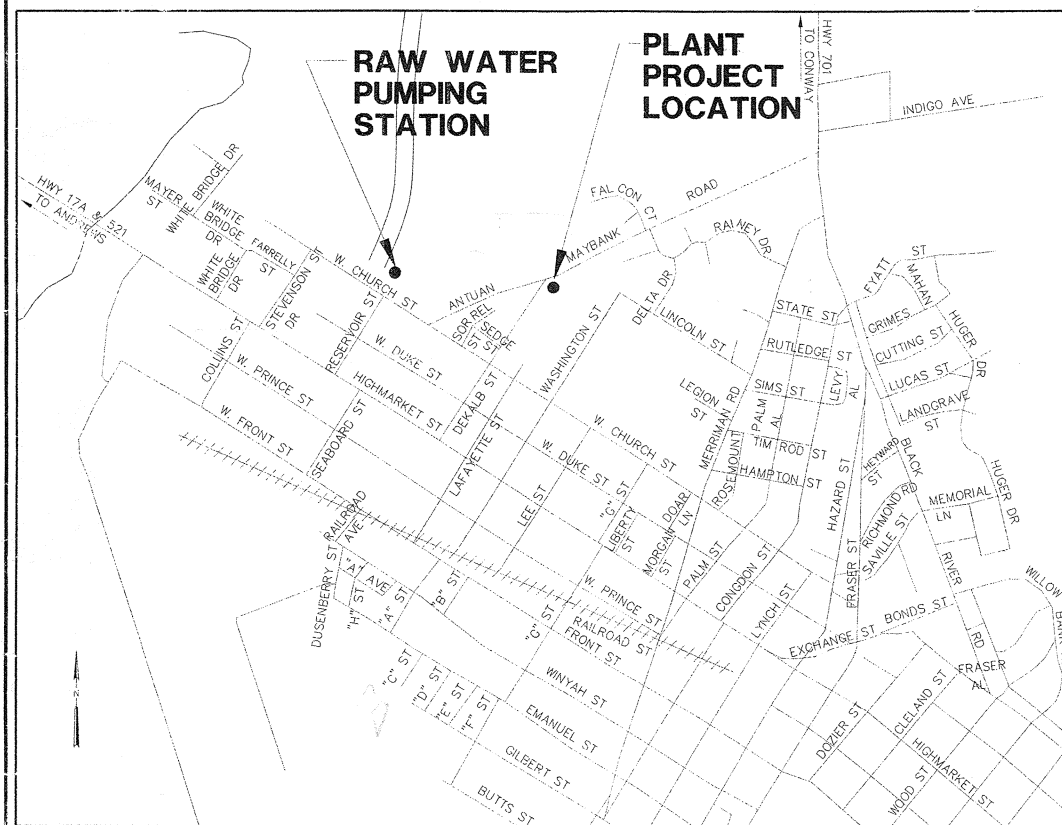


City of Georgetown Water Utilities

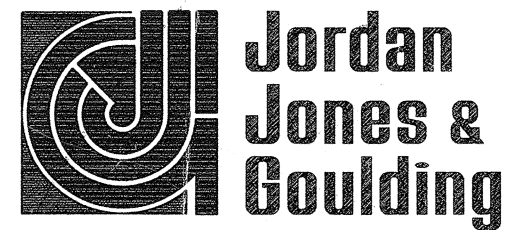
WATER TREATMENT PLANT IMPROVEMENTS



LOCATION MAP

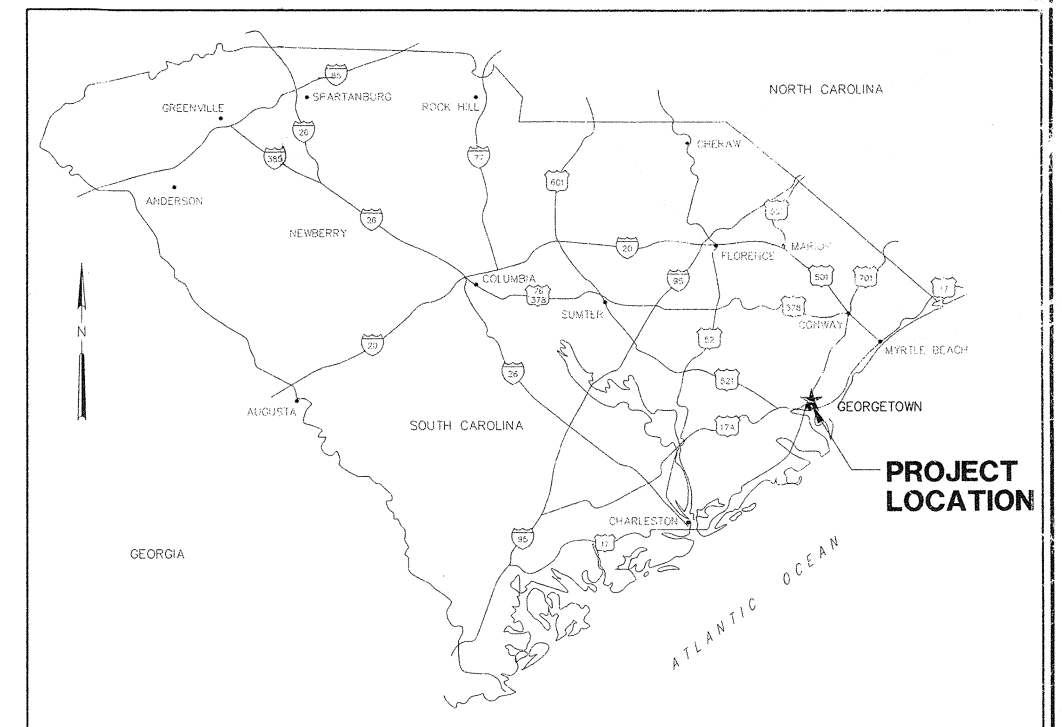


CITY OF GEORGETOWN
SOUTH CAROLINA



RECORD DRAWINGS

AUGUST 2001



VICINITY MAP

DRAWING INDEX

| GENERAL | |
|-----------|------------------------|
| SHEET NO. | DRAWING TITLE |
| G0.0 | COVER |
| G0.1 | DRAWING INDEX |
| G0.2 | PROCESS FLOW SCHEMATIC |
| G0.3 | HYDRAULIC PROFILE |

| CIVIL | |
|-----------|------------------------------|
| SHEET NO. | DRAWING TITLE |
| C1.1 | LAYOUT PLAN |
| C1.2 | GRADING PLAN |
| C1.2a | ENLARGED GRADING PLAN |
| C1.3 | YARD PIPING PLAN |
| C1.4 | ENLARGED YARD PIPING PLAN |
| C1.5 | MISCELLANEOUS PAVING DETAILS |
| C1.6 | MISCELLANEOUS DETAILS |
| C1.7 | MISCELLANEOUS DETAILS |

| PROCESS | |
|-----------|---|
| SHEET NO. | DRAWING TITLE |
| P2.0 | CHEMICAL BUILDING - DEMOLITION PLAN |
| P2.1 | CHEMICAL BUILDING - FIRST FLOOR MODIFICATIONS |
| P2.2 | CHEMICAL BUILDING - SECOND FLOOR MODIFICATIONS |
| P2.3 | CHEMICAL BUILDING - FIRST FLOOR SECTIONS & DETAILS |
| P2.4 | CAUSTIC, FERRIC CHLORIDE & CORROSION INHIBITOR ISOMETRICS |
| P2.5 | FLUORIDE, PERMANGANATE & POLYMER PIPING ISOMETRICS |
| P3.1 | FLOCCULATION / SEDIMENTATION BASIN - PLAN |
| P3.2 | FLOCCULATION / SEDIMENTATION BASIN - SECTION |
| P3.3 | FLOCCULATION / SEDIMENTATION BASIN- SECTIONS & DETAILS |
| P4.0 | FILTER DEMOLITION PLAN |
| P4.1 | FILTER BUILDING - MODIFICATIONS |
| P4.2 | FILTER BUILDING - SECTIONS |
| P4.3 | FILTER BUILDING - SECTIONS & DETAILS |
| P5.1 | FERRIC CHLORIDE AND CAUSTIC BULK STORAGE TANKS - PLAN |
| P5.2 | FERRIC CHLORIDE AND CAUSTIC BULK STORAGE TANKS - SECTION, SCHEMATICS AND DETAIL |
| P6.1 | HIGH SERVICE PUMPING BUILDING - PLAN |
| P8.1 | RAW WATER PUMPING BUILDING IMPROVEMENTS/POTASSIUM PERMANGANATE SYSTEM |
| P9.1 | SLUDGE CONTROL STRUCTURE MODIFICATIONS |
| PD.1 | MISCELLANEOUS METALS |
| PD.2 | MISCELLANEOUS PROCESS METALS |
| PD.3 | MISCELLANEOUS PROCESS DETAILS |

| INSTRUMENTATION | |
|-----------------|---|
| SHEET NO. | DRAWING TITLE |
| I0.1 | PROCESS AND INSTRUMENTATION DIAGRAM - SYMBOL LEGEND |
| I0.2 | PROCESS AND INSTRUMENTATION DIAGRAM - INSTRUMENTATION LEGEND |
| I0.3 | PROCESS AND INSTRUMENTATION DIAGRAM - RAW WATER CHEMICAL DOSAGE SYSTEMS |
| I0.4 | PROCESS AND INSTRUMENTATION DIAGRAM - FLOCCULATION & SEDIMENTATION |
| I0.5 | PROCESS AND INSTRUMENTATION DIAGRAM - GRAVITY FILTER SYSTEM |
| I0.6 | PROCESS AND INSTRUMENTATION DIAGRAM - FILTERED WATER SYSTEMS |
| I0.7 | PROCESS AND INSTRUMENTATION DIAGRAM - CLEARWELL & HIGH SERVICE PUMPING SYSTEM |
| I0.8 | PROCESS AND INSTRUMENTATION DIAGRAM - CAUSTIC & FERRIC CHLORIDE SYSTEMS |
| I0.9 | PROCESS AND INSTRUMENTATION DIAGRAM - POLYMER SYSTEM-FLOCCULANT AID |
| I0.10 | PROCESS AND INSTRUMENTATION DIAGRAM - FLUORIDE & PHOSPHATE FEED SYSTEMS |
| I0.11 | PROCESS AND INSTRUMENTATION DIAGRAM - CHLORINE FEED SYSTEM |
| I0.12 | PROCESS AND INSTRUMENTATION DIAGRAM - AMMONIA FEED SYSTEMS |
| I0.13 | PROCESS AND INSTRUMENTATION DIAGRAM - CHLORINE SCRUBBER |
| I0.14 | PROCESS AND INSTRUMENTATION DIAGRAM - PLC SYSTEM CONFIGURATION |
| I0.15 | MAIN CONTROL PANEL (MCP) - CONTROL CONSOLE |

| ARCHITECTURAL | |
|---------------|---|
| SHEET NO. | DRAWING TITLE |
| A.01 | COVER SHEET |
| A2.1 | CHEMICAL & ADMINISTRATION BUILDING - FIRST FLOOR PLAN |
| A2.2 | CHEMICAL & ADMINISTRATION BUILDING - SECOND FLOOR PLAN |
| A2.3 | CHEMICAL & ADMINISTRATION BUILDING - ELEVATIONS |
| A2.4 | CHEMICAL & ADMINISTRATION BUILDING - ROOF PLAN AND REFLECTED CEILING PLAN |
| A2.5 | CHEMICAL & ADMINISTRATION BUILDING - ENLARGED LABORATORY PLAN AND DETAILS |
| A4.1 | FILTER BUILDING MODIFICATIONS - FLOOR PLAN |
| A4.2 | FILTER BUILDING MODIFICATIONS - ELEVATIONS |
| A4.3 | FILTER BUILDING MODIFICATIONS - ELEVATIONS |
| A4.4 | FILTER BUILDING MODIFICATIONS - ELEVATIONS |
| A4.5 | FILTER BUILDING MODIFICATIONS - SECTION |
| A4.6 | FILTER BUILDING MODIFICATIONS - SECTION |
| A5.1 | FERRIC CHLORIDE AND CAUSTIC BULK TANKS - PLAN |
| A5.2 | FERRIC CHLORIDE AND CAUSTIC BULK TANKS - ELEVATIONS |
| A5.3 | FERRIC CHLORIDE AND CAUSTIC BULK TANKS - SECTION |
| A6.1 | HIGH SERVICE PUMP STATION - ROOF PLAN |
| A99.1 | TYPICAL DOOR SCHEDULE, FINISH SCHEDULE & DETAILS |
| A99.2 | TYPICAL DOOR DETAILS AND MISCELLANEOUS DETAILS |
| A99.3 | TYPICAL DOOR ROOFING MEMBRANE DETAILS |
| A99.4 | TYPICAL WALL SECTIONS |
| A99.5 | EXISTING DOOR REPAIR DETAILS |

| STRUCTURAL | |
|------------|---|
| SHEET NO. | DRAWING TITLE |
| S3.1 | FLOCCULATION/SEDIMENTATION BASIN BOTTOM PLAN |
| S3.2 | FLOCCULATION/SEDIMENTATION BASIN TOP PLAN |
| S3.3 | FLOCCULATION/SEDIMENTATION BASIN SECTIONS AND DETAILS |
| S4.1 | FILTER BUILDING MODIFICATIONS - FOUNDATION PLAN |
| S4.2 | FILTER BUILDING MODIFICATIONS - ROOF PLAN |
| S4.3 | FILTER BUILDING SECTIONS - SECTIONS AND DETAILS |
| S5.1 | FERRIC CHLORIDE AND CAUSTIC BULK TANKS |
| S5.2 | FERRIC CHLORIDE AND CAUSTIC BULK TANKS - SECTIONS AND DETAILS |
| S7.1 | SCRUBBER CONTAINMENT STRUCTURE - PLAN AND SECTION |
| ST1 | TYPICAL SECTIONS AND DETAILS |
| ST2 | TYPICAL SECTIONS AND DETAILS |

| MECHANICAL | |
|------------|--|
| SHEET NO. | DRAWING TITLE |
| M0.1 | LEGEND, SCHEDULES, ABBREVIATIONS & DETAILS |
| M0.2 | MECHANICAL DETAILS |
| M2.1 | ADMINISTRATION & CHEMICAL BUILDING/FIRST FLOOR - MECHANICAL |
| M2.2 | ADMINISTRATION & CHEMICAL BUILDING/SECOND FLOOR - MECHANICAL |
| M2.3 | ADMINISTRATION & CHEMICAL BUILDING/SECOND FLOOR - PLUMBING |
| M2.4 | ADMINISTRATION & CHEMICAL BUILDING - RISER DIAGRAMS |
| M4.1 | FILTER BUILDING MODIFICATIONS - MECHANICAL |
| M4.2 | FILTER BUILDING MODIFICATIONS - ROOF PLAN - PLUMBING |
| M5.1 | BULK CHEMICAL STORAGE - MECHANICAL |

| ELECTRICAL | |
|------------|---|
| SHEET NO. | DRAWING TITLE |
| E0.1 | ELECTRICAL SYMBOLS LEGEND |
| E0.2 | ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION |
| E0.3 | ELECTRICAL ONE-LINE DIAGRAM - MODIFICATION |
| E0.4 | ELECTRICAL ONE-LINE DIAGRAM - MCC-A, MCC-B, AND ELEVATIONS |
| E0.5 | ELECTRICAL WIRING DIAGRAMS |
| E0.6 | ELECTRICAL PANELBOARD SCHEDULES, |
| E0.7 | ELECTRICAL CONDUCTOR AND DUCTBANK SCHEDULES |
| E0.8 | ELECTRICAL LIGHTING FIXTURE SCHEDULE AND DETAILS |
| E1.1 | ELECTRICAL SITE PLAN |
| E2.1 | CHEMICAL BUILDING - FIRST FLOOR ELECTRICAL DEMOLITION PLAN |
| E2.2 | CHEMICAL BUILDING - SECOND FLOOR ELECTRICAL DEMOLITION PLAN |
| E2.3 | CHEMICAL & ADMINISTRATION BUILDING - FIRST FLOOR ELECTRICAL LIGHTING AND RECEPTACLE PLAN |
| E2.4 | CHEMICAL & ADMINISTRATION BUILDING - SECOND FLOOR ELECTRICAL LIGHTING AND RECEPTACLE PLAN |
| E2.5 | CHEMICAL & ADMINISTRATION BUILDING - FIRST FLOOR ELECTRICAL POWER AND SYSTEMS PLAN |
| E2.6 | CHEMICAL & ADMINISTRATION BUILDING - SECOND FLOOR ELECTRICAL POWER AND SYSTEMS PLAN |
| E3.1 | FLOCCULATION / SEDIMENTATION BASIN - ELECTRICAL PLAN |
| E4.1 | FILTER BUILDING - ELECTRICAL DEMOLITION PLAN |
| E4.2 | FILTER BUILDING - ELECTRICAL LIGHTING AND RECEPTACLES PLAN |
| E4.3 | FILTER BUILDING - ELECTRICAL POWER AND SYSTEMS PLAN |
| E5.1 | FERRIC CHLORIDE AND CAUSTIC BULK TANKS - ELECTRICAL PLAN |
| E6.1 | HIGH SERVICE PUMPING BUILDING - ELECTRICAL PLAN |
| E8.1 | RAW WATER PUMPING BUILDING - ELECTRICAL PLAN |

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| | | |
|-----|----------|-------------------------|
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| 0 | 12-15-99 | INITIAL ISSUE |
| NO. | DATE | DESCRIPTION OF REVISION |



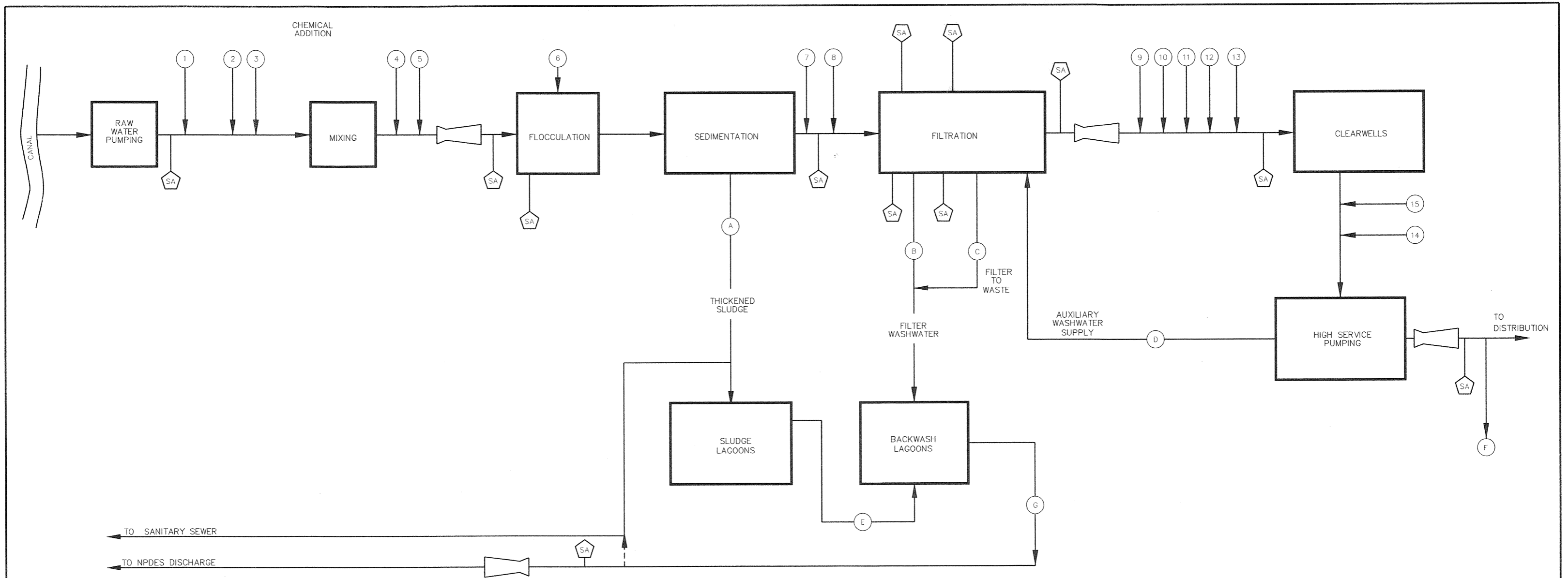
CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

DRAWING INDEX

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2008 | GO.1 | 1 |
| DRAWN: RB | JOB NO. 2193.006 | SCALE: N.T.S. | SHEET | REV |



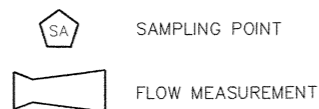
MASS BALANCE QUANTITIES (6-MGD PLANT- 24 HOUR OPERATION)

| FLOW STREAM CODE | FLOW STREAM DESCRIPTION | 24-HOUR VOLUME, MG | | FLOW RATE, MGD | | CONCENTRATION, mg/l | | DRY SOLIDS, lbs/day | |
|------------------|----------------------------|--------------------|---------|----------------|---------|---------------------|---------|---------------------|---------|
| | | AVERAGE | MAXIMUM | AVERAGE | MAXIMUM | AVERAGE | MAXIMUM | AVERAGE | MAXIMUM |
| (A) | THICKENED SLUDGE | .006 | .023 | 0.58 | 0.58 | 15,000 | 20,000 | 750 | 3,840 |
| (B) | FILTER WASHWATER (1) (3) | .080 | .320 | 5.75 | 5.75 | 85 | 180 | 56 | 480 |
| (C) | FILTER TO WASTE (2) (3) | .016 | .064 | 1.50 | 1.50 | - | - | - | - |
| (D) | AUXILIARY WASHWATER SUPPLY | .016 | .028 | 1.15 | 1.15 | - | - | - | - |
| (E) | SLUDGE DECANT | .004 | .017 | 0.29 | 0.45 | 30 | 60 | 1 | 9 |
| (F) | PLANT WATER | .072 | .137 | .072 | .137 | - | - | - | - |
| (G) | NPDES DISCHARGE (4) | .096 | .384 | .432 | .720 | 15 | 30 | 12 | 96 |

| CHEMICAL FEED POINT | CHEMICAL | CHEMICAL SOLUTION, GPD | | | AVERAGE DOSAGE (@ 6 MGD) | |
|---------------------|---|------------------------|---------|---------|--------------------------|---------|
| | | AVERAGE | MAXIMUM | MINIMUM | mg/l | lbs/day |
| (1) | POTASSIUM PERMANGANATE (3% SOLUTION) | 200 | 500 | 67 | 1.5 | 75 |
| (2) | 25% CAUSTIC (PRE-MIXER) (2.66 lbs/gal) | 300 | 900 | 75 | 24 | 1200 |
| (3) | 37% FERRIC CHLORIDE (4.27 lbs/gal) | 352 | 703 | 234 | 45 | 2252 |
| (4) | AMMONIA | | | | 0.5 | 25 |
| (5) | CHLORINE | | | | 1.5 | 75 |
| (6) | FLOCCULANT AID POLYMER (0.5% SOLUTION) | 60 | 120 | 40 | .075 | 3.8 |
| (7) | CHLORINE (PRE-FILTER) | | | | 1.0 | 50 |
| (8) | 25% CAUSTIC (PRE-FILTER) | 188 | 470 | 62 | 15 | 750 |
| (9) | 25% CAUSTIC (POST-FILTER) (2.66 lbs/gal) | 188 | 470 | 62 | 15 | 750 |
| (10) | CHLORINE (POST-FILTER) | | | | 2.5 | 125 |
| (11) | AMMONIA (POST-FILTER) | | | | 1.0 | 50 |
| (12) | SODIUM FLUORIDE (4% SOLUTION, NaF) | 100 | 150 | 80 | 1.0 | 50 |
| (13) | ORTHOPHOSPHATE CORROSION INHIBITOR (11.3 lbs/gal) | 12 | 53 | 3 | 4.0 | 200 |
| (14) | CHLORINE (POST-CLEARWELL) | | | | 1.0 | 50 |
| (15) | AMMONIA (POST-CLEARWELL) | | | | 0.3 | 15 |

NOTES:
 1. 20 MIN. BACKWASH @ 4000 GPM
 2. 15 MIN. FILTER TO WASTE @ 1064 GPM
 3. 4 CELLS BACKWASH IN 24 HOURS
 4. DECANT FROM LAGOONS 300 GPM OR 500 GPM

LEGEND



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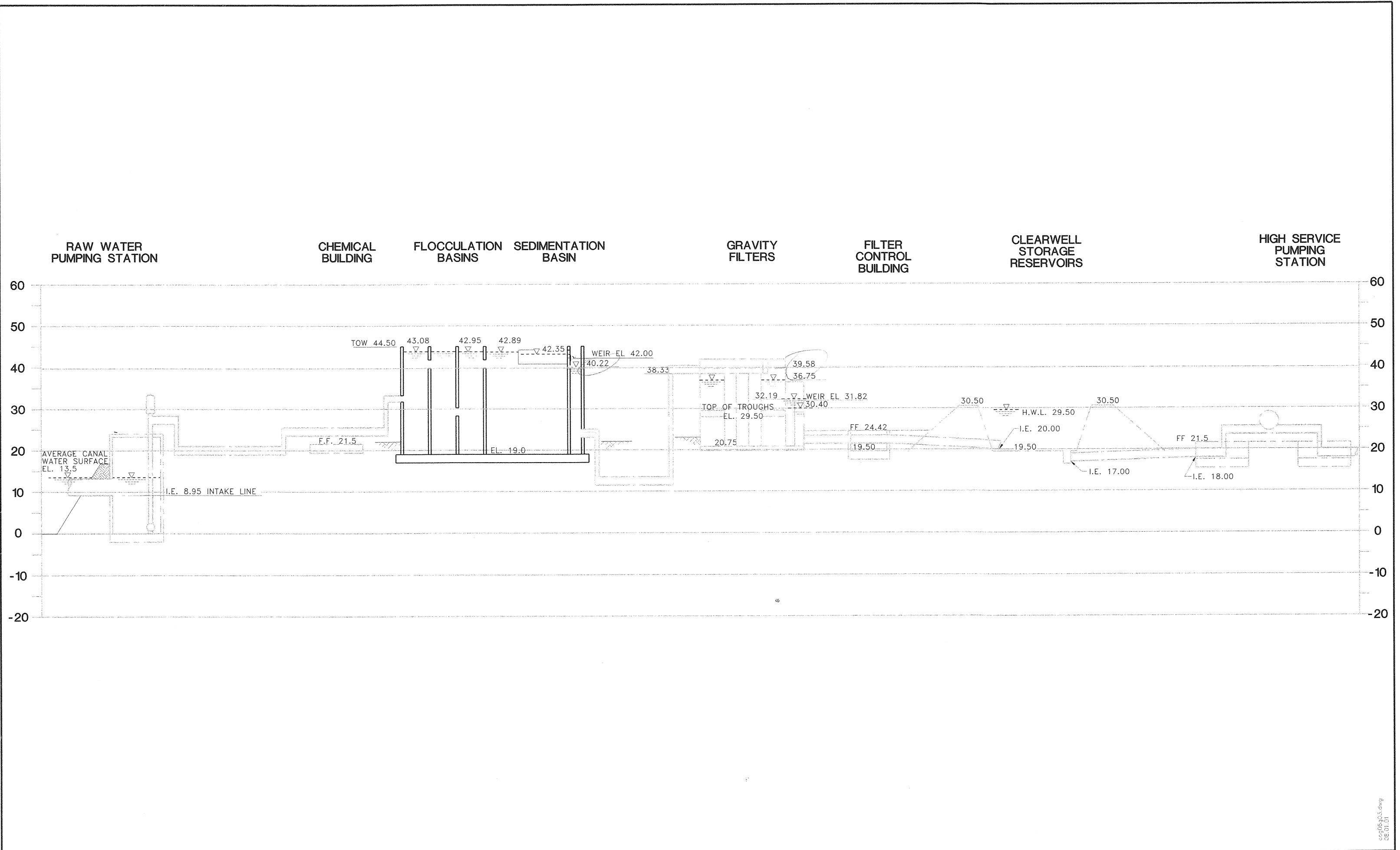
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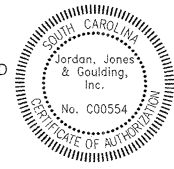
CITY OF GEORGETOWN
SOUTH CAROLINA



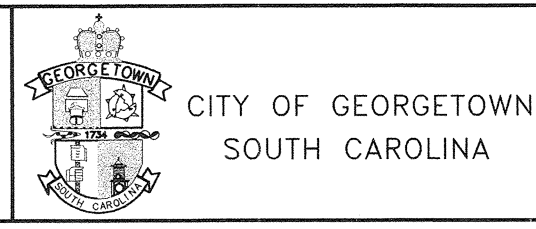
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
|--|------------------|---------------------|---------|
| PROCESS FLOW DIAGRAM | | | |
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2000 | GO.2 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: NONE | 1 SHEET |



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| | | | |
|--|------------------|---------------------|---------|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| HYDRAULIC PROFILE | | | |
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2001 | GO.3 |
| DRAWN: RB | JOB NO. 2193.006 | SCALE: NONE | 1 SHEET |
| | | | REV |

c:\p06\g03.dwg
08.01.01

EDGE OF PAVEMENT

EDGE OF PAVEMENT

ANTUAN HAYBANK ROAD

CIVIL LEGEND

EXISTING FEATURES

- STRUCTURE/FEATURE
- CONCRETE PAVING/SIDEWALK
- BITUMINOUS PAVING
- TO BE ABANDONED
- ITEM TO BE RELOCATED/REMOVED
- PIPE WITH SIZE AND DESIGNATION
- HYDRANT
- VALVE
- SPOT ELEVATION
- INTERMEDIATE CONTOUR
- PROMINENT CONTOUR
- OVERHEAD ELECTRIC LINE
- FENCE
- TELEPHONE PEDESTAL
- TELEVISION PEDESTAL
- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- LAMP POST
- CATCH BASIN

NEW FEATURES

- BUILDING/STRUCTURE/TANK
- CONCRETE PAVING/SIDEWALK
- BITUMINOUS PAVING
- INTERMEDIATE CONTOUR
- PROMINENT CONTOUR
- SPOT ELEVATION
- GRADE TO DRAIN
- PIPE WITH FLOW STREAM, SIZE AND MATERIAL
- SOIL BORING
- PIPE WITH FITTING
- CAP OR PLUG
- PROCESS MANHOLE
- INLET
- ELECTRIC MANHOLE
- TRANSFORMER
- DATA HIGHWAY DUCTBANK
- FENCE
- SILT FENCE
- BOLLARD
- COORDINATE POINT

CONCRETE HEADWALL
TOP=19.09

CATCH BASIN
TOP=18.55
RW=11.55

STORM DRAIN MANHOLE
TOP=18.07
RW=18.22
INV. OUT=15.17

N 939.95
E 1115.15

NPDES MONITORING STATION

CATCH BASIN
TOP=18.55
RW=11.55

CONCRETE CURB & GUTTER

8' CHAIN LINK FENCE

ASPHALT PAVEMENT

LAMP POST

N 980.00
E 1351.00

18' SLIDING GATE

N 910.00
E 1229.58

BH-5

4 EMERGENCY SCRUBBER

7

2 ADMINISTRATION & CHEMICAL BUILDING

ANHYDROUS AMMONIA TANK

6

2 FILTER CONTROL BUILDING

4

BH-4

UPFLOW CLARIFIER NO. 2

UPFLOW CLARIFIER NO. 1

3 BULK CHEMICAL STORAGE

5

BH-1

N 811.42
E 1352.20

1 FLOCCULATION/SETTLING TANKS

3

BH-2

N 749.00
E 1194.00

RAW WATER METER VAULT
TOP CONC.=25.48

9

SLUDGE VALVE PIT
TOP CONC.=24.50

N 722.00
E 1293.00

N 722.00
E 1389.00

FIELD OFFICE & CONTRACTOR LAYDOWN AREA

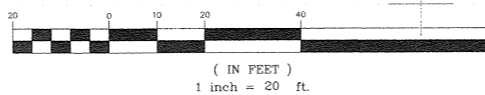
JUNCTION BOX
TOP RIM=21.67
BOTTOM INV.=17.17

JUNCTION BOX
TOP RIM=20.47
BOTTOM INV.=16.27

STRUCTURE LOCATION DATA

| STRUCTURE | POINT | COORDINATES | |
|-----------------------------|-------|-------------|---------|
| | | NORTH | EAST |
| FLOCCULATION/SETTLING TANKS | 1 | 749.00 | 1194.00 |
| FILTER CONTROL BUILDING | 2 | 822.64 | 1100.47 |
| BULK CHEMICAL STORAGE | 3 | 815.07 | 1334.67 |
| SCRUBBER | 4 | 919.07 | 1225.06 |

GRAPHIC SCALE



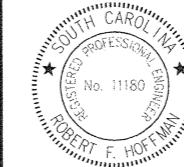
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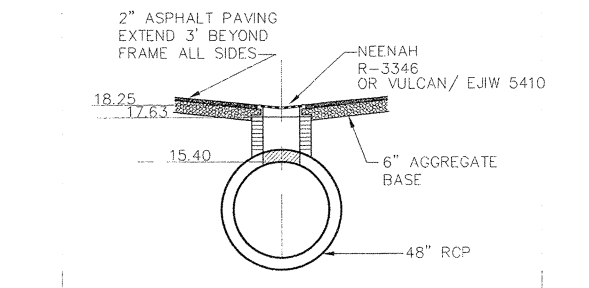
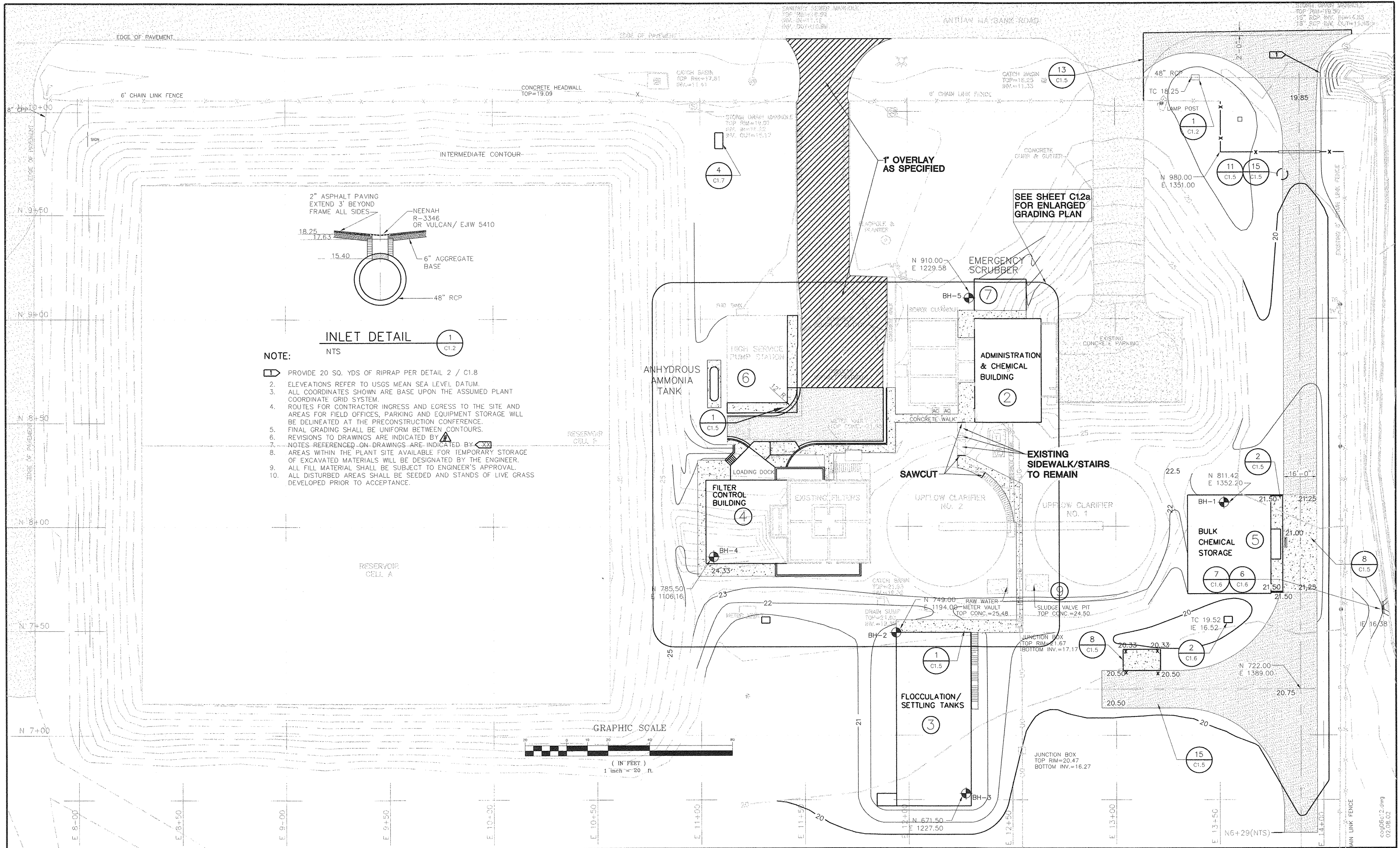
CITY OF GEORGETOWN
SOUTH CAROLINA



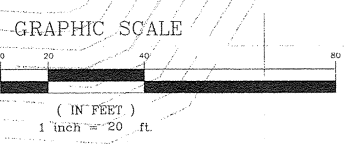
CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

LAYOUT PLAN

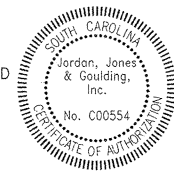
| | | | | |
|---------------|------------------|--------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 200 | C1.1 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: 1" = 20' | SHEET | REV |



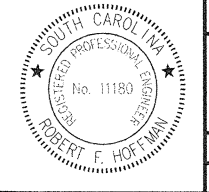
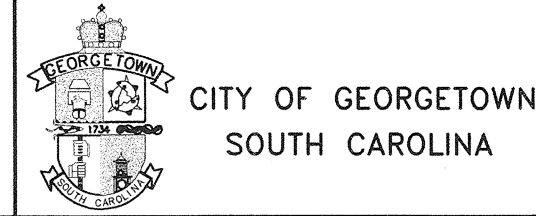
- NOTE:**
- 1. PROVIDE 20 SQ. YDS OF RIPRAP PER DETAIL 2 / C1.8
 - 2. ELEVATIONS REFER TO USGS MEAN SEA LEVEL DATUM.
 - 3. ALL COORDINATES SHOWN ARE BASE UPON THE ASSUMED PLANT COORDINATE GRID SYSTEM.
 - 4. ROUTES FOR CONTRACTOR INGRESS AND EGRESS TO THE SITE AND AREAS FOR FIELD OFFICES, PARKING AND EQUIPMENT STORAGE WILL BE DELINEATED AT THE PRECONSTRUCTION CONFERENCE.
 - 5. FINAL GRADING SHALL BE UNIFORM BETWEEN CONTOURS.
 - 6. REVISIONS TO DRAWINGS ARE INDICATED BY [Symbol]
 - 7. NOTES REFERENCED ON DRAWINGS ARE INDICATED BY [Symbol]
 - 8. AREAS WITHIN THE PLANT SITE AVAILABLE FOR TEMPORARY STORAGE OF EXCAVATED MATERIALS WILL BE DESIGNATED BY THE ENGINEER.
 - 9. ALL FILL MATERIAL SHALL BE SUBJECT TO ENGINEER'S APPROVAL.
 - 10. ALL DISTURBED AREAS SHALL BE SEEDED AND STANDS OF LIVE GRASS DEVELOPED PRIOR TO ACCEPTANCE.



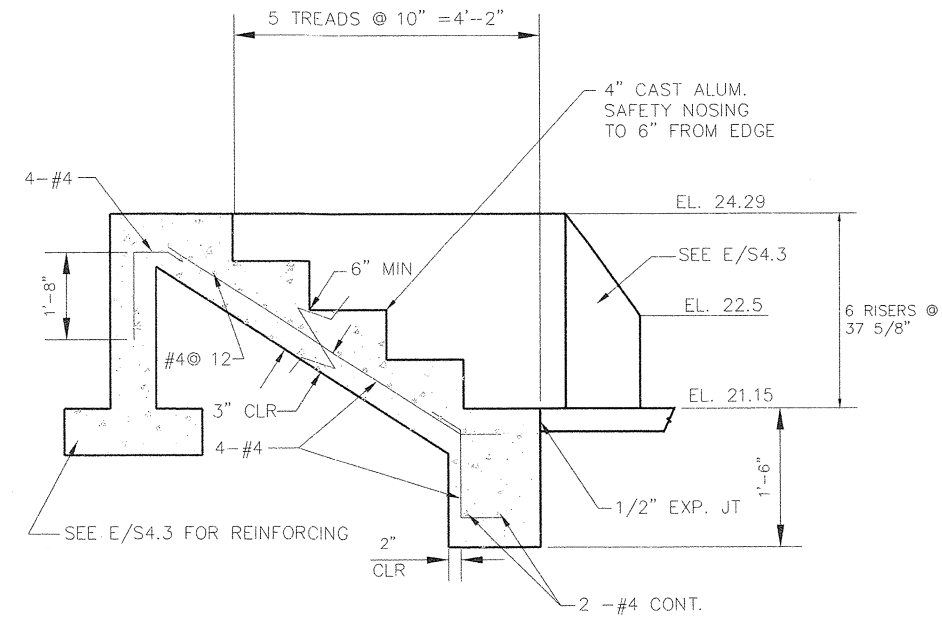
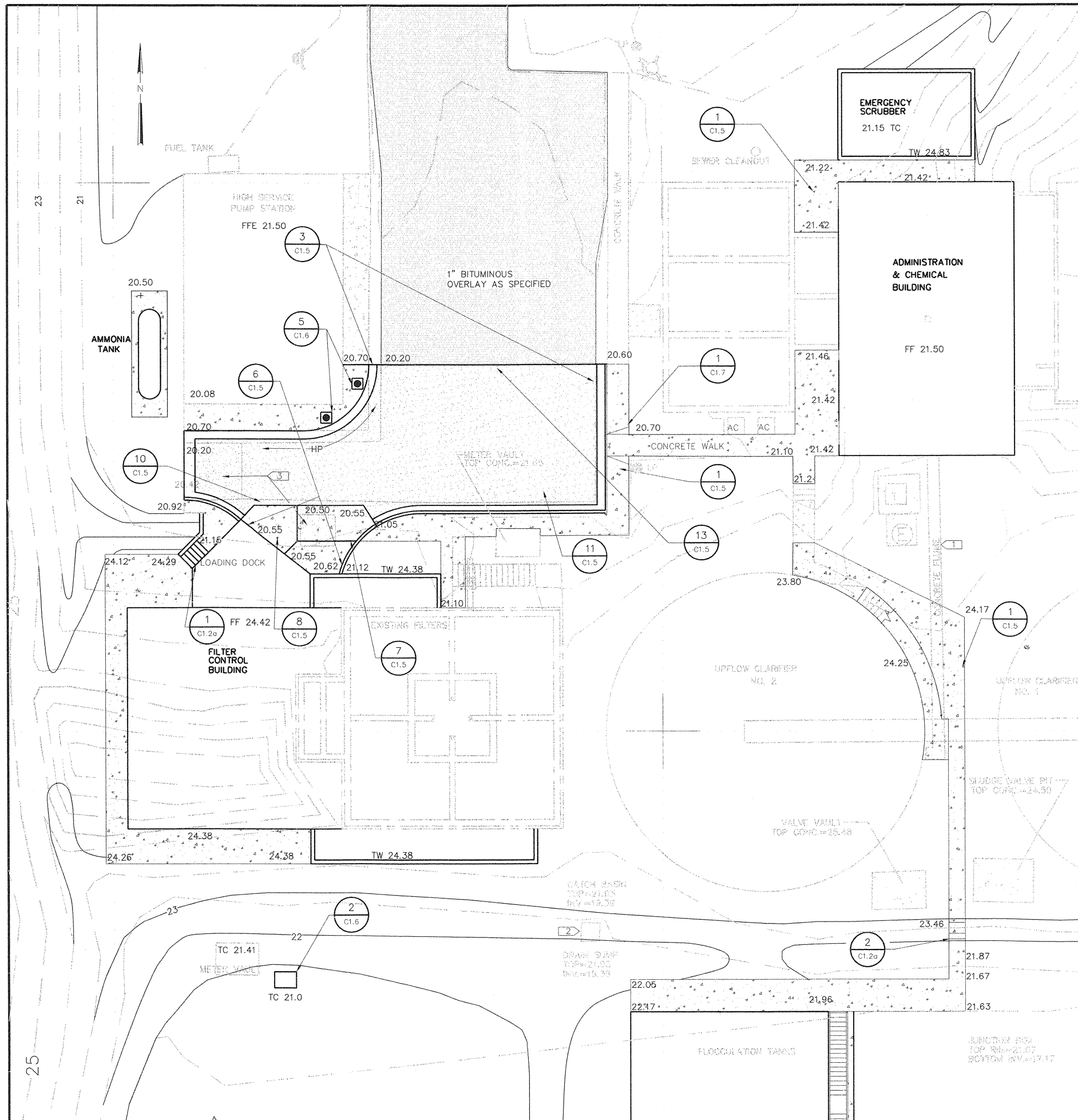
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| 0 | 12-15-99 | INITIAL ISSUE |
| NO. | DATE | DESCRIPTION OF REVISION |

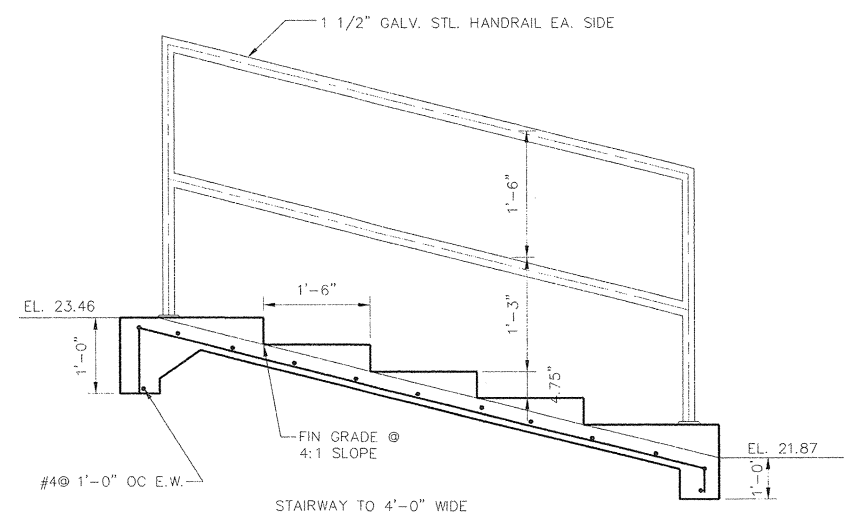


| | | | |
|--|------------------|---------------------|------|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| GRADING PLAN | | | |
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2001 | C1.2 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: 1" = 20' | 1 |
| | | | REV |



NOTES:

- 1 REMOVE PIPE CONCRETE PIPE TRENCH AND GRATING
- 2 REMOVE DRAIN SUMP
- 3 REMOVE CONCRETE PAD.



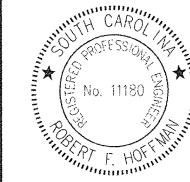
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| 1 | 08-02-01 | RECORD DRAWING |
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CITY OF GEORGETOWN
SOUTH CAROLINA

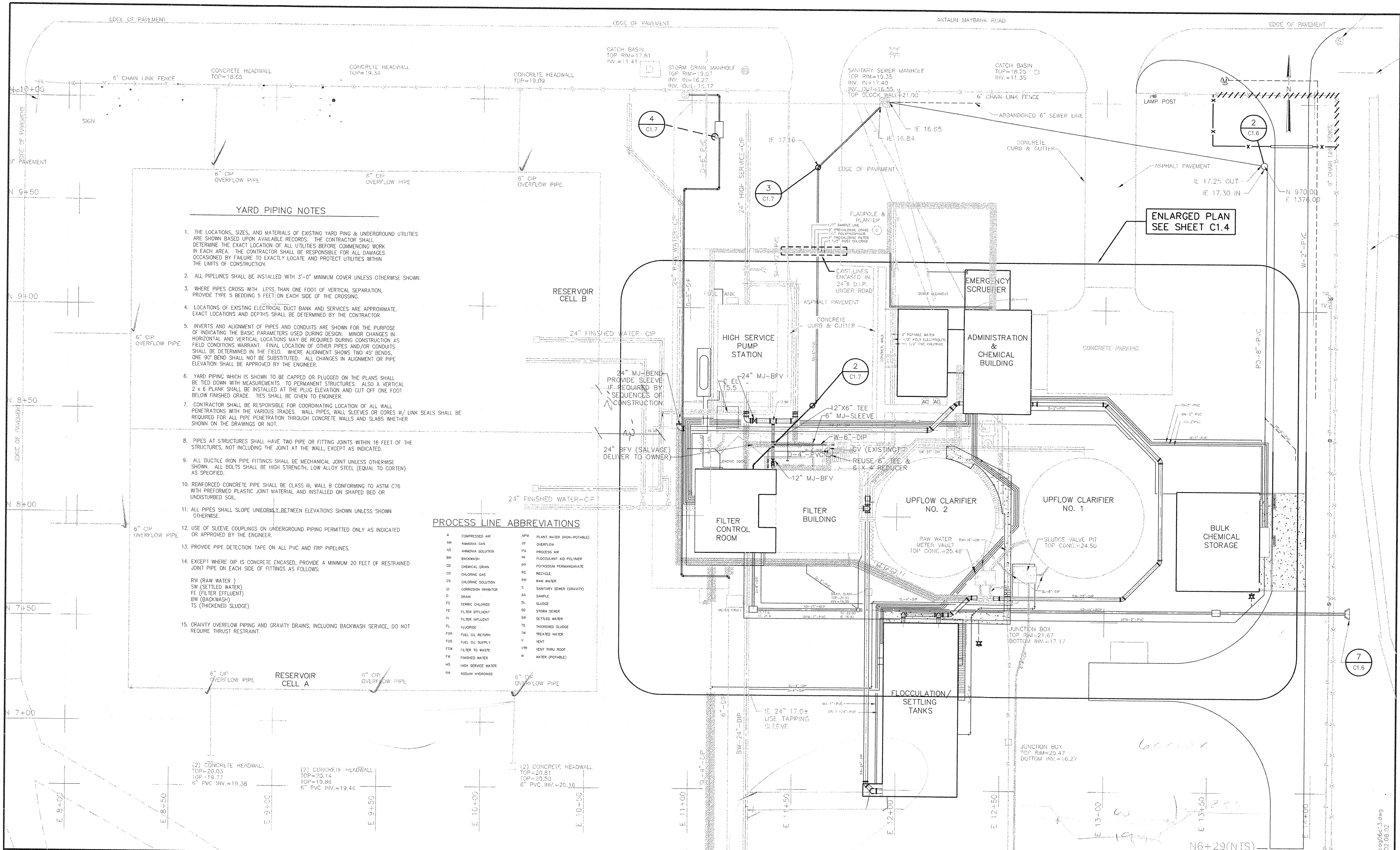


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

ENLARGED GRADING PLAN

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2001 | C1.2a | 1 |
| DRAWN: RB | JOB NO. 2193.006 | SCALE: 1" = 10' | SHEET | REV |

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02.08.02



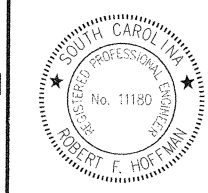
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CITY OF GEORGETOWN
 SOUTH CAROLINA

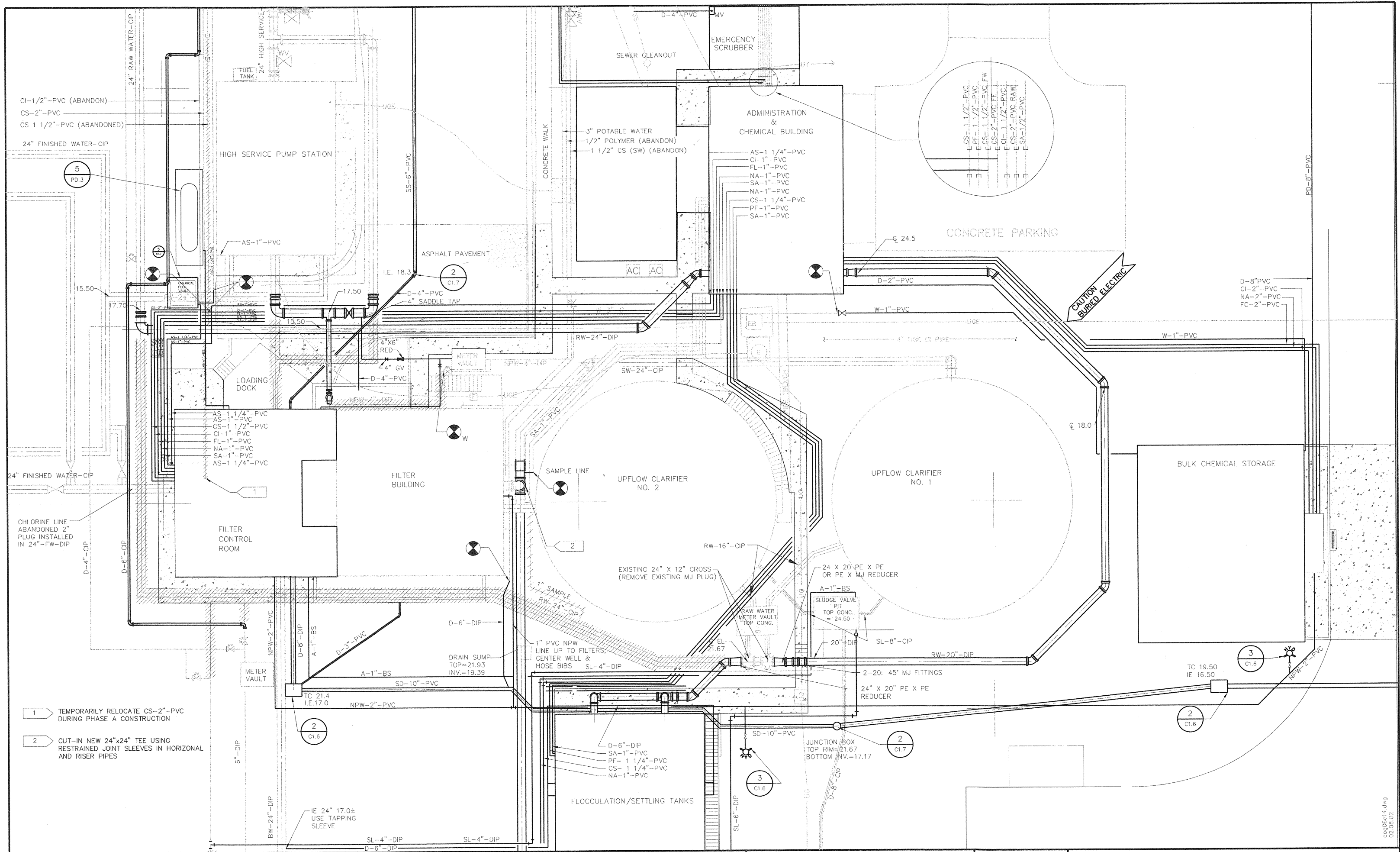


CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS

YARD PIPING PLAN

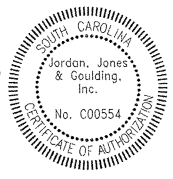
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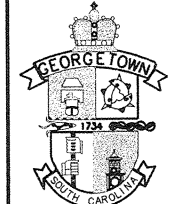


- 1 TEMPORARILY RELOCATE CS-2\"-PVC DURING PHASE A CONSTRUCTION
- 2 CUT-IN NEW 24\"x24\" TEE USING RESTRAINED JOINT SLEEVES IN HORIZONTAL AND RISER PIPES

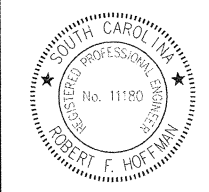
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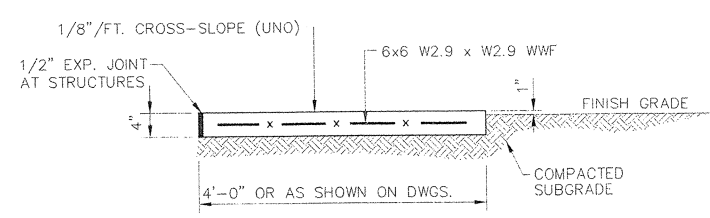
CITY OF GEORGETOWN
 SOUTH CAROLINA



CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS

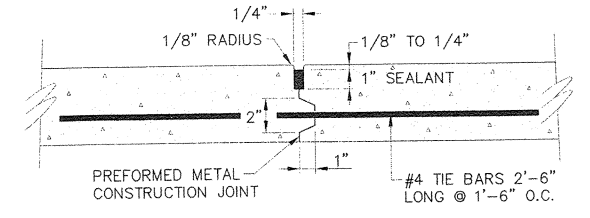
ENLARGED YARD PIPING PLAN

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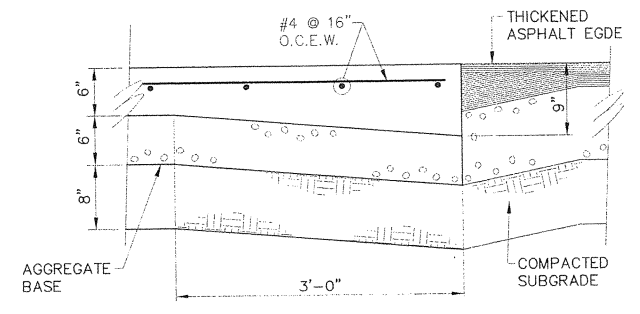


NOTE:
EXPANSION JOINTS IN CONCRETE SIDEWALKS SHALL BE SPACED AT THIRTY (30) FEET ON CENTER (MAXIMUM) AND AT ALL WALKWAY INTERSECTIONS. DUMMY GROOVE JOINTS SHALL BE PLACED AT SIX (6) FEET ON CENTER OR AS OTHERWISE SHOWN ON THE DRAWINGS.

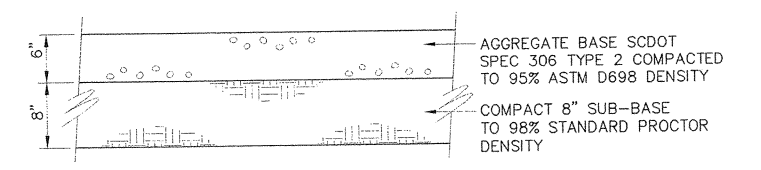
CONCRETE SIDEWALK 1
NTS



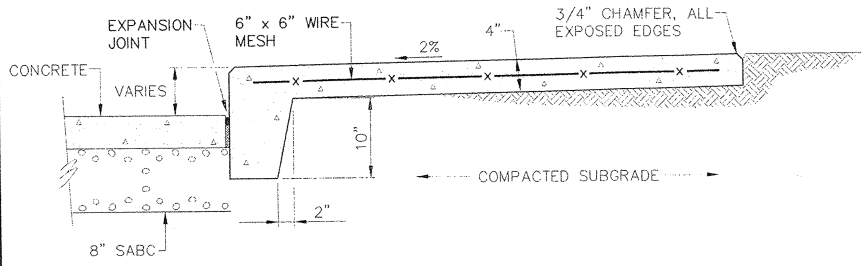
CONSTRUCTION JOINT 5
NTS



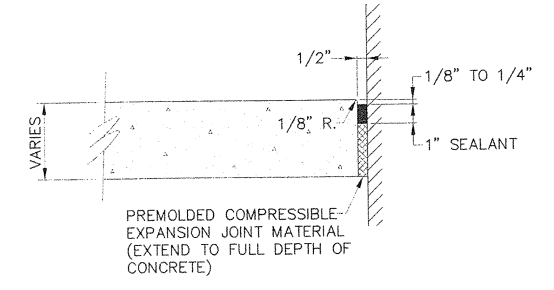
THICKENED CONCRETE EDGE 10
NTS



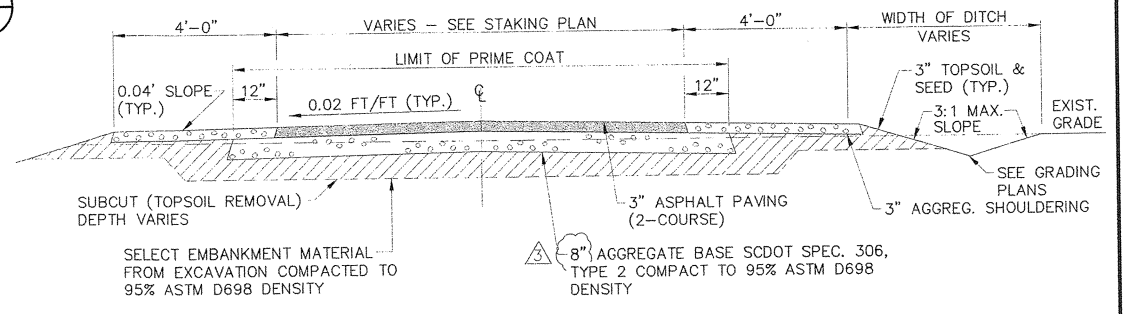
GRAVEL ROAD SECTION 14
NTS



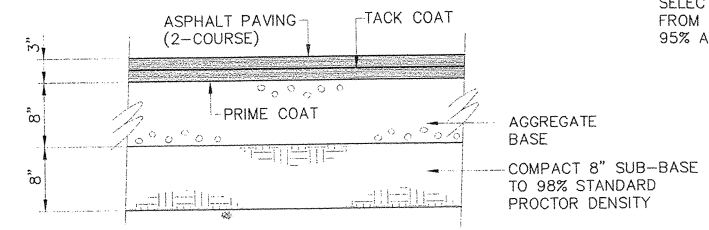
INTEGRAL CURB AND WALK 2
NTS



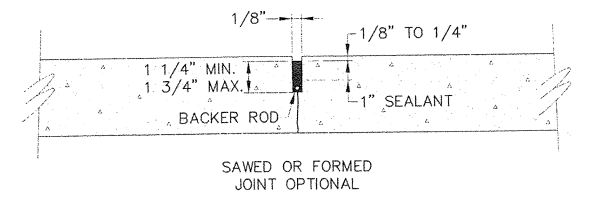
EXPANSION JOINT 6
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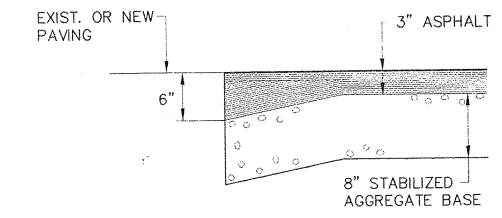
TYPICAL ASPHALT ROAD SECTION 15
NTS



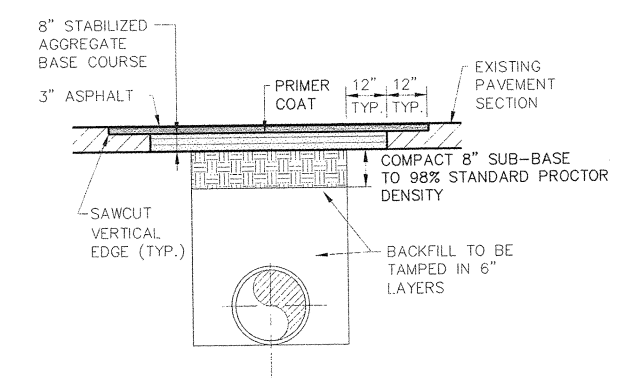
ASPHALT PAVING SECTION 11
NTS



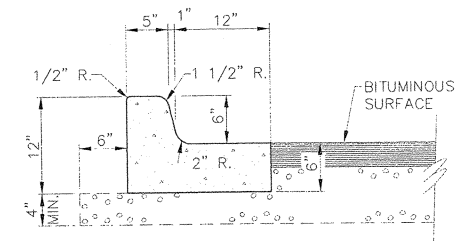
CONTRACTION JOINT 7
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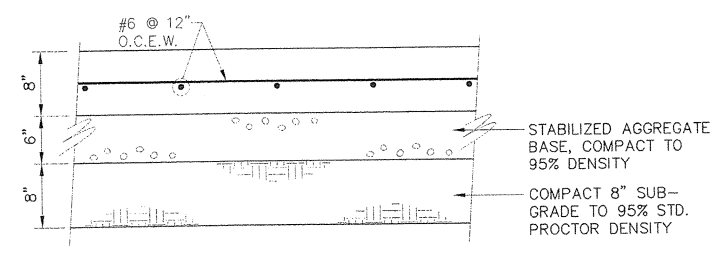
THICKENED ASPHALT EDGE 12
NTS



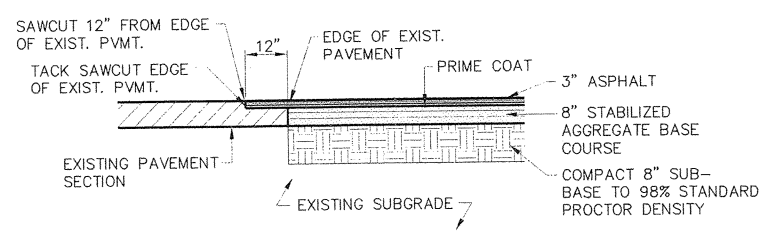
PAVEMENT REMOVAL & REPLACEMENT DETAIL 16
NTS



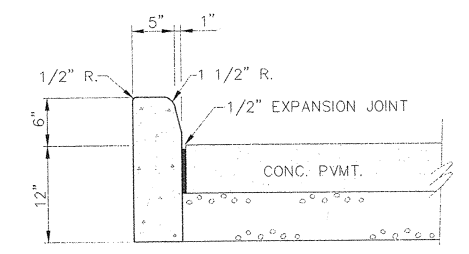
CURB AND GUTTER 3
NTS



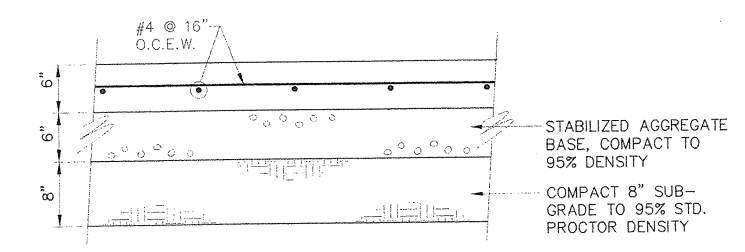
HEAVY CONCRETE PAVING SECTION 8
NTS



NEW PAVEMENT TRANSITION 13
NTS



STAND UP CURB 4
NTS



REGULAR CONCRETE PAVING SECTION 9
NTS

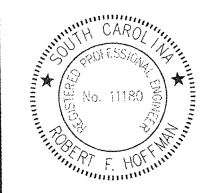
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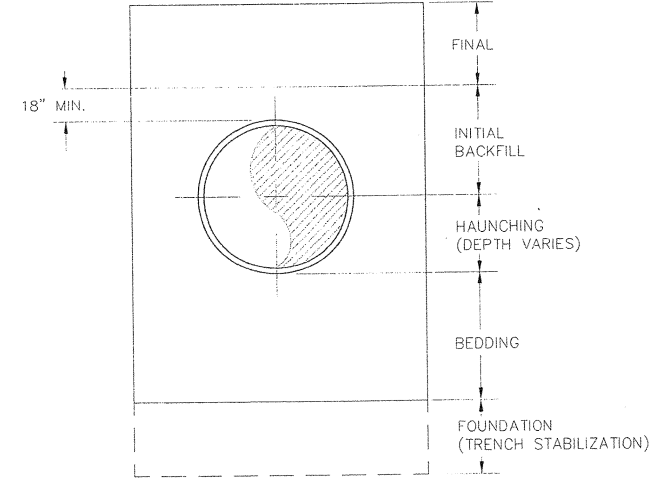
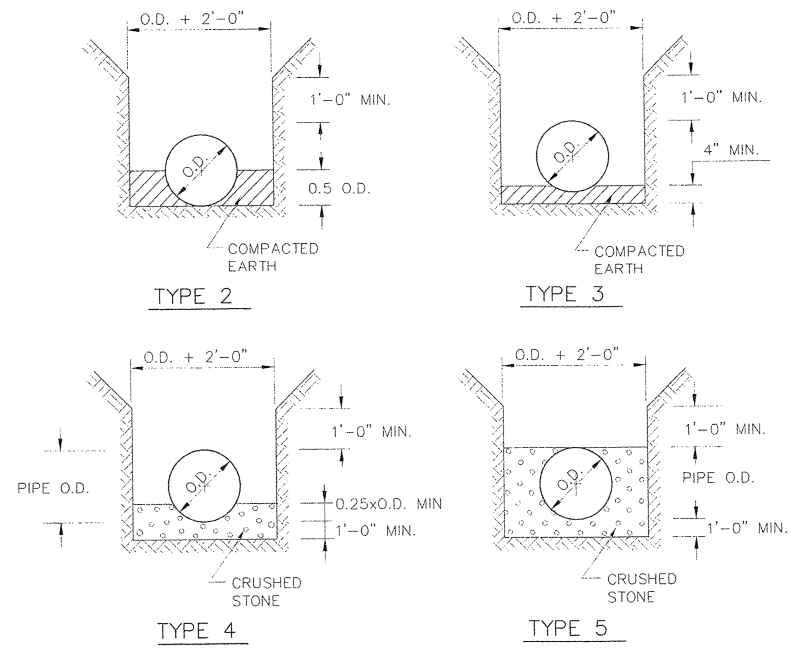


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SOUTH CAROLINA

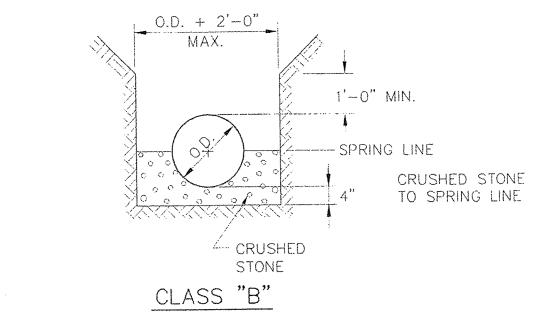


| | | | |
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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| MISCELLANEOUS PAVING DETAILS | | | |
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2000 | C1.5 |
| DRAWN: RB | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

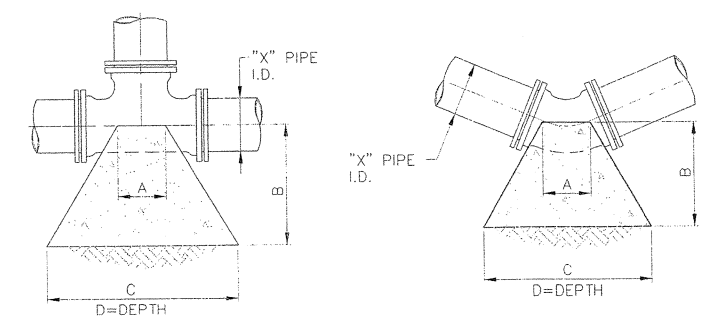
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TRENCH TERMINOLOGY DETAIL
N.T.S.



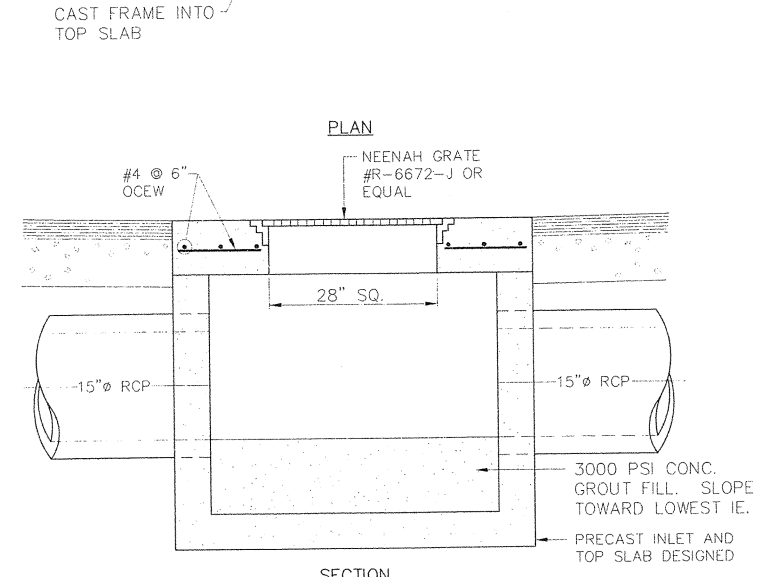
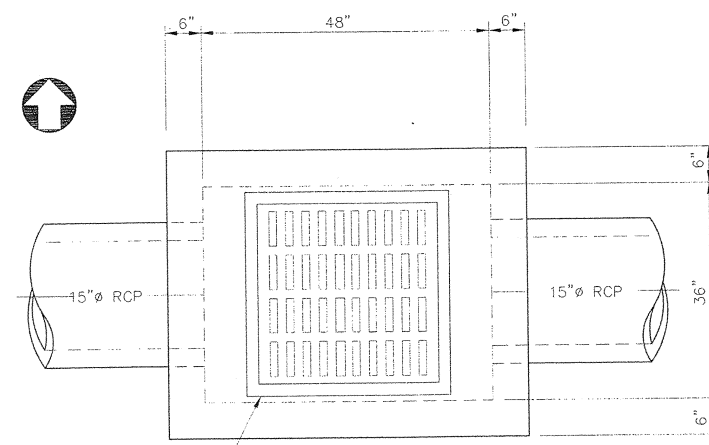
PIPE BEDDING AND HAUNCHING DETAILS
N.T.S.



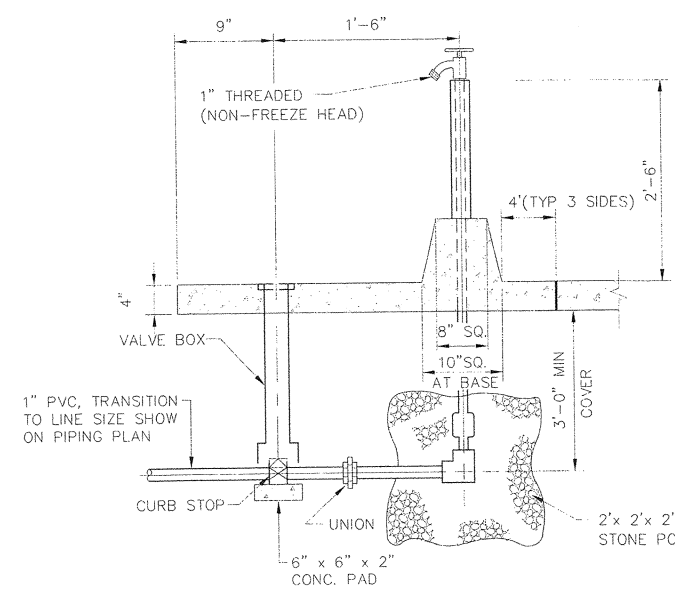
| BLOCKING DIMENSIONS | | | | | |
|---------------------|-----|-------|-------|-------|---|
| TEES | X* | A | B | C | D |
| 2", 4" & 6" | 10" | 2'-3" | 3'-3" | 2'-0" | |
| 2", 4" & 6" | 10" | 1'-6" | 2'-6" | 2'-0" | |
| 2", 4" & 6" | 10" | 2'-9" | 4'-0" | 2'-3" | |

150 PSI TEST PRESSURE
1500 PSF SOIL BEARING
X* = DIAMETER OF PIPE TO BE BLOCKED
ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED EARTH.

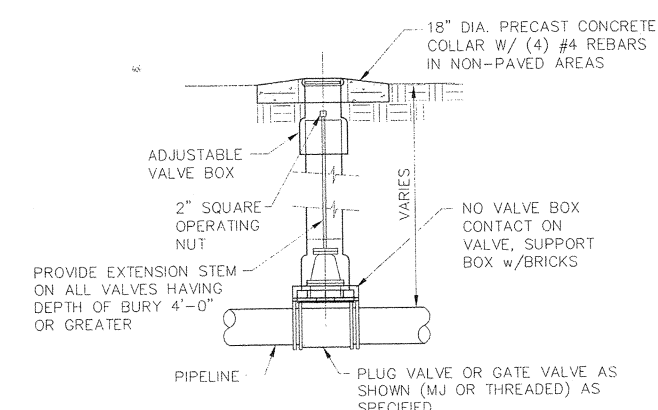
TYPICAL BLOCKING DETAIL
NTS



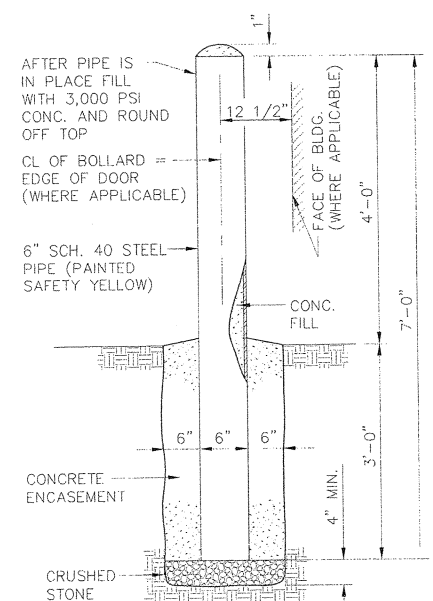
DROP INLET DETAIL
NTS



YARD HYDRANT DETAIL
NTS



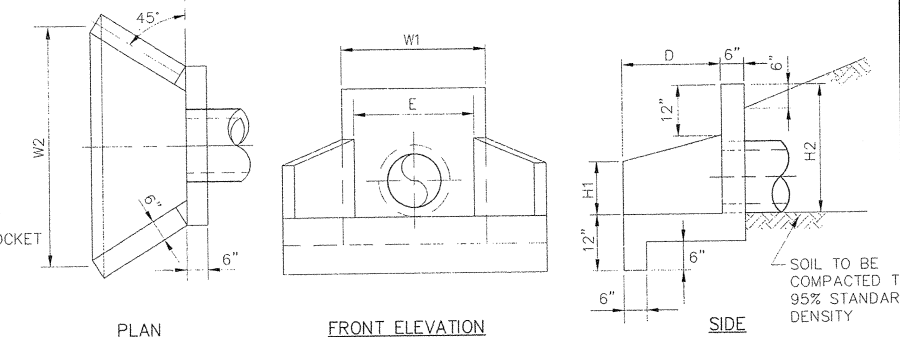
TYPICAL VALVE DETAIL
NTS



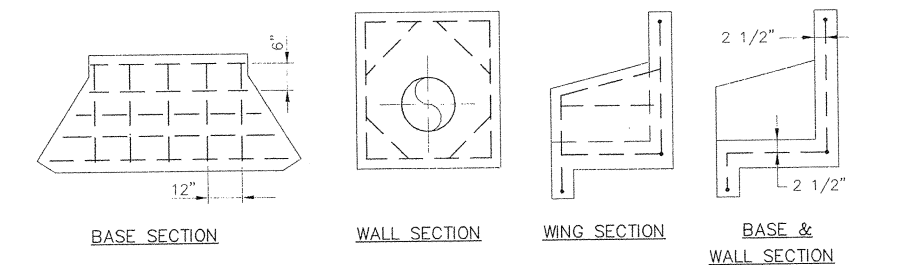
BOLLARD DETAIL
NTS

| HEADWALL DIMENSIONS | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|------|-------------------|
| PIPE INSIDE DIA. | W1 | W2 | H1 | H2 | D | E | WT. | SQ. FT. BASE AREA |
| 15" & 18" | 3'-8" | 6'-1" | 1'-9" | 3'-8" | 1'-6" | 2'-3" | 2100 | 990 |

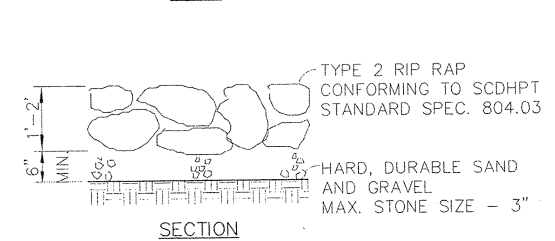
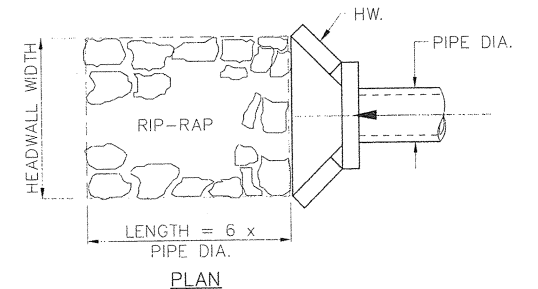
NOTES:
1. ALL CONCRETE SHALL BE 4000 PSI.
2. REINFORCEMENT STEEL SHALL BE 1/2" DIA. OF INTERMEDIATE GRADE.
3. CHAMFER ALL EXPOSED EDGES 3/4".



HEADWALL DETAIL
NTS



HEADWALL DETAIL
NTS



RIP-RAP PLACEMENT DETAIL
NTS

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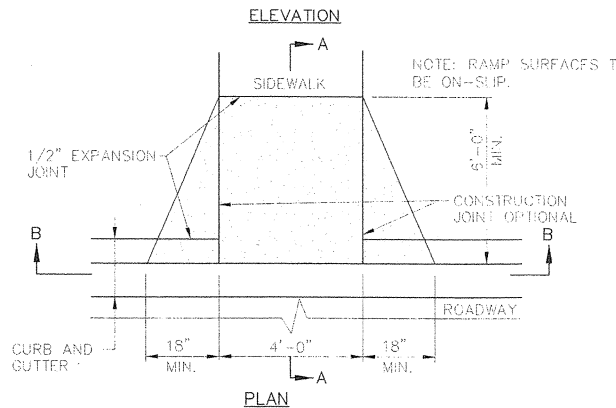
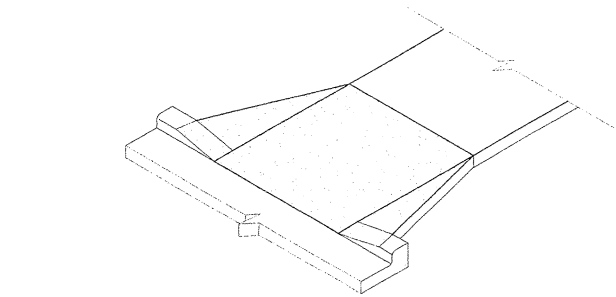


CITY OF GEORGETOWN
SOUTH CAROLINA

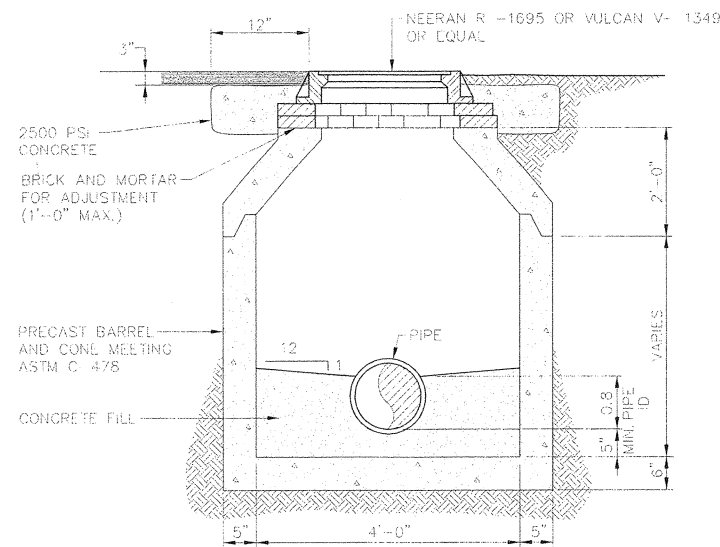
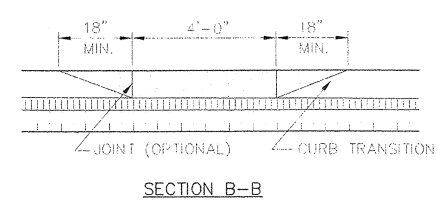
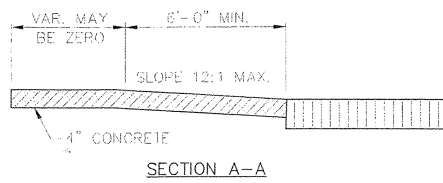


| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
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| MISCELLANEOUS DETAILS | | | |
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| DRAWN: RB | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 SHEET |

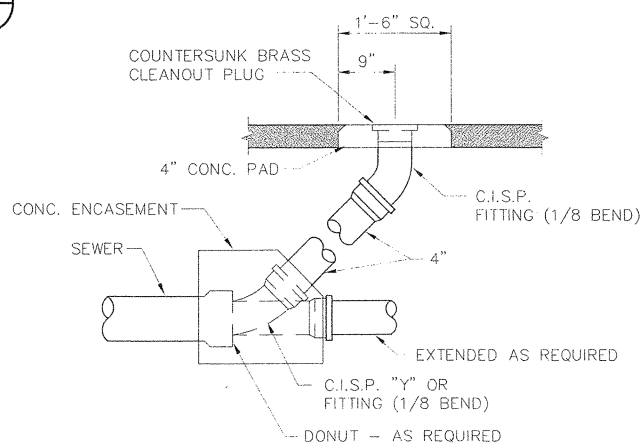
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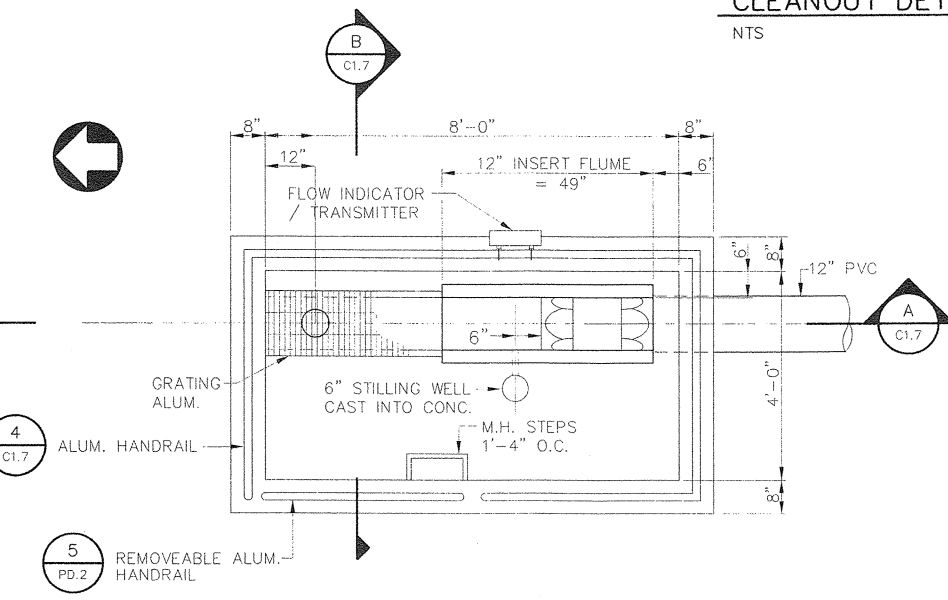
DOUBLE BEVELED HANDICAP RAMP (1)
NTS (NOT USED) C1.2



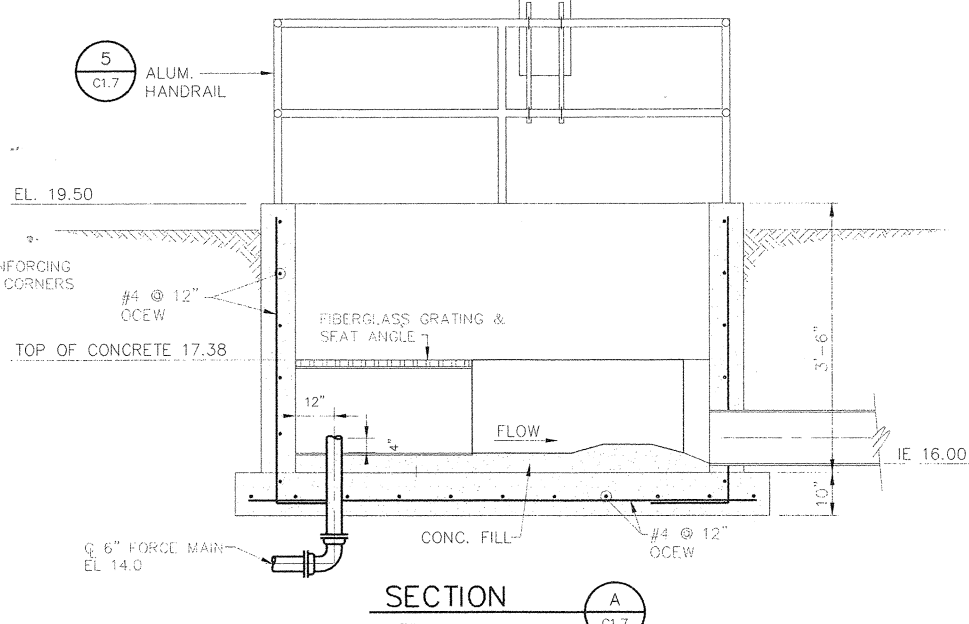
PRECAST SHALLOW MANHOLE DETAIL (2)
NTS C1.1



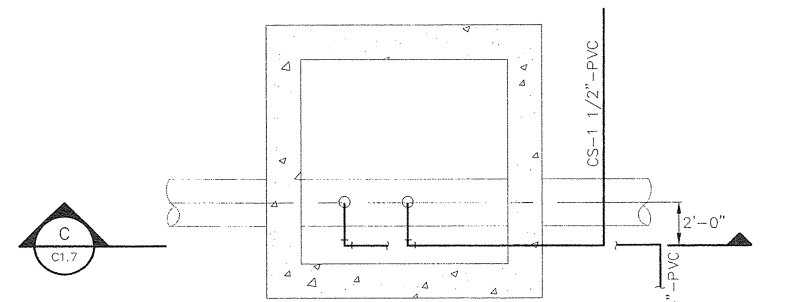
CLEANOUT DETAIL (3)
NTS C1.3



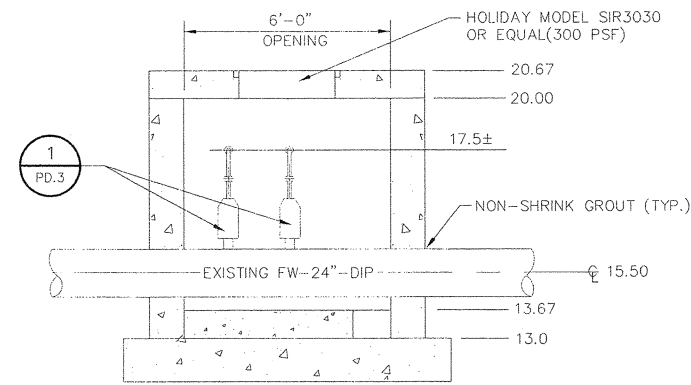
PLAN-METERING STATION (4)
NTS C1.7



SECTION A (5)
NTS C1.7

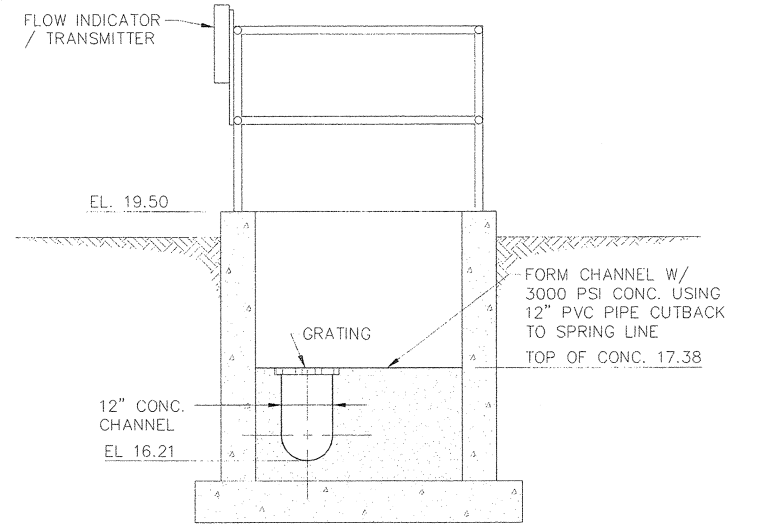


PLAN



SECTION C (1)
N.T.S. C1.7

CHEMICAL FEED VAULT (5)
N.T.S. C1.7



SECTION B (1)
NTS C1.7

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CITY OF GEORGETOWN
SOUTH CAROLINA

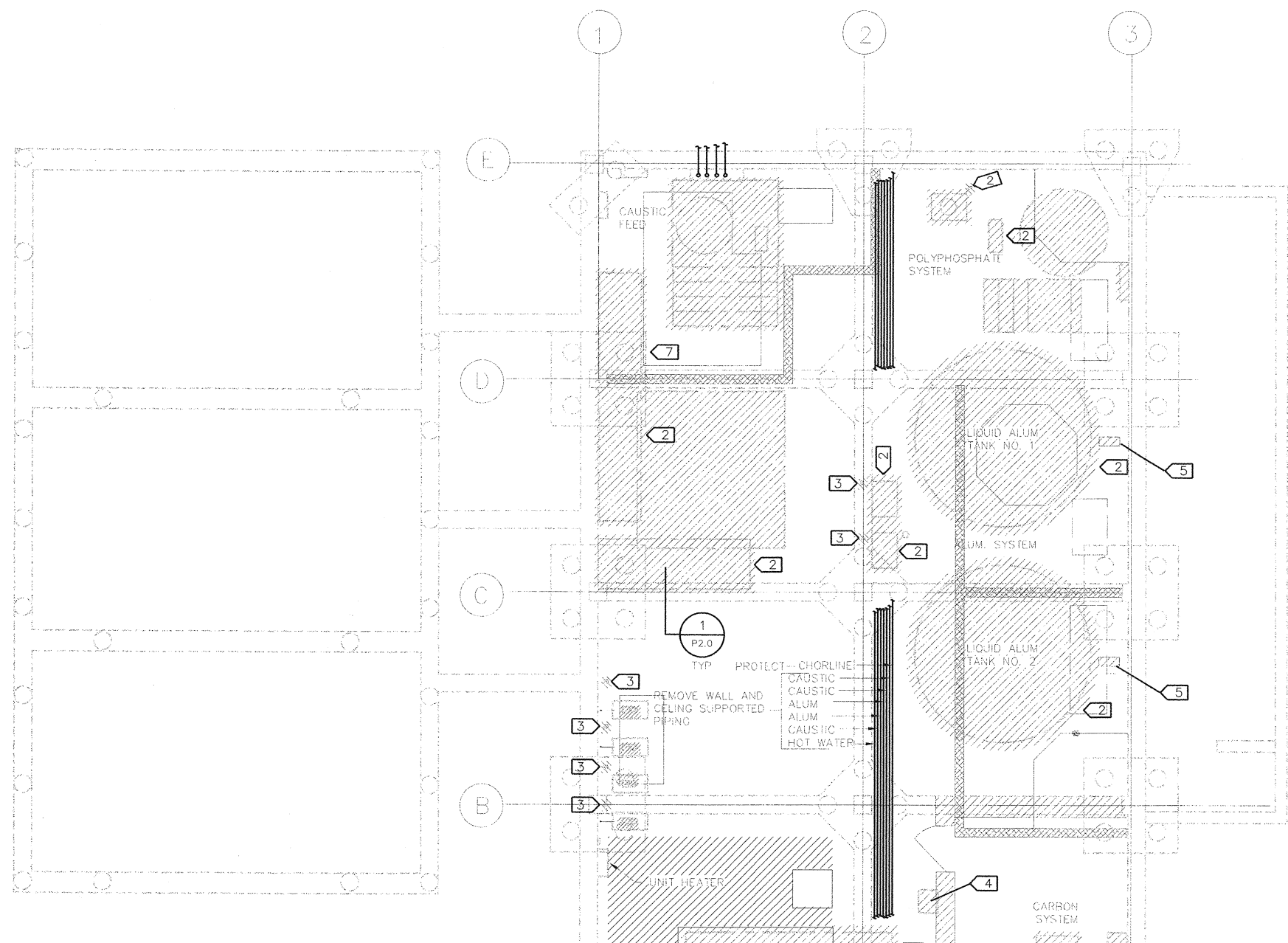


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

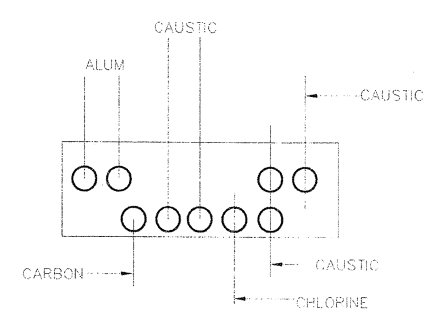
MISCELLANEOUS DETAILS

| | | | | |
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| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2000 | C1.7 | 1 |
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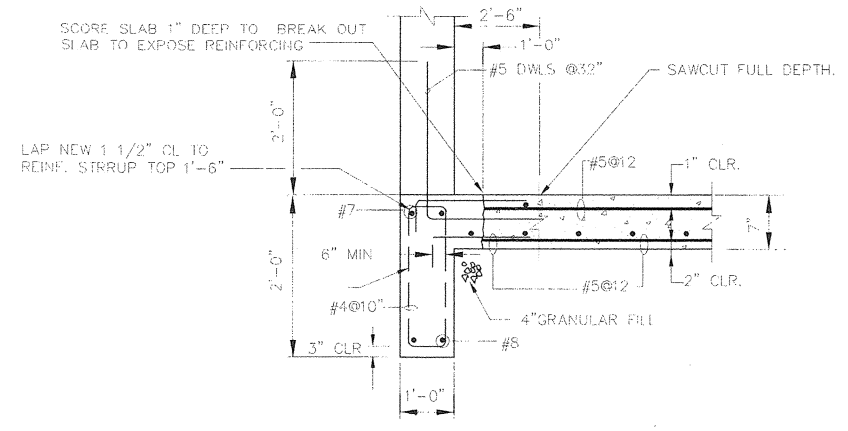
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02.08.02



FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"



EXISTING SOUTH WALL PENETRATIONS
NTS



REPLACEMENT FLOOR DETAIL
1
P2.0

- DEMOLITION NOTES**
- CROSS-HATCHED AREAS INDICATE THE LIMITS OF DEMOLITION WORK. SEE SPECIFICATION SECTIONS 02060 AND 02073 FOR EQUIPMENT DEMOLITION REQUIREMENTS.
 - SEE SPECIFICATION SECTIONS 02060 AND 02075 FOR FLOOR RESTORATION REQUIREMENTS FOLLOWING REMOVAL OF CONCRETE EQUIPMENT BASES, CURBS, TANK PADS, WALLS, ETC.
 - REMOVE ALL STRUCTURAL STEEL MEMBERS USED FOR MOUNTING EQUIPMENT SWITCHES.
 - REMOVE SINK AND ALL RELATED SUPPLY AND DRAIN PIPING.
 - CAP ALUM. FILL & VENT PIPING AT INSIDE FACE OF WALL.
 - PLUG/CAP ALL ABANDONED PENETRATIONS PER SPECIFICATION SECTION 02073.
 - SEE SPECIFICATION SECTION 16040 AND SEE SHEET 2.1 FOR ELECT. DEMOLITION.

(OLD CARBON)

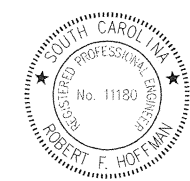
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| 0 | 12-15-99 | INITIAL ISSUE |

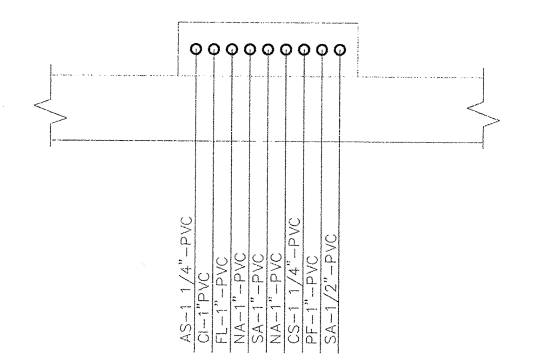
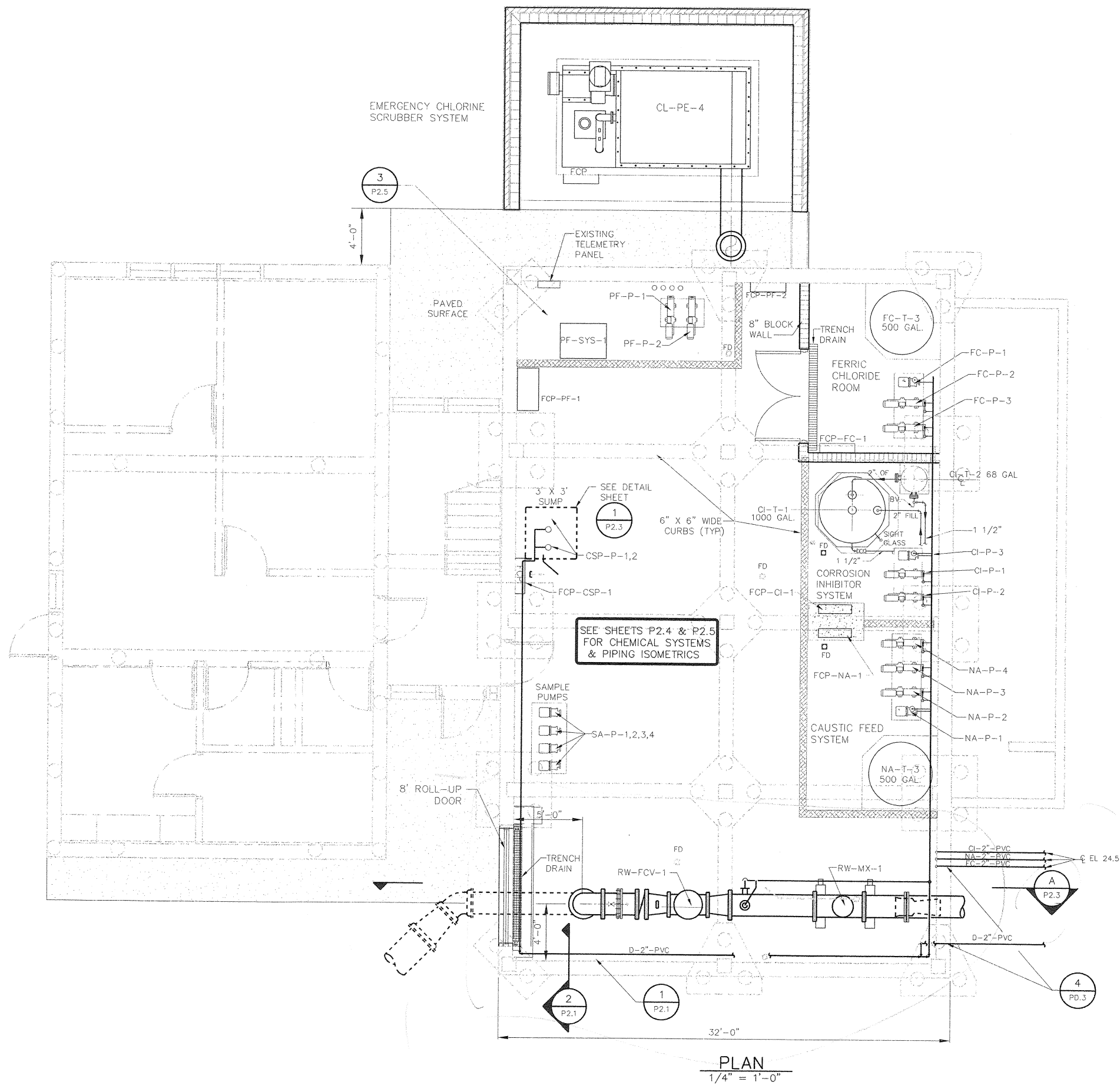


CITY OF GEORGETOWN
SOUTH CAROLINA

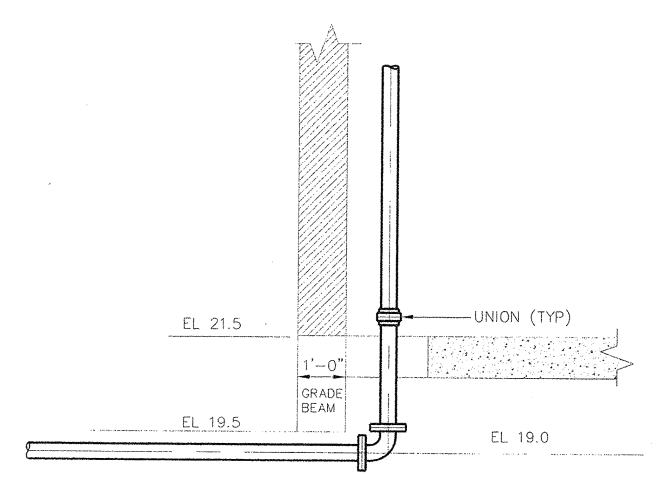


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|--|------------------|---------------------|----------|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| CHEMICAL BUILDING DEMOLITION PLAN | | | |
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2007 | P2.0 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 REV |

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FLOOR PENETRATION
NTS

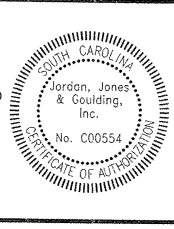


SECTION
NTS

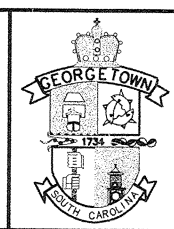
- NOTES:
1. ALL METERING PUMP BASES TO BE 1'-6" HIGH UNLESS OTHERWISE SHOWN.
 2. ALL TANKS PADS SHALL BE 4".
 3. EXPOSED RAW WATER LINE SHALL BE 18" DIP WITH REDUCTION TO 16" FOR 16" RW-FCV-1.
 4. RAW WATER STATIC MIXER (RW-MX-2) AND RAW WATER FLOW TUBE (FE308) SHALL BE 18".

