

WEST VIRGINIA VETERANS MEMORIAL CAPITAL COMPLEX CHARLESTON, WEST VIRGINIA

WEST VIRGINIA VETERANS MEMORIAL COMMISSION

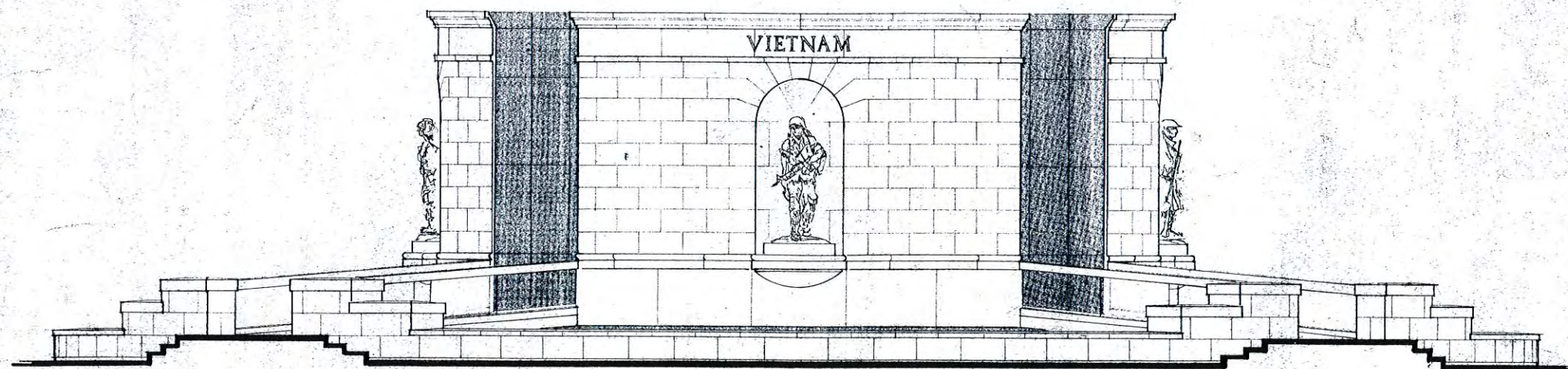
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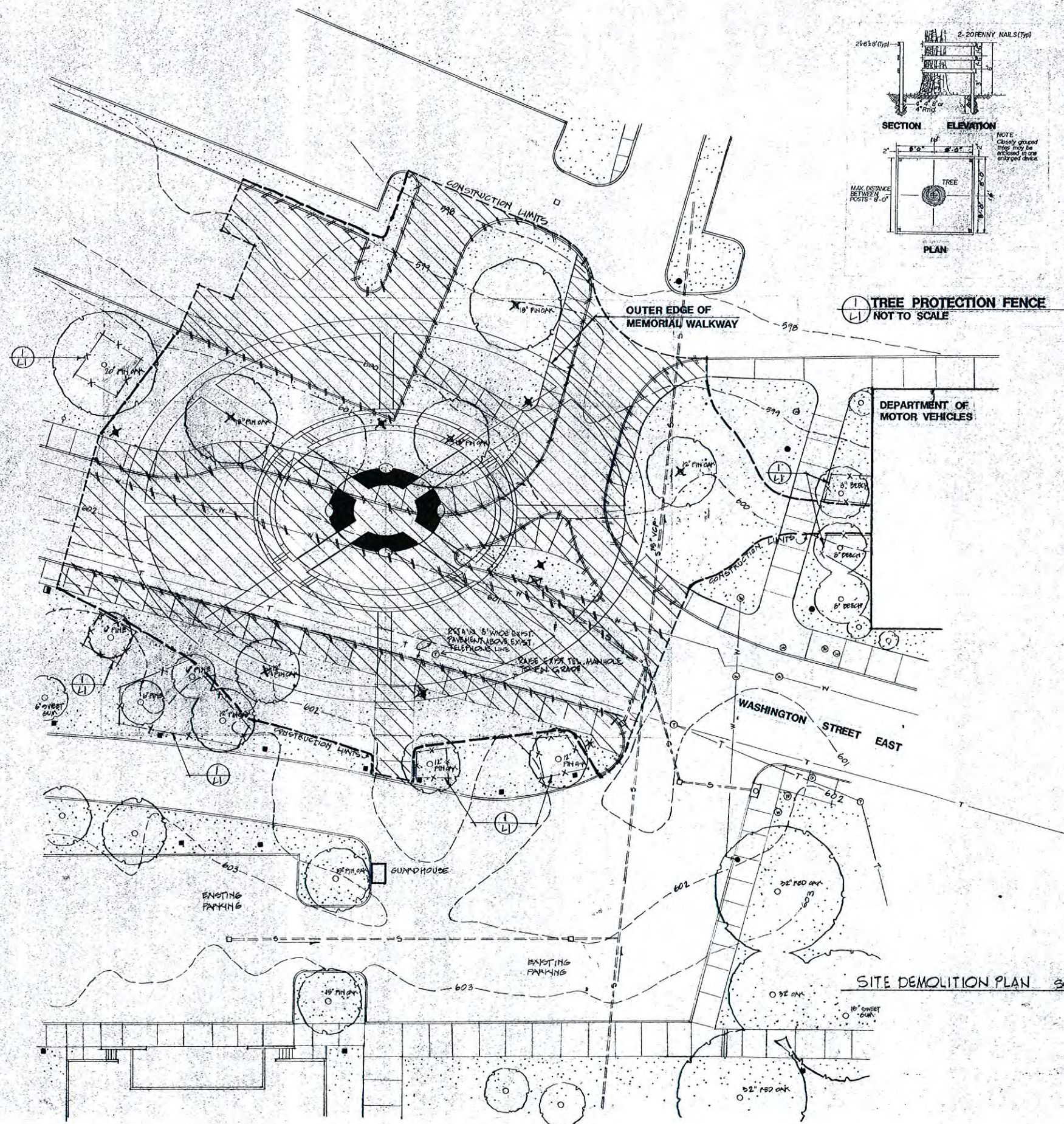
STEVEN BRANNER, A.I.A. PROJECT MANAGER
ROBERT L. RAFFLE, A.I.A. P.E. LIGHTING DESIGNER
MARTIN KLAPROTH COMPUTER DRAFTING
EARL PHILLIPS, A.I.A. SPECIFICATIONS
RICHARD SHERMAN DESIGN CO-ORDINATION

R.J. ANKROM & ASSOC. LANDSCAPE ARCHITECTS
PARKERSBURG, WEST VIRGINIA



DRAWING INDEX

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	EXISTING	REMOVED	PROPOSED
CURB INLET			
DROP INLET			
WATER VALVE OR METER			
TELEPHONE MANHOLE			
LIGHT POLE			
BOLLARD LIGHT			
GAS VALVE			
FIRE HYDRANT			
SIGN			
DOH CONTROL BOX			
TREES OR SHRUBS			
WATER LINE			
TELEPHONE LINE (UNDERGROUND)			
COMBINATION SEWER			
CONCRETE CURB			
CONCRETE PAVING			
ASPHALT PAVING			
LAWN AREA			
CONTOURS			
TREE PROTECTION FENCE			
SPOT ELEVATIONS			
SAWCUT			

DEMOLITION NOTES

P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241

**RJankrom
Associates**
Landscape Architecture & Land Planning
Grand Plaza
1107 Ninth Street
Vienna, West Virginia 26105
304/295-9304



Z M M, INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
304-342-0159

WEST VIRGINIA VETERANS MEMORIAL

CAPITOL COMPLEX

CHARLESTON, WEST VIRGINIA

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L-1

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SITE WORK NOTES

- 1) The Contractor shall verify all quantities and dimensions and report any discrepancies to the Architect, prior to construction.
- 2) The Contractor shall set scale off the drawings. All written dimensions shall prevail.
- 3) The Contractor shall stake out the location of all proposed improvements and obtain approval from the architect prior to proceeding with the work.
- 4) All areas of disturbed grade designated as proposed lawn area shall receive 6" of topsoil and nursery sod as specified. The Contractor shall provide an alternate bid for seeding the lawn areas as specified.

PLANT MATERIALS:

BATEA, JUTIFERUS CHINENSIS
PLANTER COMPACTA
SIZE: 10" SPREAD (4" D. 3 GAL. CONT)
PLANT ON 2' O' ALTERNATE CENTERS
METAL EDGING
LAWN AREA

BALL & BURLAP PLANTS!
PEEL BACK BURLAP TO EXPOSE
TOP 1/2 OF BALL. REMOVE ALL
BINDING ROPE.
CONTAINER BROWN PLANTS
REMOVE PLANTS FROM CONT.
PRIOR TO PLANTING.
CONSTRUCT BARRIER OF
3" BARK MULCH 6" DEEP
ON EACH SIDE
OF ROOT BALL TO
RETAIN MOISTURE

WEED CONTROL FABRIC BENEATH
MULCH
PLANTING MIXTURE
HAND COMPACT PLANTING
MIXTURE BENEATH BALL
SCAFFY BOTTOM 4 SIDES
OF HOLE TO 4" DEPTH MIN.
PLACE TOP OF BALL AT SAME
ELEVATION AS FINISHED GRADE!
DO NOT PLACE PLANTING MIXTURE
ON TOP OF ROOT BALL.

METAL EDGING
(3/16" X 1/2")
FLUSH OVERLAP JOINT
ASSEMBLY
PUNCHED SLOTS
16" METAL STAKES
ON 30" CENTERS
PLACE METAL STAKE
ON MULCH SIDE OF
EDGING
6" TOPSOIL
SUBSOIL CULTIVATE
SUBSOIL TO A DEPTH
OF 6" MIN. PRIOR
TO PLACING TOPSOIL
WEED CONTROL FABRIC SHALL BE TYPE NO. 3501
AS MANUFACTURED BY DUPONT CO. OR APPROVED EQUAL.
PASTER WEED CONTROL FABRIC IN PLACE 1/2" HAVY MIB HERE

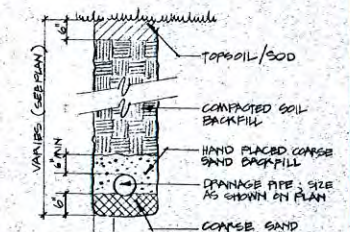
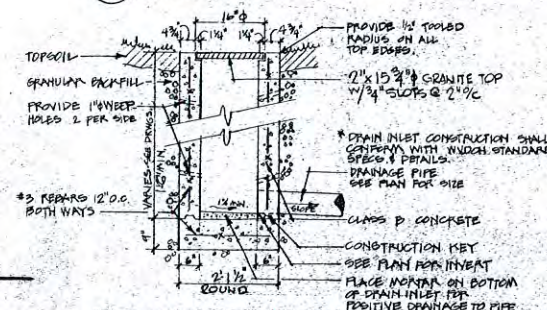
2 SHRUB PLANTING 1/2 NOT TO SCALE

FOR GEOMETRIC LAYOUT OF CONC.
WALKS SEE DRAWING A-1

6 X 6 #10 W/16" PULL TO
CENTER OF WALK
LIGHT BROWN FINISH ON
ALL CONC. WALKS; TOOL
ALL EDGES W/ 1/2" RAD.
#4 REBAR TYP.
INCREASE DEPTH
AT ALL EDGES

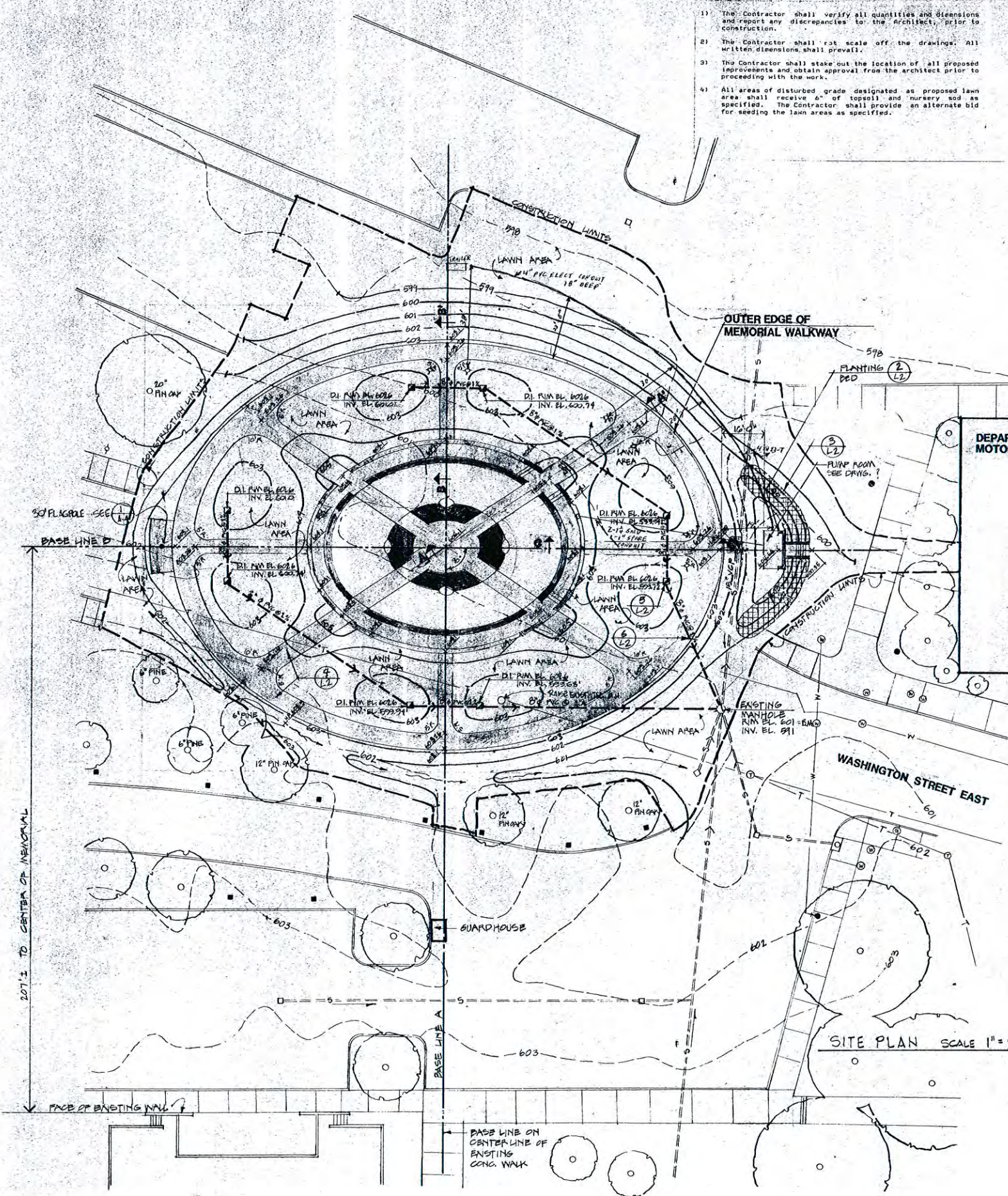
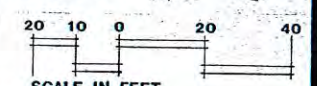
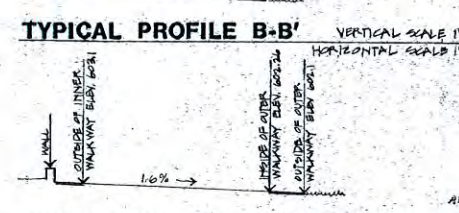
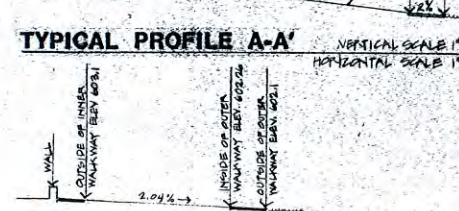
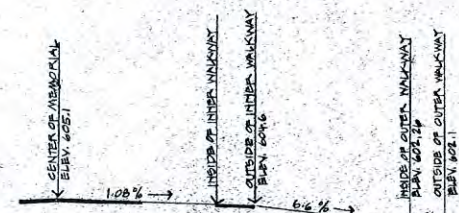
3 METAL EDGING 1/2 NOT TO SCALE

4 TYPICAL CONCRETE WALK 1/2 SCALE: 1/2" = 1'-0"



5 TYPICAL DRAIN INLET 1/2 SCALE: 1/2" = 1'-0"

6 TYPICAL DRAINAGE PIPE BEDDING 1/2 SCALE: 1/2" = 1'-0"



P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241

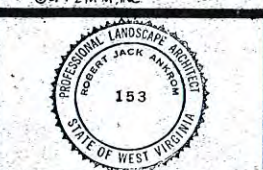
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ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
304-342-0159

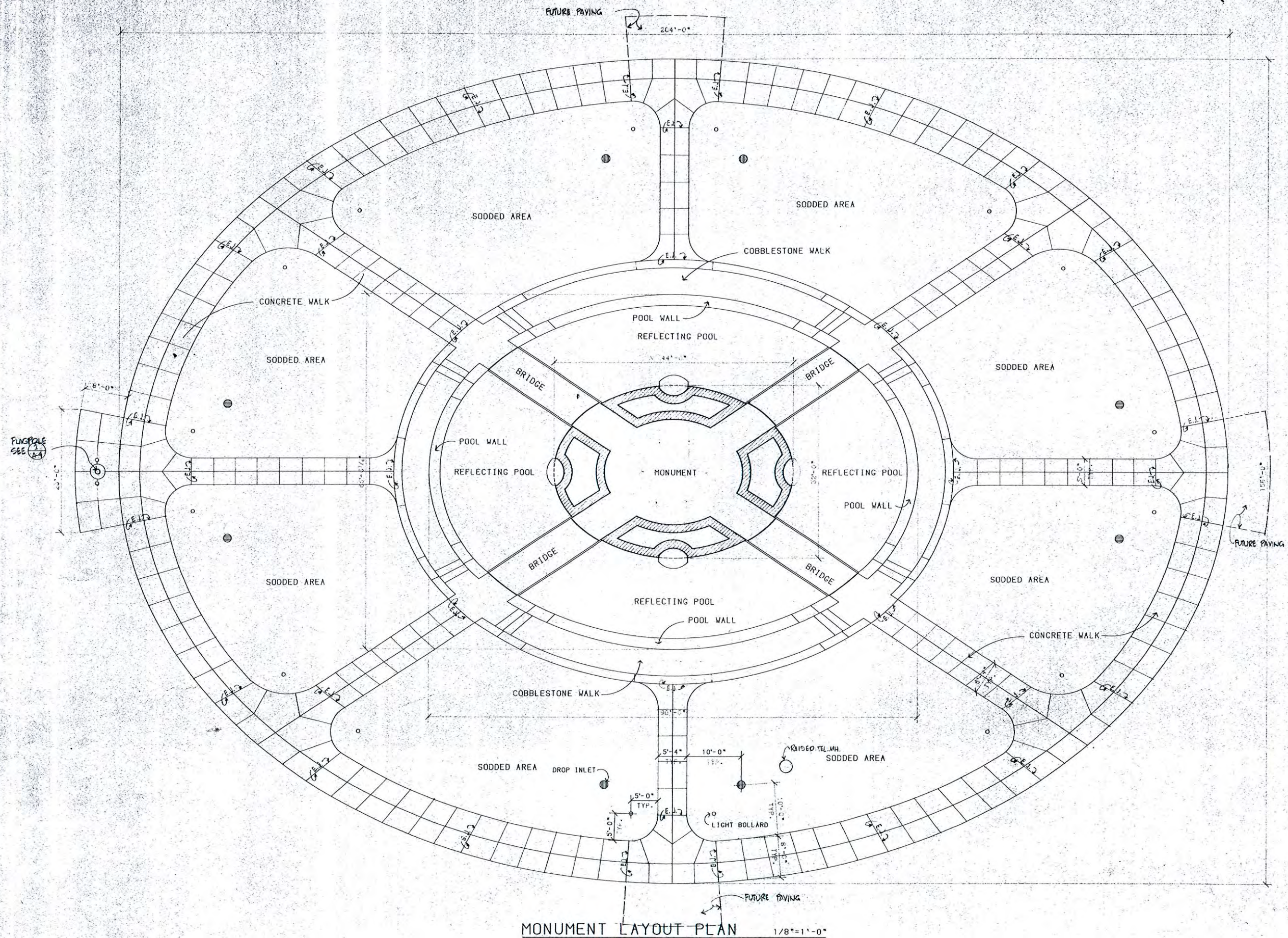
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P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241



