CITY OF FORREST CITY

LARRY S. BRYANT HEALTH AND WELLNESS CENTER EXPANSION / AQUATIC CENTER

MAYOR

LARRY BRYANT

PARKS AND RECREATION DIRECTOR

KENNETH TAYLOR

CITY COUNCIL

ARDELIA ECHOLS
DANNY CAPPS
CHRIS OSWALT
STEVE HOLLOWELL
LOUISE FIELDS
ROGER BREEDING
RONALD WILLIAMS
OZAREE TWILLIE

JULY 29, 2016

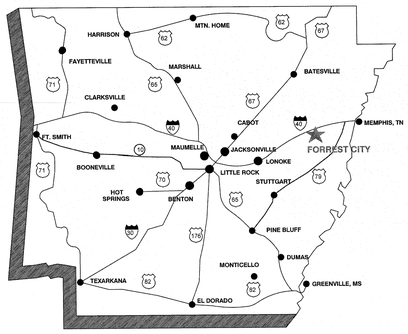
ETC ENGINEERS & ARCHITECTS, INC.

Environmental Technical Consultants, Inc.

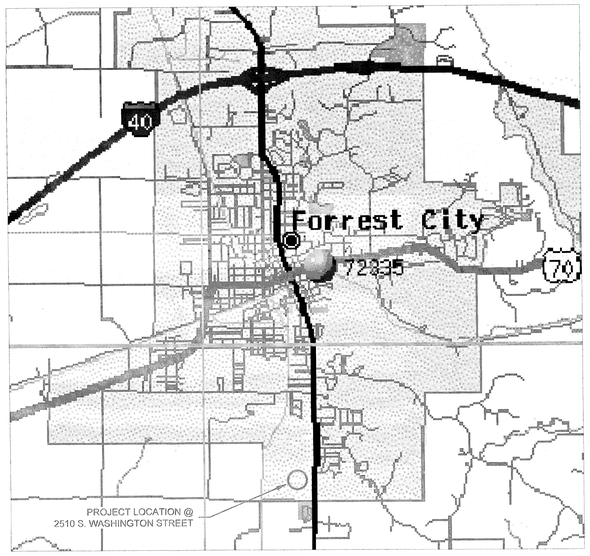
DESIGN & ENVIRONMENTAL CONSULTANTS AND CONSTRUCTION MANAGERS

BUILDING A BETTER WORLD

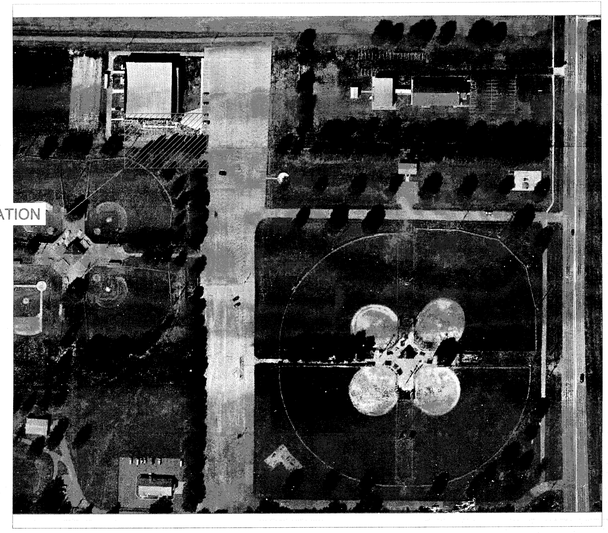
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277
E-mail: ETC @ etcengineersinc.com - Web Site: www.etcengineersinc.com



STATE MAP



CITY MAP



VICINITY MAP

GENERAL NOTES

GENERAL NOTES:

1. THE BIDDERS ARE ENCOURAGED TO VISIT THE SITE PRIOR TO BIDDING.
2. THE BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES AND ORDINANCES GOVERNING WORK OF THIS TYPE.
3. THE CONTRACTOR AWARDED CONTRACT SHALL BE SOLELY RESPONSIBLE FOR DAMAGE TO ANY EXISTING FACILITY(S) WHICH ARE TO REMAIN.
4. BENCH MARK HAS BEEN NOTED THROUGHOUT THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE TO LAYOUT/STAKE OUT WORK SHOWN ON THE PLANS.
5. ALL DISTURBED AREA SHALL BE RETURNED TO ORIGINAL CONDITION.
6. REFERENCES TO MANUFACTURE'S NAME AND MODEL IS TO ESTABLISH A BENCH MARK FOR PHYSICAL STANDARD AND PERFORMANCE QUALITY. THE CONTRACTOR CAN SUBSTITUTE THE PRODUCT WITH A PRODUCT BY OTHER VENDORS. HOWEVER THE CONTRACTOR MUST OBTAIN APPROVAL PRIOR TO SUCH SUBSTITUTIONS. SEE SPECIFICATIONS.

GENERAL SITE UTILITY CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES PRIOR TO ANY EXCAVATION. ANY DAMAGE TO UTILITY LINES CAUSED BY THE CONTRACTORS OPERATION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

GENERAL NOTE:
UTILITIES SHOWN WITHIN THE EXTENT OF CONSTRUCTION HAVE EITHER BEEN OBTAINED FROM AS-BUILT DRAWINGS OR ABOVE GROUND FEATURES SUCH AS FIRE HYDRANTS, VALVES, OR METERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE EXACT LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION BY CALLING ONE-CALL AT 1-800-482-8998. THE UTILITY LOCATION MARKING SHALL BE MAINTAINED UNTIL NO FURTHER EXCAVATION IS REQUIRED.

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998

ABBREVIATIONS

TP	TOP OF PAVEMENT
TC	TOP OF CURB
FL	FLOW LINE
FES	FLARED END SECTION

LEGEND TABLE

- SIDEWALK / DRIVEWAY CONCRETE
- EQUIPMENT AREA CONCRETE
- HEAVY TRAFFIC ASPHALT
- LIGHT TRAFFIC ASPHALT
- SOD AREA
- PROPERTY BOUNDARY LINE
- xxxx PROPOSED CONTOUR
- xxxx EXISTING CONTOUR
- PROPOSED DITCH LINE
- SILT FENCE
- F.E.S. WITH RIP-RAP
- 2", 4", 6", 8" or 10" W — WATER MAIN
- FIRE HYDRANTS
- WATER VALVES
- FM — 2", 4", 6", 8" or 10" — FORCEMAIN PIPING
- LIFT STATION MANHOLE
- ROAD ALIGNMENT CENTERLINE
- CURB AND GUTTER
- SITE LIGHTING

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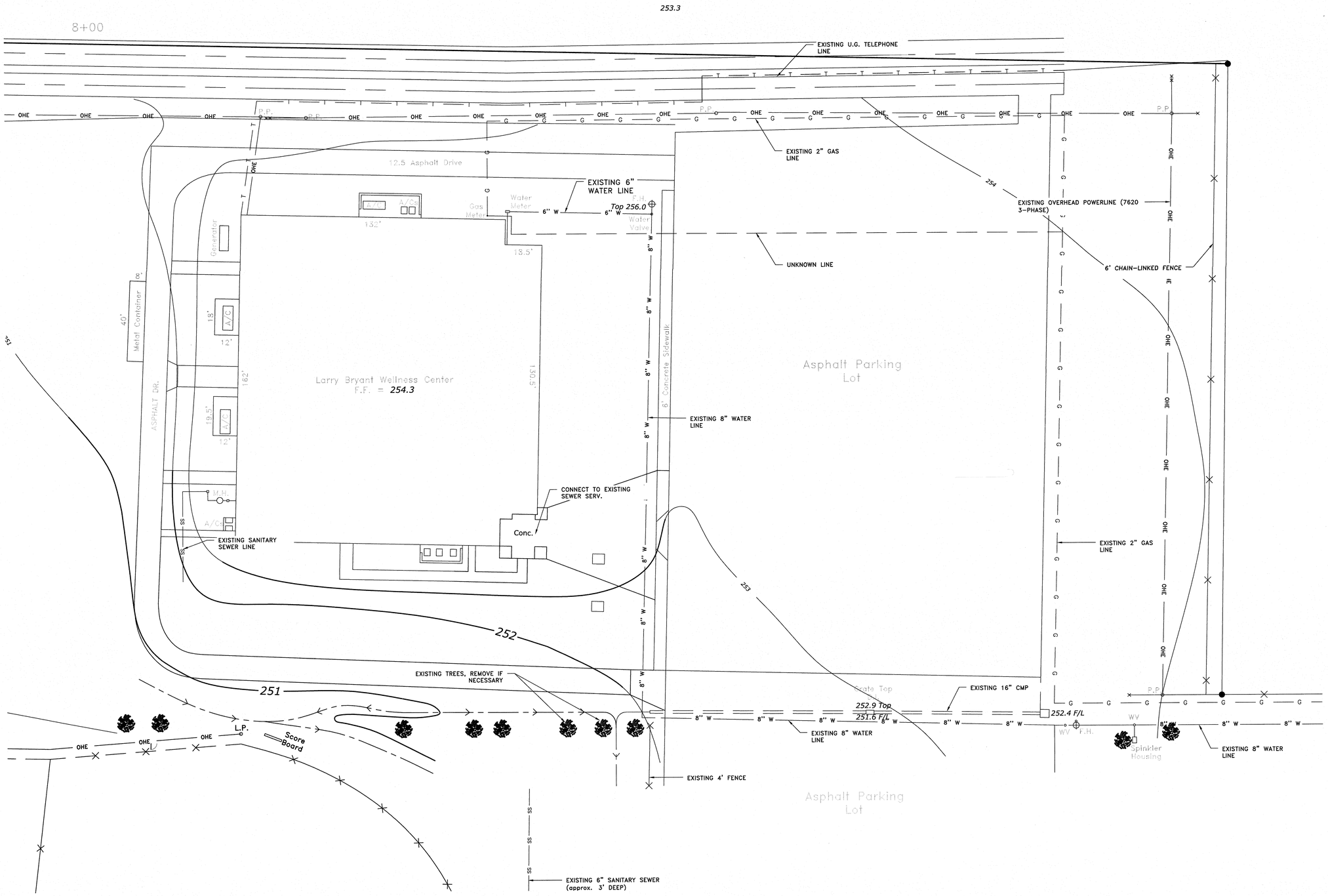
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EXPANSION/AQUATIC CENTER
FORREST CITY, AR

ISSUE / DATE	
7/29/2016	CONSTRUCTION DOCUMENTS
DATE	DESCRIPTION

PROJECT NO. 163901 CFC
PROJECT PHASE CONSTRUCTION DOCUMENTS
DRAWN BY: CHECKED BY:

INDEX AND LOCATION MAPS

I



20 10 0 20

SCALE: 1" = 20'

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MTA Engineers
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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 12940 — SHAHKAT M. ALI — 08-16-2016

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LARRY S. BRYANT HEALTH AND WELLNESS CENTER EXPANSION/AQUATIC CENTER

FORREST CITY, AR

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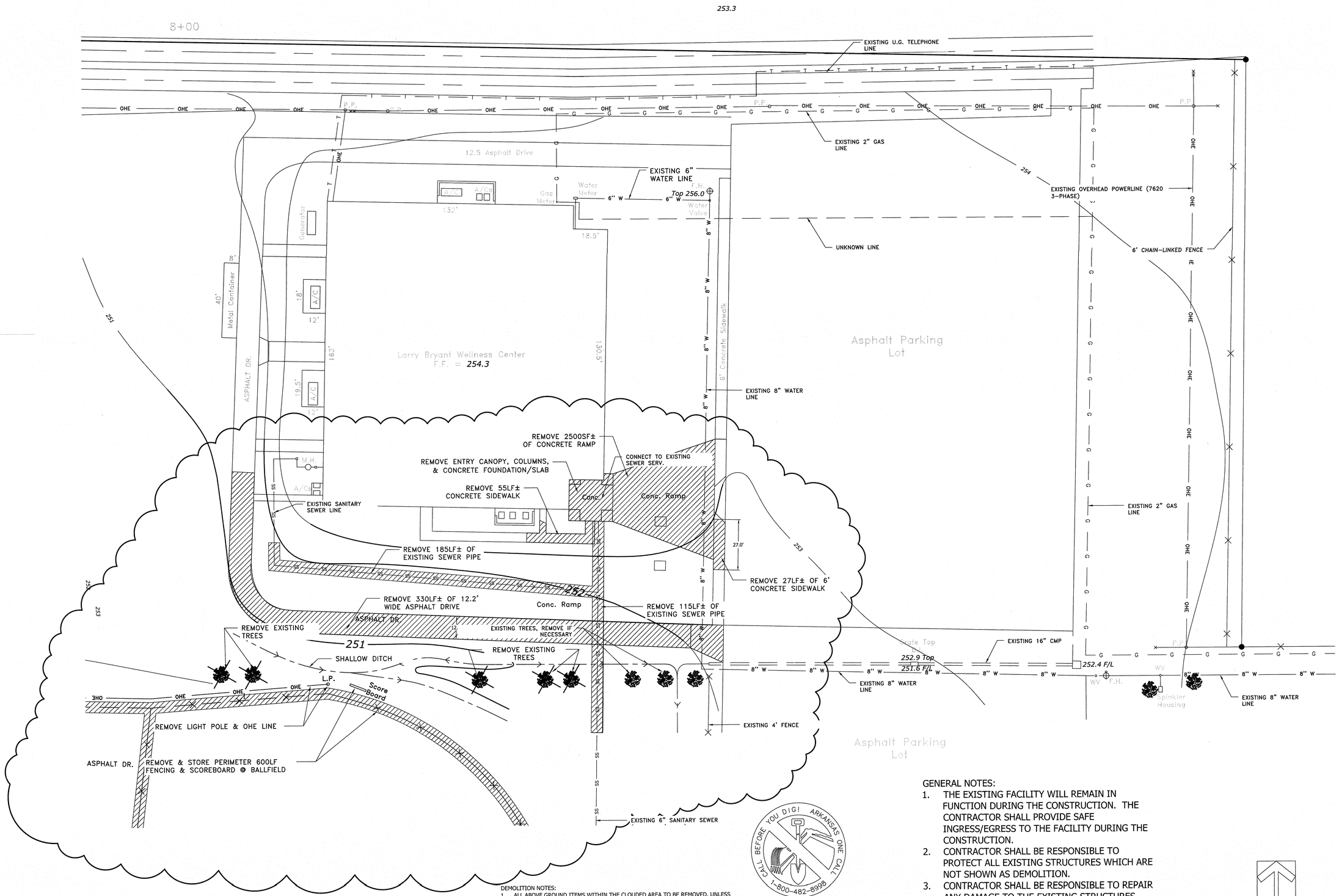
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PROJECT PHASE: CONSTRUCTION DOCUMENTS

DRAWN BY: DH — CHECKED BY: SA

EXISTING SITE PLAN

C1.0



DEMOLITION NOTES:

1. ALL ABOVE GROUND ITEMS WITHIN THE CLOUDED AREA TO BE REMOVED, UNLESS OTHERWISE NOTED ON THE PLAN .
2. ITEMS DEMOLISHED SHALL BE RETURNED TO THE CITY PARKS DEPARTMENT FOR REUSE, UNLESS DETERMINED TO BE UNSALVAGEABLE OR UNSAFE TO RE-USE. ALL OTHER DEMOLISHED MATERIALS ARE TO BE HAULED OFF SITE AND DISPOSED OF BY THE CONTRACTOR.
3. SURVEY PROVIDED SHOWS ABOVE GROUND UTILITIES AND FEATURES IN THE PROJECT AREA. CONTRACTOR IS HOWEVER RESPONSIBLE TO HAVE ONE-CALL MARK UTILITY LOCATIONS AND TO CAUTION WHEN DEMOLISHING OR EXCAVATING WITHIN THE PROJECT AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGED UTILITIES NOT MARKED ON DEMOLITION PLAN FOR REMOVAL TO RESTORE SAID UTILITIES TO WORKING CONDITION.
4. USE **EXTREME** CAUTION, THERE ARE UNDER-GROUND ELECTRICAL SERVICE LINES WITHIN THE CONSTRUCTION AREA.

CALL BEFORE YOU DIG! ARKANSAS ONE CALL 1-800-482-8998

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GENERAL NOTES:

1. THE EXISTING FACILITY WILL REMAIN IN FUNCTION DURING THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SAFE INGRESS/EGRESS TO THE FACILITY DURING THE CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING STRUCTURES WHICH ARE NOT SHOWN AS DEMOLITION.
3. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE TO THE EXISTING STRUCTURES.
4. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR CONSTRUCTION ENTRANCE, STORAGE, AND STAGING AREA.

NORTH

20 10 0 20
SCALE: 1" = 20'

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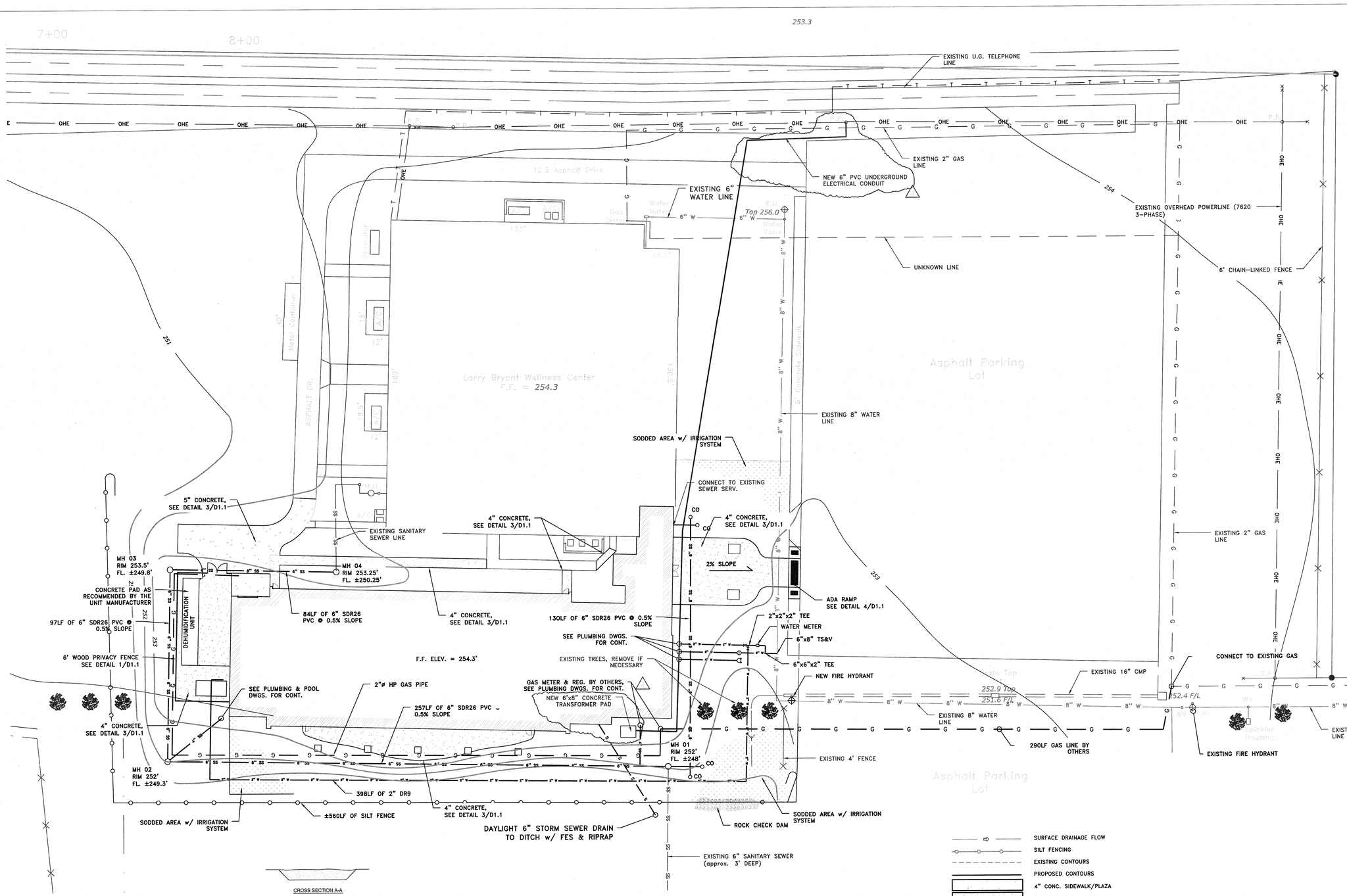
FORREST CITY, AR

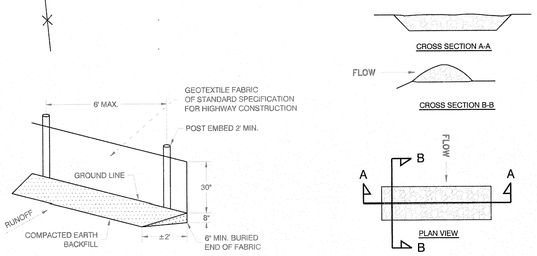
ISSUE / DATE	
DATE	DESCRIPTION

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DRAWN BY: DH CHECKED BY: SA

DEMOLITION PLAN

C1.1





1 SILT FENCE
N.T.S.

2 CHECK DAM DETAIL
N.T.S.

NOTES.

1. HAVE THE EROSION CONTROL PLAN AVAILABLE ON-SITE.
2. INSTALL STONE CHECK DAMS AS SHOWN ON PLAN. DETAIL 2 THIS SHEET.
3. USE MULCHES ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHEN THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN REASONABLE TIME.
4. USE MULCHES ON CLEARED AREAS WHERE SOIL EROSION IS LIKELY TO OCCUR.
5. USE MULCH WITH TEMPORARY SEEDING
6. HYDRO SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED ON PLAN.
7. SODDED AREAS TO BE IRRIGATED (±1800 SY). CONTRACTOR TO SUPPLY IRRIGATION PLAN FOR APPROVAL.
8. CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OUTLINED IN THE GEO-TECHNICAL REPORT
9. DURING THE CUT & FILL PROCESS VOID/LOOSE SPACE MAY BE FOUND. REMOVE ALL LOOSE MATERIALS IN AND AROUND THE VOID/ LOOSE SPACE. FILL THE SPACE WITH COMPACTED SELECT FILL MATERIAL.
10. ALL CUT AND FILL AREAS SHALL BE COVERED WITH MINIMUM OF 6" OF TOP SOIL. (SEE DEFINITION IN THE SPECIFICATIONS).
11. CONTRACTOR SHALL COORDINATE w/ ENGINEER TO FIELD LOCATE THE CONCRETE WASHOUT AREA.

UTILITY NOTES:

1. POTABLE WATER SERVICE LINES, FIRE HYDRANT, WATER METER, & SEWER SERVICE LINES ARE BY OTHERS.
2. SEWER & WATER TIE IN TO EXISTING MAIN BY OTHERS.
3. WATER LINE FOR FIRE PROTECTION INCLUDING FIRE PROTECTION FIXTURES ARE IN THIS CONTRACT.
4. ALL MATERIALS AND CONSTRUCTION METHODS FOR WATER AND SANITARY SEWER WORK SHALL COMPLY WITH CITY OF FORREST CITY STANDARD CONSTRUCTION SPECIFICATION, WATER & WASTEWATER FACILITIES, REVISED OCTOBER 18, 2013
5. WATER & SEWER PIPES SHALL BE IN THE SIZE INDICATED ON THE PLAN. WATER MAINS SHALL HAVE A MIN. COVER OF 36" w/ A MIN. 10' HORIZONTAL SEPARATION & MIN. 18" VERTICAL SEPARATION FROM SANITARY SEWER

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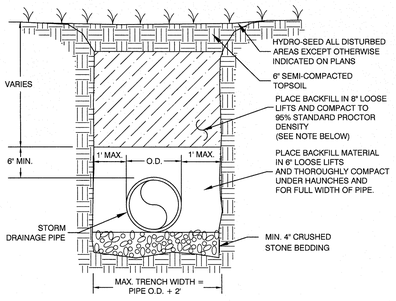
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FORREST CITY, AR

ISSUE / DATE	
ADDENDUM 4	4-4-2017
DATE	DESCRIPTION

PROJECT NO. 163901 CFC
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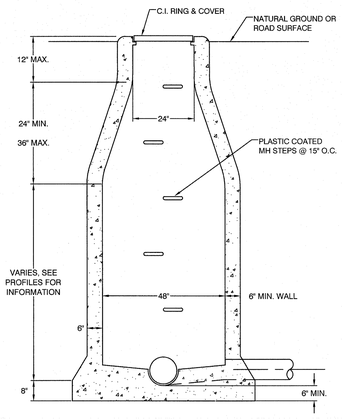
SITE GRADING/ UTILITY PLAN

C1.2

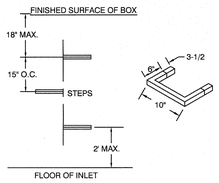


4A **STORM PIPE TRENCH**
N.T.S.

NOTE : MANHOLES MAY BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE OR POURED IN PLACE CONCRETE.



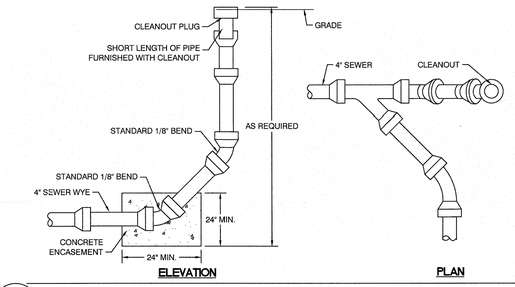
9A **MANHOLE DETAIL**
N.T.S.



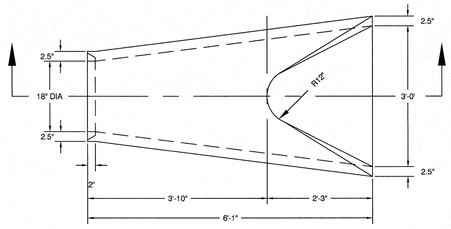
MANHOLE STEPS SPECIFICATION:

1. MANHOLE STEPS: CORROSION RESISTANT, COATED, AND REINFORCED WITH STEEL PER ASTM C-478. STEEL REINFORCING MINIMUM 1/2" DIAMETER.
2. ACCEPTABLE MANUFACTURERS:
   A. UTILITY PRODUCTS INC. PERMA STEP 100 - 2
   B. ICM INC. POLYPROPYLENE COATED STEPS
   C. M.A. INDUSTRIES, INC. POLYPROPYLENE COATED STEPS #PSI-PF
   D. BOWCO, BY H. BOWMAN CO.
3. CAPABLE OF SUPPORTING MINIMUM 300 LB. LOAD
4. NON-SLIP TEXTURED TREADS.
5. REQUIRED IN ALL STRUCTURES 3'-0" DEEP OR DEEPER.

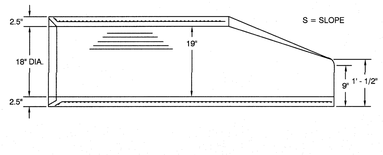
12A **MANHOLE STEPS**
N.T.S.



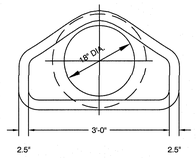
15A **CLEANOUT DETAIL**
N.T.S.



PLAN VIEW



SECTION VIEW

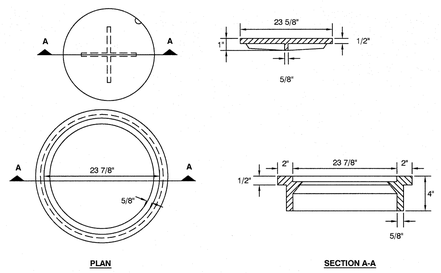


END VIEW

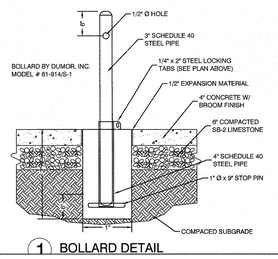
6 **FLARED END SECTION**
N.T.S.

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7

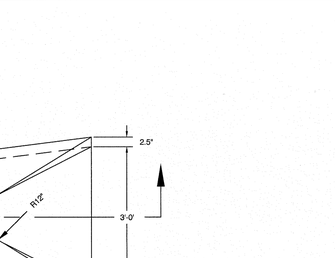


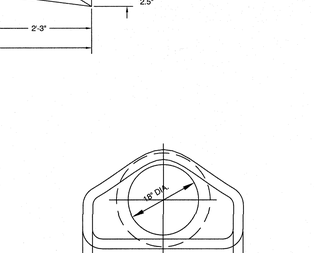
8 **TYPE 1 RING & COVER**
N.T.S.

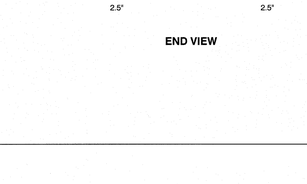


1 BOLLARD DETAIL

15E **BOLLARD DETAIL**
N.T.S.

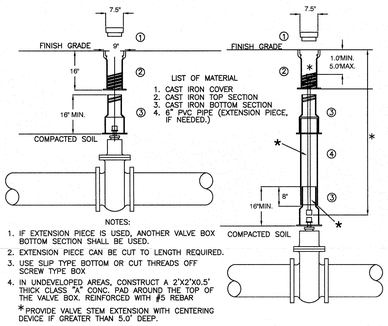






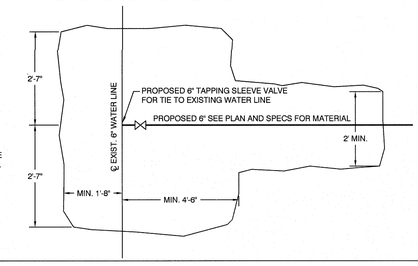
BEARING AREA OF BLOCK IN SQ. FT.					
FITTING SIZES	TEE AND END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6"	3.6	5.4	2.5	1.5	0.8
8"	6.3	8.9	4.8	2.5	1.3
10"	9.9	13.9	7.6	3.9	2.0
12"	14.2	20.0	10.9	5.6	2.8

5 **THRUST BLOCKING**
N.T.S.



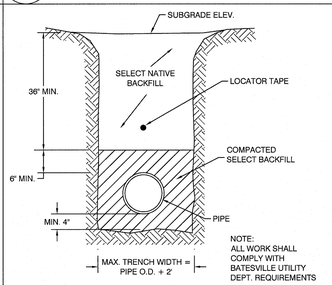
1 **GATE VALVE DETAIL**
N.T.S.

CONNECTION TO EXISTING WATER MAIN

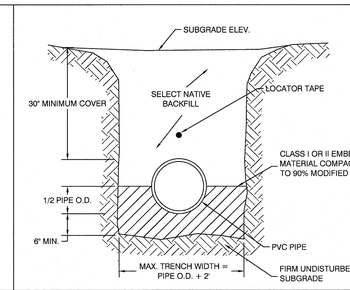


NOTE:
1'-0" BELOW PIPE FLOW LINE CONTRACTOR TO MAKE ALL EXCAVATION.

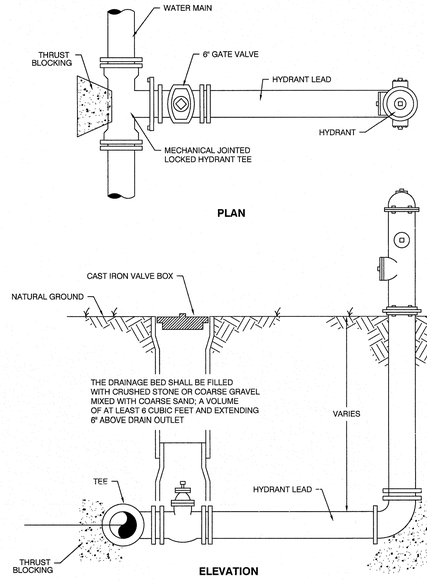
2 **WATER CONNECTION TO EXISTING MAIN**
N.T.S.



3A **WATER LINE TRENCH**
N.T.S.



3B **SEWER LINE TRENCH**
N.T.S.



4 **FIRE HYDRANT ASSEMBLY**
N.T.S.

GEOTECHNICAL ENGINEER
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Little Rock, AR 72221
Ph. 501.753.2526
Fax 501.753.5747

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 12940 — SHAVIKA T. M. ALI — 08-16-2016

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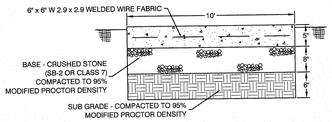
LARRY S. BRYANT
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FORREST CITY, AR

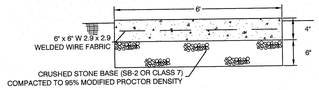
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DATE	DESCRIPTION

PROJECT NO. 163901 CFC
PROJECT PHASE CONSTRUCTION DOCUMENTS
DRAWN BY: DH
CHECKED BY: SA

DETAILS

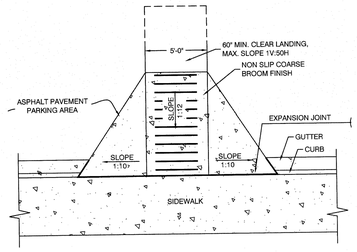
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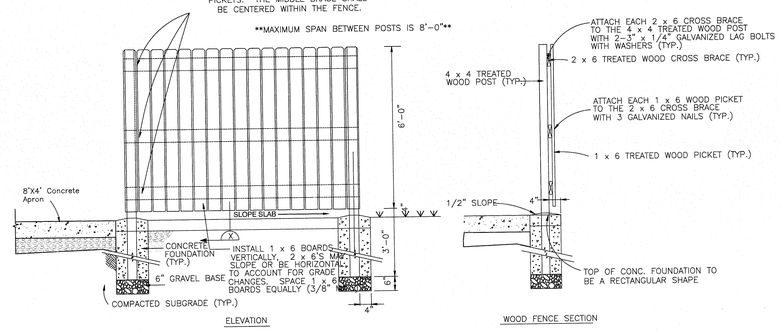
3 CONCRETE DRIVE/PLAZA DETAILS

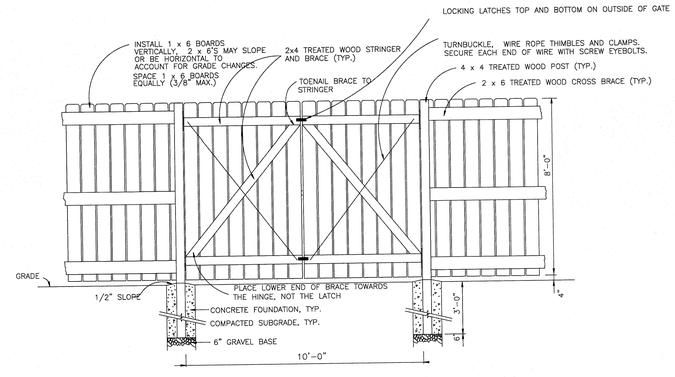
SCALE= N.T.S.



SCALE= N.T.S.

4 RAMP DETAIL

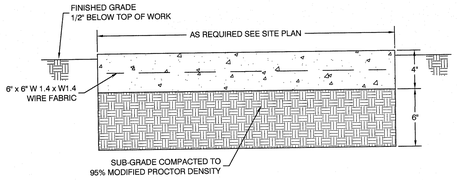




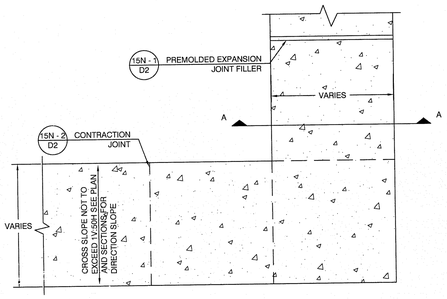
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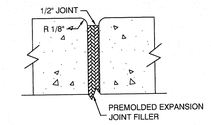
SCALE= N.T.S.

NOTES:
1. EXPANSION JOINT SPACING SHALL BE 50'
2. SAW CUT TRANSVERSE CONTRACTION JOINTS AND CONSTRUCTION JOINTS SHALL BE SPACED THE SAME WIDTH AS THE WALK (5' MAX.)
3. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1/4" PER FT. IN THE DIRECTION OF SURFACE DRAINAGE IN THE AREA, UNLESS INDICATED OTHERWISE.
4. PROVIDE EXPANSION JOINTS FULL DEPTH AGAINST ANY EXISTING OR PROPOSED CURB, STRUCTURE, SLAB OR WALK.
5. FOR DRIVEWAYS OR LARGE PADS, PLACE SAW CUT JOINTS, EVENLY SPACED AT 10' MIN. TO 15' MAX SPACING.
6. ALL BREAKS IN CONCRETE POURING WHERE THERE BE FUTURE POURING, COLD JOINTS, SHALL HAVE "KEY-WAY" FORMED INTO THE JOINT.

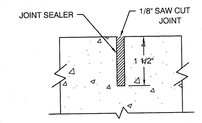


SECTION A-A

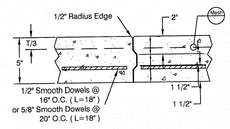




DETAIL 1 - EXPANSION JOINT



DETAIL 2 - SAW CUT JOINT



DETAIL 3 - Cold Joint (KEY)

2 SIDEWALK DETAILS

N.T.S.

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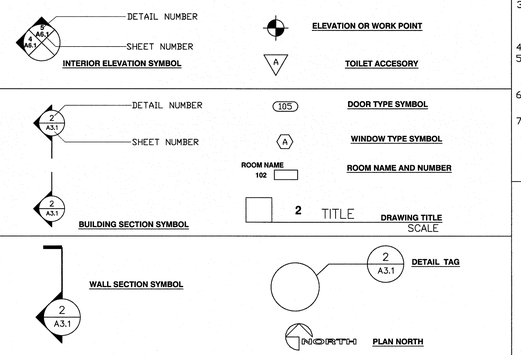
DETAILS

D1.1

ABBREVIATIONS

ABV	ABOVE
AC	AIR CONDITIONING
ADDL	ADDITIONAL
AFF	ABOVE FINISH FLOOR
ACOUST	ACOUSTICAL
ALT	ALTERNATE
ASPH	ASPHALT
BC	BACK OF CURB
BD	BOARD
BRG	BEARING
BM	BENCH MARK, BEAM
BLK	BLOCK
BLKG	BLOCKING
BRKR	BREAKER
BLDG	BUILDING
BUR	BUILT-UP ROOFING
CLG	CEILING
CT	CERAMIC TILE
CB	CHALK BOARD
CG	CORNER GUARD
CI	CAST IRON
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CLR	CLEAR
COL	COLUMN
CJ	CONTROL JOINT
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACTOR
CORR	CORRIDOR
DET	DETAIL
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER, DISPOSAL
DR	DOOR
DS	DOWNSPOUT
DG	DOOR GRILLE
DTL	DETAIL
EA	EACH
ED	EMERGENCY DRAIN
ELEV	ELEVATION, ELEVATOR
ELEC	ELECTRIC
EWC	ELECTRIC WATER COOLER
EMER	EMERGENCY
EQ	EQUAL
EXIST	EXISTING
EJ	EXPANSION JOINT
EXP	EXPOSED
EXT	EXTERIOR
FIN	FINISH
FHC	FIRE HOSE CABINET
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FF	FINISH FLOOR
FHB	FROST-PROOF HOSE BIBB
FCO	FLOOR CLEANOUT
FL	FLOW LINE
FLR	FLOOR (ING)
FR	FRAME
FRMG	FRAMING
FT	FOOT, FEET
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GLASS, GLAZING
GB	GRAB BAR
GYP BD	GYPSUM WALL BOARD
HB	HOSE BIBB
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR-CONDITIONING
HR	HANDRAIL
HT	HEIGHT
HDCP	HANDICAP
HM	HOLLOW METAL
HOR	HORIZONTAL
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
MH	MANHOLE
MAN'F	MANUFACTURE
MO	MASONRY OPENING
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MC	MEDICINE CABINET
MET	METAL
MCB	METAL CORNER BEAD
MT	METAL THRESHOLD
MIL	MILLIMETER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MTL	METAL
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OH	OVERHEAD, OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
PVMT	PAVEMENT
PERF	PERFORATE
PL	PLATE
PLBG	PLUMBING
PLAS	PLASTIC
PR	PAIR
PLYWD	PLYWOOD
PVC	POLYVINYL CHLORIDE
PREFIN	PREFINISHED
PROV	PROVIDE
PSF	POUNDS/SQUARE FOOT
PSI	POUNDS/SQUARE INCH
PL	PROPERTY LINE
QT	QUARRY TILE
R	RANGE, RADIUS
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
REFR	REFRIGERATOR
RA	RETURN AIR
REQ'D	REQUIRED
RET	RETAINING
REV	REVISION, REVISED
ROW	RIGHT OF WAY
RD	ROOF DRAIN
RM	ROOM
RO	ROUGH OPENING
SA	SUPPLY AIR
SHLVG	SHELVING
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SC	SOLID CORE
SCHED	SCHEDULE
SPEC'D	SPECIFICATION/SPECIFIED
SQ	SQUARE
STD	STANDARD
STL	STEEL
STSTL	STAINLESS STEEL
STO	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPENDED
SY	SQUARE YARD
TB	TACK BOARD
TEL	TELEPHONE
TEMP	TEMPERED, TEMPORARY
THRESH	THRESHOLD
THK	THICK
TLT	TOILET
T&G	TONGUE
TJ	TOOLED JOINT
TOG	TOP OF GRATE FRAME
TOS	TOP OF SLAB, TOP OF STEEL
TOW	TOP OF WALL
TRTD	TREATED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VERT	VERTICAL
VES	VINYL EDGE STRIP
VOJ	VERIFY ON JOB
VTR	VENT THRU ROOF
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
W/	WITH
WAINS	WAINSCOT
WC	WATER CLOSET
WG	WALL GUARD
WP	WATERPROOFING,
WWF	WELDED WIRE FABRIC
W/O	WITHOUT
WD	WOOD
WH	WATER HEATER

SYMBOL LEGEND



PROJECT:

LARRY S. BRYANT HEALTH AND WELLNESS CENTER EXPANSION/AQUATIC CENTER FORREST CITY, ARKANSAS

OWNERSHIP OF DOCUMENTS

THIS DOCUMENT, AND THE DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF ETC ENGINEERS AND ARCHITECTS, AND IS NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF ETC ENGINEERS AND ARCHITECTS.

CURRENT APPLICABLE CODES: CURRENT APPLICABLE STATE CODES IN ARKANSAS

FIRE PREVENTION CODE	–	2012	ARKANSAS FIRE PREVENTION CODE, VOLUME I
BUILDING CODE	–	2012	ARKANSAS FIRE PREVENTION CODE, VOLUME II
RESIDENTIAL CODE	–	2012	ARKANSAS FIRE PREVENTION CODE, VOLUME III
ELECTRICAL CODE	–	2011	NATIONAL ELECTRIC CODE, NFIPA 70–1996
PLUMBING CODE	–	2006	ARKANSAS STATE PLUMBING CODE
GAS CODE	–	2006	ARKANSAS STATE GAS CODE
LIQUIFIED PETROLEUM GAS CODE	–	2009	LIQUID PETROLEUM GAS CONTAINERS AND EQUIPMENT
MECHANICAL CODE	–	2010	ARKANSAS MECHANICAL CODE
ENERGY CODE	–	2009	NA

FEDERAL FUNDS: THERE IS NO FEDERAL FUNDING ON THIS PROJECT.
ROJECT LOCATION: FORREST CITY, ARKANSAS

NOTES

1. ALL ADA TOILETS SHALL BE PROVIDED WITH GRAB BARS.
2. A PANIC BAR RELEASING DEVICE SHALL BE PROVIDED FOR ALL REQUIRED EXIT DOORS.
3. FIRE AND SMOKE WALLS SHALL BE LABELED AS SUCH WITH THREE INCH TALL PAINTED BLACK LETTERS ABOVE THE CEILING ON BOTH SIDES OF THE WALL WITHIN EACH ROOM THAT ADJOINS SAID WALL AND AT TWENTY FOOT SPACING FOR ROOMS LARGER THAN TWENTY FEET IN ONE DIMENSION.
4. ALL ACCESS PANELS SHALL BE A MINIMUM OF 2'-0" HIGH 2'-6" LONG.
5. ALL FLOOR FINISHES SHALL BE COMPLETELY FLUSH. CONTRACTOR TO USE FLOOR LEVELING MATERIALS AS REQUIRED TO MAKE ALL NECESSARY ALIGNMENTS. TAPER THINNER FLOOR MATERIAL 1/16" PER FOOT MAXIMUM.
6. THIS PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH ALL SEISMIC LOADS FOR ITS ZONE.
7. FIXED EQUIPMENT ROUGH-IN INFORMATION SHOWN IS INTENDED TO ESTABLISH SCOPE OF WORK ONLY. INFORMATION SHOWN SHALL BE VERIFIED WITH OWNER'S VENDOR INSTALLATION DOCUMENTS PRIOR TO CONSTRUCTION.
8. ALL DIMENSIONS SHOWN ARE NOMINAL. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR PROPER FIT.

NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS AND WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THEIR DEPICTED LOCATION ON THESE DRAWINGS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN, AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS BY VERIFICATION OF THEIR LOCATION IN THE FIELD PRIOR TO THE INITIATION OF THE ACTUAL PORTION OF THEIR WORK.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. AND BRACING OF ALL IN PLACE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ARCHITECT IS TO CONDUCT CONSTRUCTION OBSERVATION OF THE CONTRACTOR'S PERFORMANCE AND IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, OR NEAR THE CONSTRUCTION SITE.

CODE DATA

DESIGN BASIS: THE ARKANSAS FIRE PREVENTION CODE, 2012 EDITION BASED ON 2012 INTERNATIONAL FIRE CODE

STATEMENT:
I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS.

OCCUPANCY CLASSIFICATION(S) + ALLOWABLE AREAS:
OCCUPANCY TYPE: PER 303.5: ASSEMBLY GROUP A4-SWIMMING POOLS WITH SPECTATOR SEATING

THE BUILDING IS SURROUNDED BY YARDS AND PUBLIC WAYS IN EXCESS OF 30' AROUND 96% OF THE PERIMETER OF THE BUILDING

CONSTRUCTION TYPE II-B PER TABLE 601 AND 602.2, ONE STORY (MAX. HEIGHT = 25'-0")

AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT PER 903.3.1.1

PER 503 THE MAXIMUM AREA OF THE BUILDING IS 9500 S.F.
THE MAXIMUM HEIGHT IS 55 FEET (2-STORIES)

THE BUILDING SHALL HAVE AN AUTOMATIC FIRE SUPPRESSION SYSTEM THROUGHOUT AND THUS, WITHOUT CONSIDERING FRONTAGE INCREASES, THE ALLOWABLE AREA MAY BE INCREASED AN ADDITIONAL 300% AND THE MAXIMUM ALLOWABLE AREA = 28,500 S.F.

ACTUAL SQUARE FOOTAGE PROPOSED: AREA OF BUILDING SOUTH OF THE 2-HOUR FIREWALL = 15,625 S.F.
AREA OF NEW ADDITION ADDED TO THE EXISTING BUILDING: 186 S.F.

TOTAL AREA OF NATATORIUM (INCLUDING PARTY ROOMS): 11,485 S.F.

PER TABLE 705.8 THE MAXIMUM AREA OF UNPROTECTED OPENINGS IN EXTERIOR WALLS OF A BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM PER 903.3.1.1 IS UNLIMITED

FIRE EXTINGUISHERS ARE REQUIRED PER 906.3.1 FOR CLASS A, LIGHT FIRE HAZARD

OCCUPANCY: ASSEMBLY GROUP A-4
TOTAL AREA: 19,085 S.F.
NUMBER OF STORIES: 1
MAXIMUM HEIGHT (AT PEAK): 25'-0"

OCCUPANCY CALCULATIONS PER ARKANSAS STATE HEALTH CODE SWIMMING POOL REGULATIONS:
INDOOR COMPETITION POOL: 4430 TOTAL SQUARE FEET
2896 S.F. UNDER 5.5' DEPTH
$\frac{1534}{30} + \frac{2896}{35} = 166$
THERAPY POOL: 1125 TOTAL SQUARE FEET
ALL UNDER 5.5' DEPTH
$\frac{1125}{25} = 45$
MAXIMUM OCCUPANT LOAD PER ARKANSAS HEALTH DEPT. SWIMMING POOL REGULATIONS: 211
SPECTATOR AREA = 912 S.F., OCCUPANT LOAD: 912 / 15 = 61 (PER IBC)

TOTAL OCCUPANT LOAD = 272

NUMBER OF EXITS REQUIRED PER 1015.1.1: 2
NUMBER OF EXITS PROVIDED: 5

MAXIMUM ALLOWABLE TRAVEL DISTANCE TO AN EXIT ACCESS PER TABLE 1016.2 = 200 FEET
MAXIMUM TRAVEL DISTANCE TO AN EXIT = 80'-0"

NUMBER OF PLUMBING FIXTURES REQUIRED PER TABLE 403.1 OF THE ARKANSAS PLUMBING CODE:

WATER CLOSETS: 1 PER 40 FOR WOMEN = 136 / 40 = 4
1 PER 75 FOR MEN = 136 / 75 = 2

LAVATORIES: 1 PER 150 FOR WOMEN = 1 1 PER 200 FOR MEN =1

SHOWERS FOR PARTICIPANT LOAD (PER ARKANSAS HEALTH CODE): 1 PER 40 FOR WOMEN = $\frac{120}{40} = 3$
1 PER 40 FOR MEN = $\frac{120}{40} = 3$

NUMBER OF WATER CLOSETS PROVIDED: WOMEN -4, MEN - 3 WATER CLOSETS, 1-URINALS

NUMBER OF LAVATORIES PROVIDED: WOMEN - 3, MEN - 3

NUMBER OF SHOWERS PROVIDED: WOMEN - 3, MEN - 3

1 DRINKING FOUNTAIN REQUIRED 1 PROVIDED
1 JANITOR'S SINK REQUIRED 2 PROVIDED

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REGISTERED ARCHITECTS — ETC Engineers & Architects, Inc. — No. C-462 — ARKANSAS

REGISTERED ARCHITECT — GERALD AVERY — License Number 4544 — STATE OF ARKANSAS — 8.10.16

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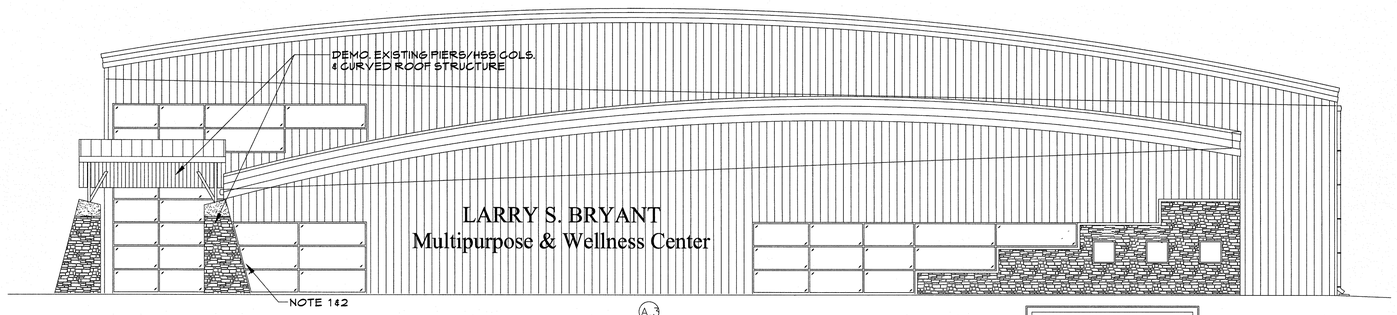
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FORREST CITY, AR

ISSUE / DATE	
C.D.	07 / 29 /2016
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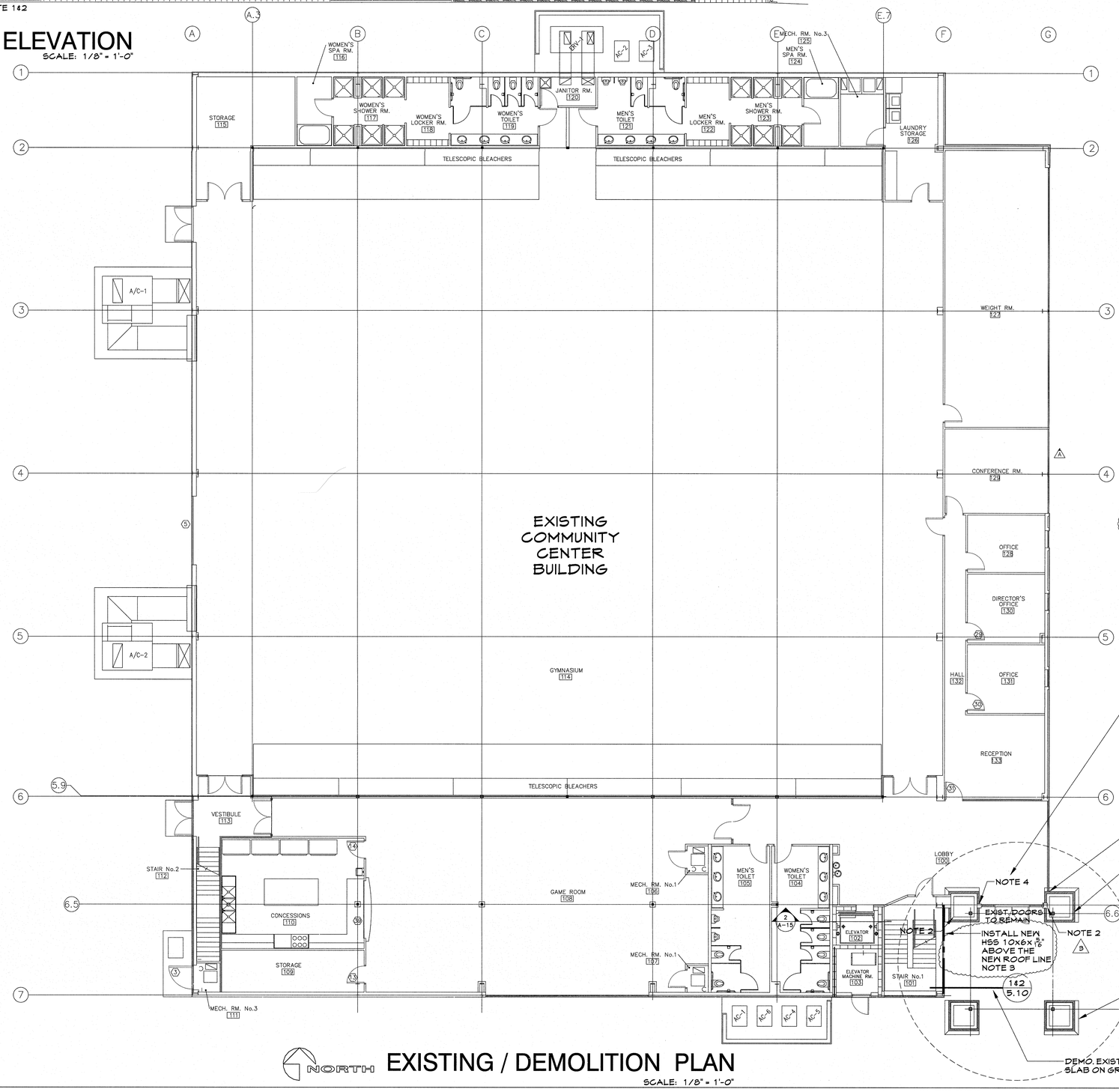
GENERAL INFORMATION

A0.0



EXISTING / WEST ELEVATION

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



EXISTING / DEMOLITION PLAN

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

NORTH

NOTES:

1. WHERE PIERS INTERSECT WITH BUILDING AND ARE PARTLY INSIDE & OUT, THE INTERIOR PORTION OF THE PIER MAY REMAIN IF POSSIBLE. WHERE STOREFRONT INTERSECTS PIER-PROVIDE NEW FRAMING AS REQUIREDTO MAINTAIN PROFILE OF WINDOW.
2. PROVIDE NEW METAL SIDING PANELS AND TRIM TO MATCH EXISTING AS REQUIRED AFTER PIERS HAVE BEEN REMOVED.
3. WHERE NEW ROOF INTERSECTS EXISTING STOREFRONT @ EXIST. STAIRS-REMOVE THAT PORTION OF ALUM. FRAMING & GLAZING AFFECTED, INSTALL NEW HSS 10x6x5/16" AND NEW SILL FRAME - INFILL WITH NEW METAL STUD FRAMING & PLYWOOD SHEATHING SO THAT THE NEW ROOF MAY BE FLASHED AGAINST A SOLID SURFACE & THE EXIST CURTAIN WALL SYSTEM WILL BE CAPABLE OF DRAINING ABOVE THE NEW ROOF SEE 2/A5.10.
4. ALONG THE RAKE SIDE OF THE NEW ROOF, REMOVE EXIST. METAL SIDING PANELS AS REQUIRED, FLASH THE NEW ROOF AGAINST THE EXIST. WALL, CUT THE EXIST. PANELS AS REQUIRED TO FIT OR INSTALL NEW METAL PANELS ABOVE THE NEW ROOF.
5. SEE SHEET A5.10.

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1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

LARRY S. BRYANT
HEALTH AND WELLNESS CENTER
EXPANSION/AQUATIC CENTER
FORREST CITY, AR

ISSUE / DATE	
C.D.	07 / 29 /2016
ADDENDUM 3 △3	04 / 03 /2017
DATE	DESCRIPTION

PROJECT NO. 163901 CFC
PROJECT PHASE CONSTRUCTION DOCUMENTS
DRAWN BY: CHECKED BY:

EXISTING/ DEMO. PLAN

A1.0

WALL TYPES

- 2x6 FRT WOOD FRAMING @ 16" O.C. w/½" PLYWD. SHEATH. MTL. SIDING PANELS/"DENSDECK" INTERIOR w/C.T. WAINSCOT
- 8x12x16" CMU PER STRUCTURAL DWGS.
- 8x8x16" CMU PER STRUCTURAL DWGS.
- 8x8x16" CMU PER STRUCTURAL DWGS. 2-HOUR FIREWALL
- ANOD. ALUM STOREFRONT SYSTEM (MATCH EXIST.) w/INSUL. GLASS GLAZING & ALUM. PANEL GLAZING RE: ELEVATIONS

EXISTING COMMUNITY CENTER BUILDING

EXIST. HVAC EQUIP. & SCREEN WALL TO REMAIN

2x6 NON-LOAD BEARING FRT WOOD FRAMING @ 16" O.C. w/½" PLYWOOD SHEATH. & MTL. SIDING

MIN. 24 GA. GALV. PAINTED GUTTER TYP. OF 5

157'-0"

3'-4" 13'-8" 3'-0"

HSS 7X4 PER S.D.

POOL EQUIPMENT & STORAGE 111

12" CMU

LIFEGUARD 110

FAMILY 2 112

JAN. 113

THERAPY POOL

NATATORIUM 109

COMPETITON POOL

COVERED PATIO 116

70'-0" CENTER OF COL. TO CENTER OF COL.

FOURED IN PLACE CONC. AROUND STL. COL. w/C.T. FINISH

12" CMU ABOVE

CMU SOAP AROUND STL. COLS. & BM. ABOVE

OFFICE 101

LOBBY 100

NEW COVERED ENTRANCE

2-HOUR FIREWALL

CONCOURSE 102

CONCESSION 107

JAN. 105

VESTIBULE 103

FAMILY 1 104

ELEC. 106

W 114

M 115

PARTY ROOM 108

12" CMU PIER

4" FRAME

8" CMU

CL OF COL.

FACE OF CMU

ENLARGED PLAN

NORTH FLOOR PLAN

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

GEOTECHNICAL ENGINEER

MTA Engineers
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REGISTERED ARCHITECTS — ETC Engineers & Architects, Inc. — No. C-462 — ARKANSAS

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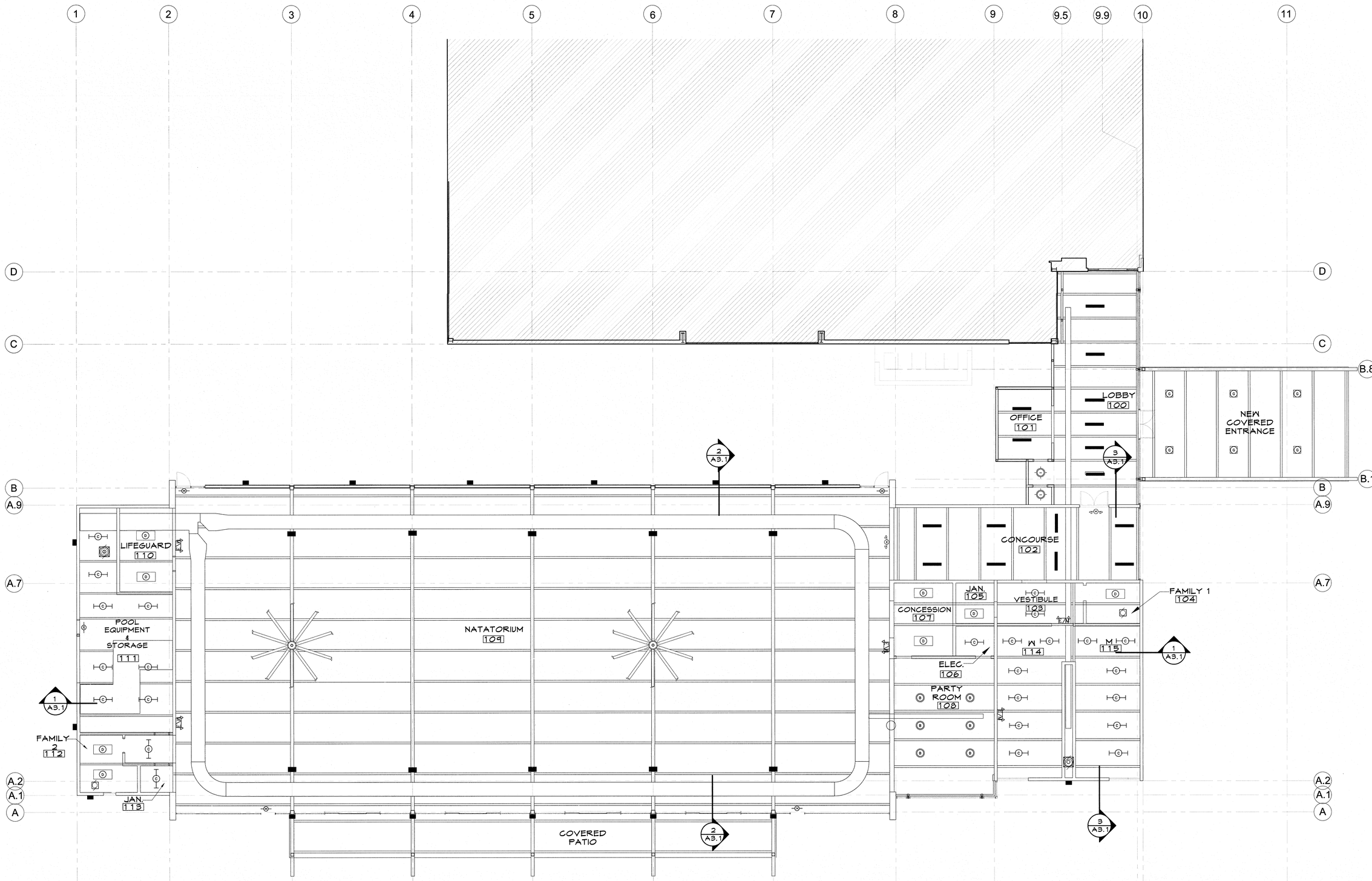
PROJECT NO. 163901 CFC

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FLOOR PLAN

A1.1



NORTH **REFLECTED CEILING PLAN**

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

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REGISTERED ARCHITECT — GERALD AVERY — License Number 4544 — STATE OF ARKANSAS — 8.10.16

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REFLECTED CEILING PLAN

A1.2

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1 2 3 4 5 6 7 8 9 9.5 9.9 10 11

D C B A.9 A.1 A

EXISTING COMMUNITY CENTER BUILDING

TAPERED FOAM BUILD UP @ CRICKETS TYP.

SINGLE PLY MIN. 50 MIL PVC MEMBRANE ROOFING O/COVER BOARD-"DENSDECK" OR EQUAL O/2" RIGID POLISIO. INSUL. O/1 ½" RIGID POLYISO INSUL. (STAGGER JOINTS) O/ SELF-ADHERED MOD. BIT. UNDER-LAYMENT O/ ½ PLYMD. SHEATH. O/1 ½" T&G SOLID WOOD DECKING

SINGLE PLY MIN. 50 MIL PVC MEMBRANE ROOFING O/COVER BOARD-"DENSDECK" OR EQUAL O/ ½ PLYMD. SHEATH. O/1 ½" T&G SOLID WOOD DECKING

6X6 24 GA. GALV. GUTTER

2 A3.1

3 A3.1

PARAPET WALL

EAVE

RAKE

PEAK

VALLEY

RIDGE

1/2:12

2:12

1:12

30°

THROUGH WALL SCUPPER & G.I. LEADER BOX TYP

11 A5.4

1 A3.1

3 A3.1

2 A3.1

SINGLE PLY MIN. 50 MIL PVC MEMBRANE ROOFING O/COVER BOARD-"DENSDECK" OR EQUAL O/2" RIGID POLISIO. INSUL. O/1 ½" RIGID POLYISO INSUL. (STAGGER JOINTS) O/ SELF-ADHERED MOD. BIT. UNDERLAYMENT O/ ½ PLYMD. SHEATH. O/1 ½" T&G SOLID WOOD DECKING

TAPERED FOAM BUILD UP @ CRICKETS TYP.

