

ATTACHMENT 1

Campground Permit Booth Design Drawings and Specifications

CAMPGROUND PERMIT BOOTH

ILLINOIS BEACH STATE PARK

38303 N. ILLINOIS BEACH STATE PARK

ZION, ILLINOIS

CAMPGROUND PERMIT BOOTH

DNR FILE # 2-12-012
ILLINOIS BEACH STATE PARK
38303 N. ILLINOIS BEACH STATE PARK
ZION, ILLINOIS

10/30/2012
11/7/2012
12/3/2012
12/6/2012

REVIEW
FINAL REVIEW
ISSUED FOR PERMIT/IBD
REVISED

3321 South State Road #33
Pekin, IL 61655
P: 815.444.8444

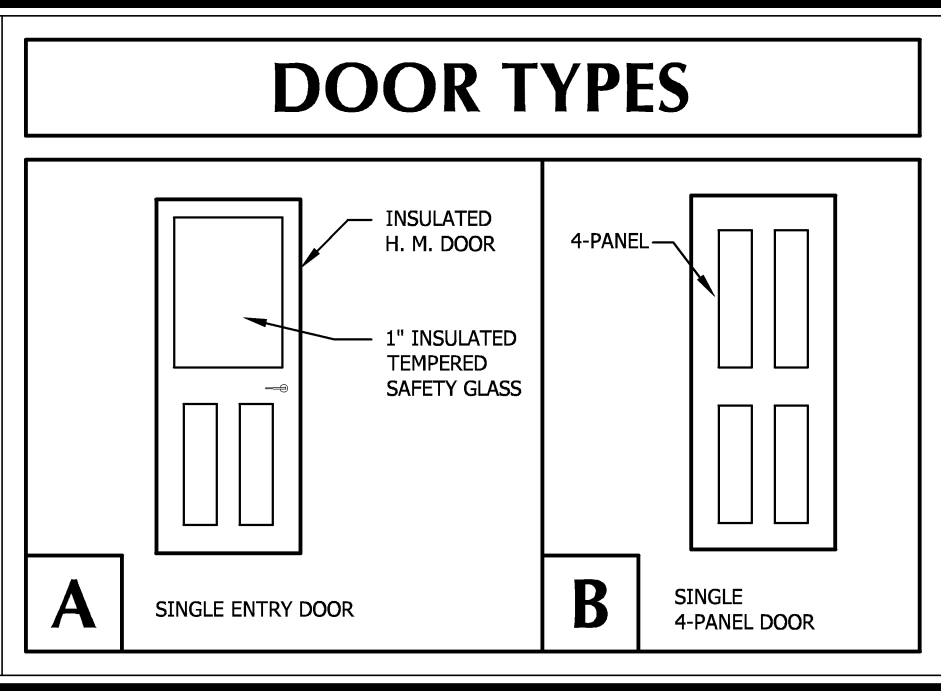
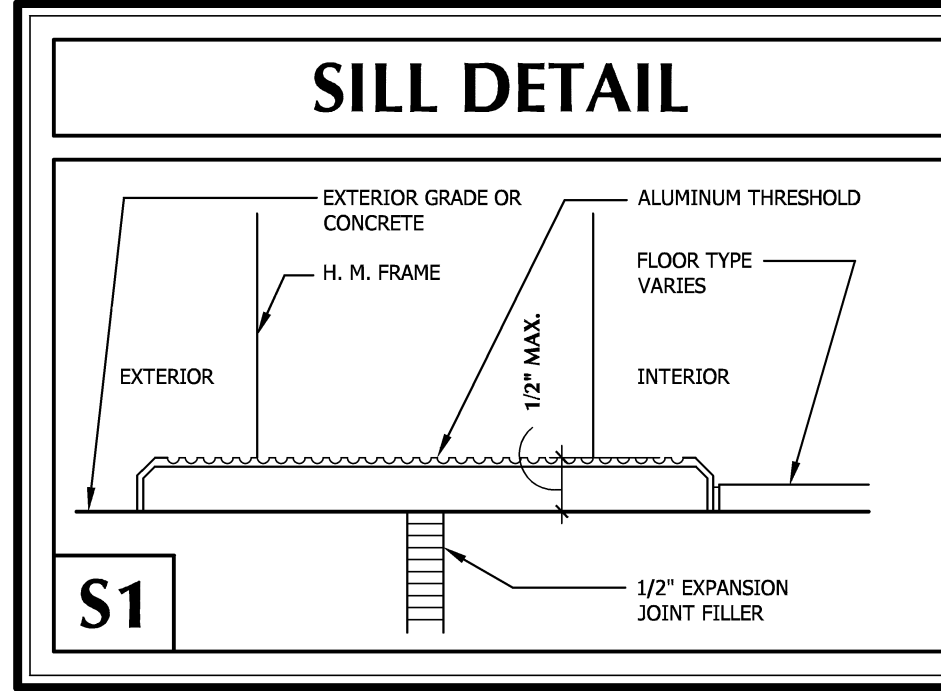
DDCA architects
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PROJECT NO. 112139
PROJECT MGR. DRH
TITLE SHEET
T1.1

| ROOM FINISH SCHEDULE | | | | | | |
|----------------------|--------------|---|---------------------------------|---|---|---------|
| MK. | ROOM | FLOOR | BASE | WALL | CEILING | REMARKS |
| | | SEALED STAINED CONCRETE EXPOSED CONSTRUCTION EXISTING | 2x6 CEDAR BASEBOARD P-2 NONE | VERTICAL T & G CEDAR PANELING - P-3 EXPOSED CONSTRUCTION | PAINTED C-GWB P-1 EXPOSED CONSTRUCTION | |
| 101 | PUBLIC AREA | | | | | |
| 102 | COUNTER AREA | | | | | |
| 103 | BACK ROOM | | | | | |

NOTES:
1. ALL FLOORING TO BE NON SLIP.
2. ALL FINISHES ARE TO HAVE 25 MAX FLAME SPREAD RATING & 50 MAX SMOKE DEVELOPMENT RATING.

| FINISH LEGEND | | | | |
|---------------|---------------------------------------|--|----------------------------------|------------------|
| MARK | DESCRIPTION | MANUFACTURER | NOTES | COLOR |
| P-1 | PAINTED C-GWB, CEILING, SEMI-GLOSS | SHERWIN WILLIAMS, BENJAMIN MOORE, OR VALSPAR | 1 PRIMER COAT 2 COAT OF PAINT | WHITE |
| P-2 | PAINTED BASE TRIM | SHERWIN WILLIAMS, BENJAMIN MOORE, OR VALSPAR | 1 PRIMER COAT 2 COAT OF PAINT | SELECTED BY IDNR |
| P-3 | PAINTED CEDAR VERTICAL T & G PANELING | SHERWIN WILLIAMS, BENJAMIN MOORE, OR VALSPAR | 1 PRIMER COAT 2 COAT OF PAINT | SELECTED BY IDNR |



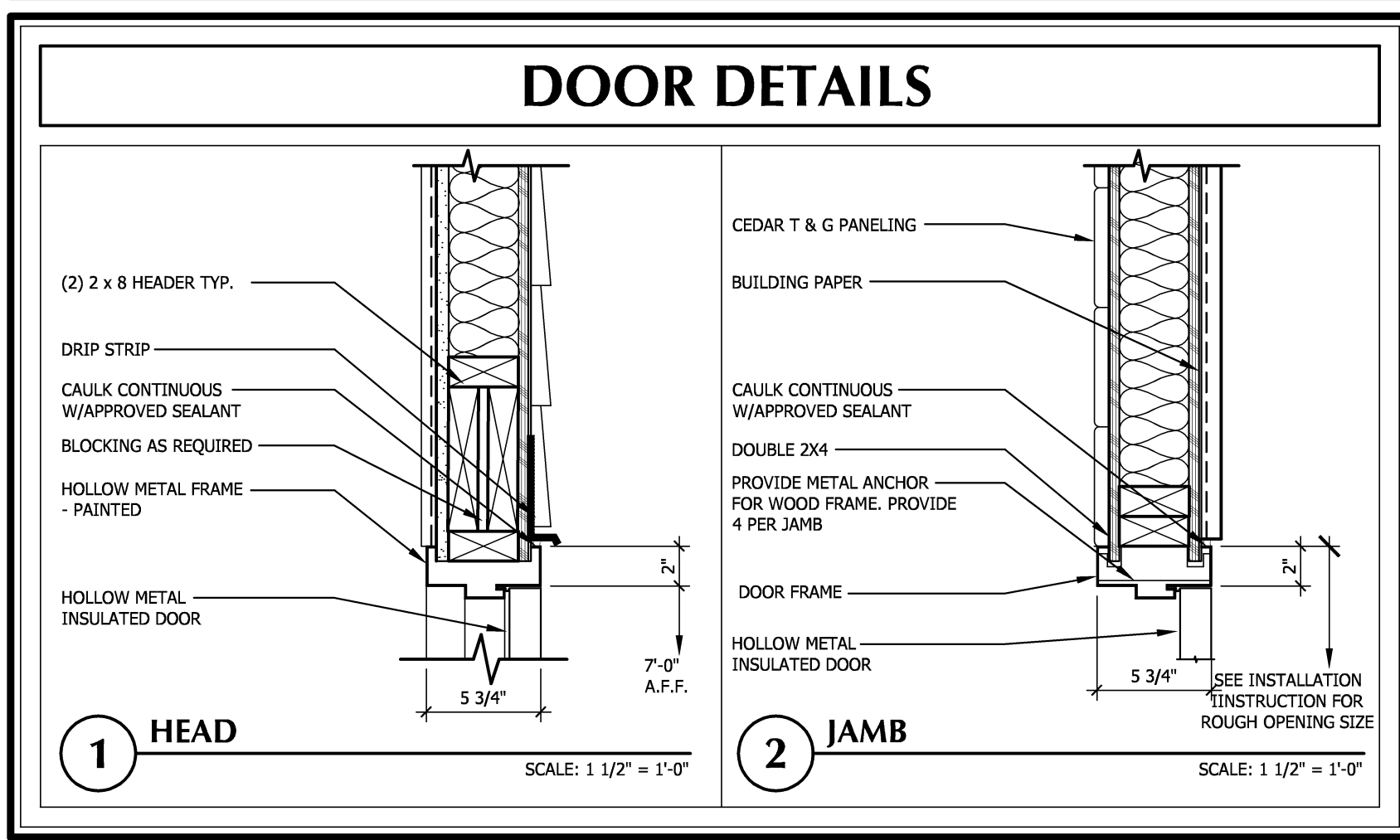
| DOOR SCHEDULE | | | | | | | | | | |
|---------------|------|---------------|--------|--------|------|------|------|--------|------|---------|
| MK. | TYPE | SIZE | THK. | MAT'L. | DOOR | | | | FIRE | REMARKS |
| | | | | | JAMB | HEAD | SILL | MAT'L. | | |
| 101A | A | 3'-0" x 7'-0" | 1 3/4" | H.M. | 2 | 1 | S1 | HM | 1 | NOTE 1 |
| 103A | B | 3'-0" x 7'-0" | 1 3/4" | H.M. | 2 | 1 | S1 | HM | 2 | NOTE 1 |

NOTES:
1. DOORS AND FRAMES TO BE PAINTED. DOORS AND FRAME TO BE GALVANIZED, A60. DOOR FACES TO BE 18G. AND FRAMES TO BE 16 G. WELDED.
2. PROVIDE DETECTABLE WARNING (KNURLED HARDWARE) AT ALL DOORS TO HAZARDOUS AREAS INCLUDING BUT NOT LIMITED TO JANITOR CLOSET, MECHANICAL & ELECTRICAL ROOMS, IN ACCORDANCE WITH ANSI 4.27.3.
3. DOOR HARDWARE SHALL BE MADE TO OPEN WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER DEVICES SHALL BE AT A MIN. HEIGHT OF 34" AND A MAX. OF 48" ABOVE FINISHED FLOOR. THE OPERATING DEVICE SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
4. FORCE TO OPEN EXTERIOR DOORS NOT TO EXCEED 8.5 LB/FT.
5. DOORS TO BE KEYED TO SITE MASTER PLAN. CHANGEABLE CORE. (COORDINATE WITH IDNR SITE MANAGER)

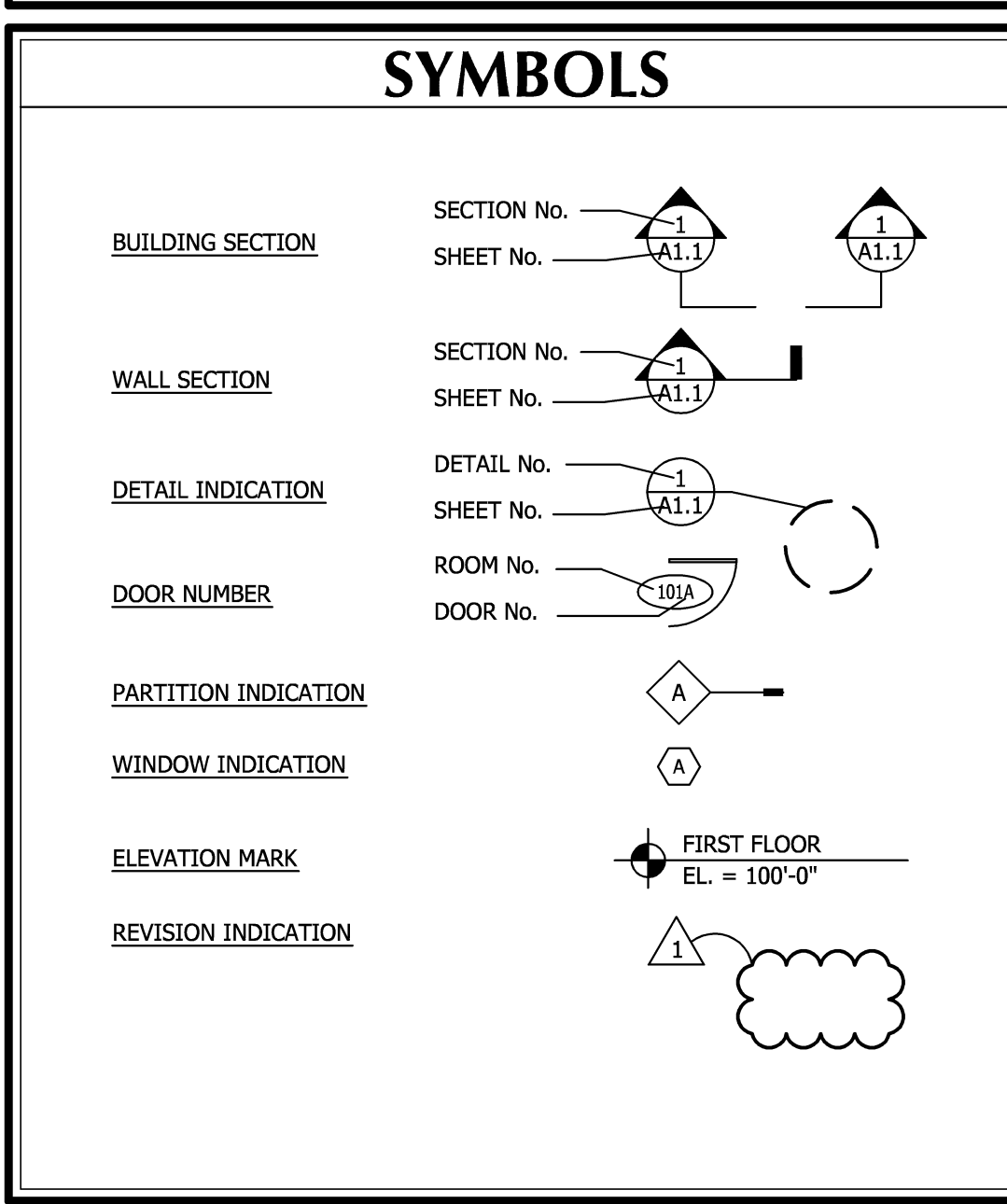
| HARDWARE SCHEDULE | | | | |
|-------------------|-------------------------------------|-------------------------|----------|---|
| HW SET 1 | DESCRIPTION | MANUFACTURER & FINISHES | | |
| | | ITEM | MFR. | MODEL |
| HW SET 1 | 1 1/2 PAIR BUTTS | HINGES | HAGAR | BB1199, 4.5"x4.5" |
| | 1 LEVER LOCKSET - ENTRANCE FUNCTION | LOCKSET | SCHLAGE | D-SERIES W/ LEVER - VERIFY MATCHES EXISTING KEY SYSTEM. |
| | 3 SILENCERS | CLOSER | LCN | 4040 SERIES SURFACE MOUNTED |
| | 1 SET WEATHERSTRIPPING | THRESHOLD BUMPER | ROCKWOOD | 404, SATIN |
| HW SET 2 | 1 1/2 PAIR BUTTS | HINGES | HAGAR | BB1199, 4.5"x4.5" |
| | 1 LEVER LOCKSET - STORAGE FUNCTION | LOCKSET | SCHLAGE | D-SERIES W/ LEVER - VERIFY MATCHES EXISTING KEY SYSTEM. |
| | 3 SILENCERS | CLOSER | LCN | 4040 SERIES SURFACE MOUNTED |
| | 1 SET WEATHERSTRIPPING | THRESHOLD BUMPER | ROCKWOOD | 404, SATIN |

ALTERNATE MANUFACTURERS
STANLEY, BALDWIN
BEST, CORBIN
YALE, CORBIN
REESE, PEMCO
HAGER, MCKINNEY

FINISH: ALL HARDWARE TO HAVE 626 FINISH.



| BUILDING STATISTICS | |
|---------------------|---|
| CODES: | 2009 INTERNATIONAL BUILDING CODE 2008 ILLINOIS PLUMBING CODE 2009 INTERNATIONAL MECHANICAL CODE 2011 NATIONAL ELECTRICAL CODE 2009 INTERNATIONAL FIRE PREVENTION CODE 1997 ILLINOIS ACCESSIBILITY CODE |
| BUILDING USE GROUP: | B, BUSINESS |
| CONSTRUCTION TYPE: | 5B |
| FIRE SPRINKLER: | NO |
| BUILDING AREA: | 432 S.F. |
| ROOF LOAD: | 30 psf LL (SNOW) 10 psf LL (MIN.) STORAGE 20 psf LL 10 psf DL |
| WIND LOAD: | 90 mph / EXPOSURE D |



SITE ACCESSIBILITY NOTE

ENTRANCES ARE ACCESSIBLE. APPROACH TO BUILDING IS TO BE ACCESSIBLE PER ILLINOIS ACCESSIBILITY CODE. PROVIDE AN ACCESSIBLE APPROACH FROM THE HANDICAP PARKING STALL AS SHOWN ON PLANS.

| DRAWING INDEX | |
|----------------------|---|
| T1.1 | TITLE SHEET, BUILDING STATISTICS, SYMBOLS, DRAWING INDEX AND STATEMENT OF COMPLIANCE, DOOR AND ROOM FINISH SCHEDULE & DETAILS |
| ARCHITECTURAL | |
| C1.1 | ARCHITECTURAL SITE PLAN W/ TOILET ENCLOSURE PLAN & DETAILS |
| A1.1 | EXTERIOR ELEVATIONS |
| A2.1 | FLOOR PLAN, AND EXTERIOR ELEVATIONS |
| STRUCTURAL | |
| S1.1 | FOUNDATION PLAN & DETAILS |
| MECHANICAL | |
| M3.1 | FOUNDATION PLAN & DETAILS |
| ELECTRICAL | |
| E2.1 | FOUNDATION PLAN & DETAILS |

