WKE

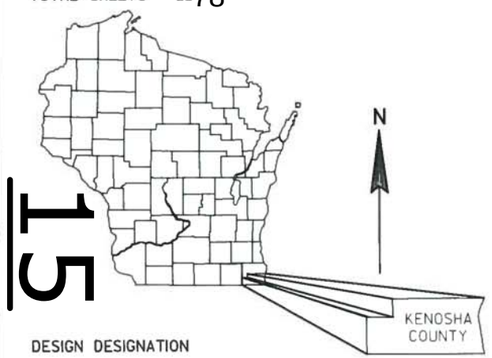
JULY 2013

PROJECT ID: 1030-31-72

COUNTY: KENOSHA

ORDER OF SHEETS

TOTAL SHEETS = --78



15

DESIGN DESIGNATION

A.A.D.T.	2014	= N/A
A.A.D.T.	2034	= N/A
D.H.V.	2034	= N/A
D.D.		= N/A
T.		= N/A
DESIGN SPEED		= N/A
ESALS		= N/A

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT	L	SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
MARSH AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		POWER POLE	
		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

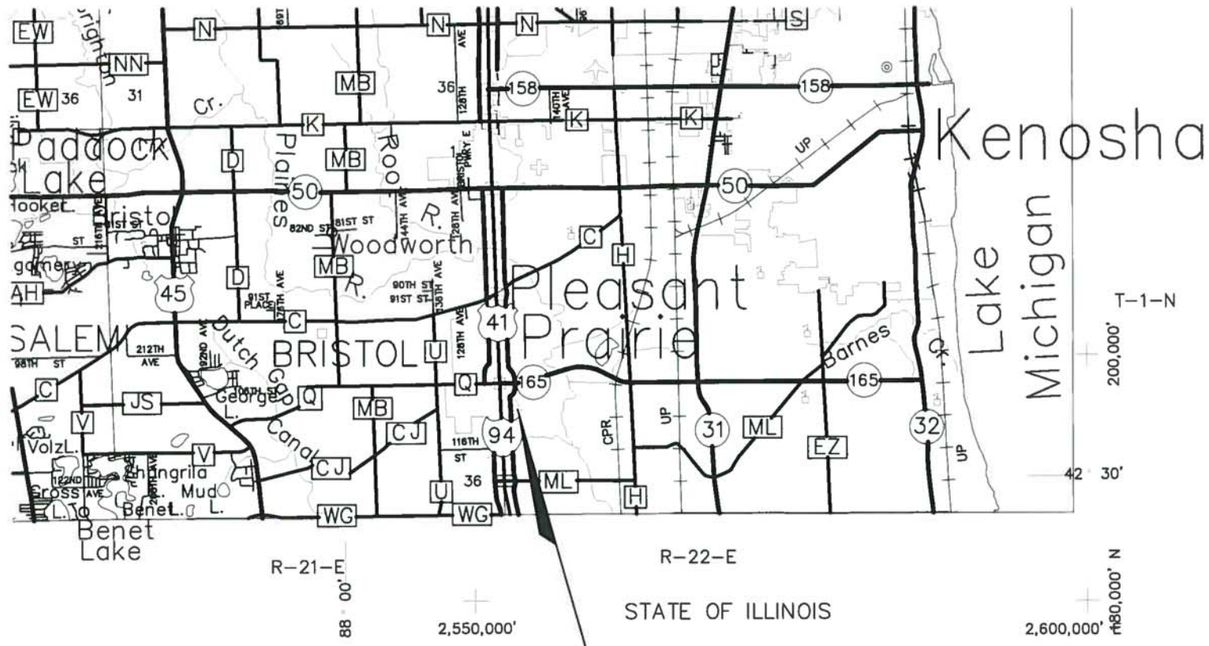
NS FREEWAY, REST AREA 26

SAFETY REST AREA IMPROVEMENTS

NON HIGHWAY
KENOSHA COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1030-31-72	----------	---

STATE PROJECT NUMBER
1030-31-72



PROJECT LOCATION 1030-31-72
X = 594,935
Y = 103,265

LAYOUT
SCALE 0 1 Mi.

TOTAL NET LENGTH OF CENTERLINE = N/A MI.

"COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), 'KENOSHA' COUNTY."

ORIGINAL PLANS PREPARED BY

Mead & Hunt
Mead & Hunt, Inc.
6501 Watts Road
Madison, WI 53719
608.273.6380
fax: 608.273.6391
www.meadhunt.com

WISCONSIN
KEVIN SCOTT KUNDE
E-23381
MADISON
WI
PROFESSIONAL ENGINEER

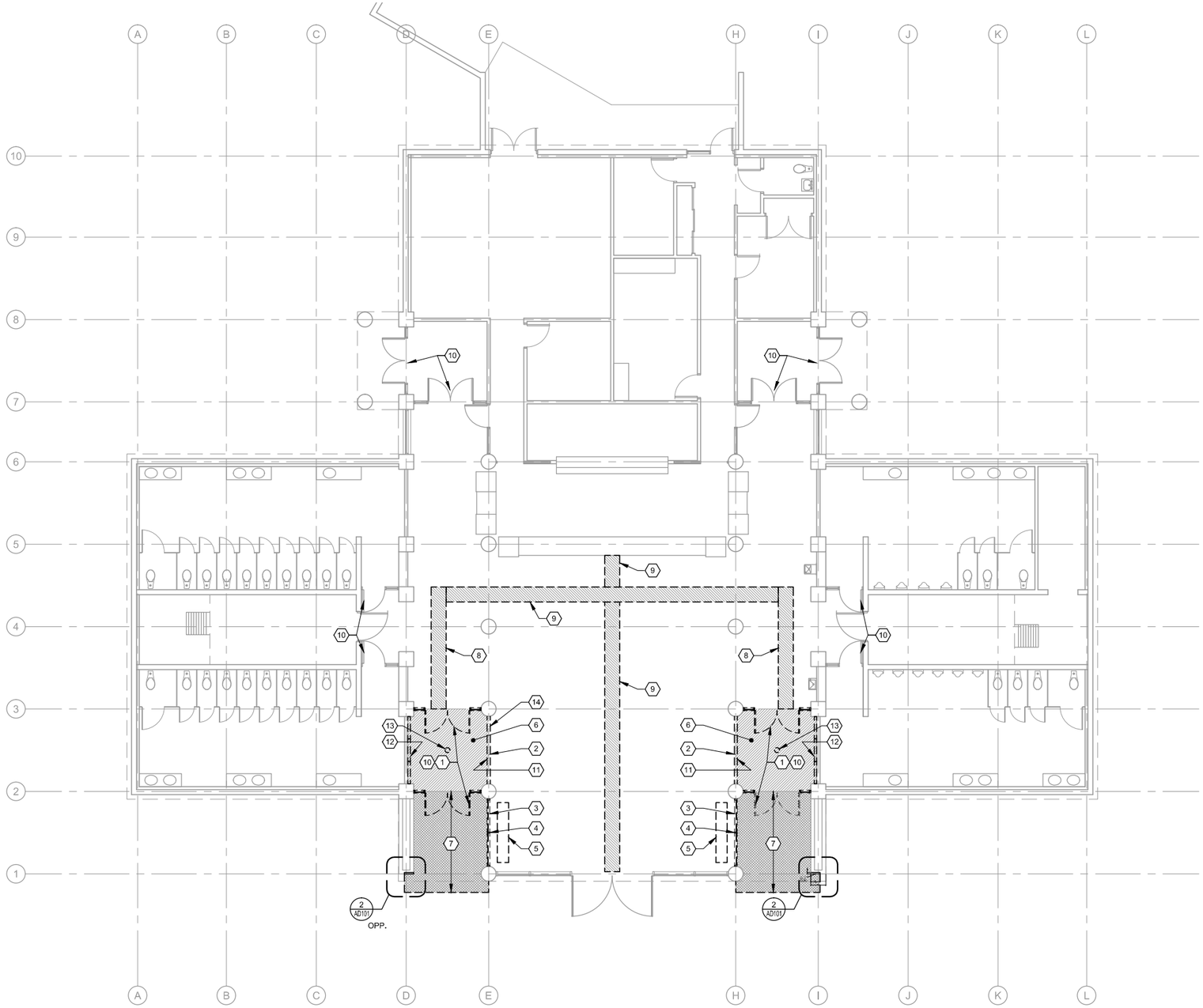
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MEAD & HUNT, INC.
Designer	MEAD & HUNT, INC.
Project Manager	RICHARD SCHMALE
Regional Examiner	
Regional Supervisor	
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 11/14/13 (Signature)

E



DEMO PLAN GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH DIVISION 1 GENERAL REQUIREMENTS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. ALL WORK SHALL BE STAGED / SEQUENCED TO MAINTAIN ACCESS TO ONE FRONT ENTRY AND AT LEAST TWO EXISTING TOILET ROOMS AT ALL TIMES. PROVIDE TEMPORARY MEN/WOMEN SIGNAGE AS NEEDED, COORDINATE WITH WDOT STAFF.
4. REMOVE ALL WALL MOUNTED MAP CASES FROM WALLS TO BE REMODELED; TURN OVER TO OWNER FOR REUSE.
5. HAND REMOVE SALVAGE AND RESTORE ANY, ALL OTHER EXISTING CONSTRUCTION NECESSARY TO COMPLETE THE WORK TO MATCH ORIGINAL WORKMANSHIP.

DEMO PLAN KEYED NOTES:

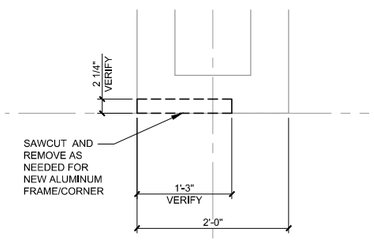
1. REMOVE ALUMINUM ENTRANCE SYSTEM BELOW WOOD BEAM (FOR REUSE). HAND REMOVE BASE CURBS TO TOP OF BASE SLAB AT INTERIOR DOOR, AND TO BOTTOM OF BASE SLAB AT EXTERIOR DOOR.
2. REMOVE WALL AND ALUMINUM WINDOWS BELOW WOOD BEAM. KEEP POWER TO REESTABLISH EXISTING OUTLETS IN NEW WALL.
3. REMOVE ALUMINUM WINDOW SYSTEM BELOW WOOD BEAM. SAW CUT AND HAND REMOVE PORTIONS OF CURBS AS NECESSARY FOR RELOCATED ALUMINUM ENTRANCE.
4. REMOVE ELECTRIC HEATER AND POWER SUPPLY.
5. REMOVE BENCH, RELOCATE ONE; TURN ONE OVER TO OWNER
6. SAWCUT AND REMOVE CONCRETE FLOOR SLAB AND MATT.
7. SAWCUT AND REMOVE SIDEWALK PANELS TO FIRST JOINT TO CONSTRUCT FROST WALL
8. HAND REMOVE FLOOR TILE TO GROUT LINE PER NEW FLOOR PATTERN AND SELECTIVELY SAWCUT AND REMOVE FLOOR SLAB TO COMPLETE U.G. PLUMBING WORK. SALVAGE FLOOR TILE FOR REUSE.
9. HAND REMOVE 2 ROWS OF FLOOR TILE TO CREATE NEW FLOOR PATTERN. SALVAGE FOR REUSE.
10. REMOVE EXISTING DOOR OPERATORS AND CONTROLLERS; REMOVE / ABANDON PNEUMATIC SYSTEM; RESTORE SUBSTRATES AND FINISHES. TURN COMPRESSOR OVER TO OWNER.
11. REMOVE ELECTRIC CABINET UNIT HEATER FOR RELOCATION TO NEW VESTIBULE.
12. REMOVE MAP DISPLAY CASES, TURN OVER TO OWNER.
13. REMOVE PENDANT LIGHT FIXTURE ABOVE NEW TOILET ROOM. TURN OVER TO OWNER. PROVIDE BLANK PLATE (BLACK).
14. PROTECT OR REMOVE AND REINSTALL EXISTING VENDING MACHINE WATER SUPPLY.

PLAN NORTH

1 **DEMOLITION PLAN**

1/8" = 1'-0"

0 4' 8' 16'



2 **DEMOLITION PLAN**

M&H NO: 3230200-114714.01

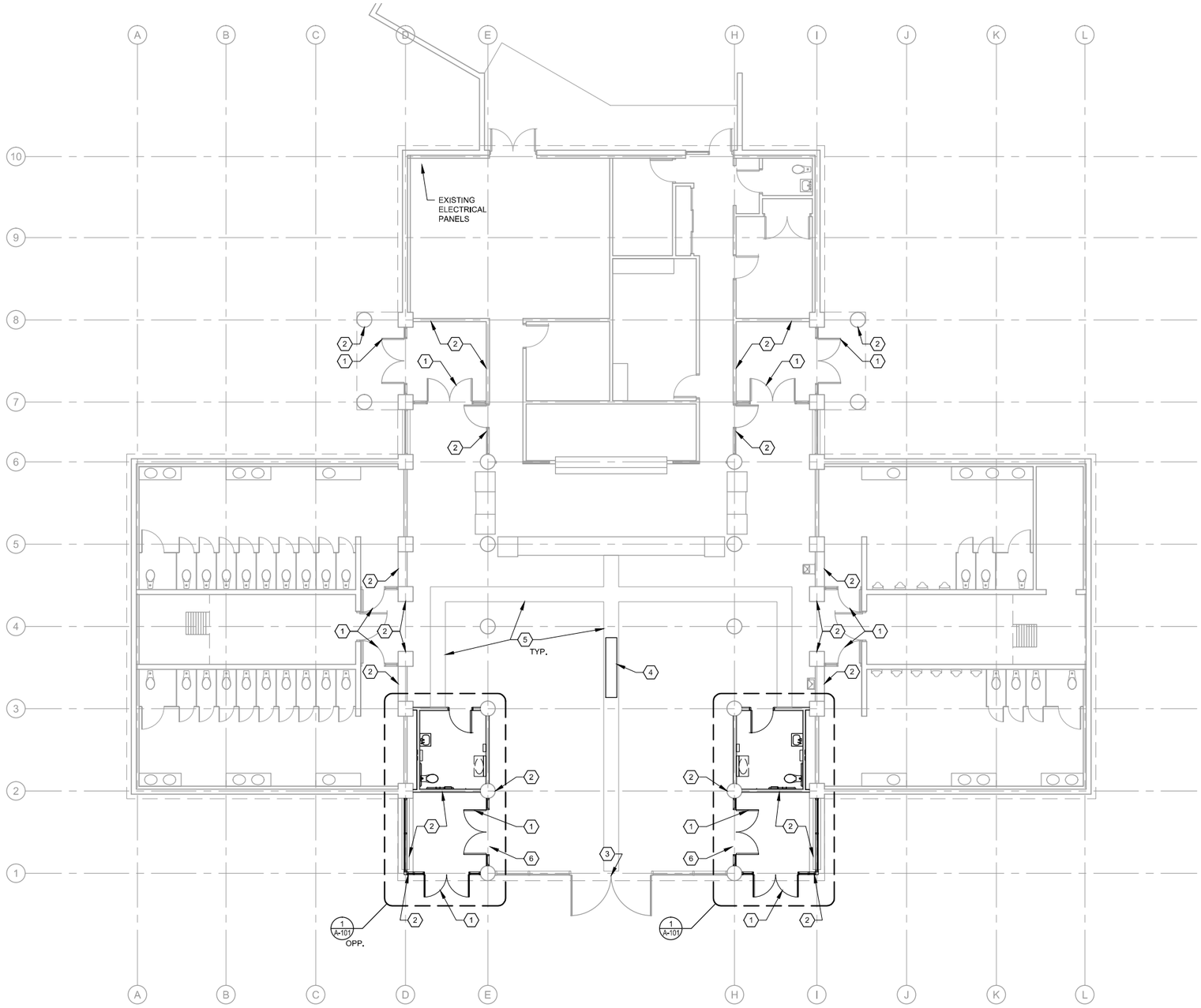
AD101

PROJECT NO: 1030-31-72	HWY: REST AREA 26	COUNTY: KENOSHA	DEMOLITION PLAN	SHEET C2	E

FILE NAME : X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_AD101.DWG PLOT DATE : 4/16/2012 3:32 PM PLOT BY : NATE DEMASTER PLOT NAME : ----------

WISDOT/CADDS SHEET 42

X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_AD101.DWG
4/25/2013 12:40:46 AM



FLOOR PLAN GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH DIVISION 1 GENERAL REQUIREMENTS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. ALL WORK SHALL BE STAGED / SEQUENCED TO MAINTAIN ACCESS TO ONE FRONT ENTRY AND AT LEAST TWO EXISTING TOILET ROOMS AT ALL TIMES. PROVIDE TEMPORARY MEN / WOMEN SIGNAGE AS NEEDED. COORDINATE WITH WDOT STAFF.
4. COORDINATE AND PROVIDE NEW CIRCUIT BREAKERS AND ELECTRIC FEEDERS FROM EXISTING PANELS AS NECESSARY FOR ALL NEW AND RELOCATED DEVICES REQUIRING ELECTRICAL POWER. ROUTE ALL POWER FEEDERS IN CONCEALED SPACES WHEREVER POSSIBLE AND CONSOLIDATE FEEDERS IN CONDUITS ALONG COMMON ROUTES APPROVED BY THE OWNER TO MINIMIZE NUMBER OF INDIVIDUAL EXPOSED CONDUITS WHERE UNAVOIDABLY EXPOSED TO PUBLIC VIEW. PAINT EXPOSED CONDUITS AND JUNCTION BOXES TO MATCH COLOR OF ADJACENT SURFACES. REUSE EXISTING CIRCUITS WHERE POSSIBLE AND ACCEPTABLE TO OWNER. DEACTIVATE ABANDONED ELECTRICAL SUPPLIES / DEVICES.
5. ALL WORK SHALL MEET THE APPROPRIATE COMMERCIAL BUILDING CODES.
6. ALL NEW COMPONENTS AND WORK SHALL BE COMMERCIAL GRADE.

FLOOR PLAN KEYED NOTES:

1. NEW ELECTRIC ADA DOOR OPERATORS AT THESE DOOR LEAFS.
2. WIRELESS DOOR ACTUATOR (SURFACE MOUNT) (2 PER OPERATOR) MATCH LOCATIONS WITH EXISTING WHERE POSSIBLE.
3. NEW MAGNETIC ASTRAGAL SET (FULL HEIGHT) ON INSIDE FACE OF EXISTING DOOR LEAVES. NEW STOP SEAL FULL WIDTH ON INSIDE FACE AT DOOR THRESHOLD. EXISTING JAMB / HEAD SEALS TO REMAIN.
4. REINSTALL EXISTING BENCH AS ORIGINAL.
5. NEW 12"x12" CERAMIC FLOOR TILE (2 ROWS) RESET / REPLACE ADJACENT EXISTING TILE IF DISTURBED OR DAMAGED.
6. REPLACE / RESTORE FLOOR TILE WITH FULL SALVAGED TILES TO MATCH EXISTING AT REMOVED BENCHES / HEATERS (TYP.)

PLAN NORTH

1 **OVERALL FLOOR PLAN**

1/8" = 1'-0"

0 4' 8' 16'

M&H NO.: 3230200-114714.01

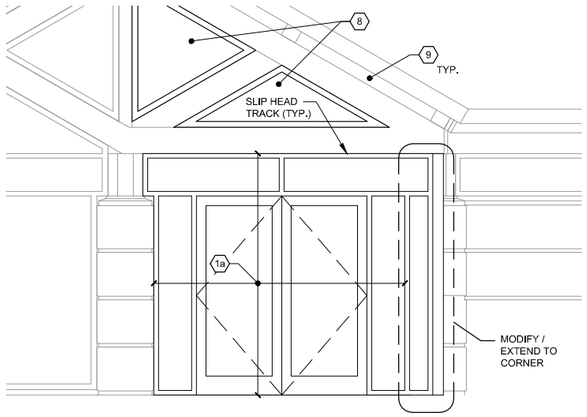
A-100

PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	OVERALL FLOOR PLAN	SHEET 03	E

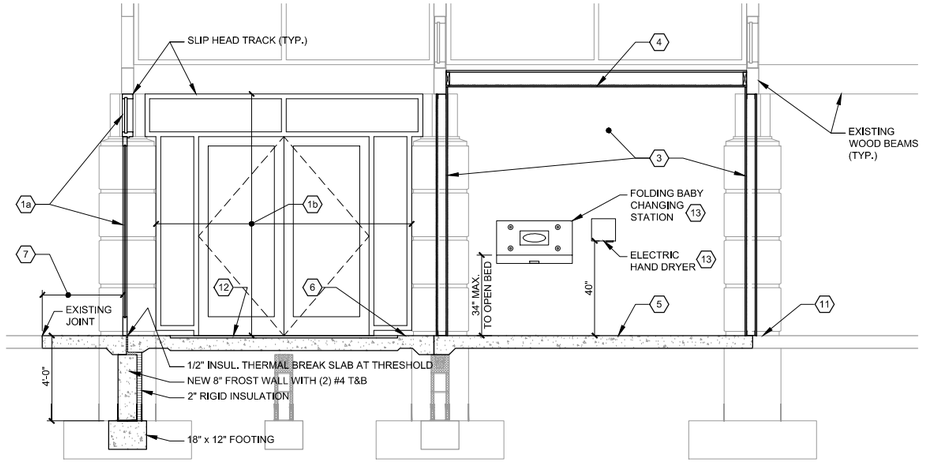
FILE NAME : X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_A-100.DWG PLOT DATE : 4/16/2012 3:32 PM PLOT BY : NATE DEMASTER PLOT NAME : ----------

WISDOT/CADDS SHEET 42

X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_A-100.DWG 12/3/2013 7:02:46 PM



6 **EXTERIOR DOOR ELEVATION**
3/8" = 1'-0"



3 **SECTION**
3/8" = 1'-0"

FLOOR PLAN GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH DIVISION 1 GENERAL REQUIREMENTS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. ALL WORK SHALL BE STAGED / SEQUENCED TO MAINTAIN ACCESS TO ONE FRONT ENTRY AND AT LEAST TWO EXISTING TOILET ROOMS AT ALL TIMES. PROVIDE TEMPORARY MEN / WOMEN SIGNAGE AS NEEDED. COORDINATE WITH WDOT STAFF.

FLOOR PLAN KEYED NOTES:

1a— REWORK AND REINSTALL EXISTING OR PROVIDE NEW ALUMINUM ENTRANCE TO MATCH EXISTING. GLAZING TO BE CLEAR, CENTER FRAMES ON COLUMNS AND BEAMS ABOVE. U.N.O. PROVIDE SLIP HEAD TRACK FOR BEAM DEFLECTION. REPLACE ALL DOOR HARDWARE TO MATCH EXISTING. PROVIDE NEW ALUMINUM THRESHOLD.

1b— REWORK AND REINSTALL EXISTING OR PROVIDE NEW ALUMINUM ENTRANCE TO MATCH EXISTING. GLAZING TO BE TINTED, CENTER FRAMES ON COLUMNS AND BEAMS ABOVE. U.N.O. PROVIDE SLIP HEAD TRACK FOR BEAM DEFLECTION. REPLACE ALL DOOR HARDWARE TO MATCH EXISTING.

2— NEW ALUMINUM FRAMED WINDOWS WITH MULLIONS AND INSULATING GLASS TO MATCH EXISTING ABOVE EXISTING WALL. PROVIDE SLIP HEAD TRACK FOR BEAM DEFLECTION.

3— NEW PARTITION WALL TO UNDERSIDE OF WOOD BEAM (OR NEW CEILING 1 WALL), 3 5/8" MTL STUDS AT 16" O.C. WITH 5/8" IMPACT RESISTANT GWB LOBBY / VESTIBULE SIDE AND 1/2" TILE BACKER BD AND CERAMIC TILE FULL HEIGHT TOILET ROOM SIDE. REESTABLISH EXISTING VENDING OUTLETS. PROVIDE BATT. INSULATION AND VAPOR BARRIES IN NORTH WALL OF NEW VESTIBULES.

4— NEW CEILING BETWEEN EXISTING BEAMS. 2x8 AT 24" WITH 3/4" T&G PLYWOOD TOP AND 5/8" GWB BOTTOM.

5— NEW CONCRETE FLOOR. 5" THICK WITH #4 AT 18" E.W.; WITH THINSET CERAMIC TILE AND CERAMIC TILE BASE TO MATCH EXISTING. SLOPE TO FLOOR DRAIN.

6— NEW CONCRETE FLOOR. 5" THICK WITH #4 AT 18" E.W.; WITH THINSET CERAMIC TILE AND CERAMIC TILE BASE TO MATCH EXISTING AROUND RECESSED FLOOR GRATE.

7— NEW CONCRETE SIDEWALK PANEL 5" THICK WITH #4 AT 18" E.W., BROOM FINISH TO MATCH EXISTING. DOWEL TO FROST WALL AND EXISTING SIDEWALK WITH #4 AT 12" O.C.

8— (2) NEW ALUMINUM FRAMED TRIANGULAR WINDOWS WITHIN THE TRUSS SYSTEM ABOVE TO MATCH EXISTING. GLAZING TO BE CLEAR, INSULATING.

9— INFILL BETWEEN ROOF DECK AND TOP OF TRUSS OVER VESTIBULE PER REFERENCE DRAWINGS DETAIL 6/A19. CONTINUOUS SEALANT ON PERIMETER BOTH SIDES.

10— LOCKABLE FLUSH CEILING HATCH, 2'x2'

11— CUT / RESET / REPLACE EXISTING TILE WITH FULL-PIECE SALVAGED TILES AND TILE BASE TO ADJOIN NEW WALL AND MEET NEW TILE UNDER DOOR.

12— 8'-0" x 8'-0" RECESSED FLOOR GRATE WITH ALUMINUM FRAME (NO DRAIN)

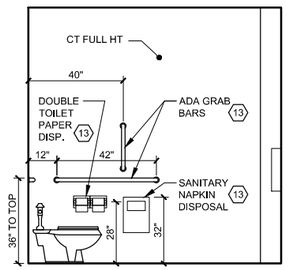
13— COORDINATE EXACT LOCATIONS AND HEIGHTS OF TOILET ROOM ACCESSORIES TO MEET ADA.

14— 3' - 0" x 7' - 0" HOLLOW METAL DOOR AND FRAME WITH HARDWARE SET 7 (SECTION 087100)

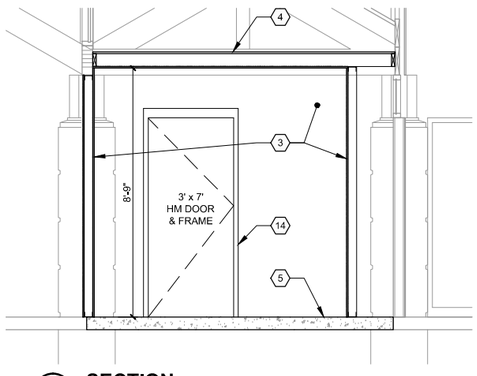
15— REINSTALL EXISTING CABINET UNIT HEATER

7 **INTERIOR ELEVATION**
3/8" = 1'-0"

4 **SECTION**
3/8" = 1'-0"



8 **INTERIOR ELEVATION**
3/8" = 1'-0"

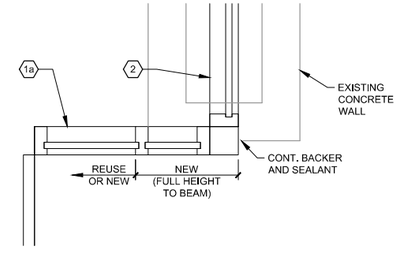


5 **SECTION**
3/8" = 1'-0"

PLAN NORTH

1 **NEW UNISEX TOILET FLOOR PLAN**
3/8" = 1'-0" (TYP. OF 2)

0 2' 4' 6'



2 **ENLARGED PLAN DETAIL**
1" = 1'-0"

MAH NO: 3230200-114714.01

A-101

PROJECT NO: 1030-31-72	HWY: REST AREA 26	COUNTY: KENOSHA	FLOOR PLAN AND ELEVATIONS	SHEET 04	E

FILE NAME : X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_A-101.DWG PLOT DATE : 4/16/2012 3:32 PM PLOT BY : NATE DEMASTER PLOT NAME : ----------

WISDOT/CADDS SHEET 42

PLUMBING EQUIPMENT AND FIXTURE SCHEDULE

MARK	EQUIPMENT TYPE	MANUFACTURER, MODEL NUMBER	DESCRIPTION	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL AMPS	REMARKS
FD-1	FLOOR DRAIN (PUBLIC AND STAFF AREA'S)	WATTS, FD-100A	CAST IRON BODY, COMBINATION INVERTIBLE MEMBRANE CLAMP, ADJUSTIBLE COLLAR WITH HEEL PROOF POLISHED NICKLE BRONZE STRAINER AND TRAP PRIMER. PPP PRIME RITE TRAP PRIMER.	N/A	N/A	N/A	(7)
L-1 (ADA)	LAVATORY	KOHLER, KINGSTON WALL MOUNT SINK, MODEL - K-2005-L	PROVIDE AND INSTALL CHROME PLATE CAST BRASS "P" TRAP WITH OFFSET TAILPIPE AND GRID STRAINER. LOOSE KEY ANGLE STOPS, SUPPLIES, SOAP DISPENSER, AND ESCUTCHEON PLATES AROUND ALL PIPE PENETRATIONS, PROVIDE TRAP WRAP ON ALL EXPOSED SUPPLY & DRAIN PIPING BELOW SINK. MOUNT SINK TO COMPLY WITH ADA REQUIREMENT.	N/A	N/A	N/A	(3)(2)
	LAVATORY FAUCET	MOEN COMMERCIAL FAUCET - MODEL 8305	PROVIDE ALL COMPONENTS FOR COMPLETE AND PROPER OPERATION OF FIXTURE, INCLUDING BATTERIES, 4" DECK PLATE AND THERMOSTATIC MIXING VALVE EQUAL TO WATTS MODEL MMV).	N/A	N/A	N/A	(4)
WC-1 (ADA)	WATER CLOSET BOWL	KOHLER, KINGSTON K-4368-0	1.6 GPF, FLOOR MOUNTED, BOTTOM OUTLET, WHITE, ELONGATED, VITREOUS CHINA, SIHPHON JET, 1-1/2" TOP SPUD, 2-1/4" PASSAGE WAY. ALL TRIM TO BE VANDAL RESISTANT. PROVIDE ALL COMPONENTS AS REQUIRED FOR COMPLETE OPERATION . MOUNT TOP OF SEAT BETWEEN 17" AND 19"ABOVE FINISHED FLOOR TO COMPLY WITH ADA REQUIREMENTS.	N/A	N/A	N/A	(3)
	SEAT	KOHLER, K-4670-CA	ELONGATED OPEN FRONT SEAT WITH ANTI-MICROBIAL AGENT AND WITHOUT COVER.	N/A	N/A	N/A	(5)
	WATER CLOSET FLUSHOMETER	KOHLER, K-10957	1.6 GPF, TOUCHLESS DC FLUSHOMETER.	N/A	N/A	N/A	(6)

REMARKS:

(1) NOT USED.

(2) PROVIDE PUMPED SOAP DISPENSER. KOHLER MODEL K-7346 OR APPROVED EQUAL.

(3) OR EQUAL FROM AMERICAN STANDARD, SLOAN OR CRANE PLUMBING.

(4) OR EQUAL FROM CHICAGO FAUCET, OR MOEN COMMERCIAL.

(5) OR EQUAL FROM AMERICAN STANDARD OR CHURCH.

(6) OR EQUAL FROM KOHLER, AMERICAN STANDARD, DELANY, OR SLOAN.

(7) OR EQUAL FROM WADE, JR SMITH OR JOSAM.

PIPING AND FITTING SCHEDULE (1)

PIPE (2) (3)	MATERIAL	DIMENSIONS	FITTINGS	JOINT
SANITARY AND VENT (UG & AG)	INTERIOR ABOVE GRADE: PVC, SOLID, ASTM D 2665, NSF 14, HUBLESS CI ASTM A 888 CISPI MARKED. INTERIOR BELOW GRADE: PVC-SCH. 40 SOLID, ASTM D 2665. CAST IRON-HUB & SPIGOT SERVICE WEIGHT ASTM A 74 WITH NEOPRENE COMPRESSION GASKETS ASTM C 564, CISPI 301 AND CISPIHSN85	ASTM D 2665, SCHED 40	PVC - ASTM D 3311, DWV PATTERN. CAST IRON - PIPE AND FITTING SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON PIPE INSTITUTE CAST IRO PIPING AND FITTING SHALL BE OF A B & I FOUNDRY.	SOCKET SOLVENT FUSION IAW ASTM D 2665 APPENDEX
WATER (4)	PIPE: COPPER TUBE, SEAMLESS, DRAWN, ASTM B 88 TYPE L FOR ABOVE GROUND PIPING. USE TYPE "K" FOR BELOW GROUND PIPING. SEE SPECIFICATIONS.		WROUGHT COPPER: ASME B16.22	SOCKET SOLDER IAW ASTM B 828
			CAST COPPER ALLOY: ASME B16.18	LEAD-FREE SOLDER, ASTM B 32
			FLANGES: ASME B16.24, CAST COPPER, USE EPDM GASKETS AND 304 SS FASTENERS.	WATER FLUSHABLE SOLDER FLUX, ASTM B 813
			CAST BRONZE: ASME B16.15	

TRANSITIONS BETWEEN DIFFERENT MATERIALS

POLYPROPYLENE AND ANY	UP TO 8": SHIELDED TRANSITION COUPLNG, FLUOROELASTOMER SLEEVE, SS SHEAR RING, SS CLAMPS, MISSION SERIES P-FKM. OVER 8": ASTM C 1173 TRANSITION COUPLNG, ASTM D 5926 FLEXIBLE PVC SLEEVE, SS CLAMP. FERNCO SERIES 1056.
CAST IRON AND ANY	ASTM C 1460 SHIELDED TRANSITION COUPLING, ASTM C 564 NEOPRENE SLEEVE, SS SHEAR RING, SS CLAMPS.
COPPER AND STEEL	DIELECTRIC FLANGES

REMARKS:

(1) SEE GENERAL NOTES ON SHEET P-001.

(2) UG = UNDERGROUND (BURIED PIPE), AG = ABOVEGROUND (ALL PIPE EXCEPT UNDERGROUND).

(3) SEE PIPE IDENTIFICATION SCHEDULE.

(4) INCLUDES DOMESTIC, NON-POTABLE, AND POTABLE.

PIPE IDENTIFICATION TABLE (1)

ABBREVIATION	SERVICE (2)	PIPE LABEL TEXT	PIPE LABEL COLORS
CW	COLD DOMESTIC WATER	CW	(3)
HW	HOT DOMESTIC WATER	HW	(3)
V	VENT FOR SANITARY DRAIN	V	(4)

REMARKS:

(1) SEE PLUMBING SCHEDULES GENERAL NOTES

(2) NOT ALL SERVICES USED

(3) GREEN BACKGROUND, WHITE TEXT

(4) YELLOW BACKGROUND, BLACK TEXT

GENERAL ABBREVIATIONS:

AFF	ABOVE FINISH FLOOR
AG	ABOVE GROUND
AST	ABOVE GROUND STORAGE TANK
BHP	BRAKE HORSE POWER
BJH	BETWEEN JOIST ABOVE
BOB	BOTTOM OF BEAM
BOJ	BOTTOM OF JOIST
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
CL	CENTERLINE
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CTB	CLOSE TO BEAM
CTC	CLOSE TO COLUMN
CTJ	CLOSE TO JOIST
CTW	CLOSE TO WALL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
EL	ELEVATION
ETR	EXISTING TO REMAIN
FC	FLEXIBLE CONNECTION
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FLA	FULL LOAD AMPERES
FLR	FLOOR
FPS	FEET PER SECOND
FT	FEET
GAL	GALLON
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD (FEET)
HP	HORSEPOWER
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IN	INCH
INV	INVERT
IWS	IN WALL SPACE
KW	KILOWATT
LB	POUNDS
MFR	MANUFACTURER
MTD	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PH	PHASE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE IN..
PSIA	POUND PER SQUARE INCH-ABSOLUTE
PSID	POUNDS PER SQUARE INCH-DIFF..
PSIG	POUNDS PER SQUARE INCH-GAUGE
RPM	REVOLUTIONS PER MINUTE
SHT	SHEET
STD	STANDARD
STL	STEEL
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TJA	THRU JOISTS ABOVE
TOB	TOP OF BEAM
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TYP	TYPICAL
V	VENT
VOL	VOLUME
VTR	VENT THRU ROOF
VTW	VENT THRU WALL
WG	WATER GAUGE
WTR	WATER

ABOVEGROUND PIPE INSULATION SCHEDULE

SERVICE		PIPE SIZE	INSULATION MATERIAL TYPE	THICKNESS	JACKET - STRAIGHT PIPE	JACKET - FITTINGS	REMARKS
COLD WATER	SUPPLY	2" AND SMALLER	MINERAL FIBER	1/2 INCH	ASJ	PVC	(1)(2)
		2 1/2" AND LARGER	MINERAL FIBER	1 INCH	ASJ	PVC	(1)(2)
HOT & TEMPERED WATER	SUPPLY	2" AND SMALLER	MINERAL FIBER	1 INCH	ASJ	PVC	(1)(2)
		2 1/2" AND LARGER	MINERAL FIBER	1 1/2" INCH	ASJ	PVC	(1)(2)

REMARKS:

(1) SEE PLUMBING SCHEDULES GENERAL NOTES.

(2) INSULATE ALL PIPE EXCEPT UNDERGROUND.

PIPE ROUTING SCHEDULE (1)

LOCATION ORIENTATION	ROOMS	SERVICE	ROUTING
VERTICAL	ALL EXCEPT MECHANICAL	ALL	CONCEALED INSIDE WALL SPACE, UNLESS OTHER WISE INDICATED.
	MECHANICAL	ALL	EXPOSED CLOSE TO WALL, UNLESS OTHER WISE INDICATED.
HORIZONTAL	WITH CEILINGS	ALL	CONCEALED ABOVE SUSPENDED CEILING
	WITHOUT CEILINGS	ALL	EXPOSED CLOSE TO STRUCTURE/ABOVE 8 FEET.

DRAIN AND VENT PITCH SIZE	MINIMUM PITCH
2" AND SMALLER	1/4" PER FOOT
LARGER THAN 2"	1/8" PER FOOT

REMARKS:

(1) SEE PLUMBING SCHEDULES GENERAL NOTES

(2) MECHANICAL SPACES INCLUDE MECHANICAL EQUIPMENT ROOMS, OUTER WALLS OF PROCESSING BAYS.

PIPE SIZE SCHEDULE

SUPPLY, DRAIN, AND VENT MIN. PIPE SIZES FOR SINGLE FIXTURES (1) (4)

FIXTURE	CW	HW	DRAIN	VENT
WC	1.5	N/A	4	2
L	0.5	0.5	1.5 (2)	1.5
.				

MINIMUM PIPE SIZES FOR CIRCUITS

SERVIOCE	MINIMUM PIPE SIZE
SANITARY DRAIN	1,5 (2)
VENT	1.5
SUPPLY	0,5

PIPE SIZE CHANGES

PIPE SIZES ARE INDICATED ON THIS SCHEDULE AND ON DRAWINGS. FROM WHERE PIPE SIZE IS INDICATED:

SUPPLY PIPE SIZE SHALL NEVER DIMINISH IN UPSTREAM DIRECTION.

DRAIN PIPE SIZE SHALL NEVER DIMINISH IN DOWNSTREAM DIRECTION.

VENT PIPE SIZE SHALL NEVER DIMINISH IN DIRECTION AWAY FROM DRAIN CONNECTION.

REMARKS:

(1) SEE PLUMBING SCHEDULES GENERAL NOTES

(2) 2" UNDERGROUND

(3) MATCH FIXTURE PIPE SIZE, (SEE FLOOR PLAN)

GENERAL NOTES:

1. ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC. THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERE. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
3. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINESTO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
4. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. ACCURATE AND LEGIBLE RECORD (AS-BUILT) DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT.
6. SEE ARCHITECTURAL AND HVAC DRAWINGS FOR ADDITIONAL INFORMATION ON ROUTING OF PIPING.
7. ALL VALVES 2" AND SMALLER TO BE NIBCO, APOLLO, OR WATTS - 2 PIECE, FULL PORT BALL VALVES, BRASS BODY, SS BALL AND WITH EXTENDED HANDLE STEM TO ABOVE INSULATION.
8. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
9. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
10. ALL ELEVATIONS SHOWN ARE RELATIVE TO FIRST FLOOR SLAB ELEVATION OF 100'-0".
11. ANY CALL OUTS OF MAKE, MANUFACTURER OR MODEL ARE TO DEMONSTRATE GENERAL TYPE & STYLE. ALTERNATIVES WILL BE CONSIDERED AND MAY BE APPROVED BY THE ARCHITECT/ENGINEER.

PLUMBING SCHEDULES GENERAL NOTES:

1. SCHEDULES APPLY UNLESS OTHERWISE NOTED ON DRAWINGS.
2. SEE REMARKS FOR ITEMS SHOWN IN PARENTHESIS.

PIPING SUPPORT SCHEDULE:

Pipe Size	Max. Span (copper/steel)	Rod Diameter
1/2 inch	5ft/7ft	3/8 inch
3/4 and 1 inch	6ft/7ft	3/8 inch
1-1/4 inch	6ft/7ft	3/8 inch
1-1/2 inch	8ft/10ft	3/8 inch
2 inch	8ft/10ft	1/2 inch
3 inch	10ft/10ft	1/2 inch

SUPPORT PLASTIC AND PEX PIPING PER MANUFACTURES REQUIREMENTS

PLUMBING ABBREVIATIONS:

CI	CAST IRON
CO	CLEAN OUT
DFU	DRAINAGE FIXTURE UNIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
L	LAVATORY
PVC	POLYVINYL CHLORIDE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
WHR	WATER HEATER

PLUMBING SYMBOLS:

PIPE TURNED TOWARD

PIPE TURNED AWAY

P-TRAP

BRANCH BOTTOM CONNECTION

BRANCH TOP CONNECTION

PIPE CAP

WATER HAMMER ARRESTER

FLUID FLOW DIRECTION

SAN — NEW SANITARY SEWER PIPE

SAN — EXISTING SANITARY SEWER PIPE

DEMOLITION PIPE

VENT PIPING

CW — COLD WATER PIPE

HW — HOT WATER PIPE

HWR — HOT WATER RETURN PIPE

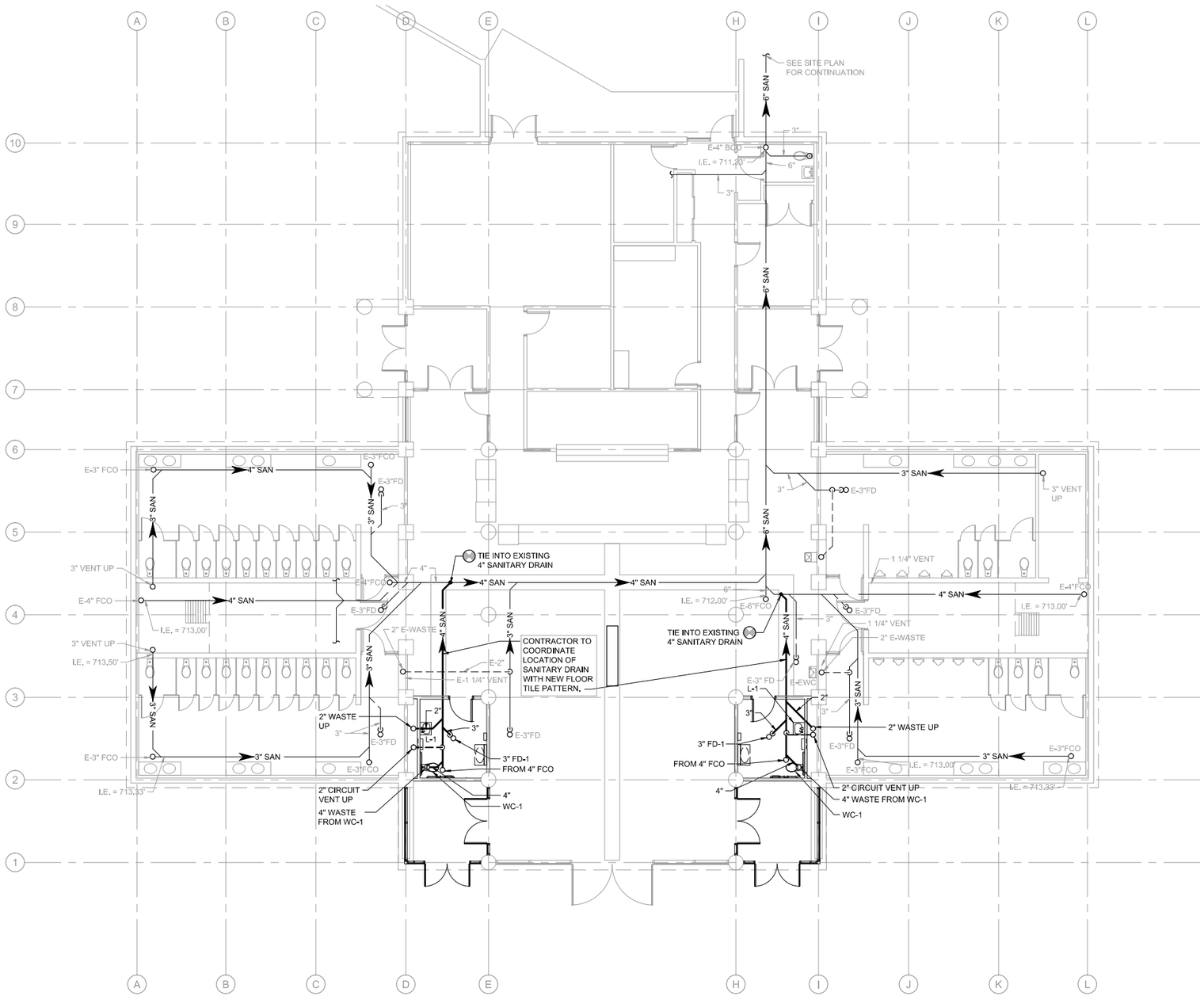
CW — EXISTING COLD WATER PIPING

HW — EXISTING HOT WATER PIPING

HWR — EXISTING HOT WATER RETURN PIPING

M&H NO.:3230200-114714.01

P-001



PLAN NORTH

1 UNDERGROUND DRAIN AND VENT PLUMBING PLAN

1/8" = 1'-0"

0 4' 8' 16'

M&H NO: 3230200-114714.01

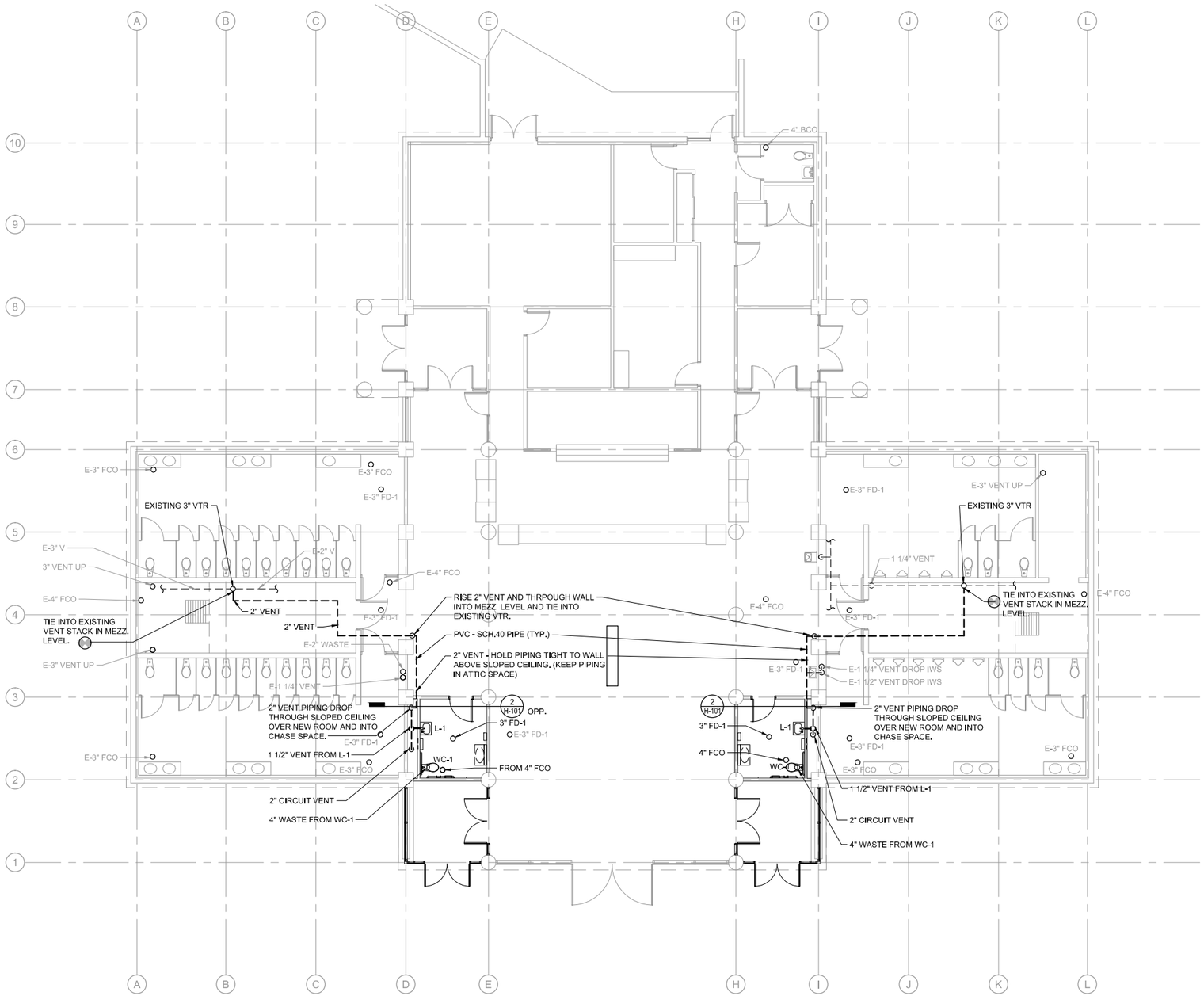
P-100

PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	FLOOR PLAN UNDERGROUND DRAIN & VENT	SHEET 6 OF	E

FILE NAME : X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_P-100.DWG PLOT DATE : 4/16/2012 3:32 PM PLOT BY : NATE DEMASTER PLOT NAME : ----------

WISDOT/CADDS SHEET 42

2



PLAN NORTH

1 ABOVEGROUND DRAIN AND VENT PLUMBING PLAN

1/8" = 1'-0"

0 4' 8' 16'

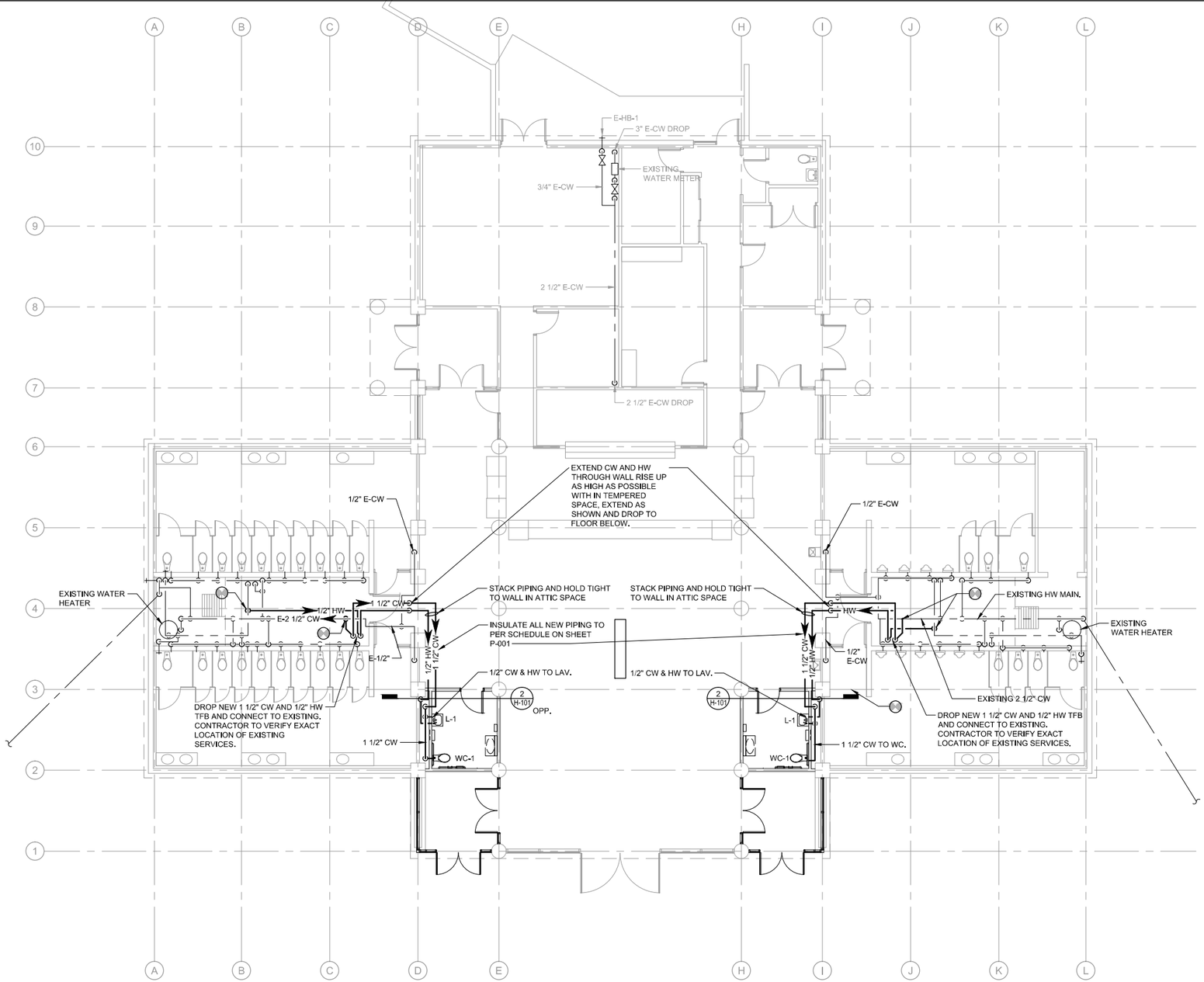
M&H NO: 3230200-114714.01

P-101

PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	FLOOR PLAN ABOVEGROUND DRAIN & VENT	SHEET OF 7	E

FILE NAME : X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_P-101.DWG PLOT DATE : 4/16/2012 3:32 PM PLOT BY : NATE DEMASTER PLOT NAME : ----------

2



PLAN NORTH

1

ABOVEGROUND SUPPLY PIPING FLOOR PLAN

1/8" = 1'-0"

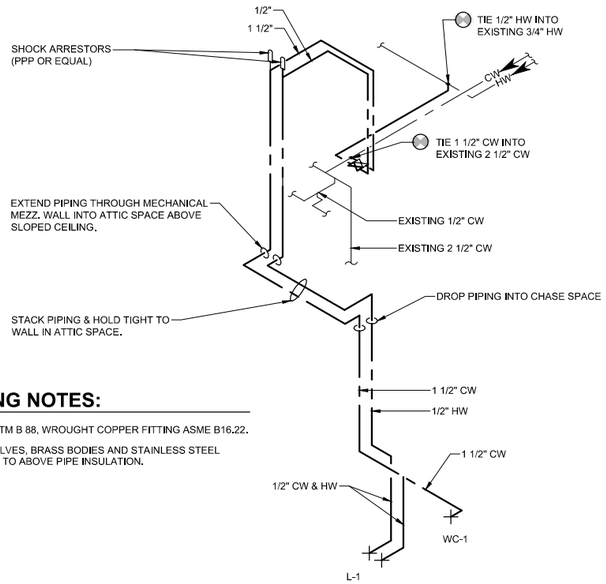
0 4' 8' 16'

M&H NO.: 3230200-114714.01

P-131

PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	FIRST FLOOR SUPPLY PIPING PLAN	SHEET 8 OF	E

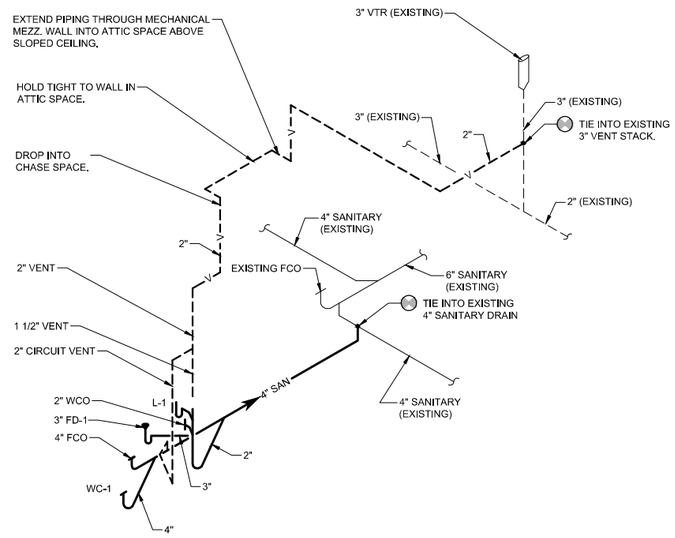
FILE NAME : X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_P-131.DWG PLOT DATE : 4/16/2012 3:32 PM PLOT BY : NATE DEMASTER PLOT NAME : ----------



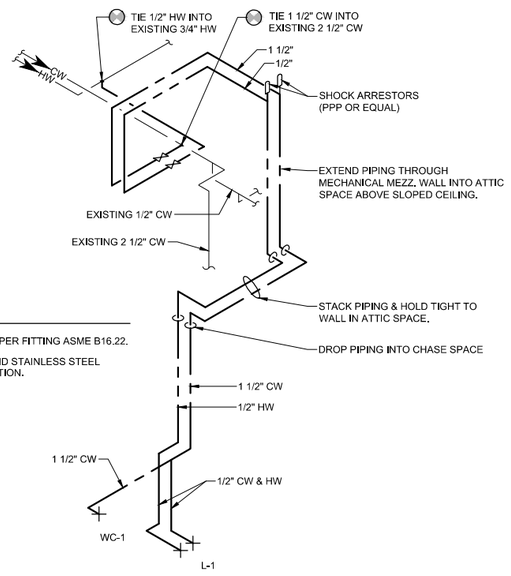
ISOMETRIC PIPING NOTES:

1. PIPING TYPE "L" COPPER ASTM B 88, WROUGHT COPPER FITTING ASME B16.22.
2. 2 PEICE FULL PORT BALL VALVES, BRASS BODIES AND STAINLESS STEEL BALL, WITH HANDLE EXTENSION TO ABOVE PIPE INSULATION.

3 **PARTIAL SUPPLY WATER ISOMETRIC PIPING**
NONE (EAST REST ROOM)



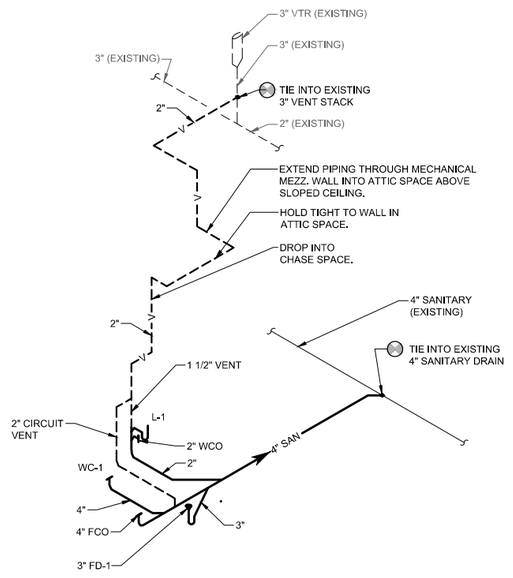
1 **PARTIAL SANITARY & VENT ISOMETRIC PIPING**
NONE (EAST REST ROOM)



ISOMETRIC PIPING NOTES:

1. PIPING TYPE "L" COPPER ASTM B 88, WROUGHT COPPER FITTING ASME B16.22.
2. 2 PEICE FULL PORT BALL VALVES, BRASS BODIES AND STAINLESS STEEL BALL, WITH HANDLE EXTENSION TO ABOVE PIPE INSULATION.

4 **PARTIAL SUPPLY WATER ISOMETRIC PIPING**
NONE (WEST REST ROOM)



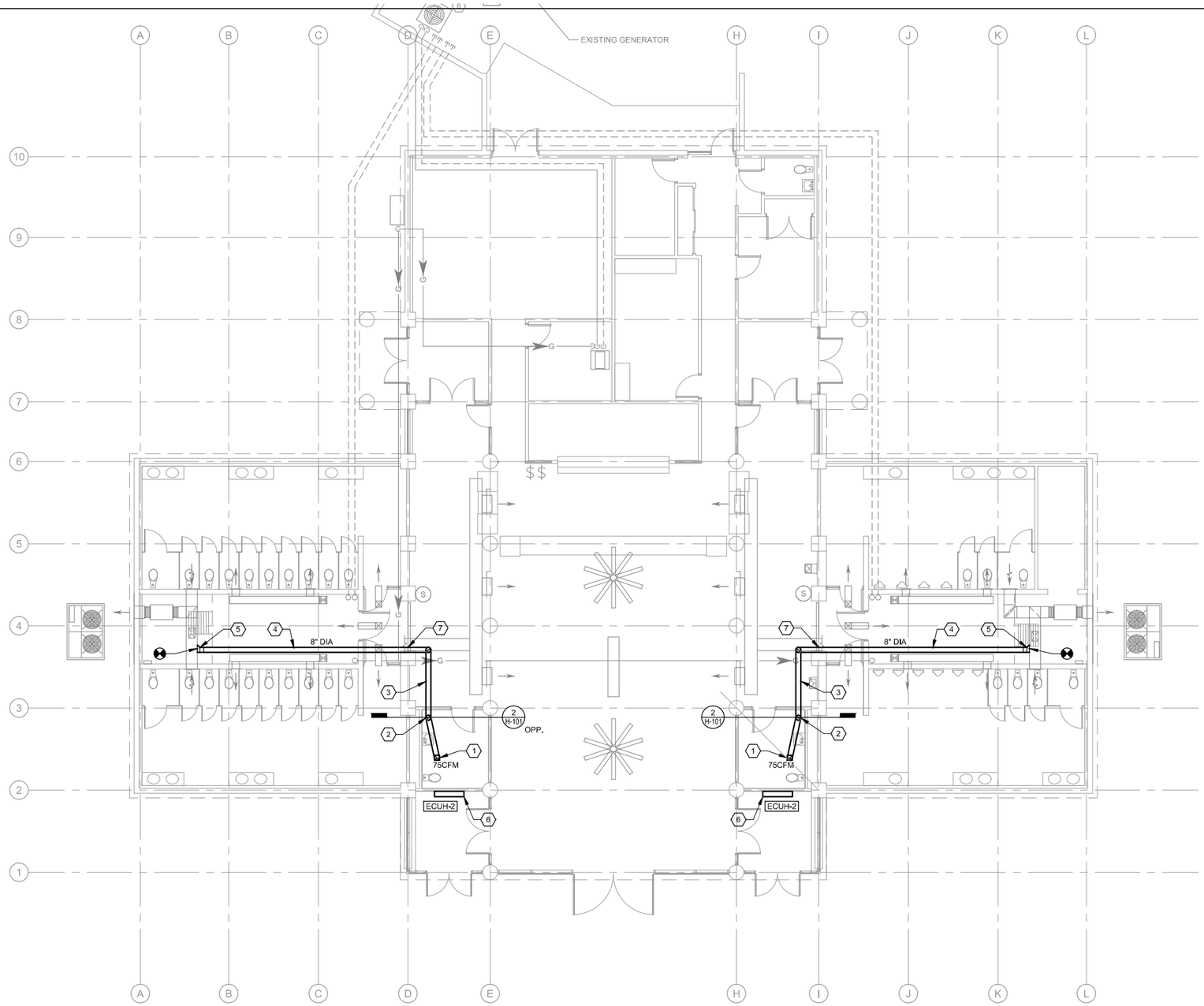
2 **PARTIAL SANITARY & VENT ISOMETRIC PIPING**
NONE (WEST REST ROOM)

M&H NO: 3230200-114714.01

P-901

PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	PLUMBING ISOMETRIC PIPING	SHEET OF 9	E

FILE NAME : X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_P-901.DWG PLOT DATE : 4/16/2012 3:32 PM PLOT BY : NATE DEMASTER PLOT NAME : ----------



GENERAL NOTES:

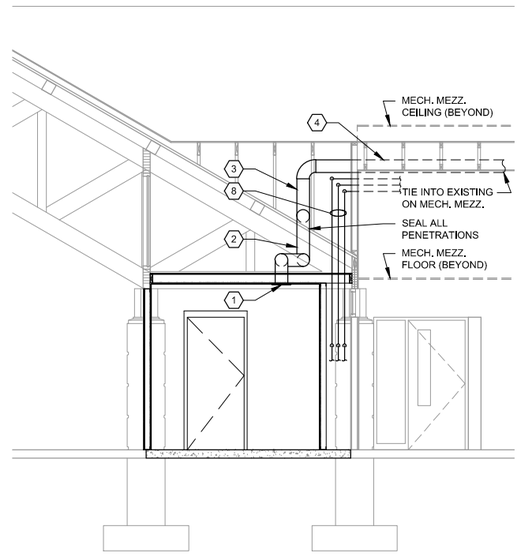
1. ALL WORK SHALL COMPLY WITH DIVISION 1 GENERAL REQUIREMENTS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. ALL WORK SHALL BE STAGED / SEQUENCED TO MAINTAIN ACCESS TO ONE FRONT ENTRY AND AT LEAST TWO EXISTING TOILET ROOMS AT ALL TIMES. PROVIDE TEMPORARY MEN / WOMEN SIGNAGE AS NEEDED. COORDINATE WITH WDOT STAFF.
4. ALL WORK SHALL MEET THE APPROPRIATE COMMERCIAL BUILDING CODES.
5. ALL NEW COMPONENTS AND WORK SHALL BE COMMERCIAL GRADE.
6. DUCTWORK TO BE 20GAUGE GALVANIZED SHEET STEEL. COMPLY WITH SMACNA STANDARDS FOR BRANCH CONNECTIONS AND FOR SUPPORT OF HORIZONTAL DUCTWORK

KEYED NOTES:

1. PROVIDE NEW 8"X8" CEILING MOUNTED EXHAUST GRILL EQUAL TO KRUEGER MODEL 480h WITH OPPOSED BLADE DAMPER. CONNECT DUCTWORK TO GRILL WITH TRACTION FITTING. PROVIDE ALL HARDWARE REQUIRED FOR COMPLETE CONNECTION TO DUCKWORK AND CEILING. KEEP DUCTWORK ABOVE NEW CEILING AS LOW AS POSSIBLE.
2. RISE INTO ATTIC SPACE ABOVE AS SOON AS POSSIBLE OVER NEW ROOM TO MINIMIZE DUCT VISIBLE FROM LOBBY. SEAL PENETRATIONS.
3. ROUTE DUCT THROUGH ATTIC SPACE AND INSULATE.
4. ROUTE DUCT THROUGH MECH. MEZZANINE TO MAXIMIZE CLEARANCE.
5. TIE NEW EXHAUST DUCTWORK INTO EXISTING ON MEZZANINE LEVEL.
6. REINSTALL EXISTING ELECTRIC CABINET UNIT HEATER IN NEW VESTIBULE.
7. PENETRATE MEZZANINE WALL
8. NEW PLUMBING SUPPLY AND VENT PIPING ROUTED THROUGH ATTIC SPACE PER P-101, P-131. COORD. EXACT LOCATIONS IN FIELD.