PLAN
1/4" = 1'-0"

NOTES:
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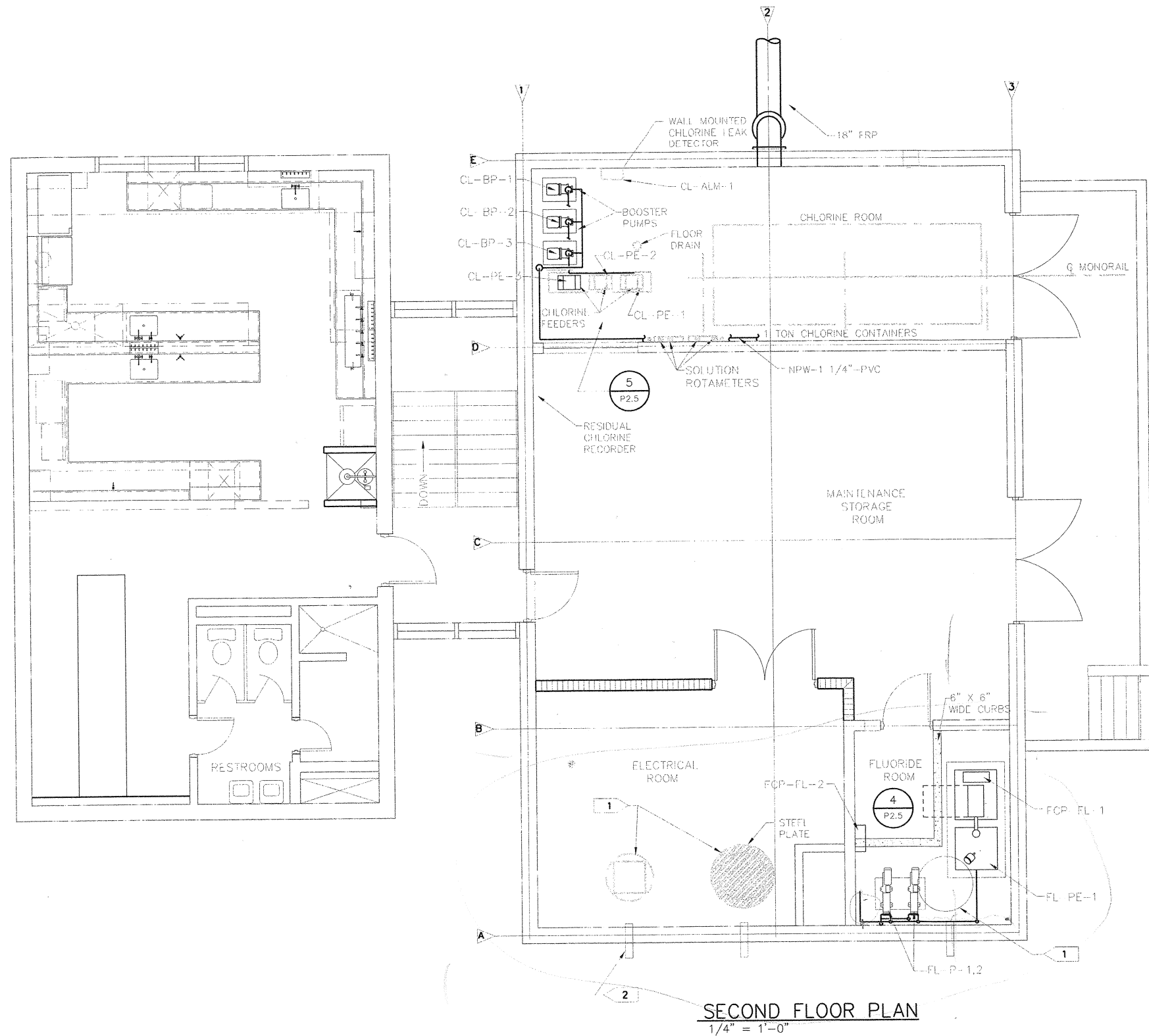
CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
**CHEMICAL BUILDING
FIRST FLOOR MODIFICATIONS**

| | | | | |
|--------------|------------------|--------------------|-------|-----|
| DESIGNED: BH | CHECKED: | DATE: NOVEMBER 200 | P2.1 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

c:\p06\p01.rwg
02.12.02



- NOTES:
- 1 - SEE DET. C/S7.1 FOR PATCH DETAIL
 - 2 - REMOVE DUST COLLECTOR VENTS AND PATCH MASONRY PER SPECIFICATION 02075

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08.01.01

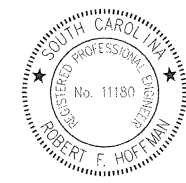
NOTES:
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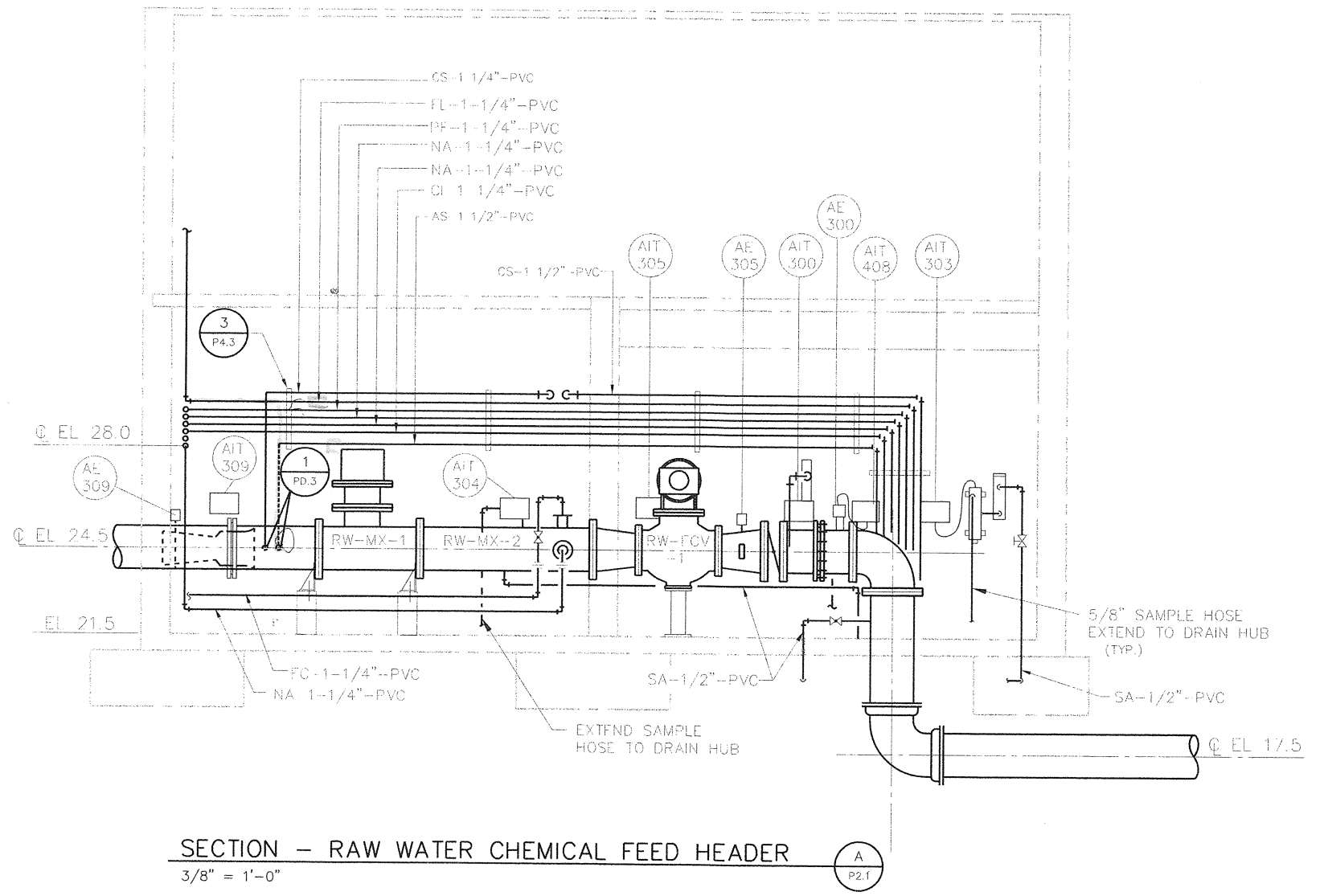
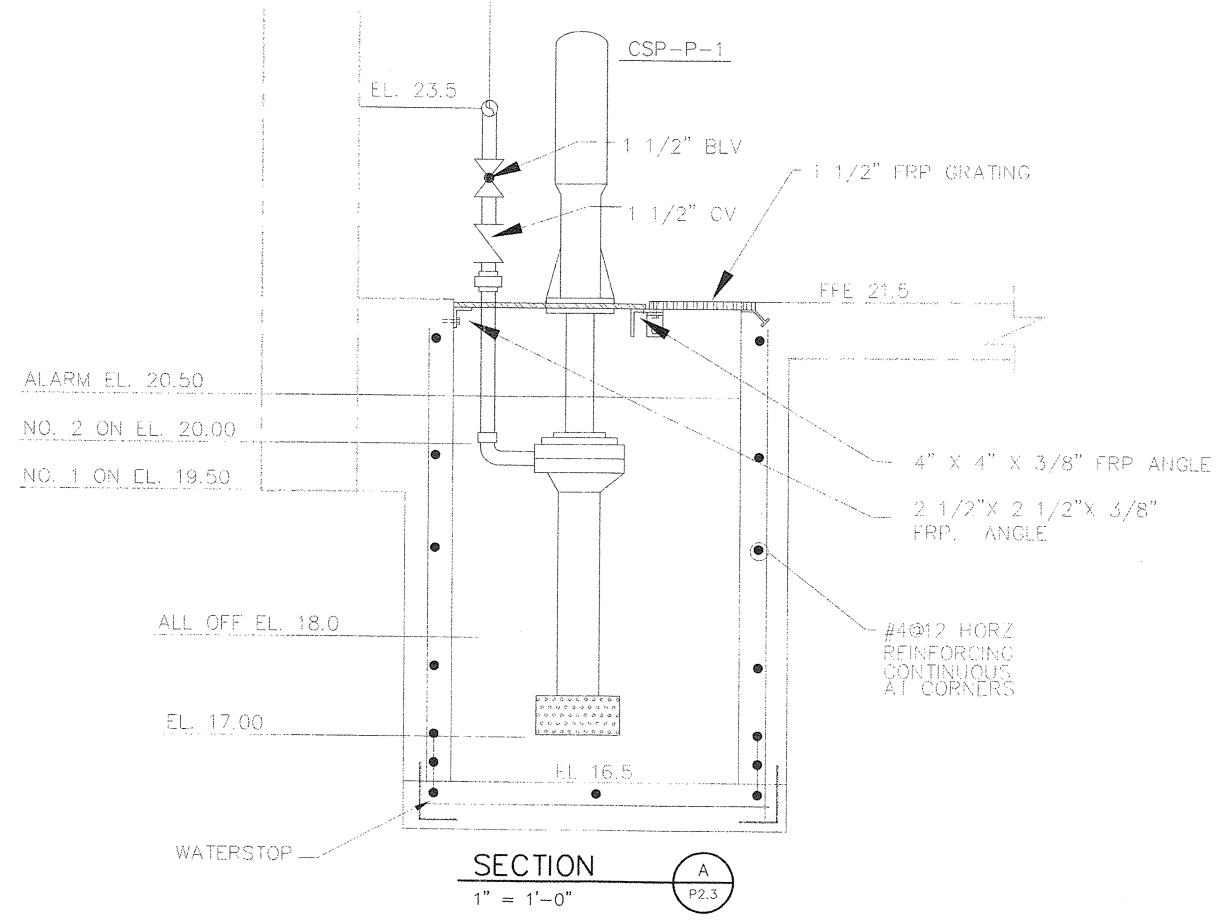
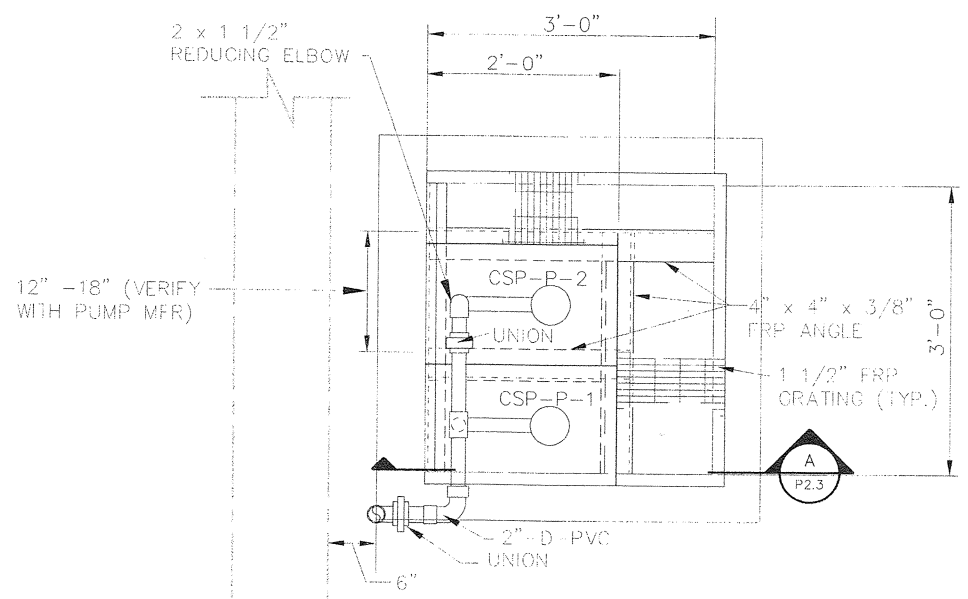
CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

CHEMICAL BUILDING
SECOND FLOOR MODIFICATIONS

| | | | | |
|--------------|------------------|--------------------|-------|-----|
| DESIGNED: BH | CHECKED: | DATE: NOVEMBER 200 | P2.2 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

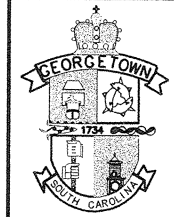


SECTION - RAW WATER CHEMICAL FEED HEADER
3/8" = 1'-0"

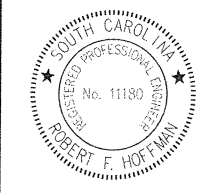
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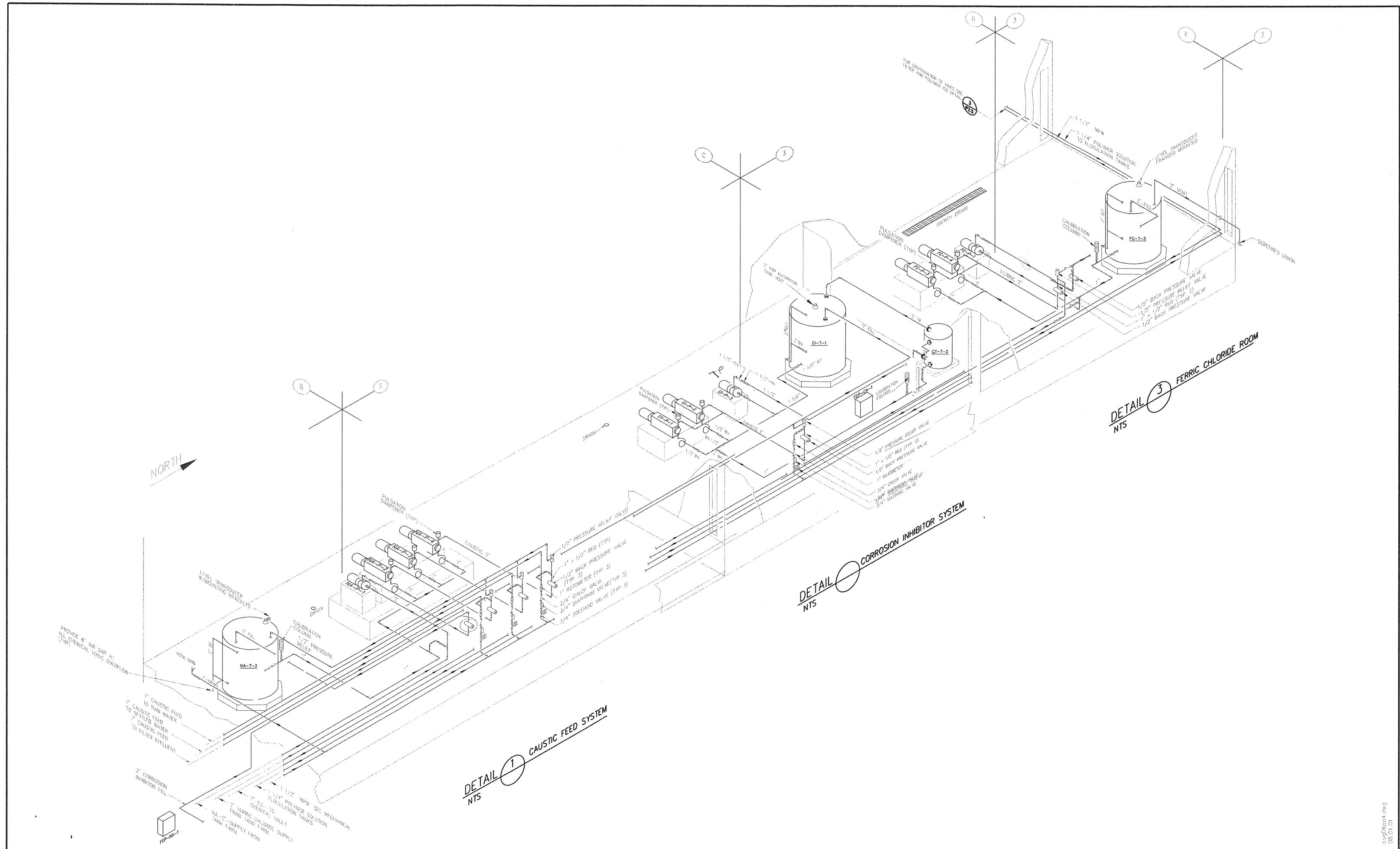
CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
CHEMICAL BUILDING
FIRST FLOOR SECTIONS AND DETAILS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2004 | P2.3 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: 1/2" = 1'-0" | SHEET | REV |

cro06sec3.dwg
08.01.01



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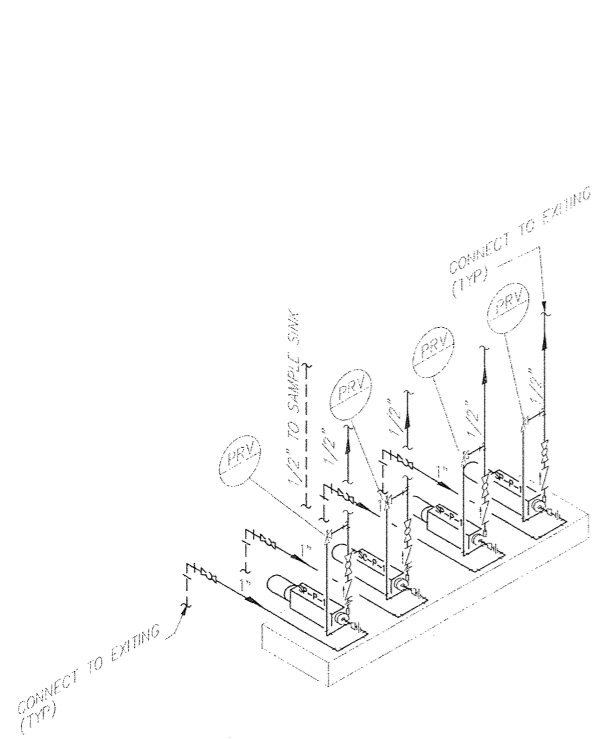
CITY OF GEORGETOWN
 SOUTH CAROLINA



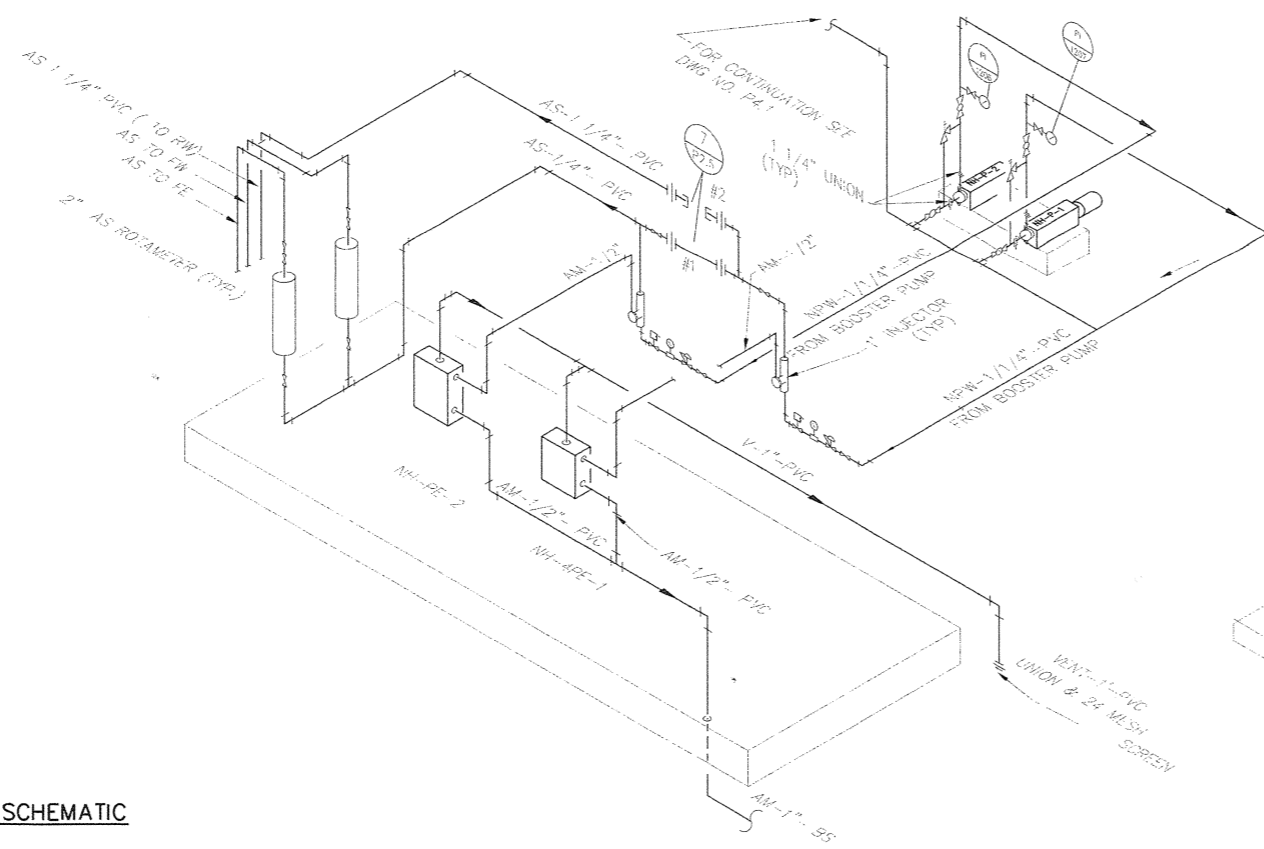
CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS
 CAUSTIC, FERRIC CHLORIDE,
 AND CORROSION INHIBITOR PIPING
 ISOMETRICS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2001 | P2.4 | 1 |
| DRAWN: ZWG | JOB NO. 2193.006 | SCALE: NONE | SHEET | REV |

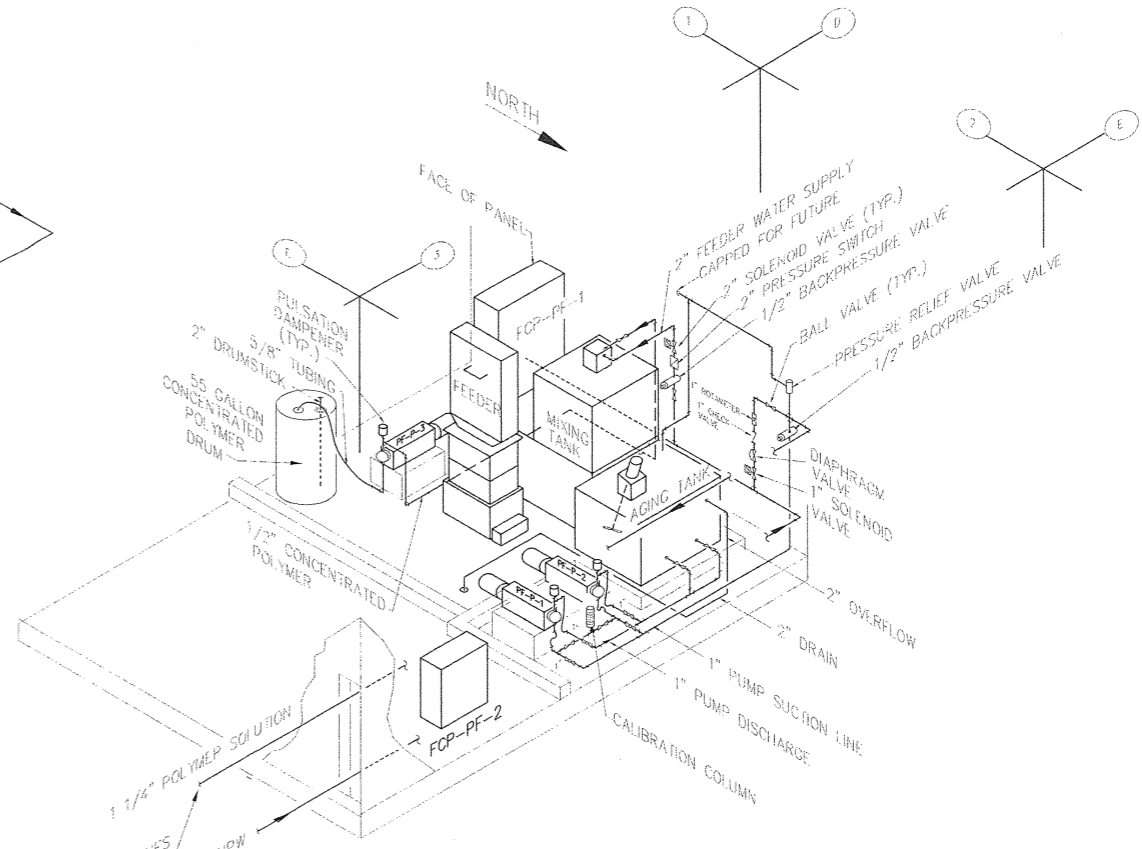
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08.01.01



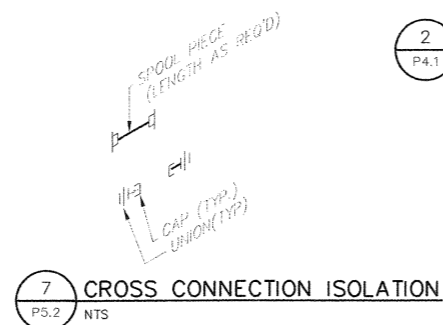
1 SAMPLE PUMP PIPING SCHEMATIC
P2.0
NTS



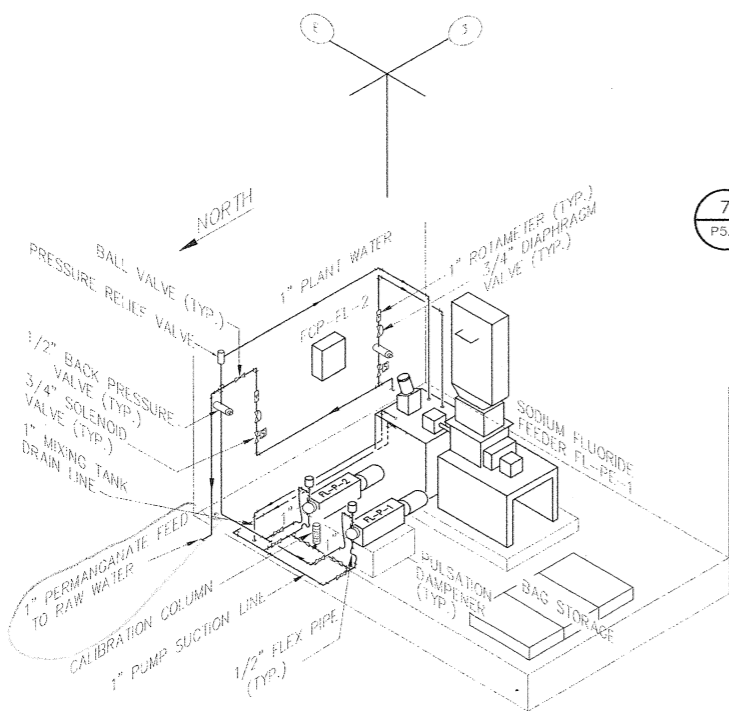
2 AMMONIA SYSTEM SCHEMATIC
P4.1
NTS



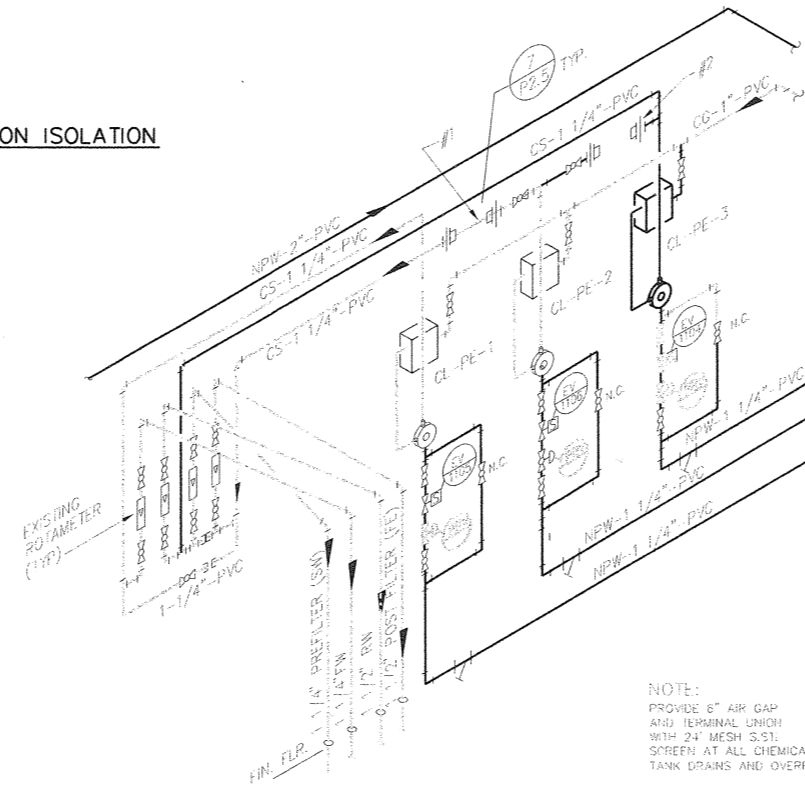
3 FILTER AID POLYMER SCHEMATIC
P2.1
NTS



7 CROSS CONNECTION ISOLATION
P5.2
NTS

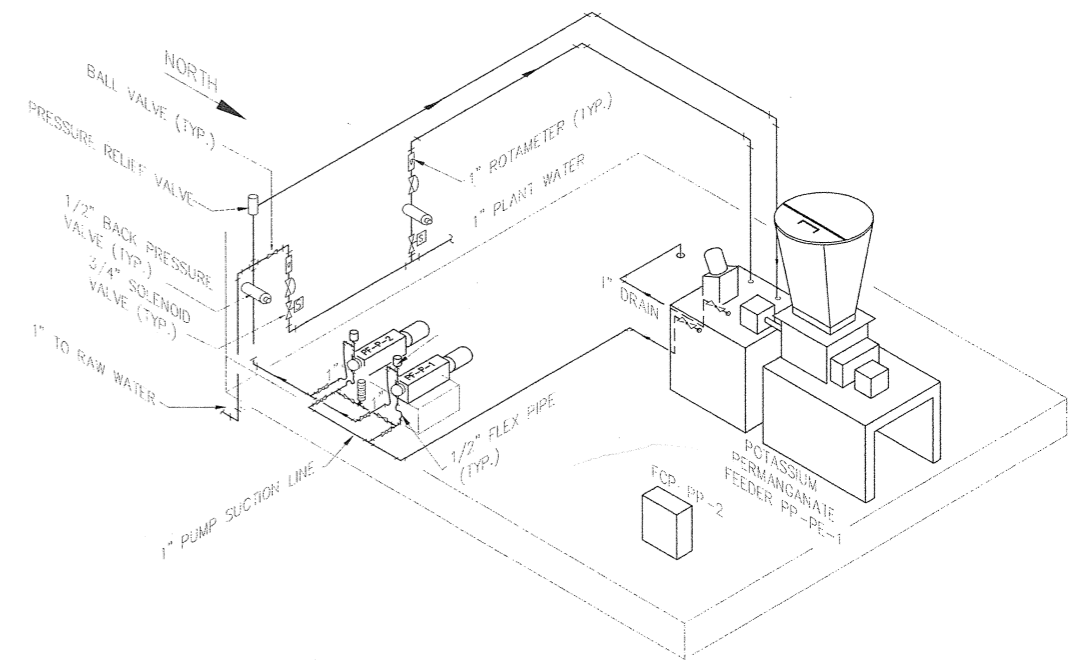


4 FLUORIDE FEED SCHEMATIC
P2.2
NTS



5 CHLORINE SYSTEM SCHEMATIC
P2.2
NTS

NOTE:
PROVIDE 6" AIR GAP
AND TERMINAL UNION
WITH 24" MESH S.S.1.
SCREEN AT ALL CHEMICAL
TANK DRAINS AND OVERFLOWS.



6 POTASSIUM PERMANGANATE SCHEMATIC
P8.1
NTS

NOTES:
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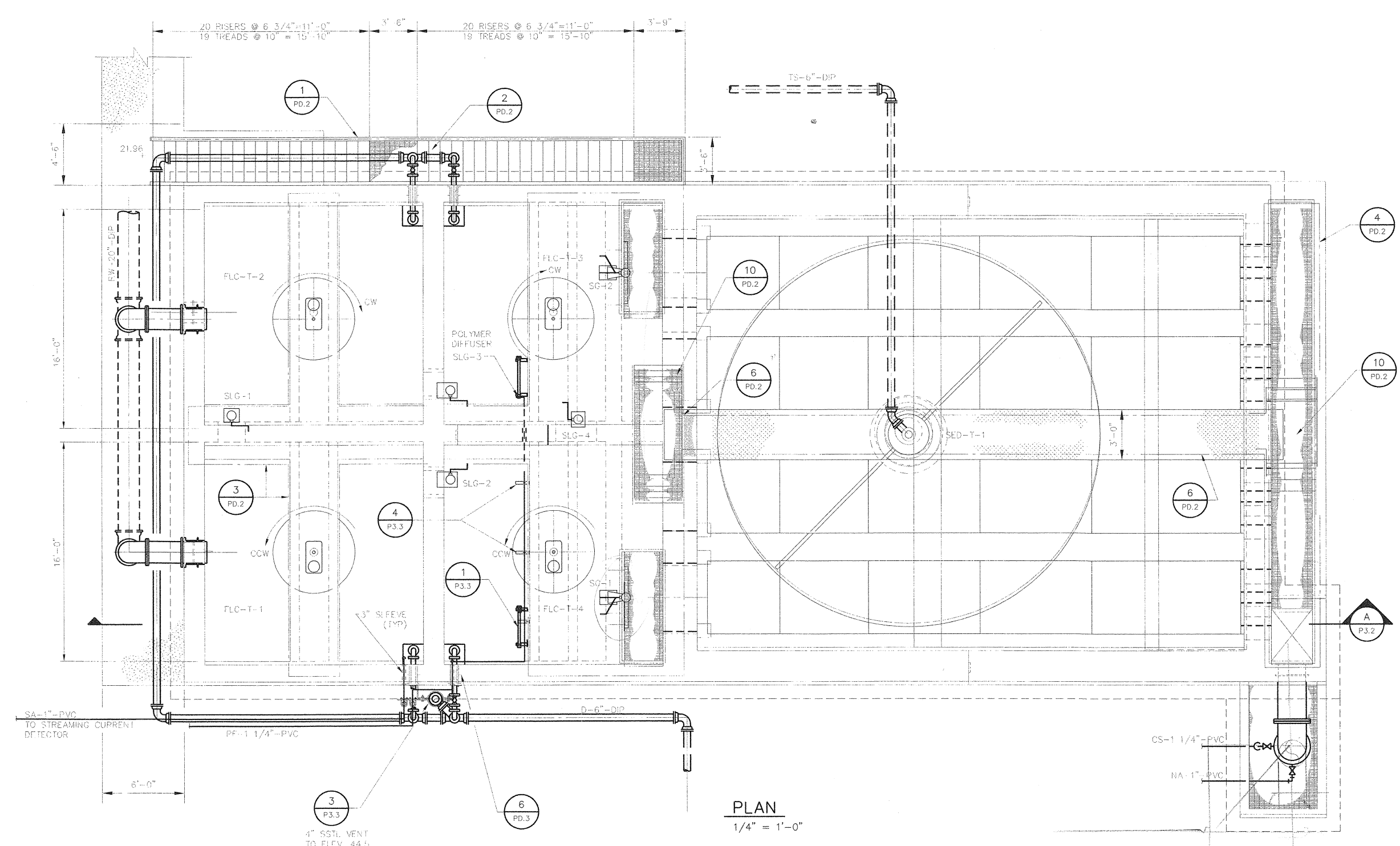
CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
POTASSIUM PERMANGANATE, POLY,
FLUORIDE, CHLORINE & CHLORINE GAS
ISOMETRIC PIPING SCHEMATICS

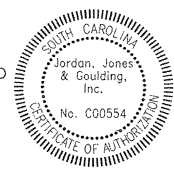
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| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 200 | P2.5 | 1 |
| DRAWN: ZWG | JOB NO. 2193.006 | SCALE: N.T.S. | SHEET | REV |

cog65pac.dwg
02.12.07



PLAN
1/4" = 1'-0"

NOTES:
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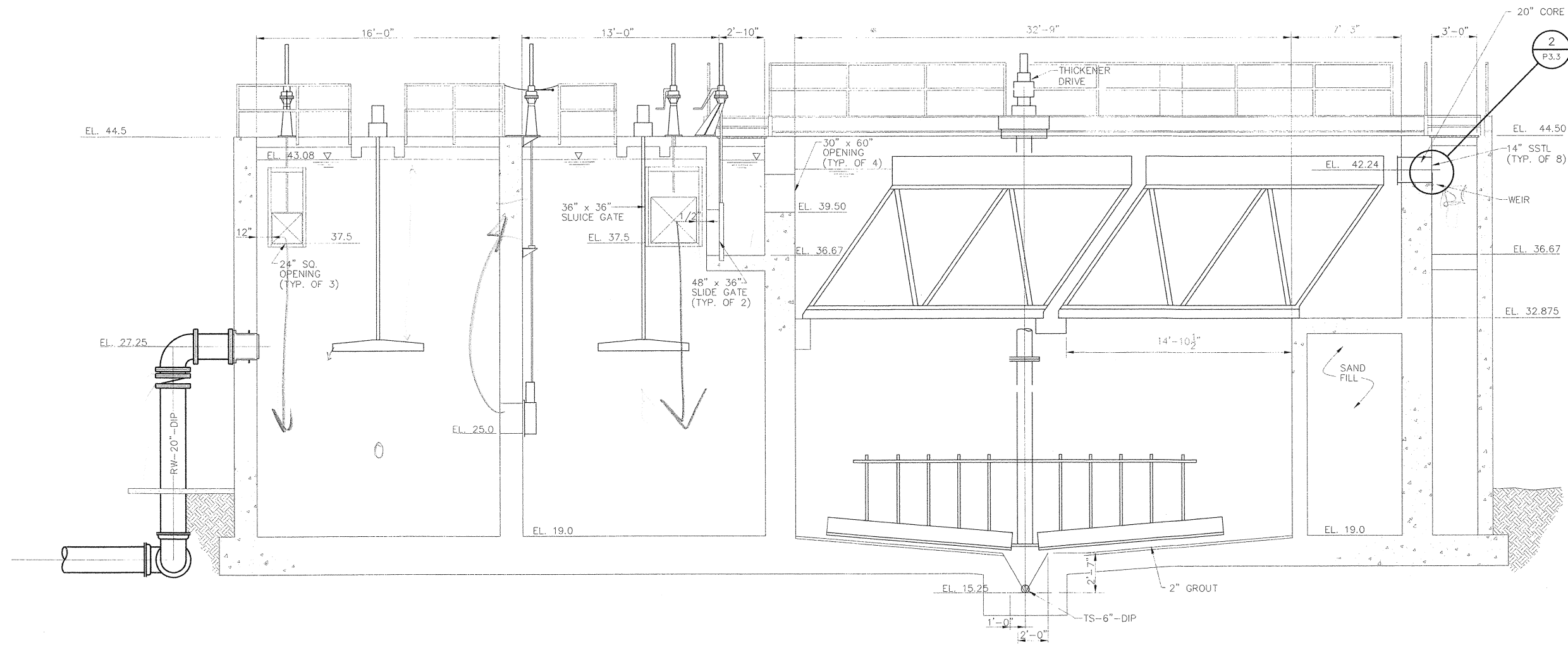
CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
FLOCCULATION/SEDIMENTATION BASIN
PLAN

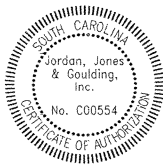
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|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2000 | P3.1 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

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08.02.01



A SECTION
 P3.1 1/4" = 1'-0"

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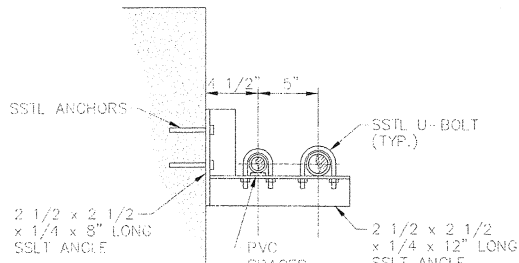
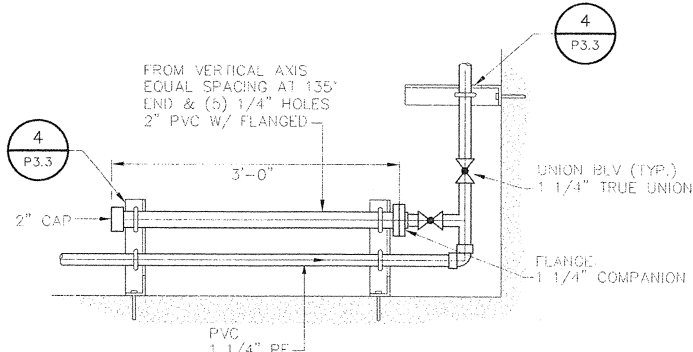
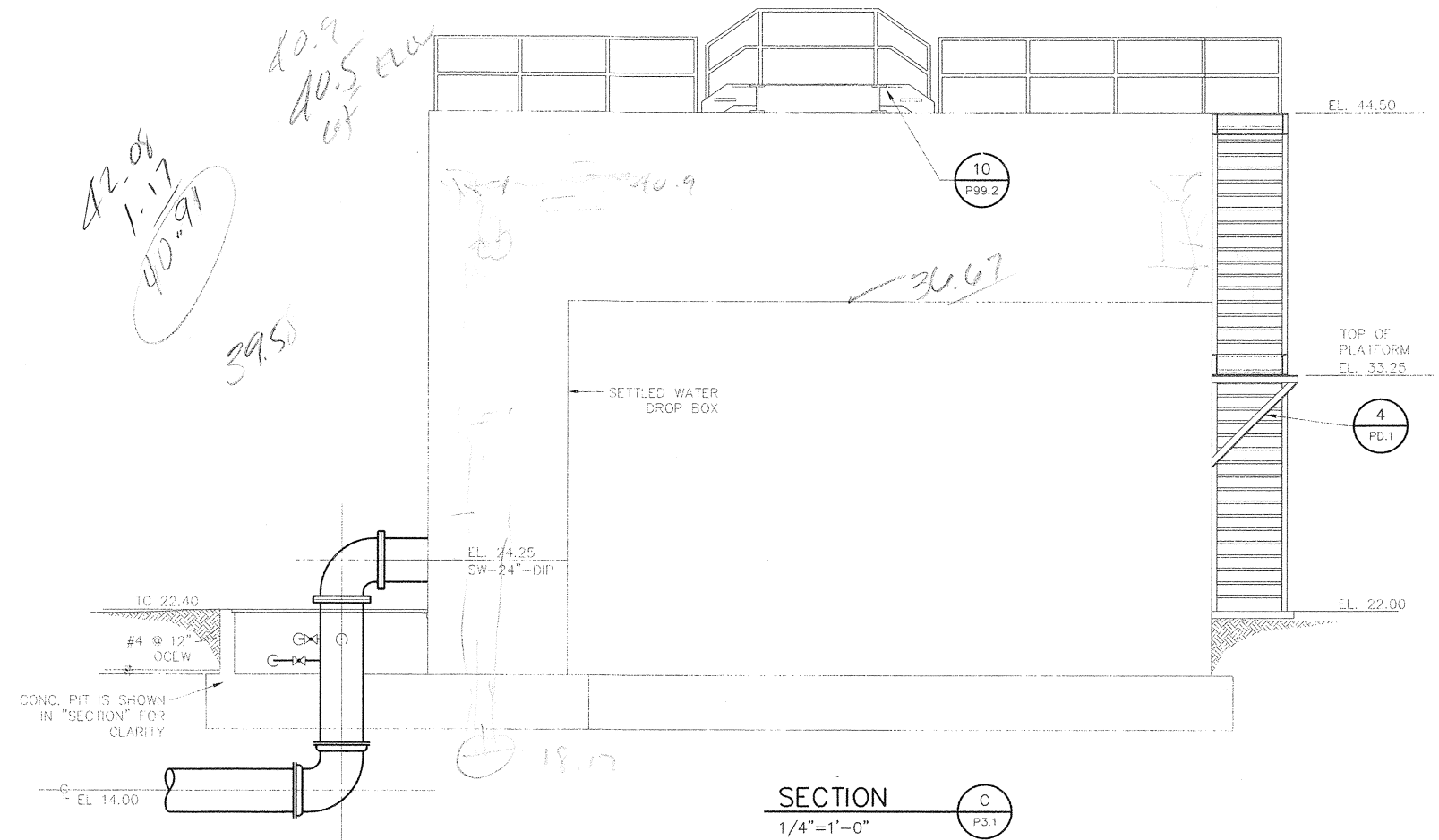
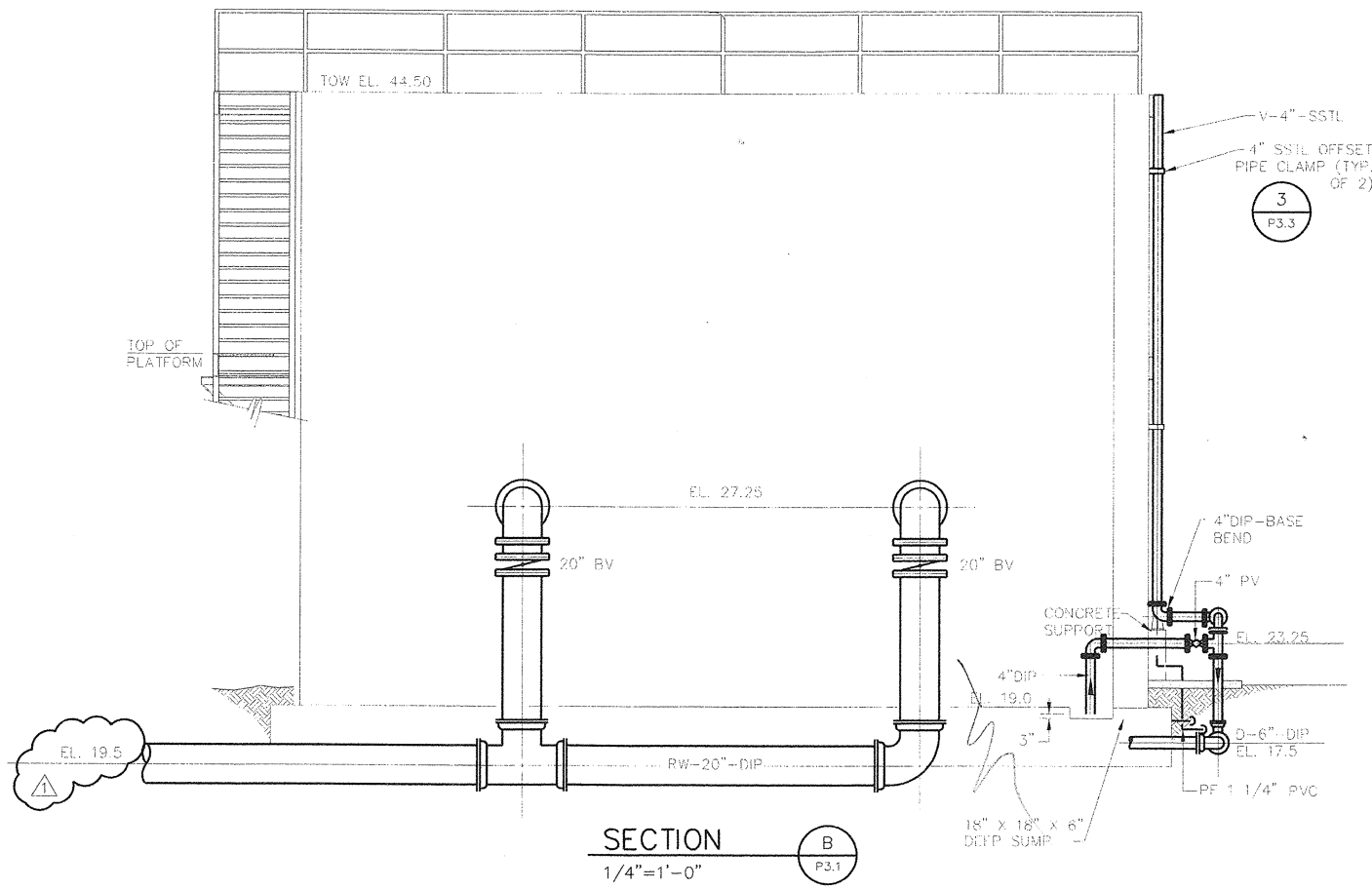
CITY OF GEORGETOWN
 SOUTH CAROLINA



CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS
 FLOCCULATION/SEDIMENTATION BASIN
 SECTION

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2004 | P3.2 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: 1/4" = 1'-0" | SHEET | REV |

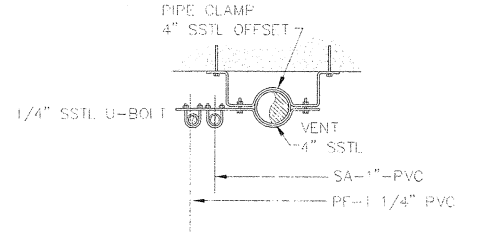
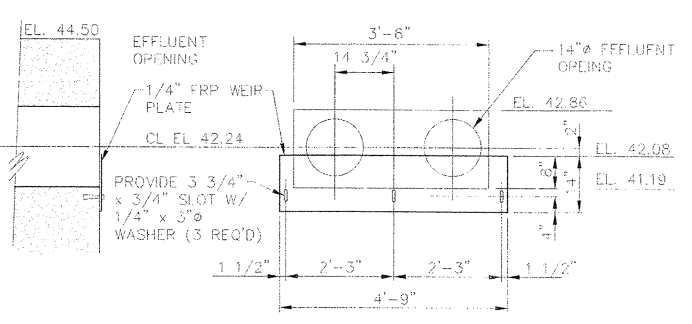
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08.01.01



NOTE:
CONFIGURATION OF DIFFUSER AND SUPPORTS ARE SIMILAR IN FLC-T-3.

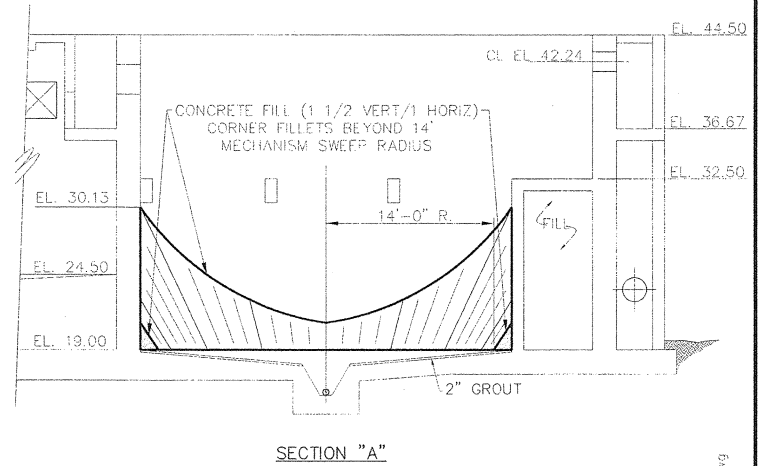
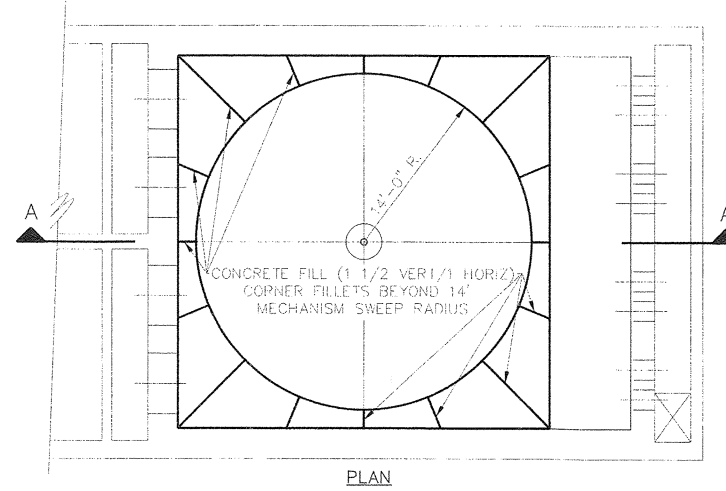
POLYMER DIFFUSER
1
1"=1'-0"

POLYMER HANGER
4
1 1/2"=1'-0"



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

PIPE CLAMP DETAIL
3
1/4"=1'-0"



SEDIMENTATION BASIN - CONC. CORNER FILLETS DETAILS
NTS

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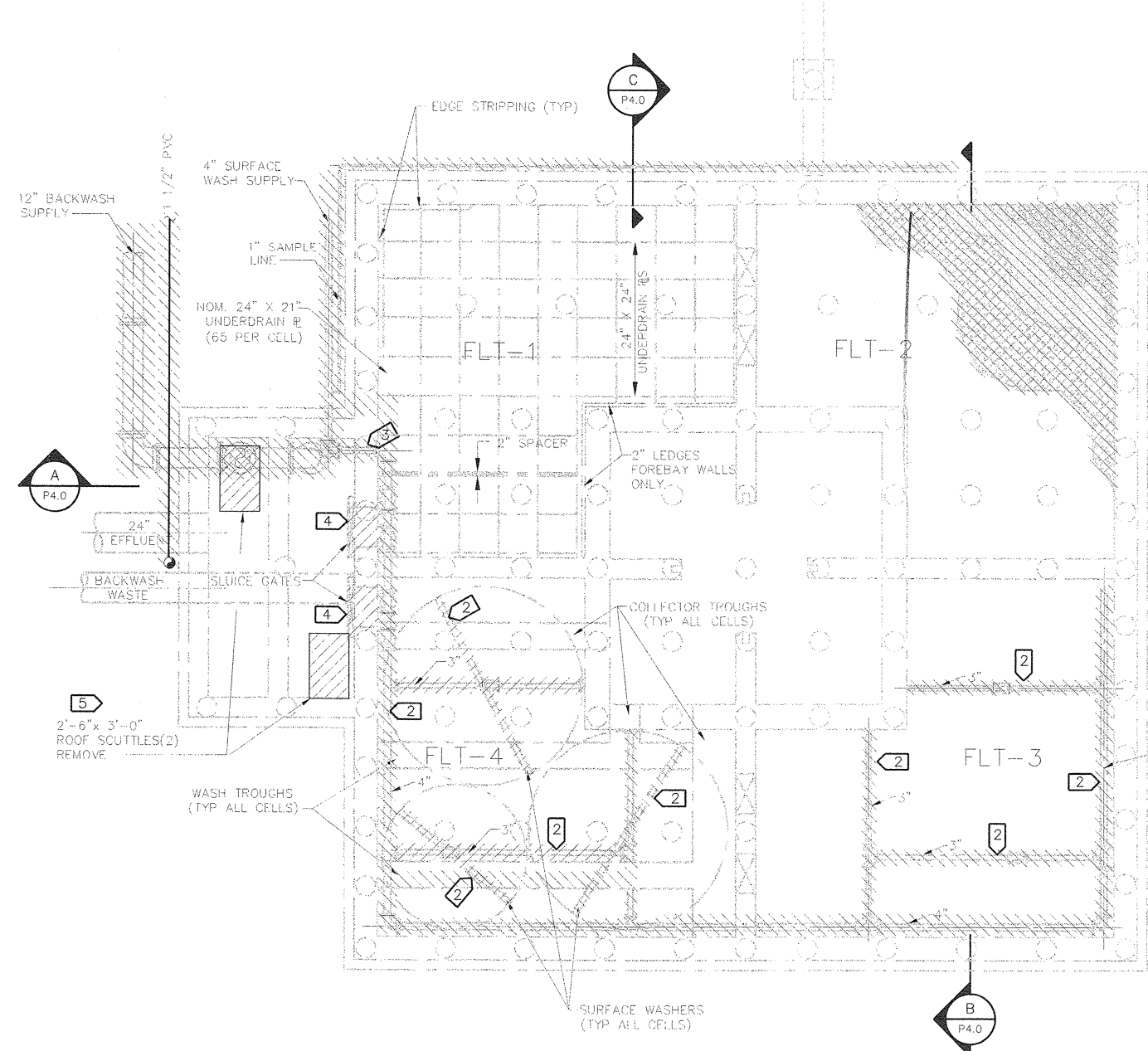
CITY OF GEORGETOWN
SOUTH CAROLINA



| | | | |
|---|------------------|---------------------|------|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| FLOCCULATION / SEDIMENTATION BASINS SECTIONS & DETAILS | | | |
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2008 | P3.3 |
| DRAWN: RB | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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08-02-01

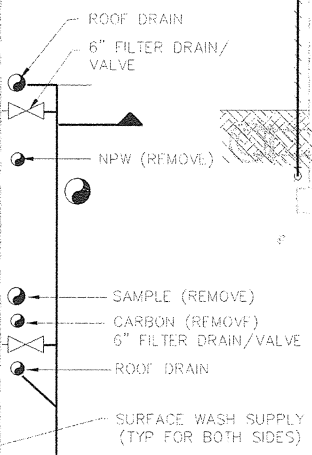
10 x 8
 +
 7.5 x 10
 +
 180 7.5 x 58 FT
 2" PVC
 SOOT LASH
 (REMOVE)



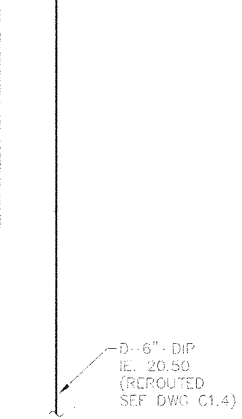
PLAN
 1/4" = 1'-0"

PROCESS DEMOLITION NOTES:

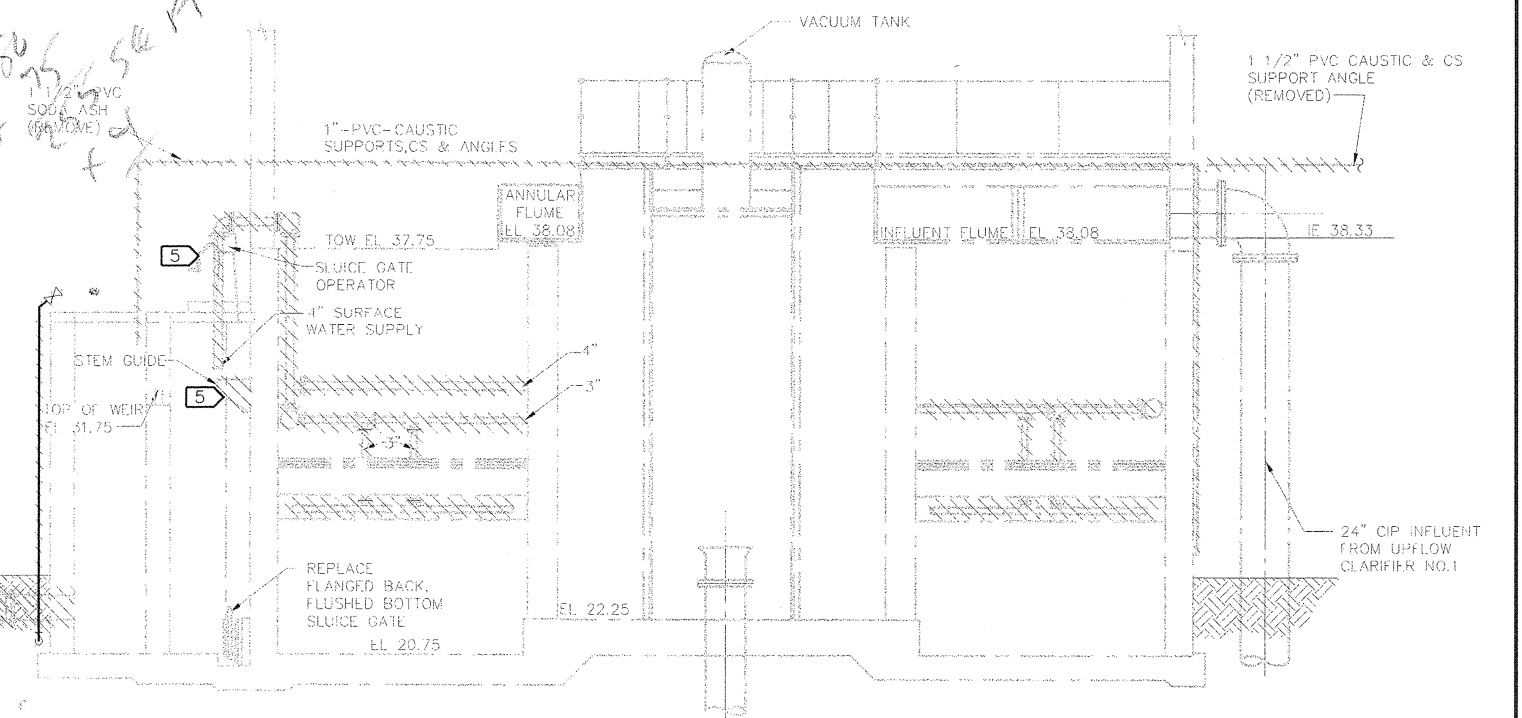
1. CROSS-HATCHED AREAS INDICATE THE LIMITS OF DEMOLITION WORK. SEE SPECIFICATION SECTION 02060 AND 02073 FOR EQUIPMENT DEMOLITION REQUIREMENTS.
- 2 DEMOLISH ALL 3" AND 4" SURFACE WASH PIPING, SWEEP ARMS AND SUPPORTS (TYP ALL FILTERS)
- 3 CAP OR PLUG ALL WALL PENETRATIONS AS SPECIFIED
- 4 REMOVE & REPLACE SLUDGE GATES (SEE P4.1)
- 5 REMOVE THE GATE OPERATING PEDESTALS, STEM GUIDES & ROOF SCUTTLES
- 6 FILL 2'-0" X 1'-6" HOLES IN 12" WALL WITH NON-SHRINKING GROUT AS DIRECTED



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

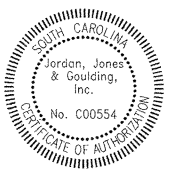


SECTION B-B
 1/4" = 1'-0"



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

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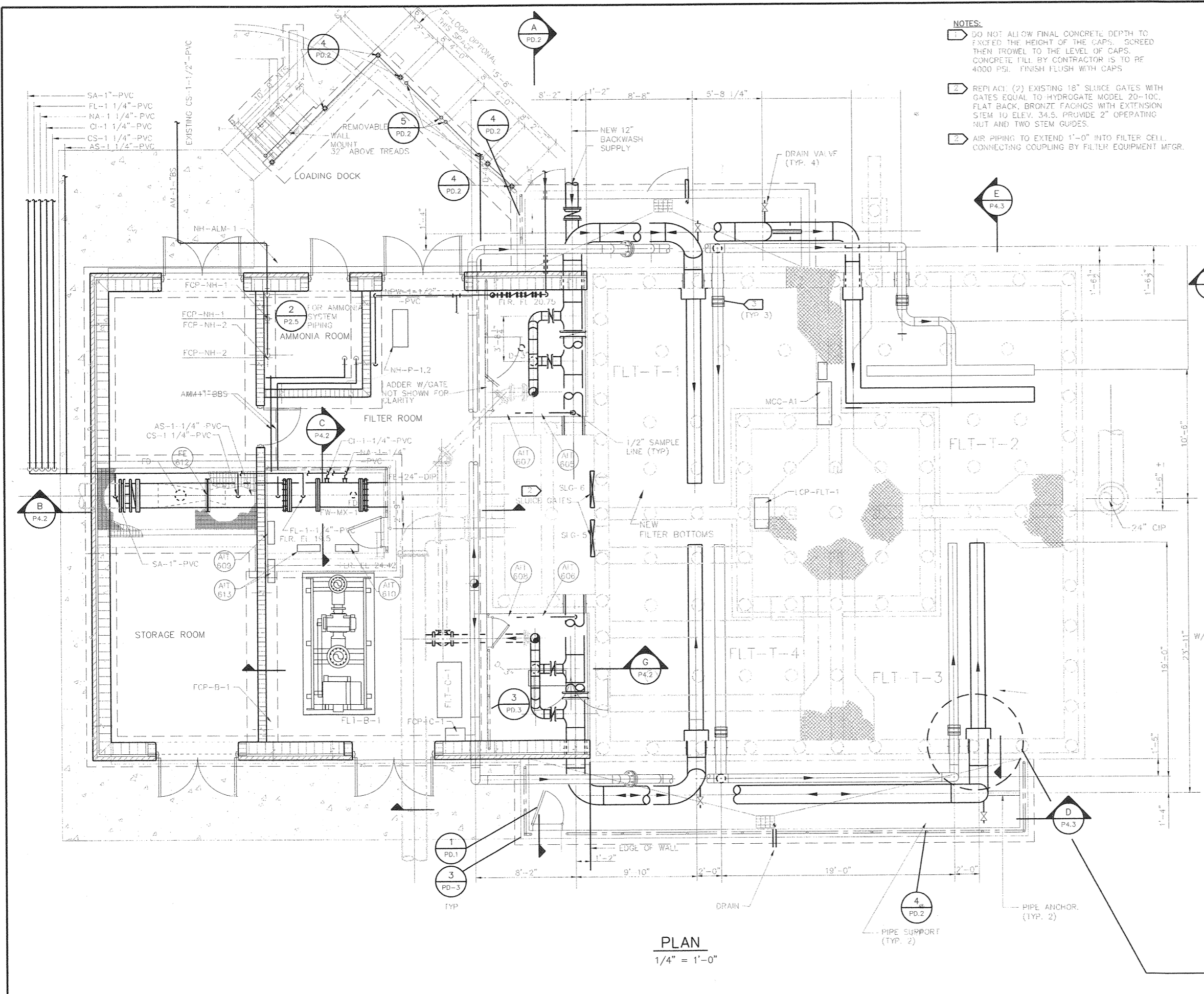


CITY OF GEORGETOWN
 SOUTH CAROLINA

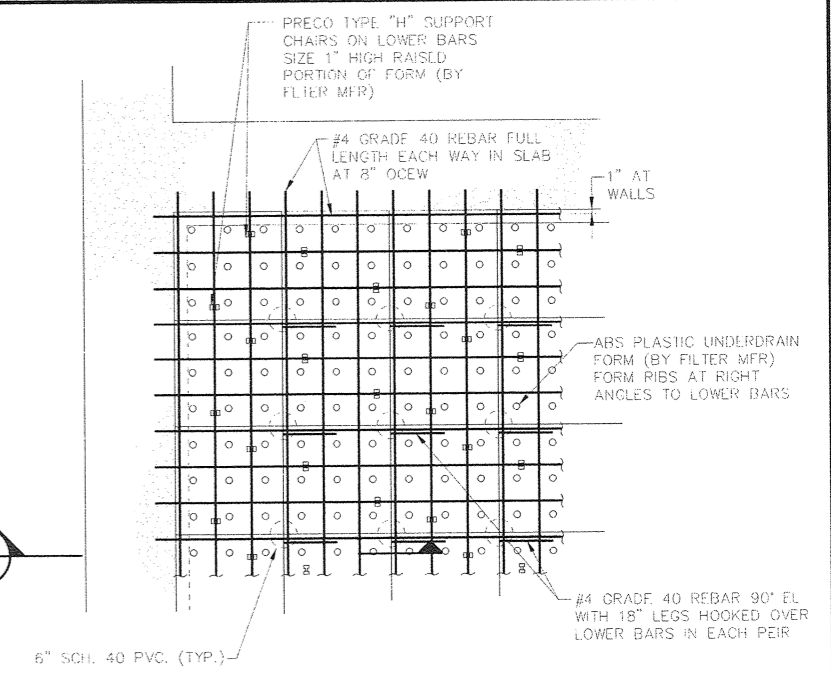


| | | | | |
|--|------------------|---------------------|-------|-----|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS FILTER DEMOLITION PLAN | | | | |
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2007 | P4.0 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

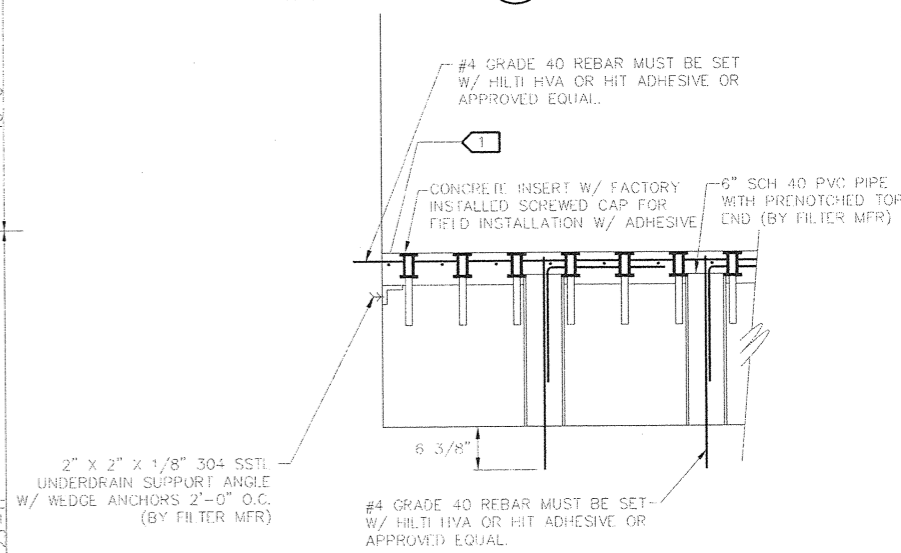
08.01.01



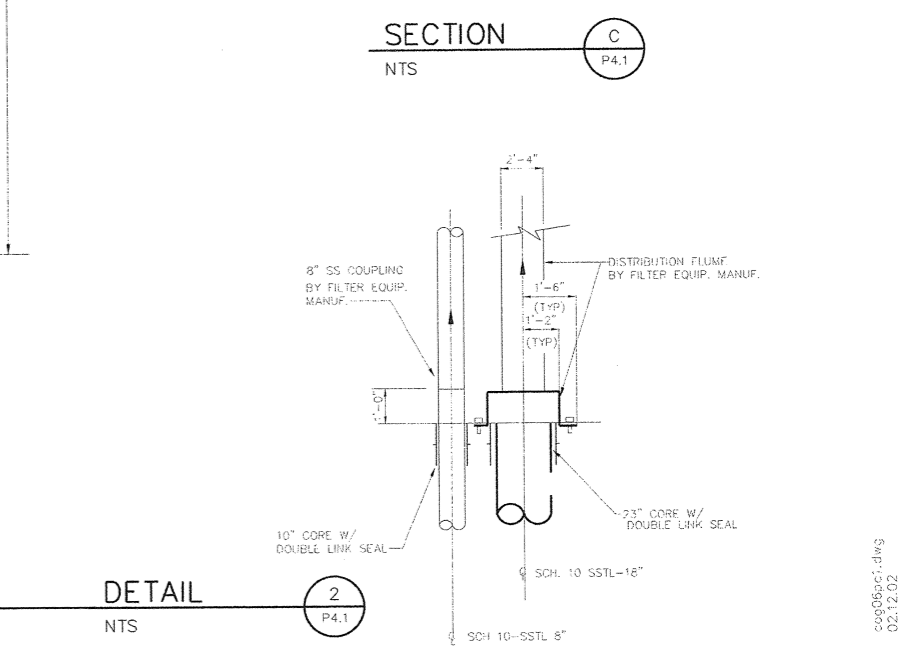
- NOTES:**
- 1. DO NOT ALLOW FINAL CONCRETE DEPTH TO EXCEED THE HEIGHT OF THE CAPS. SCREEN THEN TROWEL TO THE LEVEL OF CAPS. CONCRETE FILL BY CONTRACTOR IS TO BE 4000 PSI. FINISH FLUSH WITH CAPS.
 - 2. REPLACE (2) EXISTING 18" SLUICE GATES WITH GATES EQUAL TO HYDROGATE MODEL 20-10C, FLAT BACK, BRONZE FACINGS WITH EXTENSION STEM TO ELEV. 34.5. PROVIDE 2" OPERATING NUT AND TWO STEM GUIDES.
 - 3. AIR PIPING TO EXTEND 1'-0" INTO FILTER CELL. CONNECTING COUPLING BY FILTER EQUIPMENT MFR.



DETAIL 1
NTS



SECTION C
NTS



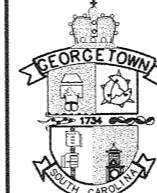
DETAIL 2
NTS

PLAN
1/4" = 1'-0"

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| 0 | 12-15-99 | INITIAL ISSUE |



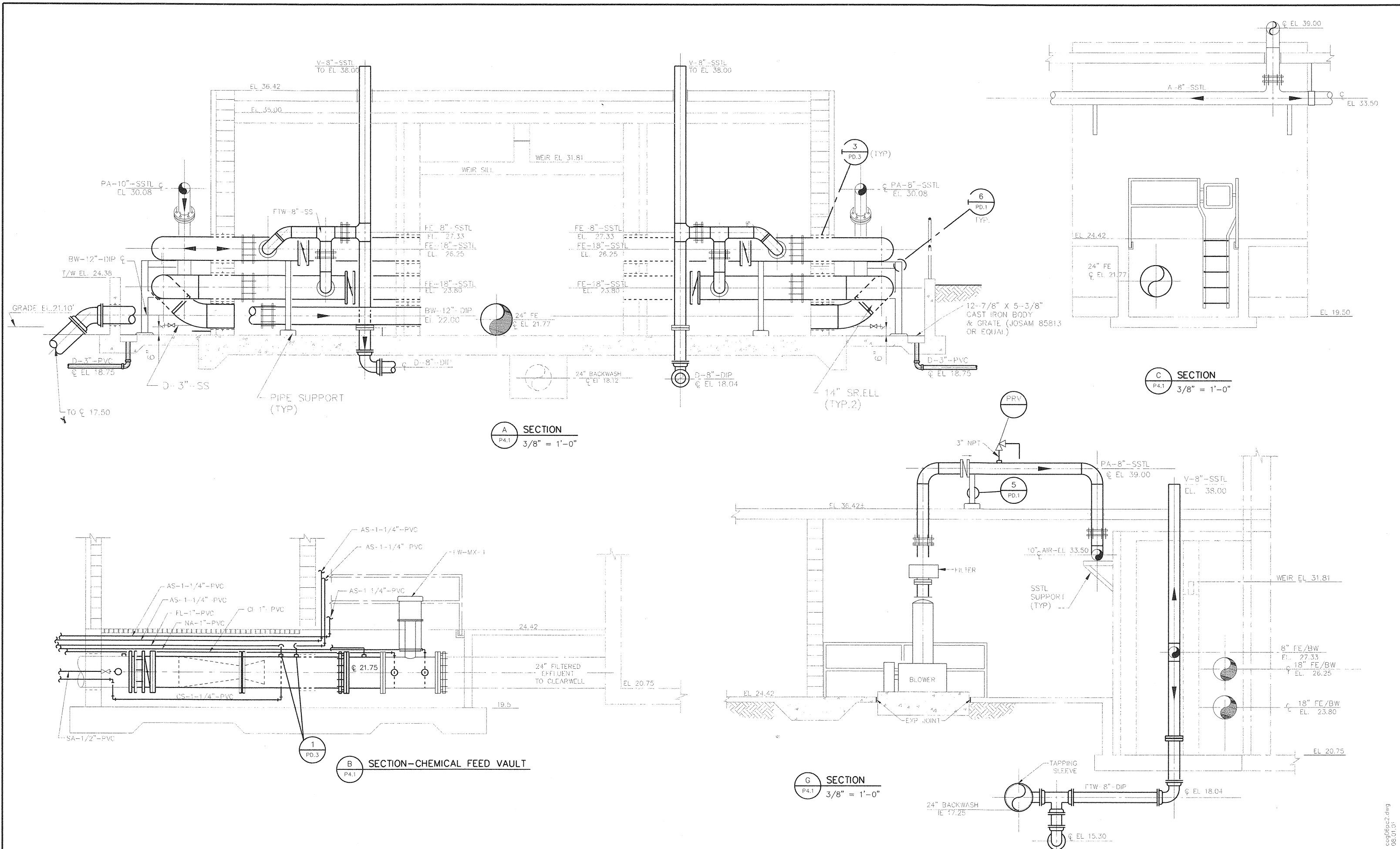
CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

FILTER BUILDING MODIFICATIONS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2000 | P4.1 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |



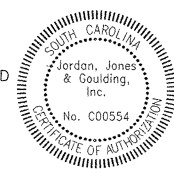
A SECTION
P4.1 3/8" = 1'-0"

B SECTION-CHEMICAL FEED VAULT
P4.1

C SECTION
P4.1 3/8" = 1'-0"

G SECTION
P4.1 3/8" = 1'-0"

NOTES:
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| 0 | 12-15-99 | INITIAL ISSUE |



CITY OF GEORGETOWN
SOUTH CAROLINA

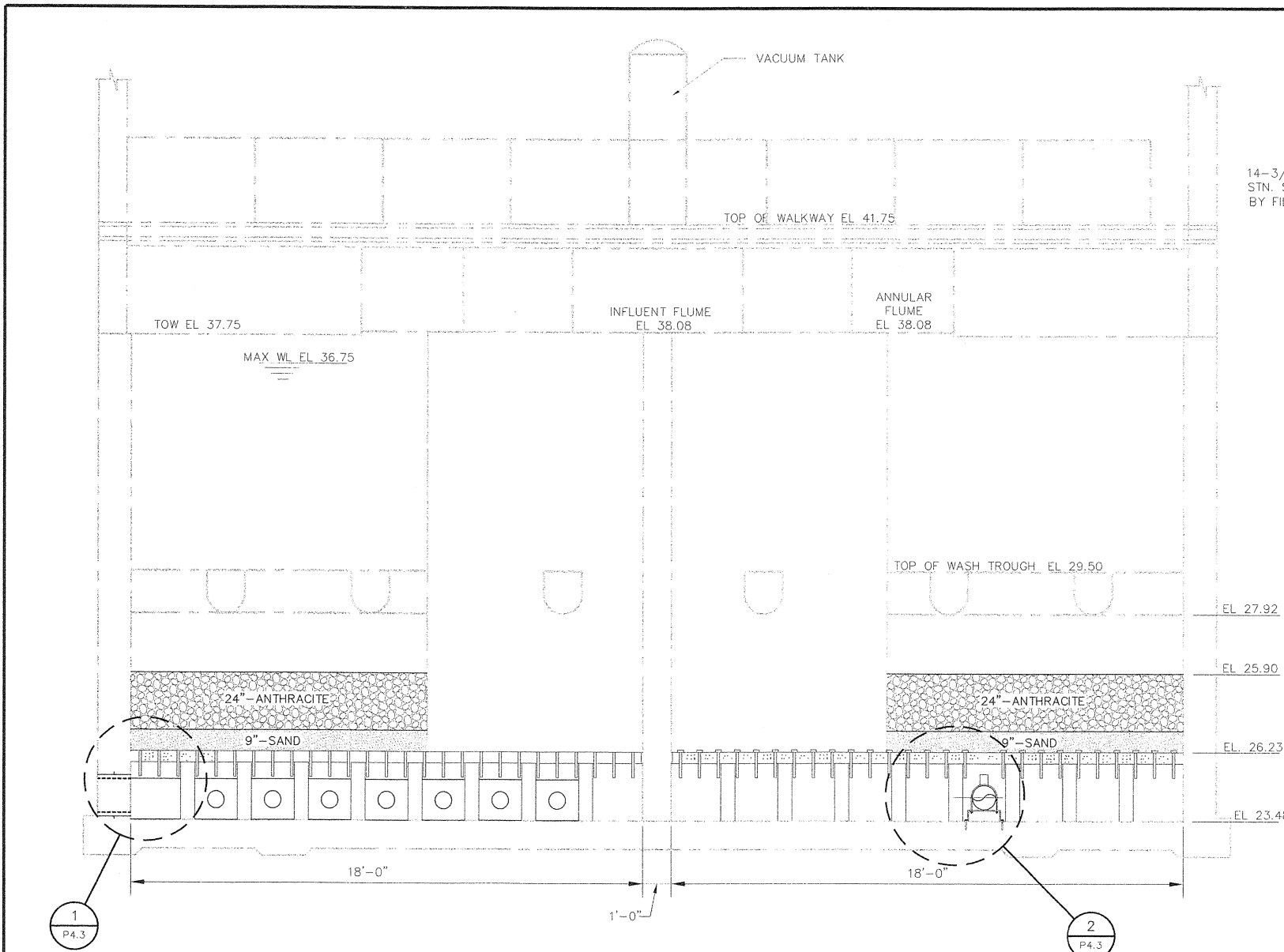


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

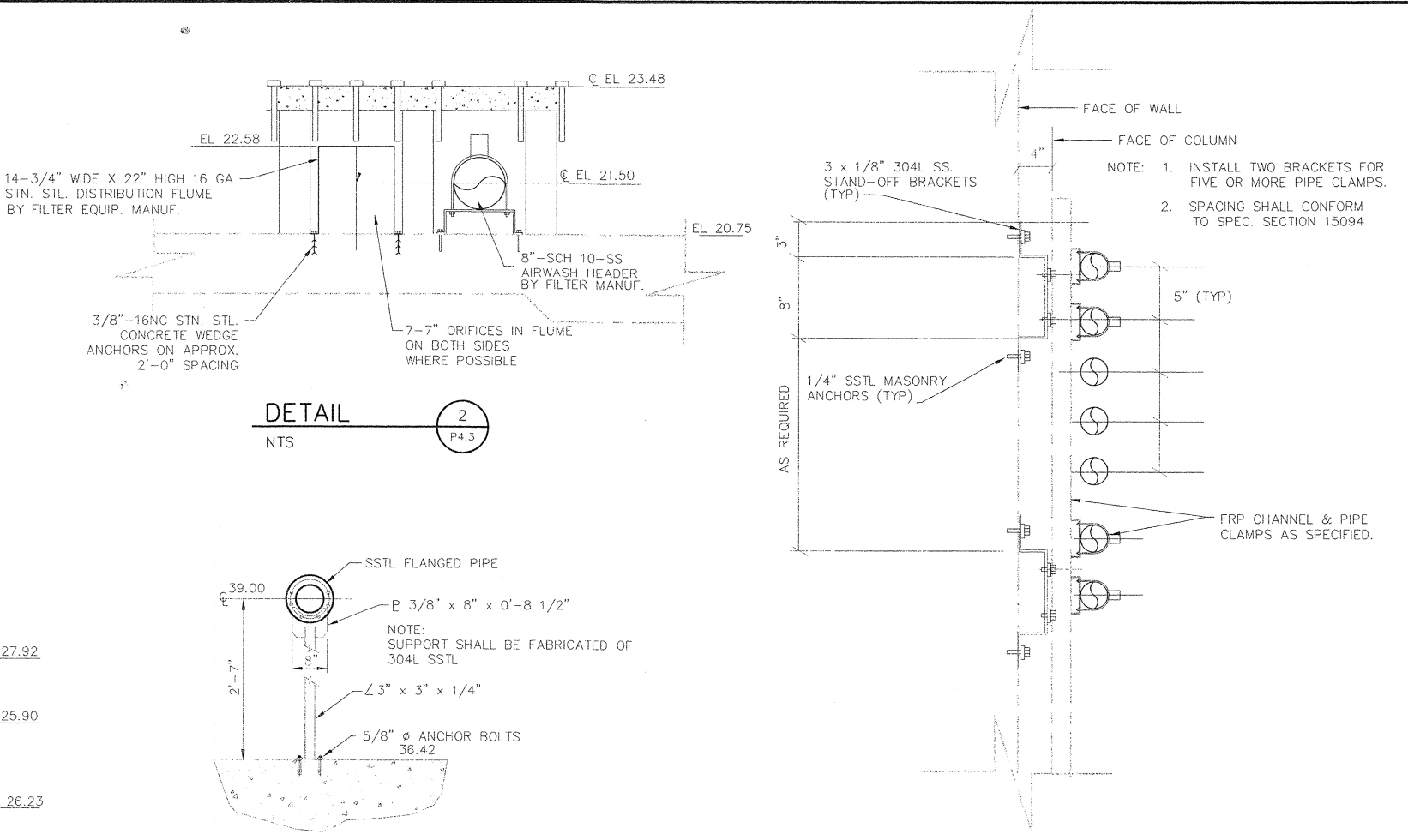
FILTER BUILDING SECTIONS
CHEMICAL FEED VAULT

| | | | | |
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| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2004 | P4.2 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: 3/8" = 1'-0" | SHEET | REV |

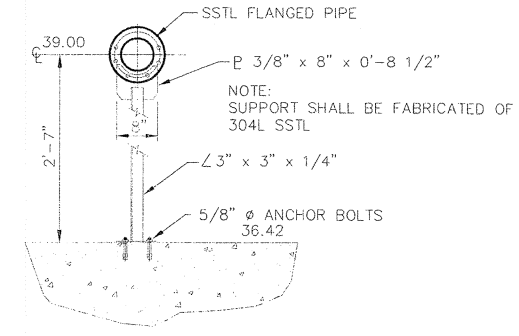
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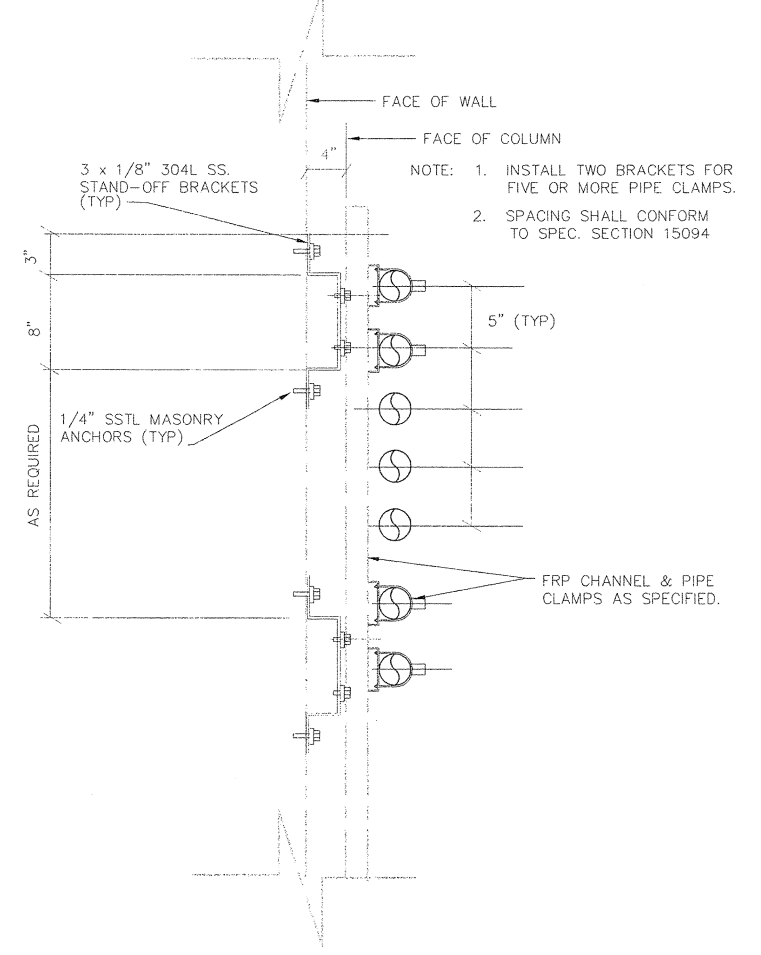
E SECTION
3/8" = 1'-0"



DETAIL 2
NTS P4.3

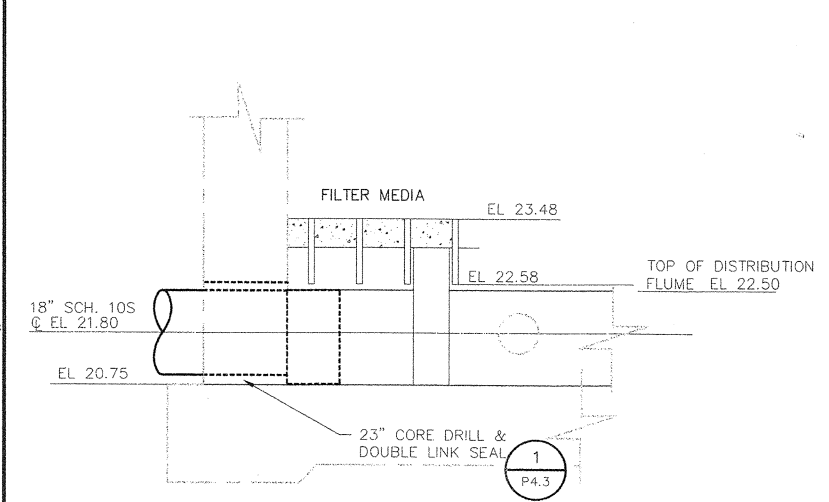


PIPE SUPPORT DETAIL 5
NTS P5.7

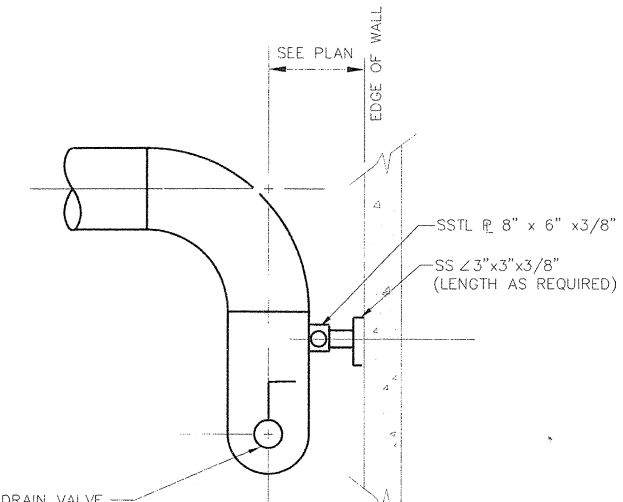


STAND-OFF STACKED PIPE SUPPORT

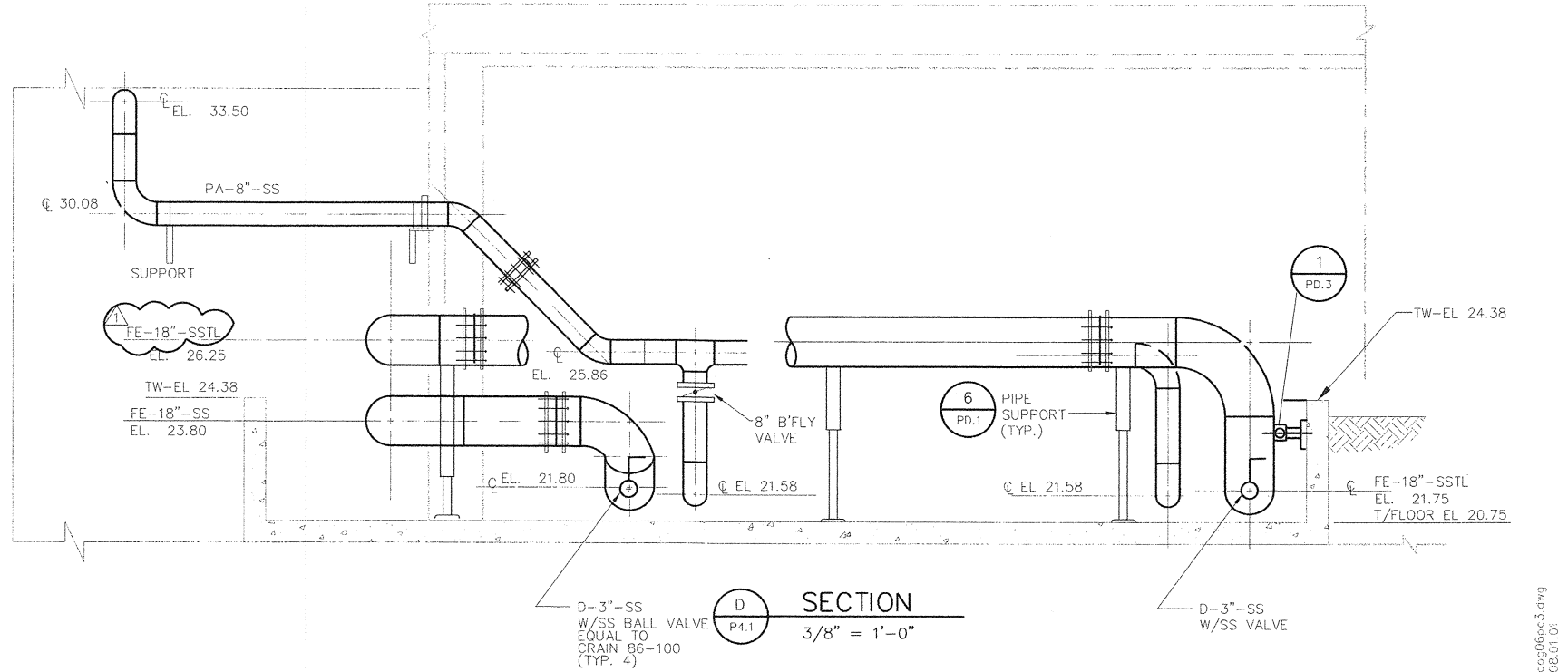
DETAIL 3
NTS P4.3



PENETRATION DETAIL 1
NTS P4.3



SUPPORT DETAIL 1
NTS P4.3



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

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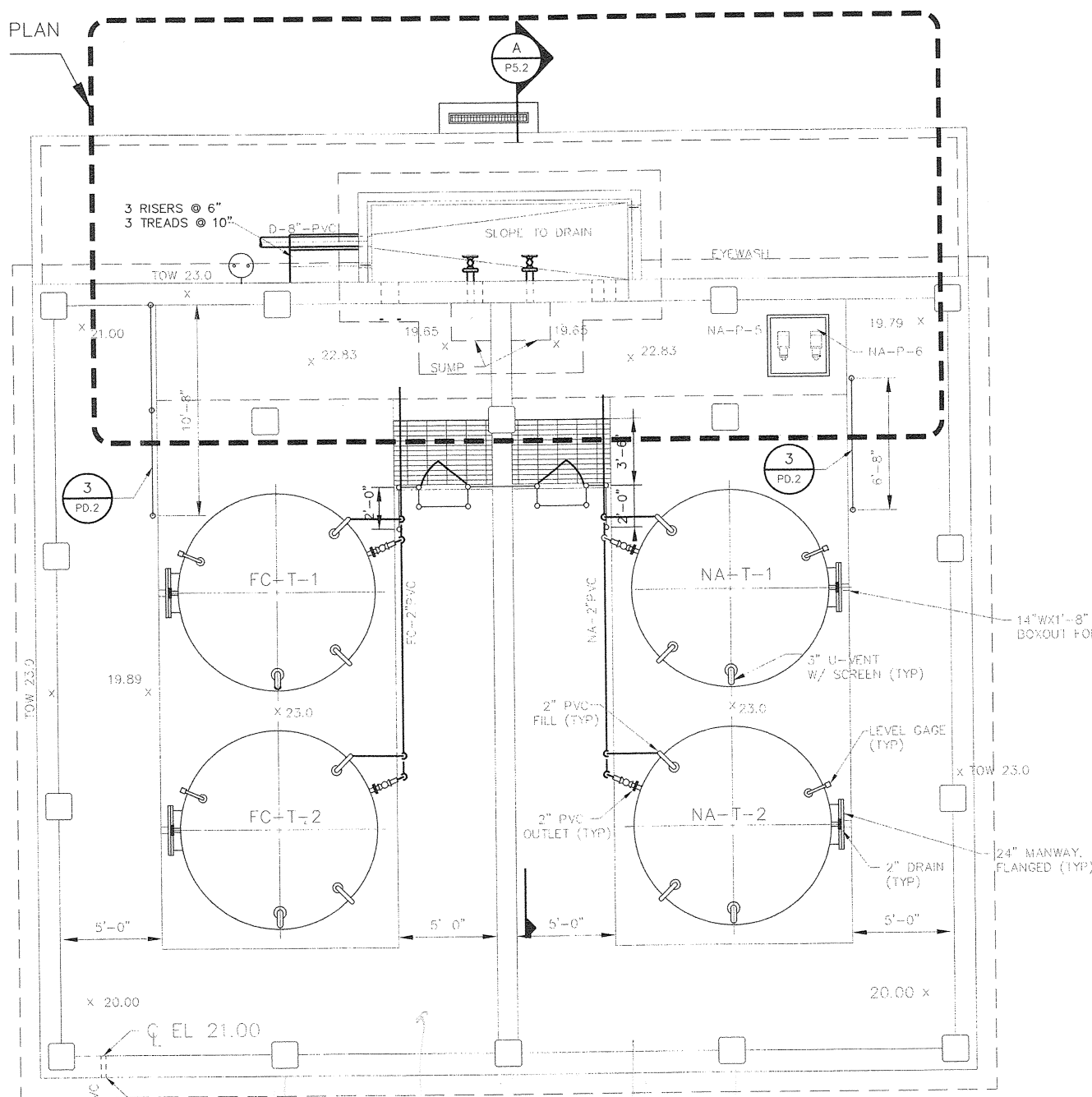


CITY OF GEORGETOWN
SOUTH CAROLINA

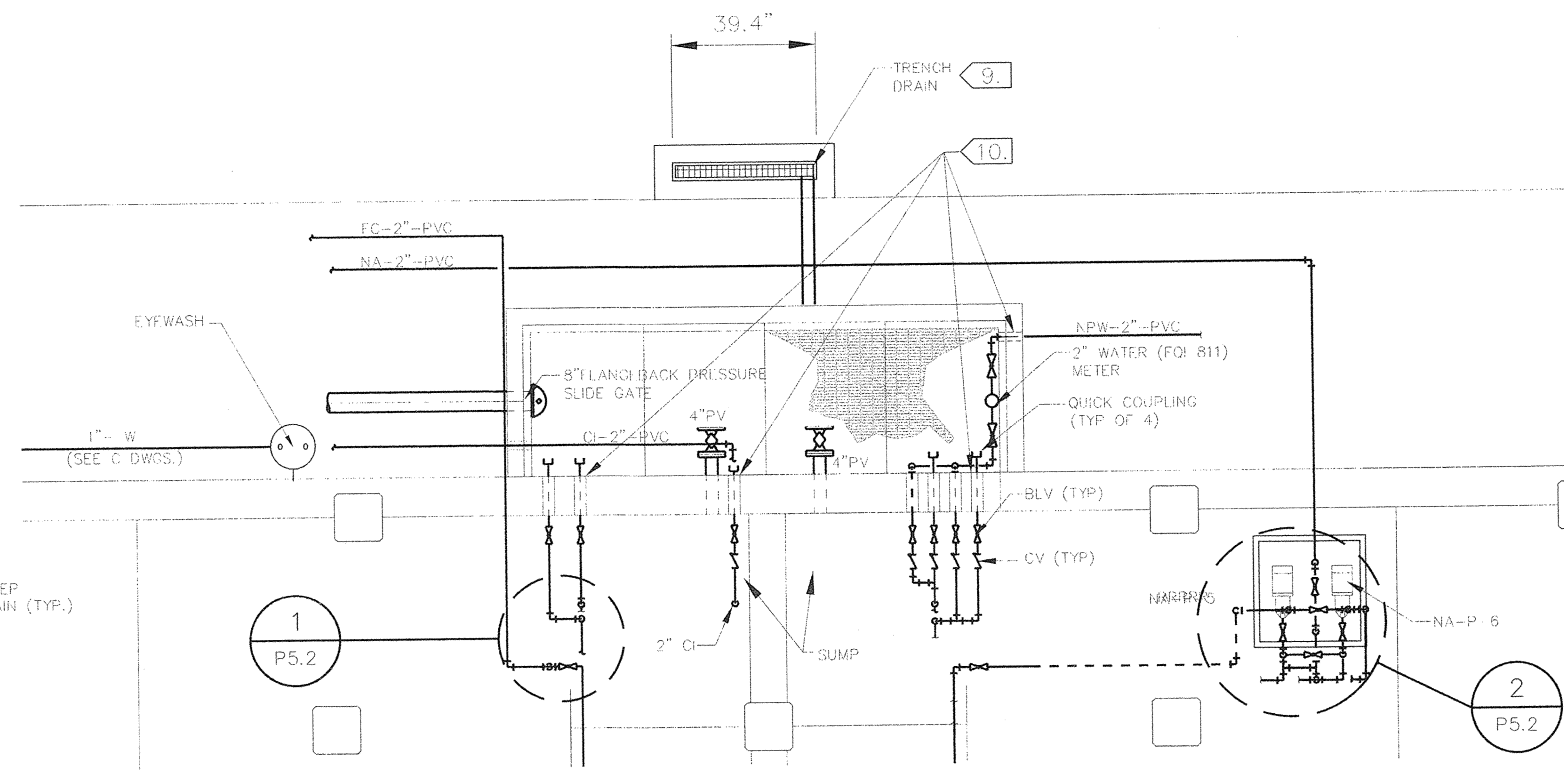


| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS FILTER BUILDING SECTIONS | | | |
|--|------------------|---------------------|------|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2004 | P4.3 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: 3/8" = 1'-0" | 1 |
| | | | REV |

SEE PARTIAL PLAN
(THIS SHEET)



PLAN
1/4" = 1'-0"



PARTIAL PLAN
3/8" = 1'-0"

NOTES

1. ALL PIPING SUPPORTS FOR PVC PIPING SHALL BE GLASS REINFORCED POLYESTER CHANNEL FRAMING SYSTEM WITH POLYURETHANE STRAPS AND FITTINGS. POST BASES SHALL BE USED FOR ALL POST SUPPORTS. SUPPORT SYSTEM SHALL BE MANUFACTURED BY AICKINSTRUT.
2. CHECK VALVES SHALL BE BALL TYPE, PVC, SINGLE UNION, SPRING LOADED, EPDM SEAT/SEAL.
3. BALL VALVES SHALL BE PVC, TRUE UNION, EPDM SEAT/SEAL.
4. ALL PVC PIPING AND FITTINGS SHALL BE SCHEDULE 80.
5. ALL EXPOSED PIPING 2-INCH AND SMALLER SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED.
6. PROVIDE 2" NUT OPERATOR ON PLUG VALVE & SLIDE GATE. NO EXTENSIONS REQUIRED.
7. SMALL QUICK COUPLING ADAPTERS FOR FERRIC CHLORIDE SUPPLY SHALL BE POLYPROPYLENE GLASS FIBER REINFORCED, EQUAL TO ANDREWS 200-F. ADAPTERS FOR CAUSTIC AND CORROSION INHIBITOR SUPPLY SHALL BE 304 STAINLESS STEEL.
8. GRATING AND SEAT ANGLE SHALL BE 1 1/2" FRP. FURNISH FOUR PANELS AS SHOWN ON THE PLAN.
9. TRENCH DRAIN SHALL BE POLYESTER CONCRETE EQUAL TO ACO,S-100, 4-INCH WIDTH. GRATE SHALL BE VINYLESTER FIBERGLASS.
10. CORES AND LINK -SEAL ALL PIPING PENETRATIONS.