THROUGH WALL SCUPPER & G.I. LEADER BOX TYP OF 8

B.8 B.1 A.9 A.7 A.2 A.1 A

NORTH

ROOF PLAN

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

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ROOF PLAN

A1.3

KEYNOTES

4.2 CONCRETE MASONRY UNITS SHALL BE MANUFACTURED BY ANTIQUE BRICK AND BLOCK OR EQUAL. PROJECT INCLUDES BOTH SPLIT FACE AND SMOOTH UNITS AS INDICATED. ALL UNITS SHALL BE INTEGRALLY COLORED. COLORS SHALL BE SELECTED BY THE ARCHITECT FROM MANF.'S STANDARD SELECTION. THE MORTAR COLOR SHALL MATCH THE CORRESPONDING BLOCK COLOR.

EXTERIOR BLOCK WALLS SHALL HAVE ALL CELLS NOT GROUTED INSULATED W/"CORE-FILL 500" AS SPECD.

5.1 EXPOSED GALV. STRUCTURAL STEEL PAINT PER SPECIFICATIONS

6.1 ¾" PLY WOOD SHEATHING O/2X6 FRT FRAMING @ 16" O.C.

6.18 P.T. GLU-LAM BEAM, GIRDER, OR PURLIN W/WIRE BRUSH FINISH & FACTORY APPLIED STAIN

7.2 BUILDING WRAP AS SPECIFIED

7.21 2" - HFC BLOWN TYPE CLOSED CELL POLYURETHANE FOAM INSULATION

7.4 MIN. 50 MIL SINGLE PLY PVC MEMBRANE ROOFING O/COVER BOARD O/2" RIGID POLYSIO. O/1 ½" RIGID POLYISO (STAGGER JOINTS) O/SELF-ADHERED MOD. BIT. UNDERLAYMENT O/ ¾" PLYND. O/1 ½" T&G SOLID WOOD DECKING

7.42 INSULATED COLORED ALUMINUM GLAZING PANELS- "THERMOLITE" BY "LAMINATORS INC." OR EQUAL. THREE COLORS ARE INDICATED: SIAM BLUE, BONE WHITE, AND PATINA GREEN

7.5 METAL WALL PANELS SHALL BE MIN. 24 GA. GALV. STEEL W/BAKED ON POLYESTER FINISH COAT. PANELS SHALL BE SYMMETRICAL RIB, EXPOSED FASTENER - MATCH EXIST.

7.6 METAL CAP FLASHING AT PARAPETS, METAL WALL PANEL TRIM, GUTTERS, DOWNSPOUTS, LEADER BOXES, AND GLB FLASHINGS, ALL ROOF TO WALL FLASHINGS, AND ETC. SHALL BE MIN. 24 GA. GALV. STEEL W/ BAKED ON POLYESTER FINISH COAT TO MATCH EXIST. MTL. TRIM & SIDING COLORS

8.3 "KAWNEER" AA 3900 THERMAL SLIDING GLASS DOORS(OR EQUAL) SLIDING GLASS DOORS-SET IN ALUM. FRAME TYP. OF 4

8.4 KAWNEER TRIFAB 451UT (OR EQUAL) (CENTER) SCREW SPLINE ASSEMBLY OUTSIDE GLAZED ALUM. FRAMING SYSTEM W/ 2"x4 ½" FRAMING MEMBERS DESIGNED FOR CENTER GLAZING APPLICATIONS W/ 1" INSULATED GLASS UNITS. FINISH OF ALUMINUM SHALL BE DARK BRONZE TO MATCH EXIST.

8.4.1 KAWNEER 1600 CURTAINWALL SYSTEM OR EQUAL (OCCURS AT ENTRANCE & SURROUNDING THE SLIDING GLASS DOORS)

8.5 ALUMINUM SINGLE HUNG WINDOW-EFCO OR EQUAL

8.8 INSULATED GLASS UNITS SHALL CONSIST OF: OUTER LITE- PPG SOLARGRAY, ½" AIRSPACE, INNER LITE-PPG SOLARBAN ON CLEAR (OR EQUAL) ALL GLASS SHALL BE TEMPERED WHERE REQUIRED BY CODE

8.9 "KAWNEER" 360 INSULGLAD - MED. STILE EXTERIOR ALUM./GLASS DOOR OR EQUAL W/EXIT DEVICE, CYLINDER LOCK & PULLS

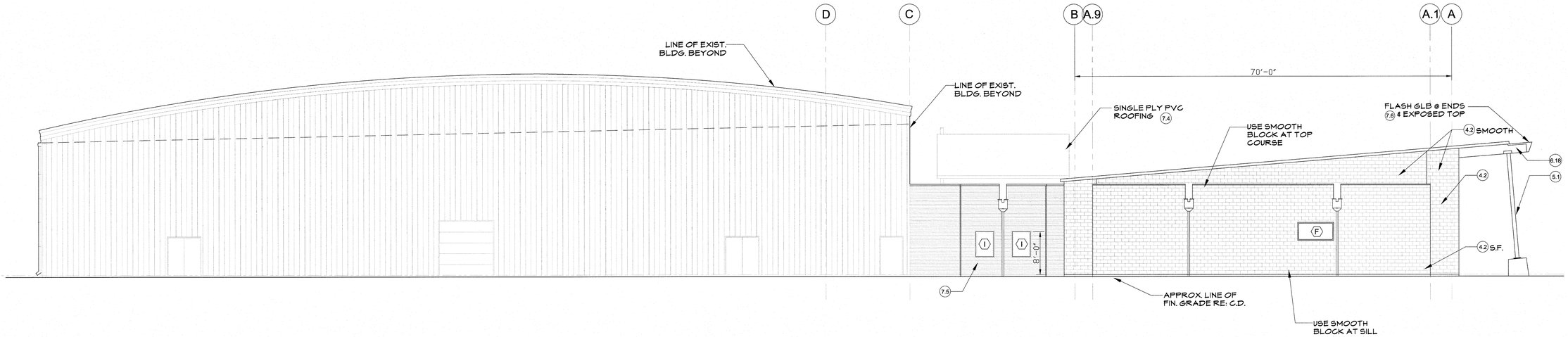
9.1 ½" "DENSSHIELD" (OR EQUAL) TILE BACKER BOARD APPLY MIN. 2" FIBERGLASS MESH TAPE AT ALL JOINTS, EMBED IN "STO FLEXYL" GROUND COAT OR EQUAL SKIM COAT THE ENTIRE SURFACE WITH "STO FLEXYL", & PRIME W/ "STO PRIMER", & PAINT W/EPOXY PAINT

9.2 SECOND LAYER- ½" "DENSSHIELD" (OR EQUAL) TILE BACKER BOARD APPLY O/FIRST LAYER W/THIN-SET MASTIC-CERAMIC TILE O/SECOND LAYER TO 5'-6" HEIGHT

7.42 - PATINA GREEN

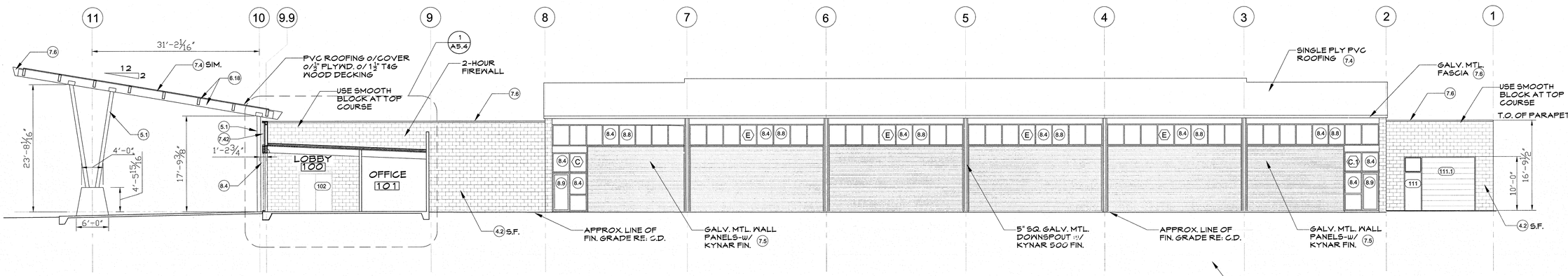
7.42 - SIAM BLUE

7.42 - BONE WHITE



WEST ELEVATION

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



NORTH ELEVATION/SECTION

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

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EXTERIOR ELEVATIONS

A2.1

KEYNOTES

4.2 CONCRETE MASONRY UNITS SHALL BE MANUFACTURED BY ANTIQUE BRICK AND BLOCK OR EQUAL. PROJECT INCLUDES BOTH SPLIT FACE AND SMOOTH UNITS AS INDICATED. ALL UNITS SHALL BE INTEGRALLY COLORED. COLORS SHALL BE SELECTED BY THE ARCHITECT FROM MANF.'S STANDARD SELECTION. THE MORTAR COLOR SHALL MATCH THE CORRESPONDING BLOCK COLOR.

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5.1 EXPOSED GALV. STRUCTURAL STEEL PAINT PER SPECIFICATIONS

6.1 ½" PLY WOOD SHEATHING O/2x6 FRT FRAMING @ 16" O.C.

6.18 P.T. GLU-LAM BEAM, GIRDER, OR PURLIN W/WIRE BRUSH FINISH & FACTORY APPLIED STAIN

7.2 BUILDING WRAP AS SPECIFIED

7.21 2" - HFC BLOWN TYPE CLOSED CELL POLYURETHANE FOAM INSULATION

7.4 MIN. 50 MIL SINGLE PLY PVC MEMBRANE ROOFING O/COVER BOARD O/2" RIGID POLYSIO. O/1 ½" RIGID POLYISO (STAGGER JOINTS) O/SELF-ADHERED MOD. BIT. UNDERLAYMENT O/ ¾" PLYND. O/1 ½" T&G SOLID WOOD DECKING

7.42 INSULATED COLORED ALUMINUM GLAZING PANELS- "THERMOLITE" BY "LAMINATORS INC." OR EQUAL. THREE COLORS ARE INDICATED: SIAM BLUE, BONE WHITE, AND PATINA GREEN

7.5 METAL WALL PANELS SHALL BE MIN. 24 GA. GALV. STEEL W/KYNAR 500 FINISH COAT. PANELS SHALL BE SYMMETRICAL RIB, EXPOSED FASTENER - MATCH EXIST.

7.6 METAL CAP FLASHING AT PARAPETS, METAL WALL PANEL TRIM, GUTTERS, DOWNSPOUTS, LEADER BOXES, AND GLB FLASHINGS, ALL ROOF TO WALL FLASHINGS, AND ETC. SHALL BE MIN. 24 GA. GALV. STEEL W/ KYNAR 500 FINISH COAT TO MATCH EXIST. MTL. TRIM & SIDING COLORS

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8.9 "KAWNEER" 360 INSULGLAD - MED. STILE EXTERIOR ALUM./GLASS DOOR OR EQUAL W/EXIT DEVICE, CYLINDER LOCK & PULLS

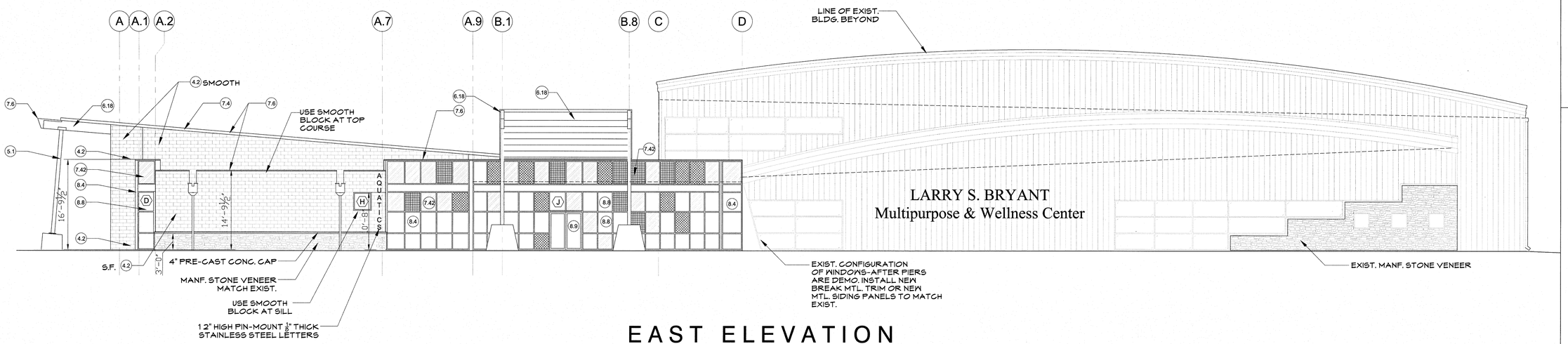
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9.2 SECOND LAYER- ⅝" "DENSSHIELD" (OR EQUAL) TILE BACKER BOARD APPLY O/FIRST LAYER W/THIN-SET MASTIC-CERAMIC TILE O/SECOND LAYER TO 5'-6" HEIGHT

7.42 - PATINA GREEN

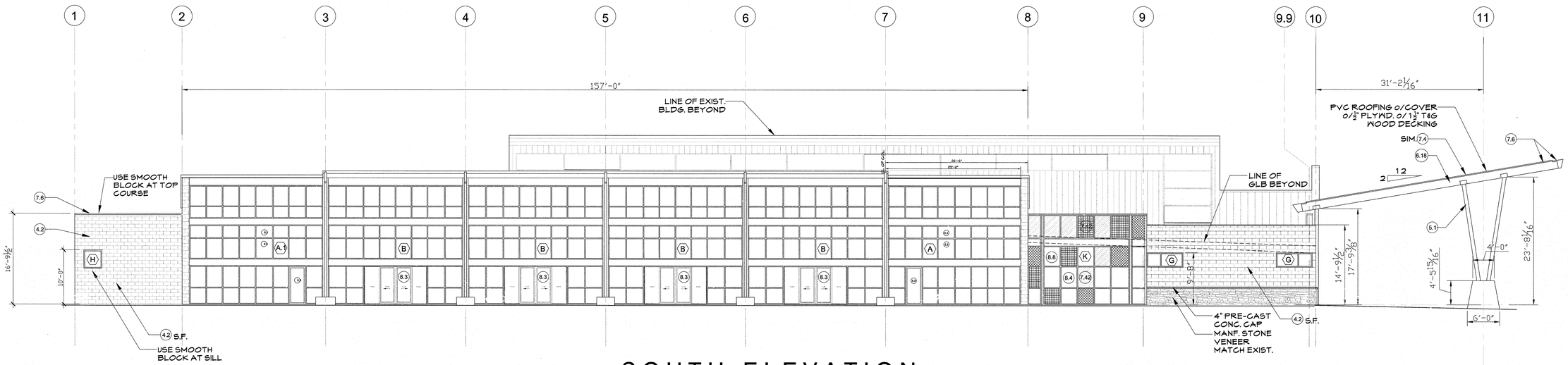
7.42 - SIAM BLUE

7.42 - BONE WHITE



EAST ELEVATION

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



SOUTH ELEVATION

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

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EXTERIOR ELEVATIONS

A2.2

KEYNOTES

4.2 CONCRETE MASONRY UNITS SHALL BE MANUFACTURED BY ANTIQUE BRICK AND BLOCK OR EQUAL. PROJECT INCLUDES BOTH SPLIT FACE AND SMOOTH UNITS AS INDICATED. ALL UNITS SHALL BE INTEGRALLY COLORED. COLORS SHALL BE SELECTED BY THE ARCHITECT FROM MANF.'S STANDARD SELECTION. THE MORTAR COLOR SHALL MATCH THE CORRESPONDING BLOCK COLOR.

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6.18 P.T. GLU-LAM BEAM, GIRDER, OR PURLIN W/WIRE BRUSH FINISH & FACTORY APPLIED STAIN

7.2 BUILDING WRAP AS SPECIFIED

7.21 2" - HFC BLOWN TYPE CLOSED CELL POLYURETHANE FOAM INSULATION

7.4 MIN. 50 MIL SINGLE PLY PVC MEMBRANE ROOFING O/COVER BOARD O/2" RIGID POLYSIO. O/1 1/2" RIGID POLYISO (STAGGER JOINTS) O/SELF-ADHERED MOD. BIT. UNDERLAYMENT O/ 1/2" PLYWD. O/1 1/2" T&G SOLID WOOD DECKING

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8.3 "CRL - US ALUMINUM 3000" THERMAL SLIDING GLASS DOORS (OR EQUAL) SLIDING GLASS DOORS-SET IN ALUM. FRAME TYP. OF 4

8.4 KAWNEER TRIFAB 451UT (OR EQUAL) (CENTER) SCREW SPLINE ASSEMBLY OUTSIDE GLAZED ALUM. FRAMING SYSTEM W/ 2"X4 1/2" FRAMING MEMBERS DESIGNED FOR CENTER GLAZING APPLICATIONS W/1" INSULATED GLASS UNITS. FINISH OF ALUMINUM SHALL BE DARK BRONZE TO MATCH EXIST.

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8.5 ALUMINUM SINGLE HUNG WINDOW-EFCO OR EQUAL

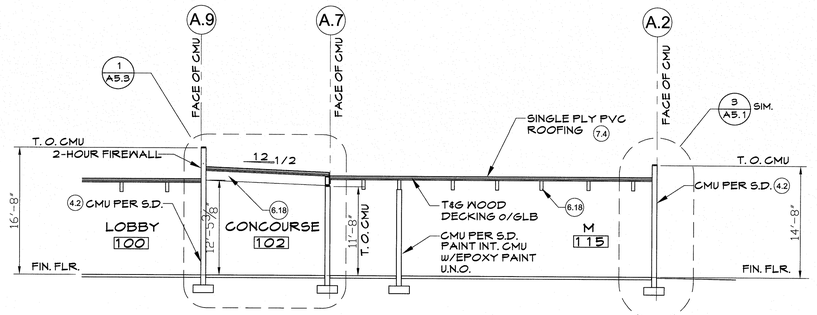
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8.9 "KAWNEER" 360 INSULCLAD - MED. STILE EXTERIOR ALUM./GLASS DOOR OR EQUAL W/EXIT DEVICE, CYLINDER LOCK & PULLS

9.1 5/8" "DENSSHIELD" (OR EQUAL) TILE BACKER BOARD APPLY MIN. 2" FIBERGLASS MESH TAPE AT ALL JOINTS, EMBED IN "STO FLEXYL" GROUND COAT OR EQUAL. SKIM COAT THE ENTIRE SURFACE WITH "STO FLEXYL", & PRIME W/ "STO PRIMER", & PAINT W/EPOXY PAINT

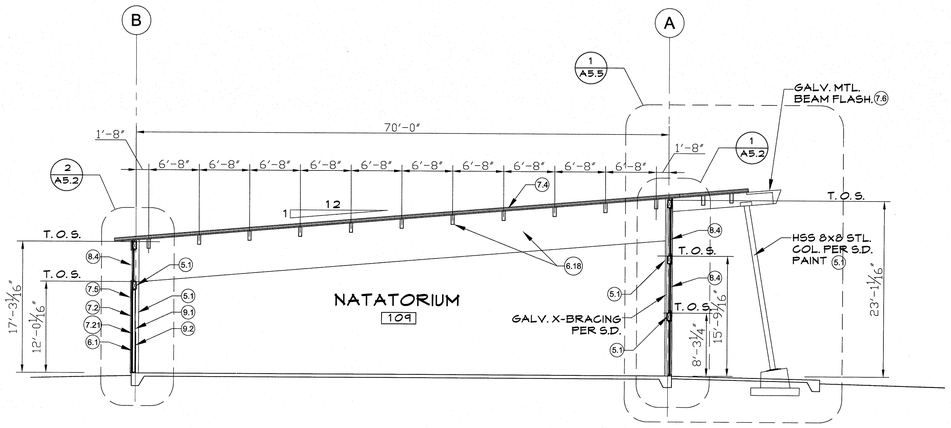
9.2 SECOND LAYER- 5/8" "DENSSHIELD" (OR EQUAL) TILE BACKER BOARD APPLY O/FIRST LAYER W/THIN-SET MASTIC-CERAMIC TILE O/SECOND LAYER TO 5'-6" HEIGHT

NOTE: ALL WOOD FRAMING SHALL BE FIRE RETARDANT TREATED LUMBER.



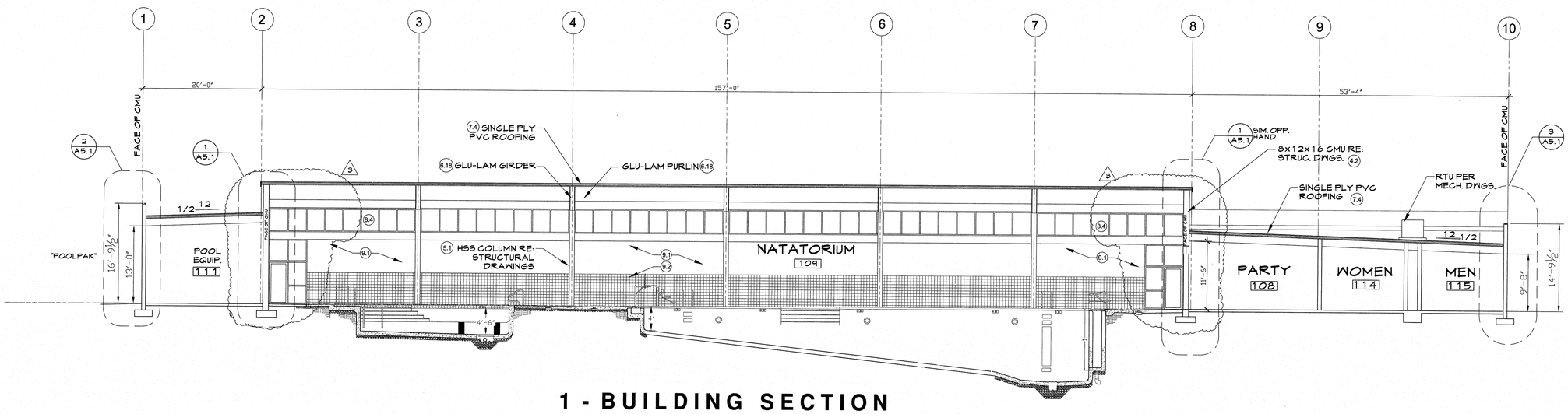
3-BUILDING SECTION

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



2-BUILDING SECTION

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



1 - BUILDING SECTION

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

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DRAWN BY: CHECKED BY:

BUILDING SECTIONS

A3.1

KEYNOTES

4.2 CONCRETE MASONRY UNITS SHALL BE MANUFACTURED BY ANTIQUE BRICK AND BLOCK OR EQUAL . PROJECT INCLUDES BOTH SPLIT FACE AND SMOOTH UNITS AS INDICATED. ALL UNITS SHALL BE INTEGRALLY COLORED. COLORS SHALL BE SELECTED BY THE ARCHITECT FROM MANF.'S STANDARD SELECTION. THE MORTAR COLOR SHALL MATCH THE CORRESPONDING BLOCK COLOR.

EXTERIOR BLOCK WALLS SHALL HAVE ALL CELLS NOT GROUTED INSULATED W/"CORE-FILL 500" AS SPECD.

5.1 EXPOSED GALV. STRUCTURAL STEEL PAINT PER SPECIFICATIONS

6.1 ½" PLY WOOD SHEATHING O/2x6 FRT FRAMING @ 16" O.C.

6.18 P.T. GLU-LAM BEAM, GIRDER, OR PURLIN W/WIRE BRUSH FINISH & FACTORY APPLIED STAIN

7.2 BUILDING WRAP AS SPECIFIED

7.21 2" - HFC BLOWN TYPE CLOSED CELL POLYURETHANE FOAM INSULATION

7.4 MIN. 50 MIL SINGLE PLY PVC MEMBRANE ROOFING O/COVER BOARD O/2" RIGID POLYSIO. O/1 ½" RIGID POLYISO (STAGGER JOINTS) O/SELF-ADHERED MOD. BIT. UNDERLAYMENT O/ ½" PLYND. O/1 ½" T&G SOLID WOOD DECKING

7.42 INSULATED COLORED ALUMINUM GLAZING PANELS- "THERMOLITE" BY "LAMINATORS INC." OR EQUAL. THREE COLORS ARE INDICATED: SIAM BLUE, BONE WHITE, AND PATINA GREEN

7.5 METAL WALL PANELS SHALL BE MIN. 24 GA. GALV. STEEL W/KYNAR 500 FINISH COAT. PANELS SHALL BE SYMMETRICAL RIB, EXPOSED FASTENER - MATCH EXIST.

7.6 METAL CAP FLASHING AT PARAPETS, METAL WALL PANEL TRIM, GUTTERS, DOWNSPOUTS, LEADER BOXES, AND GLB FLASHINGS, ALL ROOF TO WALL FLASHINGS, AND ETC. SHALL BE MIN. 24 GA. GALV. STEEL W/ KYNAR 500 FINISH COAT TO MATCH EXIST. MTL. TRIM & SIDING COLORS

8.3 "KAWNEER" AA 3900 THERMAL SLIDING GLASS DOORS(OR EQUAL) SLIDING GLASS DOORS-SET IN ALUM. FRAME TYP. OF 4

8.4 KAWNEER TRIFAB 451UT (OR EQUAL) (CENTER) SCREW SPLINE ASSEMBLY. OUTSIDE GLAZED ALUM. FRAMING SYSTEM W/ 2"X4 ½" FRAMING MEMBERS DESIGNED FOR CENTER GLAZING APPLICATIONS W/1" INSULATED GLASS UNITS. FINISH OF ALUMINUM SHALL BE DARK BRONZE TO MATCH EXIST.

8.4.1 KAWNEER 1600 CURTAINWALL SYSTEM OR EQUAL (OCCURS AT ENTRANCE & SURROUNDING THE SLIDING GLASS DOORS)

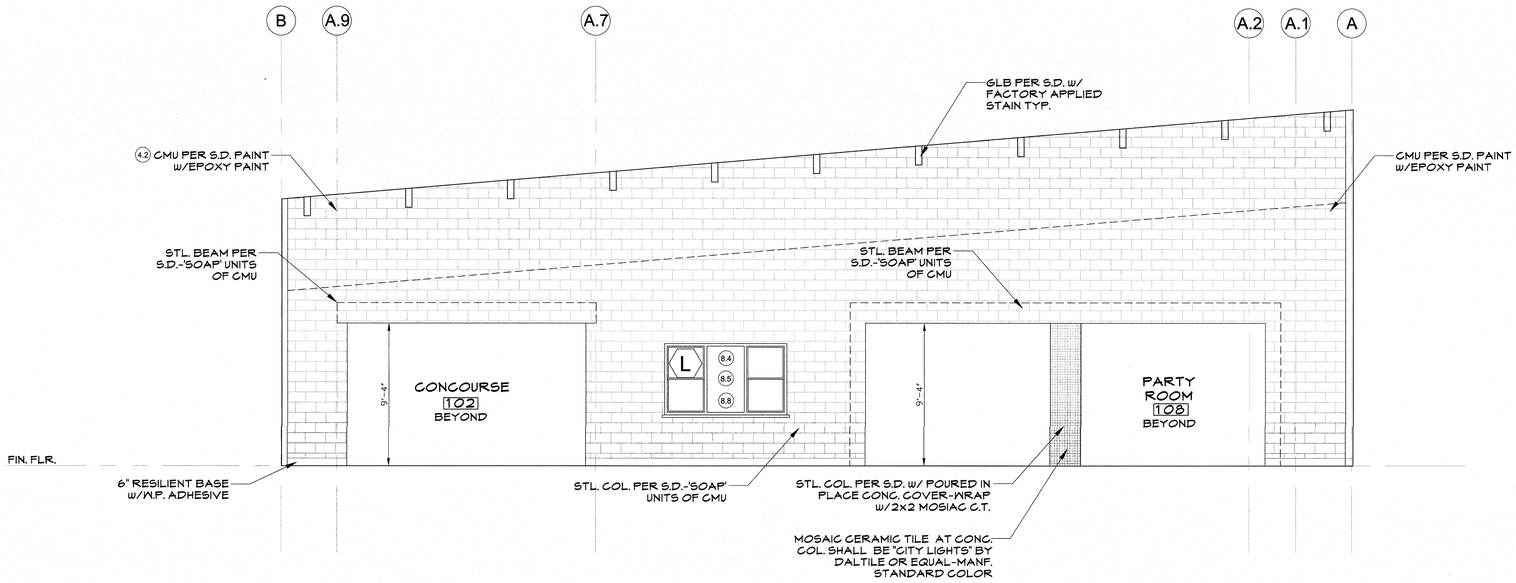
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8.9 "KAWNEER" 360 INSULCLAD - MED. STILE EXTERIOR ALUM./GLASS DOOR OR EQUAL W/EXIT DEVICE, CYLINDER LOCK & PULLS

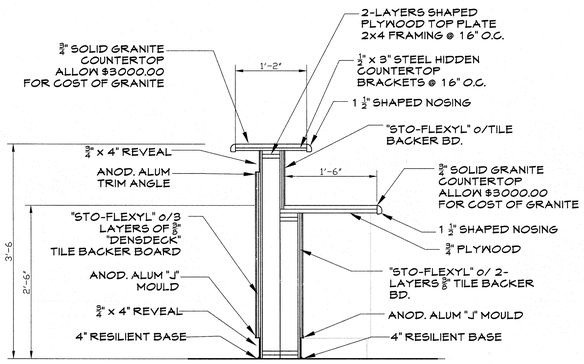
9.1 ⅝" "DENSSHIELD" (OR EQUAL) TILE BACKER BOARD APPLY MIN. 2" FIBERGLASS MESH TAPE AT ALL JOINTS, EMBED IN "STO FLEXYL" GROUND COAT OR EQUAL. SKIM COAT THE ENTIRE SURFACE WITH "STO FLEXYL", & PRIME W/ "STO PRIMER", & PAINT W/EPOXY PAINT

9.2 SECOND LAYER- ⅝" "DENSSHIELD" (OR EQUAL) TILE BACKER BOARD APPLY O/FIRST LAYER W/THIN-SET MASTIC-CERAMIC TILE O/SECOND LAYER TO 5'-6" HEIGHT

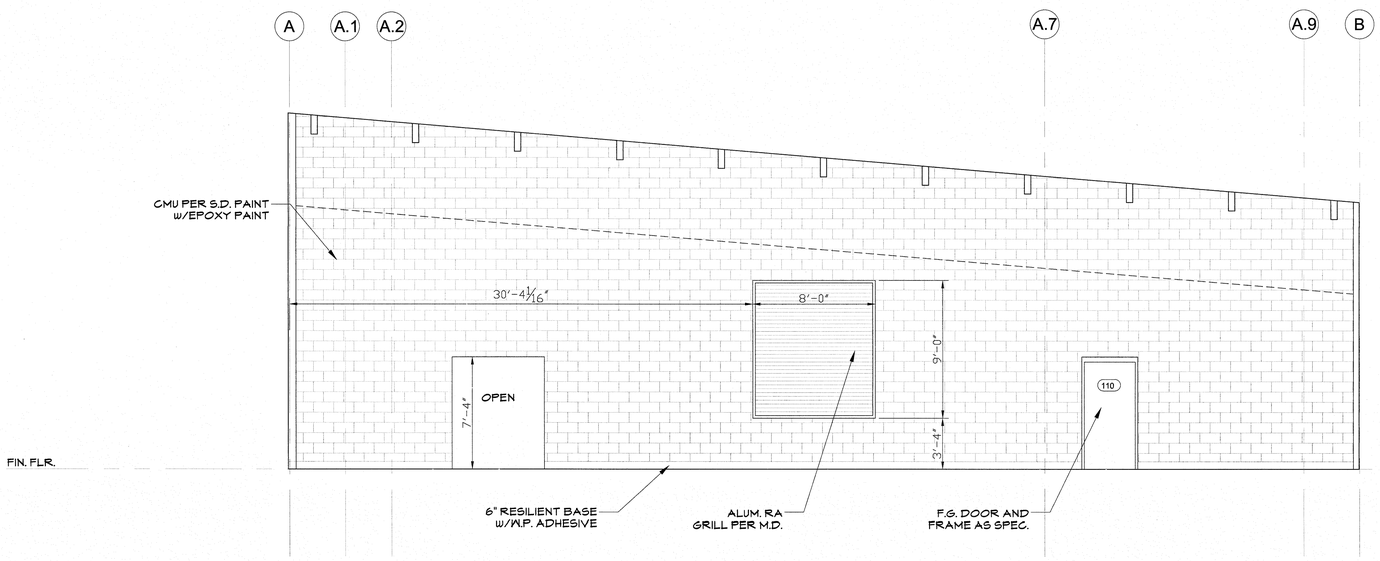


SCALE: 1/4" = 1'-0"

INTERIOR EAST ELEVATION 2



RECEPTION DESK 3



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

INTERIOR WEST ELEVATION 1

GEOTECHNICAL ENGINEER
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Fax 501.753.5747

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REGISTERED ARCHITECT — GERALD AVERY — License Number 4544 — STATE OF ARKANSAS — 8.16.16

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LARRY S. BRYANT
HEALTH AND WELLNESS CENTER
EXPANSION/AQUATIC CENTER
FORREST CITY, AR

ISSUE / DATE	
C.D.	07 / 29 /2016
DATE	DESCRIPTION

PROJECT NO. 163901 CFC

PROJECT PHASE CONSTRUCTION DOCUMENTS

DRAWN BY:— CHECKED BY:

INTERIOR ELEVATIONS

A4.1

KEYNOTES

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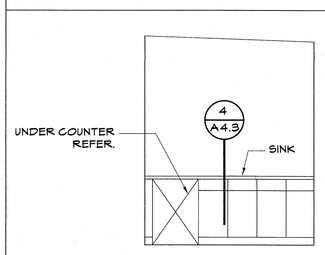
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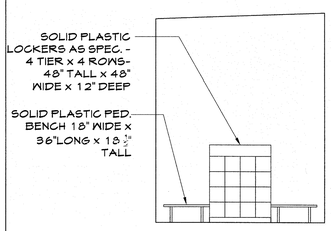
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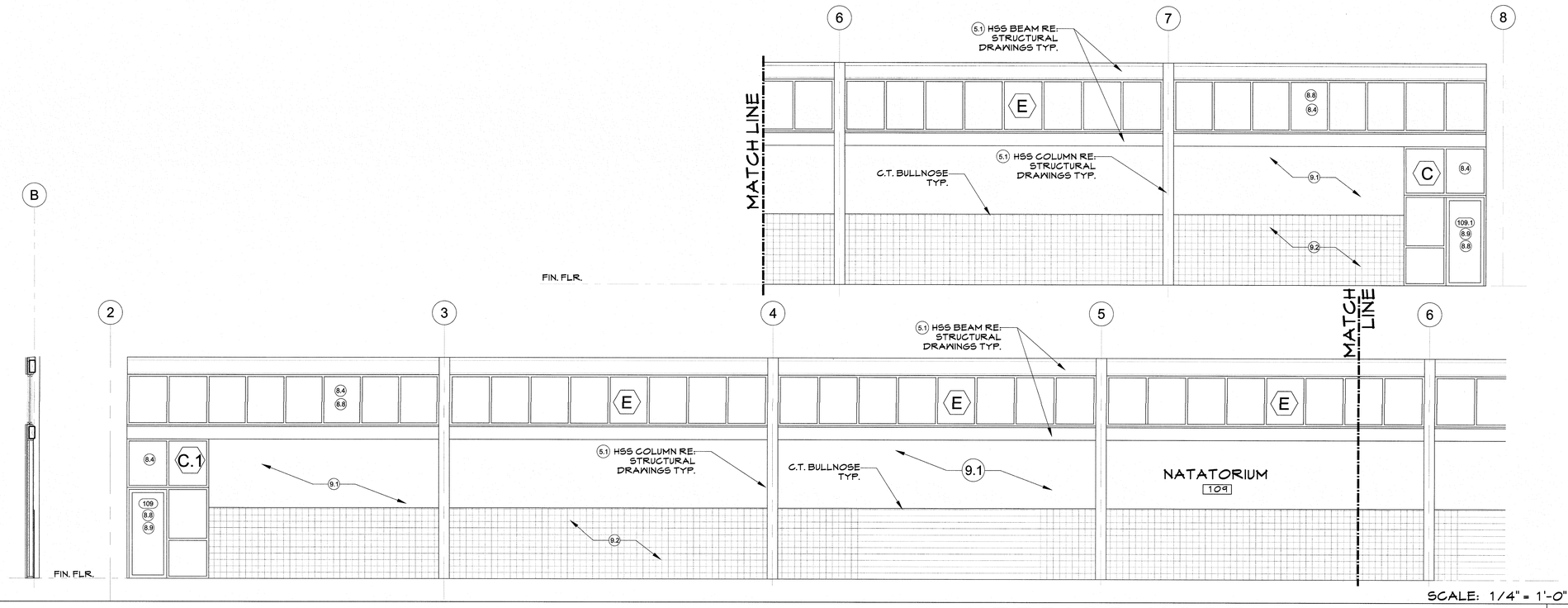


B



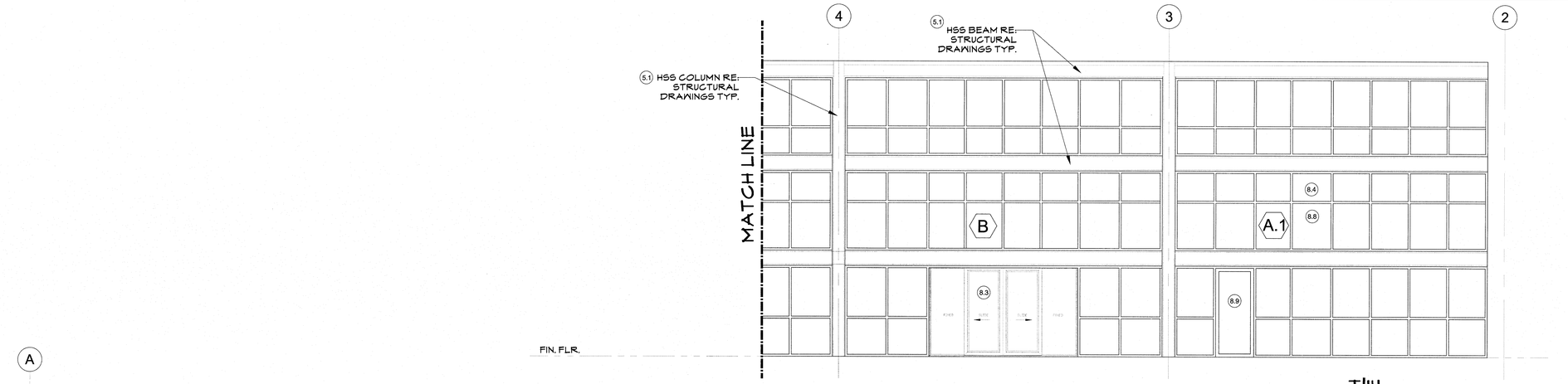
A

LIFEGUARD | 3



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

INTERIOR NORTH ELEVATION | 2



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

INTERIOR SOUTH ELEVATION | 1

GEOTECHNICAL ENGINEER

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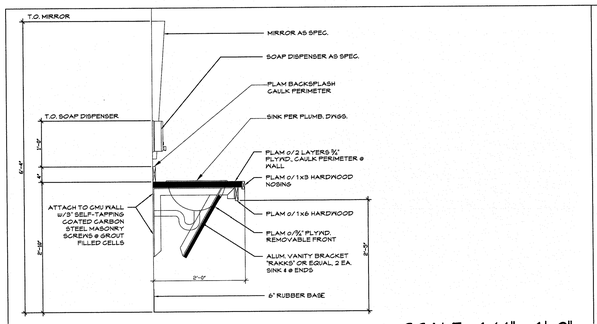
PROJECT NO. 163901 CFC

PROJECT PHASE: CONSTRUCTION DOCUMENTS

DRAWN BY: CHECKED BY:

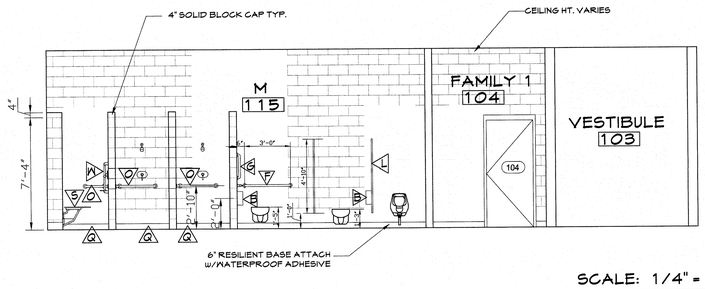
INTERIOR ELEVATIONS

A4.2



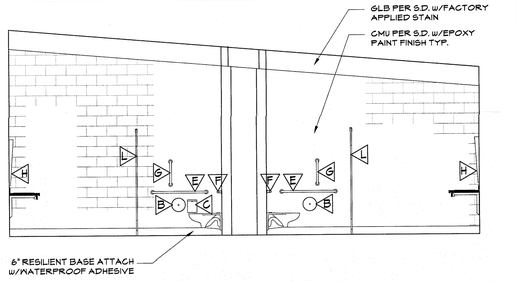
SCALE: 1/4" = 1'-0"

TYP. LAV.-COUNTER SIM. 8



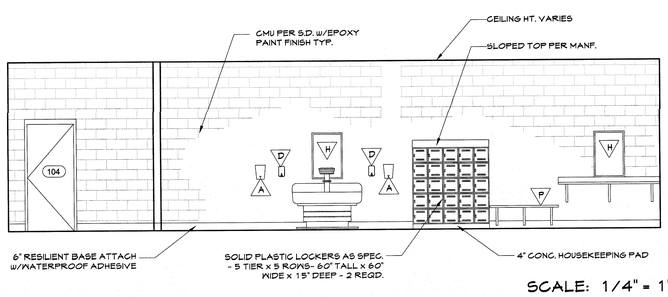
SCALE: 1/4" = 1'-0"

MEN- WOMEN SIM. OPP. HAND 7



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

MEN- WOMEN 6



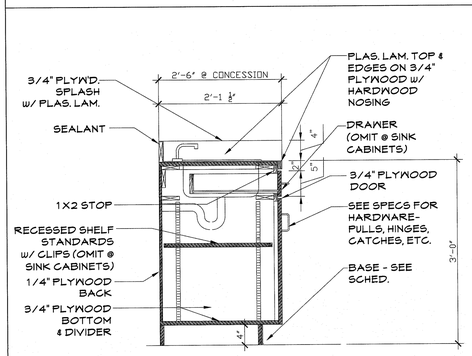
SCALE: 1/4" = 1'-0"

MEN- WOMEN SIM. OPP. HAND 5

ACCESSORY SCHEDULE

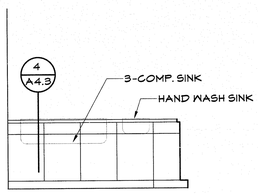
A	HAND DRYER-BOBRICK - B7128 @ 43⅞" A.F.F.
B	SINGLE JUMBO ROLL SURFACE MOUNTED TOILET TISSUE DISPENSER - BOBRICK B-2890, MOUNT @ 24" AFF
C	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL- BOBRICK B-270 MOUNT TOP @ 28" AFF
D	SURFACE MOUNTED SOAP DISPENSER - BOBRICK B-2111 MOUNT TOP @ 50" AFF
E	STSTL. 42" LONG GRAB BARS - BOBRICK B-5806x42 MOUNT HORIZ. CENTER @ 34" AFF
F	STSTL. 36" LONG GRAB BARS - BOBRICK B-5806x36 MOUNT HORIZ. CENTER @ 34" AFF
G	STSTL. 18" LONG GRAB BARS - BOBRICK B-5806x18 MOUNT VERT. BOT. @ 40" AFF
H	STSTL. FRAMED TILT MIRROR - BOBRICK B-293 2436 MOUNT BOT. @ 40" AFF
J	SURFACE MOUNT STSTL. HORIZONTAL BABY CHANGING STATION KOALA-HORIZONTAL KB110-SSWM MOUNT BOT. @ 32" AFF
K	STSTL. MOP HOLDER (JANITOR'S CLOSET) - BOBRICK B-223x24 MOUNT TOP @ 60" AFF
L	BOBRICK-ACCENT SERIES 1530 W/S.S. EDGE TRIM, OVERHEAD BRACED AS SPEC. OR EQUAL TOILET PARTITIONS, DOORS, PILASTERS
M	1 1/4" O.D. S.S. SHOWER CURTAIN ROD
N	VINYL OPAQUE SHOWER CURTAIN W/ HOOKS
O	INSIDE CORNER GRAB BAR UNIT
P	ADA COMPLIANT WALL MOUNTED BENCH 42"x20" DEEP W/ HARDWOOD SEAT & STAINLESS STL. WALL BRACKETS (GLOBAL INDUSTRIAL T9F269868)
Q	PRE-FORMED ACRYLICS SHOWER BASE AS SPEC.
R	24" STAINLESS STEEL GRAB BAR
S	L-SHAPED ADA SHOWER SEAT, BOBRICK B-518 SHOWER SEAT
T	ADA SHOWER SEAT - BOBRICK B-5191
U	STAINLESS STL. SHELF - BOBRICK B-295X16 @ EA. SHOWER
V	HOOK STRIP - BOBRICK B-232X24
W	ADA COMPLIANT HAND HELD WAND

NOTES: 1. PROVIDE ADEQUATE BLOCKING AS REQUIRED FOR ALL INSTALLATIONS
2. COAT HOOKS ARE INCLUDED AS STANDARD HARDWARE ON "BOBRICK" PARTITIONS



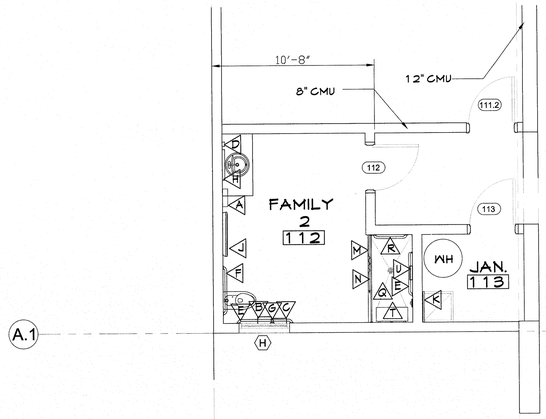
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TYP. CABINET 4



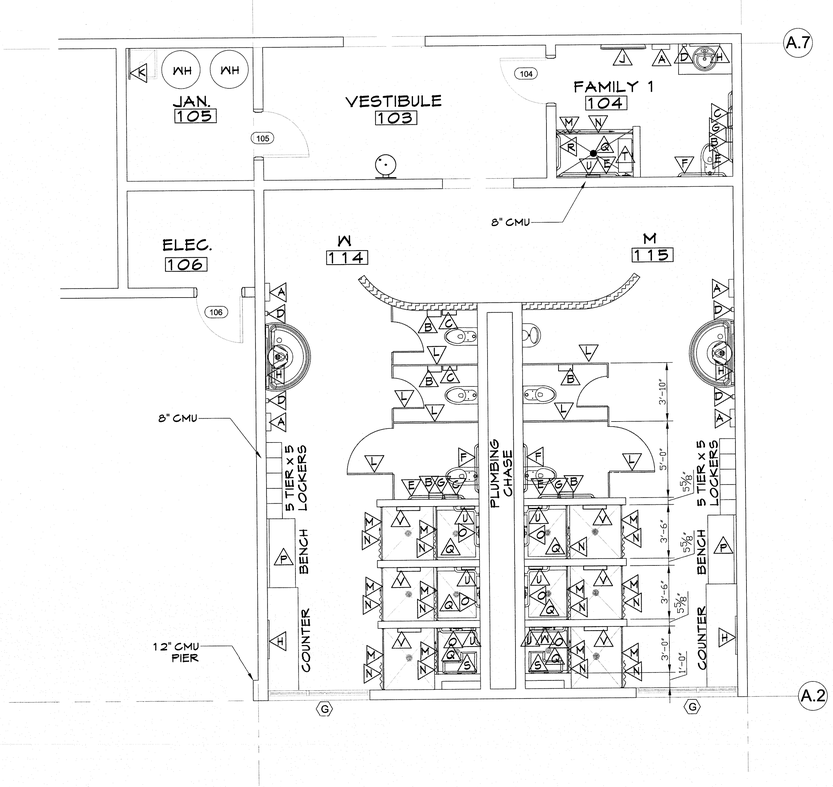
SCALE: 1/4" = 1'-0"

CONCESSION 3



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

ENLARGED FLOOR PLAN 2



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

ENLARGED FLOOR PLAN 1

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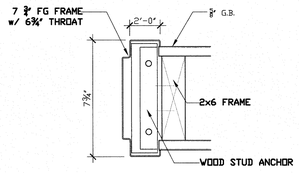
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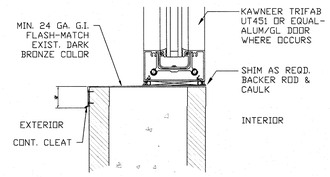
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DRAWN BY:	CHECKED BY:

ENLARGED PLANS INTERIOR ELEVATIONS

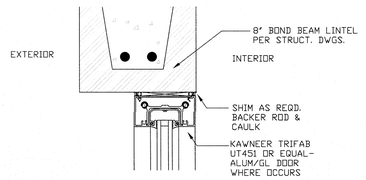
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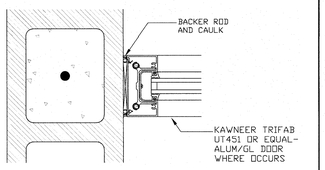
19 JAMB - HEAD SIM. 3" = 1'-0"



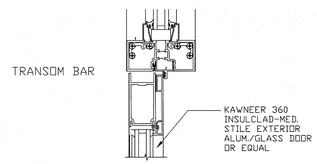
18 SILL



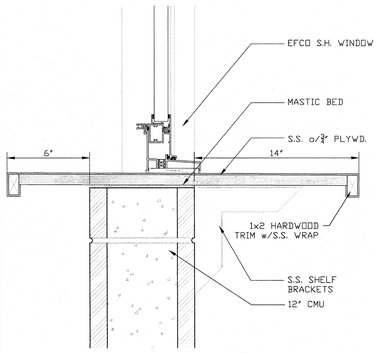
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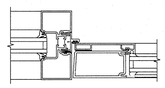
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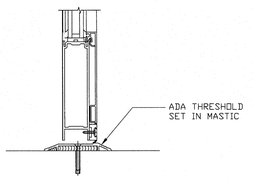
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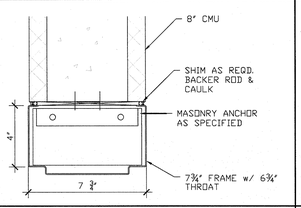
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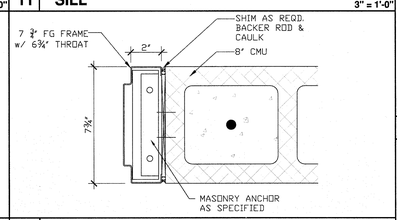
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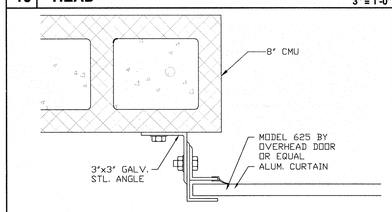
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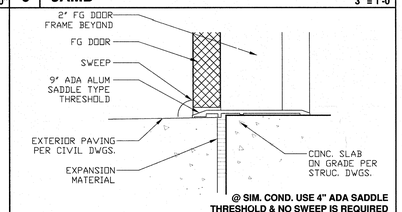
10 HEAD 3" = 1'-0"



9 JAMB 3" = 1'-0"



8 JAMB 3" = 1'-0"

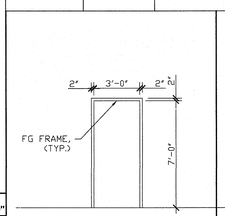


@ SIM. COND. USE 4" ADA SADDLE THRESHOLD & NO SWEEP IS REQUIRED

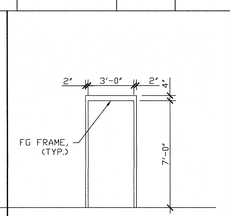
7 SILL 3" = 1'-0"

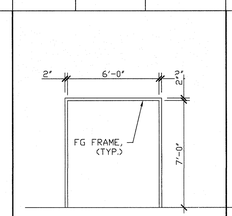
DOOR & FRAME SCHEDULE

DOOR					FRAME		FIRE	FRAME DETAILS			H.M. GROUP	FINISH	REMARKS
MARK	WIDTH	HT.	MATERIAL	TYPE	TYPE	WIDTH	RATING	HEAD	JAMB	SILL	NO.		
100	6'-0"	7'-0"	ALUM./GL	4A/A4.4	MANF.	4 ½"	NA	14/A4.4	13/A4.4	11/A4.4	1	FACTORY	WITH EXIT DEVICE AND PULL
101	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	19/A4.4 SIM	19/A4.4	-	3	FACTORY	
100.1	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	19/A4.4 SIM	19/A4.4	-	3	FACTORY	
102	6'-0"	7'-0"	FIBERGLASS	5A/A4.4	MANF.	7¾"	1½ HOUR	10/A4.4	9/A4.4	-	6	FACTORY	WITH EXIT DEVICE AND PULL 1½ HOUR RATED ASSEMBLY
104	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	10/A4.4	9/A4.4	-	3	FACTORY	
105	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	10/A4.4	9/A4.4	-	4	FACTORY	
106	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	10/A4.4	9/A4.4	-	4	FACTORY	
107	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	10/A4.4	9/A4.4	-	4	FACTORY	
109	3'-0"	7'-0"	ALUM./GL	4B/A4.4	MANF.	4 ½"	NA	14/A4.4	13/A4.4	11/A4.4	2	FACTORY	WITH EXIT DEVICE AND PULL
109.1	3'-0"	7'-0"	ALUM./GL	4B/A4.4	MANF.	4 ½"	NA	14/A4.4	13/A4.4	11/A4.4	2	FACTORY	WITH EXIT DEVICE AND PULL
109.2	3'-0"	7'-0"	ALUM./GL	4B/A4.4	MANF.	4 ½"	NA	14/A4.4	13/A4.4	11/A4.4	2	FACTORY	WITH EXIT DEVICE AND PULL
109.3	3'-0"	7'-0"	ALUM./GL	4B/A4.4	MANF.	4 ½"	NA	14/A4.4	13/A4.4	11/A4.4	2	FACTORY	WITH EXIT DEVICE AND PULL
110	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	10/A4.4	9/A4.4	-	3	FACTORY	
111	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	10/A4.4	9/A4.4	7/A4.4	5	FACTORY	WITH EXIT DEVICE AND PULL
111.1	12'-0"	10'-0"	ALUM	3/A4.4	3/A4.4	-	NA	-	8/A4.4	-	-	FACTORY	ROLLING SERVICE DOOR
111.2	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	10/A4.4	9/A4.4	-	4	FACTORY	
112	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	10/A4.4	9/A4.4	-	3	FACTORY	
113	3'-0"	7'-0"	FIBERGLASS	2/A4.4	6B/A4.4	7¾"	NA	10/A4.4	9/A4.4	-	4	FACTORY	

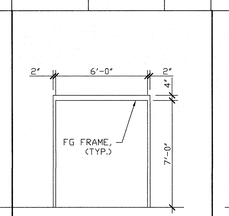


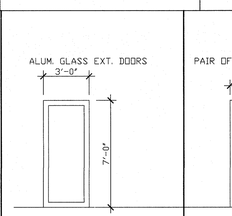
6 FRAME TYPE ¼" = 1'-0"



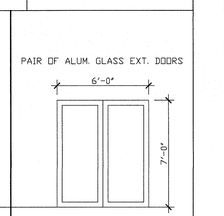


5 FRAME TYPE ¼" = 1'-0"

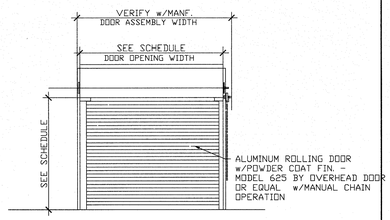




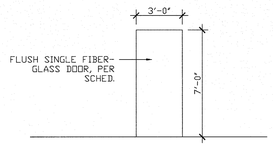
4 DOOR TYPE - MED. STILE ALUM./GLASS



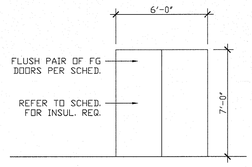
¼" = 1'-0"



3 DOOR TYPE - ROLLING SERVICE DOOR ¼" = 1'-0"



2 DOOR TYPE ¼" = 1'-0"



1 DOOR TYPE ¼" = 1'-0"

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8.10.16

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LARRY S. BRYANT
HEALTH AND WELLNESS CENTER
EXPANSION/AQUATIC CENTER
FORREST CITY, AR

ISSUE / DATE	
C.D.	07/29/2016
DATE	DESCRIPTION

PROJECT NO. 163901 CFC

PROJECT PHASE CONSTRUCTION DOCUMENTS

DRAWN BY: CHECKED BY:

DOOR SCHEDULE
DOOR/WINDOW
DETAILS

A4.4

KEYNOTES

7.42 INSULATED COLORED ALUMINUM GLAZING PANELS- "THERMOLITE" BY "LAMINATORS INC." OR EQUAL. THREE COLORS ARE INDICATED: SIAM BLUE, BONE WHITE, AND PATINA GREEN

8.3 "KAWNEER" AA 3900 THERMAL SLIDING GLASS DOORS(OR EQUAL) SLIDING GLASS DOORS-SET IN ALUM. FRAME TYP. OF 4

8.4 KAWNEER TRIFAB 451UT (OR EQUAL) (CENTER) SCREW SPLINE ASSEMBLY OUTSIDE GLAZED ALUM. FRAMING SYSTEM W/ 2"x4 1/2" FRAMING MEMBERS DESIGNED FOR CENTER GLAZING APPLICATIONS W/ 1" INSULATED GLASS UNITS. FINISH OF ALUMINUM SHALL BE DARK BRONZE TO MATCH EXIST.