LEGEND:

- NEW CONNECTION TO EXISTING
- EXISTING DUCT
- NEW DUCT



PLAN NORTH

1 **HVAC PLAN**
1/8" = 1'-0"

0 4' 8' 16'

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

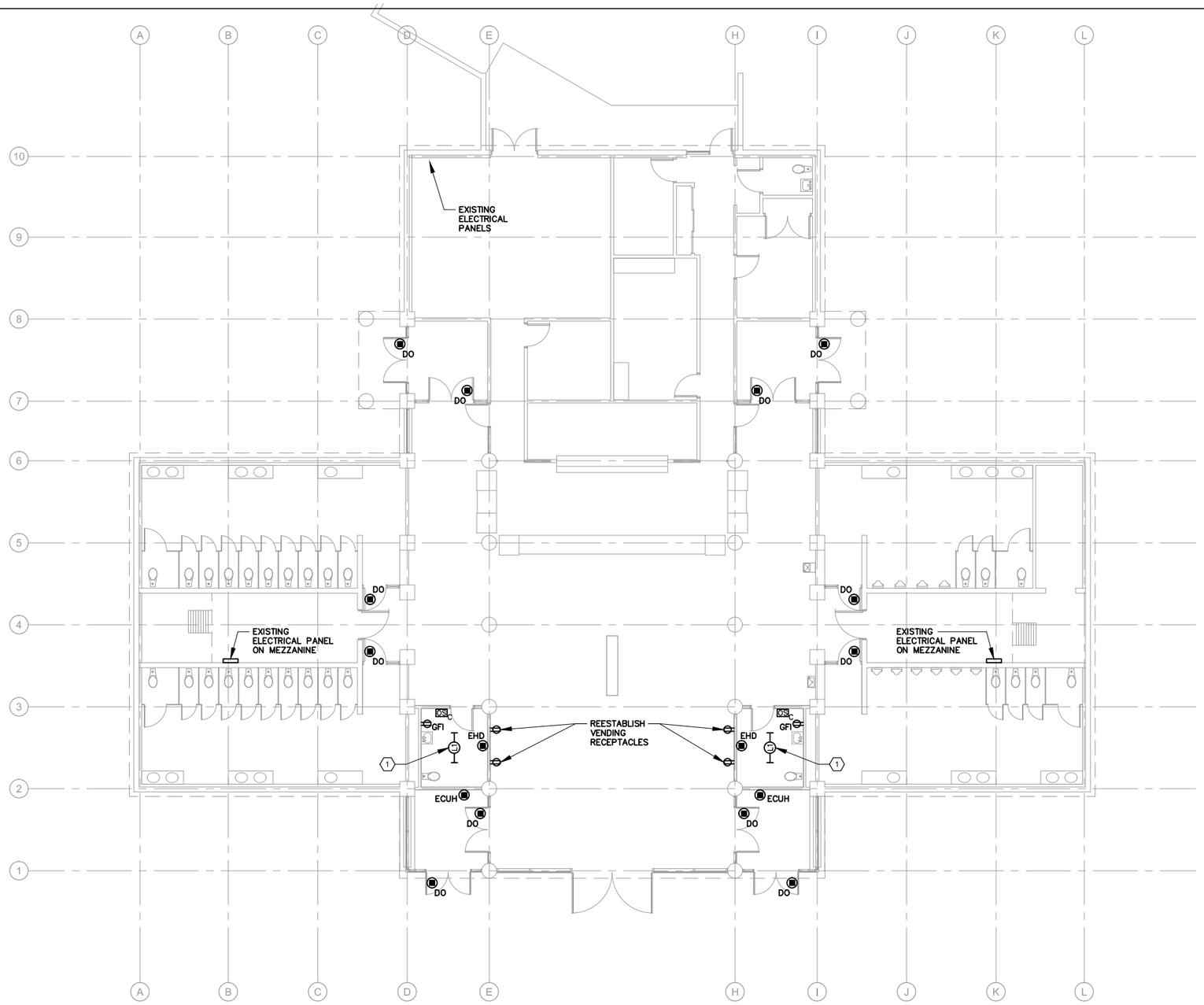
M&H NO.:3230200-114714.01

H-101

PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	HVAC PLAN	SHEET OF 10	E

FILE NAME : X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_H-101.DWG PLOT DATE : 4/16/2012 3:32 PM PLOT BY : NATE DEMASTER PLOT NAME : ----------

WISDOT/CADDS SHEET 42



PLAN NORTH

ELECTRICAL PLAN

1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH DIVISION 1 GENERAL REQUIREMENTS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. ALL WORK SHALL BE STAGED / SEQUENCED TO MAINTAIN ACCESS TO ONE FRONT ENTRY AND AT LEAST TWO EXISTING TOILET ROOMS AT ALL TIMES. PROVIDE TEMPORARY MEN / WOMEN SIGNAGE AS NEEDED. COORDINATE WITH WDOT STAFF.
4. COORDINATE AND PROVIDE NEW SUBPANELS, CIRCUIT BREAKERS AND ELECTRIC FEEDERS FROM EXISTING PANELS AS NECESSARY FOR ALL NEW AND RELOCATED DEVICES REQUIRING ELECTRICAL POWER. ROUTE ALL POWER FEEDERS IN CONCEALED SPACES WHEREVER POSSIBLE AND CONSOLIDATE FEEDERS IN CONDUITS ALONG COMMON ROUTES APPROVED BY THE OWNER TO MINIMIZE NUMBER OF INDIVIDUAL EXPOSED CONDUITS WHERE UNAVOIDABLY EXPOSED TO PUBLIC VIEW. PAINT EXPOSED CONDUITS AND JUNCTION BOXES TO MATCH COLOR OF ADJACENT SURFACES. REUSE EXISTING CIRCUITS WHERE POSSIBLE AND ACCEPTABLE TO OWNER. DEACTIVATE ABANDONED ELECTRICAL SUPPLIES / DEVICES, AND REMOVE CONDUCTORS TO SOURCE. ROUTE NEW CIRCUITS FROM PANELS ON MEZZANINE SAME AS DUCTWORK PER H-101.
5. ALL WORK SHALL MEET THE APPROPRIATE COMMERCIAL BUILDING CODES.
6. ALL NEW COMPONENTS AND WORK SHALL BE COMMERCIAL GRADE.
7. AT EACH TOILET ROOM THE LIGHTS AND RECEPTACLES SHALL BE CIRCUITED TOGETHER.
8. RELOCATED UNIT HEATERS AND HAND DRYERS SHALL BE ON SEPERATE DEDICATED CIRCUITS.

KEYED NOTES:

(1) — NEW LIGHT FIXTURE L1; MILLENIUM STRETCH MLHA12-48-R-MW-CP-3-32-IS-1-120-PEL

LEGEND:

- — EQUIPMENT CONNECTION
- — DUPLEX RECEPTACLE
- OS — OCCUPANCY SENSOR (CEILING MOUNTED)
- — LIGHT FIXTURE SURFACE MOUNTED FLUORESCENT

ABBREVIATIONS:

DO	— DOOR OPERATOR
ECUH	— ELECTRIC CABINET UNIT HEATER
EHD	— ELECTRIC HAND DRYER
GFI	— GROUND FAULT INTERRUPTER
TYP	— TYPICAL

M&H NO.: 3230200-114714.01

E-101

PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	ELECTRICAL PLAN	SHEET OF 11	E

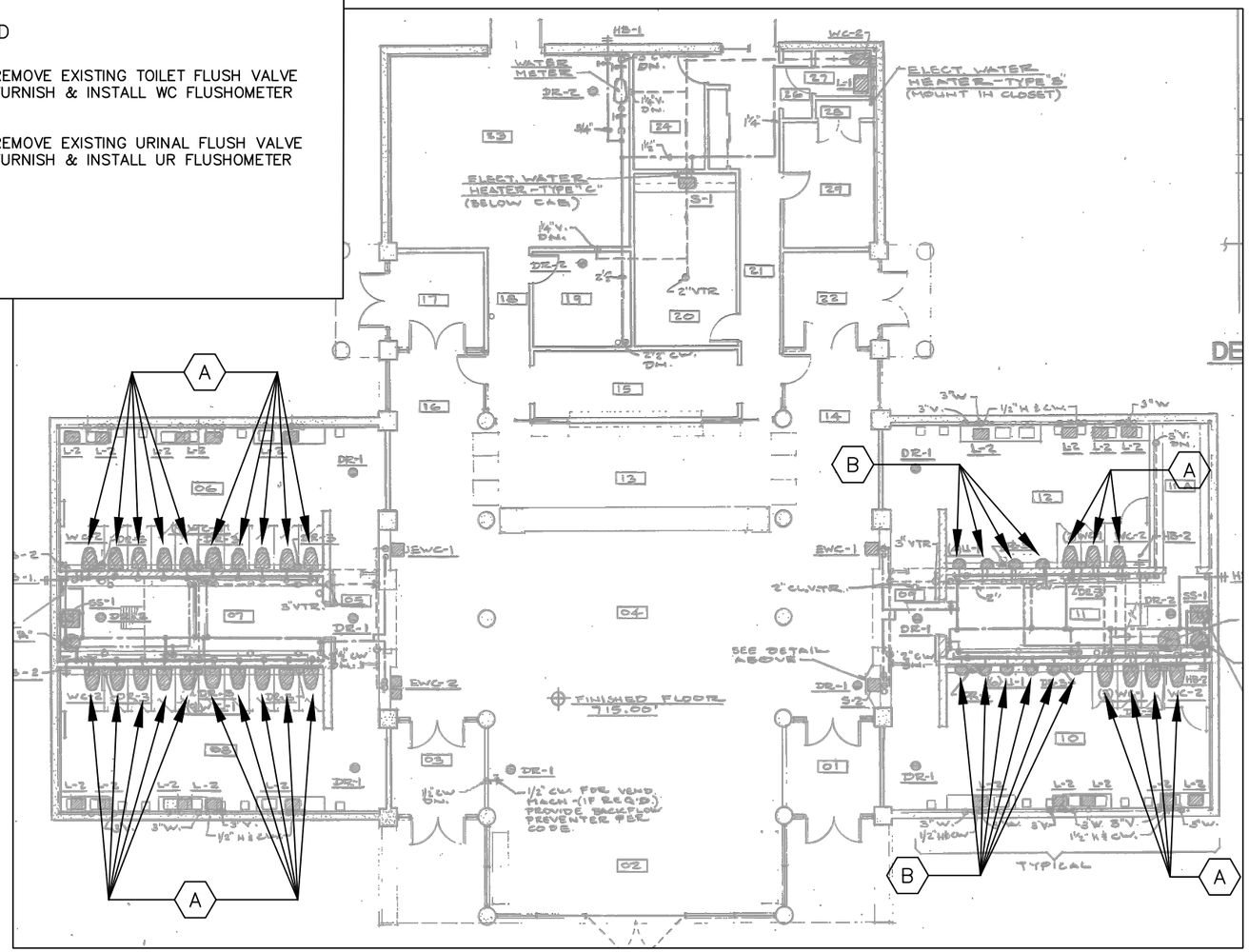
FILE NAME : X:\3230200\114714.01\TECH\CADD\K3 - FAMILY-ASSISTED RESTROOM UPGRADE\1030-31-72_E-101.DWG PLOT DATE : 4/16/2012 3:32 PM PLOT BY : NATE DEMASTER PLOT NAME : ----------

WISDOT/CADDS SHEET 42

LEGEND

A — REMOVE EXISTING TOILET FLUSH VALVE FURNISH & INSTALL WC FLUSHOMETER

B — REMOVE EXISTING URINAL FLUSH VALVE FURNISH & INSTALL UR FLUSHOMETER

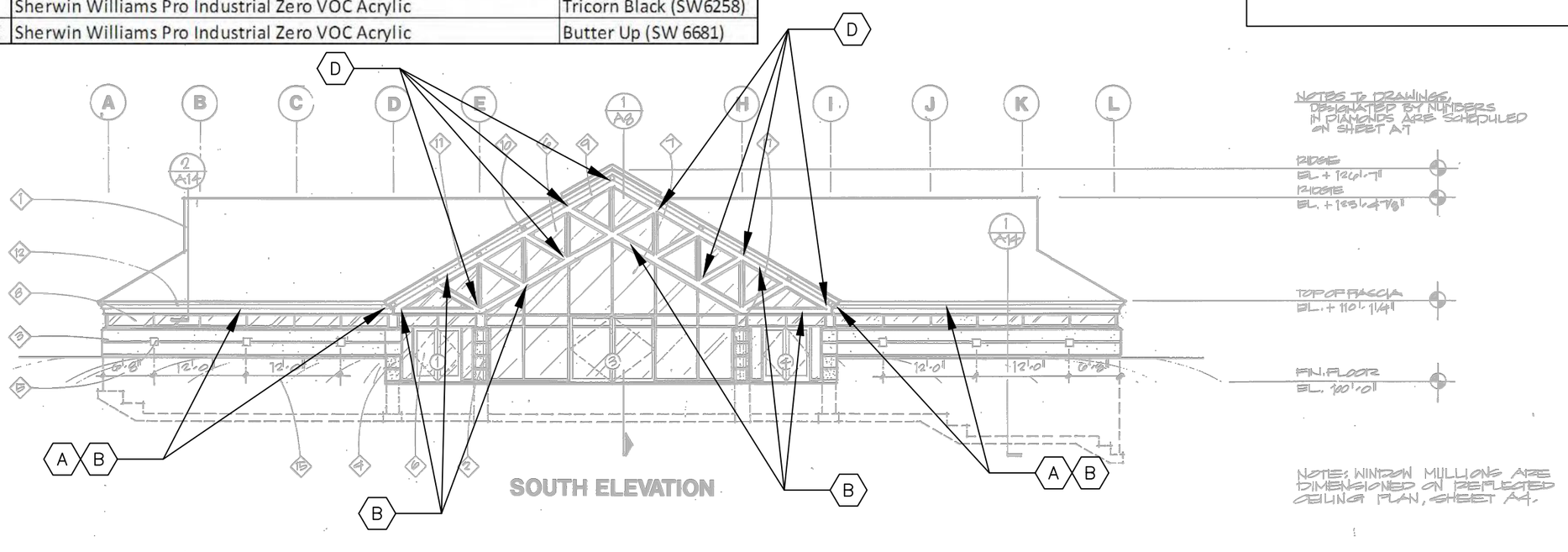


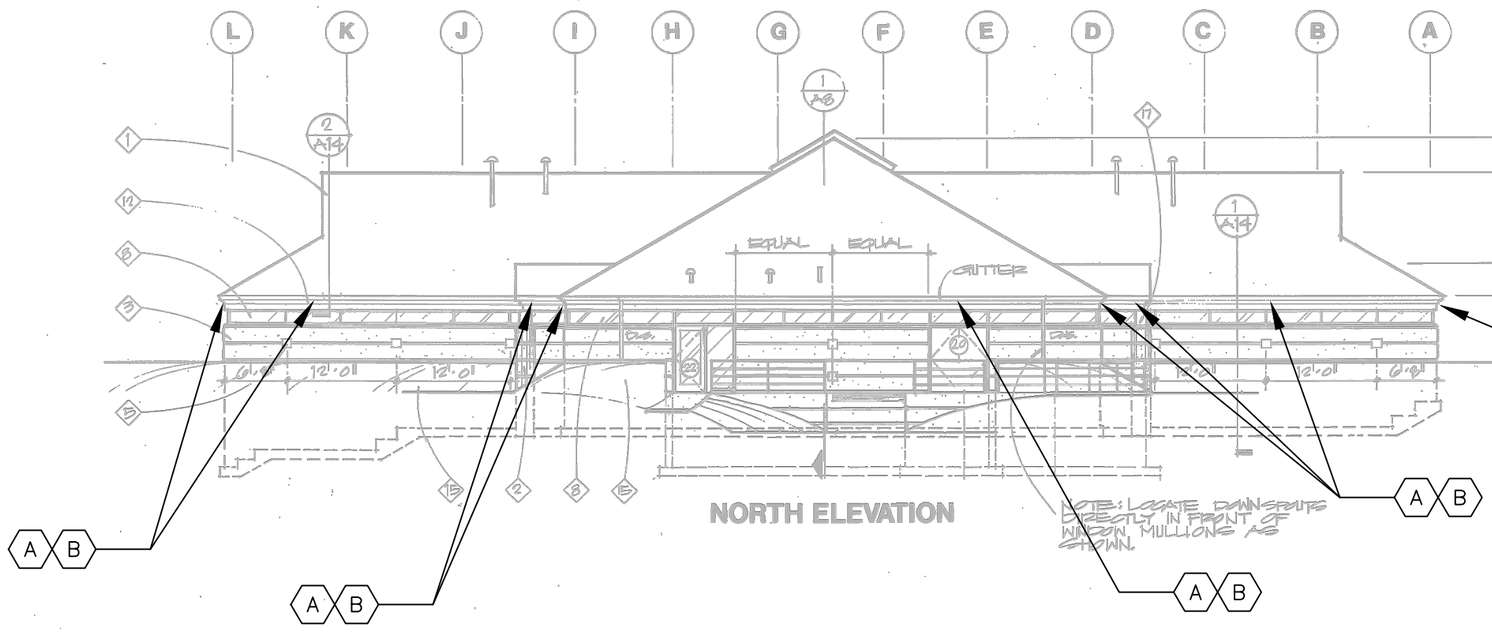
PROJECT NO:1030–31–72	HWY:IH 94	COUNTY:KENOSHA	PLAN: EXISTING RESTROOM REMODELING	SHEET 12 E

FILE NAME : W:\03 PAVTROAD\DOTRJS\RA9_10_26\RA 26\RA 26 RESTROOM\CAD\021001_CD.DWG PLOT DATE : 7/10/2012 7:38 AM PLOT BY : SCHMALE, RICHARD J PLOT NAME : _____ PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

PAINTING SCHEDULE			
LEGEND	DESCRIPTION	COATING SYSTEM	COLOR
B	STAIN WOOD SURFACE	Sherwin Williams Woodscapes Exterior Acrylic Solid Color Stain	Woodbriar (SW3035)
C	PAINT WOOD SURFACE	Sherwin Williams Pro Industrial Zero VOC Acrylic	Tricorn Black (SW6258)
D	PAINT METAL GUSSET PLATE	Sherwin Williams Pro Industrial Zero VOC Acrylic	Butter Up (SW 6681)



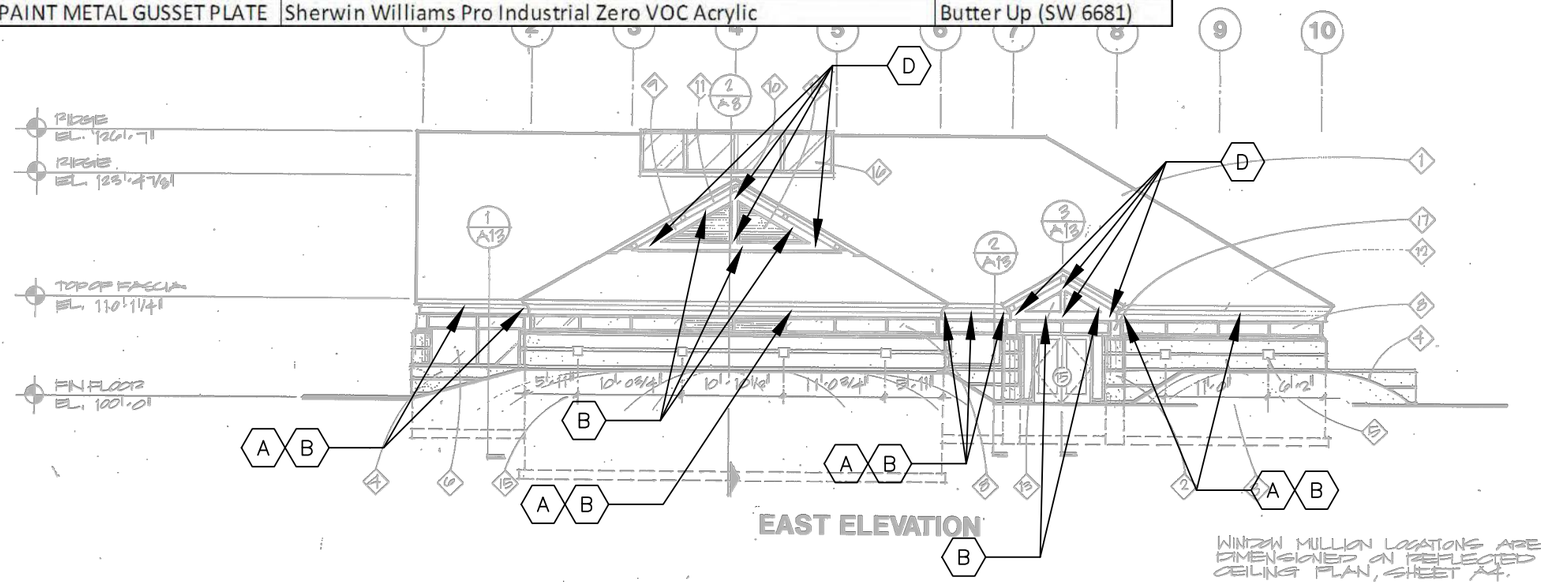


LEGEND

- A — REMOVE & REINSTALL GUTTER
- B — STAIN WOOD SURFACE
- C — PAINT WOOD SURFACE
- D — PAINT METAL GUSSET PLATE

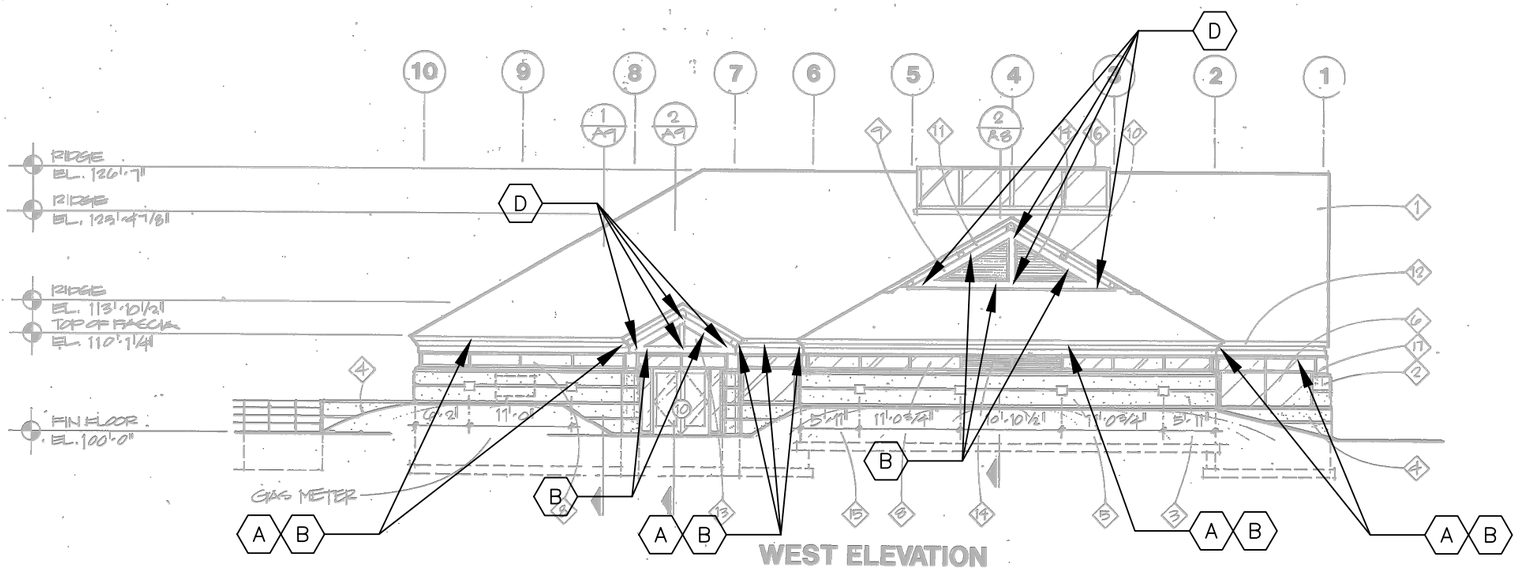
PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	PLAN: EXTERIOR PAINTING PLAN	SHEET 13 E

PAINTING SCHEDULE			
LEGEND	DESCRIPTION	COATING SYSTEM	COLOR
B	STAIN WOOD SURFACE	Sherwin Williams Woodscapes Exterior Acrylic Solid Color Stain	Woodbriar (SW3035)
C	PAINT WOOD SURFACE	Sherwin Williams Pro Industrial Zero VOC Acrylic	Tricorn Black (SW6258)
D	PAINT METAL GUSSET PLATE	Sherwin Williams Pro Industrial Zero VOC Acrylic	Butter Up (SW 6681)



EAST ELEVATION

WINDOW MULLION LOCATIONS ARE DIMENSIONED ON REFLECTED CEILING PLAN, SHEET A4.



WEST ELEVATION

NOTES TO DRAWING

1. ASPHALT SHINGLE ROOFING.
2. CONCRETE COLUMNS WITH REVEALS.
3. CONCRETE WALL WITH REVEALS - SEE WALL SECTIONS.
4. CONCRETE RETAINING WALL WITH REVEALS. SEE SHEET A20.
5. DECORATIVE STONE TRIM INSERT - SEE DETAIL 5/A20.
6. 1" COATED INSULATING GLASS IN BLACK ANODISED ALUMINUM FRAMES.
7. 1" COATED INSULATING GLASS IN BLACK ANODISED ALUMINUM CURTAIN WALL FRAME.
8. 1" COATED OBSCURING INSULATING GLASS IN BLACK ANODISED ALUMINUM FRAMES.
9. STRUCTURAL GLUED-LAMINATED TRUSS.
10. END OF EXPOSED GLUED-LAMINATED PURLIN.
11. INFILL CONDITION BETWEEN EACH PURLIN. SEE DETAIL 6/A19.
12. CEDAR FASCIAS AND FRIEZE BOARDS.
13. SOLID DECKING APPLIED HORIZONTALLY TO WALL.
14. PREFINISHED BLACK HVAC LOUVERS. (SEE DIVISION 15.)
15. EARTH BERM. (SEE SECTION 02200.)
16. SKYLIGHT. SEE DETAILS 8 & 9/A18 AND 7/A19.
17. TILE CLAD MASONRY COLUMN CAPITALS.

LEGEND

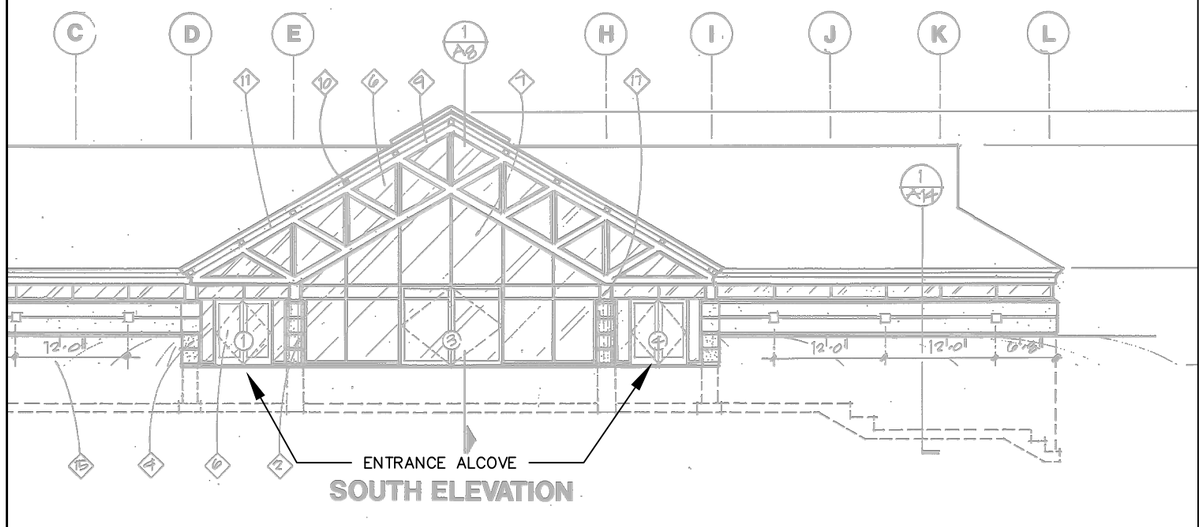
- A — REMOVE & REINSTALL GUTTER
- B — STAIN WOOD SURFACE
- C — PAINT WOOD SURFACE
- D — PAINT METAL GUSSET PLATE

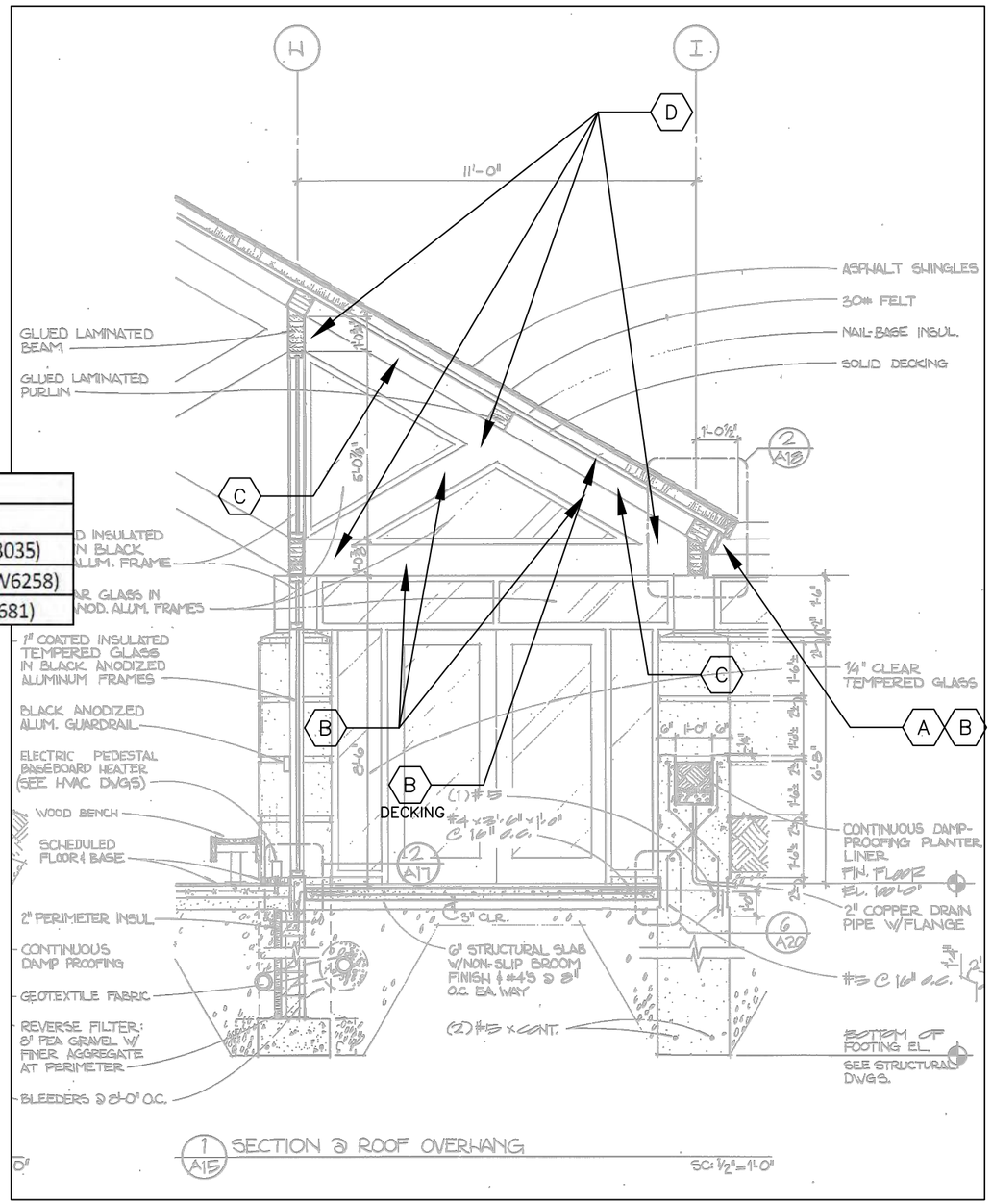
PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	PLAN: EXTERIOR PAINTING PLAN	SHEET 14 E

LEGEND

- A — REMOVE & REINSTALL GUTTER
- B — STAIN WOOD SURFACE
- C — PAINT WOOD SURFACE
- D — PAINT METAL GUSSET PLATE

PAINTING SCHEDULE			
LEGEND	DESCRIPTION	COATING SYSTEM	COLOR
B	STAIN WOOD SURFACE	Sherwin Williams Woodscapes Exterior Acrylic Solid Color Stain	Woodbriar (SW3035)
C	PAINT WOOD SURFACE	Sherwin Williams Pro Industrial Zero VOC Acrylic	Tricorn Black (SW6258)
D	PAINT METAL GUSSET PLATE	Sherwin Williams Pro Industrial Zero VOC Acrylic	Butter Up (SW 6681)





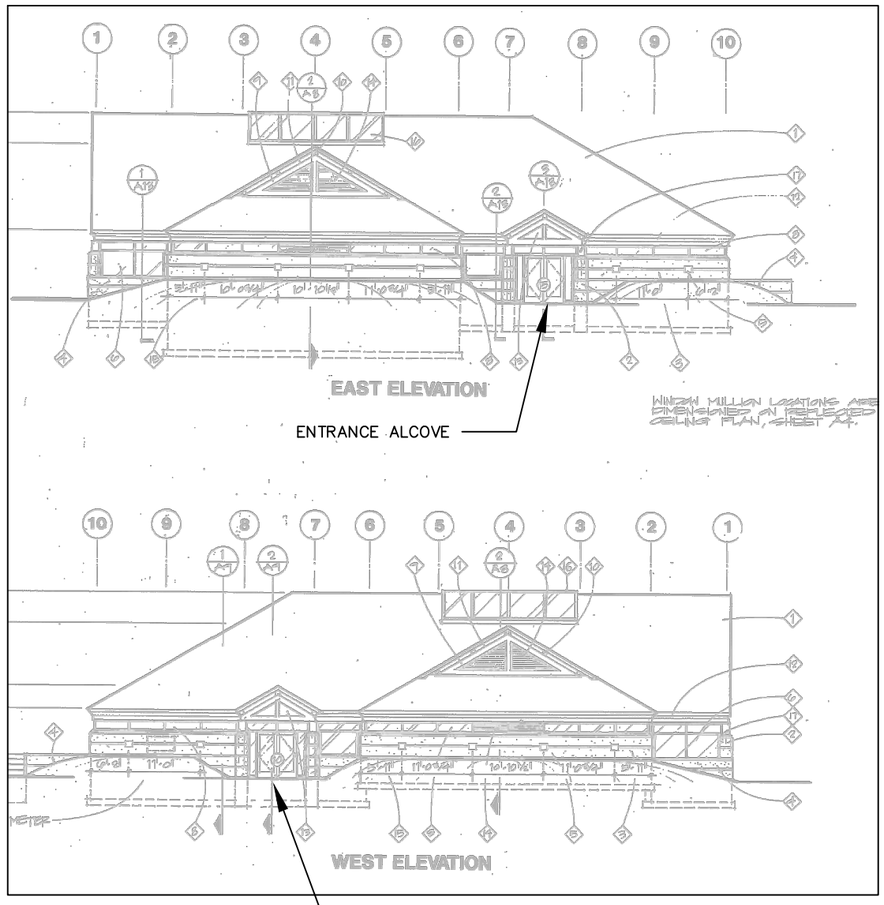
ENTRANCE ALCOVE
(TYPICAL RT & LT)

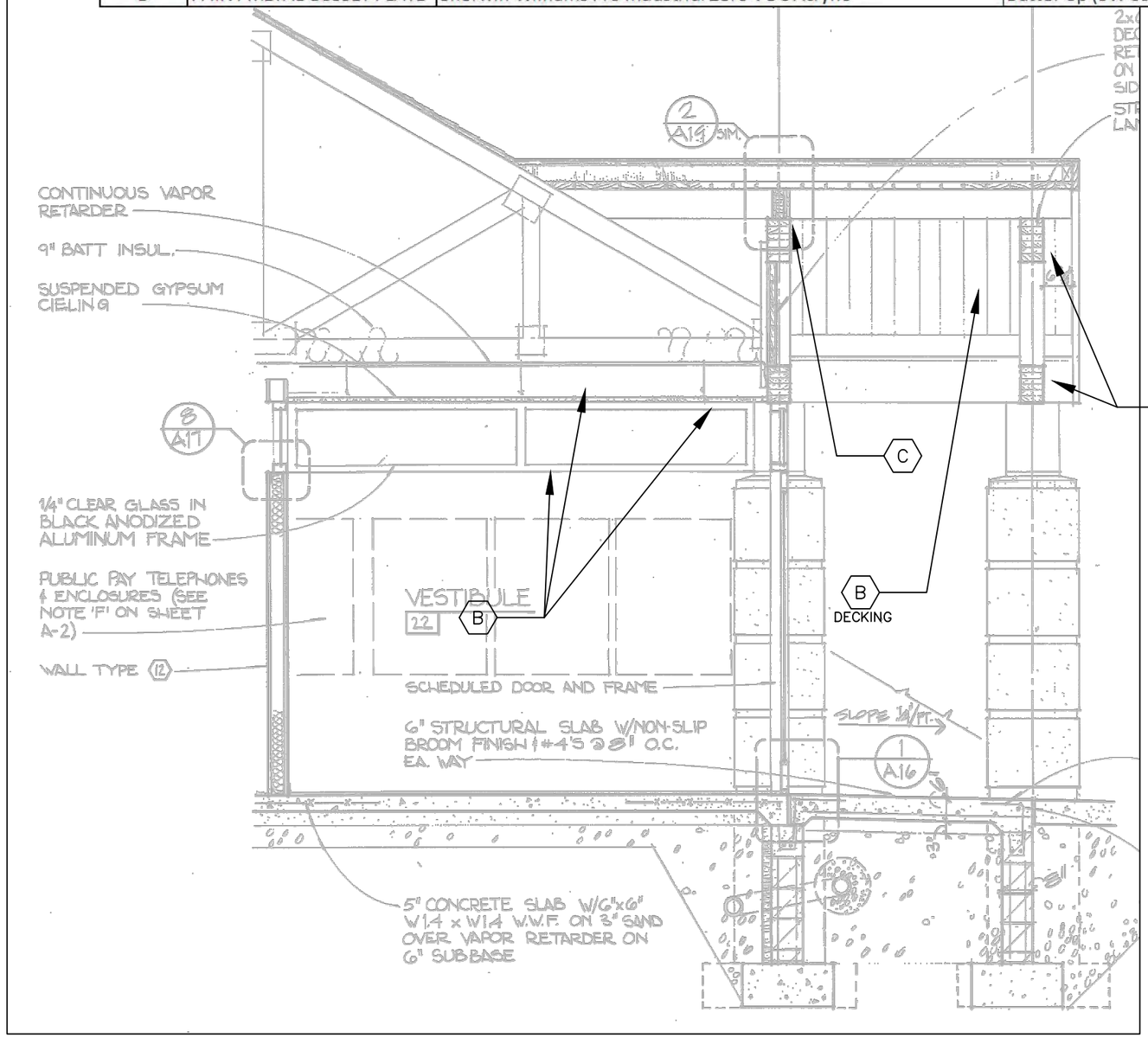
PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	PLAN: EXTERIOR PAINTING PLAN	SHEET 15 E

LEGEND

- A — REMOVE & REINSTALL GUTTER
- B — STAIN WOOD SURFACE
- C — PAINT WOOD SURFACE
- D — PAINT METAL GUSSET PLATE

PAINTING SCHEDULE			
LEGEND	DESCRIPTION	COATING SYSTEM	COLOR
B	STAIN WOOD SURFACE	Sherwin Williams Woodscapes Exterior Acrylic Solid Color Stain	Woodbriar (SW3035)
C	PAINT WOOD SURFACE	Sherwin Williams Pro Industrial Zero VOC Acrylic	Tricorn Black (SW6258)
D	PAINT METAL GUSSET PLATE	Sherwin Williams Pro Industrial Zero VOC Acrylic	Butter Up (SW 6681)





ENTRANCE ALCOVE
(TYPICAL EAST & WEST)

PROJECT NO:1030-31-72	HWY:REST AREA 26	COUNTY:KENOSHA	PLAN: EXTERIOR PAINTING PLAN	SHEET 16 E

WALKWAY LIGHTING

		629.0210	631.0300	631.1000	652.0210	652.0700.S	654.0111	655.0615	SPV.0060.03	
		FERTILIZER TYPE B	SOD WATER	SOD LAWN	CONDUIT RIGID NONMETALIC SCHEDULE 40 1-INCH	INSTALL CONDUIT INTO EXISTING ITEM	CONCRETE BASES TYPE 11	ELECTRIC WIRE LIGHTING 10 AWG	LUMINAIRES DECORATIVE LED	
FROM	TO	CWT	MGAL	SY	LF	EACH	EACH	LF	EACH	NOTES
EX LGT	EX PULLBOX							294		Use ex. 1" PVC conduit
EX PULLBOX	WL 1	0.02	1	22	50	1	1	180	1	Core ex. pullbox for new conduit
WL 1	WL 2	0.02	1	25	60	---	1	210	1	
WL 2	WL 3	0.02	1	29	70	---	1	240	1	
	TOTALS	0.06	3	76	180	1	3	924	3	

Utility Contacts

1 Mr. Dan Sande, Project Manager
We Energies (Electric)
333 W. Everett St - A299
Milwaukee, WI 53203
Phone: (414) 221-4578
Fax: (414) 221-2336
dan.sande@we-energies.com

1220 Mr Richard Trgovec, OSP Engineer
Midwest Fiber Networks
3701 W. Burnham Street, STE C
Milwaukee, WI 53215
Phone: (414) 672-5612
Fax: (414) 226-2269
rtrgovec@midwestfibernetworks.com

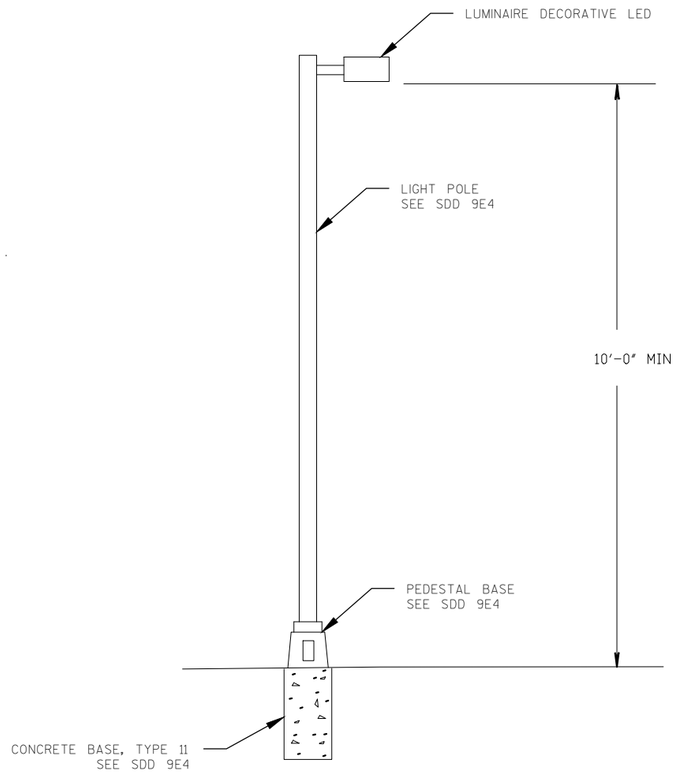
31 Mr. Jeff Madson
WisDOT STOC
433 W St. Paul Ave., STE 300
Milwaukee, WI 53203 3007
Phone: (414) 225-3723
jeffrey.madson@dot.wi.gov

1383 Mr. Chad Merrill, Detailer
Frontier - Wisconsin
222 Kenosha Street
Walworth, WI 53184
Phone: (262) 275-2113
Fax: (262) 275-1250
chad.m.merrill@ftr.com

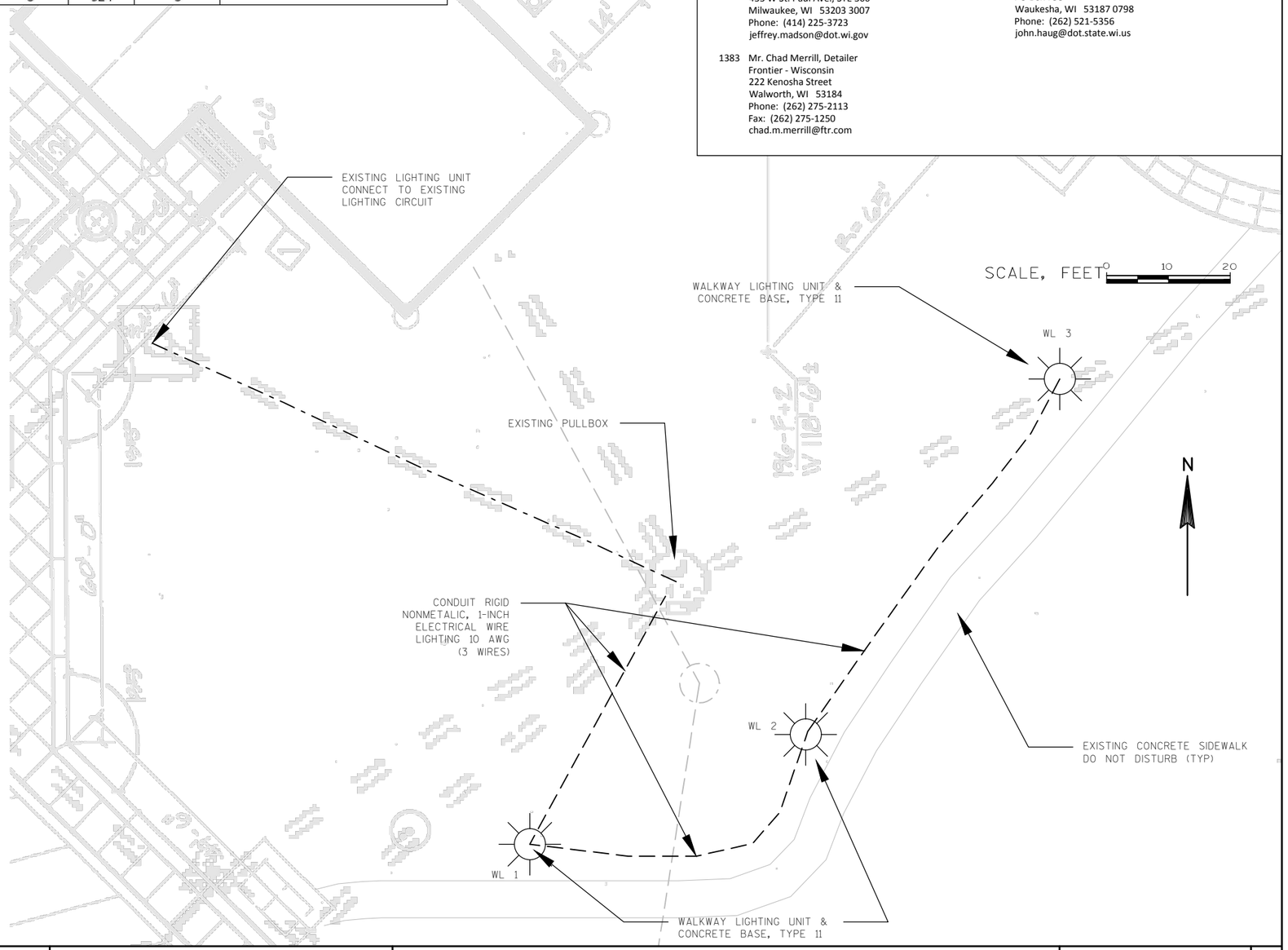
154 Mr. Matt Pfeifer, SE Region Lighting Engineer
WisDOT Traffic Lighting
141 NW Barstow St.
Waukesha, WI 53187 0798
Phone: (262) 548-8778
matthew.pfeifer@dot.wi.gov

195 Mr. Dan Sande, Project Manager
We Energies (Gas Operations)
333 W. Everett St - A299
Milwaukee, WI 53203
Phone: (414) 221-4578
Fax: (414) 221-2336
dan.sande@we-energies.com

1141 Mr. John Haug, Traffic Engineering Supervisor
WisDOT Signals
141 NW Barstow
PO Box 798
Waukesha, WI 53187 0798
Phone: (262) 521-5356
john.haug@dot.state.wi.us



WALKWAY LIGHTING UNIT DETAIL



PROJECT NO: 1030-31-72	HWY: REST AREA 26	COUNTY: KENOSHA	PLAN: WALKWAY LIGHTING PLAN	SHEET 17	E

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

I-94

STATE LINE TO MILWAUKEE ROAD

WISCONSIN INFORMATION CENTER (BUILDING)

KENOSHA COUNTY

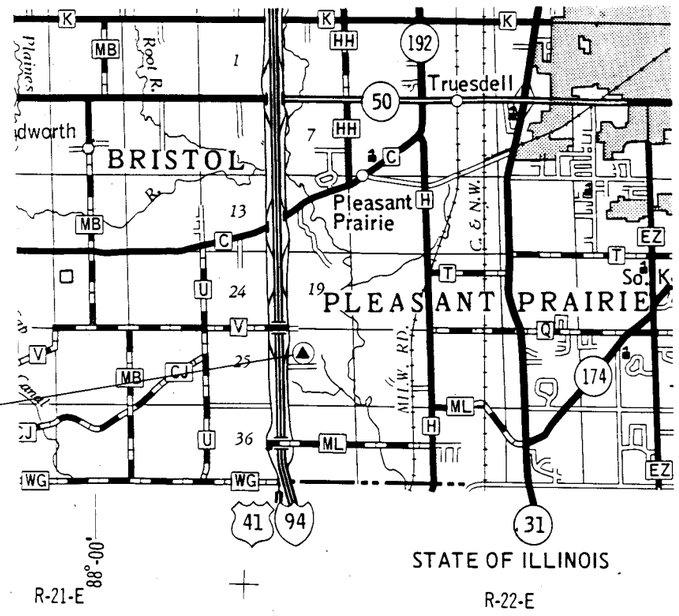
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1032-07-73	IR 94-6(64) 346	1

INDEX OF SHEETS

TOTAL SHEETS = 57

STATE PROJECT NUMBER

1032-07-73



BUILDING SITE

X = 552,820

Y = 197,200

DESIGN DESIGNATION

A.D.T.	=
A.D.T.	=
D.H.V.	=
D.	=
T.	=
V.	=

CONVENTIONAL SIGNS

COUNTY LINE		COMBUSTIBLE FLUIDS (UNDER PRESSURE)	CAUTION
CORPORATE LIMITS		UNDERGROUND UTILITIES GAS	G
PROPERTY LINE		ELECTRIC	E
LOT LINE		TELEPHONE	T
LIMITED HIGHWAY EASEMENT		SERVICE PEDESTAL	
EXISTING RIGHT OF WAY		CABLE MARKER	P
NEW RIGHT OF WAY		POWER POLE	
REFERENCE LINE		TELEPHONE POLE	
SLOPE INTERCEPT		RAILROADS	
ORIGINAL GROUND		MARSH	
MARSH OR ROCK PROFILE		WOODED AREA	
CULVERT IN PLACE			
CULVERT REQUIRED			
CULVERT REQUIRED (Profile)			

LAYOUT

SCALE 0 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.00 MI.

INDEX TO DRAWINGS

SITE PLANS

SITE UTILITIES

ARCHITECTURAL

STRUCTURAL

HVAC

PLUMBING

ELECTRICAL

REFERENCE DRAWINGS FROM ORIGINAL CONSTRUCTION

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

ALL COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN GRID COORDINATE SYSTEM, SOUTH ZONE.

ORIGINAL PLANS PREPARED BY:

PSI DESIGN/ ARCHITECTS

BIG BEND, WISCONSIN

WISCONSIN DANIEL P. CHRISTIANSEN 3867 WAUWATOSA, WI ARCHITECT 3.15.90

March 15, 1990

DATE SIGNATURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Surveyor _____ District Checker _____

Designer _____ C.O. Plan Examiner _____

District Supervisor _____ C.O. Coordinator _____

APPROVED:

DATE: 3/28/90 Paul J. Christianson for CHIEF UTILITIES ENGINEER

APPROVED:

DATE: 3/20/90 Robert W. Berg for STATE DESIGN ENGINEER FOR HWYS.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 5 WISCONSIN DIVISION

APPROVED:

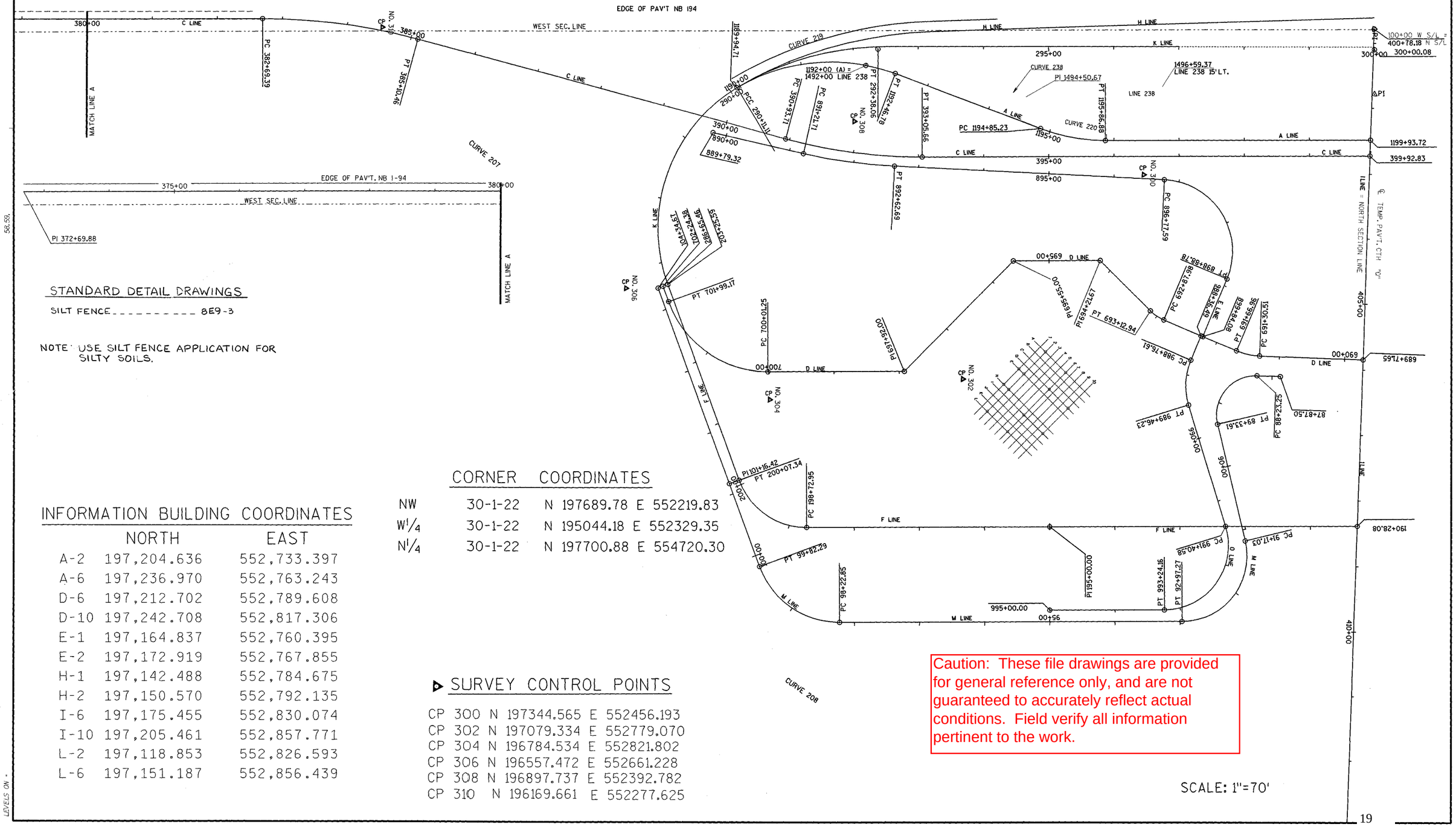
DATE: _____ _____ DIVISION ADMINISTRATOR

WISDOT VEHICLE NO. 10

1032-7-73 Kenosha

May

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2
WISCONSIN INFORMATION CENTER LINE LAYOUT	SP-1
I-94 KENOSHA CO.	



STANDARD DETAIL DRAWINGS

SILT FENCE ---------- 8E9-3

NOTE: USE SILT FENCE APPLICATION FOR SILTY SOILS.

INFORMATION BUILDING COORDINATES

	NORTH	EAST
A-2	197,204.636	552,733.397
A-6	197,236.970	552,763.243
D-6	197,212.702	552,789.608
D-10	197,242.708	552,817.306
E-1	197,164.837	552,760.395
E-2	197,172.919	552,767.855
H-1	197,142.488	552,784.675
H-2	197,150.570	552,792.135
I-6	197,175.455	552,830.074
I-10	197,205.461	552,857.771
L-2	197,118.853	552,826.593
L-6	197,151.187	552,856.439

CORNER COORDINATES

NW	30-1-22	N 197689.78 E 552219.83
W1/4	30-1-22	N 195044.18 E 552329.35
N1/4	30-1-22	N 197700.88 E 554720.30

▷ SURVEY CONTROL POINTS

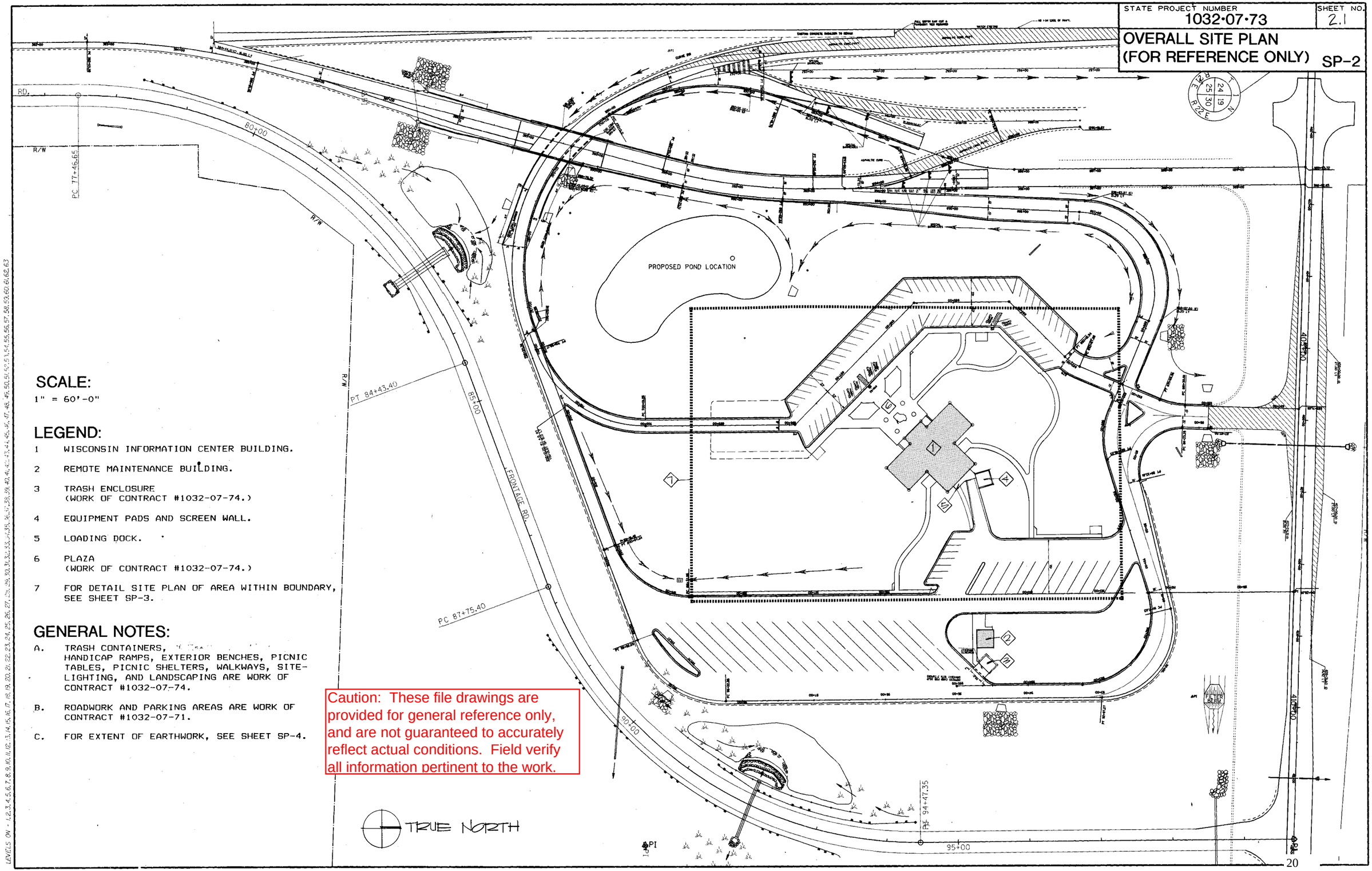
CP 300 N 197344.565 E 552456.193
CP 302 N 197079.334 E 552779.070
CP 304 N 196784.534 E 552821.802
CP 306 N 196557.472 E 552661.228
CP 308 N 196897.737 E 552392.782
CP 310 N 196169.661 E 552277.625

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

SCALE: 1"=70'

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.1

OVERALL SITE PLAN (FOR REFERENCE ONLY) SP-2



SCALE:

1" = 60'-0"

LEGEND:

1 WISCONSIN INFORMATION CENTER BUILDING.

2 REMOTE MAINTENANCE BUILDING.

3 TRASH ENCLOSURE
(WORK OF CONTRACT #1032-07-74.)

4 EQUIPMENT PADS AND SCREEN WALL.

5 LOADING DOCK.

6 PLAZA
(WORK OF CONTRACT #1032-07-74.)

7 FOR DETAIL SITE PLAN OF AREA WITHIN BOUNDARY, SEE SHEET SP-3.

GENERAL NOTES:

A. TRASH CONTAINERS, HANDICAP RAMPS, EXTERIOR BENCHES, PICNIC TABLES, PICNIC SHELTERS, WALKWAYS, SITE-LIGHTING, AND LANDSCAPING ARE WORK OF CONTRACT #1032-07-74.

B. ROADWORK AND PARKING AREAS ARE WORK OF CONTRACT #1032-07-71.

C. FOR EXTENT OF EARTHWORK, SEE SHEET SP-4.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER
1032-07-73

SHEET NO.
2.2

DETAIL SITE PLAN
(FOR REFERENCE ONLY) SP-3

SCALE

1" = 20'-0"

TRUE NORTH

LEGEND

1 SHADED AREAS INDICATE STRUCTURAL STOOP SLABS, WORK OF THIS CONTRACT, #1032-07-73.

2 PLAZA
(WORK OF CONTRACT #1032-07-74.)

3 LOADING DOCK.

4 EQUIPMENT PADS AND SCREEN WALL.

5 HANDICAP SIGN.
(WORK OF CONTRACT #1032-07-71.)

6 CURB CUT AND RAMP (1:12) WITH BROOMED FINISH CONCRETE.

GENERAL NOTES

A. TRASH CONTAINERS, HANDICAP RAMPS, EXTERIOR BENCHES, PICNIC TABLES, PICNIC SHELTERS, WALKWAYS, SITE-LIGHTING, AND LANDSCAPING ARE WORK OF CONTRACT #1032-07-74.