Z.M.M. INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

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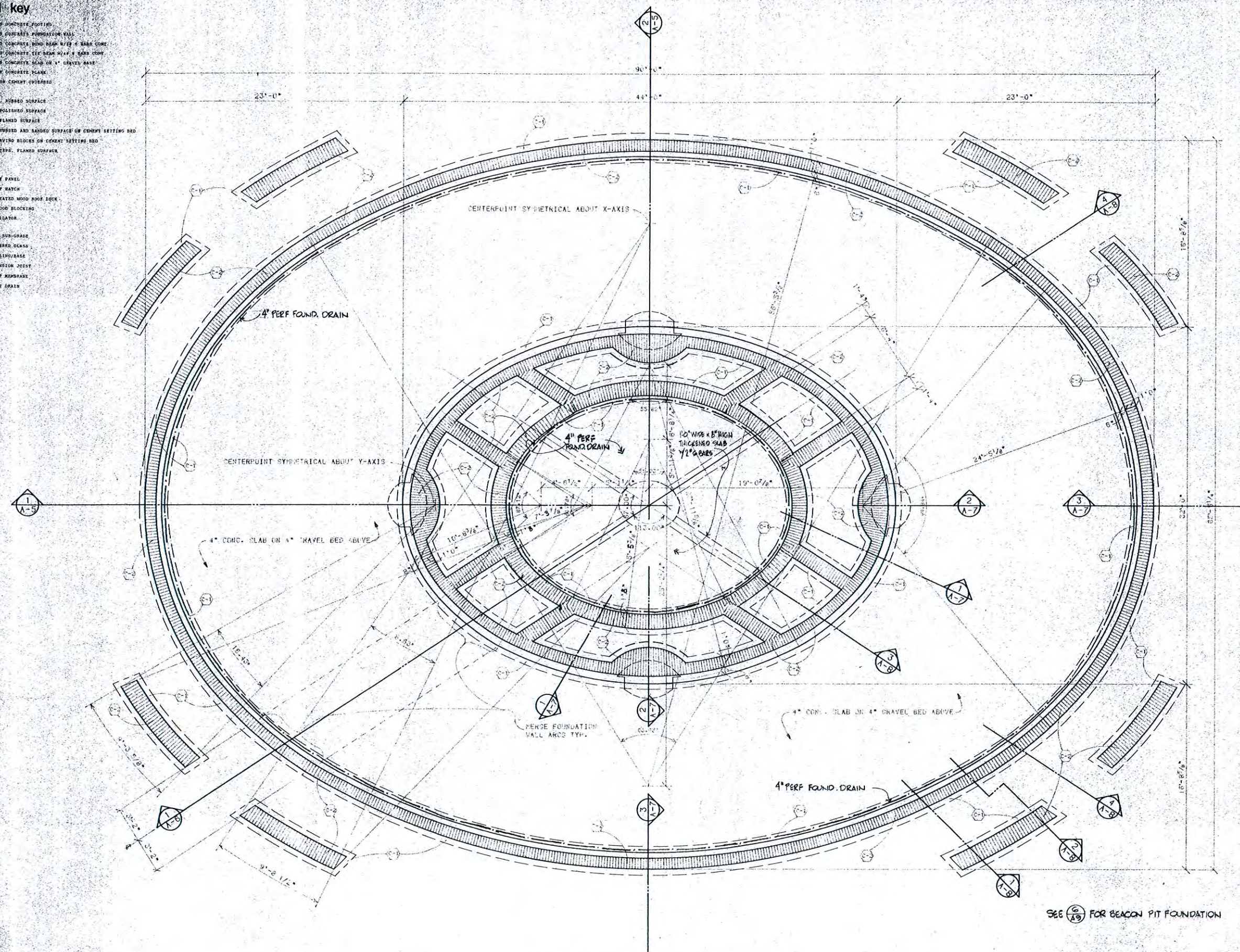
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A-1

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material key

- 1. REINFORCED CONCRETE FOOTING
- 2. REINFORCED CONCRETE FOUNDATION WALL
- 3. REINFORCED CONCRETE, 1000 BARS 1/2" x 8 BARS CORN
- 4. REINFORCED CONCRETE, 1100 BARS 1/2" x 8 BARS CORN
- 5. REINFORCED CONCRETE, 1200 BARS 1/2" x 8 BARS CORN
- 6. 4" VALLEY CONCRETE, PLANK
- 7. TREATED OR CONCRETE OVERBED
- 8. CEMENTS, RUBBED SURFACE
- 9. GRANITE, POLISHED SURFACE
- 10. GRANITE, FLAMED SURFACE
- 11. GRANITE, RUBBED AND SANDED SURFACE ON CONCRETE SETTING BED
- 12. GRANITE PAVING BLOCKS ON CONCRETE SETTING BED
- 13. GRANITE STAIR, FLAMED SURFACE
- 14. BRICK
- 15. METAL ROOF PANEL
- 16. METAL ROOF HATCH
- 17. 1" T&G TREATED WOOD ROOF DECK
- 18. TREATED WOOD BLOCKING
- 19. ROOF VENTILATOR
- 20. COMPACTED SUB-GRADE
- 21. 1/2" THICKER GLASS
- 22. METAL RAILING/BASE
- 23. 1/2" EXPANSION JOINT
- 24. WATERPROOF MEMBRANE
- 25. METAL SLOOT DRAIN



FOUNDATION PLAN 1/4"=1'-0"

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P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241



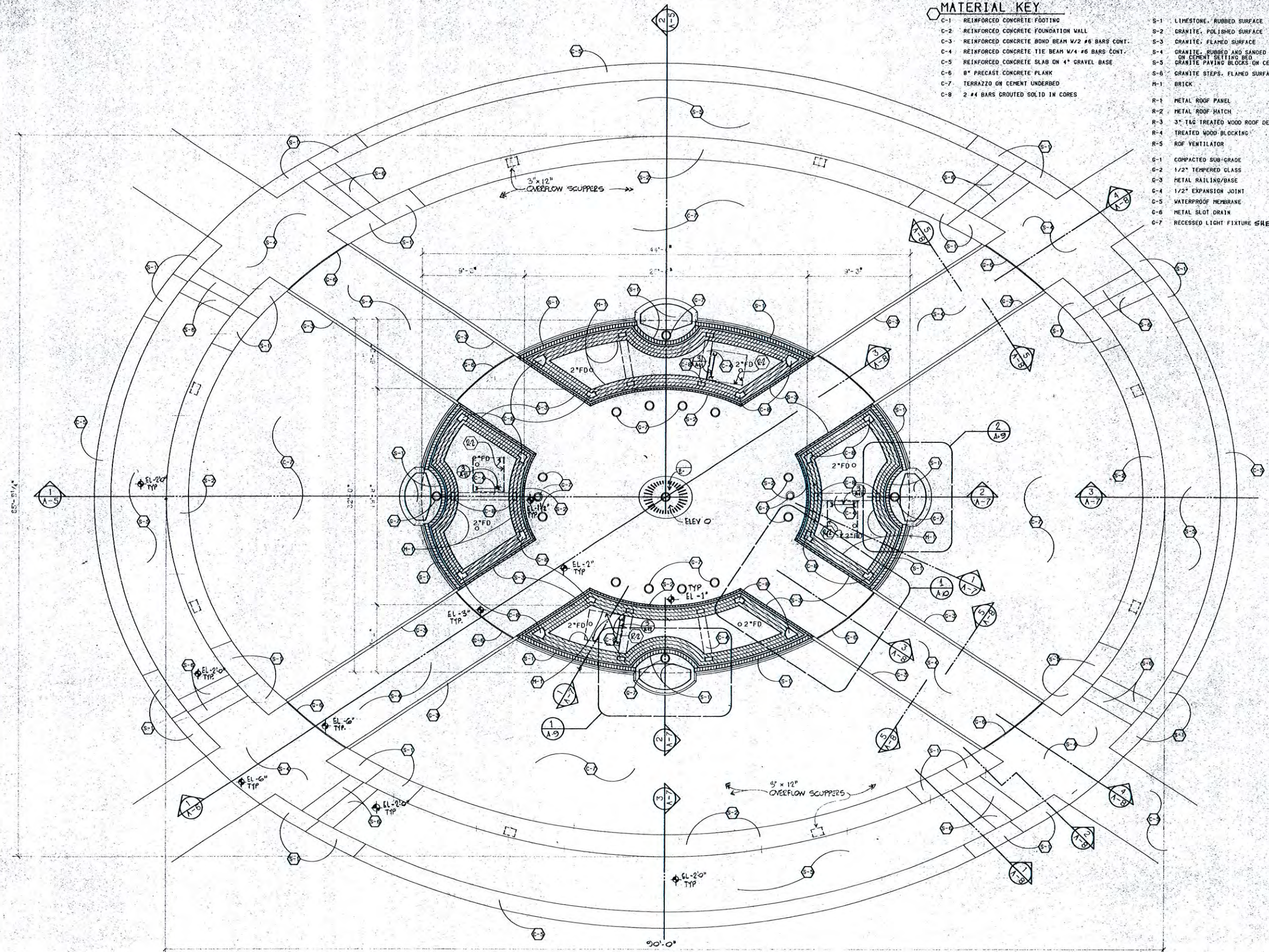
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ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

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- MATERIAL KEY**
- C-1 REINFORCED CONCRETE FOOTING
 - C-2 REINFORCED CONCRETE FOUNDATION WALL
 - C-3 REINFORCED CONCRETE BOND BEAM W/2 #6 BARS CONT.
 - C-4 REINFORCED CONCRETE TIE BEAM W/4 #6 BARS CONT.
 - C-5 REINFORCED CONCRETE SLAB ON 4\"/>
- S-1 LIMESTONE, RUBBED SURFACE
 - S-2 GRANITE, POLISHED SURFACE
 - S-3 GRANITE, FLAMED SURFACE
 - S-4 GRANITE, RUBBED AND SANDED SURFACE
 - S-5 GRANITE PAVING BLOCKS ON CEMENT-SETTING BED
 - S-6 GRANITE STEPS, FLAMED SURFACE
 - M-1 BRICK
 - R-1 METAL ROOF PANEL
 - R-2 METAL ROOF HATCH
 - R-3 3\"/>
- G-1 COMPACTED SUB-GRADE
 - G-2 1/2\"/>
 - G-3 METAL RAILING/BASE
 - G-4 1/2\"/>
 - G-5 WATERPROOF MEMBRANE
 - G-6 METAL SLOT DRAIN
 - G-7 RECESSED LIGHT FIXTURE SHELL

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P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241

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ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

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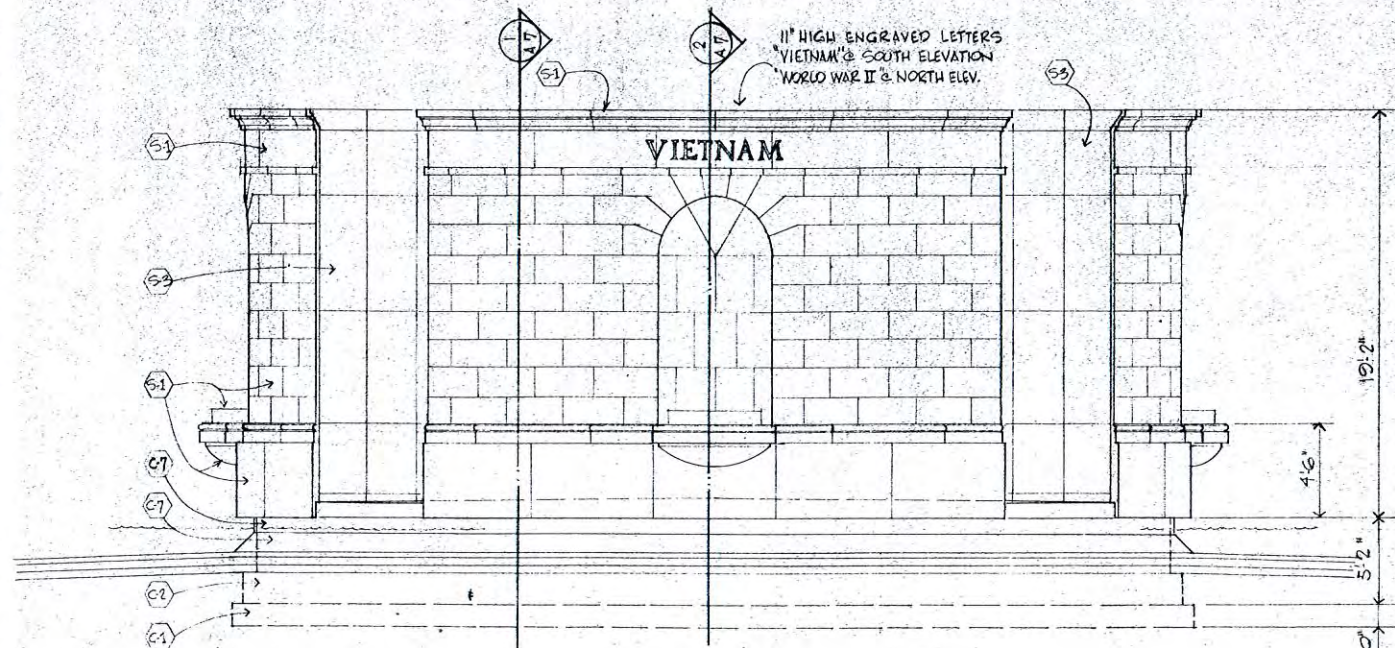
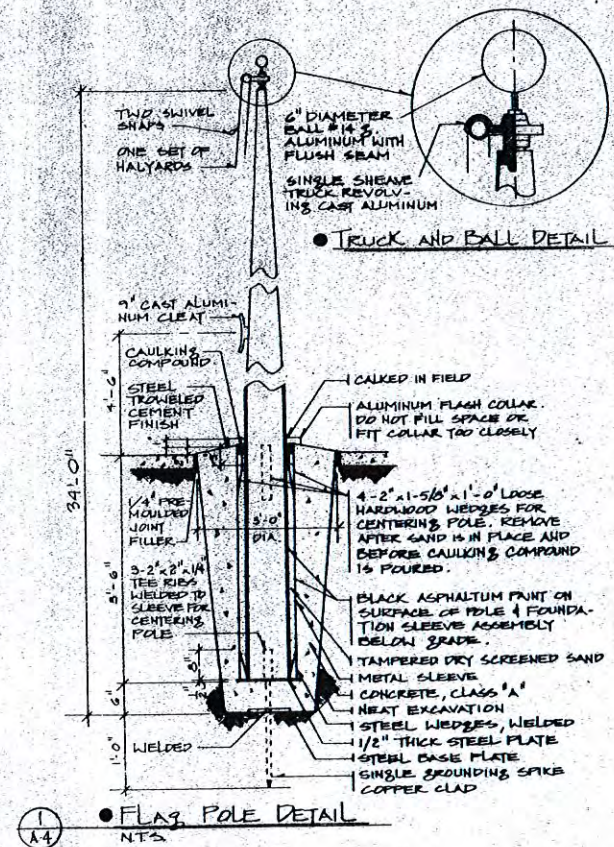
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ARCHITECT
No. 12345
EXPIRATION DATE 12/31/99

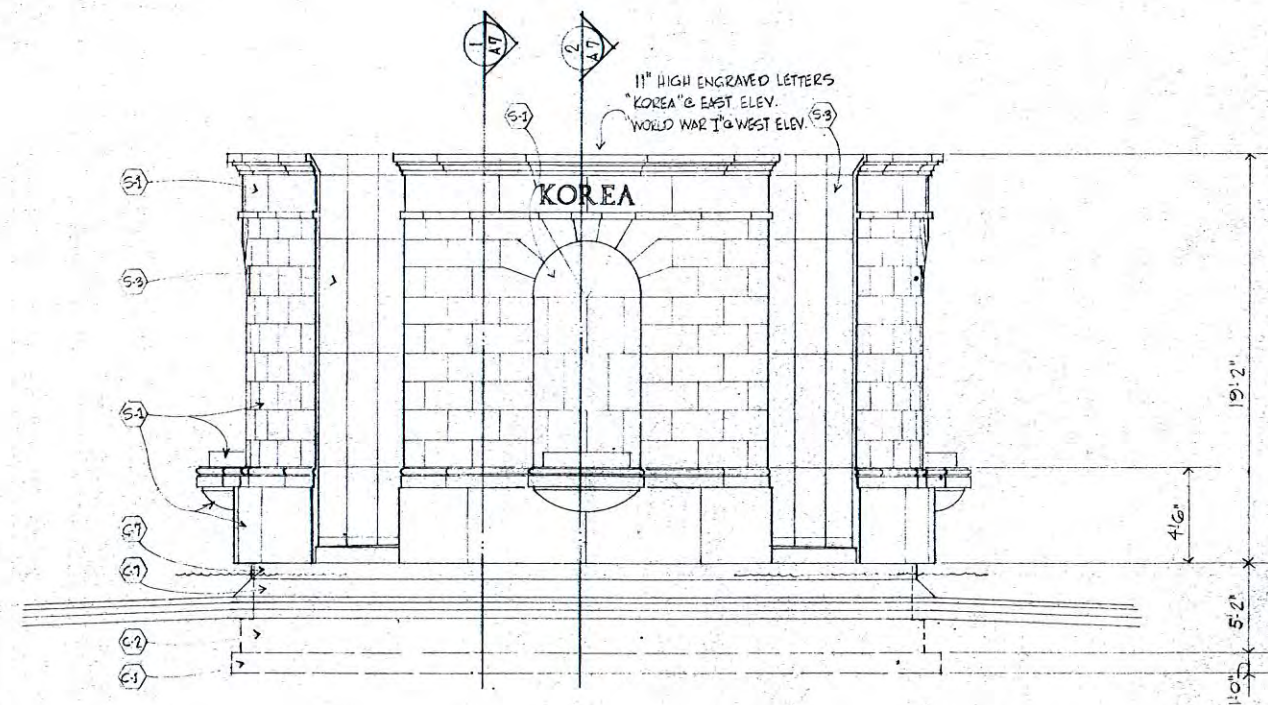
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MONUMENT PLAN 1/4"=1'-0"



NORTH & SOUTH ELEVATIONS SCALE 1/4" = 1'-0"



EAST & WEST ELEVATIONS SCALE 1/4" = 1'-0"

material key

- REINFORCED CONCRETE FOOTING
- REINFORCED CONCRETE FOUNDATION WALL
- REINFORCED CONCRETE BOND BEAM W/ 2" & BARS CONT.
- REINFORCED CONCRETE 21" BEAM W/ 4" & BARS CONT.
- REINFORCED CONCRETE SLAB ON 4" GRAVEL BASE
- 4" PRECAST CONCRETE PLANE
- TERRAZZO ON CEMENT UNDERSEED
- LIMESTONE, RUBBED SURFACE
- GRANITE, POLISHED SURFACE
- GRANITE, FLAMED SURFACE
- GRANITE, RUBBED AND SANDED SURFACE ON CEMENT SETTING BED
- GRANITE PAVING BLOCKS ON CEMENT SETTING BED
- GRANITE STEPS, FLAMED SURFACE
- BRICK
- METAL ROOF PANEL
- METAL ROOF HATCH
- 1" T&G TREATED WOOD ROOF DECK
- TREATED WOOD BLOCKING
- ROOF VENTILATOR
- COMPACTED SUB-GRADE
- 1/2" TEMPERED GLASS
- METAL RAILING/BASE
- 1/2" EXPANSION JOIST
- WATERPROOF MEMBRANE
- METAL SLOT DRAIN

REVISIONS

P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241



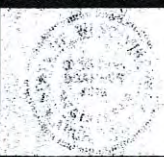
Z M M, INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