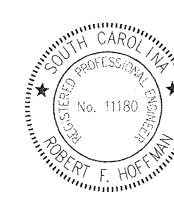
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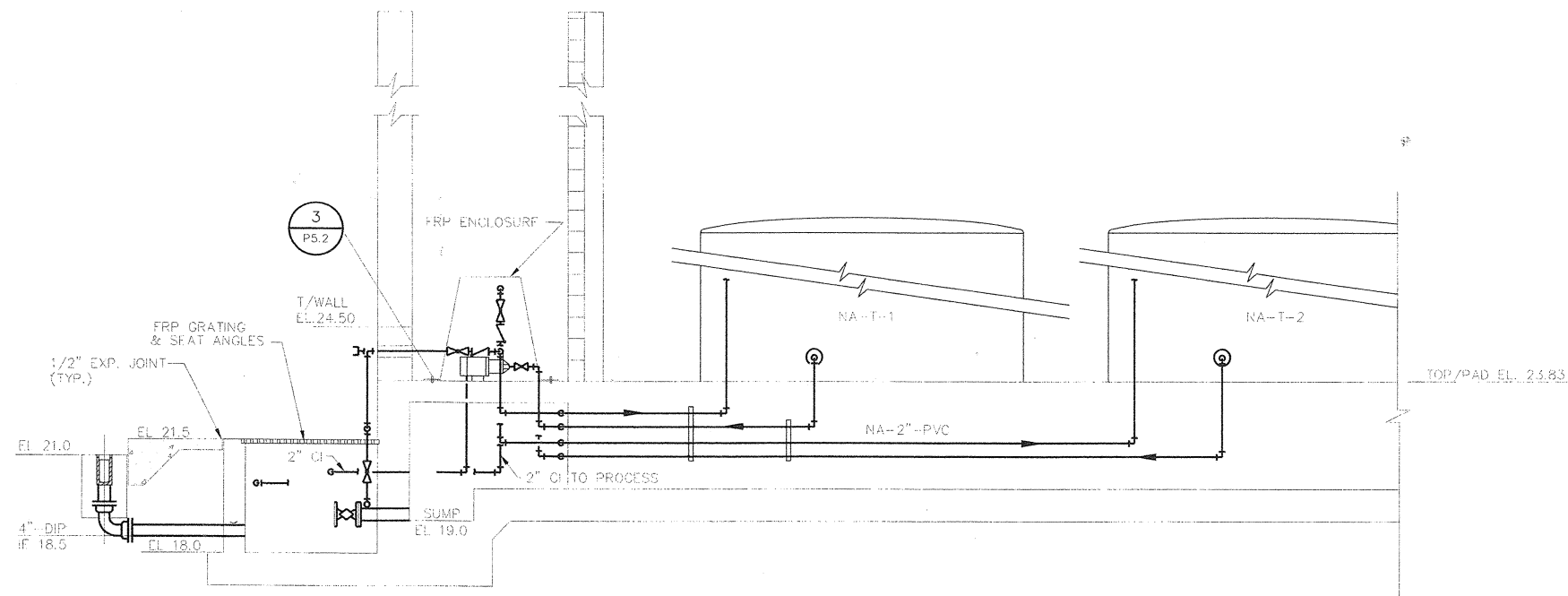
CITY OF GEORGETOWN
SOUTH CAROLINA



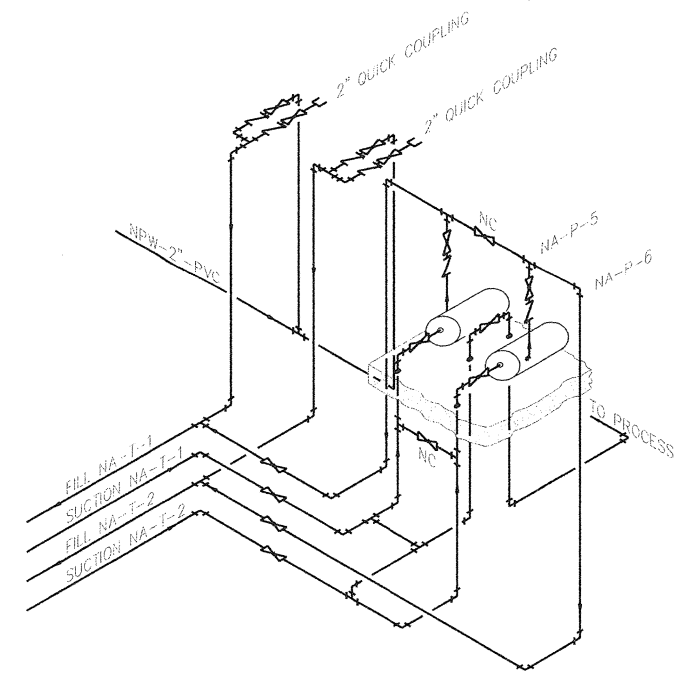
CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
FERRIC CHLORIDE AND CAUSTIC
BULK TANKS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2000 | P5.1 | 1 |
| DRAWN: RB/ST | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

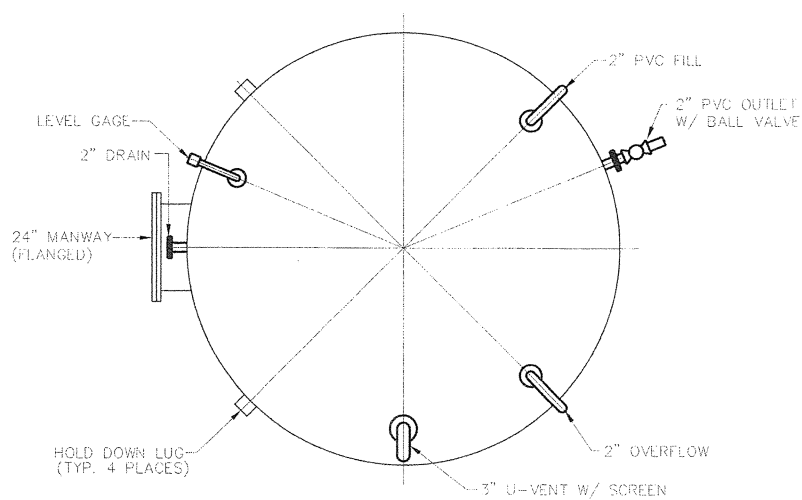
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02.12.02



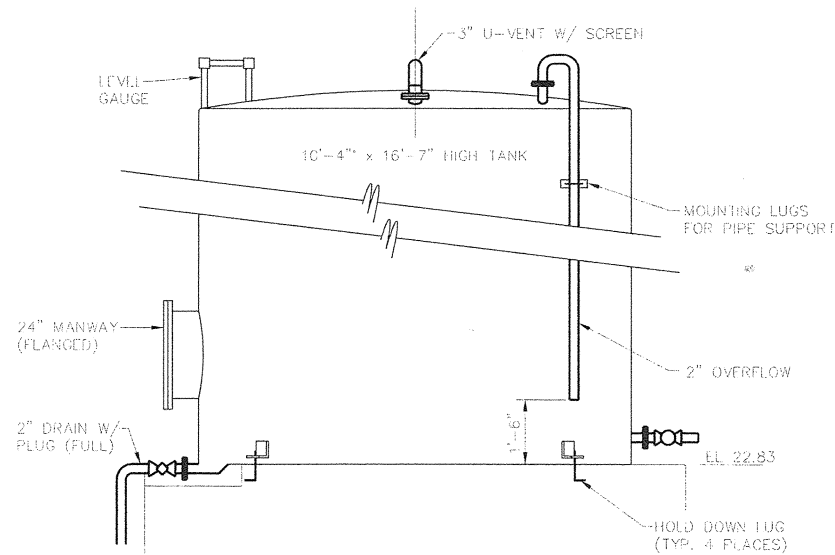
SECTION A
3/8" = 1'-0"



2 SODIUM HYDROXIDE PIPING SCHEMATIC
NTS

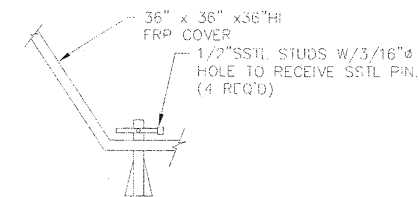


PLAN
NTS

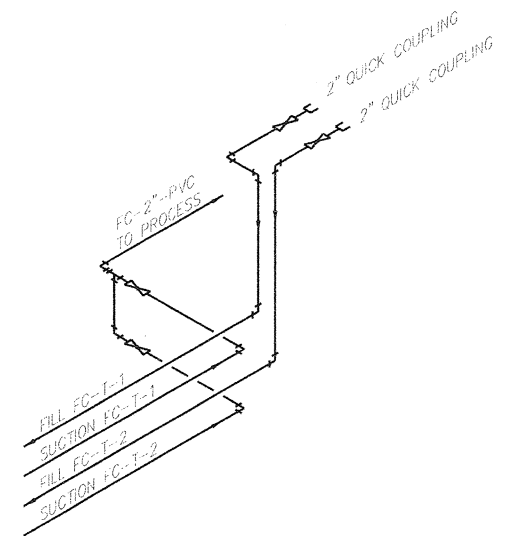


ELEVATION
NTS

TANK DETAIL

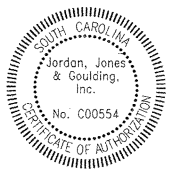


3 ANCHOR DETAIL
NTS



1 FERRIC CHLORIDE PIPING SCHEMATIC
NTS

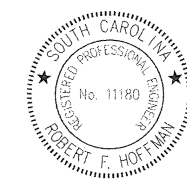
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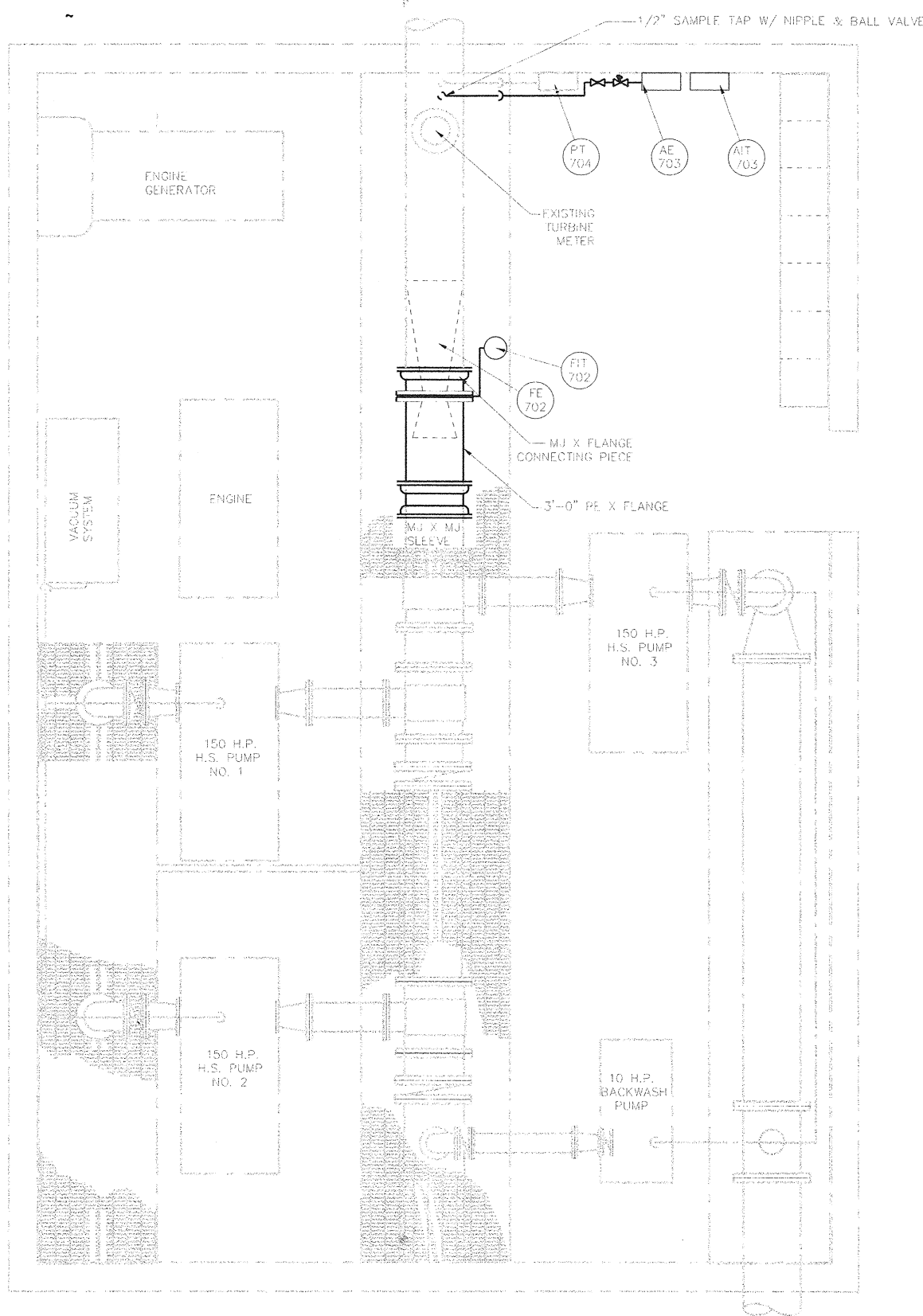


CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
FERRIC CHLORIDE AND CAUSTIC BULK TANKS
SECTION, SCHEMATICS AND DETAIL

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2000 | P5.2 | 1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |



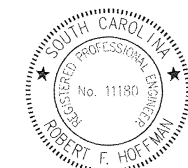
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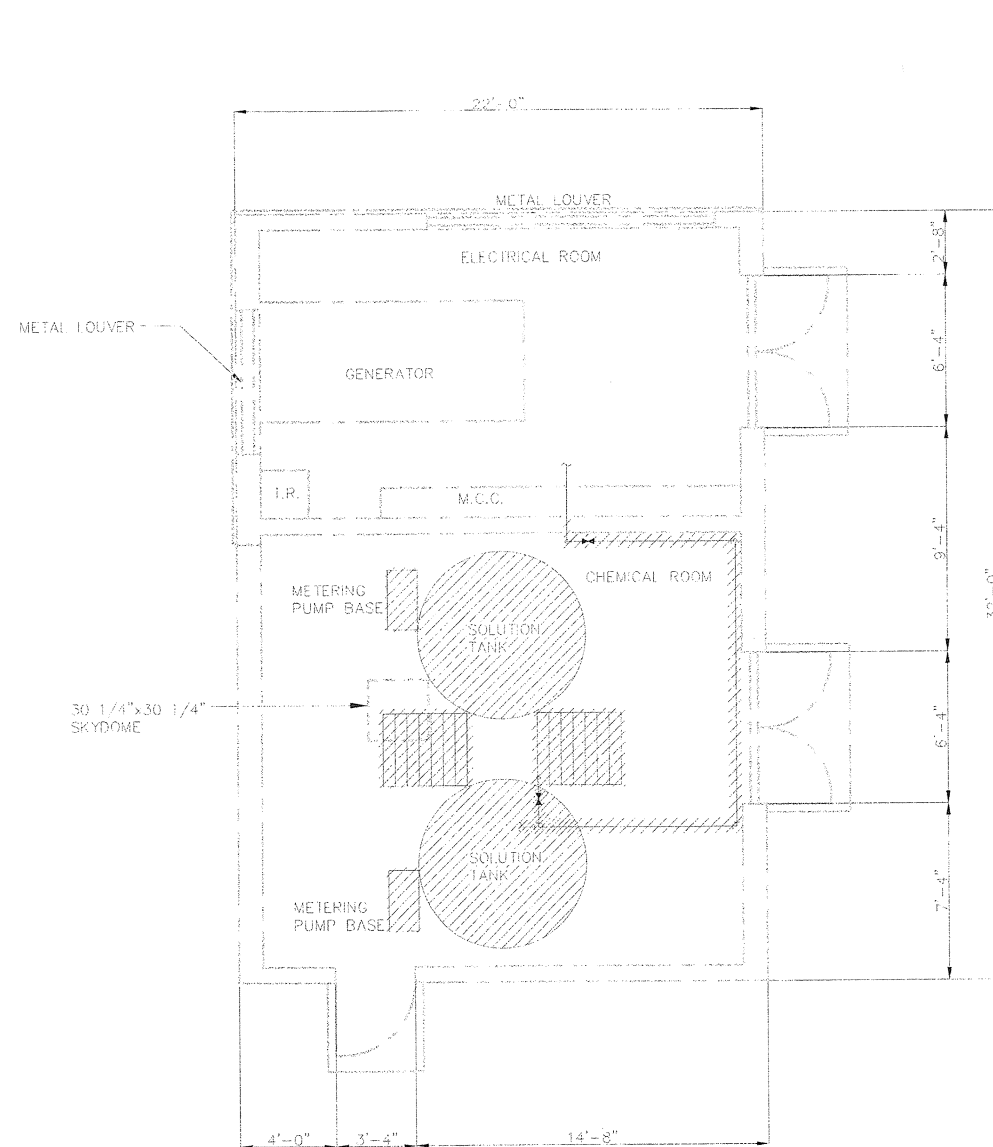
CITY OF GEORGETOWN
 SOUTH CAROLINA



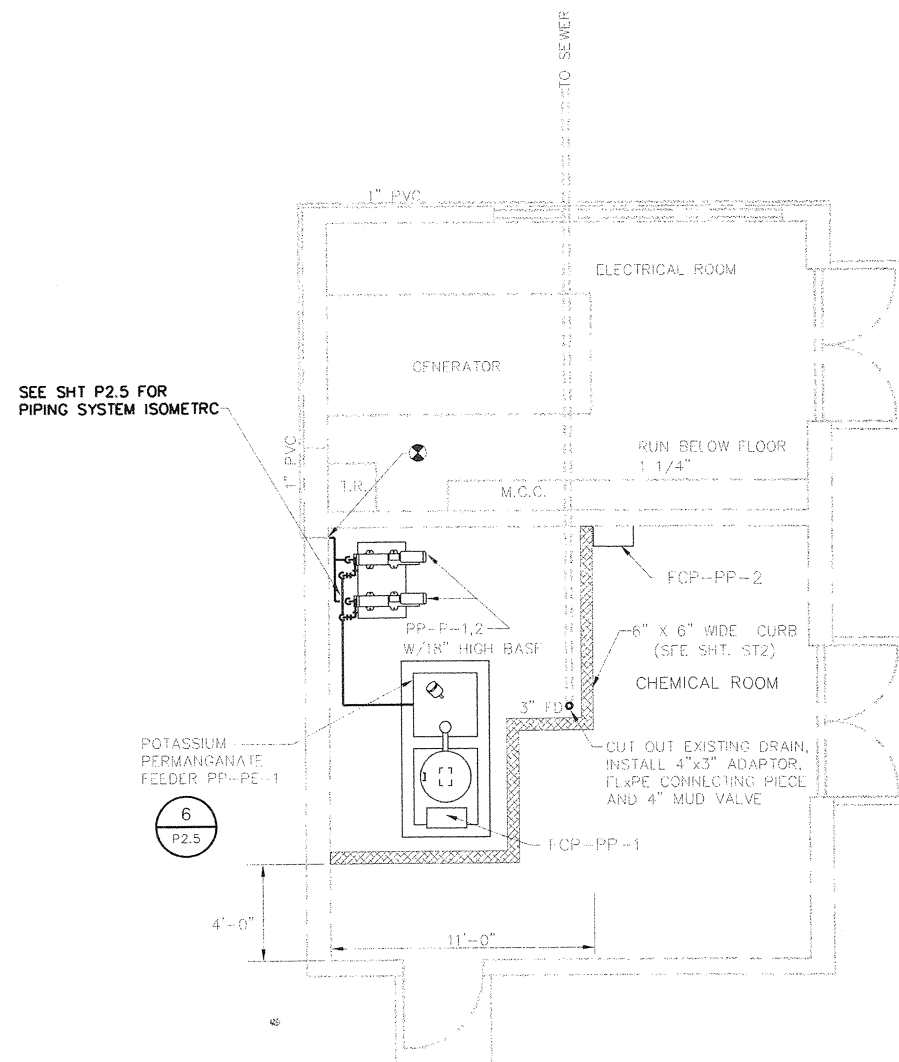
CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS
 HIGH SERVICE PUMPING BUILDING
 PLAN

| | | | | |
|---------------|------------------|---------------------|-------|-----|
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| DRAWN: ST | JOB NO: 2193.006 | SCALE: 3/8" = 1'-0" | SHEET | REV |

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02/12/02



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



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

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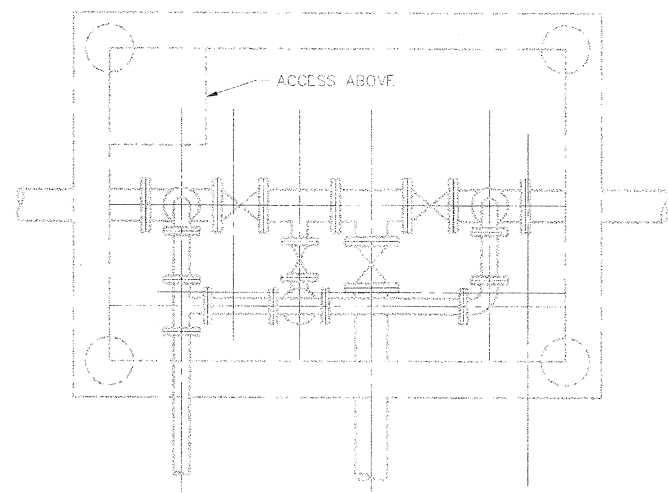


CITY OF GEORGETOWN
SOUTH CAROLINA

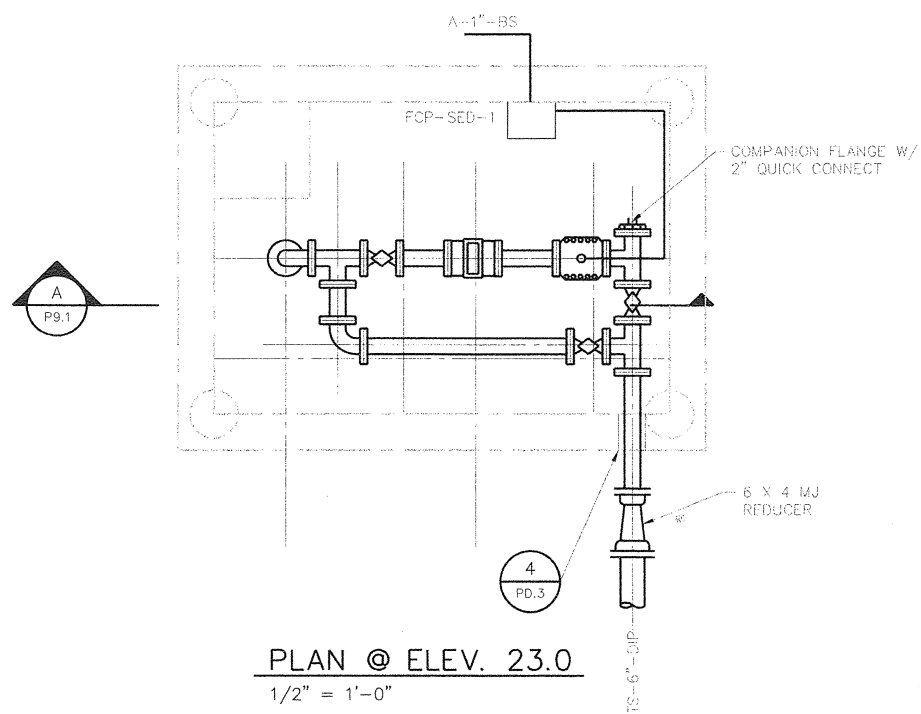


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| RAW WATER PUMPING BUILDING IMPROVEMENTS POTASSIUM PERMANGANATE SYSTEM | | | |
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2000 | P8.1 |
| DRAWN: RB | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
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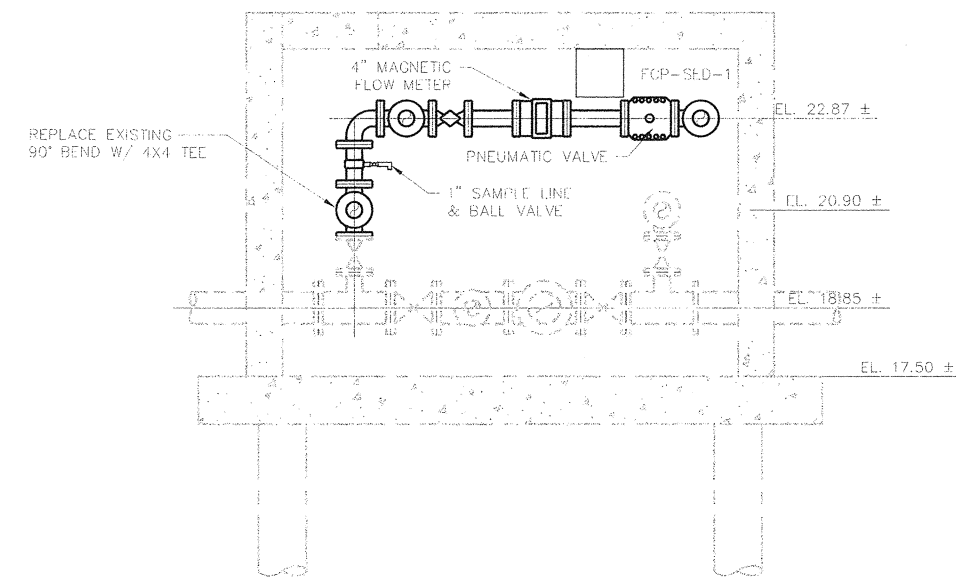
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EXISTING PIPING PLAN
1/2" = 1'-0"



PLAN @ ELEV. 23.0
1/2" = 1'-0"



SECTION
1/2" = 1'-0"

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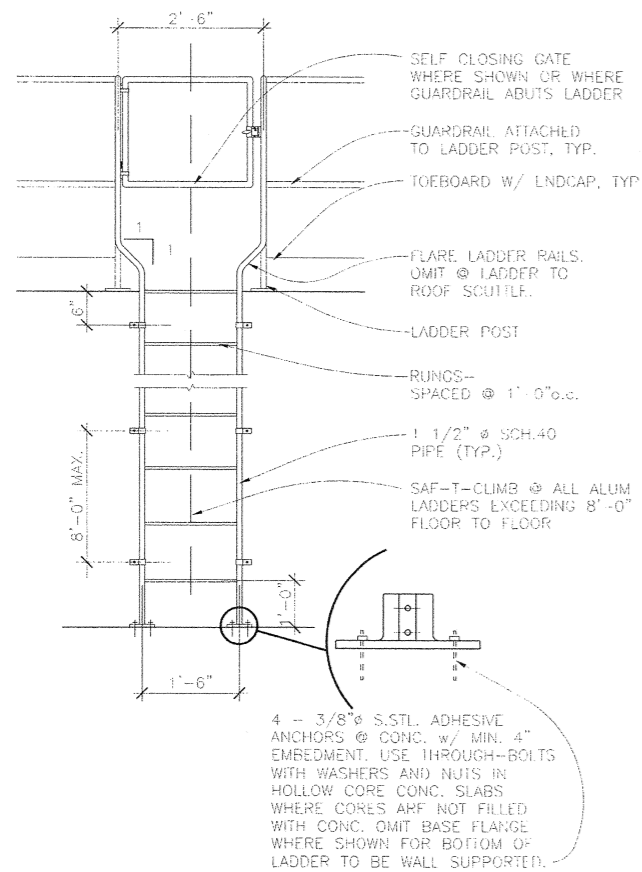


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SOUTH CAROLINA

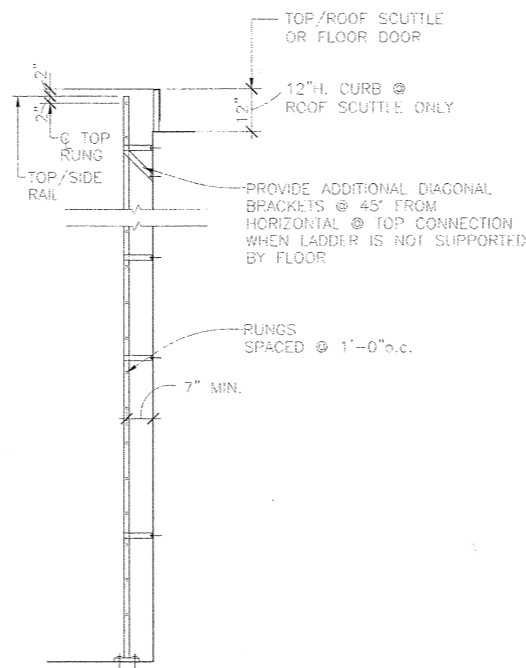


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| SLUDGE CONTROL STRUCTURE MODIFICATIONS | | | |
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2001 | Pg.1 |
| DRAWN: ST | JOB NO. 2193.006 | SCALE: 1/2" = 1'-0" | 1 REV |

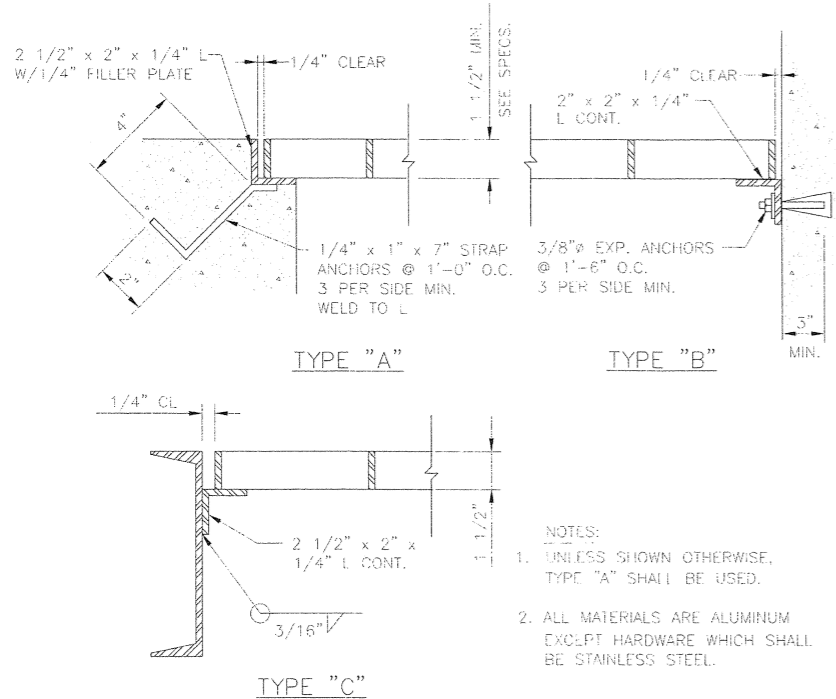
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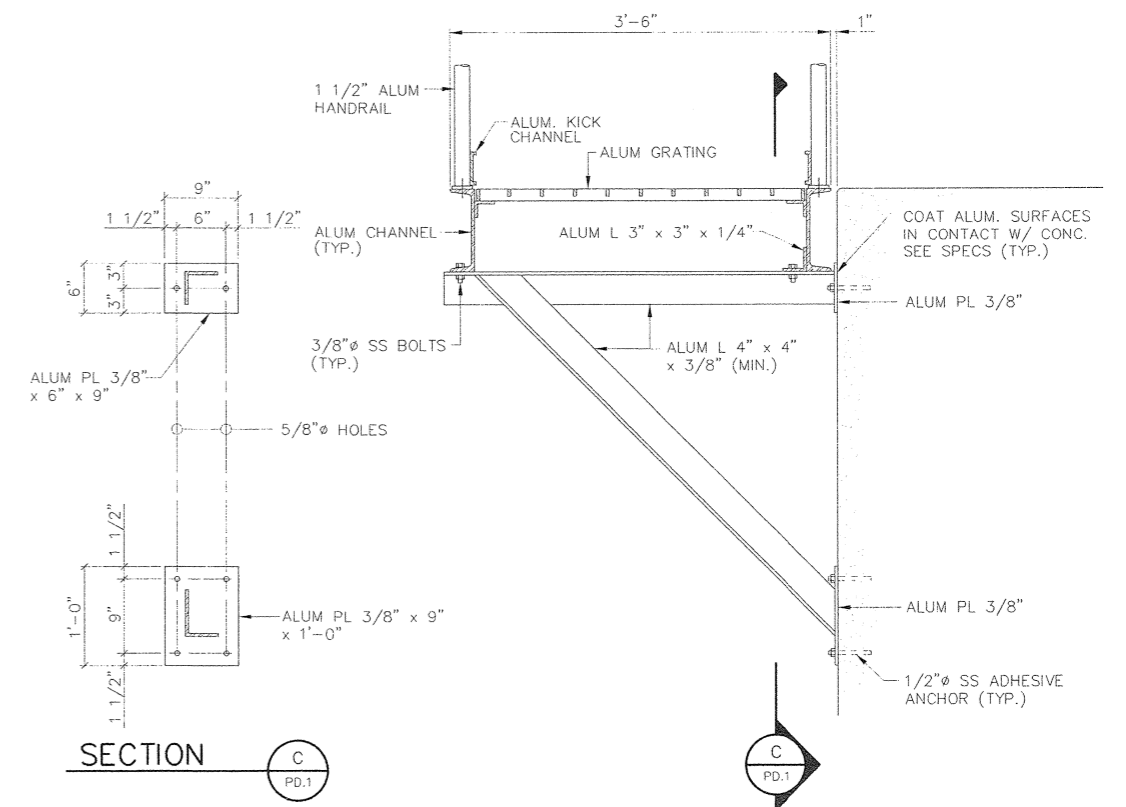
1 P4.1 TYPICAL ALUMINUM LADDER DETAILS N.T.S.



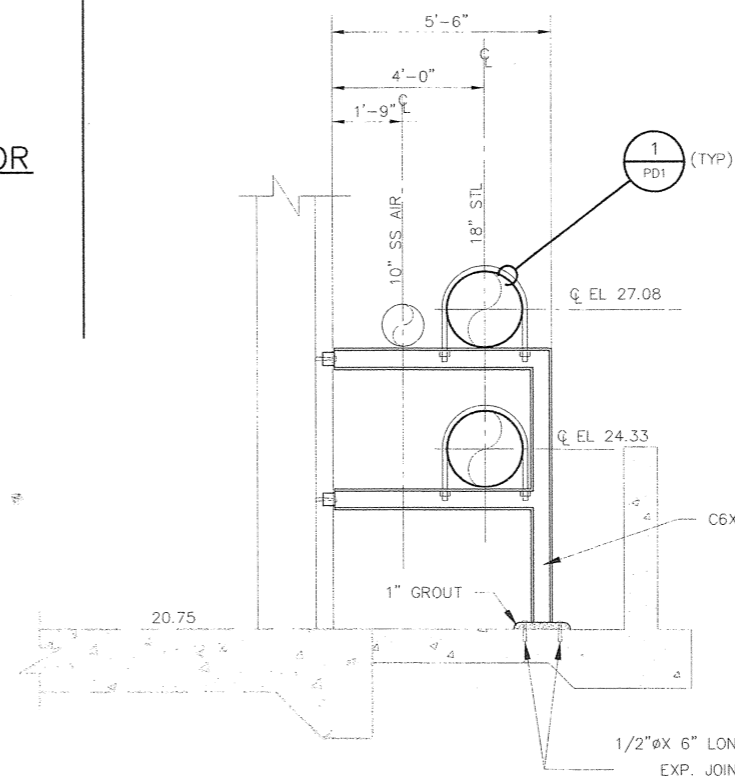
A A4.5 TYPICAL ALUM. LADDER TO ROOF SCUTTLE OR FLOOR DOOR N.T.S.



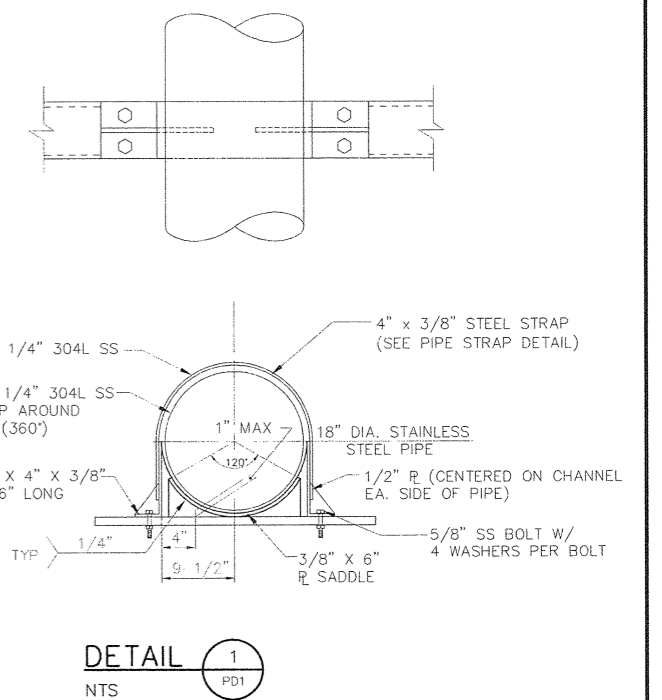
7 TYPICAL ALUMINUM GRATING DETAILS N.T.S.



4 SUPPORT BRACKET DETAIL N.T.S. P3.3



6 PIPE SUPPORT DETAIL N.T.S. P4.2



NOTE: ALL FRAME COMPONENTS SHALL BE HOT-DIP GALVANIZED FOLLOWING FABRICATION

SADDLE, STRAP AND ANCHORS SHALL BE STAINLESS STEEL

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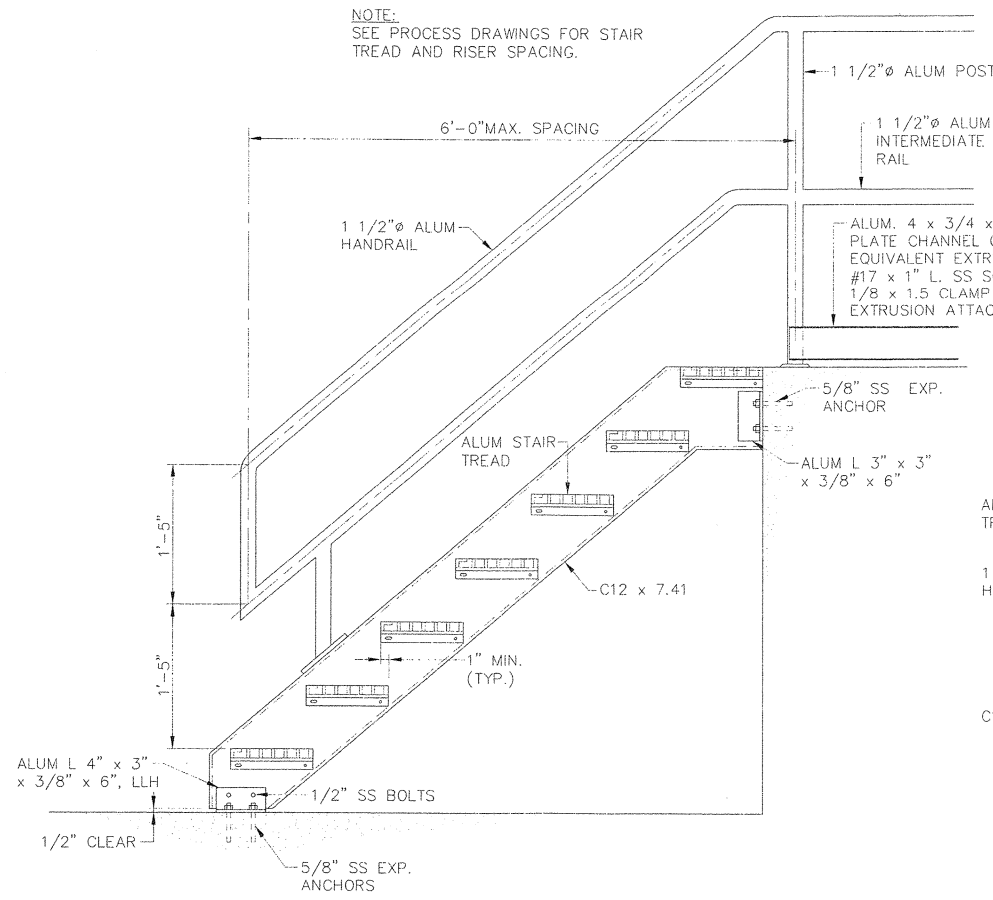


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

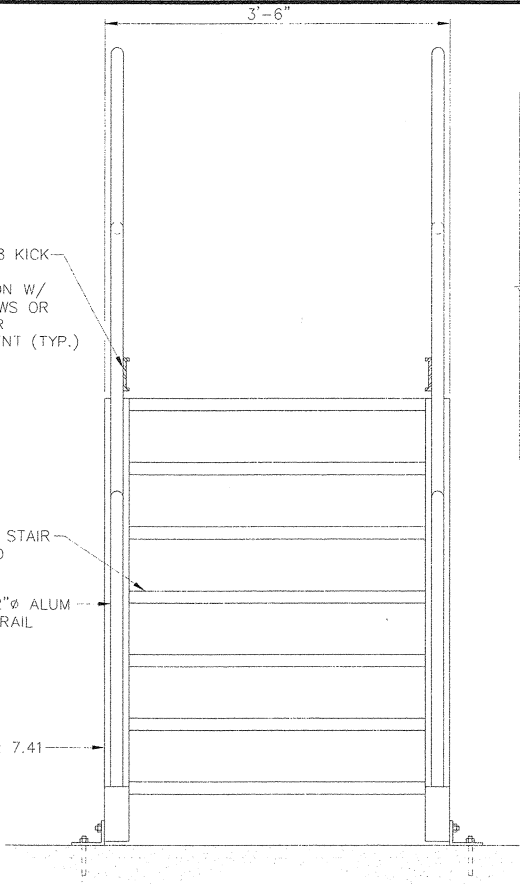
MISCELLANEOUS METALS

| | | | | |
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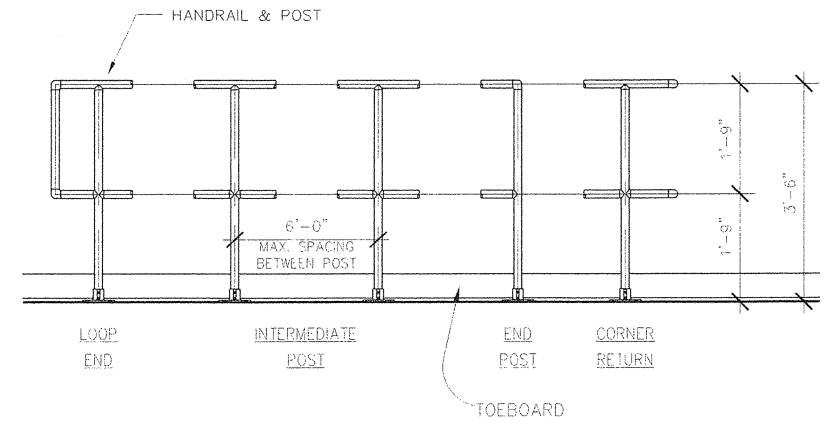
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TYPICAL SINGLE FLIGHT ALUMINUM STAIR DETAIL 1 PD.2



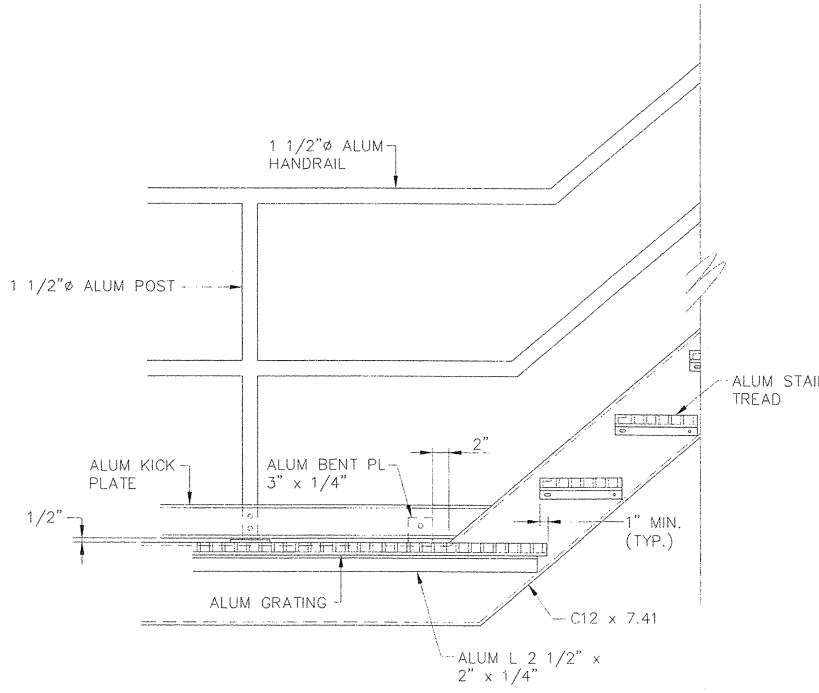
TYPICAL PLAN AT INTERMEDIATE LANDING ALUMINUM STAIR DETAIL NTS



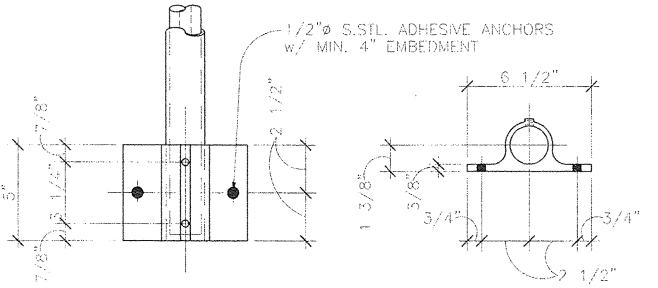
TYPICAL ALUMINUM HANDRAIL DETAILS 8 PD.2

NOTE: MAX. POST SPACING 6'-0" O.C.

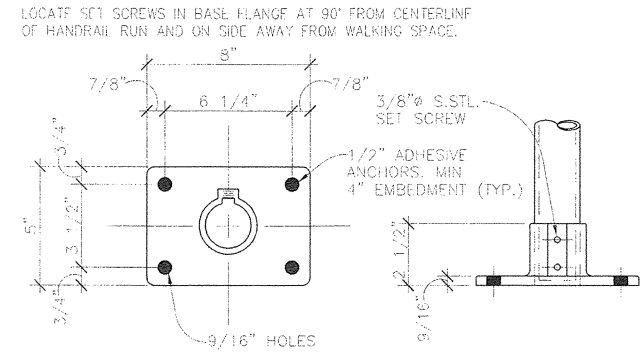
ELEVATION



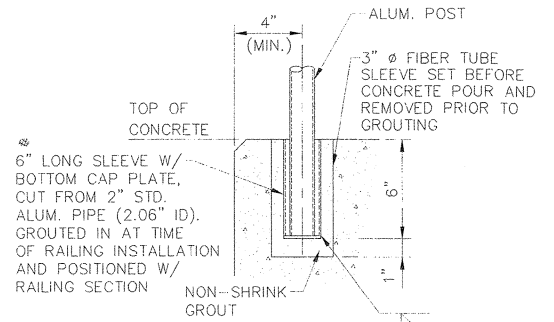
TYPICAL STAIR LANDING TO GRATING 2 PD.2



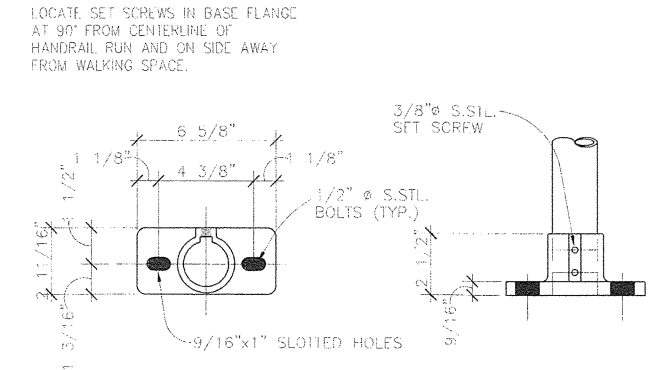
SIDE MOUNT HANDRAIL DETAIL 3 PD.2



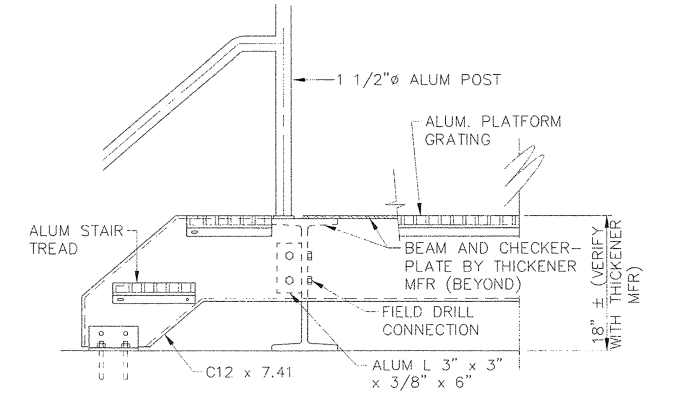
EMBEDDED HANDRAIL DETAIL 4 PD.2



REMOVABLE HANDRAIL DETAIL 5 PD.2



TYP. CHANNEL MOUNT ALUM POST DETAIL 6 PD.2



STAIR CONNECTION TO SETTLER BRIDGE 10 PD.2

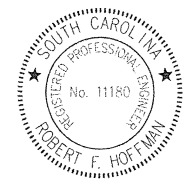
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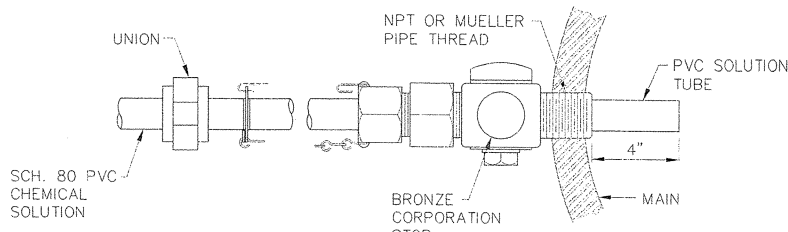
CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

MISCELLANEOUS PROCESS METALS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: RFH | CHECKED: | DATE: NOVEMBER 2000 | PD.2 | 1 |
| DRAWN: RB | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

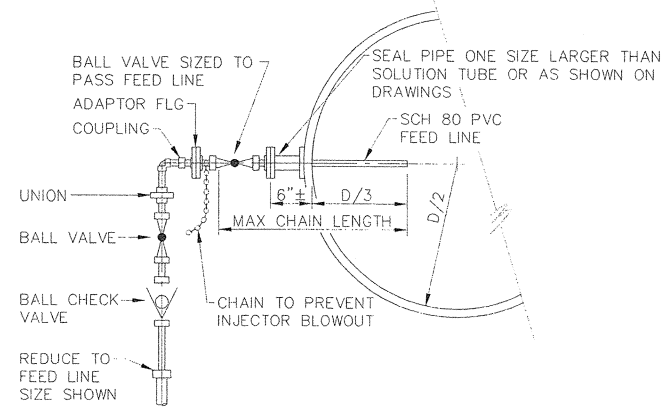
PROCESS PIPING NOTES

1. FLANGED BENDS IN DUCTILE IRON PIPE ARE SHORT RADIUS UNLESS OTHERWISE INDICATED.
2. ELBOWS IN FABRICATED STAINLESS STEEL PIPE ARE LONG RADIUS UNLESS OTHERWISE NOTED
3. PIPE SUPPORTS, HANGERS AND BRACKETS NECESSARY TO INSTALL PIPING AND THE SPACING OF SUPPORTS SHALL BE PROVIDED AS SPECIFIED IN SECTION 15094 UNLESS OTHERWISE INDICATED.
4. PROVIDE STAINLESS STEEL HANGERS, RODS AND HARDWARE WHERE INDICATED. SPACING SHALL BE AS SPECIFIED FOR GENERAL PURPOSE HANGERS.
5. THE CONTRACTOR SHALL MAKE ALL REQUIRED FIELD MEASUREMENTS TO VERIFY EXISTING DIMENSIONS AND ELEVATIONS.
6. ALL PLUG VALVES SHALL BE LEVER OPERATED UNLESS OTHERWISE NOTED.
7. ALL PENETRATIONS OF CONCRETE STRUCTURES BY DUCTILE IRON PIPE 4-INCHES IN DIAMETER AND LARGER SHALL BE MADE WITH NEW MECHANICAL JOINT WALL SLEEVES UNLESS OTHERWISE SHOWN ON THE DRAWINGS. PROVIDE RETAINER GLANDS WHERE SHOWN.



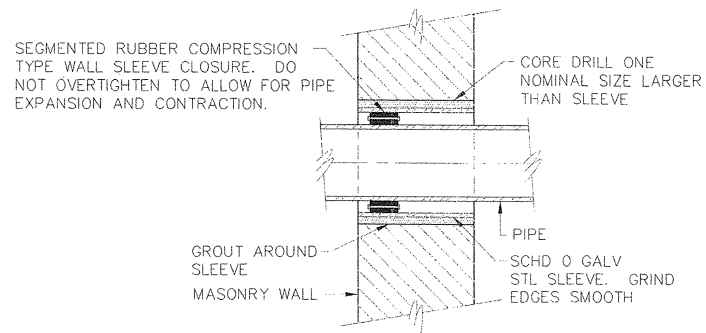
SOLUTION DIFFUSER DETAIL
(TYPE A)

1
PD.3



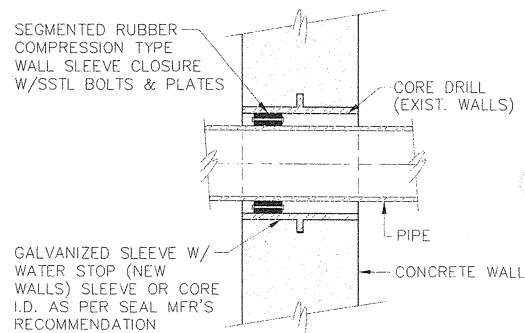
SOLUTION DIFFUSER DETAIL
(TYPE B)

2
PD.3



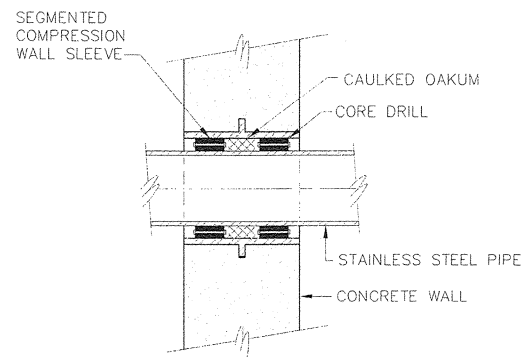
MASONRY WALL SLEEVE DETAIL
NTS

3
PD.3



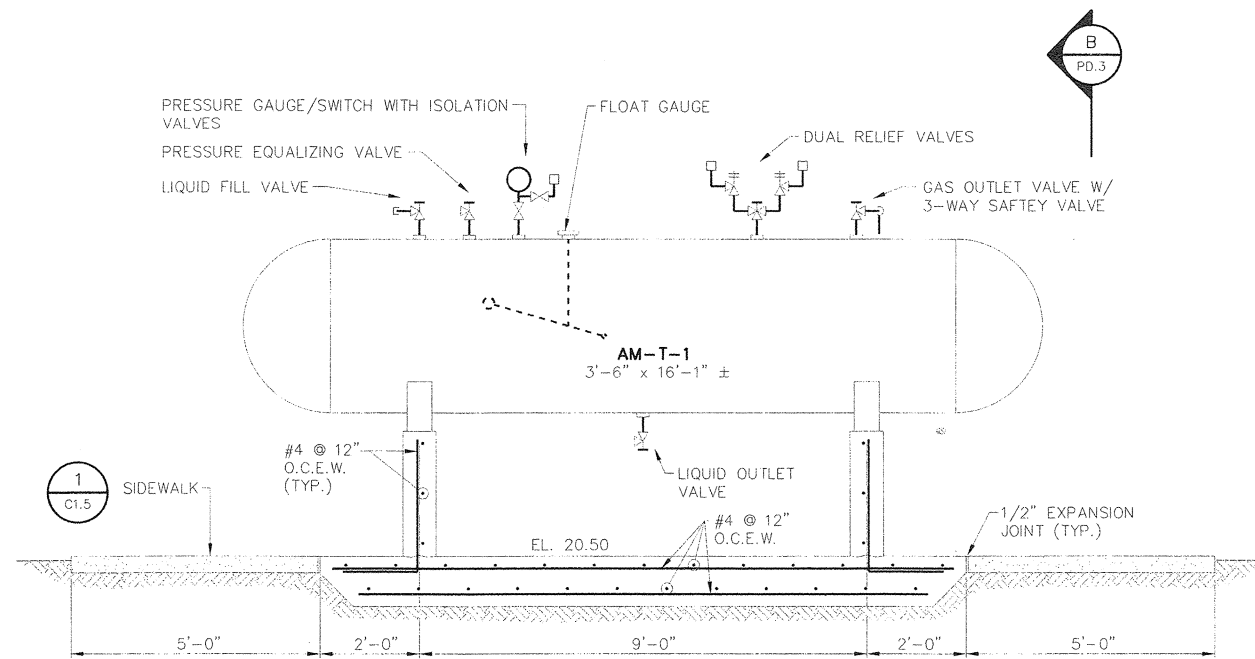
WALL PENETRATION DETAIL
NTS

4
PD.3



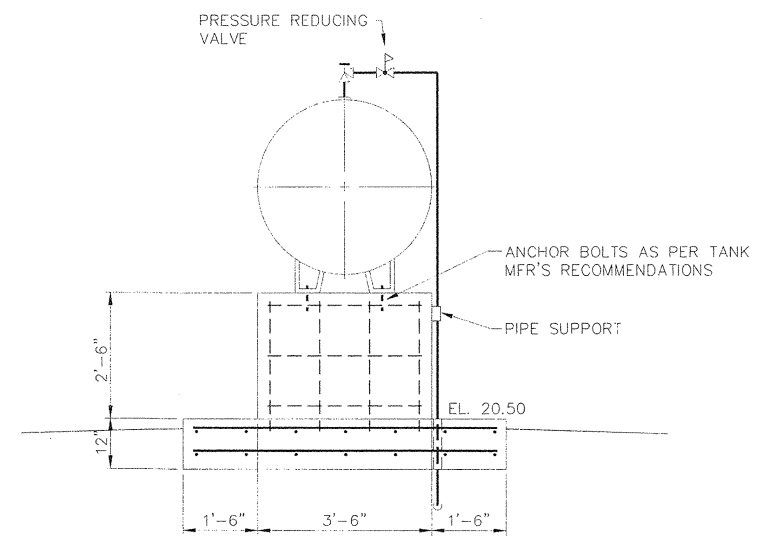
WALL PENETRATION DETAIL
NTS

4
PD.3



ANHYDROUS AMMONIA TANK
NTS

5
PD.3



SECTION B
NTS

B
PD.3

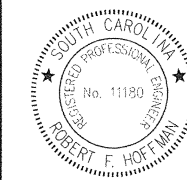
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WATER TREATMENT PLANT IMPROVEMENTS

MISCELLANEOUS PROCESS DETAILS

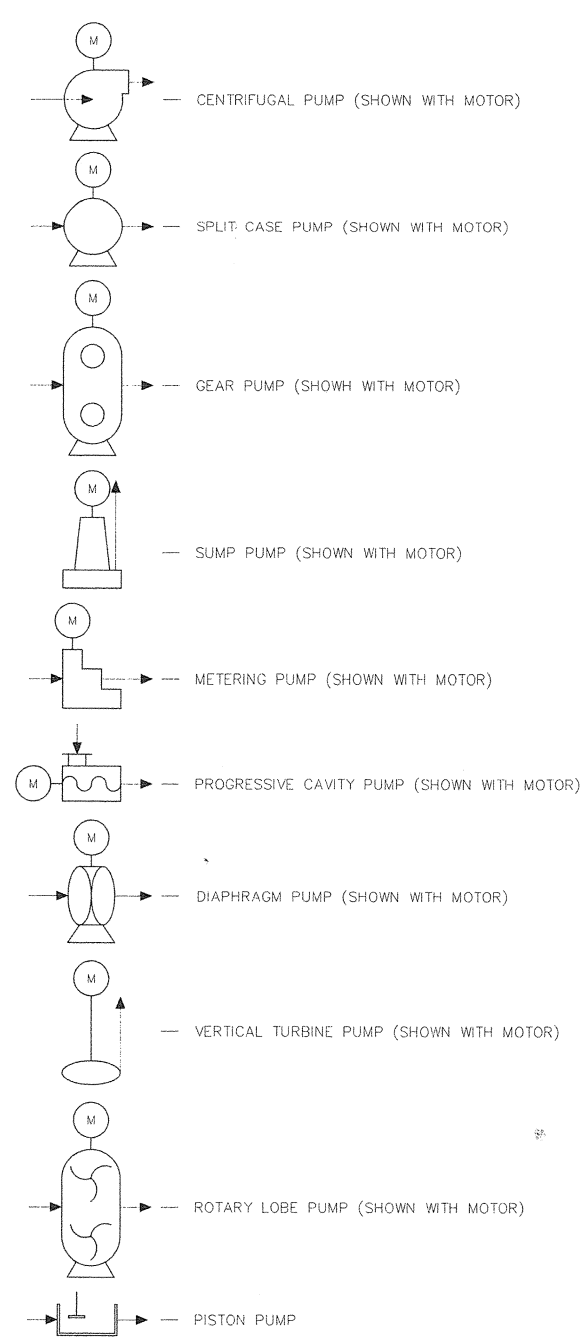
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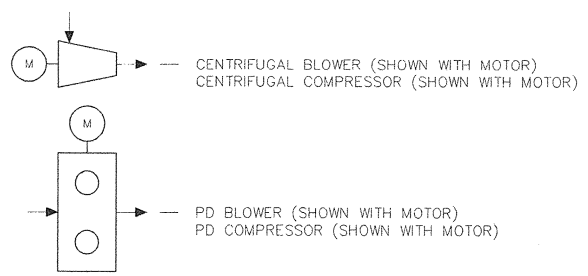
PIPING AND VALVE SYMBOLS



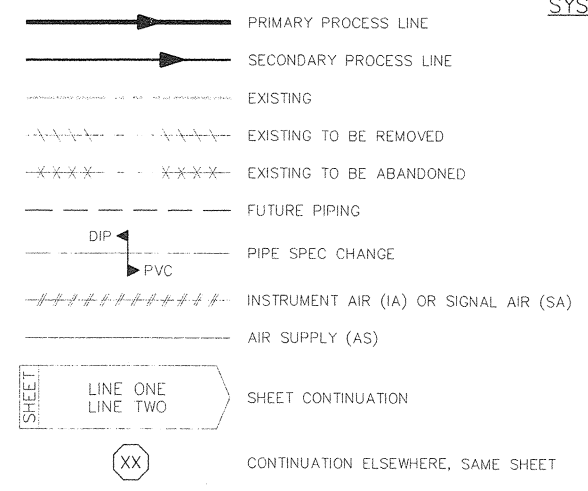
PUMP SYMBOLS



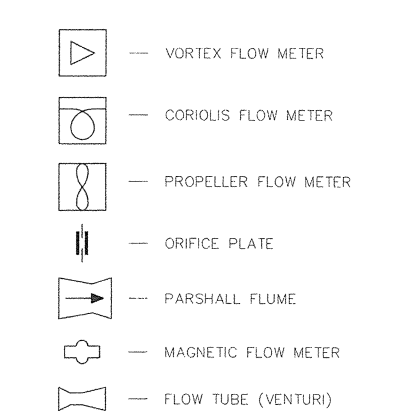
BLOWER/COMPRESSOR SYMBOLS



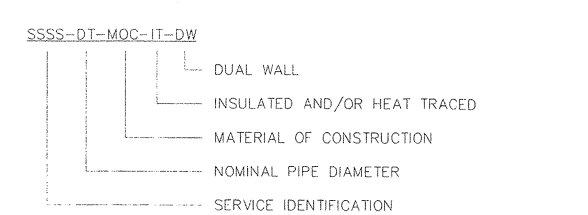
LINE SYMBOLS



FLOW ELEMENT SYMBOLS



PIPELINE IDENTIFICATION



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- SEE CIVIL AND PROCESS DRAWINGS FOR PIPING DETAILS.
- ALL INFORMATION ON THIS LEGEND MAY NOT BE USED.

SYSTEM, PROCESS & SERVICE LEGEND

| SYSTEM OR UNIT DESIGNATION | | SERVICE IDENTIFICATION | |
|----------------------------|-------------------------|------------------------|----------------------------------|
| A | AERATOR | AS | AIR SERVICE |
| AB | AERATION BASIN | AL | ALUM |
| AC | AIR COMPRESSOR | BIOG | BIO-GAS |
| ADIG | ANAEROBIC DIGESTER | BWS | BACKWASH SUPPLY |
| BFP | BELT FILTER PRESS | BYP | BYPASS |
| BL | BLOWER | CAUS | CAUSTIC |
| BLR | BOILER | CD | CONDENSATE |
| CENT | CENTRIFUGE | CHWR | COOLING WATER RETURN |
| CLA | CHEMICAL LOAD AREA | CHWS | COOLING WATER SUPPLY |
| CLAR | CLARIFIER | CL | CHLORINE |
| CLAS | CLASSIFIER | COAG | COAGULANT |
| CON | CONVEYOR | COMP | COMPOST |
| DAF | DISSOLVED AIR FLOTATION | D | DRAIN |
| DER | DEAERATOR | DSL | DIGESTED SLUDGE |
| DIG | DIGESTER | FE | FILTER EFFLUENT |
| DT | DAY TANK | FECL | FERRIC CHLORIDE |
| ED | EDUCTOR | FI | FILTER INFLUENT |
| EFF | EFFLUENT | FL | FILTRATE |
| EQ | EQUALIZATION | FLU | FLUORIDE |
| FOT | FUEL OIL TANK | FOR | FUEL OIL RETURN |
| FP | FILTER PRESS | FOS | FUEL OIL SUPPLY |
| GRC | GRIT CHAMBER | GR | GRIT |
| HT | HOLDING TANK | HPS | HIGH PRESSURE STEAM |
| INF | INFLUENT | HPW | HIGH PRESSURE WATER |
| LA | LAND APPLICATION | HWR | HEATED WATER RETURN |
| MP | METERING PUMP | HWS | HEATED WATER SUPPLY |
| MX | MIXER | IA | INSTRUMENT AIR |
| NAOCL | SODIUM HYPOCHLORITE | L | LIME |
| NEU | NEUTRALIZATION | LP | LP GAS TANK |
| O/W | OIL WATER SEPARATOR | LPO | LIQUID POLYMER |
| P | PUMP | LPS | LOW PRESSURE STEAM |
| PA | POST AERATION | MH | METHANE |
| SAMP | SAMPLER | ML | MIXED LIQUOR |
| SB | SPLITTER BOX | NH | AMMONIA |
| SCR | SCRUBBER | NAOH | SODIUM HYDROXIDE |
| SCRN | SCREEN | NG | NATURAL GAS |
| SEP | SEPARATOR | NPW | NON-POTABLE WATER |
| SHT | SLUDGE HOLDING TANK | NPY | NEAT POLYMER |
| T | TANK | NU | NUTRIENT |
| THK | THICKENER | OG | OFF GAS |
| | | PD | PROCESS DRAIN |
| | | PE | PRIMARY EFFLUENT |
| | | PHOS | PHOSPHATE |
| | | PI | PRIMARY INFLUENT |
| | | POA | PHOSPHORIC ACID |
| | | PSL | PRIMARY SLUDGE |
| | | PW | POTABLE WATER |
| | | PY | POLYMER |
| | | RAS | RETURN ACTIVATED SLUDGE |
| | | RO | RECOVERED OIL |
| | | SA | SULFURIC ACID |
| | | SAM | SAMPLE LINE |
| | | SAM | SAMPLER |
| | | SC | SCUM |
| | | SD | STORM DRAIN |
| | | SL | SLUDGE |
| | | SS | SANITARY SEWER |
| | | THDSL | THICKENED DIGESTED SLUDGE |
| | | THWAS | THICKENED WASTE ACTIVATED SLUDGE |
| | | UD | UNDERDRAIN |
| | | UW | UTILITY WATER |
| | | WAS | WASTE ACTIVATED SLUDGE |
| | | WAT | WATER |

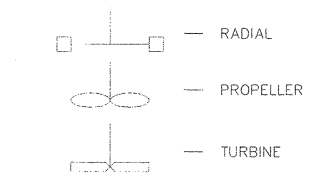
ABBREVIATIONS

| | |
|------|-------------------------------|
| B | BURNER |
| BRH | BLOWDOWN HEAT RECOVERY |
| BT | BULK TANK |
| C | CARBON |
| CB | CORE BLOW |
| CHEM | CHEMICAL FEED |
| CONC | CONCRETE |
| CS | CARBON STEEL (SEAMLESS) |
| EF | EXHAUST FAN |
| ELSG | ELECTRIC SLUICE GATE |
| EMV | ELECTRIC MOTOR OPERATED VALVE |
| FC | FAILED CLOSED |
| FCP | FIELD CONTROL PANEL |
| FIN | FINAL |
| FL | FAIL LOCKED |
| FLOC | FLOCCULATION |
| FO | FAILED OPEN |
| HSG | HYDRAULIC SLUICE GATE |
| HT | HEAT TRACE |
| HV | HYDRAULIC VALVE |
| INT | INTERMEDIATE |
| IT | INSULATE & HEAT TRACE |
| LC | LEVEL CONTROL |
| LCP | LOCAL CONTROL PANEL |
| MCP | MAIN CONTROL PANEL |
| ME | MECHANICAL EQUIPMENT |
| MV | METERING VAULT |
| MV | MOTORIZED VALVE |
| NC | NORMALLY CLOSED |
| NO | NORMALLY OPEN |
| PE | PROCESS EQUIPMENT |
| PG | PIPE GALLERY |
| PRCS | PROCESS BUILDING |
| REC | RECYCLE |
| RM | ROTAMETER |
| RP | RECIRCULATING PUMP |
| S | SUMP |
| SF | SUPPLY FAN |
| SG | SLIDE GATE |
| SLG | SLUICE GATE |
| SMX | STATIC MIXER |
| STG | STAGE |
| SV | SOLENOID VALVE |
| SYS | SYSTEM |
| TCV | TEMPERATURE CONTROL VALVE |
| V | VALVE |
| VTX | VORTEX |
| WG | WEIR GATE |

MATERIAL OF CONSTRUCTION

| | |
|------|--------------------------------|
| BS | BLACK STEEL |
| CISP | CAST IRON SOIL PIPE |
| CPVC | CHLORINATED POLYVINYL CHLORIDE |
| CU | COPPER |
| DIP | DUCTILE IRON PIPE |
| FRP | FIBERGLASS REINFORCED PLASTIC |
| GS | GALVANIZED STEEL |
| PB | POLYBUTYLENE |
| PE | POLYETHYLENE |
| PVC | POLYVINYL CHLORIDE |
| SSTL | STAINLESS STEEL |

AGITATOR SYMBOLS



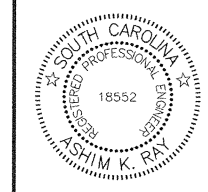
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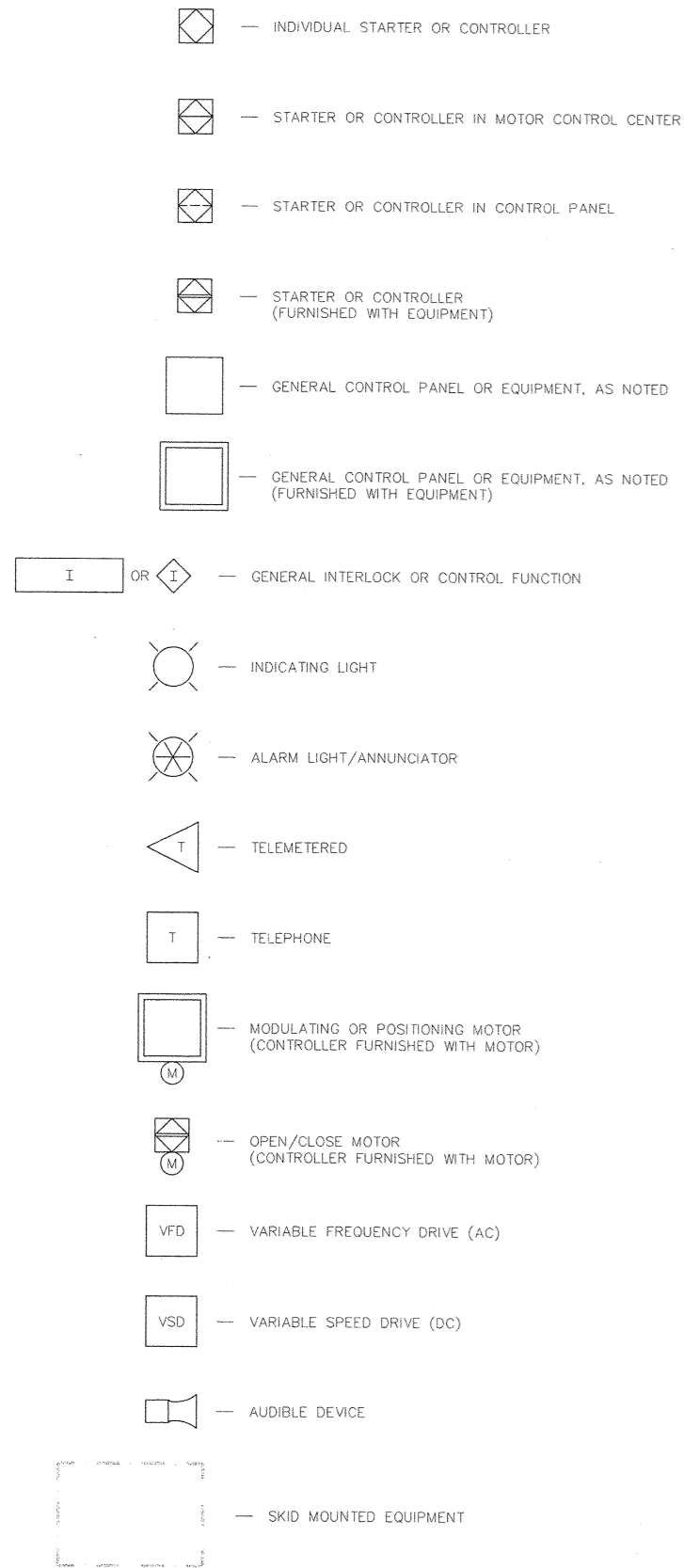
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 WATER TREATMENT PLANT IMPROVEMENTS

**PROCESS AND INSTRUMENTATION DIAGRAM
 RAW WATER CHEMICAL DOSAGE SYSTEMS**

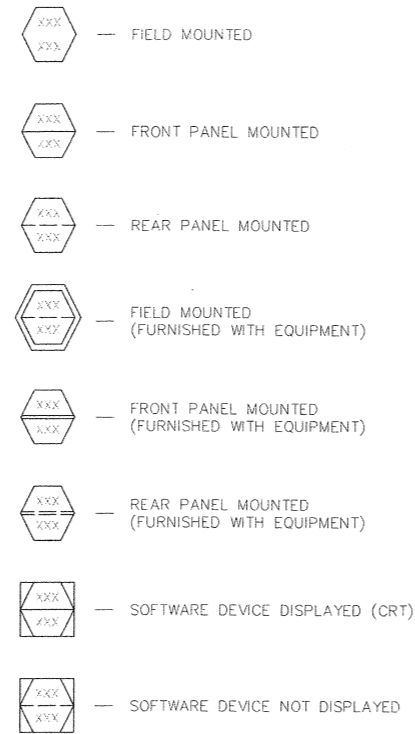
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ELECTRICAL AND CONTROL SYMBOLS



HAND SWITCH SYMBOLS AND LEGEND

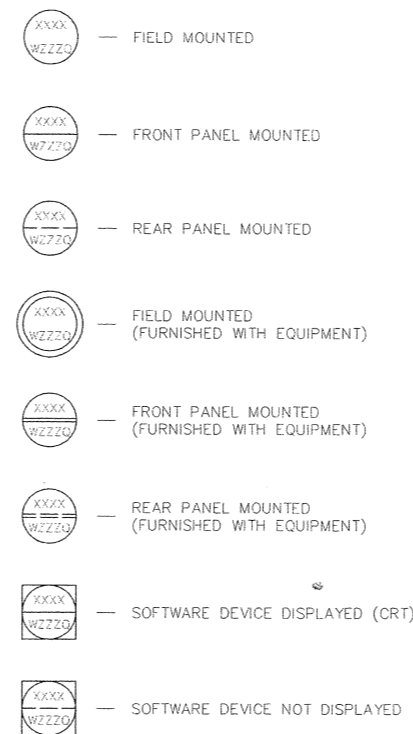


- AB -- FUNCTION SELECTOR
- ES -- EMERGENCY STOP
- FOR -- FORWARD/OFF/REVERSE (MAINTAINED)
- FSR -- FORWARD/STOP/REVERSE (MAINTAINED)
- HOA -- HAND/OFF/AUTO
- LOR -- LOCAL/OFF/REMOTE
- LR -- LOCAL/REMOTE
- MA -- MANUAL/AUTO
- OC -- OPEN/CLOSE
- OCA -- OPEN/CLOSE/AUTO
- OCAO -- OPEN/CLOSE/AUTO/OFF
- OO -- ON/OFF
- R -- RESET
- RSJ -- RUN/STOP/JOG
- S -- SILENCE
- SR -- SAFE/RUN
- SS -- START/STOP
- T -- TEST

ABBREVIATIONS

- CP CONTROL PANEL
- FCP FACTORY CONTROL PANEL
- FWE FURNISHED WITH EQUIPMENT
- LCP LOCAL CONTROL PANEL
- MCC MOTOR CONTROL CENTER
- MCP MAIN CONTROL PANEL
- VIB VIBRATION
- VHC VOLATILE HYDROCARBONS
- TOR TORQUE
- DO DISSOLVED OXIGEN
- ORP OXIDATION REDUCTION POTENTIAL
- pH HYDROGEN ION CONCENTRATION
- SLBL SLUDGE BLANKET LEVEL

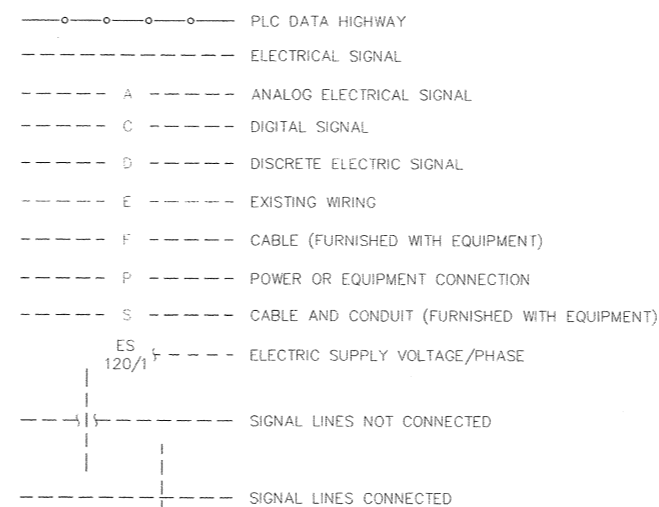
INSTRUMENT SYMBOLS AND DESIGNATIONS



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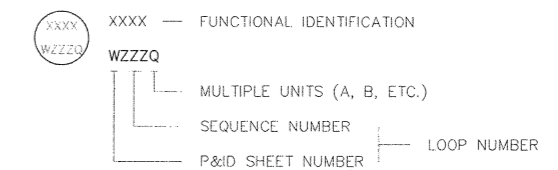
LINE SYMBOLS



LETTERS FOR FUNCTIONAL IDENTIFICATION

| FIRST LETTER | | SUCCEEDING LETTERS | | |
|---------------------------------|------------------------------------|-----------------------------|-------------------------|--|
| MEASURED OR INITIATING VARIABLE | MODIFIER | READOUT OR PASSIVE FUNCTION | OUTPUT FUNCTION | MODIFIER |
| A | ANALYSIS | | ALARM | |
| B | BURNER FLAME | | | |
| C | CONDUCTIVITY (ELECTRICAL) | | CONTROL | |
| D | DENSITY (MASS) OR SPECIFIC GRAVITY | DIFFERENTIAL | | |
| E | VOLTAGE (EMF) | | PRIMARY ELEMENT | |
| F | FLOW RATE | RATIO (FRACTION) | | |
| G | GAGING | | GLASS | |
| H | HAND (MANUALLY INITIATED) | | | HIGH |
| I | CURRENT (ELECTRICAL) | | INDICATE | |
| J | POWER | SCAN | | |
| K | TIME OR SCHEDULE | | CONTROL STATION | |
| L | LEVEL | | LIGHT (PILOT) | LOW |
| M | MOISTURE OR HUMIDITY | MOMENTARY | | MIDDLE OR INTERMEDIATE |
| N | UNCLASSIFIED | | | |
| O | DISSOLVED OXYGEN | | ORIFICE (RESTRICTION) | |
| P | PRESSURE OR VACUUM | | POINT (TEST CONNECTION) | |
| Q | QUANTITY OR EVENT | INTEGRATE OR TOTALIZE | | |
| R | RADIOACTIVITY | | RECORD OR PRINT | |
| S | SPEED OR FREQUENCY | SAFETY | | SWITCH |
| T | TEMPERATURE | | | TRANSMIT OR TRANSMITTER |
| U | MULTIVARIABLE | | MULTIFUNCTION | MULTIFUNCTION |
| V | VIBRATION, MECHANICAL ANALYSIS | | | VALVE, DAMPER OR LOUVER |
| W | WEIGHT OR FORCE | | WELL | |
| X | UNCLASSIFIED | | UNCLASSIFIED | UNCLASSIFIED |
| Y | EVENT, STATE OR PRESENCE | | | RELAY, COMPUTE OR CONVERT |
| Z | POSITION | | | DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT |

INSTRUMENT IDENTIFICATION



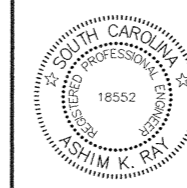
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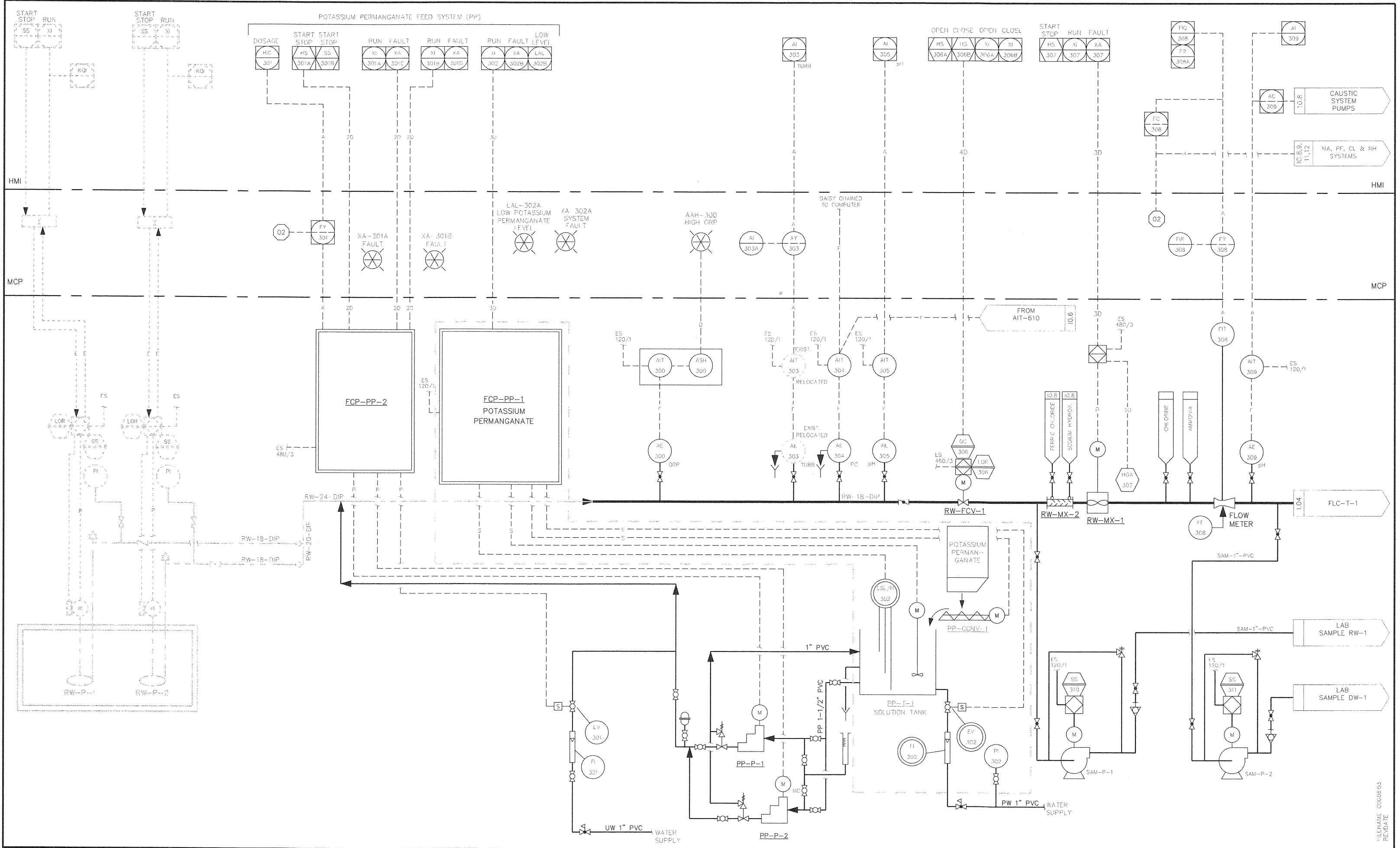


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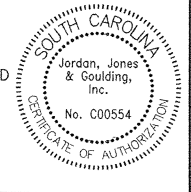


| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | | |
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| PROCESS & INSTRUMENTATION DIAGRAM RAW WATER CHEMICAL DOSAGE SYSTEMS | | | | |
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FILENAME
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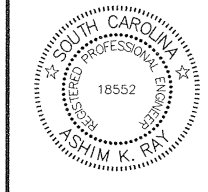
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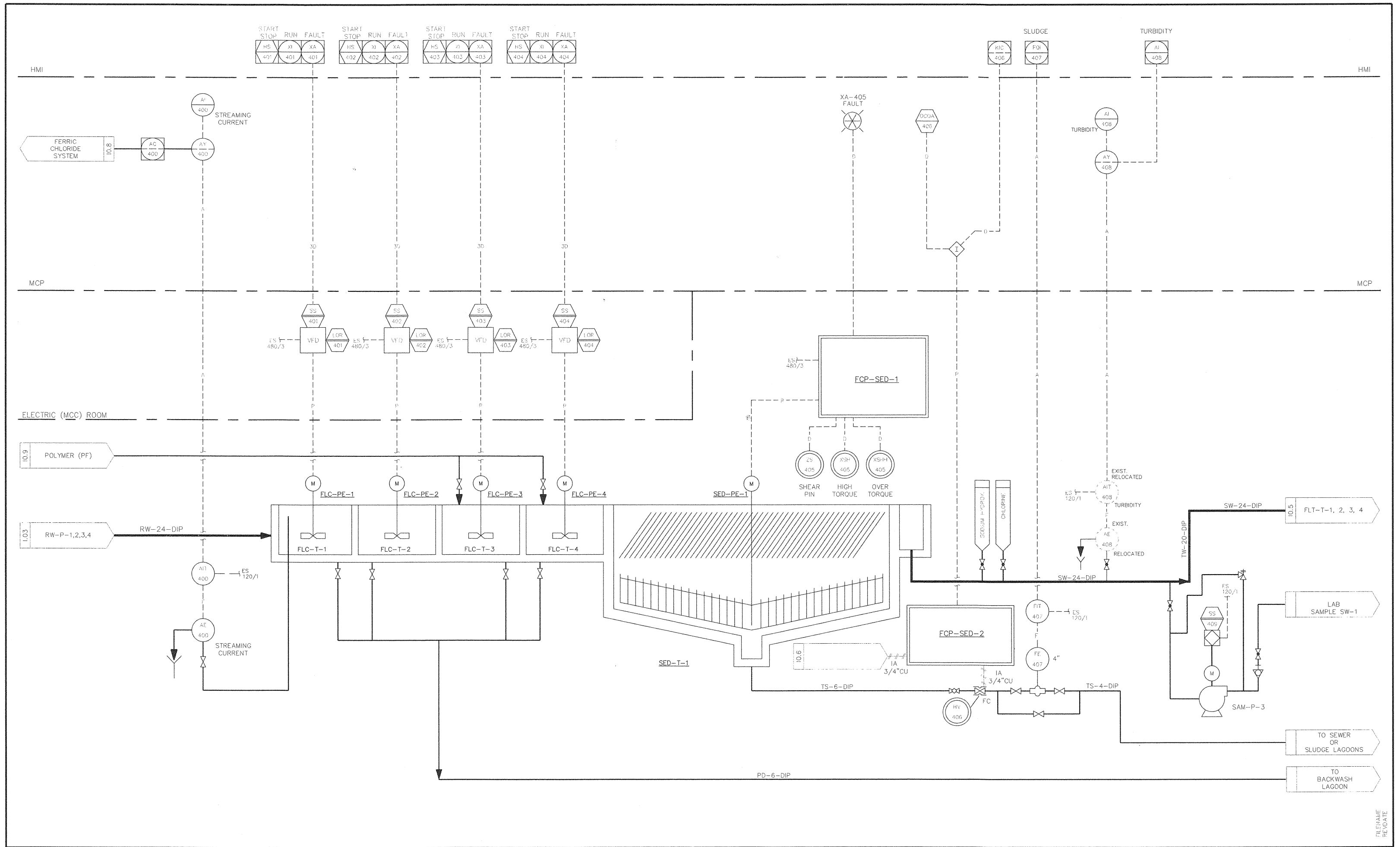
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CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS
 PROCESS & INSTRUMENTATION DIAGRAM
 RAW WATER CHEMICAL DOSAGE SYSTEMS

| | | | | |
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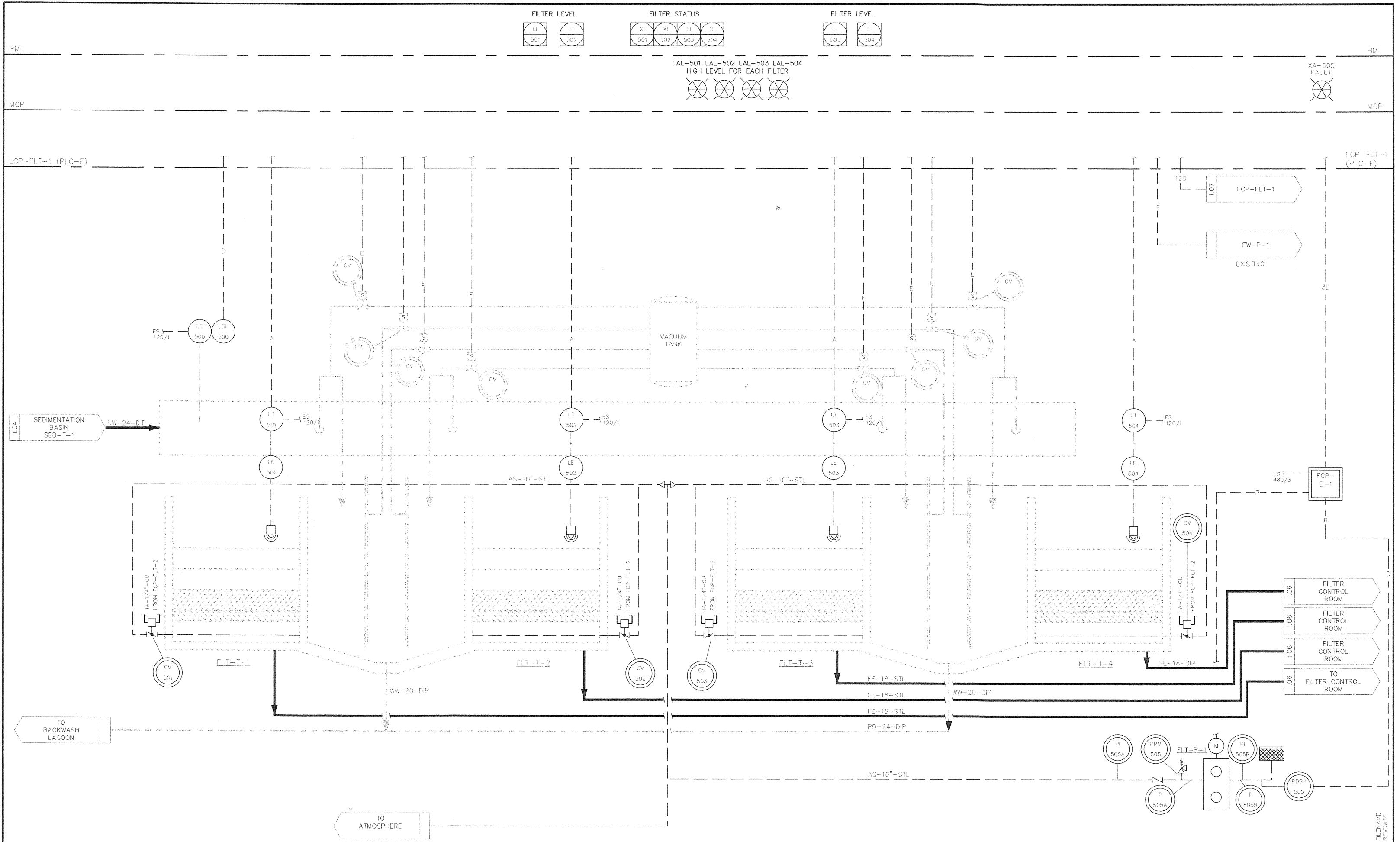


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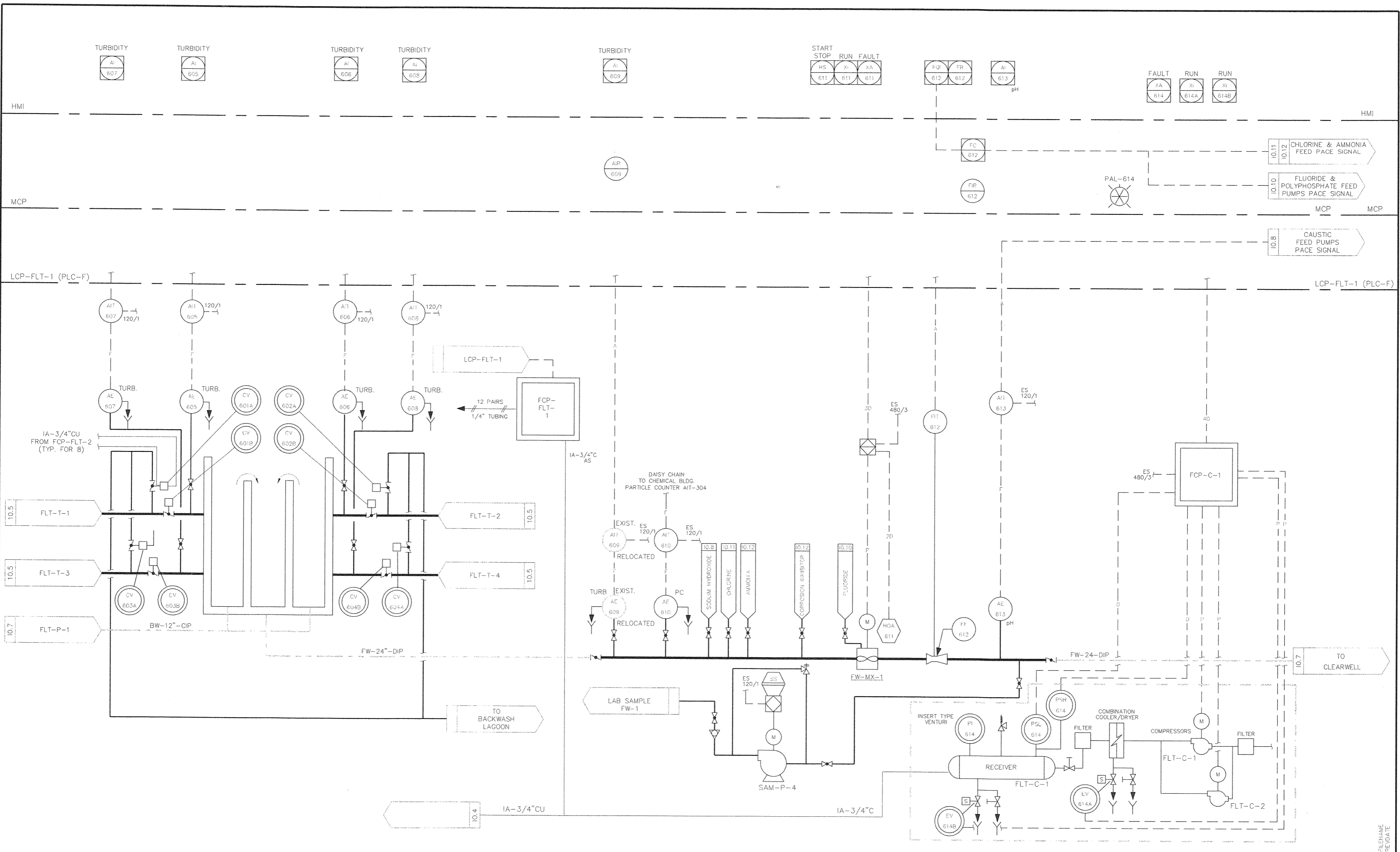


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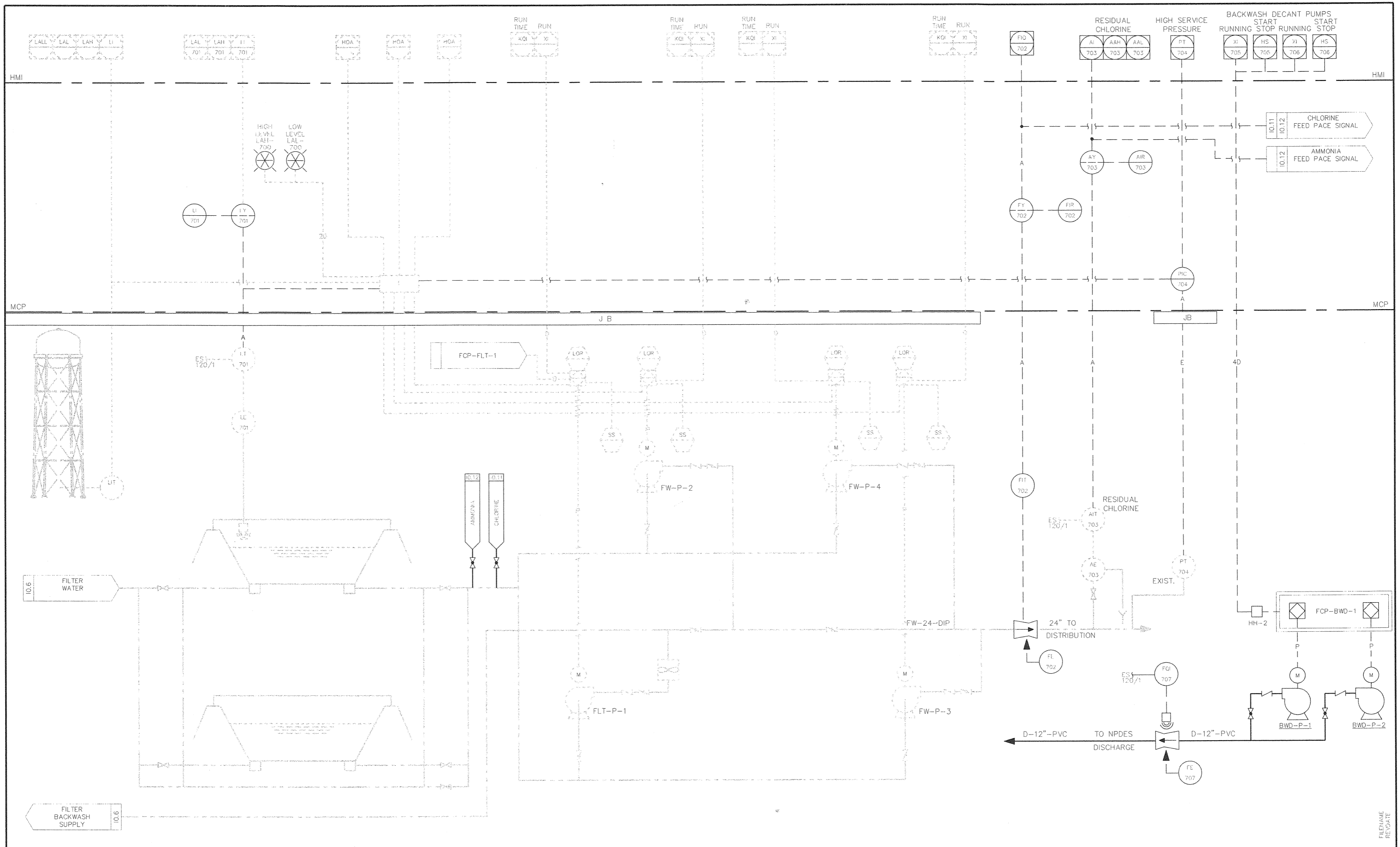
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CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS
**PROCESS AND INSTRUMENTATION DIAGRAM
 FILTERED WATER SYSTEMS**

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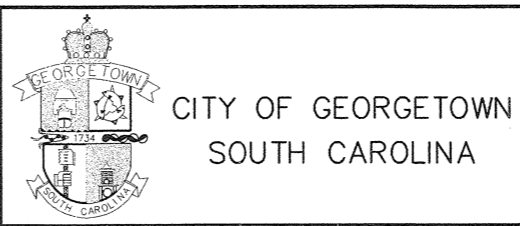
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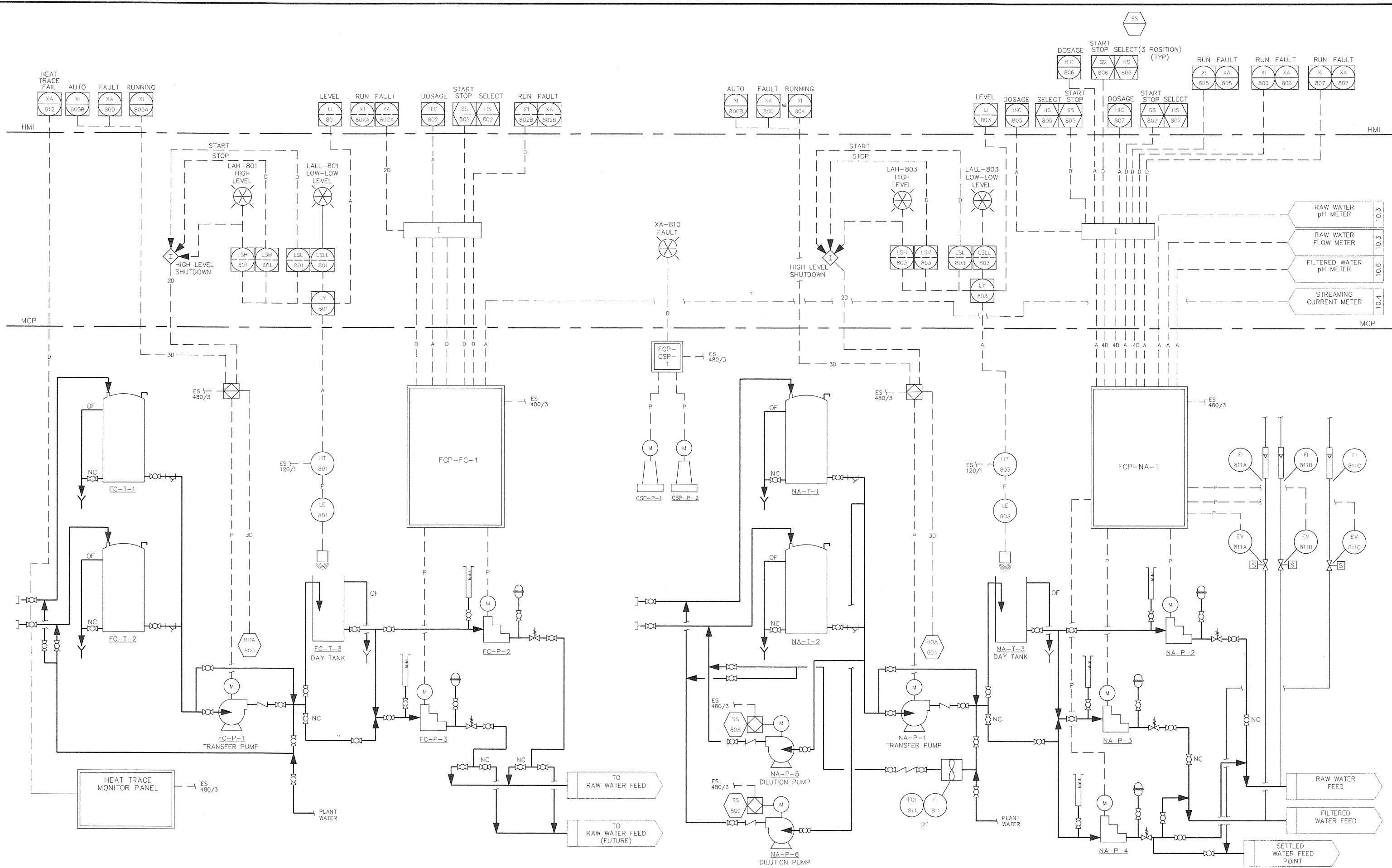
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| PROCESS & INSTRUMENTATION DIAGRAM CLEARWELL AND HIGH SERVICE PUMPING SYSTEM | | | |
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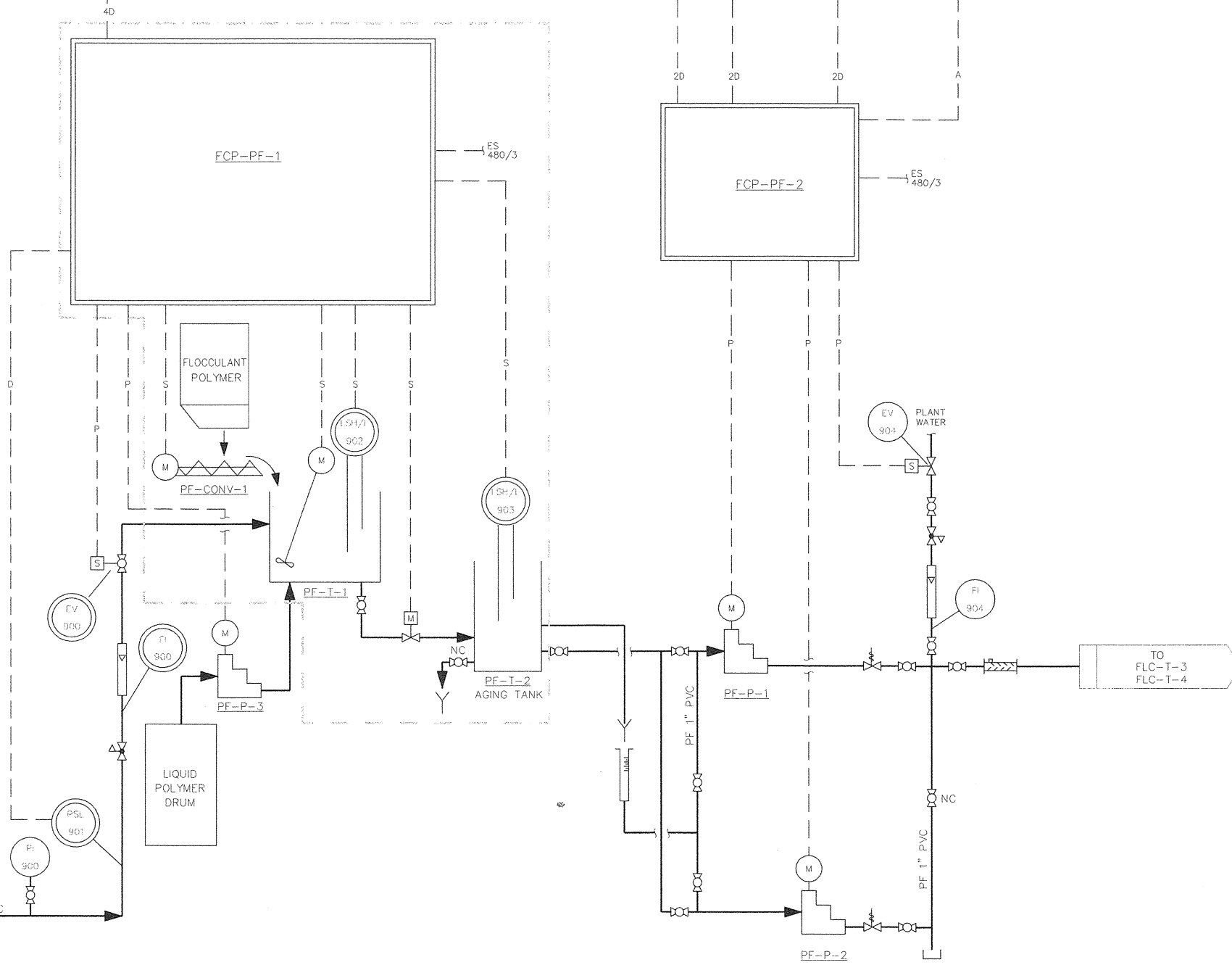
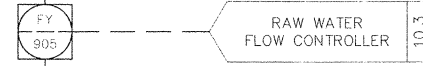
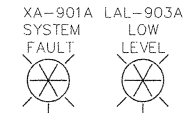
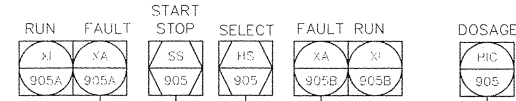
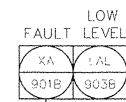
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 SOUTH CAROLINA



CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS
 PROCESS & INSTRUMENTATION DIAGRAM
 CAUSTIC & FERRIC CHLORIDE FEED SYSTEMS

| | | | | |
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| DESIGNED: AZ | CHECKED: | DATE: DECEMBER 1999 | 10.8 | 1 |
| DRAWN: DH | JOB NO. 2193.006 | SCALE: NONE | SHEET | REV |

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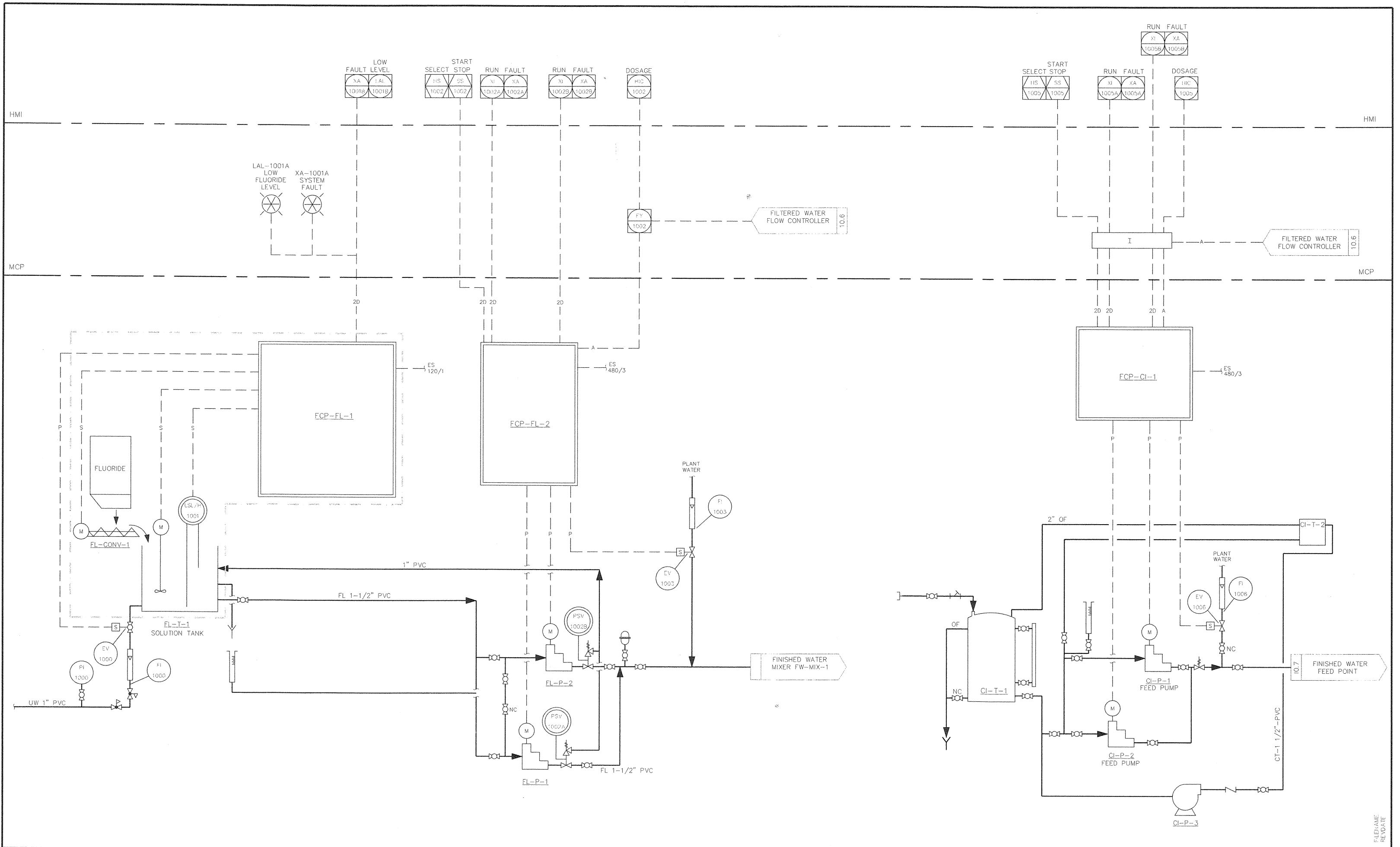
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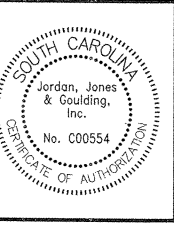
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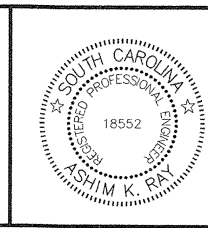
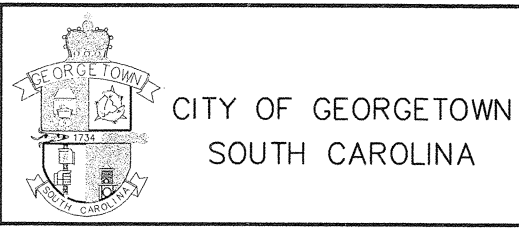
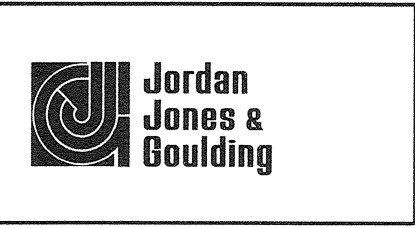
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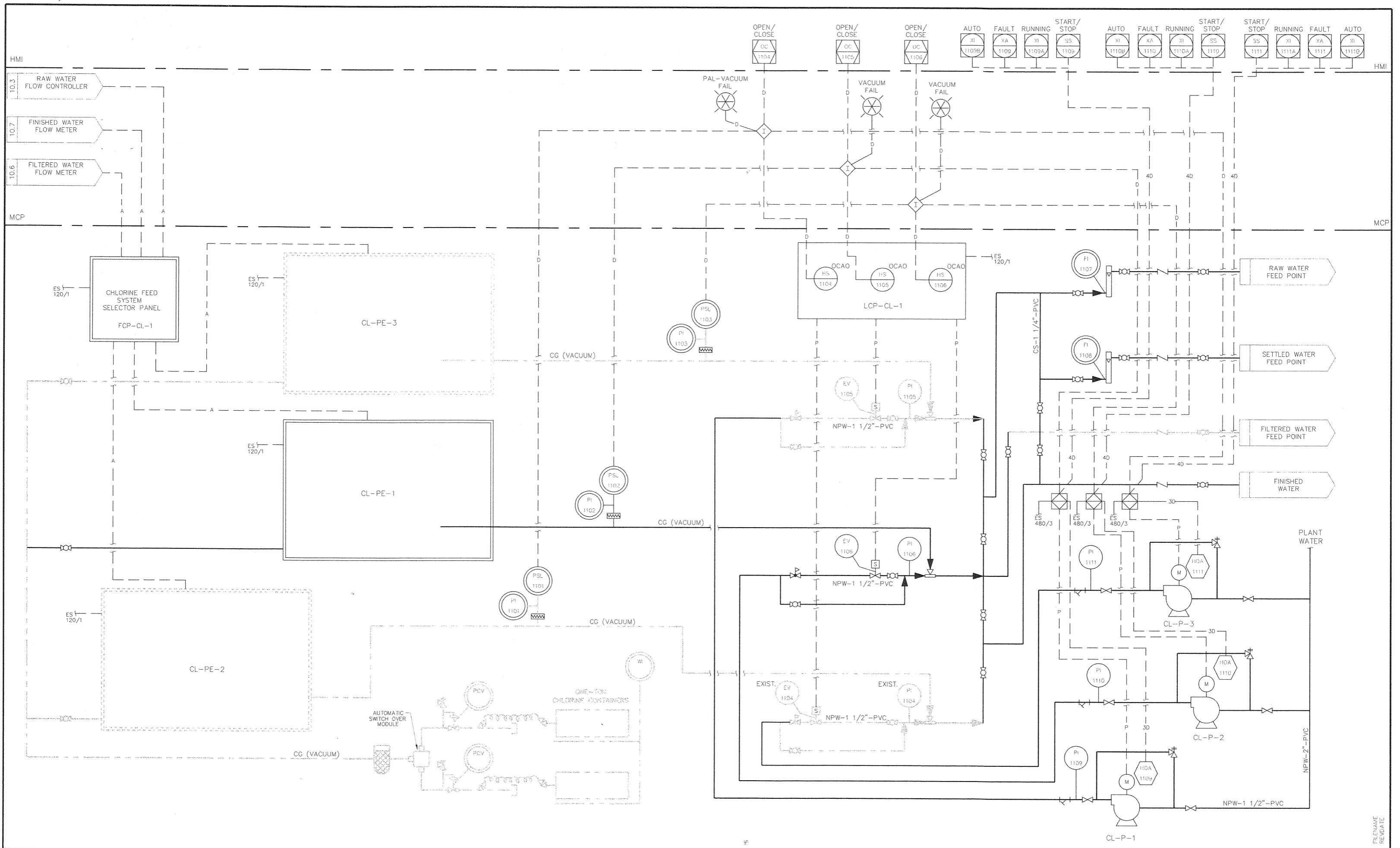


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FILENAME
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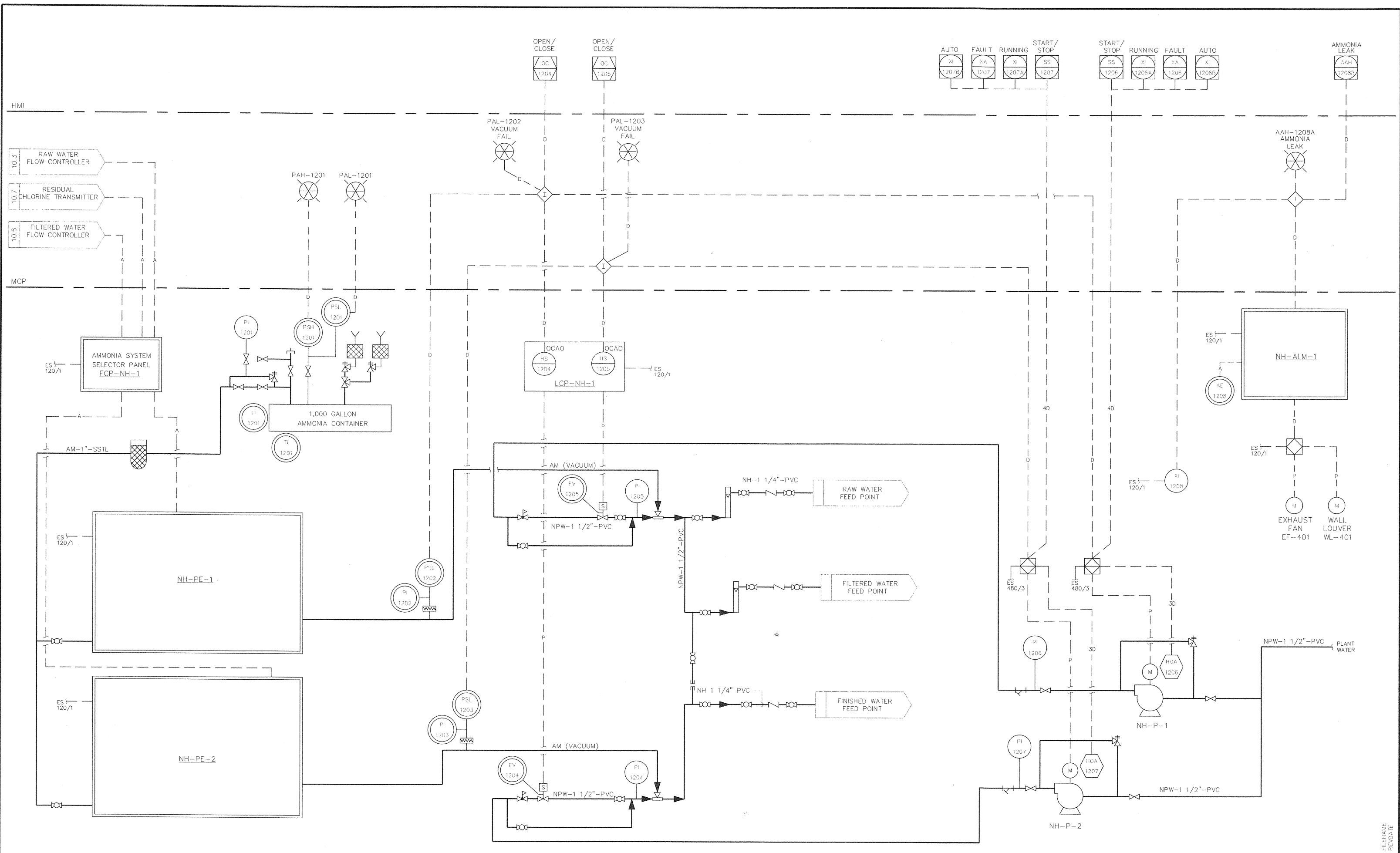
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CITY OF GEORGETOWN
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PROCESS & INSTRUMENTATION DIAGRAM
CHLORINE FEED SYSTEM

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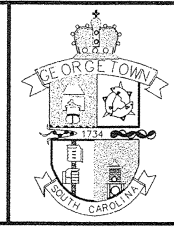
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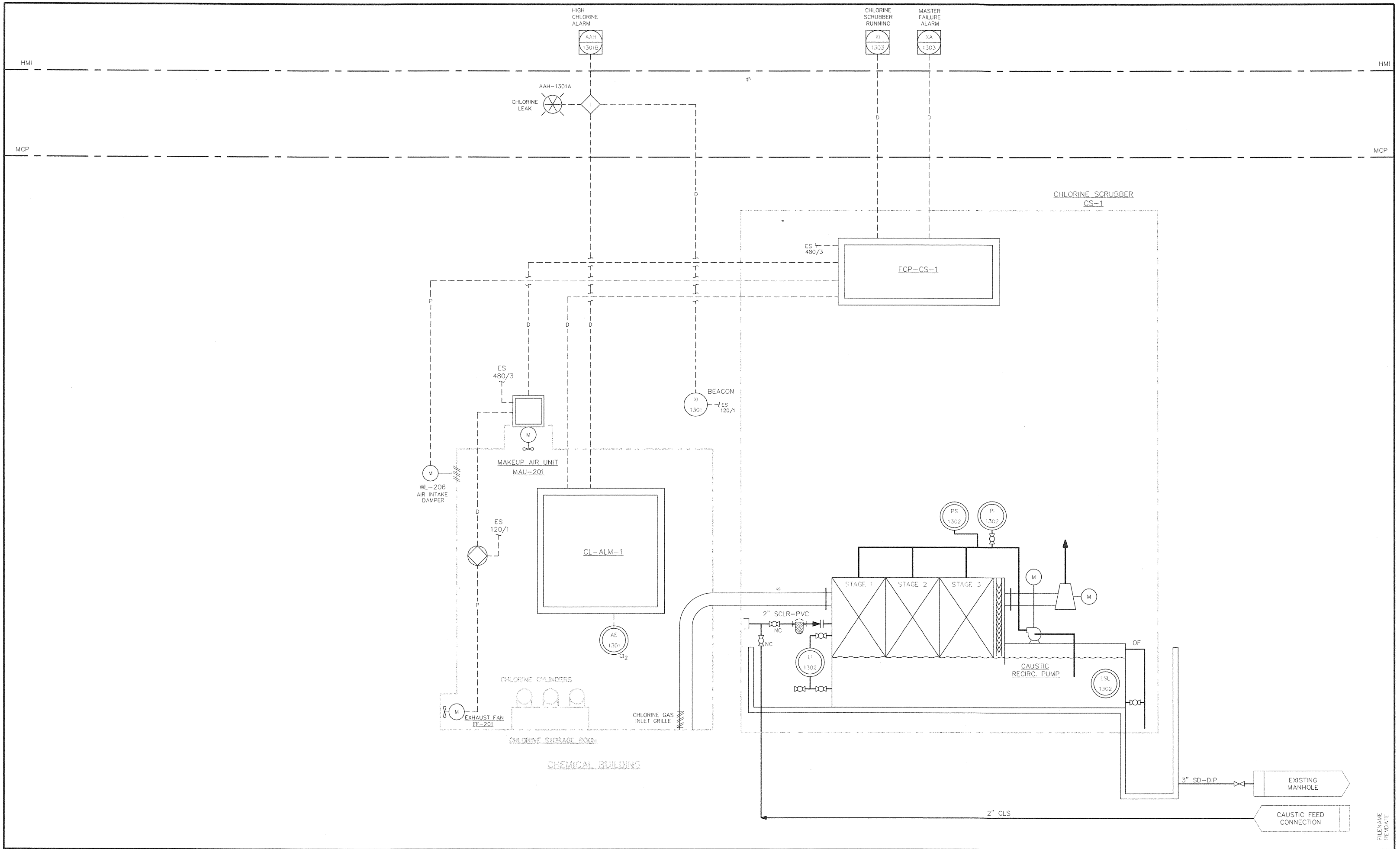


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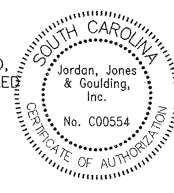


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS PROCESS & INSTRUMENTATION DIAGRAM AMMONIA FEED SYSTEMS | | | |
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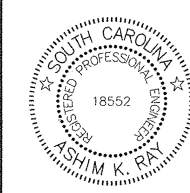
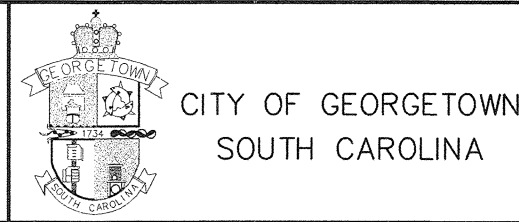
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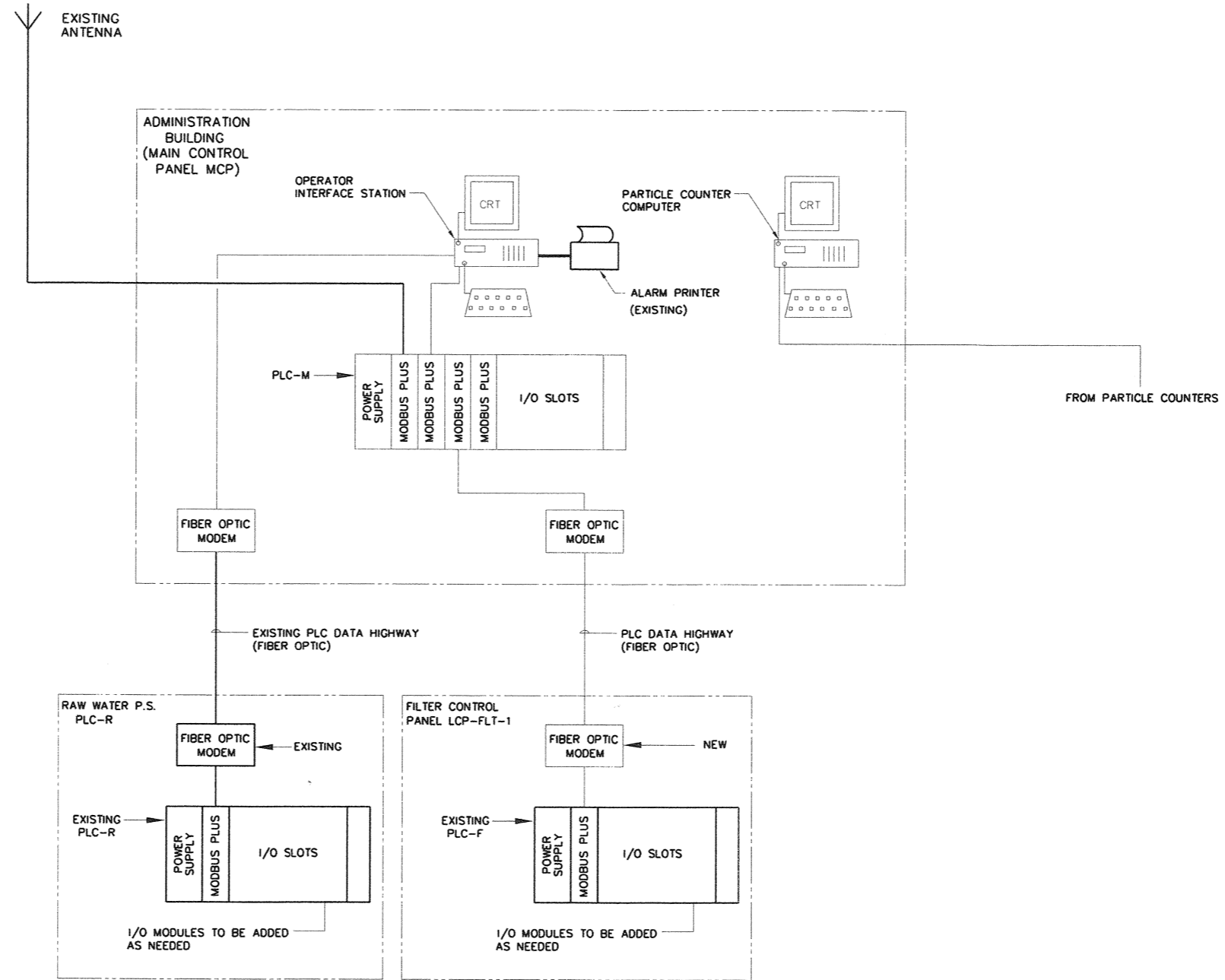


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| PROCESS & INSTRUMENTATION DIAGRAM CHLORINE SCRUBBER | | | |
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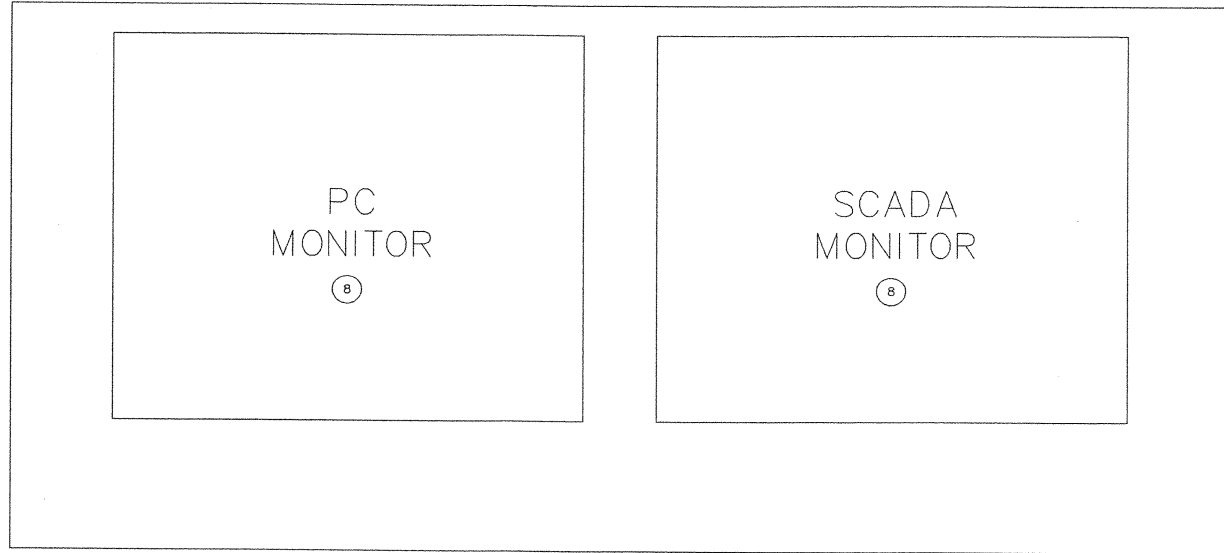


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 WATER TREATMENT PLANT IMPROVEMENTS
 PLS SYSTEM CONFIGURATION

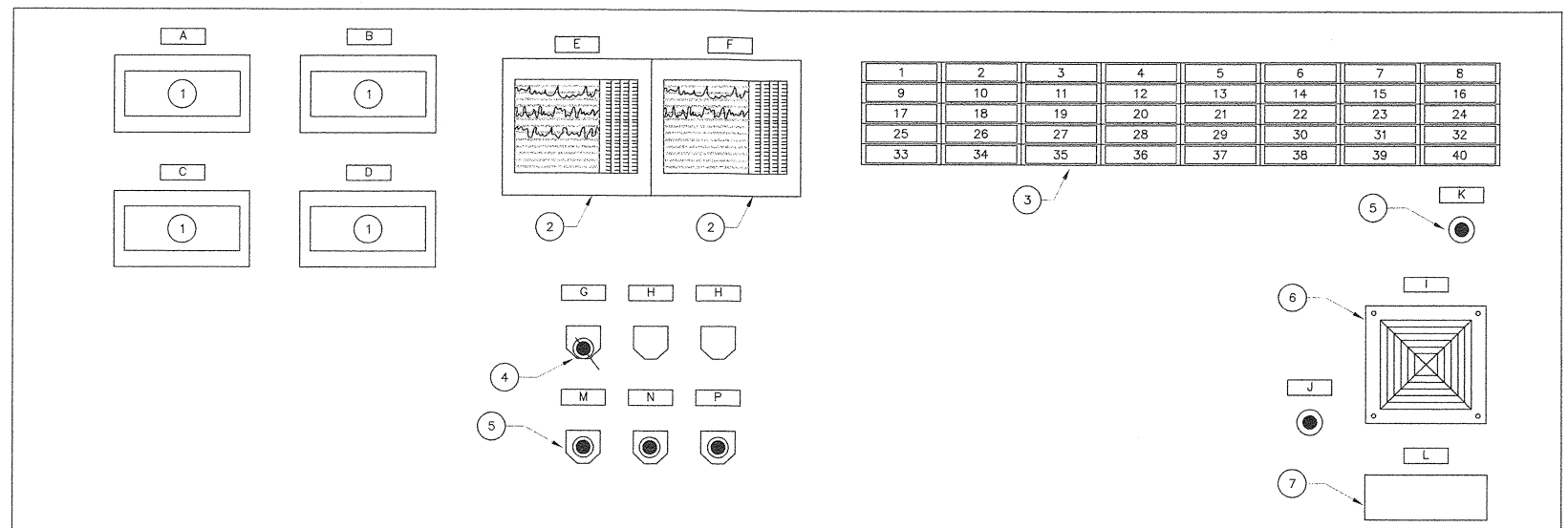
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CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS

PANEL "A"

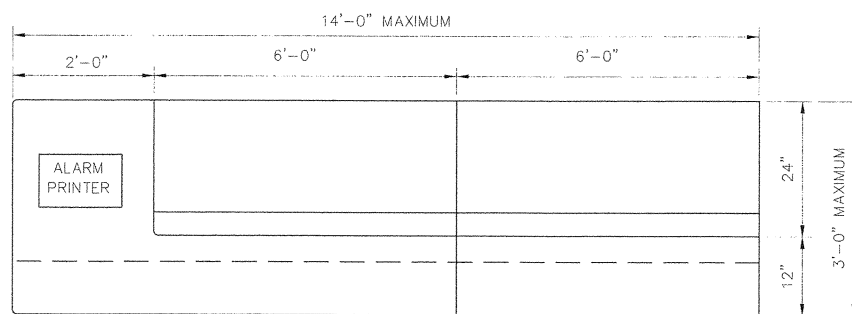


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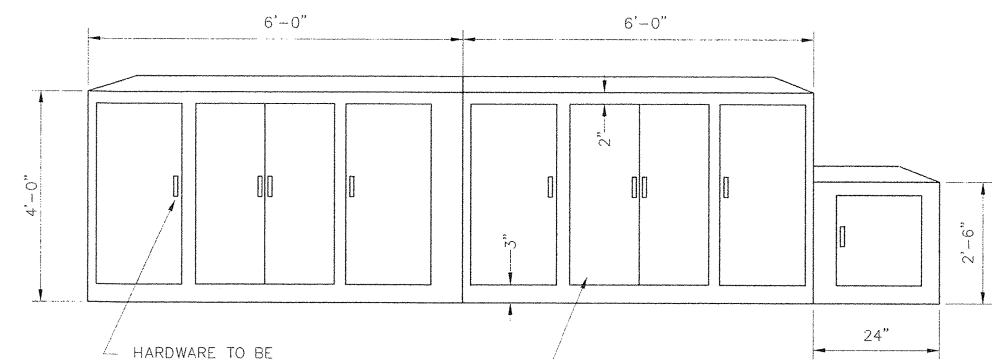


BILL OF MATERIALS

| ITEM | QTY. | DESCRIPTION | SPECIFICATION SECTION/ MODEL NO. |
|------|--------|---|---|
| 1 | 4 | INDICATOR | 17300 |
| 2 | 2 | 4-CHANNEL, PAPERLESS RECORDER | 17300 |
| 3 | 1 | 40-LAMP, PANEL-MOUNTED ANNUNCIATOR PANEL BY EDWARDS | #470X,120V, PANEL-MOUNTED, 5 ROWS HIGH X 8 ROWS WIDE TYPE "A" INDICATION PLATES |
| 4 | 1 | 4-POSITION SWITCH | 17300 |
| 5 | 5 | NON-ILLUMINATED PUSBUTTONS | 17300 |
| 6 | 1 | PANEL MOUNTED, 120V, ALARM HORN BY EDWARDS | #870P-N5 |
| 7 | 1 | PANEL-MOUNTED, LED ELECTRONIC CLOCK BY RED LION | #APLCK000 |
| 8 | 2 | MCP MONITOR SCREEN | 17810 |
| 9 | AS RQD | 4 - 20 mA SIGNAL ISOLATORS | NOTE 1 |
| 10 | 1 | SURGE SUPPRESSOR | NOTE 2 |
| 11 | 1 | AUTODIALER | NOTE 3 |



CONSOLE - PLAN VIEW
NOT TO SCALE



REAR CONSOLE ACCESS DOORS
NOT TO SCALE

ANNUNCIATOR SCHEDULE

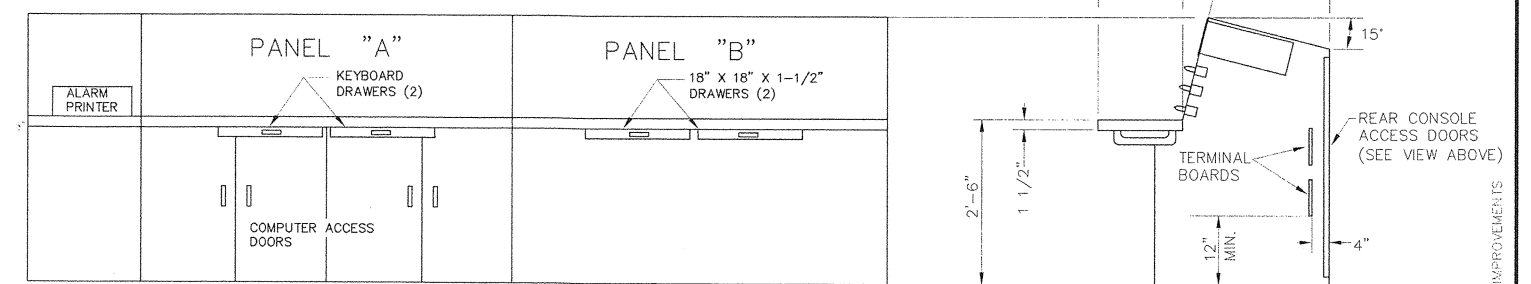
- 1 FAULT - POTASSIUM PERMANGANATE PUMP NO.1
- 2 FAULT - POTASSIUM PERMANGANATE PUMP NO.2
- 3 LOW LEVEL - POTASSIUM PERMANGANATE SOLUTION TANK
- 4 FAULT - POTASSIUM PERMANGANATE SYSTEM
- 5 HIGH ORP - RAW WATER
- 6 FAULT - SEDIMENTATION TANK MIXER
- 7 LOW LEVEL - GRAVITY FILTER NO.1
- 8 LOW LEVEL - GRAVITY FILTER NO.2
- 9 LOW LEVEL - GRAVITY FILTER NO.3
- 10 LOW LEVEL - GRAVITY FILTER NO.4
- 11 FAULT - GRAVITY FILTER BLOWER
- 12 LOW PRESSURE - FILTERS AIR
- 13 HIGH LEVEL - CLEARWELL
- 14 LOW LEVEL - CLEARWELL
- 15 HIGH LEVEL - FERRIC CHLORIDE DAY TANK
- 16 LOW LEVEL - FERRIC CHLORIDE DAY TANK
- 17 HIGH LEVEL - CAUSTIC DAY TANK
- 18 LOW LEVEL - CAUSTIC DAY TANK
- 19 FAULT - CHEMICAL BUILDING
- 20 FAULT - POLYMER SYSTEM
- 21 LOW LEVEL - POLYMER/FLOCCULANT AID AGING TANK
- 22 LOW LEVEL - FLUORIDE SOLUTION TANK
- 23 FAULT - FLUORIDE SYSTEM
- 24 LOW LEVEL - PHOSPHATE TANK
- 25 FAIL - CHLORINE VACUUM FAIL NO.1
- 26 FAIL - CHLORINE VACUUM FAIL NO.2
- 27 FAIL - CHLORINE VACUUM FAIL NO.3
- 28 HIGH PRESSURE - AMMONIA TANK
- 29 LOW PRESSURE - AMMONIA TANK
- 30 FAIL - AMMONIA VACUUM FAIL NO.1
- 31 FAIL - AMMONIA VACUUM FAIL NO.2
- 32 LEAK - AMMONIA

MAIN CONTROL CONSOLE SCHEDULE

- A INDICATOR - RAW WATER TURBIDITY
- B INDICATOR - STREAMING CURRENT
- C INDICATOR - SETTLED WATER TURBIDITY
- D INDICATOR - CLEARWELL - LEVEL
- E RECORDER - CHANNEL 1 - RAW WATER FLOW
CHANNEL 2 - FILTERED WATER FLOW TO CLEARWELL
CHANNEL 3 - FILTERED WATER TURBIDITY
CHANNEL 4 - SPARE
- F RECORDER - CHANNEL 1 - FILTERED WATER FLOW TO DISTRIBUTION
CHANNEL 2 - RESIDUAL CHLORINE
CHANNEL 3 - SPARE
CHANNEL 4 - SPARE
- G SWITCH - OPEN/CLOSE/AUTO/OFF FOR SLUDGE BLOWDOWN VALVE
- H SWITCH - SPARE
- I HORN
- J PUSHBUTTON - ALARM ACKNOWLEDGE
- K PUSHBUTTON - ANNUNCIATOR PANEL TEST
- L ELECTRONIC CLOCK
- M PUSHBUTTON - DELIVERY GATE TO OPEN
- N PUSHBUTTON - DELIVERY GATE TO CLOSE
- P PUSHBUTTON - DELIVERY GATE TO STOP

NOTES:

1. PROVIDE 4 - 20 mA SIGNAL ISOLATORS FOR ALL INCOMING AND OUTGOING mA SIGNALS. THE ISOLATORS SHALL BE FIELD CONFIGURABLE, ACTION INSTRUMENTS MODEL G408-0000 OR APPROVED EQUAL.
2. PROVIDE 120V, 1PH SURGE ARRESTER FOR THE PANEL INCOMING POWER. THE ARRESTER SHALL BE SQUARE "D" MODEL QO2175SB OR APPROVED EQUAL.
3. PROVIDE AUTODIALER INSIDE THE PANEL. THE AUTODIALER SHALL BE AS SPECIFIED IN SECTION 17300.
4. MODICON PLC-M SHALL BE MOUNTED INSIDE THE PANEL.



CONSOLE - FRONT VIEW
NOT TO SCALE

CONSOLE - SIDE VIEW
NOT TO SCALE

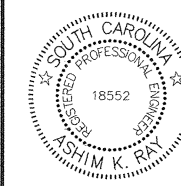
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WATER TREATMENT PLANT IMPROVEMENTS

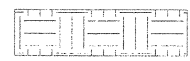
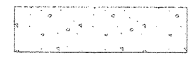
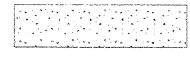
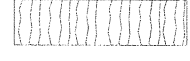
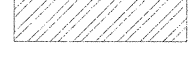

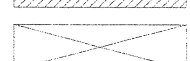



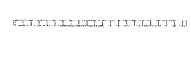

MAIN CONTROL PANEL (MCP) CONTROL CONSOLE

| | | | | |
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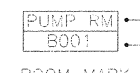





MATERIAL INDICATIONS

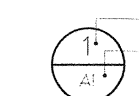
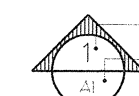
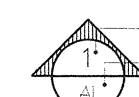
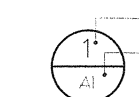
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| | |
|---|------------------------------------|
|  | EARTH |
|  | CONCRETE |
|  | GROUT |
|  | CONCRETE MASONRY UNITS (IN DETAIL) |
|  | METAL |
|  | METAL |
|  | PLYWOOD |
|  | WOOD ROUGH |
|  | BATT INSULATION |
|  | RIGID INSULATION |
|  | GLASS |
|  | ACOUSTICAL TILE |

DRAWING SYMBOLS

NOTE: ALL DRAWING SYMBOLS MAY NOT NECESSARILY APPEAR WITHIN THIS SET OF DRAWINGS.

| | |
|---|---|
|  | ROOM NAME ROOM NUMBER SEE FINISH SCHEDULE |
|  | DOOR NUMBER SEE DOOR SCHEDULE |
|  | MILLWORK |
|  | LABORATORY EQUIPMENT |
|  | STOREFRONT |
|  | HANDRAIL OR GUARDRAIL |

| | |
|---|---|
|  | DETAIL LETTER DENOTES DRAWING ON WHICH DETAIL IS SHOWN |
|  | ELEVATION LETTER DENOTES DRAWING ON WHICH ELEVATION IS DRAWN |
|  | SECTION NUMBER DENOTES DRAWING ON WHICH SECTION IS SHOWN |
|  | DETAIL LETTER OR SECTION NUMBER DRAWING ON WHICH DETAIL OR SECTION IS DRAWN |

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS ARE GENERAL AND MAY NOT APPEAR WITHIN THIS SET OF DRAWINGS.

| | | | | | | | | | | | | | |
|--------|--------------------|----------|----------------------------|---------|---------------------------|----------|--|----------|-----------------------------------|-------|------------------------|------|------------------------|
| < | ANGLE | BBD | BULLETIN BOARD | DWR | DRAWER | FBO | FURNISHED BY OTHERS | MAT | MATERIAL (S) | RDC | ROOF DRAIN CONDUCTOR | UNO | UNLESS NOTED OTHERWISE |
| @ | CENTERLINE | CAB | CABINET | DWG | DRAWING | FUR | FURRED (ING) | MAX | MAXIMUM | PFG | ROOFING | UNF | UNFINISHED |
| C | CHANNEL | CPT | CARPET (ED) | DF | DRINKING FOUNTAIN | GA | GAGE, GAUGE | MFCH | MFCHEMICAL (AL) | RM | ROOM | UR | URINAL |
| d | PENNY | CIP | CAST IN PLACE | DW | DUMBWAITER | GALV | GALVANIZED | MED | MEDIUM | RO | ROUGH OPENING | VPB | VAPOR BARRIER |
| L | PERPENDICULAR | CK | CAULK (ING) CAULK (ING) | EXF | EXHAUST FAN | GB | GRAB BAR | MFL | MAXIMUM FORTSHEARABLE LOSS (WALL) | SFGL | SAFETY GLASS | VERI | VERTICAL |
| P | PLATE | CLG | CEILING | ELEC | ELECTRIC (AL) | GC | GENERAL CONTRACTOR | MTL | METAL | SCH | SCHEDULE | VIN | VINYL |
| Ø | DIAMETER | CT | CERAMIC TILE | EWC | ELECTRIC WATER COOLER | GLA | GLASS, GLAZING | MIN | MINIMUM | SNT | SEALANT | VCI | VINYL COMPOSITION TILE |
| ABV | ABOVE | CHBD | CHALKBOARD | EL | ELEVATION | GLAM | GLUE LAMINATED WOOD BEAM | MIR | MIRROR | STG | SEATING | VB | VINYL BASE |
| AFF | ABOVE FINISH FLOOR | CIRC | CIRCUMFERENCE | ELEV | ELEVATOR | GVL | GRAVEL | MISC | MISCELLANEOUS | SEC | SECTION | VT | VINYL TILL |
| ACC | ACCESS | CR | CHROMIUM (PLATED) | EMER | EMERGENCY | GWB | GYPSON WALL BOARD | MR | MISCELLANEOUS | SSK | SERVICE SINK | VWF | VINYL WALL FABRIC |
| AP | ACCESS PANEL | CO | CLEAN OUT | EQ | EQUAL | GYP. BD. | GYPSON BOARD | MOP | MOP RECEPTOR | SHTH | SHEATHING | WSCT | WAINSCOT |
| ACOUS | ACOUSTICAL | CLR | CLFAR (ANCE) | EQUIP | EQUIPMENT | HDW | HARDWARE | MULL | MULLION | SHT | SHEET | WC | WATER CLOSET |
| ACT | ACOUSTICAL TILE | CLS | CLOSURE | EST | ESTIMATE | HP | HIGH POINT | NRC | NOISE REDUCTION COEFFICIENT | SIM | SIMILAR | WPF | WATERPROOFING |
| ADD | ADDENDUM | CMU | CONCRETE MASONRY UNIT | EXH | EXHAUST | HTC | HEATING | NOM | NOMINAL | SC | SOLID CORE | WWM | WELODED WIRE MESH |
| ADH | ADHESIVE | CNR. BD. | CORNER BEAD | EXIST | EXISTING | HVAC | HEATING/VENTILATING/AIR - CONDITIONING | NIC | NOT IN CONTRACT | SPK | SPEAKER | W. | WIDTH, WIDE |
| ADJ | ADJACENT | COL | COLUMN | EB | EXPANSION BOLT | HT | HEIGHT | NTS | NOT TO SCALE | SPFC | SPECIFICATION (S) | WIN | WINDOW |
| ADJT | ADJUSTABLE | COMP | COMPRESS (ED) (ION) (IBLE) | EJ | EXPANSION JOINT | HC | HOLLOW CORE | OC | ON CENTER (S) | SQ | SQUARE | WGL | WIRED GLASS |
| A/C | AIR CONDITIONING | CONC | CONCRETE | EXPD | EXPOSED | HIM | HOLLOW METAL | OFD | OVERFLOW DRAIN | SSI | STAINLESS STEEL | WMP | WIRE MESH PARTITION |
| ALT | ALTERNATE | CONN | CONNECTION | EXT | EXTERIOR | HK | HOOK (S) | OPNG | OPENING | STD | STANDARD | W/ | WITH |
| AL | ALUMINUM | CONST | CONSTRUCTION | F/CONC | FACE OF CONCRETE | HM | HORIZONTAL | OPP | OPPOSITE | STA | STATION | W/O | WITHOUT |
| ALUM | ALUMINUM | CONT | CONTINUOUS OR CONTINUE | F/FIN | FACE OF FINISH | HORIZ | HORIZONTAL | OD | OUTSIDE DIAMETER | STL | STEEL | WD | WOOD |
| ANC | ANCHOR, ANCHORAGE | CONTR | CONTRACT (OR) | F/MAS | FACE OF MASONRY | HB | HOSE BIBB | OA | OVERALL | STO | STORAGE | WB | WOOD BASE |
| AB | ANCHOR BOLT | CJ | CONTROL JOINT | F/STUDS | FACE OF STUDS | HWH | HOT WATER HEATER | OHD | OVERHEAD | SFRT | STOREFRONT | WPT | WORKING POINT |
| ANOD | ANODIZED | CG | CORNER GUARD | FFH | FACTORY FINISH | INCL | INCLUDE (D) (ING) | PNT | PAINT (ED) | SD | STORM DRAIN | | |
| APPROX | APPROXIMATE | CORR | CORRUGATED | FAS | FAS | ID | INSIDE DIAMETER | PNB | PANIC BAR | STRUC | STRUCTURAL | | |
| ARCH | ARCHITECT (URAL) | CTR | COUNTER | FGL | FIBERGLASS | INSUL | INSULATE (D) (ION) | PTD | PAPER TOWEL DISPENSER | SUSP | SUSPENDED | | |
| ASPH | ASPHALT | CFL | COUNTERFLASHING | FIN | FINISH (ED) | INT | INTERIOR | PTR | PAPER TOWEL RECEPTOR | SWP | STANDARD WEIGHT PIPE | | |
| BACC | BATH ACCESSORY | CSC. BD. | CASING BEAD | FFL | FINISHED FLOOR LINE | INV | INVERT | PTN | PARTITION | SYM | SYMMETRY (ICAL) | | |
| BSM1 | BASMENT | CISK | COUNTERSINK | FE | FIRE EXTINGUISHER | JC | JANITOR'S CLOSET | PLAM | PLASTIC LAMINATE | TKBD | TACKBOARD | | |
| BM | BEAM | DPR | DAMPLER | FEC | FIRE EXTINGUISHER CABINET | JT | JOINT | PL | PLATE | TKS | TACKSTRIP | | |
| BRG | BEARING | DP | DAMPPOOFING | FHS | FIRE HOSE STATION | KCPL | KLENE'S CEMENT PLASTER | PLY. WD. | PLYWOOD | TFI | TELEPHONE | | |
| BRG PL | BEARING PLATE | DL | DEAD LOAD | FHC | FIRE HOSE CABINET | KPL | KICKPLATE | PWD | PLYWOOD | TV | TELEVISION | | |
| BEL | BELOW | DTM | DEMOLISH, DEMOLITION | FPR | FIREPROOF | KIT | KITCHEN | PT | PRESSURE TREATED | TERR | TERRAZZO | | |
| BET | BETWEEN | DMT | DEMOUNTABLE | FLSH | FLASHING | KO | KNOCKOUT | PFB | PREFABRICATE (D) | THK | THICK (NESS) | | |
| BEV | BEVELED | DFPR | DEPRESSED | FLSG | FLASHING | LAB | LABORATORY | PFN | PREFINISHED | THRES | THRESHOLD | | |
| BIT | BITUMINOUS | DET | DETAIL | FHMS | FLATHEAD MACHINE SCREW | LAM | LAMINATE (D) | PM | PRESSED METAL | TPTN | TOILET PARTITION | | |
| BLK | BLOCK | DIAG | DIAGONAL | FHWS | FLATHEAD WOOD SCREW | LAV | LAVATORY | QT | QUARRY TILE | TPD | TOILET PAPER DISPENSER | | |
| BLKG | BLOCKING | DIA | DIAMETER | FLX | FLEXIBLE | L | LENGTH | RAD | RADIUS | TOL | TOLERANCE | | |
| BD | BOARD | DIM | DIMENSION | FL | FLOOR (ING) | LT | LIGHT | REF | REFERENCE | T&G | TONGUE AND GROOVE | | |
| BS | BOTH SIDES | DIV | DIVISION | FD | FLOOR DRAIN | LL | LIVE LOAD | REFL | REFLECT (ED) (VE) (OR) | T/SLB | TOP OF SLAB | | |
| BW | BOTH WAYS | DR | DOOR | FLUR | FLOURESCENT | LVR | LOUVER | RS | RESILIENT BASE | T/STL | TOP OF STEEL | | |
| BOT | BOTTOM | DA | DOUBLE ACTING | FTC | FOOTING | LP | LOW POINT | RA | RETURN AIR | 1/W | TOP OF WALL | | |
| BRK | BRICK | DS | DOWNSPOUT | FDN | FOUNDATION | MFR | MANUFACTURE (ER) | REV | REVISION (S) REVISED | TLB | TOWEL BAR | | |
| BLDG | BUILDING | D | DRAIN | FR | FRAME (D) (ING) | MAS | MASONRY | R | RISER | T | TREAD | | |
| BUR | BUILT UP ROOFING | DT | DRAIN TILE | FSZ | FULL SIZE | MO | MASONRY OPENING | RD | ROOF DRAIN | TYP | TYPICAL | | |

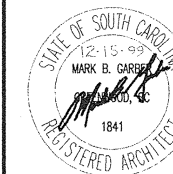
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| 0 | 12-15-99 | INITIAL ISSUE |



CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

COVER SHEET

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | AO.1 | 1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

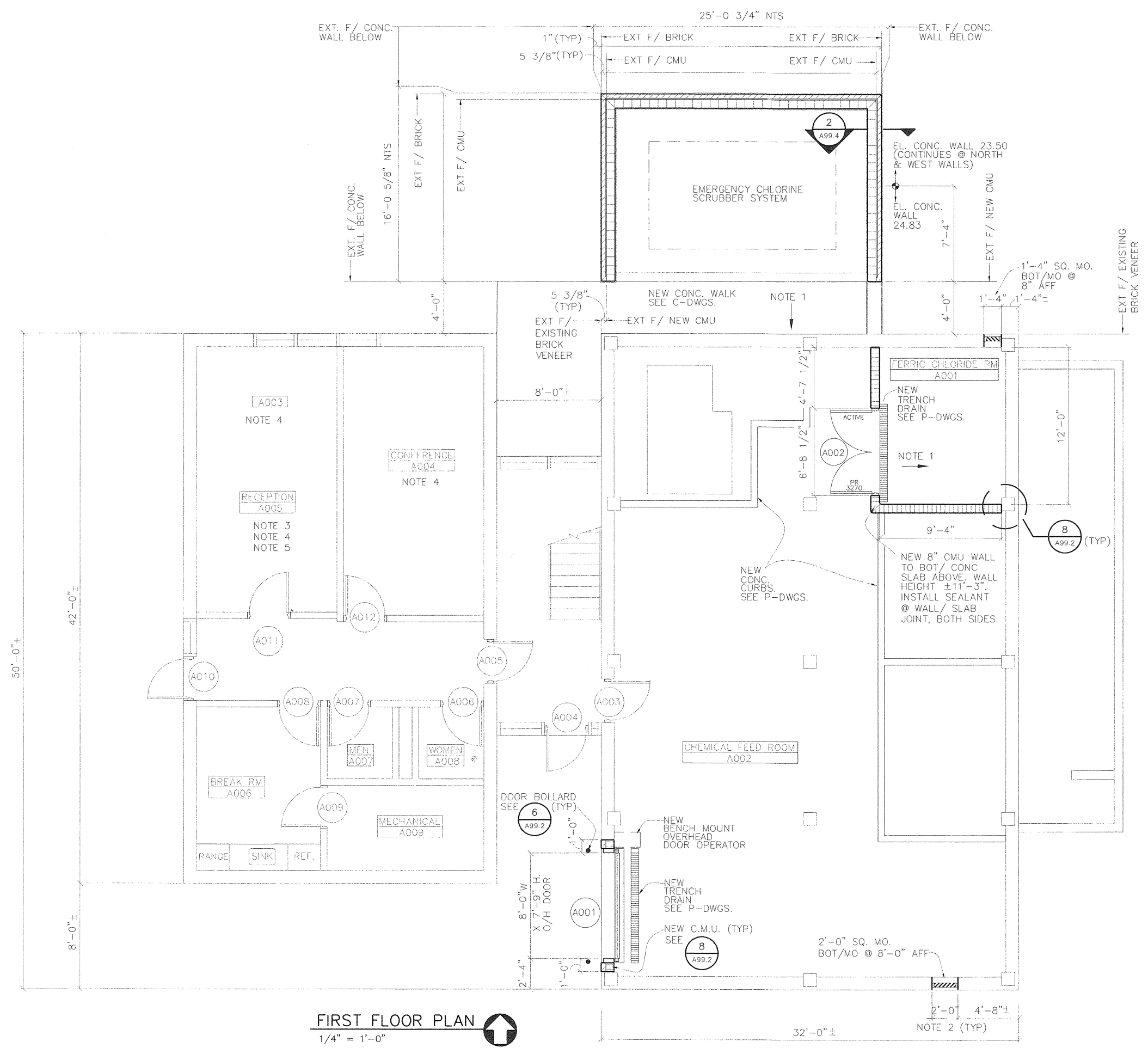
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12.15.99

NOTES:

- MASONRY OPENING FOR HVAC - SEE M-DWGS.
- LOCATE NEW LOUVERS IN EXISTING MASONRY WALLS TO NEAREST VERTICAL MASONRY JOINT (TYPICAL).
SEE **5** A99.2 FOR LOUVER DETAILS
- REMOVE CARPET AND CARPET GLUE IN THEIR ENTIRETY. NEW FLOOR COVERING IS NOT IN THE CONTRACT AND IS TO BE INSTALLED AT A LATER DATE BY THE OWNER.
- REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING IN ITS ENTIRETY AND INSTALL NEW SUSPENDED CEILING AT COMPLETION OF PLUMBING WORK FOR NEW LAB. LAYOUT OF NEW CEILING TO MATCH LAYOUT OF EXISTING CEILING.
- COORDINATE WITH OWNER AND RELOCATE SOME EXISTING LAB CASEWORK AND ACCESSORIES INTO THIS AREA FOR USE AS A TEMPORARY LAB DURING CONSTRUCTION OF THE NEW LAB. PROVIDE ADEQUATE TEMPORARY LIGHTING AND POWER AS REQUIRED. COORDINATE CONSTRUCTION SO AS TO MINIMIZE THE TIME REQUIRED FOR TEMPORARY LAB USE.

LEGEND:

- OFFICE ROOM NAME
- D105 ROOM NUMBER
- OFFICE EXISTING ROOM NAME
- D105 EXISTING ROOM NUMBER
- D104 NEW DOOR NUMBER
- D104 EXISTING DOOR NUMBER
- 12" CMU
- 8" CMU
- 4" BRICK
- CAST-IN-PLACE CONC.

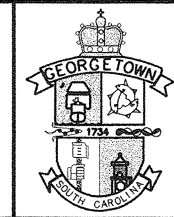


FIRST FLOOR PLAN
1/4" = 1'-0"

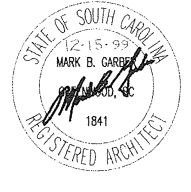
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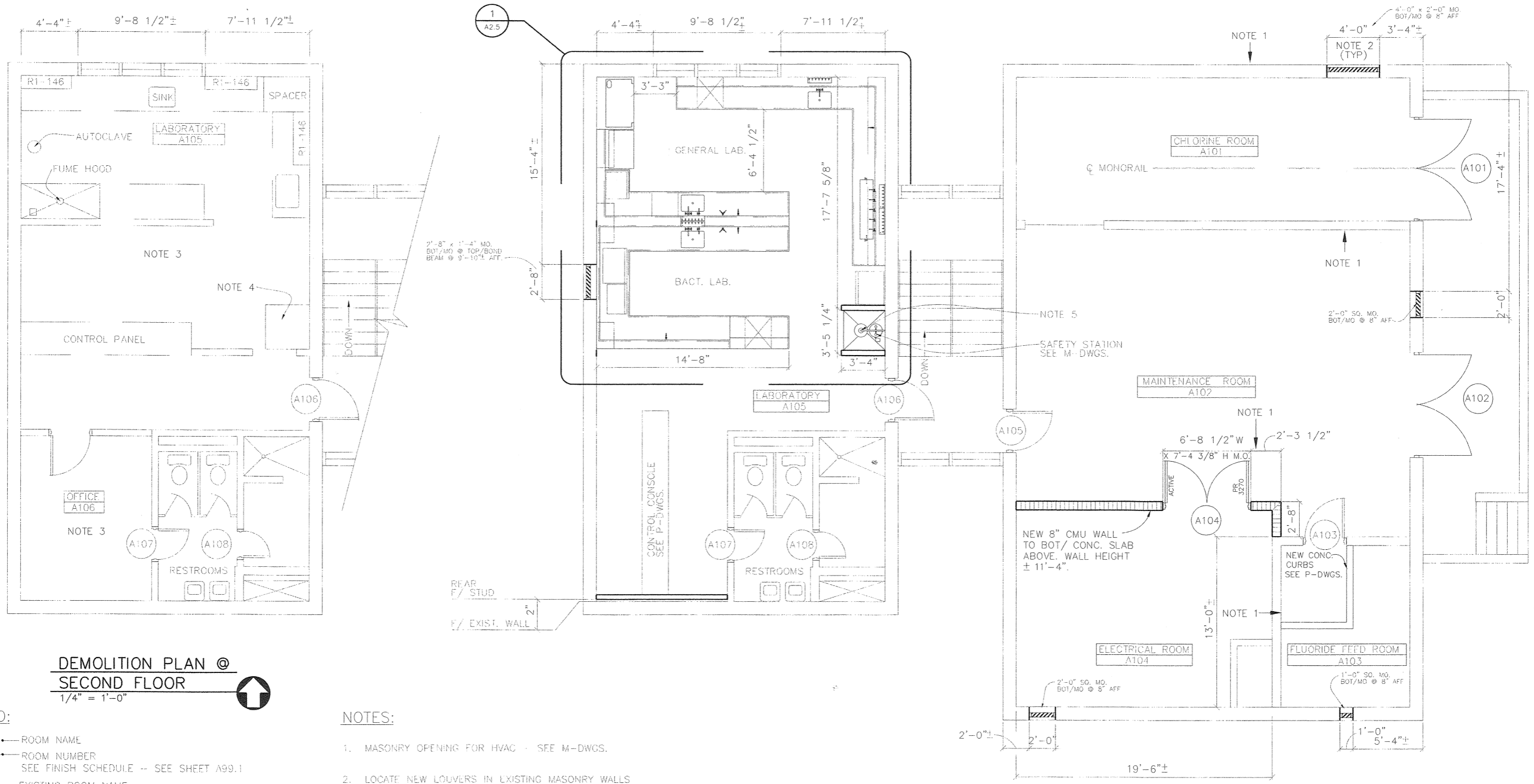
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| 0 | 12-15-99 | INITIAL ISSUE |



CITY OF GEORGETOWN
SOUTH CAROLINA



| | | | |
|---|------------------|---------------------|------|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| CHEMICAL AND ADMINISTRATION BUILDING FIRST FLOOR PLAN | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A2.1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |



**DEMOLITION PLAN @
SECOND FLOOR**
1/4" = 1'-0"

LEGEND:

- OFFICE D105 → ROOM NAME
- OFFICE A105 → ROOM NUMBER
SEE FINISH SCHEDULE -- SEE SHEET A99.1
- EXISTING ROOM NAME
- EXISTING ROOM NUMBER
- D104 → NEW DOOR NUMBER
SEE DOOR SCHEDULE - SEE SHEET A99.1
- A104 → EXISTING DOOR NUMBER
- 12" CMU
- 8" CMU
- 4" BRICK
- CAST-IN-PLACE CONC.
- NEW 9'-0" HIGH WALL BOARD PARTITION WITH 3 5/8" METAL STUDS @ 16" O.C.

NOTES:

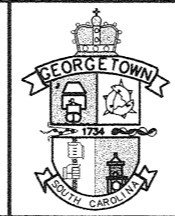
1. MASONRY OPENING FOR HVAC - SEE M-DWGS.
2. LOCATE NEW LOUVERS IN EXISTING MASONRY WALLS TO NEAREST VERTICAL MASONRY JOINT (TYPICAL).
SEE (5) A99.2 FOR LOUVER DETAILS
3. COMPLETELY REMOVE ALL DOTTED PARTITIONS AND DOORS, LABORATORY CASEWORK, FLOOR TILE, FLOOR TILE GLUE, BASE AND SUSPENDED CEILING. PATCH EXISTING WALLS AND FLOORING AS REQUIRED. SEE FINISH SCHEDULE FOR SURFACE PREPARATION.
4. REMOVE EXISTING 2 1/2" (+/-) THICK CONCRETE TOPPING @ SAFETY STATION.
5. NEW CERAMIC TILE FLOOR AND WAINSCOT @ SAFETY STATION. SEE DETAIL (1) A99.1

SECOND FLOOR PLAN
1/4" = 1'-0"

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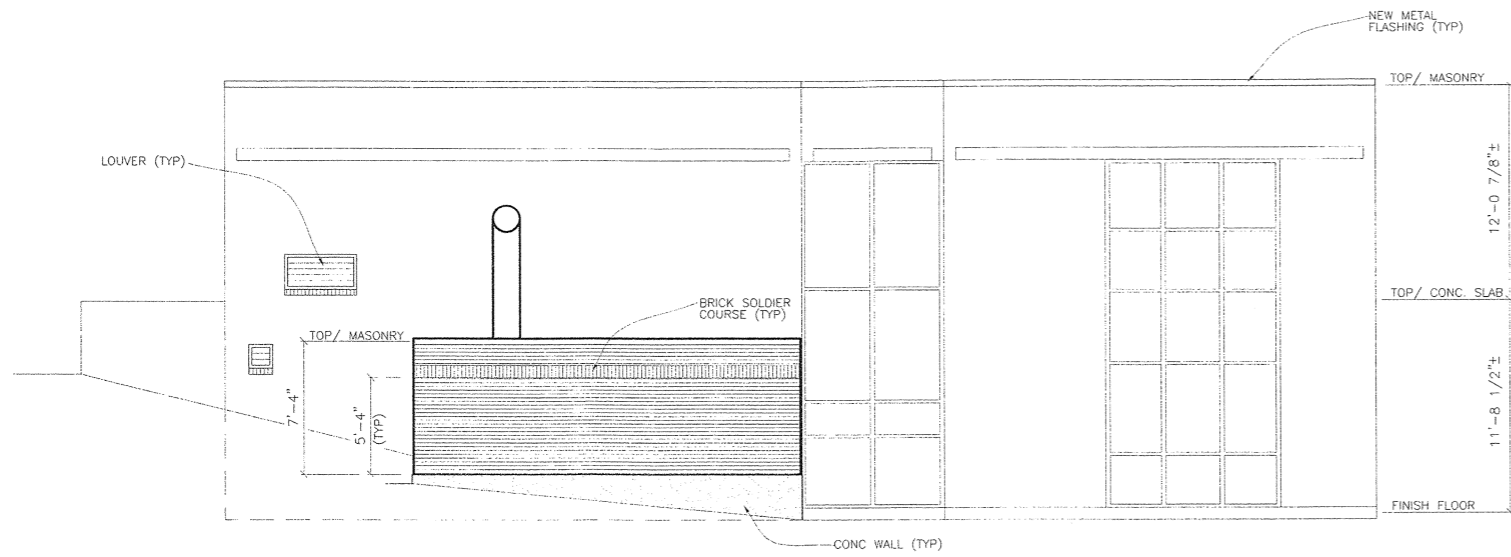


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SOUTH CAROLINA

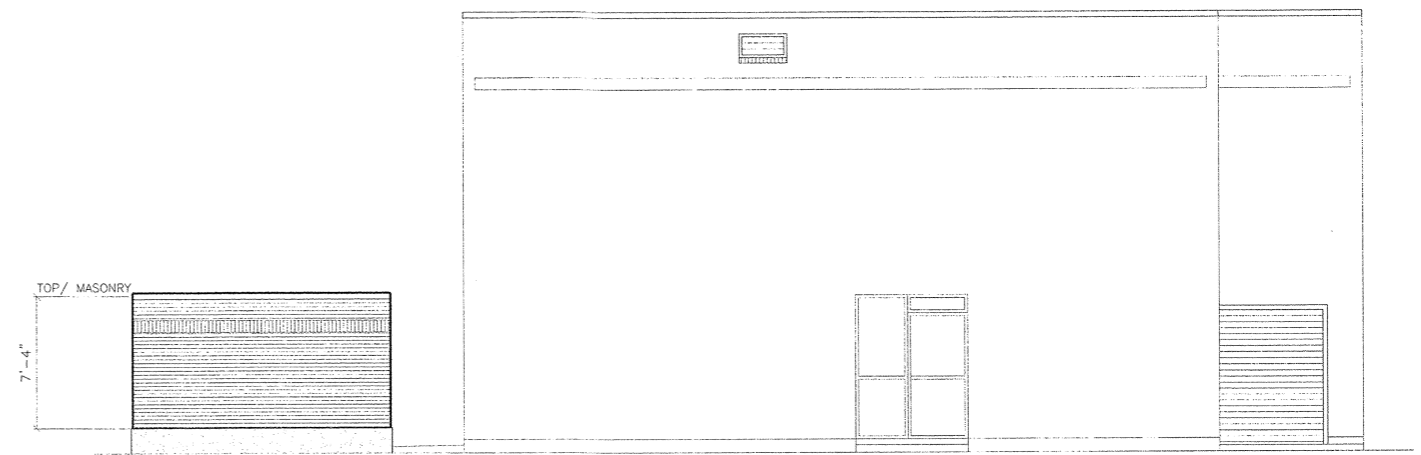


| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
|--|------------------|---------------------|------|
| CHEMICAL AND ADMINISTRATION BUILDING SECOND FLOOR PLAN | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A2.2 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

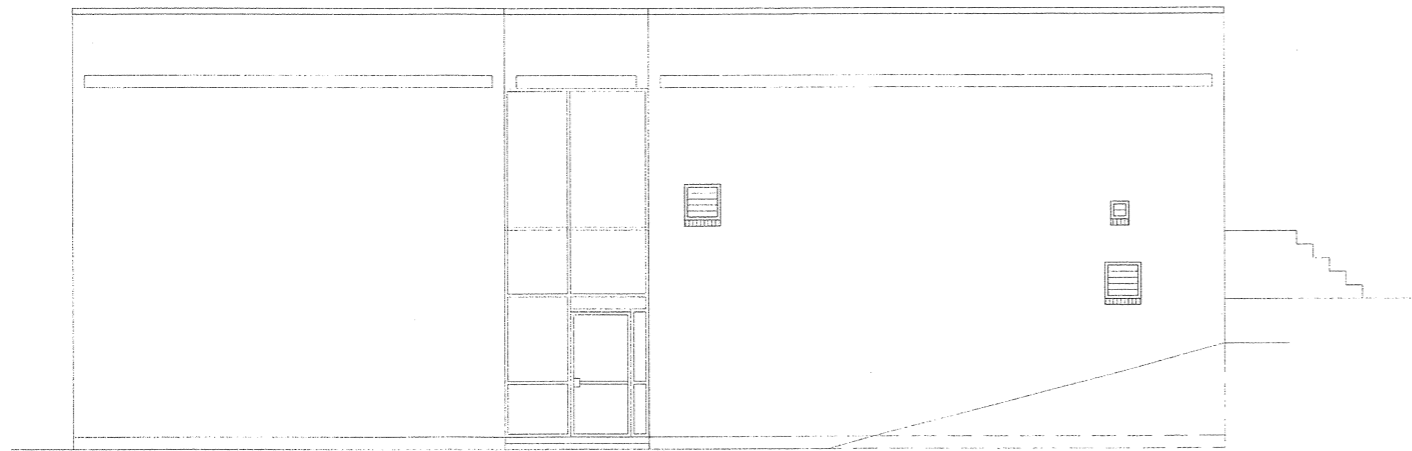
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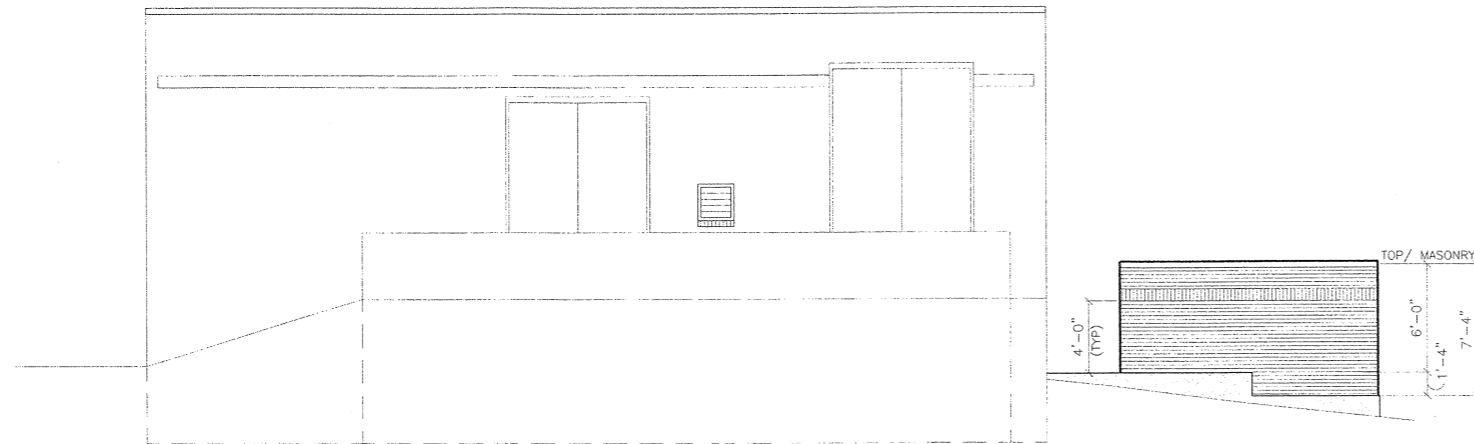
NORTH ELEVATION
3/16" = 1'-0"



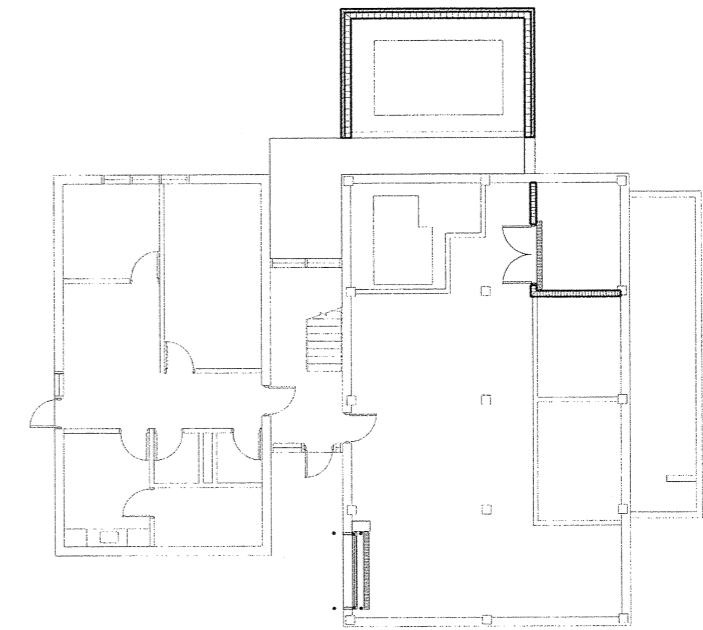
WEST ELEVATION
3/16" = 1'-0"



SOUTH ELEVATION
3/16" = 1'-0"



EAST ELEVATION
3/16" = 1'-0"



KEY PLAN
N.T.S.

NOTES:
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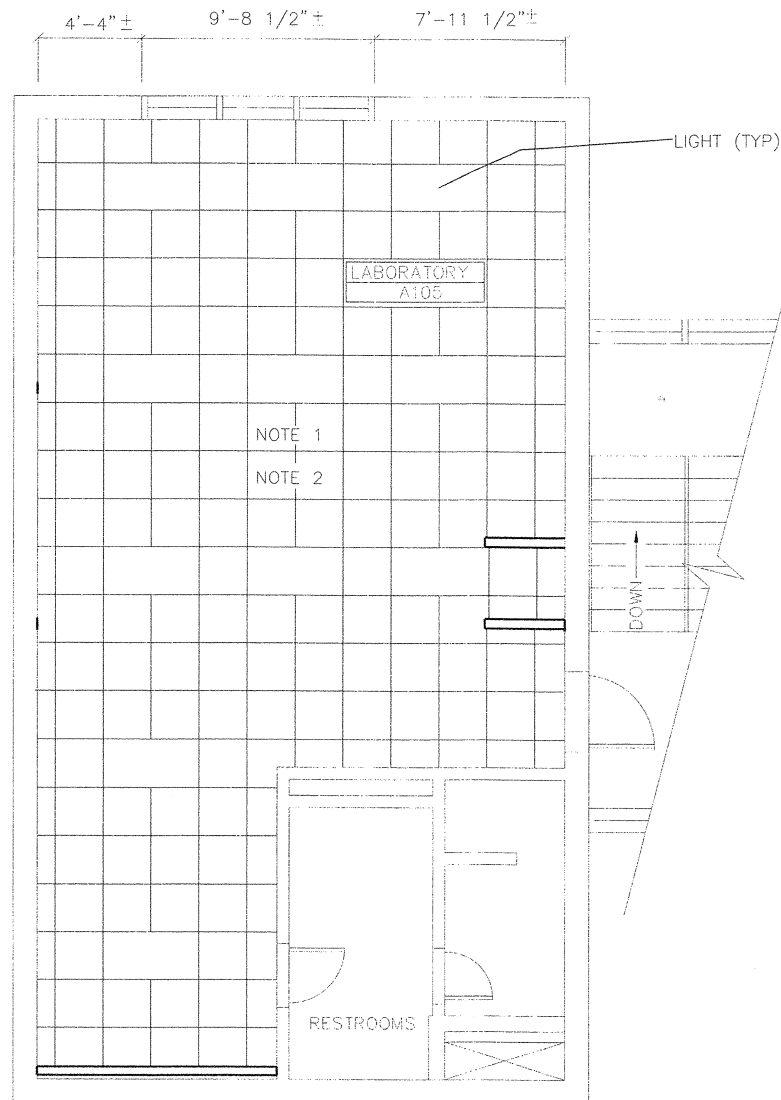
CITY OF GEORGETOWN
SOUTH CAROLINA




CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
CHEMICAL AND ADMINISTRATION
BUILDING
ELEVATIONS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A2.3 | 1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

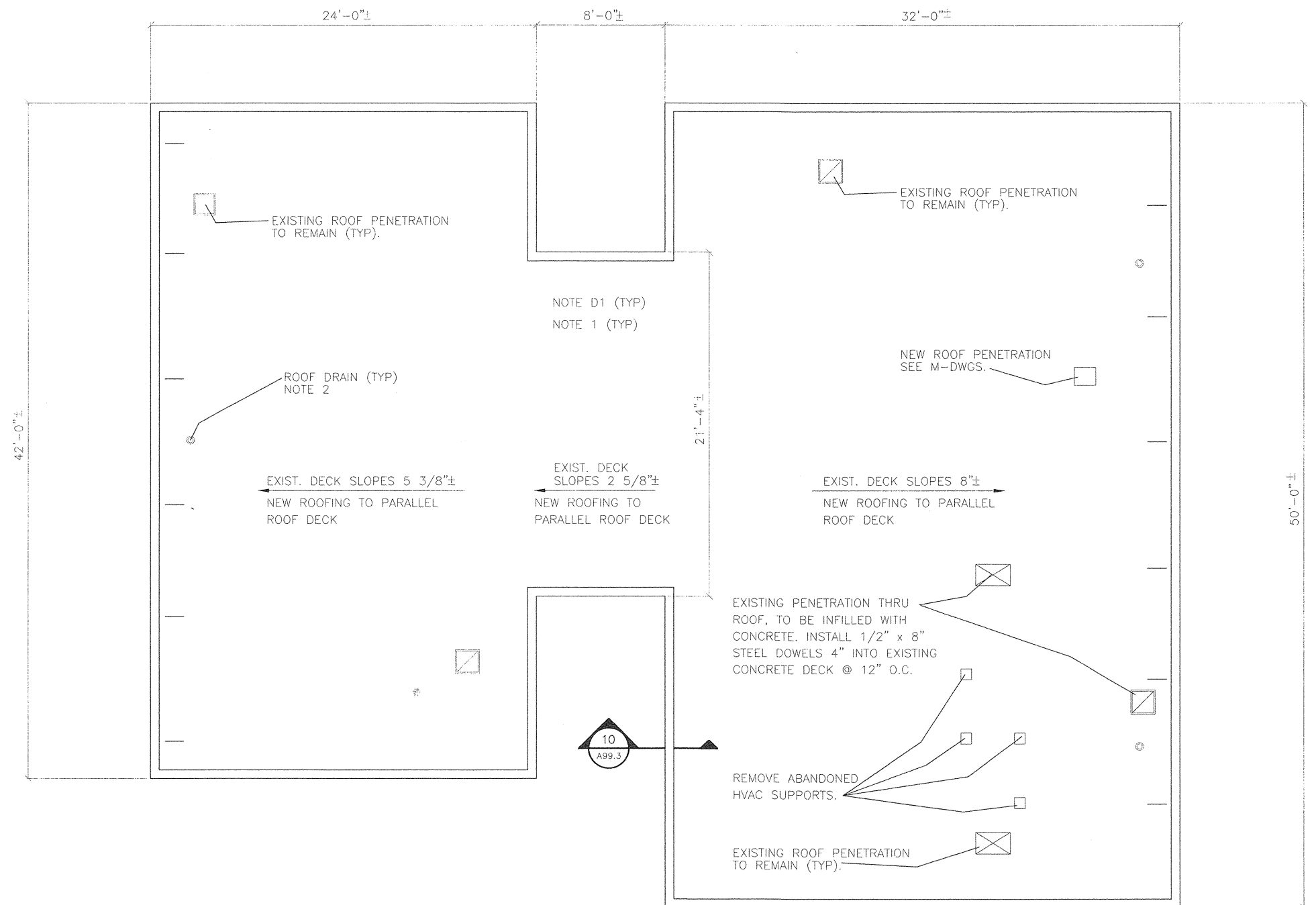
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REFLECTED CEILING PLAN
1/4" = 1'-0" 

NOTES:

1. NEW SUSPENDED ACOUSTICAL CEILING
2. EXISTING CEILING MOUNTED HVAC ITEMS TO BE REINSTALLED IN NEW SUSPENDED ACOUSTICAL CEILING. SEE M-DWGS.



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

DEMOLITION NOTES:

- D1. REMOVE ALL EXISTING ROOFING, ROOF INSULATION, ROOF EDGE FLASHING, AND WOOD BLOCKING.

NOTES:

1. INSTALL NEW WOOD BLOCKING, NEW 1 1/2" ISO ROOF INSULATION, NEW ROOFING, AND NEW ROOF EDGE FLASHING. SEE SHEET A99.3 FOR DETAILS.
2. EXISTING ROOF DRAIN TO REMAIN.
3. SEE M-DWGS FOR ALTERATION OF SIZE OF EXISTING ROOF PENETRATIONS TO REMAIN

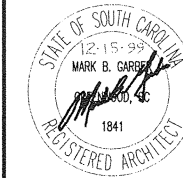
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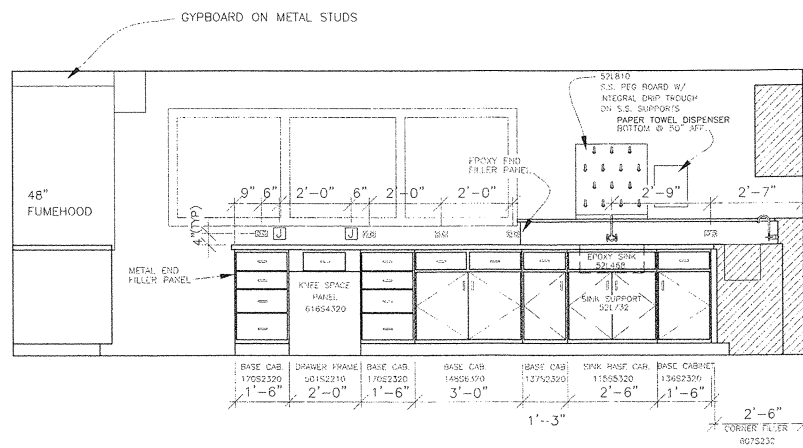
CITY OF GEORGETOWN
SOUTH CAROLINA



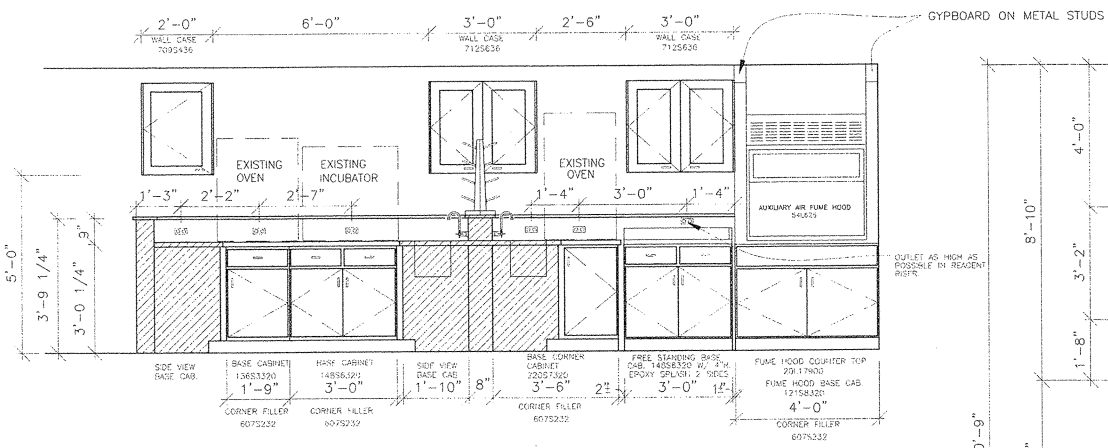
CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
CHEMICAL AND ADMINISTRATION BUILDING
ROOF PLAN AND
REFLECTED CEILING PLAN

| | | | | |
|---------------|------------------|---------------------|-------|-----|
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| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

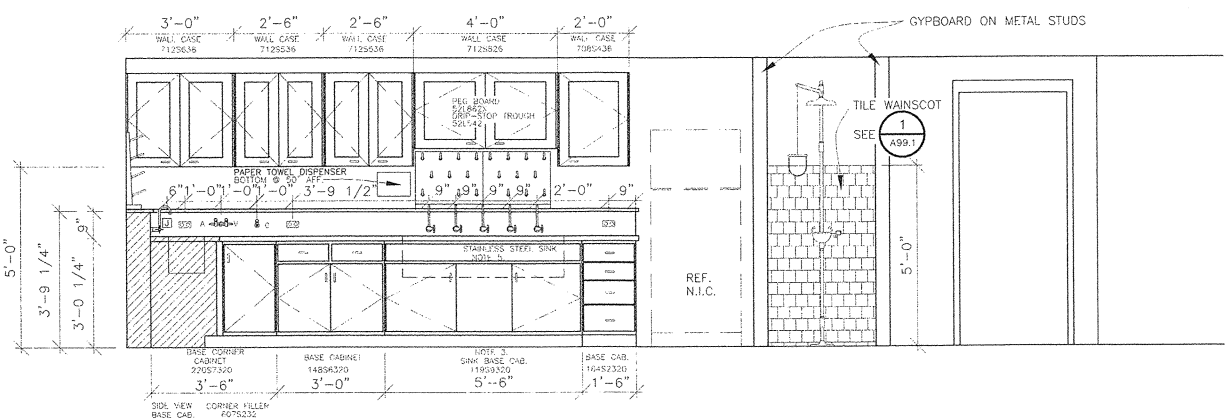
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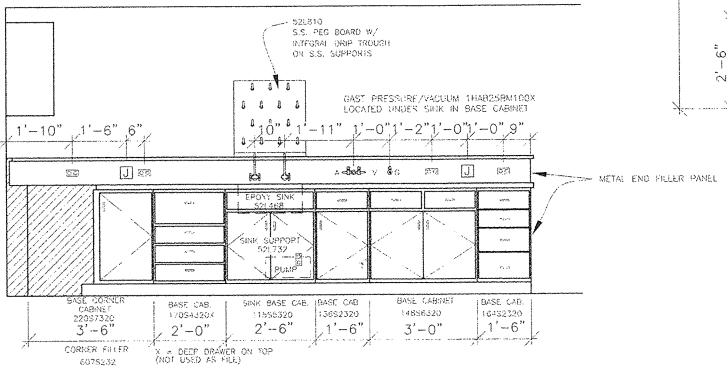
A ELEVATION A
A2.5 3/8" = 1'-0"



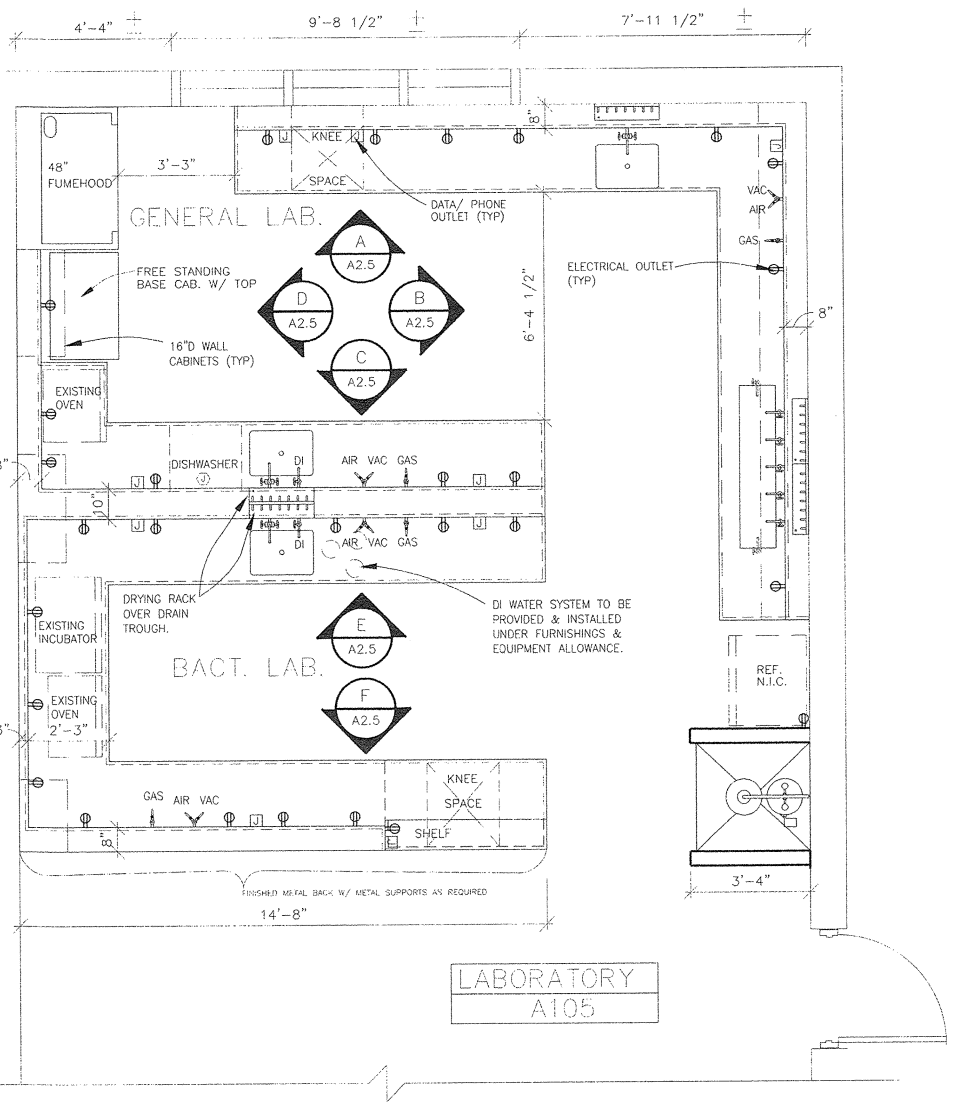
D ELEVATION D
A2.5 3/8" = 1'-0"



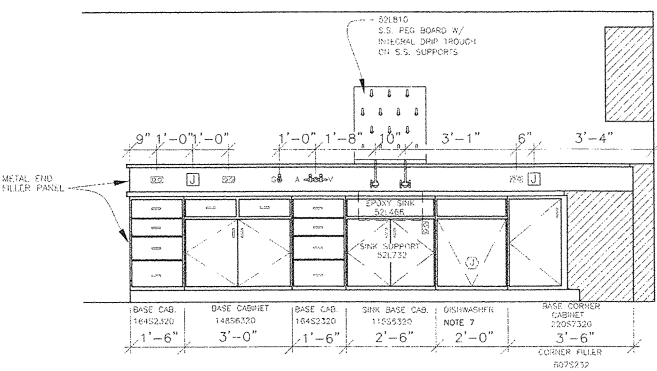
B ELEVATION B
A2.5 3/8" = 1'-0"



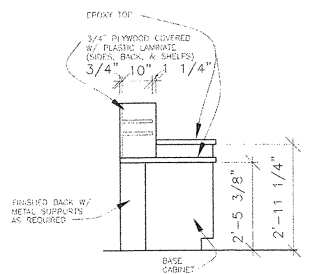
E ELEVATION E
A2.5 3/8" = 1'-0"



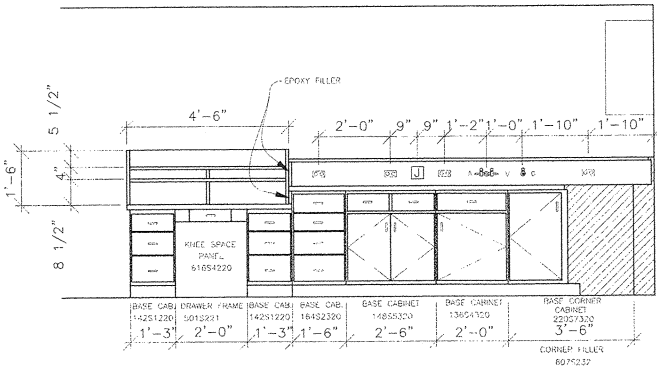
1 LAB BLOWUP
A2.5 3/8" = 1'-0"



C ELEVATION C
A2.5 3/8" = 1'-0"



F PARTIAL SIDE ELEV. F
3/8" = 1'-0"



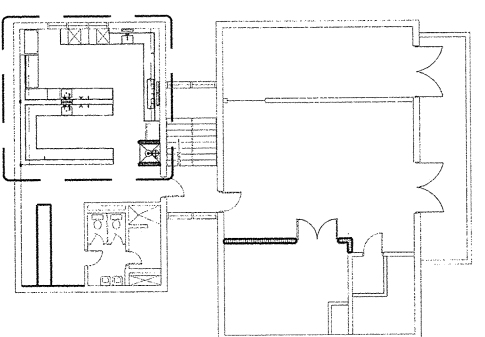
F ELEVATION F
A2.5 3/8" = 1'-0"

DETAIL NOTES:

- MIXING FAUCET - 32L418 (3 EA.) - SEE M-DWGS FOR PIPING.
- DI FAUCET - 28L14900 (2 EA.) - SEE M-DWGS FOR PIPING.
- SAMPLE FAUCET - 32L413 (5 EA.) - SEE M-DWGS FOR PIPING.
- SERVICE COCK - 30L565 (4 EA.) - SEE M-DWGS FOR PIPING.
- SERVICE COCK - 30L564 (4 EA.) - SEE M-DWGS FOR PIPING.
- 56" L x 12" W x 12" H 1/8-8 GA. TYPE 304 S.S. WITH 2 DRAIN CUTOUPS. SEE M-DWGS FOR DRAIN SIZES AND LOCATIONS. SINK SHALL SUSPEND UNDER THE COUNTER TOP WITH SINK SUPPORTS AS REQUIRED. COMPLETELY SEAL BETWEEN SINK AND COUNTER TOP.
- UNDER COUNTER DISHWASHER - G.E. MOD #: GSD43202BB - SEE M-DWGS & E-DWGS.

GENERAL NOTES:

- ALL MODEL NUMBERS REFER TO FISHER HAMILTON ITEMS, U.N.O.
- ALL COUNTER TOPS, REAGENT RISERS & SHELVES, AND BACK SPLASHES SHALL BE EPOXY RESIN, COLOR TO BE SELECTED BY ENGINEER. THIS IS APPLICABLE @ STANDING HEIGHT CASEWORK.
- LABORATORY EQUIPMENT INSTALLER SHALL INSTALL ALL FAUCETS AND SERVICE COCKS. SEE M-DWGS FOR DRAINS AND PIPING.
- LABORATORY EQUIPMENT INSTALLER SHALL CUT OUT ALL OPENINGS IN EPOXY RESIN AND PLASTIC LAMINATE FOR ELECTRICAL AND PLUMBING ITEMS. SEE E-DWGS FOR JUNCTION BOXES, DEVICES AND COVER PLATES.
- NEW BATT INSULATION @ CEILING OMITTED FOR CLARITY.



KEY PLAN
N.T.S.

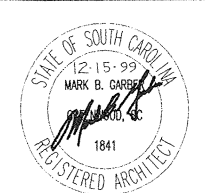
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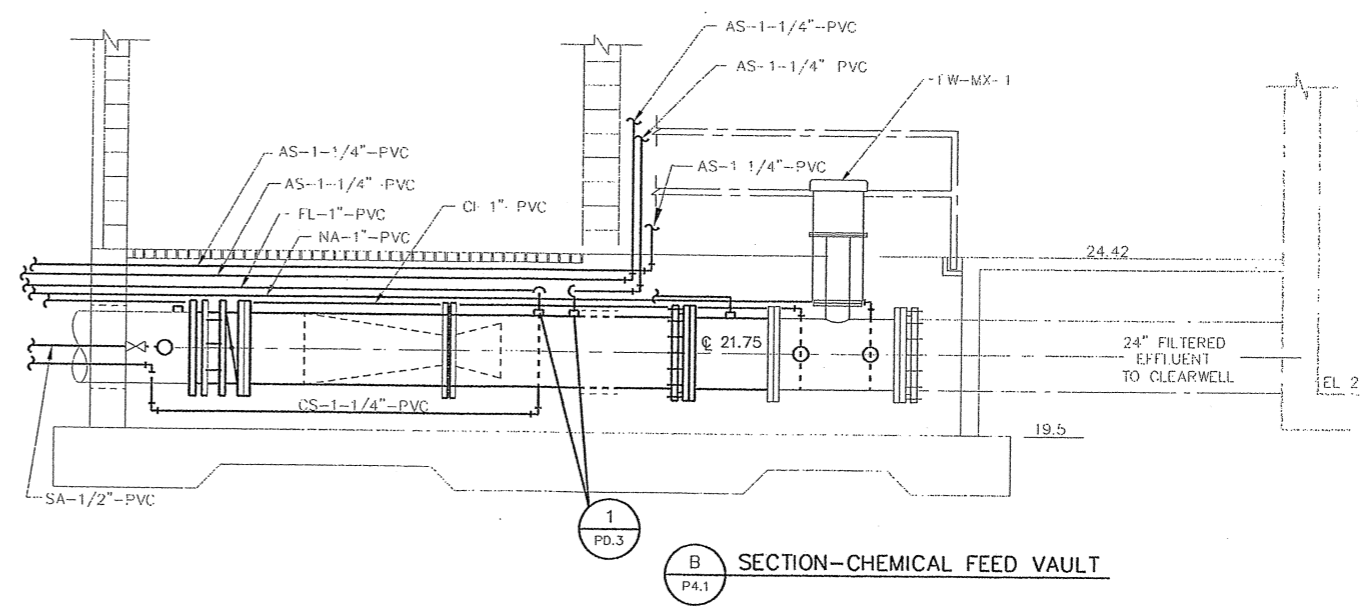
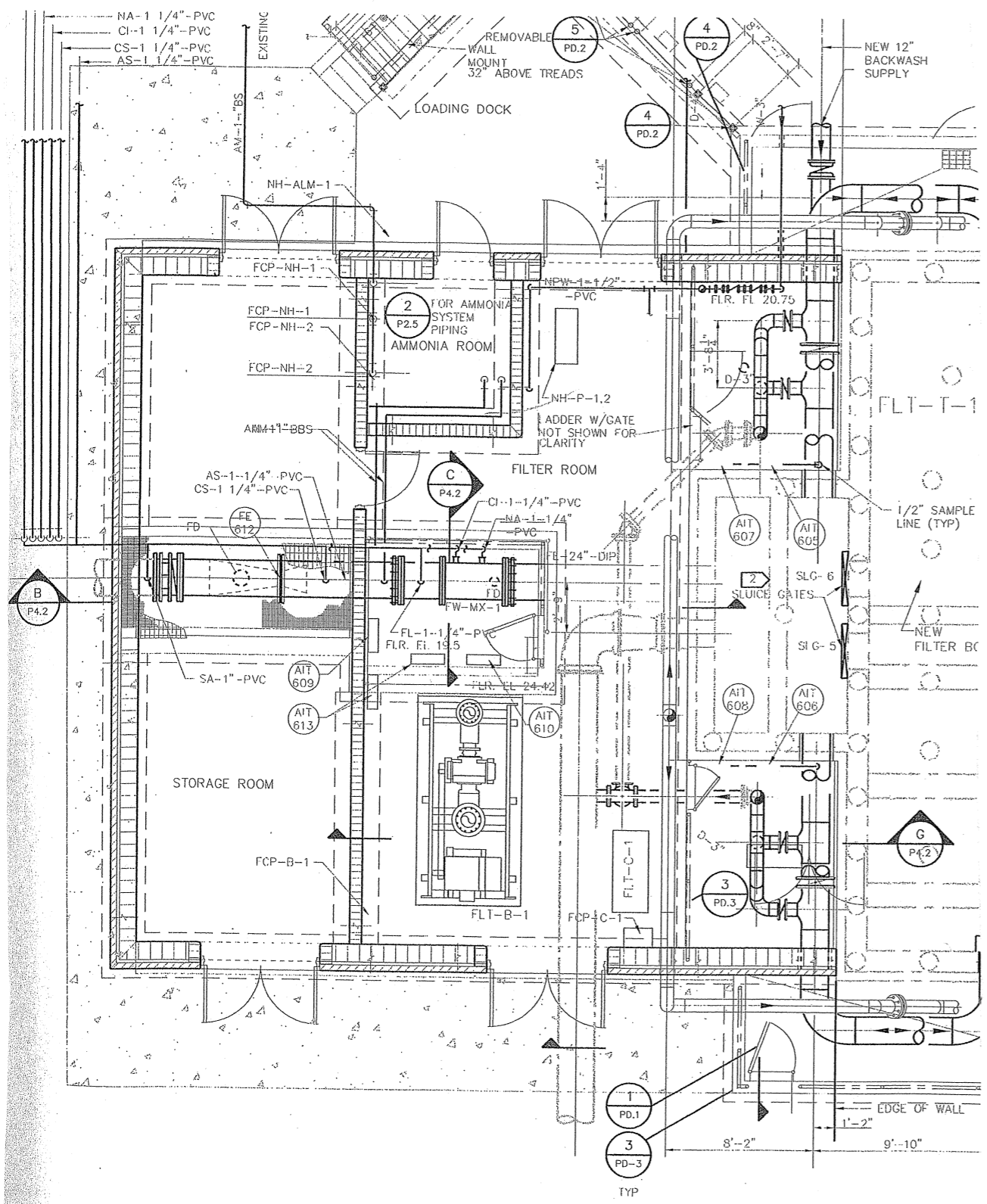


CITY OF GEORGETOWN
SOUTH CAROLINA

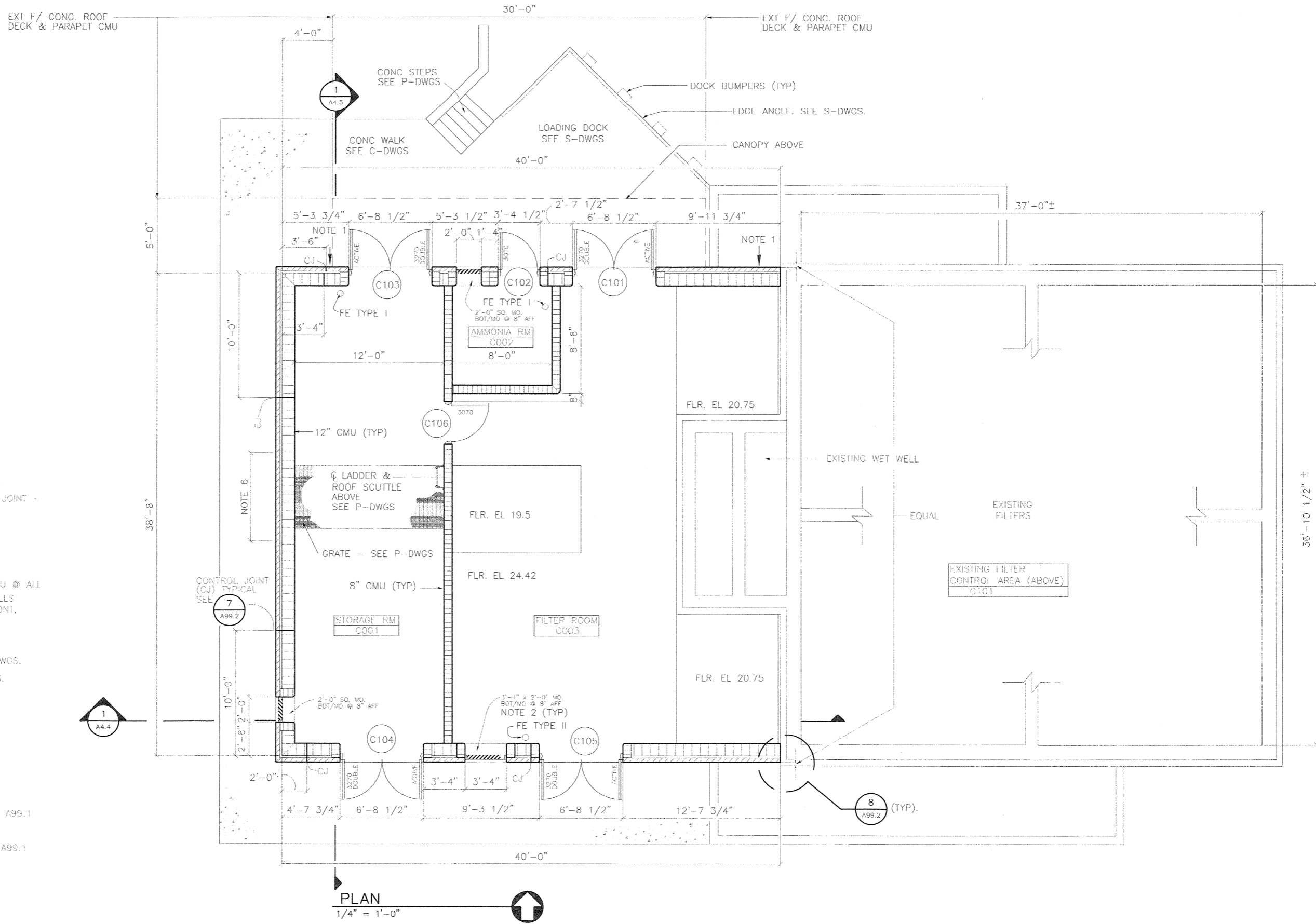


| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS CHEMICAL AND ADMINISTRATION BUILDING ENLARGED LABORATORY PLAN AND DETAILS | | | | |
|---|------------------|---------------------|-------|-----|
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A2.5 | 1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

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12.15.99



B SECTION-CHEMICAL FEED VAULT
P4.1



NOTES:

1. MASONRY OPENING FOR HVAC -- SEE M-DWGS.
2. LOCATE LOUVERS TO NEAREST VERT. MASONRY JOINT -- SEE 4 A99.2 FOR LOUVER DETAILS
3. ALL PERSONAL DOORS SHALL HAVE A 7'-4 3/8" HIGH M.O., U.N.O.
4. UNLESS NOTED OTHERWISE, USE BULLNOSE CMU @ ALL -- CMU OUTSIDE CORNERS @ INTERIOR WALLS -- EXPOSED CORNERS OF DOOR, STOREFRONT, & LOUVER JAMBS -- EXPOSED CORNERS OF STOREFRONT & LOUVER SILLS
5. GUARDRAILS, LADDERS, & GATES -- SEE P-DWGS.
6. CONCRETE FOUNDATION WALL -- SEE S-DWGS.

LEGEND:

- OFFICE → ROOM NAME
- D105 → ROOM NUMBER SEE FINISH SCHEDULE -- SEE SHEET A99.1
- D104 → DOOR NUMBER SEE DOOR SCHEDULE -- SEE SHEET A99.1
- 12" CMU
- 8" CMU
- 4" BRICK
- CAST-IN-PLACE CONC.