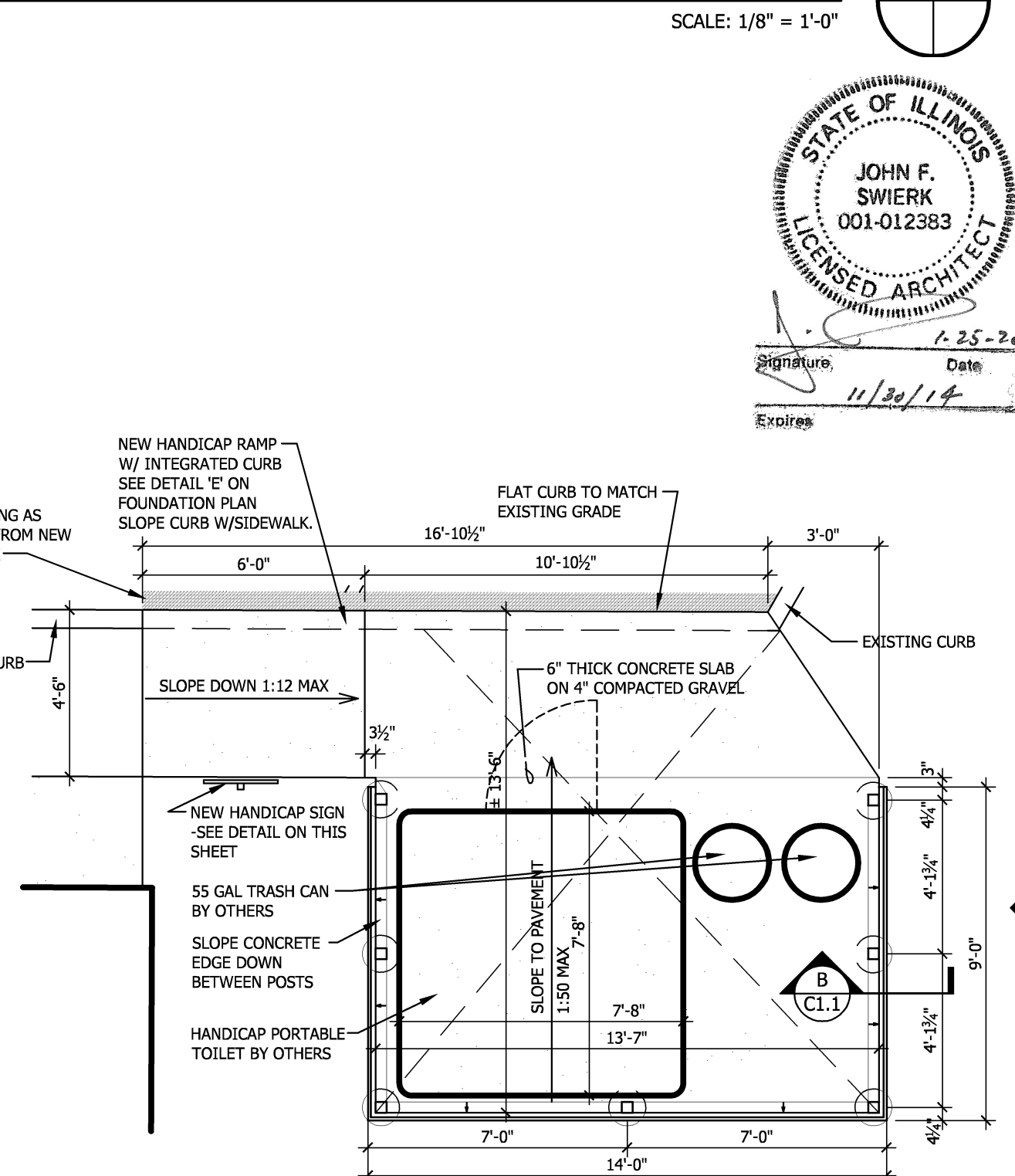
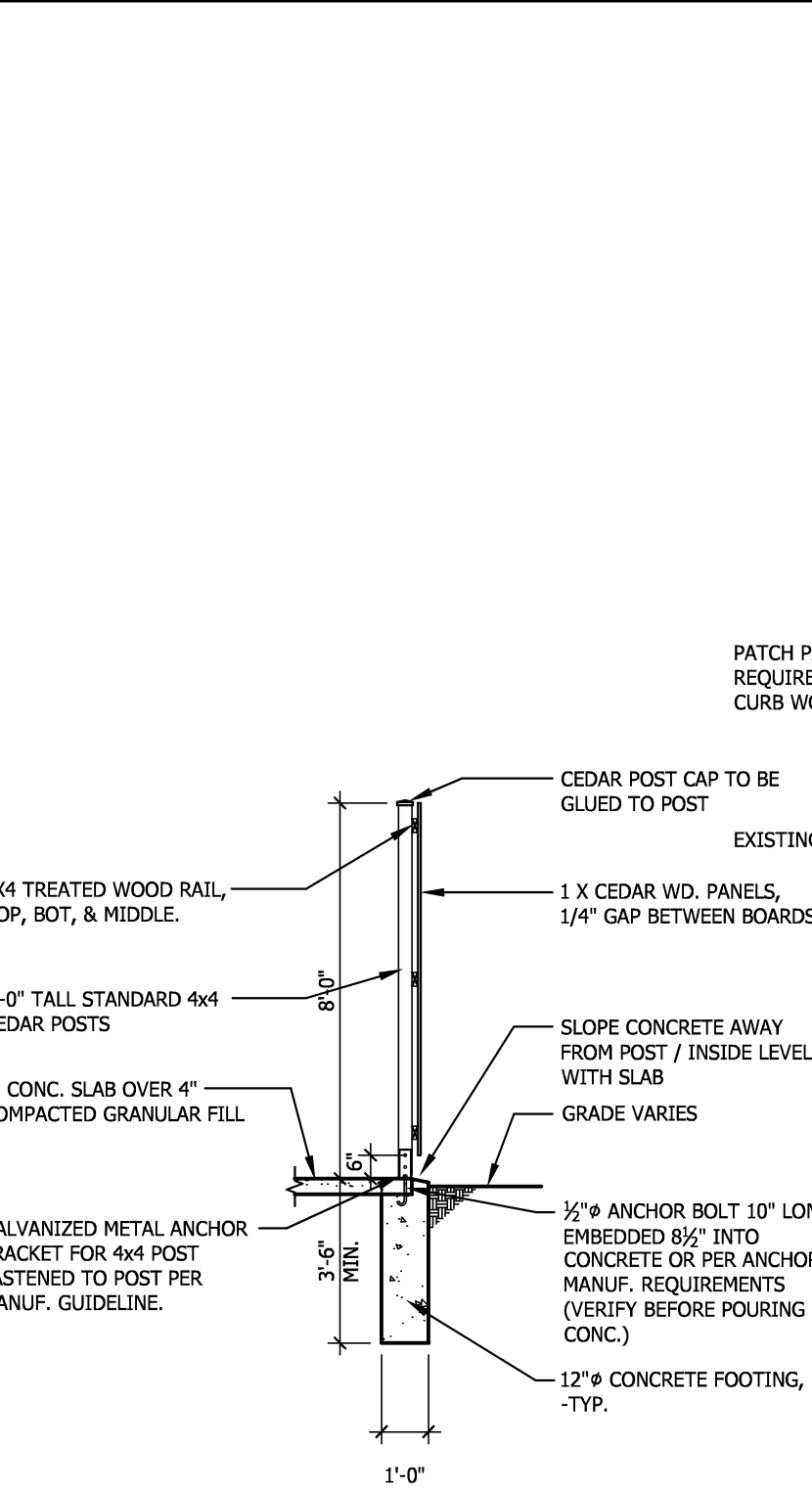
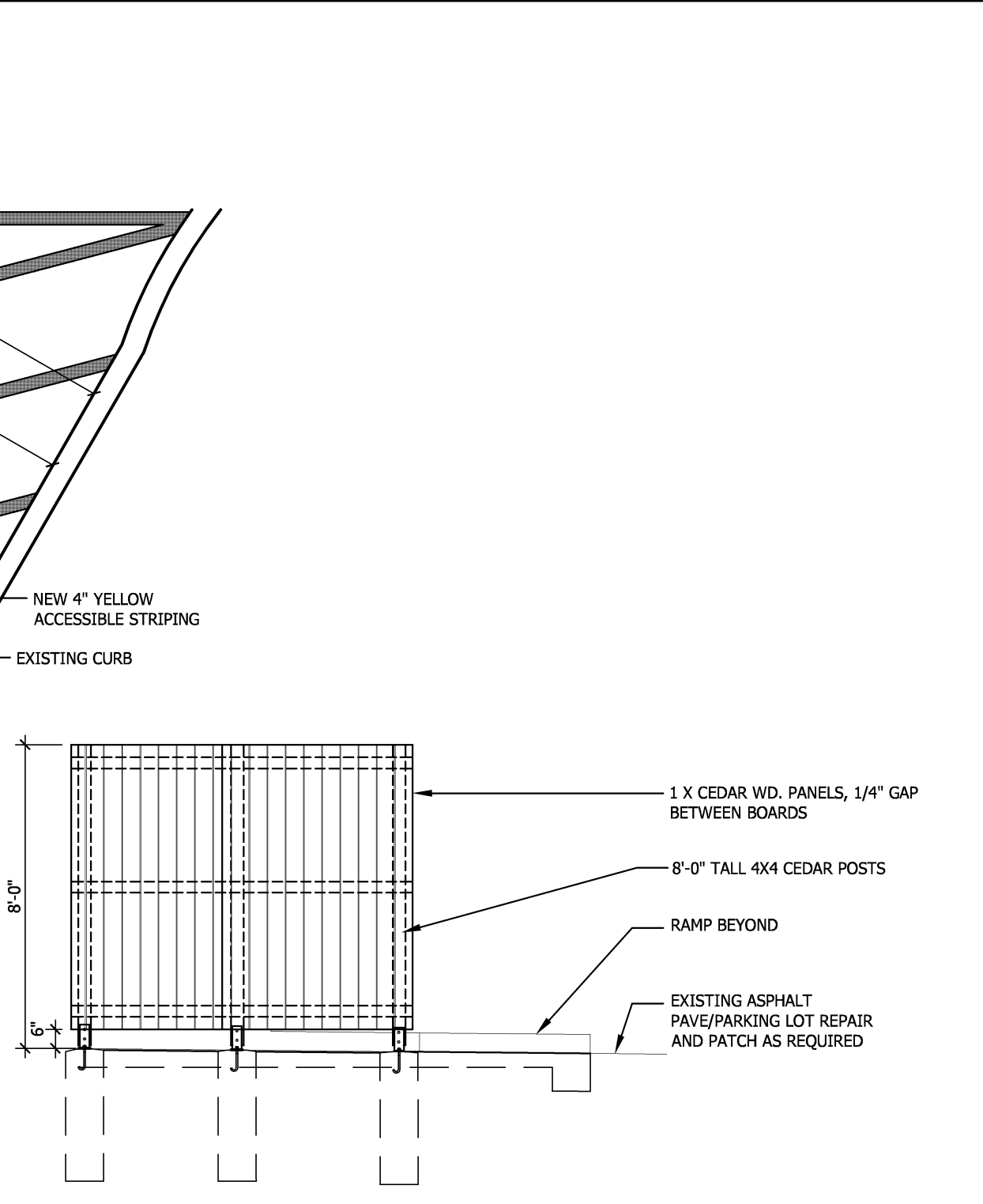
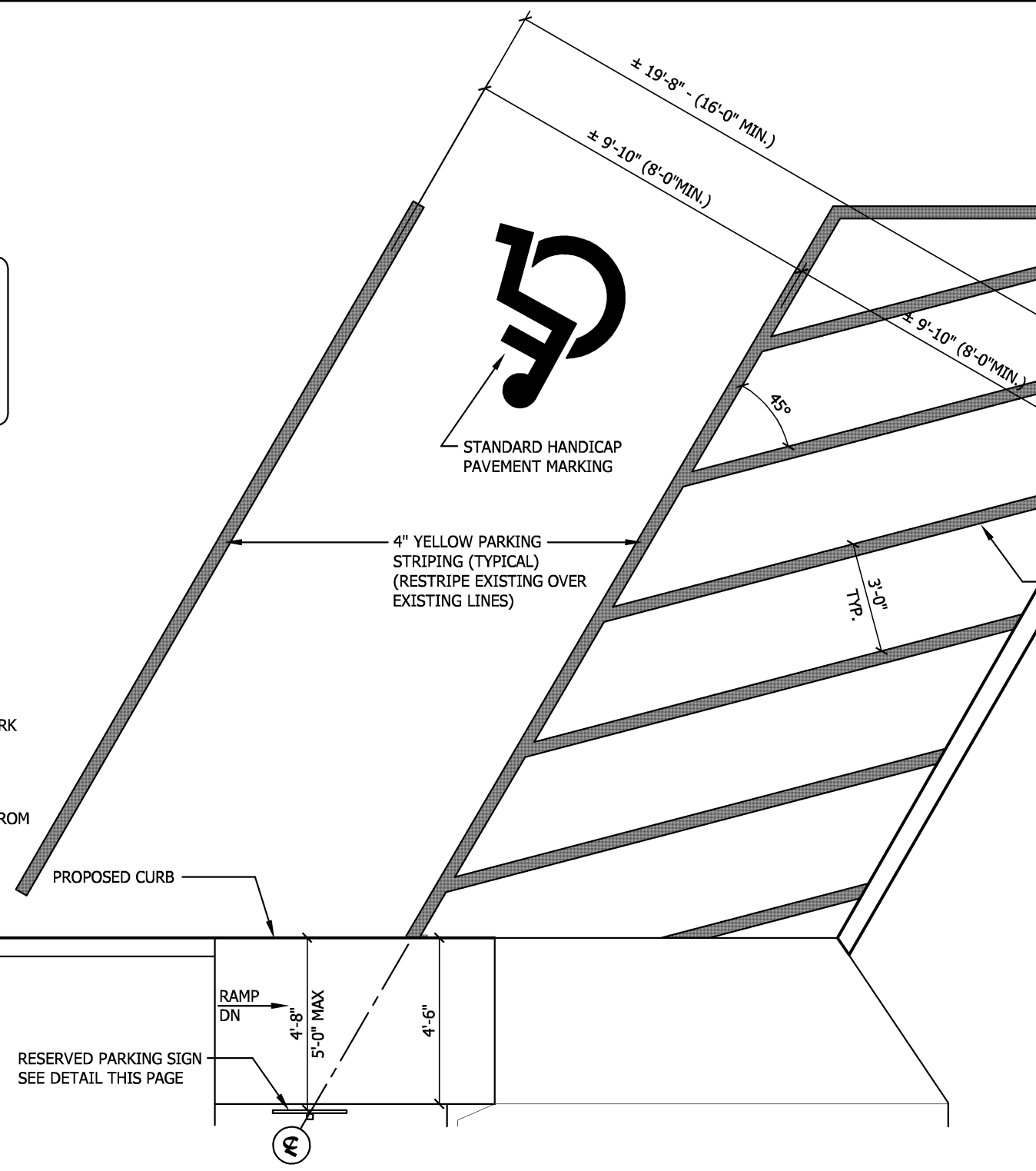
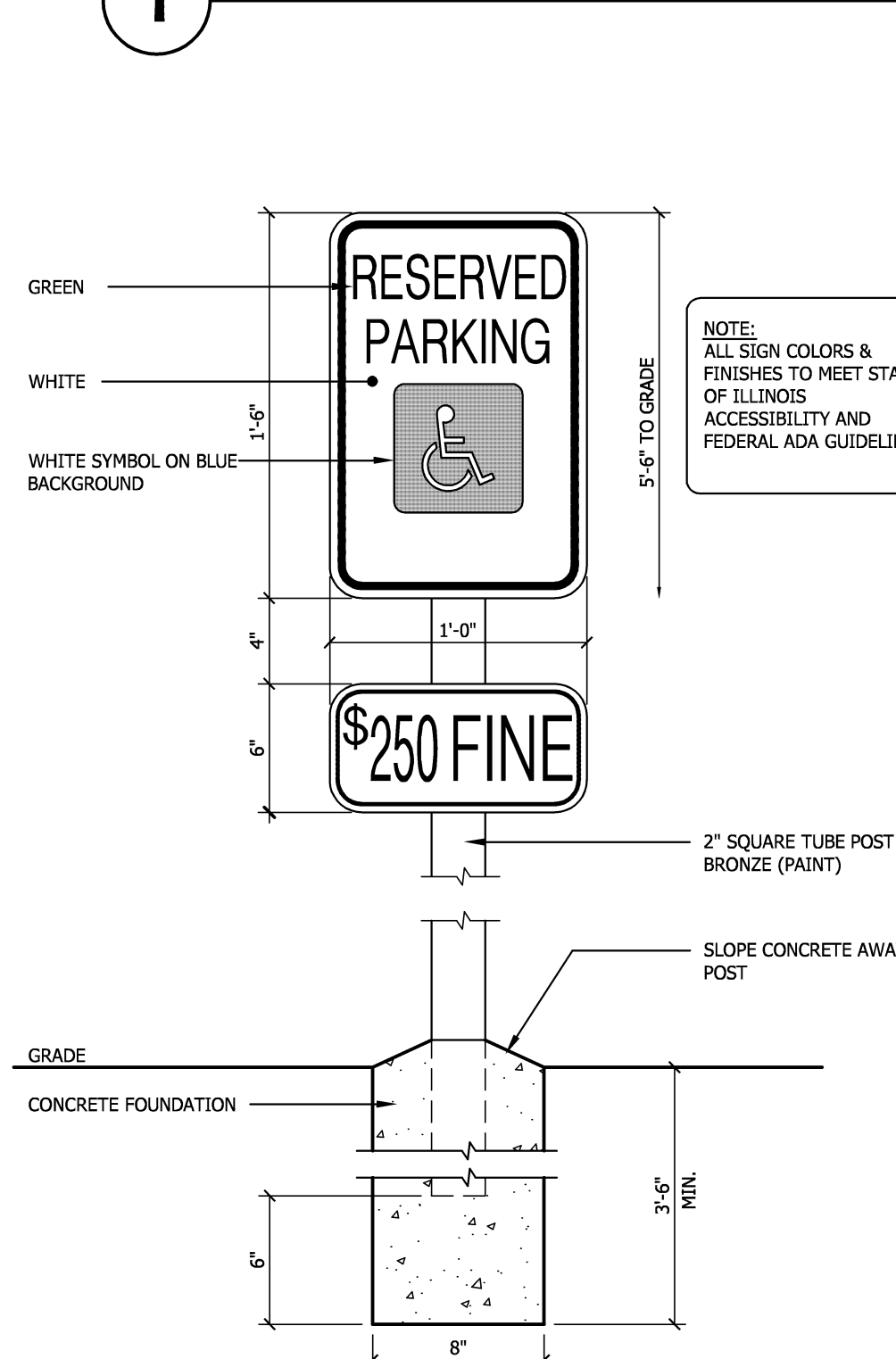
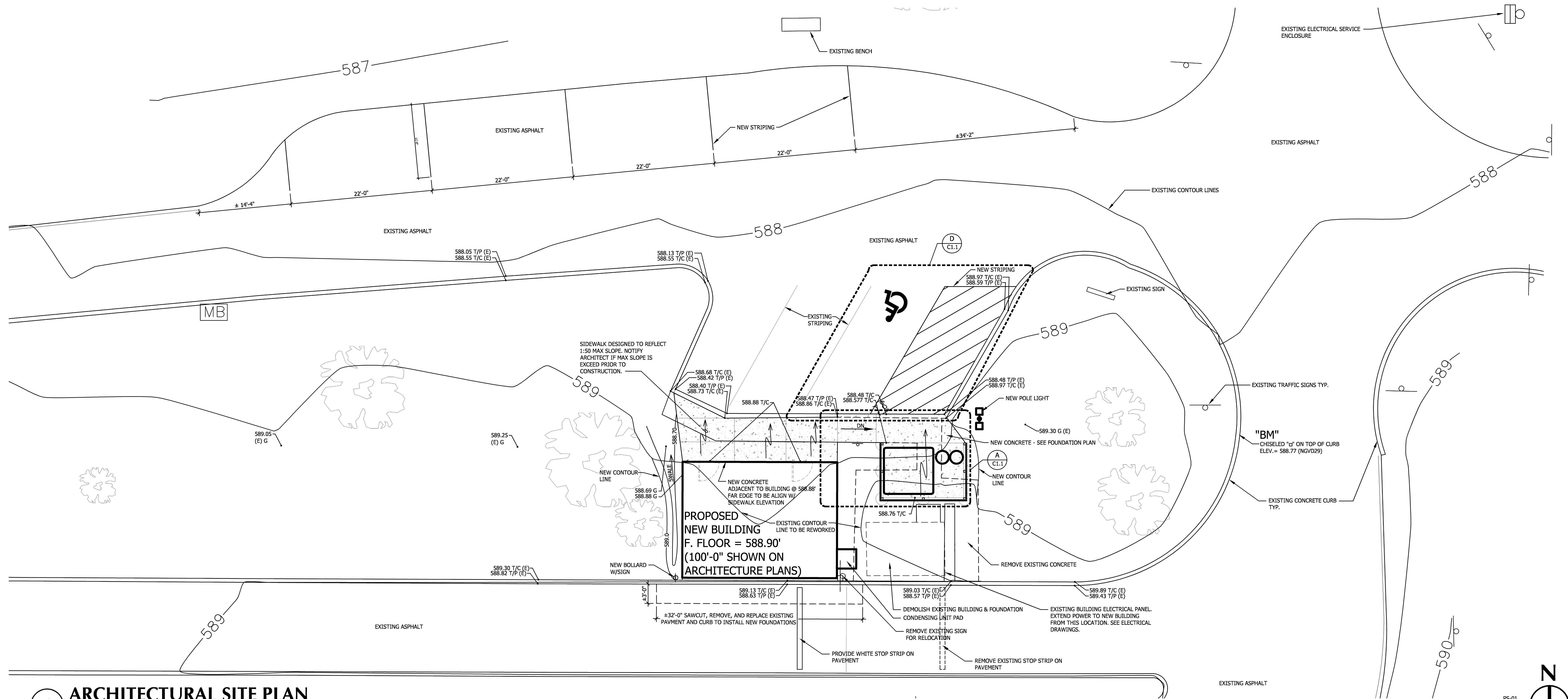
COMPLIANCE STATEMENT

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT [410 ILCS 25] AND THE ILLINOIS ACCESSIBILITY CODE (71 ILL. ADM. CODE 400), EFFECTIVE APRIL 24, 1997.