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CAPITOL COMPLEX

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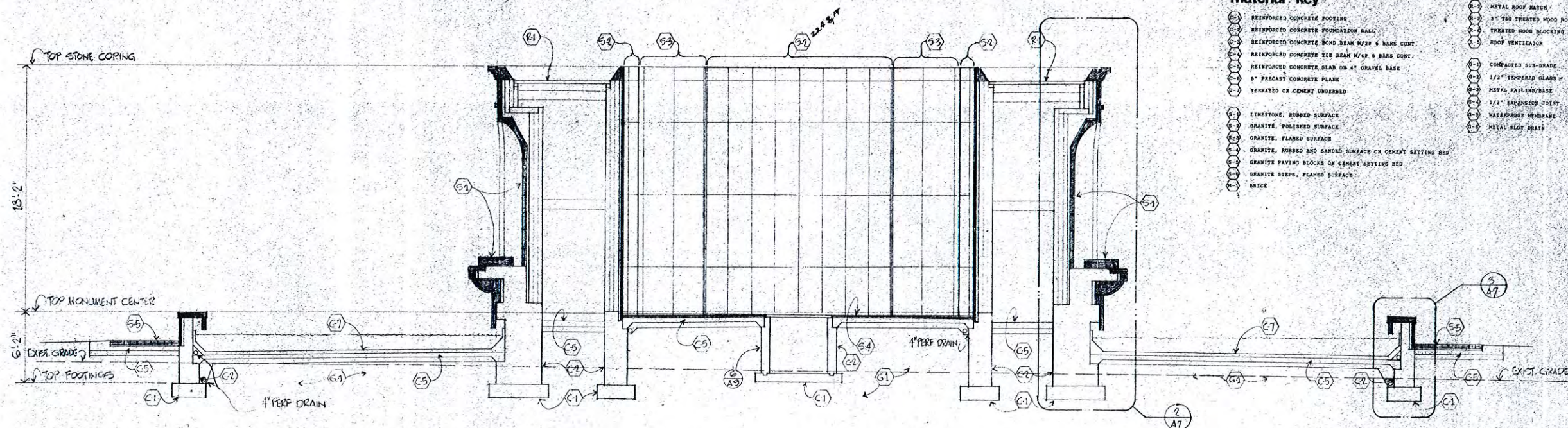
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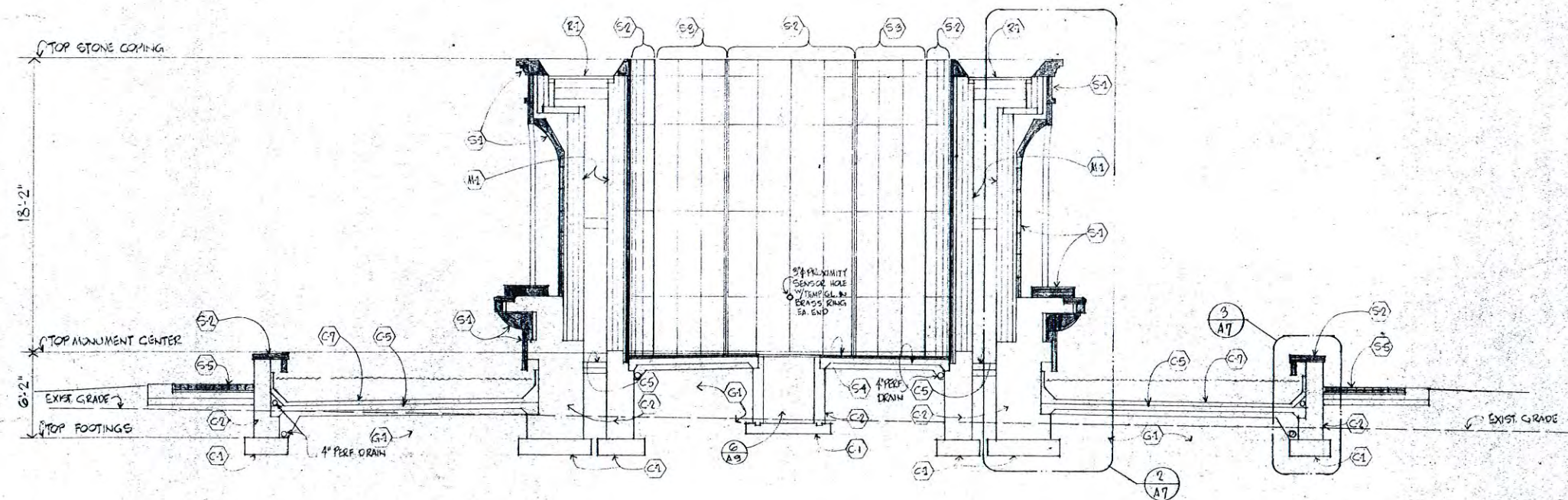
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1 BUILDING SECTION at MAJOR AXIS SCALE $\frac{1}{4}'' = 1' - 0''$



2 BUILDING SECTION at MINOR AXIS SCALE $\frac{1}{4}'' = 1' - 0''$

material key

- (R) REINFORCED CONCRETE ROOFING
- (C) REINFORCED CONCRETE FOUNDATION WALL
- (S) REINFORCED CONCRETE BOND BEAM W/2# 6 BARS CONT.
- (S) REINFORCED CONCRETE TIE BEAM W/4# 6 BARS CONT.
- (S) REINFORCED CONCRETE SLAB ON 4\" GRAVEL BASE
- (S) 8\" PRECAST CONCRETE PLANK
- (S) TERRAZZO OR CEMENT UNDERBED
- (L) LIMESTONE, RUBBED SURFACE
- (G) GRANITE, POLISHED SURFACE
- (G) GRANITE, FLAMED SURFACE
- (G) GRANITE, RUBBED AND SABBED SURFACE ON CEMENT SETTING BED
- (G) GRANITE PAVING BLOCKS ON CEMENT SETTING BED
- (G) GRANITE STEPS, FLAMED SURFACE
- (B) BRICK
- (M) METAL ROOF PANEL
- (M) METAL ROOF HATCH
- (D) 3\" T&G TREATED WOOD ROOF DECK
- (B) TREATED WOOD BLOCKING
- (V) ROOF VENTILATOR
- (S) COATED SUB-GRADE
- (G) 1/2\" T&G GLASS
- (M) METAL RAILING/RAIL
- (P) 1/2\" EXPANDED POLYSTYRENE
- (M) WATERPROOF MEMBRANE
- (M) METAL SLOE PLATE

REVISIONS

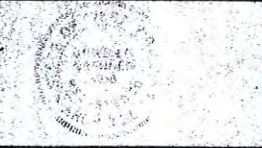
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1640 HANSFORD ST.
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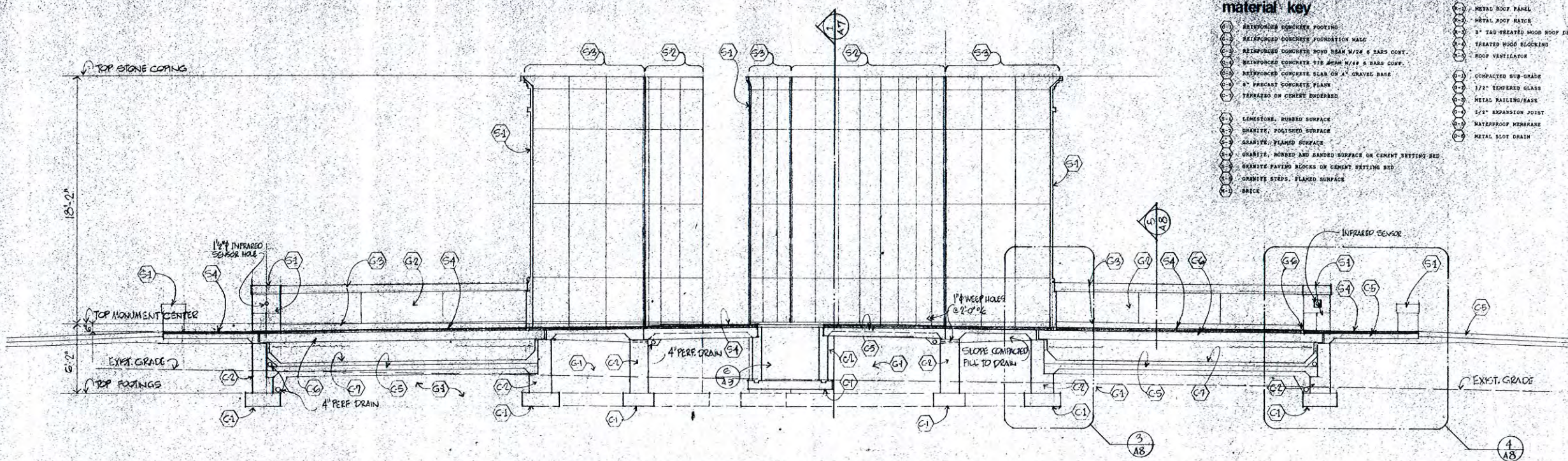
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ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

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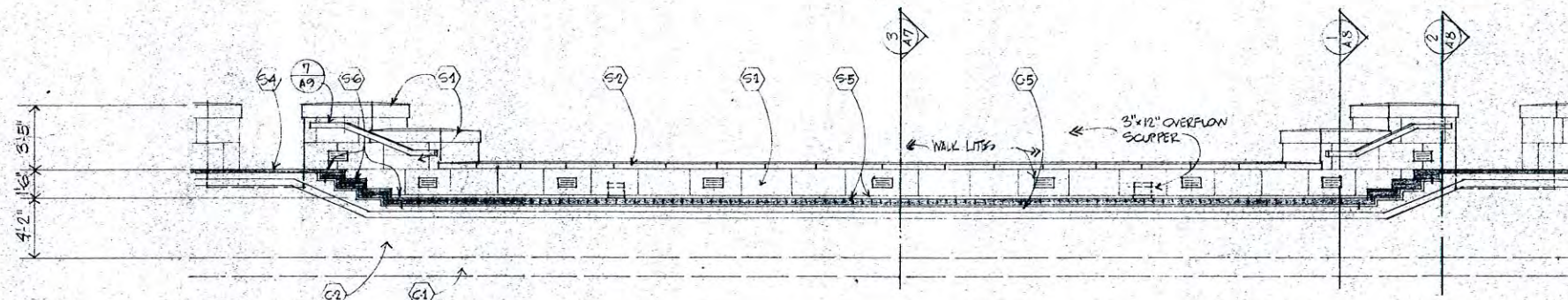
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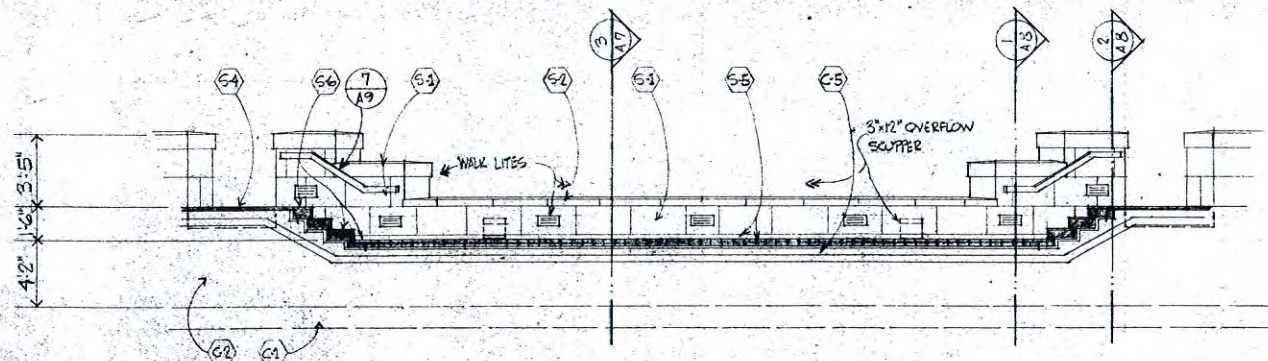
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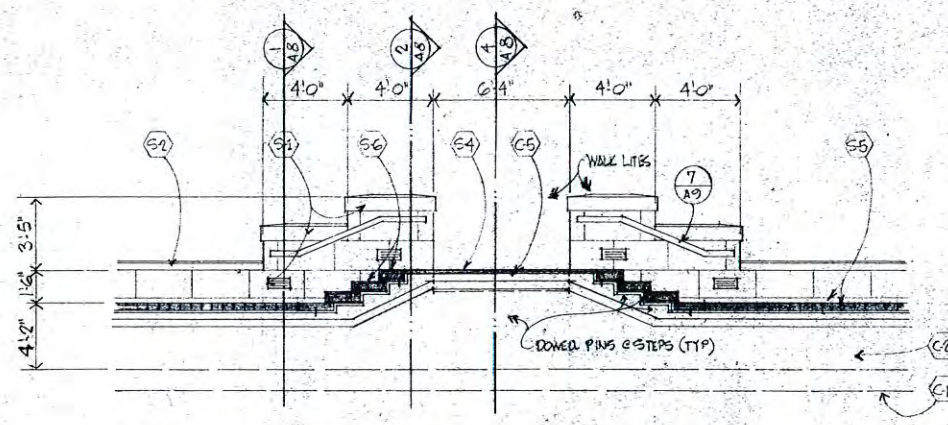
1 BUILDING SECTION at DIAGONAL AXIS SCALE 1/4" = 1'-0"



NORTH & SOUTH POOL WALL ELEVATIONS SCALE 1/4" = 1'-0"
JOINT PATTERN SIMILAR ON SIDE FACING POOL



EAST & WEST POOL WALL ELEVATIONS SCALE 1/4" = 1'-0"
JOINT PATTERN SIMILAR ON SIDE FACING POOL



BRIDGE ABUTMENT ELEVATIONS SCALE 1/4" = 1'-0"
JOINT PATTERN SIMILAR ON SIDE FACING POOL

material key

- (C1) REINFORCED CONCRETE FOOTING
- (C2) REINFORCED CONCRETE FOUNDATION WALL
- (C3) REINFORCED CONCRETE ROOF BEAM W/24\"/>
- (C4) REINFORCED CONCRETE 21\"/>
- (C5) REINFORCED CONCRETE SLAB ON 4\"/>
- (C6) 6\"/>
- (C7) TERRAZZO OR CEMENT DOORSEAL
- (C8) Limestone, honed surface
- (C9) Granite, polished surface
- (C10) Granite, flamed surface
- (C11) Granite, honed and sanded surface on cement setting bed
- (C12) Granite paving blocks on cement setting bed
- (C13) Granite steps, flamed surface
- (C14) Brick
- (M1) METAL ROOF PANEL
- (M2) METAL ROOF RATCH
- (M3) 3\"/>
- (M4) TREATED WOOD BLOCKING
- (M5) ROOF VENTILATOR
- (M6) COMPACTED SUB-GRADE
- (M7) 1/2\"/>
- (M8) METAL RAILING/BASE
- (M9) 3/4\"/>
- (M10) WATERPROOF MEMBRANE
- (M11) METAL SLOT DRAIN

