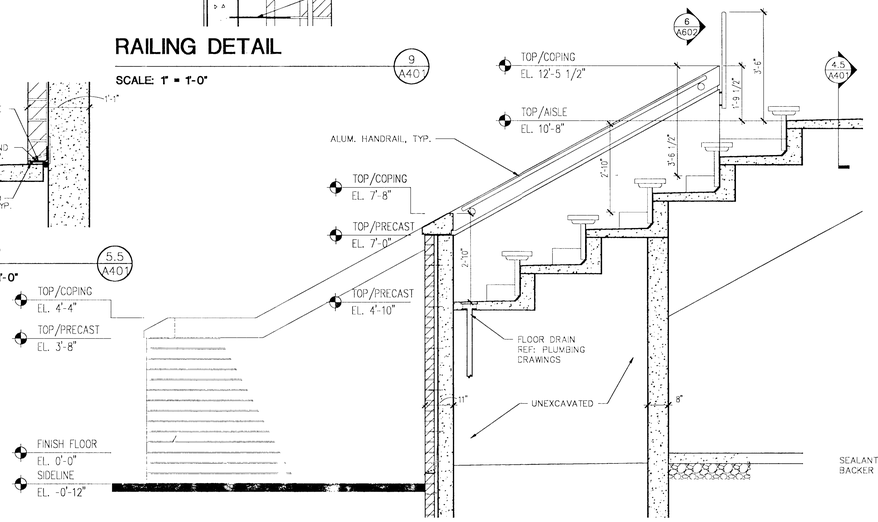
SCALE: 3" = 1'-0"



DETAIL

5.5 A401

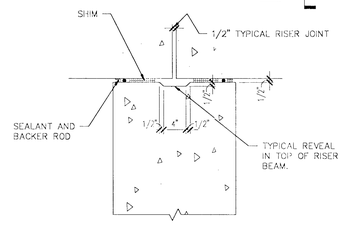
SCALE: 1" = 1'-0"



WALL SECTION @ FOOTBALL GRANDSTAND

4 A401

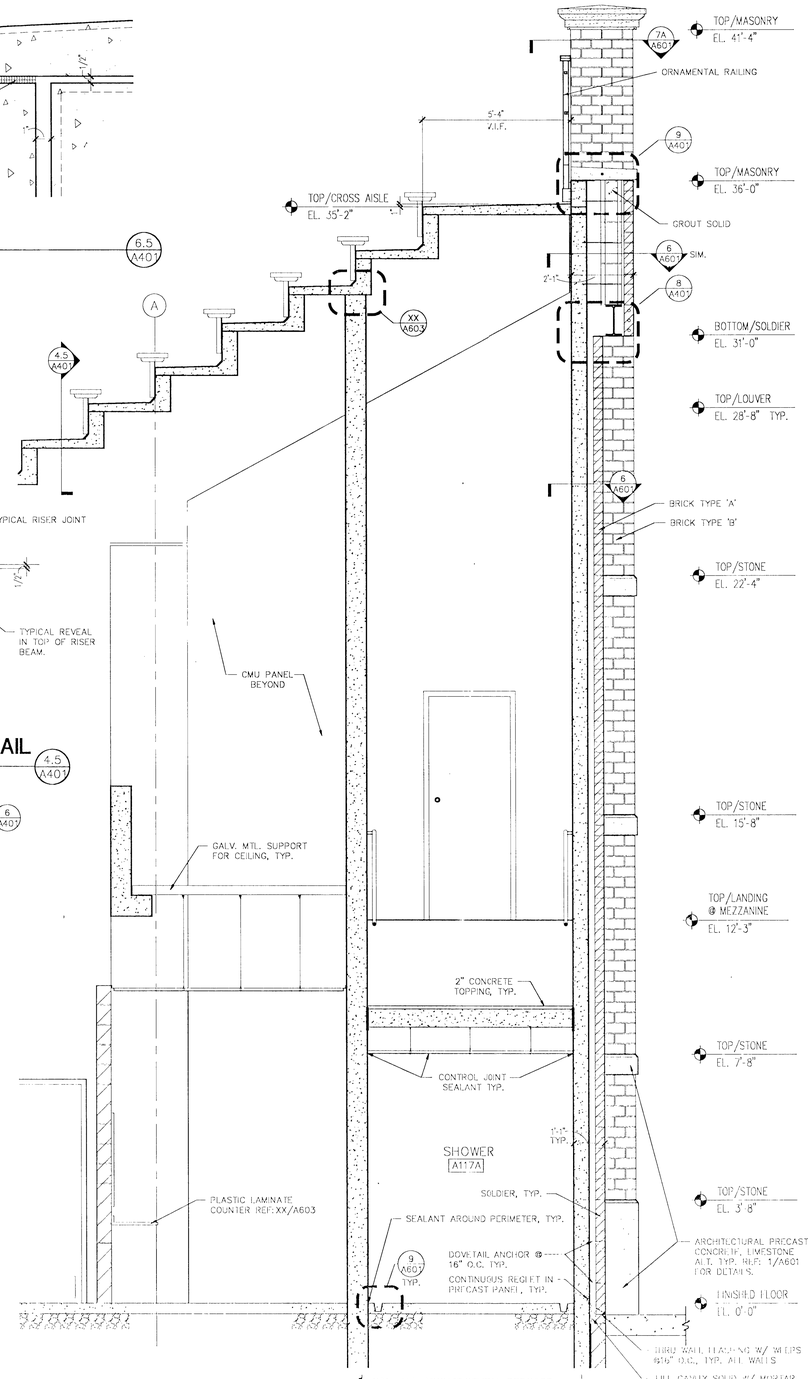
SCALE: 1/2"=1'-0"

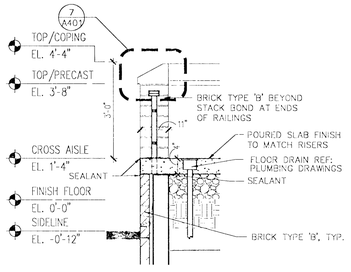


RISER BEAM DETAIL

4.5 A401

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

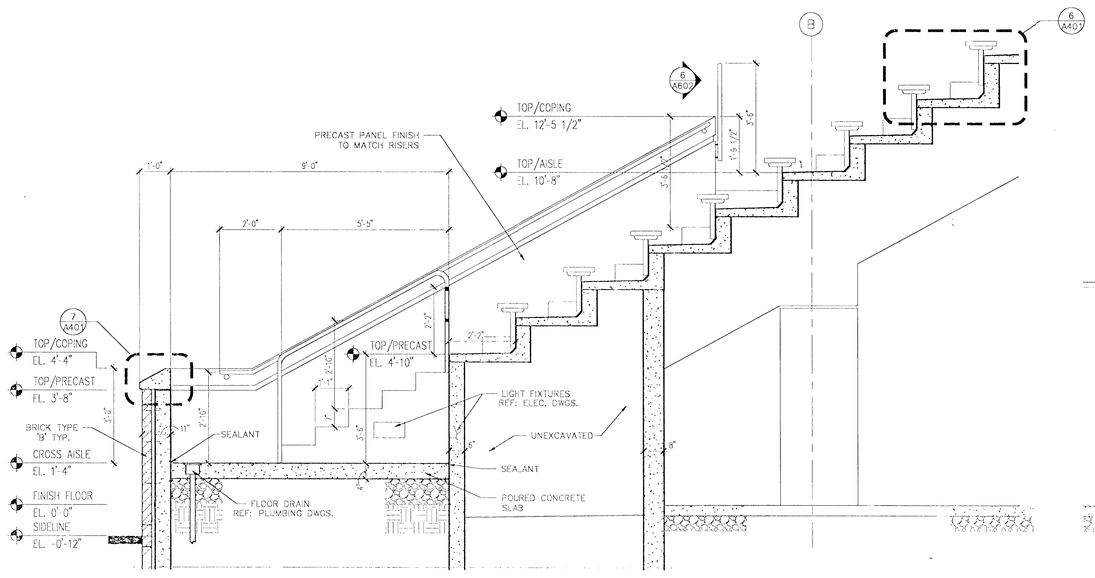




PARTIAL WALL SECTION @ FOOTBALL GRANDSTAND

3 A401

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



WALL SECTION @ FOOTBALL GRANDSTAND

2 A401

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

NOTE: ALL ARCHITECTURAL PRECAST CONCRETE TO BE LIMESTONE ALTERNATE UNLESS NOTED OTHERWISE.

WALL SECTION @ FOOTBALL GRANDSTAND

1 A401

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

LARRY W. FIELDS REGISTERED NO. 3034 STATE OF INDIANA ARCHITECT

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8765 NORTH STATE ROAD 37, POST OFFICE BOX 2148, BLOOMINGTON, INDIANA 47402, 812/876-2020
8270 ALLISON POINTE TRAIL, POST OFFICE BOX 50428, INDIANAPOLIS, INDIANA 46250, 317/842-0300

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: MRM

checked by: GJ

A401

WALL SECTIONS FOOTBALL GRANDSTAND

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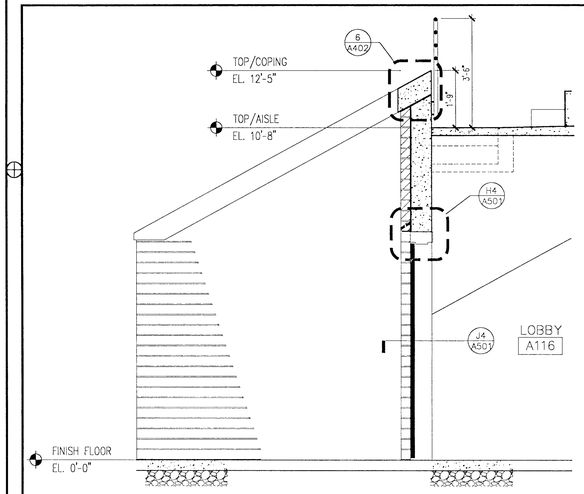
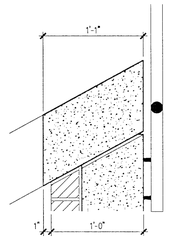


WALL SECTION @ FOOTBALL GRANDSTAND

5 A402

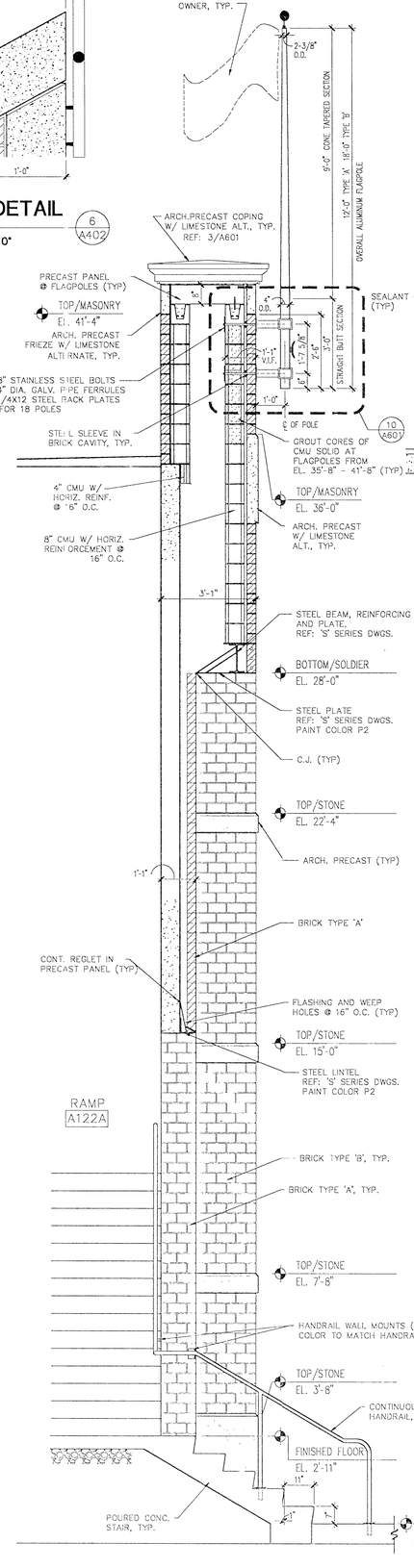
SCALE: 1/2"=1'-0"

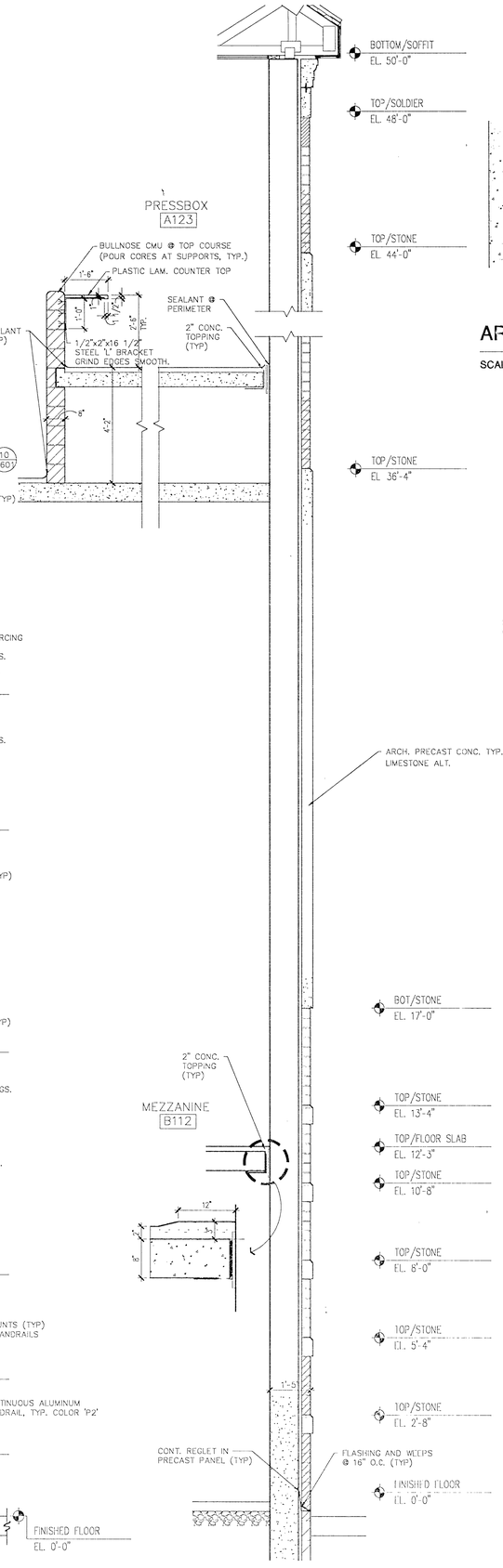


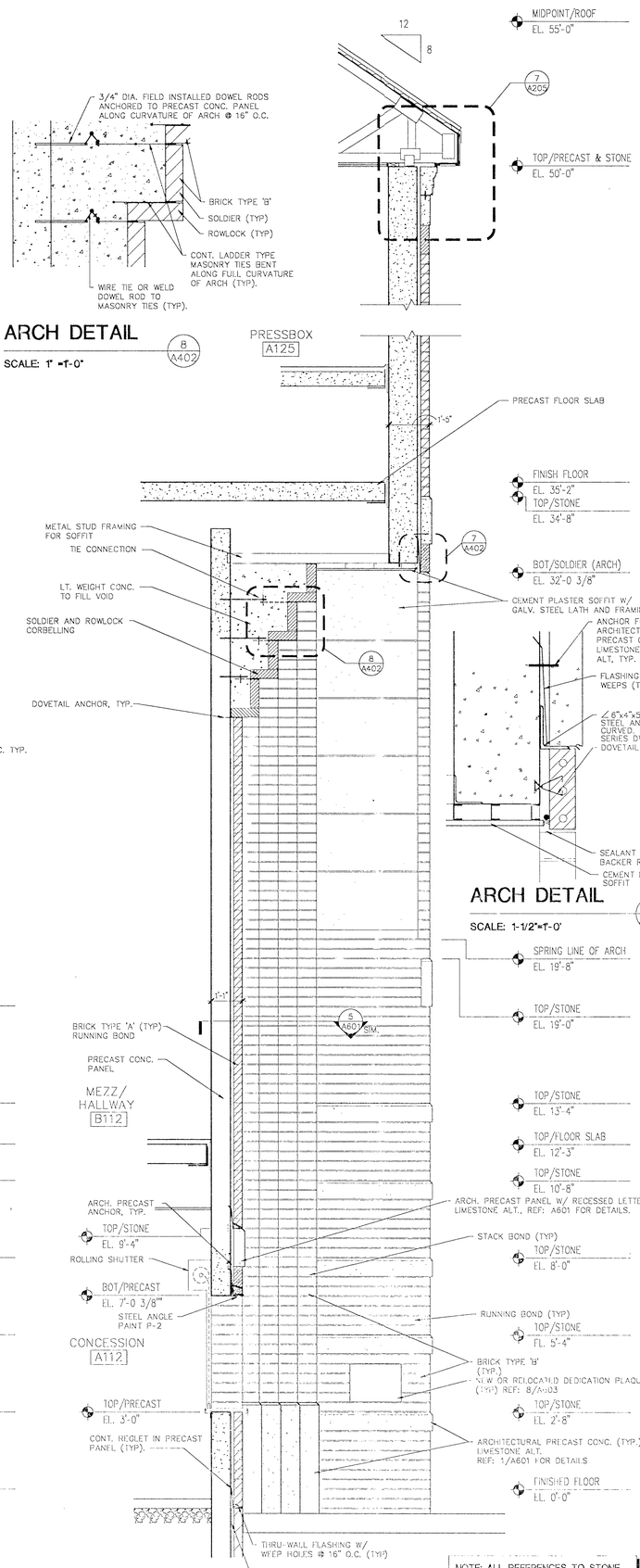
COPING DETAIL

6 A402

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







ARCH DETAIL

8 A402

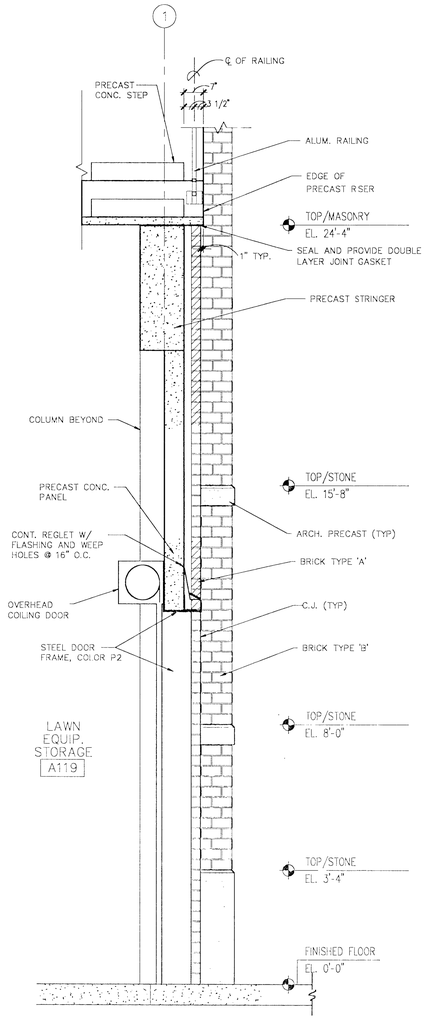
SCALE: 1" =1'-0"

ARCH DETAIL

7 A402

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

NOTE: ALL REFERENCES TO STONE INDICATES ARCHITECTURAL PRECAST CONCRETE BASE BID. LIMESTONE ALTERNATE.



WALL SECTION FOOTBALL STADIUM

4 A402

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

WALL SECTION FOOTBALL STADIUM

3 A402

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

WALL SECTION FOOTBALL STADIUM

2 A402

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

WALL SECTION FOOTBALL STADIUM ARCH

1 A402

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

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LARRY W. HEWES REGISTERED NO. 3034 STATE OF INDIANA ARCHITECT

CERTIFIED

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: MRM

checked by: GKJ

A402

WALL SECTIONS FOOTBALL GRANDSTAND

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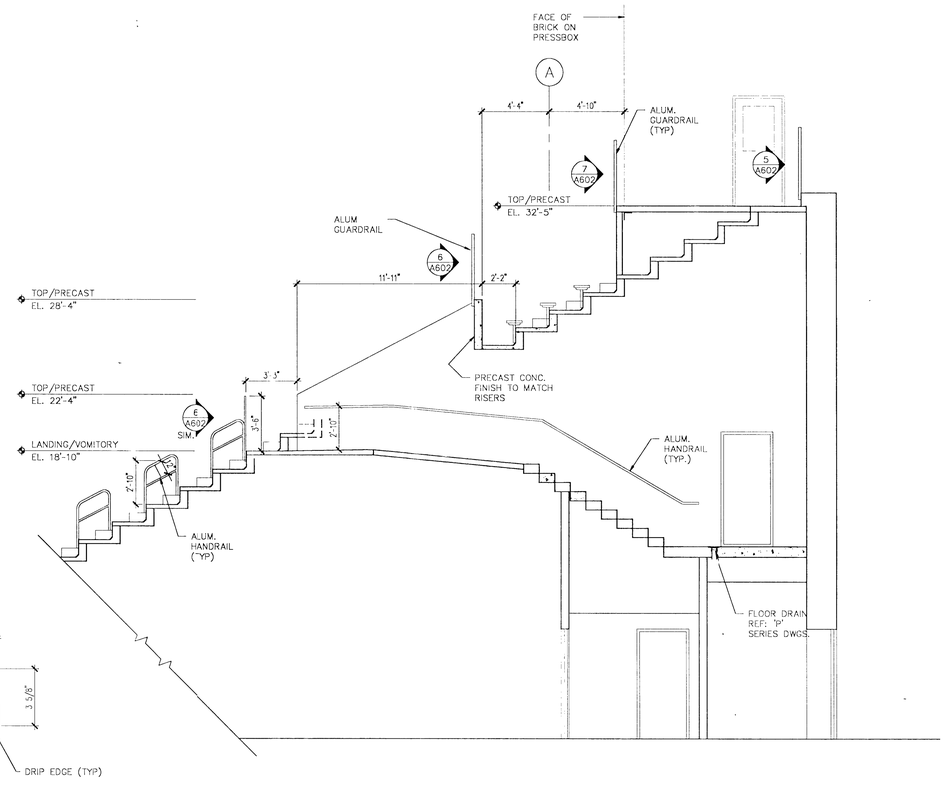
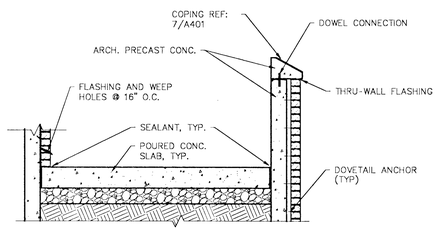


FOOTBALL GRANDSTAND SECTION

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

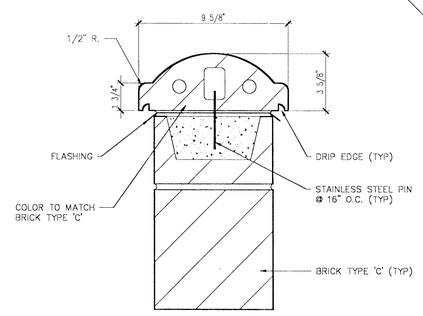
6 A403



RAMP SECTION

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

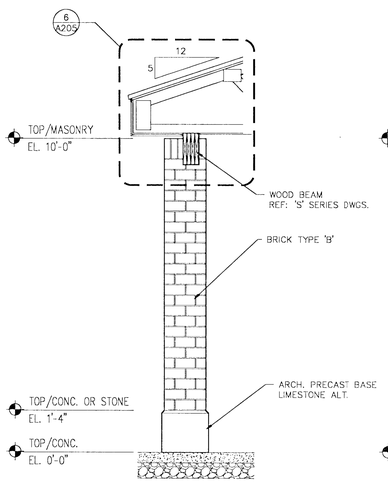
8 A403



SECTION OF ALTERNATE BRICK CAP/COPING @ SITE WALLS

SCALE: 3"=1'-0"

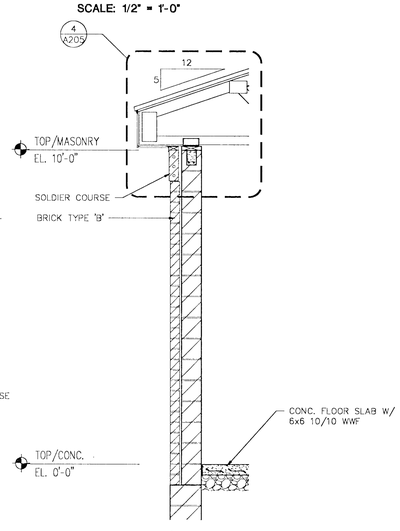
7 A403



TYP. SECTION @ VISTOR TOILET & CONCESSION

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

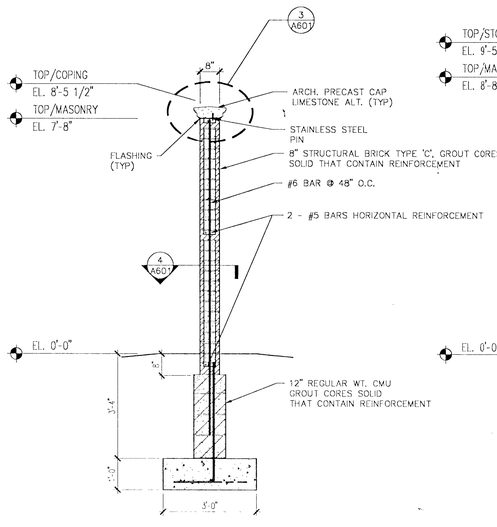
5 A403



TYP. SECTION @ VISTOR TOILET & CONCESSION

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

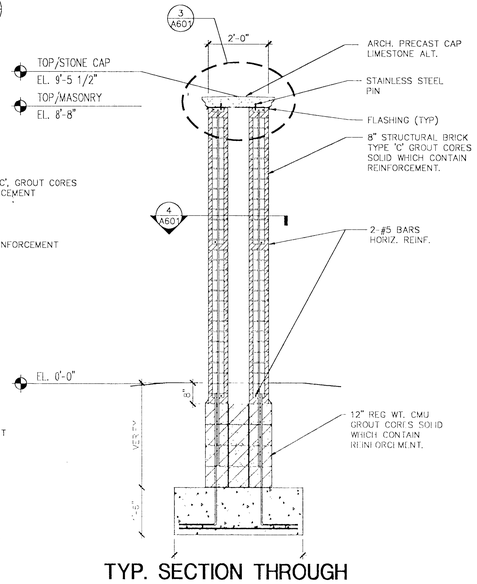
4 A403



TYP. SECTION THROUGH SITE WALL

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

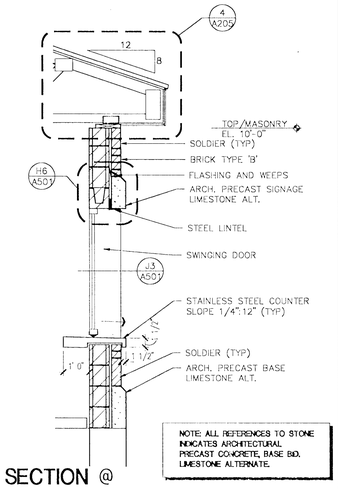
3 A403



TYP. SECTION THROUGH PILASTER @ SITE WALL

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

2 A403



NOTE: ALL REFERENCES TO STONE INDICATES ARCHITECTURAL PRECAST CONCRETE, BASE BID. LIMESTONE ALTERNATE.

TYP. SECTION @ TICKET BOOTH

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

1 A403

LARRY W. REETS REGISTERED No. NO. 3034 STATE OF INDIANA ARCHITECT

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: MRM,MCW

checked by: GKJ

A403

WALL SECTIONS MISCELLANEOUS

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DOOR AND FRAME SCHEDULE

OPENING NUMBER	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR ELEVATION	DOOR GLASS	FRAME PROFILE	FRAME MATERIAL	FRAME ELEVATION	FRAME GLASS	HEAD	JAMB	SILL	LABEL	HARDWARE	REMARKS
FOOTBALL STADIUM																
A101A	16'-0"	12'-0"	1"	STL	–	–	P3	STL	–	–	4/A402	J5	–	–	–	OHCOILING
A101B	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	B	–	–
A102	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	FRP. ALT.
A103	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A104A	(PR) 3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	2	–	H2	J2	–	–	–	FRP. ALT.
A104B	NOT USED															
A104C	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	2	–	H1	J2	–	–	–	FRP. ALT.
A104D	2'-2"	6'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	FRP. ALT.
A105A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A105B	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	FRP. ALT.
A106	PR. 3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	2	–	H2	J2	–	–	–	FRP. ALT.
A107A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	FRP. ALT.
A107B	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A108A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	FRP. ALT.
A108B	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A109A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H4	J4	–	–	–	FRP. ALT.
A109B	2'-4"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A110A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H4	J4	–	–	–	FRP. ALT.
A110B	2'-4"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A111	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	–
A112A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	–
A112B	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	–
A113	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H4	J4	–	–	–	FRP. ALT.
A114	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	–
A115A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A115B	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	FRP. ALT.
A116	(PR)3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	2	–	H2	J2	–	–	–	FRP. ALT.
A117A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	2	–	H2	J2	–	–	–	FRP. ALT.
A117B	NOT USED															
A117C	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1/J2	–	–	–	FRP. ALT.
A117D	2'-2"	6'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	FRP. ALT.
A118A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A118B	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A119A	16'-0"	12'-0"	1"	STL	OH	–	P3	STL	–	–	4/A402	J5	–	–	–	OHCOILING
A119B	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	B	–	–
A120	NOT USED															
A121	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	B	–	–
A122	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	–	–	FRP. ALT.
B112	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H2	J2	–	B	–	–
FOOTBALL STADIUM PRESSBOX																
A123A	3'-0"	7'-0"	1-3/4"	STL	B	–	P1/P2	STL	1	–	H4	J4	–	–	–	FRP. ALT.
A123B	3'-0"	7'-0"	1-3/4"	STL	B	–	P1/P2	STL	1	–	H4	J4	–	–	–	FRP. ALT.
A123C	2'-6"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1/J2	–	–	–	FRP. ALT.
A124	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A125	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A126	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
A127	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
VISITOR TOILET & CONCESSION																
B101A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H3	J3	–	–	–	FRP. ALT.
B101B	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
B101C	PR. 1'-10"	2'-8"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H6	J3	–	–	–	FRP. ALT.
B101D	PR. 1'-10"	2'-8"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H6	J3	–	–	–	FRP. ALT.
B102A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H5	J3	–	–	–	FRP. ALT.
B102B	2'-2"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	FRP. ALT.
B103A	2'-2"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	–
B103B	2'-2"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H1	J1	–	–	–	–
B104	(PR)3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	2	–	H3	J3	–	–	–	FRP. ALT.
B105	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H5	J3	–	–	–	FRP. ALT.
TICKET BOOTHS																
C101A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H3	J3	–	–	–	FRP. ALT
C101B	1'-8"	3'-8"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H6	J3	–	–	–	FRP. ALT.
C101C	1'-8"	3'-8"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H6	J3	–	–	–	FRP. ALT.
C102A	3'-0"	7'-0"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H3	J3	–	–	–	FRP. ALT.
C102B	1'-8"	3'-8"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H6	J3	–	–	–	FRP. ALT.
C102C	1'-8"	3'-8"	1-3/4"	STL	A	–	P1/P2	STL	1	–	H6	J3	–	–	–	FRP. ALT.

LINTEL SCHEDULE

1. WHERE LINTELS ARE SHOWN ON DRAWINGS BUT NOT NOTED; WHERE OPENINGS NOT SHOWN ARE CUT THRU MASONRY CONSTRUCTION AND REQUIRE LINTELS, AND WHERE LINTELS ARE NOT SHOWN OR NOTED ON DRAWINGS, THE FOLLOWING SHALL GOVEREN FOR ALL OPENINGS.
2. STEEL LINTELS WITH OPENINGS UP TO 4'-0" SHALL HAVE 1" OF BEARING FOR EACH FOOT OF SPAN, BUT IN NO CASE SHALL THE BEARING BE LESS THAN 6".
   A. FOR OPENINGS UP TO 4'-0" PROVIDE (1) 3-1/2" X 3-1/2" 5/16" ANGLE FOR EACH 4" THICKNESS OF WALL. WHERE MORE THAN 2 ANGLES ARE PROVIDED AND ARE NOT CONCEALED; PROVIDE 1/4" STEEL PLATE WELDED TO BOTTOM OF ANGLES WHERE EXPOSED.
   B. FOR OPENINGS GREATER THAN 4'-0" AND LESS THAN 8'-0" PROVIDE (1) 6" X 3-1/2" X 3/8" ANGLE FOR EACH 4" THICKNESS OF WALL. WHERE MORE THAN 2 ANGLES ARE PROVIDE AND ARE NOT CONCEALED, PROVIDE 1/4" STEEL PLATE WELDED TO BOTTOM OF ANGLES WHERE EXPOSED.
   C. PROVIDE 75'-0" OF EACH ANGLE SIZE ABOVE FOR USE AS DIRECTED BY ARCHITECT/ENGINEER.
3. PRECAST CONCRETE LINTELS SHALL HAVE 8" OF BEARING AND BE REINFORCED AS FOLLOWS UP TO 8'-4" SPAN
   4" TO 6" WIDE – (1) #4 BAR TOP AND BOTTOM
   8" TO 10" WIDE – (2) #5 BARS TOP AND BOTTOM
   12" TO 14" WIDE – (2) #5 BARS TOP AND BOTTOM
4. C.M.U. LINTELS SHALL BE CONC. BOND BEAMS FOR SPANS UP TO 8'-0". BOND BEAMS SHALL HAVE 8" OF BEARING AND BE REINFORCED WITH 2 – #5 BARS.

   FOR SPANS GREATER THAN 9'-0", A STEEL BEAM IS REQUIRED. REF: STRUCTURAL PLANS FOR STEEL BEAM SIZE.

FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR MAT.	FLOOR FINISH	BASE	NORTH WALL MAT.	NORTH WALL FINISH	SOUTH WALL MAT.	SOUTH WALL FINISH	EAST WALL MAT.	EAST WALL FINISH	WEST WALL MAT.	WEST WALL FINISH	CEILING TYPE	CEILING HEIGHT	REMARKS
FOOTBALL STADIUM															
A101	ATH. EQ. STORAGE	CONC.	SLR	–	PC/CMU	–	CMU	–	CMU	–	PC	–	ER		
A102	STAIR	CONC.	SLR	–	PC	–	PC	–	–	–	PC	–	ER		
A102A	RAMP	CONC.	SLR	–	PC	–	PC	–	PC	–	PC	–	ER		
A103	OFFICE	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP1	10'-0"	
A104	VISITING TEAM	CONC.	SLR	–	PC	EP-1	CMU/PC	EP-1	CMU	EP-1	CMU	EP-1	ER/ACP1	VAR./10'-0"	
A104A	SHOWER	CONC.	SLR	–	PC	EP-1	PC	EP-1	CMU	EP-1	PC	EP-1	CP	10'0"	
A104B	CORRIDOR	CONC.	SLR	–	CMU	EP-1	PC	EP-1	PC	EP-1	CMU	EP-1	ACP1	12'-0" AFF.	
A105	JANITOR	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	PC	EP-1	PC	EP-1	ACP1	10'-0"	
A106	LOBBY	CONC.	SLR	–	PC	EP-1	PC	EP-1	PC	EP-1	PC	EP-1	ER		
A107	REFEREES	CONC.	SLR	–	PC	EP-1	CMU	EP-1	PC	EP-1	CMU	EP-1	ACP1	8'-0"	
A107A	REF. TOILET	CONC.	SLR	–	PC	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP2/CP	8'-0"	
A108	FIRST AID	CONC.	SLR	–	PC	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP1	8'-0"	
A108A	TOILET	CONC.	SLR	–	PC	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP1	8'-0"	
A109	MEN'S TOILET	CONC.	SLR	–	CMU	EP-1	CMU/PC	EP-1	PC/CMU	EP-1	CMU/PC	EP-1	ACP1	10'-0"	
A110	WOMEN'S TOILET	CONC.	SLR	–	CMU	EP-1	CMU/PC	EP-1	PC/CMU	EP-1	PC/CMU	EP-1	ACP1	10'-0"	••• PAINT ELEVATOR DOORS AND FRAMES, BOTH SIDES, 'EP-2'
A111	STORAGE	CONC.	SLR	–	CMU	EP-1	PC	EP-1	PC/CMU	EP-1	PC	EP-1	ER		
A112	CONCESSION	CONC.	SLR	–	PC/CMU	EP-1	PC	EP-1	CMU/PC	EP-1	PC	EP-1	ACP2	10'-0"	
A113	ELEVATOR	CONC.	SLR	–	PC	EP-1	CMU	EP-1	PC	EP-1	PC	EP-1	ACP1	10'-0"	
A114	ELEVATOR EQ.	CONC.	SLR		PC	EP-1	PC	EP-1	PC	EP-1	PC	EP-1	ER		
A115	JANITOR	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	PC	EP-1	PC	EP-1	ACP1	10'-0"	
A116	LOBBY	CONC.	SLR	–	PC	EP-1	PC	EP-1	PC	EP-1	PC	EP-1	ER		
A117	HOME TEAM	CONC.	SLR	–	PC	EP-1	CMU/PC	EP-1	PC/CMU	EP-1	CMU	EP-1	ER/ACP1	VAR/10'-0"	
A117A	SHOWER	CONC.	SLR	–	PC	EP-1	PC	EP-1	PC	EP-1	CMU	EP-1	CP	10'-0"	
A117B	CORRIDOR	CONC.	SLR	–	CMU	EP-1	PC	EP-1	CMU	EP-1	PC	EP-1	ACP1	12'-0" AFF.	
A118	OFFICE	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP1	10'-0"	
A118A	COACH TOILET	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP2/CP	8'-0"	
A119	LAWN EQ. STORAGE	CONC.	SLR	–	PC/CMU	–	CMU	–	CMU	–	CMU/PC	–	ER		
A120	MECHANICAL	CONC.	SLR	–	PC	–	–	–	CMU	–	CMU/PC	–	ER		
A121	ELECTRICAL	CONC.	SLR	–	PC	–	CMU	–	PC/CMU	–	PC	–	ER		
A122	STAIR	CONC.	SLR	–	PC	–	PC	–	PC	–	PC	–	ER		
A122A	RAMP	CONC.	SLR	–	PC	–	PC	–	PC	–	PC	–	ER		
B112	MEZZANINE	CONC.	SLR	–	PC/CMU	–	PC/CMU	–	PC	–	CMU/PC	–	ER		
FOOTBALL STADIUM PRESSBOX															
A123	PRESSBOX	CONC.	SLR	–	PC/CMU	EP-1	PC/CMU	EP-1	PC/CMU	EP-1	PC/CMU	EP-1	GYP	B.O.S.	••• PAINT ELEVATOR DOORS AND FRAMES, BOTH SIDES, 'EP-2'
A124	RADIO	CONC.	SLR		PC	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP1	8'-0"	
A125	TELEVISION	CONC.	SLR	–	PC	EP-1	CMU	EP-1	CMU	EP-1	PC	EP-1	ACP1	8'-0"	
A126	RADIO	CONC.	SLR	–	PC	EP-1	CMU	EP-1	PC	EP-1	CMU	EP-1	ACP1	8'-0"	
A127	TELEVISION	CONC.	SLR	–	PC	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP1	8'-0"	
VISITOR TOILET & CONCESSION FLOOR PLAN															
B101	CONCESSION	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP2	10'-0"	
B102	WOMEN'S TOILET	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP1	10'-0"	
B103	JAN./MECHANICAL	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ES	–	
B104	LAWN STORAGE	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ES	–	
B105	MEN'S TOILET	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ACP1	10'-0"	
TICKET BOOTH															
C101	TICKETS	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ES	–	
C102	TICKETS	CONC.	SLR	–	CMU	EP-1	CMU	EP-1	CMU	EP-1	CMU	EP-1	ES	–	

FINISH SCHEDULE GENERAL NOTES

1. ALL INTERIOR HOLLOW METAL DOORS, AND DOOR FRAMES, TO BE P-1 UNLESS NOTED OTHERWISE.
2. MECHANICAL DUCTWORK AND DIFFUSERS TO BE XX.

SCHEDULE OF PAINT COLORS

P1. MATCH BENJAMIN MOORE #1037 (LIGHT BEIGE).
P2. MATCH BENJAMIN MOORE #602 (FOREST GREEN)
EP-1 MATCH BENJAMIN MOORE #1037 (LIGHT BEIGE)
EP-2 MATCH BENJAMIN MOORE #602 (FOREST GREEN)

FINISH SCHEDULE ABBREVIATIONS

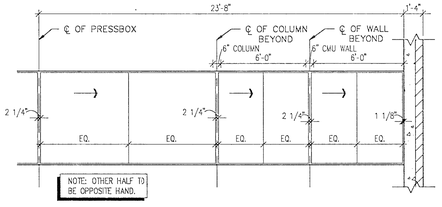
MATERIAL
BR BRICK
CMU CONCRETE MASONRY UNIT
CONC CONCRETE
PC PRECAST PANEL

FINISH
CT CERAMIC WALL TILE
P PAINT
SLR SEALER

CEILING TYPES
ACP1 ACOUSTICAL CEILING PANEL, 2 X 4 SQUARE EDGE
ACP2 ACOUSTICAL CEILING PANEL, 2 X 4 VINYL FACED
CP CEMENT PLASTER
ER EXPOSED RISER
ES EXPOSED STRUCTURE
EP EPOXY (SPECIAL COATING)

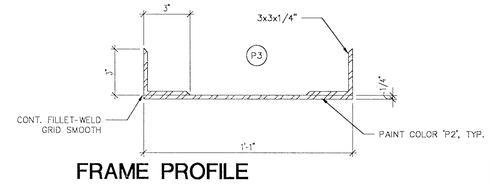
ABBREVIATIONS

AL ALUMINUM
G1 SAFETY GLASS
G2 SECURITY GLASS
HM HOLLOW METAL
FRP FIBERGLASS REINFORCED PLASTIC
SS STAINLESS STEEL
STL STEEL



ALUMINUM SLIDING DOOR ELEVATIONS

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



FRAME PROFILE

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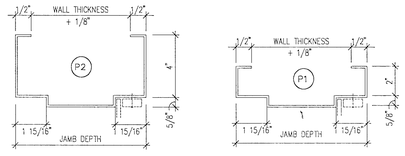

HOLLOW METAL FRAME PROFILES

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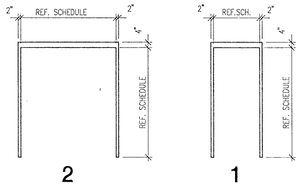
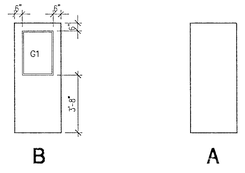


DOOR FRAME ELEV.

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

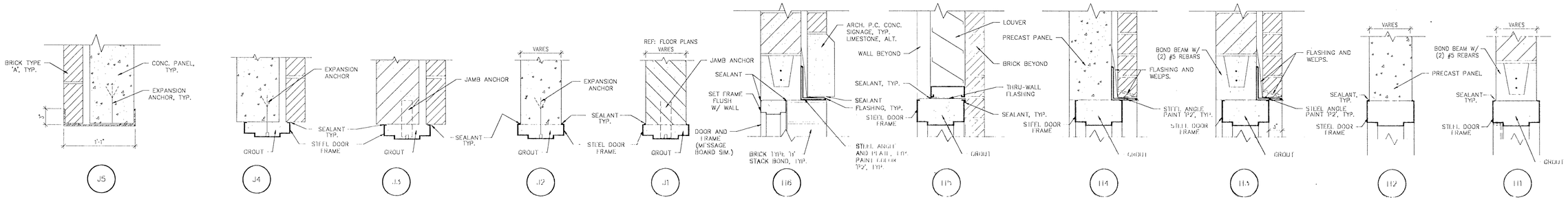
NOTE: ALL DOOR FRAMES COLOR EP-2 UNO.



DOOR ELEVATIONS

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

NOTE: ALL DOOR FRAMES COLOR EP-2 UNO.



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REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: MAY 31, 1994
drawn by: MRM
checked by: GKJ

A501

ROOM FINISH SCHEDULE
DOOR SCHEDULE

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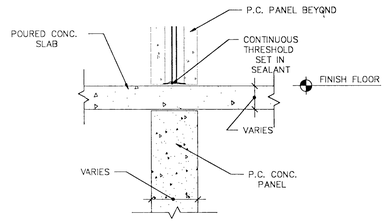

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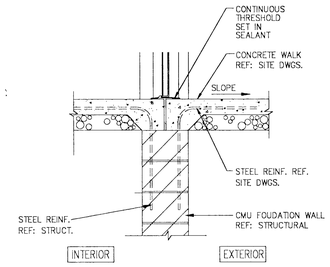
S2



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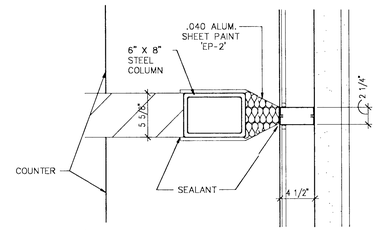
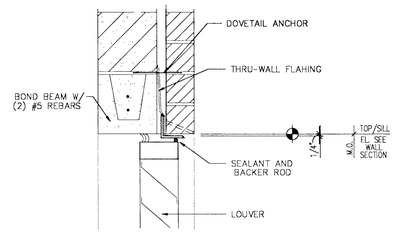
S1



SLIDING DOOR JAMB DETAIL

2.75 / A502

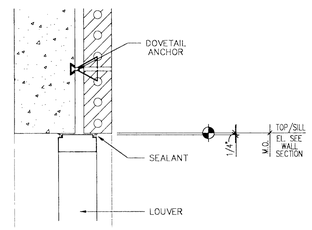
SCALE: 1 1/2"=1'-0"



LOUVER HEAD

8 / A502

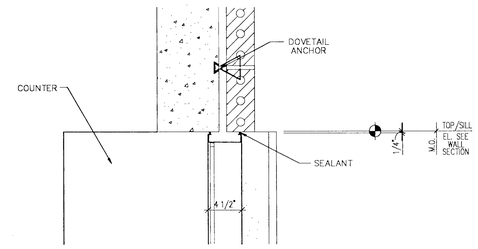
SCALE: 1 1/2"=1'-0"



LOUVER JAMB

5 / A502

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



SLIDING DOOR JAMB DETAIL

2.5 / A504

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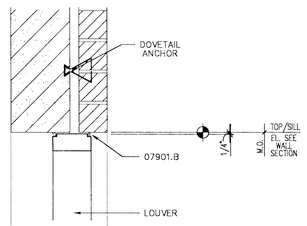
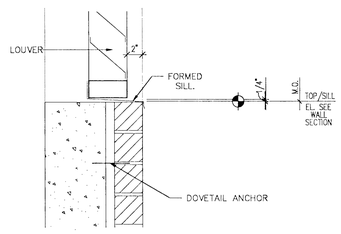


LOUVER JAMB

7 / A502

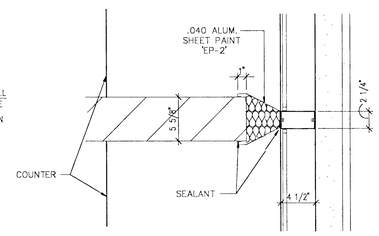
SCALE: 1 1/2"=1'-0"



LOUVER SILL

4 / A502

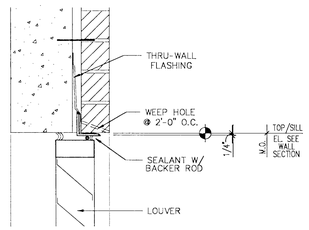
SCALE: 1 1/2"=1'-0"



SLIDING DOOR JAMB DETAIL

2 / A504

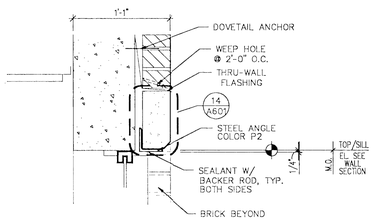
SCALE: 1 1/2"=1'-0"



LOUVER HEAD

6 / A502

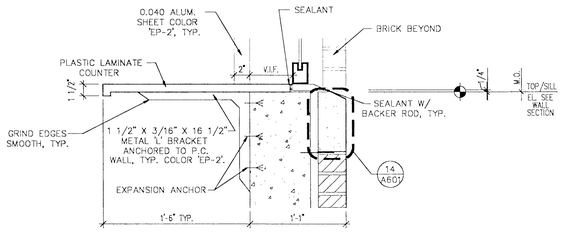
SCALE: 1 1/2"=1'-0"



SLIDING DOOR HEAD DETAIL

3 / A502

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



TYPICAL SILL & COUNTER DETAIL

1 / A502

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

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LARRY W. ODLE REGISTERED No. NO. 3034 STATE OF INDIANA ARCHITECT

CERTIFIED

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

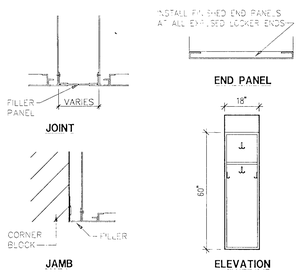
DATE: MAY 31, 1994

drawn by: MRM

checked by: GKJ

A502

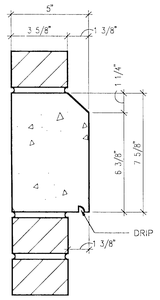
DOOR DETAILS/ LOUVER DETAILS



LOCKER DETAILS

SCALE: NONE

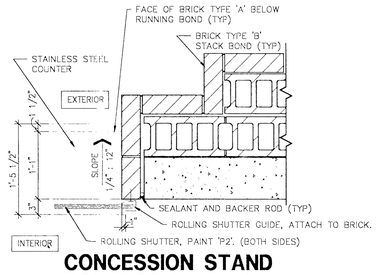
13.A / A601



SPECIAL STONE SHAPE

SCALE: 3" = 1'-0"

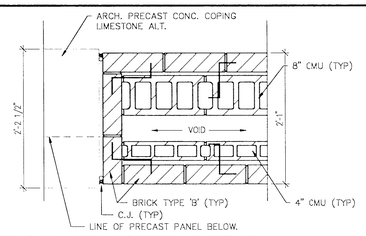
14 / A601



CONCESSION STAND ROLLING SHUTTER/ COUNTER DETAIL

SCALE: 1" = 1'-0"

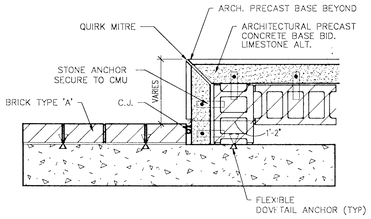
15 / A601



TYPICAL PILASTER DETAIL

SCALE: 1"=1'-0"

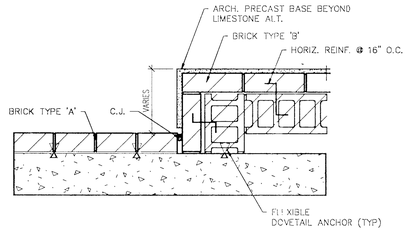
7A / A601



TYPICAL PILASTER DETAIL

SCALE: 1"=1'-0"

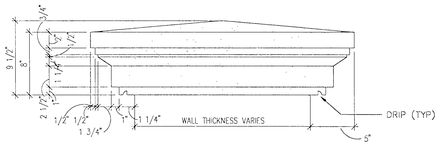
7 / A601



TYPICAL PILASTER DETAIL

SCALE: 1"=1'-0"

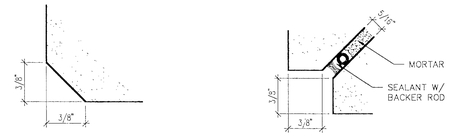
6 / A601



TYPICAL COPING PROFILE

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

3 / A601



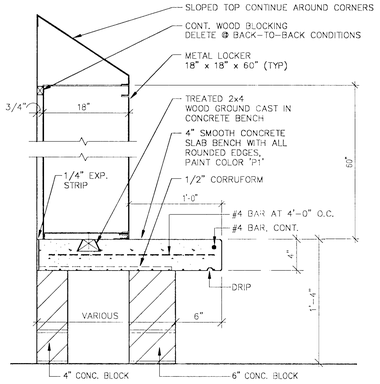
CHAMFERED CORNER

QUIRK MITRE JOINT

TYPICAL JOINT DETAILS

SCALE: NONE

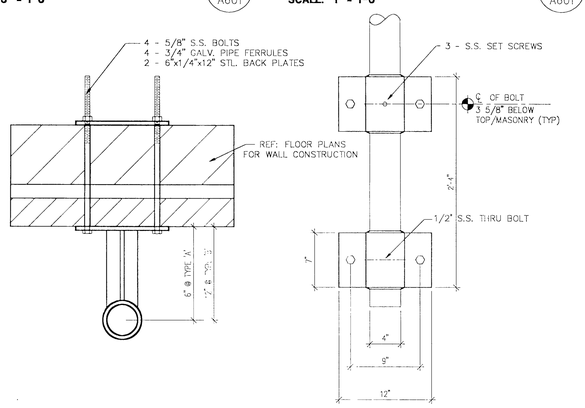
2 / A601



LOCKER BENCH SECTION

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

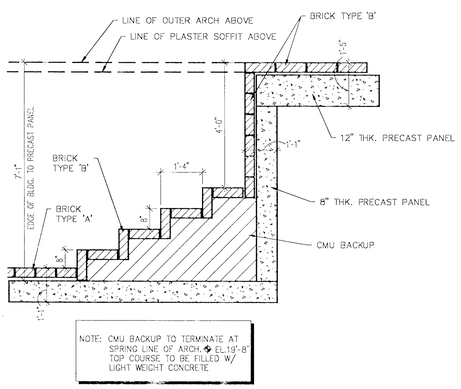
13 / A601



FLAGPOLE DETAILS

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

10 / A601

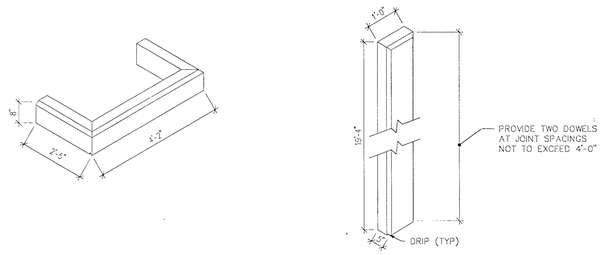


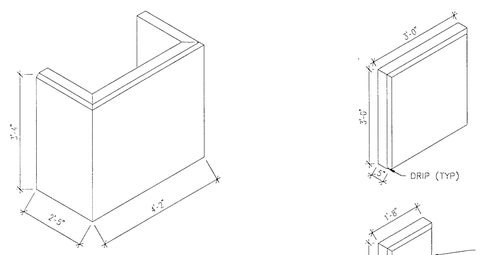
NOTE: CMU BACKUP TO TERMINATE AT SPRING LINE OF ARCH. @ EL.19'-8" TOP COURSE TO BE FILLED W/ LIGHT WEIGHT CONCRETE.