8.4.1 KAWNEER 1600 CURTAINWALL SYSTEM OR EQUAL (OCCURS AT ENTRANCE & SURROUNDING THE SLIDING GLASS DOORS)

8.5 ALUMINUM SINGLE HUNG WINDOW-EFCO OR EQUAL

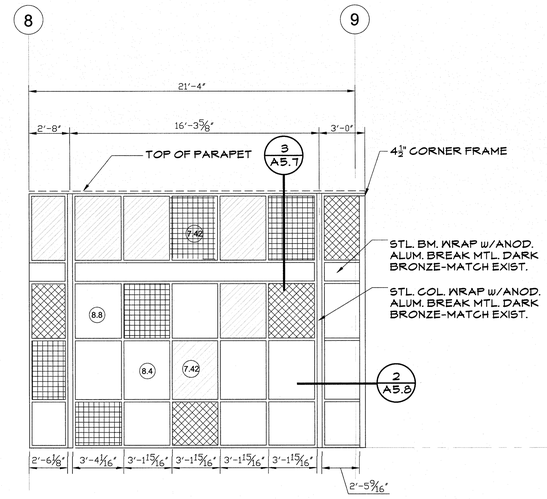
8.8 INSULATED GLASS UNITS SHALL CONSIST OF: OUTER LITE- PPG SOLARGRAY, 3/4" AIRSPACE, INNER LITE-PPG SOLARBAN ON CLEAR (OR EQUAL) ALL GLASS SHALL BE TEMPERED WHERE REQUIRED BY CODE

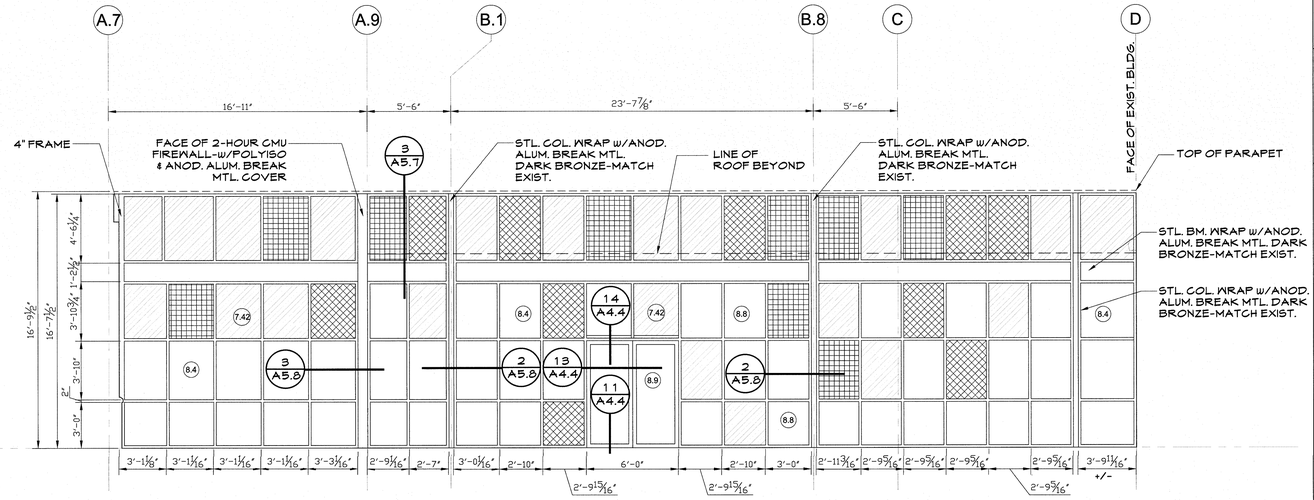
8.9 "KAWNEER" 360 INSULCLAD - MED. STILE EXTERIOR ALUM./GLASS DOOR OR EQUAL W/EXIT DEVICE, CYLINDER LOCK & PULLS

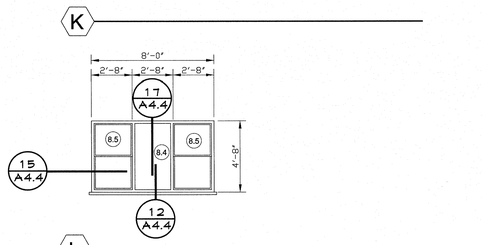
7.42 - PATINA GREEN

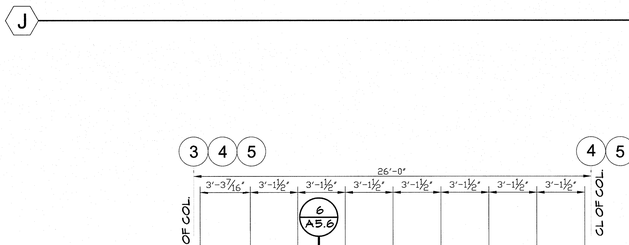
7.42 - SIAM BLUE

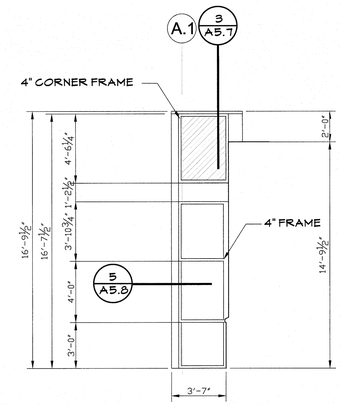
7.42 - BONE WHITE

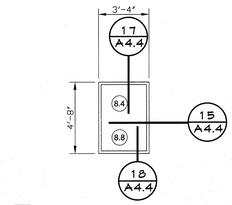


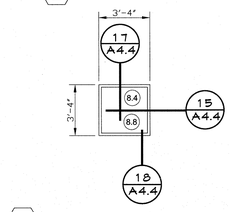


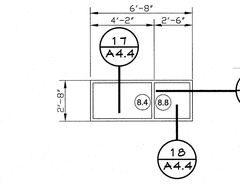


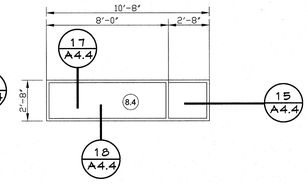


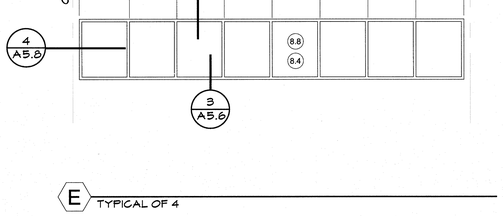


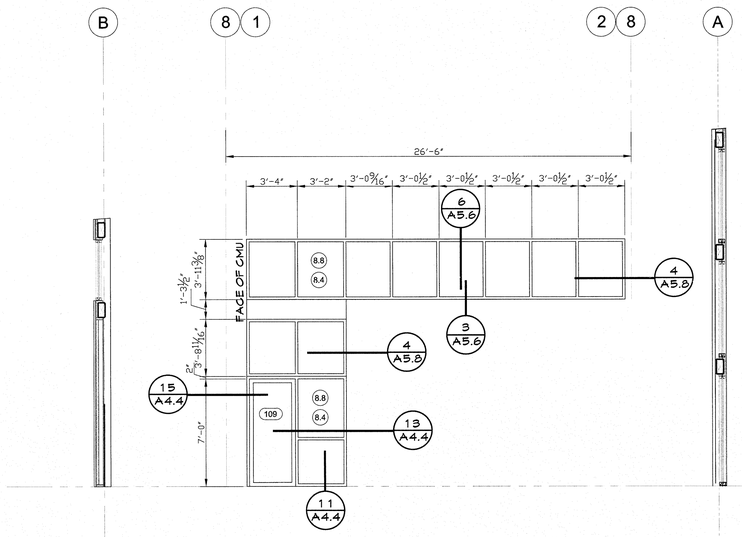


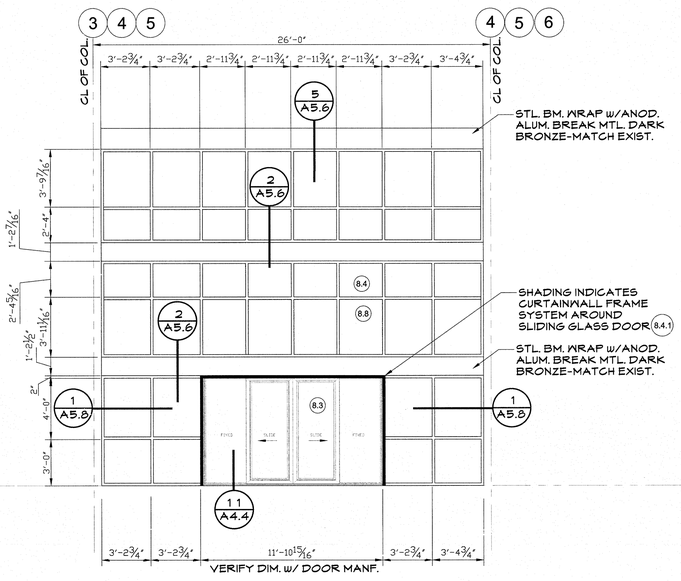


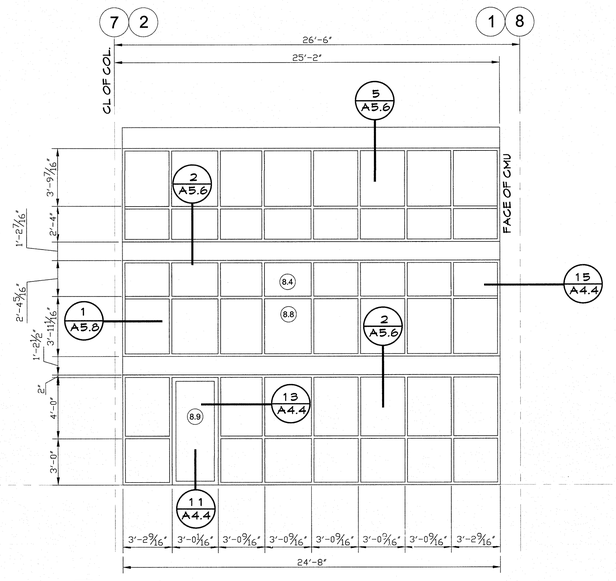












SCALE: 1/4" = 1'-0"

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REGISTERED ARCHITECT — GERALD AVERY — License Number 4544 — STATE OF ARKANSAS — 8.10.16

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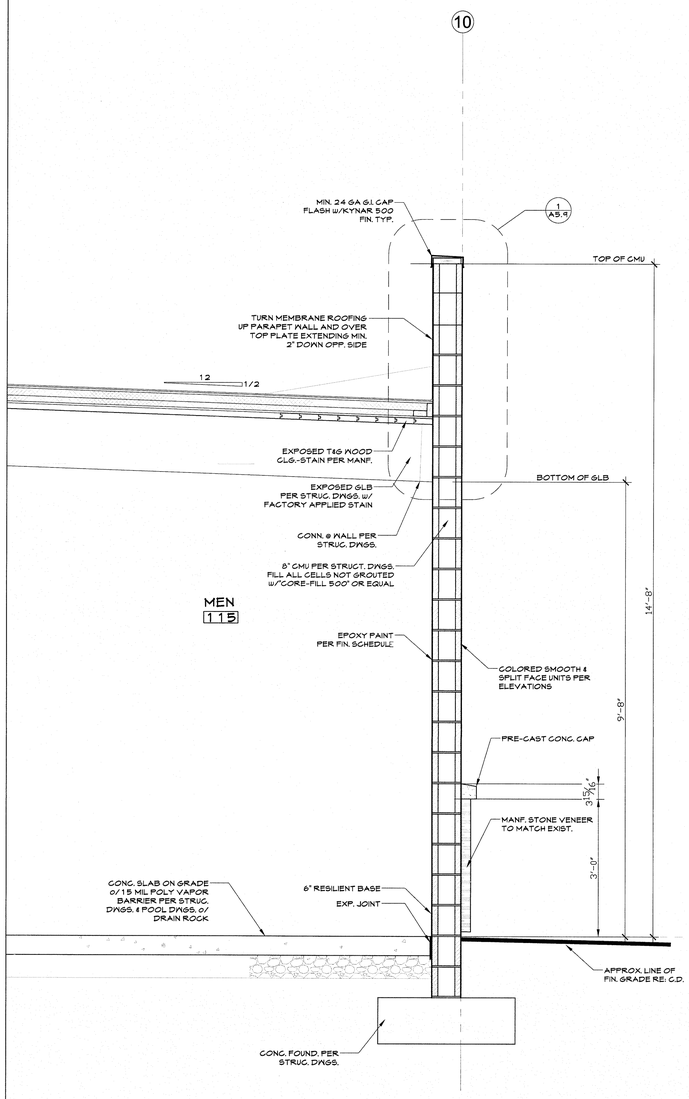
PROJECT NO. 163901 CFC

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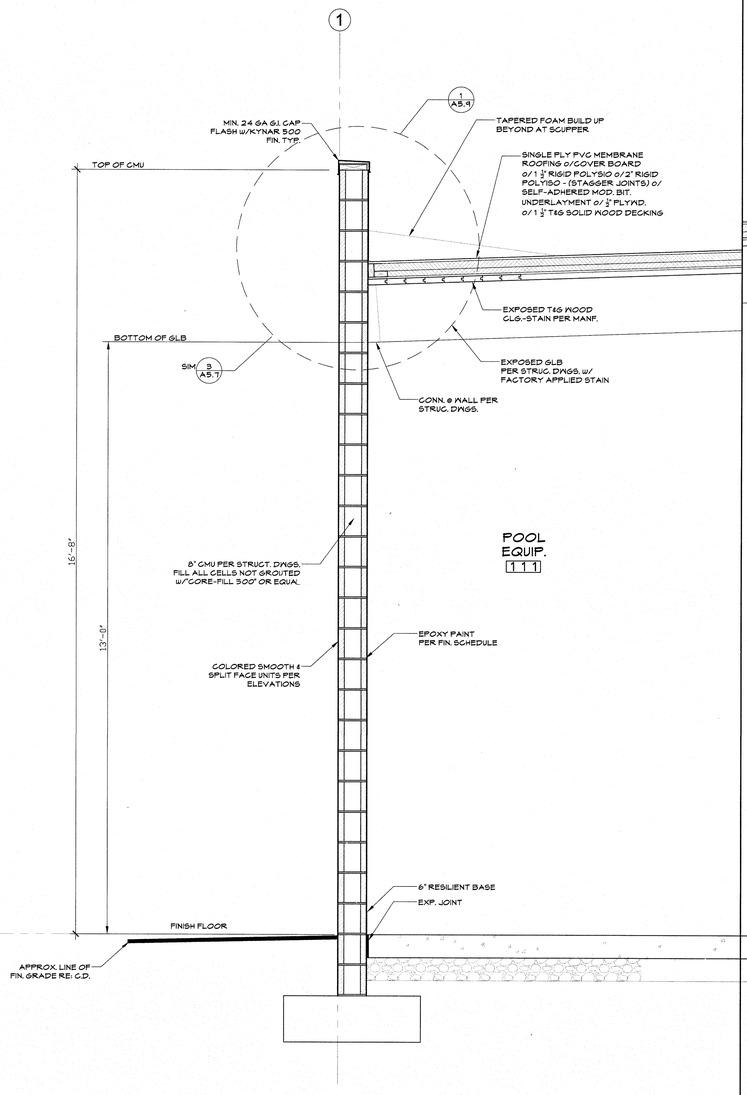
WINDOW TYPES

A4.5



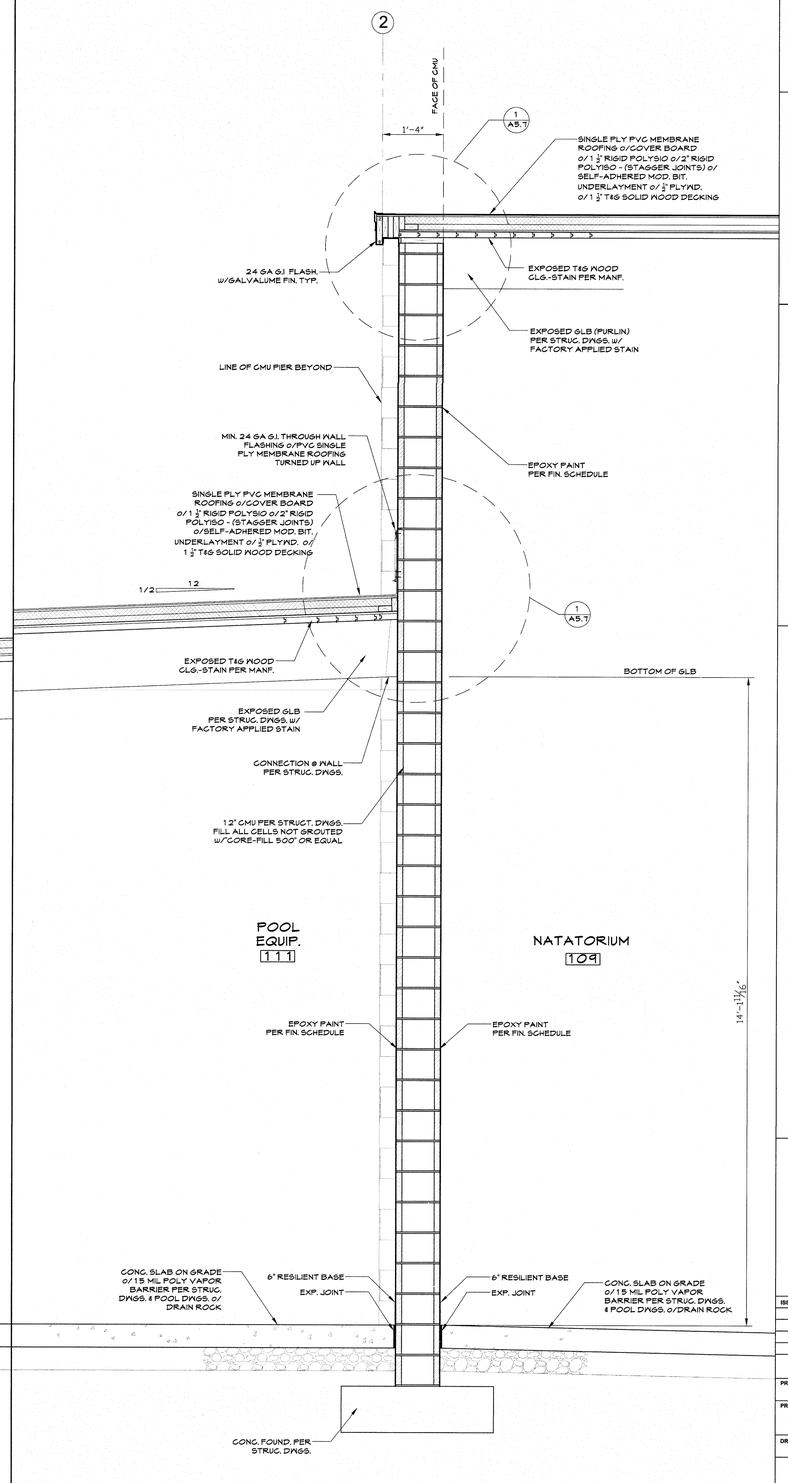
SCALE: 3/4" = 1'-0"

WALL SECTION 3



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

WALL SECTION 2



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

WALL SECTION 1

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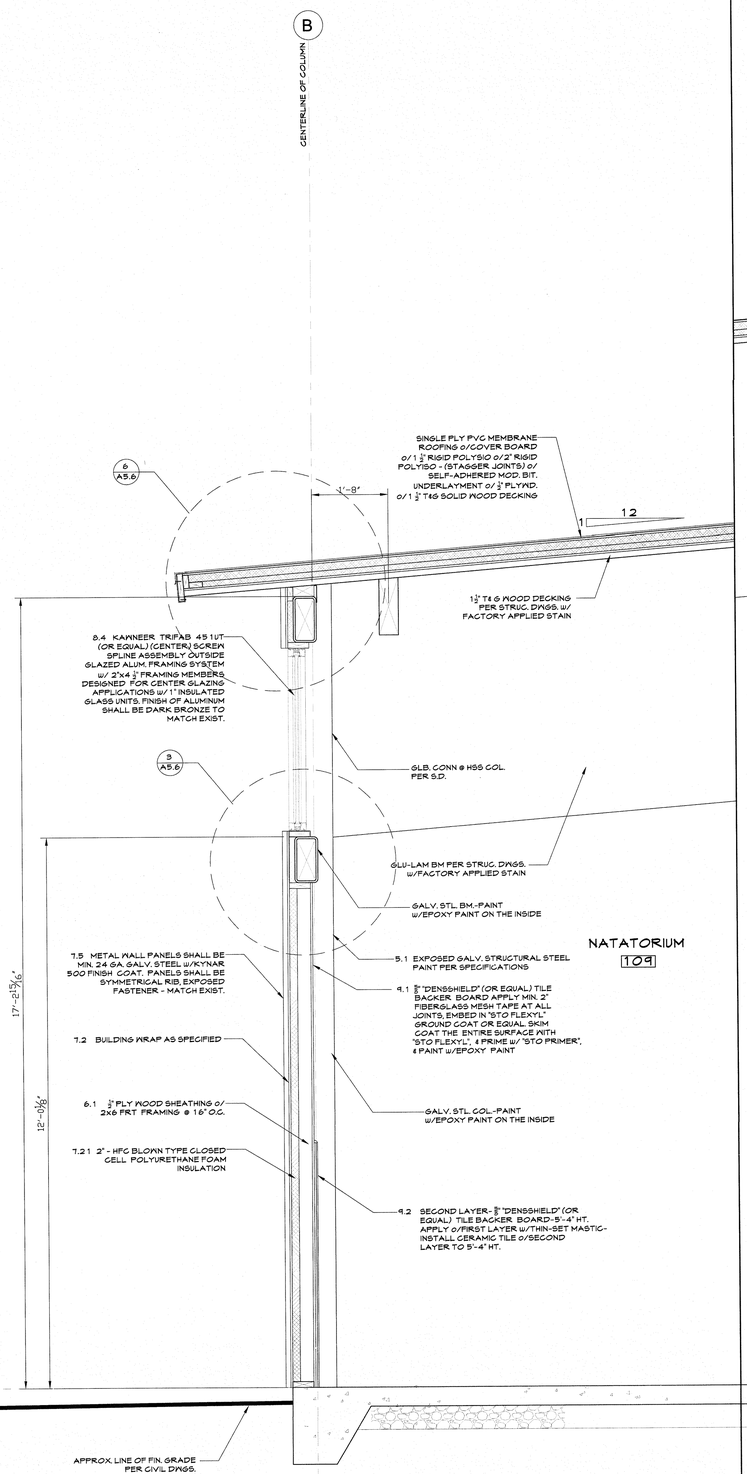
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WALL SECTIONS

A5.1



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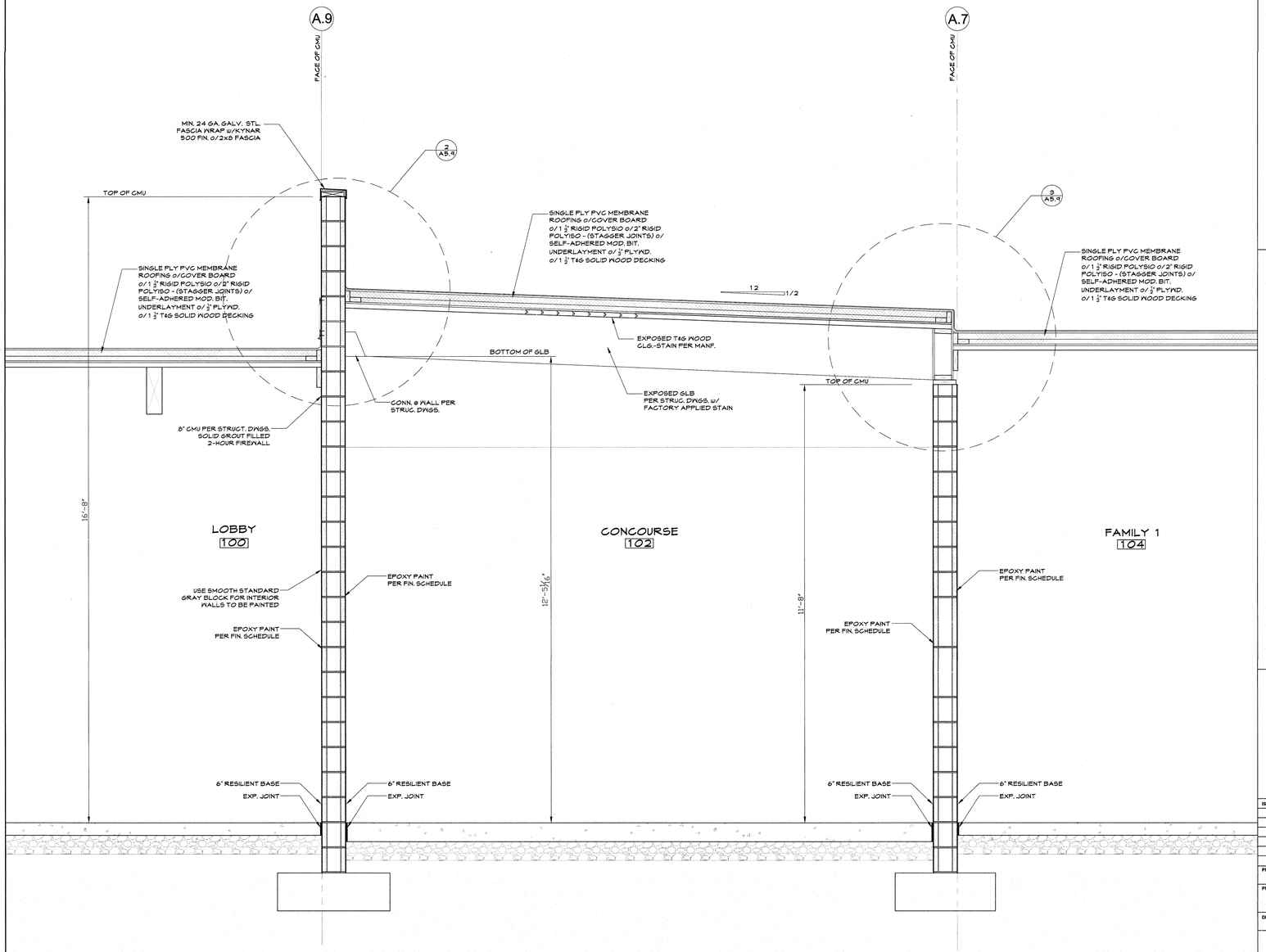
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PROJECT PHASE CONSTRUCTION DOCUMENTS

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WALL SECTIONS

A5.2



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

WALL SECTION 1

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WALL SECTIONS

A5.3

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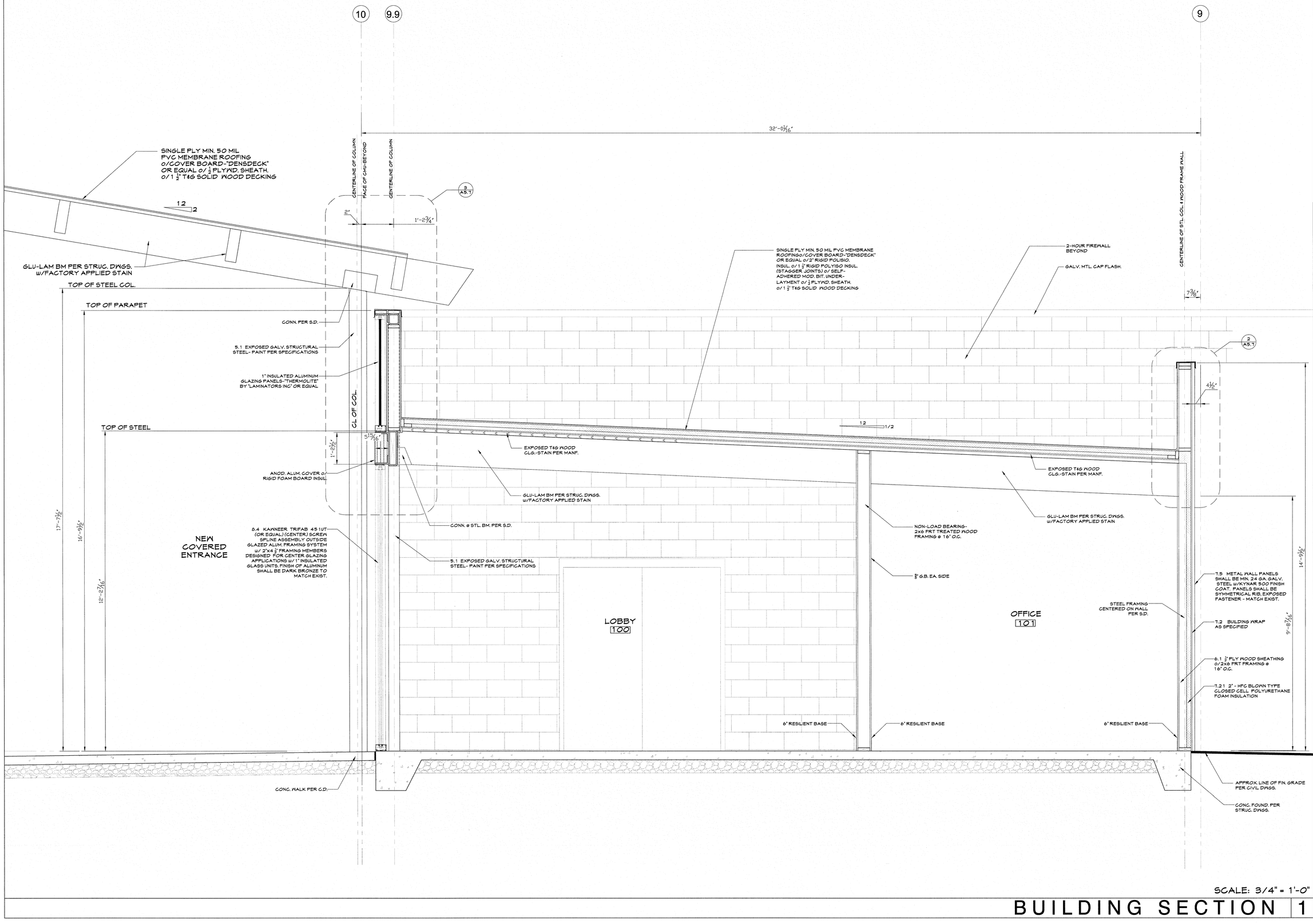
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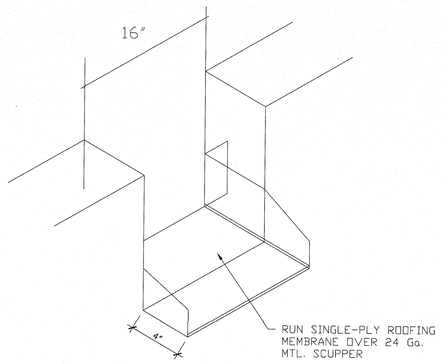
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DRAWN BY:	CHECKED BY:

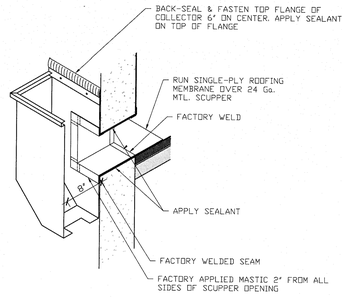
BUILDING SECTION

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

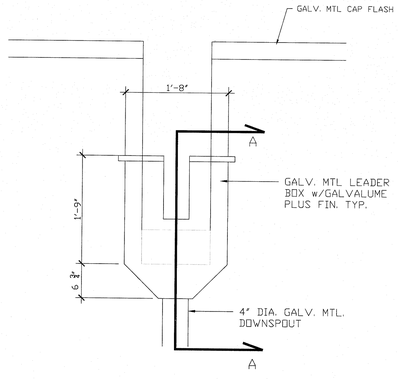
BUILDING SECTION 1

A5.4



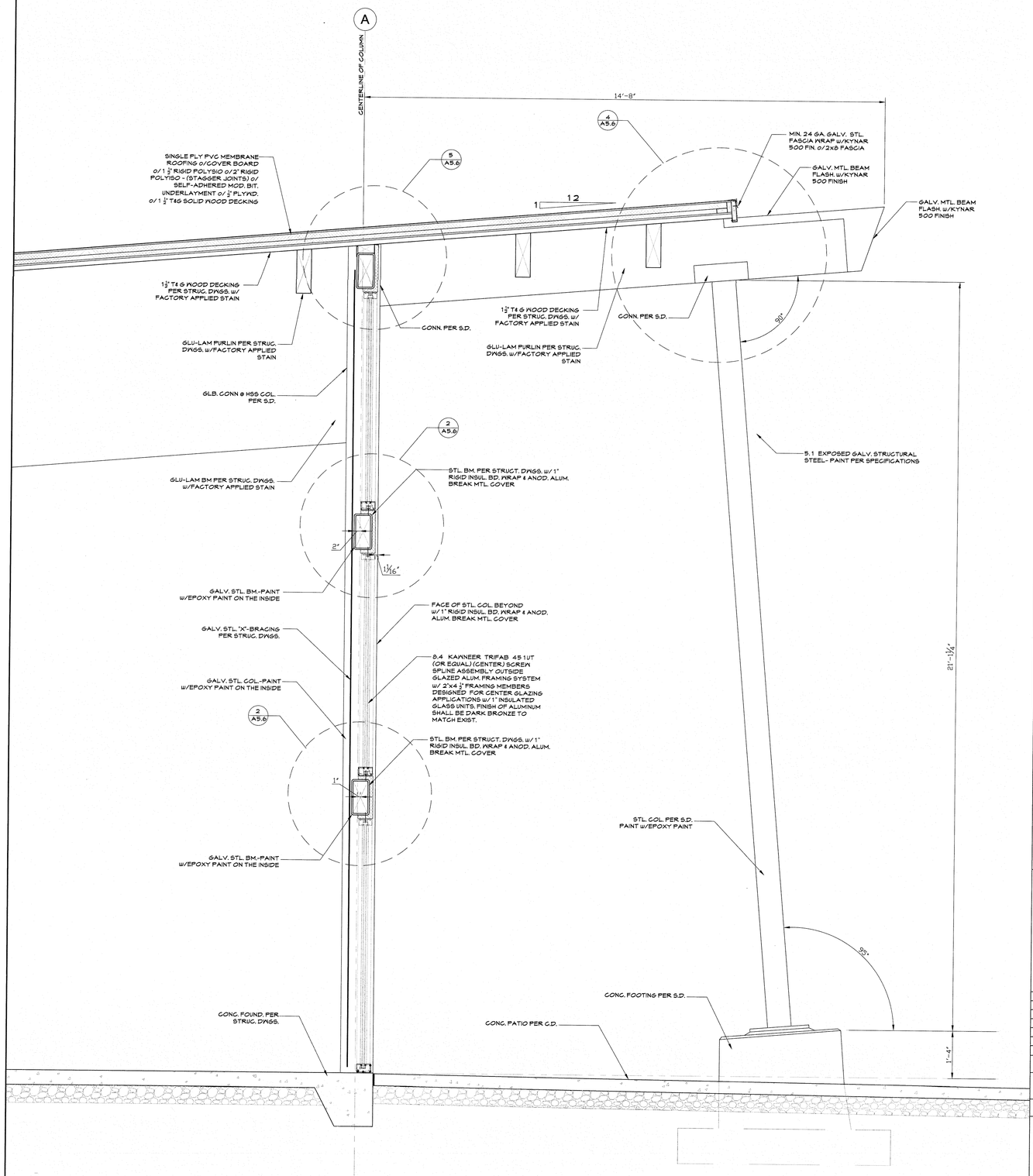


A-A



SCALE: NONE

SCUPPER DETAIL 2



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

WALL SECTION 1

GEOTECHNICAL ENGINEER
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REGISTERED ARCHITECT — GERALD AVERY — License Number 4544 — STATE OF ARKANSAS
8.10.16

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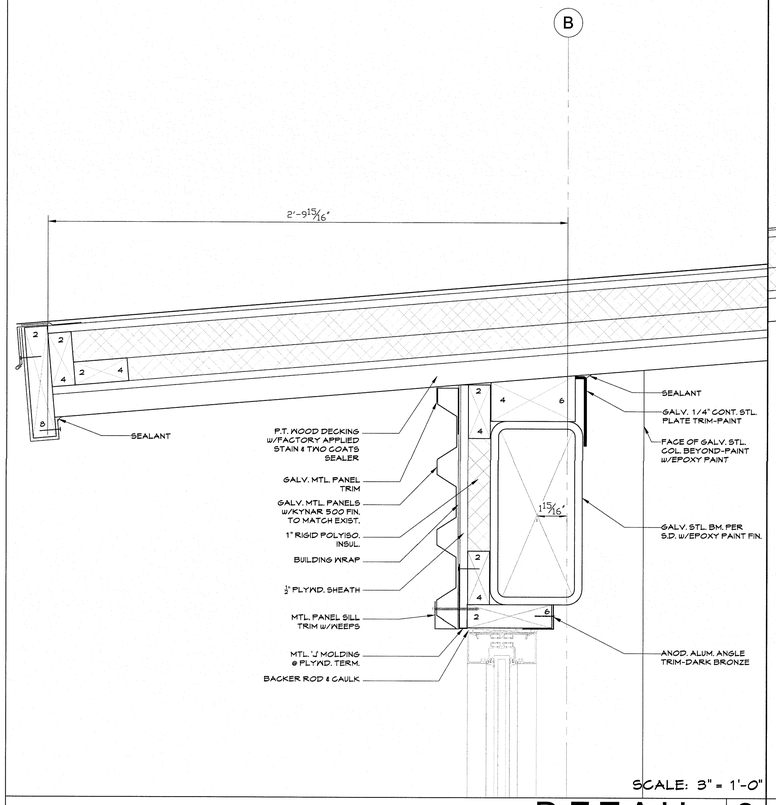
LARRY S. BRYANT HEALTH AND WELLNESS CENTER EXPANSION/AQUATIC CENTER

FORREST CITY, AR

ISSUE / DATE	
C.D.	07 / 29 / 2016
DESCRIPTION	
PROJECT NO.	163901 CFC
PROJECT PHASE	CONSTRUCTION DOCUMENTS
DRAWN BY:	CHECKED BY:

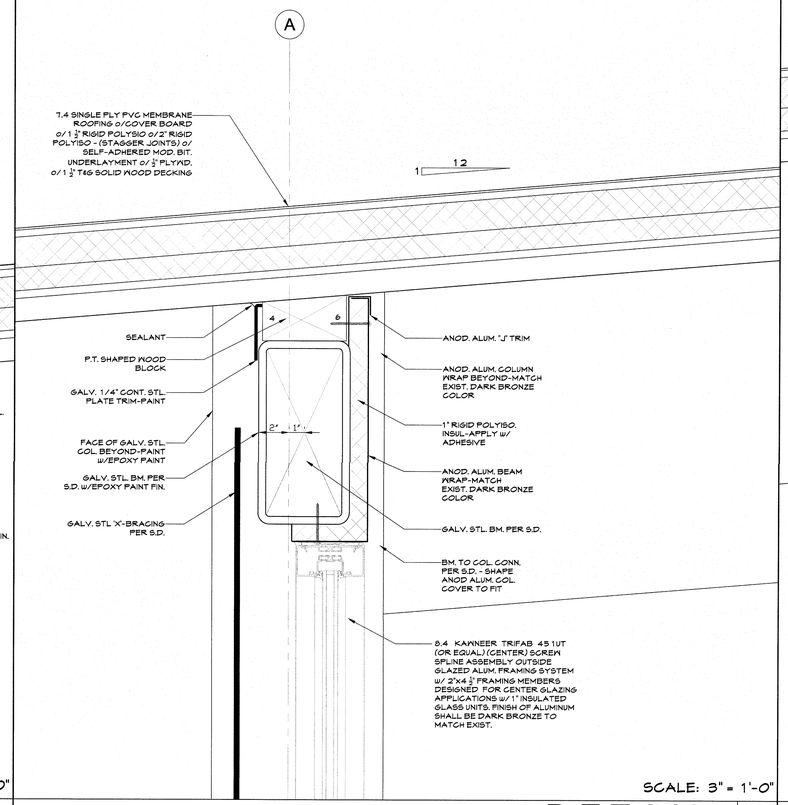
WALL SECTIONS/ DETAILS

A5.5



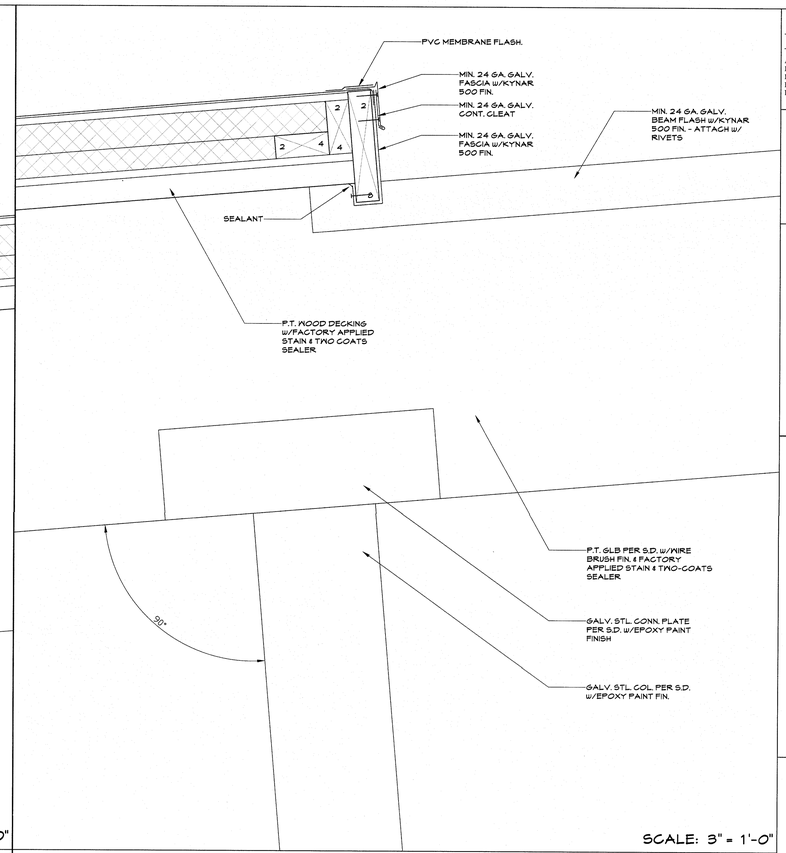
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DETAIL 6



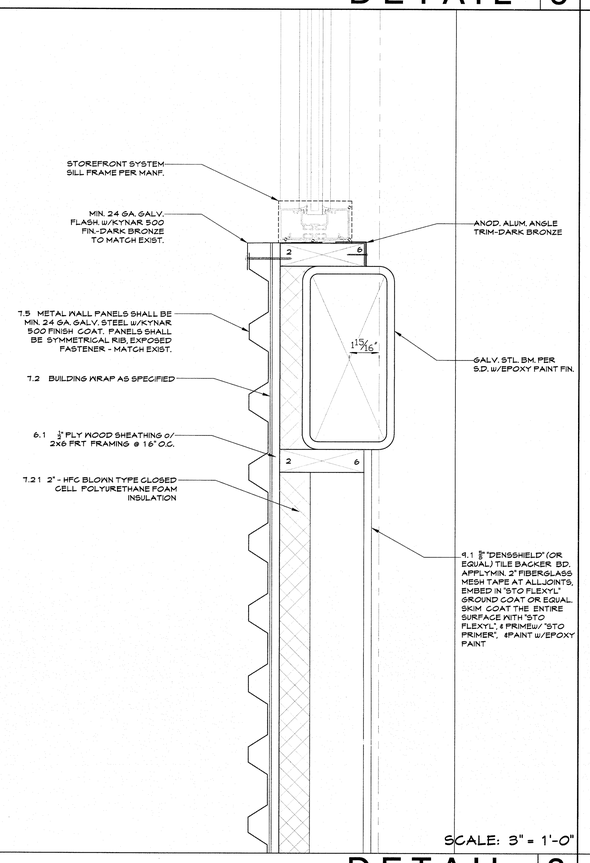
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DETAIL 5



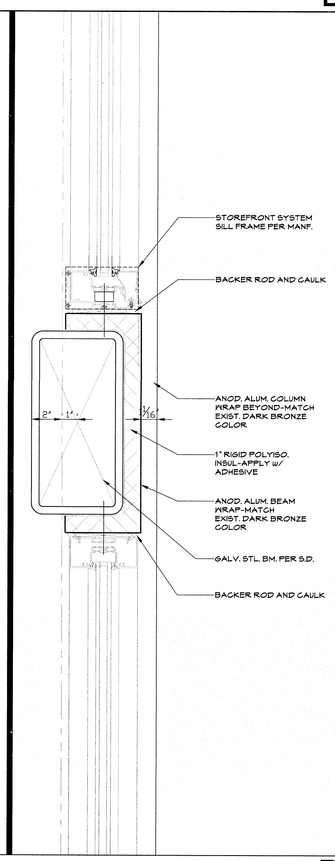
SCALE: 3" = 1'-0"

DETAIL 4



SCALE: 3" = 1'-0"

DETAIL 3



SCALE: 3" = 1'-0"

DETAIL 2

SCALE: 3" = 1'-0"

DETAIL 1

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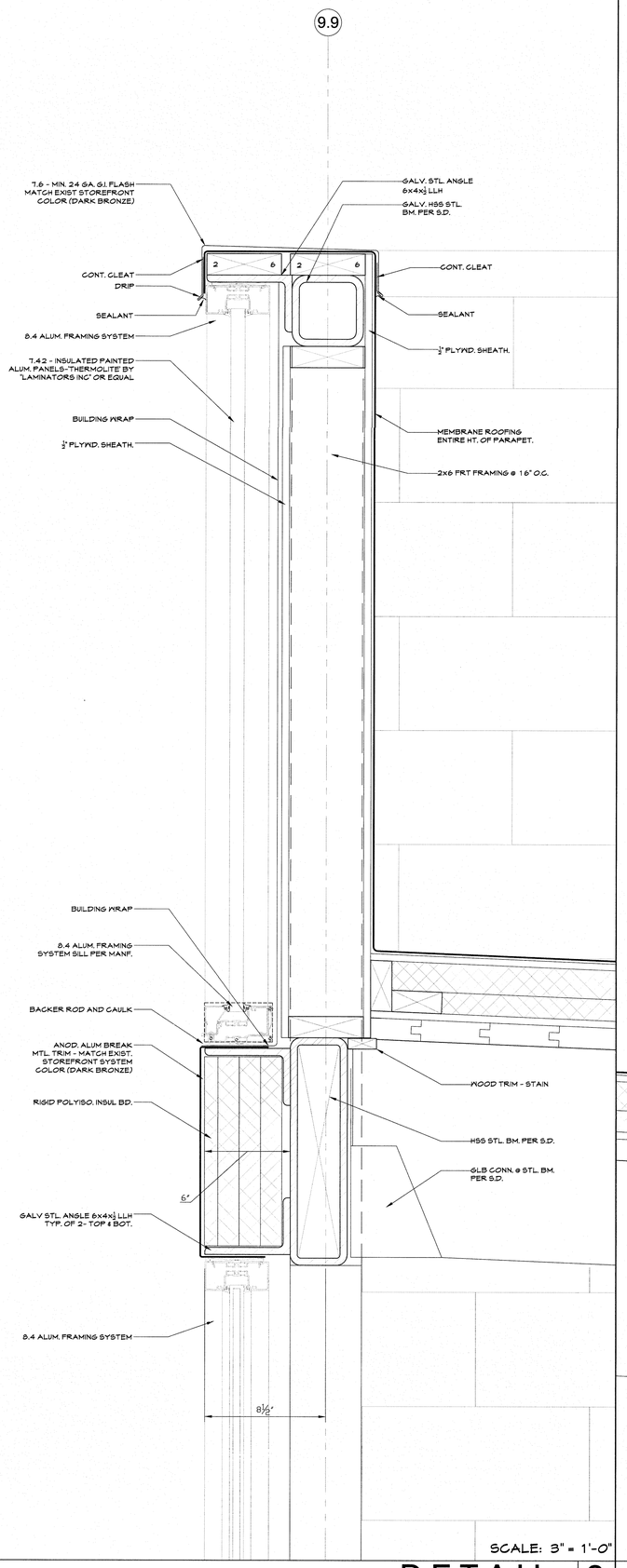
PROJECT NO. 163901 CFC

PROJECT PHASE CONSTRUCTION DOCUMENTS

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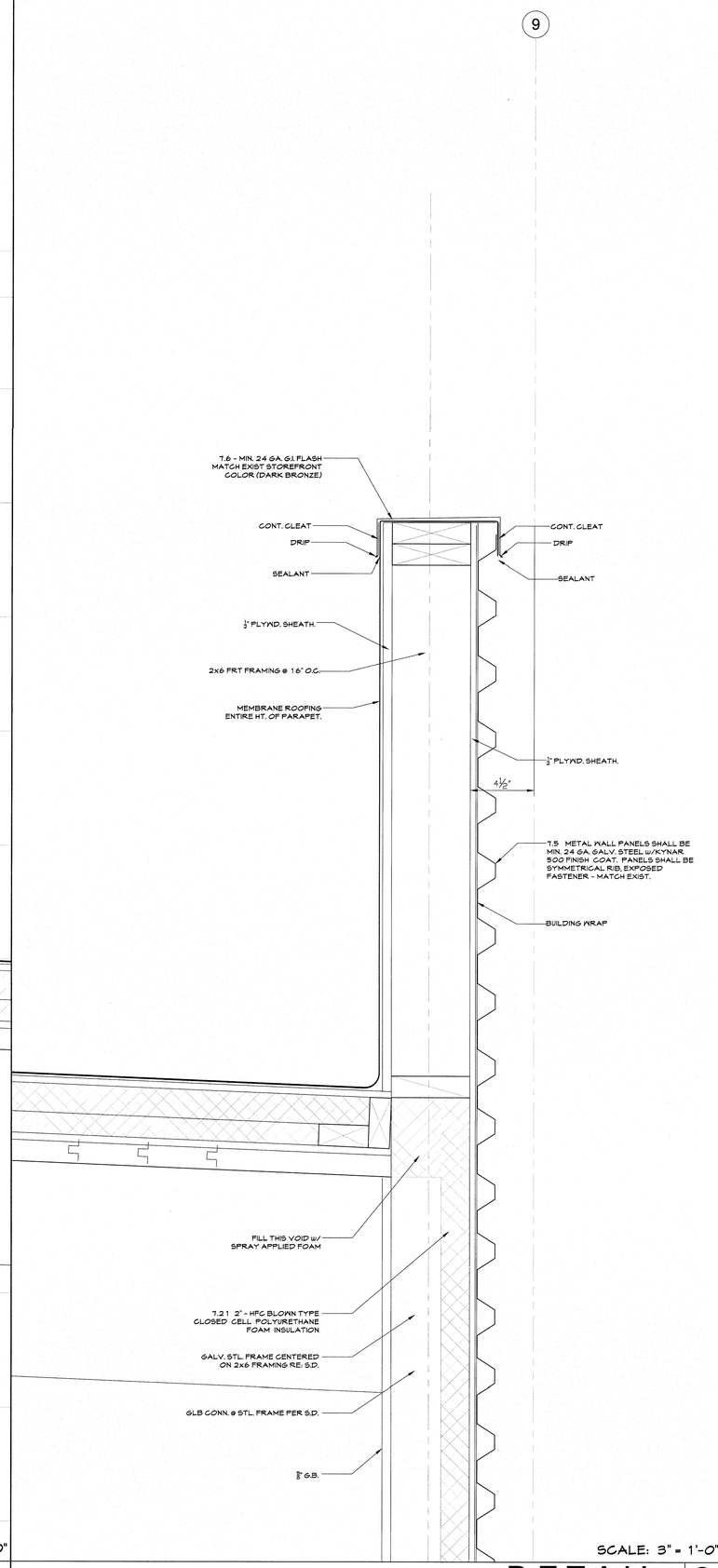
DETAILS

A5.6



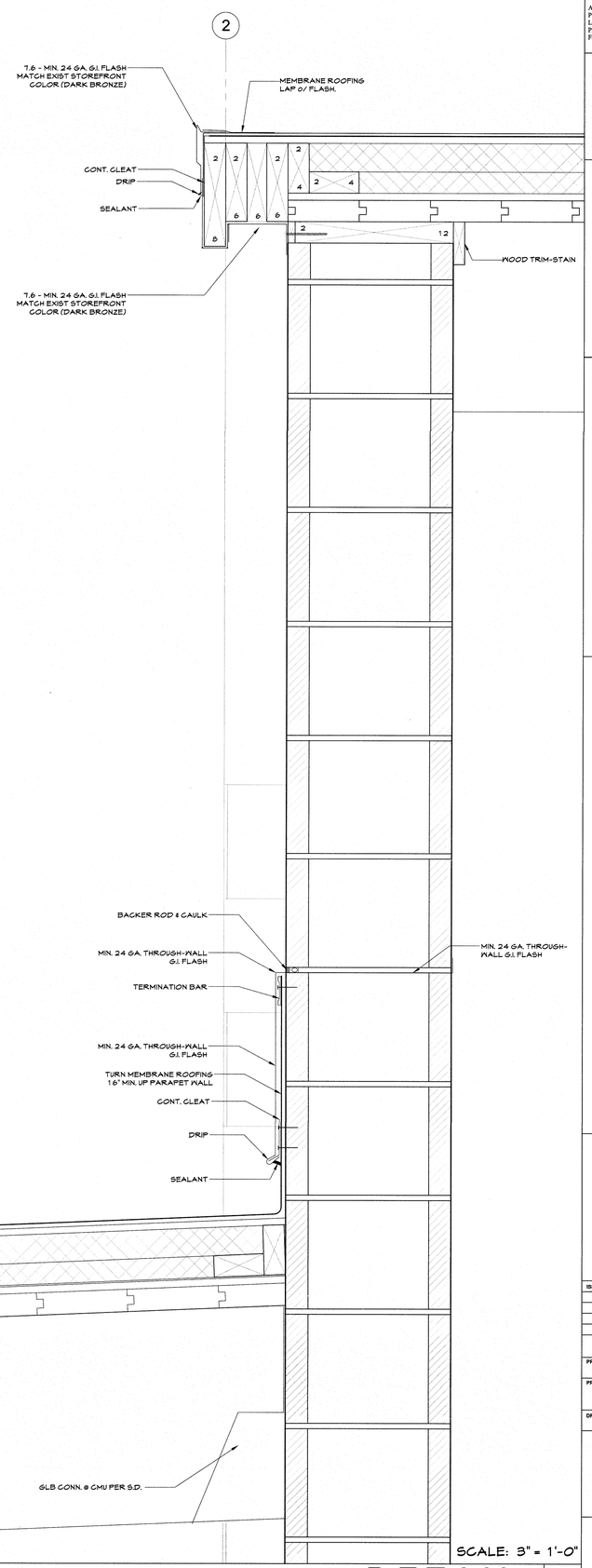
SCALE: 3" = 1'-0"

DETAIL 3



SCALE: 3" = 1'-0"

DETAIL 2



SCALE: 3" = 1'-0"

DETAIL 1

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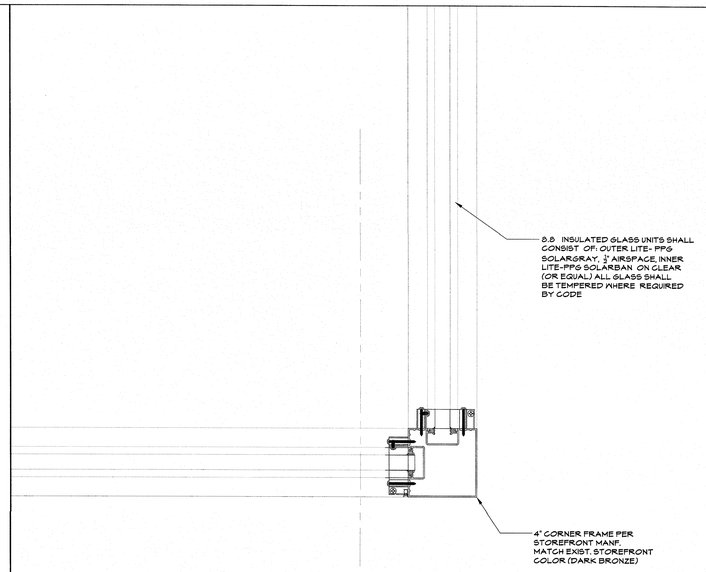
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PROJECT PHASE CONSTRUCTION DOCUMENTS

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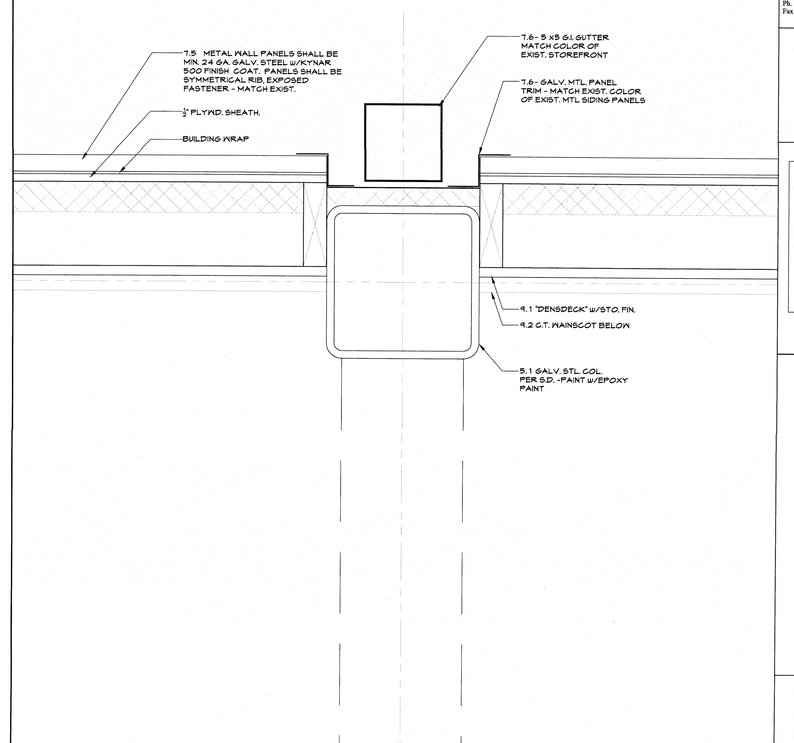
DETAILS

A5.7



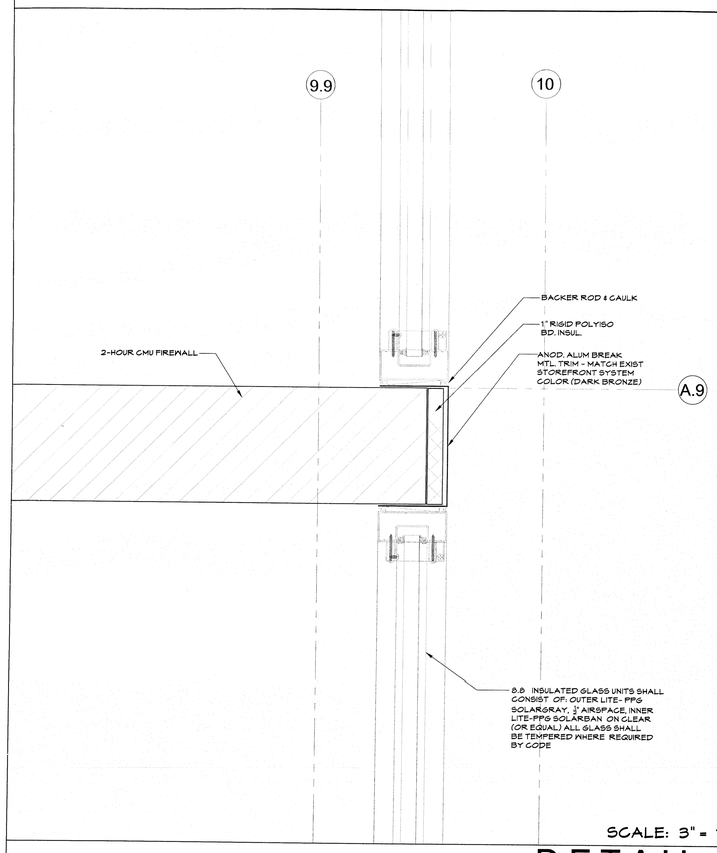
SCALE: 3" = 1'-0"

DETAIL 5



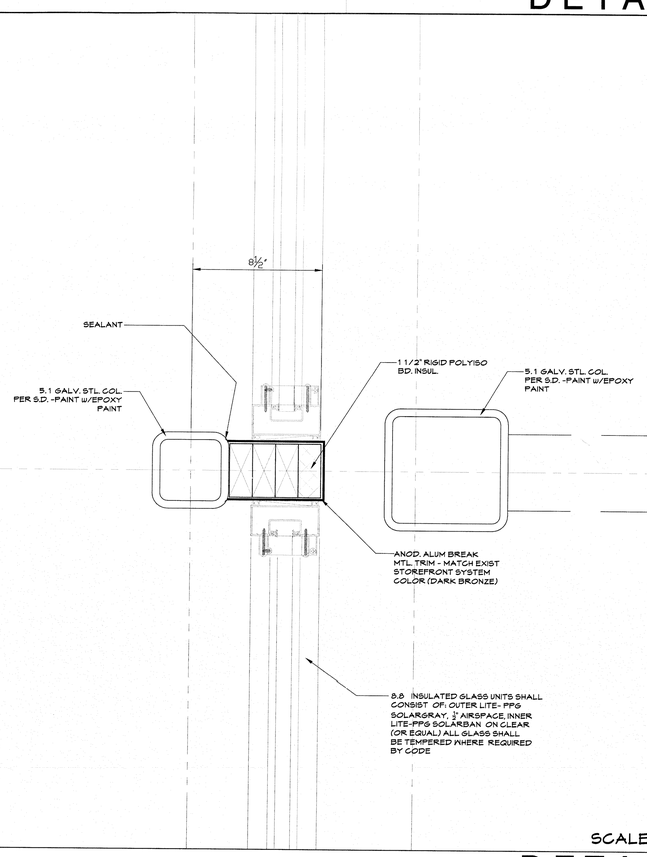
SCALE: 3" = 1'-0"

DETAIL 4



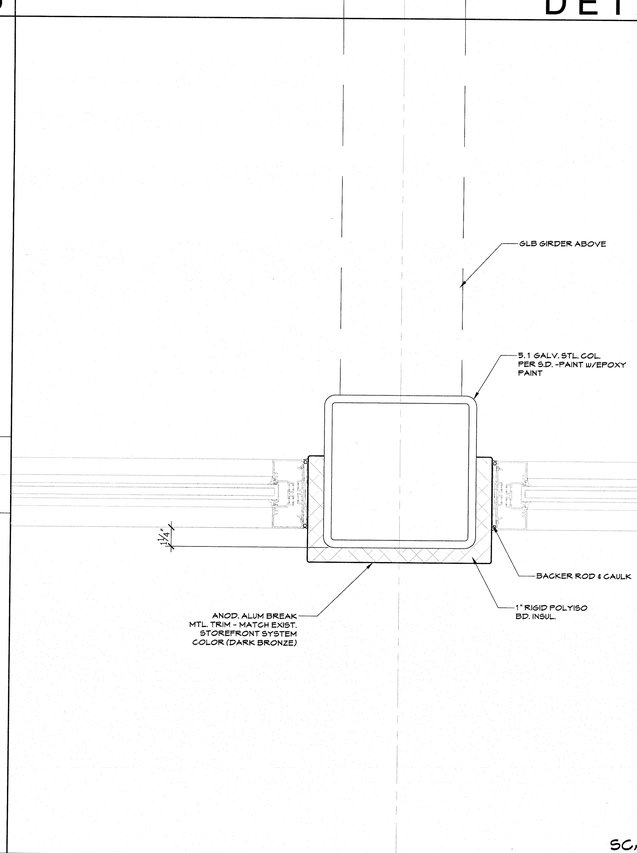
SCALE: 3" = 1'-0"

DETAIL 3



SCALE: 3" = 1'-0"

DETAIL 2



SCALE: 3" = 1'-0"

DETAIL 1

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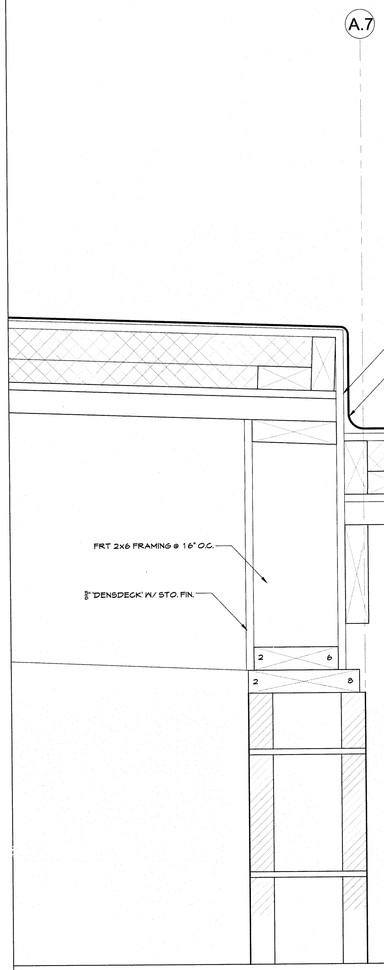
PROJECT NO. 163901 CFC

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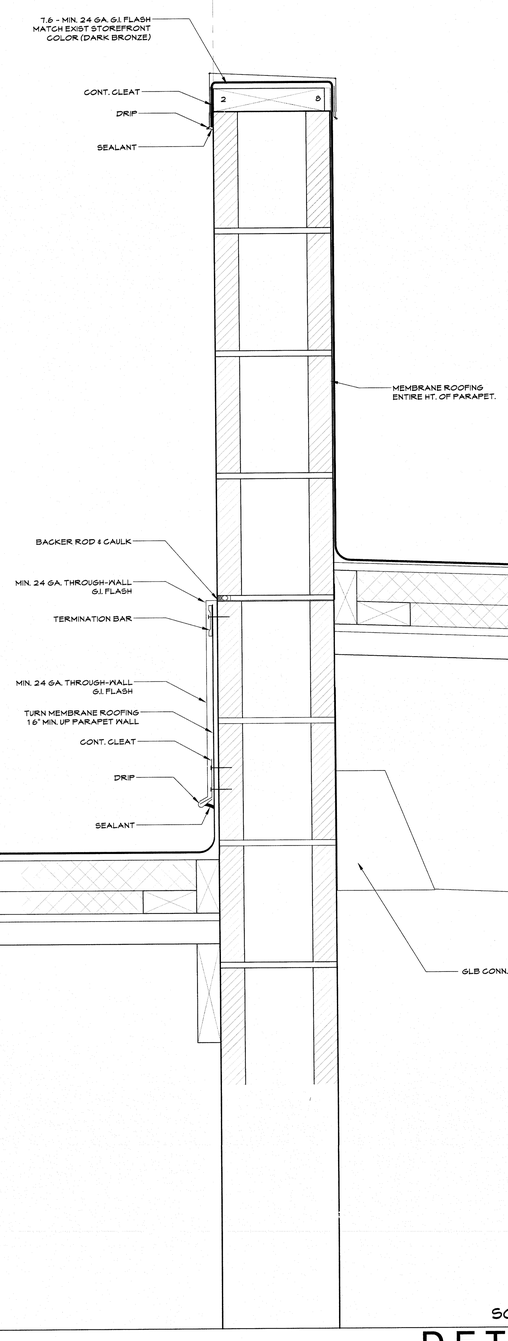
PLAN DETAILS

A5.8



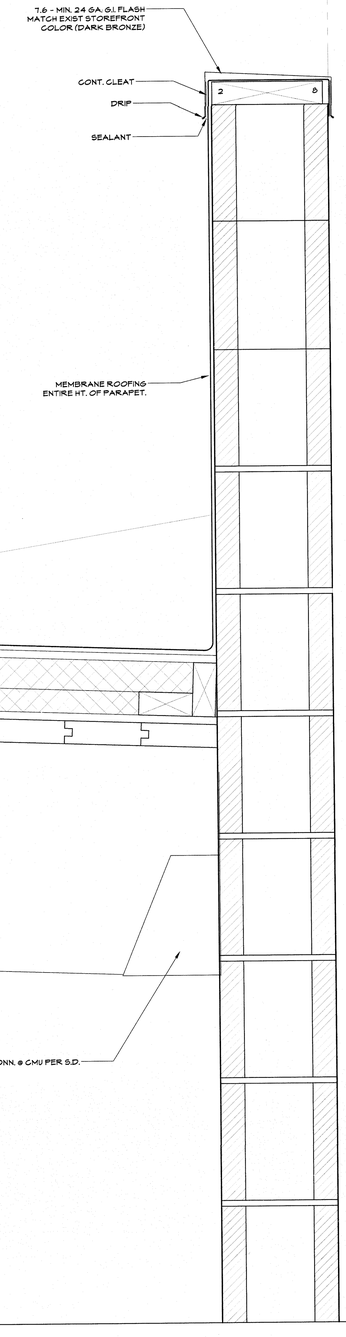
SCALE: 3" = 1'-0"

DETAIL 3



SCALE: 3" = 1'-0"

DETAIL 2



SCALE: 3" = 1'-0"

DETAIL 1

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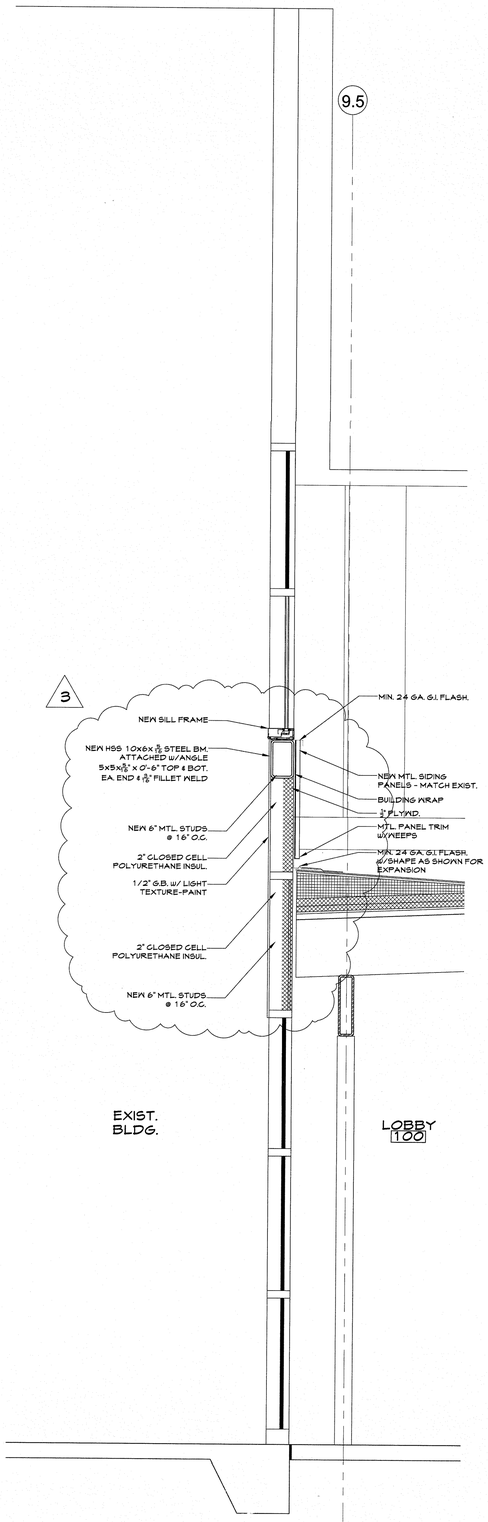
PROJECT NO. 163901 CFC

PROJECT PHASE CONSTRUCTION DOCUMENTS

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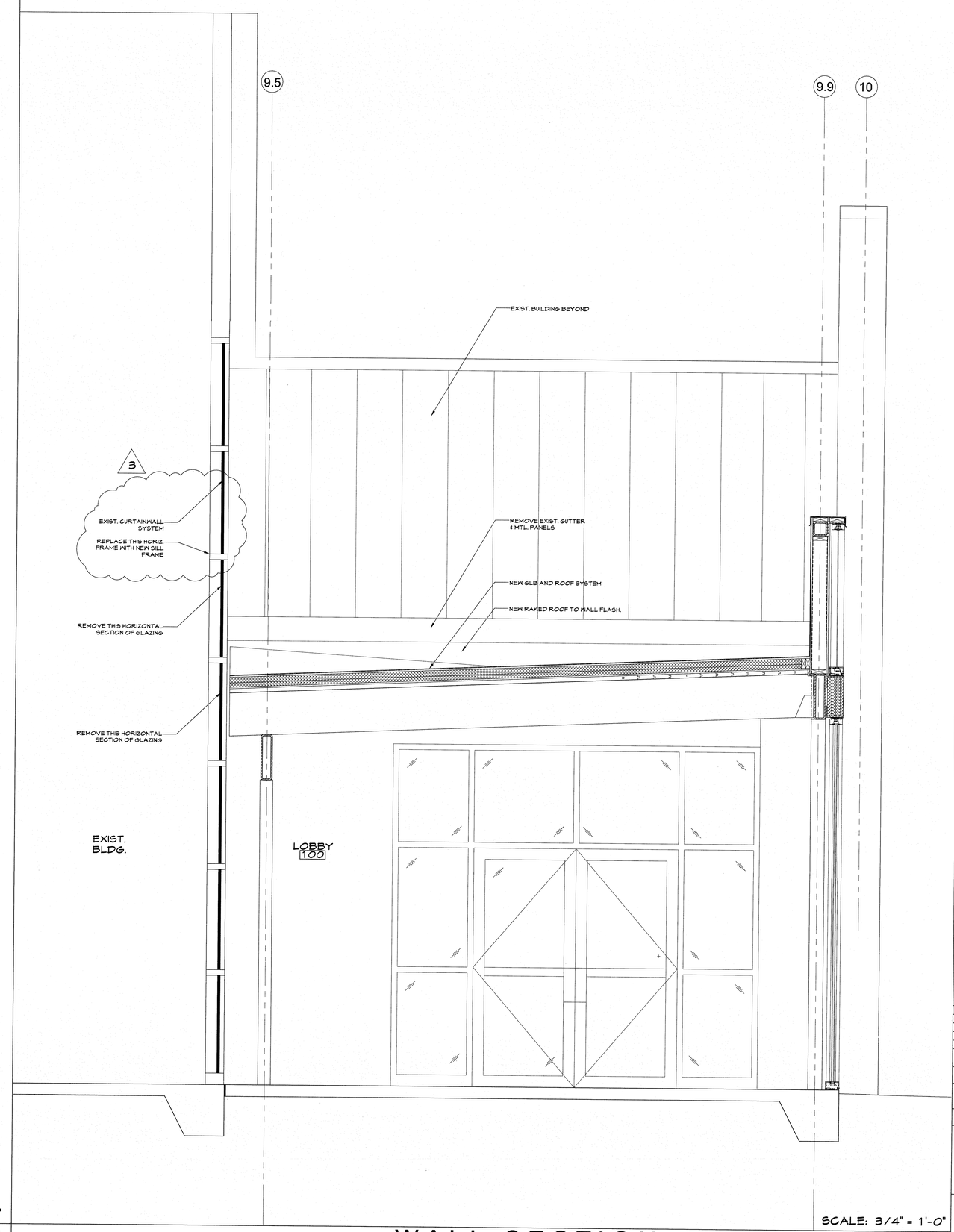
PARAPET DETAILS

A5.9



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

WALL SECTION 2



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

WALL SECTION 1

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C.D.	07 / 29 / 2016
ADDENDUM 3 (3)	04 / 03 / 2017
DATE	DESCRIPTION

PROJECT NO. 163901 CFC
PROJECT PHASE CONSTRUCTION DOCUMENTS
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WALL SECTIONS

A5.10

MATERIAL REFERENCE KEY

REF. NO.	ITEM	MANUFACTURER	REMARKS
1	LIGHT BROOM FINISHED CONCRETE-WITH 2-COATS APPLIED ACRYLIC SEALER		
2	WALK-OFF CARPET		
3	6" COVED RESILIENT BASE.		
4	CMU W/APPLIED SEALER		
5	CMU W/EPOXY PAINT		NOTE 2
6	"DENSSHIELD" TILE BACKER BOARD W/EPOXY PAINT	GEORGIA PACIFIC	NOTE 1
7	ANOD. ALUM. FRAME W/ 1" INSUL. GLASS OR ALUM. PANEL GLAZING	KAWNEER/PPG/LAMINATORS INC	
8	T&G SOLID WOOD DECKING W/STAIN PER MANF. O/GLB PURLINS O/GLB GIRDERS		NOTE 3
9	CERAMIC TILE WAINSCOT	DALTILE	NOTE 5
10	GYP. BD. LIGHT TEXTURE - PAINT		

FINISH SCHEDULE

ROOM NUMBER & NAME	FLOOR	BASE	WALLS				CLG.	CLG. HT.	
			N	E	S	W			REMARKS
100 LOBBY	1	3	EX.	7	5	10	8	VARIES	
100.1 CLOSET	1	3	10	10	10	10	8	VARIES	
101 OFFICE	1	3	10	10	10	10	8	VARIES	
102 CONCOURSE	1	3	5	7	5	-	8	VARIES	
103 VESTIBULE	1	3	5	5	5	5	8	VARIES	
104 FAMILY ROOM 1	1	3	5	5	5	5	8	VARIES	
105 JANITOR'S CLOSET	1	-	5	5	5	5	8	VARIES	
106 ELECTRICAL	1	-	5	5	5	5	8	VARIES	
107 CONCESSION	1	3	5	5	5	5	8	VARIES	
108 PARTY ROOM	1	3	5	-	7	5	8	VARIES	
109 NATATORIUM	1	3	6/9	5	7	5	8	VARIES	66" HIGH C.T. WAINSCOT
110 LIFEGUARD/TRAINING	1	3	5	5	5	5	8	VARIES	
111 POOL EQUIPMENT	1	-	5	5	5	5	8	VARIES	
112 FAMILY ROOM 2	1	3	5	5	5	5	8	VARIES	
113 JANITOR'S CLOSET	1	-	5	5	5	5	8	VARIES	
114 WOMEN	1	3	5	5	5	5	8	VARIES	
115 MEN	1	3	5	5	5	5	8	VARIES	
116 PATIO	1	-	7	-	-	-	8	VARIES	

NOTES

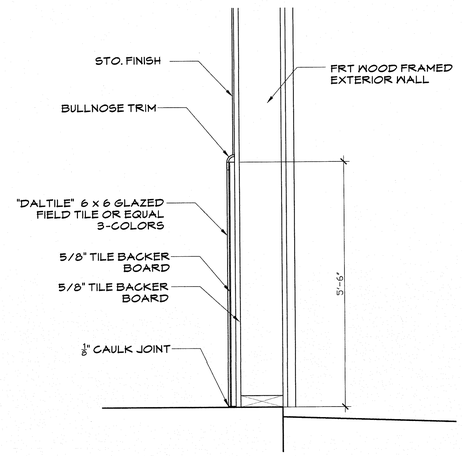
1. EXTERIOR FRAMED WALLS SHALL BE FINISHED ON THE INTERIOR W/ ⅝" "DENSSHIELD" (OR EQUAL) TILE BACKERBOARD-APPLY MIN. 2" FIBERGLASS MESH TAPE AT ALL JOINTS, EMBED IN "STO FLEXYL" GROUND COAT OR EQUAL. SKIM COAT THE ENTIRE SURFACE WITH "STO FLEXYL", PRIME W/"STO PRIMER", PAINT W/2-COATS "TILE CLAD II" EPOXY, 4.0 MILS DFT/COAT

2. INTERIOR CMU TO RECEIVE EPOXY PAINT SHALL FIRST BE PRIMED W/ONE COAT OF LATEX PRIMER 1.1 MILS DFT. THE FINISH COAT SHALL BE 2-COATS "TILE CLAD II" EPOXY, 4.0 MILS DFT/COAT

3. ALL EXPOSED GLB GIRDERS & PURLINS SHALL HAVE A WIRE BRUSH FINISH. GLB GIRDERS AND PURLINS & T&G SOLID WOOD DECKING SHALL BE STAINED. THE STAIN SHALL BE FACTORY APPLIED. THE INTERIOR GLB GIRDERS AND PURLINS SHALL HAVE TWO (2)-HEAVY SATURATION COATS OF VARNISH FIELD APPLIED. ALLOW THE FIRST COAT TO DRY THOROUGHLY BEFORE APPLICATION OF THE SECOND. ALL GLB AND DECKING SHALL BE F.T.