REVISIONS

P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241

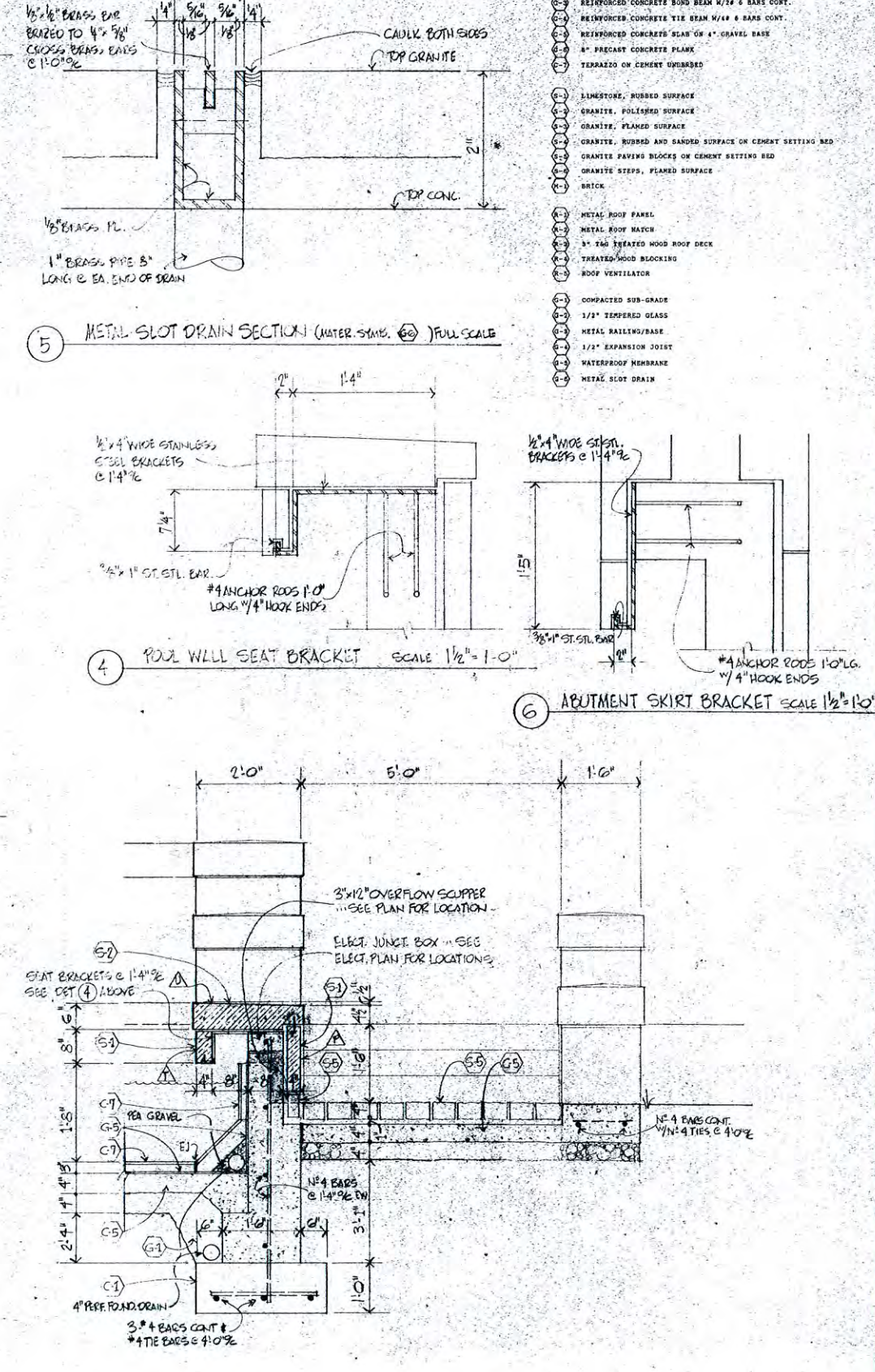
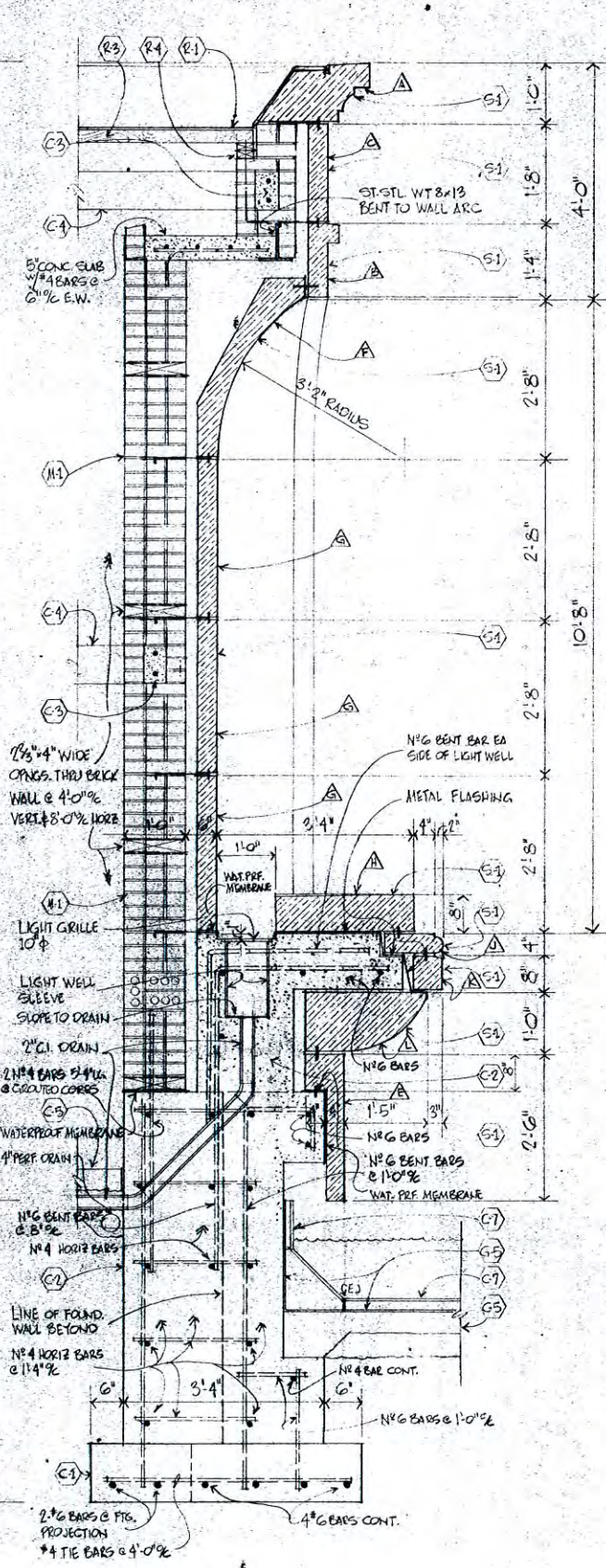
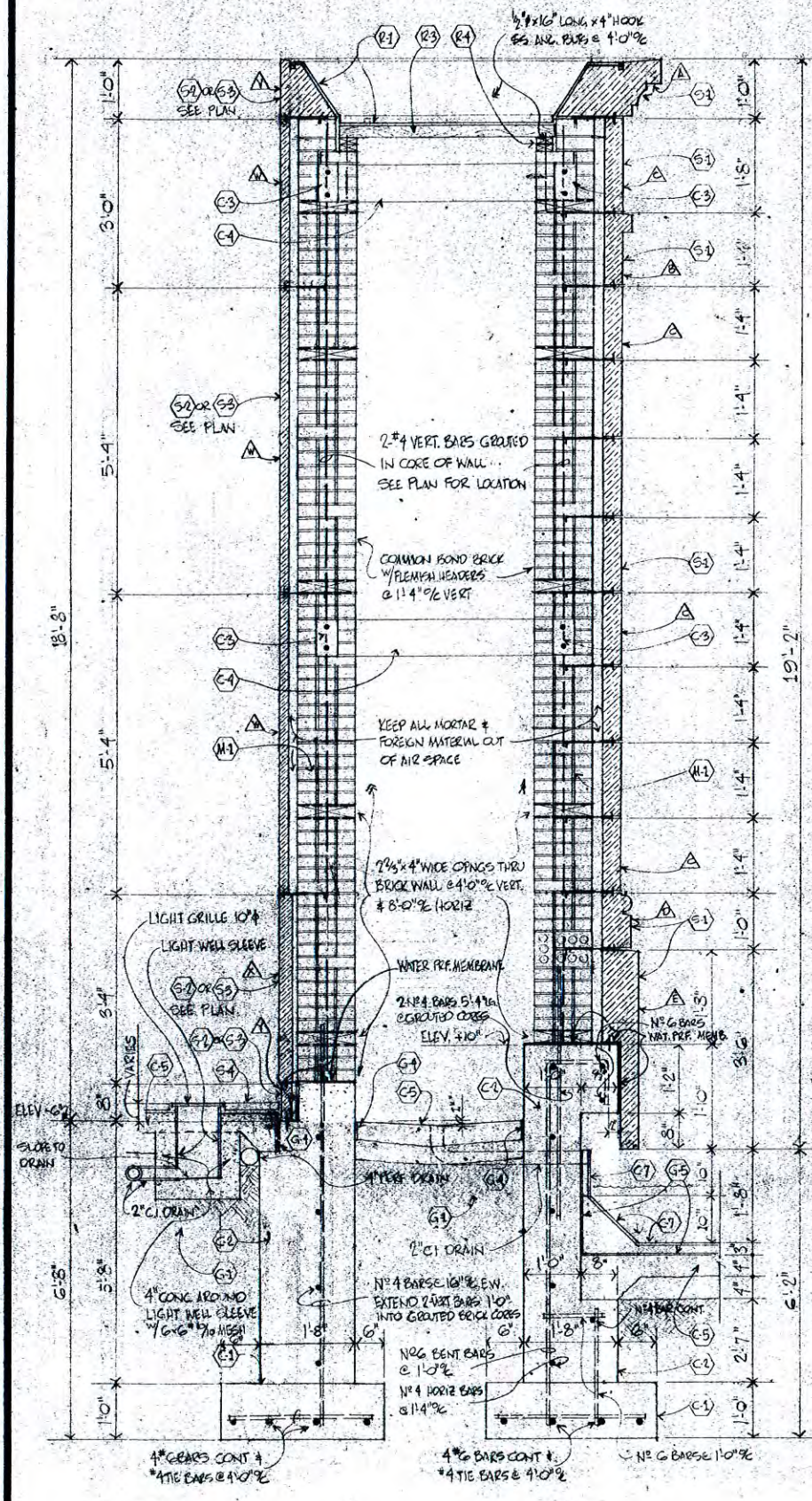


Z M M, INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

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- (1) REINFORCED CONCRETE FOOTING
 - (2) REINFORCED CONCRETE FOUNDATION WALL
 - (3) REINFORCED CONCRETE BOND BEAM W/ 4" x 6 BARS CONT.
 - (4) REINFORCED CONCRETE TIE BEAM W/ 4" x 6 BARS CONT.
 - (5) REINFORCED CONCRETE SLAB ON 4" GRAVEL BASE
 - (6) 8" PRECAST CONCRETE PLANK
 - (7) TERRAZZO ON CEMENT UNBARRER
 - (8) LIMESTONE, RUBBED SURFACE
 - (9) GRANITE, POLISHED SURFACE
 - (10) GRANITE, FLAMED SURFACE
 - (11) GRANITE, RUBBED AND SANDED SURFACE ON CEMENT SETTING BED
 - (12) GRANITE PAVING BLOCKS ON CEMENT SETTING BED
 - (13) GRANITE STEPS, FLAMED SURFACE
 - (14) BRICK
 - (15) METAL ROOF PANEL
 - (16) METAL ROOF MATCH
 - (17) 3" x 6" TREATED WOOD ROOF DECK
 - (18) TREATED WOOD BLOCKING
 - (19) ROOF VENTILATOR
 - (20) COMPACTED SUB-GRADE
 - (21) 1/2" TEMPLER GLASS
 - (22) METAL RAILING/BASE
 - (23) 1/2" EXPANSION JOIST
 - (24) WATERPROOF MEMBRANE
 - (25) METAL SLOT DRAIN

REVISIONS

P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241

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Z M M, INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

WEST VIRGINIA VETERANS MEMORIAL

CAPITOL COMPLEX

CHARLESTON, WEST VIRGINIA

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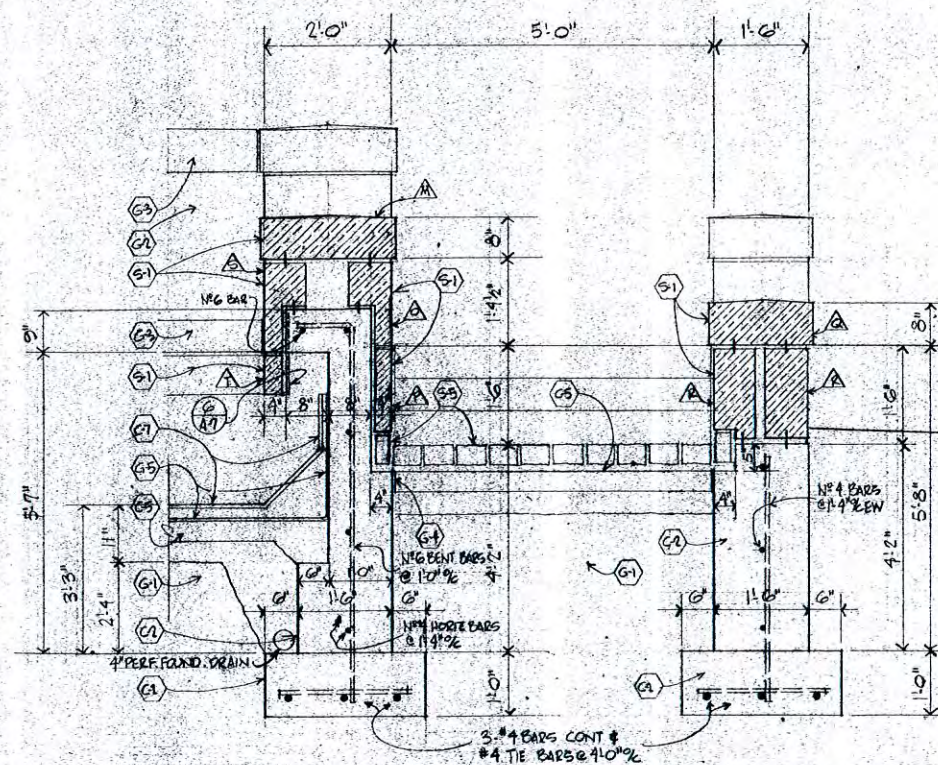
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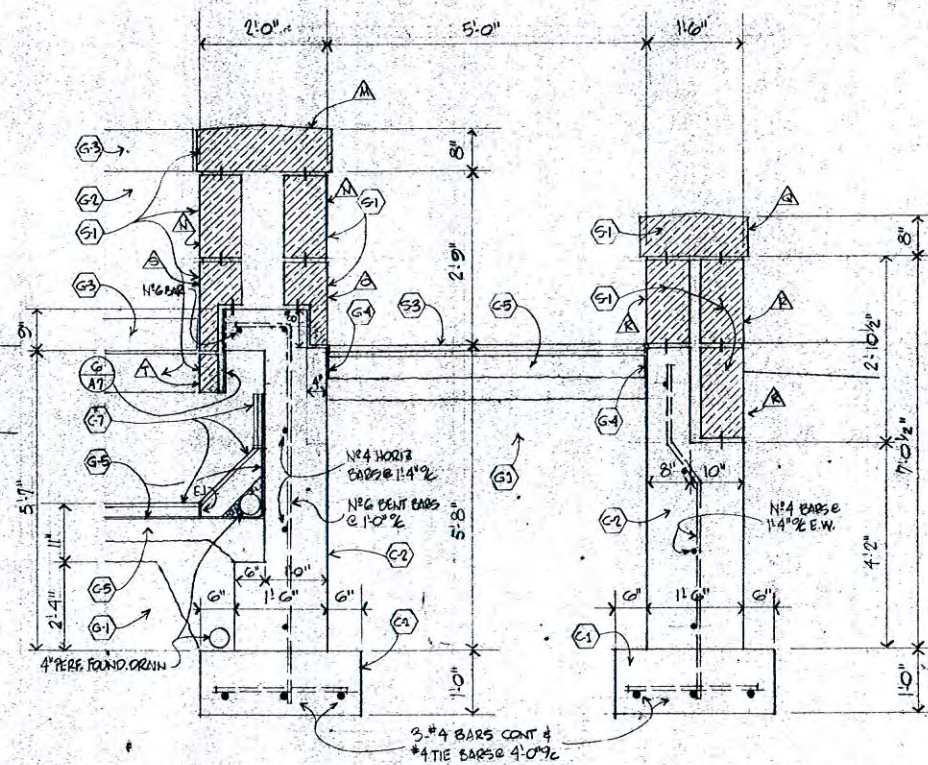
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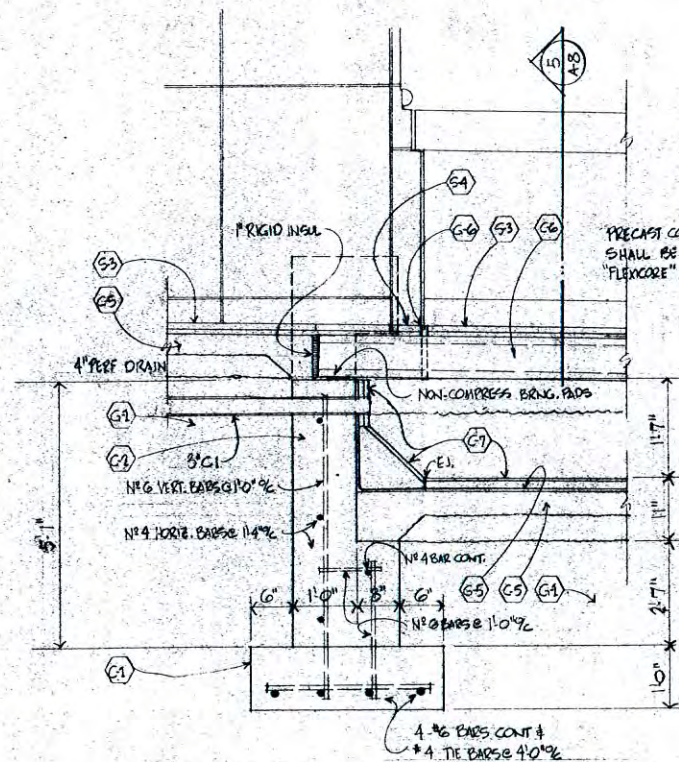
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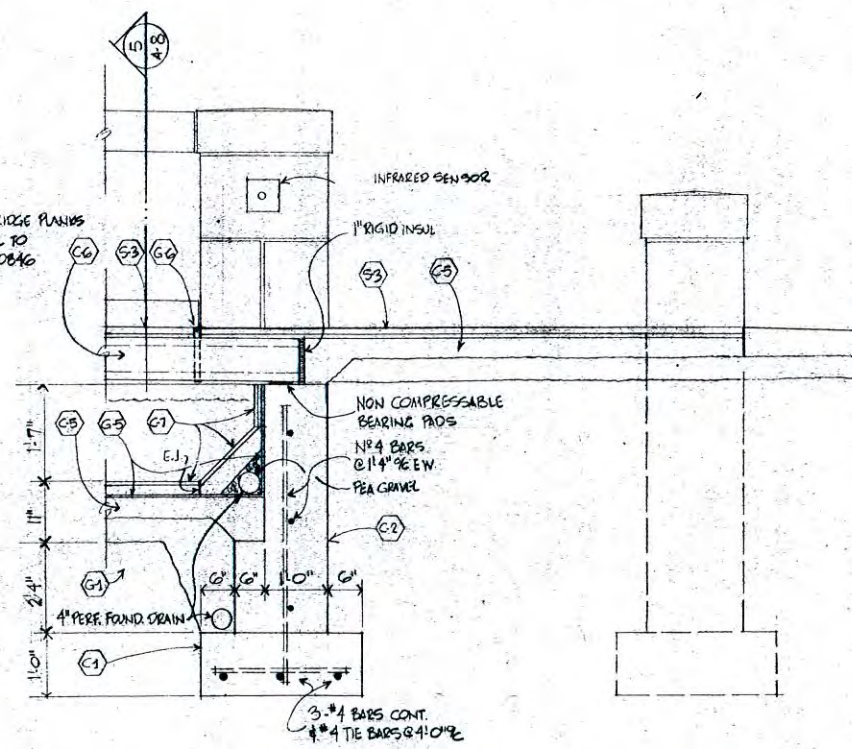
1 SECTION at LOW BRIDGE ABUTMENT WALL SCALE $\frac{3}{4}'' = 1'-0''$



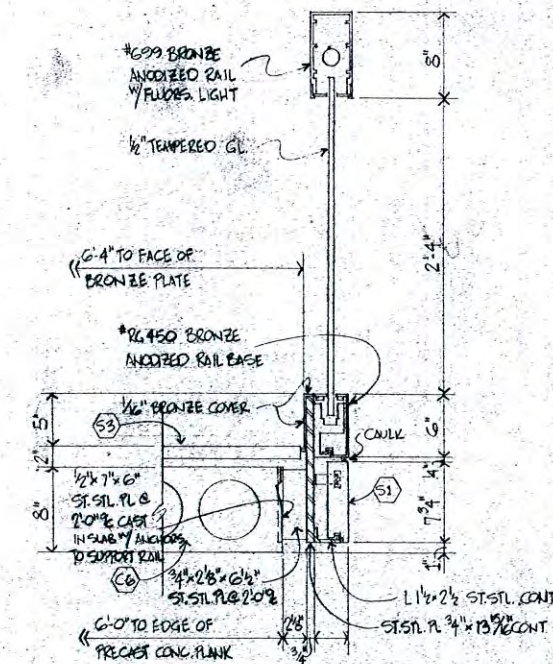
2 SECTION at HIGH BRIDGE ABUTMENT WALL SCALE $\frac{3}{4}'' = 1'-0''$



3 BRIDGE SUPPORT at MONUMENT SCALE $\frac{3}{4}'' = 1'-0''$



4 BRIDGE SUPPORT at POOL WALL SCALE $\frac{3}{4}'' = 1'-0''$



5 BRIDGE RAIL SECTION SCALE $\frac{1}{2}'' = 1'-0''$

material key

- (G1) REINFORCED CONCRETE FOOTING
- (G2) REINFORCED CONCRETE FOUNDATION WALL
- (G3) REINFORCED CONCRETE BOND BEAM W/2# 6 BARS CONT.
- (G4) REINFORCED CONCRETE TIE BEAM W/2# 6 BARS CONT.
- (G5) REINFORCED CONCRETE SLAB ON 4" GRAVEL BASE
- (G6) 8" PRECAST CONCRETE PLANK
- (G7) TERRAZZO OR CONCRETE UNDERLAY
- (G8) LINDSTONE, RUBBED SURFACE
- (G9) GRANITE, POLISHED SURFACE
- (G10) GRANITE, FLAMED SURFACE
- (G11) GRANITE, RUBBED AND SANDED SURFACE ON CEMENT SETTING BED
- (G12) GRANITE PAVING BLOCKS ON CEMENT SETTING BED
- (G13) GRANITE STEPS, FLAMED SURFACE
- (G14) BRICK
- (G15) METAL ROOF PANEL
- (G16) METAL ROOF HATCH
- (G17) 3" T&G TREATED WOOD ROOF DECK
- (G18) TREATED WOOD BLOCKING
- (G19) ROOF VENTILATOR
- (G20) COMPACTED SUB-GRADE
- (G21) 1/2" TAPERED GLASS
- (G22) METAL RAILING/BASE
- (G23) 4/8" EXPANSION JOIST
- (G24) WATERPROOF MEMBRANE
- (G25) METAL SLOT DRAIN

P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241



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ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
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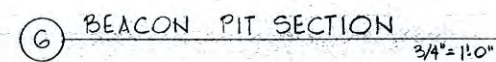
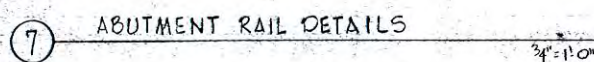
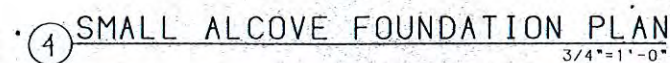
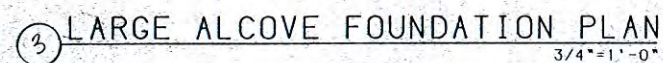
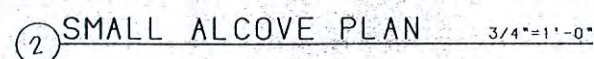
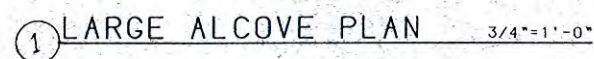
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CHARLESTON W.V. 25311
343-7241