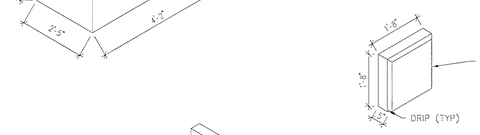
PLAN DETAIL

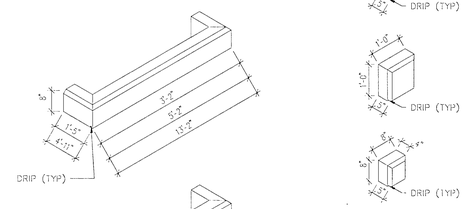
SCALE: 1/2"=1'-0"

5 / A601

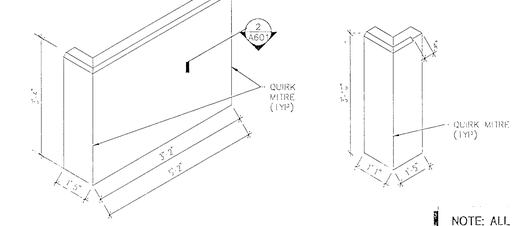








NOTE: NOT ALL REQUIRED PIECES HAVE BEEN DRAWN REF: ELEVATIONS AND WALL SECTIONS FOR TYPICAL BASE COURSES, AT VISITOR TOILET AND CONCESSION/ TICKET BOOTHS, ETC.



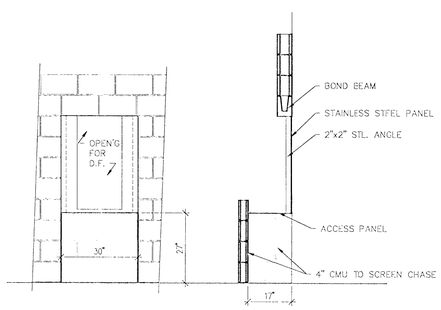
STONE DETAILS

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

1 / A601

NOTE: ALL PIECES TO BE ARCHITECTURAL PRECAST CONCRETE BASE BID. LIMESTONE ALTERNATE.

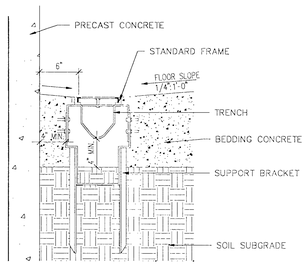
NOTE: ALL DIMENSIONS NOMINAL AND ARE TO BE VERIFIED IN FIELD.



FIRE EXTINGUISHER CABINET

SCALE: 3/4" = 1'-0"

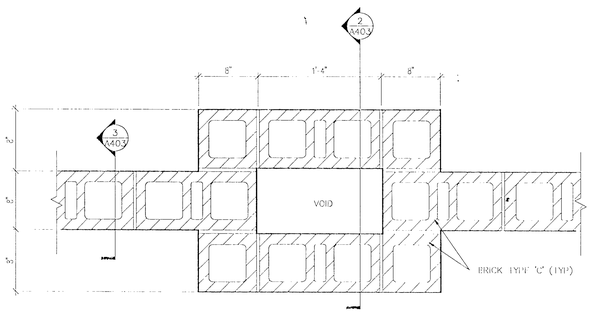
12 / A601



TYPICAL SHOWER DRAIN

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

9 / A601



BRICK WALL PILASTER PLAN

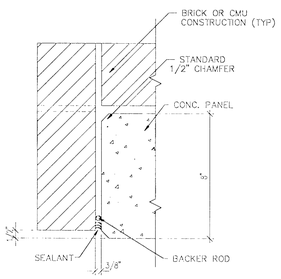
SCALE: 1 1/2"=1'-0"

4 / A601

PLAN DETAIL

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

11 / A601



PLAN DETAIL

SCALE: 3"=1'-0" NOTE: TYP. @ P.C. COLUMN OR PANEL

8 / A601

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8275 ALLISON POINTE TRAIL, POST OFFICE BOX 50428, INDIANAPOLIS, INDIANA 46250, 317/842-0000

LARY W. PHELPS REGISTERED NO. 3034 STATE OF INDIANA ARCHITECT

CERTIFIED

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: MRM,MCW

checked by: GJ

A601

PLAN DETAILS

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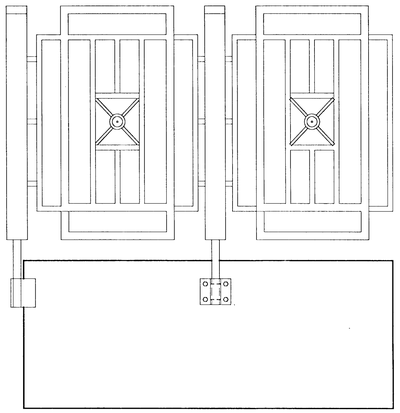
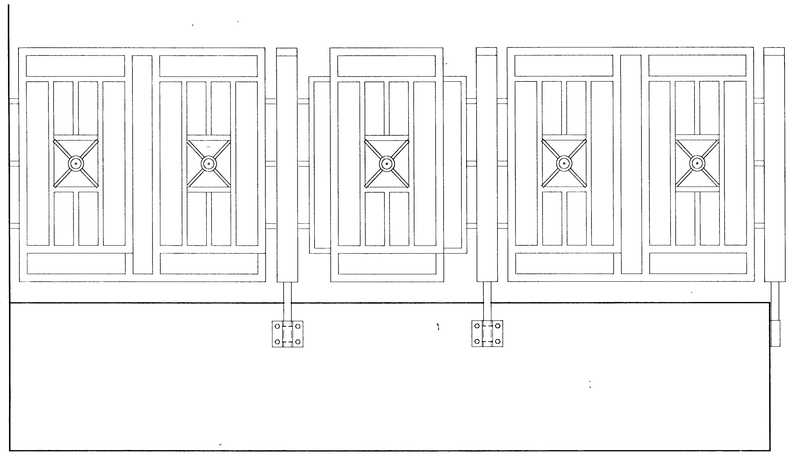


RAILING ELEVATION

SCALE: 1" = 1'-0"

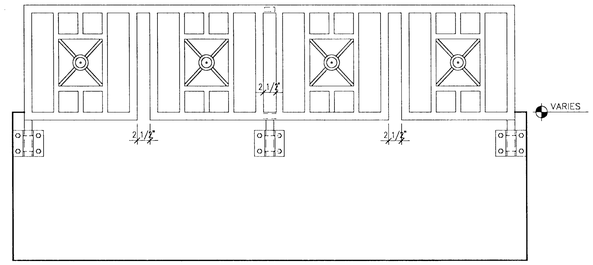
8 / A602



RAILING ELEVATION

SCALE: 1" = 1'-0"

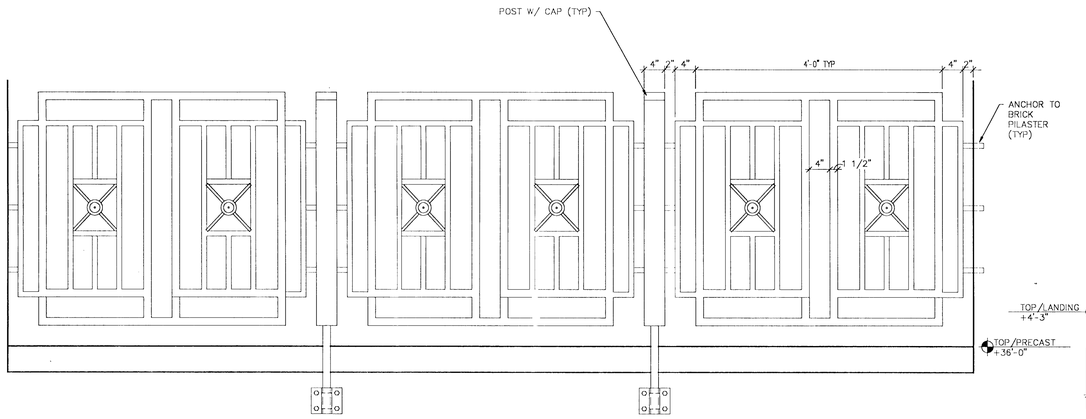
7 / A602



RAILING ELEVATION

SCALE: 1" = 1'-0"

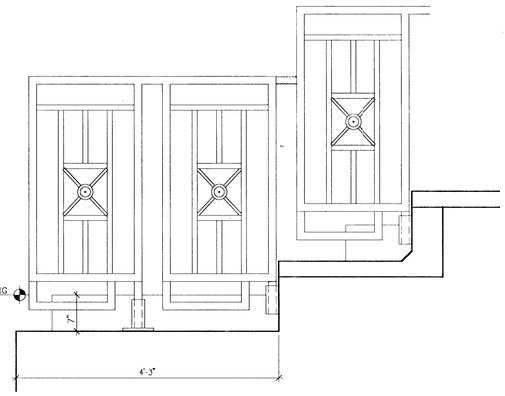
6 / A602



RAILING ELEVATION

SCALE: 1" = 1'-0"

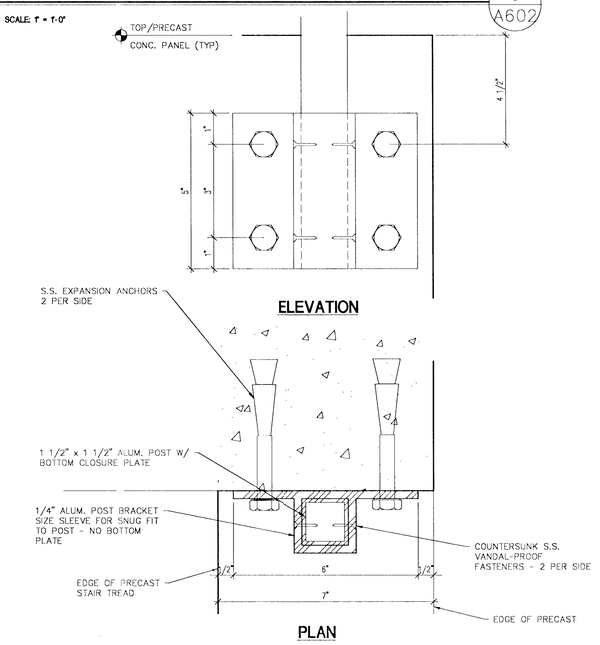
5 / A602



RAILING ELEVATION

SCALE: 1" = 1'-0"

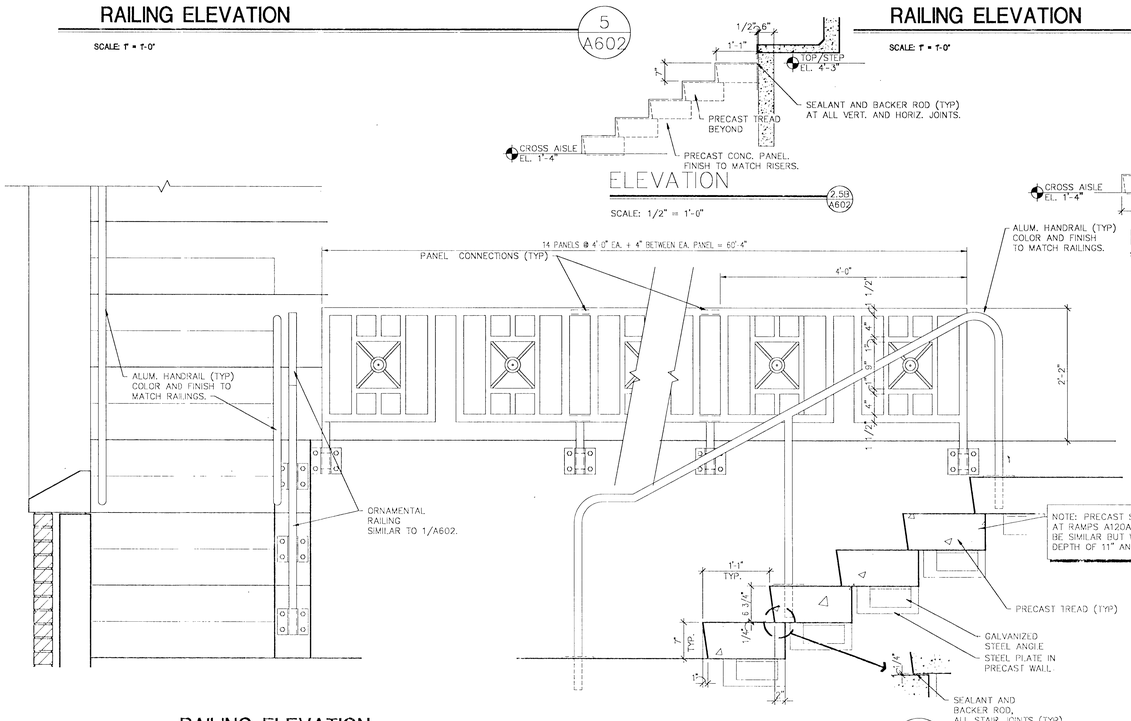
4 / A602



POST BRACKET DETAIL

SCALE: HALF FULL

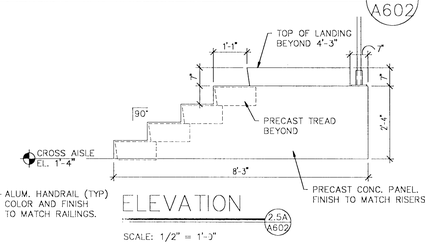
3 / A602



RAILING ELEVATION

SCALE: 1" = 1'-0"

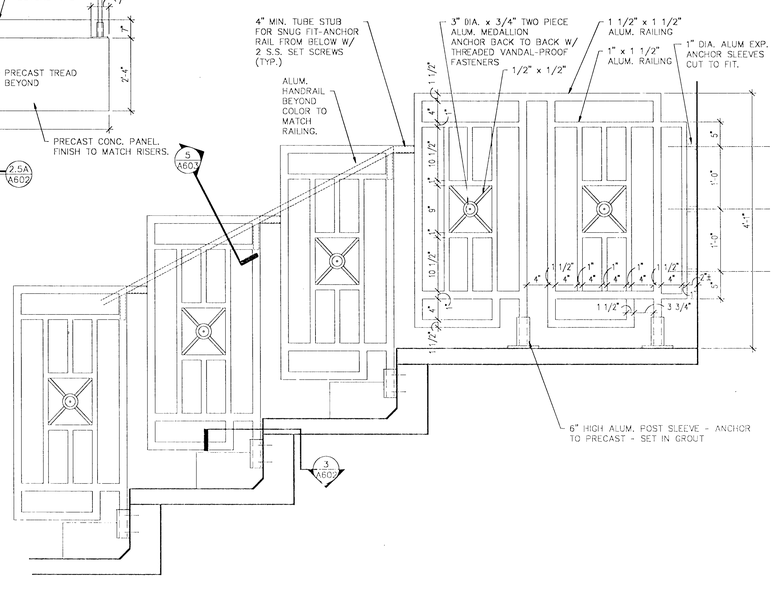
2 / A602



RAILING ELEVATION

SCALE: 1" = 1'-0"

1 / A602



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LARRY W. PHELPS REGISTERED No. 3034 STATE OF INDIANA ARCHITECT

CERTIFIED

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

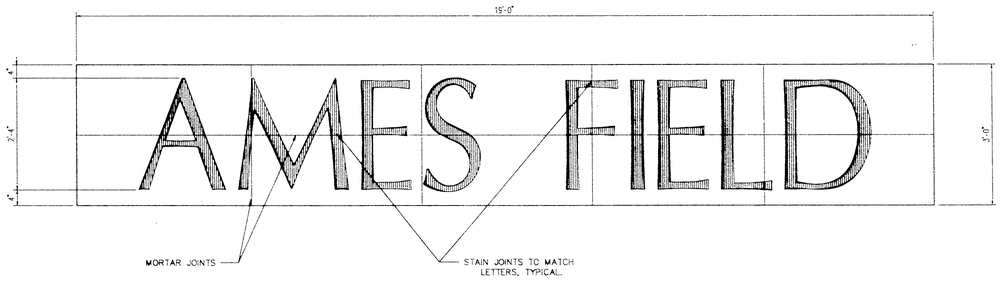
DATE: MAY 31, 1994

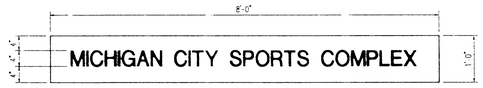
drawn by: MRM

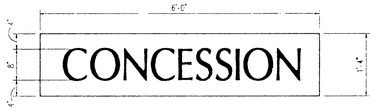
checked by: GJ

A602

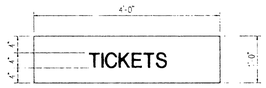
PLAN DETAILS



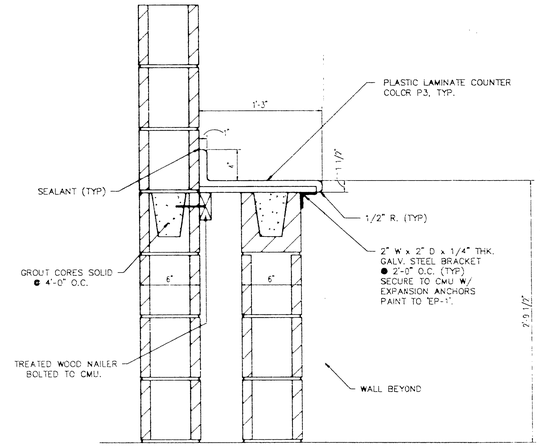




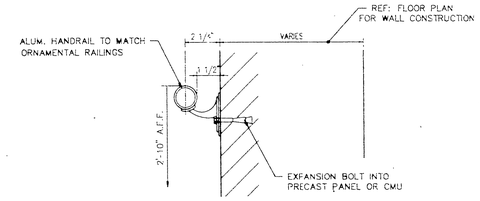
NOTE: ALL STONE SIGNAGE IS TO BE ARCHITECTURAL PRECAST, TYPICAL LIMESTONE, ALTERNATE. FOR LETTER INCISING AND STAIN CONTACT CERAMICA, INC. (317) 845-0087



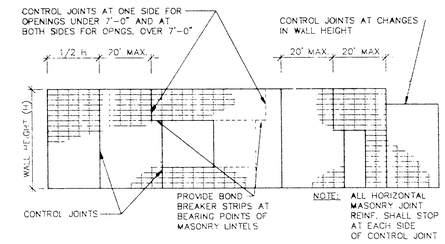
STONE SIGNAGE
SCALE: 3/4" = 1'-0" (12 / A603)



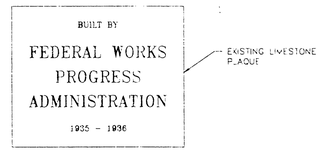
LOCKER ROOM COUNTER DETAIL
SCALE: 1 1/2" = 1'-0" (9 / A603)

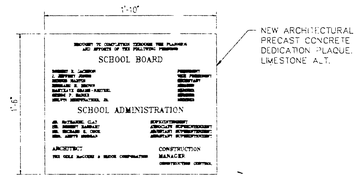


TYPICAL HANDRAIL DETAIL
SCALE: 3" = 1'-0" (5 / A603)

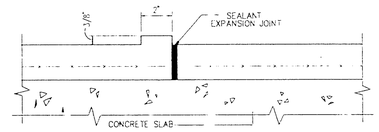


ELEVATION OF TYPICAL CONTROL JOINT LOCATIONS
SCALE: NONE (4 / A603)

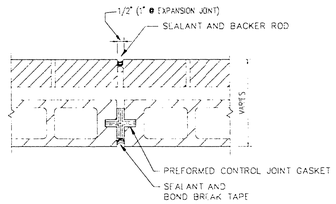




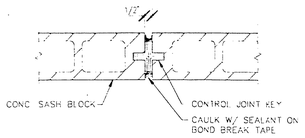
DEDICATION PLAQUES
SCALE: 1-1/2" = 1'-0" (8 / A603)



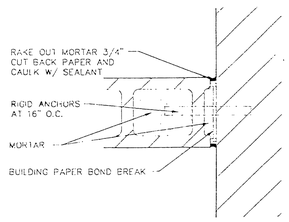
CURB @ HANDICAP SHOWER
SCALE: 3"=1'-0" (3 / A603)



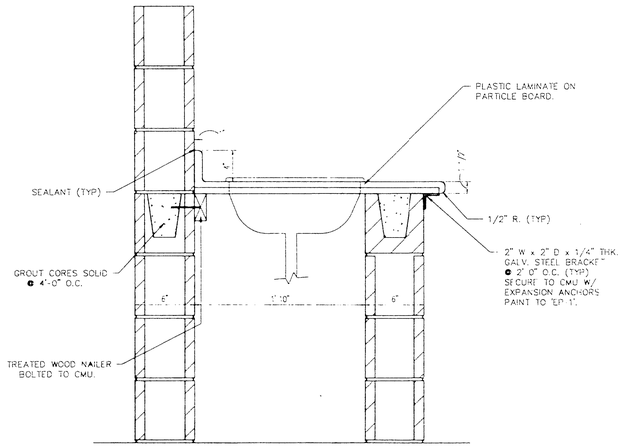
EXTERIOR WALL CONTROL JOINT
SCALE: 1-1/2" = 1'-0" (2 / A603)



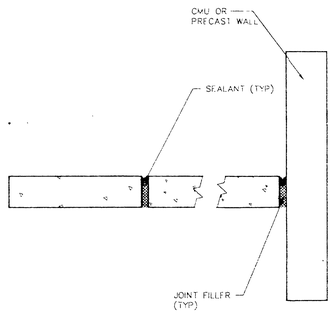
INTERIOR WALL CONTROL JOINT
SCALE: 1-1/2" = 1'-0" (7 / A603)



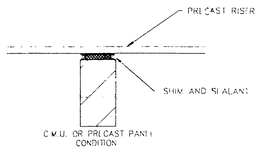
INTERSECTION OF PERPENDICULAR WALLS
SCALE: 1 1/2" = 1'-0" (1 / A603)



TYPICAL CONCESSION COUNTER DETAIL
SCALE: 1 1/2" = 1'-0" (11 / A603)



TYPICAL ISOLATION JOINTS @ VERTICAL SYRFACES
SCALE: 1 " = 1'-0" (10 / A603)



WALL TO DECK TERMINATIONS (TYP.)
SCALE: NONE (6 / A603)

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REGISTERED NO. 3034 STATE OF INDIANA ARCHITECT

CERTIFIED

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: MCW

checked by: GJ

A603

MISC. DETAILS

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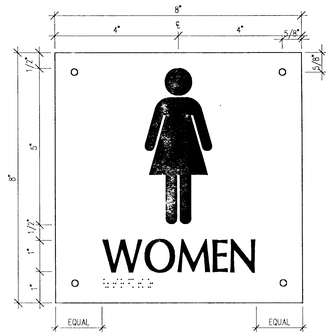
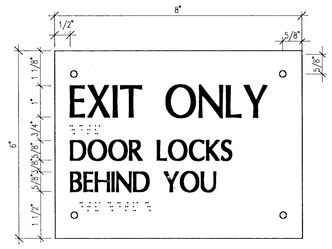


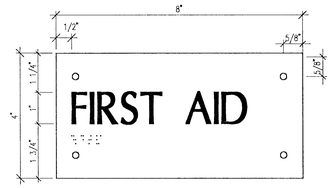
TYPE E - Symbol Sign

SCALE: 1/2"=1"



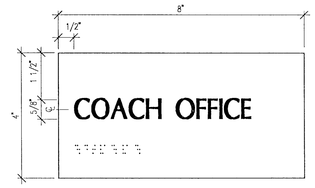
TYPE C - Warning Sign

SCALE: 1/2"=1"



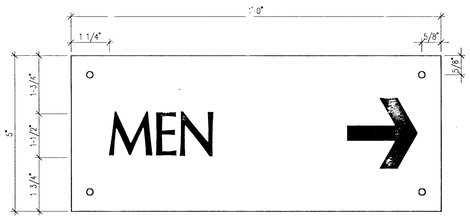
TYPE B - Room Identification Sign

SCALE: 1/2"=1"



TYPE A - Room Identification Sign

SCALE: 1/2"=1"

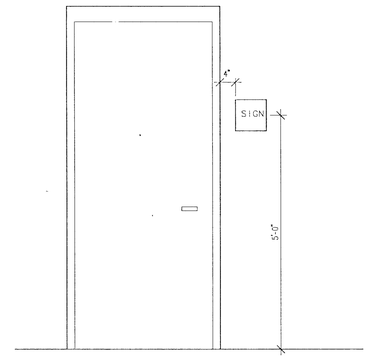


TYPE D - Directional Sign

SCALE: 1/2"=1"

TYPE F - Bulkhead Sign

SCALE: 1/2"=1"

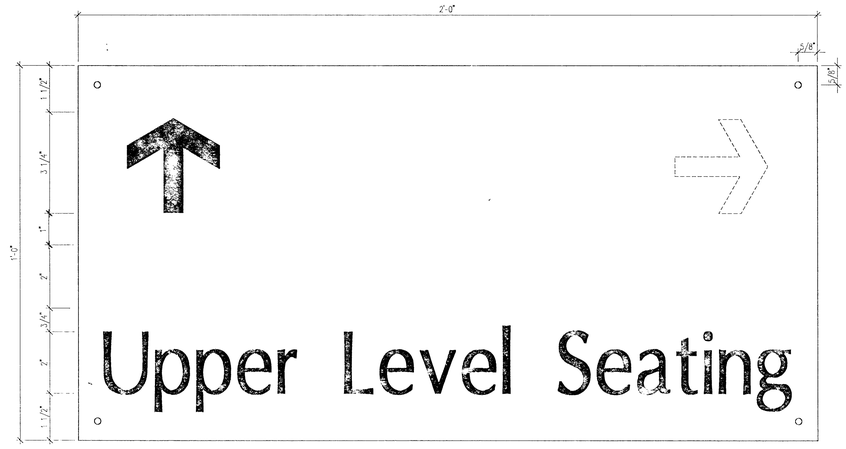


Sign Placement Elevation

SCALE: 3/4"=1'-0"

TYPE G2- Directional Sign

SCALE: 1/2"=1"



TYPE G - Directional Sign

SCALE: 1/2"=1"

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8275 ALLISON POINTE TRAIL, POST OFFICE BOX 50428, INDIANAPOLIS, INDIANA 46250, 317/842-0000

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

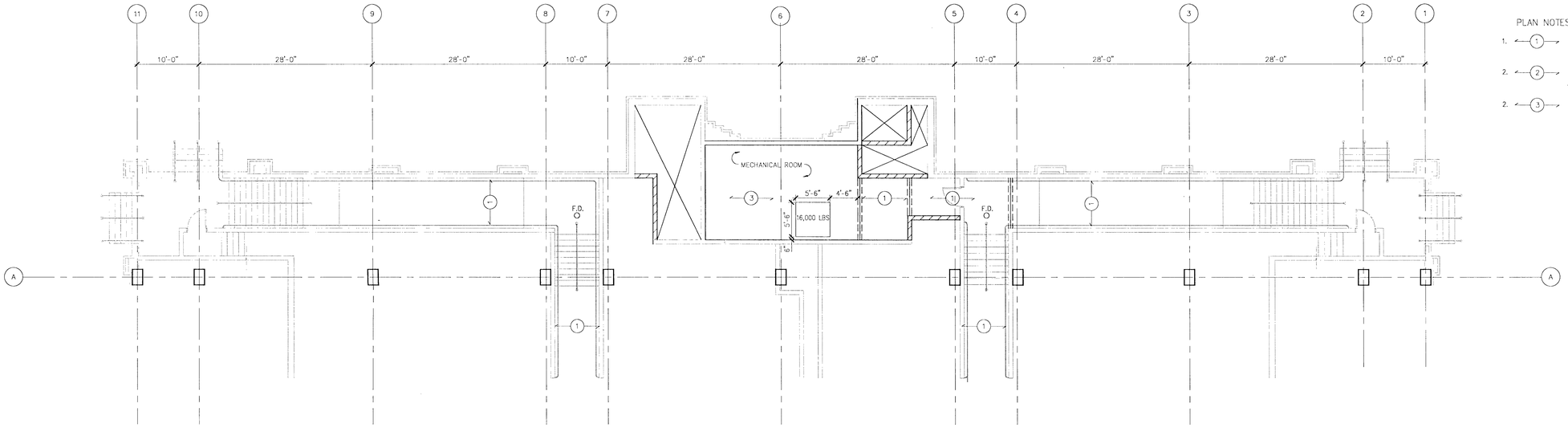
DATE: MAY 31, 1994

drawn by: LEC

checked by: GJ

A604

SIGNAGE

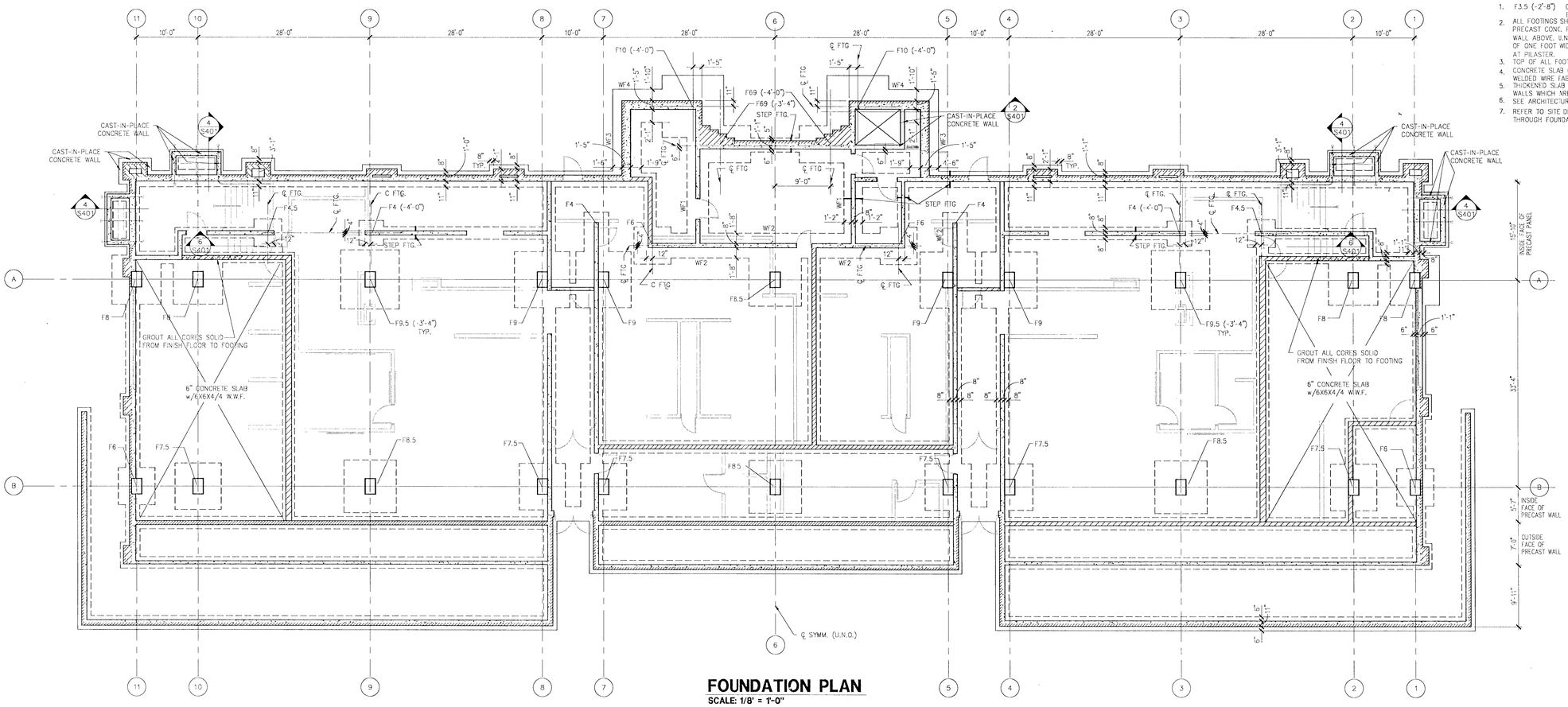


STADIUM INTERIOR RAMP & MECHANICAL ROOM FRAMING PLAN

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

PLAN NOTES

1. (1) DENOTES 6" PRECAST CONCRETE HOLLOW CORE DECK WITH 2" TOPPING AND DIRECTION OF SPAN. DESIGN LOAD = L.L. 100 PSF + WALL LOAD
2. (2) DENOTES 8" PRECAST CONCRETE HOLLOW CORE DECK WITH 2" TOPPING AND DIRECTION OF SPAN. DESIGN LOAD = L.L. 100 PSF + WALL LOAD
2. (3) DENOTES 12" PRECAST CONCRETE HOLLOW CORE DECK WITH 2" TOPPING AND DIRECTION OF SPAN. DESIGN LOAD = L.L. 150 PSF + EQUIPTMENT LOAD AS SHOWN



FOUNDATION PLAN

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

FOUNDATION NOTES:

1. F3.5 (-2'-8") DENOTES FOOTING SIZE AND TOP OF FOOTING ELEVATION BELOW FINISH ELEVATION OF 0'-0"
2. ALL FOOTINGS SHALL BE 1'-0" THICK FOR MASONRY WALL OR 1'-3" THICK FOR PRECAST CONC. PANEL WALL AND 1'-0" GREATER THAN THE WIDTH OF FOUNDATION WALL ABOVE. U.N.O. PROVIDE 1-#5 CONTINUOUS BAR FOR EACH FOOT OR A FRACTION OF ONE FOOT WIDTH OF FOOTING. ALSO PROVIDE #5 @ 12" O.C. E.W. TRANSVERSE BARS AT PILASTER.
3. TOP OF ALL FOOTINGS ARE TO BE 3'-4" BELOW FINISH FLOOR, U.N.O.
4. CONCRETE SLAB ON GRADE SHALL BE 4" THICK, REINFORCED WITH 6X6-8/8 WELDED WIRE FABRIC, ON VAPOR BARRIER OVER 4" DRAINAGE FILL, U.N.O.
5. THICKENED SLAB SHALL BE PROVIDED UNDER ALL INTERIOR NON-LOAD BEARING WALLS WHICH ARE 6" OR WIDER. SEE TYPICAL THICKENED SLAB DETAIL ON S501.
6. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND SECTIONS.
7. REFER TO SITE DRAWINGS FOR LOCATION OF PIPES. PROVIDE SLEEVE THROUGH FOUNDATION MASONRY.

FOOTING SCHEDULE

MARK	FOOTING SIZE L W D	REINFORCING
F4	4'-0"X4'-0"X1'-2"	5 - #5
F4.5	4'-6"X4'-6"X1'-2"	6 - #5
F6	6'-0"X6'-0"X1'-5"	7 - #7
F6.9	6'-0"X9'-0"X2'-3"	#7 @ 11" O.C.
F7.5	7'-6"X7'-6"X1'-9"	8 - #7
F8	8'-0"X8'-0"X1'-10"	9 - #7
F8.5	8'-6"X8'-6"X1'-10"	10 - #7
F9	9'-0"X9'-0"X2'-0"	10 - #8
F9.5	9'-6"X9'-6"X2'-0"	10 - #8
F10	10'-0"X10'-0"X2'-3"	12 - #8
WF1	15"	3-#5 LONG
		#4 @ 18" TRANS.
WF2	15"	4-#5 LONG
		#5 @ 12" O.C. TRANS
WF3	17"	5-#5 LONG
		#5 @ 12" O.C. TRANS
WF4	17"	6-#5 LONG
		#6 @ 12" O.C. TRANS

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JOSEPH B. FISHER REGISTERED 13022 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED

REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

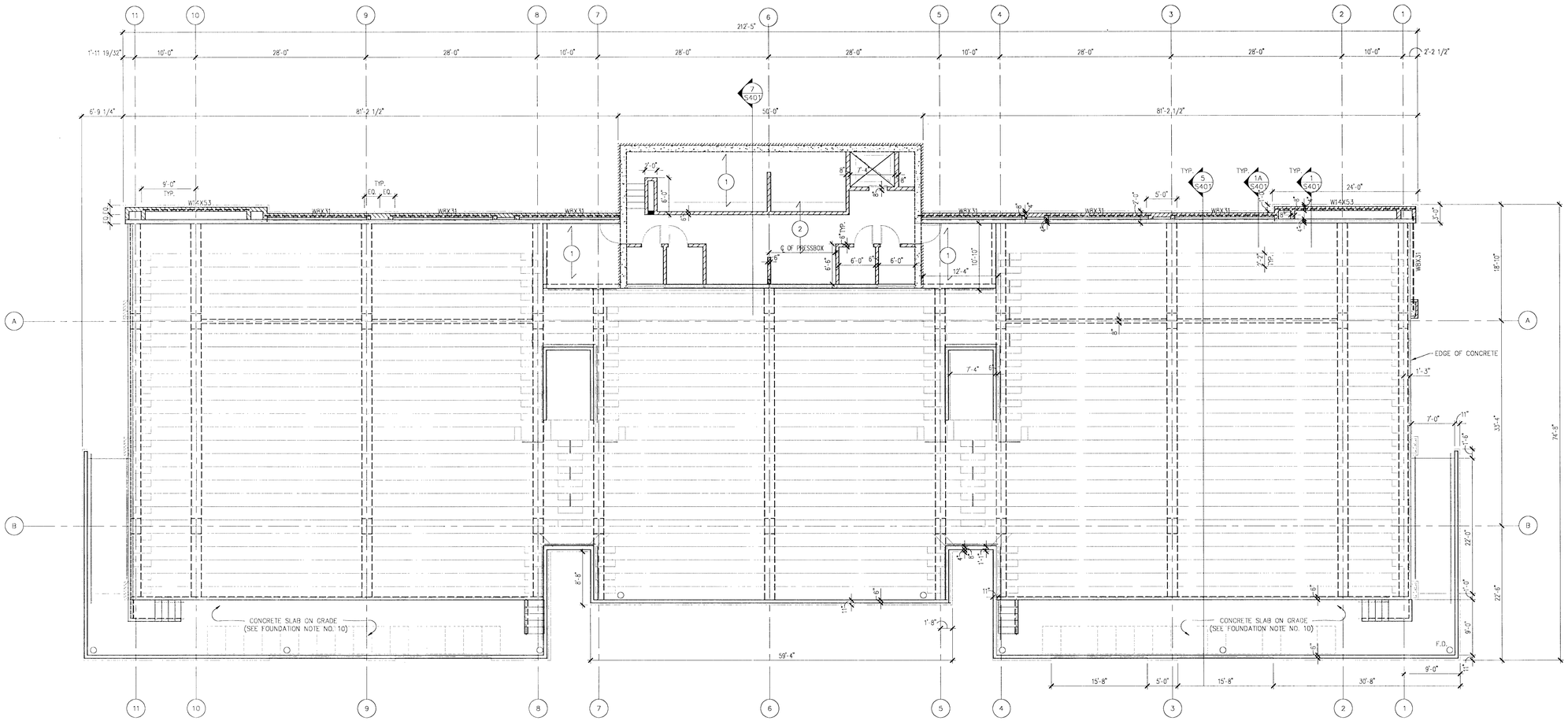
drawn by: JAW

checked by: JBF

S201

FOUNDATION PLAN

1/8" = 1'-0"

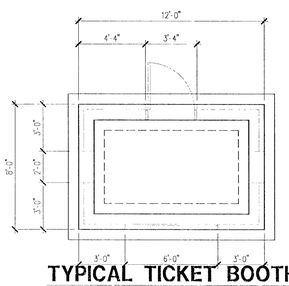


STADIUM SEATING FRAMING PLAN

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

PLAN NOTES

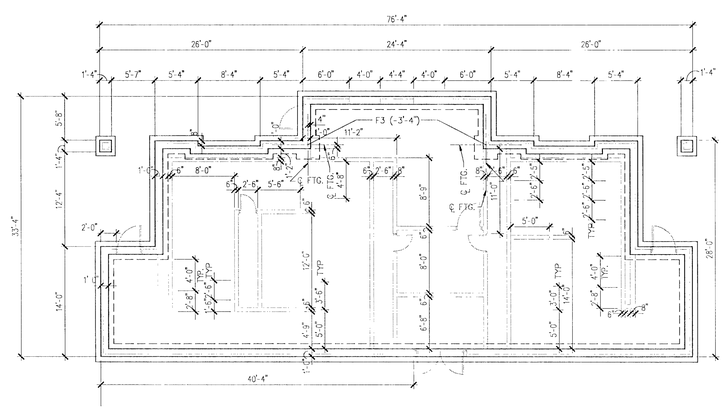
1. (1) DENOTES 6" PRECAST CONCRETE HOLLOW CORE DECK WITH 2" TOPPING AND DIRECTION OF SPAN. DESIGN LOAD = L.L. 100 PSF + WALL LOAD
2. (2) DENOTES 8" PRECAST CONCRETE HOLLOW CORE DECK WITH 2" TOPPING AND DIRECTION OF SPAN. DESIGN LOAD = L.L. 100 PSF + WALL LOAD



TYPICAL TICKET BOOTH

FOUNDATION NOTES

1. F3.5 (-2'-8") DENOTES FOOTING SIZE AND TOP OF FOOTING ELEVATION BELOW FINISH ELEVATION OF 0'-0"
2. ALL FOOTINGS SHALL BE 1'-0" THICK AND 1'-0" GREATER THAN THE WIDTH OF FOUNDATION WALL ABOVE, U.N.O. PROVIDE 1-#5 CONTINUOUS BAR FOR EACH FOOT OR A FRACTION OF ONE FOOT WIDTH OF FOOTING.
3. TOP OF ALL EXTERIOR FOOTINGS ARE TO BE 3'-4" BELOW FINISH FLOOR, U.N.O.
4. CONCRETE SLAB ON GRADE SHALL BE 4" THICK, REINFORCED WITH 6X6-8/8 WELDED WIRE FABRIC, ON VAPOR BARRIER OVER 4" DRAINAGE FILL, U.N.O.
5. THICKENED SLAB SHALL BE PROVIDED UNDER ALL INTERIOR NON-LOAD BEARING WALLS WHICH ARE 6" OR WIDER. SEE TYPICAL THICKENED SLAB DETAIL ON S401.
6. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND SECTIONS.
7. REFER TO SITE DRAWINGS FOR LOCATION OF PIPES. PROVIDE SLEEVE THROUGH FOUNDATION MASONRY.



VISITOR TOILET AND CONCESSION

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

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

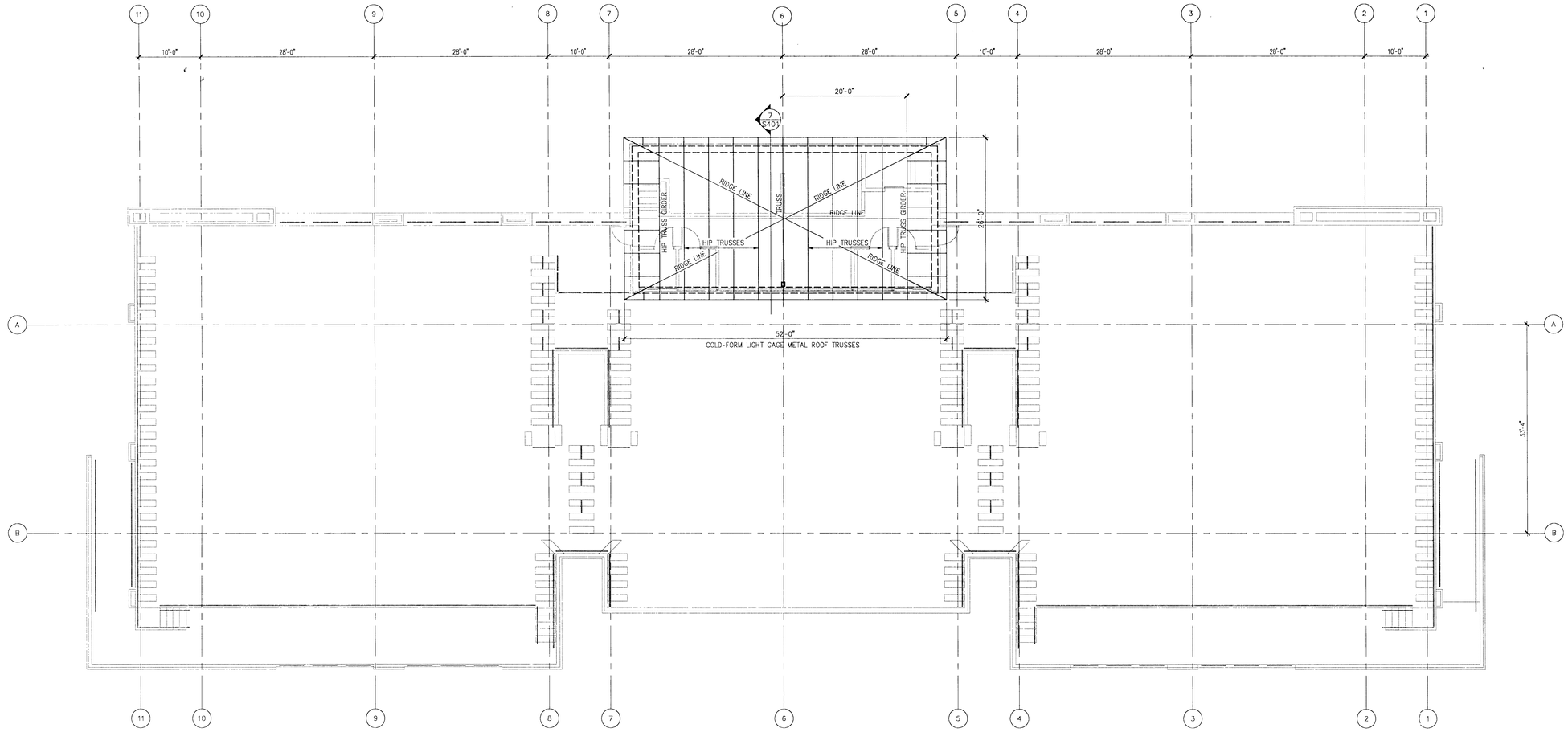
drawn by: BJM

checked by: JBF

S202

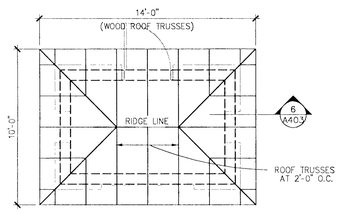
FOUNDATION AND FRAMING PLANS

1/8" = 1'-0"



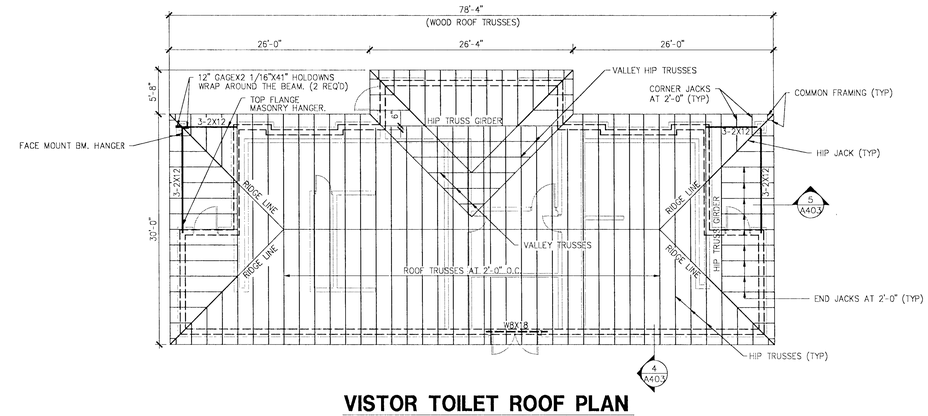
PRESSBOX ROOF PLAN

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



TYPICAL TICKET BOOTH ROOF PLAN

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



VISTOR TOILET ROOF PLAN

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

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: BJM

checked by: JBF

S203

ROOF FRAMING PLANS

E:\STRUCTURAL\93052\S203 05-27-94 14:45:53

DESIGN NOTES

CONCRETE 28 DAY DESIGN STRENGTH:
CLASS E CONCRETE (ALL CONC. EXCEPT P.C. AND U.N.O.) 6,000 PSI
CLASS B CONCRETE (WALL FOOTING AND COLUMN PAD) 6,000 PSI

MASONRY 28 DAY DESIGN STRENGTH:
PRISM TEST STRENGTH 1,500 PSI
CONCRETE REINFORCING STEEL: ASTM, GRADE 60
STRUCTURAL STEEL: A36
STRUCTURAL STEEL TUBING: A500
SOIL BEARING PRESSURES
STADIUM & RESTROOM: 3000 PSF
BRICK WALL FENCE: 2000 PSF

WIND LOAD: 85 MPH, EXPOSURE "D"

SEISMIC LOAD: ZONE 1

LIVE LOAD:
ROOF: 40 PSF
MECHANICAL ROOM: 150 PSF
SEATING AND PUBLIC AREA: 100 PSF

THIS BUILDING WAS DESIGNED IN ACCORDANCE WITH:

"THE INDIANA BUILDING CODE", INDIANA DEPARTMENT OF HIRE AND BUILDING SERVICES.
"BUILDING CODE REQUIREMENTS FOR REINFORCE CONCRETE", ACI 318
"DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS", LATEST EDITION SDI.