SIGNED: _____
ARCHITECT/ENGINEER

ILLINOIS REGISTRATION NO.: _____
DATE: _____

ILLINOIS PROFESSIONAL DESIGN FIRM REGISTRATION NO. 184-002823



CAMPGROUND PERMIT BOOTH
 DNR FILE # 2-12-012
 ILLINOIS BEACH STATE PARK
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 ZION, ILLINOIS

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STATE OF ILLINOIS
 JOHN F. SWIERK
 001-012383
 LICENSED ARCHITECT

11/30/14

DDCA architects
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PROJECT NO. 112139
 PROJECT MGR. ARCHITECTURAL SITE PLAN

C1.1

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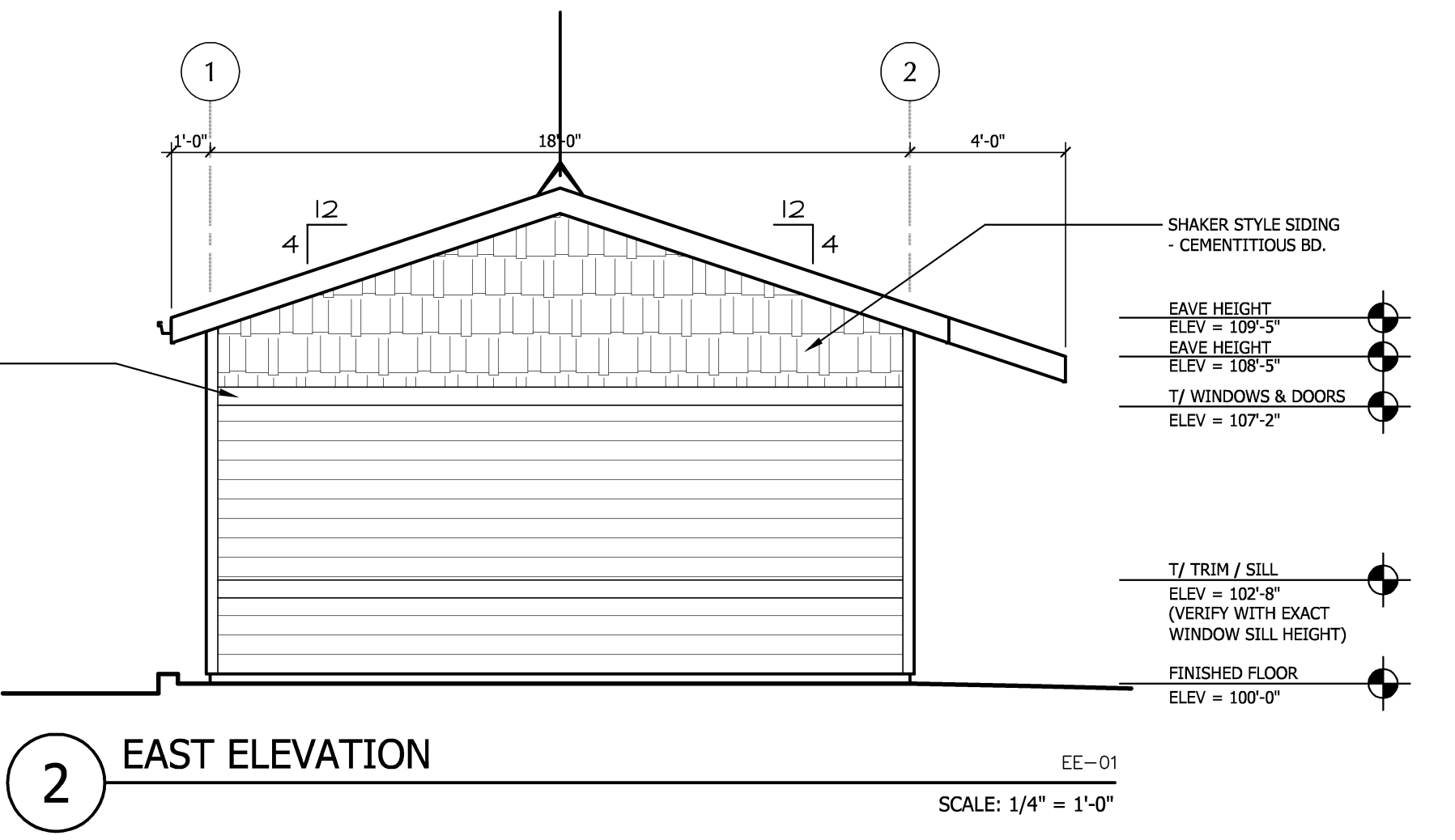
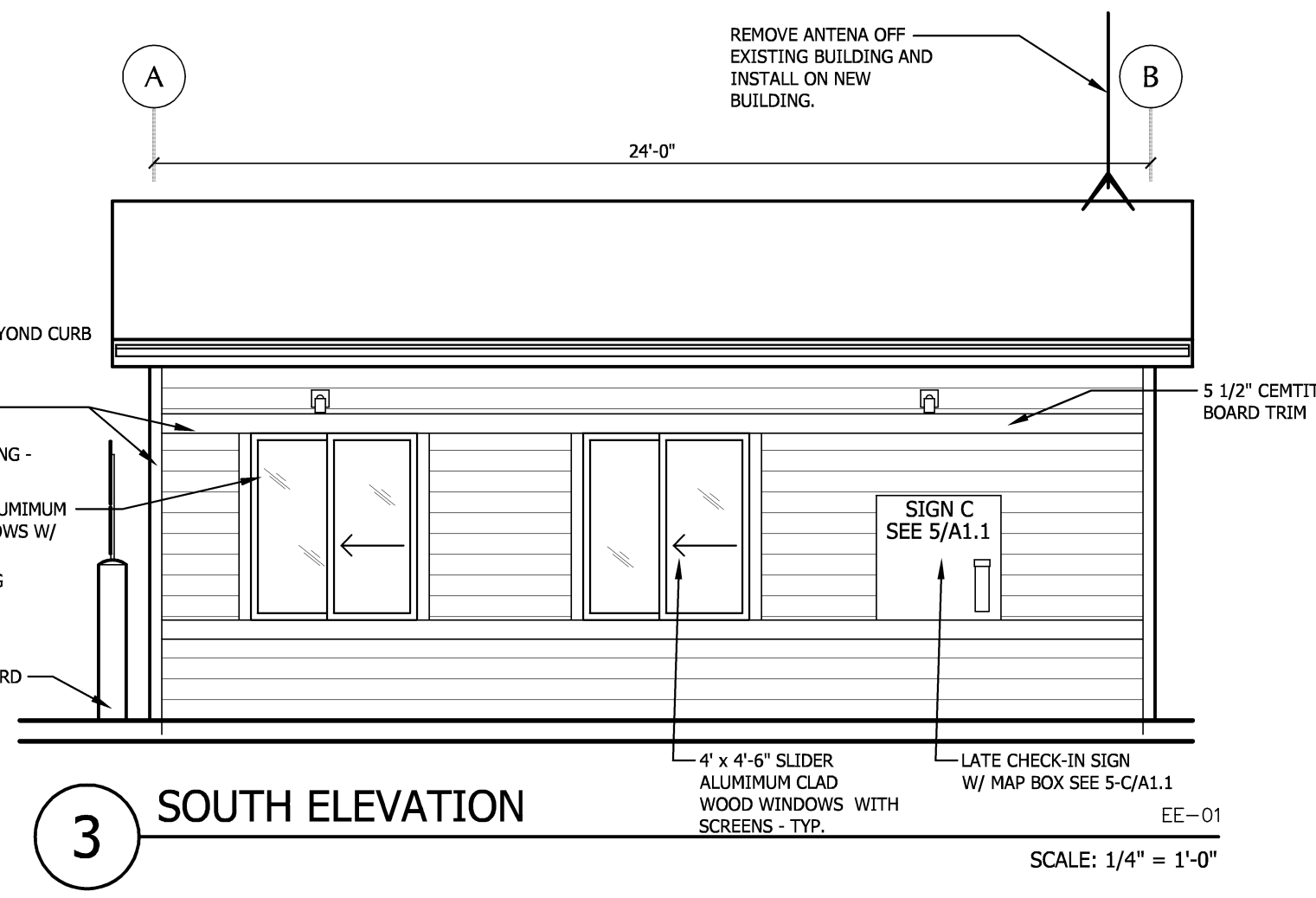
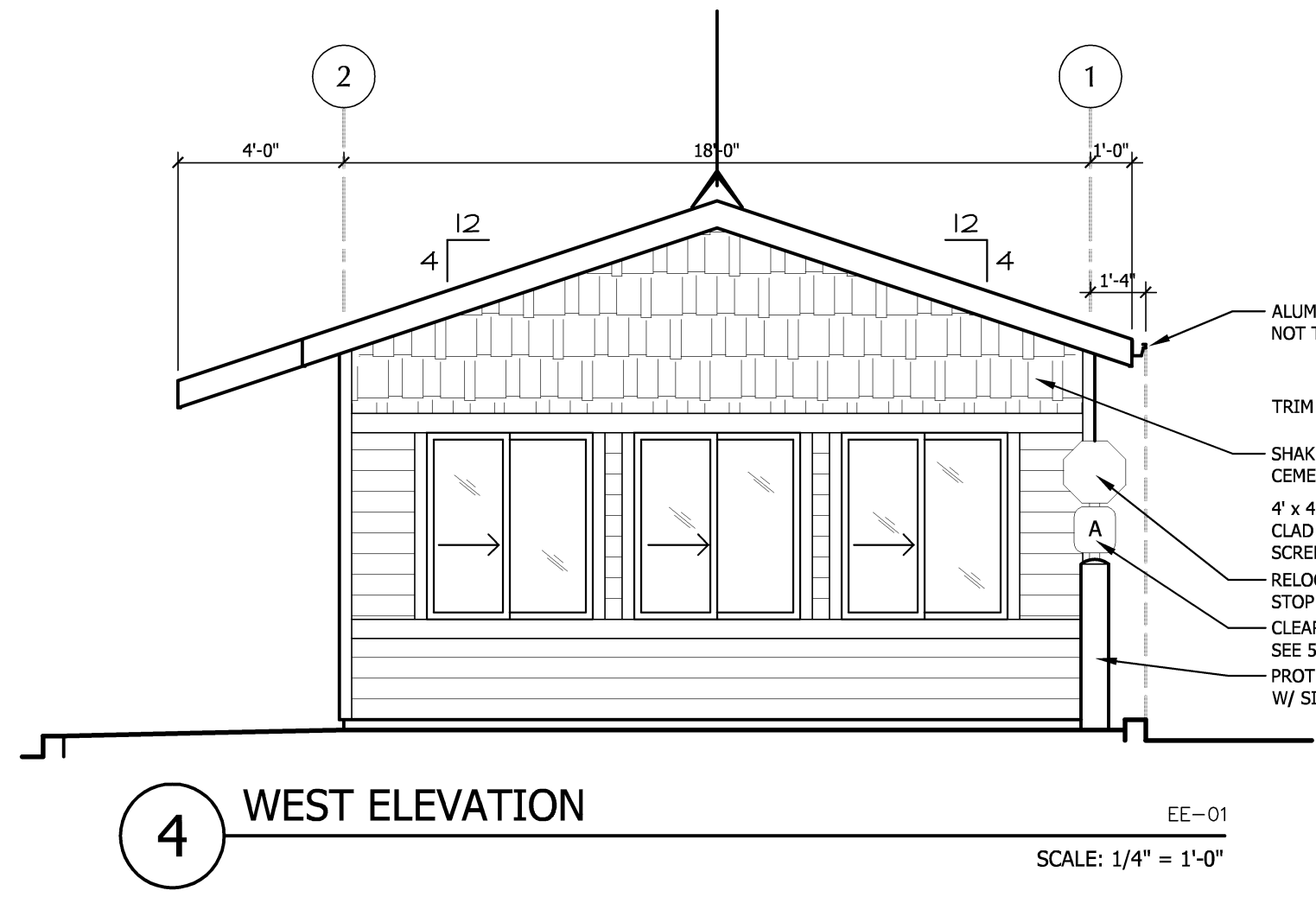
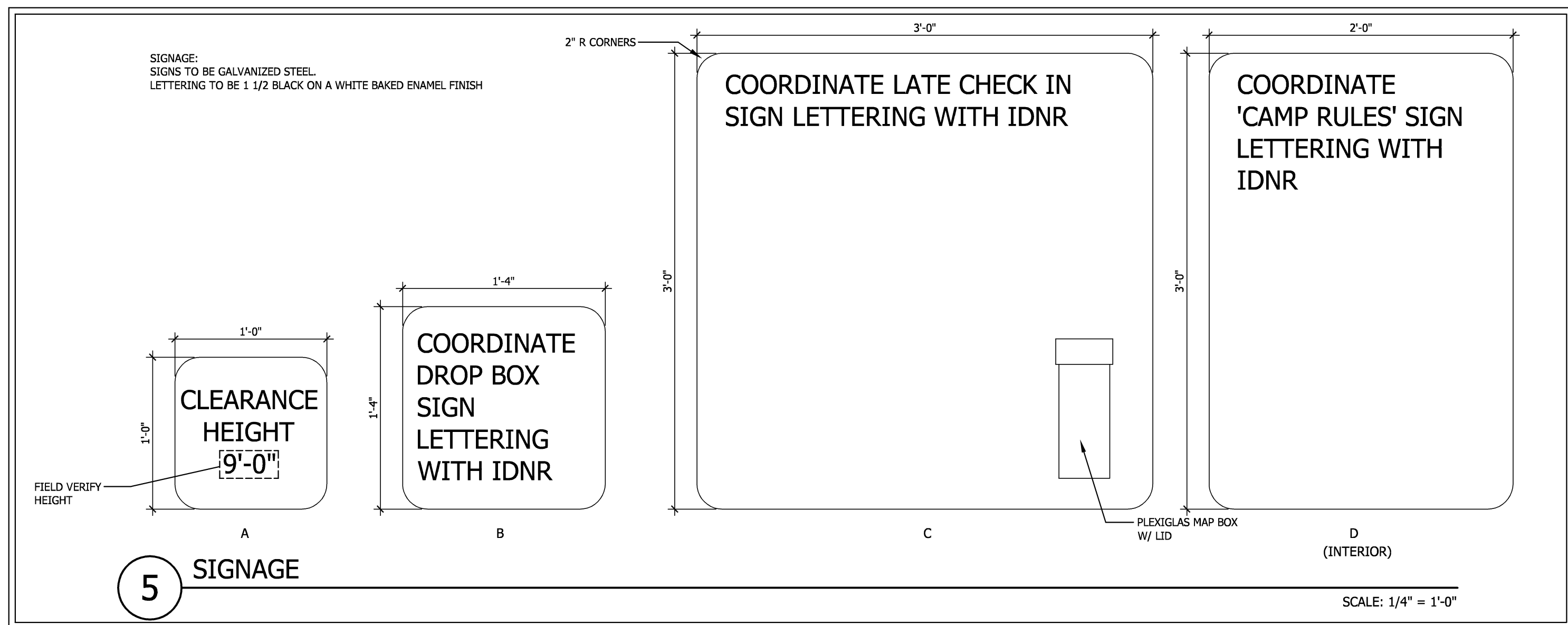
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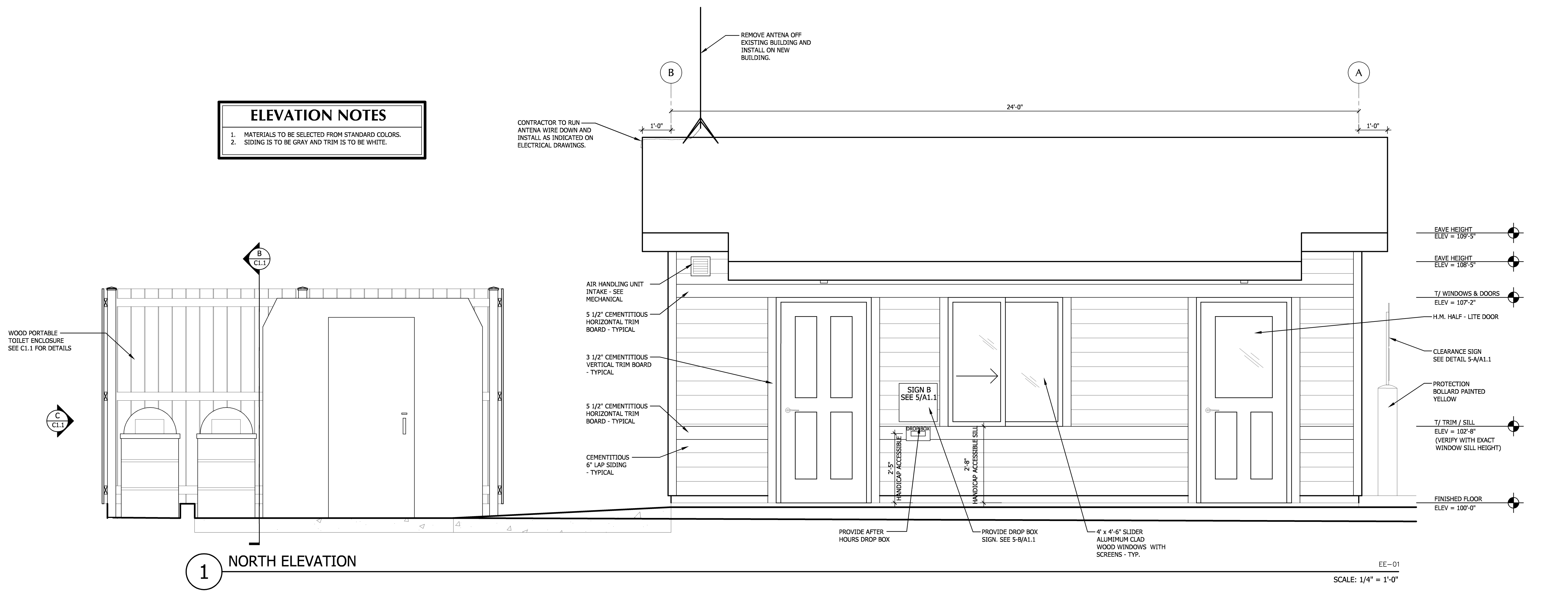
EXTERIOR ELEVATIONS

A1.1



ELEVATION NOTES

- MATERIALS TO BE SELECTED FROM STANDARD COLORS.
- SIDING IS TO BE GRAY AND TRIM IS TO BE WHITE.



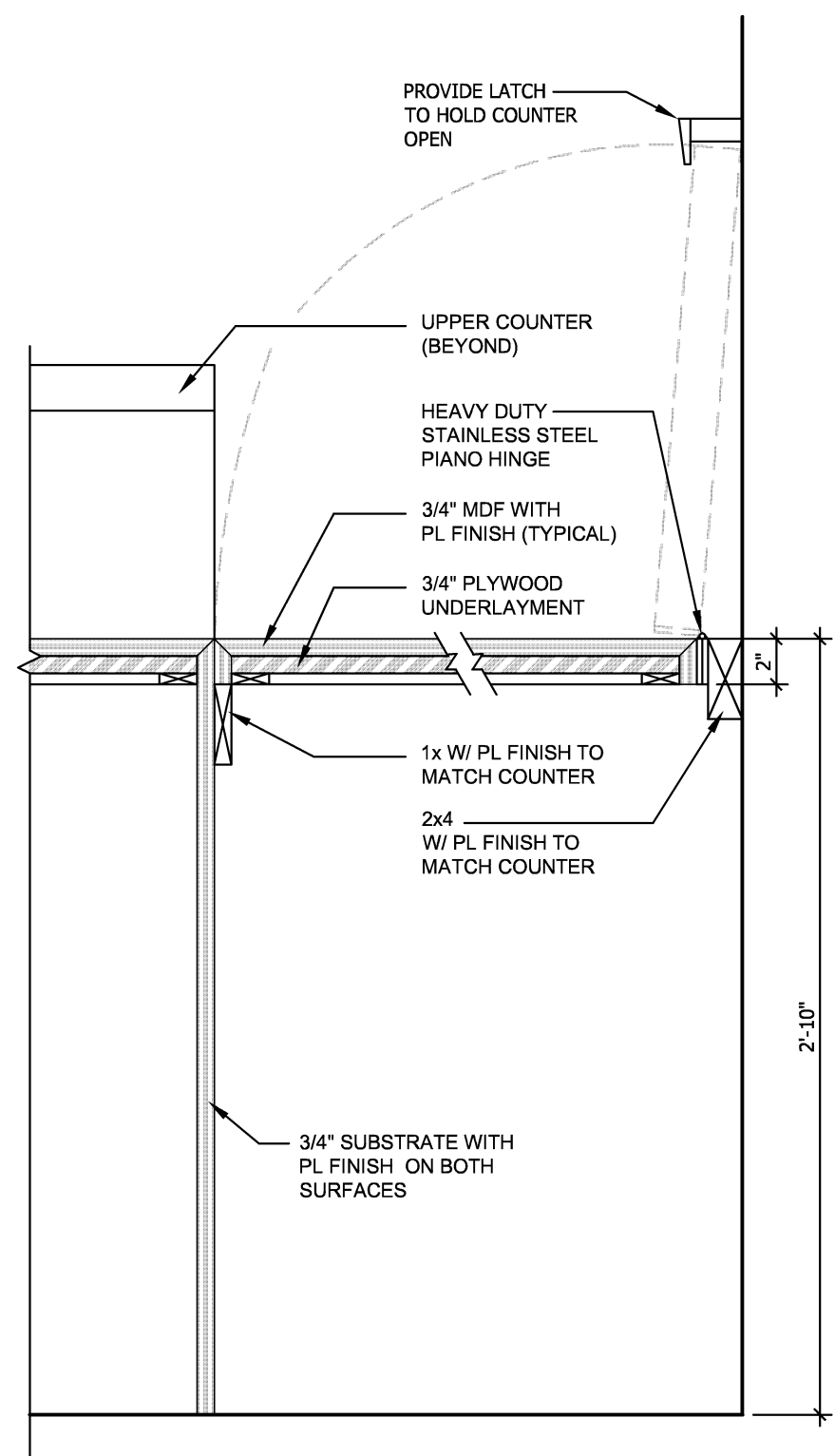
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Date: 11/30/14
Expires:

WOOD PORTABLE TOILET ENCLOSURE SEE C1.1 FOR DETAILS

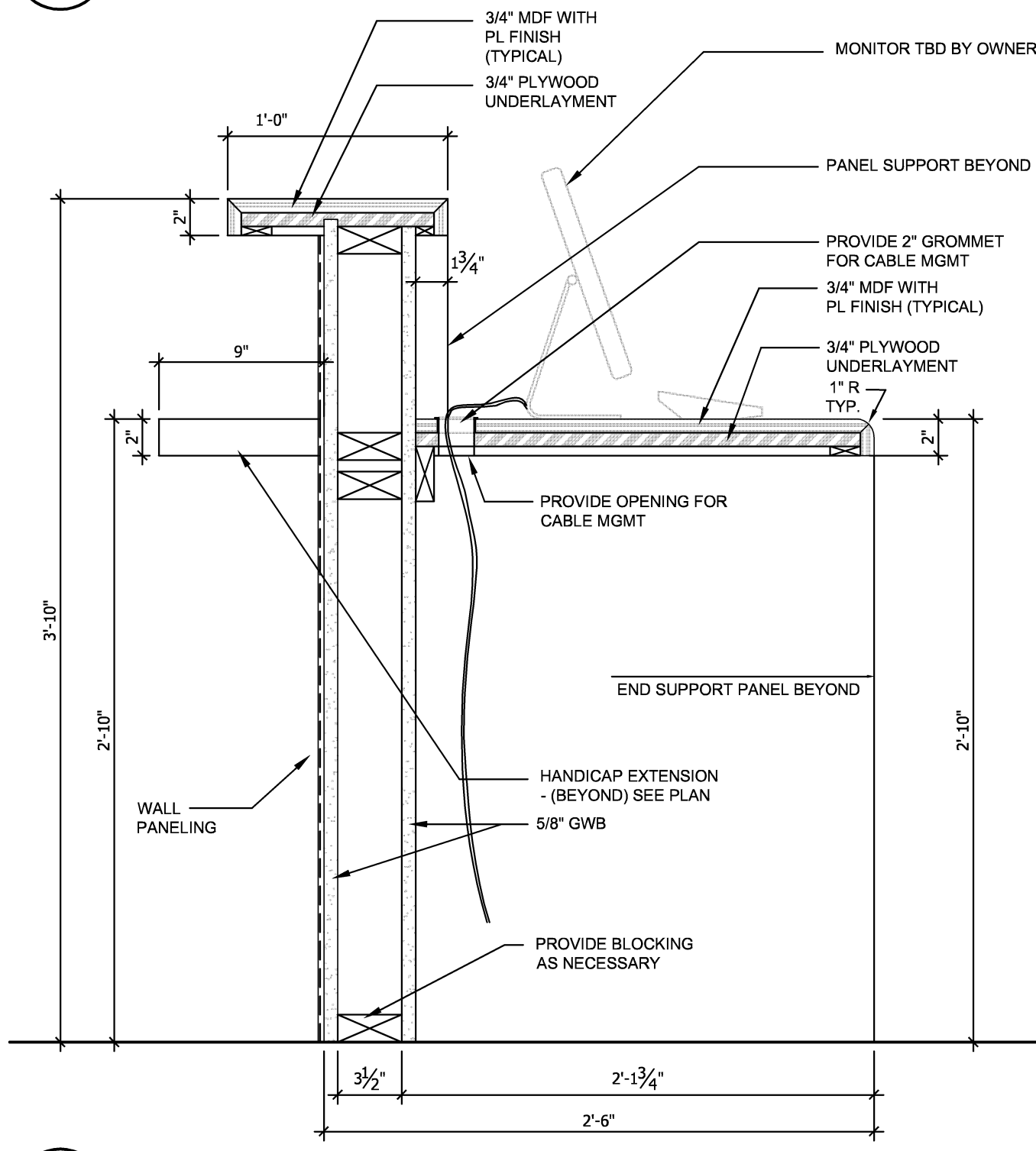
C C1.1

1 NORTH ELEVATION

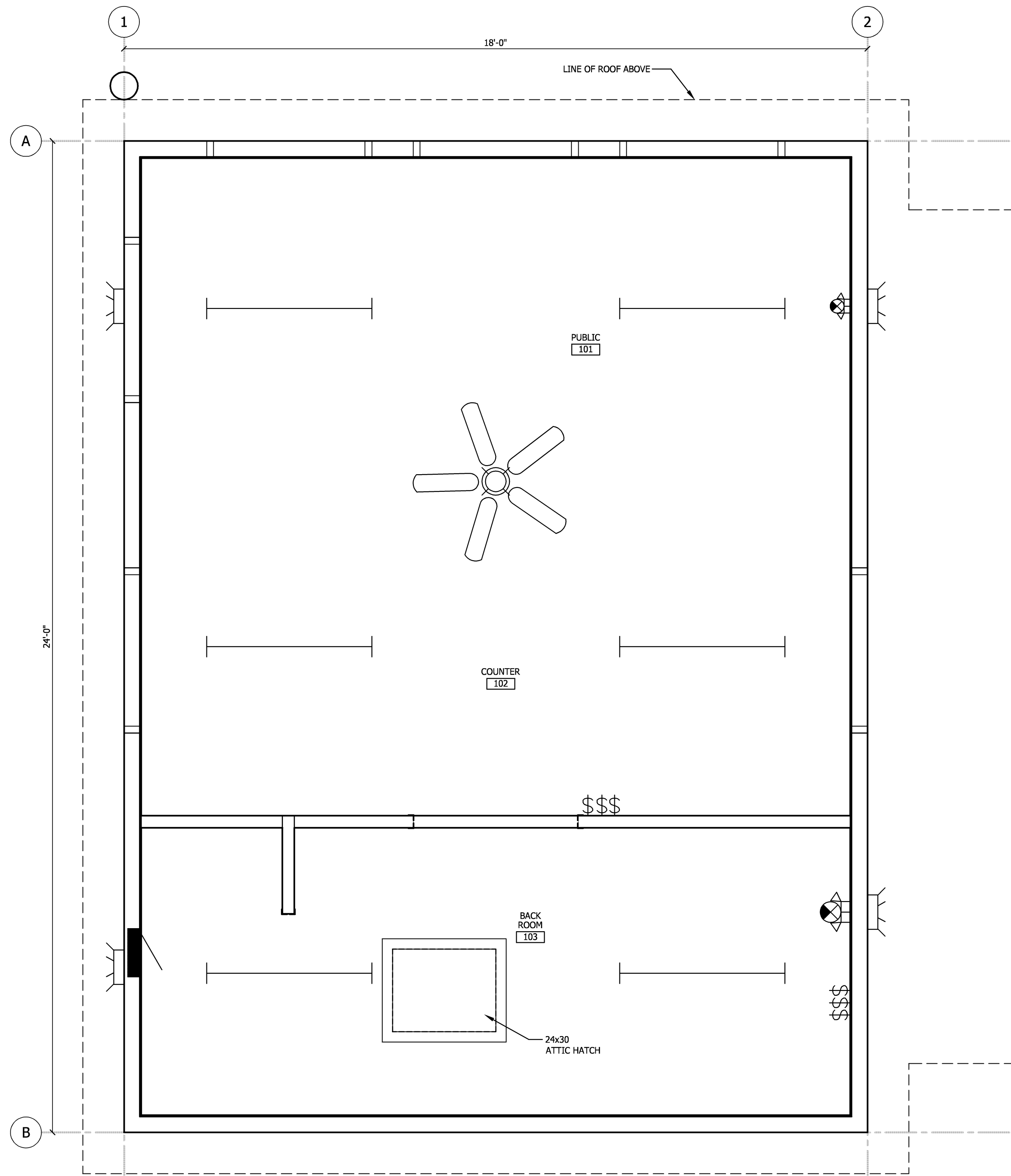
EE-01
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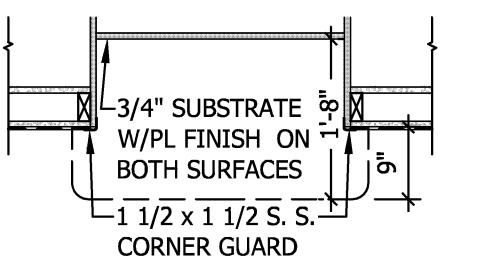
4 COUNTER SECTION @ OPENING
SCALE: 1 1/2" = 1'-0"



3 COUNTER SECTION
SCALE: 1 1/2" = 1'-0"

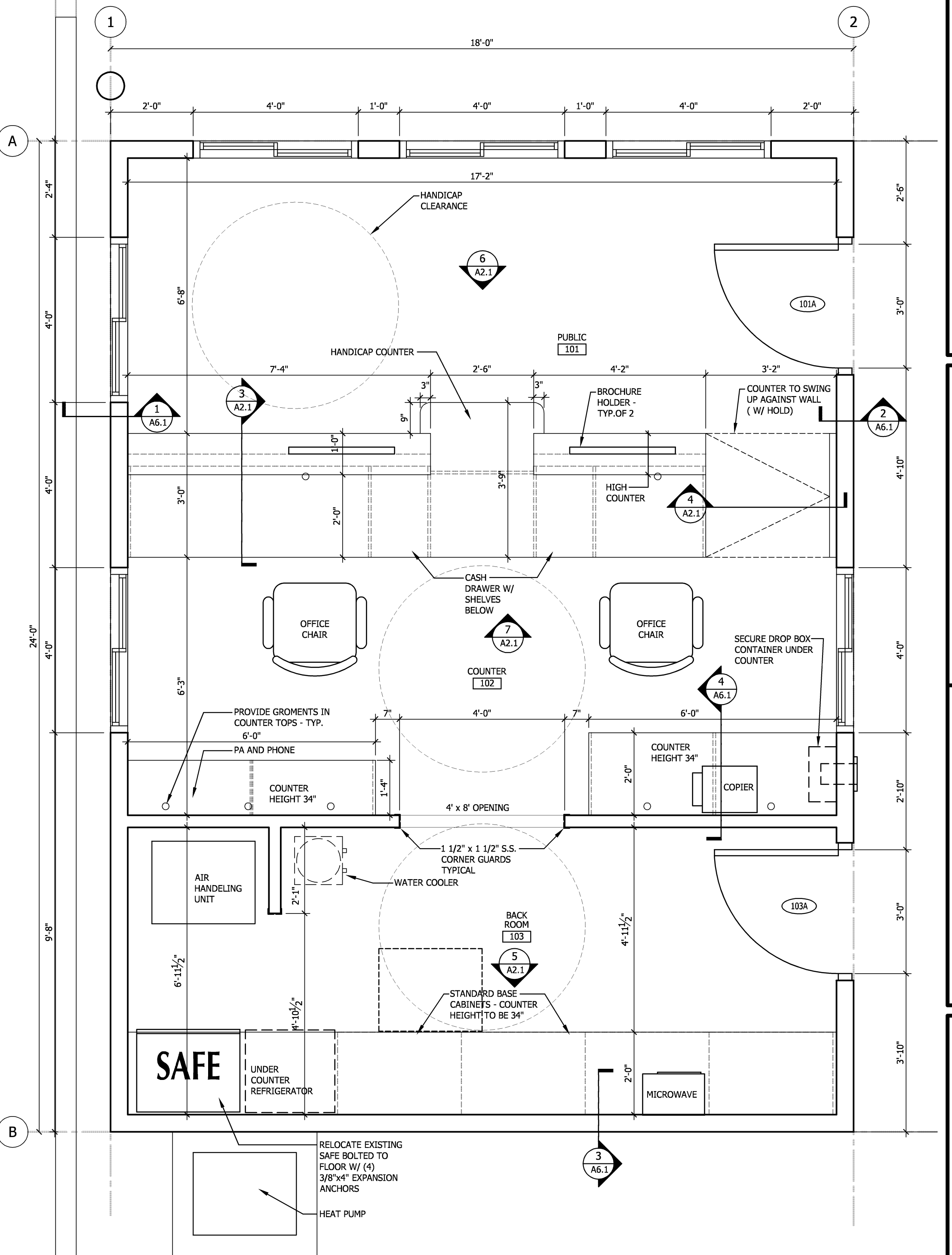


2 REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"



8 COUNTER PLAN DETAIL
SCALE: 1/2" = 1'-0"

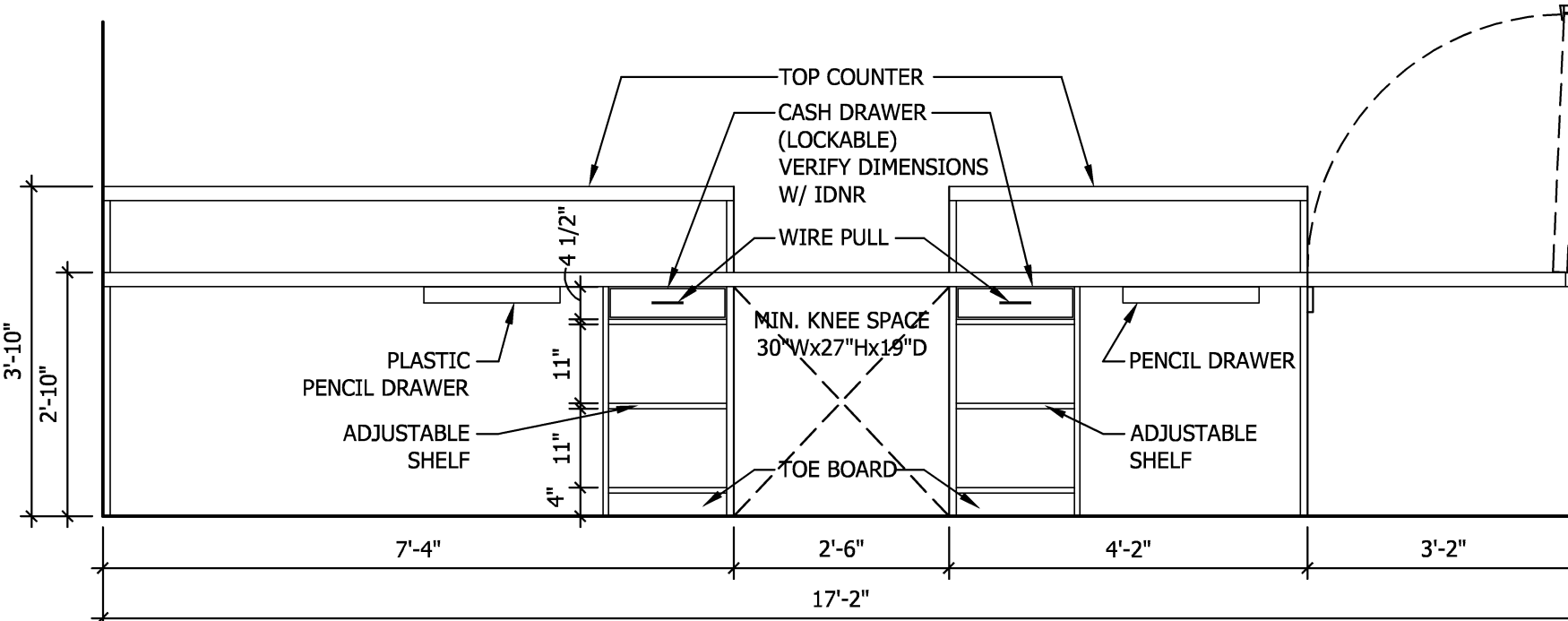
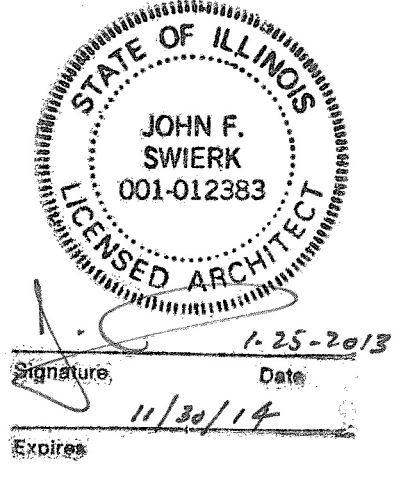
PLAN NOTES
1. COUNTER TOPS ARE TO BE 34" FOR HANDICAP ACCESSIBILITY.



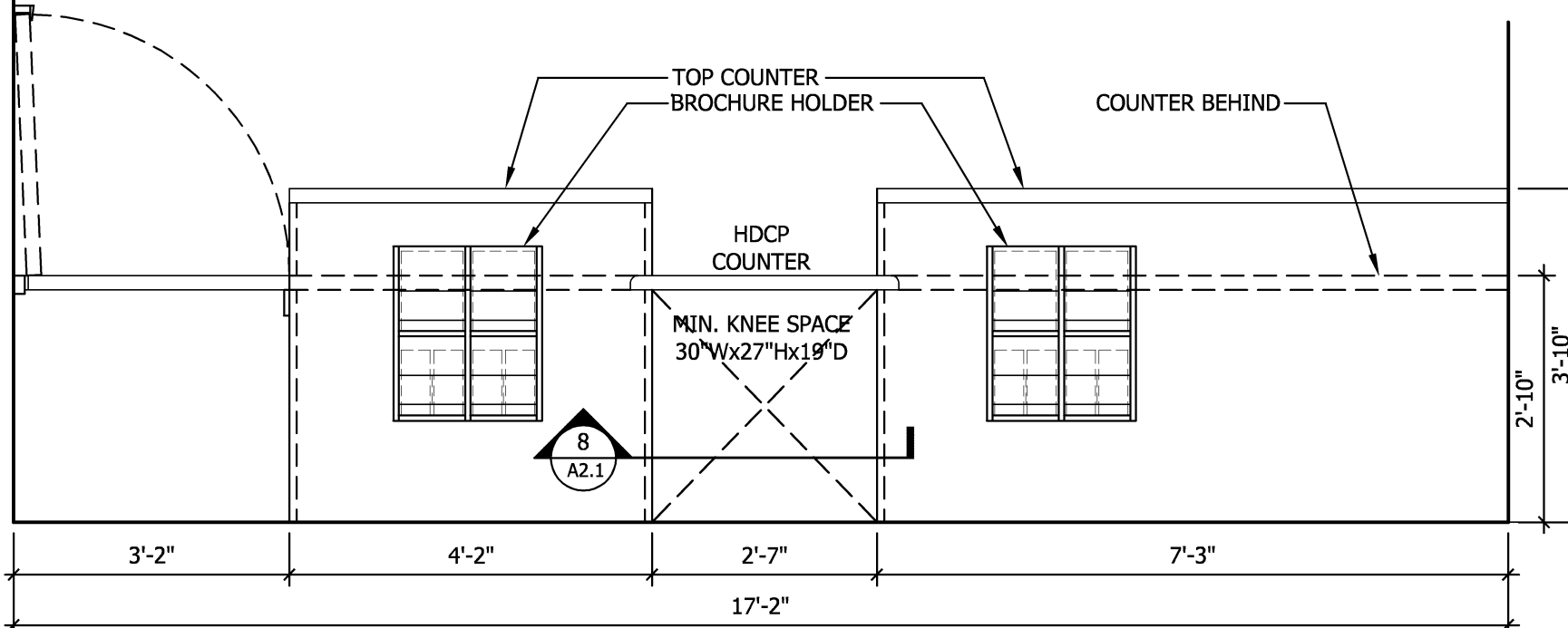
1 FLOOR PLAN
SCALE: 1/2" = 1'-0"

EQUIPMENT SCHEDULE
THE FOLLOWING ITEMS ARE TO BE PURCHASED AND INSTALLED AS PART OF THE CONTRACT. ANY PARTS OR MANUALS SHALL BE TURNED OVER TO IDNR.

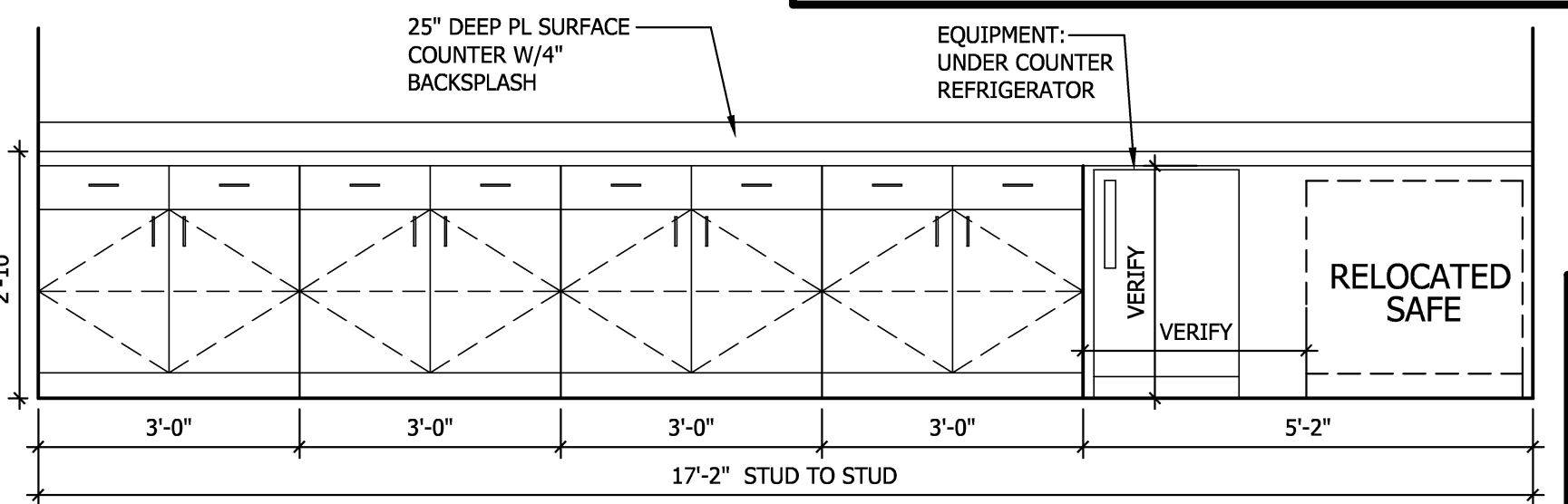
| ITEM | QUANTITY | DESCRIPTION |
|-----------------|----------|---|
| BROCHURE HOLDER | 2 | WOOD/CLEAR POLYCARBONATE BROCHURE HOLDER W/ (2) 8 1/2 x 11 HOLDERS & (4) 4 x 9 HOLDERS. |
| | | |
| | | |
| | | |



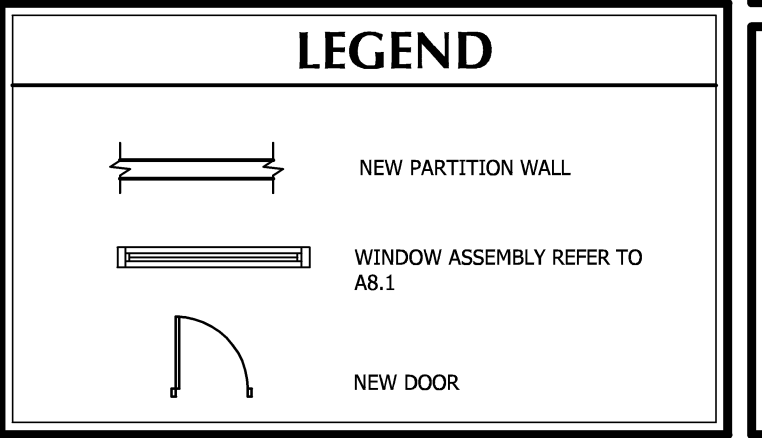
7 BACK COUNTER ELEVATIONS
SCALE: 1/2" = 1'-0"



6 SERVICE COUNTER ELEVATIONS
SCALE: 1/2" = 1'-0"



5 BACK COUNTER ELEVATIONS
SCALE: 1/2" = 1'-0"



CAMPGROUND PERMIT BOOTH
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ILLINOIS BEACH STATE PARK
38303 N. ILLINOIS BEACH STATE PARK
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DDCA architects
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PROJECT NO. 112139
PROJECT MGR. DRH
FLOOR PLAN & REFLECTED CEILING PLAN
A2.1

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WALL SECTION LEGEND

ICE AND WATER SHIELD:
 PROVIDE FROM EAVE TO 24 INCHES INSIDE EXTERIOR STUD WALL.

CEILING CONSTRUCTION:
 INSTALL 48" LONG BAFFLES BETWEEN TRUSSES TO MAINTAIN 1" MINIMUM AIRSPACE BELOW ROOF SHEATHING; R-38 INSULATION CONSISTING OF #12" COMBINED BLOW-IN AND BATT OVER 6MIL VAPOR BARRIER AND 5/8" DRYWALL.

EAVE CONSTRUCTION:
 ALUMINUM GUTTER & DOWNSPOUTS, 1x8 CEDAR PASCIA ON 2x8 PASCIA SUB-BOARD, PAINTED CEMENTITIOUS SOFFIT - VENTED, VENTS EQUALLY SPACED ALONG SOFFIT PERIMETER TO SATISFY VENT REQUIREMENTS.

FOUNDATION WALL CONSTRUCTION: CONCRETE FOUNDATION WALL W/ (2) #5 BARS TOP & BOTTOM AT CORNERS; #5 BENT BARS @ 18" O.C. VERT. (MIN 24" LEGS)
 DAMPROOFING; CONCRETE FOOTING W/ 2x4 KEY

INTERIOR WALL CONSTRUCTION:
 2x4 WOOD STUD (U.N.O.) @ 16" O.C.