4. MOSAIC CERAMIC TILE AT CONC. COL. SHALL BE "CITY LIGHTS" BY DALTILE OR EQUAL-MANF. STANDARDCOLOR

5. CERAMIC TILE AT NORTH WALL NATATORIUM SHALL BE DALTILE 6x6 GLAZED FIELD TILE- MANF. STANDARD COLORS WITH 3-COLORS INDICATED AND WITH BULLNOSE FINISH



TILE WAINSCOT DETAIL

1 ½" = 1'-0"

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PROJECT NO.: 163901 CFC

PROJECT PHASE: CONSTRUCTION DOCUMENTS

DRAWN BY: CHECKED BY:

FINISH SCHEDULE

A6.1

GENERAL NOTES

DESIGN PARAMETERS:

Discrepancies - When discrepancies exist between the Design Drawings (including this sheet) and the Specifications, the more stringent of the two determined by the Engineer shall govern. When discrepancies exist between scale dimensions in the Design Drawings and the figures written in them, the figures shall govern.

1. Design Codes - (All latest editions unless noted):
   A. International Building Code (IBC 2012)
   B. American Society of Civil Engineers (ASCE 7-10)
      Minimum Design Loads for Buildings and Other Structures
2. Foundation
   A. The Geotechnical reports from MTA Engineers was dated July 1, 2015. Allowable bearing capacity of strip footings and pad footings of 2,500 PSF is recommended. The footings shall be founded a minimum of 24" beneath grade within the soils of stratum II. Some undercutting of building slab and footings can be expected. Geotechnical Engineer shall observe and review site conditions during construction to determine amount of undercut.
   B. If the soil is of questionable bearing value, the Engineer or Architect shall be notified immediately.
   C. After footing excavations are completed and before placing concrete, the excavated areas shall be inspected and approved by the Owner selected independent testing laboratory.
   D. The Soils Engineer is the sole judge of suitability of underlying material to support foundations and shall approve bearing material before foundation installation. See specifications.
   E. Coefficient of horizontal friction between concrete and soil = 0.35
   F. Minimum depth from exterior ground surface to bottom of foundations = 24 inches
   G. Prepare site and place fill in accordance with the recommendations in the soils report noted above. Observe construction recommendations noted in the soils report. All fill material shall be in accordance with soils report recommendations.
   H. Construct non-basement floor slabs on the granular fill layer required by the plan notes.
   I. Backfill basement and retaining walls with ASTM C-33 No. 57 stone or equivalent approved by the soils Engineer. Extend stone from the base of walls outward at a 45 degree angle to the vertical.
   J. Backfilling:
      -Do not backfill basement walls and grade beams until bracing floors are in place or temporary bracing is installed.
      -Backfill in even lifts alternating from side to side.
      -Backfill under foundations with concrete or as approved by soils Engineer.
3. Roof Load:

A. Roof Dead Loads	20 psf
B. Roof Live Load	20 psf (Unreducible)

4. Wind Load: (IBC 2012)

A. Wind Speed	120 mph
B. Wind Exposure Category	C
C. Wind Importance Factor	1.15

5. Snow Load: (IBC 2012)

A. Ground Snow Load	10 psf
B. Exposure Coefficient Ce	1.0
C. Thermal Factor Ct	1.0
D. Importance Factor for Snow I	1.1
E. Roof Slope Factor Cs	1.0
F. Min. Roof Snow Load	Pf = 11 psf

6. Seismic Load: (IBC 2012)

0.2 Sec Spectral Acceleration	Ss = 0.5974	
0.2 Sec Site Coefficient	Fa = 1.32	
0.2 Sec Design Acceleration	Sds = 0.527	
1.0 Sec Spectral Acceleration	S1 = 0.2215	
1.0 Sec Site Coefficient	Fv = 1.96	
1.0 Sec Design Acceleration	Sd1 = 0.289	
Site Class	C	
Occupancy Category	III	
Seismic Importance Factor	I = 1.25	
TMS 402-11 Seismic Provisions	YES	
AISC Seismic Provisions	YES	
Seismic Design Category	D	
Basic Structural System	Bearing Wall Systems	Building Frame Systems
Seismic Force Resisting System	Special Reinforced Masonry Shear Walls	Ordinary Steel Morment Frames
Response Modification Factor	R= 5 1/2	R= 3 1/2
Deflection Amplification Factor	Cd=4	Cd=3
Analysis Procedure	Equivalent Lateral Force Procedure	

Non-Structural Component Seismic Exemption:
A. Architectural Components:
   Architectural components with an Ip=1.0 are exempt from seismic requirements. (SDC=D)
B. Mechanical and Electrical Components:
   Mechanical and electrical components are exempt from from seismic requirements of ASCE 7. (SDC=D)

   Mechanical and electrical components with an Ip=1.0 and either components are mounted 4 ft or less above a floor level and weigh 400 lb or less or flexible connections between the components and the associated duct work, piping and conduit.

   Mechanical and electrical components with an Ip=1.0 and the components weight 200 lb or less or for distribution systems weighing 5 lb/ft or less.

Component Seismic Importance Factor:
The component importance factor Ip shall be =1.5 if any of the following conditions apply:
A. The component is required to function for life-saftey purposes after and earthquake, including fire protection sprinkler systems.
B. The component contains hazardous materials.
C. The structure is in or attached to an occupancy category IV structure and it is needed for the continued operation of the faciility. All other components shall be assigned and importance factor Ip=1.0.

I hereby certify that the structural plans submitted herewith are designed with the structural load carrying elements to resist the anticipated forces of the designated seismic zone in which the structure is located in accordance with Arkansas Code Annotated 12-80-101 et. seq.

Date: July 29 ,2016

Wendu "Roger" Yin, P.E., S.E.
Arkansas Registration No. 9260

GENERAL INFORMATION:

1. All columns shall be centered on grid lines unless noted otherwise.
2. All column footings shall be centered on columns unless noted otherwise.
3. All wall footings shall be centered on walls unless noted otherwise.
4. Unless otherwise noted or detailed, concrete pads for mechanical equipment shall be 4" thick (minimum) and reinforced with #3 @ 12" OC each way centered.
5. Substitution of expansion anchors for embedded anchors shall not be permitted, Unless Approved by Engineer.
6. Contractor is responsible for coordinating weights, size, and location of actual mechanical units ordered.
7. Unless Directed Otherwise By Geotechnical Engineer all fill material under structure shall be sandy clay or clayey sand exhibiting a liquid limit less than 35. Fill material shall be placed in loose lifts not to exceed 8" and compacted to a density of not less than 95% of Modified Proctor Maximum Dry Density (ASTM D-1557) at or slightly wet of optimum moisture content. In place moisture and density of each lift shall be determined by in-situ field tests prior to placing additional fill.
8. Permanent stability of the building and components is not provided until the erection is completed as shown on the contract drawings. Erection stability and temporary supports required for construction including guys, braces, and shoring are the responsibility of the contractor.
9. Testing:
   A. Refer to specifications for specific requirements regarding sampling and testing.
   B. Where sampling and testing requirements are omitted from the specifications sample and test concrete as follows:
      B1. Contractor shall engage a testing laboratory acceptable to the owner and Architect. Test conducted shall be paid for by the contractor.
      B2. Prepare field samples of 4 compressive test cylinders in accordance with ASTM C31 and one slump test for each class of concrete placed each day. Samples shall be taken not less than once per day for each 50 cubic yards of concrete. Test for cylinders shall be conducted one at 7 days and 2 at 28 days, with remaining cylinders retained for future testing in case of low test results.
10. Before construction starts, contractor shall coordinate with owner to identify all underground utility lines and protect them from any damage during construction.

STRUCTURAL ALLOWANCES:

STRUCTURAL REVISIONS:
1. The contractor shall allow for $5,000 (Five Thousand Dollars) for any revisions requested by the structural engineer during construction or review of shop drawings. Provide additional misc. steel angles, channels, wide flange shapes, HSS shapes, plates, rods, shear studs, rebar, concrete, bar joists, anchors, bolts, decking, grating, etc. as directed by the EOR for use in the field.
2. Allowance to include total cost of work including materials, labor, installation, taxes, insurance, overhead & profit, and delivery.
3. Claims for extra costs associated with additional structural items will not be entertained until the entire allowance is first used.
4. At the project close-out, credit all unused amounts of the allowance to the Owner by Change Order Credit.

SPECIAL INSPECTION AND TESTING:
1. The contractor shall allow for 1% of total construction cost for Special Inspection Items & Testing Services. Refer to sheet S0.2 for an outline of required services. This will consist of on-site inspection and testing of slabs, foundations, concrete reinforcing, steel framing & connections, CMU walls, and other misc. structural items.
2. Items found to be deficient or not in compliance with the contract drawings shall be corrected at no cost to the Owner. Structural allowances shall not be used for correcting work.
3. Contractor shall pay for Special inspections and testing based on payment requests from the inspection and testing firm incorporating their standard hourly rates.
4. Claims for extra costs associated with testing and inspection will not be entertained until the entire allowance is first used.
5. At the project close-out, credit all unused amounts of the allowance to the Owner by Change Order Credit.

CAST-IN-PLACE CONCRETE:

1. Minimum Concrete Compressive Strengths:

A. Footings	f'c = 3,000 psi at 28 days. Max w/c=0.58
B. Interior Slabs-On-Grade	f'c = 4,000 psi at 28 days. Max w/c=0.45
C. Ext Exposed Concrete	f'c = 3,500 psi at 28 days. Max w/c=0.48 (Air Entrained)

2. Before concrete is placed reinforcement shall be secured against displacement within tolerances permitted in section 7.5.2 of ACI code.
3. Where lap splices are required of deformed bars and not specifically indicated on drawings, splices shall be class B splice.
4. When bars of different size are lap spliced, the splice length shall be based upon larger bar.
5. Concrete protective covering for reinforcement at surfaces not exposed directly to the ground shall be ¾" for slabs, joists, and walls and 1½" for beam stirrups and column ties or spirals. Do not "wet stick" dowels.
6. The following minimum concrete cover shall be provided:
   A. Concrete cast against and permanently exposed to earth..... 3"
   B. Concrete exposed to earth or weather - No. 6 thru No. 18..... 2"
   C. Concrete exposed to earth or weather - No. 5 and smaller..... 1½"
   D. Concrete not exposed to earth or weather:
      slabs, walls, joists No.14 and No. 18..... 1½"
      slabs, walls, joists No.11 and smaller..... ¾"
7. Location and sizes of openings, sleeves, etc. required for other trades must be verified by these trades before placing concrete.
8. Contractor is responsible for "means and methods" of construction and shall provide adequate shoring to prevent collapse or damage to structural elements during construction.
9. Omit fly ash on all floor slabs in cold weather.
10. Fine and course aggregates shall be evaluated and tested by the contractor for alkali aggregate reactivity in accordance with ASTM C-1260. Test results that have a measured expansion less than 0.10% at 28 days meet the requirements of these specifications. For expansions greater than 0.10% the aggregate shall be rejected or additional testing per ASTM C-1567 shall be performed by the contractor. For expansions greater than 0.20% aggregate shall be rejected.
11. Fly ash content shall not exceed 25% of the total weight of cement plus fly ash.
12. Refer to the bar splice schedule for typical splice lengths.

LAP SPLICE SCHEDULE (UNLESS NOTED OR DETAILED OTHERWISE

	f'c=8000		f'c=6000		f'c=5000		f'c=4000		f'c=3000	
BAR SIZE	TOP BARS*	OTHER BARS	TOP BARS*	OTHER BARS	TOP BARS*	OTHER BARS	TOP BARS*	OTHER BARS	TOP BARS*	OTHER BARS
#11	80"	62"	93"	71"	101"	78"	113"	87"	131"	101"
#10	72"	56"	83"	64"	91"	70"	102"	79"	118"	91"
#9	64"	49"	74"	57"	81"	63"	91"	70"	105"	81"
#8	57"	44"	66"	51"	72"	55"	80"	62"	93"	72"
#7	50"	38"	58"	44"	63"	49"	70"	54"	81"	63"
#6	34"	26"	40"	31"	43"	33"	48"	37"	56"	43"
#5	29"	22"	33"	25"	36"	28"	40"	31"	47"	36"
#4	23"	18"	26"	20"	29"	22"	32"	25"	37"	29"

*TOP BAR LAP SPLICES ONLY OCCUR IN CONCRETE BEAMS

CONCRETE SLAB ON GRADE:

1. Provide a 4-inch clean medium-to-coarse gravel compacted drainage fill below all interior slabs-on-grade unless noted or detailed otherwise.
2. A 10-mil minimum polyethylene film vapor retarder shall be placed below all interior slabs-on-grade.
3. Cut 75% of welded wire fabric or deformed rebar 3 inches on either side of a saw-cut or construction control joint.
4. Provide bolsters or supports as needed to maintain reinforcement at proper location in slab.
5. Maximum water cement ratio shall not exceed the amount specified.
6. Saw cutting control joints shall proceed as soon as possible without chipping or spalling concrete. Lapsed time between casting and saw-cutting shall not exceed 8 hours. The length to width ratios of slab areas shall not exceed 1.25. The max area of slab without joints shall be 250 sq. ft.
7. Refer to specifications and Architectural drawings for slab finish requirements.

SLAB FLATNESS AND LEVELNESS:

1. Slabs on grade shall comply with either the straight edge tolerance or the F-number tolerances outlined below for flatness and levelness per ACI 117. The tolerance shall be confirmed by field testing.
2. Elevated floors shall comply with the moderately flat design for FF only. The FL levelness tolerance shall not apply to slabs placed on unshored form surfaces or shored form surfaces after removal of shores, nor to cambered or inclined surfaces. FF and FL shall be tested in accordance with ASTM E 1155. Straight edge shall be placed on two high spots anywhere on slab surface and measurement taken. Sampling shall be per ACI 117 and not less than 1 measurement per 100 sq. ft. Measurements must be taken and results supplied to contractor within 72 hrs. of pouring.
3. Unless specifically defined otherwise on the drawings, the floor profile category shall apply to the following building types:

A.	Conventional :	utility buildings not to receive finishes
B.	Moderately Flat :	low speed traffic areas, elevated floor slabs
C.	Flat :	churches, schools, office buildings, retail, any floor to receive finishes
D.	Very Flat :	industrial floors, floors subject to forklifts, gymnasiums
E.	Super Flat :	special use floors including TV studios, warehouse traffic aisles

F-NUMBERS FOR VARIOUS FLOOR PROFILE CATEGORIES				
	Specified Overall Value		Minumum Local Value	
Floor Profile Category	FF	FL	FF	FL
Conventional	20	15	13	10
Moderately Flat	25	20	15	12
Flat	35	25	21	15
Very Flat	45	35	27	21
Super Flat	60	40	36	24

REQUIRED DEPTH BELOW 10 FOOT STRAIGHT EDGE		
	Maximum Gap	
	90% Compliant	100% Compliant
Conventional	1/2"	3/4"
Moderately Flat	3/8"	5/8"
Flat	1/4"	3/8"
Very Flat	N/A	N/A
Super Flat	N/A	N/A

EXPANSION JOINT FILLER:

1. Non-extruding pre-molded material composed of fiberboard impregnated with asphalt conforming to the requirements of ASTM D1751.

CONCRETE MASONRY:

1. Material specifications:

Concrete Masonry Units	f'm = 1500 psi
Grout	f'c = 3000 psi
Mortar	Type S (ASTM C476)
Reinforcing Bars	Grade 60 (ASTM A615)
Reinforced Wire	ASTM A82

2. Load bearing CMU shall be light weight type 1 and conform to ASTM C90.
3. Grout shall conform to ASTM C476 and be tested in accordance with ASTM C1019.
4. Mortar shall comply with Table 1, Proportion specification requirements of ASTM C270.
5. Masonry joint reinforcement shall be welded wire units in lengths not less than 10 feet, with matching corner and tie units. Reinforcement shall be w2.8 (9 gage) ladder or truss type with deformed continuous side rods and plain cross rods and shall have a width of 1½" to 2" less than thickness of wall or partition. reinforcement shall be placed at first bed joint above and below concrete slabs and spaced no more than 16" oc unless noted otherwise in contract documents.
6. Refer to Architectural elevation drawings for location of wall control joints. If wall control joints are not shown on contract drawings place interior and exterior wall control joints at spacings not to exceed 30 feet on center.
7. Vertical CMU cells scheduled for filling with grout shall be kept clean of mortar droppings and debris. The unobstructed opening shall not be less than 2" x 3" on plan dimension.
8. Provide vertical reinforcing, same size as adjacent bar, at: Corners, ends, jambs, each side of control and expansion joints.
9. Continue vertical reinforcing floor to floor (or roof) and extend to top of parapet.
10. Provide standard hooks on bars terminating into a masonry face:
    -in walls at openings, heads, jambs, expansion joints, and ends.
    -in beams at top, bottom, and ends.
11. Coordinate block-outs, reveals, holes, openings and built in items with all contract documents and trades.
12. Coordinate with architect the masonry block type required at fire walls.
13. Unless otherwise noted on drawings, top of CMU walls shall have masonry bond beam filled w/ grout and reinforced with 2-#5. Vertical reinforcing shall extend into bond beam w/ std hook.
14. Corrosion protection for carbon steel accessories used in exterior wall construction or interior walls exposed to a mean relative humidity exceeding 75 percent shall comply with current building code requirements for masonry structures (TMS 402-11 / AISC 530-11 / ASCE 5-11). Specifically steel items exposed to wet conditions noted shall be stainless steel, hot dip galvanized, or epoxy coated. Wall ties, anchors, and inserts may be mill galvanized, hot dip galvanized, or stainless steel

MANUFACTURED GLUE LAMINATED BEAMS "GLB":

1. Glue-Laminated timber shall be designed in accordance with the AITC, Timber Construction Manual, Latest Edition, and the NDS, National Design Specifications for stress-graded lumber.
2. Comply with the "Structural Glue-Laminated Timber" ANSI/AITC A190.1 - Latest Edition.
3. Lumber:

A. Species	-	Southern Pine
B. Combination	-	24F-V5 (Balanced) U.N.O. for beams
		24F-V3 U.N.O. for lintels
C. Modules of Elasticity	-	E = 1,800 ksi
D. Moisture Content	-	7% - 15%

4. Adhesive shall be wet-use (waterproof) complying with ANSI/AITC A190.1.
5. Provide sizes and shapes as shown on plans. Final cross sections will be based on manufacturer's standard widths and depths. Manufacturer to provide design stresses to fulfill structural demand in accordance with applicable provisions of AITC 117.
6. Provide AITC Industrial Appearance Grade when members are not exposed to view. Provide AITC Architectural Appearance Grade when members are exposed to view.
7. Immediately after end-cutting each member to final length, apply a saturation coat of end sealer to ends and all other cross-cut sections.
8. Comply with AITC III - "Recommended practice for protection of structural glue-laminated timber during transit, storage and erection."
9. Laminated members shall be individually wrapped in a moisture resistant wrap paper for protection. Wrapping shall remain on members until it will serve no useful purpose, including protection from weather, soiling, and damage from work of other trades.

WOOD ROOF SHEATHING:

1. Provide continuous support along all ridge lines, valleys and hips. Provide 2x blocking where solid framing members do not occur at these locations. Cover sheathing as soon as practical with roofing felt.
2. All roof deck shall be APA rated structural grade I exterior sheathing.
3. Stagger all joints of panels with long dimensions perpendicular to supports. Provide aluminum panel "H" clips at midspan of panels between each truss or rafter. Leave ⅛" space at all panel edges and end joints unless otherwise recommended by manufacturer.

WOOD FRAMING:

1. Provide 15lb roofing felt or other approved moisture barrier under all wood plates bearing on masonry or concrete.
2. All joists and rafters unless noted otherwise on drawings shall be secured to bearing plate with one Simpson H3 tie or approved equal.
3. Where connections for wood members are not specifically shown on drawings provide fasteners as indicated in table 2304.9.1 of the International Building Code.
4. Where headers are not specifically shown on drawings, provide header sizes as indicated in tables 2308.9.5 and 2308.9.8 of the International Building Code.
5. Unless noted otherwise on drawings, wood framing shall comply with the following species & grade:

ITEM	SPECIES	GRADE
Headers	SYP	No. 2
Floor Joists	SYP	No. 2
Rafters	SYP	No. 2
Built-up Beams	SYP	No. 2
Built-Up Columns	SYP	No. 2
Load bearing Walls	SPF	Stud
Columns	SYP	No. 2

6. Fasteners in preservative treated wood and fire-treated wood shall be hot dipped galvanized, stainless steel or other approved specifically designed for attachment in corrosive environments.

STRUCTURAL ABBREVIATIONS:

ADD	ADDENDUM	LW	LONG WAY
ADDL	ADDITIONAL	LP	LOW POINT
ALT	ALTERNATE	MFR	MANUFACTURER
AB	ANCHOR BOLT	MK	MARK
&	AND	MSRY	MASONRY
ANG	ANGLE	MBA	MECHANICAL BAR ANCHOR
ARCH	ARCHITECT	MBM	MTL BUILDING MANUF.
AT	AT	MBS	MECHANICAL BAR SPLICE
@	BASE PLATE	MO	MASONRY OPENINGS
BP	BEAM	MTL	MATERIAL
BM	BEARING	MIN	MINIMUM
BRG	BOTTOM	MISC	MISCELLANEOUS
BOT	BOTTOM / BACK OF	NF	NEAR FACE
B/	BUILDING	NS	NEAR SIDE
BLDG	CAST IN PLACE	NWL WT	NORMAL WEIGHT
CIP	CEILING	NIC	NOT IN CONTRACT
CLG	CENTER OR CENTERLINE	NTS	NOT TO SCALE
C OR CL	CENTER TO CENTER	OC	ON CENTER
C/C	CLEAR	OPNG	OPENING
CLR	COLUMN	OPP	OPPOSITE
COL	COMPLETE PENETRATION	OPP H	OPPOSITE HAND
CP	CONCRETE	OF	OUTSIDE FACE
CONC	CONC MASONRY UNIT	PL	PLATE
CMU	CONNECTION	PP	PARTIAL PENETRATION
CONN	CONSTRUCTION	RAD	RADIUS
CONST	CONTROL JOINT	RECT	RECTANGULAR
CJ	CONTINOUS	REF	REFERENCE
CONT	CONTRACTOR	RE	REFER TO
CONTR	DEFORMED BAR ANCHOR	REINF	REINFORCING
DBA	DECK BEARING	REQ'D	REQUIRED
DBE	ELEVATION	REV	REVISION
DL	DEAD LOAD	SCHED	SCHEDULE
DET	DETAIL	SECT	SECTION
DIAG	DIAGONAL	SW	SHORT WAY
DIA OR Ø	DIAMETER	SIM	SIMILAR
DIM	DIMENSION	SL	SLAB
DWLS	DOWELS	SOG	SLAB ON GRADE
DN	DOWN	SPA	SPACE, SPACING OR SPACES
DWG	DRAWINGS	SPECS	SPECIFICATIONS
DP	DRILLED PIER	SQ	SQUARE
EA	EACH	STD	STANDARD
EE	EACH END	STL	STEEL
EF	EACH FACE	SDI	STEEL DECK INSTITUTE
ES	EACH SIDE	SJI	STEEL JOIST INSTITUTE
EW	EACH WAY	STRUCT	STRUCTURE OR STRUCTURAL
EL	ELEVATION	SYMM	SYMMETRICAL
EQ	EQUAL	SYP	SOUTHERN YELLOW PINE
EJ	EXPANSION JOINT	THK	THICKNESS
EXT	EXTERIOR	T	TOP
FF	FAR FACE	T/	TOP OF
FIN	FINISH	T/C	TOP OF CONCRETE
FS	FAR SIDE	T/F	TOP OF FOOTING
FLR	FLOOR	T/J	TOP OF JOIST
FTG	FOOTING	T/L	TOP OF LEDGE
FDN	FOUNDATION	T/P	TOP OF PILASTER
GALV	GALVANIZED	T/SL	TOP OF SLAB
GA	GAUGE or GAGE	T/SOG	TOP OF SLAB ON GRADE
HT	HEIGHT	T/S	TOP OF STRUCTURAL STEEL
HP	HIGH POINT	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
IF	INSIDE FACE	VERT	VERTICAL
INT	INTERIOR	WB	WIND BRACE
JBE	JOIST BEAING ELEVATION	WWF	WELDED WIRE FABRIC
JT	JOINT	WF	WIDE FLANGE
JST	JOIST	W/	WITH
K OR k	KIP = 1,000lbs	W/O	WITHOUT
LB	POUND	WP	WORK POINT
LT WT	LIGHT WEIGHT	WS	WATER STOP
LL	LIVE LOAD	WT	WEIGHT
LONG	LONGITUDINAL		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
WENDU YIN
7/29/16

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FORREST CITY
AQUATIC CENTER
CITY OF FORREST CITY

DATE	REVISION

SURVEY BY:
DESIGN BY: RY
DRAWN BY: CS
CHECKED BY: RY
DATE: 7-29-16
JOB NO: 163901 CFC
GENERAL NOTES
SHEET: S001

REC
ROBBINS ENGINEERING CONSULTANTS
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TESTING / INSPECTION

STRUCTURAL OBSERVATION REQUIREMENTS:

1. A representative of the engineer of record will perform structural observation of the elements and connections of the structural system at critical stages of construction and the completed structure for general conformance with the approved plans and specifications. Structural observation does not waive the responsibility for the inspections required required of the building official or the special inspectors.
2. A pre-construction meeting shall be held and attended by the design architect or engineer, the engineer who will perform the structural observation, the contractor and affected sub-contractors and the special inspectors.
3. The general contractor shall notify the structural engineer of record at least 48 hrs. prior to completing construction operations that require structural observation by calling (501) 664-7575 to schedule a site visit.
4. At a minimum, the following significant construction stages require a site visit and an observation report from the structural observer.
   Construction Stages

A. At the first day of pier drilling and installation.
B. After installation of foundation reinforcing and before concrete placement
C. After installation of concrete grade beam reinforcing and before concrete placement.
D. After installation of masonry wall reinforcing and before grouting of first lift of masonry
E. After installation of reinforcing for elevated concrete and before placing concrete.
F. After erection of structural steel and before metal deck placement.
G. After installation of metal roof deck and before roofing installation.

SPECIAL INSPECTION NOTES:

Provide special inspections for the following items per section 1704 of the IBC and section 014000 of the project specifications. The approved independent testing agency's individual special inspector shall demonstrate competence for inspection of particular type of construction or operation requiring special inspection and shall meet the minimum special inspector qualifications in section 1704 of the IBC. The special inspector shall bring non-conforming items to the immediate attention of the contractor in writing and note all such items in the reports. Any unresolved item about to be covered by the work shall be brought to the contractor's and the owner's construction manager's attention immediately. The special inspector shall furnish reports, tests and inspections directly to the architect of record, the owner's construction manager, and the contractor. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspectors knowledge, in conformance with the approved plans and specifications. The contractor is responsible for notifying the special inspection agency regarding individual inspection for items listed on the schedule and as noted on the building department approved plans. Adequate notice and access to approved plans shall be provided so that the special inspector has time to become familiar with the project.

SHOP DRAWING SUBMITTAL PROCEDURES:

1. Transmit submittals in advance of related construction activities to avoid unnecessary delays. The structural engineer for this project may withhold action on a submittal requiring coordination with other submittals until all related submittals are received.
2. Submit one electronic portable document format (.pdf) copy through the architect for the "Shop Drawing" review. The electronic copy will be marked up by the structural engineer of record. One electronic copy will be kept by the engineer and an additional copy will be transmitted to the architect. The architect will transmit a copy to the contractor. The contractor will make additional hard copies as required for his/her needs.
3. Action Stamp: The engineer of record will stamp each submittal with a uniform action stamp to indicate the action taken in one of five options:
   - ***Permitted*** : Work covered by the submittal generally complies with the requirements of the contract documents.
   - ***Permitted and Corrections Noted*** : Work covered by the submittal may proceed provided it complies with the notations or corrections on the submittal and requirements of the contract documents.
   - ***Submit Specified Item*** : Comply with the content of the specifications for the indicated item(s)
   - ***Revise and Resubmit*** : Work covered by the submittal does not comply with the requirements of the contract documents and must be changed to comply and resubmit the entire submittal, or portions specified otherwise.
   - ***Rejected*** : Work covered by the submittal is unacceptable and may not proceed.
4. Contractor shall comply with Division One Section - "Submittals"
5. No reproductions of construction documents are acceptable for use as shop drawings.

STATEMENT OF SPECIAL INSPECTIONS:

This statement of Special Inspections / Quality Assurance Plan includes the following building systems:
1. SOILS & FOUNDATIONS
2. CAST-IN-PLACE CONCRETE
3. STRUCTURAL STEEL
4. SPECIAL CASES

GENERAL NOTES:
The Inspectors and testing agencies shall be engaged by the Owner or the Owner's Representative, and not by the Contractor or Subcontractors whose work is to be inspected or tested. Any conflicts of interest must be disclosed to the Building Official prior to commencing work.

The qualifications of all personnel performing Special Inspections and testing activities are subject to the approval of the Building Official and the E.O.R. The credentials of all inspectors and test technicians shall be provided if requested.

The special inspectors shall keep records of inspections and shall furnish inspection reports to the Owner, Engineer of Record, and Architect of Record. Field and testing result reports shall be submitted to all designated parties as they are completed. The reports shall indicate that the work performed was done in accordance to the construction documents and drawings. Discrepancies shall be brought to the attention of the general contractor for correction and shall be corrected at the contractor's expense. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the E.O.R. and A.O.R. prior to completion of that phase of work. A final report that documents required special inspections and corrections of discrepancies shall be submitted by the General Contractor to the Owner, E.O.R. and A.O.R.

STRUCTURAL INSPECTIONS - BASIC REQUIREMENTS:

VERIFICATION AND INSPECTION OF PAD AND STRIP FOOTING CONSTRUCTION:
A. After excavation and before pouring footings the geotechnical engineer or representative shall verify thru periodic testing that material below footings are adequate for bearing.
B. Verify excavations are extended to proper depth thru periodic testing.
C. If required, provide density testing, use of approved fill materials, and correct lift thickness during placement and controlled fill through continuous inspection.
D. If required by geotechnical recommendations, prior to placing footings or fill, observe subgrade and proof roll.
E. Provide verification and inspection of formwork, steel reinforcement, and concrete for applicable items as outlined in subparagraph "Verification and Inspection of Concrete Construction."

VERIFICATION AND INSPECTION OF DRILLED PIER AND GRADE BEAM CONSTRUCTION:
A. Testing agency shall observe drilling operations and maintain complete and accurate records for each pier thru continuous inspection.
B. Testing agency shall verify and report placement locations, plumbness, pier size, bell diameter (if applicable), lengths, embedment depth (if applicable) and adequate end bearing strata.
C. Probing of bottom of piers founded in rock may be required by geotechnical engineer. Where probing is required contractor shall submit for approval the type of equipment planned for use and methodology of use.

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION:
A. Contractor shall obtain and a testing agency shall review and record material verification of high-strength bolts, nuts and washers, steel, non-shrink grout, and welders certifications.
B. Inspection agency shall periodically review by visual inspection and report all bearing type connections for compliance with "snug tight" condition. For connections specified as "slip critical" inspection agency shall periodically review bolts per manufacturers recommendations for twist off type bolts or direct tension indicators.
C. Contractor shall provide structural steel shop drawings for review and maintain copies on site for inspectors use. Refer to specifications for specific shop drawing requirements.
D. Inspection of welded structural steel shall be as follows:
   1. Complete and partial penetration groove welds shall have continuous inspection and welds shall be tested using the ultrasonic testing method or other previously approved method at a frequency notes as follows:
      A. 10 welds or less — 100% Tested
      B. 10 to 20 welds — 50% Tested, but not less than 10
      C. 20 to 30 welds — 25% Tested, but not less than 10
      D. 30 or more — 10% Tested, but not less than 10
   2. Fillet welds greater than $^5/_{16}$" or require multiple passes shall have continuous visual inspection.
   3. Single pass fillet welds $^5/_{16}$" and smaller shall have periodic visual inspection.
   4. Roof and floor deck welds shall have periodic inspection verifying size, spacing, and quality.
   5. Floor shear studs shall have periodic inspection and testing as per AWS D1.1.
E. Steel deck - Contractor shall provide shop drawings and manufacturers certificates for review and maintain copies on site for inspector's use. Refer to specifications for specific shop drawing requirements. Inspector shall periodically inspect deck type, placement, and attachment. Where mechanical fasteners are used contractor shall submit and maintain on-site manufacturers data for fasteners.
F. Joists and joist girders - Contractor shall provide shop drawings for review and maintain on site shop drawings and manufacturers tags or certificates for inspectors use. Periodic inspection of joists shall include review of structural high strength bolts (if applicable), welding, location, and spacing of joists. Contractor is responsible for compliance with applicable OSHA requirements.

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION:
A. As a minimum, contractor shall provide and maintain copies on site of the following submittals:
   1. Concrete mix designs and supporting data including admixture manufacturers data.
   2. Manufacturers data with application and installation instructions for all specified products and material certificates.
   3. Reinforcement shop drawings complying with ACI Detailing Manual (SP66). Include all information necessary for shop fabrication and for location and placing in the field.
   4. When required in contract documents, provide a pour placement plan.
   5. When required in contract documents, maintain material samples and mock-up panels.
   6. Shop drawings pertaining to formwork will not be reviewed by the design professional. Contractor has total control and responsibility for formwork as part of means and methods of construction.
B. The inspection program shall provide for the following inspections:
   1. Periodically inspect formwork for general compliance with material quality and alignments, notify contractor of any deficiencies found. The contractor is responsible for the proper design and support of formwork as part of the means and methods responsibility.
   2. Periodically inspect reinforcing including pre-stressing tendons for grade, size, number, length, lap length, lap location, cover and support.
   3. Continuously verify use of required design mix.
   4. Periodically inspect concrete placement and consolidation for compliance with ACI 301 requirements.
   5. Periodic inspection for maintenance of specified curing temperature and techniques.
   6. Continuous inspection of post-tensioned construction for proper application of pre-stressed forces.
   7. Periodic inspection of the erection of precast members including grouting under-bearing members, bolted and field welded connections.
   8. Inspect formed surfaces for cracking, honeycombing, voids, spalling, pealing, and exposed reinforcing.
C. This section outlines the basic tests to be conducted by the testing agency; however when conflicts exist between this section and the specifications, the specifications shall govern. The testing agency and the contractor shall review the specifications carefully for additional testing requirements. Testing includes but is not limited to the following:
   1. Compressive strength tests (ASTM C39) - prepare four (4) concrete test cylinders for every days placement or every (50) cubic yards. Test one cylinder at 7 days and two at 28 days. Retain one cylinder for possible testing at a later date.
   2. Slump test (ASTM C143) - perform one slump test from first two trucks and one for each set of cylinders taken. If any slump test is out of specified range, additional slump test shall be taken on each subsequent load until concrete is within specified range.
   3. Air entrainment tests (ASTM C231) - make one air content check per set of test cylinders.
   4. Contractor shall provide an enclosure for initial storage and curing of concrete test cylinders meeting ASTM C31. Fit enclosure with maximum/minimum thermometer, provided heating and cooling, and maintain enclosure at 70°F plus or minus 10°.
   5. Hot and cold weather concrete placement - at architects discretion temperature measurements may be taken when weather conditions may warrant hot or cold weather placement requirements.

VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION:
A. As a minimum, contractor shall provide and maintain copies on site the following submittals:
   1. Manufacturers data for each unit, accessory, and product with application and installation instructions and material certificates.
   2. reinforcement shop drawings complying with ACI Detailing Manual include all information necessary for shop fabrication and for placing in the field.
   3. When required in contract documents, maintain material samples and mock-up panels.
   4. Contractor has total control and responsibility for temporary shoring and bracing as part of means and methods of construction.
B. The inspection program shall shall provide for the following inspections:
   1. Periodic inspection of size and location of masonry units.
   2. Periodic inspection of reinforcement size, grade, and location.
   3. Periodically verify grout spaces are clean and mortar joints are properly constructed.
   4. Continuous inspection of grout placement and any welding of reinforcing.

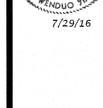
2012 IBC SPECIAL INSPECTIONS			INSPECTION FREQUENCY +	
CONST. TYPE		INSPECTION TASK	CONTINUOUS	PERIODIC
SOILS	1.	Verify materials below footings are adequate to achieve the design bearing capacity.	—	X
	2.	Verify excavations are extended to proper depth and have reached proper material.	—	X
	3.	Perform classification and testing of controlled fill materials.	—	X
	4.	Verify use of proper materials, densities and lift thickness during placement and compaction of controlled fill.	X	—
	5.	Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.	—	X
CONCRETE	1.	Inspection of reinforcing steel and placement.	—	X
	2.	Inspection of reinforcing steel welding in accordance with table 1704.3, item 5B.	—	X
	3.	Inspect bolts and embeds to be installed in concrete prior to and during placement of concrete.	X	—
	4.	Verifying use of required design mix.	—	X
	5.	Sampling fresh concrete and performing slump, air content and determining the temperature of fresh concrete at the time of making specimens for strength tests.	X	—
	6.	Inspection of concrete and shotcrete placement for proper application techniques.	X	—
	7.	Inspection for maintenance of specified curing temperature and techniques.	—	X
	8.	Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X
	9.	Inspection of anchors installed in hardened concrete.	—	X
STRUCTURAL STEEL	1.	Material verification of high-strength bolts, nuts and washers. A. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X
		B. Manufacturer's certificate of compliance required.	—	X
	2.	Inspection of high strength bolting. A. Bearing type connections, snug tight & slip critical.	—	X
	3.	Material verification of structural steel. A. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X
		B. Manufacturer's certificate of compliance required.	—	X
	4.	Material verification of weld filler material. A. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X
		B. Manufacturer's certificate of compliance required.	—	X
	5.	Inspection of welding. A. Structural steel:		
		1. Complete & partial penetration groove welds.	X	—
		2. Multi-pass fillet welds.	X	—
		3. Single-pass fillet welds > $^5/_{16}$"	X	—
		4. Single-pass fillet welds < $^5/_{16}$"	—	X
		5. Floor and deck welds.	—	X
		B. Reinforcing Steel:		
		1. Verification of weldability of reinforcing steel other than ASTM A706	—	X
		2. Shear Reinforcement.	X	
		3. Other reinforcing steel.	—	X
	6.	Inspection of steel frame joint details for compliance with approved construction documents: A. Details such as bracing and stiffeners. B. Member Locations. C. Application of joint details at each connection.	—	X
MASONRY	1.	As masonry construction begins, the following shall be verified to ensure compliance: A. Proportions of site prepared mortar.	—	X
		B. Construction of mortar joints.	—	X
		C. Location of reinforcement and connectors.	—	X
	2.	During construction the inspection program shall verify: A. Size and location of structural elements:	—	X
		B. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	—	X
		C. Specified size, grade and type of reinforcement.	—	X
		D. Welding of reinforcing bars.	X	—
		E. Protection of masonry during cold (Temperature below 40° F) or hot weather (Temperature above 90°F)	—	X
	3.	Prior to grouting, the following shall be verified to ensure compliance: A. Grout space is clean.	—	X
		B. Placement of reinforcement and connectors.	—	X
		C. Proportions of site-prepared grout.	—	X
		D. Construction of mortar joints.	—	X
	4.	Grout placement shall be verified to ensure compliance with code and construction document provisions.	X	—
	5.	Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	X	—
	6.	Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	—	X

2012 IBC SPECIAL INSPECTIONS			INSPECTION FREQUENCY +	
CONST. TYPE		INSPECTION TASK	CONTINUOUS	PERIODIC
PIER FOUNDATIONS	1.	Observe drilling operations and maintain complete and accurate records for each pier.	X	—
	2.	Verify placement locations and plumbness, confirm pier diameters, lengths, embedment into bedrock and adequate end bearing strata capacity.	X	—
	3.	For concrete piers, perform additional inspections in accordance with section 1704.5.		
METAL DECK	1.	Deck attachment per general and plan notes on construction documents.	—	X
COMPONENT ANCHORAGE	1.	Installation of shallow expansion, chemical and cast in place anchors in masonry and concrete.	—	X

+ Special inspection, continuous: The full time observation of work requires special inspection by an approved special inspector who is present in the area where the work is being performed.

+ Special inspection, periodic: The part time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work has been or is being performed and the completion of the work.

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER



7/29/16

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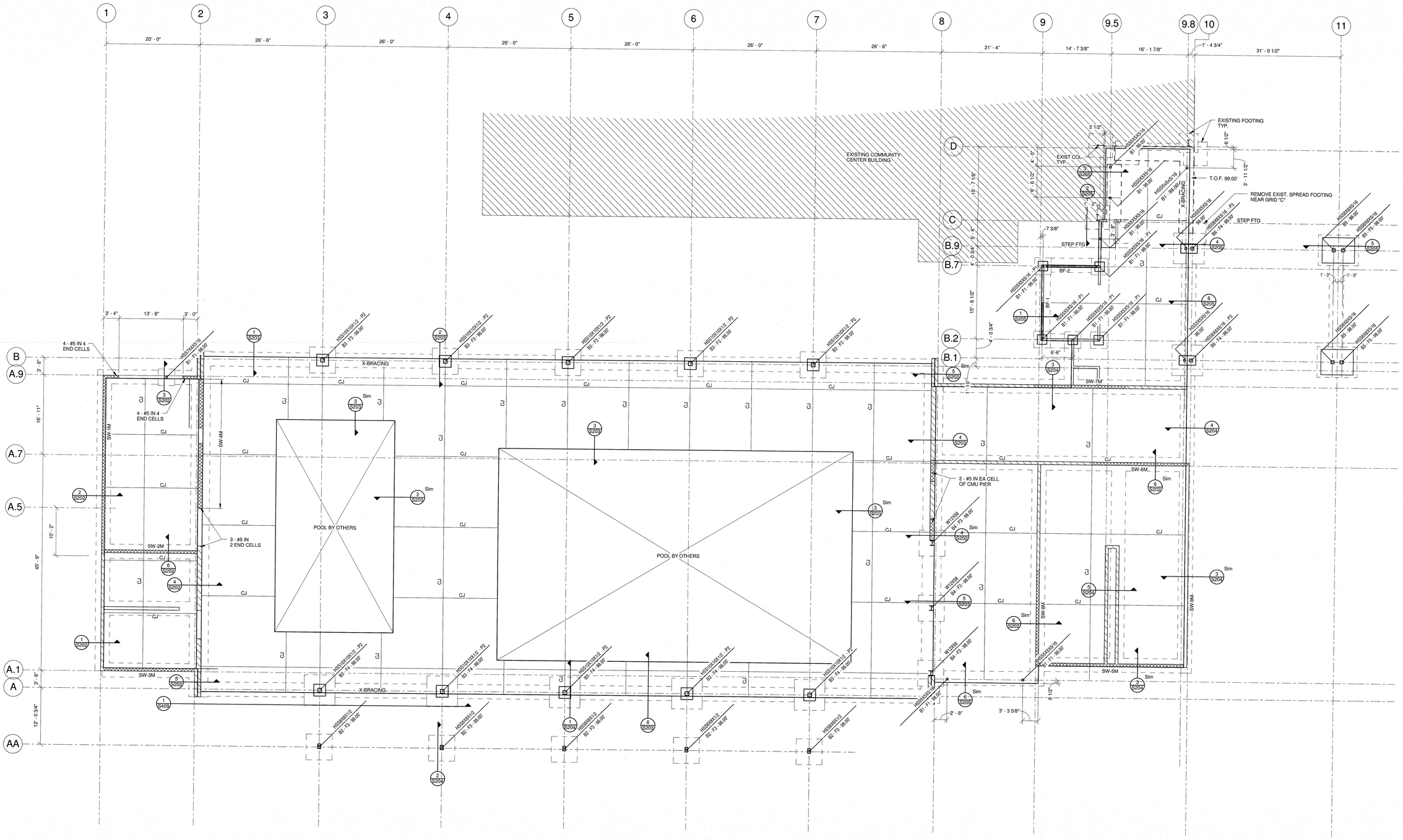
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FORREST CITY
AQUATIC CENTER
CITY OF FORREST CITY

DATE	REVISION

SURVEY BY:
DESIGN BY: RY
DRAWN BY: CS
CHECKED BY: RY
DATE: 7-29-16
JOB NO: 163901 CFC
GENERAL NOTES (SPECIAL INSPECTIONS)
SHEET NO: S002

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10018 W. MARKHAM / LITTLE ROCK, AR 72205
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PEDESTAL MARK
HSS5X5X5/16 B1 - F1 - 98.00'
TOP OF FOOTING ELEVATION
COLUMN SIZE
FOOTING MARK
BASEPLATE MARK

LEGEND

FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. FIN.FLR.EL. - 100.00' (ACTUAL ELEV. = 254.30')
2. 4" & 6" NORMAL WT. CONCRETE ON 10 MIL VAPOR RETARDER ON 4" GRANULAR FILL ON EITHER SELECT COMPACTED STRUCTURAL FILL OR UNDISTURBED SOIL. REINF. W/ 6x6x - W2.9 x W2.9 WWF, PLACE WWF ON CHAIRS, CUT 75% OF REINF. AT CONTROL JOINTS. FOR 6" SLAB, REINF. W/ #4 @ 18"OC EA. WAY ON CHAIRS ALSO CUTTING 75% OF REINF. @ JOINTS.
3. CJ - INDICATES CONSTRUCTION JOINTS. SEE SHEET S2.01 FOR DETAILS. CONTROL JOINTS MAY BE EITHER CONSTRUCTION JOINT OR SAW CUT JOINT AT CONTRACTORS OPTION.
4. SEE SHEET S2.01 FOR FOOTING, PEDESTAL AND ANCHOR BOLT SCHEDULES
5. SEE ARCH. DRAWINGS FOR EXACT CMU WALL LOCATIONS.

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
WENDUO YIN
7/29/16

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DATE	REVISION

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DATE: 7-29-16
JOB NO: 163901 CFC
FOUNDATION PLAN
SHEET: S101

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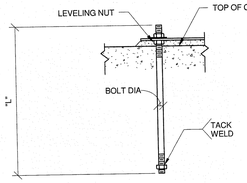
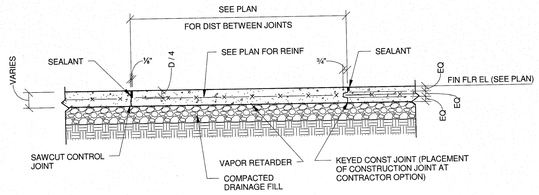


TABLE 1 - SCHEDULE		
BOLT DIA	"L"	PROJ
3/4"	1'-6"	6"
1"	1'-8"	6"
1 1/4"	1'-8"	6"
1 1/2"	2'-0"	6 1/2"

NOTES:
1. OMIT NON SHRINK GROUT ON PRE-ENGINEERED METAL BUILDINGS AND WHERE NOTED ON DRAWINGS.
2. AT CONTRACTOR'S OPTION LEVELING NUT UNDER BASE PLATE MAY BE OMITTED WHERE STEEL SHIM PACKS ARE USED.
3. USE ASTM F1554 GRADE 36 THREADED ROD W/ NUT AT BOTTOM.
4. WHERE OVERSIZED OR SLOTTED HOLES ARE USED PROVIDE PLATE WASHERS AS INDICATED IN TABLE 2 W/ CIRCULAR OR SQUARE WASHERS MEETING MIN SIZE REQUIREMENTS. TACK WELD SQUARE WASHERS IN PLACE.

TABLE 2 - HOLE SIZE IN BASE PL & WASHER REQUIREMENTS			
BOLT DIA	MAX HOLE DIAMETER BASE PL.	MIN WASHER SIZE	MIN WASHER THICKNESS
3/4"	1 5/16"	2"	1/4"
7/8"	1 9/16"	2 1/2"	5/16"
1"	1 13/16"	3"	3/8"
1 1/4"	2 1/16"	3"	1/2"

1 DETAIL - TYP. ANCHOR BOLT
3/4" = 1'-0"

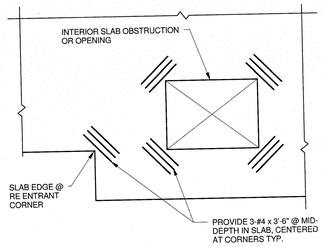


NOTES:
1. SAWCUT CONC SLAB AS SOON AS PROCEDURE CAN BE COMPLETED WITHOUT SPALLING OR DAMAGING EDGE, SAWCUTTING MUST BE COMPLETED WITHIN 8 HOURS OF CONCRETE PLACEMENT.
2. 75% OF REINFORCEMENT MUST STOP 3" EACH SIDE OF JOINT.
3. CONTRACTOR MAY PROVIDE EITHER SAWCUT CONTROL JOINT OR KEYED CONSTRUCTION JOINT WHERE "CJ" SHOWN ON DRAWINGS.
4. COORDINATE EXACT LOCATION OF CONTROL JOINTS WHERE ARCH DRAWINGS INDICATE CERAMIC TILE, STONE FLOORING OR TERAZZO. COORDINATE WITH ARCH.

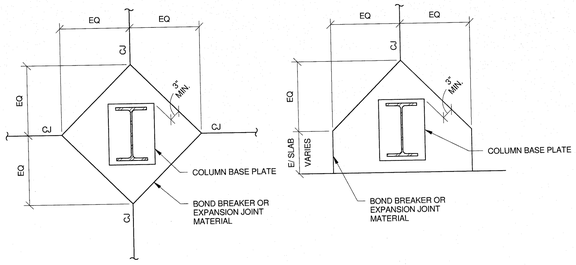
2 TYPICAL SOG CONTROL JOINT DETAIL
3/4" = 1'-0"

PAD FOOTING SCHEDULE		
MARK	FOOTING SIZE	REINFORCEMENT
F1	4'-0"x4'-0"x1'-0"	#5 @ 12" OC EW BOT
F2	5'-0"x5'-0"x1'-0"	#5 @ 12" OC EW BOT
F3	6'-0"x6'-0"x1'-3"	#6 @ 12" OC EW BOT
F4	6'-6"x6'-6"x1'-6"	#6 @ 12" OC EW TOP & BOT
F5	8'-6"x6'-6"x1'-6"	#6 @ 12" OC EW TOP & BOT

3 TYPICAL PAD FOOTING SCHEDULE
3/4" = 1'-0"

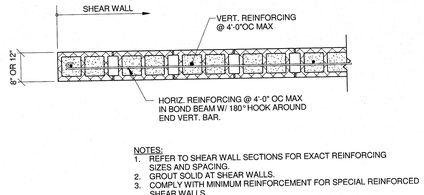


4 DETAIL - REINF @ RE-ENTRANT CORNERS
3/4" = 1'-0"



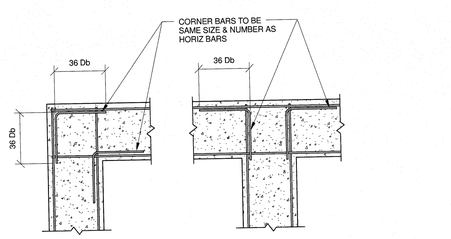
DIAMOND PENTAGON

5 DETAIL - COLUMN ISOLATION JOINTS
3/4" = 1'-0"



NOTES:
1. REFER TO SHEAR WALL SECTIONS FOR EXACT REINFORCING SIZES AND SPACING.
2. GROUT SOLID AT SHEAR WALLS.
3. COMPLY WITH MINIMUM REINFORCEMENT FOR SPECIAL REINFORCED SHEAR WALLS.
4. SPECIAL INSPECTION IS REQUIRED ON ALL SHEAR WALLS.
5. HORIZ. JOINT REINF. IS AT 8"OC

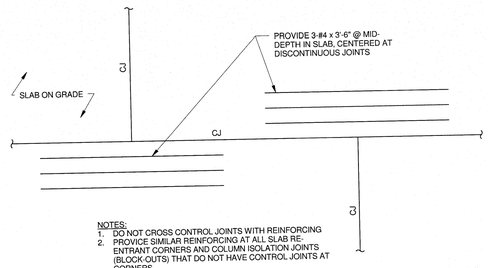
6 DETAIL - MASONRY SHEAR WALL
3/4" = 1'-0"



NOTE:
TYP AT ALL CONTINUOUS FOOTINGS AND THICKENED SLABS.

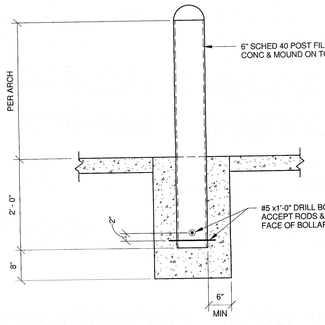
PLAN VIEW @ CORNER PLAN VIEW @ INTERSECTION

7 DETAIL - TYP. CORNER BARS @ FOOTINGS
3/4" = 1'-0"

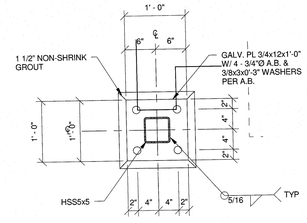


NOTES:
1. DO NOT CROSS CONTROL JOINTS WITH REINFORCING
2. PROVICE SIMILAR REINFORCING AT ALL SLAB RE-ENTRANT CORNERS AND COLUMN ISOLATION JOINTS (BLOCK-OUTS) THAT DO NOT HAVE CONTROL JOINTS AT CORNERS

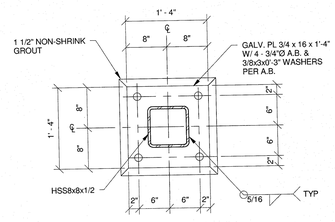
8 DETAIL - REINFORCING @ JOINTS
3/4" = 1'-0"



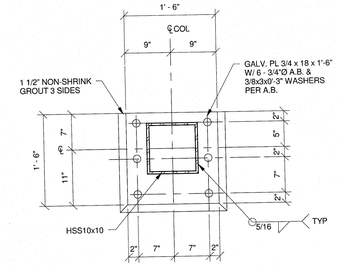
9 TYPICAL BOLLARD DETAIL
3/4" = 1'-0"



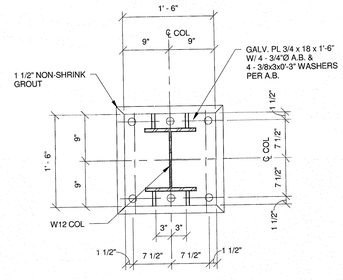
BASE PL B1



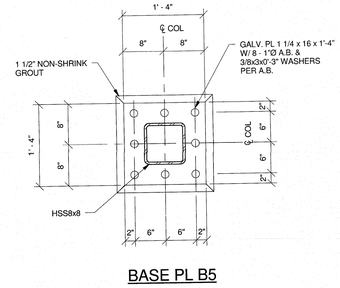
BASE PL B2



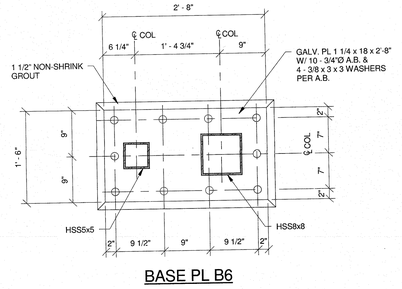
BASE PL B3



BASE PL B4



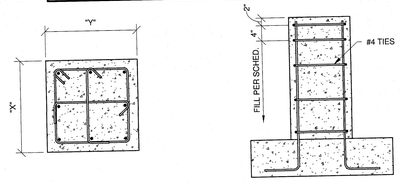
BASE PL B5



BASE PL B6

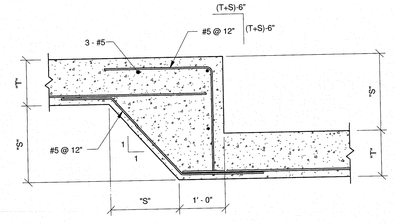
10 BASE PL DETAILS
1" = 1'-0"

PEDESTAL REINFORCING SCHEDULE			
MARK	"X" x "Y"	VERT REINF	TIES
P1	24" x 24"	12-#6	#4 @ 4" OC
P2	30" x 30"	12-#6	#4 @ 4" OC
P3	24" x 42"	12-#6	#4 @ 4" OC



PEDESTAL PLAN TIE PLACEMENT

11 TYPICAL PEDESTAL REINFORCING SCHEDULE
3/4" = 1'-0"



NOTE:
CONTRACTOR SHALL COORDINATE PROPOSED FINISHED GRADE ELEVATION W/ PROPOSED TOP OF FOOTING ELEVATION TO VERIFY ADEQUATE CLEARANCE.

