**Project #:** **N/A**

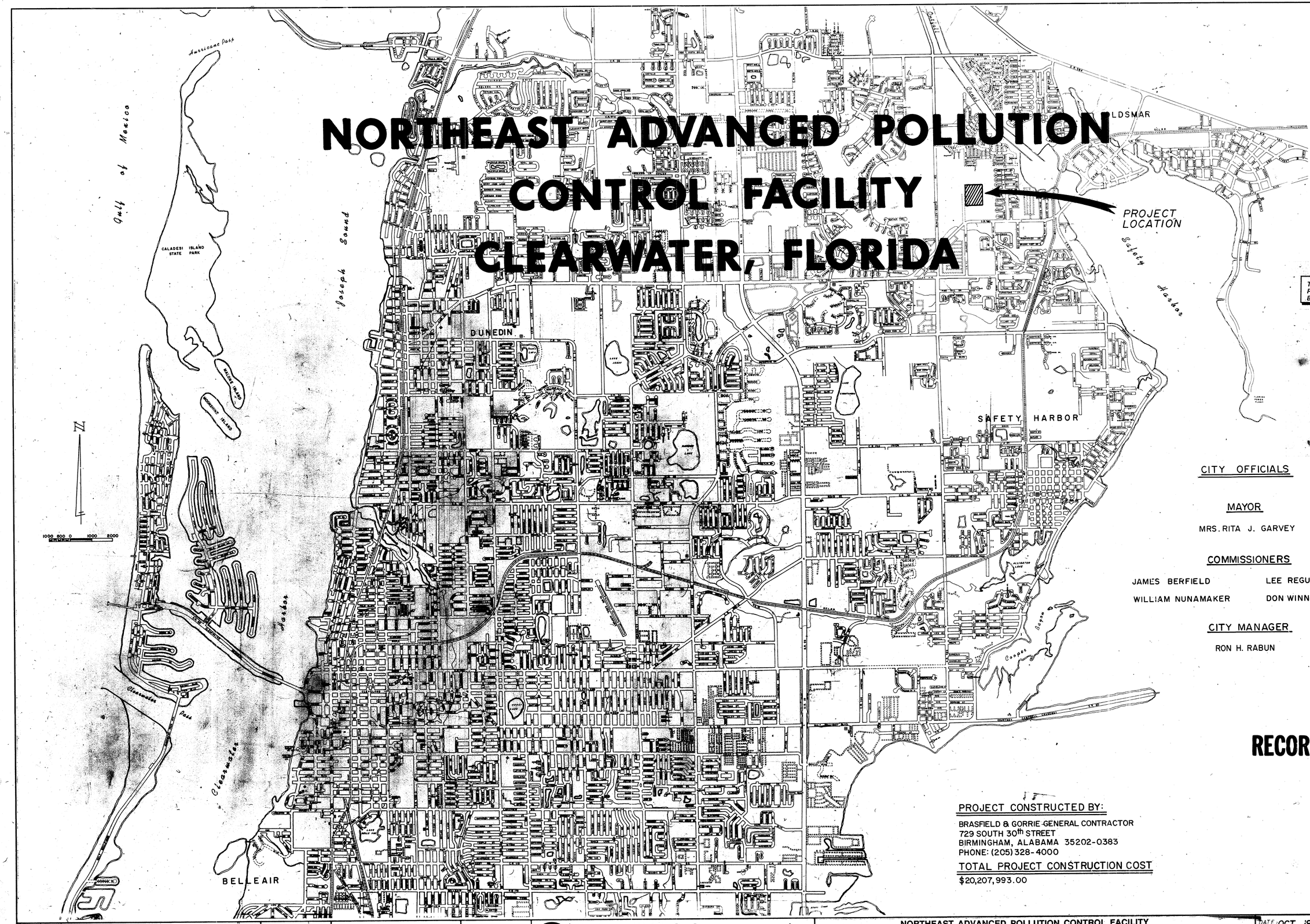
**Project Name** **NORTHEAST ADVANCED POLLUTION CONTROL FACILITY CLEARWATER, FLORIDA (RECORD DRAWING)**

**Job #:** **92016**

**Consultant:** **BRILEY, WILD & ASSOCIATES, INC.**

Engineering: Document Name Use Job #.

# NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
# CLEARWATER, FLORIDA

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## RECORD DRAWING

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**TOTAL PROJECT CONSTRUCTION COST**

$20,207,993.00

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**COVER SHEET & PROJECT LOCATION**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1" = 2000'
SHEET NO. 1 OF 166

PROJ. NO. 87054-2
FILE NO. 12974

92016

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| REV. NO. | DATE | REVISION | BY |
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| 1 | 3/16/92 | RECORD DRAWING | RAP |

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ORMOND BEACH - DAYTONA BEACH - CLEARWATER - BRADENTON, FLORIDA

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
INDEX TO SHEETS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 2 OF 166
PROJ. NO. 87054-2
FILE NO. 12975

92016

PRF-051: (30, 377) 377120, DATE=16-MAR-92, TIME=17: 09: 33 !

# ABBREVIATIONS

| | |
|---|---|
| # | NUMBER |
| @ | AT |
| A | AMPERE |
| A.C. | ALTERNATING CURRENT |
| A.C.C.U. | AIR CONDITIONING CONDENSING UNIT |
| A.C.H.P. | AIR COOL HEAT PUMP |
| A.C.I. | AMERICAN CONCRETE INSTITUE |
| A.H.U. | AIR HANDLING UNIT |
| A.I.S.C. | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| A.R.I. | AMERICAN REFRIGERATION INSTITUTE |
| A.S.C.E. | AMERICAN SOCIETY OF CIVIL ENGINEERS |
| A.S.T.M. | AMERICAN SOCIETY FOR TESTING OF MATERIALS |
| A.T.S. | AUTOMATIC TRANSFER SWITCH |
| AASHTO | AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS |
| AC | AIR CONDITIONER / ASPHALTIC CONCRETE |
| ADD'L. | ADDITIONAL |
| AFF | ABOVE FINISHED FLOOR |
| ALT | ALTERNATOR |
| ALUM./AL. | ALUMINUM |
| ANCH./ANC. | ANCHOR |
| APPD. | APPROVED |
| APPL. | APPLIED |
| APPROX. | APPROXIMATE |
| ASPH. PAVT. | ASHPALT PAVEMENT |
| AVG./AVE. | AVERAGE |
| B. | BOTTOM |
| B. | BOTTOM |
| B.D. | BELT DRIVE |
| B.T.U. | BRITISH THERMAL UNITS |
| B.V. | BUTTERFLY VALVE |
| BATT. | BATTERY |
| BLDG. | BUILDING |
| BLK. | BLOCK |
| BM | BEAM |
| BOTT./BOT. | BOTTOM |
| C. | CONDUIT / CHANNEL |
| C.B. | CATCH BASIN |
| C.F.M. | CUBIC FEET PER MINUTE |
| C.I.P. | CAST IRON PIPE |
| C.J. | CONSTRUCTION JOINT |
| C.M.P. | CORRUGATED METAL PIPE |
| C.P. | CONCRETE PIPE |
| CTG | COATING |
| C.V. | CHECK VALVE |
| C.W. | COLD WATER |
| CHEM. | CHEMICAL |
| CHG. | CHANGE |
| CHLSOL. | CHLORINE SOLUTION |
| CKT | CIRCUIT |
| CL | CENTERLINE |
| Cl2 | CHLORINE |
| CMU | CONCRETE MASONRY UNIT |
| CO. | CLEANOUT |
| COL. | COLUMN |
| COMP | COMPRESSOR |
| CONC. | CONCRETE |
| COND. | CONDENSER |
| CONN. | CONNECTOR |
| CONST. | CONSTRUCTION |
| CONTD. | CONTINUED |
| CONT. | CONTINUOUS |
| CONTR. | CONTRACTOR |
| COP | COEFFICIENT OF PERFORMANCE |
| CORP. | CORPORATION |
| CORR. | CORRUGATED |
| CTRS. | CENTERS |
| CU | COPPER |
| CU. | CUBIC |
| CYL. | CYLINDER |
| D | DEEP/ DRAIN |
| D.D. | DIRECT DRIVE |
| D.I.P. | DUCTILE IRON PIPE |
| D.O. | DISSOLVED OXYGEN |
| DBL. | DOUBLE |
| DET'L | DETAIL |
| DET. | DETAIL |
| DEW. | DEWATERING |
| DIA. | DIAMETER |
| DISCH. | DISCHARGE |
| DISTR. | DISTRIBUTION |
| DIV. | DIVISION |
| DN | DOWN |
| DPSL. | DIGESTED PRIMARY SLUDGE |
| DS. | DOWNSPOUT |
| DT. | DIGESTER TANK |
| DW | DEWATERING |
| DWG. | DRAWING |
| E-W | EAST-WEST |
| E.F. | EACH FACE. |
| E.W. | EACH WAY |
| E.W.H. | ELECTRIC WATER HEATER |
| EA. | EACH |
| ECC | ECCENTRIC |
| EER | ENERGY EFFICIENCY RATIO |
| EF | EXHAUST FAN |
| EFFL. | EFFLUENT |
| EFW | EFFLUENT FLUSHING WATER |
| EL./ELEV. | ELEVATION |
| ELEC. | ELECTRICAL |
| ELL | ELBOW |
| EMERG. | EMERGENCY |
| EQUIP. | EQUIPMENT |
| ETC. | AND SO FORTH |
| EXIST. | EXISTING |
| EXP. | EXPOSED / EXPANSION |
| EXT. | EXTERIOR |
| F.A. | FREE AREA |
| F.B.V. | FULL BEARING VALVE |
| F.D. | FLOOR DRAIN |
| F.M. | FORCE MAIN |
| FERM. | FERMENTATION |
| FIN. | FINISHED |
| FLEX. | FLEXIBLE |
| FLG. | FLANGE |
| FLR. | FLOOR |
| FT. | FOOT |
| FTG. | FOOTING |
| FVNR | FULL VOLTAGE NON REVERSING |
| G. | GAUGE / GAGE / GRIT |
| G.E. | GENERAL ELECTRIC |
| G.P.M. | GALLONS PER MINUTE |
| G.S. | GALVANIZED STEEL |
| G.V. | GATE VALVE |
| GAL. | GALLON |
| GALV. | GALVANIZED |
| GEN. | GENERATOR |
| GL. | GLAZED |
| GRD./GR. | GRADE |
| GSP | GALVANIZED STEEL PIPE |
| GYP.BD. | GYPSUM BOARD |
| H. | HALF / HIGH |
| H.B. | HOSE BIBB |
| H.C. | HOLLOW-CORE |
| H.P. | HORSEPOWER |
| H.R. | HANDRAIL |
| H.V. | HIGH VELOCITY |
| H.V.A.C. | HEATING, VENTILATION, & AIR CONDITIONING |
| H.W. | HOT WATER |
| HDWR | HARDWARE |
| HK. | HOOK |
| HORIZ. | HORIZONTAL |
| HRS. | HOURS |
| HT. | HEIGHT |
| HYD. | HYDRAULIC |
| I | I-BEAM |
| IND. | INDOOR / INDICATING |
| INV. | INVERT |
| J T. | JOINT |
| KW | KILOWATTS |
| L | ANGLE |
| L.W. | LONG WAYS |
| L.W.L | LOW WATER LEVEL |
| LBS. | POUNDS |
| LG. | LONG |
| LIQ. | LIQUID |
| LNDG. | LANDING |
| LP | LIGHT PANEL |
| LT. | LIGHT |
| LTG | LIGHTING |
| LTS. | LIGHTS |
| M | MOTOR |
| M.H. | MANHOLE |
| mA | MILLIAMP |
| MAINT. | MAINTENANCE |
| MAT'L. | MATERIAL |
| MAX. | MAXIMUM |
| MCC | MOTOR CONTROL CENTER |
| MCM | THOUSAND CIRCULAR MILLS |
| MFG. | MANUFACTURING |
| MFR. | MANUFACTURER |
| MILS. | ONE THOUSANDTH OF AN INCH |
| MIN. | MINIMUM |
| N.T.S. | NOT TO SCALE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NO. | NUMBER |
| NPT | NATIONAL PIPE THREAD |
| ø | DIAMETER / PHASE |
| O.A. | OUTSIDE AIR |
| O.B. | OPPOSED BLADE |
| O.C. | ON CENTER |
| OL | OVERLOAD |
| OPNG. | OPENING |
| OPP. | OPPOSITE |
| OUTD. | OUTDOOR |
| P.B. | PUSHBUTTON |
| P.C. | PIPE COLUMN |
| P.S. | PUMP STATION |
| P.S.C. | PRESTRESSED CONCRETE |
| P.S.I. | POUNDS PER SQUARE INCH |
| P.T. | POTENTIAL TRANSFORMER |
| PTD | PAINTED |
| P.V. | PLUG VALVE |
| P.V.C. | POLYVINYL CHLORIDE PIPE |
| PKG. | PACKAGE |
| PL | PLATE |
| PRESS. | PRESSURE |
| PRV | PRESSURE RELIEF VALVE |
| PT | POTENTIAL TRANSFORMER |
| PTD. | PAINTED |
| QTY. | QUANTITY |
| R. | RADIUS / RISER / RELAY |
| R.C.P. | REINFORCED CONCRETE PIPE |
| R.P.M. | REVOLUTIONS PER MINUTE |
| RAS | RETURN ACTIVATED SLUDGE |
| RECPT. | RECEPTION |
| RED. | REDUCING |
| REF. | REFERENCE |
| REINF. | REINFORCE |
| REQD. | REQUIRED |
| RGS | RIGID GALVANIZED STEEL |
| RSL. | RETURN SLUDGE |
| RT. | RIGHT |
| S.L.L. | SUPERIMPOSED LIVE-LOAD |
| S.P. | STATIC PRESSURE |
| S.S. | STAINLESS STEEL |
| S/W | SIDEWALK |
| SO2 | SULFER DIOXIDE |
| SAN. | SANITARY |
| SCH | SCHEDULE |
| SCHD. | SCHEDULE |
| SCR | SILICON CONTROLLED RECTIFIER |
| SD. | STORM DRAIN |
| SEER | SEASONAL EFFICIENCY RATIO |
| SEW | RAW SEWAGE |
| SHT. | SHEET |
| SL | SLUDGE |
| SNT. | SUPERTNATANT |
| SPRKLR | SPRINKLER |
| SQ. | SQUARE |
| STD. | STANDARD |
| STG. | STORAGE |
| STL. | STEEL |
| STOR. | STORAGE |
| STR. | STRUCTURAL |
| SUCT. | SUCTION |
| SUPPT. | SUPPORT |
| SUSP. | SUSPENDED |
| SWD. | SIDEWALL DEPTH |
| SYMM. | SYMMETRICAL |
| T | TREADS |
| T. &B. | TOP & BOTTOM |
| T.V. | TOILET VENTILATOR |
| T.W. | TREATED WATER |
| TDH. | TOTAL DYNAMIC HEAD |
| TEL.SERV.BX. | TELEPHONE SERVICE BOX |
| TEMP. | TEMPORARY |
| THK. | THICK |
| TP. | TOP |
| TWAS | THICKENED WASTE ACTIVATED SLUDGE |
| TYP. | TYPICAL |
| U.S. | UNITED STATES |
| UNC. | UNIFIED COARSE |
| V. | VOLT |
| V.A.C. | VOLTS ALTERNATING CURRENT |
| V.B. | VALVE BOX |
| V.C. | VITREOUS CHINA |
| V.D.C. | VOLTS DIRECT CURRENT |
| V.S. | VALVE STAND |
| V.T.R. | VENT THRU ROOF |
| VERT. | VERTICAL |
| VFD | VARIABLE FREQUENCY DRIVE |
| W | WIDE FLANGE / WIDE / WATT |
| W.L. | WATER LEVEL |
| W.S. | WALL SLEEVE / WATERSTOP / WATER SURFACE |
| W.W.F. | WELDED WIRE FABRIC |
| W / | WITH |
| WAS | WASTE ACTIVATED SLUDGE |
| WC | TOILET (WATER CLOSET) |
| WH | WATER HEATER |
| WK. | WEEK |
| WP | WATER PROOFING |
| WSL | WASTE SLUDGE |
| WT | STRUCTURAL TEE |
| XFMR | TRANSFORMER |
| YR. | YEAR |

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**NOTE:**

ABBREVIATIONS LISTED ON THIS SHEET ARE INTENDED AS A GENERAL REFERENCE. WHERE CONFLICTS OCCUR BETWEEN THIS SHEET AND INDIVIDUAL SHEETS, THE ABBREVIATION OR LEGEND ON THE INDIVIDUAL SHEET SHALL GOVERN.

## SYMBOL LEGEND

| | |
|---|---|
| ARCHITECTURAL | ROOM NUMBER |
| | WINDOW/ LOUVER |
| | DOOR |
| STRUCTURAL | FOOTING |
| | COLUMN |
| MECHANICAL | GATES |
| | EQUIPMENT |

## SECTION DESIGNATION

SECTION NAME (LETTER ONLY, NO NUMBERS) — SHEET WHERE SECTION WAS TAKEN — SHEET WHERE SECTION IS SHOWN

A
6 | 7

## DETAIL CALLOUT

DETAIL IDENTIFICATION (NO'S ONLY, NO LETTERS) — SHEET WHERE DETAIL IS SHOWN

2
4

## VALVE SYMBOLS

| | |
|---|---|
| BUTTERFLY VALVE | BV OR BF.V. |
| PLUG VALVE | PV |
| BALL VALVE | BLV |
| GLOBE VALVE | GLV |
| GATE VALVE | GV |
| CHECK VALVE | CV |

**RECORD DRAWING**

| STATUS | ACTION, DATE |
|---|---|
| RD | 4-21-92, |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | RELEASED FOR CONSTRUCTION (RESTRICTIONS NOTED) |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|

DESIGNED YCL (ENGINEER OF RECORD)
DRAWN SGO
CHECKED SRS

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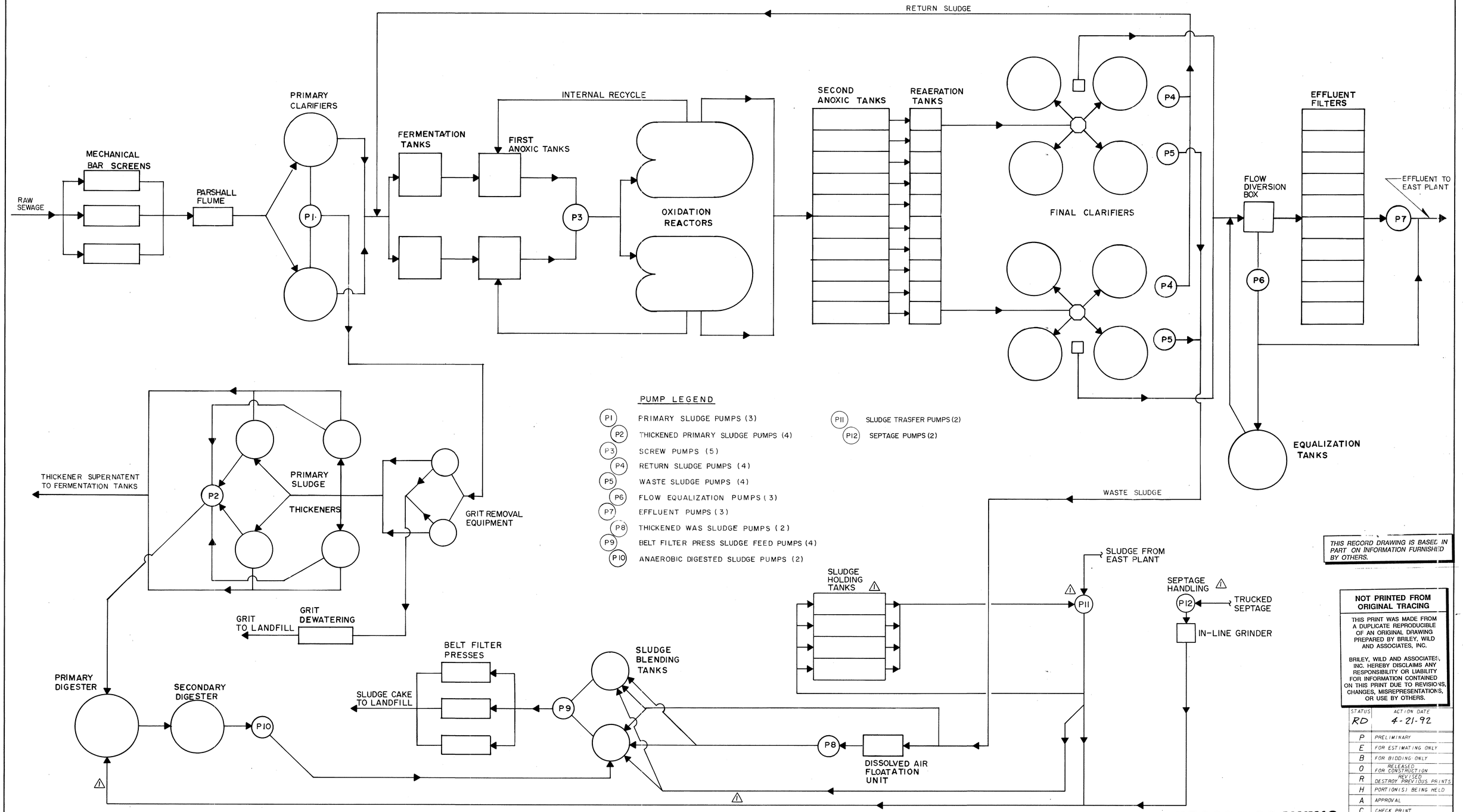
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
KEY TO ABBREVIATIONS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 3 OF 166
PROJ. NO. 87054-2
FILE NO. 12976

92016

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

**RECCRD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3-16-92 | REVISED PER E.O. # 15,23 & RECORD DRAWINGS | RAP |

DESIGNED YCL
DRAWN RJC 5-20
CHECKED YCL
ENGINEER OF RECORD:

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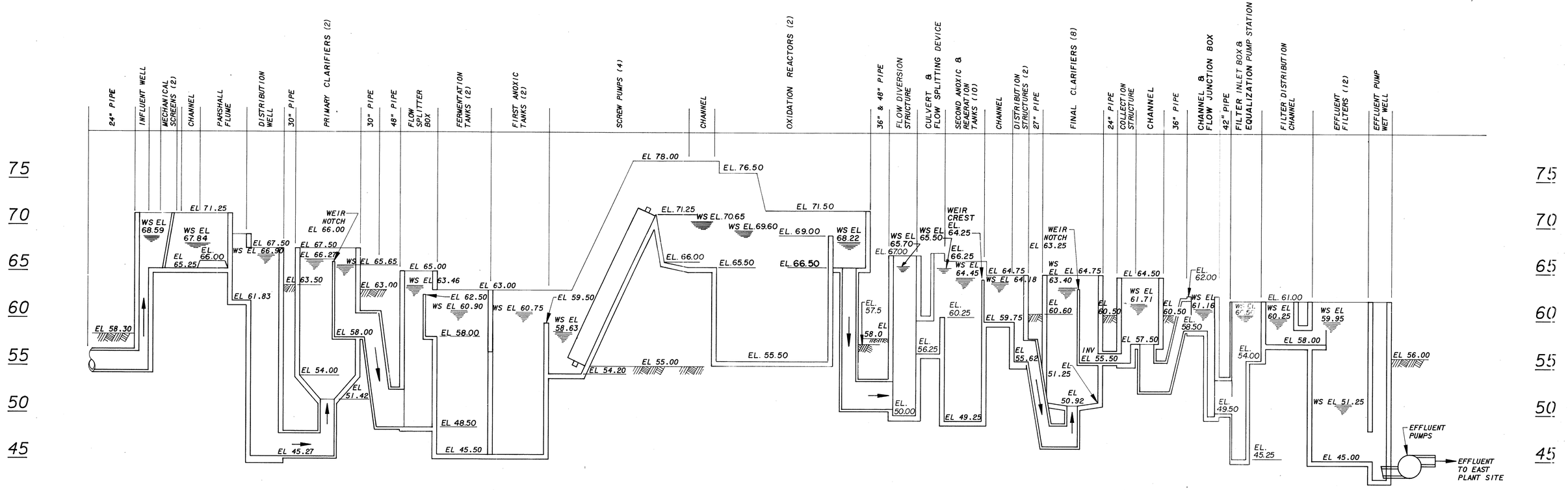
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**PROCESS FLOW SCHEMATIC**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 4 OF 166
PROJ. NO. 87054-2
FILE NO. 12977

92016




THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

NOTES:

1. INDICATED WATER SURFACES ARE FOR PEAK HYDRAULIC FLOW CONDITIONS OF 27 MGD TO THE PLANT WITH NUMBER OF OPERATING PROCESS UNITS NOTED IN THE PARENTHESIS.
2. INDICATED TANK FLOOR ELEVATIONS INCLUDE GROUT.

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|

DESIGNED YCL
DRAWN
CHECKED YCL

ENGINEER OF RECORD:

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*Ormond Beach - Clearwater - Bradenton, Florida*

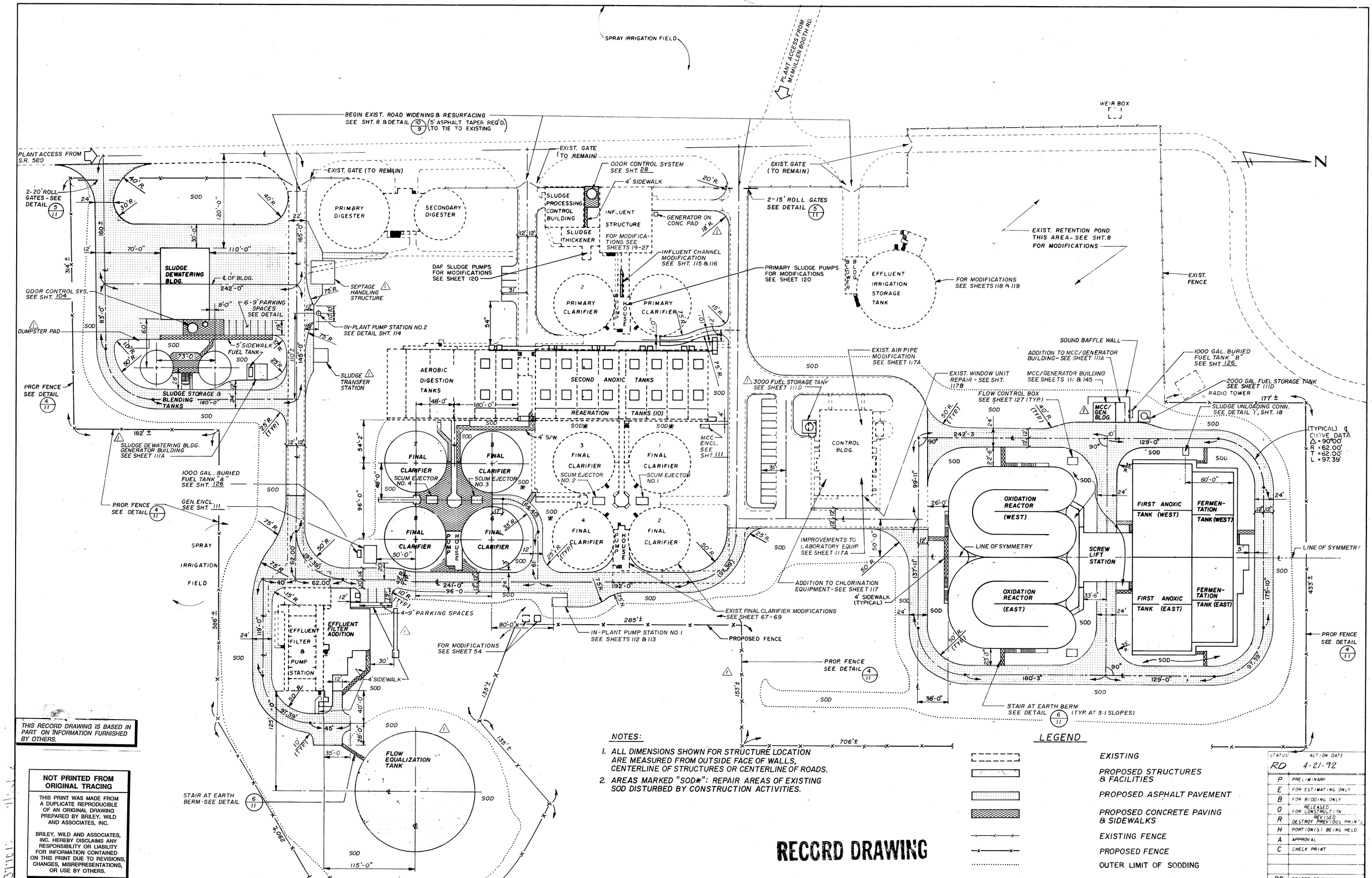
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**HYDRAULIC PROFILE**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 5 OF 166

PROJ. NO. 87054-2
FILE NO. 12978

92016

377010 3.8.88

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NOTES:

1. ALL DIMENSIONS SHOWN FOR STRUCTURE LOCATION ARE MEASURED FROM OUTSIDE FACE OF WALLS, CENTERLINE OF STRUCTURES OR CENTERLINE OF ROADS.
2. AREAS MARKED "SOD*": REPAIR AREAS OF EXISTING SOD DISTURBED BY CONSTRUCTION ACTIVITIES.

LEGEND

- EXISTING
- PROPOSED STRUCTURES & FACILITIES
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVING & SIDEWALKS
- EXISTING FENCE
- PROPOSED FENCE
- OUTER LIMIT OF SODDING

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 8-27-91 | REVISED PER E.O. #3, 15 & 21 & RECORD DRAWING | GLB |

DESIGNED YCL
DRAWN SGO KRM
CHECKED GRS

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:

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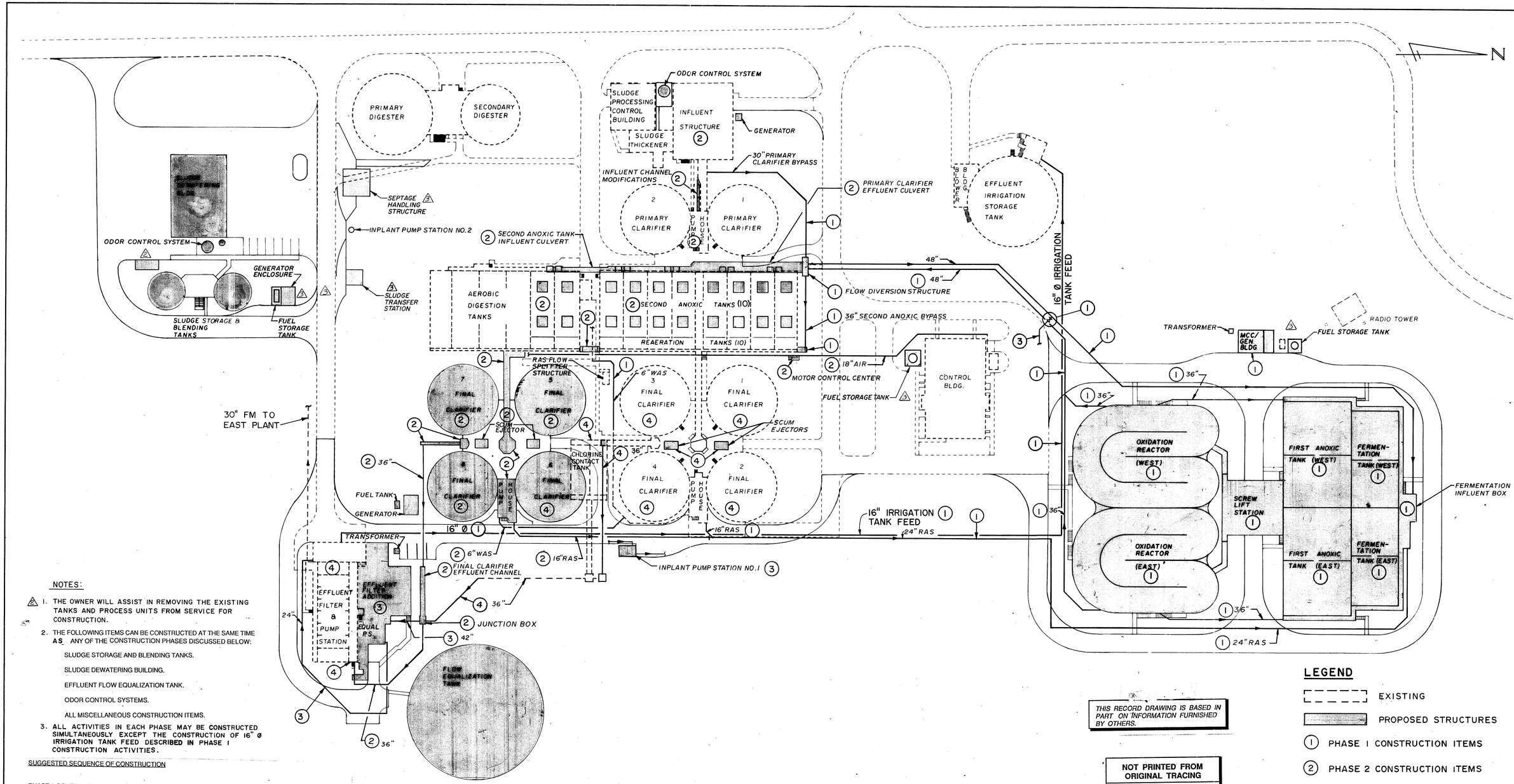
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SITE LAYOUT PLAN**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1" = 50'-0"
SHEET NO. 6 OF 166

PROJ. NO. 87054-2
FILE NO. 12979

92016




NOTES:

1. THE OWNER WILL ASSIST IN REMOVING THE EXISTING TANKS AND PROCESS UNITS FROM SERVICE FOR CONSTRUCTION.
2. THE FOLLOWING ITEMS CAN BE CONSTRUCTED AT THE SAME TIME AS ANY OF THE CONSTRUCTION PHASES DISCUSSED BELOW:
   - SLUDGE STORAGE AND BLENDING TANKS.
   - SLUDGE DEWATERING BUILDING.
   - EFFLUENT FLOW EQUALIZATION TANK.
   - ODOR CONTROL SYSTEMS.
   - ALL MISCELLANEOUS CONSTRUCTION ITEMS.
3. ALL ACTIVITIES IN EACH PHASE MAY BE CONSTRUCTED SIMULTANEOUSLY EXCEPT THE CONSTRUCTION OF 16" Ø IRRIGATION TANK FEED DESCRIBED IN PHASE I CONSTRUCTION ACTIVITIES.

SUGGESTED SEQUENCE OF CONSTRUCTION

PHASE 1 CONSTRUCTION ACTIVITIES:

CONSTRUCT 16-INCH Ø EFFLUENT IRRIGATION TANK FEED PIPE BEFORE CONSTRUCTING THE FOLLOWING ITEMS TO MAINTAIN THE SUPPLY OF EFFLUENT FOR IRRIGATION DURING THE ENTIRE PERIOD OF CONSTRUCTION. (MUST BE COMLETED BEFORE REMOVAL OF EXISTING 36" Ø EFFLUENT IRRIGATION FEED LINE WHICH PRESENTLY IS LOCATED ON OXIDATION REACTER SITE)

CONSTRUCT FERMENTATION TANKS, FIRST ANOXIC TANKS, SCREW LIFT STATION AND OXIDATION REACTORS COMPLETE AND READY FOR OPERATION.

INSTALL 48-INCH Ø FERMENTATION TANKS INFLUENT PIPE.

INSTALL 36-INCH Ø AND 48-INCH Ø SECOND ANOXIC TANKS INFLUENT PIPE.

CONSTRUCT PRIMARY CLARIFIERS AND SECOND ANOXIC TANKS FLOW DIVERSION STRUCTURE.

INSTALL TEMPORARY 30-INCH Ø PRIMARY CLARIFIER BY-PASS PIPE AND 36-INCH Ø SECOND ANOXIC TANKS BY-PASS PIPE.

INSTALL 16-INCH Ø AND 24-INCH Ø RAS PIPE FROM EXISTING FINAL CLARIFIER PUMP HOUSE TO FERMENTATION TANKS INFLUENT BOX.

RELOCATE THE EXISTING 6-INCH WAS LINE NEAR EXISTING RAS FLOW SPLITTER STRUCTURE.

PLACE THE ABOVE ITEMS INTO OPERATION BY DIVERTING THE FLOW FROM INFLUENT STRUCTURE THROUGH 30-INCH Ø BY-PASS, FLOW DIVERSION STRUCTURE AND 48-INCH Ø PIPE TO FERMENTATION TANKS, AND FROM OXIDATION REACTORS THROUGH 48-INCH Ø PIPE, FLOW DIVERSION STRUCTURE AND 36-INCH BY-PASS TO EXISTING FINAL CLARIFIERS TO MAINTAIN THE PLANT IN OPERATION.

PHASE 2 CONSTRUCTION ACTIVITIES:

TAKE EXISTING PRIMARY CLARIFIERS AND PUMPHOUSE OUT OF SERVICE. CONSTRUCT SECOND ANOXIC TANKS INFLUENT CULVERT AND PRIMARY CLARIFIER EFFLUENT CULVERT. CONVERT EXISTING AERATION AND AEROBIC DIGESTION TANKS TO SECOND ANOXIC TANKS AND REAERATION TANKS INCLUDING INSTALLATION OF NEW 18-INCH AIR HEADER FROM BLOWER BUILDING, COMPLETE AND READY FOR OPERATION.

MODIFY INFLUENT CHANNEL TO PRIMARY CLARIFIERS AND REPLACE EXISTING SLUDGE PUMPS IN PRIMARY CLARIFIER PUMPHOUSE.

INSTALL MECHANICAL BAR SCREENS, GRIT REMOVAL SYSTEM, PRIMARY SLUDGE THICKENERS AND THICKENED PRIMARY SLUDGE PUMPS, ETC. IN INFLUENT STRUCTURE, COMPLETE AND READY FOR OPERATION.

CONSTRUCT FINAL CLARIFIER NO. 7, 8 AND NO. 5 INCLUDING OPEN CHANNEL, FLOW SPLITTER BOX, SCUM EJECTOR STATIONS, 36-INCH Ø PIPE, AND SLUDGE PUMP HOUSE, COMPLETE AND READY FOR OPERATION.

CONSTRUCT NEW FINAL CLARIFIERS EFFLUENT CHANNEL, JUNCTION BOX, AND A TEMPORARY 36-INCH Ø INFLUENT TO EXISTING FILTERS.

CONNECT SECOND ANOXIC TANK AND PRIMARY CLARIFIER EFFLUENT CULVERTS TO FLOW DIVERSION STRUCTURE.

INSTALL 16-INCH Ø RAS PIPE AND 6-INCH Ø WAS PIPE FOR THE NEW SLUDGE PUMP-HOUSE.

PHASE 2 CONSTRUCTION ACTIVITIES (CONTINUED)

TAKE EXISTING FINAL CLARIFIERS OUT OF SERVICE.

PLACE THE ABOVE ITEMS INTO OPERATION BY DIVERTING THE FLOW THROUGH THE FOLLOWING SEQUENCE:

INFLUENT STRUCTURE → PRIMARY CLARIFIERS → FERMENTATION TANKS → FIRST ANOXIC TANKS → SCREW PUMPS → OXIDATION REACTORS → SECOND ANOXIC TANKS → REAERATION TANKS → NEW FINAL CLARIFIERS NO. 7, 8 AND 5 → EXISTING EFFLUENT FILTERS → EXISTING EFFLUENT PUMP STATION → EAST PLANT OUTFALL

PHASE 3 CONSTRUCTION ACTIVITIES:

CONSTRUCT NEW EFFLUENT FILTERS, FILTER BUILDING EXPANSION AND EQUALIZATION PUMP STATION, COMPLETE AND READY FOR OPERATION.

INSTALL A 24-INCH Ø EQUALIZATION PUMP DISCHARGE CONNECTING TO EXISTING 30-INCH Ø EFFLUENT FORCE MAIN TO EAST PLANT.

CONSTRUCT IN-PLANT PUMP STATION NO. 1 INCLUDING 12-INCH Ø FILTER BACKWASH WATER LINE AND 12-INCH Ø PUMP DISCHARGE.

PUT NEW FILTERS INTO OPERATION, REMOVE EXISTING FILTERS FROM OPERATION AND AND USE EQUALIZATION PUMPS FOR TEMPORARY EFFLUENT PUMPING.

PHASE 4 CONSTRUCTION ACTIVITIES:

MODIFY EXISTING EFFLUENT FILTERS.

DEMOLISH EXISTING CHLORINE CONTACT TANK, CONSTRUCT NEW FINAL CLARIFIER NO. 6, AND MODIFY EXISTING FINAL CLARIFIER SLUDGE COLLECTION MECHANISMS AND PUMPHOUSE.

CONSTRUCT NEW 36-INCH Ø FINAL CLARIFIER EFFLUENT AND RECONNECT EXISTING 36-INCH Ø FINAL CLARIFIER EFFLUENT TO NEW JUNCTION BOX.

PUT EXISTING EFFLUENT PUMPS AND EXISTING FILTERS INTO OPERATION.

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LEGEND

- EXISTING
- PROPOSED STRUCTURES
- (1) PHASE 1 CONSTRUCTION ITEMS
- (2) PHASE 2 CONSTRUCTION ITEMS
- (3) PHASE 3 CONSTRUCTION ITEMS
- (4) PHASE 4 CONSTRUCTION ITEMS

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY | CHECKED |
|---|---|---|---|---|
| 2 | 8-29-91 | REVISED PER E.O. 21 & RECORD DRAWING | GLB | RBG |
| 1 | 5-30-89 | REVISED PER ADDENDUM #1 | SGO | KTB KRM |

DESIGNED YCL
DRAWN
CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:
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Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SUGGESTED SEQUENCE OF CONSTRUCTION
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1"=50'-0"
SHEET NO. 7 OF 166

PROJ. NO. 87054-2
FILE NO. 12980

92016

95'-4"ϕ PVC PIPE W/SOCK @ 0.10% GR. SEE DITCH EXFILTRATION SYSTEM

ASPH. PAVT.

POND BOTTOM EL. 53.50

POND NO. 3

POND TOP EL. 54.50

CONC. FLUME TOP EL. 55.75

INV. EL. 51.38

29" x 18" CMP

INV. EL. 51.20

ASPH. PAV'T.

GUARDRAIL

INV. EL. 51.12

FLARED END SECTION EL. 52.45

38"X24" RCP

30"X19" RCP

OVERFLOW STRUCTURE - BUILD AROUND EXIST. PIPE - SEE SHT. 8B INV. EL. 51.20

CONC. FLUME TOP EL. 55.00

30'-4"ϕ PVC PIPE W/SOCK @ 0.10% GR. SEE DITCH EXFILTRATION SYSTEM

OXIDATION REACTORS

FIRST ANOXIC TANKS

FERMENTATION TANKS

N

NATURAL GRADE

VARIES | 10' LEVEE | 3.75' | 18' | VARIES | 24' | EDGE OF PAV'T.

EL. 53.00 | EL. 53.50 | POND BOTTOM EL. 51.75 | SOD | EL. 53.00 | SOD | EL. 53.50 | SLOPE | EL. 54.00

SECTION M 8A|8A
N.T.S.

CONC. FLUME TOP EL. 53.25

CONC. FLUME

ASPH. PAVT.

0.50% GR.

1.00% CROSS-SLOPE 0.50% GR.

CONC. FLUME

100' 6"ϕ PVC PIPE WITH SOCK AT 0.10% GRADE

POND BOTTOM EL. 51.75

LIMITS OF WATER BARRIER LINER

INV. EL. 49.25

POND NO. 1

OVERFLOW STRUCTURE SEE DETAIL THIS SHT.

EMERGENCY WEIR EL. 53.00

LIMITS OF GEOMATRIX MATERIAL

NOTE: SEE TYPICAL SECTION SHT. 8B FOR GEOMATRIX MATERIAL REQUIRED.

20'-0"

EL. 52.75 | EL. 51.37 | EL. 51.45 | EL. 52.25 | EL. 52.75

## PLAN-OVERFLOW STRUCTURE & CHANNEL

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

2' FLAT BOTTOM DITCH @ 0.20%

SAVE PINE TREES

FENCE

6"ϕ PVC PIPE 350' @ 0.10 %

6"ϕ PVC CHECK VALVE INV. EL. 48.90

DITCH

CONC. SLOPE PROTECTION

## PLAN

SCALE: 1"= 30'

6" | 4'-6" | 6"

#4 @ 8" E.W.

## SECTION A-A

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

#4 @ 8" E.W.

## SECTION B-B

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

NATURAL GRADE

8.5' | 2' | 11' | 4.5' | 4.5' | 2' | 4.5' | 20'

EL. 51.12 | EL. 55.50 | EL. 55.00 | POND BOTTOM EL. 53.50 | EL. 55.00 | SOD (TYP.) | ROAD SLOPE

29" X 18" CMP INV. EL. 51.12

OVERFLOW STRUCTURE

THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

## SECTION E 8A|8A

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

VARIES | 2' DITCH | 15.8' | 4' | 24' | VARIES (4'-38') | 6' | VARIES (10'-48') | 12' | 30'

EL. 52.00 | ROAD | EL. 57.00 | SOD | POND BOTTOM EL. 55.00 | SOD | EL. 59.00 | WALL OF TANK

24" DIA. RCP

OVERFLOW STRUCTURE

## SECTION C 8C|8A

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

10' | 3.75' | 20' | 3.75' | VARIES | EDGE OF PAV'T.

NATURAL GRADE | EL. 53.50 | EL. 53.00 | POND BOTTOM EL. 51.75 | SOD | SOD | 1.00% | ROAD SLOPE | EL. 53.00

OVERFLOW STRUCTURE

## SECTION D 8A|8A

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

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 4-16-92 | RECORD DRAWING | DMP |
| 1 | 5-31-89 | REVISED AS PER ADDENDUM NO. 1 | BVB |

DESIGNED RCB | DRAWN RRW | CHECKED RCB

ENGINEER OF RECORD:

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Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
RETENTION PONDS NO. 1&3
CLEARWATER, FLORIDA

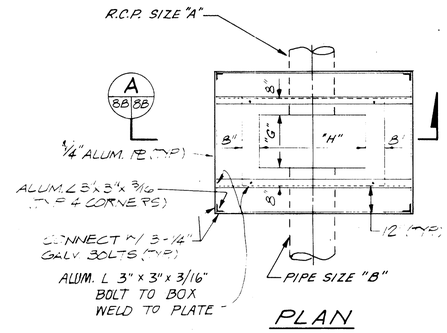
DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 8A OF 166

PROJ. NO. 87054-2 | FILE NO. 12981 - A

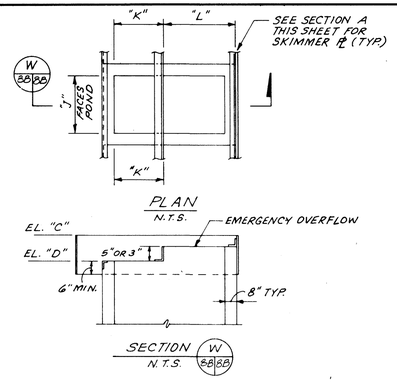
92016

2/6/89

377058



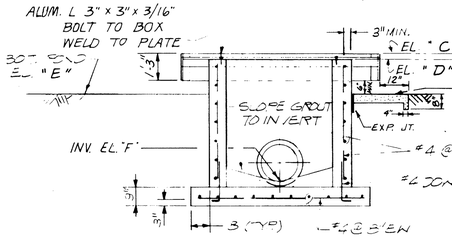

PLAN




PLAN
N.T.S.

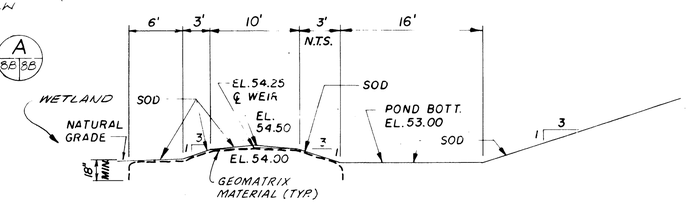



SECTION W 8B/8B
N.T.S.

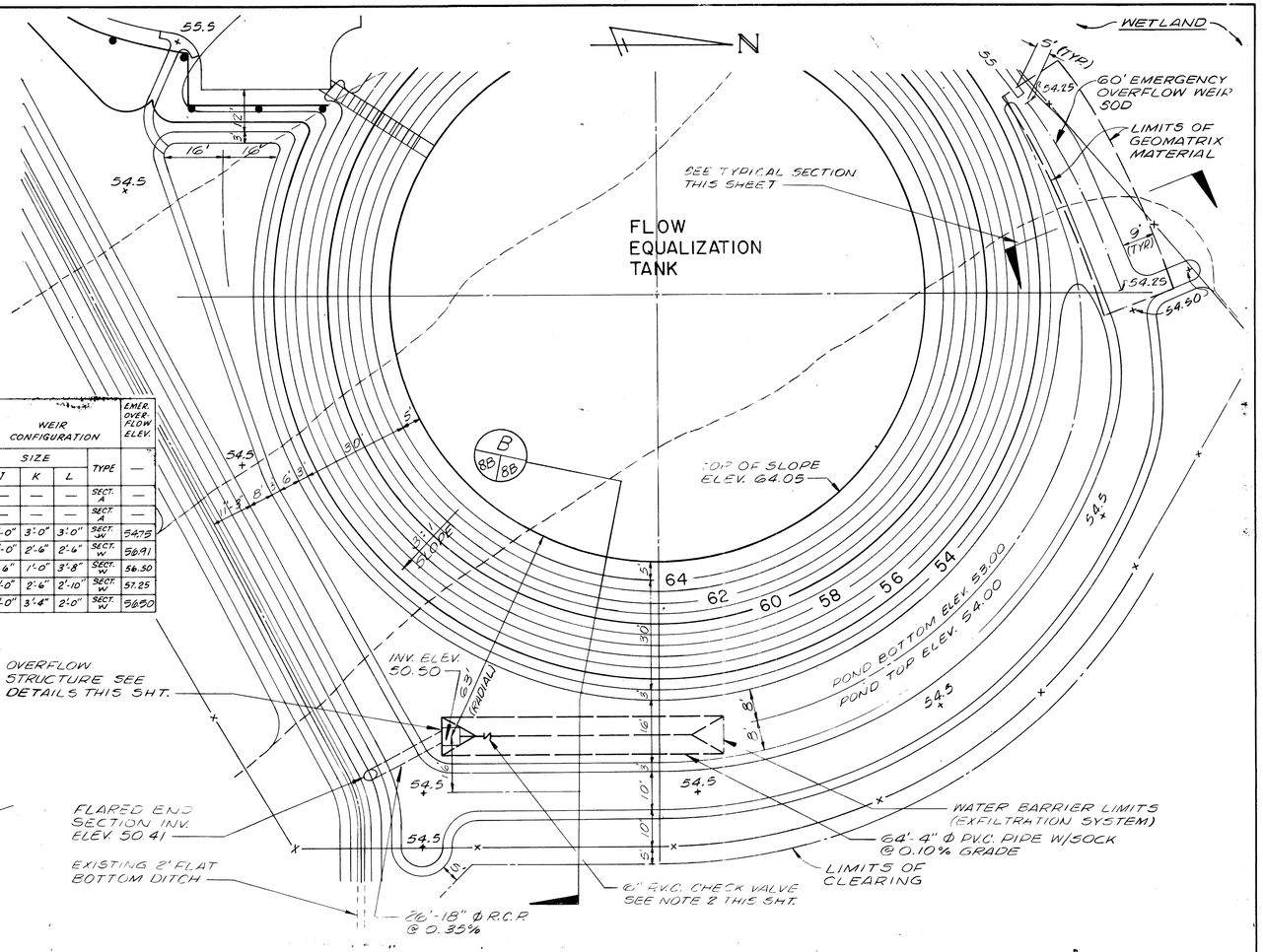



SECTION A 8B/8B

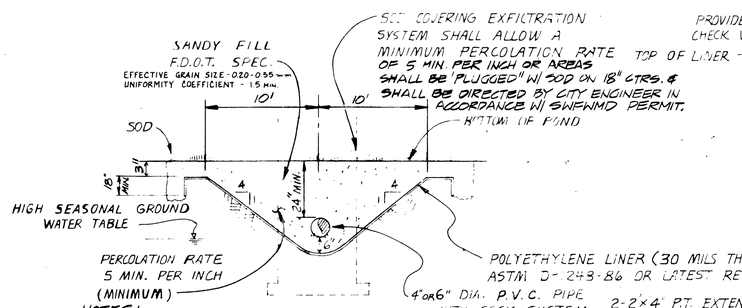
| DIMENSION TABLE | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STRUCTURE | | | | | | | STRUCTURE DIMENSION | | WEIR CONFIGURATION | | | | EMER. OVER-FLOW ELEV. |
| POND# | IN A. DIA. | OUT B. DIA. | C ELEV. | D ELEV. | E ELEV. | F INV. | G | H | SIZE J | SIZE K | SIZE L | TYPE | |
| 1 | 0 | 21"Ø | 53.50 | 52.75 | 51.75 | SEE DWG. | 2'-0" | 3'-0" | — | — | — | SECT. A | — |
| 2 | 0 | 18"Ø | 54.75 | 54.00 | 53.00 | " | 1'-6" | 2'-0" | — | — | — | SECT. A | — |
| 3 | 29"x 18"Ø CMP | 29"x 18"Ø CMP | 55.25 | 54.50 | 53.50 | " | — | — | 4'-0" | 3'-0" | 3'-0" | SECT. W | 5475 |
| 4 | 0 | 24"Ø | 57.25 | 56.50 | 55.25 | " | — | — | 4'-0" | 2'-6" | 2'-6" | SECT. W | 5891 |
| 5 | 30"Ø | 30"Ø | 56.80 | 56.30 | 54.84 | " | — | — | 1'-6" | 1'-0" | 3'-8" | SECT. W | 56.50 |
| 6 | 24"Ø | 30"Ø | 57.50 | 57.00 | 55.75 | " | — | — | 2'-0" | 2'-6" | 2'-10" | SECT. W | 57.25 |
| 7 | 24"Ø | 24"Ø | 56.75 | 56.25 | 55.00 | " | — | — | 2'-0" | 3'-8" | 2'-0" | SECT. W | 5850 |




TYPICAL SECTION
RETENTION POND No. 2
SCALE: 1/8"=1'-0"

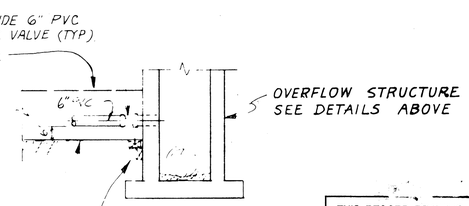



OVERFLOW STRUCTURE
NOT TO SCALE




NOTES:
1. 4" OR 6" Ø PVC. UNDERDRAINS FOR RETENTION PONDS SHALL BE IN ACCORDANCE WITH AASHTO M-189 DESCRIBED IN FDOT. SECTION 948-4-5, ASTM 3033 WITH SOCK TYPE FILTER FABRIC ENCASEMENT, MIRAFI #140N OR EQUAL.
2. DRAINAGE CHECK VALVES SHALL BE 4" OR 6" PVC SWING CHECK VALVES (AS R8010) W/ MECH. JOINT FITTING AS MANUF. BY PLASTIC PIPING SYSTEMS INC.-ORLANDO, FLA.

EXFILTRATION SYSTEM DETAILS
NOT TO SCALE




TYPICAL SECTION AT OVERFLOW STRUCTURE

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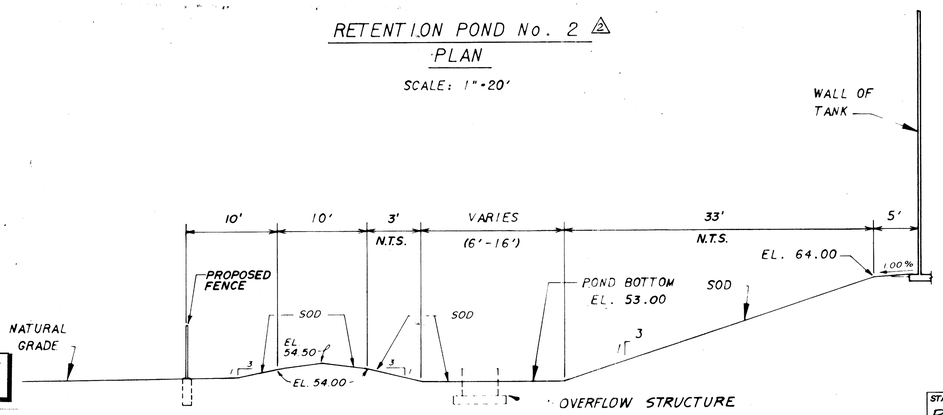
RETENTION POND No. 2 (2)
PLAN
SCALE: 1"=20'




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

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | PRELIMINARY FOR ENGINEERING |
| B | PRELIMINARY FOR BIDDING |
| O | PRELIMINARY FOR OWNER |
| R | PRELIMINARY FOR REVIEW |
| H | PRELIMINARY FOR HEARING |
| A | APPROVED |
| C | CONSTRUCTION |
| | — |
| | — |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 3 | 7-24-91 | RECORD DRAWING | GLB |
| 2 | 8-1-89 | REVISED AS PER E.O. # 3 | KTB |
| 1 | 7-11-89 | RELOCATED FLOW EQUALIZATION TANK | RCB |

DESIGNED RCB · DRAWN RRW · CHECKED RCB

ENGINEER OF RECORD:

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**RETENTION POND NO. 2**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 8B OF 166
PROJ. NO. 87054-2
FILE NO. 12981-B

92016

3110159 3/1/89

AEROBIC DIGESTION TANKS

FINAL CLARIFIER

FINAL CLARIFIER

PRIMARY DIGESTER

SWALE

SEPTAGE HANDLING STRUCTURE

SLUDGE TRANSF. STATION

POND NO. 4

POND BOTTOM AT EL. 55.25

POND TOP AT EL. 56.50

5' R.

CONC. FLUME TOP EL. 57.20

LIMITS OF LINER SEE SECTION 'F' & 'G' SHT. 8D

OVERFLOW STRUCTURE EL. 56.50. INV. EL. 52.36 SEE SHT. 8B

54' (TYP) N.T.S.

50'- 6" ϕ PVC PIPE WITH SOCK AT 0.10% GR. SEE SHT. 8B EXFILTRATION SYSTEM.

6" PVC CK. VALVE. INV. EL. 52.75 SEE NOTE 2 THIS SHT.

CONC FLUME TOP EL. 57.13

NOTE: INVERTED CROWN BEGINS HERE

24" ϕ RCP 52' LONG

ASPHALT PAVING

SWALE (TYP.)

GUARDRAIL

RE-SHAPE EXIST. 2' FLAT BOTTOM DRAINAGE DITCH @ 0.25%

24' X 30" RCP @ 0.25%

FLARED END SECTION INV. 51.98

FLARED END SECTION INV. 52.00

10' MIN.

FENCE

2' X 6' OVERFLOW EL. 56.30 INV. EL. 52.05

50'- 6" ϕ PVC PIPE W/SOCK AT 10% GR. - SEE DITCH EXFILTRATION SYSTEM.

JUNCTION BOX TOP EL. 52.70 INV. EL. 57.00

18'- 24" ϕ RCP @ 0.25%

2' X 6' OVERFLOW EL. 56.25 INV. EL. 52.68

174'- 24" ϕ RCP @ 0.25%

SEE GRADING PLAN, SHT 8 FOR SPOT EL'S

CONC. FLUME TOP EL. 57.20

4" PVC CK. VALVE INV. EL. 52.68 SEE NOTE 2 THIS SHT.

80'- 4" ϕ PVC PIPE W/SOCK AT 0.10% GR. - SEE DITCH EXFILTRATION SYSTEM (NOTE: BOTTOM OF EXFILTRATION TRENCH TO BE 3 FT. WIDE)

POND NO. 7

LIMITS OF LINER SEE SECTION 'K' SHT. 8D

SWALE

"V" SHAPED DITCH @ 1.39%

BEGIN DITCH SLOPE

EL. 56.25

CONC. FLUME TOP EL. 56.45

ASPH. PAVT.

CONCRETE FLUME EL. 57.20

CONC. FLUME TOP EL. 57.20

2' X 6' OVERFLOW EL. 57.00 INV. EL. 52.26

86'- 30" RCP @ 0.25%

GEN ENCLOSURE

FUEL TANK

68'- 6" ϕ PVC PIPE W/SOCK AT 0.10% GR - SEE DITCH EXFILTRATION SYSTEM

6" PVC CHECK VALVE. INV. EL. 53.00. SEE NOTE 2 THIS SHT.

INV. EL. 55.75

12'- 12" ϕ RCP WITH SLOPED HEADWALLS

FLAT BOTTOM

INVERTED CROWN

24.5' N.T.S.

POND NO. 5

SLUDGE DEWATERING BUILDING

SLUDGE STORAGE & BLENDING TANKS

DITCH @ 1.1%

LIMITS OF LINER SEE SECTION 'H' & 'L' SHT. 8D

POND NO. 6

LIMITS OF LINER SEE SECTION 'J' SHT. 8D

"V" SHAPED DITCH @ 0.40%

5' BERM

24.7' N.T.S.

ASPH. PAVT.

PLAN

SCALE: 1" = 20'

SOD COVERING EXFILTRATION SYSTEM SHALL ALLOW A MINIMUM PERCOLATION RATE OF 5 MIN PER INCH OR AREAS SHALL BE "PLUGGED" WITH SOD ON 18" CTRS & SHALL BE DIRECTED BY THE CITY ENGINEER IN ACCORDANCE WITH SOUTHWEST FLA. WATER MANAGEMENT DISTRICT PERMIT.

LIMITS OF SOD — TOP OF BANK — EXFILTRATION SYSTEM — TOP OF BANK — LIMITS OF SOD

2' — VARIES — 2' — VARIES — 2'

SOD — SOD

SANDY FILL MATERIAL (F.D.O.T) EFFECTIVE GRAIN SIZE - 0.20 - 0.55 mm UNIFORMITY COEFFICIENT - 1.5 MIN

NATURAL SANDY FILL MATERIAL

NOTE: EXTEND POLYETHYLENE LINER FOR PONDS 4, 5, 6 & 7 (SEE CROSS SECTIONS SHT. 8D

18" FTG.

4' ϕ PVC PIPE W/SOCK SEE NOTE SHEET 10

HIGH SEASONAL GROUND WATER TABLE

PERCOLATION RATE 5 MIN. PER INCH (MIN.)

POLYETHYLENE LINER (30 MILS TK MIN) ASTM-D-1248 86 OR LATEST REVISION

DITCH EXFILTRATION SYSTEM

NOT TO SCALE

NOTES

1. 4" OR 6" ϕ PVC UNDERDRAINS FOR RETENTION PONDS SHALL BE IN ACCORDANCE WITH AASHTO M-189 DESCRIBED IN FDOT SECTION 948-2-3. ASTM 3033 WITH SOCK TYPE FILTER FABRIC ENCASEMENT MIRAFI 140N OR EQUAL.
2. DRAINAGE CHECK VALVES SHALL BE 4" OR 6" ϕ PVC SWING CHECK VALVES (AS REQ'D.) W/ MECH. JOINT FITTING AS MANUF. BY PLASTIC PIPING SYSTEMS INC. - ORLANDO, FLA.

NOTE:

SEE SHT. 8B FOR OVERFLOW DIMENSION & ELEVATION INFORMATION.

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | FOR PRELIM. W. NAMES |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED - DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY | CHECKED |
|---|---|---|---|---|
| 3 | 7-24-91 | REVISED PER E.O.# 21 & RECORD DRAWING | GLB | RCB |
| 2 | 8-2-89 | REVISED AS PER E.O. #3 | SGO | RRW |
| 1 | 7-1-89 | ADD DEWATERING DRAINS | KTB | RCB |

DESIGNED RCB — DRAWN RRW — CHECKED RCB

ENGINEER OF RECORD

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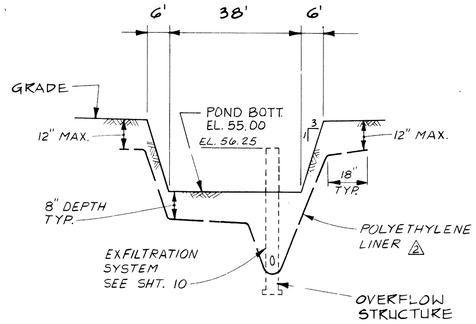
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**RETENTION PONDS NO. 4,5,6 & 7**
CLEARWATER, FLORIDA

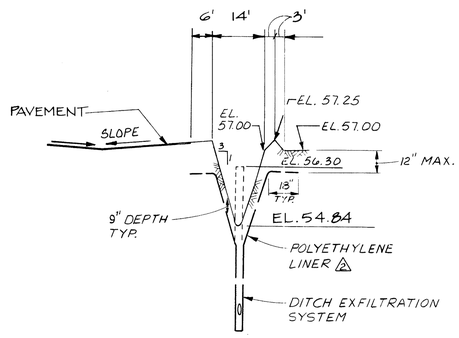
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 8C OF 166

PROJ. NO. 87054-2
FILE NO. 12981-C

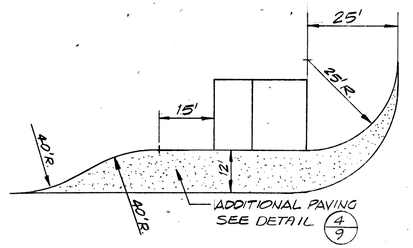
92016




SECTION F 8C|8D

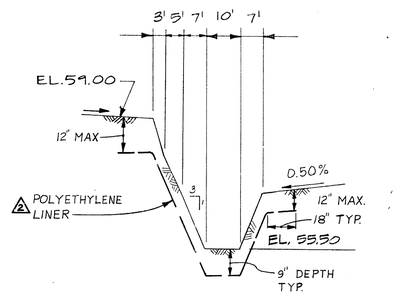



SECTION J 8C|8D

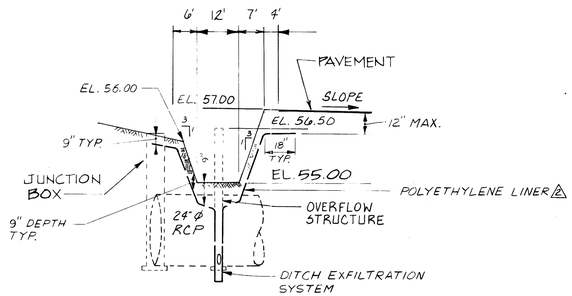



△2 LAYOUT & PAVING PLAN AT PROP. SLUDGE DEWATERING GENERATOR ENCLOSURE

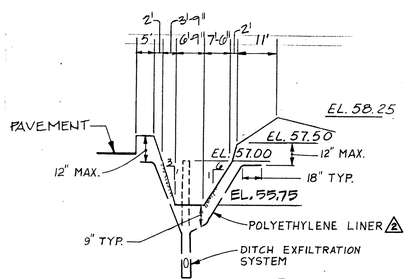
SCALE: 1"=20'



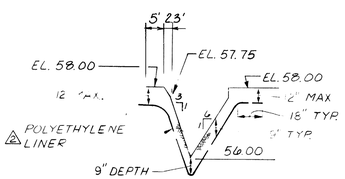

SECTION G TYPICAL 8C|8D △1




SECTION K 8C|8D

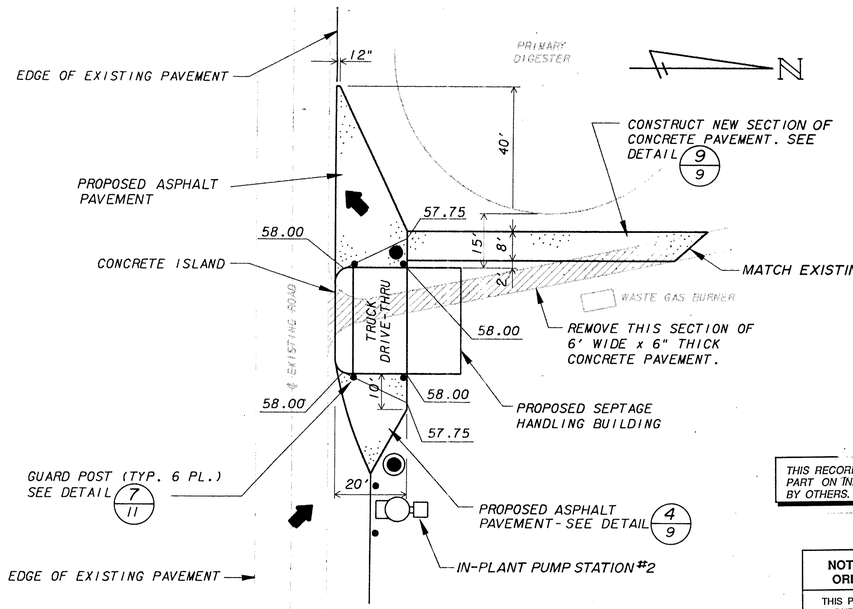



SECTION H 8C|8D △1




SECTION L 8C|8D

NOTE:
POLYETHYLENE LINER ATTACHMENT DETAIL TO OVERFLOW STRUCTURE SEE SHT. 8B




SEPTAGE HANDLING PAVING PLAN △2

SCALE: 1" = 20'

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | |
| E | |
| B | |
| D | |
| R | |
| H | |
| A | |
| C | |
| | |
| | |
| RD | |

**RECORD DRAWING**

| REV. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| △2 | 7-24-91 | GLB | REVISED PER E.O. # 21,23 & RECORD DRAWING |
| △2 | 8-28-89 | RAP | REVISED AS PER E.O. #3 |
| △1 | 5-30-89 | BVB | REVISED AS PER ADDENDUM NO 1 |

DES. SUP. RCB
DRAWN KTB
CHECKED JRS

ENGINEER OF RECORD

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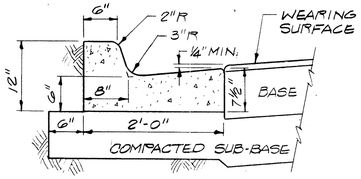
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**POND CROSS SECTIONS & SEPTAGE HANDLING SYSTEM**
CLEARWATER, FLORIDA

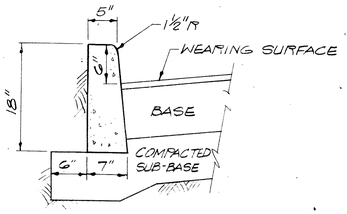
DATE: OCT. 1988
SCALE: 1"=20' HOR. 1"=2' VERT.
JOB NO. 87054-2
SHEET NO. 8D OF 166
DRAWING NO. 12981-D

92016

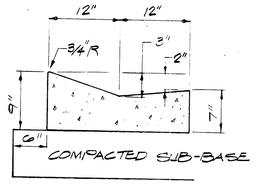



NOTE:
WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON THE PLANS.

## STANDARD CONC. CURB & GUTTER — 1/9

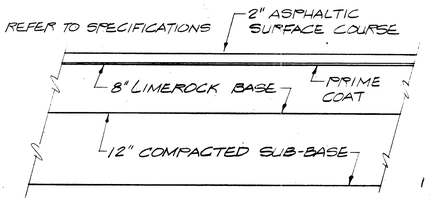



## CONC. STRAIGHT CURB — 2/9

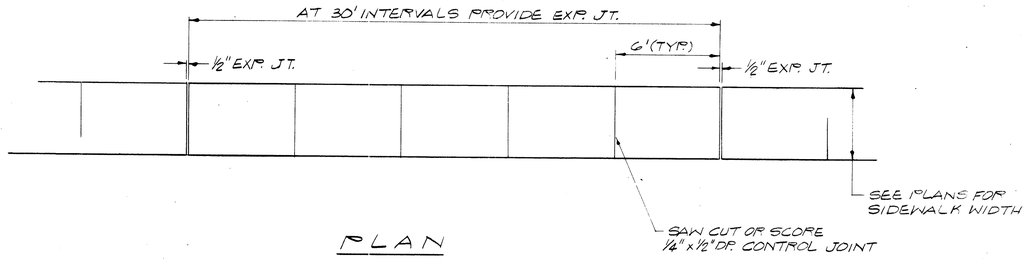



## CONC. VALLEY GUTTER CURB — 3/9

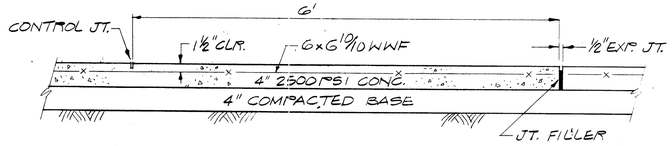
NOTE: REFER TO SPECIFICATIONS




## TYPICAL PAVEMENT DETAIL — 4/9

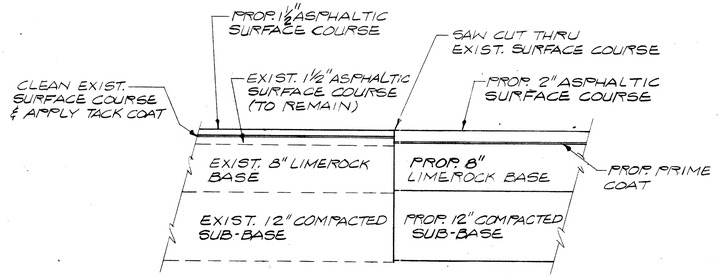



PLAN



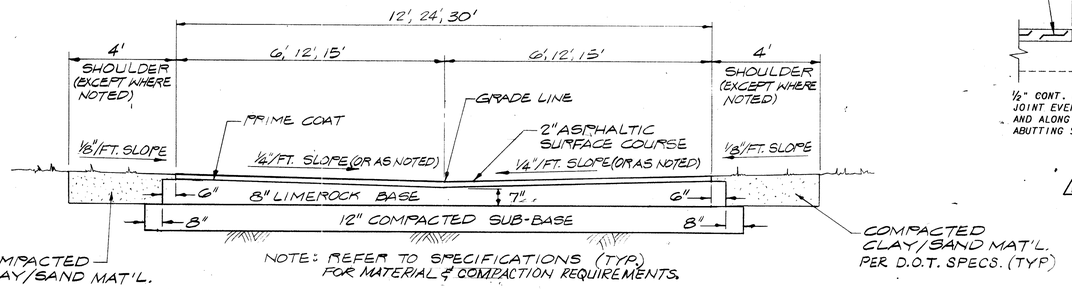

## SIDEWALK SECTION

## TYPICAL SIDEWALK DETAILS — 5/9




NOTE: REFER TO SPECIFICATIONS FOR MATERIAL & COMPACTION REQUIREMENTS

## PAVEMENT MATCHING DETAIL — 6/9




NOTE: REFER TO SPECIFICATIONS (TYP.) FOR MATERIAL & COMPACTION REQUIREMENTS.

## TYPICAL INVERTED CROWN ROADWAY SECTION — 7/9

(PAVEMENT DIMENSIONS SHOWN IN RESPECTIVE ORDER)



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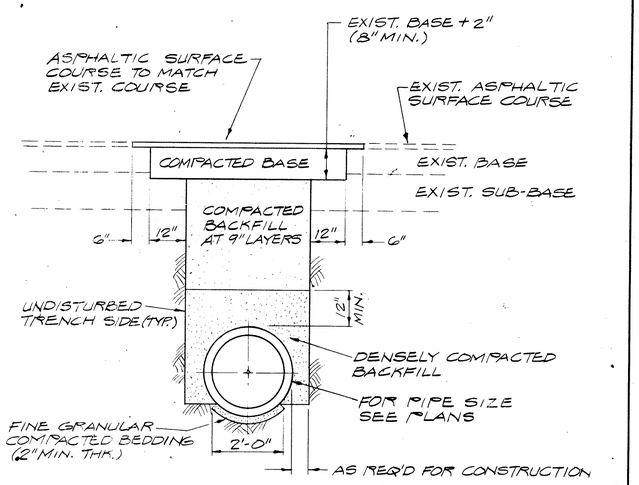
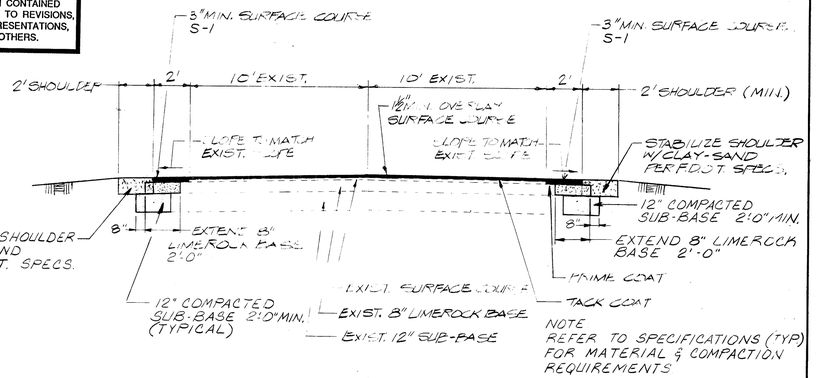


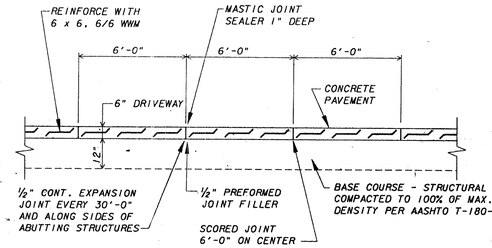

## PIPE INSTALLATION & PAV'MT CUT & PATCH — 8/9




NOTE
REFER TO SPECIFICATIONS (TYP) FOR MATERIAL & COMPACTION REQUIREMENTS

## ROAD WIDENING DETAIL — 10/9

NOT TO SCALE




## ⚠ CONCRETE PAVEMENT DETAIL — 9/9

SCALE: NONE

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3-10-92 | ADDED DETAIL PER E.O. #23 & RECORD DRAWING | RAP |

DESIGNED RCB
DRAWN ES KRM
CHECKED SRS

ENGINEER OF RECORD:

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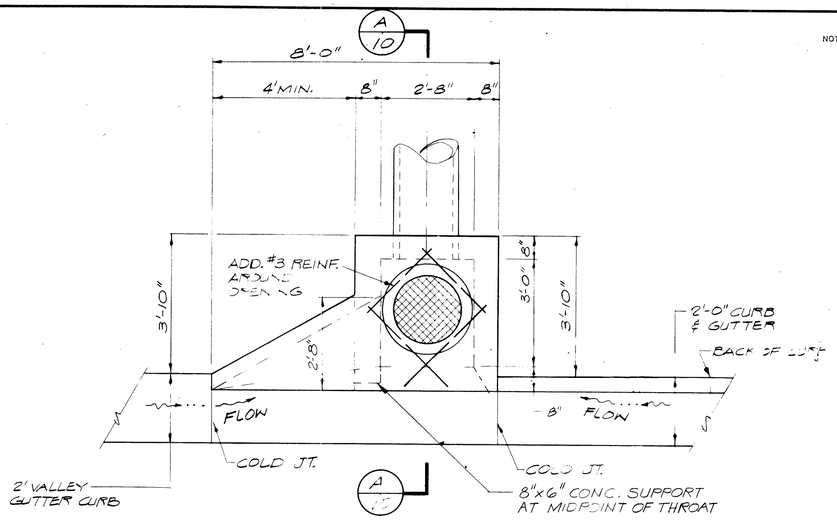
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**PAVING DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 9 OF 166
PROJ. NO. 87054-2
FILE NO. 12982

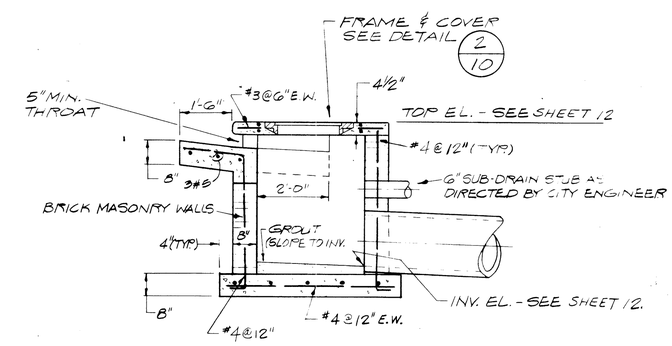
92016




A/10

A/10

## PLAN




## SECTION

1/10

## SINGLE WING DRAINAGE INLET

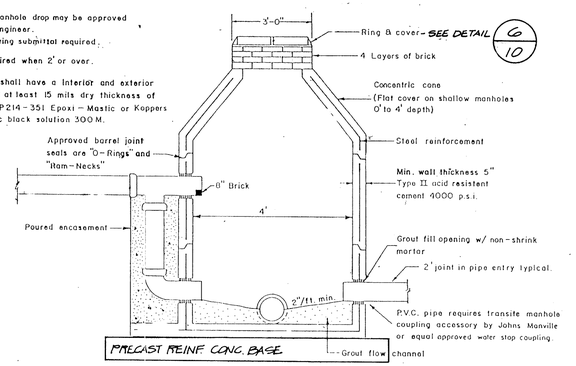
1/10

PER CITY OF CLEARWATER STANDARDS INDEX NO. 210
SCALE: ½"=1'-0"

NOTES:
Precast Manhole drop may be approved by City Engineer.
Shop drawing submittal required.

Drop required when 2' or over.

Manholes shall have a interior and exterior coating of at least 15 mils dry thickness of PROLO EP214-351 Epoxi-Mastic or Koppers bitumastic black solution 300 M.

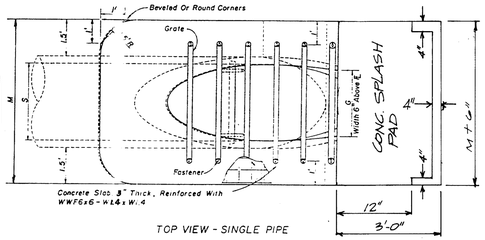



## SANITARY SEWER DROP MANHOLE

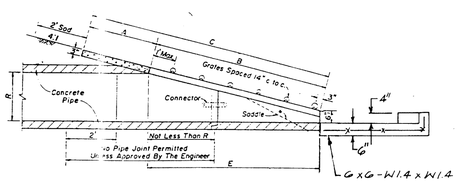
2/10

USE: CITY OF CLEARWATER STANDARDS INDEX NO. 302
(FOR STANDARD DIMENSIONS OF MANHOLE "BASE" SECTION)

| ARCH CONC. PIPE | | | | | | | | | DIMENSIONS & QUANTITIES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rise R | Span S | X | A | B | C | E | F | G | M Single Pipe | M Double Pipe | M Triple Pipe | M Quad. Pipe | N | GRATE SIZES Standard Weight Pipe | GRATE SIZES Extra Strong Pipe | CONCRETE (Cu. Yds.) Single Pipe | CONCRETE (Cu. Yds.) Double Pipe | CONCRETE (Cu. Yds.) Triple Pipe | CONCRETE (Cu. Yds.) Quad. Pipe | SODDING (Sq. Yds.) Single Pipe | SODDING (Sq. Yds.) Double Pipe | SODDING (Sq. Yds.) Triple Pipe | SODDING (Sq. Yds.) Quad. Pipe |
| 13" | 18" | 1'-0" | 2.36' | 3.08' | 2.42' | 3.03' | 5" | 1.50' | 4.92' | 7.75' | 10.58' | 13.42' | .121' | | | 0.30 | 0.45 | 0.61 | 0.76 | 9 | 11 | 12 | 14 |
| 19" | 23" | 1'-0" | 2.64' | 3.73' | 2.70' | 3.70' | 6" | 1.90' | 5.38' | 8.74' | 12.06' | 15.38' | .123' | | | 0.36 | 0.56 | 0.76 | 0.95 | 9 | 12 | 14 | 16 |
| 19" | 30" | 1'-0" | 2.64' | 4.42' | 2.70' | 4.39' | 6" | 1.90' | 6.04' | 10.04' | 14.04' | 18.04' | .123' | | | 0.51 | 0.79 | 1.08 | 1.36 | 11 | 15 | 18 | 21 |
| 24" | 30" | 1'-0" | 2.89' | 4.42' | 2.95' | 4.39' | 6" | 2.65' | 6.79' | 11.17' | 16.79' | 21.79' | 1.33' | | | 0.68 | 1.10 | 1.53 | 1.96 | 12 | 17 | 21 | 25 |
| 24" | 36" | 1'-0" | 2.89' | 5.03' | 2.95' | 5.00' | 6" | 2.65' | 7.50' | 13.46' | 19.33' | 25.25' | 1.58' | | | 0.86 | 1.45 | 2.04 | 2.63 | 13 | 19 | 25 | 30 |
| 24" | 43" | 1'-0" | 2.89' | 5.82' | 2.95' | 5.80' | 6" | 2.65' | 8.33' | 15.87' | 23.33' | 29.87' | 1.83' | | | 1.05 | 1.81 | 2.60 | 3.39 | 15 | 23 | 30 | 38 |
| 28" | 60" | 1'-0" | 3.39' | 11.59' | 13.26' | 11.70' | 15" | 3.25' | 8.92' | 16.12' | 24.38' | 32.42' | 1.46' | 3" | 4" | 1.18 | 2.14 | 3.10 | 4.05 | 16 | 27 | 38 | 49 |
| 34" | 64" | 1'-0" | 3.56' | 12.11' | 13.76' | 12.26' | 15" | 3.25' | 9.67' | 18.08' | 27.50' | 36.92' | 1.65' | 4" | 4" | 1.38 | 2.56 | 3.79 | 4.99 | 18 | 31 | 44 | 57 |
| 38" | 76" | 1'-0" | 3.73' | 13.43' | 15.05' | 13.03' | 15" | 4.35' | 10.42' | 20.33' | 30.25' | 40.17' | 1.84' | Special | Special | 1.59 | 3.05 | 4.51 | 5.97 | 18 | 35 | 52 | 68 |
| 53" | 91" | 1'-6" | 3.91' | 17.15' | 21.06' | 16.70' | 20" | 4.75' | 11.08' | 21.75' | 32.42' | 43.08' | 1.58' | Special | Special | 1.80 | 3.50 | 5.19 | 6.88 | 20 | 39 | 59 | 77 |
| 58" | 91" | 1'-6" | 4.08' | 18.87' | 22.93' | 18.36' | 22" | 5.01' | 11.83' | 23.50' | 35.17' | 46.83' | 1.63' | Special | Special | 2.04 | 4.04 | 6.05 | 8.03 | 21 | 29 | 37 | 44 |



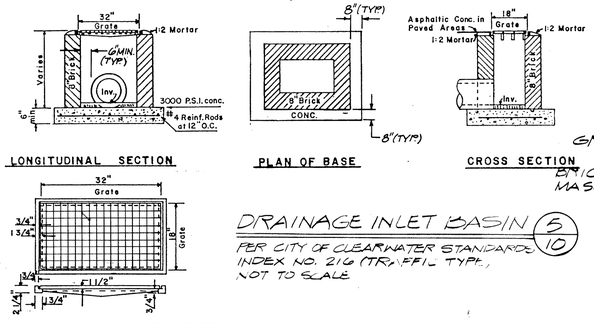

TOP VIEW - SINGLE PIPE




SECTION

## COLLAR INSPECTION

4/10

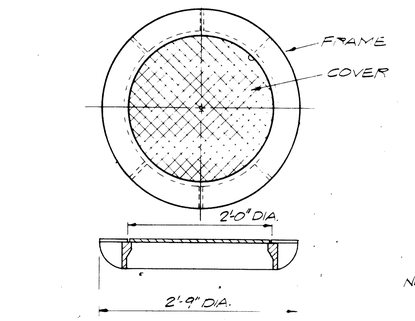


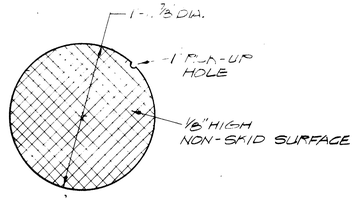

## DRAINAGE INLET BASIN

5/10

PER CITY OF CLEARWATER STANDARDS INDEX NO. 216 (TRAFFIC TYPE)
NOT TO SCALE

PLAN & SECTION OF FRAME & GRATE



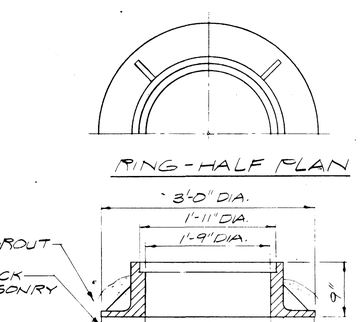

COVER DETAIL

NOTE: FRAME & COVER AS MFG. BY U.S. FOUNDRY NO. 1255 OR EQUAL. NON-TRAFFIC TYPE

## C.I. STORM SEWER FRAME & COVER DETAILS

2/10

PER CITY OF CLEARWATER STANDARDS INDEX NO. 203
SCALE: 1"=1'-0"



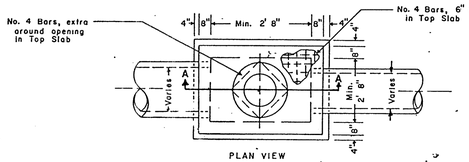


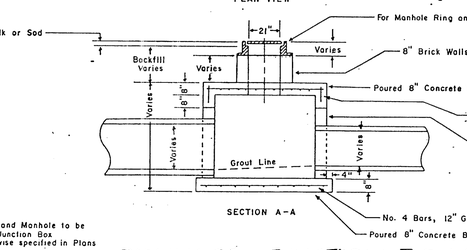


NOTE: FRAME & COVER PER CITY OF CLEARWATER STANDARDS INDEX NO. 203, HEAVY DUTY TRAFFIC TYPE.

6/10 C.I. SANITARY SEWER MANHOLE FRAME & COVER DETAILS

NOT TO SCALE



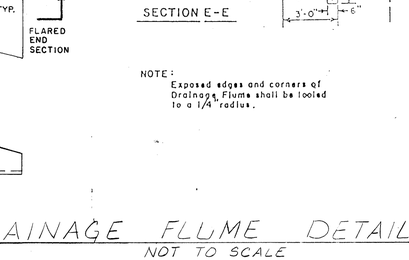



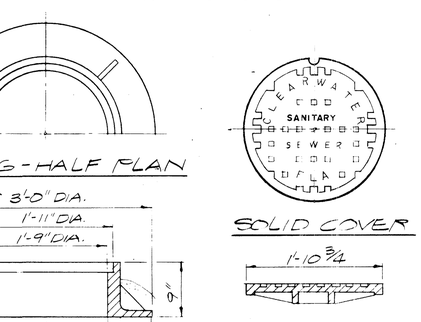

NOTES:
1. Storm Sewers and Manhole to be centered in Junction Box unless otherwise specified in Plans
2. All Concrete to be 2,500 P.S.I.
3. Chamfer all exposed Edges 3/4"

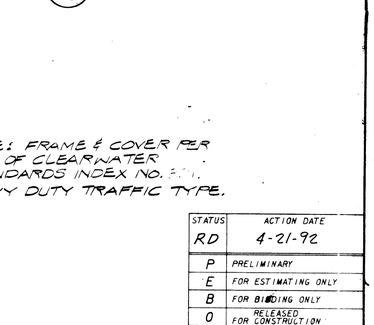
## DRAINAGE JUNCTION BOX (NON-TRAFFIC)

7/10

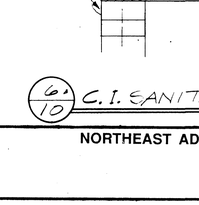
PER CITY OF CLEARWATER STANDARDS INDEX NO. 209




All Concrete to be 3000 p.s.i. @ 28 days




## DRAINAGE FLUME DETAIL

8/10

NOT TO SCALE

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED - DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |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**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3-16-11 | RECORD DRAWING | DMP |

DESIGNED RCB | DRAWN EG FRM | CHECKED SPR

SUBMITTED: BRILEY, WILD & ASSOCIATES

APPROVED:


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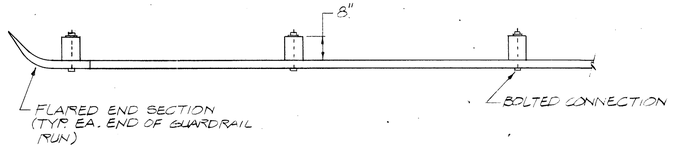
Ormond Beach - Clearwater - Bradenton, Florida


NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**DRAINAGE DETAILS**
CLEARWATER, FLORIDA

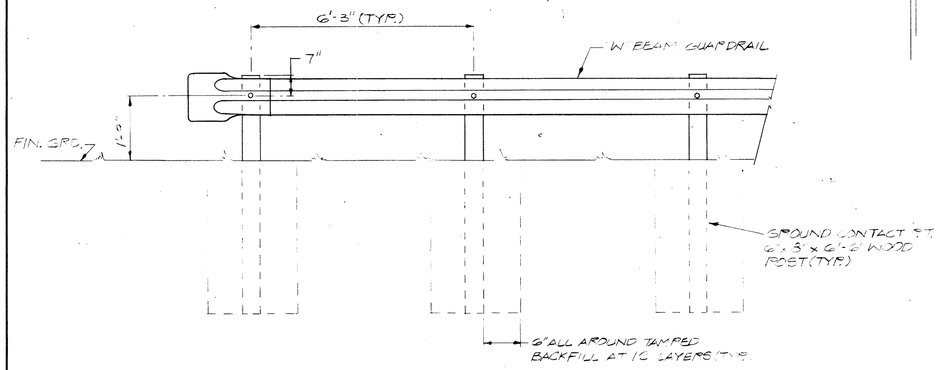
DATE: OCT. 1989 | PROJ. NO. 87054-2
SCALE: AS SHOWN | FILE NO. 12983
SHEET NO. 10 OF 166

92016



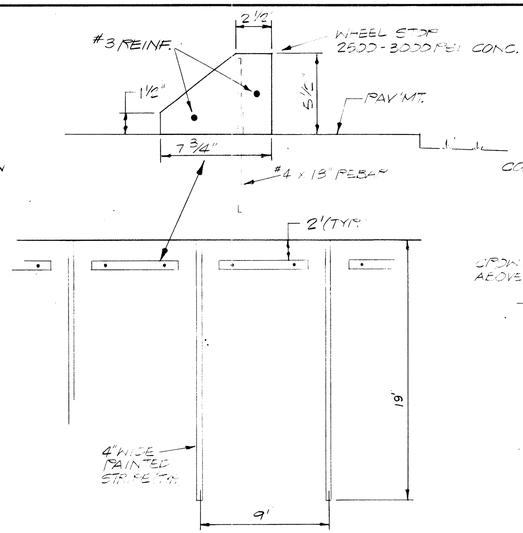

PLAN

NOTE:
GUARDRAIL, CONNECTIONS, POSTS, ETC. - REFER TO F.D.O.T. "ROADWAY AND TRAFFIC STANDARDS" EDITION JAN. 1987, INDEX NO. 400, FOR DETAILS

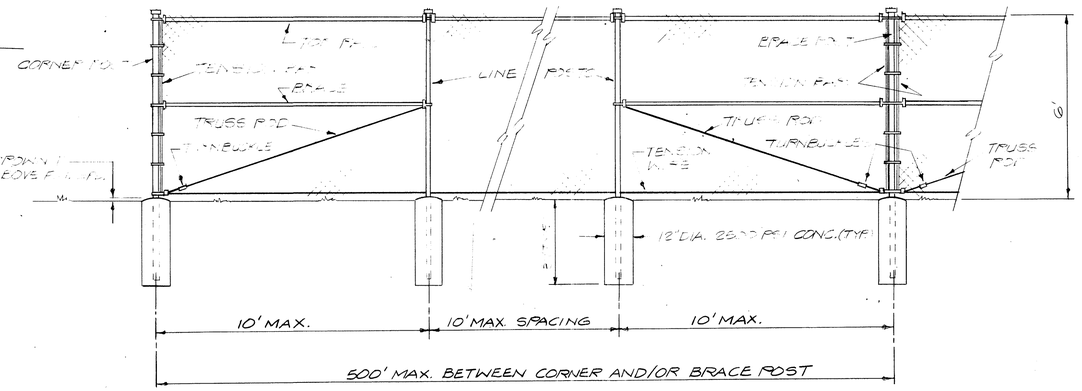



ELEVATION

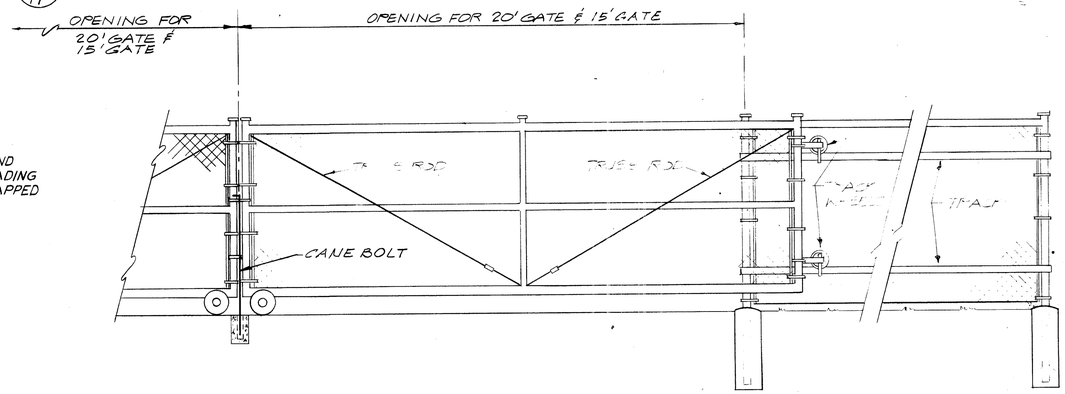
GUARDRAIL DETAIL 1/11



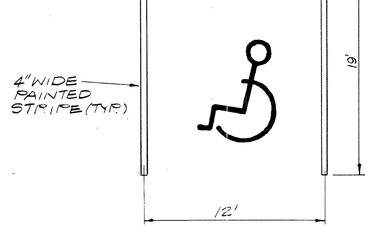

PLAN-TYP. PARKING SPACE 2/11



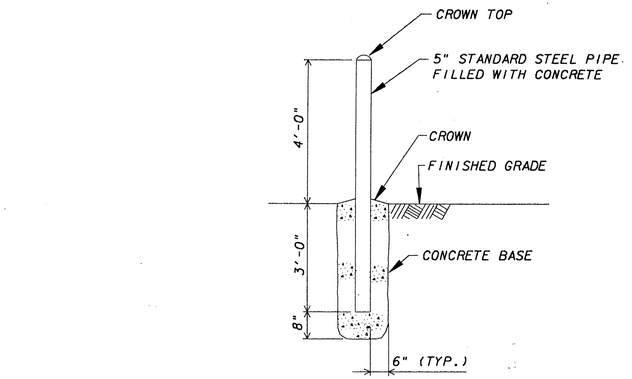

TYPICAL CHAIN LINK FENCE 4/11



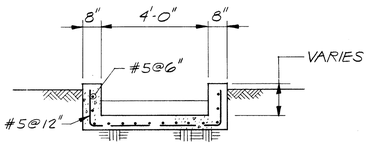

DOUBLE ROLLING GATE 5/11



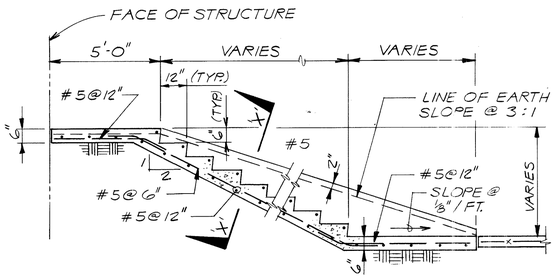

HANDICAP PARKING SPACE 3/11




⚠ GUARD POST DETAIL 7/11
SCALE: NONE




SECTION X-X




TYPICAL STAIR AT EARTH BERMS 6/11

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3-16-92 | ADDED DETAIL PER E.O. #23 & RECORD DRAWING | RAP |

DESIGNED RCB | DRAWN ES KRM | CHECKED SRS

ENGINEER OF RECORD:

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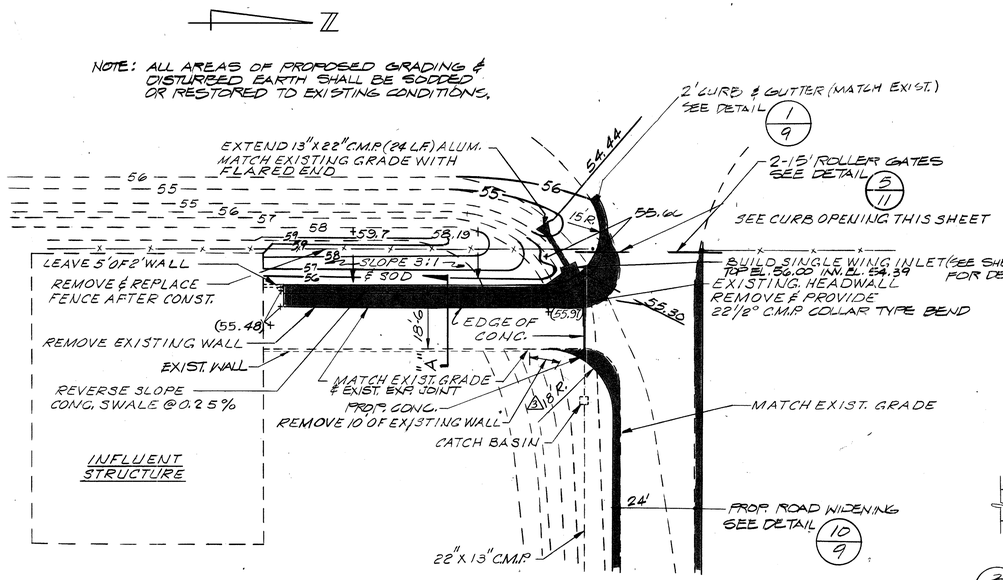
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
MISCELLANEOUS CIVIL DETAILS
CLEARWATER, FLORIDA

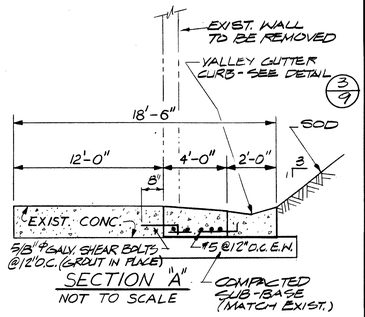
DATE: OCT. 1988 | SCALE: NONE | SHEET NO. 11 OF 166
PROJ. NO. 87054-2 | FILE NO. 12984

92016

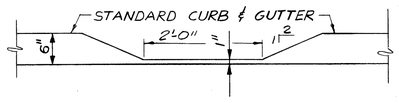
NOTE: ALL AREAS OF PROPOSED GRADING & DISTURBED EARTH SHALL BE SODDED OR RESTORED TO EXISTING CONDITIONS.



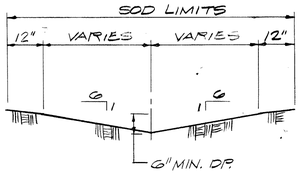

PLAN
SCALE: 1" = 20' (1/8/12)



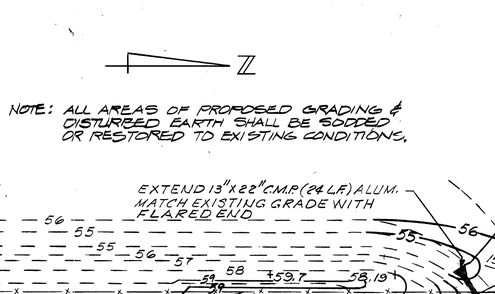

SECTION "A"
NOT TO SCALE



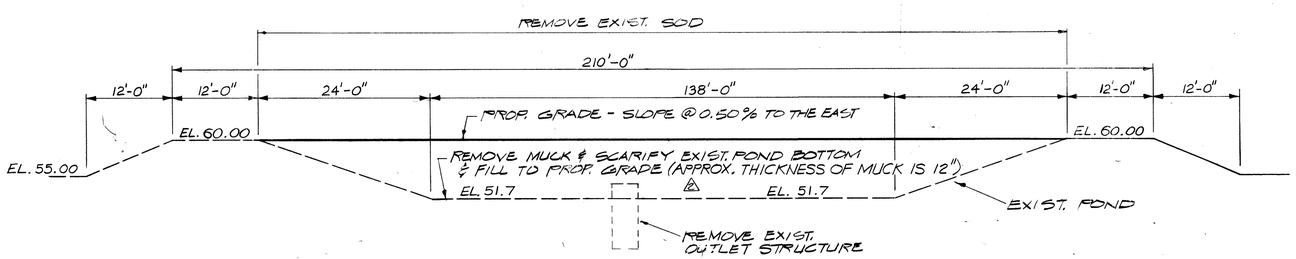

(3/12) CURB OPENING FOR ROLLER GATE
NOT TO SCALE



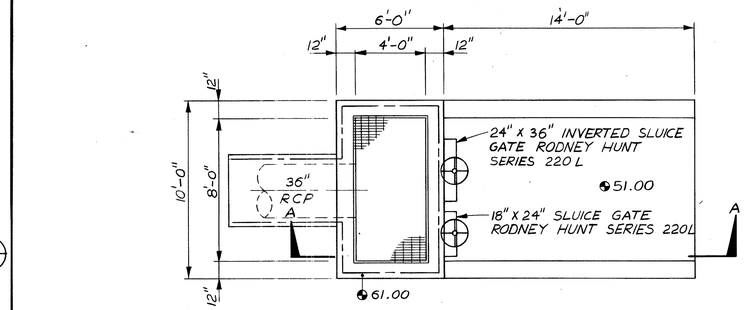

(4/12) TYP. V-DITCH SWALE DETAIL
NOT TO SCALE



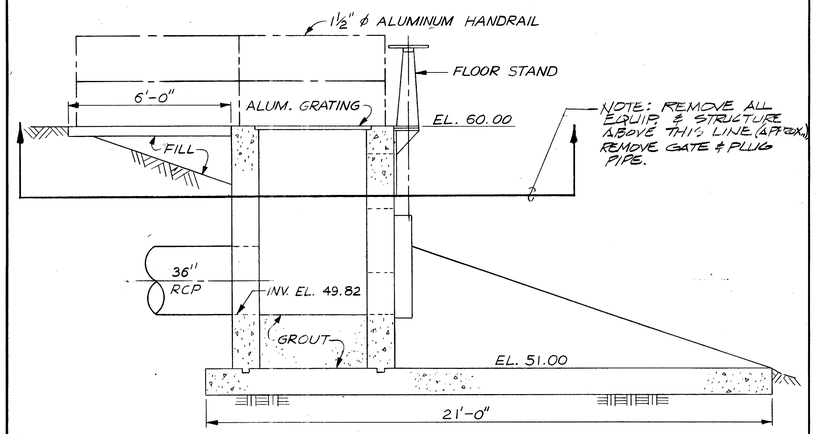

(2/12) 2' FLAT BOTTOM DITCH DETAIL (TYPICAL)
NOT TO SCALE




SECTION (A/8/12)
NOT TO SCALE




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




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

EXIST. EFFLUENT OUTFALL STRUCTURE
SEE SHEET 8 FOR LOCATION

THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

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| | |
|---|---|
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| E | FOR ESTIMATING ONLY |
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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 3 | 3/1998 | RECORD DRAWING | RAP |
| 2 | 5-30-91 | REVISED PER ADDENDUM #2 | SGO |
| 1 | | | |

DESIGNED RCB | DRAWN RAP, NRM | CHECKED SRS

ENGINEER OF RECORD:

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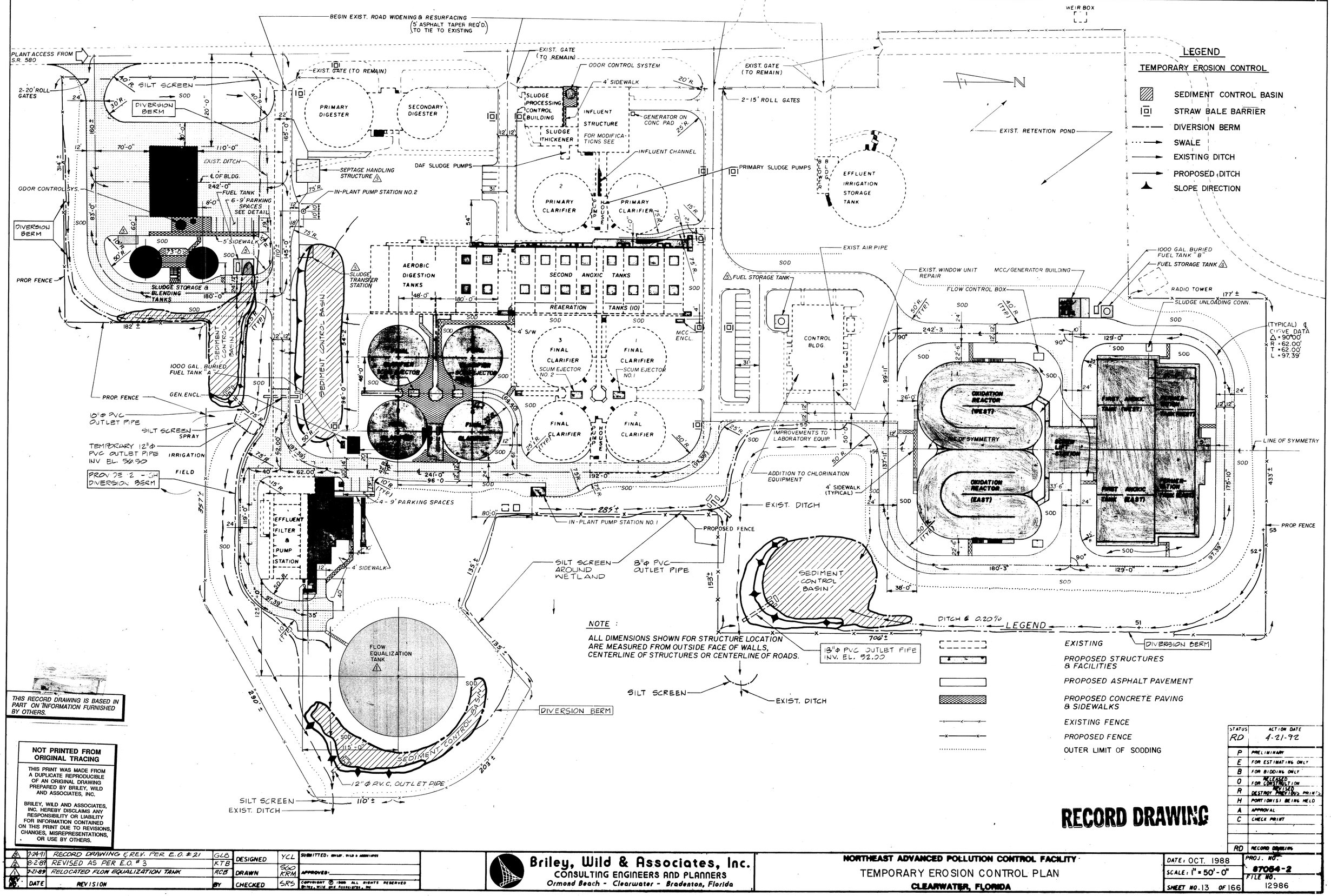
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
MISCELLANEOUS CIVIL DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 12 OF 166
PROJ. NO. 87054-2
FILE NO. 12985

92016




## LEGEND

### TEMPORARY EROSION CONTROL

- SEDIMENT CONTROL BASIN
- STRAW BALE BARRIER
- DIVERSION BERM
- SWALE
- EXISTING DITCH
- PROPOSED DITCH
- SLOPE DIRECTION

**NOTE :**

ALL DIMENSIONS SHOWN FOR STRUCTURE LOCATION ARE MEASURED FROM OUTSIDE FACE OF WALLS, CENTERLINE OF STRUCTURES OR CENTERLINE OF ROADS.

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| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| NO. | DATE | REVISION | BY |
|---|---|---|---|
| 3 | 1-24-91 | RECORD DRAWING & REV. PER E.O. #21 | GLB |
| 2 | 8-2-89 | REVISED AS PER E.O. # 3 | KTB |
| 1 | 7-21-89 | RELOCATED FLOW EQUALIZATION TANK | RCB |

DESIGNED YCL | DRAWN SGO KRM | CHECKED SRS

SUBMITTED: BRILEY, WILD & ASSOCIATES

APPROVED:

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Ormond Beach - Clearwater - Bradenton, Florida

**NORTHEAST ADVANCED POLLUTION CONTROL FACILITY**

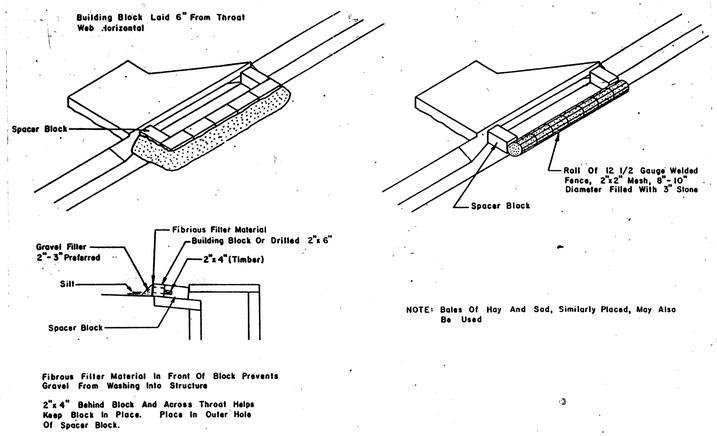
TEMPORARY EROSION CONTROL PLAN

**CLEARWATER, FLORIDA**

DATE: OCT. 1988
SCALE: 1" = 50'-0"
SHEET NO. 13 OF 166

PROJ. NO. 87054-2
FILE NO. 12986

92016



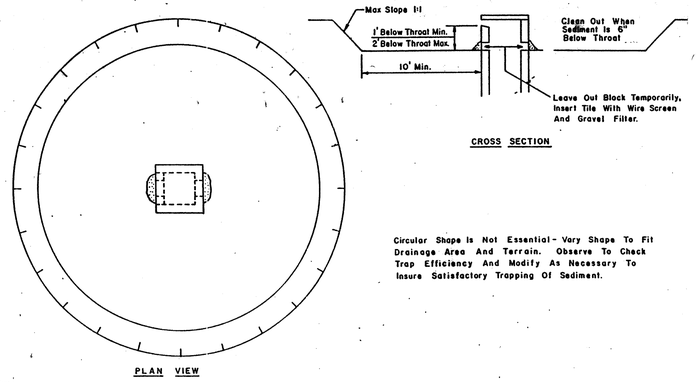

Fibrous Filter Material In Front Of Block Prevents Gravel From Washing Into Structure

2"x 4" Behind Block And Across Throat Helps Keep Block In Place. Place In Outer Hole Of Spacer Block.

NOTE: Bales Of Hay And Sod, Similarly Placed, May Also Be Used

## SEDIMENT TRAP AT CURB INLET

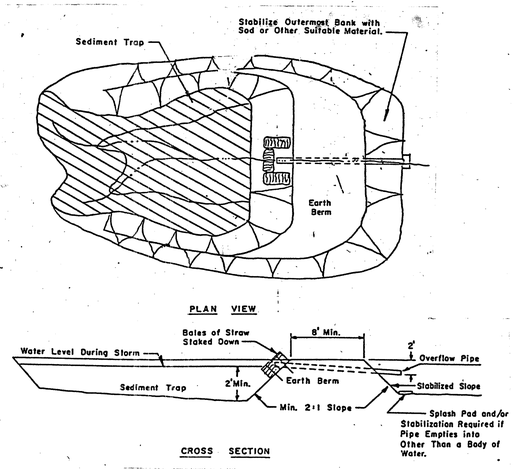
PER CITY OF CLEARWATER STANDARDS INDEX NO. 604




Circular Shape Is Not Essential- Vary Shape To Fit Drainage Area And Terrain. Observe To Check Trap Efficiency And Modify As Necessary To Insure Satisfactory Trapping Of Sediment.

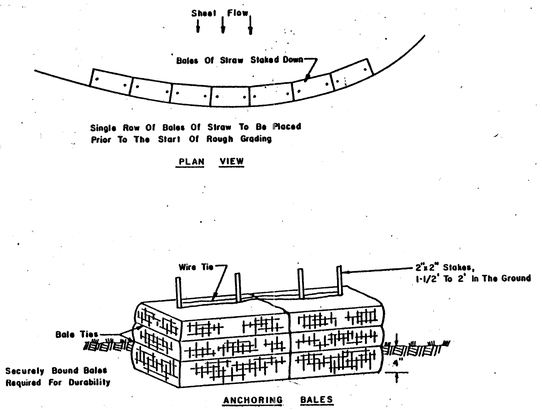
## SEDIMENT TRAP AT STORM DRAIN INLET

PER CITY OF CLEARWATER STANDARDS INDEX NO. 605



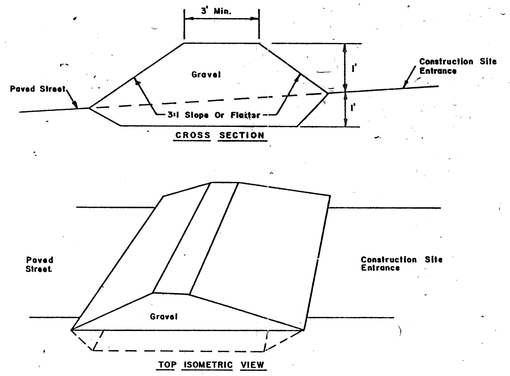

## SEDIMENT CONTROL BASIN

PER CITY OF CLEARWATER STANDARDS INDEX NO. 606



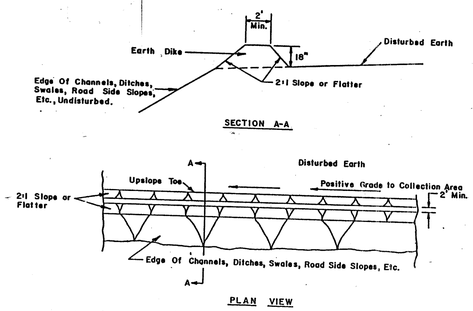

## STRAW BALE SEDIMENT BARRIER

PER CITY OF CLEARWATER STANDARDS INDEX NO. 603




## GRAVEL INTERCEPTOR BERM

PER CITY OF CLEARWATER STANDARDS INDEX NO. 601




## DIVERSION BERM

PER CITY OF CLEARWATER STANDARDS INDEX NO. 602

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
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| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 5-30-89 | REVISED PER ADDENDUM #1 | SGO |

DESIGNED RCB | DRAWN EDS | CHECKED SRS

SUBMITTED: BRILEY, WILD & ASSOCIATES

APPROVED:

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
TEMPORARY EROSION CONTROL DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 13A OF 166
PROJ. NO. 87054-2
FILE NO. 12986-A

92016

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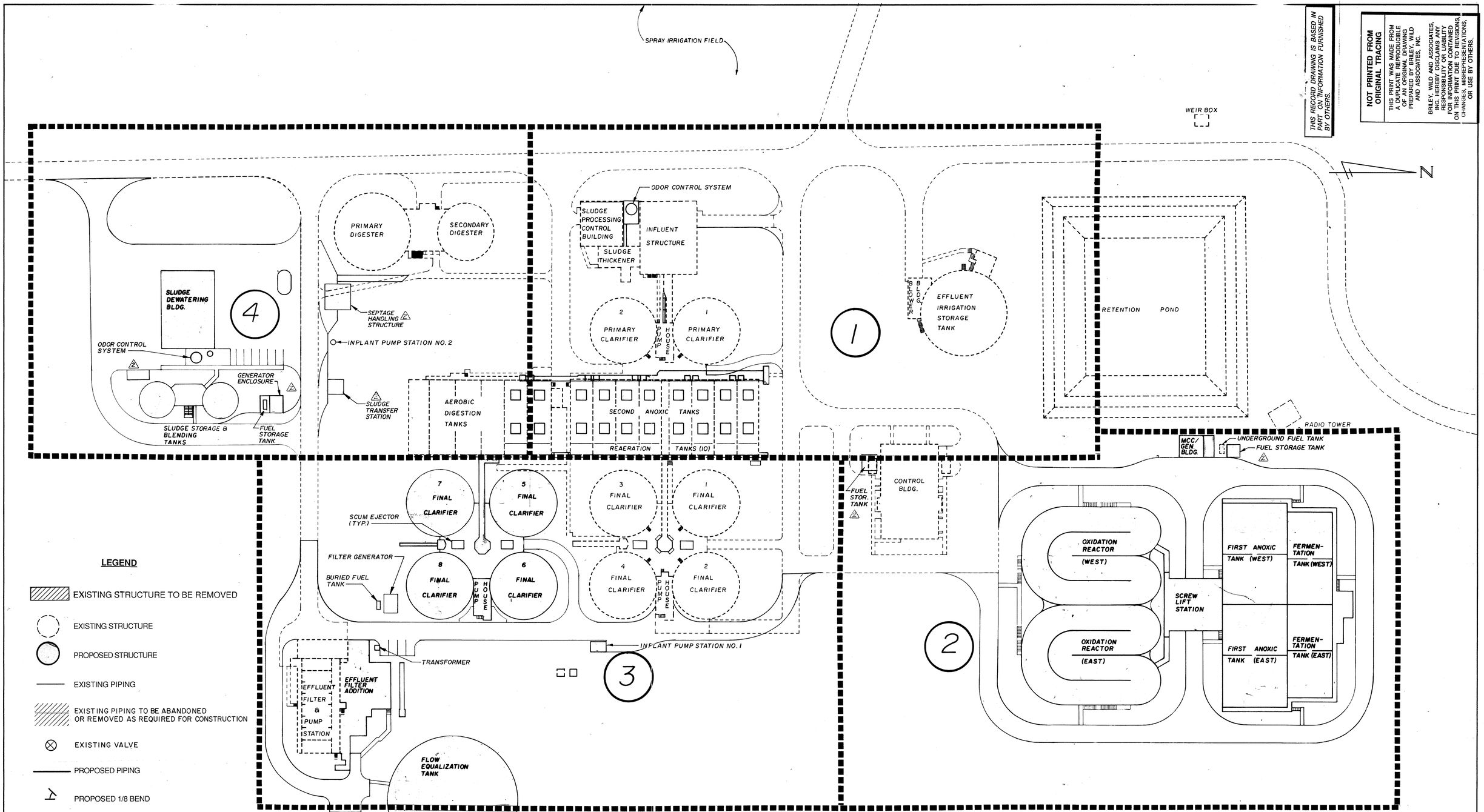


## LEGEND

- EXISTING STRUCTURE TO BE REMOVED
- EXISTING STRUCTURE
- PROPOSED STRUCTURE
- EXISTING PIPING
- EXISTING PIPING TO BE ABANDONED OR REMOVED AS REQUIRED FOR CONSTRUCTION
- EXISTING VALVE
- PROPOSED PIPING
- PROPOSED 1/8 BEND
- PROPOSED 1/4 BEND
- PROPOSED TEE
- PROPOSED CROSS
- PROPOSED GATE VALVE
- PROPOSED PLUG VALVE


1 SHEET – 15
2 SHEET – 16
3 SHEET – 17
4 SHEET – 18


NOTES:

1. ALL PIPING SMALLER THAN 12" SHALL BE PVC OR DIP. PIPING 12" & LARGER SHALL BE DIP UNLESS NOTED OTHERWISE.
2. YARD PIPING SHALL BE UNIFORMLY SLOPED BETWEEN ELEVATIONS SHOWN, UNLESS NOTED OTHERWISE.
3. ALL EXISTING YARD PIPING SHOWN IS APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION & DEPTH OF ALL EXISTING YARD PIPING.
4. CONTRACTOR SHALL INCLUDE IN HIS BID THE COSTS FOR THE REMOVAL OF PORTIONS OF ABANDONED EXISTING PIPING FOR CONSTRUCTION.
5. ALL YARD PIPING SHALL BE STAINLESS STEEL PIPE AS SPECIFIED IN SECTION 15061-STEEL PIPE.
6. EXISTING IRRIGATION SYSTEM SHALL BE MAINTAINED IN OPERATION. WHERE IRRIGATION LINES ARE CUT, FOR PURPOSES OF CONSTRUCTION, THE ENDS SHALL BE PLUGGED.

PIPING LEGEND

AIR - AIR
BLS - BLENDED SLUDGE
BWR - BACKWASH RETURN
CAS - COMPRESSED AIR SUPPLY
CIP - CAST IRON PIPE
CL EFF-CLARIFIER EFFLUENT
CLS - CHLORINE SOLUTION
CMP - CORRUGATED METAL PIPE
CR - CHLORINE RESIDUAL
DL/DW - DEWATERING/DRAIN LINE
DPSL - DIGESTED PRIMARY SLUDGE
DTS - DIGESTER TANK SUPERNATANT
EFF. - EFFLUENT
EFW - EFFLUENT FLUSHING WATER
EIS - EFFLUENT IRRIGATION SUPPLY
ESW - EFFLUENT SAMPLING WATER
FM - FORCE MAIN
FSW - FOAM SPRAY WATER
GAS - GAS
IRR - IRRIGATION
ORE - OXIDATION REACTOR EFFLUENT
PE - PRIMARY EFFLUENT
POT - POTABLE WARTER
PSC - PRIMARY SCUM
PSL - PRIMARY SLUDGE
RAS - RETURN ACTIVATED SLUDGE
RCP - REINFORCED CONCRETE PIPE
SC - SCUM
SD - SUMP PUMP DRAIN
SEW - RAW SEWAGE
SL - SLUDGE
TDS - THICKENED DIGESTED SLUDGE
TEF - THICKENER EFFLUENT
TWAS - THICKENED WASTE ACTIVATED SLUDGE
WAS - WASTE ACTIVATED SLUDGE
WS - WASTE SLUDGE

# RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
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| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 8-30-91 | REVISED PER E.O. #21 & RECORD DRAWING | GLB |
| 1 | 5-31-91 | REVISED AS PER ADDENDUM NO 1 | BVB |

DESIGNED SRS | DRAWN KRM SGO | CHECKED SRS

SUBMITTED: BRILEY, WILD & ASSOCIATES

APPROVED:

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

YARD PIPING KEY PLAN

CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1" = 50'-0"
SHEET NO. 14 OF 166

PROJ. NO. 87054-2
FILE NO. 12987

92016

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⚠ NOTE
ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061-STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

NOTE:
FOR LEGEND SEE SHEET 14 : 166.

SEE SHEET 115 FOR ADDITIONAL YARD PIPING IN THIS AREA

FOR DETAIL OF THIS AREA SEE SHTS. 49 & 50.

RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
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| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY | CHECKED |
|---|---|---|---|---|
| 2 | 7-16-92 | RECORD DRAWING | KFP | SRS |
| 1 | 3-31-89 | REVISED AS PER ADDENDUM #1 | BVB | SRS |

DESIGNED SRS · DRAWN · CHECKED SRS

SUBMITTED: BRILEY, WILD & ASSOCIATES

APPROVED:

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Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

YARD PIPING PLAN (1)

CLEARWATER, FLORIDA

DATE: OCT. 1988 · SCALE: 1" = 20' · SHEET NO. 15 OF 166

PROJ. NO. 87054-2 · FILE NO. 12988

92016

. PRF=QS1: (30, 377)377110, DATE= 8-JUL-91, TIME=15: 39: 54 !

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1-18"x16" CROSS
1-18"x6" REDUCER
CONNECT TO EXIST 16"

18" AIR S.S. ℄ EL 51.33

6" AIR ℄ EL 52.25

PLUG

6" UNDERDRAIN

MCC/ GEN BLDG

BURIED FUEL TANK

2000 GAL. FUEL STORAGE TANK WITH CONTAINMENT AREA

N

36" AIR ℄ EL 48.56 (ABANDON)

18" AIR ℄ EL 50.00

8" CIP

3000 GAL. FUEL STORAGE TANK & CONTAINMENT AREA

CONTROL BLDG.

2" GAS

INSTRUMENTATION CONDUIT

6" EFW ℄ EL 52.50
6" FSW ℄ EL 52.50

3" CLS ℄ EL 54.50
3" CLS
1½" CR

6" POT

3" CLS ℄ EL 54.50
1¼" CLS ℄ EL 54.50

4" EFW

6" EFW

PROPOSED SWALE

38"x24" RCP

INV 52.47

INV 52.63

℄ EL 49.00

1-PRECAST MANHOLE
1-1½" TAPPED SADDLE
1-1¼" BALL VALVE & PIPE TAP TYPE CONNECTION END OF TUBE SHALL EXTEND 12" INTO MAIN
CONNECT TO PROP 16"

24" RAS ℄ EL 47.00
12" DW ℄ EL 45.92
16" EIS ℄ EL 47.00

3" CLS

12" DW

38" OUTFALL (ABANDON)

INV 53.24

INV 52.98

16" EIS ℄ EL 47.00

48" ORE ℄ EL 49.50

30"x19" RCP
12" EFFL. OUTFALL

4" SEW ℄ EL 55.00

LOWER EXISTING 6" EFW AS REQ'D TO PROVIDE A MIN OF 24" COVER

6" EFW

10" DW ℄ EL 45.92

36" ORE ℄ EL 49.50

℄ EL 50.50

10" DL ℄ EL 45.92

6" EFW ℄ EL 52.00

36" ORE ℄ EL 49.50

JB
INV 47.81

1-6" TAPPING SLEEVE
1-6" TAPPING VALVE
CONNECT TO EXIST 6"

1-6" TAPPING SLEEVE
1-6" TAPPING VALVE
1-6" ¼ BEND

OXIDATION REACTOR (WEST)

OXIDATION REACTOR (EAST)

SCREW LIFT STATION

FLOW CONTROL BOX SEE DETAIL SHT. 127

6" QUICK-DISCONNECT HOSE CONNECTION FOR TRUCK UNLOADING

1-6" TAPPED SADDLE CONNECT TO PROP. 48"

SEE DETAIL 1/11

36" INTERNAL RECYCLE ℄ EL 49.50

48" PE ℄ EL 50.50
6" AIR ℄ EL 52.00
6" EFW ℄ EL 52.00
10" DW ℄ EL 45.92
6" DW ℄ EL 49.50

6" DL @ 1.0%
6" EFW ℄ EL 53.00
10" DW ℄ EL 45.92
6" DW ℄ EL 54.00

1½" EFW
4" DW
1½" EFW
1½" EFW
1½" EFW
1½" EFW
2½" EFW
1½" EFW
1½" EFW
1½" EFW
1½" EFW
1½" EFW

C.O.

6" EFW ℄ EL 52.00
1½" EFW ℄ EL 52.00
6" AIR ℄ EL 52.00

℄ EL 48.75

FIRST ANOXIC TANK (WEST)

FERMENTATION TANK (WEST)

FIRST ANOXIC TANK (EAST)

FERMENTATION TANK (EAST)

48" PE ℄ EL 50.50
6" EFW ℄ EL 52.00
24" RAS ℄ EL 52.00

PLUG

2-10" ⅛ BENDS
2-6" ⅛ BENDS

10" DW ℄ EL 48.50
6" DW ℄ EL 49.42

6" EFW ℄ EL 51.00
24" RAS ℄ EL 50.00
6" EFW ℄ EL 51.50
24" RAS ℄ EL 52.00

6" DW ℄ EL 49.50

36" INTERNAL RECYCLE ℄ EL 49.50

FLOW CONTROL BOX SEE DETAIL SHT. 127

LOWER 6" EFW TO ℄ ELEV 50.00 WITHIN THESE LIMITS

13'
25'
9'
℄ ROAD
5'
3'

NOTE:
FOR LEGEND SEE SHEET 14 : 165.

NOTE
ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061-STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

# RECORD DRAWING

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 5-16-90 | RECORD DRAWING | KFP |
| 1 | 3-31-89 | REVISED AS PER ADDENDUM NO 1 | BVB |

DESIGNED SRS
DRAWN SGO
CHECKED YCL

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:

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Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

YARD PIPING PLAN (2)

CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1" = 20'
SHEET NO. 16 OF 166

PROJ. NO. 87054-2
FILE NO. 12989

92016

PRF=QS1: [30,377]377111, DATE=13-MAR-92, TIME=10:21:34 !

CONNECT TO 6" AIR MAIN

CONNECT TO EXIST 12" AIR MAIN

FOR PROPOSED VERTICAL RISERS AND PROPOSED HORIZONTAL RUNS OF AIR PIPING WITHIN TANKS, SEE SHTS 49 & 50 (TYP)

BOX INV 51.56

10" AIR ℄ EL 53.00

6" AIR

18"x10" REDUCER

10" DW ℄ EL 47.17

18" AIR ℄ EL 57.00

6" FSW

16" AIR ℄ EL 53.67
24" AIR ℄ EL 49.34
(ABANDON BOTH MAINS)

12" AIR ℄ EL 53.67
24" AIR ℄ EL 49.34
(ABANDON BOTH MAINS)

24" AIR (ABANDON)

CAP

18" AIR ℄ EL 57.00

6" FSW

1½" ESW ℄ EL 58.25

10" DW ℄ EL 47.17

12" AIR ℄ EL 54.00
24" AIR ℄ EL 49.34
(ABANDON BOTH MAINS)

18" AIR ℄ EL 57.00

12" AIR ℄ EL 54.00
36" AIR ℄ EL 49.34
(ABANDON BOTH MAINS)

36"

30"x19" RCP

6" DW ℄ EL 54.75

6" FSW ℄ EL 58.84

36" AIR/SCUM/EV AB 68 (ABANDON)

18" AIR ℄ EL 50.00

6" DW ℄ EL 46.50

22"x13" CMP

8" CIP

℄ EL 50.00

1-10" PLUG VALVE
1-10" WYE
1-10" ⅛ BEND
CONNECT TO EXIST. 10" DW

4" AIR MAIN INSTALLED ON TOP OF CHANNEL WALL

REMOVE STRUCTURE & ASSOCIATED PIPING SEE DETAIL SHT 55
A 16" RAS ℄ EL 53.17
B 6" WS ℄ EL 54.42
C 6" DW/SC ℄ EL 56.72
D 6" DW/SC

CONNECT TO EXIST 4" AIR

8'

3" POT ℄ EL 51.75

30" EFF ℄ EL 50.00

4" EFW

6" SC ℄ EL 53.50

FINAL CLARIFIER NO. 7

FINAL CLARIFIER NO. 5

FINAL CLARIFIER NO. 3

FINAL CLARIFIER NO. 1

4" AIR

10" DW ℄ EL 49.19

10" DW

REMOVE 10" ¼ BEND & 10" PLUG VALVE
INSTALL 10" CROSS
INSTALL 10" C.O. ASSEMBLY
CONNECT TO EXIST 10"

℄ EL 53.71

PLUG

℄ EL 47.25
C.O.

10" DW
℄ EL 47.25

10" DW

57.50

2" CAS
℄ EL 57.50

3" EFW
℄ EL 57.00

6" SC
℄ EL 58.00

6" FSW ℄ EL 54.50

6" SC ℄ EL 54.00

3" CLS ℄ EL 54.50

3" CLS

1½" CR

PLUG

1-3" ¼ BEND
CONNECT TO EXIST 3"

℄ EL 51.50

6" SC ℄ EL 54.00

30"x19" RCP

INV EL 54.00

57.50

2" CAS
℄ EL 57.75

3" CLS
℄ EL 57.75

REMOVE EXIST ⅛ BEND
CONNECT TO EXIST 3"

3" EFW
℄ EL 57.00

FILTER GENERATOR

BURIED FUEL TANK

FINAL CLARIFIER NO. 8

FINAL CLARIFIER NO. 6

(REMOVE) CHLORINE CONTACT TANK

FINAL CLARIFIER NO. 4

FINAL CLARIFIER NO. 2

PUMPHOUSE

PROPOSED SCUM EJECTOR PIT SEE DETAILS SHT. 63 & 67.

6" POT

INV EL 51.38

6" AIR ℄ EL 54.58

36" CL EFF
℄ EL 53.17

16" RAS ℄ EL 54.50

10" DW ℄ EL 49.19

1-6" TAPPING SLEEVE
1-6" TAPPING VALVE
CONNECT TO EXIST 6"

REMOVE EXIST 16"-⅛ BEND
CONNECT TO EXIST 16"

1-6" ¼ BEND
CONNECT TO EXIST 6"

2" CAS
℄ EL 55.00

3" CLS
℄ EL 55.00

℄ EL 55.41

℄ EL 55.22

1½" CR
℄ EL 54.50

1½" ESW
℄ EL 55.25

6" WS ℄ EL 53.75
2-10" ⅛ BENDS

16" RAS ℄ EL 55.00

℄ EL 53.71

16" RAS ℄ EL 54.50

℄ EL 57.71

6" WS ℄ EL 53.71

1½" ESW ℄ EL 58.25

16" RAS ℄ EL 54.50

24" RAS ℄ EL 54.50

16" EIS
℄ EL 50.50

INV EL 43.05

6" EFW
℄ EL 54.58

16" EIS
℄ EL 55.00

2-10" ⅛ BENDS

12" DL
@ 0.40%

12" DW @ 0.75%

16" EIS ℄ EL 54.50

3" CLS ℄ EL 55.50

3" CLS ℄ EL 53.00

12" DL @ 0.40%

12" DL @ 2.25%

3" CLS
℄ EL 55.50

2-16" ⅛ BENDS

FOR ADDITIONAL PROPOSED PIPING WITHIN THIS AREA, SEE SHTS. 61 & 62.

BYPASS CONNECTION SEE DETAIL SHT 114

4'

2-3" ⅛ BENDS

℄ EL 49.00

℄ EL 49.00

1-PRECAST MANHOLE
1-3" TAPPED SADDLE
1-3" BALL VALVE & PIPE TAP TYPE CONN. END OF TUBE SHALL EXTEND 12" INTO MAIN
CONNECT TO PROP 24"

CONNECT TO EXIST CONCRETE BOX

CONSTRUCT SAN M.H.
TOP EL 59.45
N INV EL 44.12
S INV EL 42.12
E INV EL 41.95

CONNECT TO EXIST 12"

12" EFFL. OUTFALL

FOR PIPING REMOVALS AND MODIFICATIONS WITHIN THIS AREA, SEE SHT. 67.

CONSTRUCT SAN M.H.
TOP EL 57.50
W INV EL 46.25
N & S INV EL 45.42

INV EL 51.12

1-24" TAPPING SLEEVE
1-24" TAPPING VALVE
CONNECT TO EXIST 24"
SEE DETAIL SHT. 89.

INV EL 43.75

1-6" ¼ BEND
CONNECT TO EXIST 6"

1-36" ⅛ BEND
CONNECT TO EXIST 36"

℄ EL 51.00

36" EFF

49.00 48.50

6" EFW

3" CLS

1-3" TEE
CONNECT TO EXIST 3"

1-3" ¼ BEND
CONNECT TO EXIST 3"

IN-PLANT PUMP STA #1
SEE DETAIL SHTS 112 & 113.

PLUG

1-1" TAPPED SADDLE
CONNECT TO EXIST 6"

EXISTING 12" EFFLUENT OUTFALL TO BE REUSED FOR IN-PLANT PUMP STATION NO. 1 DISCHARGE

THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

EFFLUENT FILTER & PUMP STATION

TRANSFORMER

EFFLUENT FILTER ADDITION

58.50

49.50

42" CL EFF
℄ EL 51.75

℄ EL 51.75

36" CL EFF
℄ EL 51.75

2 CONSTRUCT SAN DROP M.H.
TOP EL 59.30
W INV EL 46.83
N & S INV EL 42.23

24" EFF ℄ EL 53.50

FOR DETAILS THIS AREA, SEE SHT. 88.

FOR DETAILS THIS AREA, SEE SHT. 72.

30" CL EFF
℄ EL 50.50

24" EFF
℄ EL 53.50

36" CL EFF

24" EFF ℄ EL 51.75

36" PLUG

30" EFF
℄ EL 50.50

℄ TANK

10'-0"

24" EFF ℄ EL 57.80

3

2

FLOW EQUALIZATION TANK

NOTE:
FOR LEGEND SEE SHEET 14 : 166.

1 NOTE
ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061-STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 3 | 3-14-92 | RECORD DRAWING | KFP |
| 2 | 8-1-89 | REVISED AS PER E.O. #3 | KTB |
| 1 | 3-31-89 | REVISED AS PER ADDENDUM NO. 1 | BVB |

DESIGNED SRS
DRAWN
CHECKED YCL

SUBMITTED: BRILEY, WILD & ASSOCIATES

APPROVED:

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Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

YARD PIPING PLAN (3)

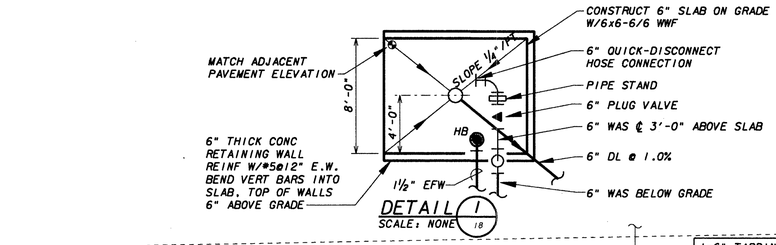
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1" = 20'
SHEET NO. 17 OF 166

PROJ. NO. 87054-2
FILE NO. 12990

92016

PRF=GS1: (30,3771377112, DATE= 8-JUL-91, TIME=16:24:46 !




DETAIL 1 / 18
SCALE: NONE

1-30" WYE
1-30" BUTTERFLY VALVE
CONNECT TO EXIST. 30"

N

12" EFF

12" FM

30" FM

℄ BY F.P.C. (PUT IN NEW CABLE TO FILTER BLDG)

30" DIP EFF

1-6" TAPPING SLEEVE
1-6" TAPPING VALVE
CONNECT TO EXIST 6" "BY CITY" (CREDIT DUE OWNER)

CONNECT TO EXISTING 6" WITH 1-1½" PIPE TAP
1-½" CORP. STOP

6" DRAIN

6" POT

℄ EL 55.75

1-6" TAPPING SADDLE
1-2" TAPPING VALVE
1-2" METER
(BY CITY)
CONNECT TO EXIST. 6"

INV 52.66

10"

2" POT

30" RCP

PRIMARY DIGESTER

SECONDARY DIGESTER

EL 61.50
EL 61.50
EL 61.50
EL 60.25
EL 61.50
EL 61.50
EL 60.25

5 INCH EXPANSION

18"x12" RCP

PLUG
6" TEE

6" PSL ℄ EL 58.00

1½" POT. ⑤

2" GAS

⅜" GAS

6"DTS

3"DTS

6"TWAS

1½" EFW

6"PSL

6" DTS @ 3.60%

℄ EL 59.50

℄ EL 58.00

℄ EL 57.00

WASTE GAS BURNER

ROTATE EXIST 6" ¼ BEND TO VERTICAL POSITION
INSTALL 1-6" ¼ BEND
CONNECT TO EXIST 6"

REMOVE EXIST 6" ¼ BEND
INSTALL 1-6" TEE
2-6" ¼ BENDS (VERTICAL)
CONNECT TO EXIST 6"

REMOVE EXIST 6" ¼ BEND
INSTALL 1-6" TEE
2-6" ¼ BENDS (VERTICAL)
CONNECT TO EXIST 6"

NOTE:
FOR LEGEND SEE SHEET 14 : 166.

2" POT ⑤
℄ EL 54.00

1½" POT

2" EFW

2" EFW

2" POT ⑤

6" EFW ℄ EL 54.50

4" SEW
C.O. INV. EL. 52.49

10' DL

6" DL

6" DL @ 0.50%

12" DL @ 0.50%

SLUDGE DEWATERING BUILDING

6" BLS ℄ EL 55.50

1" POT

6" POT ℄ EL 54.00

SEPTAGE HANDLING STRUCTURE ⑤

CONSTRUCT SAN M.H.
TOP EL 58.25
N INV EL 53.40
SW INV EL 54.87

6" WAS ℄ EL 55.50

6" EFW

6" WS ℄ EL 55.50

6" DL @ 1.0%

6" DL @ 0.50%

CONSTRUCT SAN DROP M.H.
TOP EL 57.85
W INV EL 52.95
S INV EL 46.41
E INV EL 46.15

CONSTRUCT SAN DROP M.H.
TOP EL 57.98
W INV EL 52.32
S INV EL 52.58
N INV EL 47.00
E INV EL 52.42

40' (NTS)

12" DL @ 0.50%

12" DL

30" RCP

30" EFF ℄ EL 50.00

6" DL @ 1.00%

IN-PLANT PUMP STA #2
SEE DETAIL SHT 114

BYPASS CONNECTION
SEE DETAIL SHT 114

57'±

52'±

NOTE
ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061-STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

1" EFW
6"TWAS
6" WS
6" PSL
8" BWR
12" AIR

DUMPSTER PAD ⑤

6" BLS

6" DL @ 3.02%

2" EFW

6" EFW ℄ EL 52.75

8" DW ℄ EL 52.75

℄ EL 53.75

℄ EL 56.25 C.O.

2" EFW ℄ EL 55.75

6" EFW ℄ EL 55.00

C.O.

6" DL

CITY FURNISHED PLUG VALVE

SLUDGE STORAGE & BLENDING TANK

SLUDGE STORAGE & BLENDING TANK

H.B.

6" DL @ 3.02%

INV 52.21

INV 52.16

GEN. BLDG. ⑤

℄ EL 55.75

℄ EL 55.75

C.O.

8" SL

8" WS & TWAS

6" SC ℄ EL 54.75

8" WS & TWAS ℄ EL 55.50

℄ ROAD

PLUG

23'

SLUDGE TRANSFER PUMPING STATION ⑤

8" WS & TWAS ℄ EL 54.00

1-8" ¼ BEND
CONNECT TO EXIST 8"

30" PE ℄ EL 59.75

REMOVE EXIST 6" ¼ BEND
INSTALL 1-6" ⅛ BEND
CONNECT TO EXIST 6"

AEROBIC DIGESTION TANKS

REMOVE EXIST 4" ¼ BEND
INSTALL 1-4" TEE
2-4" ¼ BENDS
1-6"x4" REDUCER
CONNECT TO EXIST 4"

45'

8" WS

3" H.B.

6" AIR ℄ EL 54.25

FOR DETAILS SEE SHEET 92

10" AIR ℄ EL 54.25

6" SC ℄ EL 53.00

30" RCP

6" PDT ℄ EL 50.00

8" WS & TWAS ℄ EL 50.00

4" EFW ℄ EL 50.00

6" SC ℄ EL 54.00

10" AIR ℄ EL 53.50

8'

4'

1-6" GATE VALVE
1-FIRE HYDRANT

INV 51.98

SCALE: 1" = 20'

THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 3 | 8-6-90 | RECORD DWG. (REQ'D BY HEALTH DEPT FOR WTR SUP) | SGO |
| 2 | 8-10-89 | REVISED AS PER E.O. #4 | RAP |
| 1 | 5-31-89 | REVISED AS PER ADDENDUM NO. 1 | BVB |

DESIGNED SRS
DRAWN SGO
CHECKED SRS

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

YARD PIPING PLAN (4)

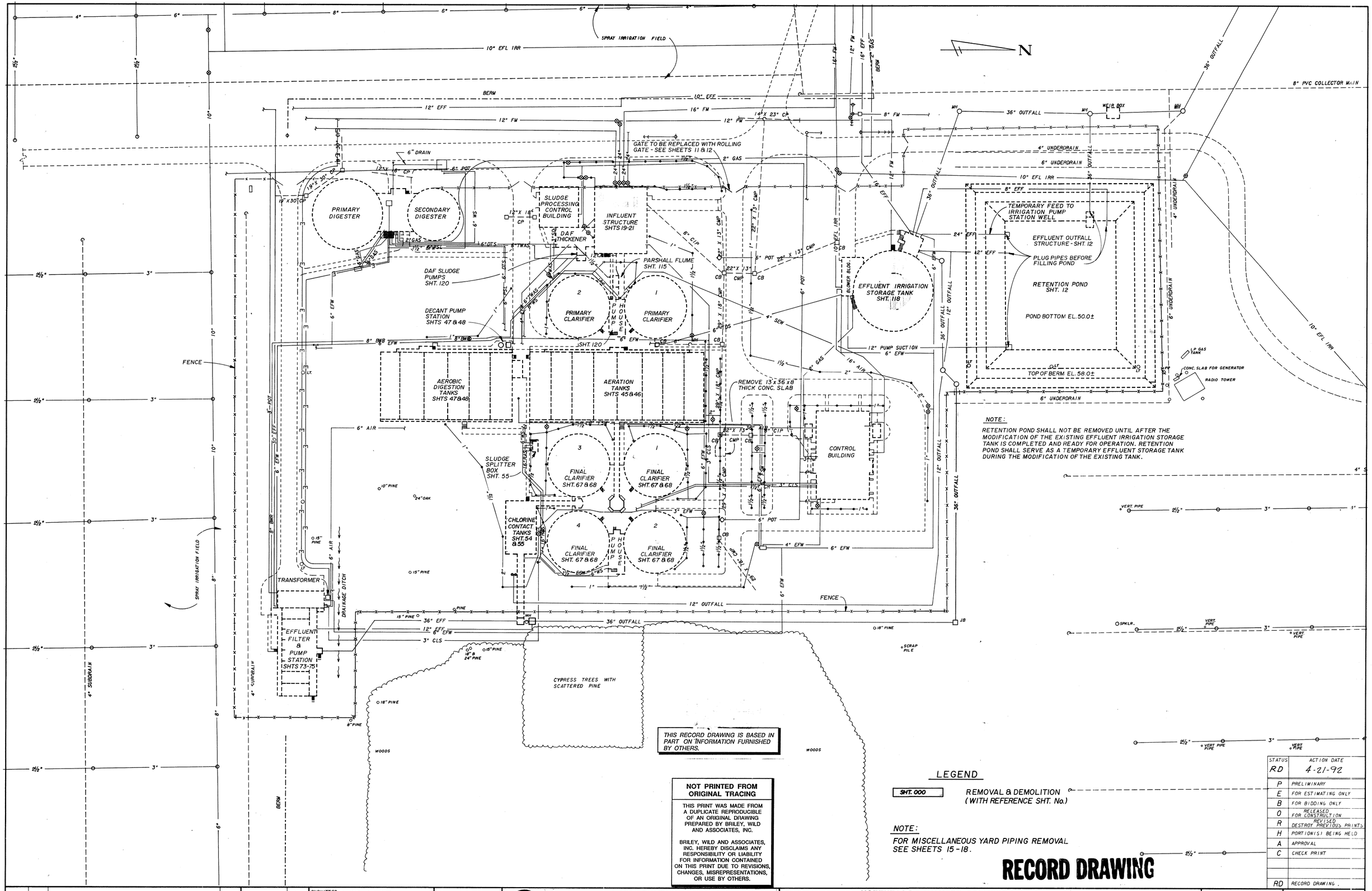
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 18 OF 166

PROJ. NO. 87054-2
FILE NO. 12991

92016

PRF=GS1: [30,377]377113, DATE=19-MAR-92, TIME=19:23:36 !




NOTE:

RETENTION POND SHALL NOT BE REMOVED UNTIL AFTER THE MODIFICATION OF THE EXISTING EFFLUENT IRRIGATION STORAGE TANK IS COMPLETED AND READY FOR OPERATION. RETENTION POND SHALL SERVE AS A TEMPORARY EFFLUENT STORAGE TANK DURING THE MODIFICATION OF THE EXISTING TANK.

THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

**NOT PRINTED FROM ORIGINAL TRACING**

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LEGEND

SHT. 000 — REMOVAL & DEMOLITION (WITH REFERENCE SHT. No.)

NOTE:

FOR MISCELLANEOUS YARD PIPING REMOVAL SEE SHEETS 15-18.

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 3 | 3-16-92 | RECORD DRAWING | RAP |

DESIGNED YCL | DRAWN SGD RRW | CHECKED SRS

SUBMITTED: BRILEY, WILD & ASSOCIATES

APPROVED:

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CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING SITE PLAN - REMOVAL & DEMOLITION**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1" = 50'
SHEET NO. 18A OF 166

PROJ. NO. 87054-2
FILE NO. 12991-A

92016

377015 88-11-S

N

℄ ROADWAY & GARAGE DOOR

ROADWAY WATER RUN OFF DRAIN W/GRATING NEENAH TYPE R1999 OR OR EQUAL

~6" D INV. EL. 54.85 TO CATCH BASIN

2½" LIQUID DISC. FROM CLASSIFIER

1" BACKFLOW PREVENTER

1" C ℄ EL. 62.0 ±

1½" x 9" O.D. RED. FLANGE 1½" EFW TO HOSE GATES

¼" TREAD PLATE

1½" EFW ℄ EL. 69.25

REMOVABLE GRATING

HANDRAIL

3 CU. YD. GRIT CONTAINER ON WHEELS

3 CU. YD. GRIT CONTAINER ON WHEELS

4" SUMP DISCH. TO INFLUENT

H.R.

GRIT CHAMBER Nº 1 (NOT IN USE)

Nº 2 (NOT IN USE)

6" G DISCHARGE

PIPE BRKT - GRINNELL FIG. 195 OR EQUAL

CONCRETE PIPE SUPPORTS

½" SEAL WATER

¾" SEAL WATER DRAIN (TYP.)

12" SEW (EXIST. C.I.P.)

24" PV (TYP.)

PIPE SUPPORT W/TIE DOWN (TYP.)

GRIT PUMP No. 1

CHLORINE DIFFUSER

A 19 21

12" TAPPING SLEEVE

24" SEW INFLUENT ℄ EL. 56.75 (TYP.)

55.25

1'-9"

1'-9"

INFLUENT WELL

6"x6" LATERAL

PIPE HANGER GRINNELL #229 OR EQUAL

6" BALL VALVE

6" C.V.

6"x4" RED. EL

No 1

6" BALL VALVE

6"x4" RED.

No 3

No 4

22½° ELL (TYP.)

10'-2" (TYP.)

1'-6" (TYP.)

SLOPE

55.25

6" COUPLING (TYP.)

6" G

6" TEE

45° ELL (TYP.)

6" GRIT HOPPER SUCTION INVERT EL. 52.08 (TYP.)

℄ HOPPER BOTTOM EL. 52.08

1½" EFW ℄ EL. 69.25

BACKFLUSH 4" DROP W/ 4" GV (TYP. 11 PLCS.)

55.17

55.0

4"

DRAINAGE GUTTER

4" EFW ℄ EL. 58.00

4'-10½"

3'-0"

6'-9"

3'-0"

1'-10½"

4'-9"

4'-9"

7'-6"

4'-3"

4'-3"

4'-3"

℄ EL. 57.67 (TYP.)

SPLITTER BOX

4" EFW ℄ EL. 63.01 ±

6" G ℄ EL. 56.25 (TYP.)

4" RCP - PLUGGED 3 PLACES

6'-0" (TYP.)

A 19 21

PLAN - LOWER LEVEL

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LEGEND

REMOVAL

EXISTING TO REMAIN

| STATUS | ACTION DATE |
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| RD | RECORD DRAWING |

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**RECORD DRAWING**

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DESIGNED SGO | DRAWN RSG | CHECKED YCL

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*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

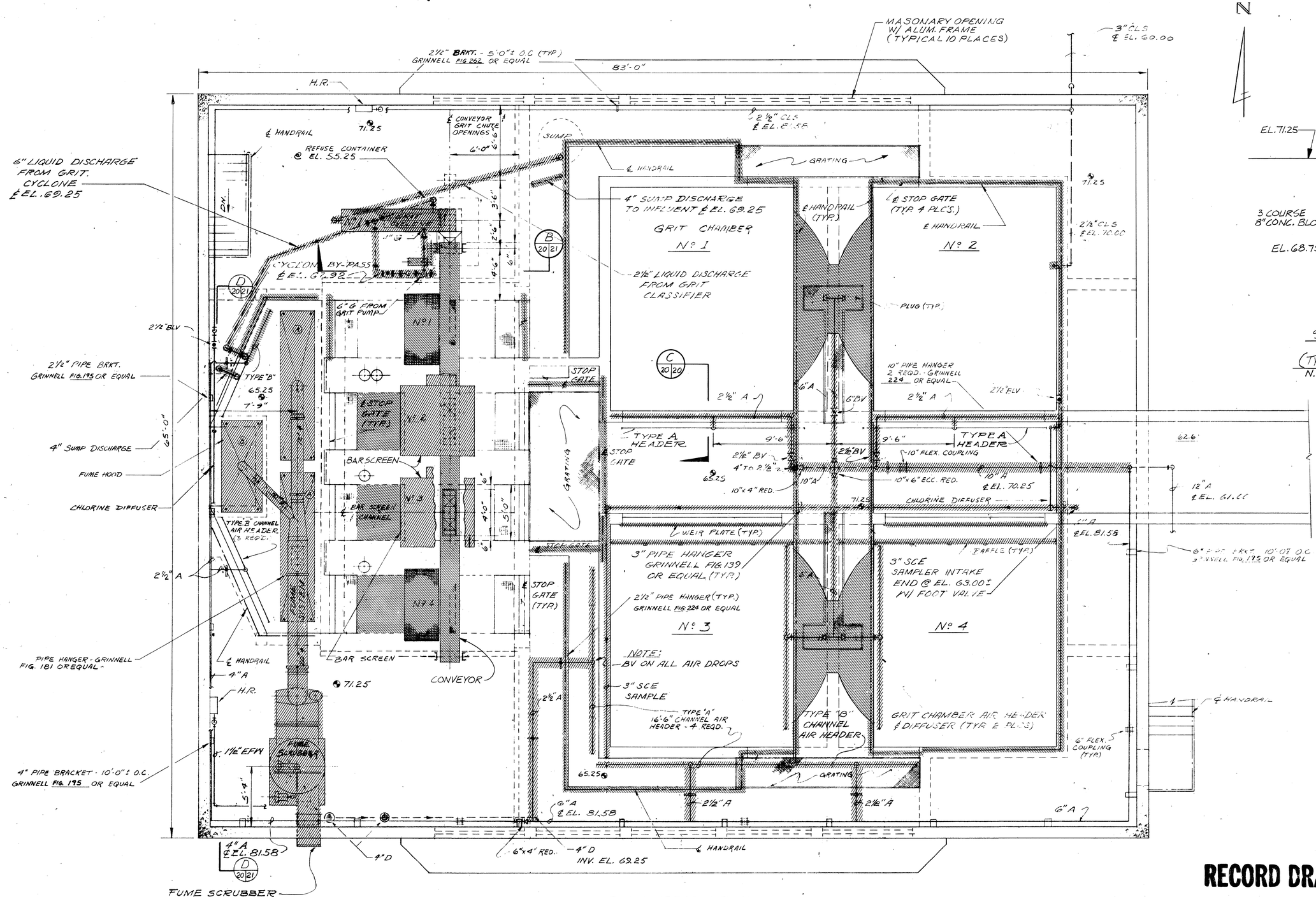
**EXISTING INFLUENT STRUCTURE - REMOVAL PLAN**

CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: 1/4"=1'-0" | SHEET NO. 19 OF 166

PROJ. NO. 87054-2 | FILE NO. 12992

92016




**RECORD DRAWING**

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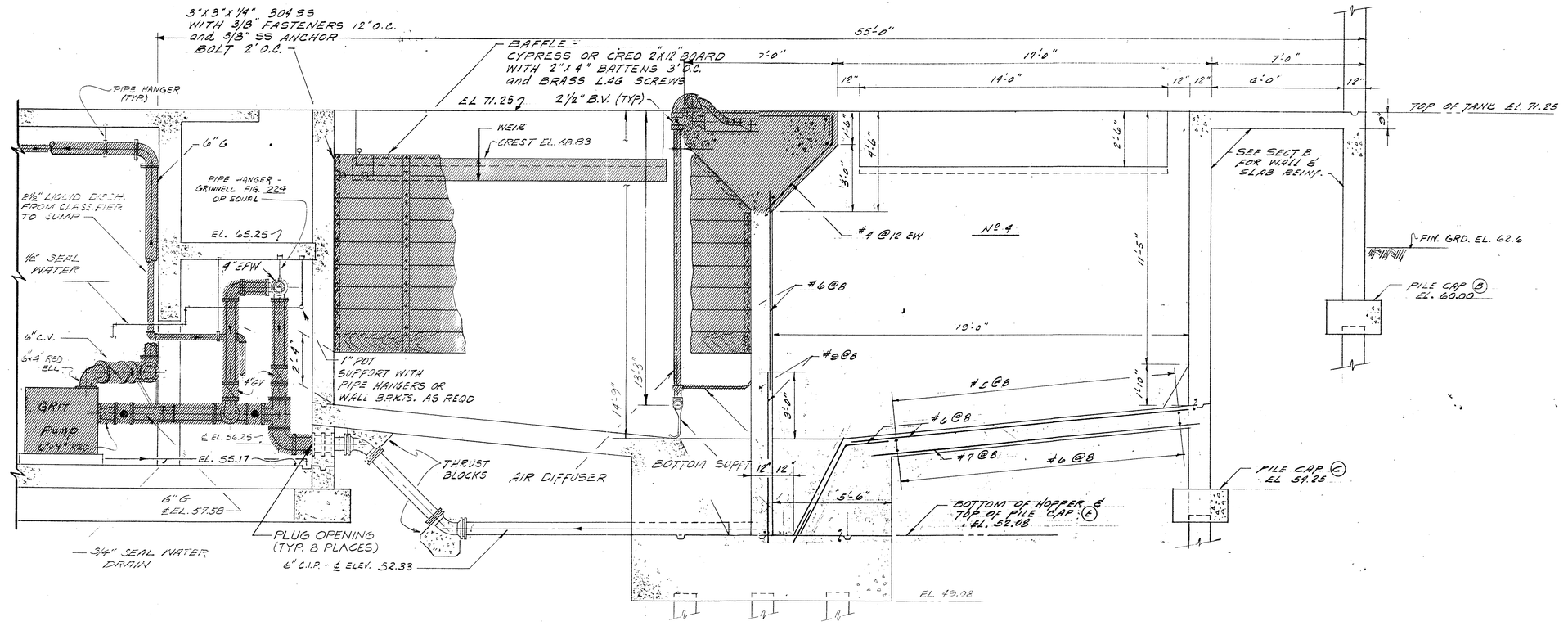
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING INFLUENT STRUCTURE - REMOVAL PLAN
CLEARWATER, FLORIDA

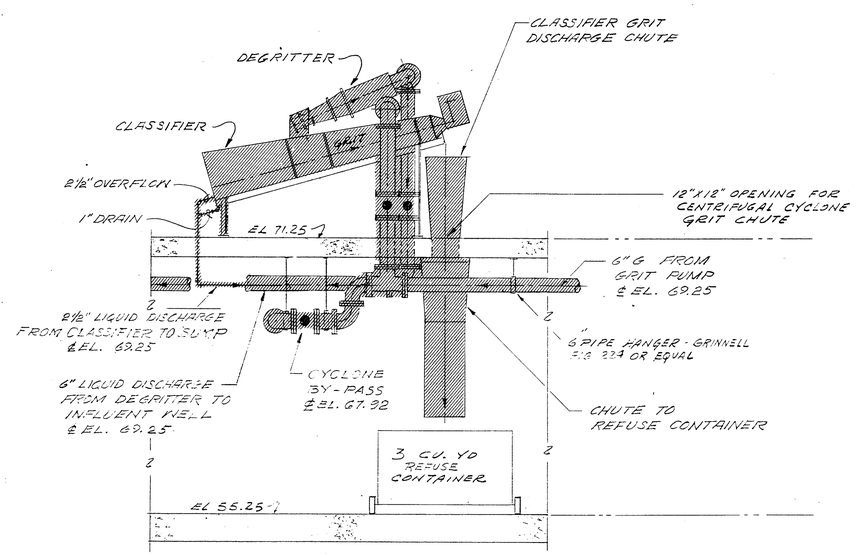
DATE: OCT. 1988
SCALE: 1/4"=1'-0"
SHEET NO. 20 OF 166

PROJ. NO. 87054-2
FILE NO. 12993

92016




SECTION (A)
SCALE: 3/8"=1'-0" 19 21




SECTION (B)
SCALE: 1¼"=1'-0" 20 21

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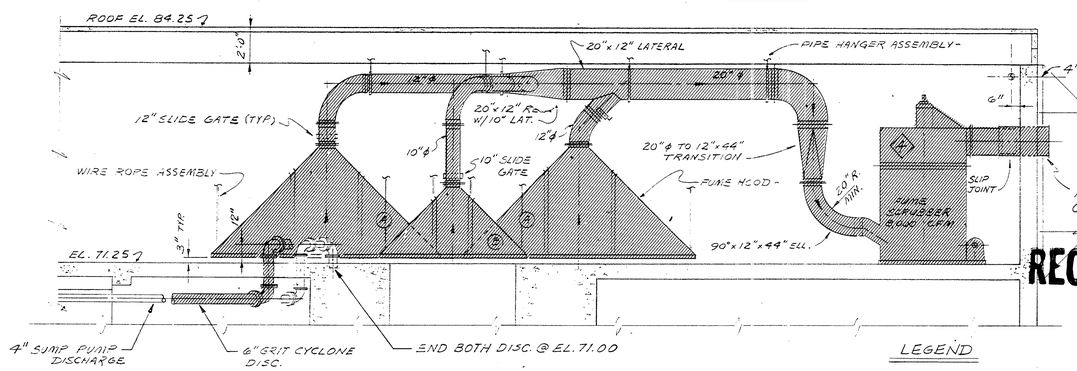


SECTION (D)
SCALE: 1¼"=1'-0" 20 21

LEGEND

REMOVAL

EXISTING TO REMAIN

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING INFLUENT STRUCTURE-**
**REMOVAL SECTIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 21 OF 166

PROJ. NO. 87054-2
FILE NO. 12994

92016

N

81'-0"

℄ 6" WALL SLEEVES EL. 68.25

OPENING AS REQ'D TO INSTALL 4'-0" x 4'-0" FLOOR HATCH

73.75

℄ 6" WALL SLEEVES EL. 69.50

EXIST. 9" CONC. SLAB

5'-0"

3'-7"

1'-9"

3'-3"

2'-0"

4" WALL SLEEVE - CO-ORDINATE LOCATION W/ EXIST. SUMP PUMP DISCHARGE BELOW.