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ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
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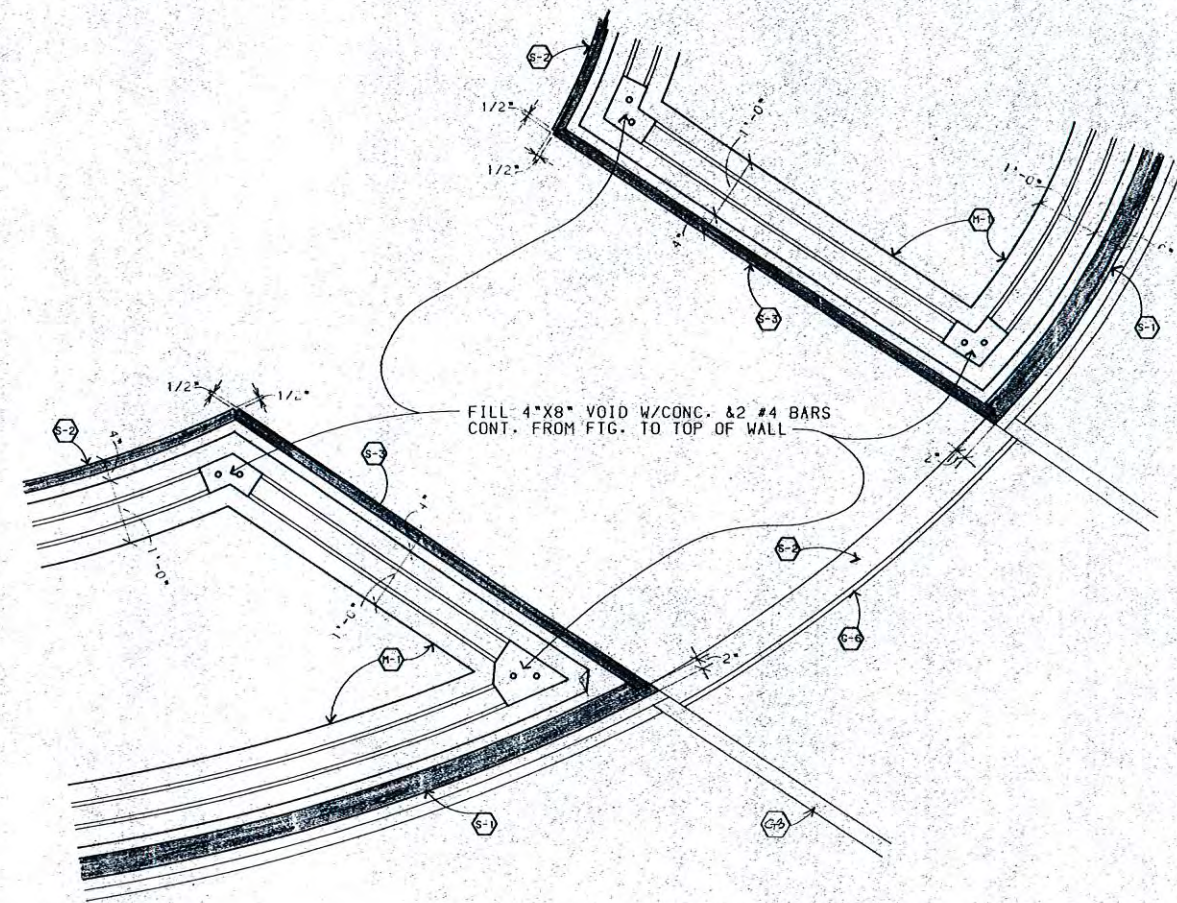
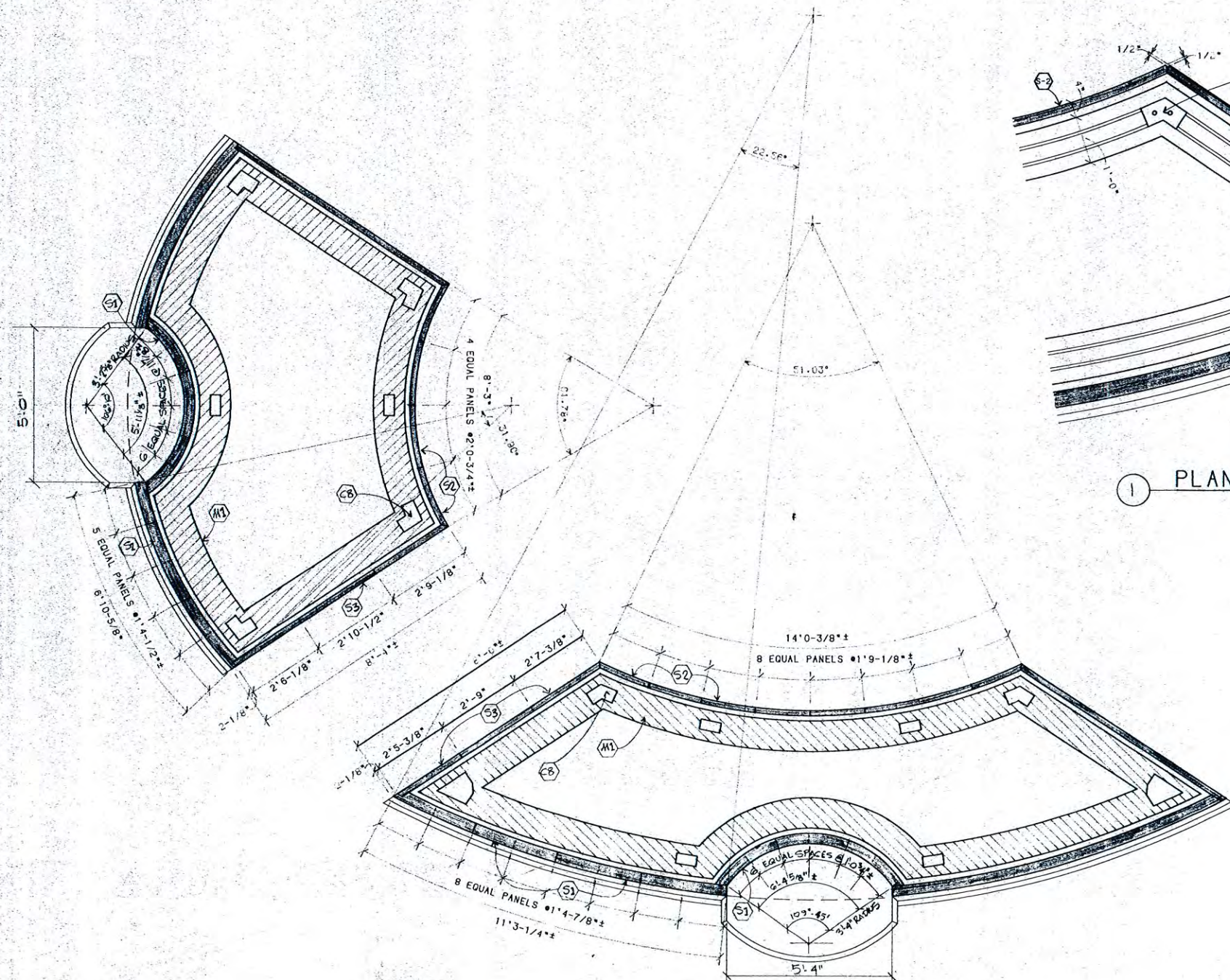
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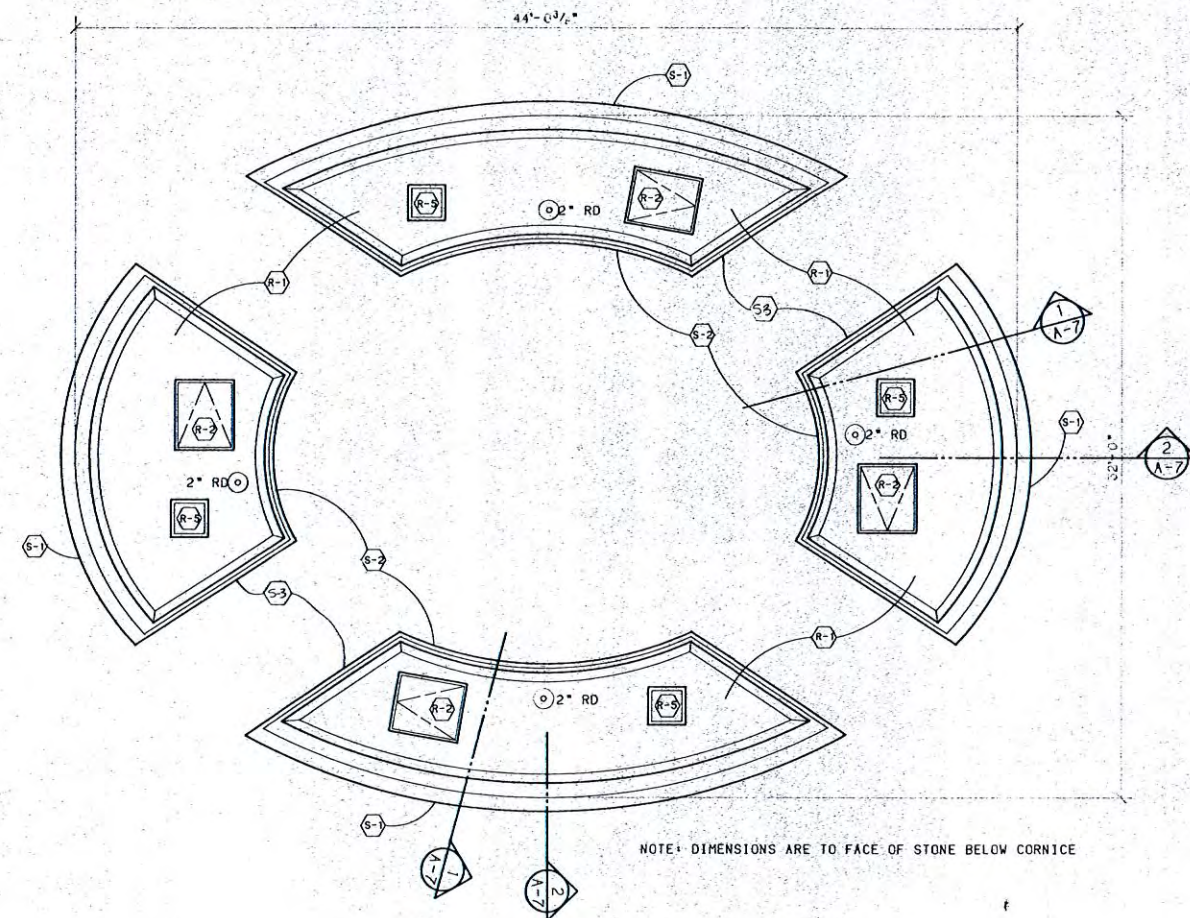
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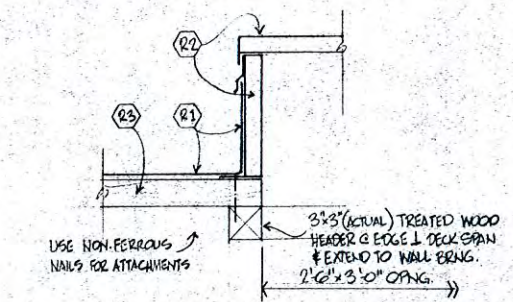
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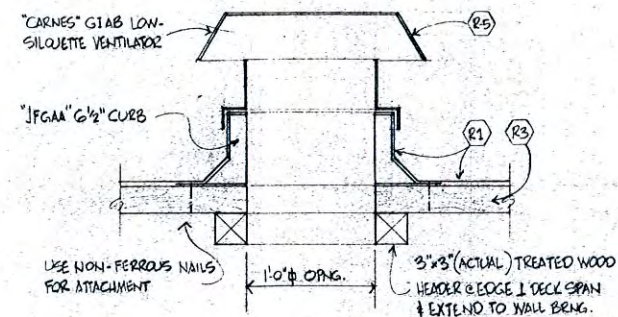
— FILL 4"X8" VOID W/CONC. & 2 #4 BARS
CONT. FROM FTG. TO TOP OF WALL —



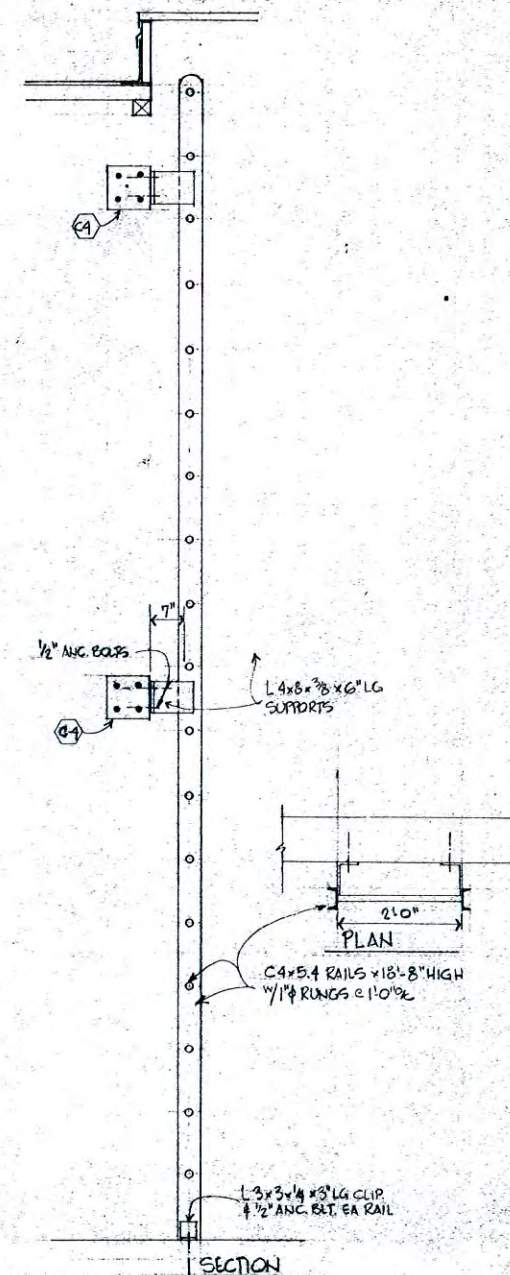
ROOF PLAN 1/4" = 1'-0"
ROOF DRAINS TO BE JOEM #2202-3-T



1 ROOF HATCH CURB SECTION SCALE 1/2" = 1'-0"



2 ROOF VENTILATOR DETAIL SCALE 1/2" = 1'-0"



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

material key

- (R-1) REINFORCED CONCRETE FOOTING
- (R-2) REINFORCED CONCRETE FOUNDATION WALL
- (R-3) REINFORCED CONCRETE BOND BEAM W/12 6 BARS CONT.
- (R-4) REINFORCED CONCRETE TIE BEAM W/12 6 BARS CONT.
- (R-5) REINFORCED CONCRETE SLAB ON 4" GRAVEL BASE
- (R-6) 8" PRECAST CONCRETE PLANK
- (R-7) TERRAZZO OR CEMENT UNDERBED
- (S-1) LIMESTONE, RUBBER SURFACE
- (S-2) GRANITE, POLISHED SURFACE
- (S-3) GRANITE, FLAMED SURFACE
- (S-4) GRANITE, RUBBED AND SANDED SURFACE ON CEMENT SETTING BED
- (S-5) GRANITE PAVING BLOCKS ON CEMENT SETTING BED
- (S-6) GRANITE STEPS, FLAMED SURFACE
- (S-7) BRICK
- (M-1) METAL ROOF PANEL
- (M-2) METAL ROOF HATCH
- (M-3) 3" T&G TREATED WOOD ROOF DECK
- (M-4) TREATED WOOD BLOCKING
- (M-5) ROOF VENTILATOR
- (C-1) COMPACTED SUB-GRADE
- (C-2) 1/2" TEMPERED GLASS
- (C-3) METAL RAILING/BASE
- (C-4) 1/2" EXPANSION JOINT
- (C-5) WATERPROOF MEMBRANE
- (C-6) METAL SLOT DRAIN