PLAN
1/4" = 1'-0"

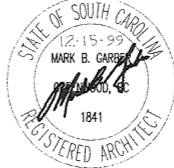
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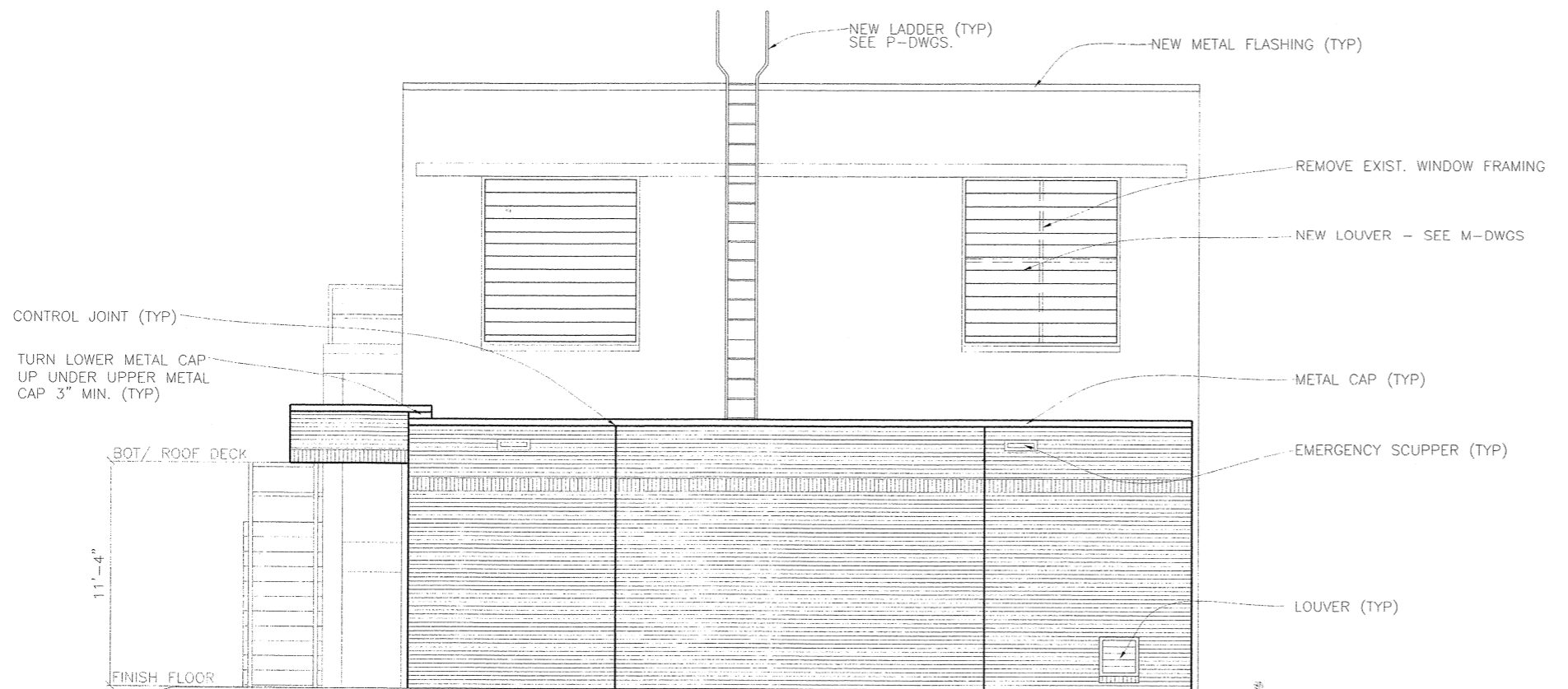


CITY OF GEORGETOWN
SOUTH CAROLINA

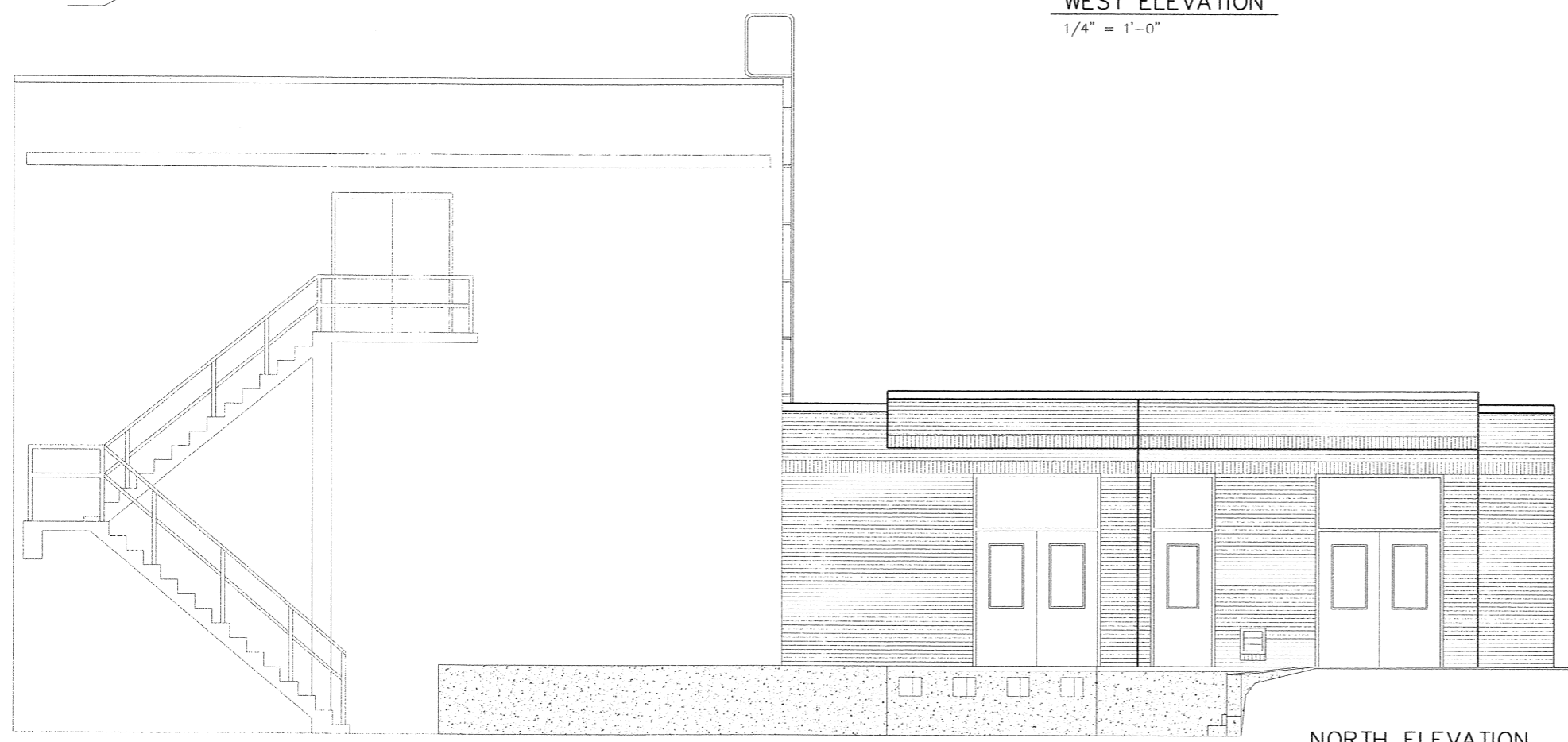


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| FILTER BUILDING MODIFICATIONS FLOOR PLAN | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A4.1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

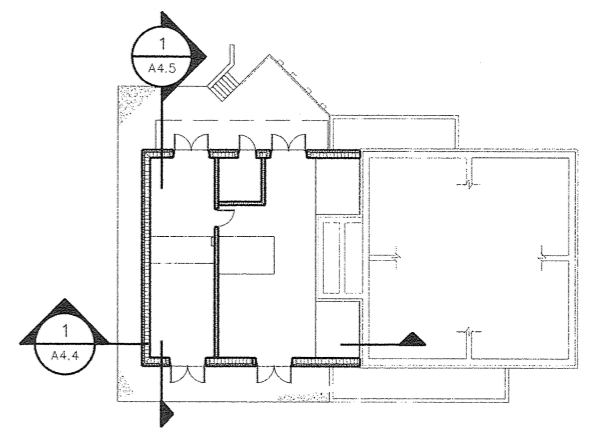
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WEST ELEVATION
1/4" = 1'-0"



NORTH ELEVATION
1/4" = 1'-0"



KEY PLAN
N.T.S.

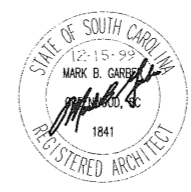
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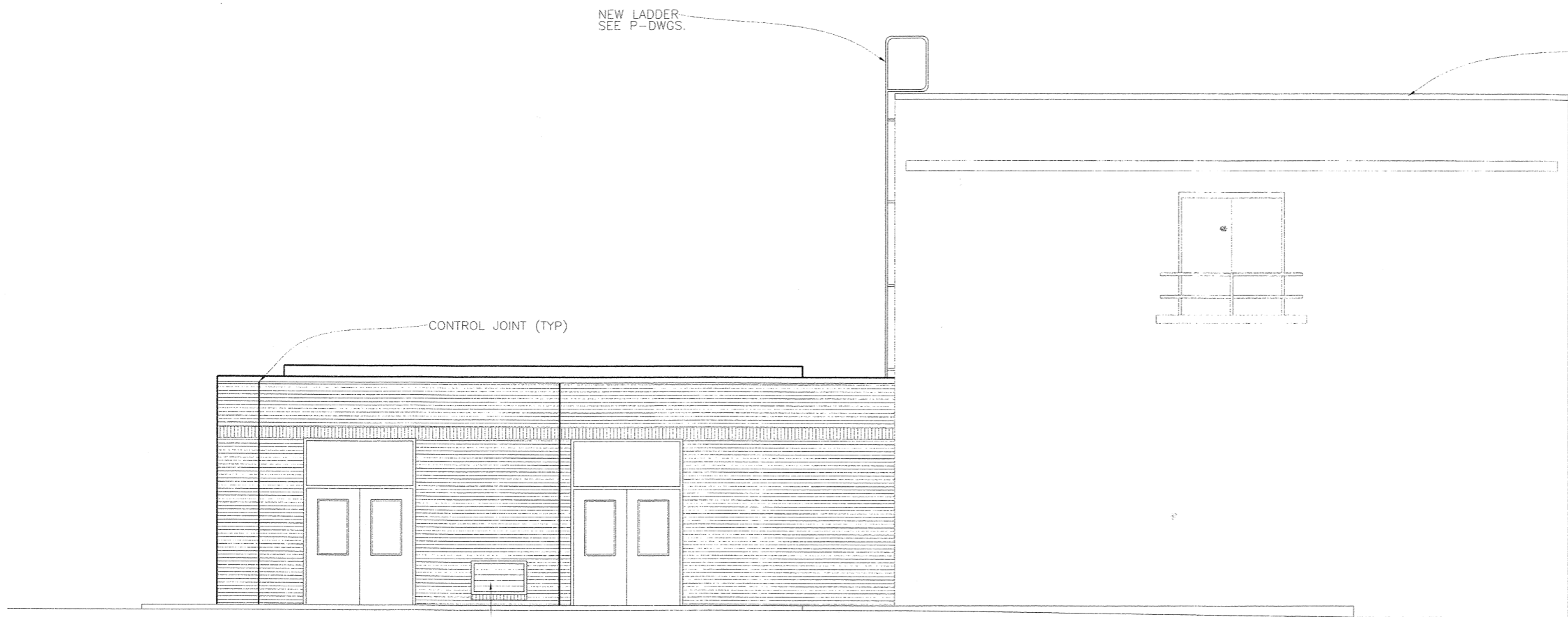


CITY OF GEORGETOWN
SOUTH CAROLINA

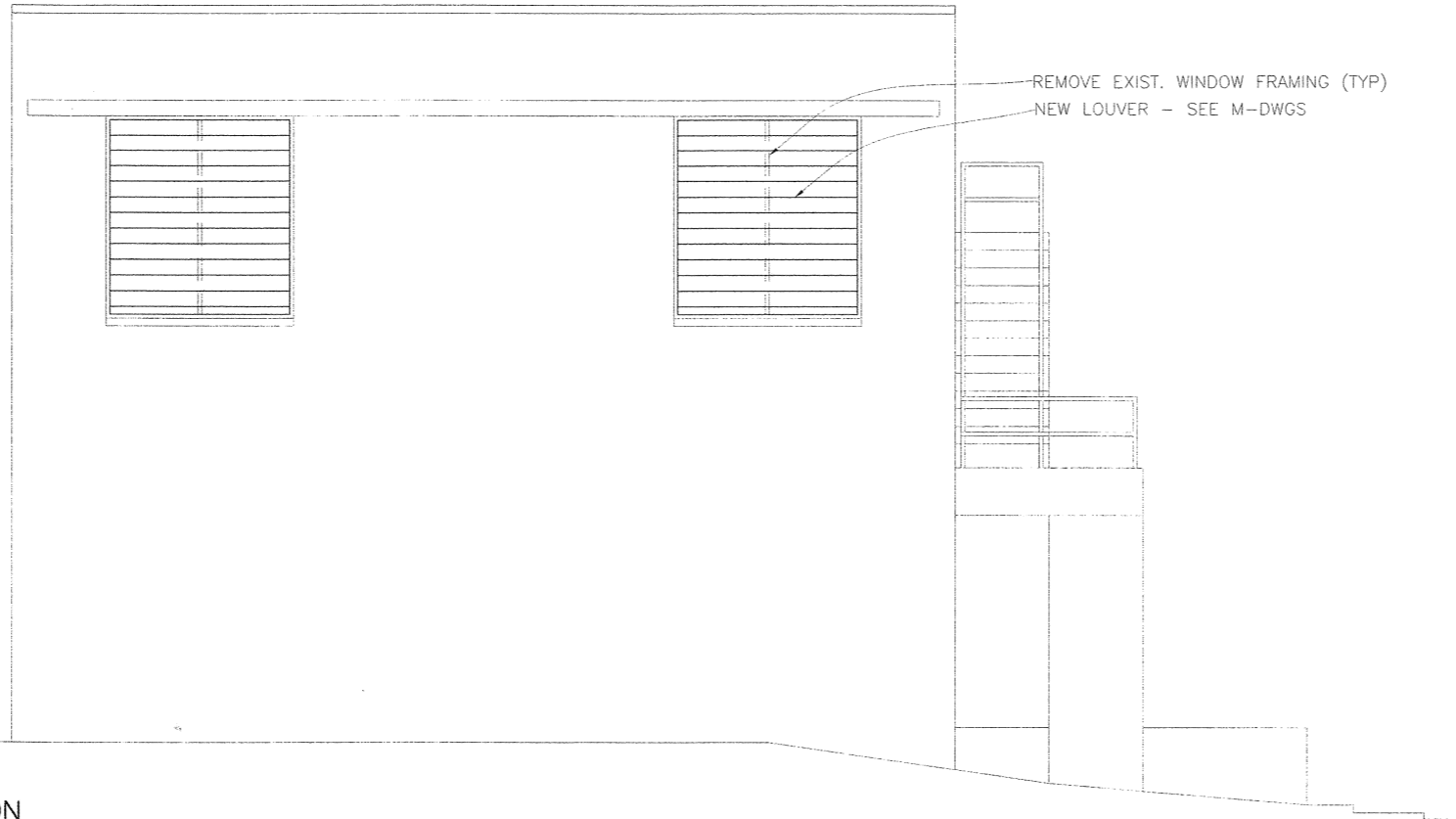


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | | |
| FILTER BUILDING MODIFICATIONS ELEVATIONS | | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A4.2 | 1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

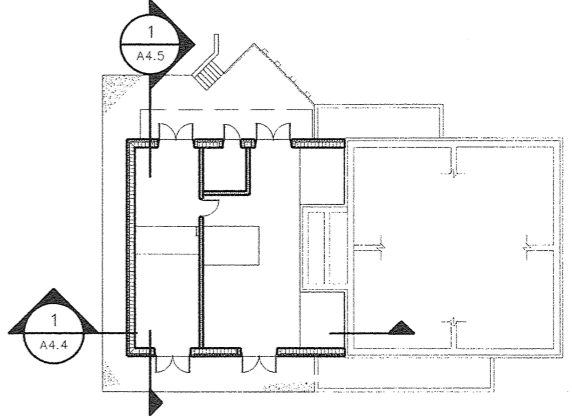
12/15/99



SOUTH ELEVATION
1/4" = 1'-0"



EAST ELEVATION
1/4" = 1'-0"



KEY PLAN
N.T.S.

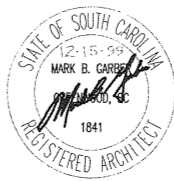
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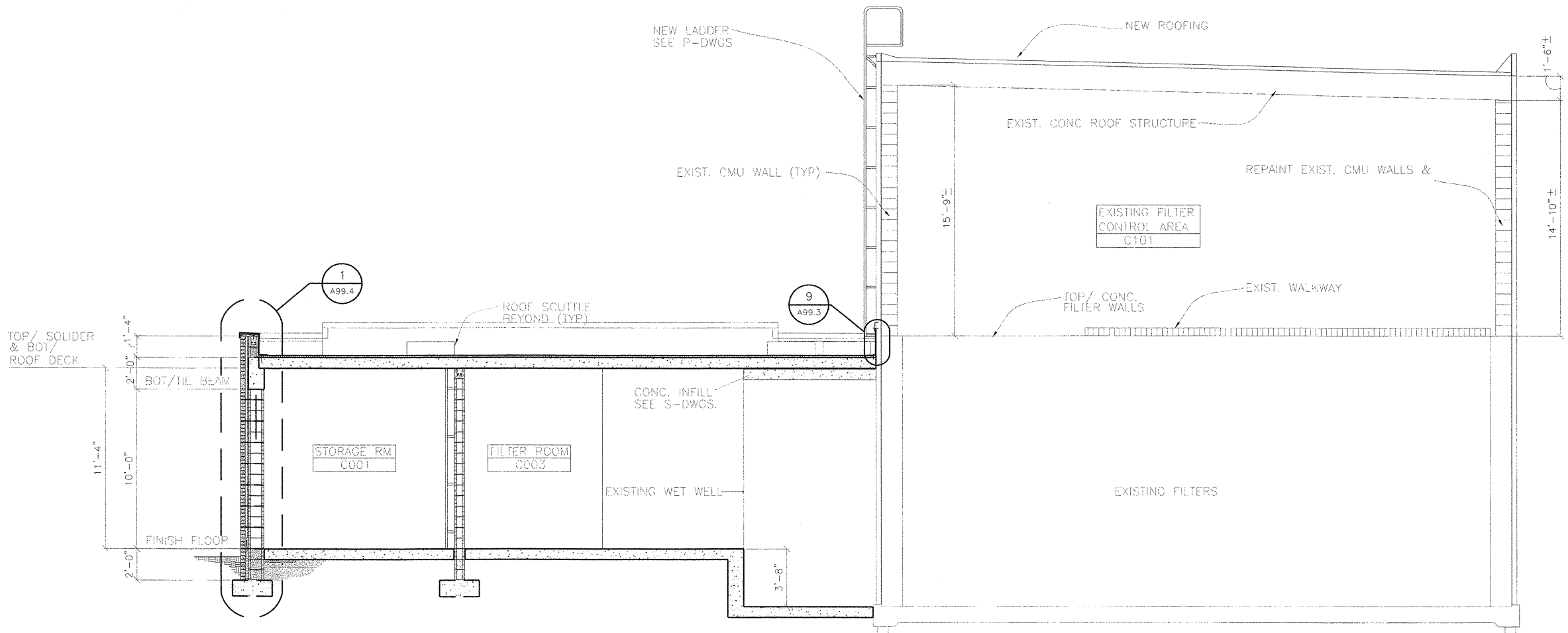


CITY OF GEORGETOWN
SOUTH CAROLINA

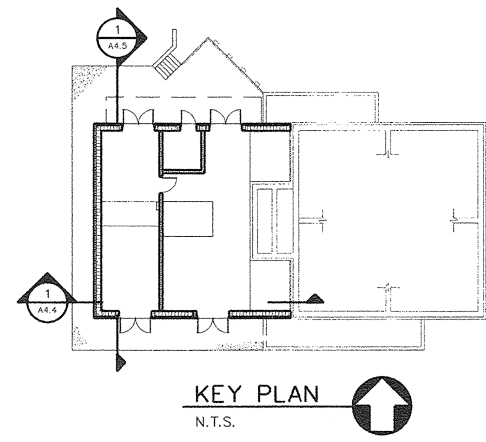


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| FILTER BUILDING MODIFICATIONS ELEVATIONS | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A4.3 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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12.15.99



1 SECTION
A4.4 1/4" = 1'-0"



NOTES:
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| NO. | DATE | DESCRIPTION OF REVISION |
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| 0 | 12-15-99 | INITIAL ISSUE |

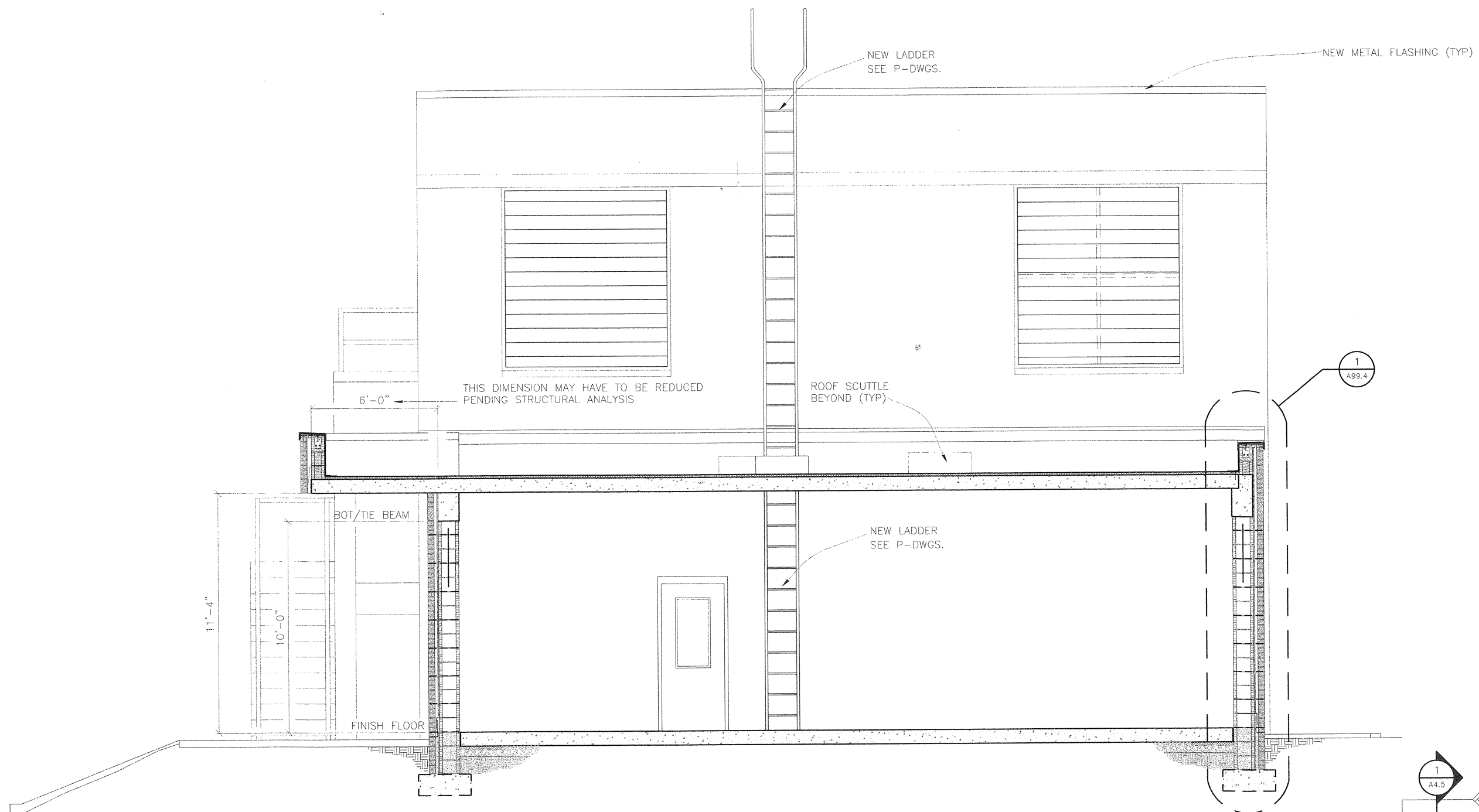


CITY OF GEORGETOWN
SOUTH CAROLINA

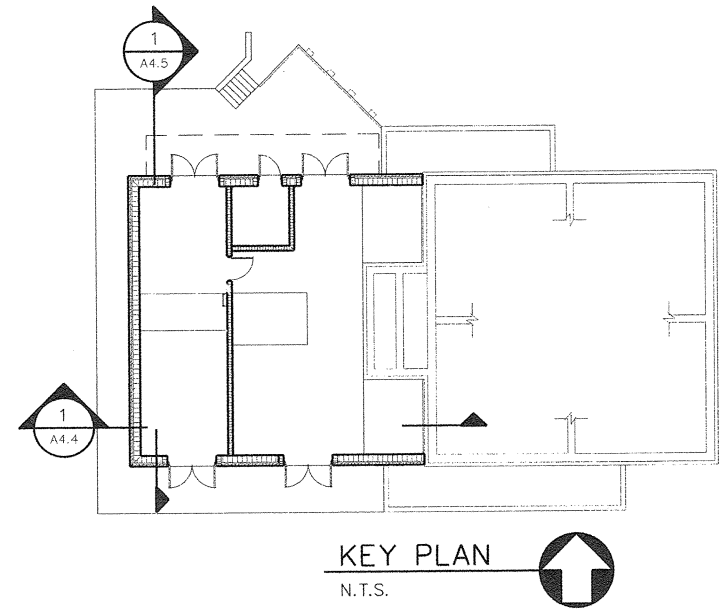


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| FILTER BUILDING MODIFICATIONS SECTION | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A4.4 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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12-15-99



1 SECTION
A4.5 3/8" = 1'-0"



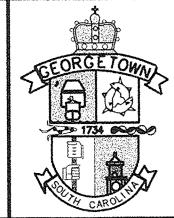
LEGEND:

- OFFICE D105 --- ROOM NAME
- ROOM NUMBER
SEE FINISH SCHEDULE - SEE SHEET A99.1
- (D104) --- DOOR NUMBER
SEE DOOR SCHEDULE - SEE SHEET A99.1
- [Pattern] 12" CMU
- [Pattern] 8" CMU
- [Pattern] 4" BRICK
- [Pattern] CAST-IN-PLACE CONC.

NOTES:
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| NO. | DATE | DESCRIPTION OF REVISION |
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SOUTH CAROLINA



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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS FILTER BUILDING MODIFICATIONS SECTION | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A4.5 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

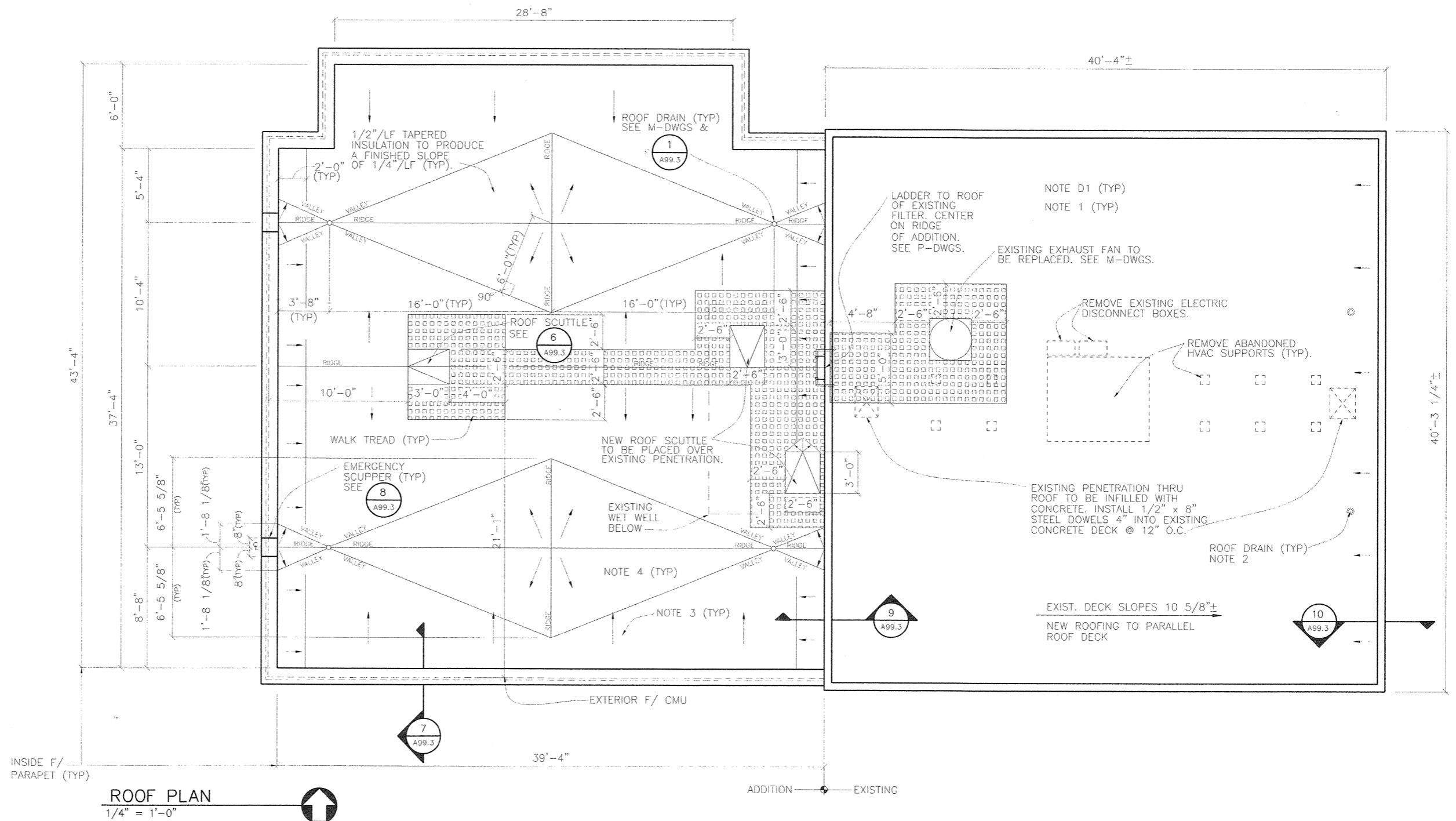
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DEMOLITION NOTES:

- D1. REMOVE ALL EXISTING ROOFING, ROOF INSULATION, ROOF EDGE FLASHING, AND WOOD BLOCKING.

NOTES:

- 1. INSTALL NEW WOOD BLOCKING, NEW 1 1/2" ISO ROOF INSULATION, NEW ROOFING, AND NEW ROOF EDGE FLASHING. SEE SHEET A99.3 FOR DETAILS.
- 2. EXISTING ROOF DRAIN TO REMAIN.
- 3. ALL TAPERED ROOF INSULATION SHALL HAVE A 1/4" PER LINEAR FOOT FINISHED SLOPE.
- 4. NEW ROOFING ON ADDITION - SEE SPECS.



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

NOTES:
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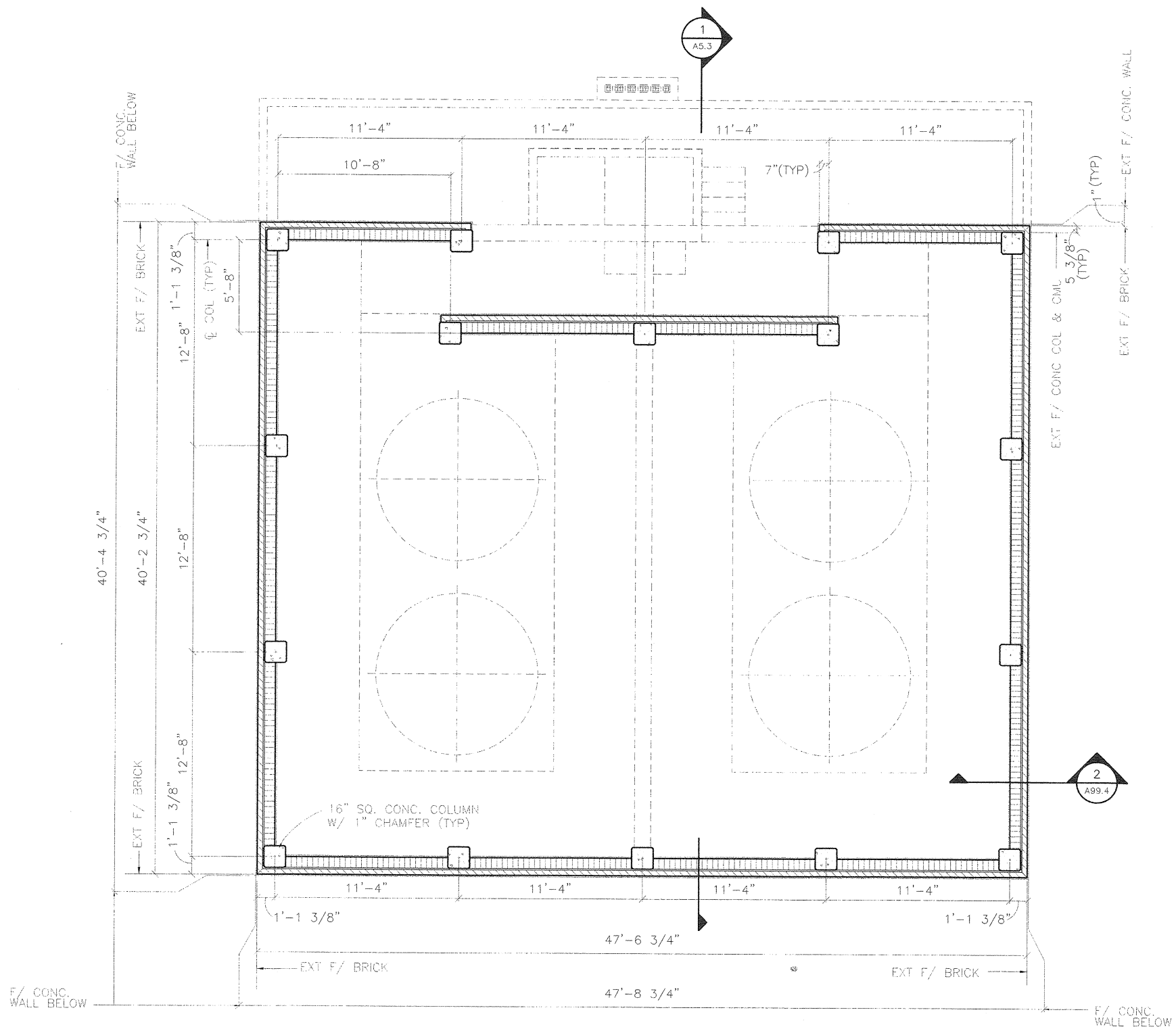
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| 0 | 12-15-99 | INITIAL ISSUE |
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

CITY OF GEORGETOWN
SOUTH CAROLINA



| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS FILTER BUILDING MODIFICATIONS ROOF PLAN | | | |
|--|------------------|---------------------|------|
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A4.6 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |



LEGEND:

-  12" CMU
-  8" CMU
-  4" BRICK
-  CAST-IN-PLACE CONC.

PLAN

1/4" = 1'-0"



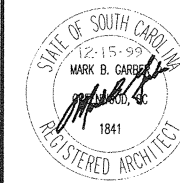
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 SOUTH CAROLINA

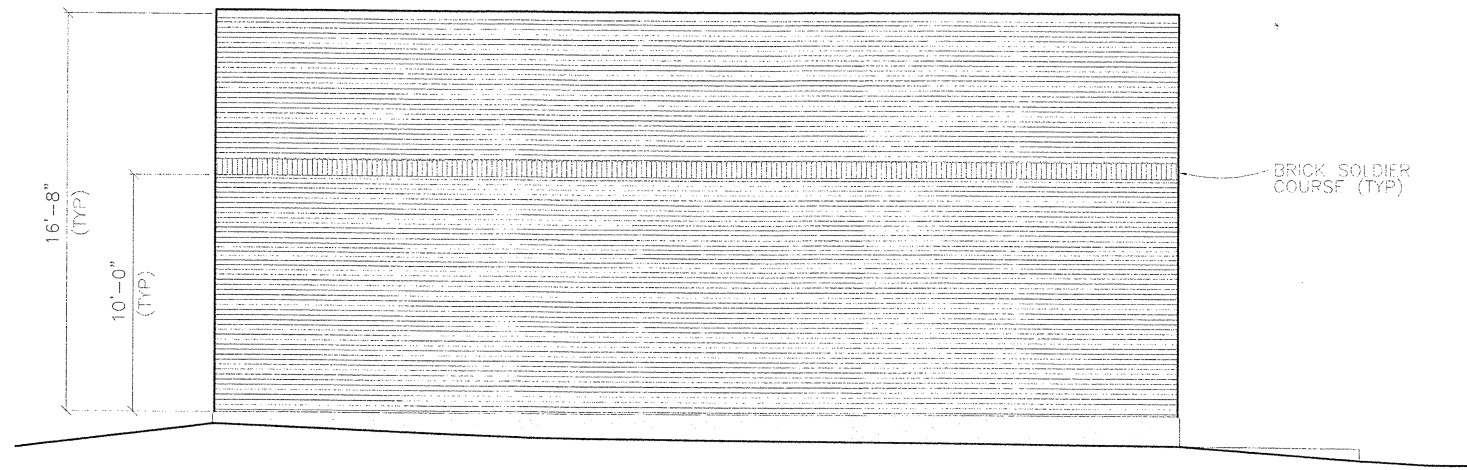


CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS

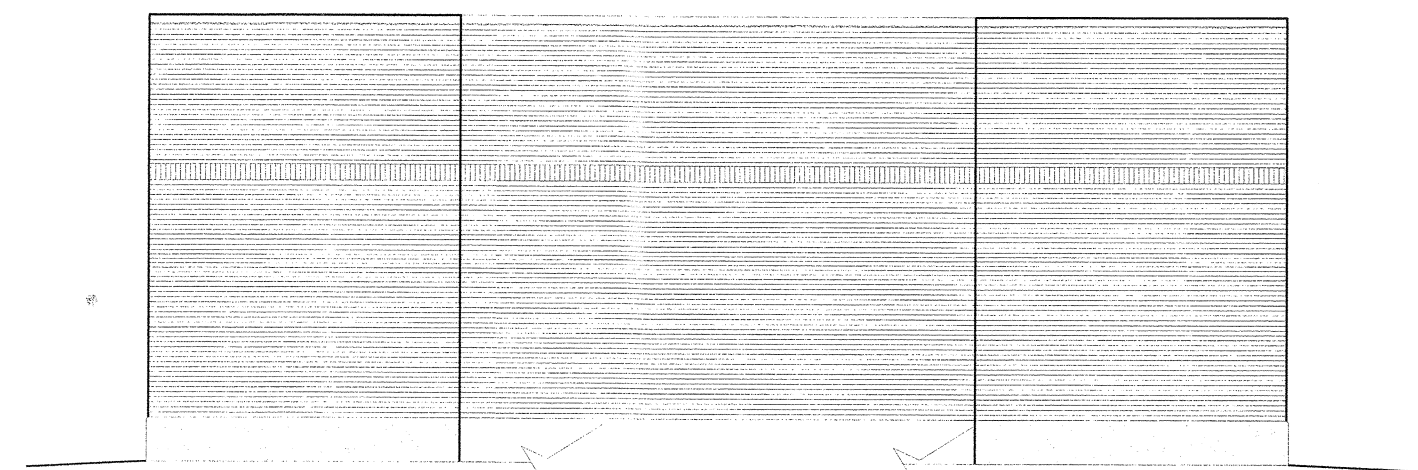
FERRIC CHLORIDE AND CAUSTIC
 BULK TANKS
 PLAN

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A5.1 | 1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

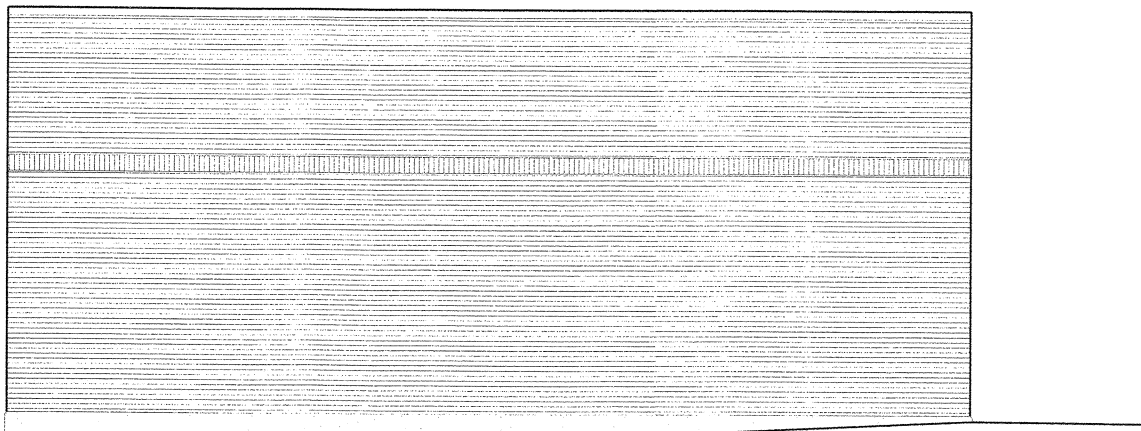
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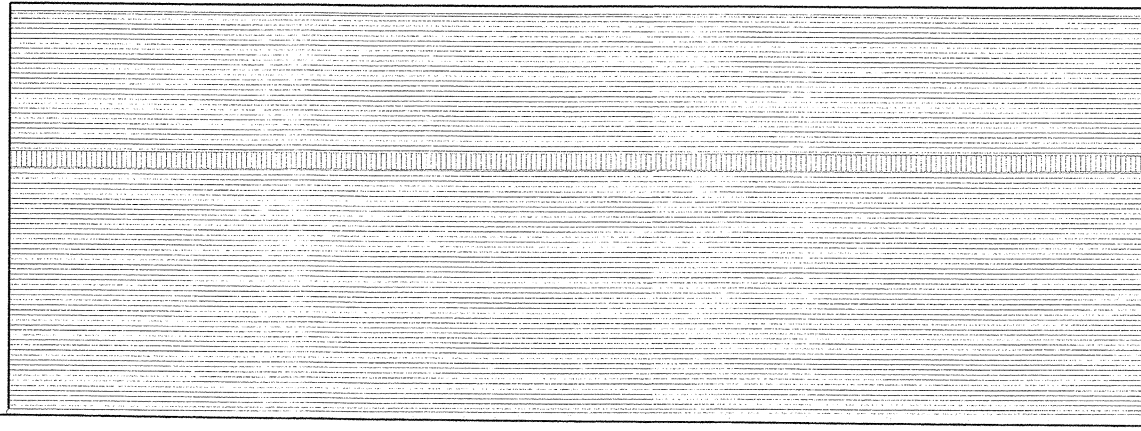
SOUTH ELEVATION
1/4" = 1'-0"



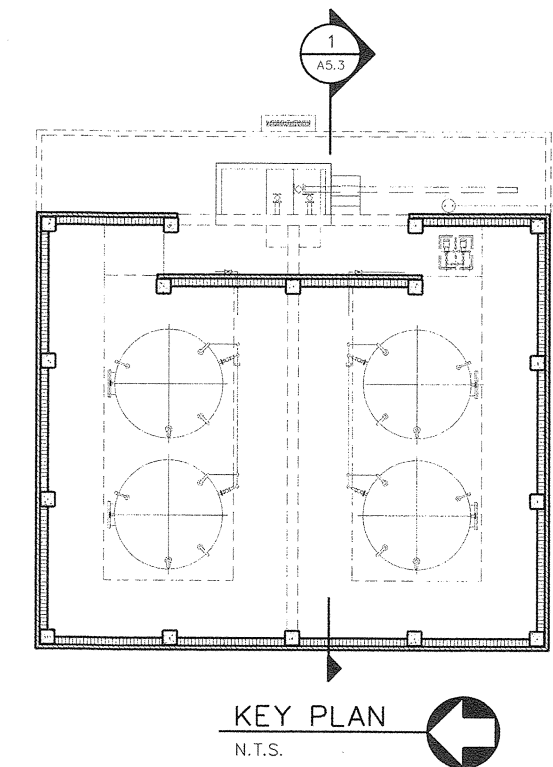
EAST ELEVATION
1/4" = 1'-0"



NORTH ELEVATION
1/4" = 1'-0"



WEST ELEVATION
1/4" = 1'-0"

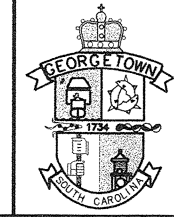


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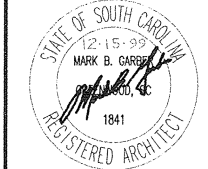
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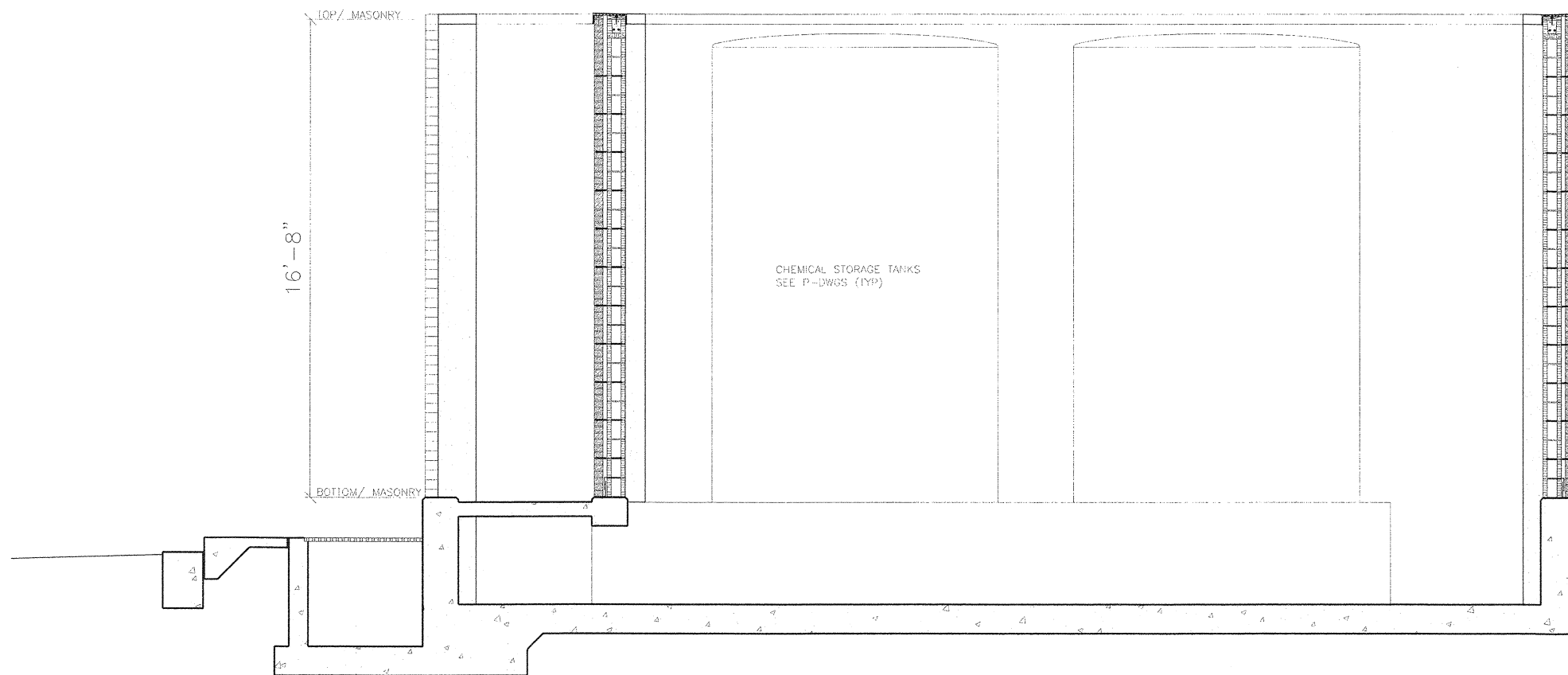
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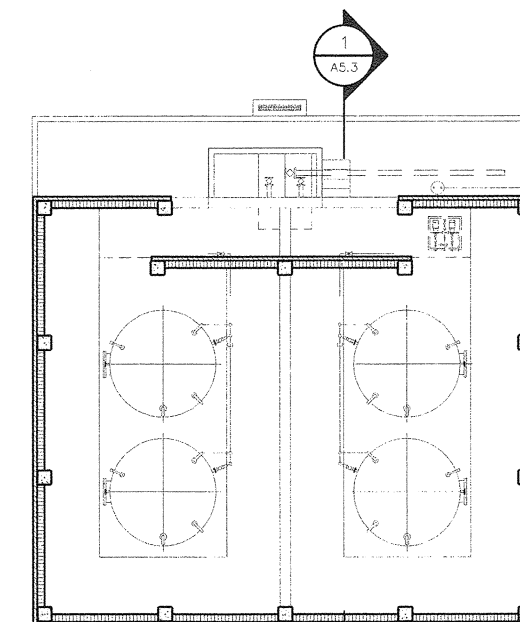
CITY OF GEORGETOWN
SOUTH CAROLINA



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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| FERRIC CHLORIDE AND CAUSTIC BULK TANKS ELEVATIONS | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A5.2 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |







SECTION 1
3/8" = 1'-0" A5.3

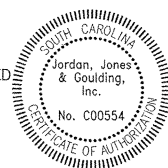


KEY PLAN
N.T.S.

LEGEND:

-  12" CMU
-  8" CMU
-  4" BRICK
-  CAST-IN-PLACE CONC.

NOTES:
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CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

FERRIC CHLORIDE AND CAUSTIC
BULK TANKS
SECTION

| | | | | |
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| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A5.3 | 1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

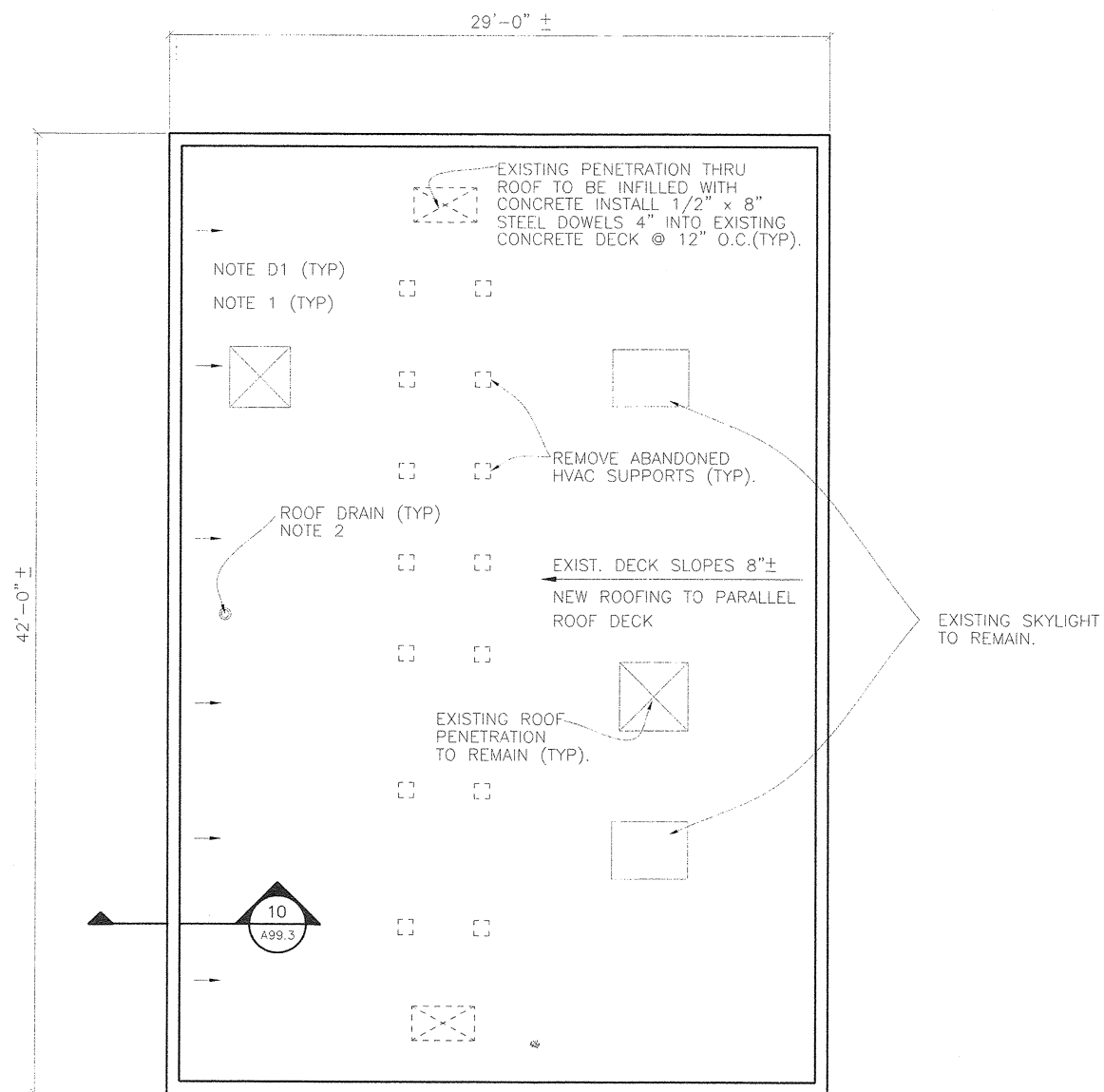
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12.15.99

DEMOLITION NOTES:

D1. REMOVE ALL EXISTING ROOFING, ROOF INSULATION, ROOF EDGE FLASHING, AND WOOD BLOCKING.

NOTES:

1. INSTALL NEW WOOD BLOCKING, NEW 1 1/2" ISO ROOF INSULATION, NEW ROOFING, AND NEW ROOF EDGE FLASHING. SEE SHEET A99.3 FOR DETAILS.
2. EXISTING ROOF DRAIN TO REMAIN.



HSPS ROOF PLAN
1/4" = 1'-0"

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12.15.99

NOTES:
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SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

**HIGH SERVICE PUMP STATION
ROOF PLAN**

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A6.1 | 1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

DOOR SCHEDULE

| DOOR NO | DOOR SIZE | DOOR MATERIAL | DOOR TYPE | FRAME TYPE | INSTALLATION TYPE | HARDWARE | REMARKS |
|---|----------------------|---------------|-----------|------------|-------------------|----------|-----------------|
| CHEMICAL & ADMINISTRATION BUILDING | | | | | | | |
| A001 | 8'-0" x 7'-9" H. O/H | AL | D-3 | F-5 | 3 | --- | |
| A002 | 3'-2" x 7'-0" PR | FRP | D-1 | F-1 | 2 | SET 1 | |
| A101 | 3'-10" x 9'-0" PR | --- | --- | --- | --- | --- | SEE SHEET A99.5 |
| A102 | 3'-10" x 7'-2" PR | --- | --- | --- | --- | --- | SEE SHEET A99.5 |
| A104 | 3'-2" x 7'-0" PR | FRP | D-1 | F-1 | 2 | SET 1 | |
| FILTER BUILDING | | | | | | | |
| C101 | 3'-2" x 7'-0" PR | FRP | D-1 | F-3 | 1 | SET 2 | |
| C102 | 3'-0" x 7'-0" | FRP | D-2 | F-4 | 1 | SET 3 | |
| C103 | 3'-2" x 7'-0" PR | FRP | D-1 | F-3 | 1 | SET 2 | |
| C104 | 3'-2" x 7'-0" PR | FRP | D-1 | F-3 | 1 | SET 4 | |
| C105 | 3'-2" x 7'-0" PR | FRP | D-1 | F-3 | 1 | SET 4 | |
| C106 | 3'-0" x 7'-0" | FRP | D-2 | F-2 | 2 | SET 5 | |

FINISH NOTES

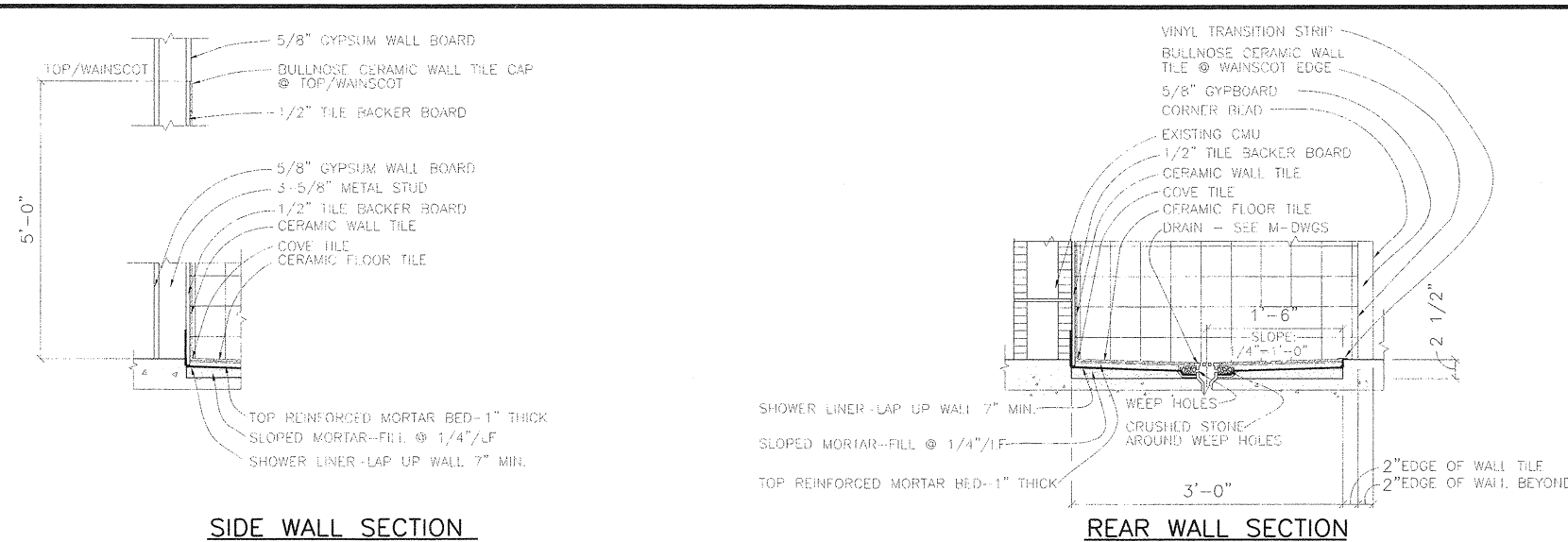
- CAST-IN-PLACE CONCRETE ITEMS SUCH AS BOND BEAMS, COLUMNS, AND PILASTERS WHICH ARE EXPOSED IN CMU WALLS AND BRICK WALLS, WHICH ARE TO BE PAINTED, SHALL BE PAINTED TO MATCH CMU OR BRICK WALL PAINT (TYPICAL).
- PRIOR TO PAINTING OF EXISTING SURFACES, PREPARE THE SURFACES BY COMPLETELY REMOVING ALL LAITANCE, OTHER FOREIGN MATERIALS, AND IMPROPERLY ADHERED PAINT IN ACCORDANCE WITH THE NEW PAINT MANUFACTURER'S WRITTEN RECOMMENDATIONS (TYPICAL).
- PRIOR TO INSTALLATION OF NEW RESILIENT TILE, GRIND THE SURFACE OF THE EXISTING EPOXY FLOOR FINISH TO CREATE A ROUGH SURFACE WHICH WILL ALLOW PROPER ADHESION OF THE NEW RESILIENT TILE ADHESIVE.
- PAINT THE EXISTING CMU WALLS AND CONCRETE CEILING ABOVE THE FILTERS AFTER PREPARING THE EXISTING SURFACES IN ACCORDANCE WITH SYSTEM CC-3 AS DETAILED IN THE SPECIFICATIONS. 2 OF THE 4 FILTERS WILL BE DRAINED AT A TIME. PREPARE AND PAINT SURFACES OVER 2 FILTERS AT A TIME WHEN THEY ARE DRAINED AND COMPLETELY PROTECT THE 2 OTHER OPERATING FILTERS FROM ALL FOREIGN MATERIALS.
- WALL HEIGHT INCREASES AT DEPRESSED FLOOR AREAS.

FINISH SCHEDULE LEGEND

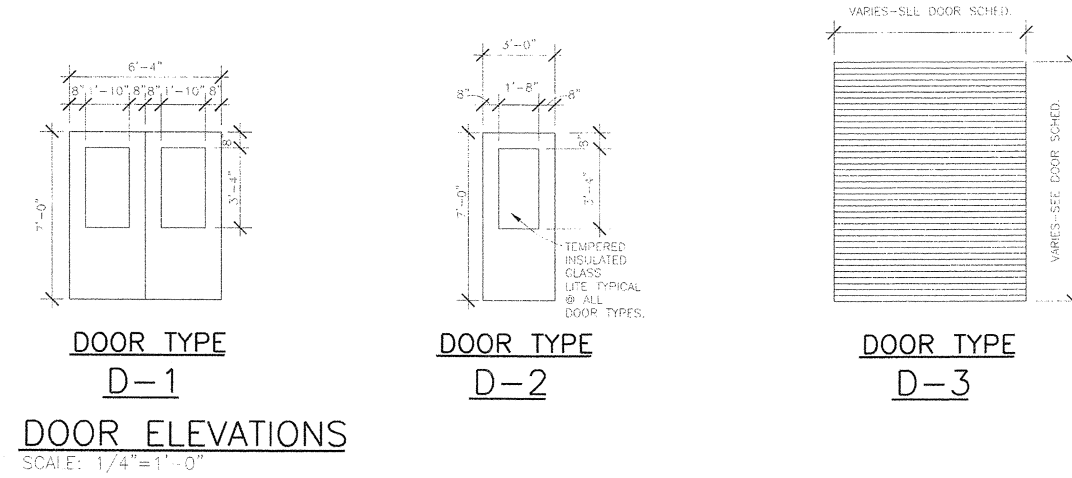
| | |
|----------|--|
| RB: | RUBBER BASE |
| RT: | RESILIENT TILE |
| CMU: | CONCRETE MASONRY UNIT-UNPAINTED |
| CMU/P: | CONCRETE MASONRY UNIT-PAINTED - SEE FINISH NOTE 1. |
| CT: | CERAMIC TILE |
| COVE CT: | COVE CERAMIC TILE |
| ACT: | ACOUSTICAL TILE WITH R-19 BATT INSULATION |
| EXPST: | EXPOSED STRUCTURE |
| BRK: | BRICK - UNPAINTED |
| BRK/P: | BRICK - PAINTED - SEE FINISH NOTE 1. |
| SF: | STOREFRONT |
| EFTR: | EXISTING FINISH TO REMAIN |
| CB/P: | GYPSUM BOARD - PAINTED |
| CONC/P: | CONCRETE - PAINTED |

FINISH SCHEDULE

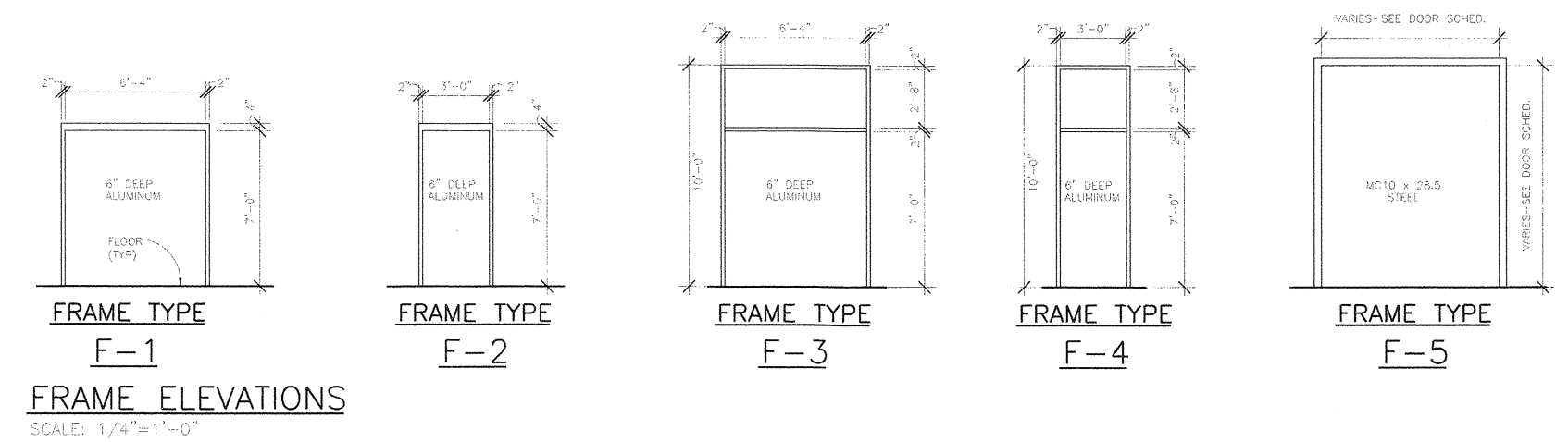
| ROOM NO | ROOM NAME | WALLS | | | | BASE | FLOOR FINISH | CEILING TYPE | CEILING FINISH | CEILING HEIGHT | REMARKS |
|---|---------------------|-------------------|-------------------|------------------|------------------|------|--------------|--------------|----------------|----------------|-------------------------|
| | | NORTH TYPE FINISH | SOUTH TYPE FINISH | EAST TYPE FINISH | WEST TYPE FINISH | | | | | | |
| CHEMICAL & ADMINISTRATION BUILDING | | | | | | | | | | | |
| A001 | FERRIC CHLORIDE RM | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | EXPST | --- | 11'-3 1/2" ± | |
| A002 | CHEMICAL FEED RM | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | EXPST | --- | 11'-3 1/2" ± | |
| A003 | OFFICE | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | NEW ACT | --- | 8'-0" | |
| A004 | CONFERENCE | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | NEW ACT | --- | 8'-0" | |
| A005 | RECEPTION | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | NEW ACT | --- | 8'-0" | |
| A101 | CHLORINE RM | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | EXPST | --- | 11'-6" ± | |
| A102 | MAINTENANCE RM | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | EXPST | --- | 11'-6" ± | |
| A103 | FLUORIDE RM | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | EXPST | --- | 11'-6" ± | |
| A104 | ELECTRICAL RM | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | EXPST | --- | 11'-6" ± | |
| A105 | LABORATORY | CMU/P | CMU/P * | CMU/P * | CMU/P * | RB | RT NOTE 3 | NEW ACT | --- | 8'-0" | * GB/P @ NEW PARTITIONS |
| FILTER BUILDING | | | | | | | | | | | |
| C001 | STORAGE RM | CMU/P | CMU/P | CMU/P | CMU/P | --- | CONC | EXPST | --- | 11'-4" | |
| C002 | AMMONIA RM | CMU/P | CMU/P | CMU/P | CMU/P | --- | CONC | EXPST | --- | 11'-4" | |
| C003 | FILTER RM | CMU/P | CMU/P | BRK/P | CMU/P | --- | CONC | EXPST | --- | 11'-4" | NOTE 5 |
| C101 | FILTER CONTROL AREA | CMU/P | CMU/P | CMU/P | CMU/P | --- | --- | EXIST. CONC. | CONC/P | 16'-9" ± | NOTE 4 |



1 SAFETY SHOWER TILE DETAILS
1" = 1'-0"



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



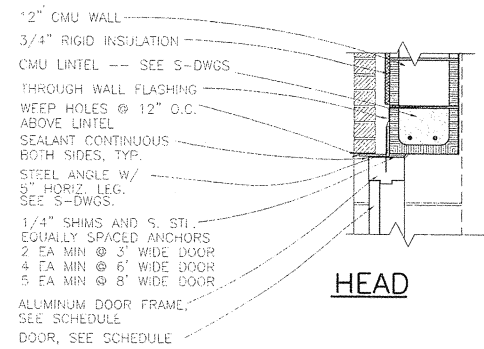
FRAME ELEVATIONS
SCALE: 1/4"=1'-0"

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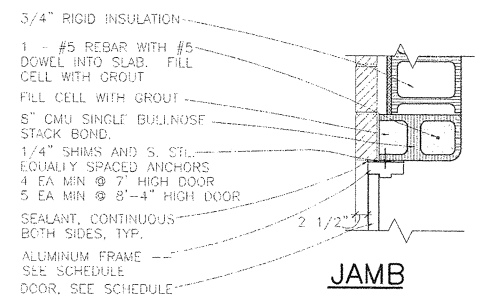
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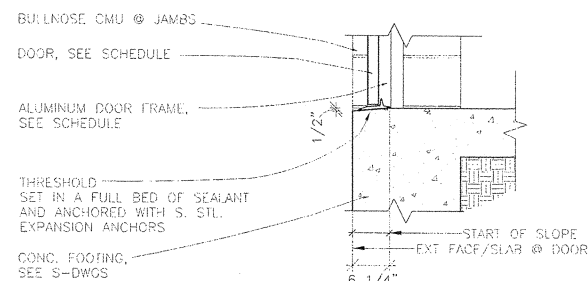
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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| TYPICAL DOOR SCHEDULE, FINISH SCHEDULE & DETAILS | | | |
| DESIGNED: MGB | CHECKED: | DATE: DECEMBER 1999 | A99.1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 REV |



HEAD

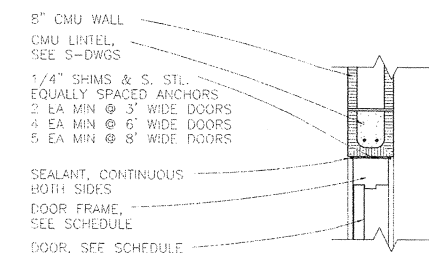


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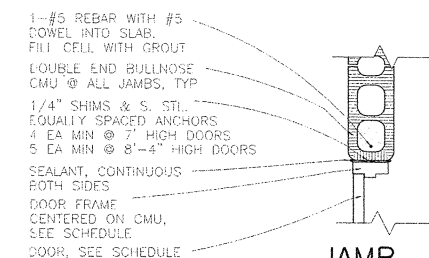


SILL

INSTALLATION TYPE 1
PERSONNEL DOOR
EXTERIOR WALL - 12" C.M.U.
SCALE: 3/4" = 1'-0"

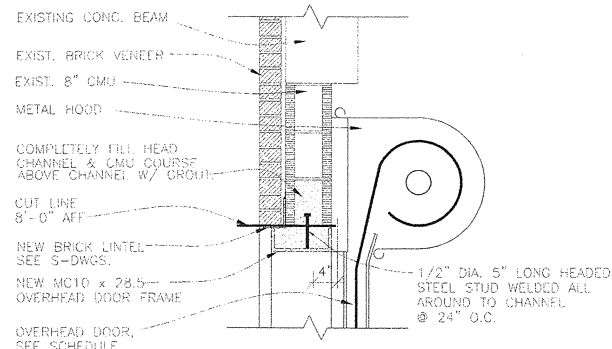


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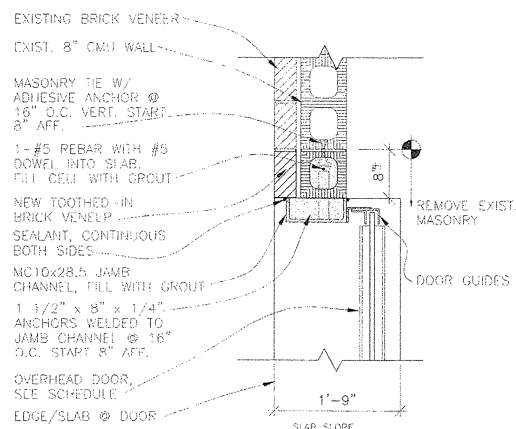


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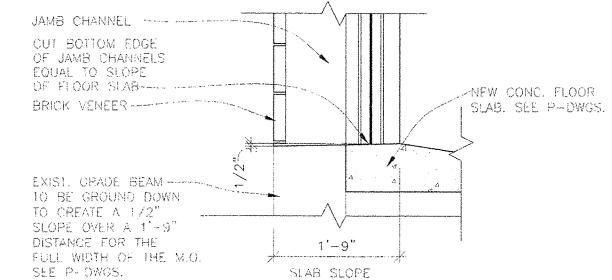
INSTALLATION TYPE 2
PERSONNEL DOOR
INTERIOR WALL - 8" C.M.U.
SCALE: 3/4" = 1'-0"



HEAD

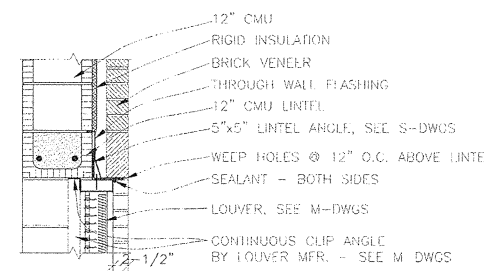


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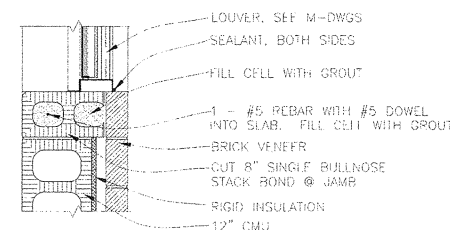


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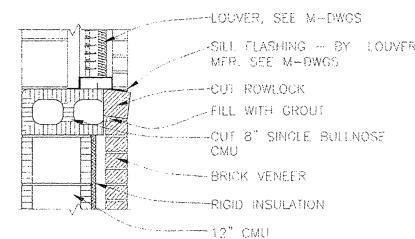
INSTALLATION TYPE 3
OVERHEAD COILING DOOR
EXTERIOR WALL - 8" C.M.U.
SCALE: 3/4" = 1'-0"



HEAD

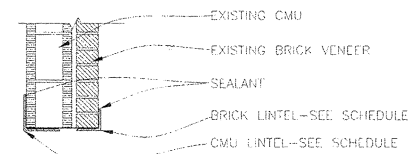


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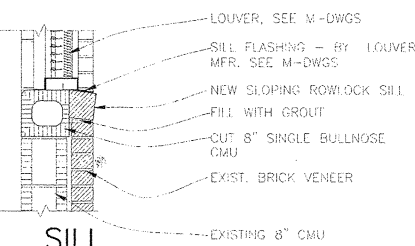


SILL

4 LOUVER DETAILS @ NEW CMU & BRICK
A99.2 3/4" = 1'-0"



HEAD

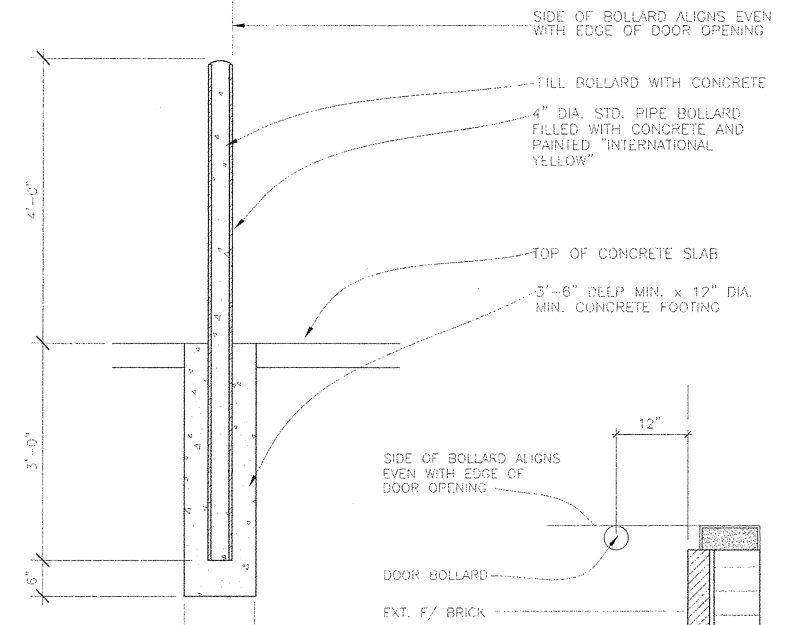


SILL

5 LOUVER DETAILS @ EXIST. MASONRY
A99.2 3/4" = 1'-0"

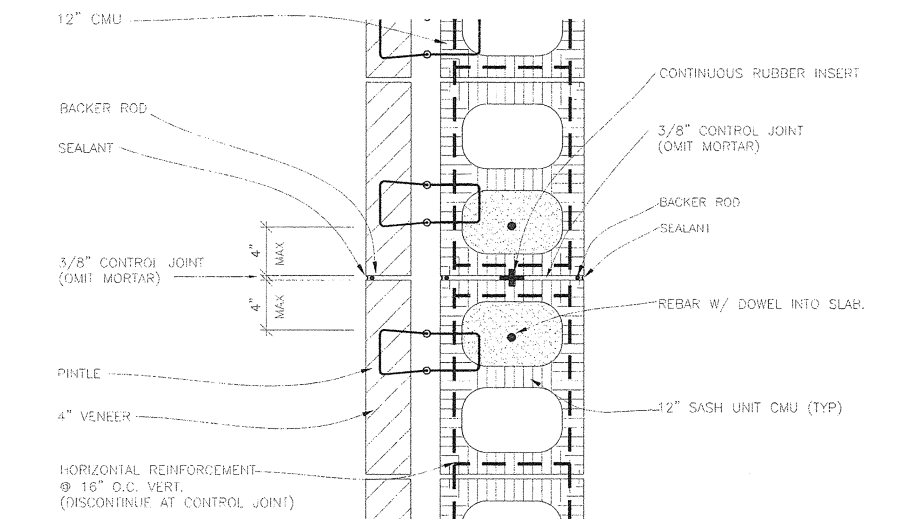
| MASONRY LINTEL SCHEDULE | | |
|-------------------------|-----------------------|---------------------------|
| OPENING WIDTH | CMU LINTEL | BRICK LINTEL |
| UP TO 2'-0" | 4.6" x 4" x 5/16" SLV | 5/16" x 3" PLATE |
| 2'-0" TO 2'-8" | 4.6" x 4" x 5/16" SLV | 4.4" x 3 1/2" x 5/16" LLV |
| 2'-8" TO 4'-0" | 4.6" x 6" x 5/16" | 4.4" x 3 1/2" x 5/16" LLV |

NOTE: 4" MIN. BEARING @ EACH END



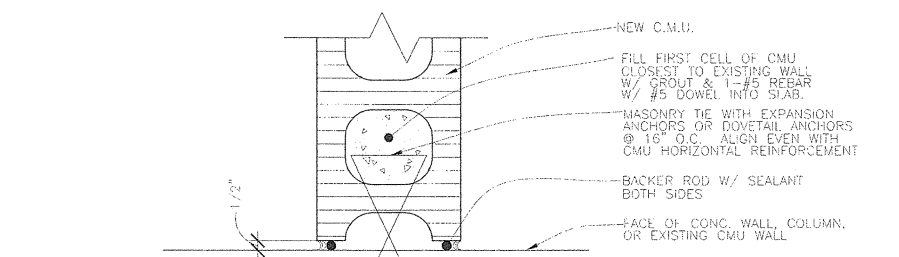
PLAN

6 DOOR BOLLARD DTL.
A99.2 3/4" = 1'-0"



7 CONTROL JOINT DTL - PLAN
A99.2 1 1/2" = 1'-0"

NOTES:
1. ALIGN HORIZONTAL REINFORCEMENT SO THAT PINTLES ARE LOCATED WITHIN 4" OF C.J.
2. BRICK CJ LOCATION MAY VARY FROM CMU CJ LOCATION A MAXIMUM OF 2"



8 C.M.U. ANCHORING DETAIL
A99.2 1 1/2" = 1'-0"

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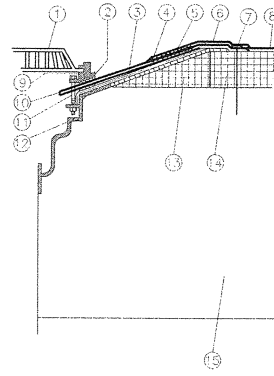


CITY OF GEORGETOWN
SOUTH CAROLINA



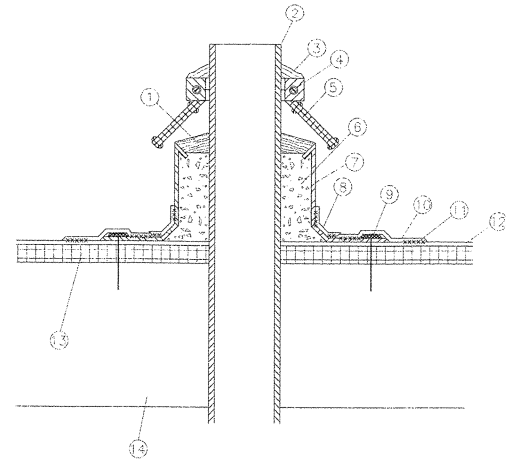
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
|--|------------------|---------------------|-------|
| TYPICAL DOOR DETAILS AND MISCELLANEOUS DETAILS | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A99.2 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
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1. STRAINER
2. FTR #101 SEALANT
3. LEAD FLASHING
4. FTR #201 MASTIC
5. HOT AIR WELD
6. FTR FLASHING
7. APPROVED FASTENER W/ STRESS PLATE
8. FTR FIELD SHEET
9. CLAMPING RING
10. EXTEND FLASHING 1" INSIDE CLAMPING RING
11. DRAIN BOLT
12. DRAIN ASSEMBLY
13. TAPERED INSULATION
14. 1 1/2" ISO INSULATION
15. CONC. ROOF DECK



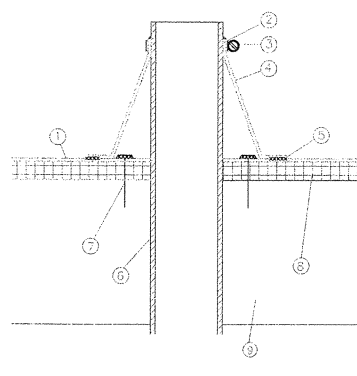
1 ROOF DRAIN FLASHING
SCALE: N.T.S.

1. FTR #101 SIL SEALANT
2. PENETRATION
3. FTR #101 SEALANT
4. SS WORMGEAR CLAMP
5. FIBERGLAD 22 GA. METAL FLASHING
6. NON-SHRINK GROUT
7. FIBERGLAD METAL PAN (22 GA.)
8. FTR NONREINFORCED
9. APPROVED FASTENER
10. FTR FLASHING
11. HOT AIR WELD
12. FTR MEMBRANE
13. 1 1/2" ISO INSULATION
14. CONC. ROOF DECK



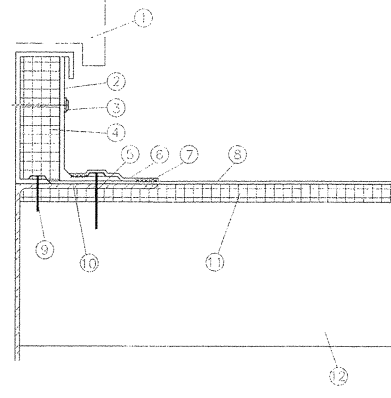
2 PITCH PAN FLASHING
SCALE: N.T.S.

1. FTR MEMBRANE
2. FTR #101 SEALANT
3. STAINLESS STEEL WORMGEAR CLAMP
4. PREFORMED FTR PIPE FLASHING (60 MIL NONREINFORCED MEMBRANE)
5. HOT AIR WELD
6. STACK - SEE M-DWGS
7. APPROVED FASTENER W/STRESS PLATE (2 MINIMUM)
8. 1 1/2" ISO INSULATION
9. CONC. ROOF DECK



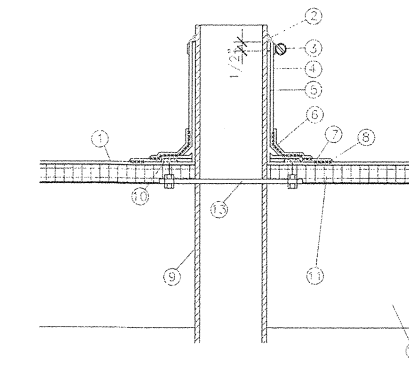
3 PREFORMED PIPE FLASHING
SCALE: N.T.S.

1. ROOFTOP UNIT - SEE M-DWGS
2. FIBERGLAD METAL
3. APPROVED FASTENER W/NEOPRENE SEALING WASHER
4. 1" ISO INSULATION
5. APPROVED FASTENER
6. FTR FLASHING
7. HOT AIR WELD
8. FTR MEMBRANE
9. APPROVED FASTENER
10. STEEL CURB SUPPORT - SEE S DWGS
11. 1 1/2" ISO INSULATION
12. CONC. ROOF DECK



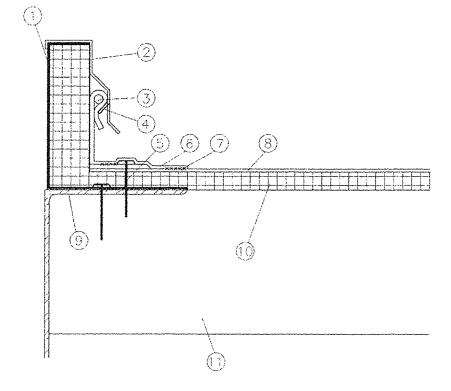
4 INSULATED CURB
SCALE: N.T.S.

1. FTR MEMBRANE
2. FTR #101 SEALANT
3. STAINLESS STEEL WORMGEAR CLAMP
4. FTR FLASHING
5. FTR #201 MASTIC
6. FTR 60 MIL NONREINFORCED MEMBRANE
7. FTR FLASHING
8. HOT AIR WELD
9. STACK - SEE M-DWGS OR SUPPORT POST
10. APPROVED FASTENER W/STRESS PLATE (2 MINIMUM)
11. 1 1/2" ISO INSULATION
12. CONC. ROOF DECK
13. BASE PLATE @ POST WHERE APPLICABLE



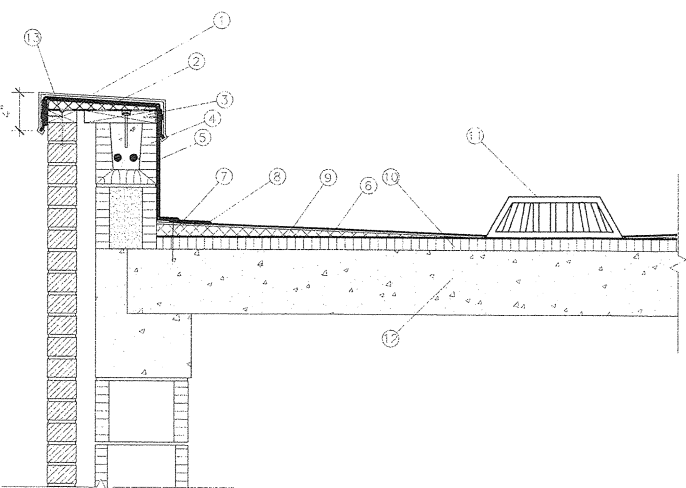
5 FIELD FABRICATED STACK/
SUPPORT POST FLASHING
SCALE: N.T.S.

1. BILCO CURB
2. BILCO CAP FLASHING
3. BILCO "PAK-ROPE"
4. REPPRESSED BILCLIP TO RETAIN ROOF MEMBRANE
5. APPROVED FASTENER
6. FTR FLASHING
7. HOT AIR WELD
8. FTR MEMBRANE
9. STEEL CURB SUPPORT - SEE S-DWGS
10. 1 1/2" ISO INSULATION
11. CONC. ROOF DECK



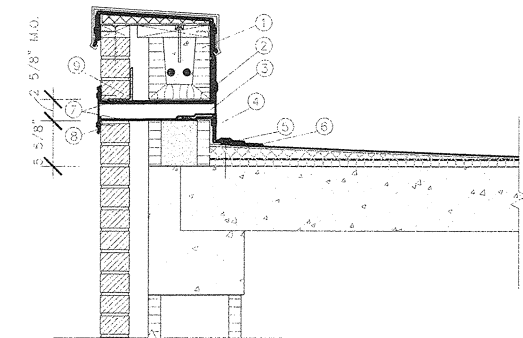
6 ROOF SCUTTLE
FLASHING
SCALE: N.T.S.

1. METAL CAP FLASHING - SLOPED TO ROOF & ATTACHED TO CONTINUOUS CLEATS ON BOTH SIDES OF PARAPET.
2. 1/2" TAPERED ISO INSULATION
3. PT 2x10 WOOD BLOCKING ANCHORED TO BOND BEAM W/ COUNTERSUNK 1/2" DIA. S.S. ANCHORS @ 4'-0" O.C. MIN. 4" EMBEDMENT
4. 8" C.M.U. BOND BEAM
5. FTR #201 MASTIC
6. FTR MEMBRANE - EXTEND MEMBRANE UP PARAPET WALL, OVER TOP OF PARAPET, AND OVER EXTERIOR FACE OF WOOD BLOCKING.
7. APPROVED FASTENER W/ BARBED STRESS PLATE @ 6" O.C.
8. HOT AIR WELD
9. TAPERED ISO INSULATION
10. 1 1/2" ISO INSULATION
11. STRAINER
12. CONC. ROOF DECK
13. PT 2x4 WOOD BLOCKING ANCHORED TO VENEER W/ S.S. FASTENERS @ 2'-0" O.C.



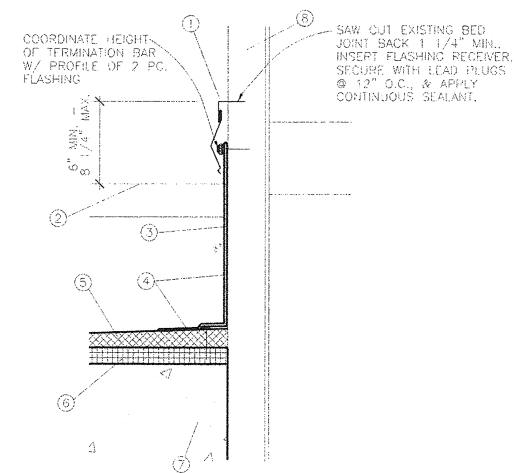
7 PARAPET DTL
SCALE: 1" = 1'-0"

1. 8" C.M.U. BOND BEAM
2. APPROVED FASTENER
3. 2-1/2" x 16" OPENING
4. FTR FLASHING HOT AIR WELDED TO FIBERGLAD METAL (NO SEALANT TO BE USED)
5. APPROVED FASTENER W/ BARBED STRESS PLATE @ 6" O.C.
6. HOT AIR WELD
7. FIBERGLAD METAL
8. 1 1/4" WIDE SCUPPER FLANGE
9. STEEL LINTEL



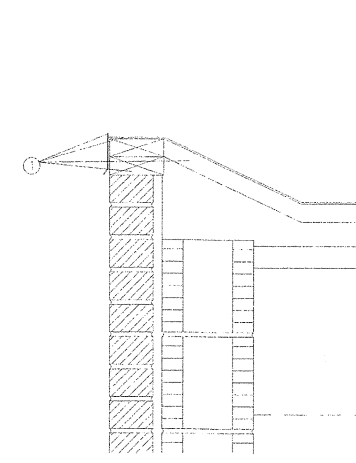
8 EMERGENCY SCUPPER
SCALE: 1" = 1'-0"

1. NEW 2 PIECE IN-WALL FLAT TYPE COUNTER FLASHING
- TOP/ PARAPET WALL BEYOND. TURN UP CAP FLASHING 4" UP UNDER 2 PIECE FLASHING & INSTALL SEALANT IN EXPOSED END OF 2 PIECE FLASHING.
- FTR #201 MASTIC
- ROOFING MEMBRANE
- TAPERED ISO INSULATION
- 1 1/2" ISO INSULATION
- NEW CONC. ROOF DECK
- EXISTING BRICK



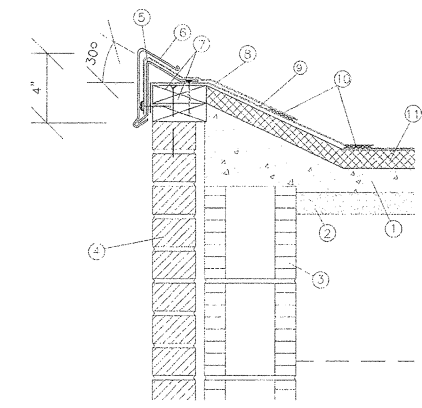
9 ROOF TO EXIST. BLDG. DTL
SCALE: 1" = 1'-0"

1. REMOVE EXISTING METAL FLASHING, ROOFING, ROOF INSULATION, AND WOOD BLOCKING IN THEIR ENTIRETY.



EXISTING CONDITIONS

1. EXIST. 2" CONC. TOPPING
2. EXIST. CONC. DOUBLE "T" ROOF DECK
3. EXIST. CMU WALL
4. EXIST. BRICK VENEER
- PIECE 1 OF 2 PIECE LOCKING .040 DARK BRONZE ALUMINUM FLASHING FABRICATED AS SHOWN AND ANCHORED TO WOOD BLOCKING W/ S.S. FASTENERS.
- PIECE 2 OF 2 PIECE LOCKING .040 DARK BRONZE ALUMINUM FLASHING FABRICATED AS SHOWN.
- NEW PT WOOD BLOCKING ANCHORED TO EXIST. BRICK W/ S.S. FASTENERS @ 2'-0" O.C. COUNTER SINK FASTENERS AS REQUIRED TO PROVIDE A LEVEL TOP SURFACE.
- FIRST LAYER OF NEW FTR MEMBRANE - EXTEND OVER ISO INSULATION AND WOOD BLOCKING AND ANCHOR TO WOOD BLOCKING.
- SECOND LAYER OF NEW FTR MEMBRANE - EXTEND OVER FACE OF PIECE 1 OF 2 PIECE FLASHING, AND ANCHOR TO WOOD BLOCKING.
- HOT AIR WELD
- NEW 1 1/2" ISO INSULATION



REROOFING CONDITIONS

10 REROOFING DTLs @ EXIST BLDG
SCALE: 1" = 1'-0"

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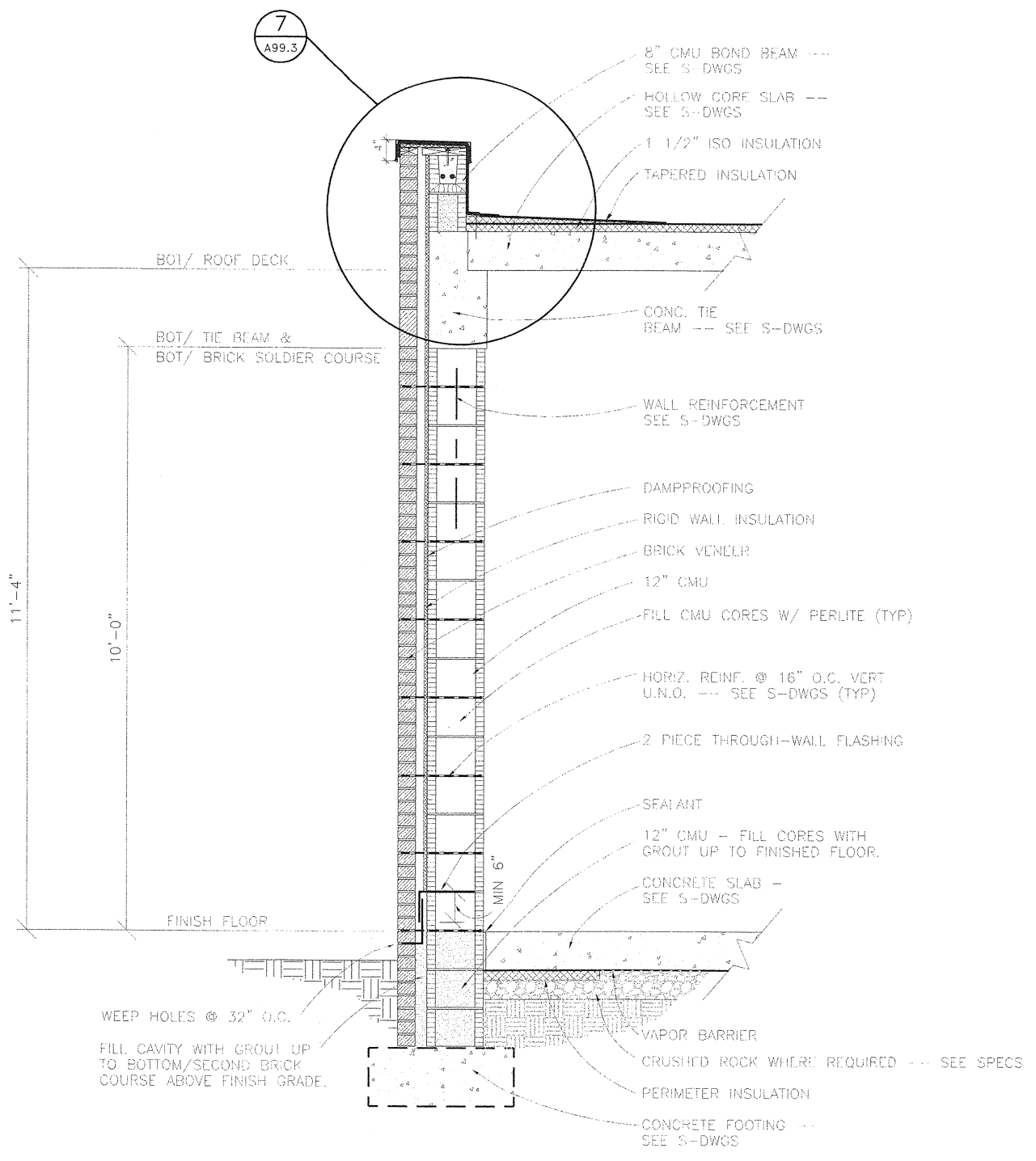


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

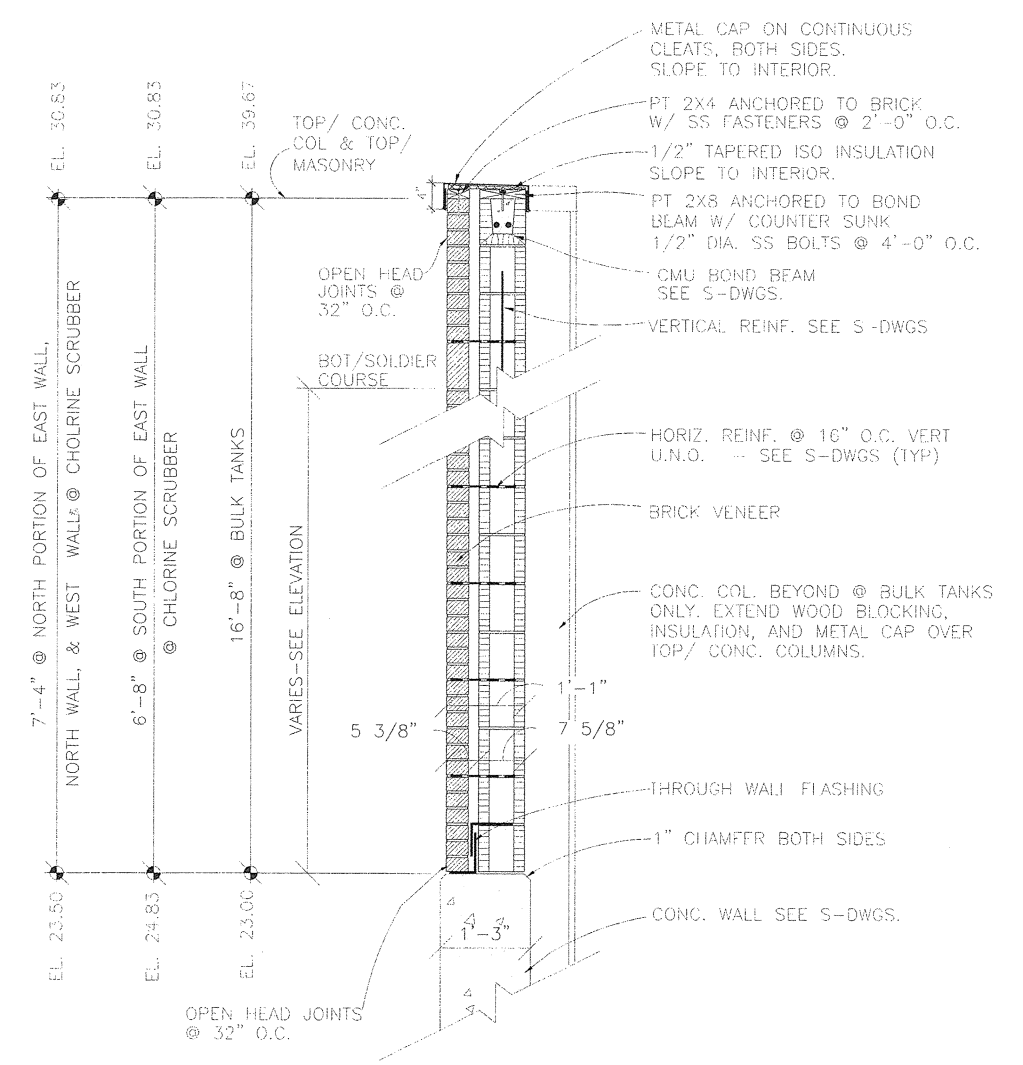
TYPICAL ROOFING
MEMBRANE DETAILS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A99.3 | 1 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

02/15/99



1
A99.4
TYPICAL WALL SECTION @ FILTER BUILDING
3/4" = 1'-0"



2
A99.4
TYPICAL WALL SECTION @ SCREEN WALLS
3/4" = 1'-0"

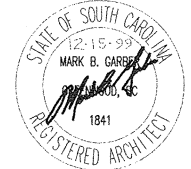
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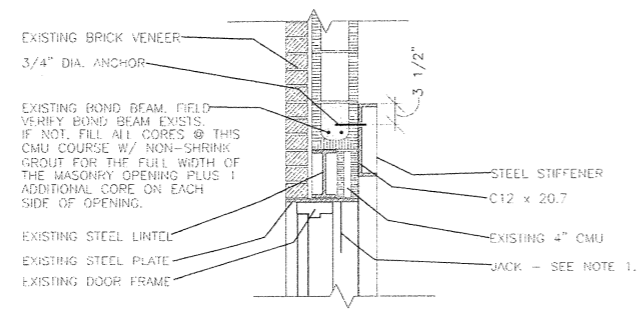


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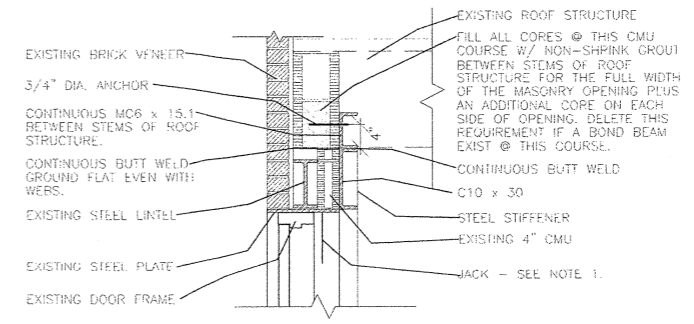


| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
|--|------------------|---------------------|-------|
| TYPICAL WALL SECTIONS | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A99.4 |
| DRAWN: JDM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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 12.15.99



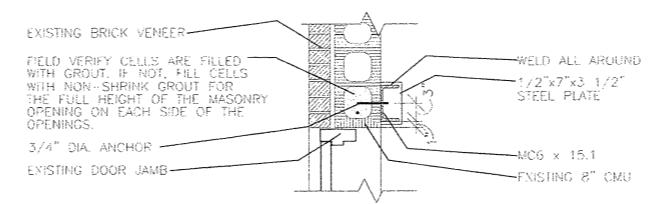
HEAD - DOOR A102



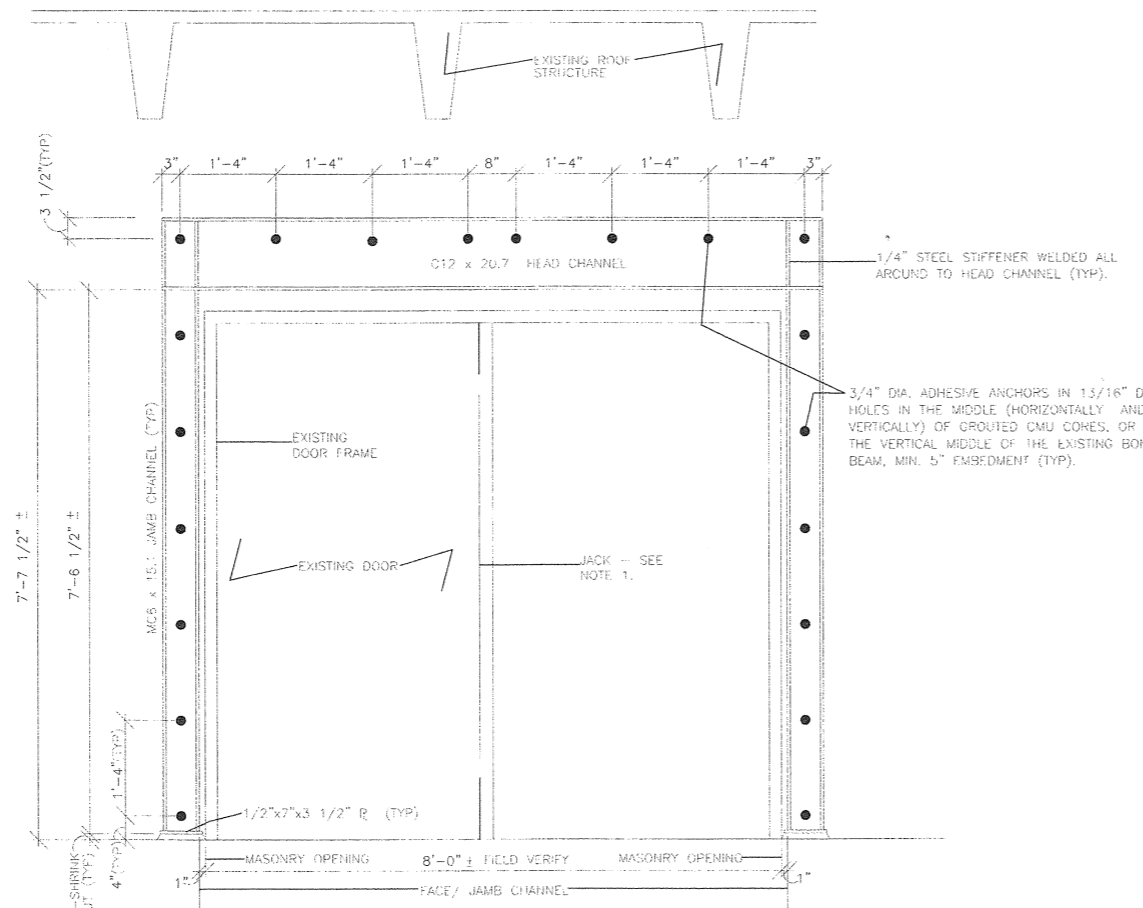
HEAD - DOOR A101

NOTES:

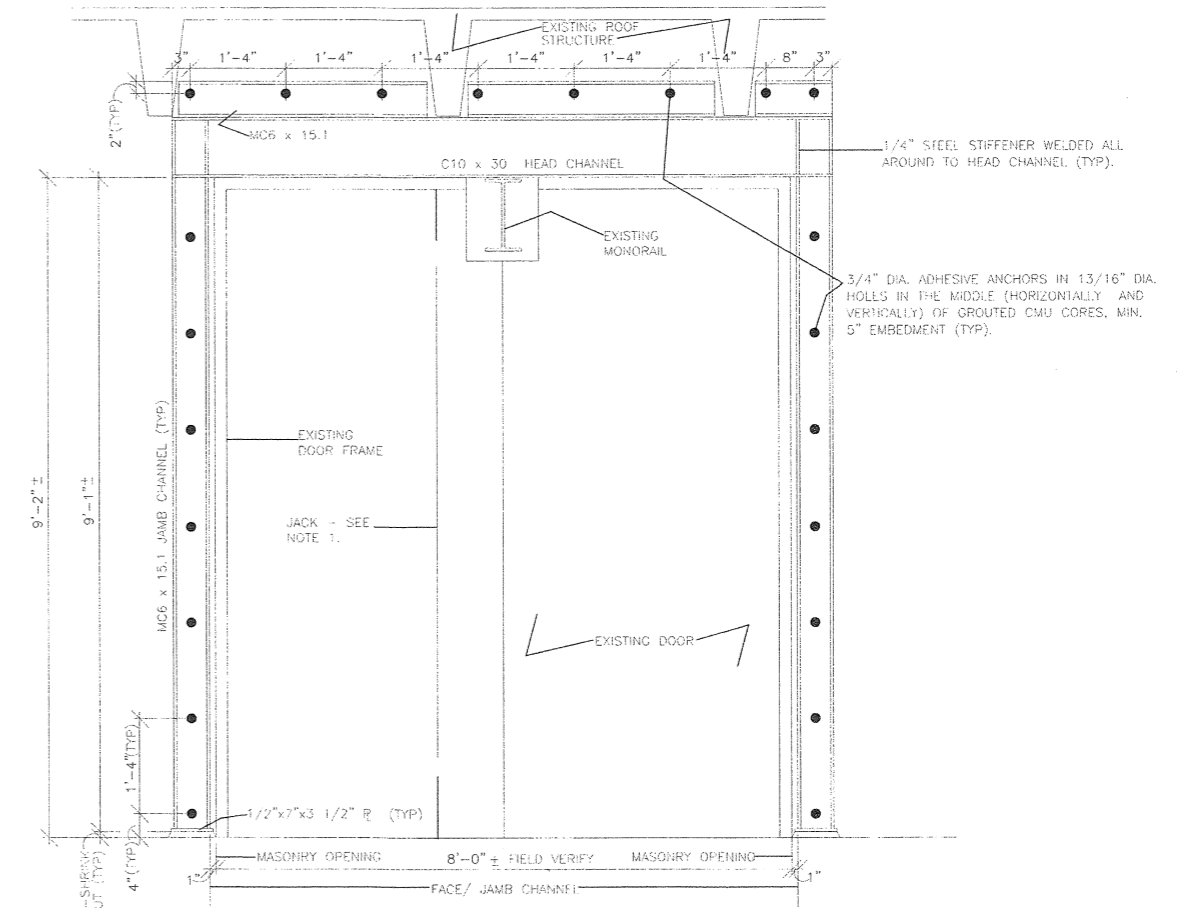
1. JACK UP EXISTING LINTEL 1/8" TO 3/16" BEYOND DESIRED LOCATION BEFORE ANCHORING FRAME ASSEMBLY TO MASONRY AND GROUTING BASE PLATE. ALLOW JACK TO REMAIN IN PLACE FOR 7 DAYS PRIOR TO REMOVAL.
2. AFTER JACK IS REMOVED, SEAL ALL CRACKS. INSTALL A NEW 4" WIDE SADDLE TYPE THRESHOLD IN A FULL BED OF SEALANT AT DOOR 19 AND ADJUST BOTH PAIRS OF DOORS TO OPERATE PROPERLY.