DOWN

16'-6" N.T.S.

71.25

OPENING IN FLOOR SLAB FOR 6" DIP. COORDINATE LOCATION W/ GRIT REMOVAL EQUIP.

℄ 6" WALL SLEEVES EL. 69.25

3'-10"

1'-4"

F 22|22

℄ 6" WALL SLEEVE EL. 58.75

℄ 4" WALL SLEEVE EL. 70.08

5'-6"

12"

71.25

71.25

INFLUENT WELL

52.25

65.25

71.25

65.25

71.25

THICKENER No. 1

No. 2

℄ 6" WALL SLEEVE EL. 69.50 (TYP.)

65.25

65.25

8" (TYP.)

4'-0" (TYP.)

71.25

G 22|23

22½° (TYP. 4 PLCS.)

#5@12" (AT I.F. OF WALL T.&B.)

#5@12" T.&B.

A 22|22

6'-0"

11'-0"

4'-0"

5'6"

4'-0"

2'-0" N.T.S.

9'-9"

19'-6"

9'-9"

12"

6'-0"

8'-0"

℄ 6" WALL SLEEVE EL. 67.25

℄ 6" WALL SLEEVE EL. 58.75

1/22 TYP. 4 PLACES

C 22|23

72.75

71.17

69.75

74.25

3'-6"

3'-6"

No. 3

No. 4

61.25

(TYP.)

60.00

58.50

18'-0" DIA.

SLOPE (TYP.)

71.25

65.25

71.25

65.25

B 22|23

71.25

2'-9"

7"

9"

℄ 6" WALL SLEEVE EL. 58.75

FILL RECESS IN EXIST. CHANNEL WALLS & REINF. W/ # 5 @ 12" E.W. SET IN HOLES W/ HILTI ADHESIVE. REMOVE LOOSE GROUT & ROUGHEN EXIST. CONC. FOR BOND. (TYP. 6 PLACES)

℄ 6" WALL SLEEVE EL. 62.50

12'-9"

71.25

EXIST. 9" CONC. SLAB

6"

6'-0"

12"

19'-0"

12"

19'-0"

12"

6'-0"

9'-6"

9'-6"

9'-6"

9'-6"

71.25

65.25

71.25

12"

3'-1"

℄ OPENING FOR 36" FIBERGLASS DUCT EL. 80.25

℄ 4" WALL SLEEVE EL. 57.83

UP

DOWN

CUT 4'-0" SQ. OPENING IN 12" CONC. WALL. BOTTOM OF OPENING EL. 73.25 (TYP. 4 PLACES)

6" WALL PIPE (FLG./P.E., FLG. TAPPED FOR STUDS)

D 22|22

4'-2"

8" 3'-0" 8"

9" 1'-6" 9"

6" WALL PIPE (FLG/FLG. ONE FLG. TAPPED FOR STUDS) INV. EL. 70.05

3'-0"

℄ THICKENER

DETAIL 1/22

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

THICKENER VARIES

EL. 74.25

#5@12" E.W.

6x6 #6/6 WWF

EL. 71.25

6"

COMPACTED FILL

SECTION A 22|22

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

EL. 71.25

8"

#5@12" E.W.

6'-0"

#5 DOWELS. SEE STD. DET. SHT. 123

EXIST. 9" SLAB W/ #4 @ 12" E.W. E.F.

SECTION F 22|22

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

12" VARIES 12"

EL. 74.25

3'-1"

EL. 72.75

6" WALL PIPE INV. EL. 70.05

#5@12" E.W.

3'-0"

12"

TOP OF EXIST. WEIR WALL EL. 68.75

W.S.

THICKENER

#5@12" E.W.

#5@12"

BOT. OF EXIST. CHANNEL EL. 65.25

#5@12"

COMPACTED FILL

SECTION D 22|22

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

UPPER LEVEL PLAN

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

LEGEND

| PLAN | SECTION | |
|---|---|---|
| | | EXISTING |
| | | PROPOSED |

RECORD DRAWING

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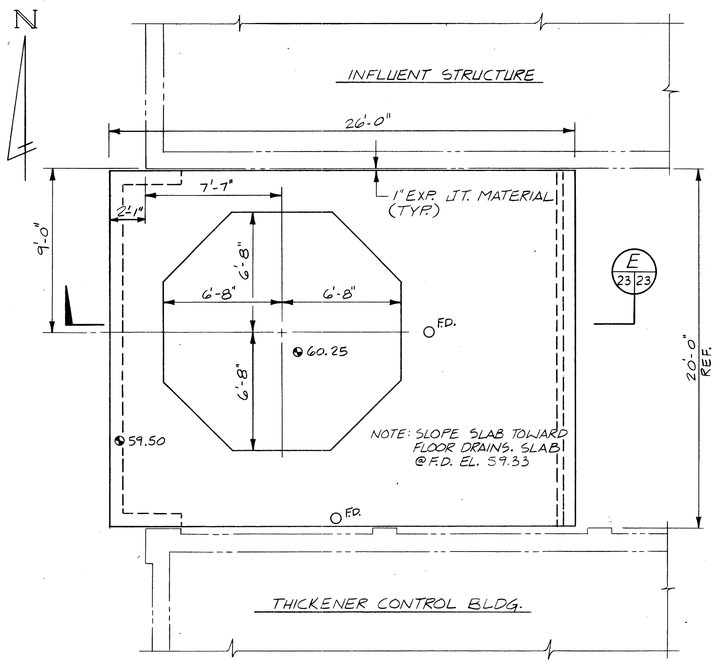
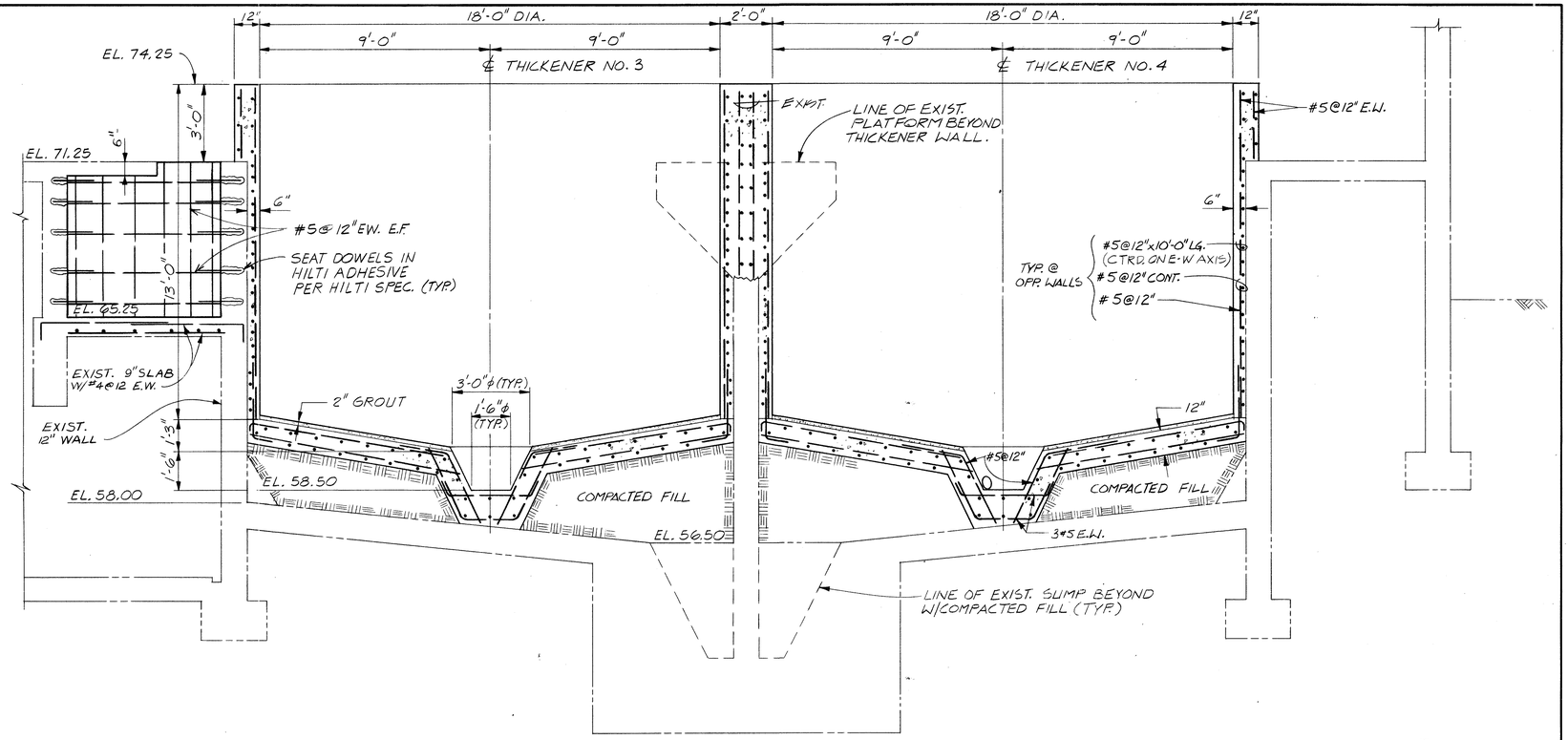
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING INFLUENT STRUCTURE - STRUCTURAL MODIFICATIONS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 22 OF 166
PROJ. NO. 87054-2
FILE NO. 12995

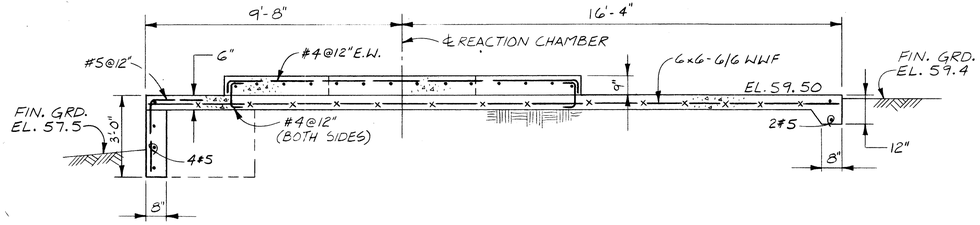
92016



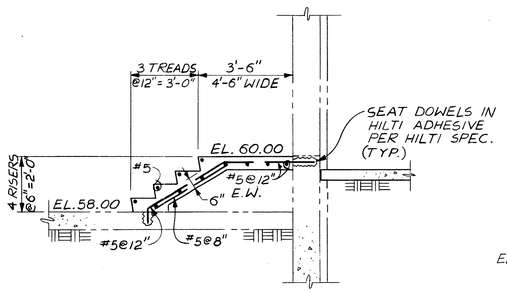

FOUNDATION PLAN - ODOR CONTROL REACTION CHAMBER
SCALE: 1/4" = 1'-0"



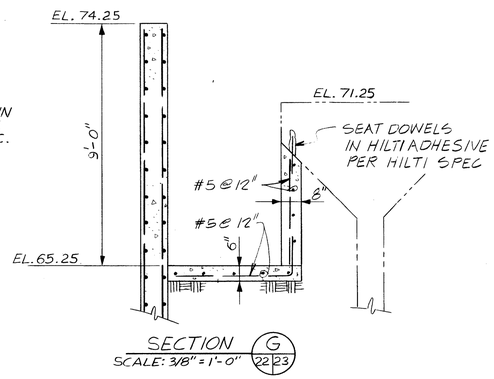

SECTION (B) 22 23
SCALE: 3/8" = 1'-0"



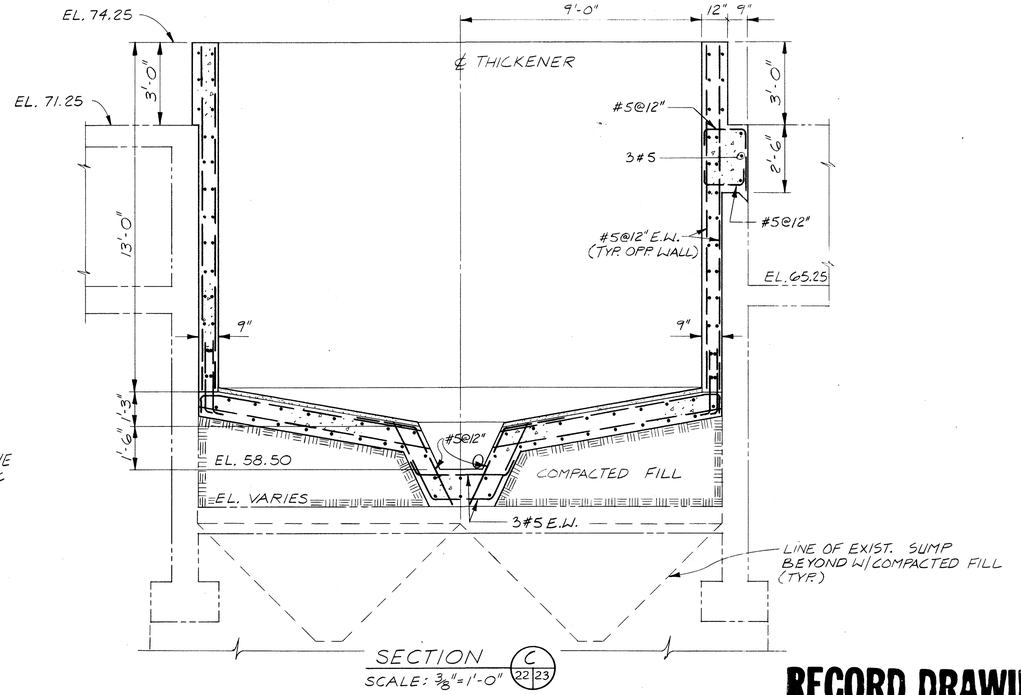

SECTION (E) 23 23
SCALE: 3/8" = 1'-0"




SECTION (H) 28 23
SCALE: 3/8" = 1'-0"




SECTION (G) 22 23
SCALE: 3/8" = 1'-0"




SECTION (C) 22 23
SCALE: 3/8" = 1'-0"

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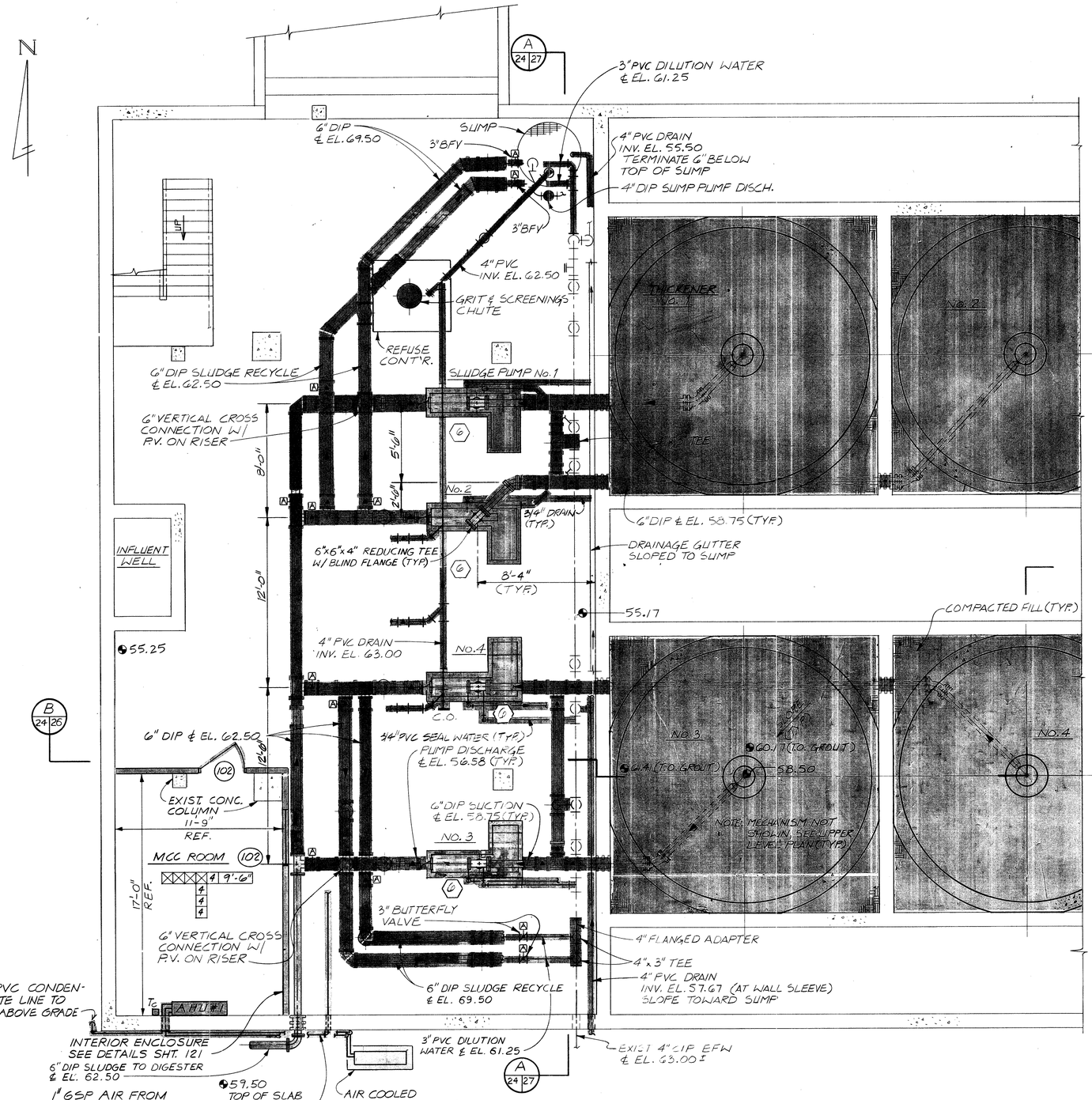
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING INFLUENT STRUCTURE-**
**STRUCTURAL MODIFICATIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 23 OF 166

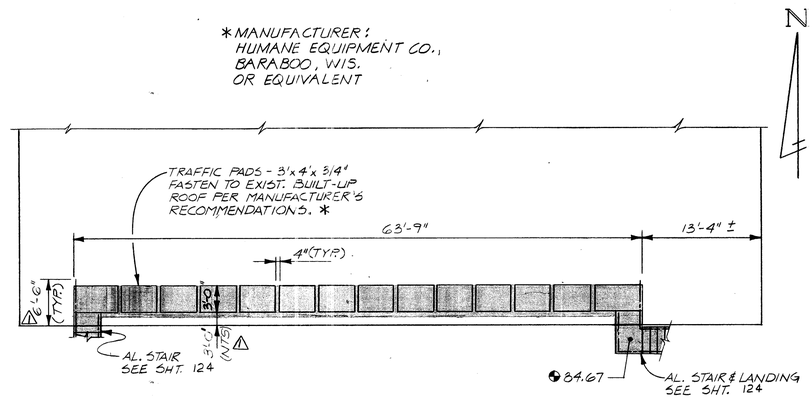
PROJ. NO. 87054-2
FILE NO. 12996

92016



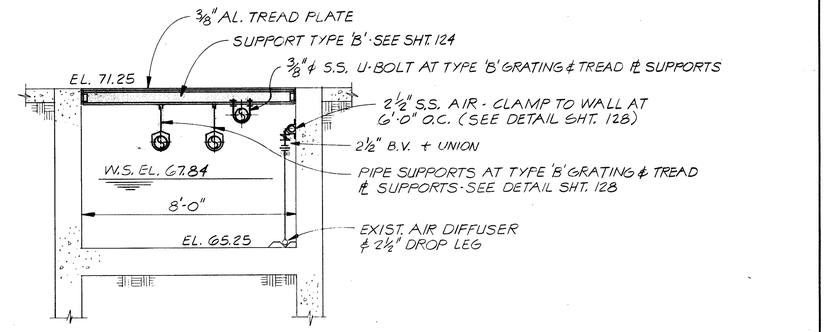

## LOWER LEVEL PLAN

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




## PARTIAL ROOF PLAN

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




## SECTION E (25 24)

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

## NOTES:

1. SEE SHT. 126 FOR PUMP SEAL WATER PIPING DETAIL. CONNECT SEAL WATER LINES TO EXIST. EFW HEADER AT EXIST. TEES W/ 4" BLIND FLANGE TAPPED 3/4".
2. PROVIDE PRESSURE GAUGE ON DISCHARGE PIPES OF (4) SLUDGE PUMPS. GAUGES RATED 0 TO 100 PSI.
3. SOME EXIST. PIPING NOT SHOWN. SEE SHTS. 19-21 FOR EXIST. PIPING DETAILS.
4. VALVES ON OR ABOVE EL. 62.50 SHALL HAVE CHAIN WHEEL OPERATORS.
5. VALVES W/ [A] INDICATE AIR OPERATED CONTROL VALVES.
6. RUN AIR LINE FROM 1" GSP AIR TO EACH OF 12 AIR OPERATED CONTROL VALVES.

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### AIR CONDITIONING EQUIPMENT SCHEDULE

| UNIT# | TYPE | SEER | ARI COOLING BTU/HR | KW HEAT | CFM/ S.P." | O.A. CFM | COMP. F.L.A. 230/1/60 | IND. FAN HP | OUTD. FAN HP | COND. LINE | SUCT. LINE | LIQ. LINE | FILTER HIGH VELOCITY | MODEL NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SPLIT COOLING | 10.6 | 12,600 | - | 390 | - | 8.0 | .5a | .7a | 1" | 5/8" | 3/8" | PERMANENT | MITSUBISHI PK-12AG.US,PU-12AG.US |

NOTES: 1. UNIT SHALL BE CONTROLLED FROM A REMOTE AUTOMATIC CONTROLLER FURNISHED WITH UNIT.
2. INSTALL OUTDOOR FAN SPEED CONTROL.
3. SUCTION LINE AND CONDENSATE LINE SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION WITH JOINTS AND SEAMS SEALED WITH ADHESIVE. EXPOSED INSULATION SHALL BE PAINTED WITH TWO (2) COATS OF WHITE EXTERIOR ARMAFLEX PAINT.

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
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DESIGNED YCL | DRAWN SDO KTB | CHECKED YCL

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING INFLUENT STRUCTURE-
MECHANICAL PLAN
CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 24 OF 166

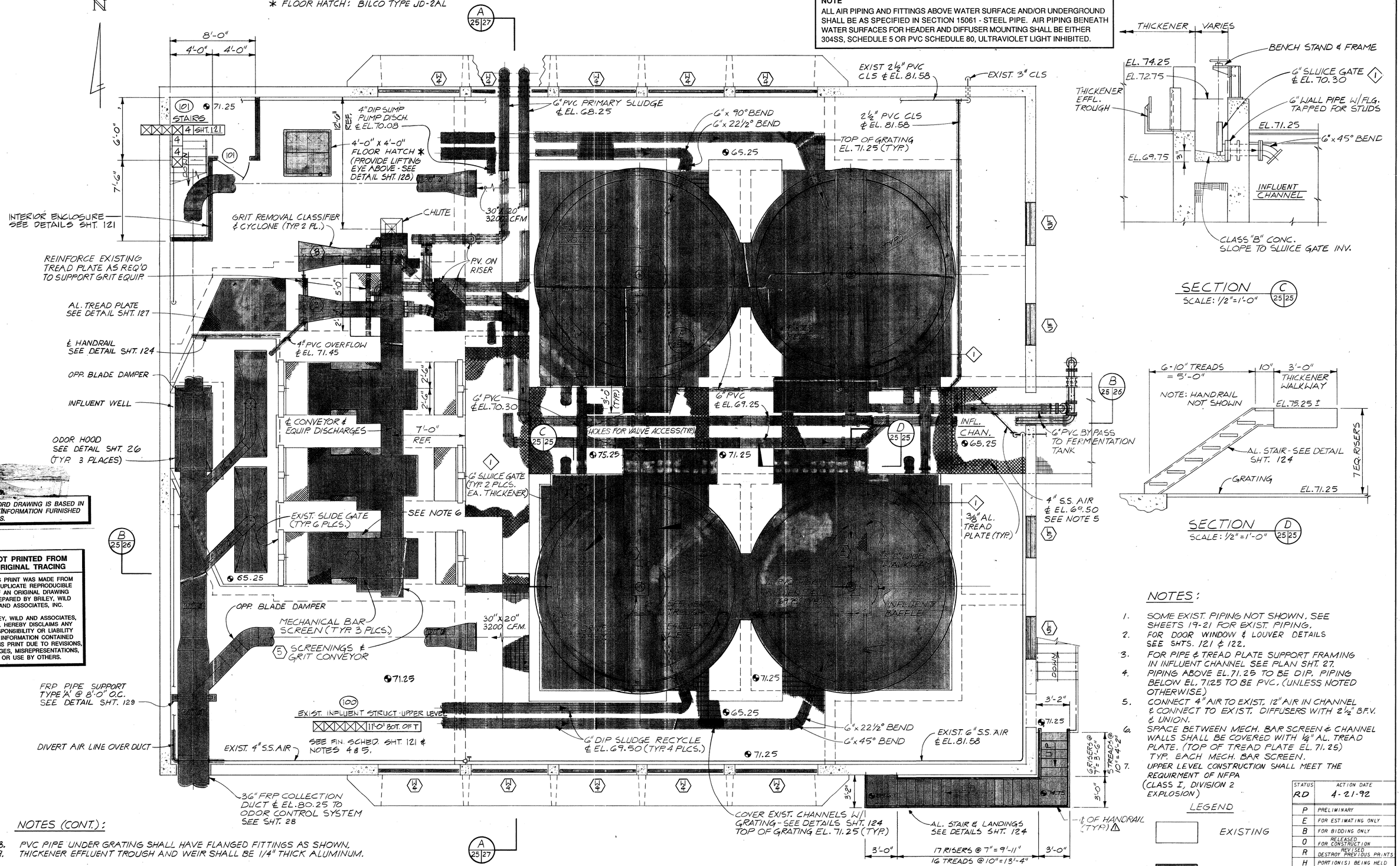
PROJ. NO. 87054-2 | FILE NO. 12997

92016

N

* FLOOR HATCH: BILCO TYPE JD-2AL

**NOTE**
ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061 - STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.




## UPPER LEVEL PLAN
SCALE: 1/4" = 1'-0"




## SECTION C 25|25
SCALE: 1/2" = 1'-0"




## SECTION D 25|25
SCALE: 1/2" = 1'-0"

## NOTES:

1. SOME EXIST. PIPING NOT SHOWN, SEE SHEETS 19-21 FOR EXIST. PIPING.
2. FOR DOOR WINDOW & LOUVER DETAILS SEE SHTS. 121 & 122.
3. FOR PIPE & TREAD PLATE SUPPORT FRAMING IN INFLUENT CHANNEL SEE PLAN SHT. 27.
4. PIPING ABOVE EL. 71.25 TO BE DIP, PIPING BELOW EL. 71.25 TO BE PVC, (UNLESS NOTED OTHERWISE)
5. CONNECT 4" AIR TO EXIST. 12" AIR IN CHANNEL & CONNECT TO EXIST. DIFFUSERS WITH 2½" B.F.V. & UNION.
6. SPACE BETWEEN MECH. BAR SCREEN & CHANNEL WALLS SHALL BE COVERED WITH ¼" AL. TREAD PLATE. (TOP OF TREAD PLATE EL. 71.25) TYP. EACH MECH. BAR SCREEN.
7. UPPER LEVEL CONSTRUCTION SHALL MEET THE REQUIRMENT OF NFPA (CLASS I, DIVISION 2 EXPLOSION)

## NOTES (CONT.):

8. PVC PIPE UNDER GRATING SHALL HAVE FLANGED FITTINGS AS SHOWN.
9. THICKENER EFFLUENT TROUGH AND WEIR SHALL BE 1/4" THICK ALUMINUM.

## LEGEND

EXISTING

PROPOSED

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| STATUS | ACTION DATE |
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| RD | 4-21-92 |

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| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
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| 1 | 7-3-91 | RECORD DRAWING | DMP |
| 2 | 5-30-91 | REVISED PER ADDENDUM #1 | SGO |

DESIGNED YCL | DRAWN SGO KTB | CHECKED YCL

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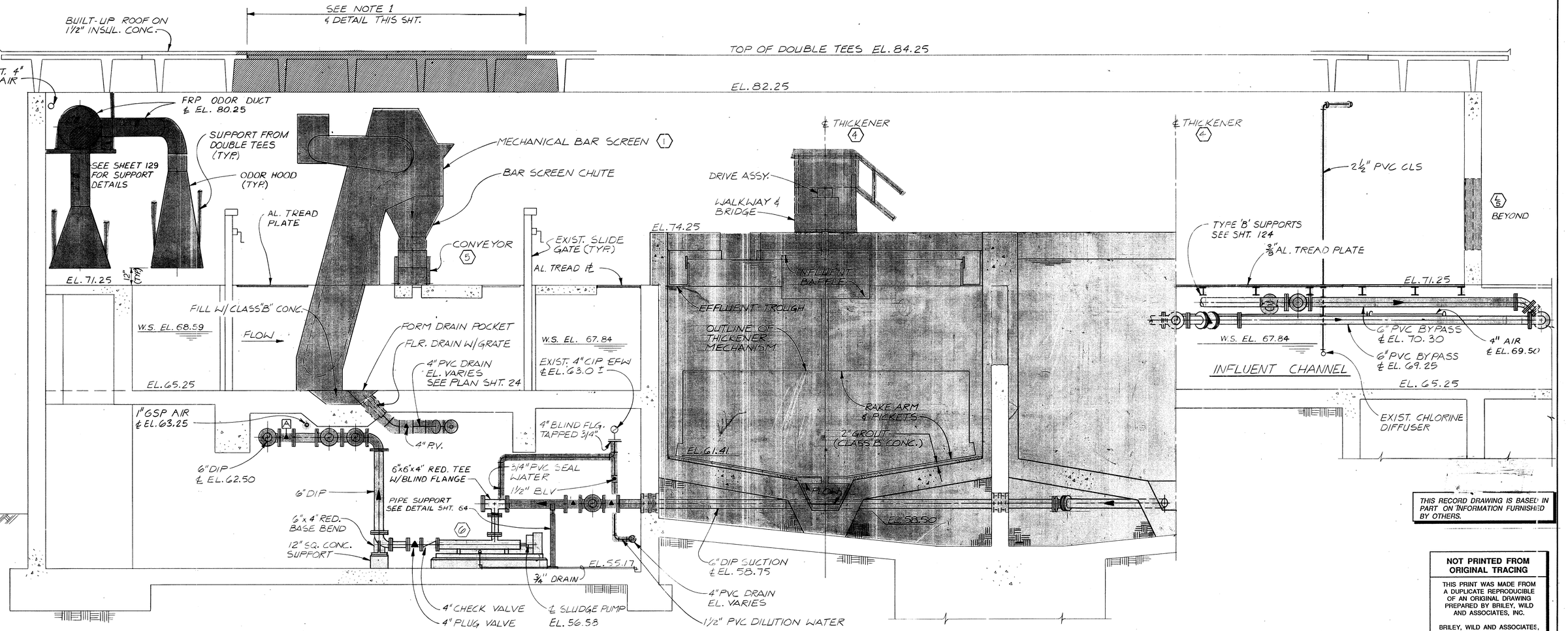
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING INFLUENT STRUCTURE-MECHANICAL PLAN**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 25 OF 166

PROJ. NO. 87054-2 | FILE NO. 12998

92016

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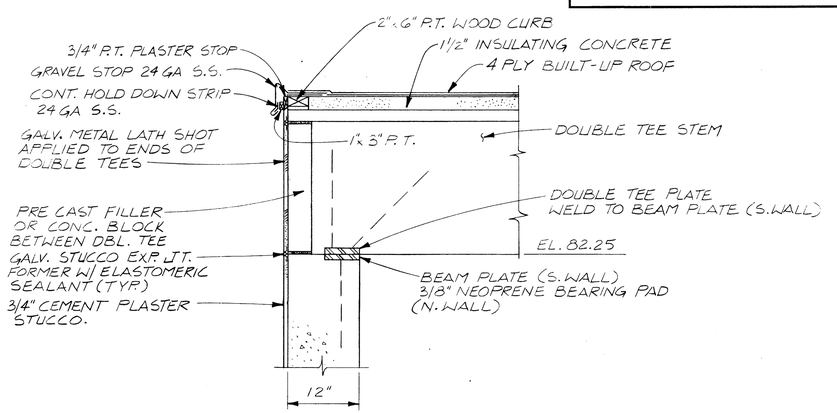
**NOTE**
ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061 - STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

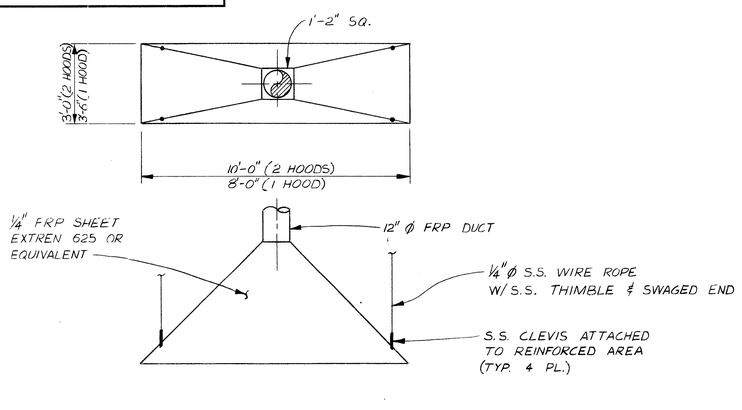
SECTION B (25|26)
SCALE: 3/8" = 1'-0"

NOTES:

1. REMOVE (2) DOUBLE TEES (8'-0" x 2'-0" x 65'-0" LG.) FOR REMOVAL OF EXIST. MECH. EQUIPMENT & INSTALLATION OF NEW MECH. EQUIPMENT. REPLACE TEES & RESTORE ROOF & AFFECTED PORTIONS OF STRUCTURE TO ORIGINAL CONDITION.




EXISTING ROOF DETAIL
SCALE: 1" = 1'-0"




ODOR HOOD DETAIL
NOT TO SCALE

LEGEND

EXISTING

PROPOSED

REMOVAL

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
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| C | CHECK PRINT |
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| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 5-31-89 | REVISED AS PER ADDENDUM NO. 1 | BVB |

DESIGNED YCL
DRAWN KTB SGO
CHECKED YCL

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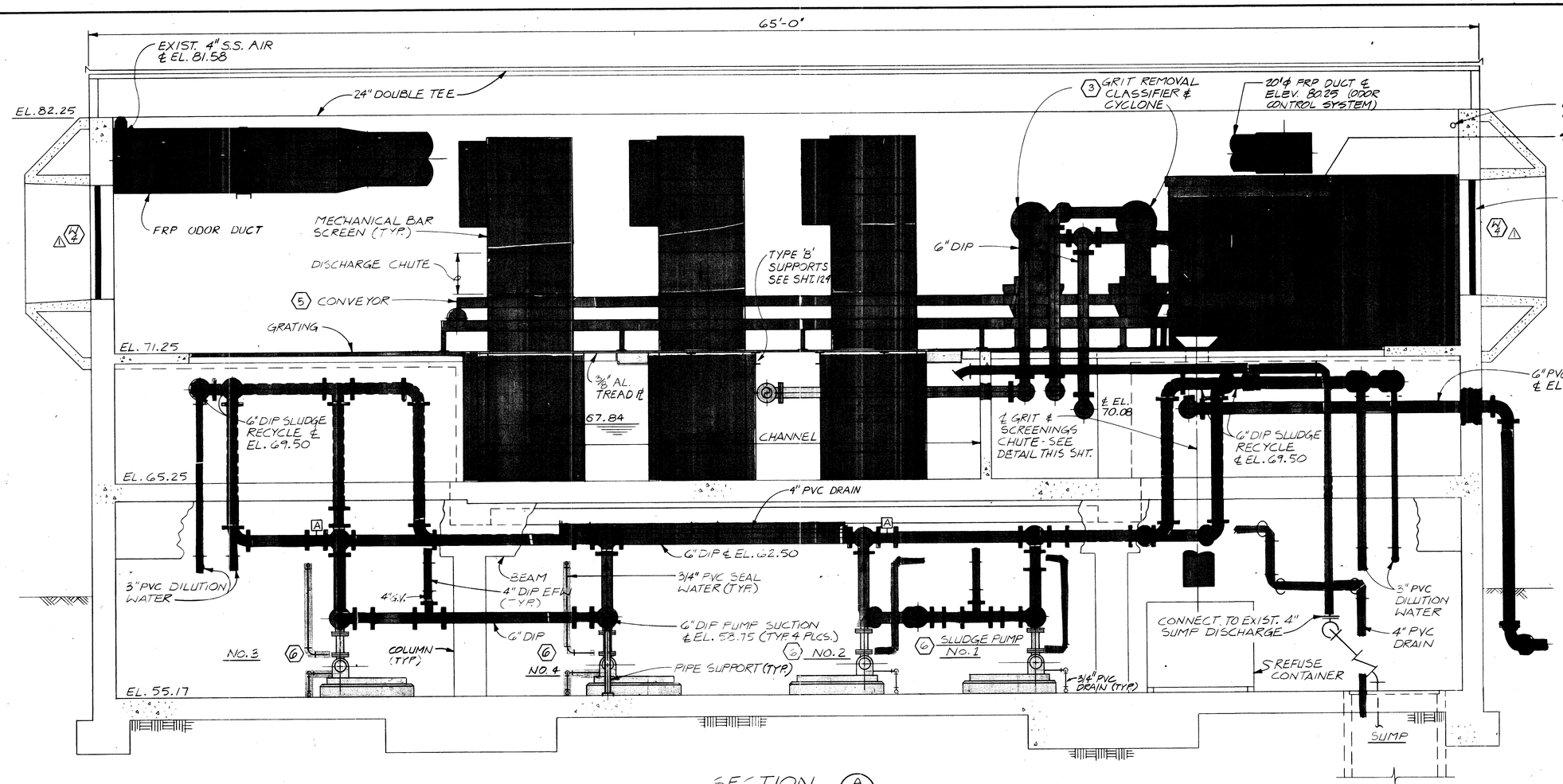
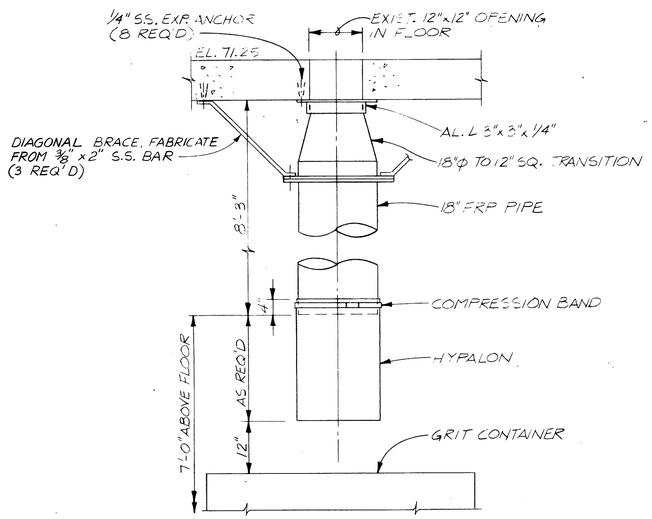
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING INFLUENT STRUCTURE- MECHANICAL SECTIONS & DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 26 OF 166
PROJ. NO. 87054-2
FILE NO. 12999

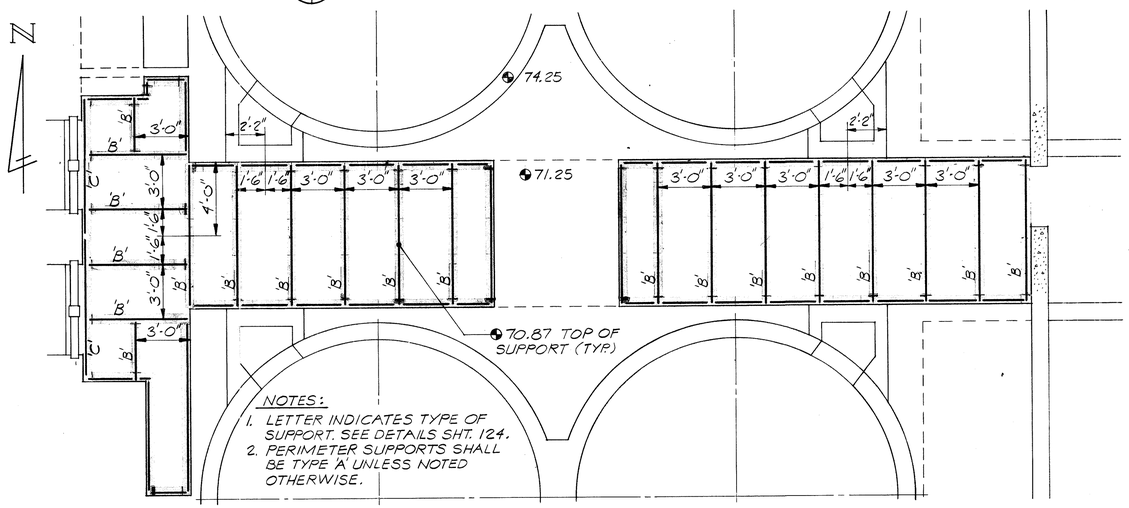
92016




GRIT & SCREENINGS CHUTE DETAIL
SCALE: 3/4" = 1'-0"

SECTION A 25 27
SCALE: 3/8" = 1'-0"




PLAN - INFLUENT CHANNEL PIPE & TREAD PLATE SUPPORT FRAMING
SCALE: ¼" = 1'-0"

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# RECORD DRAWING

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| REV. NO. | DATE | REVISION | BY |
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| 2 | 5-31-89 | REVISED PER ADDENDUM #2 | SGO |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | SGO |

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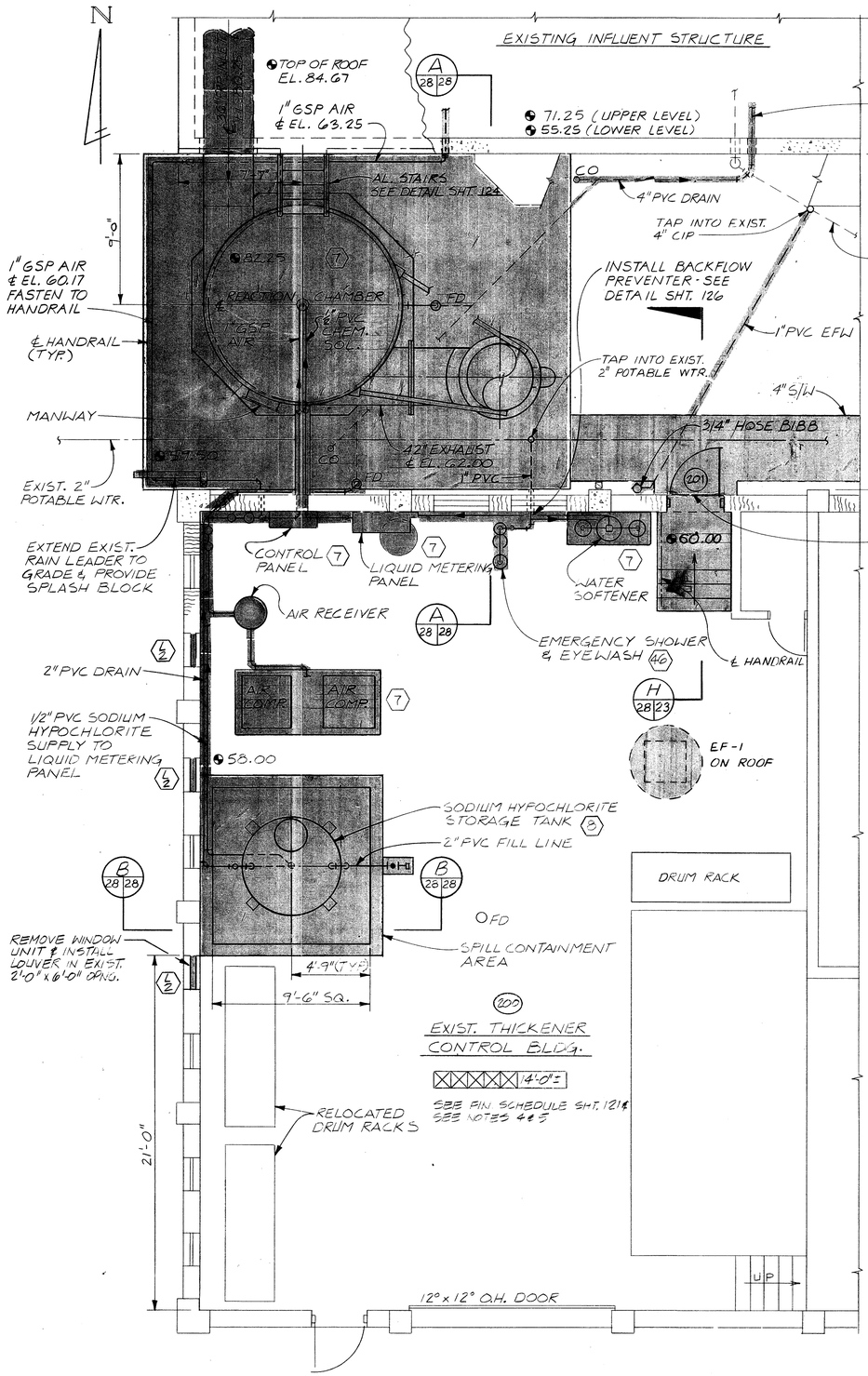
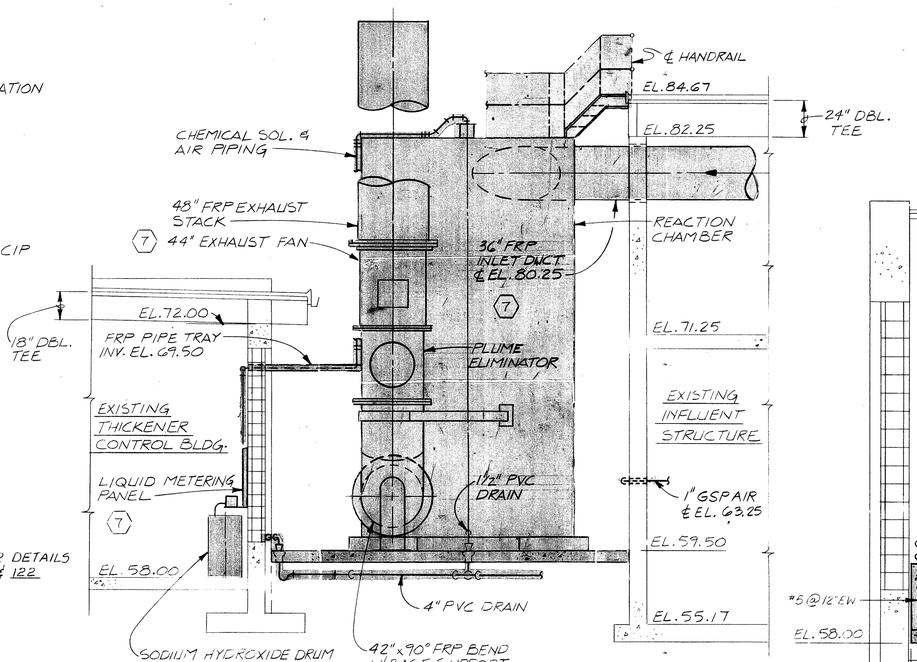
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING INFLUENT STRUCTURE-**
**MECHANICAL SECTIONS & DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 27 OF 166
PROJ. NO. 87054-2
FILE NO. 13000

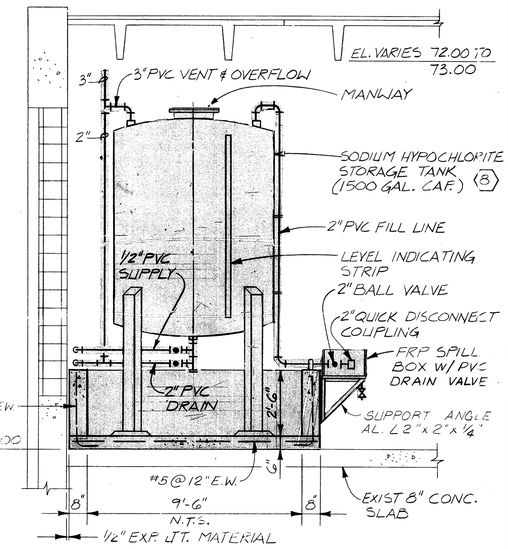
92016




PARTIAL PLAN AT INFLUENT STRUCT. & THICKENER CONTROL BLDG.
SCALE: 1/4" = 1'-0"



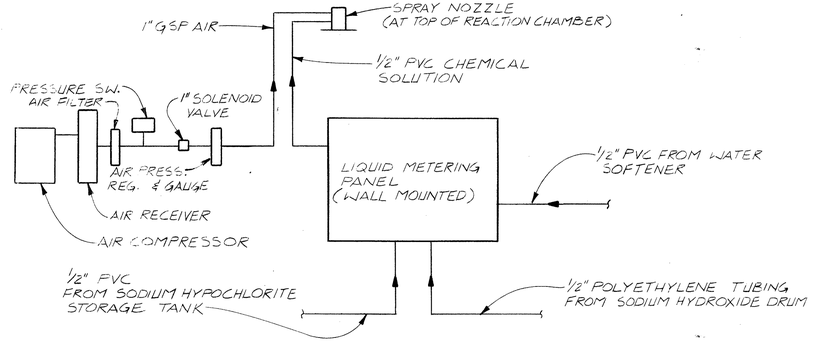

SECTION (A) 28|28
SCALE: 1/4" = 1'-0"




SECTION (B) 28|28
SCALE: 3/8" = 1'-0"

NOTES:

1. REACTION CHAMBER EXHAUST DUCT WITH EXHAUST FAN TO BE SUPPORTED FROM FOUNDATION SLAB AND BRACED ACCORDING TO ODOR CONTROL SYSTEM MANUFACTURER'S RECOMENDATIONS.
2. FOR FOUNDATION PLAN SEE SHT. 23




ODOR CONTROL SYSTEM SCHEMATIC
SCALE: NONE

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| | |
| RD | RECORD DRAWING |

| FAN SCHEDULE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | LOCATION | DUTY | CFM | RPM | S.P." | H.P. | DRIVE | VOLT | MFG. MODEL NO. | SONES | CONTROL | ACCESSORIES |
| EF-1 | THICKENER CONTROL BLDG. | EXHAUST | 5003 | 572 | 1/2 | 3/4 | BD | 115/1 | SWARTWOUT 30FA38 | - | WALL THERMOSTAT | METAL PARTS ENCAPSULATED W/PVC, FS SERIES E 8" CURB |

NOTE: 1. EF-1 SHALL BE FURNISHED WITH PREWIRED DISC. SWITCH; 20"-30" x 30" 18 GA. ALUMINUM DUCT; 30" x 30" 3/4 #16 S.S. TYPE 304 STANDARD EXP. METAL GRILLE; BIRD SCREEN.
2. THERMOSTAT SHALL BE HONEYWELL MODEL T631C1053 COOLING THERMOSTAT.
3. FAN MOTOR SHALL BE TOTALLY ENCLOSED FAN COOLED.

LEGEND
EXISTING
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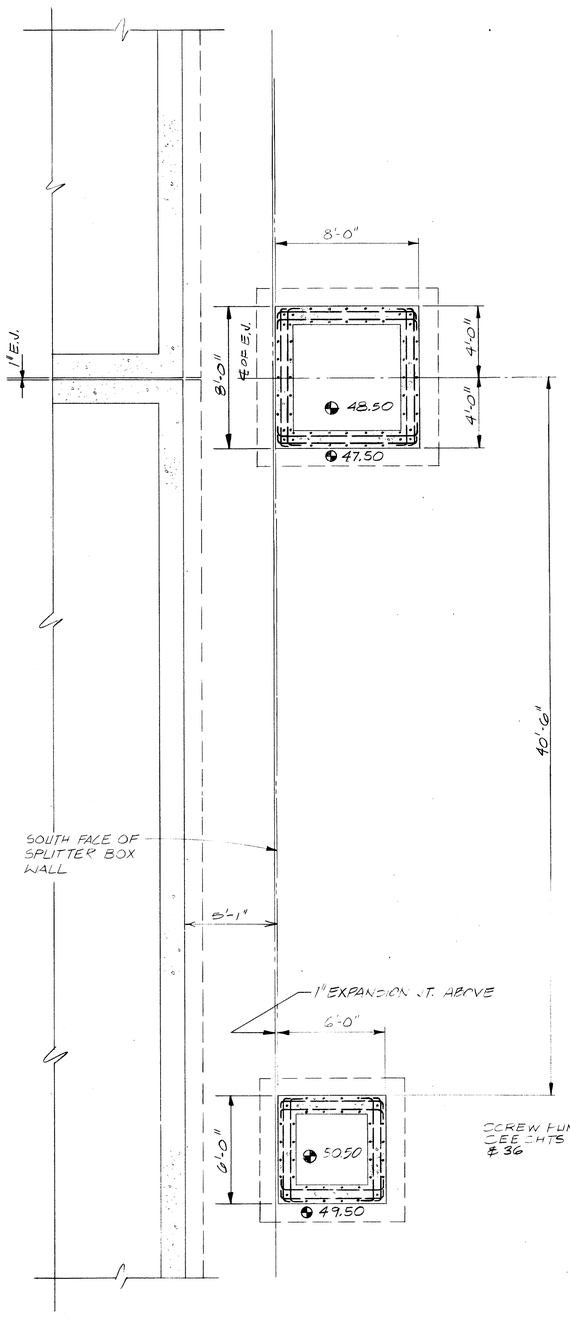
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING INFLUENT STRUCTURE -
ODOR CONTROL SYSTEM
CLEARWATER, FLORIDA

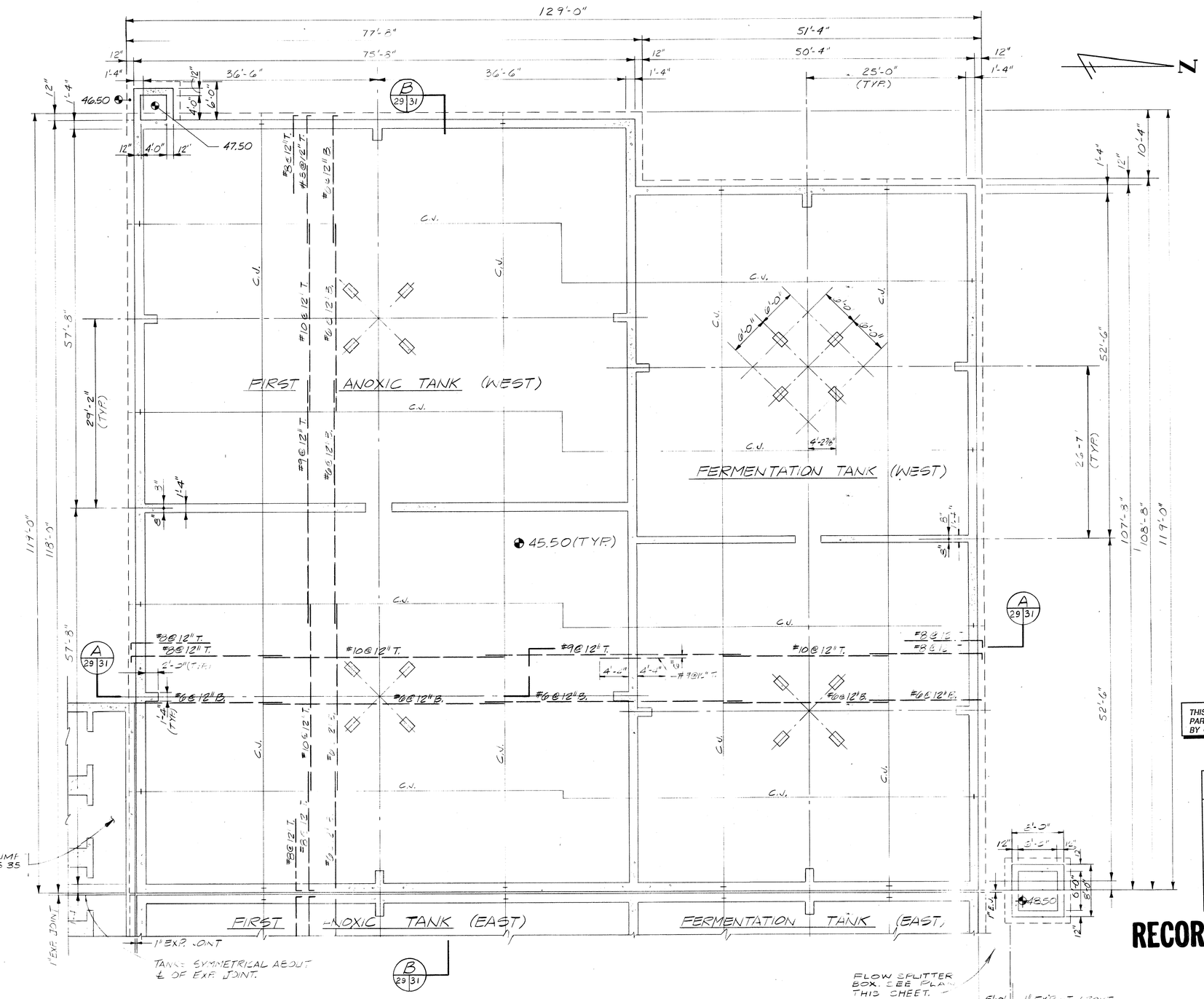
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 28 OF 166
PROJ. NO. 87054-2
FILE NO. 13001

92016




## FLOW SPLITTER BOX-FOUNDATION PLAN

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




## BASE SLAB PLAN

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

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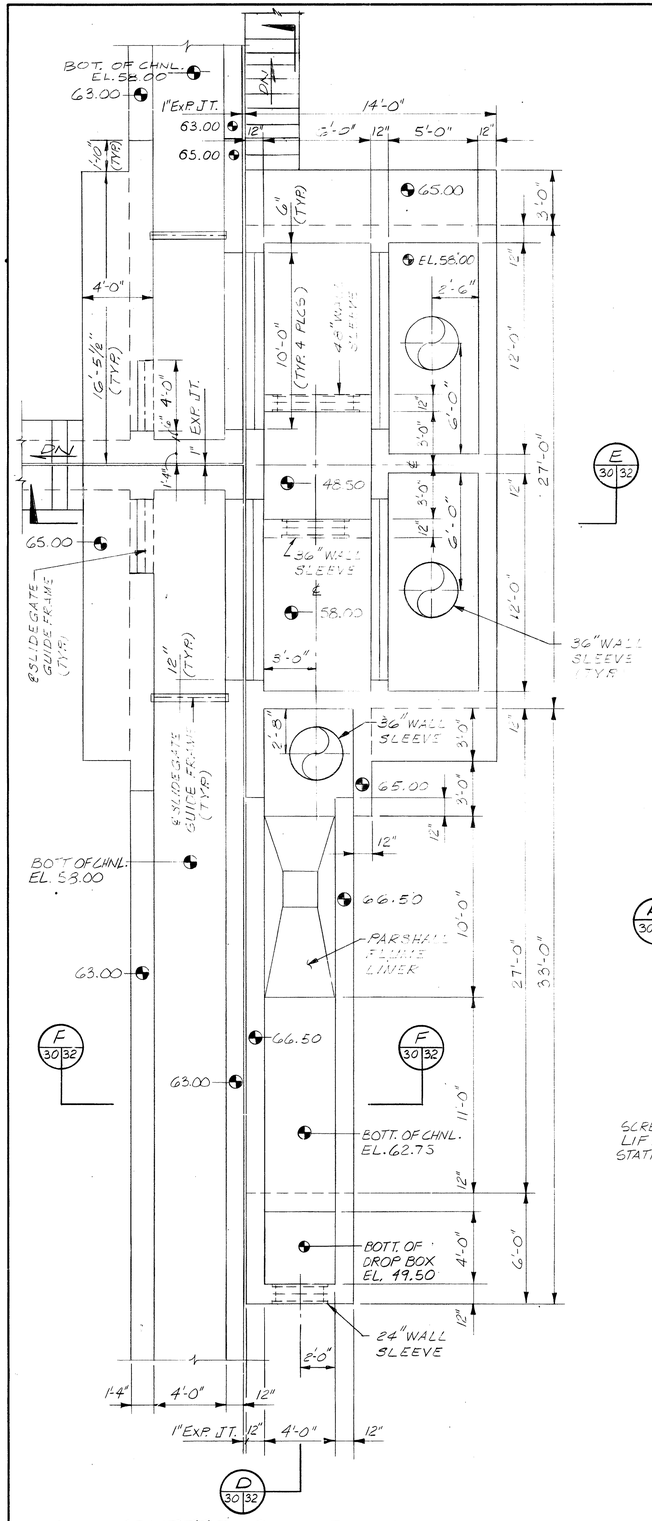
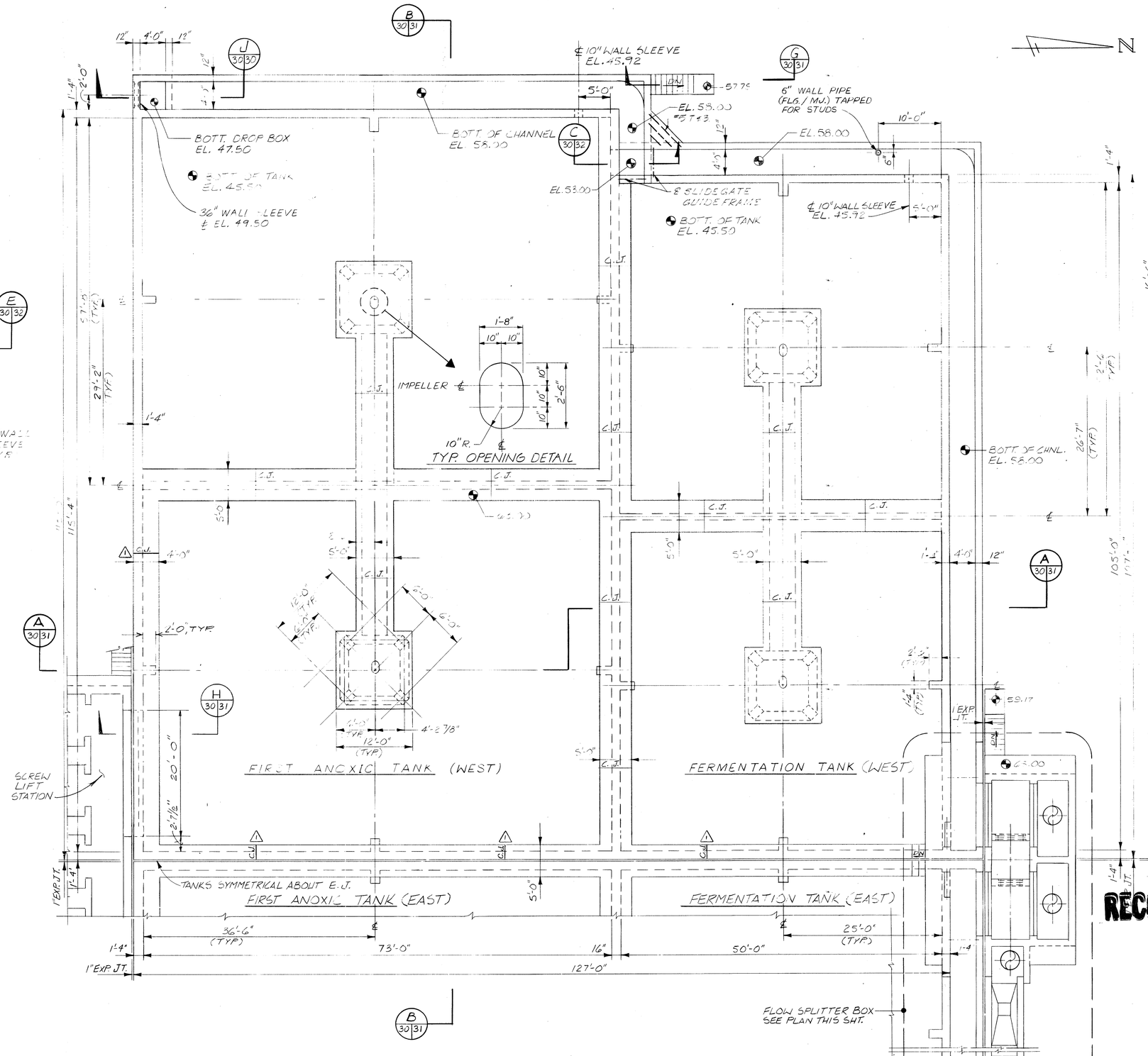
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FERMENTATION & FIRST ANOXIC TANKS-STRUCTURAL FOUNDATION PLAN**
CLEARWATER, FLORIDA

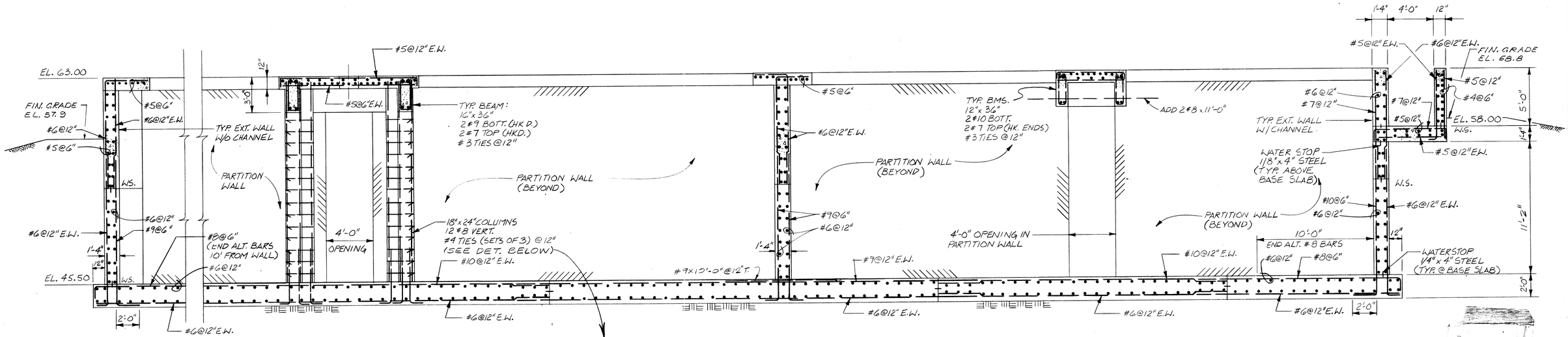
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 29 OF 166
PROJ. NO. 87054-2
FILE NO. 13002

92016




FLOW SPLITTER BOX - PLAN
SCALE: 1/4"=1'-0"


B 30|31
J 30|30
12"
4'-0"
12"
℄ 10" WALL SLEEVE EL. 45.92
G 30|31
6" WALL PIPE (FLG./ MJ.) TAPPED FOR STUDS
EL. 58.00
10'-0"
5'-0"
EL. 58.00
#5T@3"
12"
4'-0"
EL. 53.00
℄ SLIDE GATE GUIDE FRAME
BOTT. OF TANK EL. 45.50
℄ 10" WALL SLEEVE EL. 45.92
5'-0"
BOTT. DROP BOX EL. 47.50
BOTT. OF TANK EL. 45.50
36" WALL SLEEVE ℄ EL. 49.50
BOTT. OF CHANNEL EL. 58.00
C 30|32
C.J.
5'-7½" (TYP.)
29'-2" (TYP.)
1'-4"
IMPELLER ℄
1'-8"
10" 10"
10"
10"
2'-6"
10" R.
℄
TYP. OPENING DETAIL
C.J.
C.J.
C.J.
C.J.
C.J.
5'-0"
4'-0"
5'-0"
5'-0"
5'-0"
1'-4"
4'-0"
12"
A 30|31
105'-0"
117'-4"
C.J.
C.J.
C.J.
C.J.
C.J.

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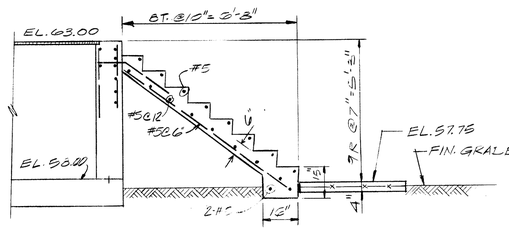
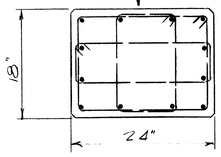
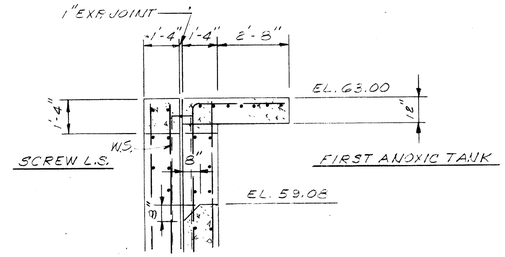


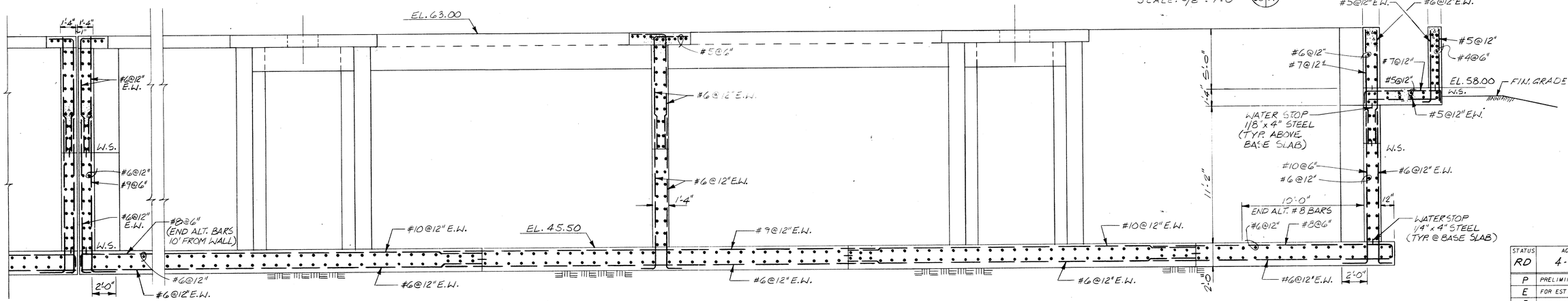

SECTION G
3/8" = 1'-0"
30 31




SECTION A
SCALE: 1/4" = 1'-0"
29 30 31




SECTION H
SCALE: 3/8" = 1'-0"
30 31




SECTION B
SCALE: 1/4" = 1'-0"
29 30 31

**RECORD DRAWING**

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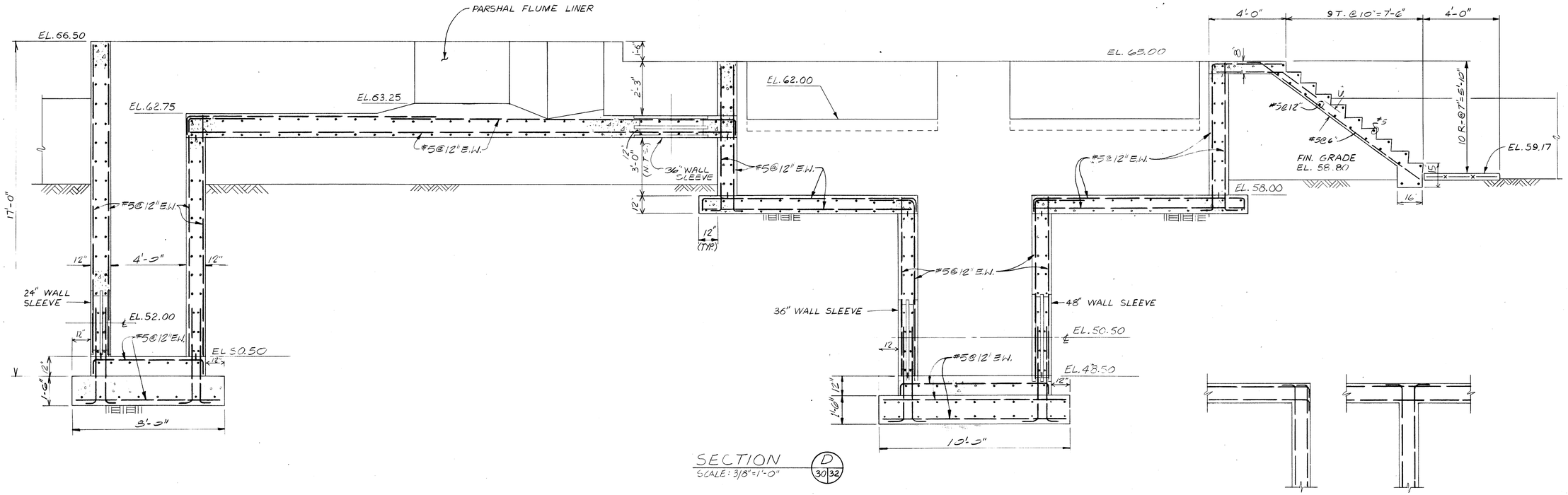
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FERMENTATION & FIRST ANOXIC TANKS**
**STRUCTURAL SECTIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 31 OF 166

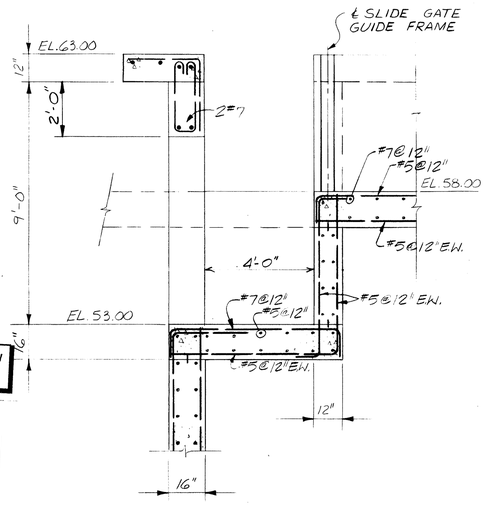
PROJ. NO. 87054-2 | FILE NO. 13004

92016

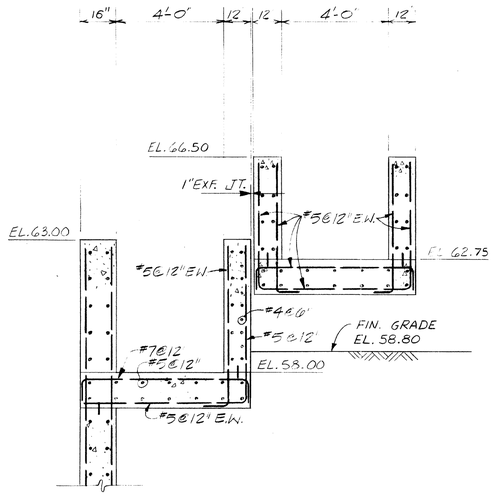



SECTION (D 30/32)
SCALE: 3/8"=1'-0"

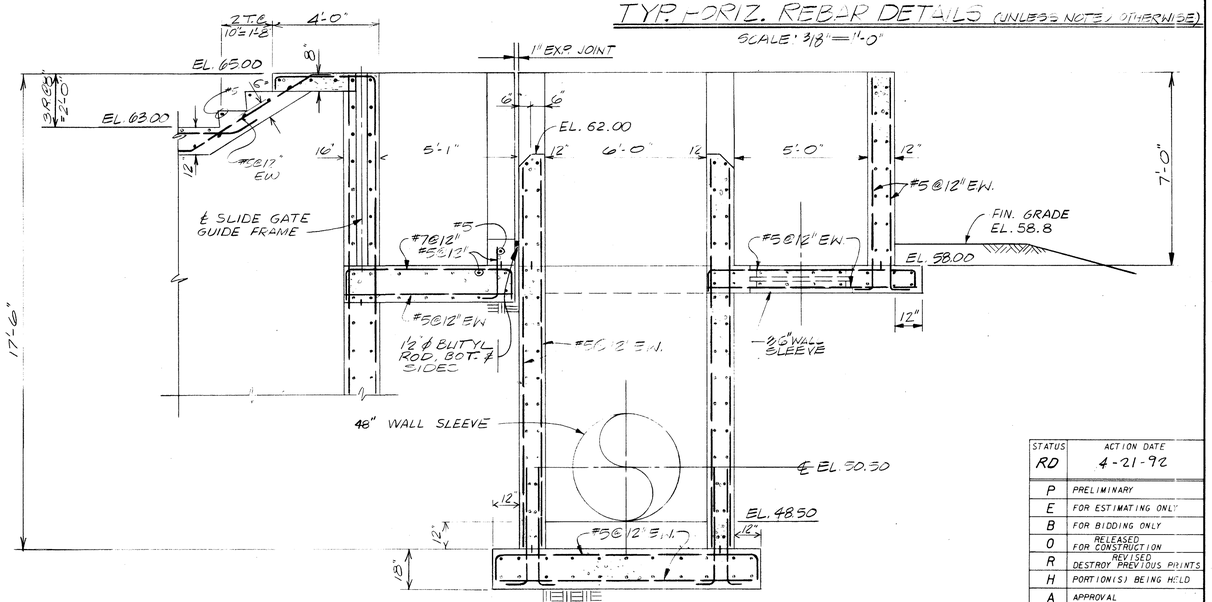
TYP. HORIZ. REBAR DETAILS (UNLESS NOTED OTHERWISE)
SCALE: 3/8"=1'-0"




SECTION (C 30/32)
SCALE: 3/8"=1'-0"




SECTION (F 30/32)
SCALE: 3/8"=1'-0"




SECTION (E 30/32)
SCALE 3/8"=1'-0"

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| B | FOR BIDDING ONLY |
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| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

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DESIGNED JTS
DRAWN RMO BVB
CHECKED SRS

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CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FERMENTATION & FIRST ANOXIC TANKS-STRUCTURAL SECTIONS & DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 32 OF 166

PROJ. NO. 87054-2
FILE NO. 13005

92016

48" DIP ℄ EL. 50.50

BY-PASS CHNL.

1½" PVC EFW

63.00

HOSE BIBB 65.00

GRATING SEE DETAILS SHT. 124 (TYP.)

REMOVABLE HANDRAIL (T.Y.P.) & HANDRAIL (TYP.) SEE DETAILS SHT. 124

TYPE 'B' GRATING SUPPORT SEE DET. SHT. 124 (TYP.)

WEIR GATE-SEE DETAIL SHT. 128 (TYP. 2 PL.)

58.00

TYPE 'C' GRATING SUPPORT SEE DETAIL SHT. 124 (TYP.)

D.N.

℄ FERMENTATION TANKS

48.50

58.00

4'-0" x 4'-0" x ¼" AL. PLATE W/ (4) ⅜" ϕ S.S. EXP. ANCHORS & NEOPRENE GASKET (TYP. 2 PL.)

WEIR GATE INSTALLED IN CLOSED POSITION & WITHOUT OPERATING MECHANISM SEE DETAIL SHT. 128 (TYP. 2 PL.)

36" DIP ℄ EL. 50.50

65.00

SLIDE GATE (TYP. 4 PL.)

AL. GRATING STAIR TREAD SEE DETAIL SHT. 124

2' THROAT WIDTH PARSHALL FLUME

63.00

66.50

BY-PASS CHANNEL 58.00

RAS METERING CHANNEL 62.75

24" DIP RAS ℄ EL. 52.00

## FLOW SPLITTER BOX PLAN

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

36" DIP OXIDATION REACTOR RECYCLE ℄ EL. 49.50

10" PLUG VALVE W/ VALVE BOX

8'-0"

TOP OF GRATING EL. 63.00
BOTT. OF CHANNEL EL. 58.00

1½" PVC EFW (TYP.)

SEE SHT. 34 FOR DETAILS (TYP.)

SUBMERGED TURBINE MIXER (TYP. 4 PLCS.)

℄ HANDRAIL (TYP.) SEE DETAILS SHT. 124

HOSE BIBB (TYP.)

63.00

NOTE:

SUBMERGED TURBINE MIXERS SHALL BE CLOCKWISE ROTATION FOR WEST TRAIN & COUNTER-CLOCKWISE ROTATION FOR EAST TRAIN.

58.33

SCREW LIFT STATION

FIRST ANOXIC TANK (WEST)

BOTTOM OF TANK EL. 45.50

TANKS SYMMETRICAL ABOUT EXP. JT.

FIRST ANOXIC TANK (EAST)

## PLAN

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

10" DRAIN LINE ℄ EL. 45.92

WYE W/C.O.

D.N.

57.75

6" DRAIN

1½" PVC EFW

SLIDE GATES SEE DETAILS SHT. 125

6" MUD VALVE W/ OFFSET FLOOR STAND CLOW F-3075 OR EQUIV.

GRATING TYPICAL THROUGHOUT SEE SHT. 124 FOR SUPPORT DETAILS.

TOP OF GRATING EL. 63.00
BOTT. OF CHANNEL EL. 58.00

48" DIP FROM PRIMARY CLARIFIERS

59.17

65.00

FERMENTATION TANK (WEST)

BOTTOM OF TANK EL. 45.50

1½" PVC EFW

63.00

FERMENTATION TANK (EAST)

FLOW SPLITTER BOX SEE PLAN THIS SHT.

24" DIP RAS FROM FINAL CLARIFIER PUMP HOUSES

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2T @ 9" = 1'-6"

GRATING EL. 65.00

3 RISERS @ 12" = 2'-0"

EL. 63.00

GRATING

AL. STAIR TREAD - SEE DETAIL SHT. 124

## SECTION D (33|33)

SCALE: ⅜" = 1'-0"

**RECORD DRAWING**

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|---|---|
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DRAWN SGO RSG
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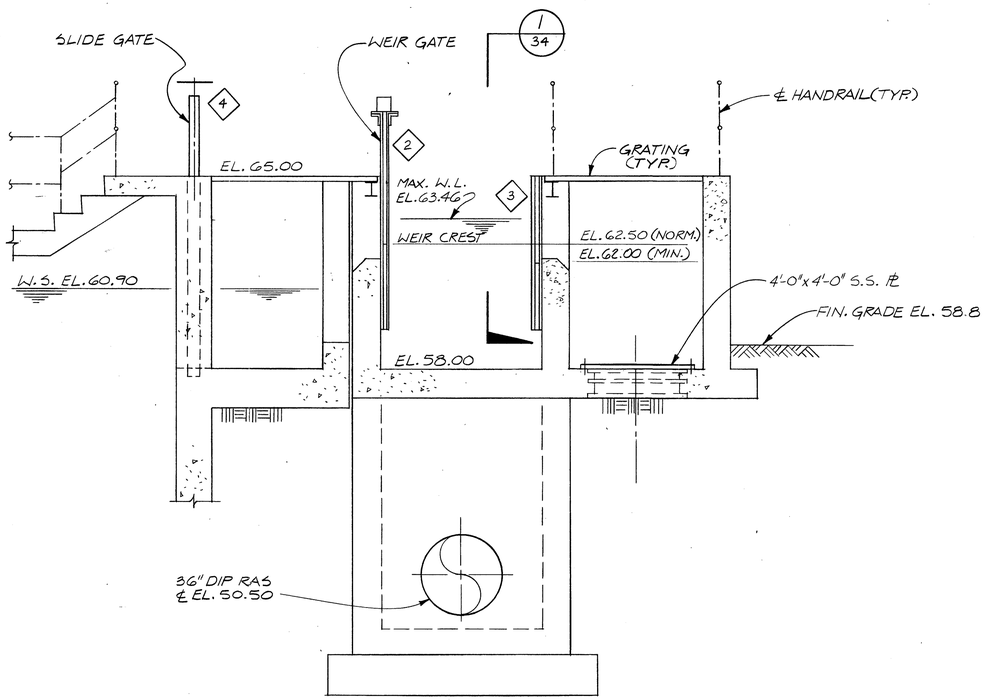
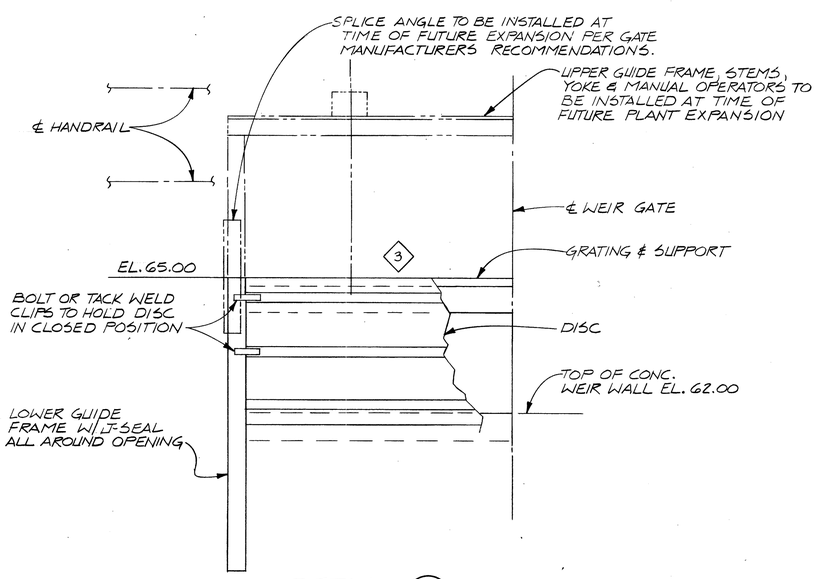
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FERMENTATION & FIRST ANOXIC TANKS**
**MECHANICAL PLAN**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 33 OF 166
PROJ. NO. 87054-2
FILE NO. 13006

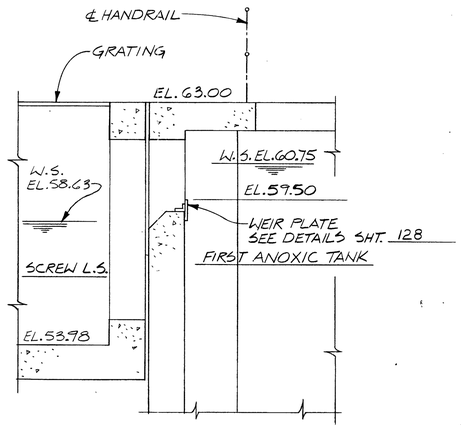
92016




SECTION A (33|34)
SCALE: 3/8"=1'-0"

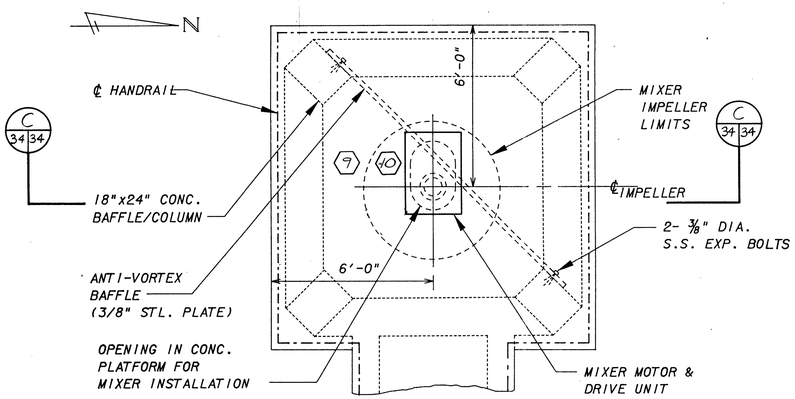



DETAIL 1 (34)
N.T.S.

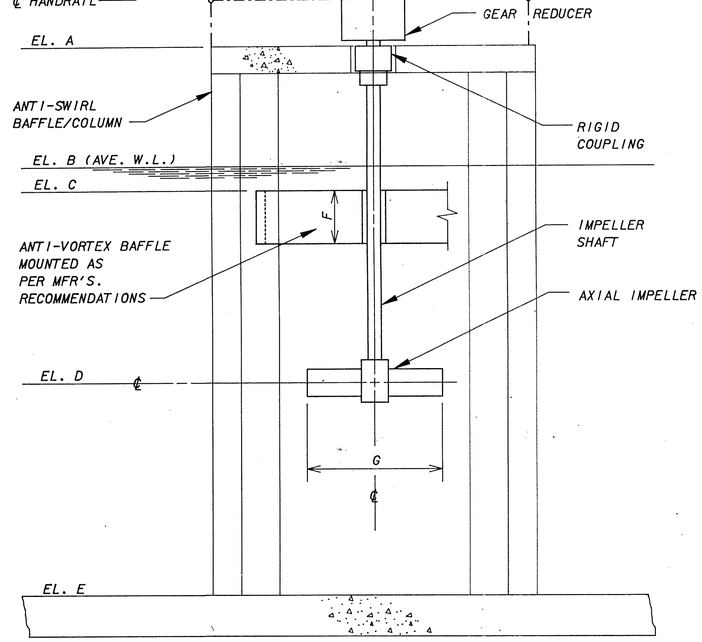



SECTION B (33|34)
SCALE: 3/8"=1'-0"

| SUBMERGED TURBINE MIXER SCHEDULE | | | |
|---|---|---|---|
| | FERMENTATION TANKS | FIRST ANOXIC TANKS | |
| NO. OF UNITS | 4 | 4 | |
| MOTOR HP | 15 | 25 | |
| ELEV. A | 63.00 | 63.00 | |
| ELEV. B | 60.55 | 60.46 | |
| ELEV. C | 59.55 | 59.46 | |
| ELEV. D | 53.03 | 52.98 | |
| ELEV. E | 45.50 | 45.50 | |
| DIMENSION F (FT) | 1.5 | 2 | |
| DIMENSION G (FT) | 4.2 | 5 | |




SUBMERGED TURBINE MIXER - PLAN
SCALE: 3/8"=1'-0"




SECTION C (34|34)
SCALE: 3/8"=1'-0"

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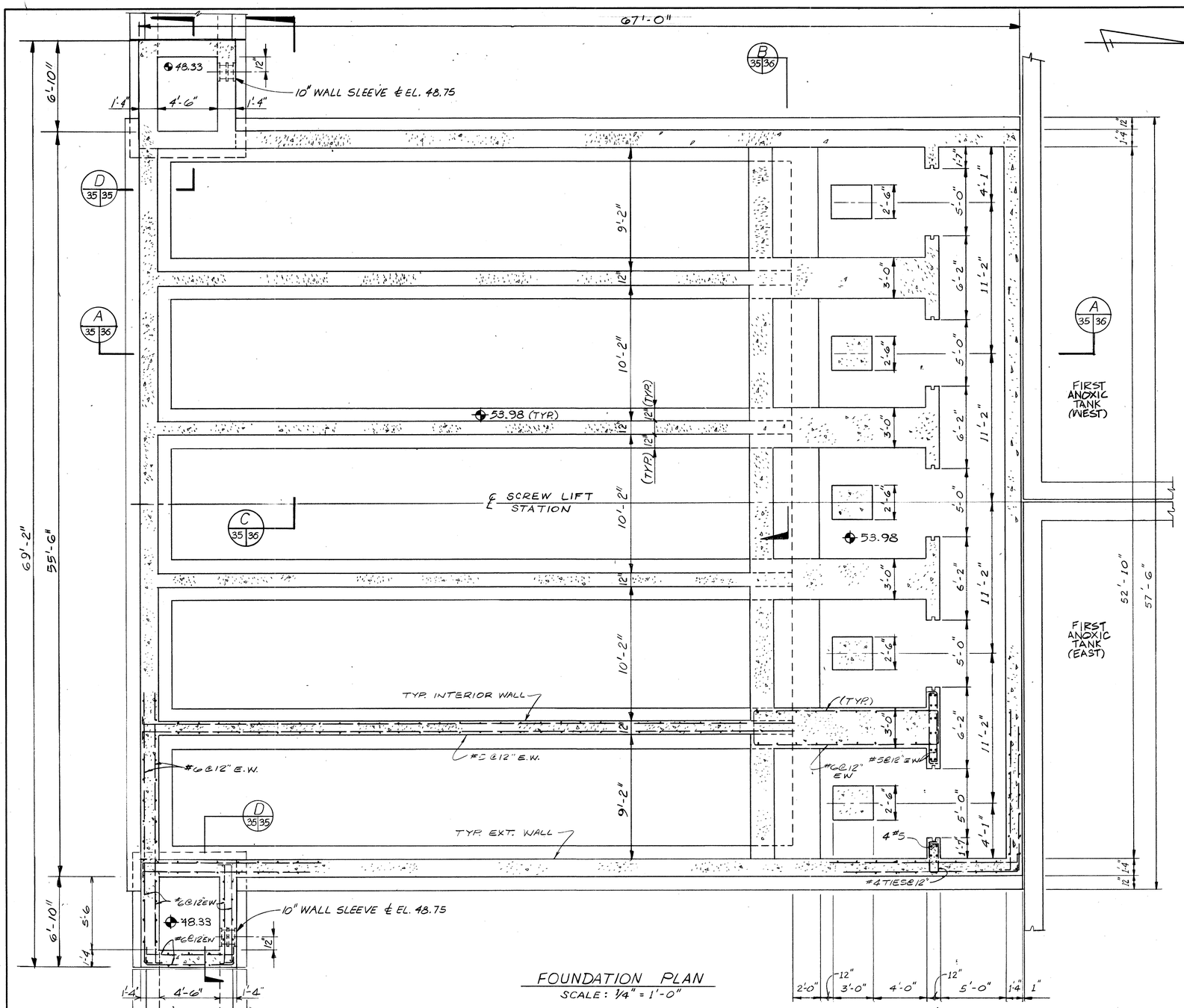
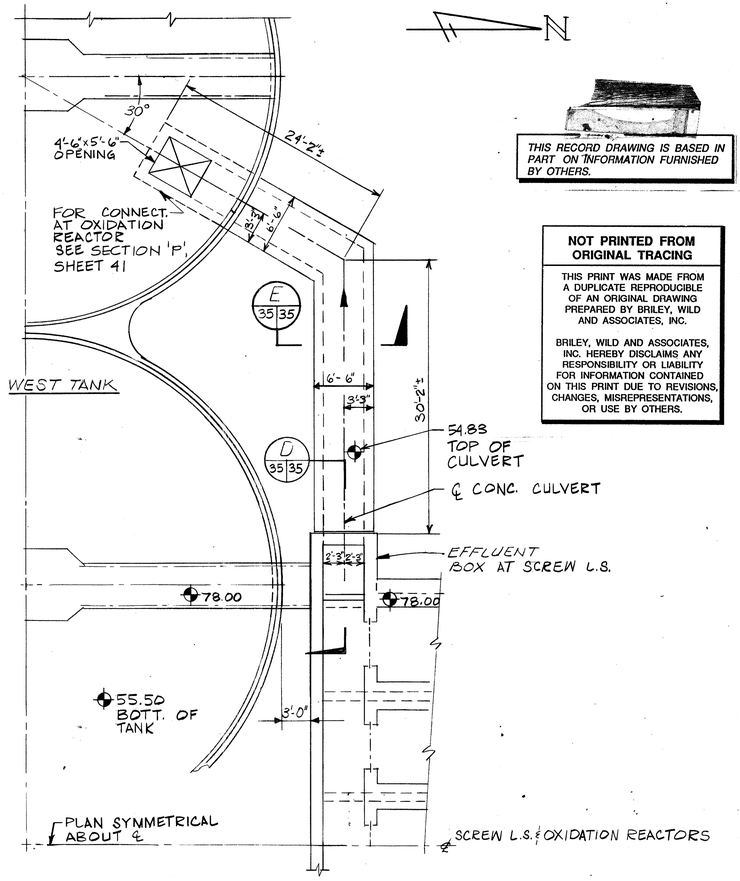
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
FERMENTATION & FIRST ANOXIC TANKS
MECHANICAL SECTIONS & DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 34 OF 166
PROJ. NO. 87054-2
FILE NO. 13007

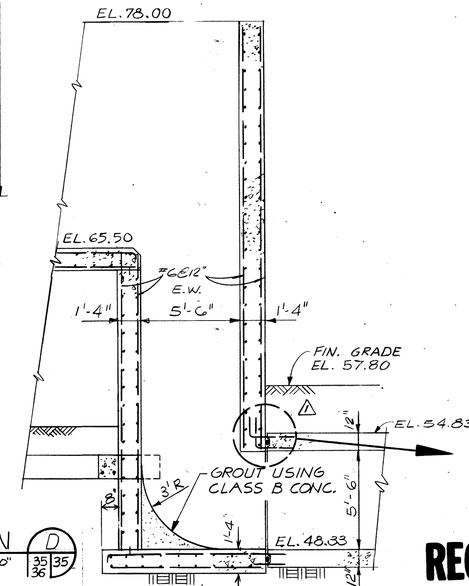
92016



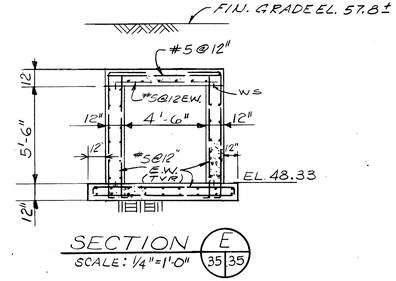

FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



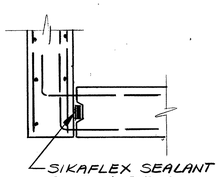

PARTIAL PLAN AT SCREW LIFT STA. & OXIDATION REACTOR
SCALE: 1/8" = 1'-0"




SECTION D 35 35 36
SCALE: 1/4" = 1'-0"




SECTION E 35 35
SCALE: 1/4" = 1'-0"



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| 1 | 7-3-91 | RECORD DRAWING | GLB |

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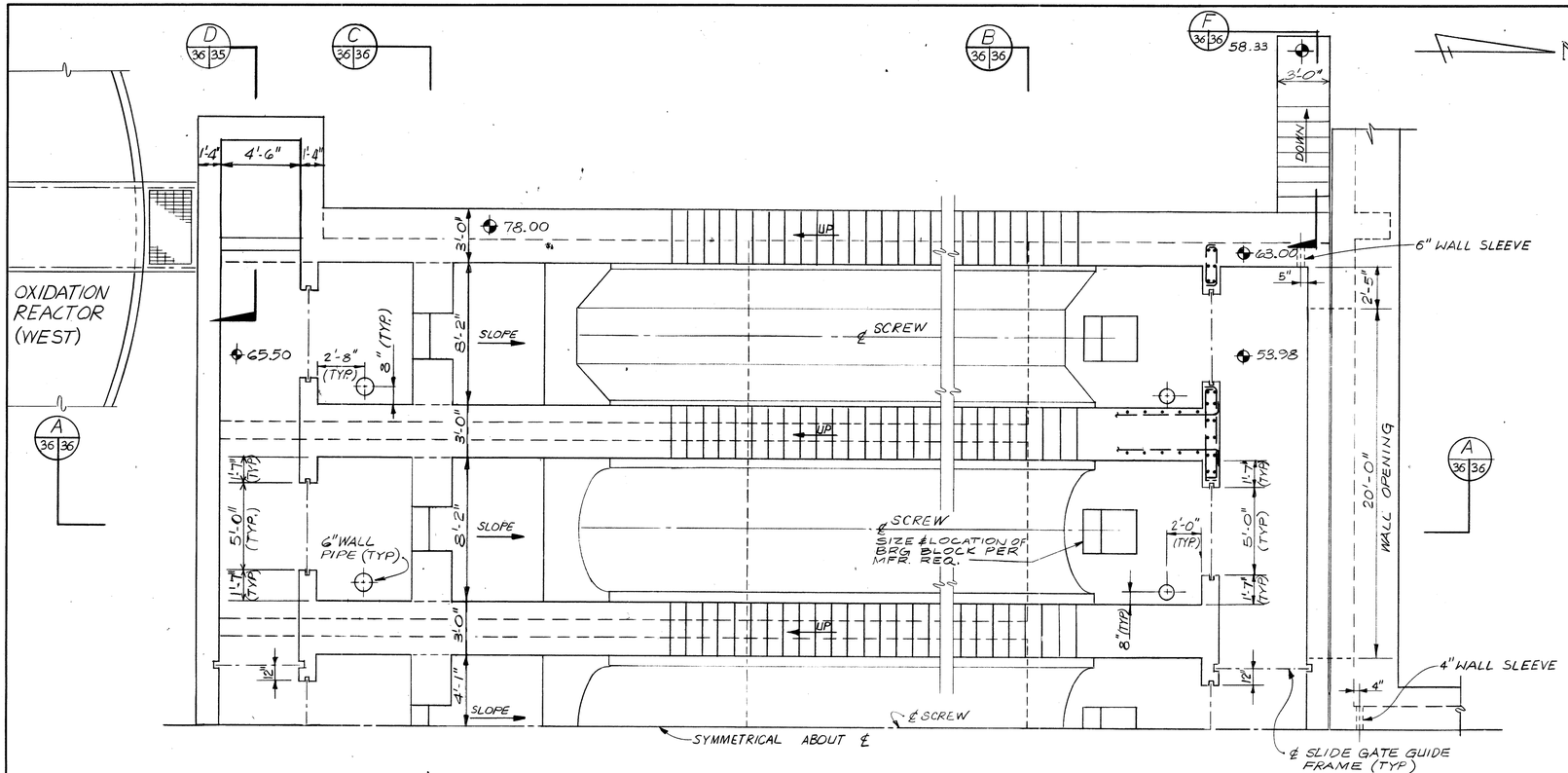
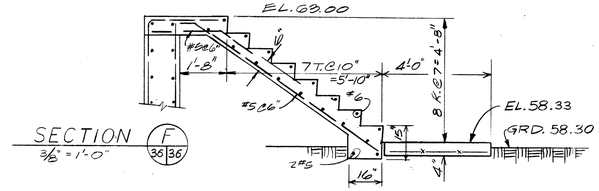
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SCREW LIFT STATION-
STRUCTURAL FOUNDATION PLAN
CLEARWATER, FLORIDA

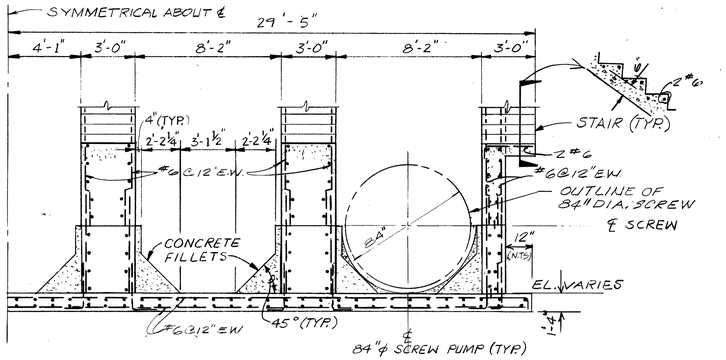
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 35 OF 166
PROJ. NO: 87054-2
FILE NO. 13008

92016



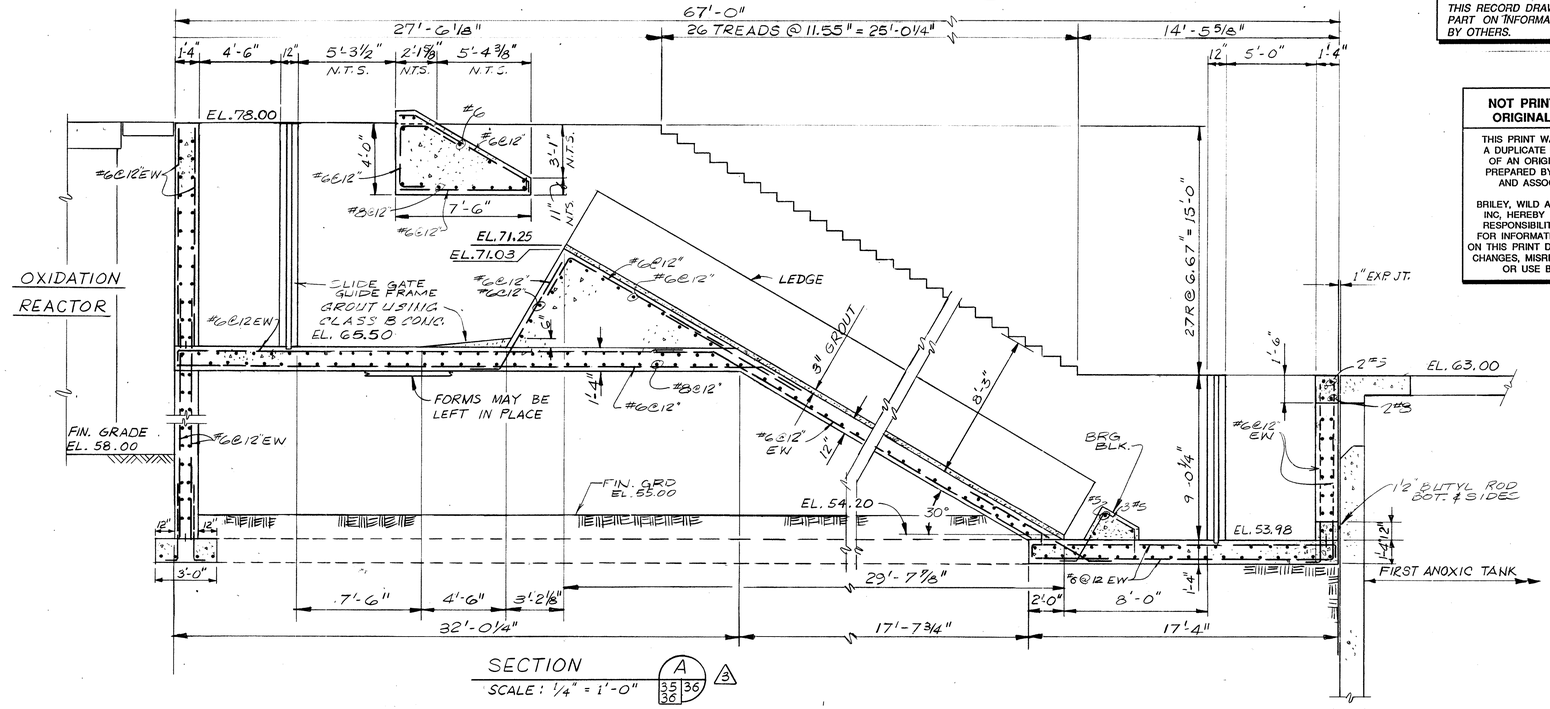




SECTION (F 36 36)
3/8" = 1'-0"




SECTION (B 35 36 / 36)
SCALE: 1/4" = 1'-0"

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




SECTION (A 35 36 / 36) (3)
SCALE: 1/4" = 1'-0"

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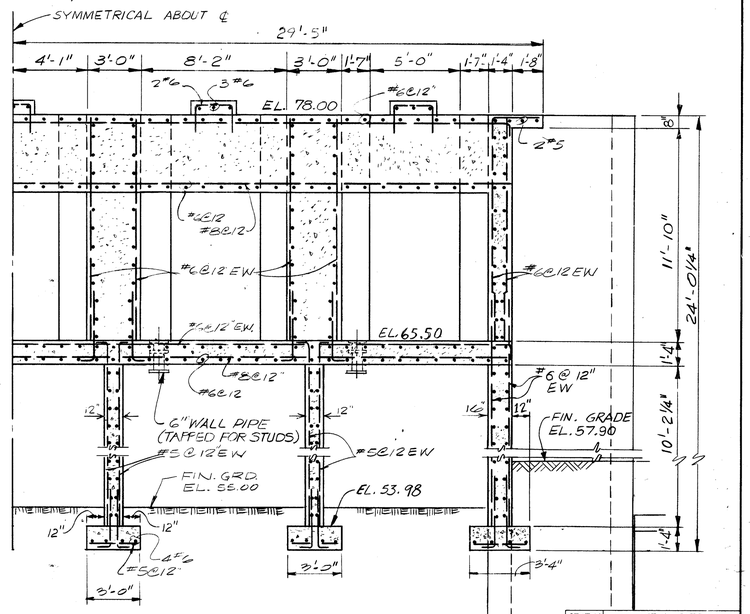


SECTION (C 35 36 / 36)
SCALE: 1/4" = 1'-0"

NOTES:

1. STAIR NOSINGS SHALL BE REQUIRED FOR ALL CONCRETE LANDINGS & STAIRS. REFER TO SHEET 123 FOR DETAILS.
2. FILL MATERIAL MAY BE USED IN PLACE OF FORMS FOR SCREW PUMP TROUGH FOUNDATION CONSTRUCTION.

**RECORD DRAWING**

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| RD | 4-21-92 |

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| RD | RECORD DRAWING |

| REV NO. | DATE | REVISION | BY |
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| 2 | 7-3-91 | RECORD DRAWING | GLB |
| 1 | 5-31-89 | REVISED PER ADDENDUM # 2 | SGO |

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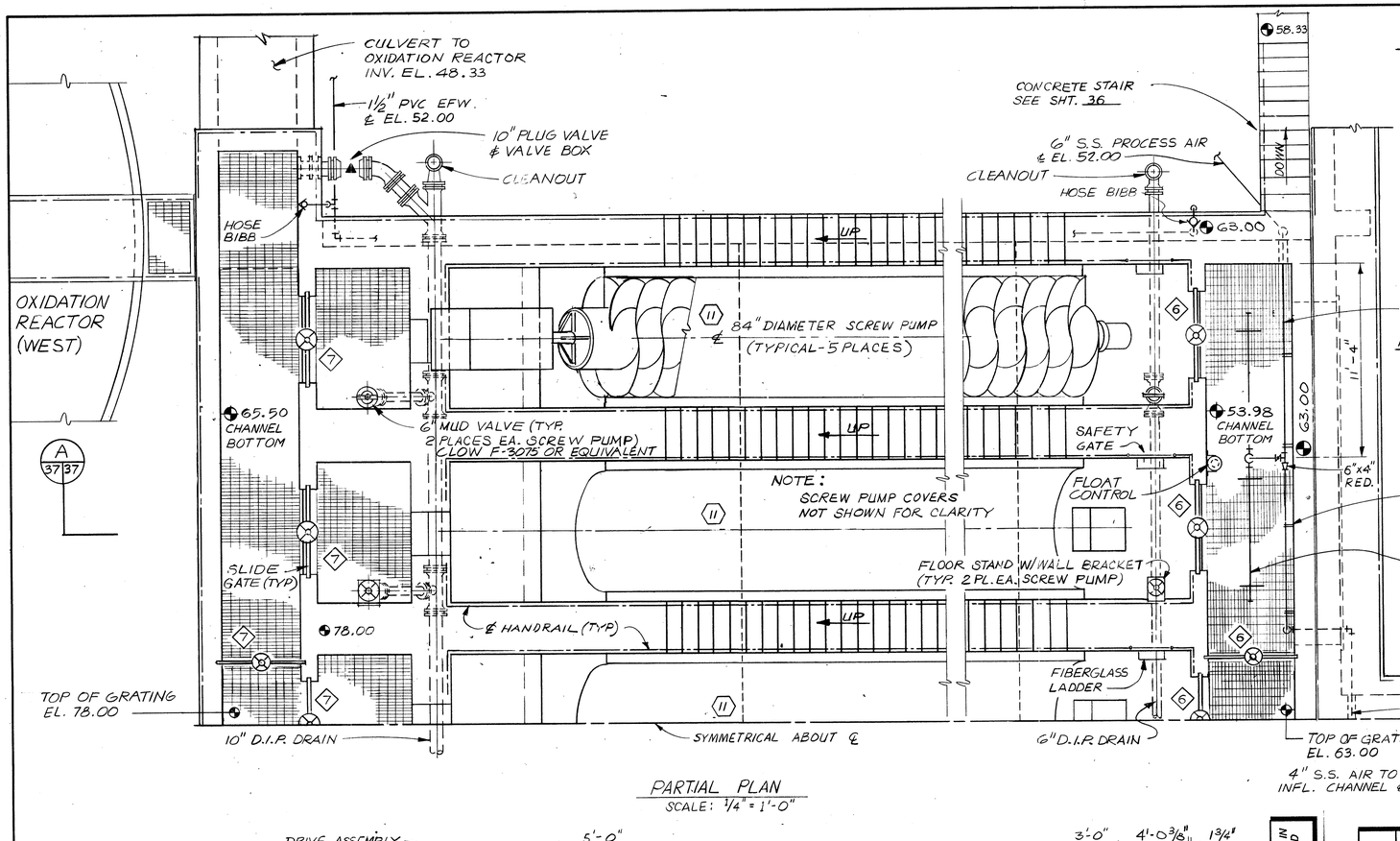
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SCREW LIFT STATION - STRUCTURAL PLAN & SECTIONS**
CLEARWATER, FLORIDA

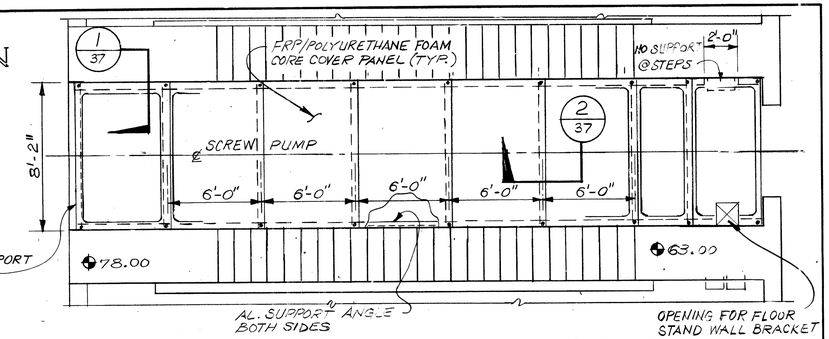
DATE: OCT. 1988
SCALE: 1/4"=1'-0"
SHEET NO. 36 OF 166

PROJ. NO. 87054-2
FILE NO. 13009

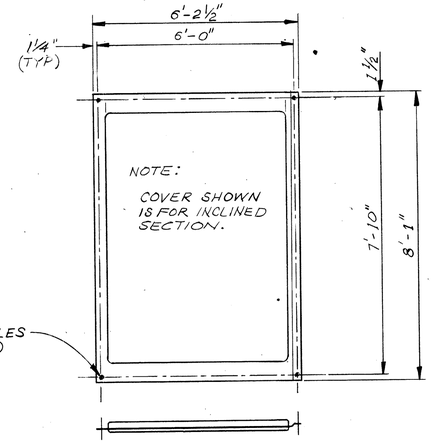
92016



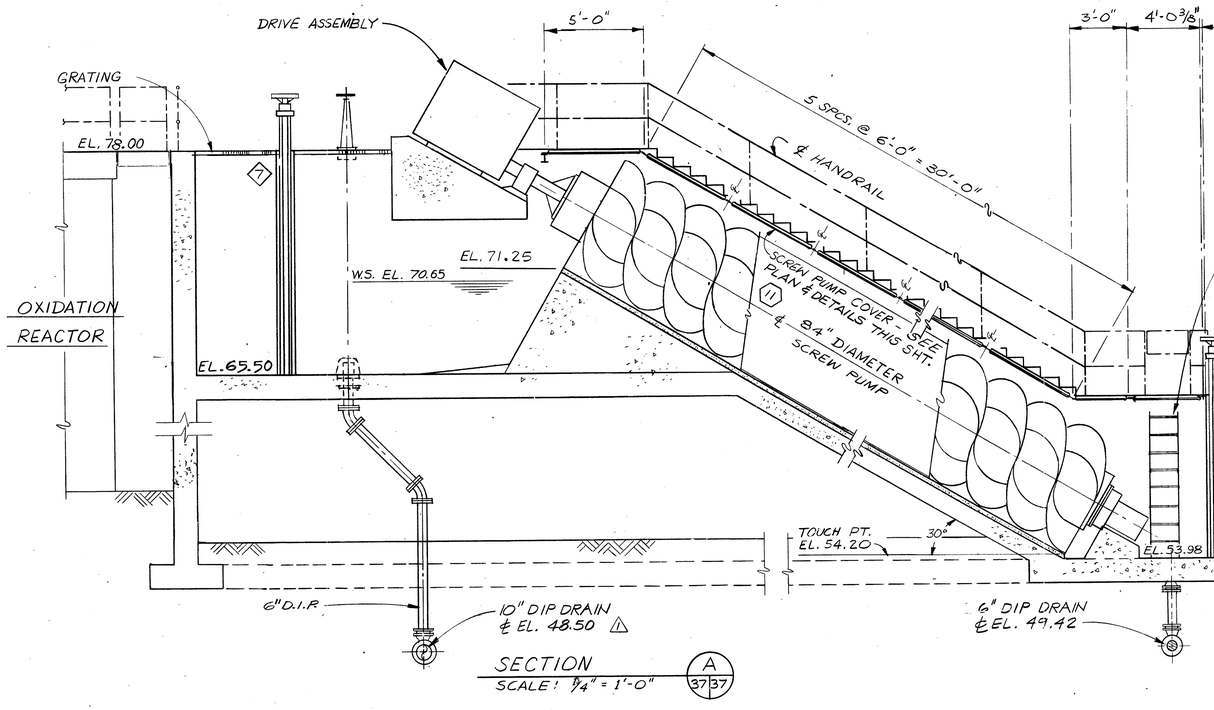

PARTIAL PLAN
SCALE: 1/4" = 1'-0"




PARTIAL PLAN SHOWING SCREW PUMP COVER
SCALE: 1/4" = 1'-0"




SCREW PUMP COVER DETAIL
SCALE: ½" = 1'-0"




SECTION
SCALE: 1/4" = 1'-0"
A 37 37

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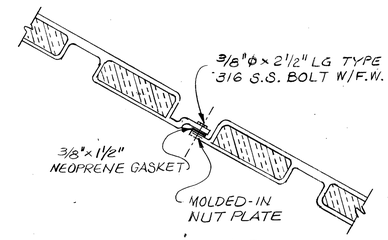
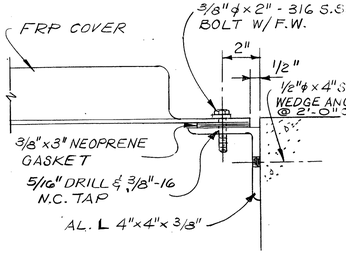



DETAIL 2/37
NOT TO SCALE




DETAIL 1/37
NOT TO SCALE

ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE 304 STAINLESS STEEL, SCHEDULE 5. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

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| 1 | 7-3-91 | RECORD DRAWING | GLB |

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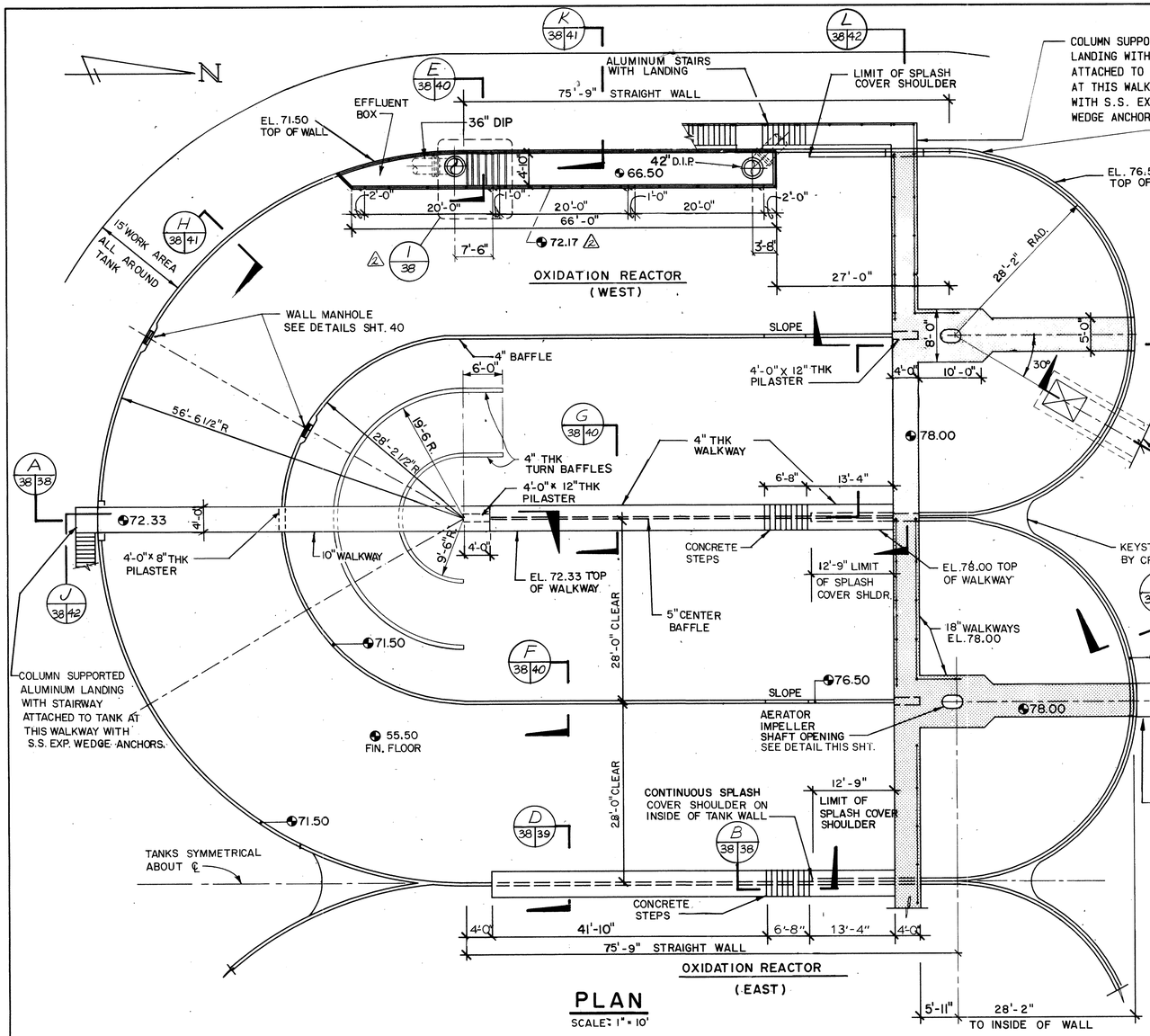
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SCREW LIFT STATION - MECHANICAL PLAN & SECTIONS**
CLEARWATER, FLORIDA

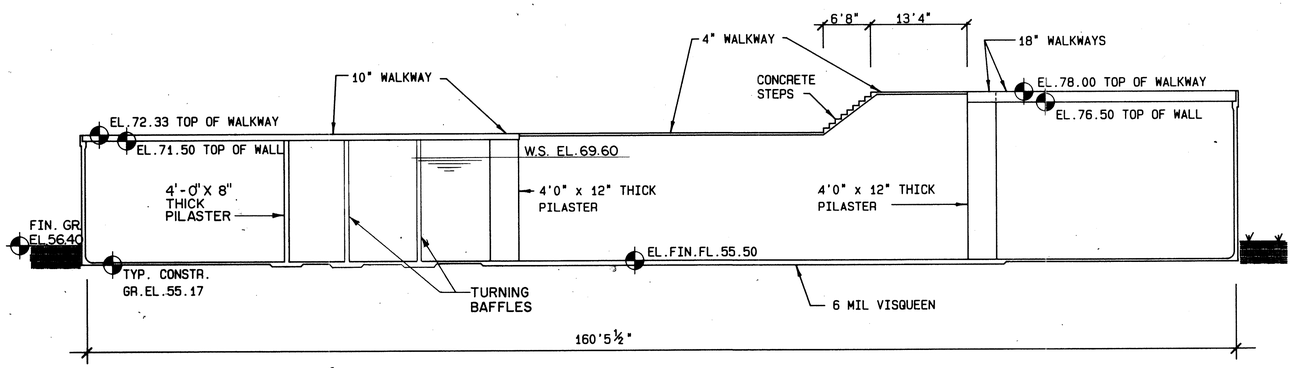
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 37 OF 166
PROJ. NO. 87054-2
FILE NO. 13010

92016

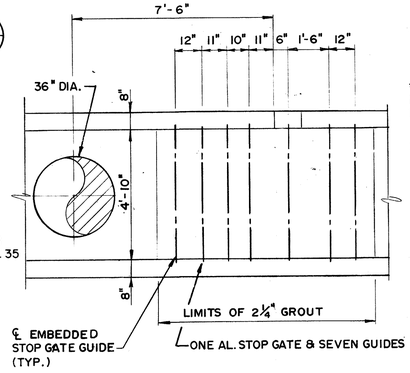



## PLAN

SCALE: 1" = 10'

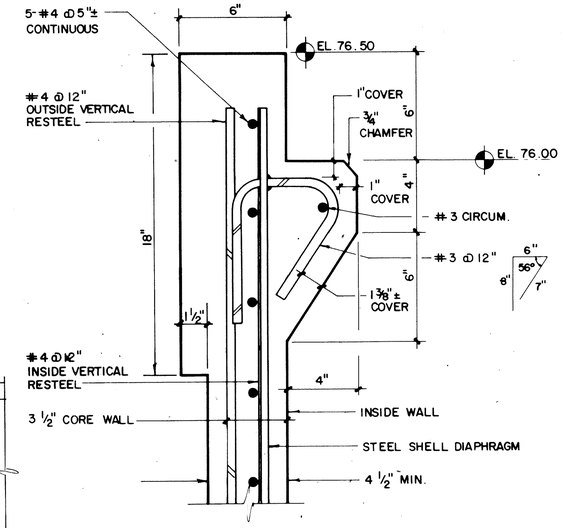



## SECTION A 38|38




## DETAIL I 38 △2

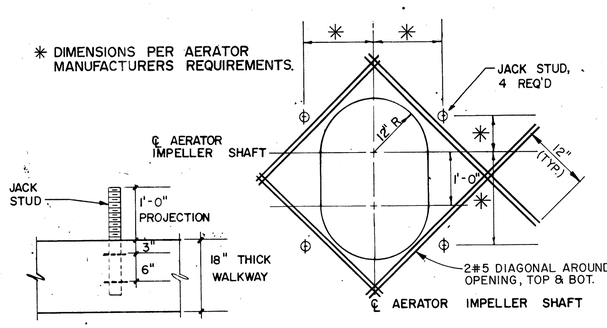
SCALE: 3/8" = 1'-0"




## SPLASH COVER SHOULDER DETAIL

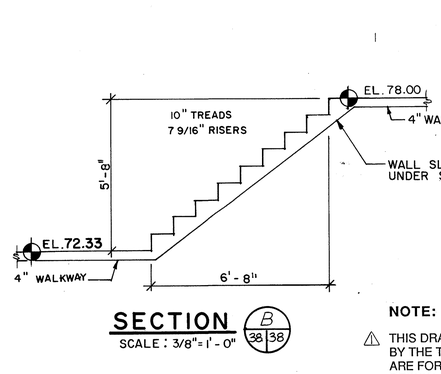
SCALE: 3" = 1'-0"

**NOTE: SEAL ALL REBAR THRU DIAPHRAGM WITH EPOXY (1019)**




## AERATOR IMPELLER SHAFT OPENING DETAIL

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




## SECTION B 38|38

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

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# RECORD DRAWING

| STATUS | ACT ON DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| △2 | 7-3-91 | RECORD DRAWING | GLB |
| △1 | 5-31-89 | REVISED PER ADDENDUM #1 | SGD |

DESIGNED CROM
DRAWN SGD RJC
CHECKED CROM

ENGINEER OF RECORD:

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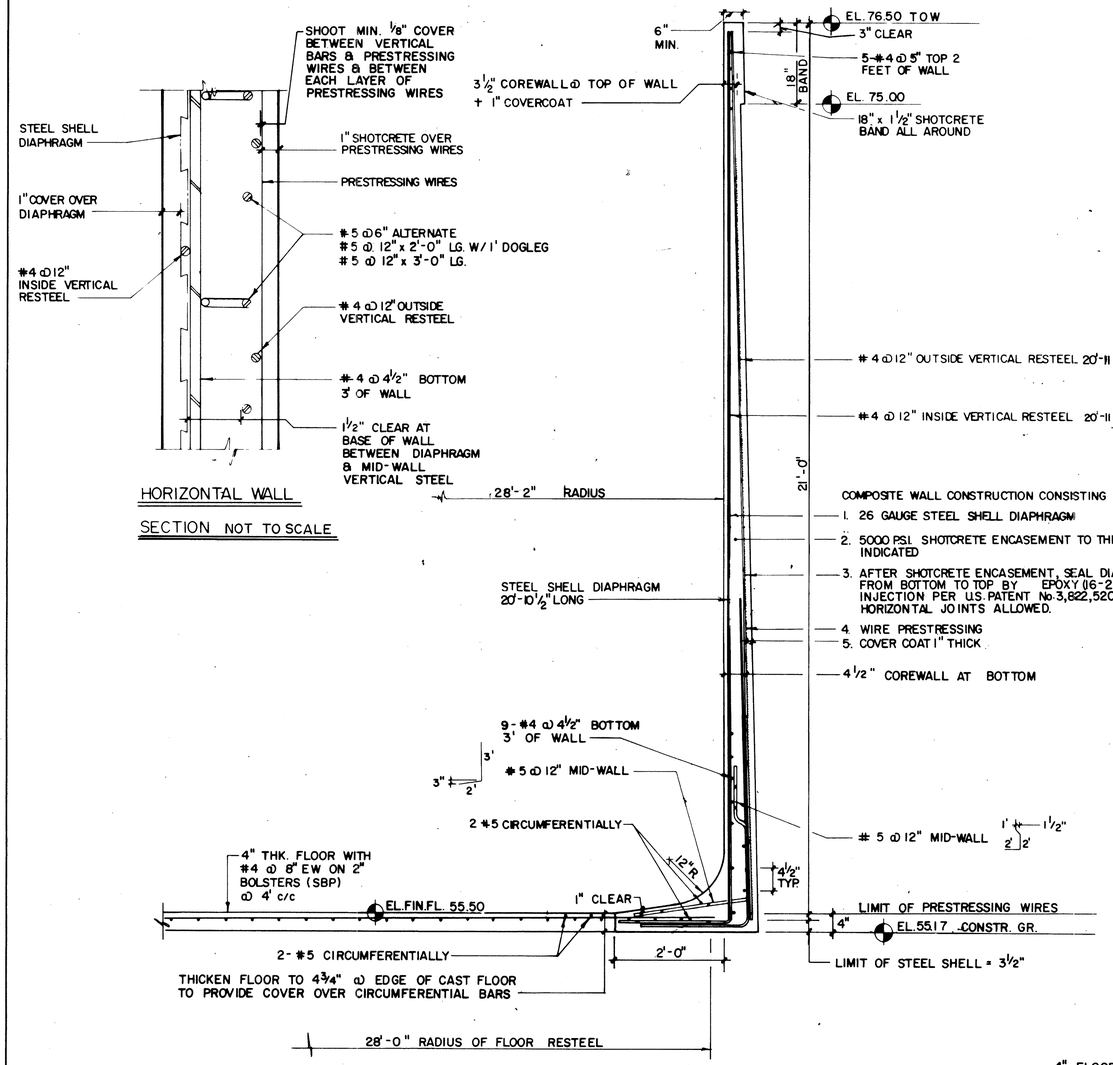
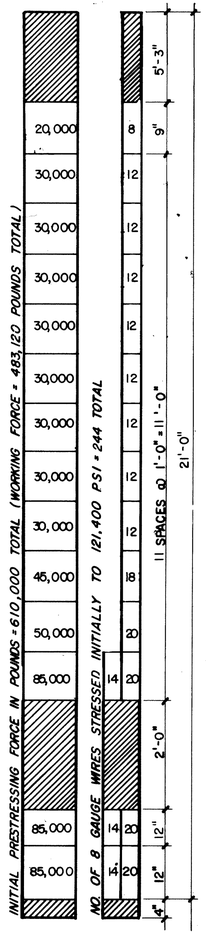
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**OXIDATION REACTORS- STRUCTURAL PLAN, SECTIONS, & DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 38 OF 166
PROJ. NO. 87054-2
FILE NO. 13011

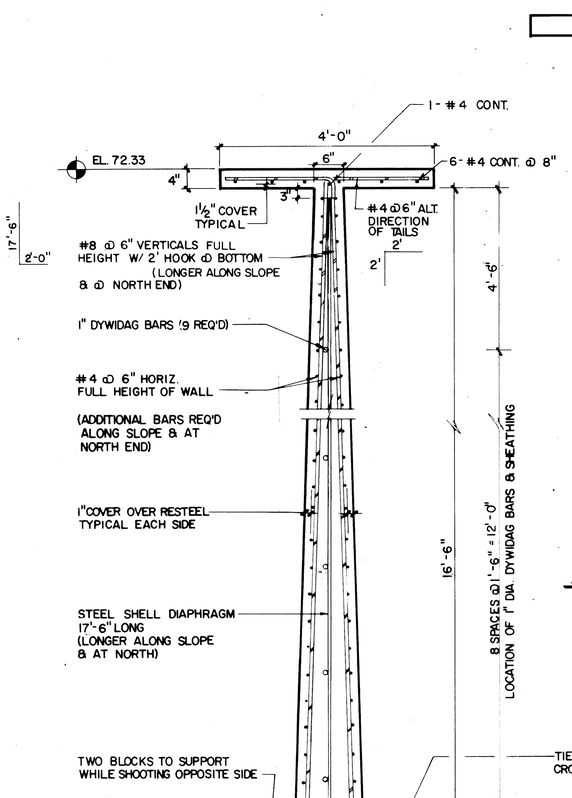
92016



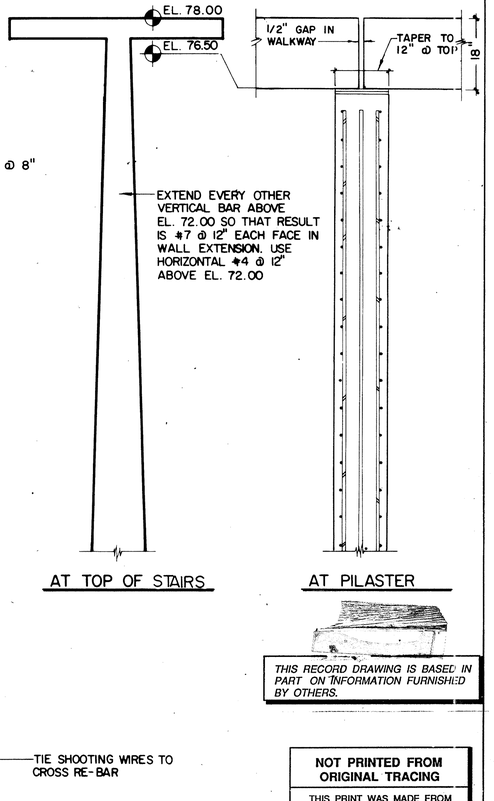

HORIZONTAL WALL SECTION NOT TO SCALE




SECTION NOT TO SCALE (C 38 39) NORTH CIRCULAR END WALL




SECTION NOT TO SCALE (D 38 38) COMMON WALL




AT TOP OF STAIRS

AT PILASTER

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**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED, DESTROY PREV. DWG. PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

**NOTE:**

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| REV. NO. | DATE | REVISION | BY |
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| 2 | 7-8-91 | RECORD DRAWING | GLB |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | SGO |

DESIGNED CROM
DRAWN SGO RJC
CHECKED CROM

ENGINEER OF RECORD:

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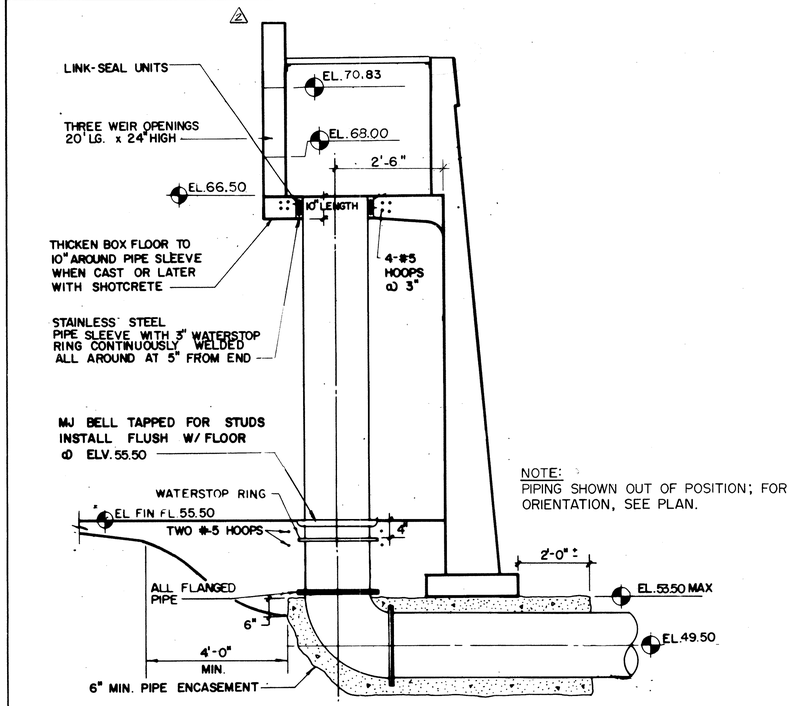
**NORTHEAST ADVANCED POLLUTION CONTROL FACILITY**
**OXIDATION REACTORS-**
**STRUCTURAL SECTIONS**
**CLEARWATER, FLORIDA**

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 39 OF 166
PROJ. NO. 87054-2
FILE NO. 13012

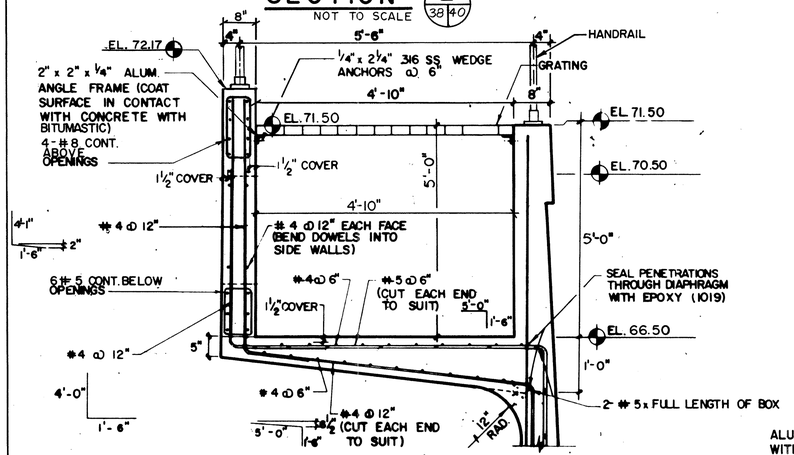
92016




NOTE:
PIPING SHOWN OUT OF POSITION; FOR ORIENTATION, SEE PLAN.

## SECTION (E 38|40)

NOT TO SCALE




## EFFLUENT BOX SECTION ⚠2

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

⚠ **NOTE:**

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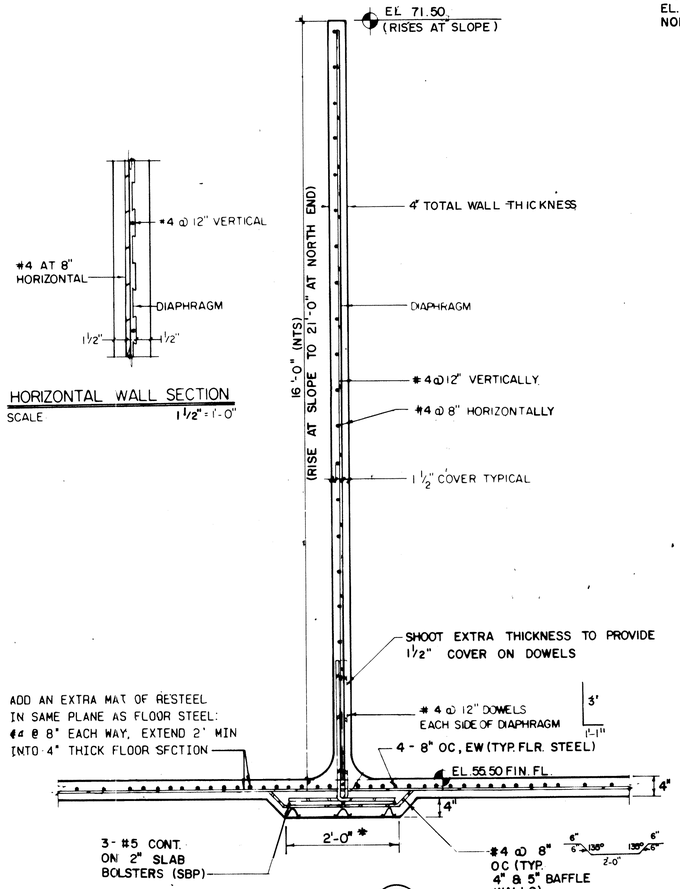
## HORIZONTAL WALL SECTION

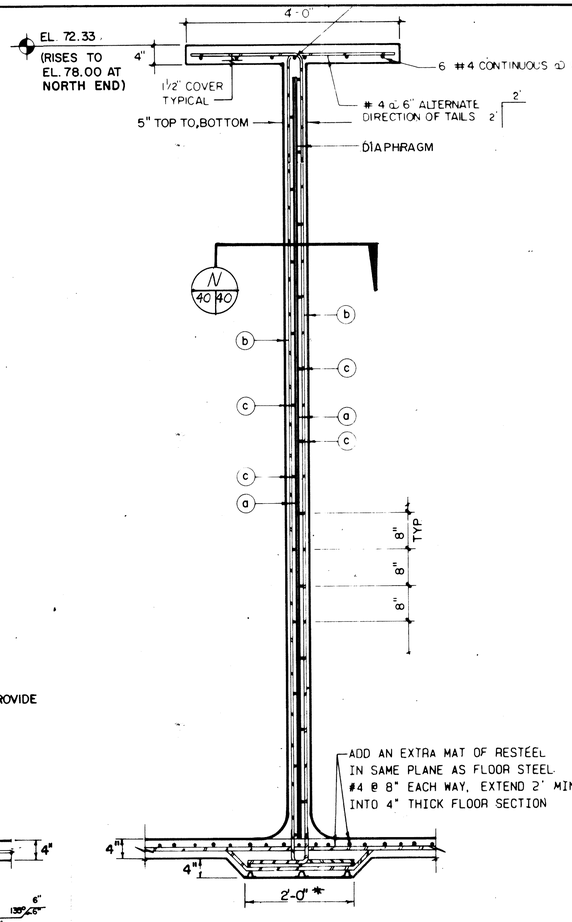
SCALE 1 1/2" = 1'-0"




## SECTION (F 38|40)

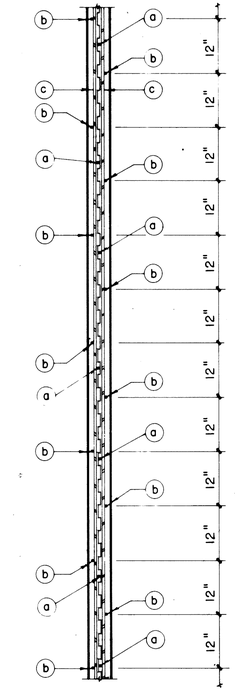
SCALE: 3/4" = 1'-0"

* WIDEN TO 4'-0" AT PILASTERS




## SECTION (G 38|40) CENTER "5" BAFFLE WALL

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




(a) #4 @ 48" VERTICALLY
(b) #4 @ 24" VERTICALLY
(c) #4 @ 16" HORIZONTALLY

NOTE: DO NOT PLACE (b) REBARS DIRECTLY OVER (a) REBARS

## SECTION (N 40|40)

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

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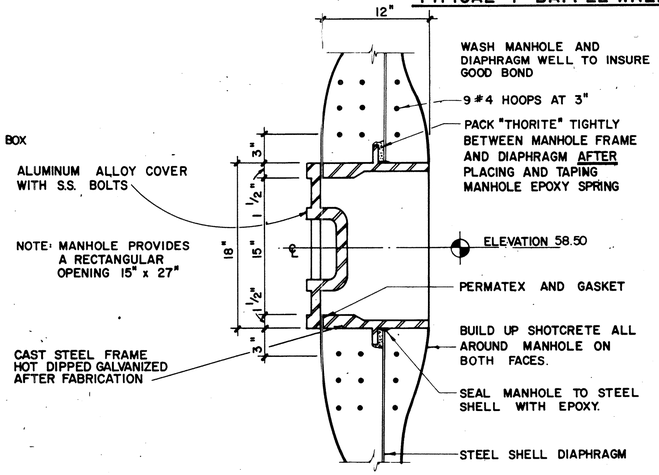
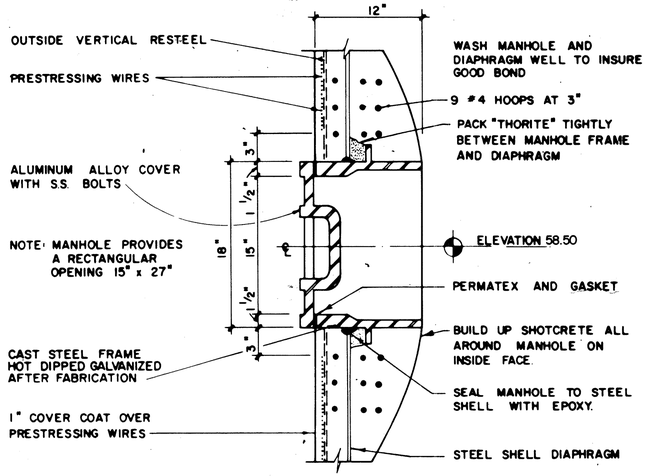
## TYPICAL "4" BAFFLE WALL




## INNER WALL MANHOLE DETAIL

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




## OUTER WALL MANHOLE DETAIL

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

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# RECORD DRAWING

| STATE | ACT ON DATE |
|---|---|
| RD | 4-21-92 |

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|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 2 | 7-8-91 | RECORD DRAWING | GLB |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | SGO |

DESIGNED CROM
DRAWN SGO
CHECKED CROM
ENGINEER OF RECORD: RJC

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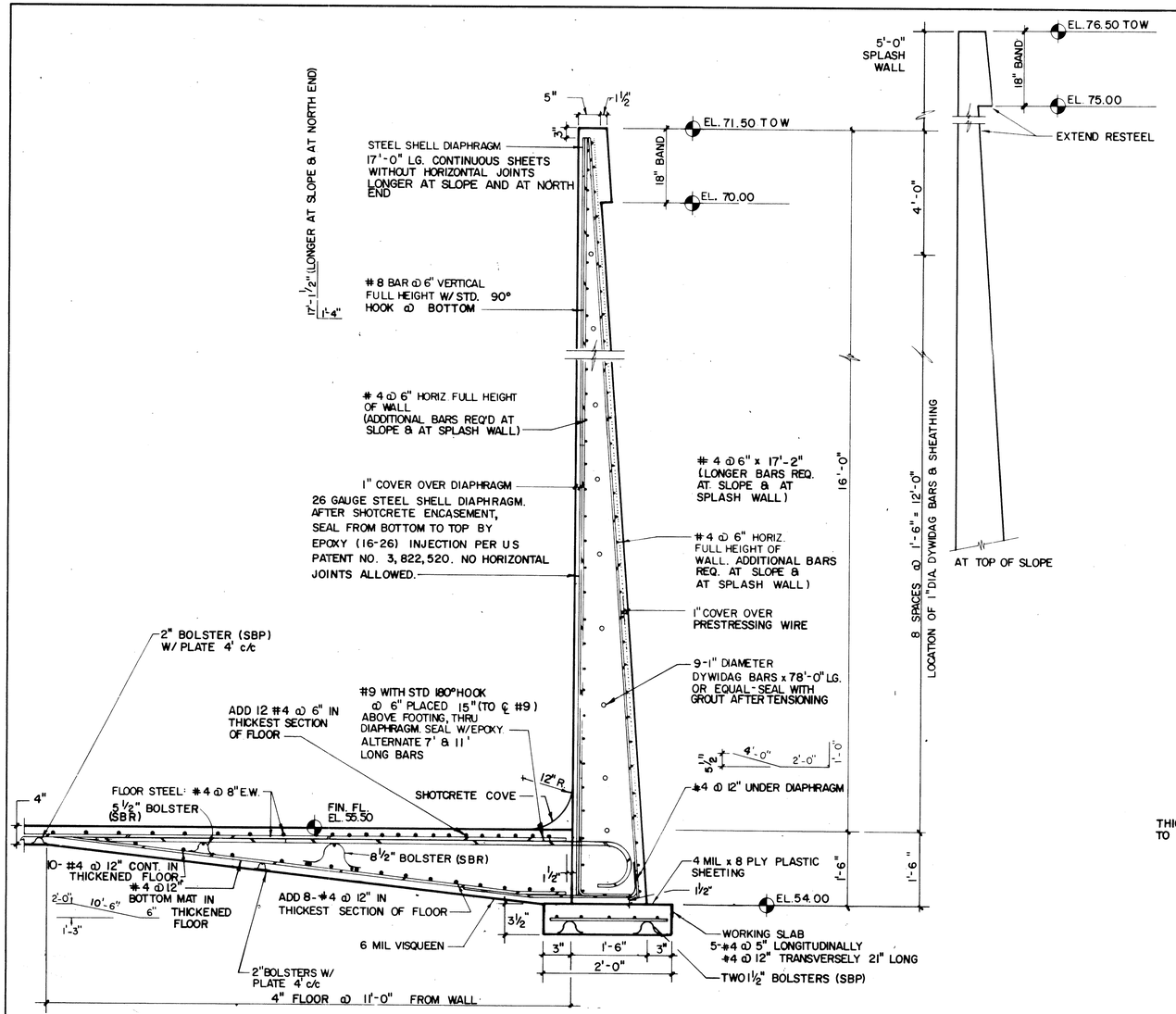
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**OXIDATION REACTORS-**
**STRUCTURAL SECTIONS & DETAILS**
CLEARWATER, FLORIDA

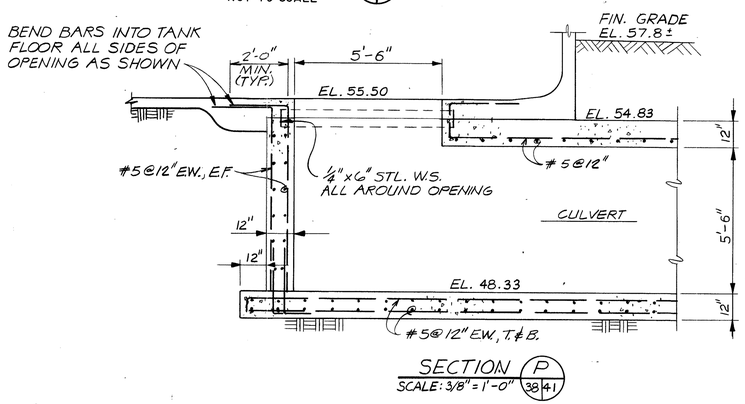
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 40 OF 166
PROJ. NO. 87054-2
FILE NO. 13013

92016

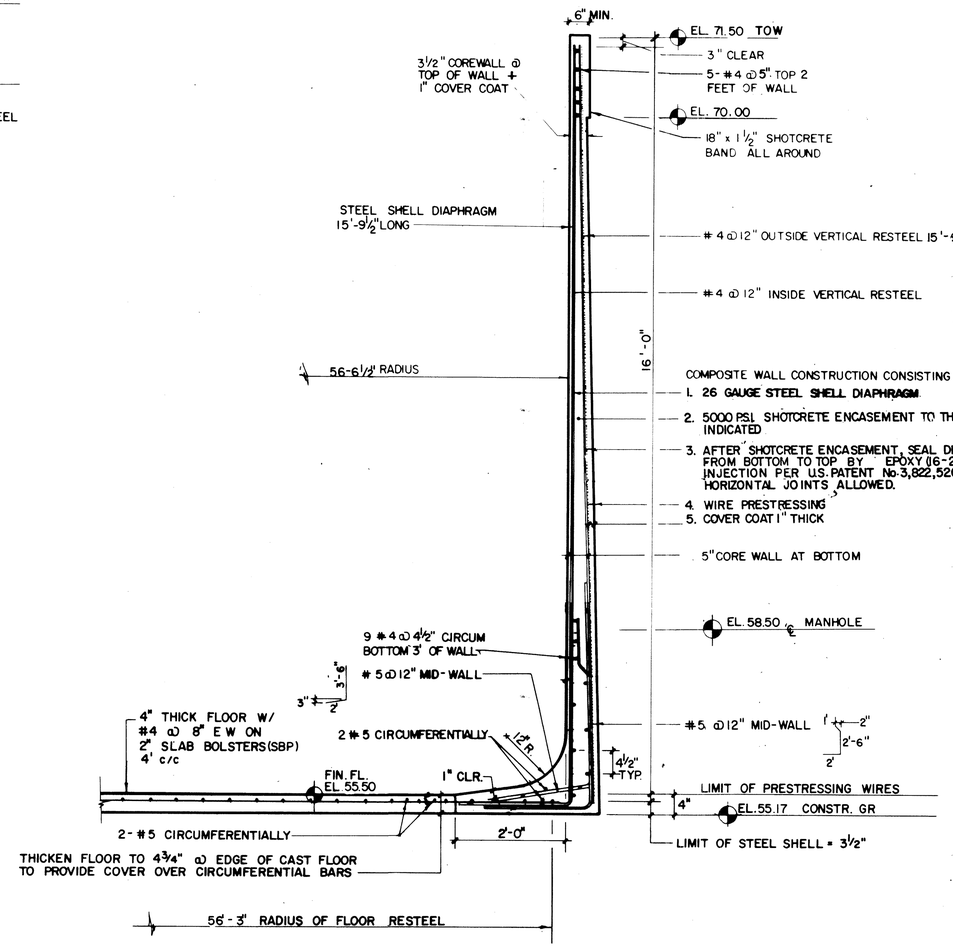



## SECTION (K 38|41) OUTSIDE STRAIGHT WALL

NOT TO SCALE

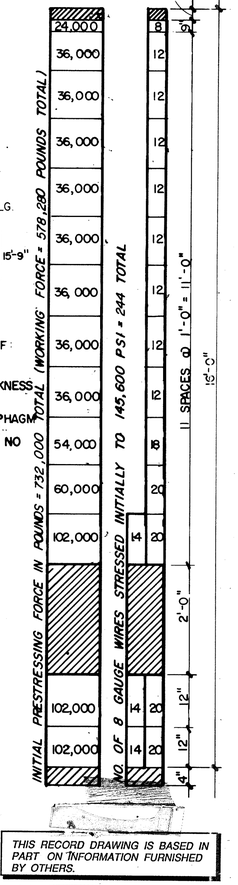



SECTION (P 38|41)
SCALE: 3/8" = 1'-0"




## SECTION (H 38|41) SOUTH CIRCULAR END WALL

NOT TO SCALE

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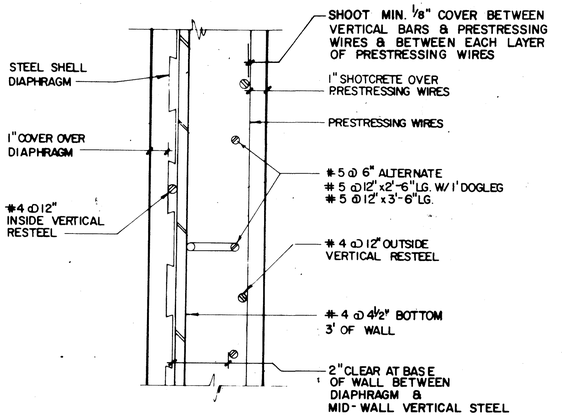


HORIZONTAL WALL SECTION N.T.S.