B. ROADWORK AND PARKING AREAS ARE WORK OF CONTRACT #1032-07-71.

C. FOR EXTENT OF EARTHWORK, SEE SHEET SP-4.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

PLOT SCALE:
PLOT NAME:
REV. DATE: 4/10/90
ORIGINATOR:
LEVELS ON
FILE NAME: HDGN:

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.3

SITE GRADING PLAN

SP-4

CONTOURS:

(100) ..... CONTOURS OF UNDISTURBED SOIL.

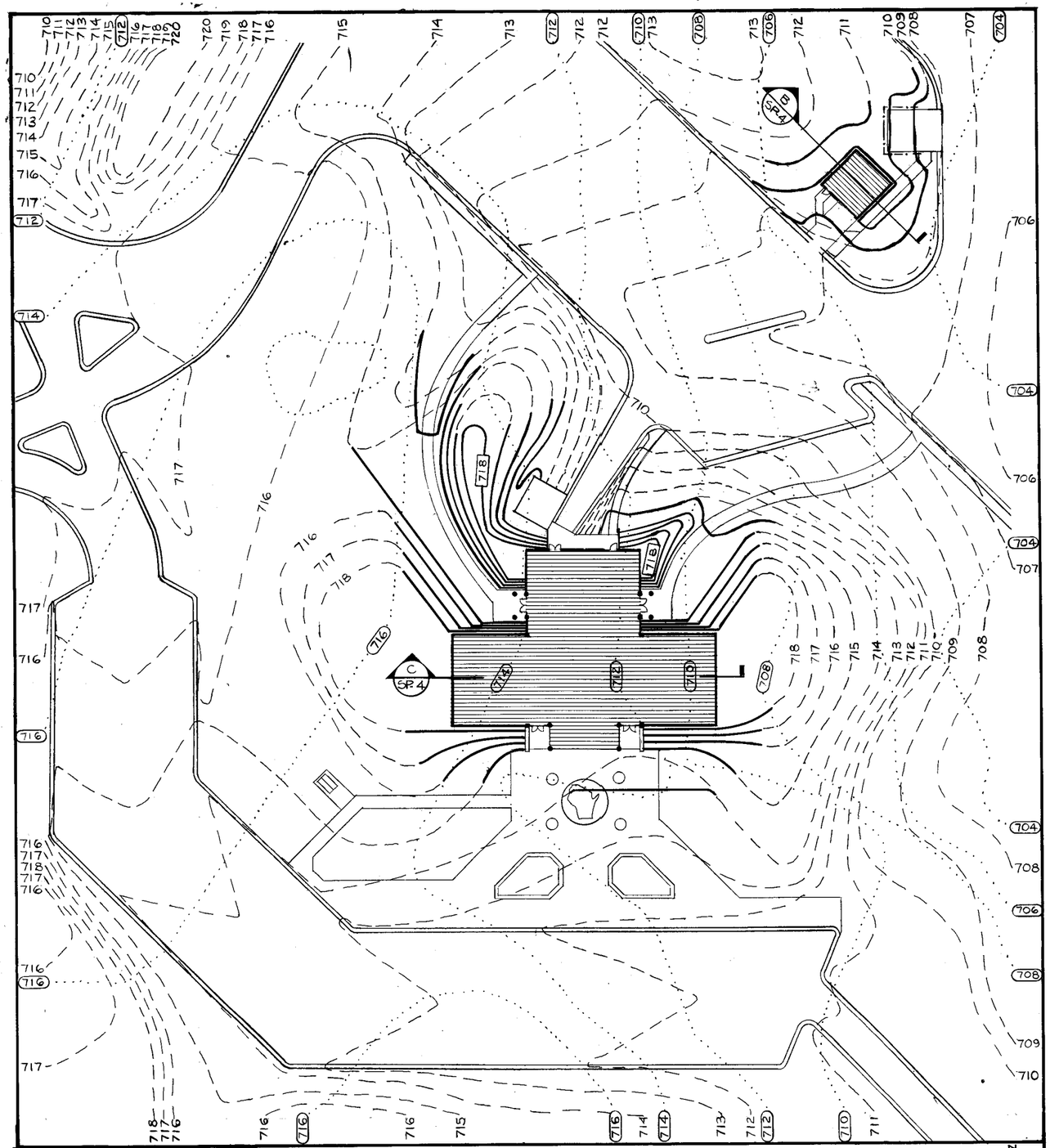
100 — — — — — CONTOURS OF GRADING WORK AS OF COMPLETION OF ROAD WORK CONTRACT, # 1032-07-71. SEE ALSO NOTE (3).

100 ——— PROPOSED CONTOURS AS OF COMPLETION OF THIS CONTRACT, # 1032-07-73.

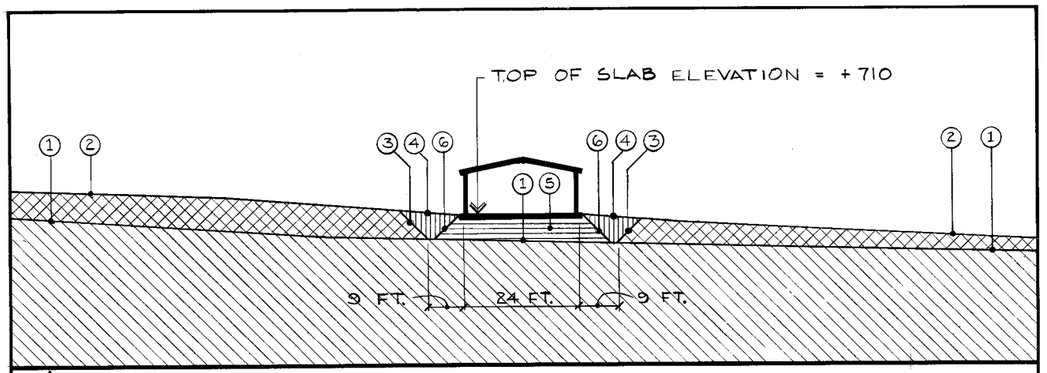
NOTES:

1. UNDISTURBED SOIL.
2. GRADES AS OF COMPLETION OF ROAD WORK CONTRACT, #1032-07-71.
3. ONE IN ONE SLOPE AROUND ENTIRE PERIMETER OF BUILDING. (THIS IS NOT INDICATED ON GRADING PLAN FOR REASON OF GRAPHIC CLARITY.)
4. BACKFILL: WORK OF THIS CONTRACT, #1032-07-73.
5. ENGINEERED FILL: WORK OF THIS CONTRACT, #1032-07-73.
6. PROVIDE SLOPE OF ONE TO ONE FOR ENGINEERED FILL AT ENTIRE FOUNDATION PERIMETER.
7. SEE DETAIL 7/A20 FOR DRAIN TILE WORK

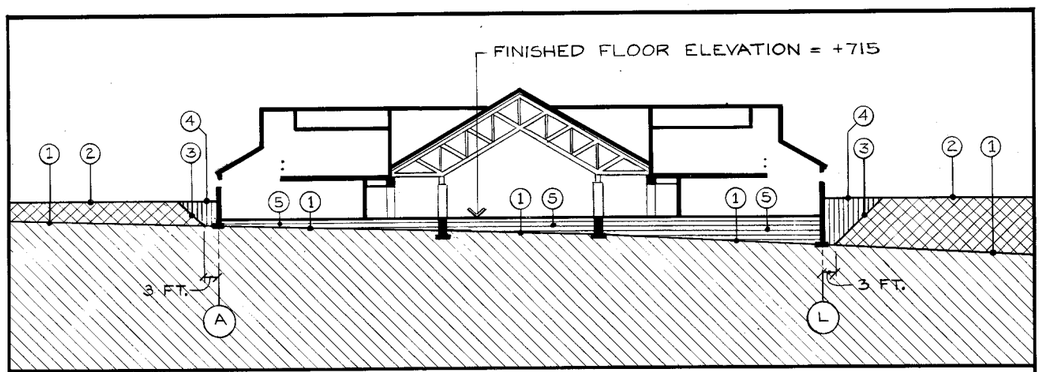
A SP.4 KEY



1 SP.4



B SP.4 EARTHWORK SECTION DIAGRAM
REMOTE MAINTENANCE BUILDING



C SP.4 EARTHWORK SECTION DIAGRAM
WISCONSIN INFORMATION CENTER BUILDING

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER 1032-7-73
SHEET NO. 2.4

SITE PLAN

U-1

WISCONSIN
JOSEPH E DU CHATEAU
E-6682
MILWAUKEE WIS
3-13-90

RING & DuCHATEAU, INC.
2900 North 117th Street
MILWAUKEE, WISCONSIN 53222
(414) 778-1700 FAX (414) 778-2360

PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR:

FILE NAME: PDGN:

INTERIOR WALL TYPES

(1) 3/8" CERAMIC WALL TILE THIN-SET ON ONE LAYER OF 1/2" TILE BACKER BOARD ON 3-5/8" GALVANIZED STEEL STUD FURRING 16" O.C. AND 3" EXTRUDED POLYSTYRENE BOARD INSULATION WITH VAPOR RETARDER INSTALLED ON THE INTERIOR SIDE OF THE STUDS.

(EXTEND WALL UP TO WINDOW SILL CONDITION 7'-0" A.F.F. AS INDICATED AT DETAIL 5/A17.)

(2) ONE LAYER OF 5/8" TYPE "X" GYPSUM BOARD ON 6" METAL STUD FURRING AT 2'-0" O.C. WITH 2" SPACE BETWEEN CONCRETE WALL AND STUDS AND 3" EXTRUDED POLYSTYRENE BOARD INSULATION WITH VAPOR RETARDER INSTALLED ON THE INTERIOR SIDE OF THE STUDS. TOTAL FURRING THICKNESS TO BE 8-5/8".

(EXTEND WALL UP TO WINDOW SILL CONDITION 7'-0" A.F.F. SIMILAR TO DETAIL 6/A17.)

(3) ONE LAYER OF 5/8" TYPE "X" GYPSUM BOARD ON 3-5/8" METAL STUD FURRING 2'-0" O.C. AND 3" EXTRUDED POLYSTYRENE BOARD INSULATION WITH VAPOR RETARDER INSTALLED ON THE INTERIOR SIDE OF THE STUDS.

(EXTEND WALL UP TO 7'-0" A.F.F. AS INDICATED AT DETAIL 6/A17.)

(4) 4-7/8" THICK WALL CONSTRUCTED OF ONE LAYER OF 5/8" GYPSUM BOARD ON ONE SIDE OF 3-5/8" METAL STUDS AT 2'-0" O.C. AND PLASTIC LAMINATE ON 1/2" PARTICLE BOARD ON OTHER SIDE.

(EXTEND WALL UP TO 8'-6" A.F.F. WITH WALL CAP AS INDICATED AT DETAIL 7/A24.)

(5) 5-1/4" THICK WALL CONSTRUCTED OF 3/8" CERAMIC WALL TILE THIN-SET ON ONE LAYER OF 1/2" TILE BACKER BOARD AT TOILET ROOM SIDE OF 3-5/8" METAL STUDS 1'-4" O.C AND 5/8" GYPSUM BOARD ON OTHER SIDE. INSTALL 2" ACOUSTICAL BATT INSULATION.

(EXTEND WALL UP TO 7'-0" A.F.F. AS INDICATED AT DETAIL 7/A17.)

(6) 5-1/4" THICK WALL CONSTRUCTED OF 3/8" CERAMIC WALL TILE THIN SET ON ONE LAYER OF 1/2" TILE BACKER BOARD AT TOILET ROOM SIDE OF 3-5/8" METAL STUDS 1'-4" O.C AND 5/8" GYPSUM BOARD ON OTHER SIDE. INSTALL 3-1/2" FIBERGLASS BATT INSULATION WITH VAPOR RETARDER ON INTERIOR SIDE OF THE STUDS.

(EXTEND WALL UP TO WINDOW SILL CONDITION 7'-0" A.F.F. SIMILAR TO DETAIL 7/A17.)

(7) 1'-2-3/4" THICK WALL CONSTRUCTED OF 3/8" CERAMIC WALL TILE THIN-SET ON ONE LAYER OF 1/2" TILE BACKER BOARD, ON TOILET ROOM SIDE, OVER TWO ROWS OF STAGGERED METAL STUDS 16" O.C. WITH 5/8" WATER-RESISTANT GYPSUM BOARD ON THE OTHER SIDE. TILE BACKER BOARD IS TO BE HELD FLUSH WITH THE FACE OF ADJACENT CONCRETE COLUMNS SO THAT THE TILE MAY BE LAID ON A CONTINUOUSLY FLAT SURFACE. INSTALL 2" ACOUSTICAL BATT INSULATION. SEE DETAIL 4/A21.

(EXTEND WALL UP TO 7'-0" ABOVE FINISHED FLOOR AS INDICATED ON DETAIL 4/A17.)

(8) 8-3/8" THICK WALL CONSTRUCTED OF 3/8" CERAMIC WALL TILE THIN SET ON EACH SIDE OF AN 8" NOMINAL (7-5/8") C.M.U. WALL.

(EXTEND WALL UP TO 7'-0" A.F.F. AS INDICATED AT DETAIL 8/A20.)

(9) 8" THICK WALL CONSTRUCTED OF VENEER PLASTER AND 3/8" CERAMIC WALL TILE THIN SET ON ONE SIDE OF AN 8" NOMINAL (7-5/8") C.M.U. WALL. REINFORCE AS INDICATED ON STRUCTURAL DRAWINGS.

(EXTEND WALL TO UP TO 17'-0" A.F.F. AS INDICATED AT DETAIL 1/A14.)

(10) ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE OF 3-5/8" METAL STUDS 2'-0" O.C. WITH 2" ACOUSTICAL BATT INSULATION.

(EXTEND WALL UP TO WITHIN 1" OF BOTTOM CHORD OF TRUSS AS INDICATED AT DETAIL 3/A9. LAY ACOUSTICAL BATT ON CEILING FOR 3'-0" EACH SIDE OF WALL.)

(11) ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE OF 3-5/8" METAL STUDS AT 2'-0" O.C.

(EXTEND WALL UP TO WITHIN 1" OF BOTTOM CHORD OF TRUSS AS INDICATED AT DETAIL 3/A9.)

(12) ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE OF 3-5/8" METAL STUDS 2'-0" O.C. AND 3-1/2" THERMAL BATT INSULATION WITH VAPOR RETARDER INSTALLED ON THE INTERIOR SIDE OF THE STUDS.

(EXTEND WALL UP TO 7'-0" A.F.F. FOR SILL OF WINDOW AS INDICATED AT DETAIL 8/A17.)

(13) TWO LAYERS OF 5/8" TYPE "X" GYPSUM BOARD EACH SIDE OF 3-5/8" METAL STUDS AT 2'-0" O.C. (2-HR. WALL CONSTRUCTION).

(14) 5-1/8" THICK WALL CONSTRUCTED OF ONE LAYER OF 5/8" GYPSUM BOARD ON STORAGE ROOM SIDE OF 3-5/8" METAL STUDS 16" O.C. AND 3/8" CERAMIC WALL TILE THIN-SET ON ONE LAYER OF 1/2" TILE BACKER BOARD ON OTHER SIDE. INSTALL 2" ACOUSTICAL BATT INSULATION. (REFER TO DETAIL 4/A18 FOR EXTENT OF WALL TILE, BACKER BOARD, AND DETAIL AT CEILING.)

(15) 8" THICK WALL CONSTRUCTED OF 6" NOMINAL (5-5/8") C.M.U. WITH 2X FURRING INSTALLED FLAT 1'-4" O.C. (BY SECTION 06100) WITH PLASTIC LAMINATE CLAD 3/4" PARTICLE BOARD (BY SECTION 06400). SEE DETAILS ON SHEET A-26.

(16) 2' THICK WALL/COLUMN CONSTRUCTED OF PLASTIC LAMINATE CLAD PARTICLE BOARD (BY SECTION 06400) OVER 3-5/8" METAL STUDS (BY SECTION 09250). SEE DETAILS ON SHEET A-26.

GENERAL NOTES

1. INDICATED DRAWING SCALES APPLY ONLY TO SETS OF DRAWINGS WHICH ARE REPRODUCED AT FULL SIZE. IF THE FORMAT SIZE OF THIS SET OF DRAWINGS IS 34" X 22", IT IS A FULL SIZE REPRODUCTION. IF THE FORMAT SIZE IS 17" X 11", IT IS A HALF SIZE REPRODUCTION.
2. COORDINATE WORK OF THIS CONTRACT WITH WORK OF CONTRACTS 1032-07-71 AND 1032-07-74 AS REQUIRED.
3. FOR ALL CONCRETE AND CONCRETE MASONRY WORK, REFER TO S-DRAWINGS FOR INDICATION OF REQUIRED REINFORCING STEEL.
4. ALL CONTRACTOR'S THAT ARE INSTALLING WORK WHICH IS PREFINISHED, SHALL BE REQUIRED TO PERFORM TOUCH-UP WORK, AS REQUIRED BY ARCHITECT, TO RESTORE WORK DAMAGED BY DELIVERY OR INSTALLATION.
5. ALL STRUCTURAL MEMBERS ABOVE GLASS IN ALUMINUM FRAMES SHALL BE ENGINEERED BY SUPPLIER TO LIMIT DEFLECTIONS TO 1/4" AT MIDSPAN.
6. ALUMINUM CURTAINWALL FRAMING SHALL BE INSTALLED WITH THE HEAD JOINT SIZED TO ALLOW FOR DEFLECTIONS OF THE STRUCTURAL TRUSS ABOVE OF 1/4" AT MIDSPAN AS WELL AS THERMAL EXPANSION OF THE FRAMES.
7. AS INDICATED ON DRAWINGS, PERIMETER STRUCTURAL GLUED LAMINATED TRUSSES ARE BOTH THE INTERNAL AND EXTERNAL COMPONENT OF THE BUILDING ENVELOPE. THEY PROVIDE RESISTANCE TO THERMAL TRANSFER AS WELL AS TO AIR AND MOISTURE INFILTRATION. SECTION 06170 CONTRACTOR SHALL CREATE JOINTS BETWEEN MEMBERS WHICH ARE ACCEPTABLE TO SECTION 07900 CONTRACTOR FOR SEALING, ESPECIALLY AT STEEL CONNECTORS.

BUILDING CODE INFORMATION

GOVERNING CODES:

WISCONSIN ADMINISTRATION CODE, DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS, 1989 EDITION.

OCCUPANCY:

CHAPTER ILHR 54

NUMBER OF STORIES:

ONE PLUS MECHANICAL EQUIPMENT MEZZANINES

AREA:

8,792 SQ. FT.

CONSTRUCTION TYPE:

WOOD FRAME UNPROTECTED (NO. 8)

BUILDING ELEMENTS	FIRE RESISTIVE CONSTRUCTION AS REQUIRED BY CODE
COLUMNS	0 HR.
FLOOR FRAMING	0 HR.
ROOF FRAMING	0 HR.
BEARING WALLS	0 HR.
PARTITIONS	0 HR.

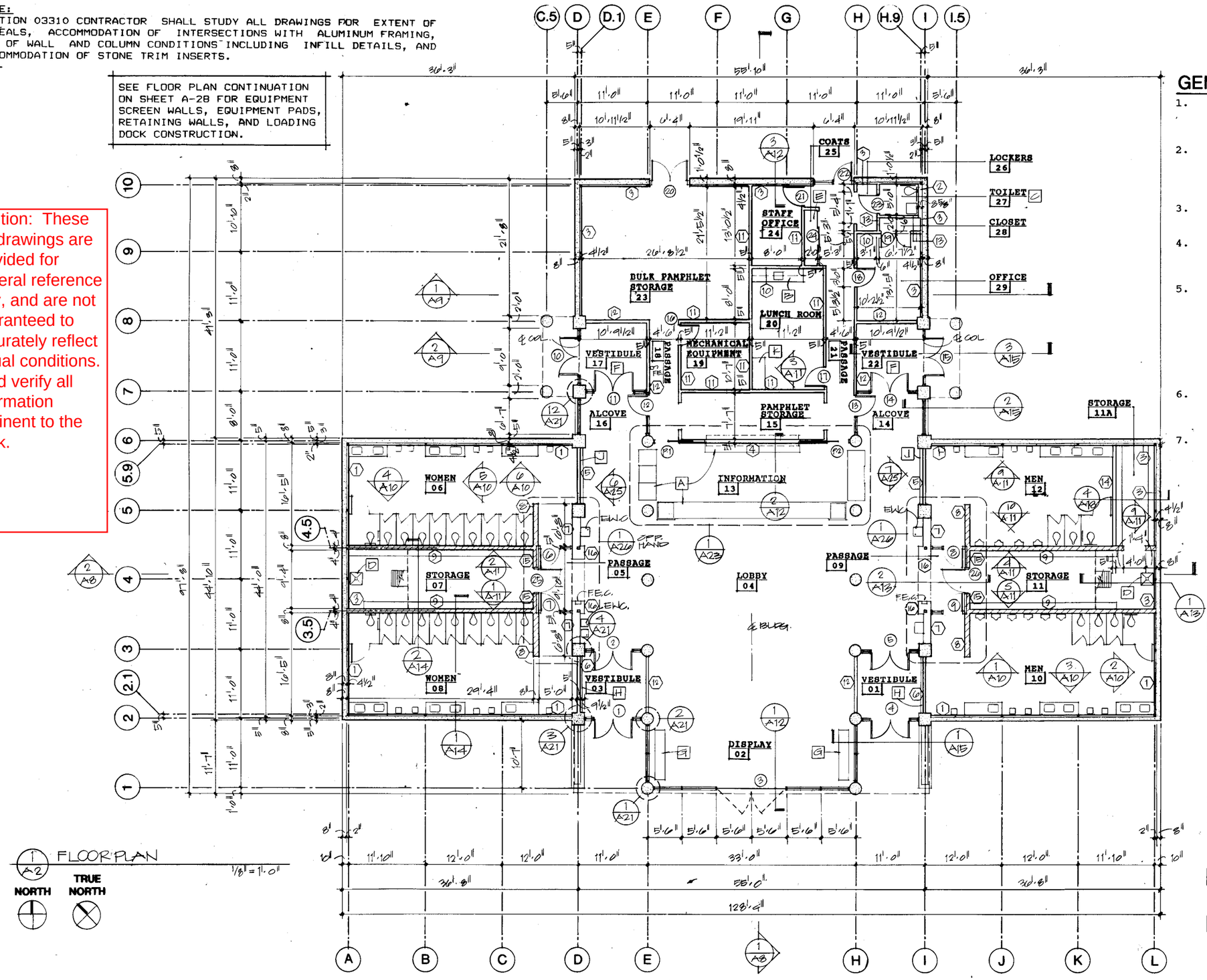
THIS BUILDING WILL NOT BE SPRINKLERED.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

NOTE:
SECTION 03310 CONTRACTOR SHALL STUDY ALL DRAWINGS FOR EXTENT OF REVEALS, ACCOMMODATION OF INTERSECTIONS WITH ALUMINUM FRAMING, TOP OF WALL AND COLUMN CONDITIONS INCLUDING INFILL DETAILS, AND ACCOMMODATION OF STONE TRIM INSERTS.

SEE FLOOR PLAN CONTINUATION ON SHEET A-28 FOR EQUIPMENT SCREEN WALLS, EQUIPMENT PADS, RETAINING WALLS, AND LOADING DOCK CONSTRUCTION.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



1/A2 FLOOR PLAN
1/8" = 1'-0"
NORTH
TRUE NORTH

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.6
FLOOR PLAN	A-2

GENERAL NOTES

1. FINISH FLOOR ELEVATION:
SITE DATUM.....715'-0"
ARCHITECTURAL AND STRUCTURAL DATUM....100'-0"

2. PLANS FOR MECHANICAL MEZZANINES:
MEZZANINES WHICH OCCUR ABOVE STORAGE ROOMS #07 & #11, ARE INDICATED ON DRAWING SHEET A-3, "TILE PLAN, MEZZANINE PLANS."

3. FLOOR TILE LAYOUT, IS INDICATED ON DRAWING SHEET A-3, "TILE PLAN, MEZZANINE PLANS."

4. ROOM FINISHES, ARE SCHEDULED IN THE SPECIFICATIONS MANUAL AT THE END OF DIVISION 9.

5. DOOR TYPES, DESIGNATED BY NUMERALS IN CIRCLES, ARE SCHEDULED ON DRAWING SHEET A-5, "DOOR SCHEDULE." FRAME TYPES & DOOR TYPES, REFERENCED BY DOOR DESIGNATION, ARE ALSO SCHEDULED ON DRAWING SHEET A-5. HARDWARE SETS REFERENCED BY THE DOOR SCHEDULE CAN BE FOUND IN THE SPECIFICATIONS AT THE END OF SECTION 08710.

6. INTERIOR WALL TYPES, DESIGNATED BY NUMERALS IN HEXAGONS, ARE SCHEDULED ON DRAWING SHEET A-1, "GENERAL INFORMATION."

7. KEYED NOTES, DESIGNATED BY LETTERS IN SQUARES, ARE SCHEDULED HERE:

KEYED NOTES

A. DETAILS OF MILLWORK FOR INFORMATION DESK #13 IS ON DRAWING SHEET A-23, "INFORMATION DESK MILLWORK".

B. AN INTERIOR ELEVATION OF THE CABINETRY OF LUNCH ROOM #20 IS ON DRAWING SHEET A-9, "SERVICE WING CROSS SECTIONS".

C. INTERIOR ELEVATIONS OF TOILET ROOM #27 ARE ON DRAWING SHEET A-10, DETAIL 7, "INTERIOR ELEVATIONS."

D. SERVICE SINK (SEE PLUMBING DRAWINGS).

E. PROVIDE AND INSTALL CLOSET SHELF AND POLE PER SPECIFICATION SECTIONS 06200 & 06400 FOR FULL LENGTH OF COAT CLOSET #25.

F. GTE TELEPHONE OPERATIONS (608)-837-1814, SHALL PROVIDE AND INSTALL FIVE PUBLIC PAY TELEPHONES AND ENCLOSURES FOR EACH OF TWO VESTIBULES, #17 & #22. (THE TEN ENCLOSURES SHALL BE AS MANUFACTURED BY BENNER-NAWMAN INCORPORATED, MODEL BN6720 "SPEAKEASY", TYPE W-2.)

G. PROVIDE AND INSTALL TWO 8'-0" LONG BENCHES PER SPECIFICATION SECTION 12755.

H. MAP DISPLAY CASE - (1) EACH IN VESTIBULES 01, 03. SEE 6/A25. (2) MAP DISPLAY CASES REQUIRED.

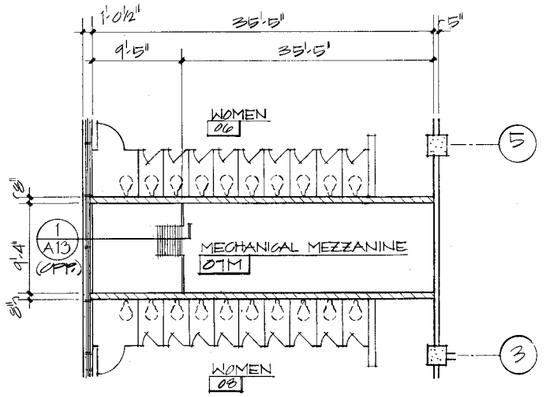
J. BROCHURE DISPLAY CASE - (1) EACH ADJACENT TO ALCOVE 14 AND 16. SEE 7/A25. (2) BROCHURE DISPLAY CASES REQUIRED.

K. ELEVATIONS AND DETAILS OF THE WORKSTATION IN LUNCHROOM 20 ARE ON SHEET A-11 "INTERIOR ELEVATIONS".

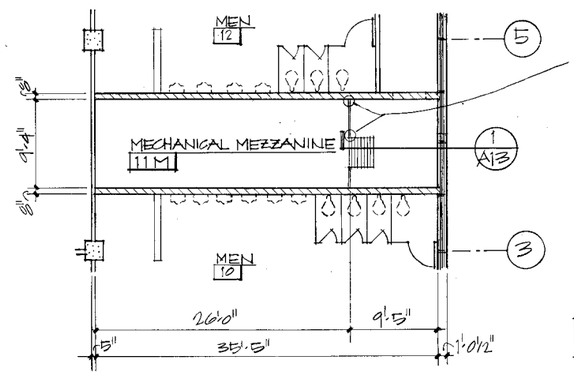
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	27

TILE PLAN, MEZZANINE PLAN
A· 3

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



3 A3 PARTIAL FLOOR PLAN @ MECH. MEZZANINE LEVEL
REF: 1/8"=1'-0"

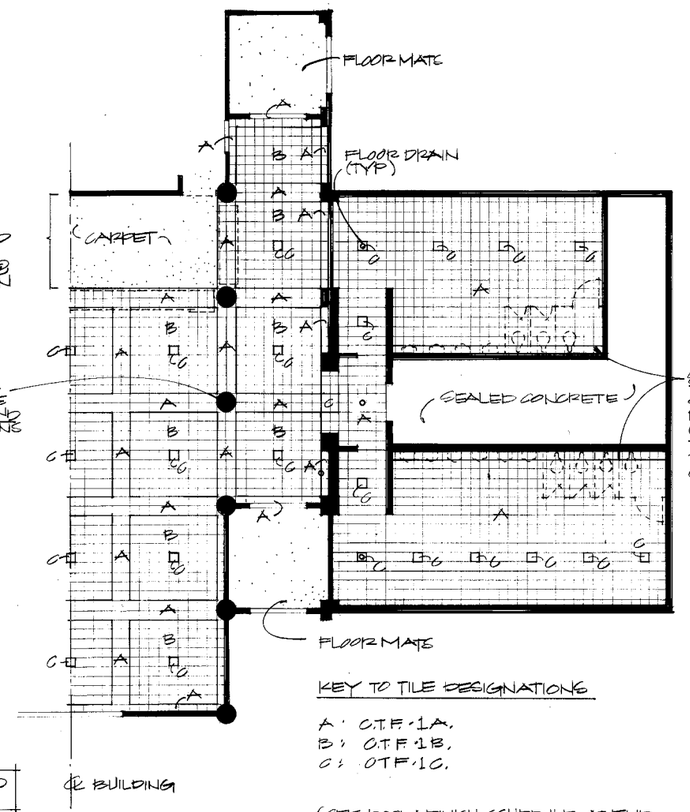


2 A3 PARTIAL FLOOR PLAN @ MECH. MEZZANINE LEVEL
REF: 1/8"=1'-0"

NOTE!
· CARPET PAD TO BE INSTALLED @ INFORMATION #13 ONLY.

· VINYL WALL BASE IS TO BE JOGGED @ ROUND COND. COLUMNS (TYP.)

· SEE 3/A22 FOR GUARD RAIL ANCHORAGE



LEFT HAND SIMILAR

℄ BUILDING

KEY TO TILE DESIGNATIONS

A · C.T.F.-1A,
B : C.T.F.-1B,
C : C.T.F.-1C.

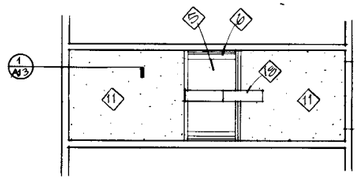
(SEE ROOM FINISH SCHEDULE AT END OF DIVISION 9 IN SPECIFICATIONS MANUAL)

1 A3 FLOOR TILE LAYOUT PLAN
REF: 1/8"=1'-0"

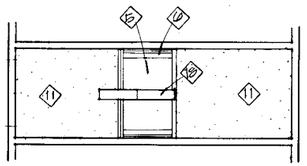
NORTH TRUE NORTH

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.8

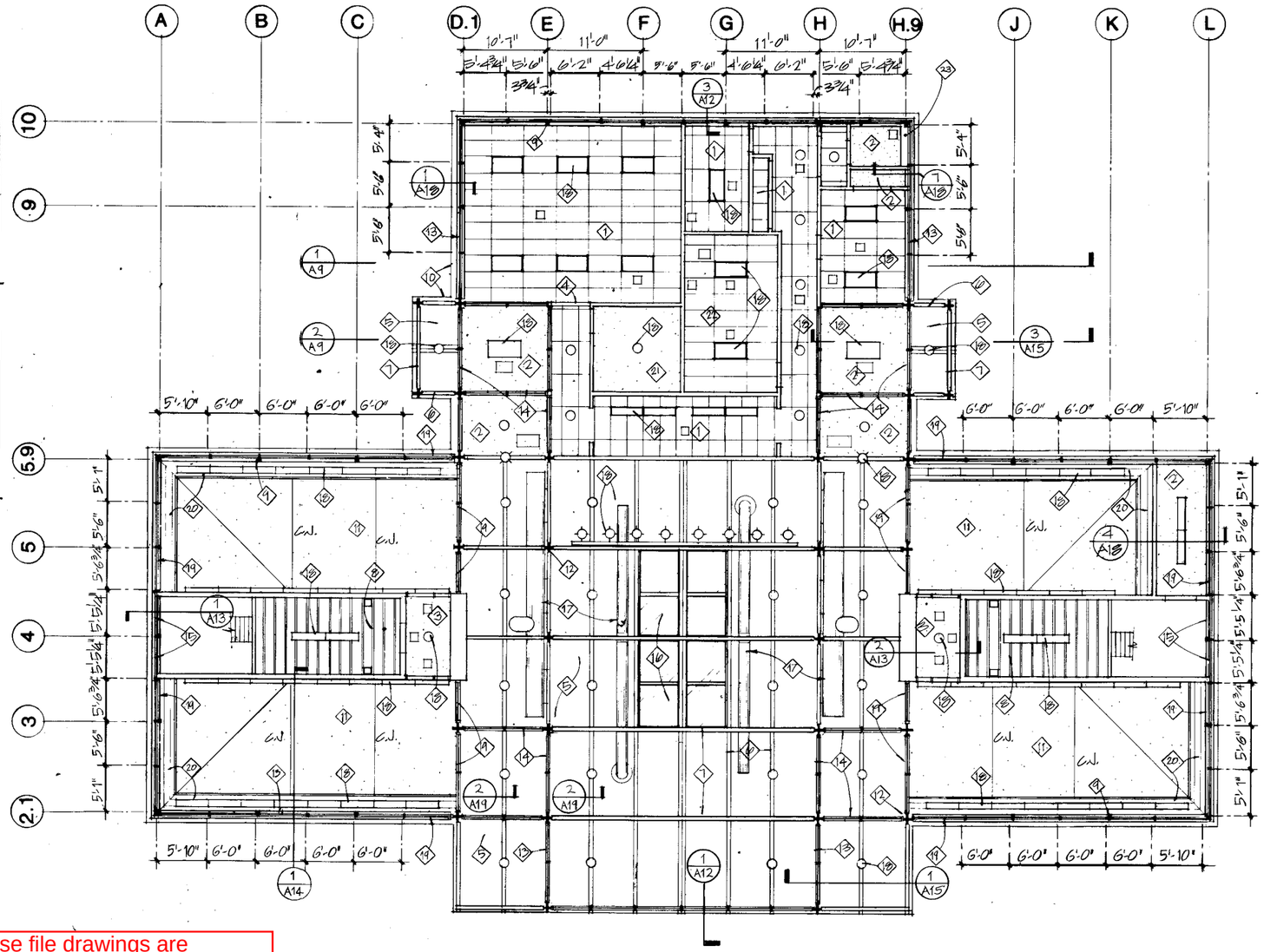
REFLECTED CEILING PLAN A-4



WOMEN'S TOILETROOM MEZZANINE



MEN'S TOILETROOM MEZZANINE



1 A-4 REFLECTED CEILING PLAN 1/8"=1'-0"

PLAN NORTH

TRUE NORTH

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

[NOTE: CEILING PLAN SECTION CUT IS TAKEN AT HIGH WINDOWS AT FIRST FLOOR LEVEL.]

NOTES TO DRAWING

1. 2' x 4' ACOUSTICAL CEILING TILE AT 8'-6" ABOVE FINISHED FLOOR.
2. GYPSUM BOARD CEILING AT 8'-6" ABOVE FINISHED FLOOR.
3. GYPSUM BOARD CEILING/SOFFIT AT 7'-2" ABOVE FINISHED FLOOR.
4. GYPSUM BOARD HEADER AT 7'-2" ABOVE FINISHED FLOOR.
5. EXPOSED WOOD DECKING.
6. EXPOSED WOOD PURLINS.
7. STRUCTURAL GLUED-LAMINATED TRUSSES.
8. EXPOSED WOOD JOISTS.
9. STEEL TUBE COLUMN - SEE STRUCTURAL DRAWINGS.
10. WOOD FASCIA LINE.
11. GYPSUM BOARD CEILING - SEE WALL AND BUILDING SECTIONS FOR CONFIGURATION.
12. TILE CLAD MASONRY COLUMN CAPITAL.
13. 1" COATED INSULATING GLASS IN BLACK ANODIZED ALUMINUM FRAMES.
14. 1/4" CLEAR GLASS IN BLACK ANODIZED ALUMINUM FRAMES.
15. ALUMINUM LOUVERS IN BLACK ANODIZED ALUMINUM FRAMES.
16. SKYLIGHTS.
17. PAINTED SPIRAL DUCTWORK.
18. LIGHT FIXTURE. (SEE ELECTRICAL DRAWINGS.)
19. 1/4" OBSCURING GLASS IN BLACK ANODIZED ALUMINUM FRAME.
20. 1 x 6 V. GROOVE WOOD CEILING. SEE DETAIL 3/A18.
21. GYPSUM BOARD CEILING AT 8'-0" ABOVE FINISHED FLOOR.
22. 2' x 4' ACOUSTICAL CEILING TILE AT 8'-0" ABOVE FINISHED FLOOR.
23. VENT STACK (PAINT BLACK)

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	29

DOOR SCHEDULE

A-5

DOOR SCHEDULE

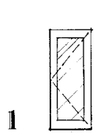
MARK	WIDTH	HEIGHT	#	DOOR TYPE	FRAME TYPE	SILL OR JAMB	HEAD	LABEL	HDWR SET	NOTES
1	3'-0"	7'-0"	2	1	A	1/A16	3/A15		2	
2	3'-0"	7'-0"	2	1	A	2,6/A16	3/A15SIM		3	
3	5'-5"	8'-4"	2	2	—	3/A16	1/A12		1	1
4	3'-0"	7'-0"	2	1	A	1/A16	3/A15		2	
5	3'-0"	7'-0"	2	1	A	2,6/A16	3/A15SIM		3	
6	3'-0"	6'-10"	1	5	E	5,7/A26	—		10	3,1
7	3'-0"	6'-10"	1	5	E	5,7/A26	—		10	3,1
8	3'-0"	6'-10"	1	5	E	5,7/A26	—		10	3,1
9	3'-0"	6'-10"	1	5	E	5,7/A26	—		10	3,1
10	3'-0"	7'-0"	2	1	A	1/A16	3/A15		2	
11	3'-0"	7'-0"	2	1	A	2,6/A16	3/A15SIM		3	
12	3'-0"	7'-0"	1	8	D	5/A16	—		4	5
13	3'-0"	7'-0"	1	8	D	5/A16	—		4	5
14	3'-0"	7'-0"	2	1	A	2,6/A16	3/A15SIM		3	
15	3'-0"	7'-0"	2	1	A	1/A16	3/A15		2	
16	3'-0"	7'-0"	1	3	B	—	—		4	
17	3'-0"	7'-0"	1	3	B	—	—		5	
18	3'-0"	7'-0"	1	3	B	—	—		5	
19	2'-4"	7'-0"	2	3	B	—	—	1½HR	13	
20	3'-0"	6'-10"	2	4A	B	4/A16	2/A5		8	9
21	3'-0"	7'-0"	1	3	B	—	—		5	
22	3'-0"	7'-0"	1	1	F	4/A16SIM	—		7	—
23	3'-0"	7'-0"	1	3	B	—	—		6	
24	3'-0"	7'-0"	3	6	B	—	3/A5		9	
25	3'-8"	6'-10"	1	4	B	4/A26	2/A13		12	
26	3'-8"	6'-10"	1	4	B	4/A26	2/A13		12	
P.1	3'-6"	6'-8"	1	7	C	1/A5	8/A24		11	2,5
P.2	3'-6"	6'-8"	1	7	C	1/A5	8/A24		11	2,5

NOTES TO DOOR SCHEDULE

1. SEE SOUTH ELEVATION, SHEET A-6, FOR ALUMINUM CURTAIN WALL FRAME CONFIGURATION.
2. SLIDING DOOR TRACK PROVIDED BY HOLLOW METAL FRAME SUPPLIER.
3. SEE DETAIL 4/A-5 FOR PULL PLATE ENGRAVING REQUIREMENTS.
4. PLASTIC LAMINATE COLOR: PL-1.
5. PLASTIC LAMINATE COLOR: PL-2.

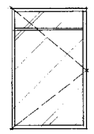
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

DOOR TYPES



1

1/4" CLEAR TEMPERED GLASS & WIDE STILE ANODIZED ALUMINUM DOOR



2

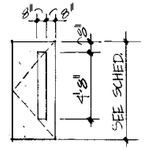
1" COATED INSULATED TEMPERED GLASS & NARROW STILE ANODIZED ALUMINUM DOOR W/ALUM. MEMBER TO MATCH TRANSOM LINE.

3

SOLID CORE PLAIN SLICED RED OAK VENEER DOOR, 1 3/4" THICK.

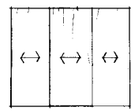
4 1 3/4" HOLLOW METAL DOOR

4A 1 3/4" INSULATED HOLLOW METAL DOOR



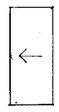
5

SOLID CORE PLASTIC LAMINATE VENEER DOOR 1 3/4" THICK W/ 1/4" CLEAR TEMPERED GLASS VISION WINDOW.



6

1 3/4" SOLID CORE, FLUSH WOOD SLIDE-BY TRIO OF DOORS W/ PLAIN SLICED RED OAK VENEER



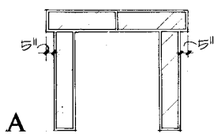
7

SOLID CORE PLASTIC LAMINATE VENEER/ 1 3/4" THICK POCKET DOOR.

8

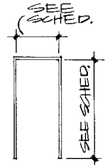
SOLID CORE PLASTIC LAMINATE VENEER DOOR 1 3/4" THICK

FRAME TYPES



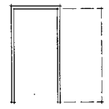
A

ALUMINUM FRAME W/ SIDELIGHTS & TRANSOME.



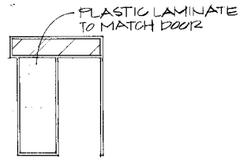
B

2" H.M. FRAME- (TYPICAL, UNLESS OTHERWISE NOTED)



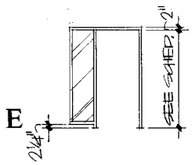
C

HOLLOW METAL POCKET DOOR FRAME



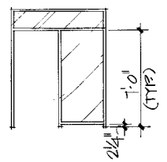
D

ALUMINUM FRAME W/ GLASS TRANSOM & PLASTIC LAMINATE SIDE PANEL



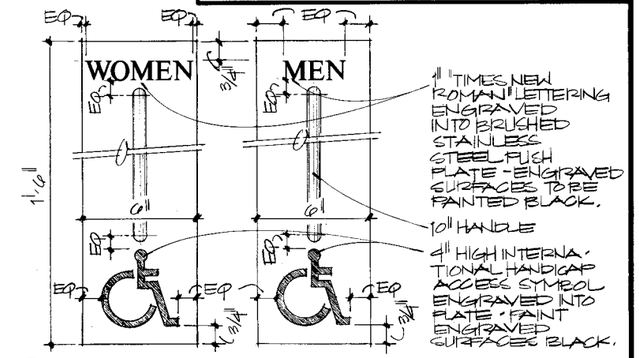
E

HOLLOW METAL FRAME W/OBSCURING GLASS SIDELIGHT

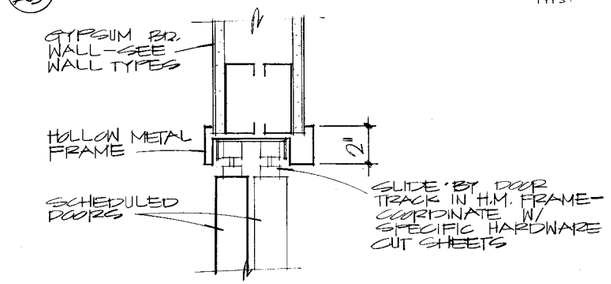


F

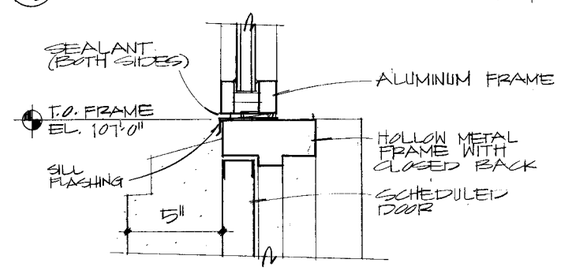
ALUMINUM FRAME W/ TRANSOM AND SIDELIGHT



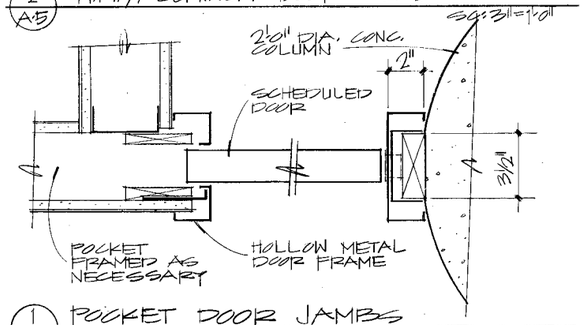
4/A5 PULL PLATE DETAIL NTS.



3/A5 H.M. FRAME & SLIDE-BY DOORS SC: 3"=1'-0"



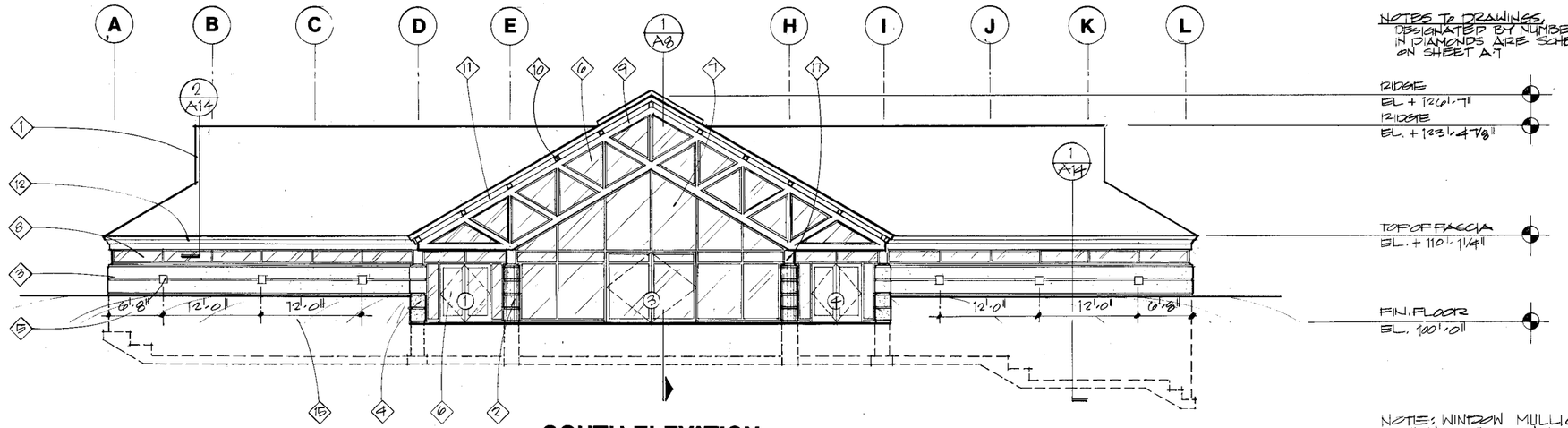
2/A5 H.M./ALUMINUM DOOR HEAD



1/A5 POCKET DOOR JAMBS SC: 3"=1'-0"

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.10

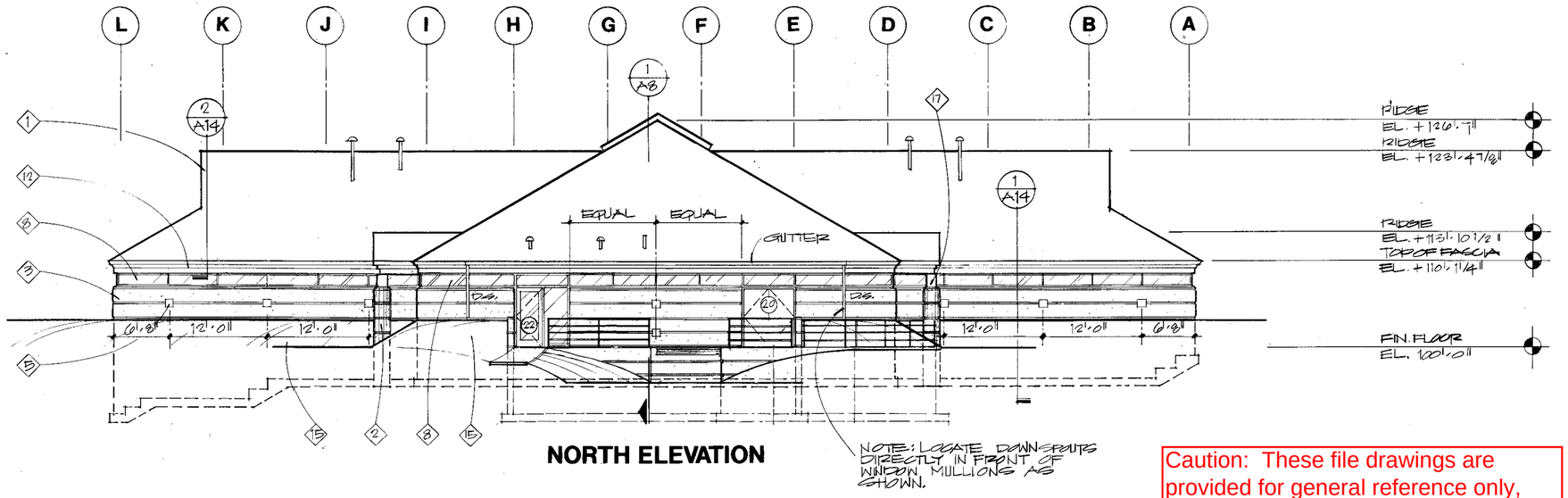
NORTH AND SOUTH ELEVATIONS A· 6



SOUTH ELEVATION

NOTES TO DRAWINGS,
DESIGNATED BY NUMBERS IN DIAMONDS ARE SCHEDULED ON SHEET A7

NOTE: WINDOW MULLIONS ARE DIMENSIONED ON REFLECTED CEILING PLAN, SHEET A4.



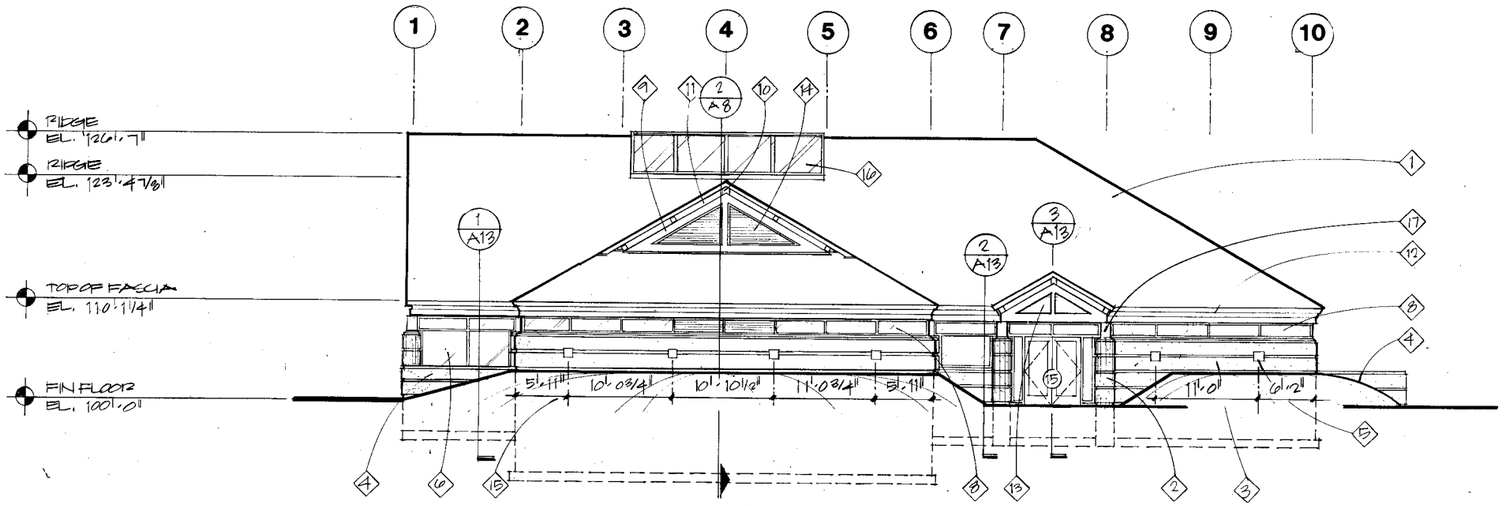
NORTH ELEVATION

NOTE: LOCATE DOWNSPOUTS DIRECTLY IN FRONT OF WINDOW MULLIONS AS SHOWN.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

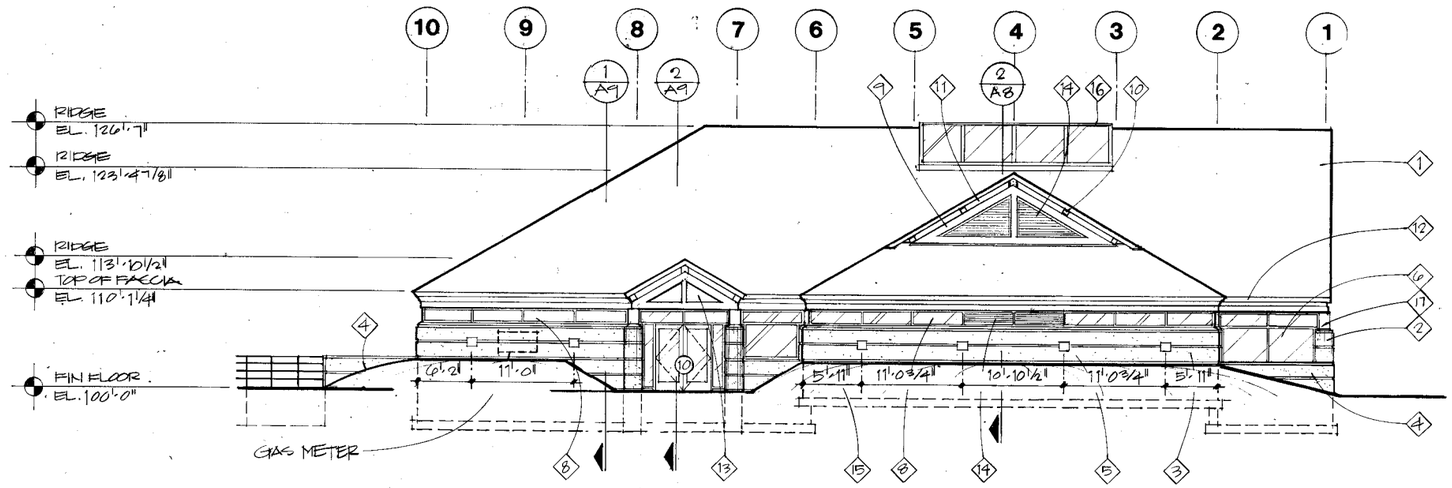
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.11

EAST AND WEST ELEVATIONS
A·7



EAST ELEVATION

WINDOW MULLION LOCATIONS ARE DIMENSIONED ON REFLECTED CEILING PLAN, SHEET A4.



WEST ELEVATION

NOTES TO DRAWING

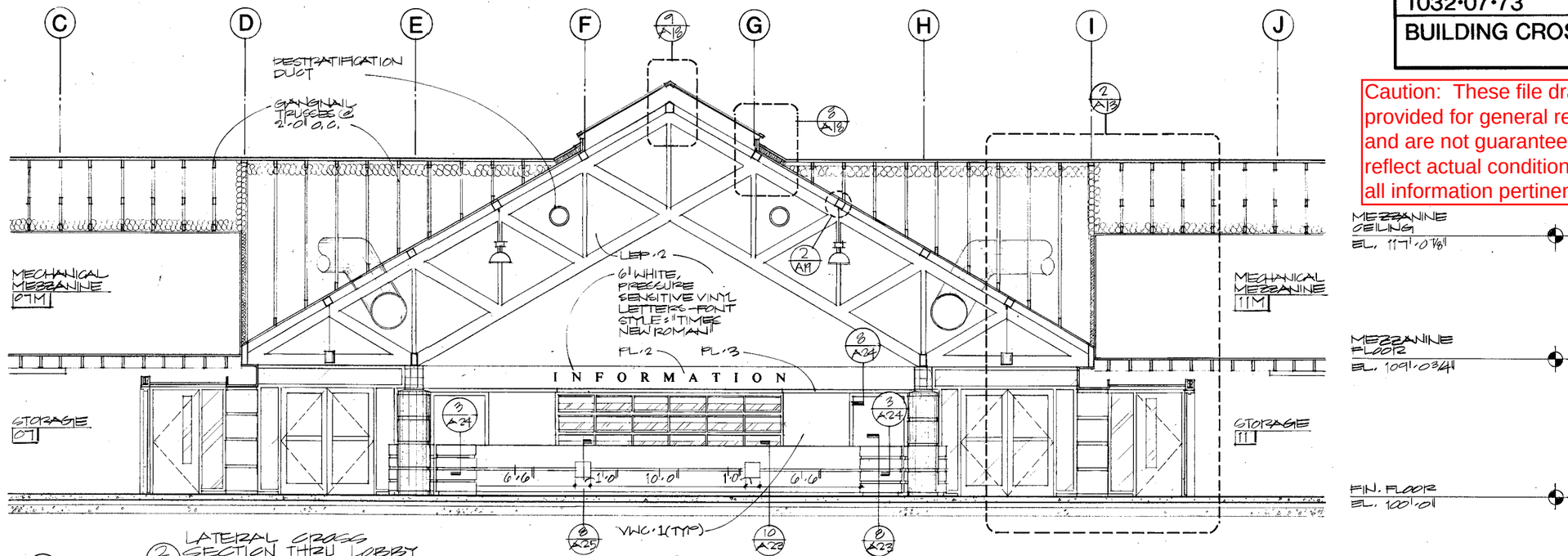
1. ASPHALT SHINGLE ROOFING.
2. CONCRETE COLUMNS WITH REVEALS.
3. CONCRETE WALL WITH REVEALS - SEE WALL SECTIONS.
4. CONCRETE RETAINING WALL WITH REVEALS. SEE SHEET A28.
5. DECORATIVE STONE TRIM INSERT - SEE DETAIL 5/A20.
6. 1" COATED INSULATING GLASS IN BLACK ANODIZED ALUMINUM FRAMES.
7. 1" COATED INSULATING GLASS IN BLACK ANODIZED ALUMINUM CURTAIN WALL FRAME.
8. 1" COATED OBSCURING INSULATING GLASS IN BLACK ANODIZED ALUMINUM FRAMES.
9. STRUCTURAL GLUED-LAMINATED TRUSS.
10. END OF EXPOSED GLUED-LAMINATED PURLIN.
11. INFILL CONDITION BETWEEN EACH PURLIN. SEE DETAIL 6/A19.
12. CEDAR FASCIAS AND FRIEZE BOARDS.
13. SOLID DECKING APPLIED HORIZONTALLY TO WALL.
14. PREFINISHED BLACK HVAC LOUVERS. (SEE DIVISION 15.)
15. EARTH BERM. (SEE SECTION 02200.)
16. SKYLIGHT. SEE DETAILS 8 & 9/A18 AND 7/A19.
17. TILE CLAD MASONRY COLUMN CAPITALS.

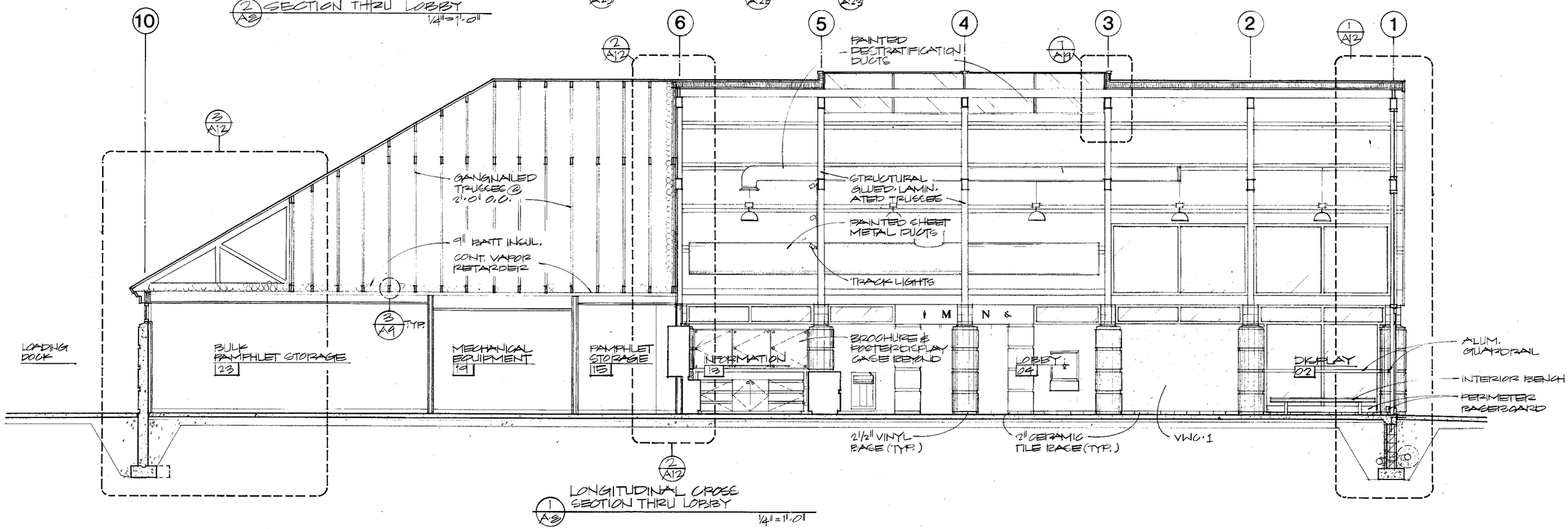
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.12

BUILDING CROSS SECTIONS A-8

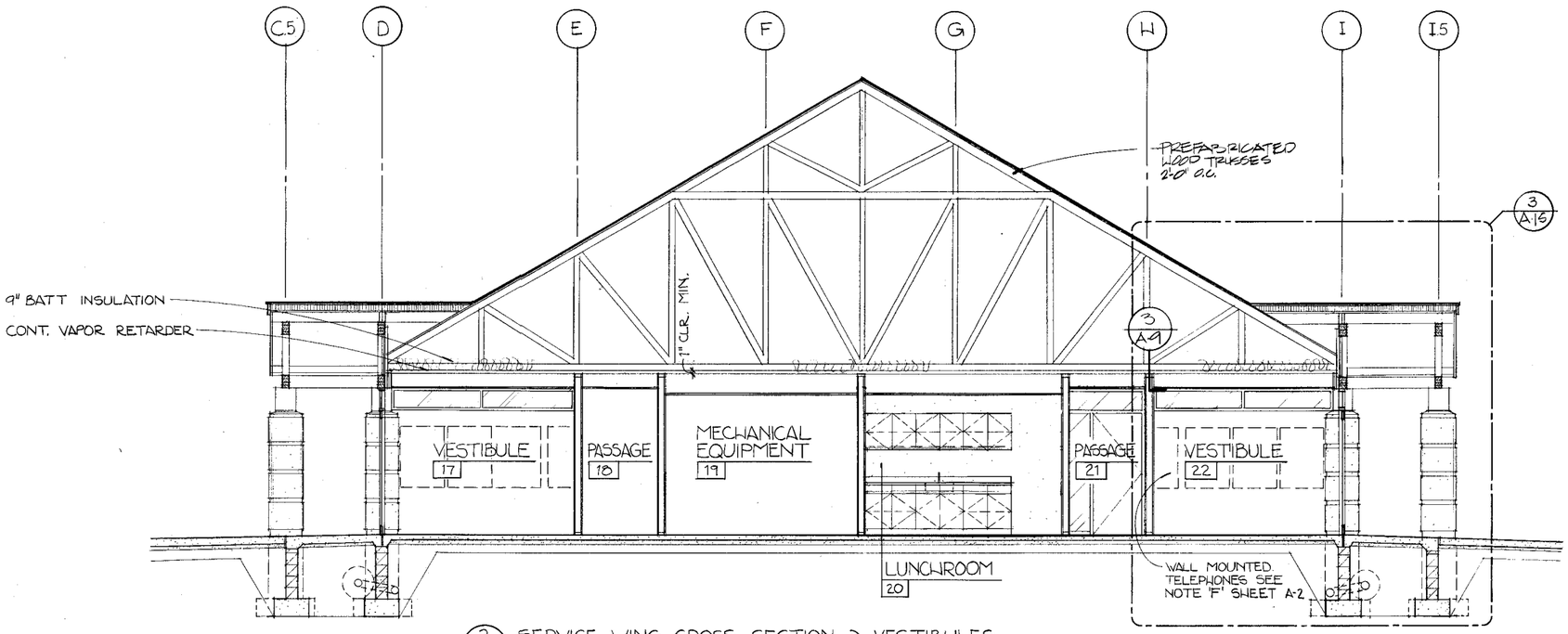
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.