SILL CONSTRUCTION:
 2x6 SILL PLATE - PRESSURE PRESERVATIVE TREATED (WOLMANIZED) SILL SEALER INSULATION; FASTENED W/ 1/2" X 1 1/2" ANCHOR BOLTS @ 6" O.C. TO EXTEND A MINIMUM OF 7" INTO CONCRETE; (2) BOLTS MINIMUM PER PLATE MAXIMUM OF 1'-0" FROM CORNERS FASTEN W/ NUTS & WASHERS - PROVIDE SEALANT ON BOTH SIDES OF SILL PLATE

CAMPGROUND PERMIT BOOTH

DNR FILE # 2-12-012
 ILLINOIS BEACH STATE PARK
 38303 N. ILLINOIS BEACH STATE PARK
 ZION, ILLINOIS

11/7/2012
 12/2/2012
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FINAL REVIEW
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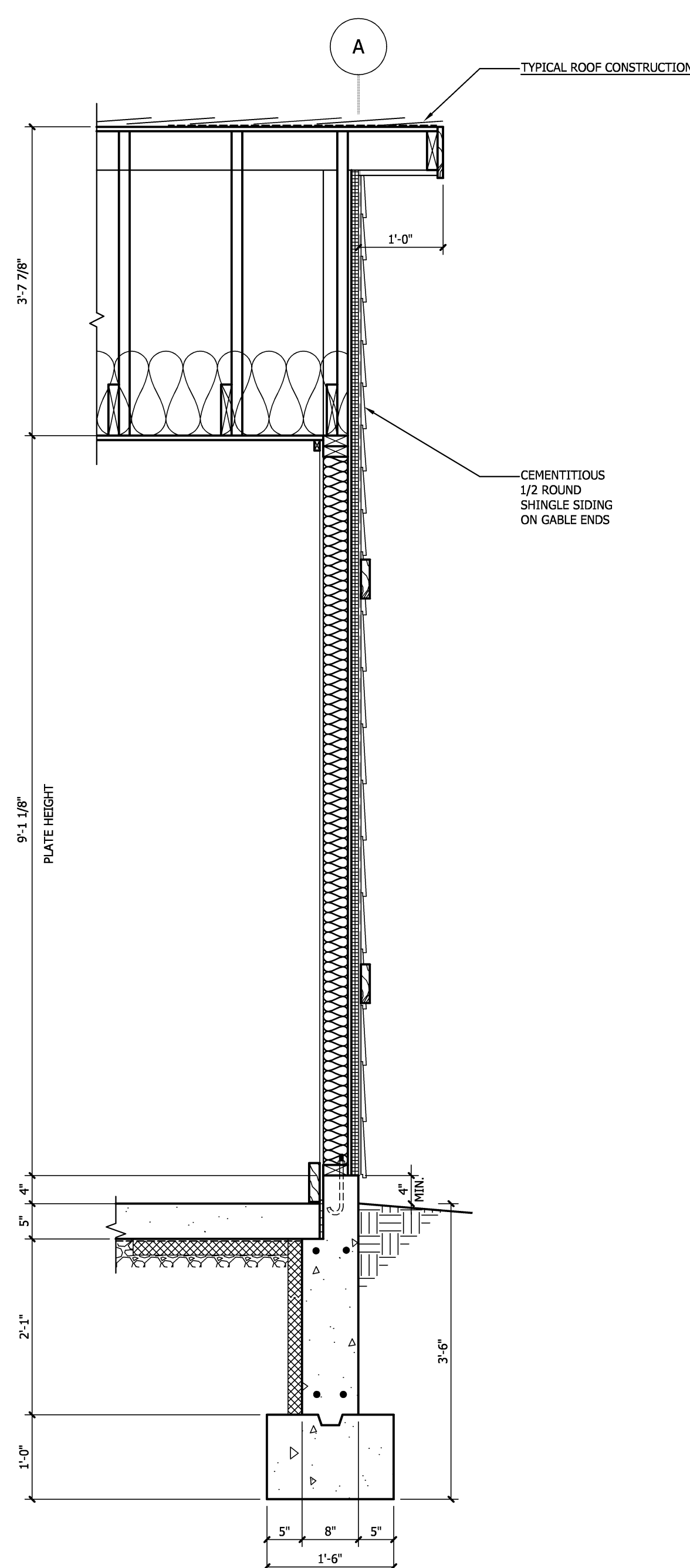
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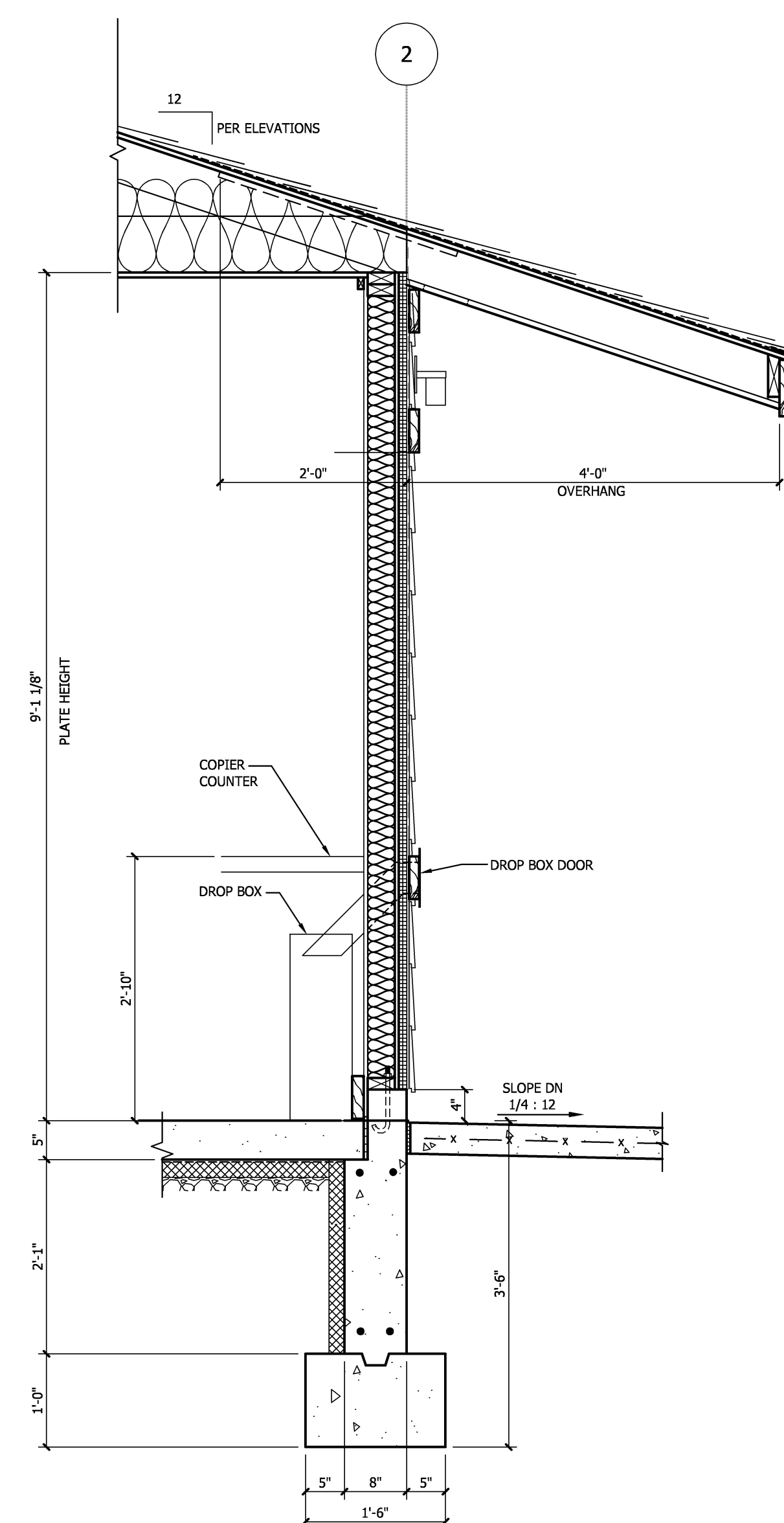
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 PROJECT MGR.
 SECTIONS

A6.1

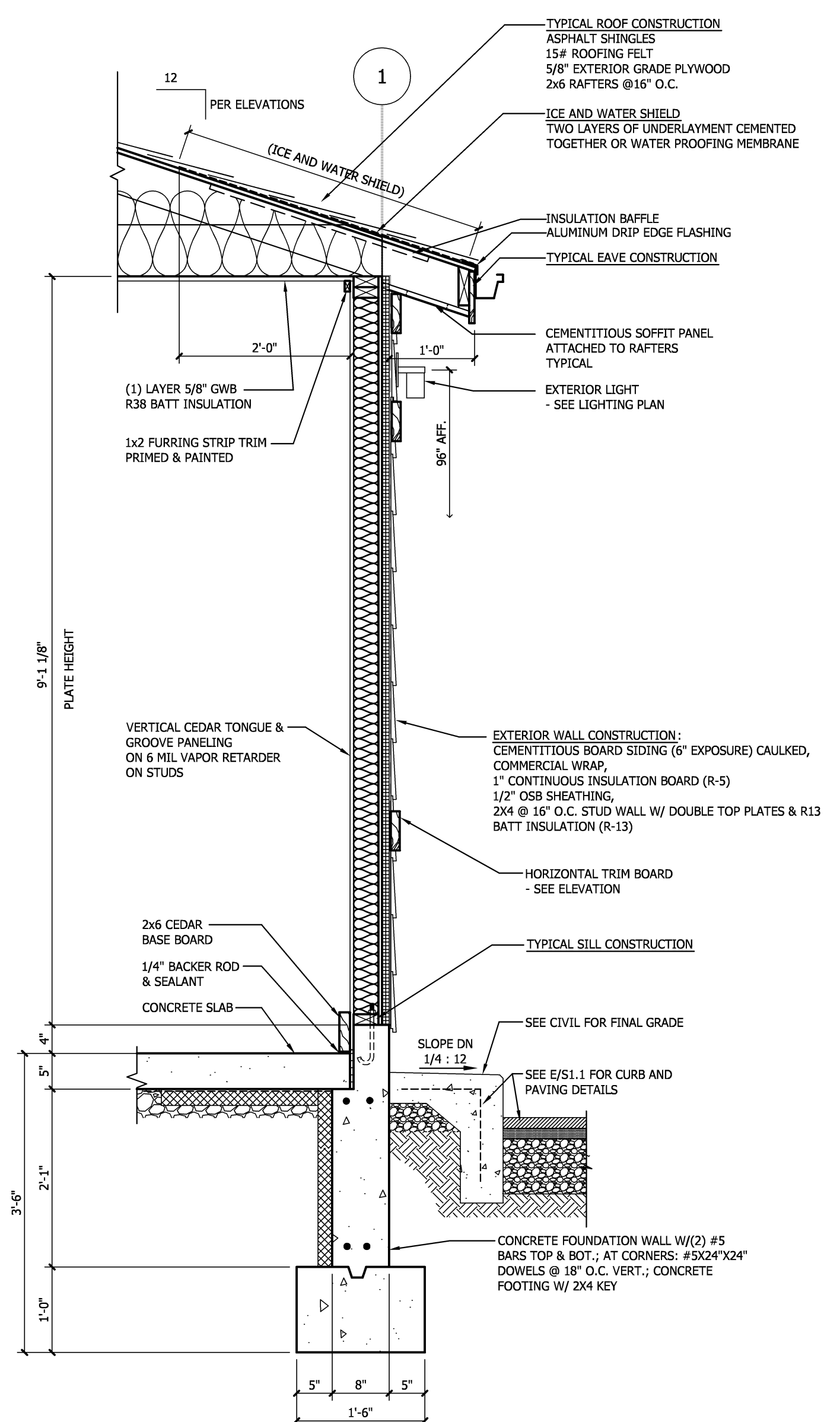
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3 GABLE WALL SECTION PF-01
 SCALE: 3/4" = 1'-0"



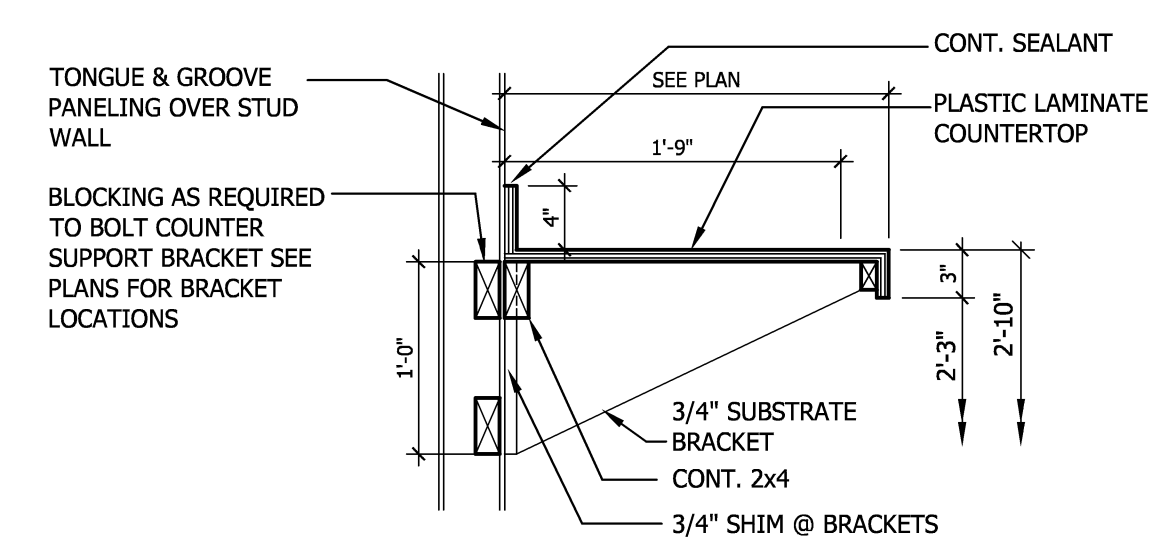
2 OVERHANG WALL SECTION PF-01
 SCALE: 3/4" = 1'-0"



1 TYPICAL WALL SECTION PF-01
 SCALE: 3/4" = 1'-0"

STATE OF ILLINOIS
 JOHN F. SWIERK
 001-012383
 LICENSED ARCHITECT

Signature: [Signature]
 Date: 11/30/14
 Expiry:



4 COUNTER SECTION PF-01
 SCALE: 1" = 1'-0"

| | |
|------------|-----------------------|
| 10/30/2012 | REVIEW |
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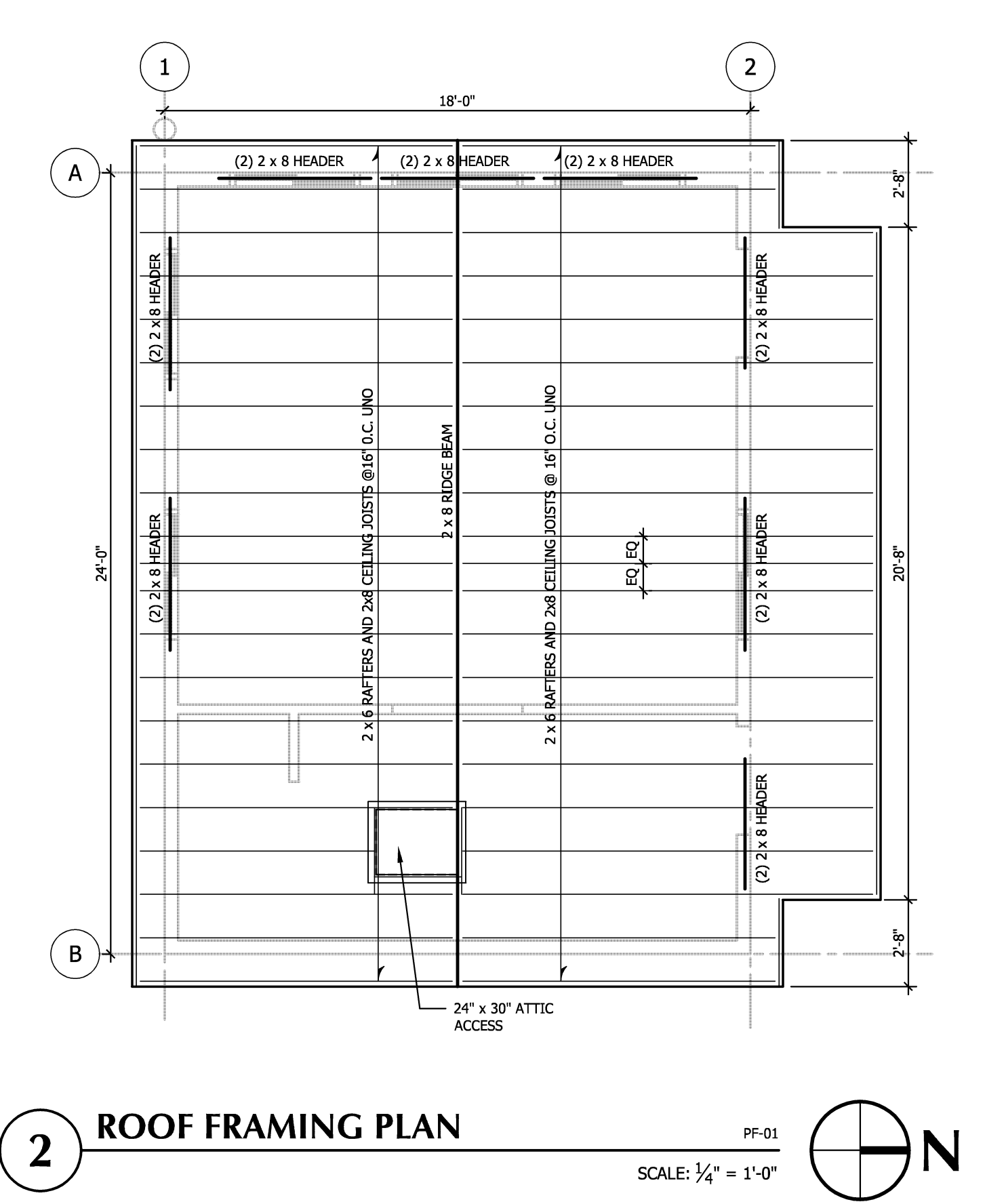
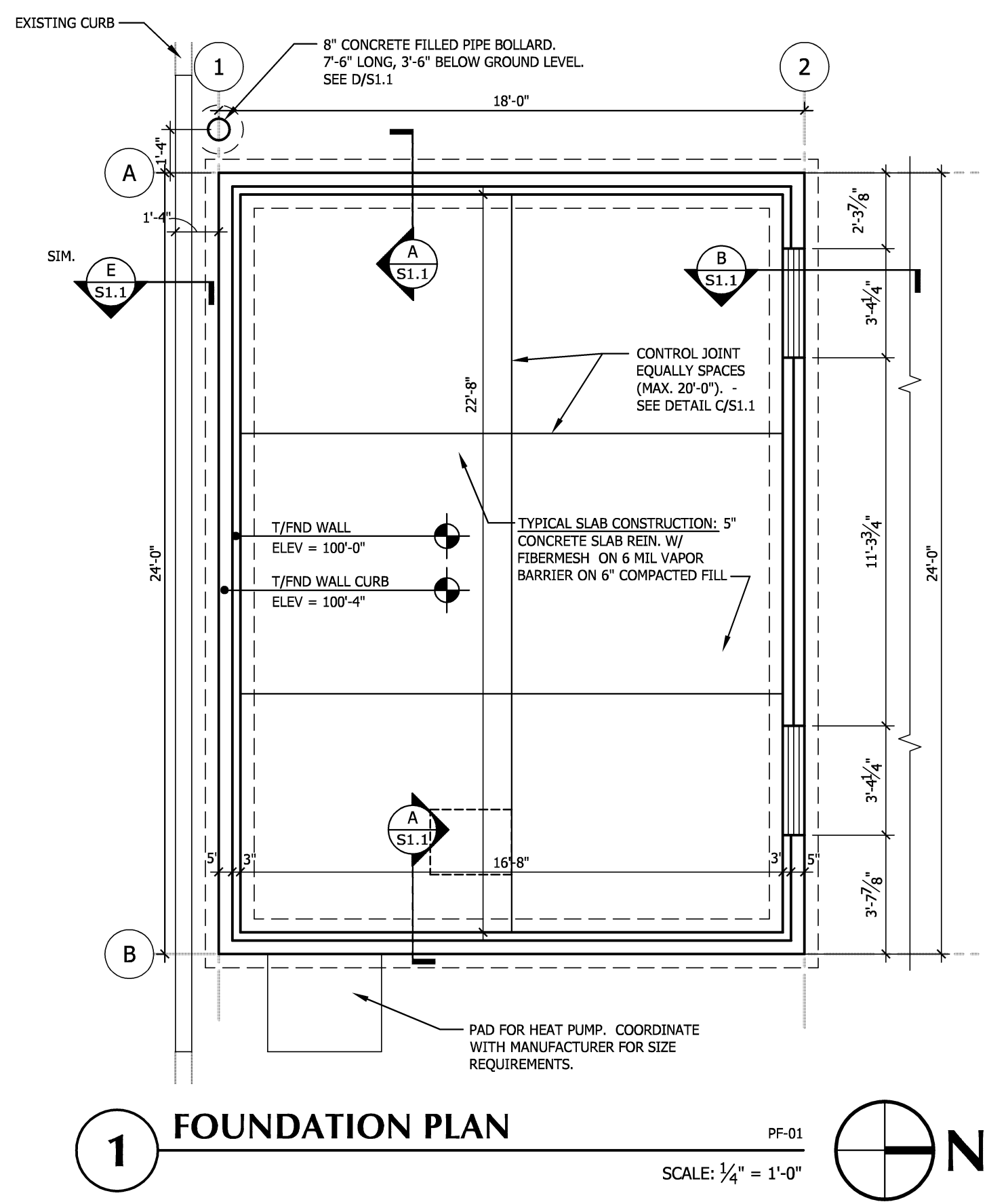
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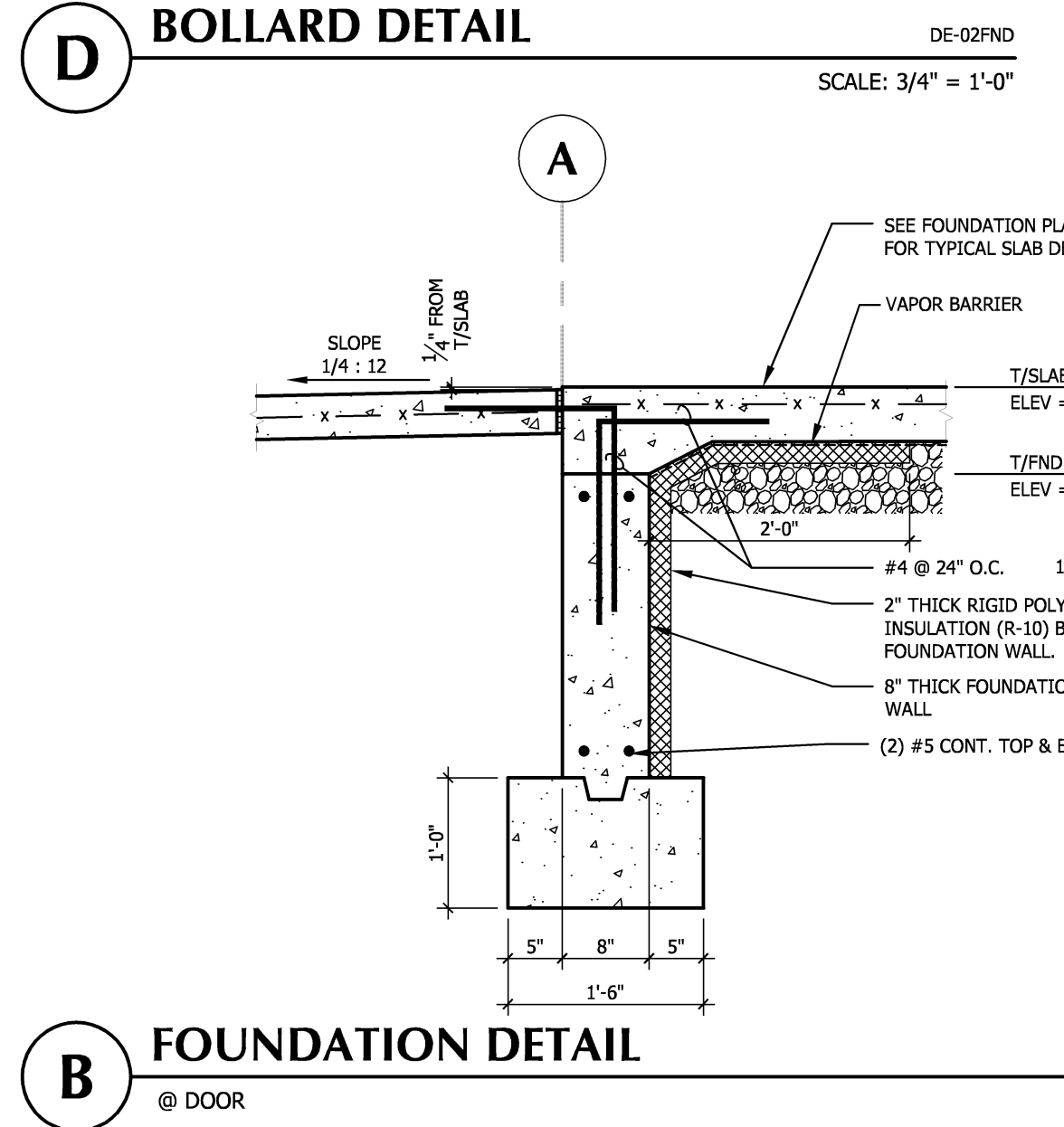
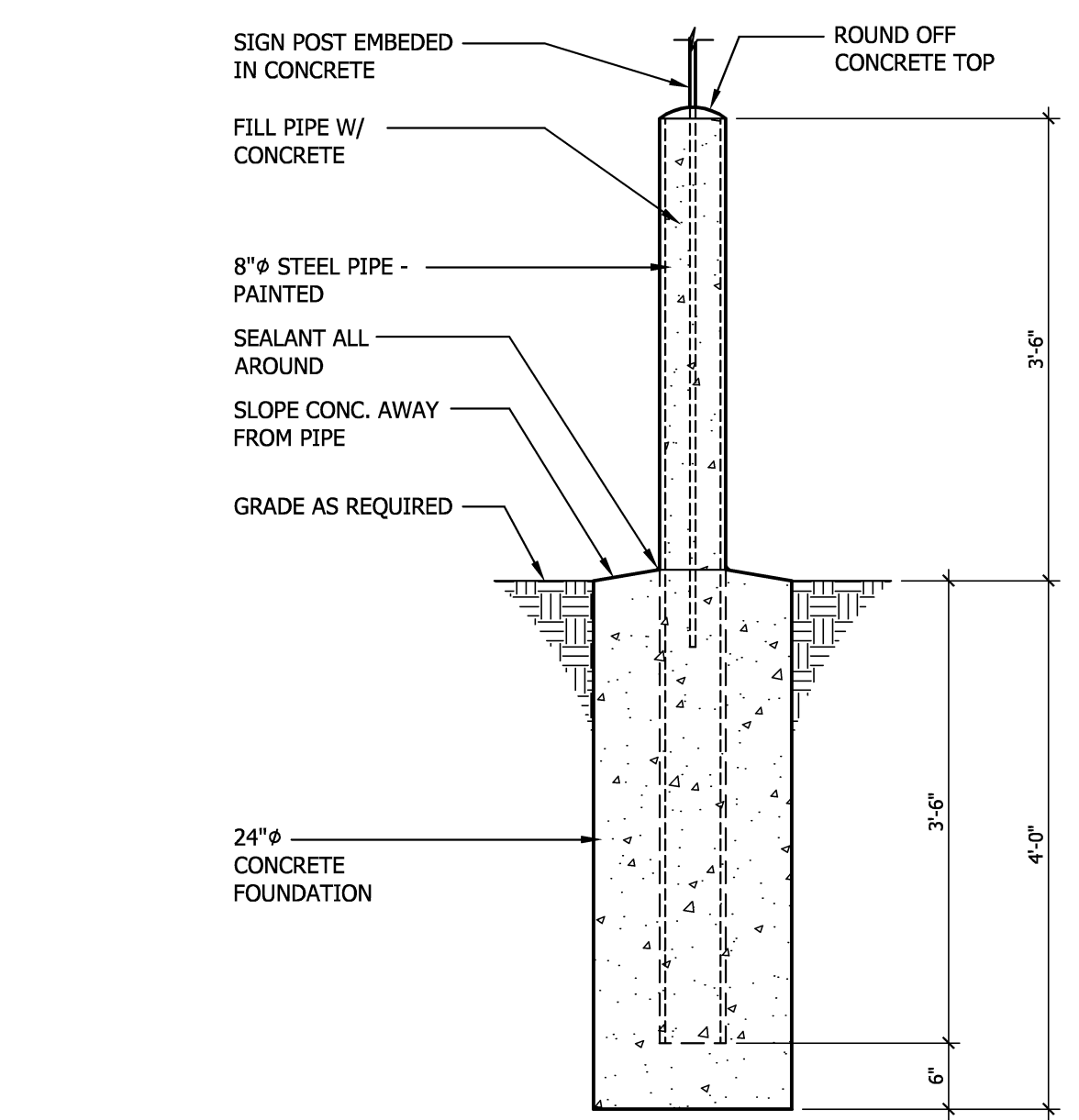
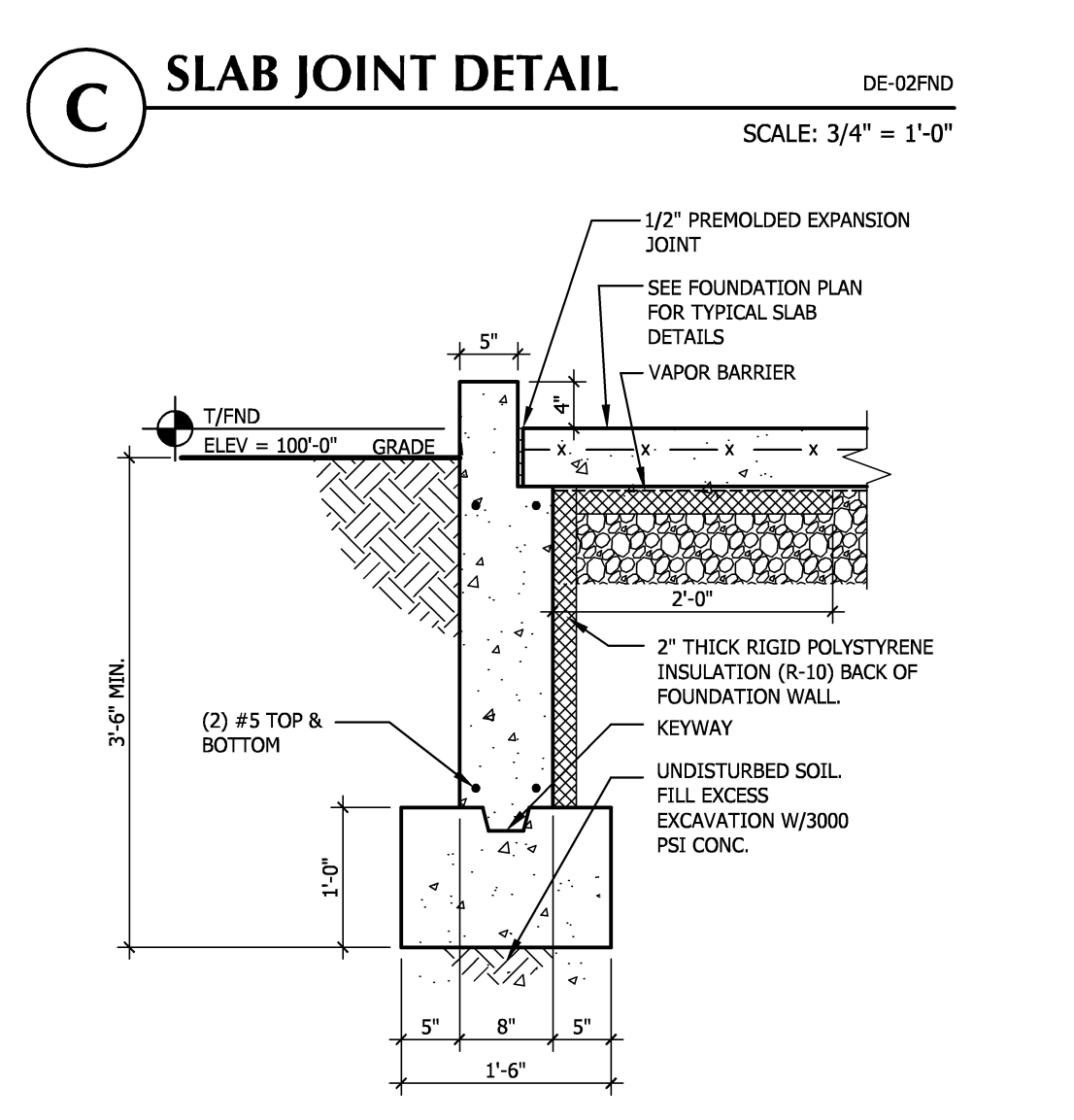
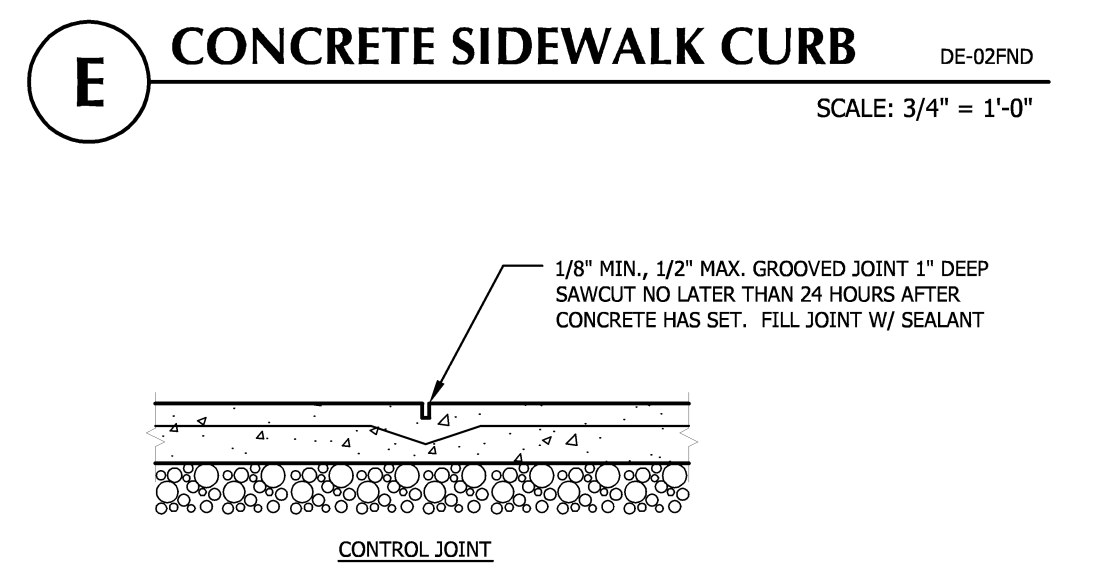
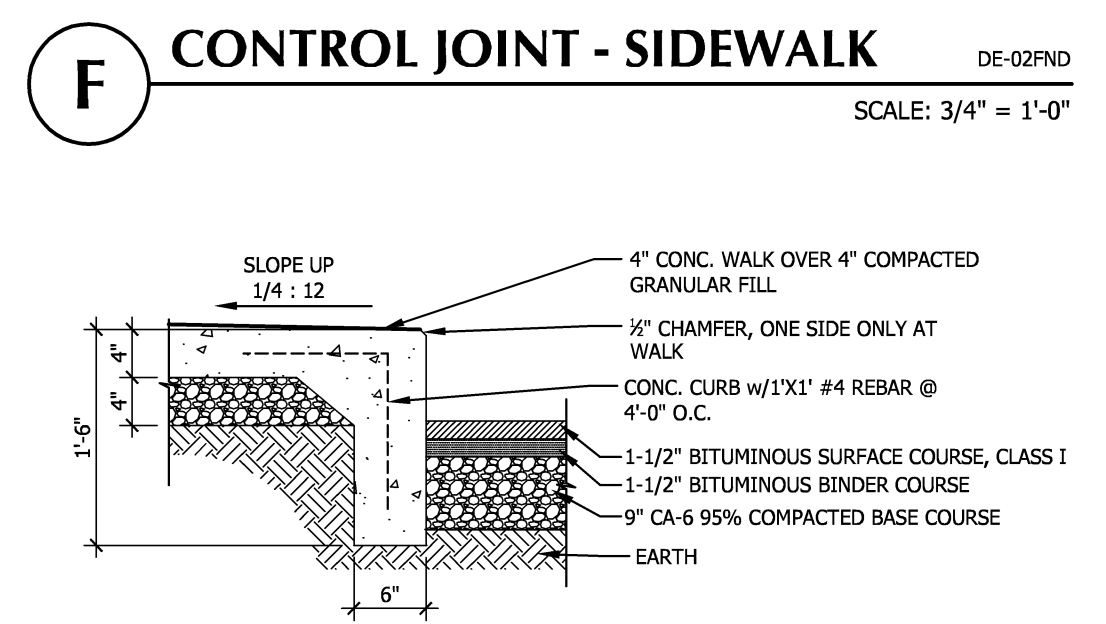
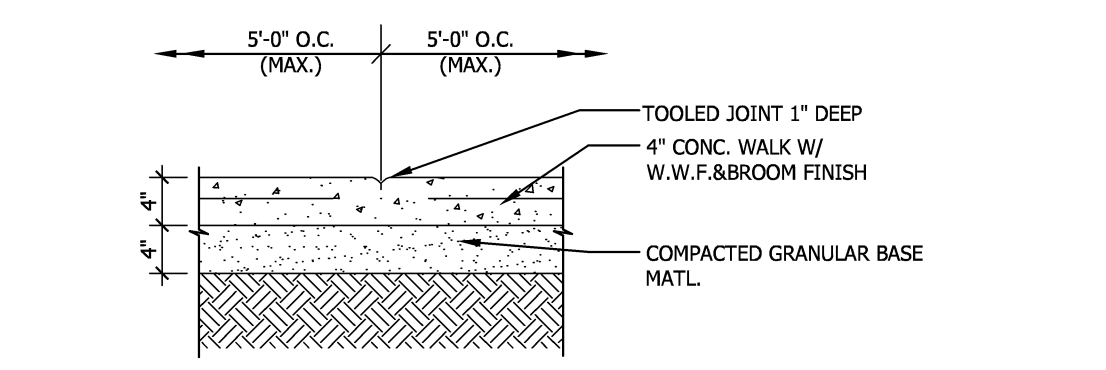
PROJECT NO. 112139
PROJECT MGR. FOUNDATION PLAN

S1.1



- EXCAVATION, CONCRETE AND REINFORCING NOTES**
- ALL FOUNDATION EXCAVATIONS SHALL BE TESTED TO VERIFY MINIMUM BEARING OF 3000 psf.
 - ALL SLAB-ON-GRADE AREAS SHALL BE PROOF ROLLED WITH THE HEAVIEST AVAILABLE EQUIPMENT (MINIMUM 25 TONS).
 - ALL SOFT SPOTS ENCOUNTERED SHALL BE REMOVED AND REPLACED TO FINISHED GRADE WITH APPROVED FILL MATERIAL.
 - FILL MATERIAL FOR ALL SLAB AREAS ARE TO BE PLACED IN LAYERS NOT EXCEEDING 9" AND COMPACTED TO A MINIMUM DENSITY OF 95% OF ASTM D1557 MAXIMUM DENSITY.
 - ALL FOOTINGS SHALL BE POURED INTO AN EARTH FORMED TRENCH FOR THEIR FULL DEPTH. PLACE BACKFILL EQUALLY ON BOTH SIDES OF FOUNDATION WALLS.
 - ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI STANDARD 318, LATEST EDITION.
 - ALL CONCRETE SHALL BE ULTIMATE STRENGTH TYPE NORMAL WEIGHT CONCRETE AND SHALL DEVELOP 3,000 psi COMPRESSIVE STRENGTH AT 28 DAYS.
 - SLUMP TESTS SHALL BE MADE FOR EACH 150 CUBIC YARDS OF CONCRETE. THE MAXIMUM SLUMP SHALL BE 3" FOR SLABS AND 4" FOR WALLS.
 - REINFORCEMENT SHALL CONFORM TO ASTM SPECIFICATION A615 GRADE 60. CORNER BARS SHALL BE PROVIDED AT ALL WALL CORNERS EQUAL TO THE HORIZONTAL WALL REINFORCING.
 - NO SLABS OR WALLS SHALL HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT CENTER OF SPAN WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN OR APPROVED.
 - FIBERMESH SHALL CONFORM TO ASTM SPECIFICATION C 94/C 94M, C 115/C 116M, AND ASTM C 1550. SEE DRAWINGS FOR TYPE OF FIBERMESH, MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE PER ACI 304 GUIDE.
 - NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE WORK, UNLESS COATED TO PREVENT ALUMINUM/CONCRETE REACTION.
 - ELECTRICAL CONDUIT EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN ONE THIRD THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.
 - THE CONCRETE CONTRACTOR SHALL PROVIDE A DUPLICATE COPY OF ALL READY MIX CONCRETE DELIVERY TICKETS TO THE GENERAL CONTRACTOR.
 - NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
 - BACKFILL ALL INTERIOR WALLS WITH GRANULAR MATERIAL (CA-6).
 - EXTERIOR WALLS NOT ADJACENT TO PAVED AREAS SHALL BE BACKFILLED WITH SUITABLE CLAY BACKFILL.
 - EXTERIOR WALLS ADJACENT TO WALKS, DRIVES, SHALL BE BACKFILLED WITH GRANULAR MATERIAL (CA-6).
 - TOP OF FOUNDATION AT 100'-0" UNLESS NOTED OTHERWISE

STATE OF ILLINOIS
JOHN F. SWIERK
001-012383
LICENSED ARCHITECT
Signature: [Signature] Date: 11/30/14
Expires: 11/30/14



MECHANICAL SPECIFICATIONS

GENERAL CONDITIONS AND GENERAL NOTES INDICATED WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS SHALL GOVERN WHERE APPLICABLE.

WORK INDICATED ON DRAWINGS SHALL BE CONSIDERED NEW AND IN-CONTRACT UNLESS NOTED OTHERWISE.

COMPLETELY OPERATIONAL HEATING, VENTILATING, AIR CONDITIONING AND EXHAUST SYSTEMS READY FOR USE AS ITEMIZED BUT NOT LIMITED TO AS FOLLOWS:

DEMOLITION, REMOVAL, AND ALTERATIONS OF EXISTING SYSTEMS AND EQUIPMENT AS REQUIRED THOUGH NOT SPECIFICALLY INDICATED ACCOMMODATING PROPOSED WORK.

AIR HANDLING UNIT AND HEAT PUMP UNIT.
DUCTWORK AND AIR DEVICES.
THERMAL INSULATION.
CONTROLS, SENSORS, CONTROL WIRING, AND INTERLOCKS.

RELATED WORK BY OTHER TRADES

ELECTRIC POWER WIRING.

RELATED WORK BY OTHERS

TELECOMMUNICATIONS.

MECHANICAL INSTALLATION NOTES

WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION, INCLUDING ADA GUIDELINES AND ENERGY COMPLIANCE.

WORK AND INSTALLATIONS SHALL BE PERFORMED IN FIRST-CLASS NEAT WORKMANLIKE MANNER. REMOVE DEBRIS ON REGULAR BASIS AND CLEAN EQUIPMENT DURING PROJECT COMPLETION.

APPLY, PROCURE, AND PAY FOR REQUIRED PERMITS AND INSPECTIONS.

FIELD VERIFY PROJECT CONSTRUCTION CONDITIONS AND PROJECT SITE CONDITIONS PRIOR TO SUBMITTING BID.

THIS TRADE SHALL DO ITS OWN CUTTING AND PATCHING, TRENCHING AND BACKFILLING. PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE FILLED WITH FIRESTOP PRODUCT. SUBMIT FIRESTOP PRODUCT MATERIAL SPECIFICATIONS TO LOCAL AUTHORITIES HAVING JURISDICTION.

CONFER WITH THE OTHER TRADES IN COORDINATION OF THIS WORK FOR REQUIRED CLEARANCES, CHASES, RECESSES AND OPENINGS.

PROPOSAL PRICE SHALL INCLUDE SPECIFIED MATERIALS ONLY. SHOULD CONTRACTOR WISH TO SUBSTITUTE MATERIALS, EQUIPMENT OR MANUFACTURERS, IT SHALL BE DONE BY STATING EACH SUBSTITUTION AND ITS PRICE ADJUSTMENT.

DRAWINGS SHALL BE FOR BIDDING ONLY. ROUGH-IN AND FINAL CONNECTION SHALL BE MADE FROM APPROVED EQUIPMENT DRAWINGS ONLY.

GUARANTEE WORK AND EQUIPMENT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR PERIOD OF ONE (1) YEAR FROM DATE OF FINAL CERTIFICATE OF OCCUPANCY. ANY REPAIRS OR REPLACEMENT DURING THIS PERIOD SHALL BE MADE WITHOUT COST TO OWNER.

REFRIGERATION PIPING SHALL BE DEHYDRATED AND CAPPED ACR COPPER WITH WROUGHT COPPER FITTINGS. JOINTS SHALL BE MADE WITH SILFOS, EXCEPT AT VALVES AND OTHER EQUIPMENT DAMAGED BY HIGH TEMPERATURES WHERE 95-5 SOLDER SHALL BE INSTALLED.

INSULATE SUPPLY, RETURN, AND OUTSIDE AIR INTAKE DUCTS. DUCTS INSIDE BUILDING SHALL HAVE EXTERNAL WRAP WITH 1-1/2" BLANKET TYPE FIBERGLASS INSULATION WITH FACTORY APPLIED FIBERGLASS REINFORCED ALUMINUM FOIL FACING AND THERMAL VALUE OF R-5 OR GREATER AT 75 DEG F (CONDITIONED SPACES). DUCTS OUTSIDE BUILDING SHALL HAVE EXTERIOR RIGID FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR-RETARDENT FACING, PROVIDING THERMAL VALUE R-8 OR GREATER AT 0 DEG F (UNCONDITIONED SPACES). INSULATION SHALL BE WRAPPED TIGHT WITH JOINTS ABUTTED AND SEALED AND BE SECURED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. INSULATION SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25 AND SMOKE DEVELOPED RATING NOT TO EXCEED 50, PER ASTM 8-04.

DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN SMACNA MANUAL. DUCTS SHALL BE SEALED TO PRESSURE CLASS A, WITH MECHANICAL JOINTS AND ADHESIVE SEALANT. FIRE DAMPERS SHALL BE TYPE B UNLESS NOTED OTHERWISE ON DRAWINGS.

FLEXIBLE RUNOUTS SHALL NOT EXCEED 5'-0" AND SHALL BE INSULATED WITH VAPOR BARRIER. NO PVC SHALL BE PERMITTED.

PROVIDE MANUALLY OPERATED VOLUME CONTROL AND/OR SPLITTER DAMPERS IN DUCT BRANCHES FOR PROPER BALANCING OF AIR HANDLING SYSTEM.

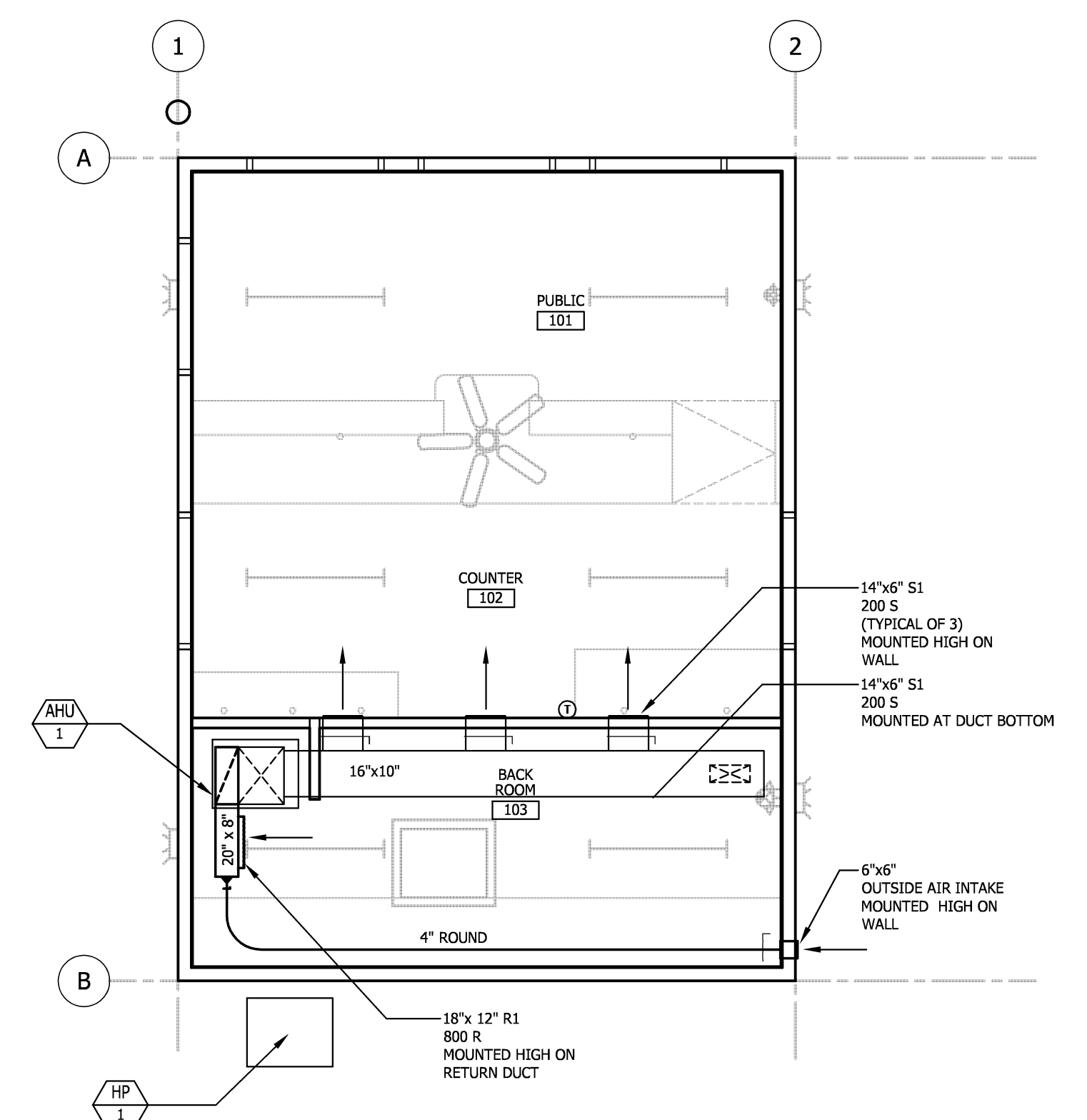
CONTROL DAMPERS SHALL BE GALVANIZED STEEL LOW LEAKAGE TYPE WITH OPENING SIZES AS INDICATED. PROVIDE MANUAL OPERATORS OR MOTORIZED ACTUATORS AS INDICATED OR REQUIRED.

AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.

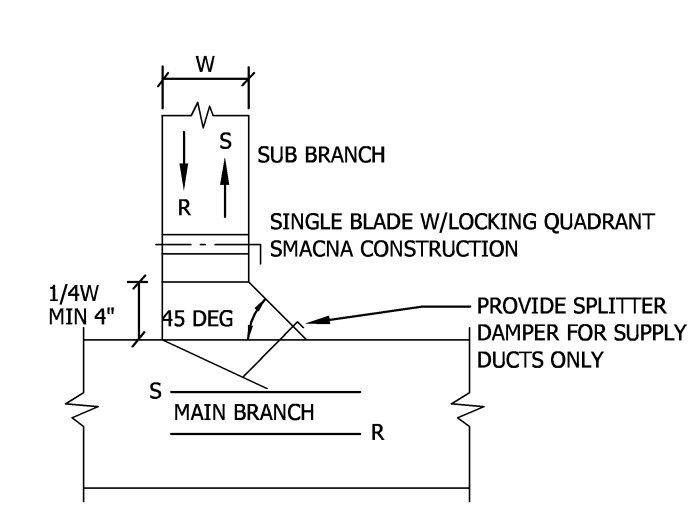
AIR TEST AND BALANCE REPORT FOR SUPPLY, RETURN, OUTDOOR AIR INTAKE, AND EXHAUST SYSTEMS TO QUANTITIES INDICATED, WITHIN 10% TOLERANCE. SUBMIT THREE (3) REPORTS FROM INDEPENDENT TESTING AGENCY STATING EACH SYSTEM COMPLIANCE AND APPROVAL AUTHORIZATION.

SUBMIT SIX (6) COPIES OF FOLLOWING ITEMS FOR SHOP DRAWING REVIEW:

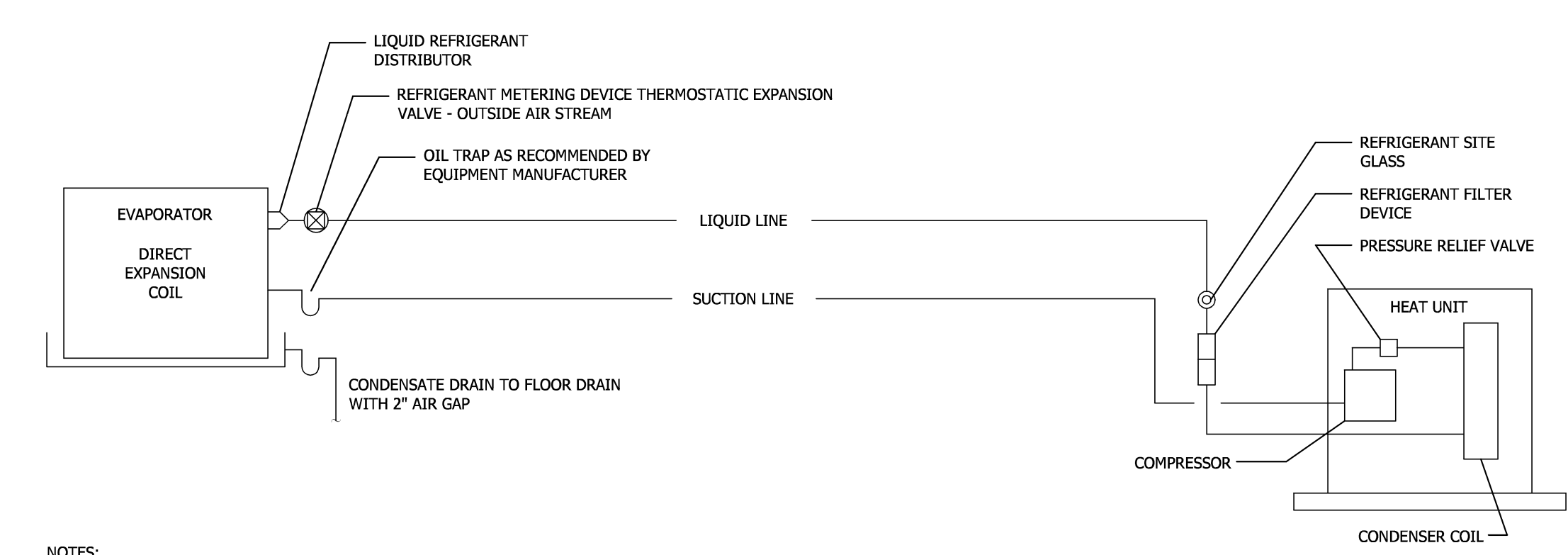
AIR HANDLING UNITS AND HEAT PUMP UNIT.
DUCTWORK AND AIR DEVICES.
LOUVERS, VENTILATORS, AND DAMPERS.
THERMAL INSULATION.
CONTROLS, SENSORS, CONTROL WIRING, AND INTERLOCKS.



1 MECHANICAL PLAN PF-01
SCALE: 1/4" = 1'-0"

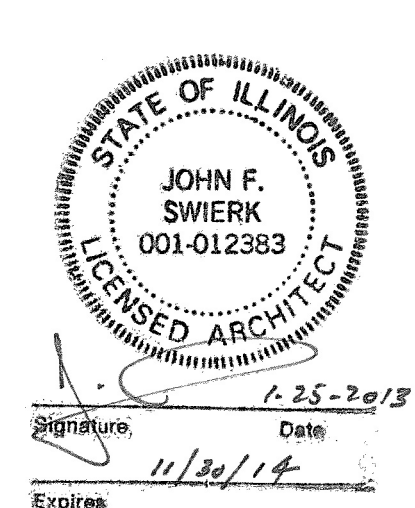


LOW PRESSURE DUCT TAKE OFF
NOT TO SCALE



- NOTES:
- INSULATE REFRIGERANT SUCTION PIPING AND CONDENSATE DRAIN WITH 1/2" THICK "IMCO-LOCK" OR EQUIVALENT ELASTOMERIC INSULATION. OUTER JACKET OF INSULATION SHALL BE RATED NOT TO EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED 50, PER ASTM E-84.
 - INSTALL PRESSURE RELIEF VALVE ON HIGH PRESSURE SIDE OF SYSTEM, UPSTREAM OF ANY INTERVENING VALVES.
 - REFRIGERANT PIPING SHALL BE TYPE "K" COPPER WITH WROUGHT FITTINGS AND BRAZED CONNECTIONS/JOINTS.
 - CONDENSATE DRAIN SHALL BE SCHEDULE 40 PVC.
 - EQUIPMENT SHALL BE FACTORY WIRED IN ACCORDANCE WITH ELECTRICAL CODE.
 - EXPANSION VALVE, REFRIGERANT PIPING DEVICES, AND CONNECTIONS ARE NOT PERMITTED TO BE INSTALLED IN AIR STREAM.

REFRIGERANT PIPING SCHEMATIC
NOT TO SCALE



| AIR DEVICE SCHEDULE | | | | |
|---------------------|---------------------|---------|--------|---------|
| TAG | STYLE | FRAME | DAMPER | NOTES |
| S1 | ADJUSTABLE DIFFUSER | SURFACE | 0BD | 1, 2, 3 |
| R1 | DEFLECTION GRILLE | SURFACE | - | 1, 2, 3 |

NOTES:

- COLOR TO MATCH WALL OF AREA SERVED.
- REFERENCE ARCHITECTURAL DRAWINGS FOR AIR DEVICE MOUNTING
- COORDINATION, PROVIDE DRYWALL CEILING TRIM FRAMING.

| AIR HANDLING UNIT / HEAT PUMP SCHEDULE | | | | | | | | | | | | | | | | |
|--|--|----------------|-----------|----------|-----------------|---------------|----------|--------------|----------------|----------------|---------------|----------|--------------|-------|-------|-------------|
| TAG | DESCRIPTION | AIR RATE (CFM) | OAI (CFM) | ESP (WC) | ELECTRIC HEATER | VOLTAGE PHASE | MCA MOCP | WEIGHT (LBS) | HEAT PUMP UNIT | COOLING (TONS) | VOLTAGE PHASE | MCA MOCP | WEIGHT (LBS) | S/EER | REFG | NOTES |
| AHU-1 / HP-1 | AIR HANDLING UNIT WITH INTEGRAL ELECTRIC HEAT AND HEAT PUMP UNIT | 800 | 80 | 0.6" | 8 KW | 240 1 | 38 50 | 150 | EXTERIOR GRADE | 2 | 240 1 | 12 20 | 250 | 13.0 | R410A | 1,2,3,4,5,6 |

NOTES:

- PROVIDE CASED EVAPORATOR COIL WITH GASKETED SEALED FURNACE UNIT CONNECTION AND THREADED CONDENSATE DRAIN PIPING.
- PROVIDE INTEGRAL ELECTRIC HEATER WITH CONNECTIONS.
- PROVIDE RETURN AIR FILTER SLEEVING WITH 2" DISPOSABLE AIR FILTER, MINIMUM MERV 8.
- PROVIDE FURNACE UNIT VIBRATION-ISOLATION MOUNTING PADS.
- PROVIDE CONDENSING UNIT MOUNTING PAD AND COMPACTED GRAVEL BASE. VERIFY ACT MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT CONTROL.

| MECHANICAL SYMBOLS | |
|--------------------|------------------------|
| FD | FIRE DAMPER |
| OAI | OUTDOOR AIR INTAKE |
| S | SUPPLY AIR |
| R | RETURN AIR |
| E | EXHAUST AIR |
| RTU | ROOFTOP UNIT |
| EF | EXHAUST FAN |
| UNO | UNLESS NOTED OTHERWISE |
| - G - | GAS PIPING |
| | SUPPLY OPENING |
| | RETURN/EXHAUST OPENING |
| | BALL VALVE |
| | BUTTERFLY VALVE |
| | UNION |
| | THERMOSTAT |
| | CIRCUIT SETTER |

CAMPGROUND PERMIT BOOTH
DNR FILE # 2-12-012
ILLINOIS BEACH STATE PARK
38303 N. ILLINOIS BEACH STATE PARK
ZION, ILLINOIS

| | |
|------------|------------|
| 11/05/2012 | 11/05/2012 |
| 11/17/2012 | 11/17/2012 |
| 12/3/2012 | 12/3/2012 |
| 12/6/2012 | 12/6/2012 |

| | |
|-----------------------|------------|
| ME REVIEW | 11/05/2012 |
| FINAL REVIEW | 11/17/2012 |
| ISSUED FOR PERMIT/BID | 12/3/2012 |
| NO CHANGES | 12/6/2012 |

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| | |
|---------------------------|--------|
| PROJECT NO. | 112139 |
| PROJECT MGR. | DRH |
| MECHANICAL PLAN & DETAILS | |
| M3.1 | |

ELECTRICAL SPECIFICATIONS

GENERAL CONDITIONS AND GENERAL NOTES INDICATED WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS SHALL GOVERN WHERE APPLICABLE.

WORK INDICATED ON DRAWINGS SHALL BE CONSIDERED NEW AND IN-CONTRACT UNLESS NOTED OTHERWISE.

COMPLETELY OPERATIONAL ELECTRICAL SYSTEMS READY FOR USE AS ITEMIZED BUT NOT LIMITED TO AS FOLLOWS:

DEMOLITION, REMOVAL, AND ALTERATIONS OF EXISTING SYSTEMS AND EQUIPMENT AS REQUIRED THOUGH NOT SPECIFICALLY INDICATED ACCOMMODATING PROPOSED WORK.

INCOMING SECONDARY ELECTRIC SERVICES INCLUDING PROVISIONS FOR METERING AND SERVICE SWITCHES.

PANELS, BREAKERS, CONDUIT, WIRING, AND BRANCH CIRCUITS CONNECTING EACH EQUIPMENT, FIXTURE, DEVICE AND EQUIPMENT.

LIGHTING FIXTURES AND LAMPS.

CONCRETE FIXTURE BASES.

EMPTY CONDUIT SYSTEM FOR TELEPHONE/DATA COMMUNICATIONS.

RELATED WORK BY OTHER TRADES

TELEPHONE AND DATA WIRING, DEVICES, AND TERMINATIONS.

RELATED WORK BY OTHERS

TELECOMMUNICATIONS.

ELECTRIC INSTALLATION NOTES

WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION, INCLUDING ADA GUIDELINES AND ENERGY COMPLIANCE.

WORK AND INSTALLATIONS SHALL BE PERFORMED IN FIRST-CLASS NEAT WORKMANLIKE MANNER. REMOVE DEBRIS ON REGULAR BASIS AND CLEAN EQUIPMENT DURING PROJECT COMPLETION.

APPLY, PROCURE, AND PAY FOR REQUIRED PERMITS AND INSPECTIONS.

FIELD VERIFY PROJECT CONSTRUCTION CONDITIONS AND PROJECT SITE CONDITIONS PRIOR TO SUBMITTING BID.

THIS TRADE SHALL DO ITS OWN CUTTING AND PATCHING, TRENCHING AND BACKFILLING. PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE FILLED WITH FIRESTOP PRODUCT. SUBMIT FIRESTOP PRODUCT MATERIAL SPECIFICATIONS TO LOCAL AUTHORITIES HAVING JURISDICTION.

CONFER WITH OTHER TRADES IN COORDINATION OF THIS WORK FOR REQUIRED CLEARANCES, CHASES, RECESSES AND OPENINGS.

PROPOSAL PRICE SHALL INCLUDE SPECIFIED MATERIALS ONLY. SHOULD CONTRACTOR WISH TO SUBSTITUTE MATERIALS, EQUIPMENT OR MANUFACTURERS, IT SHALL BE DONE BY STATING EACH SUBSTITUTION AND ITS PRICE ADJUSTMENT.

DRAWINGS SHALL BE FOR BIDDING ONLY. ROUGH-IN AND FINAL CONNECTION SHALL BE MADE FROM APPROVED EQUIPMENT DRAWINGS ONLY.

SIZE AND TYPE OF EQUIPMENT BRANCH OVERCURRENT PROTECTIVE DEVICE(S) SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. FIELD VERIFY EACH REQUIRED DEVICE PRIOR TO INSTALLATION.

GUARANTEE WORK AND EQUIPMENT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR PERIOD OF ONE (1) YEAR FROM DATE OF FINAL CERTIFICATE OF OCCUPANCY. ANY REPAIRS OR REPLACEMENT DURING THIS PERIOD SHALL BE MADE WITHOUT COST TO OWNER.

WIRE SHALL HAVE 600 VOLT INSULATION, NOT LESS THAN #12 EXCEPT FOR CONTROLS, BE SOLID COPPER TYPE THIN OR THWN FOR #10 AND SMALLER, AND BE STRANDED COPPER TYPE THIN OR THWN FOR WIRE #10 AND LARGER.

CONDUIT IN GROUND FOR EXTERIOR FIXTURES AND EQUIPMENT MAY BE PVC (IF PERMITTED BY LOCAL AUTHORITIES). CONDUIT EXPOSED TO WEATHER, IN SLABS ON GRADE, AND WHERE REQUIRED BY CODE SHALL BE RIGID GALVANIZED STEEL WITH WATERPROOF FITTINGS AND APPROVED COMPOUND. CONDUIT ELSEWHERE SHALL BE EMT WITH COMPRESSION OR SET SCREW FITTINGS.

DEVICES AND PLATES IN FINISHED AREAS SHALL BE SELECTED BY ARCHITECT. DEVICES IN UNFINISHED AREAS SHALL BE WHITE WITH GALVANIZED PLATES.

DEVICES SHALL BE, UNLESS NOTED OTHERWISE ON DRAWINGS: LEVITON 55211 (SWITCHES), LEVITON 58001 (RECEPTACLES), LEVITON 68991 (GFI RECEPTACLES), LEVITON 53621G (ORANGE IG RECEPTACLES).

MOUNTING HEIGHTS SHALL BE, UNLESS NOTED OTHERWISE ON DRAWINGS: SWITCHES AT 4'-0" ABOVE FINISHED FLOOR (3'-6" ADA), RECEPTACLES AT 1'-6" ABOVE FINISHED FLOOR (INDOOR) INCLUDING COMMUNICATION RECEPTACLES, 2'-0" ABOVE FINISHED FLOOR (OUTDOOR), AND 4" ABOVE COUNTERTOP BACKSPLASH.

IDENTIFY DISCONNECTS, STARTERS, PANELS, SWITCHBOARDS, DIMMERS, AND SWITCHES WITH 3/4" HIGH WHITE-FACED MICA-TAPE WITH 1/4" BLACK LETTERS. DIMMERS AND SWITCHES IN GROUPS OF 2 OR LESS DO NOT REQUIRE IDENTIFICATION.

BRANCH PANELS SHALL HAVE COPPER BUS WITH BOLT-ON TYPE BREAKERS. PROVIDE ACCURATE AND TYPE-PRINTED PANEL SCHEDULE FOR EACH PANEL.

ELECTRICAL EQUIPMENT SHALL HAVE MINIMUM OF 10,000 AMP INTERRUPTING CAPACITY UNLESS NOTED OTHERWISE ON DRAWINGS, OR THE EQUIPMENT MANUFACTURER SUPPLIES DETAILED MINIMUM AIC CALCULATIONS JUSTIFYING RATINGS OF EQUIPMENT PROVIDED.