**NOTE:**

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| REV. NO. | DATE | REVISION | BY |
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| 2 | 7-8-91 | RECORD DRAWING | GLB |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | SGO |

DESIGNED CROM
DRAWN SGO RJC
CHECKED CROM

ENGINEER OF RECORD:

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**OXIDATION REACTORS- STRUCTURAL SECTIONS**
CLEARWATER, FLORIDA

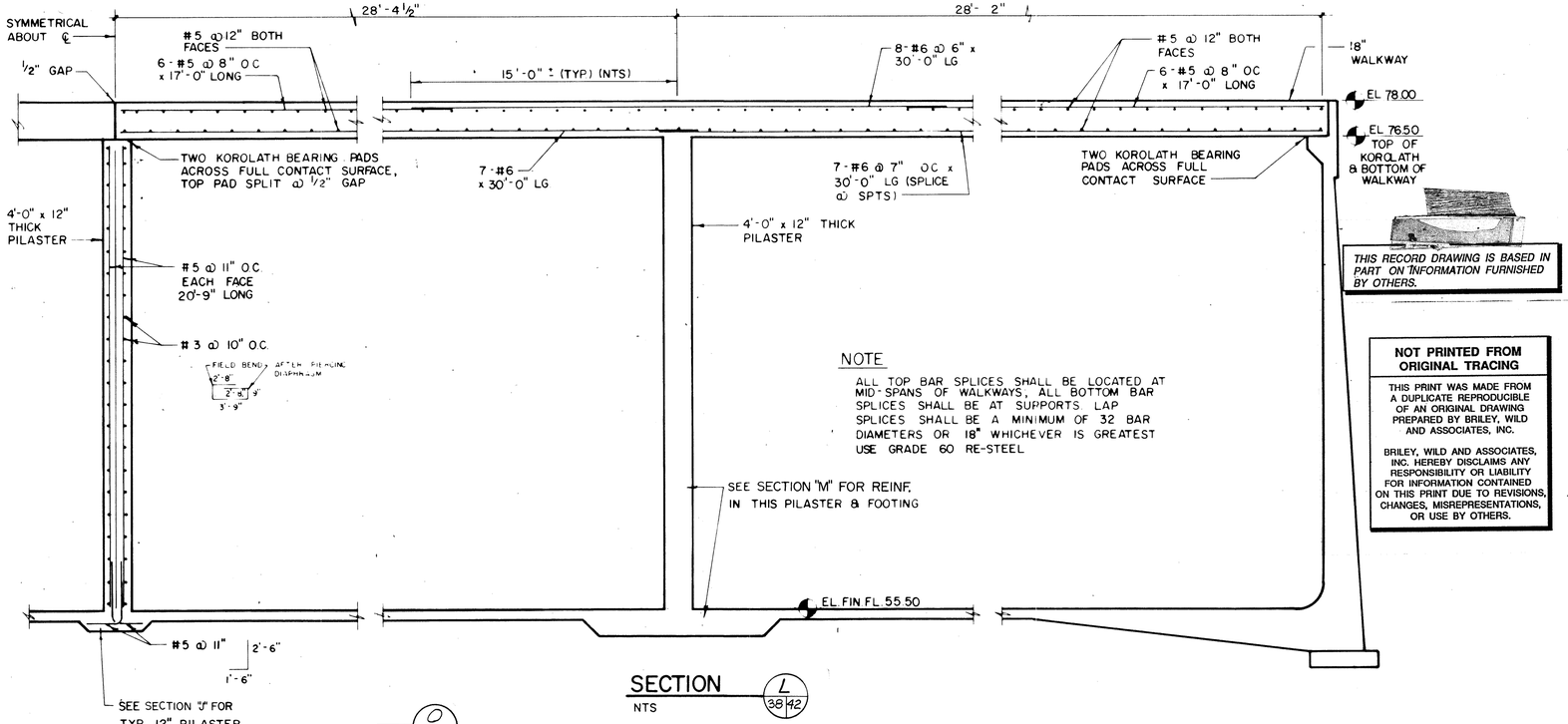
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 41 OF 166
PROJ. NO. 87054-2
FILE NO. 13014

| DATE | ACT. IN DATE |
|---|---|
| RD | 4-21-92 |

P PRELIMINARY
E FOR ESTIMATING ONLY
B FOR BIDDING ONLY
O RELEASED FOR CONSTRUCTION
R REVISED DESTROY PREVIOUS WRITE
H PORTION(S) BEING HELD
A APPROVAL
C CHECK PRINT
RD RECORD DRAWING

# RECORD DRAWING

92016




SECTION L (38|42)
NTS

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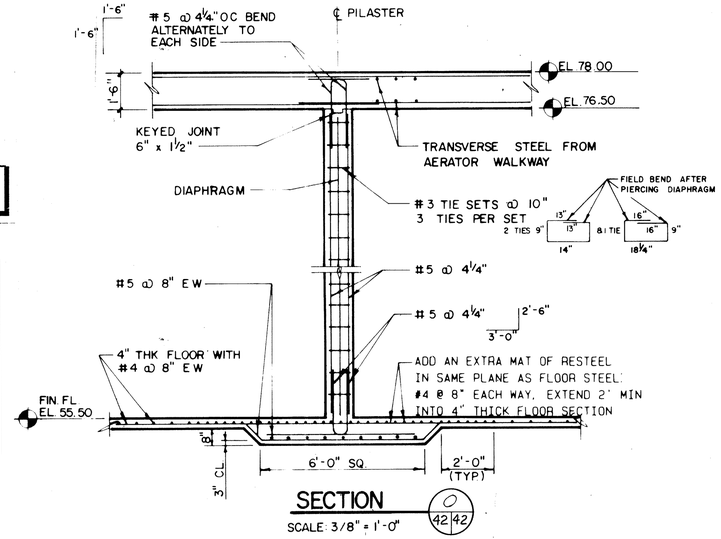
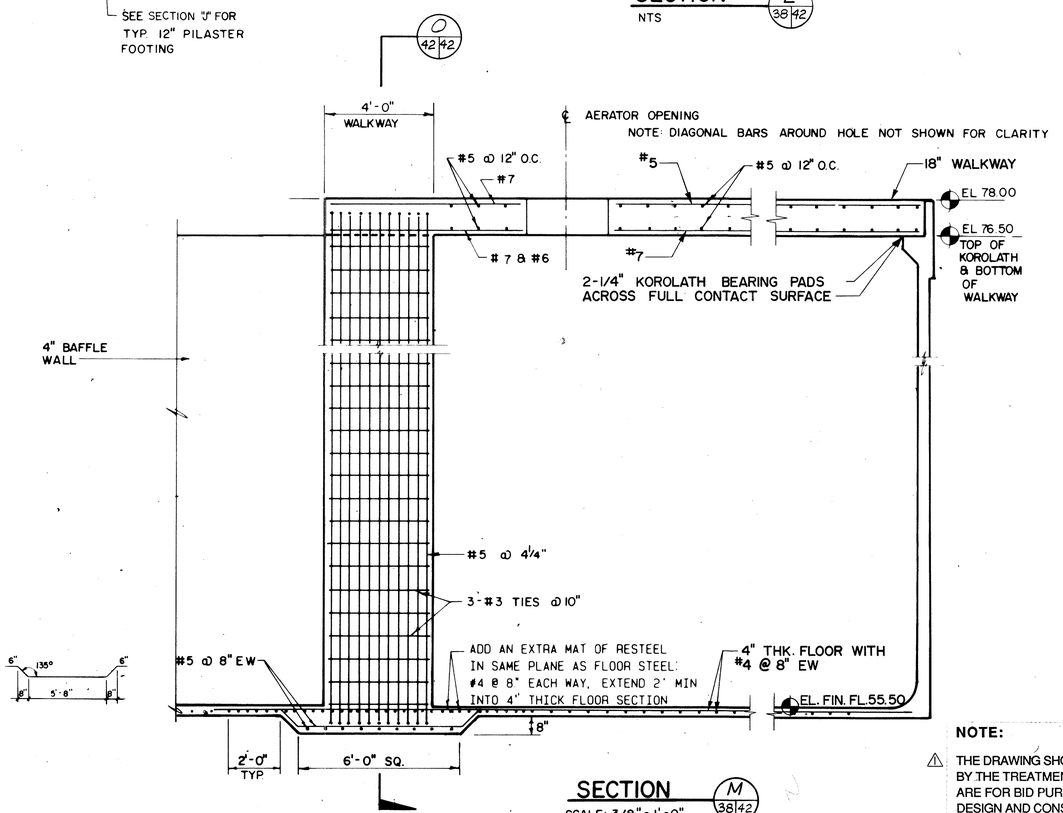
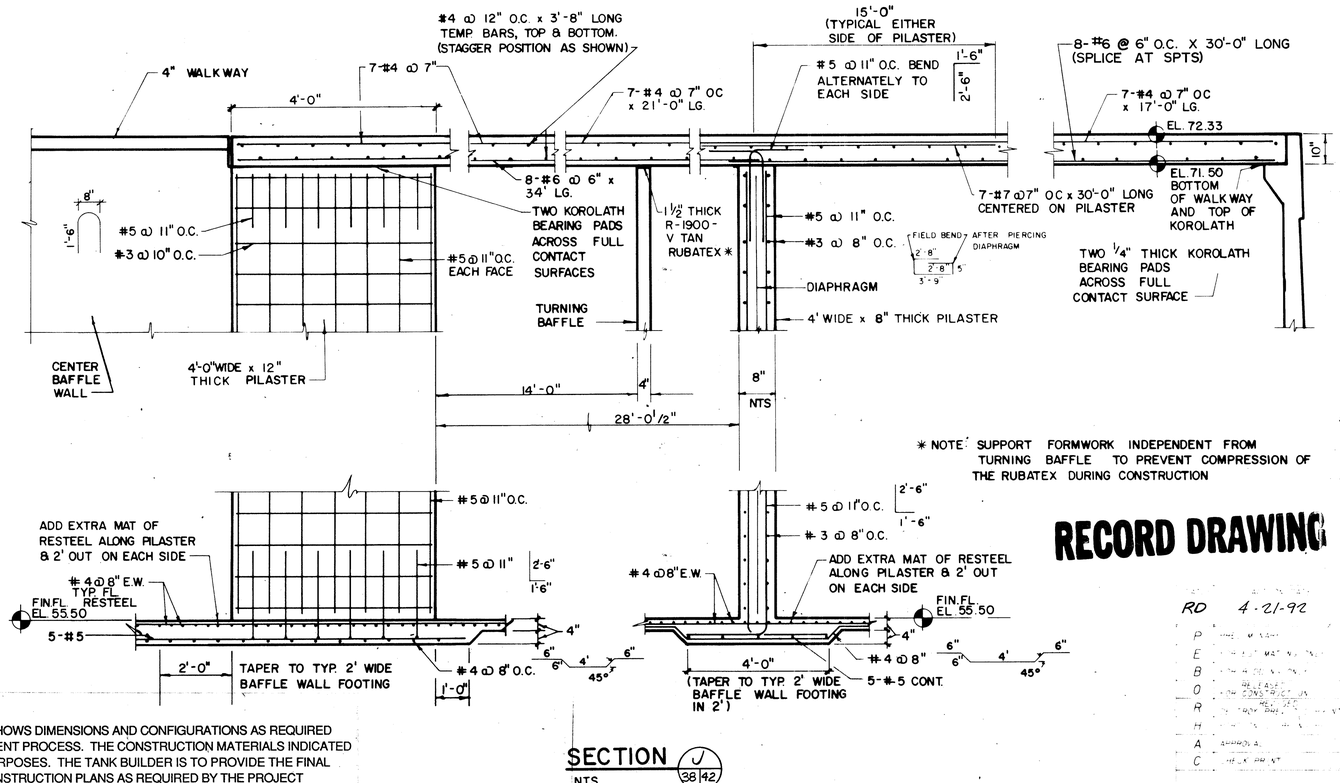



SECTION O (42|42)
SCALE: 3/8" = 1'-0"




SECTION M (38|42)
SCALE: 3/8" = 1'-0"




* NOTE: SUPPORT FORMWORK INDEPENDENT FROM TURNING BAFFLE TO PREVENT COMPRESSION OF THE RUBATEX DURING CONSTRUCTION




SECTION J (38|42)
NTS

**NOTE:**

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**RECORD DRAWING**

RD 4-21-92

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RD RECORD DRAWING

| REV. NO. | DATE | REVISION | BY |
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| 2 | 7-8-91 | RECORD DRAWING | GLB |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | GBO |

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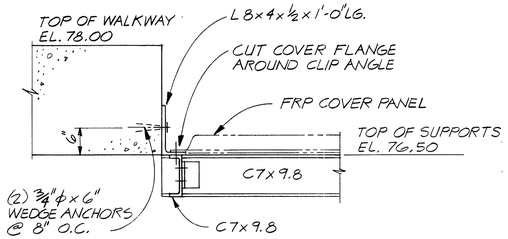
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**OXIDATION REACTORS - STRUCTURAL SECTIONS**
CLEARWATER, FLORIDA

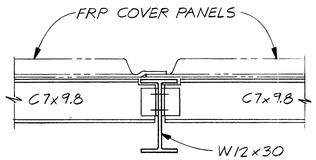
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 42 OF 166

JOB NO. 87054-2
FILE NO. 13015

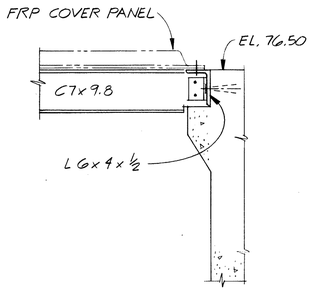
92016




DETAIL 1/43
SCALE: 1"=1'-0"




DETAIL 2/43
SCALE: 1"=1'-0"




DETAIL 3/43
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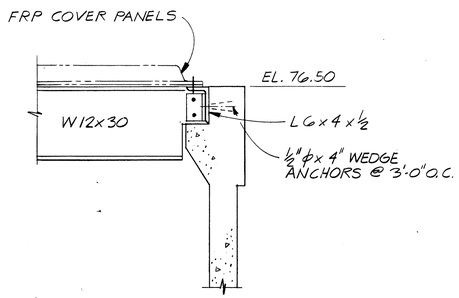
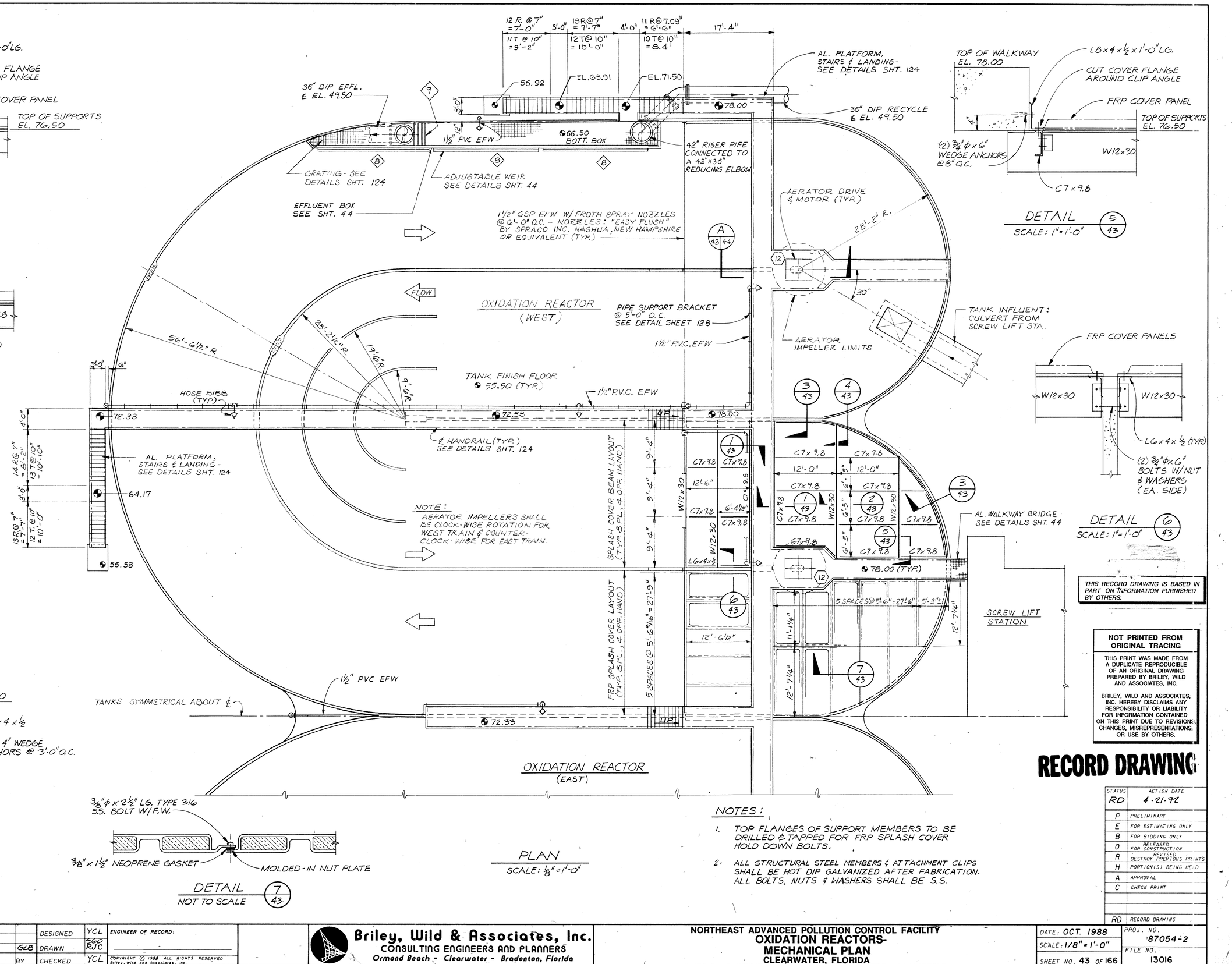
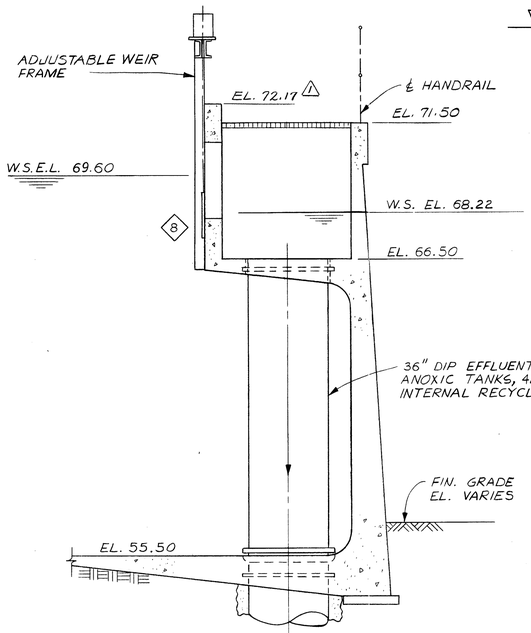


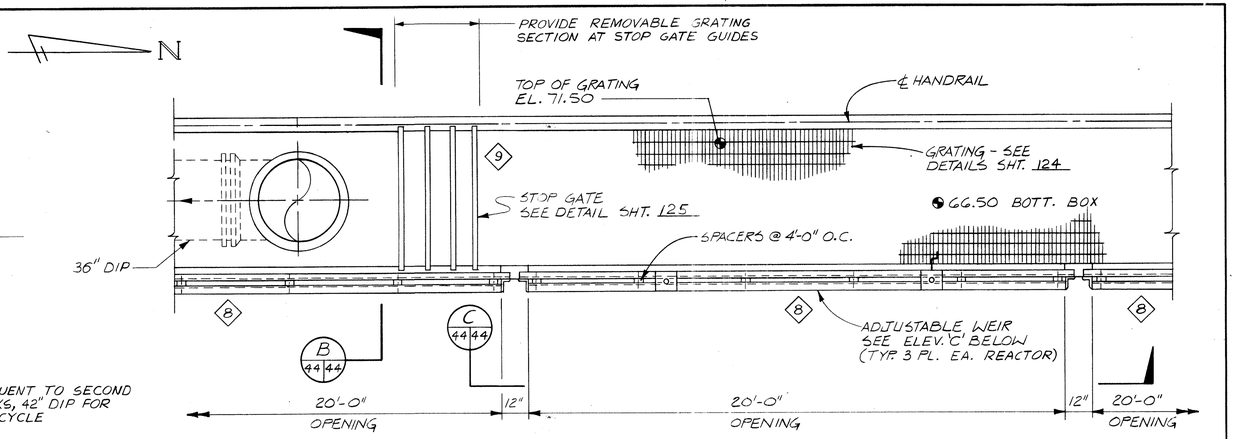

DETAIL 4/43
SCALE: 1"=1'-0"


12 R. @7" = 7'-0"
11T @ 10" = 9'-2"
3'-0"
13R@7" = 7'-7"
12T@ 10" = 10'-0"
4'-0"
11 R@7.09" = 9'-6"
10 T@ 10" = 8.4'
17'-4"
56.92
EL.68.31
EL.71.50
36" DIP EFFL. & EL. 49.50
9
3'-0"
1½" PVC EFW
66.50 BOTT. BOX
78.00
AL. PLATFORM, STAIRS & LANDING - SEE DETAILS SHT. 124
36" DIP RECYCLE & EL. 49.50
42" RISER PIPE CONNECTED TO A 42"x36" REDUCING ELBOW
8
GRATING - SEE DETAILS SHT. 124
ADJUSTABLE WEIR SEE DETAILS SHT. 44
EFFLUENT BOX SEE SHT. 44
1½" GSP EFW W/ FROTH SPRAY NOZZLES @ 6'-0" O.C. - NOZZLES: "EASY FLUSH" BY SPRACO INC. NASHUA, NEW HAMPSHIRE OR EQUIVALENT (TYP.)
A 43/44
AERATOR DRIVE & MOTOR (TYP.)
28'-2" R.
12
30°
FLOW
OXIDATION REACTOR (WEST)
PIPE SUPPORT BRACKET @ 5'-0" O.C. SEE DETAIL SHEET 128
1½" P.V.C. EFW
TANK INFLUENT: CULVERT FROM SCREW LIFT STA.
AERATOR IMPELLER LIMITS
56'-6½" R.
28'-2½" R.
19'-6" R.
9'-6" R.
3'-0"
6"
HOSE RIBB (TYP.)
72.33
TANK FINISH FLOOR 55.50 (TYP.)
1½" P.V.C. EFW
UP
78.00
& HANDRAIL (TYP.) SEE DETAILS SHT. 124
14 R@7" = 8'-2"
13 T@10" = 10'-10"
4'-0"
13R@7" = 7'-7"
12T@10" = 10'-0"
3'-0"
AL. PLATFORM, STAIRS & LANDING - SEE DETAILS SHT. 124
64.17
56.58
NOTE: AERATOR IMPELLERS SHALL BE CLOCK-WISE ROTATION FOR WEST TRAIN & COUNTER-CLOCK-WISE FOR EAST TRAIN.
SPLASH COVER BEAM LAYOUT (TYP. 8 PL.; 4 OPP. HAND.)
9'-4"
9'-4"
9'-4"
W12x30
W12x30
W12x30
C7x9.8
C7x9.8
C7x9.8

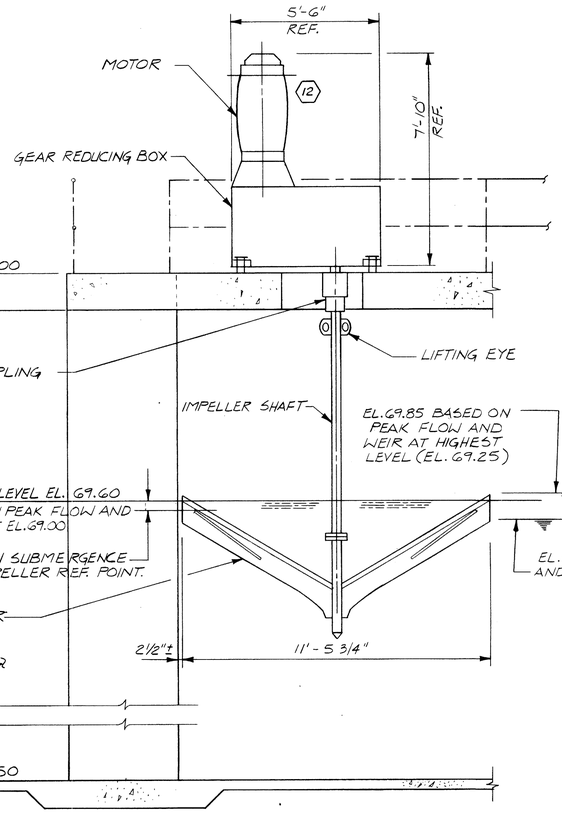



TYPICAL 4 PLACES

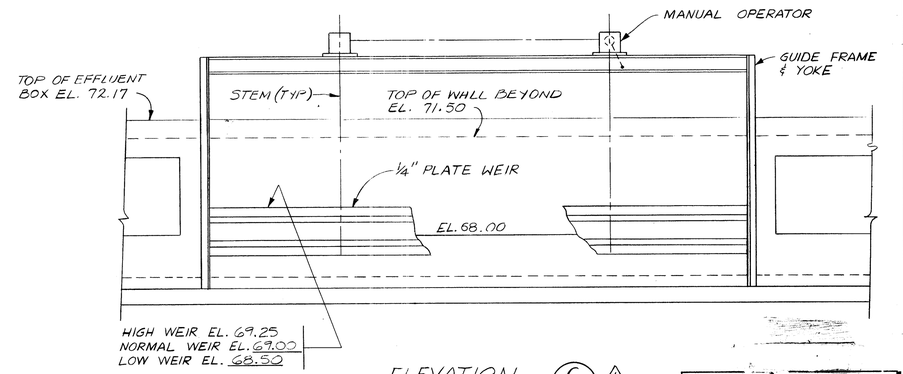
SECTION (B 44|44)
SCALE: 3/8"=1'-0"




PARTIAL PLAN @ EFFLUENT BOX
SCALE: 3/8"=1'-0"




SECTION (A 43|44)
SCALE: 3/8"=1'-0"




ELEVATION (C 44|44) ⚠
SCALE: 3/8"=1'-0"

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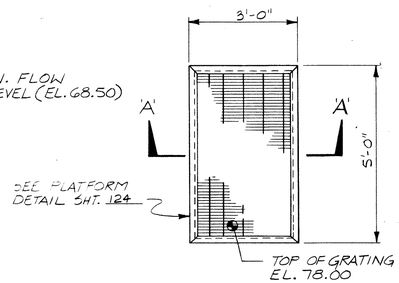
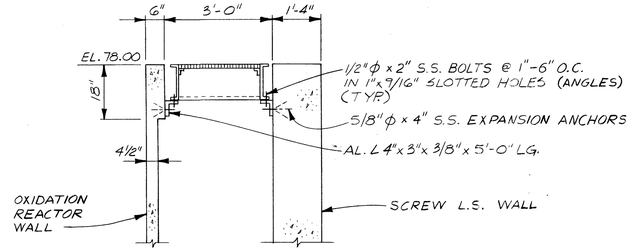



PLAN




SECTION A-A

ALUMINUM WALKWAY BRIDGE
SCALE: 1/2" = 1'-0"

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| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| ⚠ | 7-8-91 | RECORD DRAWING | GLB |

DESIGNED YCL
DRAWN RAP KTB
CHECKED YCL

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CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**OXIDATION REACTORS-**
**MECHANICAL SECTIONS & DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 44 OF 166
PROJ. NO. 87054-2
FILE NO. 13017

92016

N

36" A ℄ EL. 49.34 ℄ FROM CONTROL BLDG

16" A ℄ EL. 54.01

10" 5'-0" 10"

36"x24" TEE
24"x24" CROSS
24"x16" RED
36"x24" RED

6" A

6"x16" A

6" COUPLING

4" A

EL. 59.75

6"x4" RED.

12" AIR ℄ EL. 54.01±

CHANNEL AIR HEADER (TYP.)

6" COUPLING

6" STL PIPE

STOP GATE (TYP.)

2" GLOBE VALVE (TYP.)

EL. 66.25

EL. 59.75

EL. 64.80

EL. 66.25

B 45|46

12" C.I. RISER (TYP.)

12"-90° STL ELL W/C.I. ADAPT'R (TYP.)

24" A ℄ EL. 49.34 TO AEROBIC DIGESTION TANKS

6"x4" RED.

4" COUPLING

12" (TYP.)

2" GLV (TYP.)

10'-0"

1'-4"

℄ HANDRAIL

6" THK PRESTRESSED SLABS

26'-6"

26'-0"

25'-6"

11'-6"

EL. 66.25 EL. 60.25

EL. 49.25

4" BELL-END DRAIN PIPE W/PLUG DRAIN VALVE (CLOW TYPE F-3088) TAP INTO 10" DW

REMOVABLE 1/4" ALUM. TREAD PL

REMOVABLE 1/4" ALUM. TREAD PL

CONC. S/W

A 45|46

SPRAY NOZZLE (TYP) 2.0 GPM @ 10 PSI

5'-0" H.T.S. (TYP.)

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EFFLUENT USE PIPE SUPPORT, 10'± O.C.

CHANNEL AIR PIPE SUPPORT, 10'±O.C.

TANK NO. 1

4

TANK NO. 5

7

8

℄ HANDRAIL

℄ HANDRAIL

D.O. PROBE (TYP.) TANKS 1,3,5 & 7

20'-0"

20'-0"

82'-8"

6" DW/SC

CONC. PAV'T.

4" COUPLING

1'-4"

4" A

2" FSW

2" FSW ℄ EL. 65.75

2" FSW

2" FSW ℄ EL. 65.75

2" FSW

1'-4" 25'-0" 1'-4" 1'-4" 5'-0" 1'-4" 25'-0" 1'-4" 25'-0" 1'-4" 25'-0" 1'-4" 25'-0" 1'-4"

109'-2"

218'-4"

AIR DIFFUSER HEADER (TYP.)

1/4" ALUM. TREAD PL (TYP.)

6" (TYP.)

℄ HANDRAIL (TYP.)

STOP GATE (TYP.)

EL. 66.25

℄ HANDRAIL

4" COUPLING

LIGHT POLE

4" A

LIGHT POLE

CONC. PAV'T.

4" COUPLING CHANNEL AIR HEADER (TYP.)

CONC. PAV'T.

ASPH. PAV'T.

MCP PRIMARY EFFLUENT EL. 59.75 (TYP.)

LEGEND

REMOVAL

EXISTING TO REMAIN

RECORD DRAWING

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AND COMPARE WITH THESE PLANS TO INSURE ADEQUATE PERFORMANCE AND COST ESTIMATION TO COMPLETE THE JOB AS SPECIFIED.

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| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|

| | |
|---|---|
| DESIGNED | SGO |
| DRAWN | MPB KTB |
| CHECKED | SRS |

ENGINEER OF RECORD:

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

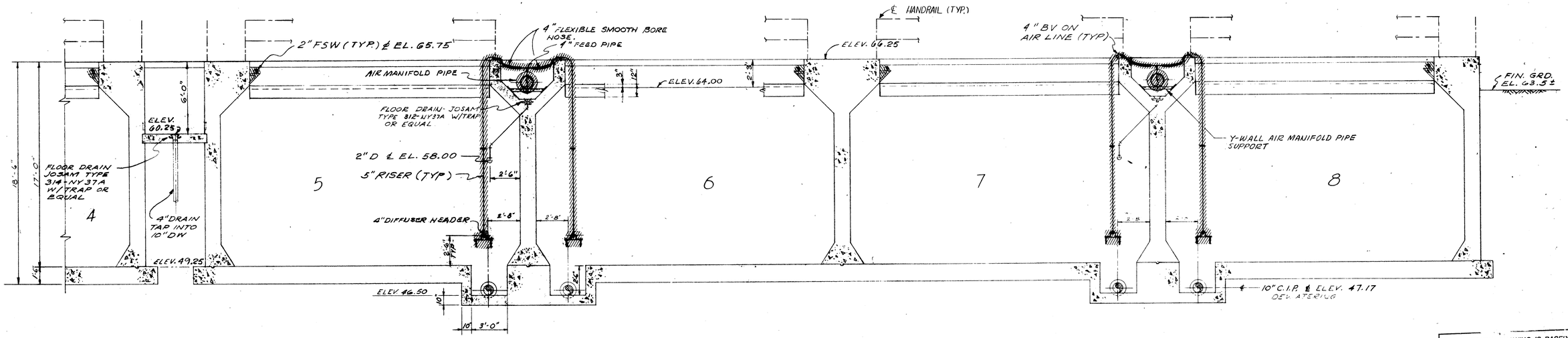
EXISTING AERATION TANK - REMOVAL PLAN

CLEARWATER, FLORIDA

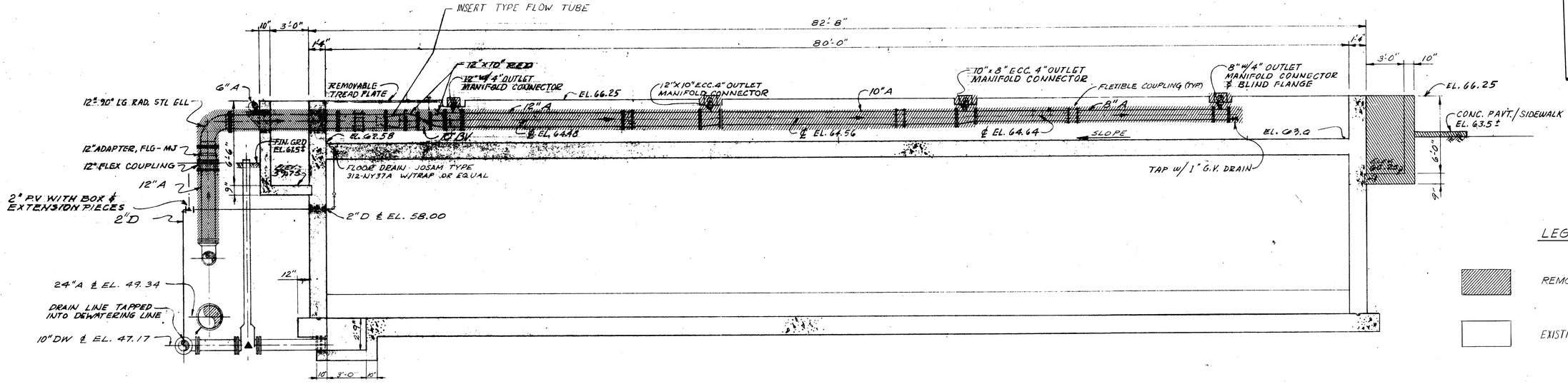
DATE: OCT. 1988
SCALE: 3/16"=1'-0"
SHEET NO. 45 OF 166

PROJ. NO. 87054-2
FILE NO. 13018

92016




SECTION (A 45|46)
SCALE: 1/4" = 1'-0"




SECTION (B 45|46)
SCALE: 1/4" = 1'-0"

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| C | CHECK PRINT |
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| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
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DESIGNED SGO
DRAWN MPB, KTL
CHECKED SRS

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*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING AERATION TANK - REMOVAL SECTIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 46 OF 166

PROJ. NO. 87054-2
FILE NO. 13019

92016

N

29"A ℄ EL 49.34

D 47|48

12"A ℄ EL 53.67

16"A ℄ EL 53.67

16"A ℄ EL. 53.67

PLUG

12"A

12"A

4"A

16"A

12"A

4"A

2" GLOBE VALVE (TYP.)

⊕ 62.00

C 47|48

℄ HANDRAIL (TYP)

26'-6"

26'-0"

25'-6"

33'-6"

26'-6"

10'-6"

10'-0"

4" BELL END DRAIN PIPE W/PLUG DRAIN VALVE (FLOW TYPE E-3088) TAP INTO 10"DW

REMOVABLE 1/4" ALUM TREAD PLATE (TYP)

2"FSW

2"FSW

2"FSW

2"FSW

2"FSW

2"FSW

SPRAY NOZZLE (TYP)

5'-0" N.T.S.

20'-0"

20'-0"

10'-0"

TANK NO. 1

2

3

4

5

6

LIGHT POLE

⊕ 63.75

12" CONC. WALL

℄ HANDRAIL (TYP)

℄ HANDRAIL (TYP)

2"FSW ℄EL. 65.75

A 12

6" CIP

1/4" ALUM. TREAD PLATE (TYP)

6" IDS

℄ HANDRAIL (TYP)

CONC. PAV'T.

8'-0"

⊕ 58.00

⊕ 60.25

DECANT P.S.

D 47|48

E 47|48

4"A

12'-0"

51'-8"

3'-10"

3'-10"

4"A

℄ EL 57.71 6" WS

℄ EL 59.00 6" PSL, PSC & ZDS

℄ EL 57.78 6" PSL & DE

6" EFW ℄ EL. 62.00

LEGEND

REMOVAL

EXISTING TO REMAIN

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| | |
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| REV. NO. | DATE | REVISION | BY |
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| | | | |

DESIGNED YCL
DRAWN MPB MTB
CHECKED SRS

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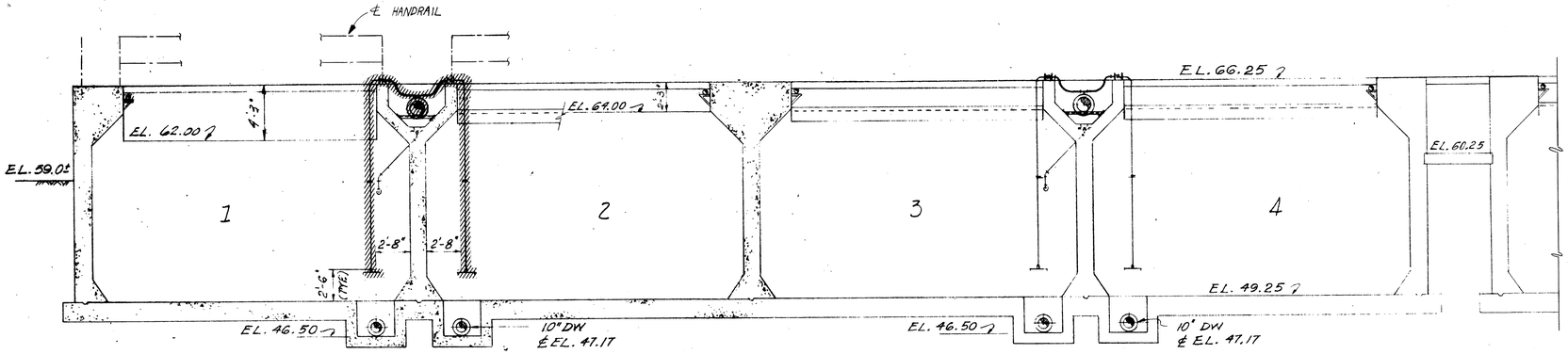
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING AEROBIC DIGESTER - REMOVAL PLAN
CLEARWATER, FLORIDA

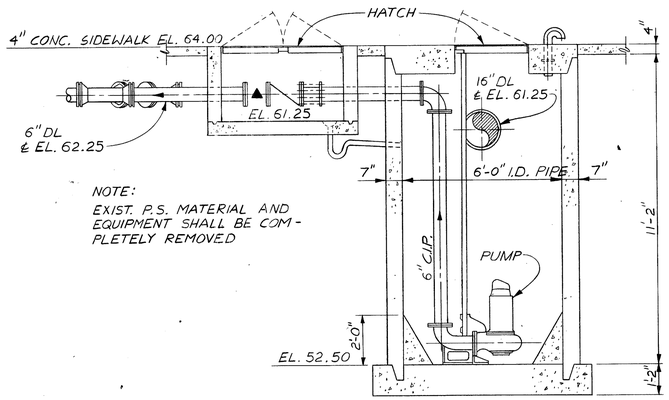
DATE: OCT. 1988
SCALE: 3/16"=1'-0"
SHEET NO. 47 OF 166

PROJ. NO. 87054-2
FILE NO. 13020

92016

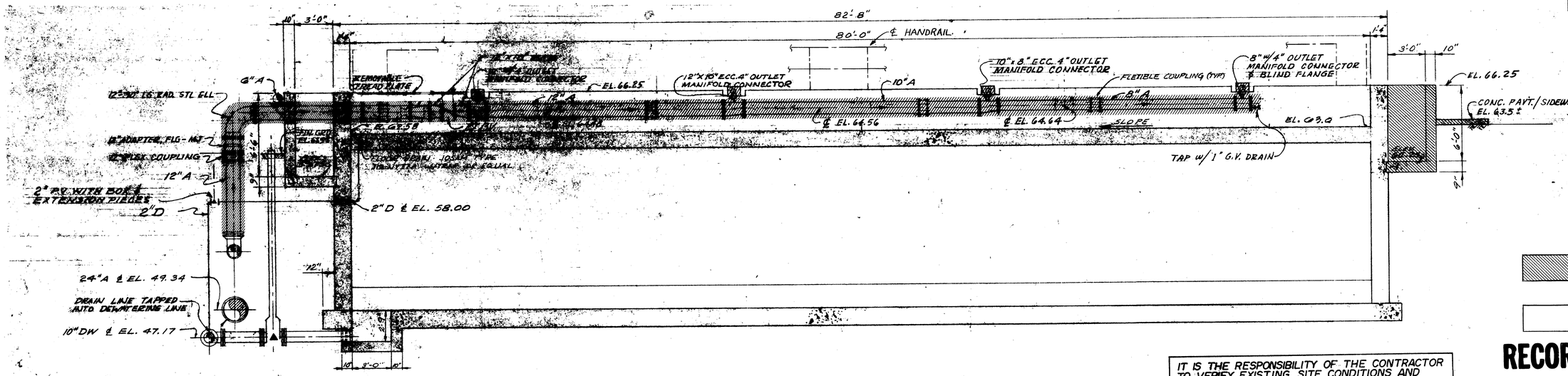



SECTION C
SCALE: 3/16" = 1'-0" 47|48




NOTE:
EXIST. P.S. MATERIAL AND EQUIPMENT SHALL BE COMPLETELY REMOVED

SECTION E
SCALE: 3/8" = 1'-0" 47|48




SECTION D
SCALE: 1/4" = 1'-0" 47|48

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LEGEND

REMOVAL

EXIST. TO REMAIN

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| REV. NO. | DATE | REVISION | BY |
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DESIGNED YCL
DRAWN MPB KTB
CHECKED SRS

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Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING AEROBIC DIGESTER - REMOVAL SECTIONS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 48 OF 166

PROJ. NO. 87054-2
FILE NO. 13021

92016

PRIMARY CLARIFIER

PRIMARY SLUDGE PUMP HOUSE

PRIMARY CLARIFIER

1-6"x6" TEE
1-6" PLUGVALVE
1-6" SOLID SLEEVE
CONNECT TO EXIST 6"

A 49|51

6"PSL ℄EL. 58.78

30" CP PRIMARY CLARIFIER EFFLUENT ℄EL. 59.75

CP TO DIP ADAPTER (TYP.)

30"x45° BEND (ROLLED 1¼" BELOW HORIZONTAL)

6"EFW ℄EL. 57.00

6"PSL ℄EL. 62.25

30"x11¼° BEND

6" SCUM

6" SC ℄EL. 62.25

6"EFW

3 53 (TYP.)

ESTABLISH ¼" FIELD

6"TDS ℄EL. 59.00

6"PSL

6"TDS

1¼" SAMPLE LINE TO SAMPLER IN EXIST. PRIMARY PUMP HOUSE

1 52

30" D.I.P. INV. EL. 49.50

48" D.I.P. INV. EL. 50.00

48" D.I.P. INV. EL. 50.20

67.00

36" D.I.P. INV. EL. 54.50

6"DL ℄EL. 62.25

18" RAS ℄EL. 56.50

6"PSL ℄EL. 62.25

C 48 49

30" DIP (TYP.)

18" RAS

60.25

24" TELESCOPING VALVE TYP. EA. TANK

30" WALL SLEEVE (TYP.)

CONC. EQSS AS REQ'D FOR WALL SLEEVE (TYP.)

67.25

60.25

66.25

EXIST. SLIDE GATE (TYP.)

18'-4"

13'-0"±

30'-0"± (ESTABLISH ¼" FIELD)

16'-0"

18'-4"

18'-4"

16'-4"

6" WALL SLEEVE ℄EL. 58.00

4'-6" (TYP.)

4'-6" (TYP.)

B 49 51

16'-4"

2'-0"

24'-0"

5'-0" (TYP.)

6'-0" (TYP.)

5'-0" (TYP.)

80" (TYP.)

4'-0" (TYP.)

20'-0" (TYP.)

℄ TANK

16"x24" COLUMN/ BASE (TYP.)

SECOND ANOXIC TANK No. 2

7 6 5 4 3 1

℄ HANDRAIL (TYP. ARRANGEMENT FOR EA. OF 10 TANKS)

66.25

49.25 (TANK BOT.)

SUBMERGED TURBINE MIXER - SEE SHT. 51 FOR MECH. DETAILS (TYP.)

66.25

34'-0"

MATCHLINE - SEE SHT. 50

25'-0"

1'-4"

25'-0"

1'-4"

25'-0"

1'-4"

5'-0"

1'-4"

25'-0"

1'-4"

FOR ANCHOR BOLT & PLATFORM OPENING DETAIL SEE SHT. 47 (TYP.)

25'-0"

66.25 (TYP.)

6"x4" REDUCER (TYP.)

25'-0" (TYP.)

BAFFLE WALL (TYP.)

17'-0"

12" (TYP.)

1'-0"

℄ EXIST. HANDRAIL (TYP.)

3 14

REAERATION TANK NO. 2

14

CHAIN

CHAIN

1

14

6"SS. AIR (TYP.)

59.75

2 52

66.25

EXIST. 6" S.S. AIR

CONNECT TO EXIST 6" AIR

EXIST. 4" S.S. AIR

18" S.S. AIR ℄ EL. 57.00

DIFFUSER ARRANGEMENT (TYP. 10 PLACES) SEE DETAILS SHT. 53

FACE OF EXIST. TANK WALL

1" EXP. JT. 10" 4'-0" 10" 5'-8"

#5@12"EW

EL. 60.25

#5@12" EW

EL. 56.25

10" 3'-2" 5'-0" 12"

#5@12 EW

SECTION C
SCALE: 3/8" = 1'-0" 49|49 50

FACE OF EXIST. TANK WALL

1" EXP. JT. 10" 3'-0" 10" 4'-8"

#5@12"EW

EL. 60.25

#5@12" EW

EL. 56.25

10" 3'-2" 5'-0" 12"

#5@12 EW

SECTION D
SCALE: 3/8" = 1'-0" 50|49

#6@12 T&B 13" #6@6"T&B 6" #6@12" T&B 6" #6@6"T&B 12" #6@12 T&B

3#7 BOT. 3#6 TOP

L2#6T&B

STIRRUP

9" 19"

2#7 BOT. 2#6 TOP

12"x24" COL. BELOW

2'-6 5'-0 2'-0 5'-0 2'-0 5'-0 2'-6 8"

TYPICAL PLATFORM PLAN SCALE: 3/8"=1'-0"

PLAN
SCALE: ½" = 1'-0"

ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/ OR UNDERGROUND SHALL BE 304 STAINLESS STEEL, SCHEDULE 5. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

LEGEND

EXISTING

PROPOSED

REMOVE OR ABANDON AS REQUIRED FOR CONST.

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# RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|

DESIGNED YCL
DRAWN KAF KCS
CHECKED YCL

ENGINEER OF RECORD:

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

SECOND ANOXIC & REAERATION TANKS - PLAN

CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 49 OF 166
PROJ. NO. 87054-2
FILE NO. 13022

92016

LIMIT OF WORK UNDER E.O. 015 ⚠

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

SECTION Q
SCALE: 3/16" = 1'-0" ⚠

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

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ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE 304 STAINLESS STEEL, SCHEDULE 5. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

LEGEND
- EXISTING
- PROPOSED
- REMOVE OR ABANDON AS REQUIRED FOR CONST.

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 7-10-91 | RECORD DRAWING | DMP |
| 1 | 10-3-90 | REVISED AIR PIPING, ADDED BOX PER E.O. 015 | RAP |

DESIGNED YCL JTS
DRAWN RAP RSG
CHECKED YCL
ENGINEER OF RECORD:

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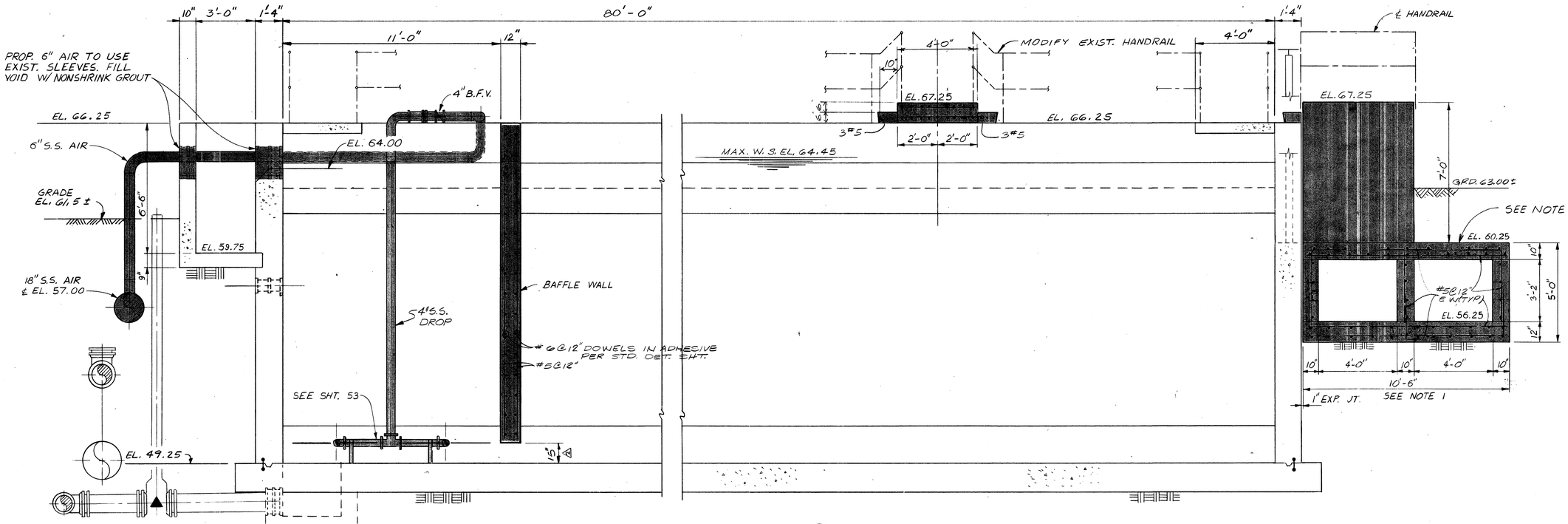
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SECOND ANOXIC & REAERATION TANKS & SLUDGE HOLDING TANKS-PLAN
CLEARWATER, FLORIDA

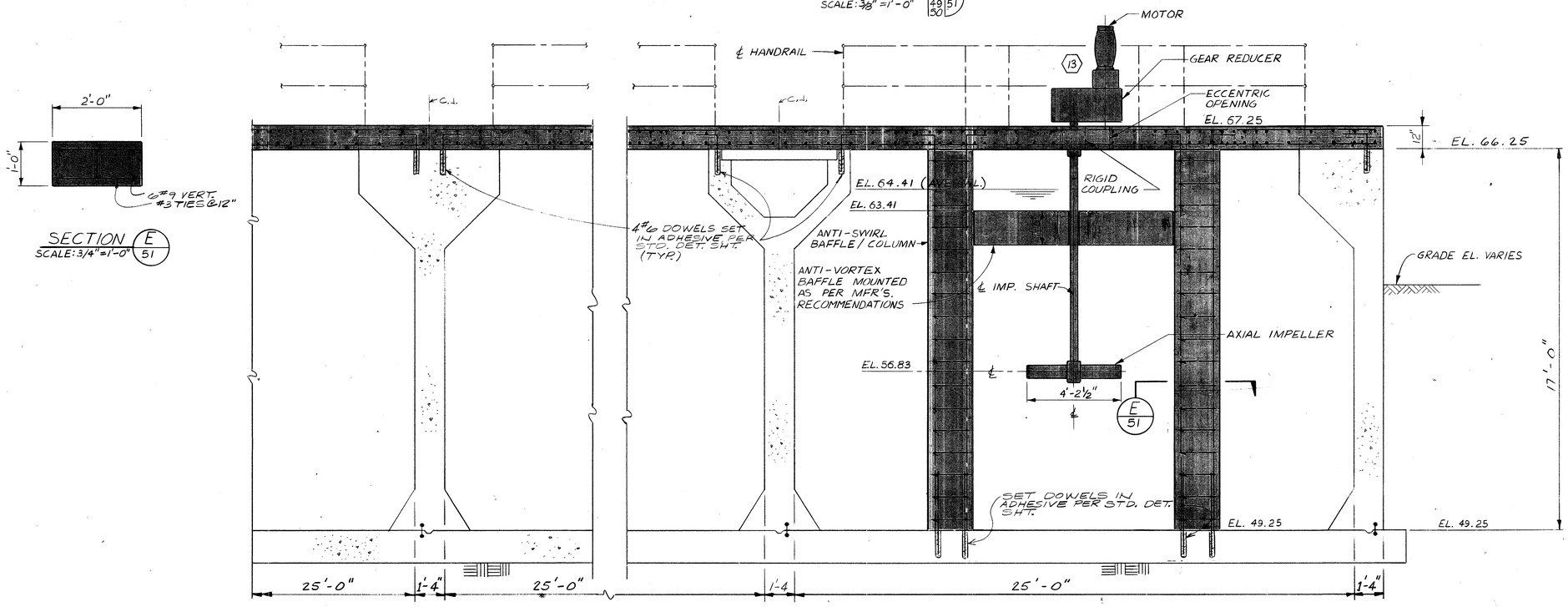
DATE: OCT. 1988
SCALE: 1/8" = 1'-0"
SHEET NO. 50 OF 166

PROJ. NO. 87054-2
FILE NO. 13023

92016




SECTION (A) 49|50|51
SCALE: 3/8" = 1'-0"




SECTION (B) 49|50|51
SCALE: 3/8" = 1'-0"




SECTION (E) 51
SCALE: 3/4" = 1'-0"

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## NOTES:

1. CULVERT SHOWN FOR DOUBLE BARREL CONDITION. FOR OTHER CONDITIONS SEE SECTIONS ON SHT. 49.

**NOTE 1**
ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061 - STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

# RECORD DRAWING

LEGEND

EXISTING

PROPOSED

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 4-21-92 | RECORD DRAWING | DMP |
| 1 | 5-3-91 | REVISED AS PER ADDENDUM NO. 1 | BVB |

DESIGNED YCL VTS
DRAWN RAP RSG
CHECKED SRS

ENGINEER OF RECORD:

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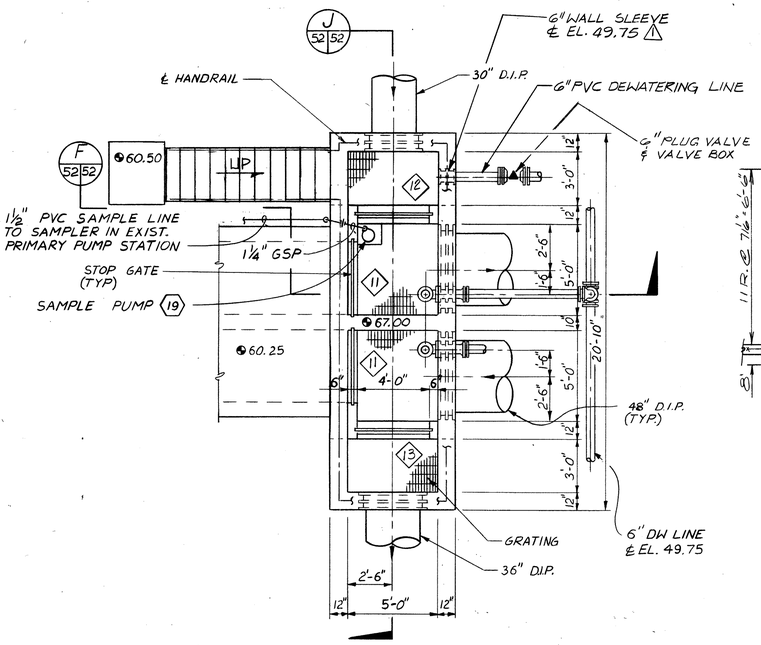
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SECOND ANOXIC & REAERATION TANKS - SECTIONS**
CLEARWATER, FLORIDA

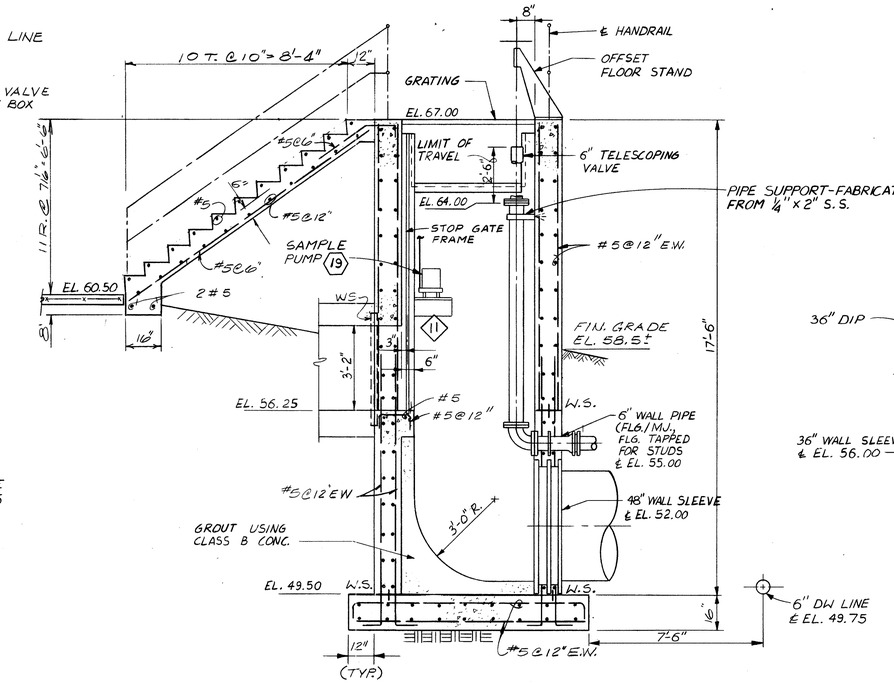
DATE: OCT. 1988
SCALE: 3/8" = 1'-0"
SHEET NO. 51 OF 166

PROJ. NO. 87054-2
FILE NO. 13024

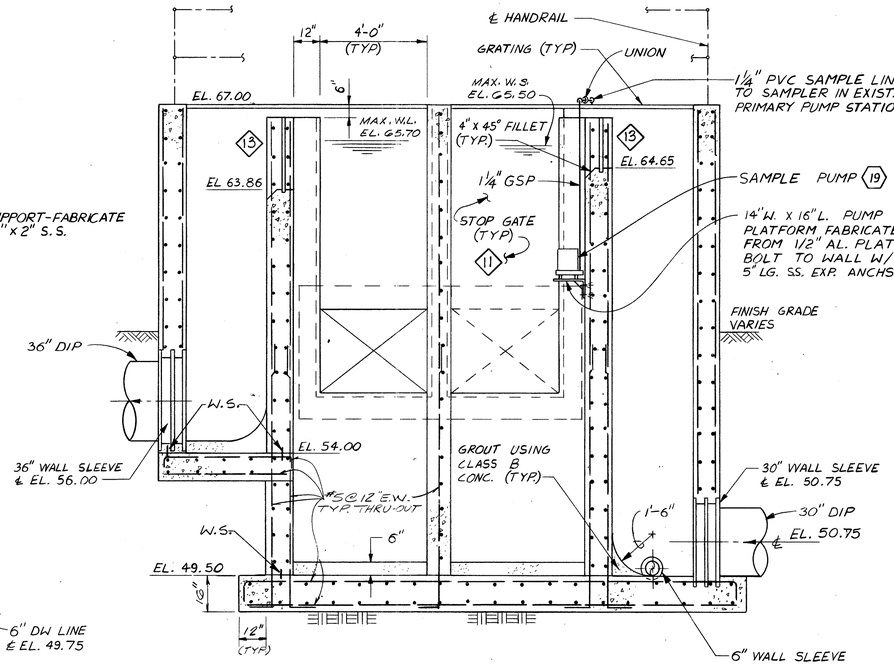
92016



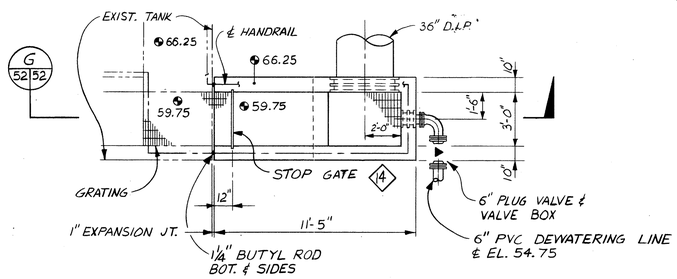

FLOW DIVERSION STRUCTURE DETAIL 1 52
SCALE: 1/4" = 1'-0"



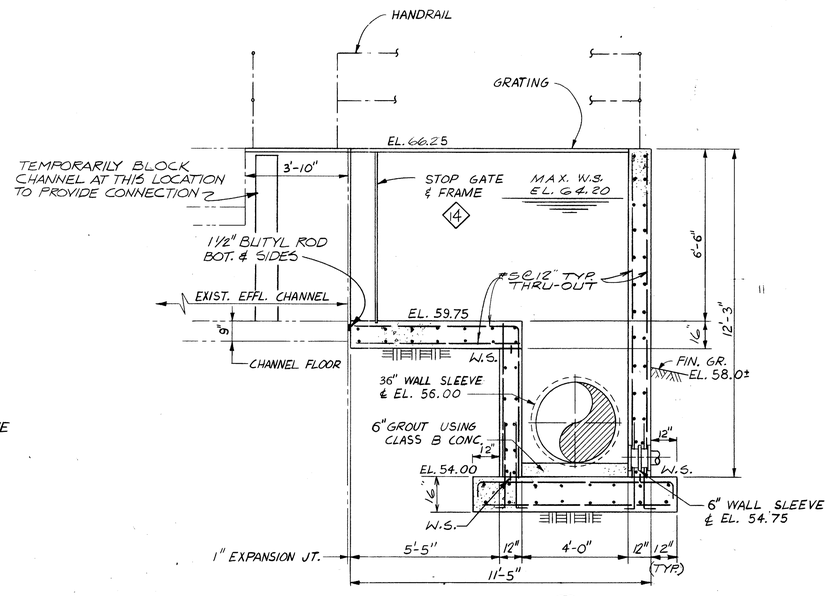

SECTION F 52|52
SCALE: 3/8" = 1'-0"




SECTION J 52|52
SCALE: 3/8" = 1'-0"




DETAIL 2 52
SCALE: 1/4" = 1'-0"




SECTION G 52|52
SCALE: 3/8" = 1'-0"

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# RECORD DRAWING

LEGEND

EXISTING

PROPOSED

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
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| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
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| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 7-17-91 | RECORD DRAWING | WLS |

DESIGNED YCL JTS
DRAWN WLS RAP
CHECKED YCL
ENGINEER OF RECORD:

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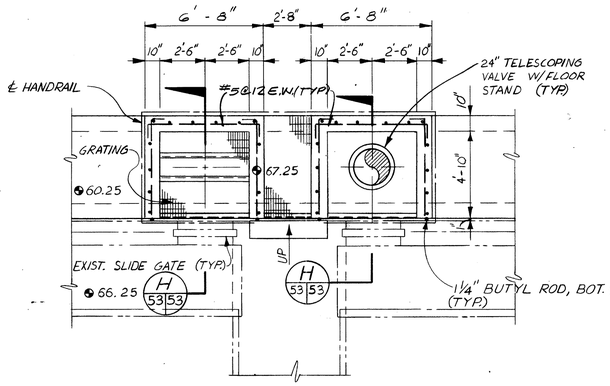
Ormond Beach - Clearwater - Bradenton, Florida

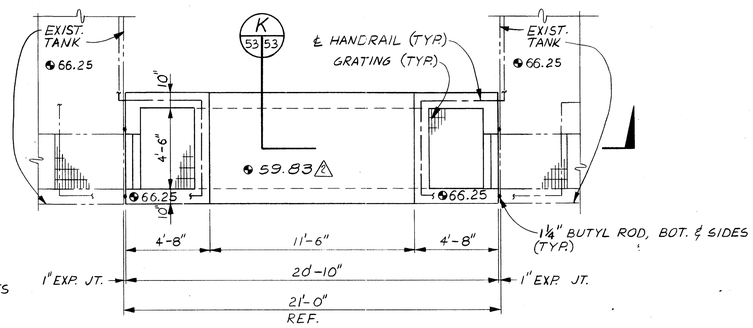
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SECOND ANOXIC TANK & REAERATION TANKS-
SECTIONS & DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 52 OF 166
PROJ. NO. 87054-2
FILE NO. 13025

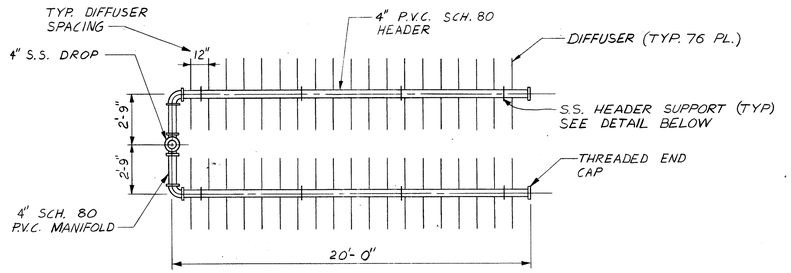
92016



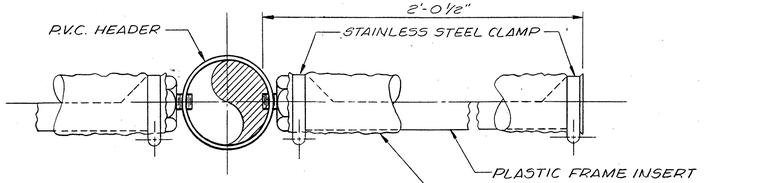

DETAIL 3 / 53
SCALE: 1/4" = 1'-0"



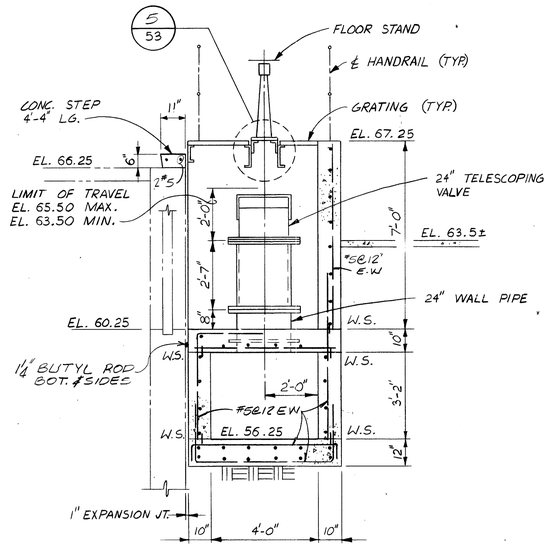

DETAIL 4 / 53
SCALE: 1/4" = 1'-0"



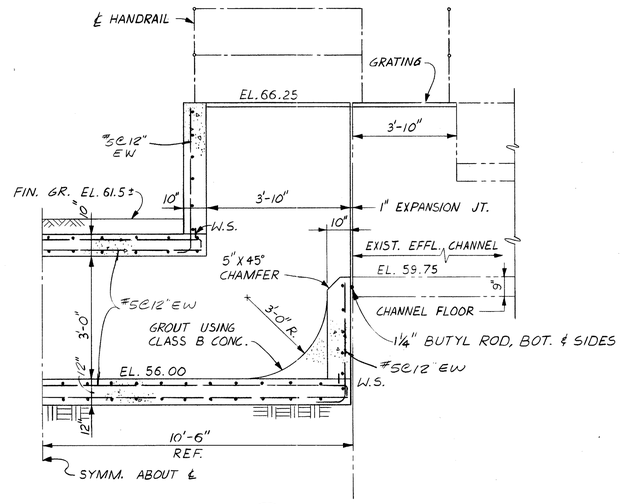

REAERATION DIFFUSER GRID 14
SCALE: 1/4" = 1'-0"



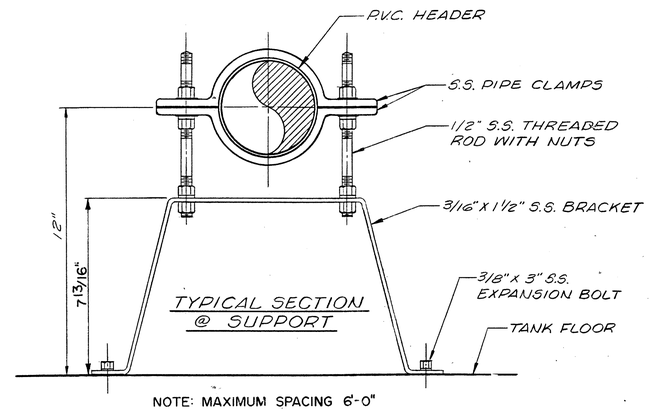

TYPICAL SECTION @ DIFFUSER
NOT TO SCALE




SECTION H 53|53
SCALE: 3/8" = 1'-0"




SECTION K 53|53
SCALE: 3/8" = 1'-0"




TYPICAL SECTION @ SUPPORT

NOTE: MAXIMUM SPACING 6'-0"

AIR DIFFUSER AND SUPPORT DETAILS
NOT TO SCALE
(TYPICAL FOR REAERATION DIFFUSER GRID)

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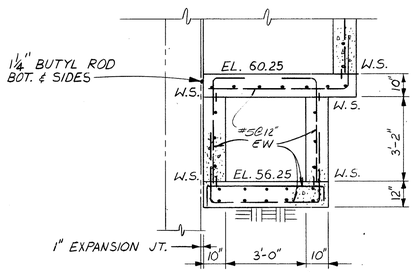
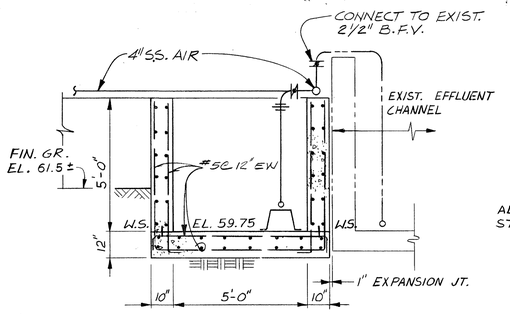
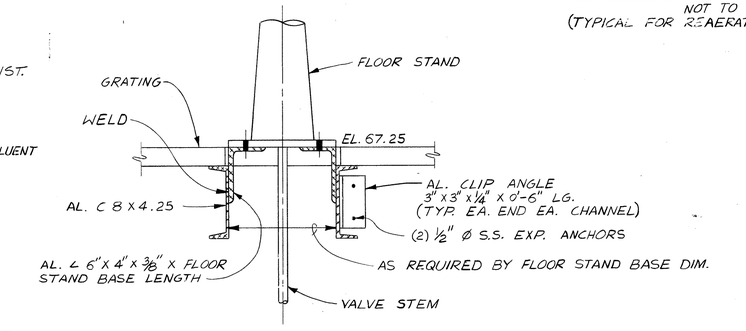



SECTION M 50|53
SCALE: 3/8" = 1'-0"




SECTION L 50|53
SCALE: 3/8" = 1'-0"




DETAIL 5 / 53
SCALE: 1½" = 1'-0"

**NOTE**
ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061 - STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

LEGEND

EXISTING

PROPOSED

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
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| 0 | RELEASED FOR CONSTRUCTION |
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| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 7-17-91 | RECORD DRAWING | WLS |
| 1 | 5-31-89 | REVISED AS PER ADDENDUM NO. 1 | BVB |

DESIGNED YCL JTS
DRAWN SSG RAP
CHECKED SRS

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:

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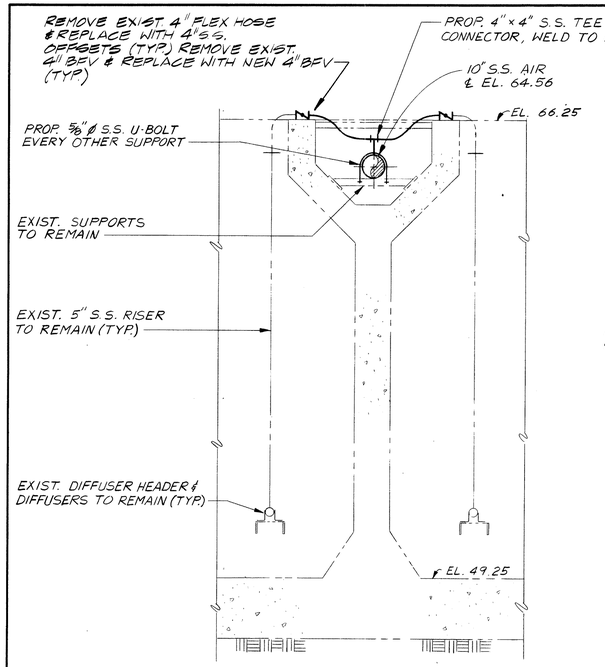
*Ormond Beach - Clearwater - Bradenton, Florida*

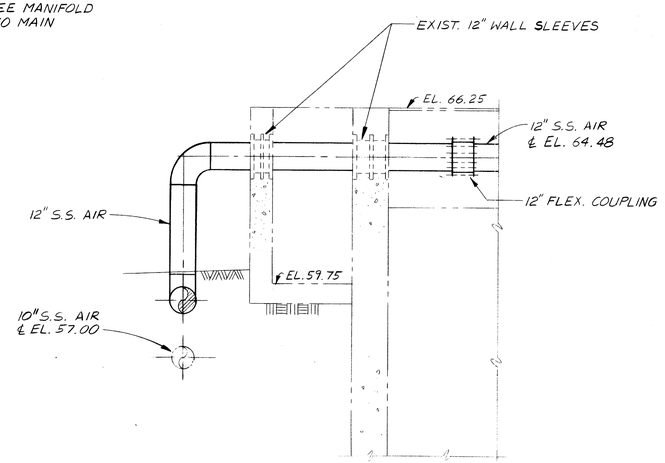
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SECOND ANOXIC TANK & REAERATION TANKS-SECTIONS & DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 53 OF 166
PROJ. NO. 87054-2
FILE NO. 13026

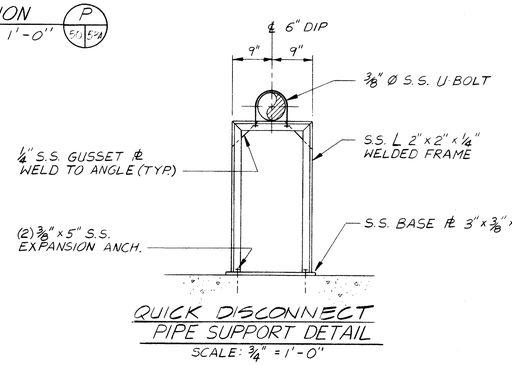
92016



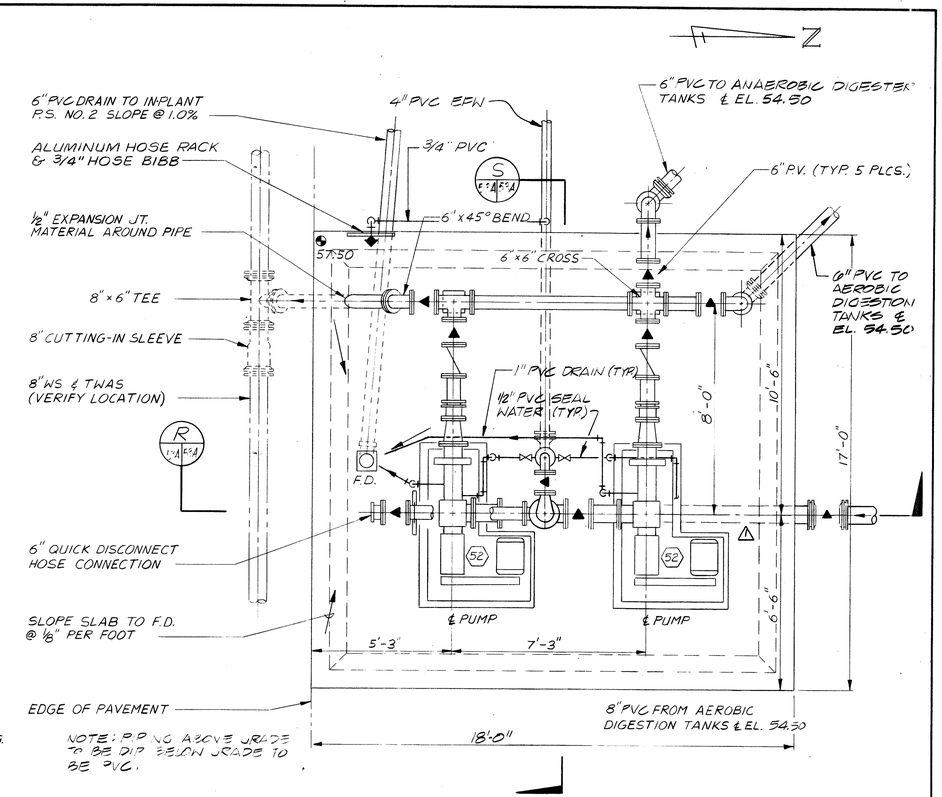

SECTION ⓞ
SCALE: 3/8" = 1'-0"



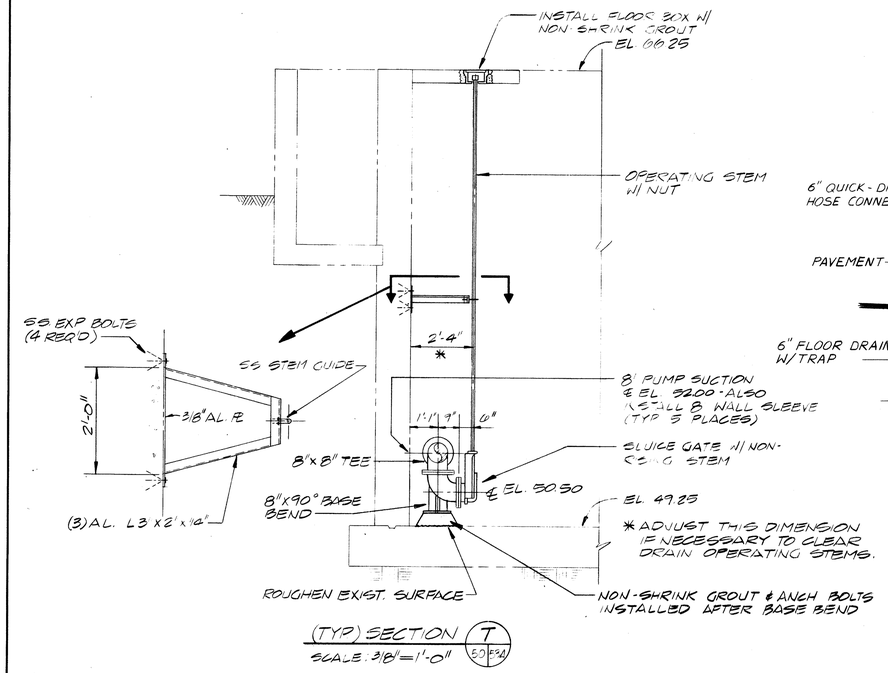

SECTION Ⓟ
SCALE: 3/8" = 1'-0"



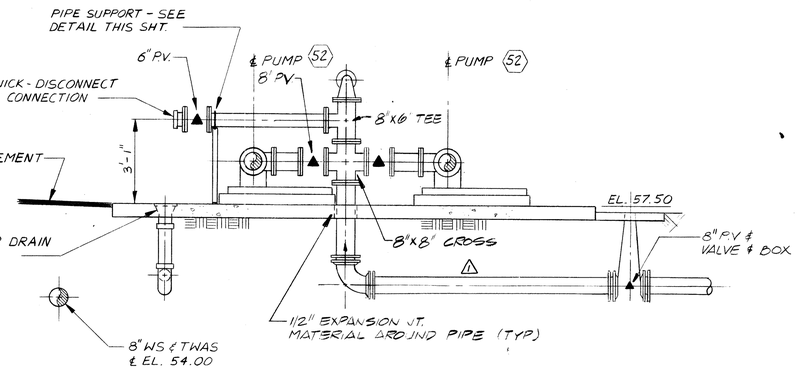

QUICK DISCONNECT PIPE SUPPORT DETAIL
SCALE: 3/4" = 1'-0"



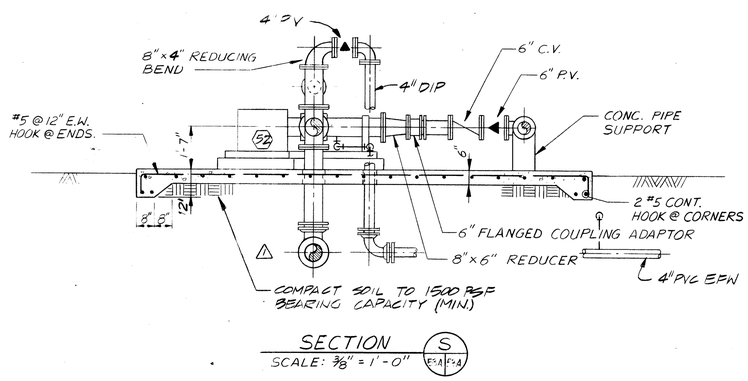

PLAN - SLUDUE TRANSFER STATION
SCALE: 3/8" = 1'-0"




(TYP.) SECTION Ⓣ
SCALE: 3/8" = 1'-0"




SECTION Ⓡ
SCALE: 3/8" = 1'-0"




SECTION Ⓢ
SCALE: 3/8" = 1'-0"

LEGEND

EXISTING

REMOVAL

PROPOSED

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# RECORD DRAWING

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|---|---|
| RD | 4-21-92 |
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| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

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DESIGNED SGO
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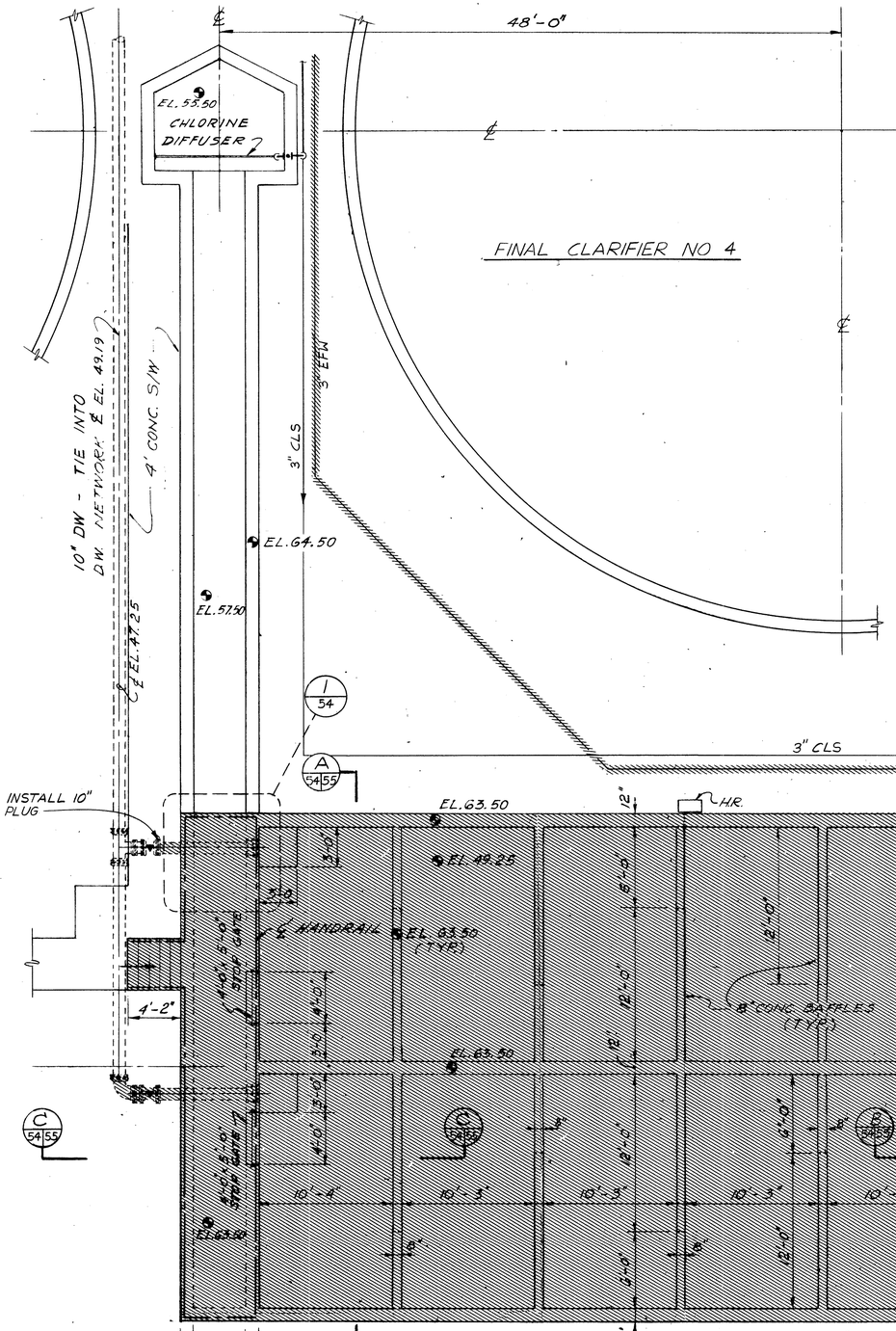
*Ormond Beach - Clearwater - Bradenton, Florida*

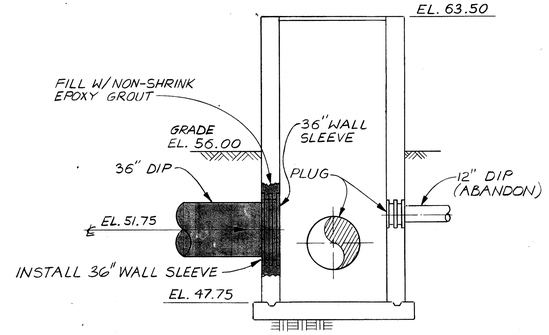
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SLUDGE TRANSFER STATION & SLUDGE HOLDING TANKS-PLAN, SECTIONS & DETAILS**
CLEARWATER, FLORIDA

DATE: SEP. 1990
SCALE: AS SHOWN
SHEET NO. 53A OF 166

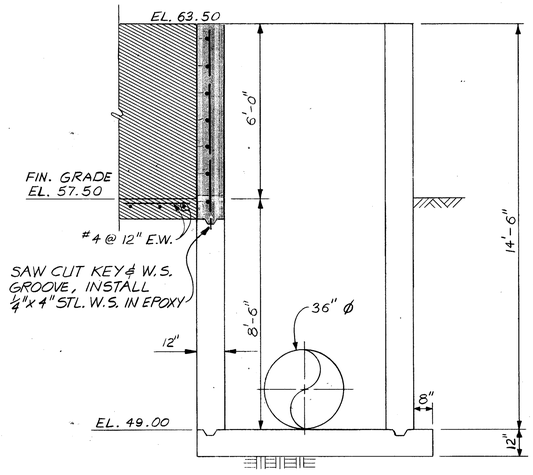
PROJ. NO. 87054-2
FILE NO. 13026-A

92016

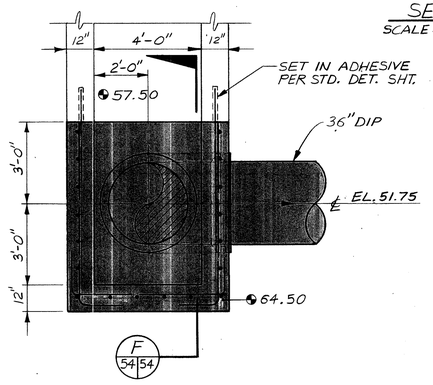



SECTION E
SCALE: 1/4" = 1'-0" (54|54)

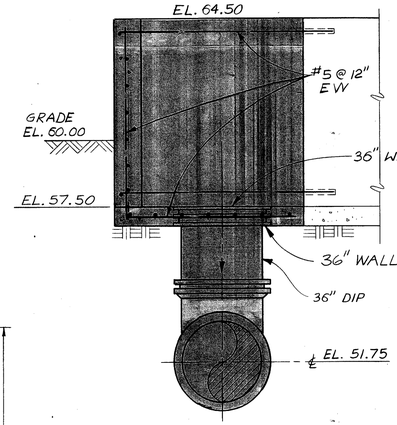



SECTION D
SCALE: 3/8" = 1'-0" (54|54)

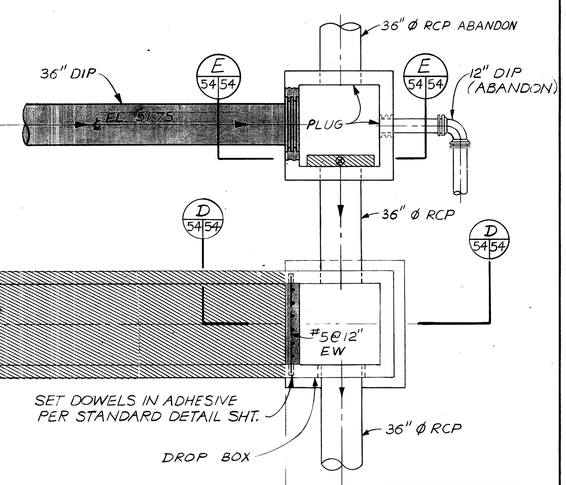



F 54|54

DETAIL I 54
SCALE: 3/8" = 1'-0"




SECTION F
SCALE: 3/8" = 1'-0" (54|54)

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LEGEND

- EXISTING STRUCTURE TO REMAIN
- REMOVAL
- PROPOSED
- 36" ø RCP ABANDON

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AND COMPARE WITH THESE PLANS TO INSURE ADEQUATE PERFORMANCE AND COST ESTIMATION TO COMPLETE THE JOB AS SPECIFIED.

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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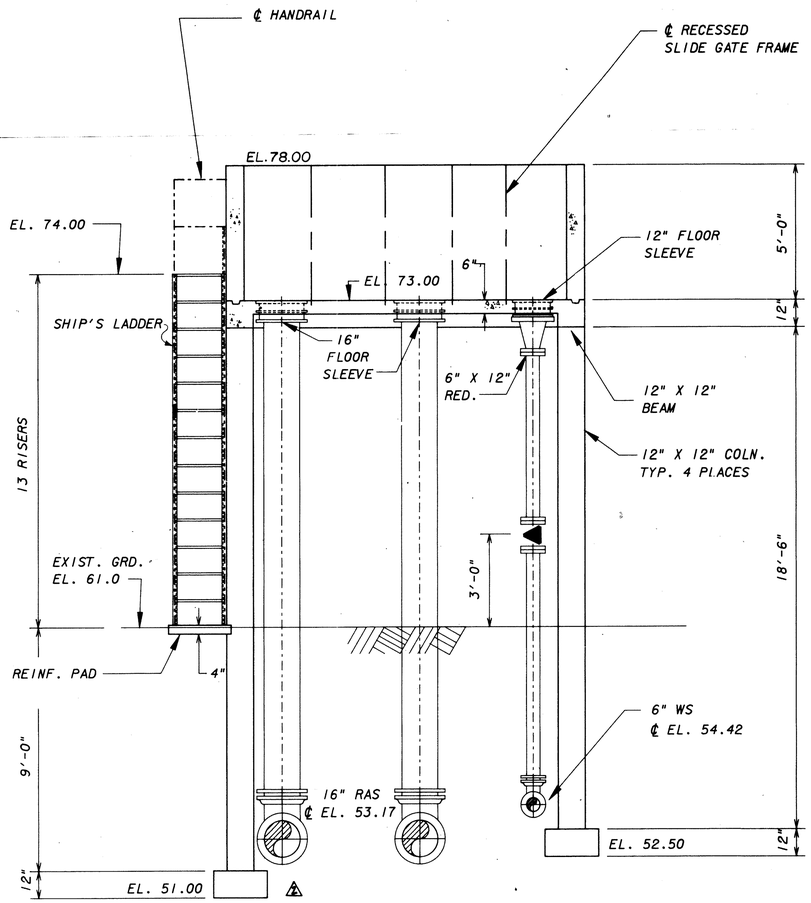
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING CHLORINE CONTACT TANK DEMOLITION PLAN**
CLEARWATER, FLORIDA

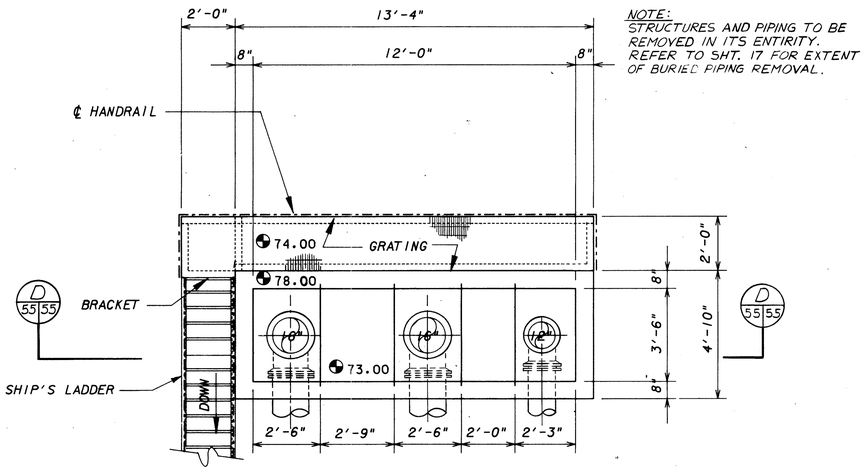
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 54 OF 166
PROJ. NO. 87054-2
FILE NO. 13027

92016




## SECTION D 55|55

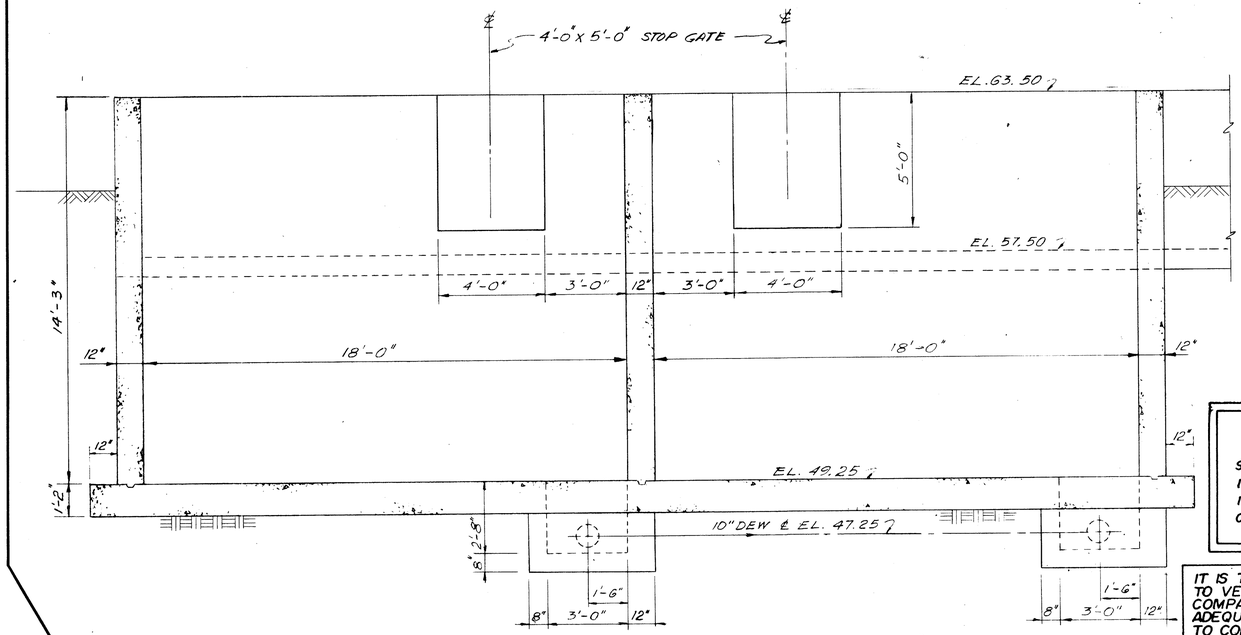
SCALE: 3/8" = 1'-0"




NOTE:
STRUCTURES AND PIPING TO BE REMOVED IN ITS ENTIRITY. REFER TO SHT. 17 FOR EXTENT OF BURIED PIPING REMOVAL.

## SLUDGE SPLITTER BOX - PLAN

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



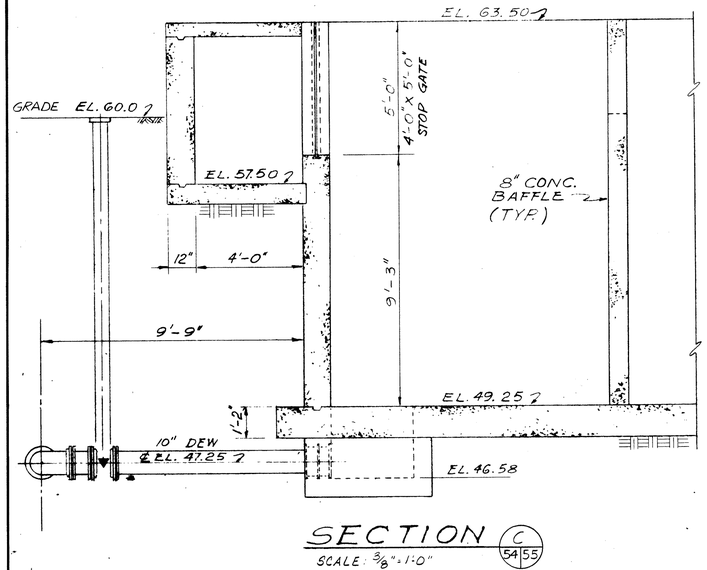

## SECTION A 54|55

SCALE 3/8" = 1'-0"

### NOTICE TO CONTRACTOR

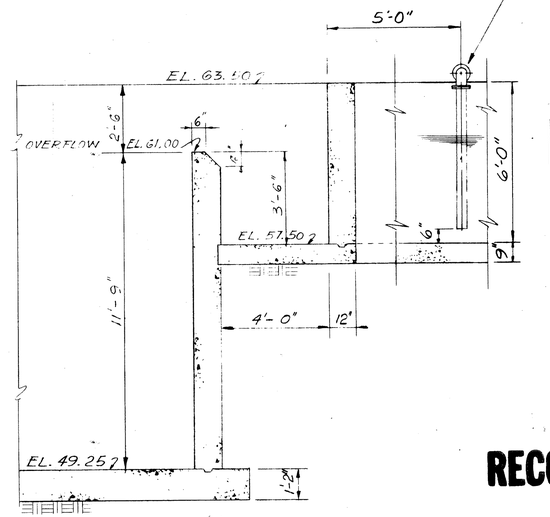
STRUCTURE SHOWN IS TO BE DEMOLISHED IN IT'S ENTIRETY. THIS DWG. HAS BEEN INCLUDED FOR REFERENCE ONLY. NO NEW CONSTRUCTION IS PROPOSED ON THIS DWG.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AND COMPARE WITH THESE PLANS TO INSURE ADEQUATE PERFORMANCE AND COST ESTIMATION TO COMPLETE THE JOB AS SPECIFIED.




## SECTION C 54|55

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




## SECTION B 54|55

SCALE 3/8" = 1'-0"

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| STATUS | ACTION DATE |
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| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| RD | RECORD DRAWING |

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DESIGNED YCL | DRAWN RSG | CHECKED SRS

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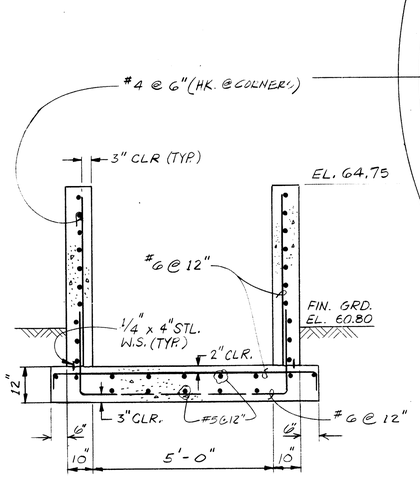
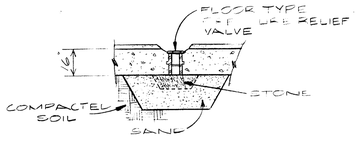
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING CHLORINE CONTACT TANK & SLUDGE SPLITTERBOX - DEMOLITION
CLEARWATER, FLORIDA

DATE: OCT. 1988 | PROJ. NO. 87054-2
SCALE: AS SHOWN | FILE NO. 13028
SHEET NO. 55 OF 166

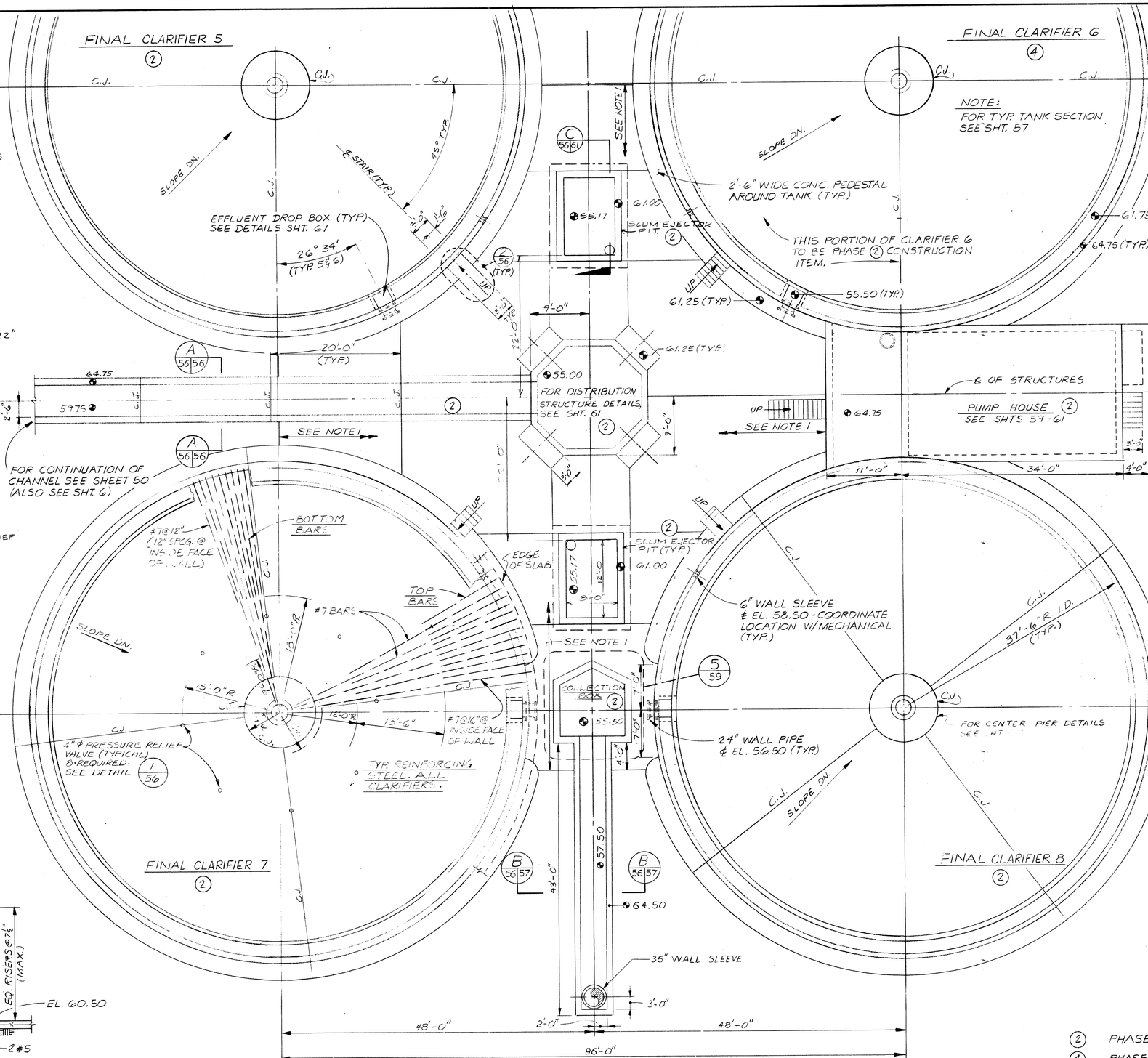
92016



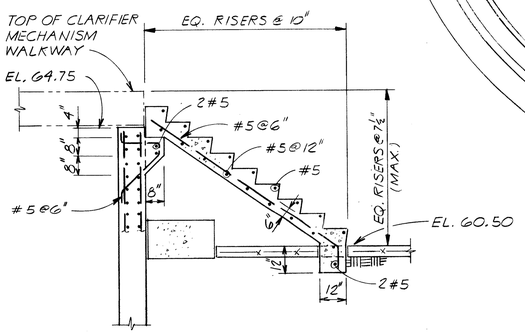

SECTION
SCALE: 1/2" = 1'-0" (A 56|56)




DETAIL (1 56)
N.T.S.




PLAN (1)
SCALE: 1/8" = 1'-0"




STAIR DETAIL (2 56)
SCALE: 1/2" = 1'-0"

NOTES:

1. AREA BETWEEN TANKS TO EXTENTS SHOWN ON PLAN SHALL BE PAVED W/ 5" CONC. SLAB W/ 6x6 # 6/6 WWF. SEE SHEET 8 FOR ELEVATIONS.

(2) PHASE 2 CONSTRUCTION ITEM
(4) PHASE 4 CONSTRUCTION ITEM

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| RD | RECORD DRAWING |

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DESIGNED JTS | DRAWN RMO | CHECKED SRS

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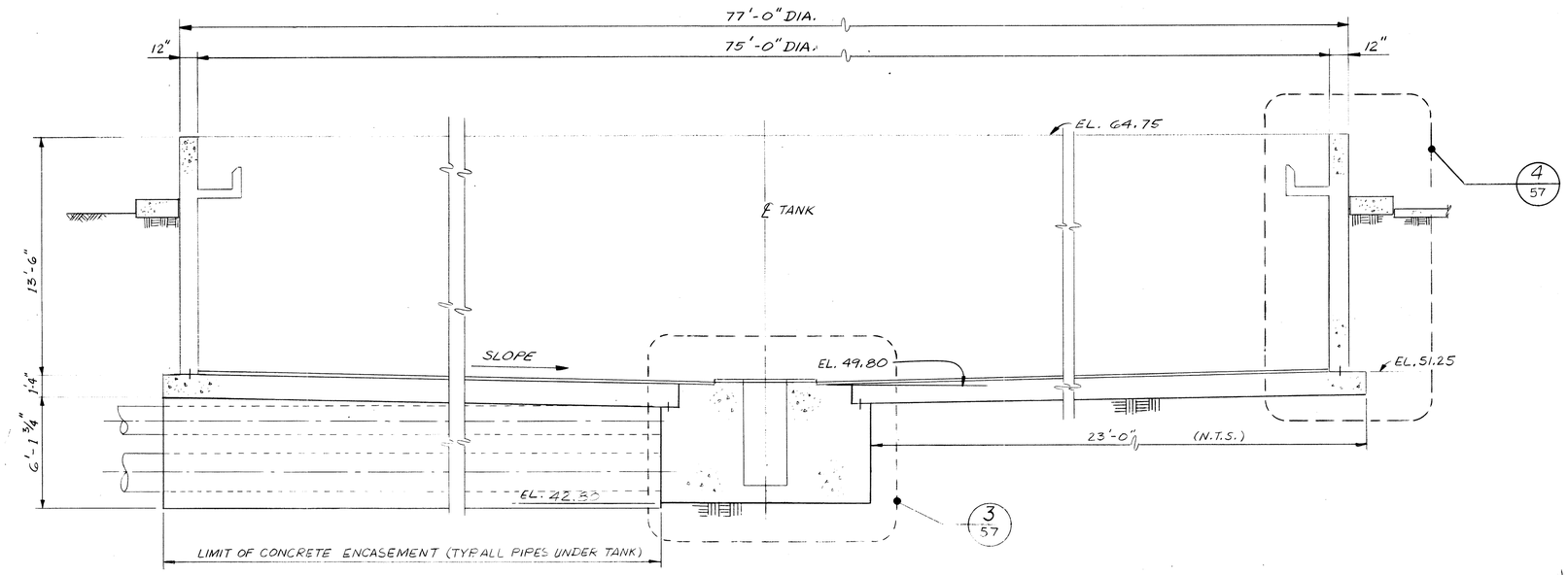
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FINAL CLARIFIERS- STRUCTURAL PLAN**
CLEARWATER, FLORIDA

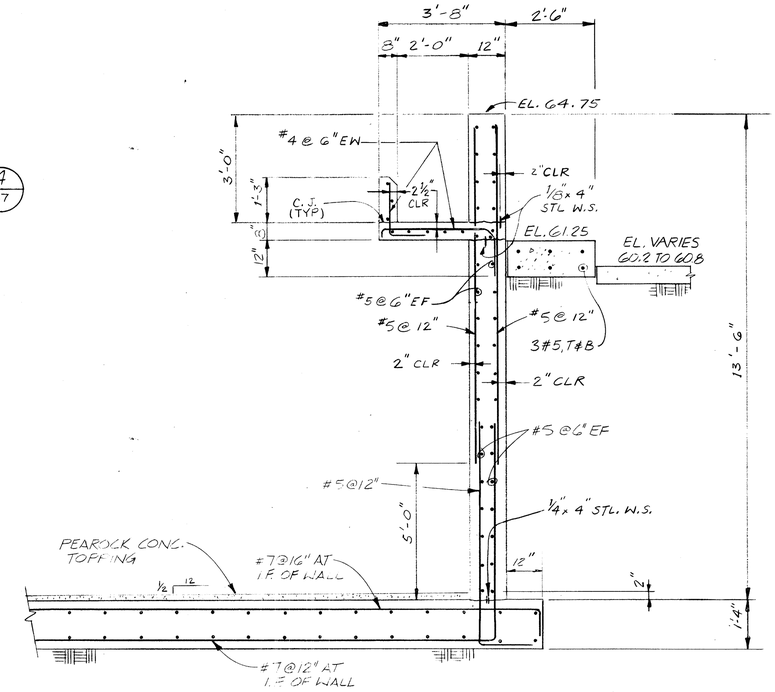
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 56 OF 166
PROJ. NO. 87054-2
FILE NO. 13029

92016




TYPICAL SECTION

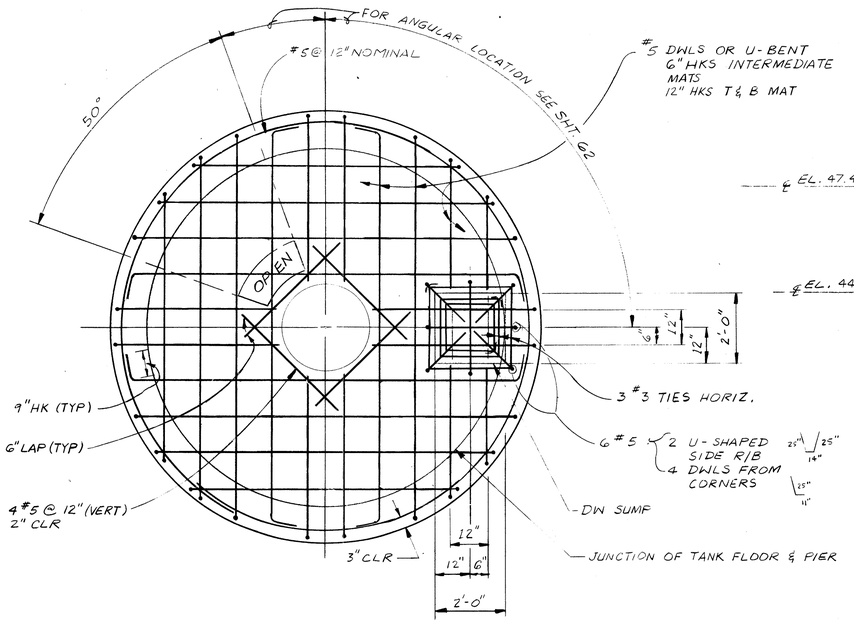
SCALE: ¼" = 1'-0"




TYPICAL WALL SECTION

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

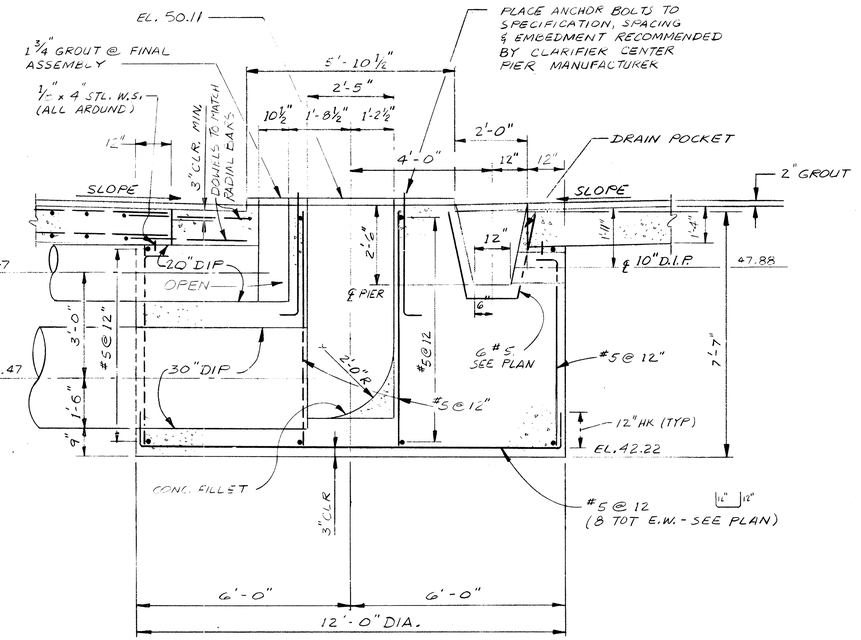
4
57




TYP. HORIZ. MAT. SHOWN

PLAN - PIER

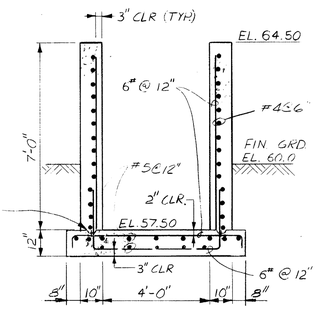
SCALE: ½" = 1'-0"




DETAIL

SCALE: ½" = 1'-0"

3
57




SECTION B

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

56 57

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| A | APPROVAL |
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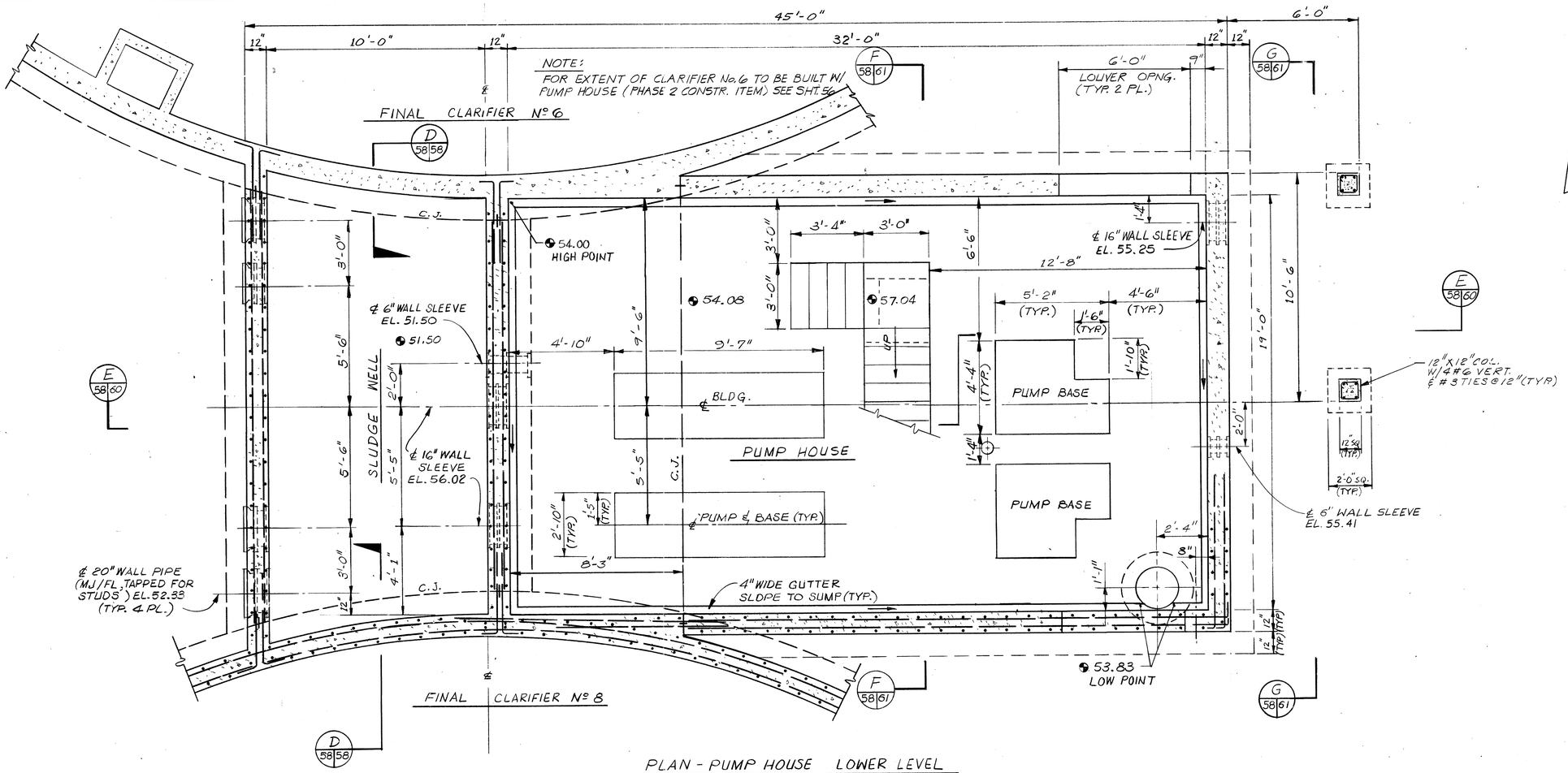
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FINAL CLARIFIERS-**
**STRUCTURAL SECTIONS**
CLEARWATER, FLORIDA

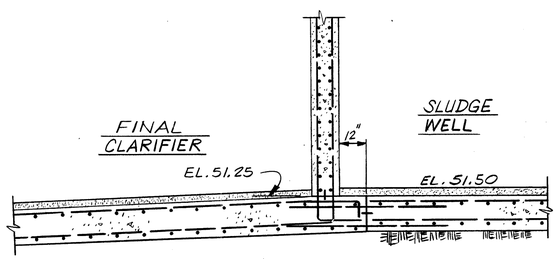
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 57 OF 166

PROJ. NO. 87054-2
FILE NO. 13030

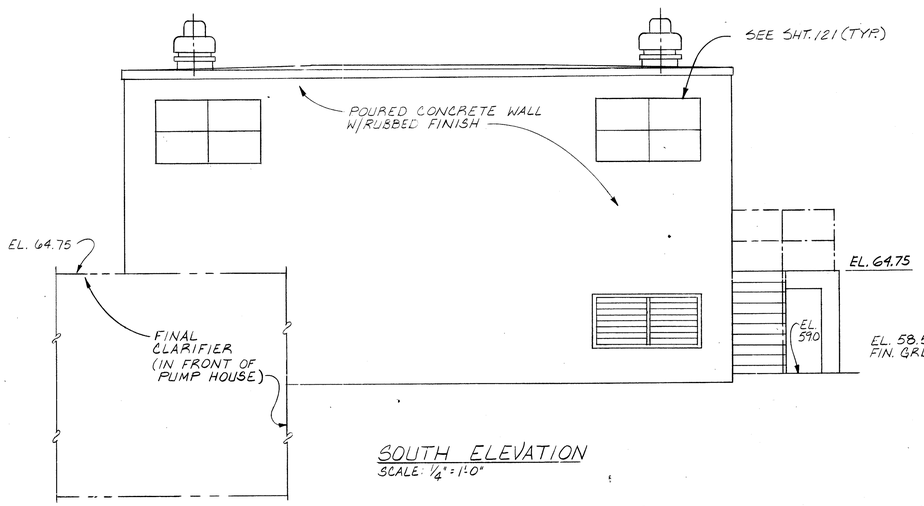
92016



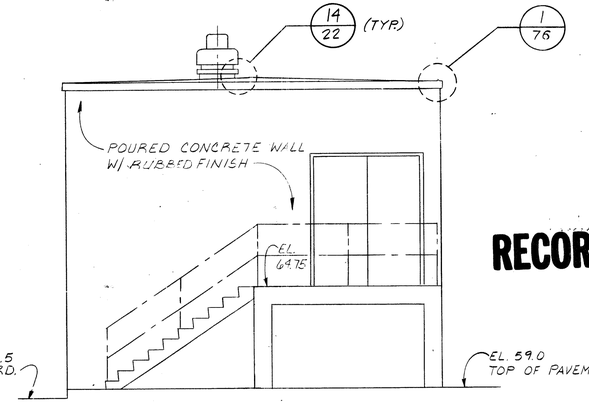

PLAN - PUMP HOUSE LOWER LEVEL
SCALE: 3/8" = 1'-0"




SECTION D 58|58
SCALE: 3/8" = 1'-0"




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




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

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
FINAL CLARIFIERS-
STRUCTURAL PLAN & ARCH. ELEV'S (PUMP HOUSE)
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 58 OF 166
PROJ. NO. 87054-2
FILE NO. 13038

92016

NOTE:
FOR EXTENT OF CLARIFIER No. 6 TO BE BUILT WITH PUMP HOUSE (PHASE 2 CONSTR. ITEM) SEE SHT. 56

FINAL ℄ CLARIFIER No. 6

FINAL CLARIFIER No. 8

OPENING FOR TELESCOPING VALVES (TYP. 2PL)

MANHOLE FRAME & COVER (NEENAH R-1766-B OR EQUIV.)

SLUDGE WELL (ROOF SLAB)

PUMP HOUSE

℄ BLDG

DOWN

OPENING FOR 5'-0"x5'-0" FLOOR HATCH (TYP 2 PL.)

WINDOW OPNG. (TYP.) 3 PLACES

5408 · 57.05 · 64.75 · 55.50 · 64.50 · 57.50

#5@12"T · #5@12" TEMP. · 6" SLAB #3@6" BOT. #5@12" TEMP. · 6" SLAB #5@6"EW BOT.

34'-0" · 6'-0" · 11'-0" · 10'-0" · 7'-3" · 12'-8" · 6'-4" · 5½" · 3'-0" · 21'-0" · 8'-6" · 6'-4" · 4'-6" · 5'-0" · 10'-0" · 4'-3" · 1'-6" · 5'-6" (TYP.) · 3'-4" · 3'-0" · 2'-6" · 6'-8½" · 2'-5½" · 3'-1⅜6" · 5'-7⅛6" · 7'-6" · 2'-0" · 4'-0" · 3'-2" · 5'-0" · 12'-0"

PLAN - PUMP HOUSE UPPER LEVEL
SCALE: 3/8" = 1'-0"

DETAIL 5 / 59
SCALE: 3/8" = 1'-0"

SECTION H / 59 59
SCALE: 3/8" = 1'-0"

EL. 64.50 · EL. 60.3 · EL. 55.50 · TYP. WALL REINF.: #5@12" E.W., E.F. · 6" CLASS B CONC. · 24" WALL SLEEVE ℄ EL. 56.50 (TYP. 4 PL.) · ½"x4" STL W.S. (TYP.) · #5@12" E.W., T&B

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Ormond Beach - Clearwater - Bradenton, Florida


NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

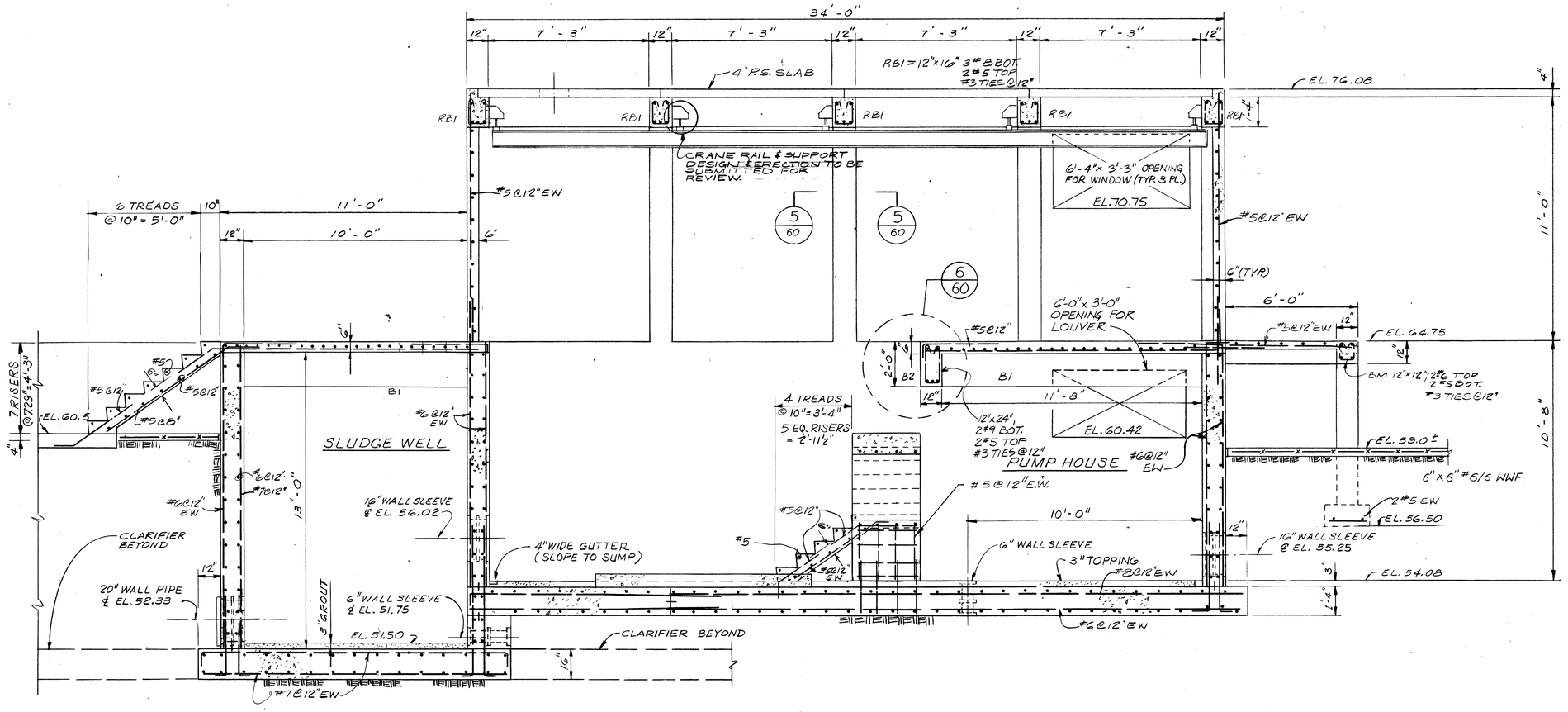
FINAL CLARIFIERS-STRUCTURAL PLAN (PUMP HOUSE)

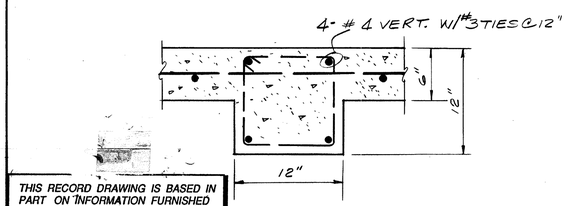
CLEARWATER, FLORIDA

DATE: OCT. 1988 · SCALE: 3/8"=1'-0" · SHEET NO. 59 OF 166

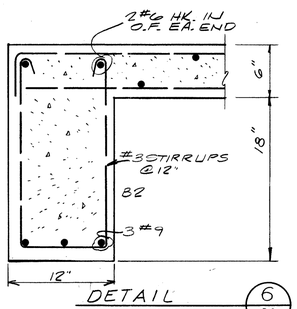
PROJ. NO. 87054-2 · FILE NO. 13032

92016



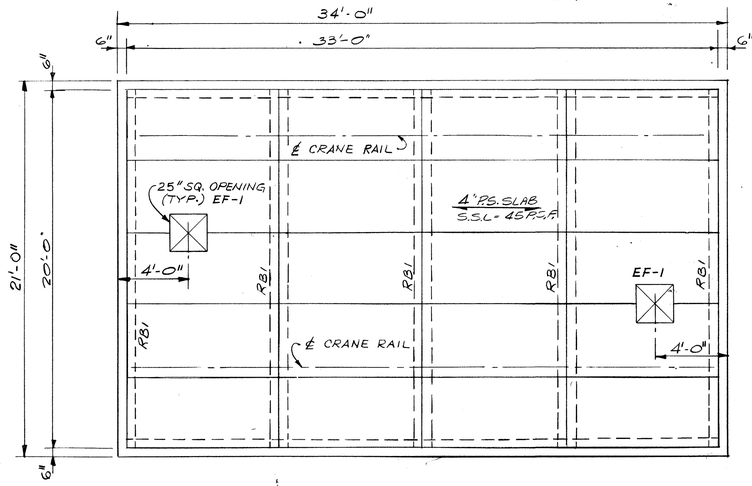




DETAIL 5/60
SCALE: 1 1/2" = 1'-0"

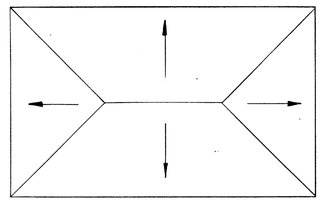



DETAIL 6/60
SCALE: 1 1/2" = 1'-0"

SECTION E 58/59/60
SCALE: 3/8" = 1'-0"




ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



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

NOTES:

△1. INSTALLATION OF PRESTRESSED CONCRETE ROOF SLAB UNITS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
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| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

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| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| △2 | 5/31/89 | REVISED PER ADDENDUM #2 | SGO |

DESIGNED JTS | DRAWN KENT | CHECKED GRS | ENGINEER OF RECORD:

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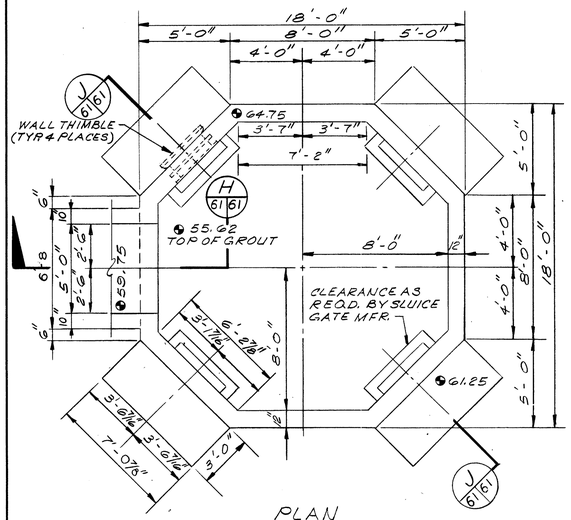
Ormond Beach - Clearwater - Bradenton, Florida

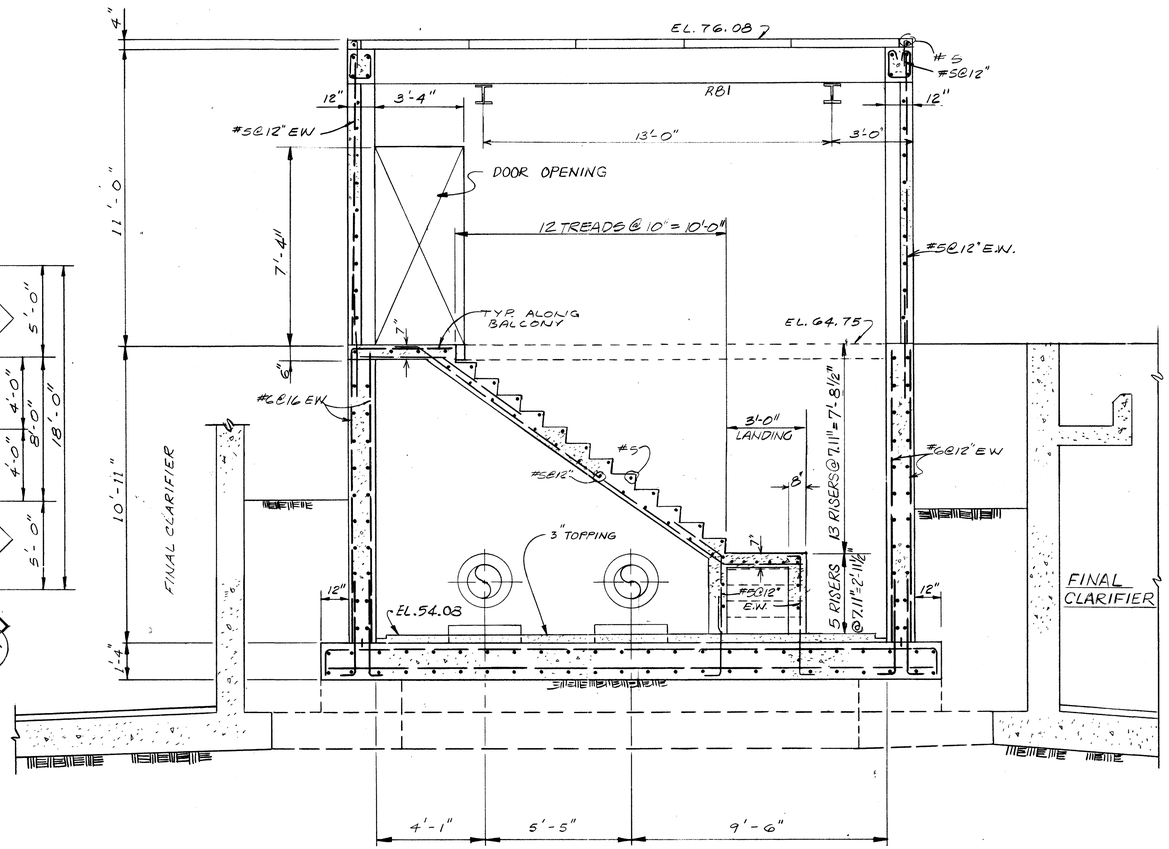
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FINAL CLARIFIERS-STRUCTURAL SECTIONS AND DETAILS (PUMP HOUSE)**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | PROJ. NO. 87054-2
SCALE: AS SHOWN | FILE NO. 13033
SHEET NO. 60 OF 166

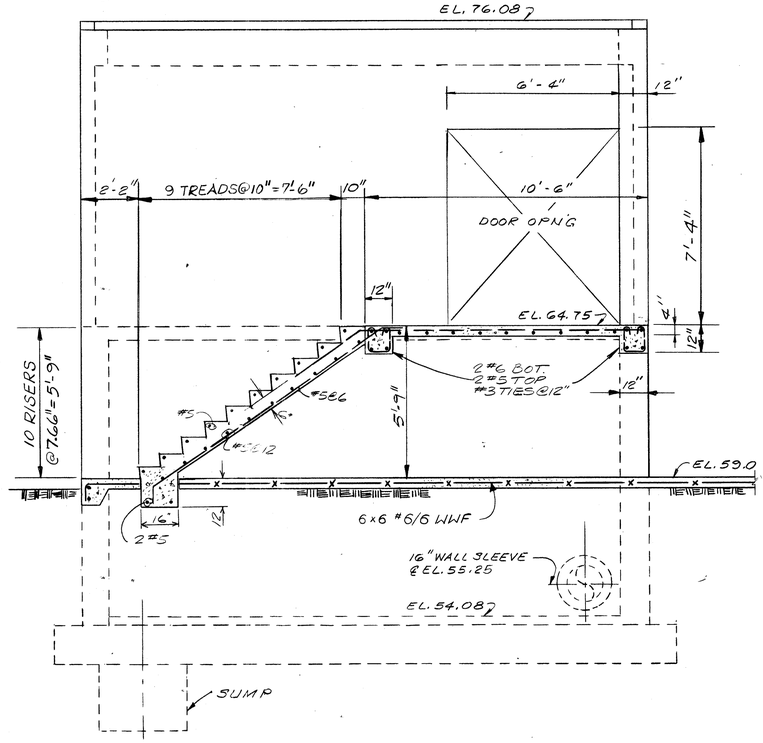
92016



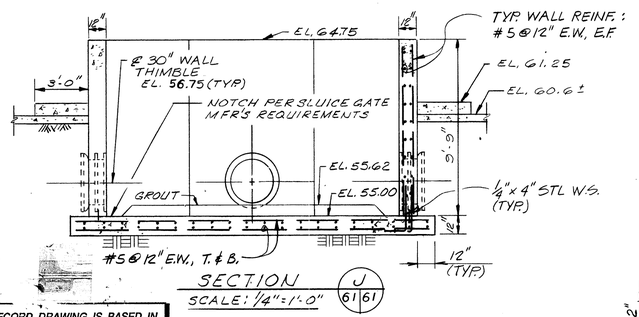

PLAN
DISTRIBUTION STRUCTURE
SCALE: 1/4"=1'-0"



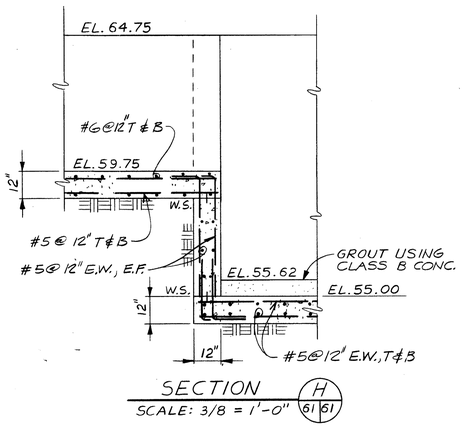

SECTION
SCALE: 3/8" = 1'-0"
F 58 59 60 61



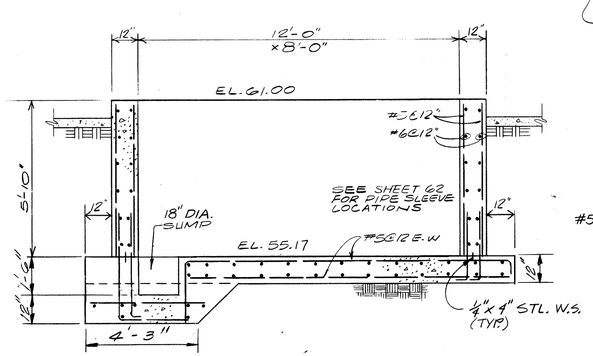

SECTION
SCALE: 3/8" = 1'-0"
G 58 59



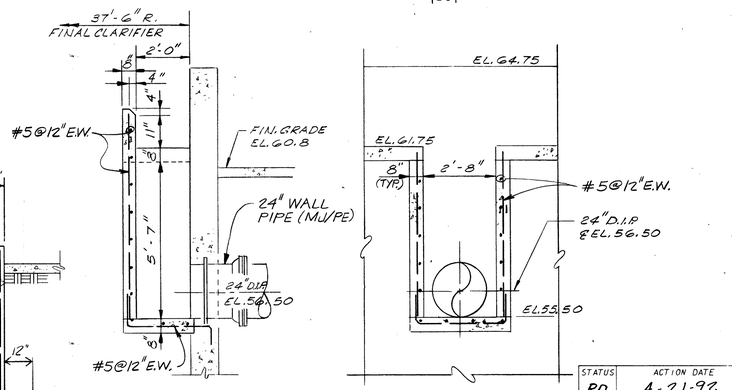

SECTION
SCALE: 1/4" = 1'-0"
J 61 61




SECTION
SCALE: 3/8 = 1'-0"
H 61 61




SECTION
3/8" = 1'-0"
C 56 61




SECTION

ELEVATION

EFFLUENT DROP BOX
SCALE: 3/8" = 1'-0"

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**RECORD DRAWING**

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DRAWN RAP RMO
CHECKED JTS
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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
FINAL CLARIFIERS-
STRUCTURAL SECTIONS (PUMP HOUSE)
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 61 OF 166
PROJ. NO. 87054-2
FILE NO. 13034

92016

FINAL CLARIFIER 5

(15)

FINAL CLARIFIER 6

(15)

N

2ND ANOXIC/REAERATION TANKS EFFLUENT CHANNEL

4" S.S. AIR

FOR DIMENSIONS IN THIS AREA SEE SHEET 50

4"

FLOW

℄ 59.75 INFLUENT CHANNEL

4" S.S. AIR - RUN ALONG TOP OF CHANNEL WALL

2" S.S. AIR HEADER & DIFFUSER RELOCATED FROM EXIST. AERATION TANK & AEROBIC DIGESTER INFLUENT CHANNEL

10" P.V.

10" D.W. ℄ EL. 47.88

℄ EL. 48.05

ROTATION

20" DIP RAS ℄ EL. 47.47 (TYP. 4 PL)

2" CAS

10" DW

C.O. 3" EFW ℄ EL. 57.00

6" SCUM ℄ EL. 58.00

SCUM EJECTOR PIT SEE DETAILS SHT. 63 (TYP.)

4" SCUM

30" DIP CLARIFIER INFLUENT EL. 44.47 (TYP. 4 PLCS)

(16) (19)

6" SCUM

1½" EFW

2" PVC SUMP DISCH.

1½" EFW

6" SCUM

3" E.F.W.

SPLITTER BOX

℄ 55.62

1½" EFW

PUMP HOUSE

SEE SHT. 64

24" DIP CLARIFIER EFFLUENT ℄ EL. 56.50 (TYP. 4 PL)

30" ϕ SLUICE GATE (TYP. 4 PL.)

3" EFW

2" PVC SUMP DISCH.

1½" EFW

4" SCUM

1½" EFW

WALKWAY BY CLARIFIER MECHANISM SUPPLIER (TYP.)

45° (TYP)

26° (TYP 6 PL)

ROTATION

ROTATION

EXIST. 10" DW ℄ EL. 47.17

EXIST. 24" AIR ℄ EL. 49.34

1-10" WYE 1-10" ⅛ BEND CONNECT TO EXIST. 10" DW.

10" P.V.

REMOVE AIR MAIN AS REQUIRED

10" DW SLOPE TO CONNECTION WITH EXIST. 10 DW

6" SCUM ℄ EL. 58.50 (TYP.)

33¾° (TYP. 5 PL)

24" DIP

℄ 55.50

COLLECTION BOX

OPEN CHANNEL DIFFUSER SEE DETAIL SHT. 127

SCUM TROUGH SEE DETAIL SHT. 63 (TYP.)

℄ WALKWAY & 30" INFLUENT PIPE

24" DIP

10" DIP

10" PLUG VALVE & VALVE BOX (TYP.)

10" DW

CLARIFIER MECHANISM (TYP. 4 PLACES)

HOSE BIBB (TYP)

EFFLUENT WEIR & SCUM BAFFLE SEE DETAILS SHT. 63

3" S.C. ℄ EL. 57.75

6" S.C. ℄ EL. 58.00

2" CAS ℄ EL. 57.75

57.50

64.50

FLOW

36" DIP TO EFFLUENT FILTERS

℄ EL. 53.17

LAUNDER BOTTOM EL. 61.75 (TYP.)

TOP OF TANK WALL EL. 64.75 (TYP.)

FINAL CLARIFIER 7

(15)

FINAL CLARIFIER 8

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⚠ **NOTE**

ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061 - STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

NOTE:

CONCRETE SLAB BETWEEN TANKS & CONCRETE PEDESTALS AROUND TANKS HAVE BEEN OMITTED FOR CLARITY.

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| ⚠2 | 7-17-91 | RECORD DRAWING | WLS |
| ⚠1 | 5-31-89 | REVISED AS PER ADDENDUM NO. 1 | BVB |

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DRAWN SGO RSG
CHECKED SRS

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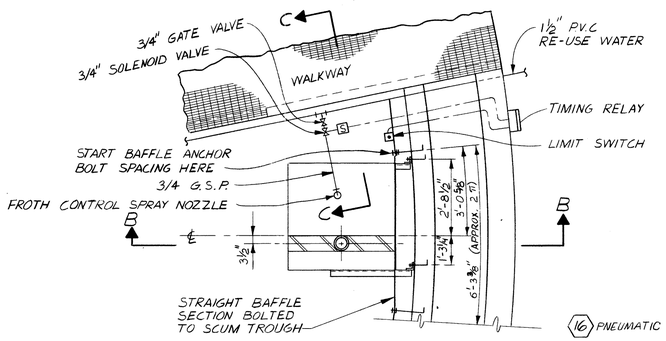
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FINAL CLARIFIERS-**
**MECHANICAL PLAN**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1/8"=1'-0"
SHEET NO. 62 OF 166

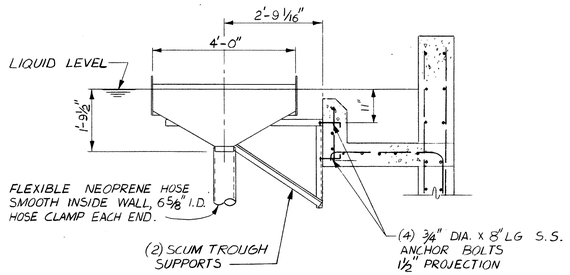
PROJ. NO. 87054-2
FILE NO. 13035

92016

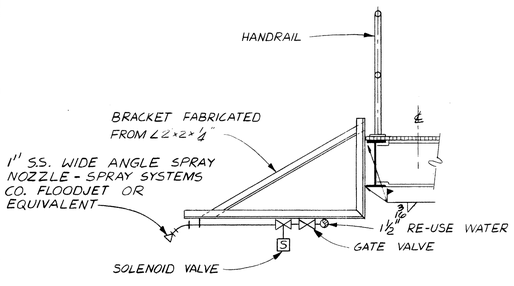
NOTE:
SPRAY NOZZLE SHALL BE MOUNTED HIGH ENOUGH SO AS NOT TO INTERFERE WITH SKIMMING ARM.




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

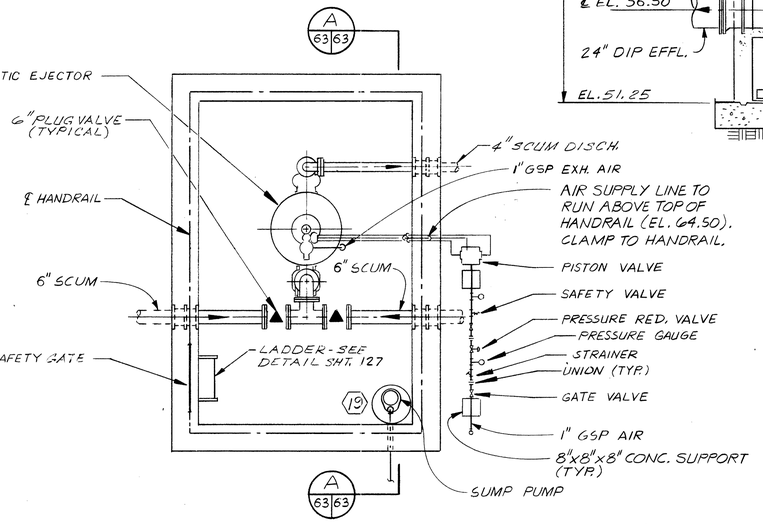



SECTION B-B
SCALE: 1/2" = 1'-0"

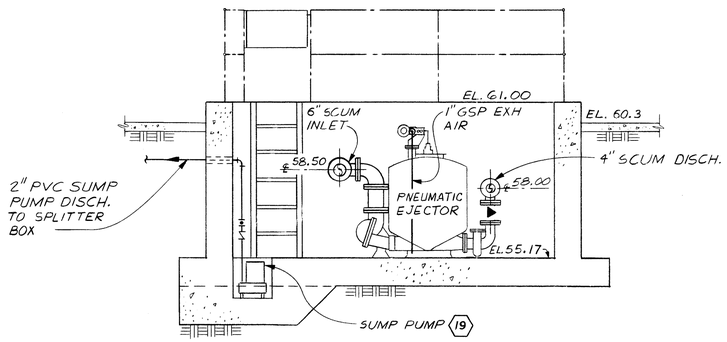



SECTION C-C
SCALE: NONE

SCUM TROUGH DETAIL
SCALE: NONE

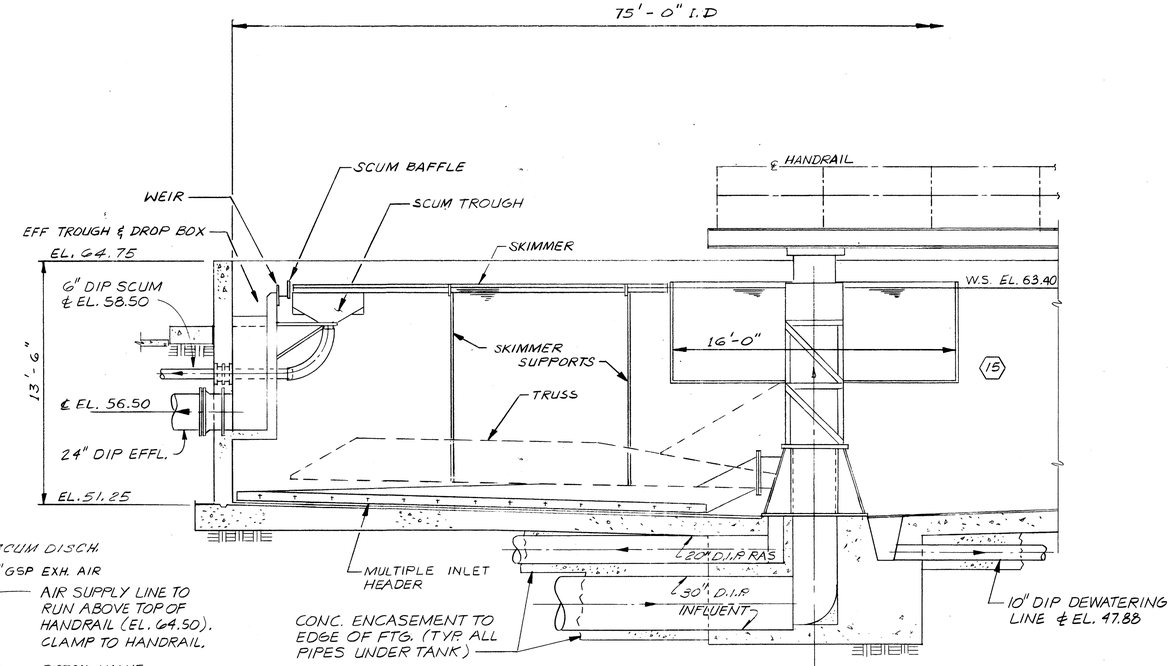



PLAN



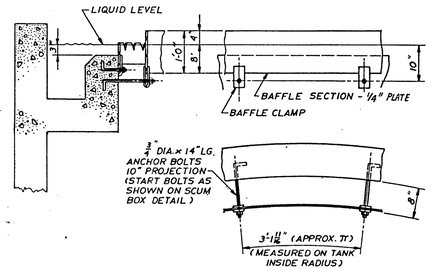

SECTION A 63|63

SCUM EJECTOR PIT
SCALE: 3/8" = 1'-0"



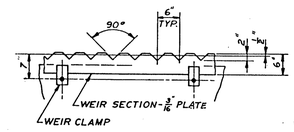

NOTE: PIPING SHOWN OUT OF POSITION; FOR ORIENTATION, SEE PLAN.

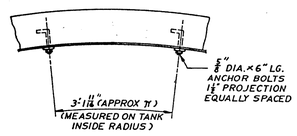
TYPICAL TANK SECTION
SCALE: 1/4" = 1'-0"




BAFFLE DETAIL

NOTES: ALL ANCHOR BOLTS & NUTS SHALL BE 316 S.S.
BAFFLE & WEIR PLATES SHALL BE ALUMINUM.




WEIR DETAIL

WEIR & BAFFLE DETAILS
SCALE: NONE

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RECORD DRAWING

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ENGINEER OF RECORD:

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CLEARWATER, FLORIDA

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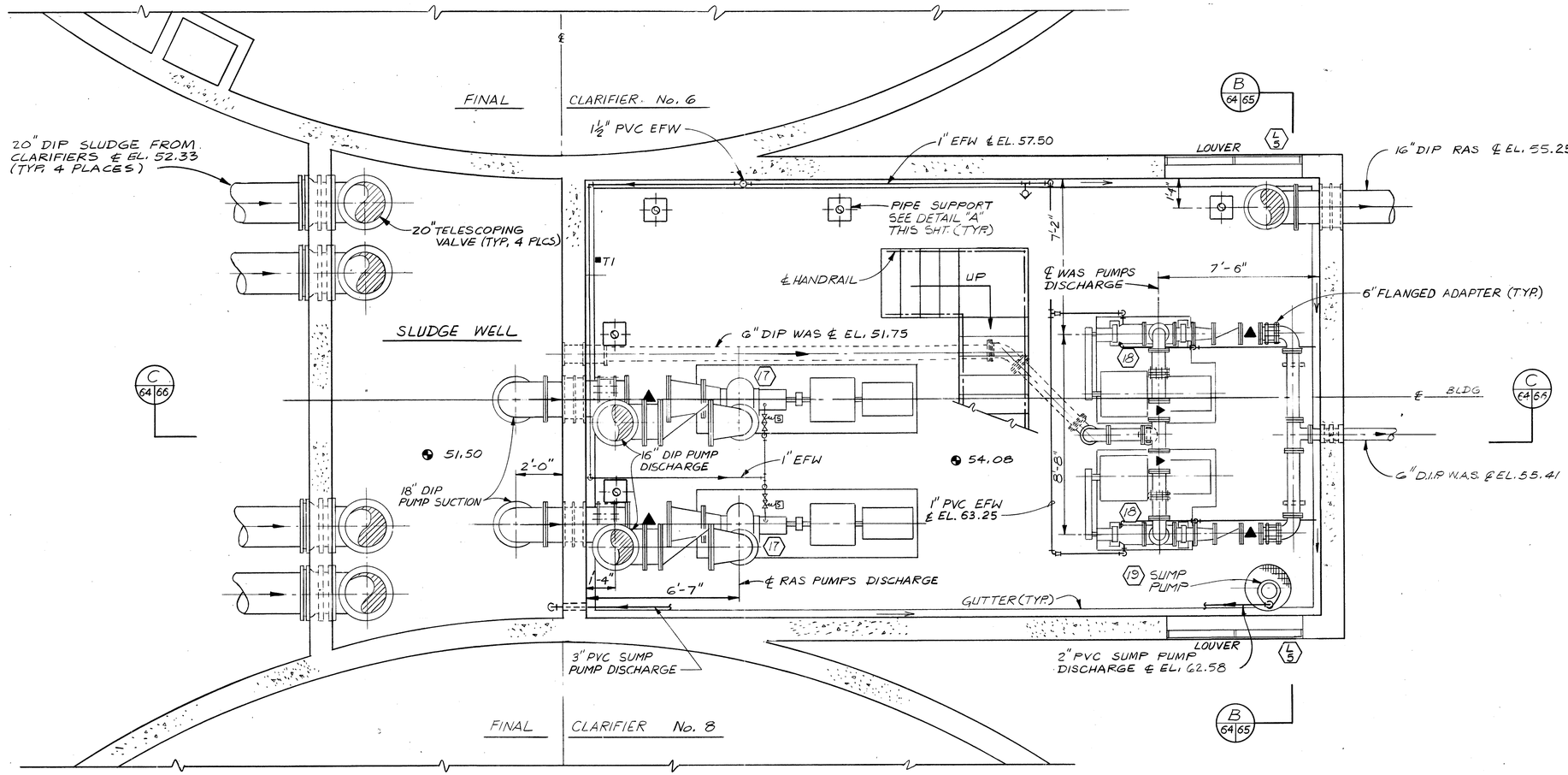
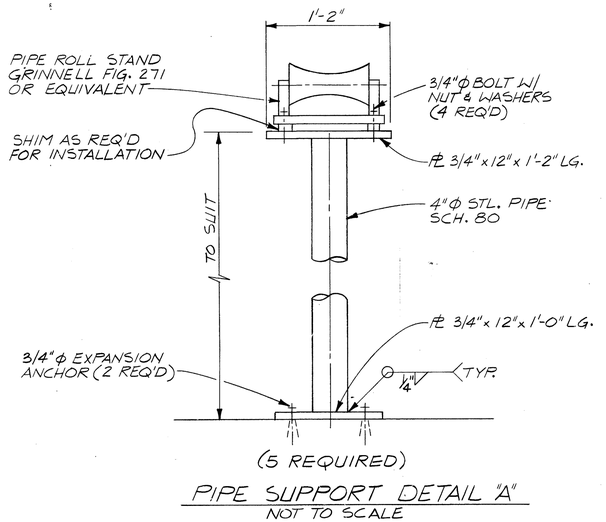



PLAN - PUMP HOUSE LOWER LEVEL
SCALE: 3/8" = 1'-0"




(5 REQUIRED)

PIPE SUPPORT DETAIL "A"
NOT TO SCALE

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**MECHANICAL PLAN (PUMP HOUSE)**
CLEARWATER, FLORIDA

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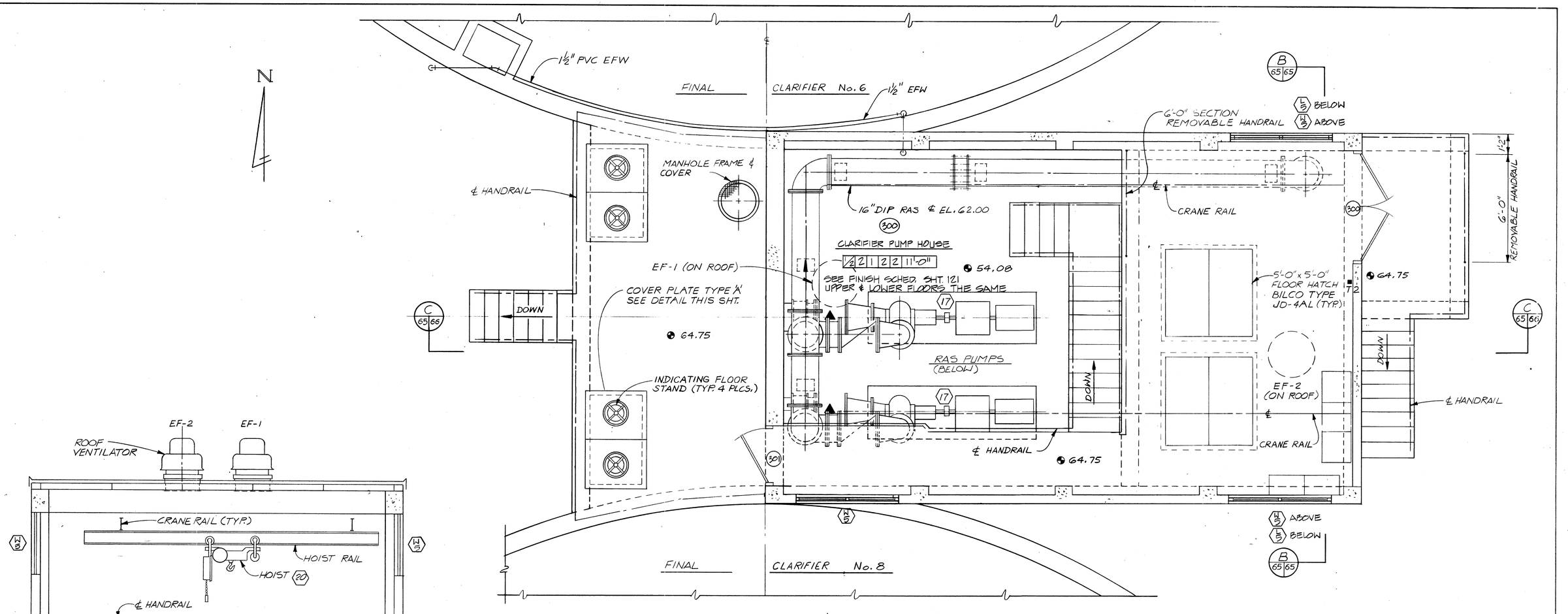
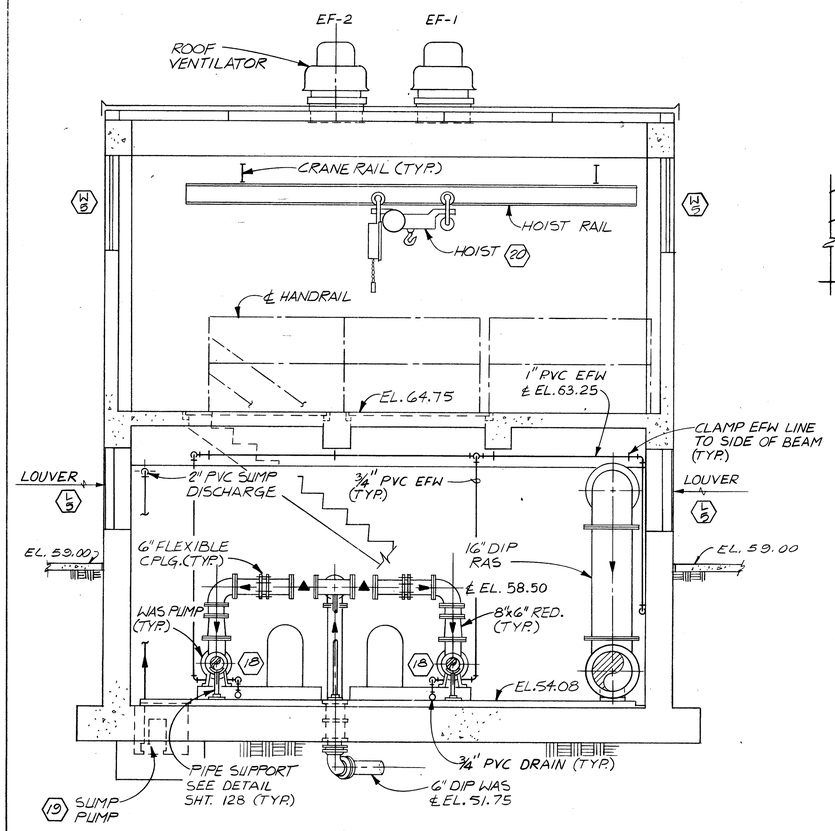


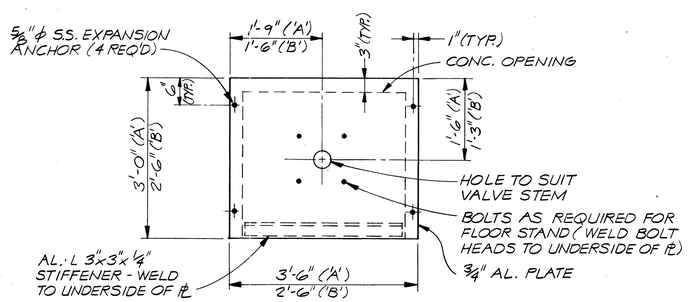

PLAN - PUMP HOUSE UPPER LEVEL
SCALE: 3/8" = 1'-0"




SECTION B
SCALE: 3/8" = 1'-0" 64|65

| FAN SCHEDULE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | LOCATION | DUTY | CFM | RPM | S.P." | H.P. | DRIVE | VOLT | MFG. MODEL NO. | SONES | CONTROL | ACCESSORIES |
| EF-1,2 | PUMP HOUSE FINAL CLARIFIERS | EXHAUST | 3666 | 716 | 3/8 | 1/2 | BD | 115/1 | SWARTWOUT 24FA4B | - | WALL THERMOSTAT | METAL PARTS ENCAPSULATED W/PVC, FA SERIES E 10" CURB |

NOTE: 1. EF-1,2 SHALL BE FURNISHED WITH PREWIRED DISC. SWITCH; 24" x 24" 18 GA. ALUMINUM DUCT; 24" x 24" 3/4 #16 S.S. TYPE 304 STANDARD EXP. METAL GRILLE; BIRD SCREEN.
2. THERMOSTAT(S) SHALL BE HONEYWELL MODEL T631C1053 COOLING THERMOSTAT.
3. FAN MOTORS SHALL BE TOTALLY ENCLOSED FAN COOLED.