12 TYPICAL STEP FOOTING DETAIL
3/4" = 1'-0"

Robbins Engineering PLLC No. 1083 ARKANSAS ENGINEER
CERTIFICATE OF AUTHORIZATION
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9260 WENDUO YIN
7/29/16

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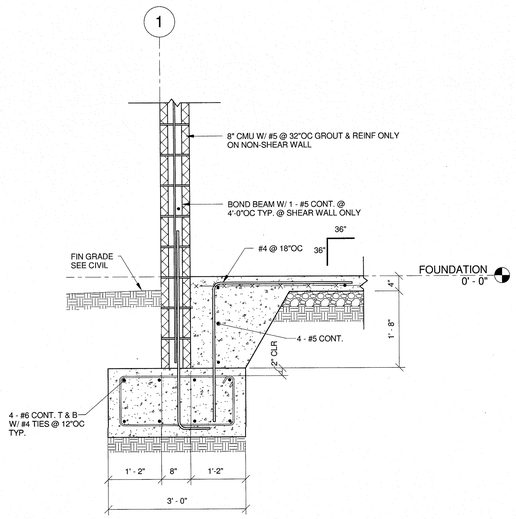
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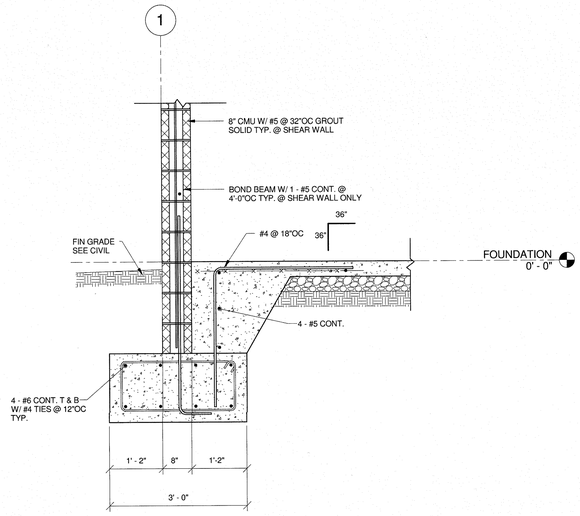
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JOB NO: 163901 CFC
TYP FOUNDATION DETAILS
SHEET: S201

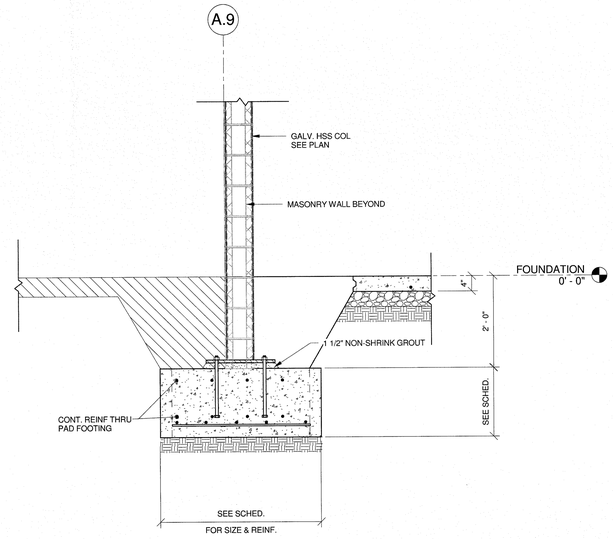
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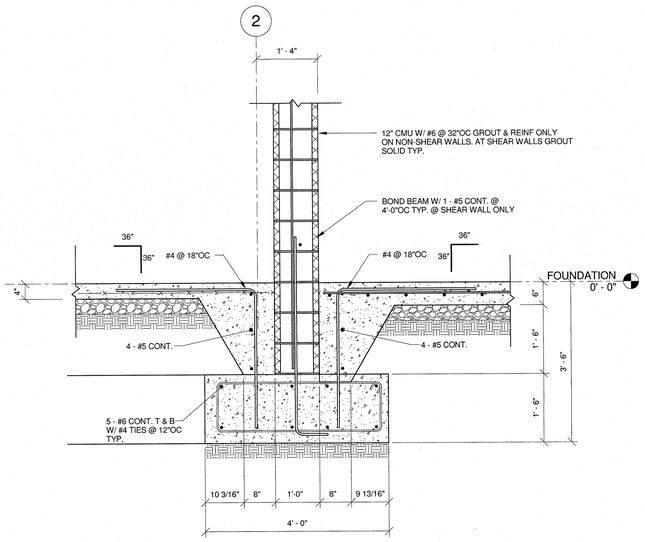
1 SECTION
3/4" = 1'-0"



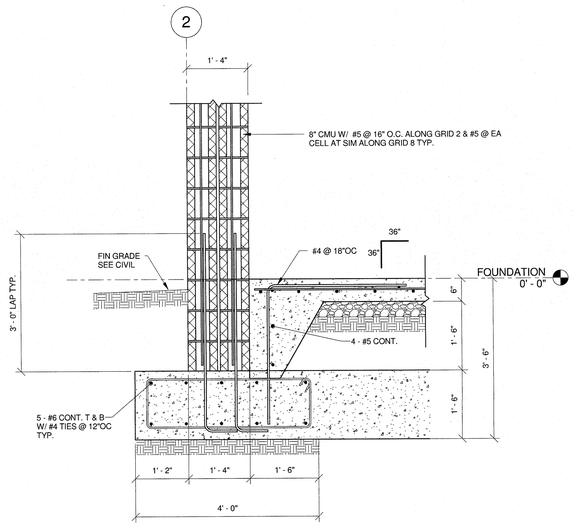
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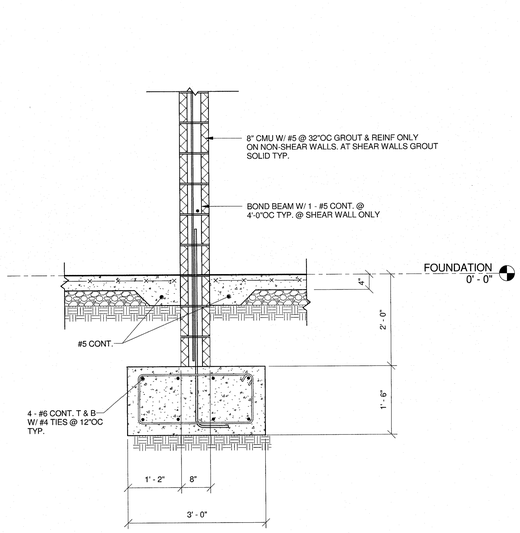
3 SECTION
3/4" = 1'-0"



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



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

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CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
WENDUO YIN
7/29/16

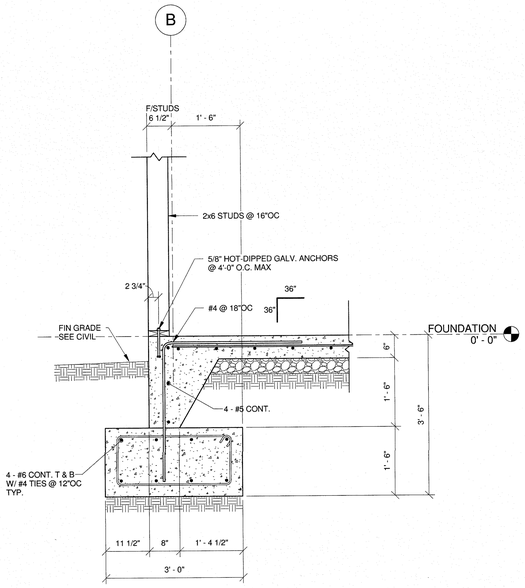
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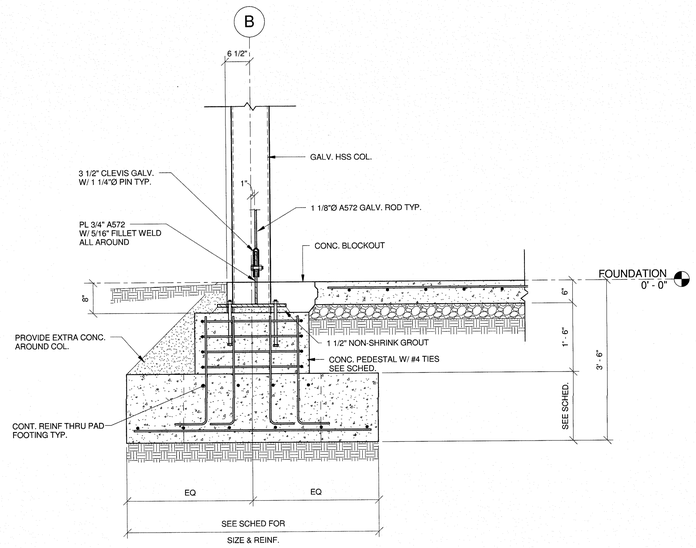
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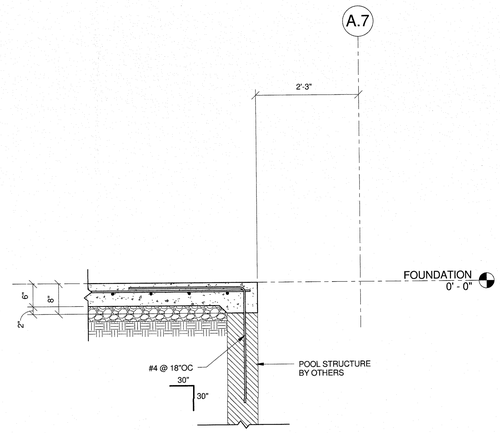
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DATE: 7-29-16
JOB NO: 163901 CFC
FOUNDATION SECTIONS
SHEET: S202



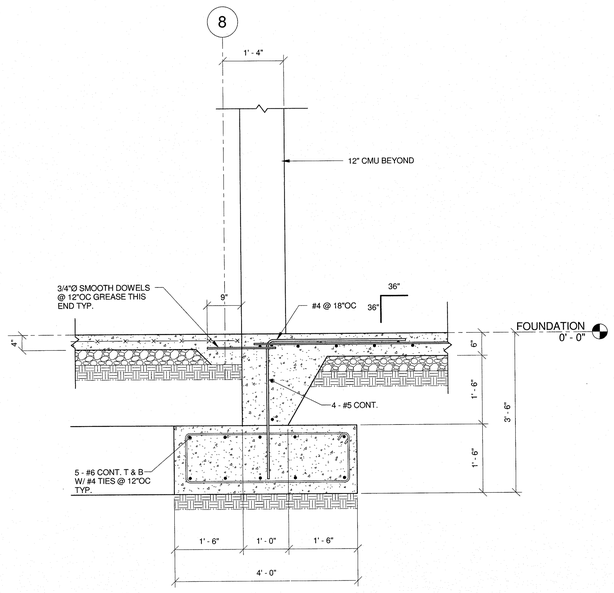
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3/4" = 1'-0"



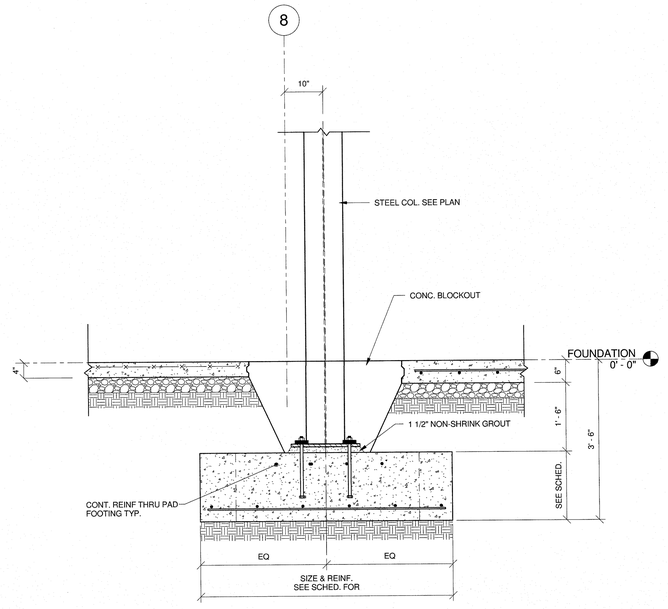
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3/4" = 1'-0"



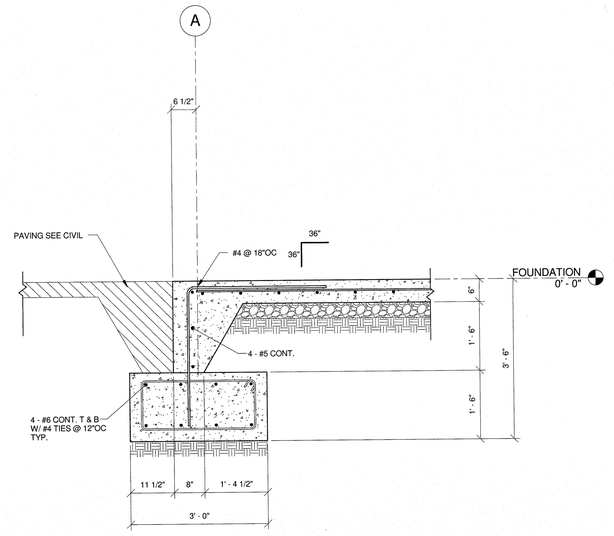
3 SECTION
3/4" = 1'-0"



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



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

Robbins Engineering PLLC No. 1083 ARKANSAS ENGINEER
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9260 WENDUO YIN
7/29/16

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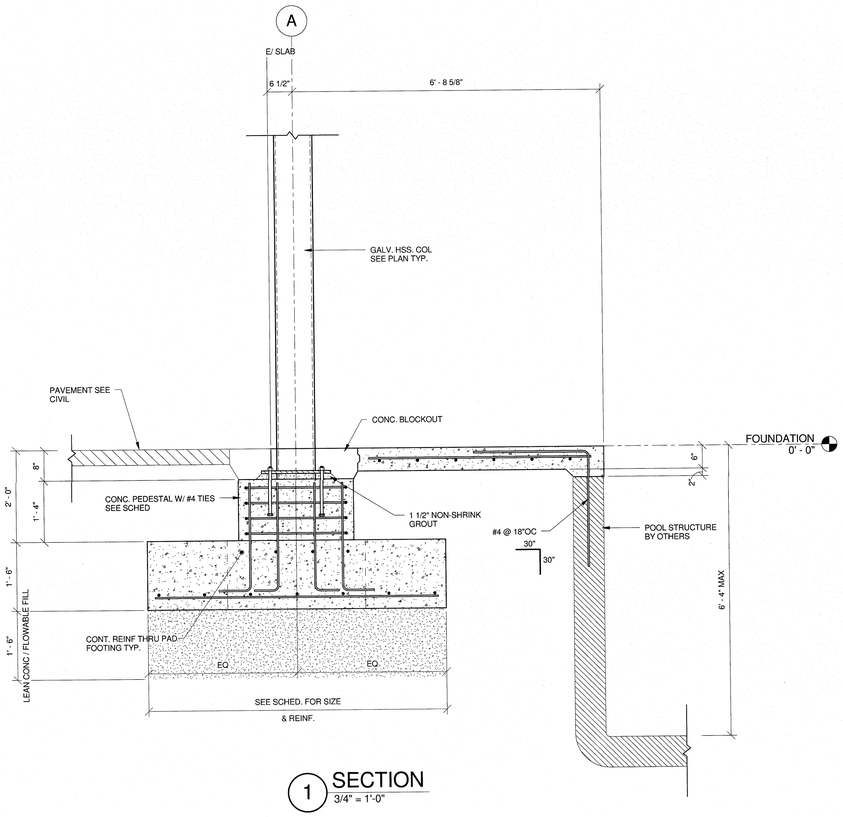
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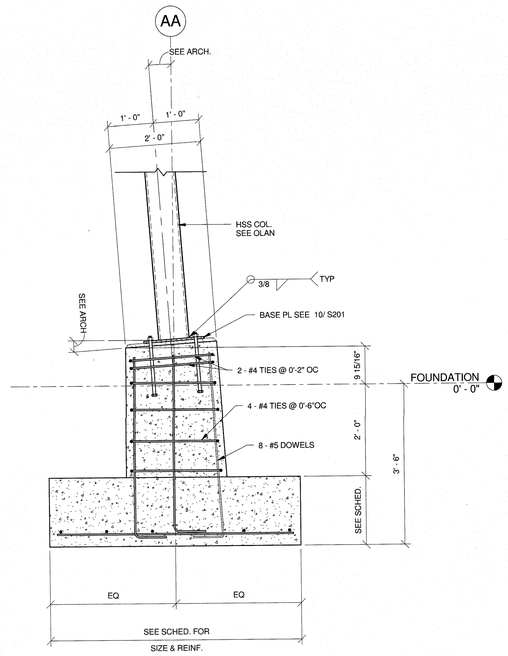
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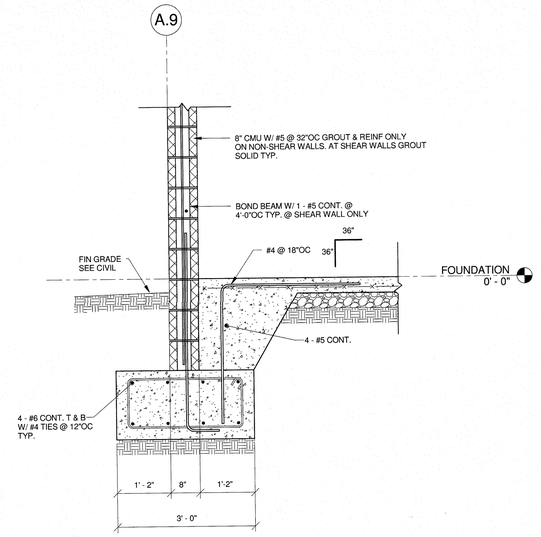
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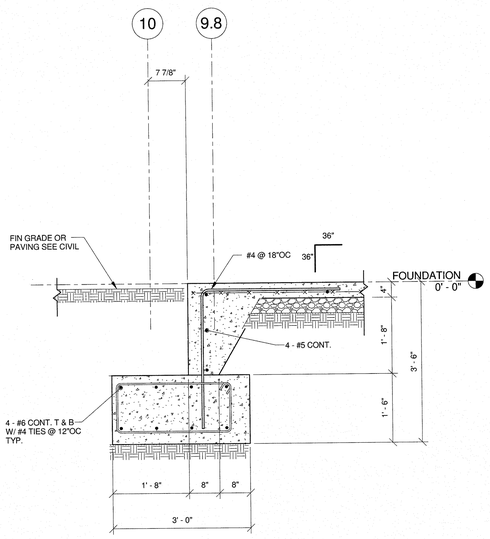
1 SECTION
3/4" = 1'-0"



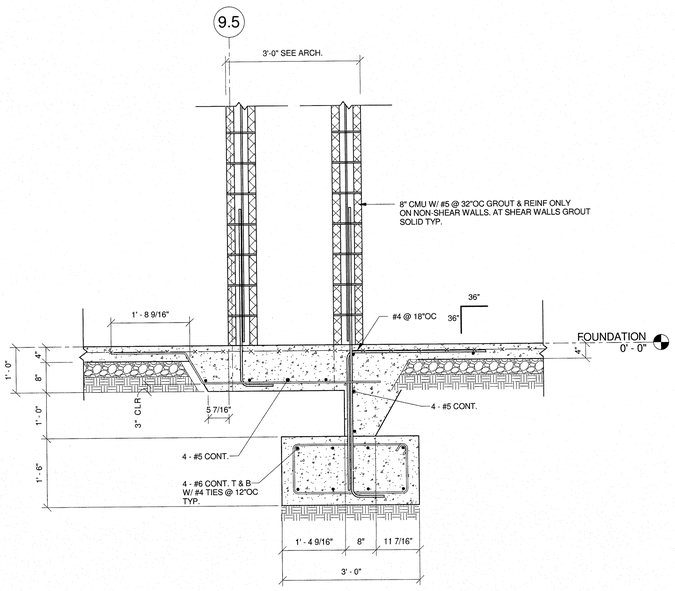
2 SECTION
3/4" = 1'-0"



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



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



5 SECTION
3/4" = 1'-0"

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
WENDUO YIN
7/29/16

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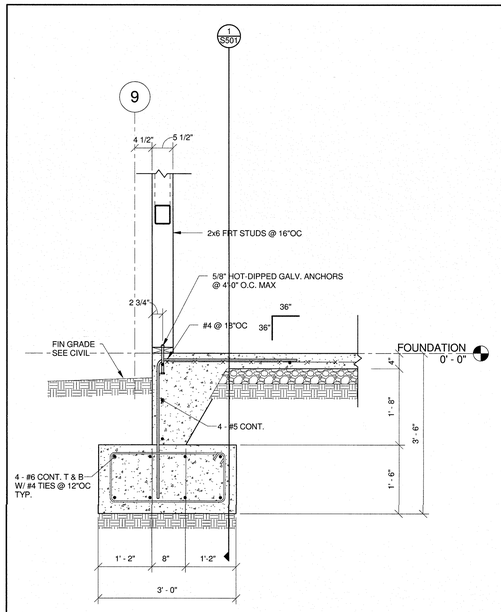
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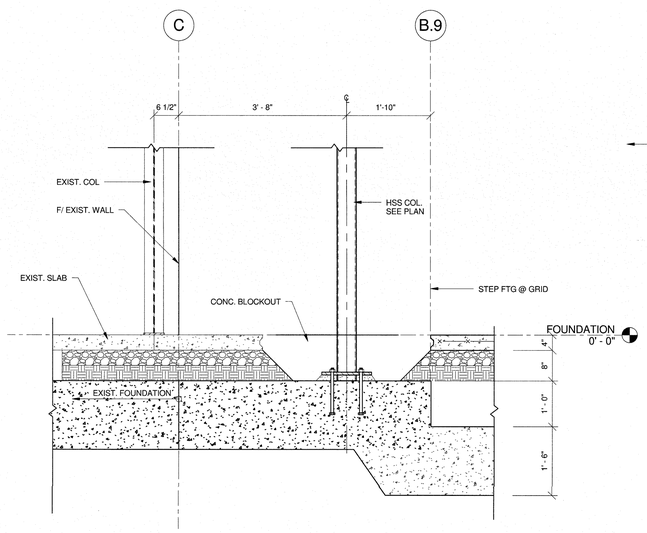
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SHEET NO: S204

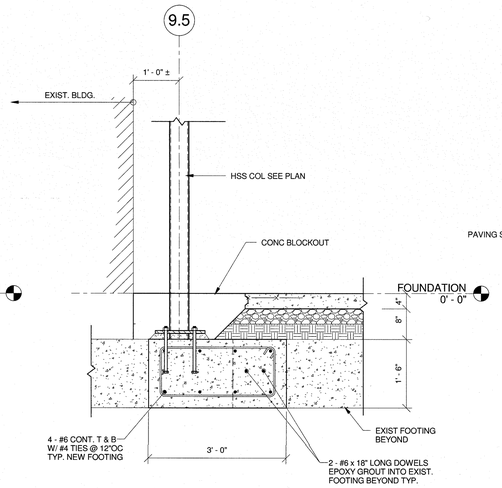
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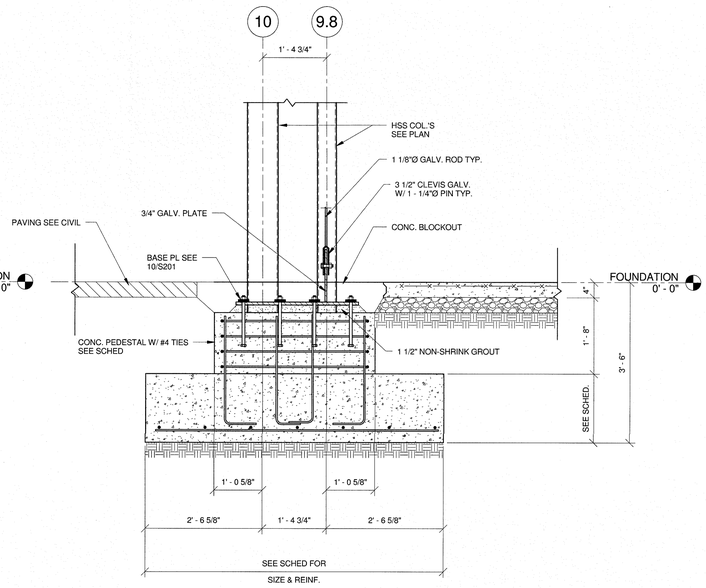
1 SECTION
3/4" = 1'-0"



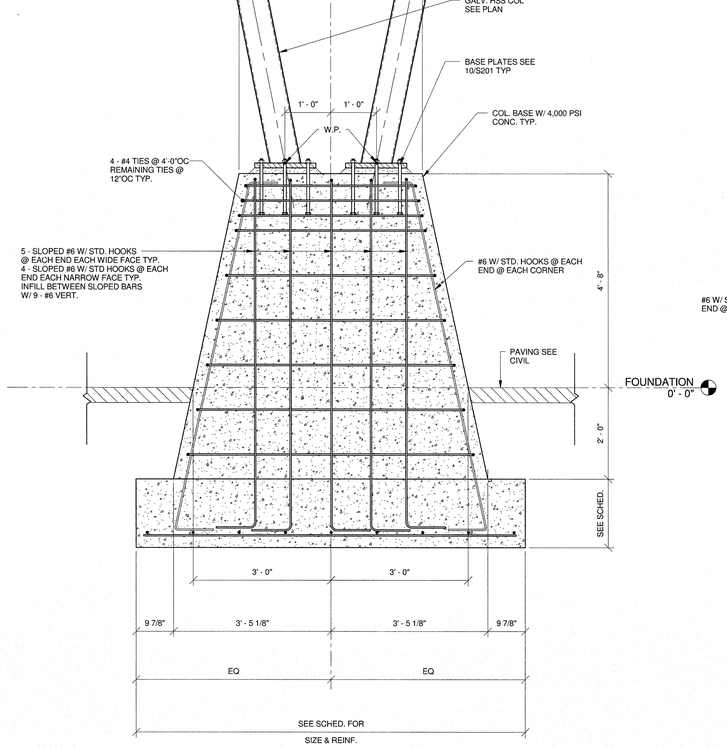
2 SECTION
3/4" = 1'-0"



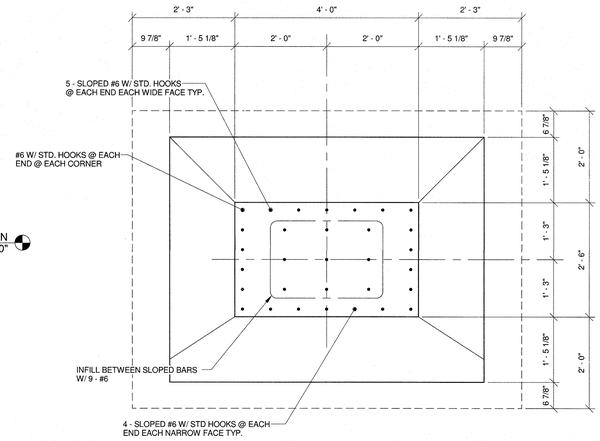
3 SECTION
3/4" = 1'-0"



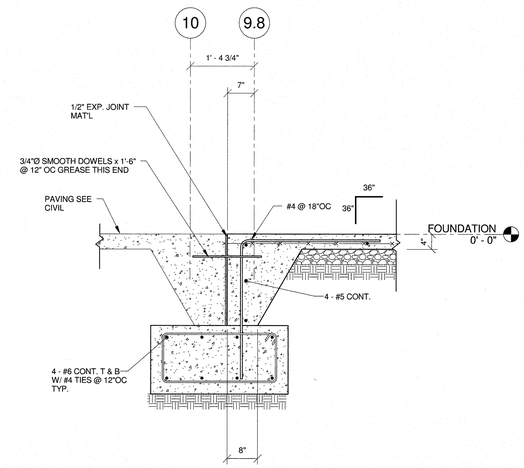
4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



PLAN VIEW



6 SECTION
3/4" = 1'-0"

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
BENJUO YIN
7/29/16

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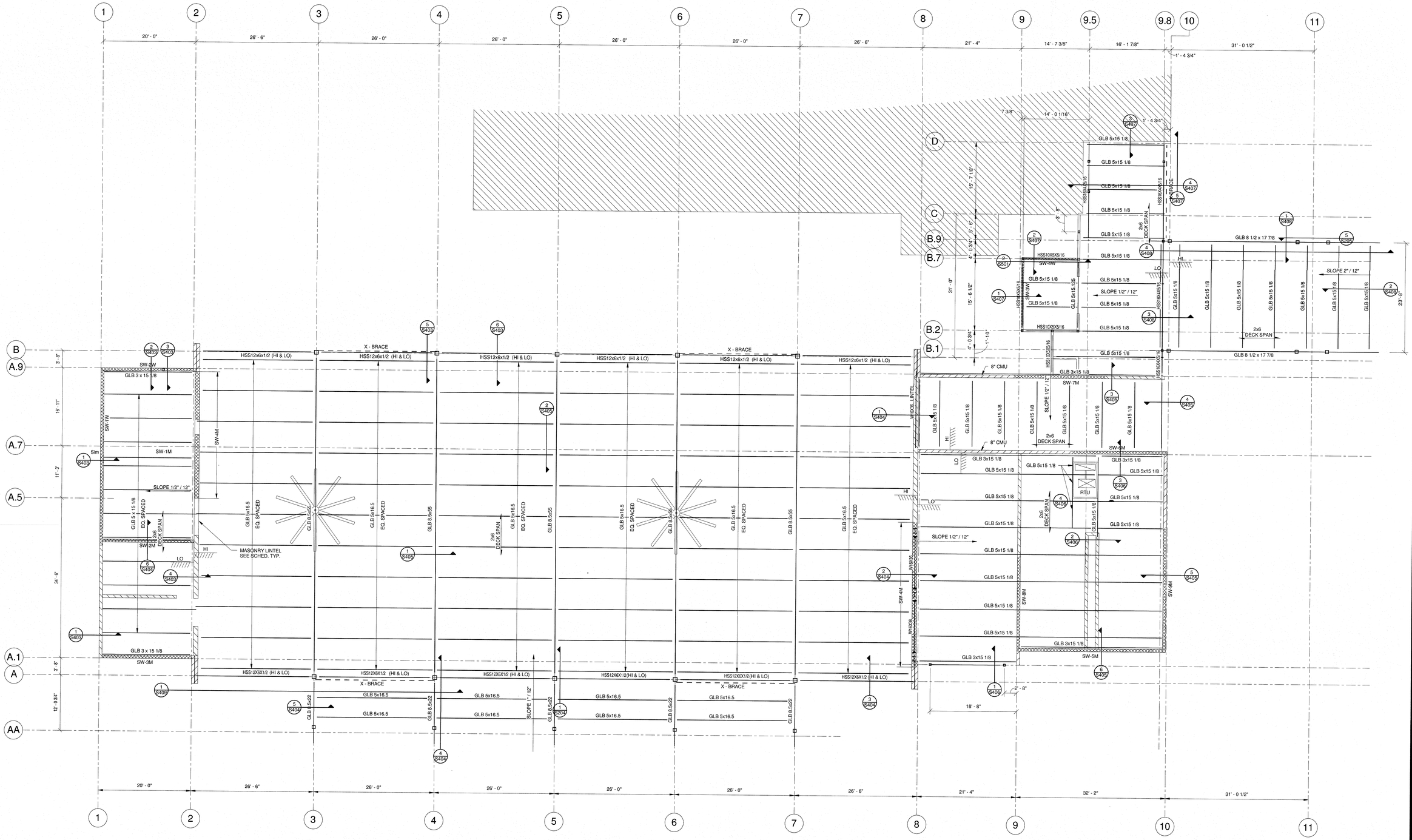
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NOTES:

1. SW-1M TO SW-9M ARE SPECIALLY REINFORCED MASONRY SHEAR WALLS. SW-1W TO SW-4W ARE LIGHT FRAMED (WOOD) SHEAR WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE.
2. ALL PRESSURE TREATED WOOD MEMBERS SHALL USE MICRONIZED COPPER AZOLE (MCA) TYPE PRESERVATIVES. ALL CONNECTORS AND FASTENERS AT LEAST HOT-DIPPED GALV.IN THIS FACILITY.
3. ALL STRUCTURAL STEEL MEMBERS ARE TO BE HOT-DIPPED GALV., ALL FIELD WELDED AREAS SHALL BE CLEANED & RECIEVEGALV. PAINT. VENT HOLESARE REQUIRED FOR HOT-DIPPEDGALV. AND SHALL BE PROVIDED BY STEEL FABRICATOR AND / OR DETAILER.
4. BRACING AND / OR BRIDGING FOR GLULAM BEAMS & GLULAM CONNECTIONS SHALL BE VERIFIED BY THE GLULAM SUPPLIER IF ADDITIONAL SUPPORT IS REQUIRED, NOTIFY ARCHITECT & ENGINEER OF RECORD IMMEDIATELY.
5. RTU SUPPORT IS BASED ON 5 TONUNIT WITH MAXIMUM WEIGHT OF 1000 LBS.
6. BIG ASS FAN = 18'-0" IN DIA. 272LBS.

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

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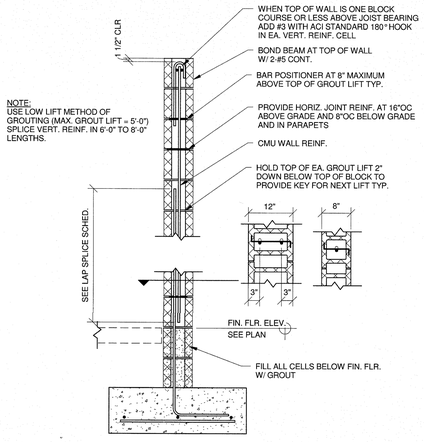
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DATE: 7-29-16
JOB NO: 163901 CFC
ROOF FRAMING PLAN
SHEET: S301

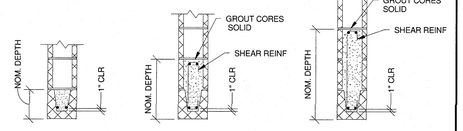
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1 DETAIL - CMU WALL REINFORCING DIAGRAM
3/4" = 1'-0"

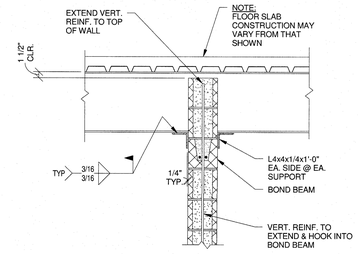
MASONRY LINTEL SCHEDULE (ML)

CLEAR CMU OPENING NOT TO EXCEED	NOMINAL DEPTH	REINFORCEMENT	SHEAR REINF
4'-8"	8"	2-#4	NA
6'-8"	8"	2-#5	NA
8'-0"	16"	2-#5 T&B	NA
10'-0"	16"	2-#5 T&B	#3 @ 8" OC
12'-0"	24"	2-#6 T&B	#3 @ 8" OC

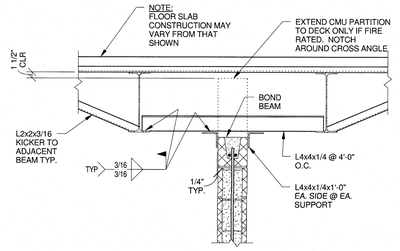


NOTES:
1. FOR SPANS 8'-0" AND LESS PROVIDE MINIMUM 8" BEARING. FOR SPANS GREATER THAN 8'-0" PROVIDE 16" BEARING @ JAMBS.
2. EXTEND BOTTOM REINF. TO END OF BEARING EACH SIDE. TERMINATE TOP REINF W/ STD HOOK @ CONTROL JOINTS OR FREE EDGES.
3. PROVIDE SOLID GROUTED OR SOLID MASONRY JAMBS UNDER LINTEL EACH SIDE OF OPENING.
4. SPECIAL INSPECTION IS REQUIRED.
5. CONTROL OR EXPANSION JOINTS SHALL NOT BE PLACED @ BEARING POINTS OR WITHIN THE LINTEL.

2 DETAIL - MASONRY LINTEL SCHEDULE
3/4" = 1'-0"

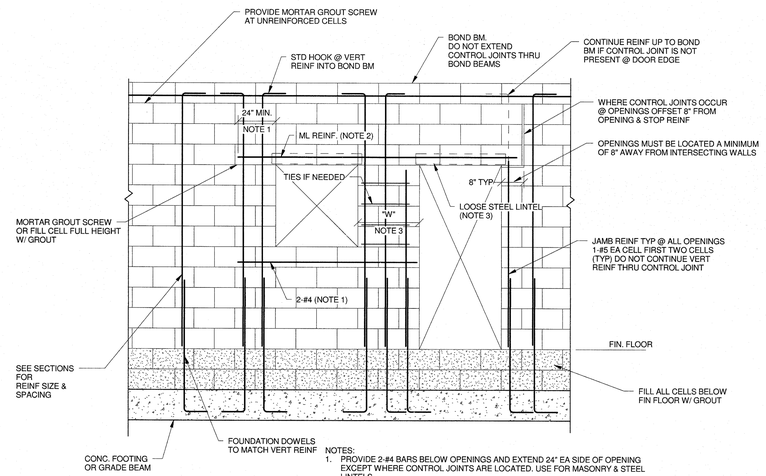


WALL PERPINDICULAR TO BEAMS



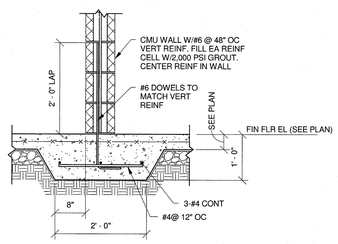
WALL PARALLEL TO BEAMS

3 DETAIL - TYP. CMU PARTITION SUPPORT
3/4" = 1'-0"

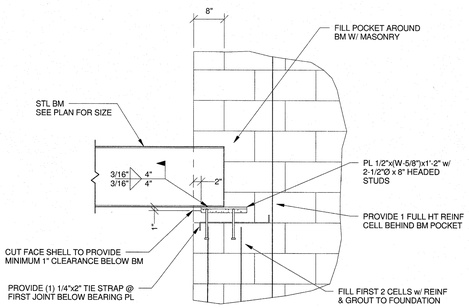


NOTES:
1. PROVIDE 2-#4 BARS BELOW OPENINGS AND EXTEND 24" EA SIDE OF OPENING EXCEPT WHERE CONTROL JOINTS ARE LOCATED. USE FOR MASONRY & STEEL LINTELS.
2. PROVIDE MASONRY LINTEL (ML) REINF. PER SCHEDULE. USE 2-#4 MINIMUM U.N.O.
3. PROVIDE #3 TIES (_____) AT 8" OC WHEN WIDTH "W" IS LESS THAN 48".
4. MASONRY LINTELS INDICATED, AT LOOSE STL LINTELS, REINF. BARS ARE NOT NEEDED ABOVE OPENINGS.

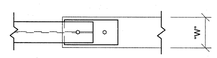
4 DETAIL - TYP. WALL REINFORCEMENT
3/4" = 1'-0"



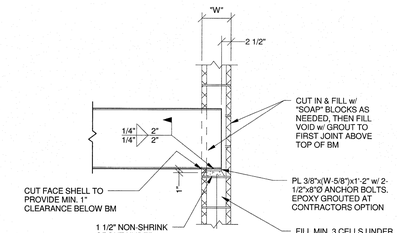
5 TYPICAL THICKENED SLAB @ CMU WALL
3/4" = 1'-0"



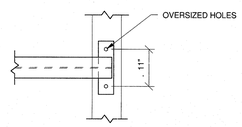
SECTION @ PARALLEL WALL



PLAN @ PARALLEL WALL



SECTION @ PERPENDICULAR WALL



PLAN @ PERPENDICULAR WALL

NOTES:
1. CUT BLOCKS TO CORRECT HEIGHT. FILL w/ GROUT & EMBED PLATE. USE NON-SHRINK GROUT TO LEVEL PLATE IF NECESSARY.
2. WAIT A MINIMUM OF 12 HRS PRIOR TO PLACING BEAM.

6 DETAIL - TYP. BEAM BEARING ON CMU
3/4" = 1'-0"

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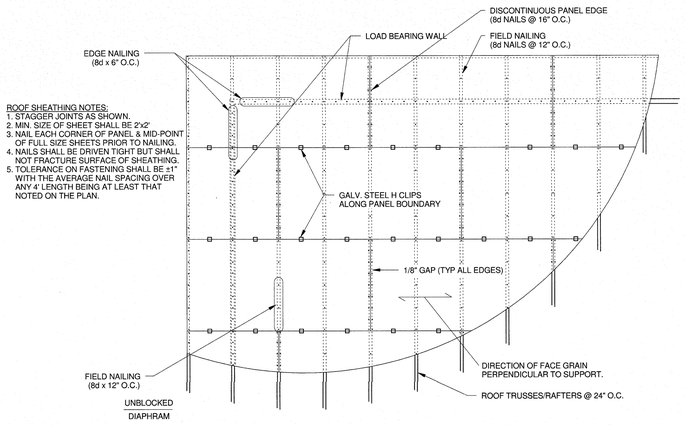
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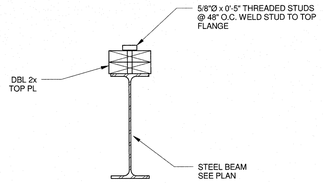
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DATE: 7-29-16
JOB NO: 163901 CFC
TYP FRAMING DETAILS
SHT: S401

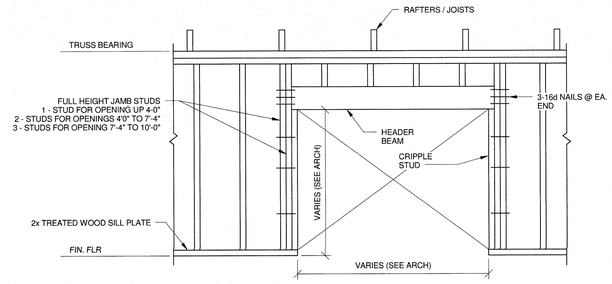
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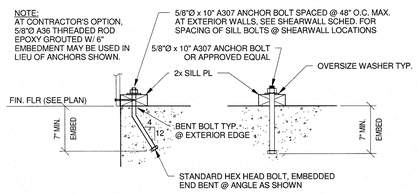
1 DETAIL - ROOF SHEATHING FASTENER PATTERNS
3/4" = 1'-0"



2 DETAIL - TOP PLATE TO BEAM
1 1/2" = 1'-0"

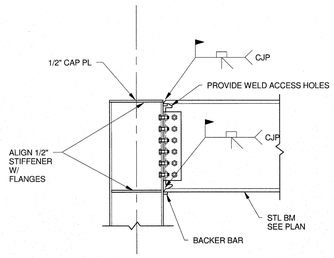


3 DETAIL - TYP. DOOR OPENING AT LOAD BEARING WALL
3/4" = 1'-0"



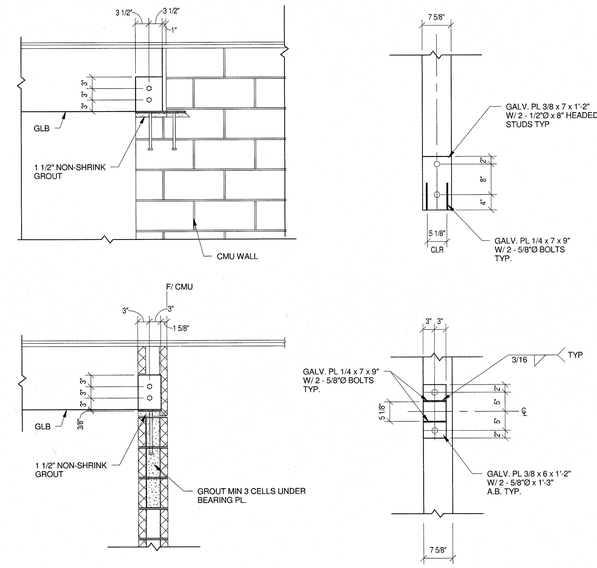
EXTERIOR WALL INTERIOR WALL

4 DETAIL - TYP. SILL PLATE ANCHOR
3/4" = 1'-0"



NOTES:
1. PROVIDE DECK CLOSURE PLATES WHERE COL'S ARE HIGHER THAN DECK BEARING.
2. PROVIDE BACKER BAR @ TOP & BOT OF BM.
3. SPECIAL INSPECTION REQUIRED AT ALL FULL PENETRATION WELDS.

5 DETAIL - TYP DIRECT WELDED MOMENT CONNECTION
3/4" = 1'-0"



6 DETAIL - GLULAM BEARING ON CMU
3/4" = 1'-0"

CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
WENDUO YIN
7/29/16

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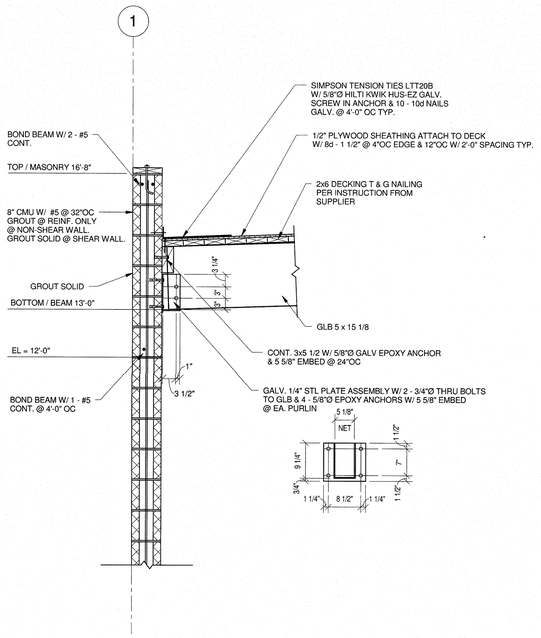
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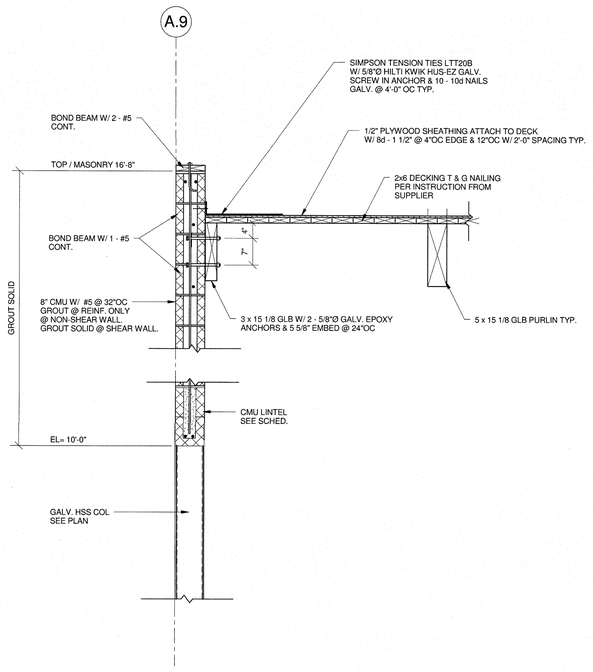
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SHEET: S402

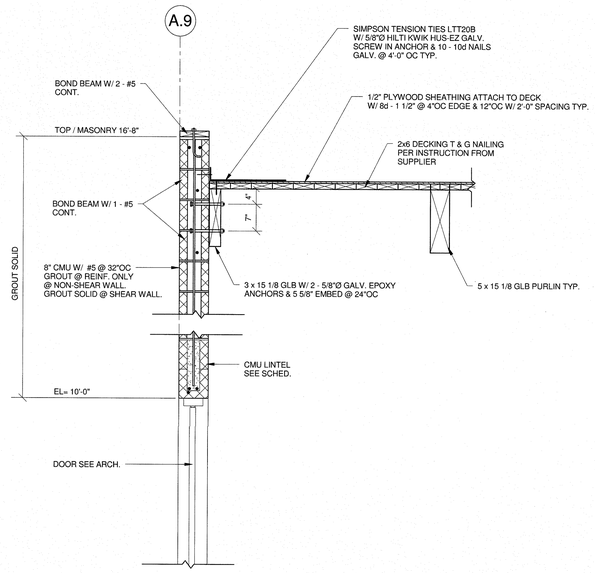
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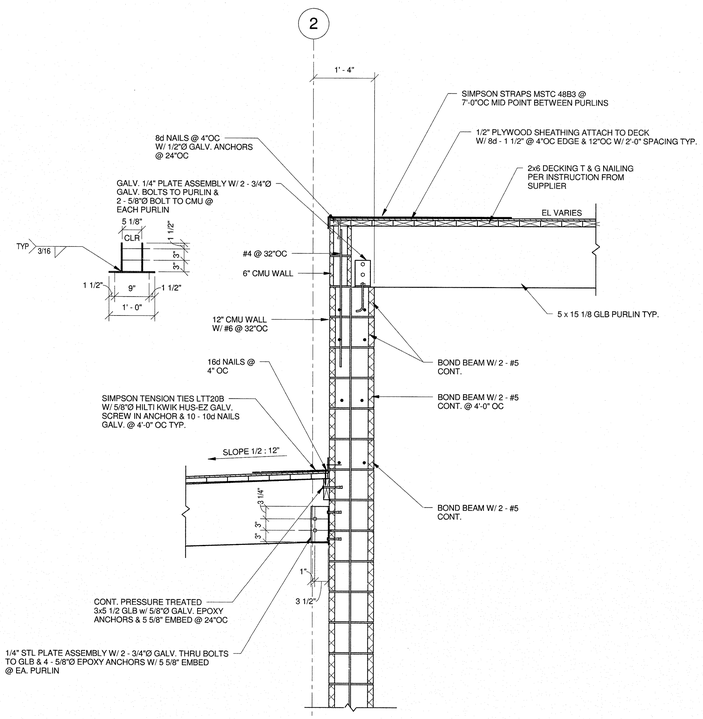
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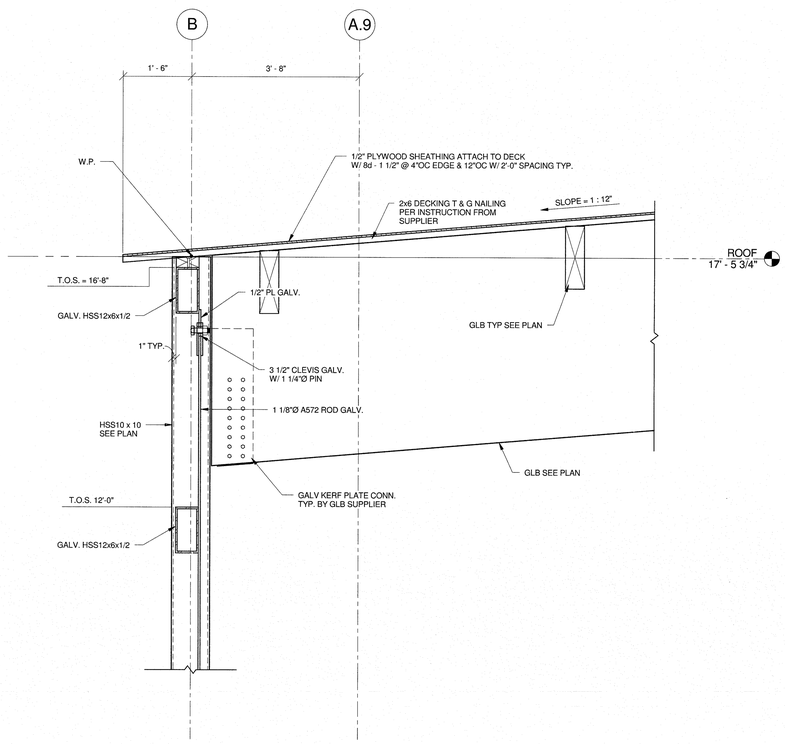
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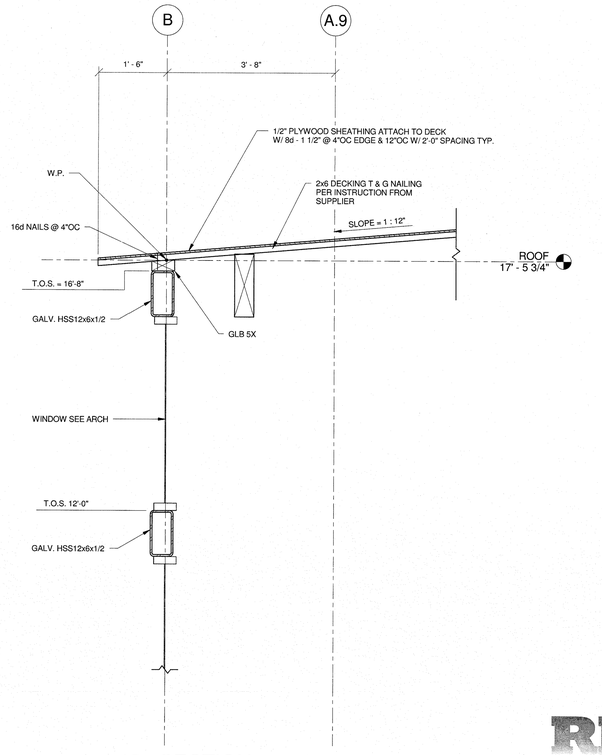
3 SECTION
3/4" = 1'-0"



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



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

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CERTIFICATE OF AUTHORIZATION
Robbins Engineering PLLC
No. 1083
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
WENDUO YIN
7/29/16

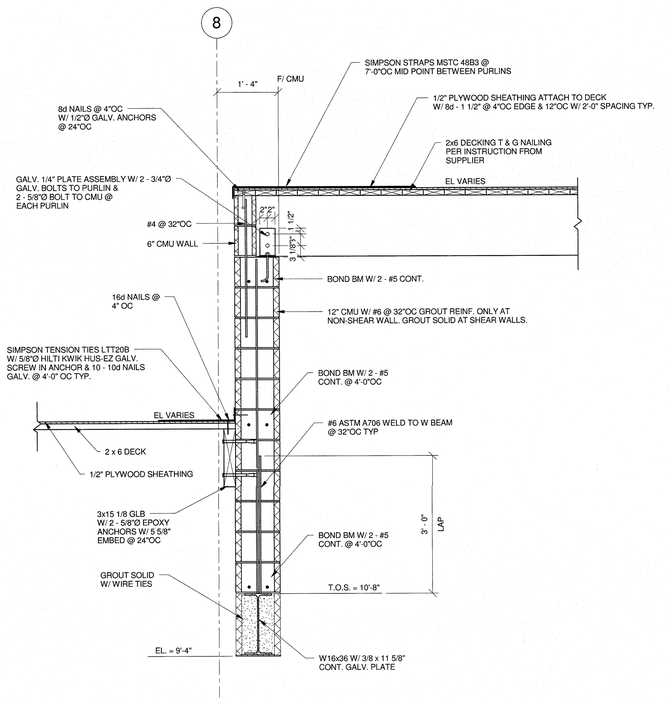
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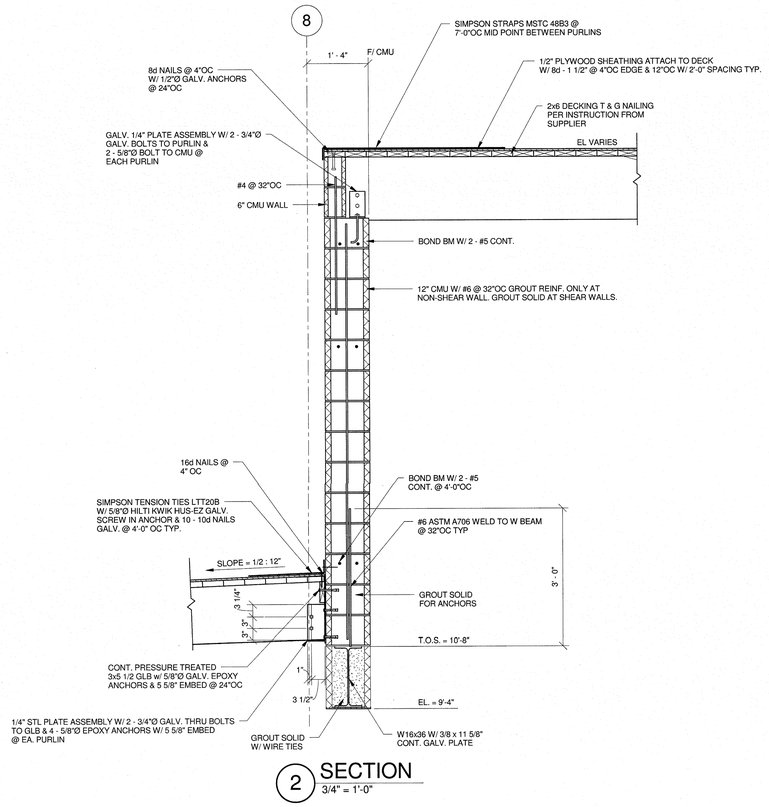
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CITY OF FORREST CITY

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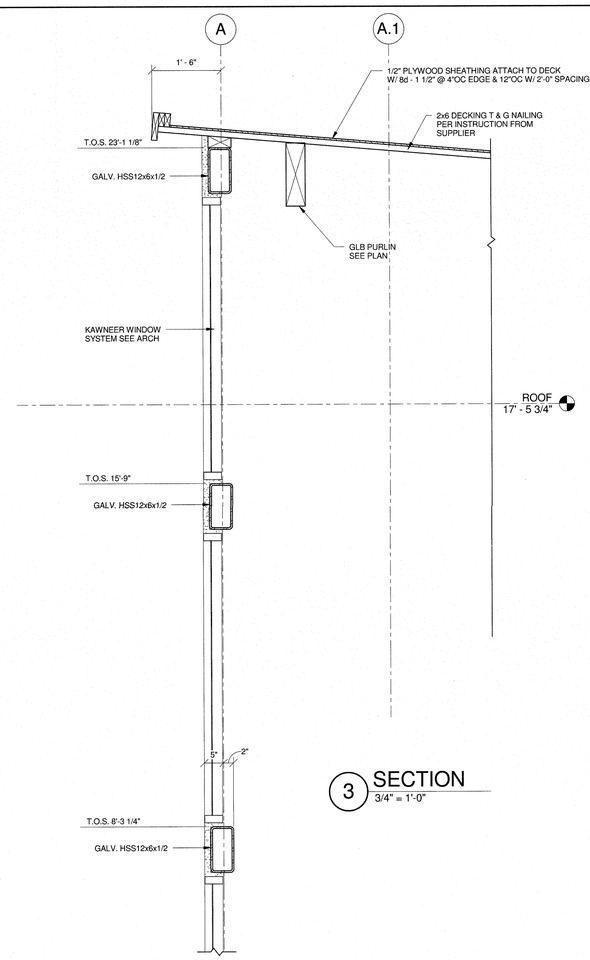
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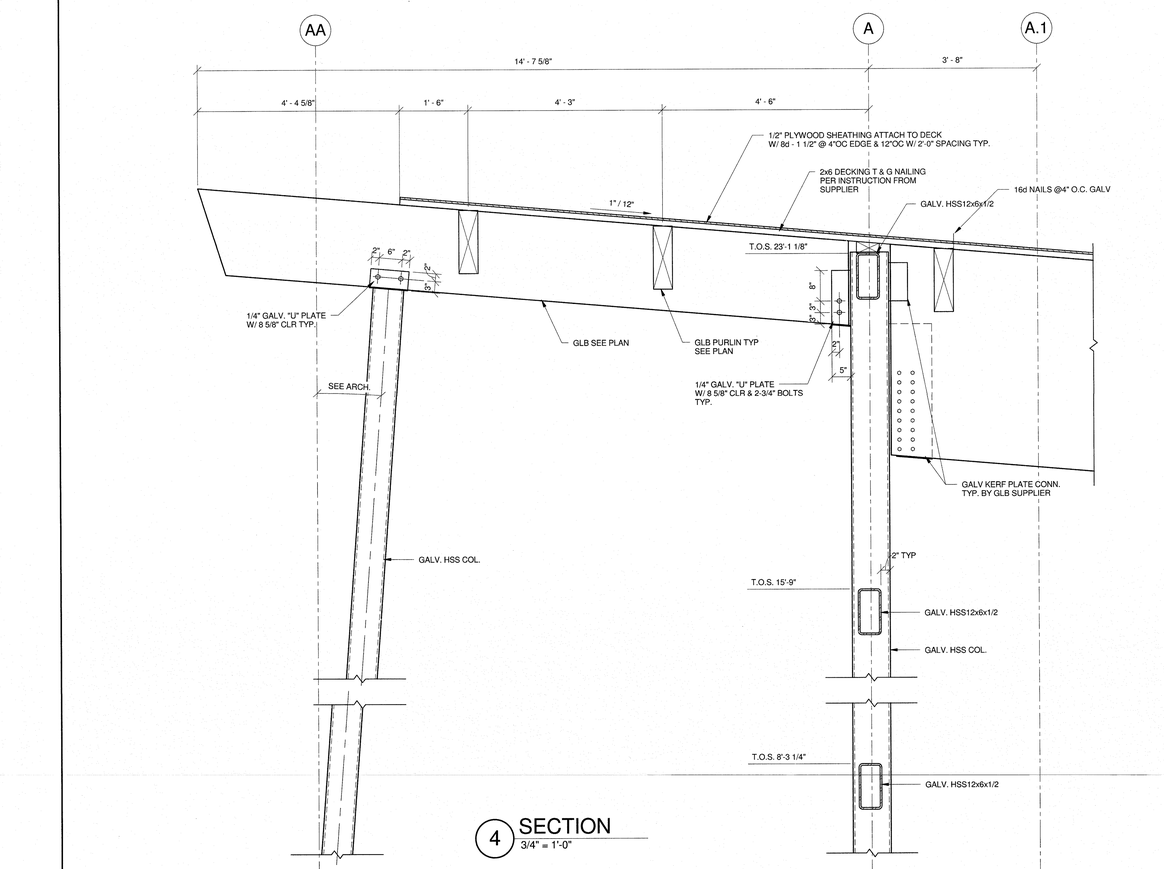
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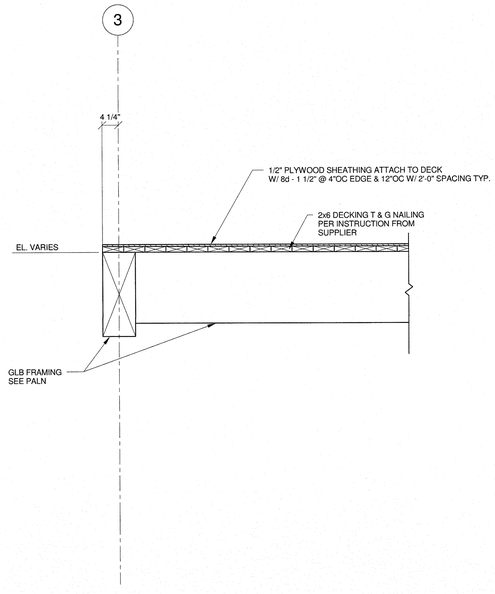
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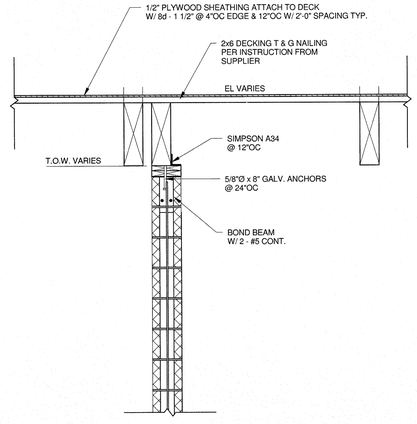
3 SECTION
3/4" = 1'-0"