FOUNDATION NOTES

1. AFTER STRIPPING OF THE TOPSOIL, THE EXPOSED SUBGRADE SHALL BE PROOFROLLED WITH A MEDIUM WEIGHT ROLLER OF OTHER APPROVED EQUIPMENT TO DETERMINE IF ANY POCKETS OF SOFT COMPRESSIBLE SOILS EXISTS BENEATH THE EXPOSED SUBGRADE. WHEREVER SUCH MATERIAL IS ENCOUNTERED, THE AREA SHALL BE UNDERCUT TO SUITABLE SOILS.
2. AFTER STRIPPING OF THE TOP SOIL, WHERE FOOTING ELEVATION IS HIGHER THAN THE EXPOSED SUBGRADE, THE ENGINEERED FILL SHALL BE PLACED ON TOP OF THE APPROVED EXPOSED SUBGRADE TO THE UNDERNEATH OF THE FOOTING. ALL ENGINEERED FILL BENEATH THE FLOOR SLABS AND FOOTINGS SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 93% OF THE MODIFIED PROCTOR MAX. DRY DENSITY (ASTM D-1557). THIS MINIMUM COMPACTION REQUIREMENT SHALL BE INCREASED TO 95 PERCENT FOR FILL SUPPORTING FOOTINGS. PLACING AND COMPACTION OF ENGINEERED FILL SHALL BE OVERSEEN BY THE INDEPENDENT TESTING LABORATORY.
3. FOOTING NOT SUPPORTED BY ENGINEERED FILL SHALL BEAR ON FIRM UNDISTURBED MATERIAL. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED BY THE INDEPENDENT TESTING LABORATORY TO ASSURE THE ADEQUATE BEARING CAPACITY FOR WHICH THE FOOTINGS WERE DESIGNED. IF UNSUITABLE MATERIAL IS FOUND, THE AREA SHALL BE UNDERCUT TO SUITABLE SOILS AND THEN FILLED WITH LEAN CONCRETE OR COMPACTED ENGINEERING FILL.
4. ALL FOOTINGS SUBJECTED TO OUTSIDE WEATHER CONDITIONS SHALL BE LOCATED AT LEAST 4 FEET BELOW FINAL EXTERIOR GRADE AT ANY GIVEN POINT FOR FROST PROTECTION UNLESS OTHERWISE INDICATED.
5. BACK FILL ALONG THE FOUNDATION AND BRICK WALL FENCE FOUNDATION SHALL BE COMPACTED TO A DRY DENSITY OF 93% OF THE MODIFIED PROCTOR MAX. DRY DENSITY (ASTM D-1557)
6. IF DEWATERING IS REQUIRED, SUMPS SHALL NOT BE PLACED WITHIN THE FOOTING OR GRADE BEAM EXCAVATION.
7. SEE THE SUBSURFACE INVESTIGATION & FOUNDATION RECOMMENDATIONS REPORT BY K & S TESTING AND ENGINEERING, INC. FOR STRIPPING TOPSOIL, PROOFROLLING, COMPACTING FILL, TESTING AND SUPERVISION.

CONCRETE NOTES

1. REINFORCING STEEL PLACING DRAWINGS AND BAR LISTS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) AND "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" (ACI 315R). ALL BAR AND MESH SUPPORTS MUST BE CLEARLY DETAILS.
2. ALL REINFORCING STEEL DETAILS SHALL BE IN ACCORDANCE WITH THE ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
3. PROVIDE SHEAR KEYS IN ALL THE CONSTRUCTION JOINTS.
4. CENTER ALL FOOTINGS ON WALL, PIER OR COLUMN ABOVE UNLESS OTHERWISE INDICATED.
5. PROVIDE 0.5% OF TOTAL TONNAGE OF REINFORCING STEEL TO BE FABRICATED AND PLACED AS DIRECTED BY THE ARCHITECT/ENGINEER.

CONCRETE MASONRY NOTES

1. FILL CORES OF CONCRETE BLOCKS SOLID WITH CONCRETE OR USE SOLID BLOCKS FOR AN AREA OF 16 INCHES X 16 INCHES BELOW ALL LINTELS AND BEAMS SUPPORTED ON MASONRY WALLS UNLESS OTHERWISE INDICATED.
2. REINFORCING BARS IN BOND BEAMS MUST BE CONTINUOUS AT INTERSECTIONS OR CHANGES IN DIRECTIONS OF WALLS.
3. WEBS OF CONCRETE BLOCKS WITH CORES TO BE GROUTED SOLID SHALL BE BUTTERED WITH MORTAR.
4. ALL WALLS SHALL BE TOPPED WITH CONTINUOUS BOND BEAM.

STEEL DECK NOTES

1. STEEL DECK CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS.
2. ALL DECK SHALL BE THREE OR MORE SPANS CONTINUOUS WHERE POSSIBLE.
3. OPENINGS GREATER THAN 12" THROUGH THE ROOF DECK SHALL BE FRAMED WITH ANGLES 3"X3"X5/16 ON FOUR SIDES.

WELD NOTES

1. E70XX ELECTRODES SHALL BE USED FOR ALL WELDS.

MISCELLANEOUS NOTES

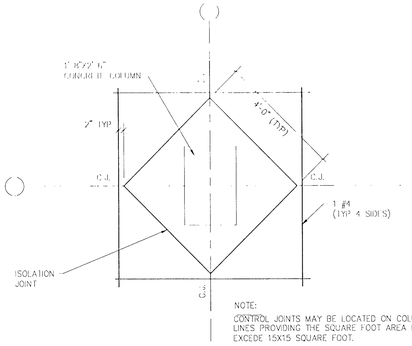
1. EACH CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF DUCT OPENINGS, GRILLS, LOUVERS, ETC. WITH THE MECHANICAL TRADES BEFORE PROCEEDING WITH THE WORK.

STEEL ROOF DECK:

1 1/2 INCH STANDARD DECK: WIDE RIB DECK, 0.0295 INCH DESIGN THICKNESS AND 22 GAGE WITH MINIMUM SECTION PROPERTIES: I = 0.167 IN4/FT., Sp =0.186 IN3/FT. AND Sn = 0.194 IN3/FT.

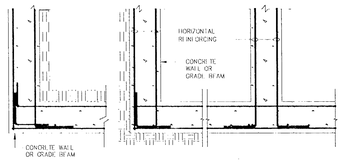
P.C. WALL PANEL NOTES

1. PROVIDE SOLID CORE AT RELIEVING ANGLE.
2. EMBED 3/8"X5" CONTINUOUS PLATE AT TOP OF WALL FOR ROOF TRUSS ANCHORAGE.



NOTE:
CONTROL JOINTS MAY BE LOCATED ON COLUMN GRID LINES PROVIDING THE SQUARE FOOT AREA DOES NOT EXCEDE 15X15 SQUARE FOOT.

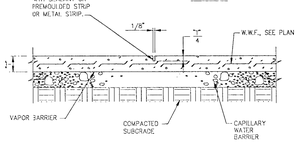
ISOLATION JOINT AT COLUMN
SCALE 1/2" = 1'-8"



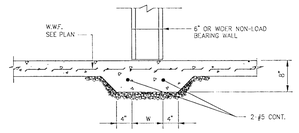
NOTES:
1. EXTEND BARS FULL TENSION LAP SPLICE AROUND CORNERS.
2. VERTICAL BARS NOT SHOWN FOR CLARITY.
3. CORNER BARS MAY BE USED IN LIEU OF EXTENDING BARS AROUND CORNERS. CORNER BARS SHALL BE THE SAME SIZE AND SPACING AS HORIZONTAL BARS, AND SHALL LAP FULL LENGTH LAP W/ HORIZ.STEEL.

TYPICAL CORNER DETAIL FOR HORIZONTAL REINFORCING

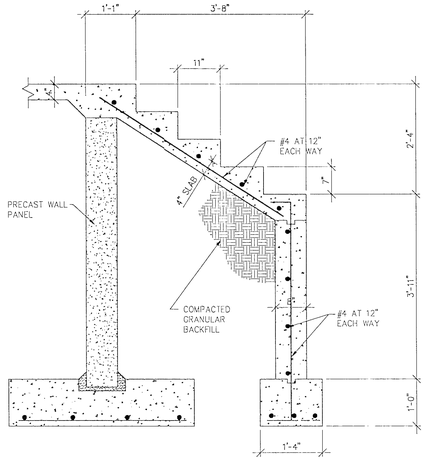
NOTE:
THE AREA BOUNDED BY CONTROL JOINTS SHALL NOT EXCEED 400 SQ. FT.



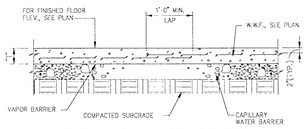
TYPICAL SLAB CONTROL JOINT
NO SCALE



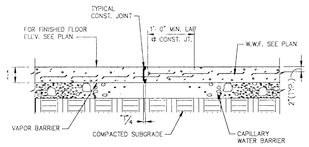
TYPICAL THICKENED SLAB



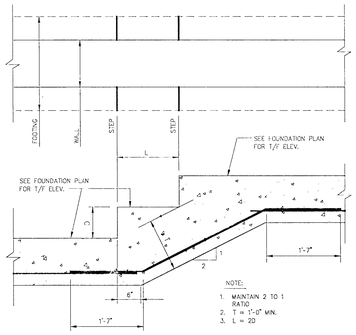
SECTION (4/S401)
SCALE: 3/4" = T-0"



TYPICAL SLAB ON GRADE CONSTRUCTION

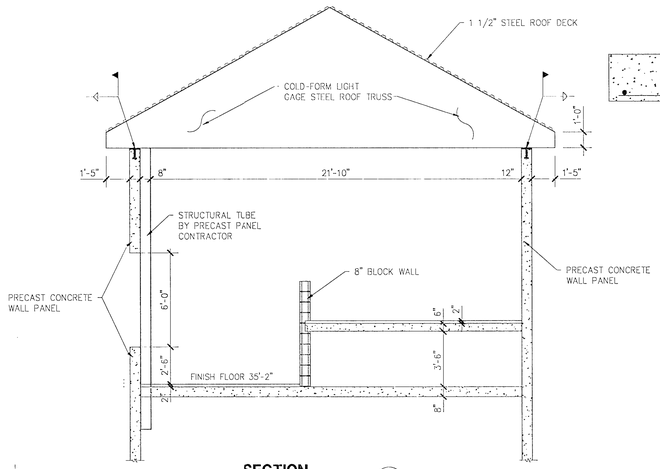


TYPICAL SLAB ON GRADE CONSTRUCTION JOINT

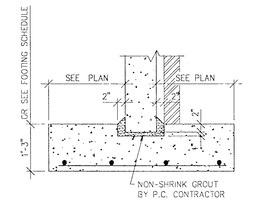


NOTE:
1. MAINTAIN 2 TO 1 RATIO
2. T = 1'-0" MIN.
3. L = 2D

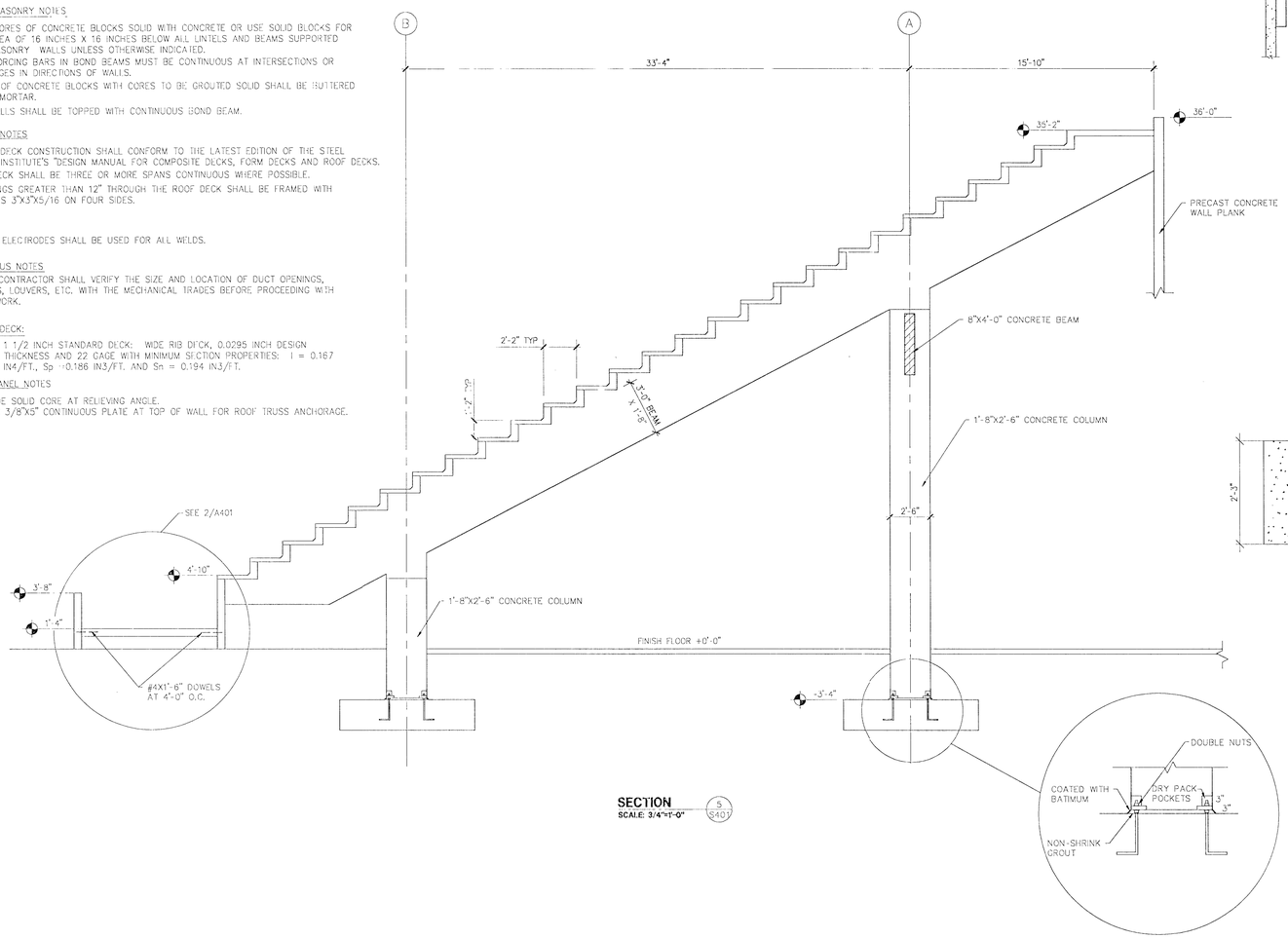
TYPICAL STEP FOOTING DETAIL



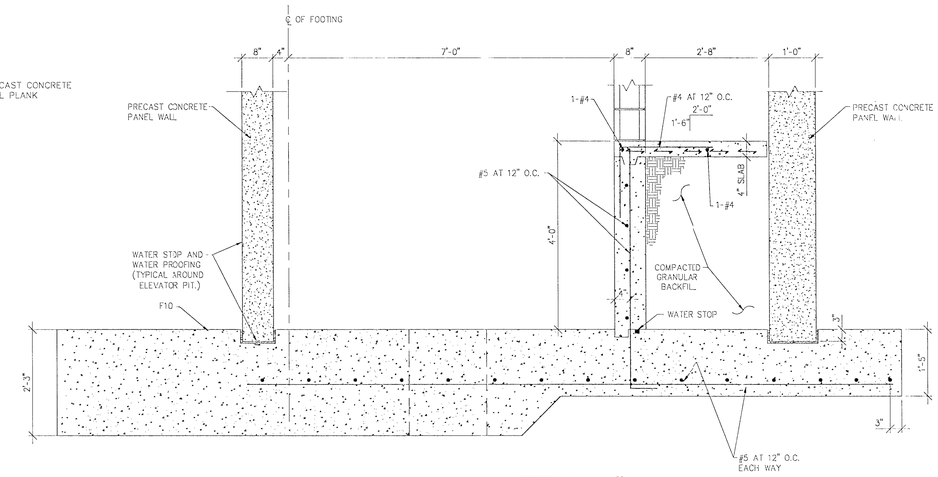
SECTION (7/S401)
NOT TO SCALE



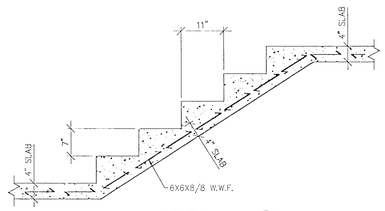
TYPICAL P. C. WALL PANEL FOOTING
NOT TO SCALE



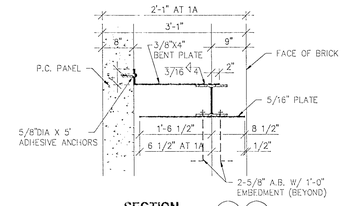
SECTION (5/S401)
SCALE: 3/4"=1'-0"



SECTION (2/S401)
SCALE: 3/4"=1'-0"



SECTION (6/S401)
SCALE: 3/4" = 1'-0"



SECTION (1/S401) (1A/S401)
SCALE: 3/4"=1'-0"

JOSEPH B. S. FU REGISTERED 13022 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: MAY 31, 1994
drawn by: JAW
checked by: JBF

S401

SECTIONS AND DETAILS

1/8" = 1'-0"

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE VALVE	MU	MAKE-UP WATER
	CHECK VALVE	S	HEATING WATER SUPPLY *
	BUTTERFLY VALVE	R	HEATING WATER RETURN *
	GLOBE VALVE	CWS	CHILLED WATER SUPPLY *
	MEASURING/BALANCING VALVE	CWR	CHILLED WATER RETURN *
	BALL VALVE	CS	CONDENSER WATER SUPPLY *
	CONTROL VALVE, 2-WAY	CR	CONDENSER WATER RETURN *
	CONTROL VALVE, 3-WAY	BO	BOILER BLOW OFF LINE
	PRESSURE REDUCING VALVE	RL	REFRIGERANT LIQUID *
	SOLENOID VALVE	RS	REFRIGERANT SUCTION *
	RELIEF (R), SAFETY (S), VALVE	GS	GLYCOL SUPPLY *
	PIPE, UP (RISER)	GR	GLYCOL RETURN *
	PIPE, DOWN (DROP)	FOS	FUEL OIL SUPPLY *
	CONNECTION, TOP	FOR	FUEL OIL RETURN *
	CONNECTIONS, BOTTOM	FOG	FUEL OIL GAUGE
	CONCENTRIC REDUCER	FOV	FUEL OIL VENT
	ECCENTRIC REDUCER	D	CONDENSATE DRAIN LINE **
	UNION	CPD	CONDENSATE PUMP DISCHARGE **
	PIPE ANCHOR	VPD	VACUUM PUMP DISCHARGE **
	PIPE GUIDE	LPS	LOW PRESSURE STEAM **
	Y-STRAINER	LPR	LOW PRESSURE RETURN **
	BASKET STRAINER	60 MPS	MEDIUM PRESSURE STEAM ** (PRESSURE INDICATED)
	AIR ELIMINATOR	60 MPR	MEDIUM PRESSURE RETURN ** (PRESSURE INDICATED)
	EXPANSION JOINT	100 HPS	HIGH PRESSURE STEAM ** (PRESSURE INDICATED)
	FLEXIBLE CONNECTOR	100 HPR	HIGH PRESSURE RETURN ** (PRESSURE INDICATED)
	FLOWMETER, VENTURI		
	FLOW SWITCH		
	PRESSURE GAUGE		
	THERMOMETER		* ARROW INDICATES DIRECTION OF FLOW ONLY
	TRAP (INDICATE TYPE)		** ARROS INDICATES DIRECTION OF DOWNWARD SLOPE
	TEST PLUG		
	AUTOMATIC FLOW CONTROL VALVE WITH PRESSURE TAPS		
	BUTTERFLY VALVE WITH MEMORY STOP		
	BALL VALVE WITH MEMORY STOP		

PLUMBING SYMBOLS

DESCRIPTION	NEW	EXISTING
DOMESTIC COLD WATER		CW
DOMESTIC SOFT COLD WATER	SCW	SCW
DOMESTIC 140° HOT WATER	140°	140°
DOMESTIC 120° HOT WATER		HW
DOMESTIC HOT WATER RETURN		HWR
TEMPERED WATER	T	T
SANITARY SEWER	SAN	SAN
SANITARY WASTE	W	W
VENT		V
GAS SERVICE	G	G
FIRE PROTECTION WATER SERVICE	F	F
PIPE BELOW GRADE		
BRANCH OFF BOTTOM		
BRANCH OFF TOP		
BRANCH OFF SIDE		
RISER DOWN (ELBOW)		
RISER UP (ELBOW)		
CAPPED PIPE OR TEE		
FLOW IN DIRECTION OF ARROW		
SLOPE IN DIRECTION OF ARROW		
WATER HAMMER ARRESTER		
SHUT-OFF VALVE		
BALL VALVE		
CHECK VALVE		
STRAINER		
THERMOMETER		
UNION (DIELECTRIC OR AS NOTED)		
THERMASTATIC MIXING VALVE		
BU.B-IN-WELL W/CAPILLARY		
AQUASTAT	A	
TEMPERATURE & PRESSURE RELIEF VALVE		
CLEANOUT ON SUSPENDED PIPE	C.O.	C.O.
WALL CLEANOUT	WALL C.O.	
FLOOR CLEANOUT	C.O.	C.O.
GAS COCK		
SOLENOID GAS COCK	S	
UNDERGROUND GATE VALVE W/ROAD BOX		
POST INDICATOR	P.I.V.	
FIRE DEPARTMENT CONNECTION (FREE STANDING)		
FIRE HYDRANT		
EXTERIOR CLEANOUT		
SANITARY MANHOLE		
SANITARY MANHOLE W/INSIDE DROP		
SANITARY MANHOLE W/OUTSIDE DROP		
WALL HYDRANT		
SUPERVISED FLOW CONTROL VALVE (FIRE PROTECTION)		
FLOW SWITCH (FIRE PROTECTION)	F	
CONNECTION OF NEW TO EXISTING		

MECHANICAL ABBREVIATIONS

A · · · · · · · AIR
A.A. · · · · · · ANODIZED ALUMINUM
A/C · · · · · · AIR CONDITIONING
ADD · · · · · · ADDITION
A.F.F. · · · · · ABOVE FINISHED FLOOR
AHU · · · · · · AIR HANDLING UNIT
ALT · · · · · · ALTERNATE
AMB · · · · · · AMBIENT
A.P. · · · · · · ACID PROOF
APPROX. · · · · APPROXIMATE
ARV. · · · · · · AIR RELIEF VENT
AUTO · · · · · · AUTOMATIC
AV · · · · · · · ACID VENT
AVG. · · · · · · AVERAGE
AW · · · · · · · ACID WASTE

B.D.D. · · · · · BACKDRAFT DAMPER
B.F.W. · · · · · BOILER FEED WATER
BLDG. · · · · · BUILDING
B.O. · · · · · · BLOW-OFF
BSMT · · · · · · BASEMENT
B.T. · · · · · · BATH TUB
BTM. · · · · · · BOTTOM
BTUH · · · · · · BRITISH THERMAL UNIT

CAP. · · · · · · CAPACITY
C.B. · · · · · · CATCH BASIN
CEIL. · · · · · · CEILING
CFM · · · · · · CUBIC FEET PER MINUTE
C.I. · · · · · · CAST IRON
CLG · · · · · · COOLING
CLSK · · · · · · CLINICAL SERVICE SINK
C.O. · · · · · · CLEANOUT
COMP. · · · · · COMPRESSOR
CONC. · · · · · CONCRETE
COND. · · · · · CONDENSATE
CONN. · · · · · CONNECTION
CONST. · · · · CONSTRUCTION
CONT. · · · · · CONTINUOUS
CONTR. · · · · CONTRACTOR
CONV. · · · · · CONVECTOR
C.R. · · · · · · CONDENSER WATER RETURN
CS · · · · · · · CONDENSER WATER SUPPLY
C.S. · · · · · · CABINET SINK
C.U.H. · · · · · CABINET UNIT HEATER
C.W. · · · · · · COLD WATER
C.W.R. · · · · · CHILLED WATER RETURN
C.W.S. · · · · · CHILLED WATER SUPPLY

d.b. · · · · · · DECIBELS
D.B. · · · · · · DRY BULB (TEMPERATURE)
DET. · · · · · · DETAIL
D.F. · · · · · · DRINKING FOUNTAIN
DIA. · · · · · · DIAMETER
DIFF. · · · · · · DIFFUSER
DISCH. · · · · · DISCHARGE
D.L. · · · · · · DOOR LOUVER
DN. · · · · · · DOWN
D.S. · · · · · · DOWNSPOUT
DWG. · · · · · · DRAWING

E.A.T. · · · · · ENTERING AIR TEMPERATURE
E.D. · · · · · · EQUIPMENT DRAIN
E.D.R. · · · · · EQUIVALENT SQ. FT./ DIRECT RADIATION
E.F. · · · · · · EXHAUST FAN
EFF. · · · · · · EFFICIENCY
ELEV. · · · · · ELEVATION
ENCL. · · · · · ENCLOSURE
ENT. · · · · · · ENTERING
E.O.M. · · · · · END OF MAIN DRIP
EQUIP · · · · · EQUIPMENT
ESP · · · · · · EXTERNAL STATIC PRESSURE
E.W.T. · · · · · ENTERING WATER TEMPERATURE
EXH · · · · · · EXHAUST
EXIST · · · · · EXISTING
EXP · · · · · · EXPANSION
EXT · · · · · · EXTERIOR

F.A. · · · · · · FACE AREA
FCU · · · · · · FAN COIL UNIT
F.D. · · · · · · FIRE DAMPER
F.D. · · · · · · FLOOR DRAIN
F.H. CAB. · · · FIRE HOSE CABINET
FIN. · · · · · · FINISH
F.L. · · · · · · FIRE LINE
FLEX. · · · · · FLEXIBLE
FLR. · · · · · · FLOOR
F.O.G. · · · · · FUEL OIL GAUGE
F.O.R. · · · · · FUEL OIL RETURN
F.O.S. · · · · · FUEL OIL SUPPLY
F.O.V. · · · · · FUEL OIL TANK VENT
F.P.M. · · · · · FEET PER MINUTE
F&T · · · · · · FLOAT & THERMOSTATIC (TRAP)
FURN. · · · · · FURNACE
F.V. · · · · · · FACE VELOCITY

G · · · · · · · GAS
GA. · · · · · · GAUGE
GALV. · · · · · GALVANIZED
G.C. · · · · · · GENERAL CONTRACTOR
GEN. · · · · · GENERATOR
GPM · · · · · · GALLONS PER MINUTE
G.T. · · · · · · GREASE TRAP

H.B. · · · · · · HOSE BIBB
HGT · · · · · · HEIGHT
HORZ. · · · · · HORIZONTAL
H.P. · · · · · · HORSE POWER
H.P.R. · · · · · HIGH PRESSURE STEAM RETURN
H.P.S. · · · · · HIGH PRESSURE STEAM SUPPLY
HTG · · · · · · HEATING
HVAC · · · · · HEATING, VENTILATING, & AIR CONDITIONING
HW · · · · · · HOT WATER (DOMESTIC)
HWR · · · · · · HOT WATER RETURN (DOMESTIC)

I.D. · · · · · · INSIDE DIAMETER
INCIN · · · · · INCINERATOR
INCL. · · · · · INCLUDE
INSUL. · · · · · INSULATION
INT · · · · · · INTERIOR
INV. · · · · · · INVERT

J.D. · · · · · · JANITORS DRAIN

K.W. · · · · · · KILOWATT

L.A.T. · · · · · LEAVING AIR TEMPERATURE
LAV. · · · · · · LAVATORY
LBS/HR · · · · POUNDS PER HOUR
L.C. · · · · · · LAVATORY IN CABINET
L.F. · · · · · · LINEAR FEET
LOC. · · · · · · LOCATION
L.P.R. · · · · · LOW PRESSURE STEAM RETURN
L.P.S. · · · · · LOW PRESSURE STEAM SUPPLY
LVG. · · · · · · LEAVING
L.W.T. · · · · · LEAVING WATER TEMPERATURE

MAX. · · · · · MAXIMUM
MBH · · · · · · THOUSANDS OF BTU/HR
M.C.C. · · · · · MOTOR CONTROL CENTER
MECH · · · · · MECHANICAL
M.F. · · · · · · MIXING FAUCET
MFR. · · · · · · MANUFACTURER
M.H. · · · · · · MANHOLE
MIN. · · · · · · MINIMUM
MISC. · · · · · MISCELLANEOUS
M.P.R. · · · · · MEDIUM PRESSURE STEAM RETURN
M.P.S. · · · · · MEDIUM PRESSURE STEAM SUPPLY
MTD. · · · · · · MOUNTED

N.C. · · · · · · NORMALLY CLOSED
NEG. · · · · · · NEGATIVE
N.I.C. · · · · · NOT IN CONTRACT
N.O. · · · · · · NORMALLY OPEN
N.T.S. · · · · · NOT TO SCALE

Ø · · · · · · · PHASE
O.A. · · · · · · OUTSIDE AIR
O.D. · · · · · · OUTSIDE DIAMETER
O.F.D. · · · · · OVERFLOW ROOF DRAIN
OPNG. · · · · · OPENING
OPP. · · · · · · OPPOSITE
ORIG. · · · · · ORIGINAL

P.D. · · · · · · PRESSURE DROP
P.E. · · · · · · PNEUMATIC ELECTRIC
P.I.V. · · · · · POST INDICATOR VALVE
PREFAB. · · · · PREFABRICATED
PRESS. · · · · · PRESSURE
PROP. · · · · · PROPELLER
P.R.V. · · · · · PRESSURE REDUCING VALVE
P.S.I.A. · · · · POUNDS PER SQUARE INCH (ABSOLUTE)
P.S.I.G. · · · · POUNDS PER SQUARE INCH (GAUGE)
P.U.H. · · · · · PROPELLER UNIT HEATER

R · · · · · · · HOT WATER RETURN (HVAC)
R.A. · · · · · · RETURN AIR
RAD. · · · · · · RADIATION
R.D. · · · · · · ROOF DRAIN
REC. · · · · · · RECEIVER
RECIR. · · · · · RECIRCULATING
RECT. · · · · · RECTANGULAR
REG. · · · · · · REGISTER
REINF. · · · · · REINFORCED
REL. · · · · · · RELIEF
RET. · · · · · · RETURN
REQD. · · · · · REQUIRED
R.H. · · · · · · RODDING HOLE
R.H. · · · · · · RELATIVE HUMIDITY
RM · · · · · · · ROOM
R.P.M. · · · · · REVOLUTIONS PER MINUTE

S · · · · · · · HOT WATER SUPPLY (HVAC)
S.A. · · · · · · SOUND ATTENUATOR
SAN. · · · · · · SANITARY
S.C. · · · · · · SILL COCK
SCW · · · · · · SOFT COLD WATER
S.D. · · · · · · SHOWER DRAIN
SECT. · · · · · SECTION
S.H. · · · · · · SHOWER HEAD
SHT · · · · · · SHEET
SK. · · · · · · SINK
S.P. · · · · · · STATIC PRESSURE
SPEC. · · · · · SPECIFICATIONS
SPR · · · · · · SPRINKLER
SQ. · · · · · · SQUARE
S.S. · · · · · · STAINLESS STEEL
ST. · · · · · · STORM
STAT. · · · · · THERMOSTAT
STD. · · · · · · STANDARD
STM · · · · · · STEAM
STR · · · · · · STRUCTURAL
SUP. · · · · · · SUPPLY
SUSP · · · · · SUSPENDED

T.D. · · · · · · TEMPERATURE DIFFERENCE
TEMP · · · · · TEMPERATURE
TOT · · · · · · TOTAL
T.S.P. · · · · · TOTAL STATIC PRESSURE
T.W. · · · · · · TEMPERED WATER
TYP. · · · · · · TYPICAL

U.C. · · · · · · UNDERCUT
U.H. · · · · · · UNIT HEATER
UR · · · · · · URINAL
U.V. · · · · · · UNIT VENTILATOR

V · · · · · · · VENT
VA · · · · · · VALVE
VAC. · · · · · VACUUM
V.D. · · · · · · VOLUME DAMPER
VEL. · · · · · VELOCITY
VENT. · · · · · VENTILATOR
V.T. · · · · · · VITRIFIED TILE
V.T.R. · · · · · VENT THRU ROOF

W · · · · · · · WASTE
W/ · · · · · · WITH
W.B. · · · · · · WET BULB (TEMPERATURE)
W.C. · · · · · · WATER CLOSET
W.F.R. · · · · · WALL FIN RADIATION
W/O · · · · · · WITHOUT
W.P. · · · · · · WEATHERPROOF
WT. · · · · · · WEIGHT
WTR. · · · · · · WATER

SHEETMETAL SYMBOLS

	SUPPLY DUCT (SECTION)		RETURN, EXHAUST, RELIEF OR INTAKE DUCT (SECTION)
24"X12"	RECTANGULAR DUCT (1ST FIG. SIDE SHOWN; 2ND FIG. SIDE NOT SHOWN)	12"ø	ROUND DUCT (FIG. INDICATED DIAMETER)
18"X12"	FLAT OVAL DUCT (1ST FIG. SIDE SHOWN; 2ND FIG. SIDE NOT SHOWN)	8"ø OR	FLEXIBLE DUCT
D or R	CHANGE IN ELEVATION OF DUCT (R) RISE (D) DROP ARROW INDICATES DIRECTION		TURNING VANES
	AIR DIVERTER (EXTRACTOR)		MANUAL SPLITTER DAMPER
VD	VOLUME DAMPER	M	MOTORIZED DAMPER
BDD	BACKDRAFT DAMPER	FD SD RD	FIRE DAMPER (FD) SMOKE DAMPER (SD) RADIATION DAMPER (RD)
24"X12"	DUCT SIZE INSIDE RECTANGLE INDICATES DUCT TO BE DOUBLE WALL WITH SOLID INNER LINER		FLEXIBLE CONNECTION
	SUPPLY AIR DIRECTION		EXHAUST OR RETURN INLET (NOMINAL SIZE, TYPE, & AIR QUANTITY IN CFM INDICATED)
	RETURN, EXHAUST, OR RELIEF AIR DIRECTION		
24"X8" 400	SUPPLY OUTLET (NOMINAL SIZE, TYPE * AIR QUANTITY INDICATED)	24"X8" 400 (+12")	ALL UNITS LOCATED IN OR NEAR CEILING, UNLESS DIMENSION SHOWN INDICATING (HEIGHT A.F.F.)
12"ø 600	ROUND DIFFUSER (NECK DIAMETER, TYPE, & AIR QUANTITY IN CFM INDICATED)	8"X8" 300	SQUARE DIFFUSER (NECK SIZE, TYPE & AIR QUANTITY IN CFM INDICATED)
350	LINEAR DIFFUSER, LINEAR GRILLE (TYPE & AIR QUANTITY INDICATED)	8"X8" 300 (3-WAY)	ALL DIFFUSERS EXCEPT LINEAR TYPE ARE 4-WAY UNLESS OTHERWISE INDICATED
T TC TN TG TH	(T) THERMOSTAT, W/(E) ELEC. STAT., W/ (N) NIGHT STAT., W/ (G) GUARDED STAT., (H) HUMIDISTAT		POWER OR GRAVITY ROOF VENTILATOR
UC 1/2" 100	DOOR, UNDERCUT (SIZE & AIR QUANTITY IN CFM INDICATED)	DG 1 600	DOOR GRILLE (FREE AREA REQUIRED & AIR QUANTITY IN CFM INDICATED)

MECHANICAL GENERAL NOTES:

1. M.C. SHALL REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATING TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
2. THESE DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION FOR PIPING, DUCTWORK, CONDUIT, ETC. THE EQUIPMENT SHOWN ILLUSTRATES SUGGESTED ROUTING, BUT ALL NECESSARY OFFSETS MAY NOT BE SHOWN. CONTRACTOR SHALL INSTALL HIS WORK IN A MANNER THAT WILL CONFORM WITH THE STRUCTURE. CONTRACTOR SHALL AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND MAINTAIN MAXIMUM CLEARANCE WITHOUT FURTHER INSTRUCTION FROM THE ENGINEER OR ADDITIONAL COST TO THE OWNER.
3. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE CEILINGS AND WITHIN WALLS IN FINISHED AREAS UNLESS OTHERWISE INDICATED.
4. ALL VALVES, COILS, DAMPERS, ETC., SHALL BE INSTALLED ALLOWING EASY ACCESS TO THEM. AREAS ADJACENT TO THE ACCESS PANELS SHALL BE CLEAR OF ANY OBSTRUCTIONS.
5. CONTRACTOR SHALL BE GUIDED BY THE ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES SHOWN OR COVERED BY THESE DRAWINGS.
6. ARROWS ON THE HOT WATER AND CHILLED WATER MAINS INDICATE THE DIRECTION OF FLOW. PITCH MAINS UPWARD A MINIMUM OF 1" PER 50'-0" IN THE DIRECTION OF FLOW. ARROWS ON STEAM AND CONDENSATE PIPING AND DRAIN LINES INDICATE THE DOWNWARD PITCH OF THE PIPING.
7. INSTALL AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS OF WATER PIPING SYSTEMS.
8. PIPING BRANCHES TO EQUIPMENT SHALL HAVE THE SAME SIZE VALVES AND FITTINGS AS THAT OF THE LINE SIZE WITH THE EXCEPTION OF TEMPERATURE CONTROL VALVES AND STEAM TRAPS.
9. PIPE "SWING" CONNECTIONS, WITH UNIONS OR FLANGES, SHALL BE MADE EXTERNAL TO COILS OR A TUBE BUNDLE TO FACILITATE REMOVAL OF THAT ITEM WITHOUT DISTURBING THE BRANCH VALVES AND/OR PIPING.
10. TRAPS, VALVES AND FITTINGS SERVING ENCLOSED HEATING AND/OR COOLING UNITS SHALL BE CONCEALED IN THE CABINET OR ENCLOSURE BEHIND AN ACCESS DOOR.
11. ALL GATE VALVES, STRAINERS, PIPING AND FITTINGS IN TEMPERATURE CONTROL VALVE STATIONS AND PRESSURE REDUCING VALVE STATIONS SHALL BE ONE PIPE SIZE LARGER THAN CONTROL OR REDUCING VALVES.
12. ALL EXPANSION LOOPS (STEAM AND WATER) SHALL BE "COLD SPRUNG" UNLESS OTHERWISE NOTED.
13. DUCTS PENETRATING FLOOR SLABS AND (OR) WALLS SHALL BE SEALED AS REQUIRED BY CODE. DUCTS PENETRATING FIRE RATED WALL AND (OR) FLOOR SHALL HAVE OPENING AROUND DUCT SEALED WITH A MATERIAL HAVING THE SAME FIRE RATING AS THE WALL OR FLOOR.
14. ALL RECTANGULAR SHEETMETAL DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS. ALLOWANCE FOR ACOUSTICAL LINER WHERE INDICATED ON DRAWINGS MUST BE ADDED TO OBTAIN OUTSIDE DIAMETER SHEETMETAL DIMENSION.
15. INSTALL VOLUME DAMPER AT EACH BRANCH TAKE-OFF FROM MAIN SUPPLY DUCTS.
16. INSTALL VOLUME DAMPER AT EACH ZONE CONNECTED TO ZONING TYPE AIR HANDLING UNIT.
17. ALL WALL THERMOSTATS, TEMPERATURE SENSORS, AND (OR) HUMIDISTATS SHALL BE APPROXIMATELY 4'-7" ABOVE FINISHED FLOOR TO BOTTOM AND LINED UP VERTICALLY WITH LIGHT SWITCHES UNLESS OTHERWISE NOTED OR DIRECTED BY THE ARCHITECT.
18. PROVIDE MINIMUM 10'-0" SEPARATION BETWEEN SEWER AND WATER LINES. IF 10'-0" SEPARATION CANNOT BE MAINTAINED, THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE CAST IRON PIPE WITH MECHANICAL JOINTS.
19. PROVIDE MINIMUM 1'-6" VERTICAL DISTANCE WHERE WATER AND SEWER LINES CROSS EACH OTHER. IF 1'-6" DISTANCE CANNOT BE MAINTAINED, THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE CAST IRON PIPE WITH MECHANICAL JOINTS WITHIN 10'-0" OF THE WATER LINE.
20. NO PLASTIC WATER LINES SHALL BE USED.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
22. SHEETMETAL FABRICATION DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEER. THE FABRICATION DRAWINGS SHALL INCLUDE ANY CHANGE NOTED AND APPROVED BY THE ARCHITECT/ENGINEER. THE FABRICATION OF DRAWINGS SHALL BE COORDINATED WITH THE ELECTRICAL, STRUCTURAL, PLUMBING AND PIPING WORK INCLUDING CEILING HEIGHT AND DOORS (INCLUDING OVERHEAD DOORS) BEFORE SUBMITTAL. REWORK OF ELECTRICAL, PIPING, OR DUCTWORK BECAUSE OF CONFLICTS WILL BE CONSIDERED AS A PART OF THIS CONTRACT.
23. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL OF HIS WORK TO BE INSTALLED WITH ANY AND ALL OTHER CONTRACTORS TO BE AFFECTED BY SUCH WORK, PRIOR TO ORDERING ANY OF THE EQUIPMENT. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ELECTRICAL CHARACTERSTICS, CONNECTIONS REQUIRED, PHYSICAL SIZE, COLOR AND FIT. ALSO SEE SPECIFICATIONS.
24. ALL EQUIPMENT SHALL BE OF, AND CONSIST OF, AT LEAST THE MINIMUM SIZES SELECTED, AND SHALL PERFORM TO OR SURPASS THE MINIMUM REQUIREMENTS, SCHEDULES, NOTED, AND SPECIFIED.
25. ALL EXISTING EQUIPMENT, DUCTWORK, AND PIPING LOCATIONS AND SIZES OF ITEMS TO BE REMOVED OR REUSED SHALL BE FIELD VERIFIED BY THIS CONTRACTOR AT THE JOB SITE. THIS ALSO INCLUDES ITEMS THAT MAY CONFLICT WITH NEW WORK.

WILLIAM L. MCGUIRE REGISTERED #16114 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED

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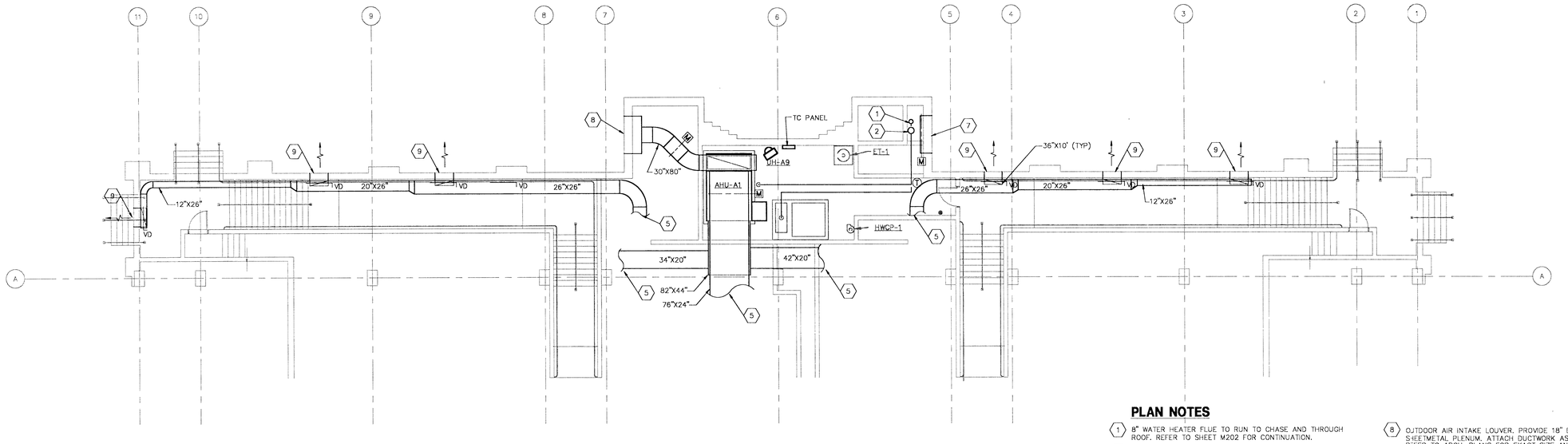
REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: MAY 31, 1994
drawn by: PJD, KCS
checked by: WLM

MP101

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVISTIONS



FOOTBALL STADUIM INTERIOR RAMP HVAC PLAN

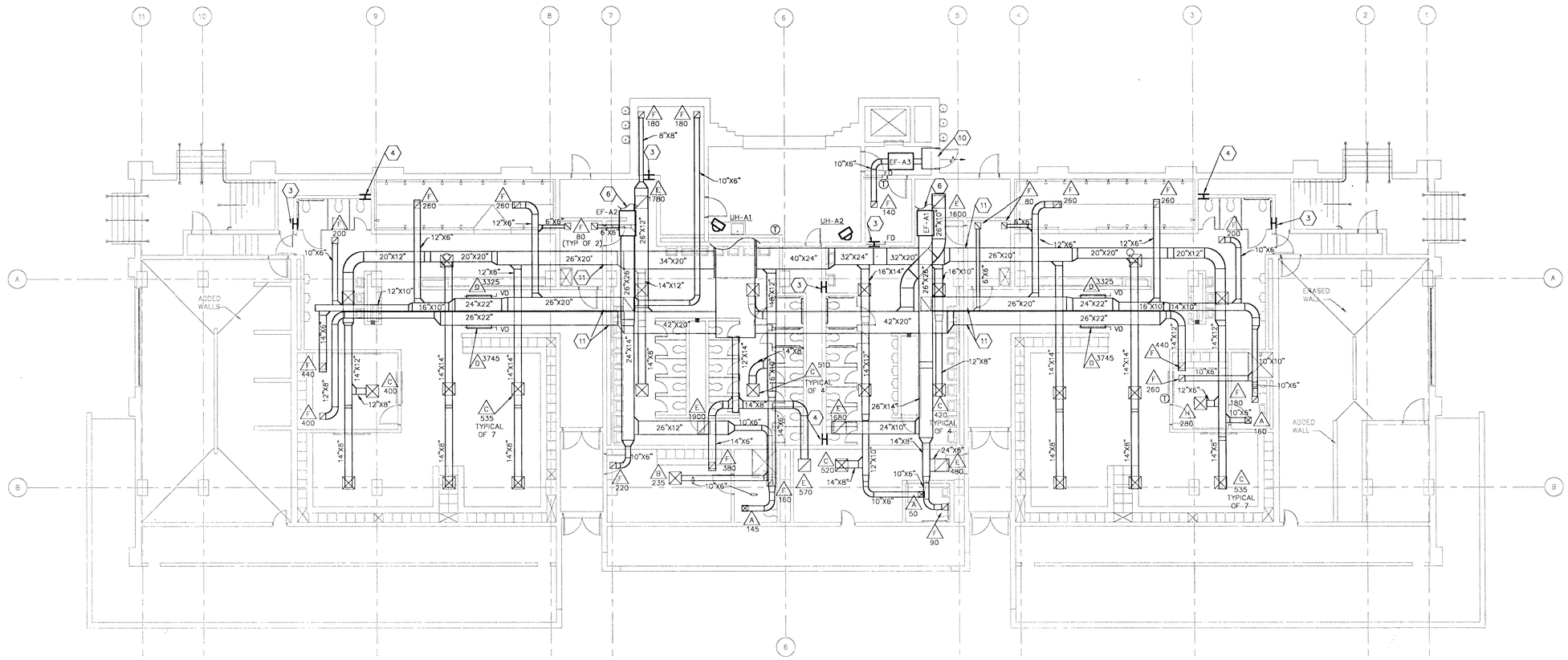
SCALE 1/8" = 1'-0"

GENERAL NOTES

1. MECHANICAL EQUIPMENT TO BE LOCATED AS TIGHT TO STRUCTURE AS POSSIBLE
2. MANUAL VOLUME DAMPERS TO BE PROVIDED FOR EACH GRILLE AND DIFFUSER TAKE-OFF.
3. FIRE DAMPERS TO BE PROVIDED AT ALL LOCATIONS WHERE DUCTWORK PENETRATES A FIRE BARRIER.
4. GRILLES & DIFFUSERS LOCATED IN AREAS WITHOUT CEILINGS TO BE LOCATED 12'-0" AFF. IF THIS IS NOT POSSIBLE BECAUSE OF STRUCTURE, INSTALL AS TIGHT TO BOTTOM OF STRUCTURE AS POSSIBLE.

PLAN NOTES

1. 8" WATER HEATER FLUE TO RUN TO CHASE AND THROUGH ROOF. REFER TO SHEET M202 FOR CONTINUATION.
2. 12" ø GAS FLUE TO RUN TO CHASE AND THROUGH ROOF. REFER TO SHEET M202 FOR CONTINUATION.
3. INSTALL GRILLES 6" AFF., TYPE 'G', TYPICAL OF 2.
4. INSTALL GRILLES 6" BELOW FINISHED CEILING, TYPE 'G', TYPICAL OF 2.
5. FOR CONTINUATION OF DUCT, REFER TO FOOTBALL STADUIM FLOOR PLAN ON THIS SHEET.
6. FOR CONTINUATION OF DUCT REFER TO FOOTBALL STADIUM INTERIOR RAMP PLAN ON THIS SHEET.
7. COMBUSTION AIR LOUVER TO CONSIST OF FOUR 12" DEEP SEPERATE PLENUMS. TWO 2.5 SF. OF LOUVER FREE AREA ONE HIGH & ONE LOW WITH A MOTOR OPERATED DAMPER ON EACH PLENUM TIED TO THE AIR HANDLER. TWO 1.2 SF. OF LOUVER FREE AREA ONE HIGH & ONE WITH A MOTOR OPERATED DAMPER ON EACH PLENUM TIED TO THE DOMESTIC WATER HEATER. REFER TO ARCH. PLANS FOR EXACT SIZE AND LOCATION OF LOUVER.
8. OUTDOOR AIR INTAKE LOUVER. PROVIDE 18" DEEP SHEETMETAL PLENUM. ATTACH DUCTWORK AS SHOWN. REFER TO ARCH. PLANS FOR EXACT SIZE AND LOCATION OF LOUVER.
9. EXHAUST AIR LOUVER. PROVIDE CONNECTION TO EXHAUST DUCTWORK AS SHOWN. REFER TO ARCH. PLANS FOR EXACT SIZE AND LOCATION OF LOUVER.
10. ELEVATOR EQUIPMENT ROOM EXHAUST LOUVER. PROVIDE 18" DEEP SHEETMETAL PLENUM. ATTACH DUCTWORK AS SHOWN. REFER TO ARCH. PLANS FOR EXACT SIZE AND LOCATION OF LOUVER.
11. DUCTWORK TO RUN UNDER INTERIOR RAMP AS TIGHT TO THE BOTTOM OF THE RAMP STRUCTURE AS POSSIBLE.