(4 REQ'D TYPE 'A' & TYPE 'B')
COVER PLATE DETAIL
SCALE: 3/4" = 1'-0"

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|---|---|
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| B | FOR BIDDING OR NEGOTIATION |
| O | RELEASED FOR CONSTRUCTION |
| R | DESTROY THIS PRINT |
| H | PORTIONS AS NOTED |
| A | APPROVED |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|

DESIGNED YCL | DRAWN RAP RTB | CHECKED YCL

ENGINEER OF RECORD

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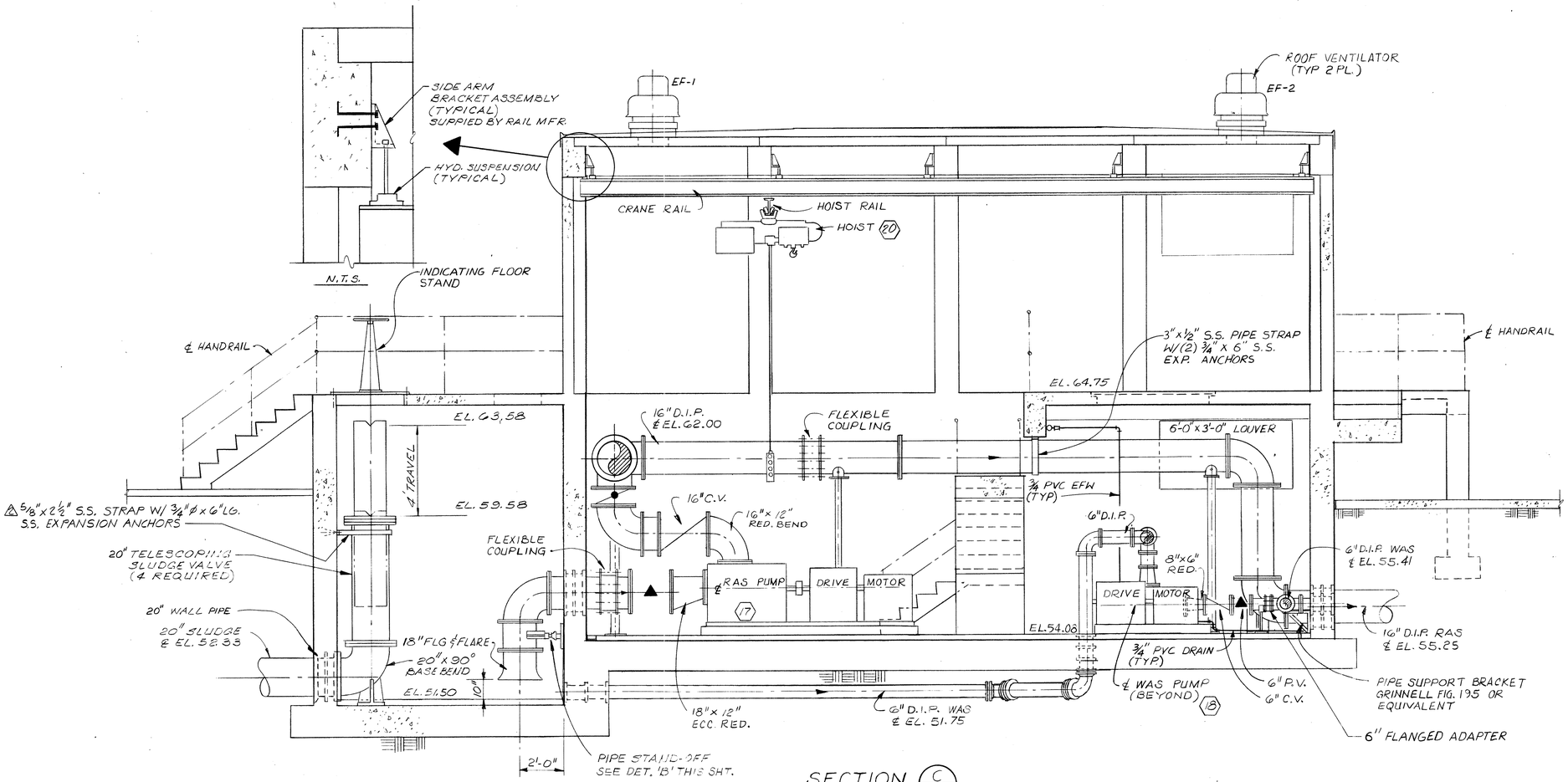
CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

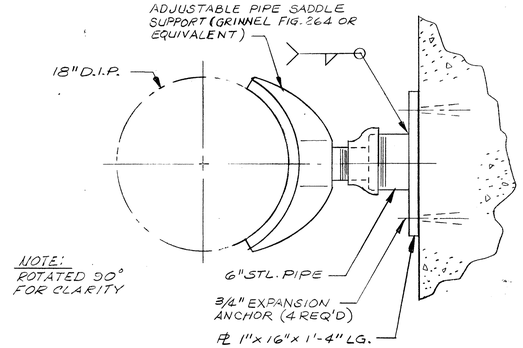
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FINAL CLARIFIERS-**
**MECHANICAL PLAN & SECTION (PUMP HOUSE)**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 65 OF 166
JOB NO. 87054-2
FILE NO. 13038

92016




SECTION (C 64 66 65)
SCALE: 3/8"=1'-0"




PIPE STAND-OFF DETAIL 'B'
NOT TO SCALE

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| RD | 4-21-92 |

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|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| ⚠ 5 | 3-31-89 | REVISED PER ADDENDUM #2 | SGO |

DESIGNED YCL | DRAWN KRM RJC | CHECKED SRS

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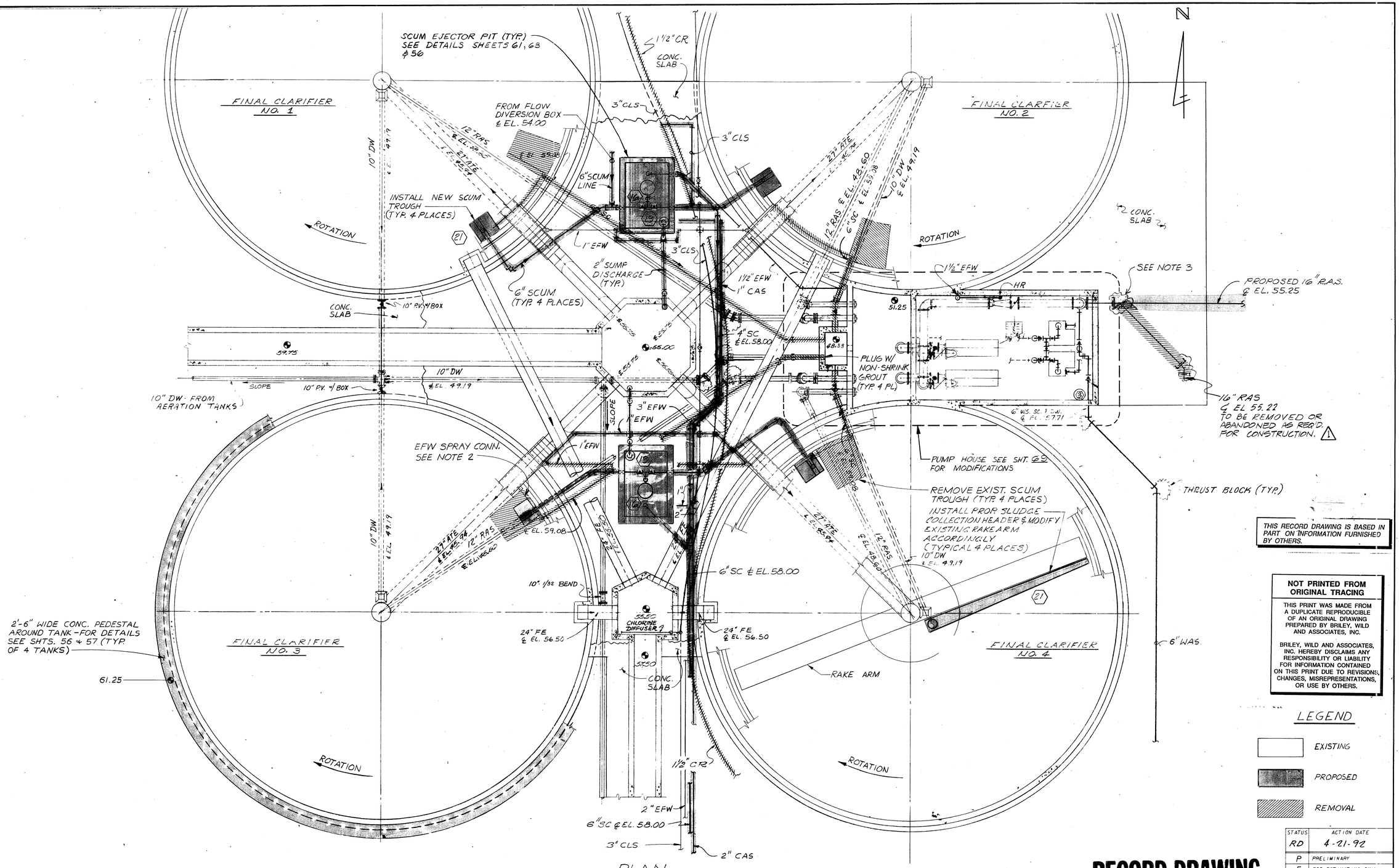
**NORTHEAST ADVANCED POLLUTION CONTROL FACILITY**
**FINAL CLARIFIERS-**
**MECHANICAL SECTIONS (PUMP HOUSE)**
**CLEARWATER, FLORIDA**

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 66 OF 166
PROJ. NO. 87054-2
FILE NO. 13039

92016




PLAN

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LEGEND

- EXISTING
- PROPOSED
- REMOVAL

NOTES:

1. AREA BETWEEN EXIST. CLARIFIER HAS A REINF. CONC. SLAB ON GRADE. REMOVE & REINSTALL SLAB AS REQUIRED TO INSTALL NEW PIPING.
2. CONNECT EXIST. EFW RUNS TO NEW SCUM TROUGH SPRAY SYSTEMS. SEE DETAIL SHT. 63.
3. INSTALLATION OF WELL POINT SYSTEM FOR REDUCING THE HYDROSTATIC UPLIFT MAY BE REQUIRED BEFORE DEWATERING THE TANKS FOR MODIFICATIONS.
4. RETURN ACTIVATED SLUDGE PUMPING SHALL BE MAINTAINED IN OPERATION DURING CONSTRUCTION OF THE PROP. 16" RAS PIPE CONNECTION. CONTRACTOR SHALL PROVIDE A TEMPORARY FACILITY TO PUMP FROM THE SLUDGE WELL TO THE EXIST. AERATION TANKS. THIS TEMPORARY PUMPING FACILITY MAY BE A SUBMERSIBLE PUMP HAVING A RATED CAPACITY OF 2,500 GPM @ 25 FEET HEAD. THE CONNECTION OF THE PROP. 16" RAS PIPE MAY BE DONE WHEN THE PHASE ① CONSTRUCTION ITEMS ARE READY FOR OPERATION TO MINIMIZE THE LENGTH OF TIME REQUIRED FOR TEMPORARY RAS PUMPING.

**RECORD DRAWING**

| STATUS | ACTION DATE |
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| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED - DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 1 | 5-31-89 | REVISED AS PER ADDENDUM NO. 1 | BVB |

DESIGNED SGO | DRAWN RAP | CHECKED YCL | ENGINEER OF RECORD:

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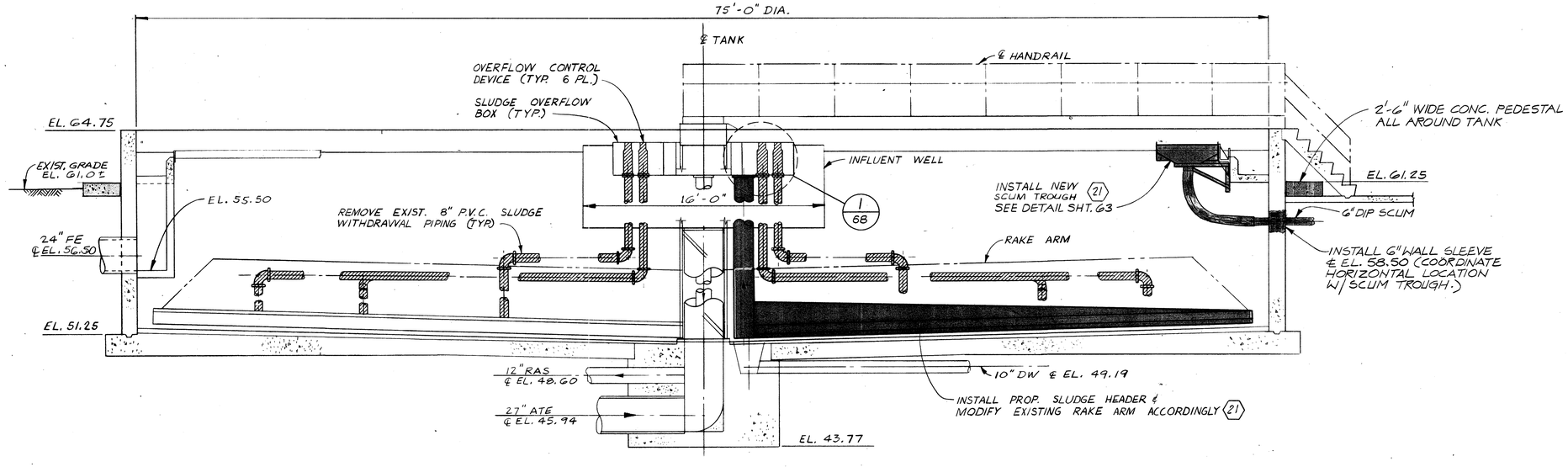
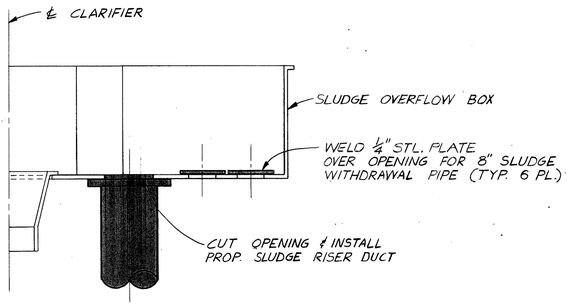
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING FINAL CLARIFIERS - MODIFICATIONS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1/8" = 1'-0"
SHEET NO. 67 OF 166
PROJ. NO. 87054-2
FILE NO. 13040

92016




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




DETAIL 1/68
NOT TO SCALE

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EXISTING
PROPOSED
REMOVAL

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
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| A | APPROVAL |
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| RD | RECORD DRAWING |

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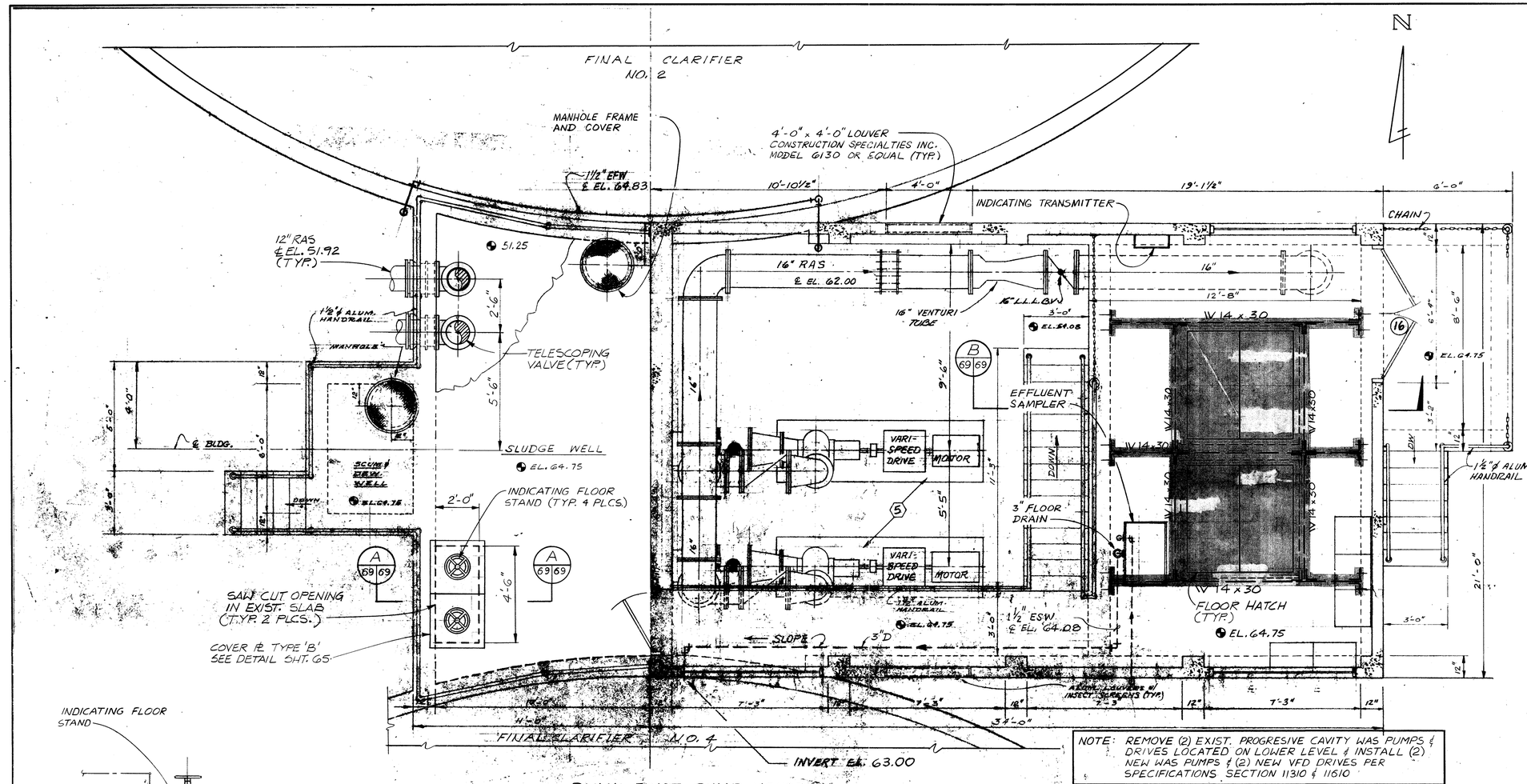
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING FINAL CLARIFIERS - MODIFICATIONS**
CLEARWATER, FLORIDA

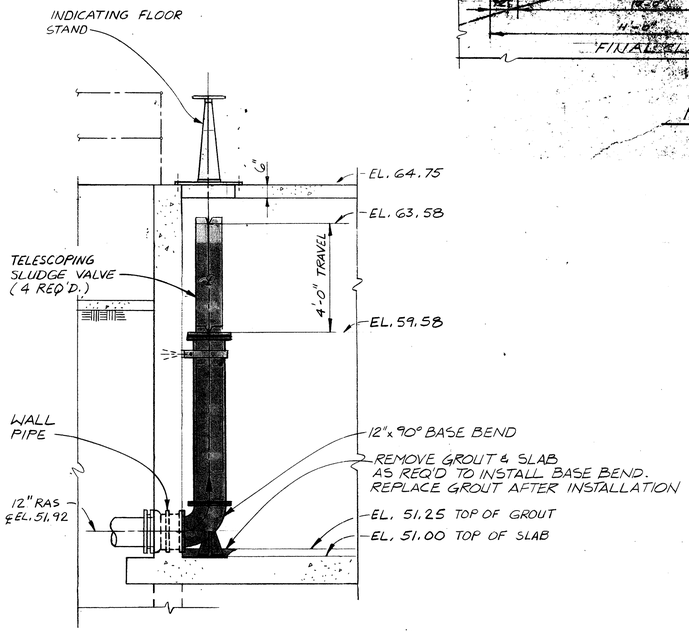
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 68 OF 166
PROJ. NO. 87054-2
FILE NO. 13041

92016

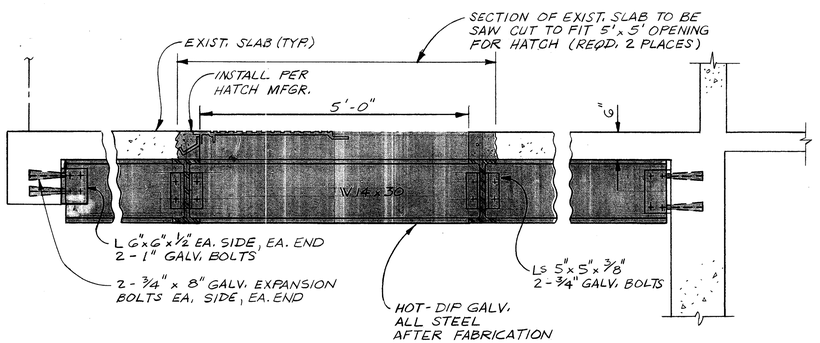



PLAN - EXIST. PUMP HOUSE
SCALE: 3/8" = 1'-0"

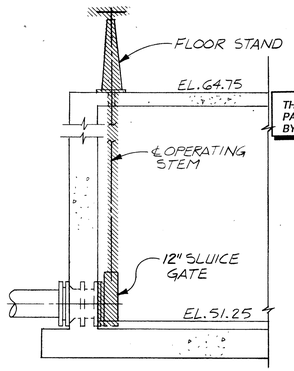
REMOVAL PLAN
SCALE: 3/8" = 1'-0"




SECTION A 69/69
SCALE: 3/8" = 1'-0"




SECTION B 69/69
SCALE: 3/4" = 1'-0"




SECTION C 69/69
SCALE: 3/8" = 1'-0"

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NOTES:

1. REPLACEMENT OF EXISTING SPOOL PIECES ON SUCTION AND DISCHARGE FOR THE INSTALLATION OF THE TWO NEW WAS PUMPS MAY BE REQUIRED.

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
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| A | APPROVAL |
| C | CHECK PRINT |
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DESIGNED YCL JTS
DRAWN RSG RAP
CHECKED SRS

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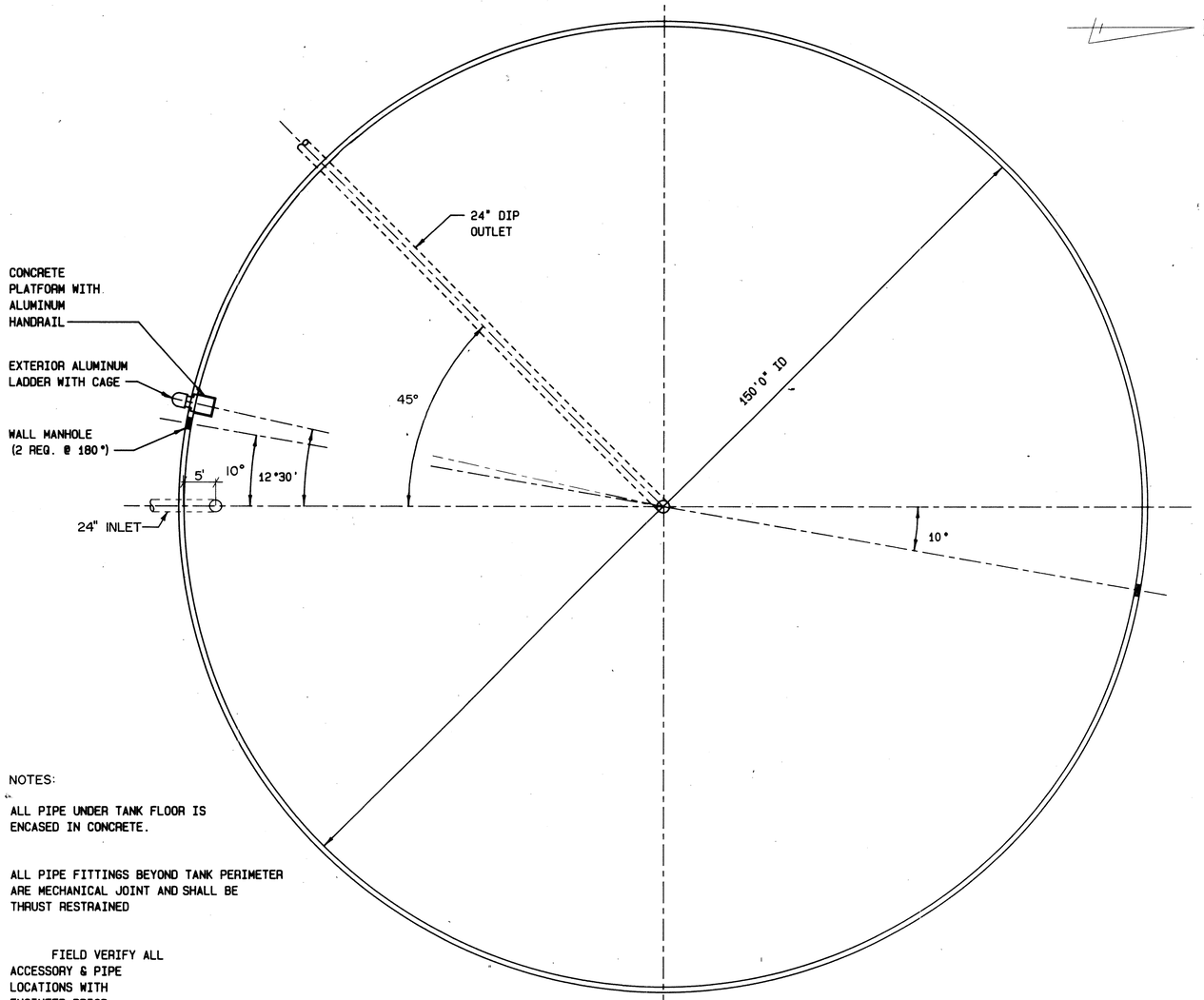
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING FINAL CLARIFIERS - MODIFICATIONS (PUMP HOUSE)**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 69 OF 166
PROJ. NO. 87054-2
FILE NO. 13042

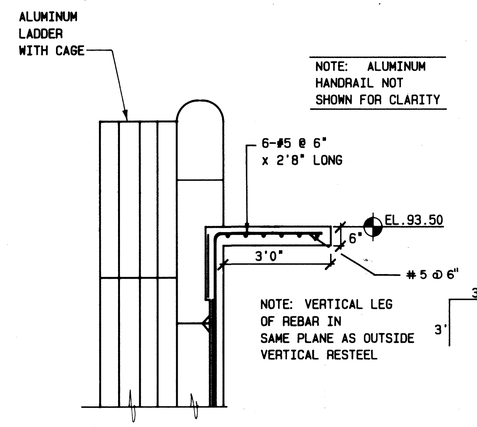
92016



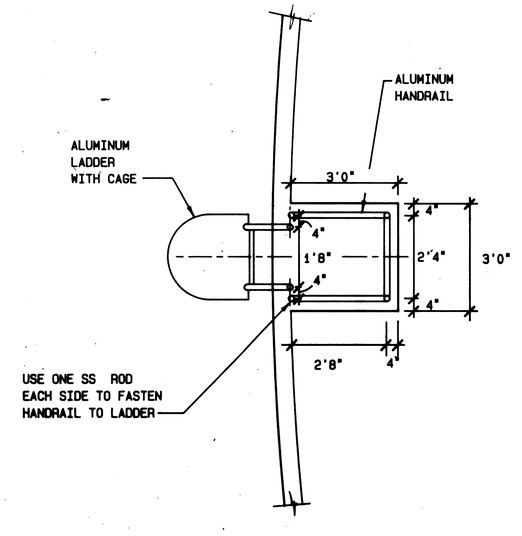

NOTES:

1. ALL PIPE UNDER TANK FLOOR IS ENCASED IN CONCRETE.
2. ALL PIPE FITTINGS BEYOND TANK PERIMETER ARE MECHANICAL JOINT AND SHALL BE THRUST RESTRAINED
3. FIELD VERIFY ALL ACCESSORY & PIPE LOCATIONS WITH ENGINEER PRIOR TO PLACEMENT.

PLAN
SCALE: 3/32"=1'-0"




SECTION




PLAN

## LADDER PLATFORM DETAIL

SCALE: 1/2" = 1'0"

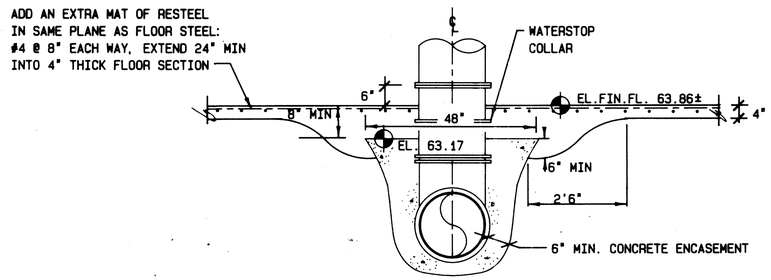



NOTE: 24" DIP INLET SHOWN ROTATED FOR CLARITY

SECTION
SCALE: 3/32"=1'-0"

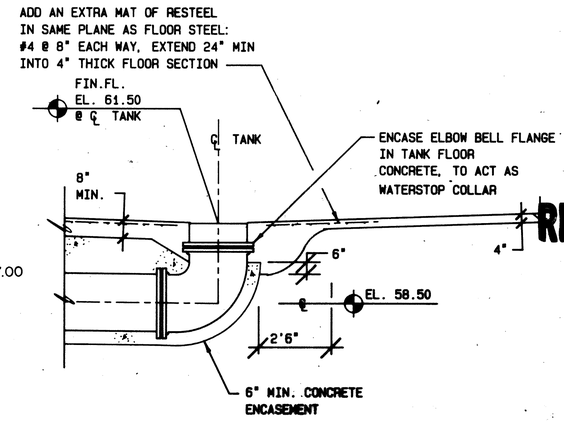
NOTE:

⚠ THE DRAWING SHOWS DIMENSIONS AND CONFIGURATIONS AS REQUIRED BY THE TREATMENT PROCESS. THE CONSTRUCTION MATERIALS INDICATED ARE FOR BID PURPOSES. THE TANK BUILDER IS TO PROVIDE THE FINAL DESIGN AND CONSTRUCTION PLANS AS REQUIRED BY THE PROJECT SPECIFICATIONS AND IN CONFORMANCE WITH AMERICAN CONCRETE INSITUTE (ACI) CODE REQUIREMENTS.




## TYPICAL 24" FLOOR PIPE NEAR TANK WALL

NTS




## 24" FLOOR PIPE @ CENTER OF TANK

SCALE: 3/8" = 1'0"

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| RD | RECORD DRAWING |

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DESIGNED CROM
DRAWN SGO RAP
CHECKED CROM

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APPROVED:
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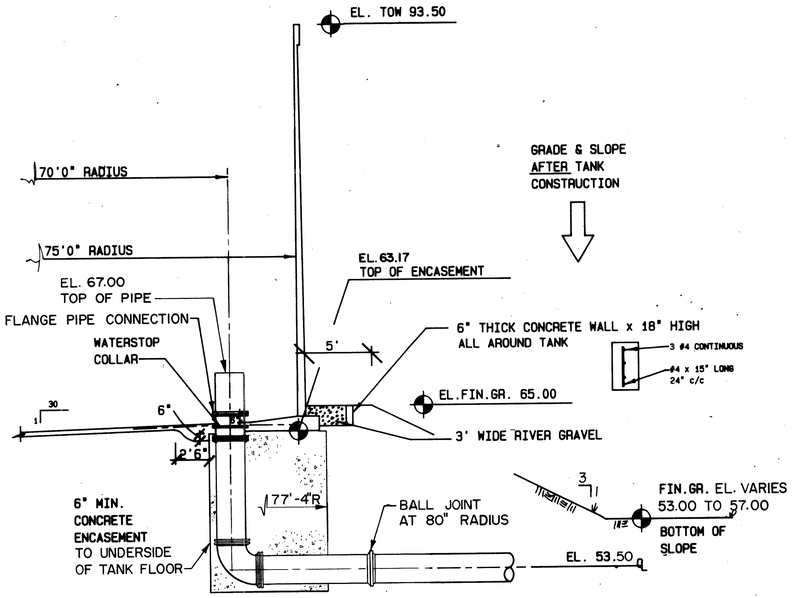
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
FLOW EQUALIZATION TANK-
STRUCTURAL PLAN & SECTION
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 70 OF 166

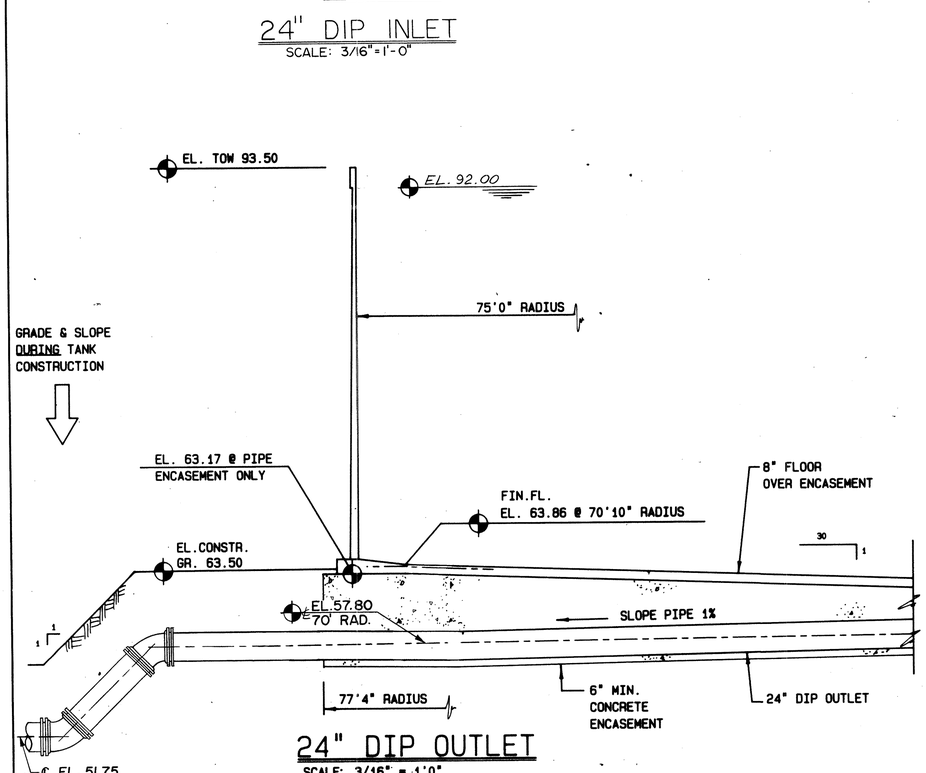
PROJ. NO. 87054-2
FILE NO. 13043

92016



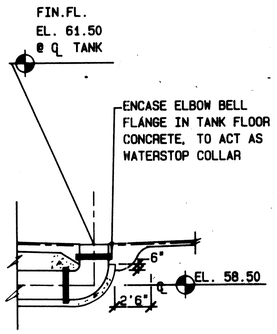

## 24" DIP INLET

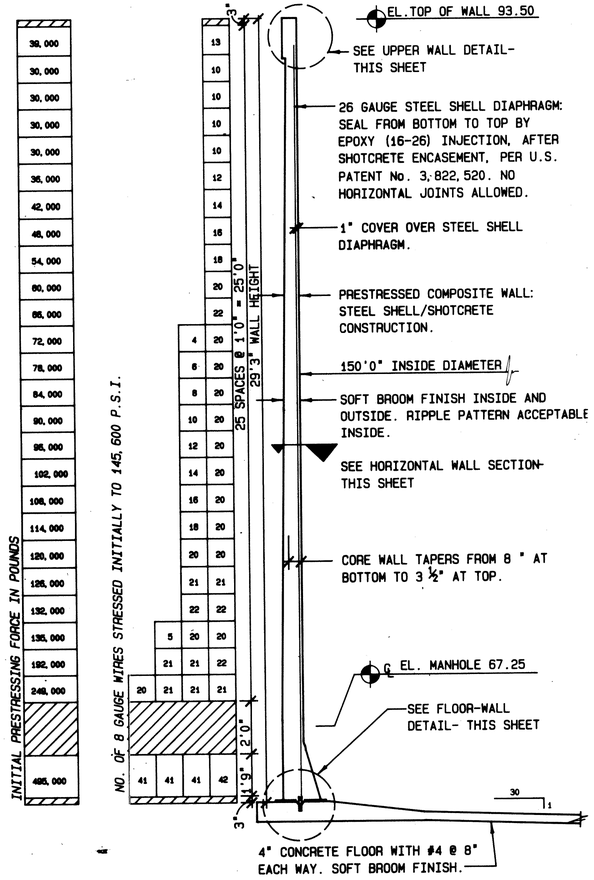
SCALE: 3/16"=1'-0"




## 24" DIP OUTLET

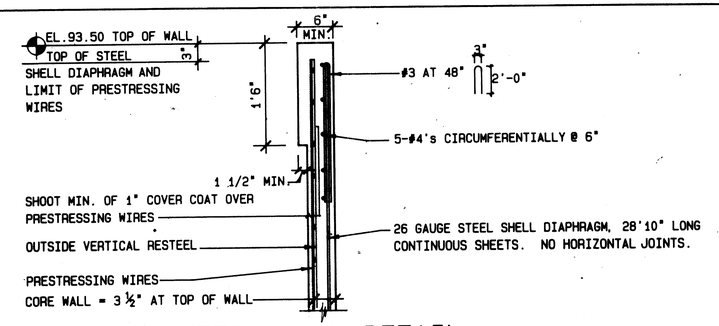
SCALE: 3/16" = 1'0"



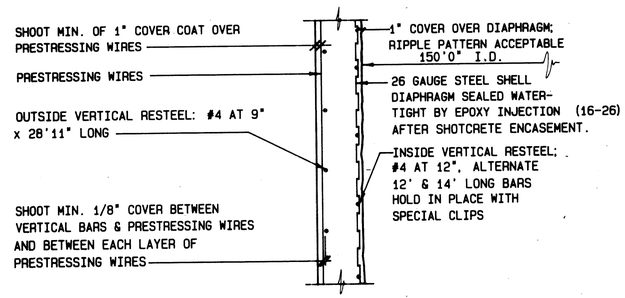




## PRESTRESSING SCHEDULE

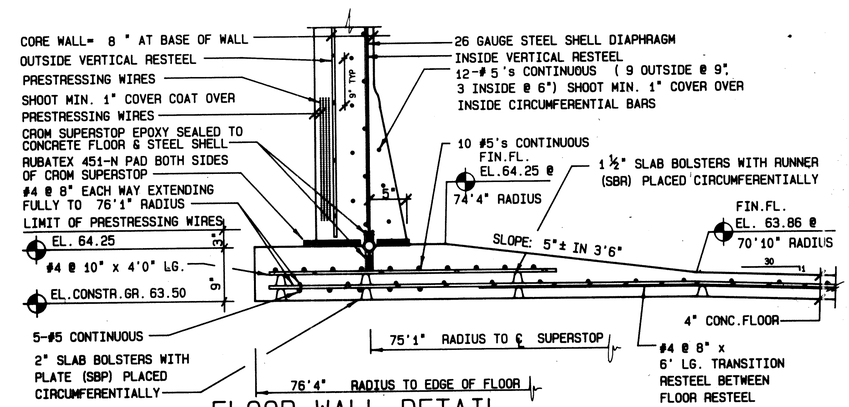
SCALE: 3/8" = 1'0"




## UPPER WALL DETAIL




## HORIZONTAL WALL SECTION




## FLOOR-WALL DETAIL

## TYPICAL WALL DETAILS

SCALE: 1"=1'-0"

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**RECORD DRAWING**

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| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY | CHECKED |
|---|---|---|---|---|
| ⚠ 1 | 5-31-89 | REVISED PER ADDENDUM #1 | SGO | CROM |

DESIGNED CROM
DRAWN SGO
CHECKED CROM
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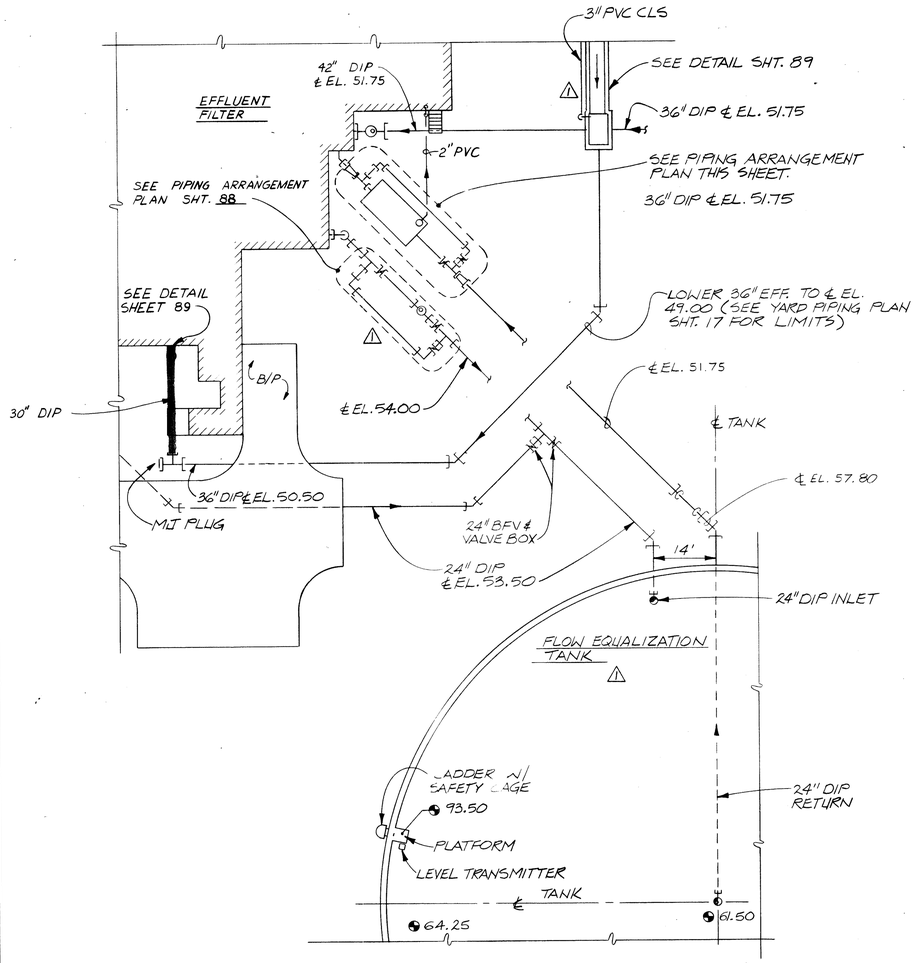
CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
FLOW EQUALIZATION TANK-
STRUCTURAL SECTIONS & DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 71 OF 166
PROJ. NO. 87054-2
FILE NO. 13044

92016

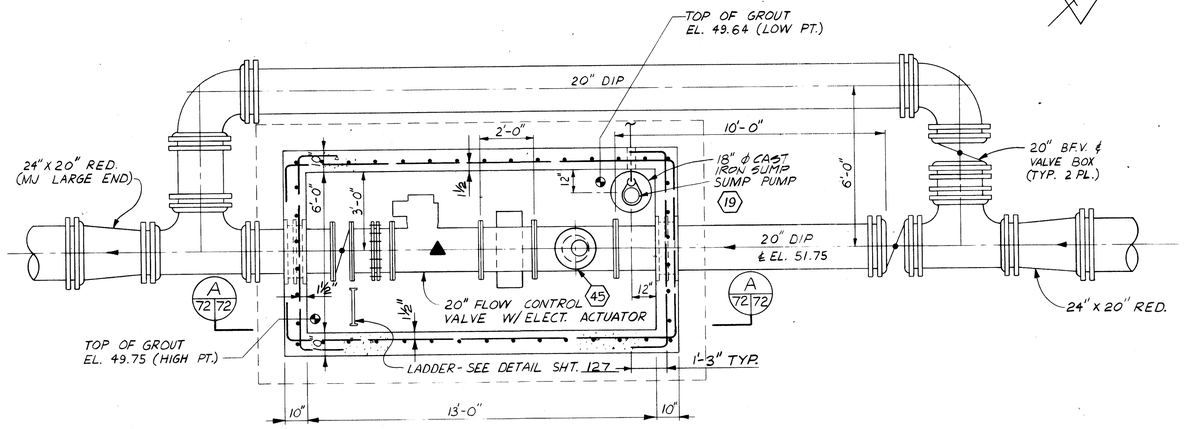



LEGEND

INDICATES TEMPORARY INFLUENT PIPING TO BE USED DURING CONSTRUCTION OF NEW EFFL. FILTERS & REMOVED AFTER NEW FILTER CONSTRUCTION IS COMPLETED.

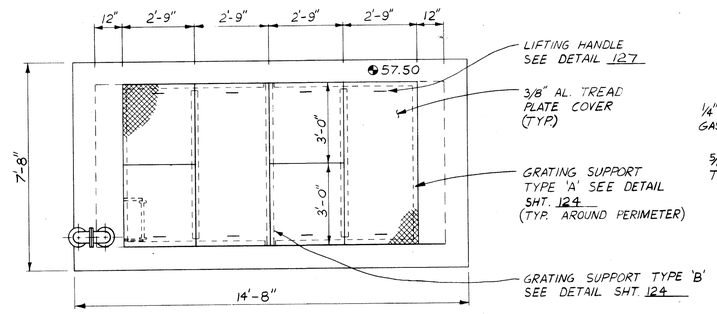
## PARTIAL PLAN AT FLOW EQUALIZATION TANK & EFFL. FILTERS YARD PIPING

SCALE: 1/16" = 1'-0"



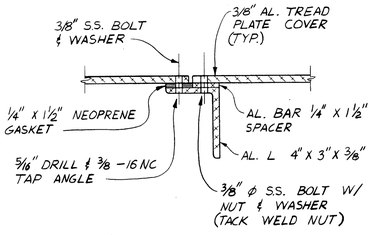

## PLAN - EQUALIZATION TANK RETURN PIPING ARRANGEMENT

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




## VALVE BOX TOP PLAN

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

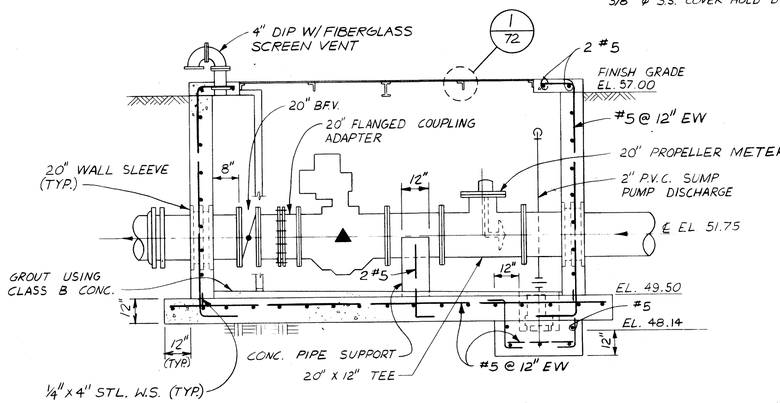



## DETAIL 1/72

SCALE: 3" = 1'-0"

NOTES:

1. PROVIDE 1/4" X 1 1/2" NEOPRENE GASKETS ON ALL COVER SUPPORTS.
2. DRILL & TAP SUPPORTS FOR 3/8" ϕ S.S. COVER HOLD DOWN BOLTS.




## SECTION A 72/72

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

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| RD | 4-21-92 |
| P | PRELIMINARY |
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| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY | CHECKED |
|---|---|---|---|---|
| 2 | 7-24-91 | RECORD DRAWING | GLB | YCL |
| 1 | 8-1-89 | REVISED AS PER E.O. #3 | KTB | RAP |

DESIGNED: YCL JTS
DRAWN: GLB KTB
CHECKED: YCL RAP
SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:
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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
FLOW EQUALIZATION TANK-
MECHANICAL PLAN, SECTIONS & DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 72 OF 166
PROJ. NO. 87054-2
FILE NO. 13045

92016

6" EFW (3)
℄ EL. 54.58

3" CLS

6" PROCESS AIR - ℄ EL. 54.58 (3)

8" X 4" REDUCER

3" CHLORINE SOLUTION - ℄ EL. 54.58 (3)

PROVIDE TEMORARY BLOCK WALL AT THIS LOCATION TO MAINTAIN EXIST. FILTERS IN OPERATION. (3)

12" EFFLUENT TRANSFER
℄ EL. 54.50
TOP OF PIPE AT DITCH
EL. 52.0 ±

36" INFLUENT
℄ EL. 51.00

18" BACKWASH
℄ EL. 52.00

6" PROCESS AIR
℄ EL. 56.54

PUMP ROOM — CLEAR WELL

BLIND FLANGE — LINK SEAL (TYP)

FLANGE — EXIST. WALL SLEEVE

DETAIL 1 / 73 NTS

N

49.58

EFW PUMPS TO BE RELOCATED

4' - 4" 3' - 4" 4' - 4"

A 73/75

8"

8"

19'-0"

8' - 3"

PLUG

13' -0" (TYP)

BLIND FLANGE

6" X 3" REDUCER

6" B.F.V.

6" S.S. PROCESS AIR ℄ EL. 54.58

12" PLUG VALVE

3' - 0"

6' - 4"

8' - 0"

3' - 3 3/8"

1' - 5"

6' -0"

7' - 11"

PUMP #1

MOTORIZED B.F.V.

18"

BUBBLER PIPE (TYP)

B 73/75

16" DIP TO EFFLUENT IRRIGATION STORAGE TANK

PUMP #2

BACKWASH PUMPS TO BE RELOCATED

12" ELL

C 73/75

AIR SUPPLY TO FILTER CONSOLE (TYP)

1" SODIUM HYPOCHLORITE (TYP)

3" PROCESS AIR
℄ EL. 56.54
(TYP)

PLUG

48.50

PIPE SUPPORT

PLUG EXIST. WALL SLEEVES WERE. PIPES ARE TO BE REMOVED (TYP. (3) 18" & (2) 8" PIPE) SEE DETAIL '1'

3/4" INSTRUMENT AIR
℄ EL. 56.54

CLEARWELL

THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

HOSE REEL W/ 50' HOSE

24"

48.00

INSTALL 16" PIPE CONNECTING TO NEW 18" BACKWASH PUMP DISCHARGE IMMEDIATELY AFTER REMOVING PUMP #1 18" DISCHARGE PIPE TO MINIMIZE THE DOWN TIME OF IRRIGATION SUPPLY.

SLOPE

2' -0"

HIGH POINT
43.75

43.75

24"

24"

EFFLUENT PUMPS

20" DIA. ALUM. DUCT

PROVIDE TEMPORARY BLIND FLANGE AFTER REMOVING PUMP # 2 AND PUMP DISCHARGE PIPE

PIPE SUPPORT

MUDWELL

SLOPE

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24" PLUG
TYP. 5 PLACES

3' -7" 2' -2"

SAMPLING TAP WITH 1" HOSE BIBB

SAMPLE SYSTEM SEE DETAILS SHT. 75

7' -0"

HI-PRESS AIR SYSTEM

AIR DRYER

1' -10"

SUMP PUMP

MUDWELL PUMPS (4)

1" PVC SAMPLE LINE

INSTALL 12" WALL SLEEVE INV. EL. 43.75 GROUT W/ NON-SHRINK GROUT

3" BALL VALVE & PIPE TAP TYPE CONNECTION. END OF TUBE TO EXTEND 8" INTO THE EFFLUENT MAIN

CONC. PEDESTAL

12" PLUG VALVE

A 73/75

3" POTABLE WATER
℄ EL. 55.33

1-1/2" EFW
℄ EL. 53.00

12" MUDWELL DRAIN @ 0.40%

OUTLINE OF VALVE PIT ABOVE - SEE NOTE 1

NOTES:
1. REMOVE VALVE PIT & SUPPORT EXIST. PIPING WHILE MAKING CONNECTION TO EXISTING MUDWELL.
2. AFTER NEW 12" DRAIN LINE IS INSTALLED AND NEW IN-PLANT P.S. NO. 1 HAS BEEN PLACED IN OPERATION, REMOVE EXISTING MUDWELL PUMPS, FITTINGS, VALVES & PIPING AS SHOWN.
3. BACKWASH PUMP #2 TO BE RELOCATED DURING THE CONSTRUCTION OF NEW FILTERS. (PHASE 3 CONSTUCTION)
4. BACKWASH PUMP #1 TO BE RELOCATED DURING THE MODIFICATION OF THE EXISTING FILTERS. (PHASE 4 CONSTRUCTION)
5. ALL EXISTING 18" PIPING, VALVES & FITTINGS SHALL BE REMOVED & RE-INSTALLED AS SHOWN ON SHT. 85.
6. REINSTALL 18" AIR OPERATED VALVE ACTUATORS DIRECTLY ON THE VALVES AT NEW LOCATIONS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AND COMPARE WITH THESE PLANS TO INSURE ADEQUATE PERFORMANCE AND COST ESTIMATION TO COMPLETE THE JOB AS SPECIFIED.

LEGEND

(1) PHASE 1 CONSTRUCTION ITEM
(2) PHASE 2 CONSTRUCTION ITEM
(3) PHASE 3 CONSTRUCTION ITEM
(4) PHASE 4 CONSTRUCTION ITEM

REMOVAL
EXISTING TO REMAIN
PROPOSED
BOXED CALLOUTS INDICATE MODIFICATION/PROPOSED WORK

**RECORD DRAWING**

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| C | CHECK PRINT |
| RD | RECORD DRAWING |

LOWER LEVEL PLAN
SCALE: 1/4" = 1'-0"

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 5/31/91 | REVISED PER ADDENDUM # 2 | GGO |
| 1 | 5/31/91 | DELETED NOTE PER ADDENDUM NO. 1 | BVB |

DESIGNED YCL
DRAWN RAP GGO
CHECKED SRS

ENGINEER OF RECORD

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Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING EFFLUENT FILTER
REMOVAL & MODIFICATIONS PLAN
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 73 OF 166

PROJ. NO. 87054-2
FILE NO. 13046

92016

AIR CONDITIONING CONDENSER

REMOVE EXISTING VENTILATOR (TYP. 4 PLACES)

8" CMU WALL (TYP.)

GRATING

TEMPORARILY BLOCK THIS OPENING FOR MAINTAINING EXIST. FILTERS IN OPERATION (2)

STOP GATE (3)

REMOVE EXISTING 6"x4'x14' PRECAST CONCRETE ROOF SLABS WITHIN THESE LIMITS

CONC. LANDING & STAIR TO BE REMOVED FOR TEMORARY PIPE CONNECTION & REPLACED AFTER NEW FILTERS ARE IN OPERATION, SEE DETAILS SHT. 89

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N

49.58 DOWN

HATCH BILCO *KD-2 OR EQUAL

14' - 0"

16' - 6"

1-1/2" SODIUM HYPOCHLORITE ℄ EL. 55.75

BACKWASH PUMP MOTORS TO BE RELOCATED

AIR HANDLER

6' - 4"

6' - 0"

7' - 0"

7' - 0"

4' - 0"

5' 3'-0"

SODIUM HYPOCHLORITE FEED PUMPS

58.00

EFFLUENT PUMP MOTORS

30" X 6" DUCT

ELECTRICAL CONTROL CENTER

SODIUM HYPOCHLORITE DRUM STORAGE

ANALYZER

½" TUBING W/PRESS. SWITCH - SEE DETAIL SHT. 75

VENTILATOR

2" POTABLE

HOIST RAIL

CENTERLINE

SINK

DELUGE SHOWER & EYEWASH

UP

PUMP HATCH

4" DRAIN

VALVE BOX

4' - 4"

7' - 3"

2' - 0" (TYP)

30" EFFLUENT ℄ EL. 50.00

SAMPLER PIPING SEE DETAIL SHT. 75

COMBINATION AIR RELEASE VALVE APCO MODEL 151C OR EQUAL

24" D.I.P. ℄ELEV. 53.50

8" BACKWASH RETURN ℄ ELEV. 50.00

HANDHOLE (TYP)

3/4" AIR RELEASE VALVES APCO MODEL 61 OR EQUAL

SEE NOTES 1 & 2 ON SHT. 73 FOR ORDER OF REMOVAL

TOP OF TREAD PLATE 61.00

BUBBLER SELECTOR PANEL

LADDER

COVER PLATE

TOP OF GRATING 61.00

1-1/2" SODIUM HYPOCHLORITE ℄ EL 60.17

18" FILTER CELL INFLUENT ℄ EL 58.75

3/4" G.V. & PLUG CHAIN

HANDRAIL

REMOVE EXIST. PNEUMATIC VALVE OPERATOR & STAND (TYP. 25 PLACES)

WEIR BOX (TYP)

3" PROCESS AIR ℄ EL. 60.25

INFLUENT BACKWASH TROUGH (TYP)

3" VENT (TYP 32 PLACES)

61.00

55.42

53.00

61.00

TOP OF GRATING 61.00

LADDER

HOSE REEL W/ 50' HOSE 2 PLACES

52' - 0"

DOWN 57.00

4" EFW ℄ EL. 50.00

26' - 7"

20" BACKWASH EFFLUENT ℄ EL. 55.83

WALKWAY VENTS N.T.S.

4 VENTS AT THIS DIM.

12 VENTS AT THIS DIM.

NEW ELBOWS (BY ZIMPRO) EL 61.19 3 REQ'D

2¼" MIN.

EXIST. ELBOW

EXIST. PIPE

TYPICAL AIR VENT N.T.S.

TOP OF CELL EL 61.0

RE-USE ELBOW

℄ ELEV 61.19

TRIM OLD PIPE FLUSH

℄ OF AIR DIFFUSER HEADER EL 60.75

EL 59.75

NEW PIPE (BY ZIMPRO)

NEW COUPLING (BY ZIMPRO) 14 REQ'D

4" TRIM EXISTING PIPE OPERATING W.L. EL 58.75

TOP OF SAND EL 54.58

ELEV 58.0

UNDERDRAIN FRAME

PNEUMATIC VALVE ACTUATORS TYP. 40 PLACES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AND COMPARE WITH THESE PLANS TO INSURE ADEQUATE PERFORMANCE AND COST ESTIMATION TO COMPLETE THE JOB AS SPECIFIED.

(3) PHASE 3 CONSTRUCTION ITEM

(4) PHASE 4 CONSTRUCTION ITEM

## UPPER LEVEL PLAN

SCALE: ¼" = 1'-0"

# RECORD DRAWING

LEGEND

- BOXED CALLOUTS INDICATE MOD./ PROPOSED WORK
- REMOVAL
- EXISTING TO REMAIN
- PROPOSED

| STATUS | ACT. ON DATE |
|---|---|
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| REV. NO. | DATE | REVISION | BY |
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DESIGNED YCL | DRAWN RAP SGO | CHECKED SRS | ENGINEER OF RECORD

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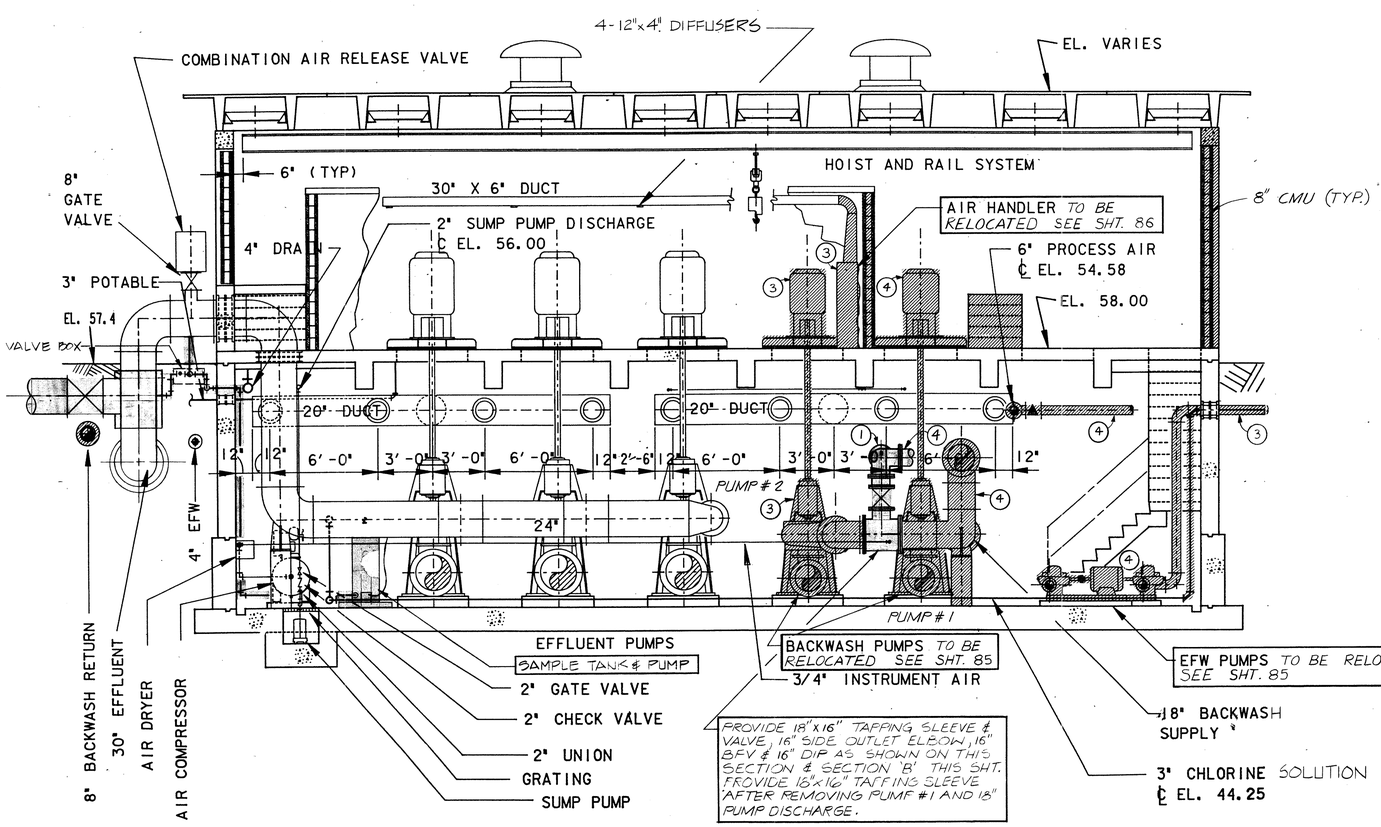
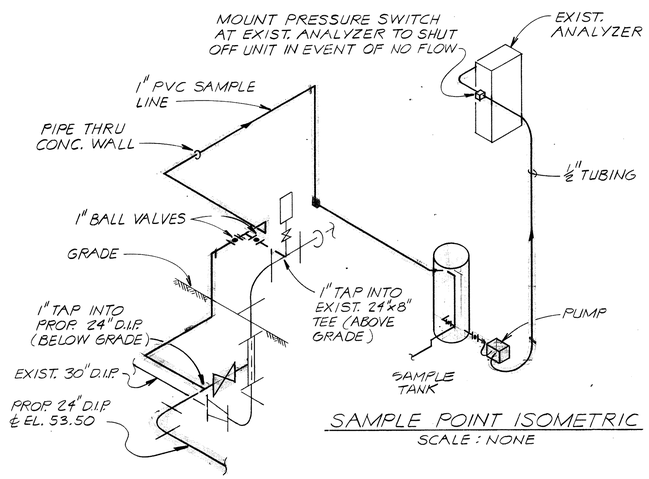
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING EFFLUENT FILTER REMOVAL & MODIFICATIONS PLAN
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 74 OF 166
PROJ. NO. 87054-2
FILE NO. 13047

92016

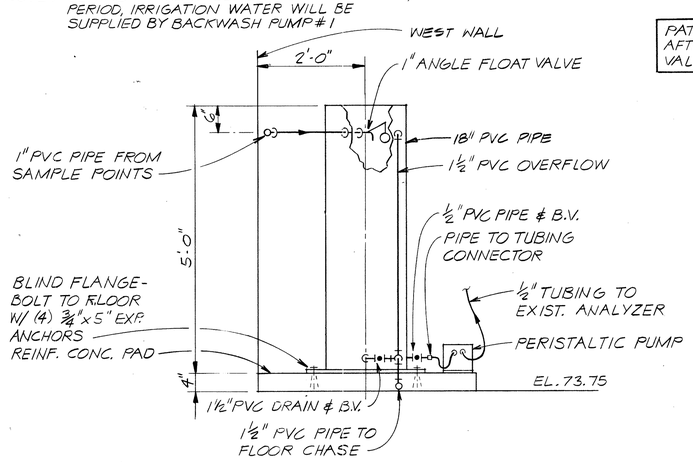



SECTION A
SCALE: 1/4"=1'-0" 73 74 75

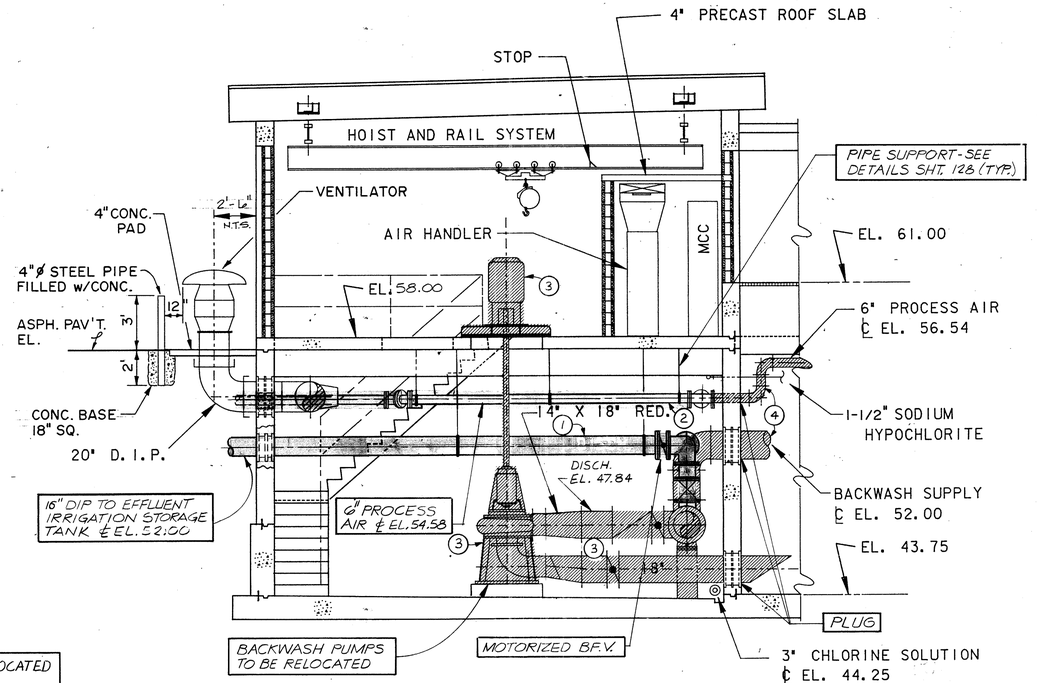



SAMPLE POINT ISOMETRIC
SCALE: NONE

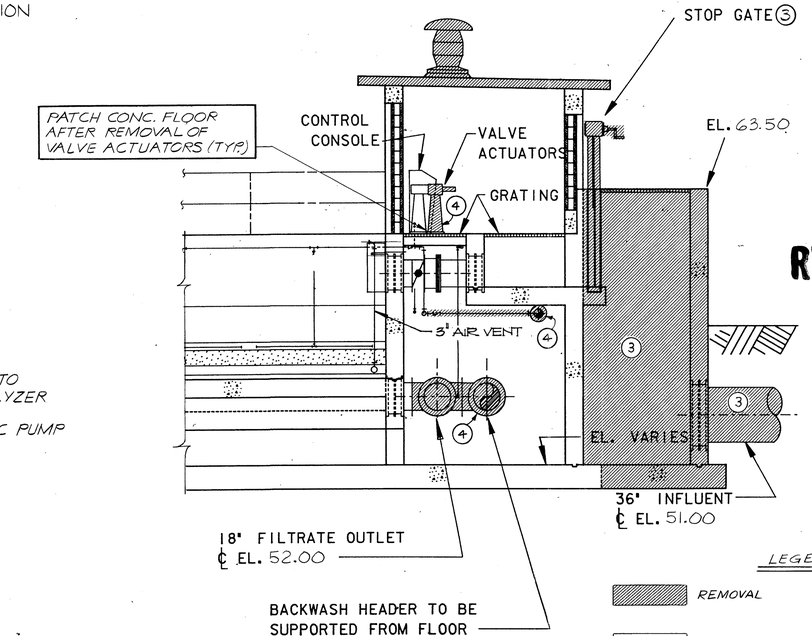
NOTE: DURING PHASE 3 CONSTRUCTION PERIOD, IRRIGATION WATER WILL BE SUPPLIED BY BACKWASH PUMP #1




SAMPLE TANK & PUMP
SCALE: 3/4"=1'-0"




SECTION B
SCALE: 1/4"=1'-0" 73 74 75




SECTION C
SCALE: 1/4"=1'-0" 73 74 75

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**RECORD DRAWING**

1. PHASE 1 CONSTRUCTION ITEM
2. PHASE 2 CONSTRUCTION ITEM
3. PHASE 3 CONSTRUCTION ITEM
4. PHASE 4 CONSTRUCTION ITEM

LEGEND
- REMOVAL
- EXISTING TO REMAIN
- PROPOSED
- BOXED CALLOUTS INDICATE MODIFICATIONS/PROP. WORK

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| RD. | RECORD DRAWING |

# SAMPLING SYSTEM

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 5-21-89 | MODIFIED NOTE AS PER ADDENDUM No 1 | BVB |

DESIGNED YCL | DRAWN RAP | CHECKED SRS | ENGINEER OF RECORD:

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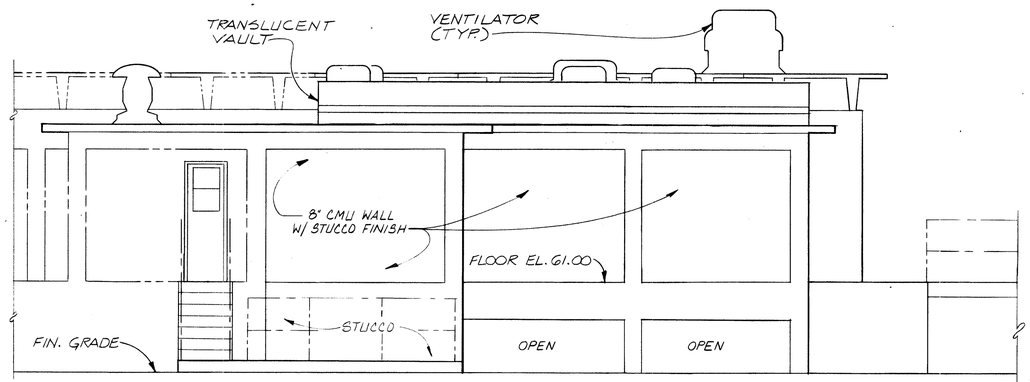
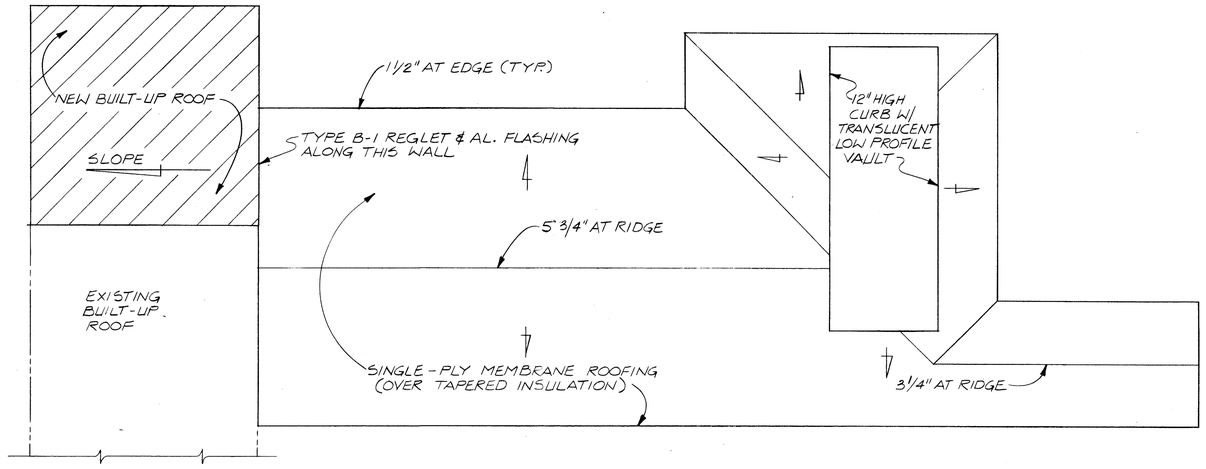
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING EFFLUENT FILTER - REMOVAL & MODIFICATIONS SECTIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | PROJ. NO. 87054-2
SCALE: AS SHOWN | FILE NO. 13048
SHEET NO. 75 OF 166

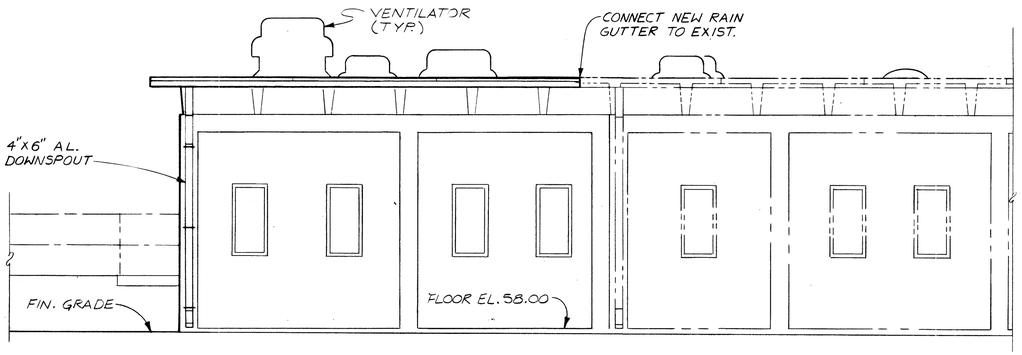
92016



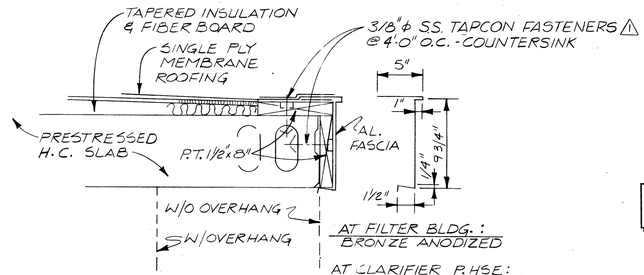

EAST ELEVATION
SCALE: 1/4" = 1'-0"



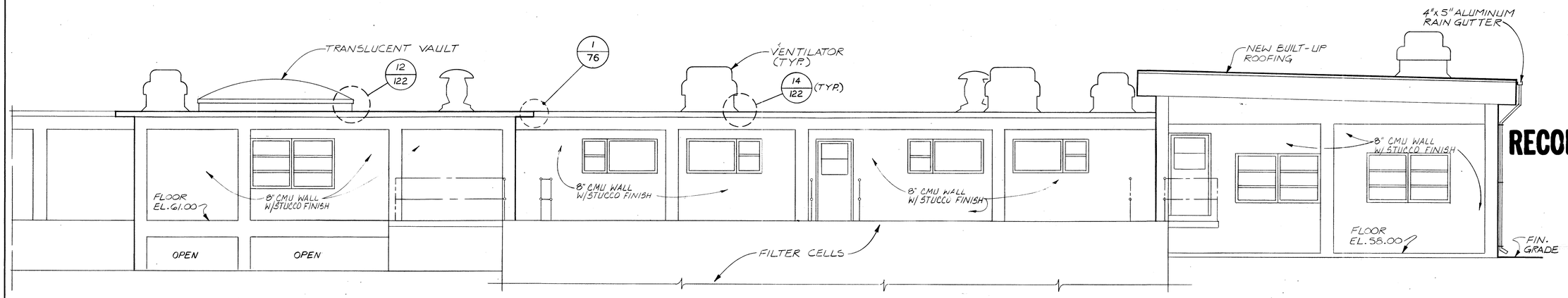

ROOFING PLAN
SCALE: 1/8" = 1'-0"




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




EDGE DETAIL (1/76)
SCALE: 1 1/2" = 1'-0"




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

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LEGEND

EXISTING

PROPOSED

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| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 2 | 7-17-91 | RECORD DRAWING | WLS |
| 1 | | | |

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DRAWN KTB SGO
CHECKED SRS

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER-**
**ARCHITECTURAL ELEVATIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1/4" = 1'-0"
SHEET NO. 76 OF 166

PROJ. NO. 87054-2
FILE NO. 13049

92016

N

MATCHLINE X-X

PLAN @ STAIRWELL
SCALE: 1/4" = 1'-0"

402 PIPE GALLERY

| | | | | | |
|---|---|---|---|---|---|
| 1 | 2 | 2 | 1 | 3 | 12'-0" + |

SEE FIN. SCHED. SHT. 121

LOWER LEVEL SHALL MATCH THIS SCHEDULE

402 UPPER PUMP ROOM ADDITION

| | | | | | |
|---|---|---|---|---|---|
| 3 | 2 | 2 | | 2 | 12'-0" |

ON EXIST FLOOR PROVIDE NEW TOP COAT W/SAND

FILTER 9 | FILTER 10 | FILTER 11 | FILTER 12

CLEARWELL (BELOW)

INFLUENT BOX

EQUALIZATION PUMP STATION

403 FILTER OPERATING LEVEL ADDITION

| | | | | | |
|---|---|---|---|---|---|
| 3 | 2 | 2 | 1 | 3 | 8'-4" |

ON EXIST FLOOR PROVIDE NEW TOP COAT W/SAND

404 MCC

| | | | | |
|---|---|---|---|---|
| 3 | 2 | 2 | | 12'-0" |

ON EXIST. FLOOR PROVIDE NEW TOP COAT W/ SAND

*PROJECT-OUT

61.00 TOP OF GRATING (TYP.)

GRATING

INFLUENT CHANNEL

LADDER

FLOOR HATCH

PRECAST ROOF SLABS

PROPOSED 8" CMU WALL (EXTENSION OF EXIST. MCC ROOM)

4"x4"x¼" L SUPPORT 6'-0"

EXISTING (EXCEPT AS NOTED)

PROPOSED

EXISTING

EXISTING INFLUENT CHANNEL

FILTER 1 | FILTER 2 | FILTER 3 | FILTER 4 | FILTER 5 | FILTER 6 | FILTER 7 | FILTER 8

UPPER LEVEL PLAN

MATCHLINE X-X

4" PRECAST CONC. SLABS
EL. 67.00
WOOD FASCIA TO MATCH EXIST.
8" CMU

DETAIL 2/77
NTS

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LEGEND
EXISTING
PROPOSED

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| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
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| 2 | 7-17-91 | RECORD DRAWING | WLS |
| 1 | 5-31-89 | REVISED PER ADDENDUM #3 | KRM |

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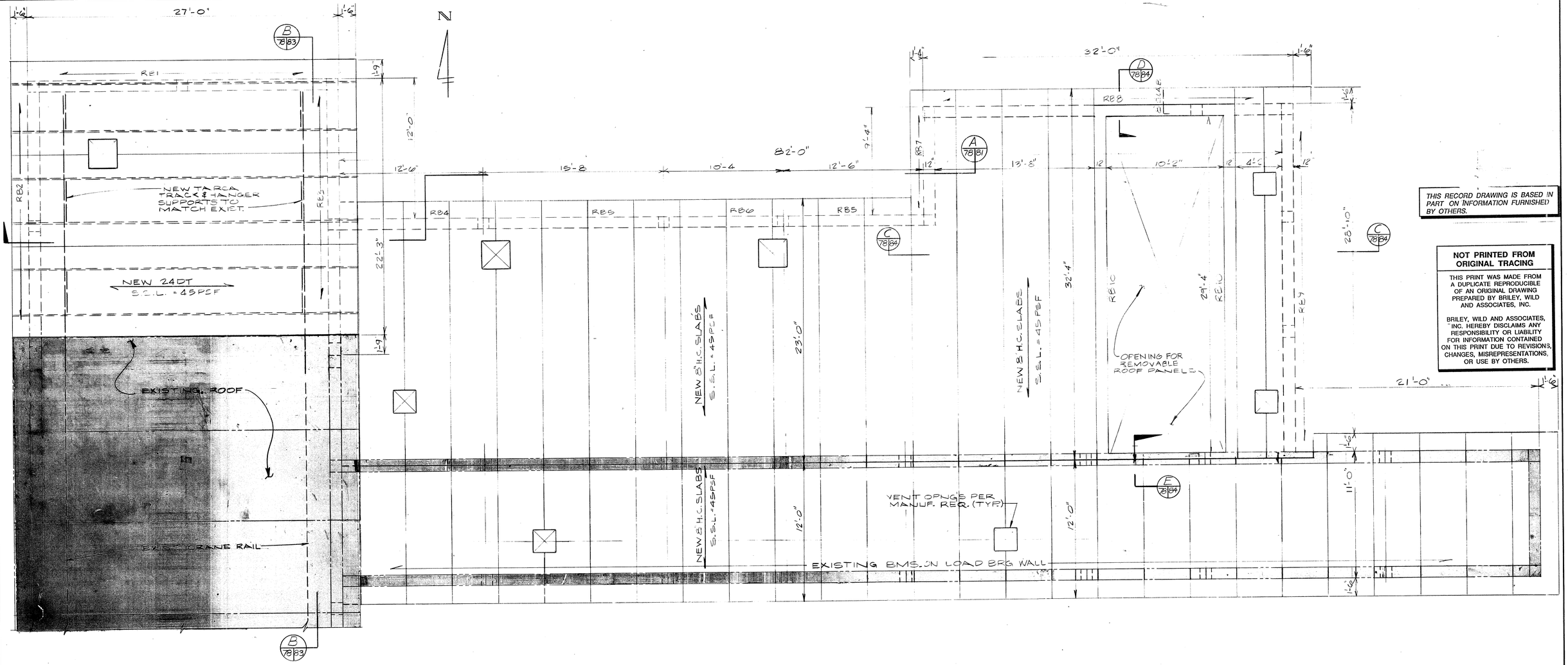
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EFFLUENT FILTER-
ARCHITECTURAL PLAN
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1/4" = 1'-0"
SHEET NO. 77 OF 166

PROJ. NO. 87054-2
FILE NO. 13050

92016

304454

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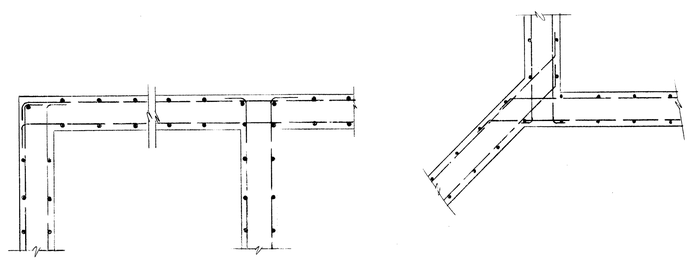
ROOF PLAN
1/4" = 1'-0"



TYPICAL WALL REINFORCEMENT DETAILS
1/2" = 1'-0"

## FLOOR BEAM SCHEDULE

| MK | SIZE | REINFORCEMENT BOTT. | REINFORCEMENT C | REINFORCEMENT TOP | STIRRUPS EACH END | REMARKS |
|---|---|---|---|---|---|---|
| B1 | 12x26 | 6#9* | | 2#7 | 6#3@6, @12" | *2 LAYERS |
| B2 | 12x33 | 3#8 | 1#7 | 2#9 | #4@6 | |
| B3 | 12x33 | 2#9 | 1#7 | 2#7 | #4@12 | |
| B4 | 12x24 | 2#7 | | 2#6 | 3#3@12 | |
| B5 | 12x24 | 2#9 | | 2#6 | 6#3@3, "4@12 | |
| B6 | 12x48 | 2#8 | | 2#6 | #4@12 | 2#5 E.E. #3-0" INTO B7 |
| B7 | 12x60 | 2#7 | | 2#5 | #4@6" | GROOVE TOP FOR GATE (SECT.) |
| B8 | 12x30 | 2#7 | | 2#6 | 6#3@6, 4@12" | |
| B9 | 12x36 | 2#8 | | 2#6 | 4#3@6, 6@12" | |

## ROOF BEAM SCHEDULE

| MK | SIZE | REINFORCEMENT BOTT. | REINFORCEMENT TOP | #3 STIRRUPS EACH END | REMARKS |
|---|---|---|---|---|---|
| RB1 | 16/12x | 2#6 | 2#5 | @16" | |
| RB2 | 16 | 2#6 | 2#5 | 6@3", @16" | |
| RB3 | 16x23 | 2#7 | 2#5 | 6@10, @16" | |
| RB4 | 12x20 | 2#7 | 2#5 | 5@10" | |
| ⚠ RB5 | 12x16 | 2#5 | 2#5 | 6@10" | |
| ⚠ RB6 | 12x16 | 2#7 | 2#5 | 5@10" | |
| ⚠ RB7 | 12x16 | 2#6 | 2#5 | 3@10" | |
| RB8 | 12x20 | 2#7 | 2#5 | 4@10" | |
| RB9 | 12x20 | 2#7 | 2#5 | 3@10" | |
| RB10 | 12x32 | 2#8 | 2#5 | 2@3", REM. @16" | SEE SECT'S 'D' & 'E' |

LEGEND

EXISTING

PROPOSED

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
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| RD | RECORD DRAWING |

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DESIGNED JTS | DRAWN RMO | CHECKED SRS

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER-**
**ROOF PLAN**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 78 OF 166

PROJ. NO. 87054-2 | FILE NO. 13051

92016

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MATCH LINE "X-X"

SUMP 43.75
12" WALL SLEEVE @ EL. 44.25
3" WALL SLEEVE @ EL. 54.58
MUDWELL
45.25
3" WALL SLEEVE AT @ EL. 54.58'
6" WALL SLEEVE AT @ EL. 56.58'
43.33
GUTTER 6" W. x 2" D.
43.58
2'-0" DIA. SUMP
43.00
43.75
45.00'
CLEARWELL
4'-0" SQ. PUMP PADS
SUMP 12'-6"
18" WALL SLEEVE @ EL. 45.83
43.50
1" PIPE SLEEVE AT @ EL. 56.54
2" PIPE SLEEVE AT @ EL. 48.00
NEW PUMP ROOM
NEW STAIRS
49.58
DN
18" WALL SLEEVE @ EL. 52.00
42" WALL SLEEVE AT @ EL. 45.50'
42.50'
CUT WALL OPN'G 3'-0" W. x 7'-0" H. BOT. EL. 49.58'
CUT WALL OPNG; 3'-6" W x 4'-6" H. BOT. EL. 50.75
NEW 18" W.S. @ EL. 52.00
NEW 3" WALL SLEEVE @ EL. 44.25 *
1" PIPE SLEEVE AT @ EL. 47.50
NEW 6" WALL SLEEVE @ EL. 54.58 *
EXISTING PUMP ROOM
43.75
EXIST. WALL
NEW 8" WALL SLEEVE @ EL. 44.64 (TYP. 2 PL.)
NEW 16" WALL SLEEVE @ EL. 52.00 *
EXIST. WALL
43.50
43.75'
* COORDINATE HORIZONTAL LOCATION WITH MECHANICAL DURING CONSTRUCTION.
NEW PIPE GALLERY
44.83
48.00
42.75
NEW 12" WALL
EXISTING SUMP
NEW 3" WALL SLEEVE AT @ EL. 53.91' (TYP. 12 PLACES)
NEW 18" WALL SLEEVE AT @ EL. 52.00' (TYP. 24 PLACES)
48.00
4'-3" (TYP.)
EXISTING CLEARWELL
3'-6" (TYP.)
@ FILTER 1
@ FILTER 2
@ FILTER 3
@ FILTER 4
@ FILTER 5
@ FILTER 6
@ FILTER 7
@ FILTER 8
WALL OVER
GUTTER, 6" W. x 2" D.
EDGE OF EXISTING FOOTING
1½" PIPE SLEEVE AT EL. 56.83 (TYP. 12 PLACES)
EXISTING WALL
NEW 54" STD PIPE COL. W/ 12" x 28" x 12" BASE PL. & CAP PL. 12-1¼" S.S. EXP. BOLTS TOP & BOT. (TYP.)
EXIST. COLUMN BOT. @ EL. 52.23
48.50
48.50'
45.50
45.33
43.50

LOWER LEVEL PLAN
1/4" = 1'-0"

42" WALL SLEEVE @ EL. 51.75
INFLUENT BOX
45.25
24" WALL SLEEVE @ EL. 51.75
EQUALIZATION P.S. WETWELL
43.00
43.00
43.00
2'-3" WIDE x 4'-0" HIGH OPENING (TYP. 4 PLCS.)
GUTTER, 6" W. x 2" D.

MATCH LINE "X-X"
51.33
45.50
1'-6" SQ. SUMP
43.33
45.33

△ = FOOTING 3'-0" x 3'-0" x 12" W/ 4" T.E.W. BOT.

COLUMN SCHEDULE

| MK | SIZE | VERT. BAR | TIES |
|---|---|---|---|
| A | 12 x 12 | 4 #7 | #2@12" |
| B | 12 x 12 | 4 #8 | #3@12" |
| C | 12 x 12 | 4 #10 | #3@12" |
| D | 12 x 28 | 6 #7 | PR. #2@12 |
| E | 24 x 24 | 6 #6 | PR. #2@12 |

| STATUS | ACTION DATE |
|---|---|
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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

LEGEND
- EXISTING
- PROPOSED

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EFFLUENT FILTER-
STRUCTURAL FOUNDATION PLAN
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 79 OF 166
PROJ. NO. 87054-2
FILE NO. 13052

92016

N

MUDWELL

FILTER 9 | FILTER 10 | FILTER 11 | FILTER 12

INFLUENT BOX

EQUALIZATION PUMP STATION

MCC ROOM ADDITION SEE SHT. 77 FOR LAYOUT DIMENSIONS

EXISTING OPERATING LEVEL 58.00

PIPE GALLERY (BELOW)

CLEARWELL (BELOW)

INFLUENT CHANNEL

OPENING FOR VENTILATOR

FILTER 1 | FILTER 2 | FILTER 3 | FILTER 4 | FILTER 5 | FILTER 6 | FILTER 7 | FILTER 8

## UPPER LEVEL PLAN

1/4" = 1'-0"

MATCH LINE 'X-X'

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NOTE: SEE FLOOR BEAM SCHEDULE ON SHEET NO. 78

LEGEND: EXISTING | PROPOSED

**RECORD DRAWING**

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| RD | RECORD DRAWING |

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| 1 | 7-17-91 | RECORD DRAWING | WLS |

DESIGNED JTS | DRAWN SGO RMO | CHECKED ERS

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

**EFFLUENT FILTER-STRUCTURAL PLAN**

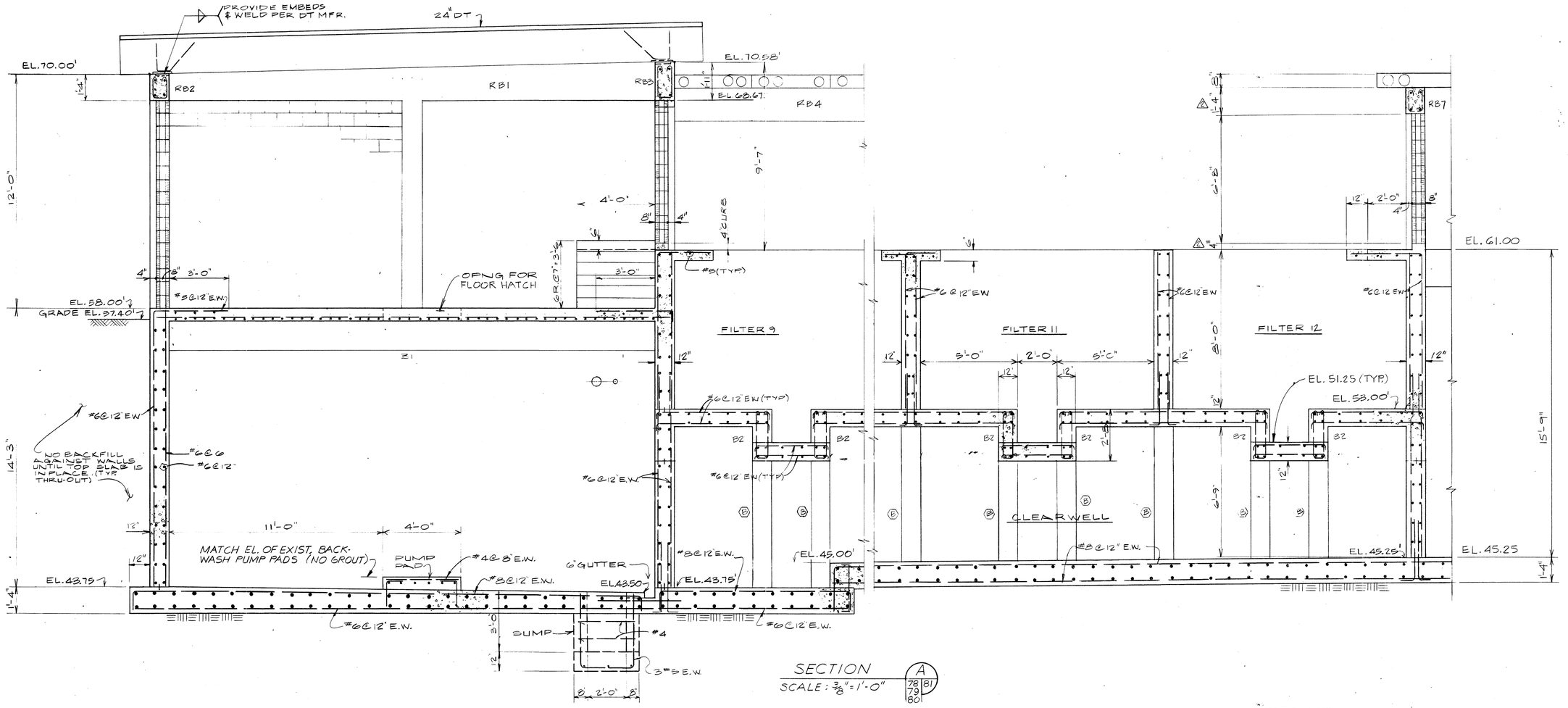
CLEARWATER, FLORIDA

DATE: OCT. 1988 | PROJ. NO. 87054-2

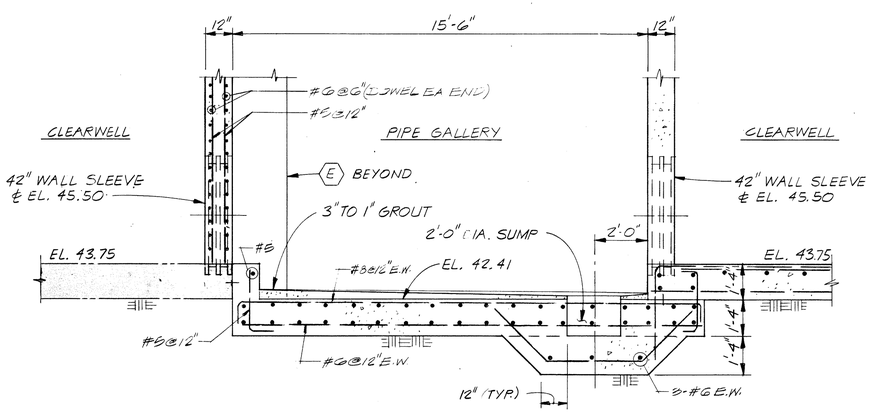
SCALE: AS SHOWN | FILE NO. 13053

SHEET NO. 80 OF 166

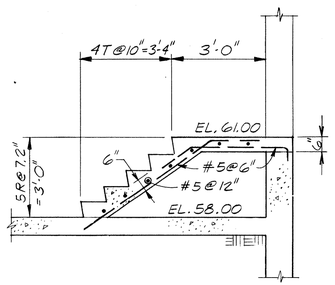
92016



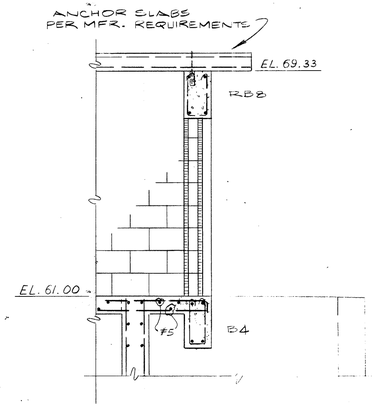

SECTION A
SCALE: 3/8" = 1'-0"
78 79 80 81




SECTION R
SCALE: 3/8" = 1'-0"
79 81




SECTION P
SCALE: 3/8" = 1'-0"
80 81




SECTION N
SCALE: 3/8" = 1'-0"
80 81

LEGEND

EXISTING

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| A | 5-31-89 | REVISED PER ADDENDUM #2 | SGO |

DESIGNED JTS | DRAWN SGO / RMO | CHECKED SRS

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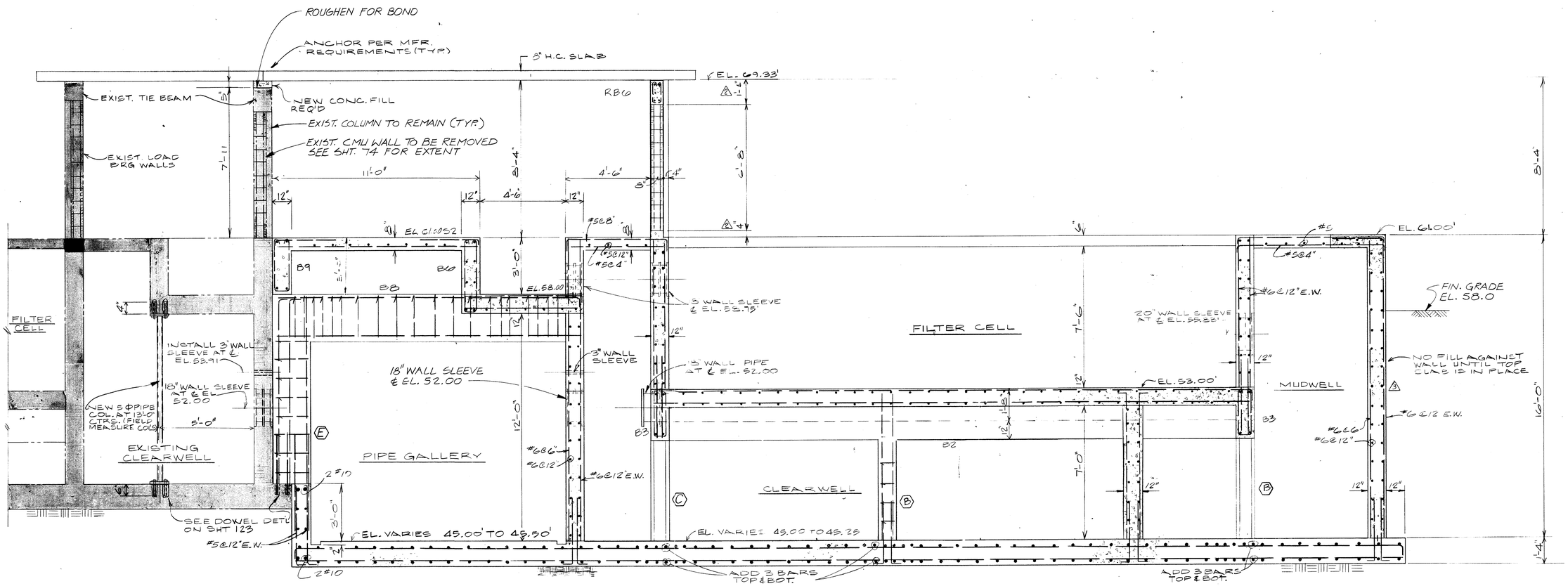
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER-STRUCTURAL SECTIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 3/8"=1'-0"
SHEET NO. 81 OF 166

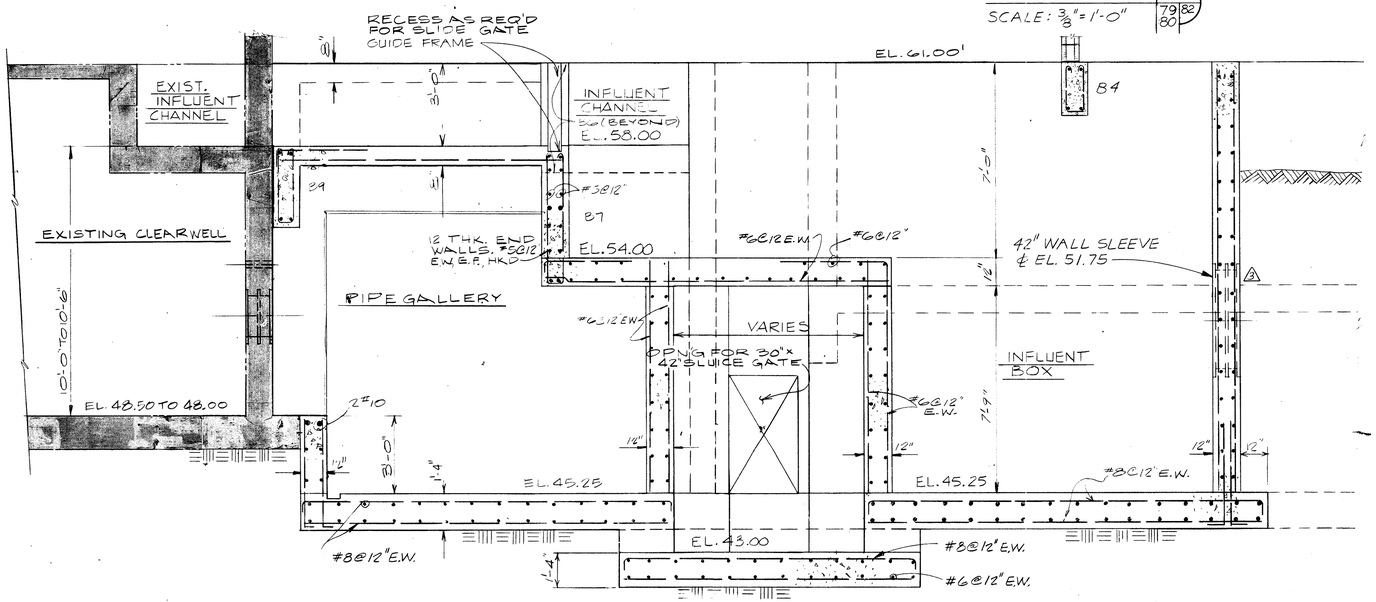
PROJ. NO. 87054-2
FILE NO. 13054

92016



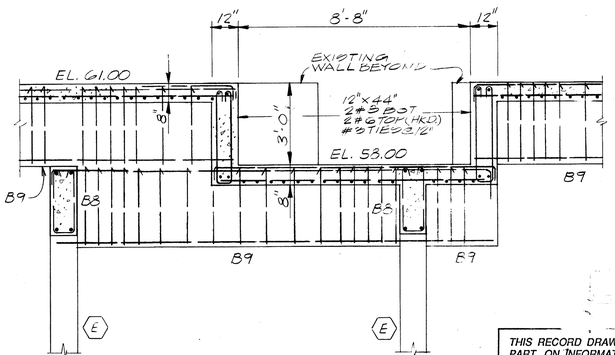

## SECTION (H)

SCALE: 3/8"=1'-0"  79 80 82




## SECTION (F)

SCALE: 3/8"=1'-0"  79, 80 82




## SECTION (S)

SCALE: 3/8"=1'-0"  80 82

# RECORD DRAWING

LEGEND

EXISTING

PROPOSED

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| C | CHECK PRINT |
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| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 3/1992 | RECORD DRAWING | RAP |
| 1 | 5-31-89 | REVISED PER ADDENDUM #2 | SGO |

DESIGNED JTS | DRAWN KTS RMD | CHECKED SRS

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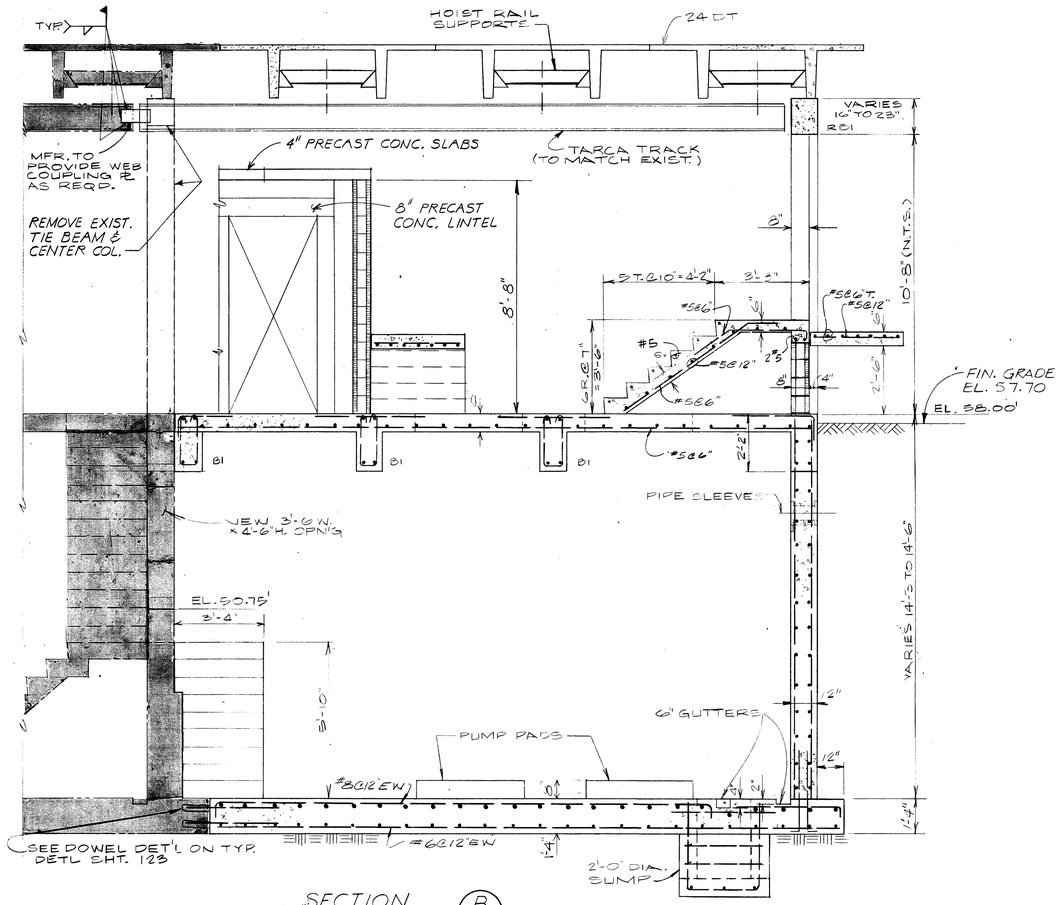
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER-**
**STRUCTURAL SECTIONS**
CLEARWATER, FLORIDA

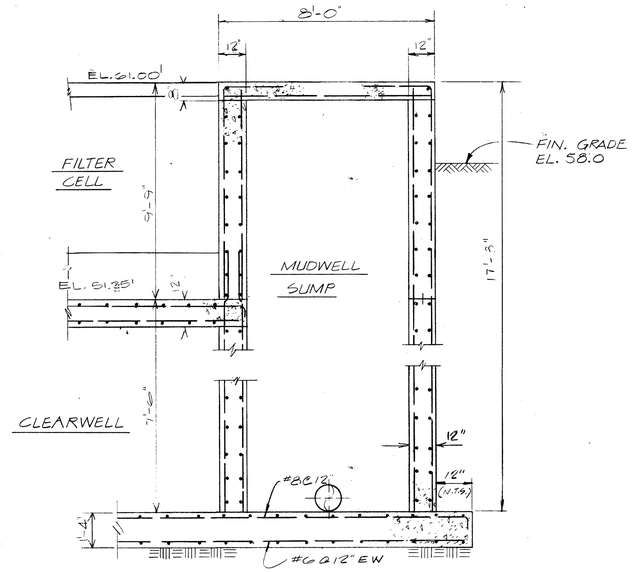
DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 82 OF 166

PROJ. NO. 87054-2 | FILE NO. 13055

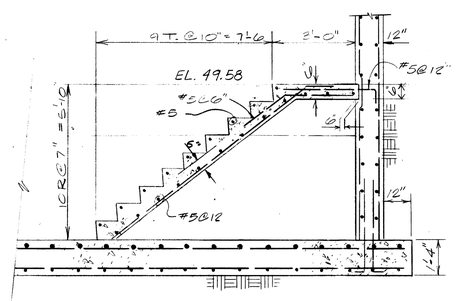
92016



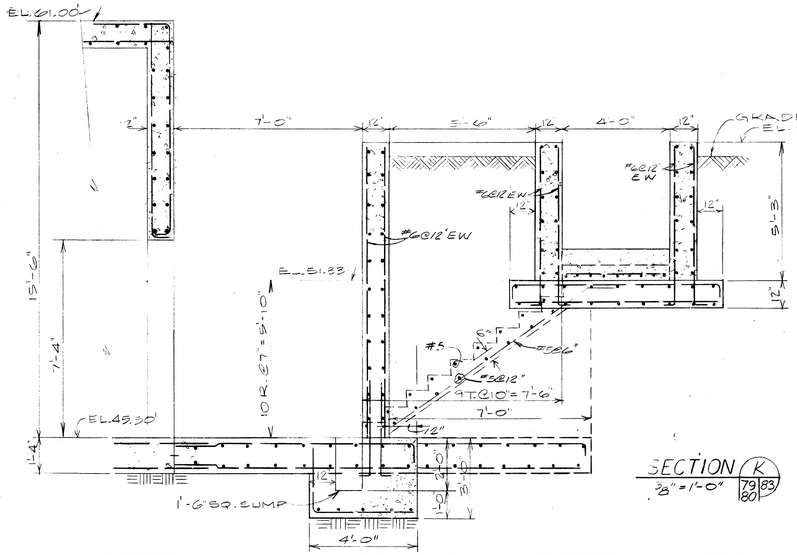

SECTION B
SCALE: 3/8" = 1'-0"
78 79 80 | 83



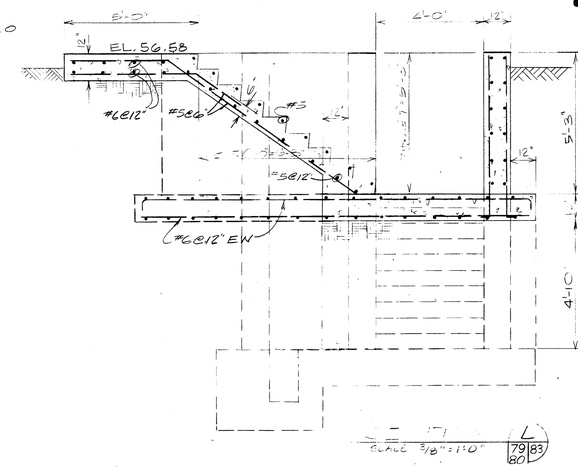

SECTION G
SCALE: 3/8" = 1'-0"
79 80 | 83




SECTION J
SCALE: 3/8" = 1'-0"
79 83




SECTION K
3/8" = 1'-0"
79 80 | 83




SCALE 3/8" = 1'-0"
L
79 80 | 83

LEGEND
EXISTING
PROPOSED

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
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| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
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| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
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DRAWN RMD
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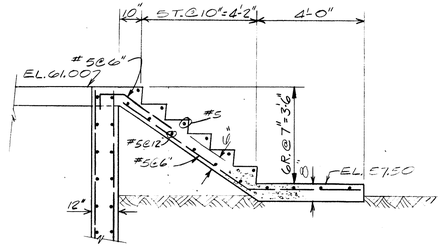
*Ormond Beach - Clearwater - Bradenton, Florida*

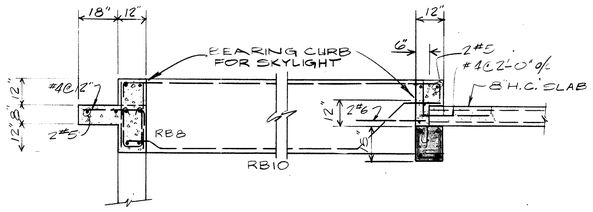
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER-STRUCTURAL SECTIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 83 OF 166
PROJ. NO. 87054-2
FILE NO. 13056

92016

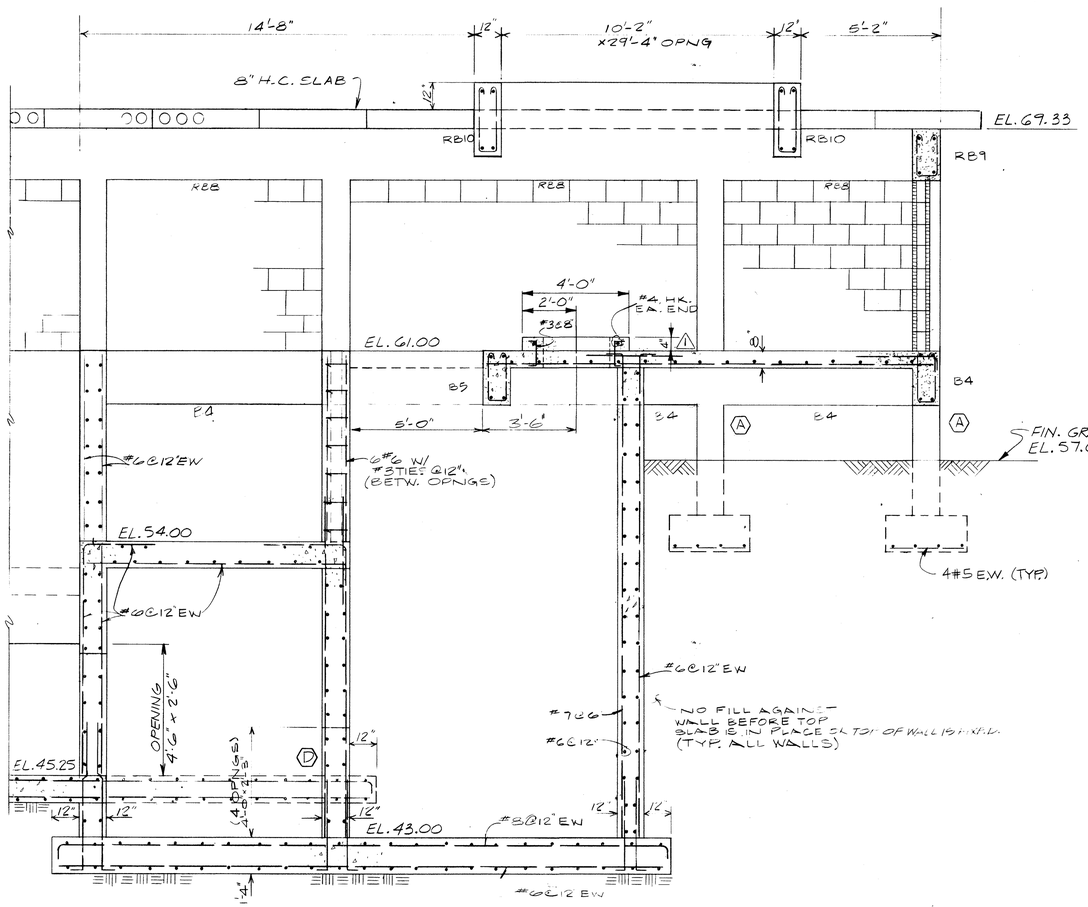



SECTION (M) 80 84
3/8" = 1'-0"




SECTION (D) 78 84
3/8" = 1'-0"

SECTION (E) 78 84
3/8" = 1'-0"




SECTION (C) 78 79 80 84
SCALE: 3/8" = 1'-0"

LEGEND

EXISTING

PROPOSED

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| REV. NO. | DATE | REVISION | BY |
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| 1 | 7-17-91 | RECORD DRAWING | WLS |

DESIGNED JTS
DRAWN KTB RMO
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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER-**
**STRUCTURAL SECTIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 84 OF 166

PROJ. NO. 87054-2
FILE NO. 13057

92016

PLAN AT SF-10
SCALE: 3/4" = 1'-0"

STAIR WELL PLAN
SCALE: 1/4 = 1'-0"

LOWER LEVEL PLAN
SCALE: 1/4" = 1'-0"

**NOTE**
ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/OR UNDERGROUND SHALL BE AS SPECIFIED IN SECTION 15061 - STEEL PIPE. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

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| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED - DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 1 | 5-31-91 | REVISED AS PER ADDENDUM NO 1 | BVB |

DESIGNED YCL
DRAWN KTB 560
CHECKED ERS

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER-MECHANICAL PLAN**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 85 OF 166
PROJ. NO. 87054-2
FILE NO. 13058

92016

**NOTE**
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## FUTURE PUMP COVER ℄ DETAIL
SCALE: 1/2" = 1'-0"

## STAIR WELL PLAN
SCALE: 1/4" = 1'-0"

## UPPER LEVEL PLAN
SCALE: 1/4" = 1'-0"

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| RD | 4-21-92 |

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| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 7-15-91 | RECORD DRAWING | WLS |
| 1 | 5-21-89 | REVISED PER ADDENDUM NO 1 | BVB |

DESIGNED YCL · DRAWN KTB 5-90 · CHECKED YCL

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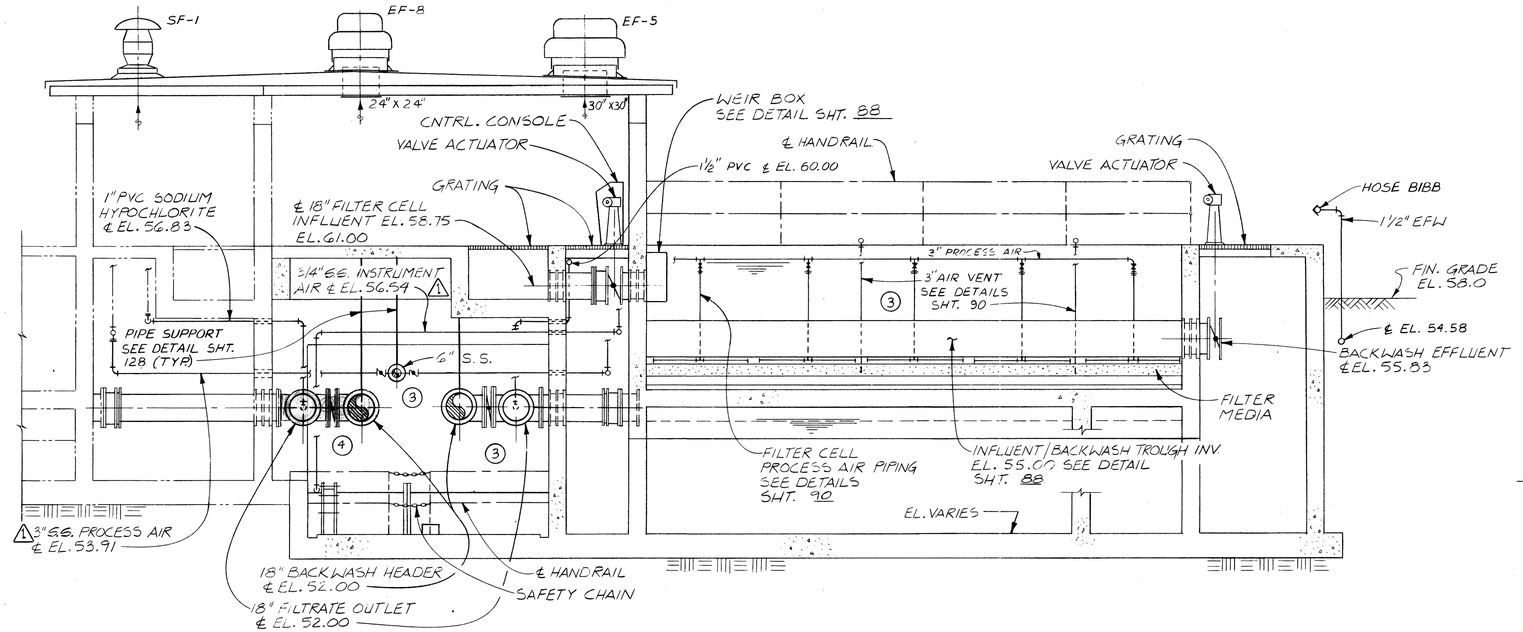
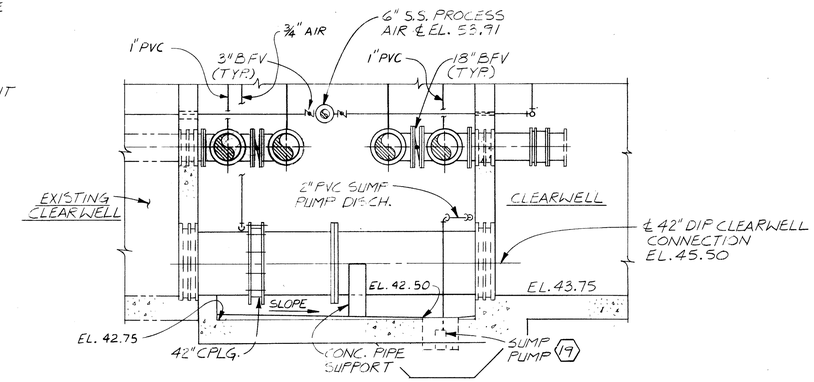
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER-MECHANICAL PLAN**
CLEARWATER, FLORIDA

DATE: OCT. 1988 · SCALE: AS SHOWN · SHEET NO. 86 OF 166
PROJ. NO. 87054-2 · FILE NO. 13059

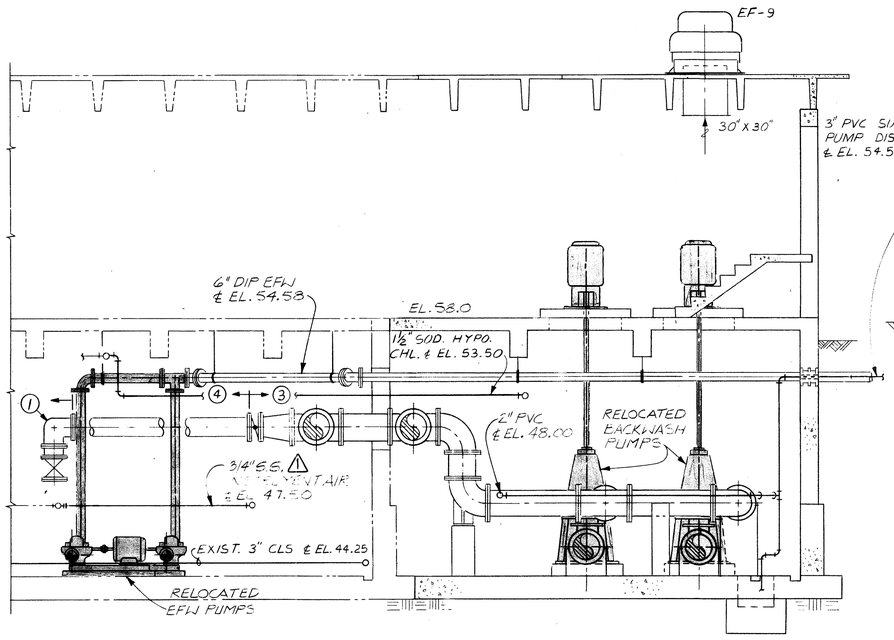
92016



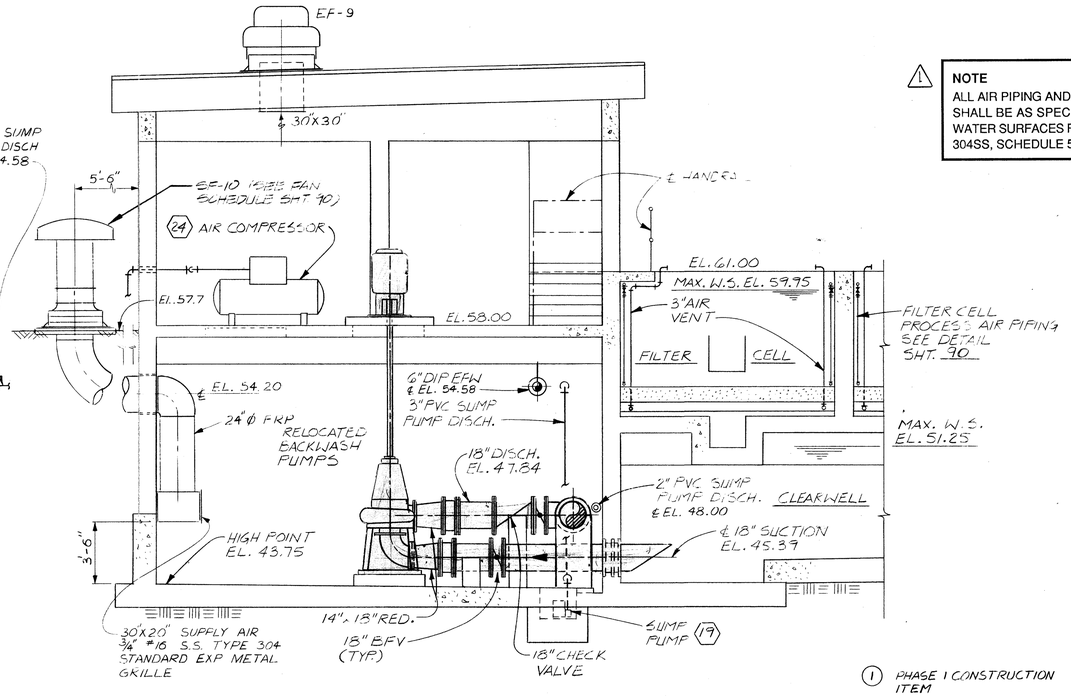

SECTION A (85 86 | 87)
SCALE: 1/4"=1'-0"




SECTION D (85 87)
SCALE: 1/4"=1'-0"




SECTION B (85 86 | 87)
SCALE: 1/4"=1'-0"




SECTION C (85 86 | 87)
SCALE: 1/4"=1'-0"

**NOTE**
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| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

LEGEND
- EXISTING
- PROPOSED
- RELOCATED EXISTING

(1) PHASE 1 CONSTRUCTION ITEM
(3) PHASE 3 CONSTRUCTION ITEM
(4) PHASE 4 CONSTRUCTION ITEM

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 5-31-89 | REVISED AS PER ADDENDUM NO. 1 | BVB |

DESIGNED YCL | DRAWN KTB SDO | CHECKED YCL

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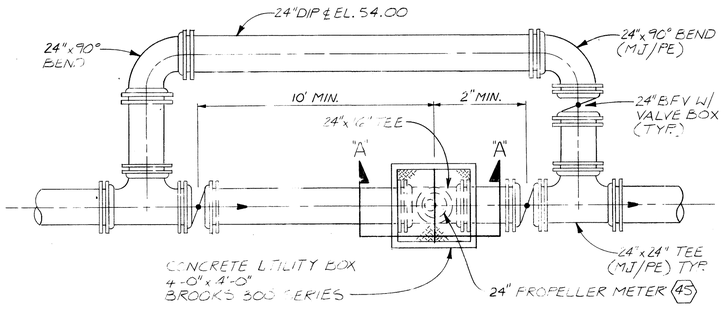
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER- MECHANICAL SECTIONS**
CLEARWATER, FLORIDA

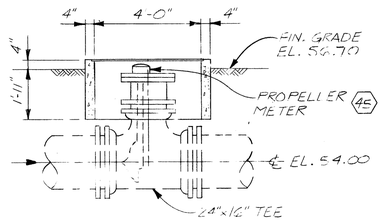
DATE: OCT. 1988
SCALE: 1/4"=1'-0"
SHEET NO. 87 OF 166

PROJ. NO. 87054-2
FILE NO. 13060

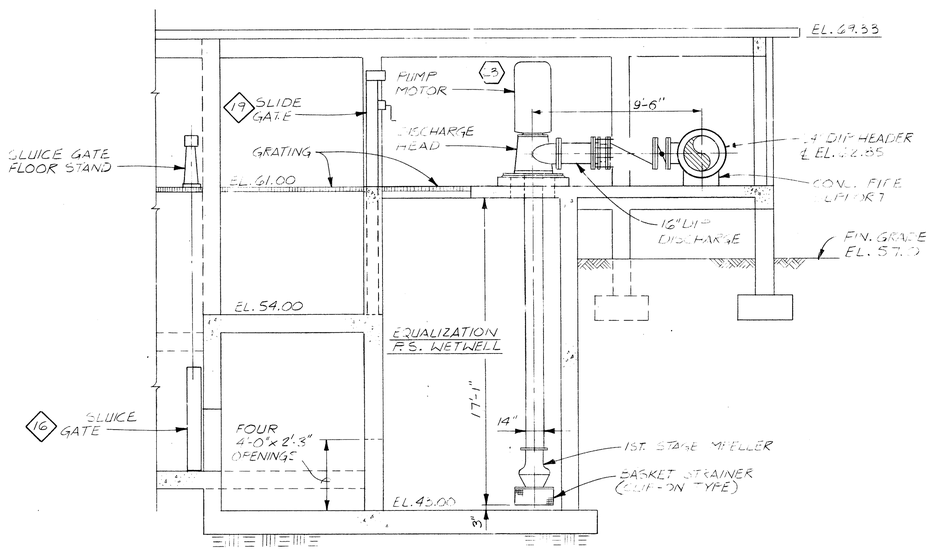
92016



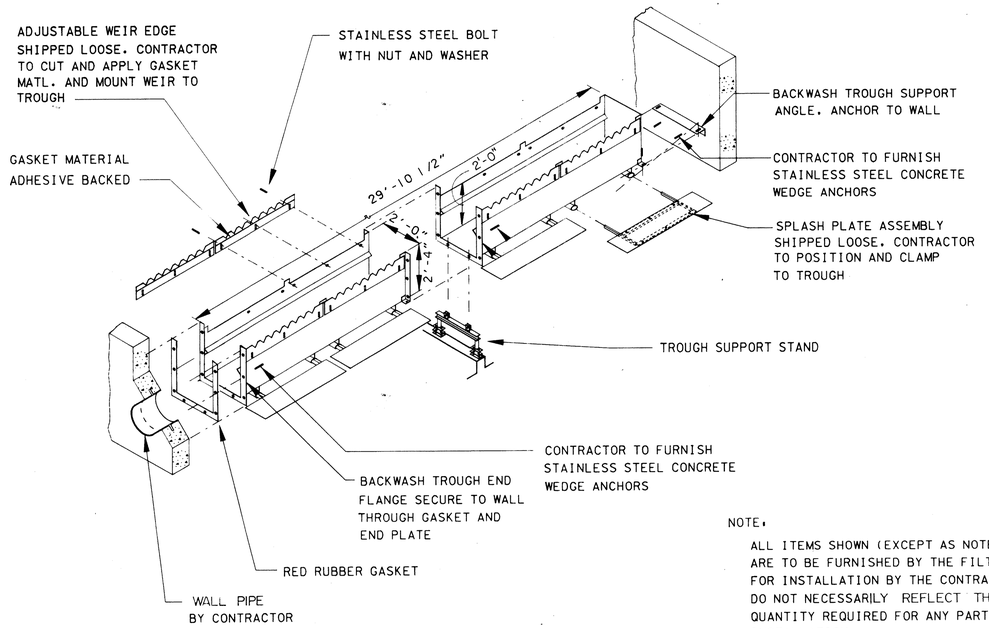

PLAN-EQUALIZATION PUMP STATION
DISCHARGE PIPING ARRANGEMENT
SCALE: 1/4"=1'-0"




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




SECTION E
SCALE: 1/4"=1'-0"
(35/86) (88)

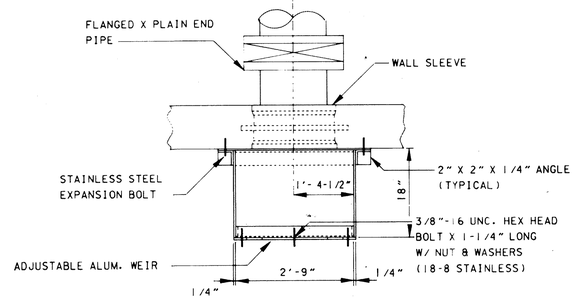



NOTE,

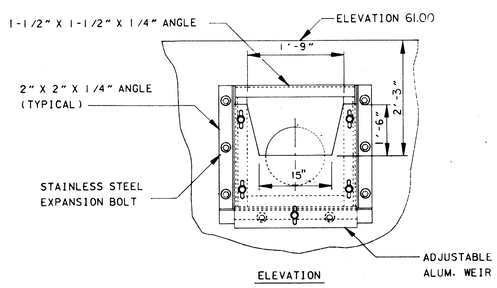
ALL ITEMS SHOWN (EXCEPT AS NOTED) ARE TO BE FURNISHED BY THE FILTER MFR. FOR INSTALLATION BY THE CONTRACTOR AND DO NOT NECESSARILY REFLECT THE ACTUAL QUANTITY REQUIRED FOR ANY PARTICULAR INSTALLATION.

## BACKWASH TROUGH INSTALLATION DETAIL

SCALE, NONE




PLAN




ELEVATION

## WEIR BOX INSTALLATION DETAIL

SCALE, NONE

NOTES,

1.) QUANTITY, SIZE & SPACING OF STAINLESS STEEL EXPANSION BOLTS TO BE DETER-MINED AT TIME OF APPROVAL

2.) CONTRACTOR MUST PROVIDE A SMOOTH & LEVEL SURFACE FOR GASKETS

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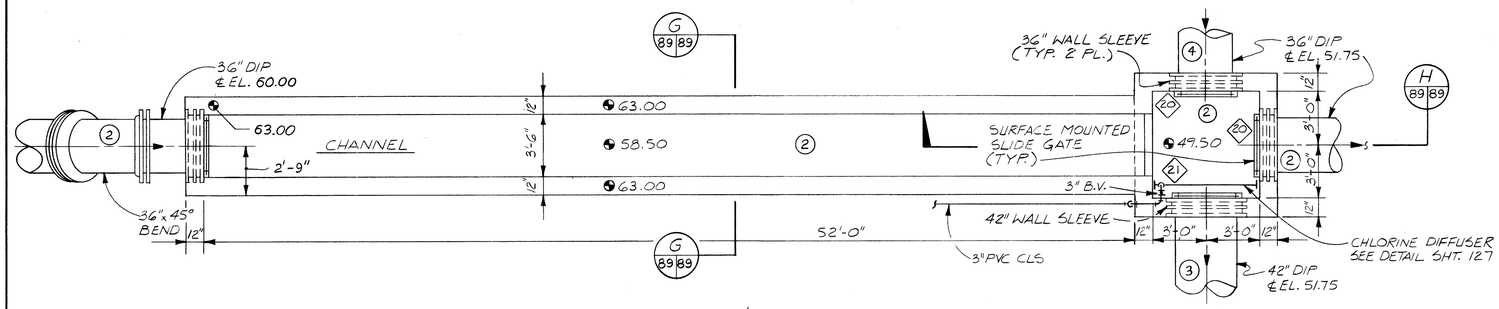
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTERS-**
**MECHANICAL SECTIONS & DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 88 OF 166

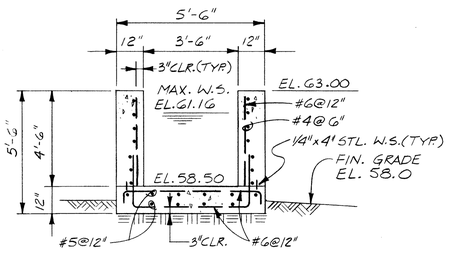
PROJ. NO. 87054-2
FILE NO. 13061

92016



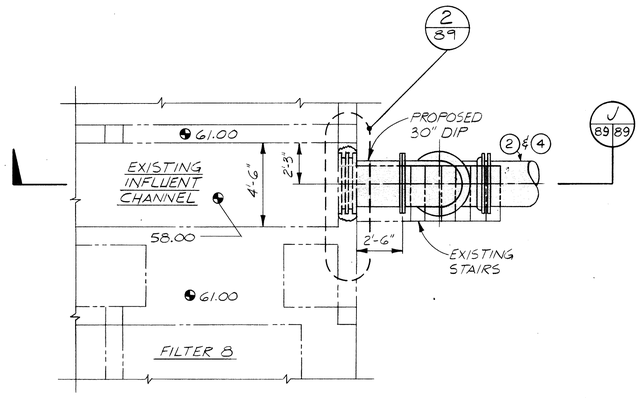

PLAN- CLARIFIER EFFLUENT CHANNEL W/ JUNCTION BOX

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



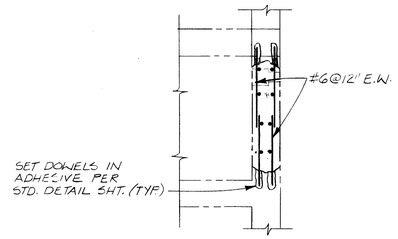

SECTION G 89|89

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




PLAN- UPPER LEVEL

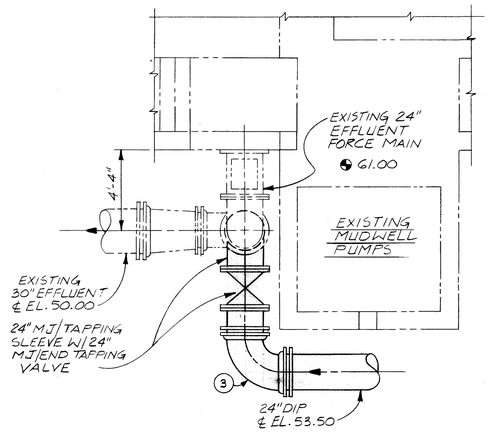
SCALE: 1/4" = 1'-0"




NOTE: DETAIL PROVIDED TO SHOW REPAIR OF CHANNEL WALL AFTER TEMP. 30" DIP IS REMOVED.

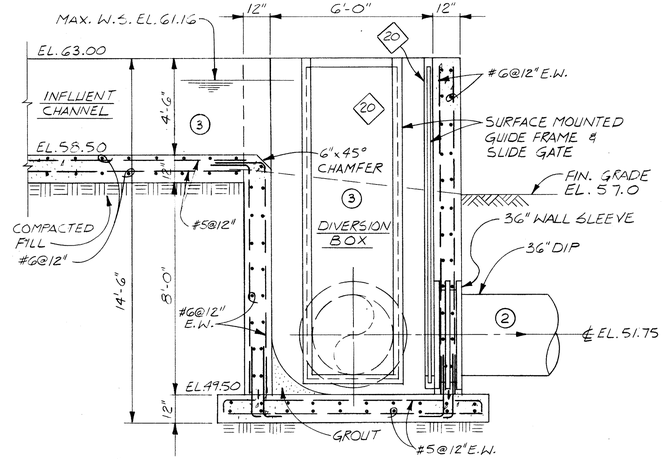
DETAIL 2 89

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




24" TAP TO EXISTING 24" EFFLUENT FORCE MAIN

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




SECTION H 89|89

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

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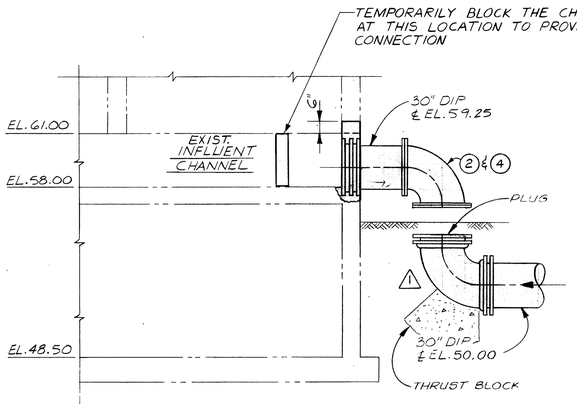
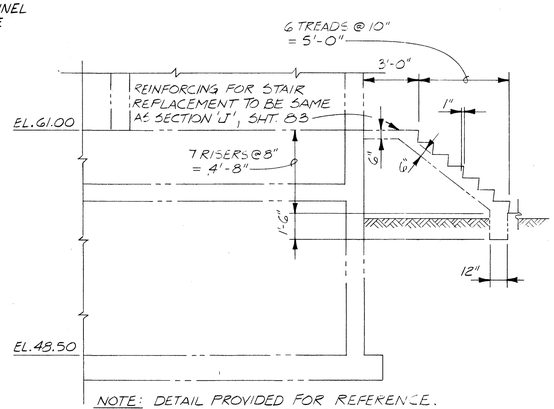



SECTION J 89|89

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

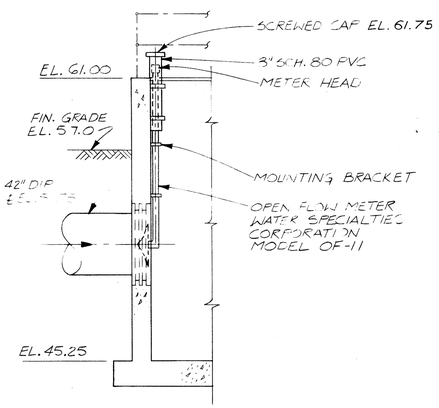



NOTE: DETAIL PROVIDED FOR REFERENCE. EXIST. STAIR TO BE REMOVED FOR TEMPORARY PIPE CONN. & REPLACED AFTER PROPOSED FILTERS ARE IN OPERATION.

DETAIL - EXISTING STAIRS

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

TEMPORARY INFLUENT PIPING DURING CONSTRUCTION OF NEW EFFLUENT FILTERS




SECTION F 86|89

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

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LEGEND

EXISTING

PROPOSED

(2) PHASE 2 CONSTRUCTION ITEM

(3) PHASE 3 CONSTRUCTION ITEM

(4) PHASE 4 CONSTRUCTION ITEM

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

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|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

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DESIGNED YCL | DRAWN KTB | CHECKED GRS

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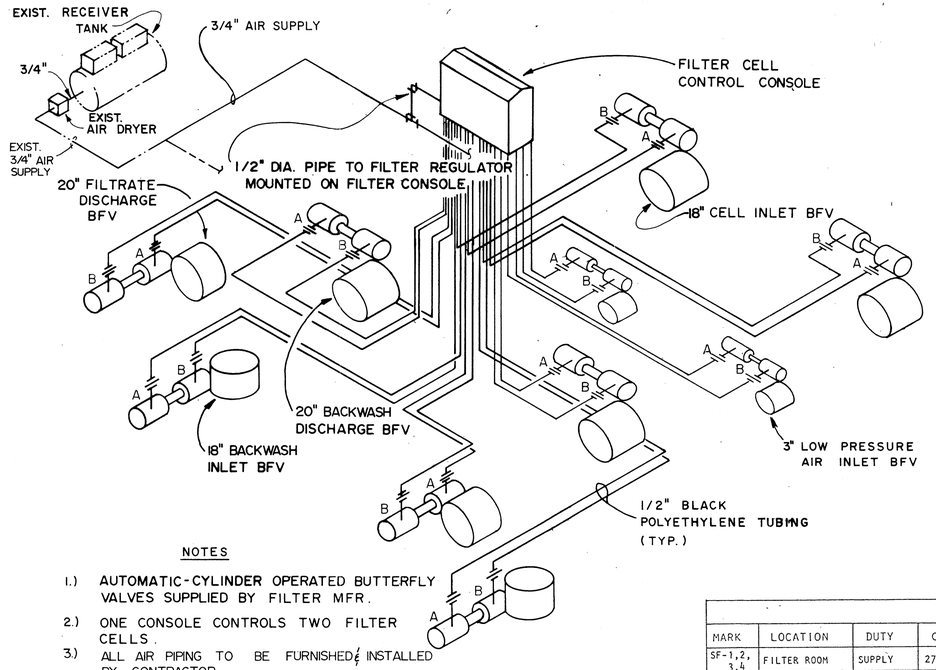
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EFFLUENT FILTER-
MECHANICAL SECTIONS & DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 89 OF 166

PROJ. NO. 87054-2 | FILE NO. 13062

92016



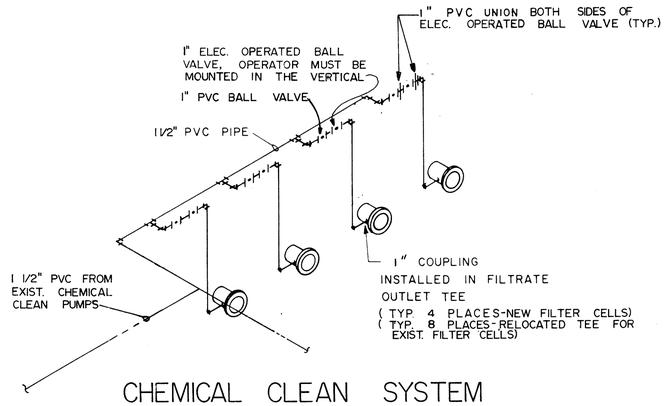

NOTES

1.) AUTOMATIC-CYLINDER OPERATED BUTTERFLY VALVES SUPPLIED BY FILTER MFR.

2.) ONE CONSOLE CONTROLS TWO FILTER CELLS.

3.) ALL AIR PIPING TO BE FURNISHED & INSTALLED BY CONTRACTOR.

## HIGH PRESSURE AIR SYSTEM

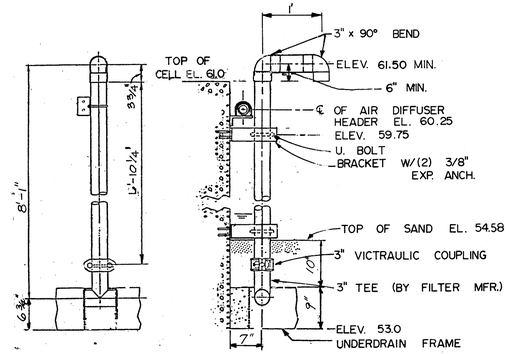



## CHEMICAL CLEAN SYSTEM

FAN SCHEDULE

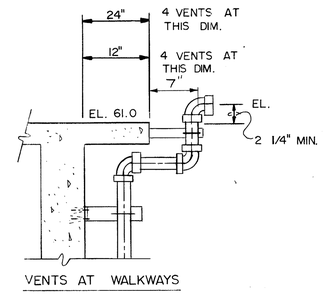
| MARK | LOCATION | DUTY | CFM | RPM | S.P." | H.P. | DRIVE | VOLT | MFG. MODEL NO. | SONES | CONTROL | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF-1,2, 3,4 | FILTER ROOM | SUPPLY | 2750 | | | 1 | | 230/3 | EXISTING TO BE RELOCATED AND REINSTALLED | | | |
| EF-5,6 | FILTER ROOM | EXHAUST | 5725 | 572 | 3/8" | 3/4 | BD | 240/1 | SWARTWOUT 30FA3B | - | WALL SWITCH BY ELEC.CON. | PVC COATED WHEEL,PVC BIRD SCREEN, PREWIRED DISC.SW.,8" F5 SERIES E CURB |
| SF-7 | PIPE GALLERY | SUPPLY | 4230 | 1126 | 1/2" | 3/4 | BD | 240/1 | AEROVENT 22TF734VTFBD | - | WALL SWITCH BY ELEC.CON. | F.G. MOTOR COVER,SUPPORT LEG, CURB BASE,SIZE 24 F.G. HOOD ASSEMBLY |
| EF-8 | PIPE GALLERY | EXHAUST | 4163 | 819 | 1/2" | 3/4 | BD | 240/1 | SWARTWOUT 24FA5B | - | WALL SWITCH BY ELEC.CON. | PVC COATED WHEEL, PVC BIRD SCREEN, PREWIRED DISC.SW.,8" F4 SERIES E CURB |
| EF-9 | OPERATING ROOM | EXHAUST | 6087 | 630 | 1/2" | 1 | BD | 240/1 | SWARTWOUT 30FA4B | - | WALL SWITCH BY ELEC.CON. | PVC COATED WHEEL, PVC BIRD SCREEN, PREWIRED DISC.SW.,8" F5 SERIES E CURB |
| SF-10 | PUMP ROOM | SUPPLY | 5650 | 1196 | 1" | 1-1/2 | BD | 230/3 | AEROVENT 25TF734VTFBD | - | WALL SWITCH BY ELEC.CON. | F.G. MOTOR COVER, SUPPORT LEG, CURB BASE, SIZE 30 F.G. HOOD ASSEMBLY |
| | | | | | | | | | | | | |

NOTES:
1. MOTORS FOR FANS #5-#10 SHALL BE TOTALLY ENCLOSED FAN COOLED.
2. FURNISH AND INSTALL EF-5, 6, 9 30" x 30" FRP INLET DUCT W/30" x 30" 3/4" #16 S.S. TYPE 304 STANDARD EXPANDED METAL GRILLE.
3. FURNISH AND INSTALL SF-7, 10 14 GA. TYPE 304 S.S. ADAPTOR PLATE AND S.S. BIRD SCREEN FOR HOOD ASSEMBLY, LOUVERS AND DAMPERS 12 GA. ALUMINUM TYPE AC-R CURB W/SOLID RETAINER.
4. FURNISH AND INSTALL EF-8 24" x 24" FRP INLET DUCT W/24" x 24" 3/4" #16 S.S. TYPE 304 STANDARD EXPANDED METAL GRILLE.



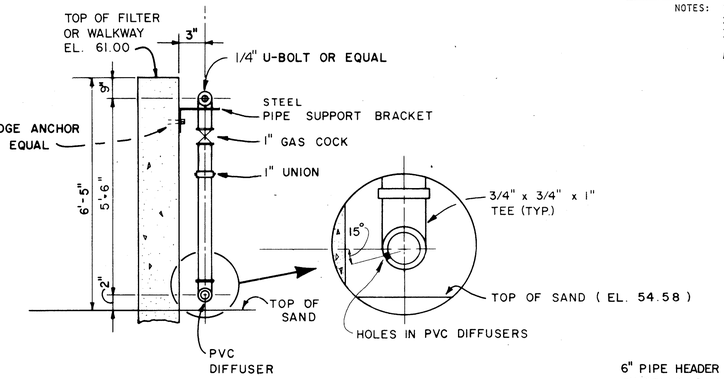

VENT AT WALL

NOTE:
TOTAL OF 16 VENTS REQ'D.

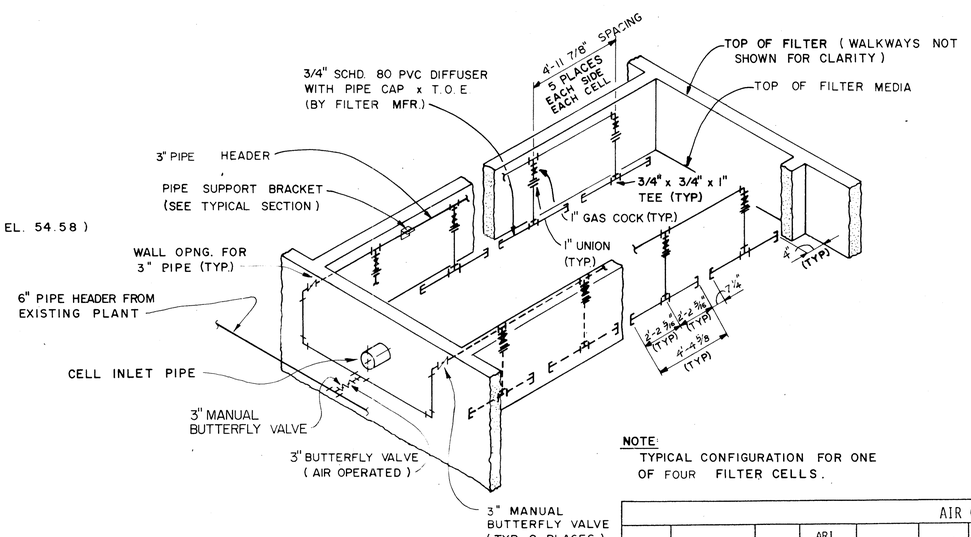



VENTS AT WALKWAYS

## TYPICAL AIR VENTS




## TYPICAL SECTION




ISOMETRIC DIAGRAM

## LOW PRESSURE AIR SYSTEM

NOTE:
TYPICAL CONFIGURATION FOR ONE OF FOUR FILTER CELLS.

AIR CONDITIONING EQUIPMENT SCHEDULE

| UNIT# | TYPE | SEER | ARI COOLING BTU/HR | KW HEAT 230/1/60 | CFM/ S.P." | O.A. CFM | COMP. F.L.A. 230/1/60 | IND. FAN HP | OUTD. FAN HP | COND. LINE | SUCT. LINE | LIQ. LINE | FILTER HIGH VELOCITY | MODEL NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SPLIT COOLING | 8.6 | 36,500 | - | 700/- | - | 20.0 | .7 | .9a,.7a | 1" | 3/4" | 1/2" | PERMANENT | MITSUBISHI PC36BKUS,PU36G6US |

NOTE: 1. UNIT #1 - CONDENSATE LINE SHALL BE TRAPPED AND PITCHED 1/8"/FT.
2. SUCTION LINE AND CONDENSATE LINE SHALL BE INSULATED WITH 1/2" ARMAFLEX TYPE AP INSULATION WITH JOINTS AND SEAMS SEALED WITH ADHESIVE. EXPOSED INSULATION SHALL BE PAINTED WITH TWO (2) COATS OF WHITE EXTERIOR ARMAFLEX PAINT.