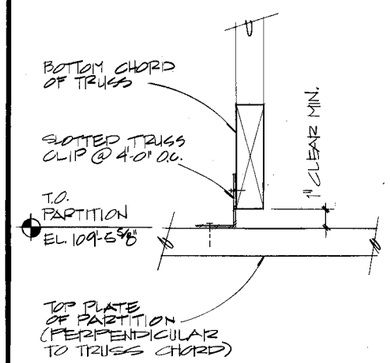
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.13
SERVICE WING CROSS SECTIONS	A· 9

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



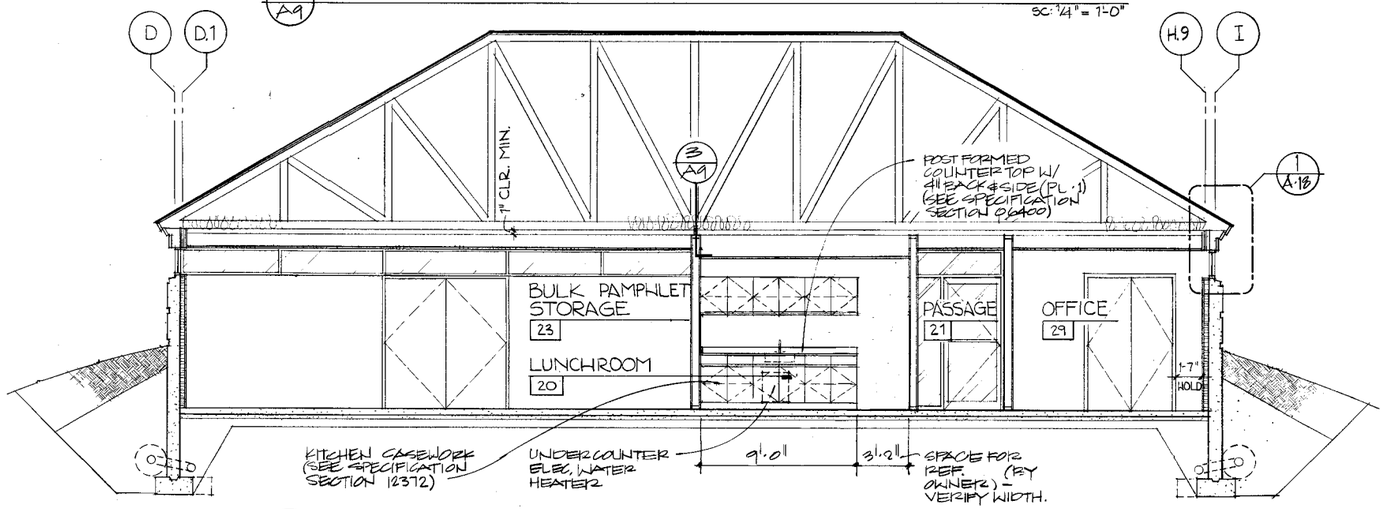
2 A9 SERVICE WING CROSS SECTION & VESTIBULES

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



3 A9 TRUSS CLIP DETAIL

SC: 3" = 1'-0"

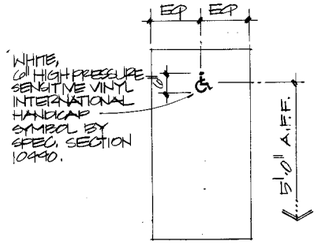


1 A9 SERVICE WING CROSS SECTION

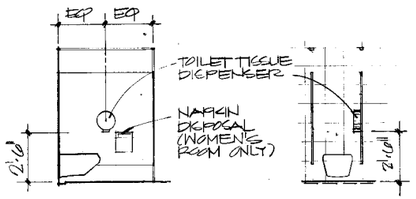
SC: 1/4" = 1'-0"

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

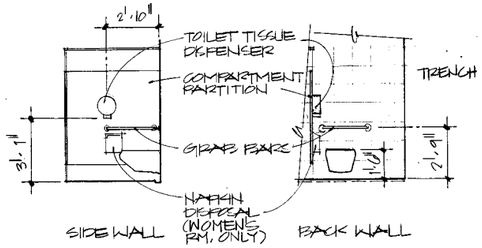
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.14
INTERIOR ELEVATIONS	A·10

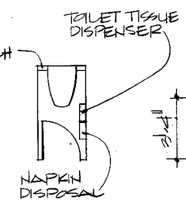


10 / A10 HANDICAP SYMBOL
1/2"=1'-0"



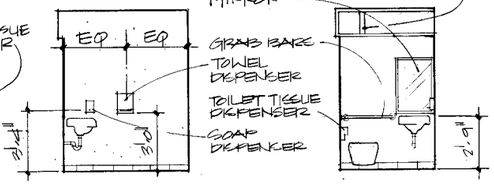
9 / A10 ELEVATIONS FOR TYPICAL TOILET COMPARTMENT
REF: A1, A10
1/4"=1'-0"



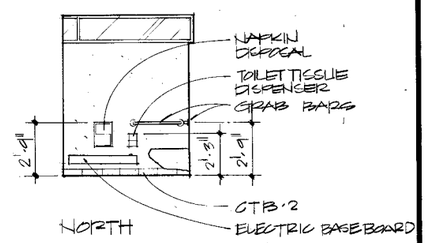


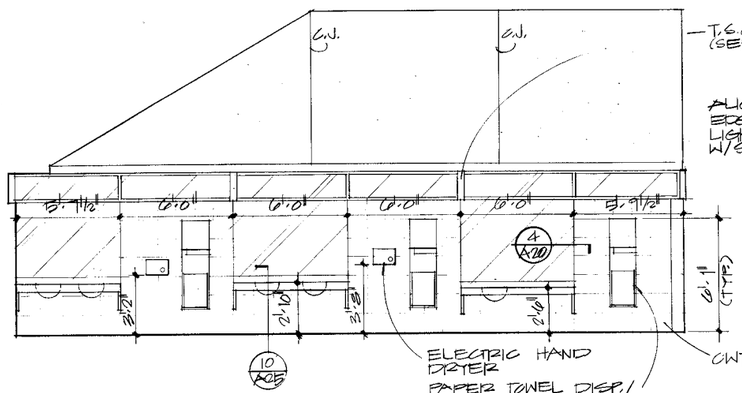
8 / A10 ELEVATIONS FOR TYPICAL HANDICAP COMPARTMENT
REF: A1, A10
1/4"=1'-0"

8A / A10 TYP. STALL PLAN DTL
1/4"=1'-0"

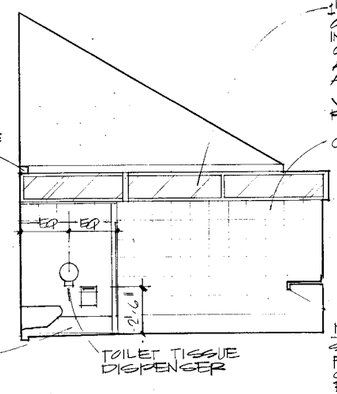


7 / A10 TOILET RM #27 ELEVATIONS
REF: A·1
1/4"=1'-0"

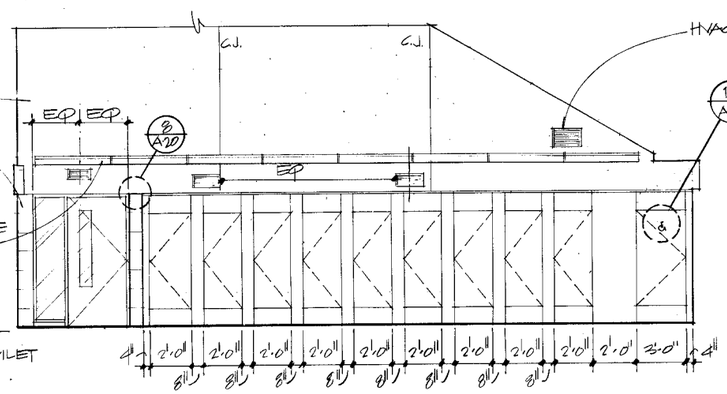




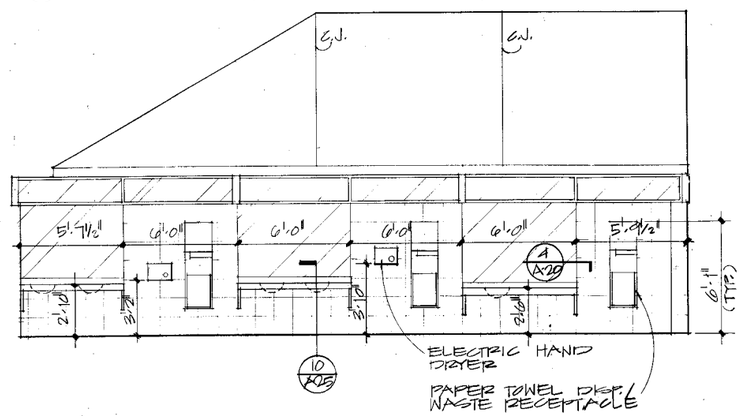
6 / A10 NORTH WALL ELEVATION OF WOMEN'S RM. 06
1/4" = 1'-0"



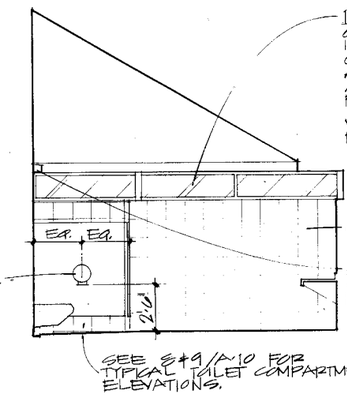
5 / A10 WEST WALL ELEVATION OF WOMEN'S RM. 06
1/4" = 1'-0"



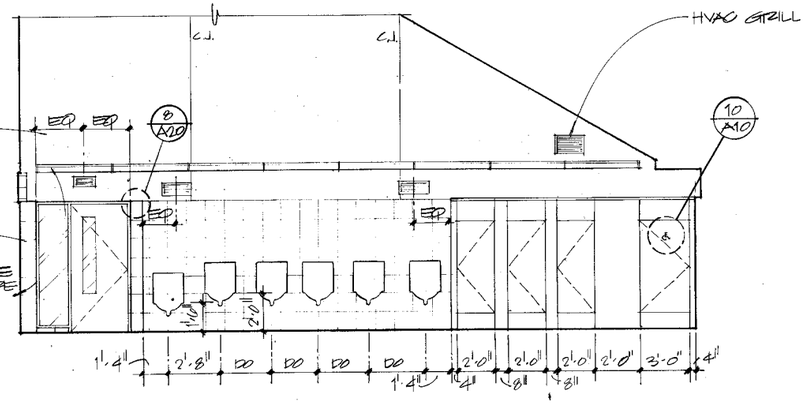
4 / A10 SOUTH WALL ELEVATION OF WOMEN'S RM. 06
1/4" = 1'-0"



3 / A10 SOUTH WALL ELEVATION OF MEN'S RM. 10
1/4" = 1'-0"



2 / A10 EAST WALL ELEVATION OF MEN'S RM. 10
1/4" = 1'-0"



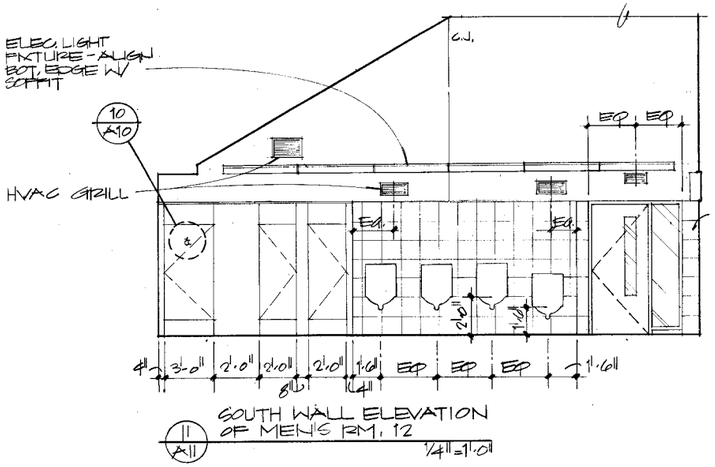
1 / A10 NORTH WALL ELEVATION OF MEN'S RM. 10
1/4" = 1'-0"

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

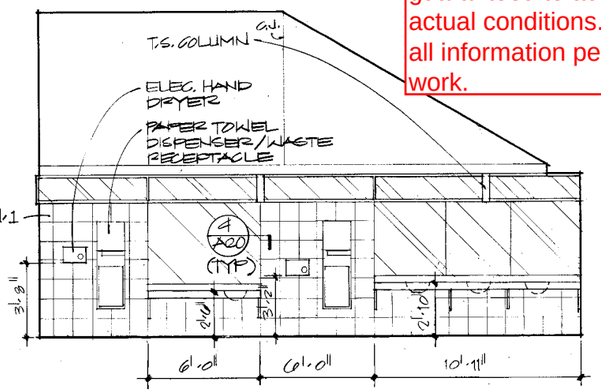
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.15

INTERIOR ELEVATIONS

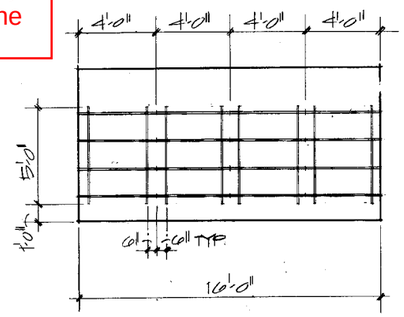
A·11



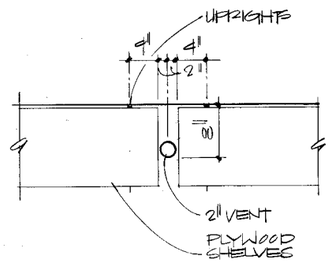
11 A11 SOUTH WALL ELEVATION OF MEN'S RM. 12
1/4" = 1'-0"



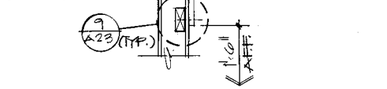
10 A11 NORTH WALL ELEVATION OF MEN'S RM. 12
1/4" = 1'-0"



9 A11 EAST & WEST WALLS @ STORAGE RM 11A
1/4" = 1'-0"



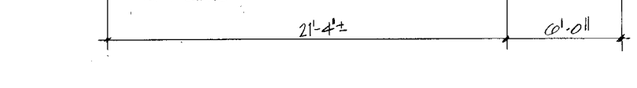
8 A11 PLAN VIEW OF PIPE/ SHELVING
1" = 1'-0"



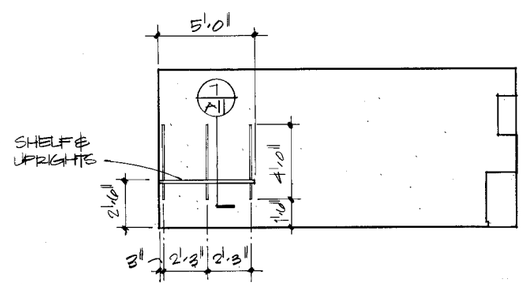
7 A11 WORKSTATION SECTION
SC 1" = 1'-0"

6 A11 SECTION THRU STORAGE SHELVING
SC 1" = 1'-0"

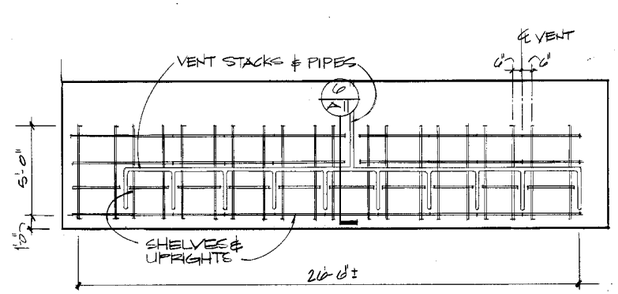
5 A11 SOUTH WALL @ STORAGE 11
SC 1/4" = 1'-0"



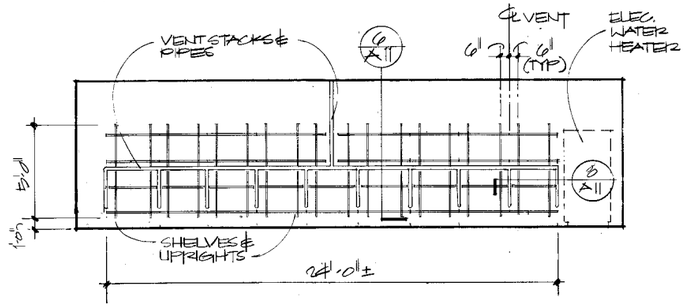
4 A11 STORAGE 11 NORTH WALL
SC: 1/4" = 1'-0"



3 A11 LUNCHROOM 20 WORKSTATION ELEVATION
SC 1/4" = 1'-0"



2 A11 NORTH WALL @ STORAGE 07
SC 1/4" = 1'-0"



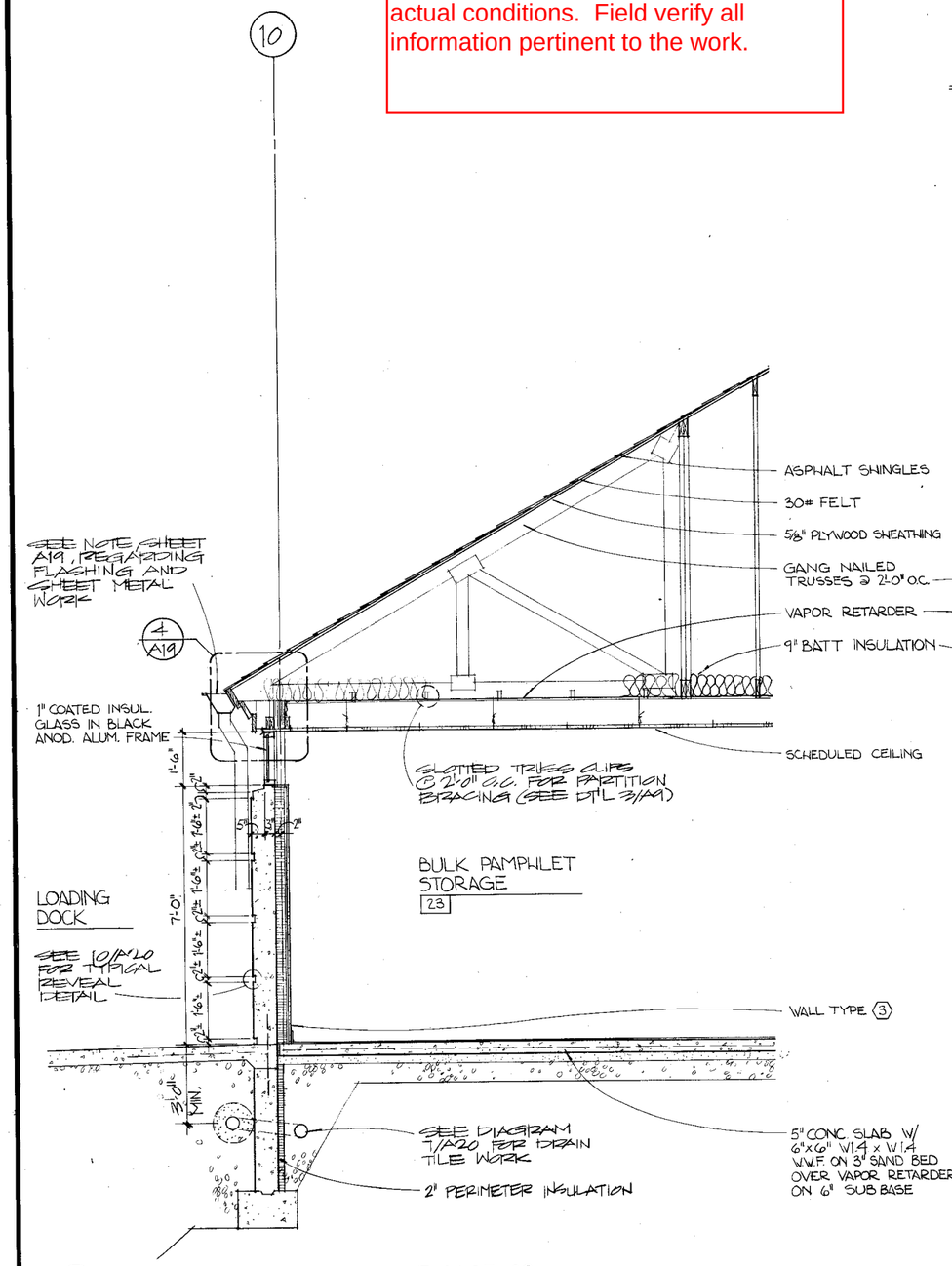
1 A11 SOUTH WALL @ STORAGE 07
SC: 1/4" = 1'-0"

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.16

SECTIONS THRU CURTAIN WALL, SERVICE WING A·12

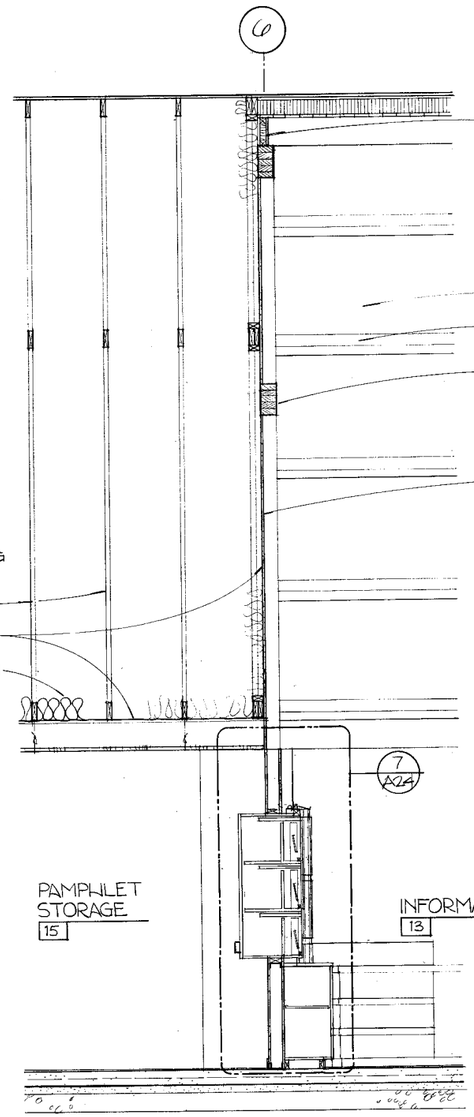
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

4/03/10



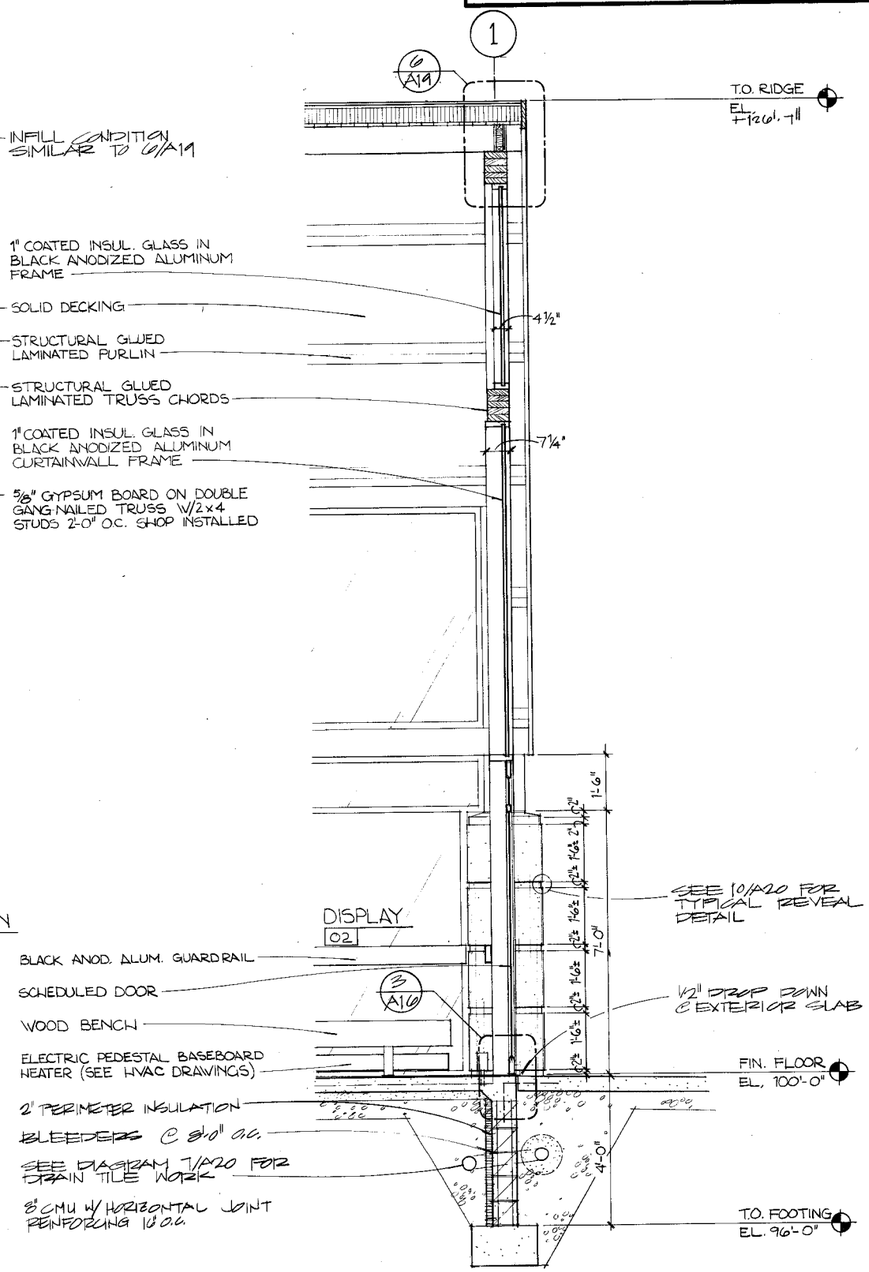
3 A12 SECTION @ BULK PAMPHLET STORAGE 23

SC: ½"=1'-0"



2 A12 SECTION @ INFORMATION 13

SC: ½"=1'-0"



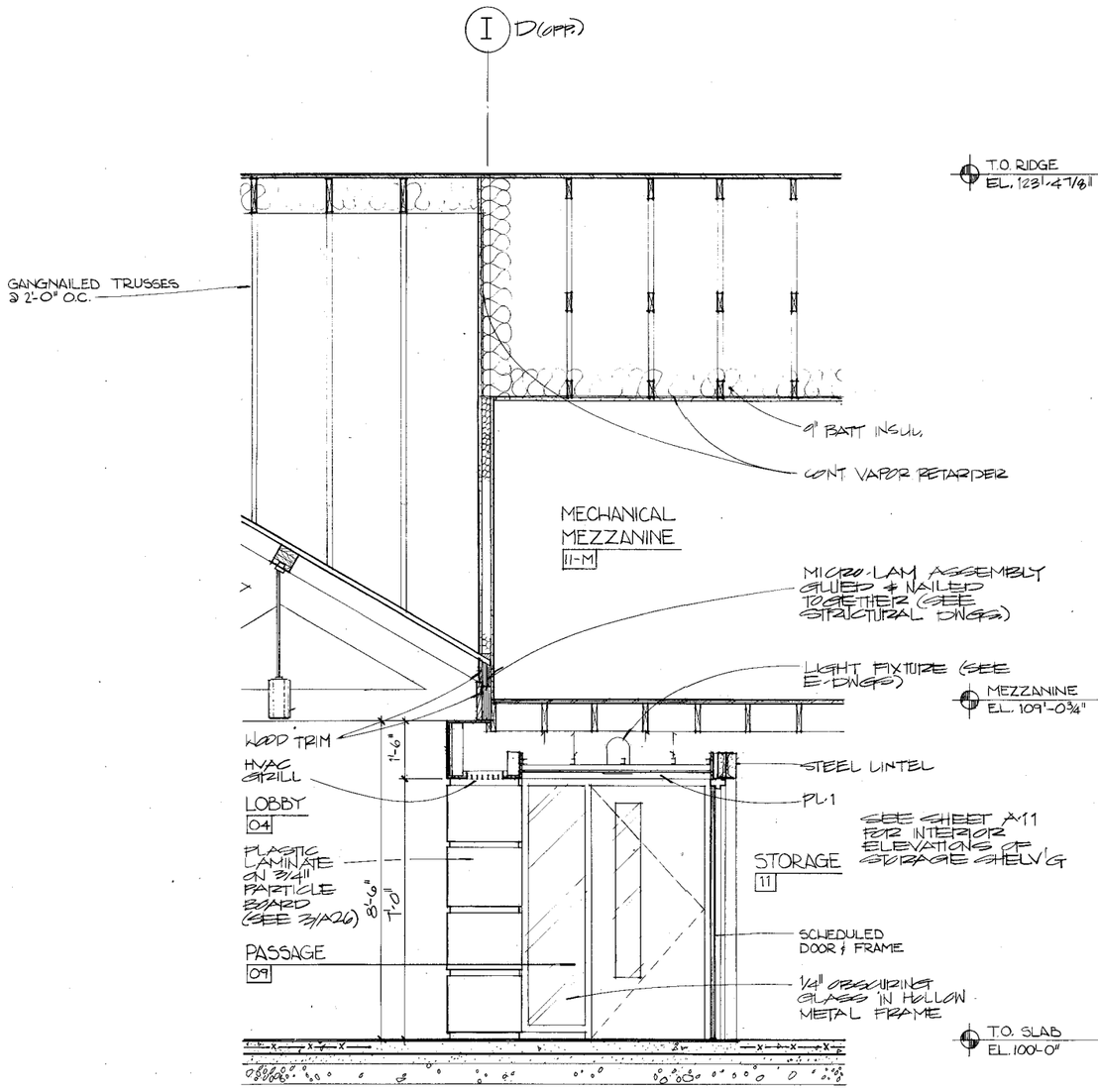
1 A12 SECTION @ CURTAINWALL

SC: ½"=1'-0"

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.17
SECTION @ STORAGE #11, PASSAGE #09	A·13

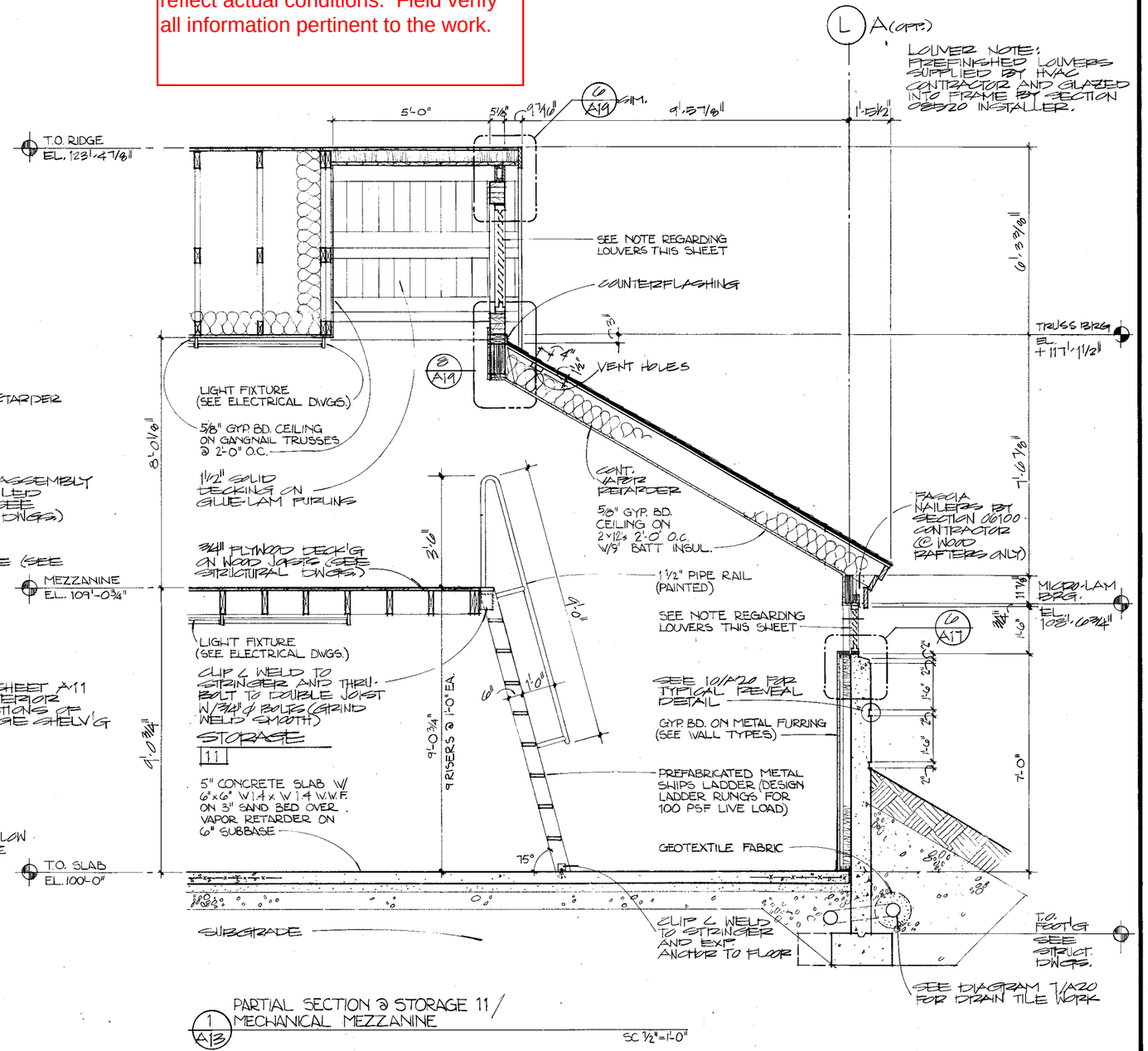
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

4/03/10



2 / A13 PARTIAL SECTION @ PASSAGE 09

SC: ½"=1'-0"



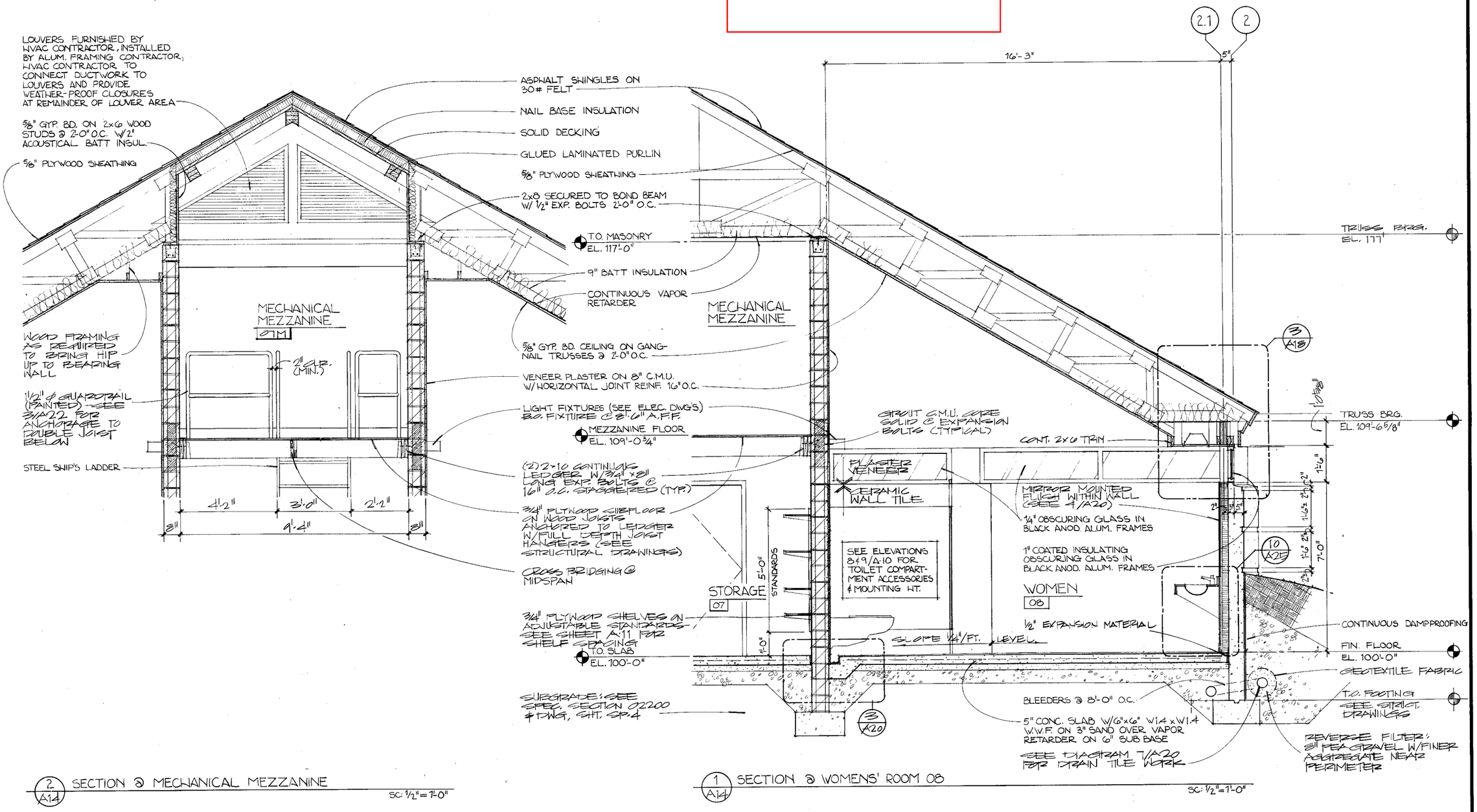
1 / A13 PARTIAL SECTION @ STORAGE 11 / MECHANICAL MEZZANINE

SC ½"=1'-0"

DAL. No. 2130 – 0142

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.18
SECTION @ WOMEN #08, MECH. MEZZANINE	A·14

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

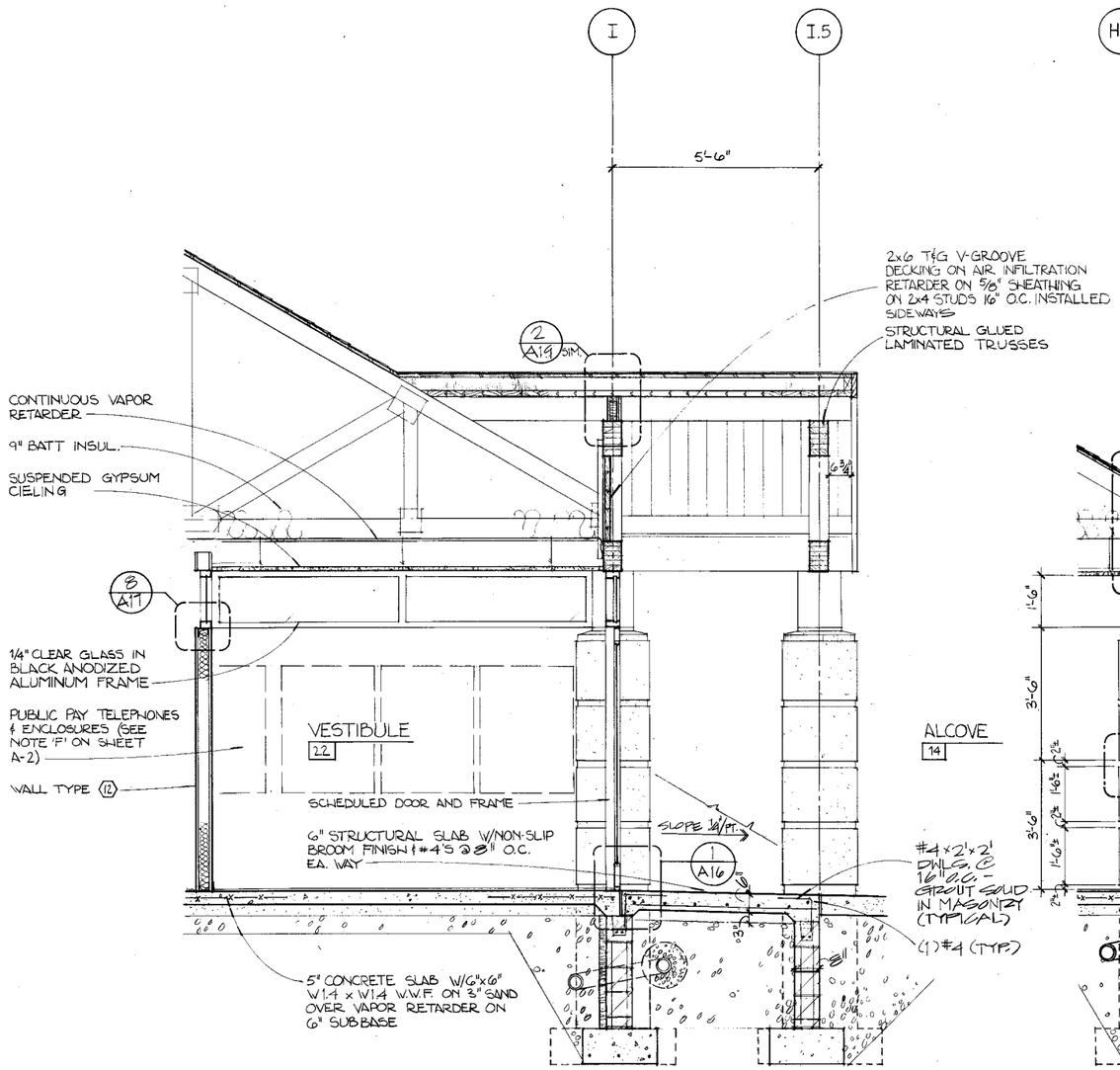


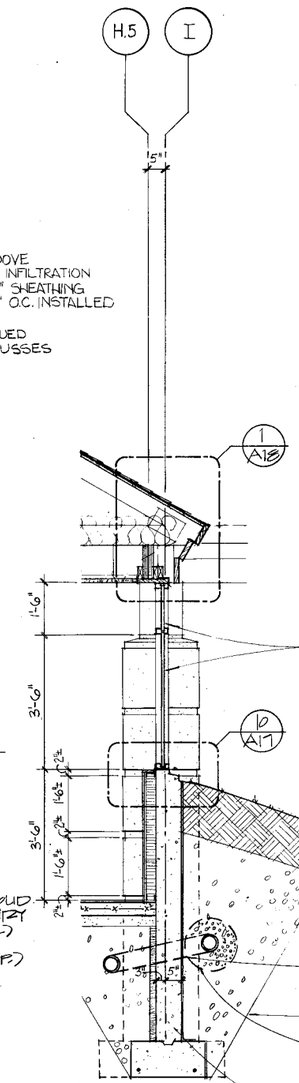
2/A14 SECTION @ MECHANICAL MEZZANINE
SC: ½"=1'-0"

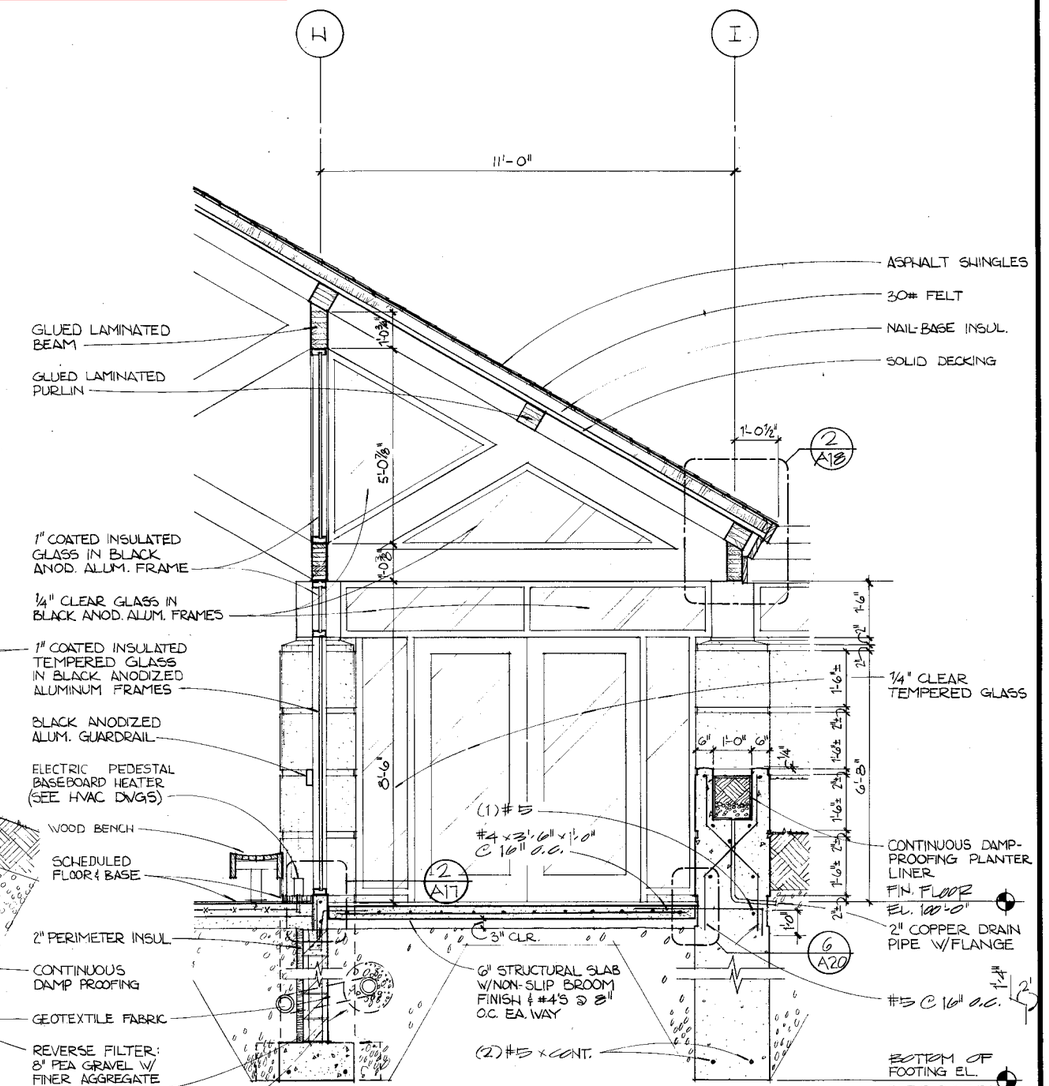
1/A14 SECTION @ WOMENS' ROOM 08
SC: ½"=1'-0"

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.19
SECTIONS @ ENTRY, ALCOVE #14, VEST. #22	A·15

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.







3 A15 SECTION @ VESTIBULE 22 — SC: ½"=1'-0"

2 A15 SECTION @ ALCOVE 14 — SC: ½"=1'-0"

1 A15 SECTION @ ROOF OVERHANG — SC: ½"=1'-0"

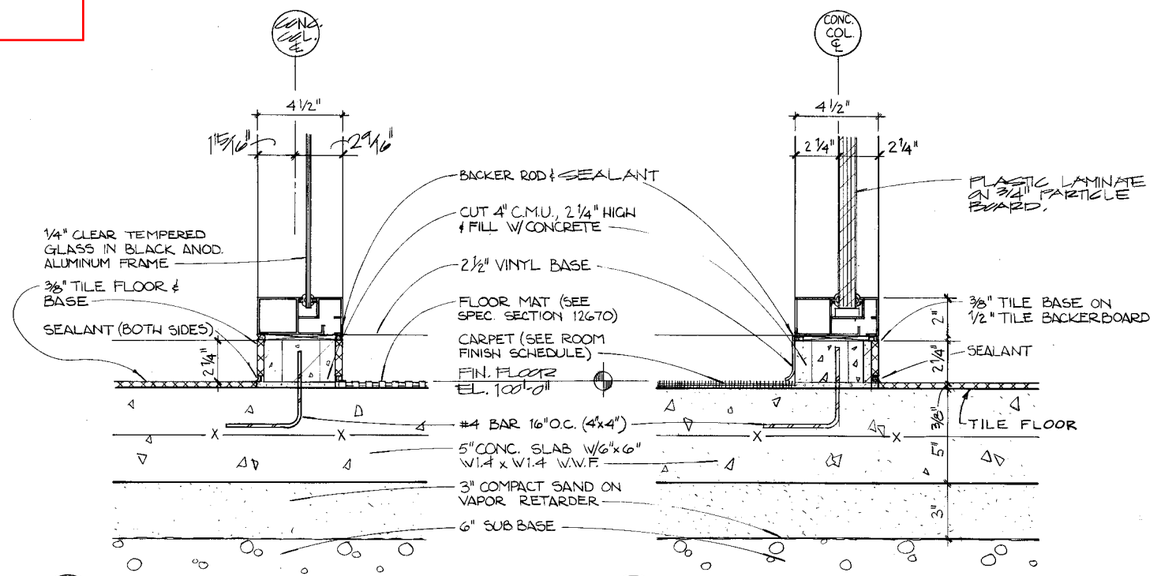
Ltl. No. 2130 – 0142

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.20

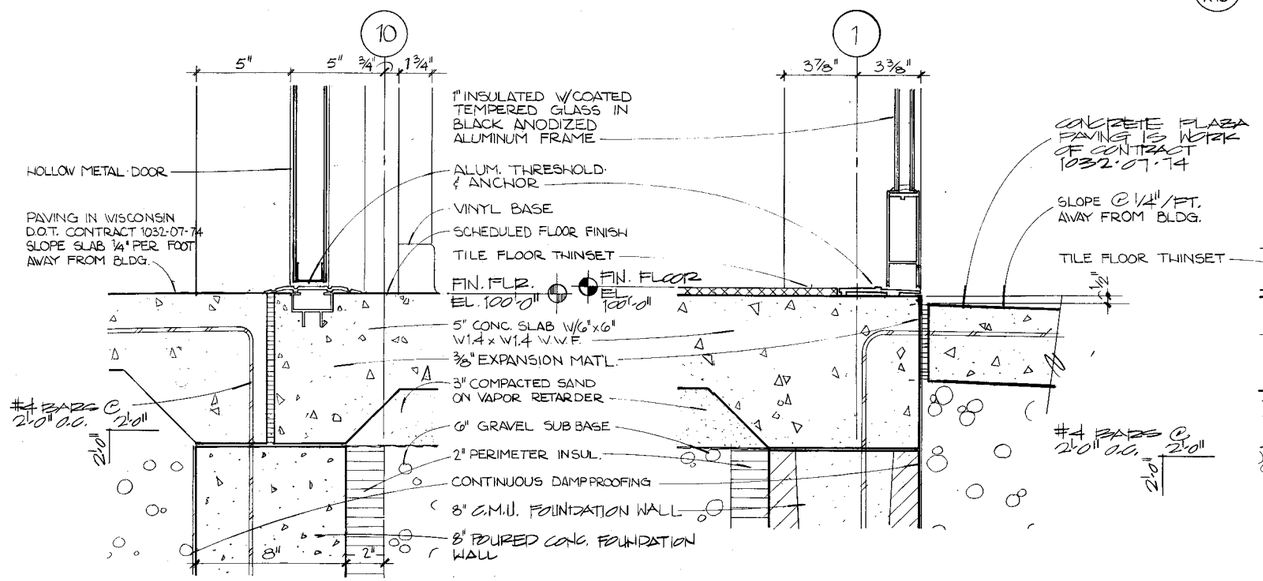
SILL DETAILS

A·16



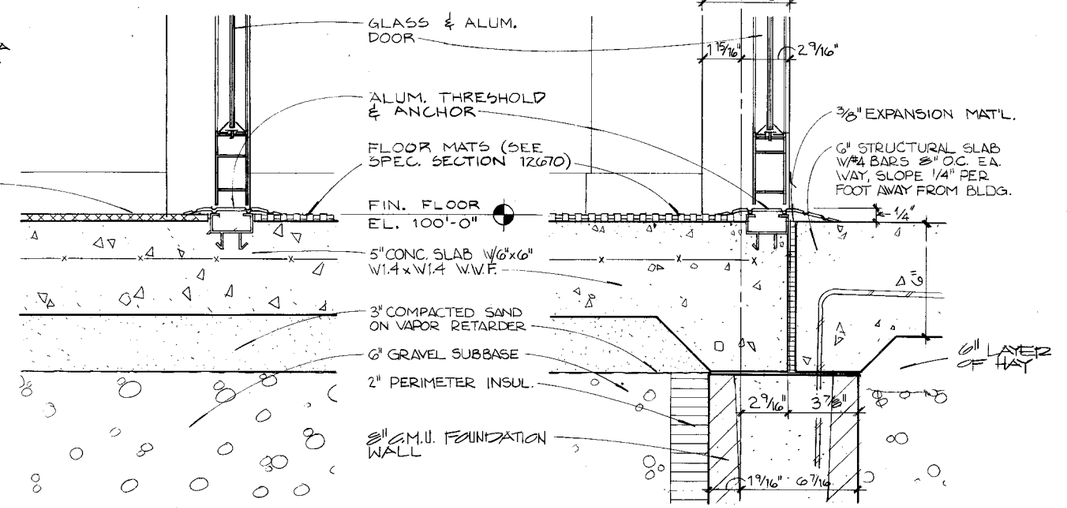
6 A-16 INTERIOR VESTIBULE SIDELIGHT DETAIL 3"=1'-0"

5 A-16 ALCOVE SIDELIGHT DETAIL 3"=1'-0"



4 A-16 EXTERIOR HOLLOW METAL DOOR SILL 3"=1'-0"

3 A-16 DISPLAY AREA DOOR THRESHOLD DETAIL 3"=1'-0"

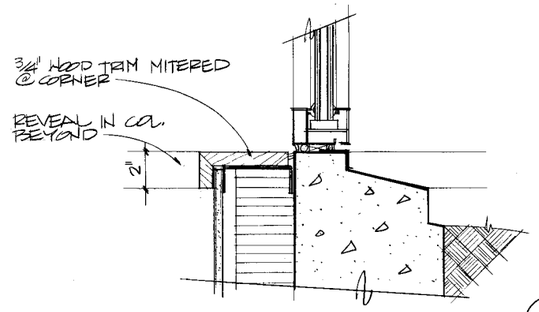


2 A-16 INTERIOR VESTIBULE DOOR DETAIL 3"=1'-0"

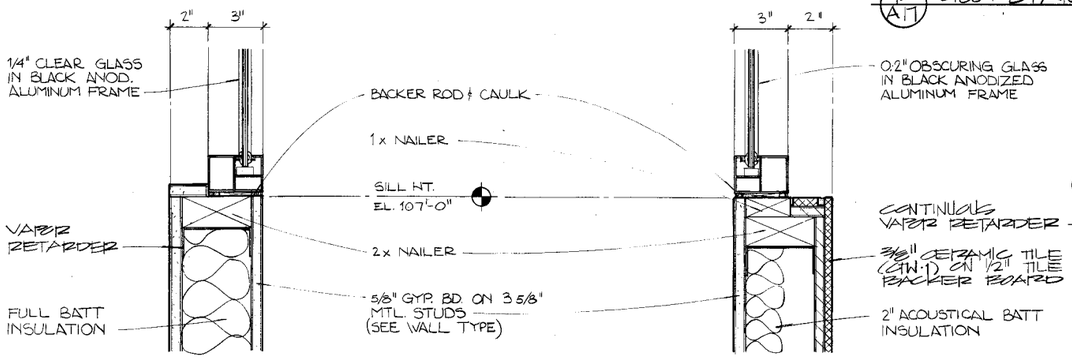
1 A-16 EXTERIOR VESTIBULE DOOR DETAIL 3"=1'-0"

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.21
SILL DETAILS	A-17

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

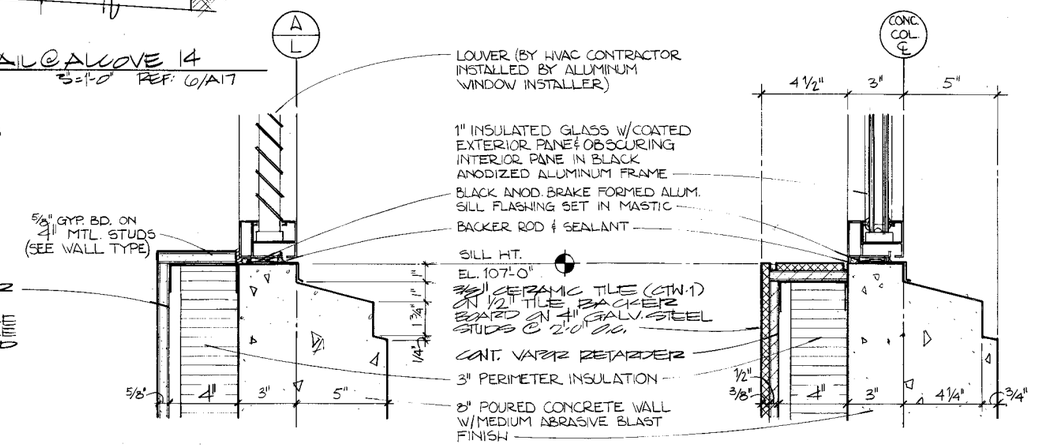


(10 A17) SILL DETAIL @ ALUVOE 14
3"=1'-0" REF: 6/A17



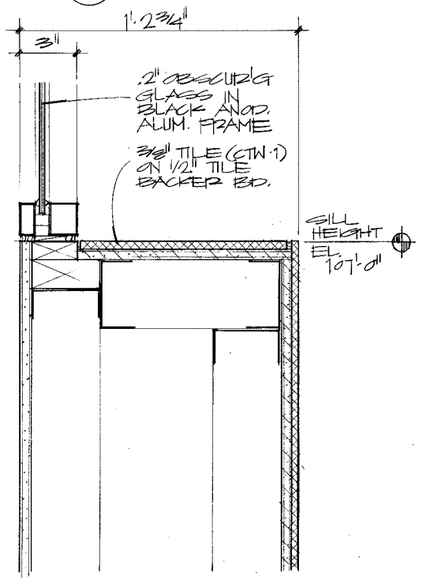
(8 A-17) GYPSUM BOARD SILL DETAIL
3"=1'-0"

(7 A-17) INTERIOR WALL TILE SILL DETAIL
3"=1'-0"

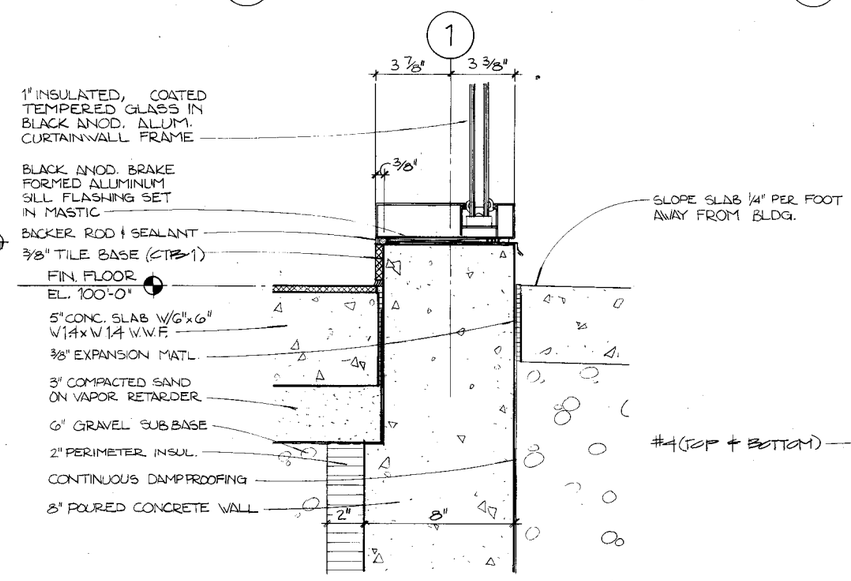


(6 A-17) LOUVER SILL DETAIL
3"=1'-0"

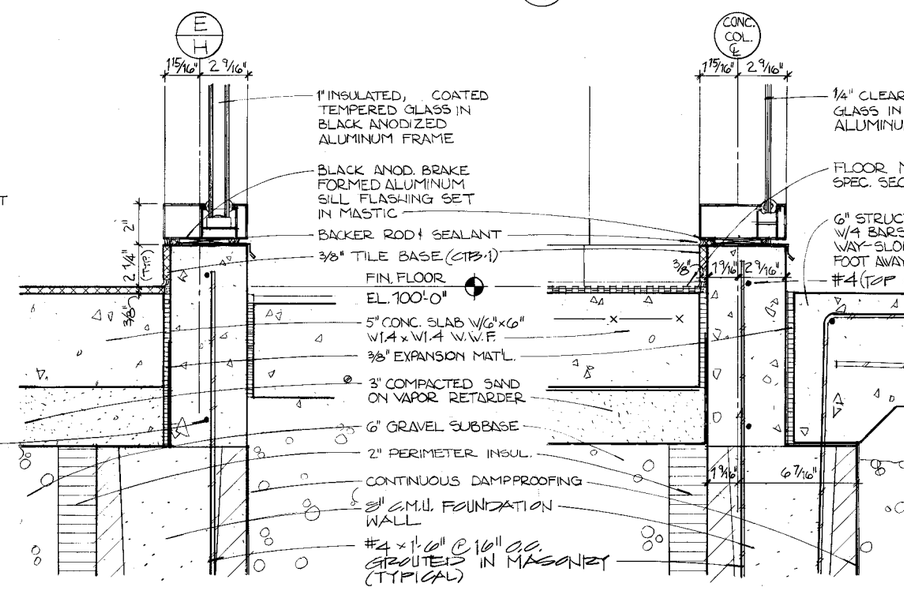
(5 A-17) SILL DETAIL @ TOILET ROOMS
3"=1'-0"



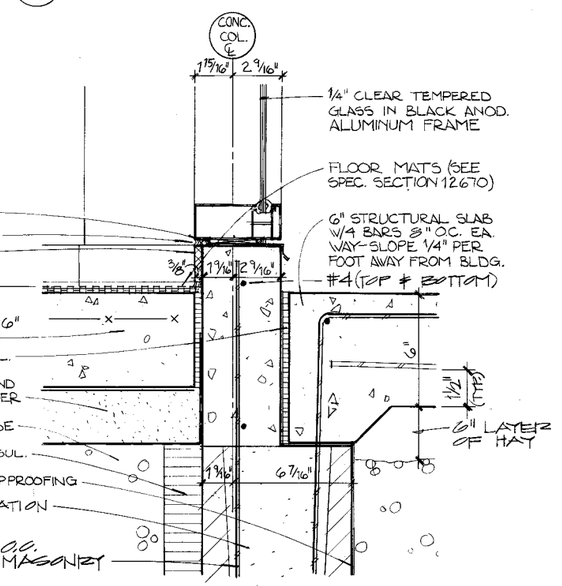
(4 A17) SILL @ WALL TYPE (T)
3"=1'-0"



(3 A-17) SILL DETAIL @ CURTAINWALL
3"=1'-0"



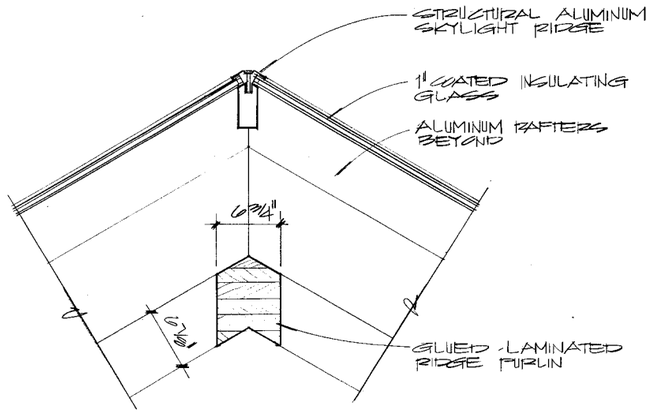
(2 A-17) SILL DETAIL @ ENTRANCE WALK
3"=1'-0"



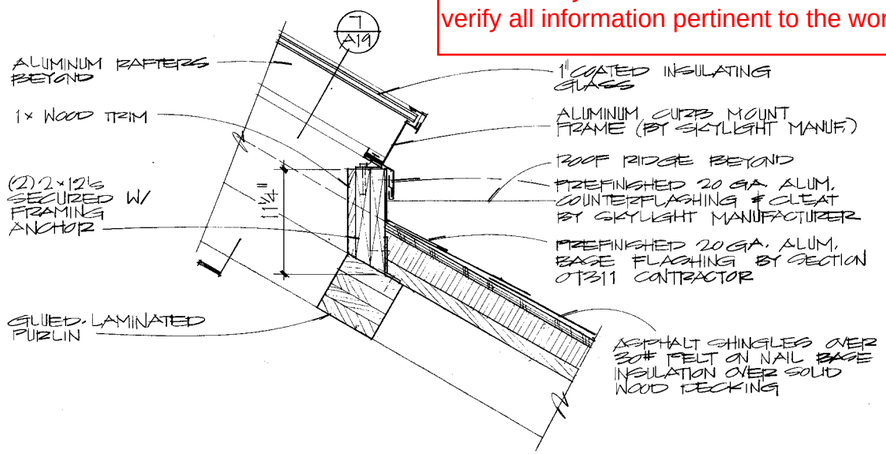
(1 A-17) VESTIBULE EXT. DOOR SIDELIGHT DETAIL
3"=1'-0"