FOOTBALL STADUIM HVAC PLAN

SCALE 1/8" = 1'-0"

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: KCS

checked by: WLM

M201

GRANDSTAND HVAC PLAN

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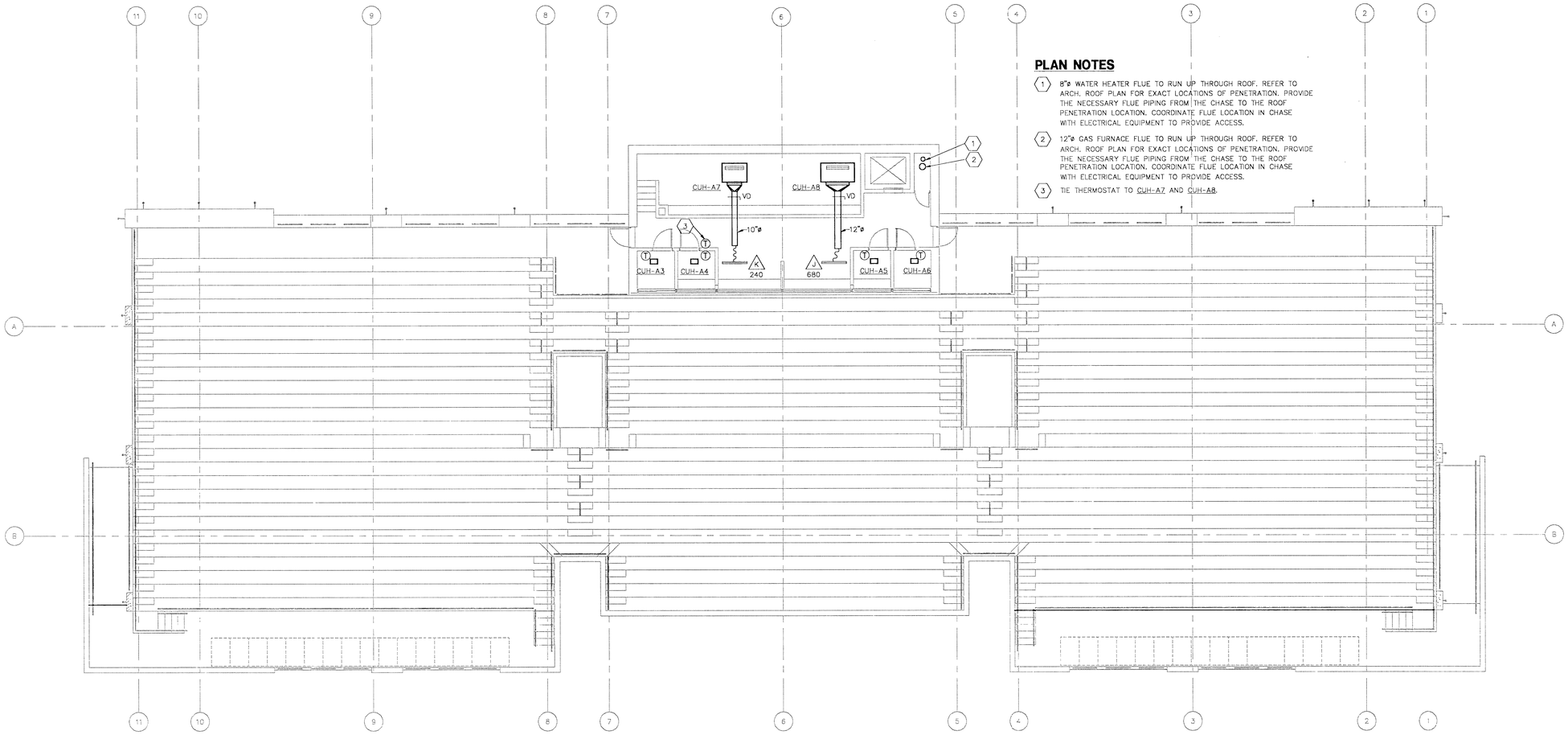
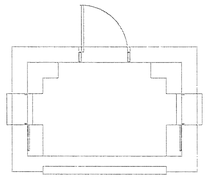


PLAN NOTES

1. 8"ø WATER HEATER FLUE TO RUN UP THROUGH ROOF. REFER TO ARCH. ROOF PLAN FOR EXACT LOCATIONS OF PENETRATION. PROVIDE THE NECESSARY FLUE PIPING FROM THE CHASE TO THE ROOF PENETRATION LOCATION. COORDINATE FLUE LOCATION IN CHASE WITH ELECTRICAL EQUIPMENT TO PROVIDE ACCESS.
2. 12"ø GAS FURNACE FLUE TO RUN UP THROUGH ROOF. REFER TO ARCH. ROOF PLAN FOR EXACT LOCATIONS OF PENETRATION. PROVIDE THE NECESSARY FLUE PIPING FROM THE CHASE TO THE ROOF PENETRATION LOCATION. COORDINATE FLUE LOCATION IN CHASE WITH ELECTRICAL EQUIPMENT TO PROVIDE ACCESS.
3. TIE THERMOSTAT TO CUH-A7 AND CUH-A8.

PRESS BOX HVAC PLAN

SCALE 1/8" = 1'-0"

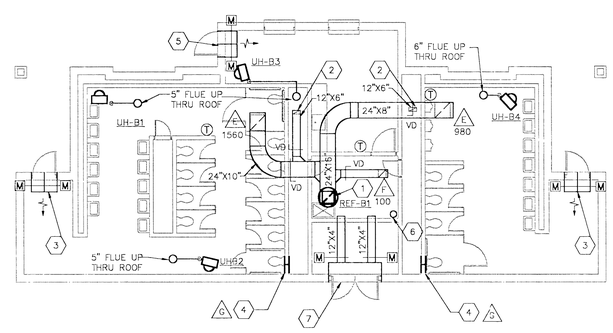


PLAN NOTES

1. 18"X18" EXHAUST DUCT UP TO REF-B1. PROVIDE BACKDRAFT DAMPER AND BIRDSCREEN WITH EXHAUST FAN.
2. 12"X6" EXHAUST DUCT DOWN TO 6" AFF. INSTALL 10"X6" EXHAUST GRILLE TYPE 1' 8" AFF, 100 CFM.
3. PROVIDE TWO 18" DEEP SHEET METAL PLENUMS AND MOTOR OPERATED DAMPERS CONNECTED TO INTAKE/COMBUSTION LOUVER. TIE TO REF-B1 AND UNIT HEATERS. REFER TO ARCH. PLANS FOR EXACT DIMENSION OF LOUVER.
4. TRANSFER AIR GRILLE. LOCATE TOP OF GRILLE 6" BELOW FINISHED CEILING TYP. OF 2.
5. PROVIDE TWO 18" DEEP SHEET METAL PLENUMS AND MOTOR OPERATED DAMPERS CONNECTED TO INTAKE/COMBUSTION LOUVER. TIE TO UNIT HEATER UH-B3. REFER TO ARCH. PLANS FOR EXACT DIMENSION OF LOUVER.
6. 4"ø FLUE FROM WATER HEATER TO RUN UP THRU ROOF. REFER TO ARCH. ROOF PLAN FOR EXACT LOCATION OF PENETRATION. PROVIDE ALL FLUE PIPING NECESSARY FROM THE WATER HEATER TO ROOF PENETRATION LOCATION..
7. PROVIDE 18" DEEP SHEET METAL PLENUM TWO 12"X4" DUCTS TO STUB INTO ROOM AND TWO MOTOR OPERATED DAMPERS CONNECTED TO INTAKE/COMBUSTION LOUVER. TIE TO DOMESTIC WATER HEATER. REFER TO ARCH. PLANS FOR EXACT DIMENSION OF LOUVER.

GENERAL NOTES

1. ALL THERMOSTATS TO HAVE NON-ADJUSTABLE TAMPER RESISTANT COVERS.
2. EXHAUST FAN TO HAVE A MANUAL ON/OFF SWITCH LOCATED IN JANITOR/MECH. RM.



VISITOR TOILET & CONCESSION HVAC PLAN

SCALE 1/8" = 1'-0"

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: MAY 31, 1994
drawn by: KCS
checked by: WLM

M202

VISITOR TOILET/ CONCESSION & PRESS BOX HVAC PLAN

UNIT HEATER SCHEDULE

NO.	LOCATION	STYLE UH	STYLE CUH	FAN CFM	FAN S.P.	INPUT MBH	OUTPUT MBH	°F RISE	WATTS	UNIT AMPS	MOTOR HP	MOTOR RPM	MOTOR VOLTS	MOTOR PHASE	MOUNTING ARRANGMENT	NOTES	MANUFACTURER
A1	A112	xx		400	-	-	11.2	26	3300	15.9	1/125	1550	277	1	SIDEWALL	3	TRANE UHEC-031
A2	A112	xx		400	-	-	11.2	26	3300	15.9	1/125	1550	277	1	SIDEWALL	3	TRANE UHEC-031
A3	A126		xx	65	-	-	6.8	92	2000	8.4	-	-	208	1	CEILING RECESSED		Q-MARK CWH-202-1
A4	A127		xx	65	-	-	6.8	92	2000	8.4	-	-	208	1	CEILING RECESSED		Q-MARK CWH-202-1
A5	A124		xx	65	-	-	6.8	92	2000	8.4	-	-	208	1	CEILING RECESSED		Q-MARK CWH-202-1
A6	A125		xx	65	-	-	6.8	92	2000	8.4	-	-	208	1	CEILING RECESSED		Q-MARK CWH-202-1
A7	A123		xx	680	0.15	-	51.2	70	15000	6.8	1/12	710	115	1	HORIZONTAL RECESSED	2	TRANE E366E00B
A8	A123		xx	680	0.15	-	51.2	70	5620	18	1/12	710	115	1	HORIZONTAL RECESSED	2	TRANE E366E00B
A9	MEZZANNE	xx		1800	-	-	85.3	44	25000	69.5	1/12	1550	480	2	SIDEWALL	3	TRANE UHEC-253
B1	B102	xx		1480	-	100	80	50	-	5.8	1/20	1050	115	1	SIDEWALL	1	TRANE GHND-010
B2	B102	xx		1480	-	100	80	50	-	5.8	1/20	1050	115	1	SIDEWALL	1	TRAND GHND-010
B3	B101	xx		1050	-	60	48	42	-	4.5	1/30	1050	115	1	SIDEWALL	1	TRANE GHND-006
B4	B105	xx		2200	-	150	120	50	-	7.2	1/4	1140	115	1	SIDEWALL	1	TRAND GHND-015

NOTES:
1. FLUE VENT FAN MOTORS USED ON THIS UNIT IS 115\60\1, 1/20HP, 1.5.
2. 480 V, 3 PHASE, 3 WIRE ELECTRIC COIL.
3. UNIT TO BE TOTAL ELECTRIC.

EXHAUST FAN SCHEDULE

FAN NO.	AREA SERVED	CFM	EXT. S.P. "W.C.	FAN MOTOR HP	FAN RPM	DRIVE	SOUND LEVEL SONES	FAN OPER. *	NOTES	MANUFACTURER
A1	VISITOR SIDE	6815	1.0	5	1215	BELT	23	M	1, 3	GREENHECK BSQ-240HP-50
A2	HOME SIDE	7025	1.0	5	1220	BELT	23	M	1, 3	GREENHECK BSQ-240HP-50
A3	A114	140	0.5	1/4	1390	BELT	10	T	1, 4	GREENHECK BSQ-70-4
B1	B101, B102, B105	2840	1875	3/4	1020	BELT	12	M	1,2,4	GREENHECK GB180-7

* C - CONTINUOUS DAY AND NIGHT OPERATION.
M - MANUALLY STARTED, OPERATION "AS-REQUIRED".
N - ON NIGHT SET-BACK, CONTINUOUS DAYTIME OPERATION.
T - CONTROL WITH ROOM TEMPERATURE SENSOR.

NOTES:
1. BACKDRAFT DAMPER
2. BIRDSCREEN
3. 480V, 3 PH
4. 120V, 1 PH

GRILLES, REGISTERS AND DIFFUSERS

TYPE △	STYLE	DESCRIPTION	MAX. NC	NOTES	MANUFACTURER / MODEL
A	DIFFUSER	12"X12" MODULE, 12"X12" FACE, 6"ø	25	1	TITUS TMS
B	DIFFUSER	24"X24" MODULE, 24"X24" FACE, 8"ø	25	1	TITUS TMS
C	DIFFUSER	24"X24" MODULE, 24"X24" FACE, 12"ø	25	1	TITUS TMS
D	GRILLE	48"X18" FACE, 1/2" SPACING, 38° DEF.	25	1	TITUS 33RL
E	GRILLE	24"X24" EGGCRATE, 1/2"X1/2"X1/2" ALUM. GRID	25	1	TITUS 50F
F	GRILLE	12"X12" EGGCRATE, 1/2"X1/2"X1/2" ALUM. GRID	25	1	TITUS 50F
G	GRILLE	14"X8" FACE, 3/4" SPACING, 35° DEF.	25	1	TITUS 350RL
H	DIFFUSER	24"X24" MODULE, 24"X24" FACE, 10"ø	25	1	TITUS TMS
I	GRILLE	10"X6" FACE, 3/4" SPACING, 35° DEF.	25	1	TITUS 350RL
J	DIFFUSER	1 1/2" SLOT, 4 SLOTS, 48" LONG, 12"ø OVAL	30	1	TITUS TBD-80
K	DIFFUSER	1 1/2" SLOT, 4 SLOTS, 48" LONG, 8"ø	25	1	TITUS TBD-80

NOTES: 1. PROVIDE A MANUAL VOLUME DAMPER FOR EACH GRILLE & DIFFUSER AT THE TAKE-OFF.

MAKE-UP AIR HANDLING UNIT

UNIT NO.	MODEL NO.	TYPE OF UNIT	CFM TOTAL	CFM O.A.	TOTAL S.P.	INTERN. S.P.	FAN DATA RPM	FAN DATA HP	FAN DATA VOLT	FAN DATA PH	HEATING DATA OUTPUT MBH	HEATING DATA INPUT MBH	HEATING DATA RISE °F	HEATING DATA FUEL	UNIT NO.	NOTES	MANUFACTURER
AHU-A1	SDF-1500MFH	INDIRECT FIRED INDOOR	13000	13000	1.41	0.41	802	10	480	3	1404	1875	100	GAS	AHU-A1	1	JACKSON & CHURCH

NOTES: 1. 2" THROW-AWAY FLAT FILTERS AND FILTER SECTION.

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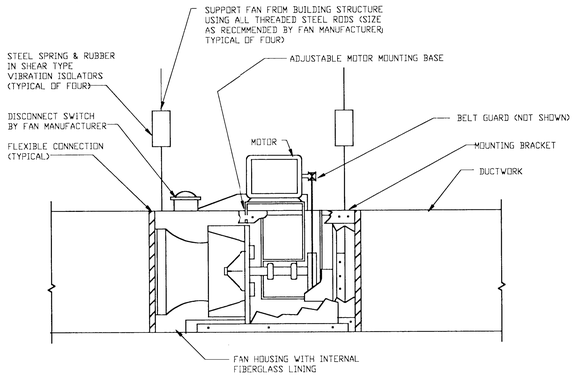
REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: MAY 31, 1994
drawn by: KCS
checked by: WLM

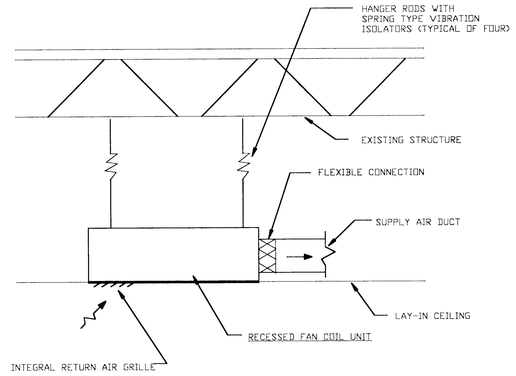
M301

HVAC SCHEDULES



CENTRIFUGAL IN-LINE FAN DETAIL

NO SCALE



RECESSED CABINET UNIT HEATER DETAIL

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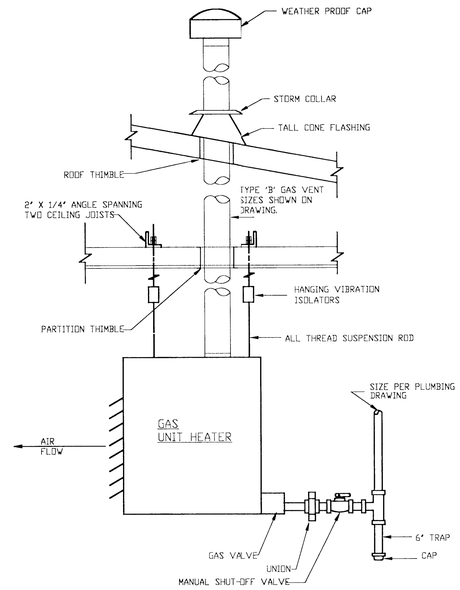

GAS UNIT HEATER DETAIL

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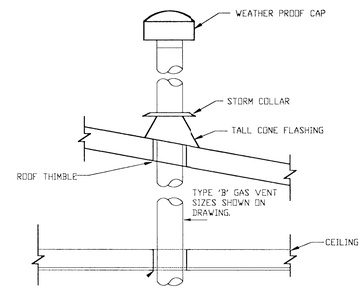

AIR HANDLING UNIT & WATER HEATER FLUE DETAIL

NO SCALE

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: MAY 31, 1994
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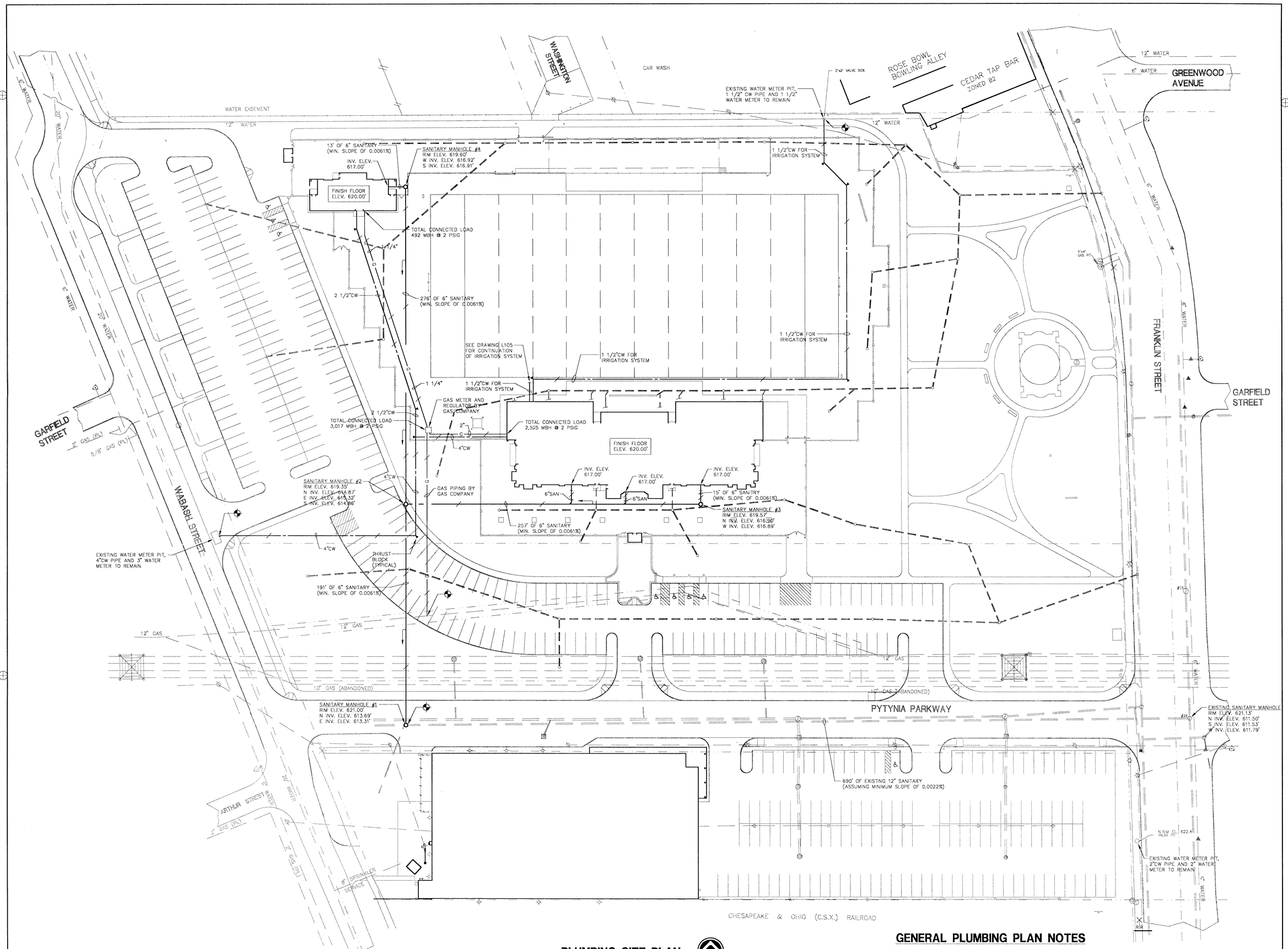
M302

HVAC DETAILS



PLUMBING SITE PLAN

SCALE: 1" = 30'-0"

NORTH

GENERAL PLUMBING PLAN NOTES

1. CONTRACTOR TO FIELD VERIFY ALL INVERT ELEVATIONS PRIOR TO INSTALLATION
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATING.

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DATE: MAY 31, 1994

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PLUMBING SITE PLAN

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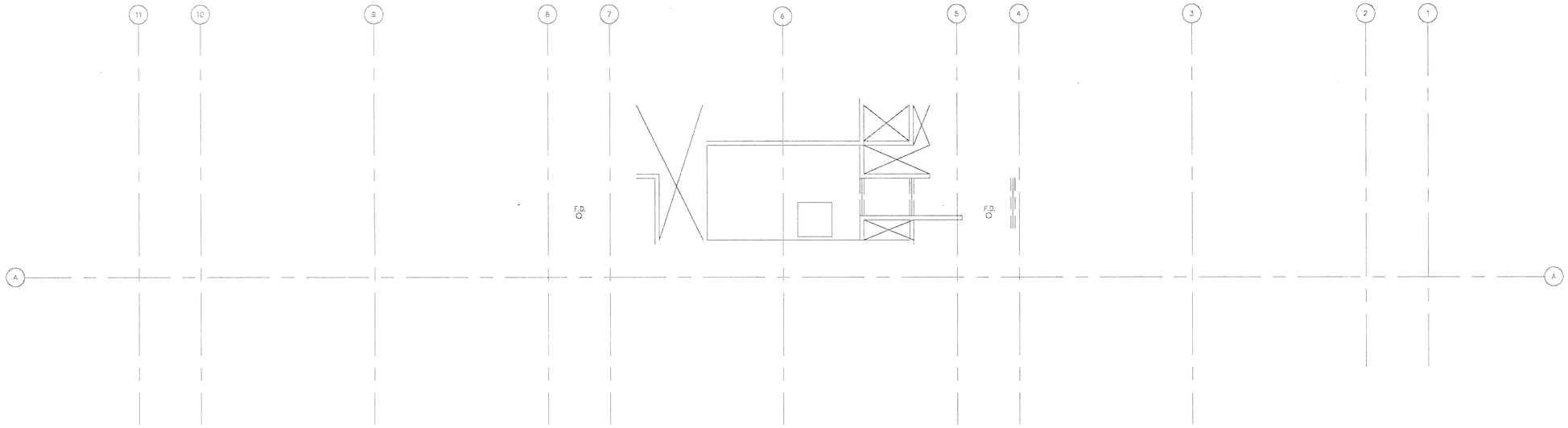

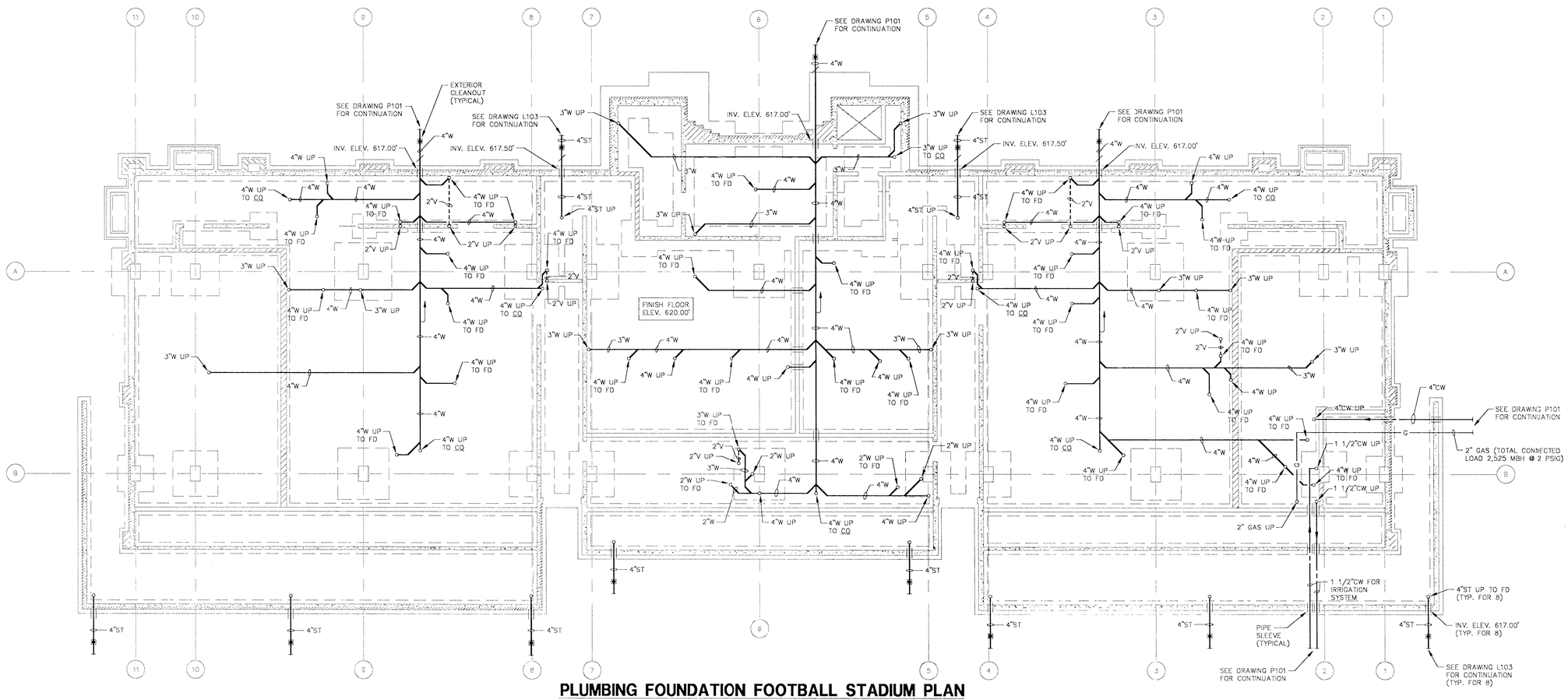

PLUMBING FOUNDATION FOOTBALL STADIUM PLAN

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

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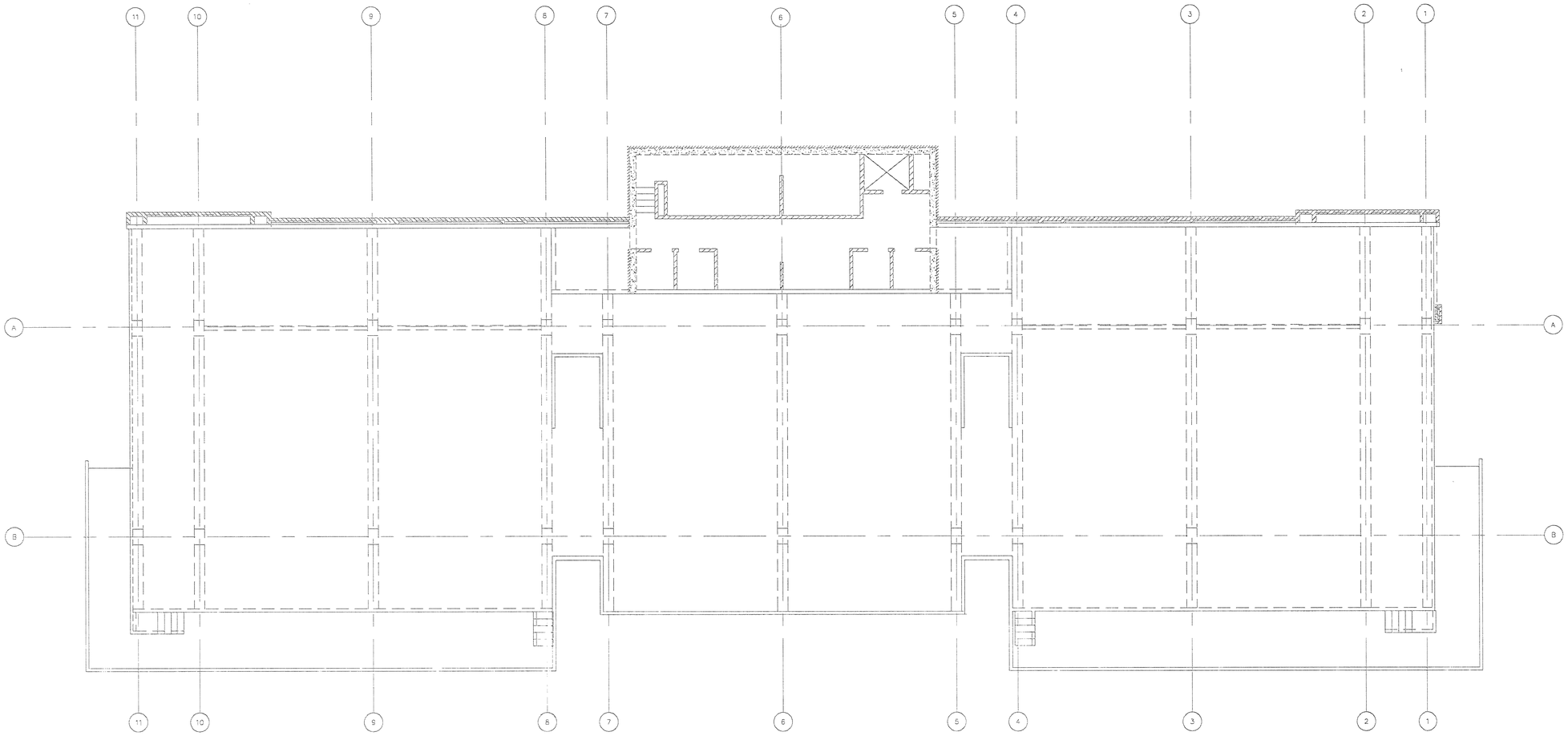
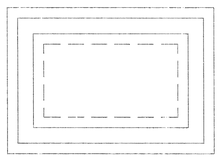
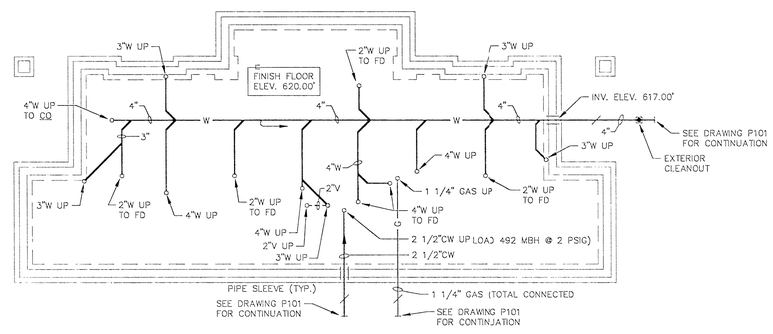
PLUMBING FOUNDATION FOOTBALL STADIUM PLAN







PLUMBING FOUNDATION VISITOR TOILET AND CONCESSION PLAN

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

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P202

PLUMBING FOUNDATION VISITOR TOILET AND CONCESSION PLAN

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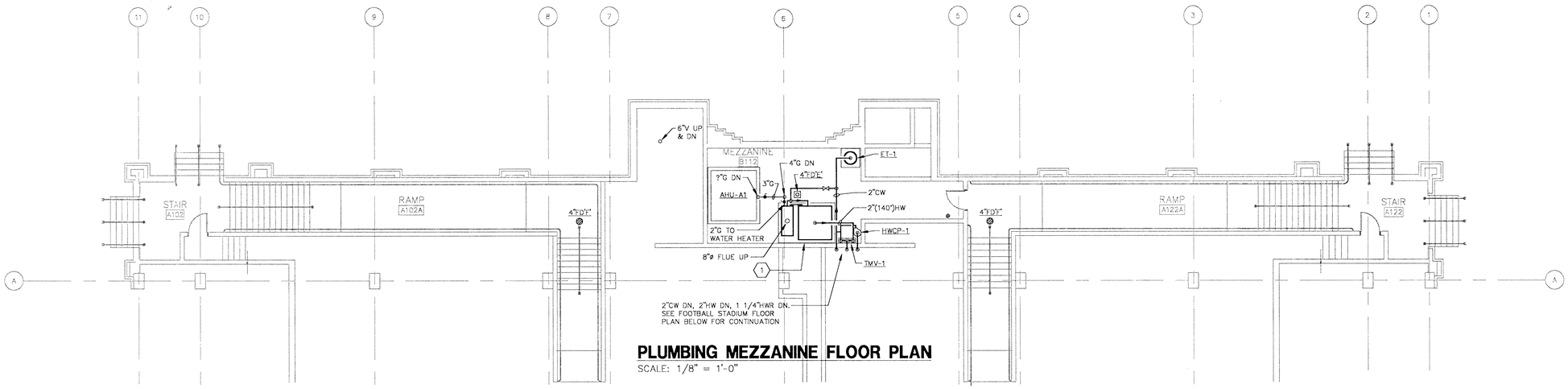


PLUMBING MEZZANINE FLOOR PLAN

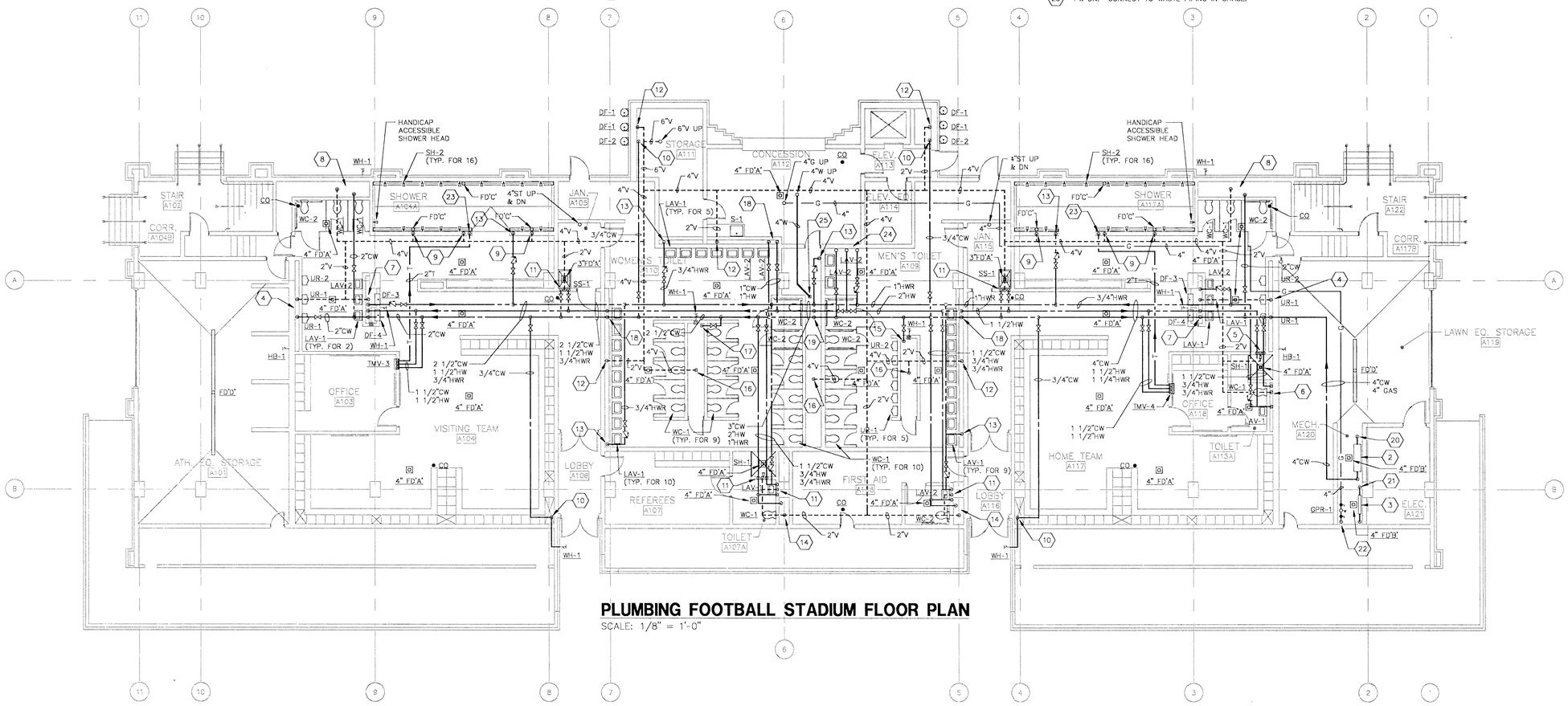
SCALE: 1/8" = 1'-0"

GENERAL PLUMBING PLAN NOTES

1. SLOPE ALL DOMESTIC WATER PIPING TO ALLOW FOR OFF-SEASON DRAIN DOWN.
2. IN OFF-SEASON PERIODS WHEN THE HEATING SYSTEMS ARE TURNED OFF AND ALL DOMESTIC WATER LINES ARE DRAINED, ALL FLUSH VALVE FIXTURES SHALL BE FLUSHED AND ALL PLUMBING FIXTURE TRAPS SHALL BE FILLED WITH ANTI-FREEZE.

PLUMBING PLAN NOTES

1. WATER HEATER (DWH-1). SEE DETAIL ON DRAWING P502.
2. BFP-1. SEE DETAIL ON DRAWING P502.
3. BFP-2. SEE DETAIL ON DRAWING P502.
4. 2"CW DN. 2"V RISE. 3"W DN. PROVIDE WHA 'B' ON COLD WATER BRANCH BEFORE LAST FIXTURE CONNECTION.
5. 3/4"CW & HW DROP. 2"V RISE.
6. 1 1/2"CW DROP. 3/4"HW DROP. 2"V RISE. 4"W DN.
7. 1"CW DROP. 1"HW DROP. 2"V RISE. 3"W DN. 3/4"HWR DROP. CONNECT TO HOT WATER SUPPLY AFTER LAST FIXTURE CONNECTION.
8. 2"CW DROP. 2"V RISE. 4"W DN. PROVIDE WHA 'B' ON COLD WATER BRANCH BEFORE LAST FIXTURE CONNECTION.
9. 2"V RISE.
10. 3/4"CW DROP.
11. 3/4"CW & HW DROP. 1 1/2"V RISE. 2"W DN.
12. 2"V RISE. 3"W DN.
13. 3/4"HWR DROP. CONNECT TO HOT WATER SUPPLY AFTER LAST FIXTURE CONNECTION.
14. 1 1/2"CW DROP. 2"V RISE. 4"W DN. PROVIDE WHA 'A' ON COLD WATER BRANCH BEFORE LAST FIXTURE CONNECTION.
15. 2"CW DROP. PROVIDE WHA 'B' ON COLD WATER BRANCH BEFORE LAST FIXTURE CONNECTION.
16. 4"V RISE. 4"W DN.
17. 2 1/2"CW DROP. PROVIDE WHA 'D' ON COLD WATER BRANCH BEFORE LAST FIXTURE CONNECTION.
18. 1"CW & HW DROP.
19. 2 1/2"CW DROP. 1"HW DROP. PROVIDE WHA 'E' ON COLD WATER BRANCH BEFORE LAST FIXTURE CONNECTION.
20. 4" INCOMING WATER SERVICE. SEE DRAWING P201 FOR CONTINUATION.
21. 1 1/2" INCOMING WATER SERVICE FOR IRRIGATION SYSTEM. SEE DRAWING P201 FOR CONTINUATION.
22. 2" INCOMING GAS SERVICE. SEE DRAWING P201 FOR CONTINUATION.
23. 2" TEMPERED WATER DROP. ROUTE PIPING IN SHOWER PANEL.
24. 2"CW UP. 2"HW UP. 1 1/4"HWR UP. SEE MEZZANINE FLOOR PLAN ABOVE FOR CONTINUATION.
25. 4"W DN. CONNECT TO WASTE PIPING IN CHASE.



PLUMBING FOOTBALL STADIUM FLOOR PLAN

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

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ARCHITECTURE · ENGINEERING · LANDSCAPE ARCHITECTURE · INTERIOR DESIGN
6765 NORTH STATE ROAD 37, POST OFFICE BOX 2149, BLOOMINGTON, INDIANA 47402, 812/876-2020
8275 ALLISON POINTE TRAIL, POST OFFICE BOX 50428, INDIANAPOLIS, INDIANA 46250, 317/842-0000

REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE: MAY 31, 1994
drawn by: PJD
checked by: WLM

P203

PLUMBING FOOTBALL STADIUM AND MEZZANINE FLOOR PLANS

VAVLE IDENTIFICATION CHART FOR PLUMBING SYSTEM

Job Name: AMES FIELD - STADIUM

Installed by: Industrial Maintenance & Mechanical Contractors, Inc.

Date:

Valve No.	Location	Purpose
1	Mechanical Room A120	Main Shut-off (Stadium, Visitor Toilet & Conc. & Sprinkler System)
2	Mechanical Room A120	Sprinkler System (Meter Inlet)
3	Mechanical Room A120	Sprinkler System (Meter Outlet)
4	Mechanical Room A120	By-Pass Shut-Off
5	Mechanical Room A120	Sprinkler System (BFP Inlet)
6	Mechanical Room A120	Sprinkler System (BFP Outlet)
7	Mechanical Room A120	Main Shut-Off (Meter Inlet)
8	Mechanical Room A120	Main Shut-Off (Meter Outlet)
9	Mechanical Room A120	Main Shut-Off (BFP Inlet)
10	Mechanical Room A120	Main Shut-Off (BFP Outlet)
11	Mechanical Room A120	Main Shut-Off (Stadium)
12	Mechanical Room A 120	Main Shut-Off (Visitor Toilet & Con)
13	Locker Rm A117 (Above Ceiling No. End of Urinal)	Urinals Cold Supply Mens Rm.A117
14	Room A 118 (Above Shw)	Hot Supply Shw & Lav Rm A118
15	Room A 118 (Above Shw)	Cold Supply Shw Lav & WC Room A118
16	Room A 118 (Above Shw)	HWR Bal Valve Room A 118
17	Room A 118 (Above Shw)	HWR Drain
18	Room A 118 (Behind Access Panel West Wall)	Cold Water Drain RM A118
19	Room A 118 (Behind Access Panel West Wall)	Hot Water Drain RM A118
20	Room A 118 (Behind Access Panel West Wall)	HWR Drain RM A118
21	Locker RM A117 (Above DrkFtn)	Cold Water Supply for Lavs & Drk.Ftns. RM A117
22	Locker RMA117 (Above Off. RM A118 South Wall)	Cold Water Supply WCs & Outside Hose Bibb Room A 117

VAVLE IDENTIFICATION CHART FOR PLUMBING SYSTEM

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Date:

Valve No.	Location	Purpose
23	Locker Room A117 (Above Drk. Ftn)	Hot Water Supply Lavs Room A117
24	Locker Room A117 (Above Drk Ftn)	HWR Bal Valve Room A117 for Shower Mixing
25	Locker Room A117 (Above Office Room A118 East Wall)	Cold Water Supply Valve Room A 117A
26	Locker Room A117 Above Office Room A118 East Wall)	Hot Water Supply Valve Room A 117A
27	Locker Room A117 (Behind Access Panel Under Drinking Fountain	Hot Water Drain for Lavs Room A117
28	Locker Room A117 (Above Shower Entrance)	HWR Bal Valve Room A117A
29	Locker Room A117 (Above Shower Entrance)	HWR Drain Room A 117A
30	Locker Room A117 (Overhead Between Light & Duct/Southeast Corner)	Cold Water Supply to Hose Bibb Outside Lobby A 116
31	Lobby A116 (Above Doorway)	Hot Water Supply to Mop Sink Room A115
32	Lobby A116 (Above Doorway)	Cold Water Supply to Mop Sink Room A115
33	Mens Room A109 (West Wall Above Lavs)	Hot Water Supply to Lavs RoomA109
34	Mens Room A109 (West Wall Above Lavs)	Cold Water Supply to Lavs Room A109
35	Mens Room A109 (West Wall Above Lavs)	Cold Water Supply to Stadium Outside Drk Ftns West Side
36	Mens Room A109 (West Wall Above Lavs)	Hot Water Supply to Lav Room A108
37	Mens Room A109 (West Wall Above Lavs)	Cold Water Supply to Lav Room A108
38	Mens Room A109 (West Wall Above Lavs)	HWR Bal Valve Room A109
39	Mens Room A109 (Behind Access Panel on West Wall)	Hot Water Drain Lavs Room A109
40	Mens Room A109 (Behind Access Panel on West Wall)	Hot Water Drain Lavs Room A109
41	First Aid Room A108 (Above Door)	HWR Drain Room A108
42	First Aid Room A108 (Above Door)	HWR Bal Valve Room A108
43	First Aid Room A108 (Behind Access Panel)	ColdWater Drain Room A108
44	First Aid Room A108 (Behind Access Panel)	Hot Water Drain Room A108

VAVLE IDENTIFICATION CHART FOR PLUMBING SYSTEM

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Installed by: Industrial Maintenance & Mechanical Contractors, Inc.

Date:

Valve No.	Location	Size	Purpose
45	Mens Room A109 (Above Urinals)		Cold Water Supply to Urinals Room A109
46	Mens Room A109 (Above Wtr Cl.)		Hot Water Main Supply Stadium West End
47	Mens Room A109 (Above Wtr Cl.)		Hot Water Main Supply Stadium East End
48	Mens Room A109 (Above Wtr Cl.)		HWR Bal Valve Stadium West End
49	Mens Room A109 (Above Wtr Cl.)		HWR Bal Valve Stadium East End
50	Overhead in Chase Between Men's Room A109 & Womens Room A110		Cold Water Supply for Room A109 Lavs & WC's East Wall Room A110 WCs West Wall
51	Overhead in Chase Between Mens Room A109 & Womens Room A110		Hot Supply to HC Lavs Room A109
52	In Chase Between Mens Room A 109 & Womens Room A110		HWR Shut Off HC Lavs Room A109
53	In Chase Between Mens Room A 109 & Womens Room A110		HWR Bal Valve for HC Lavs Room A109
54	In Chase Between Mens Room A109 & Womens Room A110		HWR Drain Valve HC Lavs Room A109
55	In ChaseBetween Mens Room A109 & Womens Room A110		Hot Water Drain HC Lavs Room A109
56	In Chase Between Mens Room A109 & Womens Room A110		Cold Water Drain HC Lavs & WC Room A109.& WCS West Wall Room A110
57	In Chase Between Mens Room A109 & Womens Room A110		Cold Water Drains Lavs South Wall Room A110
58	In Chase Between Mens Room A 109 & Womens Room A110		Hot Water Drains Lavs South Wall Room A110
59	Storage Room A111		Cold Water Drain Stadium Outside Drk. Ftns (West Side)
60	In Chase Side of Elevator		Cold Water Drain Stadium Outside Drk Fountains (East Side)
61	Womens Room A110 (Above WCs On West Wall)		Cold Supply Lavs South Wall Room A107
62	Women's Room A110 (Above WCs West Wall)		Hot Supply Lavs South Wall Room A107
63	Womens Room A110 (Above Ceiling Between Banks of WCs)		Hot Supply to Room A107
64	Womens Room A110 (Above Ceiling Between Banks of WCs)		Cold Supply to Room A107

VAVLE IDENTIFICATION CHART FOR PLUMBING SYSTEM

Job Name: AMES FIELD - STADIUM

Installed by: Industrial Maintenance & Mechanical Contractors, Inc.

Date:

Valve No.	Location	Size	Purpose
65	Womens Room A110 (Above Island Chase)		Cold Supply to Island WCs Room A110
66	Womens Room A110 (Above Island Chase)		Cold Supply Stadium Outside Drk Fountains (East Side)
67	Womens Room A110 (Above Lavs on South Wall)		HWR Bal Valve Lavs South Wall Room A110
68	Womens Room A110 (Above Lavs on East Wall)		HWR Bal Valve Lavs East Wall Room A110
69	Womens Room A110 (Above Lavs East Wall)		Cold Supply Lavs East Wall Room A110
70	Womens Room A110 (Above Lavs East Wall)		Hot Supply Lavs East Wall Room A110
71	Womens Room A110 (Behind Access Panel East Wall)		Cold Drain Supply Lavs East Wall Room A110
72	Womens Room A110 (Behind Access Panel East Wall)		Hot Drain Supply Lavs East Wall Room A110
73	Lobby A106 (Above Large Doorway)		Hot Supply Mop Sink Room A105
74	Lobby A106 (Above Large Doorway)		Cold Supply Mop Sink Room A105
75	Referees RoomA107A(Above Shower)		HWR Drain RoomA107A
76	Referees Room A107A(Above Lav)		HWR Bal Valve Room A107A
77	Referees Room A107A Above Ceiling Over Access Panel)		HWR Drain Room A107A
78	Referees Room A107 (Behind Access Panel)		Hot Drain Room A107A
79	Referees Room A107 (Behind Access Panel)		Cold Drain Room A107A
80	Referees Room A107 (Behind Access Panel)		HWR Drain Room A107A
81	Locker Room A104 (Overhead South/West Corner		Cold Supply Hose Bibb Outside Lobby A106)
82	Locker Room A104 (Above Shw Entrance Door)		HWR Bal Valve Shw Room A104A
83	Locker Room A104 (Above Shw Entrance Door)		HWR Drain for Shw Room A104A
84	Room A103 (Above Mixing Valve)		Hot Supply Mixing Valve Shower Room A104A

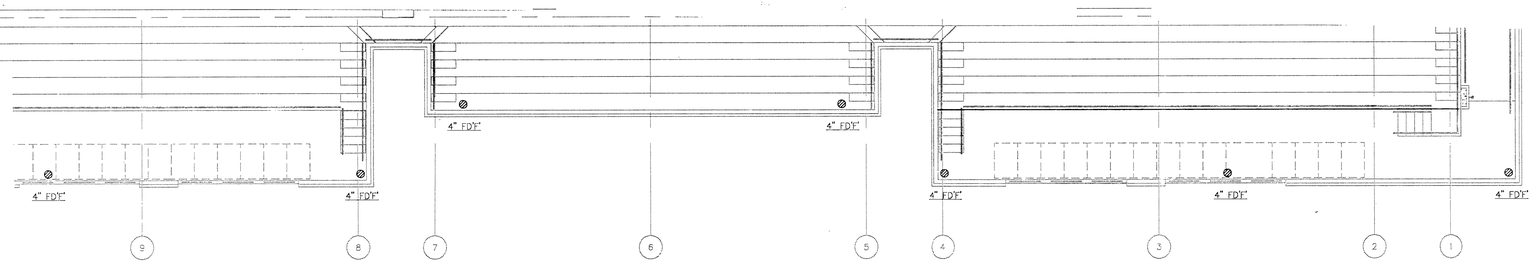
VAVLE IDENTIFICATION CHART FOR PLUMBING SYSTEM

Job Name: AMES FIELD - STADIUM

Installed by: Industrial Maintenance & Mechanical Contractors, Inc.

Date:

Valve No.	Location	Size	Purpose
85	Room A103 (Above Mixing Valve)		Cold Supply Mixing Valve Shower Room A104A
86	Room A104 (Overhead Between Island & Office Wall)		Cold Supply Lavs & Drk. Ftn Room A104
87	Room A104A (Overhead Between Island & Office Wall)		HWR Drain Lavs Room A104A
88	Room A104A (Overhead Between Island & Office Wall)		Hot Supply for Lavs Room A104
89	Room A104A (Overhead Between Island & Office Wall)		Cold Supply to WC & Outside Hose Bib Room A104
90	Room A103 (Above South Wall)		Cold Supply Urinals Room A104
91	Room A117 (In Chase Behind WCs)		Cold Water Drain for WCs Room A117
92	Locker Room A104 (Behind Access Panel Under Drk Fountain)		Hot Water Drain Lavs Room A104
93	Locker Room A104 (In Chase Behind WCs)		Cold Drain WCs Room A104
94	Mezz. Room B112 (North Wall)		Cold Supply to Mezz. Room B112
95	Mezz. Room B112 (North Wall)		Cold Supply Water Heater Room B112
96	Mezz. Room B112 (North Wall)		Cold Supply Mixing Valve Room B112
97	Mezz. Room B112 (North Wall)		Cold Supply Water Heater B112
98	Mezz. Room B112 (North Wall)		Hot From Heater (Circ. Pump Inlet)
99	Mezz. Room B112 (North Wall)		Hot From Heater (Circ. Pump Outlet)
100	Mezz. Room B112 (North Wall)		HWR Bal Valve (Circ. Pump Inlet)
101	Mezz. Room B112 (North Wall)		HWR Bal Valve (Circ. Pump Outlet)
102	Mezz. Room B112 (North Wall)		HWR Drain
103	Mezz. Room B112 (North Wall)		HWR Drain
104	Mezz. Room B112 (North Wall)		HWR Drain
105	Mezz. Room B112 (North Wall)		Hot Water Drain
106	Mezz. Room B112 (North Wall)		Cold Water Drain
107	Mezz. Room B112 (North Wall)		Hot Water Storage Tank Drain
108	Mechanical Room A120		Irrigation Pump Isolation Valve
109	Mechanical Room A120		Irrigation Pump Blowoff Valve

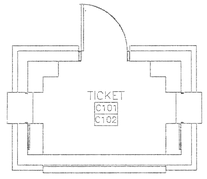


FOOTBALL STADIUM SEATING PLAN

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

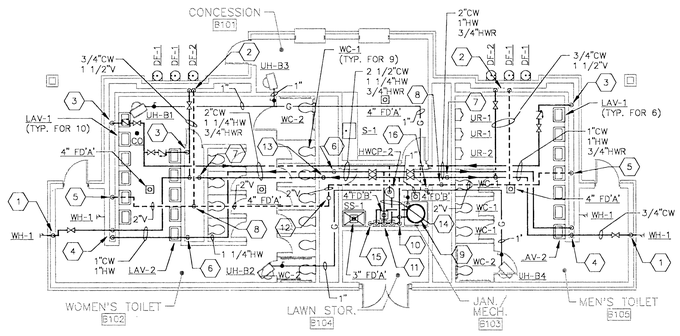
GENERAL PLUMBING PLAN NOTES

1. SLOPE ALL DOMESTIC WATER PIPING TO ALLOW FOR OFF-SEASON DRAIN DOWN.
2. IN OFF-SEASON PERIODS WHEN THE HEATING SYSTEMS ARE TURNED OFF AND ALL DOMESTIC WATER LINES ARE DRAINED, ALL FLUSH VALVE FIXTURES SHALL BE FLUSHED AND ALL PLUMBING FIXTURE TRAPS SHALL BE FILLED WITH ANTI-FREEZE.