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R RELEASED FOR CONSTRUCTION DESTROY PREVIOUS BLUE PRINTS
H PERMITTING ONLY
A APPROVAL
C CHECK PRINT
RD RECORD DRAWING

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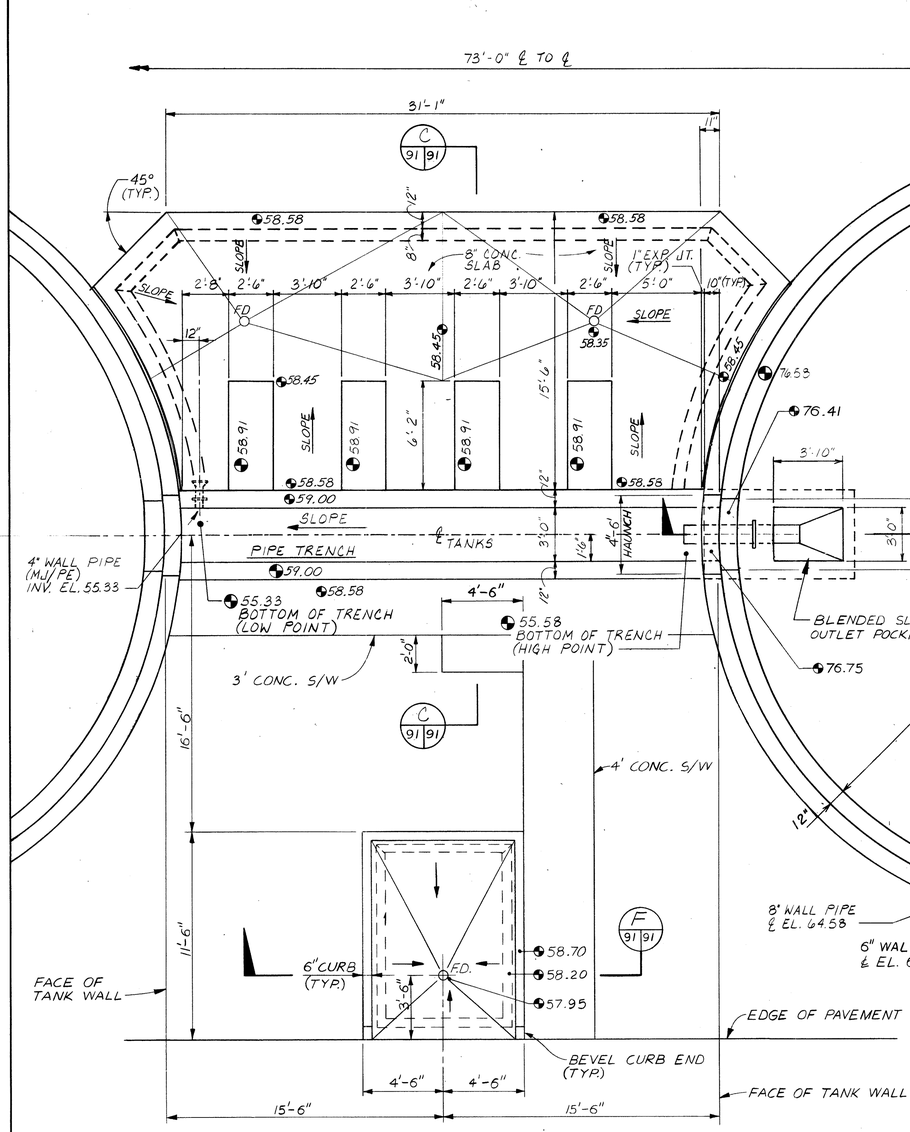
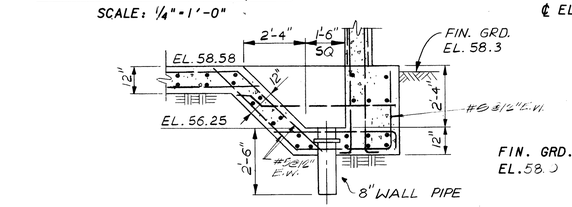
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EFFLUENT FILTERS-
MECHANICAL DETAILS
CLEARWATER, FLORIDA

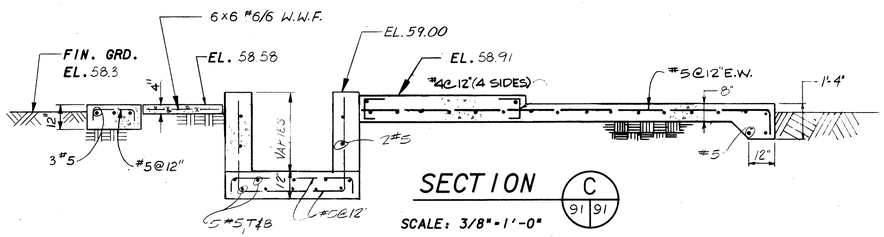
DATE: OCT. 1988
SCALE: NONE
SHEET NO. 90 OF 166

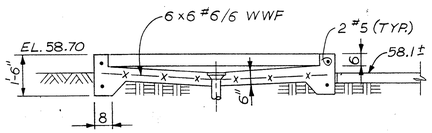
PROJ. NO. 87054-2
FILE NO. 13063

92016



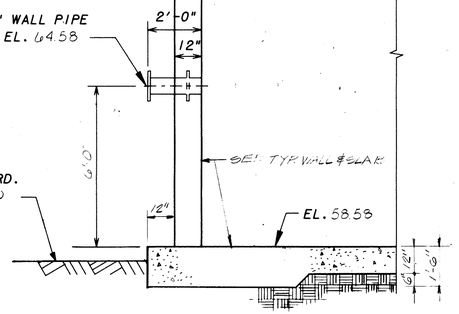



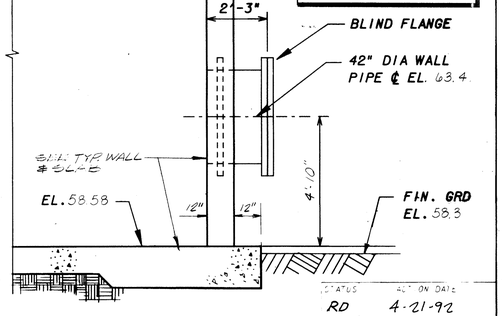







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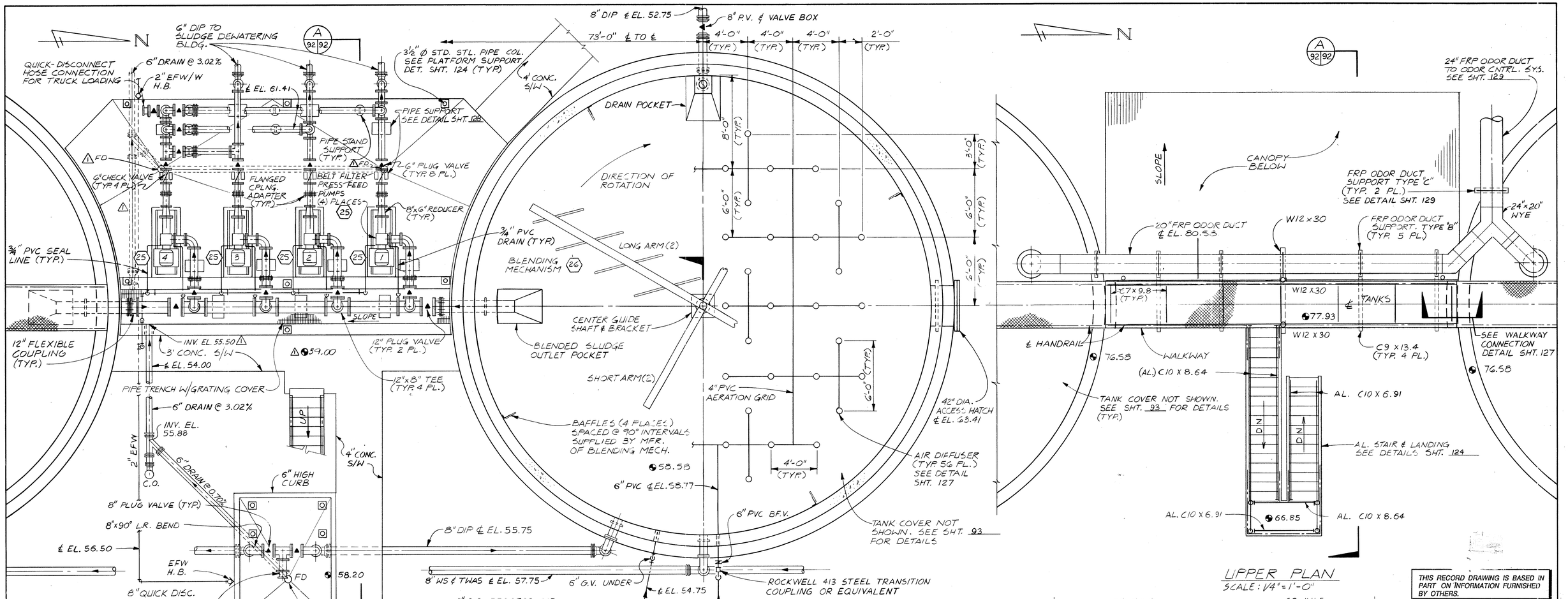
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE STORAGE & BLENDING TANKS-
STRUCTURAL PLAN & SECTIONS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 91 OF 166
PROJ. NO. 87054-2
FILE NO. 13064

92016




## LOWER PLAN
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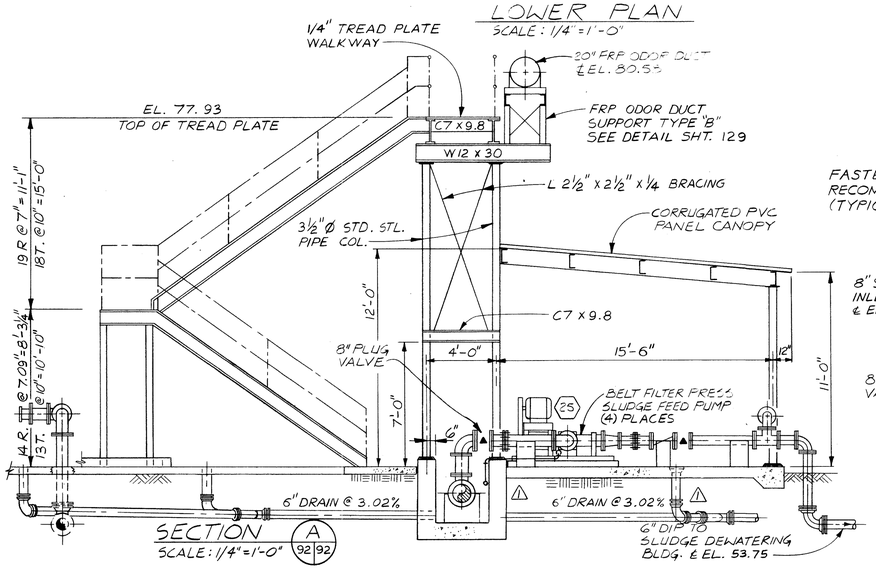


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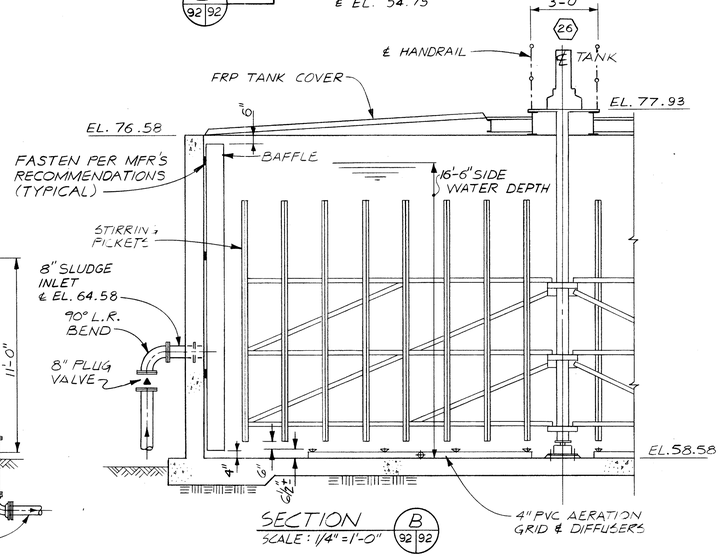
A 92/92

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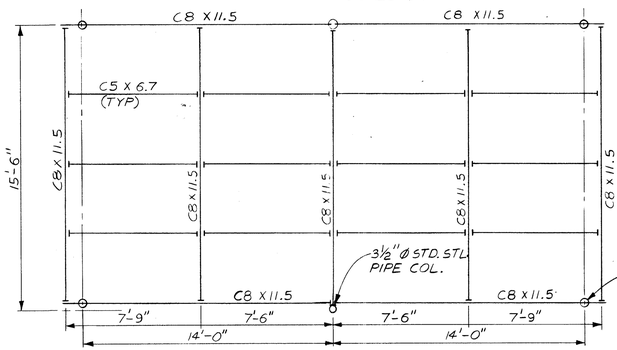
B 92/92

## UPPER PLAN
SCALE: 1/4" = 1'-0"




## CANOPY FRAMING PLAN
SCALE: 1/4" = 1'-0"

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ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/ OR UNDERGROUND SHALL BE 304 STAINLESS STEEL, SCHEDULE 5. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

NOTE:
FOR FRP ODOR DUCT SUPPORT DETAILS SEE SHEET 129

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
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**NORTHEAST ADVANCED POLLUTION CONTROL FACILITY**
**SLUDGE STORAGE & BLENDING TANKS-**
**MECHANICAL PLANS & SECTIONS**
**CLEARWATER, FLORIDA**

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 92 OF 166
PROJ. NO. 87054-2
FILE NO. 13065

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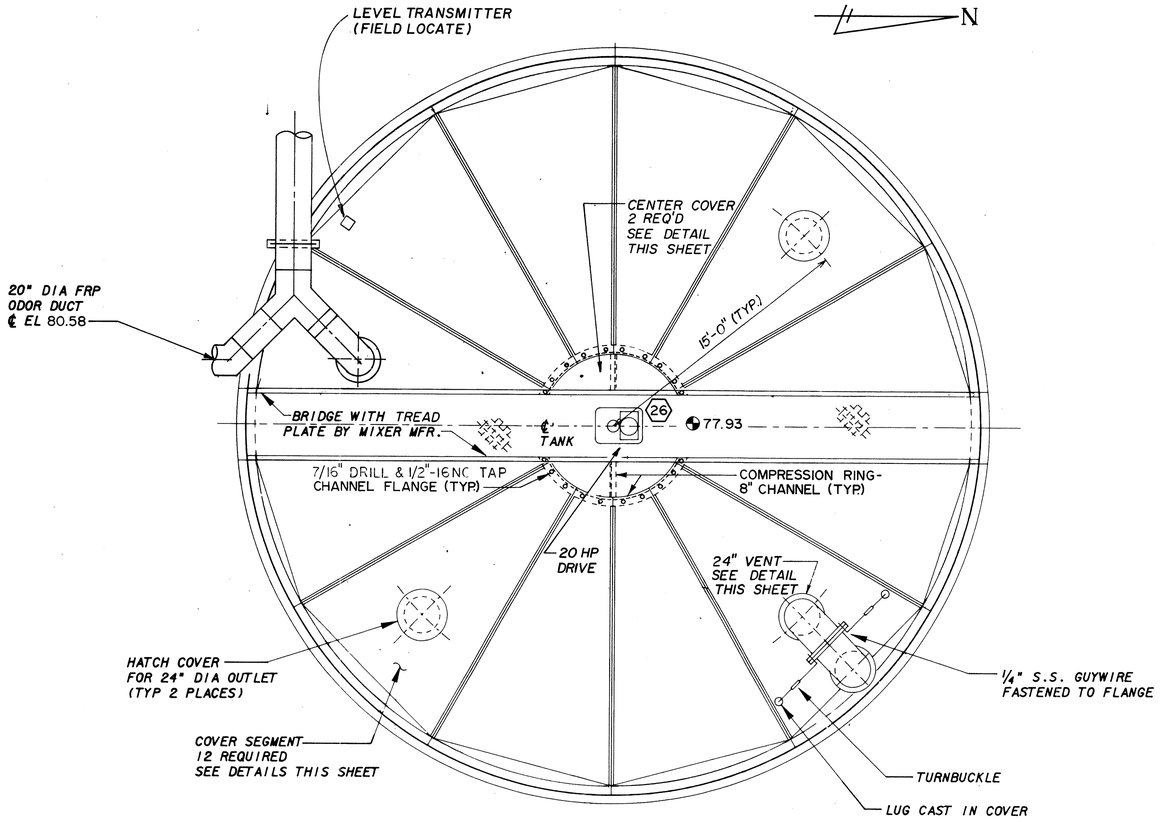
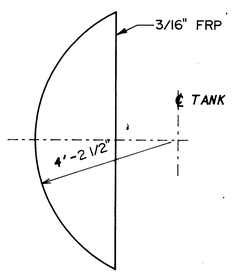



NOTE:
NORTH TANK SHOWN
SOUTH TANK OPPOSITE HAND

## FIBERGLASS COVER - PLAN

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




## CENTER COVER

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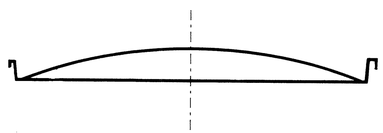

## SECTION A 93|93

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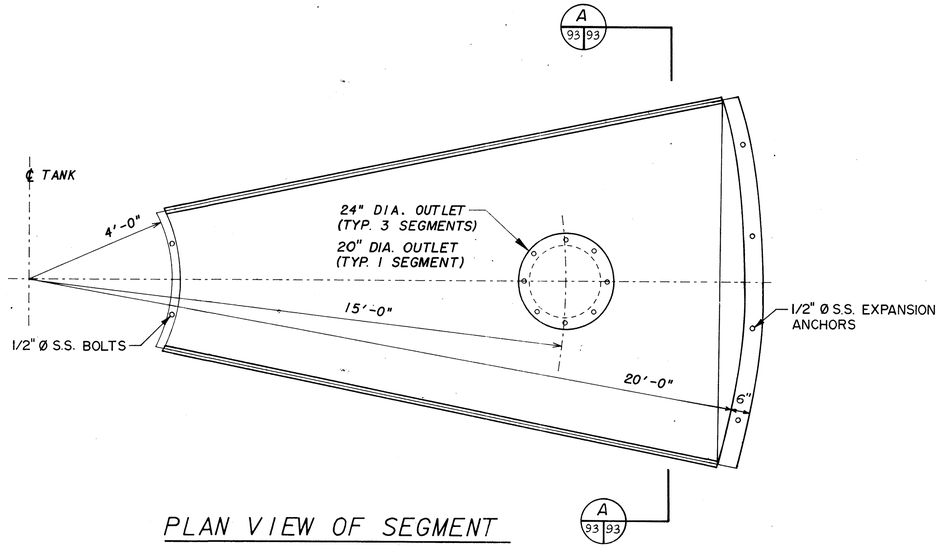
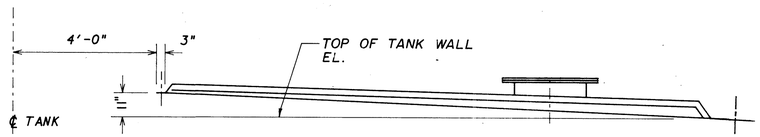



## PLAN VIEW OF SEGMENT

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

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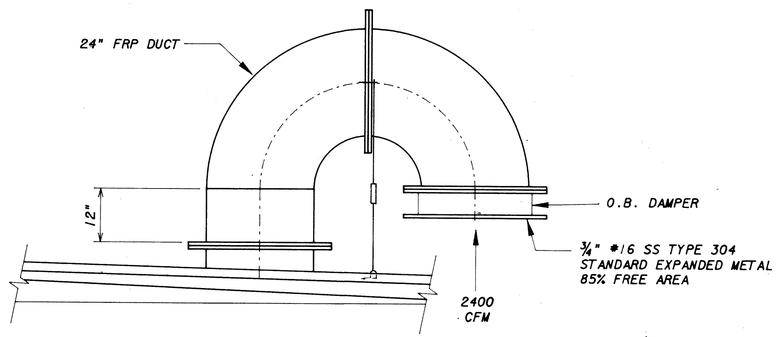


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**SLUDGE STORAGE & BLENDING TANKS-**
**COVER DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 93 OF 166
PROJ. NO. 87054-2
FILE NO. 13066

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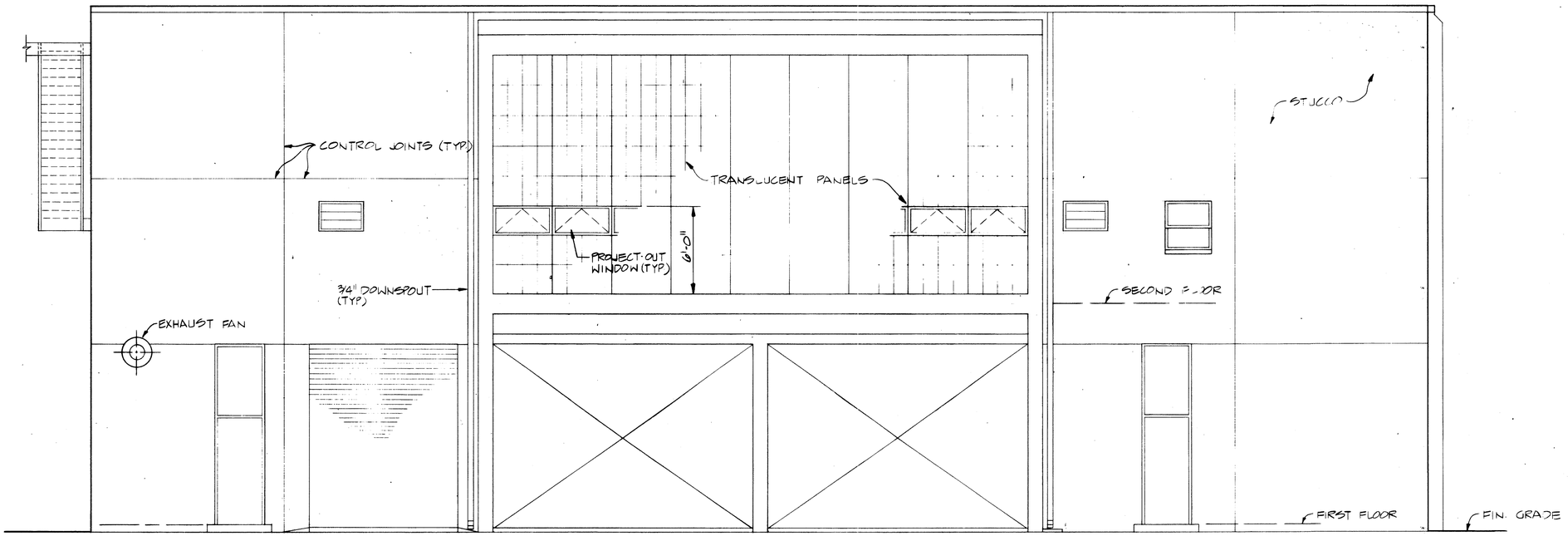
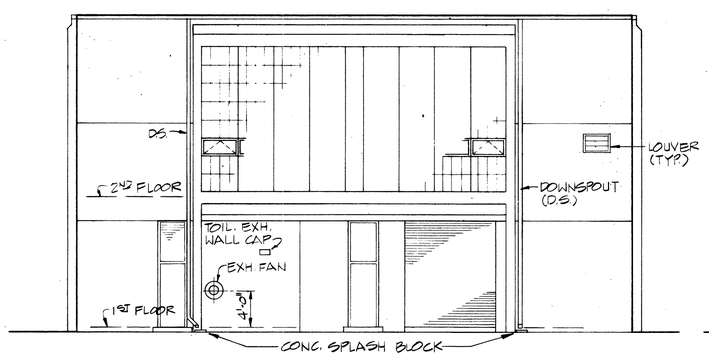



## NORTH ELEVATION
SCALE: 1/4"=1'-0"

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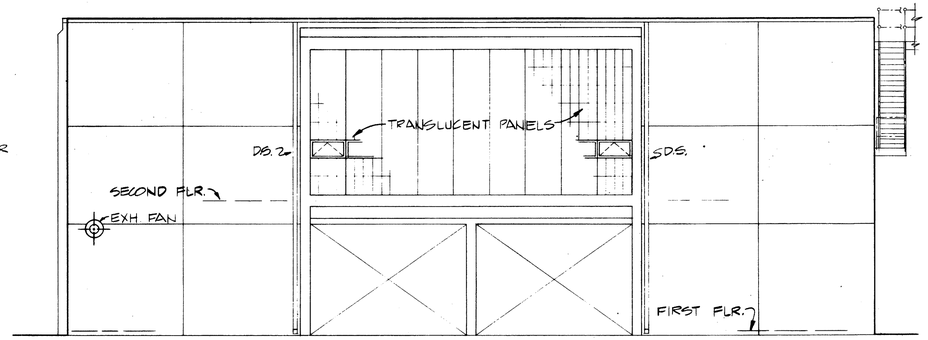


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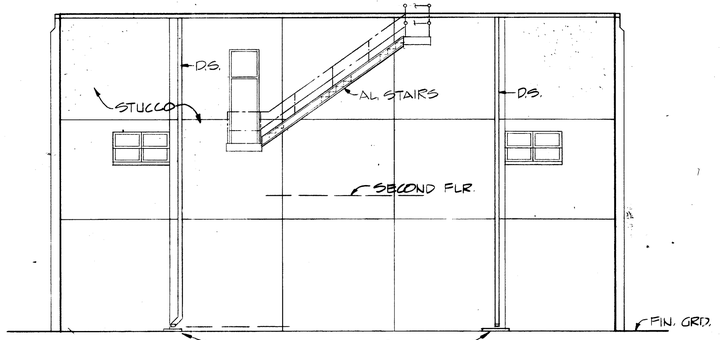


## EAST ELEVATION
SCALE: 1/8"=1'-0"

RECORD DRAWING

*Associated Architect*
*CRAIG J. GEHLERT P.A.*
*Daytona Beach, Fla.*

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| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

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DRAWN BVB
CHECKED CJG

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*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SLUDGE DEWATERING BUILDING-**
**ARCHITECTURAL ELEVATIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 94 OF 166
DRG. NO. 87054-2
FILE NO. 13067

92016

| FINISH SCHEDULE | | | | | |
|---|---|---|---|---|---|
| MARK | FLOOR | BASE | WAINSCOT | WALLS (2) | CEILING |
| 1 | SYSTEM M-3 | VINYL | (2) | A-2 | CONC. PTD. |
| 2 | | NONE | NONE | PT'D. | SUSP. |
| | | | | | |
| | | | | | |

FLOOR | BASE | WAINSCOT | WALLS | CEILING | CEILING HEIGHT

NOT USED IF ALL WALLS ARE THE SAME: EAST, SOUTH, WEST

SCHEDULE AS SHOWN IN EACH ROOM.

NOTE:
CMU & CONC WALLS SHALL HAVE STUCCO ON EXTERIOR OF BUILDING & HARDCOAT PLASTER ON INTERIOR.

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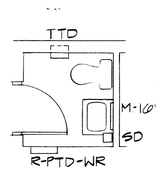


## ACCESSORY LAYOUT

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

ACCESSORY LEGEND

| | |
|---|---|
| M | MIRROR |
| R-PTD-WR | RECESSED PAPER TOWEL DISPENSER W/ WASTE RECEPTACLE |
| SD | SOAP DISPENSER |
| TTD | TOILET TISSUE DISP'R |
| M-S-T-C-S | MULTIFUNCTIONAL UNIT (MIRROR-SHELF-PTD-CUPS-SD) |
| PTD | PAPER TOWEL DISPENCER |

## FIRST FLOOR PLAN

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

SIMILAR TO (A 9597)

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
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| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 3 | 7-25-91 | RECORD DRAWING | WLS |
| 2 | 5-31-89 | REVISED PER ADDENDUM #2 | SGO |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | KRM |

DESIGNED: ROV | DRAWN: BVB | CHECKED: CJG

SUBMITTED: BRILEY, WILD & ASSOCIATES

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**NORTHEAST ADVANCED POLLUTION CONTROL FACILITY**
**SLUDGE DEWATERING BUILDING-**
**ARCHITECTURAL FIRST FLOOR PLAN**
**CLEARWATER, FLORIDA**

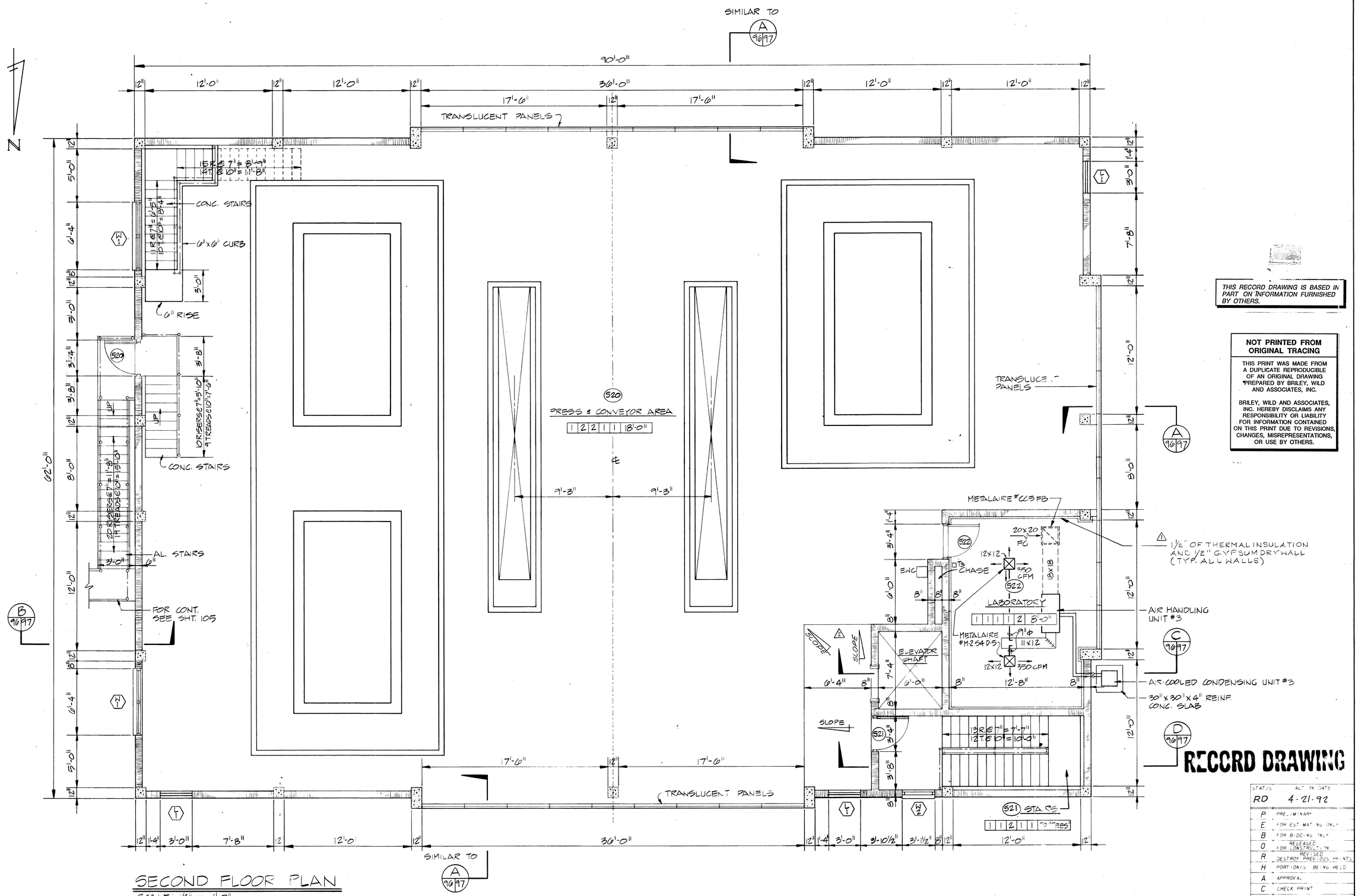
DATE OCT. 1988 | SCALE: 1/4"=1'-0" | SHEET NO. 95 OF 166

PROJ. NO. 87054-2 | FILE NO. 13068

92016

SECOND FLOOR PLAN

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

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| RD | 4-21-92 |

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|---|---|
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| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTIONS BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 7/25/91 | RECORD DRAWING | WLS |
| 1 | 5/31/89 | REVISED PER ADDENDUM #1 | KFM |

DESIGNED ROV | DRAWN BVB | CHECKED CJG

SUBMITTED: BRILEY, WILD & ASSOCIATES

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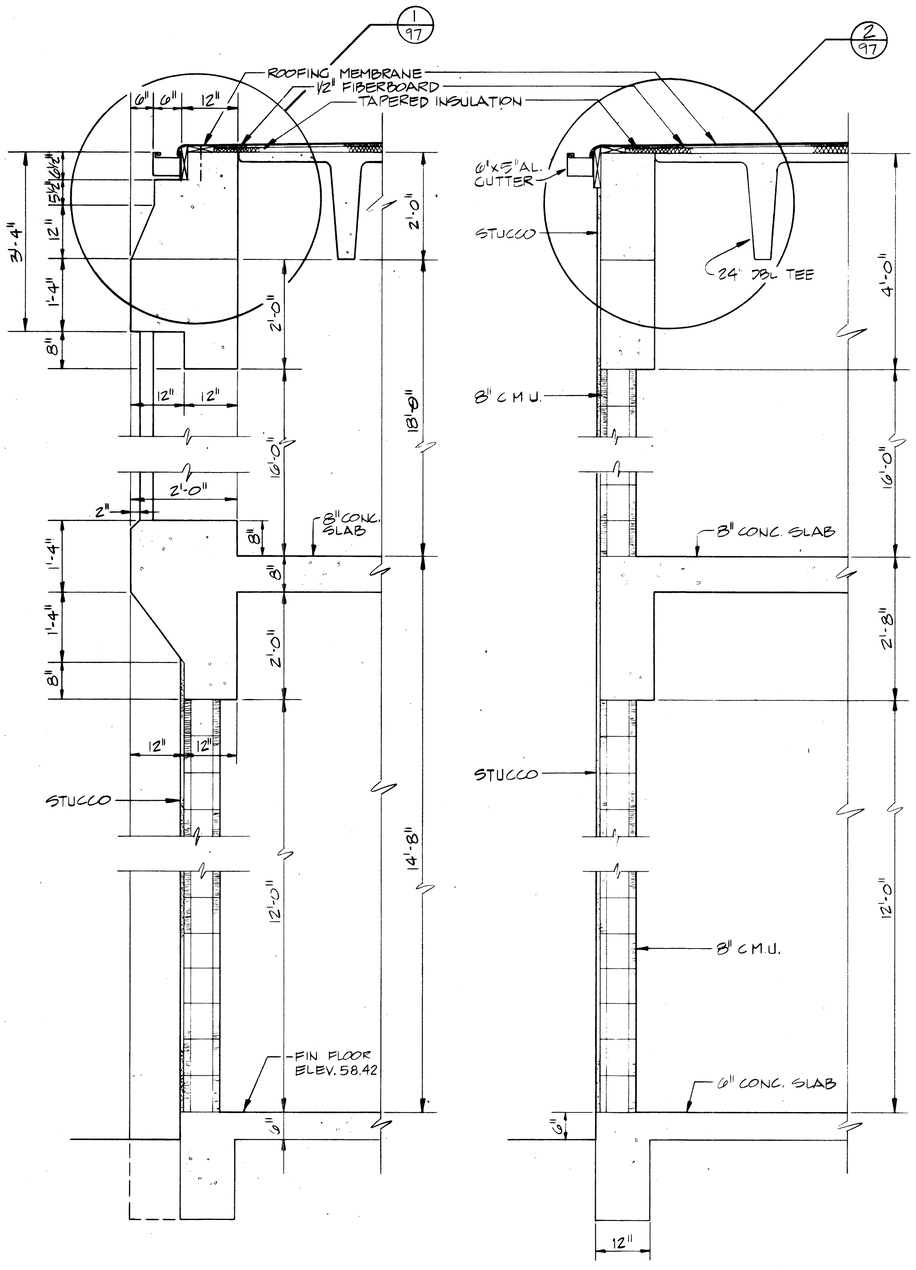
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE DEWATERING BUILDING-
ARCHITECTURAL SECOND FLOOR PLAN
CLEARWATER, FLORIDA

DATE OCT. 1988
SCALE 1/4" = 1'-0"
SHEET NO. 96 OF 166

PROJ. NO. 87054-2
FILE NO. 13069

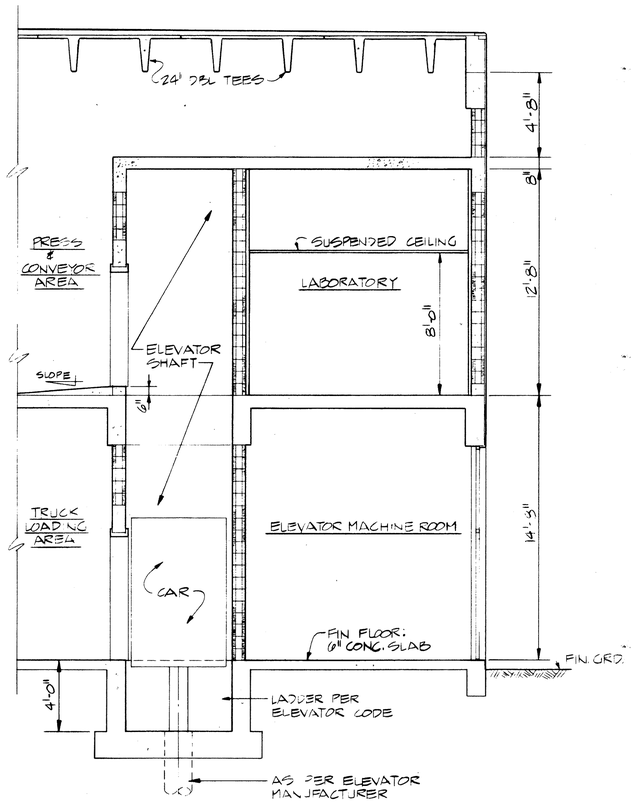
92016



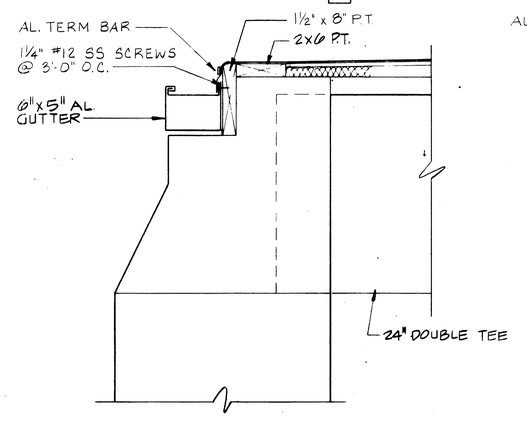

SECTION A
SCALE: 3/4" = 1'-0" 95 97 96

SECTION B
SCALE: 3/4" = 1'-0" 95 97 96

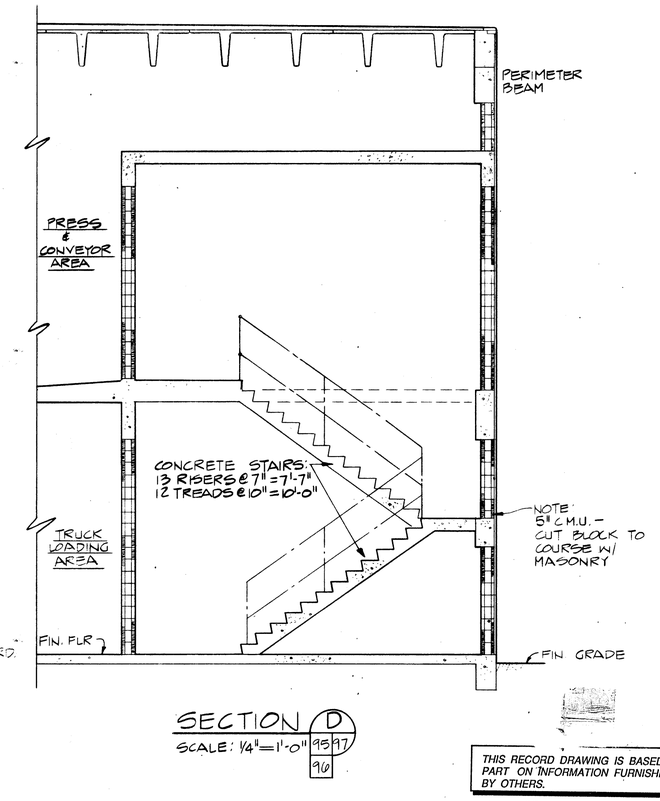
*Associated Architect*
*CRAIG J. GEHLERT P.A.*
*Daytona Beach, Fla.*



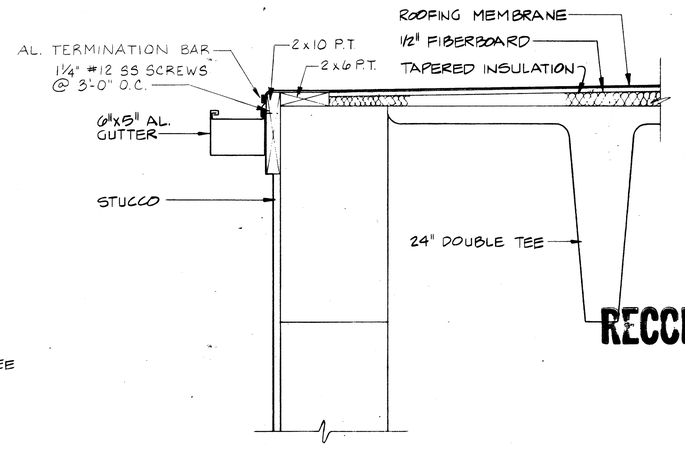

SECTION C
SCALE: 1/4" = 1'-0" 95 97 96




DETAIL 1
SCALE: 1½" = 1'-0" 97




SECTION D
SCALE: 1/4" = 1'-0" 95 97 96




DETAIL 2
SCALE: 1½" = 1'-0" 97

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| R | RELEASED AS RECORD |
| H | NOT TO BE USED |
| A | APPROVED |
| C | CHECK PRINT |
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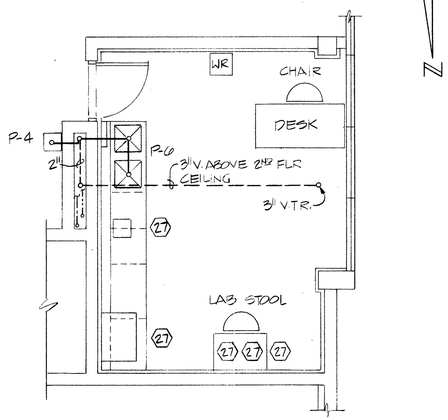
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SLUDGE DEWATERING BUILDING-**
**ARCHITECTURAL SECTIONS & DETAILS**
CLEARWATER, FLORIDA

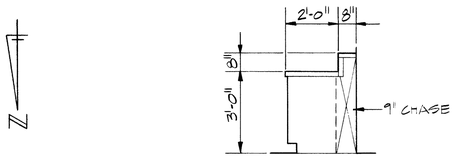
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 97 OF 166
DWG. NO. 87054-2
FILE NO. 13070

92016



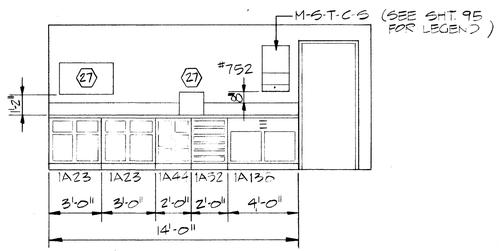

LAB FLOOR PLAN

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




TYP. SECTION

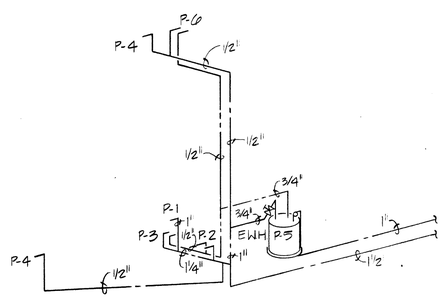
SCALE: 3/8" = 1'-0"




INTERIOR ELEVATION @ EAST WALL

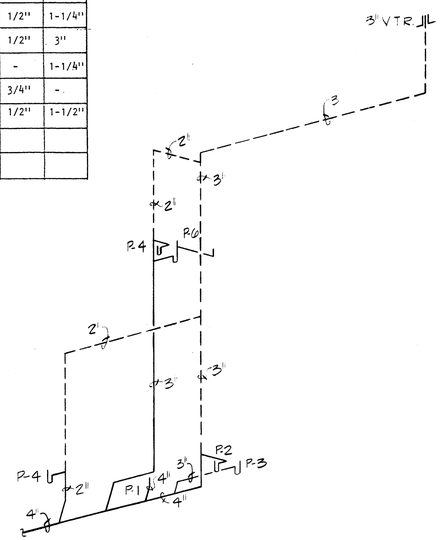
SCALE: 1/4" = 1'-0"

| PLUMBING FIXTURE AND EQUIPMENT SCHEDULE | | | | |
|---|---|---|---|---|
| MARK | DESCRIPTION | C.W. | H.W. | WASTE |
| P-1 | WATER CLOSET A-S TRIBOR 2342.012; ELONGATED; CHURCH 295C S.P. WHITE OPEN FRONT SEAT; SLOAN ROYAL 110YB FLUSH VALVE | 1" | - | 4" |
| P-2 | LAVATORY A-S NEW LUCERNE 0355.012; V.C.; 20x18; DELTA 523HDF SINGLE LEVER FAUCET; GRID STRAINER; CR1912A SUPPLIES & STOPS | 1/2" | 1/2" | 1-1/4" |
| P-3 | MOP SERVICE BASIN FIAT TSB-3003; 36x24x12; TERRAZO; 830-AA FAUCET; 832-AA HOSE & BRACKET; 889-CC MOP HANGER; S.S. STRAINER | 1/2" | 1/2" | 3" |
| P-4 | ELECTRIC WATER COOLER HALSEY-TAYLOR SCWT-4A; S.S. FINISH; FOOT PEDAL; 2.9a/110V | 1/2" | - | 1-1/4" |
| P-5 | ELEC. WATER HEATER RHEEM 81SX20D; 20 GAL.; 3/8" STOP; 4.5KW; 108V/1Φ; ASME T & P RELIEF VALVE; AUX. PAN; 3YR. TANK WARRANTY | 3/4" | 3/4" | - |
| P-6 | 2 COMP. S.S. SINK ELKAY DLR-3322-10 DEEP; 18 GA. 304 S.S.; DELTA 100HDF-10 SINGLE LEVER FAUCET W/10" SWING SPOUT; LK-335 BASKET STRAINER | 1/2" | 1/2" | 1-1/2" |
| | | | | |
| | | | | |




COLD & HOT WATER RISER

NO SCALE




SANITARY RISER

NO SCALE

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| A | APPROVAL |
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| RD | RECORD DRAWING |

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DESIGNED LNT ROV

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SLUDGE DEWATERING BUILDING-**
**PLUMBING & LAB DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 98 OF 166

PROJ. NO. 87054-2
FILE NO. 13071

92016

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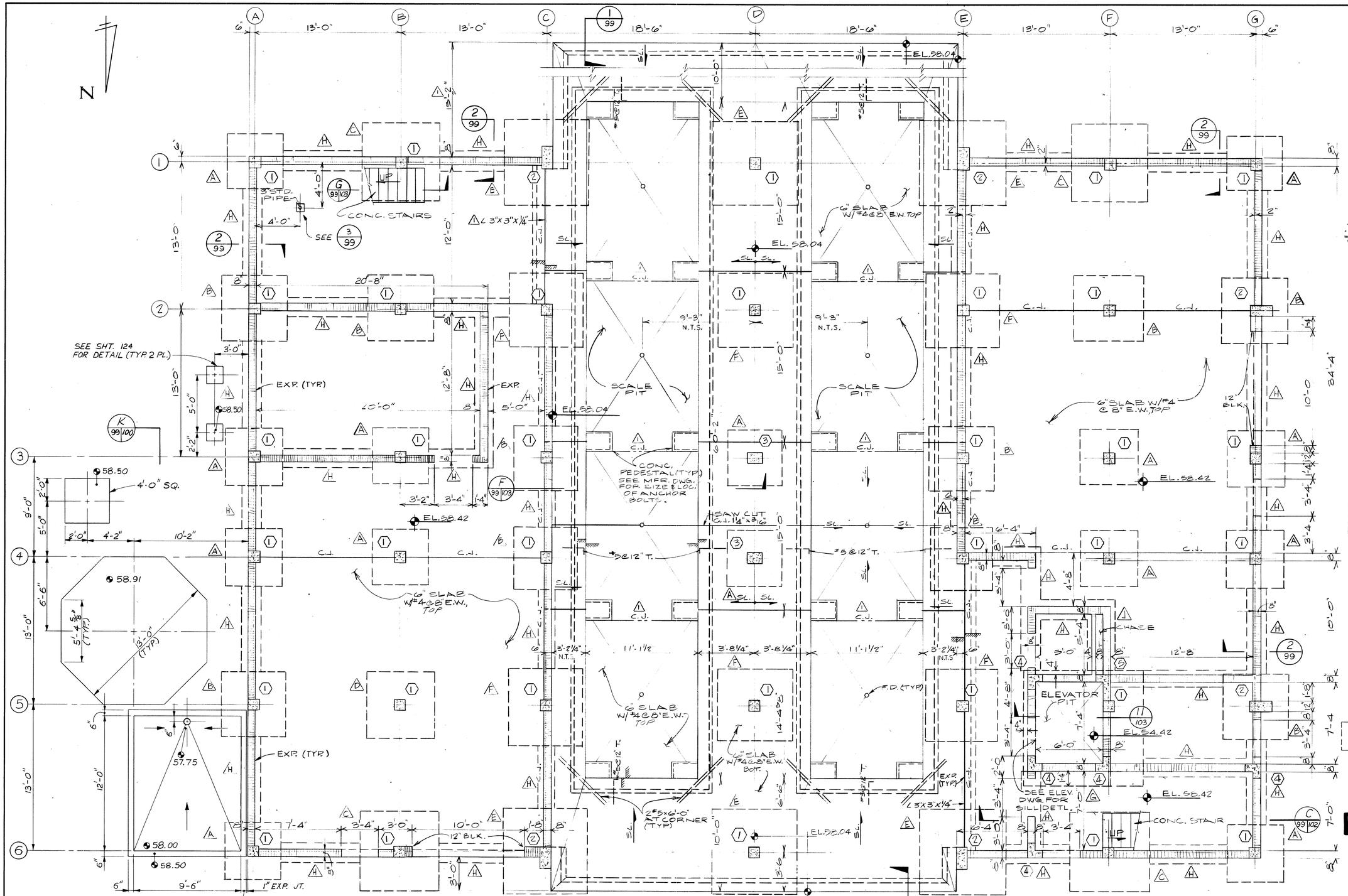


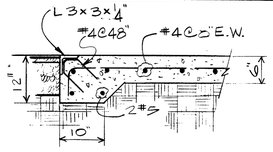


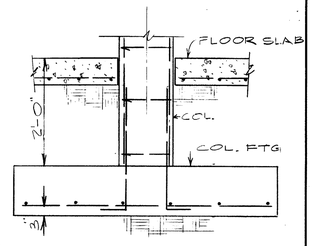


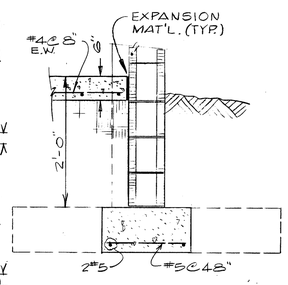


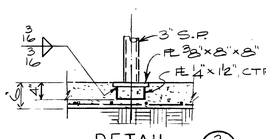


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| 1 | 7-25-91 | RECORD DRAWING | WLS |

DESIGNED JTS | DRAWN RMO | CHECKED SRG

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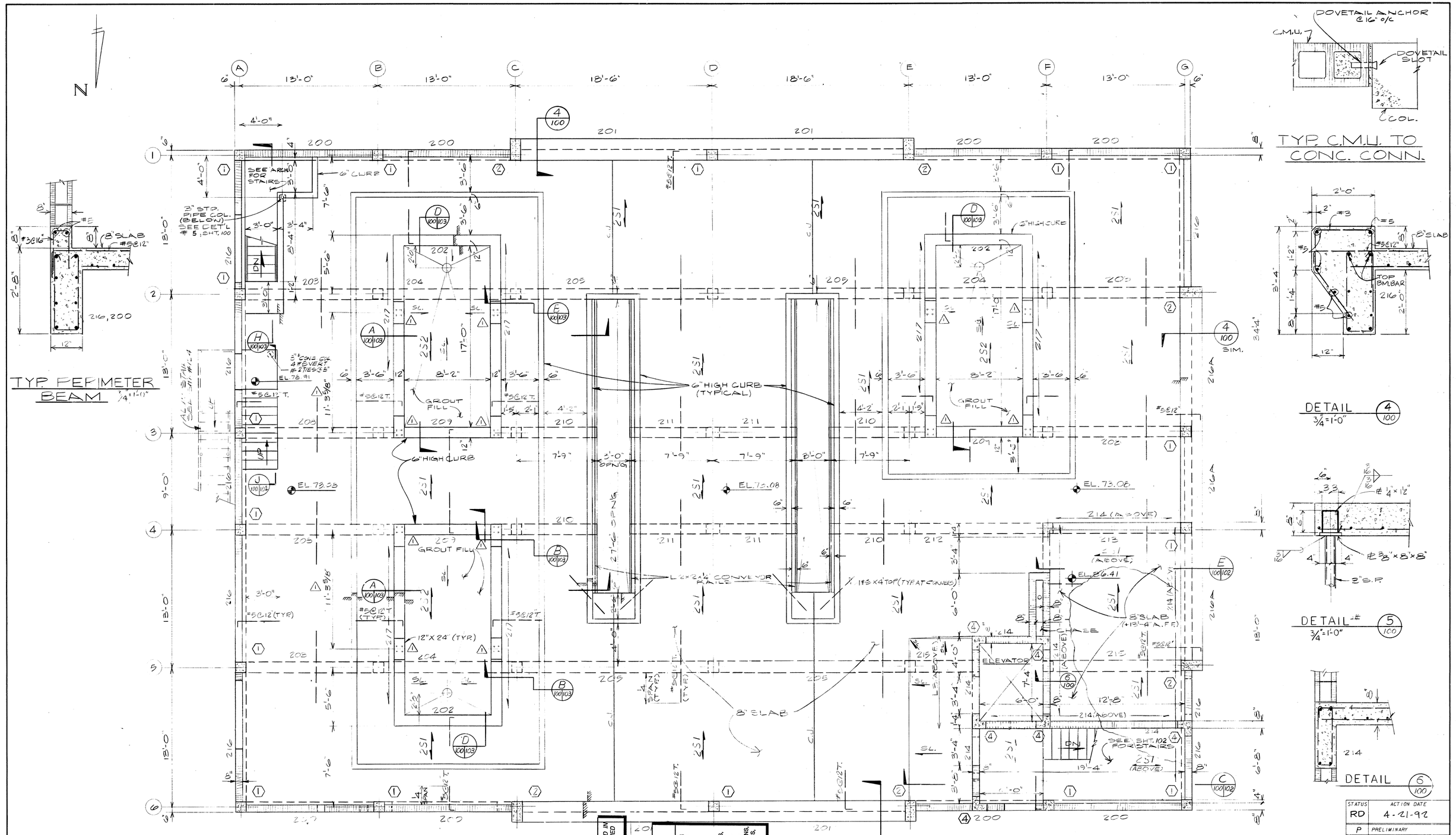
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SLUDGE DEWATERING BUILDING-**
**STRUCTURAL FOUNDATION & FIRST FLOOR PLAN**
CLEARWATER, FLORIDA

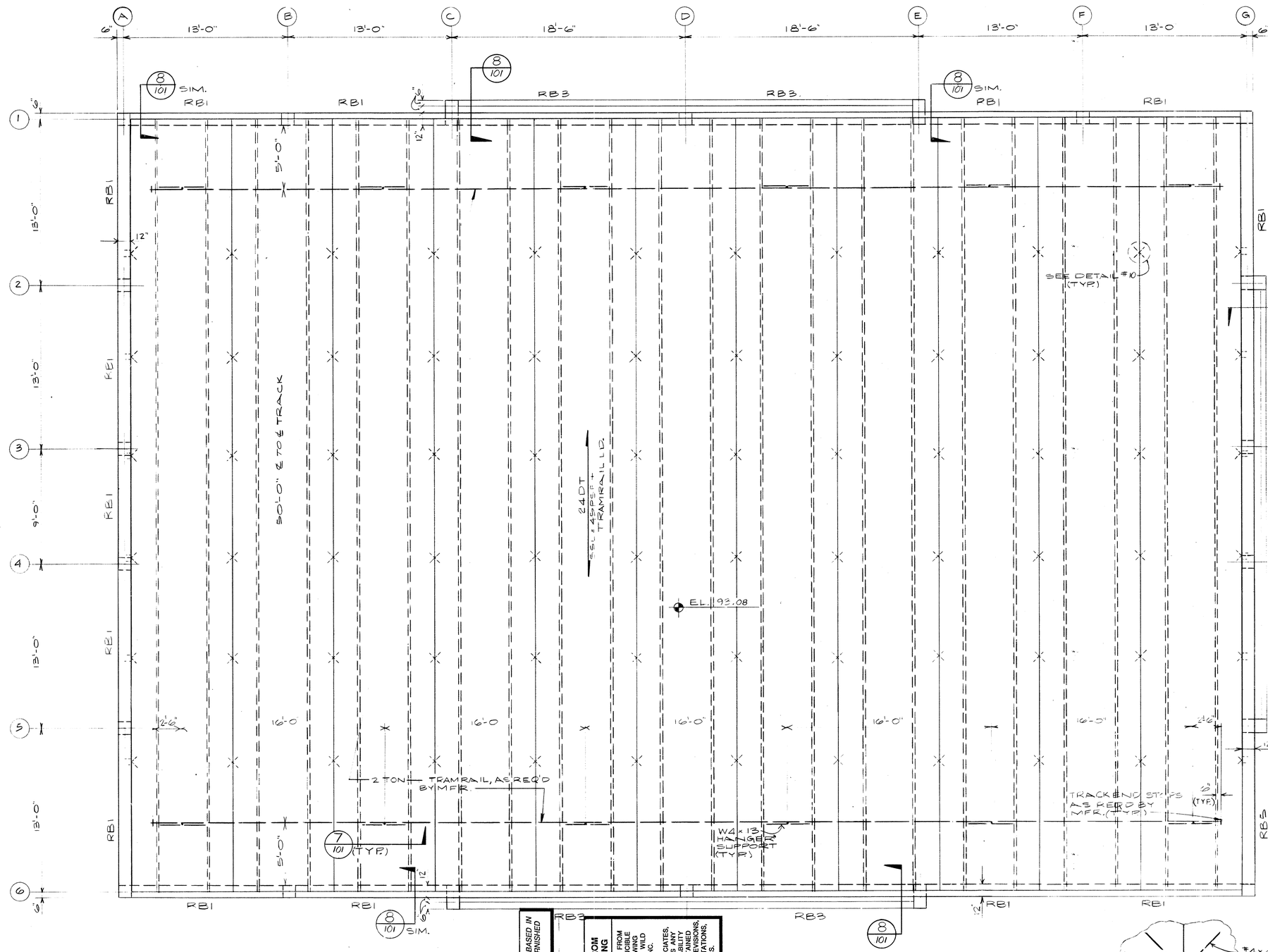
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 99 OF 166

PROJ. NO. 87054-2
FILE NO. 13072

92016


N
A
B
C
D
E
F
G
13'-0"
13'-0"
18'-6"
18'-6"
13'-0"
13'-0"
4'-0"
200
201
SEE ARCH FOR STAIRS
6" CURB
2" STD. PIPE COL. (BELOW) SEE DET'L # 5, SH'T. 100
3'-0"
3'-4"
7'-6"
8'-4"
18'-0"
5'-6"
3'-0"
202
204
205
209
17'-0"
8'-2"
3'-6"
GROUT FILL
6"HIGH CURB (TYPICAL)
6"HIGH CURB
4'-2"
210
211
7'-9"
2'-0" OPNG
8'-0"
L 6x24" CONVEYOR PATE
L 8"x4" TOP (TYP AT CONVEYORS)
EL. 73.08
EL. 73.06
EL. 73.08
214 (ABOVE)
213
212
2'-1"
(ABOVE)
EL. 76.41
8" SLAB (+13'-4" A.F.F.)
ELEVATORS
214 (ABOVE)
12'-8"
214 (ABOVE)
ON
SEE SH'T. 102 FOR STAIRS
19'-4"
251 (ABOVE)
6'-0"
6'-8"
EL. 73.55
EL. 78.91
GROUT FILL
12"X24" (TYP)
8" SLAB
#5@12" T.
#5@12" (TYP)
#5@12 T (TYP)
#5@12 T
#5@12" T.
#5@12" T.
#5@12" T.

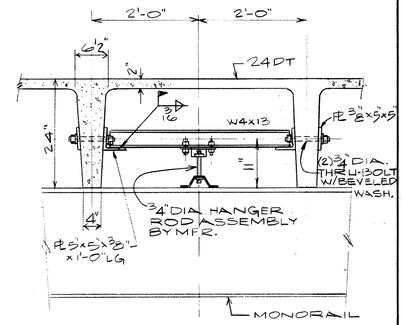
N



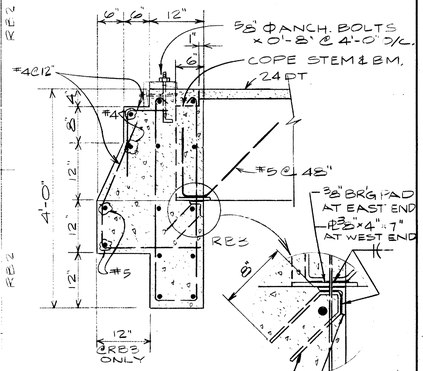

## ROOF FRAMING PLAN

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

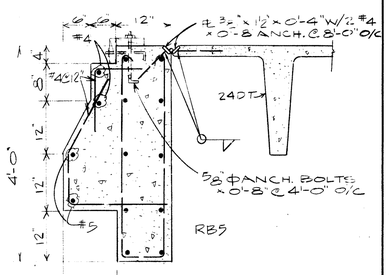
WELD DT END BRG PLATES PER DT. MFR. RECOMMENDATIONS.




DETAIL 7/101
3/4"=1'-0"

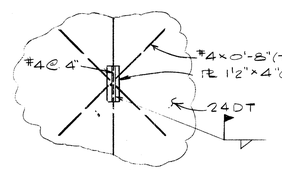



DETAIL 8/101
3/4"=1'-0"




DETAIL 9/101
3/4"=1'-0"

RECORD DRAWING




DETAIL #10

| STATUS | ACTION DATE |
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| | |
|---|---|
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| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| RD | RECORD DRAWING |

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| 1 | 7-25-91 | RECORD DRAWING | WLS |

| | |
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| DESIGNED | JTS |
| DRAWN | RMO |
| CHECKED | SKS |

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*Ormond Beach - Clearwater - Bradenton, Florida*

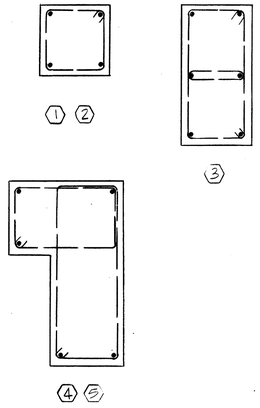
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE DEWATERING BUILDING-
STRUCTURAL ROOF FRAMING PLAN
CLEARWATER, FLORIDA

| | |
|---|---|
| DATE: OCT. 1988 | PROJ. NO. 87054-2 |
| SCALE: AS SHOWN | FILE NO. 13074 |
| SHEET NO. 101 OF 166 | |

92016

## COLUMN SCHEDULE

| MK | SIZE | VERT. | TIES |
|---|---|---|---|
| ① | 12"x12" | 4#7 | #3@10" |
| ② | 12"x24" | 6#8 | 2SETS#3@6 |
| ③ | 12"x16" | 4#8 | #3@10" |
| ④ | 16"x8"x16" | 5#5 | #2@12" |
| ⑤ | 16"x8"x28 | 5#5 | #2@12" |
| | | | |
| | | | |
| | | | |




## ROOF BEAM SCHEDULE

| MK | SIZE | BOT. | TOP | #3 STIRRUPS EACH END | REMARKS |
|---|---|---|---|---|---|
| RB1 | 12x48 | 2#8 | 2#6 | 1@12, @24 | 3#5 EA. SIDE |
| RB2 | 12x48 | 2#8 | 2#6 | 1@12, @24 | 3#5 EA. SIDE |
| RB3 | 12x48 | 2#9 | 2#6 | 1@5, @10" | 3#5 EA. SIDE |
| ⚠ | | | | | |
| RB5 | 12x48 | 2#6 | 2#6 | @12" | 3#5 EA. SIDE |
| ⚠ | | | | | |
| | | | | | |
| | | | | | |

## LINTEL SCHEDULE

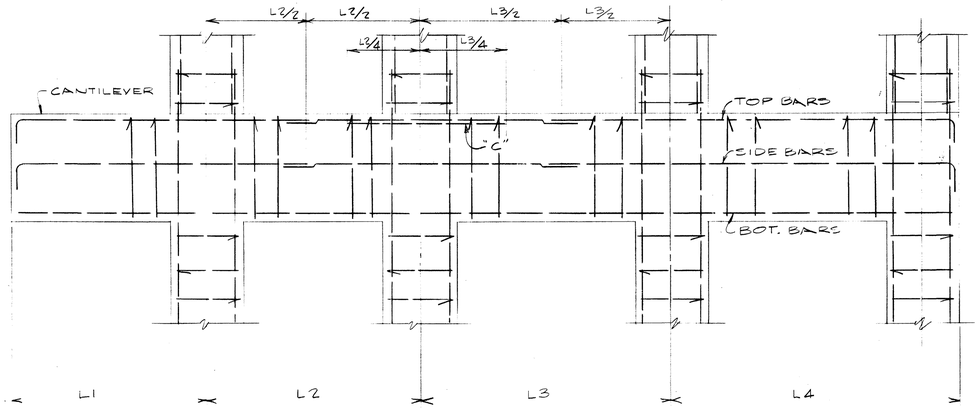
| MK | SIZE | TOP | BOT. | #3 STIRRUPS | MIN. BRG | REMARKS |
|---|---|---|---|---|---|---|
| UPTO4' | 8x8" | 2#5 | 2#5 | @12" | 3" | |
| 4'TO8' | 8x16 | 2#5 | 2#5 | @12" | 3" | |
| 8'TO12' | 8x16 | 2#5 | 2#6 | @12" | 12" | |
| 12'TO16' | 8x16 | 2#5 | 2#7 | @12" | 12" | |
| | | | | | | |

## FOOTING SCHEDULE

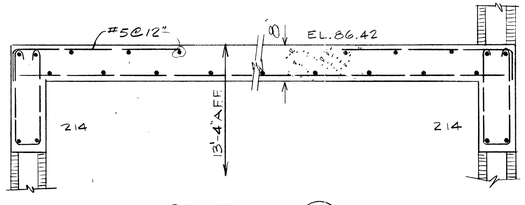
| MK | SIZE | REINFORCEMENT BOT. E.W. | BOT. L.W. | BOT. S.W. | TOP L.W. | TOP S.W. |
|---|---|---|---|---|---|---|
| ⚠A | 5'-0"x5'-0"x12" | 5#5 | | | | |
| ⚠B | 5'-8"x5'-8"x14" | 6#5 | | | | |
| ⚠C | 7'-0"x7'-0"x17" | 6#6 | | | | |
| ⚠D | 6'-0"x6'-0"x14" | 7#5 | | | | |
| ⚠E | 7'-6"x7'-6"x18" | 7#6 | | | | |
| ⚠F | 6'-8"x6'-8"x17" | 6#6 | | | | |
| ⚠G | 10'-4"x10'-8"x22" | | 3#6 | 11#6 | 9#6 | 11#6 |
| ⚠H | 20"x10" | | 2#5 | #5@48" | 2#5 UNDER OPNG | #5@48" |
| ⚠J | 28"x10" | | 3#5 | #5@48" | do | #5@48" |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## 2ND FLOOR BEAM SCHEDULE

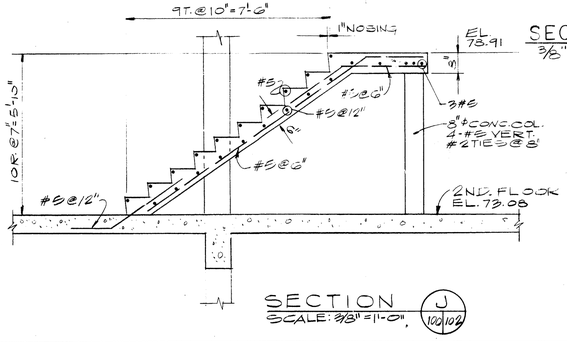
| MK | REINFORCEMENT SIZE | BOT. | "C" | TOP | EA. SIDE | #3 STIRR. EA. END | REMARKS |
|---|---|---|---|---|---|---|---|
| 200 | 12x32 | 2#7 | | 2#7 | 2#5 | 5@12" | |
| 201 | 12x32 | 2#8 | *1#7 | 2#7 | 2#5 | 5@8",5@12" | *EACH END |
| 202 | 12x26 | 2#6 | | 2#6 | 1#5 | @12" | |
| 203 | 12x24 | 2#9 | | 3#9 | | 3@8",3@12" | |
| 204 | 12x24 | 2#10 | | 2#6 | | 3@8",3@12" | |
| 205 | 12x24 | 2#9 | 2#9 | 2#6 | | 4@8",4@12"* | *CLOSED TIES |
| 206 | 12x24 | 2#8 | 1#7 | 2#6 | | 3@8",3@12" | |
| 207 | 12x24 | 2#8 | 1#7 | 2#6 | | 3@8", 3@12" | |
| 208 | 12x24 | 2#8 | | 2#6 | | 3@8", 3@12" | |
| 209 | 12x24 | 2#10 | | 3#8 | | 3@8", 3@12" | |
| 210 | 12x24/8 | 2#6 | | 3#8 | | 3@6",3@8",3@12 | |
| 211 | 12x24/6 | 2#6 | | 3#8 | | 3@6,3@8",3@12 | |
| 212 | 12x24 | 2#8 | 1#6 | 2#6 | | 3@8", 4@12" | |
| 213 | 12x24 | 2#8 | 1#6 | 2#6 | | 3@8", 4@12" | |
| 214 | 8x24 | 2#7 | | 2#5 | | 1@6, 2@12" | |
| 215 | 12x24 | 2#6 | | 2#6 | | 1@6, 2@12" | |
| 216 | 12x32 | 2#8 | | 2#6 | 2#5 | @12" | FOR 216A SEE DET. |
| 217 | 12x26 | 2#6 | | 2#6 | 1#5 | @12" | |
| 218 | 12x16 | 2#5 | | 2#5 | | @12" | |
| | | | | | | | |



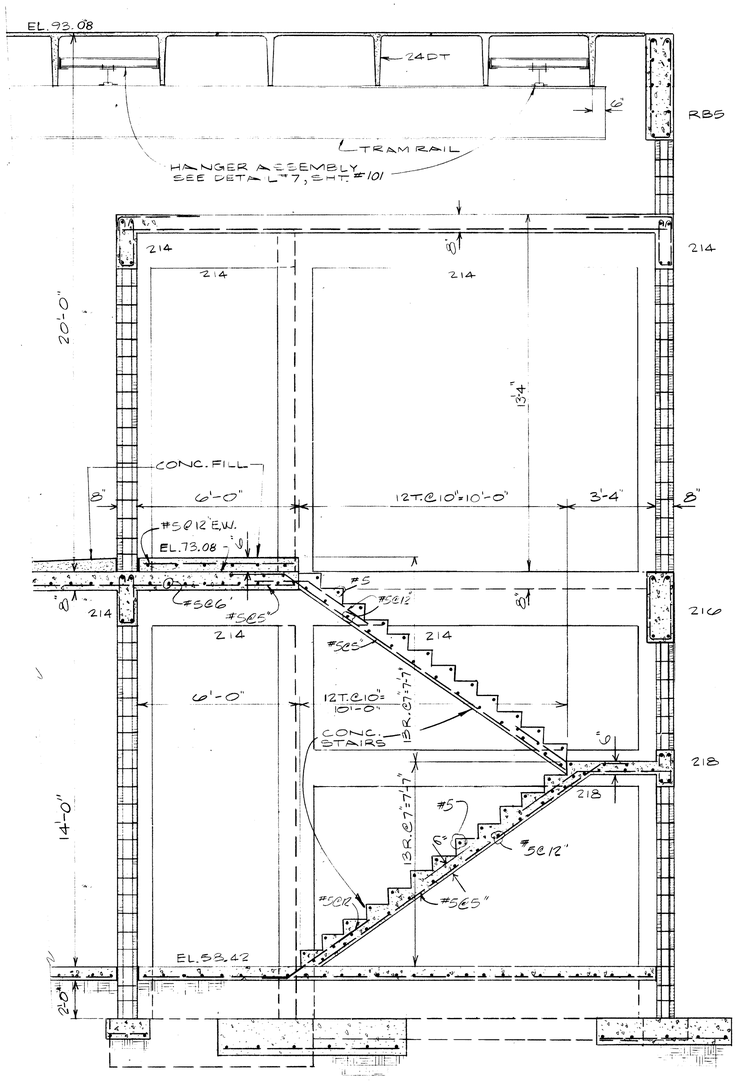

BEAM DIAGRAM
N.T.S.




SECTION (E) 100/102
3/4" = 1'-0"




SECTION (J) 100/102
SCALE: 3/8" = 1'-0"




SECTION (C) 99/102
3/8" = 1'-0"

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| REV. NO. | DATE | REVISION | BY |
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DESIGNED JTS
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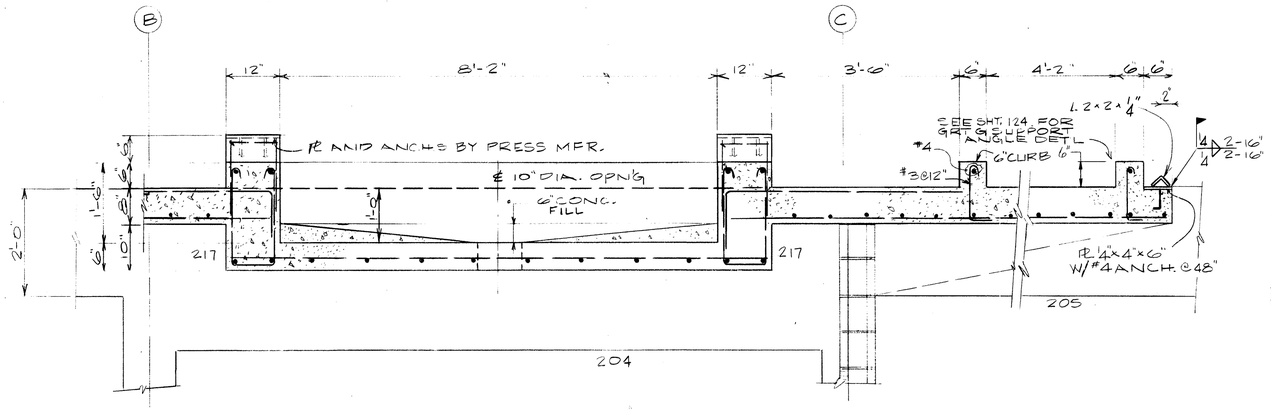
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE DEWATERING BUILDING-
STRUCTURAL SECTIONS & SCHEDULES
CLEARWATER, FLORIDA

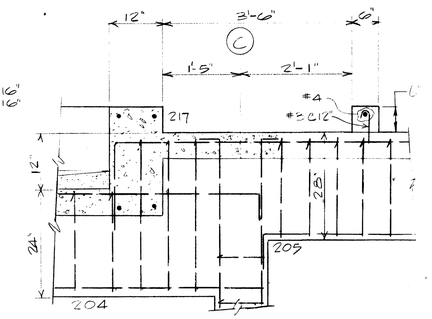
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 102 OF 166

PROJ. NO. 87054-2
FILE NO. 13075

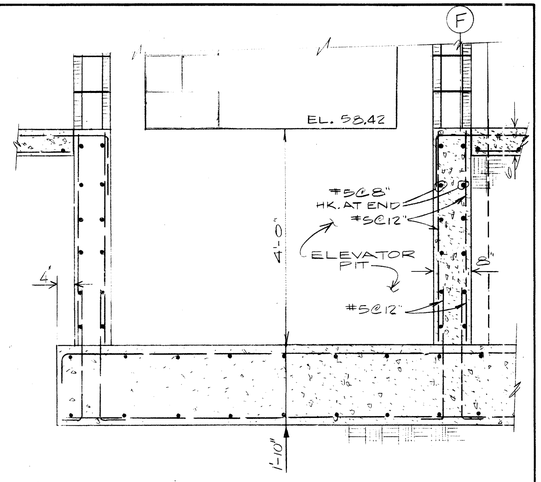
92016



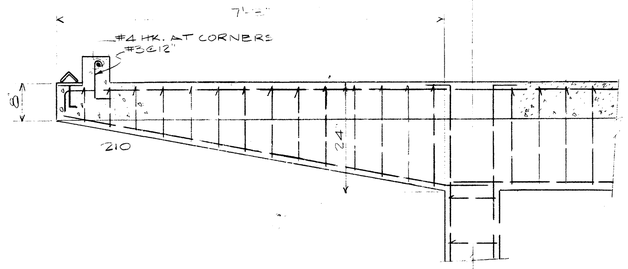

SECTION A
3/4"=1'-0"
100|103




SECTION B
3/4"=1'-0"
100|103




DETAIL 11
3/4"=1'-0"
103




SECTION AT BM# 210
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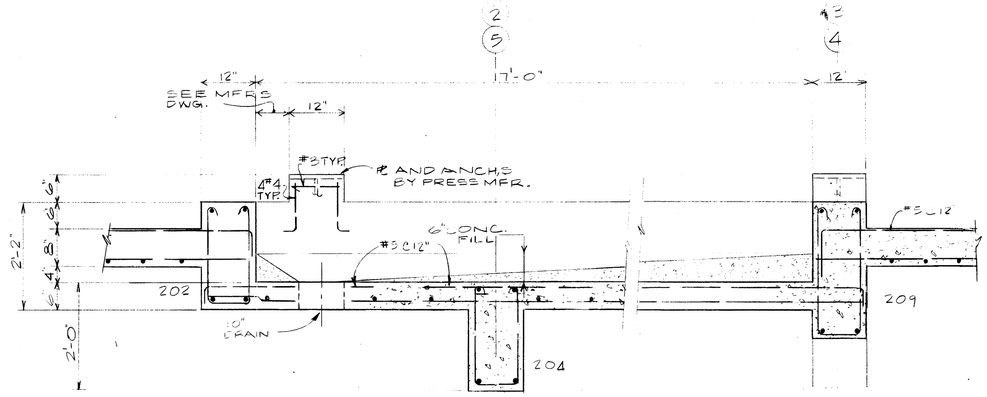
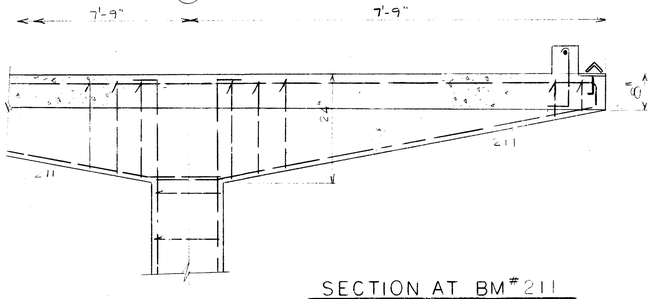



SECTION D
3/4"=1'-0"
100|103




SECTION AT BM# 211
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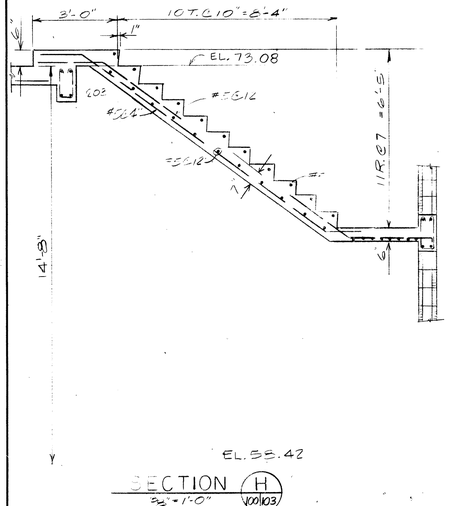
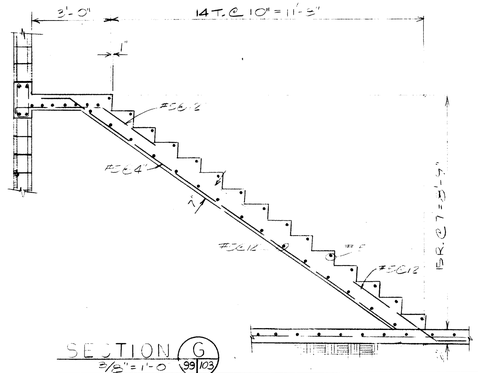
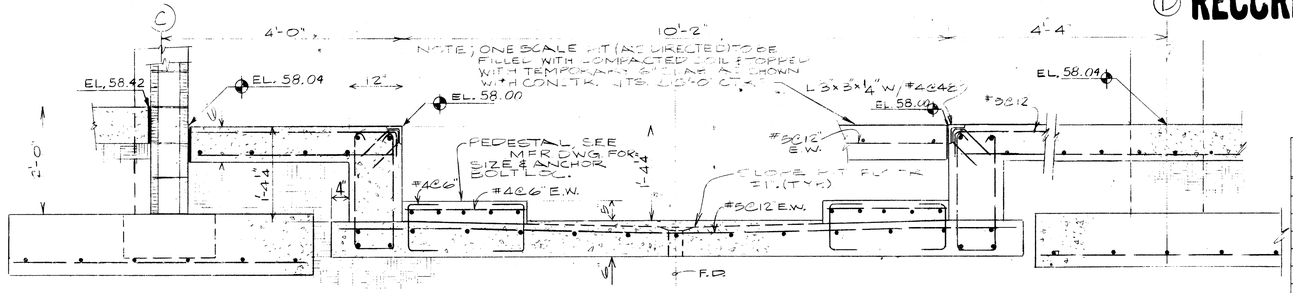



SECTION H
3/4"=1'-0"
100|103




SECTION G
1/2"=1'-0"
99|103




SECTION F
N.T.S.
99|103

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| A | APPROVAL |
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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE DEWATERING BUILDING-
STRUCTURAL SECTIONS & DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 103 OF 166

PROJ. NO. 87054-2
FILE NO. 13076

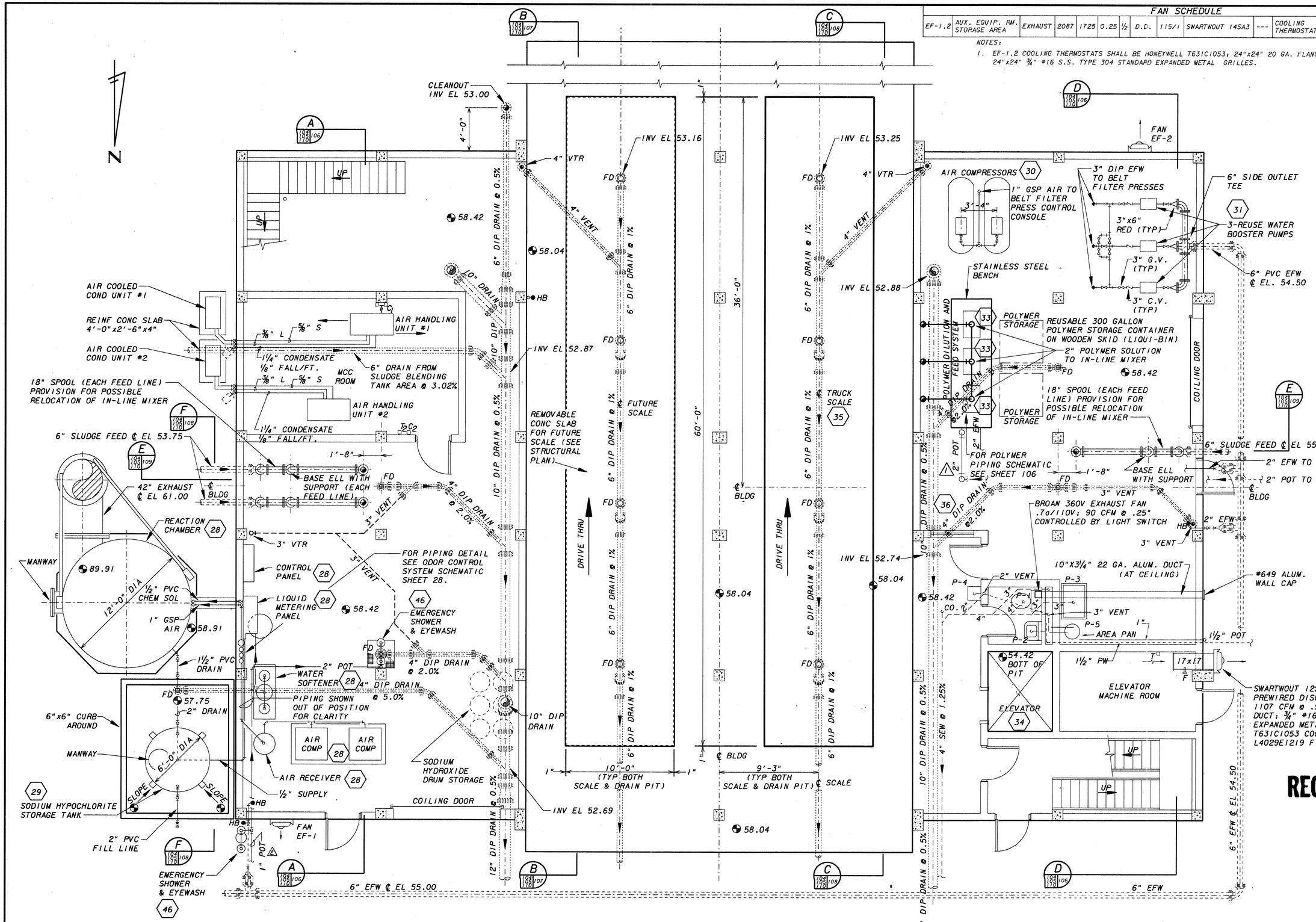
92016

## FAN SCHEDULE

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1,2 | AUX. EQUIP. RM. STORAGE AREA | EXHAUST | 2087 | 1725 | 0.25 | ½ | D.D. | 115/1 | SWARTWOUT 14SA3 | --- | COOLING THERMOSTAT | PVC COATED WHEEL, PVC BIRDSCREEN, PREWIRED DISC SW |

NOTES:

1. EF-1,2 COOLING THERMOSTATS SHALL BE HONEYWELL T631C1053; 24"x24" 20 GA. FLANGED ALUMINUM WALL SLEEVES; 24"x24" ¾" #16 S.S. TYPE 304 STANDARD EXPANDED METAL GRILLES.

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| C | CHECK PRINT |
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| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY | CHECKED |
|---|---|---|---|---|
| 2 | 5-Mar-92 | RECORD DRAWING | KFP | YCL |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | KRM | |

DESIGNED THL
DRAWN
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Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

**SLUDGE DEWATERING BUILDING-MECHANICAL FIRST FLOOR PLAN**

CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1/4"=1'-0"
SHEET NO. 104 OF 166
PROJ. NO. 87054-2
FILE NO. 13077

92016

PRF=051: [30,3771377114, DATE=16-JUL-91, TIME=08:05:24 !

N

NOTES:

1.) SPECIFIC CONVEYOR DETAILS TO BE AS PER MFR'S. RECOMMENDATIONS.

2.) ODOR DUCTING NOT SHOWN - SEE SHEET 110.

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| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY | CHECKED | YCL |
|---|---|---|---|---|---|
| 1 | 5-11-92 | RECORD DRAWING | KFP | DRAWN | |
| | | | | DESIGNED | THL |

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

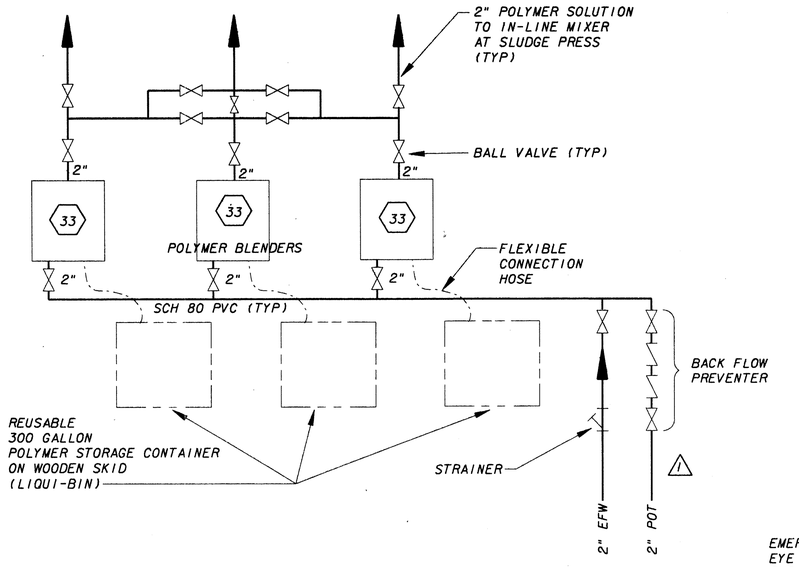
SLUDGE DEWATERING BUILDING- MECHANICAL SECOND FLOOR PLAN

CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1/4"=1'-0"
SHEET NO. 105 OF 166
PROJ. NO. 87054-2
FILE NO. 13078

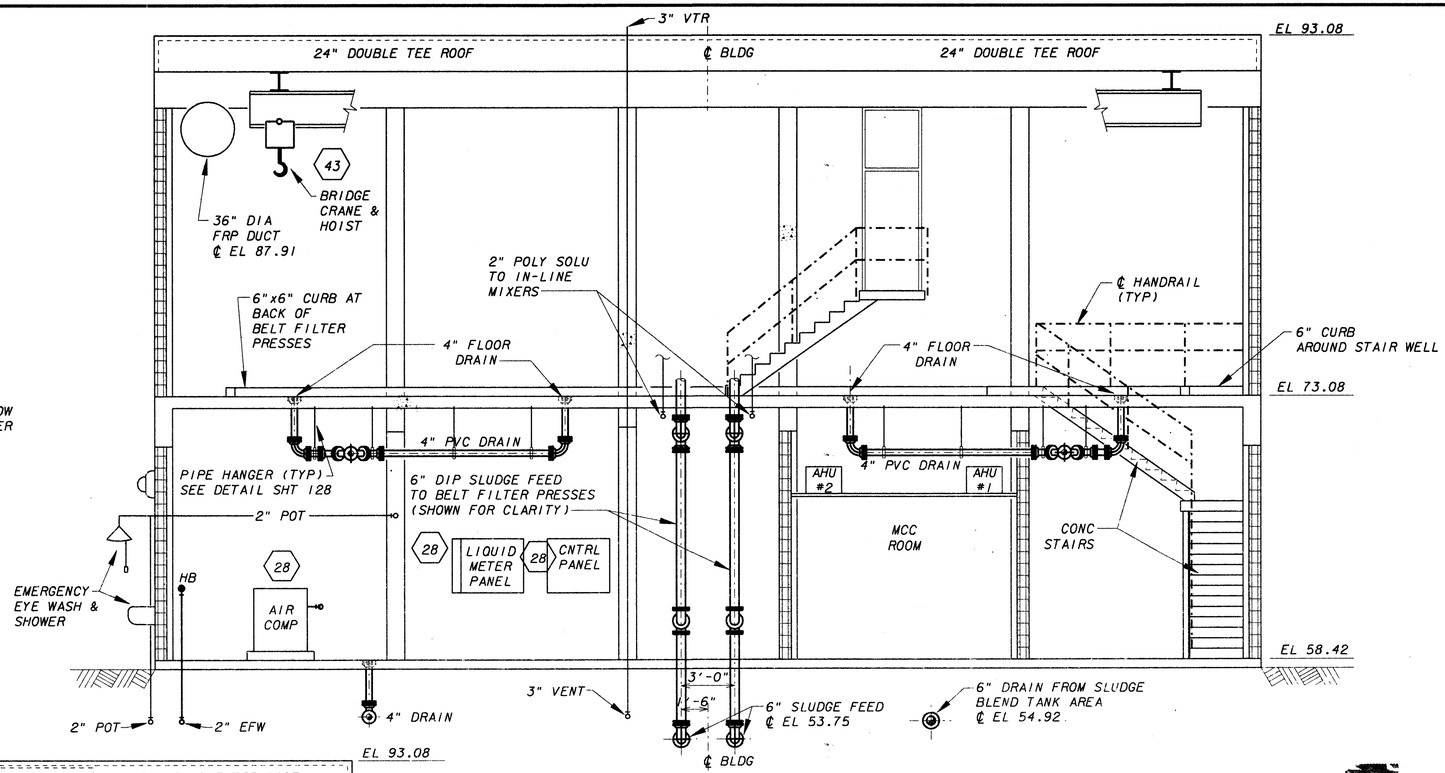
92016


PRF=QS1: [30,377]377115, DATE=16-JUL-91, TIME=08: 40: 22 !




## POLYMER DILUTION AND FEED SYSTEM SCHEMATIC

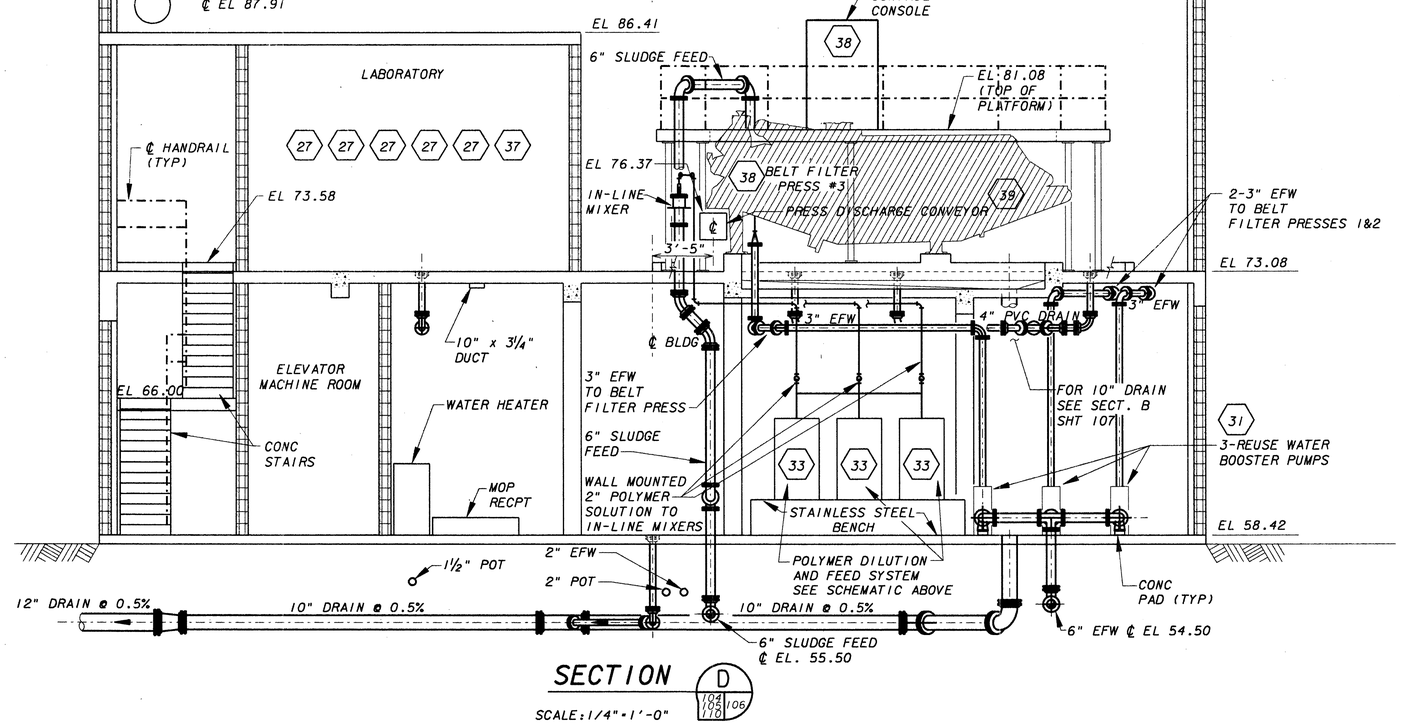
SCALE: NONE




## SECTION A

104 105 106 110

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




## SECTION D

104 105 106 110

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

NOTES:

1.) FOUNDATION NOT SHOWN - SEE SHEET 99.

2.) SPECIFIC CONVEYOR DETAILS TO BE AS PER MFR'S. RECOMMENDATIONS.

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| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY | CHECKED |
|---|---|---|---|---|
| 2 | 5-16-92 | RECORD DRAWING | KFP | THL |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | KRM | YCL |

DESIGNED: KFP
DRAWN: KRM
CHECKED: YCL

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:

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Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

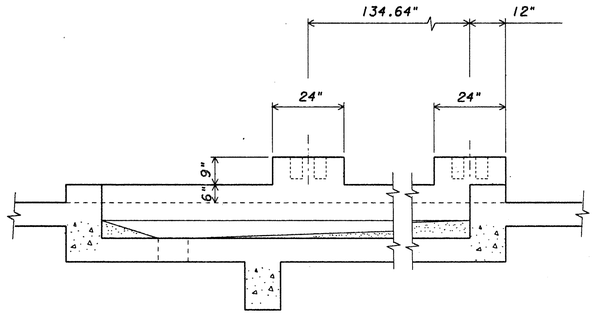
**SLUDGE DEWATERING BUILDING - MECHANICAL SECTIONS**

CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 106 OF 166
PROJ. NO. 87054-2
FILE NO. 13079

92016

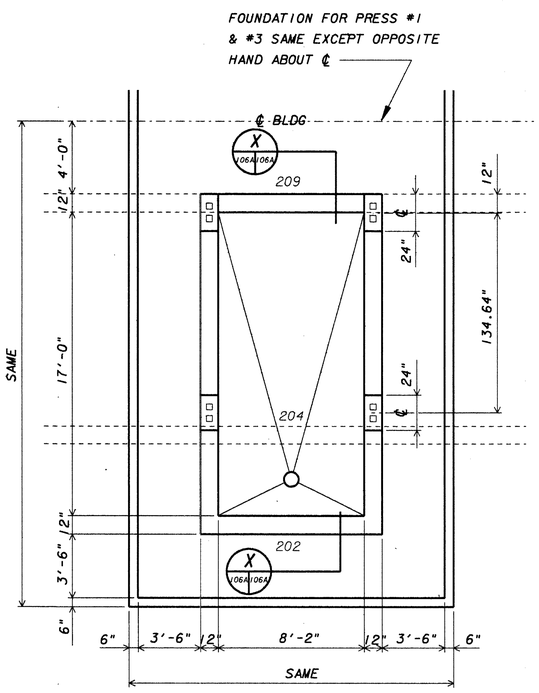
PRF=GS1: [30,377]377116. DATE=16-JUL-91. TIME=09:05:08 !




## SECTION X (106A/106A)

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

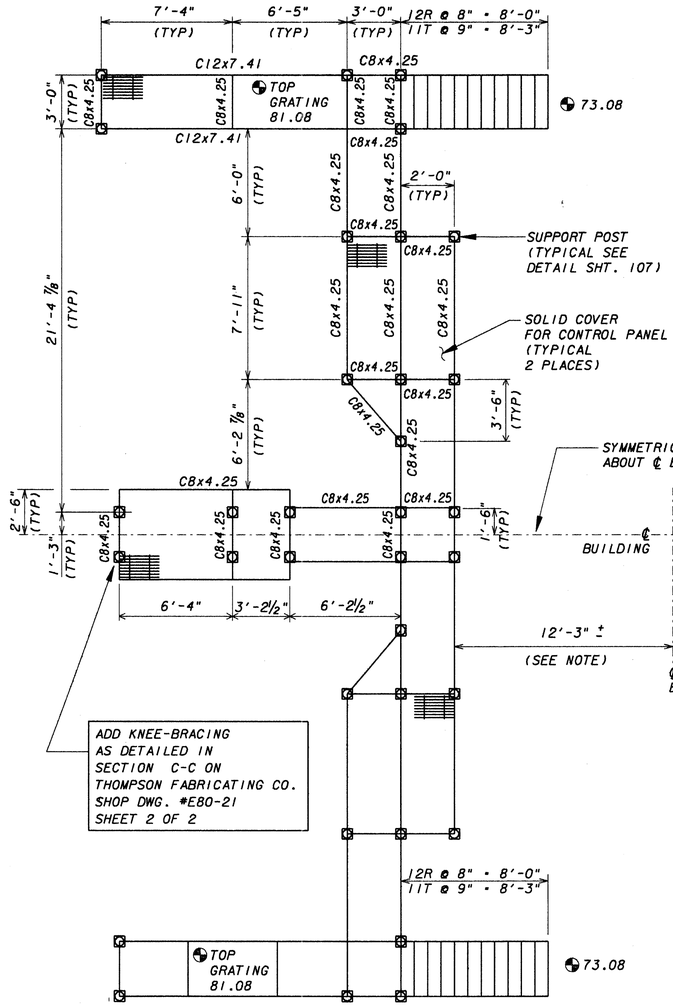
(REFERENCE SECTION D SEE SHEET 103 OF 166)




## PRESS FOUNDATION PLAN

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

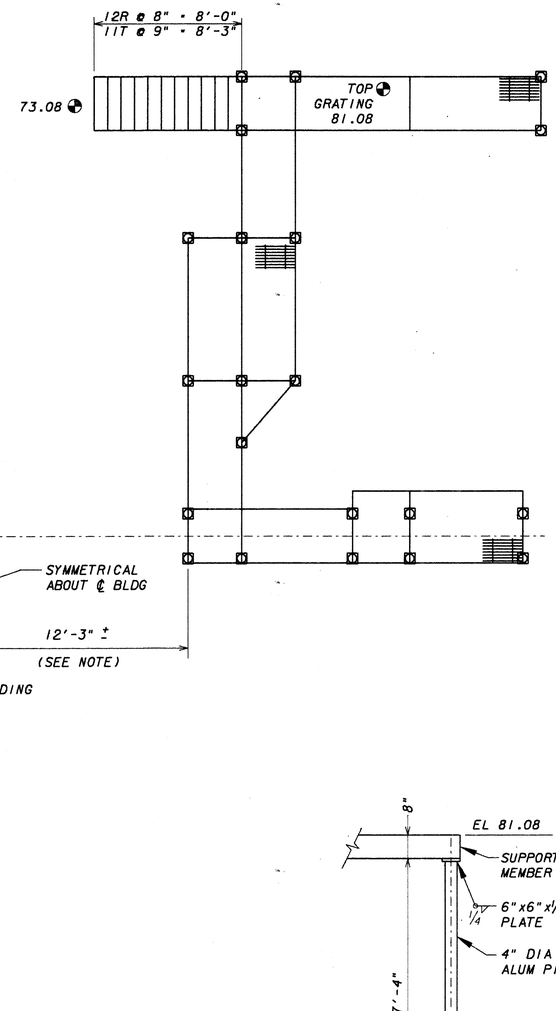
(REFERENCE SHEET 100 OF 166)

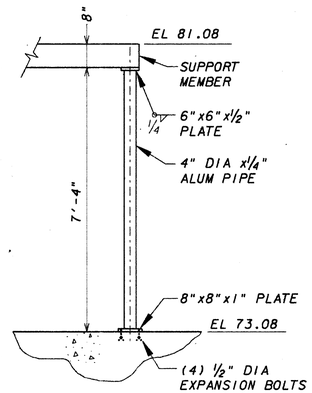



## BELT FILTER PRESS PLATFORM FRAMING PLAN

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

NOTE: LOCATE THE ENTIRE PLATFORM AS CLOSE TO THE PRESS AS POSSIBLE (FROM THE SIDE). RECOMMENDED DISTANCE TO BE 12 INCHES CLEARANCE, BUT EXACT DISTANCE TO BE DETERMINED IN THE FIELD AT THE TIME OF INSTALLATION, BY THE HEIGHT OF THE PLATFORM AND CONFLICT WITH EQUIPMENT MAINTENANCE ON THE SIDE OF THE BELT PRESSES.




## SUPPORT POST

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

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# RECORD DRAWING

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| RD | 4-21-92 |

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| P | PRELIMINARY |
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| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| RD | RECORD DRAWING |

| REV NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3-4-92 | RECORD DRAWING | KFP |

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CHECKED RAE
ENGINEER:
ACCEPTED:

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CONSULTING ENGINEERS AND PLANNERS
ORMOND BEACH - DAYTONA BEACH - CLEARWATER - BRADENTON, FLORIDA

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

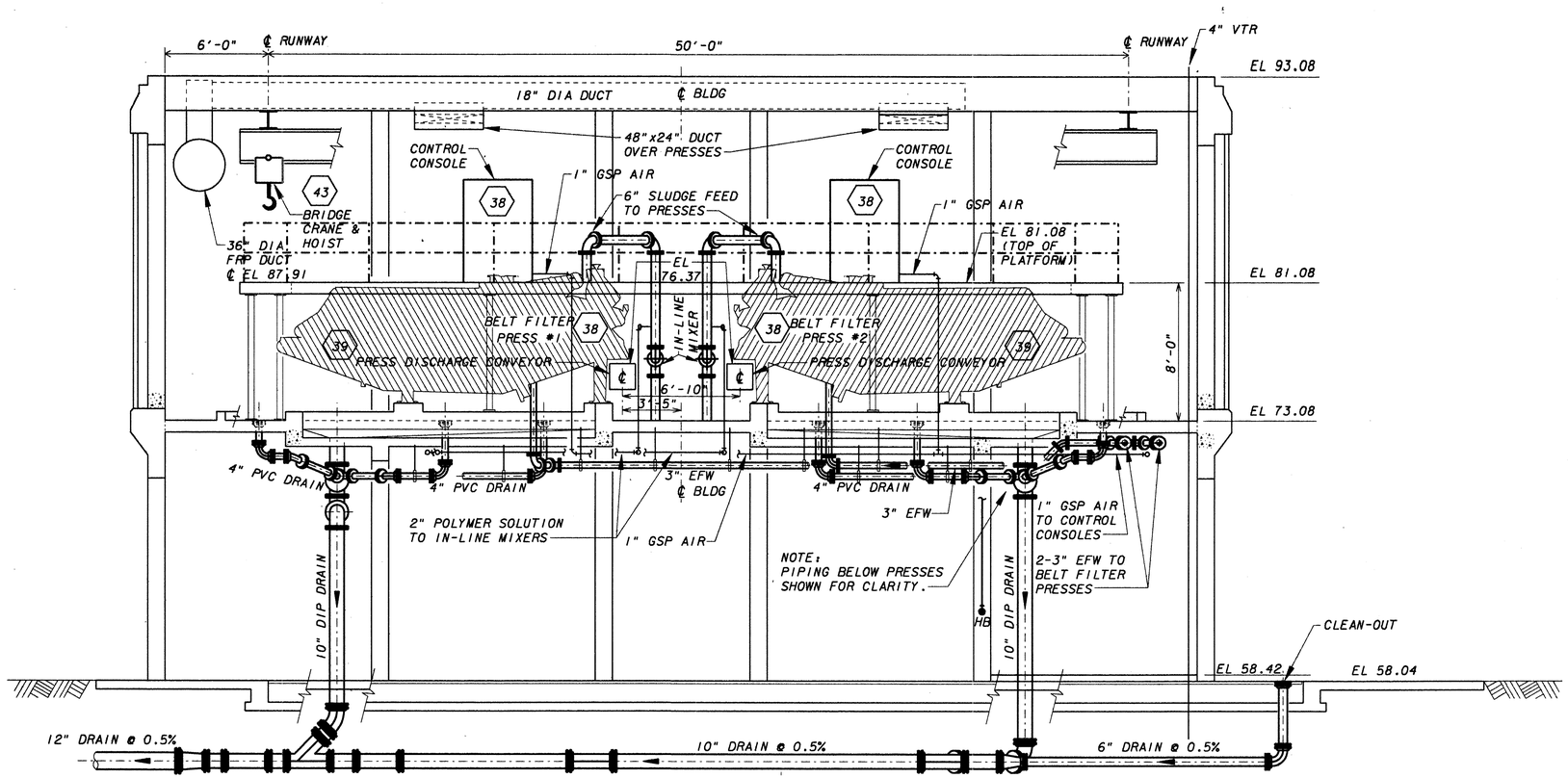
SLUDGE DEWATERING BUILDING- BELT FILTER PRESS PLATFORMS

CLEARWATER, FLORIDA

DATE: MAY 1990
SCALE: AS SHOWN
SHEET NO. 106A OF 166
PROJ. NO. 87054-2
FILE NO. 13079A

92016

PRF=GS1: (30, 377)377118, DATE=16-JUL-91, TIME=09: 32: 16 !




## SECTION (B) 102 105 107 170

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

NOTES:

1.) FOUNDATION NOT SHOWN - SEE SHEET 99.

2.) SPECIFIC CONVEYOR DETAILS TO BE AS PER MFR'S. RECOMMENDATIONS.

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| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
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| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 1 | 3-16-92 | RECORD DRAWING | KFP |

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SUBMITTED: BRILEY, WILD & ASSOCIATES

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

SLUDGE DEWATERING BUILDING-MECHANICAL SECTIONS

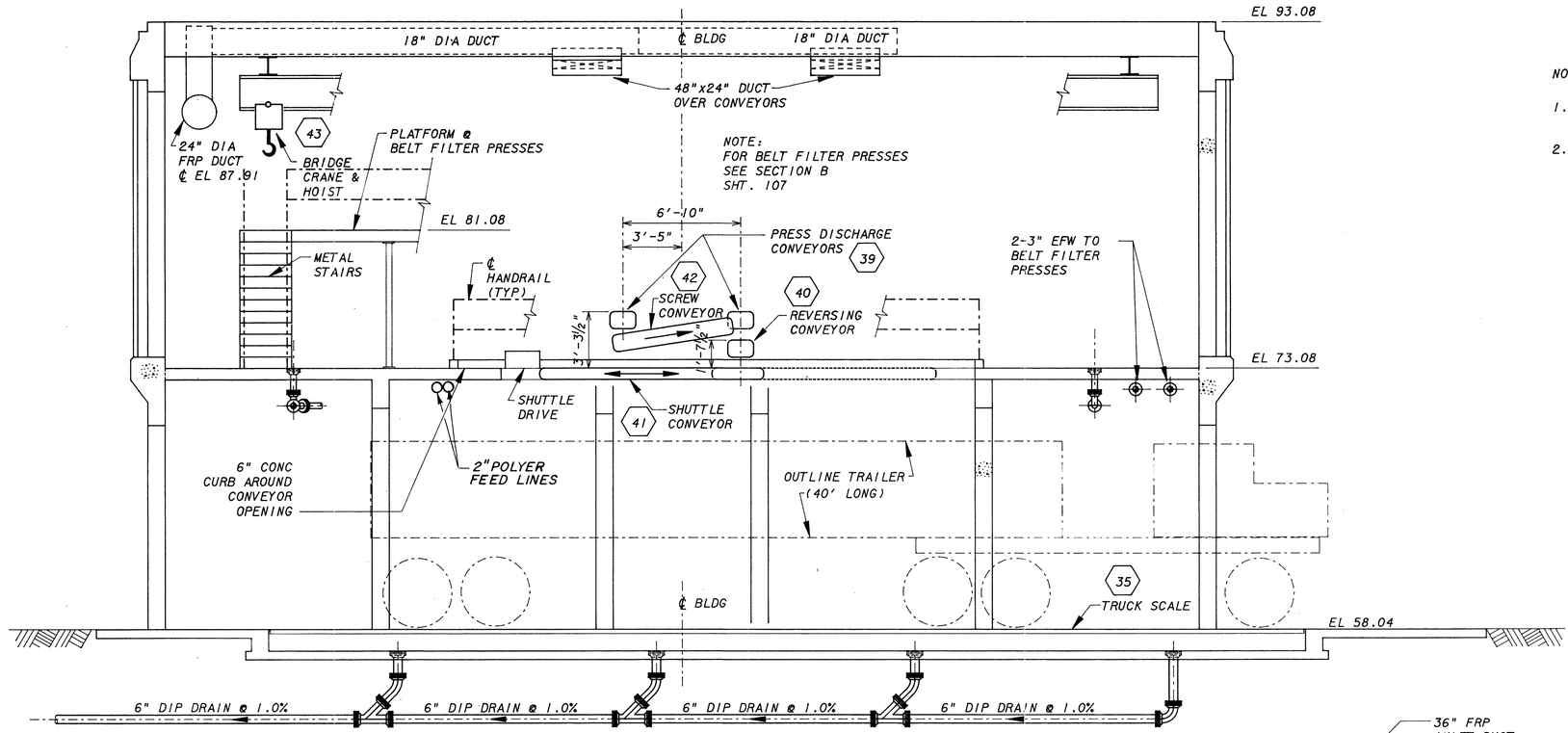
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 107 OF 166

PROJ. NO. 87054-2
FILE NO. 13080

92016

PRF-GS1: [30,377]377117, DATE=16-JUL-91, TIME=09:16:51

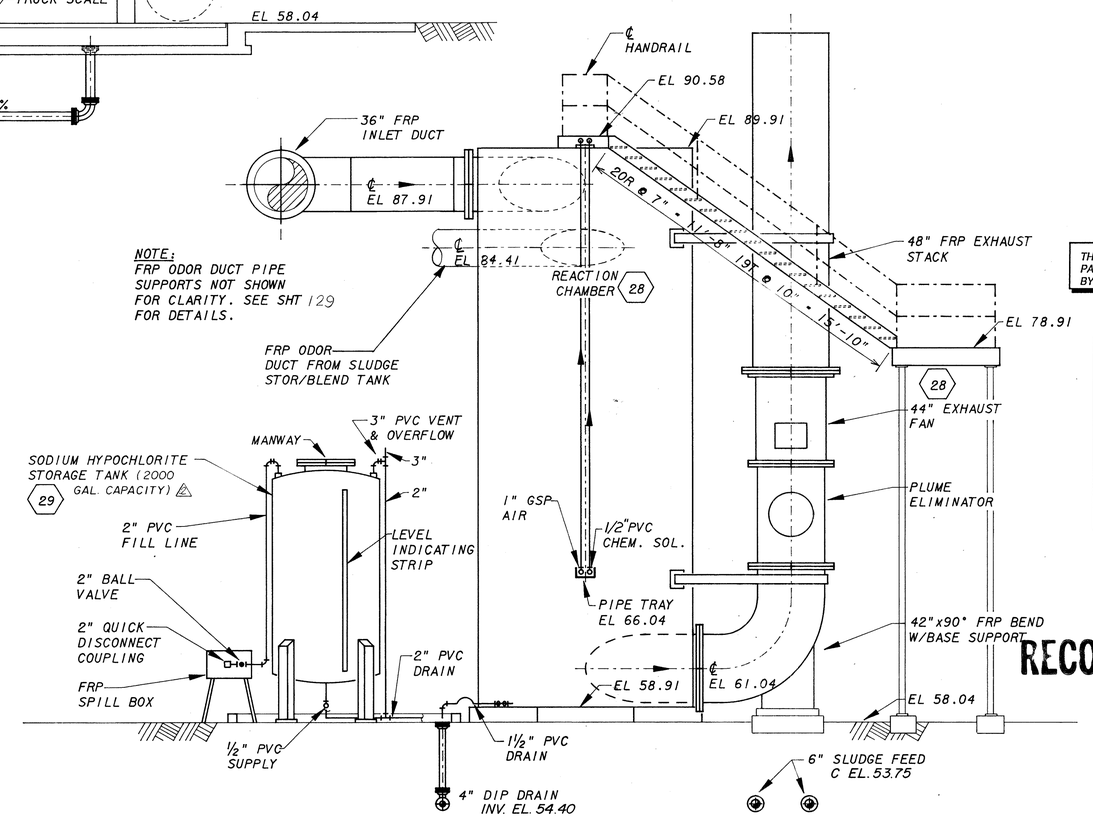



SECTION C
104 105 108 110
SCALE: 1/4"=1'-0"

NOTES:

1.) FOUNDATION NOT SHOWN - SEE SHEET 99.

2.) SPECIFIC CONVEYOR DETAILS TO BE AS PER MFR'S. RECOMMENDATIONS.




SECTION F
104 105 108 110
SCALE: 1/4"=1'-0"

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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 2 | 5/31/89 | REVISED PER ADDENDUM #2 | SGO |

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*Ormond Beach - Clearwater - Bradenton, Florida*

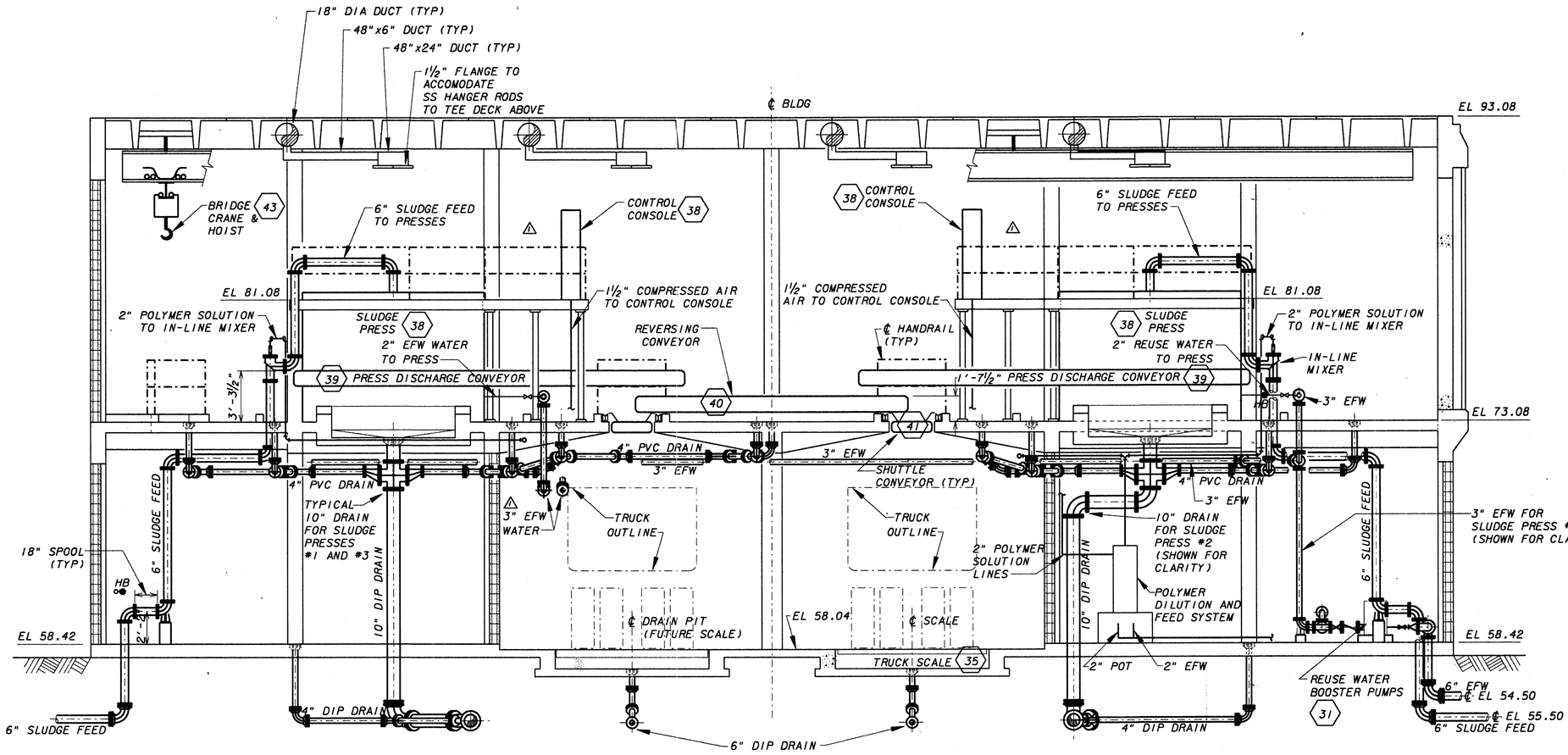
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE DEWATERING BUILDING
MECHANICAL SECTIONS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1/4"=1'-0"
SHEET NO. 108 OF 166

PROJ. NO. 87054-2
FILE NO. 13081

92016

3710-47 11/19/88




SECTION E (104, 105, 109, 110)

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AIR CONDITIONING EQUIPMENT SCHEDULE

| UNIT# | TYPE | SEER | ARI COOLING BTU/HR | KW HEAT 240/1/60 | CFM/ S.P." | O.A. CFM | COMP. F.L.A. 240/1/60 | IND. FAN HP | OUTD. FAN HP | COND. LINE | SUCT. LINE | LIQ. LINE | FILTER HIGH VELOCITY | MODEL NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2 | SPLIT COOLING | 10.0 | 24,000 | - | 620/- | - | 11.5 | 1.8a | .5a, Aa | 1-1/4" | 5/8" | 3/8" | PERMANENT | MITSUBISHI PJ-24AG.US, PU-24GG.US |
| 3 | SPLIT COOLING | 8.8 | 18,000 | 5.8 | 575/.4 | - | 8.7 | 1/4 | 1/8 | 3/4" | 5/8" | 1/4" | 20x20x1 | TRANE TWH024B140A,TTJ718A100A, BAY0614N0 |

NOTES:
1. UNIT #1 AND #2 SHALL BE CONTROLLED FROM REMOTE AUTOMATIC CONTROLLERS FURNISHED WITH UNIT AND HONEYWELL T631C1053 COOLING THERMOSTATS.
2. UNIT #3 - AIR HANDLING UNIT SHALL BE SUSPENDED FROM OVERHEAD BY 3/8" ϕ STEEL RODS AND 1¾" x 1¾" x 3/16" GALV. STEEL ANGLES WITH AUXILIARY DRAIN PAN. UNIT SHALL BE CONTROLLED BY A SINGLE STAGE COOLING-SINGLE STAGE HEATING THERMOSTAT WITH MANUAL CHANGEOVER, ON-AUTO FAN SWITCH, ON-OFF SYSTEM SWITCH, AND FIRESTAT CONTROL (135°) LOCATED IN THE RETURN AIR DUCT TO SHUT OFF A.H.U. FAN.
3. UNITS #1 AND #2 - CONDENSATE LINES SHALL BE PITCHED 1/8"/FT. UNIT #3 - CONDENSATE LINE SHALL HAVE A MIN. OF 3" DROP TO 1" TRAP, PITCHED 1/8"/FT. SUCTION LINES AND CONDENSATE LINES SHALL BE INSULATED WITH 1/2" ARMAFLEX TYPE AP INSULATION WITH JOINTS AND SEAMS SEALED WITH ADHESIVE. EXPOSED INSULATION SHALL BE PAINTED WITH TWO (2) COATS OF WHITE EXTERIOR ARMAFLEX PAINT.

NOTES:

1.) FOUNDATION NOT SHOWN - SEE SHEET 99.

2.) SPECIFIC CONVEYOR DETAILS TO BE AS PER MFR'S. RECOMMENDATIONS.

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 1 | 3/10/92 | RECORD DRAWING | KFP |

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CHECKED YCL

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

SLUDGE DEWATERING BUILDING-MECHANICAL SECTIONS

CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1/4" = 1'-0"
SHEET NO. 109 OF 166
PROJ. NO. 87054-2
FILE NO. 13082

92016

PRF=DS1: (30,3771377119, DATE=16-JUL-91, TIME=09:55:24)

N

NOTES:

1) ALL ODOR DUCTING TO BE FIBERGLASS REINFORCED PLASTIC.

2) ALL DUCTING TO BE SUPPORTED USING HANGERS SPACED @ 10'-0" CC. SEE HANGER DETAIL SHEETS 128 & 129.

3) FOR DUCT SUPPORTS OUTSIDE BUILDING SEE SHEET 129.

4) FOR AIR CONDITIONING SCHEDULES SEE SHEET 109.

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| RD | 4-21-92 |
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| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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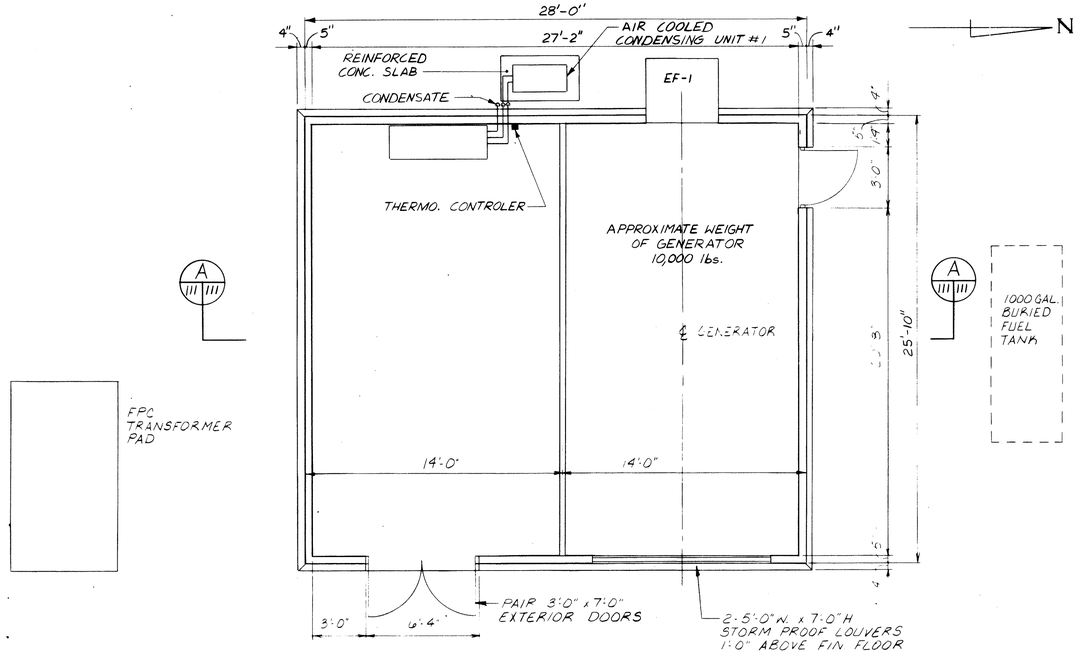
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE DEWATERING BUILDING
HEATING, VENTILATING & AIR CONDITIONING
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1/4"=1'-0"
SHEET NO. 110 OF 166
PROJ. NO. 87054-2
FILE NO. 13083

92016

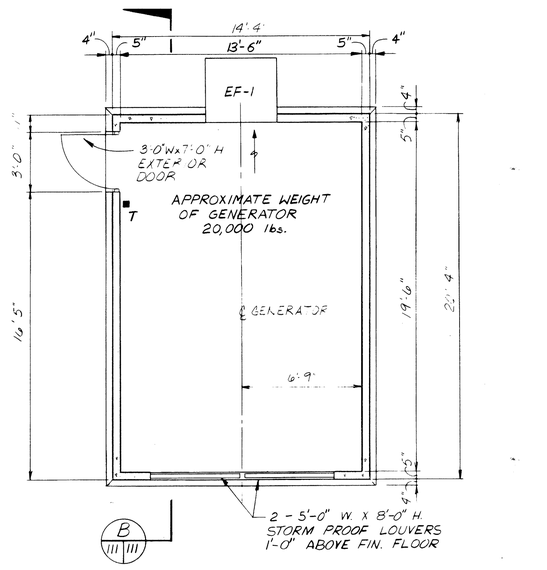
11/17/88
377052




PLAN - PRECAST CONCRETE MCC/GENERATOR ENCLOSURE AT SCREW LIF STATION

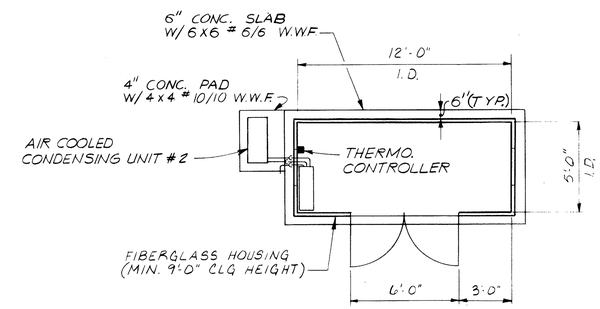
SCALE: 1/4" = 1'-0"

**SEE SHEET III-A FOR FINAL AS BUILT CONFIGURATION** ⚠



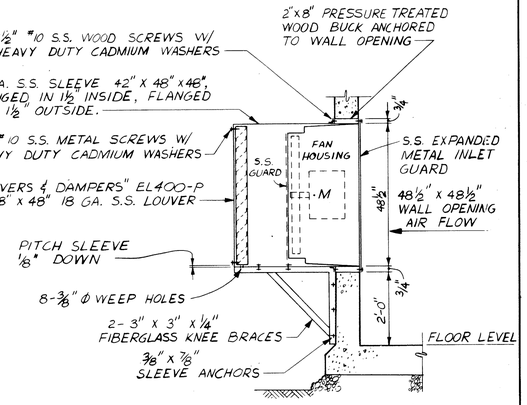

PLAN - PRECAST CONCRETE GENERATOR ENCLOSURE AT EFFLUENT FILTERS

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



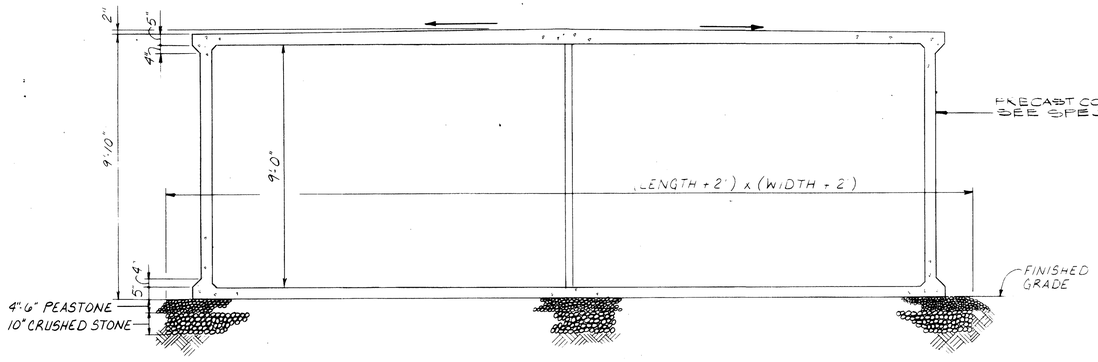

PLAN - MCC HOUSING AT SECOND ANOXIC & REAERATION TANKS

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



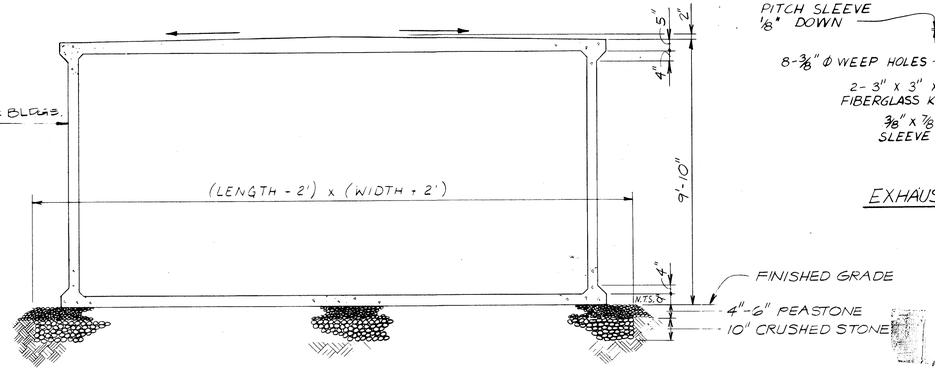

EXHAUST FAN MOUNTING DETAIL

NOT TO SCALE




SECTION A

SCALE 3/8" = 1'-0"




SECTION B

SCALE 3/8" = 1'-0"

| AIR CONDITIONING EQUIPMENT SCHEDULE | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIT# | TYPE | EER | ARI COOLING BTU/HR | KW HEAT | CFM/ S.P." | O.A. CFM | MIN. CIR. AMP. 230/1 | IND. FAN HP | OUTD. FAN HP | COND. LINE | SUCT. LINE | LIQ. LINE | FILTER HIGH VELOCITY | ⚠TRANE MODEL NUMBER |
| 1 | SPLIT HEAT PUMP | 8.0 | 44,000 | - | 1200/- | - | 28.5 | - | - | 3/4" | 3/4" | 3/8" | YES | TWA 048A4, TWH 048B14 ⚠ |

NOTES:
1. CONDENSATE LINE SHALL BE PITCHED 1/4"/FT.
2. SUCTION LINE AND CONDENSATE LINE SHALL BE INSULATED WITH 1/2" ARMAFLEX TYPE AP INSULATION WITH JOINTS AND SEAMS SEALED WITH ADHESIVE.
3. EXPOSED INSULATION SHALL BE PAINTED WITH TWO (2) COATS OF WHITE EXTERIOR ARMAFLEX PAINT.
4. INDOOR UNIT FAN POWERED FROM OUTDOOR UNIT.

| AIR CONDITIONING EQUIPMENT SCHEDULE | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIT# | TYPE | SEER | ARI COOLING BTU/HR | KW HEAT | CFM/ S.P." | O.A. CFM | F.L.A. 115/1 | IND. FAN HP | OUTD. FAN HP | COND. LINE | SUCT. LINE | LIQ. LINE | FILTER HIGH VELOCITY | MODEL NUMBER |
| 2 | SPLIT COOLING | 10.1 | 9,000 | - | 240/- | - | 8.0 | .4a | .8a | 3/4" | 3/8" | 1/2" | ARMAFLEX | COMFORT AIRE MTV III HE ⚠ |

1. UNIT SHALL BE CONTROLLED FROM A REMOTE AUTOMATIC CONTROLLER WITH AUTOMATIC FAN SWITCH.
2. INSULATE SUCTION LINE WITH 1/2" ARMAFLEX INSULATION AND PAINT OUTDOOR ARMAFLEX WITH TWO COATS OF ARMAFLEX WEATHEPPROOF WHITE VINYL PAINT.
3. INSTALL HOFFMAN HEAD PRESSURE CONTROL ON CONDENSING UNIT FAN FOR LOW AMBIENT OPERATION.

| FAN SCHEDULE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | LOCATION | DUTY | CFM | RPM | S.P." | H.P. | DRIVE | VOLT | MFG. MODEL NO. | SONES | CONTROL | ACCESSORIES |
| EF-1 | FILTER BLDG. GENERATOR ENCL. | EXHAUST | 25,100 | 1160 | 1/2 | 5 | DD | 480/3 | AEROVENT 42FG720FDP | - | THERMOSTAT | WALL SLEEVE, S.S. INLET AND DISCHARGE GUARD |

NOTES:
1. EF-1 SHALL BE CONTROLLED BY A HEAVY DUTY COOLING THERMOSTAT HONEYWELL T631C1053. MAGNETIC STARTER AND 110V TRANSFORMER BY ELECTRICAL CONTRACTOR.
2. FAN MOTOR SHALL BE TOTALLY ENCLOSED, NON-VENTILATED MOTOR.

| FAN SCHEDULE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | LOCATION | DUTY | CFM | RPM | S.P." | H.P. | DRIVE | VOLT | MFG. MODEL NO. | SONES | CONTROL | ACCESSORIES |
| EF-1 | GENERATOR ROOM | EXHAUST | 16,250 | 860 | 1/2 | 3 | DD | 480/3 | AEROVENT 42FG720FDP | - | THERMOSTAT | WALL SLEEVE, S.S. INLET AND DISCHARGE GUARD |

NOTES:
1. EF-1 SHALL BE CONTROLLED BY A HEAVY DUTY COOLING THERMOSTAT HONEYWELL T631C1053. MAGNETIC STARTER AND 110V TRANSFORMER BY ELECTRICAL CONTRACTOR.
2. FAN MOTOR SHALL BE TOTALLY ENCLOSED, NON-VENTILATED MOTOR.

NOTE:

ENCLOSURE MANUFACTURER SHALL PROVIDE STANDARD DOORS & LOUVERS OF SIZE SHOWN ON PLANS.

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| B | FOR BIDDING ONLY |
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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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**NORTHEAST ADVANCED POLLUTION CONTROL FACILITY**
**GENERATOR & MCC ENCLOSURES**
**CLEARWATER, FLORIDA**

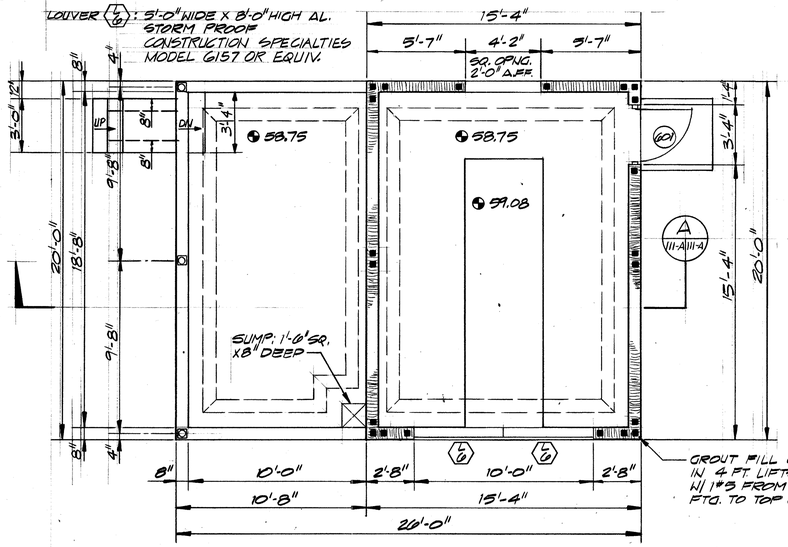
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. III OF 166

PROJ. NO. 87054-2
FILE NO. 13084

92016

DOOR (60) : 3'-0" x 7'-2" x 1 3/4", AL. W/AL. FRAME (SEE DETAILS SHT. 122)

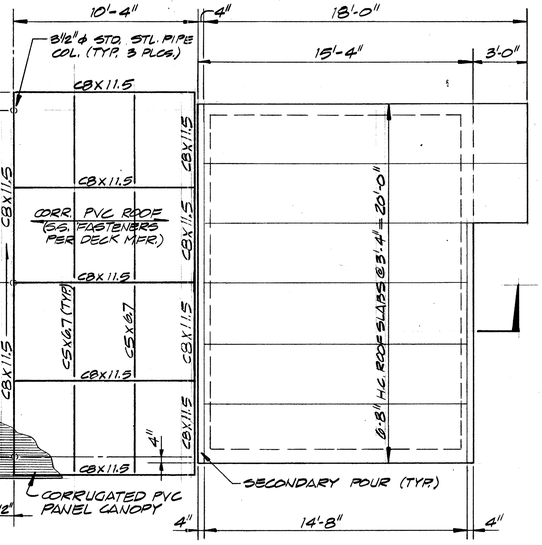
LOUVER (L/6) : 3'-0" WIDE X 8'-0" HIGH AL. STORM PROOF CONSTRUCTION SPECIALTIES MODEL 6157 OR EQUIV.




GROUT FILL CELLS W/ 4 FT. LIFTS REINF. W/ 1#5 FROM BOT. OF FTG. TO TOP OF TIE BM.

## PLAN-GENERATOR ENCLOSURE AT SLUDGE DEWATERING BLDG.

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

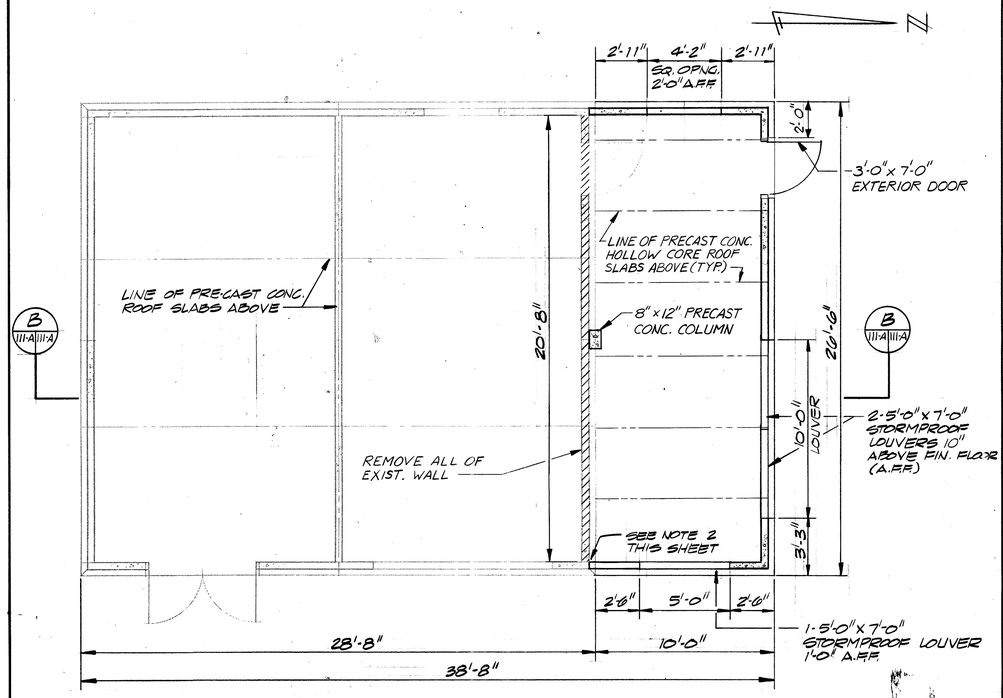



CORRUGATED PVC PANEL CANOPY

SECONDARY POUR (TYP.)

## ROOF PLAN

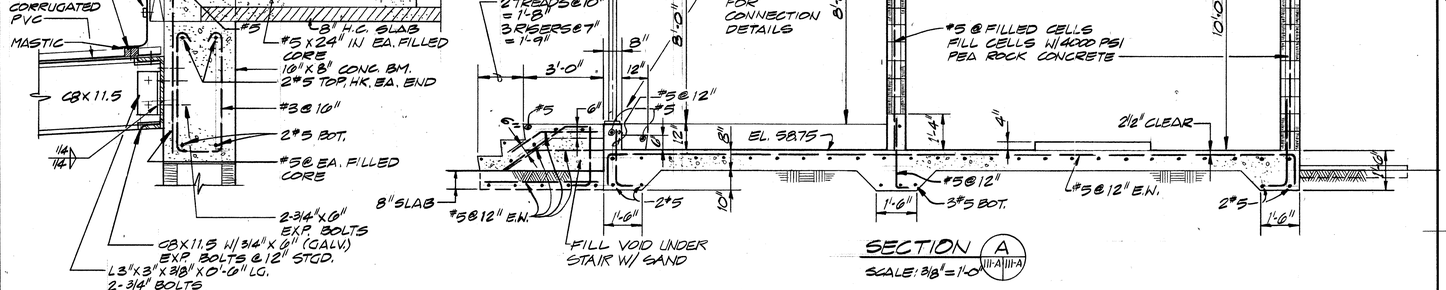
SCALE: 1/4" = 1'-0"




## PLAN - PRECAST CONCRETE MCC/GENERATOR ENCLOSURE AT SCREW LIFT STATION

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

NOTE:
THIS WORK DONE BY ENGINEERING ORDER.
EXISTING REFERS TO WORK SHOWN ON SHEET III.

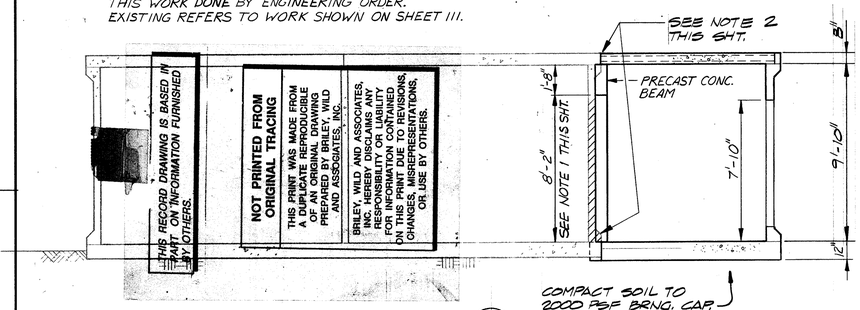






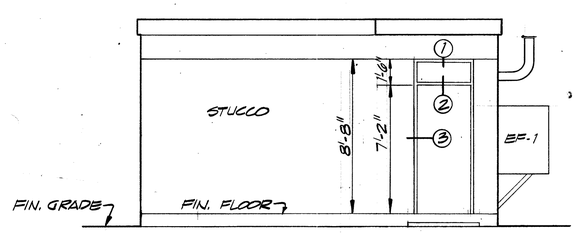
## SECTION A

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



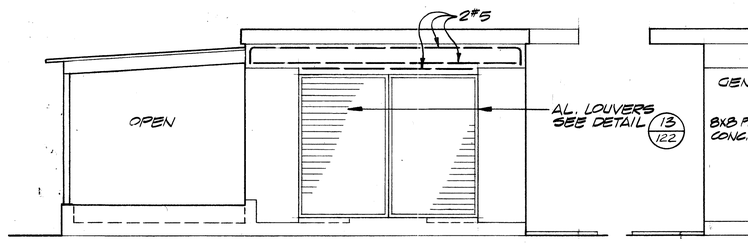

## SECTION B

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



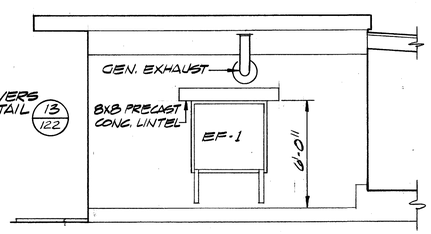

## NORTH ELEVATION

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




## EAST ELEVATION

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




## WEST ELEVATION

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

## NOTES:

1. MANUFACTURER OF PRECAST CONC. ENCLOSURE SHALL SUBMIT SHOP DRAWINGS SHOWING METHOD REQUIRED TO SUPPORT EXIST. &NEW ROOF PANELS WHERE SECTION OF WALL IS TO BE REMOVED. (MATCH EXISTING CONSTRUCTION)
2. MANUFACTURER OF PRECAST CONC. ENCLOSURE SHALL SUBMIT SHOP DRAWINGS SHOWING METHOD OF ATTACHMENT AT EXISTING/ NEW SIDE WALLS & EXISTING/NEW POURED-IN-PLACE FLOOR. (MATCH EXISTING CONSTRUCTION)
3. PROVIDE STD. STEEL CONNECTIONS EXCEPT AS SHOWN.

### LEGEND

EXISTING

REMOVAL

PROPOSED

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 5-16-91 | INCORPORATED E.O. 021 INTO SET AS REC. DRWG. | RAP |

DESIGNED SGO JTS
DRAWN SGO BVB
CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:

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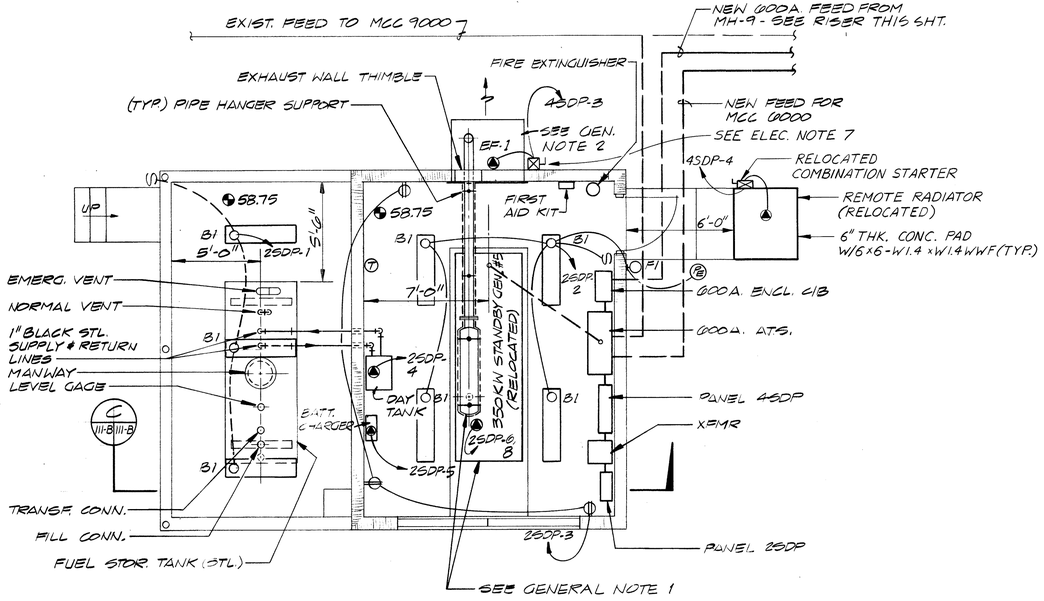
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
GENERATOR ENCLOSURES
ARCHITECTURAL / STRUCTURAL
CLEARWATER, FLORIDA

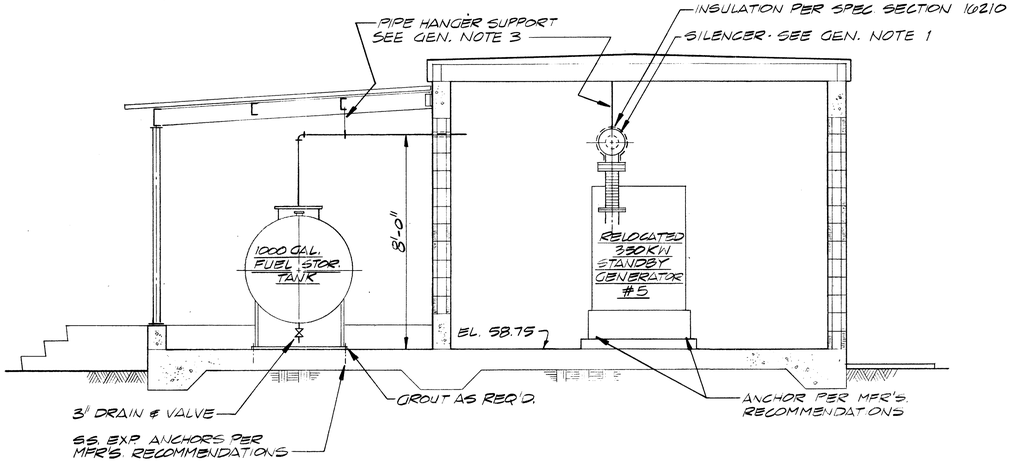
DATE: FEB. 1991
SCALE: AS SHOWN
SHEET NO. III-A OF 166
PROJ. NO. 87054-2
FILE NO. 13084-A

92016



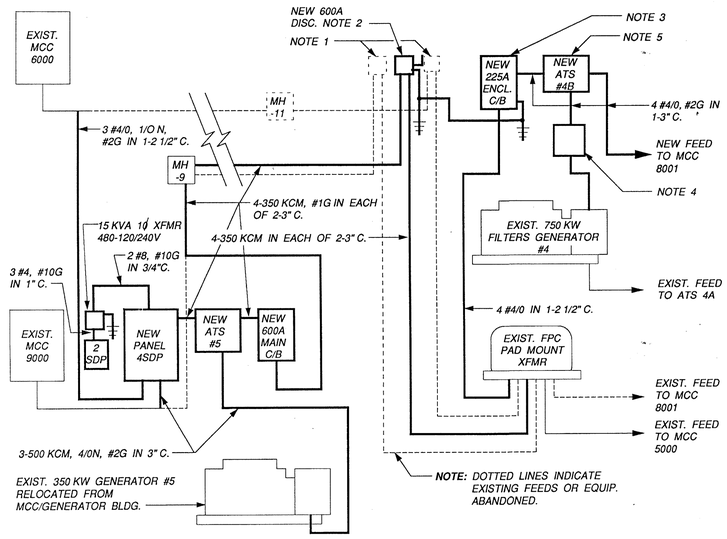

PLAN - GENERATOR ENCLOSURE AT SLUDGE DEWATERING BLDG.

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




SECTION C (III-B/III-B)

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




## RISER DIAGRAM - FILTER BLDG. GEN. ENCLOSURE & SLUDGE DEWATERING BLDG. GEN. ENCLOSURE

SCALE: NONE

PANEL 4SDP

MFR. Sq. D VOLTAGE 277/480 PHASE 3 WIRE 4

CAT # HCW AMPS 600 SYM. AIC, I.E.R. 18,000

MOUNT SURFACE MAIN LUGS ONLY GND BUS X

| CIRCUIT # | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ϕ A | ϕ B | ϕ C |
|---|---|---|---|---|---|---|---|---|
| 1 | MCC 9000 | 3 | 400 | 500K | 3" | | | |
| 2 | MCC 6000 | 3 | 225 | 4/0 | 2½" | | | |
| 3 | EF1 | 3 | 30 | 10 | 3/4" | | | |
| 4 | RADIATOR | 3 | 30 | 10 | 3/4" | | | |
| 5 | T XFMR | 2 | 40 | #8 | 3/4" | | | |
| 6-10 | SPACE | 3 | 100 | - | - | | | |

PANEL 2SDP

MFG. SQ.D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 100 SYM. A.I.C. (I.E.R.) 10,000

MOUNT SURFACE MAIN 90/2 C.B GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1,2 | Lights | 1 | 20 | #12 | 3/4" | | |
| 3 | Outlets | 1 | 20 | #12 | 3/4" | | |
| 4 | Day Tank | 1 | 20 | #12 | 3/4" | | |
| 5 | Battery Charger | 1 | 20 | #12 | 3/4" | | |
| 6,8 | Gen Heat | 2 | 40 | # 8 | 3/4" | | |
| 9-24 | Space | 1 | | | | | |

## FAN SCHEDULE

| MARK | LOCATION | DUTY | CFM | RPM | S.P. | H.P. | DRIVE | VOLTS | MFR MODEL # | SONES | CONTROL | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | SLUDGE DEW. GEN. BLDG. | EXHAUST | 16,250 | 860 | 1/2" | 3 | D.D. | 460/3 | AERONENT #42EGT20DDR | - | THERMO-STAT | WALL SLEEVE, SS INLET & DISCHARGE GUARD |

NOTES: 1. EF-1 SHALL BE CONTROLLED BY A HEAVY DUTY COOLING THERMOSTAT, HONEYWELL #T-831C 1053, MAGNETIC STARTER & 110V. XFMR BY ELECT CONTRACTOR.
2. FAN MOTOR SHALL BE TOTALLY ENCLOSED, NON-VENTILATED MOTOR.

## GENERAL NOTES:

1. RELOCATE THE 350 KW STANDBY GEN. FROM EXIST. MCC/GEN. ENCL. AT THE SCREW LIFT STATION TO THE NEW GEN. ENCLOSURE AT SLUDGE DENATERING BLDG. INCLUDING REMOTE RADIATOR, SILENCER & APPURTENANCES, DAY TANK, BATTERIES & RACK, BATTERY CHARGER.
2. FOR "EXHAUST FAN MOUNTING DETAIL" & "FAN SCHEDULE" SEE SHT. 111 OF 166.
3. SUPPORT PIPING & SILENCER ADEQUATELY USING HANGERS OR SUPPORTS AS SHOWN ON SHT. 128 OF 166 OR BY ENGINEER APPROVED DEVICES.

## ELECTRICAL NOTES:

1. Remove existing 400amp and 200 amp service disconnects, service laterals and load side feeds.
2. Provide new 600amp, 3 Pole, 3 Fuse S/N,NEMA 4 service disconnect to feed Generator #5 location as shown. Ground per NEC & local requirements label as service disconnect. Provide class RK-1 fuses.
3. Provide new 225amp, 3 pole, S/N, NEMA 4X circuit breaker service disconect to feed new ATS #4B. Breaker to be rated 30,000AIC at 480v. Ground per NEC & local requirements. Refeed MCC 8001 with phase, neutral, ground conductors shown.
4. Provide new 225amp, 3 Pole, S/N, NEMA 12 enclosed C/B, 18,000 AIC, on existing Generator #4 terminal box.
5. New ATS #4B per specifications. Wire generator start contact, etc. to generator controls. Note: Exercise function not required for this switch.
6. Coordinate revisions in laterals from FPC transformer with FPC. Limit outages, downtime, etc.
7. Size 1 combination C/B motor starter in NEMA 4X enclosure. Provide HOA,FFT, Red run pilot l[illegible] Wire auto position to generator, thermost[illegible] operation.

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RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED, DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3-16-92 | INCORPORATED E.O. 021 INTO SET AS REC. DRWG | RAP |

DESIGNED PME LT,SGD
DRAWN SGD BVB
CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:
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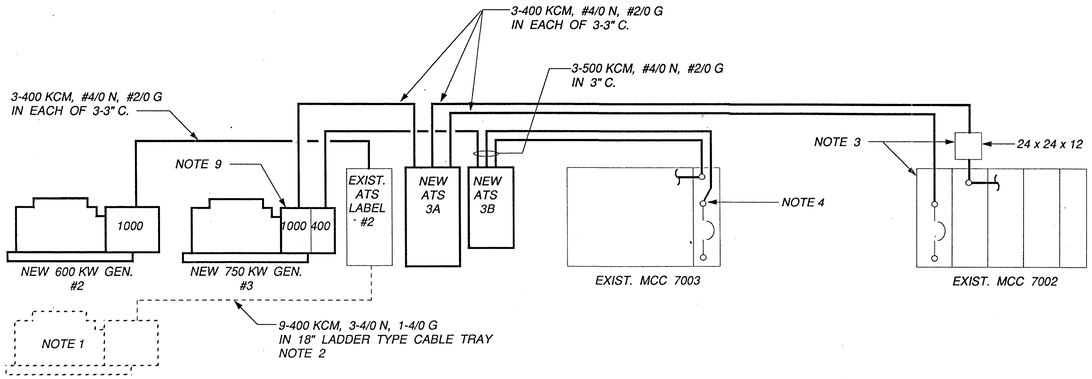
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
GENERATOR ENCLOSURE
MECHANICAL / ELECTRICAL
CLEARWATER, FLORIDA

DATE: FEB. 1991
SCALE: AS SHOWN
SHEET NO. III-B OF 166

PROJ. NO. 87054-2
FILE NO. 13084-B

92016




## RISER DIAGRAM - MCC/GENERATOR ENCLOSURE AT SCREW LIFT STATION

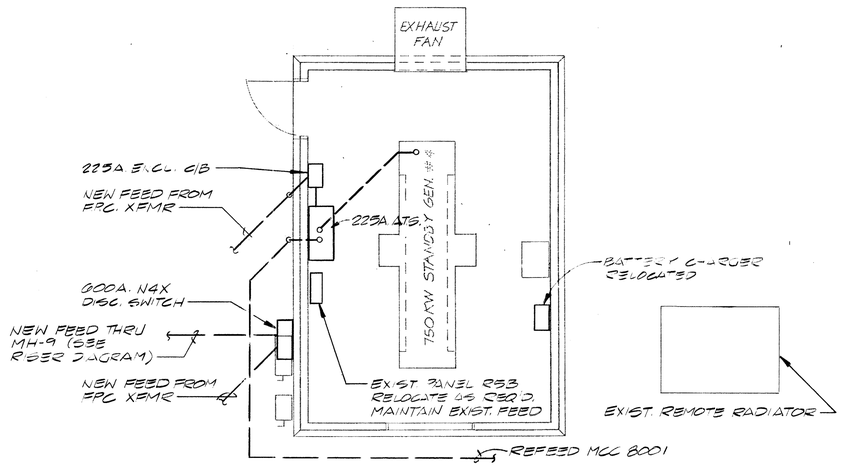
SCALE: NONE

### FAN SCHEDULE

| MARK | LOCATION | DUTY | CFM | RPM&P" | H.P | DRIVE | VOLTS | MFR MODEL# | SONES | CONTROL | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-2 | SCREW LS MCC/GEN BLD. | EXHAUST | 25,100 | 1160 | 1/2" | 5 | D.D. | 480/3 | AERONEFF 42RJ780FDA | - | T-STAT | WALL SLEEVE SS INLET & DISCHARGE GUARD |

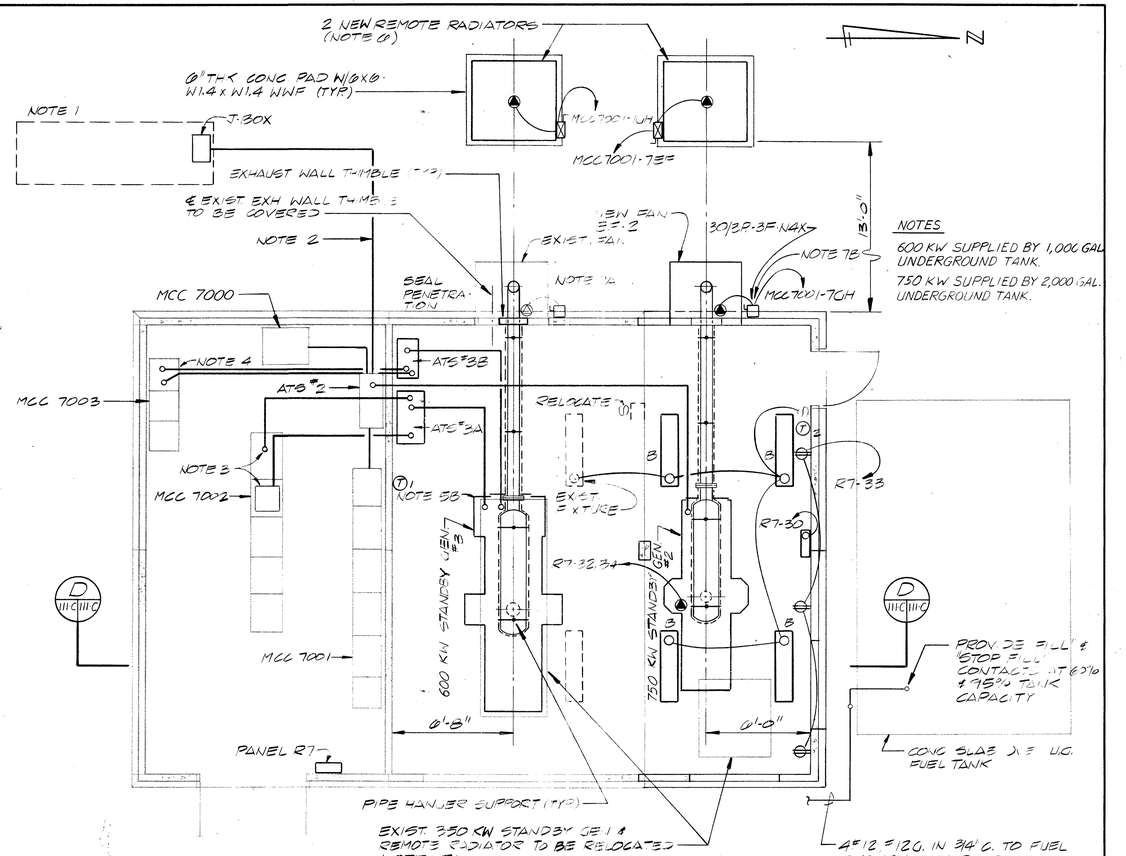
NOTES: 1. EF-2 SHALL BE CONTROLLED BY A HEAVY DUTY COOLING THERMOSTAT, HONEYWELL #T631C1053. MAGNETIC STARTER & 110 V. TRANSFORMER BY ELECT. CONTRACTOR.
2. FAN MOTOR SHALL BE TOTALLY ENCLOSED, NON-VENTILATED MOTOR.

N




## PLAN - GENERATOR ENCLOSURE AT FILTER BUILDING

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




## PLAN - MCC/GENERATOR ENCLOSURE AT SCREW LIFT STATION

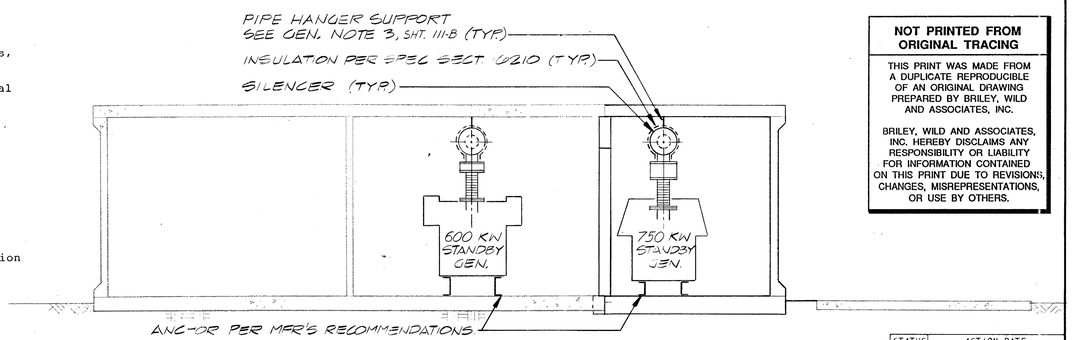
SCALE: 1/4" = 1'-0"

### ELECTRICAL NOTES:

1. Temporary location of new Generator #3. Set generator, provide temporary installation of fuel lines, coolant lines etc. and wiring required when generator is fully operative lock ATS in normal position. Disconnect existing 350KW generator leads, sensing equipment, etc. and reconnect 600KW unit wiring. Provide FPC Outage as required for normal life safety.
2. Temporary load side wiring to be:
   9-400 kcm (3 per phase)
   3-4/0 Neutral
   1-400 KCM ground
   from w/p J box at generator to existing ATS #2. Provide heater, battery, controls, etc. in EMT raceway to associated feeds.
3. Provide cable lugs on load side of existing MCC 7002 circuit breaker and on MCC 7002 horizontal bus bars. Provide junction box as required to facilitate terminations with a minimal outage. Refeed through new ATS #3A. Coordinate outage after new generator #3 is operative.
4. Provide cable lugs on load side of existing main circuit breaker, and on MCC 7003 bus bars. Refeed through new ATS #3B. Coordinate outage after new generator is operatable.
5A. Relocate existing remote radiator and controls for existing 350KW generator. Relocate existing 350KW generator to generator #5 location per site plan.
5B. Final generator #3 location. Provide all fuel, coolant, wiring, etc. such that generator relocation can be completed and operational within 36 hours of transfer. Coordinate any required outages with FPC.
6. 2-new remote radiators for generators #2 & 3. Provide circuits as shown. Power wiring to be 3# 10, #12G in 3/4"c. Furnish 2-NEMA 4x sixe 1 combination motor starters with HOA, FPT and Red Run Pilot Lights. Wire to radiator controls. Provide 1-30/3 T-N C/B in MCC 7001 unit 7EF.
7A. Exist fan HP may be increased. Revise thermal O.L.'s in MCC 7001 as required.
7B. Add size 1 motor starter in MCC 7001 unit 7GH for 5hp 480v. 30 motor. Wire controls to ATS and thermostat to run when generator or temperature call.
8. Add circuits to panel R7 as follows:

| | | | | |
|---|---|---|---|---|
| 30- Batt Charger | 20/1 | 2 | #12 | 3/4" |
| 32,34- Gen Heat | 40/2 | 2 | # 8 | 3/4" |
| 33- Outlets | 20/1 | 2 | #12 | 3/4" |

9. Provide solid state ground fault protection, neutral C/T, etc. on this breaker. Wire and test accordingly.




## SECTION D (III-C/III-C)

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

LEGEND

EXISTING

PROPOSED

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| STATUS | ACTION DATE |
|---|---|
| RO | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

RECORD DRAWING

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3-10-92 | INCORPORATED E.O. 021 INTO SET AS REC. DRWG. | RAP |

DESIGNED PME LTSG SGO BVB
DRAWN
CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:

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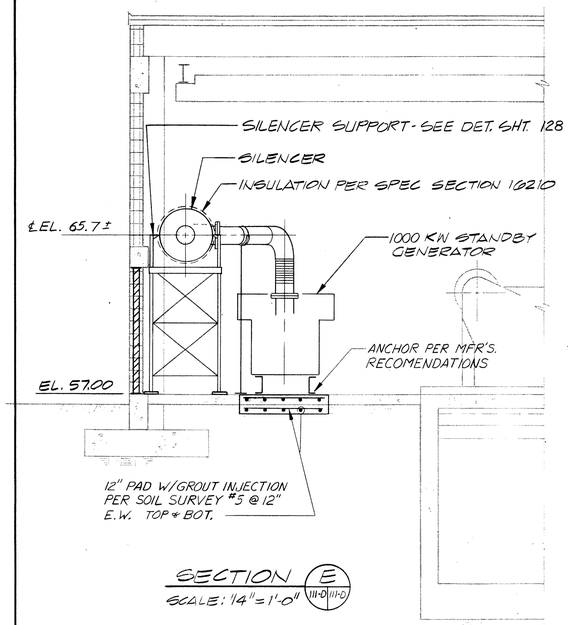
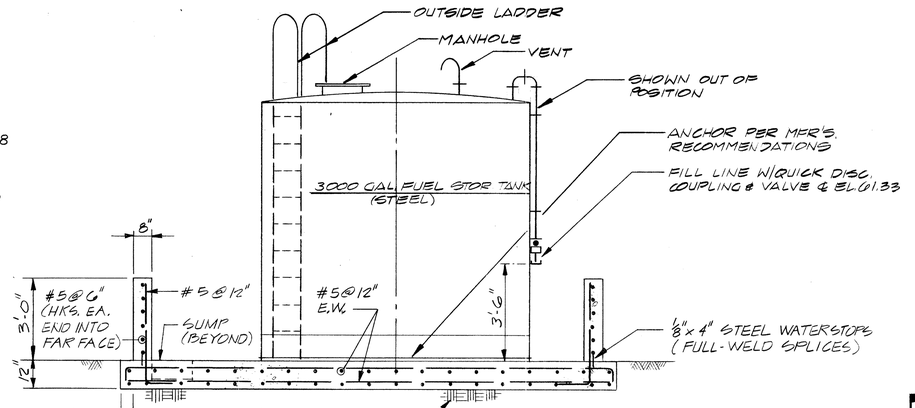
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
GENERATOR ENCLOSURES
MECHANICAL / ELECTRICAL MODIFICATIONS
CLEARWATER, FLORIDA

DATE: FEB. 1991
SCALE: AS SHOWN
SHEET NO. III-C OF 166
PROJ. NO. 87054-2
FILE NO. 13084-C

92016

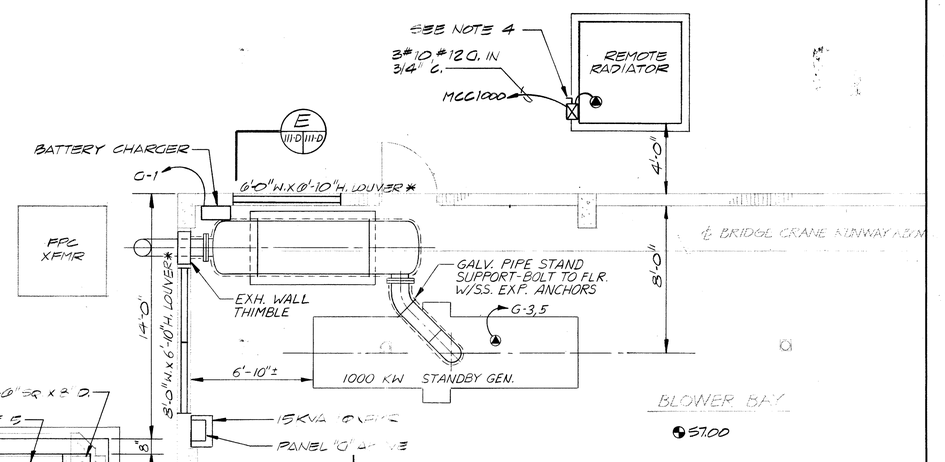


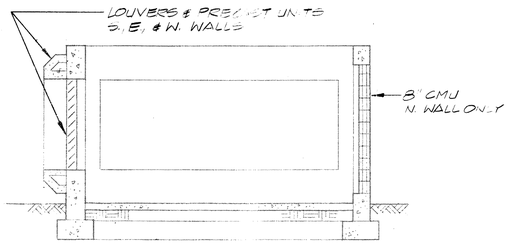

SECTION (E) (III-D/III-D)
SCALE: 1/4" = 1'-0"



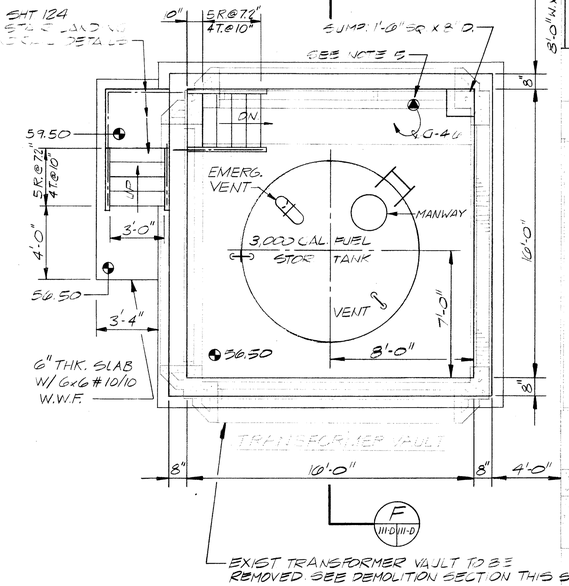

SECTION (F) (III-D/III-D)
SCALE: 3/8" = 1'-0"

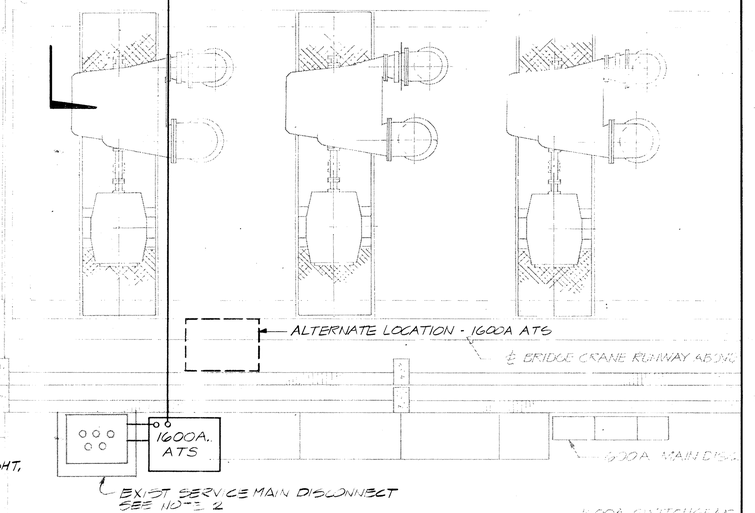
* REMOVE EXIST. 8" CMU WALL & INSTALL LOUVERS OF SIZE SHOWN. LOUVERS SHALL BE CONSTRUCTION SPECIALTIES MODEL 0137 STORMPROOF AL. LOUVERS OR EQUIV.