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



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

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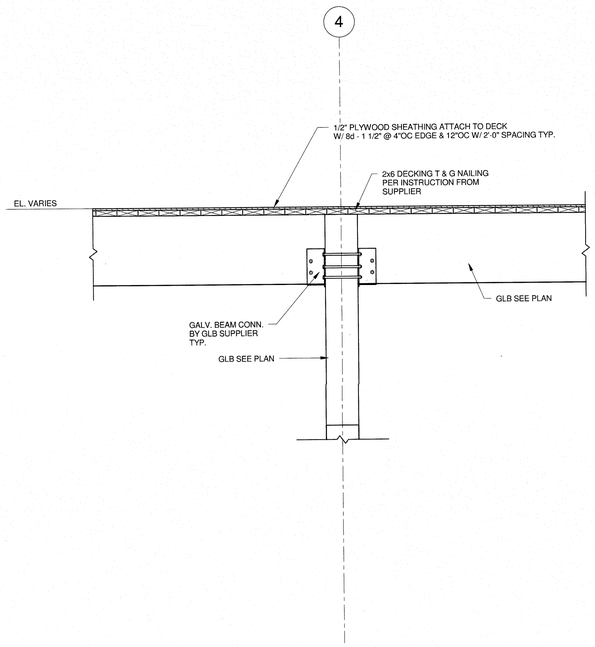
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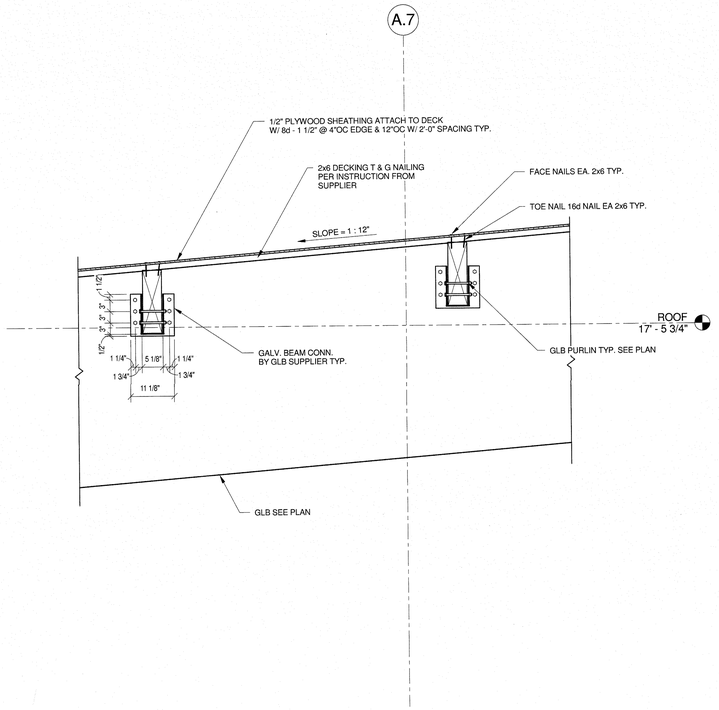
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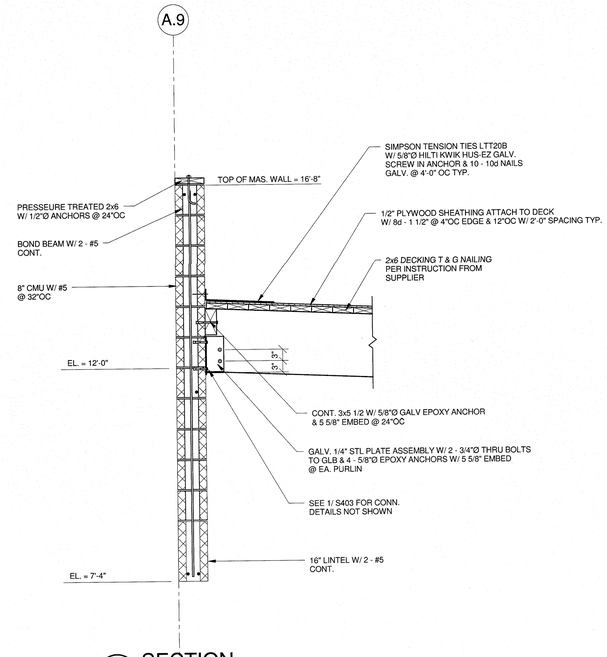
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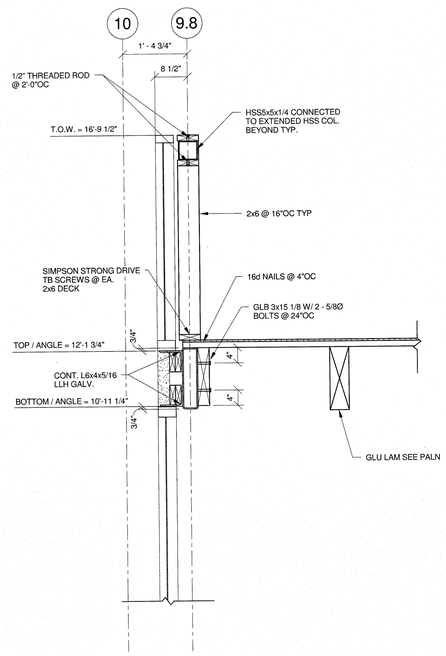
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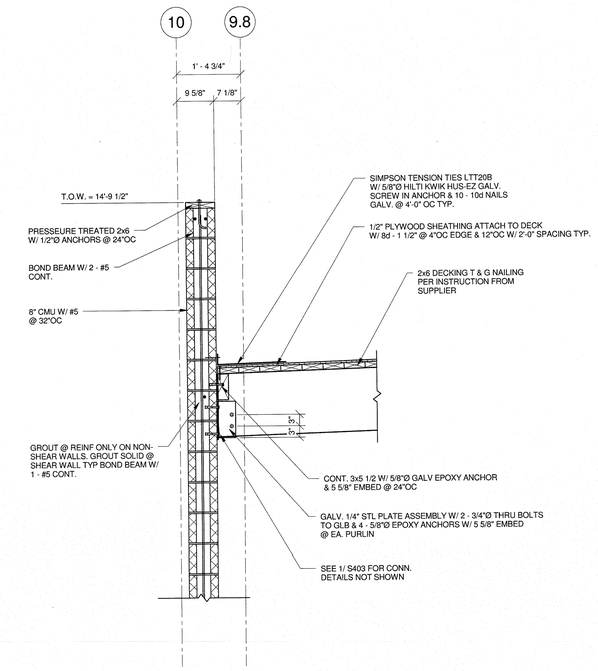
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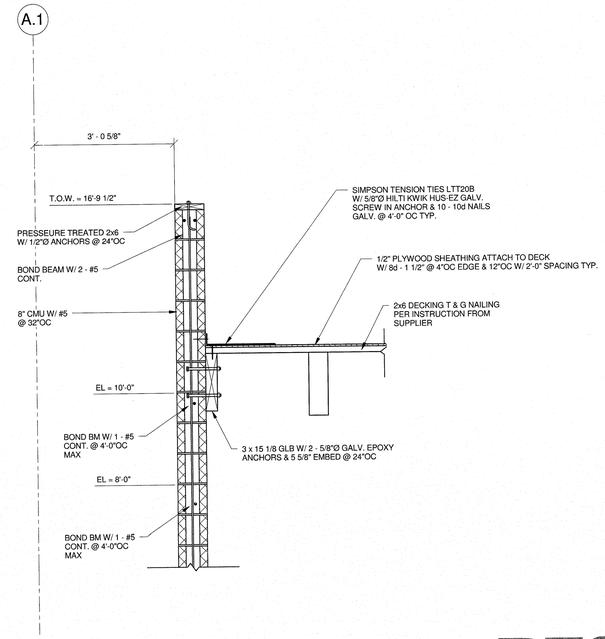
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4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

CERTIFICATE OF AUTHORIZATION
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ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
WENDUO YIN

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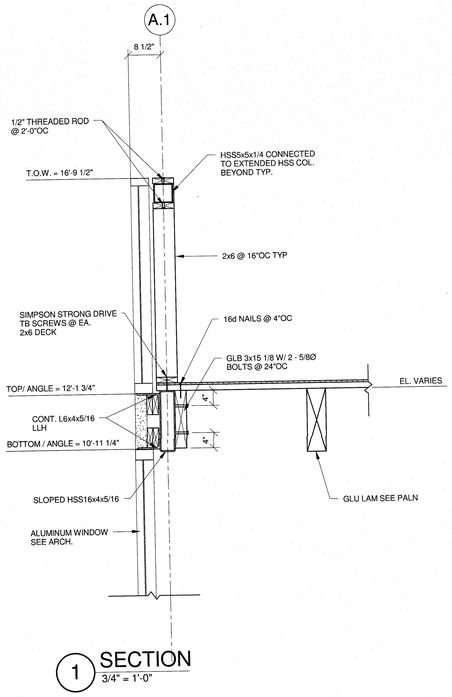
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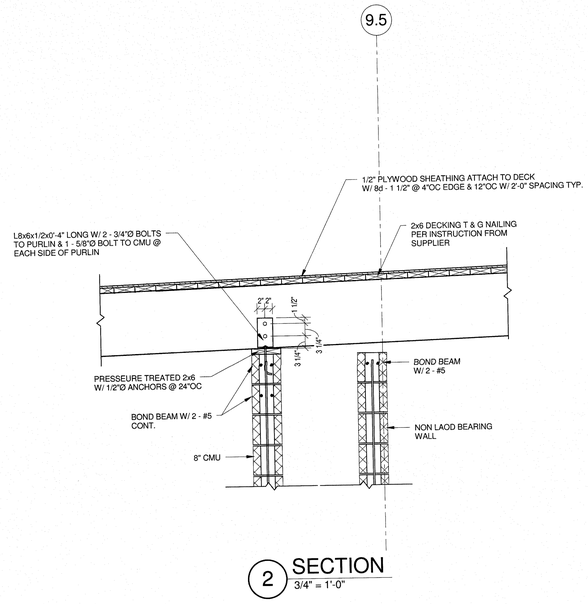
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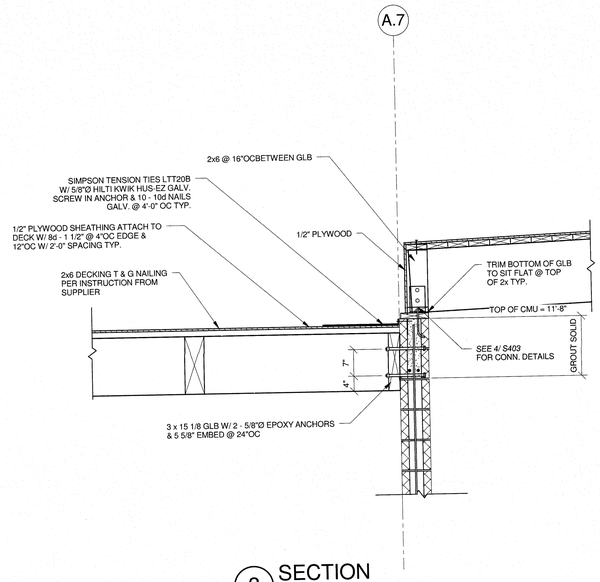
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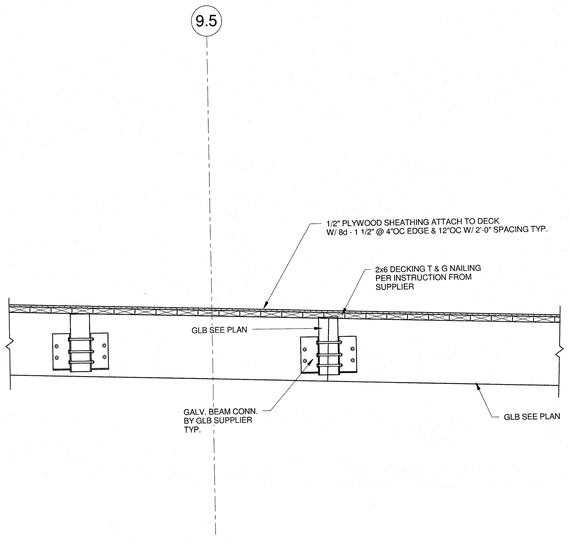
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3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



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



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

CERTIFICATE OF AUTHORIZATION
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ARKANSAS ENGINEERING

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
WENDUO YIN
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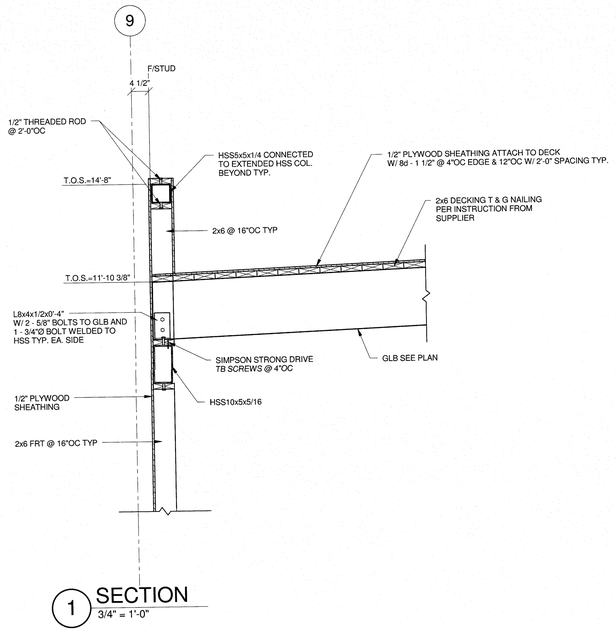
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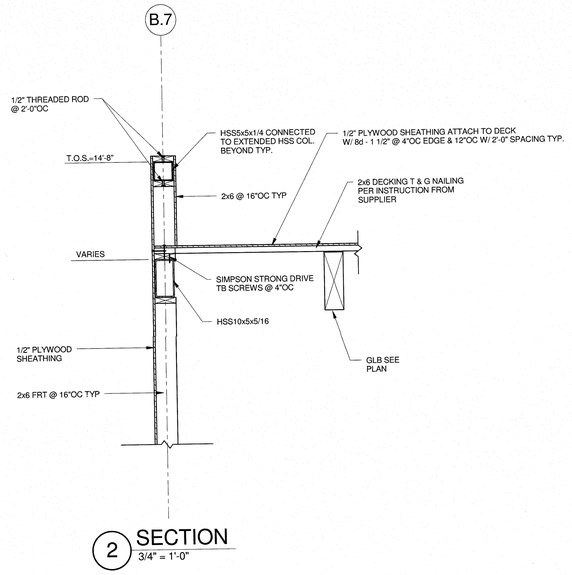
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FRAMING SECTIONS
SHEET: S406

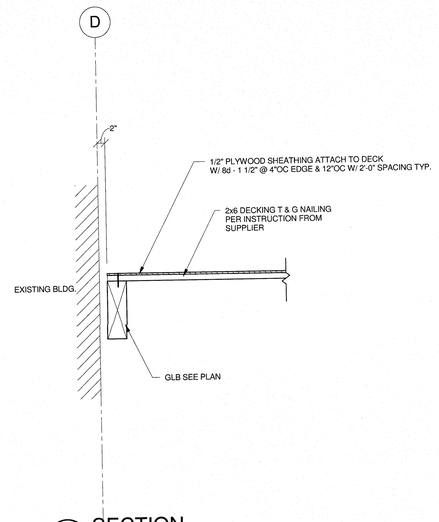
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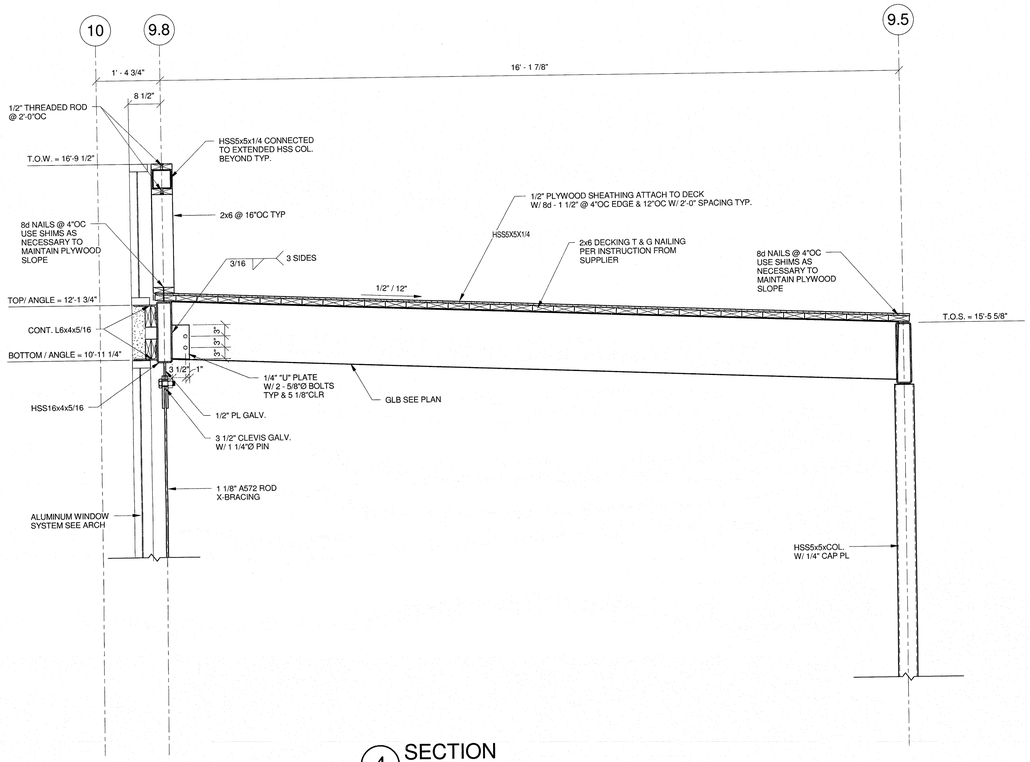
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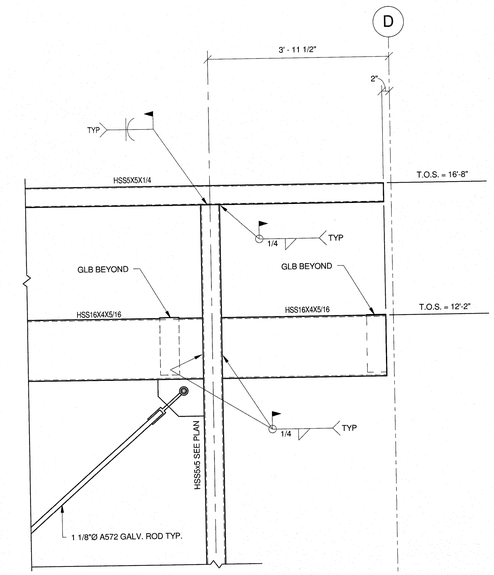
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3 SECTION
3/4" = 1'-0"



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



5 SECTION
3/4" = 1'-0"

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 9260 — BRANDON RYE

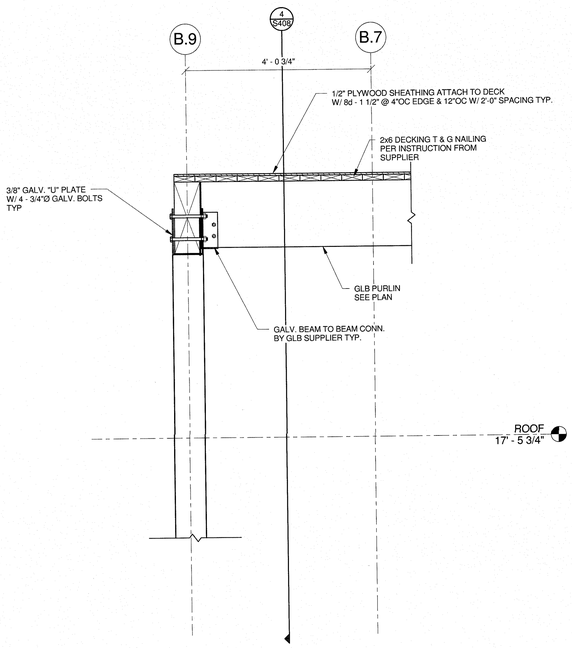
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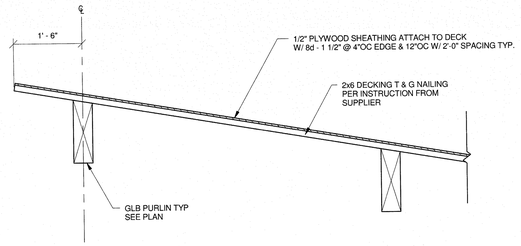
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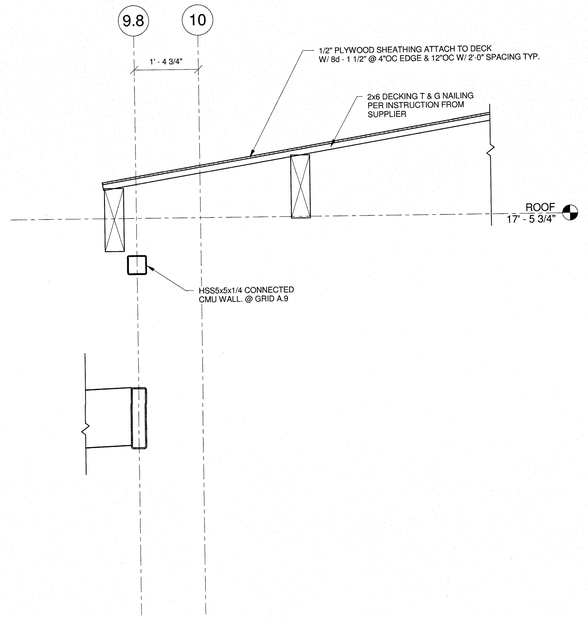
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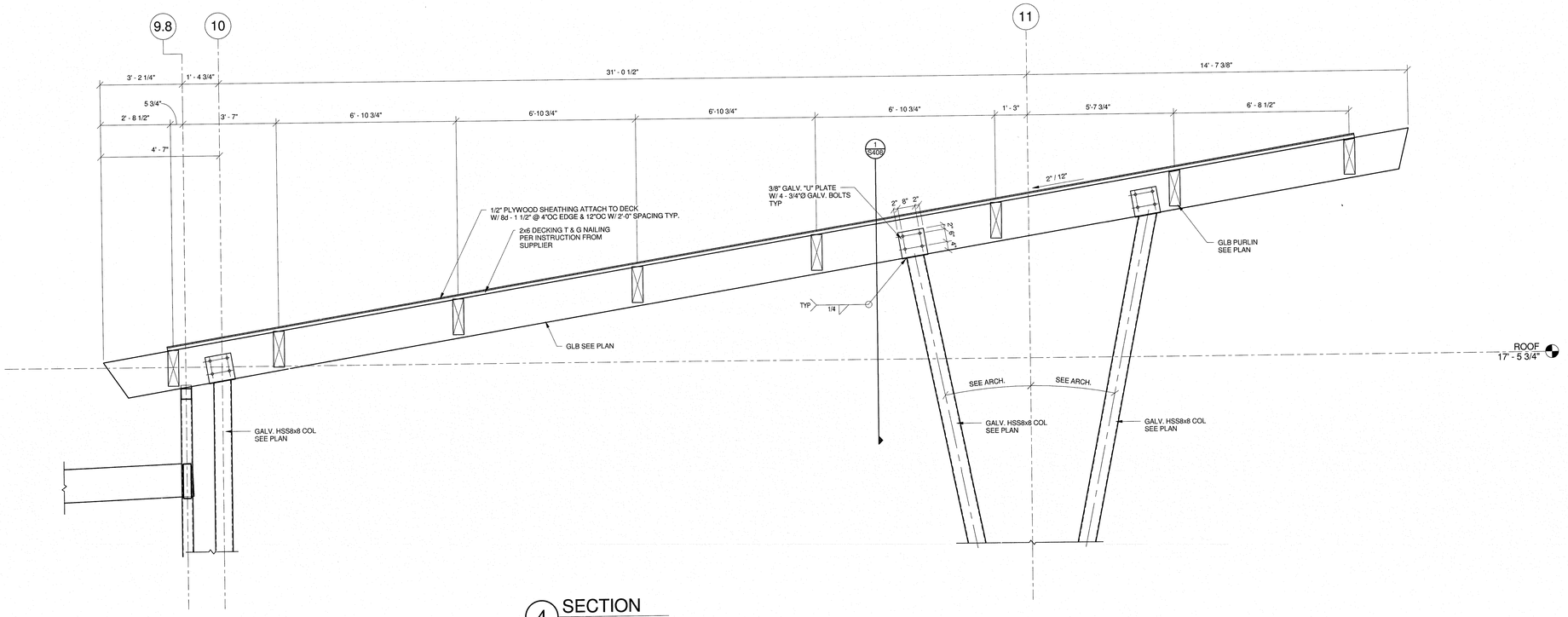
1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



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



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

Robbins Engineering PLLC No. 1083 — CERTIFICATE OF AUTHORIZATION — ARKANSAS ENGINEER

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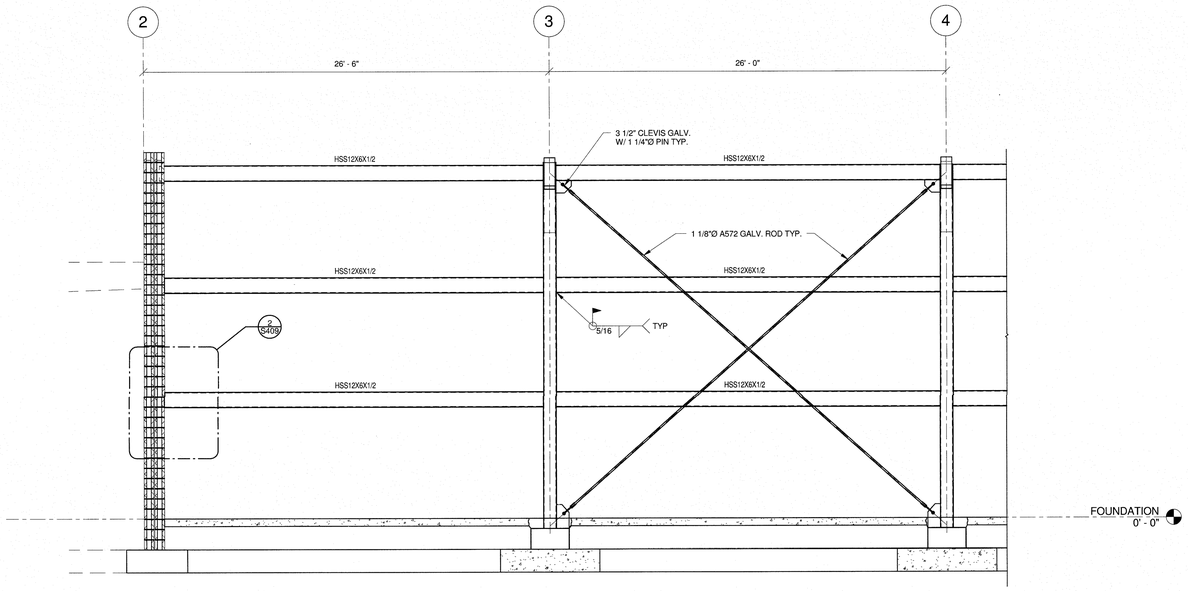
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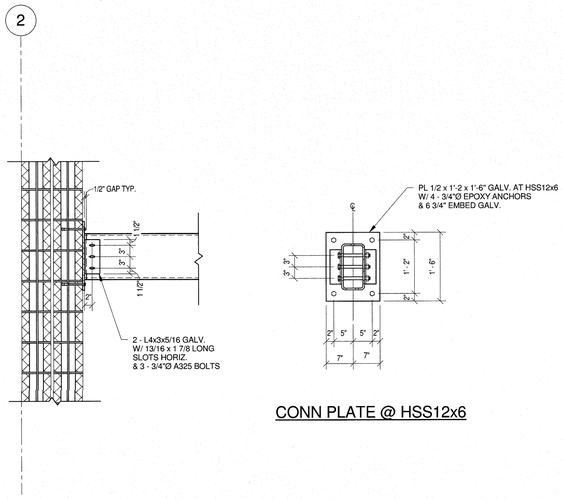
DATE	REVISION

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DATE: 7-29-16
JOB NO: 163901 CFC
FRAMING SECTIONS
SHEET NO: S408

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1 PARTIAL WALL ELEV.
1/4" = 1'-0"



CONN PLATE @ HSS12x6

2 TYP. BEAM TO MASONRY CONNECTION
3/4" = 1'-0"

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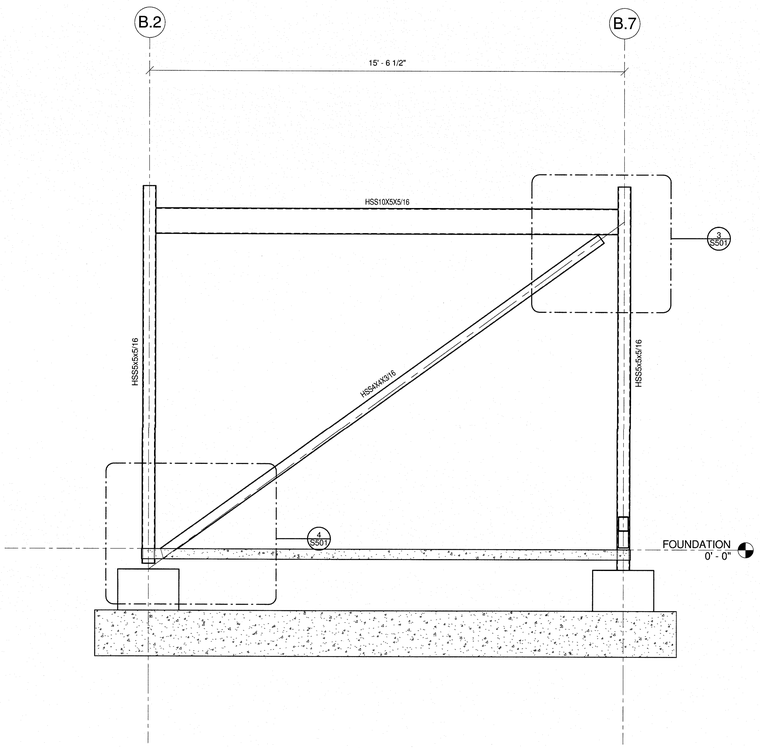
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9260
RANDUO YIN
7/29/16

FORREST CITY
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CITY OF FORREST CITY

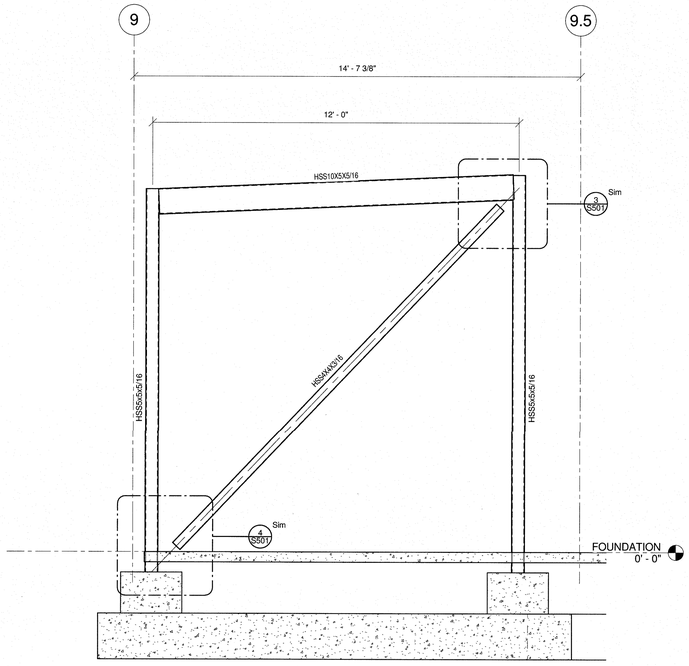
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DATE: 7-29-16
JOB NO: 163901 CFC
PARTIAL WALL FRAMING ELEV.
SHEET: S409

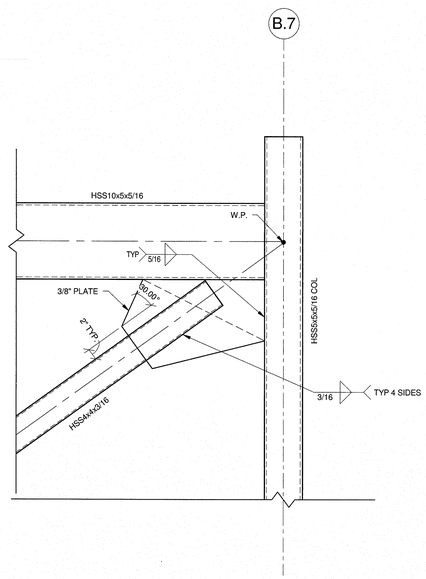
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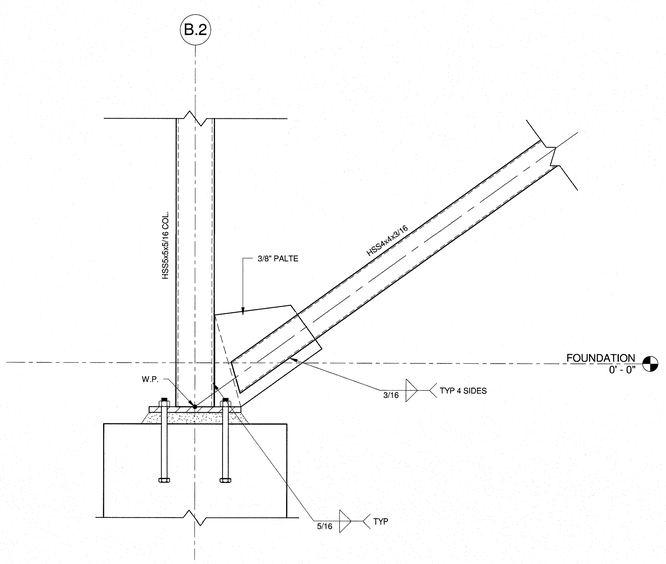
1 BRACED FRAME BF-1
1/2" = 1'-0"



2 BRACED FRAME BF-2
1/2" = 1'-0"



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



4 DETAIL
1 1/2" = 1'-0"

CERTIFICATE OF AUTHORIZATION
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STATE OF ARKANSAS
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No. 9260
WENDUO YIN

7/29/16

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DATE: 7-29-16
JOB NO: 163901 CFC
BRACED FRAME ELEV. & DETAILS
SHEET NO: S501

REC
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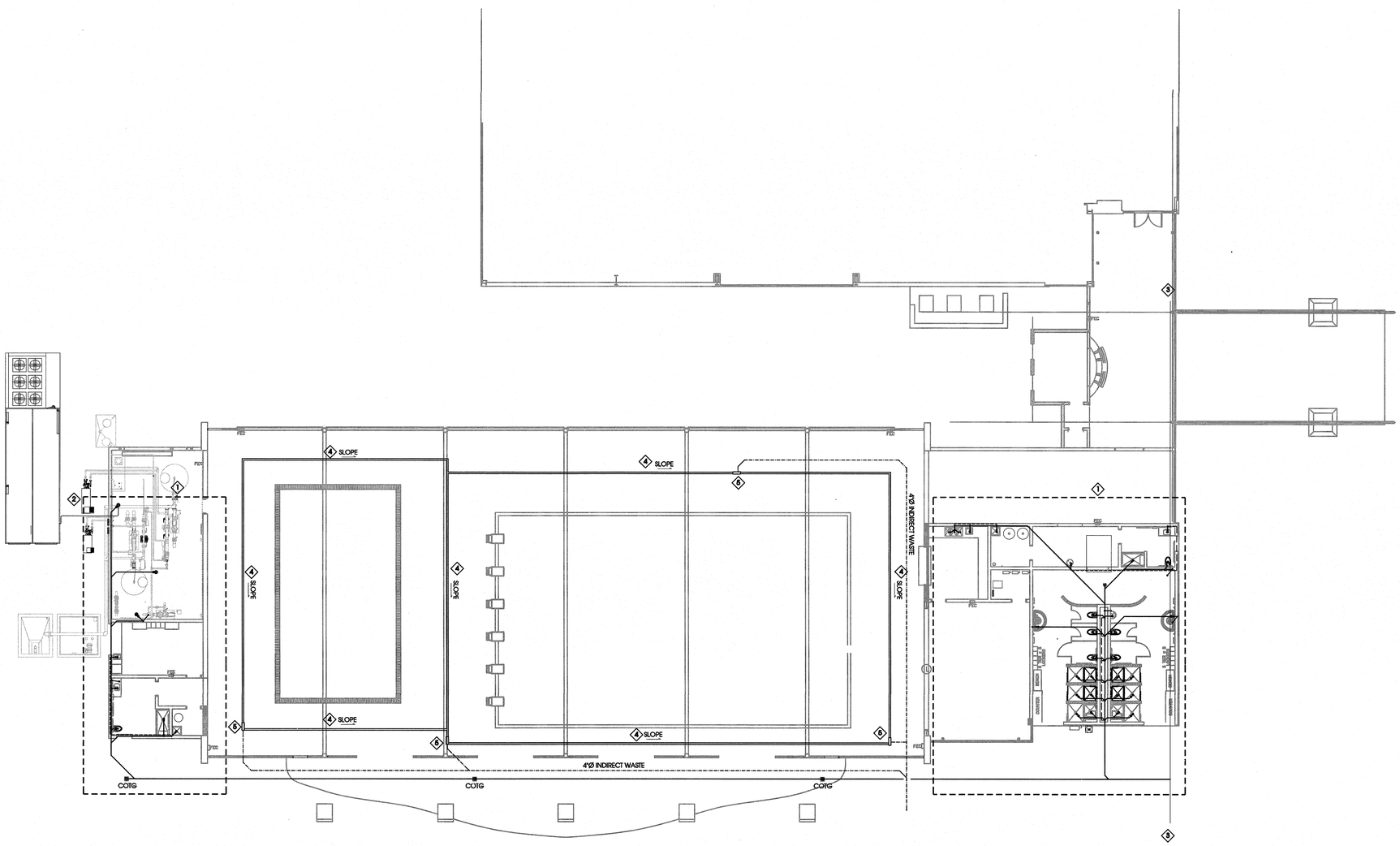
KEY NOTES

1. SEE SHEET P21 FOR ENLARGEMENT OF THIS AREA
2. INDIRECT WASTE (CONDENSATE) FROM DEHUMIDIFICATION UNIT
3. EXISTING 6"Ø SANITARY SEWER; SEE CIVIL DRAWINGS.
4. ACO SYSTEM 4000 TRENCH DRAIN PROVIDED BY PLUMBING CONTRACTOR, SET BY CONCRETE CONTRACTOR; COORDINATE WITH GC & POOL CONTRACTOR.
5. CATCH BASIN; PC SHALL COORDINATE INDIRECT WASTE LINES WITH GC & POOL CONTRACTOR.

SYMBOL LEGEND

SYMBOL	MEANING
	NATURAL GAS (NG)
	WASTE, SANITARY OR STORM
	VENT (V) LINE
	CONDENSATE DRAIN (COND.) - INDIRECT WASTE (IW)
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RETURN (DHWR)
	DOMESTIC TEMPERED WATER (85°-120°) (DTW)
	INDICATES RISER OR ENLARGEMENT OF AREA
	NEW CONSTRUCTION TO EXISTING INTERFACE
	STANDPIPE
	OUTSIDE STEM & YOKE GATE VALVE (OS&Y)
	CHECK VALVE OR BACKFLOW PREVENTER
or	BALL VALVE
or FS	FLOOR SINK
or FD	FLOOR DRAIN
P1	PLUMBING FIXTURE MARK
1	KITCHEN EQUIPMENT MARK
CO	CLEAN OUT
COND.	CONDENSATE DRAIN LINE
COTG	CLEAN OUT THRU GRADE
DWH	DOMESTIC WATER HEATER
EDF	ELECTRIC DRINKING FOUNTAIN
FCO	FLOOR CLEAN OUT
F.S.	FLOOR SINK
FV	FLAT VENT
GHDT	GROUND HYDRANT
AW	ACID WASTE
HD	HUB DRAIN
IW	INDIRECT WASTE
NFHB	NON-FREEZE HOSE BIBB
RCP	RECIRCULATION PUMP
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
S	SOIL
SD	STORM DRAIN-STORM SEWER
SS	SANITARY SEWER
U.N.O.	UNLESS NOTED OTHERWISE
T&P	TEMPERATURE & PRESSURE
TP	TRAP PRIMER
TMV	THERMOSTATIC MIXING VALVE
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WCO	WALL CLEAN OUT
WHDT	WALL HYDRANT
W/V	COMBINATION WASTE-VENT

NOTE: ALL ITEMS SHOWN IN THIS SCHEDULE MAY NOT BE INCORPORATED ON THIS PROJECT



1 P1.1 FLOOR PLAN - SS SEWER
SCALE:3/32"=1'-0"

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No.7899 — JOHN MICHAEL WELLS

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PROJECT NO. 163901 CFC

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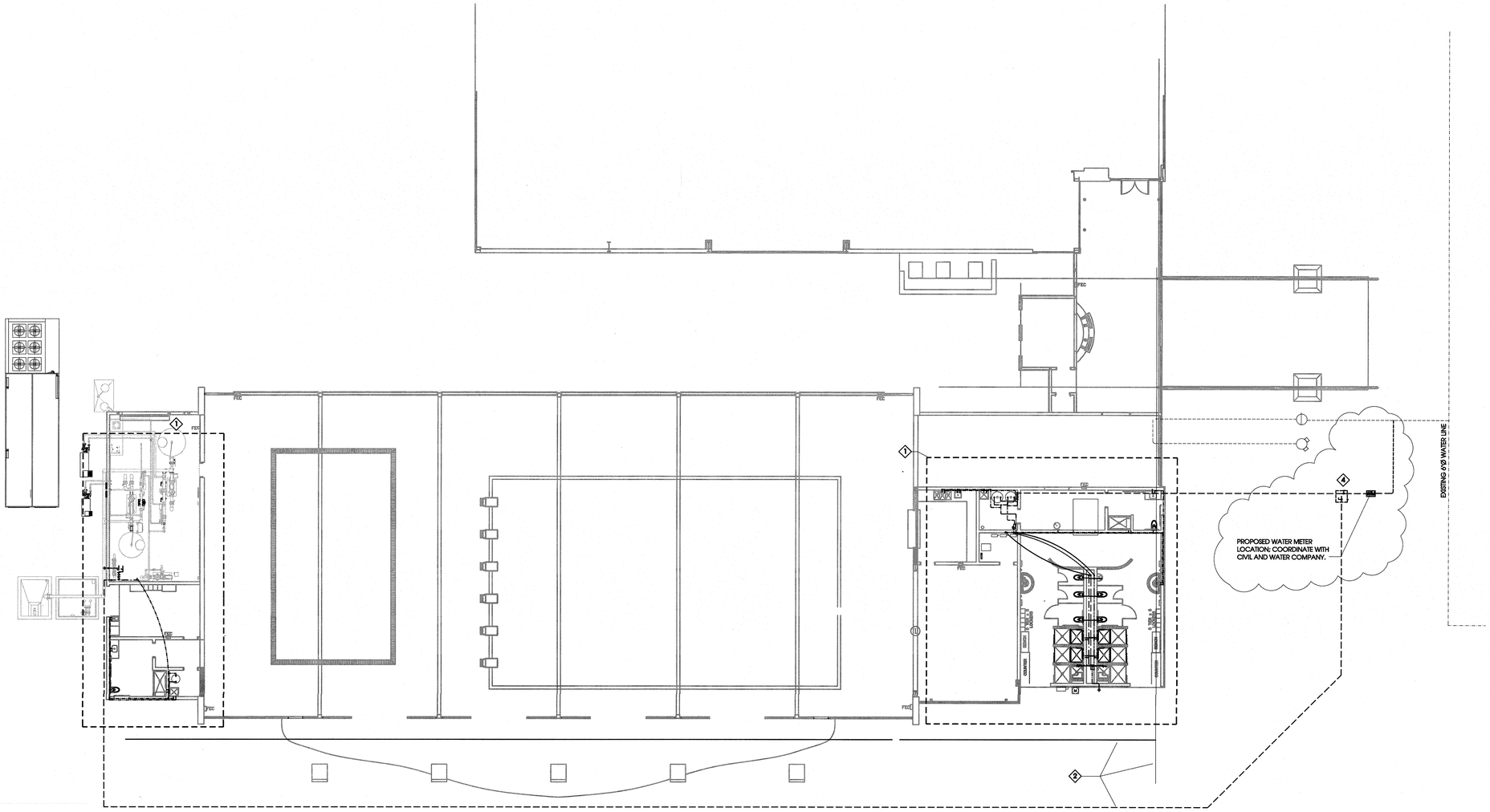
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FLOORPLAN WASTE/VENT & TRENCH DRAINS

P1.1

KEY NOTES

1. SEE SHEET P21 FOR ENLARGEMENT OF THIS AREA
2. MAINTAIN A MIN. 10'-0" OF UNDISTURBED OR COMPACTED EARTH AND A MIN OF 12" FROM BOTTOM OF DOMESTIC WATER PIPE TO TOP OF SEWER LINE AT ALL POINTS AS PER CODE. THE REQUIRED SEPARATION DISTANCE SHALL NOT APPLY WHERE A WATER SERVICE PIPE CROSSES A SEWER PIPE PROVIDED THE WATER SERVICE PIPE IS SLEEVED TO AT LEAST 10'-0" HORIZONTALLY FROM THE SEWER PIPE CENTER LINE, ON BOTH SIDES OF SUCH CROSSINGS.
3. DELETE
4. PROVIDE IN-GROUND PVC LOCKING VALVE BOX



1 P1.2 FLOOR PLAN - DOMESTIC WATER
SCALE:3/32"=1'-0"

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ARKANSAS

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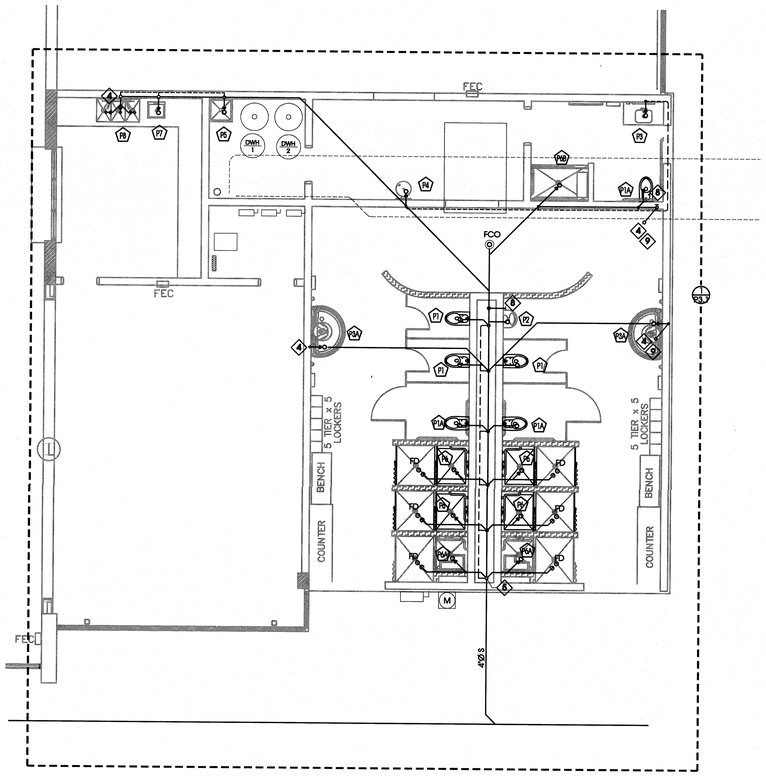
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PROJECT PHASE
Construction Documents

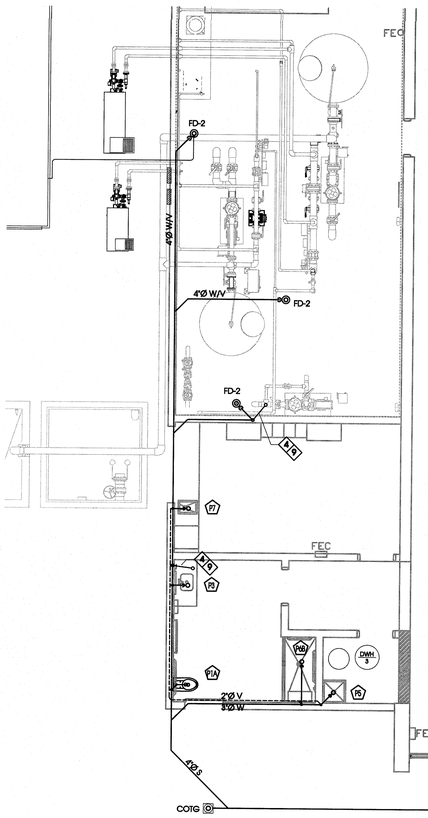
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FLOORPLAN
DOMESTIC WATER

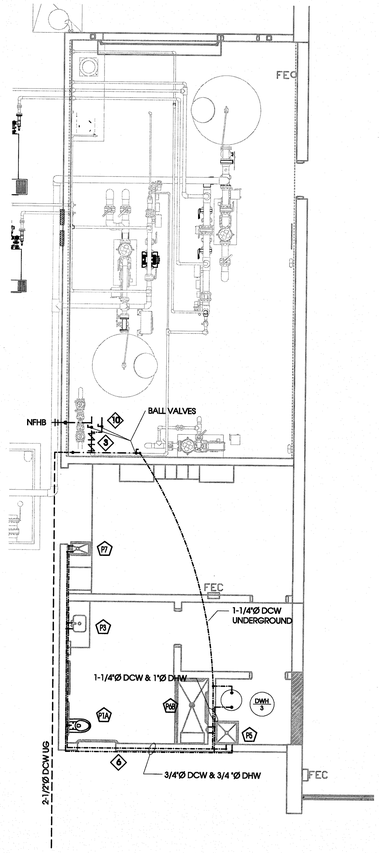
P1.2



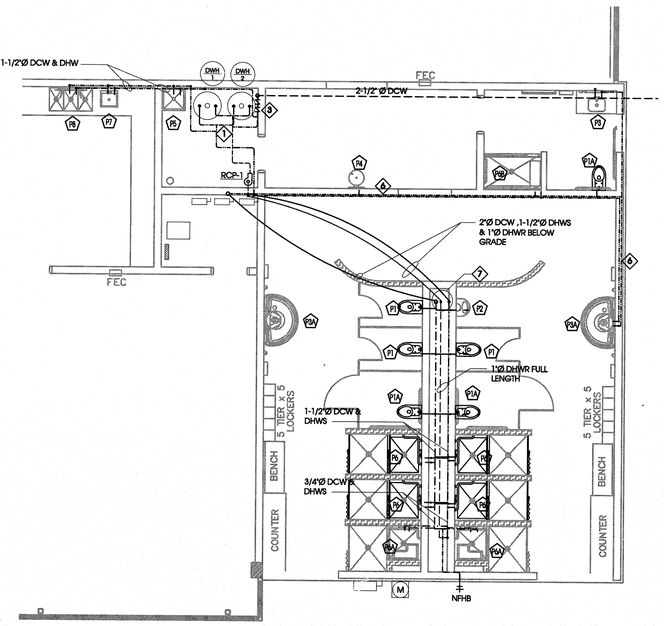
2 P2.1 SHOWER AREA - WASTE/VENT
SCALE:3/16"=1'-0"



3 P2.1 WEST TOILET/ EQP. ROOM - WASTE/VENT
SCALE:3/16"=1'-0"



4 P2.1 WEST TOILET/EQP. ROOM - DOMESTIC WATER
SCALE:3/16"=1'-0"



1 P2.1 SHOWER AREA - DOMESTIC WATER
SCALE:3/16"=1'-0"

KEY NOTES

1. SEE DWH PIPING DETAIL ON SHEET P3.2
2. CROSS-CONNECT DHWS & DHWR AT THIS POINT
3. PROVIDE 2-1/2"Ø RPBP IN RISER, SEE DETAIL SHT. P3.2
4. 2"Ø VTR
5. 3"Ø VTR
6. ROUTE WATER LINES IN WALL OR BELOW SLAB AS SHOWN OR AS NECESSARY.
7. ROUTE DOM. WTR. UP INSIDE CHASE AT OR BELOW 8'-0" AFF.
8. FULL SIZE WCO
9. OFFSET VTR AWAY FROM BLDG. EDGE
10. 2"Ø STUB-OUT FOR POOL EQUIPMENT

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STATE OF ARKANSAS
JOHN MICHAEL WILLIS
PROFESSIONAL ENGINEER
No.7899

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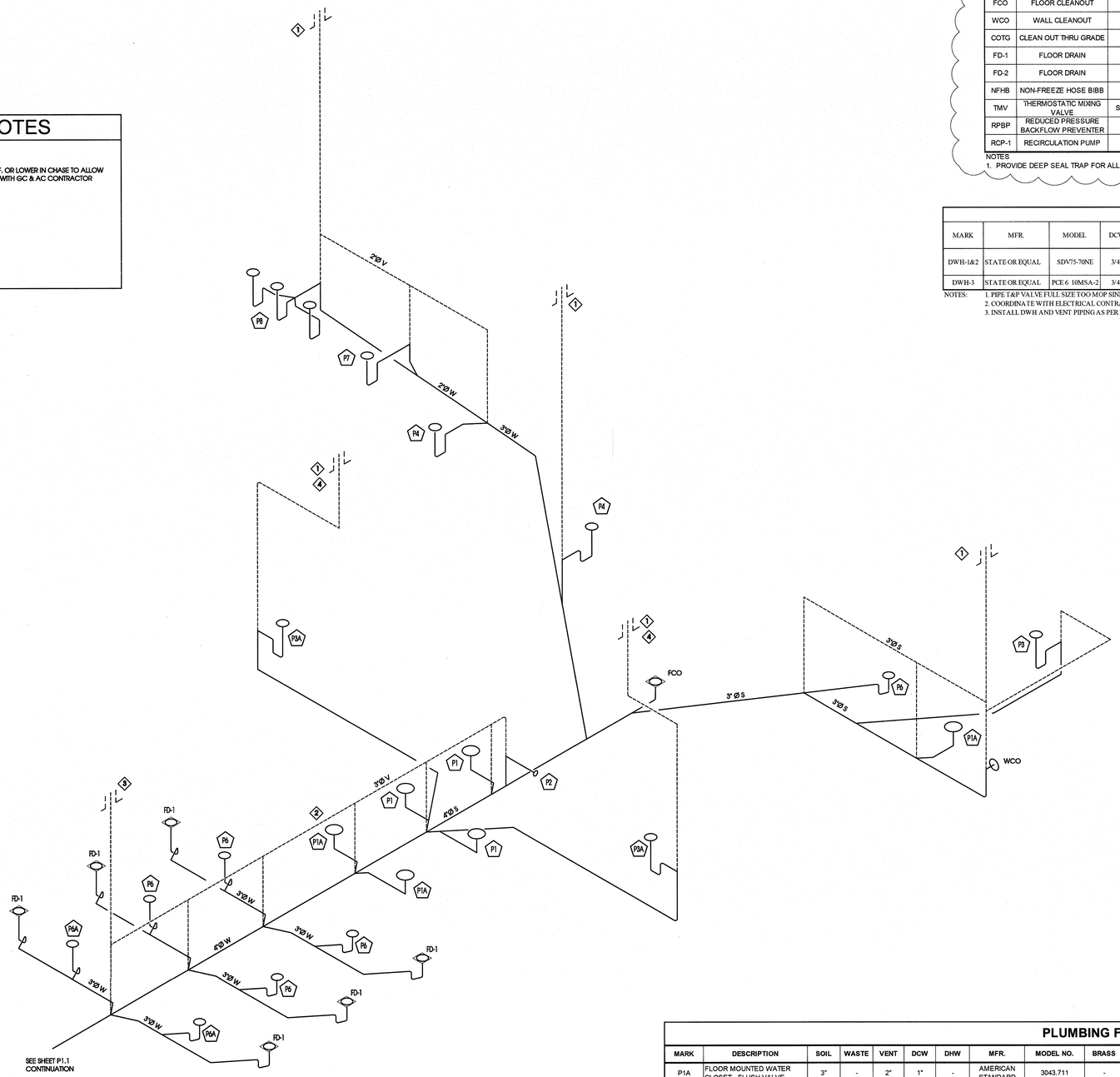
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PROJECT PHASE: Construction Documents
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CHECKED BY: JWW

PLUMBING ENLARGEMENTS

P2.1

KEY NOTES

1. 2"Ø VTR
2. HOLD VENT CONNECTOR AT 8'-0" AFF. OR LOWER IN CHASE TO ALLOW FOR AC SUPPLY DUCT; COORDINATE WITH GC & AC CONTRACTOR
3. 3" Ø VTR
4. OFFSET VTR AWAY FROM ROOF EDGE



1 / P3.1 WASTE & VENT RISER DIAGRAM
NO SCALE

SPECIALTY PLUMBING SCHEDULE

MARK	DESCRIPTION	MFR./MODEL	REMARKS
FCO	FLOOR CLEANOUT	WADE	CLEANOUT WITH SECURED SCORIATED COVER6000 SERIES (SUFFIX -1, -D ALWAYS AND -CF, -T WHEN NEEDED)
WCO	WALL CLEANOUT	WADE	SHALL BE SANITARY TEE'S, WYE'S OR COMBINATION WITH THE WADE MODEL 8550 FERRULE & PLUG
COTG	CLEAN OUT THRU GRADE	WADE	MODEL # 8550 C.O. WITH HEAVY DUTY SECURED COVER & SET IN 12"x12"x6" CONCRETE PAD
FD-1	FLOOR DRAIN	ORION	MODEL AWFDSTD, ASTM D1101 POLYPROPYLENE W/ TRAP PRIMER
FD-2	FLOOR DRAIN	WADE	MODEL #1102-STD-5-1 WITH DEEP SEAL TRAP, SATIN NICKEL BRONZE TOP, ADJUSTABLE STRAINER SATIN NICKEL BRONZE TOP, ADJUSTABLE STRAINER
NFHB	NON-FREEZE HOSE BIBB	WADE	MODEL 8800-175 SERIES WITH STRAIGHT INLET CONNECTIONS, BRONZE CASING, BRONZE FACE, ANTI-SIPHON BACK-FLOW PREVENTER AND CHROME PLATED BRONZE BOX
TMV	THERMOSTATIC MIXING VALVE	SYMMONS	MODEL #5-900 WITH REPLACEABLE CARTRIDGE, STAINLESS STEEL PISTON, SELF CLEANING SWIVEL ACTION BRONZE CHECK STOPS, STAINLESS STEEL RENEWABLE SEATS AND LOCKABLE SETTING TO
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS	MODEL # 909M1QT-S REDUCED PRESSURE PRINCIPLE TYPE BACKFLOW PREVENTER WITH STRAINER
RCP-1	RECIRCULATION PUMP	TACO	MODEL # IL113 7 DAY TIME CLOCK CONTROLLER

NOTES
1. PROVIDE DEEP SEAL TRAP FOR ALL FLOOR DRAINS.

DOMESTIC WATER HEATER SCHEDULE

MARK	MFR.	MODEL	DCW	DHW	1ST HOUR DELIVERY 100 DEG. RISE	RECOVERY 100 DEG. RISE	GAS CONNECTION	VENT CONNECTION	WATTS	ELEC VOLTS/PH/HZ	NOTES
DWH-1&2	STATE OR EQUAL	SDV75-70NE	3/4"	3/4"	117 GAL	64 GPH	3/4"	3" SCHEDULE 40 PVC, SEE SCHEMATIC THIS SHT	NA	120V/1PH/60	SEE NOTES
DWH-3	STATE OR EQUAL	PCE 6 10MSA-2	3/4"	3/4"	17 GPH	13 GPH	-	-	1 @ 2.0 KW	208V/1/60	SEE NOTE .....

NOTES:
1. PIPE T&P VALVE FULL SIZE TOO MOP SINK
2. COORDINATE WITH ELECTRICAL CONTRACTOR.
3. INSTALL DWH AND VENT PIPING AS PER MANUFACTURERS SPECIFICATIONS

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	SOIL	WASTE	VENT	DCW	DHW	MFR.	MODEL NO.	BRASS	TRAP	FAUCET/VALVE	REMARKS
P1A	FLOOR MOUNTED WATER CLOSET- FLUSH VALVE	3"	-	2"	1"	-	AMERICAN STANDARD	3043.711	-	-	SELECTRONIC 6067.111	PROVIDE OPEN FRONT SEAT BENEKE #533 (WHITE IN COLOR)
P1	FLOOR MOUNTED WATER CLOSET- FLUSH VALVE	3"	-	2"	1"	-	AMERICAN STANDARD	3043.711	-	-	SELECTRONIC 6067.111	PROVIDE OPEN FRONT SEAT BENEKE #533 (WHITE IN COLOR)
P2	URINAL - ADA	2"	-	2"	3/4"	-	AMERICAN STANDARD	6501.615	-	-	SELECTRONIC 6067.111	MEET ADA REQUIREMENTS
P3	COUNTER TOP LAVATORY	-	1-1/2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD	3004.207	MCGUIRE 155-A2	1-1/2" 17 GA.	SYMMONS S-6060-ACM-12V	LOW FLOW RESTRICTOR
P3A	54 IN.WASHFOUNTAIN (ADA)	-	2"	1-1/2"	1/2"	1/2"	BRADLEY	SN2004	-	2" 17 GA.	SPRAY TYP	INFRARED SENSOR
P4	WATER COOLER	-	1-1/4"	1-1/4"	3/8"	-	HAWS	H1001.8	-	1-1/4" 17 GA.	-	MEET ADA REQUIREMENTS, ELECTRICAL CONTRACTOR TO PROVIDE 115V/1PH/60HZ SUPPLY(COORDINATE WITH ELECTRICAL CONTRACTOR)
P5	MOP SINK	-	3"	2"	1/2"	1/2"	STERN WILLIAMS	CRS-2210	-	3"	STERN WILLIAMS T-10-VB	PROVIDE WITH T-40 MOP HANGER, V-70 BUMPER GUARD, T-10-VB FAUCET WITH BUCKET HOOK AND 3/4" HOSE THREAD
P6	SHOWER	-	2"	1-1/2"	1/2"	1/2"	N/A	-	-	2" PVC	KOHLER K-T396-4 CP	
P6A	SHOWER - ADA	-	2"	1-1/2"	1/2"	1/2"	N/A	-	-	2" PVC	DELTA T13H382-20	MEET ADA REQUIREMENTS, PROVIDE SINGLE LEVER PRESSURE BALANCING MIXING VALVE, HAND HELD SPRAY AND 30" SLIDE BAR
P6B	SHOWER - ADA	-	2"	1-1/2"	1/2"	1/2"	N/A	-	-	2" PVC	DELTA T13H382-20	MEET ADA REQUIREMENTS, PROVIDE SINGLE LEVER PRESSURE BALANCING MIXING VALVE, HAND HELD SPRAY AND 30" SLIDE BAR
P7	HAND SINK	-	1-1/2"	1-1/2"	1/2"	1/2"	JUST	SLN-1815-A-GR	MCGUIRE 155-A2	1-1/2" 17 GA.	JUST JWF-200 W4	WRIST BLADES, 1.0 GPM AERATORS
P8	3-COMPARTMENT SINK	-	2"	2"	1/2"	1/2"	JUST	T-1955-A-GR	J-35	2" 17 GA.	CHICAGO FAUCETS 445-DJ13CP	

NOTES:
1. PROVIDE WITH TRANSFORMERS REQUIRED TO OPERATE ALL INFRARED FIXTURES, COORDINATE WITH ELECTRICAL CONTRACTOR
2. INSTALL PER MANUFACTURERS RECOMMENDATIONS
3. ALL PLUMBING FIXTURES ARE "OR EQUAL" AND SHALL BE ARCHITECT APPROVED

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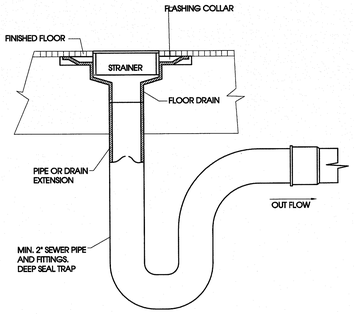
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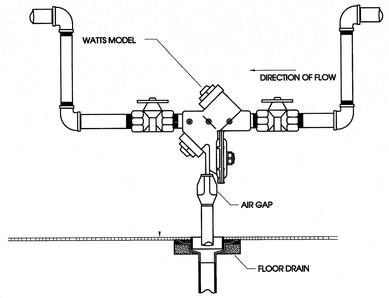
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WASTE/VENT RISER & SCHEDULES

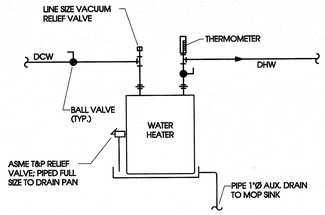
P3.1



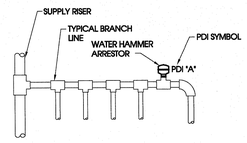
1 P3.2 FLOOR DRAIN DETAIL
NO SCALE



4 P3.2 HORIZONTAL BACKFLOW PREVENTOR INSTALLATION DETAIL
NO SCALE



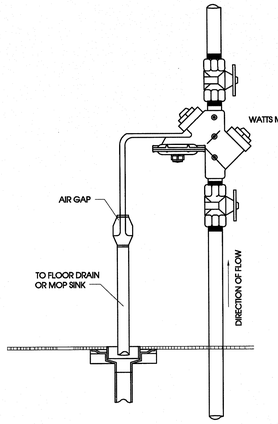
7 P3.2 DWH PIPING SCHEMATIC
NO SCALE



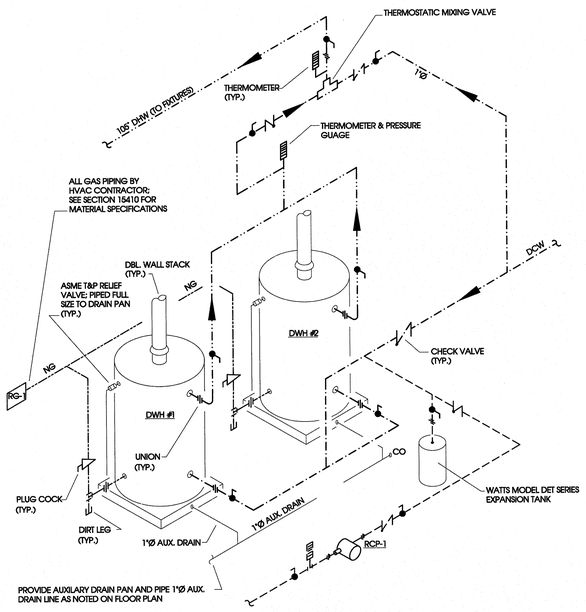
NOTES:

1. PREFERRED INSTALL WATER HAMMER ARRESTORS AT THE END OF BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED.
2. ONE WATER HAMMER ARRESTOR PER 20' LINE, AND ANOTHER FOR BRANCHES OVER 20' IN LENGTH.
3. THE SUM OF FIXTURE UNIT RATING OF UNITS OVER 20' IN LENGTH SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.