PLUMBING PLAN NOTES

1. 3/4"CW DROP.
2. 3/4"CW DROP. 1 1/2"V RISE. 3"W DN.
3. 3/4"HWR DROP. CONNECT TO HOT WATER SUPPLY AFTER LAST LAV CONNECTION.
4. 1"CW DROP. 1"HW DROP.
5. 2"V RISE. 3"W DN.
6. 1"HW DROP.
7. 2"CW DROP. PROVIDE WHA 'C' ON CW BRANCH BEFORE LAST FIXTURE CONNECTION.
8. 2"V RISE. 4"W DN.
9. WATER HEATER (DWH-2). 1" GAS DROP TO WATER HEATER. SEE DETAIL ON DRAWING P502.
10. 2 1/2"CW DROP. SEE DETAIL OF BACKFLOW PREVENTER PIPING DIAGRAM ON DRAWING P502.
11. TMV-2. BACKFLOW PREVENTER (BFP-3) BELOW.
12. 4"V UP. 4"W DN. 4" V.T.R.
13. 2"CW DROP. PROVIDE WHA 'D' ON CW BRANCH BEFORE LAST FIXTURE CONNECTION.
14. 2 1/2"CW. 1 1/2"HW. 3/4"HWR.
15. 2 1/2" INCOMING WATER SERVICE. SEE DRAWING P202 FOR CONTINUATION.
16. 1 1/4" INCOMING GAS SERVICE UP THRU FLOOR WITH GPR-2 ON RISER. 1 1/4" GAS RISE AFTER GPR-2. SEE DRAWING P202 FOR CONTINUATION.



PLUMBING VISITOR TOILET AND CONCESSION FLOOR PLAN

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

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WILLIAM L. MCGUIRE REGISTERED #16114 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED

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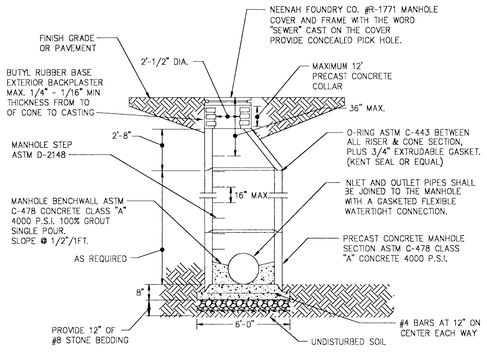
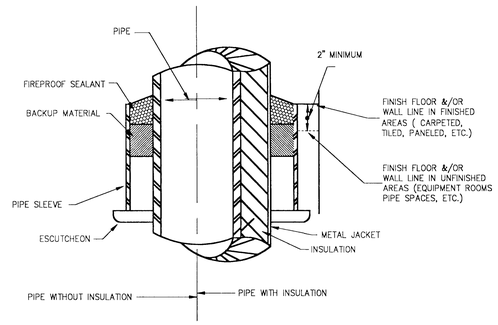
PLUMBING VISITOR TOILET AND CONCESSION FLOOR PLAN



SANITARY MANHOLE

NO SCALE

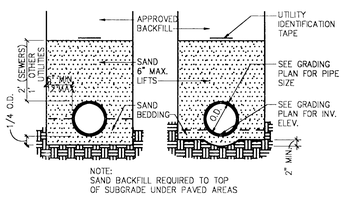


PIPE SLEEVE THRU FLOOR &/OR WALL

NO SCALE

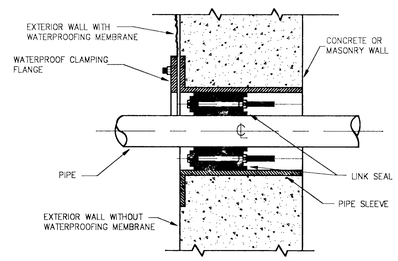
PLUMBING EQUIPMENT SCHEDULE

MARK	ITEM	LOCATION	CAPACITY	MANUFACTURER AND MODEL	ELECTRICAL LOAD HP	RPM	VOLTS	AMPS	PHASE	REMARKS
DWH-1	DOMESTIC WATER HEATER WITH STORAGE TANK	MEZZANNE B112	650,000 BTU INPUT. RECOVERY 670 GPH @ 100° RISE W/VERTICAL 1250 GALLON STORAGE TANK	LOCHIVAR COPPER-FIN II PACKAGED SYSTEM #PU-CFN0650-PM	-	-	120	18	1	
DWH-2	DOMESTIC WATER HEATER	JAN./MECH. B103	88,000 BTU INPUT. RECOVERY 85 GPH @ 100° RISE WITH 100 GALLON STORAGE TANK	LOCHIVAR CNR090-100	-	-	-	-	-	
HWCP-1	HOT WATER CIRC. PUMP	MEZZANNE B112	6 GPM @ 3.0 TDH	GRUNDFUS #UPS15-42F	1/25	950	115	.40	1	PROVIDE AQUASTAT PUMP CONTROLLER
HWCP-2	HOT WATER CIRC. PUMP	JAN./MECH. B103	2 GPM @ 1.0 TDH	GRUNDFUS #UPS15-42F	1/25	950	115	.40	1	PROVIDE AQUASTAT PUMP CONTROLLER
TMV-1	THERMOSTATIC MIXING VALVE	MEZZANNE B112	57 GPM @ 21 PSI PRESSURE DIFFERENTIAL	POWERS #595-WM-100-M-C-08-D-I-03	-	-	-	-	-	MOUNT ON WALL @ 56" A.F.F.
TMV-2	THERMOSTATIC MIXING VALVE	JAN./MECH. B103	21 GPM @ 25 PSI PRESSURE DIFFERENTIAL	POWERS #595-WM-050-M-C-08-D-I-03	-	-	-	-	-	MOUNT ON WALL @ 56" A.F.F.
TMV-3	THERMOSTATIC MIXING VALVE	OFFICE A103	40 GPM @ 11 PSI PRESSURE DIFFERENTIAL	POWERS #432-A-D-P-S-0 SEMI-RECESSED	-	-	-	-	-	MOUNT ON WALL @ 42" A.F.F.
TMV-4	THERMOSTATIC MIXING VALVE	OFFICE A118	40 GPM @ 11 PSI PRESSURE DIFFERENTIAL	POWERS #432-A-D-P-S-0 SEMI-RECESSED	-	-	-	-	-	MOUNT ON WALL @ 42" A.F.F.
ET-1	EXPANSION TANK	MEZZANNE B112	TOTAL VOL. 77 GAL. MAX. ACCEPT. VOL. 36 GAL.	EXTROL AST-180	-	-	-	-	-	
GPR-1	GAS PRESSURE REGULATOR	MECH. A120	2,585 MBH INPUT FROM 2 PSIG TO 14" W.C.	FISHER #S-133L	-	-	-	-	-	
GPR-2	GAS PRESSURE REGULATOR	JAN./MECH. B103	492 MBH INPUT FROM 2 PSIG TO 14" W.C.	FISHER #S-133L	-	-	-	-	-	
BFP-1	BACKFLOW PREVENTER	MECH. A120	156 GPM W/12 PSI DROP	WATTS 3"-SERIES 909-QT-S	-	-	-	-	-	
BFP-2	BACKFLOW PREVENTER	MECH. A120	55 GPM W/10.5 PSI DROP	WATTS 2"-SERIES 909-QT-S	-	-	-	-	-	
BFP-3	BACKFLOW PREVENTER	JAN./MECH. B103	91 GPM W/11.5 PSI DROP	WATTS 2"-SERIES 909-QT-S	-	-	-	-	-	



PIPE BEDDING AND BACKFILL DETAIL

NO SCALE

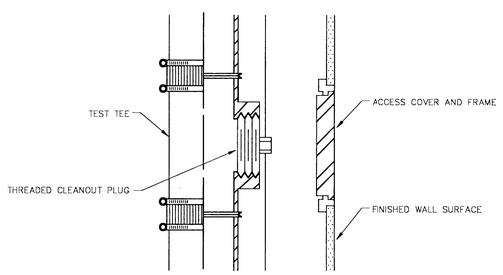


PIPE SLEEVE THRU EXTERIOR WALL OR FOUNDATION WALL (BELOW GRADE)

NO SCALE

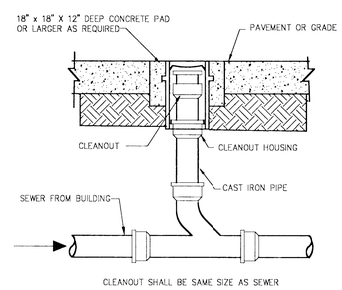
WATER HAMMER ARRESTER SCHEDULE

MARK	I.P.S.	F.U. RATING	J.R. SMITH No.	WADE No.	ZURN No.	REMARKS
A	3/4"	1 - 11	5005	W - 5	100	P.D.I. CERTIFIED
B	1"	12 - 32	5010	W - 10	200	P.D.I. CERTIFIED
C	1"	33 - 60	5020	W - 20	300	P.D.I. CERTIFIED
D	1"	61 - 113	5030	W - 50	400	P.D.I. CERTIFIED
E	1"	114 - 154	5040	W - 75	500	P.D.I. CERTIFIED



NO HUB W/ACCESS DOOR DETAIL

NO SCALE

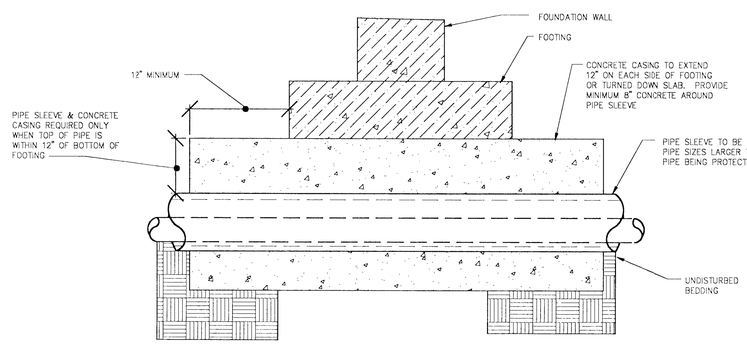


EXTERIOR CLEANOUT DETAIL

NO SCALE

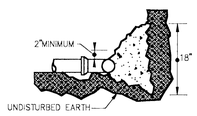
PLUMBING FIXTURE SCHEDULE

"P" No.	FIXTURE NAME	TRAP SIZE	ROUGH IN SIZE W	V	CW	HW	MOUNTING HEIGHT	REMARKS
WC-1	WATER CLOSET, WALL MT'D. W/FLUSH VALVE	4"	4"	2"	1"	-	15"	
WC-2	WATER CLOSET, WALL MT'D. W/FLUSH VALVE	4"	4"	2"	1"	-	18"	HANDICAP
UR-1	URINAL, WALL MOUNTED W/FLUSH VALVE	2"	2"	1 1/2"	3/4"	-	24"	
UR-2	URINAL, WALL MOUNTED W/FLUSH VALVE	2"	2"	1 1/2"	1"	-	17"	HANDICAP
LAV-1	LAVATORY, WALL MOUNTED	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	32"	
LAV-2	LAVATORY, WALL MOUNTED	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	34"	HANDICAP
S-1	STAINLESS STEEL SINK	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"		
SH-1	SHOWER	-	-	-	3/4"	3/4"	HEAD @ 72"	
SH-2	SHOWER PANEL	-	-	-	3/4"	3/4"	HEAD @ 72"	
DF-1	DRINKING FOUNTAIN	1 1/4"	1 1/2"	1 1/2"	1/2"	-	40" TO SPOUT	
DF-2	DRINKING FOUNTAIN	1 1/4"	1 1/2"	1 1/2"	1/2"	-	36" TO SPOUT	HANDICAP
DF-3	DRINKING FOUNTAIN	1 1/4"	1 1/2"	1 1/2"	1/2"	-	40" TO SPOUT	
DF-4	DRINKING FOUNTAIN	1 1/4"	1 1/2"	1 1/2"	1/2"	-	36" TO SPOUT	HANDICAP
MB-1	MOP BASIN	3"	3"	2"	3/4"	3/4"	-	
HB-1	HOSE BIBB	-	-	-	3/4"	-	18" A.F.G.	
WH-1	WALL HYDRANT	-	-	-	3/4"	-	18" A.F.G.	



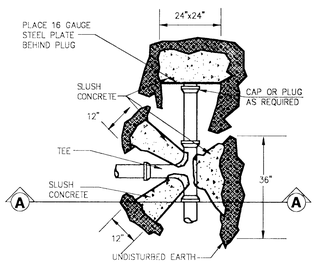
PIPE SLEEVE BELOW FOOTING OR TURNED DOWN SLAB

NO SCALE



SECTION A-A

A



PLAN

NOTE:

PIPE MUST MAINTAIN A MINIMUM 4'-6" OF COVER

BURIED WATERMAIN SUPPORT DETAIL

NO SCALE

GENERAL PLUMBING NOTES

ALL PLUMBING INSTALLATIONS AND MATERIAL SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

ALL TRANSITIONS OF PIPE FROM ONE MATERIAL TO ANOTHER SHALL BE MADE WITH THE APPROPRIATE FITTING, ADAPTORS AND SEALANTS.

NO WASTE OR DRAINAGE PIPING LOCATED UNDERGROUND BELOW FINISH GRADE SHALL BE LESS THAN 2" IN SIZE.

PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL TRAPS, FITTINGS AND CLEANOUTS WITHIN THE BUILDING AS REQUIRED BY CODE.

WHEREVER VALVES ARE SHOWN AND/OR REQUIRED PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED ACCESS PANELS.

PLUMBING CONTRACTOR SHALL COORDINATE ROUGH-IN REQUIREMENTS FOR ALL EQUIPMENT WITH EQUIPMENT MANUFACTURER AND OWNER PRIOR TO START OF PROJECT.

ALL HOT WATER, HOT WATER RETURN AND COLD WATER LINES SHALL BE INSULATED WITH APPROVED INSULATION.

FLEXIBLE WATER PIPING SHALL BE USED WHERE WATER LINES CROSS SEISMIC JOINTS.

SLOPE ALL DOMESTIC WATER PIPING TO ALLOW FOR OFF-SEASON DRAIN DOWN.

IN OFF-SEASON PERIODS WHEN THE HEATING SYSTEMS ARE TURNED OFF AND ALL DOMESTIC WATER LINES ARE DRAINED, ALL FLUSH VALVE FIXTURES SHALL BE FLUSHED AND ALL PLUMBING FIXTURE TRAPS SHALL BE FILLED WITH ANTI-FREEZE.

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

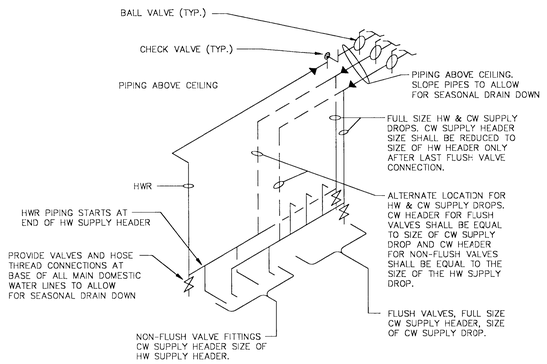
drawn by: PJD

checked by: WLM

P501

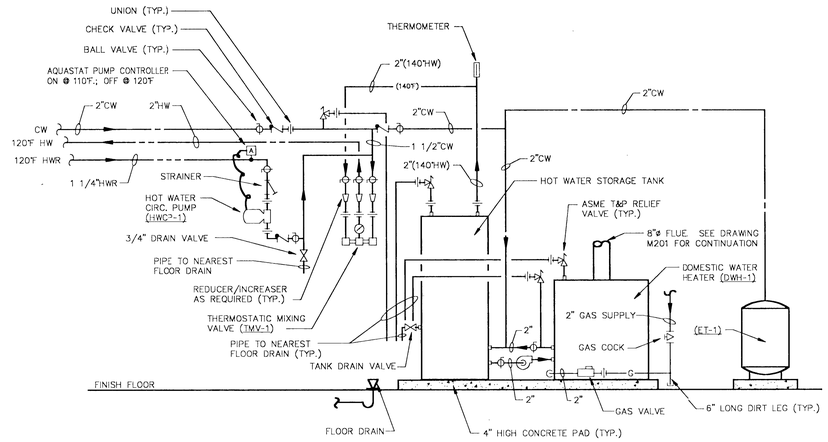
PLUMBING SCHEDULES AND DETAILS

F:\PLUMBING\93052\3052P501 05-31-94 9:59:59



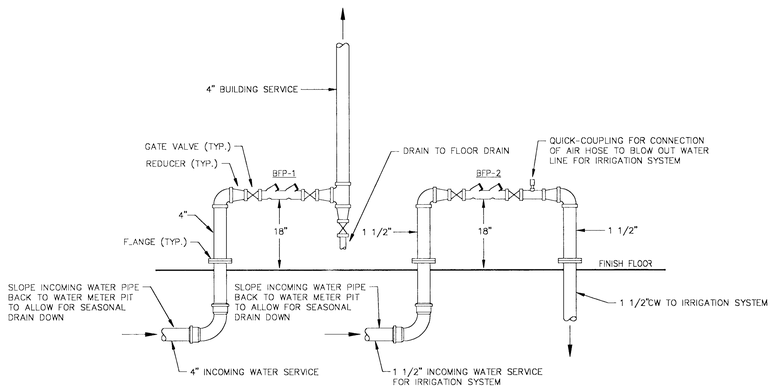
TYPICAL WATER SUPPLY HEADER PIPING DETAIL

NO SCALE



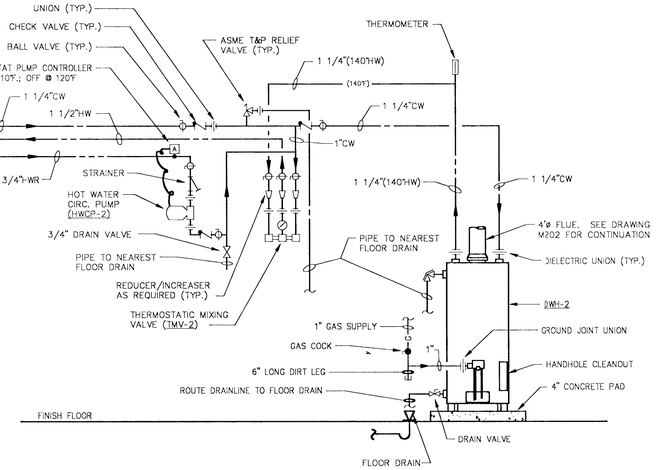
DOMESTIC GAS FIRED WATER HEATER PIPING DIAGRAM (DWH-1)

NO SCALE



BACKFLOW PREVENTER PIPING DIAGRAM ROOM MECH. A120

NOT TO SCALE



DOMESTIC GAS FIRED WATER HEATER PIPING DIAGRAM (DWH-2)

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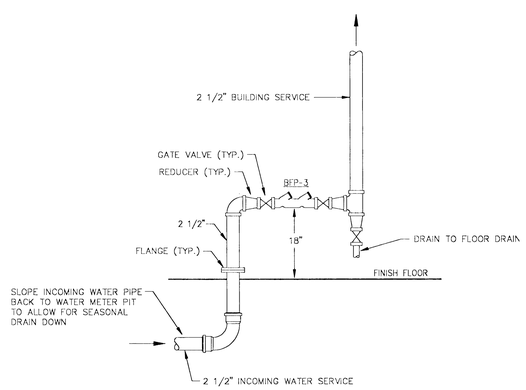
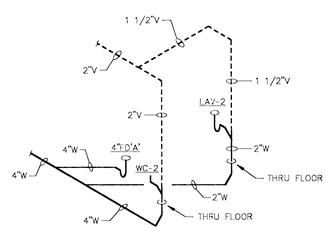


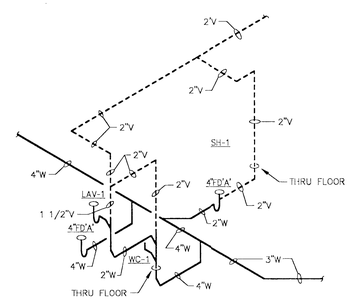
BACKFLOW PREVENTER PIPING DIAGRAM ROOM JAN./MECH. B103

NOT TO SCALE



WASTE AND VENT DIAGRAM ROOM A108A

NO SCALE



WASTE AND VENT DIAGRAM ROOM A118A

NO SCALE

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

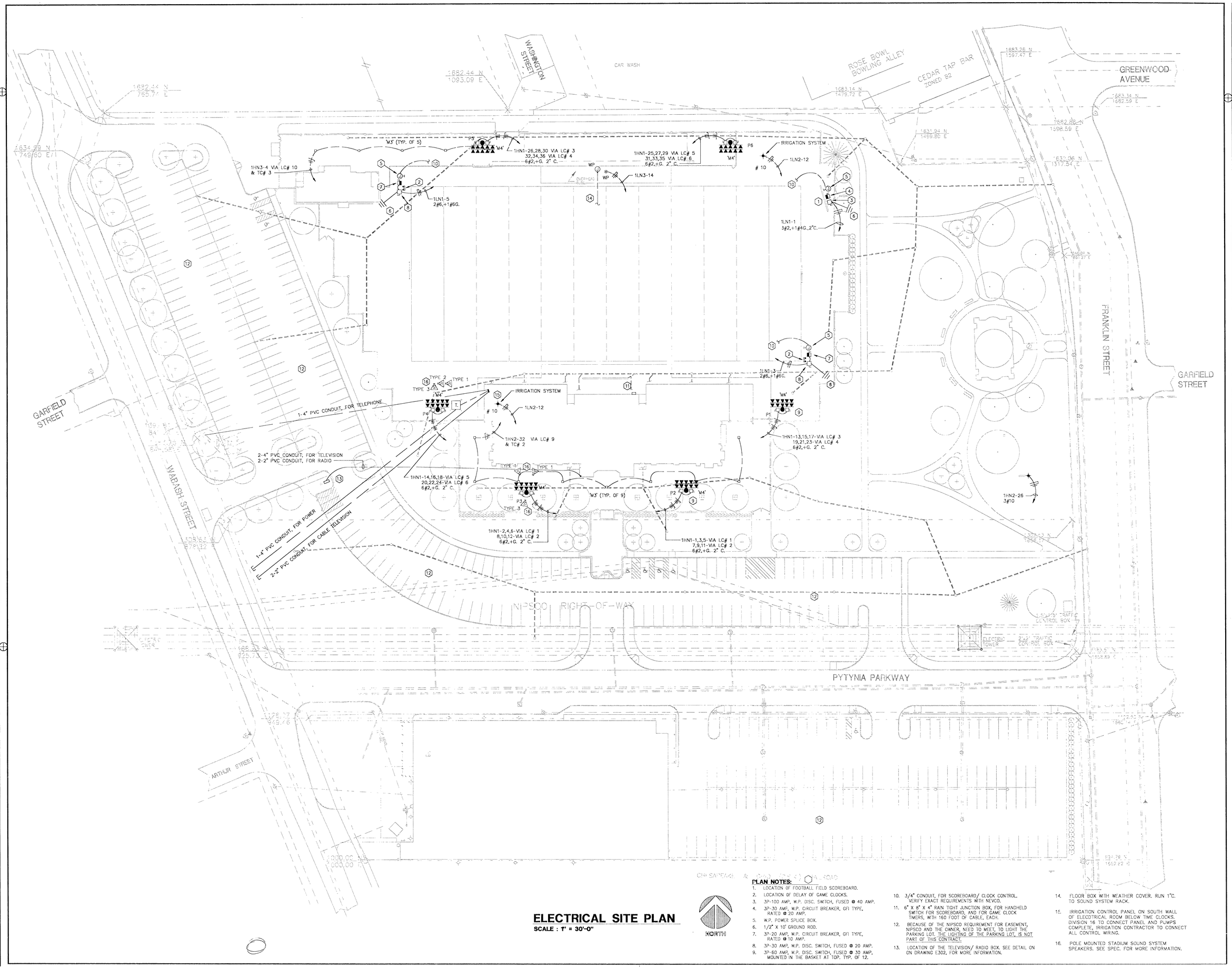
DATE: MAY 31, 1994

drawn by: PJD

checked by: WLM

P502

PLUMBING DETAILS AND ISOMETRICS



ELECTRICAL SITE PLAN

SCALE : 1" = 30'-0"

PLAN NOTES:

1. LOCATION OF FOOTBALL FIELD SCOREBOARD.
2. LOCATION OF DELAY OF GAME CLOCKS.
3. 3P-100 AMP, W.P. DISC. SWITCH, FUSED @ 40 AMP.
4. 3P-30 AMP, W.P. CIRCUIT BREAKER, GFI TYPE, RATED @ 20 AMP.
5. W.P. POWER SPLICE BOX.
6. 1/2" X 10' GROUND ROD.
7. 3P-20 AMP, W.P. CIRCUIT BREAKER, GFI TYPE, RATED @ 10 AMP.
8. 3P-30 AMP, W.P. DISC. SWITCH, FUSED @ 20 AMP.
9. 3P-60 AMP, W.P. DISC. SWITCH, FUSED @ 30 AMP, MOUNTED IN THE BASKET AT TOP, TYP. OF 12.
10. 3/4" CONDUIT, FOR SCOREBOARD/ CLOCK CONTROL. VERIFY EXACT REQUIREMENTS WITH NEVCO.
11. 6" X 8" X 4" RAIN TIGHT JUNCTION BOX, FOR HANDHELD SWITCH FOR SCOREBOARD, AND FOR GAME CLOCK TIMERS, WITH 160 FOOT OF CABLE, EACH.
12. BECAUSE OF THE NIPSCO REQUIREMENT FOR EASEMENT, NIPSCO AND THE OWNER, NEED TO MEET, TO LIGHT THE PARKING LOT. THE LIGHTING OF THE PARKING LOT, IS NOT PART OF THIS CONTRACT.
13. LOCATION OF THE TELEVISION/ RADIO BOX. SEE DETAIL ON ON DRAWING E302, FOR MORE INFORMATION.
14. FLOOR BOX WITH WEATHER COVER. RUN 1"C. TO SOUND SYSTEM RACK.
15. IRRIGATION CONTROL PANEL ON SOUTH WALL OF ELECOTRICAL ROOM BELOW TIME CLOCKS. DIVISION 16 TO CONNECT PANEL AND PUMPS COMPLETE, IRRIGATION CONTRACTOR TO CONNECT ALL CONTROL WIRING.
16. POLE MOUNTED STADIUM SOUND SYSTEM SPEAKERS. SEE SPEC. FOR MORE INFORMATION.

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MICHIGAN CITY SPORTS COMPLEX

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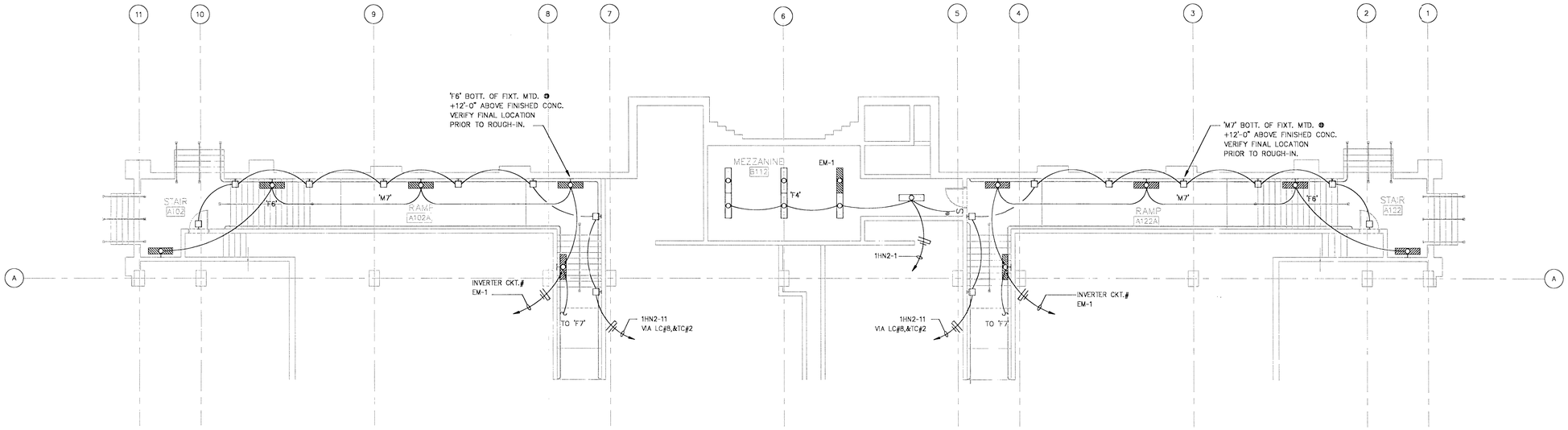
E101

ELECTRICAL SITE PLAN

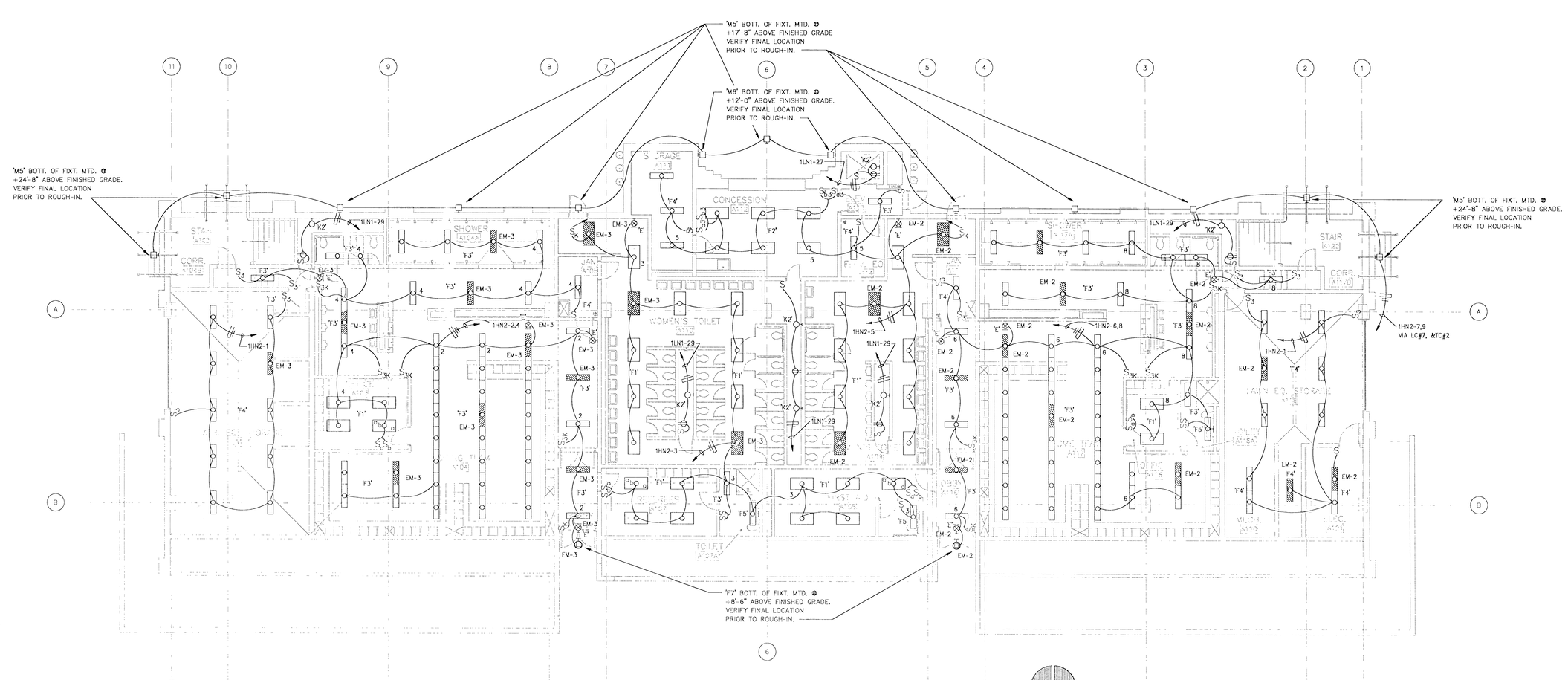
F:\ELECDWGS\93052\J0S2E101 05-31-94 8:59:31



FOOTBALL STADIUM INTERIOR RAMP LIGHTING PLAN

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

NORTH



FOOTBALL STADIUM LIGHTING FLOOR PLAN

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

NORTH

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MICHIGAN CITY SPORTS COMPLEX

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PROJECT NO. 93052

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drawn by: JJC

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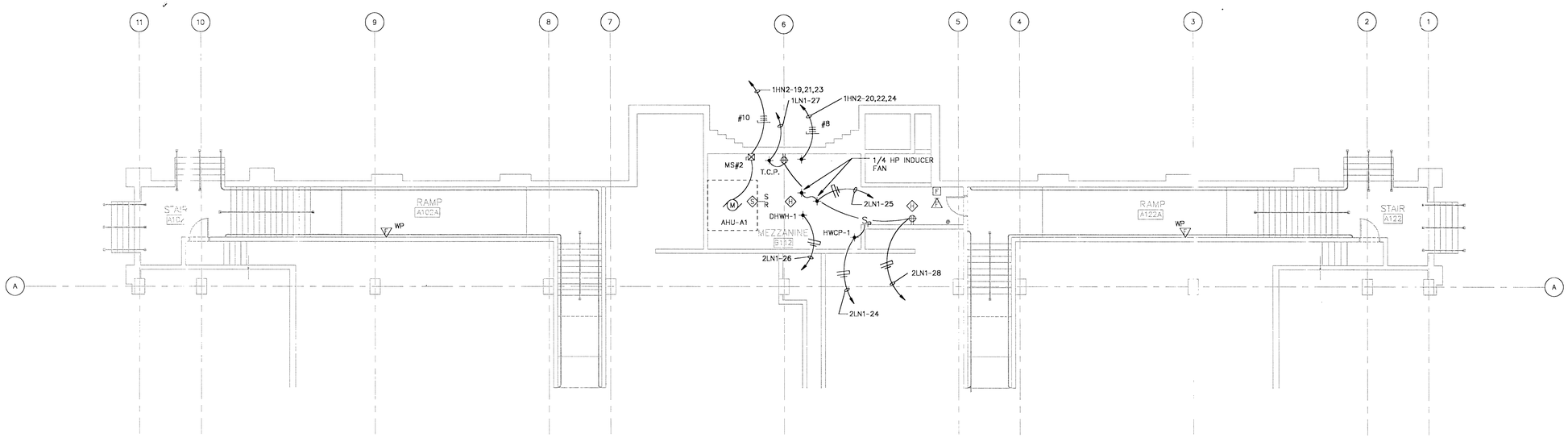
E201

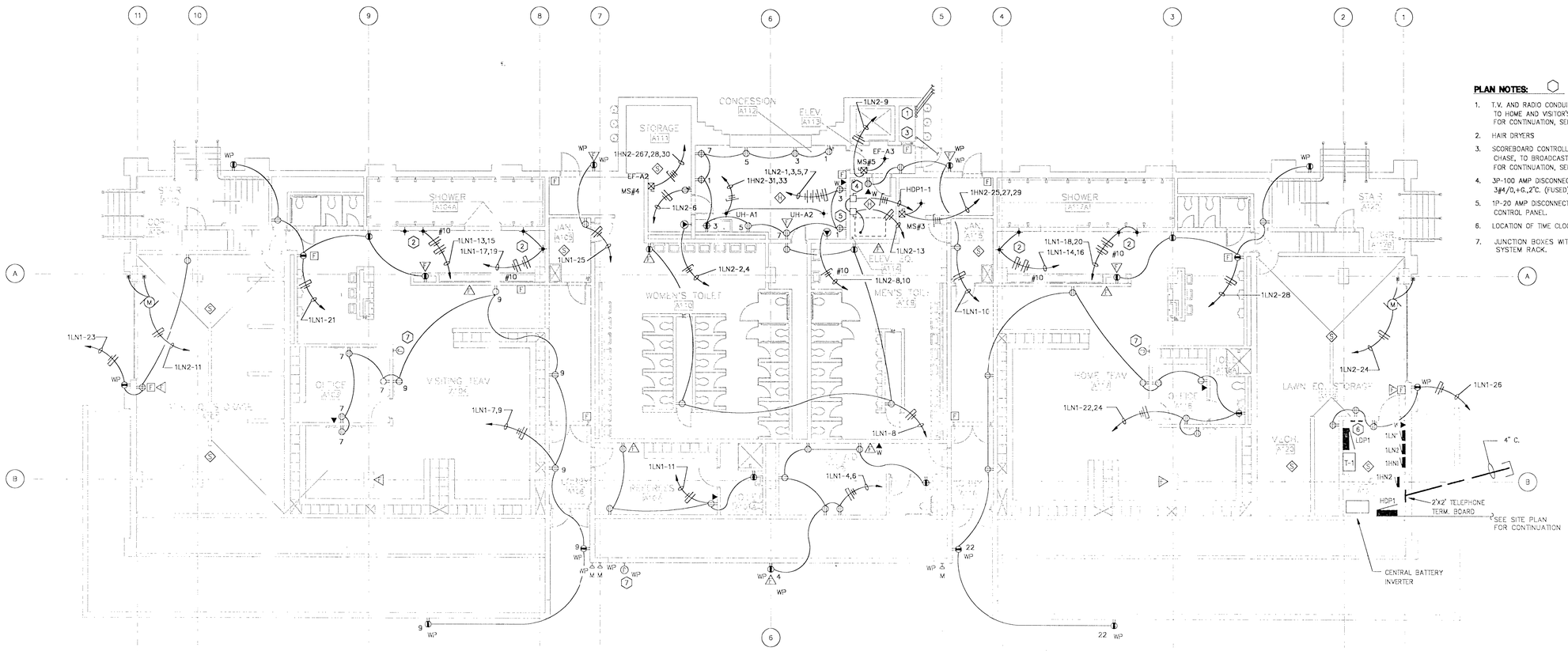
FOOTBALL STADIUM LIGHTING PLAN



FOOTBALL STADIUM INTERIOR RAMP POWER & SIGNAL PLAN

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

NORTH



PLAN NOTES:

1. T.V. AND RADIO CONDUITS, UP THRU CHASE, TO HOME AND VISITOR'S BROADCAST BOOTHS. FOR CONTINUATION, SEE E204.
2. HAIR DRYERS
3. SCOREBOARD CONTROLLER CONDUITS, UP THRU CHASE, TO BROADCAST BOOTH AND PRESS BOX. FOR CONTINUATION, SEE E204.
4. 3P-100 AMP DISCONNECT SWITCH, FOR ELEVATOR 3Ø4/0,+G,2"C. (FUSED).
5. 1P-20 AMP DISCONNECT SWITCH, FOR ELEVATOR CONTROL PANEL.
6. LOCATION OF TIME CLOCKS TC# 1,& TC# 1.
7. JUNCTION BOXES WITH COVER TO SOUND SYSTEM RACK.

FOOTBALL STADIUM POWER & SIGNAL FLOOR PLAN

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

NORTH

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E202

FOOTBAL STADIUM POWER & SIGNAL PLAN

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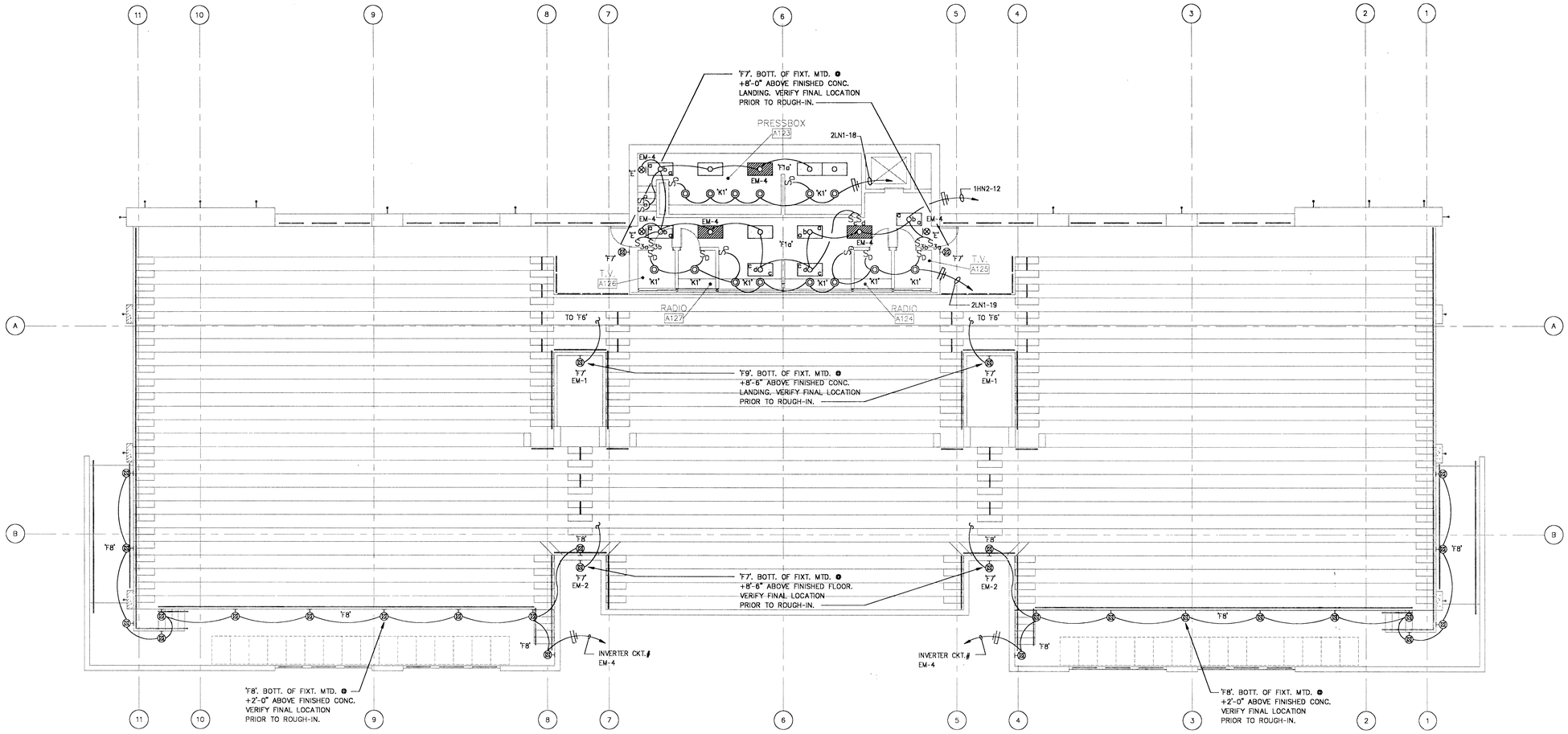
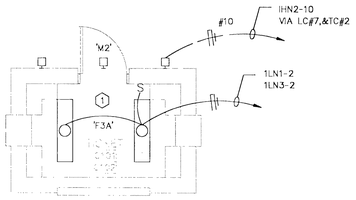


FOOTBALL STADIUM SEATING LIGHTING PLAN

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

NORTH

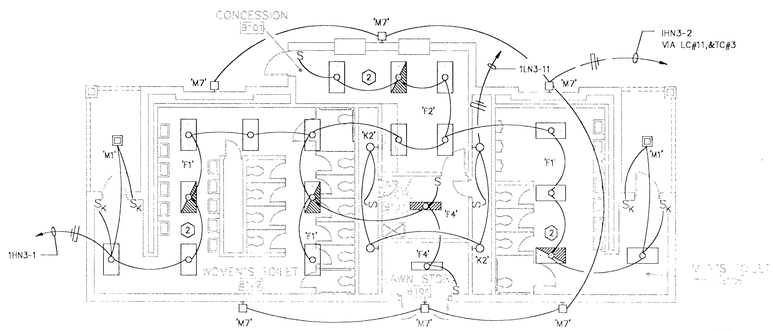


TICKET BOOTH LIGHTING PLAN (TYPICAL OF 2)

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

PLAN NOTES : ⬡

1. TYPE 'F3A' SAME AS TYPE 'F3', EXCEPT 120V.
2. ALL EMERGENCY UNITS IN VISITOR'S TOILET AND CONCESSION, SHALL BE BATTERY INVERTER IN THE BALLAST CHANNEL, (TYPICAL OF 5).



VISITOR TOILET & CONCESSION LIGHTING PLAN

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

NORTH

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AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

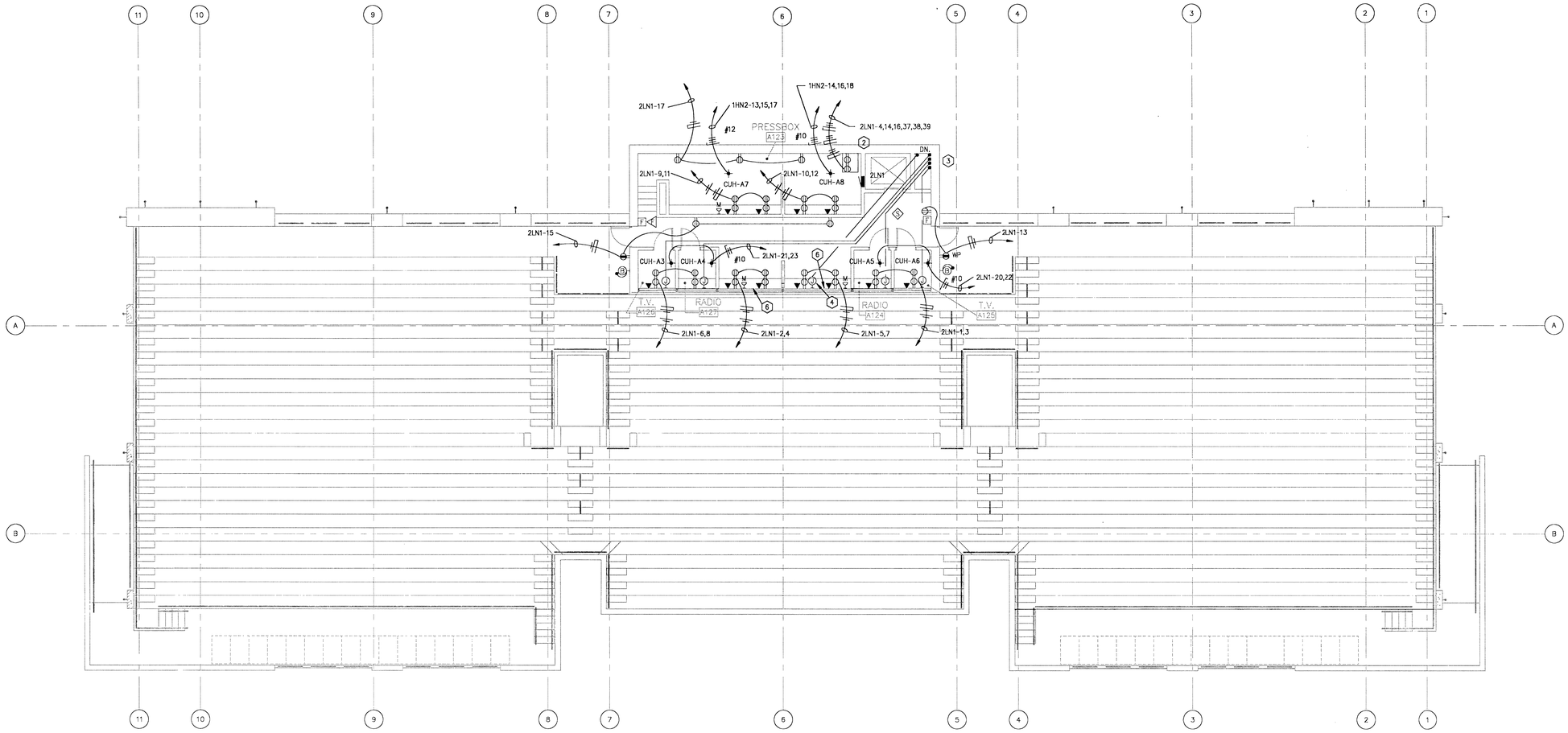
DATE: MAY 31, 1994

drawn by: JJC/ KW3

checked by: RSB

E203

FOOTBALL STADIUM, CONCESSIONS, & TICKET BOOTHS LIGHTING PLAN



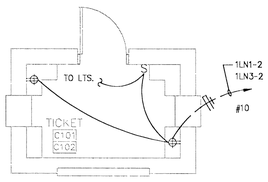
FOOTBALL STADIUM SEATING POWER & SIGNAL PLAN

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

NORTH

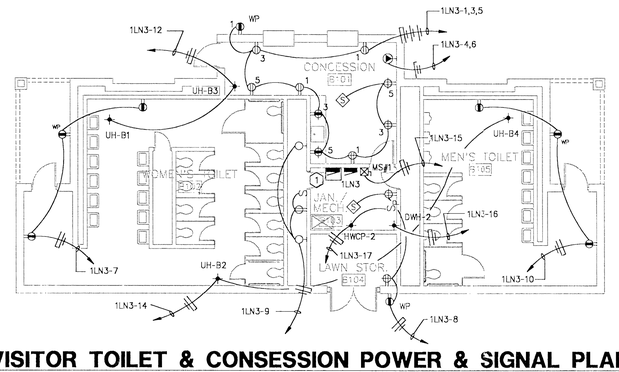
PLAN NOTES:

1. PANELBOARD 1HN3 WITH TRANSFORMER T-2 WALL MOUNTED ABOVE.
2. SOUND SYSTEM RACK.
3. SEE RISER DIAGRAM, E302, FOR RADIO & TELEVISION CONDUIT DISTRIBUTION.
4. SCOREBOARD CONTROLLER, WITH 4 JUNCTION BOXES WITH 4-3/4" CONDUITS. SEE DETAIL ON DRAWING E301.
5. 120 VOLT SMOKE DETECTORS, WITH LIGHT/ SIREN.
6. PRESS BOX MONITOR SPEAKERS MOUNTED ABOVE WINDOW.