TRANSFORMER VAULT DEMOLITION SECTION
SCALE: 1/4" = 1'-0"




PARTIAL 1ST FLOOR PLAN-CONTROL BLDG.
SCALE: 1/4" = 1'-0"

PANEL G

MFG. Sq.D VOLTAGE 120/240 PHASE 1 WIRE 3

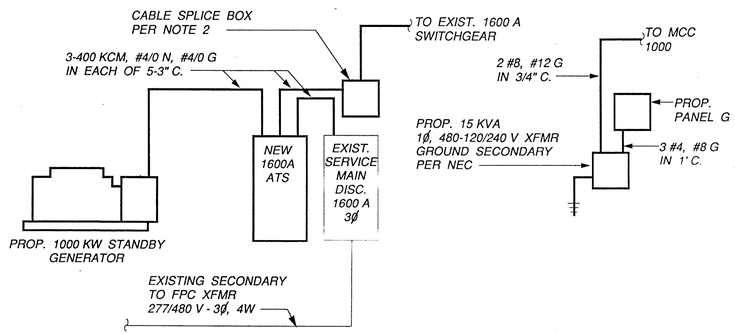
CAT. NQOD AMPS. 100 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface MAIN 90/2 C/B GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1 | Battery | 1 | 20 | #12 | 3/4" | | |
| 2 | SPARE | 1 | 20 | | | | |
| 3,5 | Gen Block Heat | 2 | 40 | #8 | 3/4" | | |
| 4,6 | Fuel Pumpset | 1 | 20 | #12 | 3/4" | | |
| 7-16 | Space | | | | | | |

**Notes**

1. Furnish and install new 1000KW Generator #1;1600 amp automatic transfer switch and all associated equipment per specifications. Provide minimum FPC outage and other down time. Coordinate with utility and owners' rep.
2. Refeed existing 1600 amp switchgear through a new 36"x36"x24" cable splice box. Splice feeds with approved compression splices with insulating covers and tape. Provide colored phase marking on each conductor.
3. Provide 1- 30/3 circuit breaker in existing MCC 1000 to feed remote radiator; 1-50/2 circuit breaker in existing MCC 1000 to feed new 15KVA transformer at generator location.
4. Provide NEMA size 2 circuit breaker combination starter in NEMA 4 enclosure to operate remote radiator fan. Include FFT, HOA, red run pilot light. Wire to operate when generator thermostat calls.
5. Fueling equipment per vendor. Wire pumps, controls, alarms, etc. per vendor requirements. Wire low level alarm to generator status panel.
6. All wiring this area to be Class 1, Division 1, Group D, and per NEC articles 501 and 514.




SERVICE RISER DIAGRAM
SCALE: NONE

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**NOT PRINTED FROM ORIGINAL TRACING**

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LEGEND

RECORD DRAWING — EXISTING — PROPOSED

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3-10-92 | INCORPORATED E.O. 021 INTO SET AS REC. DRWG | RAP |

DESIGNED PME SGO
DRAWN BVB SGO
CHECKED

SUBMITTED: BRILEY, WILD & ASSOCIATES
APPROVED:

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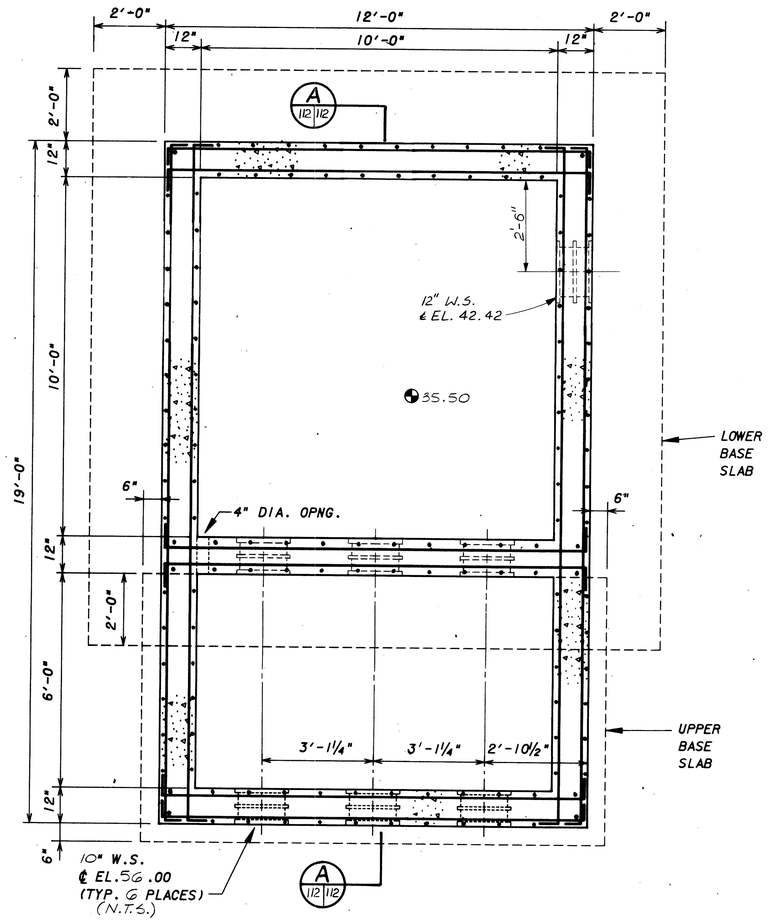
Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton - Orlando, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
GENERATOR & FUEL STORAGE TANK ADDITION AT CONTROL BUILDING
CLEARWATER, FLORIDA

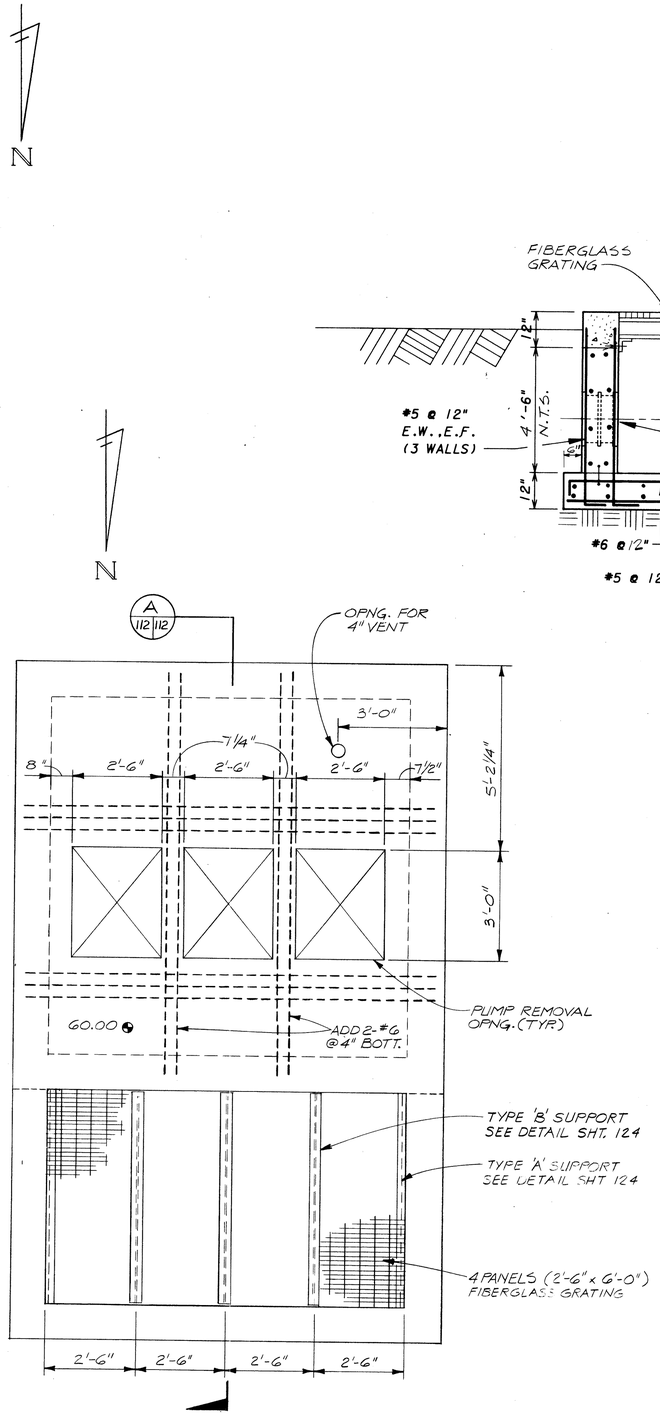
DATE: FEB. 1991
SCALE: AS SHOWN
SHEET NO. III-D OF 166
PROJ. NO. 87054-2
FILE NO. 13084-D

92016



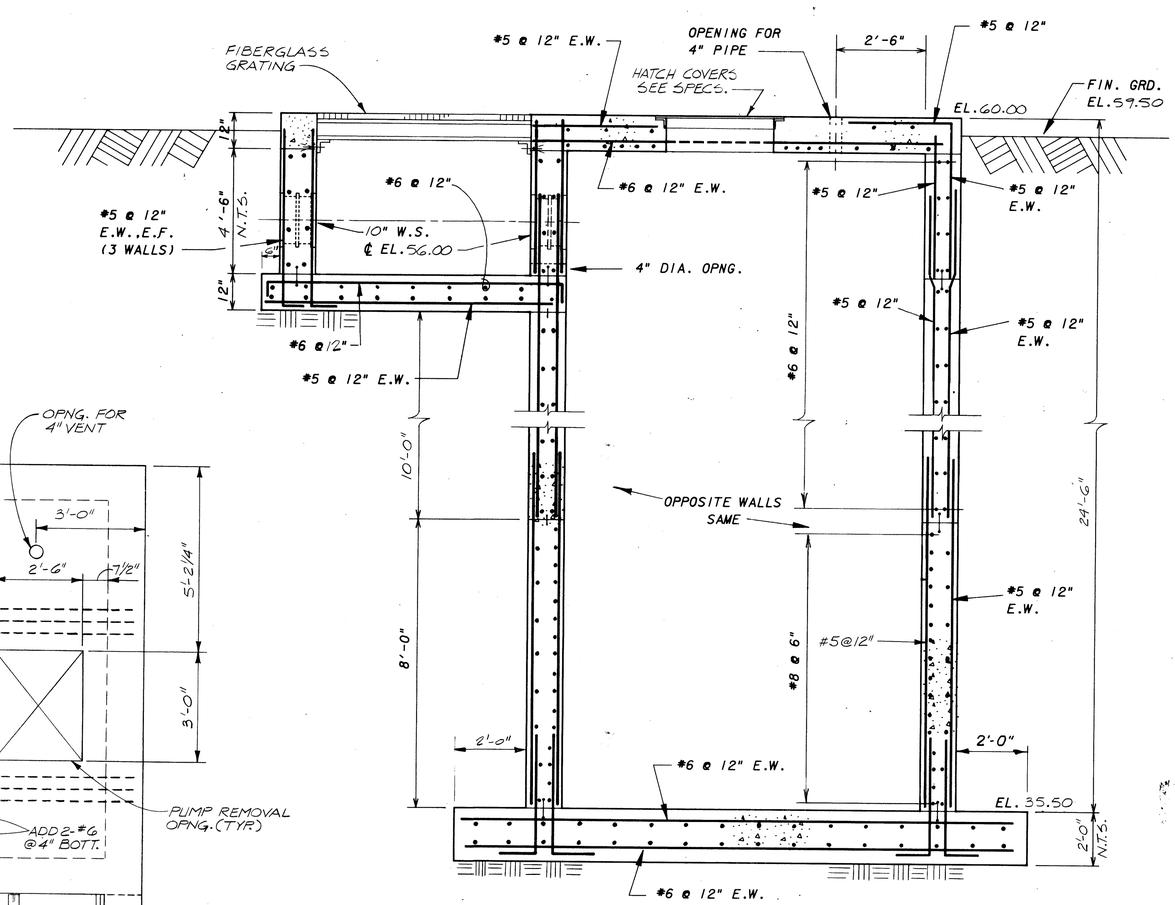

PLAN BELOW GRADE

SCALE: ½" = 1'-0"




PLAN ABOVE GRADE

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




SECTION A 112|112

SCALE: ½" = 1'-0"

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# RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|

DESIGNED JTS
DRAWN KTB
CHECKED SRS

ENGINEER OF RECORD: _____

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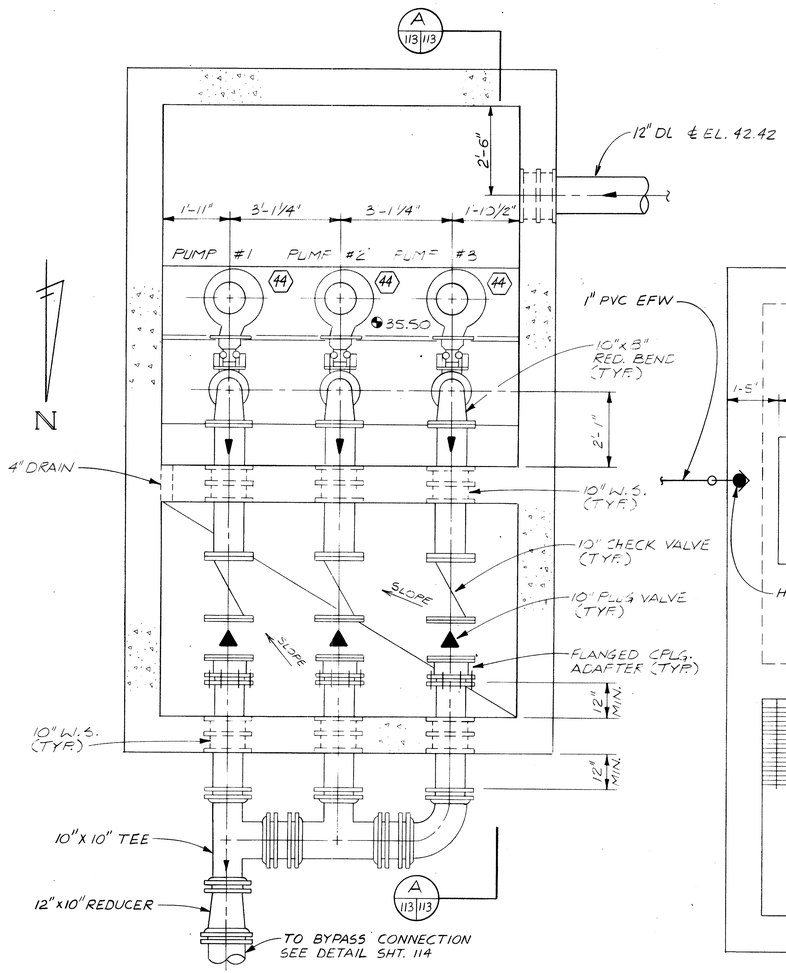
CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
IN-PLANT PUMP STATION NO. 1 - STRUCTURAL
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 112 OF 166

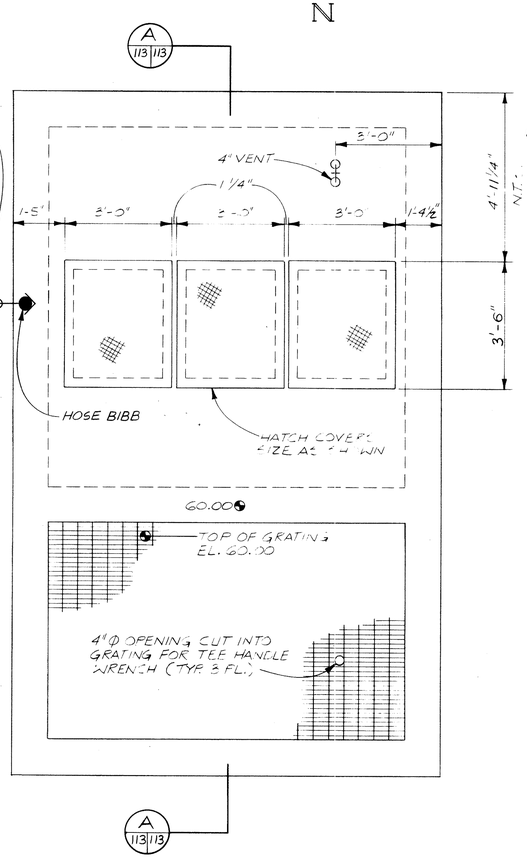
PROJ. NO. 87054-2
FILE NO. 13085

92016



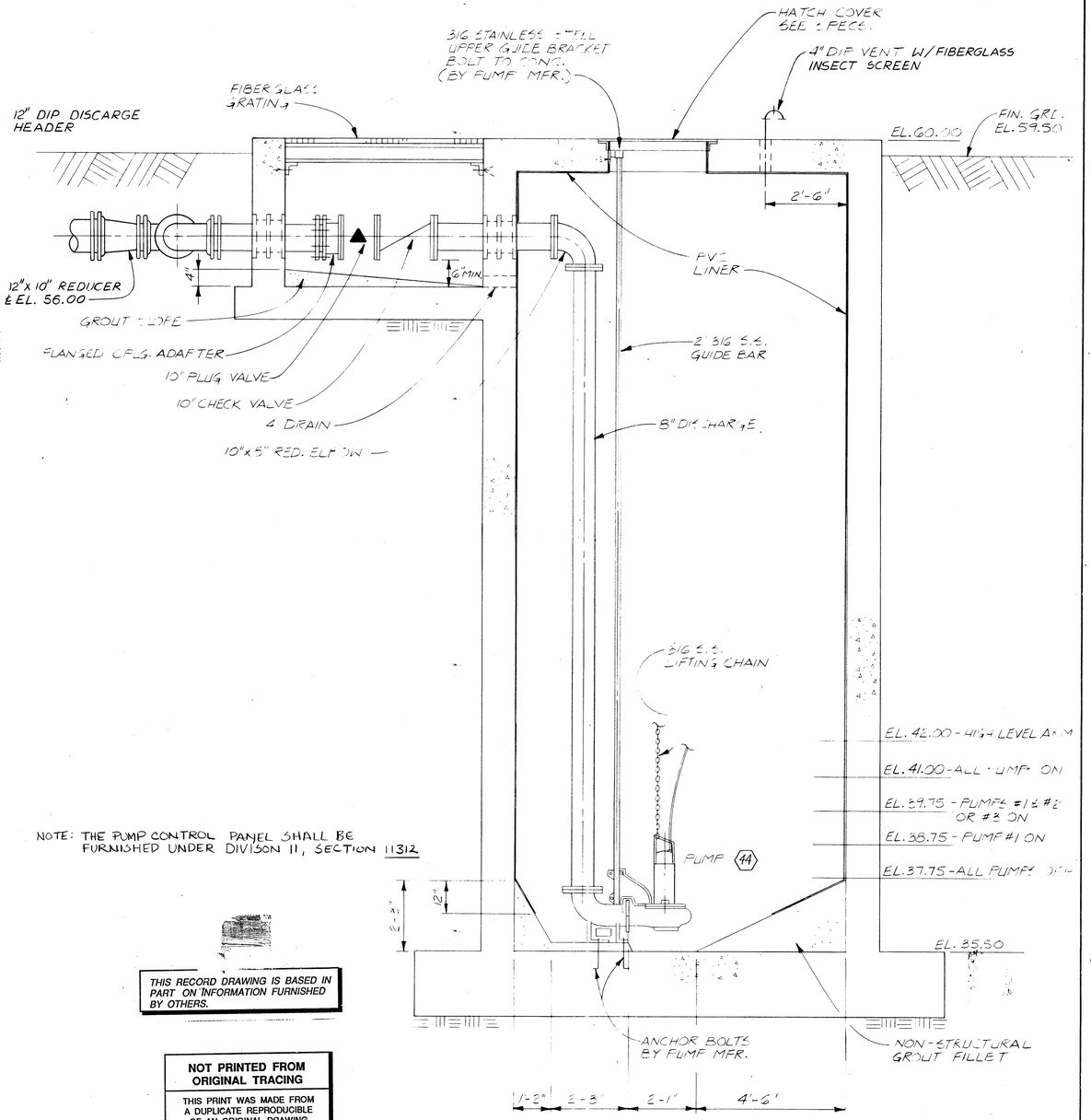

PLAN BELOW GRADE

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




PLAN ABOVE GRADE

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




SECTION

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

A 113|113

NOTE: THE PUMP CONTROL PANEL SHALL BE FURNISHED UNDER DIVISON 11, SECTION 11312

THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

**NOT PRINTED FROM ORIGINAL TRACING**

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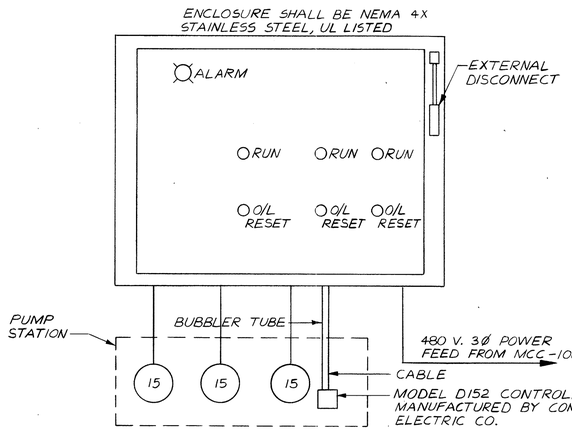
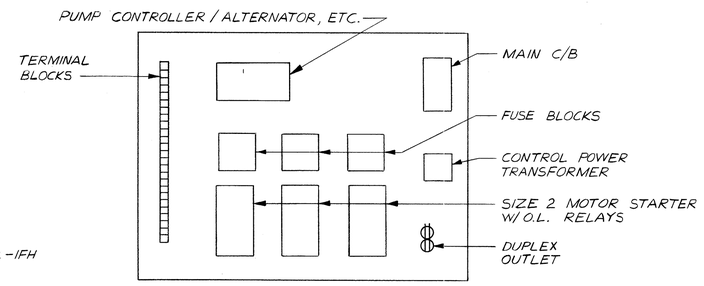



CONTROL PANEL - EXTERIOR

N.T.S.




CONTROL PANEL - INTERIOR

N.T.S.

NOTES:

1. SEE SECTION 09884 - PLASTIC LINING FOR PUMP STATION LINER MATERIAL.

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR EST. MAT. NO. ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 5-31-89 | REVISED PER ADDENDUM # 2 | SGO |

DESIGNED SRS | DRAWN KTB | CHECKED SRS

ENGINEER OF RECORD:

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

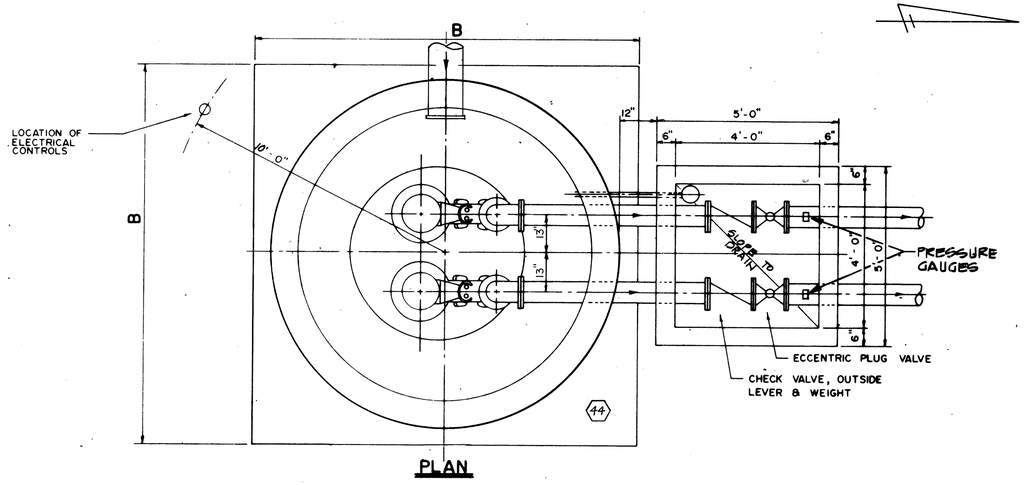
IN-PLANT PUMP STATION NO. 1 - MECHANICAL

CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 113 OF 166

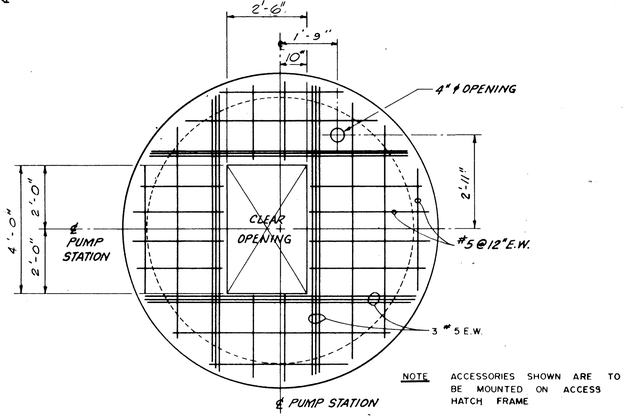
PROJ. NO. 87054-2 | FILE NO. 13086

92016




PLAN

N




NOTE ACCESSORIES SHOWN ARE TO BE MOUNTED ON ACCESS HATCH FRAME

TOP SLAB

HIGH LEVEL ALARM EL. 46.00

LAG PUMP ON EL. 45.00

LEAD PUMP ON EL. 44.00

ALL PUMPS OFF EL. 42.00

LOW LEVEL ALARM EL. 41.00

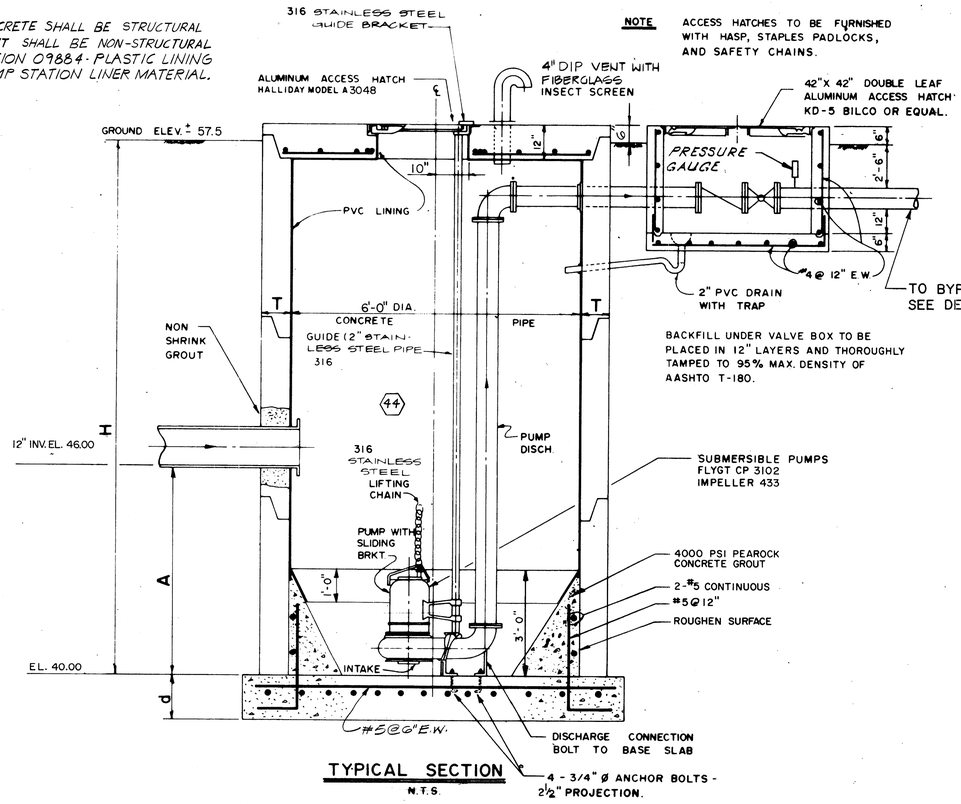
FLOOR EL. 40.00

PUMP OPERATING SEQUENCE

N.T.S.

| STATION | INFL INV | A DEPTH | PUMP STA DIA | PUMP CAP G P M | T D H FT | MAX R P M | MIN HP | NO PUMPS | INFL DIA | PUMP DISCH | B | H | T | BASE SLAB SCHEDULE d | BASE SLAB SCHEDULE REINF STEEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IN-PLANT No. 2 | 12"=46.00 | 6'-0" | 6'-0" | 300 | 27 | 1700 | 5 | 2 | 12" | 6" | 9' | 17.50" | 7" | 18" | #5@12" E.W.(TOP) |
| | | | | | | | | | | | | | | | |

NOTES:
1. ALL CONCRETE SHALL BE STRUCTURAL
2. ALL GROUT SHALL BE NON-STRUCTURAL
3. SEE SECTION 09884-PLASTIC LINING FOR PUMP STATION LINER MATERIAL.

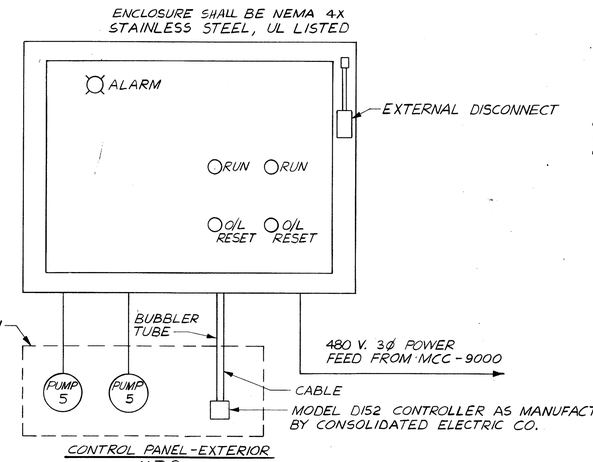



NOTE ACCESS HATCHES TO BE FURNISHED WITH HASP, STAPLES PADLOCKS, AND SAFETY CHAINS.

BACKFILL UNDER VALVE BOX TO BE PLACED IN 12" LAYERS AND THOROUGHLY TAMPED TO 95% MAX. DENSITY OF AASHTO T-180.

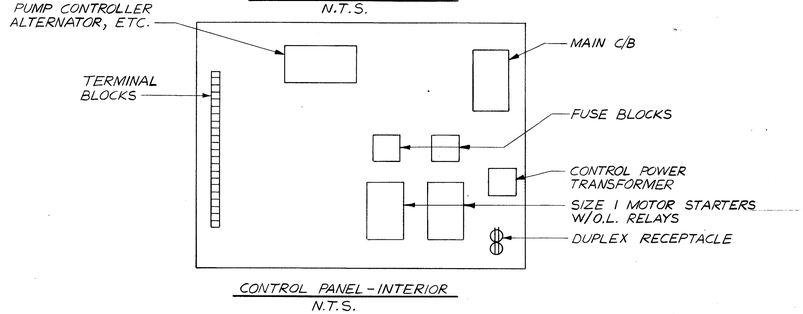
TYPICAL SECTION

N.T.S.




CONTROL PANEL-EXTERIOR

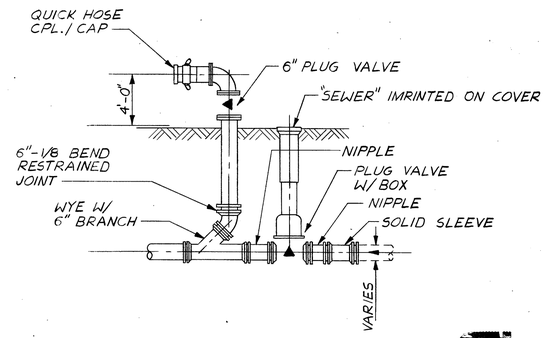
N.T.S.




CONTROL PANEL-INTERIOR

N.T.S.

NOTE: THE PUMP CONTROL PANEL SHALL BE FURNISHED UNDER DIVISION 11 SECTION 11312




BYPASS CONNECTION DETAIL

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**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 5-31-89 | REVISED PER ADDENDUM #2 | SGO |

DESIGNED SRS UTS
DRAWN RAP SGO
CHECKED SRS

SUBMITTED: BRILEY, WILD & ASSOCIATES

APPROVED:

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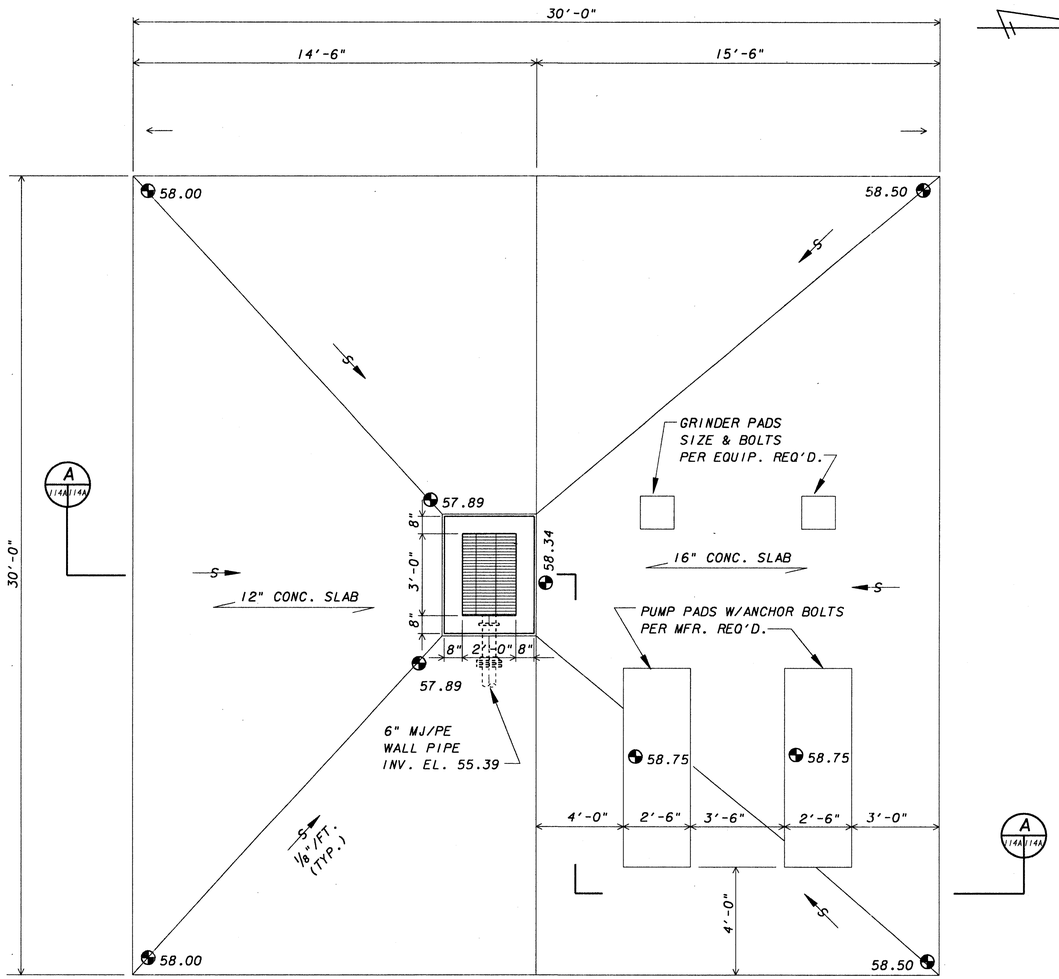
Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
IN-PLANT PUMP STATION NO. 2
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 114 OF 166
PROJ. NO. 87054-2
FILE NO. 13087

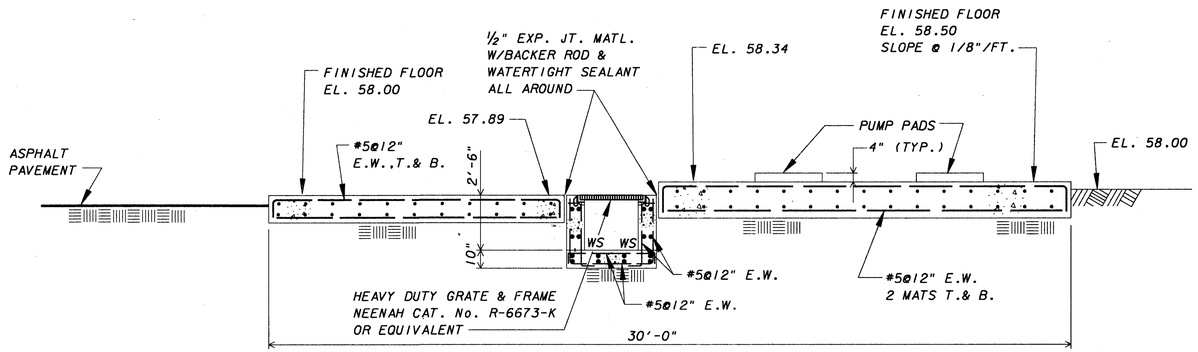
92016




NOTE: SIZE EQUIPMENT PADS TO SUIT EQUIPMENT SELECTED.

## FLOOR & FOUNDATION PLAN

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




## SECTION A (1/14A/14A)

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

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**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 2-92 | INCORPORATED E.O. 23 (RECORD DRAWING) | RRW |

ENGINEER:

ACCEPTED:

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

**SEPTAGE HANDLING STRUCTURE-STRUCTURAL**

CLEARWATER, FLORIDA

| | | | |
|---|---|---|---|
| DESIGNED | RCK | PROJ. NO. | 87054-2 |
| DRAWN | KTB | DATE: | MAY 1991 |
| CHECKED | JTS | SCALE: | AS SHOWN |

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

SHEET NO. 114-A OF 166

FILE NO. 13087-A

BRILEY, WILD AND ASSOCIATES

92016

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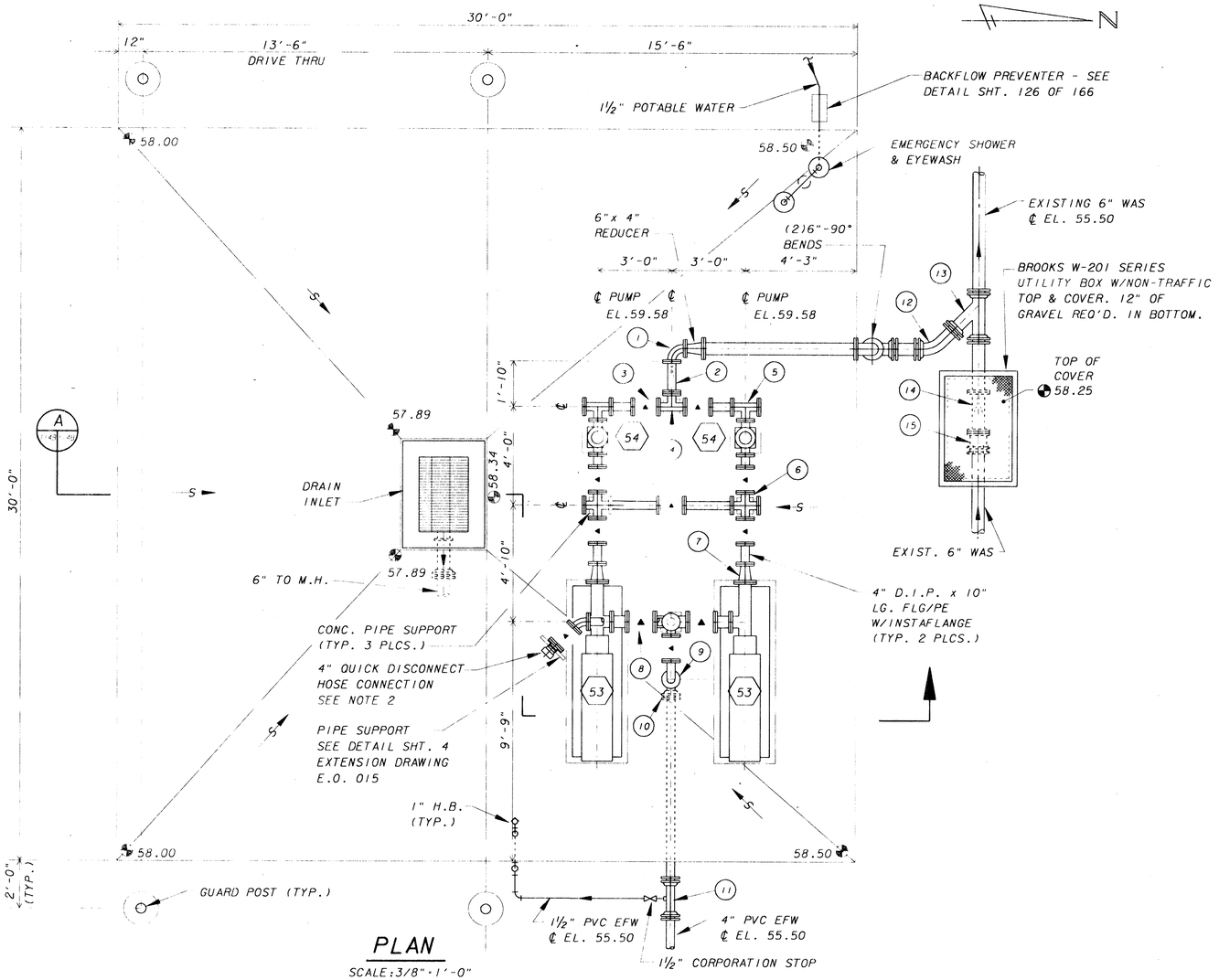



## PLAN

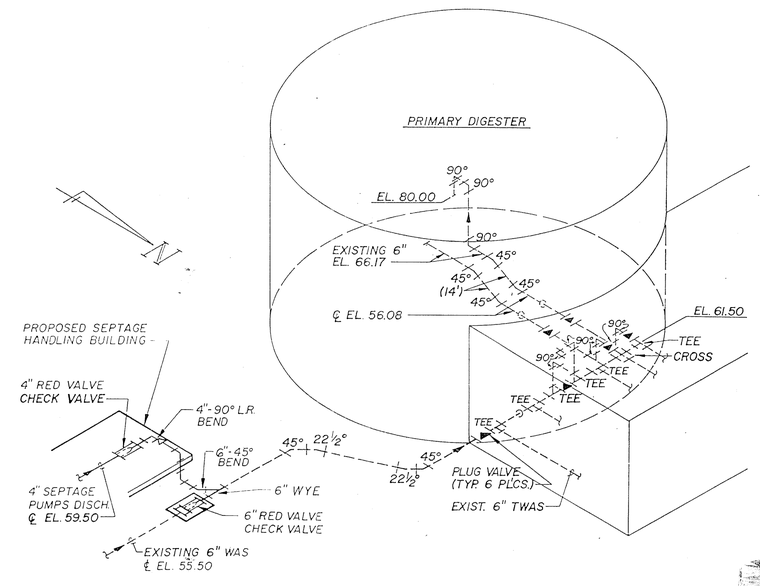
SCALE: 3/8"-1'-0"

| KEY TO FITTINGS | | | | | |
|---|---|---|---|---|---|
| No. | DESCRIPTION | QTY. | No. | DESCRIPTION | QTY. |
| 1 | 4"-90° L.R. BEND | 1 | 9 | 4"-90° FLG. BEND | 1 |
| 2 | 4" RED VALVE CHECK VALVE | 1 | 10 | 4"-90° M.J. BEND | 1 |
| 3 | 4" PLUG VALVE ** | 9 | 11 | 4"x4"x1½" M.J. TAPPED TEE | 1 |
| 4 | 4"x4"x4" TEE | 2 | 12 | 6"-45° M.J. - P.E. BEND | 1 |
| 5 | 4"x4"x4" TEE W/BLIND FLANGE | 3 | 13 | 6"x6" M.J. WYE | 1 |
| 6 | 4"x4" CROSS W/BLIND FLANGE | 2 | 14 | 6" RED VALVE CHECK VALVE | 1 |
| 7 | 6"x4" REDUCER | 2 | 15 | 6" FLANGED CPLG. ADAPTER | 1 |
| 8 | 6" PLUG VALVE ** | 2 | 16 | 6"x6"x4" BASE TEE | 1 |

** SEE NOTE 1.

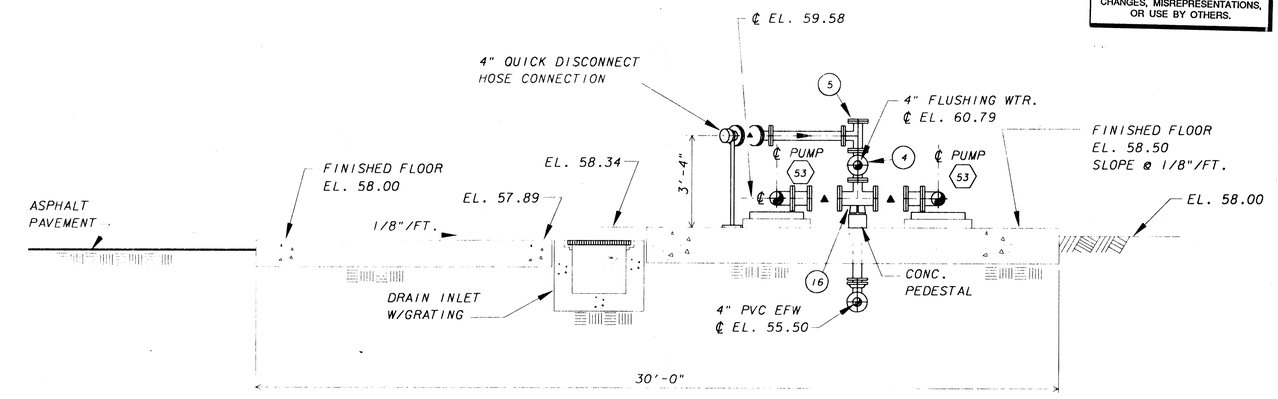
NOTES:

1. ALL PLUG VALVES SHALL BE DEZURIK 100% AREA VALVES OR EQUIVALENT.
2. QUICK DISCONNECT SHALL BE A 4" S.S. SOCKET WITH LOCKING CAMS.
3. PROPOSED 4" & 6" PIPING; ABOVE GROUND SHALL BE DUCTILE IRON. BELOW GROUND SHALL BE PVC C-900 WITH DUCTILE IRON FITTINGS.




## SEPTAGE PIPING ISOMETRIC

SCALE: NONE




## SECTION A

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

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RECORD DRAWING

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 2-92 | INCORPORATED E.O. 23 (RECORD DRAWING) | RRW |

ENGINEER:

ACCEPTED:

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

**SEPTAGE HANDLING STRUCTURE-MECHANICAL**

CLEARWATER, FLORIDA

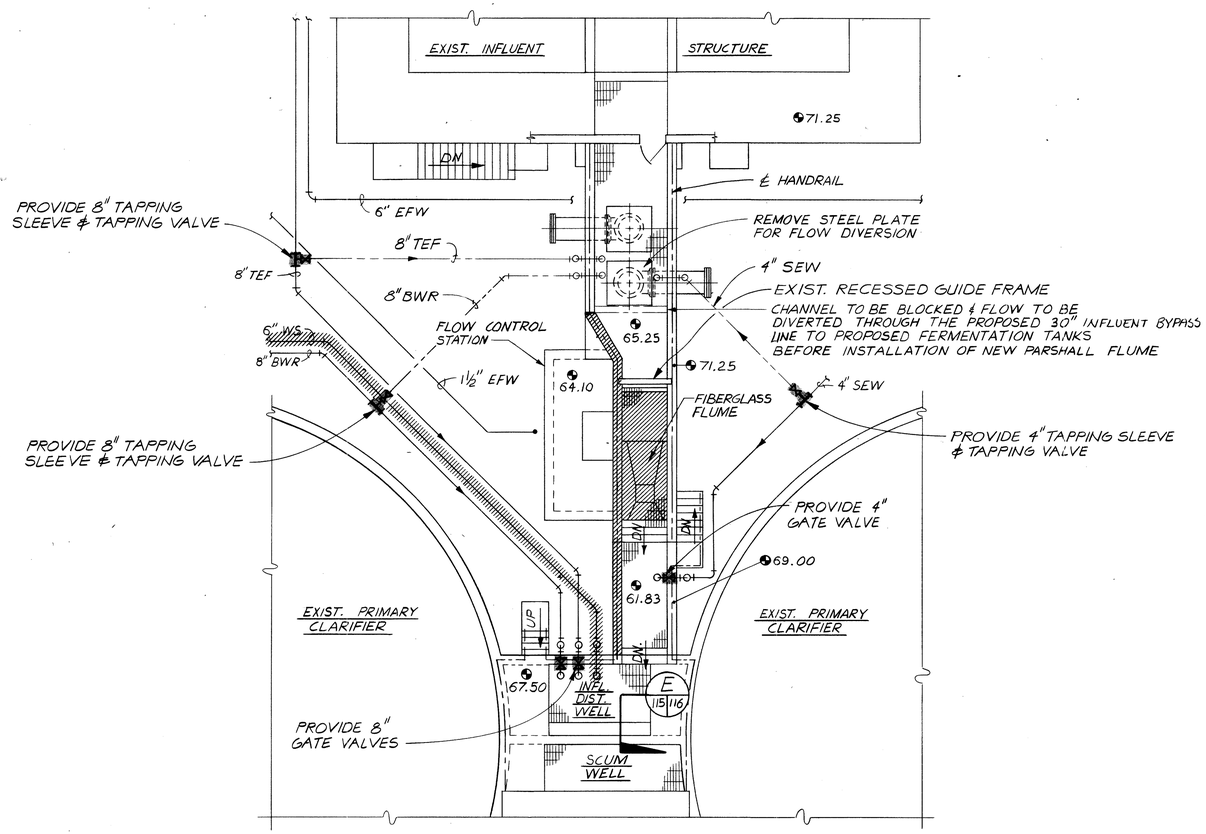
| | | | |
|---|---|---|---|
| DESIGNED | RAE | PROJ. NO. | 87054-2 |
| DRAWN | KTB | DATE: | MAY 1991 |
| CHECKED | RAE | SCALE: | AS SHOWN |

| STA. | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| SHEET NO. 114-B | OF 166 |
| FILE NO. 13087-B | |

BRILEY, WILD AND ASSOCIATES

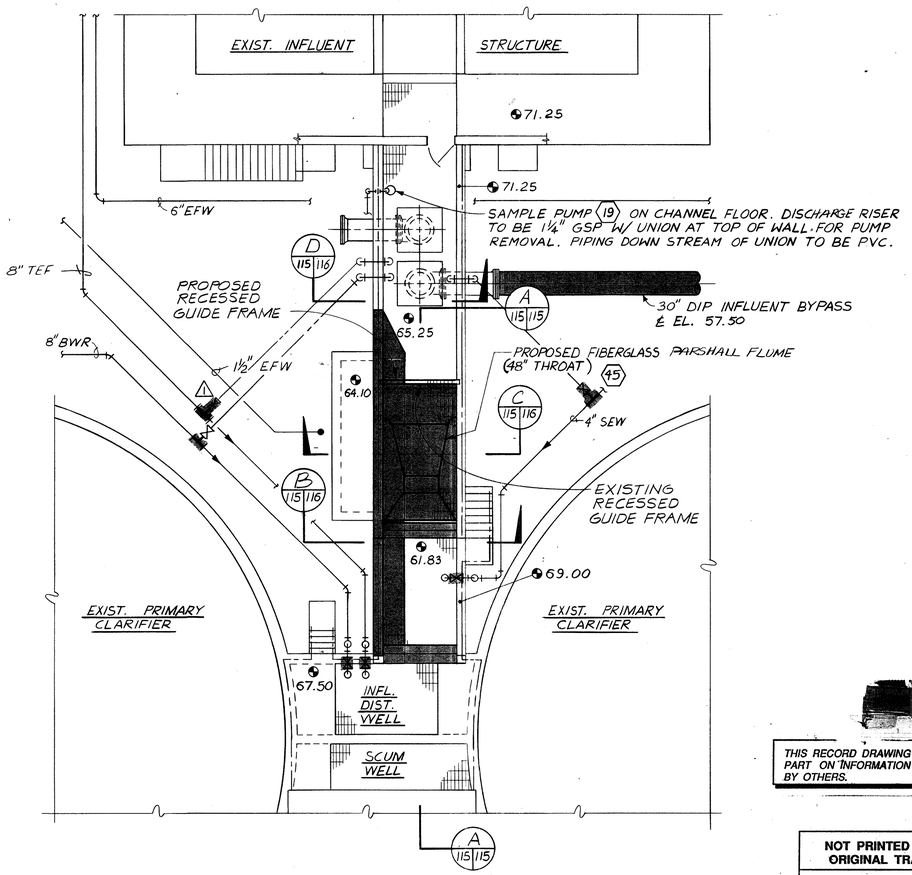
92016

PRF=QS1: [40,154]154004. DATE=28-FEB-92 TIME=12:02 12

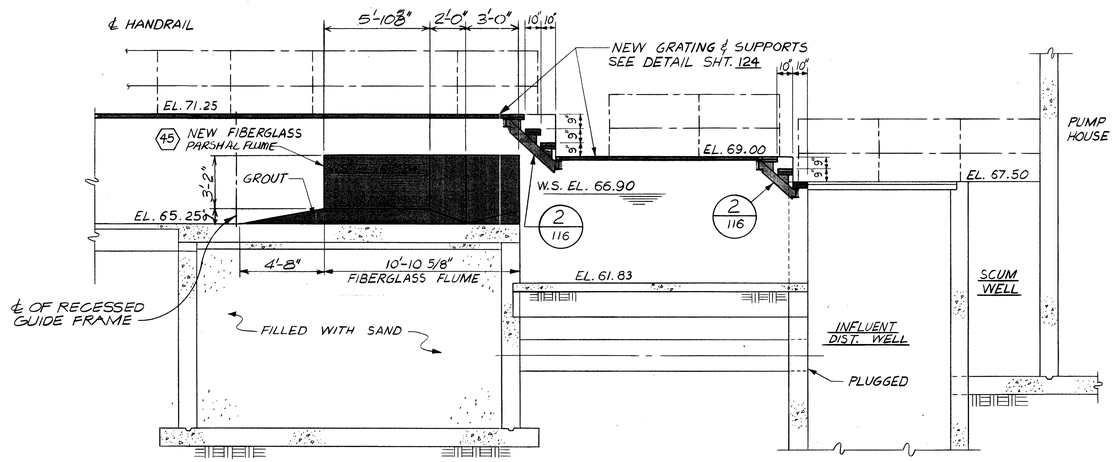



EXISTING PLAN – REMOVALS ℄ TEMPORARY CONNECTIONS
SCALE: 1/8" = 1'-0"

NOTE: ALL TEMPORARY CONNECTIONS SHALL BE LEFT IN PLACE AFTER CONSTRUCTION.




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




SECTION A 115|115
SCALE: 1/4" = 1'-0"

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LEGEND

- EXISTING
- PROPOSED
- REMOVALS
- TEMPORARY

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

RECORD DRAWING

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 7-18-91 | RECORD DRAWING | WLS |

DESIGNED YCL
DRAWN RAP
CHECKED SRS
ENGINEER OF RECORD:

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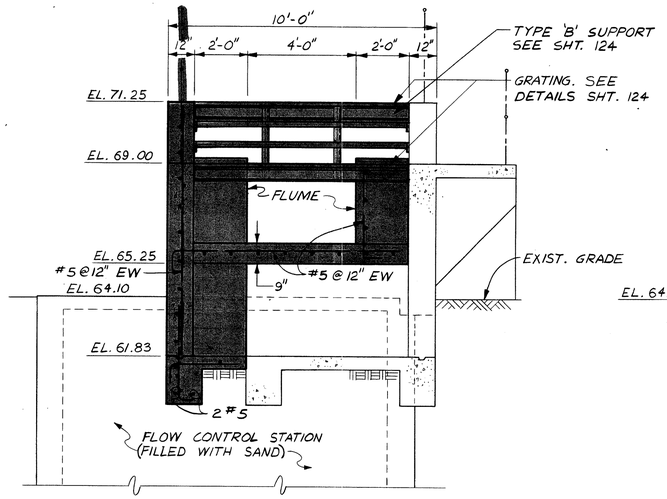
*Ormond Beach - Clearwater - Bradenton, Florida*

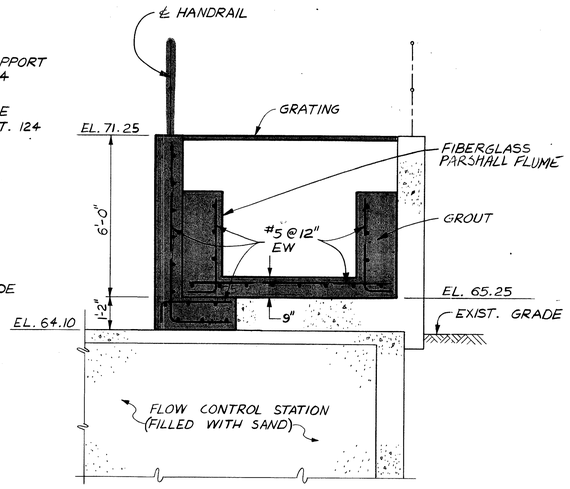
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING INFLUENT CHANNEL MODIFICATIONS- PLANS & SECTION**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 115 OF 166
PROJ. NO. 87054-2
FILE NO. 13088

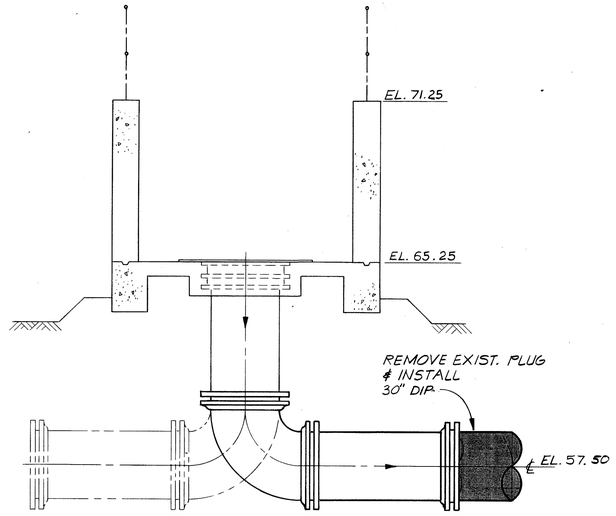
92016



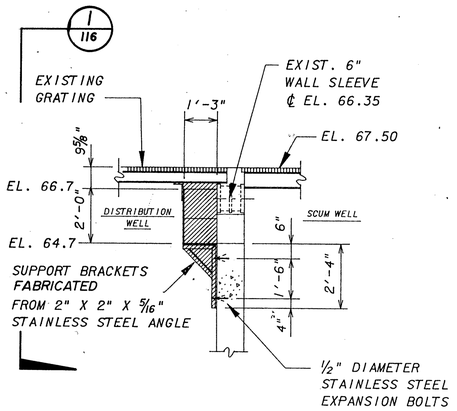

SECTION (B) 115|116
SCALE: 3/8" = 1'-0"



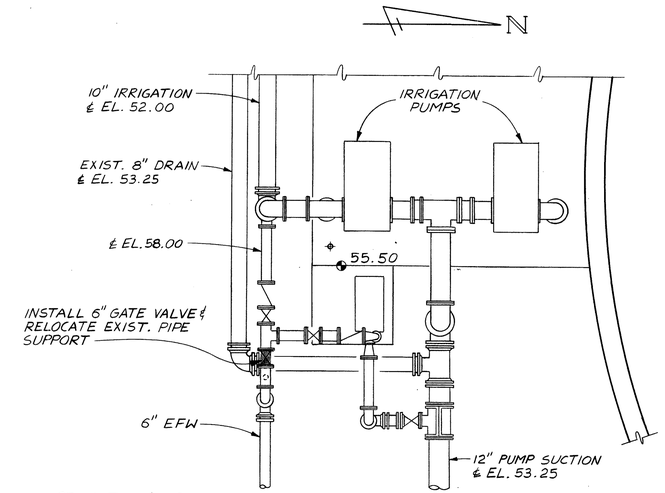

SECTION (C) 115|116
SCALE: 3/8" = 1'-0"




SECTION (D) 115|116
SCALE: 3/8" = 1'-0"

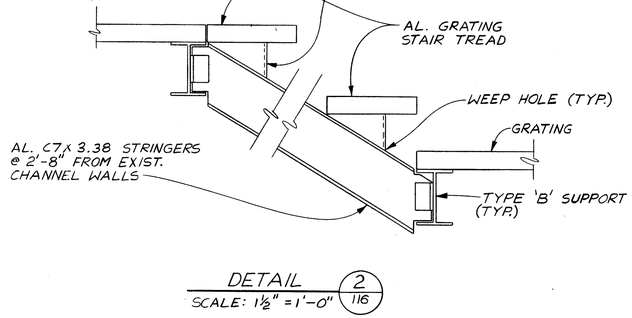



SECTION (E) 115|116
SCALE: 3/8" = 1'-0"

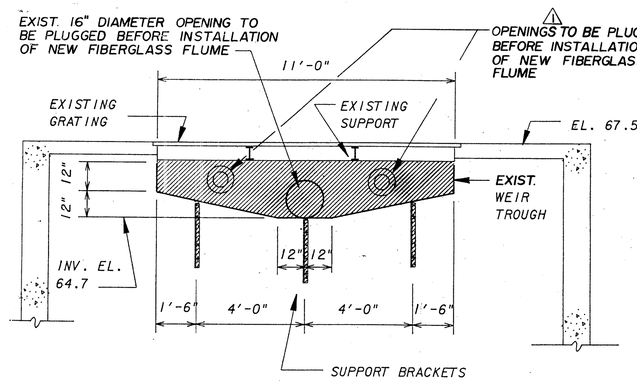



NOTE: REFER TO SHT. 119 FOR LOCATION

DETAIL (3) 116
SCALE: 1/4" = 1'-0"




DETAIL (2) 116
SCALE: 1½" = 1'-0"




DETAIL (1) 116
SCALE: 3/8" = 1'-0"

LEGEND

- EXISTING
- PROPOSED
- REMOVALS

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| 1 | 7-18-91 | RECORD DRAWING | WLS |

DESIGNED YCL JTS | DRAWN R.A.P. | CHECKED SRS

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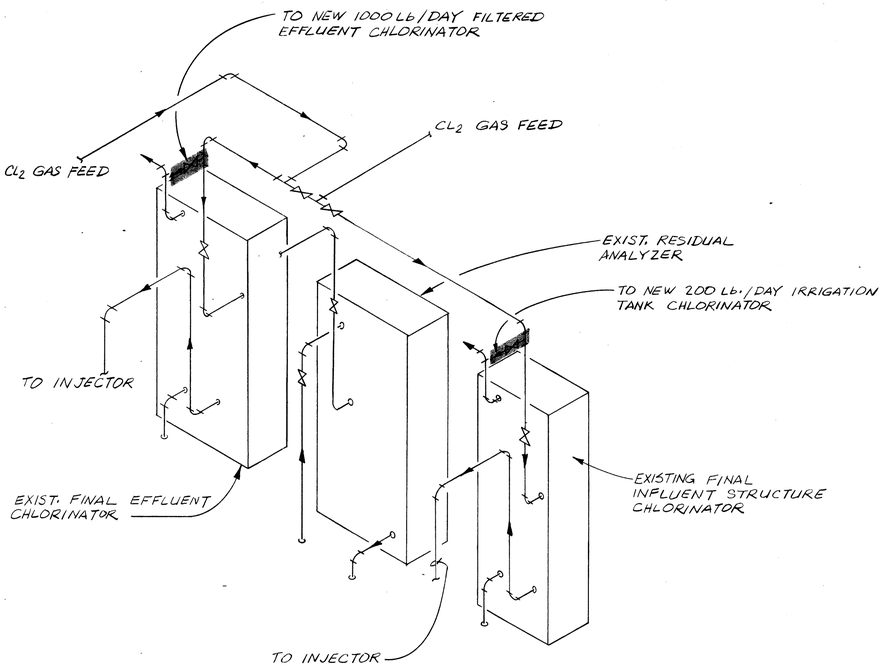
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING INFLUENT CHANNEL MODIFICATIONS-SECTIONS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 116 OF 166
PROJ. NO. 87054-2
FILE NO. 13089

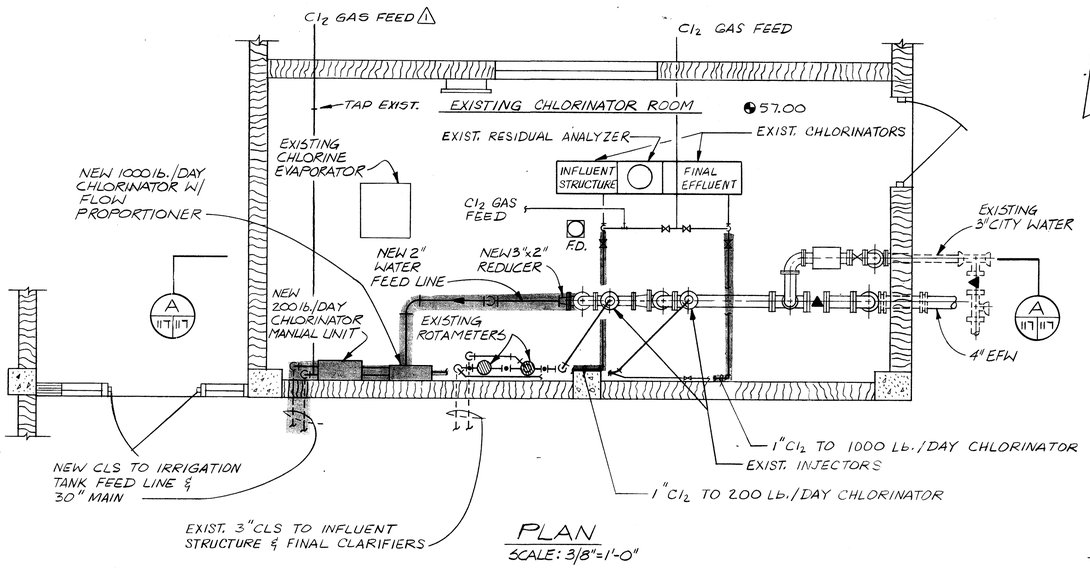
92016




CHLORINE PIPING ISOMETRIC
N.T.S.

NOTES:

1. RELOCATE EXISTING SOLUTION LINES AS REQ'D FOR INSTALLATION OF NEW CHLORINATORS.
2. FLOW PROPORTIONAL WALL MOUNTED CHLORINATOR RECEIVES SIGNAL FROM FILTER FLOW METER.
3. PLANS SHOWN ARE APPROXIMATE; CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY SUPPLIES TO MAKE AN ACCEPTABLE INSTALLATION.
4. GAS FEED TO FLOW PROPORTIONAL WALL MOUNTED CHLORINATOR SHALL BE CONNECTED TO FINAL EFFLUENT CHLORINATOR GAS FEED LINE.
5. GAS FEED TO MANUAL WALL MOUNTED CHLORINATOR SHALL BE CONNECTED TO INFLUENT STRUCTURE CHLORINATOR GAS FEED LINE.




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

N

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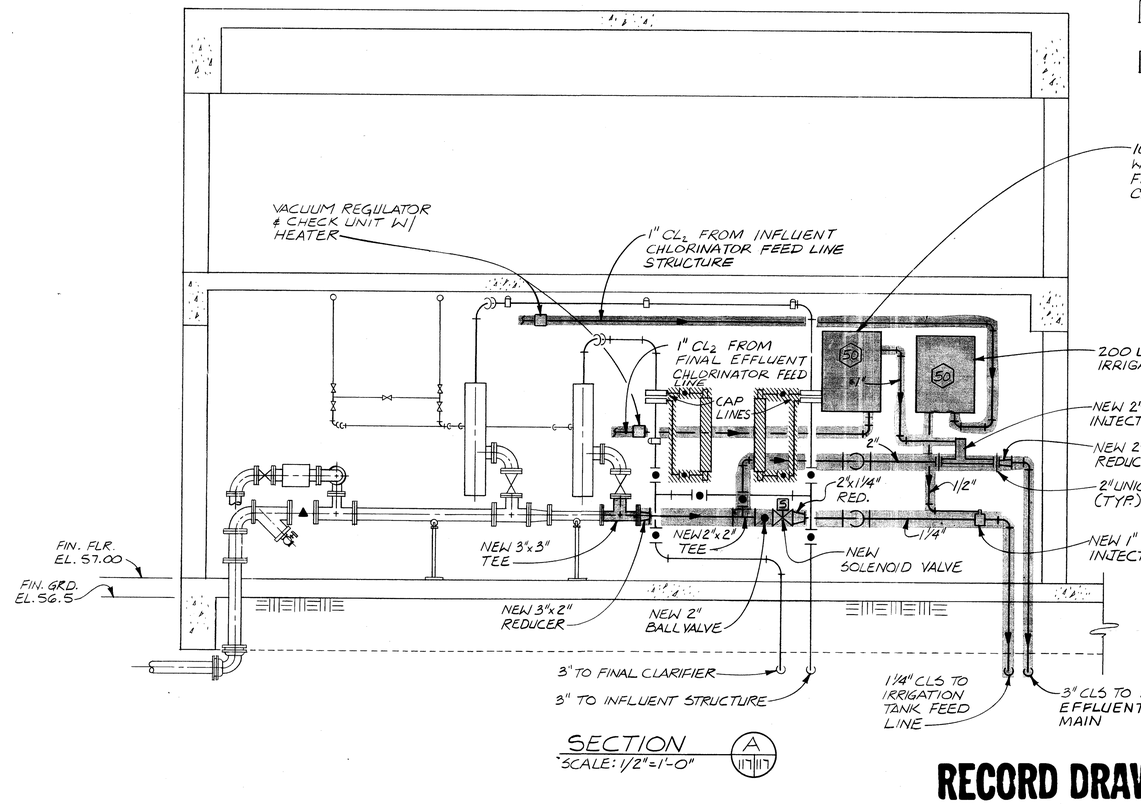
LEGEND

- REMOVAL
- EXISTING TO REMAIN
- PROPOSED




SECTION A 117 117
SCALE: 1/2"=1'-0"

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

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|---|---|
| P | PRELIMINARY |
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**RECORD DRAWING**

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DESIGNED MD | DRAWN KTB | CHECKED YCL

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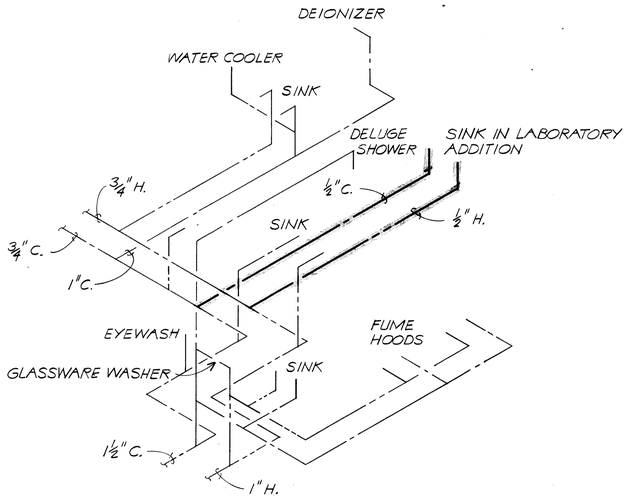
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING CONTROL BUILDING
ADDITIONS TO CHLORINATION EQUIPMENT
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 117 OF 166

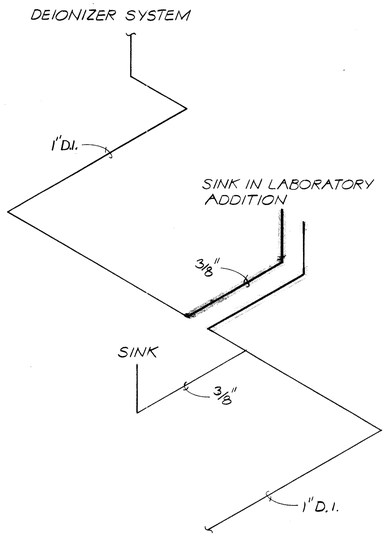
PROJ. NO. 87054-2
FILE NO. 13090

92016



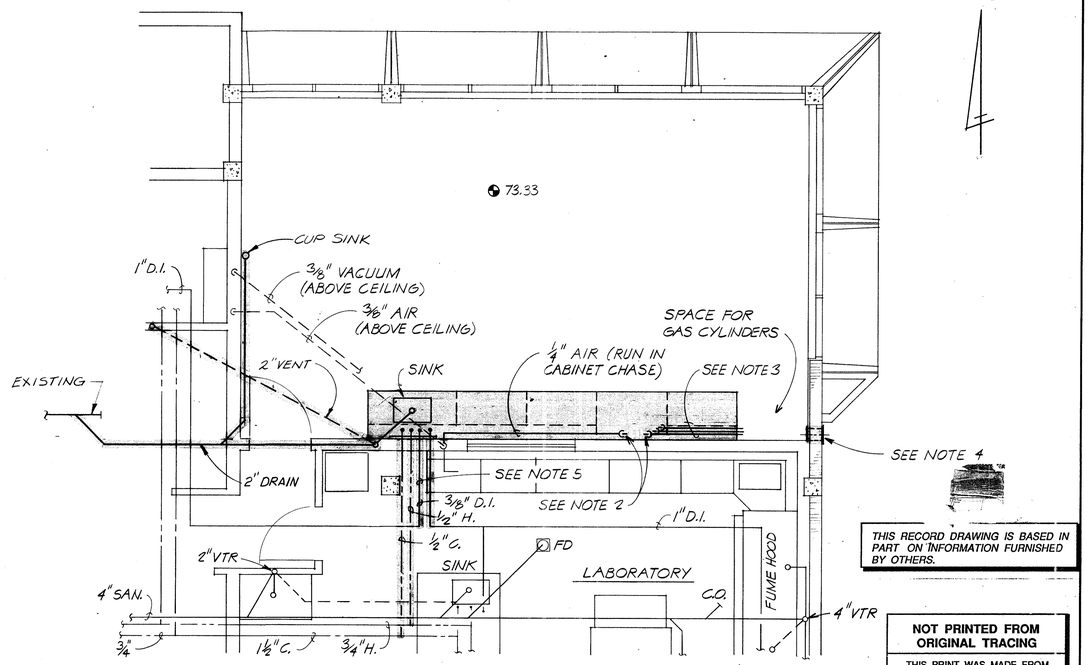

COLD & HOT WATER RISER

SCALE: NONE




DEIONIZED WATER RISER △

SCALE: NONE




PARTIAL SECOND FLOOR PLAN △

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

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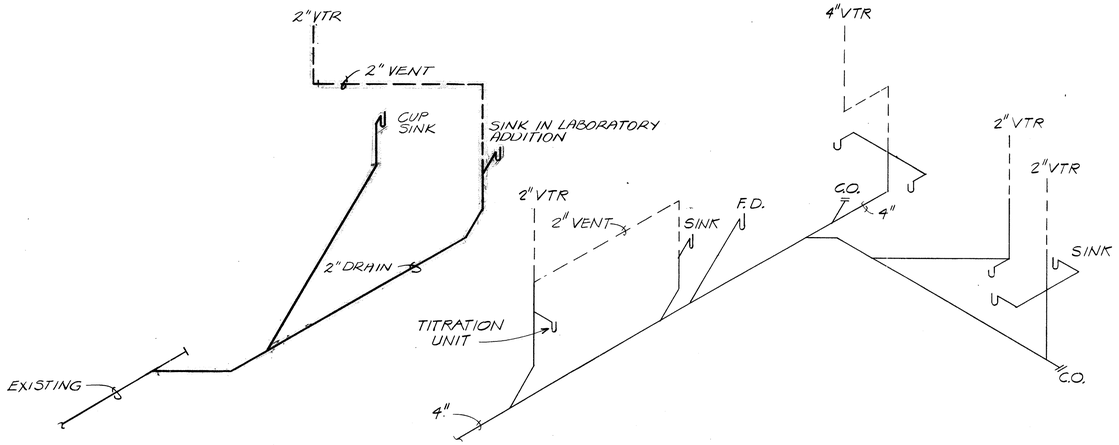
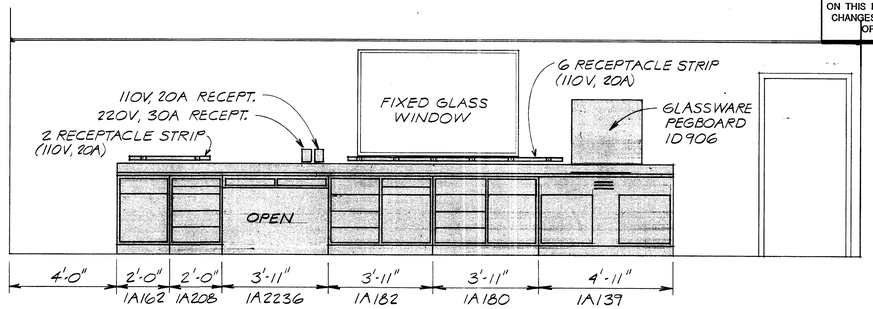



SANITARY RISER △

SCALE: NONE




ELEVATION AT SOUTH WALL

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

NOTES:

1. UNLESS NOTED OTHERWISE EXISTING & PROPOSED LABORATORY SERVICE LINES RUN IN SPACE ABOVE FIRST FLOOR CEILING.
2. TERMINATE AIR & GAS LINES WITH NEEDLE VALVE & BRASS MALE THREADED CONNECTION.
3. RUN 1/4" ALUMINUM GAS LINES IN CABINET CHASE OR CLAMPED TO WALL ABOVE COUNTER (LOCATION TO BE SELECTED BY LABORATORY SUPERVISOR). FOR CONNECTION TO GAS CYLINDERS TERMINATE LINES WITH BRASS MALE THREADED CONNECTIONS.
4. CUT OPENING IN EXISTING 8" CMU WALL FOR FUTURE 4" ϕ EXHAUST DUCT. SEAL OPENING ON OUTSIDE WITH 6"x6"x 1/8" AL. PLATE ON RESILIENT GASKET FASTENED TO WALL W/(4) 1/4" ϕx 4" LG. EXPANSION ANCHORS.
5. FAUCET & LINE FOR DISTILLED WATER SHALL BE PVC.

LEGEND

EXISTING

PROPOSED

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

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CHECKED YCL

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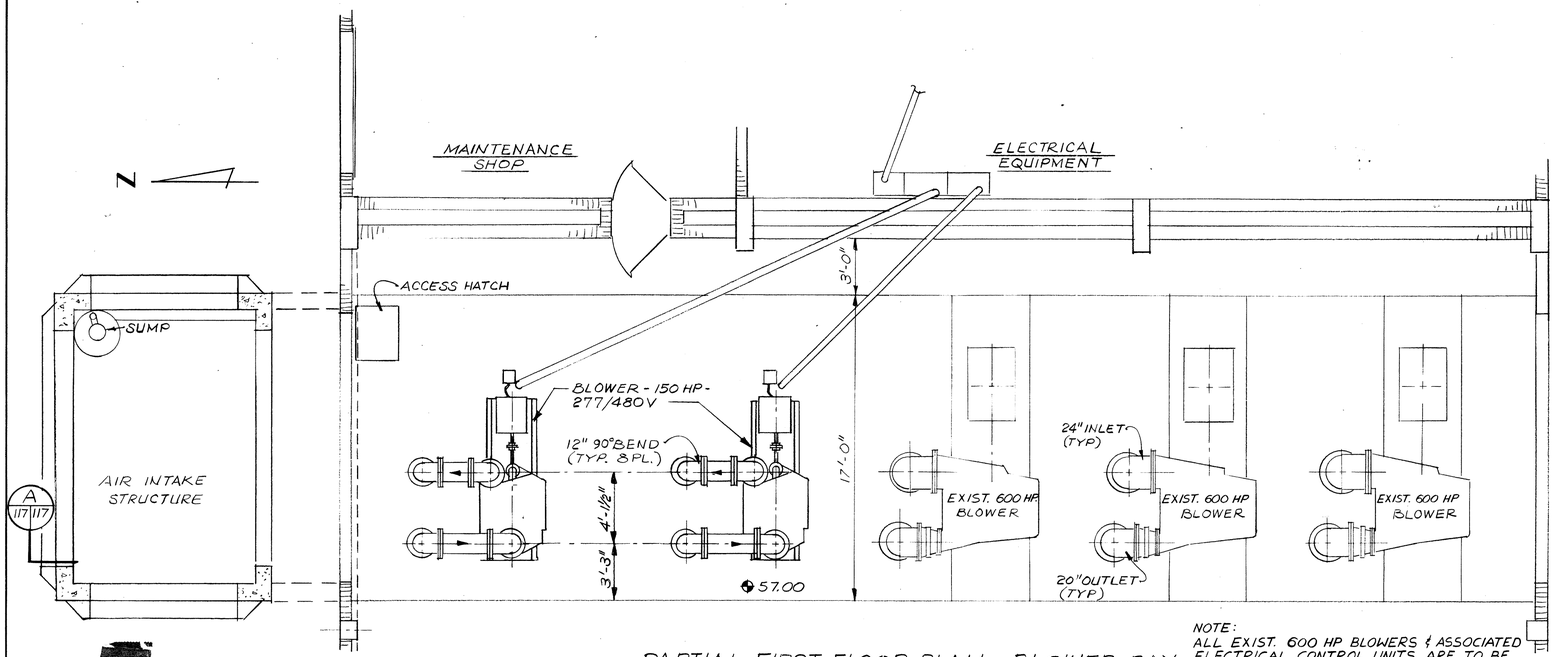
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING CONTROL BUILDING
LABORATORY ADDITION
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 117A OF 166
PROJ. NO. 87054-2
FILE NO. 13090-A

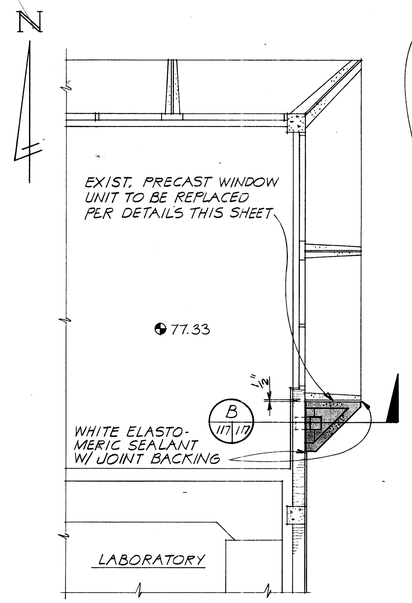
92016




PARTIAL FIRST FLOOR PLAN - BLOWER BAY

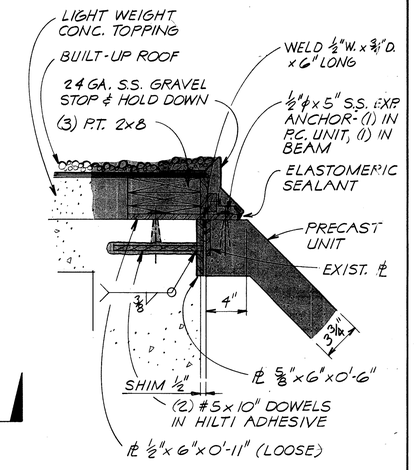
SCALE: 1/4"=1'-0"

NOTE:
ALL EXIST. 600 HP BLOWERS & ASSOCIATED ELECTRICAL CONTROL UNITS ARE TO BE REMOVED FROM OPERATION AND ARE TO BE LEFT IN PLACE. REFER TO SHEET 144 FOR ELECTRICAL MODIFICATIONS IN THIS AREA.




PARTIAL SECOND FLOOR PLAN
PRECAST WINDOW UNIT REPLACEMENT

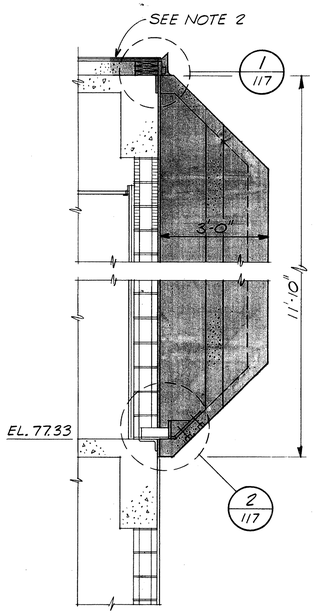
SCALE: 1/4"=1'-0"

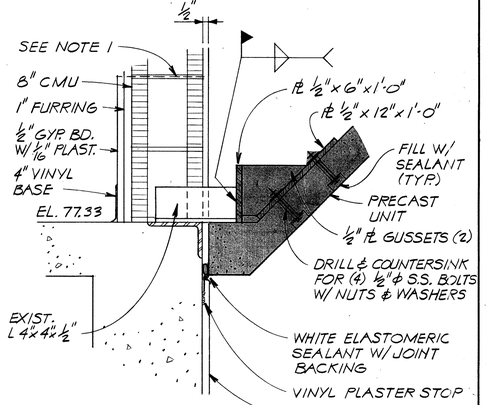



DETAIL 1/117

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

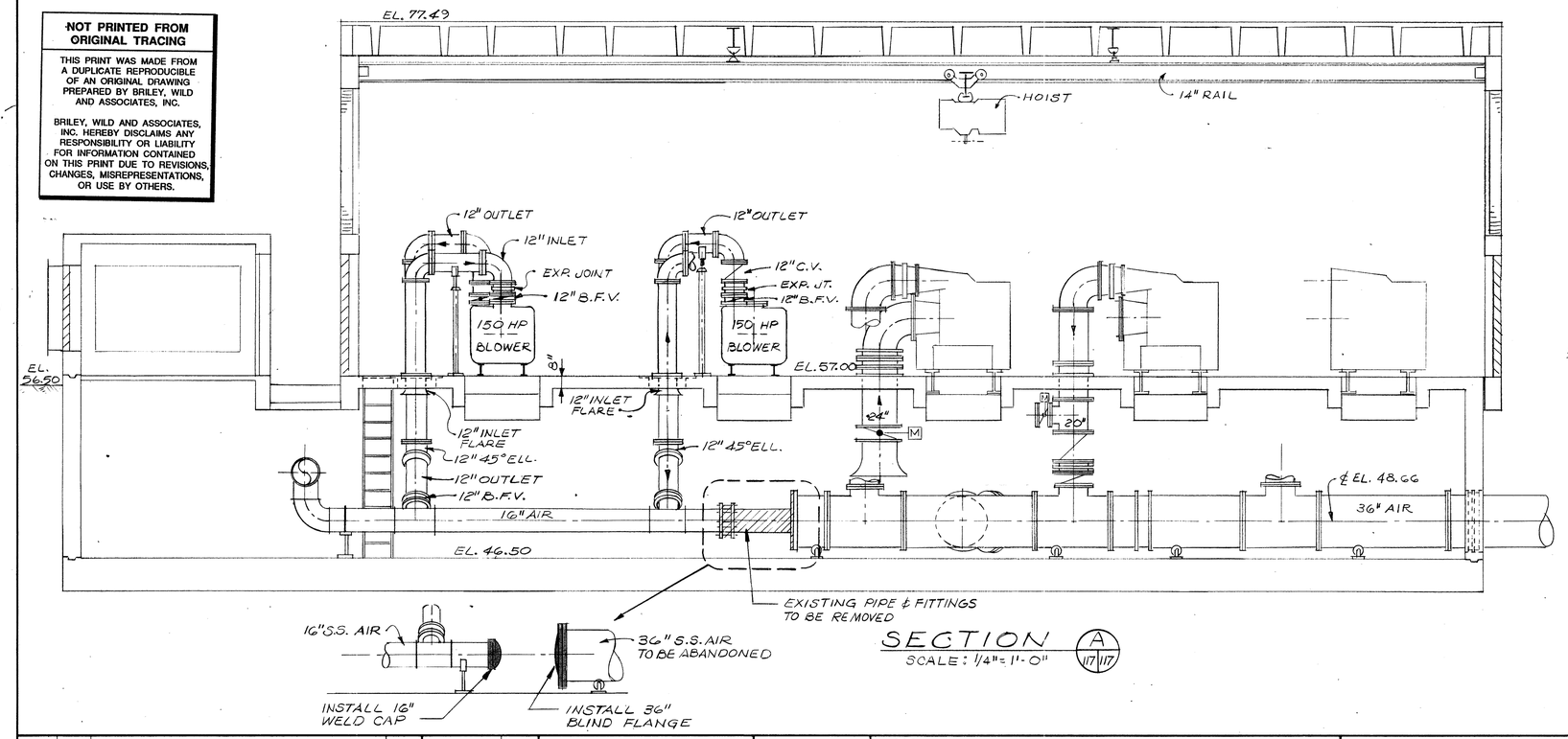
NOTES:
1. CUT 16"x16" ACCESS IN DRYWALL & CONC. BLOCK.
2. REMOVE ROOFING, GRAVEL STOP, TOPPING & NAILERS AS REQUIRED TO INSTALL TOP MOUNTING ℄.
3. RESTORE INTERIOR & EXTERIOR FINISHES THAT HAVE BEEN DISTURBED BY INSTALLATION OF PRECAST UNIT.
4. REPAIR DAMAGED PORTIONS OF EXIST. PRECAST WINDOW UNIT W/ GROUT & PAINT TO MATCH EXIST.




DETAIL 2/117

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




SECTION A 117|117

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

SECTION B 117|117

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

LEGEND

EXISTING

PROPOSED

**RECORD DRAWING**

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DRAWN SGO RJC
CHECKED SRS

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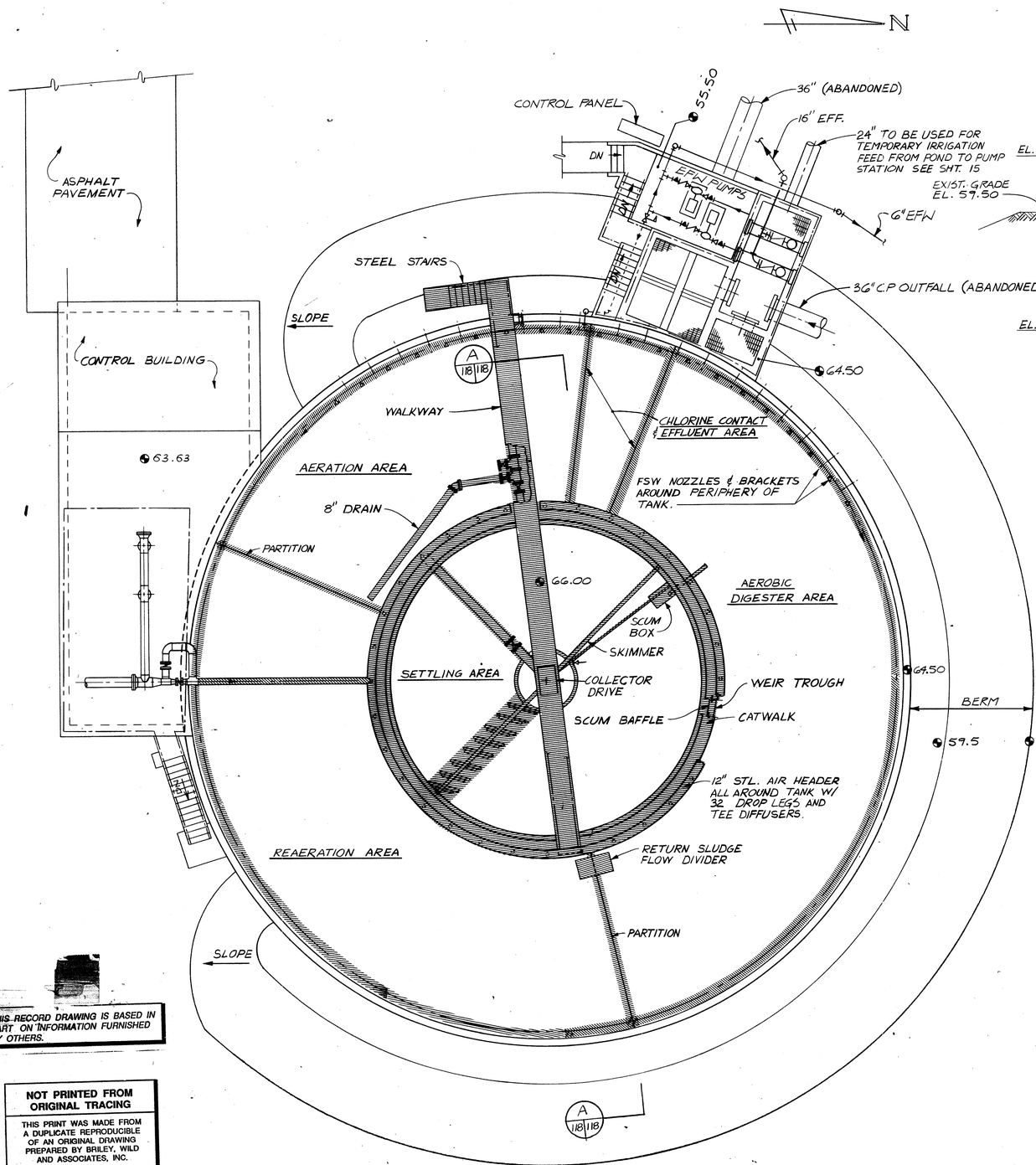
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING CONTROL BUILDING
AIR PIPING MODIFICATIONS & WINDOW UNIT REPAIR
CLEARWATER, FLORIDA

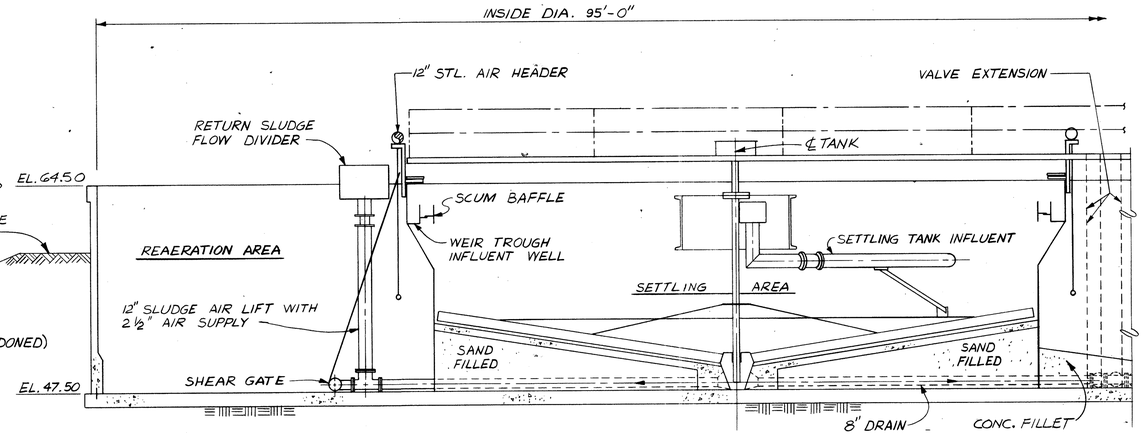
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 117B OF 166

PROJ. NO. 87054-2
FILE NO. 13090-B

92016

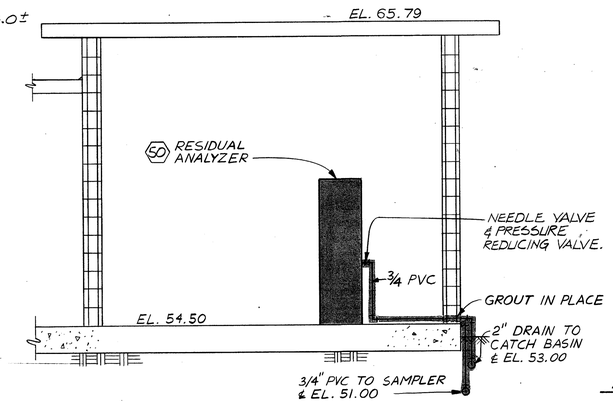



PLAN
SCALE: 1/8"=1'-0"

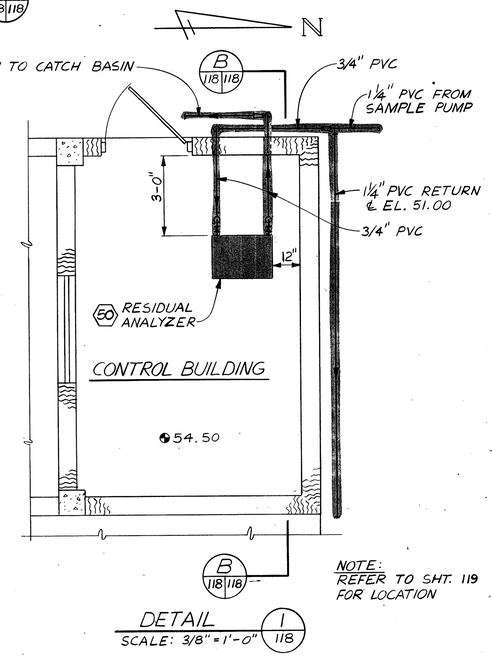



NOTE:
REMOVE ALL TANK INTERNALS INCLUDING MECHANISM, SLOPED CONC. CENTER AREA, SAND FILL, PIPING, WALKWAY, HANDRAIL, SPRAY HEADERS, CATWALK, CONC. FILLET IN EFFL. AREA & ANY OTHER APPURTENANCES WITHIN TANK WALLS.

SECTION A 118|118
SCALE: 3/16"=1'-0"




SECTION B 118|118
SCALE: 3/8"=1'-0"




NOTE:
REFER TO SHT. 119 FOR LOCATION

DETAIL 1 118
SCALE: 3/8"=1'-0"

LEGEND

EXISTING

REMOVAL

PROPOSED

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CHECKED YCL

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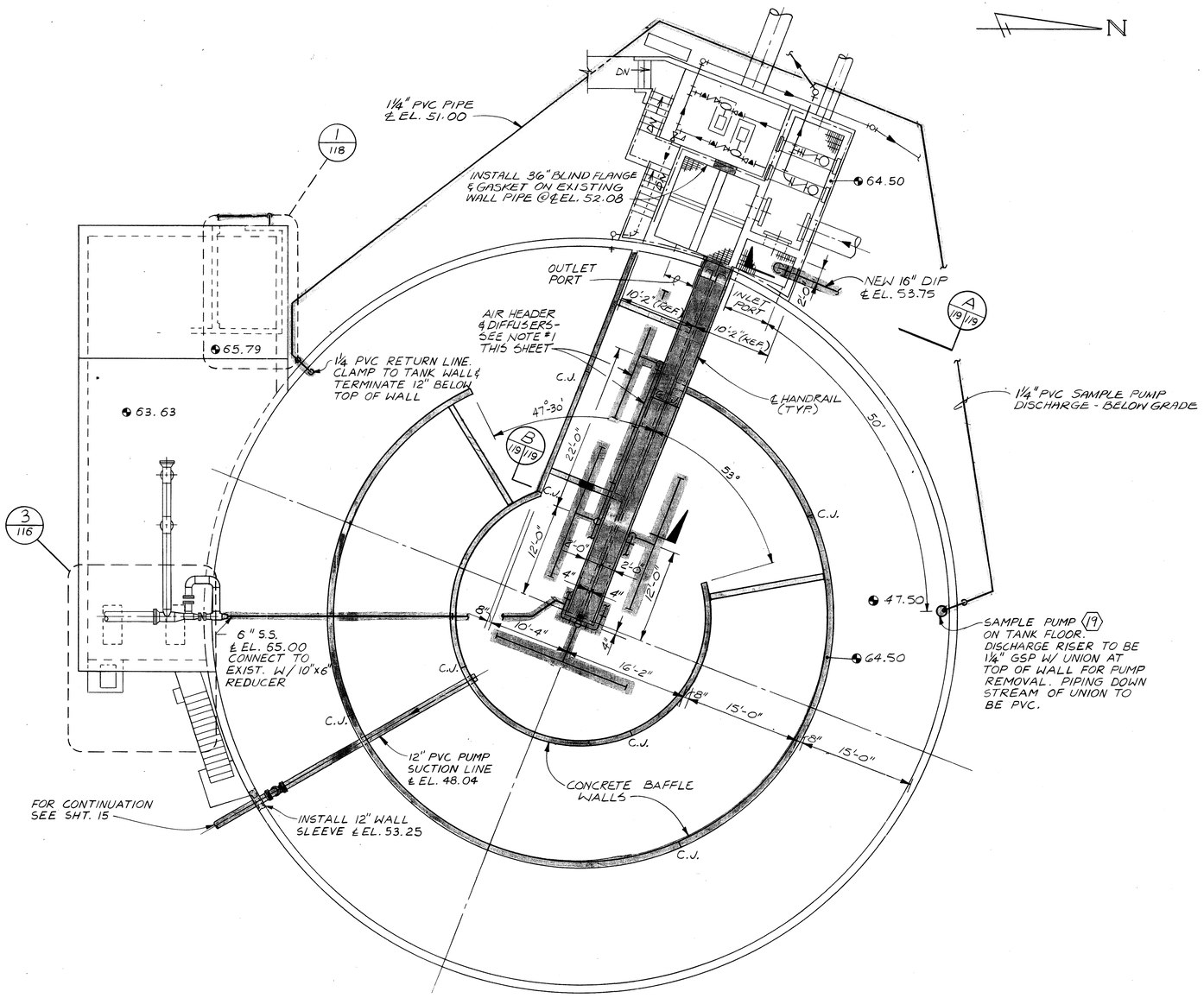
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
# EXISTING EFFLUENT IRRIGATION STORAGE TANK MODIFICATIONS PLANS & SECTIONS
CLEARWATER, FLORIDA

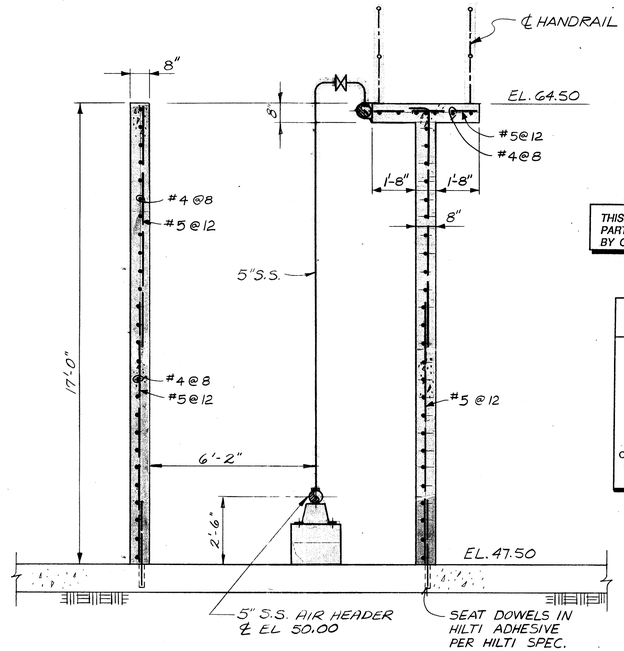
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 118 OF 166

PROJ. NO. 87054-2
FILE NO. 13091

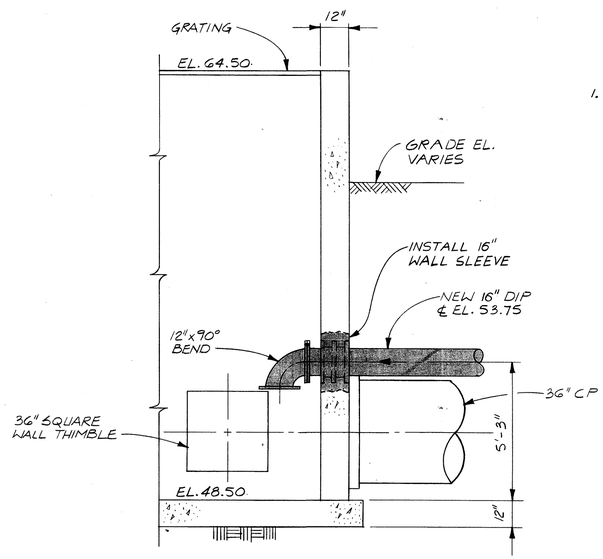
92016




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




SECTION B
SCALE: 3/8"=1'-0" (1/19 1/19)




SECTION A
SCALE: 3/8"=1'-0" (1/19 1/19)

NOTE:
1. 5" S.S. AIR HEADERS & DIFFUSERS USED ARE TO BE RELOCATED FROM EXIST. AERATION TANKS. SEE AIR DIFFUSER SUPPORT DETAIL SHT. 53

ALL AIR PIPING AND FITTINGS ABOVE WATER SURFACE AND/ OR UNDERGROUND SHALL BE 304 STAINLESS STEEL, SCHEDULE 5. AIR PIPING BENEATH WATER SURFACES FOR HEADER AND DIFFUSER MOUNTING SHALL BE EITHER 304SS, SCHEDULE 5 OR PVC SCHEDULE 80, ULTRAVIOLET LIGHT INHIBITED.

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**RECORD DRAWING**

LEGEND
EXISTING
PROPOSED

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92. |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 7-22-91 | RECORD DRAWING | GLR |

DESIGNED YCL JTS
DRAWN KTB SDD
CHECKED GRS

ENGINEER OF RECORD:

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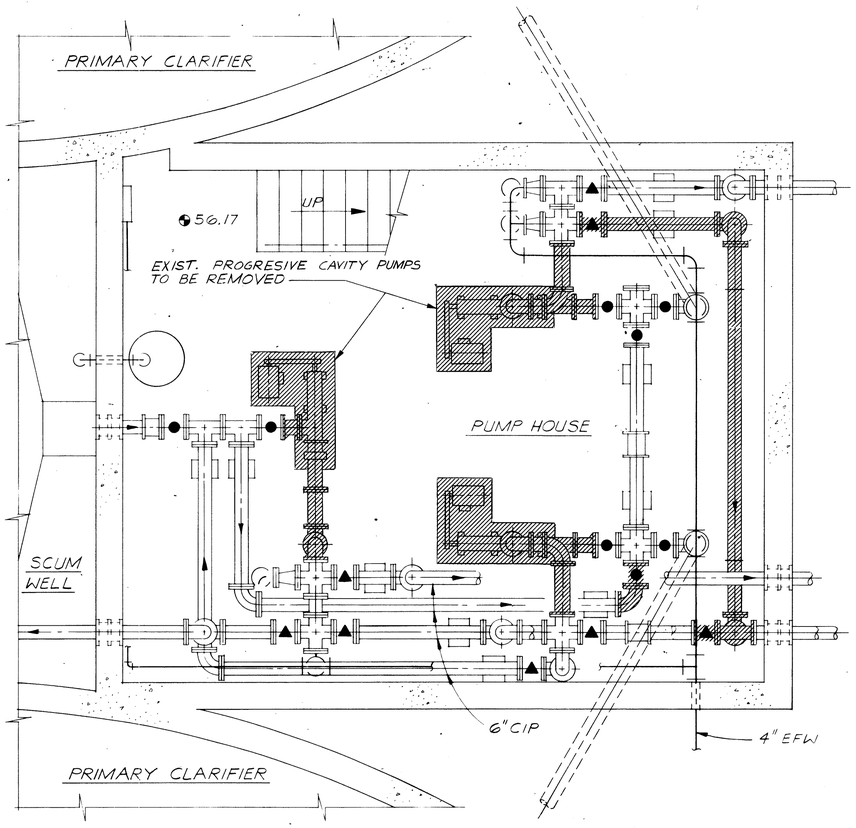
CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

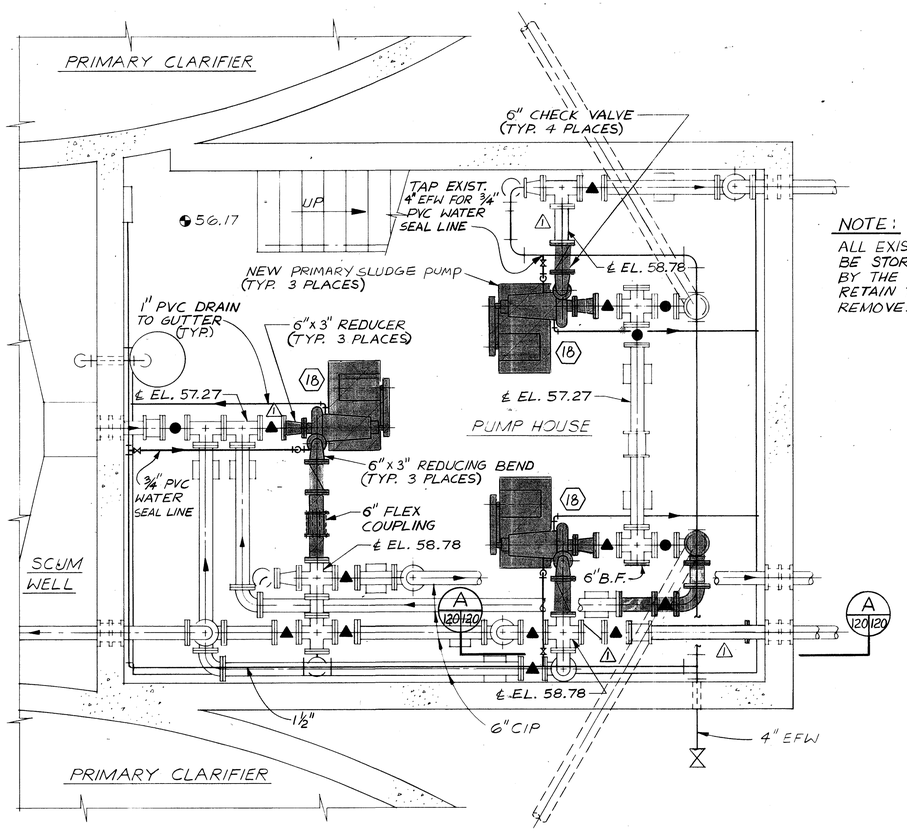
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING EFFLUENT IRRIGATION STORAGE TANK - MODIFICATIONS PLAN & SECTIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 119 OF 166
PROJ. NO. 87054-2
FILE NO. 13092

92016




LOWER LEVEL PLAN - REMOVAL
SCALE: 3/8" = 1'-0"




LOWER LEVEL PLAN - PROPOSED
SCALE: 3/8" = 1'-0"

NOTE:

ALL EXISTING PUMPS REMOVED SHALL BE STORED IN A LOCATION DESIGNATED BY THE OWNER, AND THE OWNER SHALL RETAIN THE OWNERSHIP OF ALL PUMPS REMOVED.

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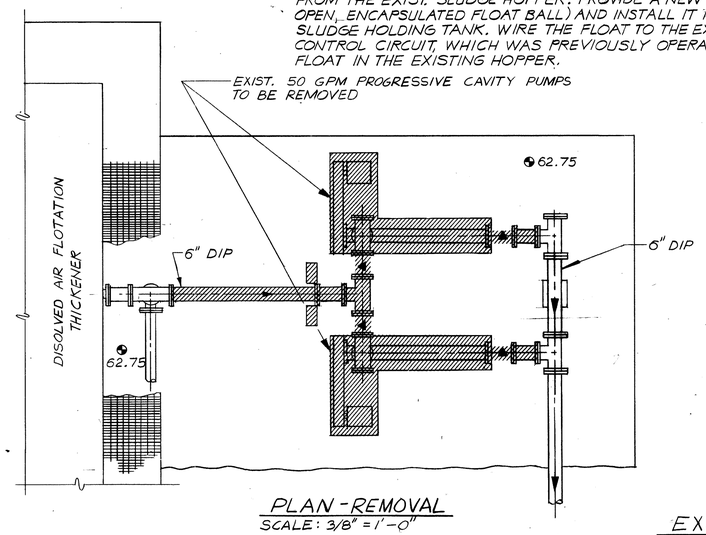
EXIST. PRIMARY CLARIFIER PUMP HOUSE

LEGEND

- EXISTING
- PROPOSED
- REMOVAL

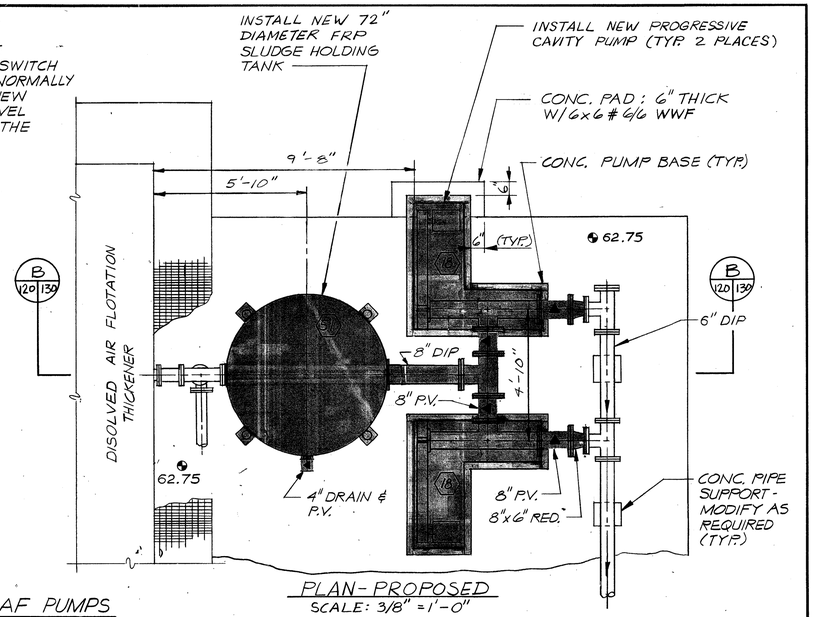
NOTE:

THE NEW SLUDGE TANK IS BEING PROVIDED TO INCREASE THE CAPACITY OF THE DAF SLUDGE HOPPER. REMOVE THE FLOAT SWITCH FROM THE EXIST. SLUDGE HOPPER. PROVIDE A NEW FLOAT (NORMALLY OPEN, ENCAPSULATED FLOAT BALL) AND INSTALL IT IN THE NEW SLUDGE HOLDING TANK. WIRE THE FLOAT TO THE EXIST. LEVEL CONTROL CIRCUIT, WHICH WAS PREVIOUSLY OPERATED BY THE FLOAT IN THE EXISTING HOPPER.




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

EXIST. DAF PUMPS




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

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD. | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 7/22/91 | RECORD DRAWING | GLB |

DESIGNED YCL
DRAWN SGO RAP
CHECKED YCL

ENGINEER OF RECORD:

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*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING DAF PUMPS & PRIMARY CLARIFIER SLUDGE PUMPS REPLACEMENT**
CLEARWATER, FLORIDA

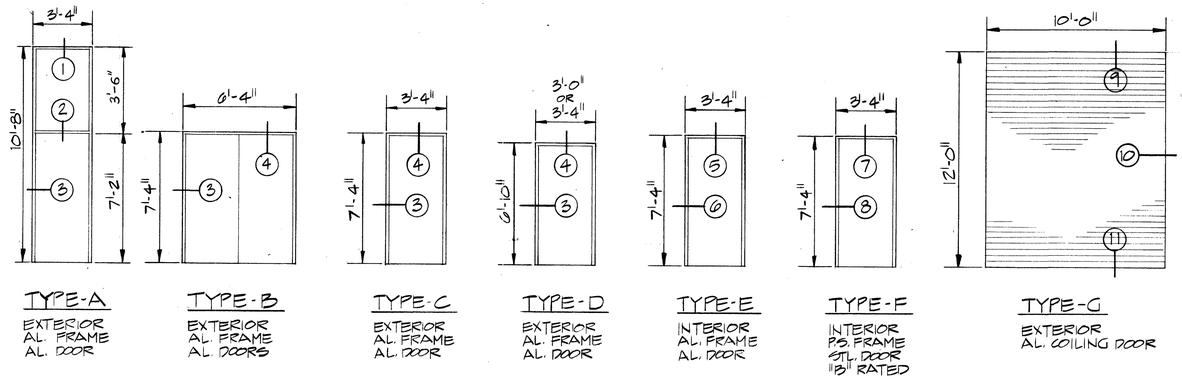
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 120 OF 166

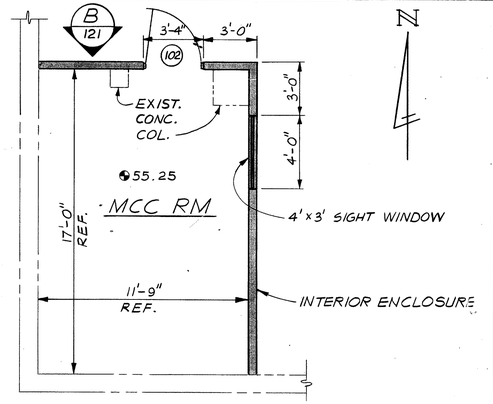
PROJ. NO. 87054-2
FILE NO. 13093

92016

# DOOR SCHEDULE

| MARK | SIZE | TYPE | HDWR SET | AL. | BRNZ | REMARKS |
|---|---|---|---|---|---|---|
| **INFLUENT STRUCTURE** | | | | | | |
| 101 | 3'-0" x 6'-8" x 1¾" | * | * | X | | * BY WALL MFR. |
| 102 | 3'-0" x 6'-8" x 1¾" | * | * | X | | * BY WALL MFR. |
| | | | | | | |
| **SLUDGE THICKENER CONTROL BLDG. (DOOR CONTROL)** | | | | | | |
| 201 | 3'-0" x 7'-2" x 1¾" | A | 4 | | X | |
| | | | | | | |
| **CLARIFIER PUMP HOUSE** | | | | | | |
| 300 | PR. 3'-0" x 7'-2" x 1¾" | B | 2 | X | | |
| 301 | 3'-0" x 7'-2" x 1¾" | C | 3 | X | | |
| | | | | | | |
| **EFFLUENT FILTER** | | | | | | |
| 402 | PR. 3'-0" x 7'-2" x 1¾" | B | 1 | | X | |
| 403 | 3'-0" x 6'-8" x 1¾" | D | 4 | | X | |
| 403A | 3'-0" x 7'-2" x 1¾" | E | 5 | X | | |
| 404 | 3'-0" x 7'-2" x 1¾" | F | 3 | X | | |
| 405 | 2'-8" x 6'-8" x 1¾" | D | 4 | | X | |
| 405A | 3'-0" x 6'-8" x 1¾" | D | 4 | | X | |
| | | | | | | |
| **SLUDGE DEWATERING BUILDING** | | | | | | |
| 501 | 3'-0" x 7'-2" x 1¾" | A | 3 | | X | |
| 501A | 3'-0" x 7'-2" x 1¾" | F | 3 | PTD | | "B" RATED |
| 502 | 3'-0" x 7'-2" x 1¾" | A | 4 | | X | |
| 503 | 3'-0" x 7'-2" x 1¾" | E | 5 | X | | |
| 504 | 3'-0" x 7'-2" x 1¾" | C | 5 | X | | |
| 504A | 3'-0" x 7'-2" x 1¾" | A | 4 | | X | |
| 504B | 10'-0" x 12'-0" | G | 6 | X | | |
| 505 | 3'-0" x 7'-2" x 1¾" | A | 4 | | X | |
| 505A | 10'-0" x 12'-0" | G | 6 | X | | |
| 507 | 3'-0" x 7'-2" x 1¾" | F | 3 | PTD. | | "B" RATED |
| | | | | | | |
| 520 | 3'-0" x 7'-2" x 1¾" | A | 4 | | X | |
| 521 | 3'-0" x 7'-2" x 1¾" | F | 3 | PTD. | | "B" RATED |
| 522 | 3'-0" x 7'-2" x 1¾" | E | 5 | X | | |



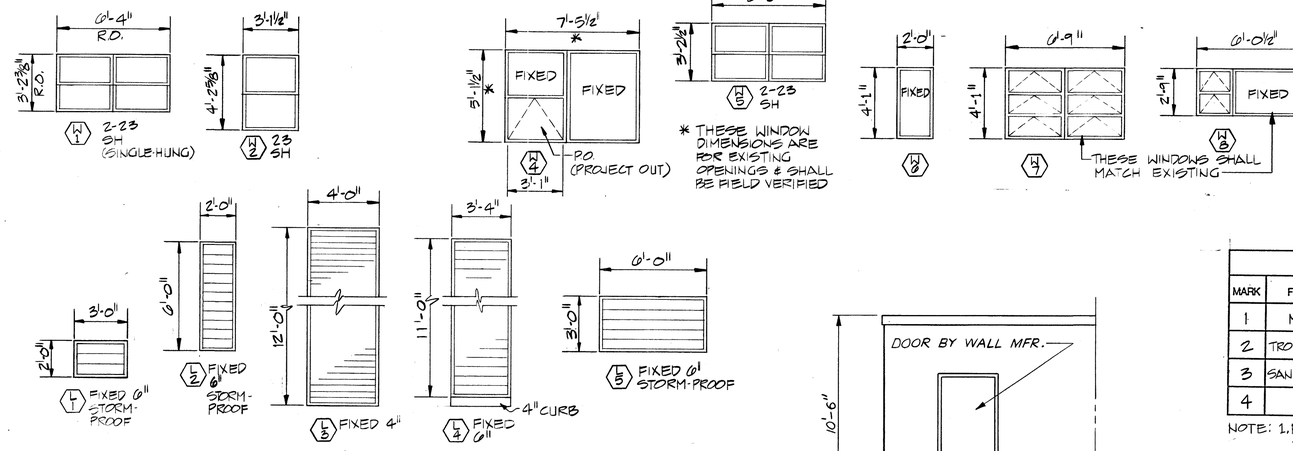




PARTIAL PLAN @ S.W. CORNER OF INFL. STRUC.

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

## DOORS & FRAMES

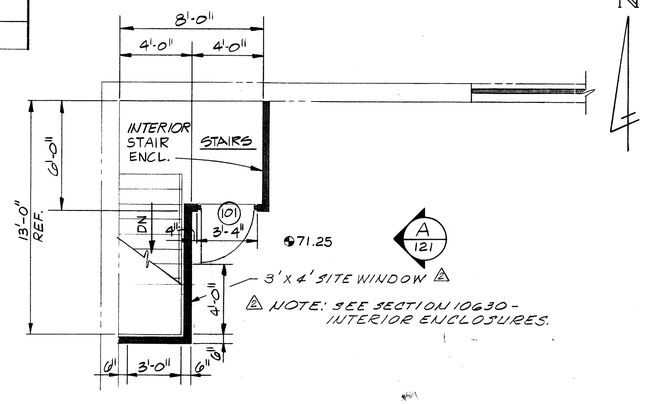
SCALE: 1/4" = 1'-0"




ALL LOUVERS HAVE BIRD SCREEN ON INTERIOR SIDE.

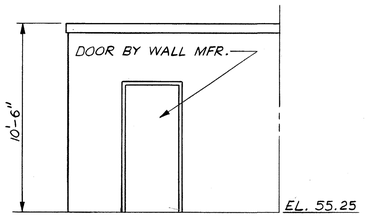
## WINDOWS & LOUVERS

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



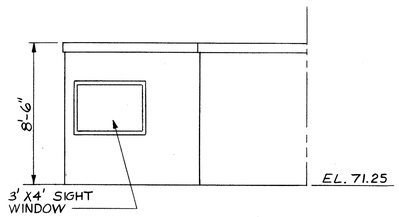

PARTIAL PLAN @ N.W. CORNER OF INFLUENT STRUCTURE

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




ELEVATION B 121

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




ELEVATION A 121

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

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## FINISH SCHEDULE

| MARK | FLOOR | BASE | WAINSCOT | WALLS | CEILING |
|---|---|---|---|---|---|
| 1 | M-3 | VINYL | 4'-0" HT. | A - 2 | SUSP. CLG. |
| 2 | TROWEL FIN. | NONE | NONE | PTD. A-1 | PTD. A-1 |
| 3 | SANDED EPOXY | | | PTD. G-1 | PTD. A-2 |
| 4 | | | | INTERIOR ENCLOSURE | |

NOTE: 1. FOR TROWEL FINISH SEE SPECIFICATION SECTION 03300 - CONCRETE.

2. FOR SANDED EPOXY SEE SECTION 09731 - SANDED EPOXY FLOOR FINISH.

3. FINISHES A-1, A-2, G-1 & M-3 ARE SYSTEMS. SEE SECTION 09900 FOR DESCRIPTION.

4. AN "X" IN ANY BOX OF THE INDIVIDUAL ROOM FINISH SCHEDULE SHALL MEAN TO LEAVE EXISTING FINISH "AS IS" EXCEPT FOR TOUCH-UP WHERE REQUIRED.

5. WHERE EXISTING FINISHES ARE DISTURBED DURING CONSTRUCTION, THOSE FINISHES SHALL BE RESTORED. NEW CONSTRUCTION ABUTTING EXISTING SHALL BE FINISHED TO MATCH THE EXISTING FINISH.

6. DOOR, WINDOW & LOUVER DIMENSIONS ARE "R.O." (ROUGH OPENING)

7. DOOR, WINDOW, LOUVER & TRIM FINISH SHALL BE THE SAME ON EA. BUILDING (I.E. IF DOORS ARE ANODIZED BRONZE THEN WINDOWS, LOUVERS & TRIM SHALL BE BRONZE).

| FLOOR | BASE | WALLS | CEILING | HEIGHT | |
|---|---|---|---|---|---|
| | | | | | EAST |
| | | | | | SOUTH |
| | | | | | WEST |

NOT USED IF ALL WALLS ARE THE SAME

SCHEDULE AS SHOWN IN EACH ROOM.

LEGEND

EXISTING

PROPOSED

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
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| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 5-31-89 | REVISED PER ADDENDUM #2 | KRM |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | KRM |

DESIGNED ROV | DRAWN BVB | CHECKED CJG

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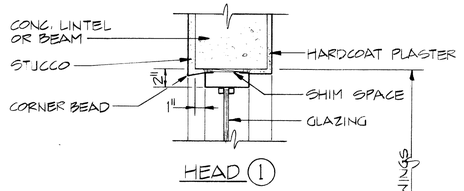
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**DOOR SCHEDULE -**
**DOOR, WINDOW & LOUVER TYPES & FINISH SCHEDULE**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 121 OF 166

PROJ. NO. 87054-2 | FILE NO. 13094

92016

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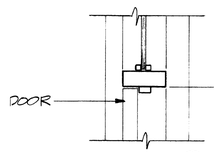


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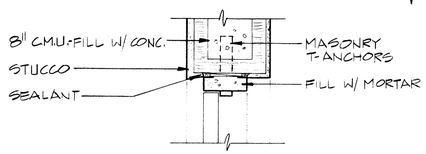


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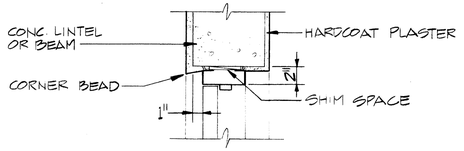


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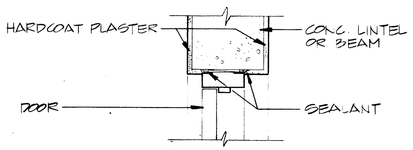


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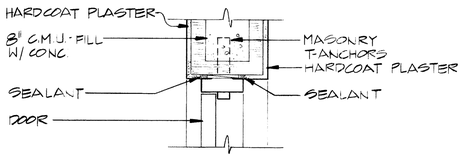


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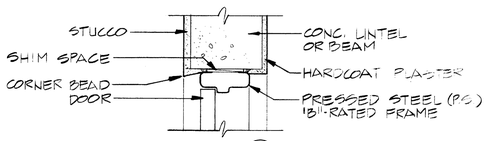


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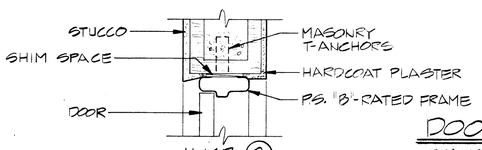


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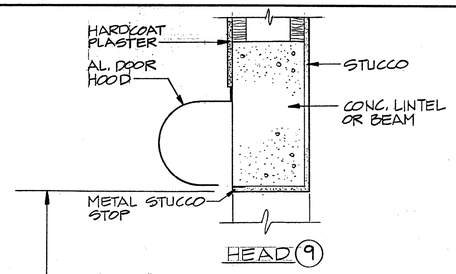


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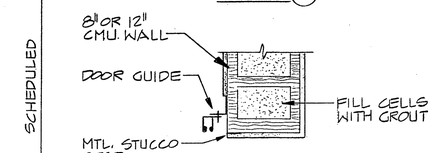


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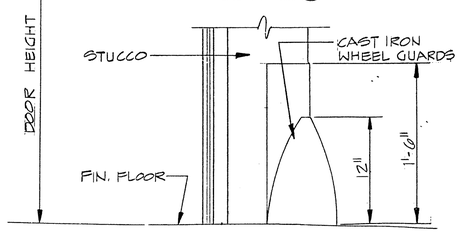
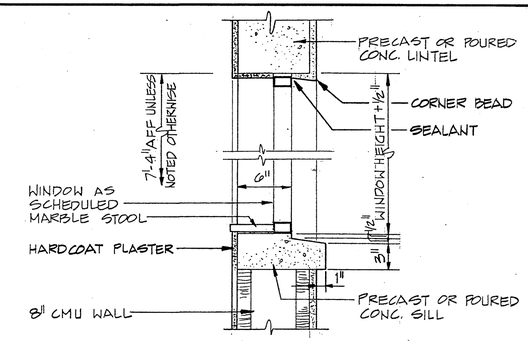



SILL (11)

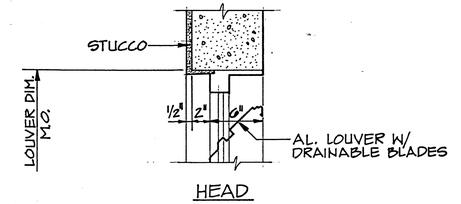
## DOOR DETAILS

SCALE: 1½" = 1'-0"




## WINDOW DETAIL W1 W2

SCALE: 1½" = 1'-0"

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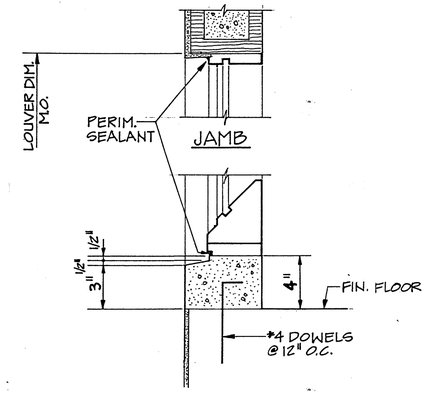
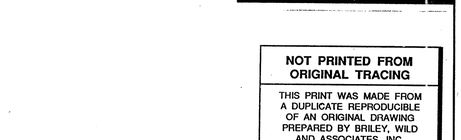


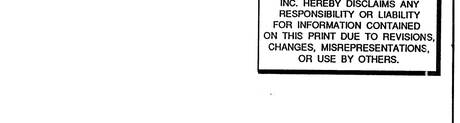

SILL

## FIXED LOUVER DETAIL 13/122

SCALE: 1½" = 1'-0"




HEAD

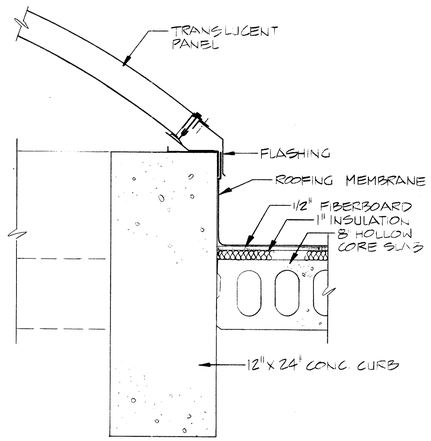



JAMB

SILL

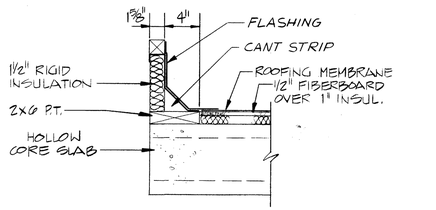
## WINDOW DETAIL W7 W8

SCALE: 1½" = 1'-0"




## LOW PROFILE TRANSLUCENT VAULT CURB DETAIL 12/122

SCALE: 1½" = 1'-0"




## EXHAUST FAN CURB DETAIL 14/122

SCALE: 1½" = 1'-0"

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# RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED, DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|

DESIGNED ROV
DRAWN BVB
CHECKED CJG

ENGINEER OF RECORD:

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**Briley, Wild & Associates, Inc.**
CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**DOOR, WINDOW & LOUVER DETAILS**
CLEARWATER, FLORIDA

| | |
|---|---|
| DATE: OCT. 1988 | PROJ. NO. 87054-2 |
| SCALE: AS SHOWN | FILE NO. 13095 |
| SHEET NO. 122 OF 166 | |

92016

A. CONCRETE CONSTRUCTION

1. ALL CONCRETE SHALL BE CLASS AA. HAVING A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT THE END OF 28 DAYS. UNLESS OTHERWISE NOTED.
2. CONCRETE FILL TO BE CLASS B UNLESS OTHERWISE NOTED, 3000 PSI.
3. CONCRETE EXPOSED TO THE ELEMENTS SHALL BE AIR-ENTRAINED CONCRETE.
4. ALL CONCRETE CONSTRUCTION AND REINFORCING BAR DETAILS SHALL CONFORM TO THE LATEST A.C.I. CODE AND MANUAL.
5. ALL REINFORCING SHALL BE A615 GRADE 60

6. UNLESS OTHERWISE NOTED. CONTINUOUS REINFORCEMENT SHALL BE LAPPED 30 BAR DIAMETERS FOR NO.8 BARS AND SMALLER. 35 DIAMETERS FOR NO.9 BARS AND SPLICES OF ADJACENT BARS SHALL BE STAGGERED.
7. VERTICAL REINFORCEMENT IN COLUMN SPLICES SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS.
8. SPACERS OR TIE BARS SHALL BE AS NOTED ON DRAWINGS OR A MINIMUM OF NO.4 AT 16'.
9. FOR BEAMS AND GIRDERS PROVIDE NO.8 SPACER BARS AT 5'-0" ON CENTER WHERE TWO LAYERS OF REINFORCEMENT ARE USED.
10. FOR CONCRETE BEAMS AND GIRDERS DEEPER THAN 20 INCHES. THE CONTRACTOR SHALL PROVIDE CONTINUOUS NO.5 TIE BARS AT 12 INCHES ON CENTERS ON EACH FACE. UNLESS OTHERWISE SHOWN.
11. UNLESS OTHERWISE NOTED. MAIN REINFORCING STEEL SHALL BE PLACED AND MAINTAINED AT THE MINIMUM CLEAR DISTANCES FROM SURFACE OF CONCRETE AS SHOWN IN TABLE BELOW. TIES. STIRRUPS AND SPACER BARS NO.4 AND SMALLER ARE NOT CONSIDERED AS MAIN REINFORCING STEEL AND MAY PROJECT INTO THE MINIMUM CLEAR DISTANCES GIVEN.
12. ALL CONCRETE WALLS. SLABS AND BEAMS SHALL BE BUILT TO MINIMIZE THE EFFECT OF CONCRETE SHRINKAGE. BY PLACING ALTERNATING SECTIONS OR PLACING SLABS IN CHECKER BOARD STYLE. ALLOW SUFFICIENT CURING TIME FOR INITIAL CONCRETE SHRINKAGE BEFORE PLACING SKIPPED SECTIONS.
13. AT LEAST TWO HOURS SHALL ELAPSE AFTER DEPOSITING CONCRETE IN PIERS. WALLS AND COLUMNS BEFORE DEPOSITING IN BEAMS OR SLABS SUPPORTED THEREON.
14. CONSTRUCTION JOINTS SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS.
15. CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED BY EQUIPMENT AND PIPING WHETHER OR NOT INDICATED ON THE DRAWINGS.
16. WATERSTOPS SHALL BE PROVIDED IN ALL JOINTS WHETHER INDICATED OR NOT WHEN SUCH JOINTS SEPARATE A DRY STRUCTURE AND A SOURCE OF WATER (A TANK WHICH CAN BE EMPTIED SHALL BE CONSIDERED A DRY STRUCTURE). WATERSTOPS SHALL BE P.V.C. OR STEEL OF THE SIZE AND SHAPE INDICATED ON THIS SHEET.
17. EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER. SUCH AS COLUMNS. PILASTERS. BEAMS. CURBS AND EQUIPMENT PADS.
18. DOWELS TO BE SET IN EXISTING CONCRETE SHALL BE BONDED WITH EPOXY GROUT AS DETAILED ON THIS SHEET. THE EPOXY GROUT SHALL CONSIST OF EPOXY RESIN AND FEDERAL FINE SAND MIXED IN RATIO OF 1:1. THE EPOXY RESIN SHALL BE COLMA PATCHING COMPOUND AS MANUFACTURED BY SIKA CHEMICAL COMPANY. PERMAGILE AS MANUFACTURED BY THE PERMAGILE CORPORATION OF AMERICA OR APPROVED EQUAL.
19. ALL FOOTINGS AND SLABS ON SOIL SHALL BE PLACED ON UNDISTURBED SOIL OR ON FILL COMPACTED TO 95% DENSITY PER ASTM D-1557.
20. FOUNDATIONS ON SOIL ARE DESIGNED BASED ON A MAXIMUM ALLOWABLE SOIL BEARING VALUE OF _____ TONS PER SQ. FT. SEE NOTE 23
21. THE CONTRACTOR SHALL PROVIDE SUPPORT FOR WALLS WITH FILL ON ONE SIDE BY SHORING OR PLACEMENT OF EARTH AS APPROVED BY THE ENGINEER UNTIL THE NEXT FLOOR SLAB IS IN PLACE. BACKFILL AGAINST CANTILEVER WALLS SHALL NOT BE PLACED UNTIL CONCRETE HAS GAINED ITS 28 DAY STRENGTH.
22. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL STRUCTURES AGAINST FLOTATION DURING CONSTRUCTION. COMPLETED STRUCTURES HAVE BEEN DESIGNED AGAINST FLOTATION WITH BACKFILL IN PLACE. (EXCEPT AS SHOWN)
23. REFER TO REPORT OF "GEOTECHNICAL EXPLORATION AND FOUNDATION RECOMMENDATIONS" PREPARED BY CLINE/NTH, LTD, INC. DATED JUNE 24, 1988.

B. CONCRETE EXCAVATION

1. THE CONTRACTOR SHALL BE RESPONSIBLE. TO SATISFACTION OF THE ENGINEER. FOR TAKING ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING STRUCTURES DURING CONCRETE EXCAVATION.
2. IN CUTTING AND CHIPPING OF EXISTING CONCRETE. THE CONTRACTOR SHALL REMOVE ANY REINFORCING OR OTHER EMBEDDED ITEMS WHICH CANNOT BE BENT INTO AREAS WHERE NEW CONCRETE WOULD FULLY COVER THEM.
3. THE CONTRACTOR SHALL PATCH AND FINISH. AFTER CONCRETE EXCAVATION. ALL EXPOSED SURFACES TO MATCH EXISTING AREAS TO A SATISFACTORY AND WORKMANLIKE MANNER.

C. STEEL CONSTRUCTION

1. ALL STRUCTURAL STEEL SHALL BE ASTM-A36 AND SHALL BE DETAILED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. MANUAL AND SPECIFICATIONS FOR BUILDING CONSTRUCTION.
2. SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH THE CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY.
3. SHOP CONNECTIONS. UNLESS NOTED SPECIFICALLY. SHALL BE MADE WITH 3/4" DIAMETER (FRICTION TYPE) HIGH STRENGTH BOLTS. 3/4" DIAMETER RIVETS OR BY WELDING. GIRTS SHALL BE CONNECTED WITH A MINIMUM OF TWO UNFINSHED BOLTS WITH SUITABLE LOCK WASHERS AND HEX NUTS.
4. FIELD CONNECTIONS. UNLESS NOTED SPECIFICALLY. SHALL BE MADE WITH 3/4" FRICTION TYPE HIGH STRENGTH BOLTS A-325, BRACING AND BRIDGING MEMBERS MAY BE CONNECTED WITH UNFINISHED BOLTS. USING SUITABLE LOCK WASHERS.
5. ALL BRACING SHALL BE DETAILED TO AVOID ECCENTRIC CONNECTIONS.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ONE WASHER AND ONE HEX NUT WITH ALL ANCHOR BOLTS.
7. ELEVATIONS OF TOP OF STEEL NOTED ON THE DRAWINGS REFER TO TOP OF FLANGE.
8. PROVIDE TEMPORARY TIES AND BRACING WHERE NECESSARY DURING CONSTRUCTION. AND UNTIL THE BUILDING IS COMPLETED.

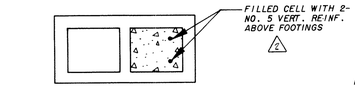
D. ALUMINUM CONSTRUCTION

1. STRUCTURAL ALUMINUM SHALL BE ALLOY 6061-T6 AND SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS FOR STRUCTURES OF ALUMINUM ALLOY 6061-T6 AS PUBLISHED BY A.S.C.E.
2. FIELD CONNECTIONS. UNLESS NOTED SPECIFICALLY. SHALL BE MADE WITH STAINLESS STEEL BOLTS AS NOTED ON THE DRAWINGS AND IN THE SPECIFICATION.
3. ALUMINUM IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH ASPHALTIC VARNISH 15 MIL DRY FILM THICKNESS.

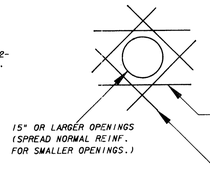
LEGEND

△ FOOTING DESIGNATION

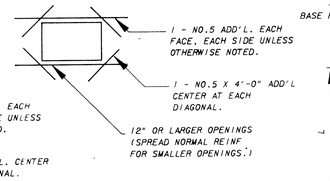
⬡ COLUMN DESIGNATION




CONCRETE BLOCK DETAILS AT OPENINGS

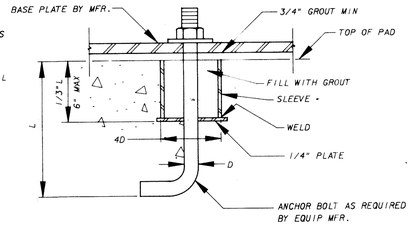



REINFORCEMENT AT ROUND OPENINGS

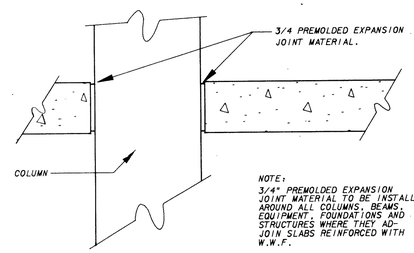



REINFORCEMENT AT RECTANGULAR OPENINGS

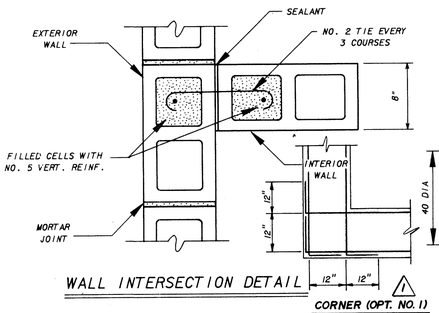
WALL PENETRATION DETAILS



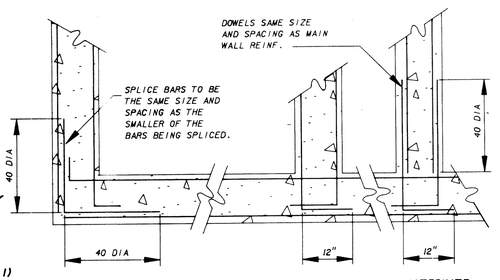

ANCHOR BOLT DETAIL

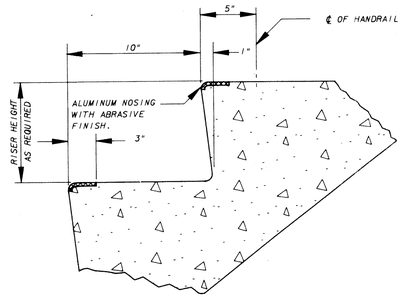



EXPANSION JOINT DETAIL

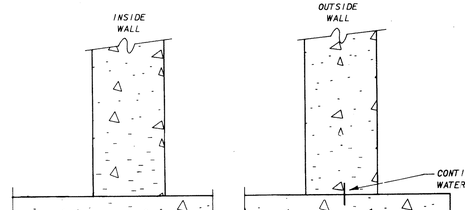



WALL INTERSECTION DETAIL




TYPICAL CONCRETE STAIR DETAIL




CONSTRUCTION JOINT & WATERSTOP DETAIL

CLEAR CONCRETE COVER OVER REINFORCEMENT

| STRUCTURAL ELEMENT | EXPOSURE: AIR | WATER | SEWAGE | AIR OVER LIQUID | EARTH ON FORMED SURFACES | EARTH ON UNFORMED SURFACES |
|---|---|---|---|---|---|---|
| SLABS | 3/4" | 1" | 2" | 1½" | - | 3" |
| BEAMS | 1½" | 2" | 2" | 1½" | 2" | 3" |
| COLUMNS | 1½" | 1½" | 2" | 1½" | 1½" | 3" |
| WALLS | 1" | 1½" | 2" | 1½" | 1½" | 3" |
| FOOTINGS | - | 2" | - | - | 2" | 3" |

NOTES: ALL EXPANSION JOINT WATERSTOPS SHALL BE PVC OF THE MULTI RIB TYPE WITH CENTER BULB. DURING CONCRETE PLACEMENT W.S. SHALL BE SECURELY HELD IN PLACE TO PREVENT BENDING OR DISPLACEMENT.

WALL REINFORCING DETAIL

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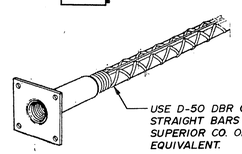
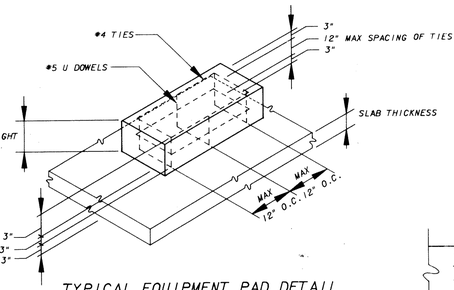
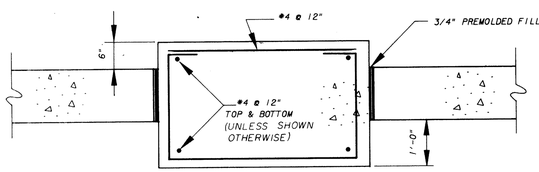


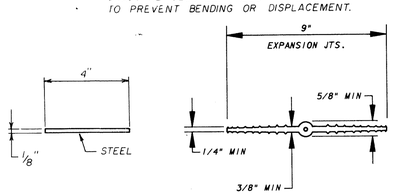

DOWEL BAR REPLACEMENT △ (OPTIONAL)



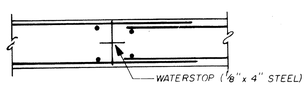

TYPICAL EQUIPMENT PAD DETAIL



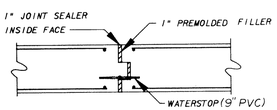

HEAVY EQUIPMENT FOUNDATION VIBRATION ISOLATION




TYPICAL WATERSTOP DETAILS



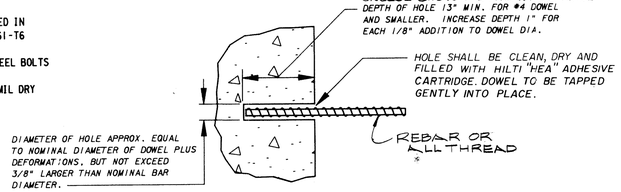

CONSTRUCTION JOINT IN WALLS & SLABS



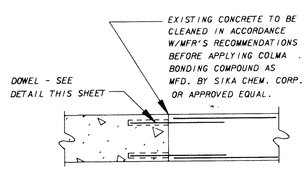

EXPANSION JOINT

TYPICAL JOINT DETAILS

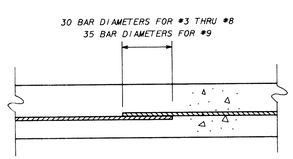
NOTE: WATERSTOPS TO BE INSTALLED ON SIDE EXPOSED TO WATER.




DETAIL
DOWEL SET INTO EXIST. CONCRETE




DETAIL
BONDING TO EXIST. CONC.




RE-BAR LAP

RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
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| O | RELEASED FOR CONSTRUCTION |
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| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 7-11-91 | RECORD DRAWING | WLS |
| 1 | 2-92 | RECORD INFORMATION PER CITY BLDG. DEPT. | BVB |

DESIGNED VTS | DRAWN R.V.N | CHECKED SRG

SUBMITTED: BRILEY, WILD & ASSOCIATES

APPROVED:

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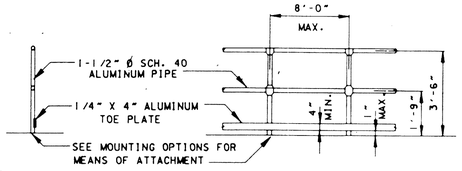
Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

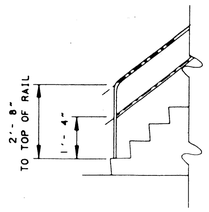
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
STANDARD STRUCTURAL DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 123 OF 166

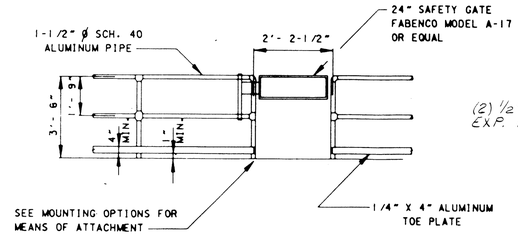
PROJ. NO. 87054-2
FILE NO. 13096

92016

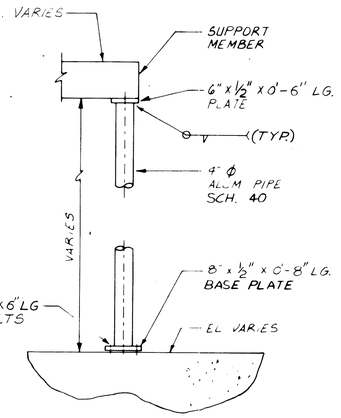


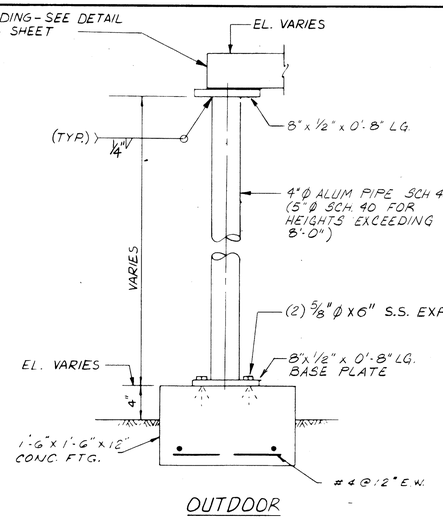

NOTE:
THE RAILING SHALL BE PROVIDED WITH A TOE PLATE UNLESS OTHERWISE NOTED.




## HANDRAIL DETAILS

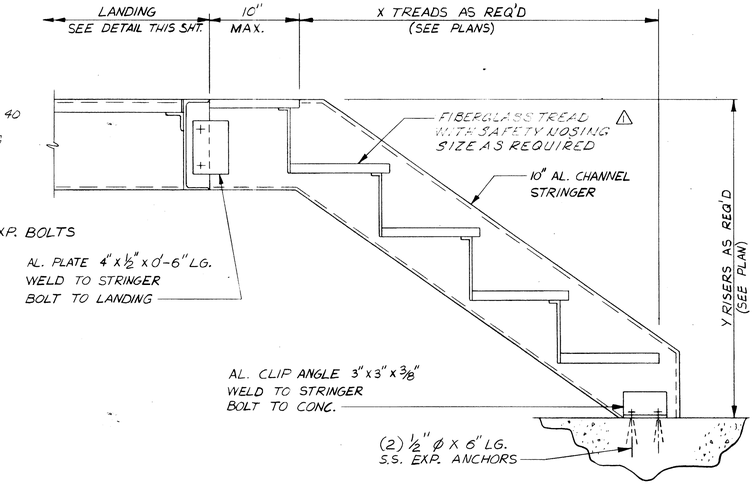



INDOOR

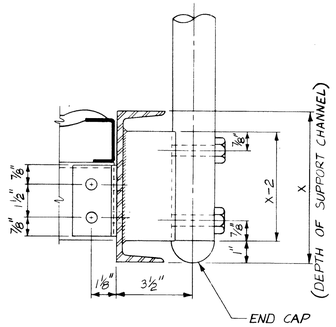



OUTDOOR

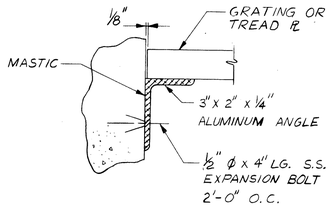
## STAIR LANDING & PLATFORM SUPPORT DETAILS



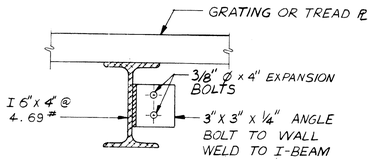

## STAIR DETAIL




STRUCTURAL MEMBER MOUNTING




TYPE "A" SUPPORT

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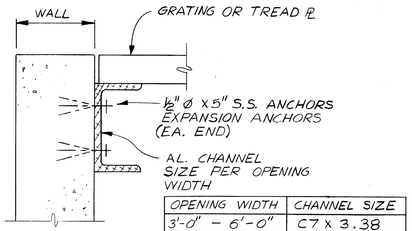
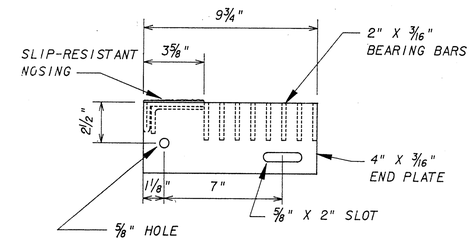



| OPENING WIDTH | CHANNEL SIZE |
|---|---|
| 3'-0" - 6'-0" | C7 X 3.38 |
| 6'-0" - 10'-0" | C10 X 5.28 |
| | |

TYPE "C" SUPPORT

NOTES:
1. PROVIDE TYPE "A" SUPPORT FOR CHANNEL WIDTH OR SPAN LESS THAN 3'-0". PROVIDE TYPE "B" SUPPORT FOR CHANNEL WIDTH OR SPAN GREATER THAN OR EQUAL TO 3'-0". SPACINGS BETWEEN TYPE "B" SUPPORTS SHALL NOT EXCEED 3'-0". COMBINATION OF TYPE "A" AND TYPE "B" SUPPORTS MAY BE REQUIRED AT THE AREAS WHERE TWO CHANNELS
2. ASSEMBLY TO BE ADEQUATLY REINFORCED SO AS TO PREVENT DEFORMATION AND DEFLECTION UPON INSTALLATION AND OPERATION.

## GRATING & TREAD PLATE SUPPORT DETAILS




NOTE: BASIS OF DESIGN
McNICHOLS CO. OR EQUIVALENT

ALUMINUM GRATING
STAIR TREAD DETAIL

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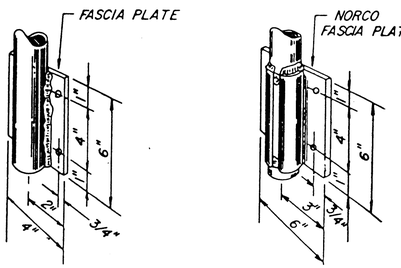
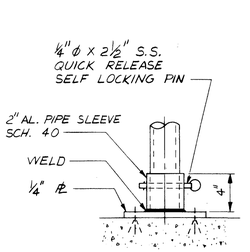
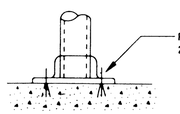
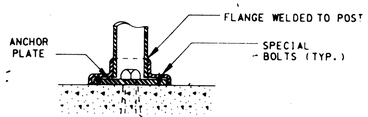
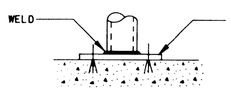



SIDE MOUNTED HANDRAIL - DETAILS

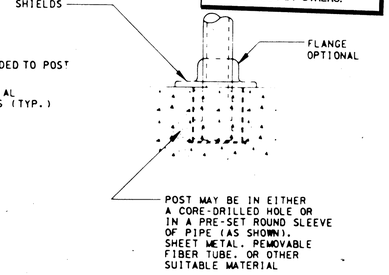


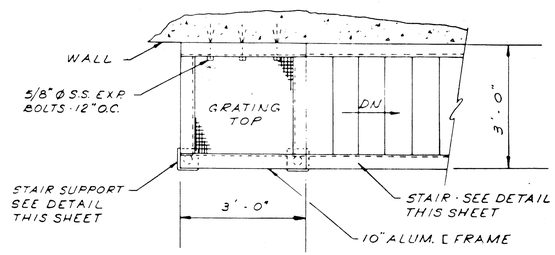




MOUNTING ON CONCRETE OR MASONRY

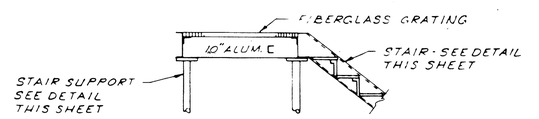



EMBEDMENT IN CONCRETE

OPTIONS FOR POST MOUNTING




TYPICAL PLAN




TYPICAL SECTION

STAIR LANDING & PLATFORM DETAIL

GENERAL NOTES

1) BEAM CONNECTIONS SHALL BE MADE USING 5/8" DIA. S.S. BOLTS.
2) ALL PLATFORM FRAMING SHALL BE ALUMINUM CONSTRUCTION
3) ALL GRATING SHALL REQUIRE ADDITIONAL SUPPORT AS PER DETAILS THIS SHEET.