JAMB - DOORS A101 & A102

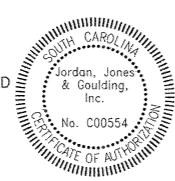


**DOOR A102 ELEVATION
VIEW FROM INSIDE** (1)
3/4" = 1'-0"



**DOOR A101 ELEVATION
VIEW FROM INSIDE** (2)
3/4" = 1'-0"

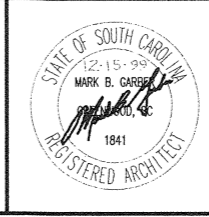
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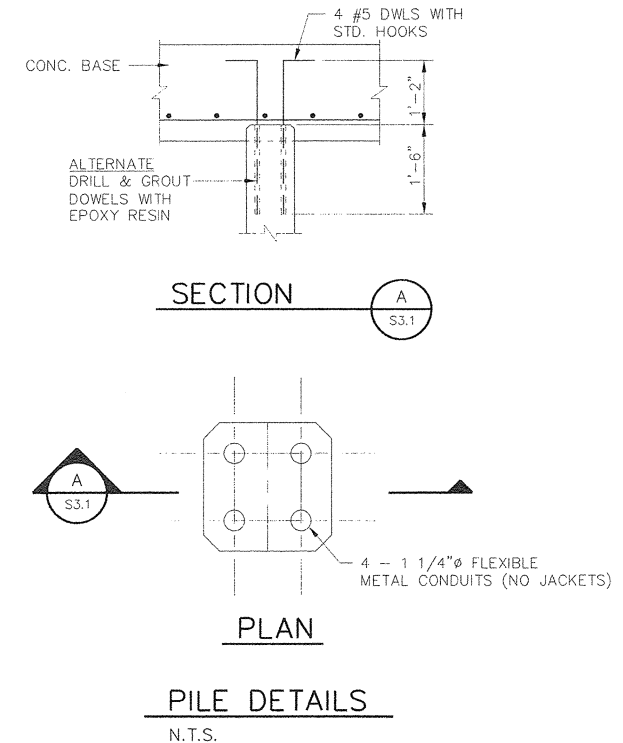
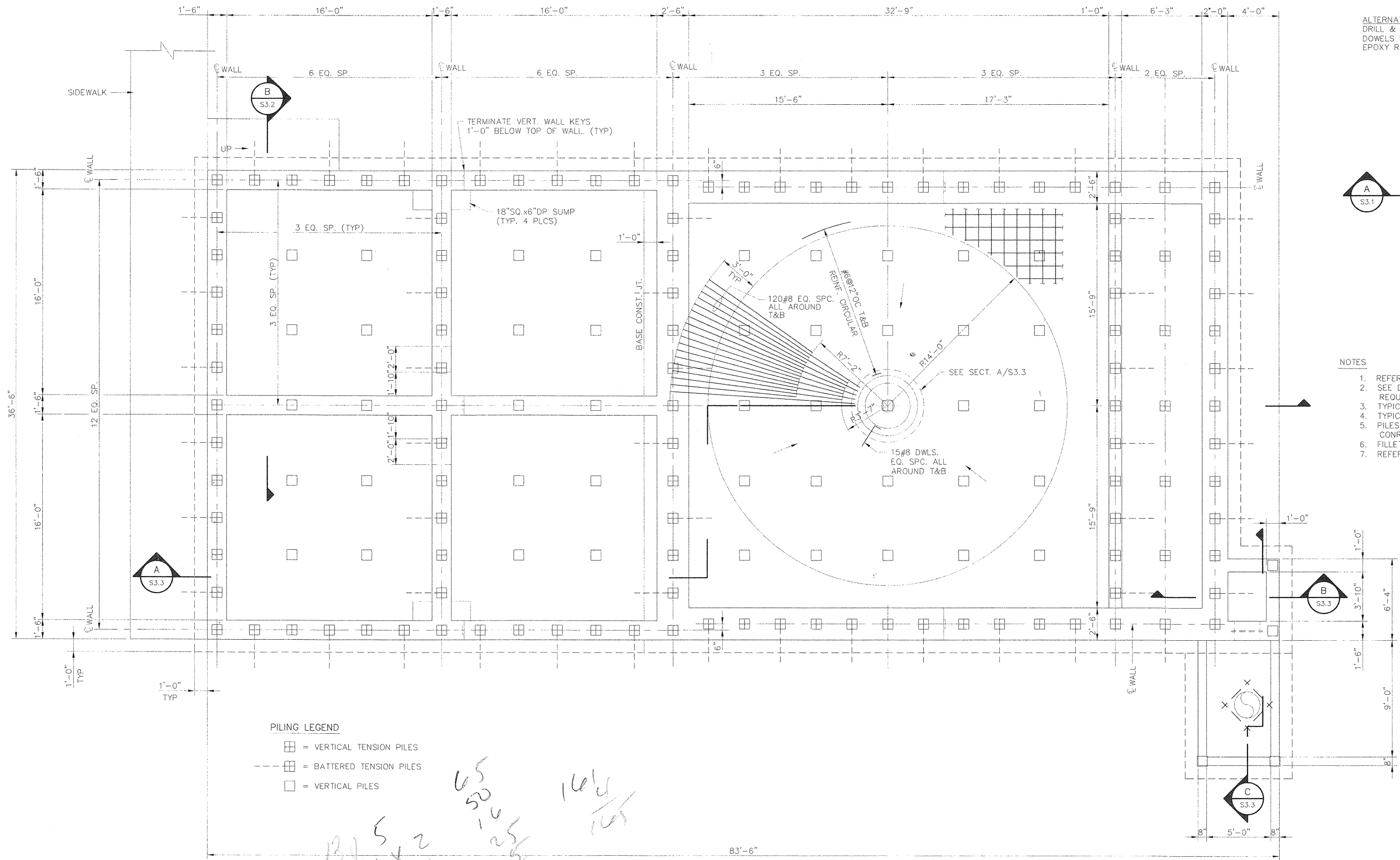


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| | | | |
|--|------------------|---------------------|-------|
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| EXISTING DOOR REPAIR DETAILS | | | |
| DESIGNED: MBG | CHECKED: | DATE: DECEMBER 1999 | A99.5 |
| DRAWN: JOM | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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12.15.99



- NOTES
1. REFER PILING SPECIFICATION.
 2. SEE DETAIL THIS DWG. FOR TENSION PILE ANCHORAGE REQUIREMENTS.
 3. TYPICAL PILE BATTER IS 1:6 (i.e., 1-HOR. TO 6 -VERT).
 4. TYPICAL PILE EMBEDMENT INTO BASE IS 4 INCHES.
 5. PILES ARE 12" SQ. 60 TONS PRECAST-PRESTRESSED CONCRETE PILES TYPICAL.
 6. FILLETS NOT SHOWN FOR CLARITY. REFER P-DWGS.
 7. REFER SHT. ST.1 FOR GENERAL NOTES

PILING LEGEND

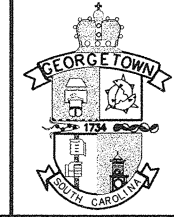
- = VERTICAL TENSION PILES
- = BATTERED TENSION PILES
- = VERTICAL PILES

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

NOTES:
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| NO. | DATE | DESCRIPTION OF REVISION |
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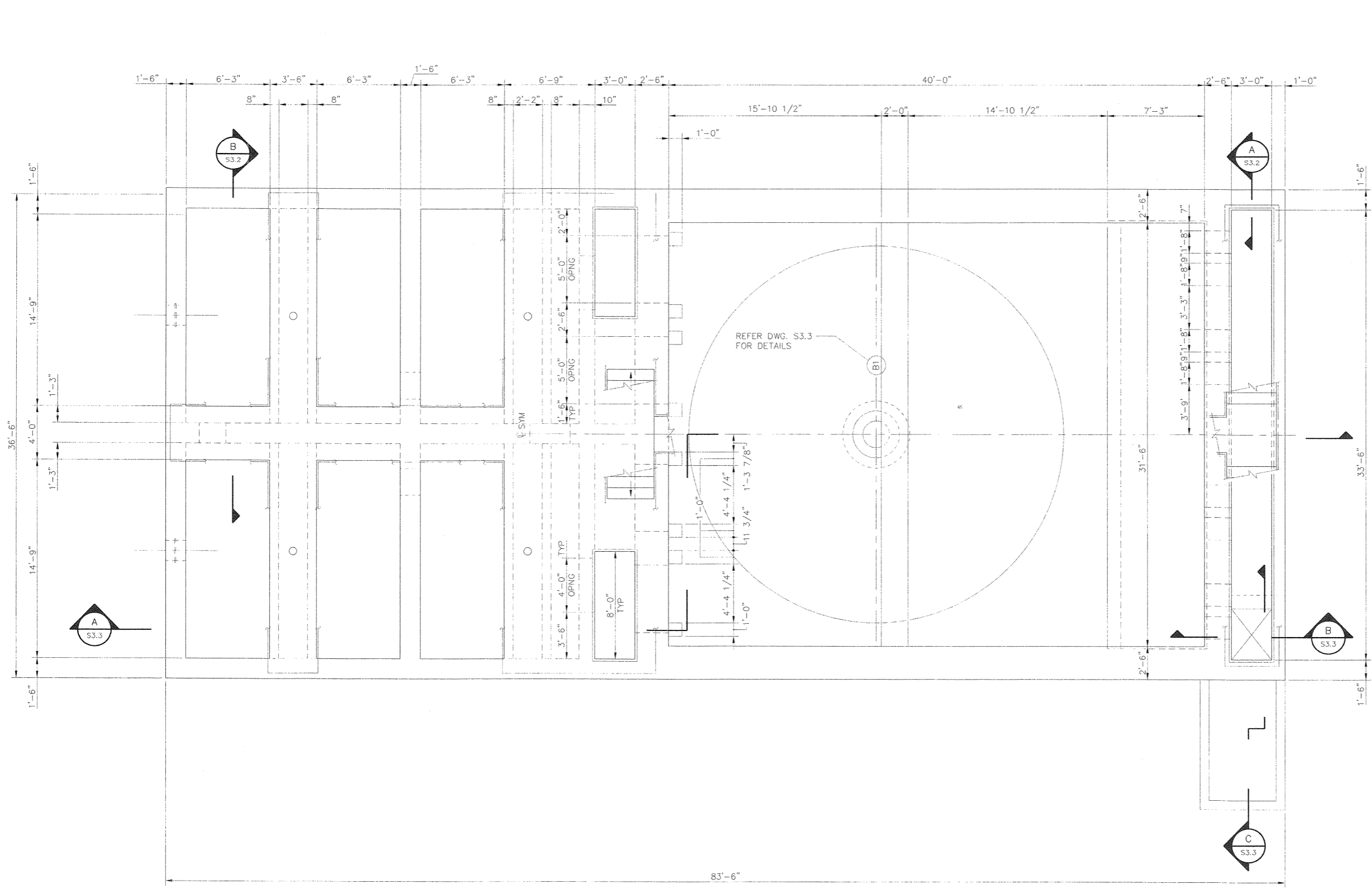
CITY OF GEORGETOWN
SOUTH CAROLINA



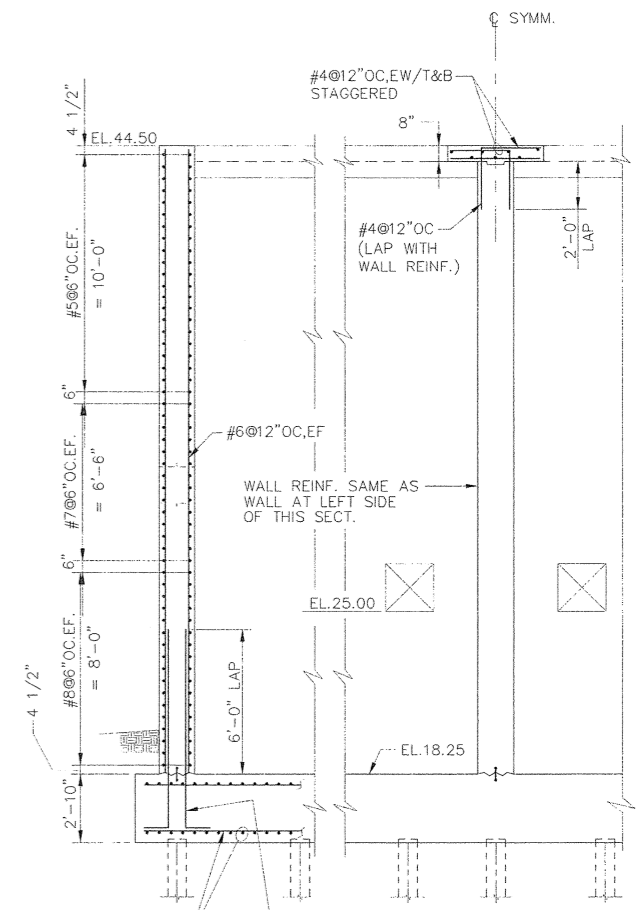
CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
**FLOCCULATION/SEDIMENTATION BASIN
BOTTOM PLAN**

| | | | | |
|--------------|------------------|--------------------|-------|-----|
| DESIGNED: WW | CHECKED: | DATE: NOVEMBER 200 | S3.1 | 1 |
| DRAWN: OS | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

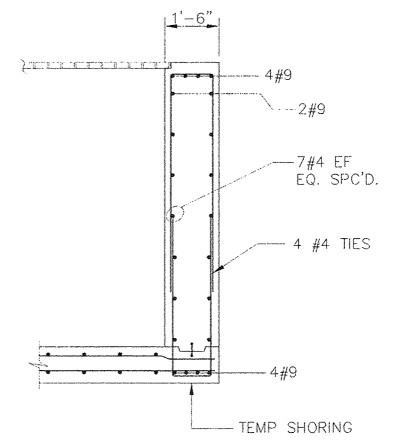
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TOP PLAN
1/4" = 1'-0"



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

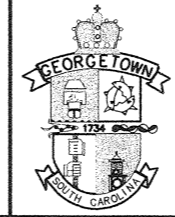


SECTION A
3/8" = 1'-0"

NOTES:
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| 0 | 12-15-99 | INITIAL ISSUE |



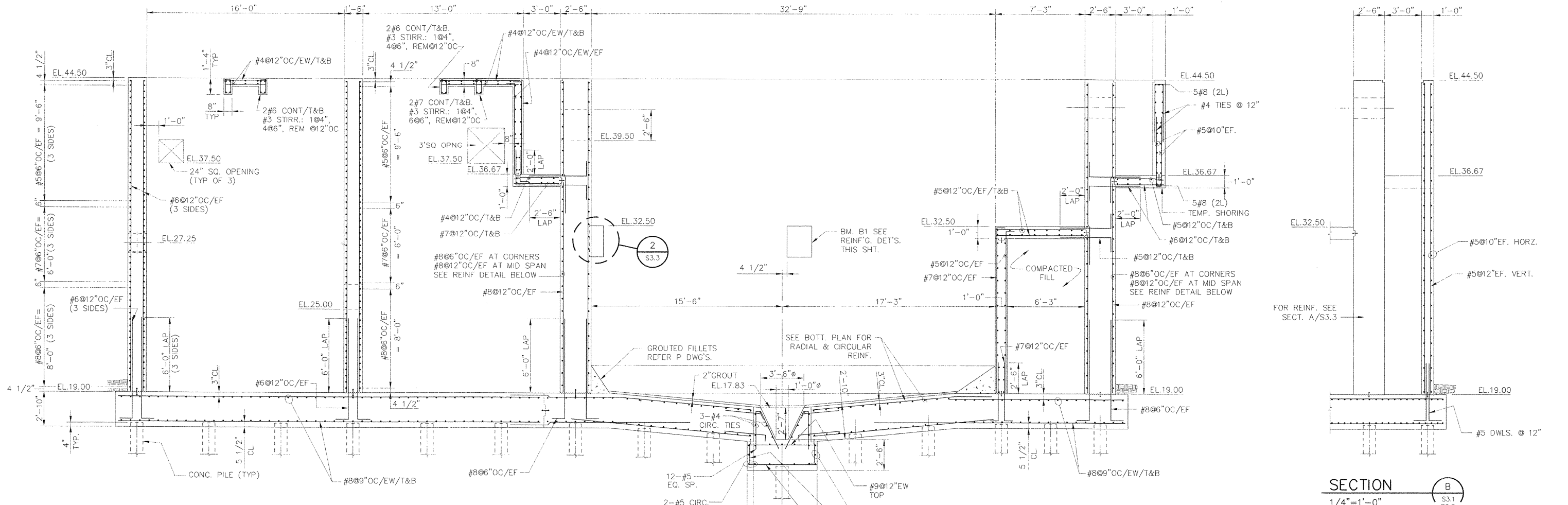
CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
FLOCCULATION/SEDIMENTATION BASIN
TOP PLAN

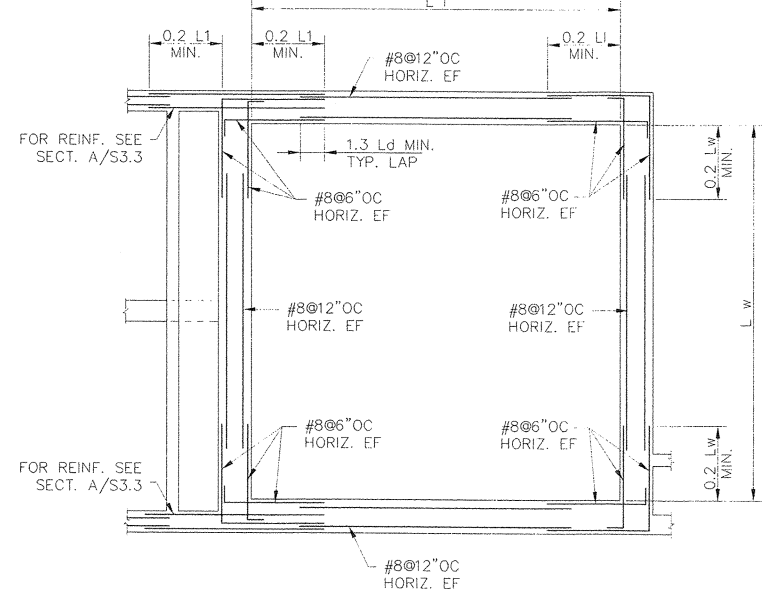
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| DESIGNED: WW | CHECKED: | DATE: NOVEMBER 2000 | S3.2 | 1 |
| DRAWN: OS | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

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02.13.02

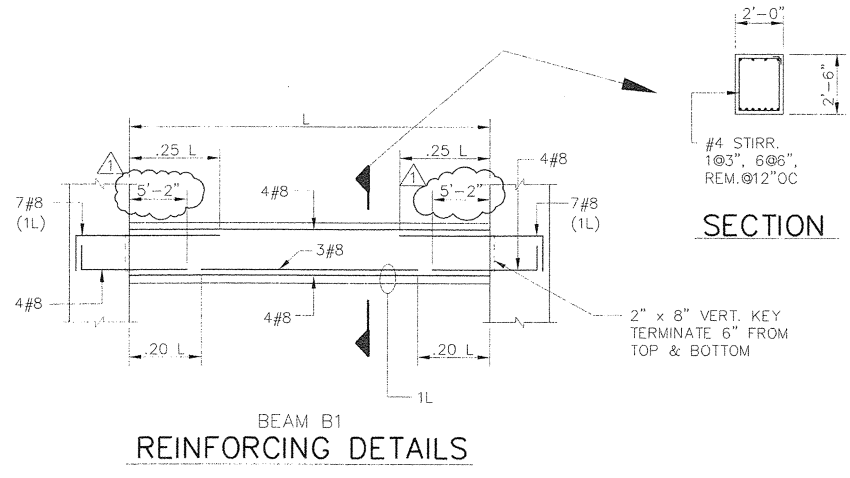


SECTION B
1/4"=1'-0" S3.1 S3.2

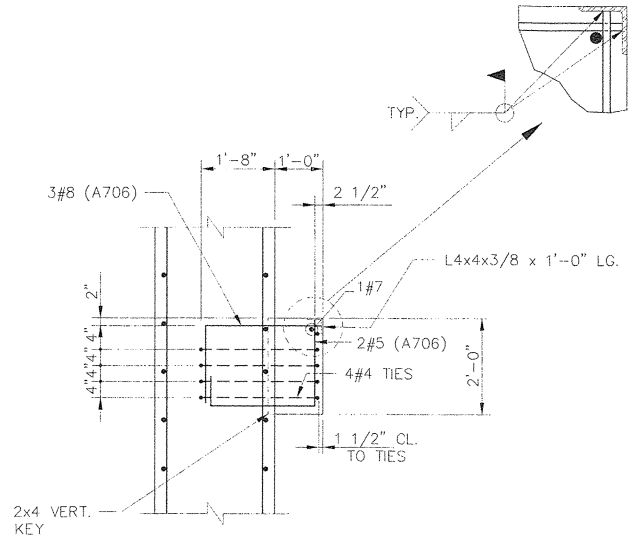
SECTION A
1/4"=1'-0" S3.1 S3.2



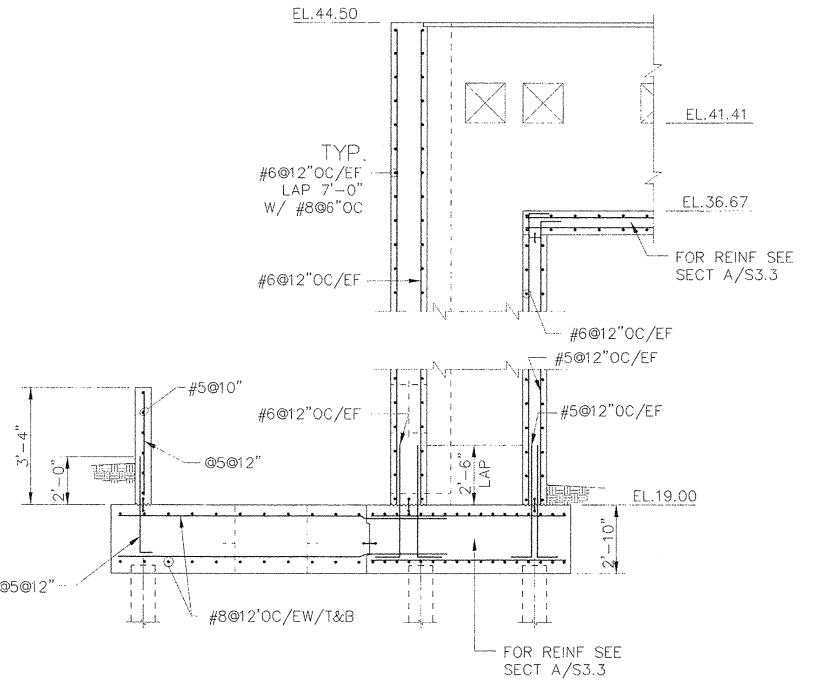
HORIZONTAL WALL REINFORCING DETAILS FOR SETTLING BASIN
N.T.S.



BEAM B1 REINFORCING DETAILS

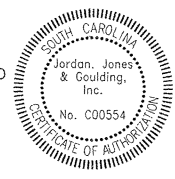


DETAIL 2
N.T.S. S3.3

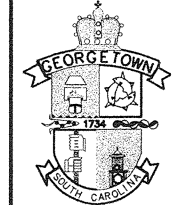


SECTION C
1/4"=1'-0" S3.1 S3.2

NOTES:
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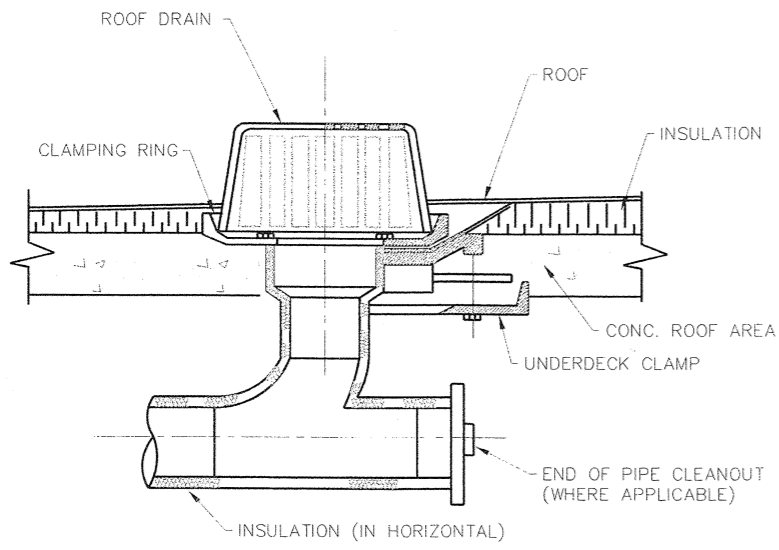
**CITY OF GEORGETOWN
SOUTH CAROLINA**



**CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
FLOCCULATION / SEDIMENTATION BASIN
SECTIONS AND DETAILS**

| | | | | |
|--------------|------------------|--------------------|-------|-----|
| DESIGNED: WW | CHECKED: | DATE: NOVEMBER 200 | S3.3 | 1 |
| DRAWN: OS | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

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02.13.02

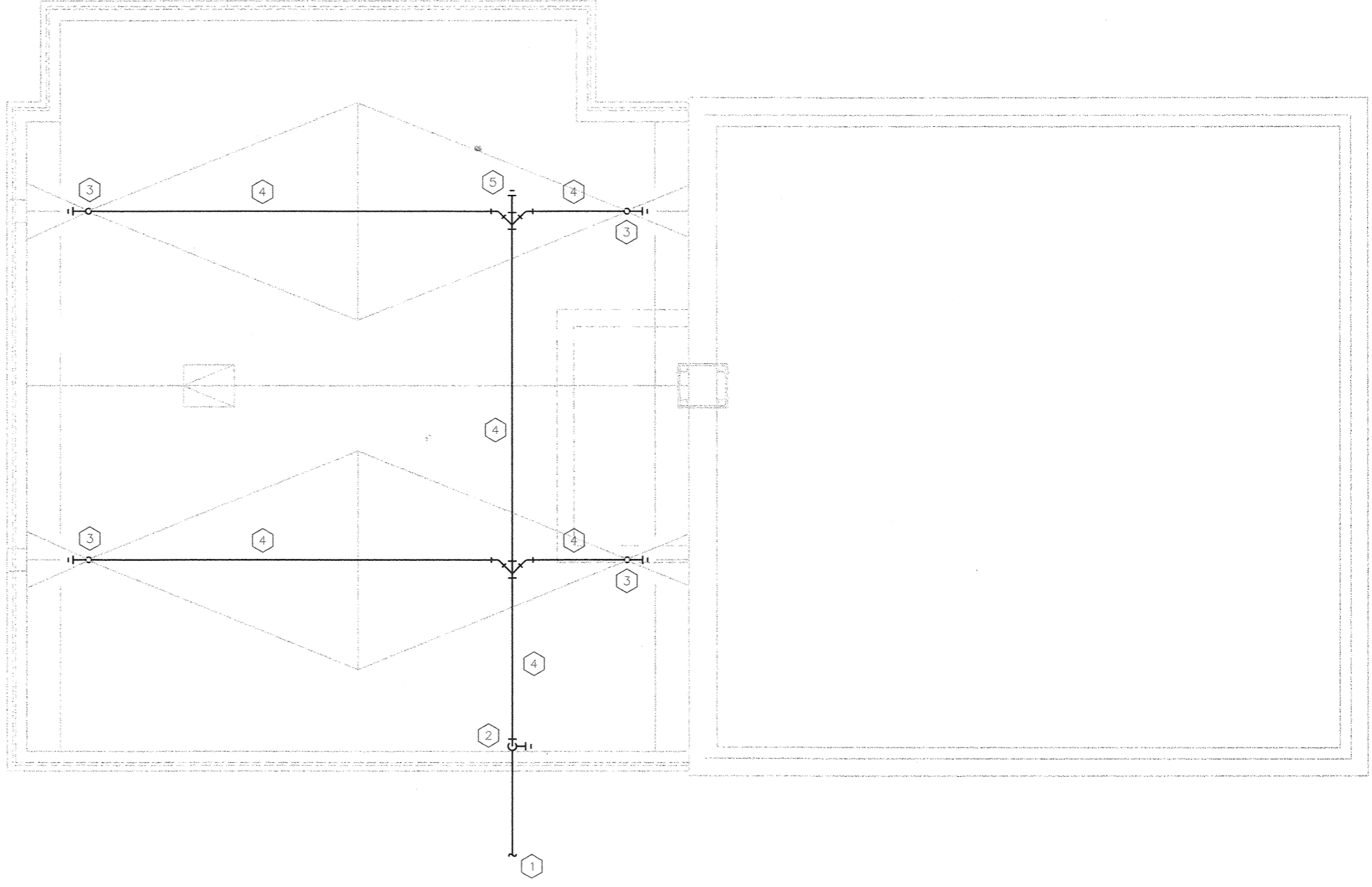


NOTE:
INTERIOR PIPE SHALL BE SCHEDULE 40 PVC PIPE

ROOF DRAIN
NTS

PLUMBING LEGEND NOTES: (THIS SHEET ONLY)

- ① 6" STORMWATER PIPE BELOW GRADE, INVERT ELEV. = 22.42 ± REFER TO CIVIL DRAWING FOR CONTINUATION.
- ② 4" RAINWATER DOWNSPOUT; PROVIDE CLEANOUT @ BASE OF RISER. MOUNT CLEANOUT MINIMUM 24" ABOVE FINISHED FLOOR.
- ③ 3" ROOF DRAIN (RD-1), REFER TO THE SPECIFICATIONS; REFER TO THE DETAIL 1/M4.2 (THIS SHEET).
- ④ 4" RAINLEADER, ROUTE PIPE TIGHT TO STRUCTURE @ 1% SLOPE.
- ⑤ END OF PIPE CLEANOUT, REFER TO THE SPECIFICATIONS, (TYPICAL 5).

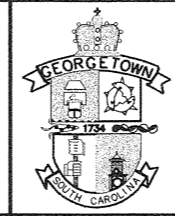


ROOF PLAN
1/4" = 1'-0"

NOTES:
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CITY OF GEORGETOWN
SOUTH CAROLINA

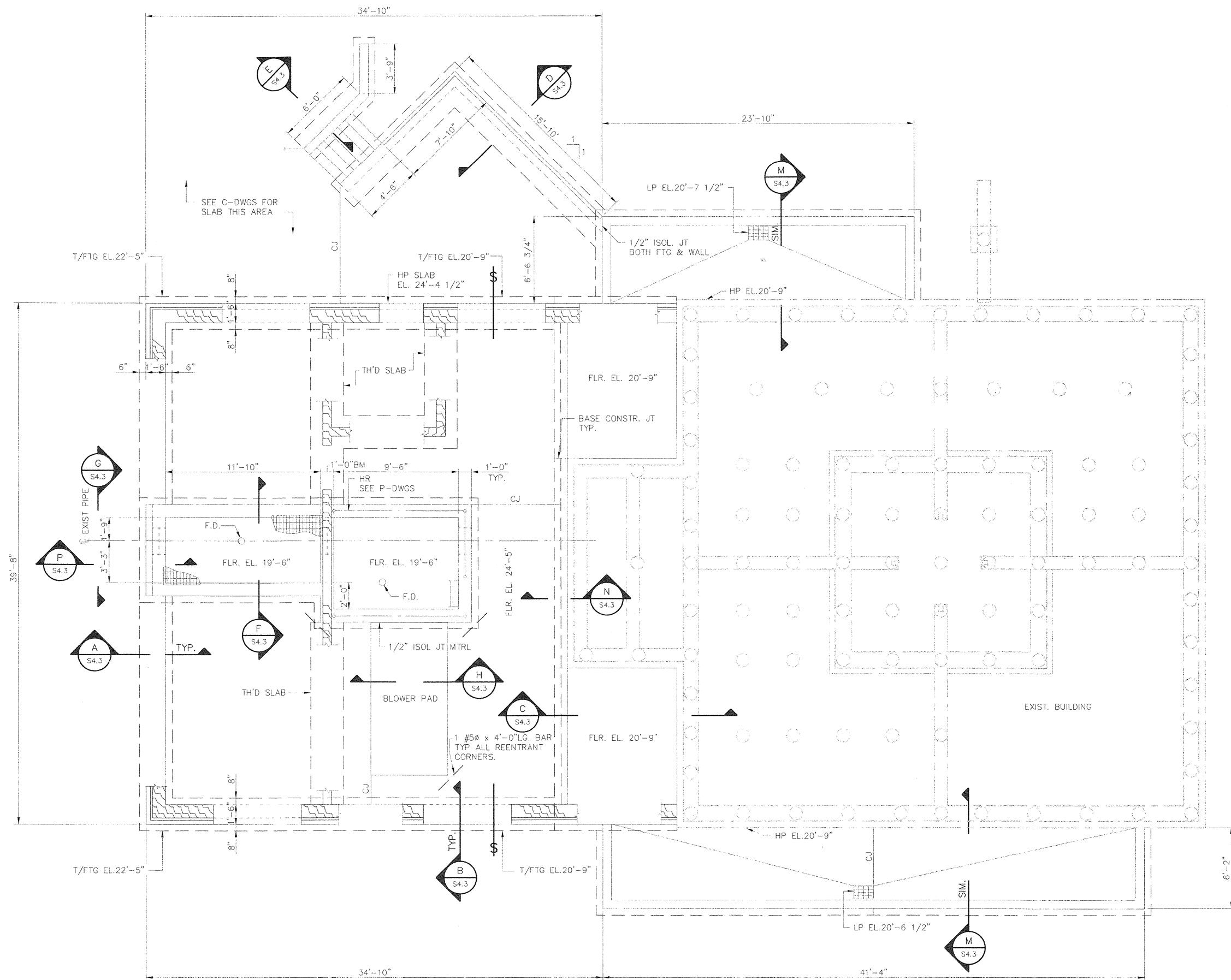


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

FILTER BUILDING MODIFICATIONS
ROOF PLAN - PLUMBING

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: LWP | CHECKED: | DATE: NOVEMBER 2000 | M4.2 | 1 |
| DRAWN: LWP | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

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02.11.02



13 x 3 39
~~12 x 4~~
 7 x 7 49
 9 x 2 18
 10 30
 10
 10 136

- NOTES:
1. MIN. REQUIRED SOIL BEARING CAPACITY = 2500 PSF
 2. 6" THICK SOG REINF'D WITH #4@12"/EW 2" DOWN FROM TOP UNLESS NOTED OTHERWISE.

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

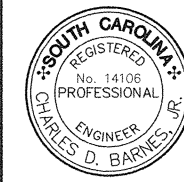
NOTES:
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| 1 | 08-02-01 | RECORD DRAWING |
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CITY OF GEORGETOWN
SOUTH CAROLINA

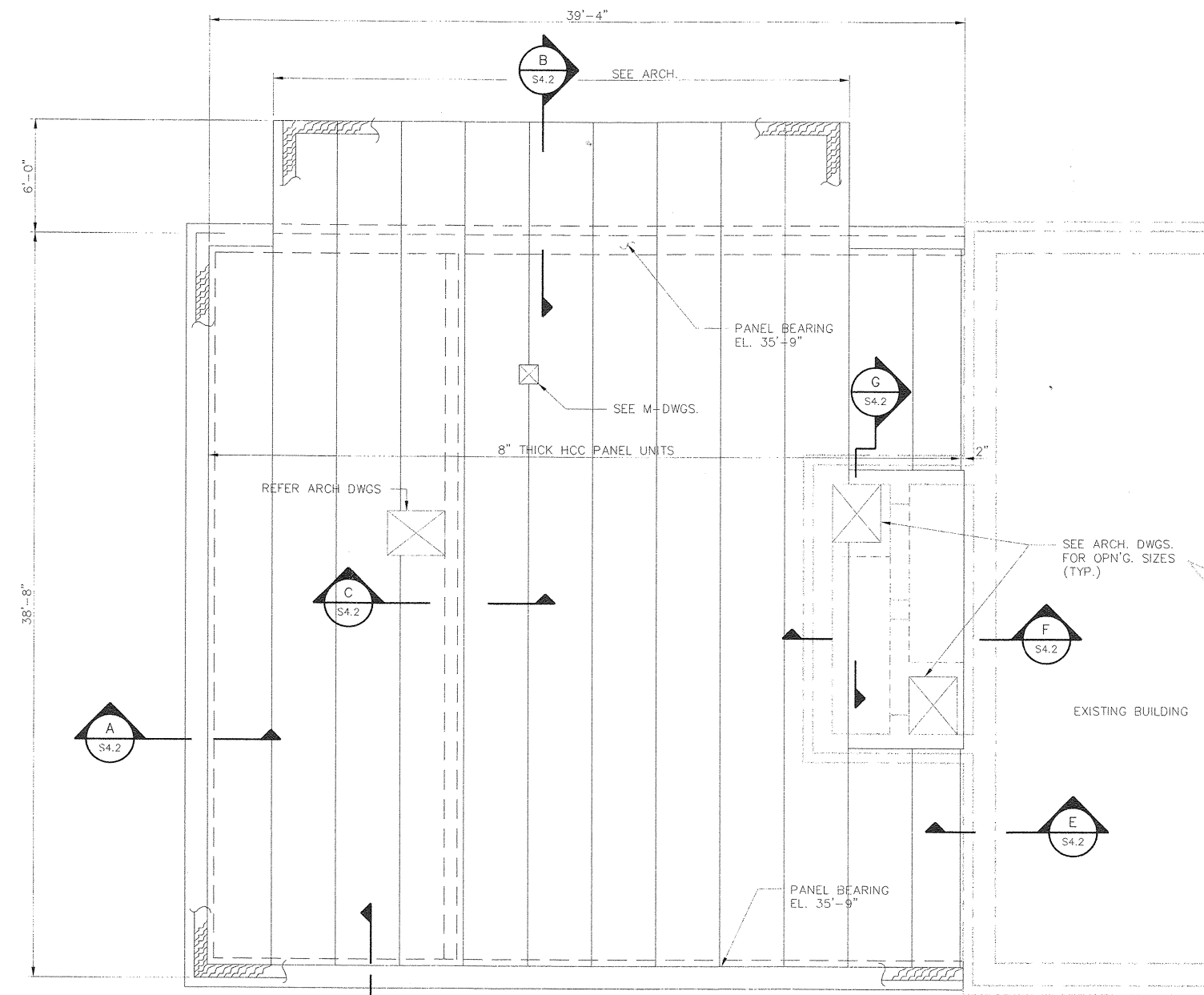


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

FILTER BUILDING MODIFICATIONS
FLOOR AND FOUNDATION PLAN

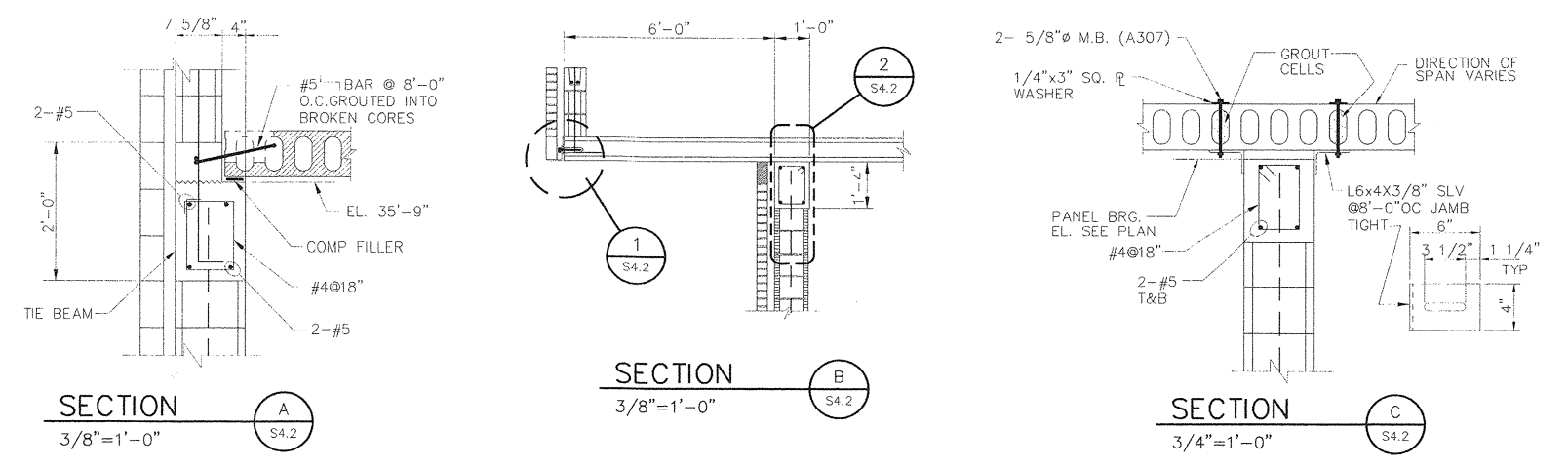
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|----------------|------------------|---------------------|-------|-----|
| DESIGNED: W.W. | CHECKED: | DATE: NOVEMBER 2001 | S4.1 | 1 |
| DRAWN: TA/OS | JOB NO. 2193.006 | SCALE: 1/4"=1'-0" | SHEET | REV |

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02.13.02



NOTES:
 1. ROOF LOADING
 DL (SUPERIMPOSED) 5 PSF
 LL 20 PSF
 PONDING 12 PSF

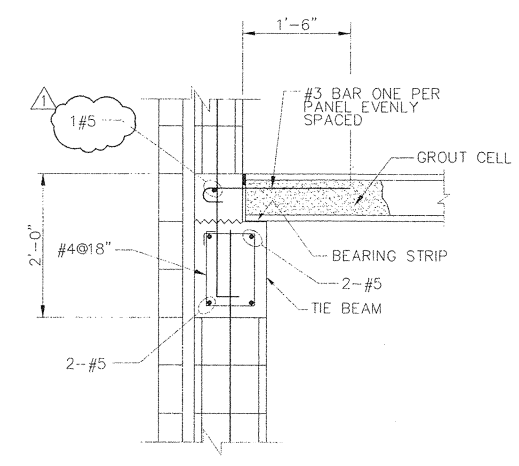
ROOF PLAN
 1/4" = 1'-0"



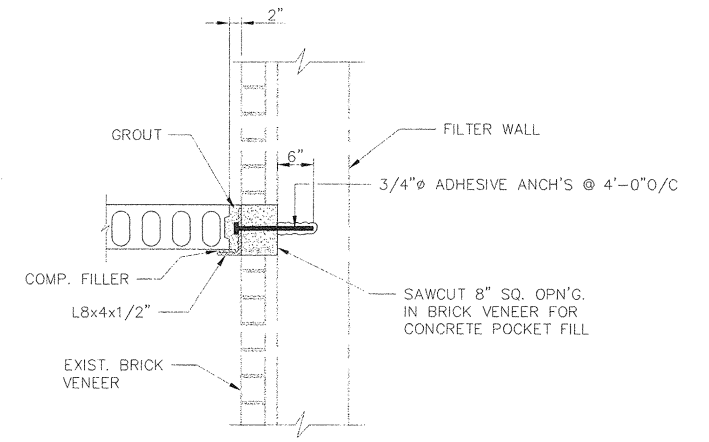
SECTION A
 3/8" = 1'-0"

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

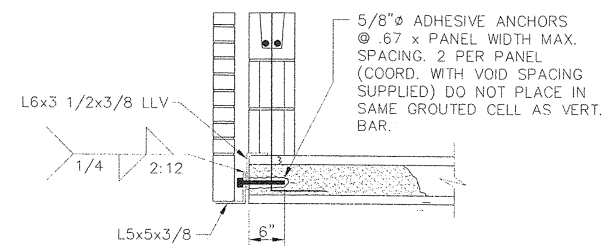
SECTION C
 3/4" = 1'-0"



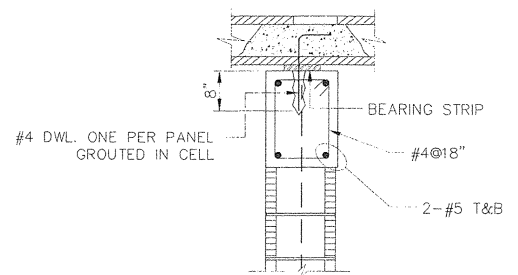
SECTION D
 3/4" = 1'-0"



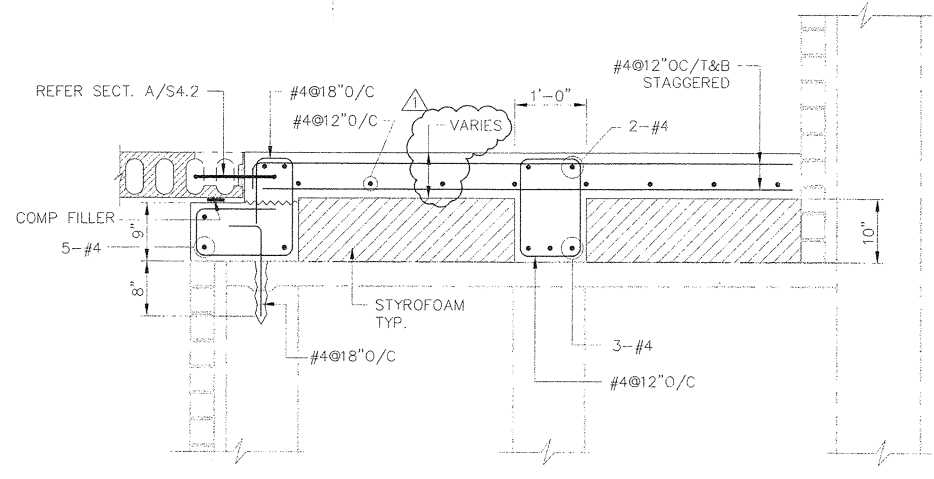
SECTION E
 3/4" = 1'-0"



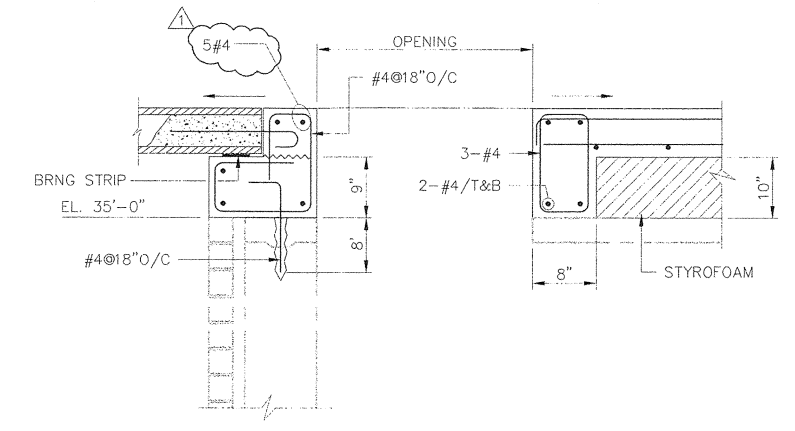
DETAIL 1
 3/4" = 1'-0"



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



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

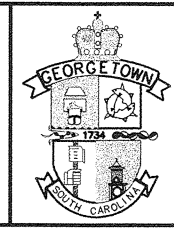


SECTION G
 3/4" = 1'-0"

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 SOUTH CAROLINA

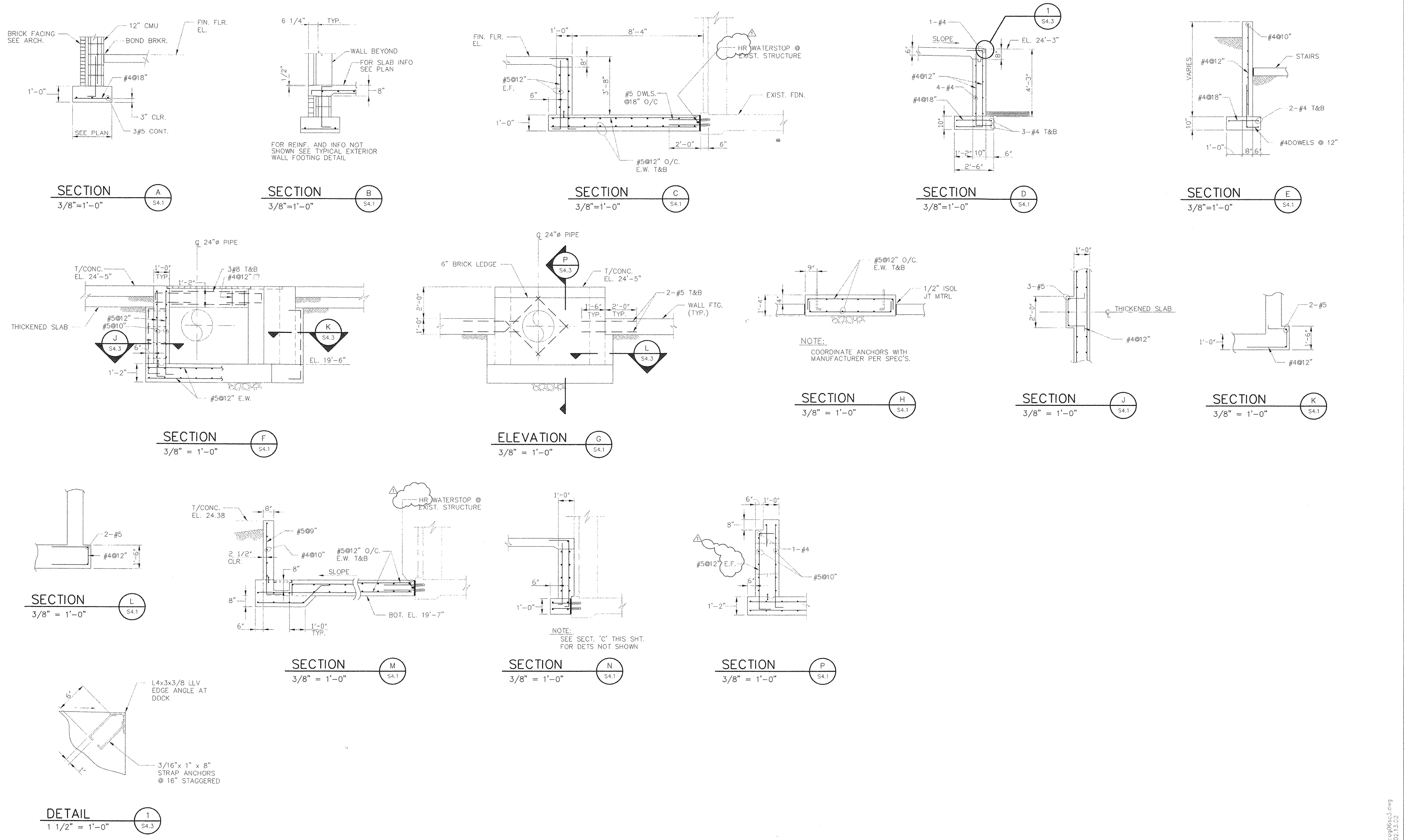


CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS

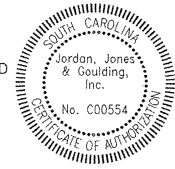
FILTER BUILDING MODIFICATIONS
 ROOF PLAN

| | | | | |
|----------------|------------------|---------------------|-------|-----|
| DESIGNED: W.W. | CHECKED: | DATE: NOVEMBER 2000 | S4.2 | 1 |
| DRAWN: TS/OS | JOB NO. 2193.006 | SCALE: 1/4" = 1'-0" | SHEET | REV |

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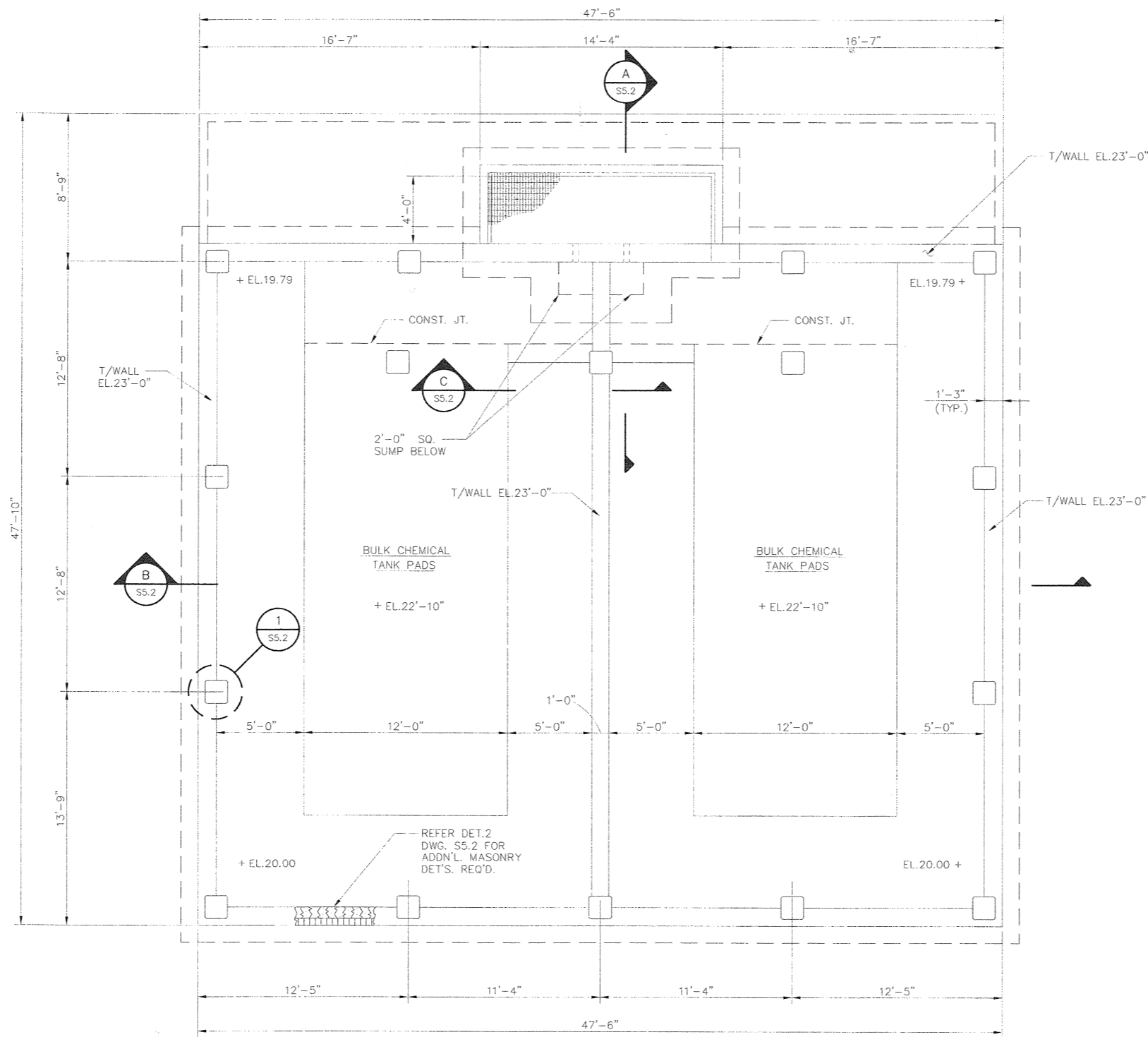


CITY OF GEORGETOWN
 SOUTH CAROLINA



| | | | |
|--|------------------|---------------------|-------|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| FILTER BUILDING SECTIONS SECTIONS AND DETAILS | | | |
| DESIGNED: W.W. | CHECKED: | DATE: NOVEMBER 2000 | S4.3 |
| DRAWN: T.A. | JOB NO. 2193.006 | SCALE: 3/8" = 1'-0" | 1 REV |

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PLAN
1/4"=1'-0"

- NOTES:
1. REFER P-DWG'S. FOR PIPE PENETRATIONS NOT SHOWN.
 2. T/CONC. COL EL. 39'-8" TYP.
 3. REFER A-DWG'S. FOR ADDITIONAL DETAILS.
 4. MIN. REQD. SOIL BEARING CAPACITY = 2500 PSF.

NOTES:
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CITY OF GEORGETOWN
SOUTH CAROLINA

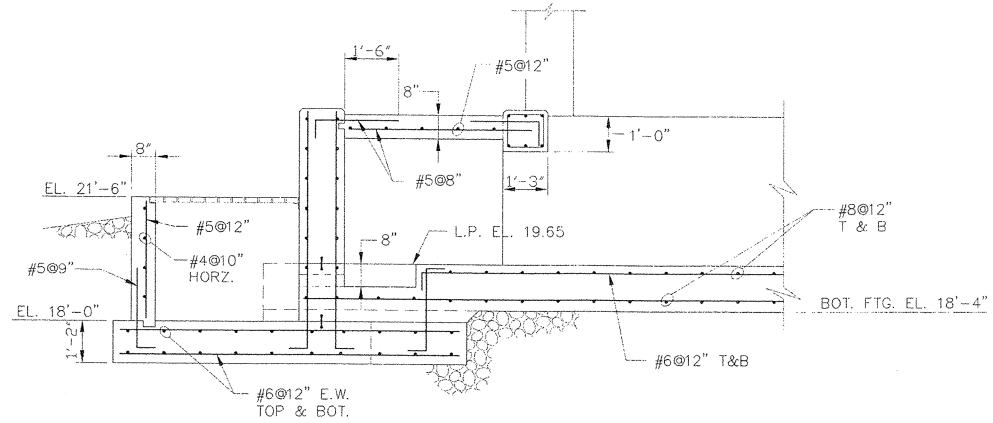


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

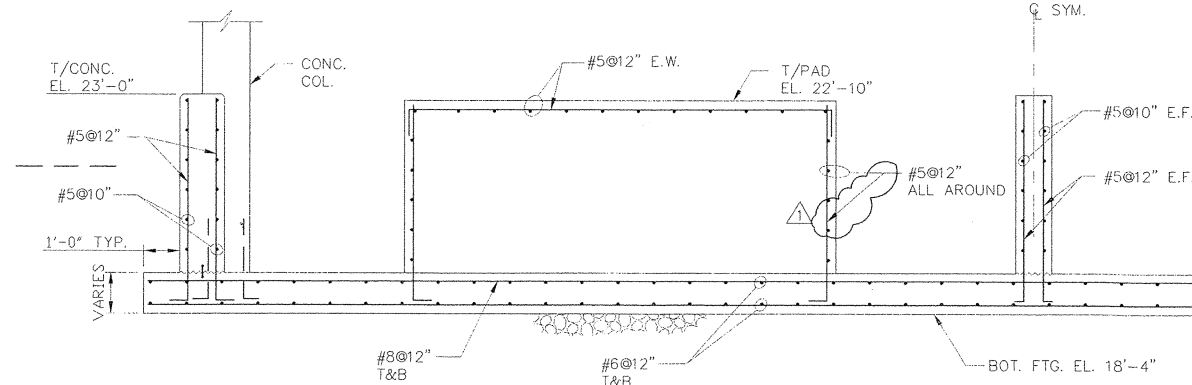
FERRIC CHLORIDE AND CAUSTIC
BULK TANKS

| | | | | |
|--------------|------------------|---------------------|-------|-----|
| DESIGNED: | CHECKED: | DATE: NOVEMBER 2009 | S5.1 | 1 |
| DRAWN: ASKEW | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

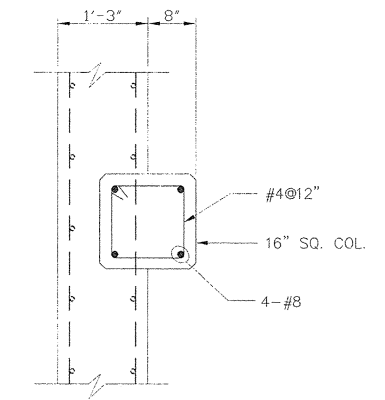
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02.13.02



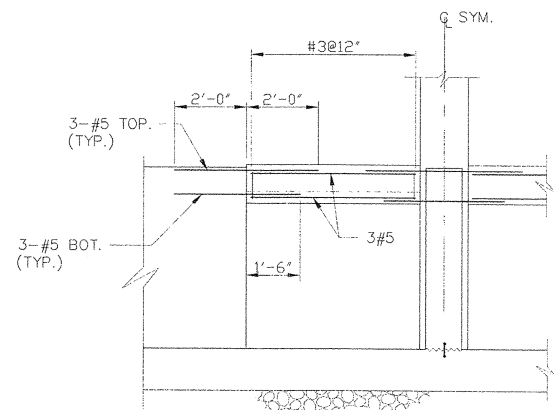
SECTION A
3/8" = 1'-0"
SS.1



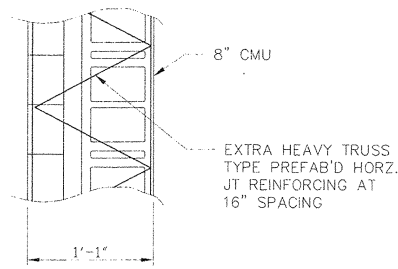
SECTION B
3/8" = 1'-0"
SS.1



DETAIL 1
3/4" = 1'-0"
SS.1



SECTION C
3/8" = 1'-0"
SS.1



DETAIL 2
N.T.S.
SS.1

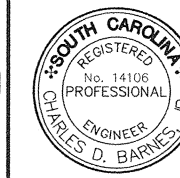
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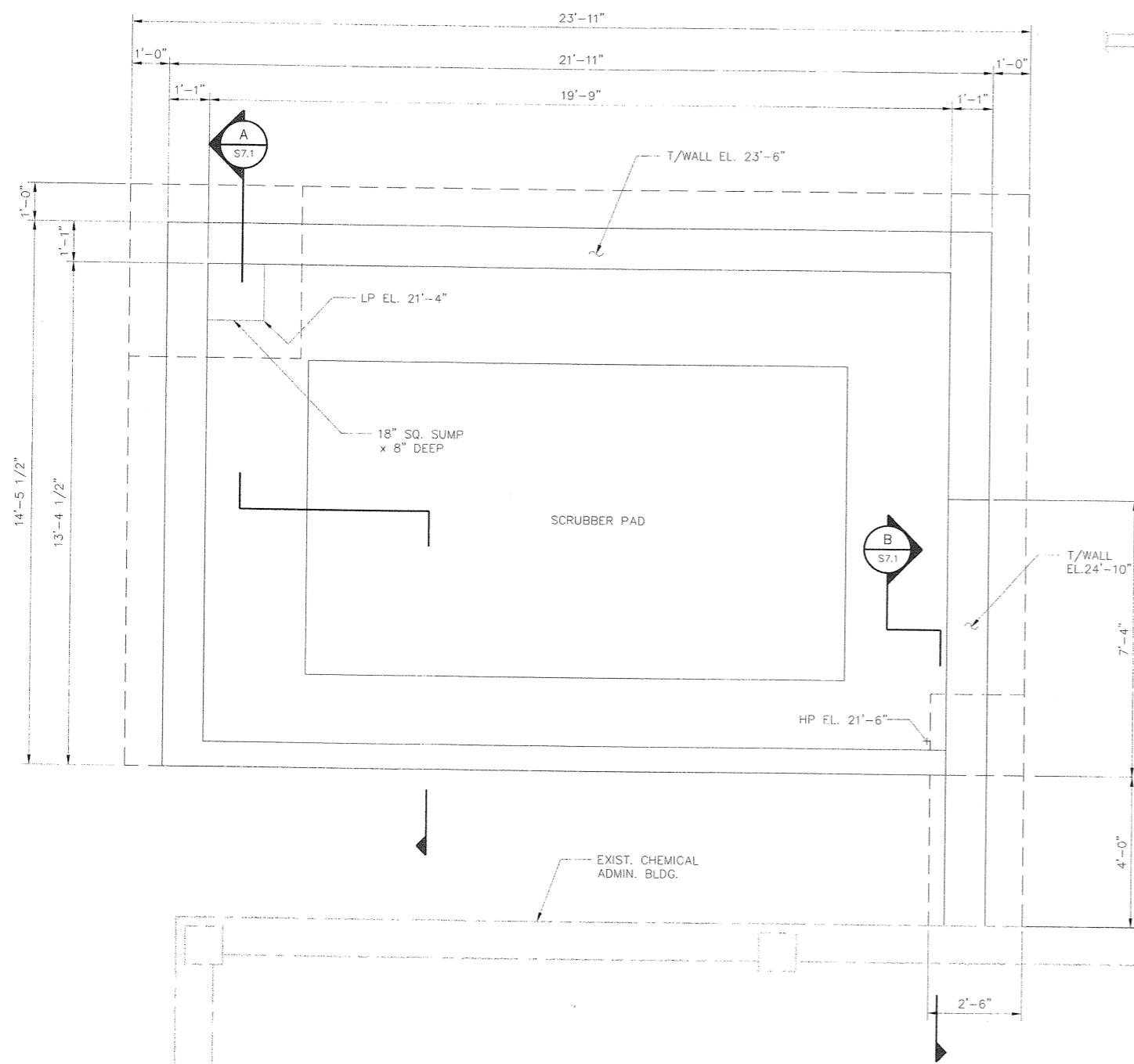
CITY OF GEORGETOWN
SOUTH CAROLINA



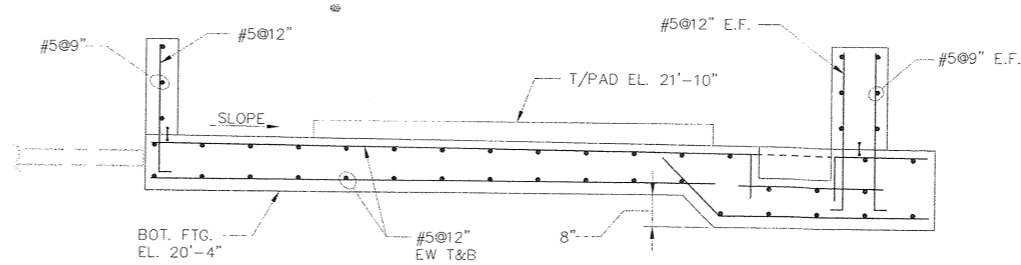
CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

FERRIC CHLORIDE AND CAUSTIC BULK TANKS
SECTIONS AND DETAILS

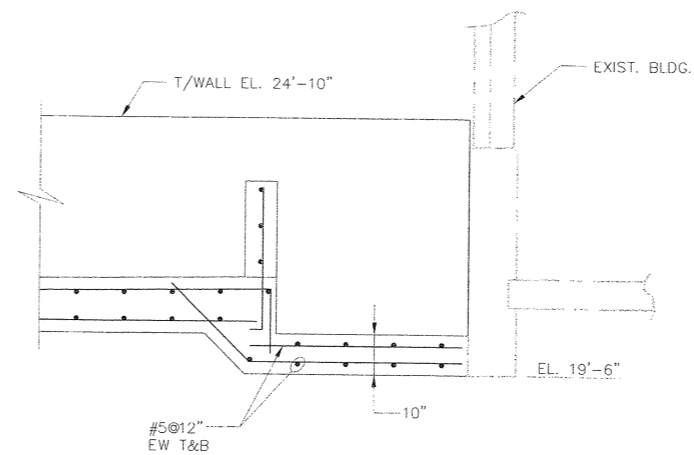
| | | | | |
|----------------|------------------|---------------------|-------|-----|
| DESIGNED: W.W. | CHECKED: | DATE: NOVEMBER 2000 | S5.2 | 1 |
| DRAWN: T.A. | JOB NO. 2193.006 | SCALE: 3/8" = 1'-0" | SHEET | REV |



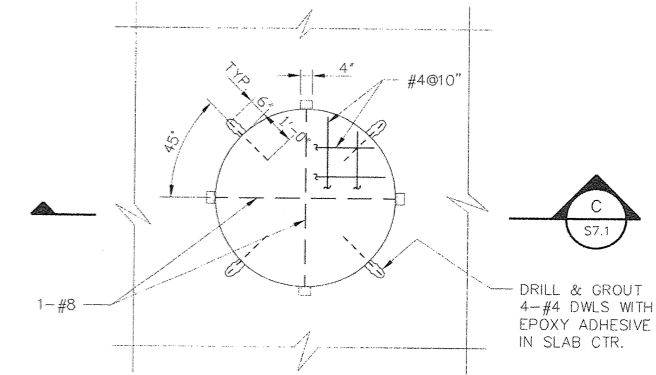
PLAN
1/2" = 1'-0"



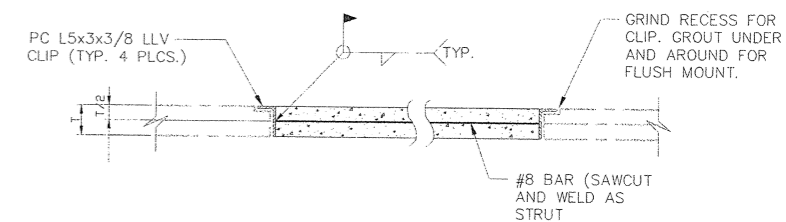
SECTION A
1/2" = 1'-0"



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



PLAN
CHEMICAL BLDG. HOLE PATCH DETAIL
3/8" = 1'-0" (REFER DWG. P2.2)



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

NOTES:
1. MIN. REQUIRED SOIL BEARING CAPACITY = 2500 PSF.

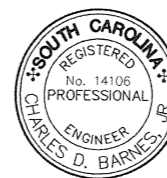
NOTES:
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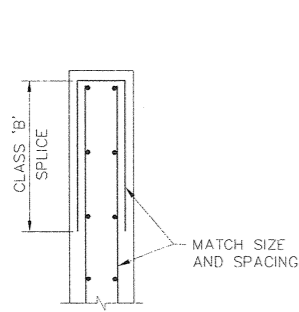
CITY OF GEORGETOWN
SOUTH CAROLINA



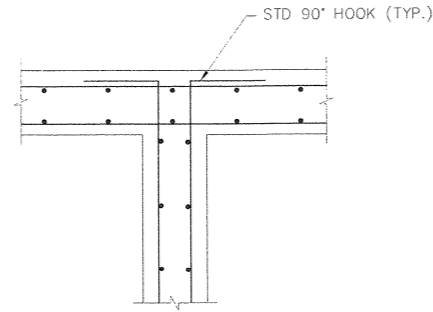
CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
SCRUBBER CONTAINMENT STRUCTURE
PLAN AND SECTION

| | | | | |
|--------------|------------------|---------------------|-------|-----|
| DESIGNED: WW | CHECKED: | DATE: NOVEMBER 2000 | S7.1 | 1 |
| DRAWN: OS | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

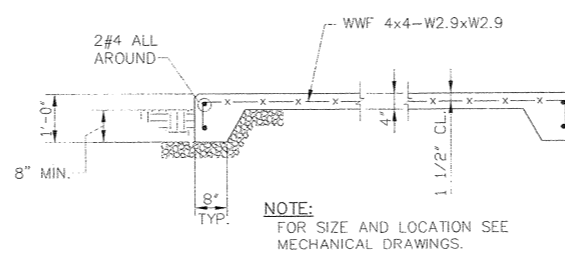
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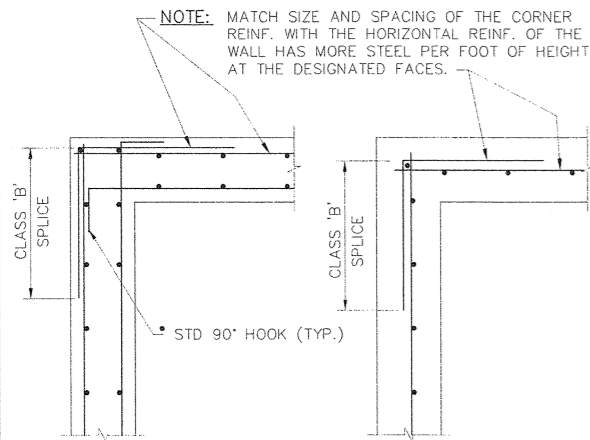
TYPICAL WALL END DETAIL
N.T.S.



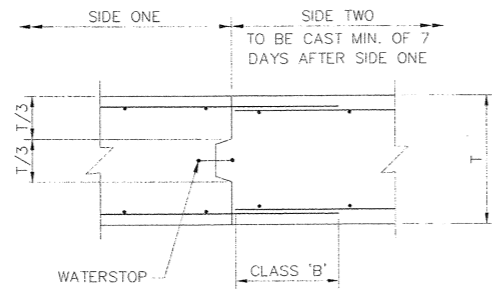
TYPICAL WALL INTERSECTION DETAIL
N.T.S.



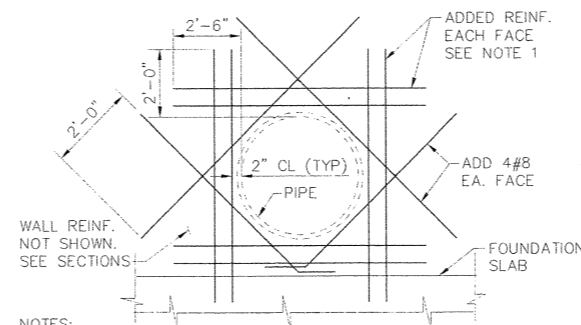
**MISCELLANEOUS EQUIPMENT
PAD EXTERIOR**
1/2" = 1'-0"



TYPICAL WALL CORNER DETAIL
N.T.S.

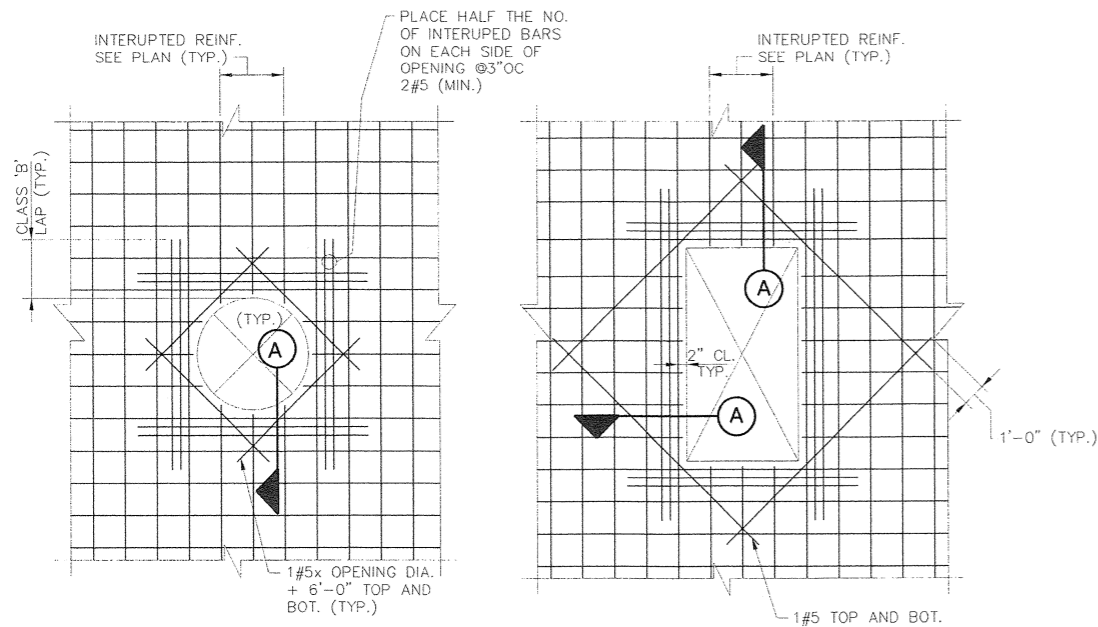


**TYPICAL WALL / BASE
SLAB CONST. JOINT**
N.T.S.

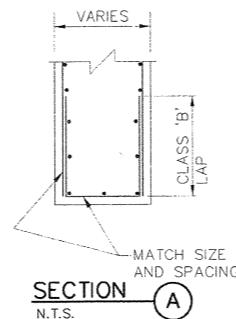


- NOTES:**
1. THE EQUIVALENT NUMBER OF VERTICAL & HORIZONTAL BARS INTERRUPTED BY OPENINGS SHALL BE PROVIDED BY PLACING 1/2 OF BARS ON EACH SIDE OF THE OPENING @3"OC.
 2. MAINTAIN NOT LESS THAN 1 1/4" CLEAR BETWEEN ADJACENT PARALLEL BAR.

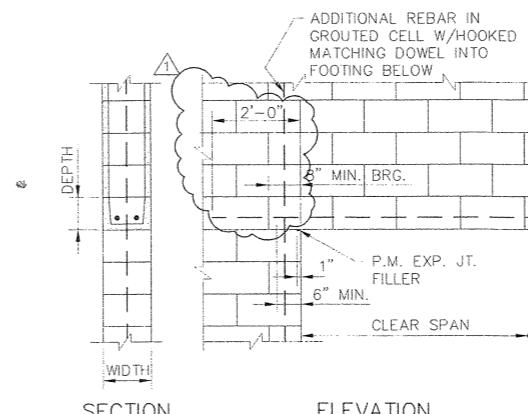
**TYPICAL WALL REINFORCING
REQ'D AT PIPE OPENING**
N.T.S.



TYPICAL SLAB AND WALL OPENING DETAILS
N.T.S.



SECTION
N.T.S.



TYPICAL CMU LINTEL DETAILS
N.T.S.

GENERAL NOTES

1. COORDINATE PLUMBING, PIPING, ELECTRICAL, & MECHANICAL PRIOR TO PLACING CONCRETE.
2. FIELD VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR COORDINATE EQUIPMENT ANCHORS WITH MANUFACTURER SELECTED.
4. FOUNDATIONS ARE DESIGNED BASED ON RECOMMENDATIONS MADE IN PROJECT GEOTECHNICAL REPORT PREPARED BY S & ME, INC. MINIMUM ALLOWABLE SOIL BEARING SHALL BE AS SHOWN ON DRAWINGS AND SHALL BE VERIFIED BY REGISTERED SOILS ENGINEER AT TIME OF INSTALLATION.
5. DESIGN LOADING:

WIND: 120 MPH
SEISMIC: Av = .12
Ag = .12
EXP. GRP III
PERFORMANCE CATEGORY C
SOIL PROFILE 1.5
EQUIV. LATERAL FORCE METHOD

6. GROUT ALL KEYWAYS BETWEEN HOLLOW CORE PRECAST SLAB UNIT AND WHERE SHOWN ON DWGS.

CONCRETE NOTES

1. CONCRETE COVER REQUIREMENTS PER ACI 318 LATEST EDITION, EXCEPT AS NOTED ON DRAWINGS.
2. REINFORCED STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
4. PROVIDE VERTICAL CONSTRUCTION JOINTS IN WALLS EVERY 40 FEET MAXIMUM.
5. CONCRETE SHALL DEVELOP FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

MASONRY GROUT 2500 PSI
FTGS. PIERS 3000 PSI
WALLS, SLABS, MATS 4000 PSI

6. HORIZONTAL REINFORCING CONTINUOUS AROUND ALL CORNERS.
7. CHAMFER EXPOSED EDGES OF CONCRETE 1" UNO.
8. PROVIDE WATERSTOP TYPICAL ALL TANK PITS.

MASONRY

1. USE 2-#5 VERTICAL BARS AT CORNERS, EACH SIDE OF OPENINGS AND CONSTRUCTION JOINTS. PROVIDE MAXIMUM VERTICAL BAR SPACING OF 2-#5@48" FOR 12" CMU. AND 1 #5 @ 32" FOR 8" CMU. PROVIDE 1-#5 DOWEL IN FOOTING FOR EACH VERTICAL BAR.
2. PROVIDE LADDER TYPE GALVANIZED PREFABRICATED HORIZONTAL REINFORCING @ 16" O.C. VERTICAL IN MASONRY WALLS. UNLESS NOTED OTHERWISE ON DWGS.
3. FILL BLOCK CELLS WITH APPROVED GROUT MIX AT ALL BAR AND ANCHOR LOCATIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS.
5. THE FOLLOWING MATERIAL PROPERTIES SHALL BE USED FOR MASONRY CONSTRUCTION:

MASONRY COMP STRENGTH (F'M) 1350 PSI
MORTAR (28 DAY) STRENGTH 1800 PSI

6. PROVIDE BOND BM AT TOP COURSE WITH 2 #5 TYPICAL.
7. REFER TYPICAL DETAILS FOR EMBEDDED HEADER PLATE AT O/H DOOR LINTEL.

STEEL (FOR 4" OF BRICK OR MASONRY)

SPANS TO 5'-0" 1 ANGLE 4"x 3 1/2"x 5/16"
5' TO 6'-0" 1 ANGLE 4"x 4"x 5/16" S.L.O.
6' TO 7'-0" 1 ANGLE 5"x 4"x 5/16 S.L.O.
7' TO 8'-0" 1 ANGLE 5"x 4"x 3/8" S.L.O.
8' TO 9'-0" 1 ANGLE 6"x 4"x 3/8" S.L.O.
9' TO 14'-6" 1 ANGLE 5"x 5"x 3/8" S.L.O. *

CONCRETE (PRECAST)

SPANS UNDER 4'-0" 8" DEEP 2#3 BOTTOM
4'-0" TO 5'-6" 8" DEEP 2#4 BOTTOM
5'-6" TO 7'-0" 8" DEEP 2#5 BOTTOM
7'-0" TO 8'-6" 8" DEEP 2#6 BOTTOM
8'-6" TO 11'-0" 16" DEEP 2#5 TOP & BOT., #3 TIES @8"OC
11'-0" TO 14'-6" 16" DEEP 2#6 TOP & BOT., #3 TIES @8"OC

BLOCK (CONCRETE FILLED LINTEL BLOCKS)

SPANS UNDER 3'-6" 8" DEEP 2#3 BOTTOM
3'-6" TO 5'-0" 8" DEEP 2#4 BOTTOM
5'-0" TO 6'-0" 8" DEEP 2#5 BOTTOM
6'-0" TO 8'-0" 16" DEEP 2#6 BOTTOM

NOTE: BEAR ALL LINTELS A MINIMUM OF 8" EACH END.

* INDICATES LINTEL ANGLE IS TO BE SUPPORTED AT MIDSPAN, WITH 1 - 5/8" ADHESIVE BOLT DRILLED INTO BACKING LINTEL LOCATE BOLT 3 1/2" MIN. FROM UNDERSIDE OF BACKING LINTEL.

NOTES:
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| NO. | DATE | DESCRIPTION OF REVISION |
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| 1 | 08-02-01 | RECORD DRAWING |
| 0 | 12-15-99 | INITIAL ISSUE |



CITY OF GEORGETOWN
SOUTH CAROLINA

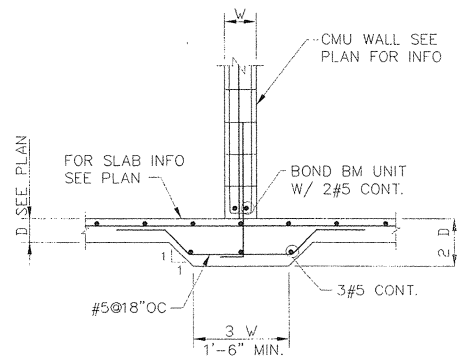


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

TYPICAL SECTIONS AND DETAILS

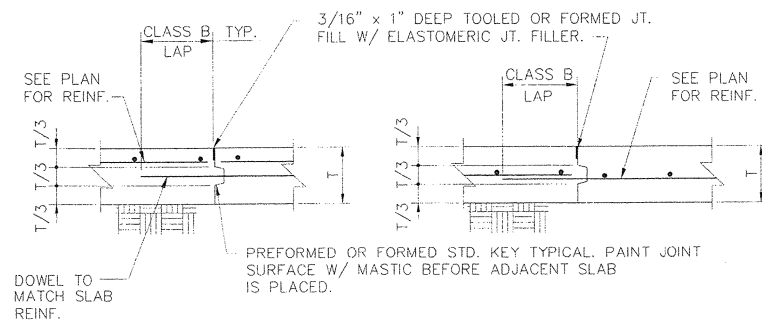
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|--------------|------------------|---------------------|-------|-----|
| DESIGNED: WW | CHECKED: | DATE: NOVEMBER 2000 | ST1 | 1 |
| DRAWN: OS | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

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02.13.02



TYPICAL THICKENED SLAB DETAIL

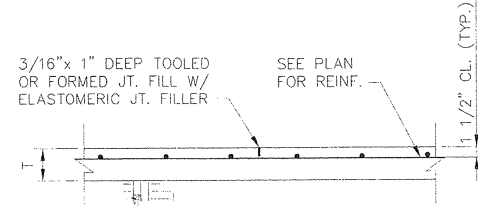
1/2" = 1'-0"



CONSTRUCTION JOINT DETAIL

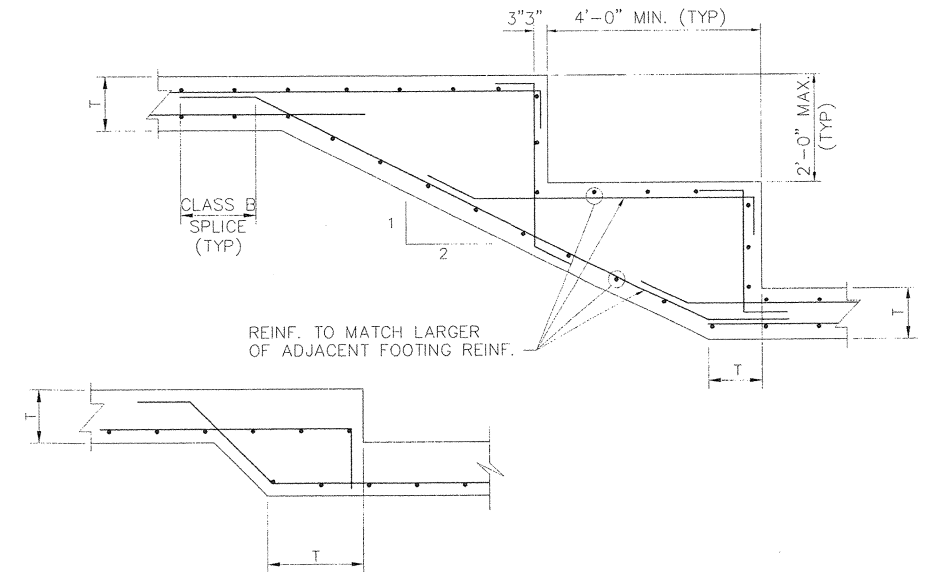
TYPICAL FLOOR JOINT DETAIL

N.T.S.



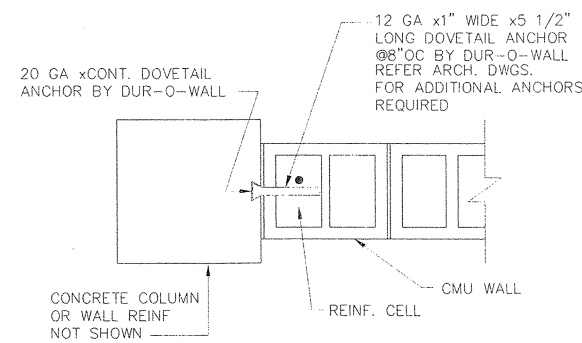
TYPICAL CONTROL JOINT DETAIL

N.T.S.



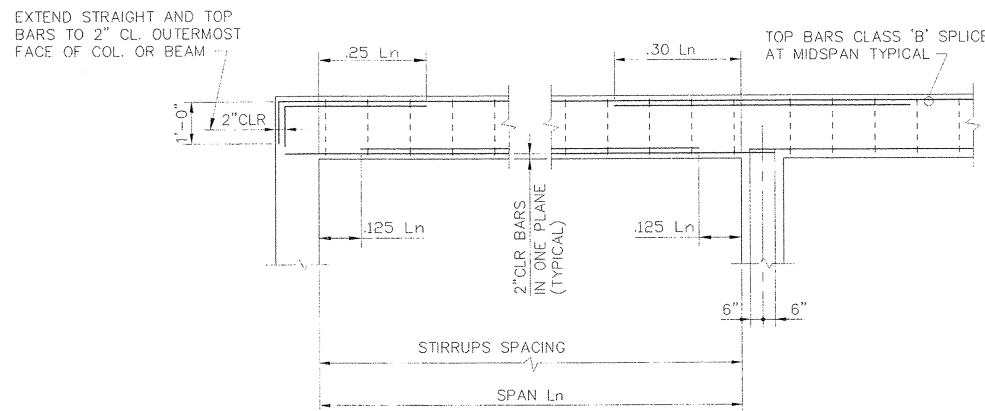
STEPPED FOOTING DETAILS

N.T.S.



TYPICAL CMU WALL ANCHOR TO CONCRETE COLUMN DETAIL

N.T.S.

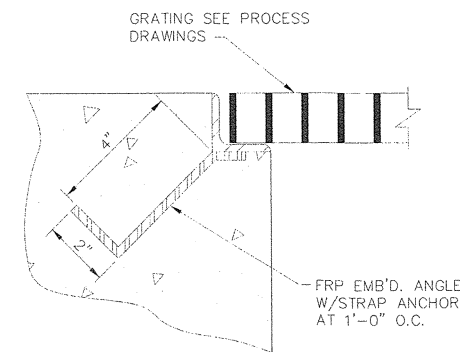


EXTERIOR

CONTINUOUS INTERIOR

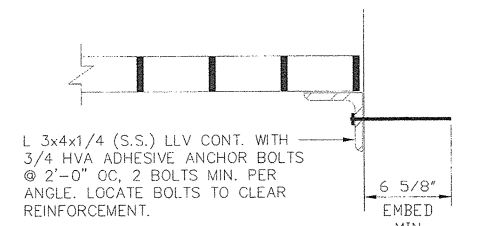
BEAM REINF. DETAILS

N.T.S.



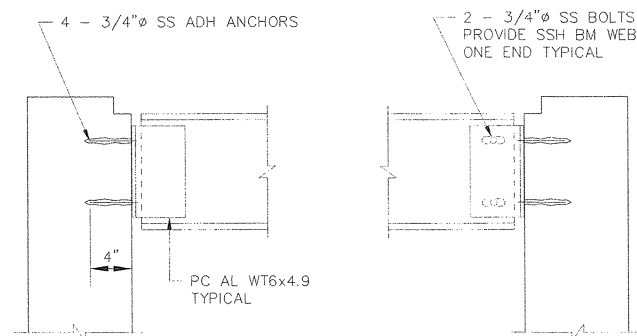
GRATING EDGE SUPPORT DETAIL

N.T.S.



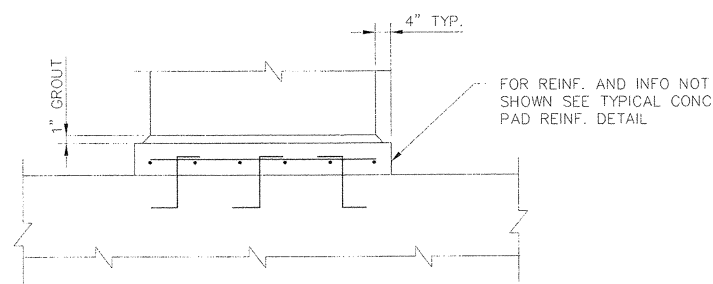
GRATING SUPPORT DETAIL AT WALL

N.T.S.



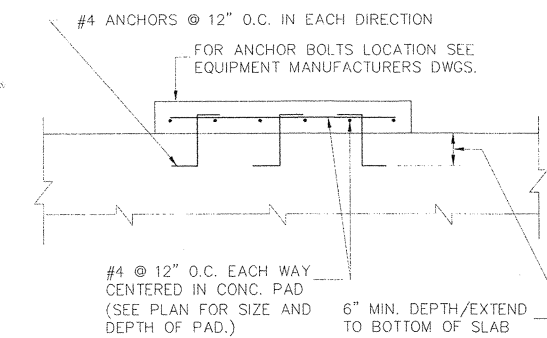
TYPICAL ALUMINUM BEAM CONNECTION TO CONCRETE WALL DETAIL

N.T.S.



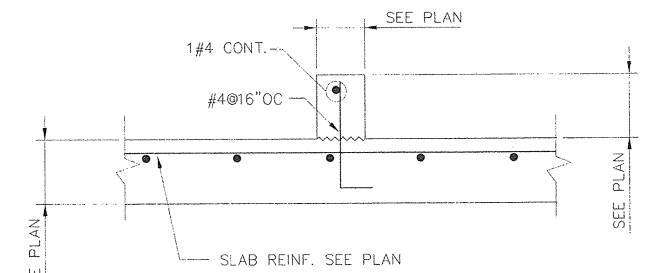
TYPICAL CONC. PUMP PAD REINF. DETAIL

N.T.S.



TYPICAL CONC. PAD REINF. DETAIL

N.T.S.



TYPICAL CURB DETAIL U.N.O.

N.T.S.