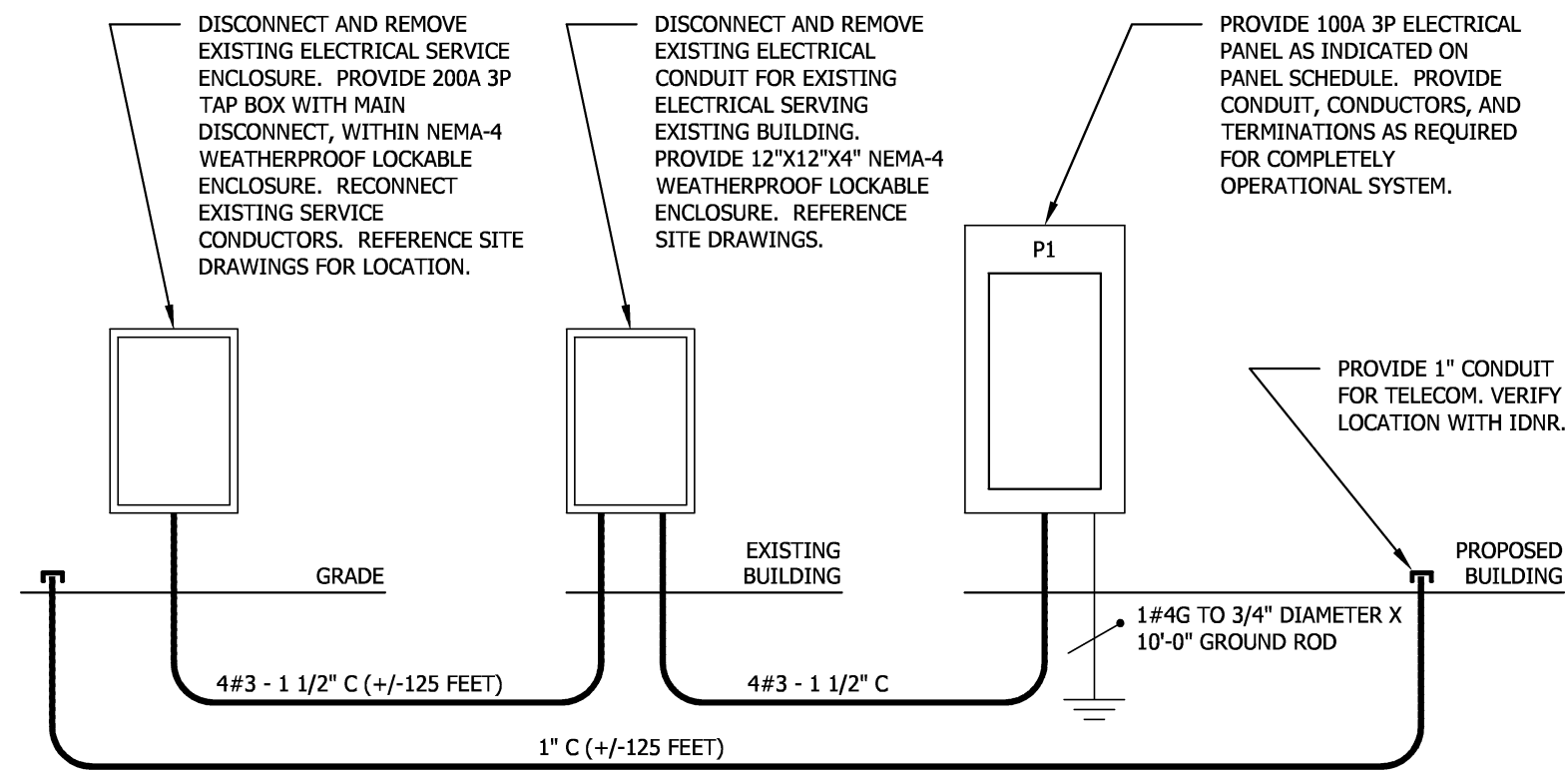
COMMUNICATION OUTLETS SHALL BE INSTALLED WITH 4" BOX AND SINGLE GANG COVER, AND 3/4" CONDUIT ROUTED INTO ACCESSIBLE SPACE.

EXTERIOR EQUIPMENT SHALL BE NEMA 3R AND WEATHERPROOF LIQUID-TIGHT FLEXIBLE METAL CONDUIT CONNECTIONS.

SUBMIT SIX (6) COPIES OF FOLLOWING ITEMS FOR SHOP DRAWING REVIEW:

LIGHTING FIXTURES.

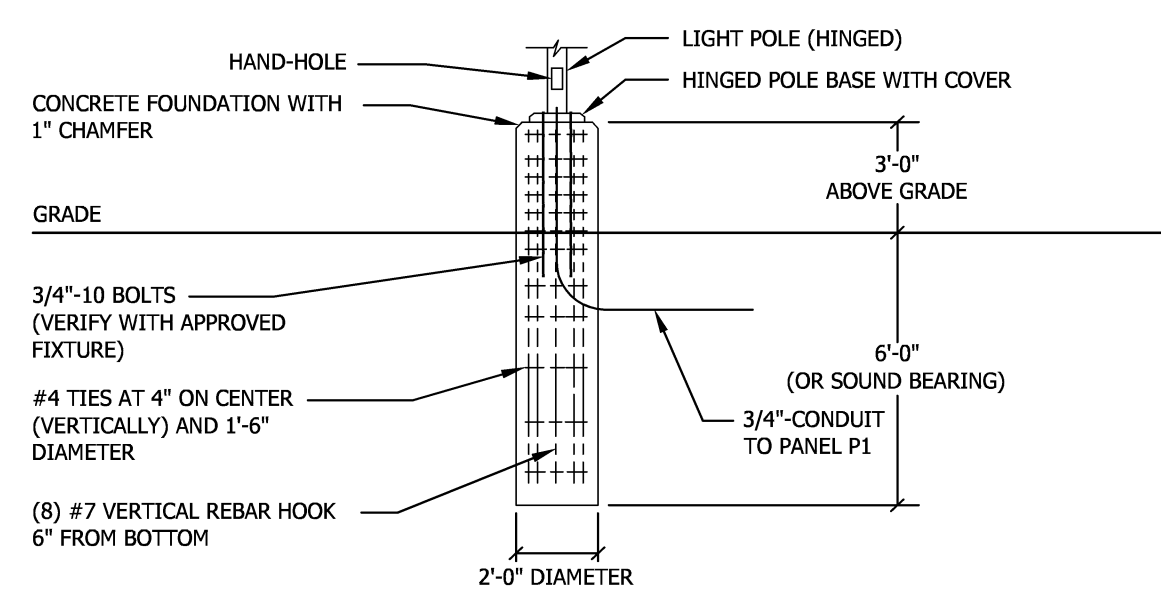
PANELS AND BREAKERS.



- NOTES:
- WORK SHALL COMPLY WITH ELECTRIC CODE AND LOCAL CODES. COORDINATE EXACT CODE REQUIREMENTS AND LOCAL AMENDMENTS WITH LOCAL INSPECTORS PRIOR TO ANY INSTALLATION.
 - THE CONTRACTOR SHALL VISIT THE PROJECT DURING THE BID PERIOD, ATTEND ALL PRE-BID CONFERENCES AND BECOME FAMILIAR WITH THE ENTIRE SCOPE OF WORK. CONTRACTOR'S BID PROPOSAL SHALL BE BASED IN PART BY HIS OBSERVANCE OF ALL EXISTING CONDITIONS. NO CHANGE ORDERS SHALL BE ACCEPTED FOR FAILURE TO VISIT THE SITE PRIOR TO SUBMITTING THE BID.
 - GROUND IN ACCORDANCE WITH ELECTRIC CODE AND LOCAL CODES.

ELECTRICAL RISER

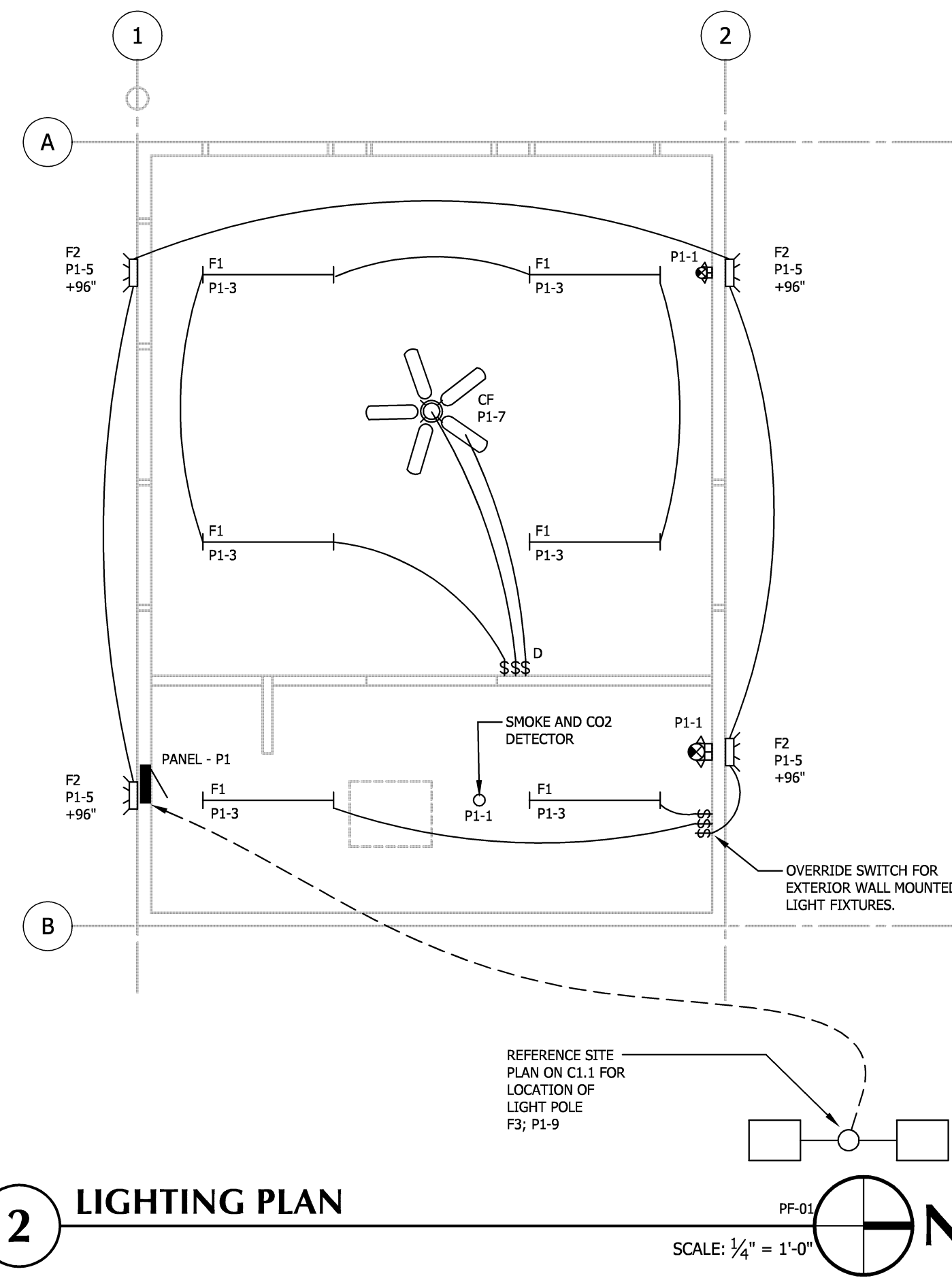
NOT TO SCALE



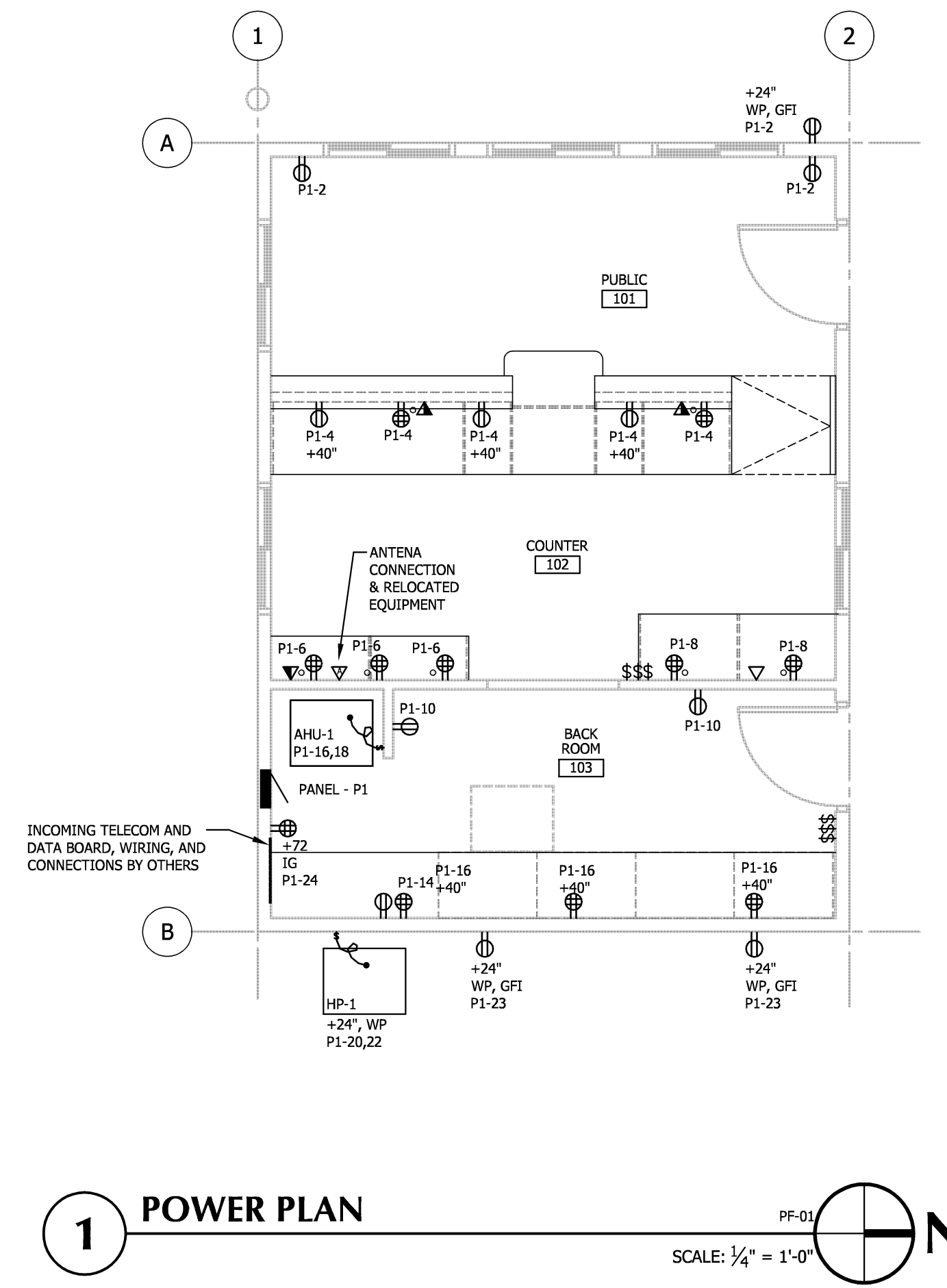
- NOTES:
- PROVIDE 1#6 C/J GROUND CONDUCTOR FROM GROUND STUD ON POLE TO 3/4" DIAMETER X 10'-0" COPPERWELDED BOND DRIVEN GROUND ROD ADJACENT TO POLE.
 - PROVIDE GROUNDING CONDUCTOR TO BRANCH CIRCUIT PANEL AND BOND.
 - VERIFY LOCATION WITH SITE PLAN AND UTILITIES, PRIOR TO INSTALLATION.

LIGHTING FIXTURE CONCRETE BASE DETAIL

NOT TO SCALE



2 LIGHTING PLAN



1 POWER PLAN

| LIGHTING FIXTURE SCHEDULE | | | | | | |
|---------------------------|---------------------------------------|-----------|-------------|------|---------|-----------------------|
| TAG | DESCRIPTION | TYPE | LAMP | VA'S | VOLTAGE | NOTES |
| F1 | 48" SURFACE MOUNTED ACRYLIC WRAP | SURFACE | (2) 32W TB | 70 | 120 | 4, 5 |
| F2 | WALL MOUNTED FULL CUT-OFF | WALL | 100W INCAND | 100 | 120 | 5, 10 |
| F3 | POLE MOUNTED FULL CUT-OFF | POLE | (6) 21W LED | 130 | 120 | 6, 7, 11 |
| CF | 48" CEILING FAN/LIGHT, 5 BLADE, WHITE | SURFACE | 13W CFL | 110 | 120 | 8, 9 |
| | COMBO EXTT/BATTERY UNIT | EXTT/BATT | LED/INCAND | 10 | 120 | 1, 2, 3, SELF-POWERED |

NOTES:

- PROVIDE FACES, MOUNTING, AND ARROWS AS REQUIRED. PROVIDE AT LEAST 90 MINUTES OF EMERGENCY POWER.
- PROVIDE MOUNTING AND AT LEAST (2) LAMP HEADS. PROVIDE AT LEAST 90 MINUTES OF EMERGENCY POWER.
- CONNECT TO LIGHTING CIRCUIT OF ROOM SERVED AHEAD OF LOCAL CONTROL DEVICE UNLESS NOTED OTHERWISE.
- T8 FLUORESCENT LAMPS SHALL HAVE MINIMUM 2800 INITIAL LAMP LUMENS/48", AND COLOR TEMPERATURE OF 3000K WITH MINIMUM COLOR RENDERING INDEX OF 82. BALLASTS SHALL BE ELECTRONIC WITH THD LESS THAN 20% AND PF GREATER THAN 95%.
- VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
- PROVIDE SQUARE STEEL STRAIGHT POLE WITH HANDHOLE, MOUNTING BASE FLANGE, AND HARDWARE.
- PROVIDE TWO (2) LIGHTING FIXTURE HEADS WITH SUPPORT ARM MOUNT AND HARDWARE.
- PROVIDE MOUNTING BRACKET BETWEEN CEILING JOISTS TO SUPPORT CEILING FAN.
- SWITCH FAN AND LIGHT SEPARATELY, PROVIDE FAN SPEED CONTROL DIMMER.
- PROVIDE YELLOW-COLOR (BUG LIGHT) LAMP.
- POLE TO HAVE A HINGED BASE. ORIENT HINGED BASE TO ALLOW POLE SWING DOWN TO GROUND AWAY FROM TREES AND BUILDINGS FOR LIGHT REPLACEMENT.

| PANEL SCHEDULE | | TAG | | P1 |
|----------------------|-------|-----------|------|-----|
| LOAD | NOTES | VA | P | A |
| EXIT SIGNS | 2,4 | 20 | 1 | 20 |
| INTERIOR LIGHTS | | 420 | 1 | 20 |
| EXTERIOR WALL LIGHTS | | 510 | 1 | 20 |
| CEILING FAN | | 100 | 1 | 20 |
| EXTERIOR POLE LIGHT | | 7 | 240 | 1 |
| SPARE | | - | 1 | 20 |
| SPARE | | - | 1 | 20 |
| SPARE | | - | 1 | 20 |
| SPARE | | - | 1 | 20 |
| SPARE | | - | 1 | 20 |
| EXTERIOR RECEPTACLES | | 360 | 1 | 20 |
| TOTAL LOAD | | 16,340 VA | | |
| VOLTAGE | | 120/208 V | 3 PH | 4 W |

NOTES:

- BALANCED LOAD = 125% OF LIGHTING + 100% OF HVAC + 65% OF APPLIANCES.
- PROVIDE GROUNDING BUS.
- PROVIDE LOCKING DEVICE ON CIRCUIT BREAKER.
- PROVIDE ISOLATED GROUND CONDUCTOR.
- PROVIDE SEPARATE NEUTRAL CONDUCTOR.
- PROVIDE HACR CIRCUIT BREAKER.
- VERIFY REQUIREMENTS WITH APPROVED EQUIPMENT SPECIFICATIONS.
- PROVIDE PHOTOCELL AND CONTACTORS NECESSARY WITH CONNECTIONS FOR EXTERIOR LIGHTING.

| ELECTRICAL SYMBOLS LIST | |
|-------------------------|--|
| AFF | ABOVE FINISHED FLOOR |
| CIRCUIT | CIRCUIT |
| CCR | CONVENIENCE RECEPTACLE |
| G | GROUND (GREEN) |
| GFI | GROUND FAULT INTERRUPT |
| IG | ISOLATED GROUND (ORANGE) |
| L | LIGHTING |
| MCB | MAIN CIRCUIT BREAKER |
| OS | OCCUPANCY SENSOR - NOTE B |
| R | RECEPTACLE |
| UNO | UNLESS NOTED OTHERWISE |
| WP | WEATHER PROOF |
| ⊕ | RECEPTACLE - DUPLEX |
| ⊕ | RECEPTACLE - QUAD |
| ▽ | WALL MOUNTED DATA OUTLET - NOTE A |
| ▽ | WALL MOUNTED ANTENNA OUTLET - CONNECT TO RELOCATED ANTENNA |
| ▽ | WALL MOUNTED DATA/TELEPHONE OUTLET - NOTE A |
| ⊕ | EXIT |
| ⊕ | SINGLE-POLE SWITCH, K=KEY, T=THERMAL, P=PILOT |
| ⊕ | DIMMER SWITCH |
| ⊕ | BRANCH PANELBOARD |

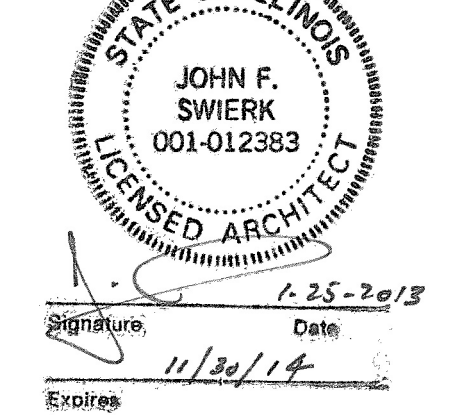
NOTE A: PROVIDE 4" BOX, 1-GANG COVER, AND (1) 3/4" CONDUIT FOR DATA AND (1) 3/4" CONDUIT FOR TELEPHONE OUTLET, AND TERMINATE 6" ABOVE ACCESSIBLE CEILING SPACE.

NOTE B: PROVIDE WATTS/STOPPER OCCUPANCY SENSOR IAS-200 (WALL MOUNT) / CI-300 (CEILING MOUNT) WITH INTEGRAL MANUAL OVERRIDE SWITCH AND 15 MINUTE OFF FOR UNOCCUPIED MODE.

CAMPGROUND PERMIT BOOTH
 DNR FILE # 2-12-012
 ILLINOIS BEACH STATE PARK
 38303 N. ILLINOIS BEACH STATE PARK
 ZION, ILLINOIS

| | |
|------------|-----------------------|
| 11/05/2012 | ME REVIEW |
| 11/07/2012 | FINAL REVIEW |
| 12/9/2012 | ISSUED FOR PERMIT/BID |
| 12/6/2012 | NO CHANGES |

| | |
|------------|-----------------------|
| 11/05/2012 | ME REVIEW |
| 11/07/2012 | FINAL REVIEW |
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| 12/6/2012 | NO CHANGES |



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PROJECT NO. 112139
 PROJECT MGR. DRH
POWER AND LIGHTING PLAN
E2.1