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

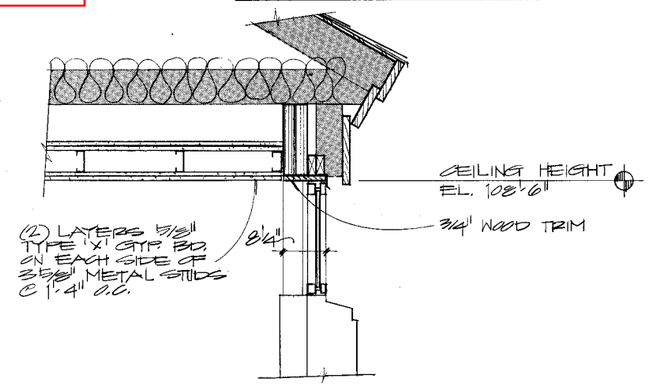
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.22
SECTION DETAILS	A·18



9 / A18 SKYLIGHT RIDGE DETAIL
SC: 1½"=1'-0"

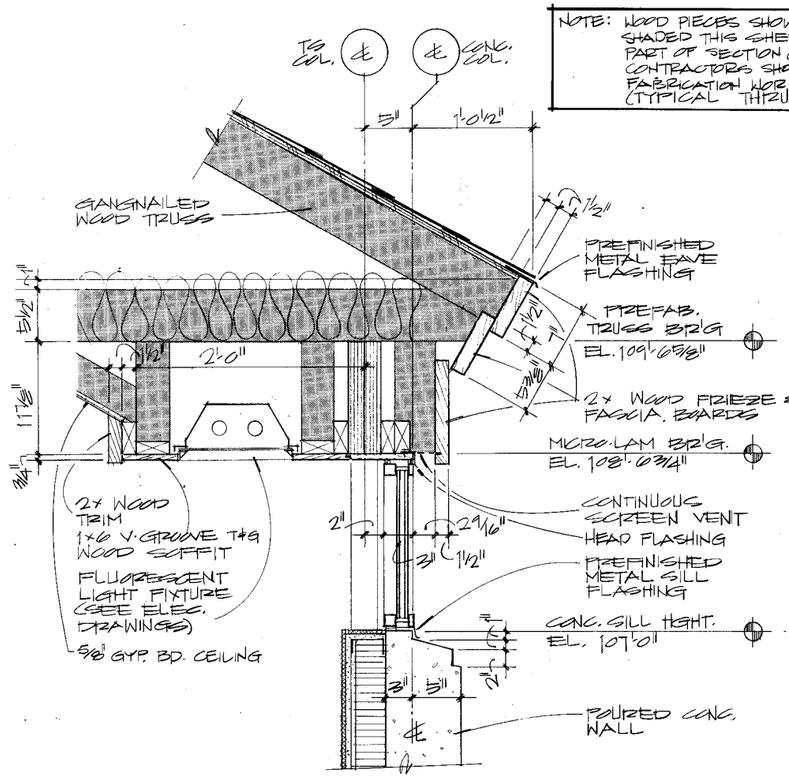


8 / A18 SKYLIGHT CURB DETAIL
SC: 1½"=1'-0"

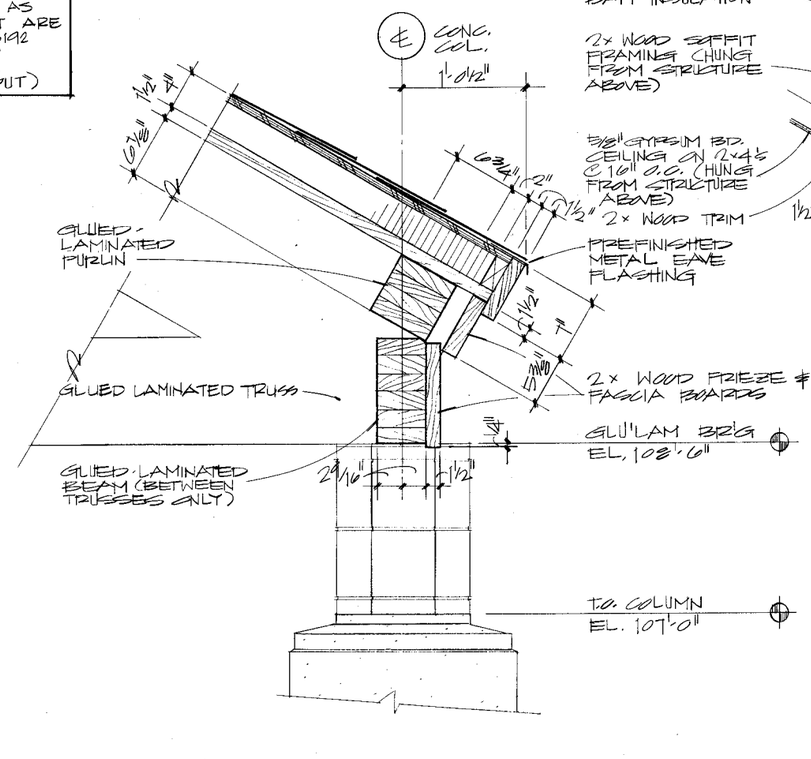


7 / A18 CLOSET 28 CEILING DETAIL
SC: 1"=1'-0"

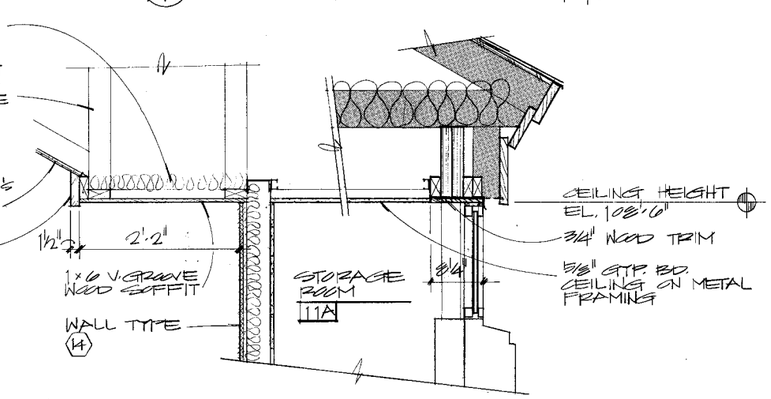
NOTE: WOOD PIECES SHOWN AS SHADED THIS SHEET ARE PART OF SECTION 06192 CONTRACTORS SHOP FABRICATION WORK. (TYPICAL THRU-OUT)



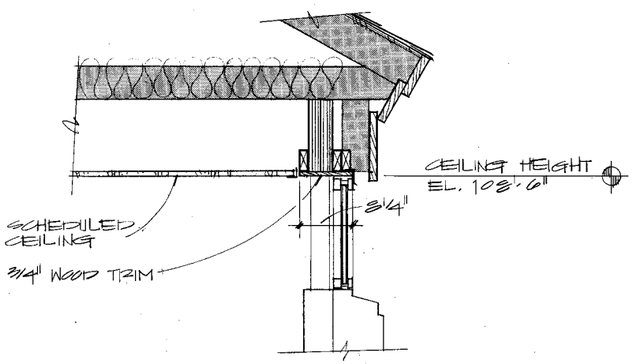
3 / A18 EAVE DETAIL @ TLTROOMS, GANGNAILED TRUSSES
SC: 1½"=1'-0"



2 / A18 EAVE DETAIL @ GLUED-LAMINATED TRUSSES
SC: 1½"=1'-0"



4 / A18 STORAGE RM. 11A CEILING
SC: 1"=1'-0"



1 / A18 CEILING DETAIL @ SERVICE WING
SC: 1"=1'-0"

4/09/90

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

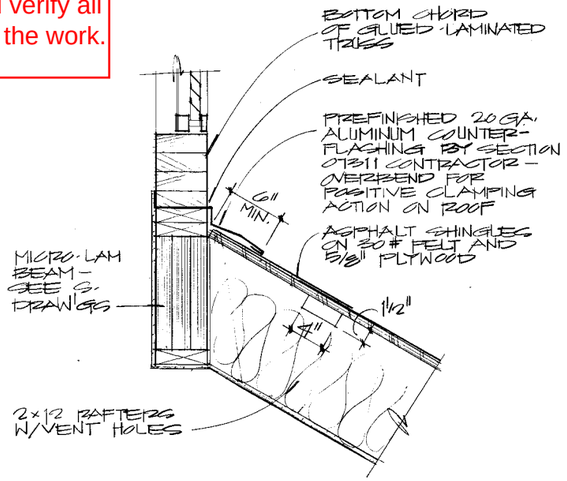
STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.23

SECTION DETAILS

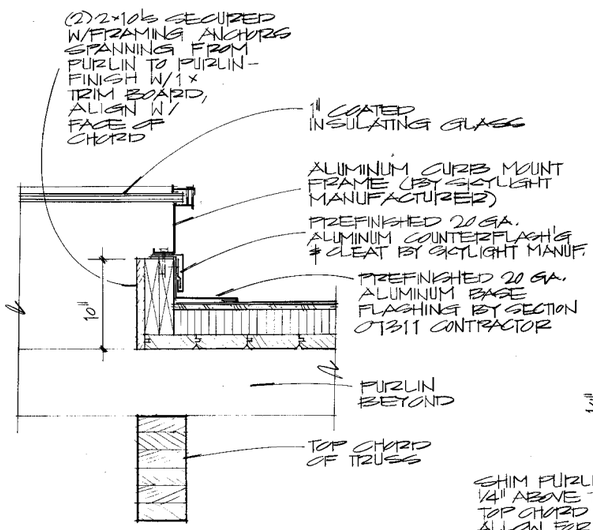
A-19

NOTE TO 07311 CONTRACTOR:

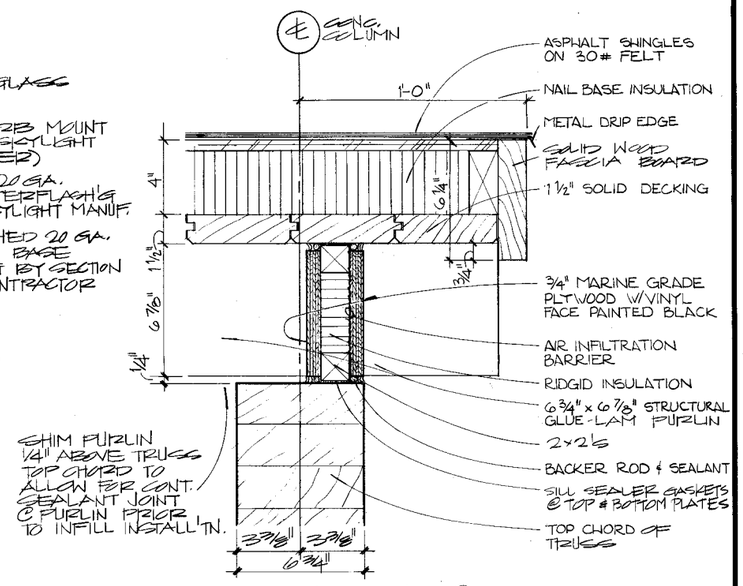
FLASHING AND SHEET METAL WORK INCLUDING METAL COUNTERFLASHING, CUSTOM RIDGE/HIP INTERSECTION WORK AT RIDGE VENTS, GUTTERS, AND DOWNSPOUTS IS WORK OF SECTION 07311 CONTRACTOR. (FOR METAL DRIP EDGE, SEE SPECIFICATIONS.) SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING STANDARD KYNAR FLUOROPOLYMER COLOR SAMPLES FOR SELECTION BY ARCHITECT. WORK IS TO BE SHOP-FABRICATED TO GREATEST EXTENT POSSIBLE AND SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF SMACNA "ARCHITECTURAL SHEET METAL MANUAL". FABRICATE FOR WATERPROOF AND WEATHER-RESISTANT PERFORMANCE WITHOUT EXCESSIVE OIL-CANNING, BUCKLING, OR TOOL MARKS. ALL EXPOSED EDGES SHALL BE FOLDED BACK TO FORM HEMS. FORM ALUMINUM SEAMS WITH EPOXY SEAM SEALER; RIVET JOINTS FOR ADDITIONAL STRENGTH WHERE REQUIRED. PROVIDE FOR SEPARATION OF METAL FROM NON-COMPATIBLE METAL OR CORROSIVE SUBSTRATES BY COATING CONCEALED SURFACES WITH BITUMINOUS COATING. SUBMIT SHOP DRAWINGS TO ARCHITECT SHOWING LAYOUT, JOINING, PROFILES, AND ANCHORAGE OF FABRICATED WORK.



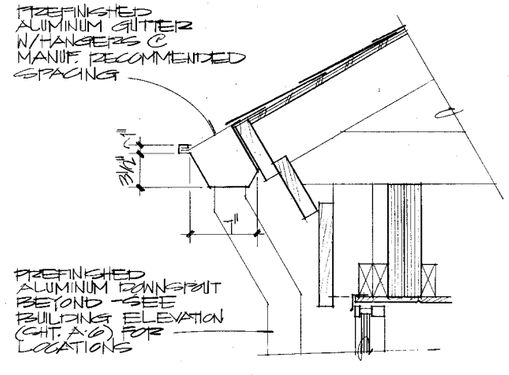
2 A19 SECTION DETAIL 1½"=1'-0"



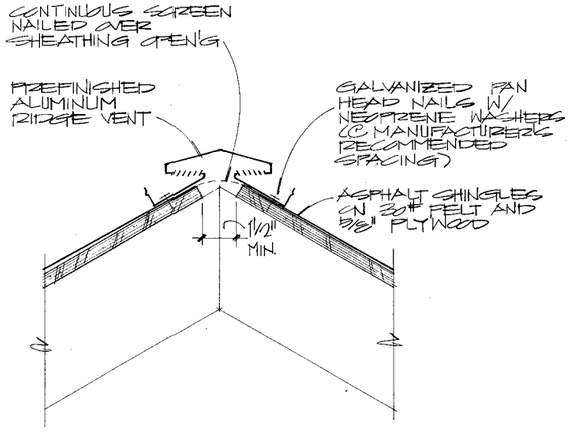
7 A19 SKYLIGHT CURB DETAIL 1½"=1'-0"



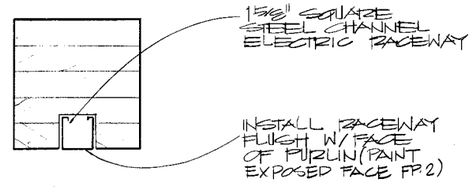
6 A19 TYPICAL INFILL @ TRUSS TOP CHORDS 3"=1'-0"



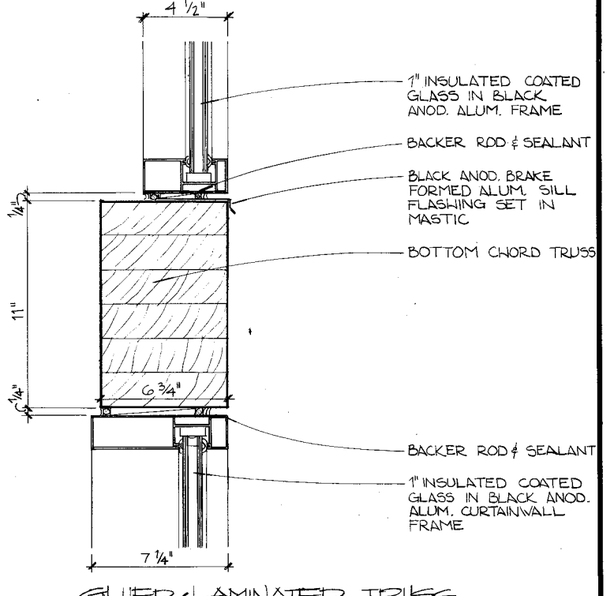
4 A19 GUTTER DETAIL 1½"=1'-0"



3 A19 RIDGE VENT DETAIL 3"=1'-0"



2 A19 ELEC. RACEWAY @ PURLINS 3"=1'-0"



1 A19 GLUED-LAMINATED TRUSS BOTTOM CHORD @ CURTAINWALL 3"=1'-0"

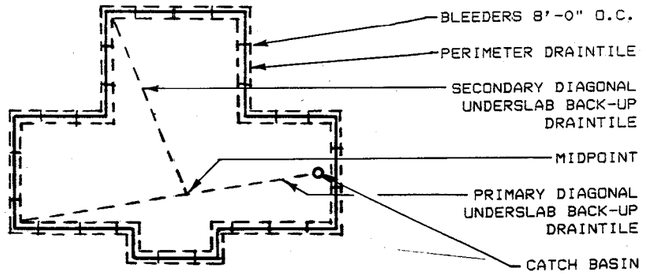
4/28/10

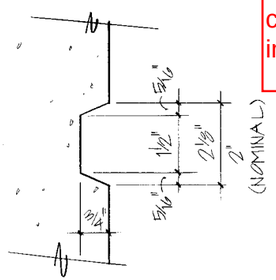
STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.24
SECTION DETAILS	A-20

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

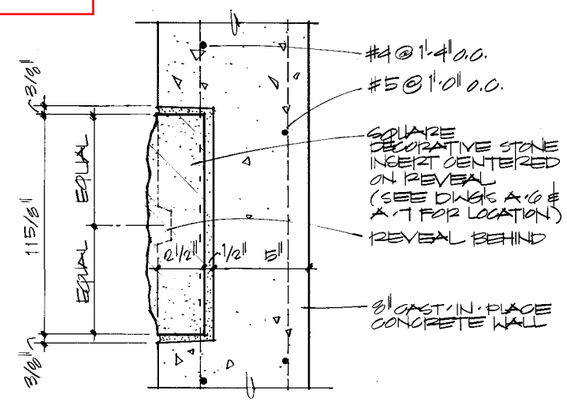
DRAIN TILE NOTE:
SECTION 02710 CONTRACTOR SHALL FURNISH AND INSTALL EXTERNAL AND INTERNAL PERIMETER DRAIN TILE SYSTEM WITH BLEEDERS @ 8'-0" O.C. CONNECT TO CATCH BASIN (CLEAR) PROVIDED BY PLUMBING CONTRACTOR. SECTION 02710 CONTRACTOR SHALL ALSO FURNISH AND INSTALL UNDERSLAB BACK-UP DRAIN TILES AS FOLLOWS:

INSTALL DIAGONAL FROM BUILDING CORNER OPPOSITE CATCH BASIN TO CATCH BASIN, AND FROM MIDPOINT OF THIS DIAGONAL TO OTHER OPPOSITE CORNER OF BUILDING. (SEE SCHEMATIC PLAN BELOW)

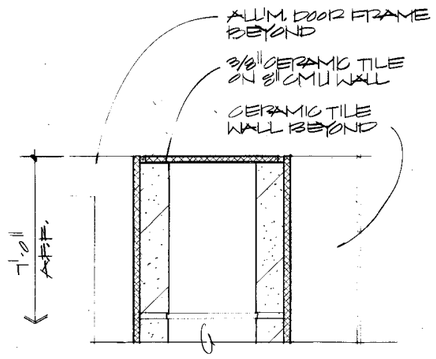




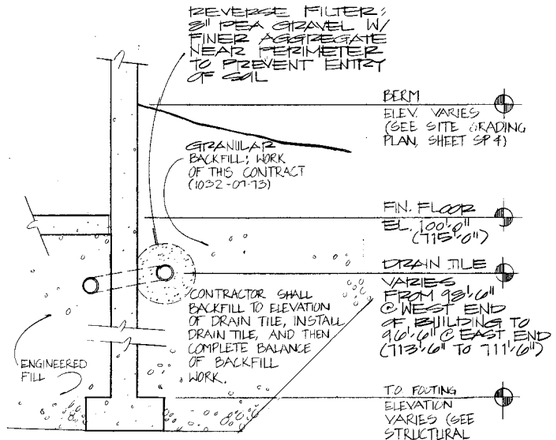
10 / A20 TYPICAL REVEAL DETAIL 6"=1'-0"



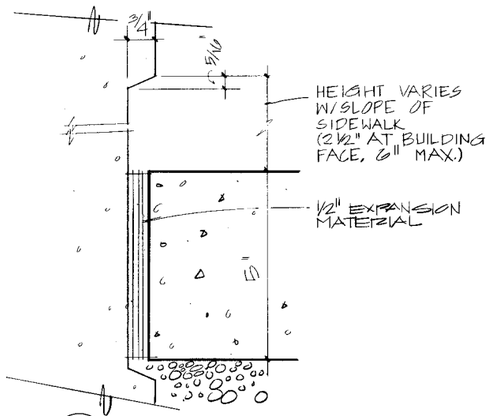
5 / A20 STONE INSERT DETAIL 1 1/2"=1'-0"



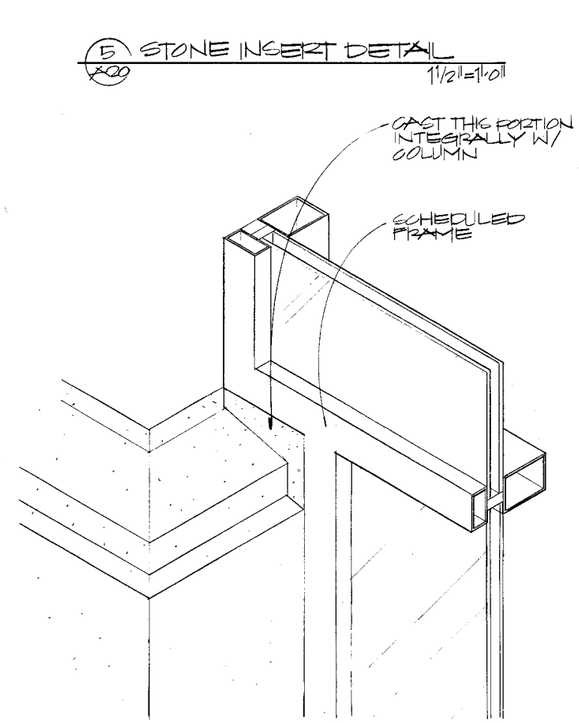
2 / A20 WALL CAP DETAIL 3"=1'-0"



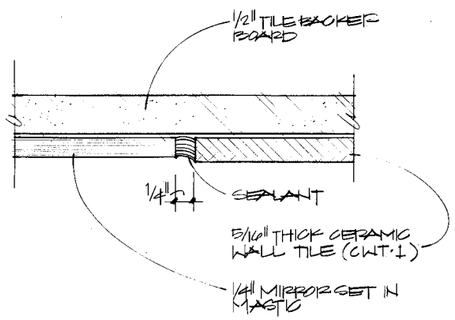
7 / A20 DRAIN TILE DIAGRAM



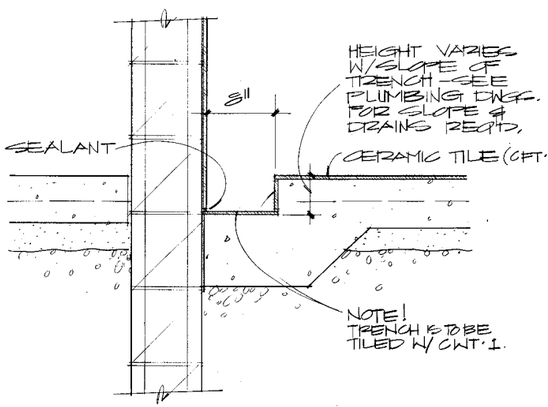
6 / A20 EXTERIOR BASE REVEAL 6"=1'-0"



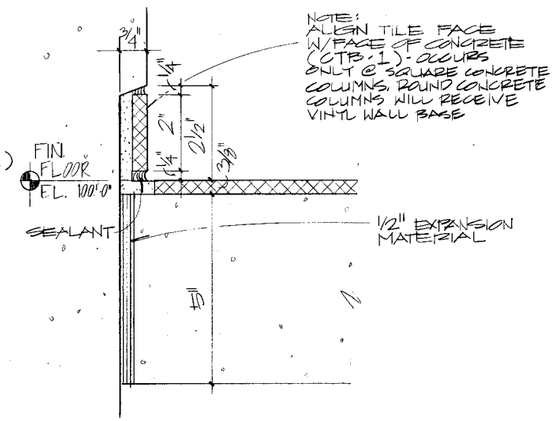
1 / A20 INFILL @ CONCRETE COLUMN CAPITAL 3"=1'-0"



4 / A20 PLAN DETAIL @ TILE/MIRROR FULLSCALE

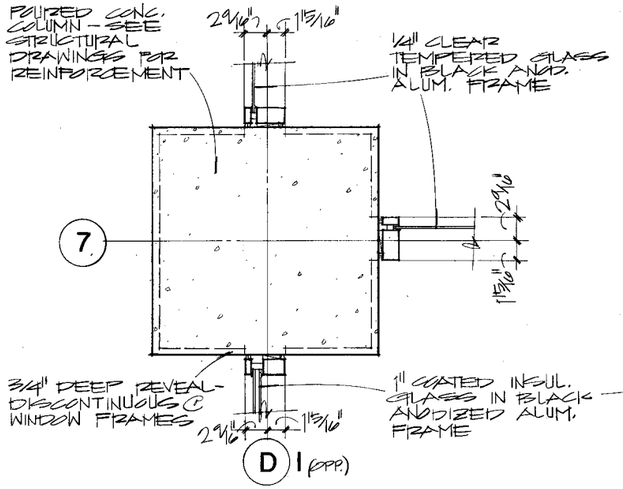


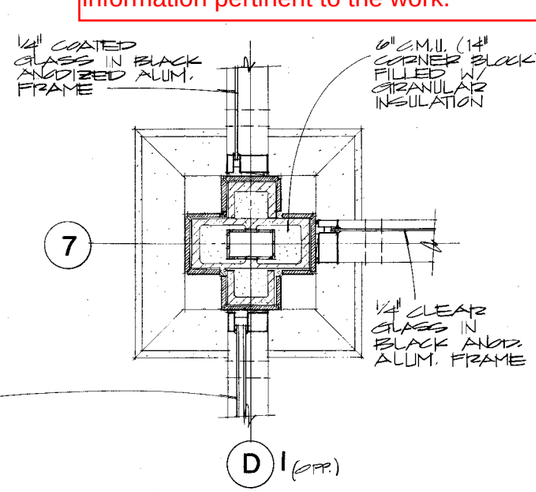
3 / A20 TRENCH DETAIL 1 1/2"=1'-0"

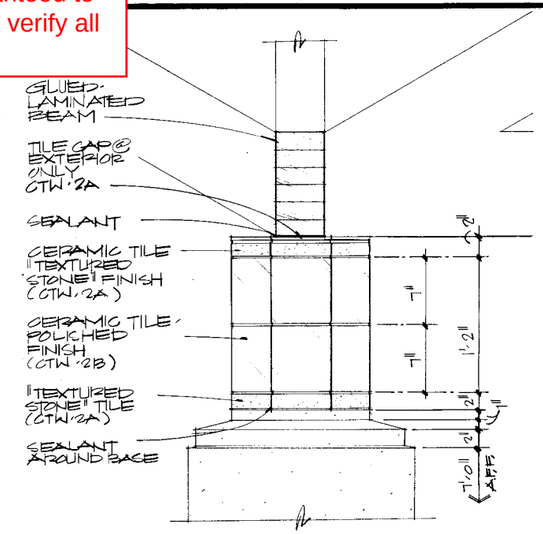


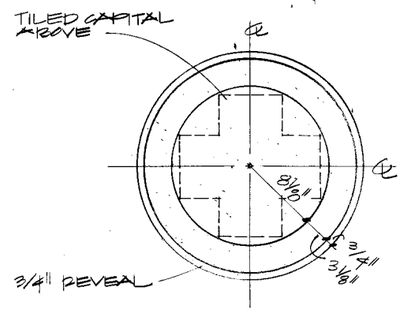
2 / A20 INTERIOR BASE REVEAL 6"=1'-0"

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.25
COLUMN PLAN DETAILS	A·21

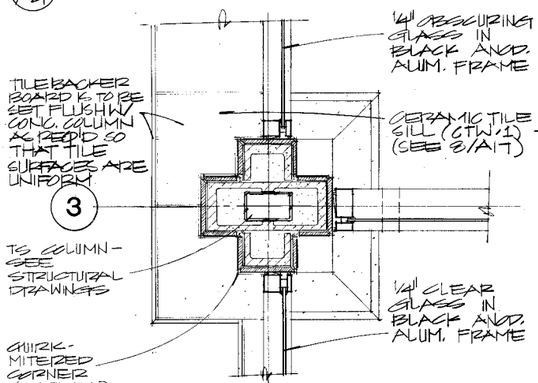


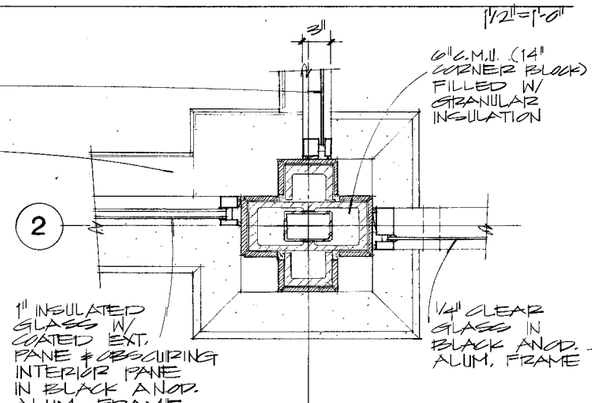




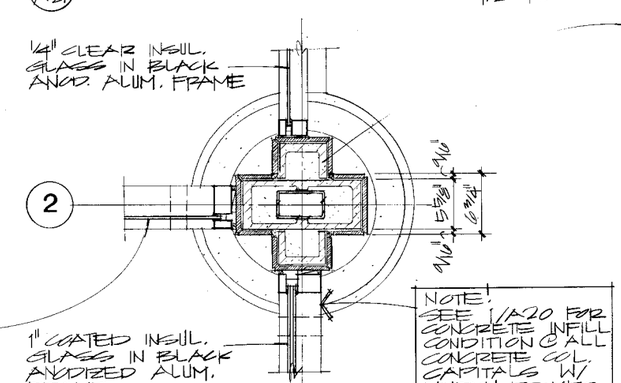


12 A21 COLUMN & CAPITAL @ 1/D — 1 1/2" = 1'-0"

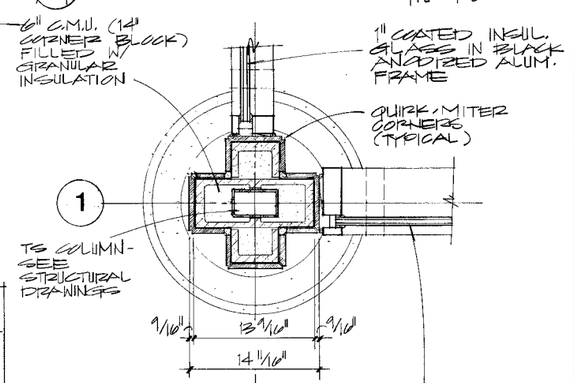


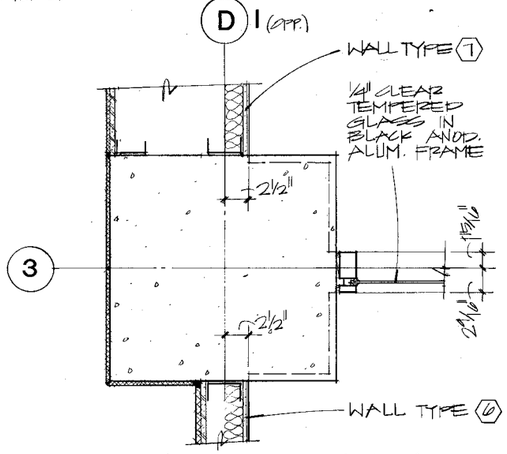


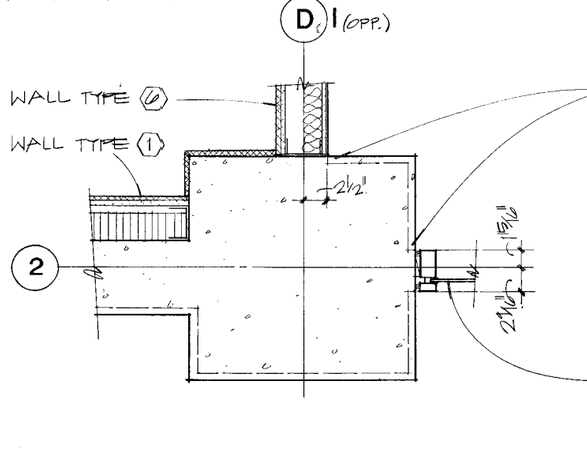
10 A21 TYP. COLUMN CAPITAL ELEV. — 1/2" = 1'-0"

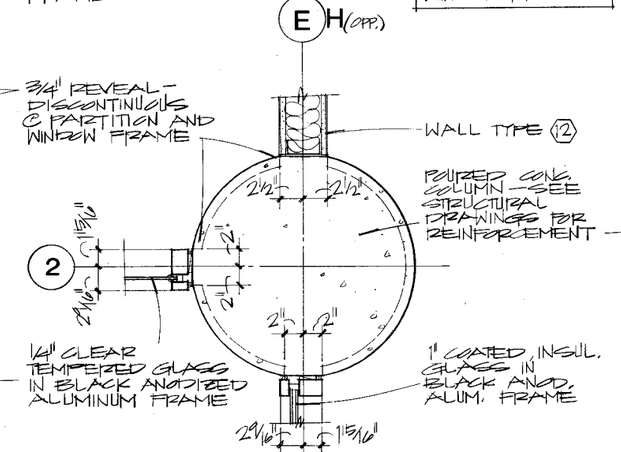


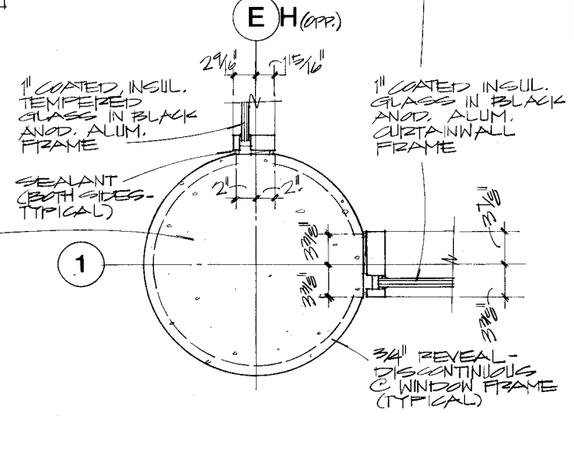
01 A21 CYLINDRICAL COLUMN DIAGRAM — 1 1/2" = 1'-0"











4 A21 COLUMN & CAPITAL @ 3/D — 1 1/2" = 1'-0"

3 A21 COLUMN & CAPITAL @ 2/D — 1 1/2" = 1'-0"

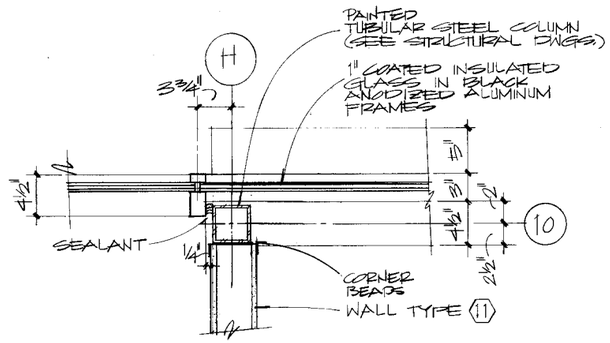
2 A21 COLUMN & CAPITAL @ 2/E — 1 1/2" = 1'-0"

1 A21 COLUMN & CAPITAL @ 1/E — 1 1/2" = 1'-0"

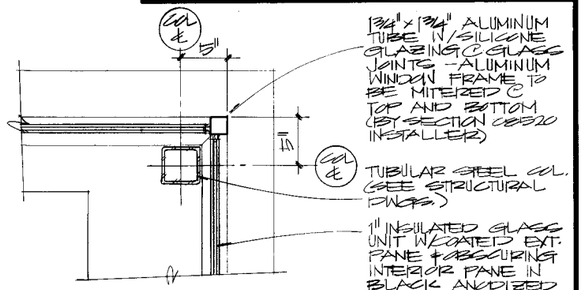
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.26

PLAN DETAILS A·22

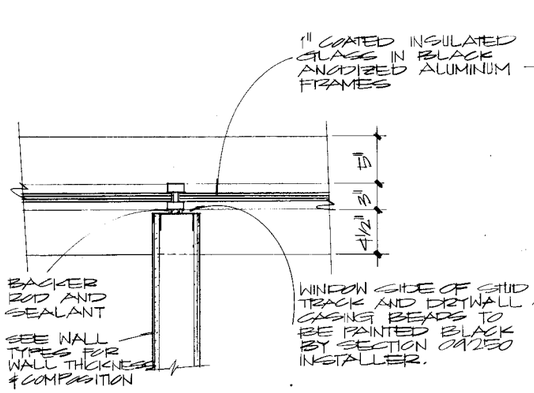
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



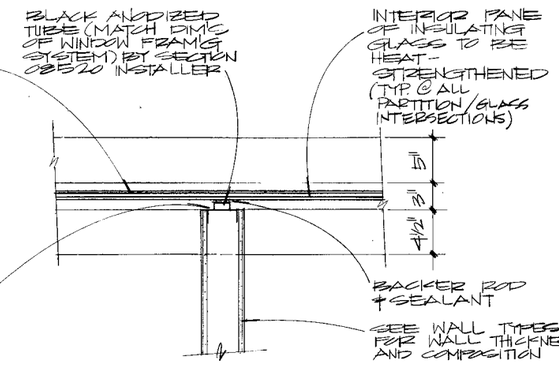
10 A22 WALL/JAMB DETAIL 1½"=1'-0"



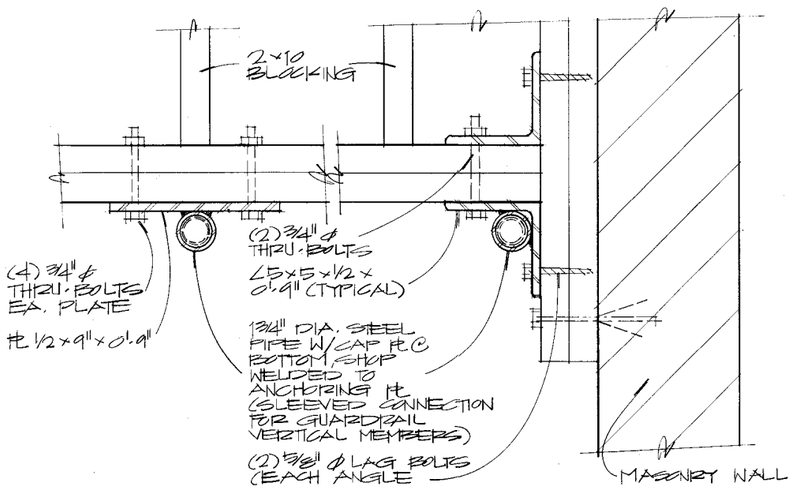
9 A22 CORNER/COLUMN DETAIL 1½"=1'-0"



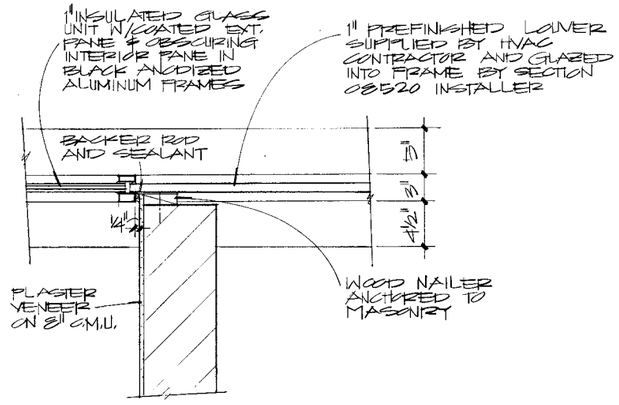
10 A22 WALL/MULLION INTERSECTION 1½"=1'-0"



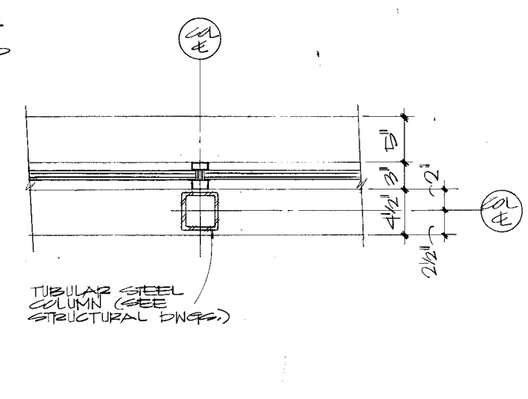
5 A22 WALL/GLASS INTERSECTION 1½"=1'-0"



3 A22 SLEEVED GUARDRAIL DETAILS 3"=1'-0"



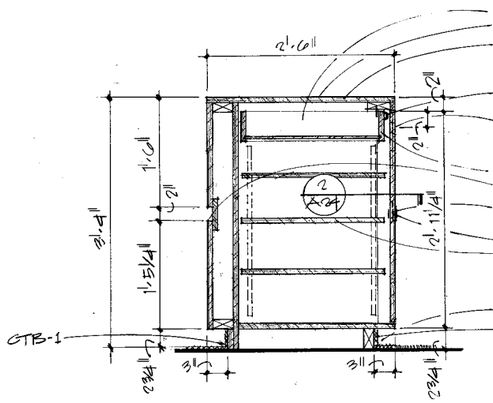
2 A22 MASONRY/LOUVER INTERSECTION 1½"=1'-0"



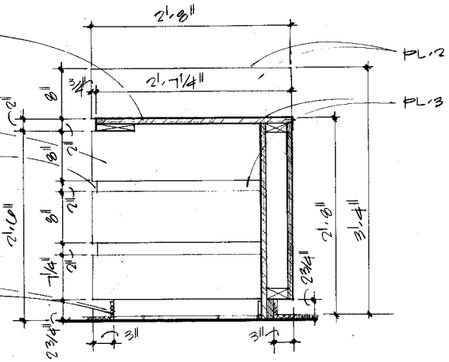
1 A22 COLUMN/MULLION DETAIL 1½"=1'-0"

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.27
INFORMATION DESK MILLWORK	A·23

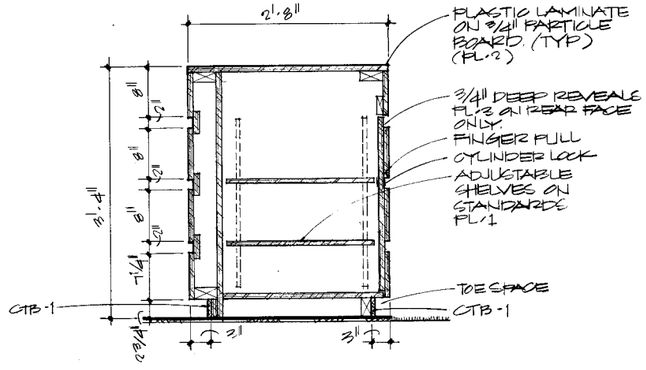
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



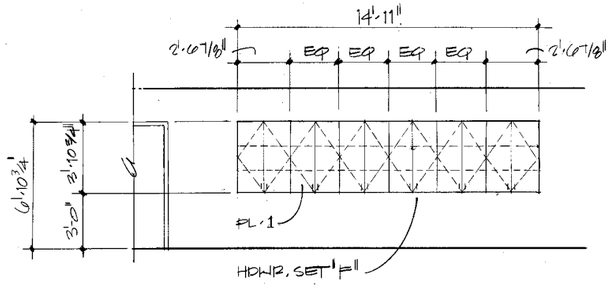
10 A23 INFORMATION DESK
1"=1'-0"



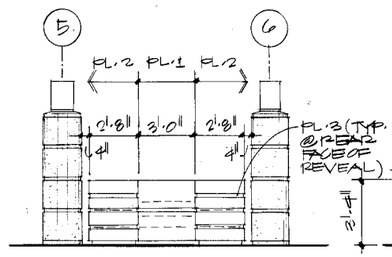
9 A23 HANDICAP COUNTER @ INFORMATION DESK
1"=1'-0"



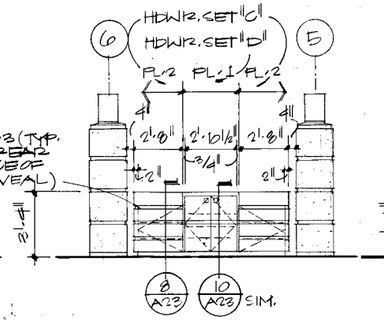
8 A23 SIDE INFORMATION DESK
1"=1'-0"



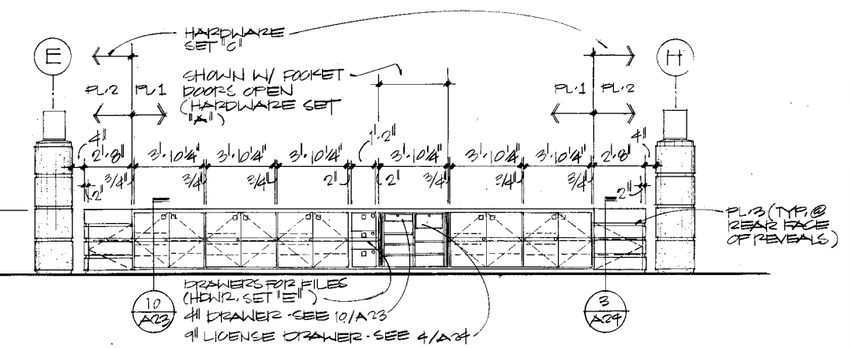
7 A23 REAR FACE OF INFORMATION DESK BROCHURE DISPLAY
1/4"=1'-0"



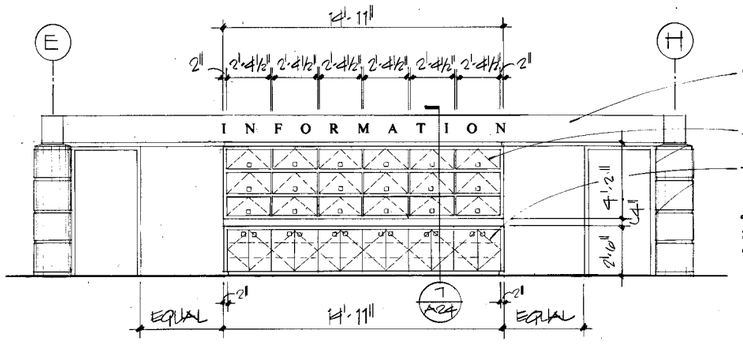
6 A23 FRONT OF SIDE INFORMATION DESK
1/4"=1'-0"



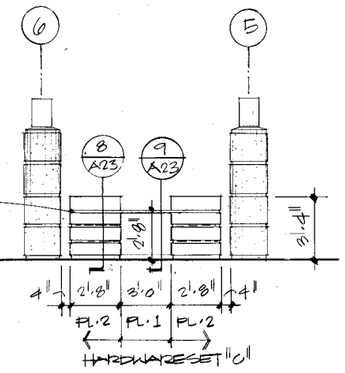
5 A23 REAR FACE OF SIDE INFO DESK
1/4"=1'-0"



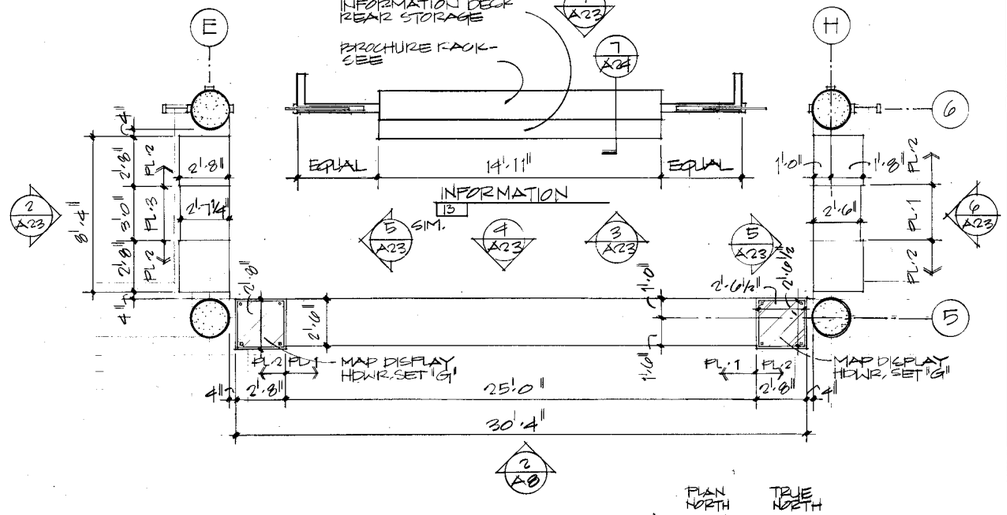
4 A23 REAR FACE OF INFORMATION DESK
1/4"=1'-0"



3 A23 BROCHURE RACK & STORAGE CABINETS @ INFORMATION DESK
1/4"=1'-0"



2 A23 HANDICAP COUNTER ELEVATION
1/4"=1'-0"



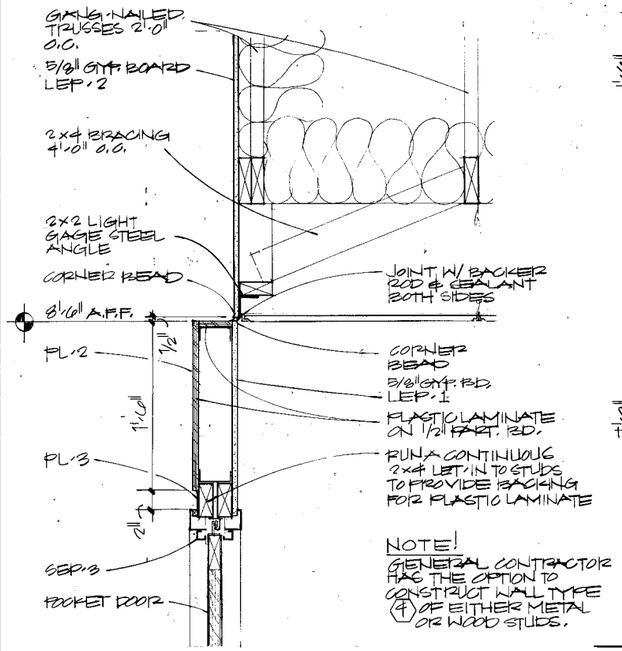
1 A23 PARTIAL PLAN @ INFORMATION DESK
1/4"=1'-0"

PLAN NORTH
TRUE NORTH

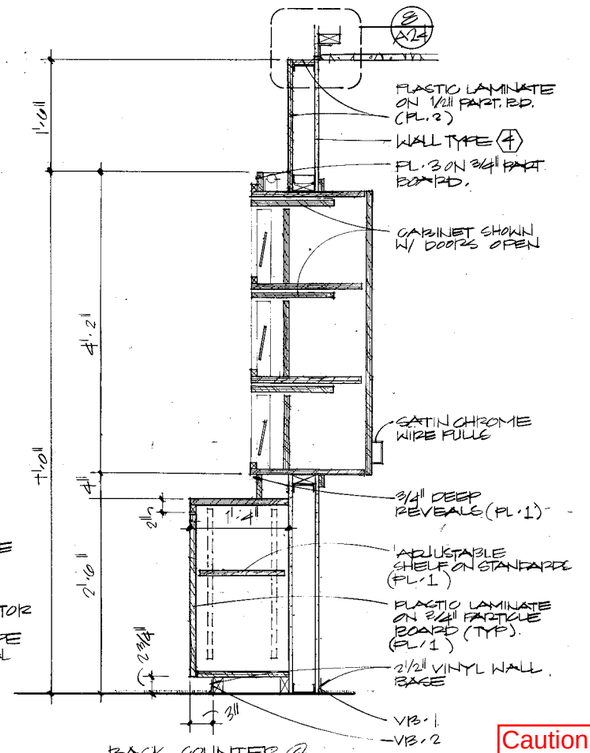
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.28

MILLWORK DETAILS

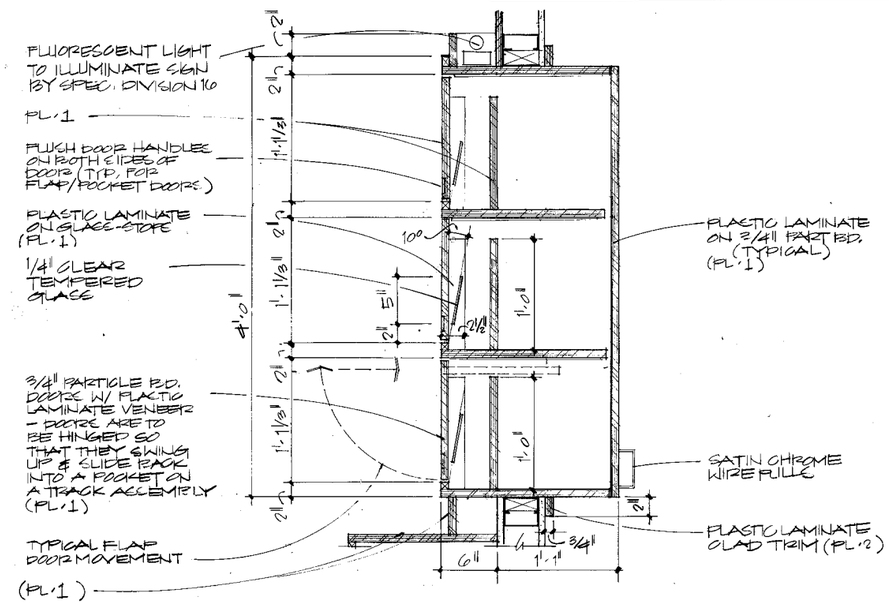
A·24

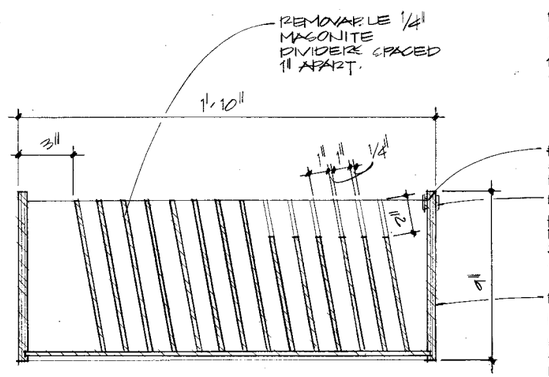


8 A24 POCKET DOOR HEAD/ WALL TYPE (4) DETAIL
1 1/2" = 1'-0"

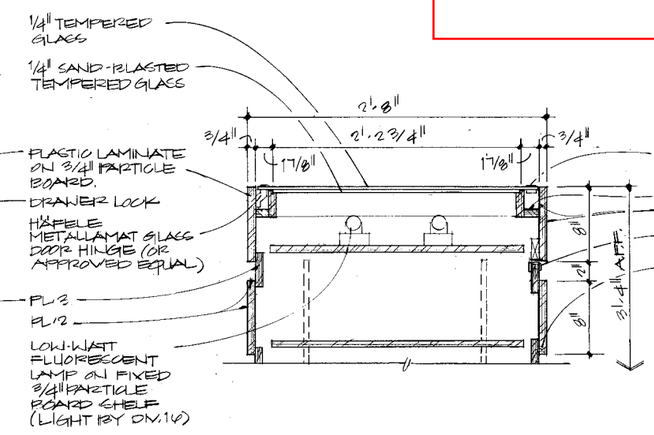


7 A24 BACK COUNTER @ INFORMATION DESK
REF: 3/A23
1" = 1'-0"

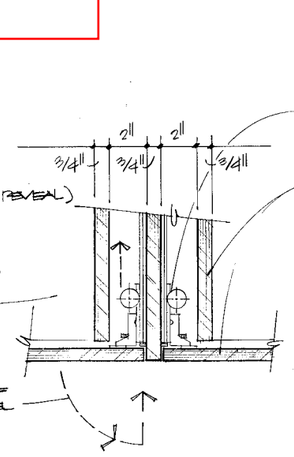




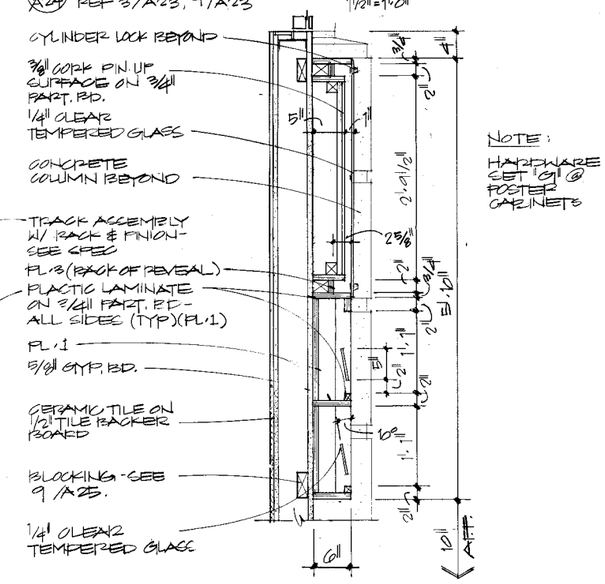
4 A24 LICENSE DRAWER DETAIL
3" = 1'-0"



3 A24 ILLUMINATED MAP DISPLAY CABINET
1 1/2" = 1'-0"



2 A24 POCKET-SLIDE DOOR HINGE DETAIL
3" = 1'-0"

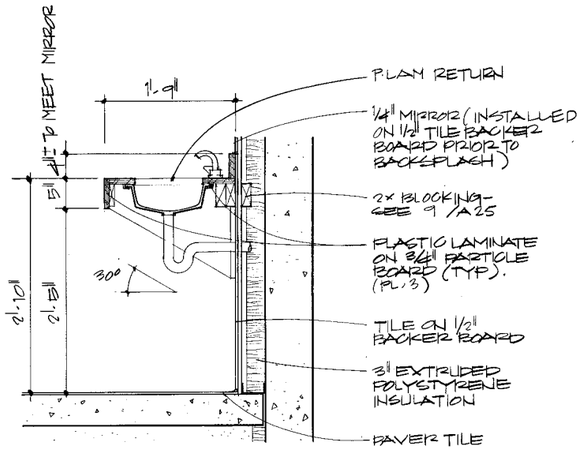


5 A24 SECTION @ PAMPHLET DISPLAY
REF 3/A23, 7/A23
1 1/2" = 1'-0"

1 A24 SECTION @ BROCHURE DISPLAY
1" = 1'-0"

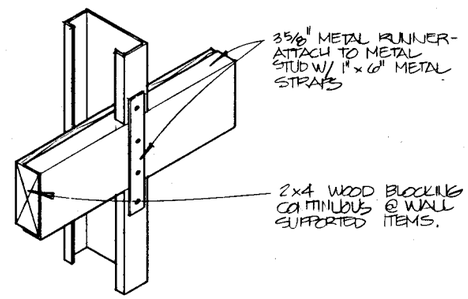
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.29
MILLWORK DETAILS	A·25

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

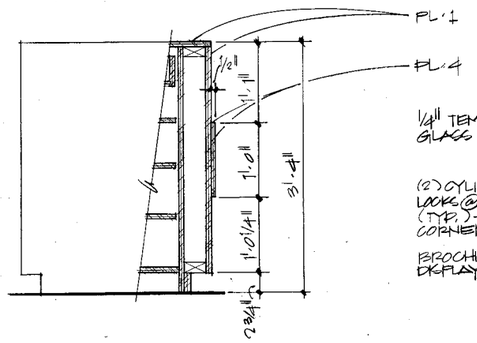


NOTE: LENGTH OF VANITIES TO MATCH LENGTH OF MIRRORS WITHIN 1/16".

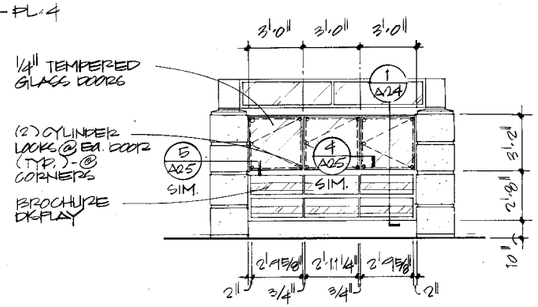
10/A25 SECTION THRU LAVATORY 1"=1'-0"



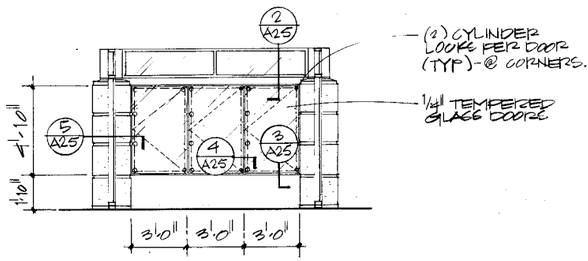
9/A25 DETAIL OF BLOCKING INSTALLATION (TYP.) NTS



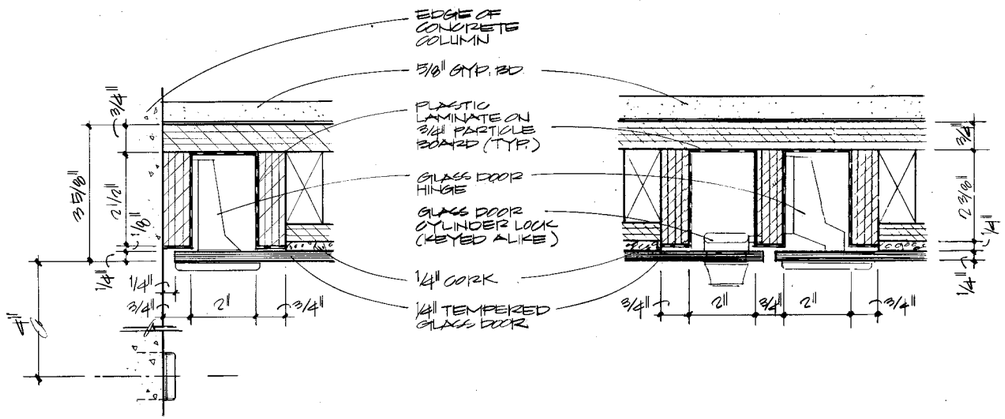
8/A25 SECTION THRU SQUARE DETAIL @ INFO DESK 1"=1'-0"



7/A25 BROCHURE DISPLAY CASE 1/4"=1'-0"

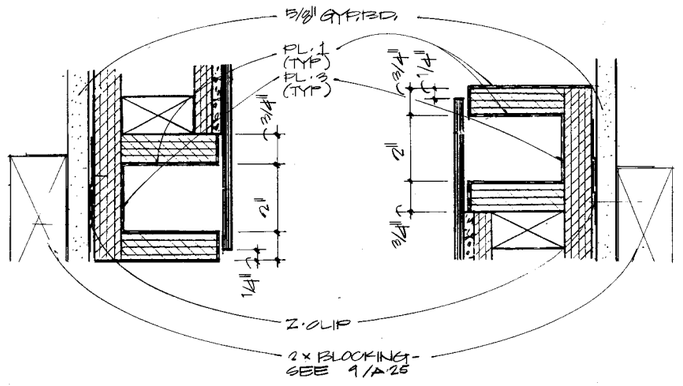


6/A25 MAP DISPLAY CASE 1/4"=1'-0"



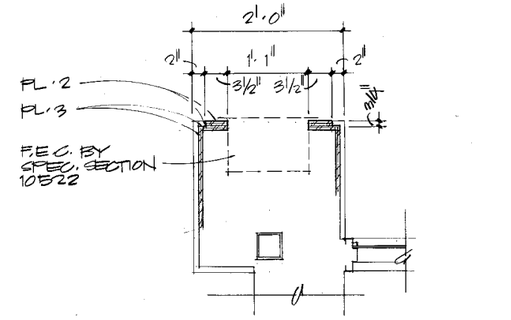
5/A25 SIDE RAIL DETAIL NTS.