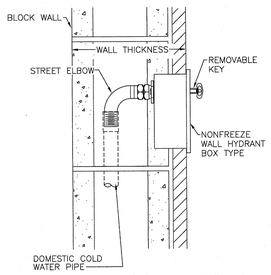
2 P3.2 WATER HAMMER ARRESTOR DETAIL
NO SCALE



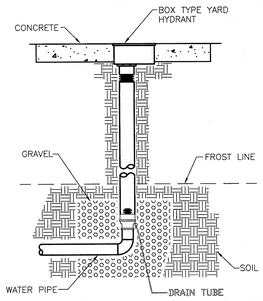
5 P3.2 VERTICAL BACKFLOW PREVENTOR INSTALLATION DETAIL
NO SCALE



8 P3.2 DWH PIPING SCHEMATIC
NO SCALE



3 P3.2 NON--FREEZE WALL HYDRANT DETAIL
NO SCALE



3 P3.2 NON--FREEZE HALL HYDRANT DETAIL
NO SCALE

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LARRY S. BRYANT HEALTH AND WELLNESS CENTER EXPANSION/AQUATIC CENTER

FORREST CITY, AR

ISSUE / DATE	
7.29.2016	CONSTRUCTION DOCS
DATE	DESCRIPTION

PROJECT NO. 163901 CFC

PROJECT PHASE: Construction Documents

DRAWN BY: JMW — CHECKED BY: JMW

PLUMBING DETAILS

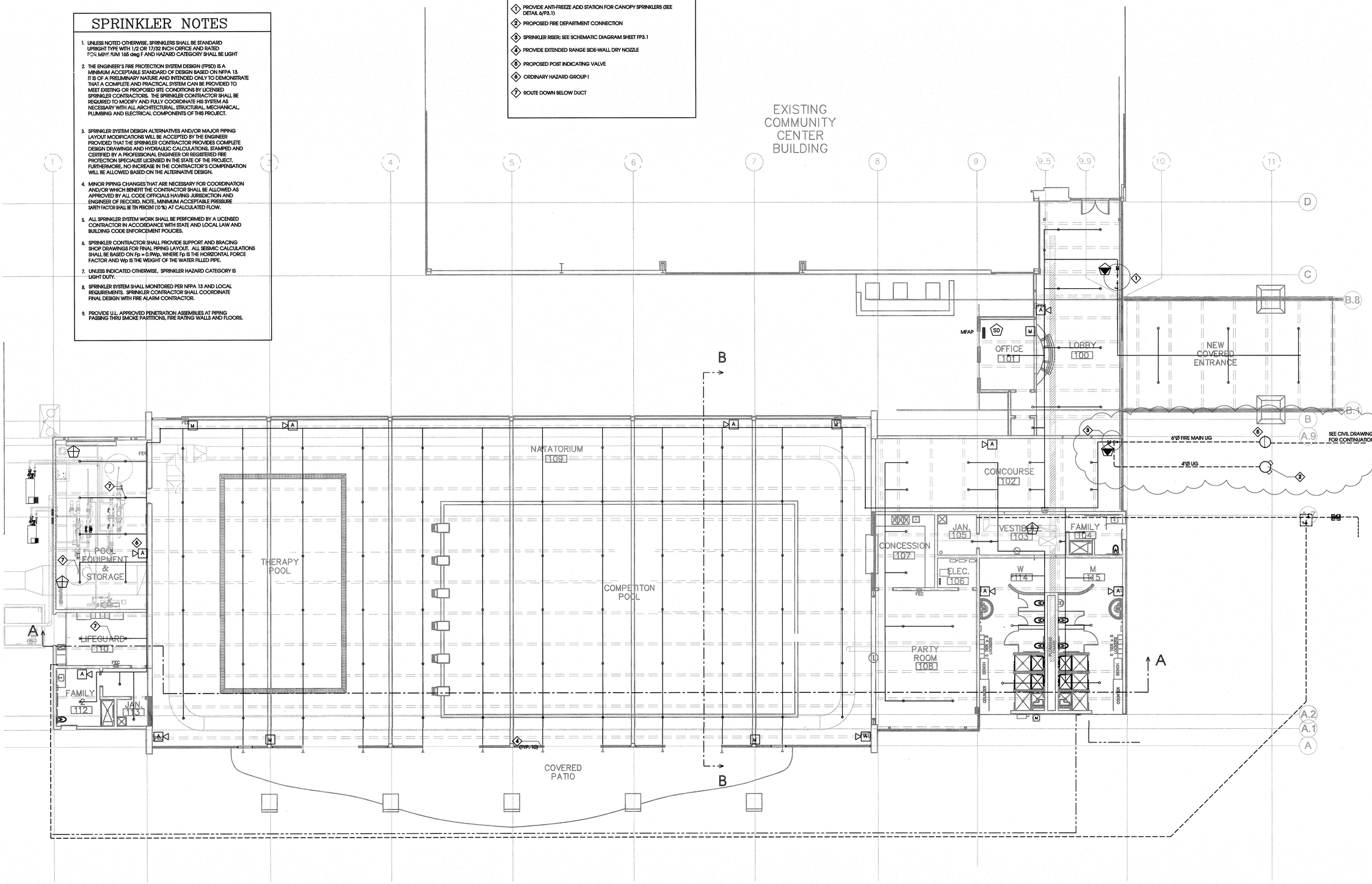
P3.2

SPRINKLER NOTES

1. UNLESS NOTED OTHERWISE, SPRINKLERS SHALL BE STANDARD UPRIGHT TYPE WITH 1/2 OR 17/32 INCH ORIFICE AND RATED FOR MINIMUM 165 deg F AND HAZARD CATEGORY SHALL BE LIGHT
2. THE ENGINEER'S FIRE PROTECTION SYSTEM DESIGN (FPSD) IS A MINIMUM ACCEPTABLE STANDARD OF DESIGN BASED ON NFPA 13. IT IS OF A PRELIMINARY NATURE AND INTENDED ONLY TO DEMONSTRATE THAT A COMPLETE AND PRACTICAL SYSTEM CAN BE PROVIDED TO MEET EXISTING OR PROPOSED SITE CONDITIONS BY LICENSED SPRINKLER CONTRACTORS. THE SPRINKLER CONTRACTOR SHALL BE REQUIRED TO MODIFY AND FULLY COORDINATE HIS SYSTEM AS NECESSARY WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS OF THIS PROJECT.
3. SPRINKLER SYSTEM DESIGN ALTERNATIVES AND/OR MAJOR PIPING LAYOUT MODIFICATIONS WILL BE ACCEPTED BY THE ENGINEER PROVIDED THAT THE SPRINKLER CONTRACTOR PROVIDES COMPLETE DESIGN DRAWINGS AND HYDRAULIC CALCULATIONS, STAMPED AND CERTIFIED BY A PROFESSIONAL ENGINEER OR REGISTERED FIRE PROTECTION SPECIALIST LICENSED IN THE STATE OF THE PROJECT. FURTHERMORE, NO INCREASE IN THE CONTRACTOR'S COMPENSATION WILL BE ALLOWED BASED ON THE ALTERNATIVE DESIGN.
4. MINOR PIPING CHANGES THAT ARE NECESSARY FOR COORDINATION AND/OR WHICH BENEFIT THE CONTRACTOR SHALL BE ALLOWED AS APPROVED BY ALL CODE OFFICIALS HAVING JURISDICTION AND ENGINEER OF RECORD. NOTE, MINIMUM ACCEPTABLE PRESSURE SAFETY FACTOR SHALL BE TEN PERCENT (10 %) AT CALCULATED FLOW.
5. ALL SPRINKLER SYSTEM WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH STATE AND LOCAL LAW AND BUILDING CODE ENFORCEMENT POLICIES.
6. SPRINKLER CONTRACTOR SHALL PROVIDE SUPPORT AND BRACING SHOP DRAWINGS FOR FINAL PIPING LAYOUT. ALL SEISMIC CALCULATIONS SHALL BE BASED ON Fp = 0.Wp, WHERE Fp IS THE HORIZONTAL FORCE FACTOR AND Wp IS THE WEIGHT OF THE WATER FILLED PIPE.
7. UNLESS INDICATED OTHERWISE, SPRINKLER HAZARD CATEGORY IS LIGHT DUTY.
8. SPRINKLER SYSTEM SHALL MONITORED PER NFPA 13 AND LOCAL REQUIREMENTS. SPRINKLER CONTRACTOR SHALL COORDINATE FINAL DESIGN WITH FIRE ALARM CONTRACTOR.
9. PROVIDE U.L. APPROVED PENETRATION ASSEMBLIES AT PIPING PASSING THRU SMOKE PARTITIONS, FIRE RATING WALLS AND FLOORS.

KEY NOTES

1. PROVIDE ANTI-FREEZE ADD STATION FOR CANOPY SPRINKLERS (SEE DETAIL 6/P3.1)
2. PROPOSED FIRE DEPARTMENT CONNECTION
3. SPRINKLER RISER; SEE SCHEMATIC DIAGRAM SHEET FP3.1
4. PROVIDE EXTENDED RANGE SIDE-WALL DRY NOZZLE
5. PROPOSED POST INDICATING VALVE
6. ORDINARY HAZARD GROUP I
7. ROUTE DOWN BELOW DUCT



1 / FP1.1 FLOOR PLAN -FIRE PROTECTION
SCALE:1/8"=1'-0"

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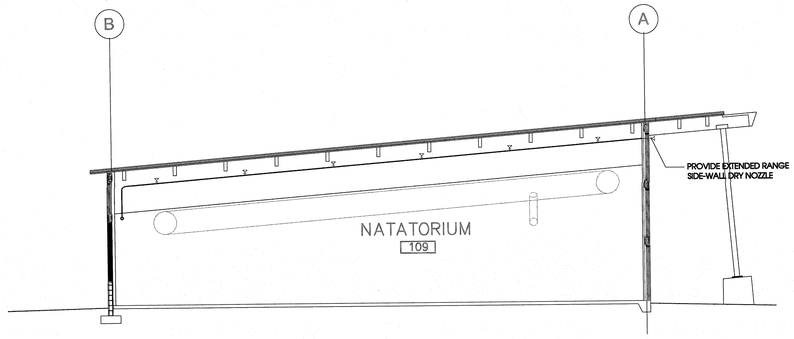
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FLOOPLAN FIRE PROTECTION

FP1.1

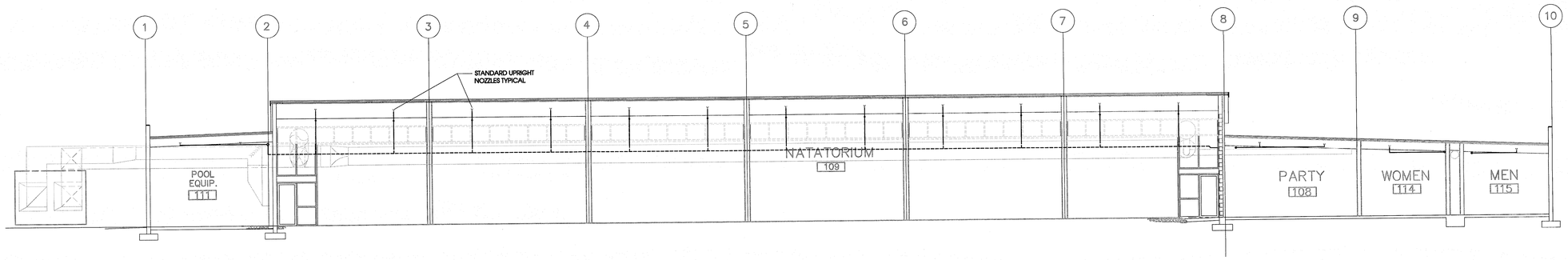


1 FP1.2 SECTION B-B
SCALE:1/8"=1'-0"

SYMBOL LEGEND

SYMBOL	MEANING
	WET SPRINKLER LINE
	DRY SPRINKLER LINE
	NEW CONSTRUCTION TO EXISTING INTERFACE
	STANDPIPE
	OUTSIDE STEM & YOKE GATE VALVE (OS&Y)
	CHECK VALVE OR BACKFLOW PREVENTER
	BALL VALVE
AI	SYSTEM NODE
SD	SPACE SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	SPRINKLER FLOW SWITCH OR INDICATING VALVE
A OR F	FIRE ALARM HORN & STROBE
M	FIRE ALARM PULL STATION
F/S	COMBINATION FIRE/SMOKE DAMPER ACTUATOR
HD	HEAT DETECTOR
S L	ELEVATOR LOBBY SMOKE DETECTOR
	POST INDICATING VALVE (PIV)
OR	FIRE DEPARTMENT CONNECTION (SIAMESE)
U.N.O.	UNLESS NOTED OTHERWISE
	SIDEWALL SPRINKLER
	EXTENDED RANGE NOZZLE
	STANDARD PENDENT OR UPRIGHT NOZZLE.

NOTE: ALL ITEMS SHOWN IN THIS SCHEDULE MAY NOT BE INCORPORATED ON THIS PROJECT



2 FP1.2 SECTION A-A
SCALE:1/8"=1'-0"

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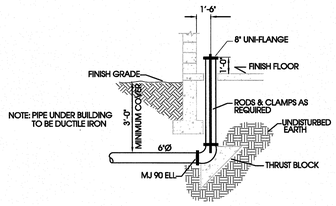
PROJECT NO. 163901 CFC

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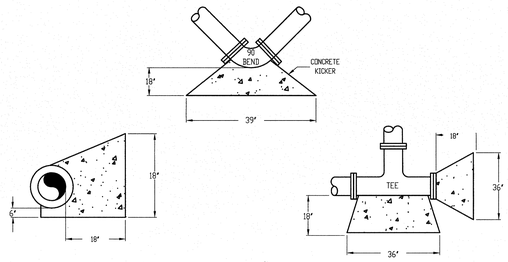
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SECTIONS FIRE PROTECTION

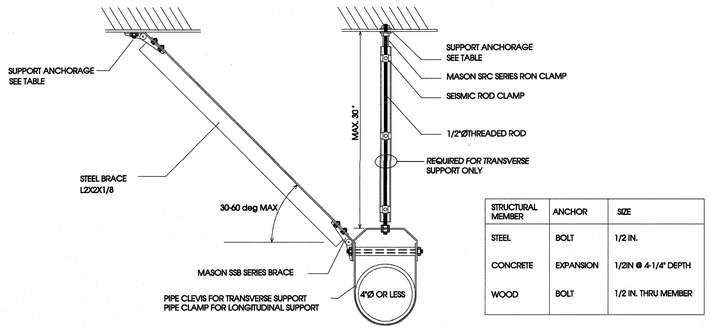
FP1.2



1 FP3.1 RISER RUN-IN DETAIL
N.T.S

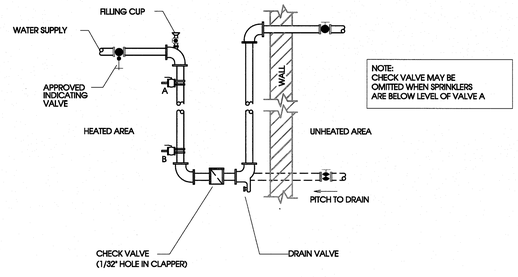


4 FP3.1 CONCRETE THRUST BLOCK DETAIL
SCALE:N.T.S.

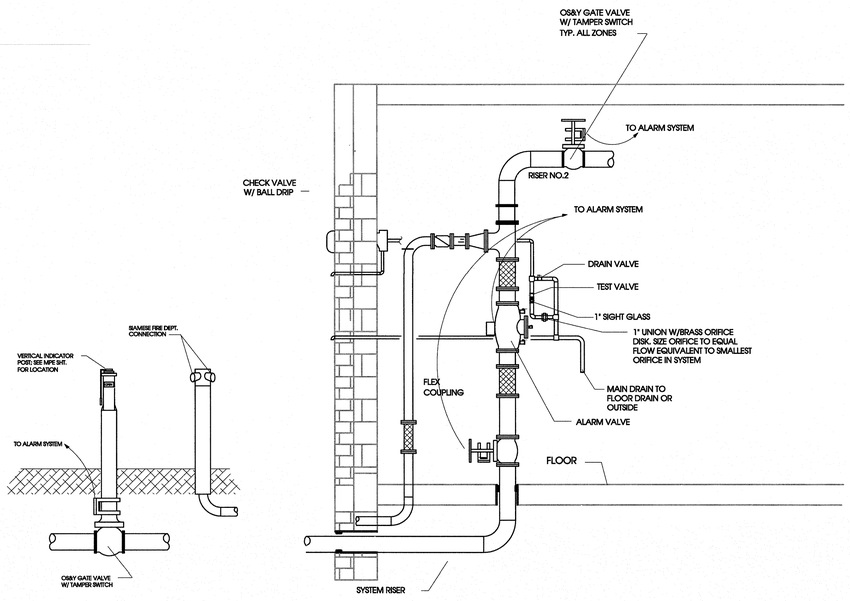


STRUCTURAL MEMBER	ANCHOR	SIZE
STEEL	BOLT	1/2 IN.
CONCRETE	EXPANSION	1/2IN @ 4-1/4" DEPTH
WOOD	BOLT	1/2 IN. THRU MEMBER

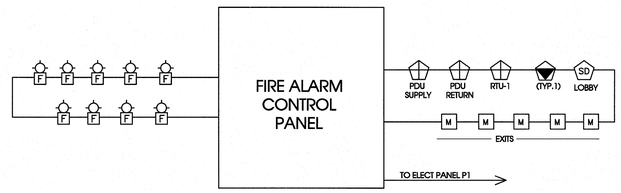
2 FP3.1 SEISMIC PIPE SUPPORT DETAIL
NO SCALE



6 FP3.1 ANTIFREEZE ADD STATION
SCALE:N.T.S.



3 FP3.1 SPRINKLER RISER DIAGRAM
NOT TO SCALE



5 FP3.1 FIRE ALARM SCHEMATIC
NOT TO SCALE

FIRE ALARM POINTS SCHEDULE

		ANNUNCIATION AT LOCAL PANELS				FIRE SUPPRESSION FUNCTION			TRANSMIT TO FIRE DEPARTMENT				AUX FUNCTION	EVAC SIGNAL	
SIGNAL	DESCRIPTION	AV ALARM BY ZONE	AV TROUBLE BY ZONE	AV TROUBLE COMMON	AV ALARM BY DEVICE	ELEVATOR SHUNT TRIP BRKR	SOLENOID WATER VALVE		COMMON TROUBLE	COMMON SUPERVISORY	COMMON FIRE ALARM BY ZONE	WET PIPE FLOW BY ZONE		ANSI OR FAN SHUTDOWN	AV SIGNAL	
FIRE ALARM	MAIN PULL STATIONS				X						X			X	X	
	SMOKE DETECTORS				X						X			X	X	
	IN-DUCT SMOKE DETECTOR				X									X	X	
	WET PIPE RISER FLOW	X										X		X	X	
SUPERVISORY	WET PIPE TAMPER SWITCHES		X							X						
	PIV		X							X						
TROUBLE	BATTERY VOLTAGE			X					X							
	CIRCUIT FAULTS			X					X							
	SUPERVISED CIRCUIT FAULT			X	X				X							
	AC POWER LOSS			X					X							
	GENSET BATTERY			X												

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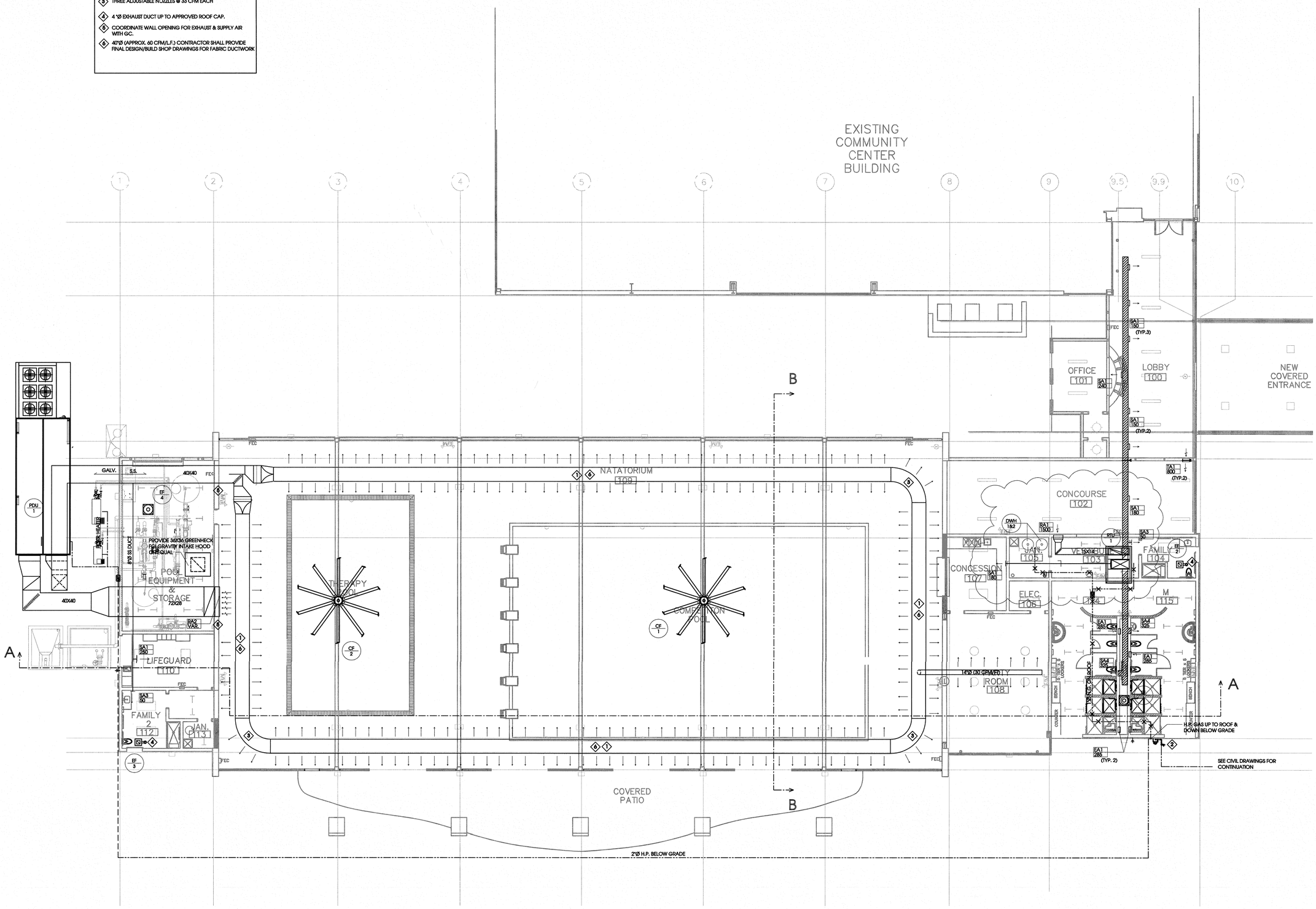
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FIRE PROTECTION DETAILS

FP3.1

KEY NOTES

1. TEXTILE FABRIC DUCT, LINEAR VENT POROUS WITH SINGLE ROW TRACK SUPPORT SYSTEM (COLOR BY ARCHITECT)
2. PROPOSED GAS METER LOCATION
3. THREE ADJUSTABLE NOZZLES @ 33 CFM EACH
4. 4 "Ø EXHAUST DUCT UP TO APPROVED ROOF CAP.
5. COORDINATE WALL OPENING FOR EXHAUST & SUPPLY AIR WITH GC.
6. 40"Ø (APPROX. 60 CFM/L.F.) CONTRACTOR SHALL PROVIDE FINAL DESIGN/BUILD SHOP DRAWINGS FOR FABRIC DUCTWORK



1 M1.1 FLOOR PLAN - HVAC
SCALE:1/8"=1'-0"

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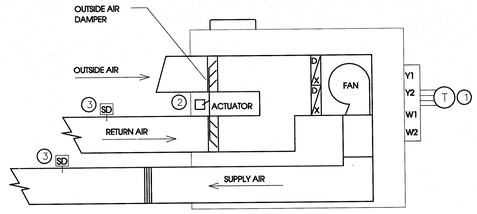
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FLOOR PLAN HVAC

M1.1

SEQUENCE OF OPERATION

1. A 7-DAY PROGRAMABLE HEATING/COOLING AUTOMATIC CHANGEOVER THERMOSTAT SHALL CONTROL THE PACKAGE UNIT.
2. WHEN THE UNIT IS ENERGIZED, THE OUTSIDE AIR DAMPER SHALL OPEN TO THE MINIMUM POSITION. WHEN THE UNIT IS DE ENERGIZED THE OUTSIDE AIR DAMPER SHALL SHUT.
3. AC SHALL BE PROVIDED WITH AN IONIZING TYPE SMOKE DETECTOR (DUCT MOUNTED) TO SHUTDOWN THE AC THRU THE MOTOR STARTER UPON SENSING SMOKE.



3 / M1.2 RTU CONTROL SCHEMATIC
SCALE:1/8"=1'-0"

HVAC NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE MECHANICAL, GAS, PLUMBING & ELECTRICAL CODES FOR THE AUTHORITIES HAVING JURISDICTION. FURTHERMORE, ALL WORK SHALL BE PERFORMED BY EXPERIENCED MECHANICS IN A PROFESSIONAL MANNER SO AS TO PROVIDE SYSTEMS COMPLETE AND READY TO OPERATE.
2. ENGINEERING DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE. WHILE THE ENGINEER HAS MADE A CONCERTED EFFORT TO ARRANGE AND LAYOUT EQUIPMENT, PIPING AND DUCTWORK IN A NON-CONFLICTIVE MANNER, THE FINAL RESPONSIBILITY OF COORDINATION OF VARIOUS TRADES AND THEIR WORK SHALL BE THE CONTRACTORS.
3. CONTRACTOR SHALL NOT FABRICATE ANY DUCTWORK OR PIPING NOR INSTALL ANY EQUIPMENT PRIOR TO VERIFICATION OF CLEARANCES, REVIEWING ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS. FUTHERMORE, CONTRACTOR SHALL INSPECT EXISTING CONDITIONS TO VERIFY THAT NO FIELD CHANGES HAVE OCCURRED WHICH MIGHT AFFECT THE PROPER COMPLETION OF HIS WORK. EXTRAS FOR RE-FABRICATION OR RE-FIT OF DUCTWORK NOT FITTING AVAILABLE SPACE WILL NOT BE ALLOWED.
4. ALL DUCTWORK AND PIPING SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS. DO NOT SUPPORT WORK FROM DECKING OR OTHER DUCTWORK, PIPING AND EQUIPMENT.
5. DUCT DIMENSION LISTED ON DRAWINGS ARE INSIDE DIMENSIONS; DUCTWORK MAY OR MAY NOT BE DRAWN AT ACTUAL OUTSIDE DIMENSIONS. WHERE DIMENSION ARE NOT LISTED SIZE AS FOLLOWS:

   TRUNK RUNS: 1200 FPM OR LESS
   BRANCH RUNS: 750 FPM OR LESS.
   RUNOUTS: 450 FPM OR LESS.
6. DUCT SHALL BE FABRICATED OF ASTM A525 OR A527 GALVANIZED STEEL SHEET IN ACCORDANCE WITH SMACNA LOW OR MEDIUM DUCT CONSTRUCTION STANDARDS.
7. ALL MECHANICAL EQUIPMENT, DUCTWORK AND PIPING SHALL BE SECURED IN PLACE WITH SNUBBERS, ISOLATORS OR RIGID CONNECTIONS TO MEET OR EXCEED CATEGORY III SEISMIC ACTIVITY. ALL SAID CONNECTIONS SHALL BE DESIGNED BY A REGISTERED ENGINEER REGULARLY EMPLOYED IN THE SEISMIC INDUSTRY. SEISMIC DEVICES SHALL BE MASON INDUSTRIES, INC. OR PEABODY. SEE SECTION 15240 FOR FURTHER REQUIREMENTS.
8. AIR AND WATER BALANCING SHALL BE PERFORMED UNDER THE SUPERVISION OF A NEBB OR ABBC SUPERVISOR OR BY A REGISTER PROFESSIONAL ENGINER. SEE SECTION 15990 FOR FURTHER REQUIREMENTS.
9. MECHANICAL AND ELECTRICAL COMPONENTS SUSPENDED MORE THAN 12 INCHES FROM THE BUILDING STRUCTURE SHALL BE LATERALLY & TRANSVERSELY SUPPORTED BY RIGID CONNECTION SIZED TO HANDLE THE FOLLOWING LOADS DUE TO SEISMIC ACCELERATION:

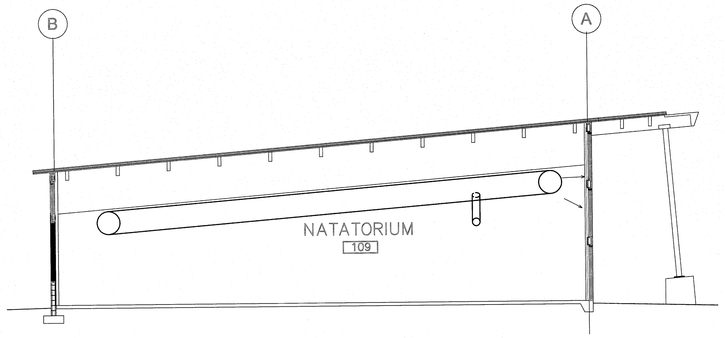
   GAS PIPING: F_p=0.9 W_c
   ALL OTHER COMPONENTS: F_p=0.302 W_c

   PIPING OTHER THAN NATURAL GAS PIPING LESS THAN 2-1/2" INSIDE DIAMETER SHALL NOT REQUIRE SEISMIC SUPPORT
10. WHERE ALLOWED BY LOCAL CODES POLYETHYLENE PIPE MAY BE USED FOR UNDERGROUND PIPING.

SYMBOL LEGEND

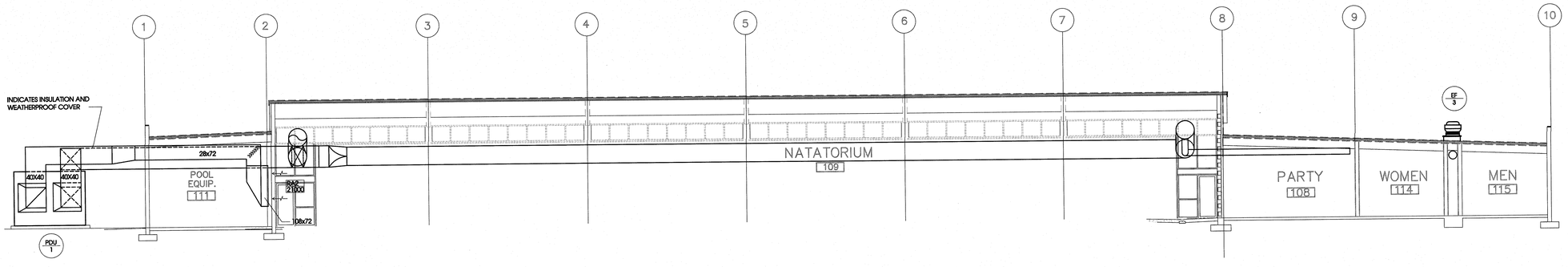
SYMBOL	DESCRIPTION
MBD	MANUAL BALANCING DAMPER
M	MOTORIZED DAMPER
T	SPACE TEMPERATURE SENSOR
	FILTERS
SD	SMOKE DETECTOR
	BEGINNING OF NEW CONSTRUCTION
	SUPPLY AIR
	RETURN /EXHAUST AIR
M	ACTUATOR
	DUCT ELBOW W/ TURNING VANES
F.D.	FIRE DAMPER
AV	AIR VALVE
UH	HORIZONTAL UNIT HEATER
SP	STATIC PRESSURE SENSOR
A/T M2/M3	SECTION SYMBOL/DETAIL NO; A-SECTION/1-DETAIL DESIGNATION; M2-SECTION/D/ REFERENCED DRAWING; M3-LOCATION OF SECTION/DETAIL
O.P.	OPEN TO PLENUM
RA 8 16S	DIFFUSER TYPE MARK (TOP LEFT), COLLAR SIZE (TOP RIGHT) BOTTOM IS CFM.
	RECTANGULAR DUCT W/ LINER
	DOUBLE WALL SPIRAL ROUND DUCT
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	BALL VALVE
	BUTTERFLY VALVE
	BALANCING VALVE
	CHECK VALVE
	GATE VALVE
	PRESSURE GATE
	PRESSURE GAUGE
	THERMOMETER
F	FLOW METER
	SHELL HEAT EXCHANGERS
	STRAINER
	STRAINER W/ BLOW-OFF
	DRIER/FILTER
	FLEX CONNECTIONS
AS	AIR SEPARATOR
	AIR VENT
	UNION
	CAP
	CONCENTRIC REDUCER
	CONCENTRIC INCREASER
NG	NATURAL GAS LINE
CD	CONDENSATE DRAIN
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT



1 / M1.2 SECTION B-B
SCALE:1/8"=1'-0"

NORTH



2 / M1.2 SECTION A-A
SCALE:1/8"=1'-0"

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LARRY S. BRYANT HEALTH AND WELLNESS CENTER EXPANSION/AQUATIC CENTER

FORREST CITY, AR

ISSUE / DATE	
7.29.2016	CONSTRUCTION DOCS
4.3.2017	M&E REVISIONS
DATE	DESCRIPTION

PROJECT NO. 163901 CFC

PROJECT PHASE: Construction Documents

DRAWN BY: JWW | CHECKED BY: JWW

HVAC SECTIONS

M1.2

PACKAGED DEHUMIDIFICATION & POOL HEATING UNIT SCHEDULE

MARK	FANS				MOISTURE REMOVAL	EVAPORATOR SECTION					HEATER SECTION			FILTERS	CONDENSER FAN		POOL FLOW	HEAT REJECT	ELECTRICAL			REMARKS
	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	EXHAUST (CFM)	EXT S.P.	PPH	CAPACITY (MBH)		EAT (DEG F)		LAT (F)	FUEL	CAPACITY (MBH)	NO. STAGES	TYPE	EAT (F)	QTY	GPM	MBH	V/PH/HZ	MCA	MOCP	
						TOTAL	SENS	EDB	EWB	DB												
PDU	23000	6880	7880	1.5	534	960.0	324.0	90.2	74.6	70.0	NG	505.0	VAR.	MANUF. STD.	105	6	165	564	480/3/60	220.0	250	MUNTERS PV-W20-WMO OR EQUAL

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	FAN				EVAPORATOR SECTION					HEATER SECTION			FILTERS		CONDENSER FAN				COMPRESSOR					REMARKS
	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	MIN. BHP	EXT S.P.	CAPACITY (MBH)		EAT (DEG F)		LAT (F)	FUEL	CAPACITY (MBH)	NO. STAGES	TYPE	PD ("WC)	EAT (F)	QTY	FLA	V/PH/HZ	QTY	AMPS	V/PH/HZ	MCA	MOCP	
					TOTAL	SENS	EDB	EWB	DB															
RTU-1	2000	500	1.0	0.7	60.0	45.0	82.8	68.3	61.9	NG	120.0	1	DISPOSABLE	0.3	105	1	2.4	120/1/60	1	17.0	208/3/60	23.7	30	

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	SIZE (W X H)	TYPE	MANUFACTURER MODEL	REMARKS/ACCESSORIES
SA1	14X10	SAR	TITUS 300FS SERIES	3,4
SA2	16x10	SAR	TITUS 300FS SERIES	3,4
SA3	6X4	SAR	TITUS 300FS SERIES	3,4
SA4	14X10	SAR	TITUS 300FS SERIES	3,4
RA1	24X24	RAG	TITUS 350FF SERIES	FILTERED
RA2	(6) 36X36	RAG	TITUS 350RL SERIES	STACK 3W X 2H
EA1	12X10	RAG	TITUS 350RL SERIES	
TA1	24X14	RAG	TITUS 350RL SERIES	

LEGEND: PFD - PERFORATED FACE DIFF; DLR - DRUM LOUVER; LFD - LOUVERED FACE DIFF.; TAG - TRANSFER AIR GRILLE; LSD - LINEAR SLOT DIFF.; RCR - REMOVABLE CORE REG.; RAG - RETURN AIR GRILLE; SAR - SUPPLY AIR REGISTER; MC - MODULAR CORE

ACCESSORI 1 - 2-WAY THROW; 2 - 3 WAY THROW; 3 - 4-WAY THROW; 4 - OPPOSED BLADE DAMPER; 5 - FIRE DAMPER

COLLAR SIZE SCHEDULE

MAX FLOW (CFM)	ROUND ("DIA)	SQUARE	
100	6	5	5
170	8	7	7
220	9	8	8
270	10	9	9
390	12	11	11
530	14	12	12
700	16	14	14
880	18	16	16
1090	20	18	18

FAN SCHEDULE

MARK	SERVICE	CFM	STATIC ("WC)	RPM	ELECTRICAL DATA	MANUFACTURER MODEL	REMARKS
EF-1	SHOWERS	1,140	0.30	1139	1/4HP @ 120V/1PH/60HZ	GREENHECK CUBE-121-4	1,3,4
EF-2&3	TOILET	90	0.15	935	6W @ 120V/1PH/60HZ	GREENHECK SP-1-00 VG	1,2
EF-4	POOL EQP. ROOM	6,000	0.25	840	2 HP @208V 3PH/60HZ	GREENHECK CUBE-220-15	1,3
CF-1&2	NATATORIUM	NA	NA	196	3/4 HP @ 208V 1PH/60HZ	BIG ASS FAN POWERFOIL X3.0	COLOR BY ARCH.

NOTES:
1. COORDINATE LOCATION WITH ELECTRICAL CONTRACTORS AND GC BEFORE BIDDING & COMMENCEMENT OF ANY WORK.
2. WIRE FAN THRU LIGHT CIRCUIT
3. PROVIDE CURB, SERVIVE SWITCH & BIRDSCREEN
4. INTERLOCK WITH POOL DEHUMIDIFICATION UNIT.

GAS SUMMARY

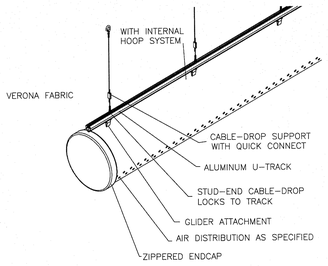
MARK	EQUIPMENT	USAGE	
		MBH	CFH
RTU-1	HVAC	160	155
PDU-1	POOL DEHUMIDIFICATION	700	677
DWH-1&2	WATER HEATER	150	145
PH-1	COMP. POOL HTR	750	725
PH-2	THERAPY POOL HEATER	500	483.6
	TOTAL	2260	2,186

PROVIDE DIRT LEG TYP. ALL GAS APPLIANCES

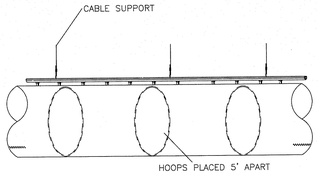
GAS REGULATOR SCHEDULE

MARK	FLOW (CCF)	PRESSURE IN (PSIG)	PRESSURE OUT("WC)	EQUIPMENT
GR-1	1886	5.0 *	11.0	PH-1,PH-2 & PDU-1
GR-2	445	5.0 *	11.0	RTU-1,DWH-1&2

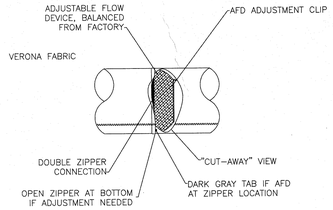
* VERIFY WITH GAS COMPANY



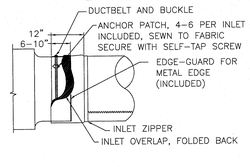
5 M3.1 DUCT SUSPENSION DETAIL
NO SCALE



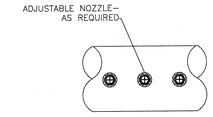
6 M3.1 INTERIOR HOOPS DETAIL
NO SCALE



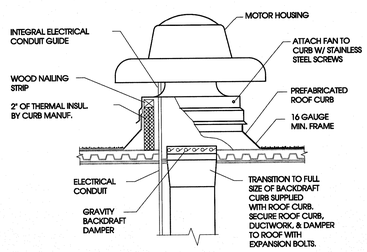
7 M3.1 ADJUSTABLE FLOW DEVICE
NO SCALE



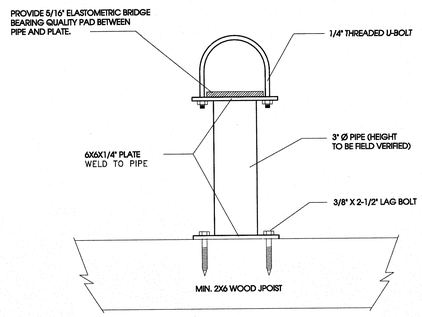
8 M3.1 DUCT INLET DETAIL
NO SCALE



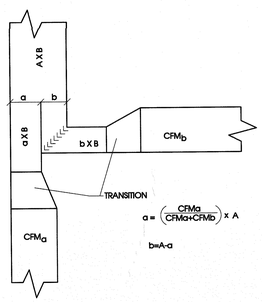
9 M3.1 ADJUSTABLE NOZZLE DETAIL
NO SCALE



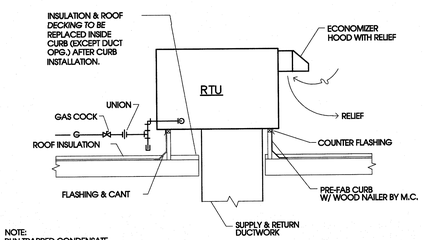
1 M3.1 EXHAUST FAN CURB DETAIL
NO SCALE



2 M3.1 SEISMIC GAS PIPE SUPPORT DETAIL
NO SCALE



3 M3.1 DUCT SPLIT DETAIL
NO SCALE



4 M3.1 ROOFTOP UNIT DETAIL
NO SCALE

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SCHEDULES & DETAILS

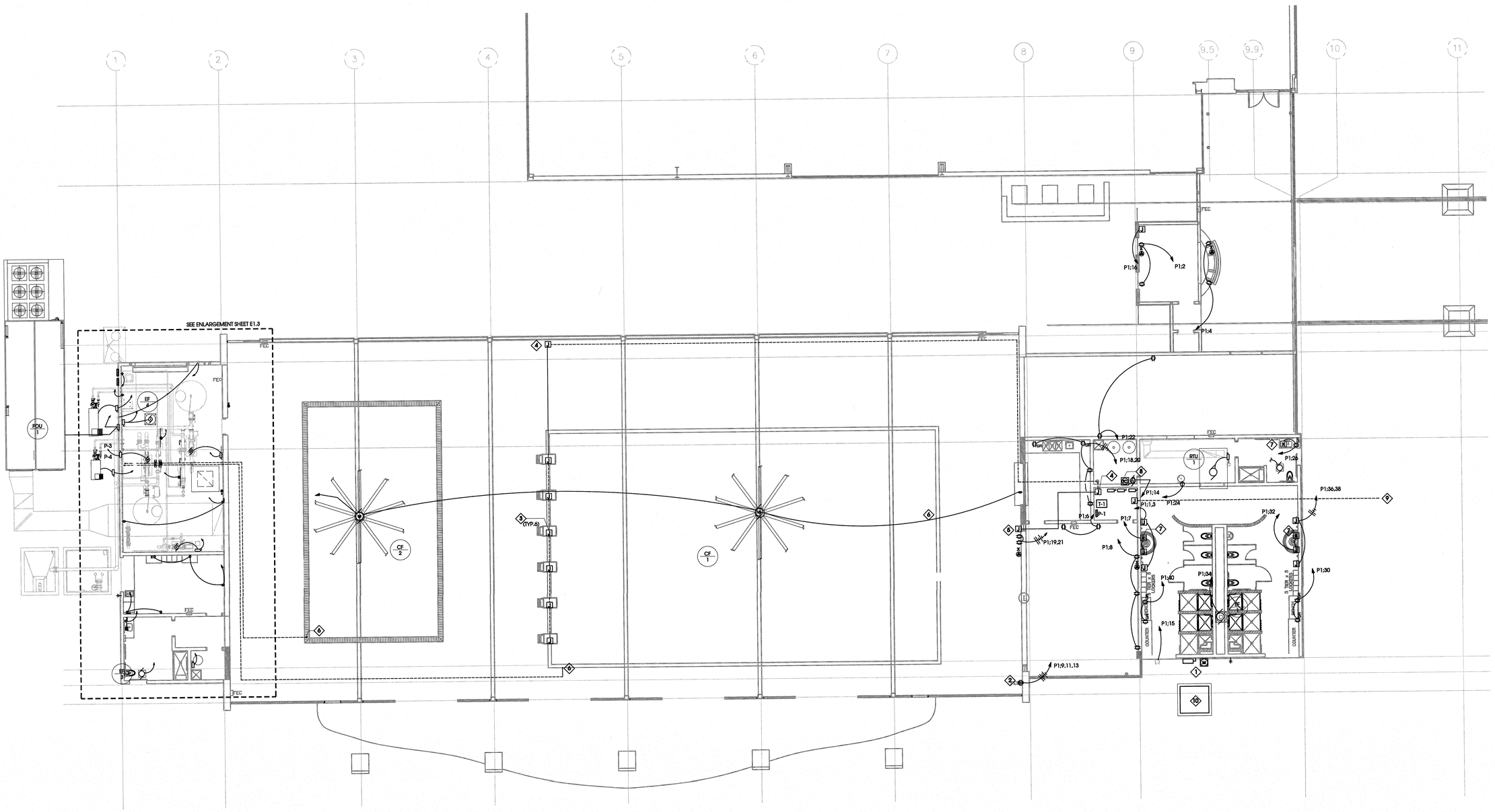
M3.2

ELECTRICAL NOTES

1. ALL WIRING FOR LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL CONNECTIONS SHALL BE ROUTED AND CONCEALED IN NEW OR EXISTING FINISHES.
2. CIRCUITS SHALL INCLUDE INDIVIDUAL EQUIPMENT GROUNDING CONDUCTORS IN BRANCH AND HOMERUN CONDUITS AND SHALL BE ELECTRICALLY CONTINUOUS FROM FIXTURE TO PANEL.
3. VOLTAGE DROP: HOMERUNS IN EXCESS OF 75 FEET (VERTICAL PLUS HORIZONTAL LENGTH) SHALL BE INCREASED A MINIMUM OF ONE SIZE.
4. CIRCUIT WIRING SHALL BE CU, 600V INSULATED THHN OR THHW UNLESS NOTED OTHERWISE.
5. WALL SWITCHES SHALL BE COMMERCIAL GRADE HUBBELL, BRYANT, ARROW-HART OR APPROVED EQUAL.
6. RECEPTACLES SHALL BE SPECIFICATION GRADE BY HUBBELL, BRYANT, ARROW-HART, LEVITRON OR APPROVED EQUAL; TYPE 5-20 UNLESS OTHERWISE NOTED.
7. VERIFY ACTUAL EQUIPMENT LOADS WITH HVAC CONTRACTOR.
8. MOUNT CONVENIENCE RECEPTACLES AT 16" A.F.F. OR 8" ABOVE CABINETS UNLESS OTHERWISE NOTED.
9. ELECTRICAL CONTRACTOR MAY COMBINE BRANCH CIRCUITS PROVIDED NO MORE THAN THREE HOMERUNS CONSISTING OF ONE OF EACH PHASE ARE ROUTED IN A CONDUIT.
10. OFFSET RECEPTACLES ON OPPOSITE SIDES OF WALLS BY A MINIMUM OF 18" OC.
11. COORDINATE FLOOR BOXES W/ ARCHITECT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ARRANGING CIRCUITS AS NECESSARY TO ACHIEVE FINAL PHASE BALANCING WITHIN 10%.
13. WIRE EMERGENCY AND EXIT LIGHTS TO LIGHTING CIRCUIT INDICATED; WIRE AHEAD OF SWITCHING.
14. CONTRACTOR SHALL VERIFY ALL EQUIPMENT RECEPTACLE TYPE WITH OWNER.
15. ALL FIRE ALARM WORK SHALL BE PERFORMED BY A LICENSED FIRE ALARM CONTRACTOR.
16. EC SHALL PROVIDE BOX & 1/2" CONDUIT FOR ALL PHONE AND COMPUTER OUTLETS SHOWN.

KEY NOTES

1. PROPOSED SERVICE ENTRANCE WITH METER & MAIN 3R DISCONNECT
2. PROVIDE A NEMA 14-60 OUTLET FOR TEMPORARY PULL-IN DISTRIBUTION PANEL WITH GFI BREAKERS FOR SPECIAL EVENTS.
3. PROVIDE 4X4X6 PVC FLUSH MOUNTED DECK J-BOX AND ROUTE 2"Ø PVC CONDUIT (W/ PULL WIRE) AS SHOWN FOR TIMING EQUIPMENT. COORDINATE WITH POOL SUPPLIER.
4. PROVIDE 12X12X6 FLUSH MOUNTED PULL BOX FOR TIMING EQUIPMENT ROUTE 2"Ø PVC CONDUIT (W/ PULL WIRE) BETWEEN BOXES AS SHOWN. COORDINATE EXACT LOCATIONS WITH EQUIPMENT SUPPLIER.
5. PROVIDE RECEPTACLES AND J-BOX (VERIFY SIZE) FOR SCOREBOARD. ROUTE 1"Ø CONDUIT (W/ PULL WIRE) J-BOX AND BOX IN STORE ROOM AS SHOWN.
6. PROVIDE 3/4"Ø PVC CONDUIT (W/ PULL WIRE) FROM WATER LEVEL SENSOR TO LEVEL CONTROL PANEL. COORDINATE EXACT LOCATION WITH POOL EQUIPEMENT INSTALLER.
7. PROVIDE 120 / 12 V TRANSFORMER FOR IR FAUCET.
8. PROVIDE LINE VOLTAGE 7-DAY TIMECLOCK FOR CONTROL OF DWH RECIRC PUMP; COORDINATE WITH PLUMBER.
9. PROVIDE 3"Ø PVC CONDUIT FOR PHONE AND DATA; COORDINATE WITH OWNER, PHONE COMPANY AND ISP
10. PROPOSED LOCATION OF SERVICE TRANSFORMER



1 E1.1 FLOOR PLAN - POWER
SCALE:1/8"=1'-0"

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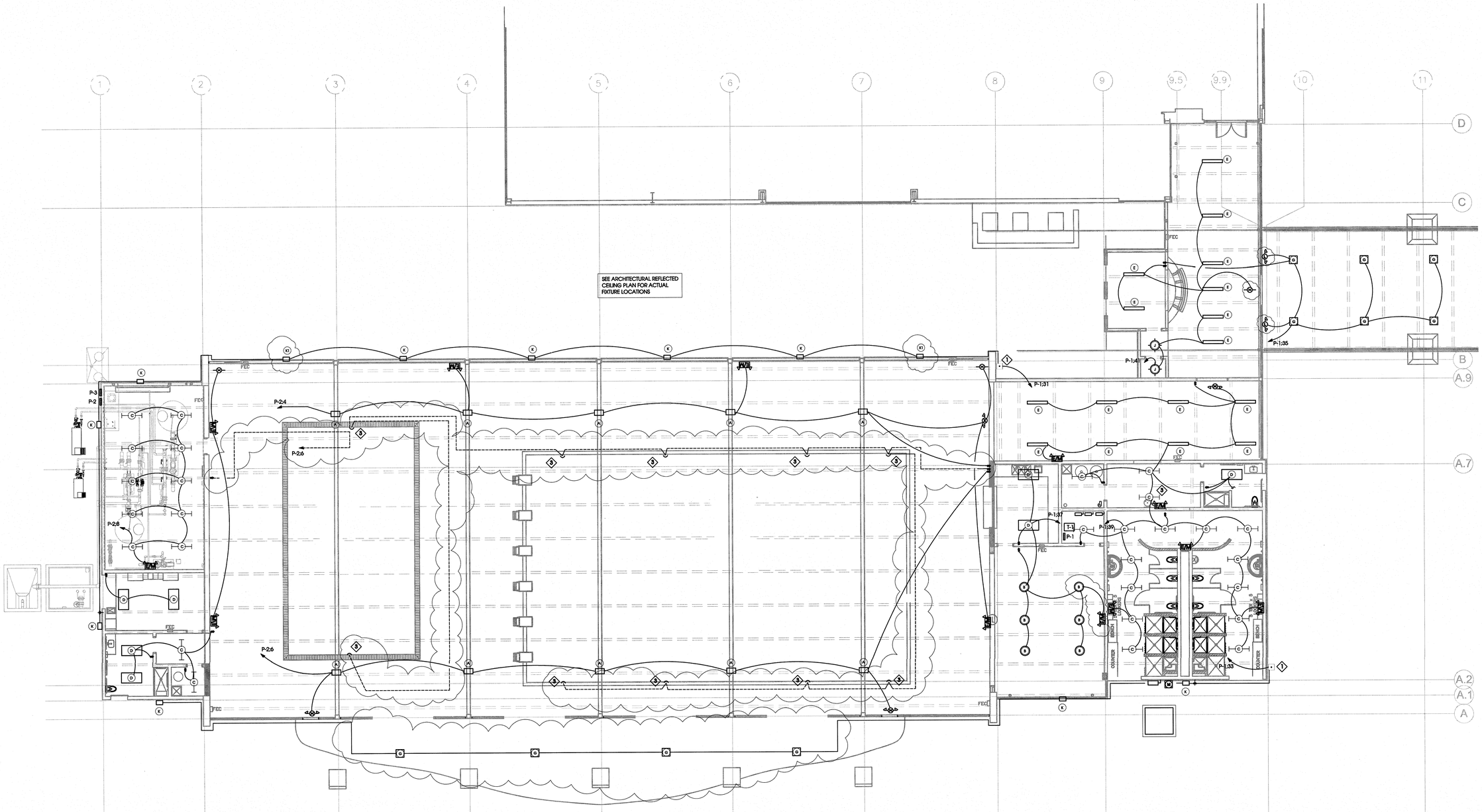
FLOOR PLAN POWER

E1.1

KEY NOTES

1. PROVIDE PHOTO SWITCH
2. WIRE TOILET EXHAUST FAN THRU LIGHT SWITCH
3. PROVIDE J-BOX FOR POOL COMPANY SUPPLIED IN-POOL LIGHTS; EC SHALL PROVIDE CONDUIT, CIRCUITING AND SWITCHING AS SHOWN.

SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR ACTUAL FIXTURE LOCATIONS



1 E1.2 FLOOR PLAN - LIGHTING
SCALE:1/8"=1'-0"

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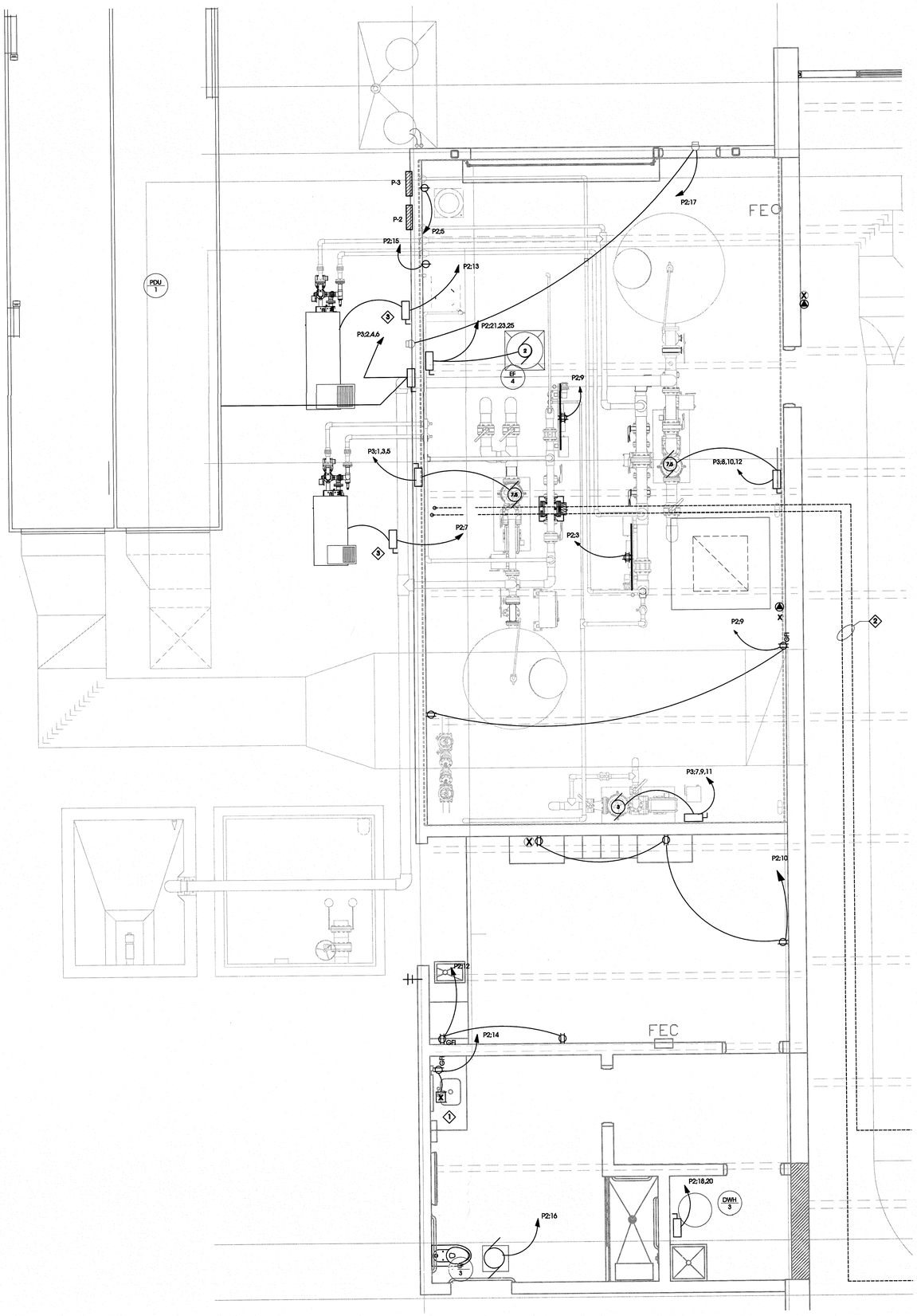
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FLOOR PLAN LIGHTING

E1.2



KEY NOTES

1. PROVIDE 120/12 V XFRMR FOR IR FAUCET
2. PROVIDE 3/4"Ø PVC CONDUIT (W/ PULL WIRE) FROM WATER LEVEL SENSOR TO LEVEL CONTROL PANEL. COORDINATE EXACT LOCATION WITH POOL EQUIPEMENT INSTALLER.
3. 30A FD, FUSED AT 15A

1 E1.3 POOL EQUIPMENT ROOM- POWER

SCALE:3/8"=1'-0"

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EQUIPMENT ROOM ENLARGEMENT

E1.3

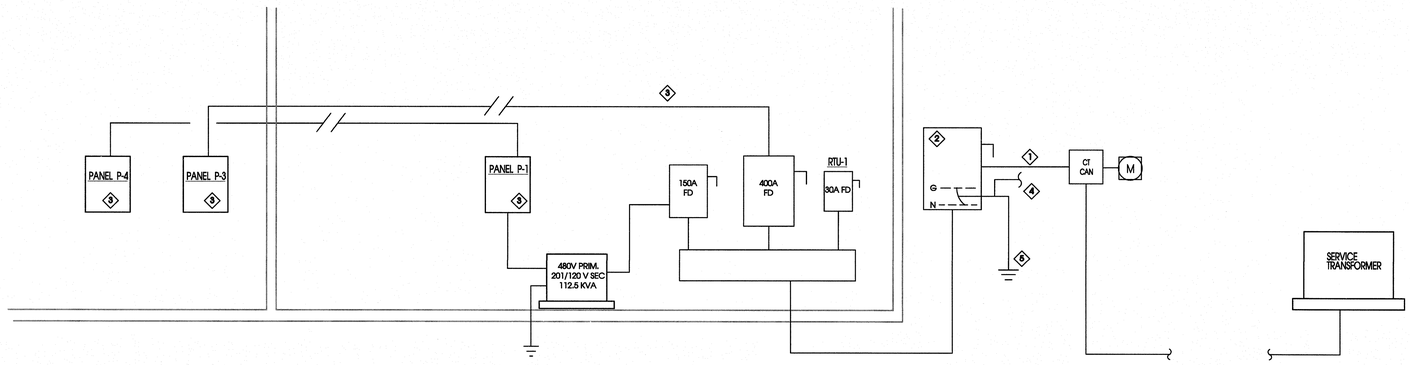
SYMBOL LEGEND

- SAFETY SWITCH
- MS — COMBINATION MOTOR STARTER
- J or JB — JUNCTION BOX
- DR — DUPLEX RECEPTACLE
- SR — SINGLE RECEPTACLE
- LP-1;2 — HOMERUN: NUMBERS DENOTE PANEL AND CIRCUITS
- INDICATES EMERGENCY LIGHTING CKT.
- FD — FUSED DISCONNECT
- EXIT LIGHT
- A — INCANDESCENT OR PL CAN FIXTURE
- FLUORESCENT FIXTURE/MARK
- 120 V. RECEPTACLE (DUPLEX UNLESS INDICATED OTHERWISE)
- FLOOR RECEPTACLE (DUPLEX UNLESS INDICATED OTHERWISE)
- 208 V. RECEPTACLE
- IG — ISOLATED GROUND CIRCUIT
- S — SPDT SWITCH WALL MOUNTED @ 48 " AFF
- $_3$ — 3-WAY SWITCH WALL MOUNTED @ 48" AFF
- $_K$ — KEYED SWITCH WALL MOUNTED @ 48" AFF
- $_{3K}$ — KEYED 3-WAY SWITCH WALL MOUNTED @ 48" AFF
- PHONE OR PHONE/DICTAPHONE JACK
- WEATHERPROOF RECEPTACLE
- COMMUNICATION CONDUIT
- 60A 3P — CIRCUIT BREAKER (RATING/POLES)
- SD — SPACE SMOKE DETECTOR
- DUCT MOUNTED SMOKE DETECTOR
- SPRINKLER FLOW SWITCH
- A — FIRE ALARM HORN & STROBE
- MS — FIRE ALARM PULL STATION
- F/S — COMBINATION FIRE/SMOKE DAMPER ACTUATOR
- COMPUTER TERMINAL OUTLET
- E/M — EMERGENCY LIGHT
- T — TIME CLOCK

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT

KEY NOTES

1. 2 RUNS (4) #6/0 3"C
2. NEMA 3R 400A FUSED DISCONNECT; FUSE AT 400A
3. SEE PANELBOARD SCHEDULE
4. BOND TO STRUCTURAL STEEL IN BUILDING; SIZE PER NEC TABLE 250-66
5. GROUNDING ROD TO BE 5/8" DIAMETER, 10 FT LONG, GALVANIZED FERROUS STEEL ROD: ROD TO HAVE AT LEAST 8 FT CONTACT WITH EARTH. THE MADE ELECTRODE SHALL HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS. IF IT DOES NOT MEET THIS CRITERION THEN ADD ADDITIONAL ELECTRODES INSTALLED NO CLOSER THAN 6 FT.
6. 60A DISCONNECT



1 / E3.1 ELECTRICAL RISER
N.T.S.