REVISIONS

P. JOSEPH MULLINS, DESIGNER
1640 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241



Z M M, INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
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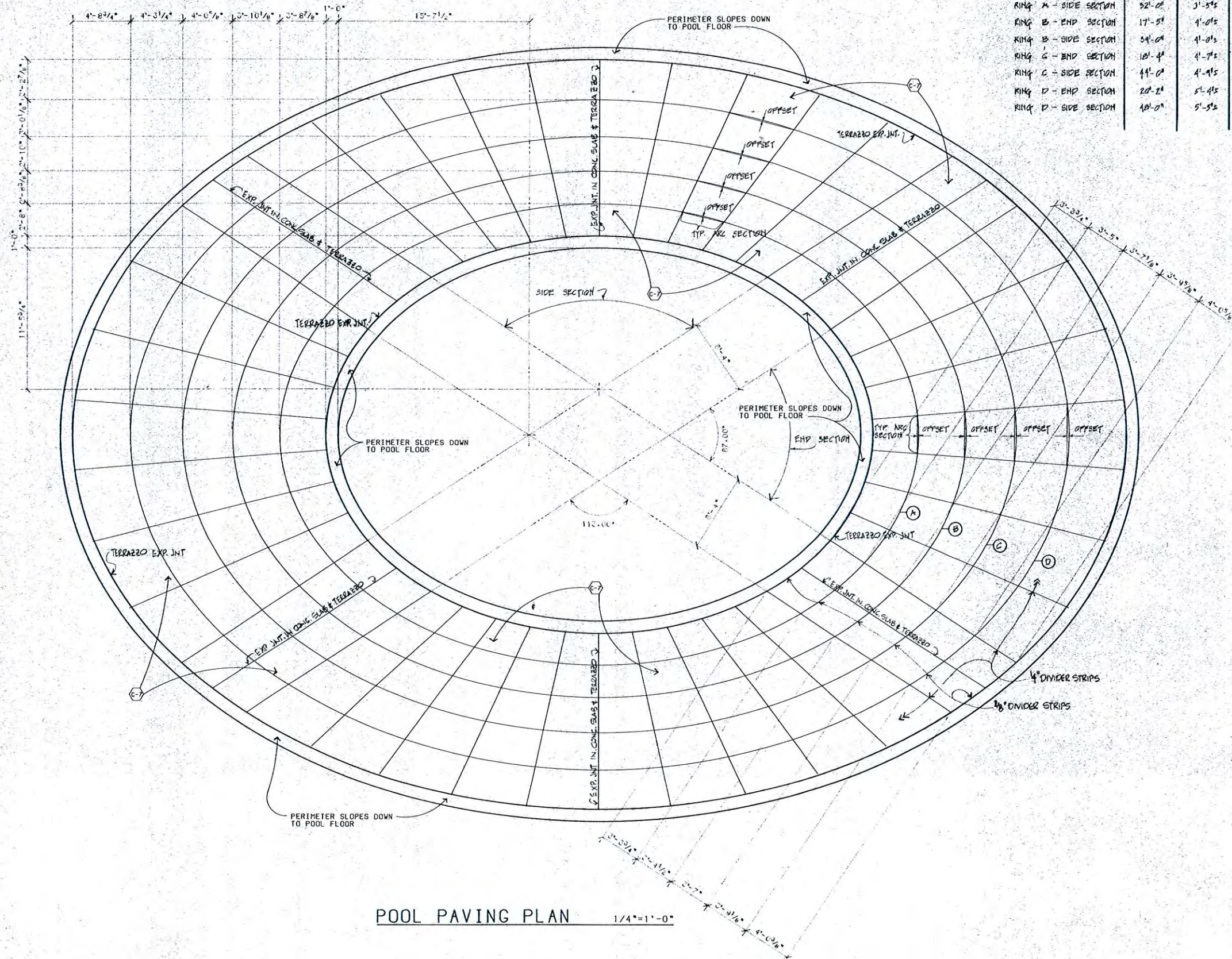
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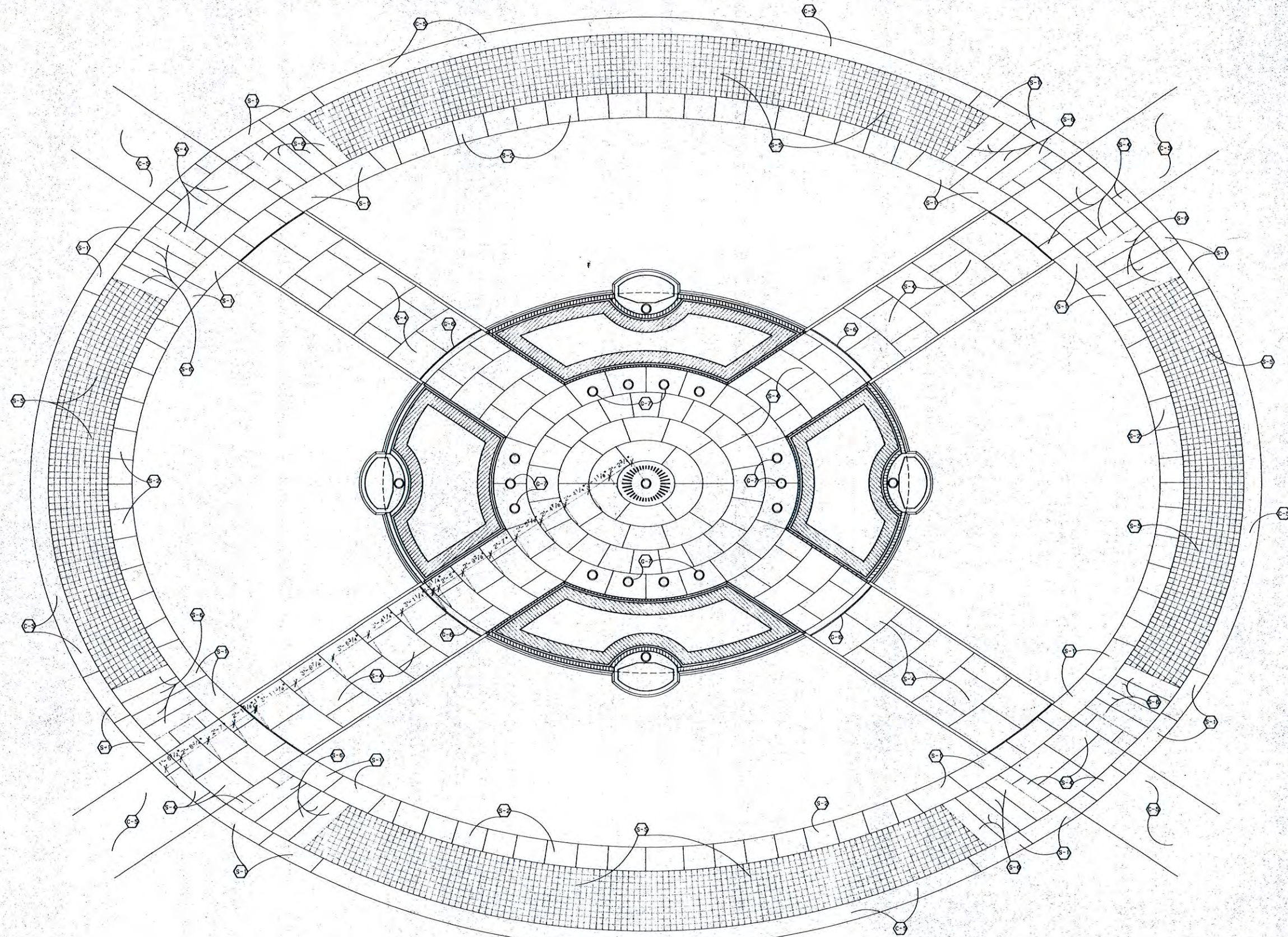
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CONCENTRIC ELLIPSE DATA			
ARC SECTION	RADIUS	LENGTH	OFFSET
RING A - END SECTION	10'-1"	3'-5 1/2"	1 1/4"
RING A - SIDE SECTION	32'-0"	3'-5 1/5"	1"
RING B - END SECTION	17'-5"	4'-0 1/2"	1 1/2"
RING B - SIDE SECTION	39'-0"	4'-0 1/3"	1"
RING C - END SECTION	10'-4"	4'-7 1/2"	1 3/4"
RING C - SIDE SECTION	44'-0"	4'-9 1/5"	1 1/2"
RING D - END SECTION	20'-2"	5'-4 1/5"	2"
RING D - SIDE SECTION	40'-0"	5'-5 1/2"	1 1/2"



POOL PAVING PLAN 1/4"=1'-0"



MONUMENT PAVING PLAN 1/4"=1'-0"

REVISIONS

P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241



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ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
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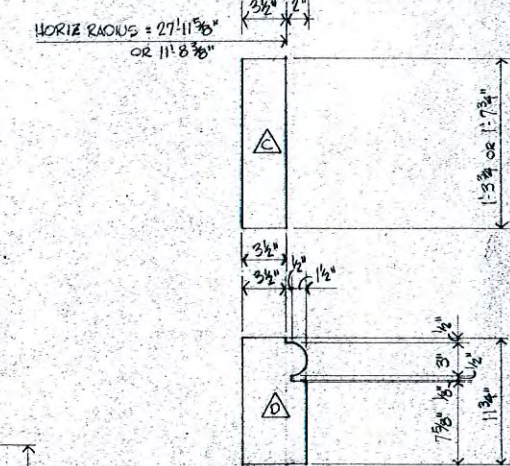
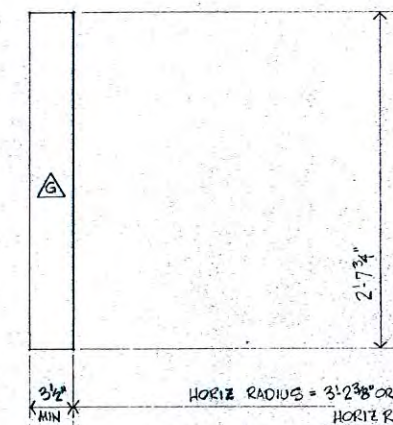
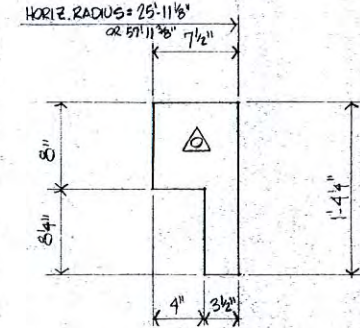
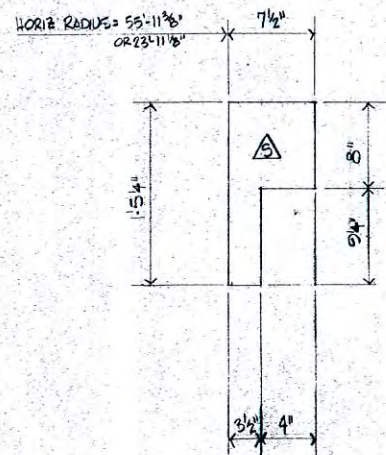
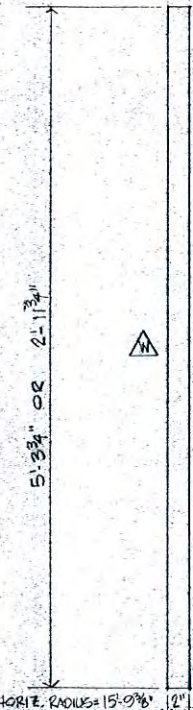
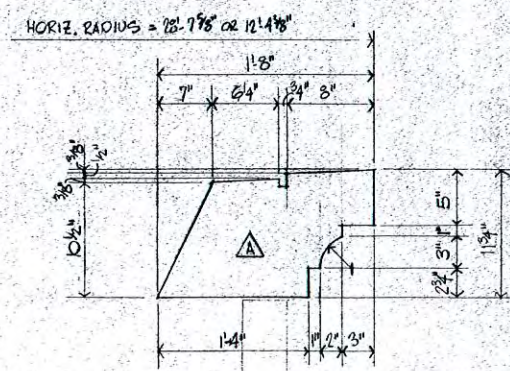
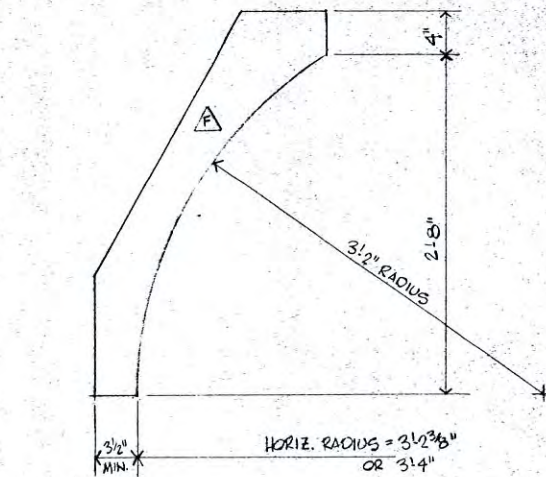
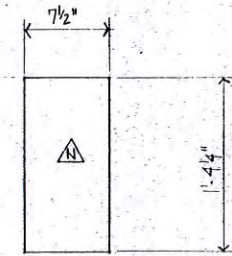
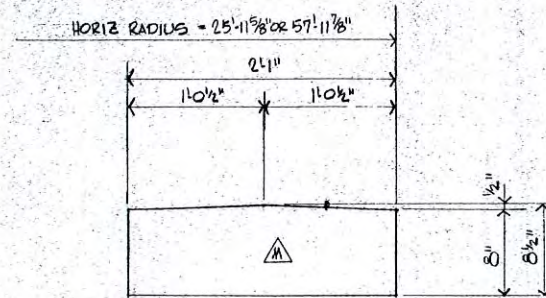
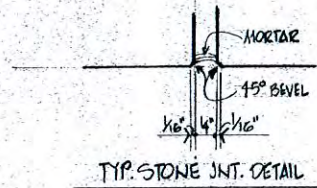
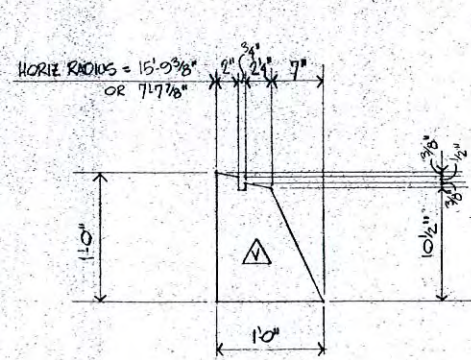
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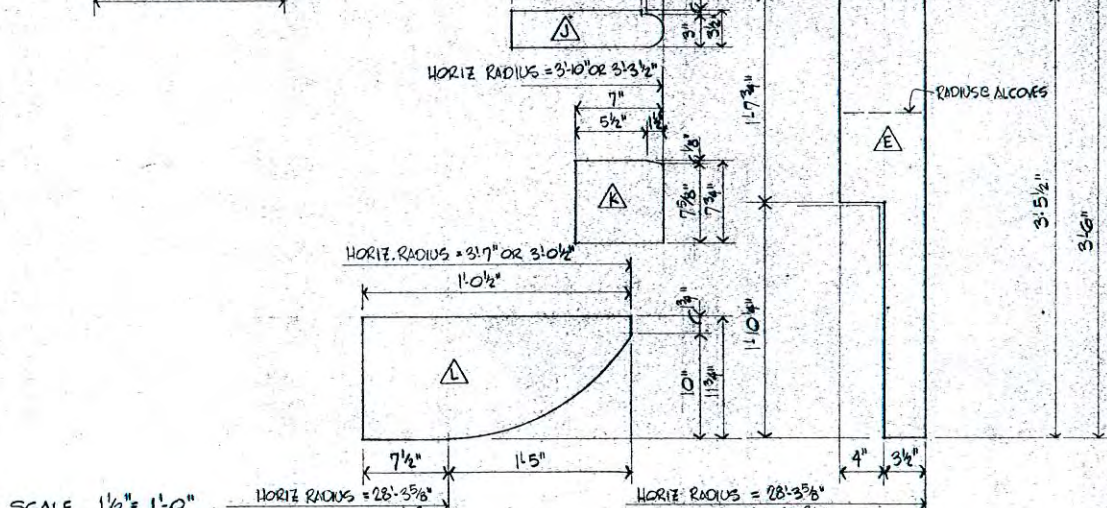
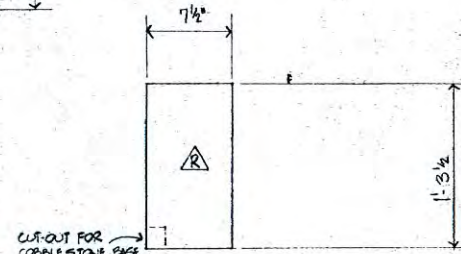
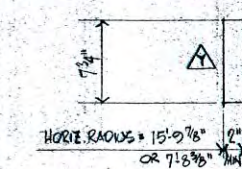
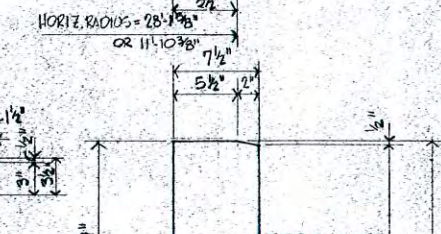
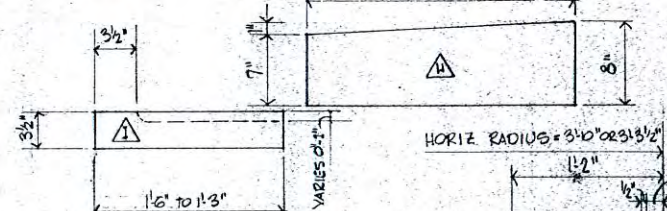
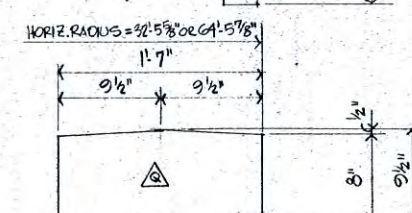
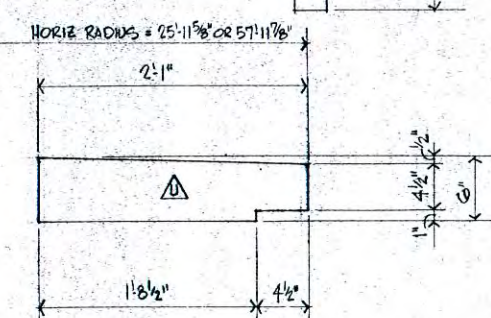
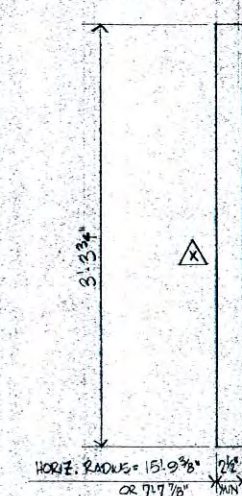
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NOTE: PROVIDE 2 EXTRA TYPE A PANELS
5'-3 3/4" HIGH x 1'-0" THICK ... 1 1/4" 15'-9 3/8" HORIZ. RAD.
1 1/4" 71'-7 1/8" HORIZ. RAD.



NOTE: AT FLAMED SURFACE GRANITE
ALL PANELS ARE FLAT

STONE PROFILE SECTIONS SCALE 1/2" = 1'-0"