4/A25 MIDDLE RAIL DETAIL NTS



3/A25 BOTTOM RAIL DETAIL NTS

2/A25 TOP RAIL DETAIL NTS

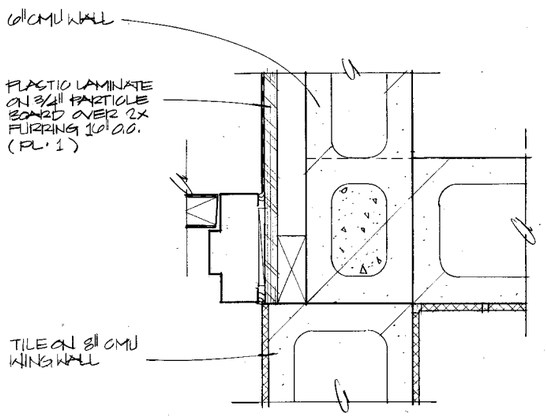


NORTH

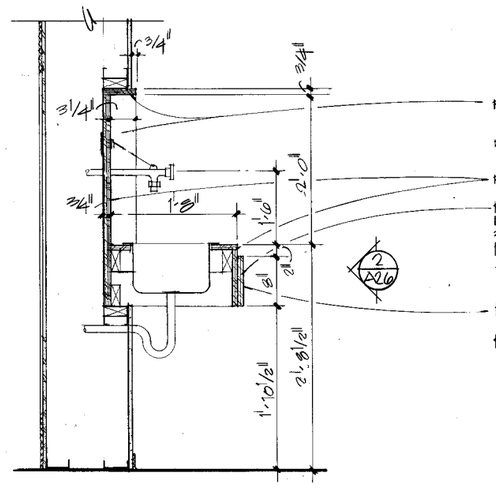
1/A25 DETAIL @ FIRE EXTINGUISHER CABINET 1"=1'-0"

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.30
TOILETROOM ALCOVE MILLWORK	A·26

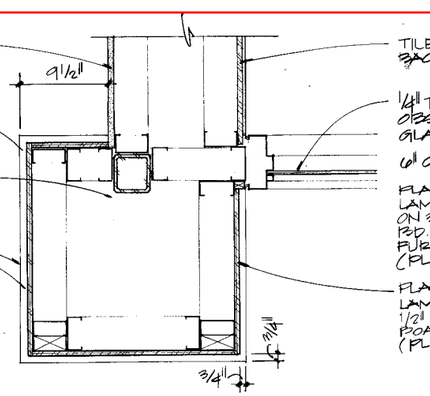
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



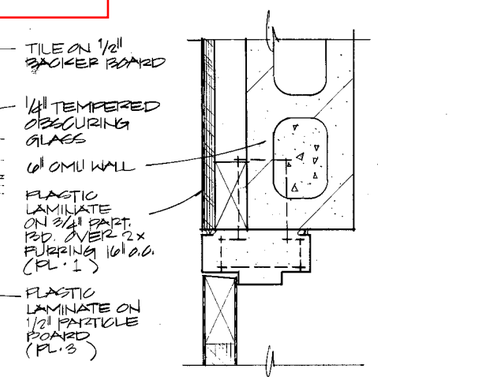
7 A26 PLAN DETAIL OF PLAM. WALL/ H.M. FRAME/WING WALL
REF 1/A·26 3"=1'-0"



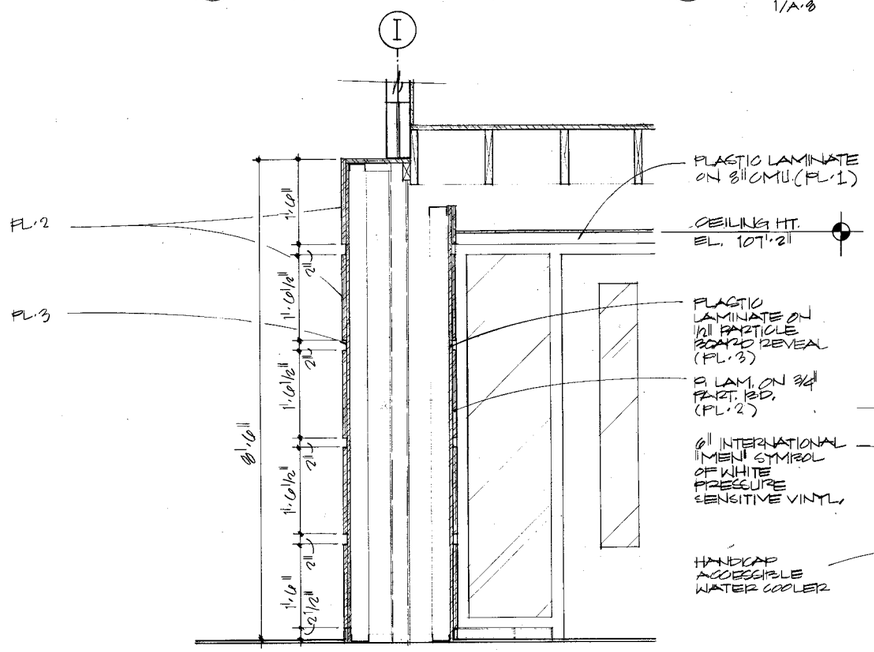
10 A26 JUG FILLER VANITY
REF: 1/A26, 2/A26, 1/A·8 SCL: 1"=1'-0"



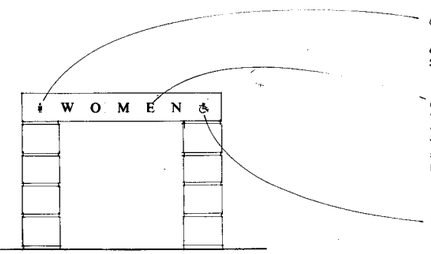
5 A26 PLAN DETAIL @ PLASTIC LAMINATE COLUMN
REF: A26, 1/A8 1 1/2" = 1'-0"



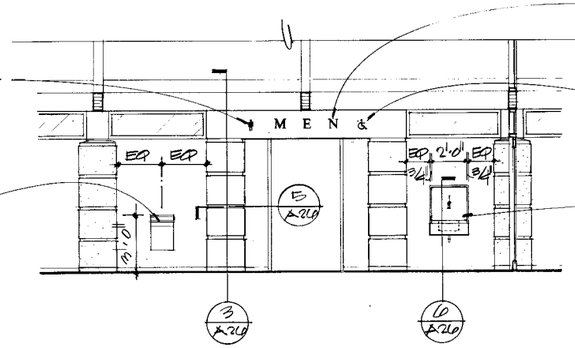
4 A26 DETAIL OF H.M. FRAME/ PL LAMINATE WALL
REF: 1/A26 3"=1'-0"



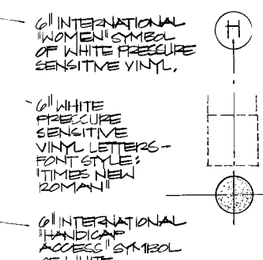
3 A26 SECTION THRU FLASTIC LAMINATE COLUMN
REF: A26, 2/A8 2/A13 3/4" = 1'-0"

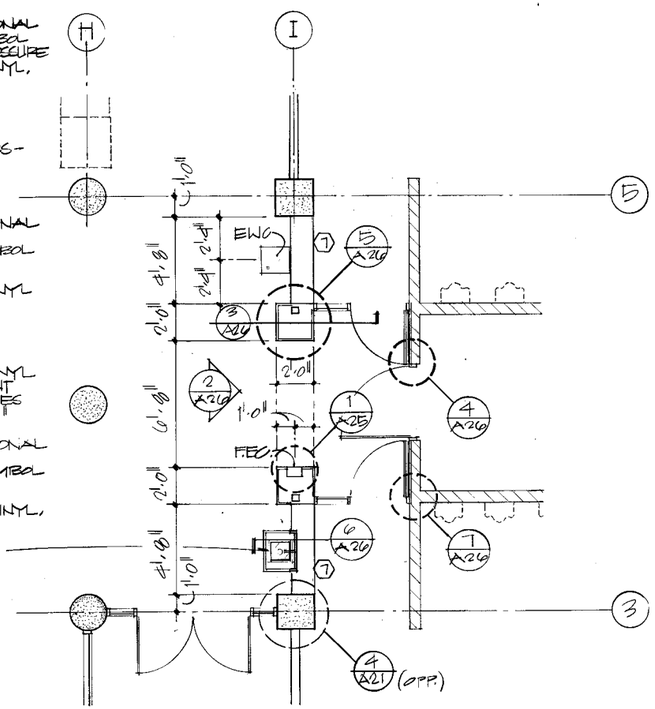


2A A26 WOMEN'S RESTROOM ENTRY SIGNAGE
1/4" = 1'-0"



2 A26 ELEVATION @ REST-ROOM ENTRY
REF A26, 1/A8. 1/4" = 1'-0"



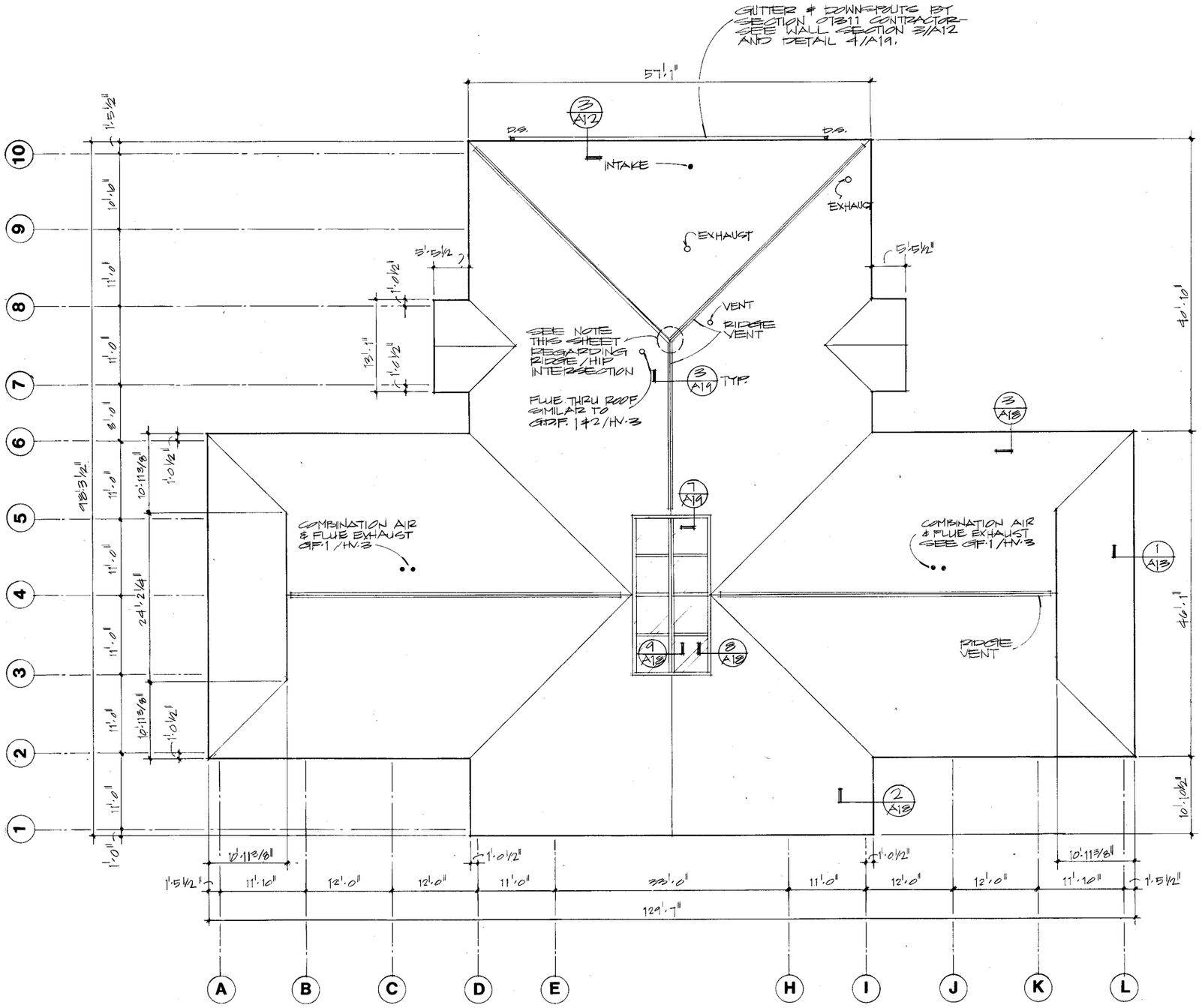


1 A26 PARTIAL PLAN @ PASSAGE # 09, #05 (OPP. HAND)
REF: A·2 1/4" = 1'-0"

Cat. No. 2130 – 0142

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.31
ROOF PLAN	A·27

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



1 A27 ROOF PLAN 1/8"=1'-0"

PLAN NORTH TRUE NORTH

ROOFING CONTRACTOR NOTE:
SECTION 07311 CONTRACTOR SHALL FURNISH AND INSTALL PREFINISHED, CUSTOM FABRICATED RIDGE VENT SHEET METAL @ RIDGE/HIP INTERSECTION, SEE ALSO NOTE @ SECTION 4/A19.

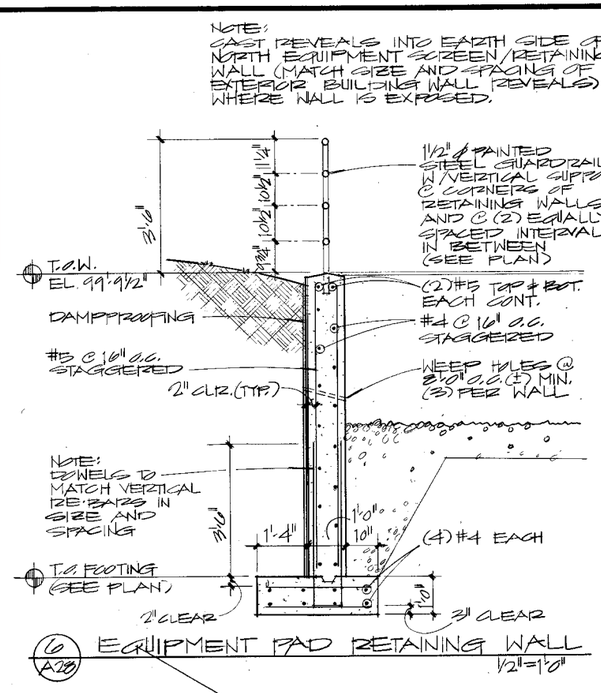
4/10/90

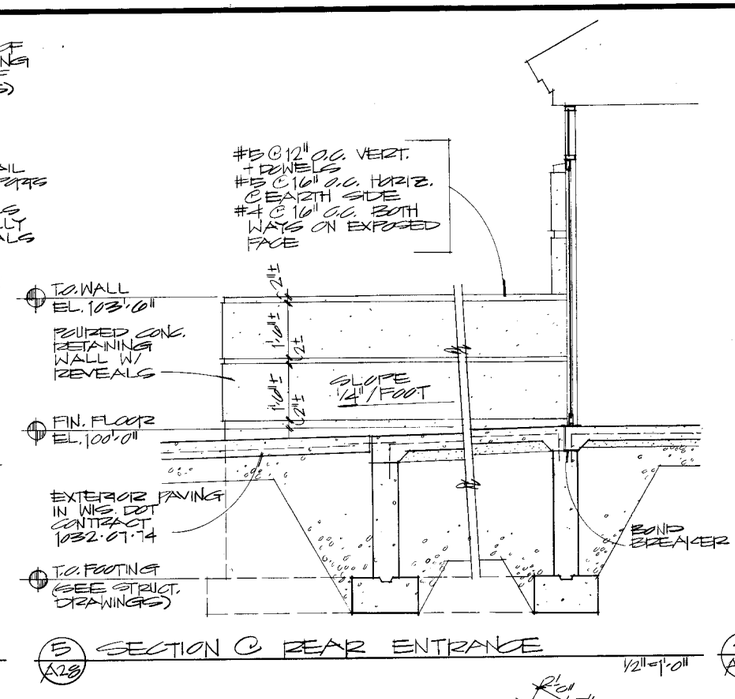
Cat. No. 2130 – 0142

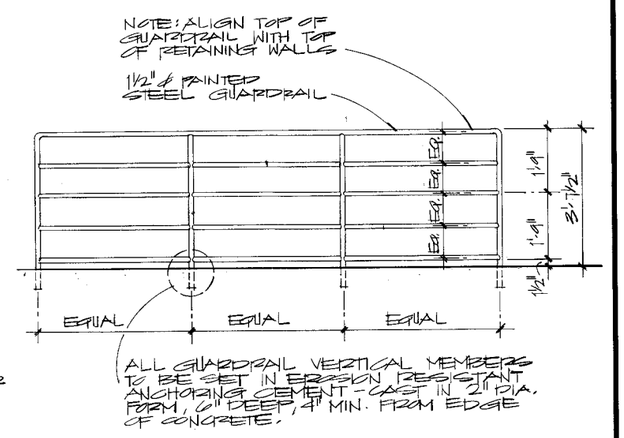
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

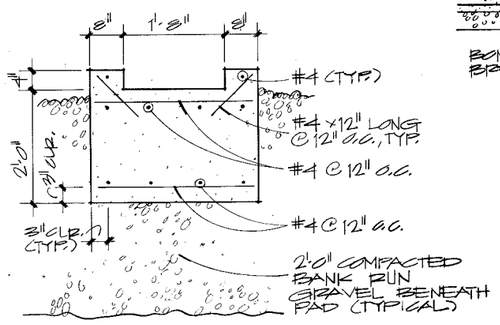
STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.32

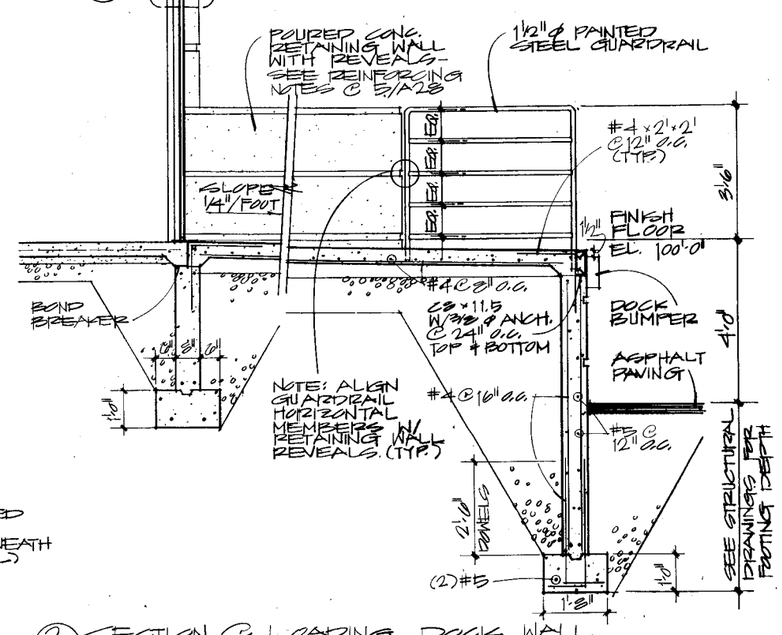
LOADING DOCK ENLARGED PLAN AND DETAILS A-28

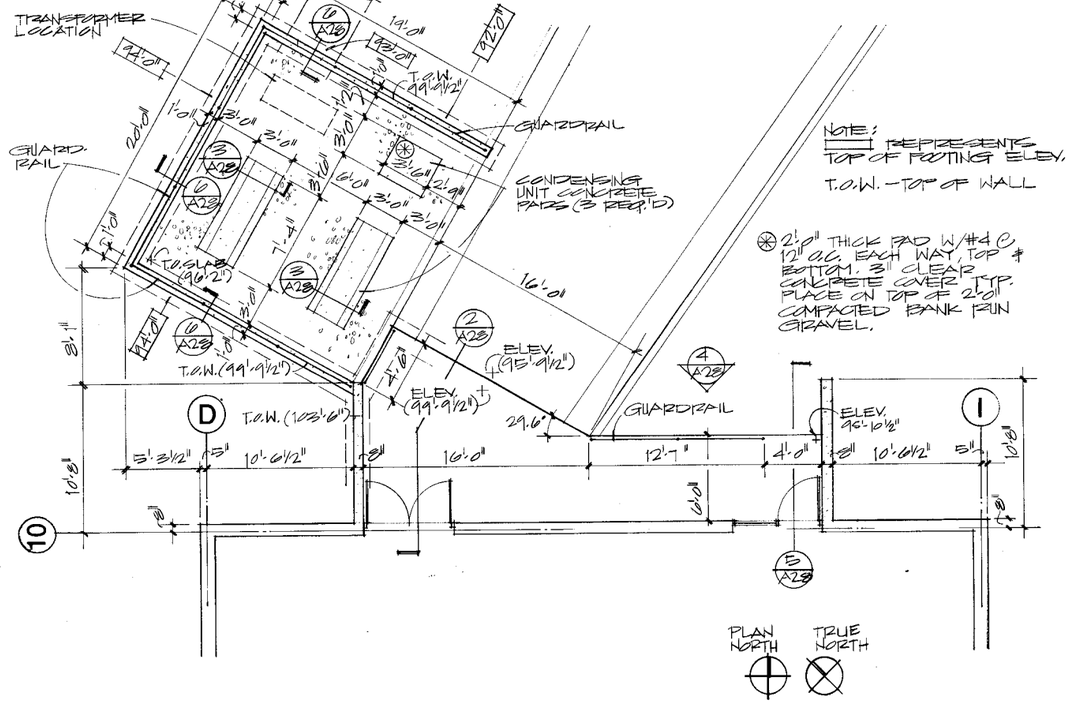








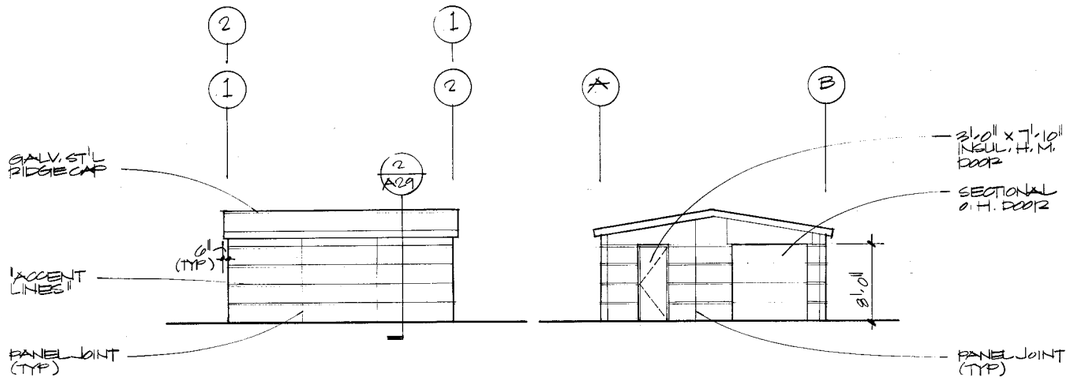




... No. 2130 – D142

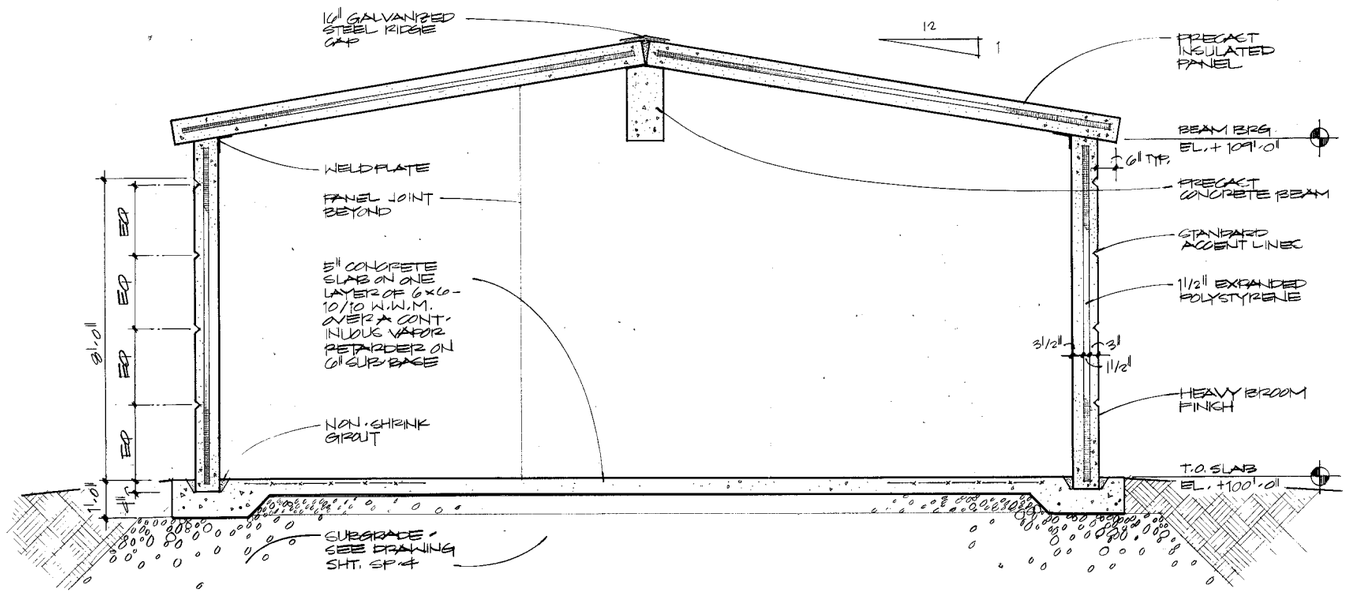
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.33
REMOTE MAINTENANCE BUILDING	A·29

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



4 A29 NORTH & SOUTH ELEVATION 1/8" = 1'-0"

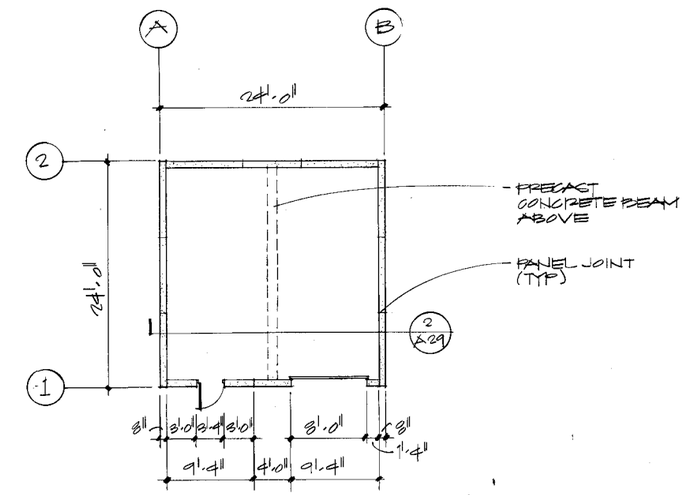
3 A29 WEST ELEVATION 1/8" = 1'-0"



2 A29 BUILDING SECTION 1/2" = 1'-0"

FINISH FLOOR ELEVATION:

SITE DATUM	710'-0"
ARCHITECTURAL DATUM	100'-0"

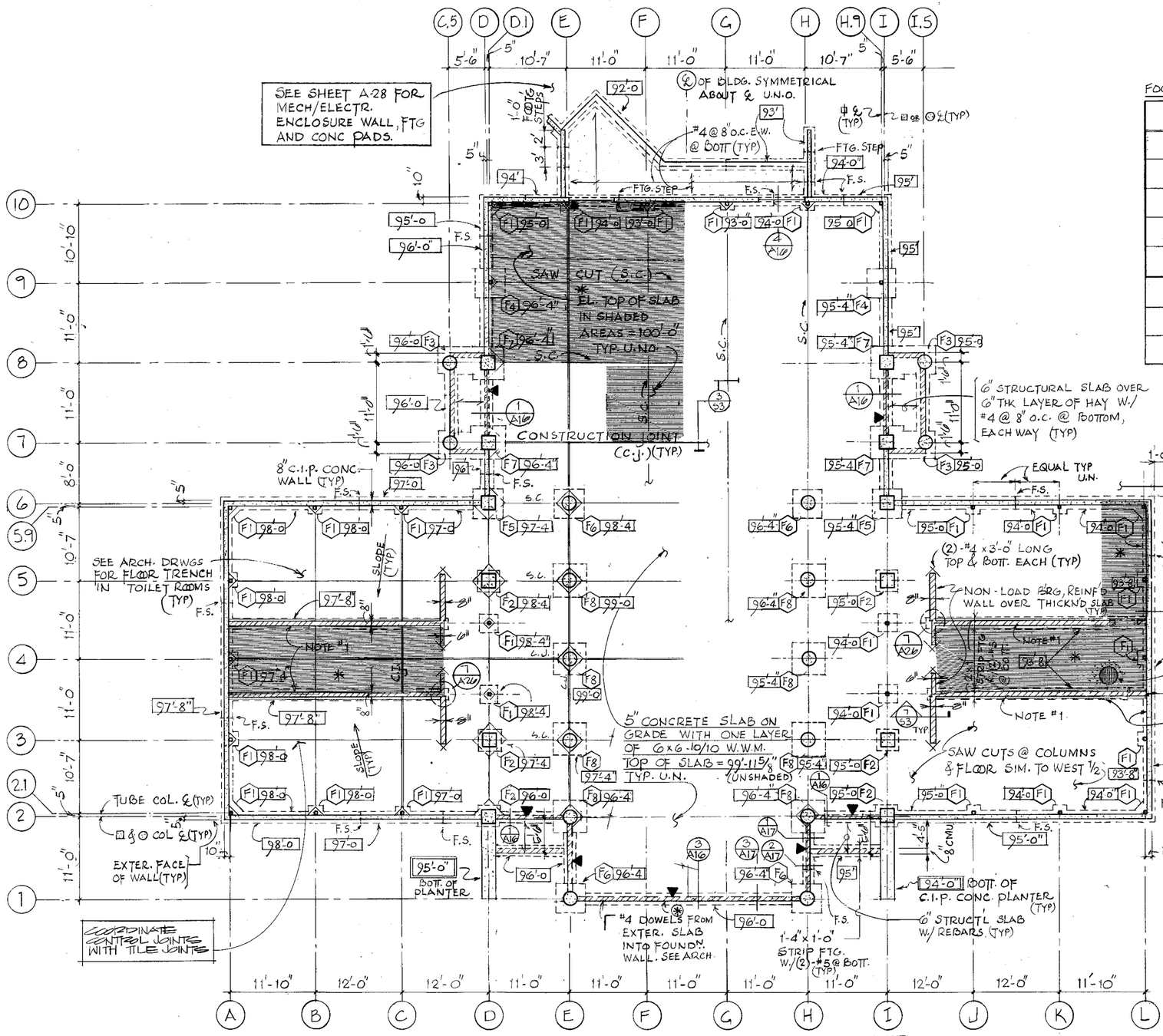


1 A29 FLOOR PLAN 1/8" = 1'-0"

NORTH

Vol. No. 2130 – D142

STATE PROJECT NUMBER	SHEET NO.
1032 07 73	2.34
FOOTING/FOUNDATION PLAN	S-1



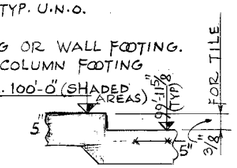
FOOTING/FOUNDATION PLAN

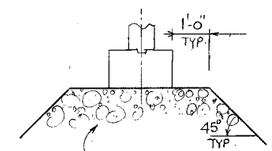
SCALE: 1/8" = 1'-0"

FOOTING AND COLUMN SCHEDULE. MIN. SOIL BEARING CAPACITY = 2,000 PSF. SEE BORING LOG.

FOOTING MARK	FOOTING SIZE	RE-BARS	COLUMN SIZE	COLUMN RE-BARS	BASE ℄	ANCH. BOLTS/DOWELS
F1	2'-6" SQ. x 1'-0"	UNREINFORCED FTGS.	TS 4"x4"x¼" ℄ "C1"	—	5/8"x10"x10" +1/4" SET ℄	(4) ¾"ø x 1'-0" + 3" HK ↑
F2	3'-0" SQ. x 1'-0"		C.I.P. CONC. "C3" 2'-0" x 2'-0" SQ. "C3"	(4)-#8 VERT. + #3 ▯@16" o.c.	—	(4)-#8 x 3'-0" + 8" HK JL DOWELS.
F3	3'-0" SQ. x 1'-0"		C.I.P. CONC. 2'-0" DIA. "C2"	(5)-#6 VERT. + #3 ⊙@16" o.c.	—	(5)-#6 x 3'-0" + 8" HK JL DOWELS
F4	4'-0" SQ. x 1'-4"		TS 4"x4" x¼ ℄ C1"	—	5/8"x10"x10" +1/4" SET ℄	(4) ¾"ø x 1'-0" + 3" HK ↑
F5	4'-0" SQ. x 1'-4"		C.I.P. CONC. "C3" 2'-0" x 2'-0" SQ.	SEE F2	—	SEE F2
F6	4'-0" SQ. x 1'-4"		C.I.P. CONC. 2'-0" DIA. "C2"	SEE F3	—	SEE F3
F7	4'-6" SQ. x 1'-4"		C.I.P. CONC. "C3" 2'-0" x 2'-0" SQ.	SEE F2	—	SEE F2
F8	4'-6" SQ. x 1'-4"		C.I.P. CONC. 2'-0" DIA. "C2"	SEE F3	—	SEE F3

NOTES:
- SEE ARCHITECTURAL DRAWINGS FOR MISSING DIMENSIONS.
- ℄ OF WALL = ℄ OF WALL FOOTING
- ℄ OF COLUMN = ℄ OF COLUMN FOOTING } TYP. U.N.O.
- ▭ REPRESENTS TOP OF COLUMN FOOTING OR WALL FOOTING.
- RUN RE-BARS OF WALL FOOTING THRU COLUMN FOOTING AT JUNCTURES.
- ELEVATION AT TOP OF SLAB ON GRADE





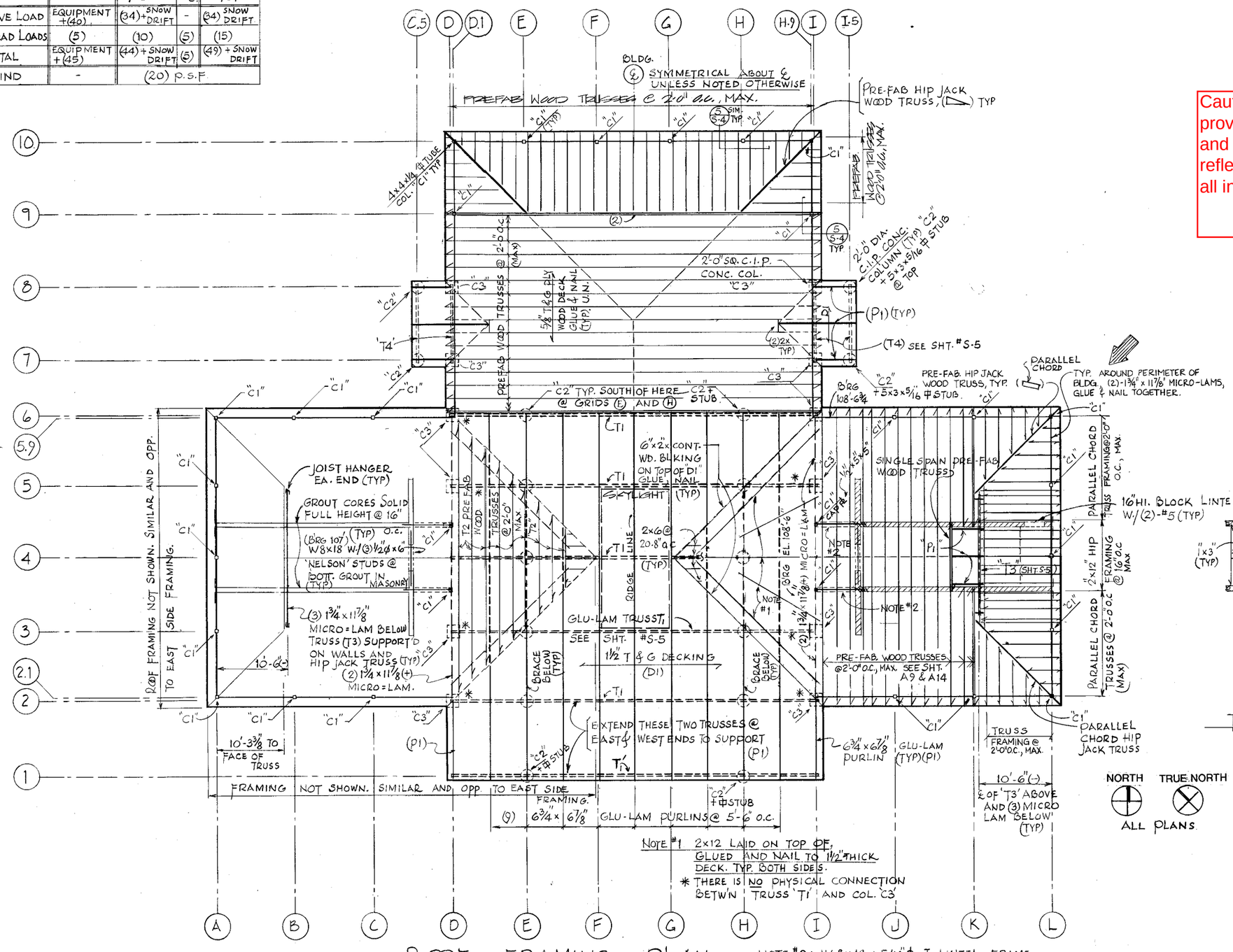
ENGINEERED FILL PROFILE WHERE NEEDED.

MASONRY CONTRACTOR:
SEE ARCHITECTURAL DRAWINGS W/ SECTIONS FOR LOCATIONS AND PLACEMENT OF MASONRY FOUNDATION WALLS.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER	SHEET NO.
1032 07 73	2.35
MEZZANINE LEVEL AND ROOF FRAMING PLAN	S-2

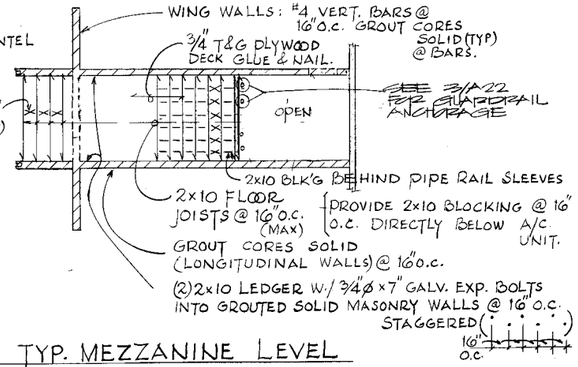
SUPERIMPOSED LOADS (PSF)				
	MEZZANINE	ROOF		
	-	T.C.	B.C.	TOTAL
LIVE LOAD	EQUIPMENT +(40)	(34)+SNOW DRIFT	-	(34) SNOW DRIFT
DEAD LOADS	(5)	(10)	(5)	(15)
TOTAL	EQUIPMENT +(45)	(44) + SNOW DRIFT	(5)	(49) + SNOW DRIFT
WIND	-	(20) P.S.F		



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTE #1 2x12 LAID ON TOP OF, GLUED AND NAIL TO 1 1/2" THICK DECK. TYP. BOTH SIDES.
* THERE IS NO PHYSICAL CONNECTION BETW'N TRUSS 'T1' AND COL. 'C3'

NOTE #2: W 8x18 +5/16 PL I LINTEL FRAME INTO SIDE OF 'C1'. (4) REQ'D. BRG. EL. 107'-0"



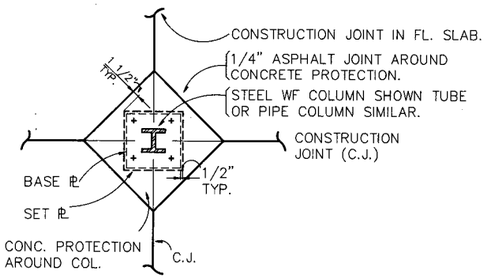
TYP. MEZZANINE LEVEL FRAMING PLAN
SCALE: 1/8" = 1'-0"

EAST MEZZANINE SHOWN. WEST MEZZANINE SIMILAR & OPPOSITE.

NORTH TRUE NORTH
ALL PLANS

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

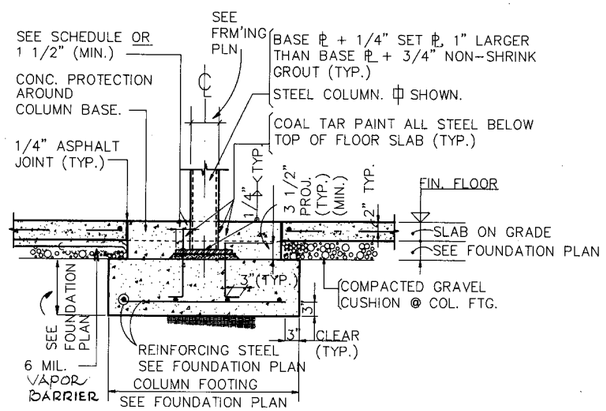
STATE PROJECT NUMBER	SHEET NO.
1032 07 73	2.36
DETAILS	S-3



SIMILAR DETAIL @ CONCRETE OR MASONRY COL.
USE W/ APPROPRIATE MODIFICATIONS.

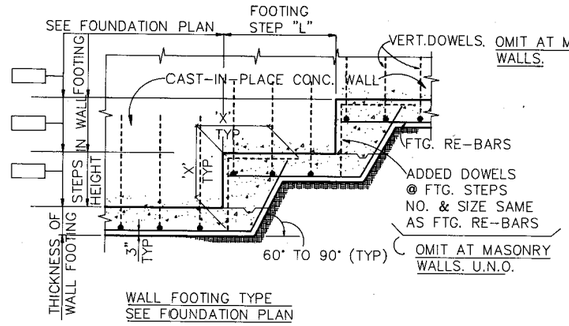
(1/S3) PLAN VIEW — NO SCALE

NOTE: SIMILAR DETAIL AT ⊞ OR ⌀ COLUMNS.
SIMILAR DETAIL @ CONCRETE COLUMN.



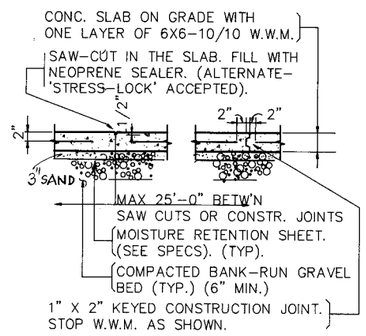
NOTE: SIMILAR DETAIL AT WF OR PIPE (⌀) COLUMNS.
SIMILAR DETAIL @ CONCRETE OR MASONRY COL.
USE W/ APPROPRIATE MODIFICATIONS.

(4/S3) TYP. COLUMN FOOTING DETAIL (INTERIOR COLUMN ONLY) — NO SCALE



NOTE: SIMILAR DETAILS AT TRENCH FOOTINGS.
OMIT VERTICAL DOWELS AT MASONRY WALLS U.N.O.

(2/S3) DETAIL AT STEPS IN WALL FTG. — NO SCALE



(3/S3) TYP. SAW-CUT & CONSTR. JT. IN FLOOR SLAB — NO SCALE

NOTE: PROVIDE 'PVC' WATER STOP @ EXTERIOR FACE WHEN NEEDED

NOTE: SIMILAR DETAILS AT TRENCH FOOTINGS AND GRADE BEAMS

(5/S3) TYP. CONSTR. JOINT IN WALL AND WALL FTG. — NO SCALE

(6/S3) TYP. CORNER REINF. IN WALL AND WALL FTG. — NO SCALE

(7/S3) THICKENED SLAB @ NON-LOAD B'RG INT. MASONRY WALL — NO SCALE

PLAN OR ELEVATION

(8/S3) TYP. ADDITIONAL RE-BARS @ OP'NGS IN WALLS — NO SCALE

NOTES FOR PREFABRICATED WOOD TRUSSES:

1. All prefabricated wood trusses shall be designed for the applicable loads & span parameters by the truss contractor. DILHR requires shop drawings with engineering data for such trusses with a stamp and signature of a registered professional engineer from the State of Wisconsin.
   The following data for wood trusses must be followed for the design.
   - Wood Truss Profile Data
     - See framing plans for superimposed design loads.
     - Truss spacing = (see framing plans)
     - Live load deflection: L/360 or better
2. Provide necessary temporary and permanent bracing/bridging for support of trusses. Follow appropriate erection procedures relative to number of trusses, erected temporary/permanent bracing/bridging based on prevailing weather conditions (wind, snow, ice, etc.). A/E shall not be responsible for any consequences for inadequate bracing/bridging.
3. Contractor shall adequately guy and brace all structural components to maintain safety and alignment during all phases of construction. Such guying and bracing shall remain in place until the structure has reached adequated strength and is permanently braced.

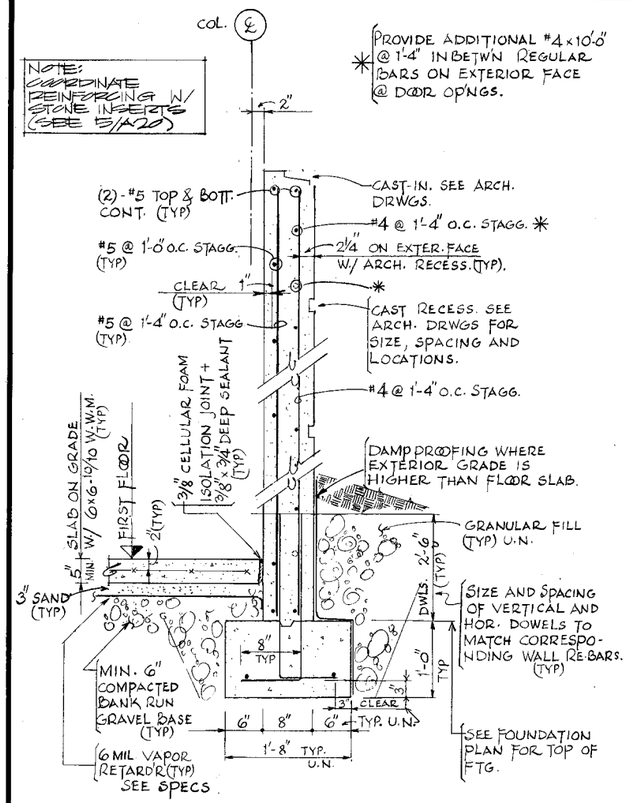
STRUCTURAL NOTES AND SPECIFICATIONS (AS APPLIES) FOR THE ENTIRE PROJECT:

1. Strength of Materials:
   - Concrete fc' = 4,000 psi (air-entrained for exposed to weather concrete)
   - Re-bars fs = 24,000 psi (Grade 60)
   - Masonry heavy aggregate concrete block below grade
   - Mortar Type 'S'
   - Structural and miscellaneous steel A36 U.N.O. (painted)*; tube and pipe sections 46 Ksi (painted)*
   - Connection bolts A325
   - Anchor bolts A307

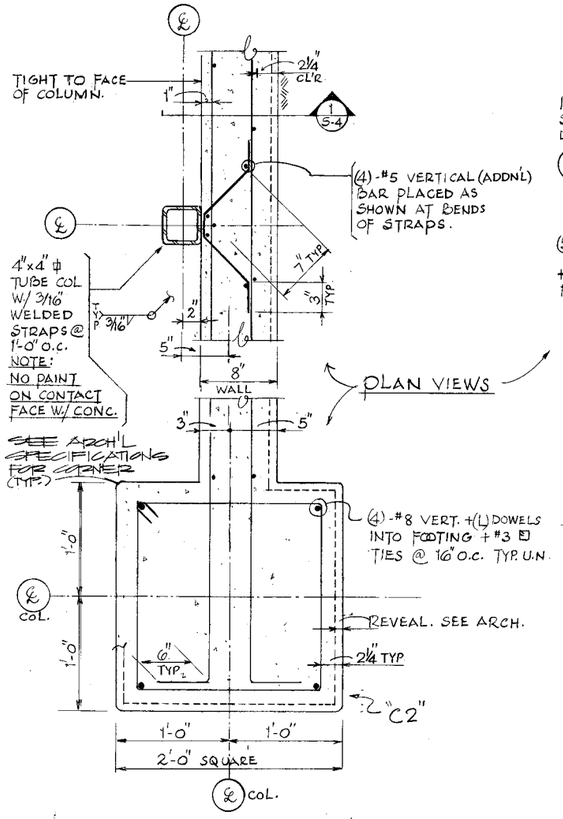
   * Steel encased in or in contact with masonry shall be painted with bituminous paint. Steel exposed to weather shall be prime painted with rust inhibitive paint.
   - Wood = 1,350 psi Douglas Fir #2 or better
   - Prefabricated structural wood (primarily in bending) (GLU-LAM)
     Fb = 2,400 psi; Fc⊥ = 450 psi (Tension face)
     Ft = 1,600 psi; Fc⊥ = 385 psi (Compression face)
     Fc = 1,500 psi; Fv = 165 psi
     E = 1,800,000 psi
   - Prefabricated structural wood for trusses (GLU-LAM)
     Fb = 2,600 psi; Fc⊥ = 650 psi
     Ft = 1,400 psi; Fv = 200 psi
     Fc = 1,200 psi; Eb = 1,800,000 psi
     Et = 1,700,000 psi
   - MICRO-LAM DATA:
     Fb = 2,500 psi
     fv = 285 psi
     E = 2,000,000 psi
   - Plywood shall be exterior type w/ exterior glue (DX) 'DFPA' trademark stamped.
2. Minimum soil bearing capacity = 2,000 psf for wall ftg. and 2,000 psf for column footings. (soil boring log, if available, will become part of the construction documents.)
3. Follow latest ACI, CRSI, and all applicable loads.
4. Follow latest AISC Code for design, fabrication and erection of structural and miscellaneous steel.
5. New concrete footings shall rest at elevation shown on foundation plan. ▭ represents top of column footing or wall footing.
6. Steel fabricator shall punch 7/16" diameter holes @ 2'-0" +/- o.c. for wood anchorage where wood is attached to structural & miscellaneous steel.
7. If for some unforeseen reason it becomes necessary to drop a column footing, Concrete Contractor shall provide a suitable concrete pier with minimum reinforcing per ACI. 16" sq. pier w/ (8)-#6 + #3 ⊞ ties.
8. Concrete Contractor shall be responsible for coordinating and providing concrete platforms/pedestals for electricals and mechanicals as and where required. Provide 1/2" isolator joint between pads and floor slab.
9. At no place shall the thickness of the floor slab be less than specified. Concrete Contractor to locate and provide recesses in floor slab for plumbing, electricals and mechanicals.
10. See architectural drawings for additional dimensions and information.
11. Abbreviate U.S(N.).O. on drawings means "UNLESS SPECIFIED (NOTED) OTHERWISE".
12. All steel columns shall, unless specified otherwise, have 3/4" cap and base plate with (4) 3/4" ø bolts.
13. Contractor shall adequately guy and brace all structural components to maintain safety and alignment during all phases of construction. Such guying and bracing shall remain in place until structure has reached adequate strength and is permanently braced.
14. Some of these details are generic and others are anticipated to be used in future. Use them as and where appropriate.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

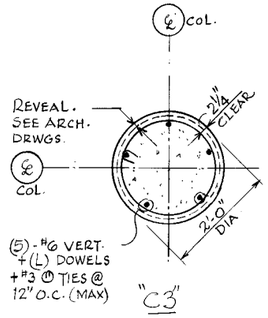
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.37
DETAILS	S-4



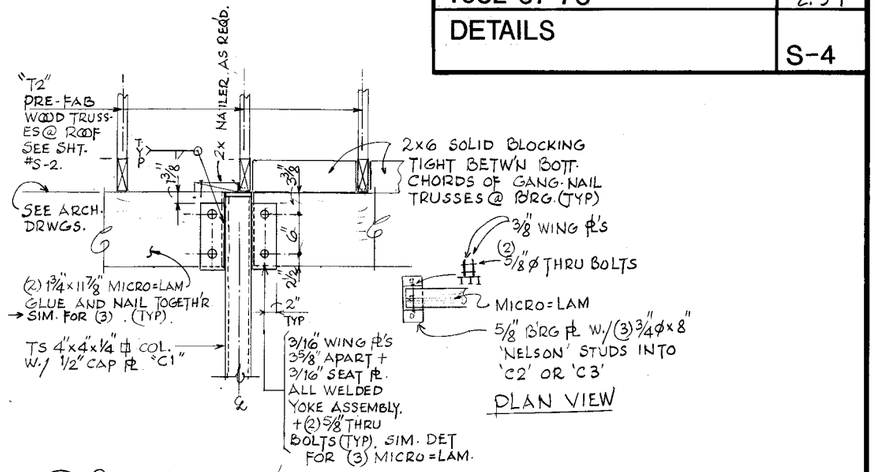
1 S-4 SECTION THRU C.I.P. CONC. WALL
SCALE: 1" = 1'-0"



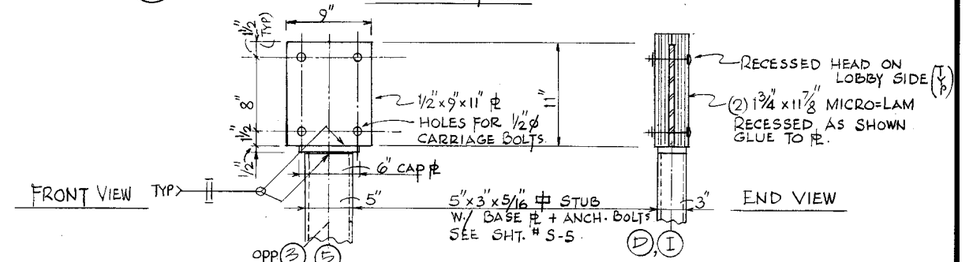
2,3 S-4 DETAILS AT STEEL COL/CONC. COL & WALL
SCALE: 1½" = 1'-0"



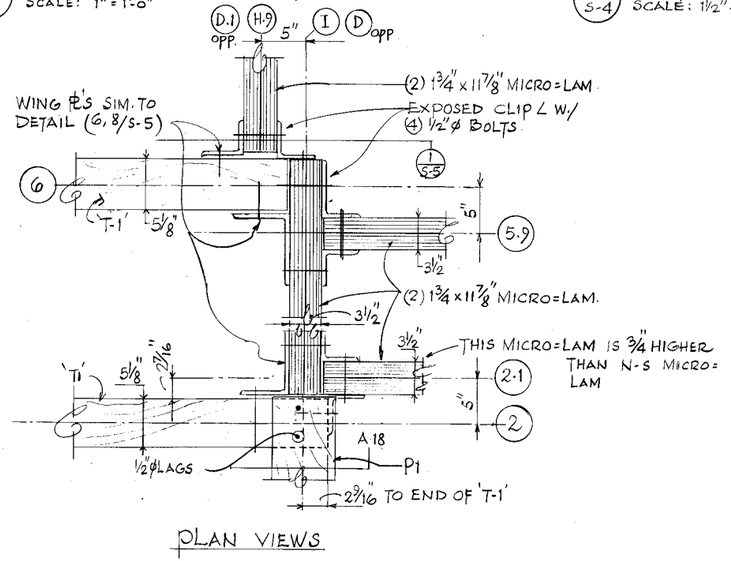
4 S-4 C.I.P. CONC. COL.
SCALE: 3/4" = 1'-0"



5 S-4 ROOF TRUSSES/BEAM & COL. CONNECTION
SCALE: 1" = 1'-0" (T2)



6 S-4 STUB COLUMN AND 'MICRO=LAM' AT COL CAPITOL
SCALE: 1½" = 1'-0"
SIM. DETAIL AT GRIDS (4.5) AND (3.5) AT (D) & (I)

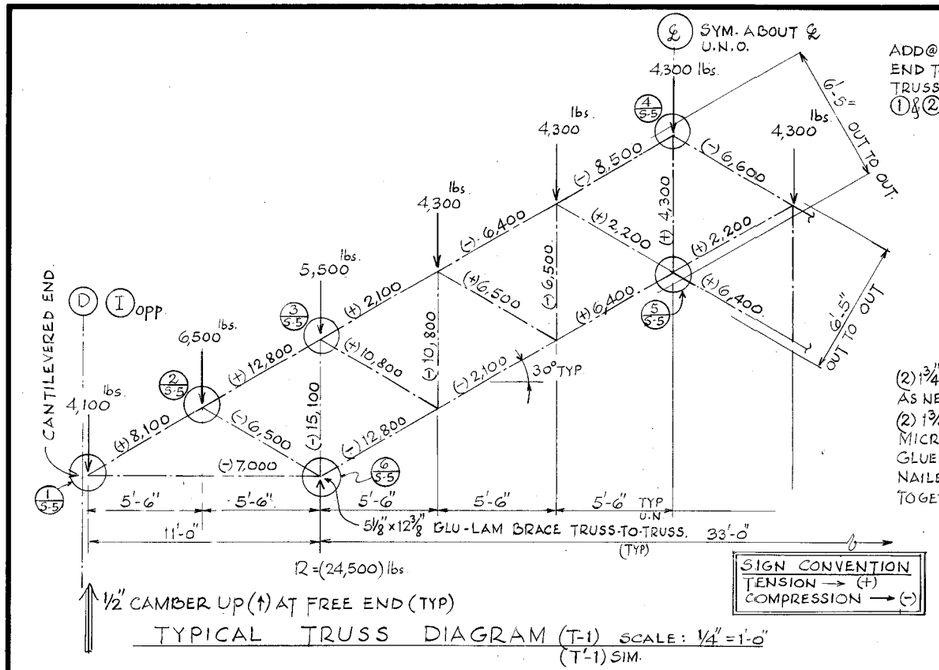


PLAN VIEWS

7 S-4 CONNECTION DETAILS - T-1 & MICRO=LAMS
SCALE: 1½" = 1'-0"

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER	SHEET NO.
1032 07 73	2.38
TRUSS DETAILS (MORE DETAILS ON SHT.#S-4)	S-5



TYPICAL TRUSS DIAGRAM (T-1) SCALE: ¼"=1'-0"
(T'-1) SIM.

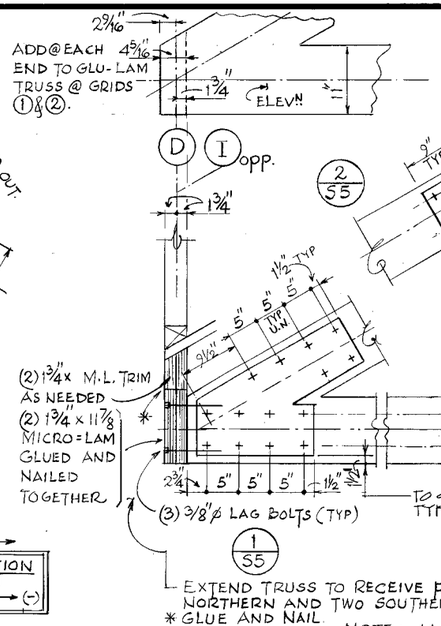
TYPICAL MEMBER SIZES FOR ALL GLU-LAM TRUSSES.

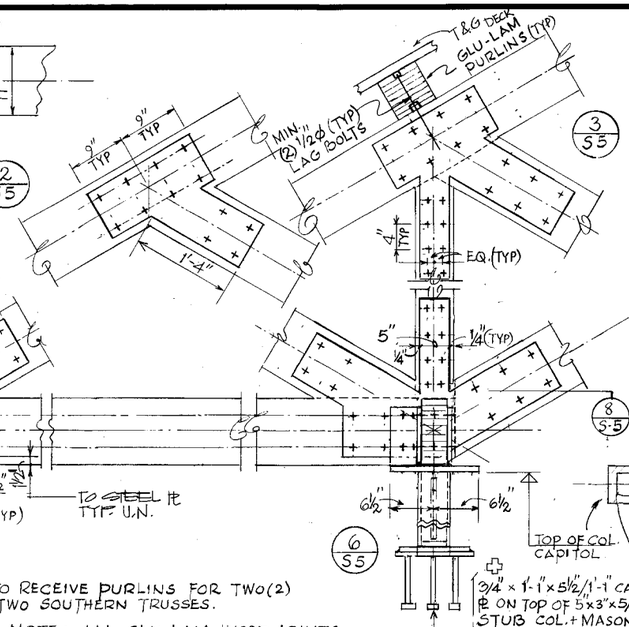
- TOP CHORD, BOTTOM CHORD & DIAG. WEBS = 5⅛"x11" (6¾"x11" FOR T'-1)
- VERTICAL WEBS = 5⅛"x5½" GLU-LAM.
- ROOF PURLINS ABOVE TRUSS (T1) = 6¾" x 6⅞" GLU-LAM WITH 1½"x1½" RECESS FOR UNISTRUT WHERE NOTED.
- BOTTOM CHORD BRACING = 5⅛"x12⅜" GLU-LAM. CAMBER ½"
- 2x6 T&G WOOD DECKING (MIN. TWO SPAN CONT.) (ARCHITECTURAL GRADE)
- GUSSET ℄'S 5/16" MIN GALV., PAINTED W/ COLOR SELECTED BY ARCHITECT. + 5/8"ø THRU BOLTS GALV.
- GUSSET ℄'S ARE ON BOTH FACES OF EVERY GLU-LAM TRUSS.
- USE TREATED WOOD FOR EXPOSED TO WEATHER MEMBERS.

TRUSS DIAGRAM NOTES:

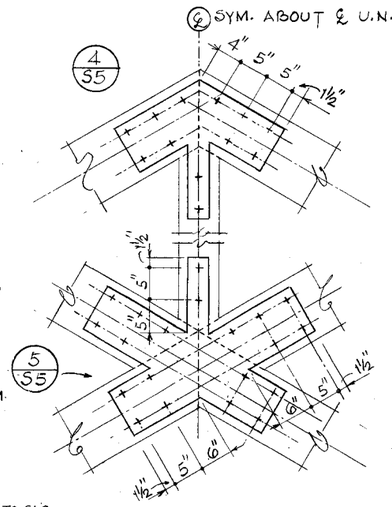
- LOAD AND STRESSES SHOWN ABOVE ARE IN POUNDS AND REPRESENT MOST CRITICAL COMBINATION FOR VARIOUS DESIGN COMBINATION.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



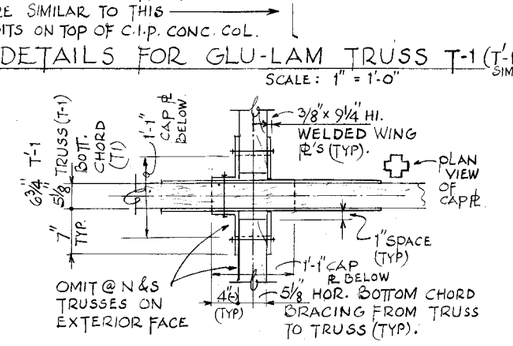


NOTE:
- ALL GLU-LAM WOOD JOINTS SHALL BE TIGHT.
- ALL GUSSET ℄'S SHALL BE ONE PIECE.
- ALL COLUMN CAPITOLS SUPPORTING WOOD ✠ ARE SIMILAR TO THIS →
- STUB COL SITS ON TOP OF C.I.P. CONC. COL.

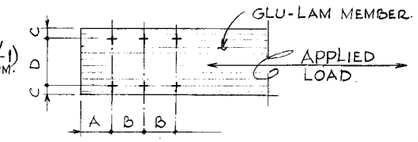


✠ ¾" x 1'-1" x 5½" / 1'-1" CAP ℄ ON TOP OF 5"x3"x5/16" ✠ STUB COL. + MASONRY TIES. + BASE ℄ + SET ℄ (SEE 9/S-5). SHOP WELD ⅜ WING ℄'S (100%) TO CAP ℄ (SEE 8/S-5'). +5/8"ø THRU BOLTS. NOTE: WING ℄'S ARE ON TOP OF TRUSS GUSS. ℄ (TYP)

TYPICAL JOINT DETAILS FOR GLU-LAM TRUSS T-1 (T'-1) SIM.
SCALE: 1" = 1'-0"

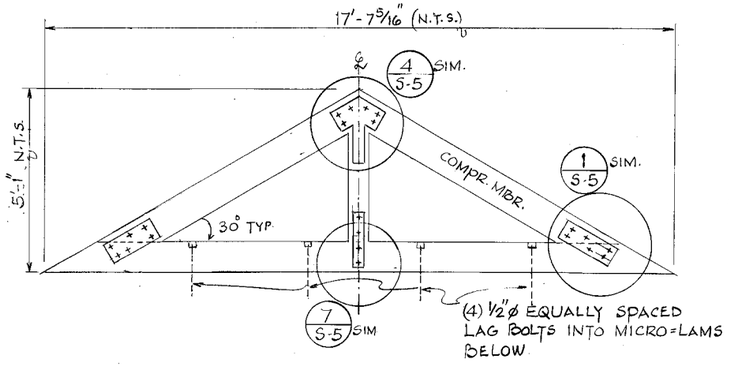


8 S-5 PLAN VIEW - BOTT. CHORD BRACE TO TRUSS "T-1"
SCALE: 1"=1'-0" (T'-1) SIM.



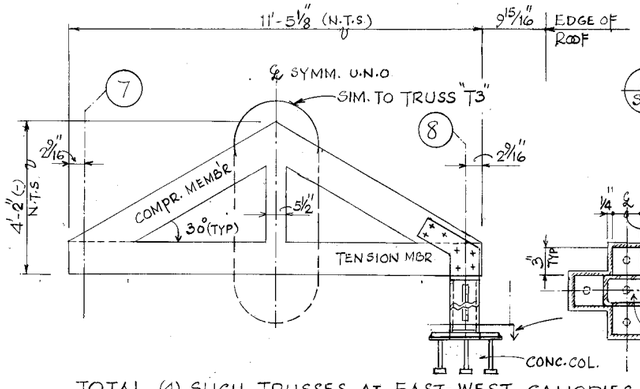
A → 5" MINIMUM IN TENSION MEMBERS.
→ 2½" MINIMUM IN COMPRESSION MEMBERS
B → 2½" MIN.
C → 1½" MIN. TO WOOD
→ 1¼" MIN. TO STEEL
D → 2½" MIN. IN ALL MEMBERS.

DIMENSIONS SHOWN ON DETAILS WILL GOVERN.