TICKET BOOTH POWER & SIGNAL PLAN (TYPICAL OF 2)

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



VISITOR TOILET & CONSESSION POWER & SIGNAL PLAN

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

NORTH

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AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: JJC/ KWB

checked by: RSB

E204

FOOTBALL STADIUM, CONCESSIONS, & TICKET BOOTHS, POWER & SIGNAL PLAN

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ELECTRICAL SYMBOLS

SOUND SYSTEM SYMBOLS

MOUNTING CEILING	MOUNTING WALL	MOUNTING FLOOR	DESCRIPTION	SYMBOL	DESCRIPTION
	⊢○		CALL – IN SWITCH	SSC	SOUND SYSTEM CONSOLE
	◁IC	◁IC	INTERCOM OUTLET	SSR	SOUND SYSTEM RACK
◁	◁		SPEAKER (HORN TYPE)	SSA	SOUND SYSTEM AMPLIFIER
Ⓢ	⊢Ⓢ		SPEAKER	⊣◁	MASTER ANTENNA OUTLET
	⊣S	●⊣S	SPEAKER JACK		
	⊣M	●⊣M	MICROPHONE OUTLET	⊢●	SOUND SYSTEM TELEPHONE
	⊣P	●⊣P	PROJECTOR OUTLET	T	MEDIA RETREVIAL SYSTEM TERMINAL UNIT
	⊢V		VOLUME CONTROL	C◁	CAMERA (T.V.)/ SECURITY

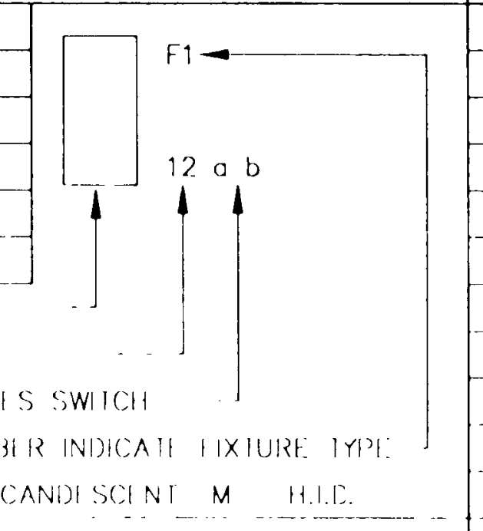
FIRE ALARM SYMBOLS

MOUNTING CEILING	MOUNTING WALL	MOUNTING FLOOR	DESCRIPTION	SYMBOL	DESCRIPTION
◇H	⊢◇H		HEAT DETECTOR (HIGH TEMP)	■	DOOR HOLDER ROUGH IN (IN DOOR CLOSER)
Ⓗ	⊢Ⓗ		HEAT DETECTOR (LOW TEMP)	DH	MAGNETIC DOOR HOLDER
◇RR	⊢◇RR		HEAT DETECTOR (RATE OF RISE)		
◇S	⊢◇S		SMOKE DETECTOR (PHOTO-ELECTRIC)	DD	DIGITAL DIALER
	◇S S		SMOKE DETECTOR (P-E W/ DUCT PROBE SUPPLY SIDE)	RFAA	REMOTE FIRE ALARM ANNUNCIATOR
	◇S R		SMOKE DETECTOR (P-E W/ DUCT PROBE RETURN SIDE)	RFAG	REMOTE FIRE ALARM GRAPHIC ANNUNCIATOR
◇S I	⊢◇S I		SMOKE DETECTOR (IONIZATION)	FACP	FIRE ALARM CONTROL PANEL
	◇S S I		SMOKE DETECTOR (ION. W/ DUCT PROBE SUPPLY SIDE)	FAA	FIRE ALARM CONTROL PANEL AND ANNUNCIATOR
	◇S R I		SMOKE DETECTOR (ION. W/ DUCT PROBE RETURN SIDE)	T	BEAM DETECTOR
	F		FIRE ALARM PULL STATION	☐●	FLOW SWITCH
				☒●	P.I.V.
◁F	⊢◁F		ELECTRONIC "WOOP"	☒	SUPERVISORY VALVE SWITCH
◀	◀		FIRE CHIME / LIGHT COMBINATION	A	ALARM CHECK VALVE SWITCH
◁F	◁F		FIRE HORN / LIGHT COMBINATION		
Ⓕ	⊢Ⓕ		FIRE ALARM BELL 10" DIA.	■◁	MOTION DETECTOR (PASSIVE)
Ⓢ	⊢Ⓢ		SPRINKLER ALARM BELL	■◀	MOTION DETECTOR (MICROWAVE/PASSIVE)
L	⊢L		REMOTE INDICATING ALARM LAMP	▭	KEYPAD
Ⓕ	⊢Ⓕ		FIRE INDICATING LIGHT	▭	SECURITY SYSTEM CONTROL PANEL
	S_R		REMOTE RESET SWITCH		

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	FIXT	FIXTURE	NF	NON-FUSED
AFG	ABOVE FINISHED GRADE	FSCP	FLAME SAFEGUARD CONTROL PANEL	NFSS	NON-FUSED SAFETY SWITCH
AHU	AIR HANDLING UNIT	FLUOR	FLUORESCENT	NTS	NOT TO SCALE
AF	AMPERE FRAME	F	FUSED	PNL	PANEL
AT	AMPERE TRIP	FSS	FUSED SAFETY SWITCH	ø	PHASE
ADO	AUTOMATIC DOOR OPENER	GD	GARBAGE DISPOSAL	P	POLE
ATS	AUTOMATIC TRANSFER SWITCH	GEN	GENERATOR	PWR	POWER
BC	BARE COPPER	G, GND	GROUND	POD	POWER OPERATED DAMPER
BFG	BELOW FINISHED GRADE	GFI	GROUND FAULT INTERRUPTER	PTRV	POWER TYPE ROOF VENTILATOR
BRIP	BOILER PLANT INSTRUMENTATION PANEL	GTB	GROUND TERMINAL BOX	PBPU	PREFAB. BEDSIDE PATIENT POWER UNIT
CH	CABINET HEATER	HOA	HAND OFF AUTOMATIC	PB	PULL BOX
CLG	CEILING	HH	HANDHOLE	RECEPT	RECEPTACLE
CKT	CIRCUIT	HV	HIGH VOLTAGE	REF	REFRIGERATOR
CB, C/B CKT BKR	CIRCUIT BREAKER	HP	HORSE POWER	RGIP	REMOTE GROUND INDICATOR PANEL
		INCAND	INCANDESCENT	SS	SAFETY SWITCH
CCTV	CLOSED CIRCUIT T.V.	IG	ISOLATED GROUND	SIG	SIGNAL
C	CONDUIT	JB	JUNCTION BOX	S/N	SOLID NEUTRAL
DB	DIRECT BURIAL	LT	LIGHT	STA	STATION
DISC. SW.	DISCONNECT SWITCH	LTG	LIGHTING	SW	SWITCH
D	DRYER	LTS	LIGHTS	TEL	TELEPHONE
ELEC	ELECTRIC	LTCP	LOCAL TEMPERATURE CONTROL PANEL	TTB	TELEPHONE TERMINAL BOARD
ESM	ELECTRIC STRIP MOLD	LV	LOW VOLTAGE	TTC	TELEPHONE TERMINAL CABINET
EWC	ELECTRIC WATER COOLER	MCB	MAIN CIRCUIT BREAKER	TV	TELEVISION
EMERG	EMERGENCY	MDP	MAIN DISTRIBUTION PANEL	XFMR	TRANSFORMER
EC	EMPTY CONDUIT	MDS	MAIN DISTRIBUTION SWITCHBOARD	UF	UNDERGROUND FEEDER
EG	EQUIPMENT GROUND	MLO	MAIN LUG ONLY	UH	UNIT HEATER
EF	EXHAUST FAN	MH	MANHOLE	VP	VAPOR PROOF
EX	EXISTING	MTS	MANUAL TRANSFER SWITCH	V	VOLTAGE
EJ	EXPANSION JOINT	MATV	MASTER ANTENNA TELEVISION	WA	WASHER
EXP,XP	EXPLOSION PROOF	MCC	MOTOR CONTROL CENTER	WT	WATER TIGHT
FCU	FAN COIL UNIT	MTD	MOUNTED	WP	WEATHERPROOF
FI	FILM ILLUMINATOR	MTG HGT	MOUNTING HEIGHT	W	WIRE
FA	FIRE ALARM	N/L	NIGHT LIGHT	W/	WITH
FACP	FIRE ALARM CONTROL PANEL				

MOUNTING CEILING	MOUNTING WALL	MOUNTING FLOOR	DESCRIPTION
▭	▭		FLUORESCENT FIXTURE
○	○		INCANDESCENT FIXTURE
□	□		H.I.D. FIXTURE
○			FLUORESCENT DOWNLIGHT
◎			INCANDESCENT DOWNLIGHT
[ ]			H.I.D. DOWNLIGHT
			LIGHT FIXTURE
			CIRCUIT NUMBER
			LOWERCASE LETTER INDICATES SWITCH
			UPPERCASE LETTER & NUMBER INDICATE FIXTURE TYPE
			F – FLUORESCENT K – INCANDESCENT M – H.I.D.
		■	H.I.D. BOLLARD LIGHT
		●[ ]	H.I.D. POLE LIGHT W/ No. of heads as shown on drawing.
⊻⊻⊻			TRACK & LIGHTS W/ No. of heads as shown on drawing.
⊗	⊗		EXIT LIGHT – LINE INDICATES FACE ARROW INDICATES FACE WITH DIRECTION OF TRAVEL ALL EXIT LIGHTS TO BE TYPE " [illegible] "
◗◖	◁ ▷		BATTERY PACK EMERGENCY LIGHTS
◒	Y		REMOTE HEAD FOR BATTERY PACK
▨	▨		LIGHT FIXTURE WITH BATTERY INVERTER PACK CONNECT TO UNSWITCH CIRCUIT NIGHT LIGHT INDICATED BY N/L
		◁[ ]	H. I. D. POLE MOUNTED FLOOD LIGHT
[●] ▨●	[●] ▨●		DARKENED CIRCLE IN FIXTURE INDICATES FIXTURE IS ON EMERGENCY POWER ---- ●
○			EXAM / SURGERY LIGHT
	S_a		SWITCH - SINGLE POLE LOWERCASE LETTER INDICATES FIXTURES CONTROLLED (TYP)
	S_2		SWITCH – TWO POLE
	S_3		SWITCH – THREE WAY
	S_4		SWITCH – FOUR WAY
	S_P		SWITCH WITH PILOT LIGHT – SINGLE POLE
	S_{3P}		SWITCH WITH PILOT LIGHT – THREE WAY
	S_{PL}		SWITCH & PILOT LIGHT COMB. – 2 GANG
	S_D		DIMMER SWITCH WATTAGE AS INDICATED
	S_K		KEY SWITCH – SINGLE POLE
	S_{3K}		KEY SWITCH – THREE WAY
	S_T		TIMER SWITCH
	S_{WP}		SWITCH – WEATHERPROOF
	S_L		SWITCH – LIGHTED
	S_M		SWITCH – MOMENTARY CONTACT
	S_W		SWITCH/ WIRE MOLD BOX
	S◁		SWITCH – MOTION DETECTION, FOR LIGHTING
	S_B		SWITCH/ BLANK COVER PLATE
	⊖B	⊙B	OUTLET BOX W/ BLANK COVER PLATE
⊖	⊖	⊙	DUPLEX RECEPTACLE
	⦶		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
⊖	⊖	⊙	SINGLE RECEPTACLE
	⦶		SINGLE RECEPTACLE MOUNTED ABOVE COUNTER
⊖⊖ ⦶	⊖⊖ ⦶	⊙⊙	DOUBLE DUPLEX RECEPTACLE
	▲	▲	SPECIAL RECEPTACLE OR OUTLET AS NOTED
⊖	⊖		208/240 VOLT – 1ø RECEPTACLE SIZE AS NOTED
øS	øS		SAFETY RECEPTACLE
⊖WP	⊖WP		WEATHERPROOF DUPLEX RECEPTACLE
⊖E	⊖E	⊙E	EXPLOSION PROOF RECEPTACLE OR OUTLET
	●		DUPLEX G.F.C.I. TYPE RECEPTACLE
⊖IG	⊖IG	⊙IG	ISOLATED GROUND RECEPTACLE
⊖	⊖		DUPLEX RECEPTACLE – TOP HALF SWITCHED
⊗	⊗	●⊗	TWIST LOCK RECEPTACLE – TYPE AS NOTED
⊗IG	⊗IG	●⊗IG	ISOLATED GROUND TWIST LOCK RECEPTACLE
	○—○		MULTI-OUTLET STRIP – TYPE AS NOTED
⊖	⊖	●	DUPLEX RECEPTACLE ON EMERGENCY
⊖	⊖	●	SINGLE RECEPTACLE ON EMERGENCY
	⦶SS		SURGE SUPPRESSOR
	⊖S		RECEPTACLE – SURFACE MOUNT
	⊖W		RECEPTACLE – WIRE MOLD



MOUNTING CEILING	MOUNTING WALL	MOUNTING FLOOR	DESCRIPTION
	⊢◷		CLOCK AND CLOCK OUTLET
	⊢Ⓒ		CLOCK OUTLET ONLY
	⊢◷D		DOUBLE FACE CLOCK AND CLOCK OUTLET
	◷		MASTER CLOCK
	⊢ⒸET		ELAPSED TIME CLOCK
	◀	●◀	TELEPHONE OUTLET
	◀PP	●◀PP	PAY TELEPHONE OUTLET
	◀DD	●◀DD	DOCTORS DICTATION
	[•]		PUSHBUTTON STATION
	[••]		PUSHBUTTON STATION
	[•••]		PUSHBUTTON STATION
	⊢B		BUZZER
	●Ⓑ		BELL
	⊢CH		CHIME
Ⓙ	⊢Ⓙ	●Ⓙ	JUNCTION BOX
●	⊢●	●	JUNCTION BOX ON EMERGENCY
	◩		GROUND JACK
	[◩]		GROUND JACK WITH RECEPTACLE MODULE
P	⊢P	●P	PULL BOX SIZE AS NOTED
	◆		POWER POLE TYPE AS NOTED IN PROJECT MANUAL
⊖			RECEPTACLE AND CABLE T.V. OUTLET WITH CEILING MOUNTED T.V. SUPPORT YOKE – 2' X 2' SUPPORT PAN
C	⊢C	●C	COMPUTER OUTLET
T	⊢T	●T	TELEVISION OUTLET / T. V.

SYMBOL	DESCRIPTION
MCC	MOTOR CONTROL CENTER
MDS	MAIN DISTRIBUTION SWITCHBOARD
◢	ELECTRICAL DISTRIBUTION PANELBOARD
■	LIGHTING OR POWER PANEL AS NOTED
▭	PANEL AS NOTED
T	TRANSFORMER
F	DISCONNECT SWITCH – FUSED
[ ]	DISCONNECT SWITCH – NON-FUSED
⍁	LIGHTING CONTACTOR
R	CONTROL RELAY
⊠	MAGNETIC MOTOR STARTER
⊠	COMBINATION STARTER & DISC. SW.
▬	CIRCUIT BREAKER ENCLOSURE
⧗	CAPACITOR SIZE AS NOTED
⍁	MANUAL STARTER W/ OVERLOADS
⍁	MANUAL STARTER W/ PILOTLIGHT
Ⓜ	MOTOR
DO	ELECTRIC DOOR OPERATOR
✦	ROUGH-IN & FINAL CONNECTION
⊣◁	MASTER ANTENNA OUTLET
⊢D	PANIC BUTTON STATION
Ⓖ	EMERGENCY GENERATOR
ATS	AUTOMATIC TRANSFER SWITCH
TC	TIME CLOCK
Ⓣ	THERMOSTAT
	CONDUIT–CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN OR BELOW FLOOR
	CONDUIT UNDERGROUND
	CONDUIT EXPOSED
	DIRECT BURIED CABLE
	INDICATES HOME RUN
	INDICATES NUMBER OF CIRCUITS IN RUN
	INDICATES GROUND CONDUCTOR
	INDICATES SWITCHED AND UNSWITCHED CIRCUITS
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT STUBBED OUT AND CAPPED
WM	WIREMOLD TYPE SURFACE RACEWAY
⏚	GROUND ROD AND CONNECTION
⏚	GROUND CONNECTION

Step 13

Scoreboard Mounting

A typical "S" bracket mounting detail is shown on page 1. Before mounting the supplied "S" brackets to the beam, measure the slot locations on the scoreboard. Manufacturing tolerances, temperatures and other variables may affect the actual slot location. With the front edge pointing up, mount the bottom "S" to the beam with two 5/8" bolts. After the bottom "S" brackets are secured, position the scoreboard with the holes in the front edge of the "S" brackets aligned with the 1 1/2" x 11/16" slots on the face of the scoreboard. Now, install the top "S" brackets securely against the top of the scoreboard, aligning the "S" bracket holes with the scoreboard slots. Once all "S" brackets are in place, insert the 5/8" bolt through the front of the "S" brackets, scoreboard and wide flange beam securing it with a flat washer and locking nut. Do not overtighten this bolt. A self locking nut must be used to prevent loosening.

Notice, the module location is on the rear of the scoreboard. **You must keep a three foot clearance behind the scoreboard to allow the module location door to open freely.**

Always use good mechanical practices when mounting the scoreboard making sure the bolt or other type fastening device used has a flat washer, lock washer and or lock nut where specified to prevent vibration from loosening the fastening device. Use only plated fastening devices to prevent rust or corrosion. **Be sure to use the "J" type mounting brackets on the section joints even if you do not use the posts that Nevco specifies.** The distance between the mounting posts must maintain a tolerance of plus or minus 1/2" to allow the "J" type mounting bracket to be properly secured.

The 6 x 6 x 15 lbs wide flange beam is for a nominal 75 m.p.h. wind loading, which may not be adequate for some locales. We strongly encourage you to check local codes before starting the installation. If you are unsure of how to go about this, contact a local architect, contractor, or sign installer for assistance. Your Nevco Sales Representative may also be able to assist you in finding professional installation companies who are familiar with this type of equipment.

Step 14

Scoreboard Power Service

The required power service for this scoreboard is 120/240V, 80/40A, 3W+G, 60HZ. This allows a 20 per cent safety factor to eliminate nuisance tripping of the power service circuit breaker. To eliminate service problems at some future date and the possibility of overloading the circuit breaker, we suggest installing a dedicated service or circuit for the scoreboard.

REV D

This scoreboard has three modules, each requires 120V 20A. Since they do not have to be on the same phase the scoreboard can connect to a 2 phase, 240V, 30A, 3W+G service as illustrated on this page. The ground fault interrupter requires the neutral and the associated load wires. The factory tapes the module load wire to its associated neutral wire for routing to the ground fault interrupter. If the load wires are not associated correctly the ground fault interrupters will trip.

NOTE: Use only UL Listed, CSA Certified 20 amp ground fault interrupters.

The contractor or installation personnel will determine length and size of the wire to maintain the voltage needed to support the circuit load. We recommend the power service maintain 240/120V at the scoreboard under maximum lamp load.

The contractor or installation personnel may bury the power service wire(s) and control cable in the same trench or non-conductive conduit.

The 2-WIRE cable, if ordered from Nevco Scoreboard Company, is specifically designed for underground burial with a dielectric strength of 300 volts or better and conforms to UL standard 1365. Consult the National Electrical Code and local codes before installing.

Consult the National Electrical Code and local codes for installation of Class 2 wiring. If buried above the freeze line, bury the cable with sand to provide drainage and prevent soil shifting from damaging the cable.

Make the final power service connection in the recessed entrance box located on the back of scoreboard. See Power Splice Box on this page for detail and wiring color code.

For proper safety and protection of the scoreboard electronics from lightning and other electrical problems, attach the green ground wire to a separate ground stake at the scoreboard. See detail on this page for ground stake installation.

You must install a UL Listed, CSA Certified power disconnect switch at the scoreboard.

Turn the disconnect off before you attempt any service to the scoreboard. You must also turn the disconnect off when the scoreboard is not in use to protect your scoreboard from lightning damage. Just as a reminder, your scoreboard guarantee does not cover lightning damage or other types of damage caused by natural disasters.

Installation Instructions

The standard system includes an operator's MPC control (if ordered), the scoreboard cabinet, "S" brackets, "J" brackets, control junction box with cover and cables. To insure that your new scoreboard system has arrived safely, it is important to follow the steps below.

Step 1

Carefully remove the scoreboard from the crate making sure not to pry against the scoreboard in any way, and inspect for damage. This model comes in six sections which you must assemble. See assembly detail on page 1.

Step 2

Carefully remove the operator's MPC control from its packing carton and check for damage. Contact the carrier immediately if shipping damage is present either to the scoreboard or the control.

Step 3

When assembling the six sections, first remove the cable access doors and open the door labeled module location and check the electronic modules for loose connectors. To open the module location, use a standard screw driver to turn the latches.

Step 4

Position the bottom sections next to each other and guide the cables from each section to the next until you have reached the module location. Then slide the bottom sections together, as shown in the Section B-B illustration, aligning the pre-drilled holes. Then insert the screws (sack of screws provided with the scoreboard) into each pre-drilled hole and tighten to securely hold the sections together. Repeat this step for the middle section.

Step 5

Next position the middle section above the bottom section and guide the cables from the middle section to the bottom section. Then lower the middle section onto the bottom section, as shown in the Joint Detail, aligning the pre-drilled holes. Then insert a couple of screws into the pre-drilled holes and tighten to temporarily hold the sections together. Repeat this step for the top section.

Step 6

Once the sections are together, finish routing the cables to the module location and plug them into the appropriate module. Refer to the module end view prints B5096, B5098 and B5100 for plug information.

Step 7

Pre-mounting Test

Connect the 25 foot 2-WIRE control cable, which comes packaged in the control carton, from the operator's MPC control to the modules.

Step 8

Connect the scoreboard to a temporary power service. See this page for power requirements and wiring color code.

Step 9

Plug the MPC control power cord into any 120V, 60HZ grounded three wire outlet. Only 0.1A required.

Step 10

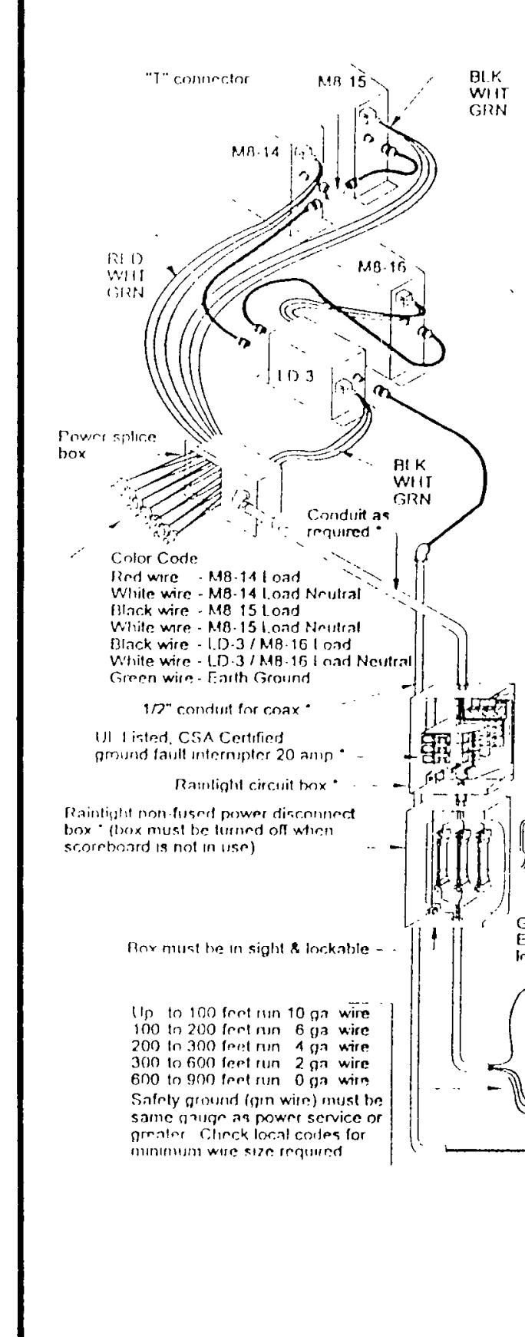
Follow the operating instructions supplied with the MPC operator's control to make sure the system operates properly before going on with the installation.

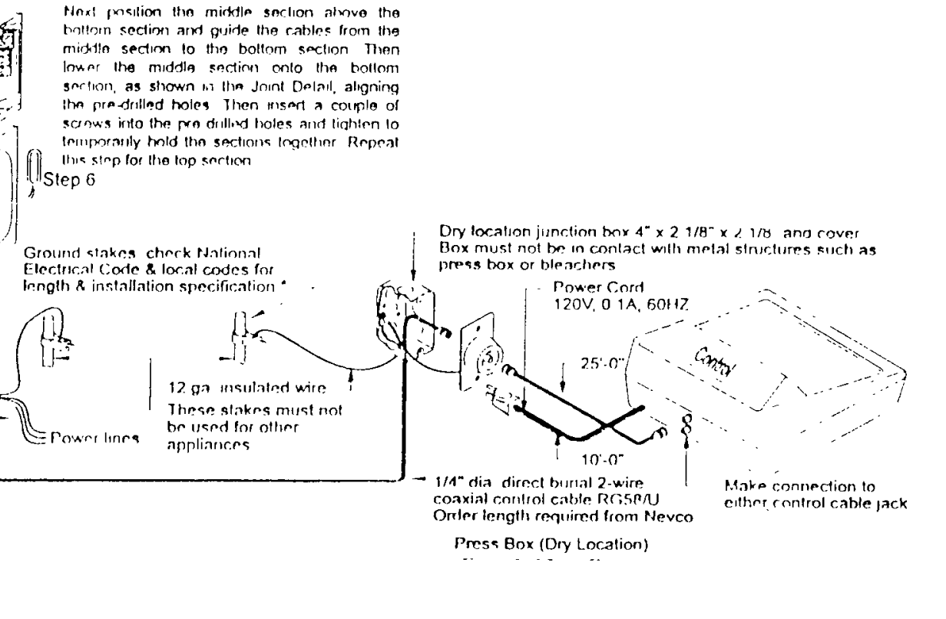
Step 11

If the scoreboard does not operate properly, refer to the Installation and Service Manual, sections titled **Testing the MPC-4 Control** and **2-EM-2 Module / Operation Testing**, before referring to the **Trouble Shooting Guide**.

Step 12

Once the Pre-mounting Test is completed, insert the remaining screws into the pre-drilled holes and tighten. Next, apply caulking to the rear edge where the two sections of the scoreboard meet. See the Joint Detail on page 1. The owner shall supply the caulking.





SCOREBOARD/ DELAY OF GAME CLOCK CONTROLLER LOCATION INSTALLATION

READ THIS BEFORE INSTALLATION

The mechanical installation described on this drawing is a guide to the elementary concepts involved with the installation. This is not intended to be suitable for all conditions. We recommend consulting a professional engineer or architect before attempting the installation. They can verify that the selected mounting beams or posts along with the brackets, screws and other hardware items provided by you or Nevco are adequate for your local soil, wind, codes and other conditions. Calculations for "S" bracket stress analysis are available upon request.

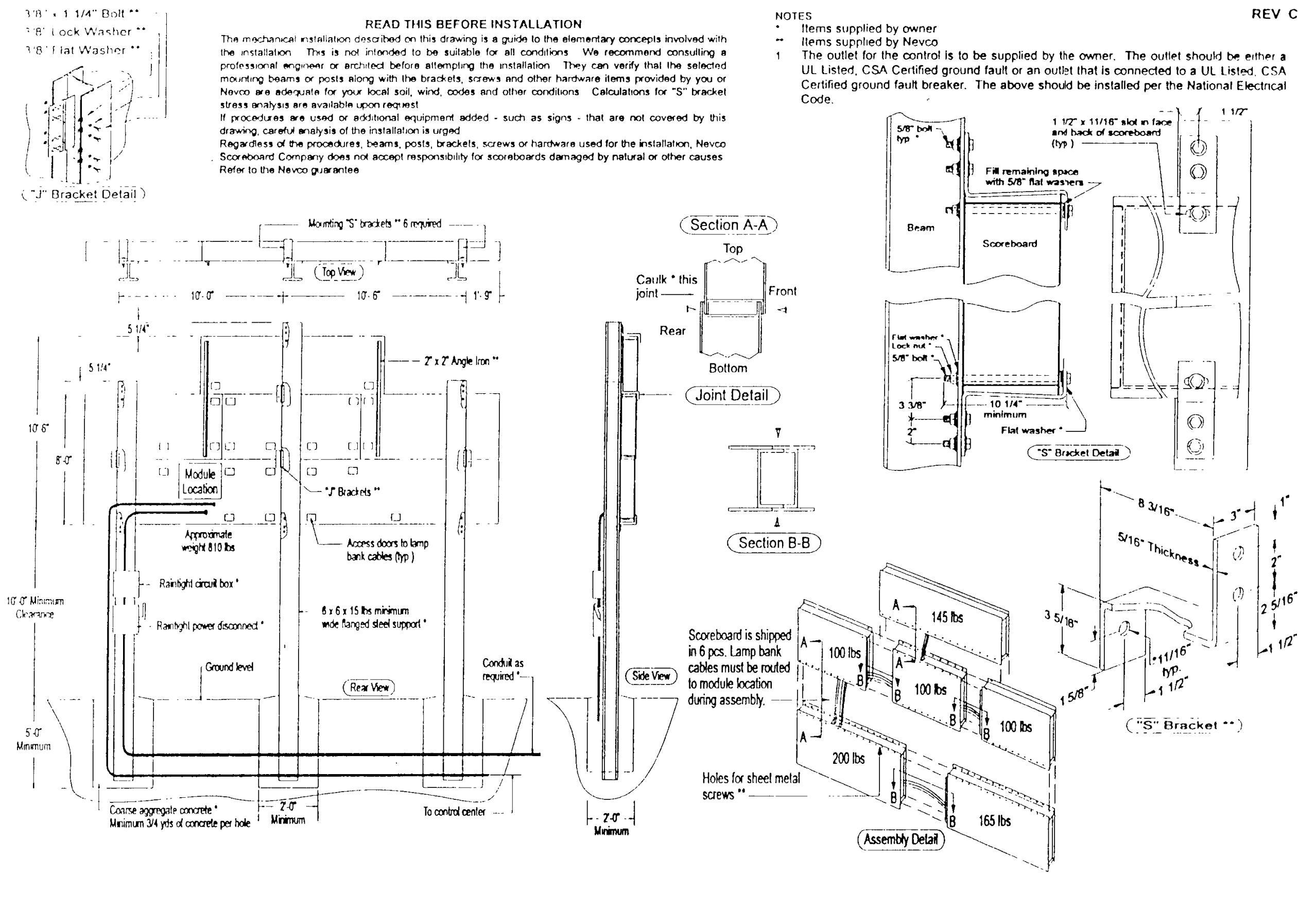
If procedures are used or additional equipment added - such as signs - that are not covered by this drawing, careful analysis of the installation is urged.

Regardless of the procedures, beams, posts, brackets, screws or hardware used for the installation, Nevco Scoreboard Company does not accept responsibility for scoreboards damaged by natural or other causes. Refer to the Nevco guarantee.

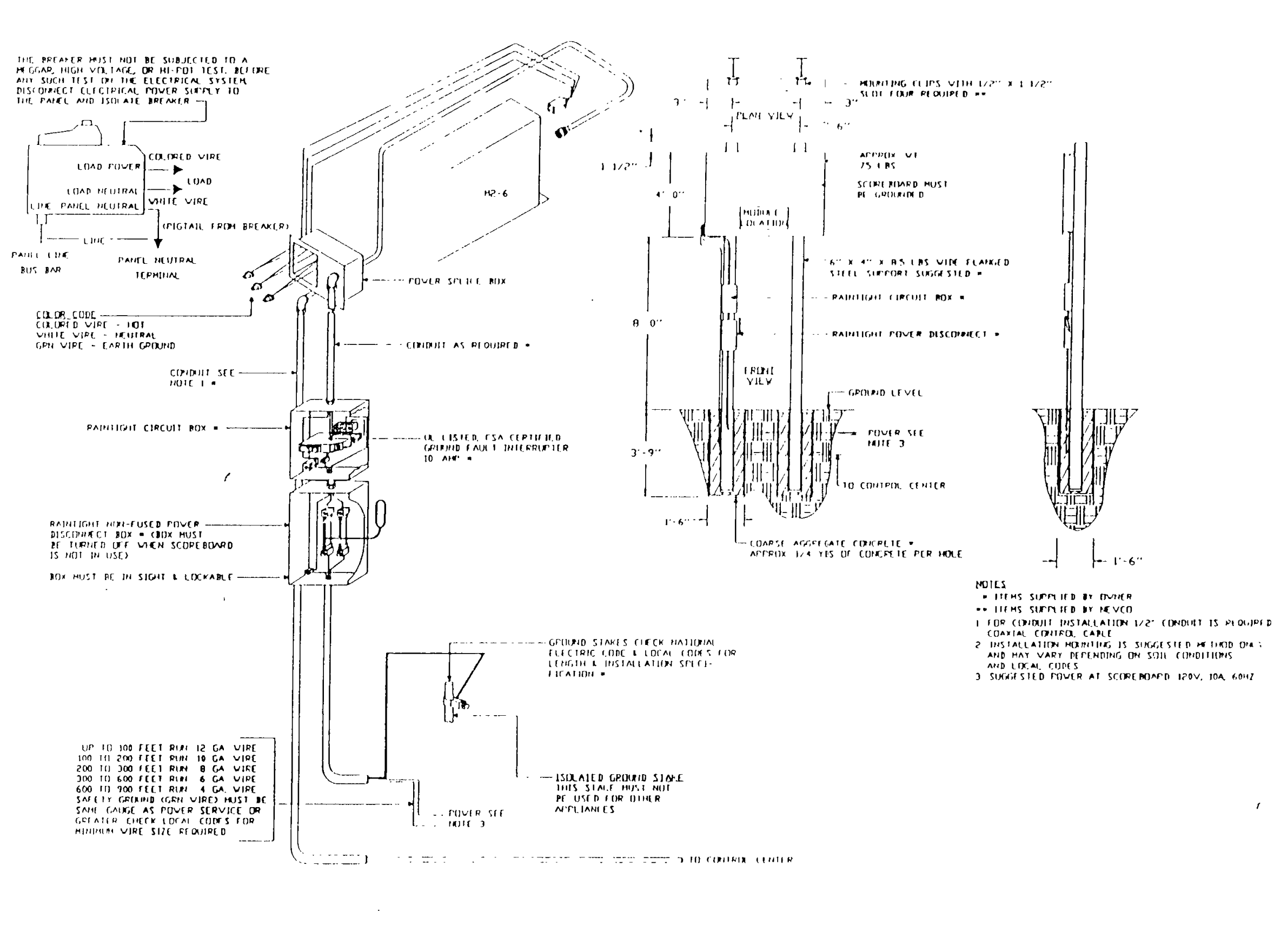
NOTES
- * Items supplied by owner
- ** Items supplied by Nevco

1 The outlet for the control is to be supplied by the owner. The outlet should be either a UL Listed, CSA Certified ground fault or an outlet that is connected to a UL Listed, CSA Certified ground fault breaker. The above should be installed per the National Electrical Code.

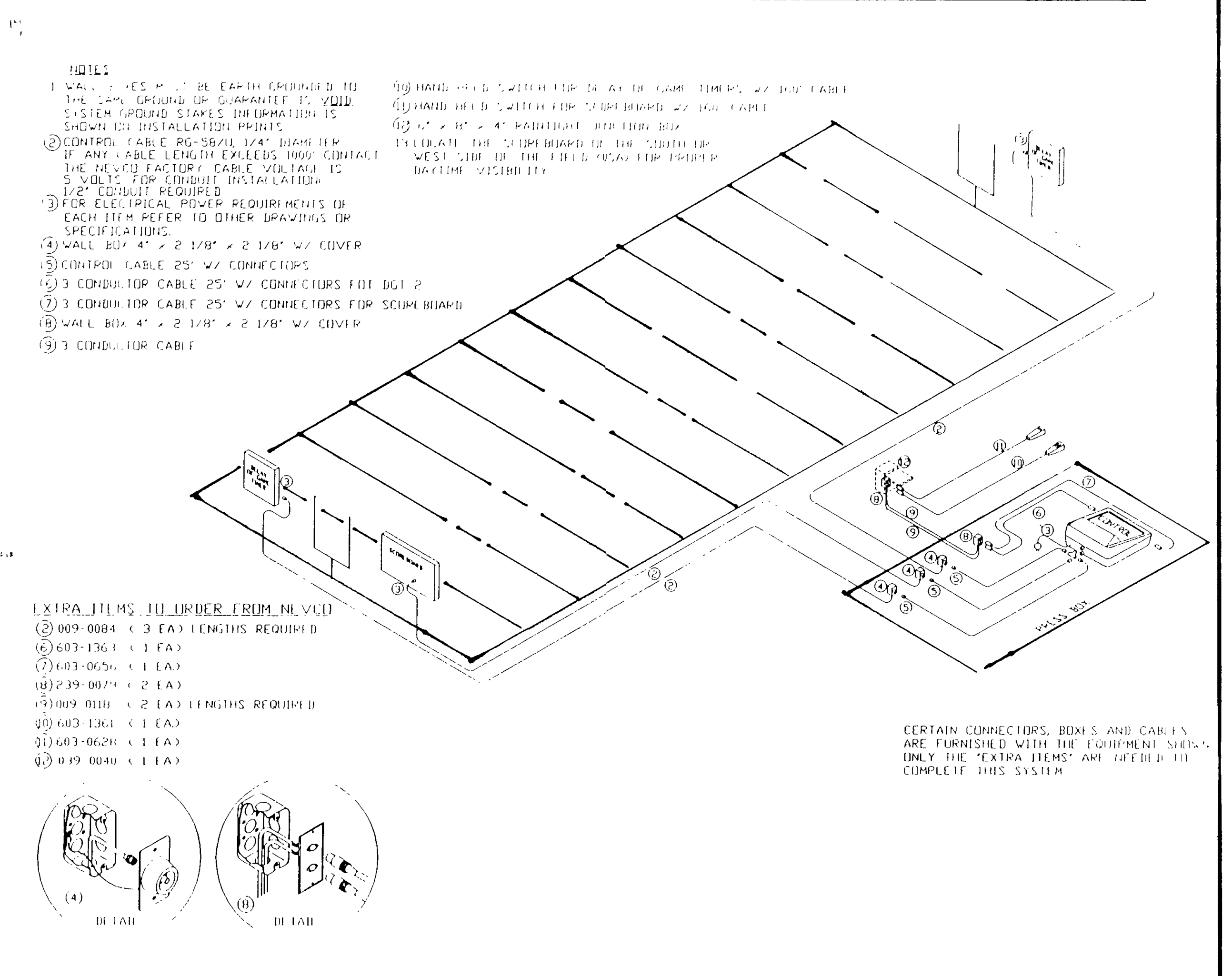
REV C



SCOREBOARD INSTALLATION



DELAY OF GAME CLOCK INSTALLATION



FIELD LAYOUT - TIME & SCORE INSTALLATION

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WILLIAM L. MOSBAUGH #16114

CERTIFIED
William L. Mosbaugh

THE ODLE McGUIRE & SHOOK CORPORATION
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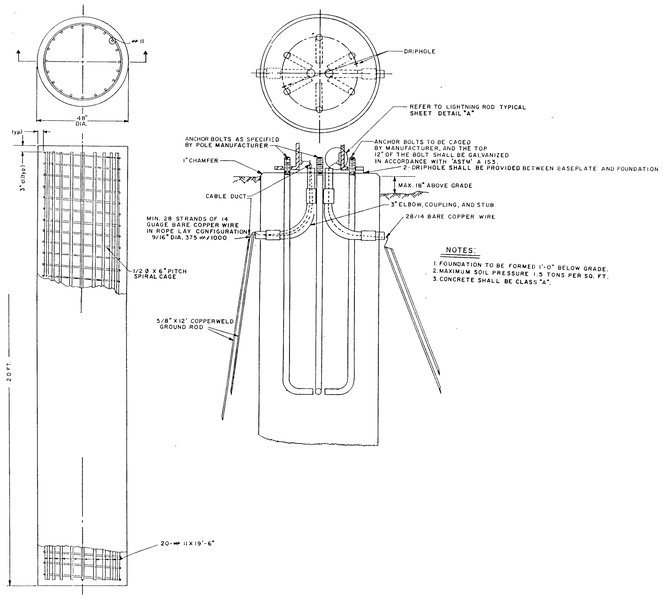
REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 93052
DATE:
drawn by: JJC
checked by: RSB

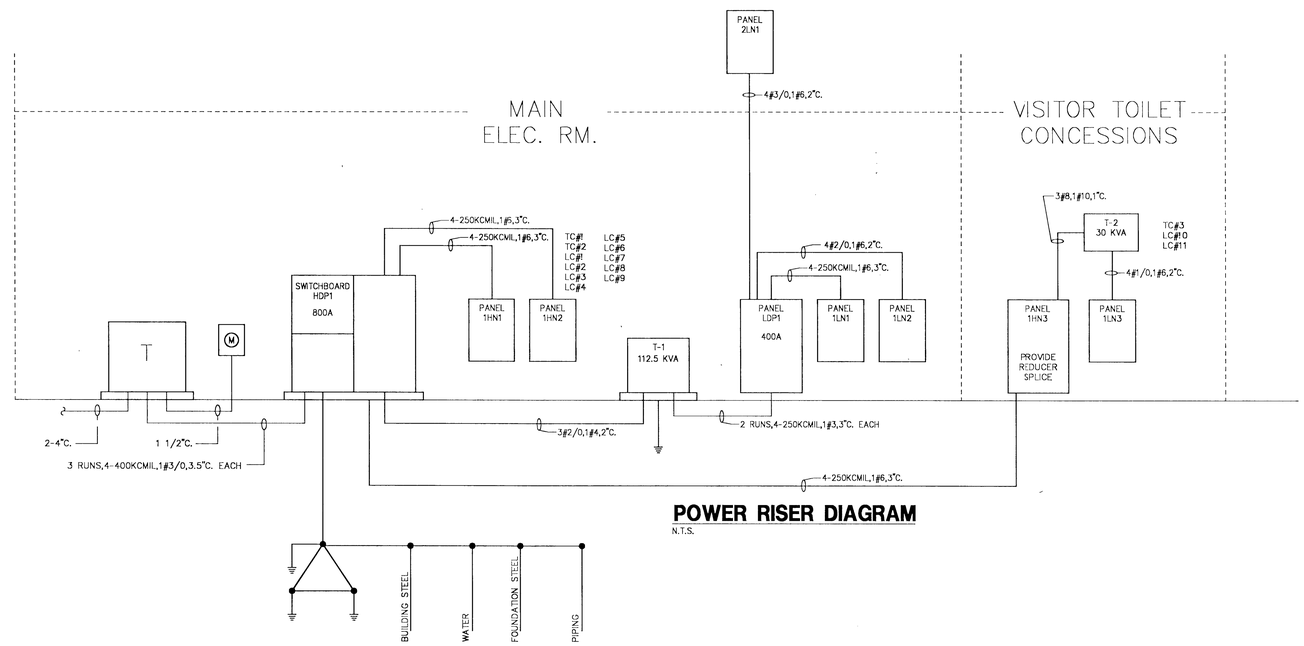
E301

ELECTRICAL SYMBOL LEGEND



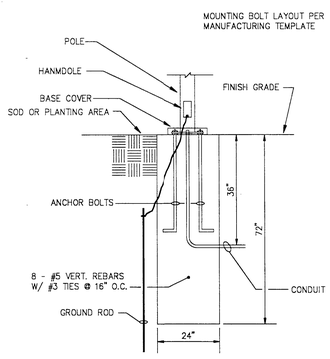
TOWER FOUNDATION DETAIL

N.T.S.



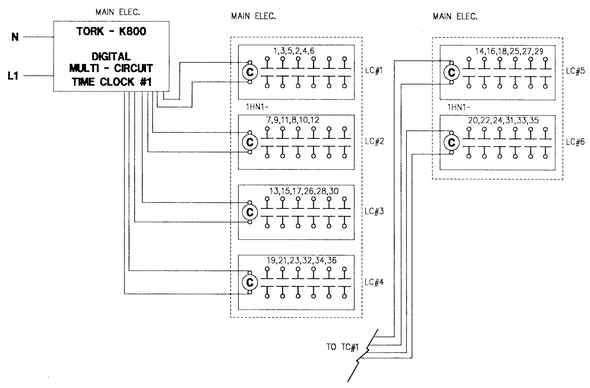
POWER RISER DIAGRAM

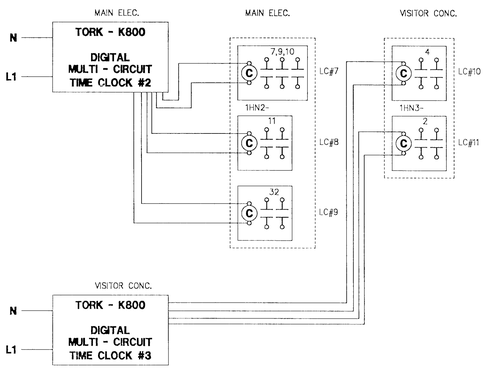
N.T.S.



LIGHT POLE BASE DETAIL

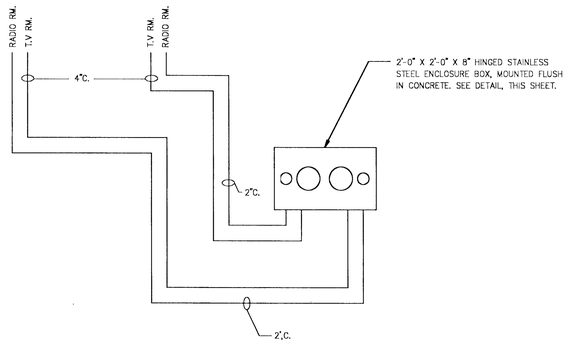
N.T.S.





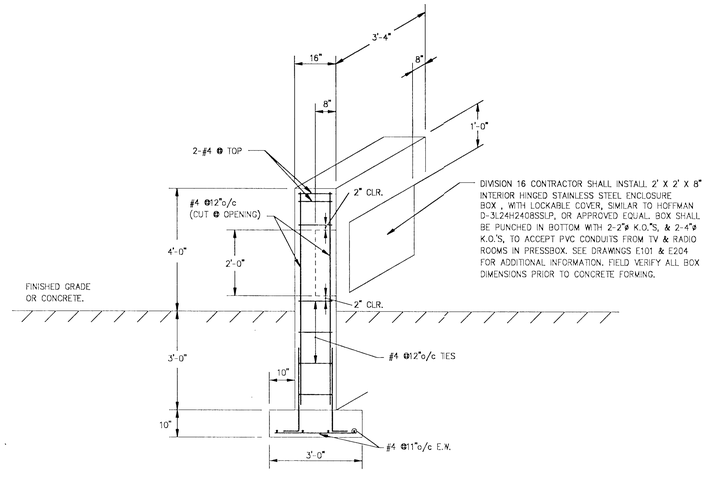
LIGHTING CONTROL DIAGRAM

NOT TO SCALE



TYPICAL T.V. AND RADIO CONDUIT SYSTEM

N.T.S.



SECTION THRU TYPICAL T.V. AND RADIO CONDUIT SYSTEM AT PARKING AREA

N.T.S.

WILLIAM L. MCGUIRE #16114 STATE OF INDIANA PROFESSIONAL ENGINEER

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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: JJC

checked by: RSB

E302

ELECTRICAL RISER DIAGRAM

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TYPE 'F5'

GENERAL DESCRIPTION:
FLUORESCENT, 4 FT,3 FT, 2 FT, SURFACE MOUNTED ABOVE MIRROR, DIRECT ILLUMINATION, DOWN LIGHT, TWO LAMP.
LAMP:
FLUORESCENT, TWO (2), T-12/MED BI-PIN, 35000K.
BALLAST:
277 VOLTS ENERGY EFFICIENT BALLAST.
CONSTRUCTION:
HOUSING & END PLATE: MIN. 20GA. C.R.S./DIE FORMED. WIRE MAY COVER: MIN. 24GA. C.R.S. SOCKET ASSEMBLY: CAPTIVE LAMP BRACKETS MIN. 18 GA. STEEL.
DIMENSIONS:
3.5 IN. BY 7.75 IN., LENGTH=4 FT.
FINISH:
BAKED ENAMEL, WHITE, FINISH APPLIED AFTER FABRICATION, COLOR TO BE SELECTED BY LIGHTING DESIGNER.
MOUNTING:
SURFACE FLUSH WITH THE BOTTOM OF THE CEILING ON THE WALL.
DIFFUSER:
MIN. THICKNESS=.125 IN., CLEAR, K-12 PATTERSN, VIRGIN ACRYLIC.
PHOTOMETRIC DATA - 2 FT. BELOW ON CENTERLINE, 2 FT. FROM WALL: 100 HORIZ. F.C.; 3 FT. BELOW ON CENTERLINE, 3 FT. FROM WALL: 51 HORIZ. F.C.
STANDARD:
NULITE BW-240-HRS-277-ELECTRONIC.
APPROVED MFRS.:
ALKCO, KLP, NULITE, DAY-BRITE, HUBBELL, PRECISION (PAL),
PRUDENTIAL, METALUX.

OMS LIGHT FIXTURE - FM7

TYPE 'F4'

GENERAL DESCRIPTION:
FLUORESCENT, 1 FT BY 4 FT, SURFACE OR PENDANT, CLOSED TOP INDUSTRIAL, TWO LAMP.
LAMP:
FLUORESCENT, TWO (2), T-12/MEDIUM BI-PIN, 35000K.
BALLAST:
277 VOLTS ENERGY EFFICIENT BALLAST.
CONSTRUCTION:
COLD ROLLED STEEL, HOUSING: MIN. 20 GA./DIE FORMED, END PLATES: MIN. 20 GA./DIE FORMED, SOCKET ASSEMBLY: CAPTIVE LAMP BRACKETS (T-8/MEDIUM BI-PIN) /MIN. 19 GA.
DIMENSIONS:
1 FT. BY 4 FT, MAX. HEIGHT = 5.5 IN., MIN. HEIGHT = 4.5 IN.
FINISH:
BAKED ENAMEL, WHITE, FINISH APPLIED AFTER FABRICATION, MIN. REFLECTANCE=85%
MOUNTING:
SURFACE ON THE CEILING, PENDANT BUT FLUSH WITH THE BOTTOM OF THE JOIST.
REFLECTOR:
COLD ROLLED STEEL, MIN. 24 GA., DIE FORMED, ROLLED EDGES, CLOSED TOP
STANDARD:
HUBBELL IG042R-PA10-E4-277-ELECTRONIC.
APPROVED MFRS.:
DAY-BRITE, HUBBELL, KLP, KEYSTONE, METALUX, WILLIAMS, LITHONIA.

OMS LIGHT FIXTURE - FM8

TYPE 'F3'

GENERAL DESCRIPTION:
FLUORESCENT, SURFACE MOUNT, U.L. LISTED FOR WET LOCATION, FOUR FEET, TWO LAMP.
LAMP:
FLUORESCENT, TWO (2), T-12/MEDIUM BI-PIN, 35000K.
BALLAST:
277 VOLT ENERGY EFFICIENT BALLAST.
CONSTRUCTION:
HOUSING: STEEL/CONTINUOUS WELDED SEAM. LATCH HINGE: STAINLESS
STEEL. COVER
PLATE: STEEL/FORMED. DRIP EDGE FLANGE FOR POSITIVE SEATING AND
GASKETING.
ENCLOSURE DOOR FRAME: FORMED ALUMINUM WITH DIE-CAST RIGIDIZERS AT
MITERED
CORNERS/HINGED EITHER SIDE.
DIMENSIONS:
WIDTH=9 IN., LENGTH=51 IN., HEIGHT=4.5 IN.
FINISH:
PORCELAIN ENAMEL FINISH.
MOUNTING:
SURFACE MOUNT ON THE CEILING, SECURE FIXTURE TO CEILING GRID COMPLETE WHEN REQUIRED, PROVIDE SUPPORTS FROM FIXTURE TO BUILDING STRUCTURE, PROVIDE PENDANT SUPPORT IN EXPOSED AREAS.
DIFFUSER:
MIN. THICKNESS=.125 IN., CLEAR SMOOTH K-12.
PHOTOMETRIC DATA:
A "C.U." OF AT LEAST .76 WITH R.C.R.=1, FLOOR CAVITY
REFLECTANCE=20%, CEILING
CAVITY REFLECTANCE=80% AND WALL REFLECTANCE=70%.
STANDARD:
NULITE DM-240RSS00-277V.
APPROVED MFRS.:
COLUMBIA, DAY-BRITE, HUBBELL, KLP, METALUX, MARK, WILLIAMS.

OMS LIGHT FIXTURE - FM5

TYPE 'F2'

GENERAL DESCRIPTION:
FLUORESCENT, 2FT BY 4FT, GRID, LAY-IN, THREE LAMPS, UL LISTED, WET LOCATION.
LAMP:
FLUORESCENT, THREE LAMPS, T-12/ MED BI-PIN, 35000K.
BALLAST:
277 VOLT, ENERGY EFFICIENT, DUAL SWITCHING.
CONSTRUCTION:
HOUSING: MIN. 20GA. C.R.S./DIE FORMED/ONE PIECE/FULL LENGTH STIFFENERS. END PLATES: MIN. 20 GA. C.R.S. WIRE WAY COVER: MIN. 24 GA. C.R.S. SOCKET ASSEMBLY: CAPTIVE LAMP BRACKETS (5-12/ MEDIUM BI-PIN)/ MIN. 18 GA. STEEL.
DIMENSIONS:
2FT X 4FT, MAX HEIGHT = 5 IN. MIN HEIGHT = 4.25 IN.
FINISH:
BAKED ENAMEL, WHITE, FINISH APPLIED AFTER FABRICATION, MIN. REFLECTANCE = 85%.
MOUNTING:
LAY-IN, SECURE FIXTURE TO BUILDING STRUCTURE.
DIFFUSER DOOR:
ALUMINUM, FLAT MITERED CORNERS, T-TYPE HINGES, HINGED EITHER SIDE, POSITIVE CAM ACTION LATCHES.
DIFFUSER:
MIN. THICKNESS = .125 IN., CLEAR, K-12 PATTERN, VIRGIN ACRYLIC.
PHOTOMETRIC DATA:
A "C.U." OF AT LEAST .68 WITH R.C.R.=1, FLOOR CAVITY REFLECTANCE=20%, CEILING CAVITY REFLECTANCE=80% AND WALL REFLECTANCE=70%.
STANDARD:
FAIL-SAFE CFG-24-3-40-1P12-ALP-ESB.
APPROVED MFRS.:
COLUMBIA, HUBBELL, KLP, FAIL-SAFE, WILLIAMS, DAY-BRITE, LITHONIA.