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	LAMP	MOUNTING	REMARKS
A	METEOR WHIZ SERIES WS-240	22900 LEM 6000K	PENDANT	60X60 BEAM SPREAD
B	SPI EIP10958 4F36/EM	(4) 36W T-5	CABLE	
C	BASIK EIP11853	28.7W LED 3500K	CEILING	SURFACE
D	WILLIAMS 12-4-228T5S	(2) 28W T-5	CEILING	SURFACE
E	BASIK EIP11853	28.7W LED 3500K	CEILING	CABLE
F	NOT USED			
G	CREE CPY250DM	43W LED	SURFACE	COLOR BY ARCHITECT
H	NOT USED			
J	OPEN	28W CF	CEILING	6 IN. CYLINDER CAN
K	TRACE LITE TLED-NFL TYPE II	76.7W LED	WALL	UL WET
K1	TRACE LITE TLED-NFL TYPE II	76.7W LED	WALL	UL WET, BATTERY BACKUP
L	LITHONIA EU2 LED HO M6	(2) 2.1W	WALL	UL WET, BATTERY BACKUP
X	EXITRONIC 600 SERIES	L.E.D	WALL OR CEILING	BATTERY BACKUP
E/M	DUAL-LITE EZ-2	(2) 7.5 W INC.	WALL OR CEILING	BATTERY BACKUP

PANEL SCHEDULE

LOAD SERVED	VA PER PHASE A	B	C	WIRE SIZE	BRKR SIZE	NO. POLES	CKT NO.	CKT NO.	NO. POLES	BRKR SIZE	WIRE SIZE	VA PER PHASE A	B	C	LOAD SERVED
WOMEN'S HAND DRYER	1800			#12	20	1	1	2	1	20	#12	360			OFFICE RECEPT
WOMEN'S HAND DRYER		1800		#12	20	1	3	4	1	20	#12		360		RECEPTION DESK RECEPT
SPARE			1920	#12	20	1	5	6	1	20	#12			1200	PARTY AREA RECEPT *
WOMEN'S WASH FOUNTAIN XFMR	480			#12	20	1	7	8	1	20	#12	1800			PARTY AREA RECEPT *
RECEPT FOR TEMP PANEL		5760		#8	50	1	9	10	1	20	#12		900		OFFICE RECEPT
RECEPT FOR TEMP PANEL			5760	#8	50	1	11	12	1	20	#12			600	SERVICE RECEPT
RECEPT FOR TEMP PANEL	5760			#8	50	1	13	14	1	20	#12	600			DHW RECIRC PUMP
OUTSIDE RECEPT *		1440		#12	20	1	15	16	1	20	#12		1920		FIRE ALARM PANEL
SERVICE RECEPT *			1440	#12	20	1	17	18	1	20	#12			540	CONCESSIONS RECEPT
SCORE BOARD	840			#12	20	1	19	20	1	20	#12	360			CONCESSIONS RECEPT
SCORE BOARD		840		#12	20	1	21	22	1	20	#12		360		CONCOURSE RECEPT
PANEL P-2			11731	#3	100	3	23	24	1	20	#12			720	EDF
PANEL P-2	10095			#3	100	3	25	26	1	20	#12	600			FAMILY 1 RR GFI
PANEL P-2		11016		#3	100	3	27	28	1	20	#12		1920		SPARE
SPARE			1920	#12	20	1	29	30	1	20	#12			1440	MENS LOCKER GFI
OUTSIDE LIGHTS	693			#12	20	1	31	32	1	20	#12	480			MENS WASH FOUNTAIN XFMR
OUTSIDE LIGHTS		616		#12	20	1	33	34	1	20	#12		864		EF-1
CANOPY LIGHTS			258	#12	20	1	35	36	1	20	#12			1800	MENS HAND DRYER
PARTY AREA LIGHTS	544			#12	20	1	37	38	1	20	#12	1800			MENS HAND DRYER
LOCKER LIGHTS		1008		#12	20	1	39	40	1	20	#12		1440		WOMENS LOCKER GFI
LOBBY LIGHTS			464	#12	20	1	41	42	1	20	#12			1920	SPARE
SUB TOTAL	20212	22480	23493									6000	7764	8220	SUBTOTAL
TOTAL	26212	30244	31713												

ELECT HTG		KVA	
A/C LOADS	0.9	KVA	
MOTOR LOADS	7.8	KVA	
RECEPTACLE LOADS	25.8	KVA	
LIGHTING LOADS	1.6	KVA	
WATER HEATING		KVA	
TOTAL	36.0	KVA	

RATING: 208 VOLTS 400 AMPS 3 PHASE 22 KAIC
MAIN CKT BREAKER: 400 AMPS
NEMA RATING: 1
FEEDERS: 2RUN(S) NEU: 3/0 LOAD: 3/0 GRD: 3 COND: 2 IN.
MOUNTING: SURFACE

P-1

* PROVIDE GFI BREAKER

PANEL SCHEDULE

LOAD SERVED	VA PER PHASE A	B	C	WIRE SIZE	BRKR SIZE	NO. POLES	CKT NO.	CKT NO.	NO. POLES	BRKR SIZE	WIRE SIZE	VA PER PHASE A	B	C	LOAD SERVED
THERAPY POOL PUMP	3049			#12	20	3	1	2	3	250	4/0	60973			POOL DEHUMID. UNIT
THERAPY POOL PUMP		3049		#12	20	3	3	4	3	250	4/0		60973		POOL DEHUMID. UNIT
THERAPY POOL PUMP			3049	#12	20	3	5	6	3	250	4/0			60973	POOL DEHUMID. UNIT
JET SEAT PUMP	1053			#12	20	3	7	8	3	20	#12	3049			COMPETITION POOL PUMP
JET SEAT PUMP		1053		#12	20	3	9	10	3	20	#12		3049		COMPETITION POOL PUMP
JET SEAT PUMP			1053	#12	20	3	11	12	3	20	#12			3049	COMPETITION POOL PUMP
COMP. POOL UV (FUTURE)	1330			#12	20	3	13	14	3	20	#12	1001			THERAPY POOL UV
COMP. POOL UV (FUTURE)		1330		#12	20	3	15	16	3	20	#12		1001		THERAPY POOL UV
COMP. POOL UV (FUTURE)			1330	#12	20	3	17	18	3	20	#12			1001	THERAPY POOL UV
				#12	20		19	20		20	#12				
				#12	20		21	22		20	#12				
				#12	20		23	24		20	#12				
				#12	20		25	26		20	#12				
				#12	20		27	28		20	#12				
				#12	20		29	30		20	#12				
SUB TOTAL	5432	5432	5432									65023	65023	65023	SUBTOTAL
TOTAL	70455	70455	70455												

ELECT HTG		KVA	
A/C LOADS	182.9	KVA	
MOTOR LOADS	21.5	KVA	
RECEPTACLE LOAD		KVA	
LIGHTING LOADS	7.0	KVA	
WATER HEATING		KVA	
TOTAL	211.4	KVA	

RATING: 480 VOLTS 400 AMPS 3 PHASE 22 KAIC
MAIN CKT BREAKER: 400 AMPS
NEMA RATING: 1
FEEDERS: 2RUN(S) NEU: 3/0 LOAD: 3/0 GRD: 3 COND: 2 IN.
MOUNTING: SURFACE

P-3

PANEL SCHEDULE

LOAD SERVED	VA PER PHASE A	B	C	WIRE SIZE	BRKR SIZE	NO. POLES	CKT NO.	CKT NO.	NO. POLES	BRKR SIZE	WIRE SIZE	VA PER PHASE A	B	C	LOAD SERVED
COMP. POOL CHEM CNTLR	360			#12	20	1	1	2	1	20	#12	1000			NATATORIUM LIGHTS
COMP. POOL LEVEL CNTLR		600		#12	20	1	3	4	1	20	#12		1000		NATATORIUM LIGHTS
COMP POOL CHLORINATOR			1800	#12	20	1	5	6	1	20	#12			80	POOL LIGHTS
COMP. POOL HEATER	2148			#12	20	1	7	8	1	20	#12	840			EQUIPMENT RM LIGHTS
THERAPY POOL LEVEL CNTLR		600		#12	20	1	9	10	1	20	#12		540		LIFE GUARD RECEPT
THERAPY POOL CHEM CNTLR			360	#12	20	1	11	12	1	20	#12			720	LIFE GUARD GFI
THERAPY POOL HEATER	1752			#12	20	1	13	14	1	20	#12	600			FAMILY 2 RR GFI
THERAPY POOL CHLORINATOR		1800		#12	20	1	15	16	1	20	#12		420		EF-3
SERVICE RECEPT *			1920	#12	20	1	17	18	2	20	#12			1000	DWH-3
EQUIP ROOM GFI *	1920			#12	20	1	19	20	2	20	#12	1000			DWH-3
EF-4		901		#12	20	3	21	22	1	20	#12		1200		SPARE
EF-4			901	#12	20	3	23	24	1	20	#12			1200	SPARE
EF-4	901			#12	20	3	25	26	1	20	#12	1200			SPARE
BIG ASS FANS		1826		#12	20	2	27	28	1	20	#12		1200		SPARE
BIG ASS FANS			1826	#12	20	2	29	30	1	20	#12			1200	SPARE
SUB TOTAL	7081	5726	6806									4640	4360	4200	SUBTOTAL
TOTAL	11721	10086	11007												

ELECT HTG		KVA	
A/C LOADS		KVA	
MOTOR LOADS	3.7	KVA	
RECEPTACLE LOAD	20.3	KVA	
LIGHTING LOADS	0.8	KVA	
WATER HEATING	5.9	KVA	
TOTAL	30.7	KVA	

RATING: 208 VOLTS 125 AMPS 3 PHASE 10 KAIC
MAIN CKT BREAKER: 125 AMPS
NEMA RATING: 1
FEEDERS: 1RUN(S) NEU: #1 LOAD: #1 GRD: 6 COND: 1-1/2 IN
MOUNTING: SURFACE

P-2

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REGISTERED ARCHITECTS — ETC Engineers & Architects, Inc. — No. C-462 — ARKANSAS

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No.7899 — JOHN MITCHELL WILLIS — 7/29/16

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LARRY S. BRYANT HEALTH AND WELLNESS CENTER EXPANSION/AQUATIC CENTER

FORREST CITY, AR

ISSUE / DATE	
7.29.2016	CONSTRUCTION DOCS
4.3.2017	M&E REVISIONS
DATE	DESCRIPTION

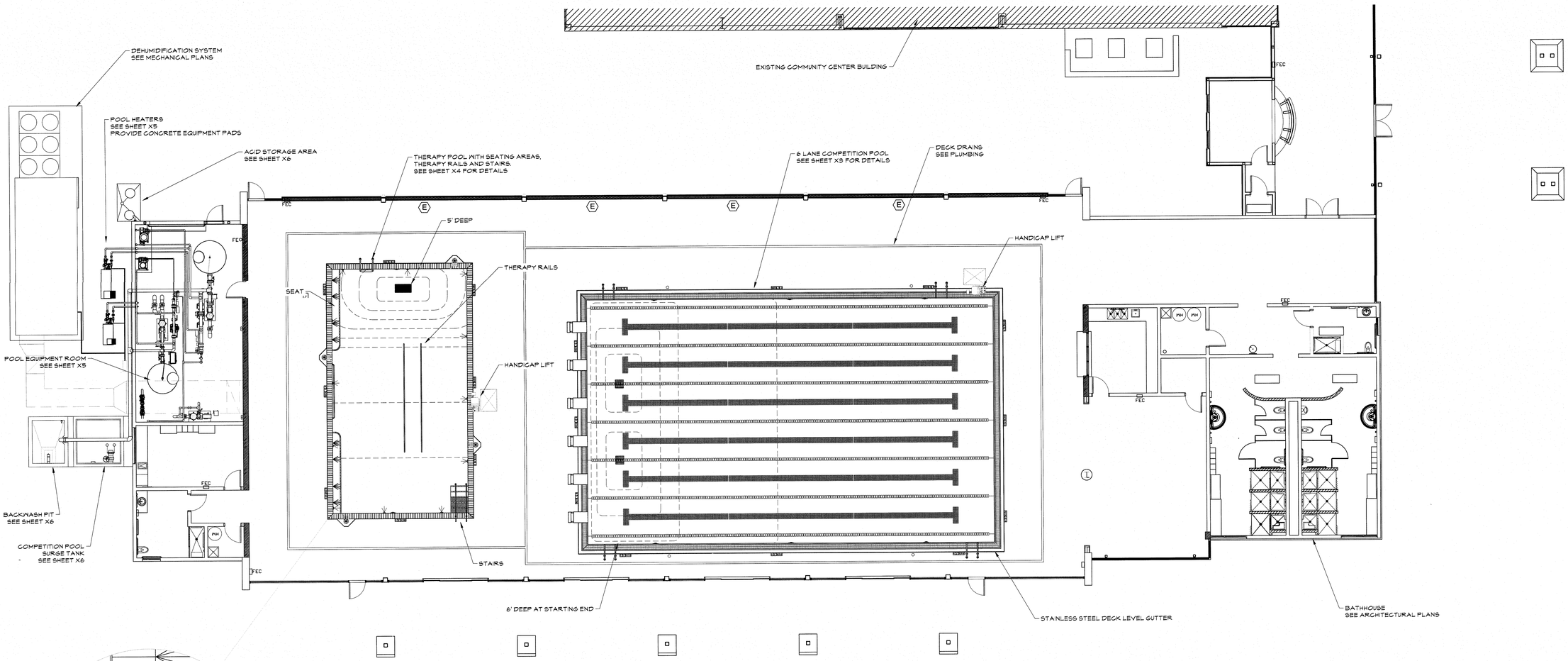
PROJECT NO. 163901 CFC

PROJECT PHASE: Construction Documents

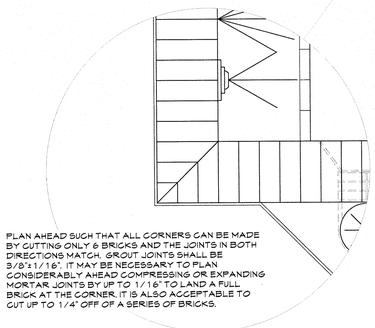
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SINGLE LINE & SCHEDULES

E3.1



1 INDOOR POOLS PLAN
SCALE: 1/8" = 1'-0"



PLAN AHEAD SUCH THAT ALL CORNERS CAN BE MADE BY CUTTING ONLY 6 BRICKS AND THE JOINTS IN BOTH DIRECTIONS MATCH. GROUT JOINTS SHALL BE 3/8"±1/16". IT MAY BE NECESSARY TO PLAN CONSIDERABLY AHEAD COMPRESSING OR EXPANDING MORTAR JOINTS BY UP TO 1/16" TO LAND A FULL BRICK AT THE CORNER. IT IS ALSO ACCEPTABLE TO CUT UP TO 1/4" OFF OF A SERIES OF BRICKS.

2 COPING BRICK DETAIL
SCALE: 1" = 1'-0"

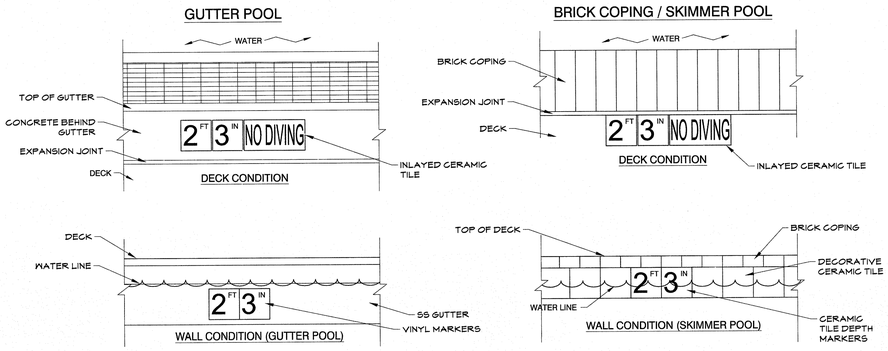
POOL RULES

MAXIMUM OCCUPANCY: 224

- ALL PERSONS USING POOL DO SO AT OWN RISK - WE ARE NOT RESPONSIBLE FOR ACCIDENTS OR INJURIES
- NO GLASS CONTAINERS
- DIVING IS PROHIBITED EXCEPT FROM DIVING BOARD
- NO RUNNING - NO PUSHING
- NO FOOD OR DRINK EXCEPT IN DESIGNATED AREA
- NO ANIMALS ALLOWED
- PEOPLE WITH LONG HAIR MUST WEAR BATHING CAPS

SIGN SHALL BE MINIMUM 14" WIDE x 20" TALL CONSTRUCTED OF ALUMINUM/ VINYL OR RIGID POLYURETHANE. TEXT SHALL BE SIMILAR TO ABOVE WITH 1/2" TALL LETTERS. SIGN SHALL BE SECURELY ANCHORED WITH 4 STAINLESS STEEL SCREWS AND EXPANSION TYPE ANCHORS. CONFIRM ACTUAL TEXT BEFORE ORDERING.

4 POOL RULES SIGN
SCALE: 1" = 1'-0"



1. DECK DEPTH MARKERS - 6 x 6 SKID RESISTANT, WHITE CERAMIC TILE WITH BLACK PRINT. USE "FT" AND "IN" SERIES 6" SR (SKID RESISTANT) WITH 4" NUMBERS. NO DIVING TILE TO BE 6" X 12" SRRG621700. TILE AS MANUFACTURED BY INLAY, INC. TILE TO BE SET FLUSH IN DECK PER MANUFACTURER DIRECTIONS.
2. WALL DEPTH MARKERS (SKIMMER POOLS) - EACH DECK DEPTH MARKER SHALL BE MIRRORED ON WALL AT TILE LINE WITH 6" SMOOTH CERAMIC TILE. SAME AS DECK MARKER EXCEPT SM, (SMOOTH). "NO DIVING" MARKERS NOT REQUIRED ON WALL.
3. WALL DEPTH MARKERS (GUTTER POOL) - EACH DECK DEPTH MRKER SHALL BE MIRRORED ON VERTICAL FACE OF GUTTER WITH 6" VINYL POOL MARKERS BY INLAY, INC. "NO DIVING" MARKERS NOT REQUIRED ON WALL.

5 DEPTH MARKER DETAILS
SCALE: 1" = 1'-0"

POOL SPECIFICATIONS

COMPETITION POOL:

AREA:	3,379 SF
PERIMETER:	240 FT
DEPTH:	4'-0" TO 6'-3"
VOLUME:	133,300 GALLONS
TURNOVER:	6 HR
MINIMUM FLOW RATE:	370 GPM

THERAPY POOL:

AREA:	1,125 SF
PERIMETER:	140 FT
DEPTH:	3' TO 5'
VOLUME:	33,100 GALLONS
TURNOVER:	2 HR
MINIMUM FLOW RATE:	276 GPM

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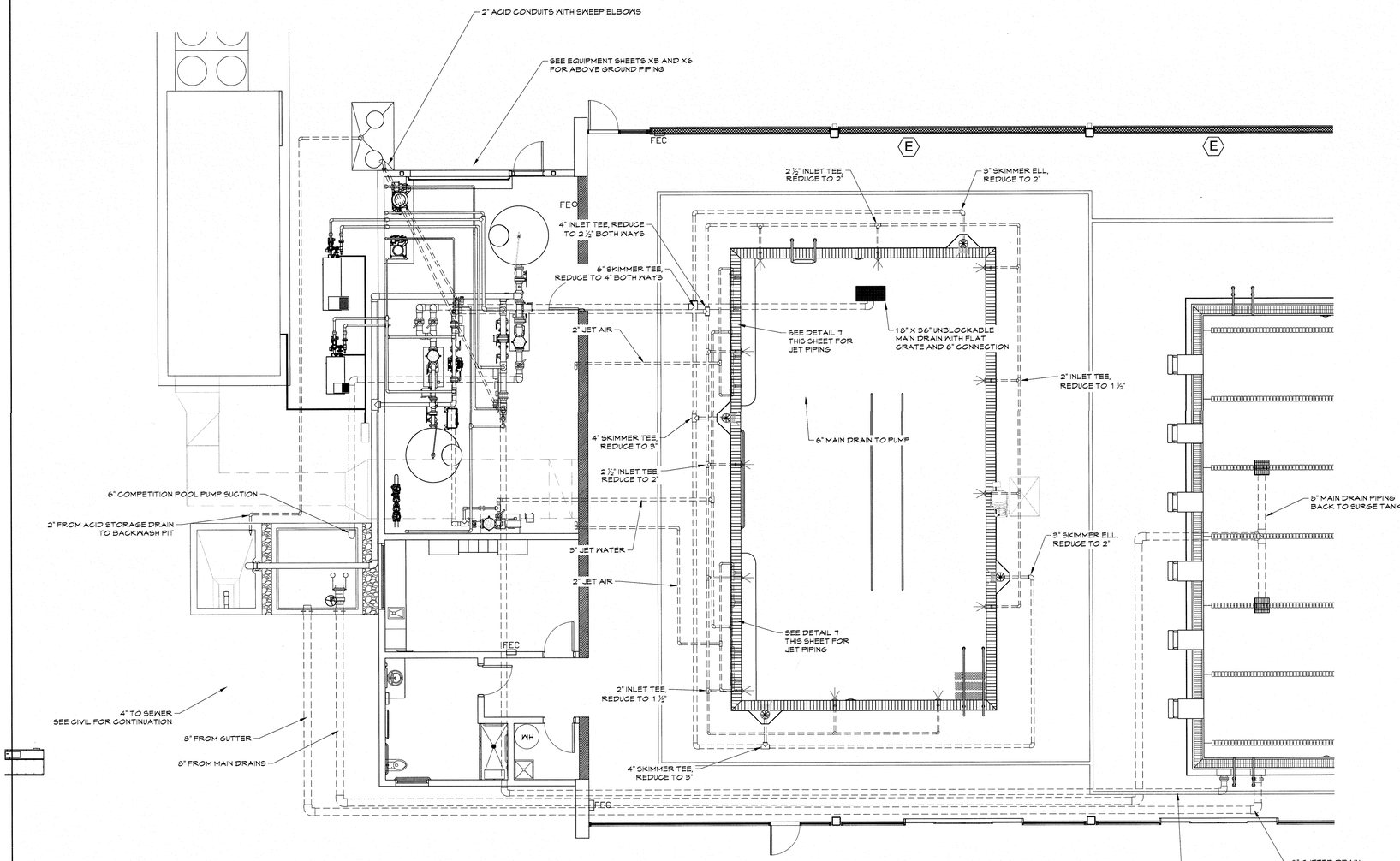
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POOLS PLAN

X1

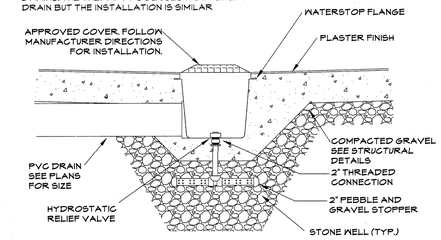


1 INDOOR POOLS PIPING PLAN
SCALE: 3/16" = 1'-0"

NOTE:

A POOL AREA BOND GRID SHALL FULLY COMPLY WITH ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE. ALL METAL ITEMS WITHIN THE POOL AREA SUCH AS LADDER SOCKETS, STANCHION SOCKETS, HANDRAIL SOCKETS, METAL MAIN DRAINS, DECK REINFORCING, POOL REINFORCING, LIGHT NICHES, PUMPS, FILTERS AND ANY METAL EQUIPMENT THAT CONTACTS POOL WATER SHALL BE INCLUDED.

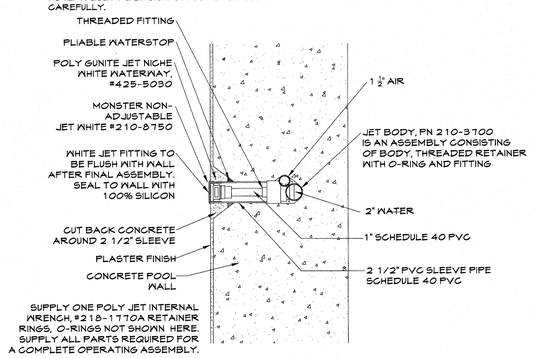
NOTE: THIS DETAIL IS COMPETITION POOL DRAINS. THE THERAPY POOL USES A DIFFERENT DRAIN BUT THE INSTALLATION IS SIMILAR



2 FLOOR DRAIN DETAIL
SCALE: 3/4" = 1'-0"

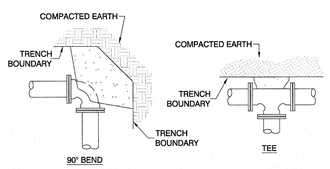
BASIC DIRECTIONS: THERAPY JETS
1. SECURE JET BODIES AND SUPPLY PIPING TO REBAR.
2. EACH PAIR OF JETS WILL HAVE ONE HIGH AND ONE LOW. THE HIGH IS TO BE 6" DOWN FROM TOP OF BEAM (3' IN WATER). THE LOWER IS TO BE 10" ABOVE THE SEAT. SINCE THE SEAT DEPTH VARIES, THE ANGLE OF THE JET PAIR AND THEREFORE THE ACTUAL DISTANCE BETWEEN THE JETS VARIES. THE HORIZONTAL DISTANCE BETWEEN THE JETS SHALL ALWAYS BE 36".
3. FRONT OF THE JET BODIES MUST BE MORE THAN 4" FROM INSIDE POOL WALL.
4. GLUE 2 1/2" SCHED 40 PVC INTO BODY. INSURE PERPINDICULAR TO WALL.
5. WHEN SHOOTING CONCRETE, CUT BACK AROUND PIPE.
6. SEAL AROUND 2 1/2" PIPE WITH PLIABLE WATERSTOP.
7. CUT 2 1/2" PIPE SUCH THAT PLASTER NICHE WILL FINISH FLUSH WITH PLASTER. GLUE PLASTER NICHE ONTO PIPE.
8. WHEN PLASTERING, FILL BEHIND AND AROUND PLASTER NICHE.
9. MEASURE AND CUT 1" PVC PER MANUFACTURER DIRECTIONS.
10. ASSEMBLE JET HOUSING, 1" PVC AND THREADED FITTING WITH PVC GLUE.
11. APPLY SILICONE LUBRICANT TO THREADS AND O-RING.
12. INSTALL HOUSING ASSEMBLY SEALING HOUSING FACE TO PLASTER NICHE WITH A WATERPROFF SILICONE SEALANT.
13. INSTALL JET WITH SILIGONE LUBRICANT ON THREADS, AFTER SCREWING JET INTO HOUSING FULLY, TURN JET COUNTERCLOCKWISE UNTIL FULLY OPEN.

NOTE: THESE ARE BASIC INSTRUCTIONS. FOLLOW MANUFACTURERS DIRECTIONS CAREFULLY.



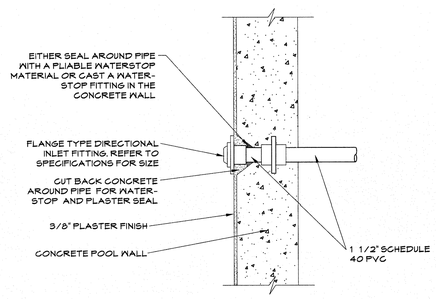
SUPPLY ONE POLY JET INTERNAL WRENCH, #218-1770A RETAINER RINGS, O-RINGS NOT SHOWN HERE. SUPPLY ALL PARTS REQUIRED FOR A COMPLETE OPERATING ASSEMBLY.

3 THERAPY JET DETAIL
SCALE: 1 1/2" = 1'-0"

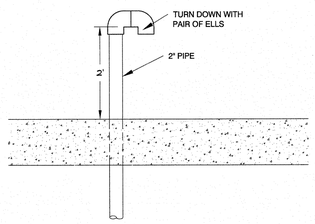


BEARING AREA OF BLOCK IN SQ. FT.					
FITTING SIZES	TEE AND END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6"	3.6	5.4	2.5	1.5	0.8
8"	6.3	8.9	4.8	2.5	1.3
10"	9.9	13.9	7.6	3.9	2.0
12"	14.2	20.0	10.9	5.6	2.8

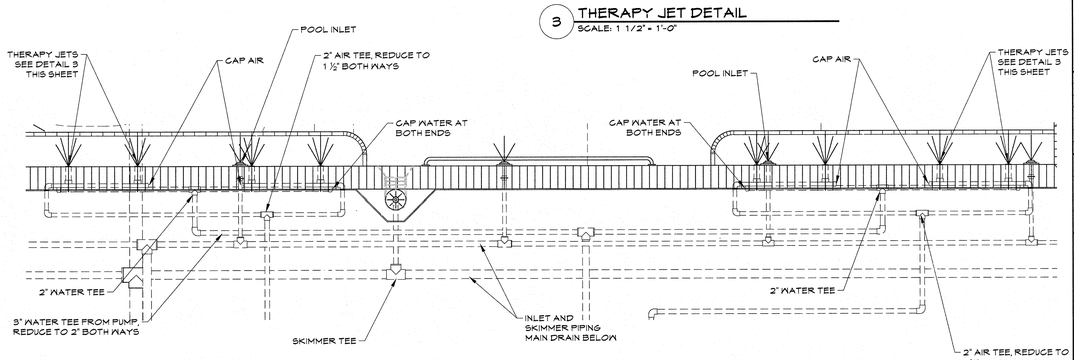
4 THRUST BLOCKING DETAILS
SCALE: N.T.S.



5 WALL INLET DETAIL
SCALE: 1 1/2" = 1'-0"



6 AIR INTAKE DETAIL
SCALE: 3/4" = 1'-0"



7 SEAT JET PIPING DETAIL
SCALE: 3/8" = 1'-0"

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FORREST CITY, AR

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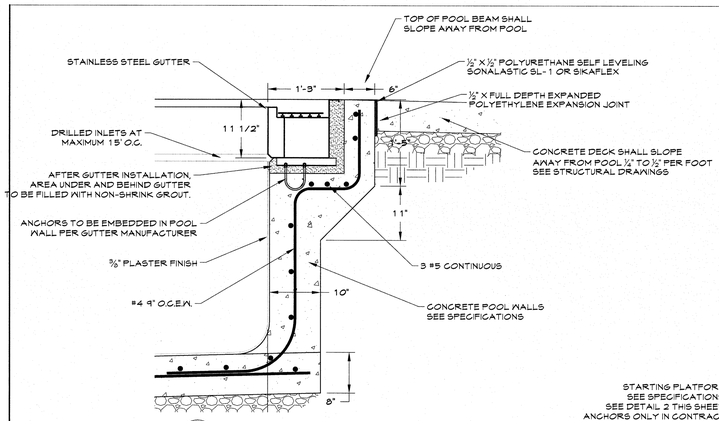
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PROJECT PHASE CONSTRUCTION DOCUMENTS

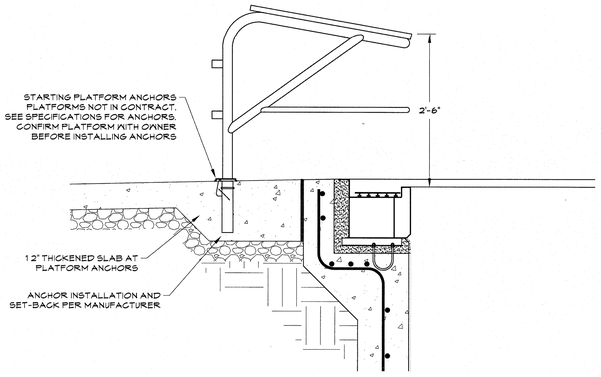
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POOLS PIPING PLAN

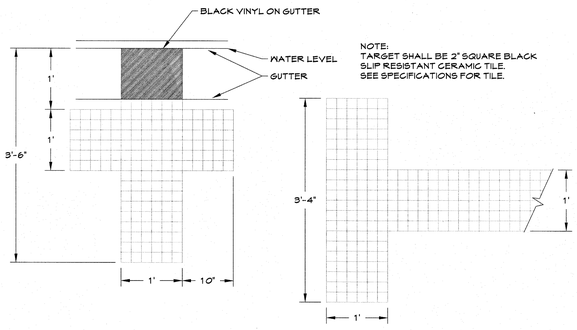
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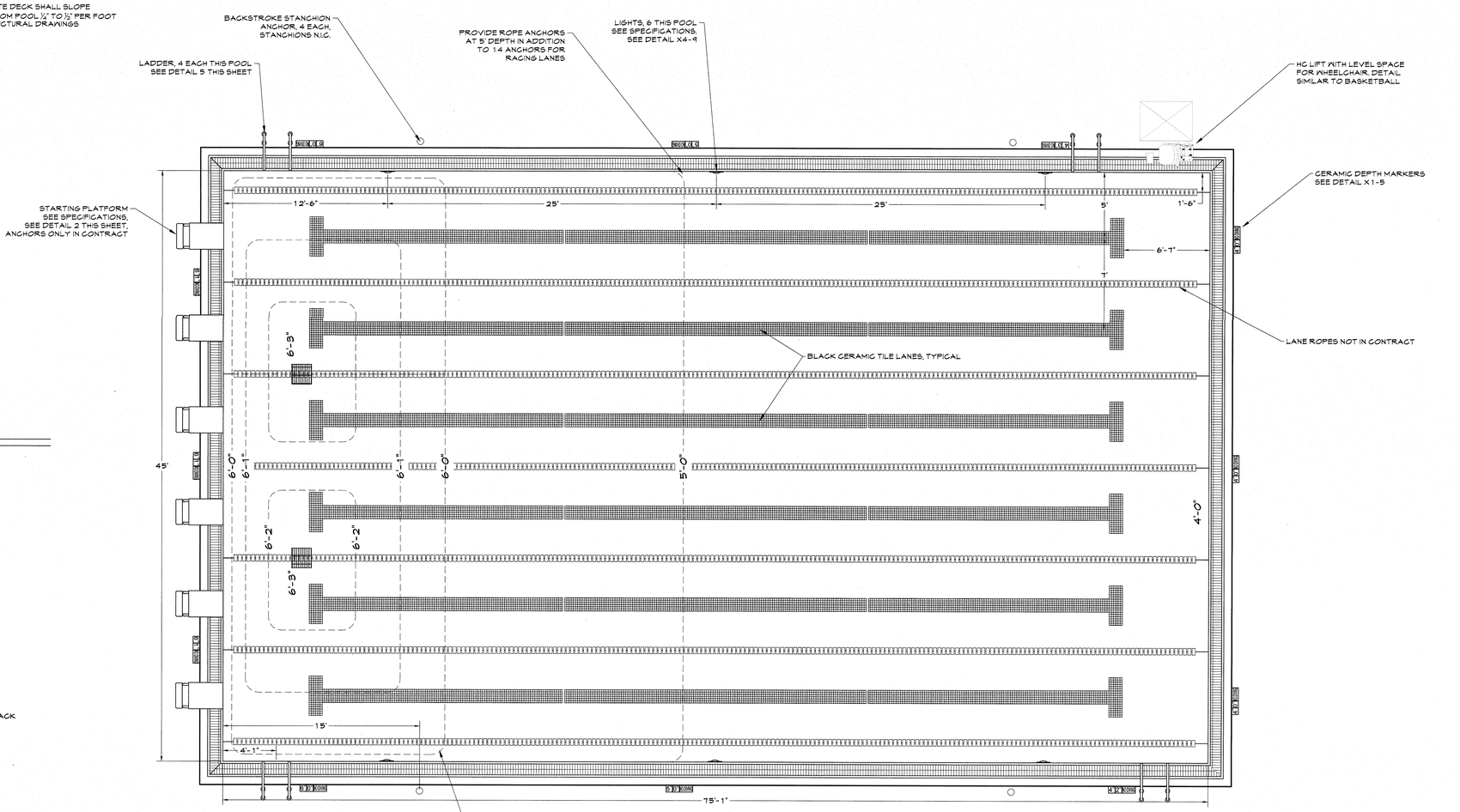
1 GUTTER/BEAM DETAIL
SCALE: 1" = 1'-0"



2 STARTING PLATFORM DETAIL
SCALE: 1" = 1'-0"

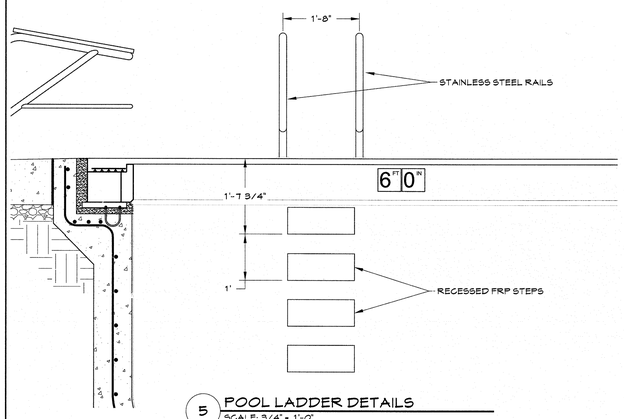


3 TARGET AND LANE DETAIL
SCALE: 1" = 1'-0"

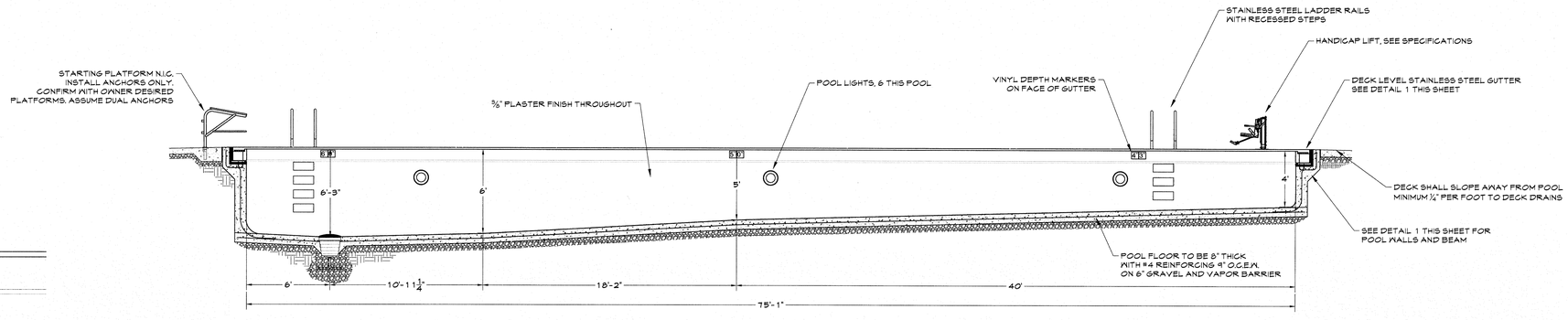


4 COMPETITION POOL PLAN
SCALE: 1/4" = 1'-0"

2" BREAK IN TILE @ 44'-2 ½" FROM FAR END WALL BOTH ENDS OF POOL



5 POOL LADDER DETAILS
SCALE: 3/4" = 1'-0"



6 COMPETITION POOL PLAN
SCALE: 1/4" = 1'-0"

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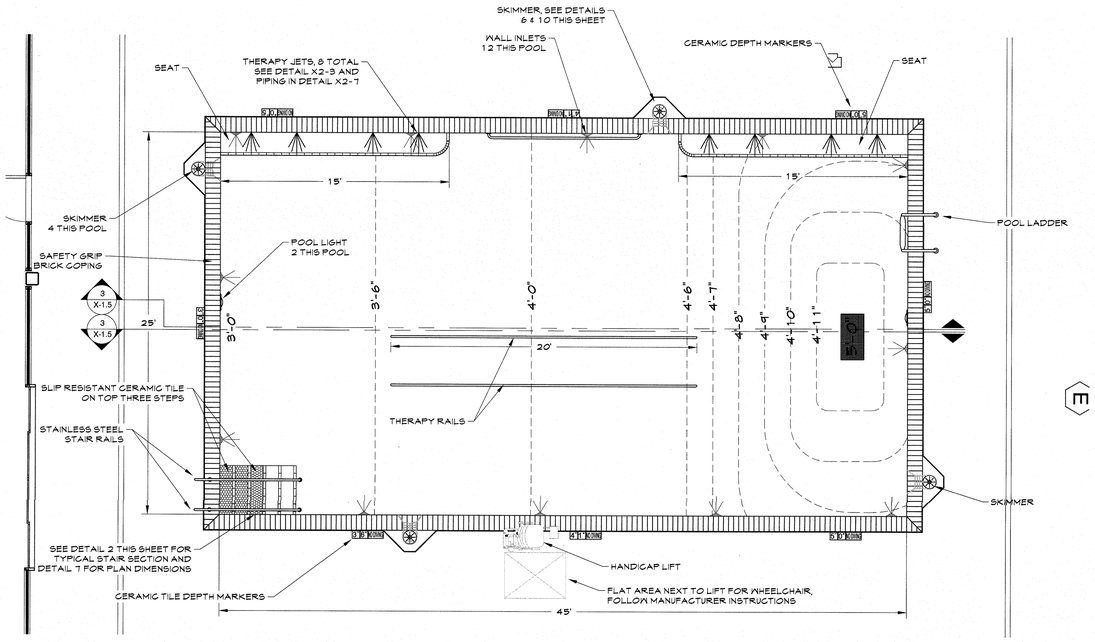
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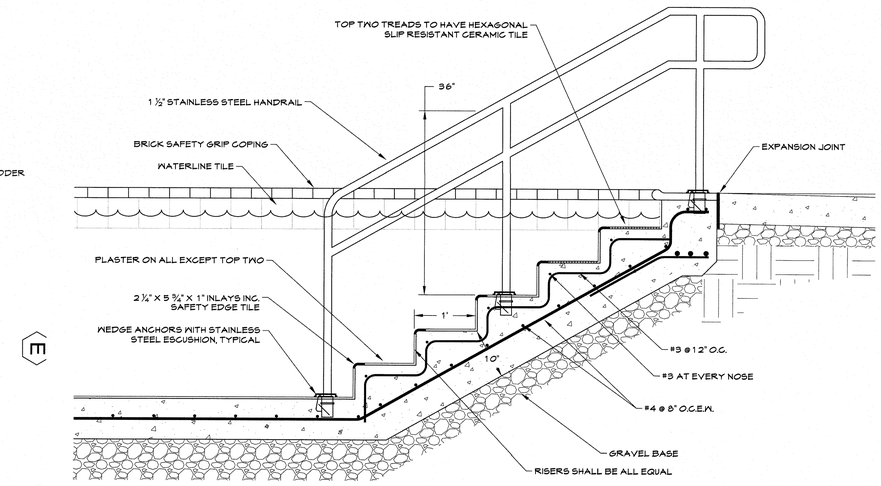
COMPETITION POOL

X3

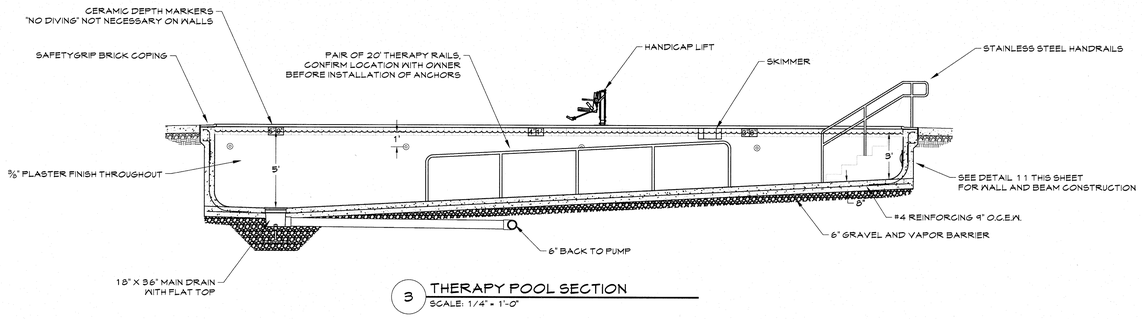
A POOL AREA BOND GRID SHALL FULLY COMPLY WITH ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE. ALL METAL ITEMS WITHIN THE POOL AREA SUCH AS LADDER SOCKETS, STANCHION SOCKETS, HANDRAIL SOCKETS, METAL MAIN DRAINS, DECK REINFORCING, POOL REINFORCING, LIGHT NICHES, PUMPS, FILTERS AND ANY METAL EQUIPMENT THAT CONTACTS POOL WATER SHALL BE INCLUDED.



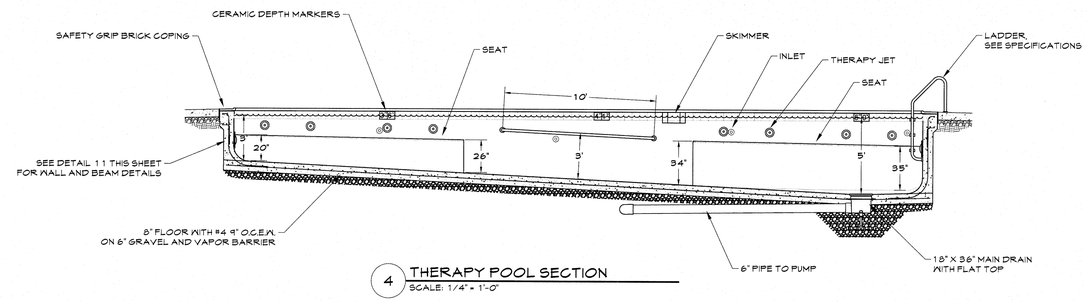
1 THERAPY POOL PLAN
SCALE: 1/4" = 1'-0"



2 TYPICAL STAIR DETAIL
SCALE: 1" = 1'-0"

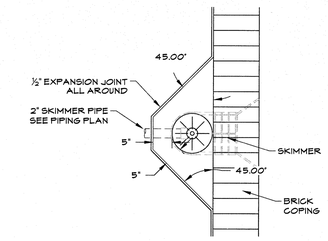


3 THERAPY POOL SECTION
SCALE: 1/4" = 1'-0"

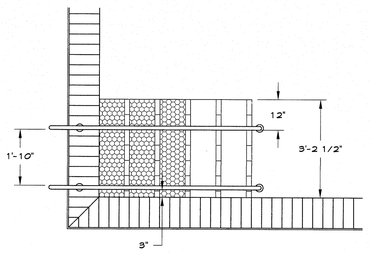


4 THERAPY POOL SECTION
SCALE: 1/4" = 1'-0"

5 NOT USED
SCALE: 1/4" = 1'-0"

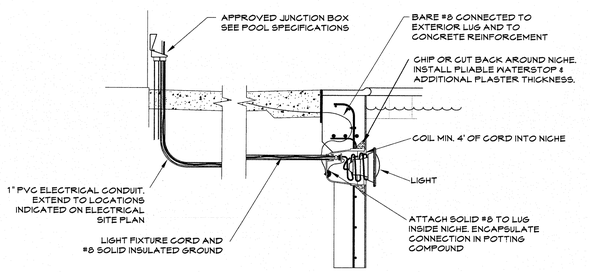


6 SKIMMER DETAIL
SCALE: 3/4" = 1'-0"

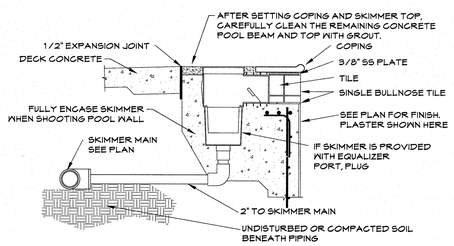


7 STAIR PLAN
SCALE: 1/2" = 1'-0"

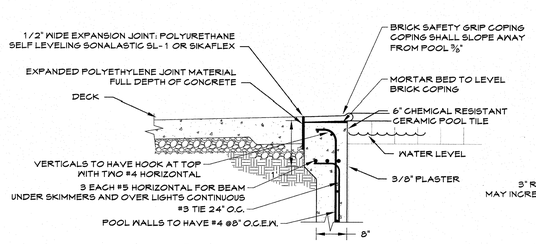
8 NOT USED
SCALE: 1/4" = 1'-0"



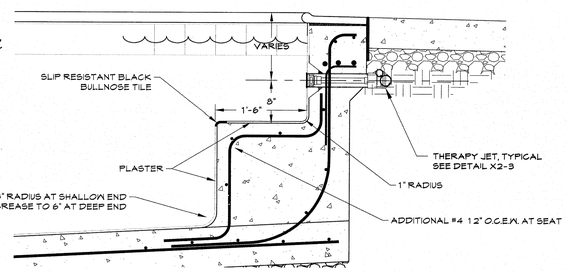
9 POOL LIGHT DETAIL
SCALE: 3/4" = 1'-0"



10 SKIMMER DETAIL
SCALE: 3/4" = 1'-0"



11 POOL BEAM DETAIL
SCALE: 3/4" = 1'-0"



12 THERAPY SEAT SECTION
SCALE: 1" = 1'-0"

GEOTECHNICAL ENGINEER
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ENGINEERING & ARCHITECTURAL CONSULTANTS, INC. CONSTRUCTION MANAGERS
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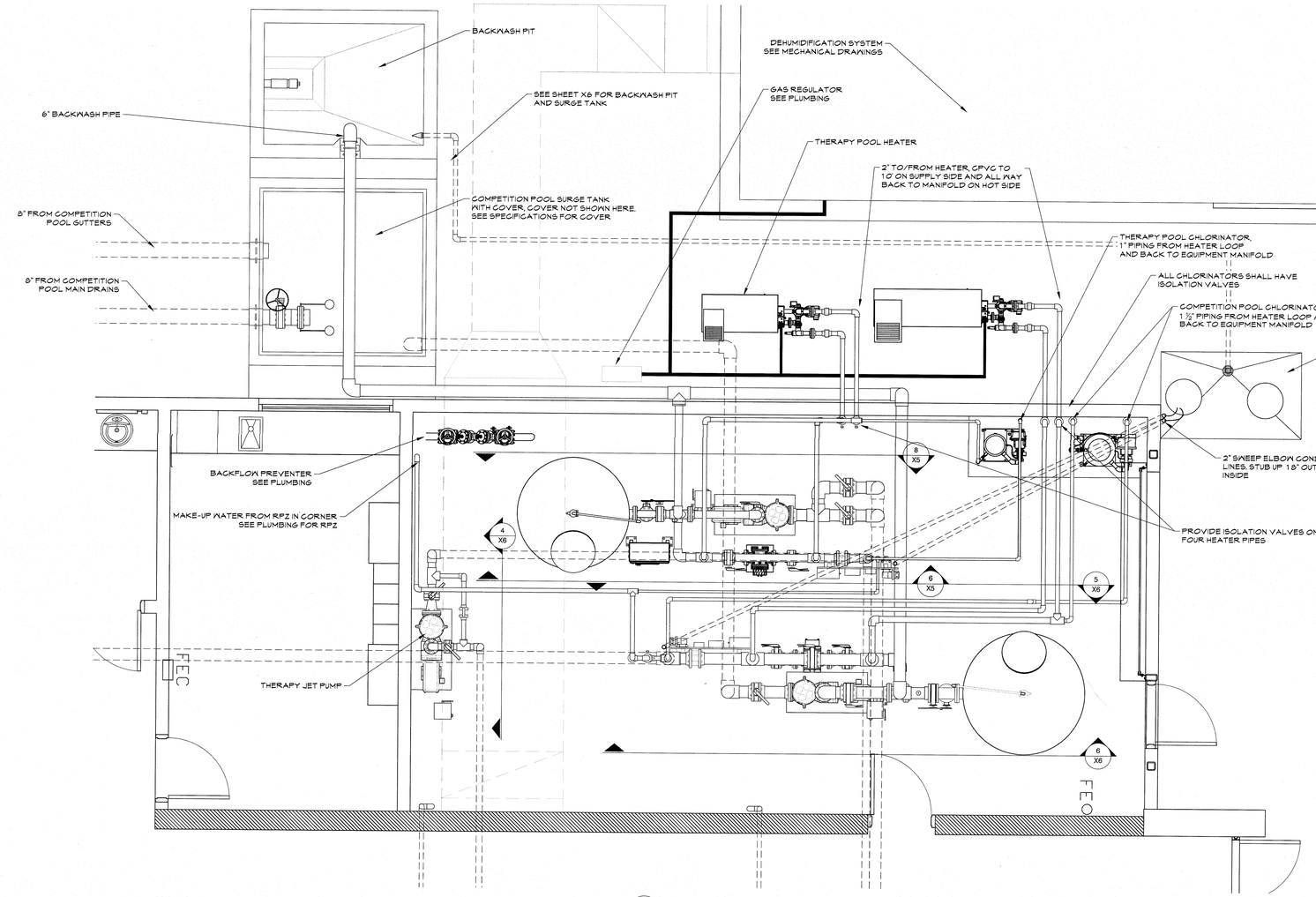
LARRY S. BRYANT
HEALTH AND WELLNESS CENTER
EXPANSION/AQUATIC CENTER
FORREST CITY, AR

ISSUE / DATE	
3/29/2016	CONSTRUCTION DOCUMENTS
DATE	DESCRIPTION

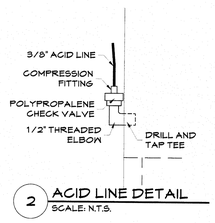
PROJECT NO. 163901 CFC
PROJECT PHASE CONSTRUCTION DOCUMENTS
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THERAPY POOL

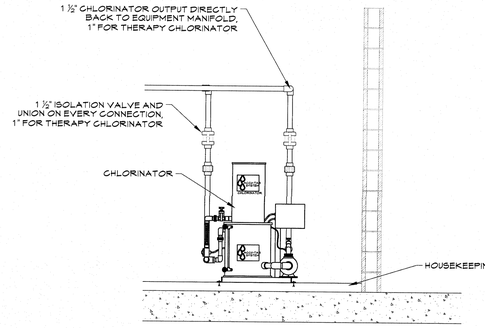
X4



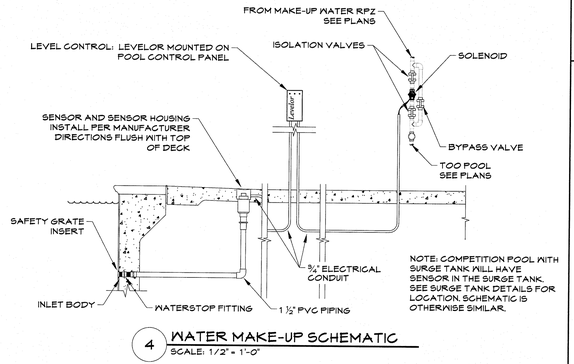
1 POOL EQUIPMENT PLAN
SCALE: 3/8" = 1'-0"



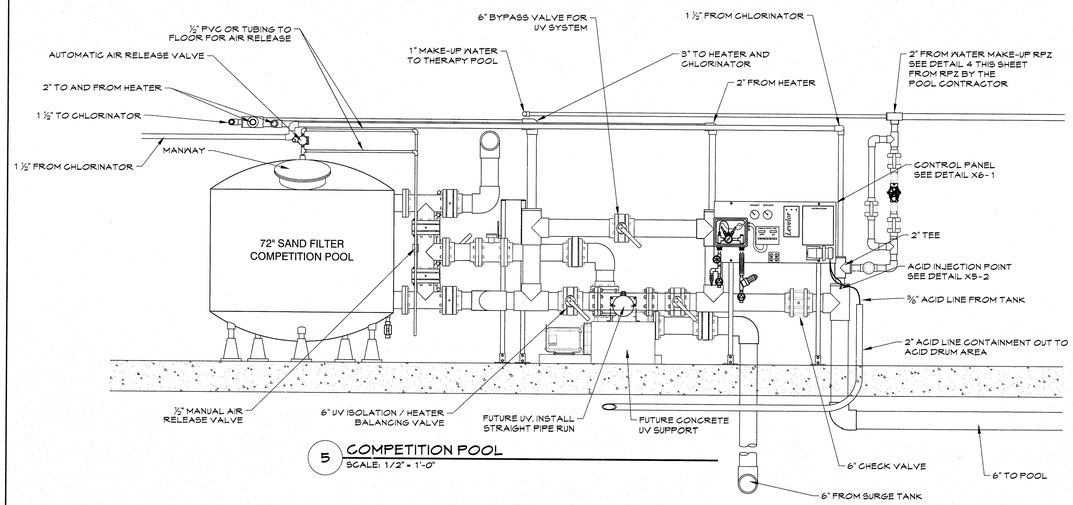
2 ACID LINE DETAIL
SCALE: N.T.S.



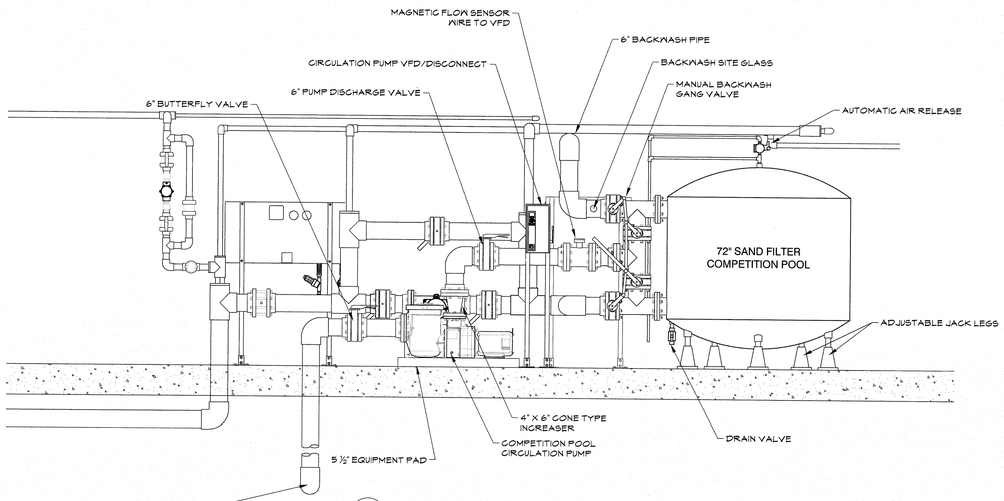
3 TYPICAL CHLORINATOR
SCALE: 1/2" = 1'-0"



4 WATER MAKE-UP SCHEMATIC
SCALE: 1/2" = 1'-0"



5 COMPETITION POOL
SCALE: 1/2" = 1'-0"



6 COMPETITION POOL
SCALE: 1/2" = 1'-0"

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DATE	DESCRIPTION

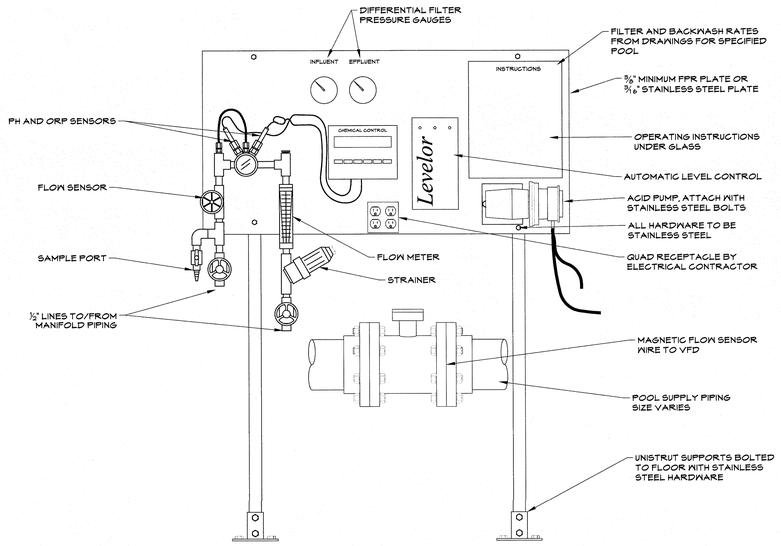
PROJECT NO.
163901 CFC

PROJECT PHASE
CONSTRUCTION DOCUMENTS

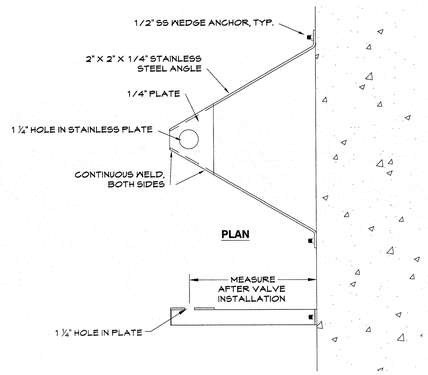
DRAWN BY: CHECKED BY:

EQUIPMENT

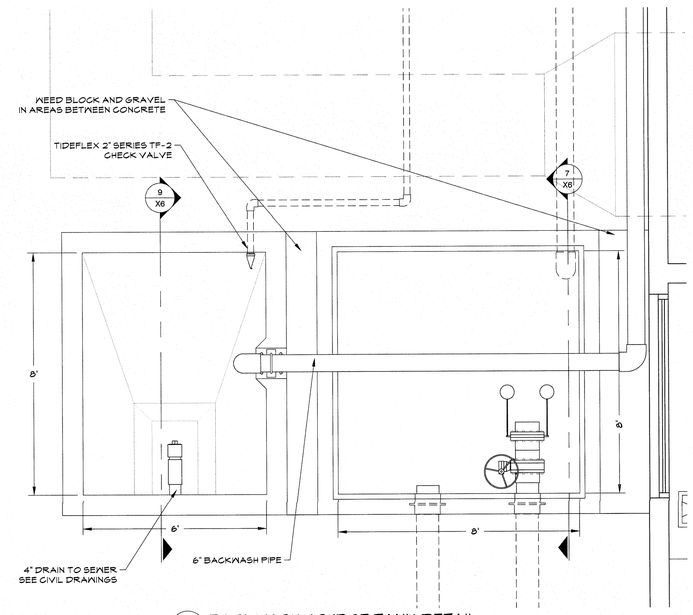
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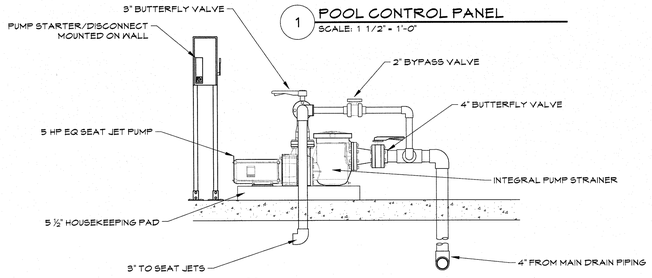
1 POOL CONTROL PANEL
SCALE: 1 1/2" = 1'-0"



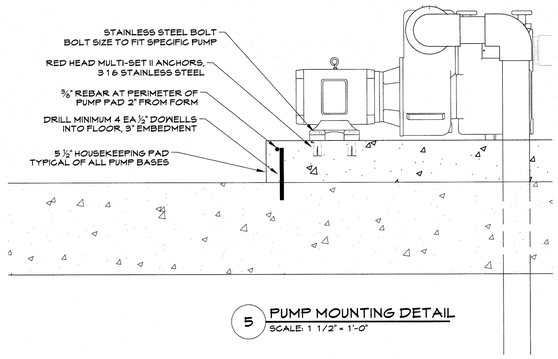
2 SURGE TANK VALVE STEM SUPPORT
SCALE: 1 1/2" = 1'-0"



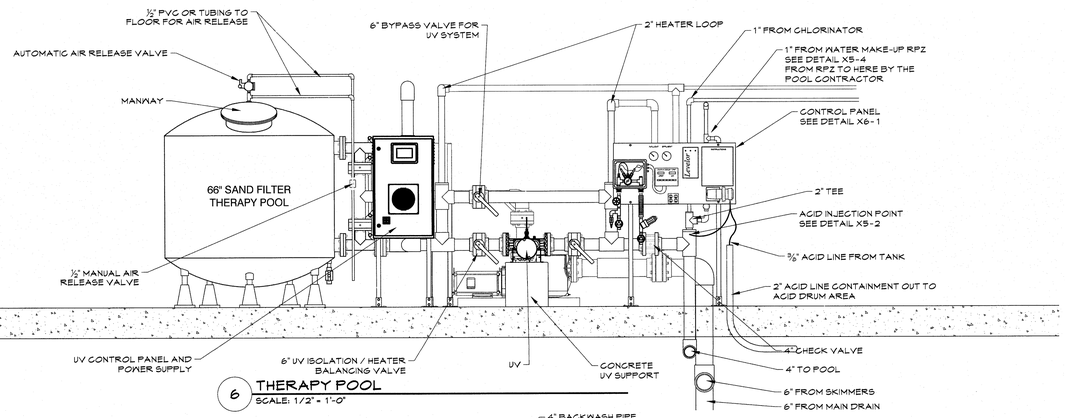
3 BACKWASH / SURGE TANK DETAIL
SCALE: 1/2" = 1'-0"



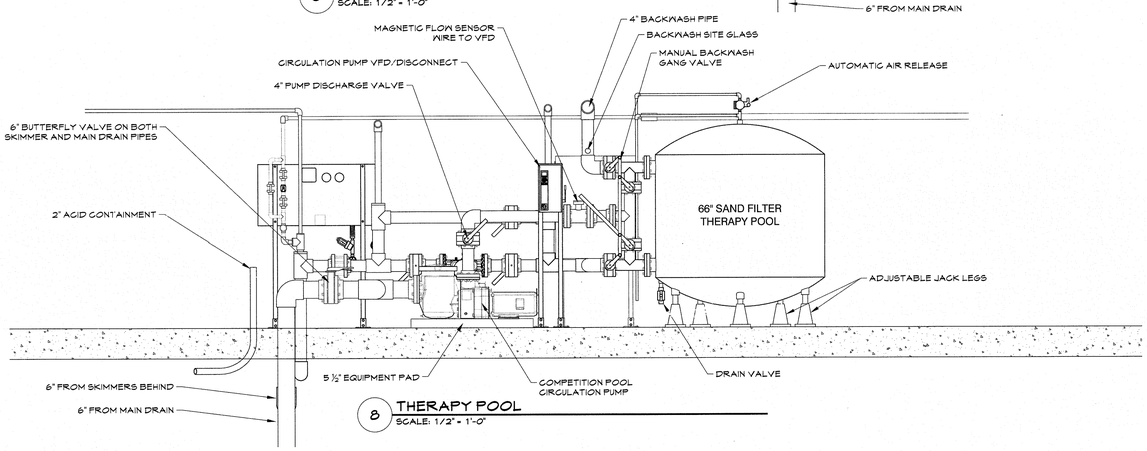
4 THERAPY SEAT JET PUMP
SCALE: 1/2" = 1'-0"



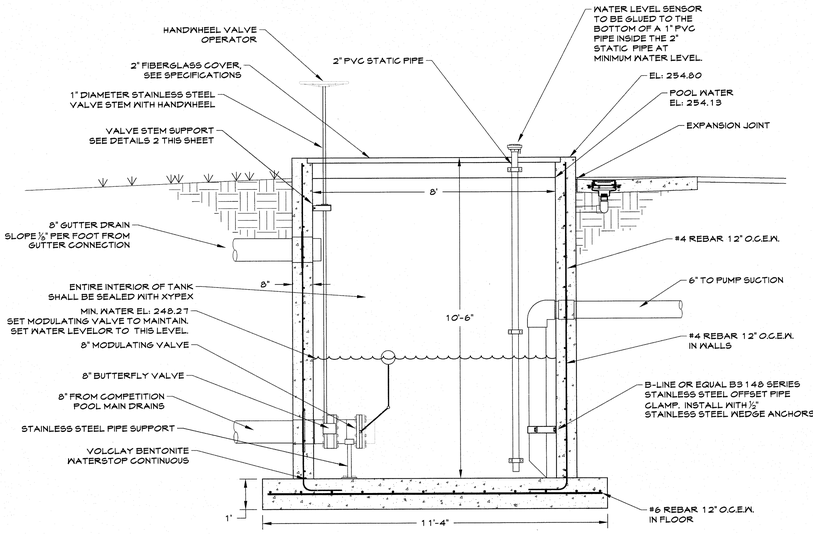
5 PUMP MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"



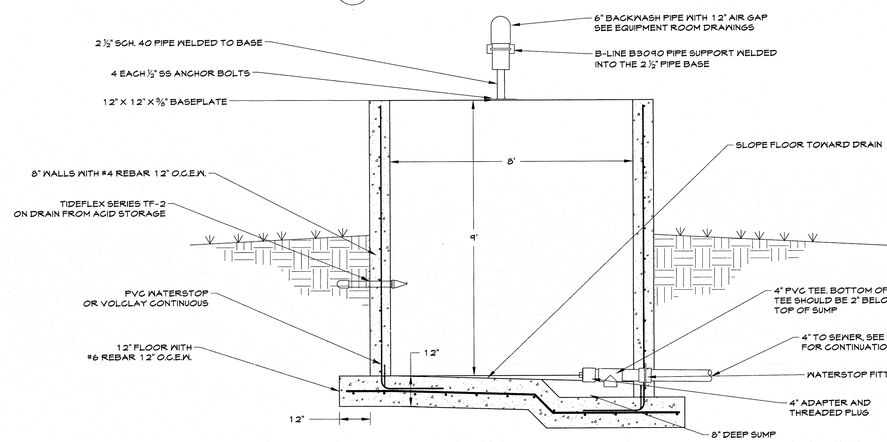
6 THERAPY POOL
SCALE: 1/2" = 1'-0"



8 THERAPY POOL
SCALE: 1/2" = 1'-0"



7 BACKWASH PIT SECTION
SCALE: 1/2" = 1'-0"



9 BACKWASH PIT SECTION
SCALE: 1/2" = 1'-0"

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EQUIPMENT DETAILS

X6