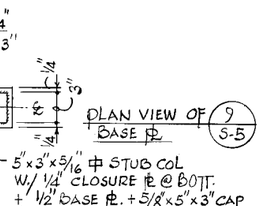
TOTAL (2) SUCH TRUSSES @ LOUVERS

11 S-5 TYPICAL GLU-LAM TRUSS T-3 ELEVATION
SCALE: ½" = 1'-0"



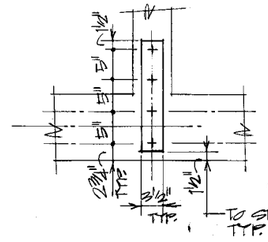
TOTAL (4) SUCH TRUSSES AT EAST-WEST CANOPIES

10 S-5 TYPICAL GLU-LAM TRUSS "T-4" ELEV'N.
SCALE: ½" = 1'-0"



PLAN VIEW OF BASE ℄ 9 S-5

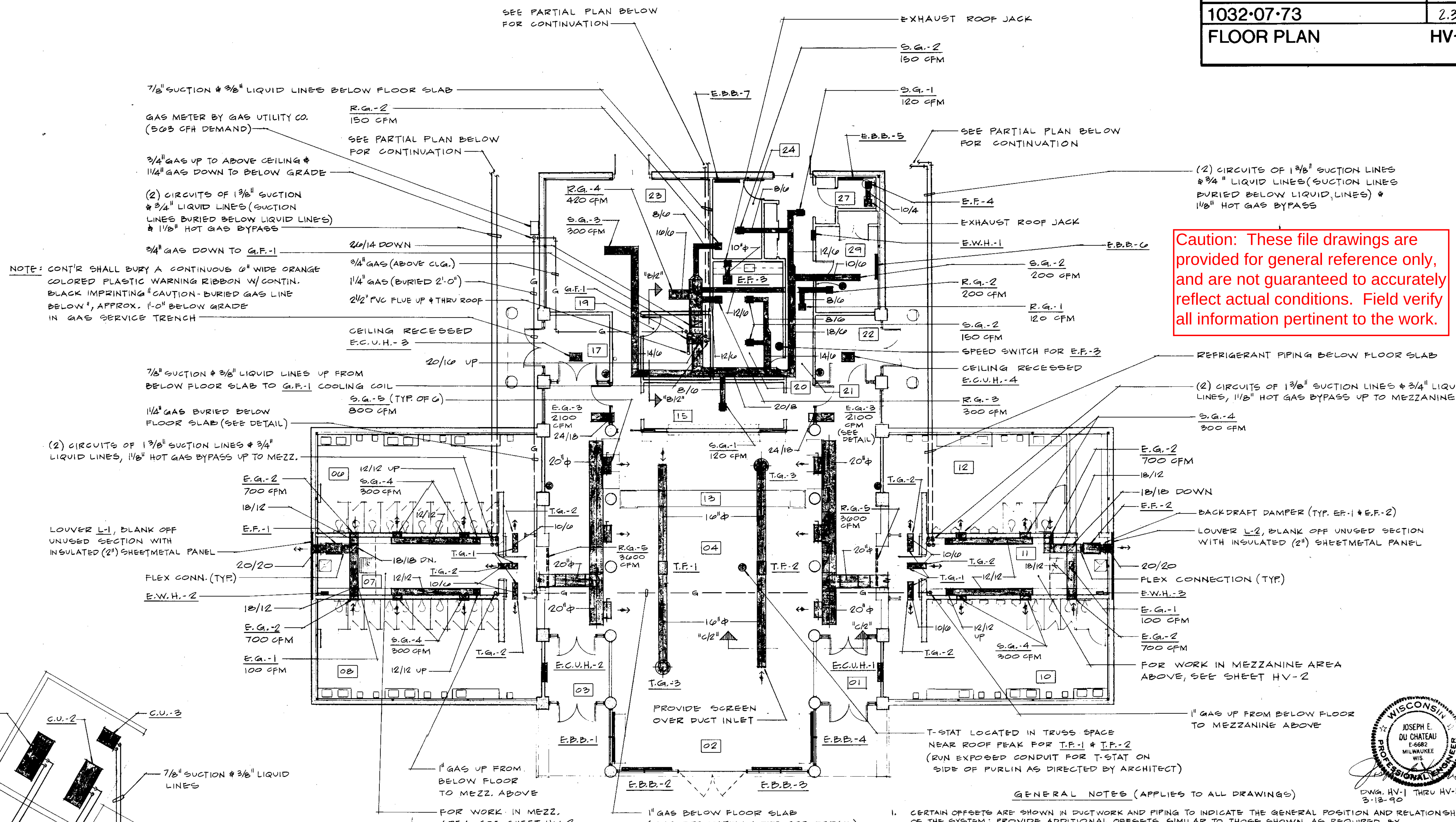
+ ½" BASE ℄. + 5/8"x5"x3" CAP ℄ + ⅜" WING ℄. ALL SHOP WELDED (100%) ASSEMBLY. FIELD WELD BASE ℄ TO ½" SET ℄
NOTE: SET ℄ IS ½" BIGGER THAN BASE ℄ AND HAS (5) ¾"ø x 1'-0" "STUDS"



7 S-5 VERT. TRUSS MEMBER

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.39
FLOOR PLAN	HV–1

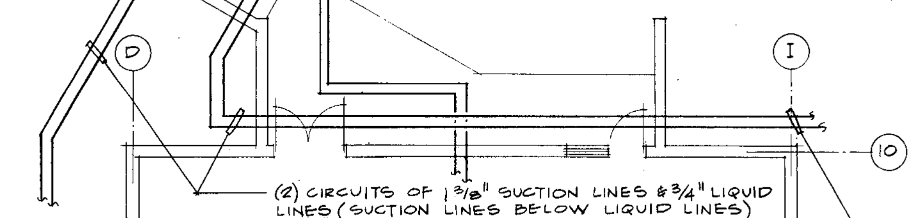
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



SEE PARTIAL PLAN BELOW FOR CONTINUATION
EXHAUST ROOF JACK
S.G.-2 150 CFM
S.G.-1 120 CFM
7/8" SUCTION & 3/8" LIQUID LINES BELOW FLOOR SLAB
E.B.B.-7
GAS METER BY GAS UTILITY CO. (563 CFH DEMAND)
R.G.-2 150 CFM
E.B.B.-5
SEE PARTIAL PLAN BELOW FOR CONTINUATION
3/4" GAS UP TO ABOVE CEILING & 1 1/4" GAS DOWN TO BELOW GRADE
(2) CIRCUITS OF 1 3/8" SUCTION LINES & 3/4" LIQUID LINES (SUCTION LINES BURIED BELOW LIQUID LINES) & 1 1/8" HOT GAS BYPASS
(2) CIRCUITS OF 1 3/8" SUCTION & 3/4" LIQUID LINES (SUCTION LINES BURIED BELOW LIQUID LINES) & 1 1/8" HOT GAS BYPASS
E.F.-4
EXHAUST ROOF JACK
3/4" GAS DOWN TO G.F.-1
24/14 DOWN
E.W.H.-1
E.B.B.-6
NOTE: CONT'R SHALL BURY A CONTINUOUS 6" WIDE ORANGE COLORED PLASTIC WARNING RIBBON W/ CONTIN. BLACK IMPRINTING "CAUTION - BURIED GAS LINE BELOW", APPROX. 1'-0" BELOW GRADE IN GAS SERVICE TRENCH
3/4" GAS (ABOVE CLG.)
1 1/4" GAS (BURIED 2'-0")
2 1/2" PVC FLUE UP & THRU ROOF
S.G.-2 200 CFM
R.G.-2 200 CFM
R.G.-1 120 CFM
CEILING RECESSED E.C.U.H.-3
S.G.-2 150 CFM
SPEED SWITCH FOR E.F.-3
CEILING RECESSED E.C.U.H.-4
REFRIGERANT PIPING BELOW FLOOR SLAB
20/16 UP
7/8" SUCTION & 3/8" LIQUID LINES UP FROM BELOW FLOOR SLAB TO G.F.-1 COOLING COIL
S.G.-5 (TYP. OF 6) 800 CFM
(2) CIRCUITS OF 1 3/8" SUCTION LINES & 3/4" LIQUID LINES, 1 1/8" HOT GAS BYPASS UP TO MEZZANINE
R.G.-3 300 CFM
S.G.-4 300 CFM
1 1/4" GAS BURIED BELOW FLOOR SLAB (SEE DETAIL)
(2) CIRCUITS OF 1 3/8" SUCTION LINES & 3/4" LIQUID LINES, 1 1/8" HOT GAS BYPASS UP TO MEZZ.
E.G.-2 700 CFM
18/12
18/18 DOWN
E.F.-2
BACKDRAFT DAMPER (TYP. EF.-1 & E.F.-2)
LOUVER L-1, BLANK OFF UNUSED SECTION WITH INSULATED (2") SHEETMETAL PANEL
LOUVER L-2, BLANK OFF UNUSED SECTION WITH INSULATED (2") SHEETMETAL PANEL
E.F.-1
20/20
FLEX CONN. (TYP.)
FLEX CONNECTION (TYP.)
E.W.H.-2
E.W.H.-3
E.G.-1 100 CFM
E.G.-2 700 CFM
S.G.-4 300 CFM
T.G.-1
T.G.-2
T.G.-3
T.F.-1
T.F.-2
R.G.-5 3600 CFM
E.G.-3 2100 CFM
E.C.U.H.-1
E.C.U.H.-2
FOR WORK IN MEZZANINE AREA ABOVE, SEE SHEET HV-2
E.B.B.-1
E.B.B.-2
E.B.B.-3
E.B.B.-4
PROVIDE SCREEN OVER DUCT INLET
1" GAS UP FROM BELOW FLOOR TO MEZZANINE ABOVE
1" GAS UP FROM BELOW FLOOR TO MEZZ. ABOVE
FOR WORK IN MEZZ. AREA, SEE SHEET HV-2
1" GAS BELOW FLOOR SLAB (GAS PIPE WITHIN A PIPE, SEE DETAIL)
T-STAT LOCATED IN TRUSS SPACE NEAR ROOF PEAK FOR T.F.-1 & T.F.-2 (RUN EXPOSED CONDUIT FOR T-STAT ON SIDE OF PURLIN AS DIRECTED BY ARCHITECT)

FLOOR PLAN

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



PARTIAL FLOOR PLAN-LOADING DOCK

1/8" = 1'-0"

WISCONSIN JOSEPH E. DU CHATEAU E-6682 MILWAUKEE WIS PROFESSIONAL ENGINEER

DWG. HV-1 THRU HV-5 3-13-90

GENERAL NOTES (APPLIES TO ALL DRAWINGS)

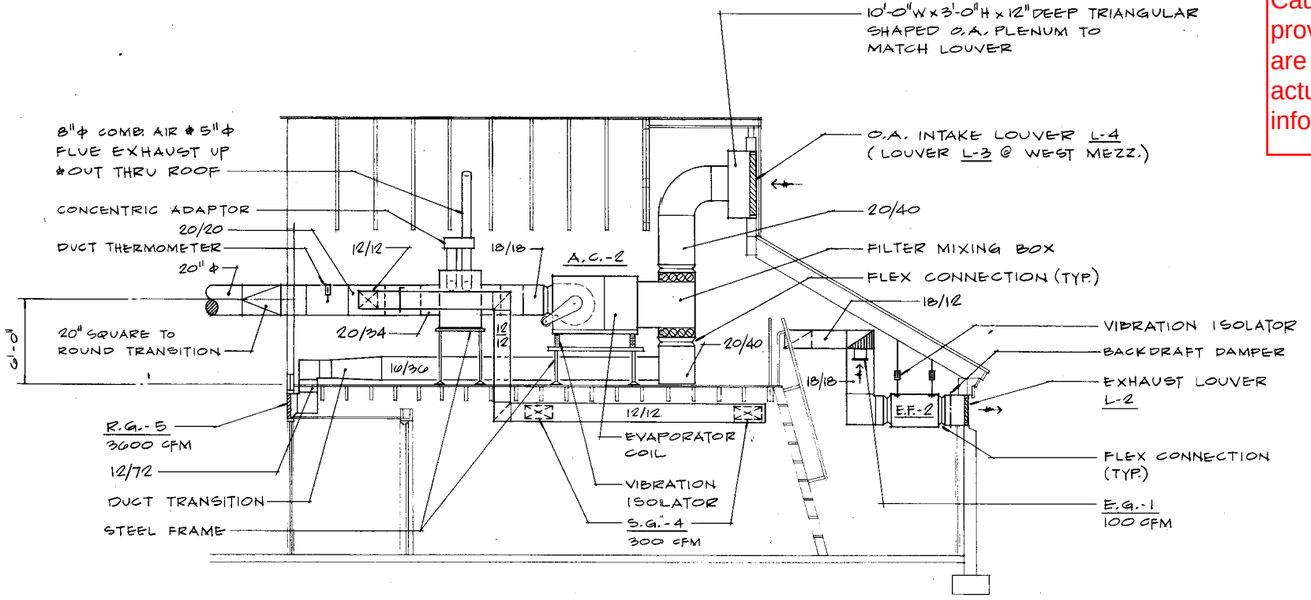
1. CERTAIN OFFSETS ARE SHOWN IN DUCTWORK AND PIPING TO INDICATE THE GENERAL POSITION AND RELATIONSHIP OF THE SYSTEM; PROVIDE ADDITIONAL OFFSETS, SIMILAR TO THOSE SHOWN, AS REQUIRED BY EXISTING FIELD CONDITIONS.
2. INSTALL ALL DUCTWORK AND PIPING TO BEST SUIT FIELD CONDITIONS; DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION.
3. ALL RECTANGULAR SUPPLY DUCTWORK SHALL BE CONSTRUCTED OF LINED SHEETMETAL TO A 2.0" W.G., DIMENSIONS SHOWN ARE INSIDE DIMENSIONS.
4. ALL RETURN AND TRANSFER DUCTWORK SHALL BE CONSTRUCTED OF LINED SHEETMETAL. DIMENSIONS SHOWN ARE INSIDE DIMENSIONS.
5. ALL RETURN AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED TO A 1.0" W.G. SMACNA PRESSURE CLASSIFICATION.

Cat. No. 2130 – 0142

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2,40

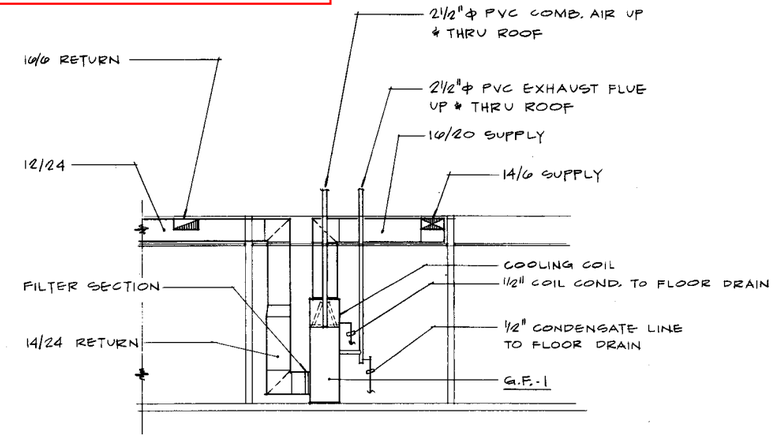
SECTIONS **HV-2**

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



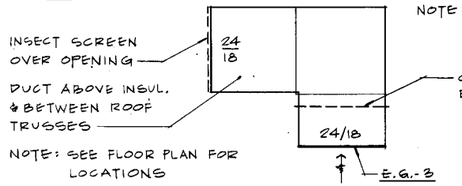
SECTION "A/2"

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



SECTION "B/2"

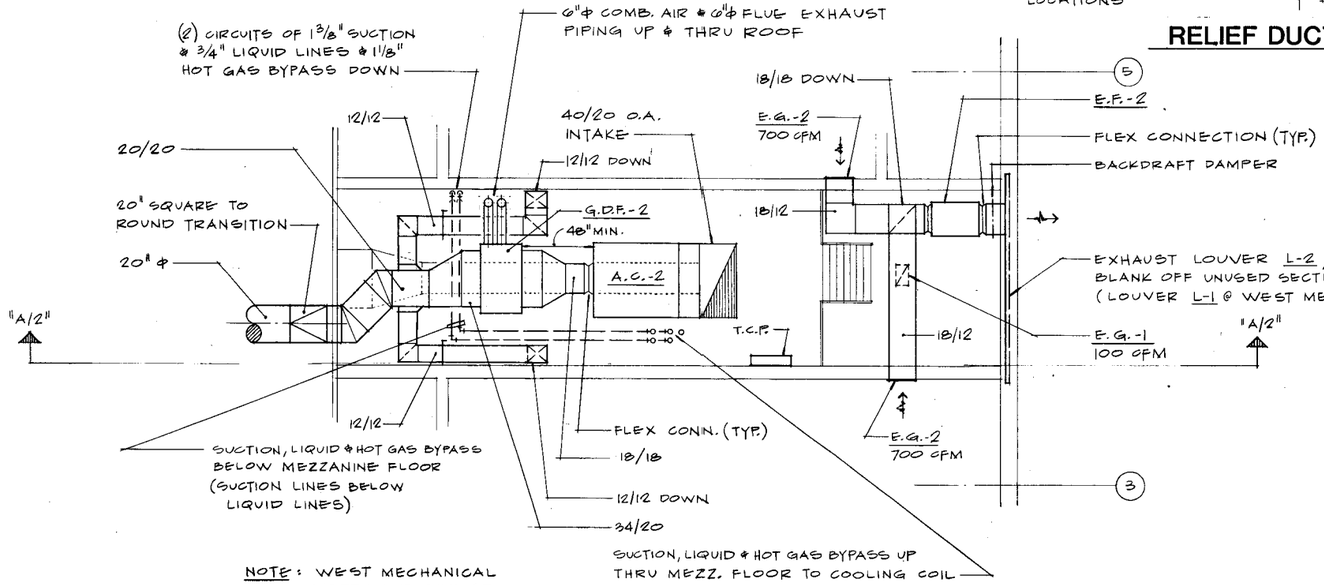
SCALE: 1/4" = 1'-0"



NOTE: TYPICAL FOR TWO DUCTS

RELIEF DUCT DETAIL

N.T.S.

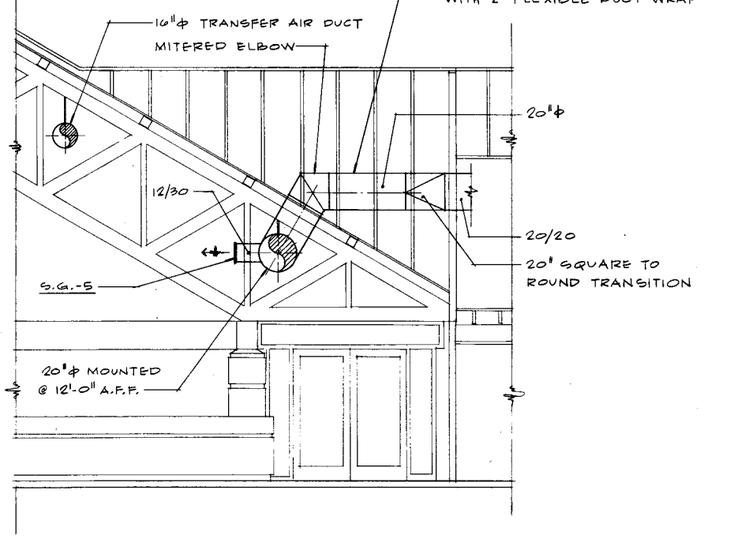


NOTE: WEST MECHANICAL MEZZANINE SIMILAR

MECHANICAL MEZZANINE PLAN

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

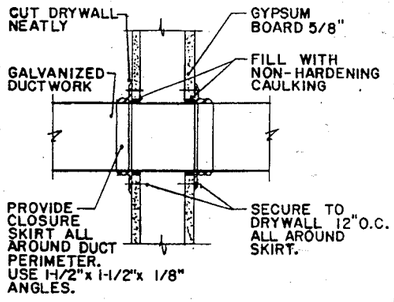
N



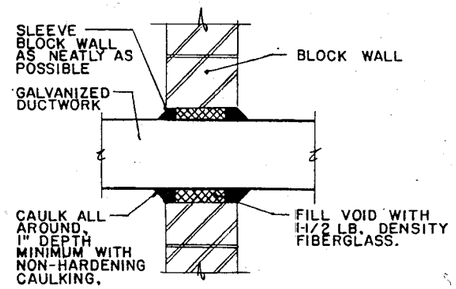
SECTION "C/2"

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

STATE PROJECT NUMBER	SHEET NO.
1032•07•73	2.41
DETAILS	HV-3



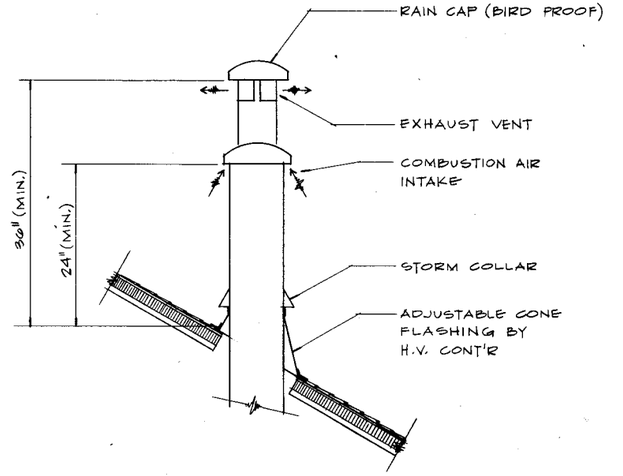
THROUGH STUD WALLS



THROUGH MASONRY WALLS

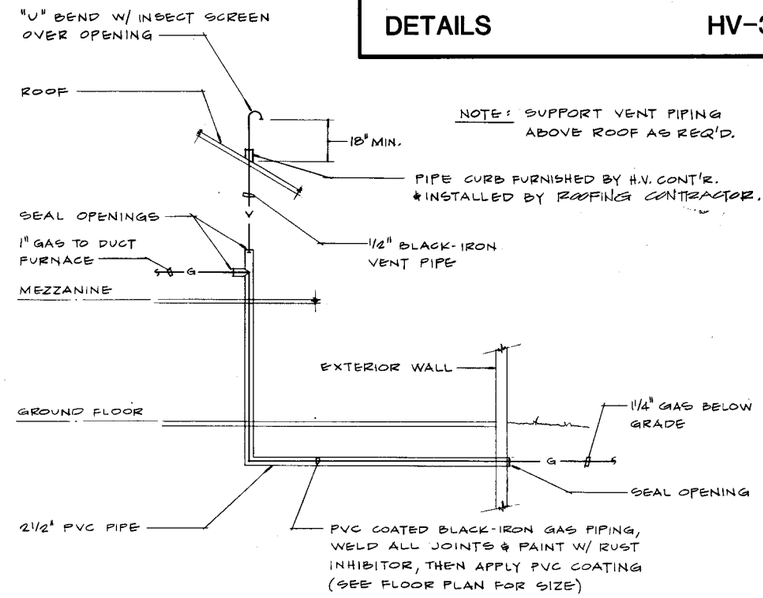
DUCTWORK THROUGH INTERIOR WALLS DETAIL

N.T.S.



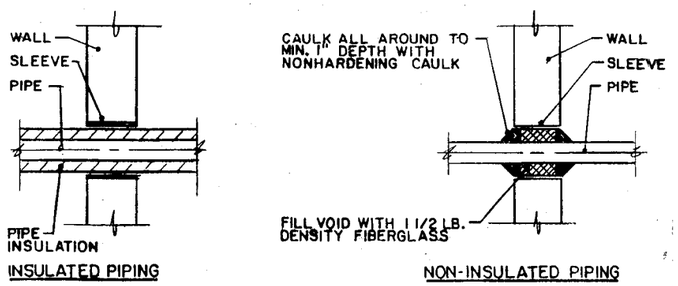
INTAKE/EXHAUST VENT DETAIL (G.D.F.-1 & 2)

N.T.S.



GAS PIPE WITHIN A PIPE DETAIL

N.T.S.

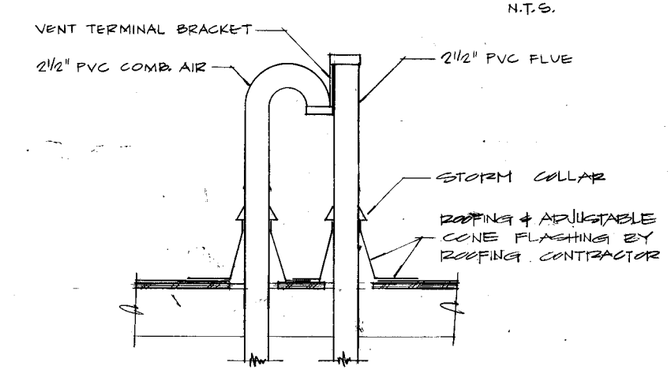


INSULATED PIPING

NON-INSULATED PIPING

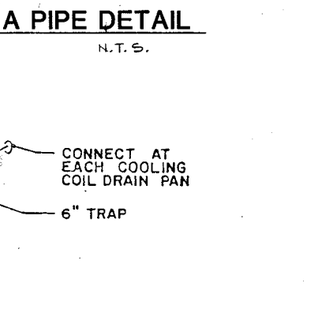
PIPING THROUGH NON-RATED WALLS & FLOORS

N.T.S.



FLUE EXHAUST DETAIL (G.F.-1)

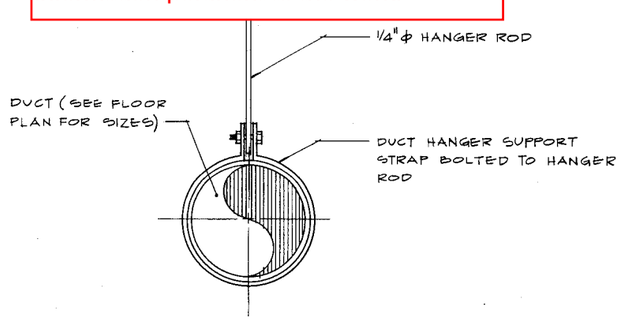
N.T.S.



CONDENSATE PIPING AT COOLING COIL DRAIN PAN DETAIL

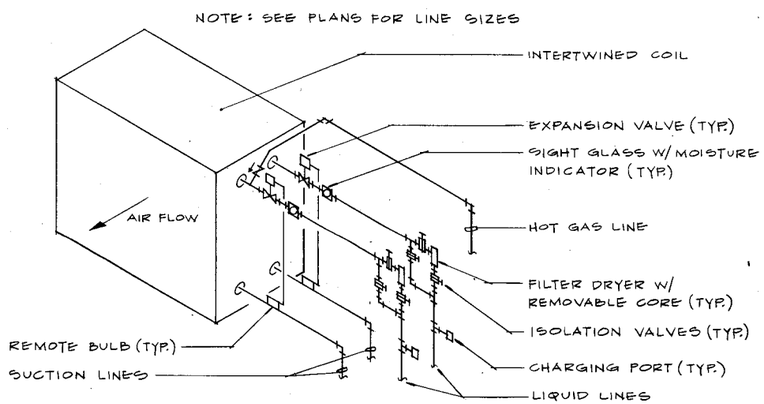
N.T.S.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



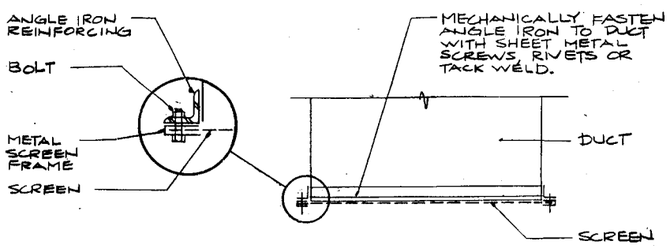
DUCT HANGER DETAIL

N.T.S.



AC-1 & AC-2 COOLING COIL DETAIL

N.T.S.

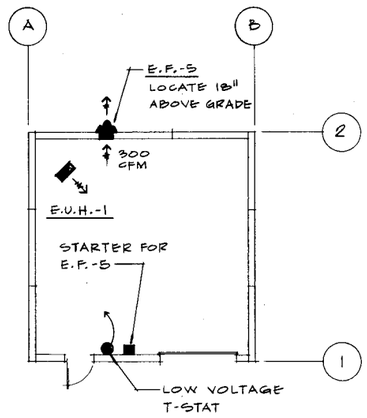


SCREEN OVER DUCT OPENING DETAIL

N.T.S.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.42
SCHEDULES	HV-4



MAINT. BLDG. FLOOR PLAN

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

GAS FURNACE SCHEDULE (G.F.)

NO.	LOC.	TOTAL CFM	O.A. CFM	EXT. S.P.	EAT °F	LAT °F	MBH INPUT	MBH OUTPUT	RPM	MOTOR H.P.	CONTROL	GAS PRESS.	MODEL	REMARKS
1	19	1200	–	0.5"	70	115	63.0	60.0	1300	1/3	T-STAT BY T.C.C.	5" W.C.	58GXB060	"CARRIER"

AIR CONDITIONING UNIT SCHEDULE (A.C.)

NO.	LOC.	TOTAL CFM	MIN OA CFM	MIN CFM	TOTAL S.P.	EXT. S.P.	FAN TYPE	MOD. TYPE	RPM	MAX. BHP	MOTOR H.P.	F. & B.P.	MIX. BOX	FILTER	REMARKS
1	MEZZ.	3600	1500	3600	2.0"	0.8"	BD-12¼"FC	–	1200	2.0	3.0	–	YES	2" T.A.	"TRANE" HDTCC-BD
2	MEZZ.	↓	↓	↓	↓	↓	↓	–	↓	↓	↓	–	↓	↓	↓

NOTE: PROVIDE 2" THROW-AWAY FILTERS

A.C. UNIT COOLING COIL SCHEDULE - REFRIGERANT

UNIT SERVED	TOTAL CFM	O.A. CFM	EDB °F	EWB °F	LDB °F	LWB °F	MBH CAP.	REFR.	SUCT. TEMP.	MAX. APD	SIZE	NO. ROWS	SPLIT	TYPE	REMARKS
A.C.-1	3000	1500	81	67.4	56.1	55.5	134.3	R 22	44.5	0.40	31¼"x36"	4	INTER-TWINED	FD	"TRANE" DF-148
A.C.-2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	"TRANE" ↓
G.F.-1	1200	–	75	62.5	58.5	55.5	32.8	↓	47.0	0.30	17½"x17"	–	–	2BRC	"CARRIER" 030

CONDENSING UNIT SCHEDULE (C.U.)

NO.	MBH CAP.	AMBIENT TEMP. °F	SUCT. TEMP.	NO. COMP.	COMP. KW (EA)	NO. FANS	FAN HP (EA)	MIN. CIRC. AMPACITY	HOT GAS BYPASS	HEAD PR. CONTROL	MODEL	REMARKS
1	134.0	95.0	42.5	2	6.25 H.P.	2	1/2	50.0 A	YES	–	TTA150B	"TRANE"
2	↓	↓	↓	↓	↓	↓	↓	↓	YES	–	↓	↓
3	36	↓	45	1	6.3 RLA	1	0.6 FLA	17.0 A	–	–	38TH036DL	"CARRIER"

GAS DUCT FURNACE SCHEDULE (G.D.F.)

NO.	SERVES	TOTAL CFM	EAT °F	LAT °F	MBH INPUT	MBH OUTPUT	CONTROL	GAS PRESS.	MODEL	REMARKS
1	A.C.-1	3600	38	89	250	197.5	2-STAGE	5" W.C.	HSC-250	"REZNOR"
2	A.C.-2	3600	38	89	250	197.5	2-STAGE	5" W.C.	HSC-250	"REZNOR"

STARTER SCHEDULE

EQUIPMENT DESCRIPTION	EQUIP. LOC.	HP (kW)	VOLT.	STARTER TYPE	STARTER LOC.	ELECT. INTERLOCK	TEMP. CONT. INTERLOCK	REMARKS
A.C.-1	NORTH MEZZ.	3.0	208-3	A.B. 513 W/P.L., H.O.A.	MEZZ.			
A.C.-2	SOUTH MEZZ.	3.0	208-3	↓	↓			
G.D.F.-1 & 2	SEE DWG.	1.9 A	120-1	A.B. 600 TAX 109	NEAR UNIT		A.C.-1 & A.C.-2	
G.F.-1	19	1/3	115-1	A.B. TAX 109	19			
C.U.-1	SEE DWG.	50.0 MCA	208-3	MAGNETIC	INTEGRAL		A.C.-1	WEATHERPROOF DISCONNECT BY E.C.
C.U.-2	↓	50.0 MCA	↓	↓	↓		A.C.-2	↓
C.U.-3	↓	17.0 MCA	↓	↓	↓		G.F.-1	↓
E.U.H.-1	MAINT. BLDG.	(15.0)	↓	OVERLOAD PROTECTION	↓		LOW VOLTAGE T-STAT	
E.F.-1	07	1/2	↓	A.B. 513 W/P.L., H.O.A.	07			
E.F.-2	11	1/2	↓	↓	11			
E.F.-3	20	3.3 A	115-1	OVERLOAD PROTECTION	INTEGRAL	SPEED SWITCH		
E.F.-4	27	1.2 A	115-1	↓	↓	LIGHT SWITCH		
E.F.-5	MAINT. BLDG.	1/28	115-1	A.B. TAX 109	SEE DWG.			
E.W.H.-1	21	19.5 A	208-1	OVERLOAD PROTECTION	INTEGRAL			
E.W.H.-2	07	6.3 A	208-1					
E.W.H.-3	11	6.3 A	208-1					
E.C.U.H.-1	01	17.0 A	208-3					
E.C.U.H.-2	03	17.0 A	↓					
E.C.U.H.-3	17	24.0 A				T-STAT		
E.C.U.H.-4	22	24.0 A	↓			T-STAT		
E.B.B. 1-4	02	(1.5)	208-1					
E.B.B.-5	27	(1.0)	↓					
E.B.B.-6	29	(1.0)	↓					
E.B.B.-7	24	(1.0)	↓	↓	↓			
T.F.-1 & 2	04	1/11	115-1	A.B. TAX 109	07		T-STAT	
T.C.P.	SEE DWG.	–	120-1	–	–	–	–	PROVIDE 120-1Φ CIRCUIT TO EACH T.C.P.

NOTES: 1. ALL STARTERS, EXCEPT INTEGRAL STARTERS, SHALL BE FURNISHED BY HVAC CONT'R. & INSTALLED BY ELECTRICAL CONTRACTOR.

2. STARTERS ARE BASED ON ALLEN-BRADLEY MODELS.

ABBREVIATIONS:

H.O.A. - "HAND-OFF-AUTO"
P.L. - PILOT LIGHT
MCA - MINIMUM CIRCUIT AMPACITY
E.C. - ELECTRICAL CONTRACTOR
T.C.P. - TEMPERATURE CONTROL PANEL

LOUVER SCHEDULE (L.)

NO.	SERVICE	CFM	WIDTH	HEIGHT	DEPTH	FREE AREA	MAX. APD	MAT'L	SCREEN	MODEL	REMARKS
1,2	E.F.-1 & E.F.-2 EXH.	1500	62"	14"	1"	60%	.15"	ALUM.	BIRD	0292	"C/S GROUP" (1)
3,4	A.C.-1 & A.C.-2 O.A.	3600	66"	38"	1"	60%	.10"	ALUM.	BIRD	0292	"C/S GROUP" (1)(2)

(1) LOUVERS FURNISHED BY HVAC CONT'R, INSTALLED BY OTHERS INTO ALUMINUM FRAMES. VERIFY EXACT LOUVER SIZE W/ INSTALLER.
(2) TRIANGULAR SHAPED LOUVERS, SEE BUILDING ELEVATIONS.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER	SHEET NO.
1032•07•73	2.43
SCHEDULES	HV-5

LEGEND

SYM.	ABBR.	IDENTIFICATION	SYM.	ABBR.	IDENTIFICATION
	S.A.	SUPPLY AIR DUCT UP		V.D.	VOLUME DAMPER
	O.A.	OUTSIDE AIR DUCT UP	(F)	F.D.	FIRE DAMPER
	R.A.	RETURN AIR DUCT UP	(S)	S.D.	SMOKE DAMPER
	E.A.	EXHAUST AIR DUCT UP		S.G.	SUPPLY GRILLE
	-	DUCT DOWN OR AWAY		R.G.	RETURN GRILLE
	S.A.	SUPPLY AIR DUCT		E.G.	EXHAUST GRILLE
	R.A.	RETURN AIR DUCT		T.G.	TRANSFER GRILLE
	E.A.	EXHAUST AIR DUCT		B.C.	BOOSTER COIL
	A.L.D.	ACOUSTIC. LINED DUCT	T	-	THERMOSTAT
	F.C.	FLEXIBLE CONNECTION	T_C	-	CUMULATED THERMOSTAT
	T.V.	TURNING VANES	T_{D-N}	-	DAY-NIGHT THERMOSTAT
	M.O.D.	MOTOR OPERATED DAMPER	H	-	HUMIDISTAT
—G—	G	GAS PIPING			
	T.C.P.	TEMP. CONTROL PANEL			
	A.P.	ACCESS PANEL			
	A.D.	ACCESS DOOR			
	H.& V.	HEATING & VENTILATING			
	G.C.	GENERAL CONTRACTOR			
	N.I.C.	NOT IN CONTRACT			
	U.C.D.	UNDERCUT DOOR (BY GC)			
	A.F.F.	ABOVE FINISHED FLOOR			

TRANSFER FAN SCHEDULE (T.F.)

NO.	AREA SERVED	CFM	S.P.	DISCH. ARR.	CLASS	FAN TYPE	RPM	MAX. BHP	MOTOR H.P.	DRIVE	DISCH. DAMPERS	SCROLL DRAIN	MAX. SONES	REMARKS
1	04	800	1/4"	—	—	PX110-2	1595	0.106	1/11	DIRECT	-	-	7.0	"ACME"
2	04	800	1/4"	—	—	PX110-2	1595	0.106	1/11	DIRECT	-	-	7.0	"ACME"

SUPPLY GRILLE SCHEDULE (S.G.)

SYMBOL	CFM RANGE	NECK SIZE	DIFFUSION	DAMPER	MAT'L	FINISH	FRAME	MOUNTING HEIGHT	MODEL	REMARKS
1	0-125	6x6	4-WAY	O.B.D.	ALUM.	WHITE	YES	CEILING	SAFA	"CARNES"
2	126-250	9x9	↓	↓	↓	↓	↓	↓	↓	↓
3	251-500	12x12	↓	↓	↓	↓	↓	↓	↓	↓
4	300	18x8	—	↓	↓	↓	↓	7'-4"	RNDAH	↓
5	800	30x12	—	↓	STEEL	↓	↓	DUCT	DPL 12/30	"KRUEGER"

RETURN GRILLE SCHEDULE (R.G.)

SYMBOL	CFM RANGE	NECK SIZE	DAMPER	MAT'L	FINISH	FRAME	MOUNTING HEIGHT	MODEL	REMARKS
1	0-125	6x6	O.B.D.	ALUM.	WHITE	YES	CEILING	RNPAF	"CARNES"
2	126-250	8x8	↓	↓	↓	↓	↓	↓	↓
3	251-350	10x10	↓	↓	↓	↓	↓	↓	↓
4	350-500	12x12	↓	↓	↓	↓	↓	↓	↓
5	3600	72x12	—	STEEL	(1)	↓	B.O. SOFFIT	RTLA	↓

(1) SELECTED BY ARCHITECT

TRANSFER GRILLE SCHEDULE (T.G.)

SYMBOL	CFM RANGE	SIZE	MATERIAL	FINISH	FRAME	MOUNTING HEIGHT	MODEL	REMARKS
1	100	6x6	ALUM.	WHITE	YES	CEILING	RAPAF	"CARNES"
2	100	10x6	ALUM.	↓	↓	7'-8"	RALAF	↓
3	800	10" ø NECK	STEEL	↓	↓	DUCT	SSAA	↓

ELECTRIC UNIT HEATER SCHEDULE (E.U.H.)

NO.	LOC.	CFM	EAT °F	LAT °F	MBH CAP.	HT'G KW	FAN RPM	FAN H.P.	MOUNTING HGT. ABV. FLOOR	INTEGRAL T'STAT	DIFFUSER	MODEL	REMARKS
1	MAINT. BLDG.	910	60	112	51.2	15.0	1530	1/20	8'-0"	—	—	MUH-15-2	"Q-MARK"

NOTE: PROVIDE WITH REMOTE MOUNTED LOW VOLTAGE THERMOSTAT.

ELECTRIC CABINET UNIT HEATER (E.C.U.H.)

NO.	LOC.	CFM	EAT °F	LAT °F	MBH CAP.	HT'G KW	RECESS	FAN RPM	FAN H.P.	INTEGRAL T'STAT	MODEL	REMARKS
1	01	250	60	132	20.5	6.0	4"	—	1/40	YES	CUI-RFF	"Q-MARK"
2	03	250	↓	132	20.5	6.0	4"	—	1/40	YES	CUI-RFF	↓
3	17	285	↓	115	17.1	5.0	CEILING	—	—	(1)	CDF	↓
4	22	285	↓	115	17.1	5.0	CEILING	—	—	(1)	CDF	↓

(1) PROVIDE LINE VOLTAGE T-STAT MODEL MHT-4051E-1008.

ELECTRIC WALL HEATER SCHEDULE (E.W.H.)

NO.	LOC.	CFM	EAT °F	LAT °F	MBH CAP.	HT'G KW	RECESS	FAN RPM	FAN H.P.	INTEGRAL T'STAT	MODEL	REMARKS
1	21	170	60	132	13.6	4.0	FULLY	—	—	YES	AWH-4000	"Q-MARK"
2	7	65	↓	↓	5.1	1.5	—	—	—		CWH-152-1	↓
3	11	65	↓	↓	5.1	1.5	—	—	—	↓	CWH-152-1	↓

ELECTRIC BASEBOARD SCHEDULE (E.B.B.)

NO.	LOC.	MBH CAP.	KW	NO. OF ELEMENTS	ELEMENT LENGTH	CABINET LENGTH	CABINET HEIGHT	CABINET DEPTH	HGT. ABV. FLOOR	INTEGRAL T'STAT	MODEL	REMARKS
1	08	5.1	1.5	1	8'-0"	8'-0"	5 1/2"	3"	6"	YES	CPH	"Q-MARK"
2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
3												
4	↓	↓	↓		↓	↓	↓	↓	↓		↓	
5	27	3.4	1.0		4'-0"	4'-0"	6 3/4"	2 1/2"	—		QMK-2500	
6	29	↓	↓		↓	↓	↓	↓	—		↓	
7	24	↓	↓	↓	↓	↓	↓	↓	—	↓	↓	↓

EXHAUST FAN SCHEDULE (E.F.)

NO.	AREA SERVED	CFM	S.P.	DISCH. ARR.	CLASS	FAN TYPE	RPM	MAX. BHP	MOTOR H.P.	DRIVE	DISCH. DAMPERS	SCROLL DRAIN	MAX. SONES	REMARKS
1	06&08	1500	3/4"	—	—	VIBA 15	1000	0.32	1/2	BELT	—	—	12.8	"CARNES"
2	10&12	1500	3/4"	—	—	VIBA 15	1000	0.32	1/2	BELT	—	—	12.8	↓
3	20	400	1/4"	—	—	VCDB045	1050	—	3.3 A	DIRECT	—	—	4.3	(1)(2)
4	27	100	1/4"	—	—	VCDB015	1550	—	1.2 A	DIRECT	—	—	5.2	(1)
5	MAINT. BLDG.	300	1/4"	—	—	VWDB08	1400	—	1/22	DIRECT	—	—	-	(3)

(1) PROVIDE W/INTEGRAL EXHAUST GRILLE & ROOF JACK W/ BACKDRAFT DAMPER & BIRDSCREEN, PROVIDE FLEX CONNECTION AT FAN.
(2) PROVIDE UNIT WITH REMOTE MOUNTED SPEED SWITCH.
(3) PROVIDE WITH UNIT MOUNTED SPEED SWITCH, WALL GRILLE & BACKDRAFT DAMPER.

EXHAUST GRILLE SCHEDULE (E.G.)

SYMBOL	CFM RANGE	SIZE	DAMPER	MAT'L	FINISH	FRAME	MOUNTING HEIGHT	MODEL	REMARKS
1	100	10x6	YES	ALUM.	WHITE	YES	DUCT	RALAF	"CARNES"
2	700	18x12	YES	↓	↓	↓	9'-4"	RALAF	↓
3	2100	24x18	—	↓	↓	↓	CEILING	RAPAF	↓

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	244
FOUNDATION PLAN	P-1

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

LEGEND

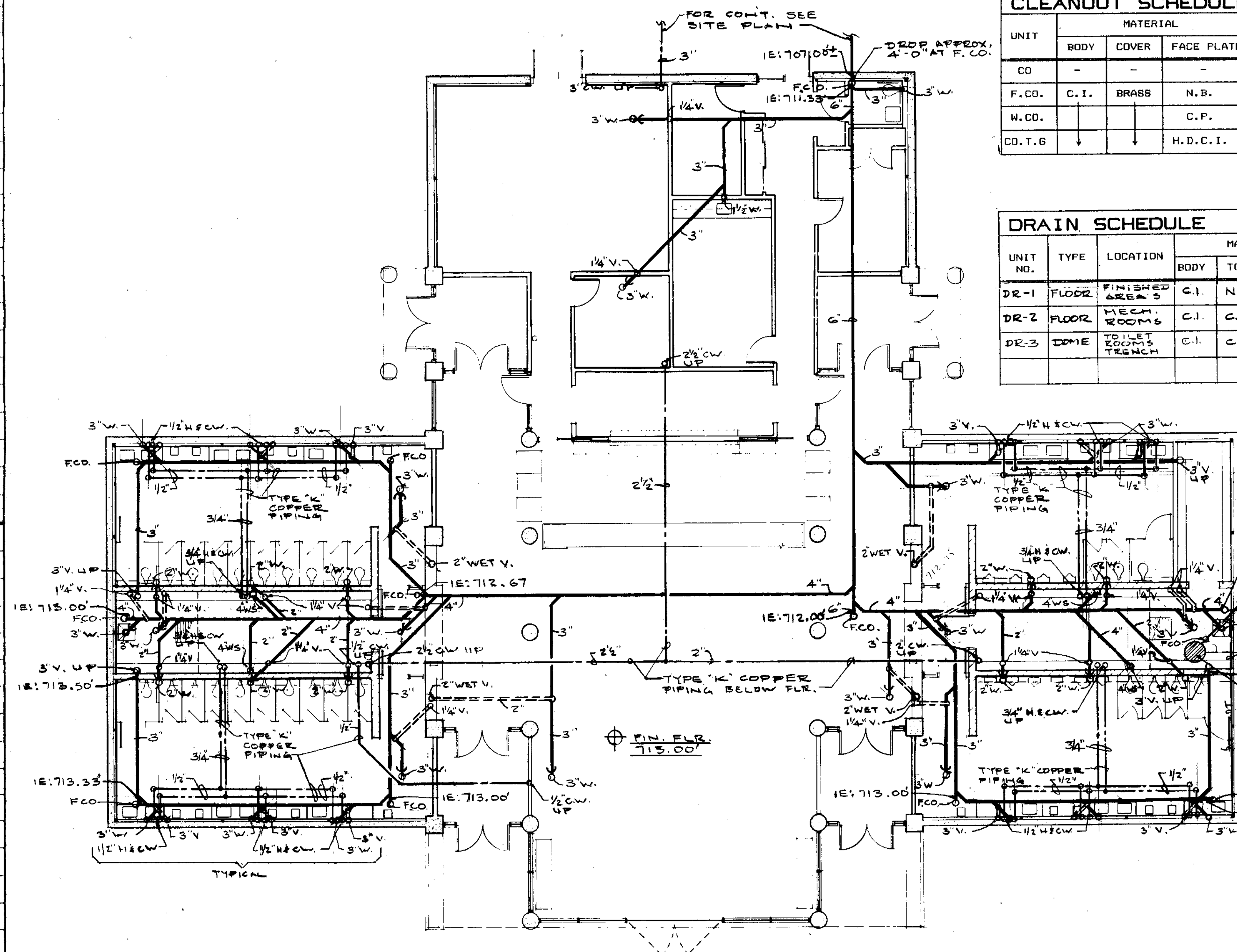
SYM.	ABBR.	IDENTIFICATION
		WATER HAMMER ARRESTER
	P.C.	PLUGGED CONNECTION
	C.C.	CAPPED CONNECTION
		EQUIPMENT/FIXTURE BY OWNER
	R.I.O.	ROUGH IN ONLY
(37)	F.U.	FIXTURE UNITS
	R.D.	ROOF DRAIN
	F.D.	FLOOR DRAIN
	S.D.	SIGHT DRAIN
—DT—	D.T.	DRAIN TILE
	D.T.CO	DRAIN TILE CLEANOUT
	D.T.R.	DRAIN TILE RECEIVER
	B.W.V.	BACK WATER VALVE
	P.R.V.	PRESSURE REDUCING VALVE
	R.V.	RELIEF VALVE
	B.F.P.	BACK FLOW PREVENTER
	RPBFP	REDUCE PRESS. BACKFLOW PREVENTER
"B"	B.	BUTTRESS
—AV—	A.V.	ACID VENT
—AW—	A.W.	ACID WASTE
—G—	G.	GAS PIPING
—A—	A.	AIR PIPING
—ST—	ST.	STORM SEWER/DRAIN IN GROUND
—SS—	S.S.	SANITARY SEWER/DRAIN IN GROUND
	R.C.	ROOF CONDUCTOR
	V.	VENT
	V.	VENT IN GROUND
	W.	WASTE PIPE
—CL—	CLV	CLEAR VENT PIPING
—CL—	CLW	CLEAR WASTE PIPING
	C.	COLD WATER
	H.	HOT WATER
		HOT WATER/HEAT TRACED
	H.W.R.	HOT WATER RETURN
	CO.	CLEANOUT
	W.CO.	WALL CLEANOUT
	F.CO.	FLUSH CLEANOUT
	CO.T.G	CLEANOUT TO GRADE
	EL.	ELEVATION
	I.E.	INVERT ELEVATION
		SHUT-OFF VALVE
	B.V.	BALANCING VALVE
	CK.V.	CHECK VALVE
		PIPE CHAMBER

CLEANOUT SCHEDULE

UNIT	MATERIAL			ANCHOR FLANGE	CONCRETE PAD	MISC.	TYPICAL MODEL NO.
	BODY	COVER	FACE PLATE				
CO	–	–	–	–	–	–	BRASS RECESSED PLUG W/SLOTTED RECESS
F.CO.	C.I.	BRASS	N.B.	–	–	–	J.R. SMITH FIG. NO. 4108
W.CO.	↓	↓	C.P.	–	–	–	J.R. SMITH FIG. NO. 4710 W/BWB9
CO.T.G	↓	↓	H.D.C.I.	YES	2'x2'x6"	–	SCHIER FIG. NO. SDR-101 W/FROST SLEEVE

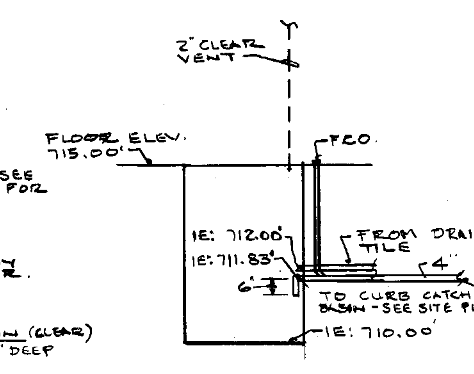
DRAIN SCHEDULE

UNIT NO.	TYPE	LOCATION	MATERIAL			FLASHING CLAMP	MISC.	MODEL NO.
			BODY	TOP	STRAINER			
DR-1	FLOOR	FINISHED AREAS	C.I.	N.B.	N.B.	YES	—	J.R. SMITH FIG. NO. 2005-A
DR-2	FLOOR	MECH. ROOMS	C.I.	C.I.	C.I.	YES	—	J.R. SMITH FIG. NO. 2110-Y
DR-3	DOME	TOILET ROOMS TRENCH	C.I.	CP	C.P.	YES	VANDAL PROOF, SCREWS	J.R. SMITH FIG. NO 2005-GU



FOUNDATION PLAN

SCALE 1/8" = 1'-0"



CATCH BASIN (CLEAR WATER)

NO SCALE

JOSEPH F. DU CHATEAU E 6682 MILWAUKEE W.S. WISCONSIN PROFESSIONAL ENGINEER

DWGS. P-1 THRU P-4 3-13-90

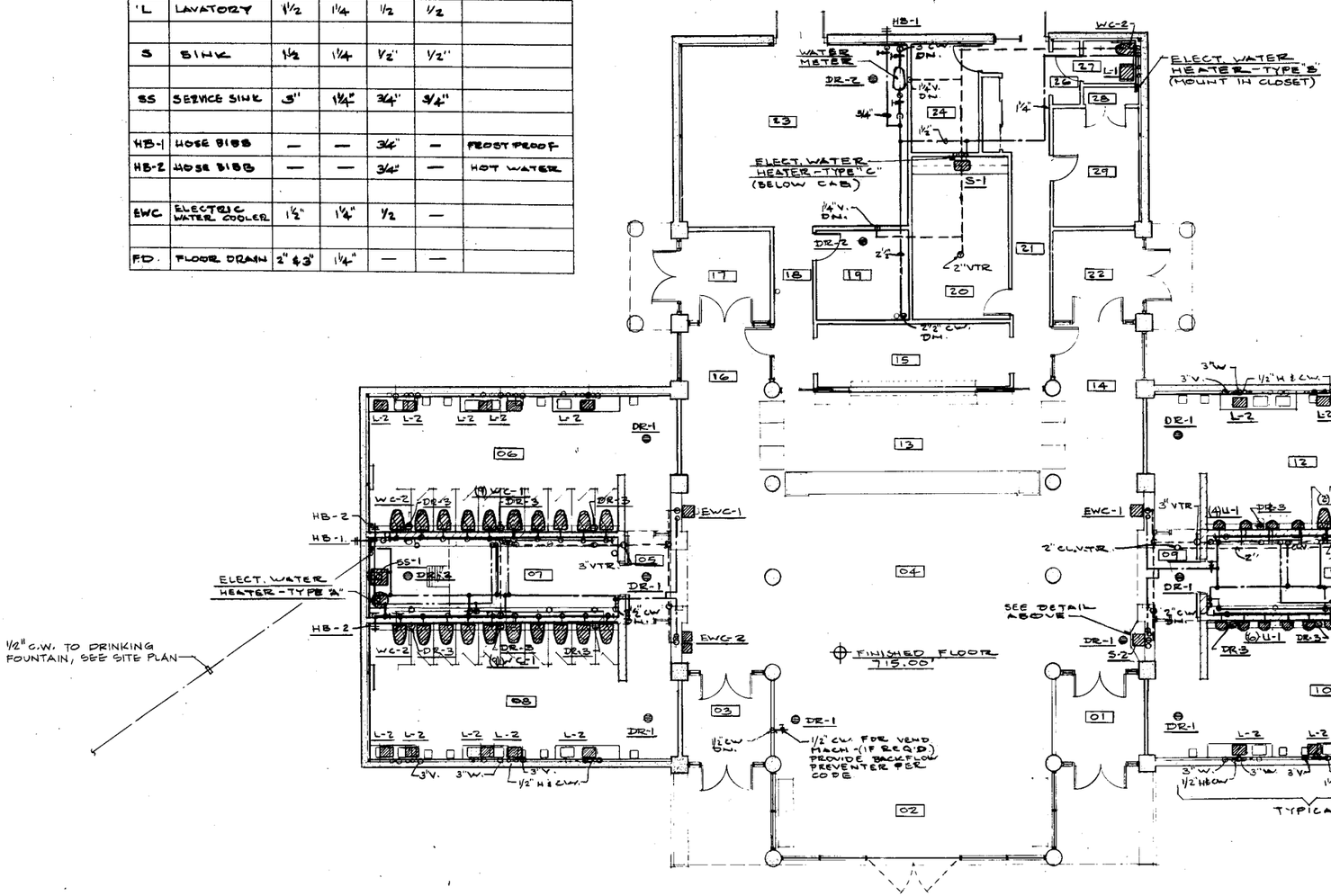
Cat. No. 2130 – D142

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.45
FLOOR PLAN	P-2

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

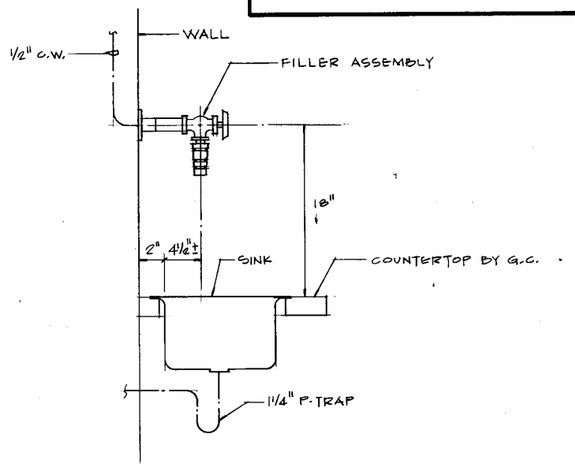
MINIMUM FIXTURE CONNECTION

KEY	DESCRIPTION	PIPE SIZE WASTE	VENT	C.W.	H.W.	REMARKS
WC-1	WATER CLOSET	3	1½	1¼	—	
WC-2	WATER CLOSET	3	1½	1¼	—	HANDICAPPED
U	URINAL	2"	1¼	¾"	—	WALL MTD.
L	LAVATORY	1½	1¼	½	½	
S	SINK	1½	1¼	½"	½"	
SS	SERVICE SINK	3"	1½"	¾"	¾"	
HB-1	HOSE BIBB	—	—	¾"	—	FROST PROOF
HB-2	HOSE BIBB	—	—	¾"	—	HOT WATER
EWC	ELECTRIC WATER COOLER	1½"	1¼"	½	—	
FD	FLOOR DRAIN	2" & 3"	1¼"	—	—	



FLOOR PLAN

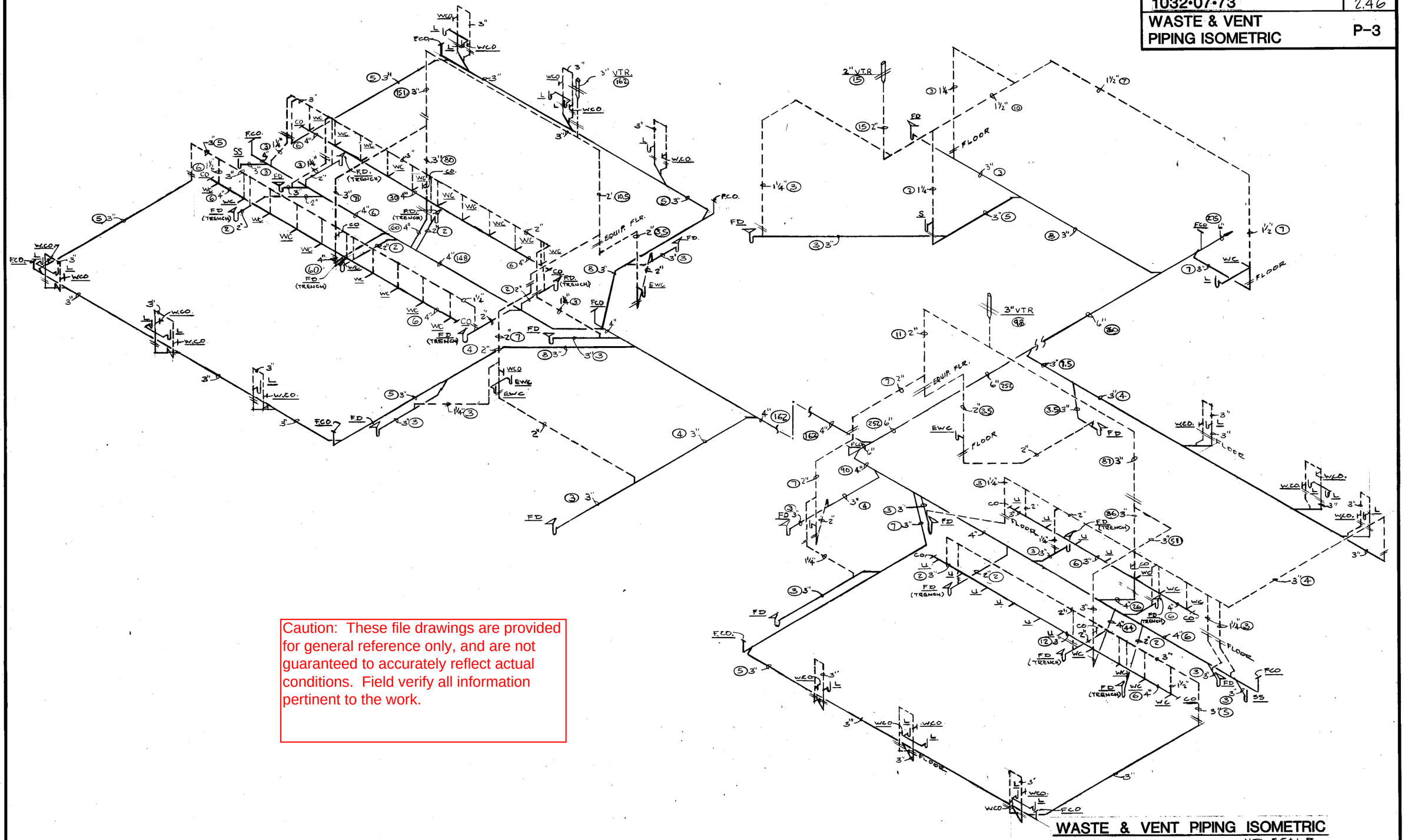
SCALE: 1/8" = 1'-0"



DETAIL OF S-2 (JUG FILLER)

NO SCALE

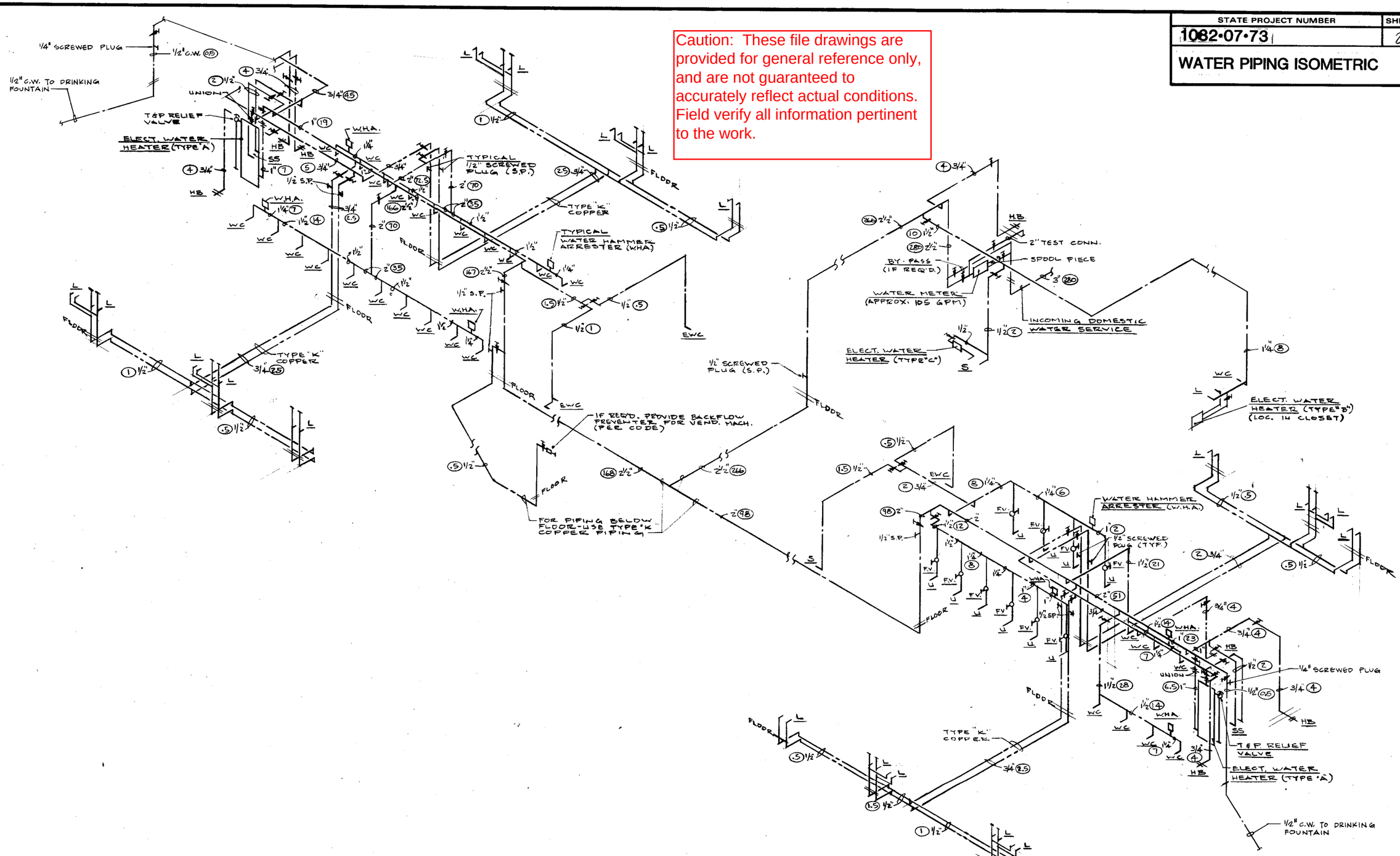
STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.46
WASTE & VENT PIPING ISOMETRIC	P-3



Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

STATE PROJECT NUMBER	SHEET NO.
1082-07-73	2.41
WATER PIPING ISOMETRIC	P-4

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



WATER PIPING ISOMETRIC

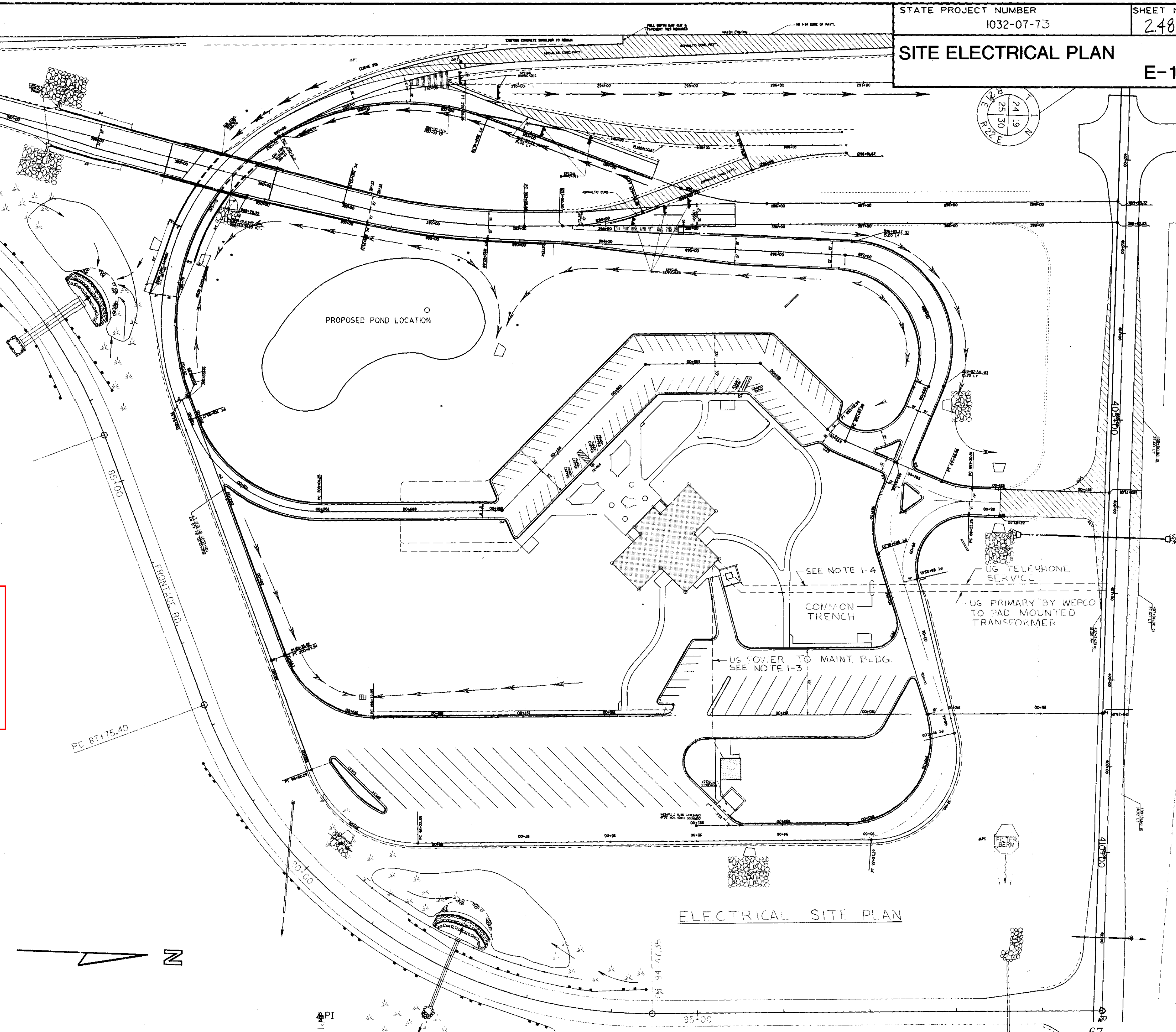
NO SCALE

Cat. No. 2130 – D142

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	248

SITE ELECTRICAL PLAN

E-1



NOTES

1-1. POWER AND TELEPHONE SERVICES TO INFORMATION CENTER NOT IN THIS CONTRACT. POWER TO MAINT BLDG, ALL INTERIOR WIRING, LIGHTING AND POWER DISTRIBUTION IN THIS CONTRACT.