OMS LIGHT FIXTURE - FL14

TYPE 'F1(a)'

GENERAL DESCRIPTION:
FLUORESCENT, 2FT BY 4FT, GRID LAY-IN, STATIC, THREE LAMPS, UL LISTED.
LAMP:
FLUORESCENT, THREE LAMPS, T-12/ MED BI-PIN, 35000K.
BALLAST:
277 VOLT, ENERGY EFFICIENT, DUAL SWITCHING.
CONSTRUCTION:
HOUSING: MIN. 22GA C.R.S./DIE FORMED/ONE PIECE/FULL LENGTH STIFFENERS. END PLATES: MIN. 20 GA. C.R.S. WIRE WAY COVER: MIN. 24 GA. C.R.S. SOCKET ASSEMBLY: CAPTIVE LAMP BRACKETS (T-12/ MEDIUM BI-PIN)/ MIN. 18 GA. STEEL.
DIMENSIONS:
2FT X 4FT, MAX HEIGHT = 5 IN. MIN HEIGHT = 4.25 IN.
FINISH:
BAKED ENAMEL, WHITE, FINISH APPLIED AFTER FABRICATION, MIN. REFLECTANCE = 85%.
MOUNTING:
GRID LAY-IN, SECURE FIXTURE TO STRUCTURE.
DIFFUSER DOOR:
ALUMINUM, FLAT MITERED CORNERS, T-TYPE HINGES, HINGED EITHER SIDE, POSITIVE CAM ACTION LATCHES.
DIFFUSER:
MIN. THICKNESS = .125 IN., CLEAR, K-12 PATTERN, VIRGIN ACRYLIC.
PHOTOMETRIC DATA:
A "C.U." OF AT LEAST .68 WITH R.C.R.=1, FLOOR CAVITY REFLECTANCE=20%, CEILING CAVITY REFLECTANCE=80% AND WALL REFLECTANCE=70%.
STANDARD:
HUBBELL RD3GNC02-54-C-277-EQ
APPROVED MFRS.:
COLUMBIA, HUBBELL, KLP, METALUX, WILLIAMS, DAY-BRITE, LITHONIA.
ADDITIONAL NOTES:
(a) DENOTES A FLANGED FIXTURE WITH FIRE RATED ENCLOSURE TO BE MOUNTED IN FIRE RATED CEILING.

OMS LIGHT FIXTURE - FL1

TYPE 'K1'

GENERAL DESCRIPTION:
INCANDESCENT, RECESSED, DOWN LIGHT ALZAK CONE, ONE LAMP, UL LISTED.
LAMP:
INCANDESCENT, ONE (1), 150 WATT A21.
CONSTRUCTION:
REFLECTOR HOUSING: HEAVY GA., ONE PIECE DIE CAST PLASTER FRAME WITH UNIVERSAL HANGER BRACKETS. HEAT SINK: .070 IN. EXTRUDED ALUMINUM WITH CAST CAP AND SIDE ENTRY CONNECTOR. UNIT PREWIRED WITH FLEX. CONNECTOR AND JUNCTION BOX MOUNTED ON PLASTER FRAME.
MEDIUM BASE SOCKET.
DIMENSIONS:
MAX. HEIGHT = 9 IN., 7 IN. DIAMETER
FINISH:
REFLECTOR CONE: CLEAR, TRIM WHITE.
MOUNTING:
RECESSED, 1/2 IN. NARROW LOW GLASS WHITE TRIM.
REFLECTOR:
0.050 SPECULAR ALZAK
PHOTOMETRIC DATA:
A "C.U." OF AT LEAST 0.85 WITH R.C.R.=1, FLOOR VACITY REFLECTANCE=20%, CEILING CAVITY REFLECTANCE=80% AND WALL REFLECTANCE=70%.
STANDARD:
INFINITY A60-150.
APPROVED MFRS.:
GOTHAM, KURT VERSEN, LIGHTOLIER, MARCO, PRESCOLITE, CAPRI, HALO,
NL.

OMS LIGHT FIXTURE - K4

TYPE 'E'

GENERAL DESCRIPTION:
LIGHT EMITTING DIODE POWERED EXIT LIGHT. REFER TO E SERIES DRAWINGS FOR LEFT/RIGHT, SINGLE OR DOUBLE ARROW.
LAMP:
VIBRATION RESISTANT LIGHT EMITTING DIODE LIGHT SOURCE WITH 80 YEAR LAMP LIFE.
BALLAST:
120/277 DUAL.
CONSTRUCTION:
HOUSING: PRECISION MOLDED, DIE-CAST ALUMINUM WITH FULLY OVERLAPPING LIGHT SEALS AND NO LIGHT LEAKS. BRUSHED ALUMINUM FACEPLATE. POLYCARBONATE FACE SHIELD. UNIVERSAL DIRECTIONAL ARROW, KNOCKOUTS. HIGHED FACEPLATE WITH SPRING LATCHES.
DIMENSIONS:
HEIGHT - 7.5", WIDTH = 12", DEPTH = 3", FACE DEPTH = 1-3/4", LETTER HEIGHT = 6" W/ 3/4" STROKE.
FINISH:
FINISH TO BE WHITE W/GREEN LETTERS.
MOUNTING:
SURFACE MOUNTED. REFER TO DRAWINGS FOR CEILING OR WALL MOUNT.
ADDITIONAL NOTES:
PROVIDE A 1.2 IN HIGH CANOPY, FOR CEILING MOUNTED UNITS.
STANDARD:
HUBBELL #LED-1-EM-G-W-W
APPROVED MFRS.:
HUBBELL, GILBERT, SAUNDERS-ROE, ISOLITE, SURELITE.

OMS LIGHT FIXTURE - E4

TYPE 'F8'

GENERAL DESCRIPTION:
FLUORESCENT, 5" BY 7", RECESSED MOUNTED (IN WALL) STEP LIGHT. ASYMMETRIC FOWARD DISTRIBUTION, UL LISTED WET LOCATION.
LAMP:
FLUORESCENT, ONE LAMP PL13, 13 WATT.
BALLAST:
277 VOLT
CONSTRUCTION:
HOUSING: MIN. 18GA. GALVANIZED STEEL. FRONT: CAST ALUMINUM.
DIMENSIONS:
HEIGHT=6 IN., DEPTH=4 IN., WIDTH=13 IN.
FINISH:
FRONT: ANTI-CORROSIVE ALUMINUM. HOUSING: ASPHALTIC COATING ON EXTERIOR/BAKED ENAMEL (WHITE) INTERIOR.
MOUNTING:
RECESS IN WALL, HEIGHT TO BE DETERMINED BY ARCHITECT.
LENS:
IMPACT RESISTANT GLASS WITH GASKET.
STANDARD:
LIGHTECH INC. SL-8120-F-PL13-G-W-F227V.
APPROVED MFRS.:
ALKCO, COLE, LIGHT TEC, PRESCOLITE.

OMS LIGHT FIXTURE - FM12

TYPE 'F7'

GENERAL DESCRIPTION:
FLUORESCENT, HIGH ABUSE, WALL MOUNT, UL LISTED FOR WET LOCATION.
LAMP:
FLUORESCENT, TWO (2), TWIN TUBE 2PL13.
BALLAST:
277 VOLT, HPF.
CONSTRUCTION:
HOUSING: IMPACT RESISTANT POLYCARBONATE HOUSING WITH TAMPERPROOF
SCREWS.
BASE: ONE PIECE CAST ALUMINUM MOUNTING BASE.
DIMENSIONS:
14" WIDE BY 7" HIGH BY 4" DEEP.
FINISH:
BENJAMIN MOORE 602 (SPECIAL).
MOUNTING:
WALL MOUNT.
DIFFUSER:
IMPACT RESISTANT POLYCARBONATE PRISMATIC LENS.
STANDARD:
FAIL SAFE FSS-W-2/13-277-9311.
APPROVED MFRS.:
FAIL-SAFE VANDAL PROOF, KENALL, MARK, MORELITE, NORTHERN LITE.

OMS LIGHT FIXTURE - H/FS9

TYPE 'F6'

GENERAL DESCRIPTION:
FLUORESCENT, 4FT, SURFACE, MAXIMUM SECURITY, TWO LAMPS, UL LISTED WET LOCATION.
LAMP:
FLUORESCENT, TWO (2), T-12/MED BI-PIN, 35000K.
BALLAST:
120 VOLT. ELECTRONIC BALLAST.
CONSTRUCTION:
HOUSING: CRS 16GA C.R.S. BACK PLATE: MIN. 16GA.
C.R.S./ONE-PIECE
WIREWAY: MIN. 18GA C.R.S., MIN. SIX TAMPERPROOF SCREWS SECURING DIFFUSER TO BACKPLATE, SOCKET ASSEMBLY: CAPTIVE LAMP BRACKETS (T-12/MEDIUM BI-PIN)/MIN. 18GA. C.R.S.
DIMENSIONS:
7" WIDE BY 48" LONG AND 14" HIGH.
FINISH:
BAKED ENAMEL, WHITE, OVER CORROSION RESISTANT COATING.
MOUNTING:
WALL MOUNT.
DIFFUSER DOOR:
DIE FORMED MIN. 16GA. C.R.S.
DIFFUSER:
.25" CLEAR POLYCARBONATE.
STANDARD:
NORTHERN SWT-D-I-24R-7/CW-WL/277.
APPROVED MFRS.:
FAIL-SAFE VANDAL PROOF, KENALL, MARK, MORELITE, NORTHERN LITE,
VERSA-TECH.

OMS LIGHT

FIXTURE - H/FS6

TYPE 'M4'

GENERAL DESCRIPTION:
METAL HALIDE, SPORT LUMINAIRE, POLE MOUNTED, U. LISTD FOR WEATHER PROOF. ONE LAMP WITH VISORS.
LAMP:
METAL HALIDE, ONE (1), 1500 WATT.
BALLAST:
277/480 VOLT, COLD WEATHER.
CONSTRUCTION:
HOUSING: HEAVY GAUGE ALUMINUM, WITH CORROSION RESISTANT HARDWARE, HIGH TEMPERATURE SILICONE GASKETING, SIGHT THROUGH LATCH AIMING. RUNNINION: HEAVY GAUGE STEEL, CORROSION RESISTANT. PROVIDE FUSES, SO CORD, VISORS, CHARCOAL FILTER BREATHER.
DIMENSIONS:
24" HIGH, 20" DEEP.
FINISH:
LEKTROCOTE FINISH.
MOUNTING:
TO BE POLE MOUNTED AS SHOWN.
DIFFUSER DOOR:
STAINLES STEEL RING WITH SPRING LATCHES.
LENS:
THERMAL SHOCK, IMPACT RESISTANT TEMPERED CLEAR GLASS.
REFLECTOR:
ONE PIECE ALUMINUM PARABOLIC REFLECTOR.
ADDITIONAL NOTES:
POLE SHALL BE 75' HIGH STEEL WITH 100 MPH, WITH BRACKETS, ETC. PROVIDE 4' ROUND BY 20' DEEP CONCRETE BASE WITH REINFORCED STEEL. PROVIDE COMPLETE AIMING LAYOUT. SYSTEM WAS DESIGNED FOR 30 F.C. MAINTAINED.
STANDARD:
HUBBELL SLG-1500H-5-12/13/14/15/16/X-C6-F-CFB-UA-L-LR-30-4090-4024C-MLS-07031 (75' FOR 100 MPH WIND).
APPROVED MFRS.:
GENERAL ELECTRIC, HI-TEK, HUBBELL.
MUSCO- ALTERNATE BID.

OMS LIGHT FIXTURE - MH27

TYPE 'M3'

GENERAL DESCRIPTION:
HIGH INTENSITY DISCHARGE, POST TOP MOUNTED LUMINAIRE, UL LISTED WET LOCATIONS, WITH SPECIAL SHAPE, APPEARANCE AND PERFORMANCE.
LAMP:
MOGUL BASE, CLEAR, ED17 SHAPE, METAL HALIDE, ONE LAMP, 175 WATT, CLEAR.
BALLAST:
277 VOLT, -20 DEGREE COLD WEATHER RATED, HIGH POWER FACTOR CORE AND COIL, INTEGRALLY MOUNTED IN FIXTURE.
CONSTRUCTION:
CAST IRON AND CAST ALUMINUM FITTERS AND CASINGS.
DIMENSIONS:
HEIGHT=41 IN., DIAMETER=18 IN.
FINISH:
PRIME PAINT FACTORY APPLIED. FINISH COAT FIELD INSTALLED.
MOUNTING:
POST TOP MOUNTED ON "ONE PIECE CAST IRON" POLE. LIGHT CENTER 14'-0" ABOBE BASE OF POLE.
LENS:
INJECTION MOLDED REFRACTIVE PRISMATIC POLYCARBONATE, WITH HYDROFORMED REFLECTOR AND ASYMMETRIC TYPE III DISTRIBUTION. FINIAL MOUNTED ON TOP.
ADDITIONAL NOTES:
EACH APPROVED MFR. MUST SUBMIT A SAMPLE FIXTURE AND POLE FOR ENGINEER/OWNER REVIEW.
STANDARD:
SPRING CITY # WASHINGTON - 118 REFRACTIVE GLOBE W/FINIAL.
NORTHHAMPTON 10'-0" POST WITH WASHINGTON CASING.
APPROVED MFRS.:
ANTIQUE STREET LAMPES, STERNBERG, HADCO, SPRING CITY, TRIMBLE
HOUSE, VISCO.

OMS LIGHT FIXTURE - M22

TYPE 'M2'

GENERAL DESCRIPTION:
HIGH INTENSITY DISCHARGE, FLOOD LIGHT BRACKET MOUNTED, ONE LAMP, UL LISTED FOR WET LOCATION.
LAMP:
METAL HALIDE, ONE 175 WATT COATED, BT-37, INIT. LUMENS 14000.
BALLAST:
277 VOLT, COLD WEATHER.
CONSTRUCTION:
DIE CAST ALUMINUM HOUSING WITH REMOVABLE GASKETED REAR HOUSING FOR RELAMPING ACCESS. TRUNNION MOUNTING.
DIMENSIONS:
WIDTH =14IN., HEIGHT =9IN.
FINISH:
DARK BRONZE.
MOUNTING:
POLE MOUNTED ON BRACKETS.
LENS:
THERMAL SHOCK AND HIGH-IMPACT RESISTANT CLEAR GLASS LENS SEALED TO FIXTURE DOOR BY CONTINUOUS SILICONE GASKET.
REFLECTOR:
HYDROFORMED ALUMINUM PARABOLIC REFLECTOR WITH DIFFUSE FINISH.
ADDITIONAL NOTES:
PROVIDE 3FT. 16/3 SO CORD PREWIRED AND SINGLE FUSE.
PHOTOMETRIC DATA:
IES/NEMA TYPE AS NEEDED.
STANDARD:
HUBBEL MHS-0175H-268-4090-4024C-4944.
APPROVED MFRS:
GENERAL ELECTRIC CO., HI-TEK, HUBBELL, LUMARK, McGRAW-EDISON.

OMS LIGHT FIXTURE - MS6

TYPE 'M1'

GENERAL DESCRIPTION:
METAL HALIDE, RECESSED, 8", OPEN APERTURE DOWNLIGHT, WITH LENS, ONE LAMP, UL LISTED.
LAMP:
METAL HALIDE, COATED, ONE (1), 75 WATT ED17, MED. BASE, M101, INIT. LUMENS 5200, C.R.I. 65.
BALLAST:
277 VOLT DUAL, ENCASED AND POTTED.
CONSTRUCTION:
HOUSING: MIN. 20 GA. C.R.S. FRAME: MIN. 16 GA. GALVANIZED STEEL, DIE-FORMED. LAMP SOCKET: MOGUL BASE IN EXTRUDED ALUMINUM HEAT SINK. BALLAST & SPLICE BOX ACCESSIBLE FROM BELOW THE CEILING, WITH 2-27 IN. MOUNTING BARS.
DIMENSIONS:
MAX. RECESSED HEIGHT = 11", TRIM DIAMETER 8".
FINISH:
TRIM WHITE.
MOUNTING:
RECESSED WITH PROVISIONS FOR MOUNTING IN PLASTER, DRYWALL OR GRID CEILING, PROVIDE SUPPORT AS NEEDED.
LENS:
REGRESSED GLASS LENS, LOWER MATE BLACK REFLECTOR.
REFLECTOR:
UPER CLEAR ALZAK, LOWER MATTE BLACK.
PHOTOMETRIC DATA:
A "C.U." OF AT LEAST .69 WITH R.C.R.=1, FLOOR CAVITY=20%, CEILING CAVITY=80% AND WALL REFLECTANCE=70%.
STANDARD:
INFINITY MH75-70-F.
APPROVED MFRS.:
GOTHAM, HALO, KURT VERSEN, MARCO, N/L, PRESCOLITE, INFINITY,
KIRLIN.

OMS LIGHT FIXTURE - MH10

TYPE 'K2'

GENERAL DESCRIPTION:
INCANDESCENT. SURFACE, VAPORTITE, SCREW-ON GLOBE & GUARD, ONE LAMP.
LAMP:
INCANDESCENT, ONE (1), 100 WATT, A19 IF.
CONSTRUCTION:
BODY: DIE-CAST ALUMINUM. GUARD: DIE-CAST ALUMINUM.
FINISH:
DIE-CAST ALUMINUM.
MOUNTING:
SURFACE, SEE DWG.(S) FOR WALL OR CEILING MOUNT.
LENS:
GLOBE: GLASS.
STANDARD:
KEENE VCXL-11 SERIES.
APPROVED MFRS:
BENJAMIN, CROUSE HNDS, KEENE-STONCO, MARCO, HUBBELL

OMS LIGHT FIXTURE - K1

TYPE 'M7'

GENERAL DESCRIPTION:
H.P.S., WALLIGHTER, SURFACE MOUNT, ONE LAMP, UL FOR WET LOCATIONS.
LAMP:
HIGH PRESSURE SODIUM, 175 WATT, E-17, MEDIUM BASE.
BALLAST:
277 VOLT, LOW TEMP.
CONSTRUCTION:
LENS FRAME: DIE-CAST ALUMINUM. BACK PLATE: DIE-CAST ALUMINUM WITH GASKETED RAIN SHIELD. LENS FRAME GASKET: LIQUID SILICONE RUBBER/ PERMANENT ADHESION/ INTERFACE BETWEEN LENS FRAME AND BACK PLATE. SOCKET: GLAZED PORCELAIN/ MOGUL BASE. VANDAL RESISTANT SCREWS.
DIMENSION:
MAX. WIDTH=15 IN., MAX. DEPTH=8 IN, MAX, HEIGHT=14 IN.
FINISH:
FINISH TO BE BRONZE LEKTROCOTE.
MOUNTING:
WALL MOUNTED, SEE A SERIES DRAWINGS FOR HEIGHT.
REFLECTOR:
REFLECTOR-REFLECTOR COMBINATION. REFLECTOR: ASYMMETRIC DESIGN/ SPECULAR ANODIZED ALUMINUM. REFRACTOR: ONE PIECE/ WRAP-AROUND/ BOROSILICATE/ BONDED TO LENS FRAME/ PRISMATIC INNER AND OUTER SURFACES.
STANDARD:
HUBBELL PVL-0175H-118-F-TR.
APPROVED MFRS:
BENJAMIN, GENERAL ELECTRIC CO., HI-TEK, HUBBELL, LUMARK, McGRAW-
EDISON, QL.

OMS LIGHT FIXTURE - MS3

TYPE 'M6'

GENERAL DESCRIPTION:
GOTHIC STYLE LUMINAIRE WITH ALUMINUM 8 SIDED HOUSING, OPAQUE GLASS LENSES, AND GASKETED GLASS UP/DN OPENINGS. FIXTURE TO BE WALL MOUNTED.
LAMP:
METAL HALIDE 400 WATT CLEAR.
DIMENSIONS:
WIDTH=15", HEIGHT=30"
STANDARD:
STERNER GY-30-BB-400H-277-
FINISH:
BENJAMIN MOORE 602
ADDITIONAL NOTES:
ALLOWANCE FOR TYPE 'M6' FIXTURE IS $1100 EACH.

OMS LIGHT FIXTURE - MH14

TYPE 'M5'

GENERAL DESCRIPTION:
GOTHIC STYLE LUMINAIRE WITH ALUMINUM 8 SIDED HOUSING, OPAQUE GLASS LENSES, AND GASKETED GLASS UP/DN OPENINGS. FIXTURE TO BE WALL MOUNTED.
LAMP:
METAL HALIDE 400 WATT CLEAR.
DIMENSIONS:
WIDTH=15", HEIGHT=42"
STANDARD:
STERNER GY-42-BB-400H-277-
FINISH:
BENJAMIN MOORE 602
ADDITIONAL NOTES:
ALLOWANCE FOR TYPE 'M5' FIXTURE IS $1350 EACH.

OMS LIGHT FIXTURE - MH14

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WILLIAM L. MUSGRAVE
REGISTERED #16114 STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED

THE ODLE McGUIRE & SHOOK CORPORATION
ARCHITECTURE • ENGINEERING • LANDSCAPE ARCHITECTURE • INTERIOR DESIGN
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REVISIONS

MICHIGAN CITY SPORTS COMPLEX

AMES FIELD

MICHIGAN CITY, INDIANA

PROJECT NO. 93052

DATE: MAY 31, 1994

drawn by: JJC
checked by: RSB

E303

LIGHT FIXTURE SCHEDULE

JOB NAME: AMES MAIN: ☐ MNOR. ☐ FLUSH ■ NEMA 1 LOCATION: Elect. Rm.
JOB NO.: 93052 ☐ CR. BRKR. ☐ EQU. ■ SURF. ☐ NEMA 3R NOTES:
PANEL 1HN1 | AMP 200 | VOLT 277/480 | Ø 3 | W 4 | ☐ LUGS ☐ LF | ☐ DOUBLE ☐ NEMA
SECTION | A.I.C. R.M.S. SYM. RATING

CIR.	POLE	TRIP	LITE	EQUIP	HEAT	Ø	A/C	●	FUR.	POLE	TRIP	CIR.	DESCRIPTION
1						A							
Pole #1/P2	3	3	40	8.3		B						2	
				8.3		B				3	40	4	Pole # P3
5						C							
						C						6	
7						A							
						A						8	
Pole #P2	9	3	40	8.3		B							
				8.3		B				3	40	10	Pole # P3
11						C							
						C						12	
13						A							
						A						14	
Pole # P1	15	3	40	8.3		B							
				8.3		B				3	40	16	Pole # P4
17						C							
						C						18	
19						A							
						A						20	
Pole # P1	21	3	40	8.3		B							
				8.3		B				3	40	22	Pole # P4
23						C							
						C						24	
25						A							
						A						26	
Pole # P6	27	3	40	8.3		B							
				8.3		B				3	40	28	Pole # P5
29						C							
						C						30	
31						A							
						A						32	
Pole # P6	33	3	40	8.3		B							
				8.3		B				3	40	34	Pole # P5
35						C							
						C						36	
SPARE	37					A							
						A						38	SPARE
"	39					B							
						B				3		40	"
"	41					C							
						C						42	"

JOB NAME: AMES MAIN: ☐ MNOR. ☐ FLUSH ■ NEMA 1 LOCATION:
JOB NO.: 93052 ☐ CR. BRKR. ☐ EQU. ■ SURF. ☐ NEMA 3R NOTES:
PANEL 2LN1 | AMP 125 | VOLT 120/208 | Ø 3 | W 4 | ☐ LUGS ☐ LF | ☐ DOUBLE ☐ NEMA
SECTION | A.I.C. R.M.S. SYM. RATING

CIR.	POLE	TRIP	LITE	EQUIP	HEAT	Ø	A/C	●	FUR.	POLE	TRIP	CIR.	DESCRIPTION
Receptl	1		20			A			2				
						A			2		20	2	Recept
"	3		20			B			2				
						B			2		20	4	"
"	5		20			C			2				
						C			2		20	6	"
"	7		20			A			2				
						A			2		20	8	"
"	9		20			B			2				
						B			2		20	10	"
"	11		20			C			2				
						C			2		20	12	"
"	13		20		1.0	A			2				
					1.0	A					20	14	S.S.
"	15		20			B			2				
					1.0	B					20	16	"
"	17		20			C			2				
					1.0	C					20	18	LTG
LTG	19		20	1.0		A							
				1.0	4	A				2	30	20	CUH-A3, A6
CUH-A3, A4	21	2	30		4	B							
						B						22	
	23					C							
					1.0	C					20	24	HWCP-1
HWB PMP	25		20		1	A							
					1.0	A					20	26	HOT WATER HT
Recept	27		20		1	B			2				
						B			2		20	28	Recept B112
SPARE	29		20			C							
						C					20	30	SPARE
"	31		20			A							
						A					20	32	"
"	33		20			B							
						B					20	34	"
"	35		20			C							
						C					20	36	"
S.S. Back	37		20		1.2	A							
					1.2	A					20	38	S.S. Back
" "	39		20		1.2	B							
					1.2	B					20	40	" "
	41					C							
						C						42	

JOB NAME: AMES MAIN: ☐ MNOR. ☐ FLUSH ■ NEMA 1 LOCATION:
JOB NO.: 93052 ☐ CR. BRKR. ☐ EQU. ■ SURF. ☐ NEMA 3R NOTES:
PANEL 1LN2 | AMP 125 | VOLT 120/208 | Ø 3 | W 4 | ☐ LUGS ☐ LF | ☐ DOUBLE ☐ NEMA
SECTION | A.I.C. R.M.S. SYM. RATING

CIR.	POLE	TRIP	LITE	EQUIP	HEAT	Ø	A/C	●	FUR.	POLE	TRIP	CIR.	DESCRIPTION
CONC. STAND	1		20			A		2					
					2.	A				2	20	2	SPECIAL
" "	3		20			B		2					
						B						4	
" "	5		20			C		2					
						C		2			20	6	Recept
"	7		20			A							
					3	A				2	30	8	SPECIAL
EF-A3	9		20		1.0	B							
						B						10	
Dbl	11		20		1	C							
					1.0	C					20	12	Ice Maker
Elev. Controller	13		20		1	A							
						A					20	14	SPARE
SPARE	15		20			B							
						B					20	16	"
"	17		20			C							
						C					20	18	"
"	19		20			A							
						A					20	20	"
"	21		20			B							
						B					20	22	"
"	23		20			C							
					1.0	C					20	24	Pump
	25					A							
						A						26	
	27					B							
						B						28	
	29					C							
						C						30	
	31					A							
						A						32	
	33					B							
						B						34	
	35					C							
						C						36	
	37					A							
						A						38	
	39					B							
						B						40	
	41					C							
						C						42	

JOB NAME: AMES MAIN: ☐ MNOR. ☐ FLUSH ■ NEMA 1 LOCATION:
JOB NO.: 93052 ☐ CR. BRKR. ☐ EQU. ■ SURF. ☐ NEMA 3R NOTES:
PANEL 1LN1 | AMP 200 | VOLT 120/208 | Ø 3 | W 4 | ☐ LUGS ☐ LF | ☐ DOUBLE ☐ NEMA
SECTION | A.I.C. R.M.S. SYM. RATING

CIR.	POLE	TRIP	LITE	EQUIP	HEAT	Ø	A/C	●	FUR.	POLE	TRIP	CIR.	DESCRIPTION
SCORE BOARD	1		60		1.4	A							
					-	A		2			20	2	TICKET Booth
Com. Line	3		20		1.0	B							
						B		3			20	4	Recept
" "	5		20		1.0	C							
						C		3			20	6	"
Recept.	7		20			A		3					
						A		3			20	8	"
"	9		20			B		4					
						B		3			20	10	"
"	11		20			C		4					
						C					20	12	Elev.
HAIR DRYERS	13		30		2.3	A							
					2.3	A					30	14	HAIR DRYERS
" "	15		30		2.3	B							
					2.3	B					30	16	" "
" "	17		30		2.3	C							
					2.3	C					30	18	" "
" "	19		30		2.3	A							
					2.3	A					30	20	" "
Recept	21		20			B		3					
						B		3			20	22	Recept
"	23		20			C		3					
						C		3			20	24	"
"	25		20			A		3					
						A		3			20	26	"
"	27		20		1	B		1					
						B		3			20	28	"
CUH. LTG	29		20		.5	C		3					
						C					20	30	SPARE
SPARE	31		20			A							
						A					20	32	"
"	33		20			B							
						B					20	34	"
"	35		20			C							
						C					20	36	"
"	37					A							
						A				2	30	38	"
"	39		20			B							
						B						40	"
"	41					C							
						C					20	42	"

DISTRIBUTION PANELBOARD

LD. LABEL LDP1 PROJECT NO. 93052
120 / 208 V. 30 . 4 W.
MAINS: 400 AMPS. TYPE: ☐ MAIN LUGS ONLY
■ MAIN CIRCUIT BREAKER 300 AMPS.
☐ QUICK MAKE - BREAK SWITCH ____ AMPS.
☐ FUSED AT ____ AMPS.
EQUIPMENT 25,000 A.I.C. R.M.S. SYM. RATING
ENCLOSURE: ☐ NEMA 1 MOUNTING: ☐ TOP FED ☐ BOTTOM FED
☐ NEMA 3R ☐ FLUSH FEEDER: _____
☐ NEMA ____ ☐ SURFACE ____ RUN(S).

BRANCH BREAKER DESIG.	SIZE	POLE	EQUIPMENT OR LOAD SERVED	NOTES
LDP1-1	200	3	1LN1	33
-2	125	3	1LN2	12
-3	125	3	2LN1	23
-4	100	3	SPARE	
-5	60	3	"	
-6	40	3	"	
-7	30	3	"	

JOB NAME: AMES MAIN: 110 ☐ MNOR. ☐ FLUSH ■ NEMA 1 LOCATION:
JOB NO.: 93052 ☐ CR. BRKR. ☐ EQU. ■ SURF. ☐ NEMA 3R NOTES:
PANEL 1LN3 | AMP 110 | VOLT 120/208 | Ø 3 | W 4 | ☐ LUGS ☐ LF | ☐ DOUBLE ☐ NEMA
SECTION | A.I.C. R.M.S. SYM. RATING

CIR.	POLE	TRIP	LITE	EQUIP	HEAT	Ø	A/C	●	FUR.	POLE	TRIP	CIR.	DESCRIPTION
Receptacle	1		20			A		2					
					.4	A		2			20	2	TICKET Booth
"	3		20			B		2					
				3		B				2	20	4	SPECIAL
"	5		20			C		2					
						C						6	
"	7		20			A		2					
						A		2			20	8	Recept
"	9		20			B		3					
					1	B		3			20	10	"
LTG	11		20	1.1		C							
				1.0		C					20	12	OH. Bl. B3
UB. B2, B4	13		20		1.0	A							
					1.0	A		1			20	14	W.P. Pump
EF-B1	15		20		1.0	B							
					1.0	B					20	16	DHW-2
HW CP-1	17		20		1.0	C							
						C					20	18	SPARE
SPARE	19		20			A							
						A					20	20	"
"	21		20			B							
						B					20	22	"
"	23		20			C							
						C					20	24	"
"	25		20			A							
						A						26	
	27					B							
						B						28	
	29					C							
						C						30	
	31					A							
						A						32	
	33					B							
						B						34	
	35					C							
						C						36	
	37					A							
						A						38	
	39					B							
						B						40	
	41					C							
						C						42	

JOB NAME: AMES MAIN: 100 ☐ MNOR. ☐ FLUSH ■ NEMA 1 LOCATION:
JOB NO.: 93052 ☐ CR. BRKR. ☐ EQU. ■ SURF. ☐ NEMA 3R NOTES:
PANEL 1HN3 | AMP 100 | VOLT 277/480 | Ø 3 | W 4 | ☐ LUGS ☐ LF | ☐ DOUBLE ☐ NEMA
SECTION | A.I.C. R.M.S. SYM. RATING

CIR.	POLE	TRIP	LITE	EQUIP	HEAT	Ø	A/C	●	FUR.	POLE	TRIP	CIR.	DESCRIPTION
LTG	1		20	2.5		A							
				1.4		A					20	2	LTG
SPARE	3		20			B							
				1.6		B					20	4	"
"	5		20			C							
						C						6	
	7					A							
						A				3	20	8	SPARE
T-2	9	3	45		30	B							
						B						10	
	11					C							
						C						12	
	13					A							
						A						14	
	15					B							
						B						16	
	17					C							
						C						18	
	19					A							
						A						20	
	21					B							
						B						22	
	23					C							
						C						24	
	25					A							
						A						26	
	27					B							
						B						28	
	29					C							
						C						30	
	31					A							
						A						32	
	33					B							
						B						34	
	35					C							
						C						36	
	37					A							
						A						38	
	39					B							
						B						40	
	41					C							
						C						42	

JOB NAME: AMES MAIN: ☐ MNOR. ☐ FLUSH ■ NEMA 1 LOCATION:
JOB NO.: 93052 ☐ CR. BRKR. ☐ EQU. ■ SURF. ☐ NEMA 3R NOTES:
PANEL 1HN2 | AMP 200 | VOLT 277/480 | Ø 3 | W 4 | ☐ LUGS ☐ LF | ☐ DOUBLE ☐ NEMA
SECTION | A.I.C. R.M.S. SYM. RATING

CIR.	POLE	TRIP	LITE	EQUIP	HEAT	Ø	A/C	●	FUR.	POLE	TRIP	CIR.	DESCRIPTION
Lighting	1		20	1.8		A							
				3.3		A					20	2	LTG
"	3		20	3.1		B							
				2.1		B					20	4	"
"	5		20	2.9		C							
				3.1		C					20	6	"
" Bldg	7		20	3.8		A							
				2.2		A					20	8	"
" "	9		20	3.8		B							
				.9		B					20	10	" Sign
" "	11		20	3.1		C							
				1.0		C					20	12	TICKET
	13					A							
						A						14	
CUH-A7	15	3	20		5.6	B							
					15	B				3	35	16	CUH-A8
	17					C							
						C						18	
	19					A							
						A						20	
AHU-A1	21	3	30		10	B							
					20	B				3	45	22	UH-A9
	23					C							
						C						24	
	25					A							
						A						26	
EF-A1	27	3	20		9.5	B							
					9.5	B				3	20	28	EF-A2
	29					C							
						C						30	
T-1	31		20	2		A							
					20	A					20	32	LTG. SW
UH-A3	33		20	2		B							
						B					20	34	SPARE
SPARE	35		20			C							
					21	C					20	36	SPARE
	37					A							
						A						38	"
"	39	3	20			B							
						B				3	30	40	"
	41					C							
						C						42	"

PROJECT NO.: 93052

MOTOR STARTER SCHEDULE

MS NO.	EQUIPMENT OR DEVICE CONTROLLED	ROOM NO.	MAG. COMB.	FUSIBLE	CIR. BRKR.	SPEED	H.P.	POLES	VOLTS LINE	VOLTS COIL	NEMA SIZE	NEMA ENCL.	AUX. CONT. N.O.	AUX. CONT. N.C.	SELECTOR SWITCH	PILOT LT.	C.P.T.	P.B. CTRL.	NOTES
MS-1	EF-B1			X	X	1	3/4	1	120	120	0	1	1	1	H-O-A	X			
-2	AHU-A1			X	X	1	10	3	480	120	1	1	2	2	H-O-A	X			
-3	EF-A1			X	X	1	5	3	"	"	1	1	2	2	"		X		
-4	EF-A2			X	X	1	5	3	"	"	1	1	2	2	"		X		
-5	EF-A3			X	X	1	1/4	1	120	"	0	1	1	1	"		X		

DISTRIBUTION PANELBOARD

LD. LABEL HDP1 PROJECT NO. 93052
277 / 480 V. 30 . 4 W.
MAINS: 800 AMPS. TYPE: ☐ MAIN LUGS ONLY
■ MAIN CIRCUIT BREAKER 700 AMPS.
☐ QUICK MAKE - BREAK SWITCH ____ AMPS.
☐ FUSED AT ____ AMPS.
EQUIPMENT 100,000 A.I.C. R.M.S. SYM. RATING
ENCLOSURE: ■ NEMA 1 MOUNTING: ☐ TOP FED ■ BOTTOM FED
☐ NEMA 3R ☐ FLUSH FEEDER: _____
☐ NEMA ____ ■ SURFACE ____ RUN(S).

BRANCH BREAKER DESIG.	SIZE	POLE	EQUIPMENT OR LOAD SERVED	NOTES
HDP1-1	90	3	ELEVATOR	25HP
-2	200	3	1HN1	99
-3	200	3	1HN2	99
-4	175	3	T-1	112.5
-5	100	3	1HN3	36
-6	200	3	SPARE	
-7	100	3	"	
-8	60	3	"	

WILLIAM L. MONTGOMERY REGISTERED #16114 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED

THE ODLE McGUIRE & SHOOK CORPORATION
ARCHITECTURE · ENGINEERING · LANDSCAPE ARCHITECTURE · INTERIOR DESIGN
8425 N.W. 38th STREET, SUITE 100 BETHANY LAKES OFFICE PARK
P.O. BOX 6010 BETHANY, OKLAHOMA 73008 (405) 789-8100 FAX (405) 789-8118

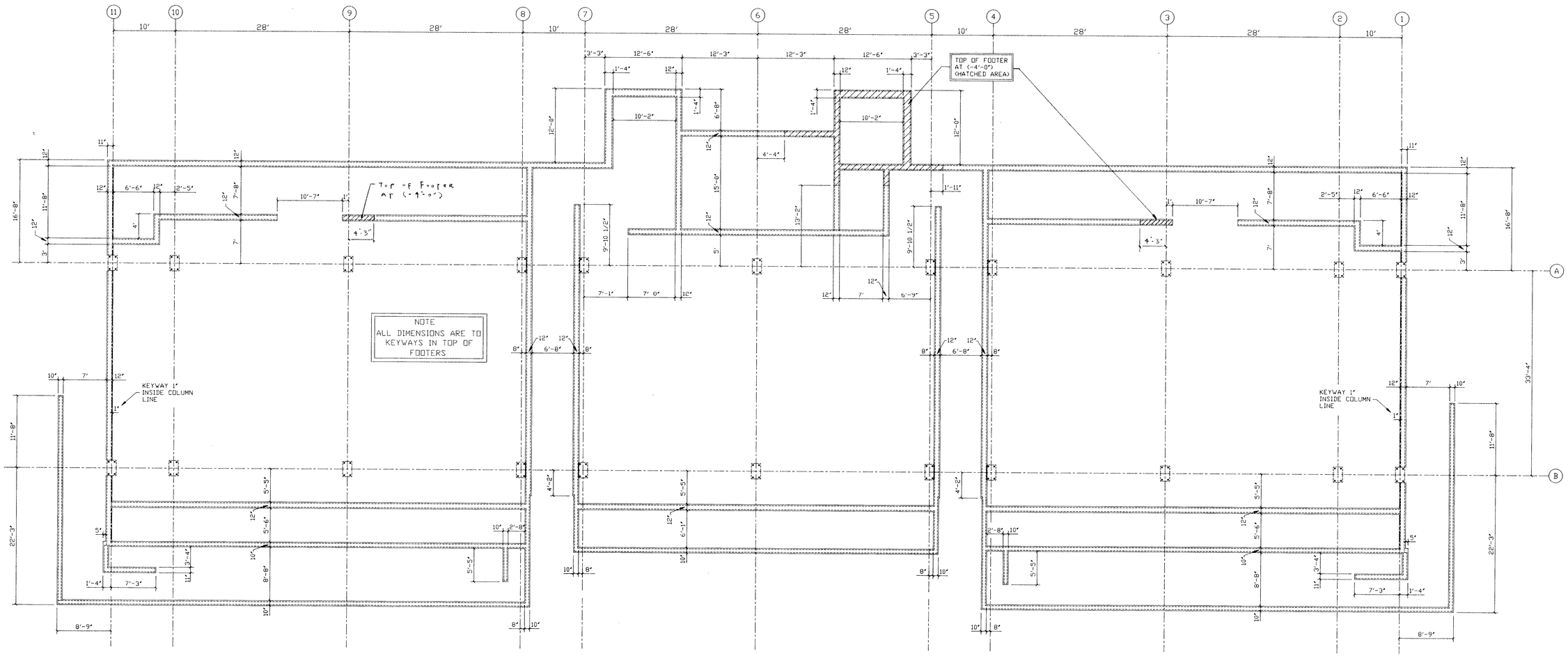
REVISIONS

MICHIGAN CITY SPORTS COMPLEX
AMES FIELD
MICHIGAN CITY, INDIANA

PROJECT NO. 33052
DATE: MAY 31, 1994
drawn by: JJC
checked by: RSB

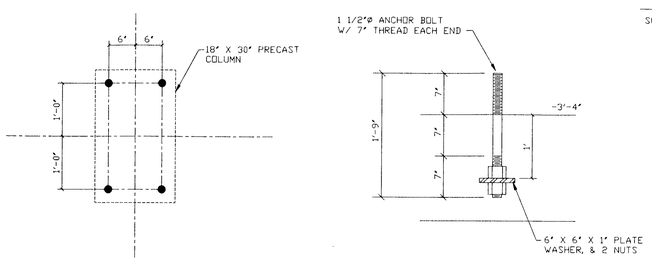
E304

PANEL SCHEDULES

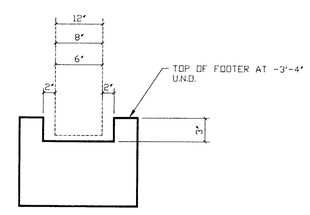


PLAN OF KEYWAYS AND ANCHOR BOLTS

SCALE 1/8" = 1'-0"



ANCHOR BOLT DETAILS



KEYWAY DETAILS

D:\AMES-1A
PLOT 1/8

PROJECT FOR
AMERICAN PRECAST CONCRETE
PREPARED BY
PRECAST CONCRETE SYSTEMS INC.
SUBSIDIARY OF AMERICAN PRECAST CONCRETE
1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS

NO.	DATE	DESCRIPTION

REVISIONS

NO.	DATE	BY

REVISIONS

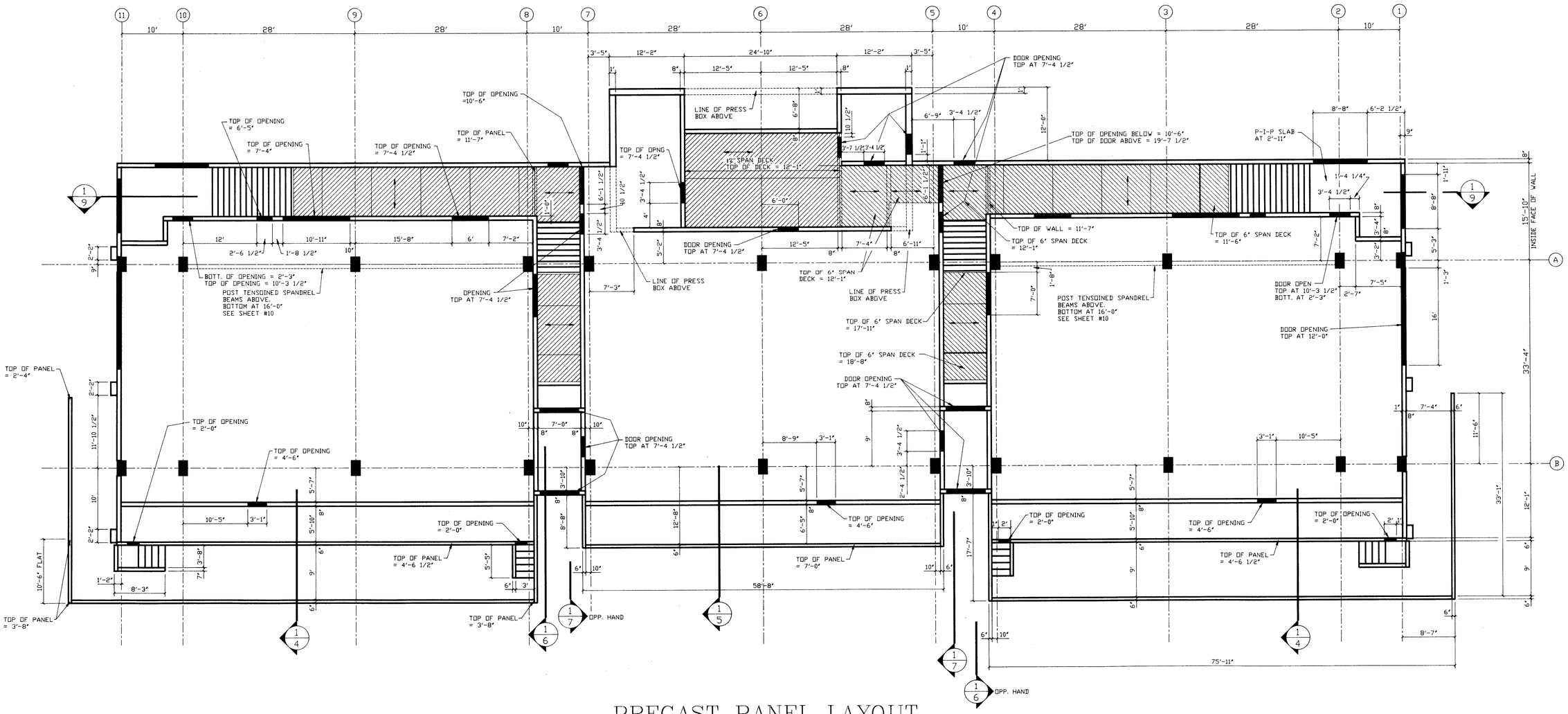
NO.	DATE	BY
1	5/23/94	RM
2	8/12/94	RM

ARCHITECT: DALE MCGUIRE & ASSOC. CORPORATION
CONTRACTOR: CONSTRUCTION CONTROL
DRAWN BY: RM
CHKD BY: JWR
DATE: 7/14/94

AMES FIELD
MICHIGAN CITY, IND.

JOB NO. 1195

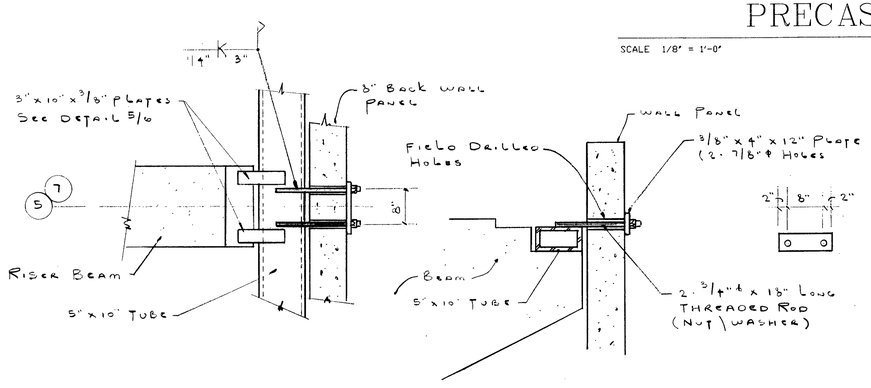
SHEET 1 OF SHEETS



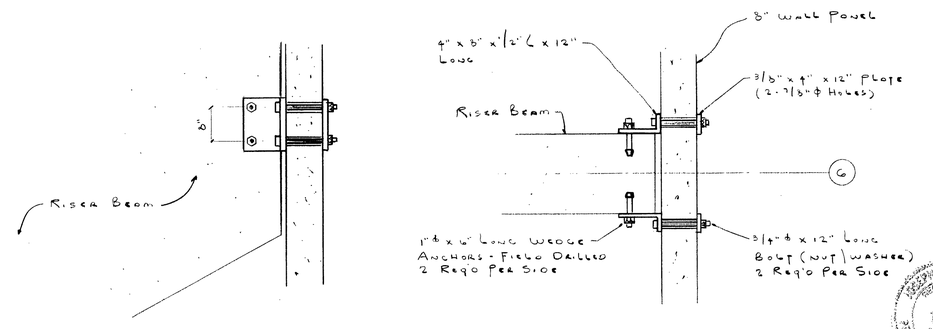
PRECAST PANEL LAYOUT

SCALE 1/8" = 1'-0"

NORTH



DETAIL 1/2



DETAIL 2/2

D:\AMES-2
PLOT 1/8

PROJECT FOR
AMERICAN PRECAST CONCRETE
PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
SUBSIDIARY OF AMERICAN PRECAST CONCRETE
1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS		
NO	DATE	DESCRIPTION

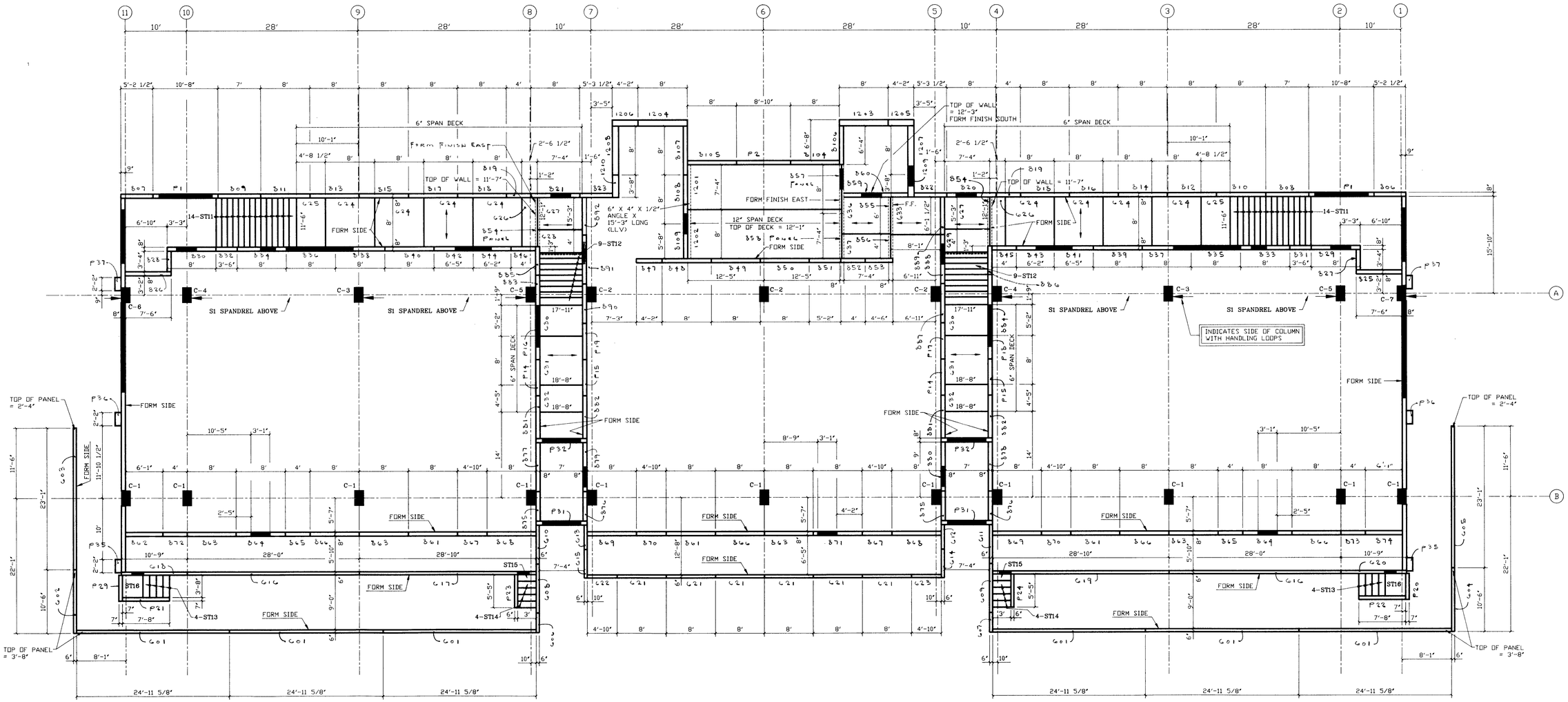
REVISIONS			REVISIONS		
NO	DATE	BY	NO	DATE	BY
1	8/23/94	RM			
2	9/20/94	RM			

ARCHITECT: THE ODLE MCGUIRE & SHOOK CORPORATION
CONTRACTOR: CONSTRUCTION CONTROL
DATE: 11/18/94
DRAWN BY: RSM
CHKD BY: JVR

AMES FIELD
MICHIGAN CITY, IND.