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343-7241

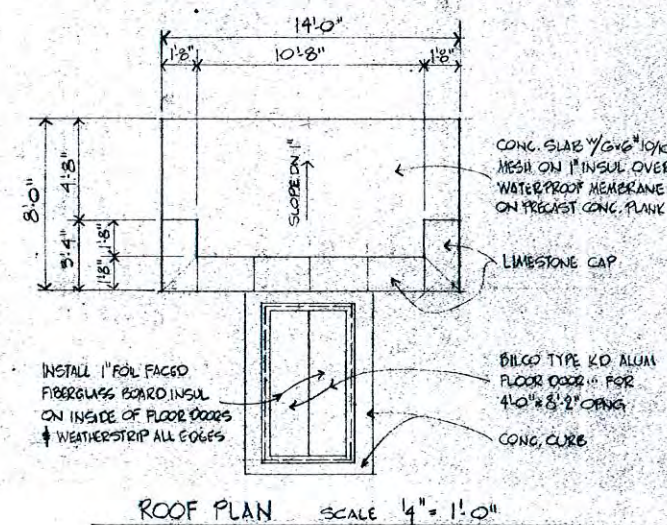
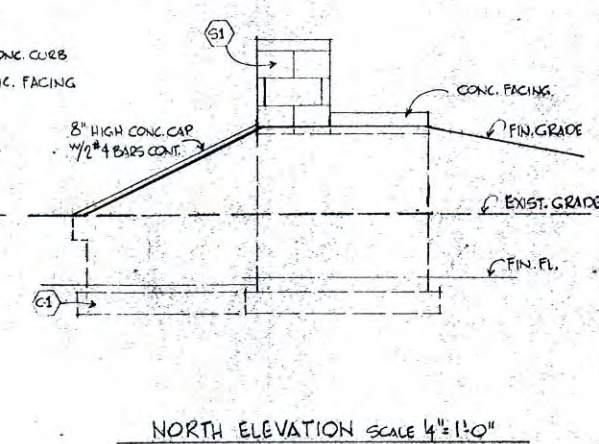
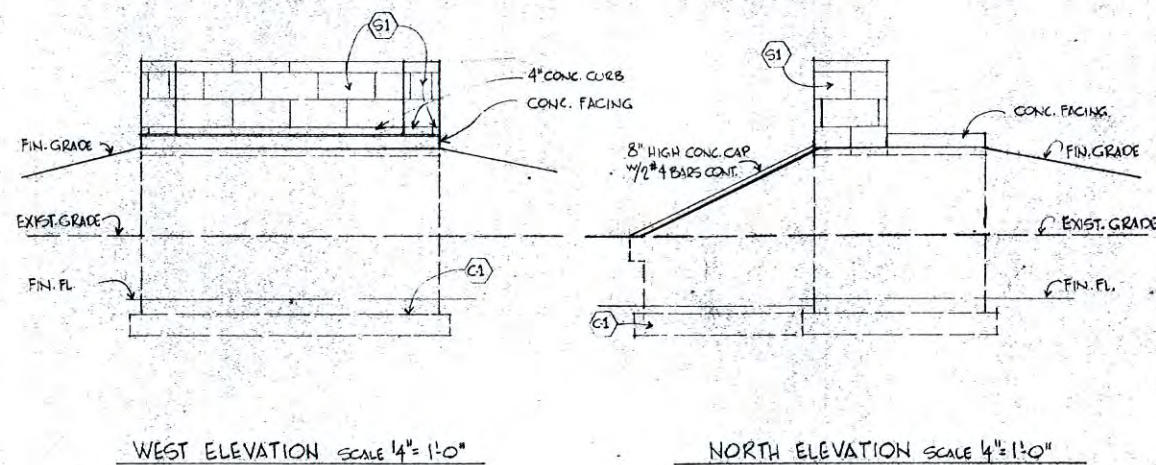
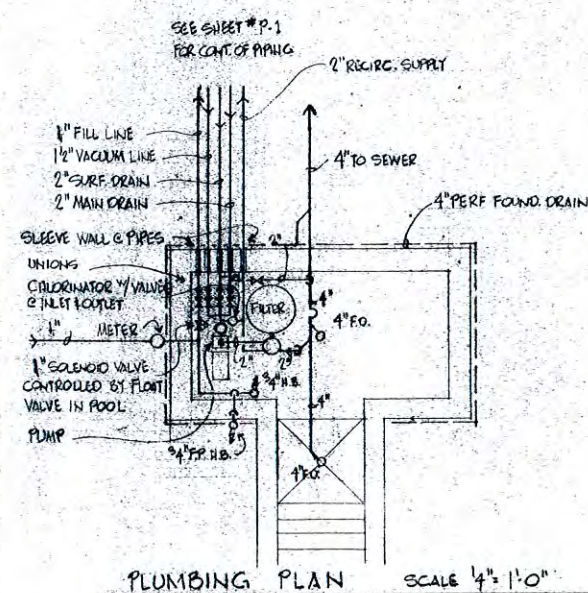
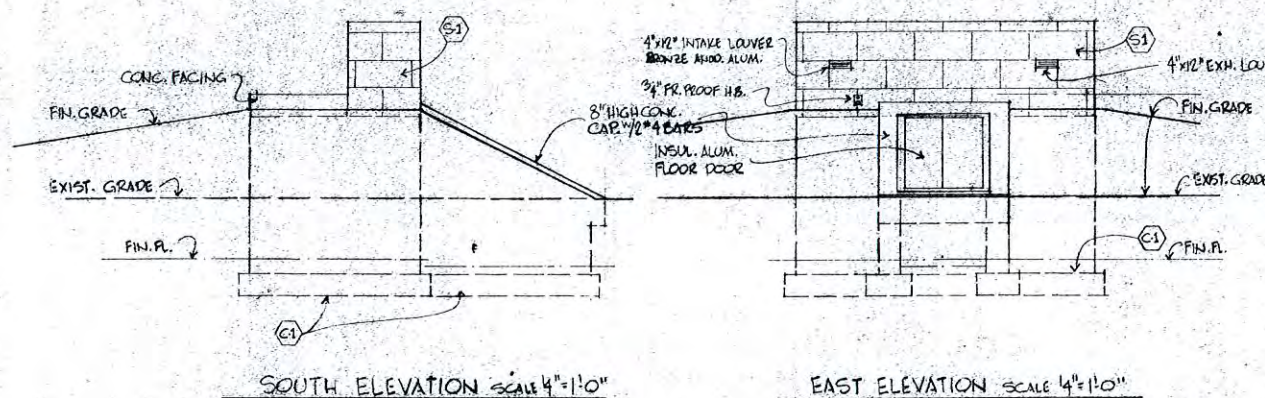
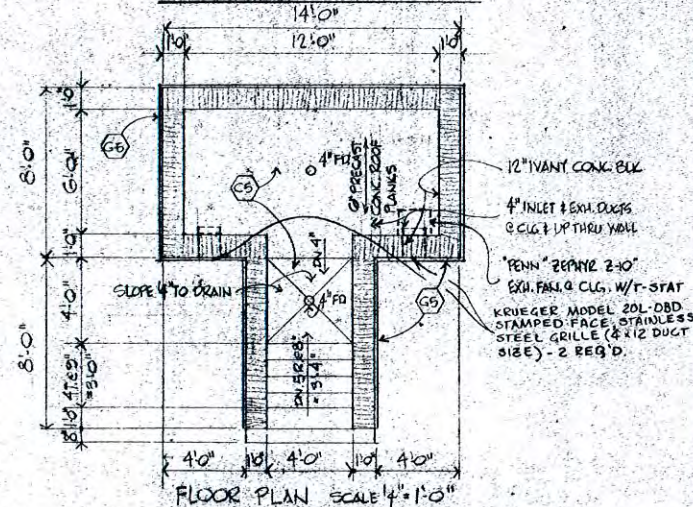
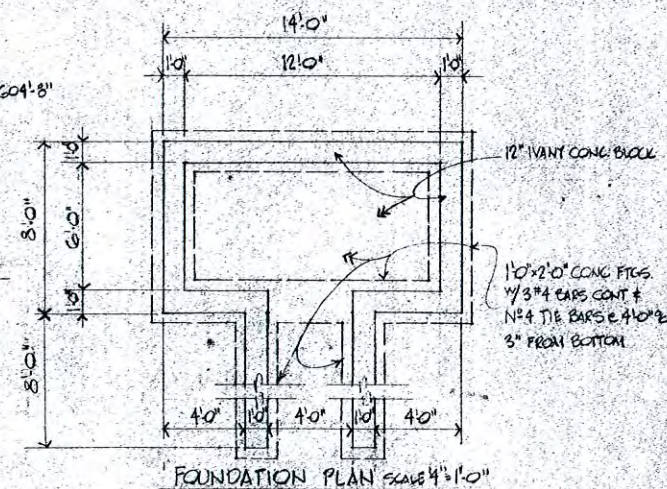
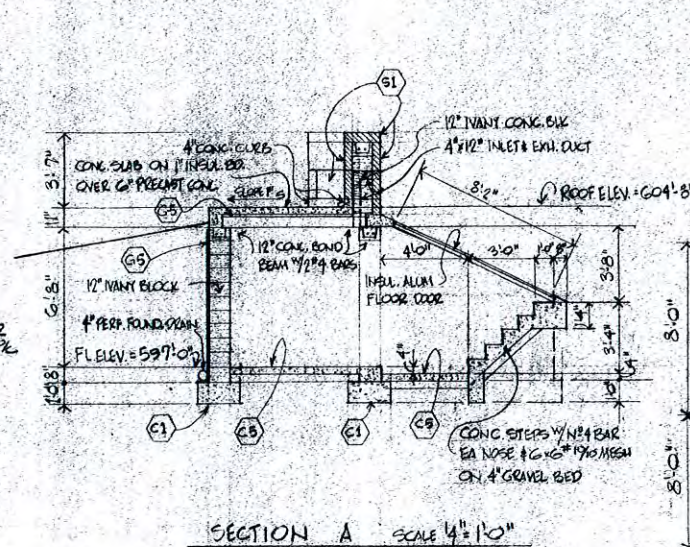
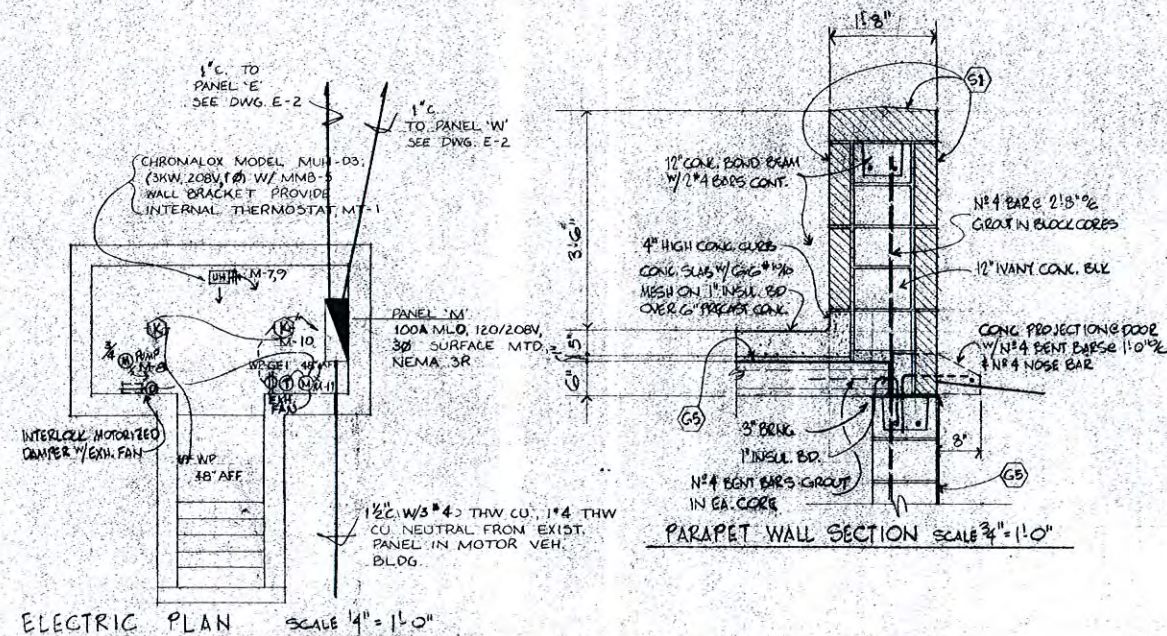


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ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
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304-342-0159

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NOTES.

1. PRECAST CONC. ROOF PLANKS SHALL BE EQUAL TO "FLEXICORE" G24A-DIG - 6" THICK
2. MANY CONC. BLOCK SHALL CONTAIN N#4 VERT. BARS @ 16" & N#4 HORIZ. BARS @ 8" & ALL CORES SHALL BE FULLY GROUTED

UTILITY BUILDING DETAILS

P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241

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Z M M, INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
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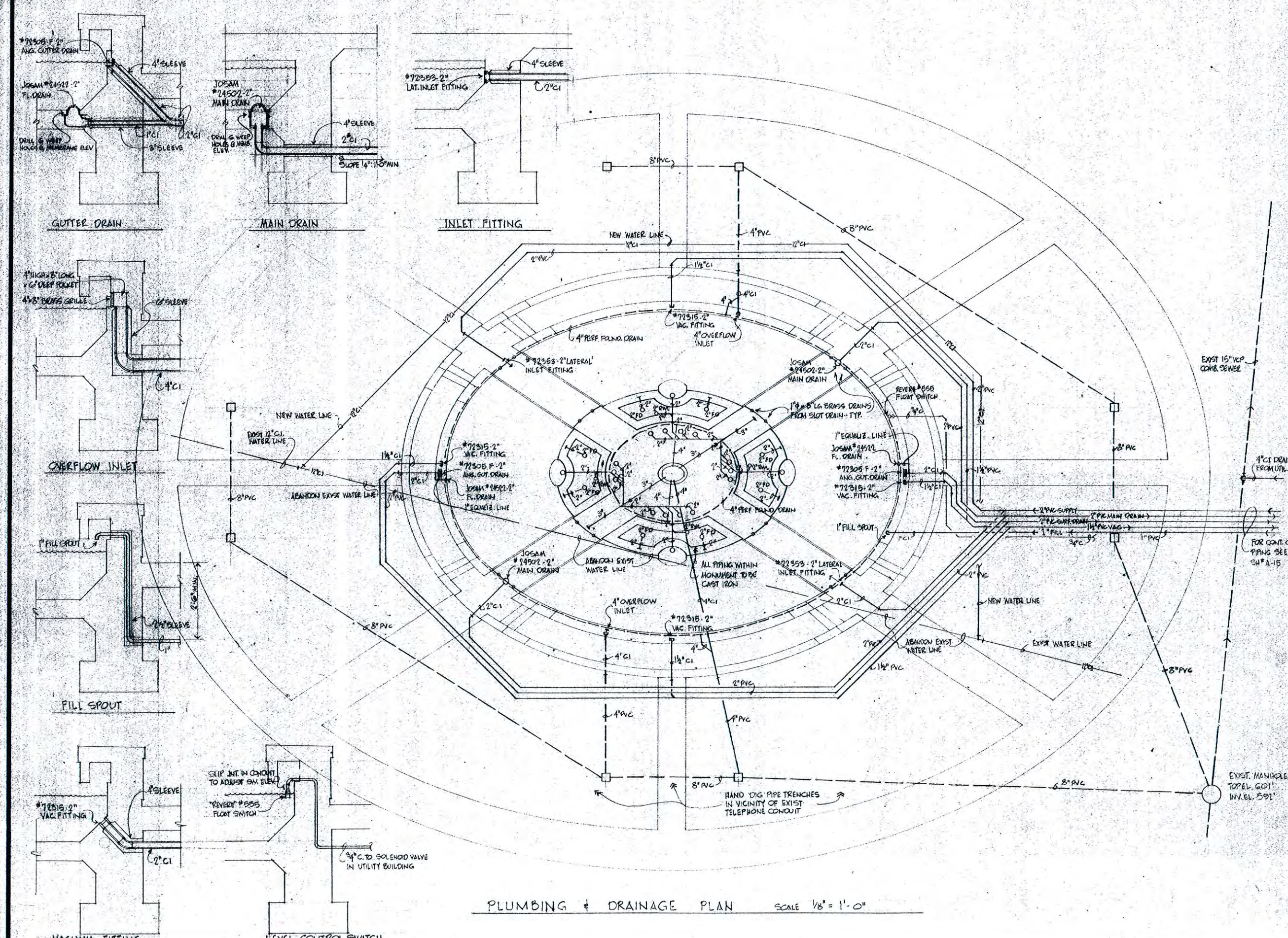
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PLUMBING & DRAINAGE PLAN SCALE 1/8" = 1'-0"

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1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241

ZMM
Z M M, INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

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1540 HANSFORD ST.
CHARLESTON, W.V. 25311
343-7241



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ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

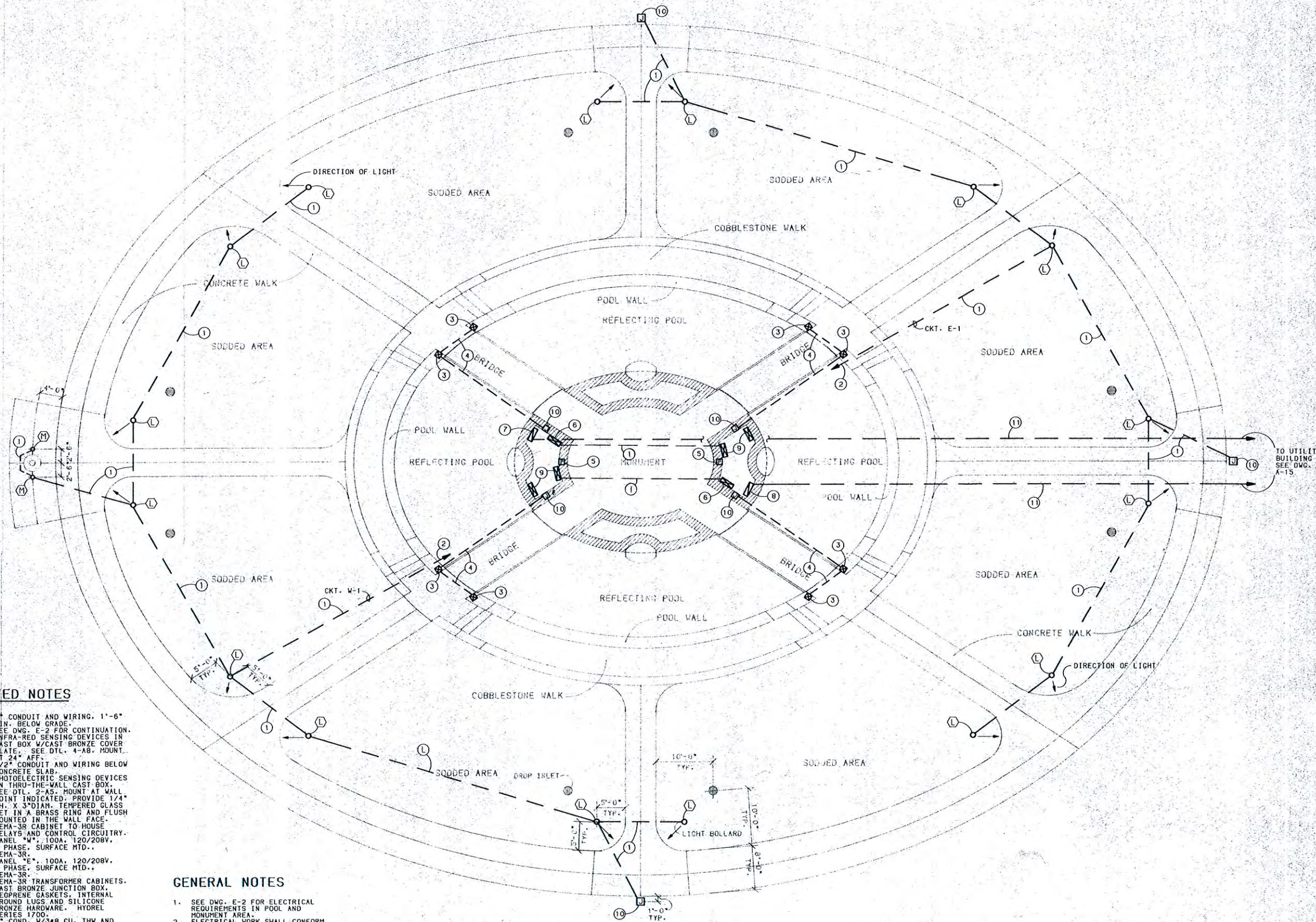
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KEYED NOTES

1. 1" CONDUIT AND WIRING, 1'-6" MIN. BELOW GRADE.
2. SEE DWG. E-2 FOR CONTINUATION.
3. INFRA-RED SENSING DEVICES IN CAST BOX W/CAST BRONZE COVER PLATE. SEE DTL. 4-AB. MOUNT AT 24" AFF.
4. 1/2" CONDUIT AND WIRING BELOW CONCRETE SLAB.
5. PHOTOELECTRIC SENSING DEVICES IN THRU-THE-WALL CAST BOX. SEE DTL. 2-AS. MOUNT AT WALL JOINT INDICATED. PROVIDE 1/4" TH. X 3" DIAM. TEMPERED GLASS SET IN A BRASS RING AND FLUSH MOUNTED IN THE WALL FACE.
6. NEMA-3R CABINET TO HOUSE RELAYS AND CONTROL CIRCUITRY.
7. PANEL 'W', 100A, 120/208V, 3 PHASE, SURFACE MTD..
8. NEMA-3R, PANEL 'E', 100A, 120/208V, 3 PHASE, SURFACE MTD..
9. NEMA-3R TRANSFORMER CABINETS.
10. CAST BRONZE JUNCTION BOX, NEOPRENE GASKETS, INTERNAL GROUND LUGS AND SILICONE BRONZE HARDWARE. HYDREL SERIES 1700.
11. 1" COND. W/3#8 CU. THW AND 1#8 CU. THW N. AND 1#8 CU. C/W BELOW CONCRETE SLAB OR 1'-6" MIN. BELOW FINISHED GRADE.

GENERAL NOTES

1. SEE DWG. E-2 FOR ELECTRICAL REQUIREMENTS IN POOL AND MONUMENT AREA.
2. ELECTRICAL WORK SHALL CONFORM TO NEC-1987 AND, PARTICULARLY, ARTICLE 680 - SWIMMING POOLS, FOUNTAINS, AND SIMILAR INSTALLATIONS.

ELECTRICAL SITE PLAN 1/8"=1'-0"

GENERAL NOTES

1. MOUNT WP-GFI RECEPTACLES AT 48" AFF.
2. MOUNT WEATHERPROOF LIGHT SWITCHES AT 15'-4" AFF ADJACENT TO ENTRY LADDERS.
3. SEE DWG. E-1 FOR CONTINUATION OF ELECTRICAL REQUIREMENTS FOR SITE LIGHTING AND INFRA-RED/PHOTO ELECTRIC SENSING DEVICES.
4. MOUNT ALL PHOTO CELLS ON ROOF OF EAST AND WEST MONUMENTS.
5. ELECTRICAL WORK SHALL CONFORM TO NEC-1987 AND, PARTICULARLY ARTICLE 680 - SWIMMING POOLS, FOUNTAINS, AND SIMILAR INSTALLATIONS.

P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241



Z.M.M. INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
(304) 342-0159

KEYED NOTES

1. 3/4" CONDUIT AND WIRING BELOW CONCRETE SLAB.
2. 3/4" CONDUIT AND WIRING IN CONCRETE WALL.
3. 1" CONDUIT AND WIRING BELOW CONCRETE SLAB.
4. 1" CONDUIT AND WIRING, 1'-6" MIN. BELOW GRADE, TO SITE LIGHTING BOLLARDS. SEE DRAWING E1 FOR CONTINUATION.
5. 1/2" CONDUIT AND WIRING BELOW CONCRETE SLAB.
6. 1/2" CONDUIT AND WIRING IN WALL TO LIGHTED HANDRAIL - FIXTURE "C".
7. NEMA-3R CABINET TO HOUSE NINE REMOTE BALLASTS FOR 100W MERCURY VAPOR FIXTURES "B" AND "C".
8. 2" - 1" CONDUITS AND WIRING BELOW CONCRETE SLAB.
9. 2" - 1" CONDUITS AND WIRING IN CONCRETE WALL.
10. NEMA-3R CABINET TO HOUSE TWO NEON TRANSFORMERS (BASE BID) AND TWO NEON TRANSFORMERS (ALTERNATE BID #4).
11. TO UTILITY BUILDING. SEE DRAWING A-15.
12. NEMA-3R CABINET TO HOUSE RELAYS AND CONTROL CIRCUITRY. PANEL "E", 100A, 120/208V, 3 PHASE, SURFACE MTD..
13. NEMA-3R. PANEL "W", 100A, 120/208V, 3 PHASE, SURFACE MTD..
14. NEMA-3R. 8" W X 10" D X 2'-0" L FLUSH MTD.. CAST BRONZE TRANSFORMER HOUSING. JEFFERSON TRANSFORMER SERIES.
15. 1" COND. W/3#8 CU. THW AND 1#8 CU. THW N. AND 1#8 CU. THW GFC. BELOW CONCRETE SLAB OR 1'-6" MIN. BELOW FINISHED GRADE.
16. CAST BRONZE JUNCTION BOX, NEOPRENE GASKETS, INTERNAL GROUND LUGS AND SILICONE BRONZE HARDWARE. HYDREL SERIES 1700.