**RECORD DRAWING**

| STATUS: | ACTION DATE: |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIM. PLAN |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 5-31-88 | REVISED PER ADDENDUM # 2 | KPM |

DESIGNED YCL | DRAWN RAP EGO | CHECKED GRS

ENGINEER OF RECORD:

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

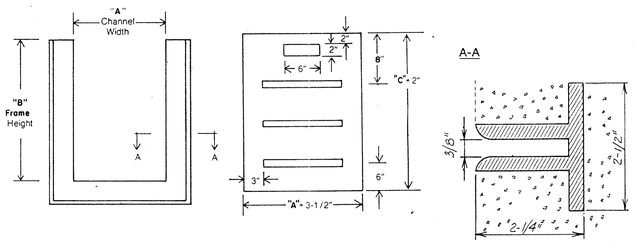
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
GRATING, STAIR & HANDRAIL DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 124 OF 166

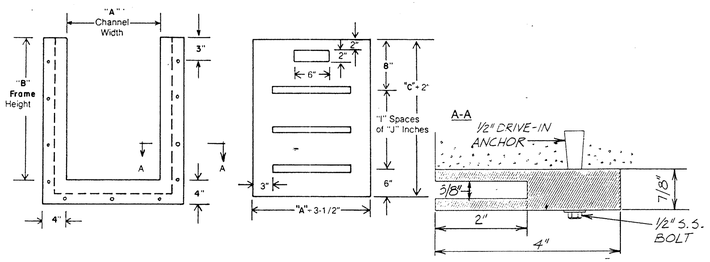
PROJ. NO. 87054-2
FILE NO. 13097

92016

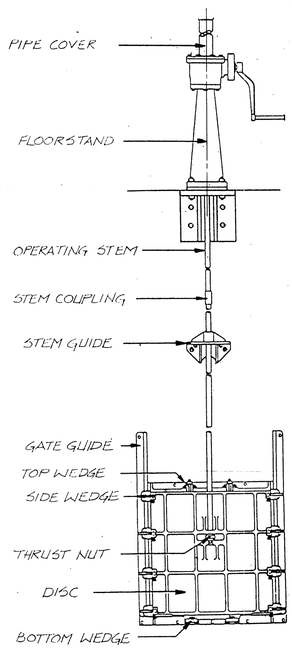
Slide Gate and Recessed Guide Frame



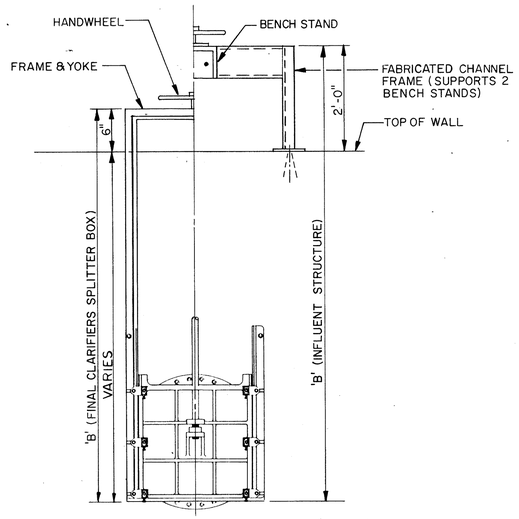

Slide Gate and Flange-Mounted Guide Frame



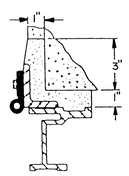

## ALUMINUM STOP GATE DETAILS



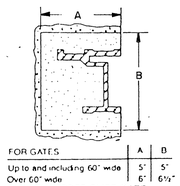

## FLUSH MOUNTED SLUICE GATE DETAIL



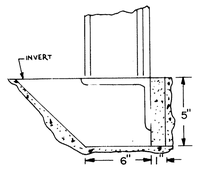

## CIRCULAR SLUICE GATE DETAIL




SPIGOT GATE WITH J-SEAL (Side Guide)

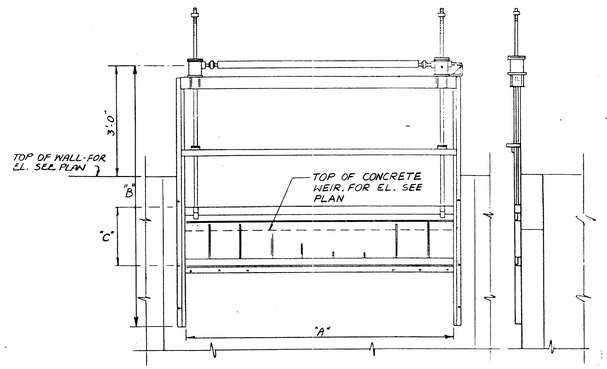



EMBEDDED SLIDE GATE (Side Guide)

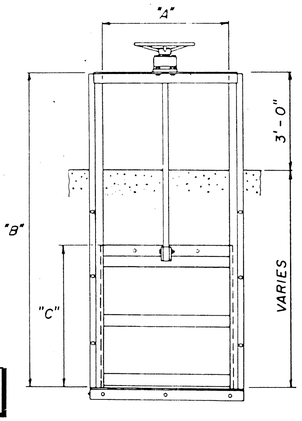



GATE SILL - FLUSH INVERT

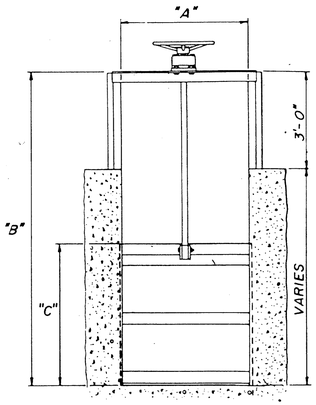
## BOX-OUT DETAILS




## FLUSH-MOUNT SELF-CONTAINED WEIR GATE DETAIL




FLUSH MOUNTED GATE




EMBEDDED GATE

## SLIDE GATE DETAILS

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| ITEM | LOCATION | OPERATOR TYPE | GATE TYPE | QUAN. | CHAN. WIDTH "A" | FRAME HT. "B" | GATE HT. "C" | MAX. WATER DEPTH @ GATE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | INFLUENT STRUCTURE | BENCH STAND & FRAME | SLUICE | 8 | N.A. | 4'-2 1/2" | SEE REMARKS | 18" | 6" DIA. GATE |
| 2 | FERMENTATION TANKS FLOW SPLITTER BOX | CRANK OPERATED | WEIR | 2 | 10'-0" | 8'-6" | 3'-0" | 1'-5" | SELF CONTAINED |
| 3 | FERMENTATION TANKS FLOW SPLITTER BOX | SEE REMARKS | WEIR | 2 | 10'-0" | 5'-8" | 3'-0" | 1'-5" | SPECIAL APPLICATION SEE DETAIL, SHEET 34 |
| 4 | FERMENTATION TANKS INFLUENT CHANNEL | HANDWHEEL OPERATED | SLIDE | 4 | 4'-0" | 10'-0" | 4'-0" | 3'-0" | EMBEDDED, SELF CONTAINED |
| 5 | FERMENTATION TANKS BY-PASS CHANNEL & RECYCLE CHANNEL | HANDWHEEL OPERATED | SLIDE | 4 | 4'-0" | 8'-0" | 4'-6" | 3'-0" | EMBEDDED, SELF CONTAINED |
| 6 | SCREW L.S. INFLUENT CHANNEL | HANDWHEEL OPERATED | SLIDE | 7 | 5'-0" | 12'-0" | 5'-8" | 3'-6" | EMBEDDED, SELF CONTAINED |
| 7<br>7A | SCREW L.S. EFFLUENT CHANNEL | HANDWHEEL OPERATED<br>HANDWHEEL OPERATED | SLIDE<br>SLIDE | 5<br>2 | 5'-0"<br>4'-6" | 15'-6" | 6'-2" | 5'-2" | EMBEDDED, SELF CONTAINED |
| 8 | OXIDATION REACTORS EFFLUENT BOX | CRANK OPERATED | WEIR | 6 | 20'-0" | 8'-6" | 2'-0" | 1'-8" | SELF CONTAINED |
| 9 | OXIDATION REACTORS EFFLUENT BOX | HAND | STOP | 2 | 4'-10" | 5'-0" | 4'-0" | 1'-9" | EMBEDDED, 1GATE & 4 GUIDES AT EACH TANK |
| 10 | SECOND ANOXIC TANK NO. 9 INFLUENT BOX | HANDWHEEL | SLIDE | 1 | 3'-0" | 9'-0" | 4'-10" | 4'-0" | EMBEDDED, SELF CONTAINED |
| 11 | SECOND ANOXIC TANK DIVERSION BOX | N.A. | STOP | 2 | 4'-0" | 10'-6" | 10'-3" | 9'-6" | EMBEDDED WITH REINFORCED LIFTING EYES |
| 12 | SECOND ANOXIC TANK DIVERSION BOX | HAND | STOP | 1 | 4'-0" | 1'-10 1/2" | 1'-10 1/2" | 11" | EMBEDDED |
| 13 | SECOND ANOXIC TANK DIVERSION BOX | HAND | STOP | 1 | 4'-0" | 2'-7 1/2" | 2'-7 1/2" | 1'-10" | EMBEDDED |
| 14 | REAERATION TANKS EFFLUENT CHANNEL EXTENSION | HAND | STOP | 1 | 3'-0" | 6'-6" | 6'-0" | 4'-6" | EMBEDDED |
| 15 | FINAL CLARIFIERS SPLITTER BOX | HANDWHEEL OPERATED | SLUICE | 4 | N.A. | 9'-7 1/2" | SEE REMARKS | 8'-7" | 30" DIA. SELF CONTAINED |
| 16 | EFFLUENT FILTER LOWER LEVEL | CRANK OPERATED FLOOR STAND | SLUICE | 1 | 2'-6" | 7'-6" | 3'-6" | 13'-6" | FLUSH MOUNTED |
| 17 | EFFLUENT FILTER UPPER LEVEL | CRANK OPERATED | SLIDE | 1 | 5'-0" | 6'-0" | 3'-0" | 2'-6" | EMBEDDED, SELF CONTAINED |
| 18 | EFFLUENT FILTER UPPER LEVEL | CRANK OPERATED | SLIDE | 1 | 4'-6" | 6'-0" | 3'-0" | 2'-6" | EMBEDDED, SELF CONTAINED |
| 19 | EFFLUENT FILTER UPPER LEVEL | CRANK OPERATED | SLIDE | 2 | 5'-0" | 10'-0" | 7'-0" | 6'-6" | EMBEDDED, SELF CONTAINED |
| 20 | CLARIFIER EFFLUENT CHANNEL JUNCTION BOX | N.A. | STOP | 2 | 3'-0" | 11'-9" | 11'-9" | 10'-11" | SURFACE MOUNTED WITH REINFORCED LIFTING EYES |
| 21 | CLARIFIER EFFLUENT CHANNEL JUNCTION BOX | N.A. | STOP | 1 | 3'-6" | 12'-0" | 12'-0" | 11'-2" | SURFACE MOUNTED WITH REINFORCED LIFTING EYES |

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 7-1191 | RECORD DRAWING | WLS |
| 1 | 5-3189 | REVISED PER ADDENDUM #2 | KRM |

DESIGNED YCL
DRAWN SGO
CHECKED SRG

ENGINEER OF RECORD:

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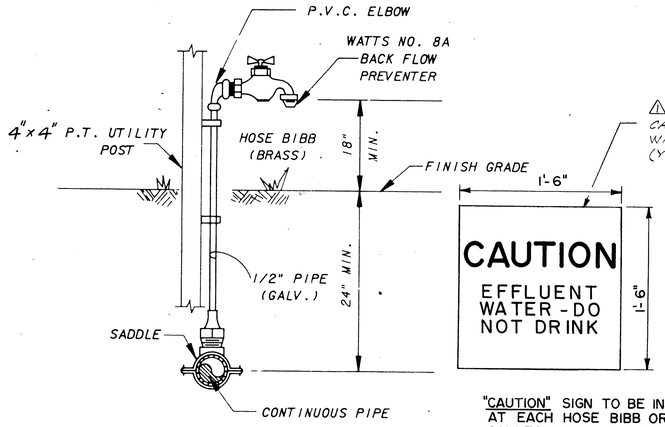
CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
GATE SCHEDULE & DETAILS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 125 OF 166

PROJ. NO. 87054-2
FILE NO. 13098

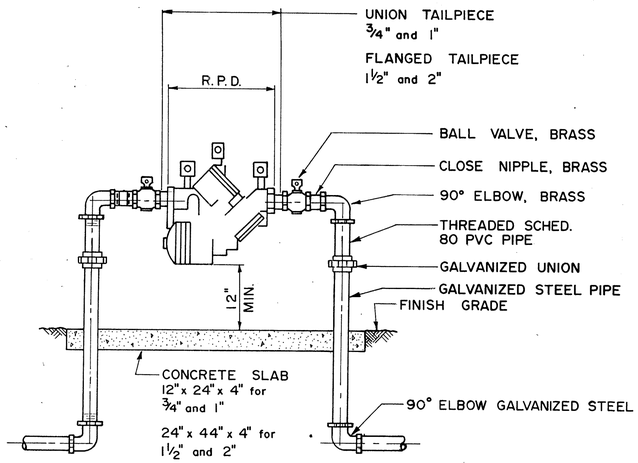
92016



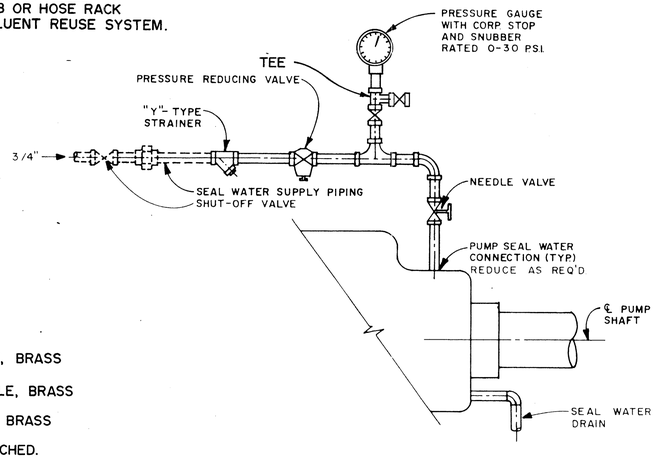

⚠ CAUTION SIGN SHALL BE .040 ALUMINUM WITH BAKED ENAMEL BACKGROUND FINISH (YELLOW) AND LETTERS (BLACK).

"CAUTION" SIGN TO BE INSTALLED AT EACH HOSE BIBB OR HOSE RACK CONNECTED TO EFFLUENT REUSE SYSTEM.

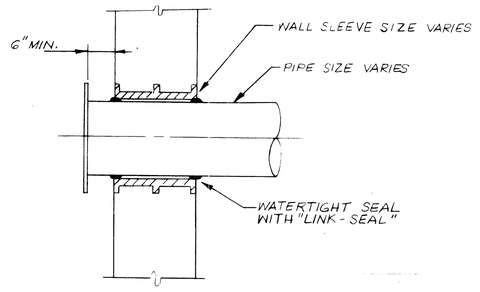
OUTDOOR INSTALLATION HOSE BIBB DETAIL




REDUCED PRESSURE BACKFLOW ASSEMBLY
N. T. S.

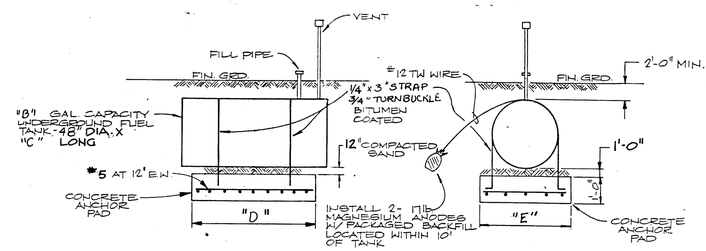



SEAL WATER PIPING DETAIL

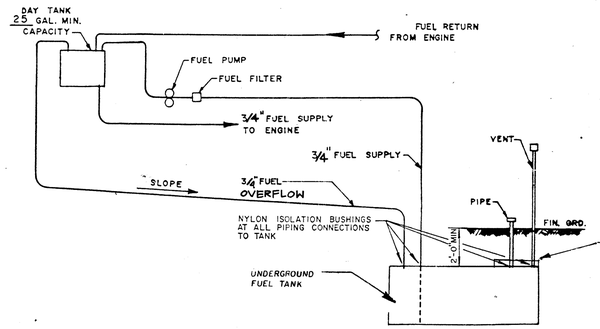



PIPE PENETRATION DETAIL

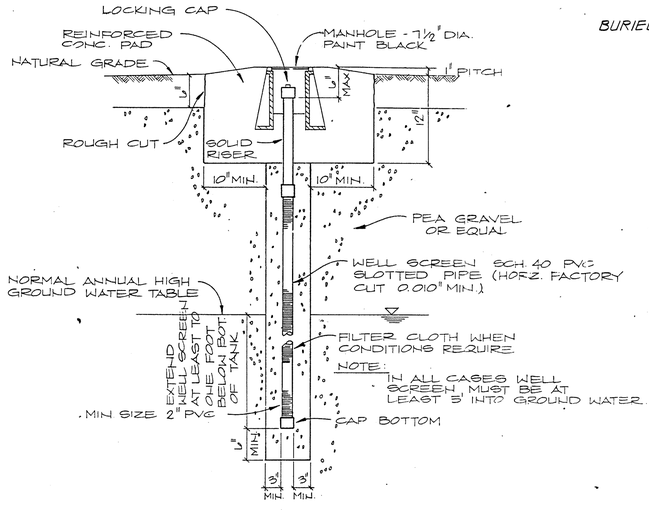
| TABLE OF DIMENSIONS | | | | | |
|---|---|---|---|---|---|
| MARK | A | B | C | D | E |
| A | | 1000 | 11'-0" | 10'-0" | 6'-0" |
| B | | 1000 | 11'-0" | 10'-0" | 6'-0" |



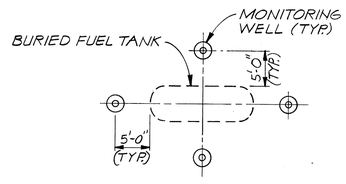

FUEL OIL STORAGE TANK DETAIL




FUEL SYSTEM SCHEMATIC




MONITORING WELL DETAIL




PLAN

MONITORING WELL LOCATIONS

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**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 5-31-89 | REVISED PER ADDENDUM # 2 | KRM |

DESIGNED YCL
DRAWN RAP SMF
CHECKED ERG

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APPROVED:
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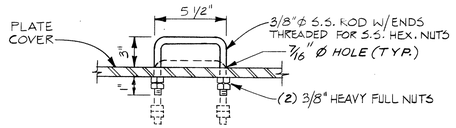
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

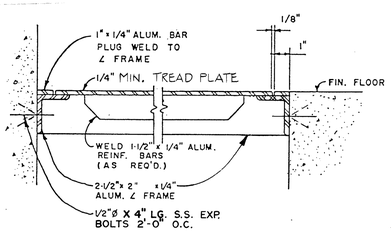
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**STANDARD MECHANICAL DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 126 OF 166
PROJ. NO. 87054-2
FILE NO. 13099

92016

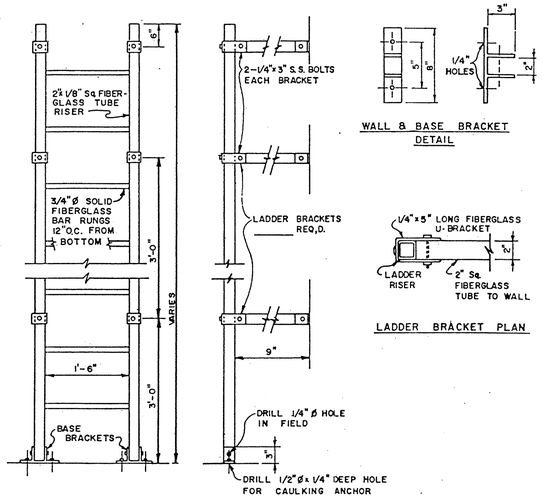



## PLATE COVER LIFTING HANDLE-DETAIL

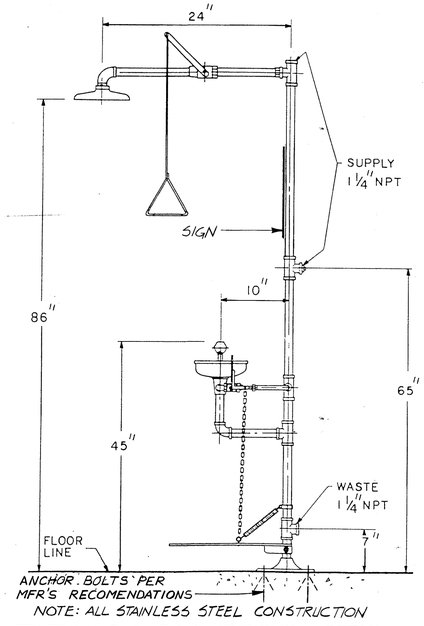



NOTE:
ASSEMBLY TO BE ADEQUATELY REINFORCED SO AS TO PREVENT DEFORMATION & DEFLECTION UPON INSTALLATION & OPERATION.

## PLATE COVER - DETAIL

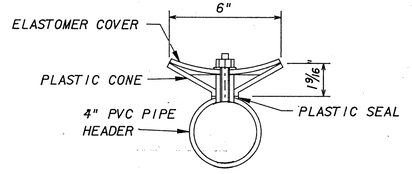



## LADDER, FIBERGLASS - DETAILS

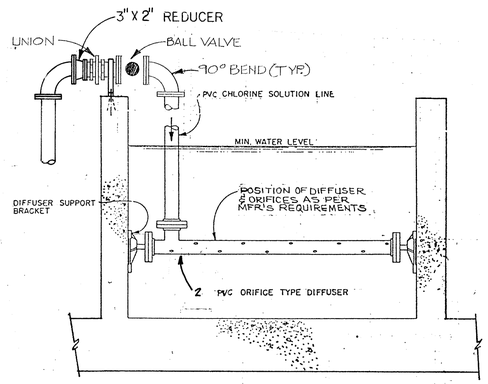



NOTE: ALL STAINLESS STEEL CONSTRUCTION

## EMERGENCY SHOWER & EYEWASH - DETAIL




## AIR DIFFUSER DETAIL - BLENDING TANKS




## OPEN CHANNEL DIFFUSER DETAIL

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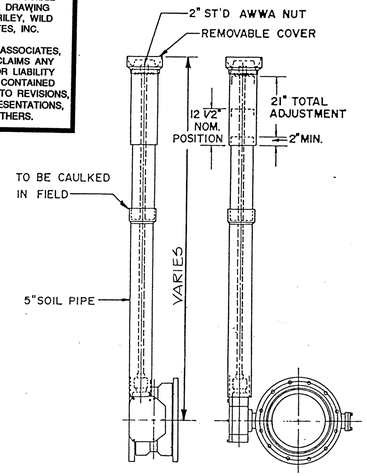
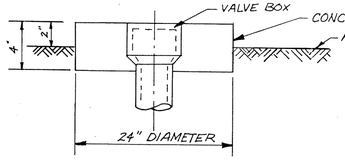
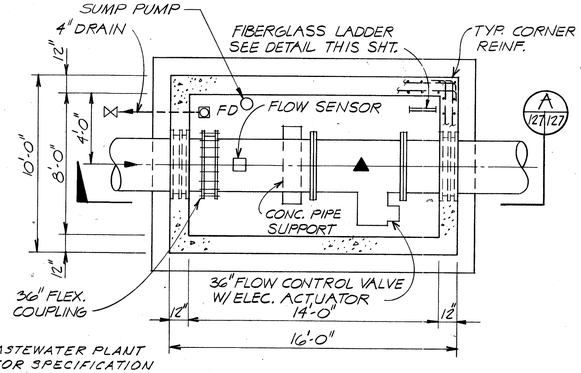



## STANDARD VALVE INSTALLATION - DETAIL



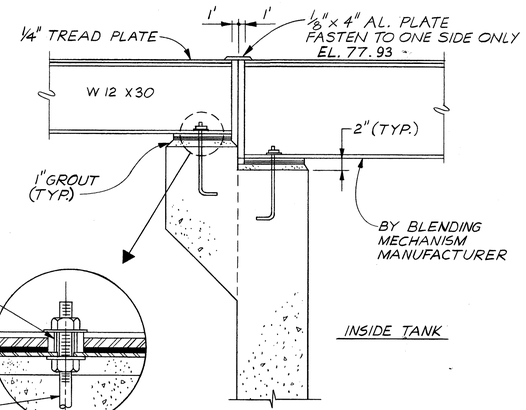

## TYPICAL VALVE BOX SETTING - DETAIL




⚠ NOTE:
SEE SECTION 13320 - WASTEWATER PLANT INSTRUMENTATION FOR SPECIFICATION FOR THE FLOW SENSOR.

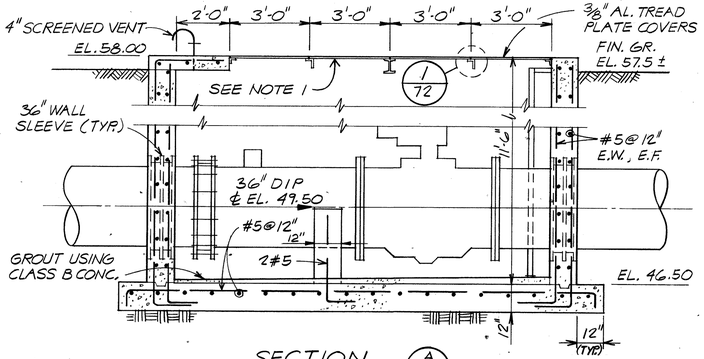
## PLAN - FLOW CONTROL BOX ⚠

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



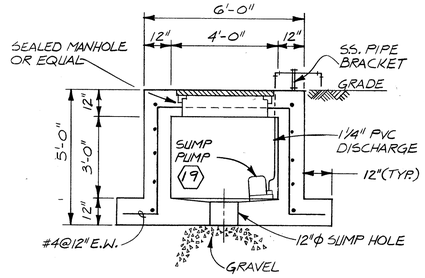

## INSIDE TANK

## WALKWAY CONNECTION DETAIL AT SLUDGE BLENDING/STORAGE TANK




## SECTION A 127/127

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




NOTE:
INSTALL SUMP PUMP & DISCHARGE PIPE IN EXIST. ELEC. MANHOLES. FOR NUMBER & LOCATIONS SEE SHTS. 137 & 138.

## ELECTRICAL MANHOLE DETAIL

**RECORD DRAWING**

NOTES:
1. COVER PLATE LAYOUT & SUPPORTS SHALL BE SIMILAR TO VALVE BOX SHOWN ON SHT. 72

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
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| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 2 | 7-23-91 | RECORD DRAWING | GLB |
| 1 | 5-31-89 | REVISIED PER ADDENDUM # 2 | KRM |

DESIGNED YCL | DRAWN SGO | CHECKED SRG

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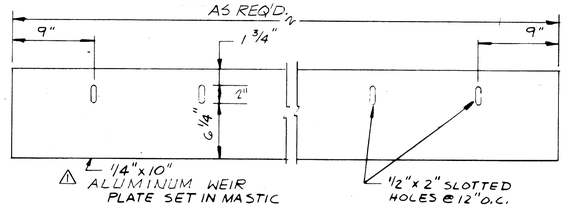
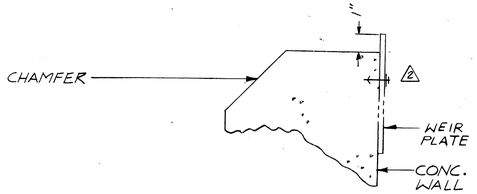
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**STANDARD MECHANICAL DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | PROJ. NO. 87054-2
SCALE: NONE | FILE NO. 13100
SHEET NO. 127 OF 166

92016

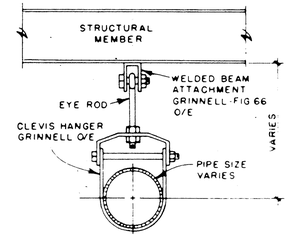


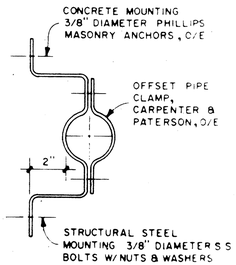

## WEIR PLATE DETAIL
SCALE : 1½" = 1'-0"

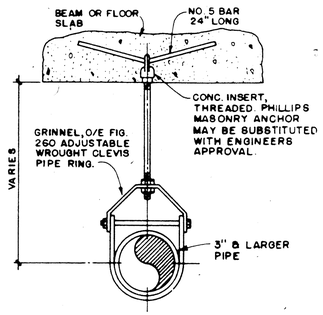



## INSTALLATION DETAIL
SCALE: 3" = 1'-0"

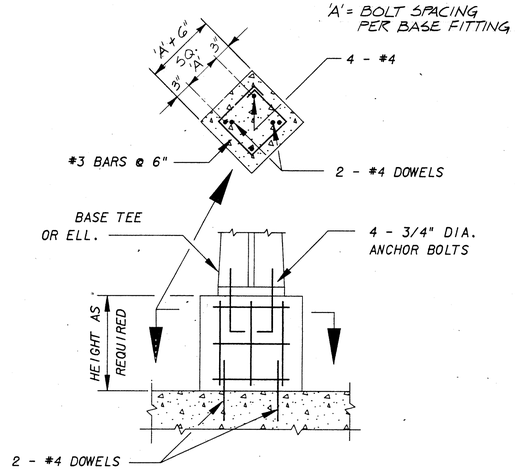
# WEIR DETAILS



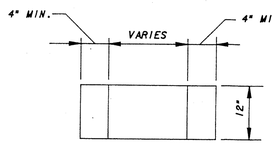



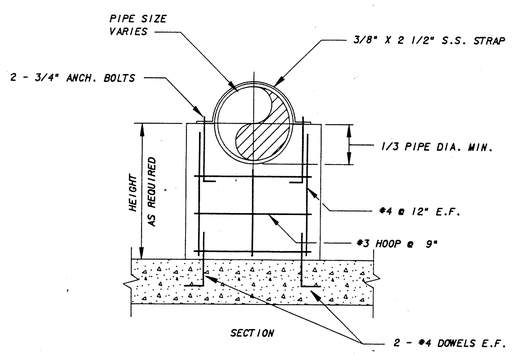

## PIPE SUPPORT DETAILS
SCALE: NONE



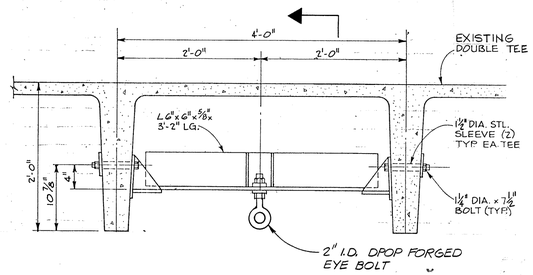

## CONCRETE PEDESTAL DETAIL
N.T.S.

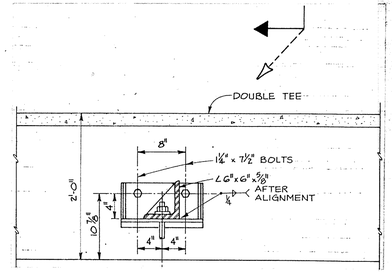



PLAN




## CONC. PIPE SUPPORT DETAIL
SCALE: NONE

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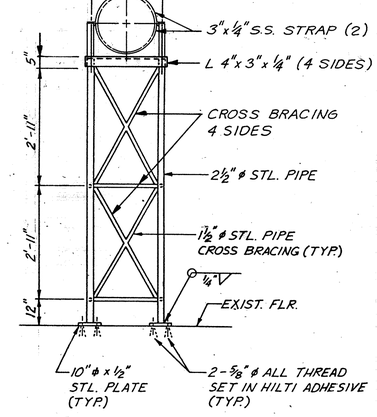
## LIFTING EYE DETAIL - INFLUENT STRUCTURE
SCALE : 1"=1'-0"




△2 END VIEW

## SILENCER SUPPORT DETAIL
NOT TO SCALE

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| △2 | 7-11-91 | RECORD DRAWING & REV. PER E.O. #21 | WLS |
| △1 | 5-31-89 | REVISIED PER ADDENDUM #1 | KRM |

DESIGNED YCL
DRAWN SGO
CHECKED SRS

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**WEIR & PIPE SUPPORT DETAILS**
CLEARWATER, FLORIDA

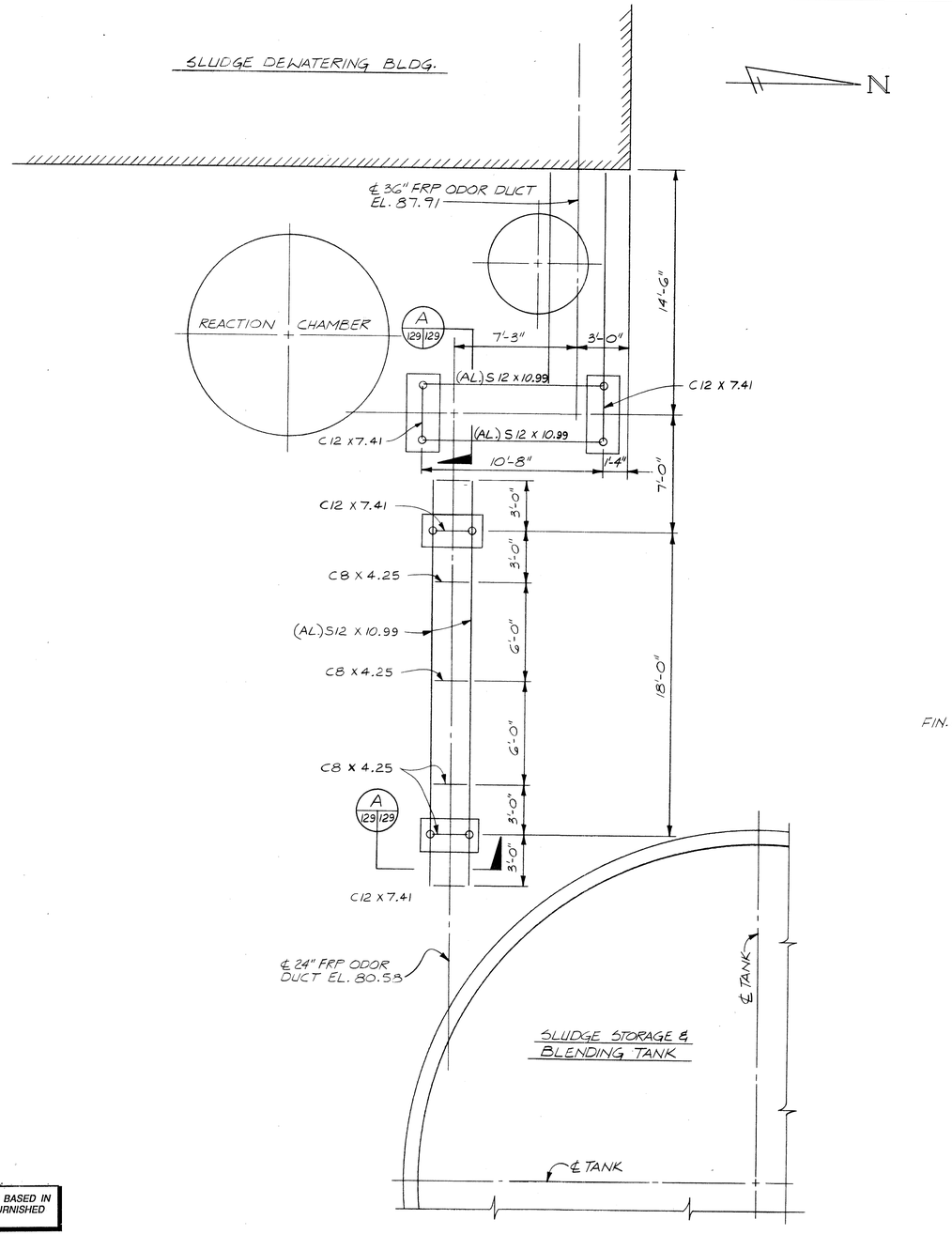
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 128 OF 166
PROJ. NO. 87054-2
FILE NO. 13101

RD 4-21-92

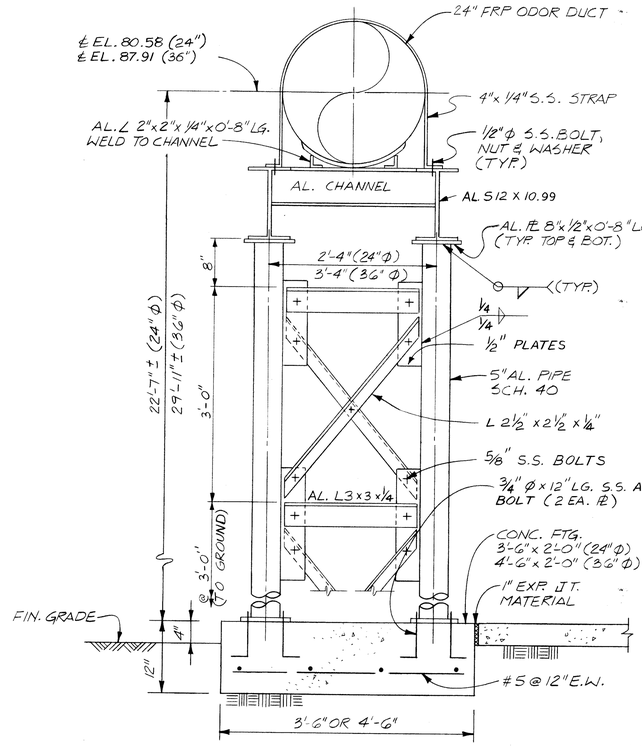
| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED - DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | "CHECK PRINT" |
| RD | RECORD DRAWING |

**RECORD DRAWING**

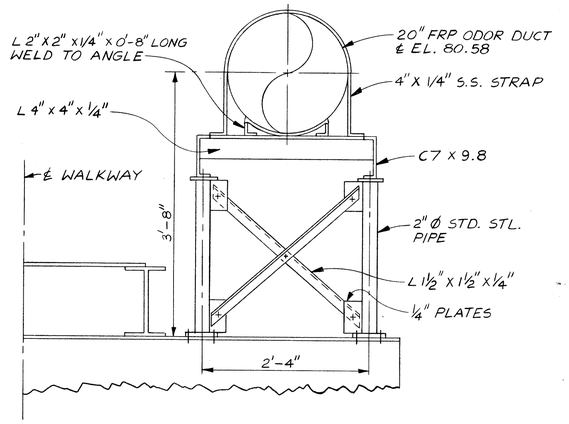
92016



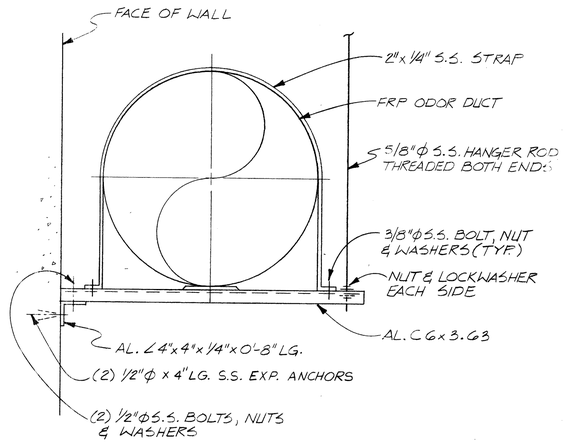

PLAN - ODOR DUCT SUPPORT FRAMING
SCALE: 1/4" = 1'-0"



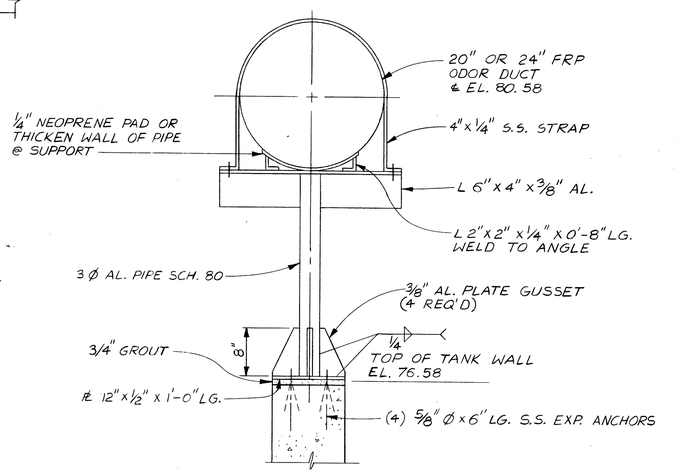

SECTION A 129|129
SCALE: 1"=1'-0"




FRP PIPE SUPPORT DETAIL - TYPE "B"
SCALE: 1" = 1'-0"




FRP PIPE SUPPORT DETAIL - TYPE 'A'
SCALE: 1" = 1'-0"




FRP PIPE SUPPORT DETAIL - TYPE 'C'
SCALE: 1" = 1'-0"

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| R | REVISED DESTROY PREVIOUS |
| H | PORTION(S) BEING |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

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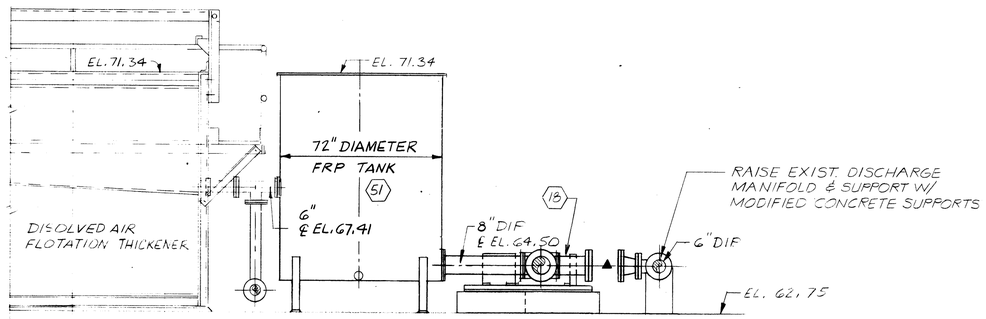
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**PIPE SUPPORT DETAILS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 129 OF 166

PROJ. NO. 87054-2
FILE NO. 13102

92016



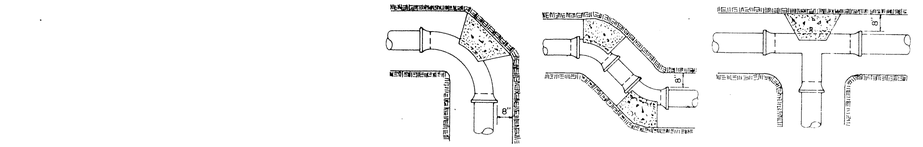

LEGEND

EXISTING

PROPOSED

SECTION

SCALE: 3/8" = 1'-0" (B 120|130)




D.I.P.

## THRUST RESTRAINT NOTES

1. THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO UNDISTURBED MATERIAL.
2. EXTEND THRUST BLOCK FULL LENGHT OF FITTINGS. PUT BOARD IN FRONT OF PLUG BEFORE POURING, CONCRETE JOINTS SHALL NOT BE COVERED BY THRUST BLOCK.
3. ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDES OF THRUST BLOCKS.
4. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTING ARRANGEMENT.
5. ALTERNATE DESIGNED RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT SUITABLE, AND/OR SOIL RESISTANCE BEARING IS LESS THAN 2,000 PSF.
6. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED WITH PRESERVATIVE.
7. PIPE 12" AND SMALLER SHALL USE MECHANICAL RESTRAINT. PIPE LARGER THAN 12" SHALL USE THRUST BLOCK RESTRAINT.

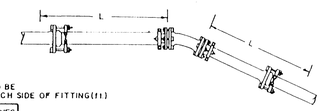
## THRUST BLOCK DETAILS

N.T.S.

THRUST RESTRAINERS ON PVC PIPE SHALL BE *UNI-FLANGE* SERIES 1300 or 1350, EBBA IRON SERIES 500 OR APPROVED EQUAL.

THE FOLLOWING JOINTS MUST BE RESTRAINED IN ALL APPLICATIONS:

1. BEND - INLET AND OUTLET
2. TEE - OUTLET BRANCH
3. OFFSETS - INLET AND OUTLET
4. CAPS
5. PLUGS
6. LAST TWO(2) JOINTS ON A DEAD END RUN (Min. 36').
7. LAST TWO(2) JOINTS ON A HYDRANT RUNOUT (Min 36').
2 8. GRAVITY LINES




L - MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTING(ft)

| NOM PIPE SIZE | ELBOWS(deg.) 11¼ | 22½ | 45 | 90 | VALVES TEES |
|---|---|---|---|---|---|
| 4 | 3 | 5 | 8 | 12 | 9 |
| 6 | 4 | 6 | 10 | 15 | 11 |
| 8 | 4 | 7 | 13 | 20 | 14 |
| 10 | 5 | 9 | 15 | 25 | 18 |
| 12 | 6 | 10 | 17 | 29 | 21 |

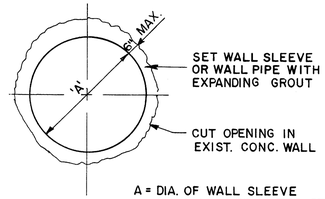
P.V.C. PIPE RESTRAINT DETAIL

N.T.S.

## SCHEDULE FOR THRUST BLOCK AREAS

| PIPE SIZE (Inches) | 90° BEND (SQ. FT.) | 45° BEND (SQ. FT.) | 22 1/2° BEND (SQ. FT.) | 11 1/4° BEND (SQ. FT.) | TEE & PLUG (SQ. FT.) | DESIGN PRESS. (P.S.I.) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 12 | 12.0 | 6.5 | 3.3 | 1.7 | 8.5 | 150 |
| 24 | 48.0 | 26.0 | 13.2 | 6.6 | 33.9 | 150 |
| 30 | 74.9 | 40.6 | 20.7 | 10.4 | 53.0 | 150 |
| 36 | 107.9 | 58.4 | 29.8 | 15.0 | 76.3 | 150 |
| 42 | 0.7 | 0.4 | 0.2 | 0.1 | 103.9 | 150 |
| 48 | 0.7 | 0.4 | 0.2 | 0.1 | 135.6 | 150 |
| | | | | | | |

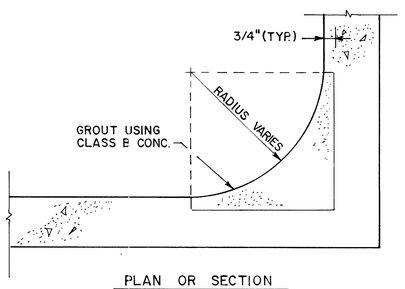
NOTE: THRUST BLOCK AREAS COMPUTED ON BASIS OF 2,000 LBS. PER SQ. FT. SOIL RESISTANCE (2,000 MIN.) BEARING. SEE NOTE 5.




A = DIA. OF WALL SLEEVE OR WALL PIPE WATER STOP

## DETAIL- INSTALLATION OF PIPE IN EXIST. CONCRETE WALL

N.T.S.




PLAN OR SECTION

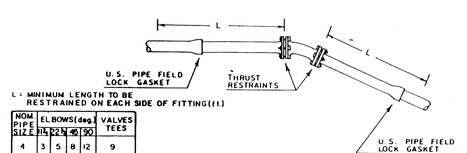
## CONCRETE FILLET DETAIL

N.T.S.

THRUST RESTRAINT ON SLIPJOINT DUCTILE IRON PIPE SHALL BE U.S. PIPE FIELD LOCK GASKETS OR APPROVED EQUAL. THRUST RESTRAINT ON DUCTILE IRON FITTINGS SHALL BE PROVIDED BY THE USE OF STANDARD SET SCREW TYPE RETAINER GLANDS AND MECHANICAL JOINT FITTINGS

THE FOLLOWING JOINTS MUST BE RESTRAINED IN ALL APPLICATIONS:

1. BEND - INLET AND OUTLET
2. TEE - OUTLET BRANCH
3. OFFSETS - INLET AND OUTLET
4. CAPS
5. PLUGS
6. LAST TWO(2) JOINTS ON A DEAD END RUN (Min. 36')
7. LAST TWO(2) JOINTS ON A HYDRANT RUNOUT (Min. 36').




L = MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTING(ft)

| NOM PIPE SIZE | ELBOWS(deg.) 11¼ | 22½ | 45 | 90 | VALVES TEES |
|---|---|---|---|---|---|
| 4 | 3 | 5 | 8 | 12 | 9 |
| 6 | 4 | 6 | 10 | 15 | 11 |
| 8 | 4 | 7 | 13 | 20 | 14 |
| 10 | 5 | 9 | 15 | 25 | 18 |
| 12 | 6 | 10 | 17 | 29 | 21 |

DUCTILE IRON PIPE RESTRAINT DETAIL

N.T.S.

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| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 2 | 5-31-89 | REVISED PER ADDENDUM #2 | KRM |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | KRM |

DESIGNED YCL | DRAWN RSD 12 | CHECKED YCL

ENGINEER OF RECORD

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**Briley, Wild & Associates, Inc.**
CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

**THRUST BLOCK & RESTRAINT DETAILS & MISC. DETAILS**

CLEARWATER, FLORIDA

DATE: OCT. 1988 | PROJ. NO. 87054-2
SCALE: AS SHOWN | FILE NO. 13103
SHEET NO. 130 OF 166

92016

## EQUIPMENT SCHEDULE

| ITEM | NAME | LOCATION | TYPE | QTY. | RATING CAPACITY | RATING DISCH PRESS | MAX. SPEED | DRIVE | HP | SPECIFICATION SECTION | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MECHANICAL SCREENS | INFLUENT STRUCTURE | | 3 | | | | | 1.5 | 11330 | PARKSON AQUA-GUARD AG-S-A-75 |
| 2 | VOID | | | | | | | | | | |
| 3 | GRIT REMOVAL EQUIPMENT | INFLUENT STRUCTURE | | 2 | | | | | 1/2 | 11320 | WEMCO HYDROGRITTER |
| 4 | PRIMARY SLUDGE THICKENER | INFLUENT STRUCTURE | | 4 | | | | | 0.5 | 11353 | ENVIREX MODEL F20LT |
| 5 | SCREENING CONVEYOR | INFLUENT STRUCTURE | | 1 | | | | | 2.0 | 11330 | LAIDLAW |
| 6 | THICKENED PRIMARY SLUDGE PUMPS | INFLUENT STRUCTURE | | 4 | | | | | 5 | 11310 | ROBBINS & MEYERS - MOYNO 1E02261-CDQ-DAA |
| 7 | CDCR CONTROL SYSTEM | INFLUENT STRUCTURE AREA | | | | | | | - | 11515 | QUAD CHEMTACT EMISSION CONTROL SYSTEM |
| | REACTION CHAMBER | INFLUENT STRUCTURE AREA | | 1 | | | | | - | 11515 | QUAD CHEMTACT EMISSION CONTROL SYSTEM |
| | WATER SOFTENER | INFLUENT STRUCTURE AREA | | 1 | | | | | - | 11515 | CULLIGAN N-8 |
| | AIR COMPRESSORS | INFLUENT STRUCTURE AREA | | 2 | | | | | 15 | 11515 | GARDNER-DENVER MODEL EJB |
| | CONTROL PANEL | INFLUENT STRUCTURE AREA | | 1 | | | | | - | 11515 | QUAD |
| | LIQUID METERING PANEL | INFLUENT STRUCTURE AREA | | 1 | | | | | - | 11515 | QUAD |
| | EXHAUST FAN | INFLUENT STRUCTURE AREA | | 1 | | | | | 10 | 11515 | HARTZELL MODEL 35-44-EN3-S |
| 8 | CHEMICAL STORAGE TANK | INFLUENT STRUCTURE CDCR CONTROL | | 1 | | | | | - | 13414 | DELTA |
| 9 | FERMENTATION TANK MIXERS | FERMENTATION TANKS | | 4 | | | | | 15 | 11385 | EIMCO PMD MODEL 15 STM |
| 10 | FIRST ANOXIC TANK MIXERS | FIRST ANOXIC TANKS | | 4 | | | | | 25 | 11385 | EIMCO PMD MODEL 25 STM |
| 11 | SCREW PUMPS | SCREW LIFT STATION | | 5 | | | | | 125 | 11313 | PARKSON 84-INCH DIAMETER |
| 12 | OXIDATION REACTOR AERATORS | OXIDATION REACTORS | | 4 | | | | | 125 | 11378 | EIMCO PMD 125/65 HP LSC |
| 13 | SECOND ANOXIC TANK MIXERS | SECOND ANOXIC TANKS | | 20 | | | | | 7.5 | 11385 | EIMCO PMD MODEL 7.5 STM |
| 14 | FINE BUBBLER DIFFUSERS | REAERATION TANKS | | 760 | | | | | - | 11382 | PARKSON |
| 15 | CIRCULAR SLUDGE COLLECTION EQUIPMENT | FINAL CLARIFIERS | | 4 | | | | | 0.5 | 11352 | ENVIREX TOW BRO MODEL H40 LT |
| 16 | PNEUMATIC EJECTORS | FINAL CLARIFIERS | | 4 | | | | | - | 11342 | JAMES EJECTOR 50 GAL. LBC |
| 17 | RETURN ACTIVATED SLUDGE PUMPS | NEW FINAL CLARIFIERS PUMP HOUSE | | 2 | | | | | 50 | 11310 | ALLIS-CHALMERS 12X12 15 NSY |
| 18 | WASTE ACTIVATED SLUDGE PUMPS | FINAL CLARIFIERS PUMP HOUSE | | 4 | | | | | 10 | 11310 | ROBBINS & MEYERS-MOYNO 1G065GI-CDQ-DAA |
| | DAF THICKENER SLUDGE PUMP | DAF THICKENER | | 2 | | | | | 10 | 11310 | ROBBINS & MEYERS-MOYNO 1G065GI-CDQ-DAA |
| | PRIMARY SLUDGE PUMPS | PRIMARY CLARIFIER PUMP HOUSE | | 3 | | | | | 15 | 11307 | WEMCO MODEL C |
| 19 | SUMP PUMPS / SAMPLE PUMPS | FINAL CLARIFIER PUMP HOUSE | | 1 | | | | | 0.5 | 15465 | PROSSER/ENPO SPRINT II |
| | | EFFLUENT FILTERS | | 3 | | | | | 0.5 | 15465 | PROSSER/ENPO SPRINT II |
| | | SCUM EJECTOR PITS | | 4 | | | | | 0.5 | 15465 | PROSSER/ENPO SPRINT II |
| | | EQUALIZATION TANK VALVE BOX | | 1 | | | | | 0.5 | 11310 | PROSSER/ENPO SPRINT II |
| | | YARD ELECTRICAL PULL BOXES | | 11 | | | | | 0.33 | 15465 | PROSSER/ENPO MODEL 1600 |
| | | EFFLUENT IRRIGATION STORAGE TANK | | 1 | | | | | 0.33 | 15465 | ENPO MODEL 1600 |
| | | FLOW DIVERSION STRUCTURAL | | 1 | | | | | 0.33 | 15465 | PROSSER/ENPO MODEL 1600 |
| 20 | BRIDGE CRANE AND HOIST | FINAL CLARIFIER PUMP HOUSE | | 1 | | | | | 2.5 | 14300 | CLEVELAND TRAMRAIL |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21 | SLUDGE COLLECTION HEADER & SCUM TROUGHS | FINAL CLARIFIERS | | 4 | | | | | - | 11352 | ENVIREX TOW-BRO |
| 22 | TERTIARY FILTER | EFFLUENT FILTERS | | 4 | | | | | - | 11366 | ZIMPRO HYDROCLEAR |
| 23 | FLOW EQUALIZATION PUMPS | EFFLUENT FILTERS | | 3 | | | | | 75 | 11213 | PEABODY FLOWAY 22 BKH |
| 24 | AIR COMPRESSORS | EFFLUENT FILTERS | | 2 | | | | | 5 | 15483 | CHAMPION MODEL HR7-12 |
| 25 | BELT FILTER PRESS SLUDGE FEED PUMPS | SLUDGE BLENDING TANKS | | 4 | | | | | 10 | 11310 | ROBBINS & MEYERS-MYNO 1H115GI-CDQ-DAA |
| 26 | SLUDGE BLENDING TANK AGITATORS | SLUDGE BLENDING TANKS | | 2 | | | | | 20 | 11350 | EIMCO PMD |
| 27 | LABORATORY EQUIPMENT | SLUDGE DEWATERING BUILDING | | | | | | | - | | |
| | OVEN | SLUDGE DEWATERING BUILDING | | 1 | | | | | - | 12350 | FISHER SCIENTIFIC MODEL 838F |
| | DESICATOR | SLUDGE DEWATERING BUILDING | | 1 | | | | | - | 12350 | FISHER SCIENTIFIC MODEL 08-645-11 |
| | ANALYTICAL BALANCE | SLUDGE DEWATERING BUILDING | | 1 | | | | | - | 12350 | FISHER SCIENTIFIC MODEL AE 200 |
| | BALANCE TABLE | SLUDGE DEWATERING BUILDING | | 1 | | | | | - | 12350 | FISHER SCIENTIFIC MODEL 01-994-5 |
| | BALANCE REST | SLUDGE DEWATERING BUILDING | | 1 | | | | | - | 12350 | FISHER SCIENTIFIC MODEL 01-914-45 |
| | WAST WATER RESPIROMETER | TO BE DETERMINED BY OWNER | | 1 | | | | | - | 12355 | TECH-LINE MODEL 010-500 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 28 | CDCR CONTROL SYSTEM | SLUDGE DEWATERING SYSTEM | | | | | | | - | 11515 | QUAD CHAMTACT EMISSION CONTROL |
| | REACTION CHAMBER | SLUDGE DEWATERING SYSTEM | | | | | | | - | 11515 | QUAD CHAMTACT EMISSION CONTROL |
| | WATER SOFTENER | SLUDGE DEWATERING SYSTEM | | | | | | | - | 11515 | CULLIGAN N-8 |
| | AIR COMPRESSORS | SLUDGE DEWATERING SYSTEM | | 2 | | | | | 30 | 11515 | GARDNER-DENVER MODEL EJB |
| | CONTROL PANEL | SLUDGE DEWATERING SYSTEM | | | | | | | - | 11515 | QUAD |
| | LIQUID METERING PANEL | SLUDGE DEWATERING SYSTEM | | | | | | | - | 11515 | QUAD |
| | EXHAUST FAN | SLUDGE DEWATERING SYSTEM | | 1 | | | | | 10 | 11514 | HARTZELL MODEL 35-54-EP3-S |
| 29 | CHEMICAL STORAGE TANK | SLUDGE DEWATERING BLDG CDCR CONTROL AREA | | 1 | | | | | - | 13414 | DELTA |
| 30 | AIR COMPRESSORS | SLUDGE DEWATERING BUILDING | | 2 | | | | | 2 | 15483 | CHAMPION MODEL HR3-6 |
| 31 | REUSE WATER BOOSTER PUMPS | SLUDGE DEWATERING BUILDING | | 3 | | | | | 10 | 11214 | PEERLESS MODEL PV 3X3X10B-BF |
| 32 | | | | | | | | | | | |
| 33 | POLYMER DILUTION & FEED SYSTEM | SLUDGE DEWATERING BUILDING | | 3 | | | | | 1 | 11247 | STRANCO POLYBLEND MODEL PB 2400-4.5 |
| 34 | ELEVATOR | SLUDGE DEWATERING BUILDING | | 1 | | | | | 20 | 14225 | MIAMI DOVER MODEL DLP |
| 35 | TRUCK SCALE | SLUDGE DEWATERING BUILDING | | 1 | | | | | - | 10881 | MASSTRON TRUCKMATE MODEL MV6011 |
| 36 | DIGITAL INDICATOR | SLUDGE DEWATERING BUILDING | | 1 | | | | | - | 10881 | TOLEDO 8530 |

## EQUIPMENT SCHEDULE (CONTINUED)

| ITEM | NAME | LOCATION | TYPE | QTY. | RATING CAPACITY | RATING DISCH PRESS | MAX. SPEED | DRIVE | HP | SPECIFICATION SECTION | BASIS OF DESIGN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 37 | PRINTER | SLUDGE DEWATERING BUILDING | | 1 | | | | | - | 10881 | TOLEDO 8855 |
| 38 | BELT FILTER PRESSES | SLUDGE DEWATERING BUILDING | | 3 | | | | | 5 | 11360 | ARUS-ANDRITZ MODEL CPF-2.2 SMX(S7) |
| 39 | PRESS DISCHARGE CONVEYOR | SLUDGE DEWATERING BUILDING | | 3 | | | | | 1 | 14550 | KELLER SALES & ENGINEERING, INC. |
| 40 | REVERSING CONVEYOR | SLUDGE DEWATERING BUILDING | | 1 | | | | | 1 | 14550 | KELLER SALES & ENGINEERING, INC. |
| 41 | SHUTTLE CONVEYOR | SLUDGE DEWATERING BUILDING | | 2 | | | | | 1 & 0.5 | 14550 | KELLER SALES & ENGINEERING, INC. |
| 42 | SCREW CONVEYOR | SLUDGE DEWATERING BUILDING | | 1 | | | | | 1 | 14550 | KELLER SALES & ENGINEERING, INC. |
| 43 | BRIDGE CRANE & HOIST | SLUDGE DEWATERING BUILDING | | 1 | | | | | 5.5 | 14300 | CLEVELAND TRAMRAIL SCE 04575020 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 44 | INPLANT PUMP STATION | YARD | | 2 | | | | | 5 | 11312 | FLYGT COMPANY MODEL CP 3102 |
| | | YARD | | 3 | | | | | 20 | 11312 | FLYGT COMPANY MODEL CP 3152 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 45 | FLOW MEASUREMENT DEVICE | | | | | | | | | | |
| | PARSHALL FLUME | FERMENTATION TANKS | | 1 | | | | | - | 06617 | KENCO PLASTICS |
| | | INFLUENT STRUCTURE | | 1 | | | | | - | 06617 | KENCO PLASTICS |
| | PROPELLER METER | EFFLUENT FILTERS | | 1 | | | | | - | 13320 | SPARLING MODEL FM 142 (42") |
| | | EQUALIZATION RETURN VALVE BOX | | 1 | | | | | - | 13320 | SPARLING MODEL FM 183 (20") |
| | | EQUALIZATION PUMP DISCHARGE | | 1 | | | | | - | 13320 | SPARLING MODEL FM 183 (24") |
| 46 | EYEWASH & EMERGENCY SHOWER | THICKENER CONTROL BUILDING | | 1 | | | | | - | 15401 | BRADLEY S1931-SB-SCS |
| | | SLUDGE DEWATERING BUILDING | | 2 | | | | | - | 15401 | BRADLEY S1931-SB-SCS |
| | | | | | | | | | | | |
| 47 | GENERATOR | INFLUENT STRUCTURE | | 1 | | | | | - | 16210 | ONAN MODEL DL6B (20 KW) |
| | | MCC GENERATOR BUILDING | | 1 | | | | | - | 16210 | CATIPILLAR MODEL 3406B (350 KW) |
| | | EFFLUENT FILTER GENERATOR BUILDING | | 1 | | | | | - | 16210 | CATIPILLAR MODEL 3508 (750 KW) |
| | | | | 1 | | | | | | | |
| 48 | VARIABLE FREQUENCY DRIVES | FINAL CLARIFIER PUMP HOUSES | | 4 | | | | | 10 | 16160 | ALLEN-BRADLEY MODEL 1334 |
| | | SLUDGE DEWATERING BUILDING | | 4 | | | | | 10 | 16160 | ALLEN-BRADLEY MODEL 1334 |
| | | EFFLUENT FILTER PUMP HOUSE | | 3 | | | | | 75 | 16160 | ALLEN-BRADLEY MODEL 1334 |
| 49 | FLOMATCHER | NEW FINAL CLARIFIER PUMP HOUSE | | 2 | | | | | 50 | 13317 | FLOMATCHER, INC. MODEL S-2000 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 50 | CHLORINATOR | CONTROL BUILDING | FLOW PROPORTIONAL | 1 | | | | | | 11261 | ADVANCE MODEL 4114C |
| | CHLORINATOR | CONTROL BUILDING | MANUAL | 1 | | | | | | 11261 | ADVANCE MODEL 4102C |
| | RESIDUAL ANALYZER | EFFLUENT IRRIGATION STORAGE TANK | | 1 | | | | | | 11264 | ADVANCE SERIES 1870E |
| | | | | | | | | | | | |
| 51 | SLUDGE HOLDING TANK | DAF SLUDGE FACILITY | | 1 | | | | | | 13414 | DELTA |
| 52 | SLUDGE XFER PUMPS | YARD | | 2 | | | | | 15 | 11310 | ROBBINS & MEYERS-MOYNO 1H115GI |
| 53 | SEPTAGE PUMPS | SEPTAGE HANDLING BLDG. | | 2 | 50 GPM @ | 70 TDH | | | | | |
| 54 | IN LINE GRINDER | SEPTAGE HANDLING BLDG. | | 2 | 50 GPM | N/A | | | | | |

THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

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# RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 3 | 7-10-91 | RECORD DRAWING | |
| 2 | 5-31-89 | REVISED PER ADDENDUM #2 | KRM |
| 1 | 5-31-89 | REVISED PER ADDENDUM #1 | KRM |

DESIGNED YCL | DRAWN YZ | CHECKED YCL

ENGINEER OF RECORD:

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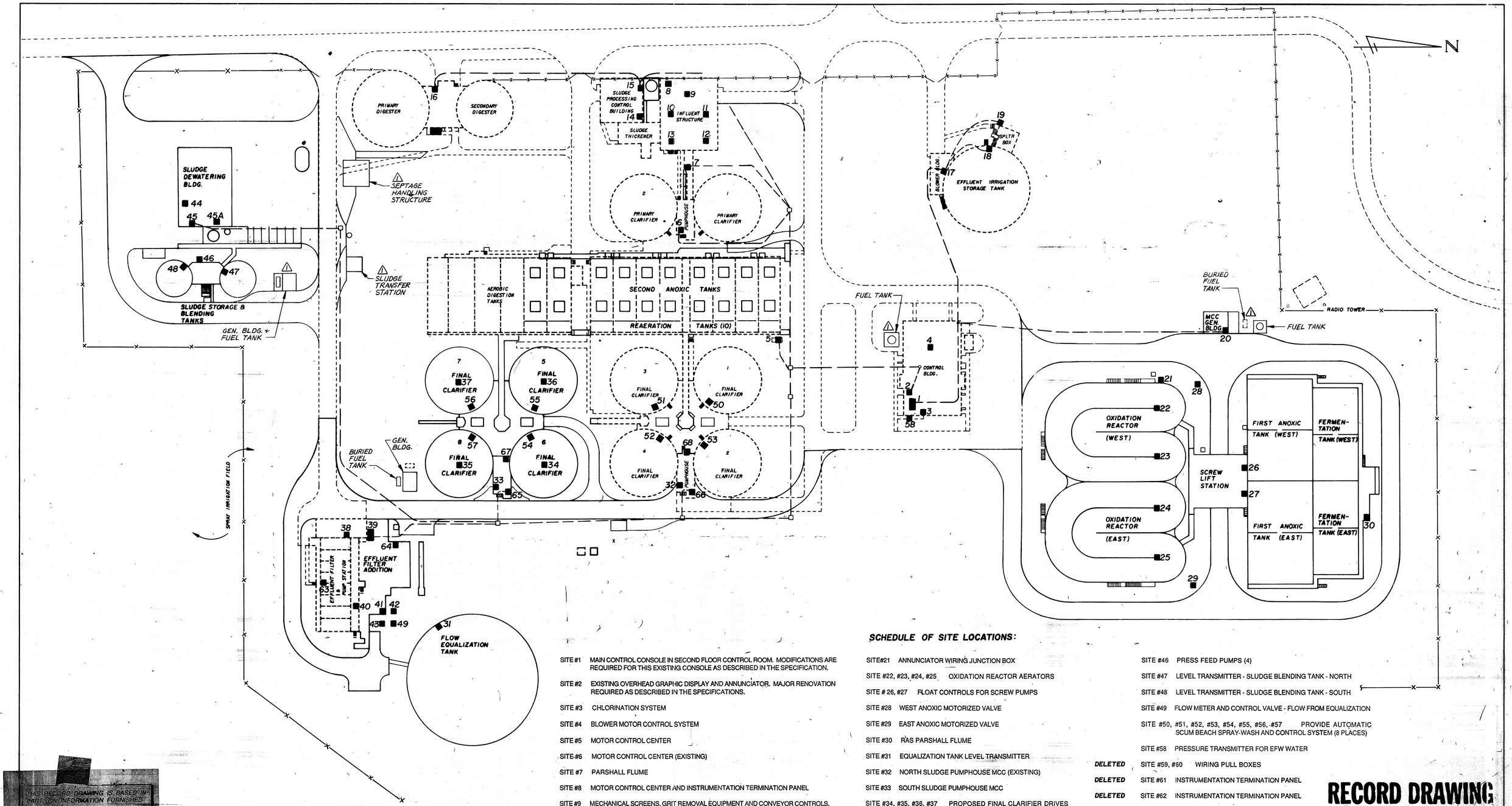
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EQUIPMENT SCHEDULE
CLEARWATER, FLORIDA

DATE: NOV. 1988 | PROJ. NO. 87054-2
SCALE: NONE | FILE NO. 13103-A
SHEET NO. 130A OF 166

92016

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NOTES:

1. REFER TO SECTION 13320 OF THE SPECIFICATIONS FOR SPECIAL INSTRUMENTATION AND WIRING REQUIREMENTS.
2. REFER TO SHEET 137 FOR INSTRUMENTATION YARD CONDUIT WIRING REQUIREMENTS.
3. INSTRUMENTATION CONDUCTORS SHALL BE FURNISHED UNDER DIVISION 13; INSTALLATION OF CONDUCTORS SHALL BE UNDER DIVISION 16; TERMINATION OF CONDUCTORS SHALL BE UNDER DIVISION 13.

SITE #1 MAIN CONTROL CONSOLE IN SECOND FLOOR CONTROL ROOM. MODIFICATIONS ARE REQUIRED FOR THIS EXISTING CONSOLE AS DESCRIBED IN THE SPECIFICATION.

SITE #2 EXISTING OVERHEAD GRAPHIC DISPLAY AND ANNUNCIATOR. MAJOR RENOVATION REQUIRED AS DESCRIBED IN THE SPECIFICATIONS.

SITE #3 CHLORINATION SYSTEM

SITE #4 BLOWER MOTOR CONTROL SYSTEM

SITE #5 MOTOR CONTROL CENTER

SITE #6 MOTOR CONTROL CENTER (EXISTING)

SITE #7 PARSHALL FLUME

SITE #8 MOTOR CONTROL CENTER AND INSTRUMENTATION TERMINATION PANEL

SITE #9 MECHANICAL SCREENS, GRIT REMOVAL EQUIPMENT AND CONVEYOR CONTROLS.

SITE #10,#11,#12,#13 SLUDGE THICKENER MECHANISMS

SITE #14 FLOTATION THICKENER CONTROL PANEL

SITE #15 ODOR CONTROL SYSTEM CONTROL PANEL

SITE #16 ANAEROBIC DIGESTER MOTOR CONTROL PANEL

SITE #17 MOTOR CONTROL CENTER (EXISTING)

SITE #18 STORAGE TANK FLOAT CONTROL LEVEL TRANSMITTER

SITE #19 IRRIGATION PUMPS MCC

SITE #20 MOTOR CONTROL CENTER

## SCHEDULE OF SITE LOCATIONS:

SITE #21 ANNUNCIATOR WIRING JUNCTION BOX

SITE #22, #23, #24, #25 OXIDATION REACTOR AERATORS

SITE # 26, #27 FLOAT CONTROLS FOR SCREW PUMPS

SITE #28 WEST ANOXIC MOTORIZED VALVE

SITE #29 EAST ANOXIC MOTORIZED VALVE

SITE #30 RAS PARSHALL FLUME

SITE #31 EQUALIZATION TANK LEVEL TRANSMITTER

SITE #32 NORTH SLUDGE PUMPHOUSE MCC (EXISTING)

SITE #33 SOUTH SLUDGE PUMPHOUSE MCC

SITE #34, #35, #36, #37 PROPOSED FINAL CLARIFIER DRIVES

SITE #38 EXISTING MCC AND FILTER CONTROL PANEL

SITE #39 PROPOSED EXPANDED MCC AND FILTER CONTROL PANEL

SITE #40 FILTER INFLUENT CHANNEL LEVEL TRANSMITTER

SITE #41 FLOW EQUALIZATION PUMPS

SITE #42 FLOW METER - FILTER INFLUENT FLOW

SITE #43 FLOW METER - FLOW PUMPED TO EQUALIZATION

SITE #44 SLUDGE PRESS CONTROL PANELS (3)

SITE #45 MOTOR CONTROL CENTER - INSTRUMENTATION TERMINATION PANEL

SITE 45A ODOR CONTROL SYSTEM CONTROL

SITE #46 PRESS FEED PUMPS (4)

SITE #47 LEVEL TRANSMITTER - SLUDGE BLENDING TANK - NORTH

SITE #48 LEVEL TRANSMITTER - SLUDGE BLENDING TANK - SOUTH

SITE #49 FLOW METER AND CONTROL VALVE - FLOW FROM EQUALIZATION

SITE #50, #51, #52, #53, #54, #55, #56, #57 PROVIDE AUTOMATIC SCUM BEACH SPRAY-WASH AND CONTROL SYSTEM (8 PLACES)

SITE #58 PRESSURE TRANSMITTER FOR EFW WATER

DELETED SITE #59, #60 WIRING PULL BOXES

DELETED SITE #61 INSTRUMENTATION TERMINATION PANEL

DELETED SITE #62 INSTRUMENTATION TERMINATION PANEL

SITE #63 SELECTED FILTER LEVEL TRANSMITTER

SITE #64 CLEARWELL LEVEL TRANSMITTER

SITE #65 SOUTH WASTE SLUDGE VARIABLE SPEED DRIVES (2)

SITE #66 NORTH WASTE SLUDGE VARIABLE SPEED DRIVES (2)

SITE #67 RETURN SLUDGE WELL LEVEL TRANSMITTER (SOUTH)

SITE #68 RETURN SLUDGE WELL LEVEL TRANSMITTER (NORTH)

# RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3-4-92 | REVISED PER E.O. #21 & RECORD DRAWING | RAP |

DESIGNED DHC | DRAWN KTB SGD | CHECKED GRS

ENGINEER OF RECORD:

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

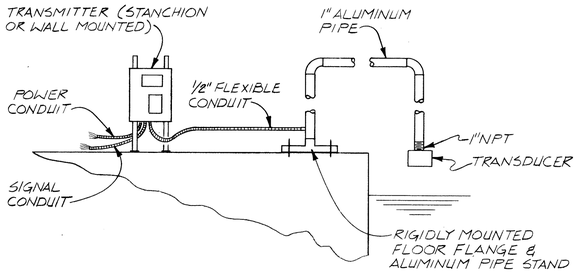
**INSTRUMENTATION - SITE PLAN**

CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 131 OF 166

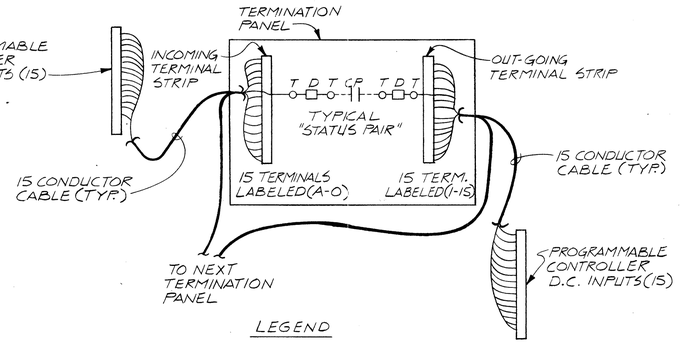
PROJ. NO. 87054-2 | FILE NO. 13104

92016




NOTES:
1. TRANSDUCER MOUNTING LOCATION & TRANSMITTER LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. A SEPERATION OF AS MUCH AS 40 FEET BETWEEN TRANSDUCER & TRANSMITTER MAY BE REQUIRED FOR OPERATOR CONVENIENCE.
3. TYPICAL FOR SITE # 18, 31, 40, 47, 48, 63, 64, 67, 68, #30 & # 7.

## LEVEL TRANSMITTER TYPICAL MOUNTING DETAIL



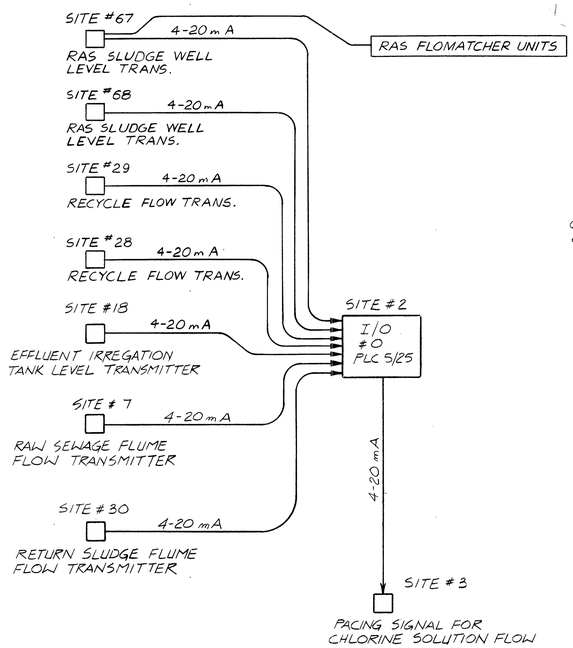

LEGEND

T = TERMINAL

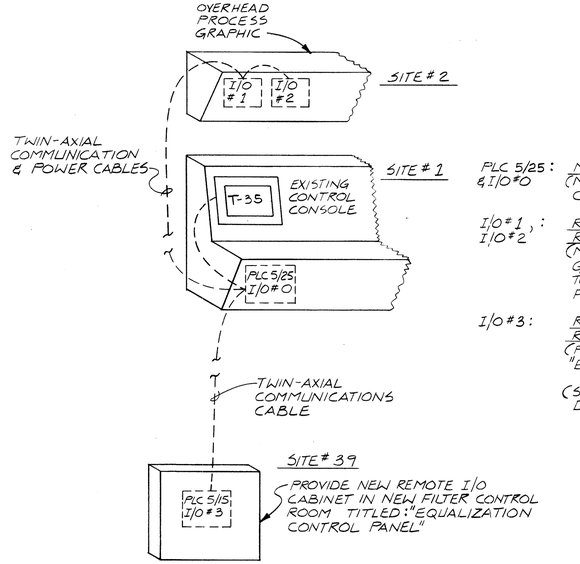
D = DIODE

CP = CONTACT PAIR FOR STATUS OR ALARM (EACH STATUS PAIR MUST USE A UNIQUE COMBINATION OF IN-COMING & OUT-GOING TERMINALS.)

## ANNUNCIATOR SYSTEM TERMINATION PANEL TYPICAL SCHEMATIC




## ANALOG INSTRUMENTATION AND SIGNAL DEVELOPMENT



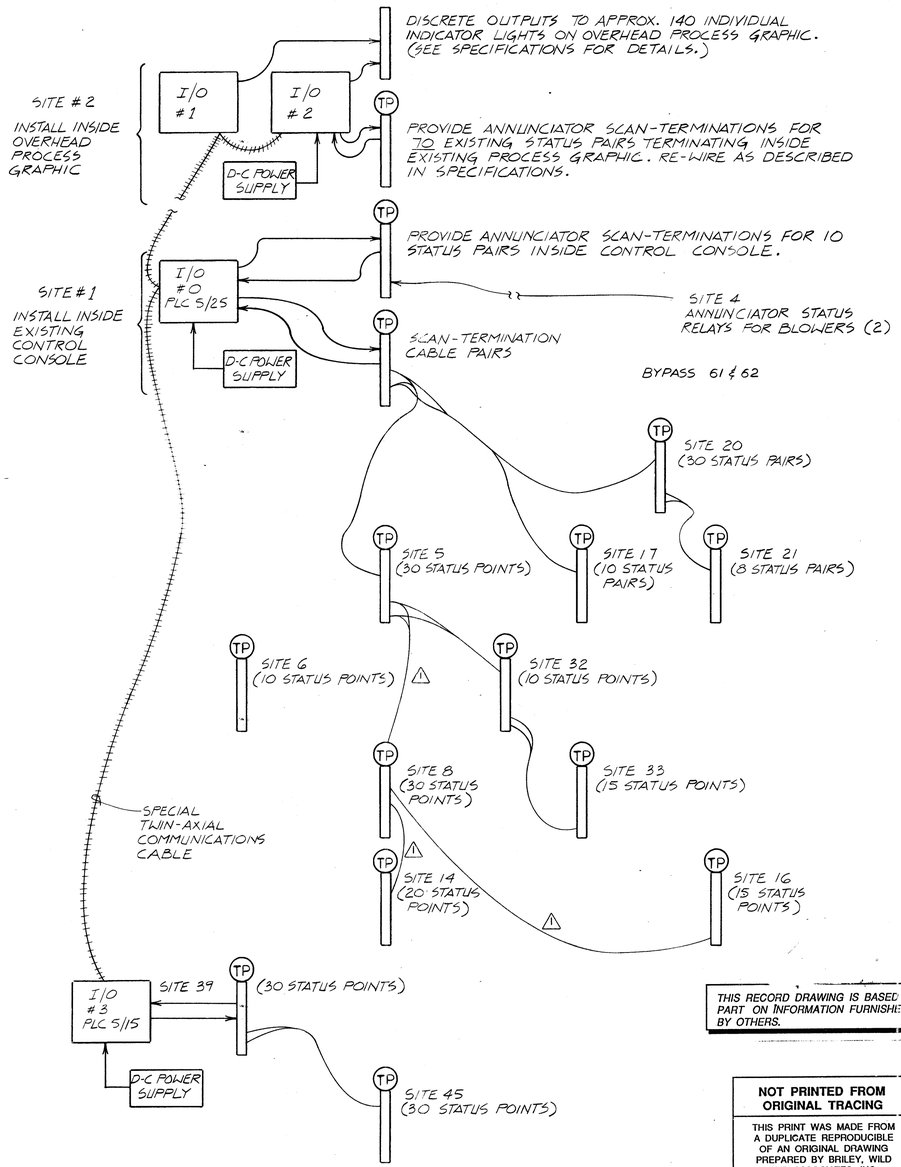

PLC 5/25 & I/O#0: MAIN PLC PROCESSOR (MOUNT INSIDE EXISTING CONTROL CONSOLE.)

I/O#1, I/O#2: REMOTE INPUT/OUTPUT RACKS #1 & #2. (MOUNT INSIDE PROCESS GRAPHIC ENCLOSURE WIRED TO GRAPHIC LAMPS & FIELD DEVICES)

I/O#3: REMOTE INPUT/OUTPUT RACK #3. (PROVIDE MOUNTED INSIDE "EQUALIZATION CNTRL. PANEL")

(SEE SPECIFICATIONS FOR CONTROLLER DETAILS & ACCESSORIES.)

## PROGRAMMABLE CONTROLLER CONFIGURATION




## ANNUNCIATOR SYSTEM WIRING LAYOUT AND PROGRAMMABLE CONTROLLER CONFIGURATION

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| 0 | RELEASED FOR CONSTRUCTION |
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| H | PORTION(S) BEING HELD |
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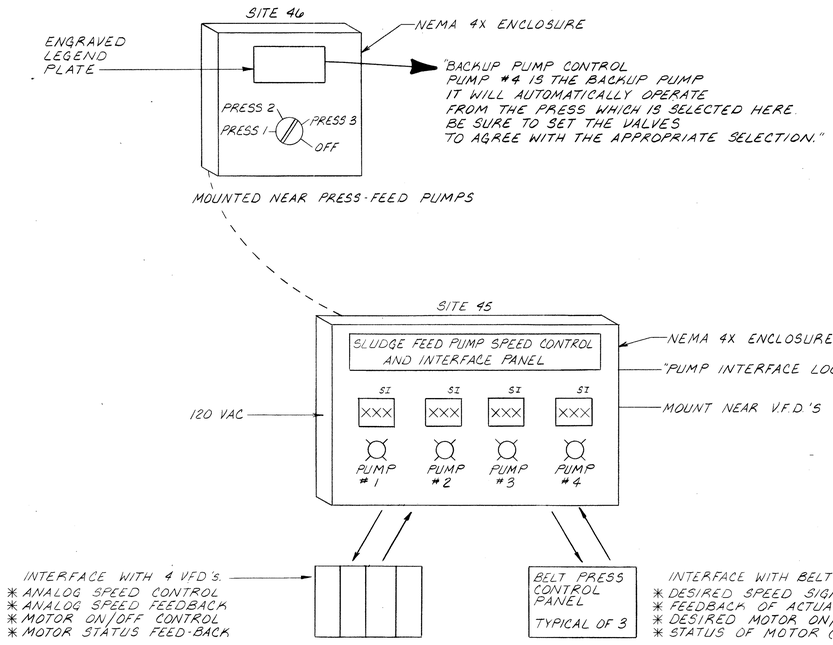
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
INSTRUMENTATION - SCHEMATICS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 132 OF 166
PROJ. NO. 87054-2
FILE NO. 13105

92016

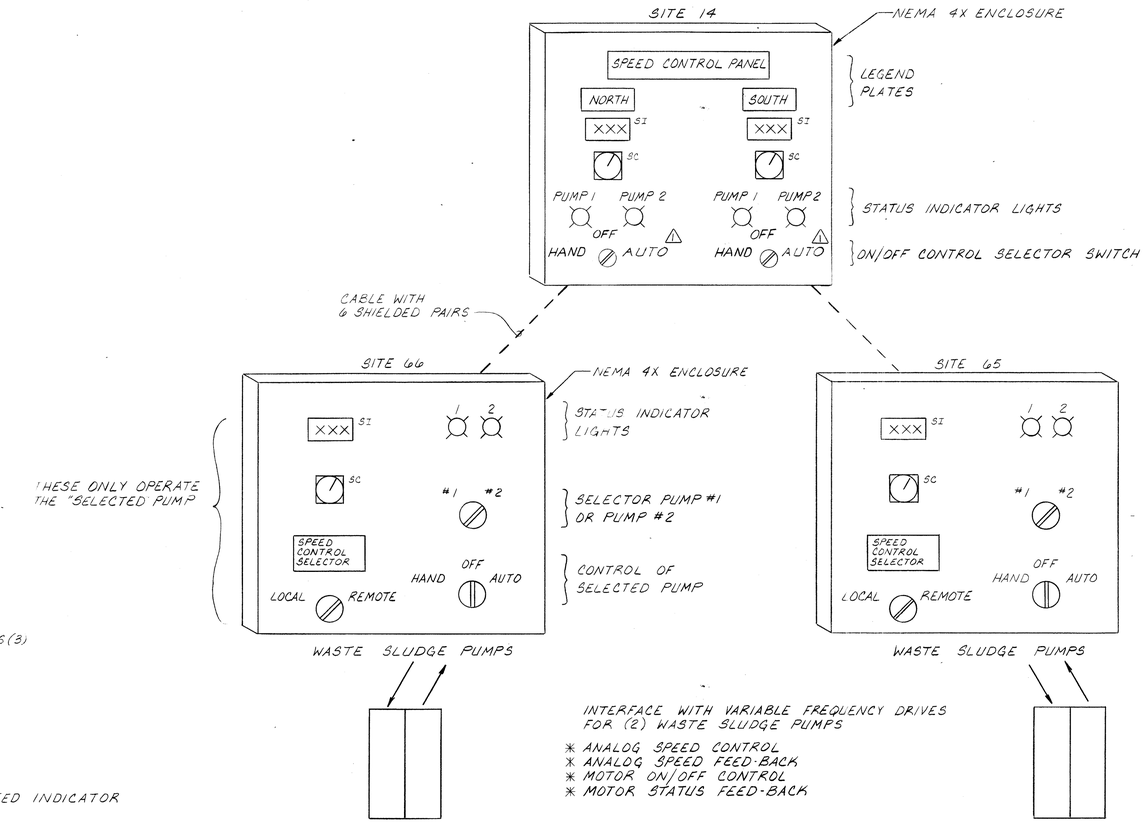



NOTE THE "PUMP INTERFACE LOGIC PANEL" SHALL CONTAIN ALL CONTROL LOGIC AND SWITCHING NECESSARY TO INTERFACE AS FOLLOWS:

EACH PRESS CONTROL PANEL SHALL BE EQUIPPED TO ADDRESS ONLY ONE PUMP.
THE BACKUP PUMP (#4) WILL BE AVAILABLE TO ANY ONE OF THE 3 PRESSES AS DETERMINED BY THE SELECTOR SWITCH.
ALL PUMP SPEED CONTROL AND MOTOR CONTROL OPERATIONS WILL BE SWITCHED BY CONTROL LOGIC TO AGREE WITH THE MANUAL SELECTION.

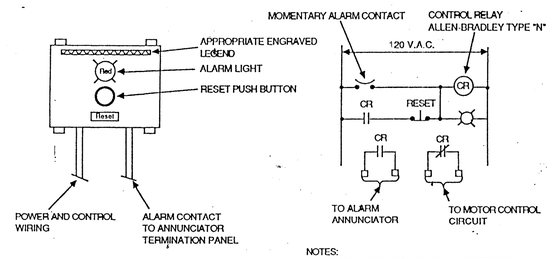
## BELT FILTER PRESS – FEED PUMP SPEED CONTROL AND BACKUP SELECTOR

LEGEND:
SI: DIGITAL SPEED INDICATOR




LEGEND
SI: DIGITAL SPEED INDICATOR 4-20 mA
SC: SPEED CONTROL DIAL - VARIABLE 4-20 mA SIGNAL SOURCE

## WASTE SLUDGE PUMPS VARIABLE SPEED CONTROL




TYPICAL OF 12
LOCATIONS: 10, 11, 12, 13, 22, 23, 24, 25, 34, 35, 36, 37

NOTES:
1. IF A LOCAL CONTROL PANEL IS OTHERWISE INCLUDED, THIS CIRCUIT MAY BE INCLUDED WITH THAT PANEL.
2. CONTROL RELAY LATCHES, AND LIGHT GLOWS WHENEVER ALARM CONTACTS CLOSE. ALARM MUST BE RESET BY MANUAL PUSH BUTTON.
3. THIS DETAIL APPLIES TO SEVERAL OF THE ALARMS FOR THIS PROJECT. SEE SPECIFICATIONS FOR DETAILED TABULATION.

ALARM LATCHING PANEL DETAIL

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**NORTHEAST ADVANCED POLLUTION CONTROL FACILITY**
**INSTRUMENTATION - SCHEMATICS**
**CLEARWATER, FLORIDA**

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 133 OF 166
PROJ. NO. 87054-2
FILE NO. 13106

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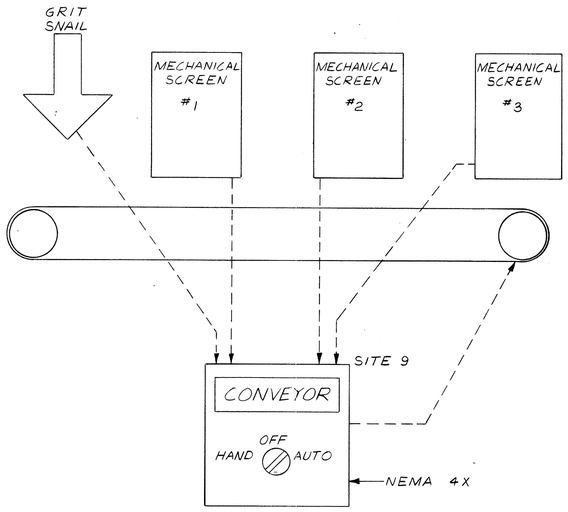
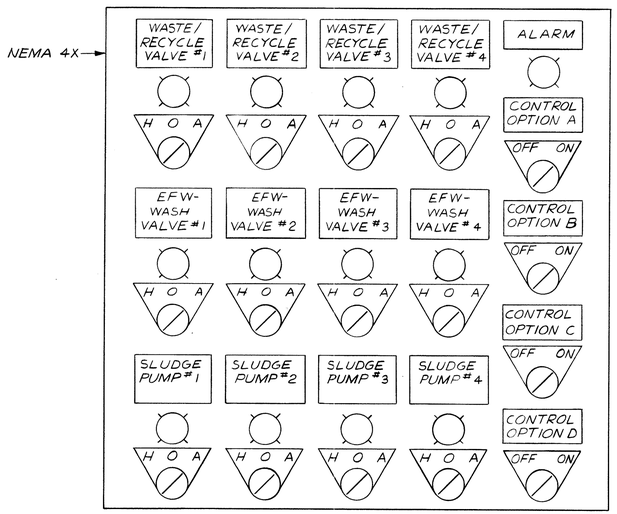
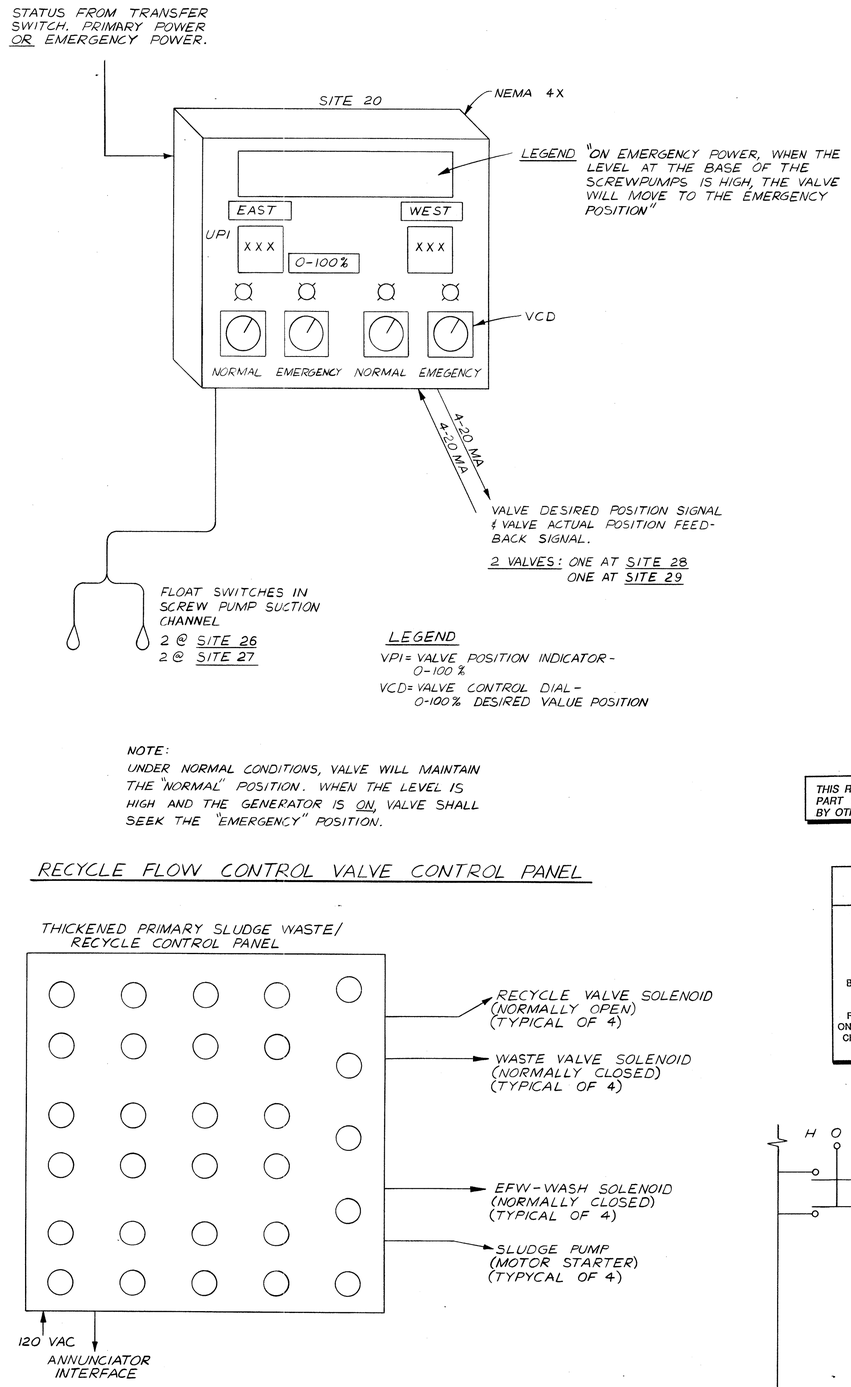



NOTE:
CONVEYOR CONTROL PANEL WILL AUTOMATICALLY OPERATE THE CONVEYOR WHENEVER ANY ONE OF THE THREE DEVICES COME ON. IT WILL CONTINUE TO RUN THROUGH A TIME DELAY OF 30 TO 60 SECONDS (ADJUSTABLE)

## HEADWORKS CONVEYOR CONTROL SYSTEM



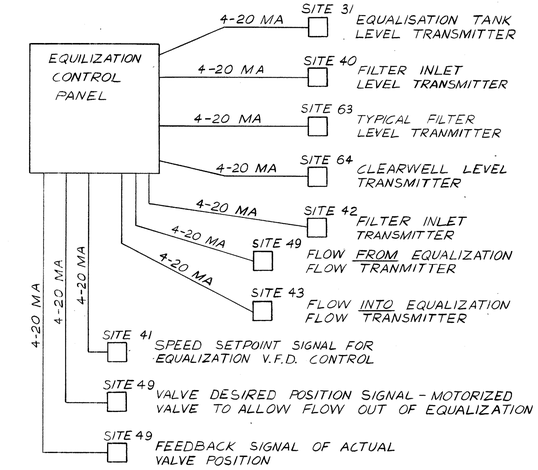

LEGEND
VPI = VALVE POSITION INDICATOR - 0-100 %
VCD = VALVE CONTROL DIAL - 0-100% DESIRED VALUE POSITION

NOTE:
UNDER NORMAL CONDITIONS, VALVE WILL MAINTAIN THE "NORMAL" POSITION. WHEN THE LEVEL IS HIGH AND THE GENERATOR IS ON, VALVE SHALL SEEK THE "EMERGENCY" POSITION.

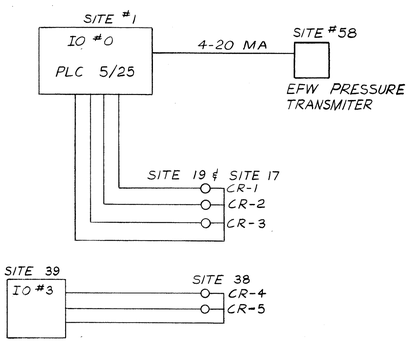
## RECYCLE FLOW CONTROL VALVE CONTROL PANEL




## THICKENED PRIMARY SLUDGE WASTE/RECYCLE CONTROL PANEL




## EQUALIZATION CONTROL SYSTEM
(LOCATED IN SITE 39)

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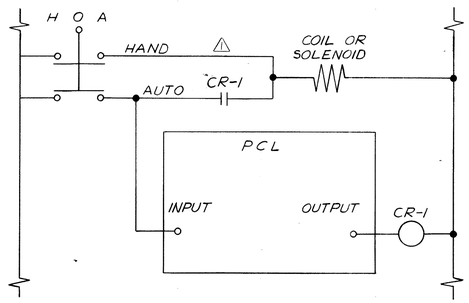
NOTE:
CR-1, THRU CR-5 ARE REMOTE RELAYS FOR AUTOMATIC OPERATION OF EFFLUENT IRRIGATION PUMPS. WIRE IN EACH RELAY OPERATE EACH OF 5 EFW PUMPS. MODIFY STARTERS FOR "HAND-OFF-AUTO" OPERATION. SEE SPECIFICATIONS FOR DETAILS.

## EFFLUENT IRRIGATION CONTROL SYSTEM

TYPICAL WIRING INTERFACE

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
INSTRUMENTATION - SCHEMATICS
CLEARWATER, FLORIDA

DATE: OCT 1988
SCALE: NONE
SHEET NO. 134 OF 166
PROJ. NO. 87054-2
FILE NO. 13107

92016

SPRAY IRRIGATION FIELD

LIGHTING MODIFICATIONS ONLY -
17 - 4' 2-LT. VAPOR TIGHT FLUOR. FIXTURES EXIST
- PROVIDE ADDITIONAL 60" DROP STEMS FOR EACH

(1) POTABLE WATER BOOSTER PUMP 5 H.P.

ELEVATOR - 20HP

(3) EFW BOOSTER PUMPS - 10 HP

(9) CONVEYORS - 1HP

(2) AIR COMPRESSORS - 2HP

SLUDGE DEWATERING BLDG.

(3) BELT FILTER PRESSES - 5HP

HOIST - 5HP

(2) ODOR CONTROL AIR COMPRESSORS - 30 H.P.

(4) SLUDGE PUMPS - 10HP

ODOR CONTROL EXHAUST FAN - 10HP

SLUDGE BLENDING TANKS

(2) SLUDGE AGITATORS - 20HP

GEN. BLDG. & FUEL TANK

PRIMARY DIGESTER

SECONDARY DIGESTER

(2) ODOR CONTROL AIR COMPRESSORS - 15HP

ODOR CONTROL EXHAUST FAN - 10HP

REMOVE 2-3 H.P. DAF THICKENER SLUDGE PUMPS
ADD (2) - 10 HP DAF THICKENER SLUDGE PUMPS

SEPTAGE HANDLING STRUCTURE

IN-PLANT PUMP STATION NO. 2

(2) - 5 H.P.

SLUDGE TRANSFER STATION

(3) MECHANICAL BAR SCREENS - 1.5HP

SAMPLE PUMP - 1.5HP

(2) GRIT DEWATERING SCREWS - 0.5HP

CONVEYOR - 0.5 HP

(2) SUMP PUMPS - 3HP

SLUDGE PROCESSING CONTROL BUILDING

SLUDGE THICKENER

INFLUENT STRUCTURE

(4) THICKENED P.S. PUMPS - 3 HP

(4) P.S. THICKENERS 1.0HP

INFLUENT STRUCTURE REMOVAL:
GRIT PUMPS - 2@ 7.5HP
GRIT CLASSIFIER - 0.75HP
ODOR CONTROL - 7.5, 0.5, 0.25HP
MECH BAR SCREENS - 2@ 0.75 HP
CONVEYOR - 0.5HP
PLUS LIGHTING MODIFICATIONS

SAMPLE PUMP - 0.25HP

(3) PRIMARY SLUDGE PUMPS - 15HP (REPLACES EXISTING)

PRIMARY CLARIFIER

PUMPHOUSE

PRIMARY CLARIFIER

LIGHTING MODIFICATIONS; MODIFICATIONS TO EXIST MCC 2001 AS SHOWN.

REMOVE - (2) EXIST DECANT LIQUOR PUMPS - 10HP (MCC 2001)

SAMPLE PUMP - 0.25 HP

AEROBIC DIGESTION TANKS

SECOND ANOXIC TANKS

REAERATION TANKS (10)

(20) SECOND ANOXIC TANK MIXERS - 7.5HP

(4) CLARIFER DRIVES - 0.75HP

7 FINAL CLARIFIER

5 FINAL CLARIFIER

3 SECONDARY CLARIFIER

1 SECONDARY CLARIFIER

CONC.

SUMP PUMP - 0.75HP

8 FINAL CLARIFIER

6 FINAL CLARIFIER

(4) SUMP PUMPS - 0.75HP

2 SECONDARY CLARIFIER

2 SECONDARY CLARIFIER

GEN. BLDG.

BURIED FUEL TANK

HOIST - 5HP

(2) WASTE SLUDGE PUMPS - 10HP

(2) RETURN SLUDGE PUMPS - 50HP

PUMPHOUSE

LIGHTING MODIFICATIONS; EXIST MOTOR LOADS TO REMAIN AS IS (MCC 3001) EXCEPT:
EXIST WASTE SLUDGE PUMPS RECONNECTED THRU NEW VARIABLE FREQUENCY DRIVES

(2) WASTE SLUDGE PUMPS - 10 H.P.

(3) EXIST 600 HP BLOWERS - TO BE DISCONNECTED

FUEL TANK

CONTROL BLDG.

SPRAY IRRIGATION FIELD

(2) BACKWASH PUMPS (RELOCATED) - 40HP

(2) AIR COMPRESSORS - 5HP

(2) SUMP PUMPS - 0.75HP

INPLANT PLANT PUMP STATION NO. 1

(3) 15 H.P.

REMOVE - (2) EXIST MUDWELL PUMPS - 7.5 HP.

EFFLUENT FILTER PUMP STATION

EFFLUENT FILTER ADDITION

(1) SAMPLE PUMP - 0.25HP

(3) EQUALIZATION PUMPS - 7.5HP

(2) SUMP PUMPS - 0.75HP

FLOW EQUALIZATION TANK

WEIR BOX

N

SPLTR BOX

BLOWER BLDG.

120V. SAMPLE PUMP - 0.25 HP

EFFLUENT IRRIGATION STORAGE TANK

FEED FROM CONTROL PANEL

RETENTION POND

BURIED FUEL TANK

MCC GEN. BLDG.

FUEL TANK

RADIO TOWER

(2) M.O. RECYCLE VALVES - 1½HP - PROVIDE 30/3 P.S.F. 1.14X - STRUT MOUNT AT BOX

OXIDATION REACTOR (WEST)

(4) OXIDATION REACTOR AERATORS - 125 HP

OXIDATION REACTOR (EAST)

SCREW LIFT STATION

FIRST ANOXIC TANK (WEST)

FERMENTATION TANK (WEST)

FIRST ANOXIC TANK (EAST)

FERMENTATION TANK (EAST)

(4) FERMENTATION TANK MIXERS - 15HP

(4) FIRST ANOXIC TANK MIXERS - 25HP

(5) SCREW LIFT PUMPS - 125 HP

LEGEND

- ● - NEW MOTOR - FED THRU NEW MCC
- ○ - EXISTING MOTOR - RELOCATED OR REFED THRU NEW MCC.
- ○ - EXISTING MOTOR TO BE REMOVED

NOTE: MOTORS ASSOCIATED WITH HVAC SYSTEMS NOT SHOWN - SEE INDIVIDUAL STRUCTURE PLANS.

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RD 4-21-92

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**ELECTRICAL SITE PLAN-**
**MOTOR LOCATIONS**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1" = 50'-0"
SHEET NO. 135 OF 166

87054-2
13108

92016

SPRAY IRRIGATION FIELD

1 NEW ELECTRIC M.H. BY FPC

EXIST MCC 6000

PRIMARY DIGESTER

SECONDARY DIGESTER

MCC 1001 (REPLACES EXIST)

SLUDGE PROCESSING CONTROL

MCC 4001

EXIST FNL. 4001 INFLUENT STRUCTURE

NOTE 1

SLUDGE THICKENER

EXISTING - TO REMAIN

SPLTR BOX

BLOWER BLDG.

EFFLUENT IRRIGATION STORAGE TANK

RETENTION POND

WET'L BOX

N

SLUDGE DEWATERING BLDG.

MCC 9000

MCC 9001

EXISTING PANEL L9

L9-1

L9-7

OB(20)

SEPTAGE HANDLING STRUCTURE SEE SHT. 166A

75' NTS

OB(20)

INPLANT PUMP STATION NO. 2

MH-9

SPS-2

SLUDGE TRANSFER STATION SEE SHT. 153

SLUDGE BLENDING TANKS

LIGHT FIXTURE TYPICAL OF SEE ELECTRIC SHEET 153

PRIMARY CLARIFIER

PRIMARY CLARIFIER

EXIST MCC 2001

MH 1

NOTE 6

AEROBIC DIGESTION TANKS

SECOND ANOXIC TANKS

REAERATION TANKS (10)

MCC 1002

MH 2

MH-3

RELOCATE

EXIST MCC 1000

EXISTING CONTROL CONSOLE

MCC 1000

MCC 1002

MCC 1003

MCC 1001

NOTE 2

RADIO TOWER

L7-5,7

L7-9,11

L7-13

L7-1,3

7 FINAL CLARIFIER

5 FINAL CLARIFIER

3 SECONDARY CLARIFIER

1 SECONDARY CLARIFIER

8 FINAL CLARIFIER

6 FINAL CLARIFIER

4 SECONDARY CLARIFIER

2 SECONDARY CLARIFIER

L8-1

CONC.

PE

NOTE 5

NOTE 3

NOTE 11

MH-11

RELOCATE

MCC 8001

EXIST MCC 3001

PUMPHOUSE

EXIST MCC 5001

MCC 5002

MCC 5000

EFFLUENT FILTER ADDITION

EFFLUENT FILTER & PUMP STATION

L5-9

MH-10

MH-5

MH-4

L1002-1,3

3-#10, #12G IN 3/4 C

INPLANT PUMP STATION NO. 1

OXIDATION REACTOR (WEST)

OXIDATION REACTOR (EAST)

SCREW LIFT STATION

MH-8

MH-7

FIRST ANOXIC TANK (WEST)

FERMENTATION TANK (WEST)

FIRST ANOXIC TANK (EAST)

FERMENTATION TANK (EAST)

FLOW EQUALIZATION TANK

## LEGEND

- EXISTING MOTOR CONTROL CENTER
- NEW MOTOR CONTROL CENTER
- EXISTING ELECTRICAL MANHOLE
- NEW ELECTRICAL MANHOLE
- EXISTING FPC PAD MOUNT XFMR - TO BE REMOVED
- T NEW FPC PAD MOUNT XFMR
- M PROPOSED FPC HANDHOLE - BY FPC
- EXISTING DISTRIBUTION RACEWAYS
- NEW DISTRIBUTION RACEWAYS
- PROPOSED FPC PRIMARY - BY FPC
- EXISTING POLE MTD. LIGHT FIXTURE
- NEW POLE MTD. LIGHT FIXTURE SEE FIXT. SCHEDULE
- NEW YARD LIGHTING CIRCUIT
- PE PHOTOCELL CONTROLLED CIRCUIT

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△ PROVIDE 2 4" PVC SLEEVES CAP & STAKE (TYP. 2 PLACES) SEE NOTE 12.

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R REVISED
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A APPROVED
C CHECKED

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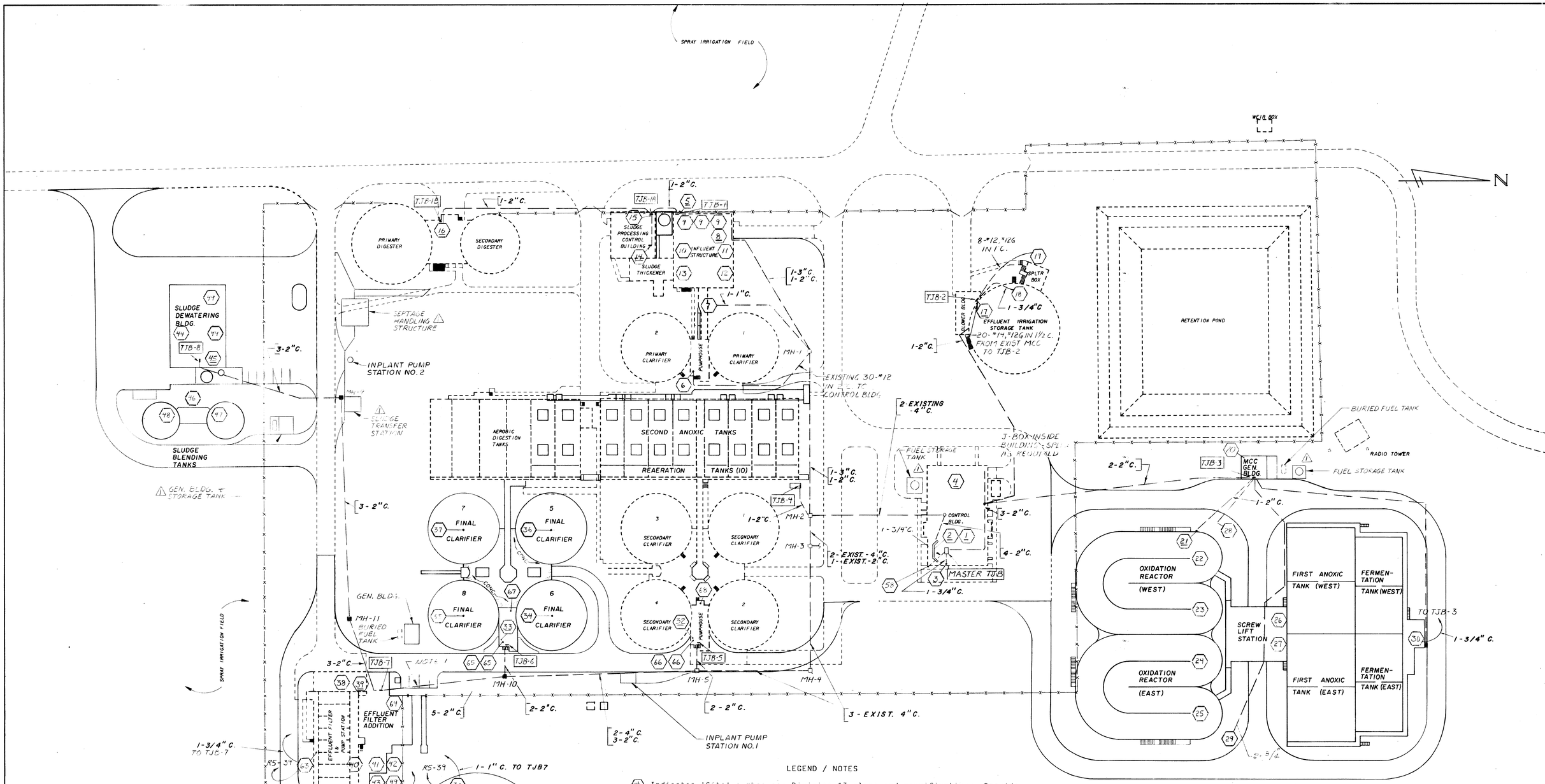
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
# ELECTRICAL SITE PLAN - POWER DISTRIBUTION
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: 1" = 50'-0"
SHEET NO. 136 OF 166

PROJ. NO. 87054-2
FILE NO. 13109

92016

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## LEGEND / NOTES

(#) Indicates 'Site' number per Division 13 plans and specifications. Provide raceways with pull wires between manholes, junction boxes, and Site locations as shown. Refer to individual structure plans for additional Site wiring details. Furnish, install and terminate conductors where shown. Where Site number is underlined indicate Telemetry Panel (TP) locations. Provide 2" min. raceway from each TP location to local TJB.

TJB Telemetry Junction Box. Provide 24"x24"x6" Nema 12 hinged door cabinet. Run raceways per plans between boxes, manholes, etc. Where installed at a TP location, mount centerline 24" a.f.f. and TP above. Any splices in this cabinet to be terminal block type per Div. 13 requirements and labelled per specifications.

Pulling of telemetry conductors under Division 16. Provide labor required to pull 2 15 pair Belden 9802 in each 2" raceway and 6 in each 4" raceway shown. Coordinate installation of raceways and pulling of conductors with Division 17 Contractor.

NOTE 1

EXISTING TELEMETRY PANEL AT MAIN LIFT STATION TO REMAIN. TELEMETRY PANEL SHALL BE RELOCATED TO NEW MCC GEN BLDG. AS PART OF THIS CONTRACT. CONTRACTOR SHALL COORDINATE WITH CITY FOR SHUTDOWN OF EXISTING PANEL.

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| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| | |
| | |
| RD | RECORD DRAWING |

Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
ELECTRICAL SITE PLAN
TELEMETRY
CLEARWATER, FLORIDA

OCT. 1988
1" = 50'-0"
137 - 166

PROJ. NO.
87054-2
13110

92016

GENERAL PROJECT NOTES:

Refer to Demolition Plans and construction sequence/project phasing for removal relocation of existing motors, controllers, lighting, telemetry, ect. Coordinate with project engineer, general contractor, owner's rep. and other trades.

Verify equipment sizes, electrical requirements, and routing of raceway prior to installation. All discrpancies to be brought to the attention of project engineer and general contractor prior to rough in.

All equipment, conduit, wire, wiring devices etc. being removed to be turned over to owner for disposal at his discretion.

Conduit routing and exact equipment locations are representative only and to be field coordinated with all trades and project engineer. Conduit routings may be field revised with approval of project engineer. No 'home runs' may be combined without express written approval of project engineer.

All conductors for power wiring to be THHN or THWN. All conductors for control wiring to be THWN or TFFN.

SITE PLAN REFERENCE NOTES:

1. New Generator #1 with base mount fuel tank, weather housing, etc. per influent structure drawings and specifications.
2. New Generator #2 with remote radiator per Gen/Swgr. detail sheet and specifications.
3. New 1000 gallon direct burial fuel tank detailed and specified under other section(s) of this project.
4. Relocated light fixtures require existing circuit, conduit to be extended and wire repulled from existing feed. This includes feed throughs to existing light fixtures.
5. New manhole #11; per schedule. Refeed existing Sludge Digester building through this manhole during and after Filter building modifications, per Filter building plan sheets. Digester building to remain in operation throughout construction period.
6. Existing conduits to be perserved as 2-48" d.i.p. pipes are installed. Rack and support as required. If G.C. chooses to remove manhole during construction preserve feeds throughout construction and replace prior to project completion.
7. 3 spare existing 4" conduits to control building switchgear room. Use 1 to feed MCC1002; for telemetry. Run telemetry to control room.
8. New 120 v. sump pump in existing manholes #1,2,3,4,&5. feed from new panel at MCC 1002 location. Run 2#10,#12g in existing empty conduits where possible, new 3/4" as required.
9. New in plant pump station. Provide feed a shown, wire per detail. Use existing conduits where possible.
10. Relocate existing manhole #5 5' off road. Refeed MCC watertight sleeves are used, 3M or approved equal.
11. New Generator #3 with remote radiator per generator building detail and specifications.
12. ⚠ Provide 2-4" PVC with sweep 90° from high voltage compartment of FPC transformer to future service location. Bury 48" below finish grade. Cap and stake. Coordinate with FPC.
13. 2-48" d.i.p. raw sewage lines to cross under FPC primary. Where primary is not 36" below grade trench and pour concrete topping minimum 15' each side of elevation change. Coordinate with G.C. and FPC.

⚠

SITE WIRING AND CONDUIT SCHEDULE

| SYMBOL | CONDUCTORS Phase;Neutral;Ground | CONDUIT |
|---|---|---|
| 1 | 2#10;;#10 | 3/4" |
| 2 | 2#8;;#10 | 1" |
| 3 | 2#12;;#12 | 3/4" |
| 4 | 3#4/0;#1/0; | 2½" |
| 5 | 3-500;#4/0;#4 | 3" |
| 6 | 3#8;;#10 | 1" |
| 7 | 3#4/0;#1/0 | 2½" |
| 8 | 3-500;#4/0;#1 | 4" |
| 9 | 3-#3;;#8 | 1½" |

FIXTURE SCHEDULE

| TYPE | MANUFACTURER | CATALOG NUMBER | LAMPS | MOUNTING |
|---|---|---|---|---|
| A | Daybrite<br>Metalux<br>Benjamin | R-41241-ESB<br>120v. | 2-F40CW/WMII | Ceiling Surface, stem or wire hung |
| B | Daybrite<br>Metalux<br>Benjamin | R-41241-ESB<br>277v. | 2-F40CW/WMII | Ceiling Surface, stem or wire hung. |
| C | Stonco<br>Appleton<br>Crouse Hinds | VWXL-21GC | 1-100A21 | Wall surface |
| D | Stonco<br>Crouse Hinds<br>Hubbell | WP-250-MA | 1-250MVR/BT | Wall Surface |
| E | Duallite<br>Hubbell<br>Chloride | 4X2 | incl. | Wall Surface |
| F | Stonco<br>Hubbell<br>Daybrite | VW-70-NLX | 1-LU70 | Wall Surface |
| G | Daybrite<br>Metalux<br>Benjamin | A-5240-W-ESB<br>277v. | 2-F40CW/WMII | Wall Surface |
| H | Prescolite<br>Hubbell<br>Kurt Versen | WB2-2 | 2-60A | Wall Surface |
| X1<br>X2 | Duallite<br>Chloride<br>Emergilite | EZX-RWW-WEP-W2K | incl. | Wall/Ceiling Canopy |
| X3 | EMERGILITE<br>CHLORIDE<br>DUALLITE | 6EFXPWHDIR | INCL. | WALL SURFACE |
| K | CROUSE HINDS<br>HUBBELL<br>G.E. | MVDH-2MHP277-WM | 1-250MVR | WALL SURFACE |

OUTSIDE LIGHTING FIXTURE SCHEDULE

| TYPE | MANUFACTURER | CATALOG NUMBER | LAMPS | MOUNTING |
|---|---|---|---|---|
| OA | GE<br>Spaulding<br>Hi Tek | P17M10S4H1LMN5GRU | 1-LU100 | GE: ARTA202T6.0B/SN. 20' Base mount aluminum pole |
| OB | GE<br>Spaulding<br>Hi-Tek | 2-HLXF40S4A16X5GRS | 2-LU400 | Yoke mount 2 on GE ARTA302T8.0C/SN 30' Base mount poles |
| OC | GE<br>Spaulding<br>Hi-Tek | P10F01S0A17X6GRS | 1-LU1000 | GE: ARTA392T10.0DSN 39' Base mount aluminum pole |

NOTES: Fixture OA to have 48" deep 24" diameter poured concrete base, anchor bolts and bolt cover.
Fixtures OB and OC to have 60" deep 30" diameter poured concrete bases, anchor bolts and bolt covers.
Where shown, provide photocell for OA lighting circuit.
Fixtures to be aimed per owner's rep.

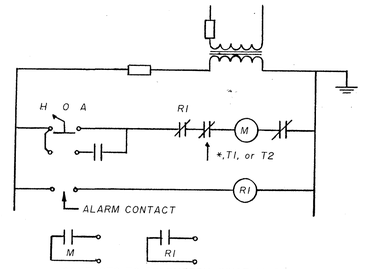
MANHOLE SCHEDULE

| Manhole # | Size | Sump Pump Ct # |
|---|---|---|
| MH-1 | Exist | R1002-1 |
| MH-2 | Exist | R1002-3 |
| MH-3 | Exist | R1002-5 |
| MH-4 | Exist | R1002-7 |
| MH-5 | Exist | R1002-9 |
| MH-6 | 48x48x48"d | R7-1 |
| MH-7 | 48x48x48"d | R7-3 |
| MH-8 | 48x48x48"d | R7-5 |
| MH-9 | 48x48x48"d | R9-1 |
| MH-10 | 48x48x48"d | R8-1 |
| MH-11 | 36x36x48"d | R5B-1 |

For existing manholes cut holes necessary for raceways added. Add 120v. sump pumps to existing and all new manholes per the above schedule.

All manholes to have aluminum traffic rated covers, 8" thick reinforced concrete sides and bottom. Dimensions shown are inside dimensions.

Refer To Detail Sheet 127




TYPICAL ALARM RELAY AND EMERGENCY POWER RELAY WIRING DIAGRAM-

* RELAY CONTACT TO PREVENT MOTOR FROM RUNNING WHEN AUTOMATIC TRANSFER SWITCH IN EMERGENCY POSITION.
T1 TIME DELAY RELAY CONTACT TO ENABLE MOTOR STARTER 10 SECONDS AFTER TRANSFER TO EMERGENCY.
T2 TIME DELAY RELAY CONTACT TO ENABLE MOTOR STARTER 20 SECONDS AFTER TRANSFER TO EMERGENCY.

MOTOR CONTROL CENTER LEGEND

- # FVNR - Full voltage non reversing motor starter with magnetic only (MCP) type circuit breaker. # indicates NEMA size.
- 2S2W - 2 speed 2 winding motor starter with MCP type circuit breaker. Provide compelling relays for acceleration and deceleration.
- T-M - Thermal magnetic molded case circuit breaker.
- SSCB - Solid state 100% rated circuit breaker with accessories shown.
- FFT - Control power transformer with primary and secondary fuses.
- X4 - 2 N.O. and 2 N.C. auxillary interlocks on starter. Where motor space heaters are used, wire through N.C. interlock.
- ETM - Elapsed time meter on starter door. 0-10000 hrs. Wire through N.O. interlock.
- PR - Red RUN pilot light on unit door wired through N.O. interlock.
- PA - Amber pilot light, indicates LOW SPEED RUN.
- PG - GREEN INDICATING PILOT LIGHT

ELECTRICAL LEGEND

| | |
|---|---|
| ○ | Ceiling mounted light fixture. Capital letter indicates fixture type per schedule. Subscript indicates switch circuit. Subscript in parenthesis indicates panel circuit number. |
| ○H | Bracket or wall mounted light fixture. Numbers and letters apply as above. |
| | Ceiling mounted fluorescent fixture. |
| | Bracket or wall mounted fluorescent fixture. |
| ② ③ | Junction box |
| | Duplex receptacle. |
| S | Single pole light switch, centerline 48" a.f.f. where subscript shown, fixtures with same subscript switched from that switch. |
| $S_2$ | 2 pole switch. |
| $S_3$ | 3 way switch. |
| $S_4$ | 4 way switch. |
| SØ | Combination light switch and duplex receptacle in 4" square box with appropriate mounting ring and plate. |
| T | Thermostat. Unless otherwise shown run 18/5 to AHU location. |
| $S_M$ | Manual motor starter, Square D class 2510 or approved equal. Furnish number of poles, overload protection and enclosure required. |
| | Disconnect switch, enclosure and rating as noted. |
| | Combination motor starter. Enclosure and rating as noted. |
| | Electric motor |
| | Equipment or motor connection. Power receptacle as noted. |
| W/P | Weatherproof |
| N4X | NEMA 4X enclosure. Nonmetallic enclosure if available. |
| TC | Time clock, per specifications. |
| LC | Lighting contactor. Furnish enclosure, number of poles and wiring indicated. |
| L- | 277/480 volt lighting and power panelboard, per schedule. |
| R- | 120/240 volt panelboard, per schedule |
| MCC | Motor Control Center per One line diagram, elevation, and schedule. |
| T | Transformer, per specifications. Furnish size, phase, and voltages per plans. Ground secondary per NEC. |
| | Telephone outlet. Furnish 4" square box, single gang plaster ring and blank plate where shown. Run 3/4" conduit with pull string back to Telephone terminal board. Where located in structure remote from main terminal board, loop 3/4" from first outlet and run 1" conduit to telephone terminal board. |
| S | Solenoid operator. Flex connect. |
| M | Valve motor operator. Flex connect. |
| LA SC | Lightning arrestor, Surge capacitor per specifications. |
| SM | Solid Neutral block. Provide capacity for 50% of service amperage and 20 minimum terminals. Ground at service entrance locations. Isolate from ground elsewhere. |
| R | Relay, type as noted. Provide enclosure where required. |
| —— | Raceway concealed in ceiling or wall. |
| — — | Raceway concealed in floor or ground. |
| ---- | Raceway, exposed. |
| TJB | Telemetry junction box. Route raceways between junction boxes per plans. Sizes and locations per plans. |
| | Home run to MCC, panel, or junction box as noted. Refer to appropriate schedule for conductor and conduit sizes. |
| NOTES: | Additional symbols used for special systems shall appear in supplementary legend(s) elsewhere on plans. |
| | The absence of descriptive type symbols or suffix letters does not relieve the contractor of the responsibility for strict conformance with other sections of the specifications. |
| PE | Photocell To Operate Fixture(s) Shown |

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| R | REVISED DESTROY PREVIOUS PRINTS |
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DESIGNED PME | DRAWN KMC | CHECKED PME

ENGINEER OF RECORD:

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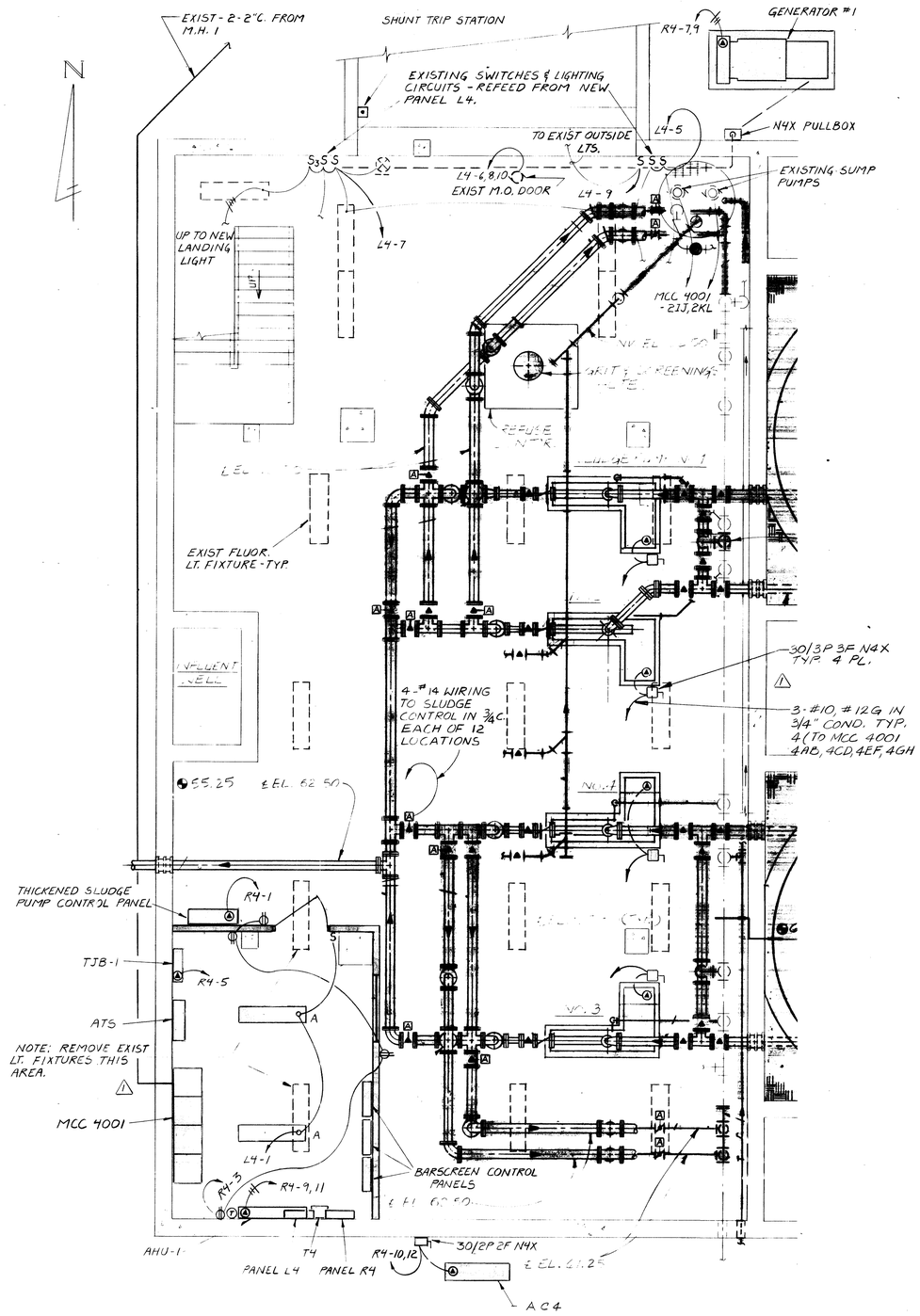
CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
ELECTRICAL NOTES & SCHEDULES
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 138 OF 166
PROJ. NO. 87054-2
FILE NO. 13111

92016




PANEL L4

MFG. SQ. D VOLTAGE 277/480 PHASE 3 WIRE 4

CAT. NEHB AMPS. 100 SYM. A.I.C. (I.E.R.) 14,000

MOUNT Surface MAIN lugs only GND. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB | ØC |
|---|---|---|---|---|---|---|---|---|
| 1 | Eq. room lts | 1 | 20 | #12 | 3/4" | | | |
| 2,4 | Upper level lts | 1 | 20 | #12 | 3/4" | | | |
| 5,7,9 | Exist lights | 1 | 20 | #12 | 3/4" | | | |
| 6,8,10 | O/H Door op. | 3 | 20 | #12 | 3/4" | | | |
| 11,13 | Spare | 1 | 20 | | | | | |
| 14-24 | Space | 1 | | | | | | |

PANEL R4

MFG. SQ. D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 100 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface MAIN 60/2 c/b GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1 | Thickened s.p. pnl | 1 | 20 | #12 | 3/4" | | |
| 3 | Outlets | 1 | 20 | #12 | 3/4" | | |
| 2,4 | Upper outlets | 1 | 20 | #12 | 3/4" | | |
| 5 | TJB | 1 | 20 | #12 | 3/4" | | |
| 7,9 | Generator | 1 | 20 | #12 | 3/4" | | |
| 6,8 | Exist. outlets | 1 | 20 | #12 | 1/2" | | |
| 10,12 | ACCU | 2 | 20 | #10 | 3/4" | | |
| 9,11 | AHU | 2 | 20 | #12 | 3/4" | | |
| 13-15 | Spare | 1 | 20 | | | | |
| 16-24 | Space | 1 | | | | | |

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PROPOSED.

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| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING EFFLUENT STRUCTURE
LOWER LEVEL ELECTRICAL PLAN
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: NONE
SHEET NO. 139 OF 166
PROJ. NO. 87054-2
FILE NO. 13112

92016

N

EXISTING EQUIPMENT (CONTROLS, T.C.'s, MCC, PANELS, XFMR & ASSOCIATED FEEDS) TO BE REMOVED & TURNED OVER TO OWNER.

TYPICAL(6) - EXISTING OUTLETS - REMOVE DEVICE & WIRING; ABANDON OUTLET.

NEW OUTLETS (6) - SURFACE MOUNT IN CLASS I, DIV II ENCLOSURE. OUTLETS & RACEWAYS 18" AFF.

TYPICAL(44) - REMOVE EXISTING CEILING MTD. FLUORESCENT FIXTURES.

EL. 81.58

TOP OF GRATING EL. 71.25 (TYP.)

FLOOR HATCH

CONVEYOR & GRIT REMOVAL ON-OFF SELECTOR SWITCHES (3)

30/3PNF CLASS I, DIV II

GRIT REMOVAL CLASSIFIER & CYCLONE (TYP. 2 PL.)

CHUTE

1-#14, #14G IN 1/2"C.

3-#12, #12G IN 3/4"C.

MCC 4001-2AB

MCC 4001-2CD

INFLUENT WELL

ODOR HOOD

FLOAT SWITCHES (TYP.)

℄ CONVEYOR & EQUIP. DISCHARGES

MOUNT W/ NONMETALLIC STRUT-TYP.

TYPICAL(3) 30/3PNF DISC. CLASS I, DIV. II WIRE BARSCREEN COMPONENTS FROM HERE.

SHEAR PIN ALARM

MECHANICAL BAR SCREEN (TYP. 3 PLCS.)

TRACKING LIMIT SWITCH

INFL. CHAN.

MCC 4001-2EF

MCC 4001-2GH

30/3PNF CLASS I, DIV. II

OVER TORQUE LIMIT SWITCH (TYP)

TYPICAL(8) - FIXTURE K - RUN RACEWAY AT CEILING HT. - LOCATE FIXTURE ℄ 8'-0" AFF

TYPICAL(4) EXISTING LIGHT FIXTURE, REMOVE FIXTURE & WIRING.

DOWN

UP

CONDUIT RISERS FROM MCC BELOW - PROVIDE CONDUIT SEALS ABOVE & BELOW FLOOR.

TO THICKENER DRIVES

L4-3

R4-24

CONDUIT RISERS FROM PANELS BELOW. PROVIDE SEALS ABOVE & BELOW FLOOR.

REMOVE EXISTING FAN FEED.

65.25 · 75.25 · 71.25

## UPPER LEVEL PLAN

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

**NOTES:**

1. All wiring this area to meet requirements of Class I Division II, per National Electrical Code Article 501. All wiring this area to be surface mounted and supported by non metallic supports or PVC coated straps. Raceways to be PVC coated Rigid Galvanized Conduit (RGC) with threaded fittings. Provide conduit seals in to and out of all devices, fixtures, etc. Provide conduit seals on both sides of area penetrations. All wiring devices, switches, fixtures, etc to be UL listed for application in Class I Division I or II locations. Flexible connections to motors and unit mounted equipment to be UL listed for Class I Division II locations.
2. Remove all existing MCC sections, panels, junction boxes, transformer, and associated wiring. Remove all existing fixtures, switches, outlets,etc. Pull wiring out and abandon boxes with blank plares.
3. Remove and abandon approximately 44 existing ceiling mounted 'vaportite' fixtures. Turn all fixtures removed over to owner.
4. Refeed existing building lighting circuits and new lighting from new panel L4. on lower level. Avoid passing those circuits through Class I area.

5. THICKENER WIRING TO INCLUDE 1-OVER TORQUE ALARM AND 1-OVER TORQUE SHUTDOWN. WIRE 2-#14, #14G TO TJB-1 (ALARM) AND 2-#14 TO SHUT DOWN MOTOR STARTER.

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DESIGNED PME · DRAWN KMC · CHECKED PME

ENGINEER OF RECORD:

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING EFFLUENT STRUCTURE
UPPER LEVEL ELECTRICAL PLAN
CLEARWATER, FLORIDA

DATE: OCT. 1988 · SCALE: AS SHOWN · SHEET NO. 140 OF 166

PROJ. NO. 87054-2 · FILE NO. 13113

92016

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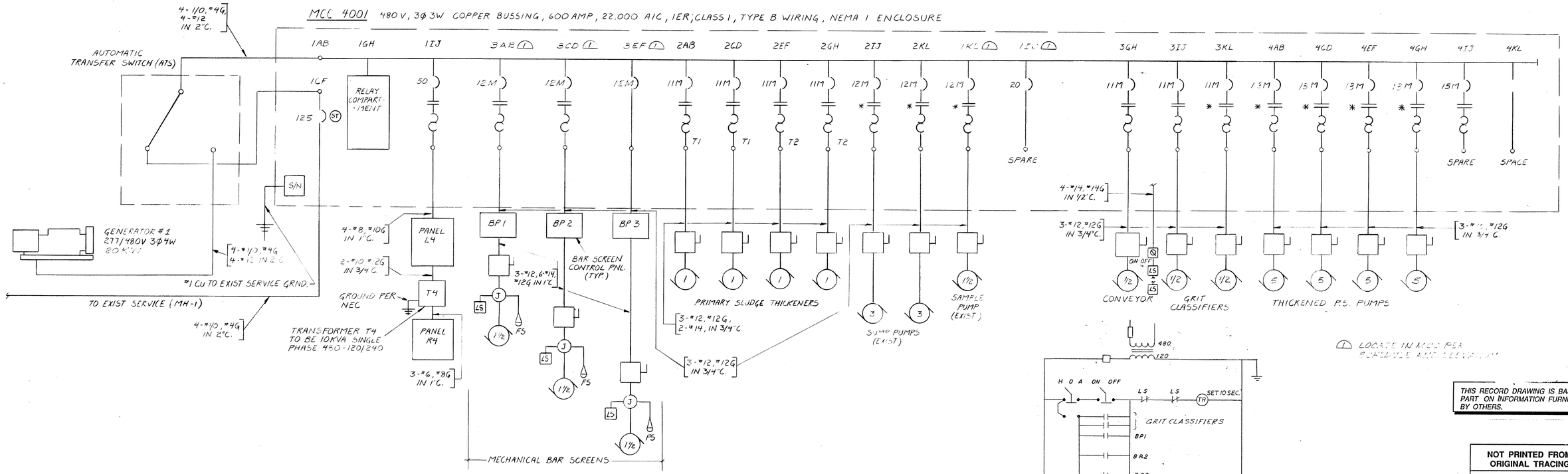


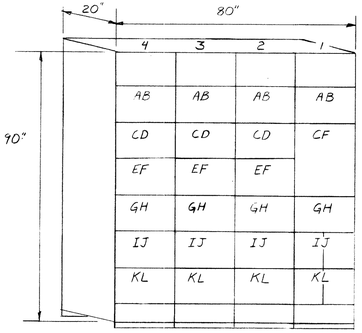


MCC 4001 ELEVATION

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

## MCC 4001

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | CB/TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|
| 1CF | MAIN CIRCUIT BREAKER | T-M | | 125 | — | NORMAL POWER MAIN C/B. WITH 120 V. SHUNT TRIP. |
| 1AB | MAIN LUG COMPARTMENT | — | — | — | — | FEEDS MCC BUSSING. |
| 1GH | RELAY COMPARTMENT | — | — | — | — | |
| 1IJ | PANEL 4LP | T-M | (10) | 50 | — | DUAL MOUNTED C/B UNIT. PROVIDE NEUTRAL CONNECTION |
| 1IJ | SPARE | T-M | — | 20 | — | |
| 1KL | SAMPLE PUMP | 1FVNR | 1½ | 12M | ON/OFF, FFT, X4, PR | EXISTING-REFEED FROM NEW MCC |
| — | — | — | — | — | — | — |
| 2AB | PRIMARY THICKENER #1. | 1-FVNR | 1 | 11M | ON/OFF, FFT, X4, PR, RI. | WIRE TORQUE LIMIT SWITCH TO SHUT DOWN MOTOR AND ANNUCIATE FAILURE TO TELEMETRY JUNCTION BOX THRU RELAY RI. |
| 2CD | #2. | | | | | |
| 2EF | #3. | | | | | |
| 2GH | PRIMARY THICKENER #4. | 1-FVNR | 1 | 11M | ON/OFF, FFT, X4, PR, RI. | |
| 2IJ | SUMP PUMP | | 3 | 12M | HOA, FFT, X4, PR. | EXISTING - FLOATS CONTROL IN AUTO POSITION. |
| 2KL | SUMP PUMP | | 3 | 12M | HOA, FFT, X4, PR. | EXISTING - FLOATS CONTROL IN AUTO POSITION. |
| 3AB | BARSCREEN #1 | 1-FVNR | 1 1/2 | 12M | HOA, FFT, X4, PR | WIRE FLOATS/LIMIT STOP TO CONTROL PANEL CONTROL PANEL TO OPERATE MOTOR STARTER IN AUTO POSITION. |
| 3CD | BARSCREEN #2 | 1-FVNR | 1 1/2 | 12M | HOA, FFT X4 PR | |
| 3EF | BARSCREEN #3 | 1-FVNR | 1½ | 12M | HOA, FFT X4, PR | |
| 3GH | CONVEYOR | 1-FVNR | 1 | 11M | HOA, FFT, X4, PR, ON-OFF | WIRE PER DIAGRAM. |
| 3IJ | GRIT CLASSIFIER | 1-FVNR | ½ | 11M | HOA, FFT X4 PR | MOUNT 3 LOAD STOP FLOATS IN GRIT TANK |
| 3KL | GRIT CLASSIFIER | 1-FVNR | ½ | 11M | HOA, FFT, X4, PR | " " " " " " " " |
| 4AB | THICKENED P.S. PUMPS | | 5 | 15M | HOA; FFT; X4; PR. | WIRE AUTO POSITION TO THICKENED SLUDGE PUMP CONTROL PANEL |
| 4CD | | | 5 | 15M | " " " " | " " " " " " " " " " |
| 4EF | | | 5 | 15M | " " " " | " " " " " " " " " " |
| 4GH | THICKENED P.S. PUMPS. | | 5 | 15M | " " " " | " " " " " " " " " " |
| 4IJ | SPARE | 1-FVNR | — | 15M | " " " " | |
| 4KL | SPACE | | | | | |

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

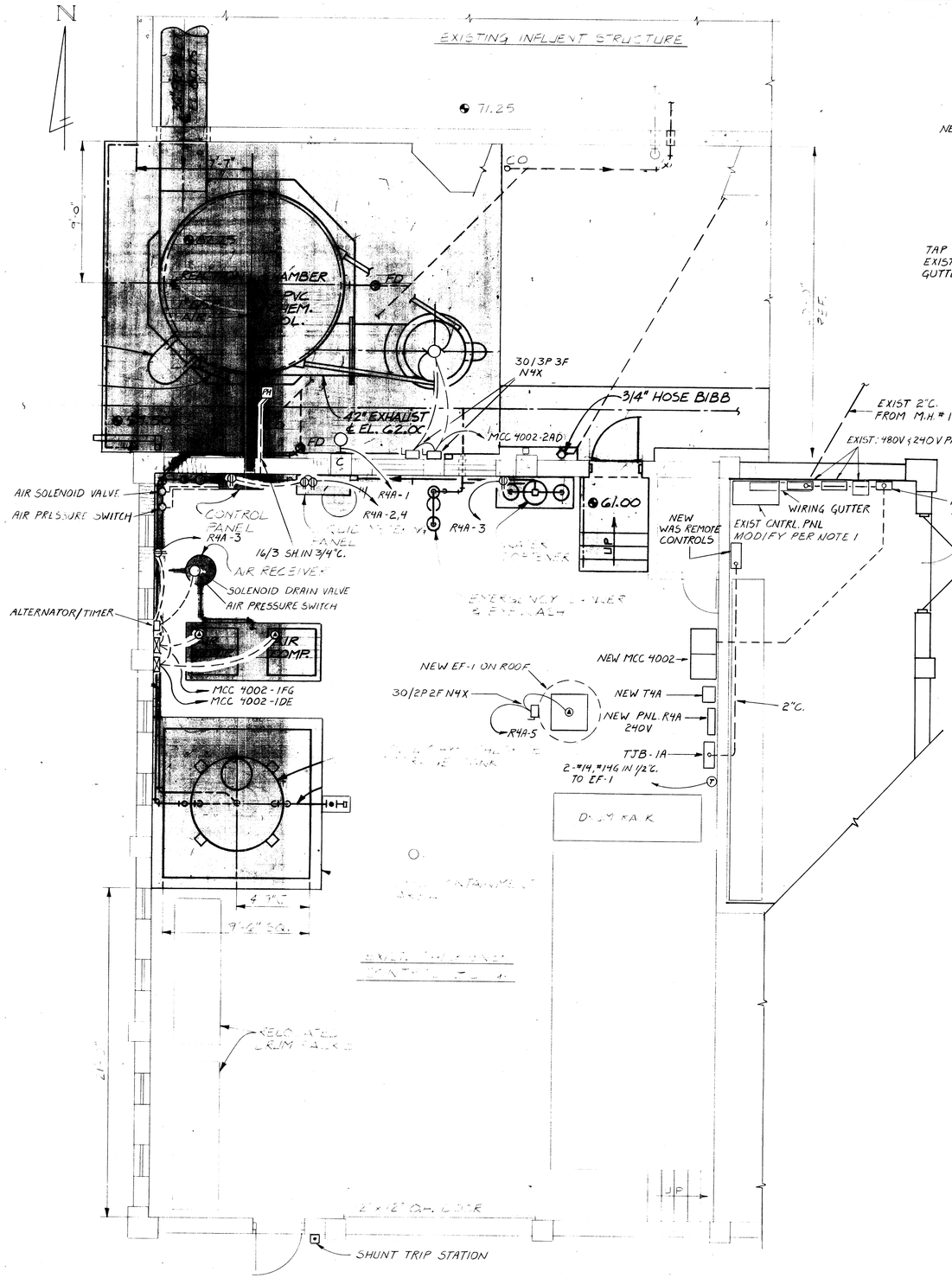
EXISTING INFLUENT STRUCTURE - MCC 4001 & ONE LINE DIAGRAM

CLEARWATER, FLORIDA

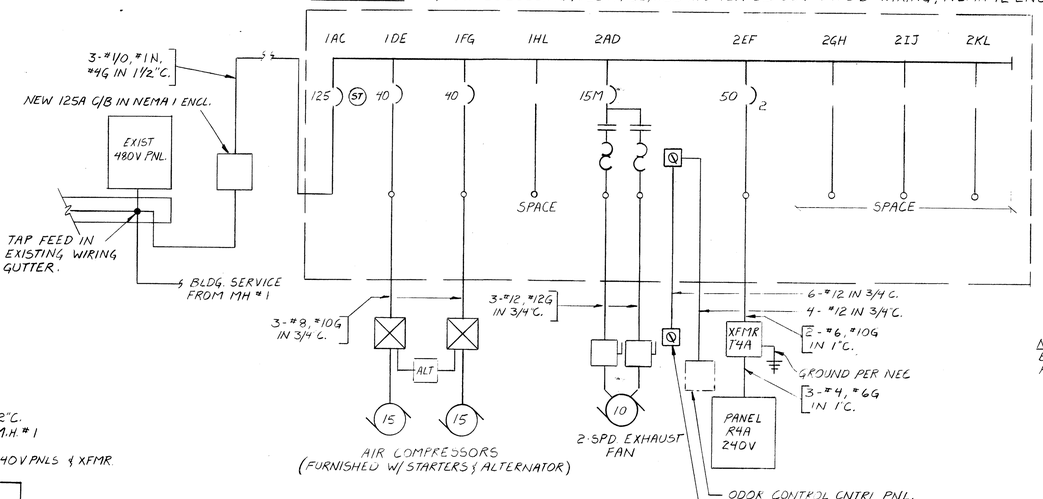
DATE: OCT. 1988 SCALE: AS SHOWN SHEET NO. 141 OF 166

PROJ. NO. 87054-2 FILE NO. 13114

92016



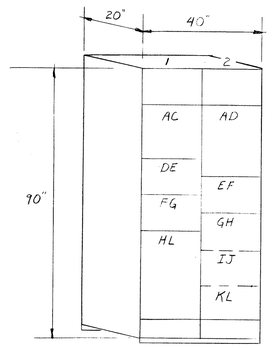

MCC 4002 3φ 3W CU BUSSING, 125A, 22,000 AIC IER CLASS 1 TYPE B WIRING, NEMA 12 ENCLOSURE




NOTE: TRANSFORMER T4A TO BE 480-120/240V. 1φ 15KVA PER SPECIFICATIONS.

**MCC 4002**

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | | REMARKS |
|---|---|---|---|---|---|---|
| 1AC | MAIN BREAKER | T-M | — | 125 | — | PROVIDE UL SE LABEL. |
| 1DE | AIR COMPRESSOR | T-M | — | 40 | — | — |
| 1FG | AIR COMPRESSOR | T-M | — | 40 | — | — |
| 1HL | SPACE | 1FVNR | — | — | — | |
| 2AD | ODOR CONTROL FAN | 12S2W | 10 | 15M | S1, S2, O, R; PG, FFT, X4. | REMOTE CONTROL BY SPEED SELECT SWITCH AND ODOR CONTROL PANEL. |
| 2EF | TRANSF. T7A | T-M | (15) | 50 | — | 2 POLE C/B; FEEDS 15 KVA, 10 TRANSF. |
| 2GH | SPARE | 1FVNR | — | 12M | HOA; PG, FFT, X4. | SPARE |
| 2IJ | SPACE | 1FVNR | — | — | | — |
| 2KL | SPACE | 1FVNR | — | — | | — |




MCC 4002 ELEVATION
SCALE: 1/2" = 1'-0"

PANEL R4A

MFG. SQ. D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 100 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface MAIN 90/2 c/b GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ø'A | ø'B |
|---|---|---|---|---|---|---|---|
| 1 | Lights | 1 | 20 | #12 | 3/4" | | |
| 2 | Liquid metering | 1 | 20 | #12 | 3/4" | | |
| 3 | Water softner | 1 | 20 | #12 | 3/4" | | |
| 4 | Control panel | 1 | 20 | #12 | 3/4" | | |
| 5-8 | Spare | 1 | 20 | | | | |
| 9-20 | Space | 1 | | | | | |

NOTE 1: (1) DEPARTMENT SHALL REMOVE EXISTING INCREASTOL TO PANEL
A. PROVIDE 2-#10 & #10G IN 3/4"C. FROM PANEL (ITEM 1)
B. PROVIDE 1-SIZE AS REQUIRED CONDUIT FROM PANEL
C. PROVIDE 1-ON OFF RESET SWITCH IN CONTROL PANEL
CONTROL PANEL & FEED WIRING AS REQUIRED
D. RUN 1-#10 & #10G IN 3/4"C. FROM PANEL TO M.C.C. 4002
E. PROVIDE 2-NEW 20/1P CB'S IN PANEL R4A
F. THE ABOVE ITEMS ARE TO BE SHOWN ON AS-BUILT PRINTS

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EXISTING

PROPOSED

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DESIGNED PME
DRAWN KTB
CHECKED PME

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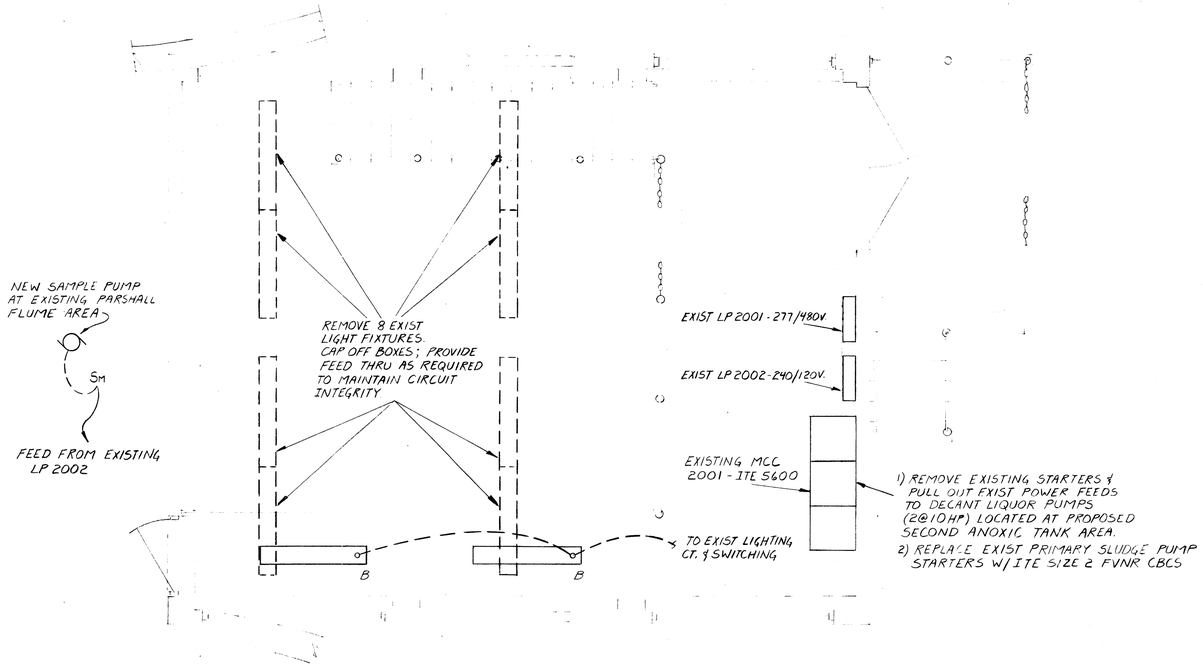
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING INFLUENT STRUCTURE-
ODOR CONTROL SYSTEM ELECTICAL
CLEARWATER, FLORIDA

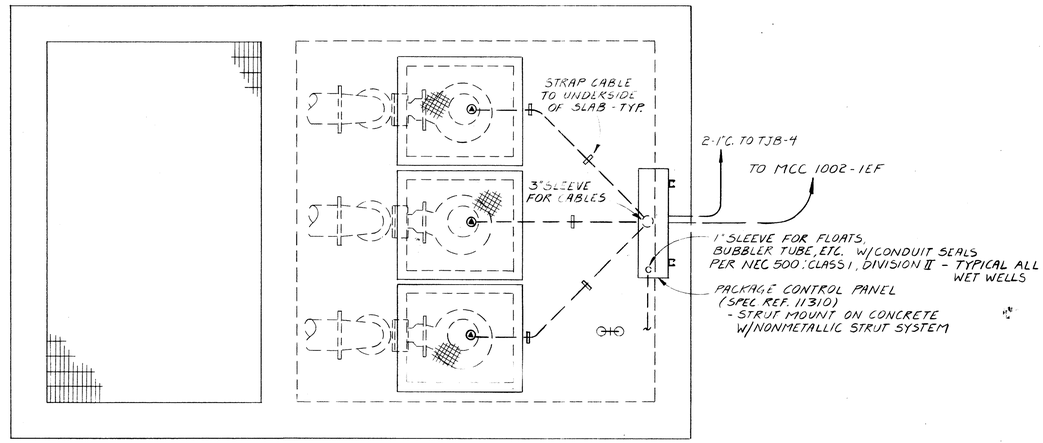
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 142 OF 166
PROJ. NO. 87054-2
FILE NO. 13115

92016



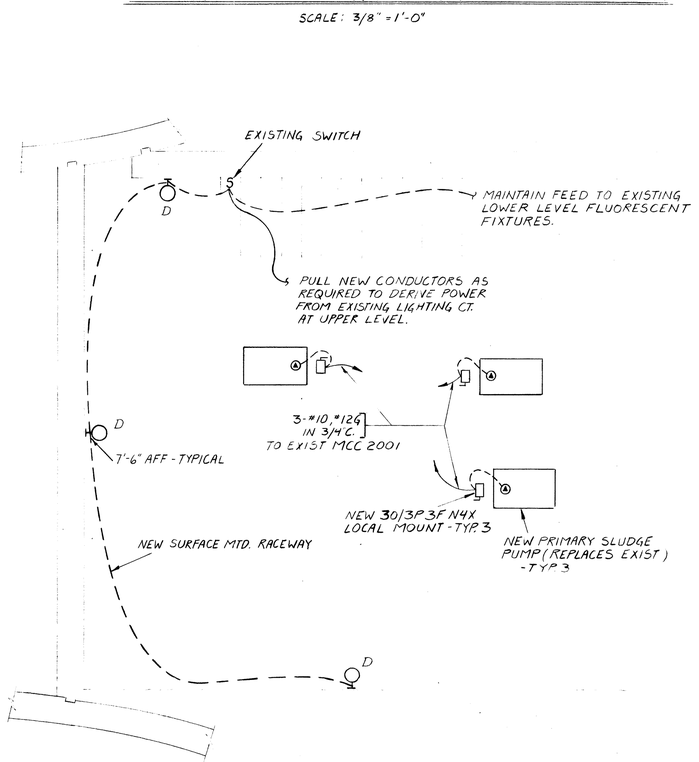

EXIST PRIMARY CLARIFIER PUMP HOUSE - UPPER LEVEL PLAN

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



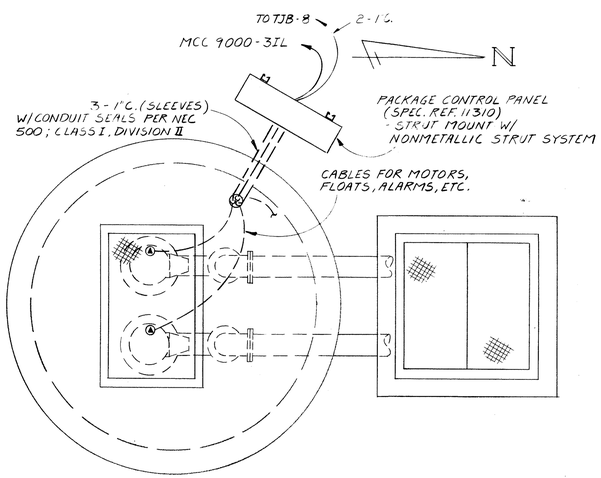

PLAN - INPLANT P.S. NO. 1

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




EXIST PRIMARY CLARIFIER PUMP HOUSE - LOWER LEVEL PLAN

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




PLAN - IN PLANT P.S. NO. 2

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

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DRAWN KMC
CHECKED PME

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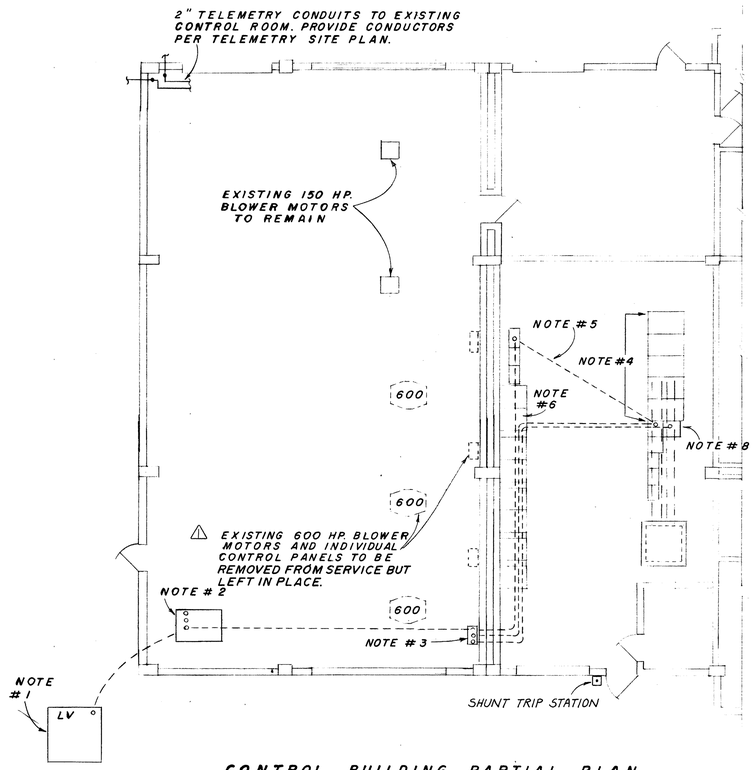
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EXISTING PRIMARY CLARIFIER PUMP HOUSE & IN PLANT P.S. ELECTRICAL**
CLEARWATER, FLORIDA

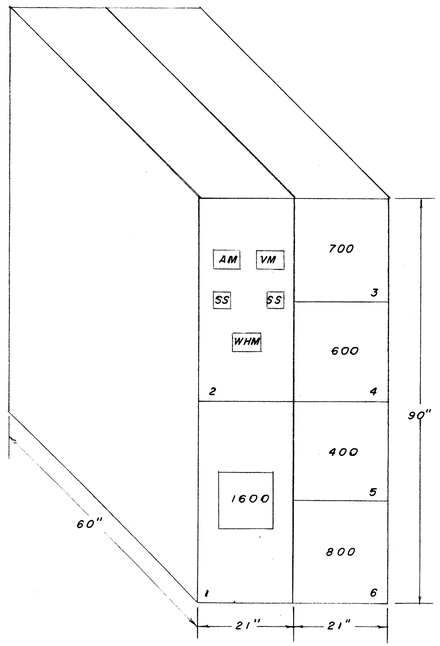
DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 143 OF 166

PROJ. NO. 87054-2
FILE NO. 13116

92016




**CONTROL BUILDING PARTIAL PLAN**
SCALE: 1/8"=1'-0"




**NEW SWITCHGEAR ELEVATION**
N.T.S.

**SWITCHGEAR SCHEDULE**

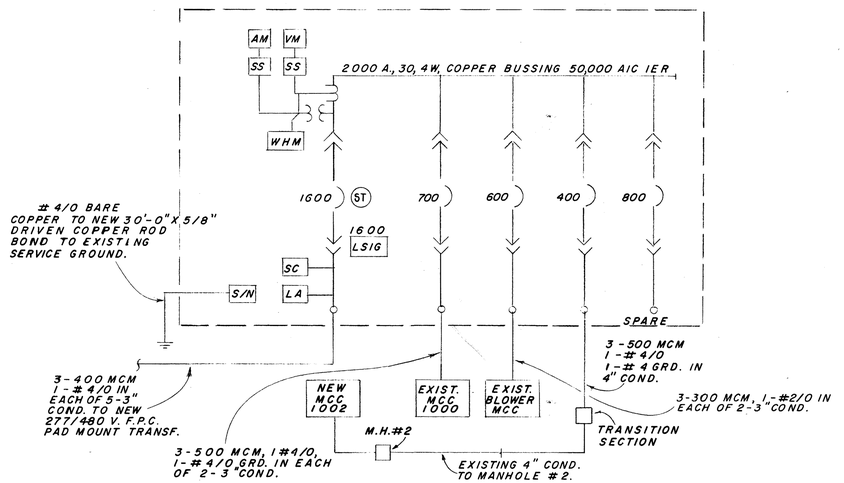
| ITEM # | DESCRIPTION | DEVICE | REMARKS |
|---|---|---|---|
| 1. | MAIN BREAKER | 1600/3 | 100% RATED MANUALLY OPERATED DRAWOUT TYPE C/B WITH (7) ADJ. TRIP FUNCTIONS. (LSIG) AND ZONE SELECTIVE INTERLOCKING, SHUNT TRIP. |
| 2. | METERING COMPARTMENT | AM,VM,WHM | PROVIDE C/S, P/TS, SELECTOR SWITCHING, METERS ARE TO BE ±1% ACCURACY. |
| 3. | EXISTING MCC 1000 | 700/3 | 100 % RATED MANUALLY OPERATED DRAWOUT TYPE C/B WITH (7) ADJ. TRIP FUNCTIONS (LSIG). AND ZONE SELECTIVE INTERLOCKING. |
| 4. | EXISTING BLOWER MCC | 600/3 | |
| 5. | MCC 1002 | 400/3 | |
| 6. | SPARE | 800/3 | |

NOTES:

1. New FPC pad mount transformer, 277/480 volt 3 Phase 4 Wire, Wye. Run new service to new switchgear per single line diagram. Cut and patch footers, slab, etc. as required.
2. New service switchgear on 4" pad. Route load side raceways up and over existing hoist rail and clear path of crane travel.
3. Transition through wall to enter existing switchgear room below beam.
4. Existing 500 KVA dry type transformer 4160-277/480 volt to be removed after new service is available to existing MCC 1000.
5. Remove existing 4" conduit w/ 6-250 mcm cu. presently feeding blower MCC.
6. Existing 4160 volt switchgear. After new 277/480 service is energized and refeeding existing 480 volt loads shown deenergize 4160 volt gear and remove or safely abandon all associated feeds, including to 4- 600 hp blowers and 500 KVA transformer being removed.
7. Remove 4160 volt switchgear and 500 KVA transformer and turn over to owner or provide credit per contract documents. If turned over to owner include loading, transportation ( 15 miles min), and unloading of equipment.
8. New feed to MCC 1002, through existing floor trench and manhole system. Provide transition box at trench, 20"x20"x90" h. Provide steel side plate for existing MCC 1000 main breaker section where transformer throat connection is removed.