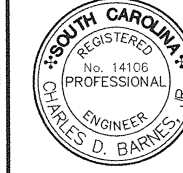
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CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

TYPICAL SECTIONS AND DETAILS

| | | | | |
|--------------|------------------|---------------------|-------|-----|
| DESIGNED: WW | CHECKED: | DATE: NOVEMBER 2000 | ST2 | 1 |
| DRAWN: OS | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

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AIR MOVING DEVICES & COMPONENTS

| | |
|--|--|
| | PROPELLER WALL FAN |
| | GAS-FIRED UNIT HEATER |
| | ELECTRIC UNIT HEATER |
| | DUCT WITH FLOW ARROW |
| | DUCT WITH SIZE |
| | SUPPLY DUCT OR POSITIVE PRESSURE RISER |
| | RETURN DUCT OR NEGATIVE PRESSURE RISER |
| | ELEVATION CHANGE, (R) RISE OR (D) DROP |
| | DUCT SIZE (RECTANGULAR) |
| | DUCT SIZE (ROUND) |
| | FLEXIBLE CONNECTION |
| | FLEXIBLE DUCT |
| | TRANSITION |
| | ELBOW WITH TURNING VANES |
| | MOTORIZED DAMPER |
| | FIRE DAMPER & SLEEVE |
| | MANUAL VOLUME DAMPER |
| | SMOKE DETECTOR |
| | THERMOSTAT (ELECTRIC, PNEUMATIC) |
| | WALL SWITCH |
| | STANDARD BRANCH, MANUAL SPLITTER |
| | STANDARD BRANCH, NO SPLITTER |
| | SPIN-IN FITTING WITH DAMPER |
| | RETURN GRILLE OR REGISTER (CEILING) |
| | SUPPLY GRILLE OR REGISTER (CEILING) |
| | DOOR GRILLE |
| | FIXED WALL LOUVER |
| | COMBINATION WALL LOUVER |
| | EQUIPMENT SYMBOL |

MECHANICAL ABBREVIATIONS

| | |
|------|--------------------------------|
| F | DEGREES FAHRENHEIT |
| Δ P | PRESSURE DIFFERENCE |
| ∅ | PHASE |
| ∅ | ROUND OR DIAMETER |
| AC | AIR CONDITIONING/ACCESS COVER |
| AD | AREA DRAIN |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AHU | AIR HANDLING UNIT |
| ALUM | ALUMINUM |
| AUX | AUXILIARY |
| A/C | ABOVE CEILING |
| BDD | BACK DRAFT DAMPER |
| BFF | BELOW FINISHED FLOOR |
| BLW | BELOW |
| BOD | BOTTOM OF DUCT |
| BOF | BOTTOM OF FAN |
| BOH | BOTTOM OF HEATER |
| BOF | BOTTOM OF LOUVER |
| BOS | BOTTOM OF STEEL |
| BOU | BOTTOM OF UNIT |
| BSP | BLACK STEEL PIPE |
| BTU | BRITISH THERMAL UNITS |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| B/F | BELOW FLOOR |
| B/G | BELOW GRADE |
| CAP | CAPACITY |
| CCF | 100 CUBIC FEET |
| CF | CUBIC FEET |
| CFH | CUBIC FEET PER HOUR |
| CFM | CUBIC FEET PER MINUTE |
| CISP | CAST IRON SOIL PIPE |
| CO | CLEANOUT |
| CONC | CONCRETE |
| COP | COEFFICIENT OF PERFORMANCE |
| CPVC | CHLORINATED POLYVINYL CHLORIDE |
| CS | CARBON STEEL (SEAMLESS) |
| CU | CONDENSING UNIT OR COPPER |
| D | DAMPER |
| DB | DRY BULB |
| DEG | DEGREES |
| DF | DRINKING FOUNTAIN |
| DG | DOOR GRILLE |
| DIP | DUCTILE IRON PIPE |
| DN | DOWN |
| DWG | DRAWING |
| EA | EXHAUST AIR |
| EAT | ENTERING AIR TEMPERATURE |
| EDB | ENTERING DRY BULB |
| EER | ENERGY EFFICIENCY RATIO |
| EEW | EMERGENCY EYEWASH |
| EF | EXHAUST FAN |
| EFF | EFFICIENCY |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| ESH | EMERGENCY EYEWASH/SHOWER |
| ESP | EXTERNAL STATIC PRESSURE |
| EUH | ELECTRIC UNIT HEATER |

ELECTRIC HEATERS

| | |
|-------|--|
| EWB | ENTERING WET BULB |
| EWC | ELECTRIC WATER COOLER |
| EWT | ENTERING WATER TEMPERATURE |
| EXIST | EXISTING |
| FD | FIRE DAMPER |
| FF EL | FINISH FLOOR ELEVATION |
| FLEX | FLEXIBLE |
| FPM | FEET PER MINUTE |
| FT | FEET |
| GAL | GALLON |
| GH | GRAVITY HOOD |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GSP | GALVANIZED STEEL PIPE |
| GFUH | GAS-FIRED UNIT HEATER |
| HOA | HAND/OFF/AUTO |
| HP | HEAT PUMP OR HORSEPOWER |
| HR | HOUR |
| HVAC | HEATING, VENTILATING, & AIR CONDITIONING |
| HZ | HERTZ |
| IE | INVERT ELEVATION |
| IN | INCHES |
| IWG | INCHES WATER GAUGE |
| KW | KILOWATT |
| LAV | LAVATORY |
| LDB | LEAVING DRY BULB |
| LH | LATENT HEAT |
| LWB | LEAVING WET BULB |
| LWT | LEAVING WATER TEMPERATURE |
| MAU | MAKE-UP AIR UNIT |
| MAX | MAXIMUM |
| MBH | 1000 BTUH |
| MCF | 1000 CUBIC FEET |
| MD | MOTORIZED DAMPER |
| MIN | MINIMUM OR MINUTE |
| MVD | MANUAL VOLUME DAMPER |
| NC | NOISE CRITERIA |
| NC | NORMALLY CLOSED |
| NO | NORMALLY OPEN |
| NTS | NOT TO SCALE |
| OA | OUTSIDE AIR |
| OBD | OPPOSED BLADE DAMPER |
| OC | ON CENTER |
| P | PUMP |
| PH | PHASE |
| PP | POLYPROPYLENE |
| PSI | POUNDS PER SQUARE INCH |
| PSIA | POUNDS PER SQUARE INCH ABSOLUTE |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| PVC | POLYVINYL CHLORIDE |
| PW | POTABLE WATER |
| RA | RETURN AIR OR RELIEF AIR |
| RAG | RETURN AIR GRILLE |
| REF | REFERENCE |
| RPM | REVOLUTIONS PER MINUTE |
| RPZ | REDUCED PRESSURE ZONE |

PLUMBING ABBREVIATIONS & SYMBOLS (ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS)

| | |
|--|--|
| SHF | SENSIBLE HEAT FACTOR |
| SA | SUPPLY AIR |
| SEN | SENSIBLE HEAT |
| SF | SQUARE FEET |
| SF | SUPPLY FAN |
| SH | SHOWER |
| SK | SINK |
| SP | STATIC PRESSURE OR SUMP PUMP |
| SSK | SERVICE SINK |
| SSL | STAINLESS STEEL |
| ST | STAGES OF HEAT |
| TDH | TOTAL DYNAMIC HEAD |
| TOD | TOP OF DUCT |
| TOT | TOTAL HEAT |
| TYP | TYPICAL |
| T*STAT | THERMOSTAT |
| UCD | UNDER CUT DOOR |
| UNO | UNLESS NOTED OTHERWISE |
| UP | UP |
| UR | URINAL |
| V | VOLTS |
| VB | VACUUM BREAKER |
| VEL | VELOCITY |
| VTR | VENT THRU ROOF |
| W | WATTS |
| W X H | WIDTH BY HEIGHT |
| WB | WET BULB OR WASHER BOX |
| WC | WATER CLOSET |
| WC | WATER COLUMN |
| WG | WATER GAUGE |
| WH | WATER HEATER/WALL HUNG |
| WL | WALL LOUVER |
| WMS | WIRE MESH SCREEN |
| WV | WET VENT |
| W/ | WITH/WHERE |
| W/O | WITHOUT |
| PLUG | PLUG |
| PRESSURE REGULATING VALVE (UPSTREAM SENSING, DOWNSTREAM CONTROL) | PRESSURE REGULATING VALVE (UPSTREAM SENSING, DOWNSTREAM CONTROL) |
| P-TRAP (ELEVATION, PLAN) | P-TRAP (ELEVATION, PLAN) |
| RISER OR ELBOW (ELEVATION, UP, DOWN) | RISER OR ELBOW (ELEVATION, UP, DOWN) |
| STRAINER | STRAINER |
| TEE (ELEVATION, UP, DOWN) | TEE (ELEVATION, UP, DOWN) |
| UNION, FLANGED | UNION, FLANGED |
| UNION, SCREWED | UNION, SCREWED |
| WATER METER | WATER METER |
| PIPE ABANDONED OR REMOVED | PIPE ABANDONED OR REMOVED |

PLUMBING DEMOLITION GENERAL NOTES:

- EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED, EXISTING WORK IS TO REMAIN AND SHALL BE MAINTAINED OPERATIONAL.
- UNLESS OTHERWISE NOTED, ALL MATERIALS & EQUIPMENT SHOWN OR SPECIFIED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE, BY THE OWNERS DIRECTION.
- THE CONTRACTOR SHALL REMOVE ALL SUPPORTING FACILITIES NO LONGER NEEDED OR MADE OBSOLETE BY THE NEW EQUIPMENT AND/OR MATERIALS FURNISHED IN THIS CONTRACT. SUCH REMOVAL INCLUDES, BUT IS NOT LIMITED TO, ABANDONED PIPING, VALVES, SUPPORT FRAMES, SUPPORT BRACKETS, PLUMBING FIXTURES, ETC.
- THE PLUMBING CONTRACTOR SHALL FIELD VERIFY PRIOR TO INSTALLATION OF NEW PIPING CONNECTION INTO EXISTING PIPE AND PRIOR TO DEMOLITION OF EXISTING PIPING. LOCATIONS OF ALL PIPE SHOWN AS AN AIDE FOR PLUMBING CONTRACTORS DEMOLITION TAKE-OFF. IF EXACT LOCATIONS ARE REQUIRED, THE PLUMBING CONTRACTOR SHALL FIELD LOCATE PRIOR TO THE BID DATE.
- COORDINATE WITH WORK DONE UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICT.
- NEW VENT, COLD AND HOT WATER PIPING SHALL BE ROUTED ABOVE CEILING. COORDINATE WITH ALL OTHER TRADES, EXISTING AND NEW.
- PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT.
- ALL WALL AND FLOOR PENETRATIONS FOR THIS PROJECT TO BE PATCHED, SHALL MATCH SURROUNDING SURFACES WHERE EXISTING PIPE IS REMOVED AND/OR NEW PIPE INSTALLED.
- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.

| ELECTRIC HEATERS | | | | | | |
|------------------|-------|----|---------|--------|-------------------|---------|
| MARK | MODEL | KW | FAN CFM | FAN HP | ELECT. VOLT/PHASE | REMARKS |
| EUH-201 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-202 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-203 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-204 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-205 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-206 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-207 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-208 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-209 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-401 | HDH | 3 | 405 | 1/15 | 208/1 | 1 |
| EUH-402 | HDH | 3 | 405 | 1/15 | 208/1 | 1 |
| EUH-403 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |
| EUH-404 | HDH | 2 | 405 | 1/15 | 208/1 | 1 |

REMARKS:
1. FURNISH INTEGRAL THERMOSTAT.

| ELECTRIC MAKEUP AIR UNITS | | | | | | | |
|---------------------------|----------|----|---------|-------------------|----|-------------------|---------|
| MARK | MODEL | KW | FAN CFM | T.S.P. (in. w.g.) | HP | ELECT. VOLT/PHASE | REMARKS |
| MAU-201 | SBEV-112 | 31 | 1,000 | 1 1/2 | 1 | 480/3 | 1, 2 |
| MAU-202 | SB-112 | - | 2,400 | 1 1/2 | 2 | 480/3 | 1 |

REMARKS:
1. FURNISH HORIZONTAL UNIT WITH DOWNBLAST DISCHARGE.
2. FURNISH SINGLE-POINT POWER CONNECTION.

| FANS | | | | | | | | | |
|--------|---------|---------------------|-------|--------|--------|---------|------------|-----------|---------|
| MARK | MODEL | TYPE | CFM | MAX SP | MAX HP | MAX RPM | ELECTRICAL | INTERLOCK | REMARKS |
| EF-201 | 120R2B | UPBLAST CENTRIFUGAL | 1,000 | 0.25 | .17 | 907 | 120/1 | MAU-201 | |
| EF-202 | 70W15DM | WALL CENTRIFUGAL | 130 | 0.125 | 1/20 | 1680 | 120/1 | WL-201 | |
| EF-401 | 120R2B | UPBLAST CENTRIFUGAL | 740 | 0.25 | .17 | 907 | 120/1 | WL-401 | |
| EF-402 | 100W2B | WALL CENTRIFUGAL | 495 | 0.25 | .17 | 1161 | 120/1 | WL-402 | |
| EF-403 | 120W2B | WALL CENTRIFUGAL | 855 | 0.25 | .17 | 988 | 120/1 | - | |

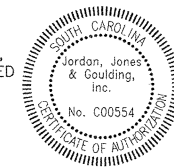
REMARKS:
SELECTION BASED ON COOK

| DIFFUSER, GRILLE, AND REGISTER SCHEDULE | | | | | | | | | | |
|---|-------|---------------|---------------|---------|-------------|---------|---------|--------|----------|---------|
| MARK | MODEL | FACE SIZE IN. | NECK SIZE IN. | MAX CFM | MAX SP. IN. | MAX. NC | SERVICE | DAMPER | MATERIAL | REMARKS |
| A | 300RS | 12 X 8 | 12 X 8 | 400 | 0.1 | 25 | SUPPLY | OBVD | ALUMINUM | |
| B | 300RS | 8 X 8 | 8 X 8 | 260 | 0.1 | 23 | SUPPLY | OBVD | ALUMINUM | |
| C | 300RS | 18 X 8 | 18 X 8 | 615 | 0.1 | 26 | SUPPLY | OBVD | ALUMINUM | |

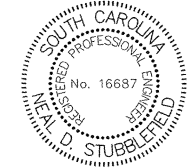
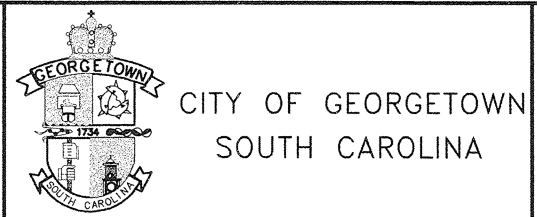
REMARKS:
SELECTION BASED ON TITUS

| PLUMBING FIXTURE SCHEDULE | | | | | | |
|---------------------------|--------------------------|---------------------|------|-------|------|--------------------------------|
| MARK | DESCRIPTION | CONNECTION SIZE, IN | | | | REMARKS |
| | | CW | HW | SAN | VENT | |
| ESH-1 | EMERGENCY SHOWER/EYEWASH | 1-1/4" | - | 3"-FD | 2" | FLOOR MOUNT |
| ESH-2 | EMERGENCY SHOWER/EYEWASH | 1-1/4" | - | 3"-FD | 2" | FLOOR MOUNT, FROST-PROOF |
| DW-1 | DISHWASHER | 1/2" | 1/2" | 2" | - | UNDERCOUNTER TYPE |
| LSK-1 | LAB SINK | 1/2" | 1/2" | 2" | 2" | ROUGH-IN ONLY, SEE DIVISION 12 |

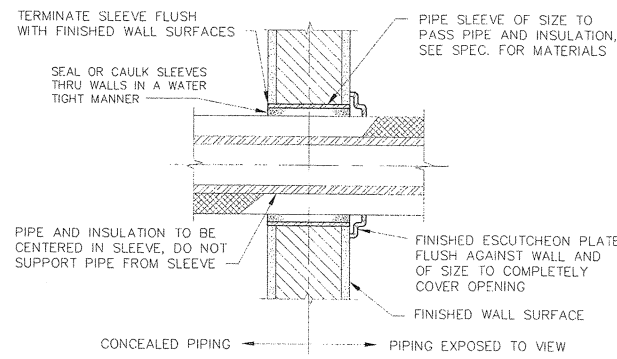
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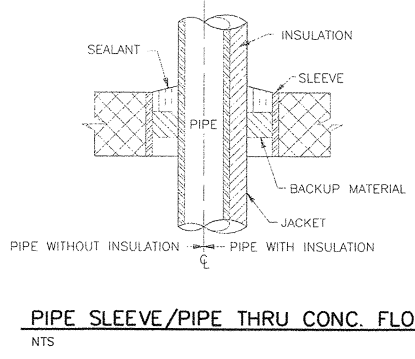
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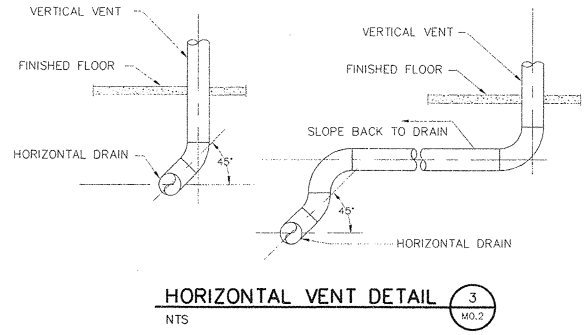
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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | | |
| LEGEND, SCHEDULES, ABBREVIATIONS & DETAILS | | | | |
| DESIGNED: RJS | CHECKED: | DATE: NOVEMBER 2001 | MO.1 | 1 |
| DRAWN: CRC | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |



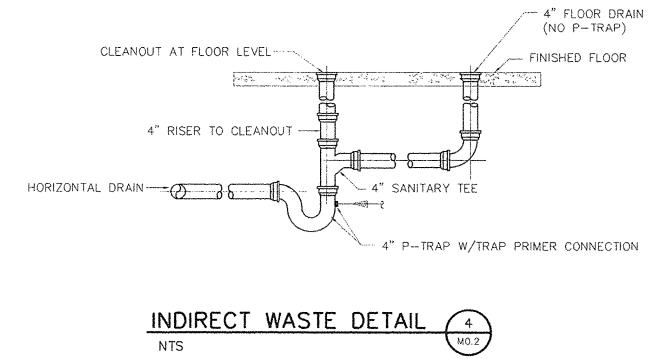
PIPE SLEEVE/PIPE THRU WALL 1
NTS



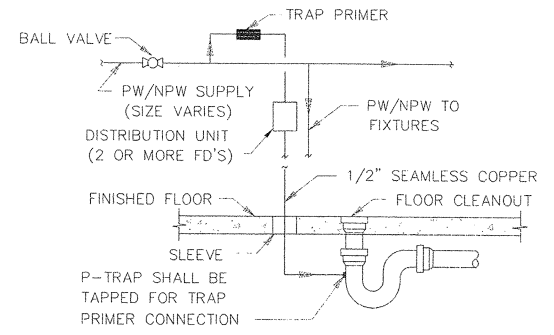
PIPE SLEEVE/PIPE THRU CONC. FLOOR 2
NTS



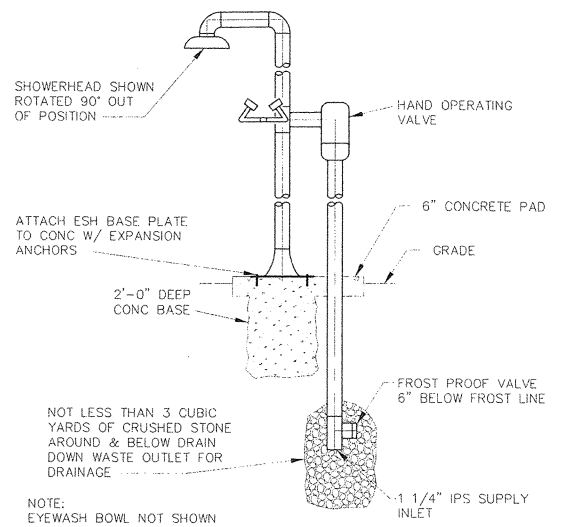
HORIZONTAL VENT DETAIL 3
NTS



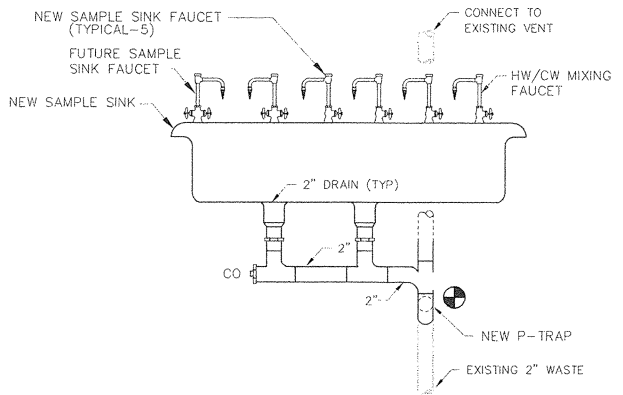
INDIRECT WASTE DETAIL 4
NTS



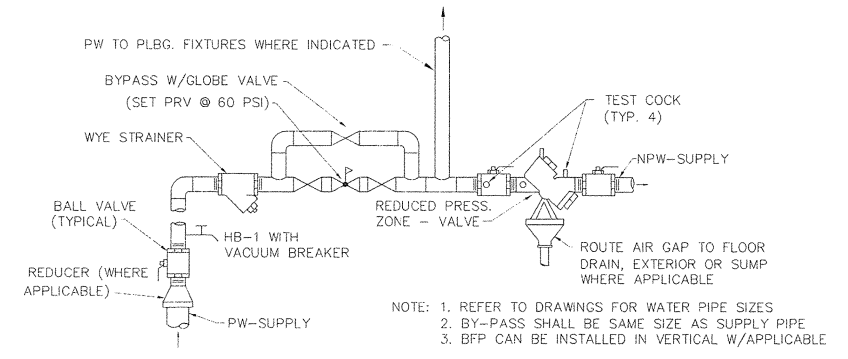
TRAP PRIMER 5
NTS



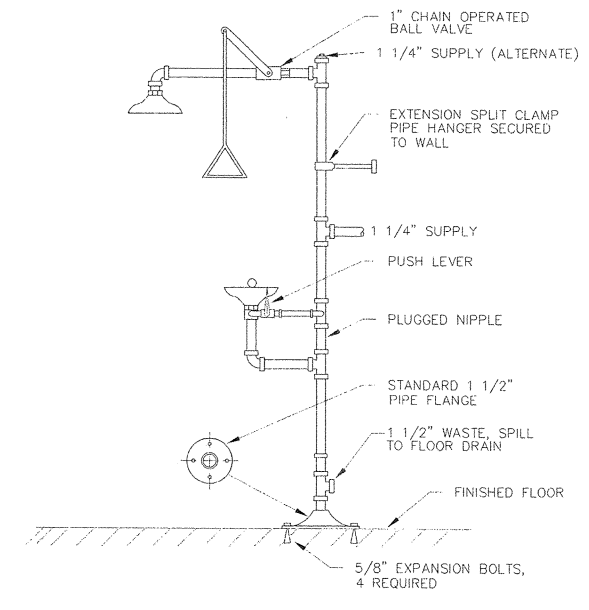
NON-FREEZE ESH INSTALLATION DETAIL 6
NTS



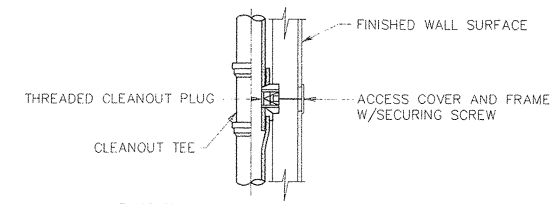
NEW SAMPLE SINK/LAB SINK WASTE PIPE-DETAIL 7
NTS



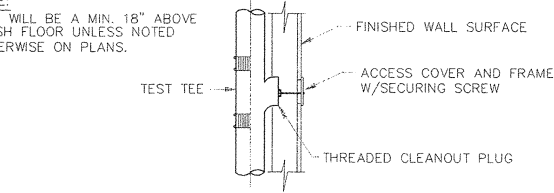
REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY 8
NTS MOUNT MAX. 4'-0" AFF



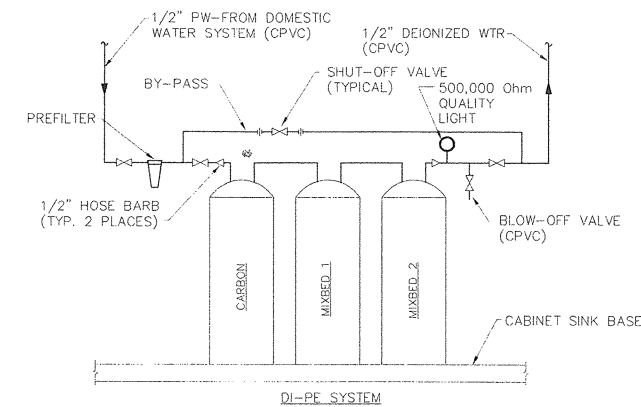
ESH-1 EMERGENCY SHOWER/EYEWASH 9
NTS



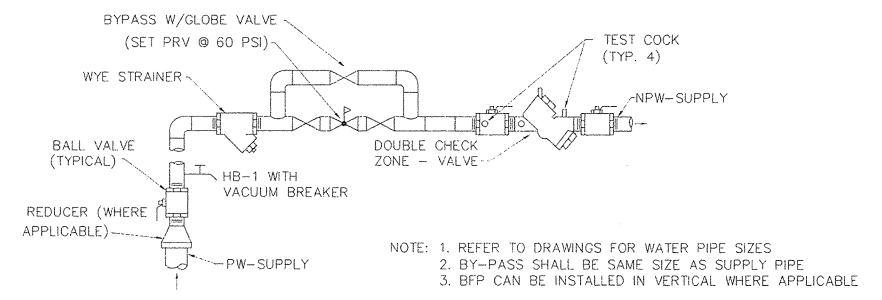
WALL CLEANOUT HUB AND SPIGOT PIPE WITH ACCESS COVER 10
NOT TO SCALE



WALL CLEANOUT NO HUB PIPE WITH ACCESS COVER 10
NOT TO SCALE



DETAIL - DEIONIZED WATER 11
NTS

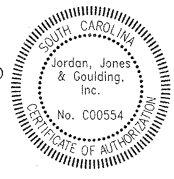


DOUBLE CHECK ZONE BACKFLOW PREVENTER ASSEMBLY 12
NTS MOUNT MAX. 4'-0" AFF

| WALL LOUVERS | | | | | | | | | |
|--------------|-----------|------------------|-------|--------|-------|--------|-----------|-----------|---------|
| MARK | MODEL | SIZE (") (W X H) | CFM | MAX SP | FRAME | SCREEN | DAMPER | INTERLOCK | REMARKS |
| WL-201 | ALC-6375 | 12 X 12 | 130 | 0.1 | BOX | BIRD | MOTORIZED | EF-202 | |
| WL-202 | ALC-6375 | 24 X 24 | 1,315 | 0.1 | BOX | BIRD | MOTORIZED | MAU-202 | |
| WL-203 | ALC-6375 | 24 X 24 | 690 | 0.1 | BOX | BIRD | MOTORIZED | MAU-202 | |
| WL-204 | ALC-6375 | 12 X 12 | 120 | 0.1 | BOX | BIRD | MOTORIZED | MAU-202 | |
| WL-205 | ALC-6375 | 24 X 24 | 275 | 0.1 | BOX | BIRD | MOTORIZED | MAU-202 | |
| WL-401 | ALC-6375 | 24 X 24 | 740 | 0.1 | BOX | BIRD | MOTORIZED | EF-401 | |
| WL-402 | ALC-6375 | 24 X 24 | 495 | 0.1 | BOX | BIRD | MOTORIZED | EF-402 | |
| WL-403 | ALC-845AF | 36 X 24 | 855 | 0.1 | BOX | BIRD | | | |

REMARKS:
1. SEE ARCHITECTURAL DWGS FOR WALL OPENING LOCATIONS.

NOTES:
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SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

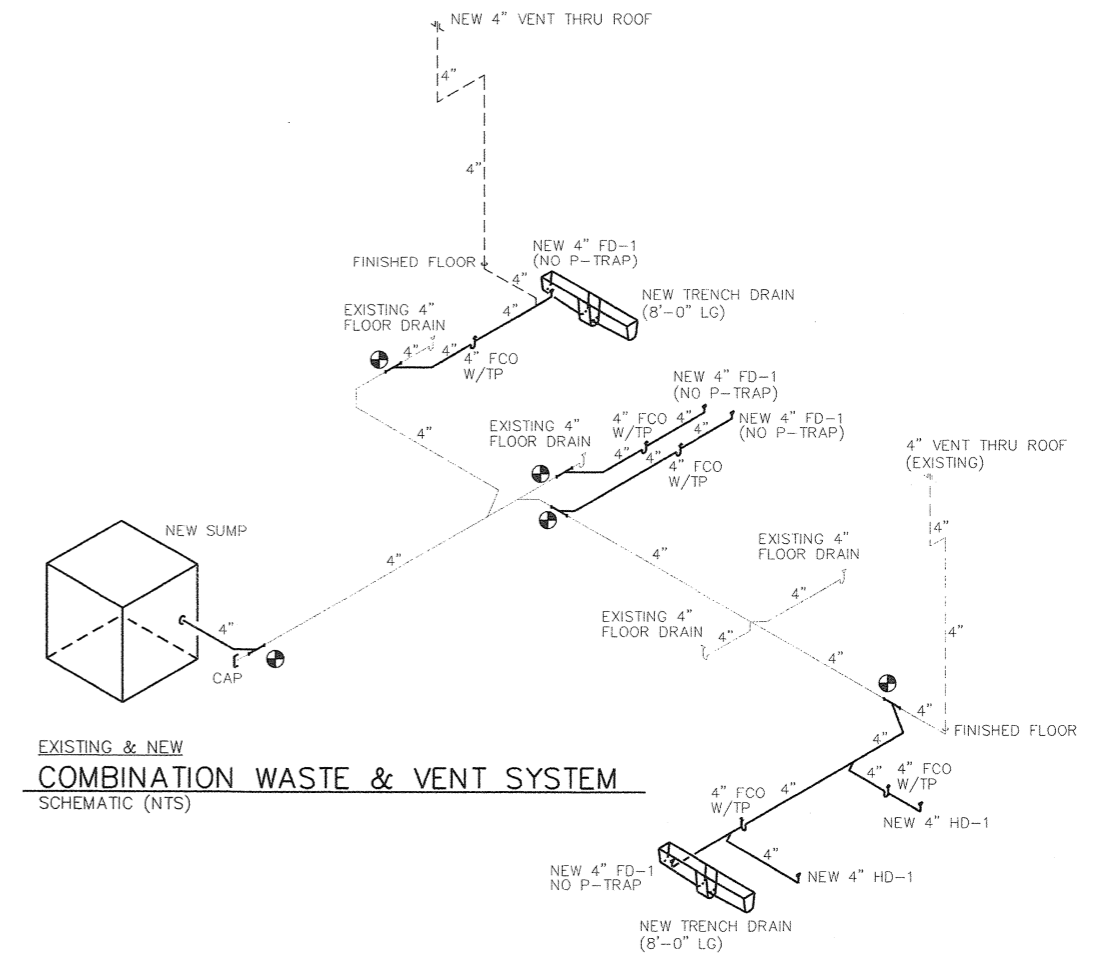
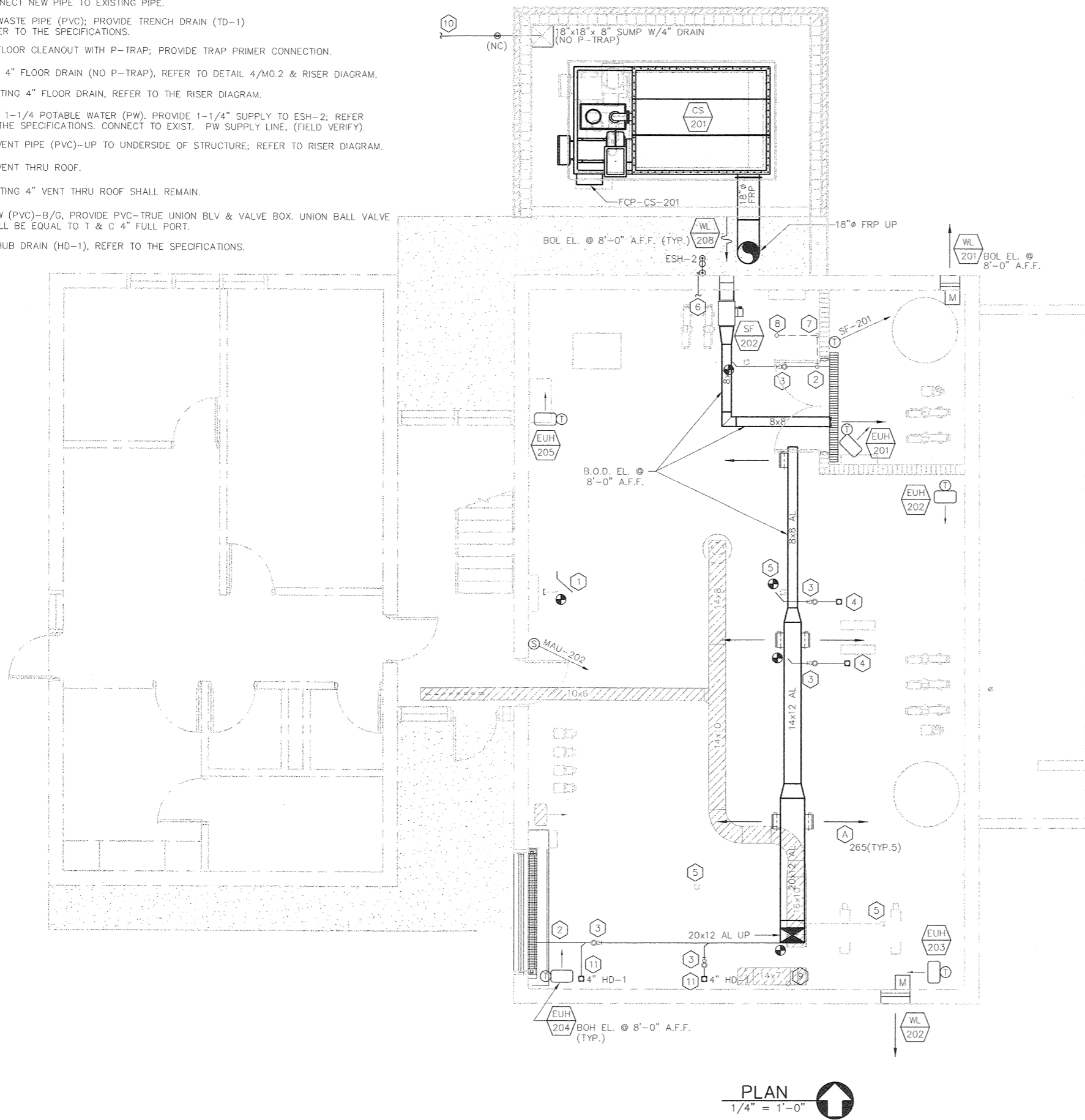
MECHANICAL DETAILS
& DETAILS

| | | | | |
|-------------------|------------------|--------------------|-------|-----|
| DESIGNED: RJS/LWP | CHECKED: | DATE: NOVEMBER 200 | MO.2 | 1 |
| DRAWN: CRC/LWP | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

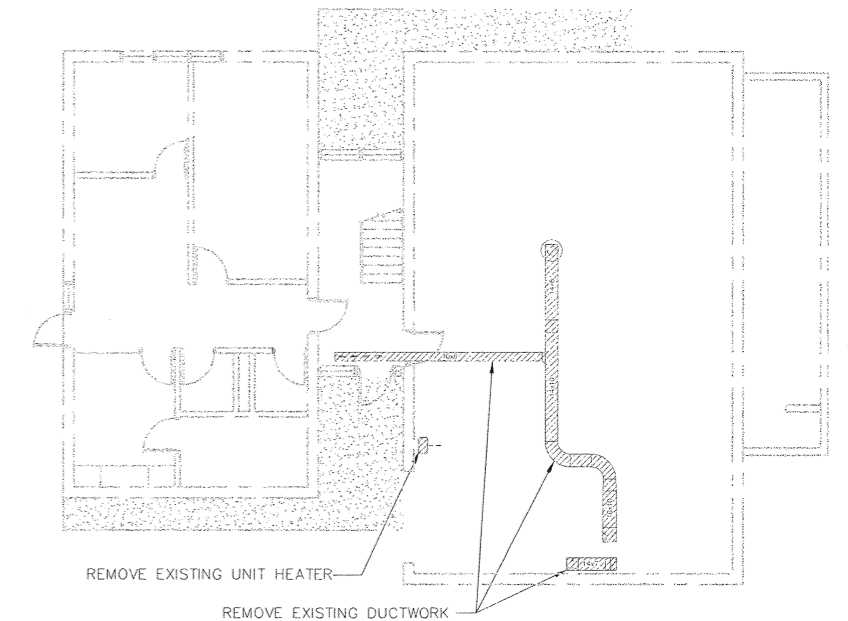
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PLUMBING LEGEND NOTES: (THIS SHEET ONLY)

- 1 4" WASTE PIPE (PVC) BELOW FLOOR; INV. ELEV. = 19.50 ± CONNECT NEW PIPE TO EXISTING PIPE.
- 2 4" WASTE PIPE (PVC); PROVIDE TRENCH DRAIN (TD-1) REFER TO THE SPECIFICATIONS.
- 3 4" FLOOR CLEANOUT WITH P-TRAP; PROVIDE TRAP PRIMER CONNECTION.
- 4 NEW 4" FLOOR DRAIN (NO P-TRAP), REFER TO DETAIL 4/MO.2 & RISER DIAGRAM.
- 5 EXISTING 4" FLOOR DRAIN, REFER TO THE RISER DIAGRAM.
- 6 NEW 1-1/4" POTABLE WATER (PW), PROVIDE 1-1/4" SUPPLY TO ESH-2; REFER TO THE SPECIFICATIONS. CONNECT TO EXIST. PW SUPPLY LINE, (FIELD VERIFY).
- 7 4" VENT PIPE (PVC)-UP TO UNDERSIDE OF STRUCTURE; REFER TO RISER DIAGRAM.
- 8 4" VENT THRU ROOF.
- 9 EXISTING 4" VENT THRU ROOF SHALL REMAIN.
- 10 4" W (PVC)-B/G. PROVIDE PVC-TRUE UNION BLV & VALVE BOX. UNION BALL VALVE SHALL BE EQUAL TO T & C 4" FULL PORT.
- 11 4" HUB DRAIN (HD-1), REFER TO THE SPECIFICATIONS.



EXISTING & NEW
COMBINATION WASTE & VENT SYSTEM
SCHEMATIC (NTS)



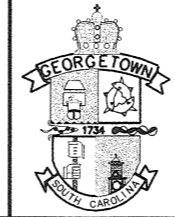
PLAN - DEMOLITION
NO SCALE

- NOTES:**
1. PROVIDE TEMPORARY SUSPENSION-TYPE HANGERS FOR EXISTING DIFFUSERS, GRILLES, AND REGISTERS DURING CEILING GRID REPLACEMENT SEE ARCHITECTURAL PLANS FOR REFLECTED CEILING PLAN.
 2. PATCH REMAINING HOLE IN ROOF. FIELD VERIFY EXISTING MATERIALS FOR MATCHING PATCH TO ROOF.

NOTES:
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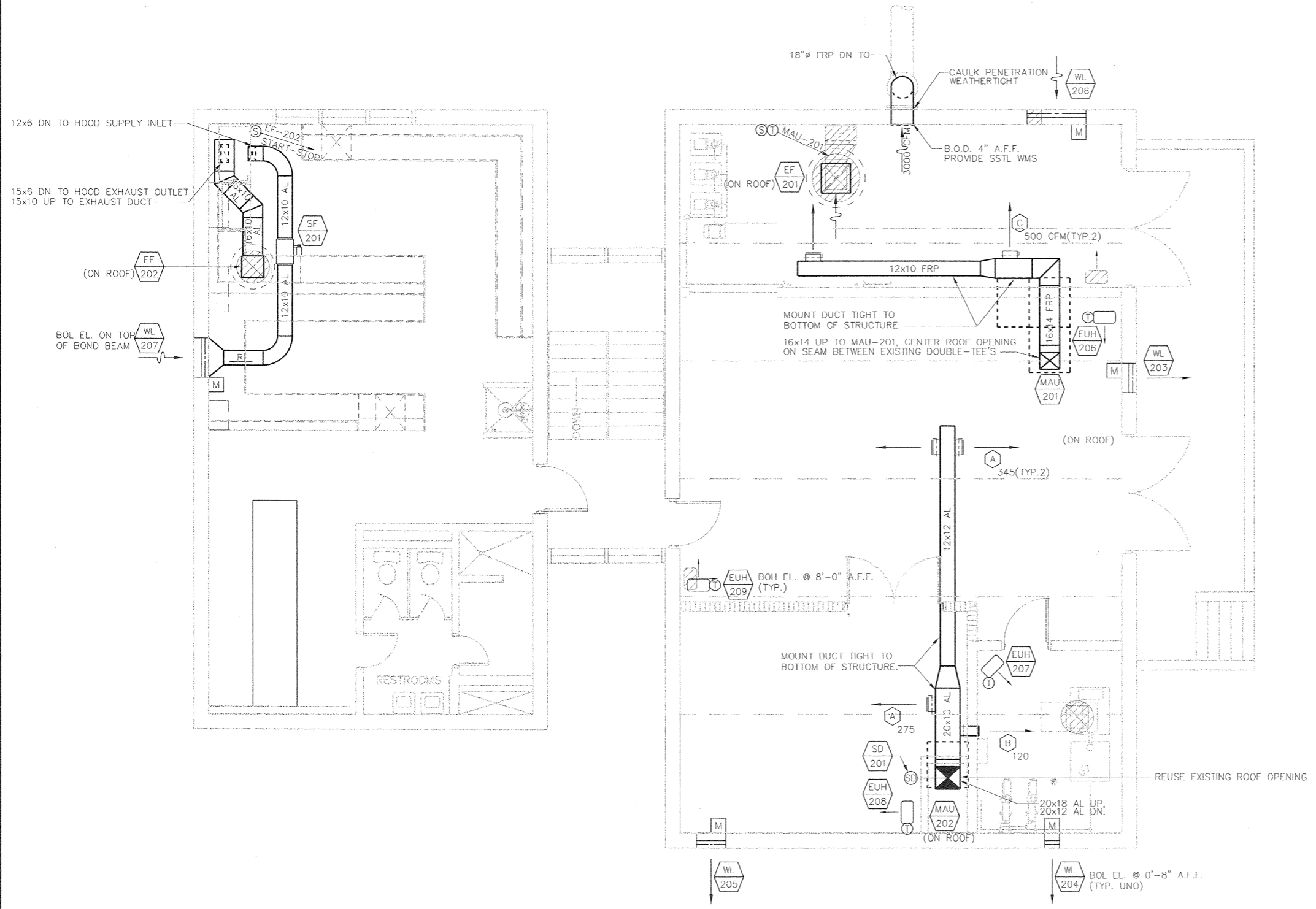


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SOUTH CAROLINA

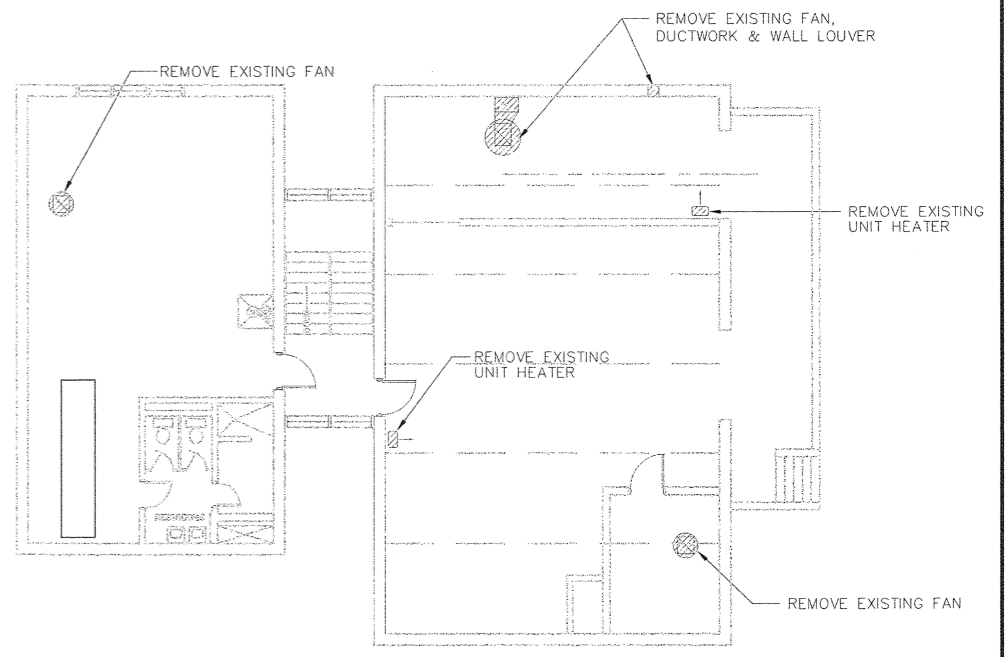


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| ADMINISTRATION & CHEMICAL BUILDING FIRST FLOOR - MECHANICAL | | | |
| DESIGNED: RGS/LWP | CHECKED: | DATE: NOVEMBER 2001 | M2.1 |
| DRAWN: CRC/LWP | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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02.15.02



PLAN
1/4" = 1'-0"



PLAN - DEMOLITION
NO SCALE

- NOTES:
1. PROVIDE TEMPORARY SUSPENSION-TYPE HANGERS FOR EXISTING DIFFUSERS, GRILLES, AND REGISTERS DURING CEILING GRID REPLACEMENT SEE ARCHITECTURAL PLANS FOR REFLECTED CEILING PLAN.
 2. PATCH REMAINING HOLE IN ROOF. FIELD VERIFY EXISTING MATERIALS FOR MATCHING PATCH MATERIALS TO ROOF MATERIALS.

NOTES:
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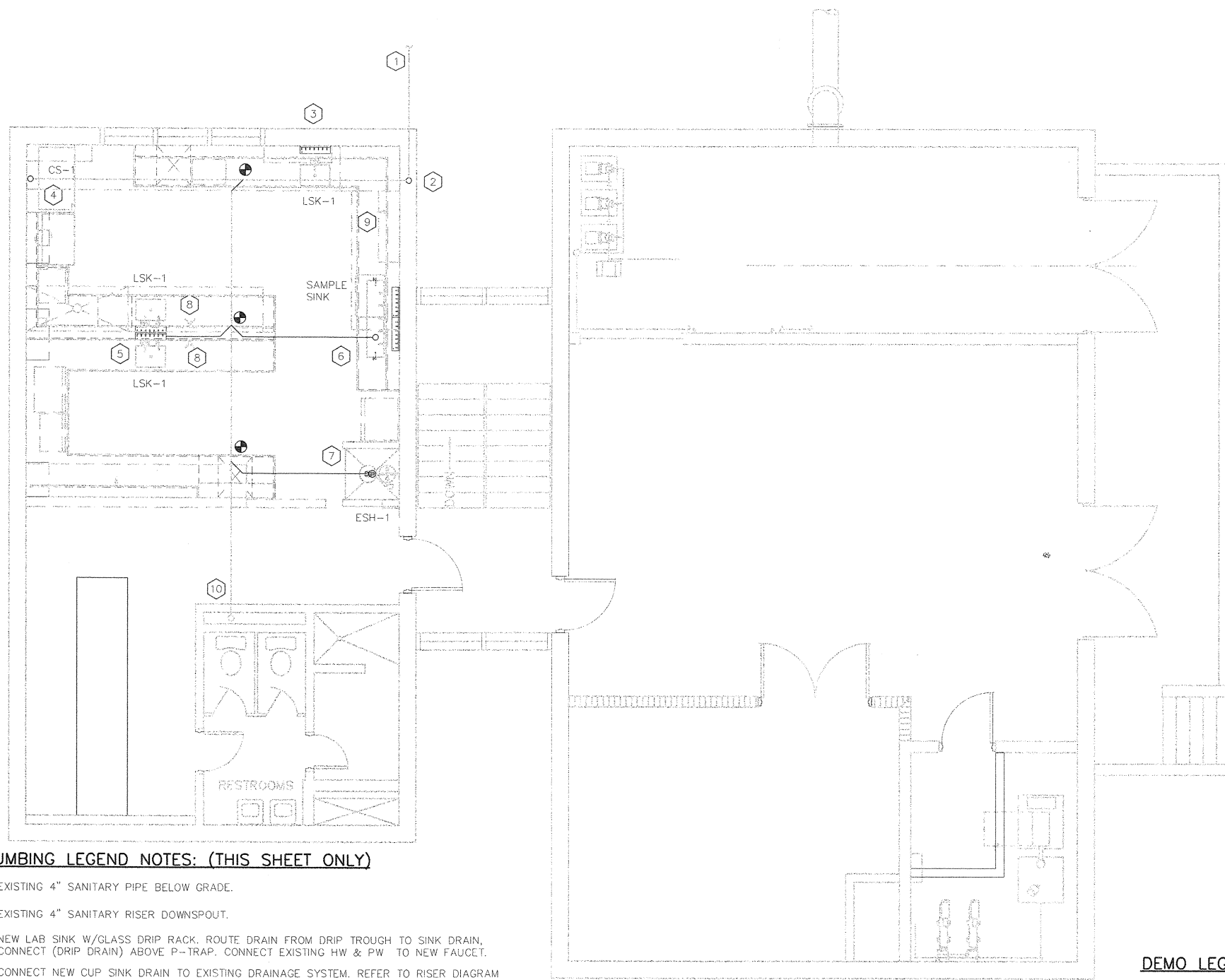


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SOUTH CAROLINA



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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| ADMINISTRATION & CHEMICAL BUILDING SECOND FLOOR - MECHANICAL | | | |
| DESIGNED: RGS | CHECKED: | DATE: NOVEMBER 2008 | M2.2 |
| DRAWN: CRC | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

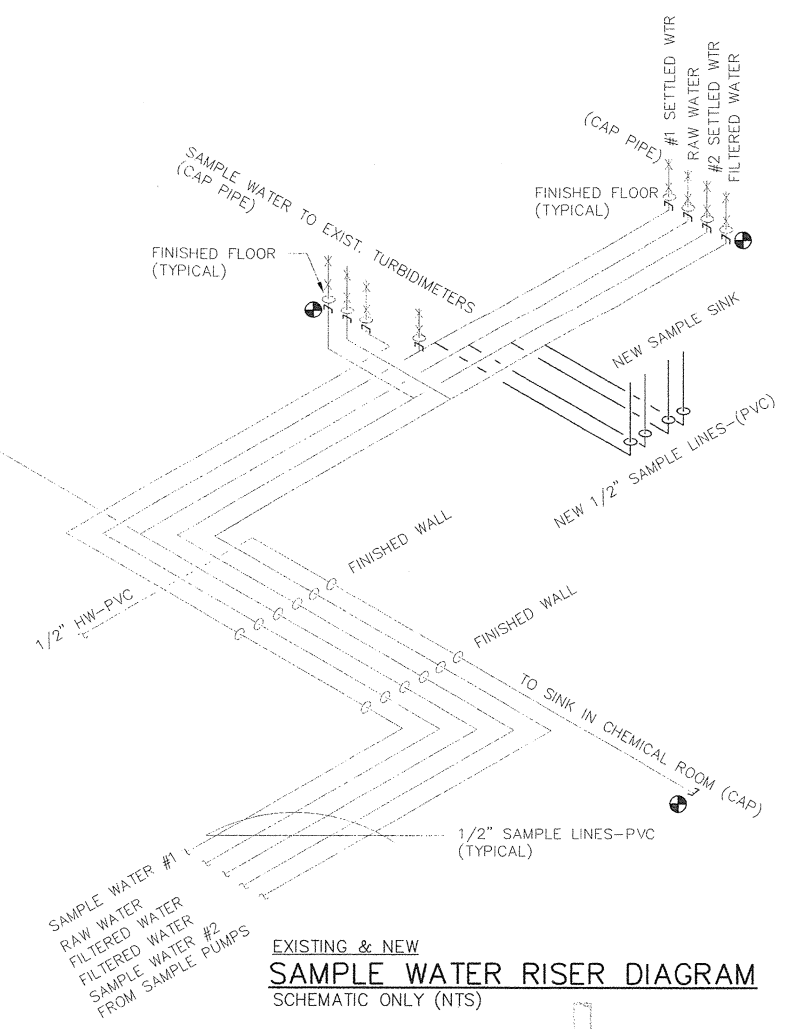
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02.13.02



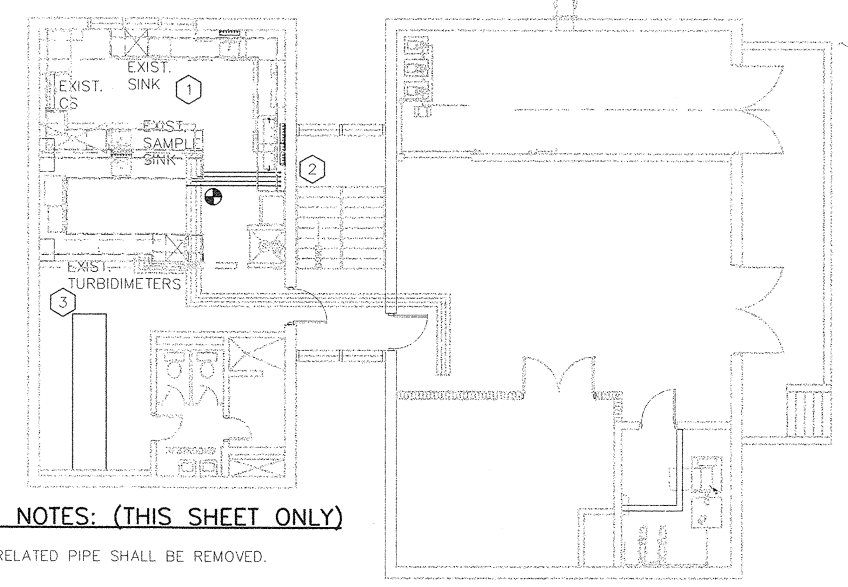
PLUMBING LEGEND NOTES: (THIS SHEET ONLY)

- 1 EXISTING 4" SANITARY PIPE BELOW GRADE.
- 2 EXISTING 4" SANITARY RISER DOWNSPOUT.
- 3 NEW LAB SINK W/GLASS DRIP RACK. ROUTE DRAIN FROM DRIP TROUGH TO SINK DRAIN, CONNECT (DRIP DRAIN) ABOVE P-TRAP. CONNECT EXISTING HW & PW TO NEW FAUCET.
- 4 CONNECT NEW CUP SINK DRAIN TO EXISTING DRAINAGE SYSTEM. REFER TO RISER DIAGRAM DRAWING M2.4
- 5 NEW LAB SINKS W/GLASS DRIP RACK. ROUTE DRAIN FROM DRIP TROUGH TO SINK DRAIN, CONNECT (DRIP DRAIN) ABOVE P-TRAP. CONNECT EXISTING HW & PW TO NEW FAUCET. PROVIDE 1/2" HW SUPPLY & ROUTE DRAIN FROM DISHWASHER TO NEW WASTE PIPE. PROVIDE UNDERCOUNTER DI WATER SYSTEM, REFER TO DETAIL 11/MO.2
- 6 NEW SAMPLE SINK W/GLASS DRIP RACK. ROUTE DRAIN FROM DRIP TROUGH TO SINK DRAIN, CONNECT (DRIP DRAIN) ABOVE P-TRAP. CONNECT EXISTING HW & PW TO NEW FAUCET. ROUTE NEW SAMPLE LINES TO NEW SAMPLE SINK. SEE RISER DIAGRAM, (THIS SHEET).
- 7 NEW 4" FLOOR DRAIN (FD-1); PROVIDE TRAP PRIMER CONNECTION & 1/2" CW SUPPLY. CONNECT NEW 1-1/4" PW TO EXISTING PW, ROUTE TO NEW EMERGENCY SHOWER/EYEWASH.
- 8 PROVIDE UNDERCOUNTER VACUUM & AIR COMPRESSOR, (UNDER SPEC SECTION--DIVISION 12). PROVIDE SHUTOFF VALVE FOR FUTURE CONNECTION TO NATURAL GAS COCK.
- 9 PROVIDE SHUTOFF VALVE FOR FUTURE CONNECTION TO NATURAL GAS COCK.
- 10 EXISTING SANITARY AND VENT RISER SYSTEM SHALL REMAIN.

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



**EXISTING & NEW
SAMPLE WATER RISER DIAGRAM**
SCHEMATIC ONLY (NTS)

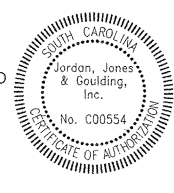


DEMOLITION LEGEND NOTES: (THIS SHEET ONLY)

- 1 EXIST. SINKS & RELATED PIPE SHALL BE REMOVED.
- 2 PROVIDE NEW 1/2" SAMPLE LINES-PVC
- 3 EXIST. TURBIDIMETERS SHALL BE REMOVED.

PLAN - DEMOLITION
NO SCALE

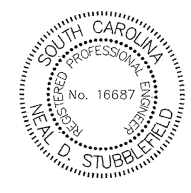
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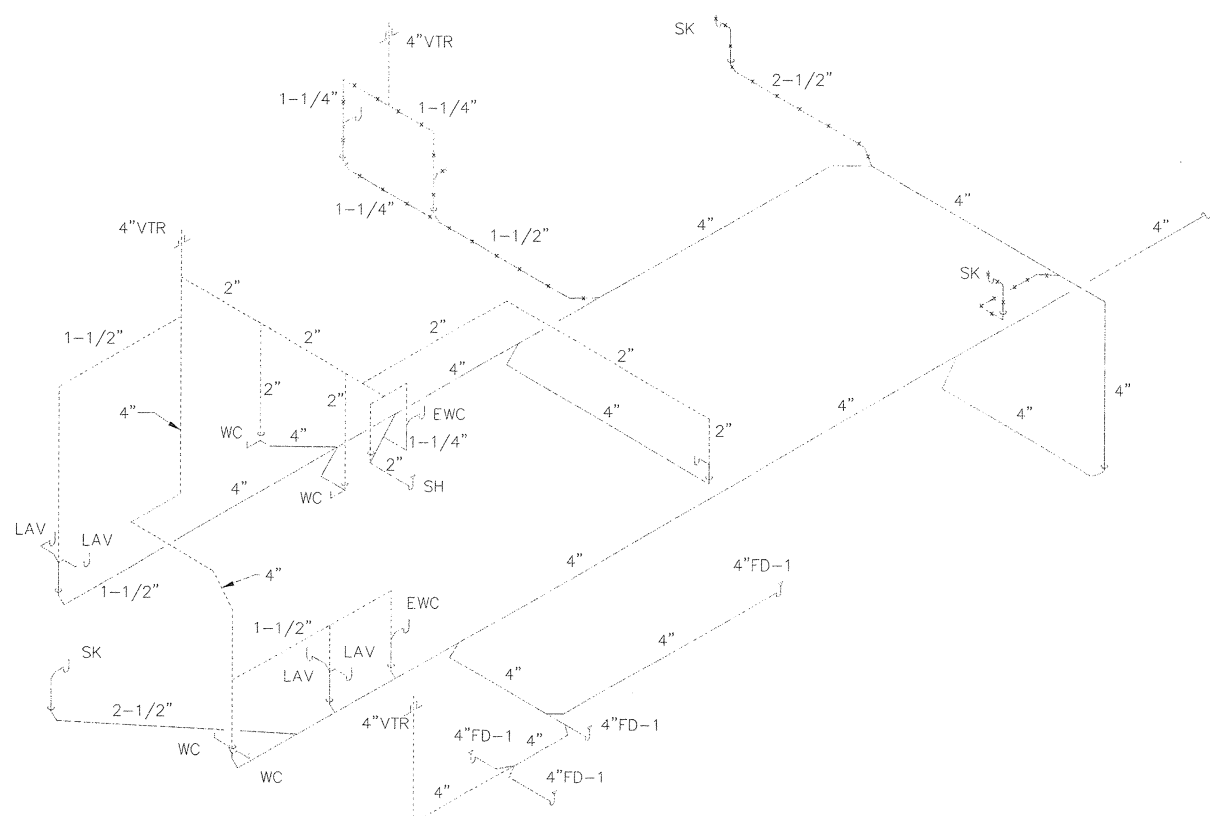


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SOUTH CAROLINA

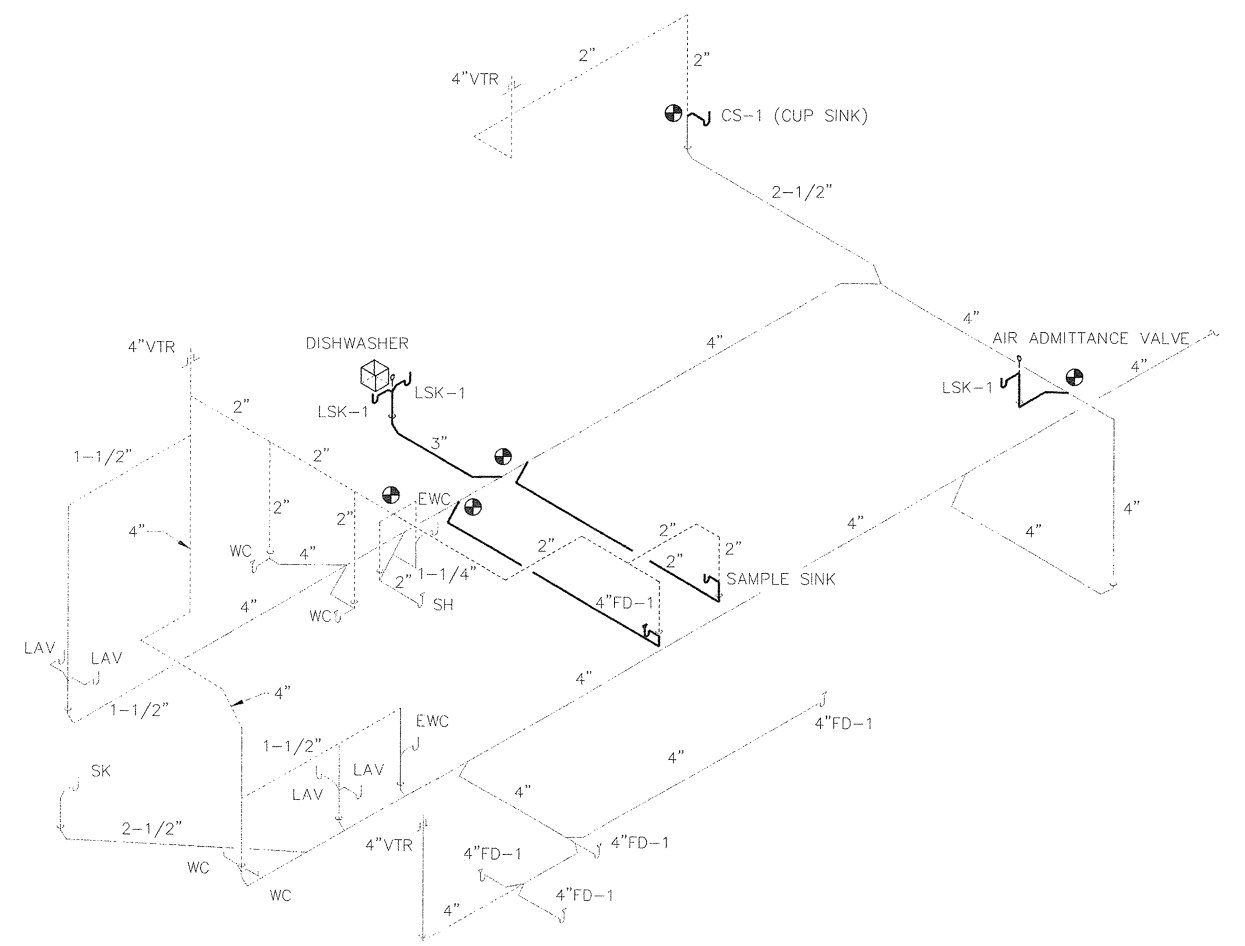


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| ADMINISTRATION & CHEMICAL BUILDING FIRST FLOOR - PLUMBING | | | |
| DESIGNED: LWP | CHECKED: | DATE: NOVEMBER 200 | M2.3 |
| DRAWN: LWP | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 REV |

cog06ma3.dwg
02.11.07



DEMOLITION
EXISTING SANITARY RISER DIAGRAM
 SCHEMATIC ONLY (NTS)



NEW WORK SANITARY RISER DIAGRAM
 SCHEMATIC ONLY (NTS)

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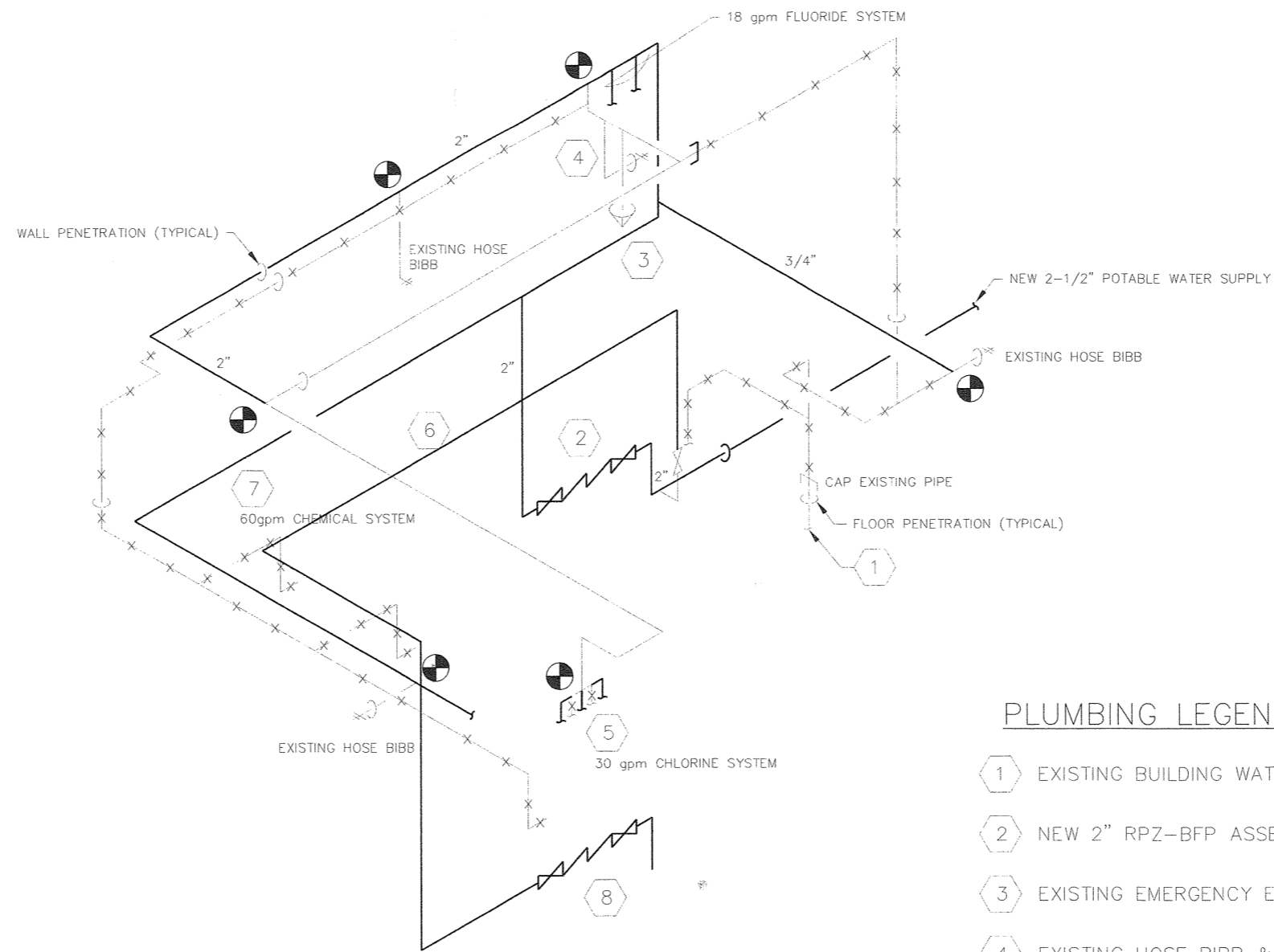


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 SOUTH CAROLINA



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|--|------------------|--------------------|------|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| ADMINISTRATION & CHEMICAL BUILDING RISER DIAGRAMS | | | |
| DESIGNED: LWP | CHECKED: | DATE: NOVEMBER 200 | M2.4 |
| DRAWN: LWP | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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02.13.02



PLANT WATER SYSTEM RISER DIAGRAM
SCHEMATIC ONLY (NTS)

PLUMBING LEGEND NOTES: (this sheet only)

- ① EXISTING BUILDING WATER SERVICE SHALL BE CAPPED & ABANDON.
- ② NEW 2" RPZ-BFP ASSEMBLY, REFER TO DETAIL 8/M02 & SPECIFICATIONS.
- ③ EXISTING EMERGENCY EYEWASH & RELATED PIPING SHALL REMAIN.
- ④ EXISTING HOSE BIBB & RELATED PIPING SHALL REMAIN.
- ⑤ EXISTING & NEW WATER SUPPLY @ CHLORINE ROOM, (BOOSTER PUMPS).
- ⑥ EXISTING SUPPLY PIPING SHALL REMAIN.
- ⑦ 2" TO FIRST FLOOR CHEMICAL SYSTEM.
- ⑧ 1 1/2" --RPZ-BFP ASSEMBLY

NOTES:
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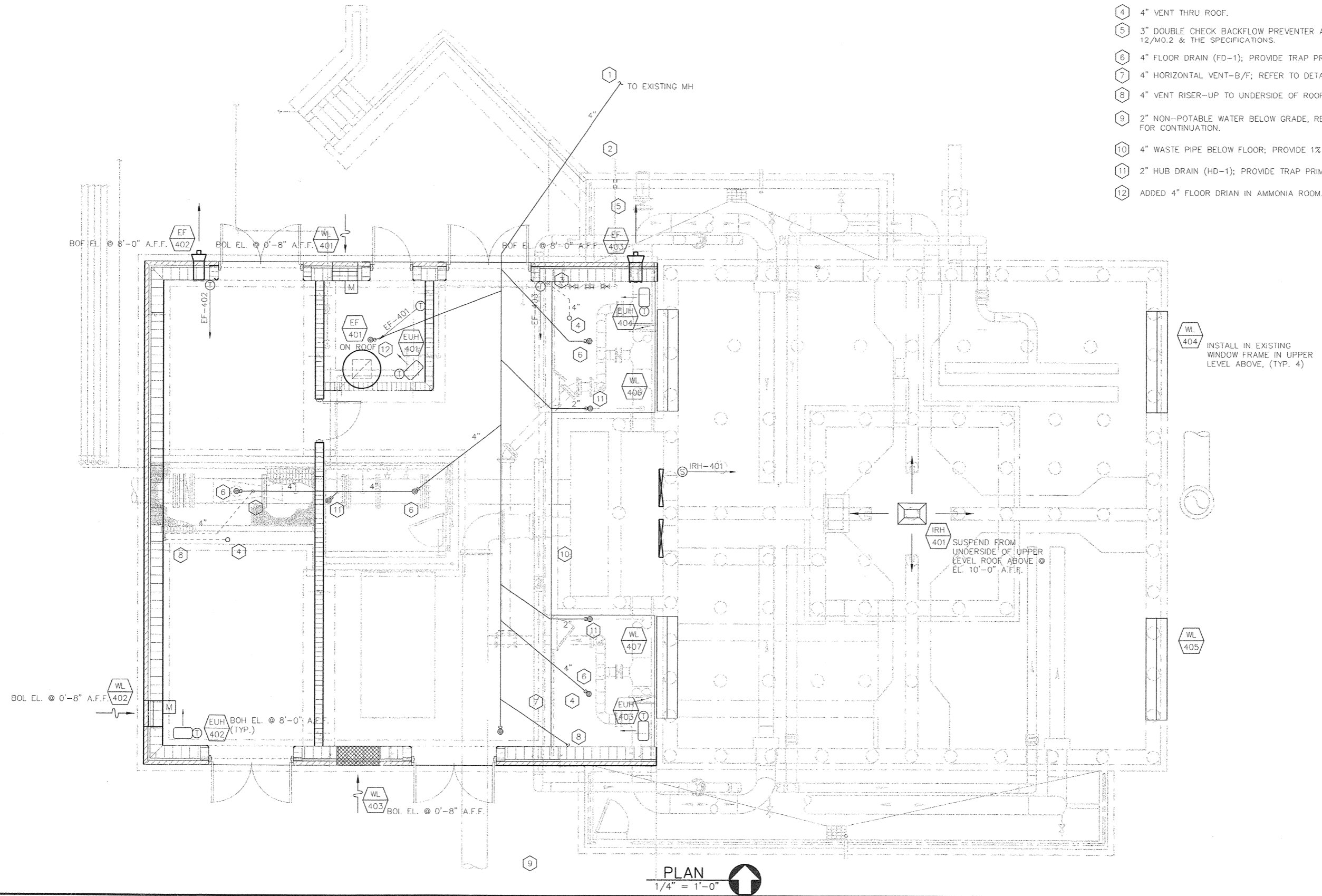
CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

CHEMICAL BUILDING
RISER DIAGRAMS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: LWP | CHECKED: | DATE: NOVEMBER 2001 | M2.5 | 1 |
| DRAWN: LWP | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |



PLUMBING LEGEND NOTES: (THIS SHEET ONLY)

- 1 4" PROCESS WASTE PIPE BELOW GRADE; INV. ELEV. = 18.16 ± REFER TO CIVIL DRAWING FOR CONTINUATION.
- 2 3" POTABLE WATER BELOW GRADE; PROVIDE MIN. 2'-0" COVER OVER PIPE.
- 3 4" VENT PIPE UP TO UNDERSIDE OF STRUCTURE; PROVIDE CLEANOUT @ BASE OF RISER. MOUNT CO MIN 24" AFF.
- 4 4" VENT THRU ROOF.
- 5 3" DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY; REFER TO DETAIL 12/MO.2 & THE SPECIFICATIONS.
- 6 4" FLOOR DRAIN (FD-1); PROVIDE TRAP PRIMER CONNECTION & 1/2" WATER SUPPLY.
- 7 4" HORIZONTAL VENT-B/F; REFER TO DETAIL 3/MO.2
- 8 4" VENT RISER-UP TO UNDERSIDE OF ROOF.
- 9 2" NON-POTABLE WATER BELOW GRADE, REFER TO CIVIL DRAWING FOR CONTINUATION.
- 10 4" WASTE PIPE BELOW FLOOR; PROVIDE 1% SLOPE.
- 11 2" HUB DRAIN (HD-1); PROVIDE TRAP PRIMER CONNECTION & 1/2" WATER SUPPLY.
- 12 ADDED 4" FLOOR DRAIN IN AMMONIA ROOM.

WL 404
INSTALL IN EXISTING WINDOW FRAME IN UPPER LEVEL ABOVE. (TYP. 4)

IRH 401
SUSPEND FROM UNDERSIDE OF UPPER LEVEL ROOF ABOVE @ EL. 10'-0" A.F.F.

PLAN
1/4" = 1'-0"

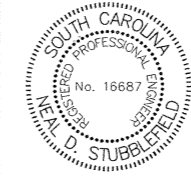
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CITY OF GEORGETOWN
SOUTH CAROLINA



| | | | |
|--|------------------|---------------------|------|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| FILTER BUILDING FLOOR PLAN - MECHANICAL | | | |
| DESIGNED: RGS/LWP | CHECKED: | DATE: NOVEMBER 2001 | M4.1 |
| DRAWN: CRC/LWP | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

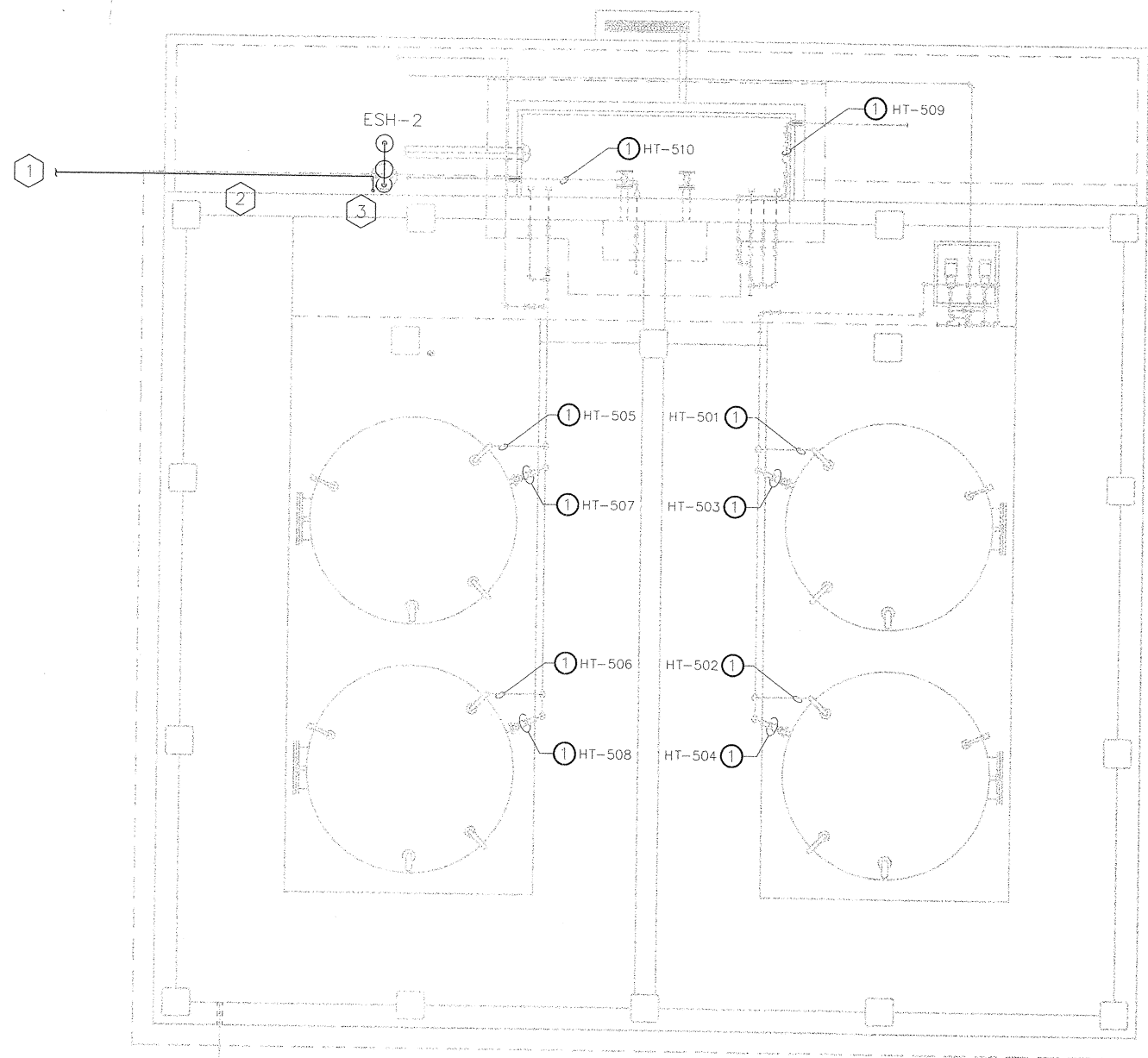
C:\proj\2193\006\2193006.dwg

MECHANICAL NOTES: (this sheet only)

① HEAT TRACE AND INSULATE EXPOSED PIPE. SEE PROCESS DRAWINGS FOR ELEVATIONS SHOWING WHERE PIPING IS EXPOSED.

PLUMBING LEGEND NOTES: (THIS SHEET ONLY)

- ① 2" POTABLE WATER BELOW GRADE. REFER TO CIVIL DRAWING FOR CONTINUATION.
- ② 1-1/4" POTABLE WATER, ROUTE PIPE BELOW SLAB.
- ③ 1-1/4" POTABLE WATER -- UP TO EMERGENCY SHOWER/EYEWASH (ESH-2).



PLAN
1/4" = 1'-0"

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CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

**BULK CHEMICAL STORAGE
MECHANICAL**

| | | | | |
|-------------------|------------------|---------------------|-------|-----|
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| DRAWN: CRC/LWP | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

05/08/01 6:49
02/13/02

CONTROL/ONE-LINE SYMBOLS

- SELECTOR SWITCH, DPTT
- PUSHBUTTON, NORMALLY OPEN
- PUSHBUTTON, NORMALLY CLOSED
- MAINTAINED LOCK-OUT SWITCH, N.O.
- MAINTAINED LOCK-OUT SWITCH, N.C.
- SELECTOR SWITCH, SPST
- SWITCH, NORMALLY OPEN (TYP)
- SWITCH, NORMALLY CLOSED (TYP)
- TIME DELAY PICK-UP
- TIME DELAY DROPOUT
- LIMIT SWITCH
- PRESSURE SWITCH
- LEVEL SWITCH
- TEMPERATURE SWITCH
- FLOW SWITCH
- RELAY COIL
- CONTACT, NORMALLY OPEN
- CONTACT, NORMALLY CLOSED
- CAPACITOR
- INDICATING LIGHT, LETTER DENOTES COLOR
- ANNUNCIATOR LIGHT
- WIRING NOT CONNECTED
- WIRING CONNECTED
- GROUND CONNECTION
- TERMINAL
- REMOTE LOCATION
- HEATER OR HEATING ELEMENT
- ELAPSED TIME METER
- FUSE
- CURRENT TRANSFORMER, RATIO AS INDICATED
- TRANSFORMER
- CIRCUIT BREAKER, TRIP/FRAME OR AMPS/POLES
- DISCONNECT STAB
- HIGH VOLTAGE CIRCUIT BREAKER
- DISCONNECT SWITCH
- OVERLOAD ELEMENT
- KIRK KEY INTERLOCK
- AMMETER SWITCH AND AMMETER
- VOLTMETER SWITCH AND VOLTMETER
- WATTMETER
- VARIABLE FREQUENCY DRIVE
- SOLID STATE REDUCED VOLTAGE STARTER
- AVAILABLE SHORT CIRCUIT CURRENT, RMS SYMMETRICAL MOMENTARY VALUE

ELECTRICAL SYMBOLS

- FA - FLUORESCENT FIXTURE. LETTERS DENOTE FIXTURE TYPE (TYPICAL). SHADING INDICATES NIGHTLIGHT (TYPICAL). NUMERAL INDICATES CIRCUIT NUMBER (TYPICAL). SUBSCRIPT CORRESPONDS WITH SIMILARLY IDENTIFIED SWITCH OR MULTI-WAY SWITCH GROUP (TYPICAL)
- HA - LIGHTING FIXTURE, FLUSH IN CEILING
- HA - LIGHTING FIXTURE, SURFACE ON OR PENDANT MOUNT FROM CEILING
- HA - LIGHTING FIXTURE, WALL MOUNTED
- HA/PA - POLE AND LIGHTING FIXTURE
- XA - EXIT LIGHT SURFACE MOUNTED ON CEILING, ARROWS INDICATE DIRECTION
- XA - EXIT LIGHT SURFACE MOUNTED ON WALL, ARROWS INDICATE DIRECTION
- BA - BATTERY POWERED EMERGENCY LIGHT
- PE - PHOTOELECTRIC CELL
- DUPLEX RECEPTACLE, 18" AFF UNLESS OTHERWISE INDICATED. NUMERAL INDICATES CIRCUIT NUMBER (TYPICAL)
- DUPLEX RECEPTACLE, 48" AFF OR 6" ABOVE COUNTER TOP
- K - TELEPHONE OUTLET IN WALL, BUSHED HOLE IN PLATE WITH EMPTY 1" CONDUIT HOMERUN WITH PULL WIRE TO TELEPHONE BACKBOARD, 18" AFF UNLESS OTHERWISE INDICATED
- T - 3/4" PLYWOOD BACKBOARD FOR TELEPHONE (HEIGHT AND WIDTH AS INDICATED)
- S - SINGLE POLE SWITCH, 48" AFF UNLESS OTHERWISE INDICATED. NUMERAL IN PARENTHESIS INDICATES CIRCUIT NUMBER (TYPICAL). SUBSCRIPT CORRESPONDS WITH SIMILARLY IDENTIFIED LIGHTING FIXTURES (TYPICAL)
- S2 - DOUBLE POLE SWITCH, 48" AFF UNLESS OTHERWISE INDICATED
- S3 - THREE WAY SWITCH, 48" AFF UNLESS OTHERWISE INDICATED
- S4 - FOUR WAY SWITCH, 48" AFF UNLESS OTHERWISE INDICATED
- SM - MANUAL MOTOR STARTER, SINGLE POLE 1 Hp UNLESS OTHERWISE INDICATED
- WIRING IN CONDUIT CONCEALED IN OR ABOVE CEILING OR IN WALL
- WIRING IN CONDUIT CONCEALED IN OR UNDER FLOOR, OR UNDERGROUND CONCRETE ENCASED SINGLE CONDUIT DUCTBANK
- WIRING IN CONDUIT EXPOSED ON CEILING OR WALL
- BRANCH CIRCUIT WIRING IN 3/4" CONDUIT HOMERUN AS INDICATED. ONE ARROW PER CIRCUIT. SLASHES INDICATE NUMBER OF CONDUCTORS, #12 UNLESS OTHERWISE INDICATED
- SIGNAL CONDUCTOR IN 3/4" CONDUIT, #16TSP UNLESS OTHERWISE INDICATED
- SEAL-OFF FITTING IN EXPOSED CONDUIT
- EMPTY CONDUIT CAPPED AND TAGGED "SPARE, TO _____"
- CONDUIT TURNS UP (TOWARDS VIEWER)
- CONDUIT TURNS DOWN (AWAY FROM VIEWER)
- FLEXIBLE CONDUIT CONNECTION
- INDICATES CONDUCTORS IN 3/4" CONDUIT UNLESS OTHERWISE INDICATED: "A" INDICATES ANALOG SIGNAL CONDUCTORS. SEE SCHEDULE. "C" INDICATES DISCRETE OR CONTROL CONDUCTORS. SEE SCHEDULE. "D" INDICATES DATA HIGHWAY CONDUCTORS. SEE SCHEDULE. "H" INDICATES POWER CONDUCTORS ABOVE 240 VOLTS. SEE SCHEDULE. "L" INDICATES POWER CONDUCTORS 240 VOLTS AND BELOW. SEE SCHEDULE. "P" INDICATES POWER CONDUCTORS ABOVE 600 VOLTS. SEE SCHEDULE.
- INDICATES UNDERGROUND ELECTRICAL DUCTBANK. SEE SCHEDULE
- D - UNDERGROUND ELECTRICAL DUCTBANK. SEE DETAIL (TYPICAL)
- UT - UNDERGROUND TELEPHONE DUCTBANK
- UC - UNDERGROUND COMMUNICATION OR DATA HIGHWAY DUCTBANK
- G - 4/0 BARE COPPER GROUND WIRE
- LP - LIGHTNING PROTECTION CABLE
- UE - EXISTING UNDERGROUND ELECTRICAL DUCTBANK
- UEC - EXISTING UNDERGROUND COMMUNICATION OR DATA HIGHWAY DUCTBANK
- UED - EXISTING UNDERGROUND ELECTRICAL DUCTBANK TO BE DEMOLISHED OR ABANDONED, CAPPED AND TAGGED
- E - EXISTING OVERHEAD POWER LINES
- E - ELECTRICAL MANHOLE OR HANDHOLE. SIZE AS INDICATED (L x W x D): "C" INDICATES CONTROL, COMMUNICATION OR DATA HIGHWAY. "E" INDICATES SECONDARY DISTRIBUTION. "P" INDICATES PRIMARY DISTRIBUTION. "T" INDICATES TELEPHONE.
- GROUND ROD
- POWER POLE

ELECTRICAL SYMBOLS

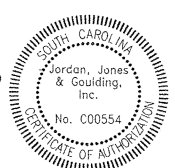
- PANELBOARD, 240 VOLTS AND BELOW. SEE SCHEDULE
- PANELBOARD, ABOVE 240 VOLTS. SEE SCHEDULE
- SUPPORT STAND/EQUIPMENT RACK. SEE DETAIL
- DEVICE REQUIRING ELECTRICAL CONNECTION, TYPE AS INDICATED (INSTRUMENT DESIGNATIONS PER ISA)
- MOTOR STARTER, VOLTAGE/NEMA SIZE/NEMA ENCLOSURE
- COMBINATION MOTOR STARTER, VOLTAGE/NEMA SIZE/NEMA ENCLOSURE
- CONTROLLER FURNISHED WITH EQUIPMENT
- NON-FUSED SAFETY SWITCH, AMPS/POLES/NEMA ENCLOSURE
- FUSED SAFETY SWITCH, AMPS/FUSE/POLES/NEMA ENCLOSURE
- ENCLOSED CIRCUIT BREAKER, AMPS/POLES/NEMA ENCLOSURE
- T - TRANSFORMER, KVA RATING AS INDICATED ON ONE LINE DIAGRAM
- M - MOTOR, Hp AS INDICATED ON ONE LINE DIAGRAM OR ON PLAN
- G - GENERATOR, kW AS INDICATED ON ONE LINE DIAGRAM
- D - OVERHEAD DOOR OPERATOR COMPLETE WITH WIRING TO PUSHBUTTONS, STARTER, LIMIT SWITCHES AND OTHER ACCESSORIES
- J OR Q - OUTLET BOX, JUNCTION BOX OR PULL BOX. LETTERS/NUMERALS INDICATE NEMA TYPE OTHER THAN NEMA 1
- CONTROL STATION
- F - FIRE ALARM DEVICE: "F" INDICATES MANUAL PULLSTATION MOUNTED 60" AFF. "FL" INDICATES FLAME DETECTOR MOUNTED 60" AFF. "FS" INDICATES SPRINKLER FLOW SWITCH. "H" INDICATES HEAT DETECTOR MOUNTED ON CEILING. "P" INDICATES PHOTOELECTRIC IONIZATION DETECTOR MOUNTED ON CEILING. "S" INDICATES SMOKE DETECTOR MOUNTED ON CEILING. "TS" INDICATES SPRINKLER TAMPER SWITCH. "V" INDICATES VISUAL INDICATOR (STROBE) MOUNTED AS INDICATED.
- S - SMOKE DETECTOR, DUCT MOUNTED
- FIRE ALARM SYSTEM HORN MOUNTED 6'-8" AFF
- FIRE ALARM SYSTEM HORN AND STROBE MOUNTED 6'-8" AFF
- ***** - EQUIPMENT TAG

ABBREVIATIONS

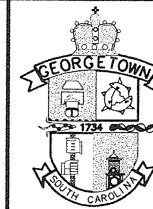
- AL - ALUMINUM OR ALUM
- CL - CHLORINE
- CV - CONTROL VALVE
- CW - CLEARWELL
- EFF - EFFLUENT
- EQ - EQUALIZATION
- FBM - FLOCCULATION BASIN MIXER
- FC - FERRIC CHLORIDE OR FILTER CONSOLE
- FCV - FLOW CONTROL VALVE
- FL - FLUORIDE
- FLFP - FLUORIDE FEED PUMP
- FLOC - FLOCCULATOR
- HPFP - HYDROGEN PEROXIDE FEED PUMP
- HSP - HIGH SERVICE PUMP
- HSPS - HIGH SERVICE PUMP STATION
- INF - INFLUENT
- LOX - LIQUID OXYGEN
- OZ - OZONE
- P - PUMP
- PFP - POLYMER FEED PUMP
- PHFP - CORROSION INHIBITOR FEED PUMP
- PCV - PRESSURE CONTROL VALVE
- PE - PROCESS EQUIPMENT
- PWP - PLANT WATER PUMP
- PY - POLYMER
- SAMP - SAMPLE
- SC - SCUM
- SP - SUMP PUMP
- ST - SLUDGE THICKENER
- T - TANK
- TR - TRANSFER
- WW - WASH WATER
- AF - ABOVE FINISHED FLOOR
- AFG - ABOVE FINISHED GRADE
- AIC - AMPS INTERRUPTING CAPACITY
- ATS - AUTOMATIC TRANSFER SWITCH
- C - CONDUIT
- CPT - CONTROL POWER TRANSFORMER
- CR - CORROSION RESISTANT, NEMA 4X
- CT - CURRENT TRANSFORMER
- CU - COPPER
- EC - EMPTY CONDUIT
- EDF - ELECTRIC DRINKING FOUNTAIN
- EDH - ELECTRIC DUCT HEATER
- EF - EXHAUST FAN
- ELP - EXISTING LIGHT POLE AND FOUNDATION TO BE REMOVED
- EMH - ELECTRICAL MANHOLE
- EPB - PULLBOX FOR EMERGENCY POWER CONDUCTORS
- EX - EXISTING
- EXP - EXPLOSIONPROOF
- FACP - FIRE ALARM CONTROL PANEL
- FCP - FACTORY CONTROL PANEL (PROVIDED WITH EQUIPMENT)
- FVNR - FULL VOLTAGE, NON-REVERSING
- FVR - FULL VOLTAGE, REVERSING
- FWE - FURNISHED WITH EQUIPMENT
- G - GROUND
- GFI - GROUND FAULT INTERRUPTING
- GRC - GALVANIZED RIGID STEEL CONDUIT
- HT - ELECTRICAL HEAT TRACE
- LCP - LOCAL CONTROL PANEL (PROVIDED UNDER DIVISION 17)
- LCT - LIGHTING CONTACTOR
- MB - MAIN BREAKER
- MCC - MOTOR CONTROL CENTER
- MCCB - MOLDED CASE CIRCUIT BREAKER
- MCP - MOTOR CIRCUIT PROTECTOR OR MAIN CONTROL PANEL
- MD - MOTORIZED DAMPER
- MH - MANHOLE
- ML - MAIN LUGS
- MLO - MAIN LUGS ONLY
- NC - NORMALLY CLOSED
- NO - NORMALLY OPEN
- OL - OVERLOAD
- P - PUMP
- PB - PULLBOX
- PS - PUMPING STATION
- PT - POTENTIAL TRANSFORMER
- RVAT - REDUCED VOLTAGE AUTOTRANSFORMER
- SF - SUPPLY FAN
- SHLD - SHIELDED CABLE
- SS - STAINLESS STEEL OR SUBSTATION
- SSRV - SOLID STATE REDUCED VOLTAGE
- SV - SOLENOID VALVE
- TS - TWISTED, SHIELDED
- TSP - TWISTED, SHIELDED PAIR
- TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSOR
- UH - UNIT HEATER
- VFD - VARIABLE FREQUENCY DRIVE
- WL - WALL LOUVER
- WP - WEATHERPROOF, NEMA 4 OR 3R
- 2S2W - TWO SPEED TWO WINDING

ELECTRICAL ABBREVIATIONS

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CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

ELECTRICAL SYMBOLS LEGEND

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2000 | E0.1 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: NONE | SHEET | REV |

02.13.02

UTILITY COMPANY SERVICE
12,470V
1000kVA
12,470-480Y/277V
3Ø, 4W
5x3-500kcmil,
3/ØG

MCC-1: EXISTING WESTINGHOUSE
600A, 480/277V, 3Ø, 4W,
ADMINISTRATION AND CHEMICAL BUILDING

MSG: EXISTING WESTINGHOUSE
SO#CN37300408
2000A, 480V, 3Ø, 3W



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CITY OF GEORGETOWN
SOUTH CAROLINA

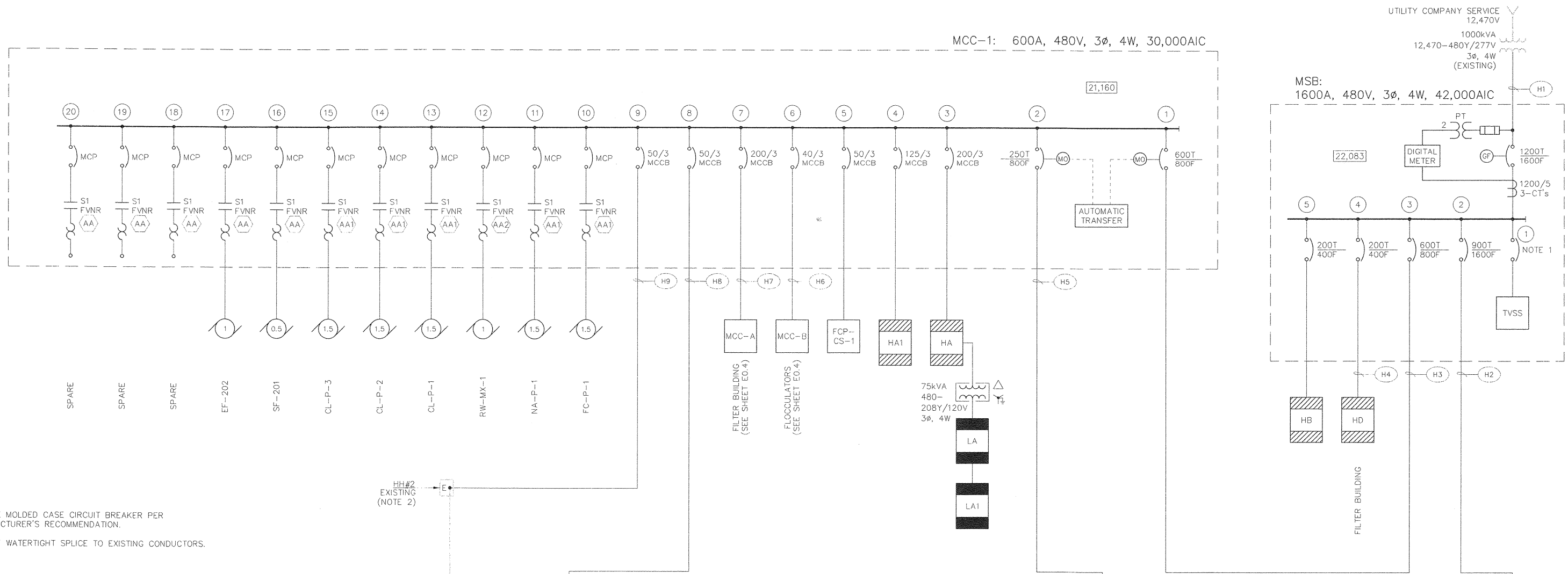


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

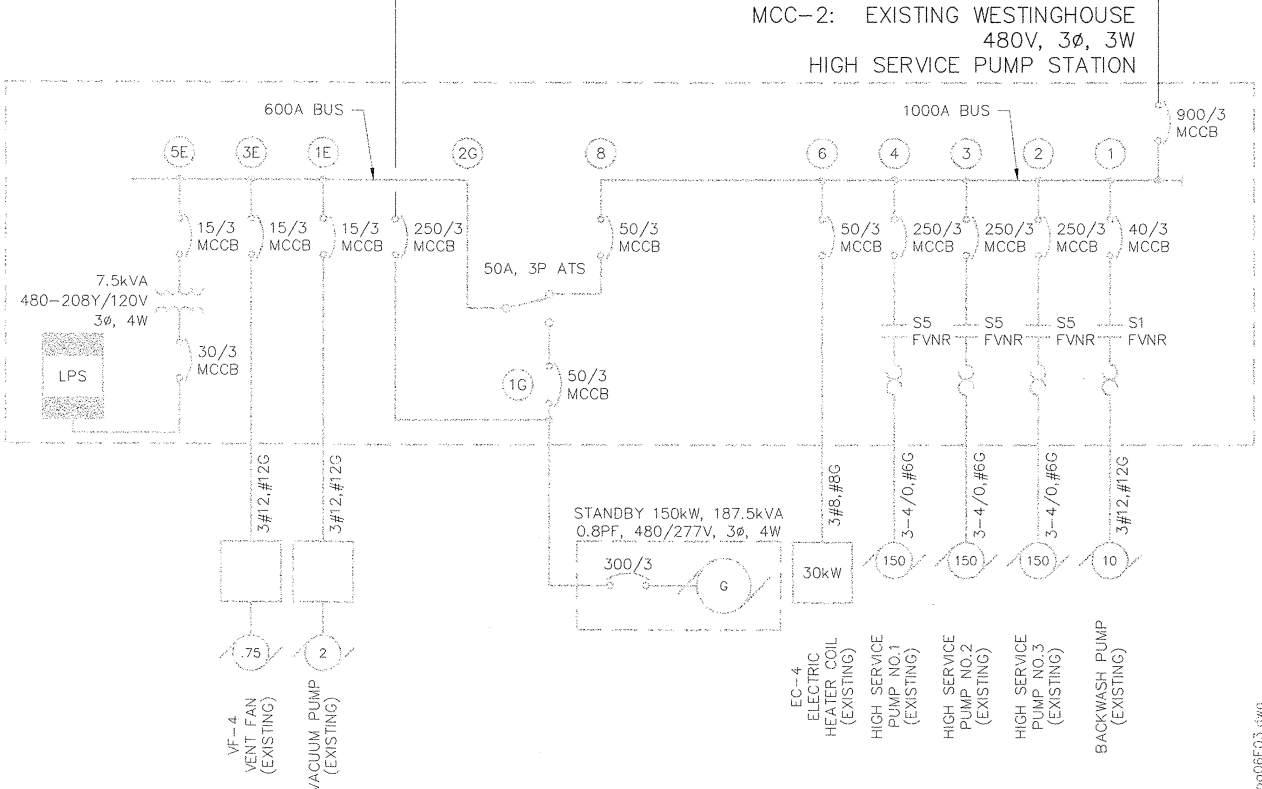
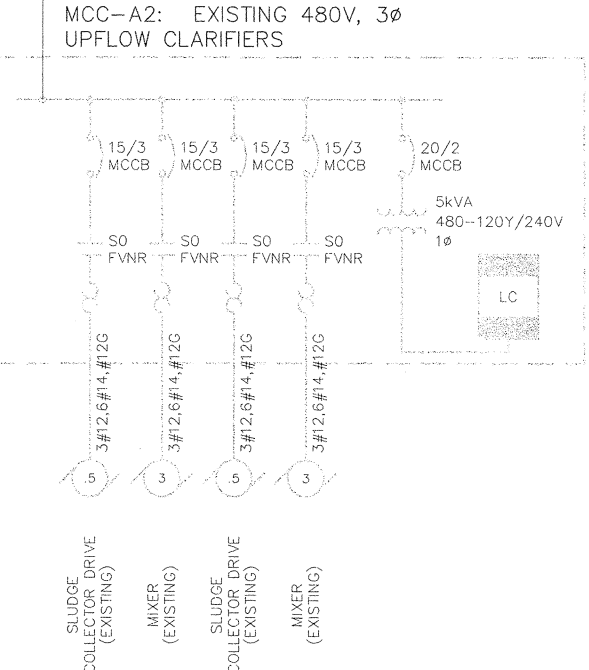
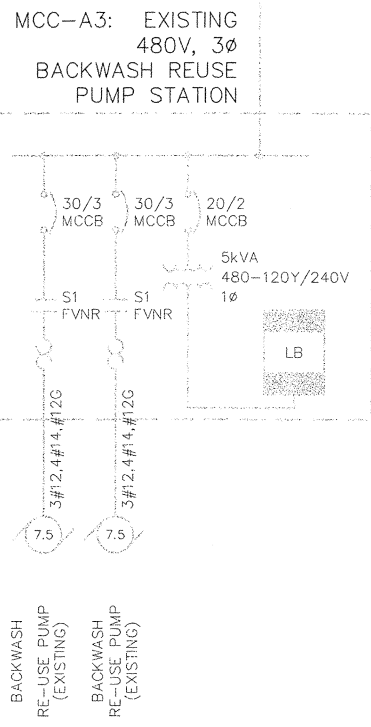
ELECTRICAL ONE-LINE DIAGRAM
DEMOLITION

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2000 | E0.2 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: NONE | SHEET | REV |

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02.11.02

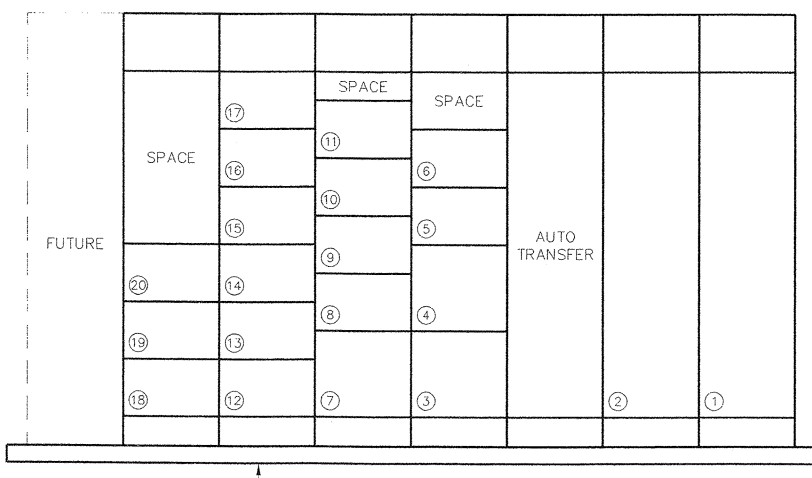
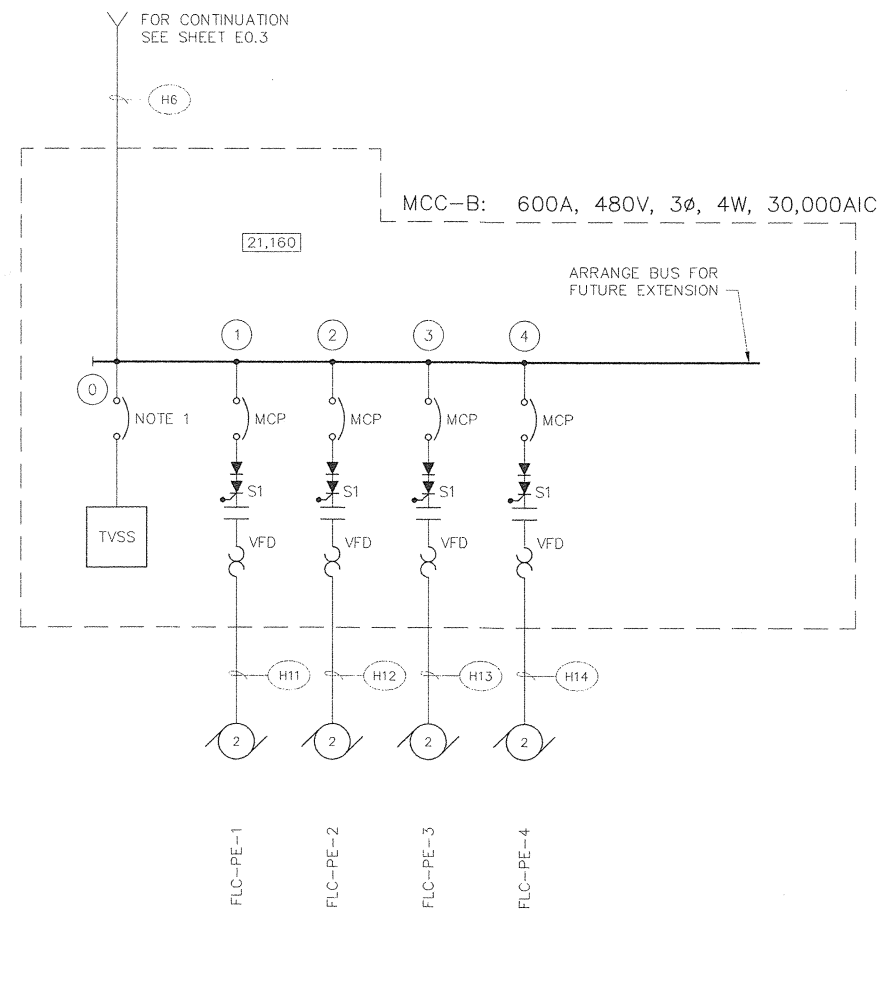
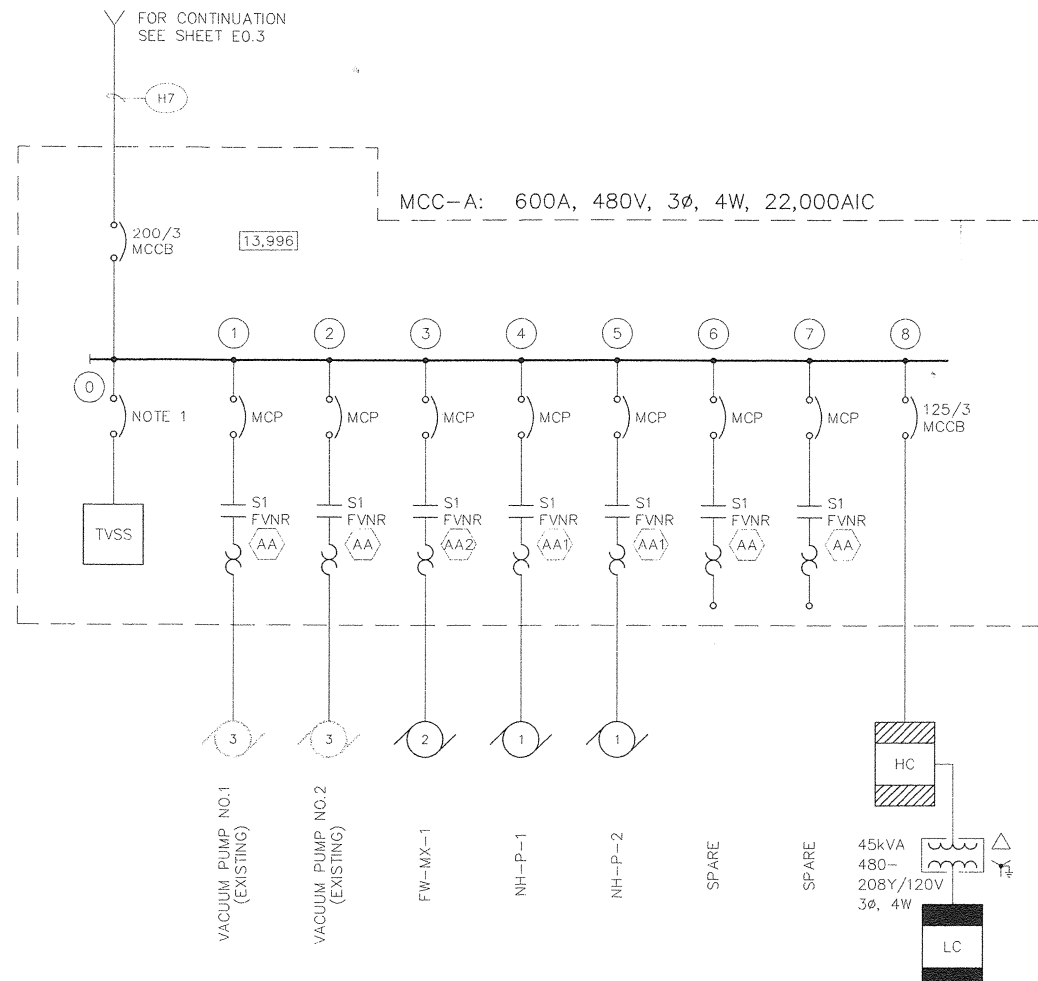


- NOTES:**
1. PROVIDE MOLDED CASE CIRCUIT BREAKER PER MANUFACTURER'S RECOMMENDATION.
 2. PROVIDE WATERTIGHT SPLICE TO EXISTING CONDUCTORS.

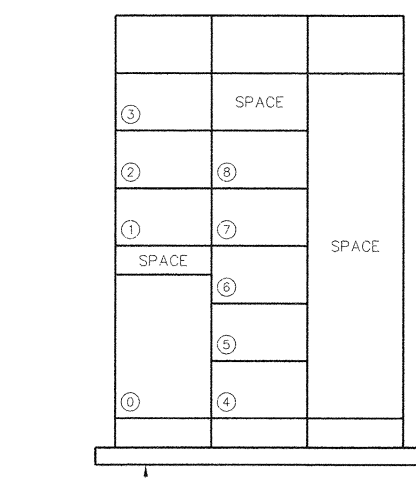


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|---|------------------|--------------------|-------|-----|--|--|--|---|--|
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| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 200 | E.O.3 | 1 | | | | | |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: NONE | SHEET | REV | | | | | |

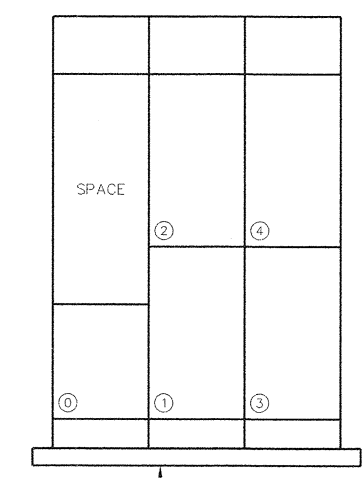
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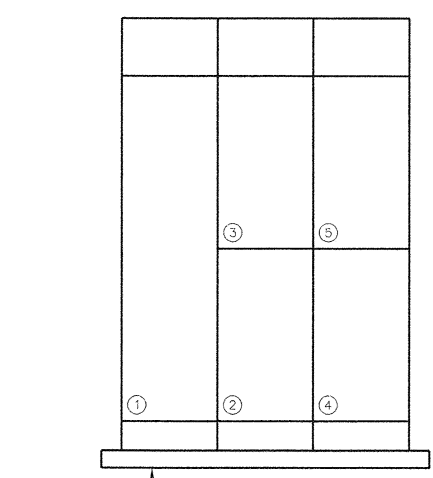
MCC-1 FRONT ELEVATION
N.T.S.



MCC-A FRONT ELEVATION
N.T.S.



MCC-B FRONT ELEVATION
N.T.S.



MSB FRONT ELEVATION
N.T.S.

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SOUTH CAROLINA

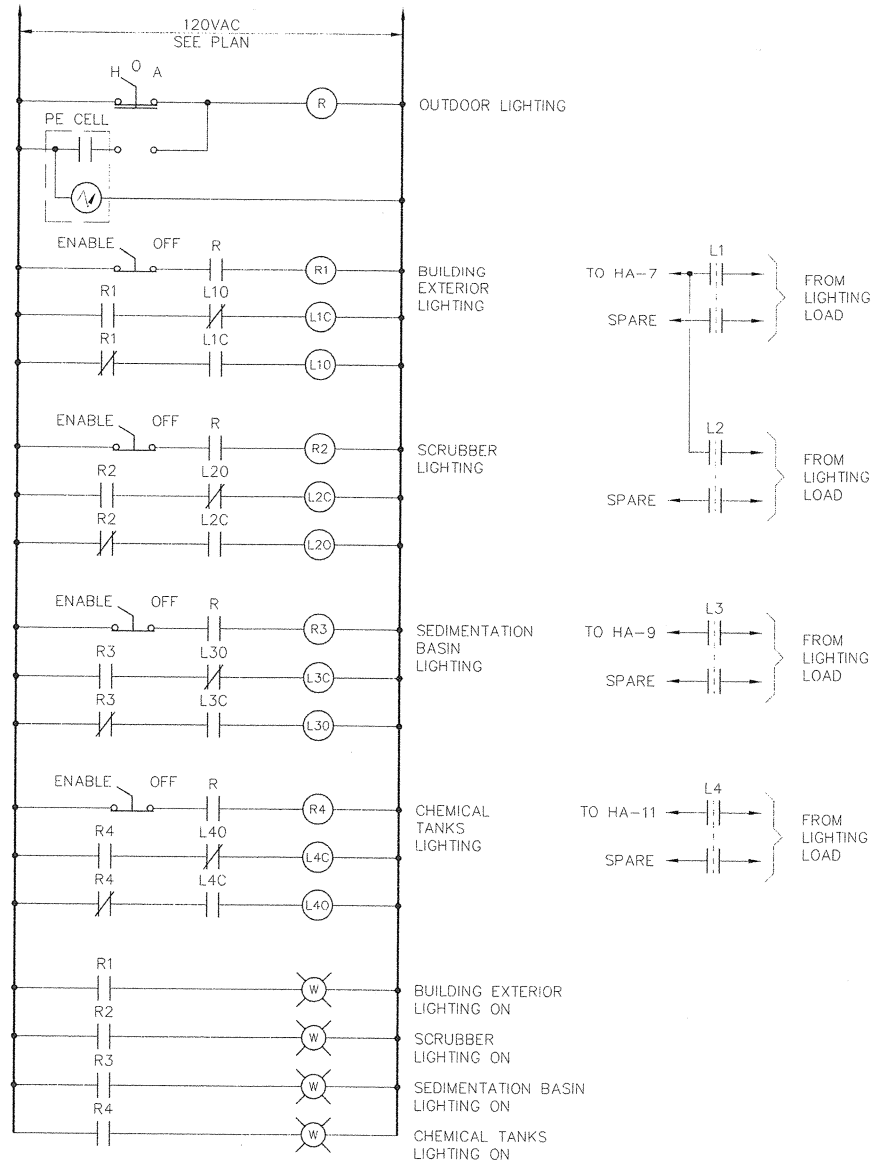


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

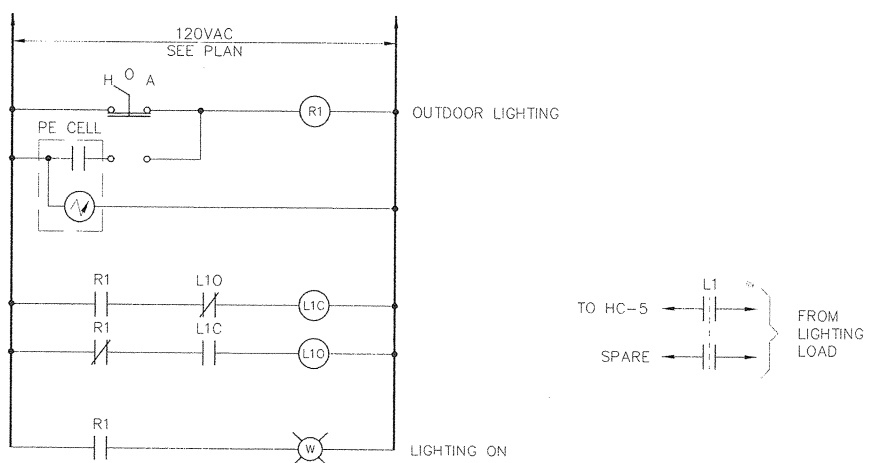
**ELECTRICAL ONE-LINE DIAGRAM
MCC-A, MCC-B AND ELEVATIONS**

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2004 | E0.4 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: NONE | SHEET | REV |

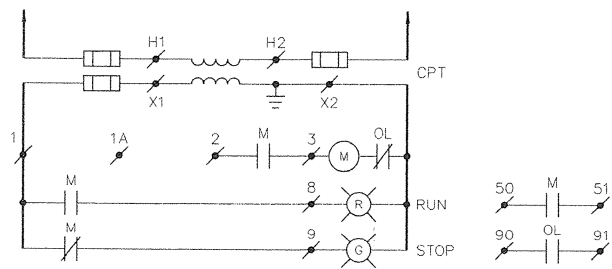
COPY: E0.4 - Jwj
02/15/02



LCTA: LIGHTING CONTROL DIAGRAM
MOUNT IN NEMA 12 ENCLOSURE



LCTC: LIGHTING CONTROL DIAGRAM
MOUNT IN NEMA 12 ENCLOSURE

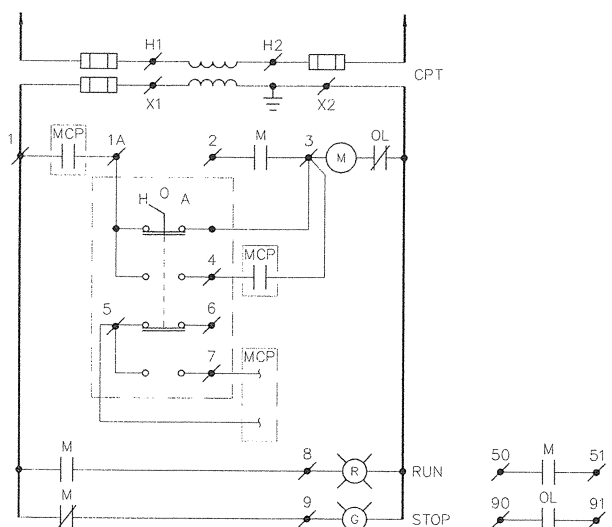


STARTER TYPE AA

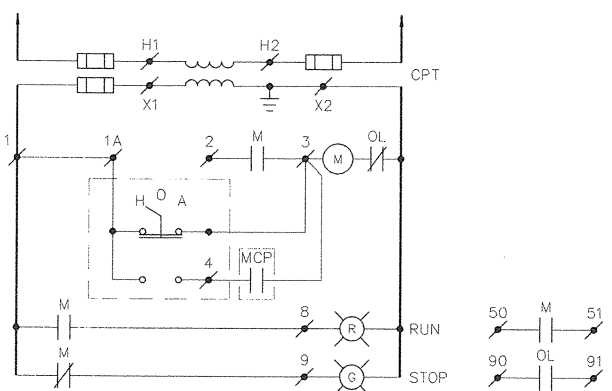
NOTE:
TYPE AA STARTERS FOR MECHANICAL EQUIPMENT SHALL BE CONFIGURED AS FOLLOWS:

| EF/SF-**** | INTERFACE | ACCESSORY | CPT |
|------------|-----------|-----------|-------------|
| SF-201 | EF-202 | WL-207 | 150VA SPARE |
| EF-202 | FUME HOOD | | 150VA SPARE |

COORDINATE CONTROLS WITH THE REQUIREMENTS OF DIVISION 15.