WEST VIRGINIA VETERANS MEMORIAL
CAPITOL COMPLEX
CHARLESTON, WEST VIRGINIA

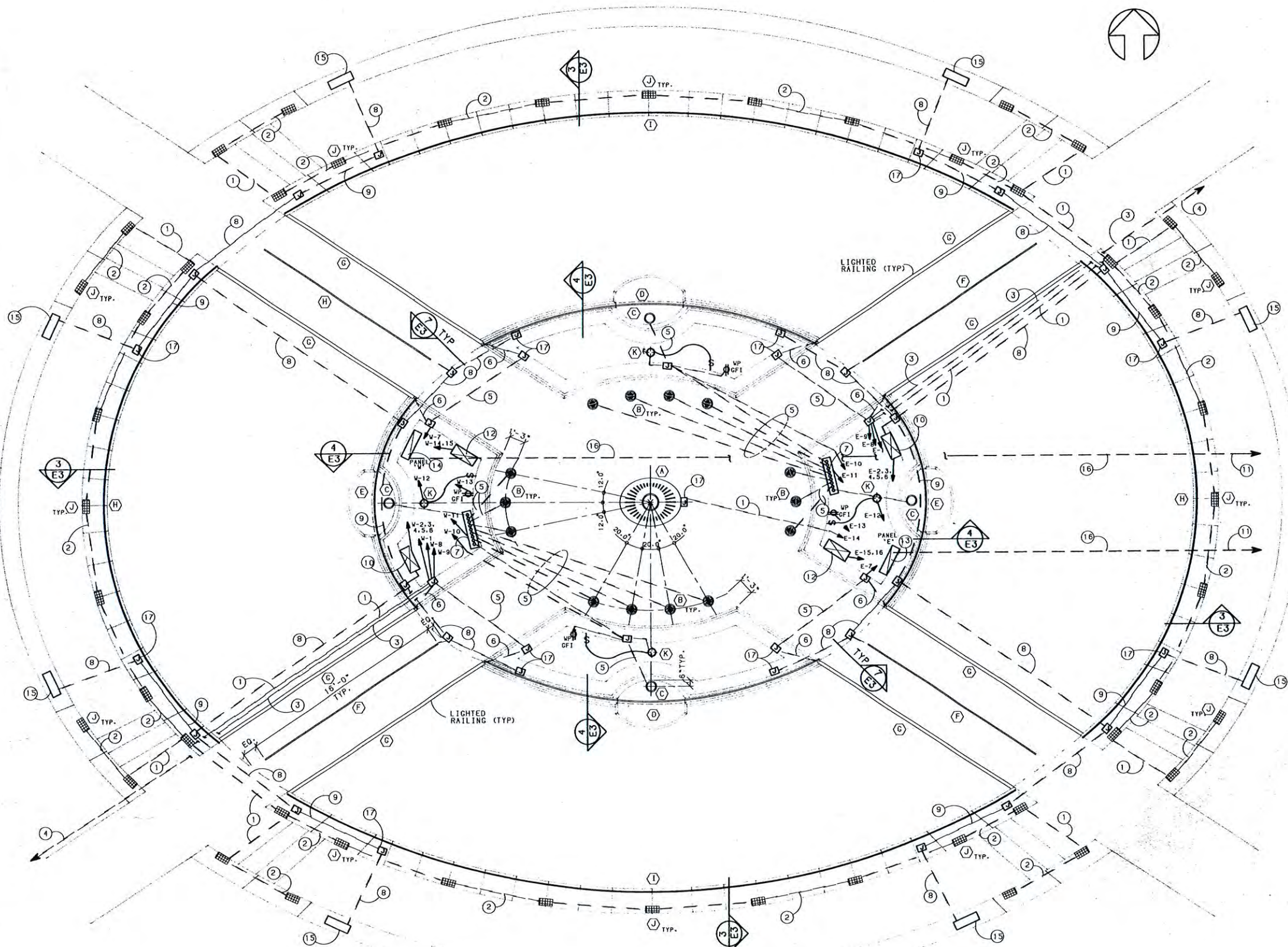
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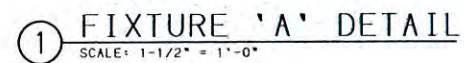
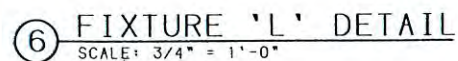
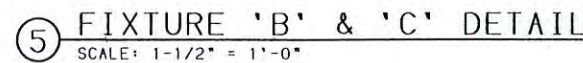
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E-2

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ELECTRICAL PLAN 1/4" = 1'-0"



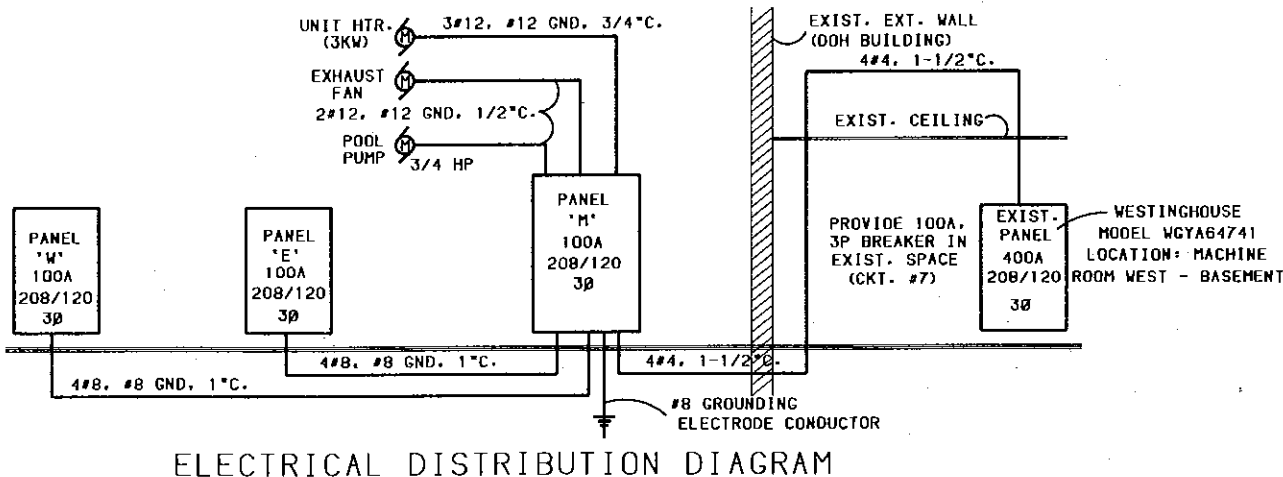
E-3 22 OF 23

PANEL 'W'				LOCATION: WEST MONUMENT FEEDER SIZE: 4#8, #8 GND, 1" C.										
MAIN/GND. BUS: 60A MB/100A BUS VOLTAGE: 120/208 3Ø				MOUNTING: SURFACE										
BRKR.		DESCRIPTION		CIRCUIT		PHASE LOAD			CIRCUIT		DESCRIPTION		BRKR.	
A	P			V	NO.	A	B	C	NO.	V			A	P
20	1		SITE LIGHTING	1560	1	1860			2	300	NEON LIGHTING		20	1
20	1		NEON LIGHTING	300	3		600		4	300	NEON LIGHTING		20	1
20	1		NEON LIGHTING	300	5		600		6	300	NEON LIGHTING		20	1
20	1		LIGHTED HANDRAILS (NORTHWEST)	400	7			1720	8	1320	PERIMETER WALL LIGHTS		20	1
20	1		LIGHTED HANDRAILS (SOUTHWEST)	400	9		1600		10	1200	RECEPTACLE AND UTILITY LIGHT		20	1
20	1		INTERIOR MONUMENT UPLIGHTS	1170	11			1370	12	200	UTILITY LIGHT		20	1
20	1		RECEPTACLE	1200	13	1700			14	500	CONTROL CIRCUITRY		20	1
20	1		CONTROL CIRCUITRY	500	15		1100		16	600	SPARE		20	1
20	1		SPARE	600	17			1200	18	600	SPARE		20	1
20	1		SPARE	600	19	1200			20	600	SPARE		20	1
				21					22					
				23					24					
				25					26					
				27					28					
				29					30					
				31					32					
				33					34					
				35					36					
				37					38					
				39					40					
				41					42					
REMARKS: NEMA-3R				TOTALS		4780	3900	4290						
ALL CIRCUITS LABELED WITH A 'P' SHALL BE PROVIDED WITH PHOTOCELL CONTROL. ALL PHOTOCELLS SHALL BE MOUNTED ON THE ROOF OF THE WEST MONUMENT.														
										TOTAL LOAD 12950 WATTS				
										35.9 AMPS				

PANEL 'E'				LOCATION: EAST MONUMENT FEEDER SIZE: 4#8, #8 GND, 1" C.											
MAIN/GND. BUS: 60A MB/100A BUS VOLTAGE: 120/208 3Ø				MOUNTING: SURFACE											
BRKR.		DESCRIPTION		CIRCUIT		PHASE LOAD			CIRCUIT		DESCRIPTION		BRKR.		
A	P			N	NO.	A	B	C	N	NO.			A	P	
20	1		SITE LIGHTING	1560	1	1860			2	300	NEON LIGHTING		20	1	
20	1		NEON LIGHTING	300	3		600		4	300	NEON LIGHTING		20	1	
20	1		NEON LIGHTING	300	5			600	6	300	NEON LIGHTING		20	1	
20	1		LIGHTED HANDRAILS (SOUTHEAST)	400	7			1720	8	1320	PERIMETER WALL LIGHTS		20	1	
20	1		LIGHTED HANDRAILS (NORTHEAST)	400	9		1600		10	1200	RECEPTACLE AND UTILITY LIGHT		20	1	
20	1		INTERIOR MONUMENT UPLIGHTS	1170	11	1370			12	200	UTILITY LIGHT		20	1	
20	1		RECEPTACLE	1200	13		2500		14	1300	CENTER BEACON LIGHT		20	1	
20	1		CONTROL CIRCUITRY	500	15			1000	16	500	CONTROL CIRCUITRY		20	1	
20	1		SPARE	600	17	1200			18	600	SPARE		20	1	
20	1		SPARE	600	19			1200	20	600	SPARE		20	1	
				21					22						
				23					24						
				25					26						
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				31					32						
				33					34						
				35					36						
				37					38						
				39					40						
				41					42						
REMARKS: NEMA-3R				TOTALS		4430	4700	4520							
ALL CIRCUITS LABELED WITH A 'P' SHALL BE PROVIDED WITH PHOTOCELL CONTROL. ALL PHOTOCELLS SHALL BE MOUNTED ON THE ROOF OF THE EAST MONUMENT.														TOTAL LOAD 13650 WATTS	
														37.9 AMPS	

PANEL 'M'				LOCATION: UTILITY BUILDING FEEDER SIZE: 4#4, 1-1/2" C.											
MAIN/GND. BUS: 100A MLO				VOLTAGE: 120/208 3Ø				MOUNTING: SURFACE							
BRKR.		DESCRIPTION		CIRCUIT			PHASE LOAD			CIRCUIT		DESCRIPTION		BRKR.	
A	P			NO.	A	B	C	NO.	A	P			A	P	
60	3		PANEL 'W'	4760	1	9190		2	4430		PANEL 'E'		60	3	
			" "	3900	3		8600		4	4700	" "				
			" "	4290	5			8910	6	4520	" "				
20	2		UNIT HEATER (3 KW)	1530	7	3190		8	1660		POOL PUMP		20	1	
			" "	1530	9		2730		10	1200	UTILITY LIGHTS & RECEPTACLE		20	1	
20	1		EXHAUST FAN	100	11			100	12						
				13					14						
				15					16						
				17					18						
				19					20						
				21					22						
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				31					32						
				33					34						
				35					36						
				37					38						
				39					40						
				41					42						
REMARKS: NEMA-3R				TOTALS			12380	1330	8910						
										TOTAL LOAD 32620 WATTS					
										90.5 AMPS					

LIGHTING FIXTURE SCHEDULE									
TYPE	QUAN.	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	LAMPS	WATTAGE	VOLTAGE	NOTES
A	1	WIDE-LITE	TLH-1000-T-QV	FIXED BEAM UPLIGHT	DTL 1-E3	MVR1000/U	1300	120	1,2,6
B	14	GREENLEE	GLL101-10-B-8C	ADJUST. UPLIGHT	DTL 5-E3	HR100PFL44	130	120	1,3,6,8
C	4	GREENLEE	GLL101-11-B-8C	ADJUST. UPLIGHT	DTL 5-E3	HR175RDXFL39	210	120	1,3,6,8
D	2028'	VOLTARC	-----	NEON TUBING	DTL 4-E3	8300 BRT. WHITE	5W/FT	120	1,4,6,7,8
E	2019'	VOLTARC	-----	NEON TUBING	DTL 4-E3	8300 BRT. WHITE	5W/FT	120	1,4,6,7,8
F	2016'	VOLTARC	-----	NEON TUBING	DTL 7-E3	8300 BRT. WHITE	5W/FT	120	1,4,6,7,8
G	8018'	-----	-----	LIGHTED HANDRAIL	SEE ARCH.	F40SP41/RS/WH	10W/FT	120	1,5,6,8
H	2043'	VOLTARC	-----	NEON TUBING	DTL 3-E3	8300 BRT. WHITE	5W/FT	120	1,4,6,7,8
I	2061'	VOLTARC	-----	NEON TUBING	DTL 3-E3	8300 BRT. WHITE	5W/FT	120	1,4,6,7,8
J	48	HYDREL	4456 HP35AL	RECESSED WALL LIGHT	DTL 3-E3	LU35/MED	55	120	1,6,9
K	6	APPLETON	VPC1050G	UTILITY LIGHT	SURFACE	200A/99	200	120	1,8
L	16	KIM	831/D8E/HS/NAT	CONC. BOLLARD	DTL 6-E3	LU70/D	95	120	1,8
M	2	GREENLEE	GLL101-10-B-8C	ADJUST. UPLIGHT	RECESSED	HR175RDXFL39	210	120	1,3,6
NOTES:									
1. ALL FIXTURE QUANTITIES SHALL BE VERIFIED BY CONTRACTOR.									
2. REFER TO DTL. 1 & 2-E3 FOR ADDITIONAL HOUSING AND MOUNTING REQUIREMENTS.									
3. MANUFACTURER SHALL PROVIDE PLAIN BRASS DIRECTIONAL GRILL (WITHOUT STENCILED NAMEPLATE).									
4. NEON LIGHTING SYSTEM SHALL BE PROVIDED WITH THE FOLLOWING COMPONENTS:									
A. NEON GLASS: 8300 VOLTARC BRIGHT WHITE									
B. TRANSFORMERS: JEFFERSON ELECTRIC 711 SERIES									
C. WIRE: CTO, HIGH TENSION WIRE									
D. ELECTRODES: E.G.L. 8C DUMET LEAD									
E. INSULATOR: NON-METALLIC GREENFIELD									
F. TUBE SUPPORTS: McMAHANS STANDARD SUPPORTS									
FOR ALL CONNECTIONS USE SHORT STOPS, CAPS & SLEEVES.									
5. ELECTRICAL CONTRACTOR SHALL ONLY PROVIDE LAMPS AND POWER CONNECTIONS TO LIGHTED HANDRAIL SYSTEMS.									
6. LAMP DESIGNATIONS ARE OF CATALOG NUMBERS. PRIOR APPROVAL OF LAMP SUBSTITUTIONS MUST BE OBTAINED IN ACCORDANCE WITH THE SPECIFICATIONS.									
7. NEON QUANTITIES LISTED REPRESENT THE BASE BID INTERMEDIATE BID. CONTRACTOR SHALL PROVIDE FOR A SECOND ROW OF TUBING AT THE INNER AND OUTER POOL PERIMETER.									
8. PROVIDE REMOTE MOUNTED BALLAST.									
9. REFER TO DWG. A-6 FOR MOUNTING LOCATIONS ALONG WALL.									



LIGHTING CONTROL SYSTEM

- A. HID DIMMING SYSTEM**
- Contractor shall provide an HID dimming system capable of controlling mercury vapor and metal halide lamps from a 120 volt, 1 phase electrical source.
 - Dimming controls shall be designed to provide zones of independent control as illustrated on plans. System shall contain an automatic mode which utilizes remotely located photoelectric motion detectors which monitor occupancy within the monument to maintain constant illumination during occupancy.
 - HID lamps shall dim from 100% to 60% to 15% of their light output.
 - HID fixtures shall be equipped with integral (Fixt. Type A) and remote (Fixt. Type B) dimming ballasts capable of driving lamps with a continuous 60 Hz. AC current containing no DC components. Ballasts shall be U.L. approved for use on HID dimming system.
 - All dimming equipment, fixtures, ballasts and controls shall be of a single manufacturer and shall be connected in accordance with manufacturer's standard three-year limited warranty when properly installed. Dimming system manufacturer shall provide field inspection of dimming equipment installation prior to equipment being energized.
- B. HID SWITCHING SYSTEM**
- Contractor shall install a complete HID level switching system for operation of lighting loads as indicated. System shall consist of switching apparatus at each ballast and applicable controls.
 - Switching apparatus shall be capable of maximum and minimum output selection of related HID lamp with zero-crossover and low end stability. Switching apparatus and controls to be rated at 120 volt AC. Switching/control to be connected by wiring sized for rated load/distance at 120 volt AC. Control available to be system ON/OFF and lighting intensity select HIGH/LDW. Both switching apparatus and controls to be U.L. listed.
 - Manufacturer shall provide standard wiring diagrams, installation instructions, and a three-year limited warranty for its properly installed products.
- C. CONTROL SEQUENCE**
- Photoelectric control shall energize lighting fixture types A, C, D, E, F, G, H, I, J, L, and M.
 - Time clocks will override photoelectric control to de-energize lighting fixture types A, D, E, F, G, H, I, and J.
 - Upon tripping of beam, infra-red transmitters and receivers, located at four walkway entrances, shall independently dim fixture type A in three levels at two-second intervals and energize fixtures type B to full power. Time clocks shall override this sequence and de-energize all fixtures A and B at a pre-set time.
 - Photoelectric motion detectors, located within the monument, shall maintain energization of fixture types B and will hold fixture type A at minimum level for ten minutes (maximum). If motion is detected after ten minutes, fixture type A will be de-energized.
 - Upon de-energization of fixture type A, motion will be sensed at ten-minute intervals. After two ten-minute intervals with no detected motion, fixture type A will be energized and fixtures type B will be dimmed in four levels to off at three-minute intervals. Operation will revert to #3. During this sequence, if the infra-red sensor beams are tripped, fixture type A will be energized to minimum dimming level and fixtures type B will be energized to full output. Operation will revert to #4.

SYMBOL LEGEND

- PANELBOARD (NEMA-3R)
- ELECT. ENCL. (NEMA-3R)
- RIGID CONDUIT (CONCEALED)
- CIRCUIT HOMERUN
- CAST BRONZE JUNCTION BOX
- INFRA-RED SENSING DEVICE
- PHOTOELECTRIC SENSING DEVICE
- DUPLEX RECEPTACLE
- WP SINGLE-POLE SWITCH
- LIGHTING FIXTURE TYPE
- WP
- GFI

REVISIONS

P. JOSEPH MULLINS, DESIGNER
1540 HANSFORD ST.
CHARLESTON W.V. 25311
343-7241

ZMM

Z M M, INC.
ARCHITECTS & ENGINEERS
608 TENNESSEE AVENUE
CHARLESTON, WV 25302
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