JOB NO. 1195
SHEET 2 OF SHEETS

JOSEPH W. REYNOLDS REGISTERED No. 13177 STATE OF INDIANA PROFESSIONAL ENGINEER



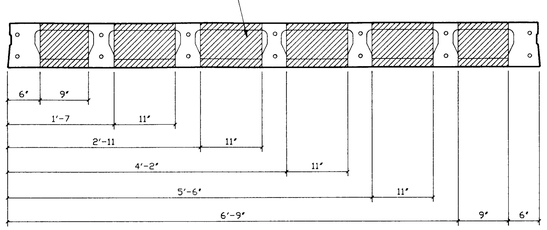
PRECAST PANEL LAYOUT

SCALE 1/8" = 1'-0"

NORTH

NO WEBS OR REINFORCING SHALL BE CUT IN FIELD WITHOUT APPROVAL OF BOTH ARCHITECT AND PRECASTER

ALL FIELD DRILLED HOLES MUST GO THRU HATCHED AREAS AS SHOWN BELOW. ALL DIMENSION ARE FROM FORMED SIDE OF PANEL.



TYPICAL SPAN DECK SECTION

D:\AMES-9
PLOT 1/8

PROJECT FOR
AMERICAN PRECAST CONCRETE
PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
SUBSIDIARY OF AMERICAN PRECAST CONCRETE
1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS		
NO.	DATE	DESCRIPTION

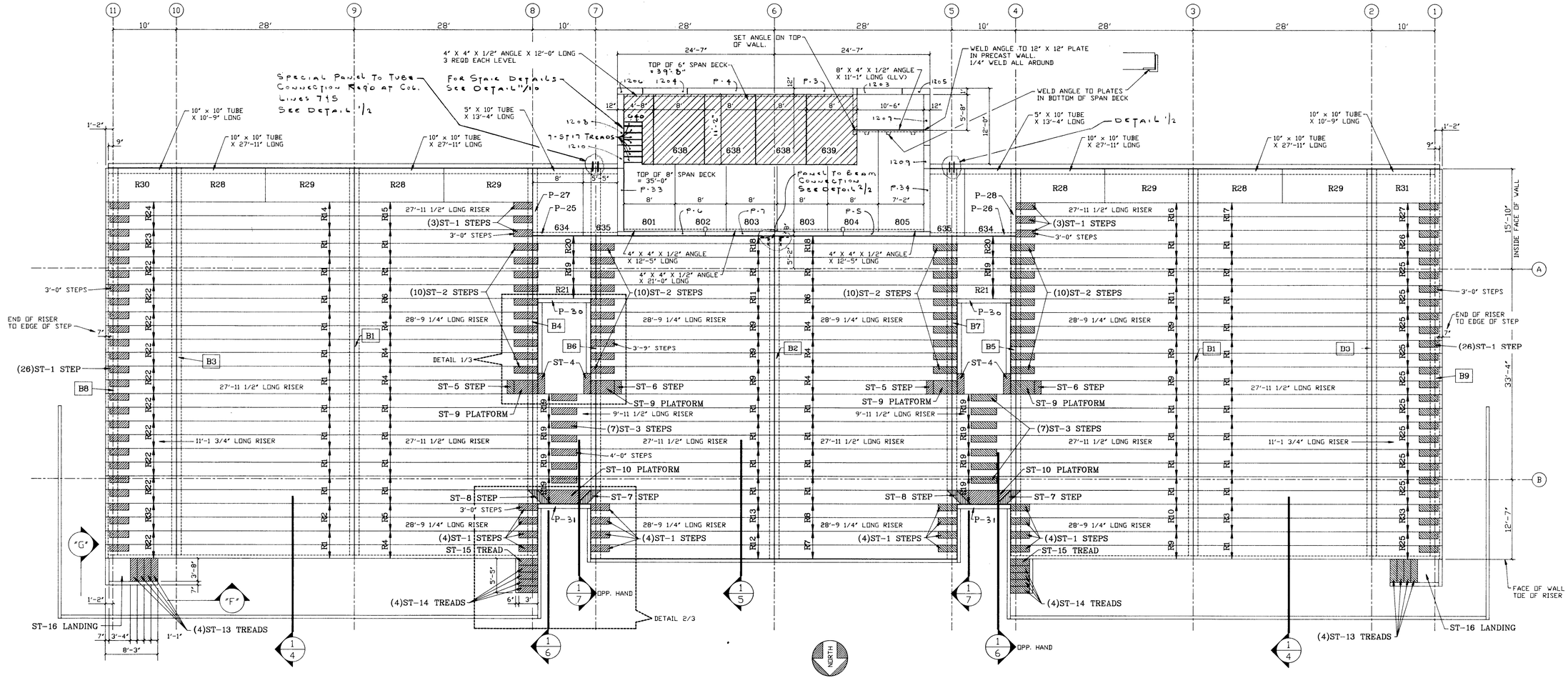
REVISIONS				
NO.	DATE	BY	NO.	DATE	BY
1	6/23/94	RM			
2	9/30/94	RM			

ARCHITECT: THE ODLE MCGUIRE & SHOOK CORPORATION
CONTRACTOR: CONSTRUCTION CONTROL
DRAWN BY: RM
CHKD. BY: JWR
DATE: 7/14/94

AMES FIELD
MICHIGAN CITY, IND.

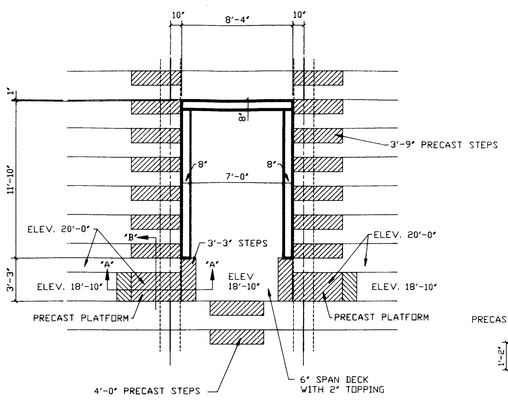
JOB NO. 1195

SHEET 2A OF SHEETS

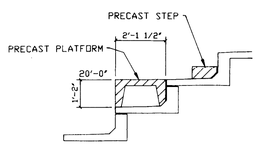


PRECAST PLAN

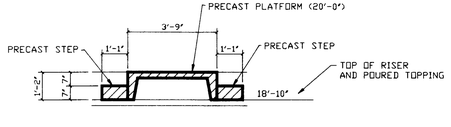
SCALE 1/8" = 1'-0"



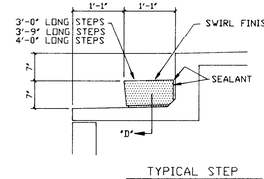
DETAIL 1/3



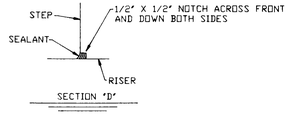
SECTION "B"



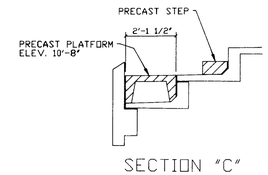
SECTION "A - A"



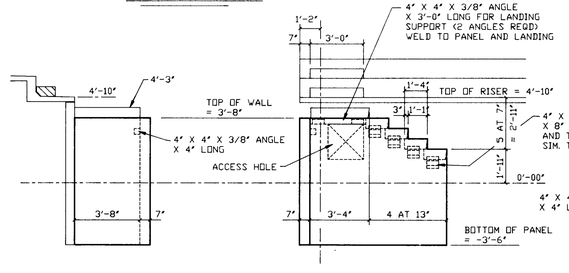
TYPICAL STEP



SECTION "D"

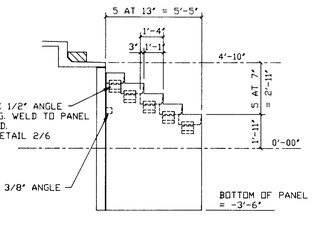


SECTION "C"

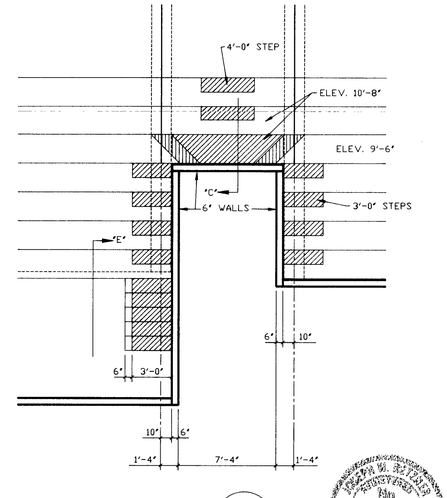


SECTION "G"

SECTION "F"



SECTION "E"



DETAIL 2/3

D:\AMES-1
PLOT 1/8

PROJECT FOR
AMERICAN PRECAST CONCRETE
PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS		
NO.	DATE	DESCRIPTION

REVISIONS			
NO.	DATE	BY	

REVISIONS			
NO.	DATE	BY	
1	8/31/94	RM	
2	9/20/94	RM	

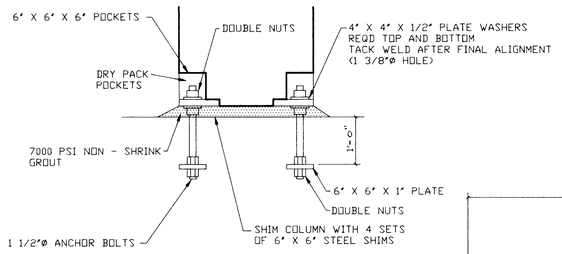
ARCHITECT: THE DALE MCGUIRE & SHOOK CORPORATION
CONTRACTOR: CONSTRUCTION CONTROL
DATE: 7/14/94
DRAWN BY: RM
CHKD BY: JWR

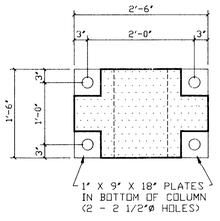
AMES FIELD
MICHIGAN CITY, IND.

JOB NO. 1195

SHEET 3 OF SHEETS

JAMES W. WALTERS REGISTERED No. 16677 STATE OF INDIANA PROFESSIONAL ENGINEER

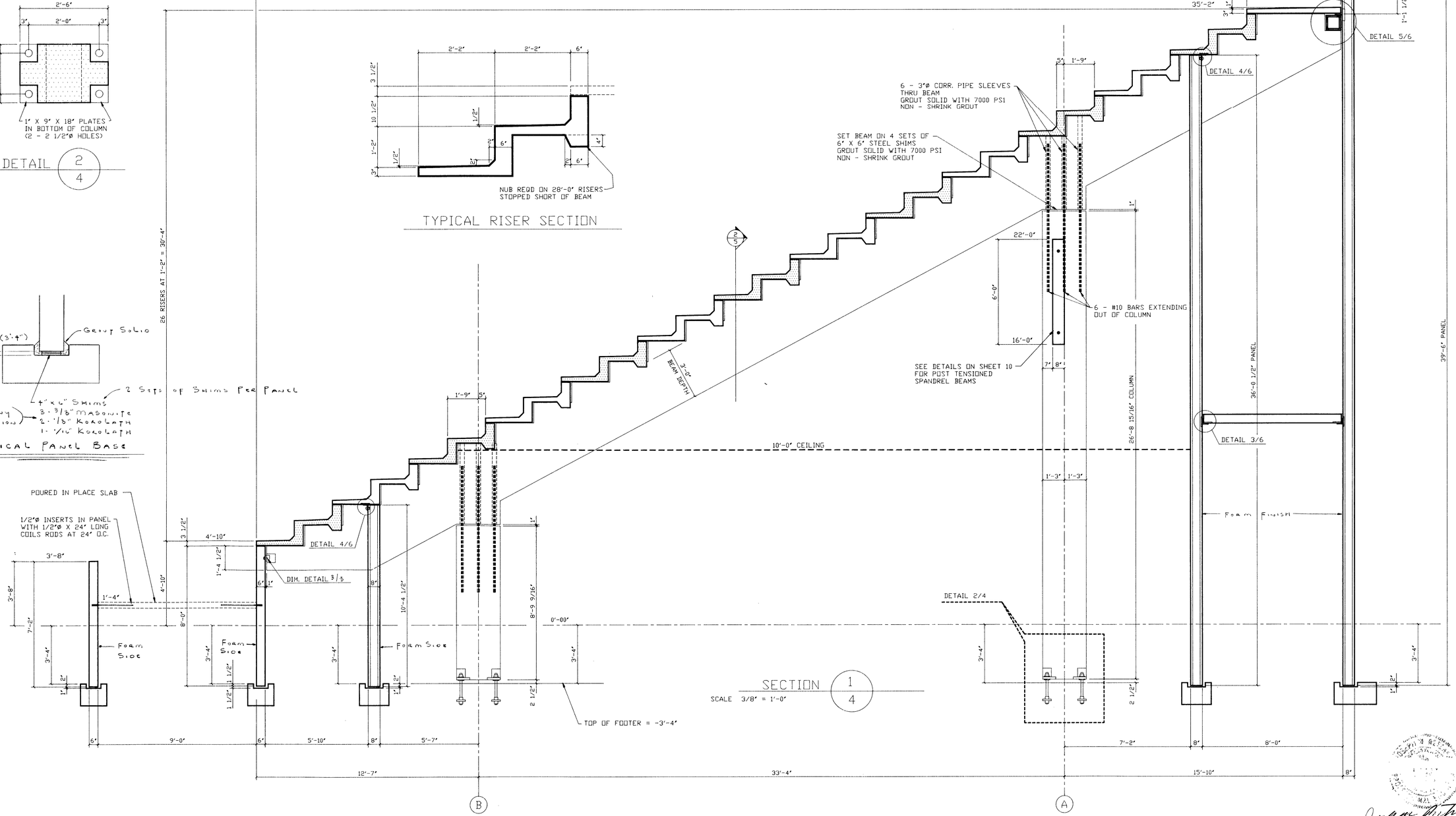




DETAIL 2/4

TYPICAL RISER SECTION

TYPICAL PANEL BASE



SECTION 1/4

SCALE 3/8" = 1'-0"

D:\AMES-3
PLOT 3/8"

PROJECT FOR
AMERICAN PRECAST CONCRETE
PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
CONSULTING ENGINEERS
1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS		
NO	DATE	DESCRIPTION

REVISIONS			REVISIONS		
NO	DATE	BY	NO	DATE	BY
1	8/23/94	R.M.			
2	9/12/94	R.M.			

ARCHITECT: ODLE MCGUIRE & SHOOK CORPORATION

CONTRACTOR: CONSTRUCTION CONTROL

DATE: 7/14/94

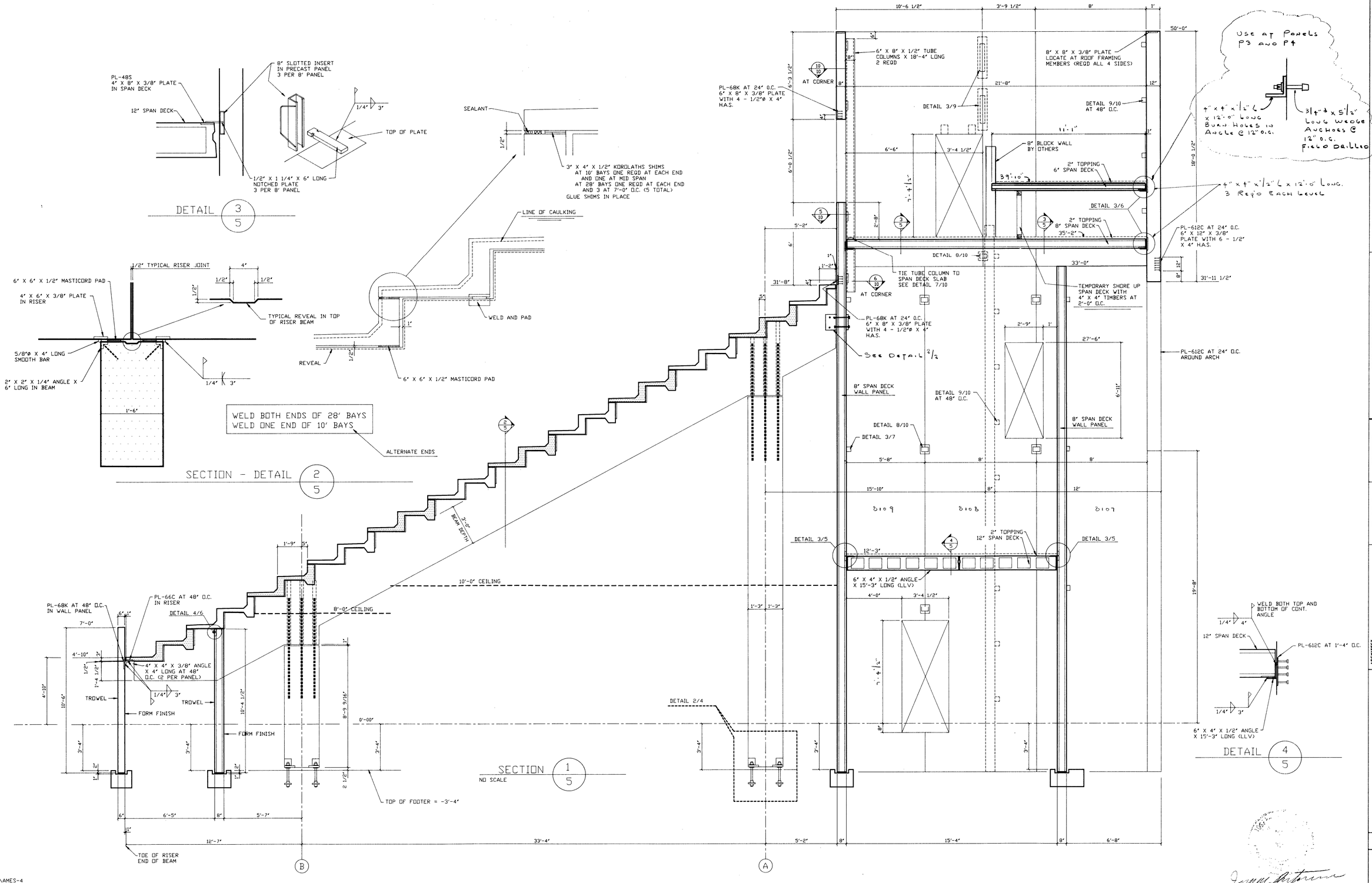
DRAWN BY: RM

CHKD BY: JWR

AMES FIELD
MICHIGAN CITY, IND.

JOB NO. 1195

SHEET 4 OF SHEETS



PROJECT FOR
AMERICAN PRECAST CONCRETE

PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
CASWELL CONCRETE SYSTEMS

1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS

NO.	DATE	DESCRIPTION

REVISIONS

NO.	DATE	BY
1	8/23/94	RM
2	9/20/94	RM

ARCHITECT: THE ODLE MCGUIRE & SHOOK CORPORATION

CONTRACTOR: CONSTRUCTION CONTROL

DRAWN BY: RM

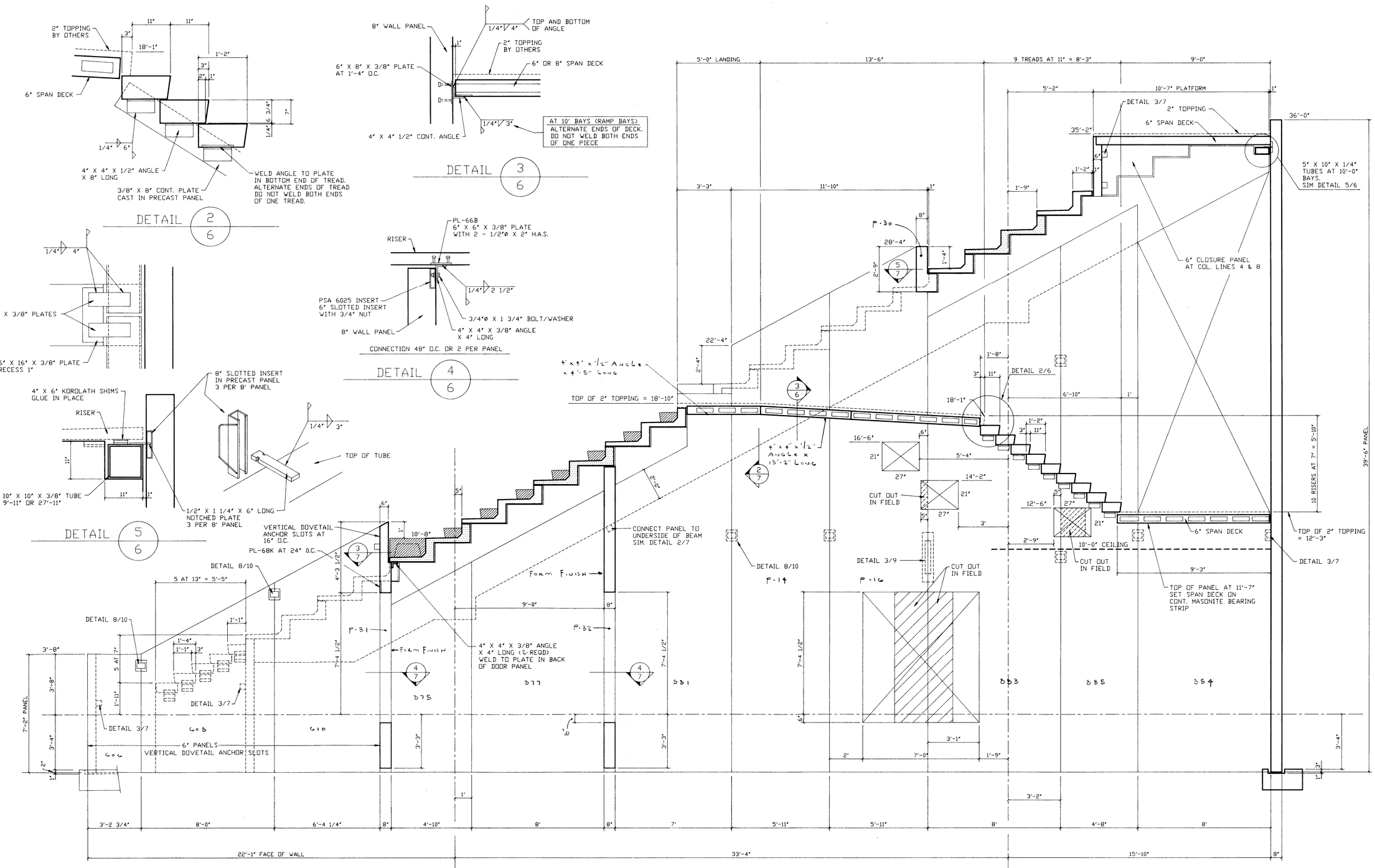
CHKD. BY: JWR

DATE: 7/14/94

AMES FIELD.
MICHIGAN CITY, IND.

JOB NO. 1195

SHEET 5 OF SHEETS



SECTION 1/6

SCALE 3/8" = 1'-0"

D:\AMES-6
PLOT 3/8"

PROJECT FOR
AMERICAN PRECAST CONCRETE
PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS		
NO	DATE	DESCRIPTION

REVISIONS			
NO	DATE	BY	NO
1	5/23/94	EM	
2	9/22/94	EM	

ARCHITECT: THE ODLE MCGUIRE & SHOOK CORPORATION

CONTRACTOR: CONSTRUCTION CONTROL

DATE: 7/18/94

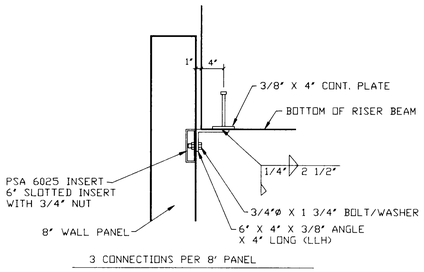
DRAWN BY: RM

CHKD BY: JWR

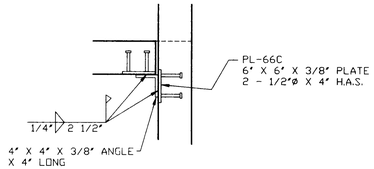
AMES FIELD
MICHIGAN CITY, IND.

JOB NO. 1195

SHEET 6 OF SHEETS



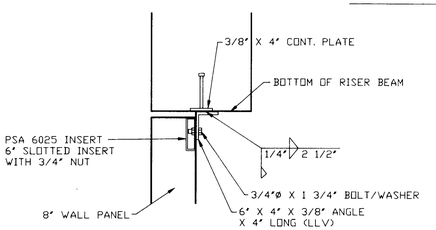
DETAIL 2/7



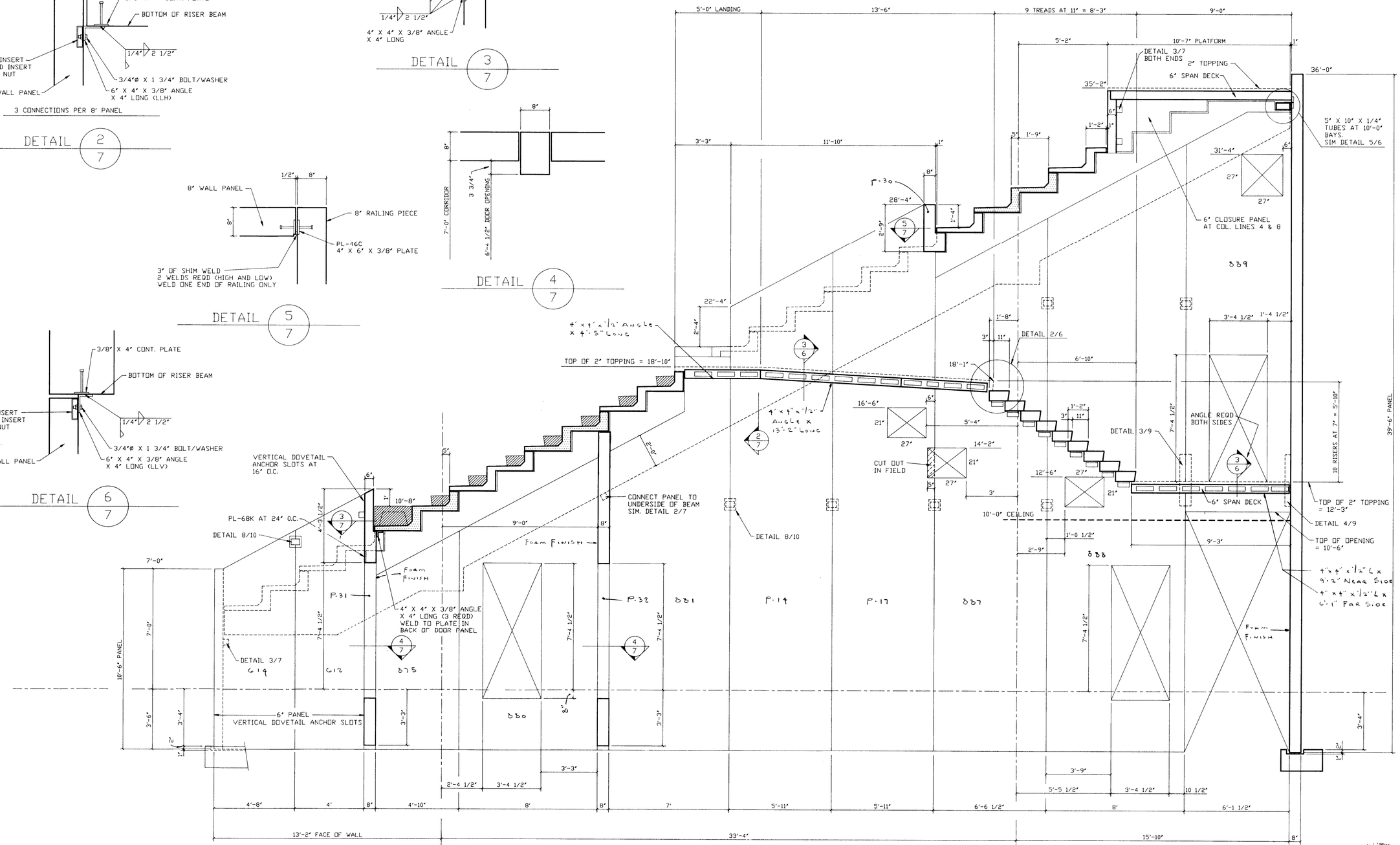
DETAIL 3/7

DETAIL 4/7

DETAIL 5/7



DETAIL 6/7



SECTION 1/7

SCALE 3/8" = 1'-0"

D\AMES-5
PLOT 3/8"

PROJECT FOR
AMERICAN PRECAST CONCRETE

PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
COMPANY OF AMERICAN PRECAST CONCRETE

1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS		
NO.	DATE	DESCRIPTION

REVISIONS					
NO.	DATE	BY	NO.	DATE	BY
1	8/23/94	R.M.			
2	9/12/94	R.M.			

ARCHITECT: DILE MCGUIRE & SHOOK CORPORATION

CONTRACTOR: CONSTRUCTION CONTROL

DATE: 7/14/94

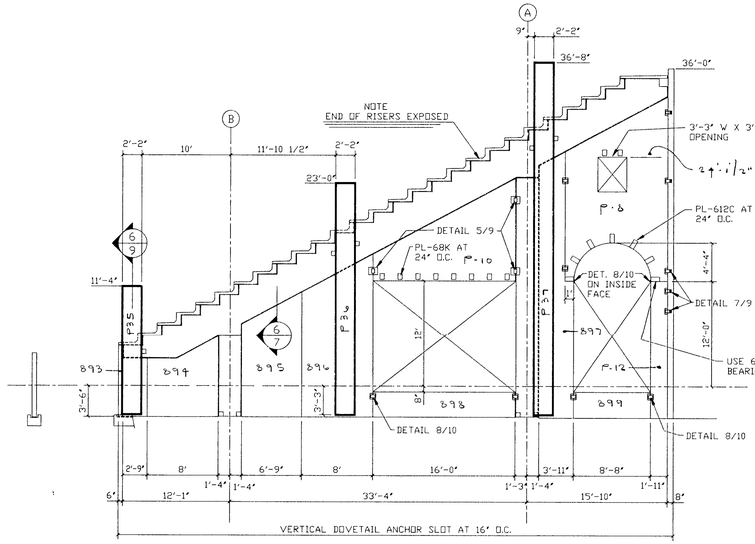
DRAWN BY: RM

CHKD BY: JWR

AMES FIELD
MICHIGAN CITY, IND.

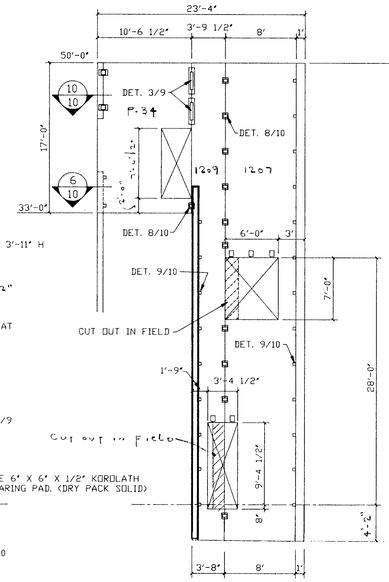
JOB NO. 1195

SHEET 7 OF SHEETS

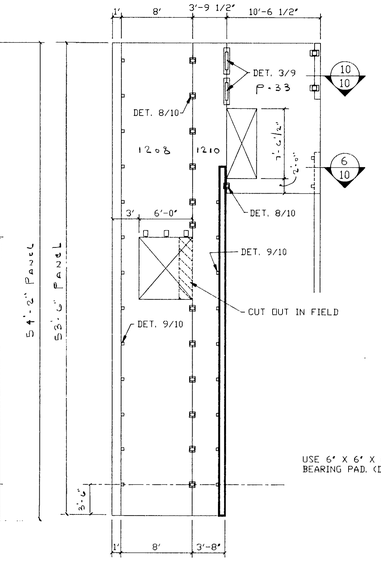


ELEVATION WEST END OF STADIUM

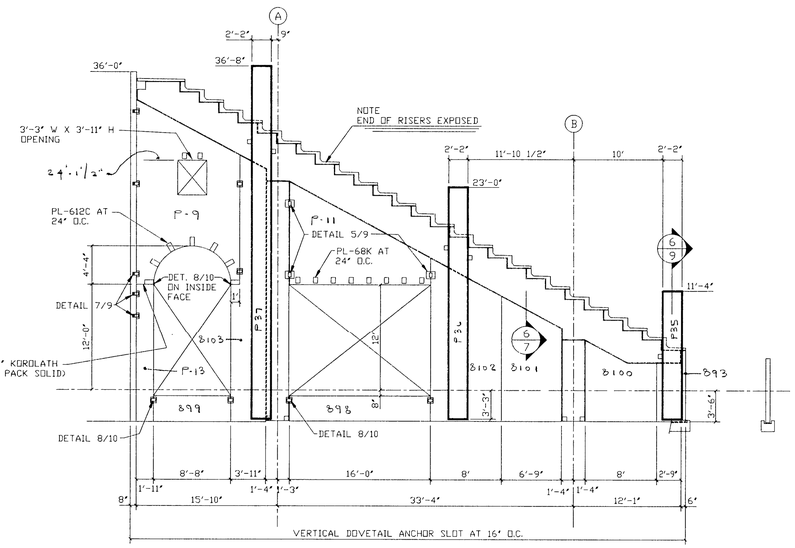
SCALE 1/8" = 1'-0"



ELEVATION "A"

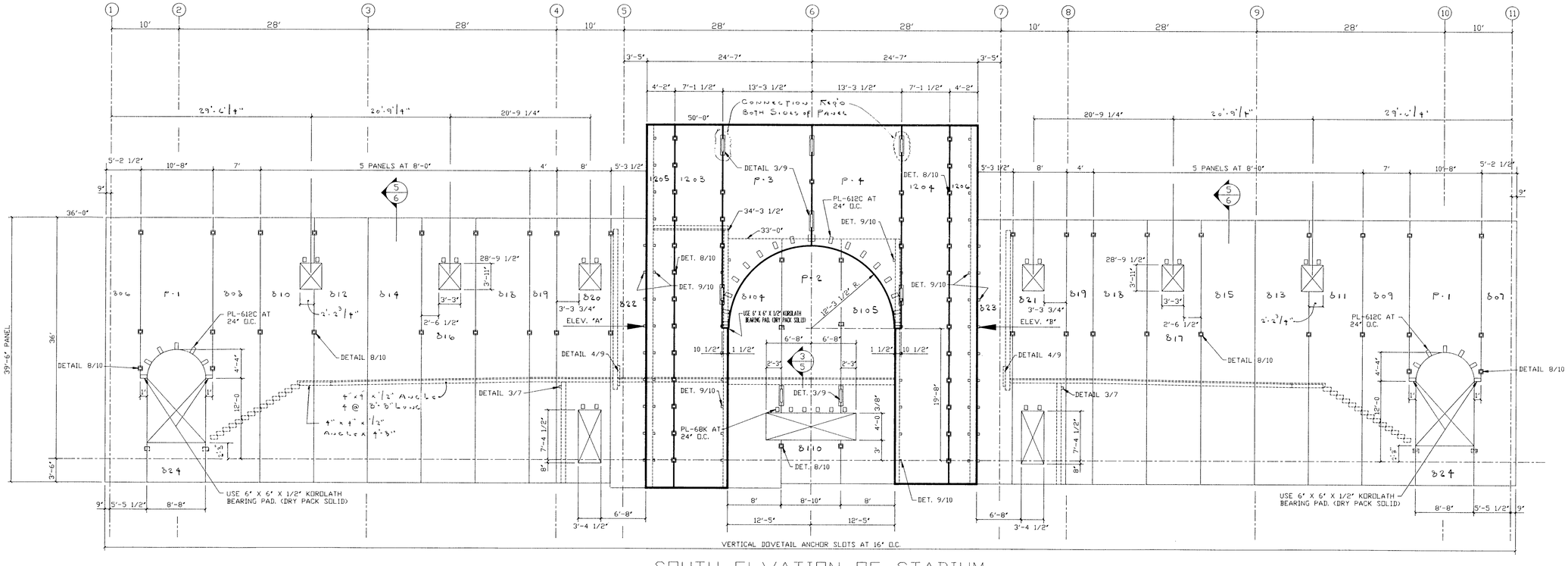


ELEVATION "B"



ELEVATION EAST END OF STADIUM

SCALE 1/8" = 1'-0"



SOUTH ELVATION OF STADIUM

SCALE 1/8" = 1'-0"

D:\AMES-7
PLOT 1/8

PROJECT FOR
AMERICAN PRECAST CONCRETE
PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
SUBSIDIARY OF AMERICAN PRECAST CONCRETE, INC.
1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS

NO.	DATE	DESCRIPTION

REVISIONS

NO.	DATE	BY

REVISIONS

NO.	DATE	BY
1	8/23/94	KM
2	9/28/94	KM

ARCHITECT
THE DDLE MCGUIRE & SHOOK CORPORATION

CONTRACTOR
CONSTRUCTION CONTROL

DATE 7/14/94

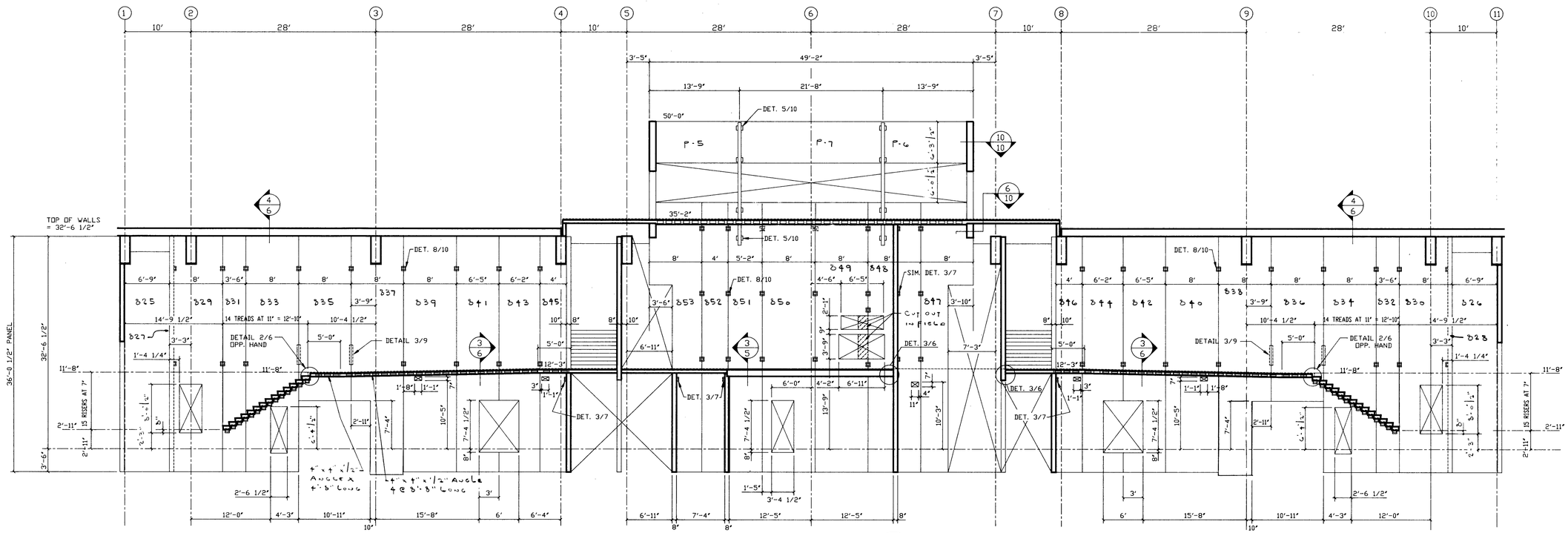
DRAWN BY RM

CHKD BY JWR

AMES FIELD
MICHIGAN CITY, IND.

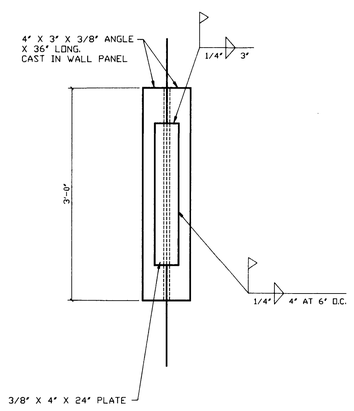
JOB NO. 1195

SHEET 8 OF SHEETS

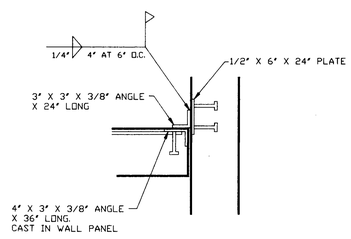


SECTION 1/9

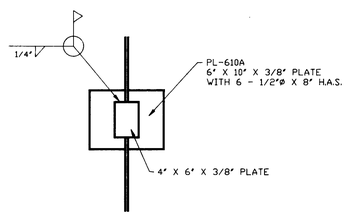
SCALE 1/8" = 1'-0"



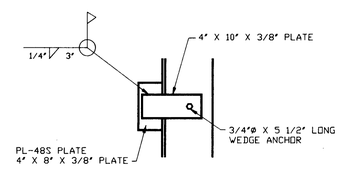
DETAIL 3/9



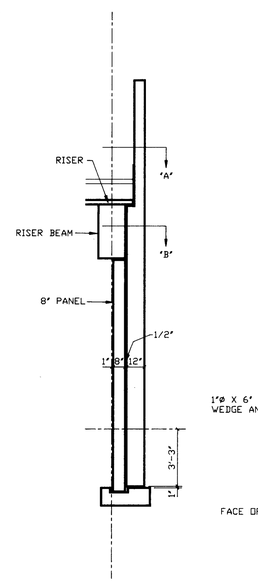
DETAIL 4/9



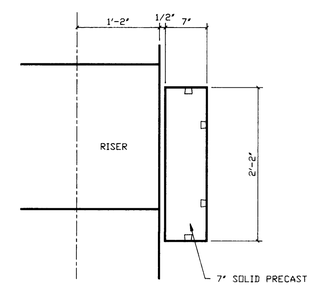
DETAIL 5/9



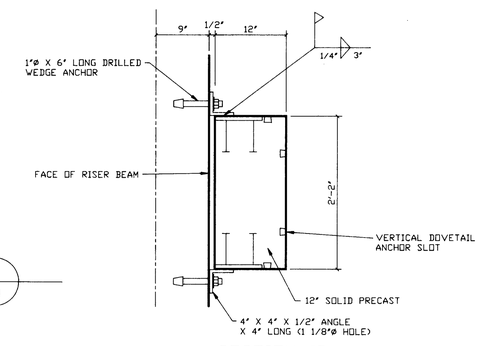
DETAIL 7/9



DETAIL 7/9



SECTION "A"



SECTION "B"

D:\AMES-8
PLOT 1/8

PROJECT FOR
AMERICAN PRECAST CONCRETE

PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
SUBSIDIARY OF AMERICAN PRECAST CONCRETE

1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS		
NO.	DATE	DESCRIPTION

REVISIONS					
NO.	DATE	BY	NO.	DATE	
1	8/23/94	R.M.			
2	9/30/94	R.M.			

ARCHITECT: THE DALE McGUIRE & SHOOK CORPORATION

CONTRACTOR: CONSTRUCTION CONTROL

DATE: 7/14/94

DRAWN BY: RM

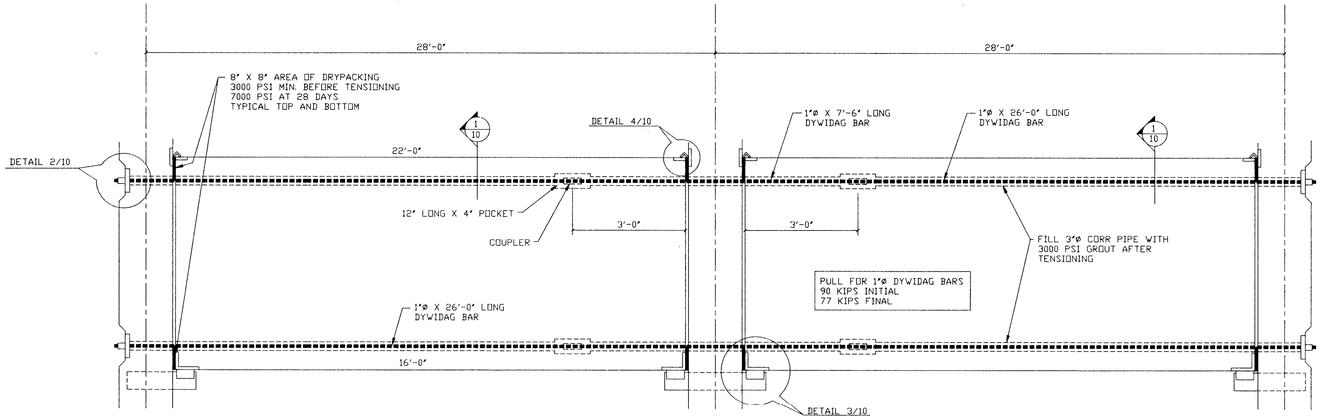
CHKD BY: JWR

AMES FIELD
MICHIGAN CITY, IND.

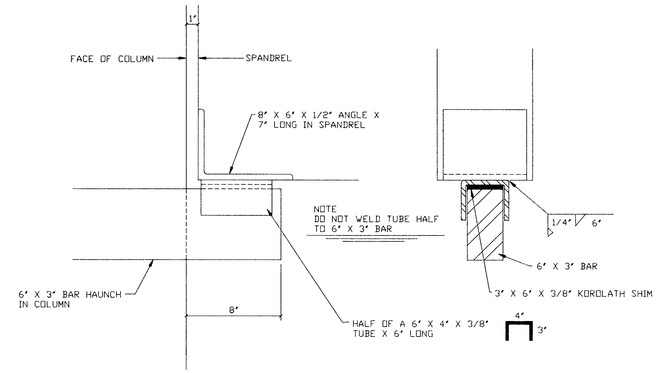
JOB NO. 1195

SHEET 9 OF SHEETS

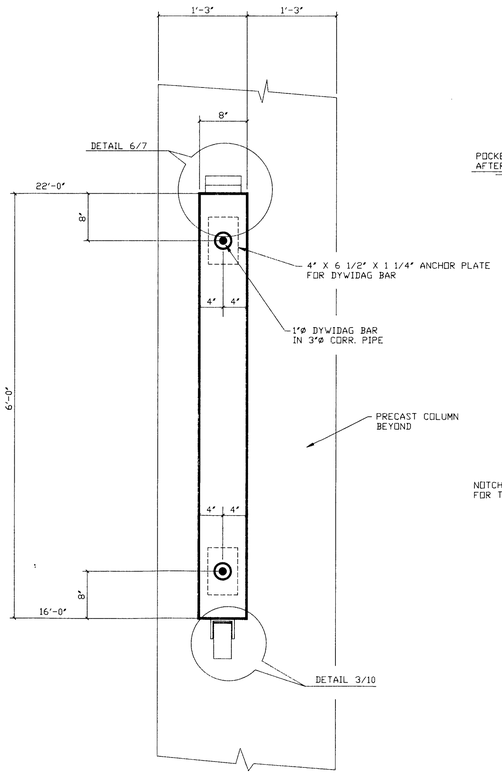
REGISTERED PROFESSIONAL ENGINEER No. 18677 STATE OF INDIANA



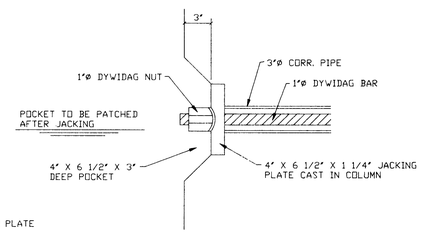
ELEVATION OF SPANDRELS ALONG COLUMN LINE "A"



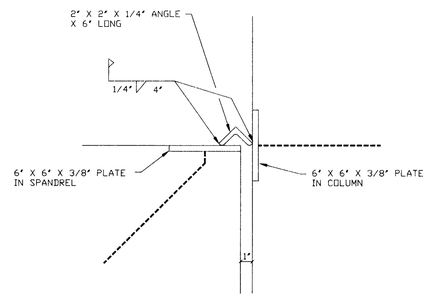
DETAIL 3/10



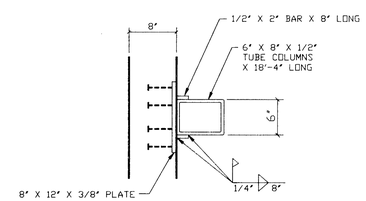
SECTION 1/10



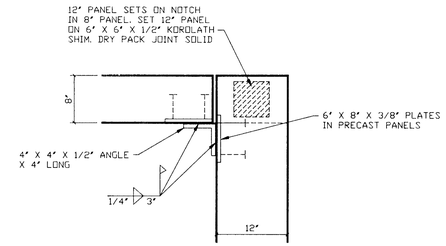
DETAIL 2/10



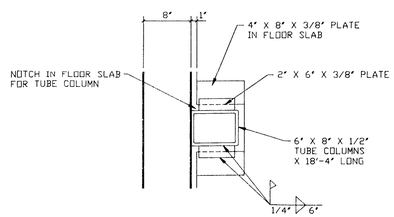
DETAIL 4/10



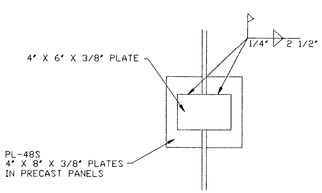
SECTION 5/10



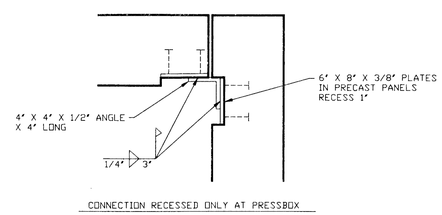
SECTION 6/10



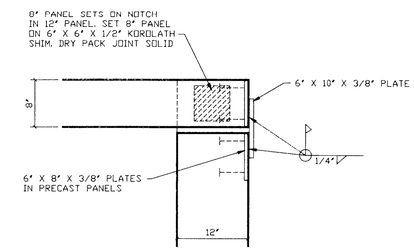
SECTION 7/10



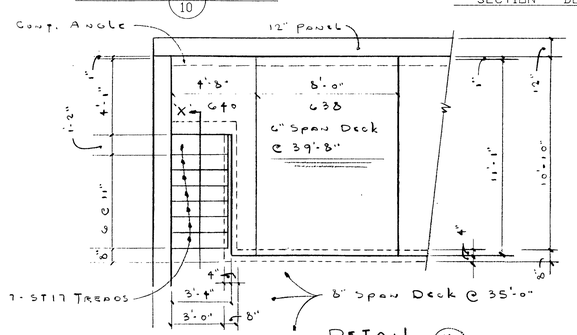
SECTION - DETAIL 8/10



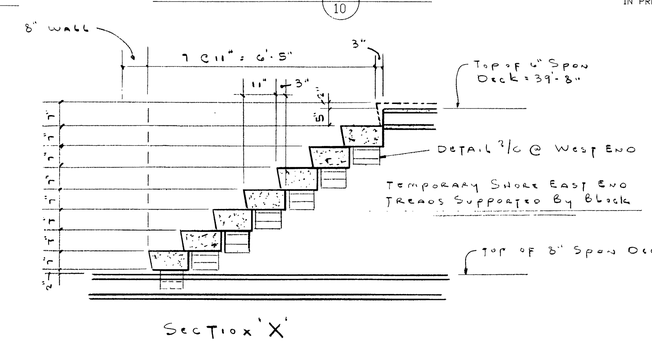
SECTION - DETAIL 9/10



SECTION 10/10



DETAIL 11/10



Section 'X'

D:\AMES-10
PLOT 1"

PROJECT FOR
AMERICAN PRECAST CONCRETE
PREPARED BY
PRECAST CONCRETE SYSTEMS, INC.
A SUBSIDIARY OF AMERICAN PRECAST CONCRETE
1030 S. KITLEY AVE.
INDIANAPOLIS, INDIANA 46203

American Precast Concrete

PRODUCTION REVISIONS		
NO.	DATE	DESCRIPTION

REVISIONS						
NO.	DATE	BY	NO.	DATE	BY	

ARCHITECT: THE ODLE MCGUIRE & SHOOK CORPORATION
CONTRACTOR: CONSTRUCTION CONTROL
DRAWN BY: TCM
CHKD BY: SWR
DATE: 7/1/94

AMES FIELD
MICHIGAN CITY, IND.

JOB NO. 1195
SHEET 10 OF SHEETS