1-2. EXTERIOR SITE LIGHTING UNDER A FUTURE/CONCURRENT CONTRACT AND IS NOT IN THIS CONTRACT.

1-3. SEE SERVICE RISER FOR CONDUIT TO MAINT. BLDG.

1-4. PROVIDE 1-4" SCHEDULE 80 PVC CONDUIT STUB OUT TO TELEPHONE SERVICE, 10 FOOT MINIMUM.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

SHEETS E-1 THROUGH E-6

3/13/90 JOB NO. 89605

HARWOOD ENGINEERING CONSULTANTS
7601 HARWOOD AVENUE
MILWAUKEE, WI 53213
414-475-5554

SCALE: 1" = 60'

PLOT SCALE: 60
PLOT NAME:
REV. DATE: 2-6-90

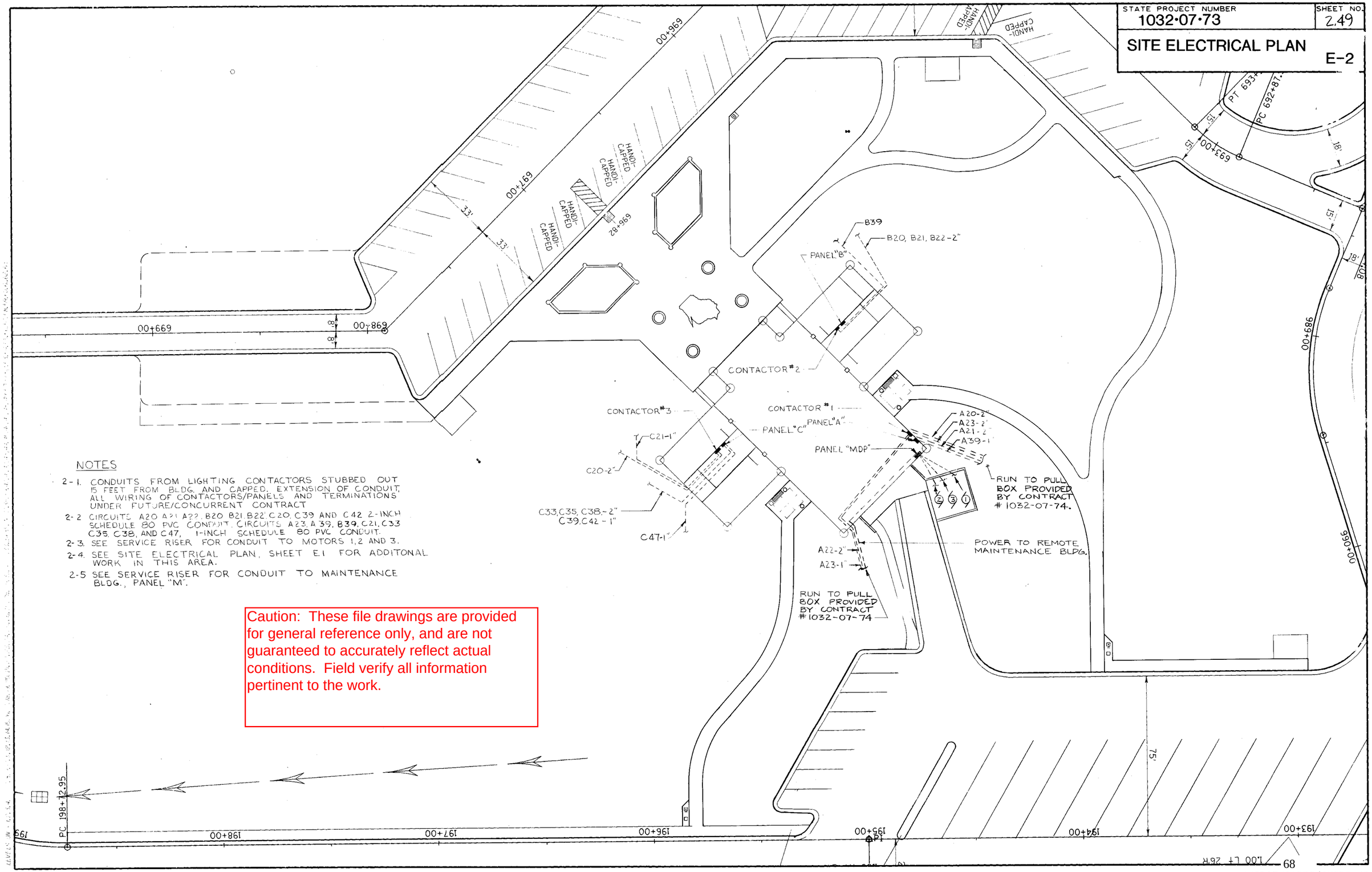
FILE NAME: HDGN:DE KENOSHA:WICEC1.DGN

WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.49

SITE ELECTRICAL PLAN

E-2



NOTES

2-1. CONDUITS FROM LIGHTING CONTACTORS STUBBED OUT 15 FEET FROM BLDG. AND CAPPED. EXTENSION OF CONDUIT, ALL WIRING OF CONTACTORS/PANELS AND TERMINATIONS UNDER FUTURE/CONCURRENT CONTRACT

2-2 CIRCUITS A20 A21 A22, B20 B21 B22 C20, C39 AND C42 2-INCH SCHEDULE 80 PVC CONDUIT. CIRCUITS A23, A39, B39, C21, C33 C35, C38, AND C47, 1-INCH SCHEDULE 80 PVC CONDUIT.

2-3. SEE SERVICE RISER FOR CONDUIT TO MOTORS 1, 2 AND 3.

2-4. SEE SITE ELECTRICAL PLAN, SHEET E1 FOR ADDITONAL WORK IN THIS AREA.

2-5 SEE SERVICE RISER FOR CONDUIT TO MAINTENANCE BLDG., PANEL "M".

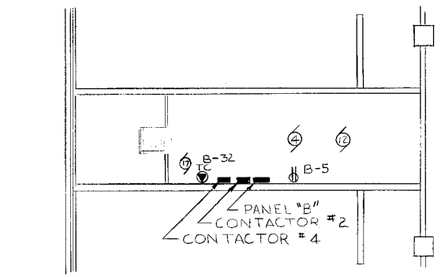
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR:
FILE NAME: HDGN:

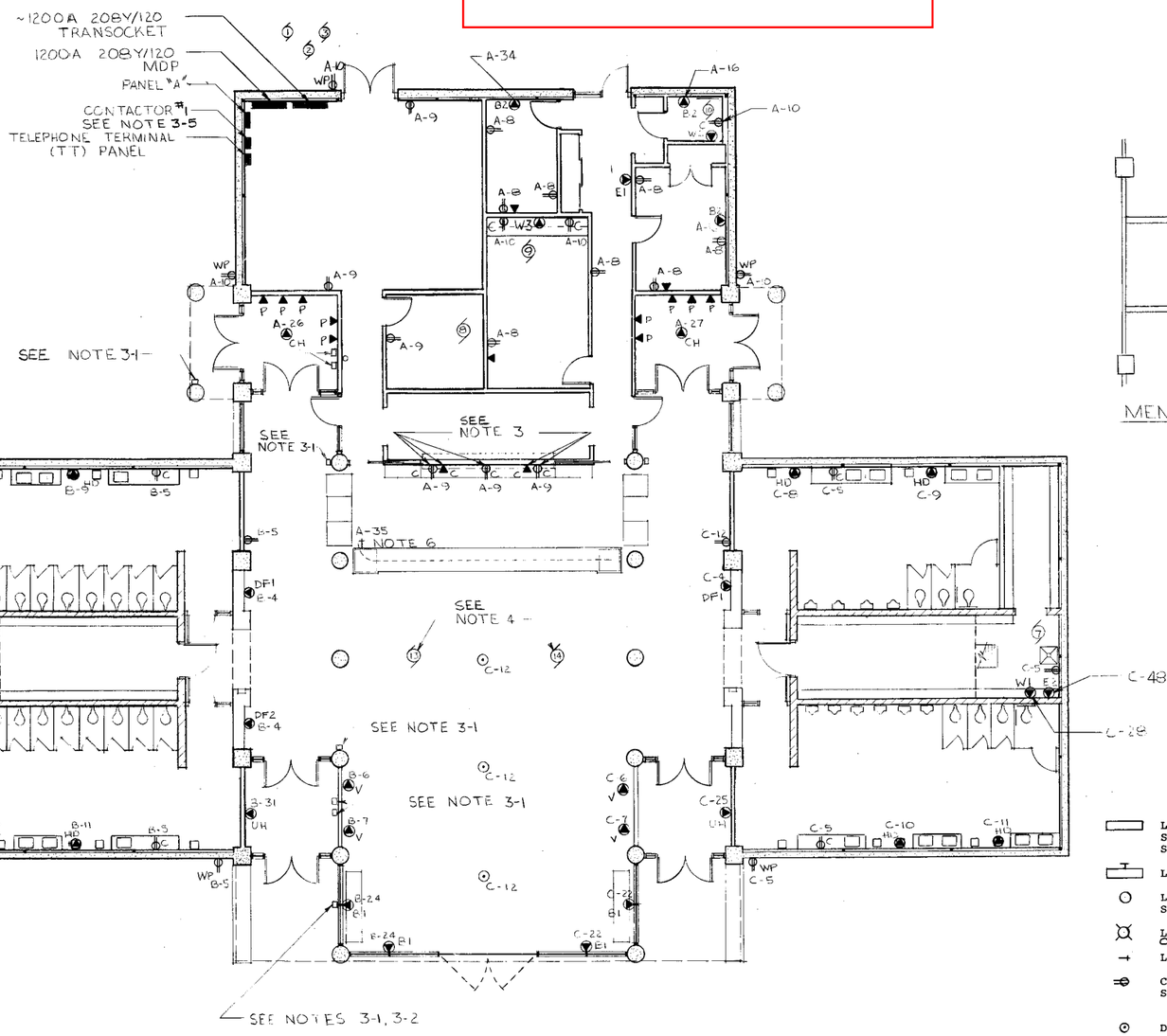
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.50

ELECTRICAL FLOOR PLAN E-3

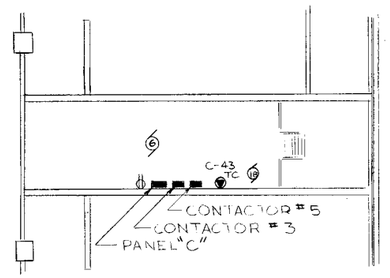
Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.



WOMEN'S TOILET ROOM MEZZANINE
SCALE: 1/8" = 1'



MAIN FLOOR PLAN
SCALE: 1/8" = 1'



MEN'S TOILET ROOM MEZZANINE
SCALE: 1/8" = 1'

NOTES

3-1. PUSH PLATE FOR HANDICAP DOOR, 3#14. ½" C TO HANDICAP DOOR CONTROL PANEL IN MECHANICAL ROOM #10.

3-2. PUSH PLATE TO BE RECESSED INTO WINDOW MULLION.

3-3. CONVENIENCE OUTLETS AND TELEPHONE RECEPTACLES TO BE MOUNTED HORIZONTALLY.

3-4. WIRE FOR TRANSFER FANS TO BE RUN IN UNISTRUT CHANNEL RECESSED INTO PERLIN. SEE DETAIL 2 ON SHEET A-19.

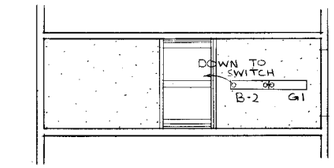
3-5. LOCATE CONTACTOR #1 OVER TELEPHONE TERMINAL (TT) PANEL.

3-6. CONNECT TO MAP LIGHT UNDER COUNTER.

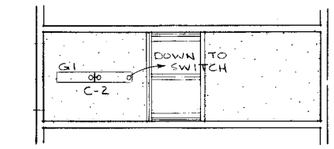
SYMBOLS

- LIGHTING FIXTURE - FLUORESCENT, MOUNTED ON/IN CEILING. SURFACE OR RECESSED AS SPECIFIED IN LIGHTING FIXTURE SCHEDULE
- LIGHTING FIXTURE - FLUORESCENT WALL MOUNTED
- LIGHTING FIXTURE - INCANDESCENT, HID OR FLUORESCENT - SEE SCHEDULE
- LIGHTING FIXTURE - SURFACE OR PENDANT MOUNTED ON CEILING.
- LOCAL SWITCH - SINGLE POLE OR 3-WAY AS INDICATED
- CONVENIENCE OUTLET - DUPLEX RECEPTACLE
  SUBSCRIPTS: (C) MOUNTED 6" ABOVE COUNTER
  (WP) WEATHERPROOF
- DUPLEX RECEPTACLE - FLUSH FLOOR TYPE
- TELEPHONE RECEPTACLE
  SUBSCRIPT: (P) PAY TELEPHONE TYPE MOUNTED 56" AFF
  (C) MOUNTED 6" ABOVE COUNTER
- SPECIAL PURPOSE OUTLET - SEE SCHEDULE
- MOTOR - SEE SCHEDULE
- PROTECTIVE DEVICE - DISCONNECT SWITCH
- PROTECTIVE DEVICE - DISCONNECT SWITCH/ STARTER-COMBINATION

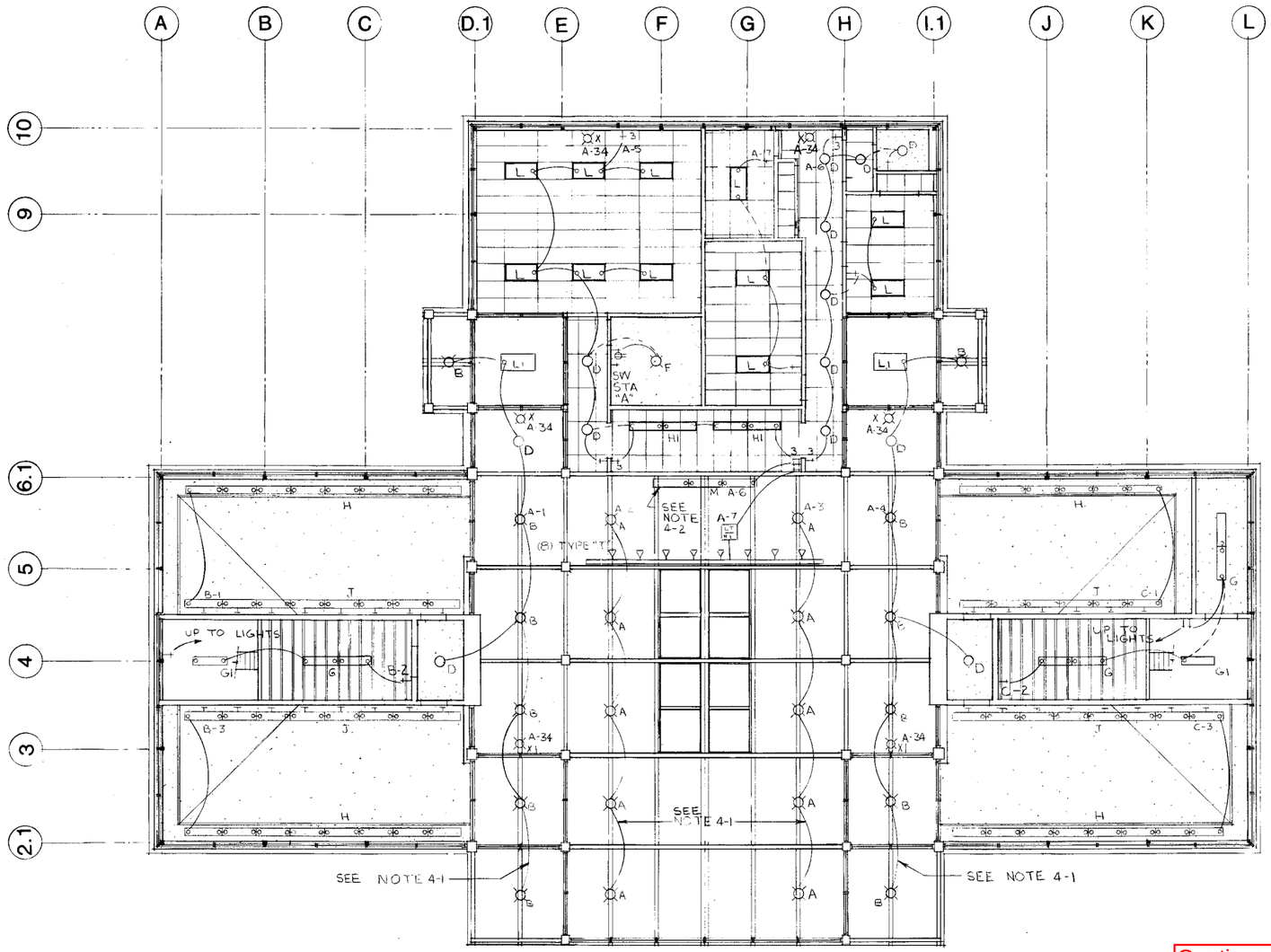
STATE PROJECT NUMBER	SHEET NO.
1032·07·73	2.51
ELECTRICAL CEILING PLAN	E-4



WOMEN'S TOILETROOM MEZZANINE



MEN'S TOILETROOM MEZZANINE



SWITCH STATION SCHEDULE

SW. STA.	NO.	TYPE	CONTROLLING PLATE ENGRAVED	CONTROLLING CIRCUIT	SEE NOTE
A	1	⊣	WEST SIDE CORR.	A-1	
	2	⊣	MAIN AREA-WEST	A-2	
	3	⊣	MAIN AREA-EAST	A-3	
	4	⊣	EAST SIDE CORR.	A-4	
	5	⊣	WMN'S ROOMS	B-35	
	6	⊣	MEN'S ROOMS	C-34	

PLAN NOTES

4-1. WIRE SHALL BE RUN IN UNISTRUT CHANNEL, RECESSED INTO PERLIN, SEE DETAIL 2 ON SHEET A-19.

4-2 INSTALL ON TOP OF INFORMATION COUNTER DIRECTED UP.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

LIGHTING FIXTURE SCHEDULE

NO	LAMP DATA NO	LAMP DATA TYPE	DESCRIPTION	LIGHTING FIXTURES MAKE	LIGHTING FIXTURES CATALOG NO.	MTD.	CLG. TYPE	SEE NOTE	VOLTS
A	1	M250/3K BU	INDUSTRIAL HIGH BAY REMOTE MOUNT UNIT	BENJAMIN	IRM-250-120	SUSP.			120
				DAY-BRITE	RB25MH-12-MBA-S6	SUSP.			120
				LUMARK	MHSS-SA18C-250-120SS	SUSP			120
B	1	PAR 38	CYLINDER WITH BLACK MILLIGROOVE BAFFLE	PRESCOLITE	1125-920 BLK	SUSP			120
				CAPRI	PC 1501 BLK	SUSP			120
				HALO	H1312 BZ	SUSP			120
D	2	2-PL26W	OPEN APERTURE DNLTS W/ALZAK REFLECTOR	PRESCOLITE	CFR826-492	RECESS			120
				OMEGA	EY5085 TW	RECESS			120
				COOPER	H17826-9826C	RECESS			120
F	1	100A	PORCELAIN LAMPHOLDER	P&S	44	SURFACE			120
G	2	F40 LW	2 LAMP STRIP W/SYM REFL	WILLIAMS	7622	SURFACE		LF-3	120
				DAY-BRITE	48295-4	SURFACE			120
				LITHONIA	UN 248 120	SURFACE		LF-4	120
G1	2	F40 LW	SAME AS TYPE "G" EXCEPT SUSPENDED	WILLIAMS	7622	SUSP.		LF-3	120
				DAY-BRITE	48295-4	SUSP.			120
				LITHONIA	UN 248 120	SUSP		LF-4	120
H	2	F40 WW -WM	1X4 TROFFER W/(.125) ACRYLIC LENS	WILLIAMS	EPF-S122-RWXA125	RECESS	CONCEAL		120
				DAY-BRITE	SF142 MFS21A	RECESS	CONCEAL		120
				LITHONIA	SPF 240 A12.125 120	RECESS	CONCEAL		120
H1	2	F40 WW -WM	SAME AS TYPE "H" EXCEPT LAY-IN	WILLIAMS	EPG-S122-RWXA125	RECESS	LAY-IN		120
				DAY-BRITE	SG 142 - MFS21A	RECESS	LAY-IN		120
				LITHONIA	SPG 240 A12.125 120	RECESS	LAY-IN		120
J	2	F40W/W -WM	WALL BRACKET	BENJAMIN	C2X-2229-4 W	WALL			120
				METALUX	B1U-240-120	WALL			120
				LITHONIA	WB 240	WALL		LF-1	120
L	3	F40 WW -WM	2X4 TROFFER W/(.125) ACRYLIC LENS	WILLIAMS	EPG-S223-RWXA 125	RECESS	LAY-IN		120
				DAY-BRITE	SG 243 - MFS210	RECESS	LAY-IN		120
				LITHONIA	2GT 340 A12.125 120	RECESS	LAY-IN		120
M	1	F40 WW -WM	SINGLE LAMP STRIP	WILLIAMS	7520	SURFACE		LF-2	120
				DAY-BRITE	S-140 HRS	SURFACE		LF-2	120
				LITHONIA	S-140 HRS120	SURFACE		LF-2	120
T	1	R-20	ROUND BACK CYLINDER FOR LIGHT TRACK	PRESCOLITE	T112	TRACK			120
				CAPRI	KT220-2	TRACK			120
				LITHONIA	TCR-20	TRACK			120
X	1	GWT-5	EXIT MATTE BLACK STENCIL FACE	LITHONIA	FAS 1R	SURFACE			120
	2	PL-7		SILTRON	UXF-DR-120 B	SURFACE			120
	1	PL-7		DUAL-LITE	FLX-1-RB	SURFACE			120
X1	1	GWT-5	SAME AS TYPE "X" EXCEPT PENDANT MOUNTED	LITHONIA	FAS 1R	PENDANT		LF-5	120
	2	PL-7		SILTRON	UXF-DR-120-B	PENDANT		LF-6	120
	1	PL-7		DUAL-LITE	FLX-1-RB	PENDANT		LF-7	120

NOTES

1. LIGHT FIXTURE SHALL BE PROVIDED WITH TOP AND BOTTOM ACRYLIC LENS.
2. LIGHT FIXTURES MOUTED FACING UP ON TOP OF BACK COUNTER AT INFORMATION COUNTER.
3. INCLUDE SYMMETRIC REFLECTOR CAT NO. R1240.
4. INCLUDE SYMMETRIC REFLECTOR CAT NO. AS48.
5. INCLUDE STEM CAT. NO. ES12.
6. INCLUDE STEM CAT NO P12.
7. INCLUDE STEM CAT NO FF-PM-B.

SPECIAL OUTLET SCHEDULE — GENERAL: Drawing Symbol — ⏃

MARK TO	MARK UO	EQUIPMENT SERVED TYPE	ELECTRICAL CHARACTER LOC.	HP	KW	AMPS	VOLT	Ø	PWR. SOURCE PANEL	PWR. SOURCE C/B	TERMINAL R	TERMINAL D	TERMINAL B	SO NOTE
HD		HAND DRYER			2.0	(30)	120	1	SEE	DWG			X	
DF1		DRINKING FOUNTAIN - SINGLE			0.6		120	1	SEE	DWG	X			
DF2		DRINKING FOUNTAIN - 2 LEVEL			0.6		120	1	SEE	DWG	X			
V		VENDING MACHINE			1.0		120	1	SEE	DWG	X*			
UH		ELEC. CABINET UNIT HTR.			6.0		208	3	SEE	DWG			X	
B1		ELEC. BASE BOARD HTR.			1.0		208	1	SEE	DWG			X	
B2		ELEC. BASE BOARD HTR.			1.0		208	1	SEE	DWG			X	
CH		ELEC. CEILING HEATER			5.0		208	3	SEE	DWG			X	
	E1	ELEC. WALL HEATER	RM21		4.0		208	1	A	17			X	
W1		WATER HEATER TYPE A			12.0	(30)	208	3	SEE	DWG		X		
	W2	WATER HEATER TYPE B	RM27		4.6	(30)	208	1	A	13		X		
	W3	WATER HEATER TYPE C	RM20		8.0	(50)	208	1	A	12		X		
E2		ELEC. WALL HEATER			1.5		208	1	SEE	DWG			X	
	HT	HEAT TAPE - WELL PUMP CONTROL	POND		1.0		120	1	C	33				1
	SV	SOL VALVE - FOUNTAIN CONTROL	POND		1.0		120	1	C	35				1
TC		TEMPERATURE CONTROL PANEL			0.5		120	1	SEE	DWG			X	
	H1	UNIT HEATER - MAINT. BLDG.	MAINT BLDG.		15		208	3	M	5			X	

MOTOR WIRING SCHEDULE 6

NO.	MOTOR CHARACTERISTICS HP	VOLT	Ø	DRIVING/LOCATION	X-REF. DES.	PWR FEED SOURCE	PWR FEED NO	STARTER TYPE	F	I	W	LOC.	CONTROL TYPE	F	I	W	LOC.	MW NOTE
1	50 MCA	208	3	CONDENSING UNIT	CU.1	MDP	-	MAG	HV	EC	EC	IU						1
2	50 MCA	208	3	CONDENSING UNIT	CU.2	MDP	-	MAG	HV	EC	EC	IU						1
3	17 MCA	208	3	CONDENSING UNIT	CU.3	MDP	-	MAG	HV	EC	EC	IU						2
4	3.0	208	3	AIR HANDLING UNIT	AC.1	B	25	COMB	HV	EC	EC	NU						
5	½	208	3	EXHAUST FAN	E.F.1	B	16	COMB	HV	EC	EC	NU						
6	3.0	208	3	AIR HANDLING UNIT	A.C.2	C	15	COMB	HV	EC	EC	NU						
7	½	208	3	EXHAUST FAN	E.F.2	C	28	COMB	HV	EC	EC	NU						
8	⅓	120	1	GAS FURNACE	G.F.1	A	11	MAN.	HV	EC	EC	NU						
9	3.3 MCA	120	1	EXHAUST FAN	E.F.3	A	33	—	—	-	-	—	SPEED SWITCH	EC	EC	EC	BM 20	3
10	1.0 MCA	120	1	EXHAUST FAN	E.F.4	A	6	—	-	-	-	—	LIGHT SWITCH	EC	EC	EC	BM 21	4
11				NOT USED														
12	½	120	1	AIR COMPRESSOR		B	12	MAN	V	EC	EC	NU						
13	1/11	120	1	CEILING TRANS. FAN	T.F.1	A	30	MAN	HV	EC	EC	07						
14	1/11	120	1	CEILING TRANS. FAN	T.F.2	A	32	MAN	HV	EC	EC	07						
15	10	208	3	FLOAT FOUNT. PUMP		C	39	MAG	V	EC	EC	CP						5,6
16	2	208	3	WELL PUMP		C	38	MAG	V	EC	EC	CP						5,6
17	1.9A	120	1	GAS DUCT FURNACE	G.D.F.1	B	34	MAN	HV	EC	EC	NU						
18	1.9A	120	1	GAS DUCT FURNACE	G.D.F.2	C	44	MAN	HV	EC	EC	NU						

NOTES

1. PROVIDE WATERPROOF DISCONNECT SWITCH, SQUARE D, MODEL NO. DU323RB.
2. PROVIDE WATERPROOF DISCONNECT SWITCH, SQUARE D, MODEL NO. DU321RB.
3. WIRE TO SPEED SWITCH
4. WIRE TO LIGHT SWITCH IN ROOM 27.
5. INSTALLED UNDER A FUTURE/CONCURRENT CONTRACT.
6. STARTERS LOCATED IN CONTROL PANEL

NOTES

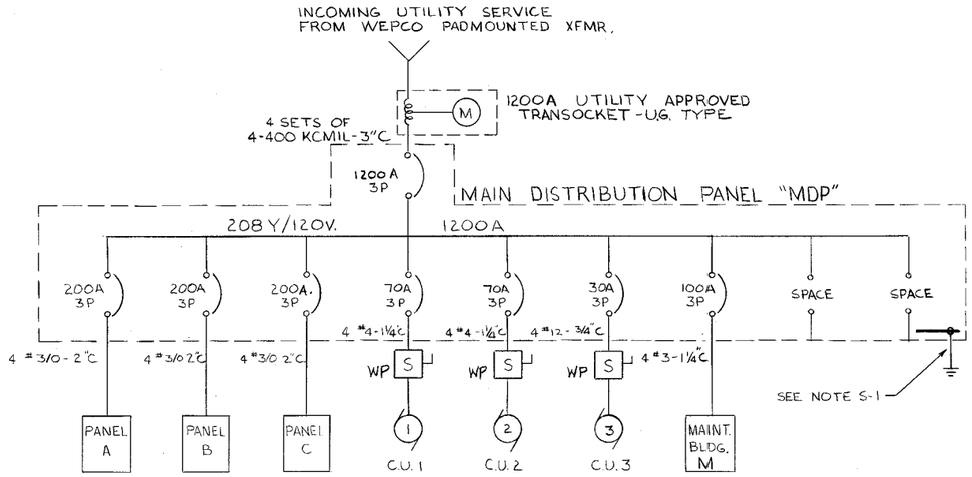
1. INSTALLED UNDER A FUTURE/CONCURRENT CONTRACT.

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

ABBREVIATIONS

IU	INTEGRAL TO UNIT
NU	NEAR UNIT
HV	HEATING/VENTILATING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
F	FURNISHED BY
I	INSTALLED BY
W	WIRED BY
CP	CONTROL PANEL

STATE PROJECT NUMBER	SHEET NO.
1032-07-73	2.53
SERVICE RISER AND SCHEDULES	E-6



DISTRIBUTION SERVICE RISER

S-1. PROVIDE 4 SETS OF #1/0 COPPER GROUNDING CONDUCTORS TO BUILDING WATER SERVICE.

CONTACTOR SCHEDULE

NO.	CONTACTOR CAT. NO.	SQUARE D RTG	P	LOCTION	TO CONTROL CIRCUITS TOT.	PANEL	NOS'S	CONTROL	COIL CKT. PANEL	NO.	SEE NOTE
1	LG-60	20	6	RM 23	4	A	20,21,22,23	PHOTOCELL	A	31	1
2	LG-60	20	6	WOMEN'S MEZZ.	3	B	20,21,22	PHOTOCELL	B	19	1
3	LG-40	20	4	MEN'S MEZZ.	2	C	20,21	PHOTOCELL	C	32	1
4	LG-20	20	2	WOMENS MEZZ.	2	B	1,3	SWITCH	B	35	2
5	LG-20	20	2	MENS MEZZ.	2	C	1,3	SWITCH	C	34	3

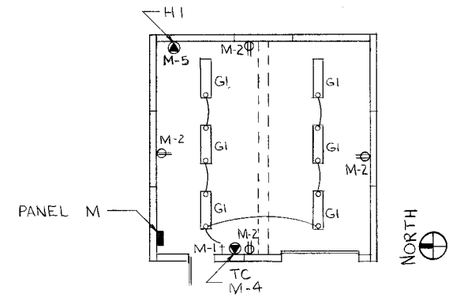
NOTES

1. CONTACTORS CONTROLLED BY PHOTOCELLS, PARAGON MODEL NO. PJ201-00 LOCATED ON NORTH EDGE OF INFORMATION CENTER ROOF.
2. CONTACTOR FOR WOMEN'S TOILETROOM LIGHTING, CONTROLLED BY SWITCH IN MECHANICAL EQPT. ROOM 19
3. CONTACTOR FOR MEN'S TOILETROOM LIGHTING, CONTROLLED BY SWITCH IN MECHANICAL EQPT. ROOM 19.

MAIN DISTRIBUTION PANEL/FEEDER SCHEDULE: MDP

MARK: MDP | VOLTAGE RATING: 208Y/120V. | MAINS: 1200A. MC/B | ENCLOSURE TYPE: SURF
LOCATION: RM. 23 | AMPERAGE RATING: 1200A.

C/B	C/B COMPLEMENT P	TRIP	AIC	TO FEED	LD	CU FEEDER NO	SIZE	CD	MDP NOTE
1	3	200	MINIMUM 10,000 AIC	PANEL "A"		4	3/0	2"	
2	3	200		PANEL "B"		4	3/0	2"	
3	3	200		PANEL "C"		4	3/0	2"	
4	3	70		CONDENSING UNIT #1		3	4	1"	
5	3	70		CONDENSING UNIT #2		3	4	1"	
6	3	30		CONDENSING UNIT #3		3	12	¾"	
7	3	100		MAINT. BLDG. PANEL "M"		4	3	1¼"	
8	3			SPACE					
9	3			"					



MAINTENANCE BUILDING
SCALE: 1/8" = 1'

Caution: These file drawings are provided for general reference only, and are not guaranteed to accurately reflect actual conditions. Field verify all information pertinent to the work.

PANELBOARD SCHEDULE

MARK A | LOCATION RM 23
TYPE BOLTED | ACC.
ENCLOSURE SURFACE | ACC.
VOLTAGE 208Y/120 | AMPS. 200
INT. DUTY 10K
MAINS M LO

LOAD	O	CODE	P	AMP.	C/B	C/B	AMP.	P	CODE	O	LOAD
1.5	9	L	1	20	1	2	20	1	L	5	1.4
1.4	5	L	1	20	3	4	20	1	L	9	1.3
1.6	13	L	1	20	5	6	20	1	L	12	1.2
1.4	11	L	1	20	7	8	20	1	R	8	1.2
0.9	6	R	1	20	9	10	20	1	R	6	0.9
½HP	1	M-8	1	20	11	12	20	2	SP W3	1	8.0
4.6	1	SP W2	2	30	13	14					
					15	16	20	2	SP B2	2	2.0
4.0	1	SP E1	2	30	17	18					
					19	20	20	1	L	6	1.1
1.2	6	L	1	20	21	22	20	1	L	5	1.2
0.9	6	L	1	20	23	24					
					25	26	20	3	SP CH	1	5.0
3.0	1	SP CH	3	20	27	28					
					29	30	20	1	M-13	1	½HP
0.2	1	C	1	20	31	32	20	1	M-14	1	½HP
3.3 MCA	1	M-7	1	20	33	34	20	2	SP B2	1	1.0
0.2	2	L	1	20	35	36					
		SPR	1	20	37	38	20	1	SPR		
0.2	3	L	1	20	39	40	20	1	SPR		
		SPC			41	42			SPC		

MARK | LOCATION
TYPE | ACC.
ENCLOSURE | ACC.
VOLTAGE | AMPS.
INT. DUTY
MAINS

LOAD	O	CODE	P	AMP.	C/B	C/B	AMP.	P	CODE	O	LOAD
		SPC			43	44			SPC		
		SPC			45	46			SPC		
		SPC			47	48			SPC		
		SPC			49	50			SPC		
		SPC			51	52			SPC		
		SPC			53	54			SPC		
		SPC			55	56			SPC		
		SPC			57	58			SPC		
		SPC			59	60			SPC		
		SPC			61	62			SPC		
		SPC			63	64			SPC		
		SPC			65	66			SPC		
		SPC			67	68			SPC		
		SPC			69	70			SPC		
		SPC			71	72			SPC		
		SPC			73	74			SPC		
		SPC			75	76			SPC		
		SPC			77	78			SPC		
		SPC			79	80			SPC		
		SPC			81	82			SPC		
		SPC			83	84			SPC		

PANELBOARD SCHEDULE

MARK B | LOCATION WOMEN'S MEZZ.
TYPE BOLTED | ACC.
ENCLOSURE SURFACE | ACC.
VOLTAGE 208Y/120 | AMPS. 200
INT. DUTY 10K
MAINS M LO

LOAD	O	CODE	P	AMP.	C/B	C/B	AMP.	P	CODE	O	LOAD
1.6	16	L	1	20	1	2	20	1	L	5	0.5
1.6	16	L	1	20	3	4	20	1	SP DF	2	1.2
0.9	6	R	1	20	5	6	20	1	SP V	1	1.0
1.0	1	SP V	1	20	7	8	30	1	SP HD	1	2.0
2.0	1	SP HD	1	30	9	10	30	1	SP HD	1	2.0
2.0	1	SP HD	1	30	11	12	20	1	M-12	1	½HP
					13	14					
12	1	SP W1	3	20	15	16	20	3	M-5	1	½HP
					17	18					
0.2	1	C	1	20	19	20	20	1	L	8	1.2
1.0	5	L	1	20	21	22	20	1	L	4	0.8
					23	24	20	2	SP B1	2	3.0
3HP	1	M-4	3	20	25	26					
					27	28	20	2	SP E2	1	1.5
					29	30					
6.0	1	SP UH	3	20	31	32	20	1	SP TC	1	0.5
					33	34	20	1	M-17	1	0.2
0.2	1	C	1	20	35	36	20	1	SPR		
		SPR	1	20	37	38	20	1	SPR		
0.2	3	L	1	20	39	40			SPC		
		SPC			41	42			SPC		

MARK | LOCATION
TYPE | ACC.
ENCLOSURE | ACC.
VOLTAGE | AMPS.
INT. DUTY
MAINS

LOAD	O	CODE	P	AMP.	C/B	C/B	AMP.	P	CODE	O	LOAD
		SPC			43	44			SPC		
		SPC			45	46			SPC		
		SPC			47	48			SPC		
		SPC			49	50			SPC		
		SPC			51	52			SPC		
		SPC			53	54			SPC		
		SPC			55	56			SPC		
		SPC			57	58			SPC		
		SPC			59	60			SPC		
		SPC			61	62			SPC		
		SPC			63	64			SPC		
		SPC			65	66			SPC		
		SPC			67	68			SPC		
		SPC			69	70			SPC		
		SPC			71	72			SPC		
		SPC			73	74			SPC		
		SPC			75	76			SPC		
		SPC			77	78			SPC		
		SPC			79	80			SPC		
		SPC			81	82			SPC		
		SPC			83	84			SPC		

PANELBOARD SCHEDULE

MARK C | LOCATION MEN'S MEZZ.
TYPE BOLTED | ACC.
ENCLOSURE SURFACE | ACC.
VOLTAGE 208Y/120 | AMPS. 200
INT. DUTY 10K
MAINS MLO

LOAD	O	CODE	P	AMP.	C/B	C/B	AMP.	P	CODE	O	LOAD
1.2	12	L	1	20	1	2	20	1	L	7	0.7
1.6	16	L	1	20	3	4	20	1	SP DF	1	0.6
0.8	5	R	1	20	5	6	20	1	SP V	1	1.0
1.0	1	SP V	1	20	7	8	30	1	SP HD	1	2.0
2.0	1	SP HD	1	30	9	10	30	1	SP HD	1	2.0
2.0	1	SP HD	1	30	11	12	20	1	R	4	0.6
					13	14					
3HP	1	M-6	3	20	15	16	20	3	M-7	1	½HP
					17	18					
		SPR	1	20	19	20	20	1	L	5	1.0
0.8	5	L	1	20	21	22	20	2	SP B1	2	3.0
6.0	1	SP UH	3	20	23	24					
					25	26					
					27	28	30	3	SP W1	1	12.0
					29	30					

MARK | LOCATION
TYPE | ACC.
ENCLOSURE | ACC.
VOLTAGE | AMPS.
INT. DUTY
MAINS

LOAD	O	CODE	P	AMP.	C/B	C/B	AMP.	P	CODE	O	LOAD
		SPR	1	20	31	32	20	1	C	1	0.2
1.0	1	SP HT	1	20	33	34	20	1	C	1	0.2
1.0	1	SP SV	1	20	35	36					
					37	38	20	3	M-16	1	3HP
10HP	1	M-15	3	30	39	40					
					41	42	20	1	L	3	1.5
0.5	1	SP TC	1	20	43	44	20	1	M-18	1	0.2
		SPR	1	20	45	46	20	1	SPR		
0.2	3	L	1	20	47	48	20	2	SP E2	1	1.5
		SPC			49	50					
		SPC			51	52			SPC		
		SPC			53	54			SPC		
		SPC			55	56			SPC		
		SPC			57	58			SPC		
		SPC			59	60			SPC		

PANELBOARD SCHEDULE

MARK M | LOCATION MAINT. BLDG.
TYPE BOLTED | ACC.
ENCLOSURE SURFACE | ACC.
VOLTAGE 208Y/120 | AMPS. 100
INT. DUTY 10K
MAINS MLO

LOAD	O	CODE	P	AMP.	C/B	C/B	AMP.	P	CODE	O	LOAD
0.6	6	L	1	20	1	2	20	1	R	4	0.6
					3	4	20	1	SP TC	1	0.5
15.	1	SP H1	3	40	5	6	20	1	SPR		
					7	8	20	1	SPR		
		SPR	1	20	9	10			SPC		
		SPC			11	12			SPC		
		SPC			13	14			SPC		
		SPC			15	16			SPC		
		SPC			17	18			SPC		
		SPC			19	20			SPC		

PANELS "A" AND "B" SINGLE TUBS, 42 CIRCUITS EACH.
PANEL "C" DOUBLE TUB, 30 CIRCUITS EACH, DUAL LUGS ON ONE TUB.

ABBREVIATIONS

SP	SPECIAL PURPOSE RECEPTACLE
M	MOTOR
L	LIGHTING
C	CONTACTOR
R	RECEPTACLE
SPR	SPARE
SPC	SPACE

DATE 22APR13 E S T I M A T E O F Q U A N T I T I E S

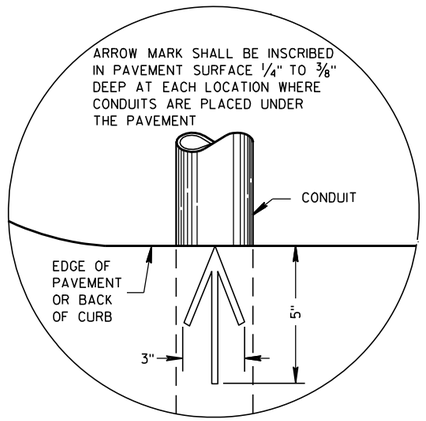
LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1030-31-72 QUANTITY
0010	629.0210	FERTILIZER TYPE B	CWT	0.060	0.060
0020	631.0300	SOD WATER	MGAL	3.000	3.000
0030	631.1000	SOD LAWN	SY	76.000	76.000
0040	652.0210	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH	LF	180.000	180.000
0050	652.0700.S	INSTALL CONDUIT INTO EXISTING ITEM	EACH	1.000	1.000
0060	654.0111	CONCRETE BASES TYPE 11	EACH	3.000	3.000
0070	655.0615	ELECTRICAL WIRE LIGHTING 10 AWG	LF	924.000	924.000
0080	SPV.0060	SPECIAL 01. AUTOMATIC FLUSH VALVES, URINAL	EACH	10.000	10.000
0090	SPV.0060	SPECIAL 02. AUTOMATIC FLUSH VALVES, WATER CLOSET	EACH	27.000	27.000
0100	SPV.0060	SPECIAL 03. LUMINAIRES DECORATIVE LED	EACH	3.000	3.000
0110	SPV.0105	SPECIAL 01. REST AREA 26 FAMILY ASSISTED RESTROOM	LS	1.000	1.000
0120	SPV.0105	SPECIAL 02. EXTERIOR PAINTING	LS	1.000	1.000

Standard Detail Drawing List

09B02-07	CONDUIT
09B04-09	PULL BOX
09E04-05	WALKWAY LIGHTING UNIT AND CONCRETE BASE, TYPE 11

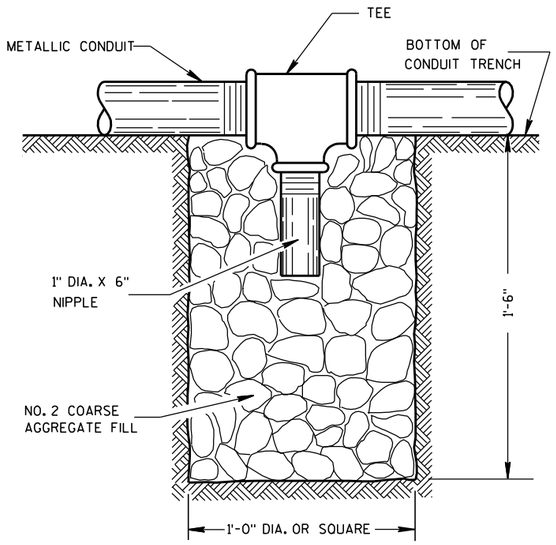
6

6



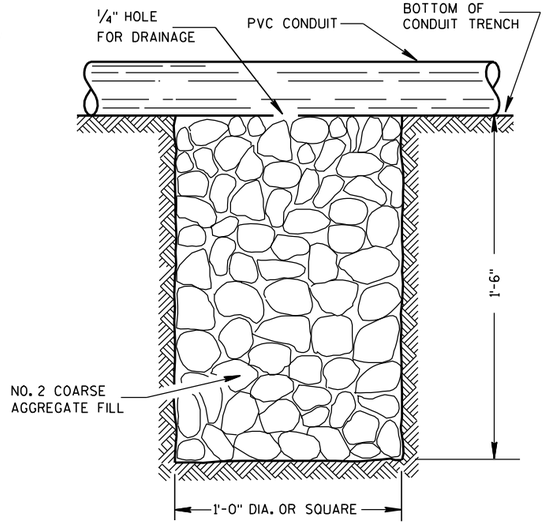
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

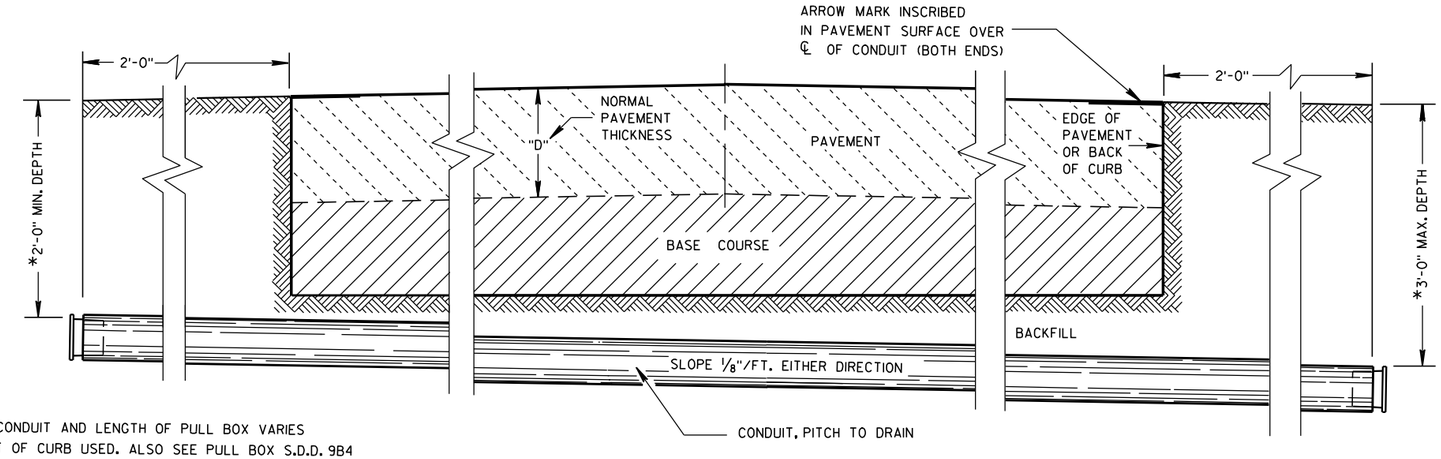
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03 DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 75 HWYS

FHWA

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE. THE MECHANICAL CONNECTION (INSIDE AND OUTSIDE) TO THE PULL BOX, SHALL BE TOTALLY AND PERMANENTLY SEALED WITH A SILICONE OR RUBBERIZED CAULKING COMPOUND AS APPROVED BY THE ENGINEER.

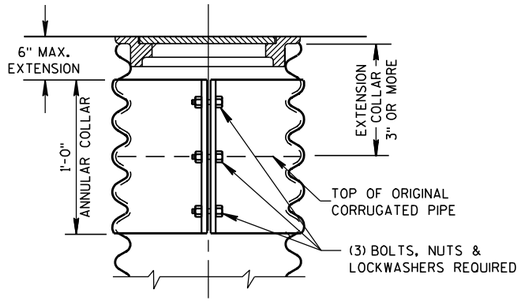
GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

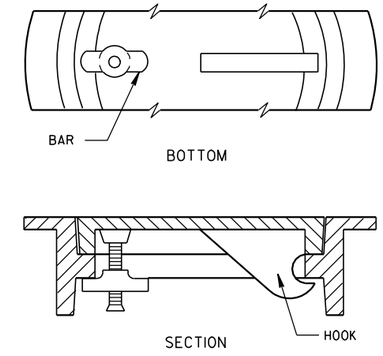
S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

IF PULL BOX EQUIPMENT GROUNDING IS REQUIRED USING AN EQUIPMENT GROUNDING ELECTRODE IN EACH PULL BOX, THE EQUIPMENT GROUNDING ELECTRODE SHALL BE 5/8" X 8'-0", COPPERCLAD AND BE EXOTHERMICALLY WELDED TO A #4 AWG, COPPER, STRANDED WIRE (BARE OR GREEN INSULATED). THE #4 AWG WIRE SHALL BE 4 FEET IN LENGTH, NEATLY COILED, TAPED AND AVAILABLE FOR USE WHEN REQUIRED.

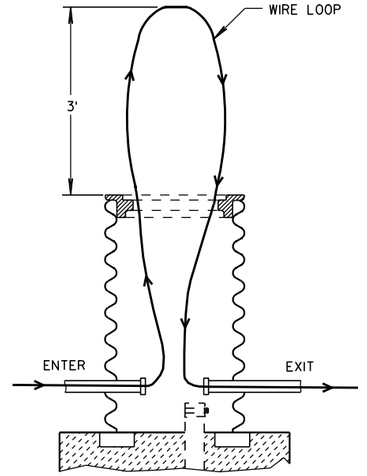


CORRUGATED PIPE EXTENDER

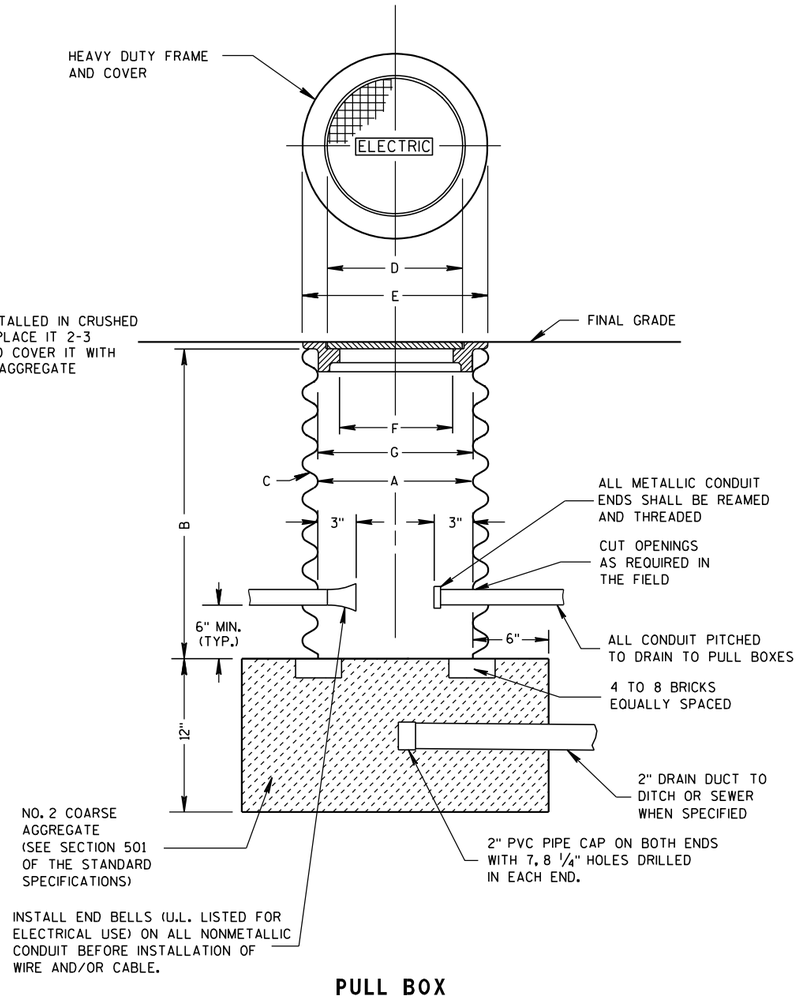


ALTERNATE COVER (LOCKING)

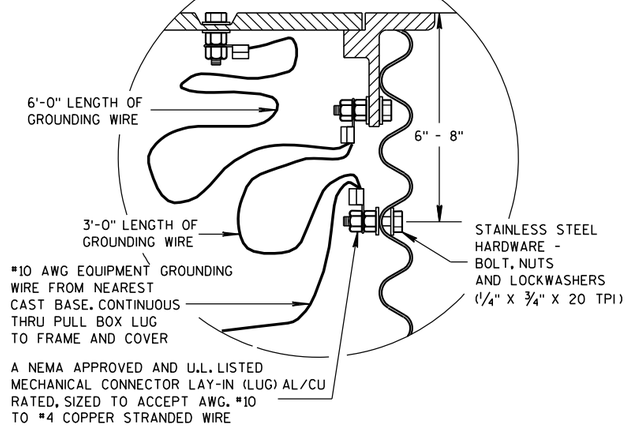
TIGHTENING BAR TYPE



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

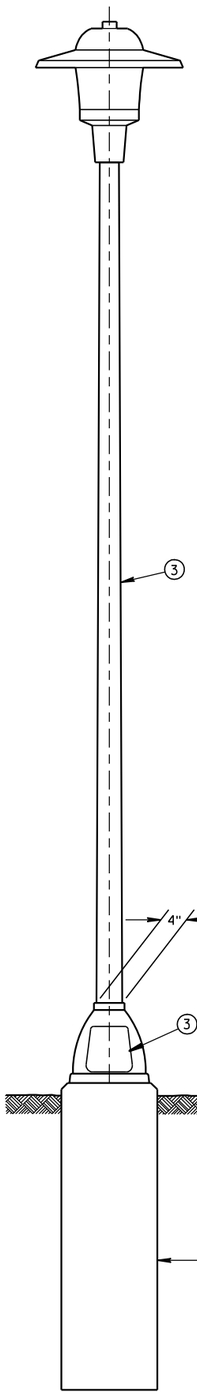
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/27/06 DATE
/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI
FHWA

6

S.D.D. 9 B 4-9

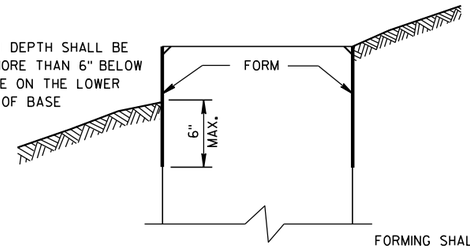


LUMINAIRE

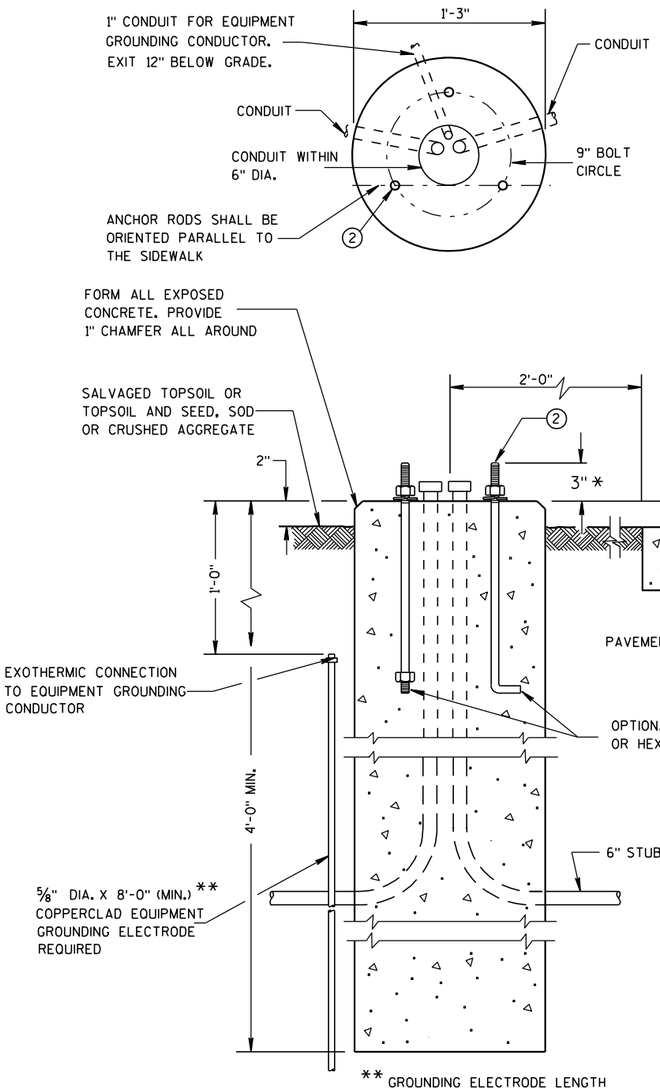
WT. = 50 LBS.
EFFECTIVE PROJECTED AREA
FOR WIND LOADING = 1.5 SQ. FT.

100 WATT HPS,
120/240 VAC HIGH POWER
FACTOR BALLAST

WALKWAY LIGHTING UNIT DETAIL



FORMING DETAIL



** GROUNDING ELECTRODE LENGTH MAY VARY, SEE SPECIAL PROVISIONS.

CONCRETE BASE, TYPE 11

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

CONCRETE BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT RUNS, NUMBER OF CONDUITS IN EACH CONCRETE BASE AND CONDUIT SIZE IS AS SHOWN ON THE PLANS. THE 1-INCH CONDUIT IS USED IN ALL BASES.

MINIMUM BENDING RADIUS OF CONDUIT SHALL BE SIX TIMES THE DIAMETER OF THE CONDUIT.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1-INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE AND BEFORE INSTALLATION OF CABLE OR WIRE.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A CONCRETE BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE CONCRETE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1-FOOT OR LESS.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NO. 4 AWG, BARE, STRANDED COPPER. IT SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED LEAVING A 2-FOOT LENGTH OF WIRE ABOVE THE CONCRETE BASE. THE 2-FOOT LENGTH OF EQUIPMENT GROUNDING CONDUCTOR ABOVE THE BASE SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL PER SECTION 5.17.6.3, AASHTO 2001 4TH EDITION STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS.

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES (CONTINUED)

(1) DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24-INCHES MIN. DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES MIN. DEPTH OF ALL CONDUITS SHALL NOT EXCEED 36-INCHES.

(2) THREE - ¾-INCH DIA. X 15-INCH ANCHOR RODS OR ¾-INCH DIA. X 19-INCH ANCHOR RODS INCLUDING THE 4-INCH "L" BEND. THE "L" BEND SHALL NOT BE THREADED. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

(3) PEDESTAL BASE-STANDARD:

THE PEDESTAL BASE-STANDARD SHALL BE A ONE PIECE WELDED UNIT, WITH AN OVERALL HEIGHT OF TEN FEET.

THE POLE SHALL BE ROUND, TAPERED, ALUMINUM WITH A 3-INCH OUTSIDE DIAMETER TOP AND 0.125 INCH WALL THICKNESS.

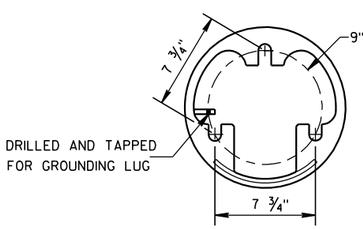
THE BELL SHAPED BASE SHALL BE 12 ½ INCHES IN DIAMETER AND HAVE A 9-INCH BOLT CIRCLE. ANCHOR RODS SHALL BE INCLUDED WITH THE BASE.

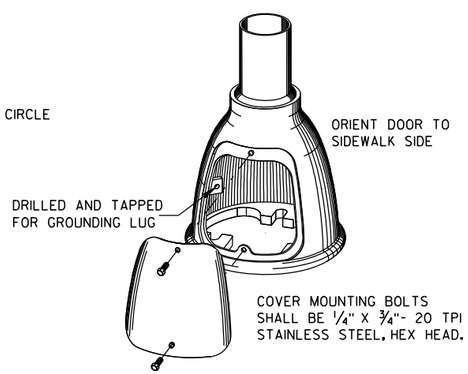
THE ACCESS DOOR OPENING SHALL BE APPROXIMATELY 7½ X 5¼ X 7½-INCHES.

THE FIXTURE AND PEDESTAL BASE-STANDARD SHALL BE PAINTED WITH AN EARTH COLORED THERMOSET POWDER COAT, ACRYLIC ENAMEL. THE ENAMEL SHALL BE FORMULATED TO SHOW NO APPRECIABLE FADING WITHIN FIVE YEARS.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED "AL/CU" TYPE. CONNECTION HARDWARE SHALL BE STAINLESS STEEL (BOLT, NUT, LOCKWASHER- ¼" X ¾" - 20 TPI

ALL NONMETALLIC CONDUIT CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES. (SEE NEC 347.5)





WALKWAY PEDESTAL BASE STANDARD DETAIL

WALKWAY LIGHTING UNIT AND CONCRETE BASE, TYPE 11

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/11/09
DATE

/S/ Joanna L. Rich
STATE ELECTRICAL ENGI

77

HWYS

FHWA

6

S.D.D. 9 E 4-5

6

S.D.D. 9 E 4-5

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

Place Sheet Numbers