STARTER TYPE AA1



STARTER TYPE AA2

LEGEND

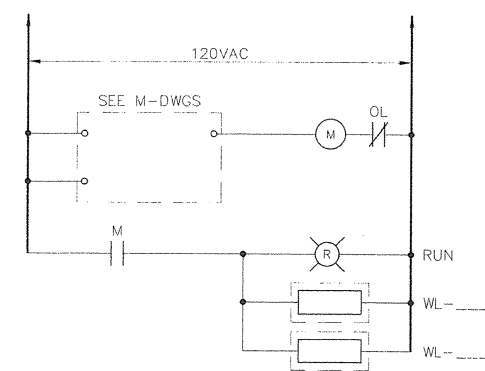
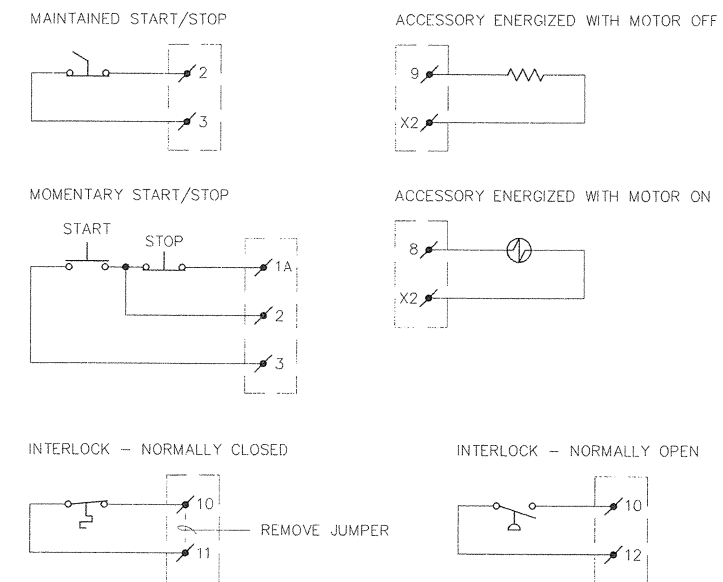
1st LETTER - BASIC STARTER TYPE

- A - FVNR
- B - FVR
- C - RVNR-AT
- D - RVNR-SS
- E - 2S2W
- F - 2S2W-RVSS
- G - 2S1W (CT & VT)
- H - 2S1W (CHP)

2nd LETTER - STARTER CONTROL VARIATIONS

- A - R & G INDICATOR LIGHTS (MAY VARY WITH FIRST LETTER)
- B - s.a. A EXTRA AUX
- C - s.a. A REMOTE INT
- D - s.a. C EXTRA AUX
- E - ELECTRIC CHECK VALVE

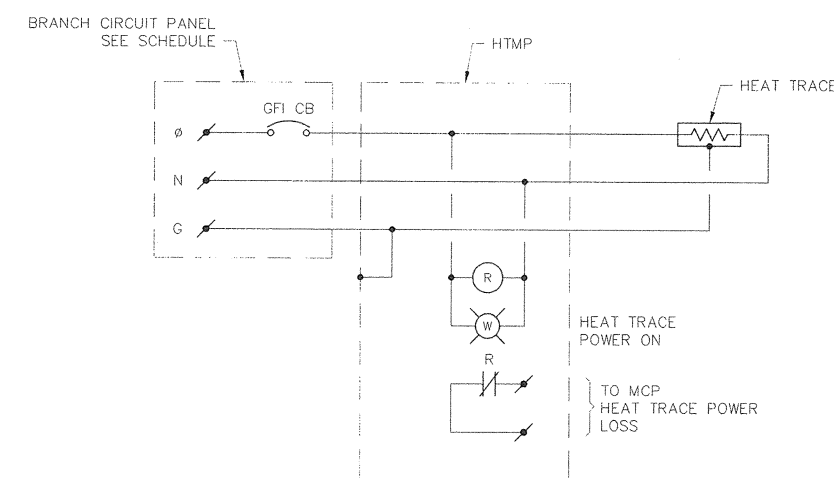
TYPICAL STARTER INTERFACE



SINGLE SPEED, 120V FAN CONTROL DIAGRAM

| EF/SF-**** | INTERFACE | ACCESSORY |
|------------|--------------|-----------|
| EF-201 | MAU-201 | WL-201 |
| SF-202 | T'STAT/HOA | WL-401 |
| EF-401 | LIGHT SWITCH | WL-401 |
| EF-402 | T'STAT/HOA | WL-402 |
| EF-403 | T'STAT/HOA | WL-402 |

NOTE:
COORDINATE CONTROLS WITH THE REQUIREMENTS OF DIVISION 15.

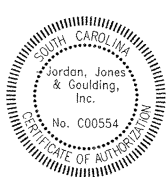


DETAIL - HEAT TRACE MONITOR PANEL (HTMP)

MOUNT IN NEMA 12 ENCLOSURE

NOTE: WHERE BRANCH CIRCUIT PANEL SUPPLIES MULTIPLE HEAT TRACE CIRCUITS, CIRCUITS MAY BE COMBINED IN HTMP WITH ONE RELAY AND PILOT LIGHT PER CIRCUIT. CONNECT RELAY CONTACTS IN PARALLEL FOR REMOTE POWER LOSS INDICATION.

NOTES:
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| NO. | DATE | DESCRIPTION OF REVISION |
|-----|----------|-------------------------|
| 1 | 08-02-01 | RECORD DRAWING |
| 0 | 12-15-99 | INITIAL ISSUE |
| | | |



CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

ELECTRICAL WIRING DIAGRAMS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2006 | E0.5 | 1 |
| DRAWN: GAB | JOB NO. 2193.006 | SCALE: NONE | SHEET | REV |

c:\p08\05.dwg 02.13.02

| ANALOG CONDUCTORS | | | |
|-------------------|------------|----------|---------------------------|
| No. | CONDUCTORS | FROM | TO/REMARKS |
| A001 | 2#16TSP | FIT-702 | MCP VIA PB-6B, 2B |
| A002 | 2#16TSP | AIT-703 | MCP VIA PB-6B, 2B |
| A003 | 2#16TSP | LT-701 | MCP VIA PB-1A, 4A, 2B |
| A004 | 2#16TSP | FIT-407 | MCP VIA PB-2B, HH#4, 2 |
| A005 | 5#16TSP | FCP-NH-1 | MCP VIA PB-4A, 2B |
| A006 | NOT USED | | |
| A007 | NOT USED | | |
| A008 | NOT USED | | |
| A009 | NOT USED | | |
| A010 | NOT USED | | |

| CONTROL CONDUCTORS | | | |
|--------------------|------------|--------------------------------------|-------------------------------|
| No. | CONDUCTORS | FROM | TO/REMARKS |
| C001 | 6#14,#14G | PSH/PSL-1201 | MCP VIA PB-6B, 2B |
| C002 | 4#12,#12G | FCP-SED-1 | MCP VIA PB-3B, 2B, HH#4, 2 |
| C003 | 10#12,#12G | BACKWASH REUSE M. V. | MCP VIA PB-4A, 2B |
| C004 | 6#14,#14G | PSL-1202, PSL-1203 | MCP VIA PB-4A, 2B |
| C005 | 4#14,#14G | XI-1208 (NO INSTRUMENT INSTALLED) | MCP VIA PB-4A, 2B |
| C006 | 4#14,#14G | NH-ALM-1 | MCP VIA PB-4A, 2B |
| C007 | 6#14,#14G | LCP-NH-1 | MCP VIA PB-4A, 2B |
| C008 | 30#12,#12G | MCC-A | MCP VIA PB-4A, 2B |
| C009 | NOT USED | | |
| C010 | NOT USED | | |

| DATA HIGHWAY CONDUCTORS | | | |
|-------------------------|------------|-----------|--------------------------|
| No. | CONDUCTORS | FROM | TO/REMARKS |
| D001 | NOTE1 | AIT-610 | AIT-304 VIA PB-4A, 2B |
| D002 | NOTE1 | FCP-FLT-1 | MCP VIA PB-4A, 2B |
| D003 | NOT USED | | |
| D004 | NOT USED | | |
| D005 | NOT USED | | |

NOTE:
DATA HIGHWAY CABLES ARE FURNISHED BY DIVISION 17 AND INSTALLED BY DIVISION 16.

| 480/277 VOLT CONDUCTORS | | | |
|-------------------------|-------------------|-------------------|---------------------------------------|
| No. | CONDUCTORS | FROM | TO/REMARKS |
| H001 | 4x4-350kcmil | MSB-1 | UTILITY CO. TRANSFORMER |
| H002 | 3x3-400kcmil,2/0G | MCC-2 MB | MSB-2 VIA PB-6A, 2A |
| H003 | 2x4-350kcmil,#1G | MCC-1-1 | MSB-3 |
| H004 | 4-3/0,#6G | PANEL HD MB | MSB-4 VIA PB-2A |
| H005 | 4-250kcmil,#4G | MCC-1-2 | MCC-2-1C VIA PB-6A, 2C |
| H006 | 3#8,#10G | MCC-B-0 | MCC-1-6 |
| H007 | 4-3/0,#6G | MCC-A-0 | MCC-1-7 VIA PB-2A |
| H008 | 3#6,#10G | MCC-A2 ML | MCC-1-8 VIA PB-2A, HH#2 |
| H009 | 3#6,#10G | MCC-A3 EX. FEEDER | MCC-1-9 (SPLICE IN HH#2) VIA PB-2A |
| H010 | NOT USED | | |
| H011 | 3#12,#16TSP,#12G | FLC-PE-1 | MCC-B-1 VIA PB-3A, 2A, HH#4, 2 |
| H012 | 3#12,#16TSP,#12G | FLC-PE-2 | MCC-B-2 VIA PB-3A, 2A, HH#4, 2 |
| H013 | 3#12,#16TSP,#12G | FLC-PE-3 | MCC-B-3 VIA PB-3A, 2A, HH#4, 2 |
| H014 | 3#12,#16TSP,#12G | FLC-PE-4 | MCC-B-4 VIA PB-3A, 2A, HH#4, 2 |
| H015 | 3#12,#12G | FCP-SED-1 | HA-37 VIA PB-3A, 2A, HH#4, 2 |
| H016 | 2#12,#12G | SED BASIN LIGHTS | HA-9 VIA LCT-A, PB-3A, 2A, HH#4, 2 |
| H017 | 3#12,#12G | NA-P-5 | HA1-1 VIA PB-5A, 2A, HH# 2 |
| H018 | 3#12,#12G | NA-P-6 | HA1-2 VIA PB-5A, 2A, HH#2 |
| H019 | 2#12,#12G | CHEM TANKS LIGHT | HA-11 VIA LCT-A, PB-5A, 2A, HH#2 |
| H020 | NOT USED | | |

| 240/208/120 VOLT CONDUCTORS | | | |
|-----------------------------|------------|-----------------------|---------------------------------------|
| No. | CONDUCTORS | FROM | TO/REMARKS |
| L001 | 2#12,#12G | LT-701 | LC-23 VIA PB-1A |
| L002 | 4#12,#12G | FCP-SED-2 | MCP VIA PB-2A, HH#4, 2 |
| L003 | 2#10,#10G | SED BASIN RECEP | LA-7 VIA PB-3A, 2A, HH#4, 2 |
| L004 | 2#10,#10G | CHEM TANKS RECEP | LA-33 VIA PB-5A, 2A, HH#2 |
| L005 | 4#10,#10G | CHEM TANKS HT | LA-35,39 VIA HTMP. PB-5A, 2A, HH#2 |
| L006 | 3#12,#12G | BACKWASH REUSE M. V. | LC-37 |
| L007 | 3#10,#10G | SLUDGE VALVE PIT | LA1-69 VIA PB-2A, HH#4, 2 |
| L008 | 6#10,#10G | RAW WATER METER VAULT | LA1-61,65 VIA PB-2A, HH#4, 2 |
| L009 | NOT USED | | |
| L010 | NOT USED | | |

| DUCTBANK SCHEDULE | | | | | |
|-------------------|----------|-------------------|-------------|------------------|-------|
| TAG | C. | CONDUCTORS | FROM | TO | SIZE |
| 1 | a | H015,H016,H019 | PB-2A | HH#2 | 2" |
| | b | H017,H018 | PB-2A | HH#2 | 2" |
| | c | L003,L004,L005 | PB-2A | HH#2 | 2" |
| | d | L007,L008 | PB-2A | HH#2 | 2" |
| | e | H011,H012 | PB-2A | HH#2 | 2" |
| | f | H013,H014 | PB-2A | HH#2 | 2" |
| | g | H008,H009 | PB-2A | HH#2 | 2" |
| | h | A004 | PB-2B | HH#2 | 2"* |
| | i | C002,L002 | PB-2B | HH#2 | 2" |
| | j | EMPTY | PB-2A | HH#2 | 2" |
| | k | EMPTY | PB-2A | HH#2 | 2" |
| | l | EMPTY | PB-2A | HH#2 | 2" |
| | m | EMPTY | PB-2B | HH#2 | 2" |
| | n | EMPTY | PB-2B | HH#2 | 2" |
| 2 | a | H008 | HH#2 | MCC-A-2 | EX 2" |
| | b | 20 #14 | HH#2 | MCP | |
| 3 | a | H011,H012 | HH#2 | HH#4 | EX 2" |
| | b | H013,H014 | HH#2 | HH#4 | EX 2" |
| | c | H015,H016 | HH#2 | HH#4 | EX 2" |
| | d | L003,L007,L008 | HH#2 | HH#4 | EX 2" |
| | e | C002,L002 | HH#2 | HH#4 | EX 2" |
| | f | A004 | HH#2 | HH#4 | EX 2" |
| 4 | a | H011 | HH#4 | PB-3A | 2" |
| | b | H012 | HH#4 | PB-3A | 2" |
| | c | H013 | HH#4 | PB-3A | 2" |
| | d | H014 | HH#4 | PB-3A | 2" |
| | e | H015,H016 | HH#4 | PB-3A | 2" |
| | f | L003 | HH#4 | PB-3A | 2" |
| | g | EMPTY | HH#4 | PB-3A | 2" |
| | h | EMPTY | HH#4 | PB-3A | 2" |
| | i | C002 | HH#4 | PB-3B | 2" |
| | j | EMPTY | HH#4 | PB-3B | 2" |
| 5 | a | L004,L005 | HH#2 | PB-5A | 2" |
| | b | H017 | HH#2 | PB-5A | 2" |
| | c | H018 | HH#2 | PB-5A | 2" |
| | d | H019 | HH#2 | PB-5A | 2" |
| | e | EMPTY | HH#2 | PB-5A | 2" |
| | f | EMPTY | HH#2 | PB-5A | 2" |
| 6 | NOT USED | | | | |
| | NOT USED | | | | |
| 7 | NOT USED | | | | |
| | NOT USED | | | | |
| 8 | a | L006 | PANEL LC | BACKWASH VAULT | 2" |
| | c | EMPTY | FILTER BLDG | BACKWASH VAULT | 2" |
| 9 | a | H002 (1 RUN OF 3) | PB-2A | PB-6A | 3" |
| | b | H002 (2 RUN OF 3) | PB-2A | PB-6A | 3" |
| | c | H002 (3 RUN OF 3) | PB-2A | PB-6A | 3" |
| | d | H005 | PB-2C | PB-6A | 3" |
| | e | EMPTY | PB-2A | PB-6A | 3" |
| | f | EMPTY | PB-2A | PB-6A | 3" |
| | g | A001,A002 | PB-2B | PB-6B | 2"* |
| | h | C001 | PB-2B | PB-6B | 2" |
| | i | EMPTY | PB-2B | PB-6B | 2" |
| 10 | a | L002,L007 | HH#4 | SLUDGE VALVE PIT | EX 1" |
| | b | A004 | HH#4 | SLUDGE VALVE PIT | EX 1" |

| DUCTBANK SCHEDULE | | | | | |
|-------------------|----|--------------|---------------------|----------|-------|
| TAG | C. | CONDUCTORS | FROM | TO | SIZE |
| 11 | a | L001 | PANEL LC | PB-1A | 2" |
| | b | A003 | PB-4A | PB-1A | 2"* |
| | c | EMPTY | FILTER BLDG | PB-1A | 2" |
| 12 | a | H007 | PB-2A | MCC-A-0 | 3" |
| | b | H004 | PB-2A | PANEL HD | 3" |
| | c | A005,A003 | PB-2B | PB-4A | 2"* |
| | d | C003-C007 | PB-2B | PB-4A | 2" |
| | e | D001,D002 | PB-2B | PB-4A | 2" |
| | f | C008 | PB-2B | PB-4A | 2" |
| | g | EMPTY | PB-2B | PB-4A | 2" |
| | h | EMPTY | PB-2B | PB-4A | 2" |
| | | | | | |
| 13 | a | L008 | HH#4 | RW VAULT | EX 1" |
| | b | ADDED 2 # 16 | TSP FROM MCP 12 #14 | | |

EX - EXISTING
* - GALVANIZED RIGID STEEL

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| 0 | 12-15-99 | INITIAL ISSUE |



CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

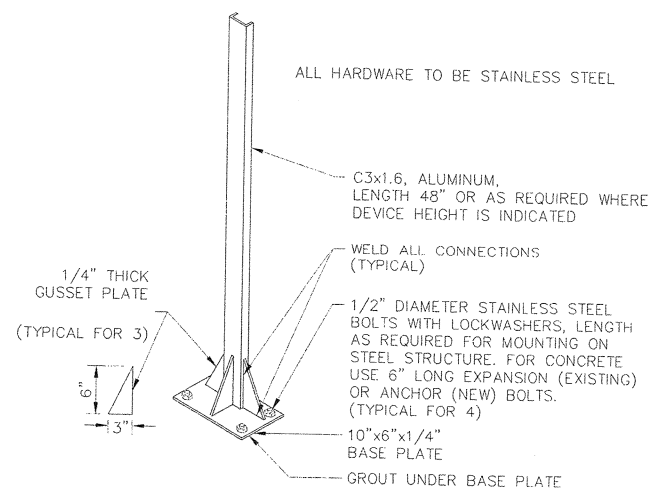
ELECTRICAL CONDUCTOR AND
DUCTBANK SCHEDULES

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2000 | E0.7 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: NONE | SHEET | REV |

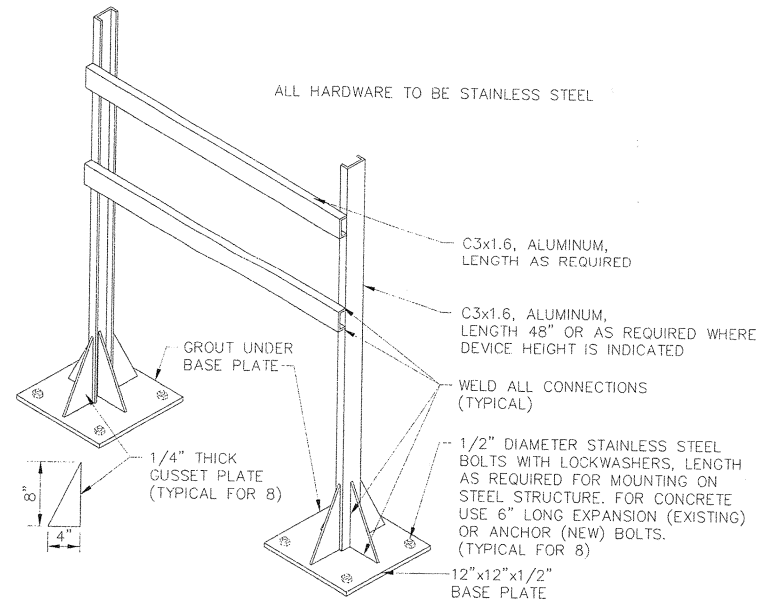
02/13/02

LIGHTING FIXTURE SCHEDULE

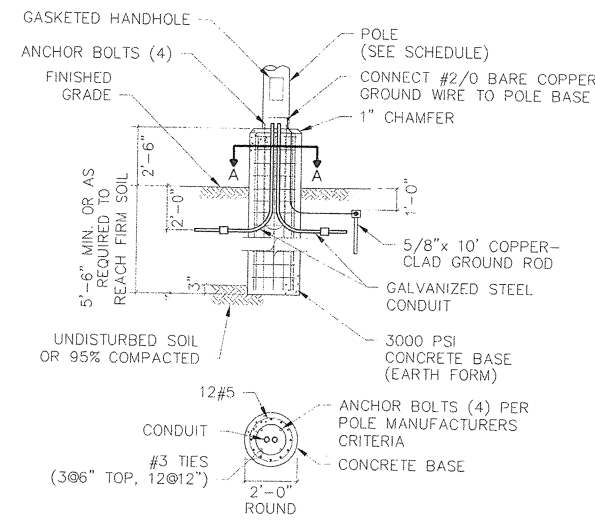
| FIXTURE REF. | TYPE CATALOG NUMBER | LAMP | VOLT. | MOUNTING | OPTIONS FEATURES | REMARKS |
|--------------|--|----------------|------------|----------------------|--|-----------------|
| BA | HOLOPHANE DESOTO M-60 #DM6N50TNS2T2 | WITH UNIT | 277 | WALL 10'-0" AFF | NEMA 4X HOUSING, 12V NICKEL CADMIUM BATTERIES, 2 GRAY LAMP HEADS, 25W LAMPS, 277V TIME DELAY RELAY | |
| BB | HOLOPHANE CORTEZ A4 #C4NT50WVK2T2 | WITH UNIT | 277 | WALL 8'-0" AFF | 20 GAUGE STEEL CABINET, 12V NiCd BATTERIES, 2 WHITE LAMP HEADS, 25W LAMPS, 277V TIME DELAY RELAY, WHITE FINISH | |
| FA | HOLOPHANE SM SERIES #SMS045NNSO42EP12 | 2-F32T8 | 277 | CEILING | 22 GAUGE STEEL CHANNEL, SPECULAR REFLECTOR WITH 92% REFLECTIVITY, NO UPLIGHT | |
| FB | HOLOPHANE PRISMATITE #M7200427JDRP1 | 2-F32T8 | 277 | CEILING | UL 1570 LISTED, WET LOCATION, EXTRUDED ALUMINUM HOUSING, HIGH IMPACT IACRYLIC LENS, CORROSION RESISTANT FINISH | |
| FC | HOLOPHANE TG SERIES #TGR245NH24043EP22 | 3-F32T8 | 277 | CEILING | 22 GAUGE STEEL CHASSIS, SPECULAR REFLECTOR WITH 92% REFLECTIVITY, REGRESSED ALUMINUM DOOR, SPRING LOADED LATCHES | |
| HA | HOLOPHANE BANTAM 2000 ENDURALUME #BA15DHPMTCA HID LUMINAIRE | 150W HPS | 120 OR 277 | CEILING | UL 1572 LISTED, WET LOCATION, PRISMATIC GLASS REFRACTOR, SPUN ALUMINUM REFLECTOR | |
| HAQ | HOLOPHANE BANTAM 2000 ENDURALUME #BA15DHPMTCA-EM HID LUMINAIRE | 150W HPS | 120 OR 277 | CEILING | SAME AS HA WITH THE ADDITION OF HALOGEN STANDBY LAMP | |
| HB | HOLOPHANE PREDATOR #PF40LMHMTKW3B HID LUMINAIRE | 400W MH | 120 OR 277 | CEILING | UL 1572 WET LOCATION, HEAVY DUTY FLOODLIGHT, WIDE DISTRIBUTION, SS YOKE, BRONZE FINISH | |
| HC | HOLOPHANE WALLPACK #WL2K100MHMTBZ HID LUMINAIRE | 100W MH | 120 OR 277 | WALL AS INDICATED | UL 1572 LISTED, WET LOCATION, THERMAL SHOCK RESISTANT PRISMATIC GLASS REFRACTOR, BRONZE PAINT FINISH | |
| HD | HOLOPHANE MODULE 600 #MW250MHMTZ HID LUMINAIRE | 250W MH | 120 OR 277 | WALL AS INDICATED | UL 1572 LISTED, WET LOCATION, DIE-CAST ALUMINUM HOUSING, PRISMATIC GLASS REFRACTOR, BRONZE PAINT FINISH | |
| HE | HOLOPHANE CRESTWOOD #CW2A175MHMTGRCA HID LUMINAIRE | 175W MH | 120 OR 277 | POLE | UL1572 WET LOCATION, THERMAL SHOCK RESISTANT PRISMATIC GLASS REFRACTOR, GREY FINISH | |
| HF | HOLOPHANE WALLPACK #WL2K100MH12BZ-WL2KPR12 HID LUMINAIRE | 100W MH | 120 | WALL AS INDICATED | UL 1572 LISTED, WET LOCATION, THERMAL SHOCK RESISTANT PRISMATIC GLASS REFRACTOR, BRONZE PAINT FINISH | WITH PE CELL |
| PA | HOLOPHANE #ALR10J/ POLE | | | ANCHOR | 10' ROUND TAPERED ALUMINUM, ANCHOR BASE, SINGLE LUMINAIRE MOUNTING TENON, BRUSHED FINISH | SEE BASE DETAIL |
| XA | HOLOPHANE DELEON NM #LNMDNCGSRSNWL EXIT LIGHT | LED | 120 OR 277 | ABOVE DOOR 8'-0" AFF | NEMA 4X HOUSING, NICKEL CADMIUM BATTERIES, LED LAMPS, SINGLE RED FACE | |
| XB | HOLOPHANE DELEON NM #LNMDNCGSRSNWL EXIT LIGHT | LED/ WITH UNIT | 120 OR 277 | ABOVE DOOR 8'-0" AFF | SAME AS XA WITH THE ADDITION OF TWO EMERGENCY LIGHT HEADS | |
| XC | HOLOPHANE MAGELLAN LD #MLNWD1WR EXIT LIGHT | LED | 120 OR 277 | ABOVE DOOR 8'-0" AFF | DIE CAST ALUMINUM HOUSING, NICKEL CADMIUM BATTERIES, LED LAMPS, SINGLE RED FACE, WHITE FINISH | |



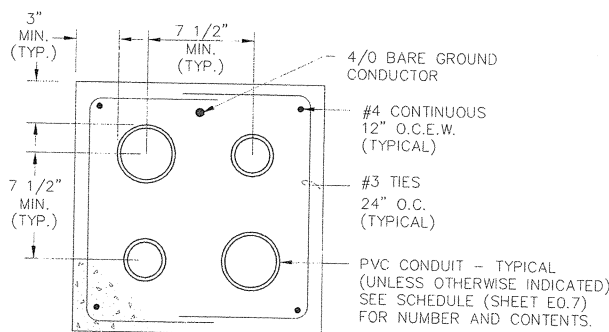
SINGLE SUPPORT STAND DETAIL
N.T.S.



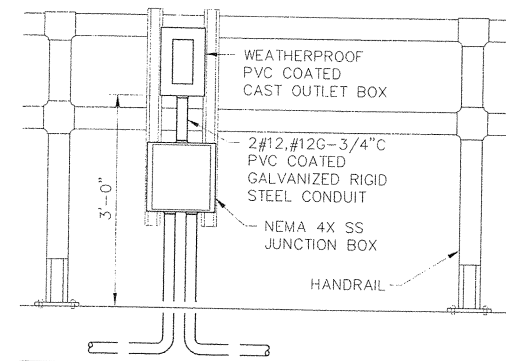
DUAL SUPPORT STAND DETAIL
N.T.S.



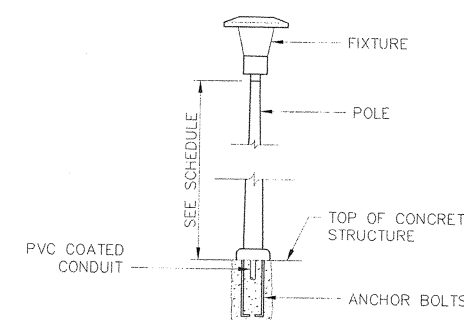
SECTION A-A
POLE BASE DETAIL
N.T.S.



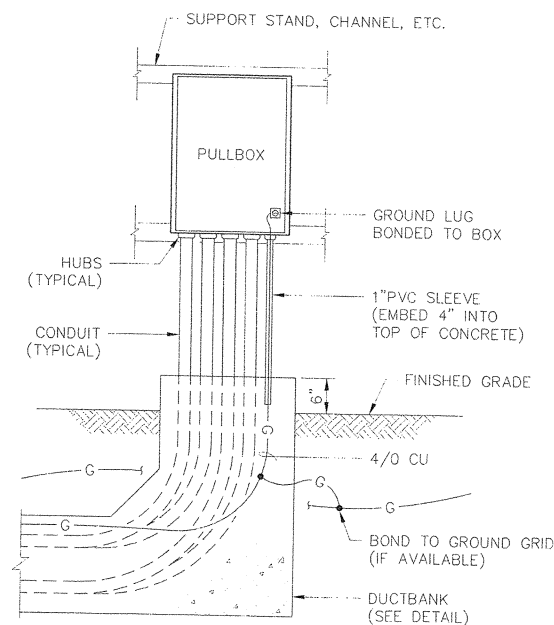
TYPICAL DUCTBANK DETAIL
N.T.S.



TYPICAL HANDRAIL MOUNTED RECEPTACLE DETAIL
N.T.S.



FIXTURE TYPE "HE" ON CONCRETE MOUNTING DETAIL
N.T.S.



DUCTBANK TERMINATION AND PULLBOX GROUNDING DETAIL
N.T.S.

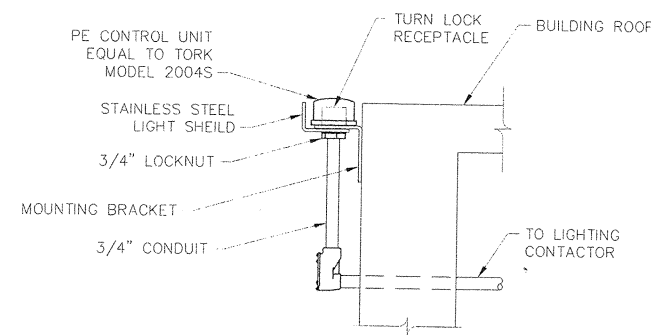
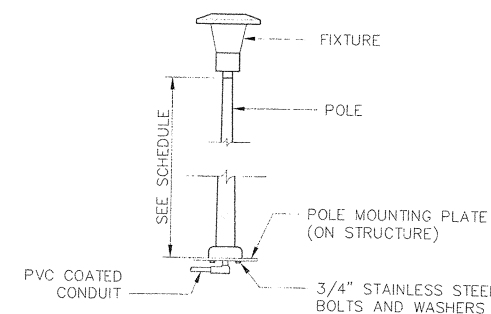


PHOTO-ELECTRIC CONTROL INSTALLATION DETAIL
N.T.S.



FIXTURE TYPE "HE" ON PLATE MOUNTING DETAIL
N.T.S.

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| 0 | 12-15-99 | INITIAL ISSUE |



CITY OF GEORGETOWN
SOUTH CAROLINA



CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

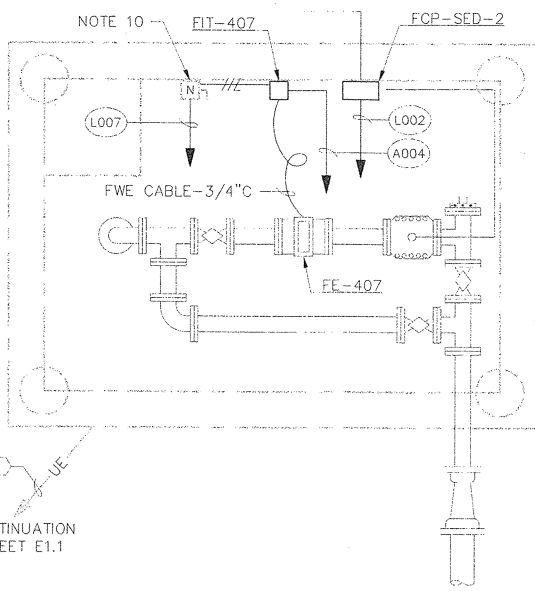
ELECTRICAL LIGHTING FIXTURE SCHEDULE AND DETAILS

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2000 | E0.8 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: NONE | SHEET | REV |

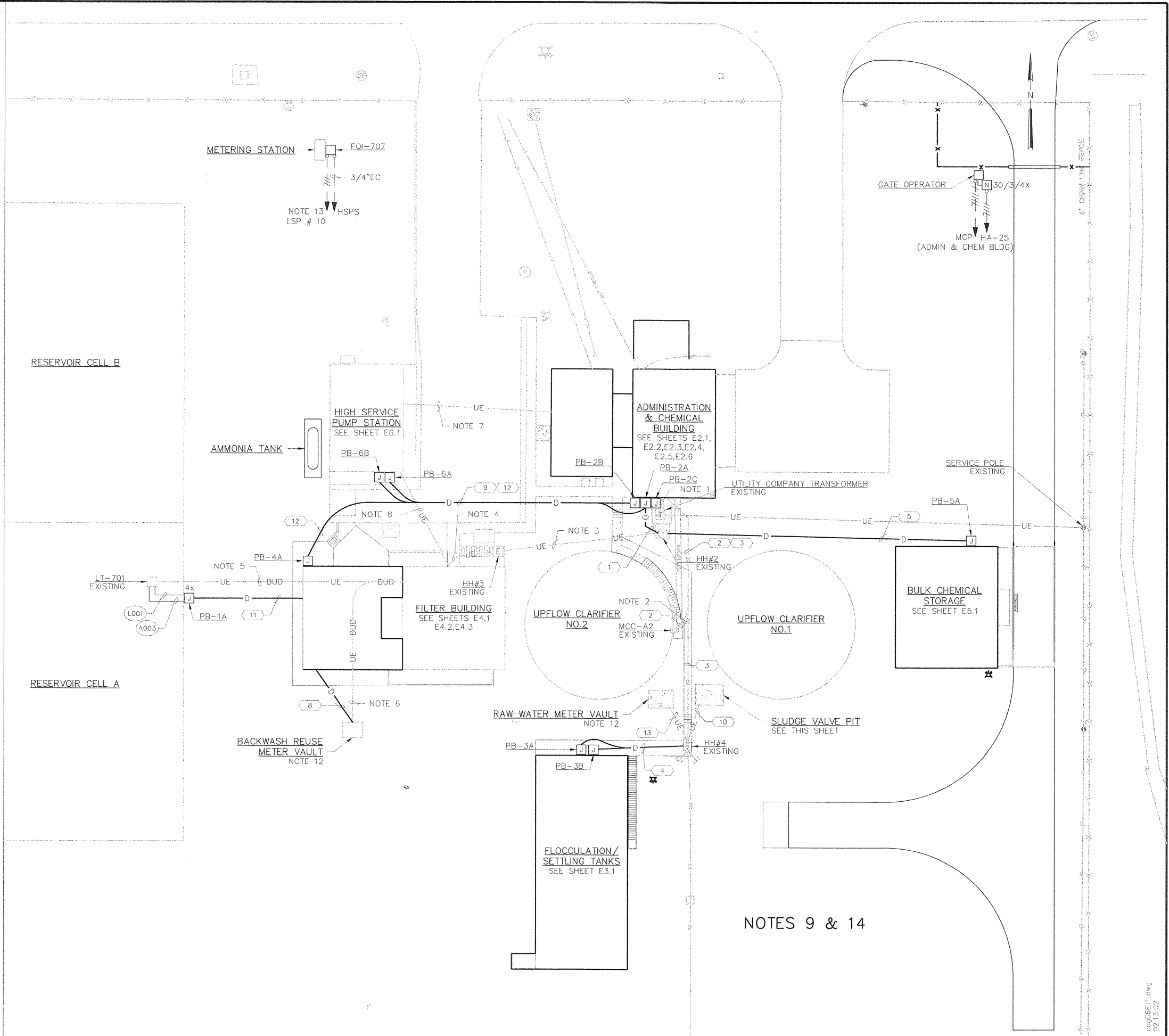
6/20/00 E0.8.dwg 02/13/02

NOTES:

- REMOVE THE FOLLOWING CONDUCTORS FROM DUCTBANK:
3#8,#8G,1-3/C#12,1-5/C#12-2°C FROM HH#2 TO MCC-1 (MCC-A3 FEEDER AND PUMP CONTROLS.
RETAIN CONDUCTORS IN HH#2 FOR SPLICING)
3#8,#8G,4-6/C#12-3°C FROM HH#2 TO MCC-1 AND MCP (MCC-A2 FEEDER)
3#8,#8G,1-3/C#12,1-5/C#12-2°C FROM HH#2 TO MCC-1 AND MCP (MCC-A1 FEEDER)
3#2,#2G-2°C FROM HH#2 TO MCC-1 (EC-3 FEEDER)
DUCTBANK SHALL BE ABANDONED FOLLOWING REMOVAL OF CONDUCTORS.
- REMOVE THE FOLLOWING CONDUCTORS FROM DUCTBANK:
3#8,#8G,4-6/C#12-3°C FROM MCC-A2 TO HH#2 (MCC-A2 FEEDER)
RETAIN CONDUIT/DUCTBANK FOR INSTALLATION OF NEW CONDUCTORS.
- REMOVE THE FOLLOWING CONDUCTORS FROM DUCTBANK:
3#8,#8G,1-3/C#12,1-5/C#12-2°C FROM HH#3 TO HH#2 (MCC-A1 FEEDER)
3#2,#2G-2°C FROM HH#3 TO HH#2 (EC-3 FEEDER)
DUCTBANK SHALL BE ABANDONED FOLLOWING REMOVAL OF CONDUCTORS.
- REMOVE THE FOLLOWING CONDUCTORS FROM DUCTBANK:
3#8,#8G,1-3/C#12,1-5/C#12-2°C FROM MCC-A1 TO HH#3 (MCC-A1 FEEDER)
3#2,#2G-2°C FROM EC-3 TO HH#3 (EC-3 FEEDER)
DUCTBANK SHALL BE ABANDONED FOLLOWING REMOVAL OF CONDUCTORS.
- REMOVE THE FOLLOWING CONDUCTORS FROM DUCTBANK:
2#12,#12G FROM LT-701 TO PANEL IN FILTER BUILDING.
2#12,#12G FROM LT-701 TO CONTROL PANEL IN FILTER BUILDING.
DUCTBANK SHALL BE REMOVED FOLLOWING REMOVAL OF CONDUCTORS.
- REMOVE THE FOLLOWING CONDUCTORS FROM DUCTBANK:
3#8,#8G,1-5/C#12-2°C FROM METER VAULT TO PANEL LF IN FILTER BUILDING.
DUCTBANK SHALL BE REMOVED FOLLOWING REMOVAL OF CONDUCTORS.
- REMOVE THE FOLLOWING CONDUCTORS FROM DUCTBANK:
3-350kcmil,2/0G-3 1/2°C FROM MCC-2 TO MISC (3 SETS TOTAL).
3-250kcmil,#2G-3°C FROM MCC-2 GENERATOR TO MCC-1
CONTROL AND SIGNAL CONDUCTORS TO MCP SHALL REMAIN.
- REMOVE THE FOLLOWING CONDUCTORS FROM DUCTBANK:
1-3/C#12 FROM HSPS TO FILTER BUILDING.
DUCTBANK SHALL BE ABANDONED FOLLOWING REMOVAL OF CONDUCTORS.
- ALL CONDUIT, FITTINGS, ETC. EXPOSED TO THE WEATHER SHALL BE PVC COATED GALVANIZED RIGID STEEL.
ALL ELECTRICAL EQUIPMENT AND DEVICES EXPOSED TO THE WEATHER SHALL HAVE A MINIMUM RATING OF NEMA 4X.
ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL.
- CONNECT FIT-407 TO 120V CIRCUIT FOR PIT LIGHTS AND RECEPTACLE.
- ALL EXPOSED CONDUIT, FITTINGS, ETC. SHALL BE PVC COATED GALVANIZED RIGID STEEL.
ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL HAVE A MINIMUM RATING OF NEMA 4X.
ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL.
- CONNECT 120V CONDUCTORS TO EXISTING 3P DISCONNECT SWITCH(ES). CONNECT CONTROL CONDUCTORS TO EXISTING METER(S) AND VALVE(S).
- ROUTE TO EXISTING PANEL LPS IN MCC-2 IN HSPS. IN EXISTING SPACE PROVIDE MATCHING TYPE 20/1 MCCB. UPDATE DIRECTORY CARD.
- YARD LIGHTING CIRCUITS PREVIOUSLY SERVED FROM DEMOLISHED PANELS IN THE CHEMICAL BUILDING SHALL BE RE-FED FROM CIRCUIT LA-38.



SLUDGE VALVE PIT
1/2" = 1'-0"
(NOTE 11)



NOTES 9 & 14

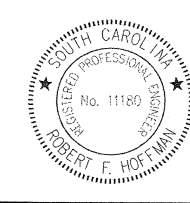
NOTES:
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CITY OF GEORGETOWN
SOUTH CAROLINA

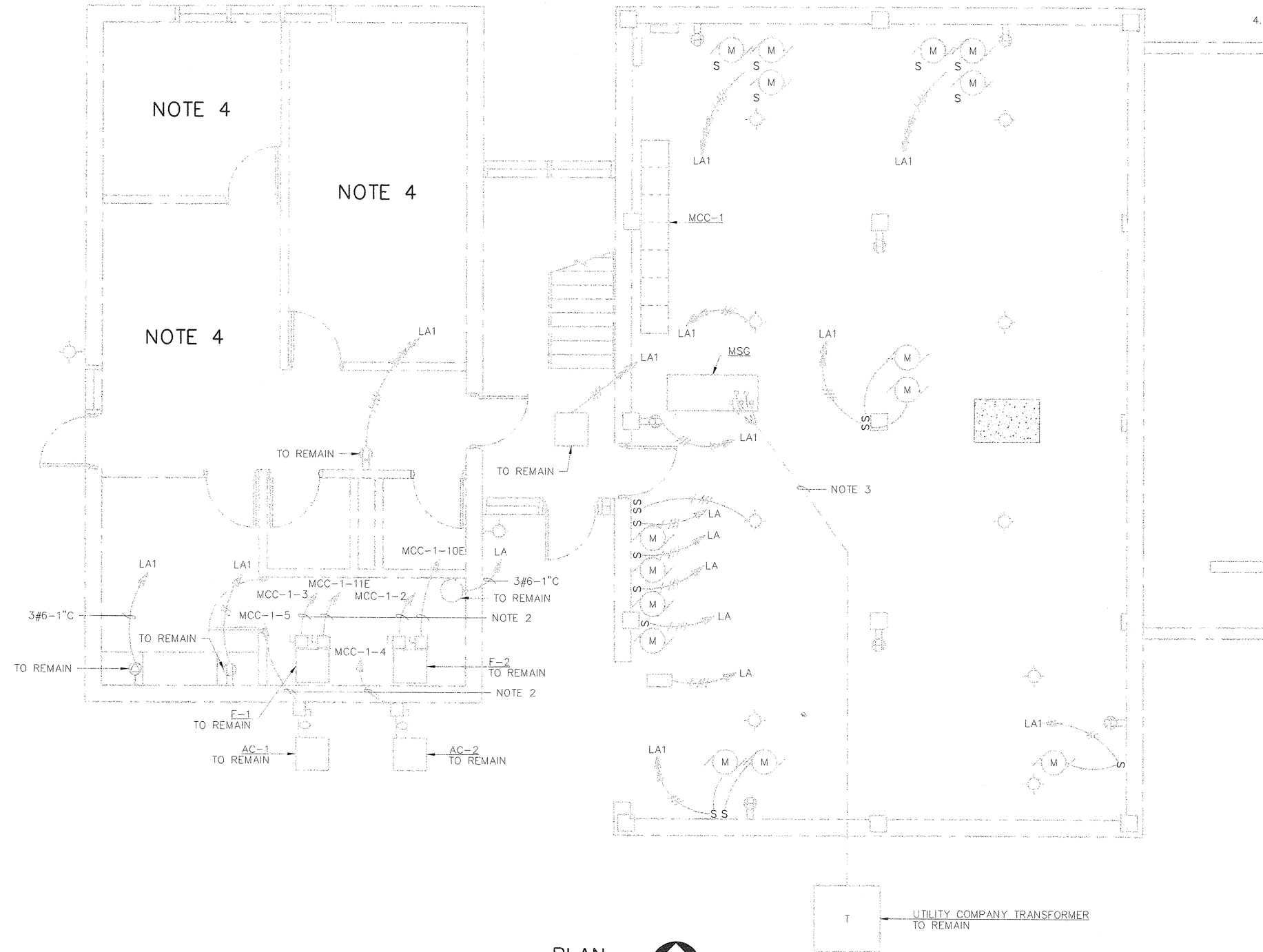


| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
|--|------------------|--------------------|------|
| ELECTRICAL SITE PLAN | | | |
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 200 | E1.1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: 1" = 20'-0" | 1 |
| | | | REV |

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NOTES:

1. ALL ELECTRICAL EQUIPMENT DEPICTED ON THIS DRAWING SHALL BE REMOVED UNLESS OTHERWISE INDICATED. REMOVAL OF LIGHTING FIXTURES SHALL INCLUDE REMOVAL OF FIXTURE, MOUNTING HARDWARE, SWITCHES, SWITCH PLATES AND CONDUCTORS. CONDUCTORS SHALL BE REMOVED BACK TO PANELBOARD. CONDUIT SHALL BE REMOVED TO THE EXTENT POSSIBLE AND REMAINING SECTIONS TAGGED "ABANDONED MM/DD/YY". CONDUIT AND BOXES LOCATED IN MASONRY WALLS FOR LIGHT SWITCHES AND RECEPTACLES MAY REMAIN IN PLACE FOR FUTURE USE.
2. CONDUCTORS TO CIRCUIT DESIGNATED TO BE REMOVED. SEE ONE-LINE DIAGRAM ON SHEET E0.2 FOR CONDUCTOR SIZE AND QUANTITY.
3. CONDUCTORS FROM MSG TO UTILITY COMPANY TRANSFORMER TO BE REMOVED. SEE ONE-LINE DIAGRAM ON SHEET E0.2 FOR CONDUCTOR SIZE AND QUANTITY. COORDINATE WITH THE OWNER FOR POWER OUTAGES AND TEMPORARY SERVICE ARRANGEMENTS DURING REMOVAL OF MSG AND INSTALLATION OF MSB AND MCC-1. CUT AND PLUG CONDUITS FOLLOWING CONDUCTOR REMOVAL.
4. SALVAGE EXISTING LIGHTING FIXTURES FOR RE-INSTALLATION.



PLAN
 1/4" = 1'-0"
 (NOTE 1)

NOTES:
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CITY OF GEORGETOWN
 SOUTH CAROLINA



CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS

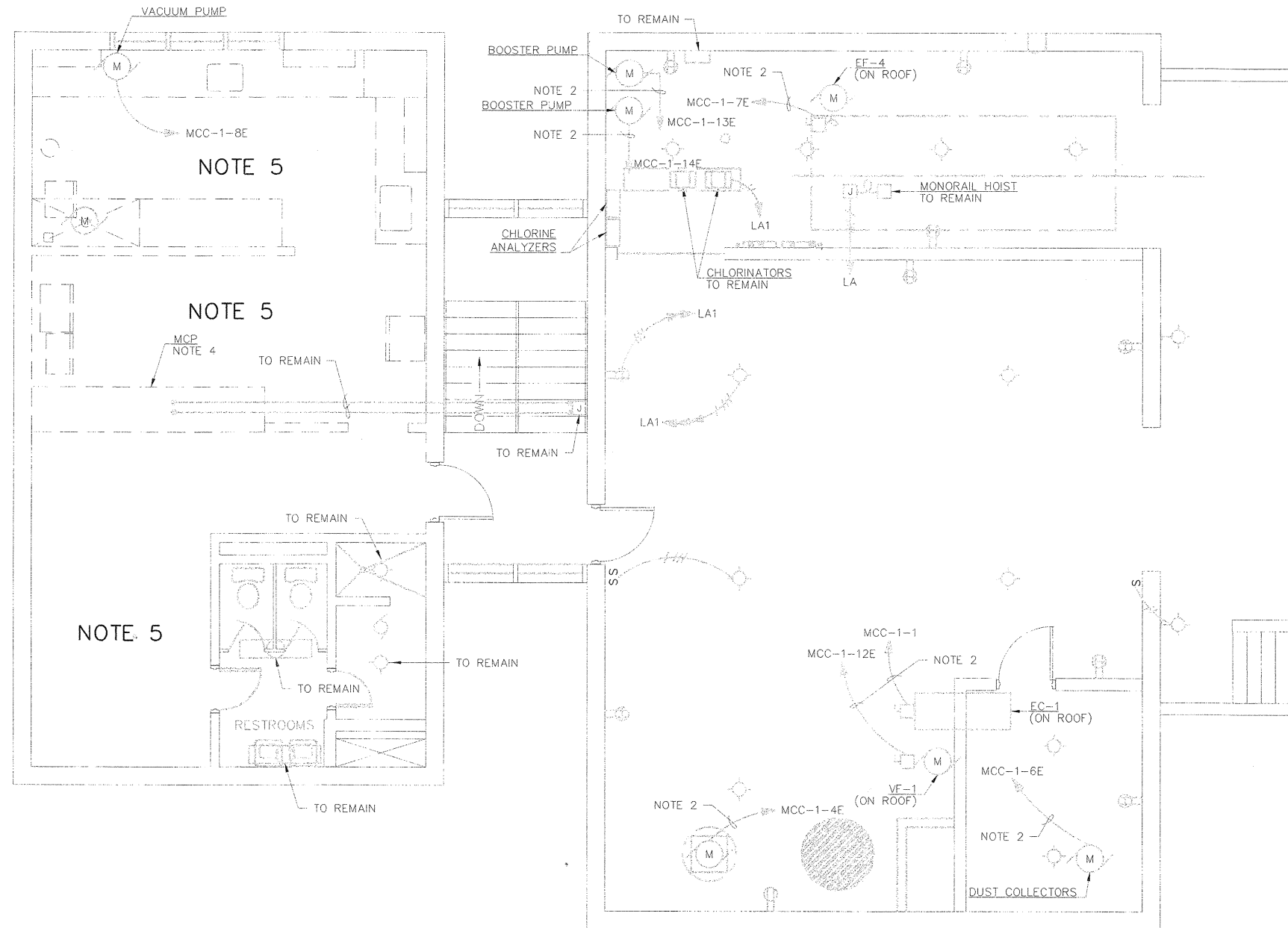
CHEMICAL BUILDING
 FIRST FLOOR
 ELECTRICAL DEMOLITION PLAN

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2001 | E2.1 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

02/13/02

NOTES:

1. ALL ELECTRICAL EQUIPMENT DEPICTED ON THIS DRAWING SHALL BE REMOVED UNLESS OTHERWISE INDICATED. REMOVAL OF LIGHTING FIXTURES SHALL INCLUDE REMOVAL OF FIXTURE, MOUNTING HARDWARE, SWITCHES, SWITCH PLATES AND CONDUCTORS. CONDUCTORS SHALL BE REMOVED BACK TO PANELBOARD, CONDUIT SHALL BE REMOVED TO THE EXTENT POSSIBLE AND REMAINING SECTIONS TAGGED "ABANDONED MM/DD/YY". CONDUIT AND BOXES LOCATED IN MASONRY WALLS FOR LIGHT SWITCHES AND RECEPTACLES MAY REMAIN IN PLACE FOR FUTURE USE.
2. CONDUCTORS TO CIRCUIT DESIGNATED TO BE REMOVED. SEE ONE-LINE DIAGRAM ON SHEET E0.2 FOR CONDUCTOR SIZE AND QUANTITY.
3. CONDUCTORS FROM MSG TO UTILITY COMPANY TRANSFORMER TO BE REMOVED. SEE ONE-LINE DIAGRAM ON SHEET E0.2 FOR CONDUCTOR SIZE AND QUANTITY. COORDINATE WITH THE OWNER FOR POWER OUTAGES AND TEMPORARY SERVICE ARRANGEMENTS DURING REMOVAL OF MSG AND INSTALLATION OF MSB AND MCC-1.
4. MCP TO BE REMOVED. PROVIDE J-BOXES WITH TERMINAL STRIPS ON BACK PANELS ABOVE CEILING FOR CONTINUATION OF EXISTING SIGNAL AND CONTROL CONDUCTORS TO NEW MCP.
5. ALL LIGHTING FIXTURES AND RECEPTACLES IN LAB/CONTROL ROOM AND OFFICE SHALL BE REMOVED. LIGHTING FIXTURES IN RESTROOMS SHALL REMAIN. LIGHTING AND RECEPTACLES ARE PRESENTLY FED FROM PANEL LA1.



PLAN
1/4" = 1'-0"
(NOTE 1)



--- TO REMAIN



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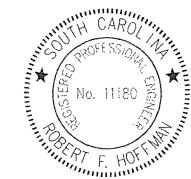
NOTES:
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CITY OF GEORGETOWN
SOUTH CAROLINA



| | | | | |
|---|------------------|---------------------|-------|-----|
| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | | |
| CHEMICAL BUILDING SECOND FLOOR ELECTRICAL DEMOLITION PLAN | | | | |
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2001 | E2.2 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

NOTES:

1. ALL EXPOSED CONDUIT, FITTINGS, ETC. SHALL BE PVC COATED GALVANIZED RIGID STEEL IN ALL AREAS EXCEPT OFFICES AND MECHANICAL ROOM. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL HAVE A MINIMUM RATING OF NEMA 4X IN ALL AREAS EXCEPT OFFICES AND MECHANICAL ROOM. ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL.
2. MOUNT IN PLACE OF EXISTING FIXTURE.
3. RE-INSTALL EXISTING LIGHTING FIXTURES IN NEW CEILING GRID.



PLAN
1/4" = 1'-0"
(NOTE 1)

NOTES:
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CITY OF GEORGETOWN
SOUTH CAROLINA

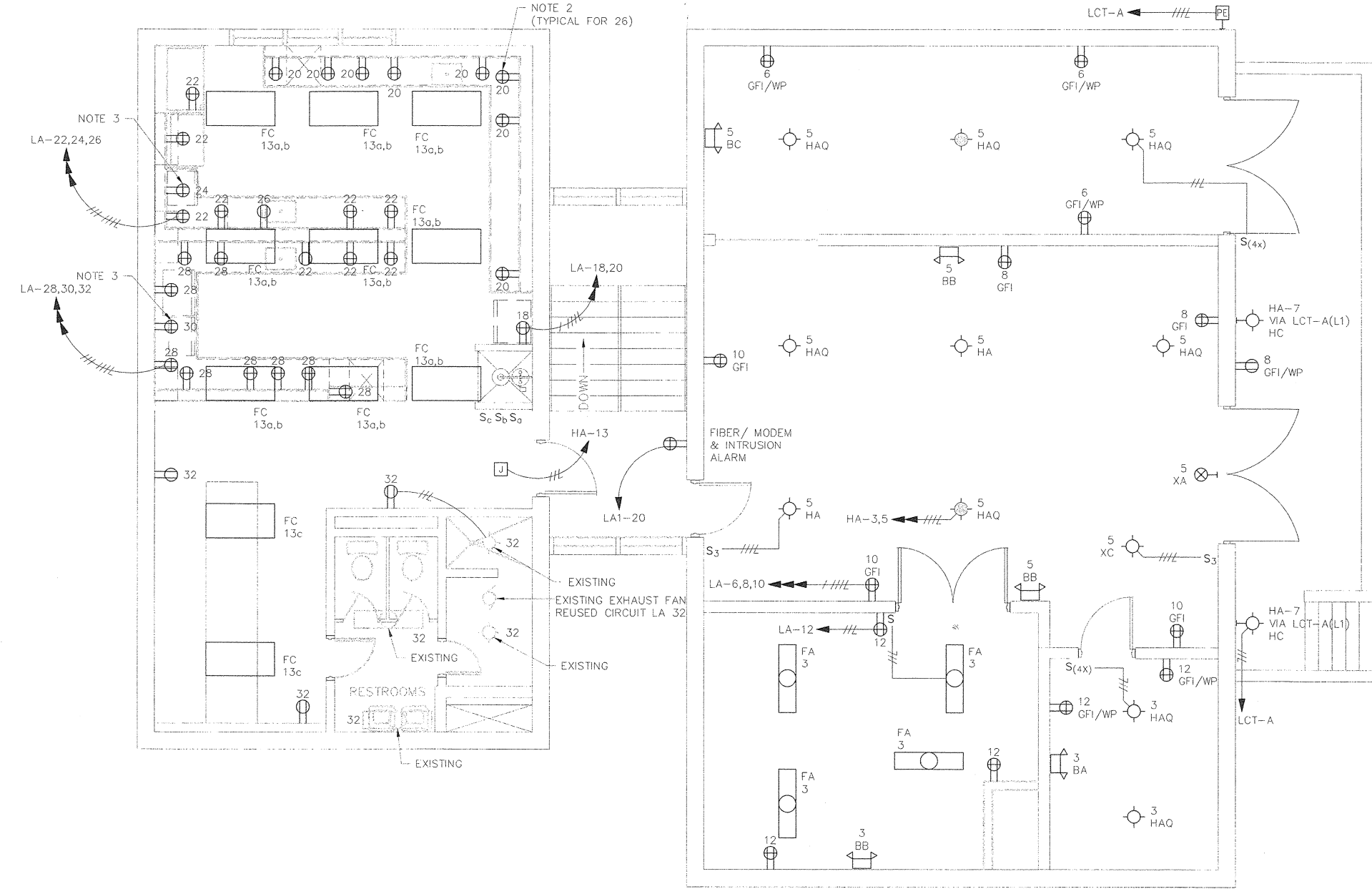


| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS CHEMICAL & ADMINISTRATION BUILDING FIRST FLOOR ELECTRICAL LIGHTING AND RECEPTACLE PLAN | | | |
|--|------------------|---------------------|------|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2001 | E2.3 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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NOTES:

1. ALL EXPOSED CONDUIT, FITTINGS, ETC. IN THE CHLORINE AND FLUORIDE ROOMS AND EXPOSED TO THE WEATHER SHALL BE PVC COATED GALVANIZED RIGID STEEL. ALL ELECTRICAL EQUIPMENT AND DEVICES IN THE CHLORINE AND FLUORIDE ROOMS AND EXPOSED TO THE WEATHER SHALL HAVE A MINIMUM RATING OF NEMA 4X. ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL.
2. ALL COUNTER TOP RECEPTACLES SHALL BE GFI PROTECTED.
3. PROVIDE WHITE FACE RECEPTACLES FOR DEDICATED COUNTER TOP CIRCUITS IN LAB.



PLAN
 1/4" = 1'-0"
 (NOTE 1)

NOTES:
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CITY OF GEORGETOWN
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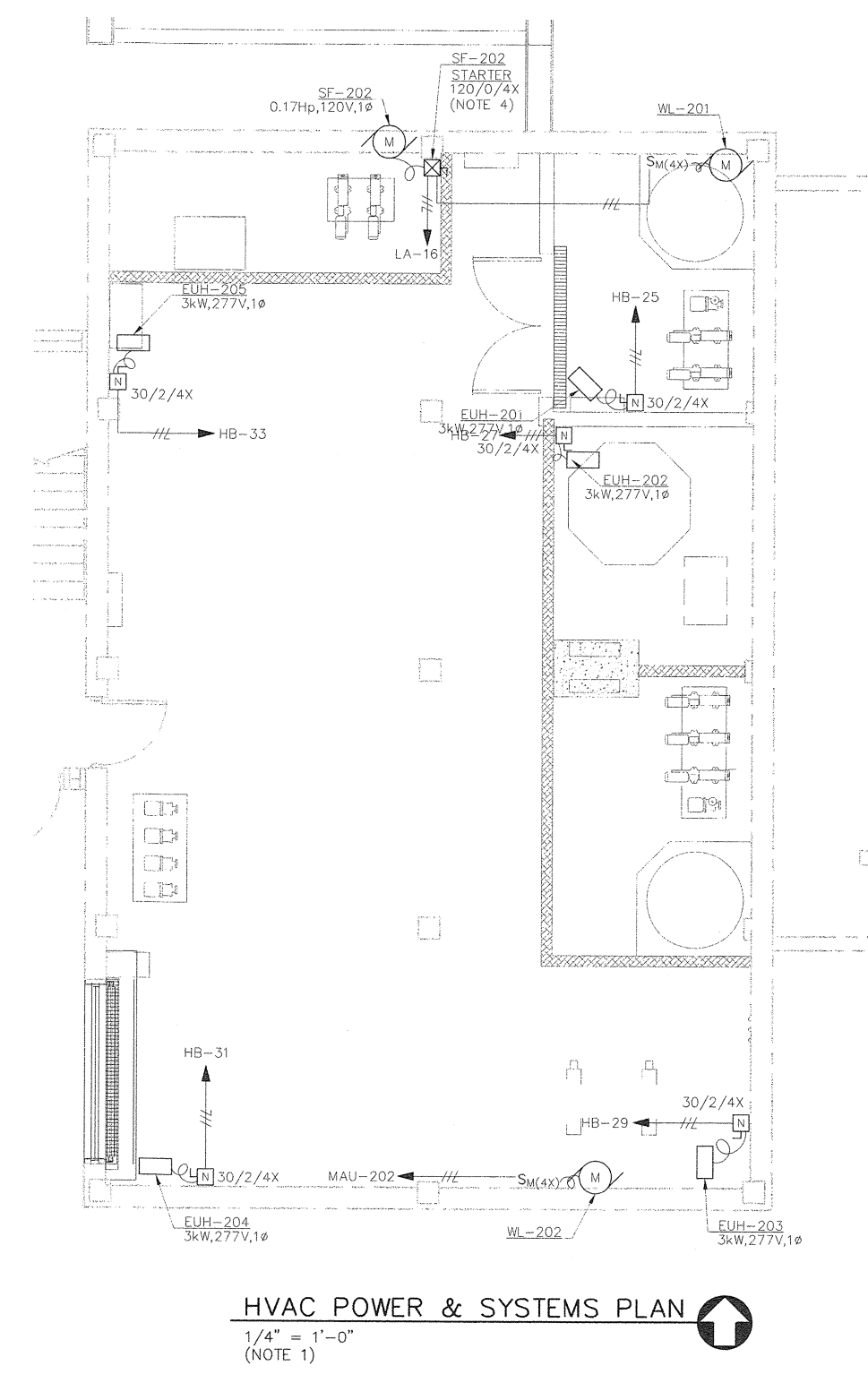
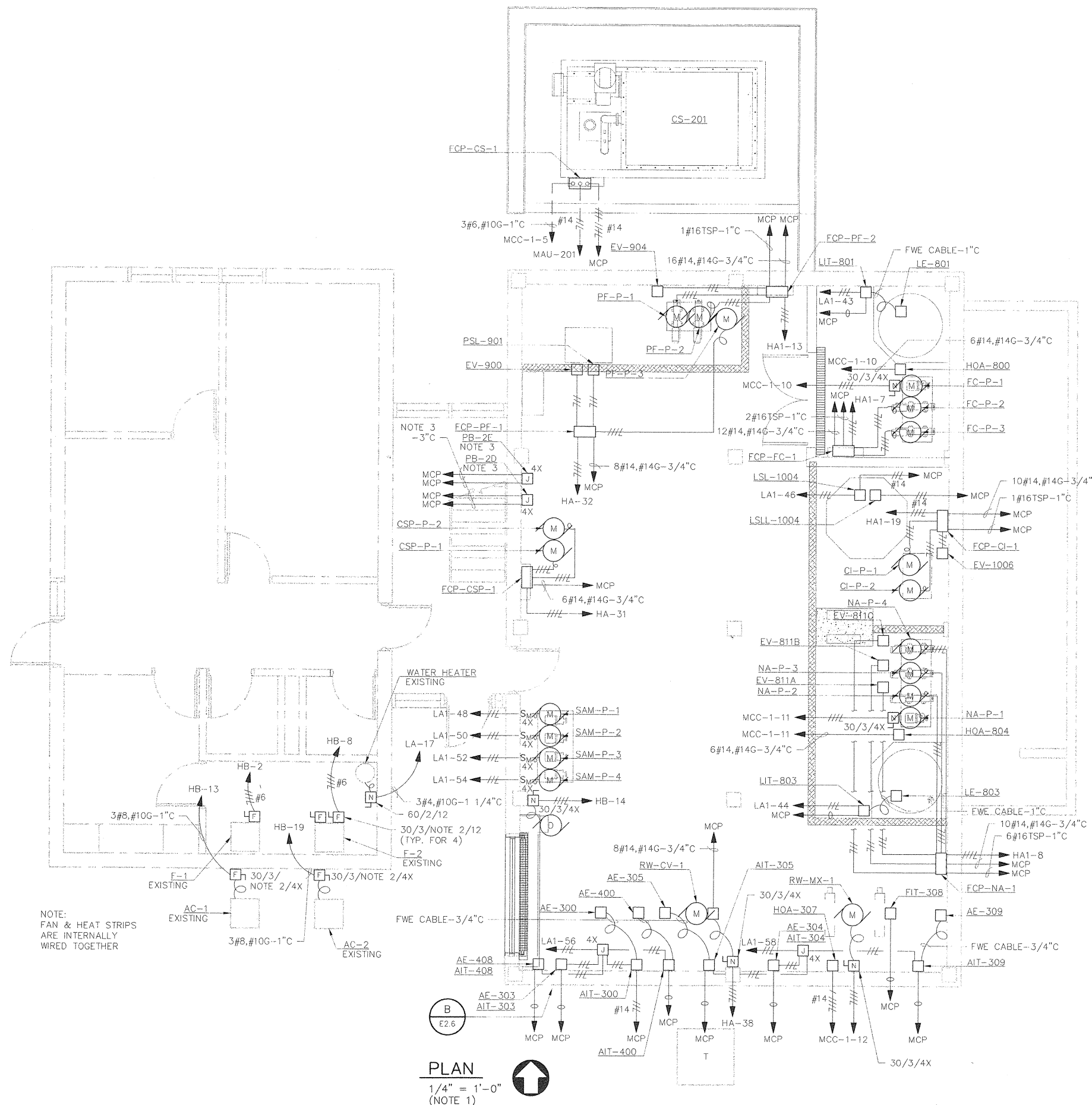


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| CHEMICAL & ADMINISTRATION BUILDING SECOND FLOOR ELECTRICAL LIGHTING AND RECEPTACLE PLAN | | | |
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2001 | E2.4 |
| DRAWN: LAB | JOB NO. 2193.005 | SCALE: AS SHOWN | 1 |
| | | | REV |

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NOTES:

1. ALL EXPOSED CONDUIT, FITTINGS, ETC. SHALL BE PVC COATED GALVANIZED RIGID STEEL IN ALL AREAS EXCEPT OFFICES AND MECHANICAL ROOM. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL HAVE A MINIMUM RATING OF NEMA 4X IN ALL AREAS EXCEPT OFFICES AND MECHANICAL ROOM. ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL.
2. PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS.
3. ROUTE ALL CONTROL CONDUCTORS FROM CHEMICAL AREA TO MCP THROUGH PB-2D AND ALL ANALOG CONDUCTORS THROUGH PB-2E.
4. SEE WIRING DIAGRAM ON SHEET E0.5.



HVAC POWER & SYSTEMS PLAN
1/4" = 1'-0"
(NOTE 1)

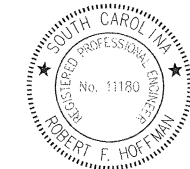
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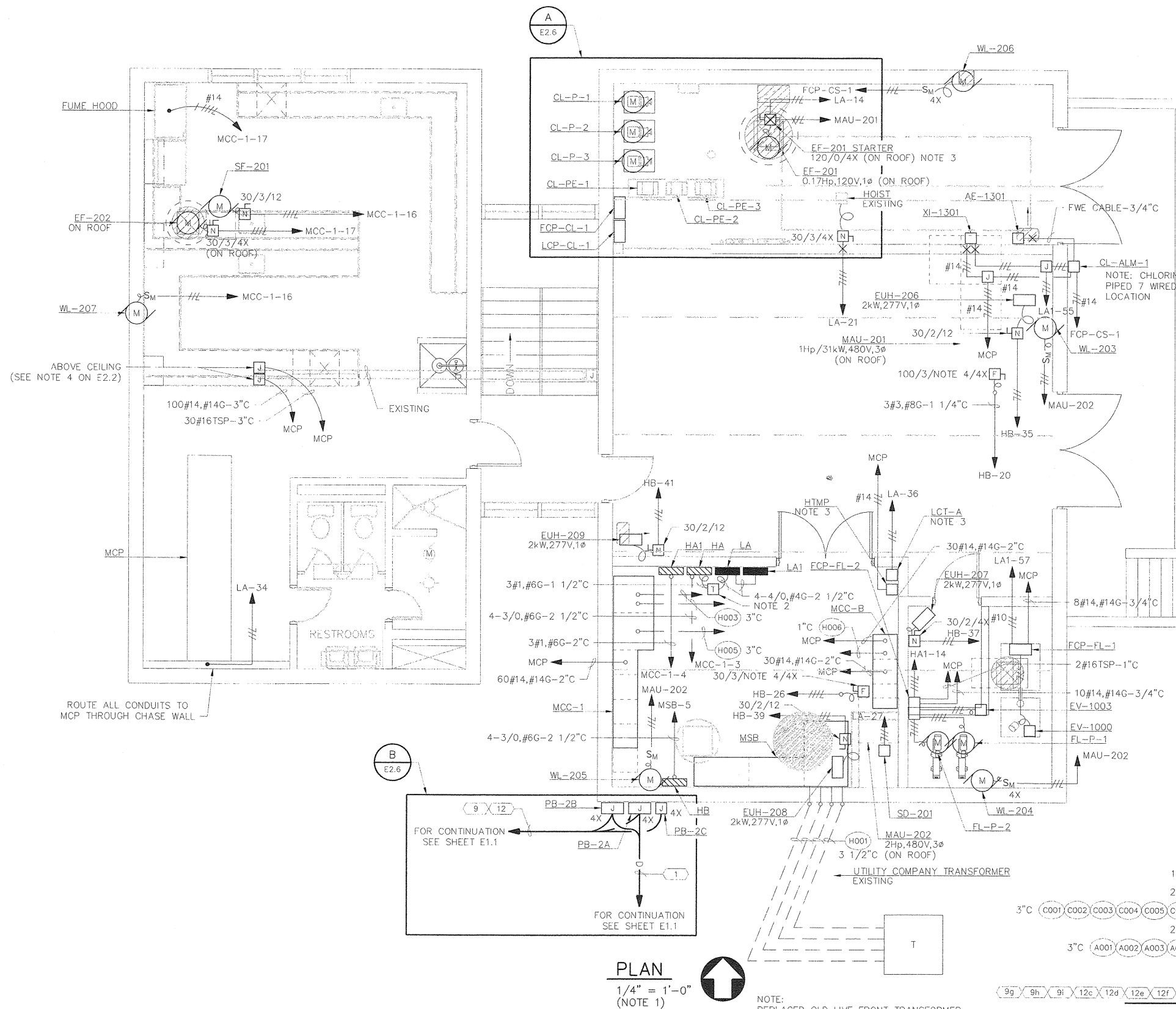


CITY OF GEORGETOWN
SOUTH CAROLINA



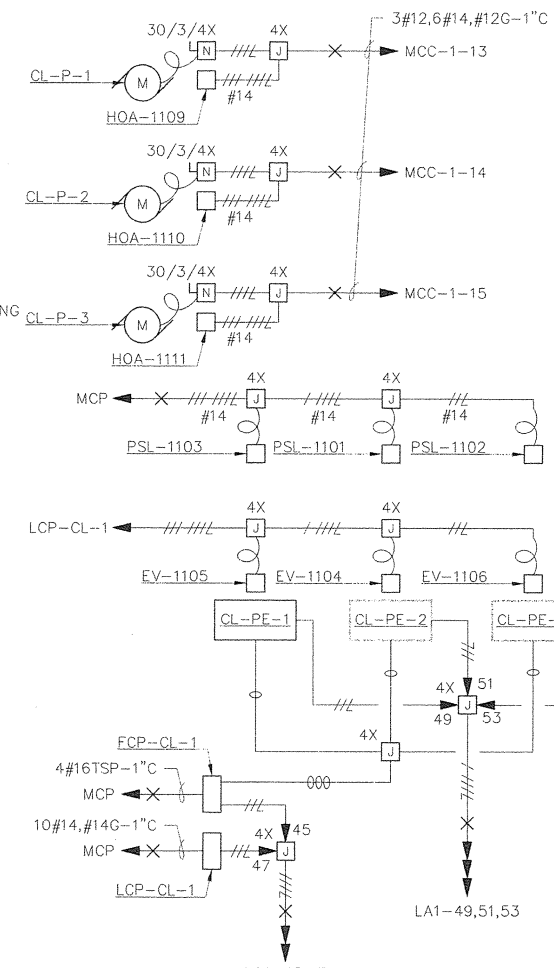
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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS CHEMICAL & ADMINISTRATION BUILDING FIRST FLOOR ELECTRICAL POWER AND SYSTEMS PLAN | | | |
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2000 | E2.5 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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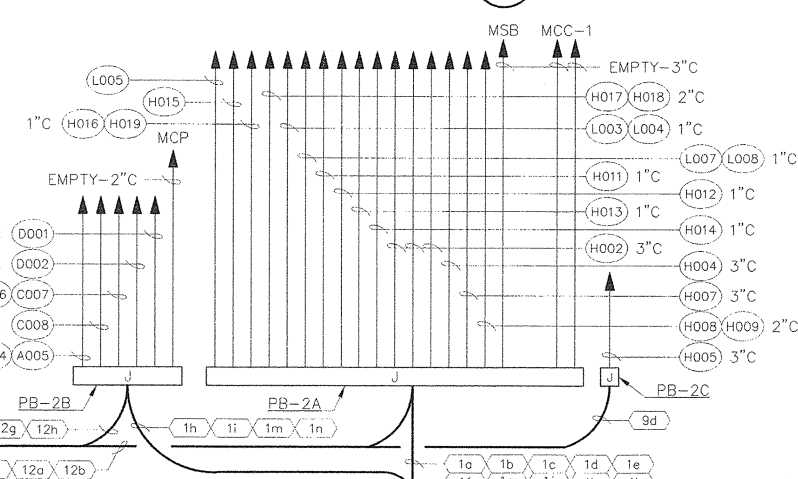


NOTES:

1. ALL EXPOSED CONDUIT, FITTINGS, ETC. IN THE CHLORINE AND FLUORIDE ROOMS AND EXPOSED TO THE WEATHER SHALL BE PVC COATED GALVANIZED RIGID STEEL. ALL ELECTRICAL EQUIPMENT AND DEVICES IN THE CHLORINE AND FLUORIDE ROOMS AND EXPOSED TO THE WEATHER SHALL HAVE A MINIMUM RATING OF NEMA 4X. ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL.
2. MOUNT 8'-0" AFF.
3. SEE WIRING DIAGRAM ON SHEET E0.5.
4. PROVIDE FUSES PER MANUFACTURER'S RECOMMENDATION.
5. RACK CONDUITS ON EXTERIOR WALL. COORDINATE WITH WALL LOUVER AND BUILDING STRUCTURAL COMPONENTS. PROVIDE SPACE ON TOP OF PB-2A, PB-2B AND CONDUIT RACKS FOR 25% FUTURE ADDITIONAL CONDUITS.



DETAIL A
E2.6



DETAIL B
NOTE 5
E2.6

PLAN
1/4" = 1'-0"
(NOTE 1)

NOTE:
REPLACED OLD LIVE FRONT TRANSFORMER
NEW CONCRETE ENCASED DUCT BANK TO
POLE FOR HIGH VOLTAGE NEW FIBER OPTIC
ALSO INSTALLED.

NOTES:
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CITY OF GEORGETOWN
SOUTH CAROLINA



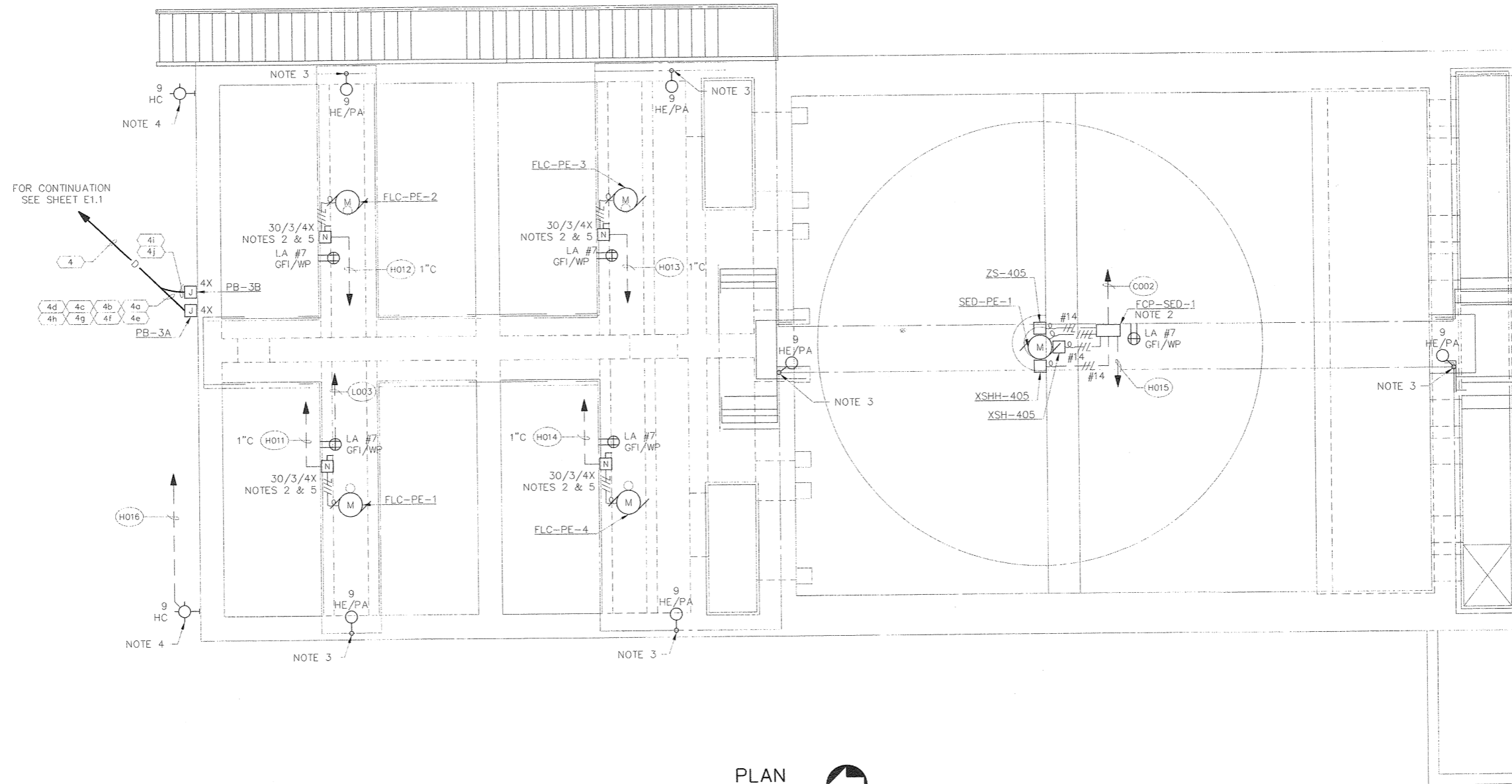
CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS
CHEMICAL & ADMINISTRATION BUILDING
SECOND FLOOR
ELECTRICAL POWER AND SYSTEMS PLAN

| | | | | |
|---------------|------------------|--------------------|-------|-----|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 200 | E2.6 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

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NOTES:

1. ALL EXPOSED CONDUIT, FITTINGS, ETC. SHALL BE PVC COATED GALVANIZED RIGID STEEL. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL HAVE A MINIMUM RATING OF NEMA 4X. ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL.
2. MOUNT ON HANDRAIL.
3. SEE MOUNTING DETAIL ON SHEET E0.8.
4. MOUNT 10'-0" AFG.
5. PROVIDE AUXILIARY INTERLOCK TO SHUT DOWN DRIVE WHEN DISCONNECT IS IN OFF POSITION.



PLAN
 1/4" = 1'-0"
 (NOTE 1)

NOTES:
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CITY OF GEORGETOWN
 SOUTH CAROLINA



CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS

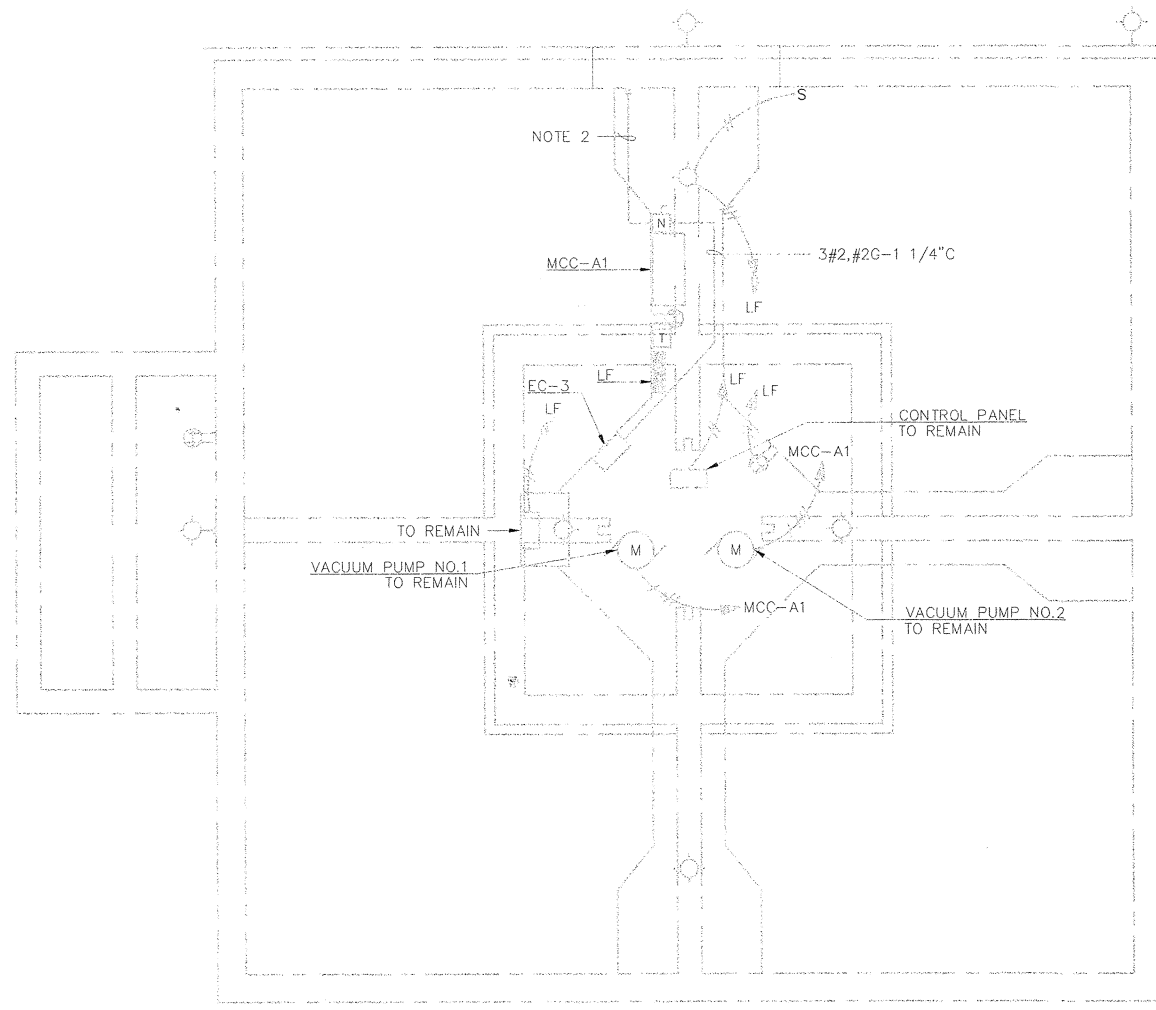
FLOCCULATION/SEDIMENTATION BASIN
 ELECTRICAL PLAN

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: WAC | CHECKED: | DATE: NOVEMBER 2001 | E3.1 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |


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 02/15/02

NOTES:

1. ALL ELECTRICAL EQUIPMENT DEPICTED ON THIS DRAWING SHALL BE REMOVED UNLESS OTHERWISE INDICATED. REMOVAL OF LIGHTING FIXTURES SHALL INCLUDE REMOVAL OF FIXTURE, MOUNTING HARDWARE, SWITCHES, SWITCH PLATES AND CONDUCTORS. CONDUCTORS SHALL BE REMOVED BACK TO PANELBOARD, CONDUIT SHALL BE REMOVED TO THE EXTENT POSSIBLE AND REMAINING SECTIONS TAGGED "ABANDONED MM/DD/YY". CONDUIT AND BOXES LOCATED IN MASONRY WALLS FOR LIGHT SWITCHES AND RECEPTACLES MAY REMAIN IN PLACE FOR FUTURE USE.
2. CONDUCTORS TO CIRCUIT DESIGNATED TO BE REMOVED. SEE ONE-LINE DIAGRAM ON SHEET E0.2 FOR CONDUCTOR SIZE AND QUANTITY.



PLAN
 1/4" = 1'-0"
 (NOTE 1)



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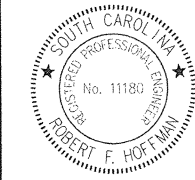
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| NO. | DATE | DESCRIPTION OF REVISION |
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| 1 | 09-02-01 | RECORD DRAWING |
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CITY OF GEORGETOWN
 SOUTH CAROLINA



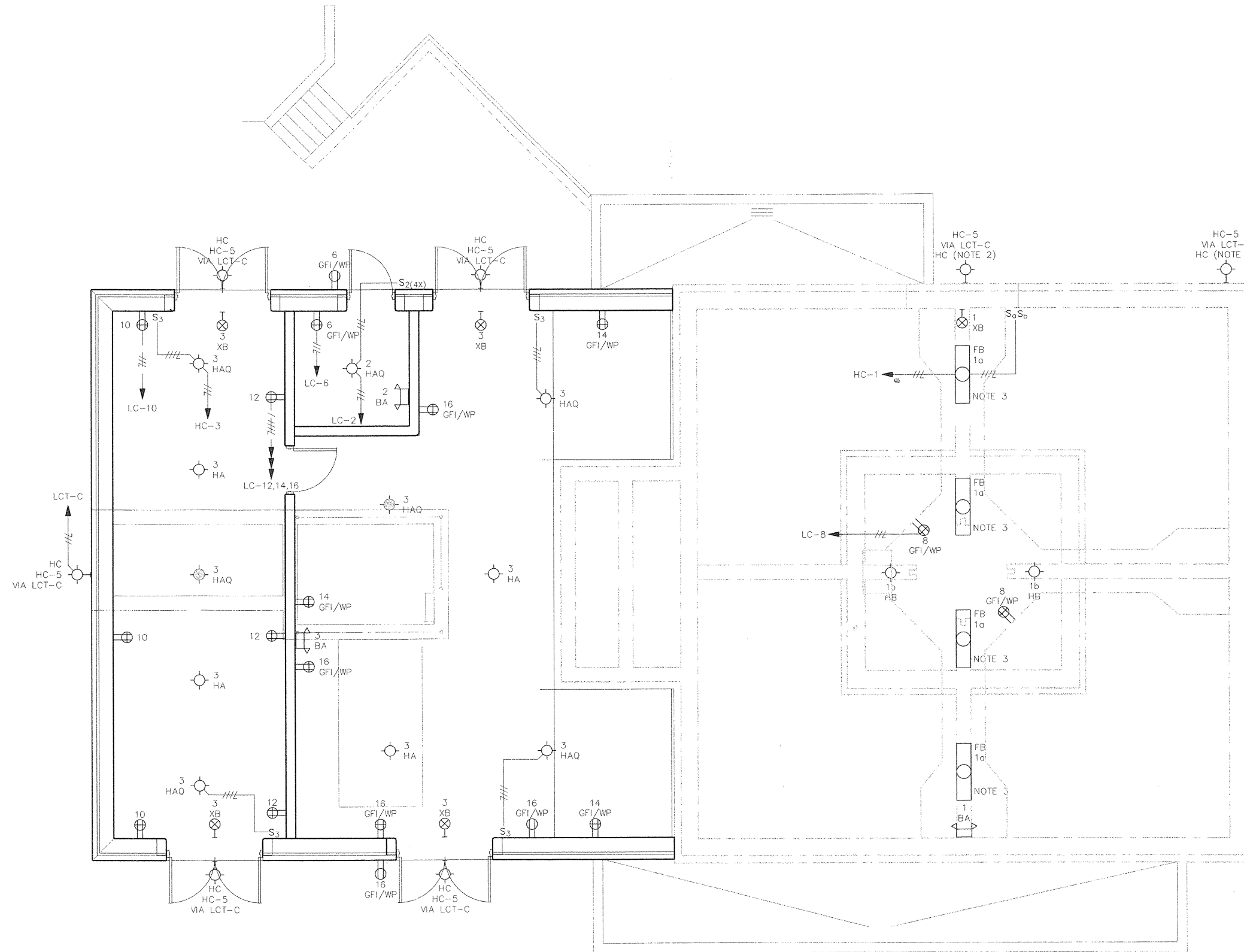
CITY OF GEORGETOWN
 WATER TREATMENT PLANT IMPROVEMENTS

**FILTER BUILDING
 ELECTRICAL DEMOLITION PLAN**

| | | | | |
|---------------|------------------|---------------------|-------|-----|
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2001 | E4.1 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

NOTES:

1. ALL EXPOSED CONDUIT, FITTINGS, ETC. SHALL BE PVC COATED GALVANIZED RIGID STEEL. IN ALL AREAS EXCEPT THE MAINTENANCE ROOM. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL HAVE A MINIMUM RATING OF NEMA 4X. IN ALL AREAS EXCEPT THE MAINTENANCE ROOM. ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL. SEE SHEET E4.3.
2. MOUNT IN LOCATION OF EXISTING (REMOVED) FIXTURE.
3. MOUNT/SUSPEND 10'-0" ABOVE WALKWAY.



PLAN
1/4" = 1'-0"
(NOTE 1)

NOTES:
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CITY OF GEORGETOWN
SOUTH CAROLINA

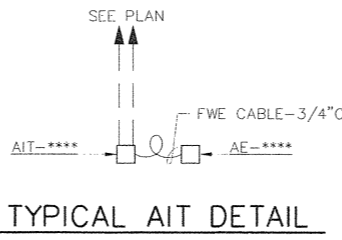
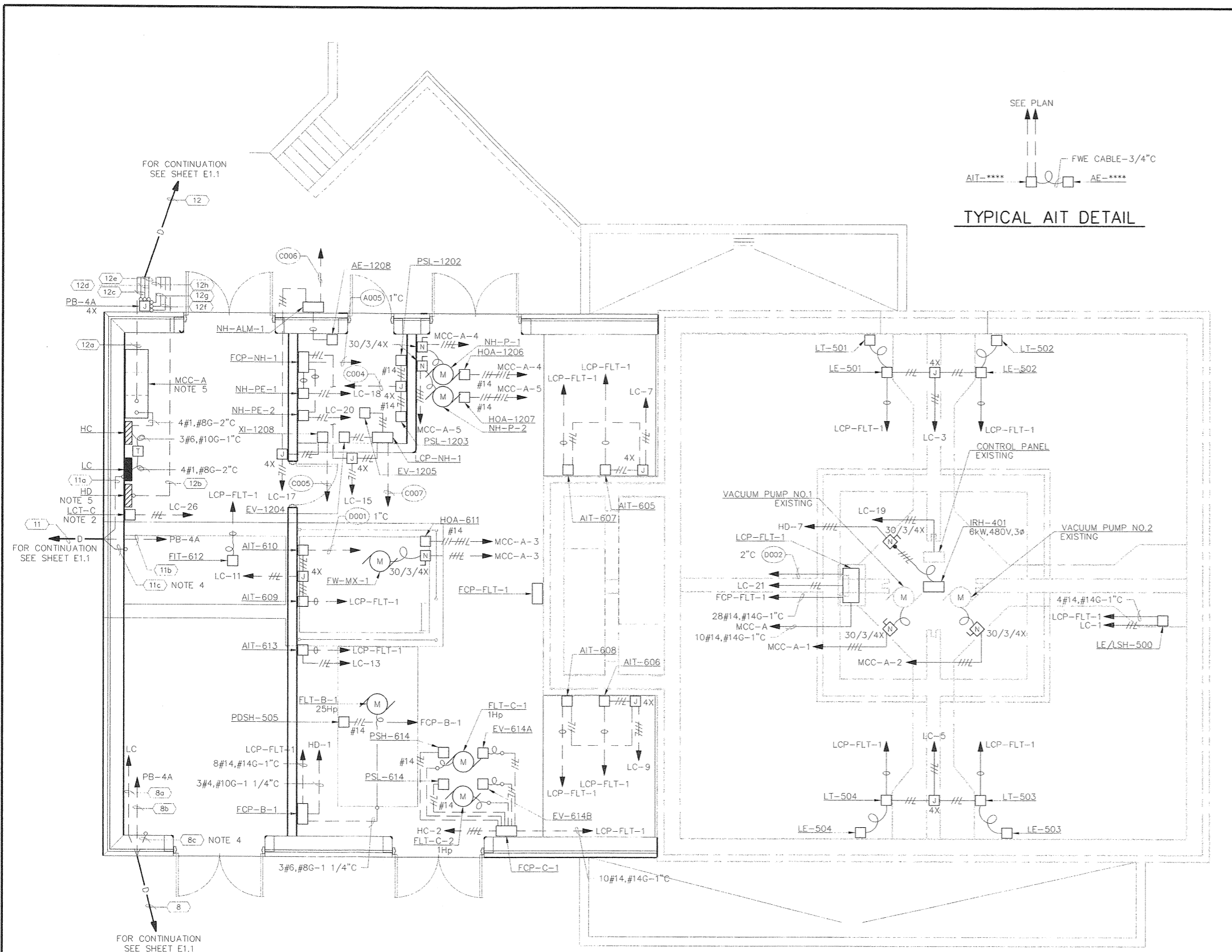


CITY OF GEORGETOWN
WATER TREATMENT PLANT IMPROVEMENTS

**FILTER BUILDING
ELECTRICAL LIGHTING AND RECEPTACLES PLAN**

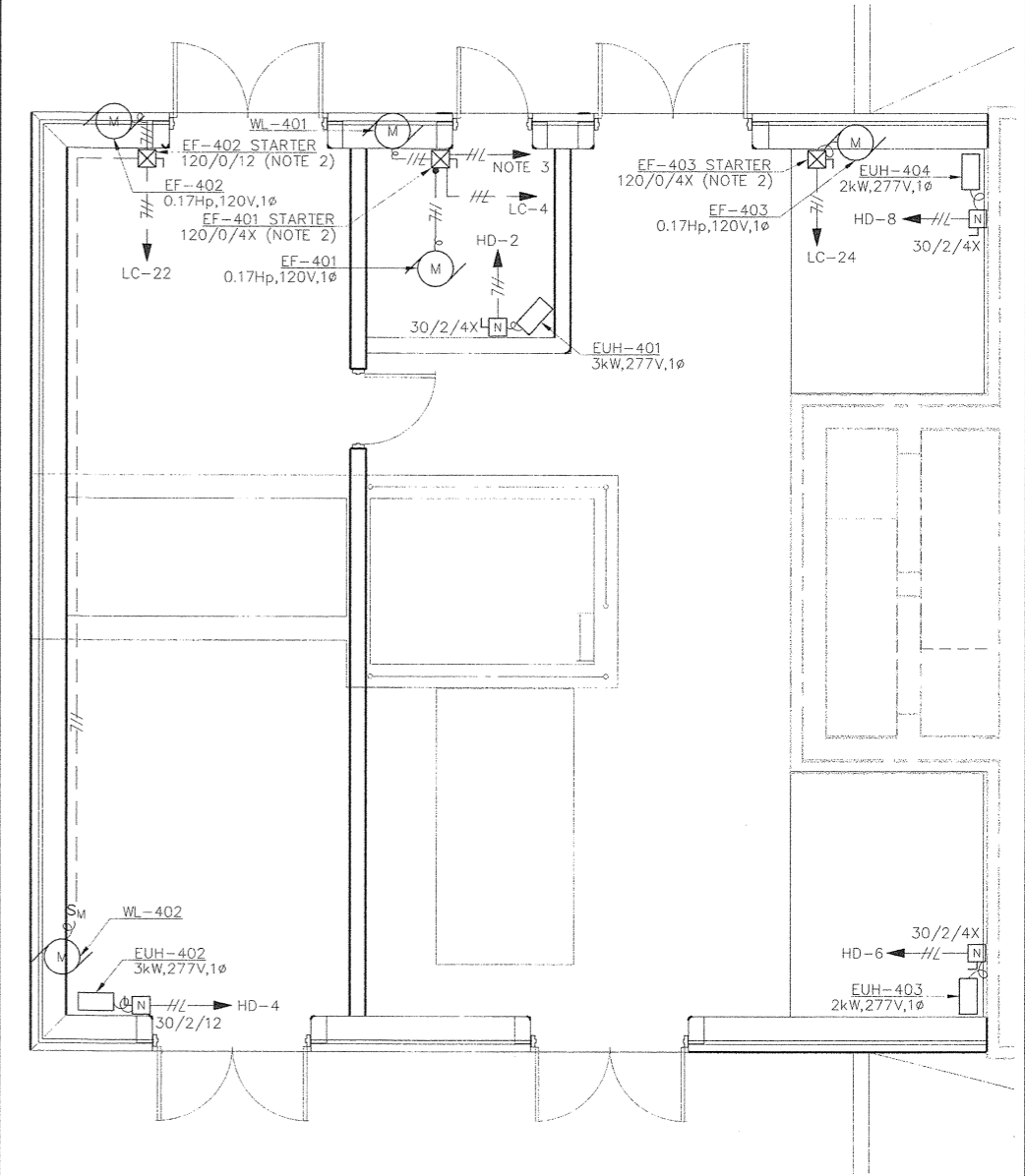
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| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2001 | E4.2 | 1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | SHEET | REV |

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NOTES:

1. ALL EXPOSED CONDUIT, FITTINGS, ETC. SHALL BE PVC COATED GALVANIZED RIGID STEEL IN ALL AREAS EXCEPT THE MAINTENANCE ROOM. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL HAVE A MINIMUM RATING OF NEMA 4X IN ALL AREAS EXCEPT THE MAINTENANCE ROOM. ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL.
2. SEE WIRING DIAGRAM ON SHEET E0.5.
3. TO LIGHT SWITCH. SEE SHEET E4.2.
4. STUB UP 6", CAP AND TAG.
5. PROVIDE SIGNS PER NEC 230-2(e).



HVAC POWER & SYSTEMS PLAN
 1/4" = 1'-0"
 (NOTE 1)

PLAN
 1/4" = 1'-0"
 (NOTE 1)

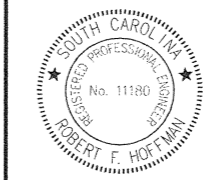
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CITY OF GEORGETOWN
SOUTH CAROLINA

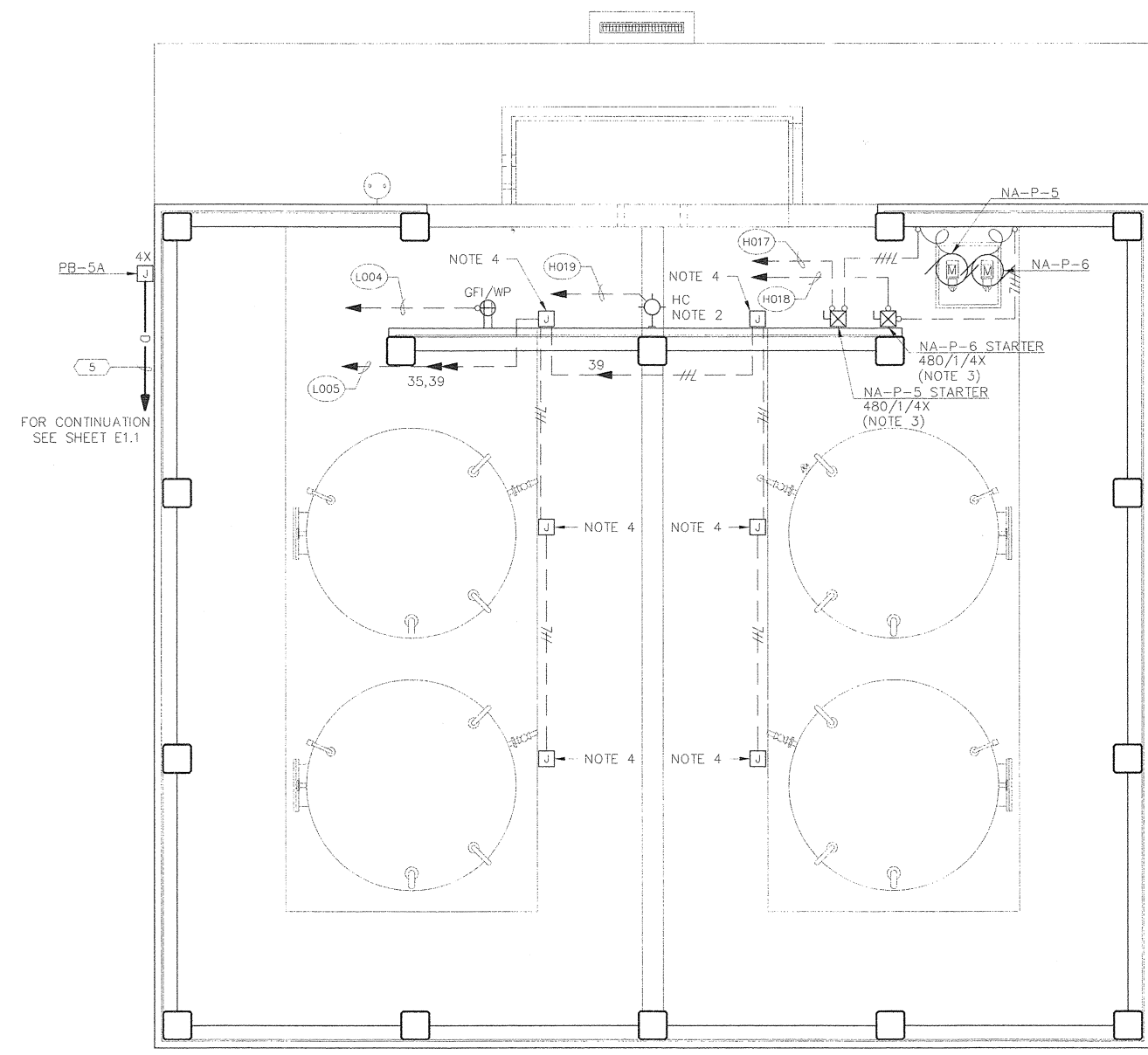


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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| FILTER BUILDING ELECTRICAL POWER AND SYSTEMS PLAN | | | |
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2004 | E4.3 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 |
| | | | REV |

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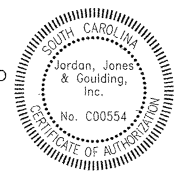
NOTES:

1. ALL EXPOSED CONDUIT, FITTINGS, ETC. SHALL BE PVC COATED GALVANIZED RIGID STEEL. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL HAVE A MINIMUM RATING OF NEMA 4X. ALL SUPPORTING MATERIALS AND HARDWARE SHALL BE STAINLESS STEEL.
2. MOUNT AT 10'-0" AFG.
3. SEE SHEET E0.5 FOR WIRING DIAGRAM.
4. HINGED COVER NEMA 4X JUNCTION BOX WITH TERMINAL STRIPS ON BACK PANEL FOR CONNECTION OF ELECTRICAL HEAT TRACE. COORDINATE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 15250.



PLAN
1/4" = 1'-0"
(NOTE 1)

NOTES:
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. AS A RESULT, THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT.



| NO. | DATE | DESCRIPTION OF REVISION |
|-----|----------|-------------------------|
| 1 | 08-02-01 | RECORD DRAWING |
| 0 | 12-15-99 | INITIAL ISSUE |



CITY OF GEORGETOWN
SOUTH CAROLINA



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| CITY OF GEORGETOWN WATER TREATMENT PLANT IMPROVEMENTS | | | |
| FERRIC CHLORIDE AND CAUSTIC BULK TANKS ELECTRICAL PLAN | | | |
| DESIGNED: GAB | CHECKED: | DATE: NOVEMBER 2004 | E5.1 |
| DRAWN: LAB | JOB NO. 2193.006 | SCALE: AS SHOWN | 1 REV |

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32.13.02