9. PROVIDE 2 DUPLEX OUTLETS IN CHLORINE ROOM FOR NEW CHLORINATORS ILLUMINATE 2 NEW 20/1 C/B'S IN LOCAL PANEL + FEED WITH #12 IN 3/4 C. REFER TO SHEET 117 FOR DETAILS.

10. IN EXISTING LABORATORY ADD THE FOLLOWING:
C/B WIRE COND. DEVICE
20/1 #12 3/4" NEMA 20R
30/2 #10 3/4" NEMA 30R
2-20/1 #12 3/4" 6' PLUG MOLD. ON RECS, 12" O.C.
REFER TO SHEET 117A FOR ELEVATIONS
PROVIDE FEEDS FROM EXIST. 2ND FL. 120/208V PANEL.




**NEW SWITCHGEAR SINGLE LINE DIAGRAM**
N.T.S.

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| 1 | 5/31/89 | REVISED PER ADDENDUM | KRM |

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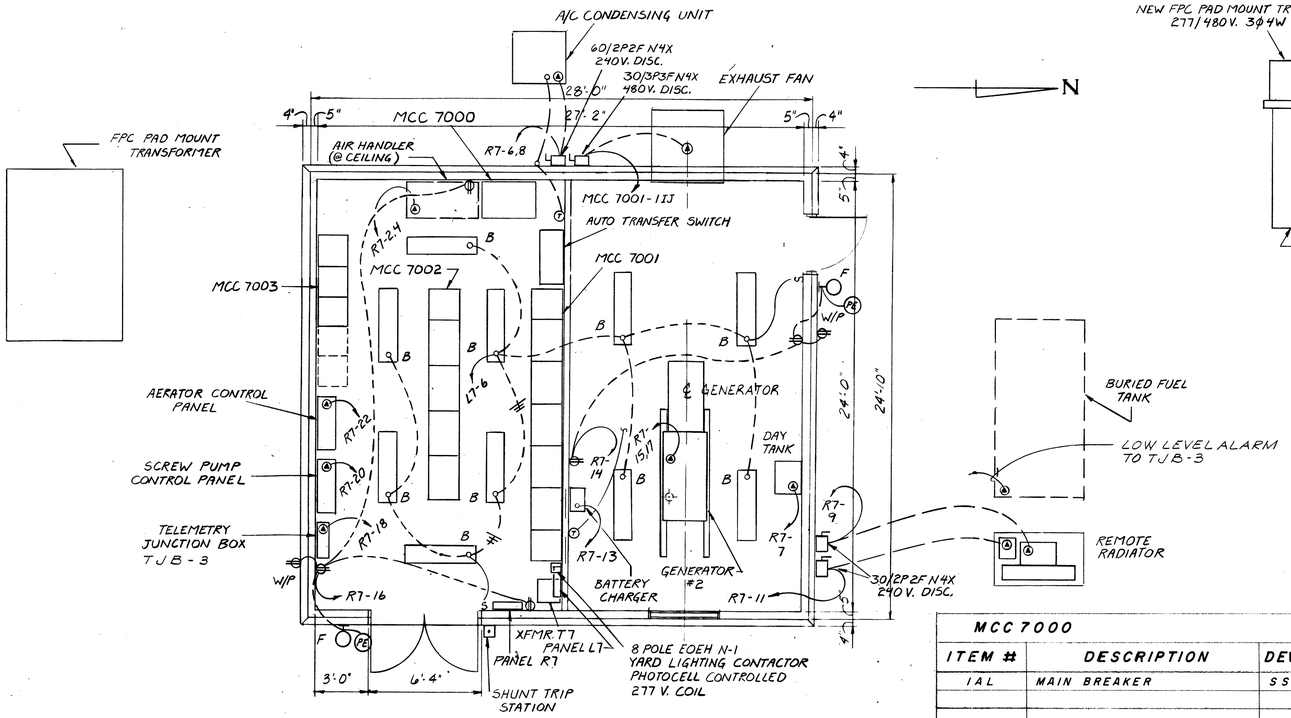
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING CONTROL BUILDING-
ELECTRICAL MODIFICATIONS
CLEARWATER, FLORIDA

DATE: OCT. 1988 | PROJ. NO. 87054-2
SCALE: AS SHOWN | FILE NO. 13117
SHEET NO. 144 OF 166

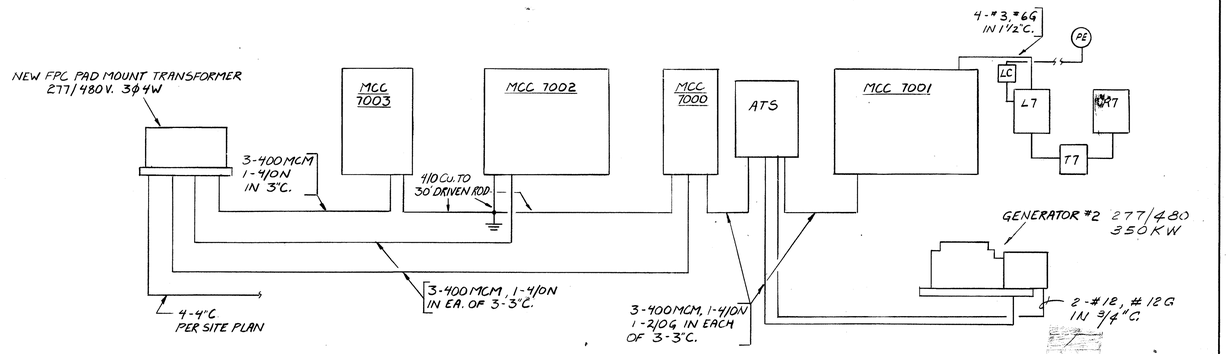
92016




PLAN - MCC/GENERATOR BLDG.

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

⚠ **SEE SHEET III-C FOR MODIFICATIONS MADE UNDER E.O. 021**




MCC/GEN. BUILDING SERVICE RISER DIAGRAM

NOT TO SCALE

⚠ **SEE SHEET III-C FOR REVISED RISER DIAGRAM**

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**MCC 7000**

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|
| 1AL | MAIN BREAKER | SSCB | —— | 1000 | AM;VM;KWHM;CTS;PTSg | 50,000 AIC 100% RATED SOLID STATE CIRCUIT BREAKER WITH (7) ADJUSTABLE TRIP FUNCTIONS LSIG; INSTRUMENT TRANSFER SWITCHES; ± 1% INSTRUMENTS; SHUNT TRIP. |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**MCC 7003**

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|
| 1AL | MAIN BREAKER | T-M | —— | 400 | AM;VM;KWHM;CTS;PTS. | 50,000 AIC THERMAL MAGNETIC CIRCUIT BREAKER; INSTRUMENT TRANSFER SWITCHES, ± 1% INSTRUMENTS; SHUNT TRIP. |
| | | | | | | |
| 2AC | FIRST ANOXIC MIXER | 3FVNR | 25 | 18M | ON/OFF; PG; FFT; X4; RI. | WIRE ALARM CONTACT ON MOTOR TO SHUT DOWN STARTER AND TO TJB. THRU RELAY RI. |
| 2DF | ↕ | ↕ | 25 | 18M | ↕ | ↕ |
| 2GI | | | 25 | 18M | | |
| 2JL | FIRST ANOXIC MIXER | 3FVNR | 25 | 18M | | |
| 3AB | FERMENTATION MIXER | 2FVNR | 15 | 15M | | |
| 3CD | ↕ | ↕ | 15 | 15M | | |
| 3EF | | | 15 | 15M | | |
| 3GH | FERMENTATION MIXER | 2FVNR | 15 | 15M | ON/OFF; PG; FFT; X4; RI | WIRE ALARM CONTACT ON MOTOR TO SHUT DOWN STARTER AND TO TJB. THRU RELAY RI. |
| 3IJ | SPARE | T-M | —— | 30 | —— | —— |
| 3KL | SPARE | 1FVNR | —— | 13M | ON/OFF; PG; FFT; X4; RI | —— |
| | | | | | | |

RI - ALARM RELAY IN STARTER COMPARTMENT.

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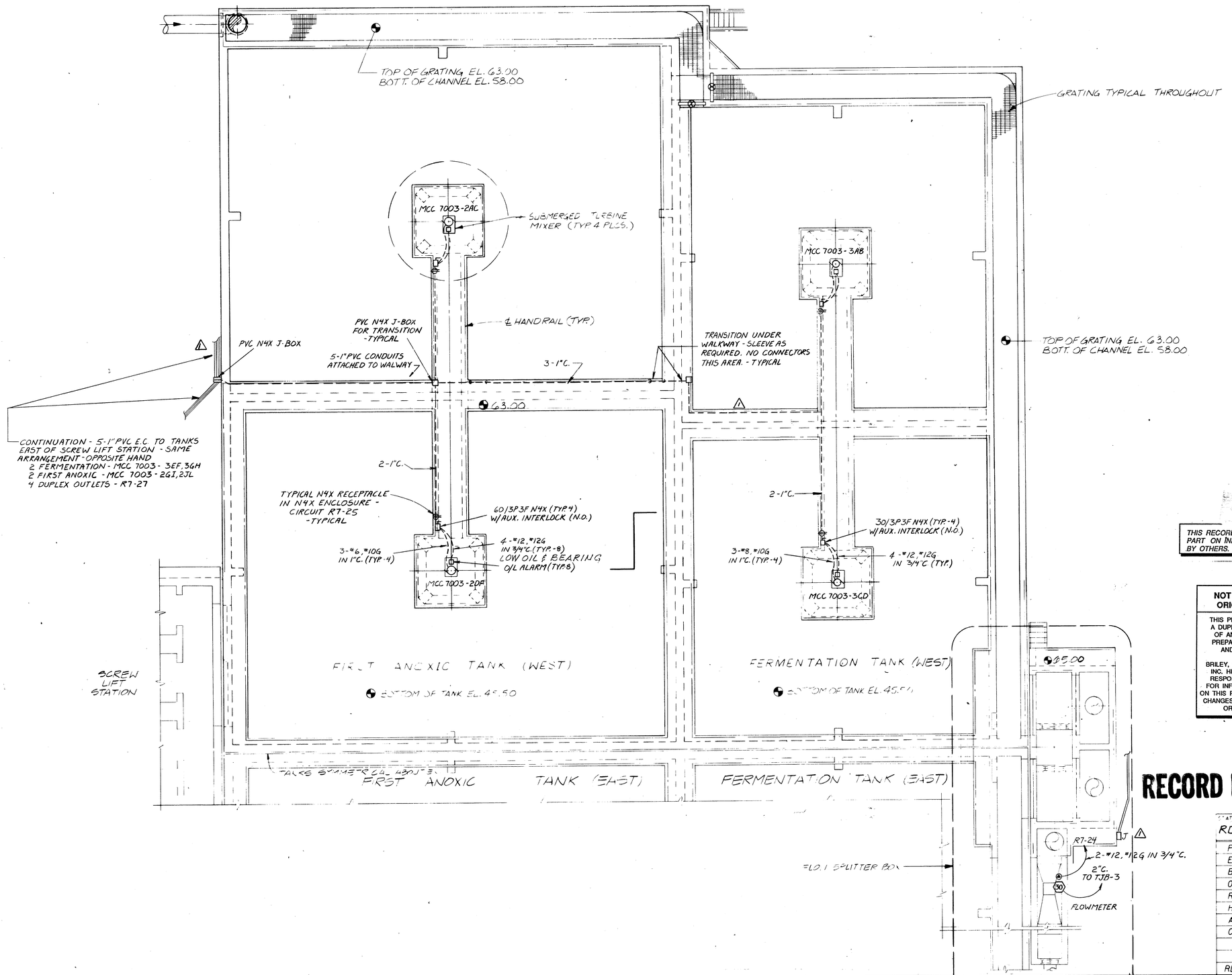
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**PROPOSED MCC/GENERATOR BUILDING**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 145 OF 166 | PROJ. NO. 87054-2 | FILE NO. 13118

92016

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FERMENTATION & FIRST ANOXIC TANKS-ELECTRICAL**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 146 OF 166

PROJ. NO. 87054-2
FILE NO. 13119

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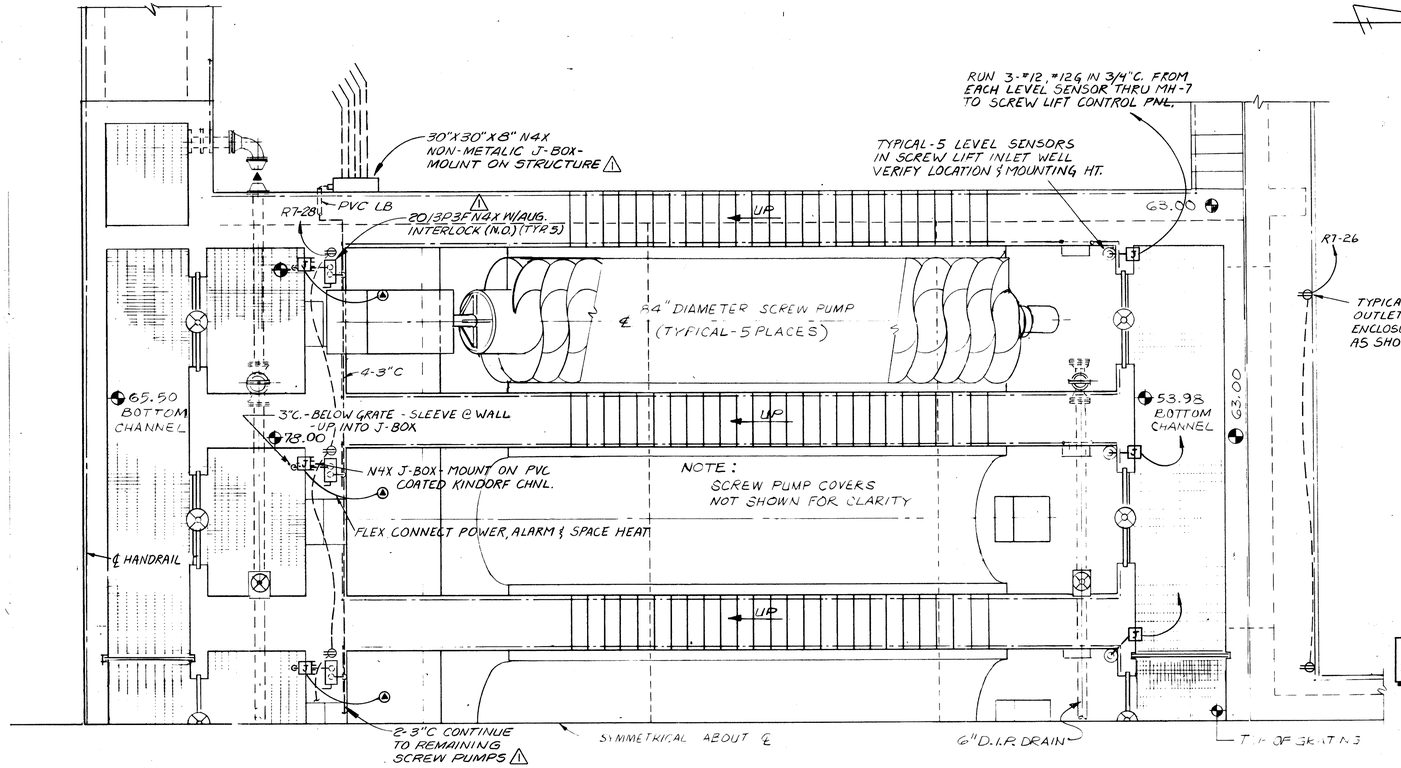


PARTIAL PLAN
SCALE: 1/2" = 1'-0"

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## PANEL L7

MFG. SQ. D VOLTAGE 277/480 PHASE 3 WIRE 4

CAT. NEHB AMPS. 100 SYM. A.I.C. (I.E.R.) 14,000

MOUNT Surface MAIN lugs only GND. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB | ØC |
|---|---|---|---|---|---|---|---|---|
| 1,3 | Yard lights | 1 | 20 | #10 | 3/4" | | | |
| 2,4 | X-fmr T7 | 2 | 70 | #4 | 1" | | | |
| 5,7 | Yard lights | 1 | 20 | #10 | 3/4" | | | |
| 9,11,13 | Yard lights | 1 | 20 | #10 | 3/4" | | | |
| 6 | Interior lights | 1 | 20 | #12 | 3/4" | | | |
| 8,10,12 | Spare | 1 | 20 | | | | | |
| 14-24 | Space | 1 | | | | | | |

## PANEL R7

MFG. SQ. D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 150 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface MAIN 150/2 c/b GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1,3,5 | Sump pumps | 1 | 20 | #10 | 3/4" | | |
| 2,4 | ACU | 2 | 40 | #8 | 3/4" | | |
| 6,8 | AHU | 2 | 20 | #12 | 3/4" | | |
| 7 | Day tank | 1 | 20 | #12 | 3/4" | | |
| 9,11 | Radiator | 1 | 20 | #12 | 3/4" | | |
| 10,12 | Spare | 2 | 20 | | | | |
| 13 | Batt. charger | 1 | 20 | #12 | 3/4" | | |
| 14,16 | Outlets | 1 | 20 | #12 | 3/4" | | |
| 15,17 | Block heater | 2 | 20 | #10 | 3/4" | | |
| 18 | Telem. J Box | 1 | 20 | #12 | 3/4" | | |
| 20 | Screw pump cntls | 1 | 20 | #12 | 3/4" | | |
| 22 | Aerator cntls | 1 | 20 | #12 | 3/4" | | |
| 19,21,23 | Spare | 1 | 20 | | | | |
| 24 | Parshall Flume | 1 | 20 | #12 | 3/4" | | |
| 25,27 | OUTLETS | 1 | 20 | #10 | 1" | | |
| 26,28 | OUTLETS | 1 | 20 | #10 | 1" | | |
| 30 | SPARE | 1 | 20 | | | | |
| 29,31 | OUTLETS | 1 | 20 | #10 | 1" | | |
| 32-90 | SPACE | 1 | | | | | |

## MCC 7001

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|
| 1AD | MAIN LUG COMPARTMENT | — | — | — | — | — |
| 1EF | PANEL # L7 | T-M | (24) | 100 | — | NEUTRAL CONNECTION REQUIRED. |
| 1GH | SPARE | T-M | — | 30 | — | — |
| 1IJ | FAN EF-1 | 1FVNR | 3 | 11M | HOA, FFT; X4; PG. | — |
| 1KL | SPACE | — | — | — | — | — |
| 2AL | SCREW PUMP # 1. | 5-RVAT | 125 | 31M | HOA; FFT; (500VA) X4; PG. | 1. WIRE 120V. SPACE HEATER TO MOTOR THRU N.C. CONTACT. |
| 3AL | # 2. | ↓ | ↓ | ↓ | ↓ | 2. WIRE AUTO POSITION TO SCREW PUMP CONTROL PANEL. |
| 4AL | # 3. | | | | | 3. WIRE ALARM CONTACTS TO SCREW PUMP CONTROL PANEL. |
| 5AL | # 4. | | | | | 4. WIRE # 1,3 AND 5 THRU CONTACTS IN ATS NOT TO RUN IN "HAND" POSITION WHEN IN EMERGENCY POSITION. |
| 6AL | SCREW PUMP #5. | 5-RVAT | 125 | 31M | HOA; FFT; (500VA) X4, PG. | |
| 7AB | RECYCLE VALVE TRAIN # 1 | T-M | 1 1/2 | 20 | — | WIRE 9 # 12, # 12 GRD. IN 1" COND. FROM EACH RECYCLE VALVE TO CONTROL PANEL. |
| 7CD | RECYCLE VALVE TRAIN # 2 | T-M | 1 1/2 | 20 | — | |
| 7EF | SPACE | 1-FVNR | — | — | — | — |
| 7GH | SPACE | 1-FVNR | — | — | — | — |
| 7IJ | SPACE | 1-FVNR | — | — | — | — |
| 7KL | SPACE | 1-FVNR | — | — | — | — |

| STATUS | ACT'ON DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 7-1091 | RECORD DRAWING | WLS |

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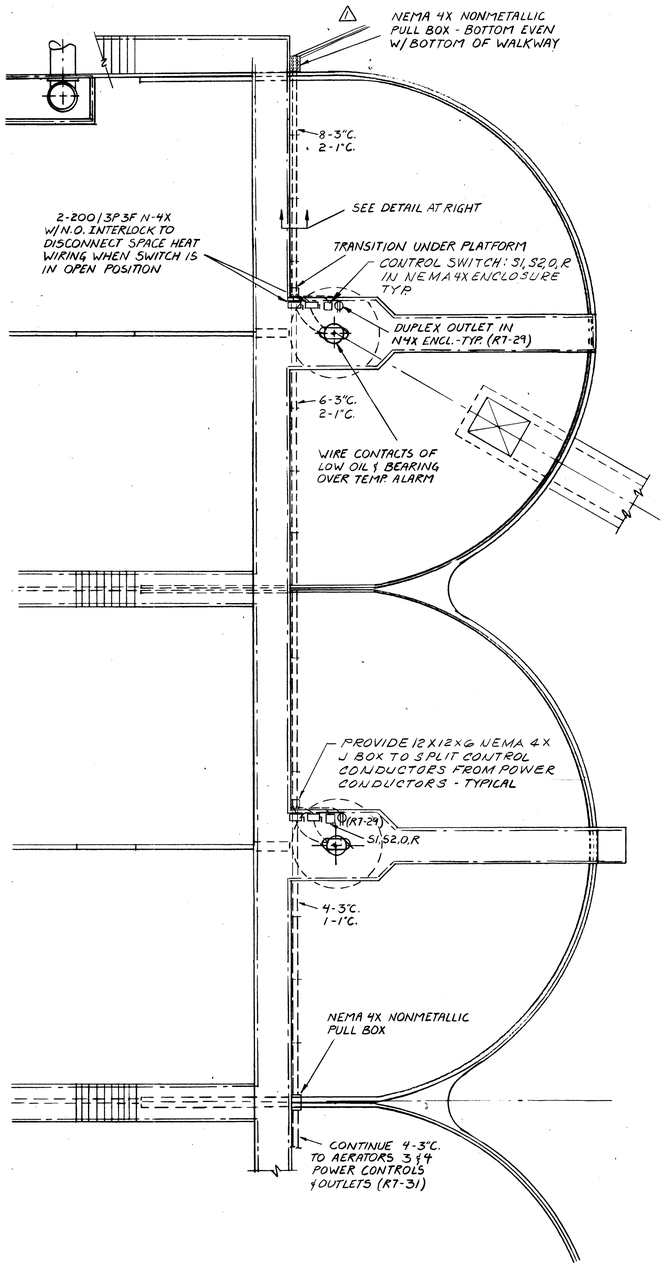
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SCREW LIFT STATION-
ELECTRICAL
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 147 OF 166
PROJ. NO. 87054-2
FILE NO. 13120

92016




PLAN

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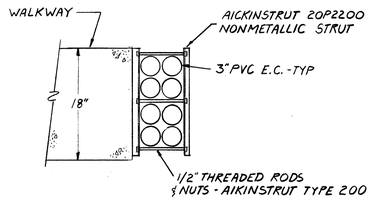


NOTE: RACK & SUPPORT CONDUITS MIN. 7' INTERVALS

DETAIL

NOT TO SCALE

MCC 7002

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | | REMARKS |
|---|---|---|---|---|---|---|
| 1AL | MAIN CIRCUIT BREAKER | SSCB | —— | 1000 | AMMETER; VOLT METER; KWH METER | 100% SOLID STATE TRIP C/B, 50,000 AIC AT 480V. 7 ADJUSTABLE TRIP FUNCTIONS, I.SIG. PROVIDE ± 1% INSTRUMENTS; SELECTOR SWITCHES; SHUNT TRIP. |
| | | | | | | |
| 2AL | AERATOR # 1. | 52S2W | 125 | 31M | S1, S2, O, R; FFT, X4, PG, PA, R1, R2. | WIRE BOTH SPEEDS THRU REMOTE POSITION TO AERATOR CONTROL PANEL WIRE 120 V. SPACE HEATER THRU 2-N.C. CONTACTS. WIRE ALARM CONTACTS TO AERATOR CONTROL PANEL, PROVIDE COMPELLING RELAY R1 TO START IN LOW SPEED (15 SEC.), R2 TO DECELERATE (20 SEC.) BEFORE TRANSFER FROM HIGH TO LOW SPEED. |
| 3AL | AERATOR # 2. | 52S2W | 125 | 31M | | |
| 4AL | AERATOR # 3. | 52S2W | 125 | 31M | | |
| 5AL | AERATOR # 4. | 52S2W | 125 | 31M | S1, S2, O, R; FFT, X4, PG, PA, R1, R2 | |
| | | | | | | |
| | | | | | | |

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| RD | 4-21-92 |

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| B | FOR BIDDING ONLY |
| O | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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CHECKED P.M.E.

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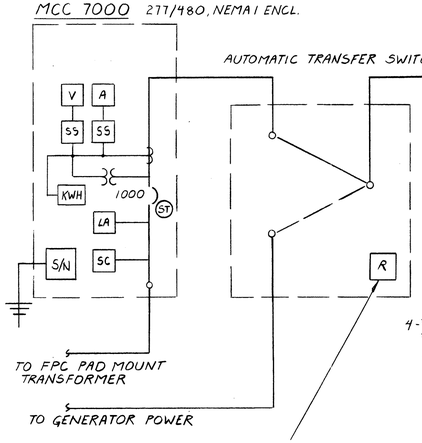
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
OXIDATION REACTORS- ELECTRICAL
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 148 OF 166

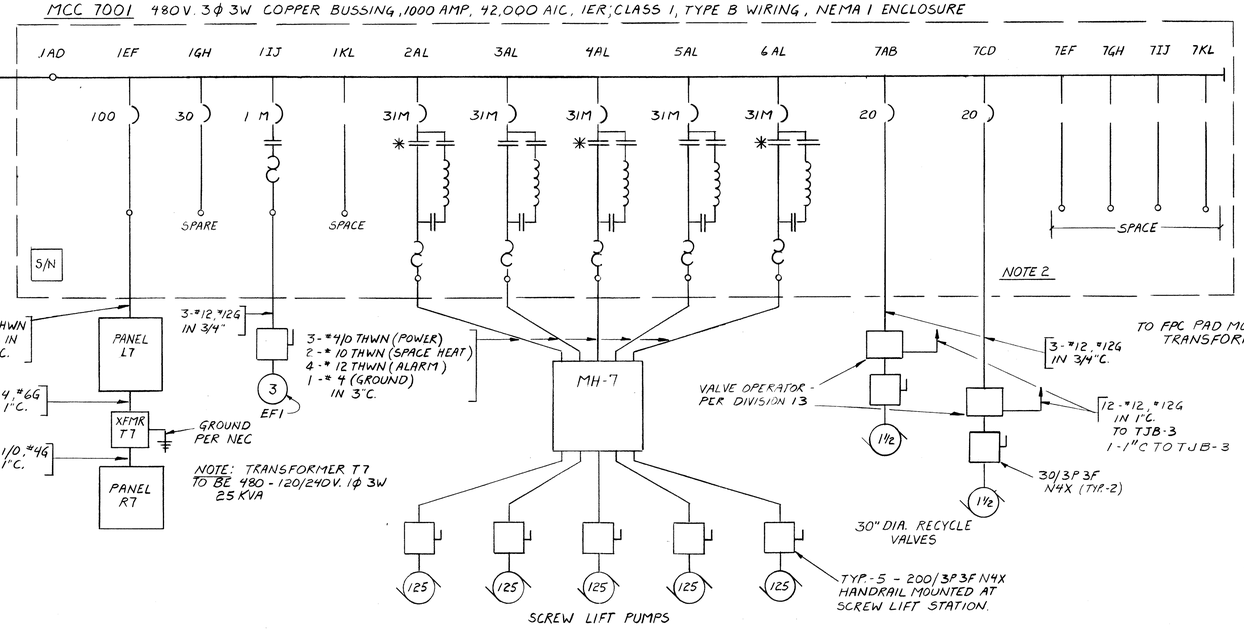
PROJ. NO. 87054-2
FILE NO. 1312↓

92016

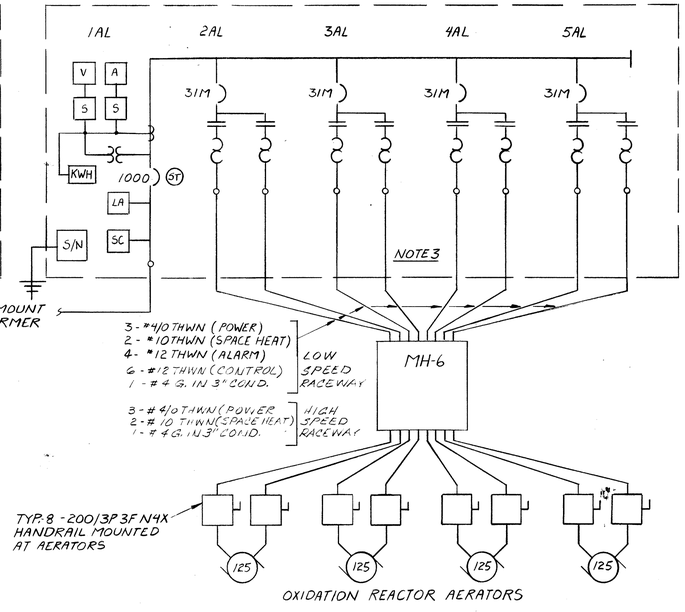
## MCC 7000 277/480, NEMA 1 ENCL.



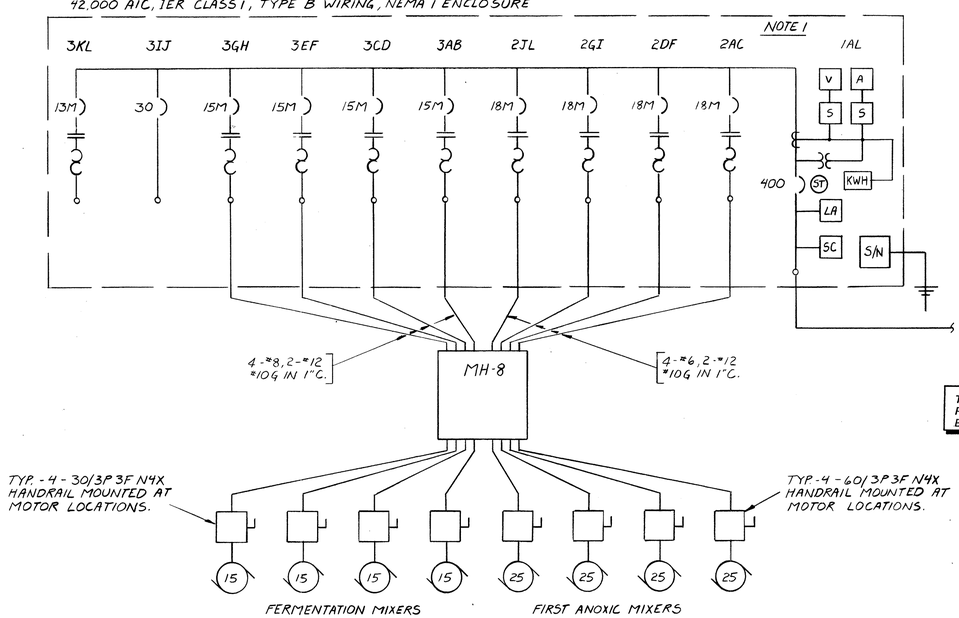

## MCC 7001 480V. 3φ 3W COPPER BUSSING, 1000 AMP, 42,000 AIC, IER; CLASS 1, TYPE B WIRING, NEMA 1 ENCLOSURE




## MCC 7002 480V. 3φ 3W COPPER BUSSING, 1000 AMP, 42,000 AIC, IER CLASS 1, TYPE B WIRING, NEMA 1 ENCLOSURE




## MCC 7003 480V. 3φ 3W COPPER BUSSING, 400 AMP 42,000 AIC, IER CLASS 1, TYPE B WIRING, NEMA 1 ENCLOSURE

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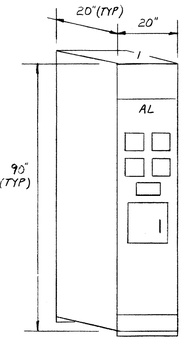
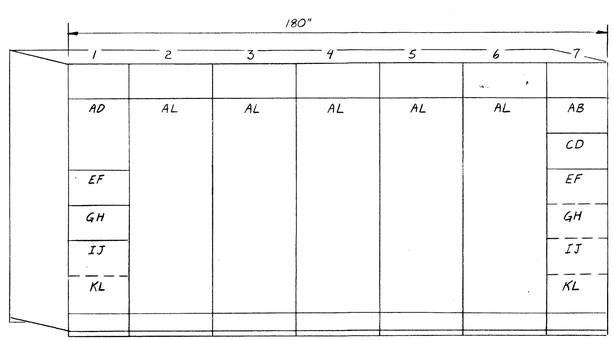



MCC 7000

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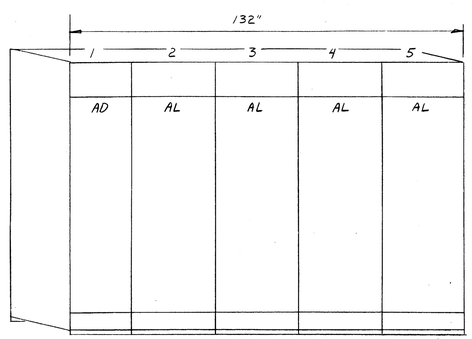


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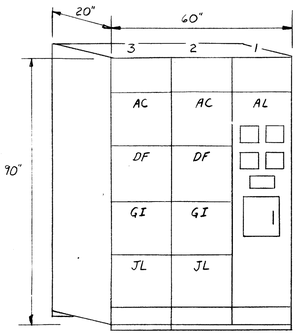


MCC 7003

NOTES:

1. MCC 7003 - PROVIDE ALARM RELAY TO ANNUNCIATE EACH MOTOR FAILURE TO TELEMETRY JUNCTION BOX (TJB-3). WIRE 2-#14 FROM DRY RELAY CONTACT TO TJB. COMBINE WIRING IN 1"C.
2. MCC 7001 - MOTOR ALARM CONTACTS WIRED TO SCREW PUMP CONTROL PANEL. CONTROL PANEL TO OPERATE STARTERS IN AUTO POSITION; ANNUNCIATE ALARM.
3. MCC 7002 - MOTOR ALARM CONTACTS WIRED TO AERATOR CONTROL PANEL. CONTROL PANEL TO OPERATE STARTERS IN AUTO POSITION; ANNUNCIATE ALARM.
4. WIRE SHUNT TRIPS (3) TO SHUNT TRIP STATION PER PLAN. WIRING TO BE ENCASED IN CONCRETE.

| STATUS | ACTION DATE |
|---|---|
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| | |
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MOTOR CONTROL CENTER ELEVATIONS

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

**RECORD DRAWING**

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DESIGNED PME | DRAWN KMC | CHECKED PME

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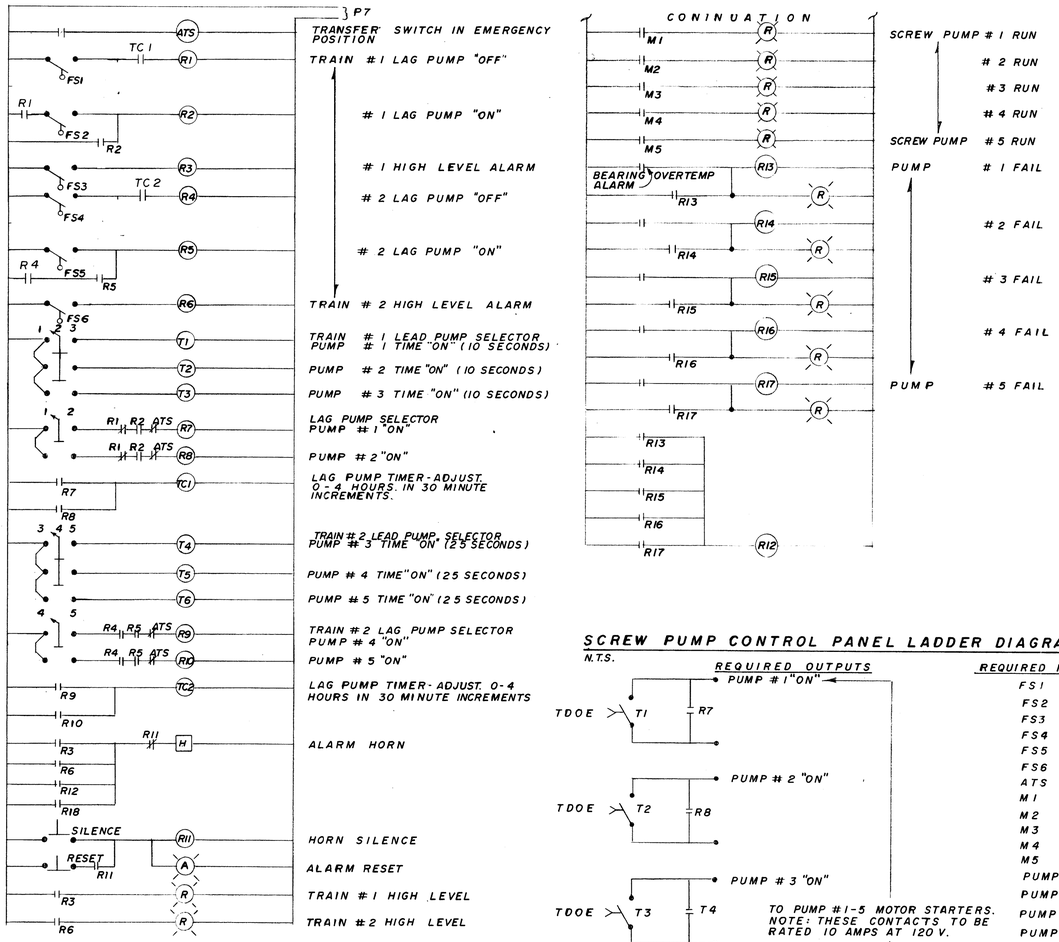
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**MCC 7000, 7001, 7002, 7003 & ONE LINE DIAGRAMS**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 149 OF 166

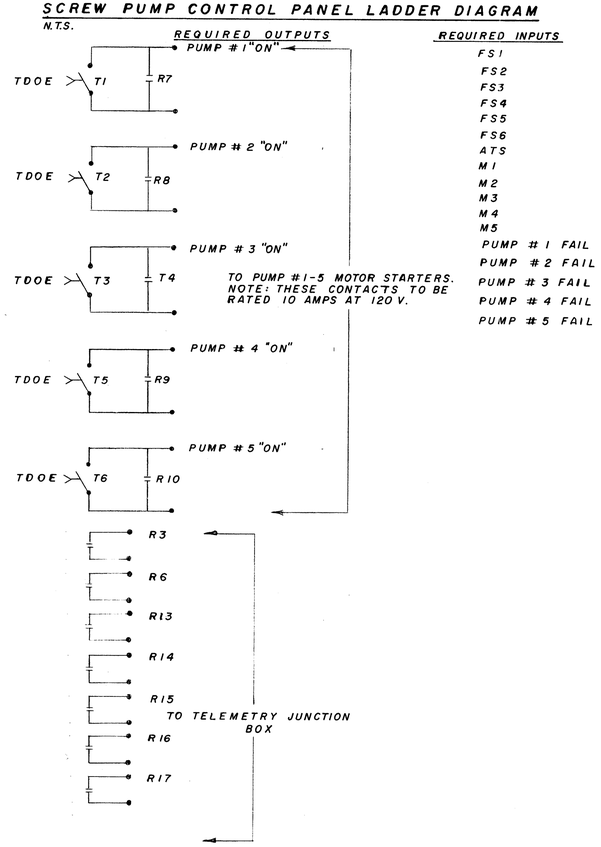
PROJ. NO. 87054-2 | FILE NO. 13122

92016

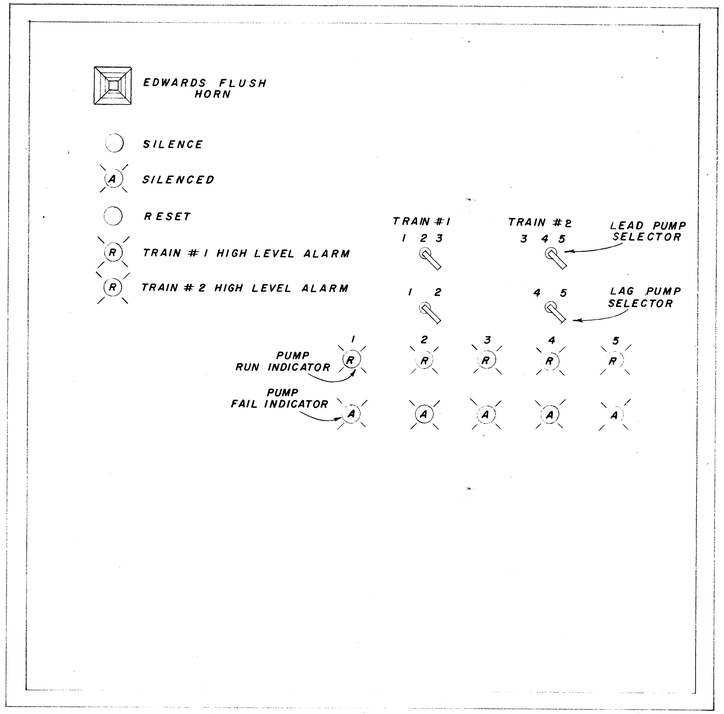



## SCREW PUMP CONTROL PANEL LADDER DIAGRAM

N.T.S.




| REQUIRED OUTPUTS | REQUIRED INPUTS |
|---|---|
| | FS1 |
| | FS2 |
| | FS3 |
| | FS4 |
| | FS5 |
| | FS6 |
| | ATS |
| | M1 |
| | M2 |
| | M3 |
| | M4 |
| | M5 |
| PUMP # 1 FAIL | |
| PUMP # 2 FAIL | |
| PUMP # 3 FAIL | |
| PUMP # 4 FAIL | |
| PUMP # 5 FAIL | |




## SCREW PUMP CONTROL PANEL LAYOUT

N.T.S.

### NOTES

1. PROVIDE 20 % SPARE TERMINAL BLOCKS.
2. PROVIDE DETAILED WIRING DIAGRAM IN DOOR POCKET.
3. IN LIEU OF CONVENTIONAL ELECTRO-MECHANICAL RELAYS AN ALLEN BRADLEY PROGRAMMABLE CONTROLLER MAY BE USED: PROVIDE 20% SPARE INPUT / OUTPUT CAPACITY. OUTPUTS MUST BE RATED FOR APPLIED LOADS.
4. PANEL TO BEAR UL LABEL.
5. △ THE SCREW PUMP CONTROL PANEL LOCATED IN THE GENERATOR/MCC BUILDING SHALL BE FURNISHED UNDER SECTION 16100 - ELECTRICAL.

### SYSTEM OPERATION

Train #1 includes Screw Pumps #1 & #2.

Train #2 includes Screw Pumps #4 & #5

Screw Pump #3 to be standby for both trains.

A lead and lag pump must be selected for each train.

Lead pump for each train to run continuously.

Lag pump for each train to run on float demand for interval programmed on time clock.

Alarm with silence and reset for train #1 & #2 high level, pump # 1-5 fail, recycle valve fail. Each to be annunciated at telemetry junction box.

When automatic transfer switch is in emergency position lag pumps disabled and recycle valves close, THRW TJB.

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| STATUS | ACTION DATE |
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| RD | 4-21-92 |
| P | PRELIMINARY |
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| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| REV. NO. | DATE | REVISION | BY |
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| △ 1 | 5-31-89 | REVISED PER ADDENDUM # 2 | KRM |

DESIGNED P.M.E. | DRAWN G.A.B. | CHECKED P.M.E.

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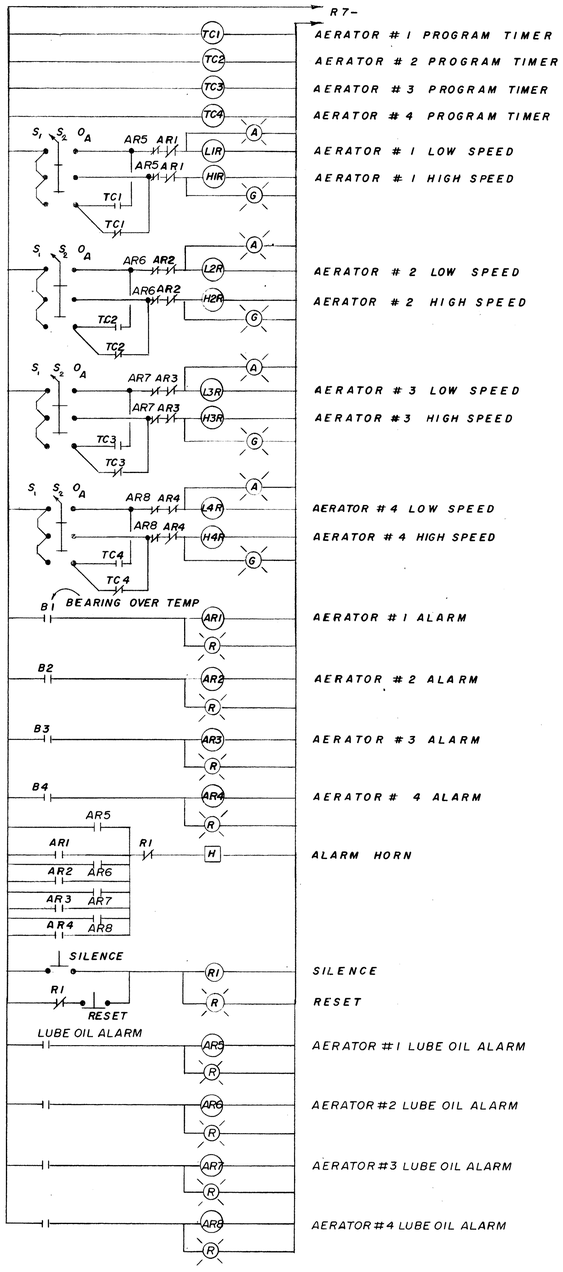
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SCREW LIFT STATION-CONTROL PANELS**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | PROJ. NO. 87054-2
SCALE: AS SHOWN | FILE NO. 13123
SHEET NO. 150 OF 166

92016




**REQUIRED INPUTS**

8 - ALARM SIGNALS FROM AERATORS.

**REQUIRED OUTPUTS**

4 - LOW SPEED CONTACTS (DRY) TO REMOTE POSITION SWITCH ON MCC. + LOCAL CONTROL STATION

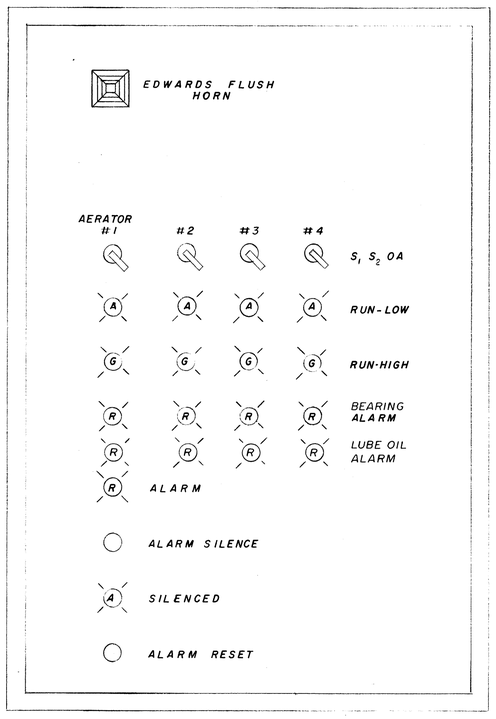
4 - HIGH SPEED CONTACTS (DRY) TO REMOTE POSITION SWITCH ON MCC.

4 - ALARM CONTACTS TO MCC TO SHUT DOWN MOTORS WHEN MANUALLY CONTROLLED FROM MCC.

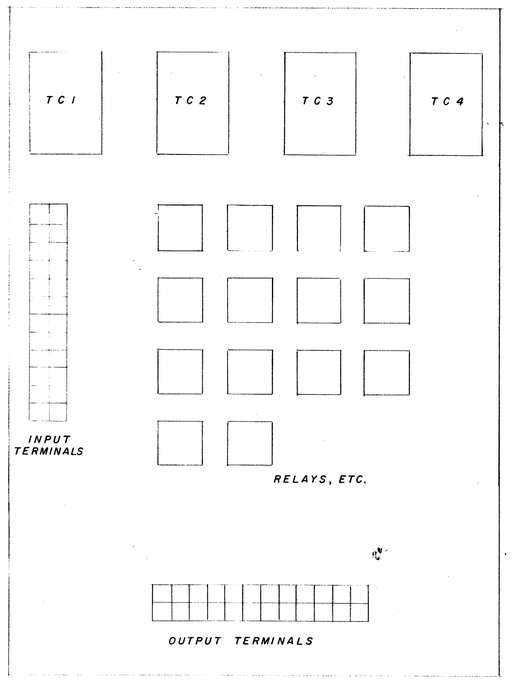
8 - ALARM CONTACTS TO TELEMETRY JUNCTION BOX FOR REMOTE ALARM ANNUNCIATION.

**NOTES**

1. - TC1, TC2, TC3 AND TC4 TO BE TORK MODEL 8001 OR EQUAL.
2. - RELAYS FEEDING STARTERS TO BE RATED 10 AMP. 240 V. AC.
3. - PANEL TO BEAR UL LABEL.
4. - WIRE S1, S2, O, R SWITCHES IN MCC + LOCAL STATION TO OPERATE EACH AERATOR ACCORDINGLY.




PANEL EXTERIOR
N.T.S.




PANEL INTERIOR
N.T.S.

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## AERATOR CONTROL PANEL

SYSTEM OPERATION

Aerator motors are two speed. In automatic position each motor to run continuously. Time clock associated with each motor to determine low speed interval in 15 minute increments.

Motor bearing temperature and lube oil alarms to shut down aerator and annunciate it locally and to telemetry junction box.

NOTE: AERATOR CONTROL PANEL SPECIFIED AND FURNISHED UNDER DIVISION 11378-2.08. FIELD WIRING UNDER DIVISION 16.

**RECORD DRAWING**

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|---|---|
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DRAWN G.A.B.
CHECKED P.M.E.
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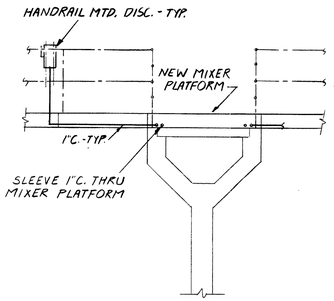
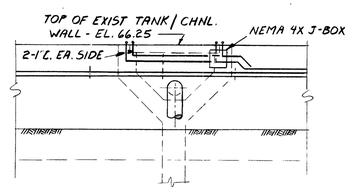
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
OXIDATION REACTORS-
AERATOR CONTROL
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 151 OF 166
PROJ. NO. 87054-2
FILE NO. 13124

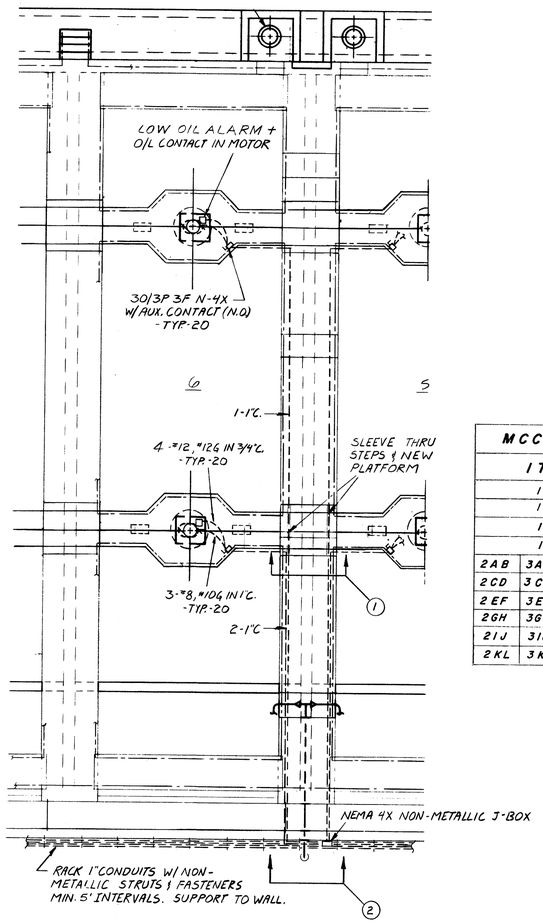
92016



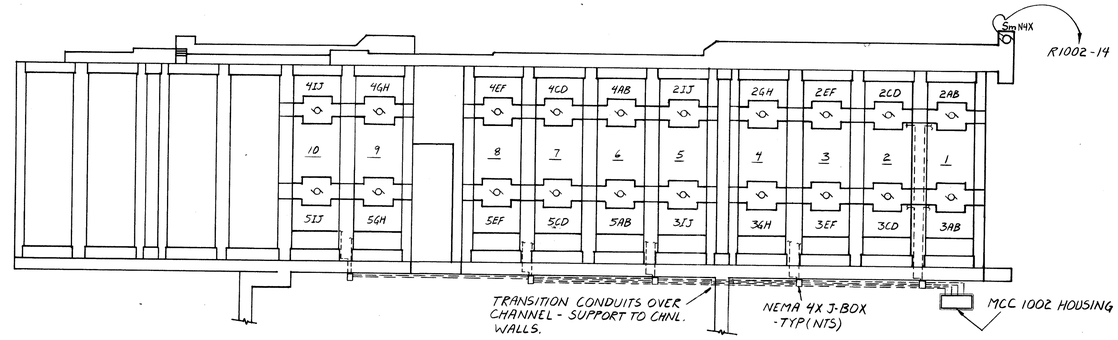

DETAIL (1)
SCALE: 1/4"=1'-0"




DETAIL (2)
SCALE: 1/4"=1'-0"



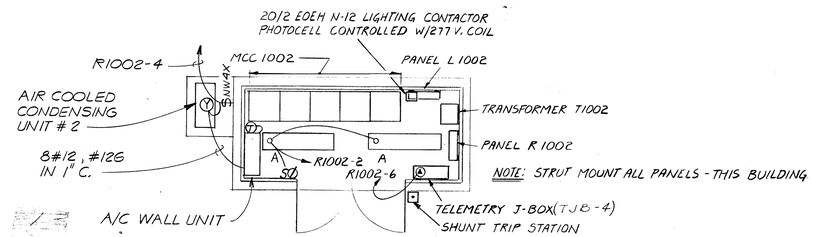

TYPICAL 2ND ANOXIC/REAERATION TANK PLAN
SCALE: 1/8"=1'-0"




SECOND ANOXIC & REAERATION TANKS - PLAN
SCALE (APPROX): 1"=30'

MCC 1002

| ITEM # | | | | DESCRIPTION | DEVICE | HP(KW) | C/B TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1HL | | | | MAIN BREAKER | T-M | —— | 400 | —— | —— |
| 1AB | | | | PANEL "L" FEED | T-M | (20) | 100 | —— | PROVIDE NEUTRAL CONNECTION. |
| 1CD | | | | SPARE | 1FVNR | —— | 13M | ON/OFF; PG; X4; FFT. | |
| 1EF | | | | IN PLANT PUMP STATION#1 | T-M | 45 | 90 | | WIRE ALARM CIRCUIT TO TJB |
| 2AB | 3AB | 4AB | 5AB | SUBMERGED TURBINE MIXER | 1FVNR | 7 1/2 | 13M | ON/OFF; PG; X4; FFT. R1 | WIRE ALARM CIRCUIT IN MOTOR TO SHUT DOWN STARTER THROUGH RELAY R1. WIRE CONTACT OF RELAY TO TJB. |
| 2CD | 3CD | 4CD | 5CD | | | | | | " " " |
| 2EF | 3EF | 4EF | 5EF | | | | | | " " " |
| 2GH | 3GH | 4GH | 5GH | | | | | | " " " |
| 2IJ | 3IJ | 4IJ | 5IJ | SUBMERGED TURBINE MIXER | 1FVNR | 7 1/2 | 13M | ON/OFF; PG; X4; FFT. | |
| 2KL | 3KL | 4KL | 5KL | SPACE | —— | —— | —— | —— | —— |




MCC 1002 HOUSING
SCALE: 1/4"=1'-0"

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LEGEND

EXISTING

PROPOSED

**RECORD DRAWING**

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

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|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
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| 0 | RELEASED FOR CONSTRUCTION |
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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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DRAWN K.M.C., G.A.B.
CHECKED P.M.E.

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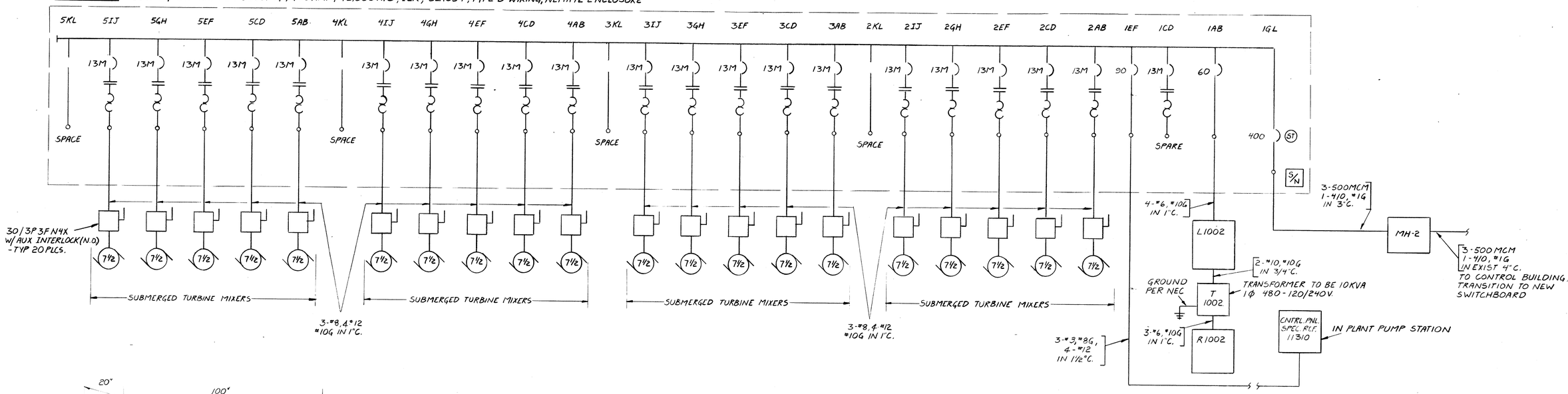
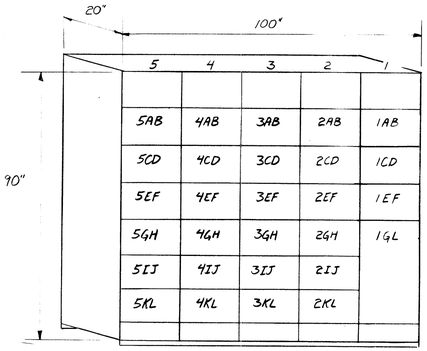
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SECOND ANOXIC & REAERATION TANKS - ELECTRICAL
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 152 OF 166
PROJ. NO. 87054-2
FILE NO. 13125

92016

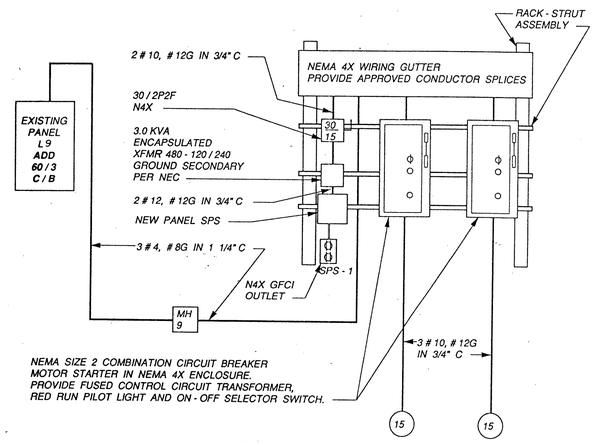
## MCC 1002 480V. 3ϕ 3W COPPER BUSSING, 400 AMP, 42,000 AIC, IER; CLASS 1, TYPE B WIRING, NEMA 12 ENCLOSURE




MCC 1002 ELEVATION

SCALE: ½" = 1'-0"




SLUDGE TRANSFER STATION ONE LINE DIAGRAM

SCALE: NONE ⚠1

### PANEL R1002

MFG. SQ. D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 100 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface/Strut MAIN 60/2 c/b GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1,3,5 | Sump pumps | 1 | 20 | #12 | 3/4" | | |
| 2 | Lights | 1 | 20 | #12 | 3/4" | | |
| 8,10 | A/C WALL UNIT | 2 | 20 | #12 | 3/4" | | |
| 6 | TJB-4 | 1 | 20 | #12 | 3/4" | | |
| 7,9 | Sump pumps | 1 | 20 | #12 | 3/4" | | |
| 4,12 | Spare | 1 | 20 | | | | |
| 11,13 | Spare | 2 | 20 | | | | |
| 15-24 | Space | 1 | | | | | |
| 14 | SAMPLE PUMP | 1 | 20 | #12 | 3/4" | | |

⚠1

### PANEL SPS

MFG. SQ'D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. QO612L100RB AMPS. 100 SYM. A.I.C. (I.E.R.) 10,000

MOUNT STRUT MAIN 20/2 C/B Back Fed GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1 | OUTLET | 1 | 20 | #12 | 3/4" | | |
| 2 | LIGHTS | 1 | 20 | #12 | 3/4" | | |
| 3-6 | SPACE | 1 | - | - | - | | |

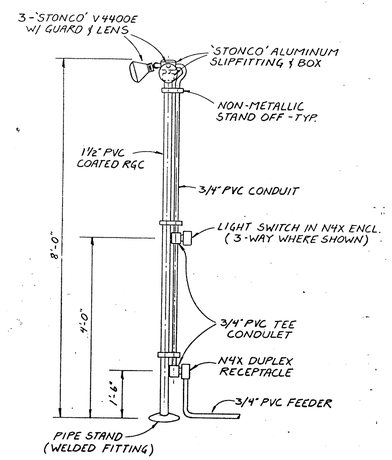
### PANEL L1002

MFG. SQ. D VOLTAGE 277/480 PHASE 3 WIRE 4

CAT. NEHB AMPS. 100 SYM. A.I.C. (I.E.R.) 14,000

MOUNT Surface/Strut MAIN lugs only GND. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB | ØC |
|---|---|---|---|---|---|---|---|---|
| 1,3 | Yard lights | 1 | 20 | #12 | 3/4" | | | |
| 2,4 | Transformer T1002 | 2 | 30 | #10 | 3/4" | | | |
| 5,6 | Spare | 1 | 20 | | | | | |
| 7-12 | Space | 1 | | | | | | |




FIXTURE OD DETAIL ⚠

NOT TO SCALE

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# RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

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|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
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| ⚠1 | 7-25-91 | REVISED PER E.O. #15 & RECORD DRAWINGS | GLB |

DESIGNED PME | DRAWN KMC | CHECKED PME

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

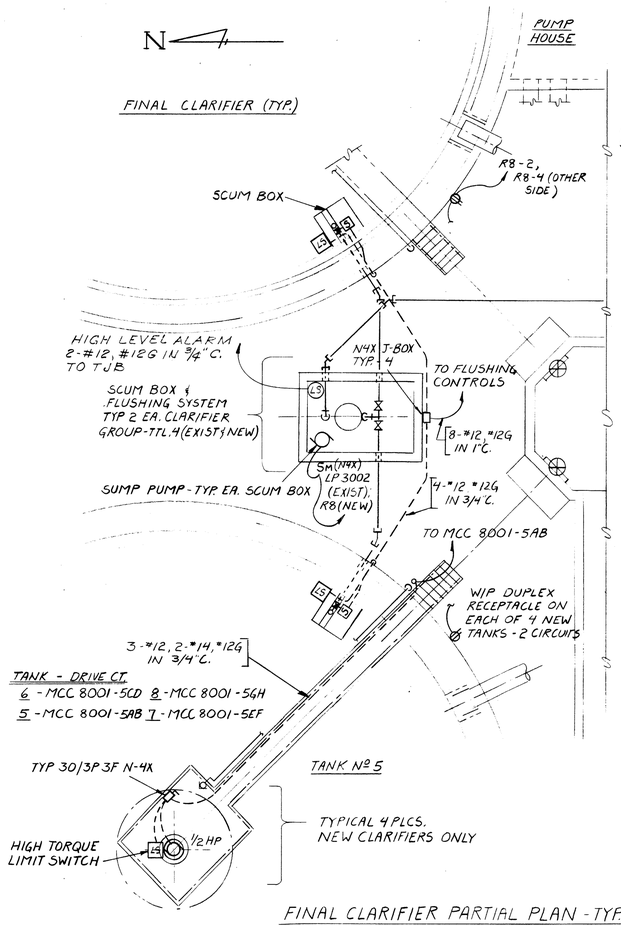
SECOND ANOXIC TANK - MCC 1002 & ONE LINE DIAGRAM

CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 153 OF 166

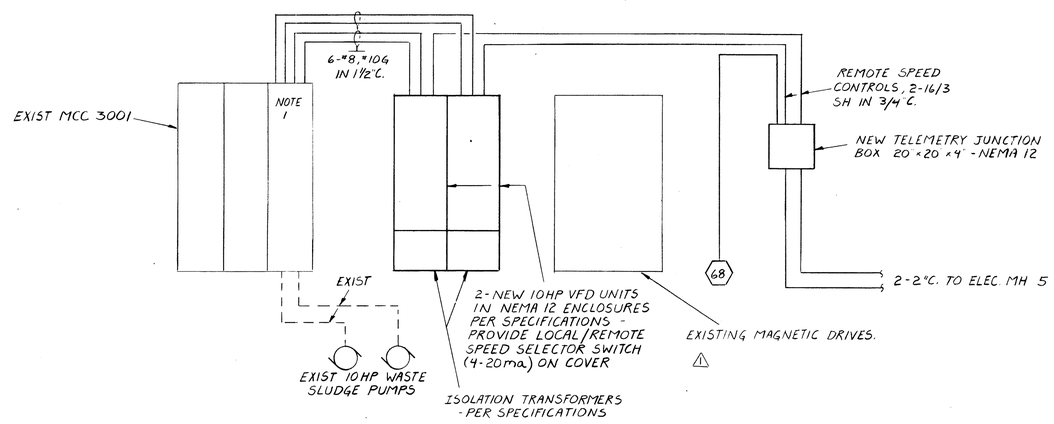
PROJ. NO. 87054-2 | FILE NO. 13126

92016




FINAL CLARIFIER PARTIAL PLAN - TYP. EXIST & NEW

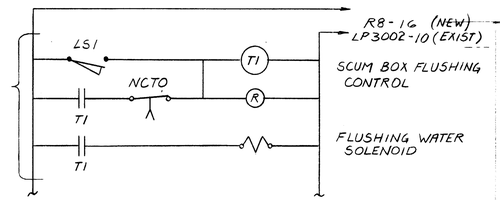
SCALE: 1/8" = 1'-0"



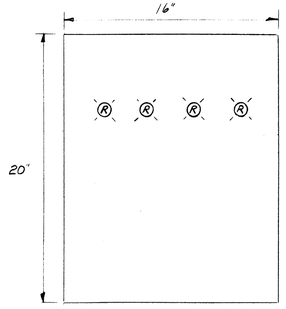

EXIST MCC 3001 ADDITIONS & MODIFICATIONS

NOT TO SCALE

NOTES: 1. REPLACE 2-SIZE 1 FVNR STARTERS WITH 2-30/3 T-M C/B'S (ITE SERIES 5600 MCC). PROVIDE NAMEPLATES INDICATING LOADS.

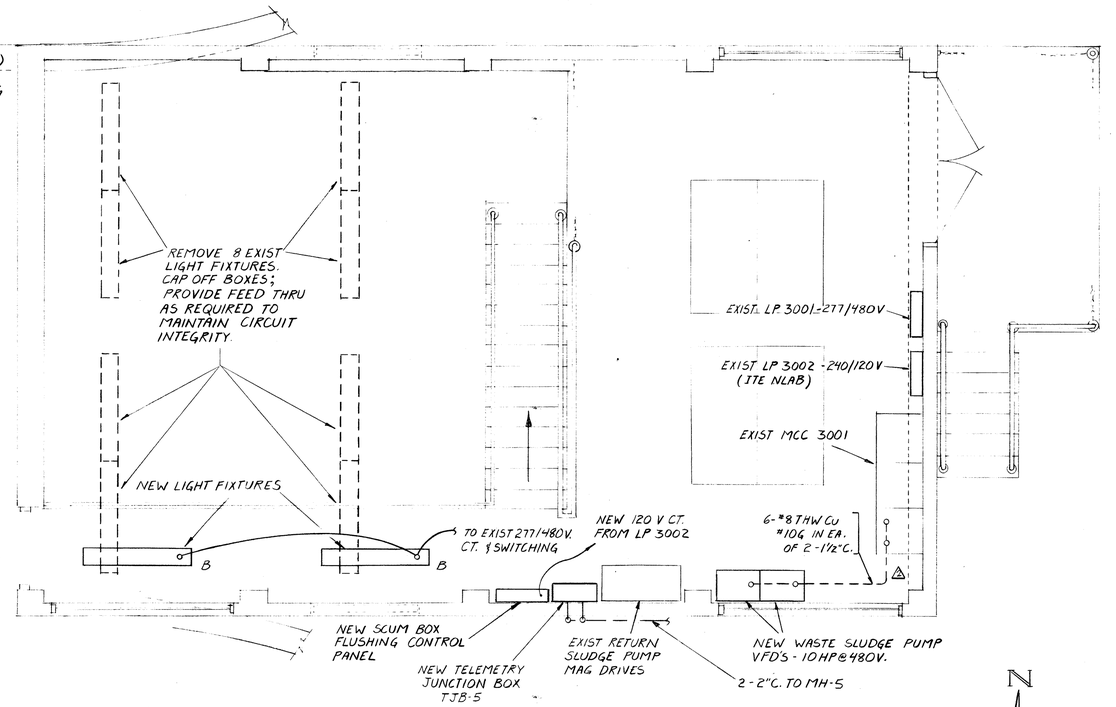



LIMIT SWITCHES TO BE SQUARE D 9007 TYPE C62J. MOUNT SUCH THAT CLARIFIER MECHANISM TRIPS SWITCH WHEN IT CLEARS SCUM BOX. TIMER T TO BE KNOB ADJUSTABLE TIMER 0-60 SECONDS, AGASTAT OR EQUAL




SCUM BOX FLUSHING CONTROL PANEL

NOT TO SCALE




EXIST FINAL CLARIFIER PUMP HOUSE - UPPER LEVEL PLAN

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

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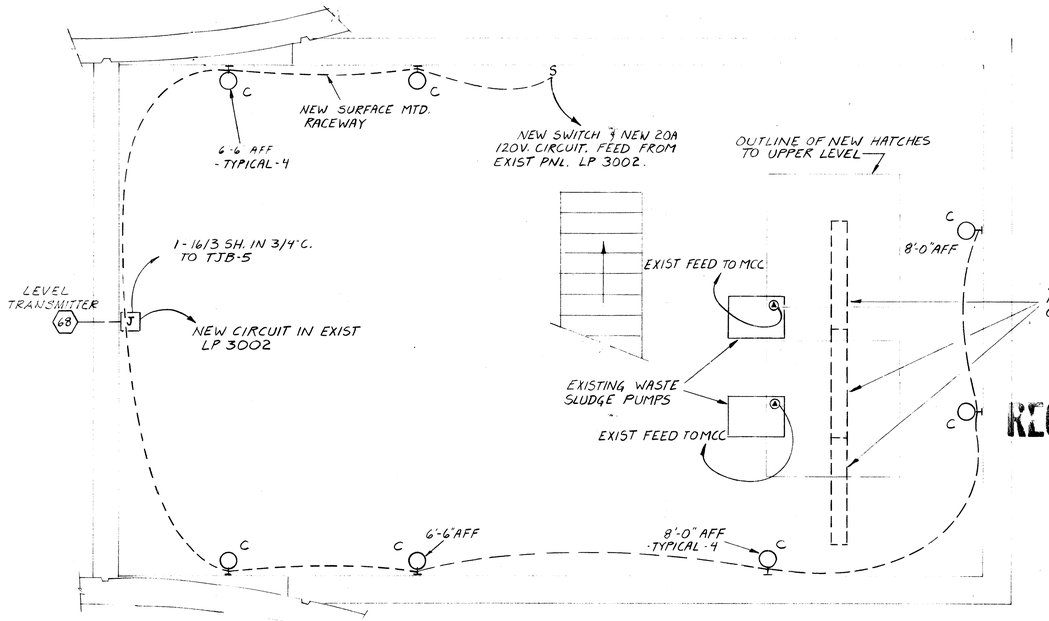


EXIST FINAL CLARIFIER PUMP HOUSE - LOWER LEVEL PLAN

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

RECORD DRAWING

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
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| | |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 2 | 4-16-92 | RECORD DRAWING | DMP |
| 1 | 5-1-89 | REVISED PER ADDENDUM # 2 | KRM |

DESIGNED PME | DRAWN KMC | CHECKED PME

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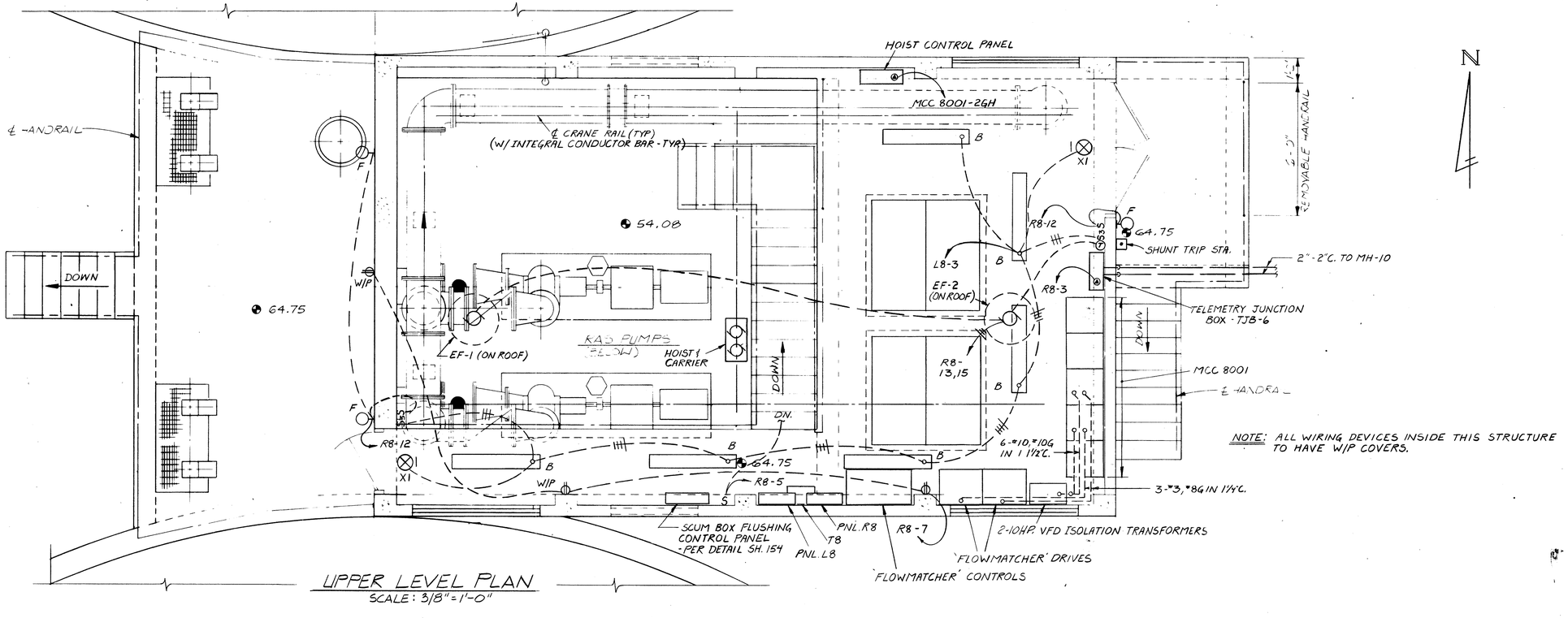
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FINAL CLARIFIERS & EXISTING PUMP HOUSE-ELECTRICAL**
CLEARWATER, FLORIDA

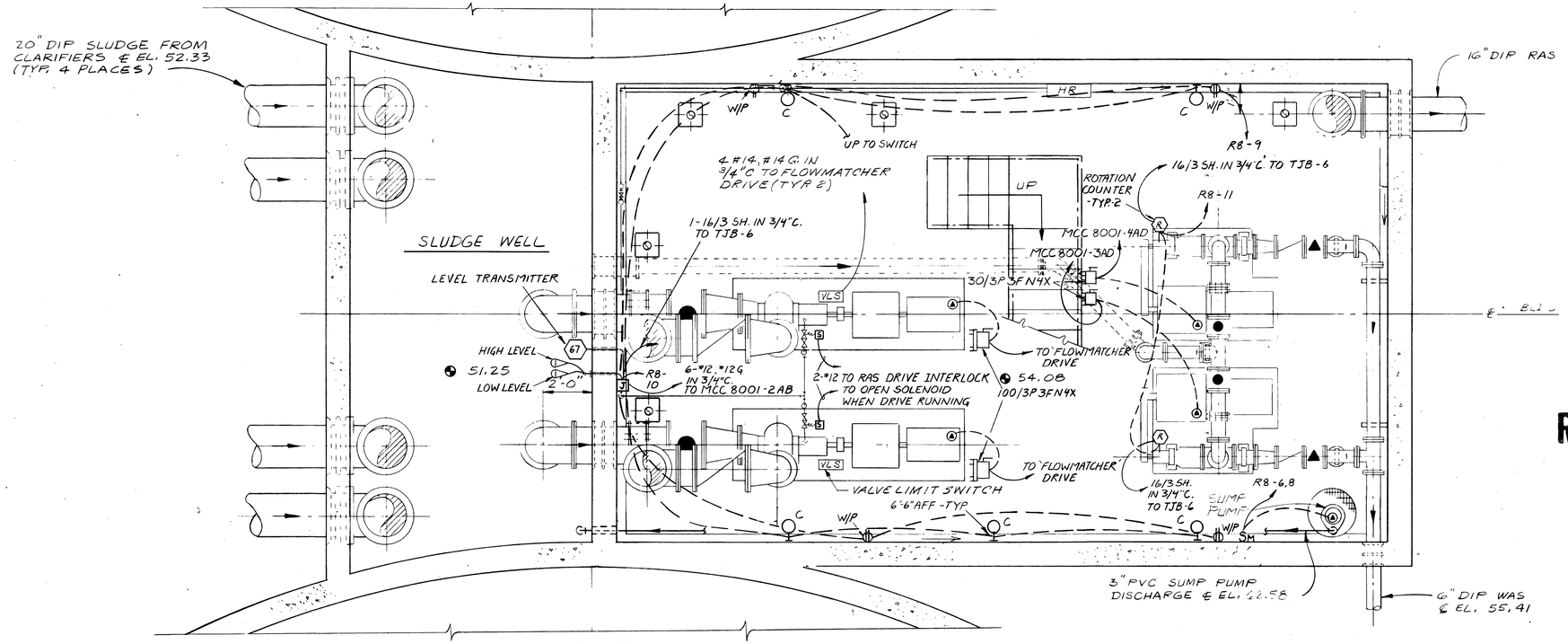
DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 154 OF 166

PROJ. NO. 87054-2 | FILE NO. 13127

92016




## UPPER LEVEL PLAN
SCALE: 3/8" = 1'-0"




## LOWER LEVEL PLAN
SCALE: 3/8" = 1'-0"

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|---|---|---|---|
| P | | PRELIMINARY | |
| E | | FOR EST. MAT. & TAKE-OFF | |
| B | | FOR BID OR NEGOTIATION | |
| O | | RELEASED FOR CONSTRUCTION | |
| R | | AS BUILT | |
| H | | DESTROY PRINTS OF THIS NO. | |
| A | | APPROVED | |
| C | | NOT FOR APPROVAL | |
| RD | | RECORD DRAWING | |

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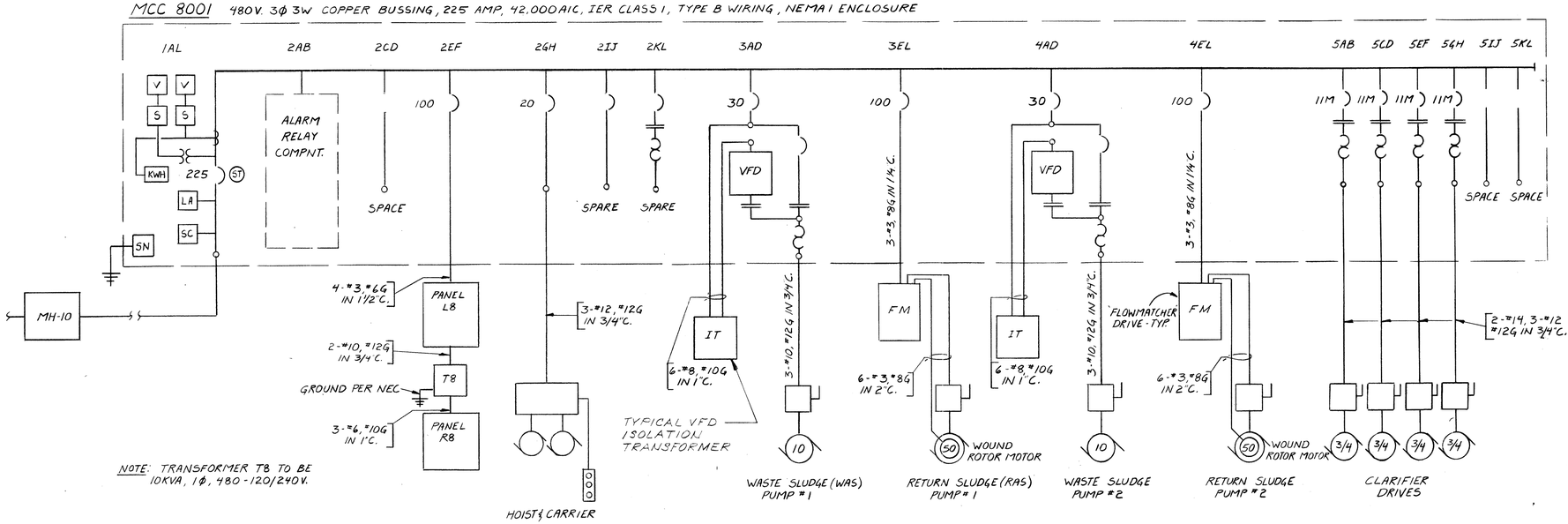
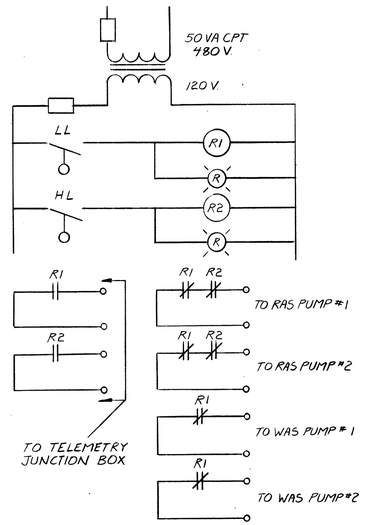
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**FINAL CLARIFIERS (PUMP HOUSE)-**
**ELECTRICAL**
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 155 OF 166
JOB NO. 87054-2
FILE NO. 13128

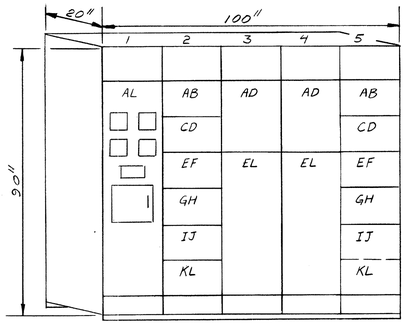
92016




NOTE: TRANSFORMER T8 TO BE 10KVA, 1Φ, 480-120/240V.




ALARM RELAY COMPARTMENT




MCC 8001 ELEVATION

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

NOTE: SEE SHT 157 FOR SERVICE RISER DIAGRAM.

PANEL L8

MFG. SQ. D VOLTAGE 277/480 PHASE 3 WIRE 4

CAT. NEHB AMPS. 100 SYM. A.I.C. (I.E.R.) 14,000

MOUNT Surface MAIN lugs only GND. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB | ØC |
|---|---|---|---|---|---|---|---|---|
| 1 | Yard lights | 1 | 20 | #10 | 3/4" | | | |
| 2,4 | Xfmr T8 | 2 | 30 | #10 | 3/4" | | | |
| 3 | Lights | 1 | 20 | #12 | 3/4" | | | |
| 5,6 | Spare | 1 | 20 | | | | | |
| 7-12 | Space | | | | | | | |

PANEL R8

MFG. SQ. D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 100 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface MAIN 60/2 c/b GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1 | MH #10 sump pump | 1 | 20 | #10 | 3/4" | | |
| 2,4 | Outlets-clarifrs | 1 | 20 | #10 | 3/4" | | |
| 3 | Telemetry J box | 1 | 20 | #12 | 3/4" | | |
| 5 | Lower level lts | 1 | 20 | #12 | 3/4" | | |
| 6,8 | Sump pump | 2 | 20 | #12 | 3/4" | | |
| 7,9 | Outlets | 1 | 20 | #12 | 3/4" | | |
| 10 | Level Xmitter | 1 | 20 | #12 | 3/4" | | |
| 11 | Rotation counters | 1 | 20 | #12 | 3/4" | | |
| 12 | Lights | 1 | 20 | #12 | 3/4" | | |
| 13,15 | Fans | 1 | 20 | #12 | 3/4" | | |
| 14,16,17,19 | SCUM BOX SUMP PUMPS | 1 | 20 | #12 | 3/4" | | |
| 18,20-24 | Space | 1 | | | | | |

MCC 8001

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|
| 1AL | MAIN CIRCUIT BREAKER | T-M | — | 200 | AM; VM; WHM; C/TS; PTS; LA; SC. | PROVIDE UL SE LABEL; PROVIDE ± 1% INSTRUMENTS; INSTRUMENT TRANSFER SWITCHES. |
| 2AB | ALARM RELAY COMPARTMENT | — | — | — | — | PROVIDE RELAYS AND WIRING PER DETAIL. |
| 2CD | SPACE | — | — | — | — | — |
| 2EF | PANEL L8 | T-M | (20) | 100 | — | PROVIDE NEUTRAL CONNECTION. |
| 2GH | HOIST CONTROL PANEL | T-M | (6) | 20 | — | — |
| 2IJ | SPARE | T-M | — | 30 | — | — |
| 2KL | SPARE | IFVNR | — | 11M | HOA; PR. FFT; X4. | |
| 3AD | WAS PUMP | VFD | 10 | 30 | HOR; PG; PR; PA; X4; ON/OFF | VARIABLE FREQUENCY DRIVE PER SPECIFICATIONS. PROVIDE AND WIRE ISOLATION |
| 3EL | RAS PUMP | T-M | 40 | 70 | — | TRANSFORMERS; MANUAL BYPASS; LOCAL SPEED CONTROL; % R.P.M. |
| 4AD | WAS PUMP | VFD | 10 | 30 | HOR; PG; PR; PA; X4; ON/OFF | INDICATOR; DIAGNOSTIC FAILURE INDICATOR. |
| 4EL | RAS PUMP | T-M | 40 | 70 | — | WIRE FLOMATCHER CONTROL PER MFR. REQUIRMENTS |
| 5AB | CLARIFIER DRIVE | IFVNR | 3/4 | 11M | HOA; PR; X4; FFT; RI. | |
| 5CD | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 5EF | ↓ | ↓ | ↓ | ↓ | ↓ | |
| 5GH | CLARIFIER DRIVE | IFVNR | 3/4 | 11M | HOA; PR; X4; FFT; RI. | |
| 5IJ | SPACE | | | | | |
| 5KL | SPACE | | | | | |

RI - ALARM RELAY WIRED FROM LIMIT SWITCH AT CLARIFIER TO SHUT DOWN MOTOR AND PROVIDE SIGNAL TO TJB.
MAIN BREAKER TO INCLUDE 120V. SHUNT TRIP.

THIS RECORD DRAWING IS BASED IN PART ON INFORMATION FURNISHED BY OTHERS.

# RECORD DRAWING

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|---|---|
| RD | 4-21-92 |

| | |
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|---|---|---|---|
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CHECKED P.M.E.

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CONSULTING ENGINEERS AND PLANNERS
Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
FINAL CLARIFIERS - MCC 8001 & ONE LINE DIAGRAM
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 156 OF 166
PROJ. NO. 87054-2
FILE NO. 13129

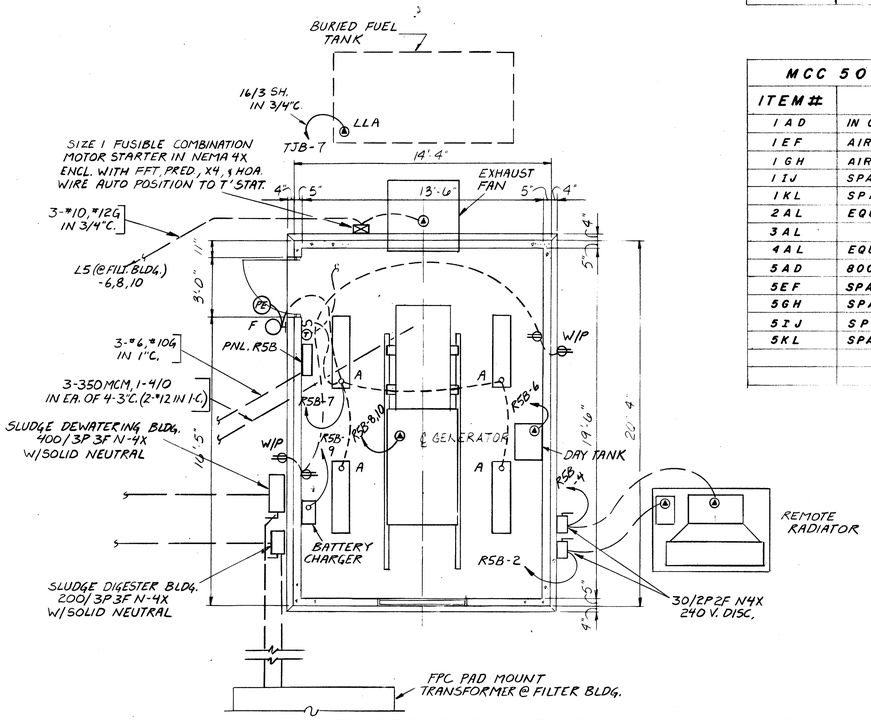
92016

## MCC 5000

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|
| 1AL | MAIN CIRCUIT BREAKER | SSCB | —— | 1200 | AMMETER;VOLTMETER;KWH METER | 100% RATED SOLID STATE TRIP C/B, 50,000 AIC AT 480V. 7 ADJUSTABLE TRIP FUNCTIONS, LSIG; PROVIDE 1% INSTRUMENTS; SELECTOR SWITCHES; SHUNT TRIP. |
| | | | | | | |
| | | | | | | |

## MCC 5002

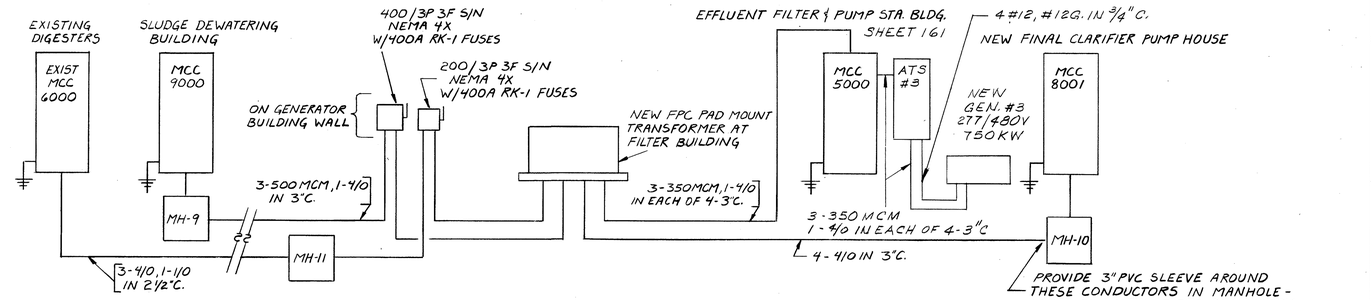
| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|
| 1AD | IN COMING LINE COMPARTMENT | —— | —— | —— | —— | —— |
| 1EF | AIR COMPRESSOR | T-M | 5 | 20 | —— | FEEDS AIR COMPRESSORS; STARTER AND ALTERNATOR FURNISHED WITH COMPRESSOR. |
| 1GH | AIR COMPRESSOR | T-M | 5 | 20 | —— | —— |
| 1IJ | SPARE | IFVNR | —— | 13M | FFT; HOA; X4 | —— |
| 1KL | SPACE | IFVNR | —— | —— | —— | —— |
| 2AL | EQUALIZATION PUMP #1. | VFD | 75 | 125 | HOR; X4; PA; PR; PG; ON/OFF, RI | VARIABLE FREQUENCY DRIVE PER SPEC'S; MANUAL BYPASS; ALARM; SPEED POT ON COVER; %/RPM |
| 3AL | " " #2 | VFD | 75 | 125 | " | INDICATOR IN REMOTE POSITION CONTROLLED BY EQUALIZATION PUMP CONTROL PANEL; PROVIDE |
| 4AL | EQUALIZATION PUMP #3 | VFD | 75 | 125 | HOR; X4; PA; PR; PG; ON/OFF. | AND WIRE ISOLATION TRANSFORMERS 3-250/Ø AND 1-4/0 N TO REFEED MCC 5001 THRU SPLICE BOX. |
| 5AD | 800 AMP. SUB FEED LUGS | —— | —— | —— | —— | —— |
| 5EF | SPARE | T-M | —— | 30 | —— | —— |
| 5GH | SPACE | IFVNR | —— | —— | —— | —— |
| 5IJ | SPACE | IFVNR | —— | —— | —— | —— |
| 5KL | SPACE | IFVNR | —— | —— | —— | —— |
| | | | | | | |
| | | | | | | |




PLAN - FILTER BLDG GENERATOR ENCLOSURE

SCALE 1/4" = 1'-0"

⚠ **SEE SHEET III-C FOR MODIFICATIONS MADE UNDER E.O. 021**




SLUDGE DIGESTER BLDG., SLUDGE DEWATERING BLDG., EFFLUENT FILTER & PUMP STATION BLDG., AND FINAL CLARIFIERS RISER DIAGRAM

NOT TO SCALE

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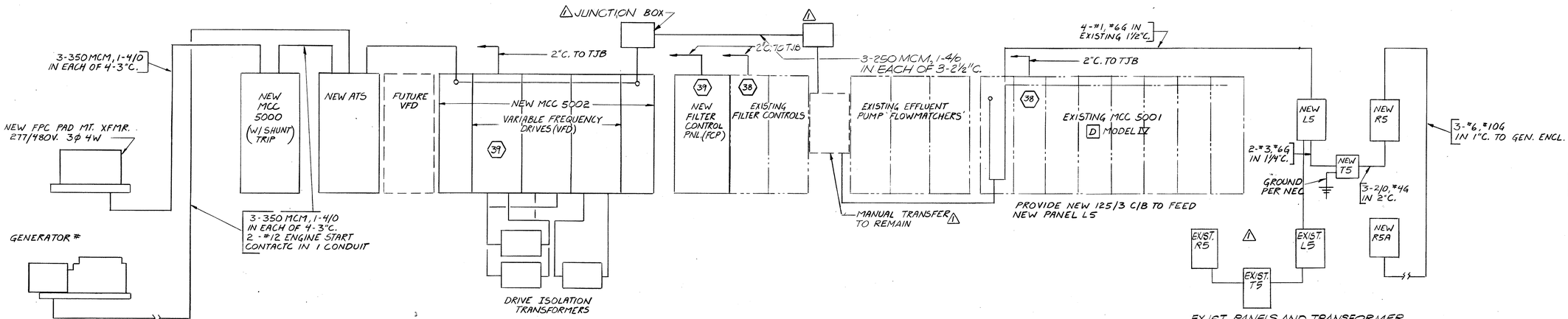


EFFLUENT FILTER & PUMP STATION BUILDING SERVICE RISER DIAGRAM

NOT TO SCALE


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| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
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| ⚠ | 7-11-91 | RECORD DRAWING | OMP |

DESIGNED P.M.E. | DRAWN K.M.C. G.A.B. | CHECKED P.M.E.

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

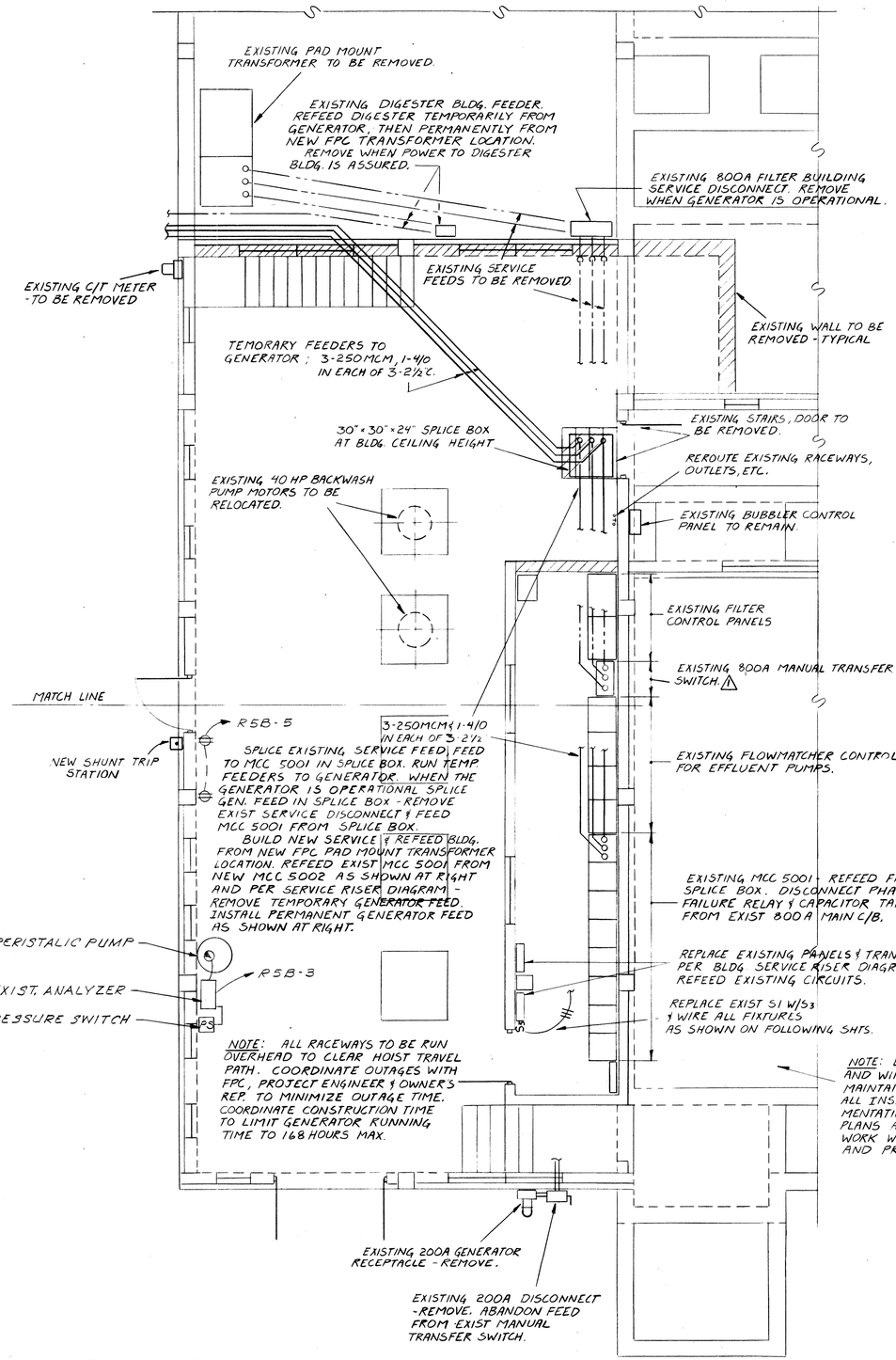
**EFFLUENT FILTER GENERATOR ENCLOSURE - ELECTRICAL**

CLEARWATER, FLORIDA

DATE: OCT. 1988 | SCALE: AS SHOWN | SHEET NO. 157 OF 166

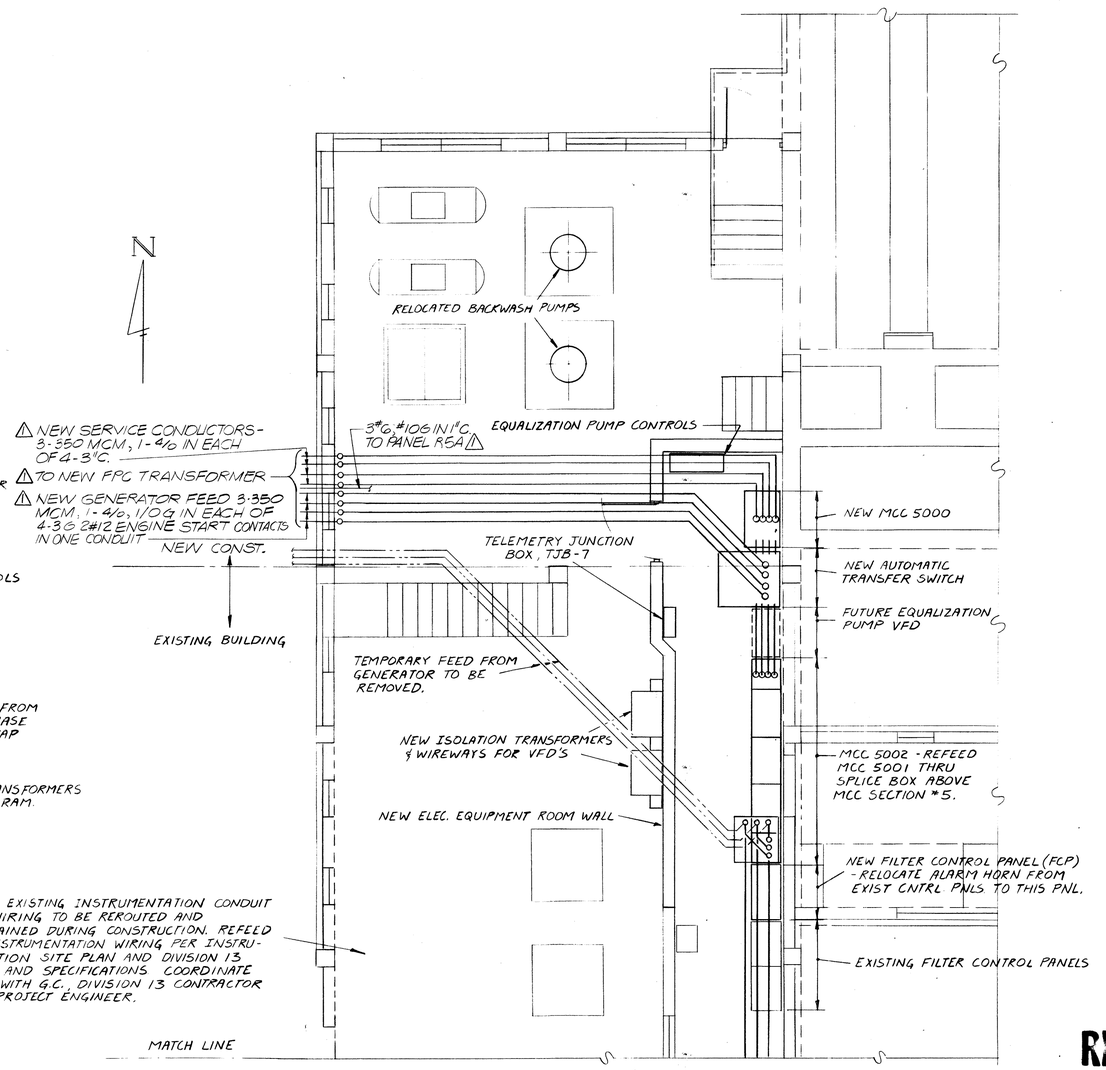
PROJ. NO. 87054-2 | FILE NO. 13130

92016




EXISTING FILTER BLDG. - PLAN - CONSTRUCTION PHASE ELECTRICAL SERVICE MODIFICATIONS

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




FILTER BLDG. - PLAN - FINAL ELECTRICAL SERVICE MODIFICATIONS

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

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING EFFLUENT FILTER-
ELECTRICAL MODIFICATIONS
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 158 OF 166

PROJ. NO. 87054-2
FILE NO. 13131

92016

N

MATCHLINE X-X

MUDWELL

CLEARWELL

64 CLEARWELL LEVEL SENSOR

UP

45.00

45.65

R5-20,22

W/P

SUMP PUMP

N-4X MANUAL MOTOR STARTER W/O.L. PROTECTION 120 V. 3/4 HP - TYP(4)

42.75

PUMP ROOM FIXT ℄ EL. 49.0

43.75

RELOCATED BACKWASH PUMPS

42.50

PUMP ROOM

R5-30

49.58

EXIST. PUMP ROOM

EXISTING

R5-28

EXIST MCC 5001

NEW 60/3P3F N-4X

EXIST MCC 5001

48.00

RELOCATED EFFL. PUMPS

CHEMICAL FEED SOLENOID BALL VLV. TYP(4)

4-"14 IN 1/2" SEALTITE TO FCC - TYP(4)

R5-23, 25

PIPE GALLERY FIXTURE ℄ EL. 50.25

EQUALIZATION P.S. WETWELL

PIPE GALLERY

TO TJB-39

R5-39

40

EXISTING CLEARWELL

R5-32

45.50

R5-24,26

N-4X

EXISTING

56.58

STAIR WELL PLAN

MATCHLINE X-X SEE STAIR WELL PLAN THIS SHT.

45.50

48.50

LOWER LEVEL PLAN

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

LEGEND

EXISTING

PROPOSED

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER - LOWER LEVEL ELECTRICAL PLAN**
CLEARWATER, FLORIDA

| | |
|---|---|
| DATE: OCT. 1988 | PROJ. NO. 87054-2 |
| SCALE: AS SHOWN | FILE NO. 13132 |
| SHEET NO. 159 OF 166 | |

92016

## SWITCH CLUSTER SCHEDULE

| SWITCH CLUSTER | SWITCH # | DEVICE FED | PANEL RSA CT # |
|---|---|---|---|
| S(A) | 1 | SF 1 | 1,3 |
| | 2 | SF 2 | 5,7 |
| | 3 | SF 3 | 9,11 |
| | 4 | EF 8 | 13,15 |
| | 5 | EF 5 | 2,4 |
| | 6 | EF 6 | 6,8 |
| | 7 | SF 7 | 10,12 |
| | 8 | SF 4 | 14,16 |
| S(B) | 1 | EF 9 | 17,19 |
| " | 2 | SF 10 | 21,23 |

RSA - 22, 24

3M IN - 4X

SUMP PUMP IN VALVE BOX

N

NEW FPC PAD MOUNT TRANSFORMER

RELOCATED A/C COND. UNIT

NEW A/C COND. UNIT

30/2P2F N-4X

30/2P2F N4X

18/5 IN 3/4"

EF-9 (ON ROOF)

RS-31,33

TO NEW T'STAT

TO EXIST T'STAT

RS-10,12

MCC 5002 - 1EF

MCC 5002 - 1GH

S(B) -1

AIR COMPRESSORS

S(B) -2

DROP TO LOWER LEVEL CEL. & UP TO DISC.

LS-11

MCC 5001 - EXIST

MCC 5001 - EXIST

OPERATING LEVEL

58.00

RS-27,29

MCC 5000

NEW AHU @ CEL.

EF-5 (ON ROOF)

S(A)-5

S(A)-6

EF-6 (ON ROOF)

INFLUENT CHANNEL

58.00

TOP OF GRATING EL. 61.00 (TYP.)

3/4"C. DN

RS-37

TO FCP

TOP OF GRATING EL. 61.00 (TYP.)

FILTER 9

FILTER 10

FILTER 11

FILTER 12

INFLUENT/BACKWASH TROUGH

55.42

61.00

53.00

NEW FILTER CONTROL CONSOLE (FCC)

2-SJT-18 CORDSETS. PROVIDE SLEEVES TO FCC TYP(4)

1" SLEEVE & SEAL - TYP

AIR/PULSE MIX SENSOR TYP(4)

BACKWASH LEVEL SENSOR TYP(4)

FCC

WP

42

RS-35

45.25

TO TJB-7

200/3P 3F N4X - TYP. -3

RACK & STRUT MOUNT DISC.

61.00

54.00

CONDUITS BELOW GRATING

53.00

SLEEVE & SEAL WET WELL PENETRATIONS - TYP. 4

52.00

EQUALIZATION PUMPS

SF-4 (ON ROOF) - EXIST FAN RELOCATED

S(A)-4

EF-8 (ON ROOF)

NEW ATS

48 - #12 THWN IN 1½"C. TO FCP - TYP(2) - MOUNT TO CEILING EL. 69.00±

LS-11

RELOCATE EXISTING A/C CONDENSING UNIT AS SHOWN REFEED FROM NEW PANEL.

61.00

58.00

STUB UP FOR FUTURE

3 - #1, #4G IN EACH OF 3 - 1½"C. PLUS 1 - 1½"C. - ROUTE ALONG PIPE GALLERY CEILING TO MCC 5002 -

S(A)-3

SF-3 (ON ROOF) - EXIST FAN RELOCATED

30/2P2F N4X

S(A)-7

SUPPLY FAN SF-7

SWITCH CLUSTER S(B)

TJB-7

PANEL RSA

RS-38

RS-17

SWITCH CLUSTER S(A)

EXISTING OPERATING LEVEL

58.00

EXISTING

REWIRE (4) EXIST LT. FIXTURES WITH NEW FIXTURES FOR 3-WAY SWITCHING AT BOTH ENTRANCES. USE EXISTING CIRCUITS.

DOWN

UP

MCC 5002

NEW FILTER CONTROL PANEL (FCP)

EXISTING INFLUENT CHANNEL

S(A) -1

SF-1 (ON ROOF) - EXIST FAN RELOCATED

58.00

61.00

S(A) -2

SF-2 (ON ROOF) - EXIST FAN RELOCATED

EXISTING

FILTER 1

FILTER 2

FILTER 3

FILTER 4

FILTER 5

FILTER 6

FILTER 7

FILTER 8

TO SF-10 @ GRADE

30/2P2F N4X

## UPPER LEVEL PLAN

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

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER - UPPER LEVEL ELECTRICAL PLAN**
CLEARWATER, FLORIDA

DATE: OCT. 1988
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SHEET NO. 160 OF 166
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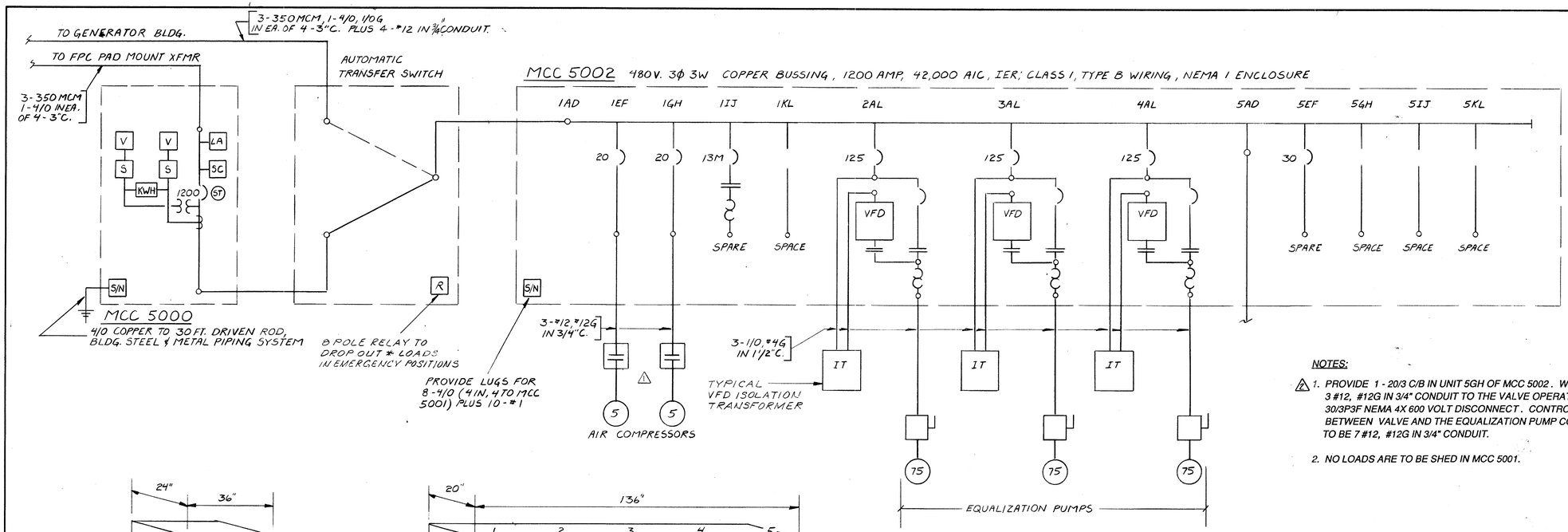
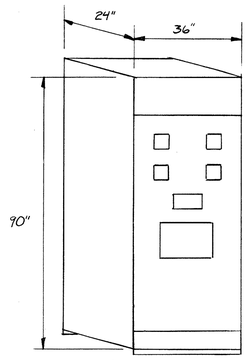
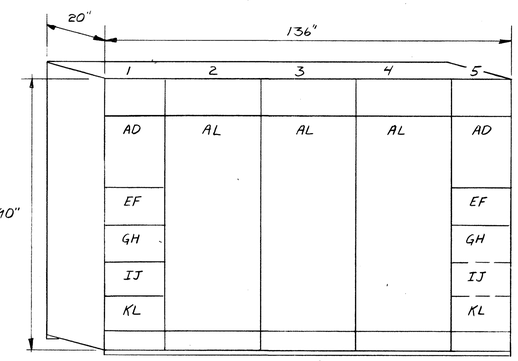



**NOTES:**

1. PROVIDE 1 - 20/3 C/B IN UNIT 5GH OF MCC 5002. WIRING TO BE 3 #12, #12G IN 3/4" CONDUIT TO THE VALVE OPERATOR. PROVIDE 30/3P3F NEMA 4X 600 VOLT DISCONNECT. CONTROL WIRING BETWEEN VALVE AND THE EQUALIZATION PUMP CONTROL PANEL TO BE 7 #12, #12G IN 3/4" CONDUIT.
2. NO LOADS ARE TO BE SHED IN MCC 5001.




MCC 5000 ELEVATION
SCALE: 1/2"=1'-0"




MCC 5002 ELEVATION
SCALE: 1/2"=1'-0"

PANEL L5

MFG. SQ. D VOLTAGE 277/480 PHASE 3 WIRE 4

CAT. NEHB AMPS. 150 SYM. A.I.C. (I.E.R.) 14,000

MOUNT Surface MAIN lugs only GND. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB | ØC |
|---|---|---|---|---|---|---|---|---|
| 1,3 | Xfmr. T5 | 2 | 100 | #3 | 1 1/4" | | | |
| 2 | Exist yard lts | 1 | 20 | -- | -- | | | |
| 4-8 | Exist lts | 1 | 20 | -- | -- | | | |
| 10,12,14 | Exh. fan-Gen.Bld | 3 | 20 | #10 | 3/4" | | | |
| 9 | Yard lights | 1 | 20 | #10 | 3/4" | | | |
| 11 | Lights | 1 | 20 | #12 | 3/4" | | | |
| 13,15 | Spare | 1 | 20 | | | | | |
| 16-24 | Space | 1 | | | | | | |

PANEL R5

MFG. SQ. D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 200 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface MAIN 175/2 c/b GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1 | Exist sump pump | 1 | 20 | -- | -- | | |
| 2-5 | Exist outlets | 1 | 20 | -- | -- | | |
| 6 | Exist seq. cntl | 1 | 20 | -- | -- | | |
| 7,8 | Spare | 1 | 20 | | | | |
| 9,11 | Exist AHU | 2 | 20 | -- | -- | | |
| 10,12 | Exist ACU | 2 | 20 | #12 | 3/4" | | |
| 13 | Exist dryer | 1 | 20 | -- | -- | | |
| 14 | Exist bubbler | 1 | 20 | -- | -- | | |
| 15 | Exist flow cntl | 1 | 25 | -- | -- | | |
| 16,18 | Panel R5A | 2 | 125 | #1 | 1 1/2" | | |
| 17,19,21 | Outlets | 1 | 20 | #12 | 3/4" | | |
| 20,22 | Sump pump | 2 | 20 | #12 | 3/4" | | |
| 23,25 | Sump pump | 2 | 20 | #12 | 3/4" | | |
| 24,26 | Sump pump | 2 | 20 | #12 | 3/4" | | |
| 27,29 | AHU | 2 | 20 | #12 | 3/4" | | |
| 31,33 | ACU | 2 | 30 | #10 | 3/4" | | |
| 28,30,32 | Lights | 1 | 20 | #12 | 3/4" | | |
| 31,33 | Panel R5B | 2 | 60 | #6 | 1" | | |
| 35,37,39 | Telemetry | 1 | 20 | #12 | 3/4" | | |
| 36 | Equal. pump cntls | 1 | 20 | #12 | 3/4" | | |
| 38 | TJB-7 | 1 | 20 | #12 | 3/4" | | |
| 39-42 | Space | 1 | | | | | |

PANEL R5A

MFG. SQ. D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 125 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface MAIN lugs only GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1,3 | SF-1 | 2 | 20 | #12 | 3/4" | | |
| 2,4 | EF-5 | 2 | 20 | #12 | 3/4" | | |
| 5,7 | SF-2 | 2 | 20 | #12 | 3/4" | | |
| 6,8 | EF-6 | 2 | 20 | #12 | 3/4" | | |
| 9,11 | SF-3 | 2 | 20 | #12 | 3/4" | | |
| 10,12 | SF-7 | 2 | 20 | #12 | 3/4" | | |
| 13,15 | EF-8 | 2 | 20 | #12 | 3/4" | | |
| 14,16 | SF-4 | 2 | 20 | #12 | 3/4" | | |
| 17,19 | EF-9 | 2 | 20 | #12 | 3/4" | | |
| 18,20 | Spare | 2 | 20 | | | | |
| 21,23 | SF-10 | 2 | 20 | #12 | 3/4" | | |
| 22,24 | Sump Pump | 2 | 20 | #12 | 3/4" | | |
| 25,26,27 | SAMPLE — PUMPS | 1 | 20 | #12 | 3/4" | | |
| 28-30 | SPACE | 1 | | | | | |

PANEL R5B

MFG. SQ. D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 100 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface MAIN 60/2 c/b GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1 | MH #11 sump pump | 1 | 20 | #12 | 3/4" | | |
| 2,4 | Radiator | 1 | 20 | #12 | 3/4" | | |
| 3,5 | NAOH PUMPS | 1 | 20 | | | | |
| 6 | Day tank | 1 | 20 | #12 | 3/4" | | |
| 7 | Lights | 1 | 20 | #12 | 3/4" | | |
| 8,10 | Block heater | 2 | 20 | #10 | 3/4" | | |
| 9 | Batt. charger | 1 | 20 | #12 | 3/4" | | |
| 12-20 | Space | 1 | | | | | |

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| R | REVISED DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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| 2 | 7-9-91 | RECORD DRAWING | DMP |
| 1 | 5-31-91 | REVISED PER ADDENDUM #2 | KEM |

DESIGNED PME DRAWN KMC CHECKED PME

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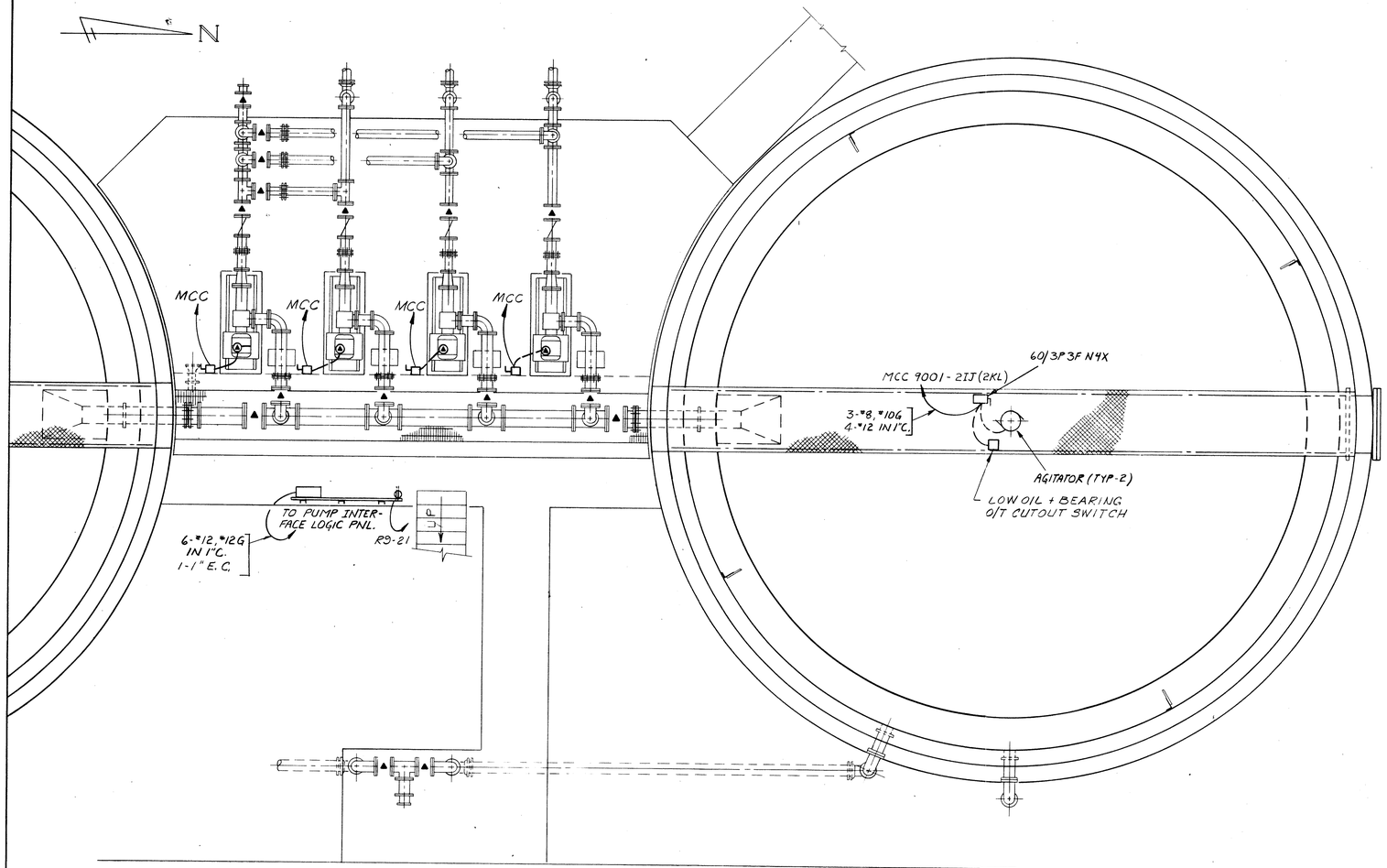
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**EFFLUENT FILTER - MCC 5002 & ONE LINE DIAGRAM**
CLEARWATER, FLORIDA

DATE: OCT. 1988 PROJ. NO. 87054-2
SCALE: AS SHOWN FILE NO. 13134
SHEET NO. 161 OF 166

92016




PLAN

PANEL L9

MFG. SQ. D VOLTAGE 277/480 PHASE 3 WIRE 4

CAT. NEHB AMPS. 100 SYM. A.I.C. (I.E.R.) 14,000

MOUNT Surface MAIN lugs only GND. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB | ØC |
|---|---|---|---|---|---|---|---|---|
| 1,3 | Yard lights | 1 | 20 | #10 | 3/4" | | | |
| 2,4 | 1st fl. lights | 1 | 20 | #12 | 3/4" | | | |
| 6,8 | 2nd. fl. lights | 1 | 20 | #12 | 3/4" | | | |
| 5,7 | Xfmr T9 | 2 | 100 | #3 | 1¼" | | | |
| 9,10 | Spare | 1 | 20 | | | | | |
| 11-24 | Space | 1 | | | | | | |

⚠ NOTE: L9-1 & L9-3 ARE PHOTO CELL OPERATED.

⚠ PANEL R9

MFG. SQ. D VOLTAGE 120/240 PHASE 1 WIRE 3

CAT. NQOD AMPS. 200 SYM. A.I.C. (I.E.R.) 10,000

MOUNT Surface MAIN 175/2 c/b GRD. BUS X

| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | ØA | ØB |
|---|---|---|---|---|---|---|---|
| 1-4 | Lights,outlets | 1 | 20 | #12 | 3/4" | | |
| 5,7 | Water heater | 2 | 30 | #10 | 3/4" | | |
| 6,8 | Elevator equip. | 1 | 20 | #12 | 3/4" | | |
| 9,11,13 | Poly blend | 1 | 20 | #10 | 3/4" | | |
| 10 | Truck scales | 1 | 20 | #12 | 3/4" | | |
| 12,14,15 | Odor control | 1 | 20 | #12 | 3/4" | | |
| 16,18 | ACU's | 2 | 20 | #10 | 3/4" | | |
| 20,22 | AHU's | 2 | 20 | #12 | 3/4" | | |
| 24,26 | ACU | 2 | 20 | #12 | 3/4" | | |
| 28 | AHU | 2 | 50 | #8 | 3/4" | | |
| 17,19 | Control panels | 1 | 20 | #12 | 3/4" | | |
| 21 | Blending tanks | 1 | 20 | #12 | 3/4" | | |
| 23,25 | Lab | 2 | 20 | #12 | 3/4" | | |
| 27, | 2nd. fl outlets | 1 | 20 | #12 | 3/4" | | |
| 29 | TJB-8 | 1 | 20 | #12 | 3/4" | | |
| 31,33 | ACU #1 | 1 | 20 | #12 | 3/4" | | |

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| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
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Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE STORAGE & BLENDING TANKS-
ELECTRICAL
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 162 OF 166
PROJ. NO. 87054-2
FILE NO. 13135

92016

N

6'-0" ABOVE HIGHEST TREAD (TYP)

W/P

8'-0" AFF

BELT FILT. PRESS VFDS (BY PRESS MFR. - VERIFY SIZE & LAYOUT

2-TORK 8001 TIME CLOCKS - BLENDING TANK TIME CONTROLS

PUMP INTERFACE LOGIC PANEL

R9-1

(4) SLUDGE PUMP DRIVE ISOLATION XFMRS.

MCC 9001

R9-17

CONVEYOR CNTRL. PNL.

AIR HANDLERS

R9-20,22

MCC 9000

60/2P 2F N4X

R9-16,18

TJB-8

L9

T9

R9-

LC9

R9-29

1'-8"

30/3P 3F N4X

MCC 9000-5AD

R9-15

CONTROL PANEL

16/3 SH. IN 3/4"C.

PH PROBE

LIQUID METERING PANEL

58.42

L9-2

R9-14

PIPING SHOWN OUT OF POSITION FOR CLARITY

ODOR CONTROL AIR COMPRESSORS

MCC 9000 -4GI

MCC 9000 -4JL

R9-12

R9-19

L9-4

NOTE: ALL FIXTURES IN TRUCK LOADING BAY - HANG AT 10'-0" AFF. USE STAINLESS STEEL 20# WIRE.

30/3P 3F N4X

AIR COMPRESSORS

MCC 9000 -3CD

MCC 9000 4AB

MCC 9000 4CD

MCC 9000 4EF

MCC 9000 -3EF

POLYMER FEED PUMPS

R9-9 #1

R9-11 #2

R9-13 #3

1-16/3 SH, 6-#12 IN 1"E.C. - TYP. 3 TO ASSOCIATED PRESS CONTROL PNL.

R9-3

L9-2

X1

R9-2

EF.

R9-5,7

W/H

GFI

EXHAUST FAN

R9-4

R9-8

R9-6

MCC 9000 -3AB

60/3P 3F N-12

R9-24,26

60/2P 2F N4X

ACU-2

8'-0" ABOVE LANDING

1" E.C. TO LAB

R9-10

SCALE POWER SUPPLY & SIGNAL TRANSMITTER

SHUNT TRIP STATION

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Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE DEWATERING BUILDING
LOWER LEVEL ELECTRICAL PLAN
CLEARWATER, FLORIDA

DATE: NOV. 1988
SCALE: 1/4" = 1'-0"
SHEET NO. 163 OF 166

PROJ. NO. 87054-2
FILE NO. 13136

92016

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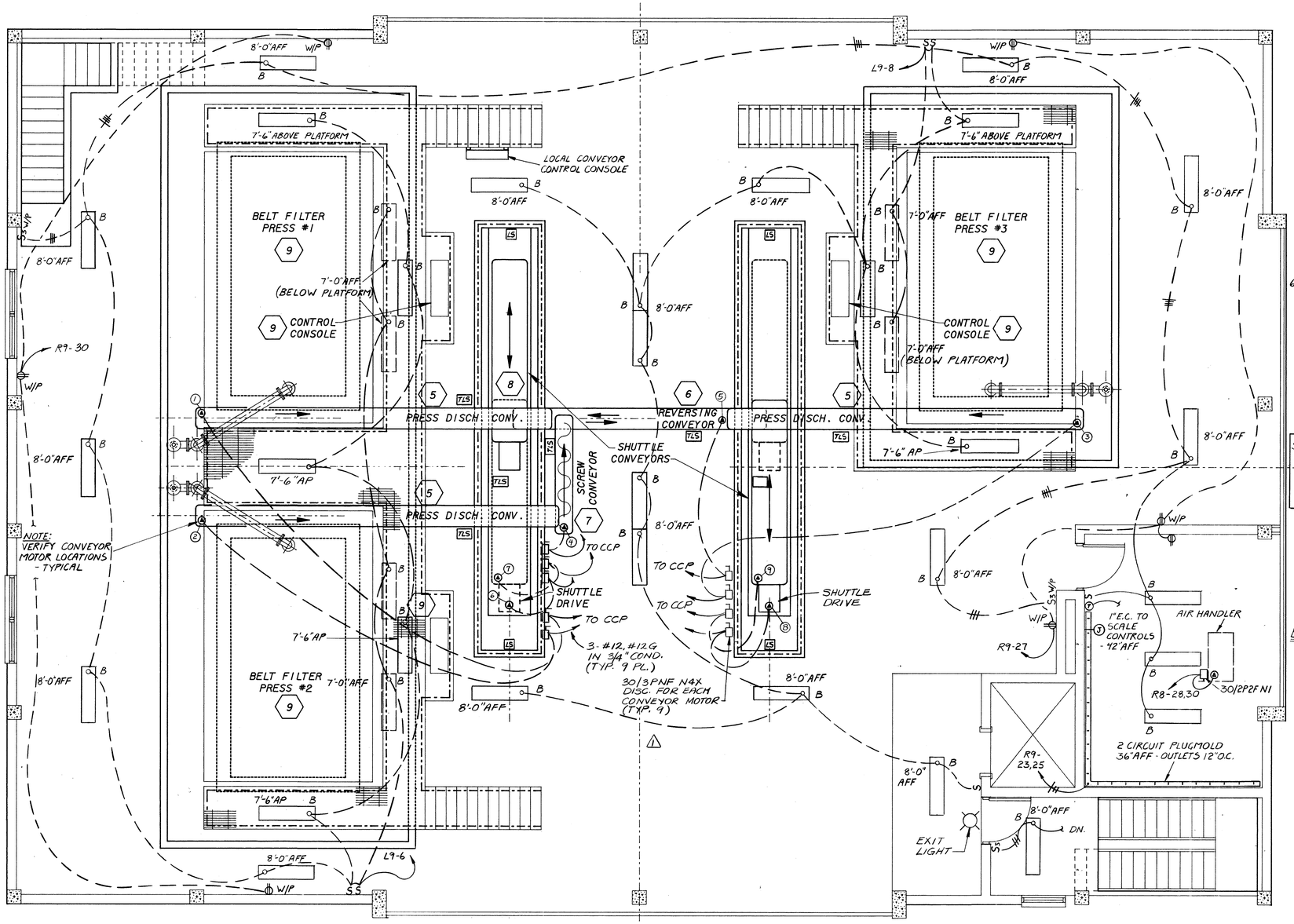
N




NOTE: ALL FIXTURES IN THIS BUILDING TO BE HUNG WITH STAINLESS STEEL 16GA. STRANDED WIRE.

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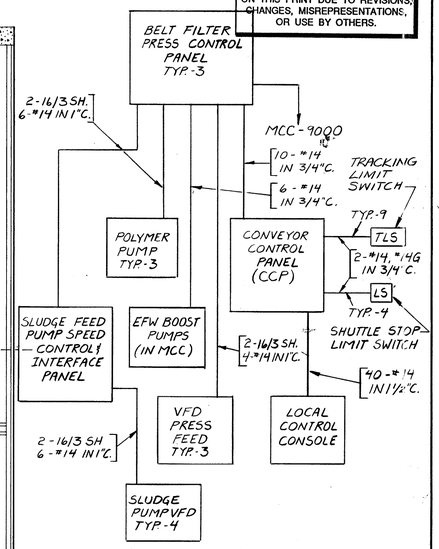


BELT PRESS / POLY FEED / PUMP / CONVEYOR CONTROL BLOCK DIAGRAM

NOT TO SCALE

**RECORD DRAWING**

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DESIGNED PME | DRAWN PME | CHECKED PME

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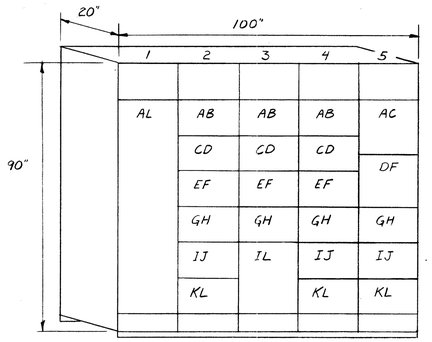
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE DEWATERING BUILDING
UPPER LEVEL ELECTRICAL PLAN
CLEARWATER, FLORIDA

DATE: NOV. 1988
SCALE: 1/4" = 1'-0"
SHEET NO. 164 OF 166

PROJ. NO. 87054-2
FILE NO. 13137

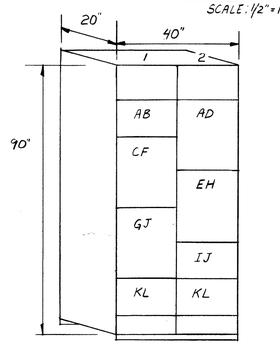
37019 8.31.88

92016




MCC 9000 ELEVATION

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




MCC 9001 ELEVATION

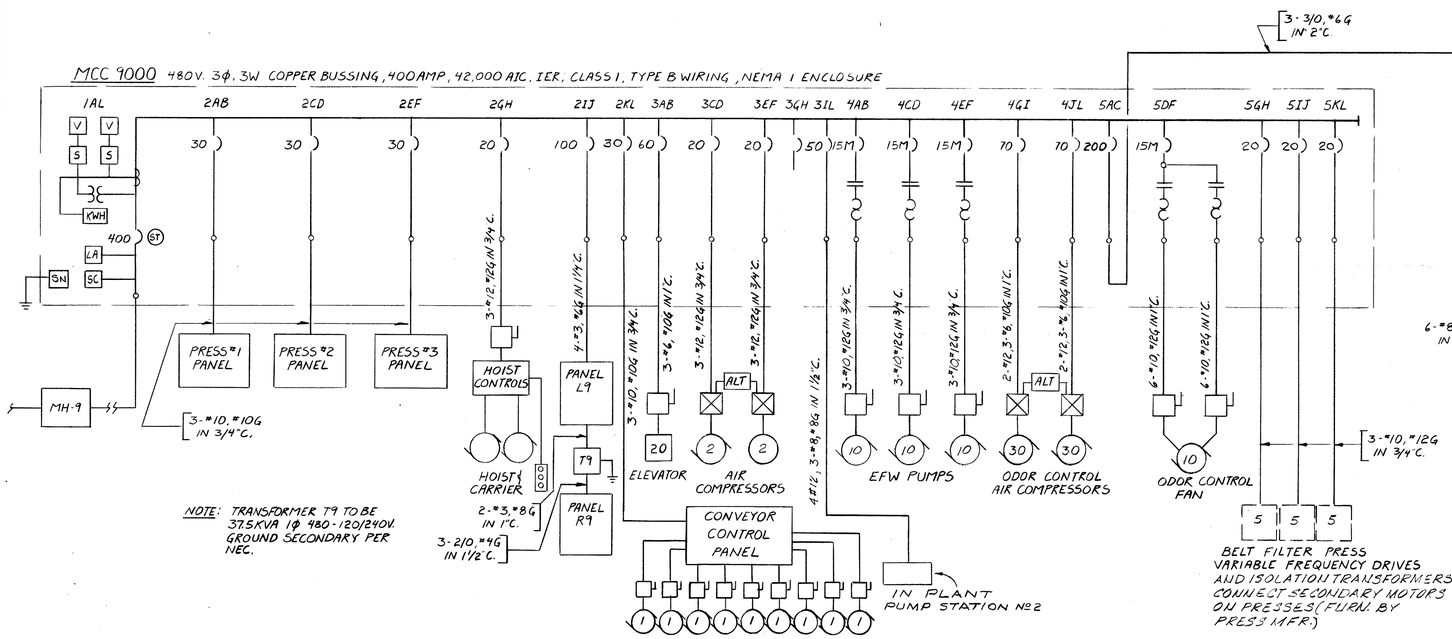
SCALE: 1/2"=1'-0"

## MCC 9000

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|
| 1AL | MAIN CIRCUIT BREAKER | T-M | ——— | 400 | AM;VM;WHM;CT/S;PT/S;LA;SC. | PROVIDE UL SE LABEL; ± 1% INSTRUMENTS; SELECTOR SWITCHES; SHUNT TRIP |
| 2AB | PRESS #1 PANEL | | 3.5 | 30 | ——— | CONTROL PANEL PROVIDED WITH PRESS. |
| 2CD | PRESS #2 PANEL | | 3.5 | 30 | ——— | ——— |
| 2EF | PRESS #3 PANEL | | 3.5 | 30 | ——— | ——— |
| 2GH | HOIST CONTROLS | | 5.5 | 20 | ——— | CONTROL PANEL PROVIDED WITH HOIST. |
| 2IJ | PANEL L9 | | (20) | 100 | ——— | PROVIDE NEUTRAL CONNECTION. |
| 2KL | CONVEYOR CONTROLS | | 8 | 30 | ——— | ——— |
| 3AB | ELEVATOR | | 20 | 60 | ——— | ——— |
| 3CD | AIR COMPRESSOR | | 2 | 20 | ——— | CONTROLS FURNISHED WITH COMPRESSOR. |
| 3EF | AIR COMPRESSOR | T-M | 2 | 20 | | " " " " |
| 3GH | | | | | | |
| 3IL | IN PLANT PUMP STATION#2 | T-M | 10 | 50 | ——— | WIRE 4 #12 ALARM CONTACTS FROM PUMP STATION TO TELEMETRY JUNCTION BOX. |
| 4AB | EFW PUMP #1 | IFVNR | 10 | 15M | HOA; FFT; X4; PR. | WIRE AUTO POSITION TO ASSOCIATED PRESS PANEL AND TO TELEMETERY JUNCTION BOX. |
| 4CD | EFW PUMP #2 | IFVNR | 10 | 15M | " " | " " " " " " |
| 4EF | EFW PUMP#3 | IFVNR | 10 | 15M | HOA; FFT; X4; PR. | WIRE AUTO POSITION TO ASSOCIATED PRESS PANEL AND TO TELEMETERY JUNCTION BOX. |
| 4GI | ODOR CONTROL AIR COMPR. | T-M | 30 | 70 | ——— | CONTROLS FURNISHED WITH COMPRESSORS. |
| 4JL | " " " | T-M | 30 | 70 | ——— | " " " " |
| 5AC | MCC 9001 FEED | T-M | 80 | 200 | ——— | ——— |
| 5DF | ODOR CONTROL FAN | 1-2S2W | 10 | 15M | S1;S2;O;R;PA;PR;X4;FFT. | WIRE REMOTE TO REMOTE STATION AND ODOR CONTROL PANEL. |
| 5GH | PRESS #1 DRIVE. | T-M | 5 | 20 | ——— | WIRE TO DRIVES, ISOLATION TRANSFORMERS AND MOTORS ON PRESSES. |
| 5IJ | PRESS #2 DRIVE | T-M | 5 | 20 | ——— | " " " " |
| 5KL | PRESS #3 DRIVE | T-M | 5 | 20 | ——— | " " " " |

## MCC 9001

| ITEM # | DESCRIPTION | DEVICE | HP (KW) | C/B TRIP | UNIT FEATURES | REMARKS |
|---|---|---|---|---|---|---|
| 1AB | MAIN LUG COMPARTMENT | ——— | ——— | ——— | ——— | ——— |
| 1CF | SLUDGE FEED PUMP | VFD | 10 | 30 | HOR; PG; PR; PA; X4; ON/OFF. | VFD PER SPEC'S. PROVIDE AND WIRE ISOLATION TRANSFORMER; MANUAL BY PASS; LOCAL SPEED CONTROL; % R.P.M INDICATOR; DIAGNOSTIC FAIL INDICATOR; REMOTE SPEED CONTROL FROM STATION ADJACENT TO PRESS CONTROL PANELS AND STATIONS AT PUMPS. |
| 1GJ | SLUDGE FEED PUMP | VFD | 10 | 30 | " | |
| 2AD | SLUDGE FEED PUMP | VFD | 10 | 30 | HOR; PG; PR; PA; X4; ON/OFF. | |
| 2EH | SLUDGE FEED PUMP | VFD | 10 | 30 | " " " | |
| 1IJ | AGITATOR | 2FVNR | 20 | 16M | HOA; PR; FFT; X4; RI. | WIRE REMOTE POSITION TO AGITATOR CONTROLS. RI TO SHUT DOWN MOTOR AND ANNUNCIATE TO TJB. AUTO POSITION TO 8001 TIME CLOCK ADJACENT TO MCC |
| 2KL | AGITATOR | 2FVNR | 20 | 16M | " " " | |

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DESIGNED P.M.E. K.M.C. G.A.B.
DRAWN
CHECKED P.M.E.
ENGINEER OF RECORD:

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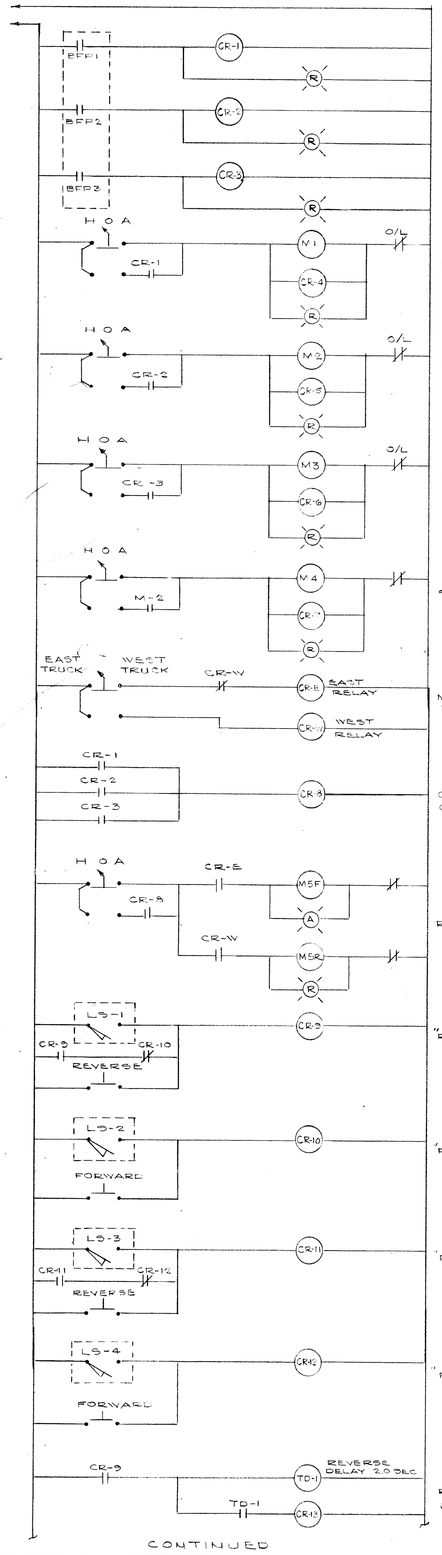
NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
SLUDGE DEWATERING BUILDING
MCC 9000, 9001 & ONE LINE DIAGRAM
CLEARWATER, FLORIDA

DATE: OCT. 1988
SCALE: AS SHOWN
SHEET NO. 165 OF 166
PROJ. NO. 87054-2
FILE NO. 13138

92016




PRESS #1

PRESS #2

PRESS #3

PRESS #1 DISCHARGE CONVEYOR

PRESS #2 DISCHARGE CONVEYOR

PRESS #3 DISCHARGE CONVEYOR

SCREW CONVEYOR

MASTER SELECTOR'S FILL EAST OR WEST TRUCK

CONVEYOR MASTER CONTROL RELAY

REVERSING CONVEYOR

"REVERSE" THE EAST SHUTTLE

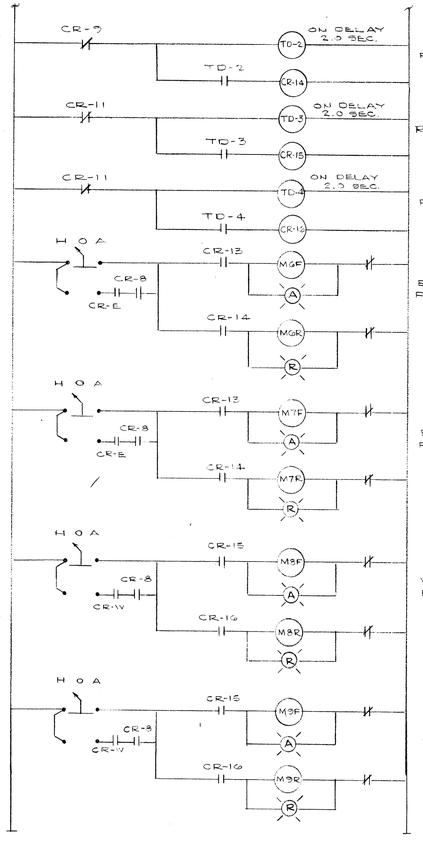
"FORWARD" THE EAST SHUTTLE

"REVERSE" THE WEST SHUTTLE

"FORWARD" THE WEST SHUTTLE

REVERSE DELAY TIMER (EAST SHUTTLE)

CONTINUATION




FORWARD DELAY TIMER (EAST SHUTTLE)

REVERSE DELAY TIMER (WEST SHUTTLE)

FORWARD DELAY TIMER (WEST SHUTTLE)

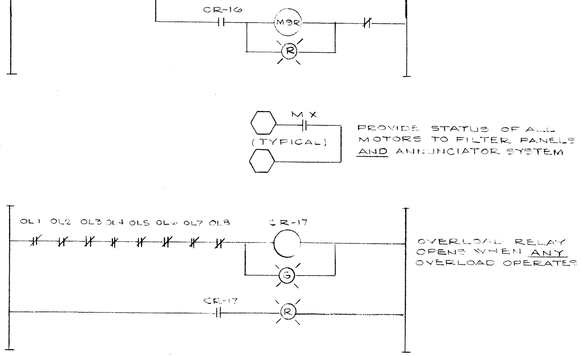
EAST SHUTTLE DRIVE FORWARD AND REVERSE

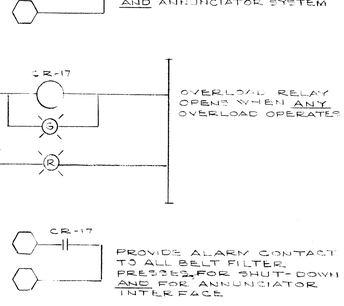
EAST SHUTTLE BELT FORWARD AND REVERSE

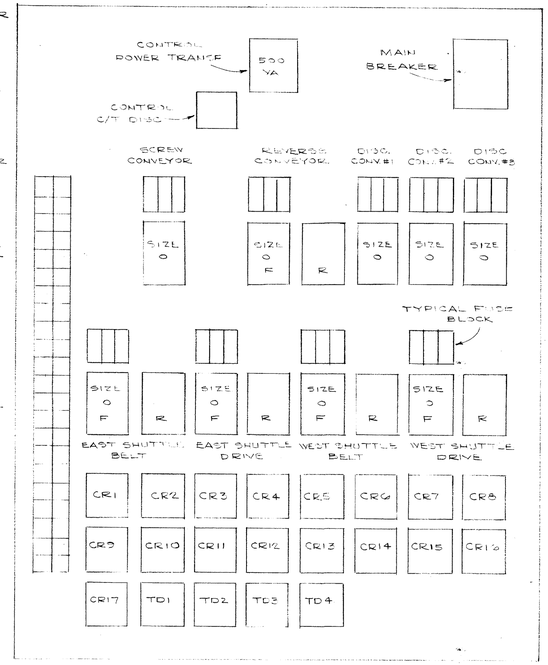
WEST SHUTTLE DRIVE FORWARD AND REVERSE

WEST SHUTTLE BELT FORWARD AND REVERSE

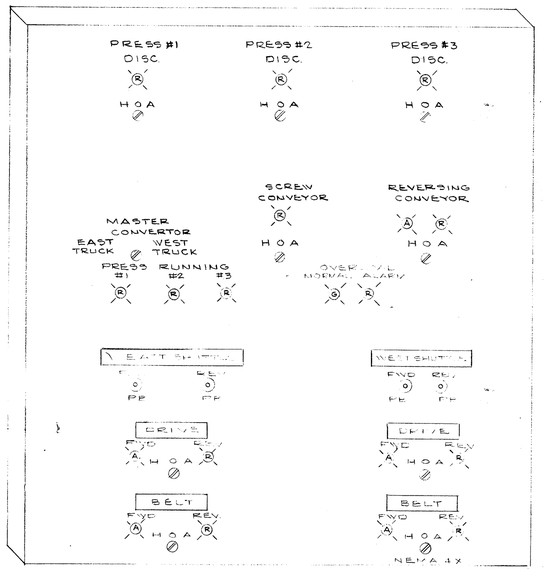
MX (TYPICAL) — PROVIDE STATUS OF ALL MOTORS TO FILTER PANELS AND ANNUNCIATOR SYSTEM




CONVEYOR CONTROL PANEL INTERIOR
N.T.S.




CONVEYOR CONTROL CONSOLE
N.T.S.

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*NOTES:*

1. *ALL MOTOR STARTERS TO BE INCLUDED IN CONVEYOR CONTROL PANEL IN THE ELECTRICAL EQUIPMENT ROOM, FIRST FLOOR. MOTOR STARTERS TO BE ALLEN BRADLEY BULLETIN 509 WITH EXTRA N.C. ALARM CONTACT. CONTROL RELAYS TO BE ALLEN BRADLEY TYPE 700N; TIMERS TO BE ALLEN BRADLEY TYPE 700P. CONTROL PANEL TO BE NEMA 12 SINGLE DOOR ENCLOSURE. PANEL TO BEAR UL LABEL.*
2. *CONVEYOR CONTROL CONSOLE TO BE NEMA 4X LOCATED AS SHOWN AND INCLUDE ALLEN BRADLEY TYPE 800H NEMA 4X HEAVY DUTY CONTROL DEVICES AS SHOWN. PROVIDE NAMEPLATES AND LABEL ALL CONDUCTORS. CONSOLE TO BEAR UL LABEL.*
3. *COORDINATE WIRING OF CONVEYORS WITH CONVEYOR SUPPLIER AND BELT FILTER PRESS SUPPLIER.*
4. *PROVIDE SCHEMATIC DIAGRAM AND WIRING DIAGRAM OF BOTH CONVEYOR CONTROL PANEL AND CONSOLE.*
5. ⚠ *PROVIDE NEW CIRCUITS IN PANEL R9, #31 AND #33. EACH CIRCUIT TO BE 20 AMP, 120 VOLTS, EACH TO FEED A COILING DOOR OPERATOR. WIRING TO OPERATOR TO BE 2 #12, #12G, IN 3/4" CONDUIT. WIRE LIMIT SWITCH INTERLOCK TO PREVENT OPERATION WHEN DOOR IS LOCKED. WIRE 4 #12 #12G IN 3/4" CONDUIT TO REMOTE "OPEN-CLOSE-STOP" OPERATOR. LOCATE OPERATOR PER BWA FIELD DIRECTIVE. PROVIDE LOCAL MANUAL MOTOR STARTER IN NEMA 4X ENCLOSURE, SQUARE D 2510 OR EQUIVALENT.*

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| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| ⚠ 1 | 7-10-91 | RECORD DRAWING | GLB |

DESIGNED PME | DRAWN GAB | CHECKED PME

ENGINEER OF RECORD:

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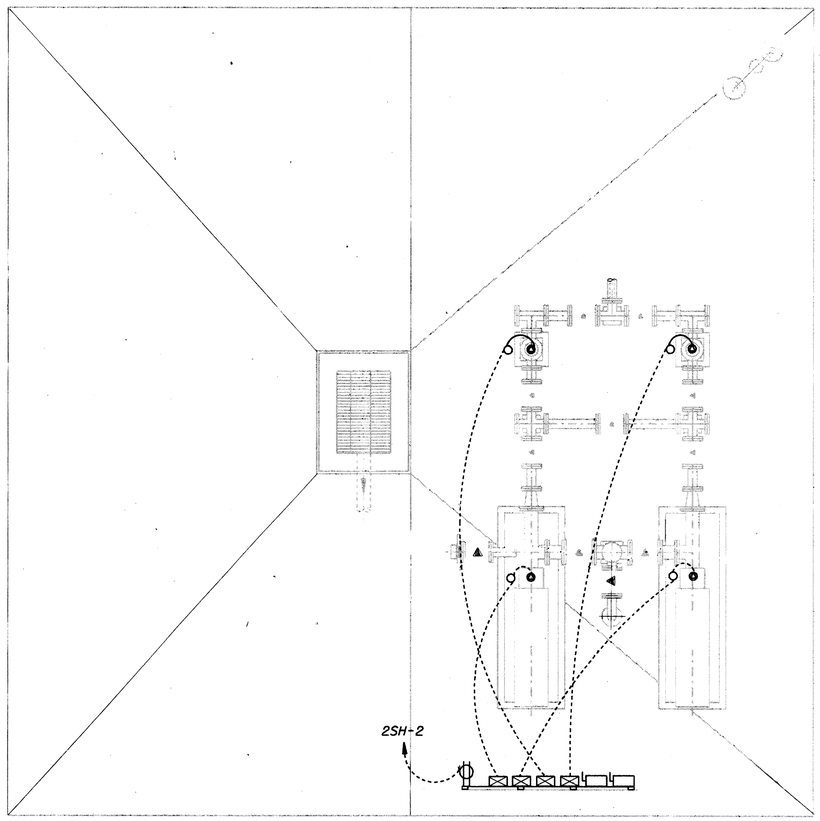
**Briley, Wild & Associates, Inc.**
CONSULTING ENGINEERS AND PLANNERS
*Ormond Beach - Clearwater - Bradenton, Florida*

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
**SLUDGE DEWATERING BUILDING · CONVEYOR CONTROLS**
CLEARWATER, FLORIDA

DATE: OCT. 1988 | PROJ. NO. 87054-2
SCALE: NONE | FILE NO. 13139
SHEET NO. 166 OF 166

92016

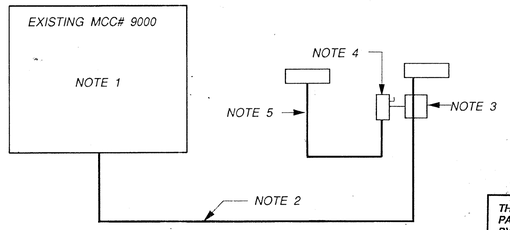



## PLAN

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

**NOTES:**

1. REPLACE EXISTING 50/3 C/B FEEDING IN-PLANT PUMP STATION #2 WITH NEW 100/3 C/B.
2. PULL OUT EXISTING 3#8, 3#12, #12G FROM EXISTING 1-1/2"C. REPULL 3#3, 3#12, #6G TO NOTE 3 LOCATION.
3. PROVIDE 12"x12"x6" NEMA 4X SPLICE BOX. SPLICE EXISTING #8 FEEDING PUMP STATION, AND FEED TO NOTE 4 THIS BOX.
4. PROVIDE 60/3P 3F N4X DISCONNECT FUSE AT 60 AMPS.
5. 3#6, #8G IN 1"C. TO SEPTAGE HANDLING SYSTEM.




## SINGLE LINE DIAGRAM

N.T.S.

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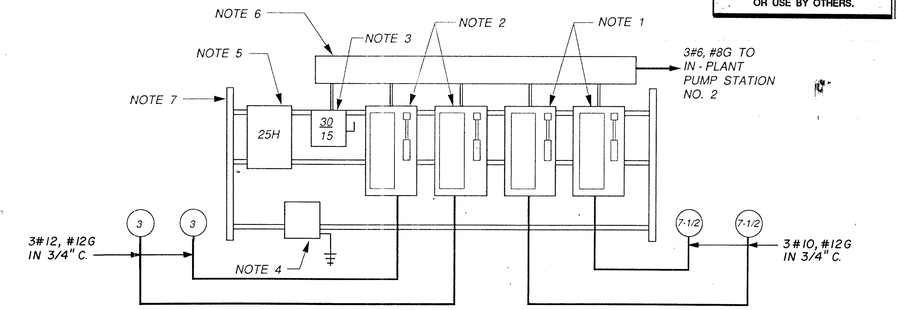


## EQUIPMENT RACK

N.T.S.

**EQUIPMENT RACK NOTES:**

1. ~~NEMA SIZE 2 COMBINATION CIRCUIT BREAKER MOTOR STARTER IN NEMA 4X ENCLOSURE. PROVIDE 15M BREAKER MAGNETIC TRIP RANGE. INCLUDE FUSED (PRIMARY & SECONDARY) CONTROL POWER TRANSFORMER, 120V. SECONDARY, ON-OFF SELECTOR SWITCH AND RED RUN PILOT LIGHT. FEED MOTOR AS SHOWN.~~
2. ~~NEMA SIZE 1 COMBINATION CIRCUIT BREAKER MOTOR STARTER IN NEMA 4X ENCLOSURE. PROVIDE 12M BREAKER MAGNETIC TRIP RANGE. INCLUDE FUSED (PRIMARY & SECONDARY) CONTROL POWER TRANSFORMER, 120V. SECONDARY, ON-OFF SELECTOR SWITCH AND RED RUN PILOT LIGHT. FEED MOTOR AS SHOWN.~~
3. 30 AMP 2 POLE 2 FUSE 600V. NEMA 4X DISCONNECT. FUSE AT 15 AMPS.
4. 5 KVA 1 $\phi$ TRANSFORMER 480-120/240 VOLTS. PAINT ENCLOSURE WITH EPOXY RESIN BASE PAINT. GROUND SECONDARY PER NEC.
5. PANEL 2SH 6 CIRCUIT SINGLE PHASE NEMA 3R LOAD CENTER, SQ. D TYPE Q08-16 RB. PAINT WITH EPOXY RESIN BASE PAINT. PROVIDE 30/2 MAIN C/B, 2-20/1 BRANCH C/B'S. FEED LOADS SHOWN.
6. 6"x6"x60" NON METALLIC WIRING GUTTER. PROVIDE APPROVED COMPRESSION TYPE GUTTER TAPS AND INSULATING CAPS TO FEED ITEMS 1, 2, AND 3 ABOVE.
7. NON METALLIC STRUT ASSEMBLY. RACK AND MOUNT EQUIPMENT SHOWN. PROVIDE PROPER BRACING AND SUPPORT.

**RECORD DRAWING**

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| 1 | 3/4/92 | INCORPORATED E.O. 023 INTO SET AS RECORD DRAWING | RAP |

ENGINEER:

ACCEPTED:

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NORTHEAST ADVANCED POLLUTION CONTROL FACILITY

**SEPTAGE HANDLING STRUCTURE-ELECTRICAL**

CLEARWATER, FLORIDA

| | | | |
|---|---|---|---|
| DESIGNED | PME | PROJ. NO. 87054-2 | |
| DRAWN | DMP | DATE: MAY 1991 | SHEET NO. 166-A OF 166 |
| CHECKED | RAE | SCALE: AS SHOWN | FILE NO. 13139-A |

| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

BRILEY, WILD AND ASSOCIATES

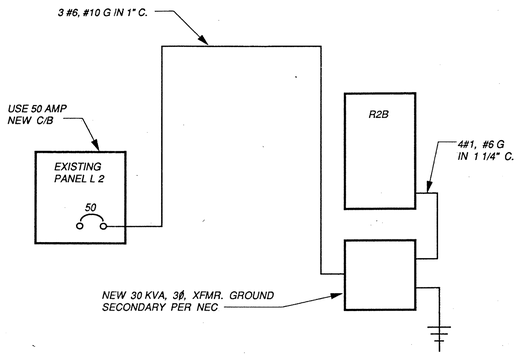
92016

PRF=GS1: [4D,154]184008, DATE=17-MAY-91, TIME=08:54:36

## ⚠ PANEL R2B

MFG. SQUARE D  VOLTAGE 120/208  PHASE 3  WIRE 4
CAT. NQOD  AMPS. 125  SYM. A.I.C. (I.E.R.) 10,000
MOUNT SURFACE  MAIN 125/3 C/B  GND. BUS X

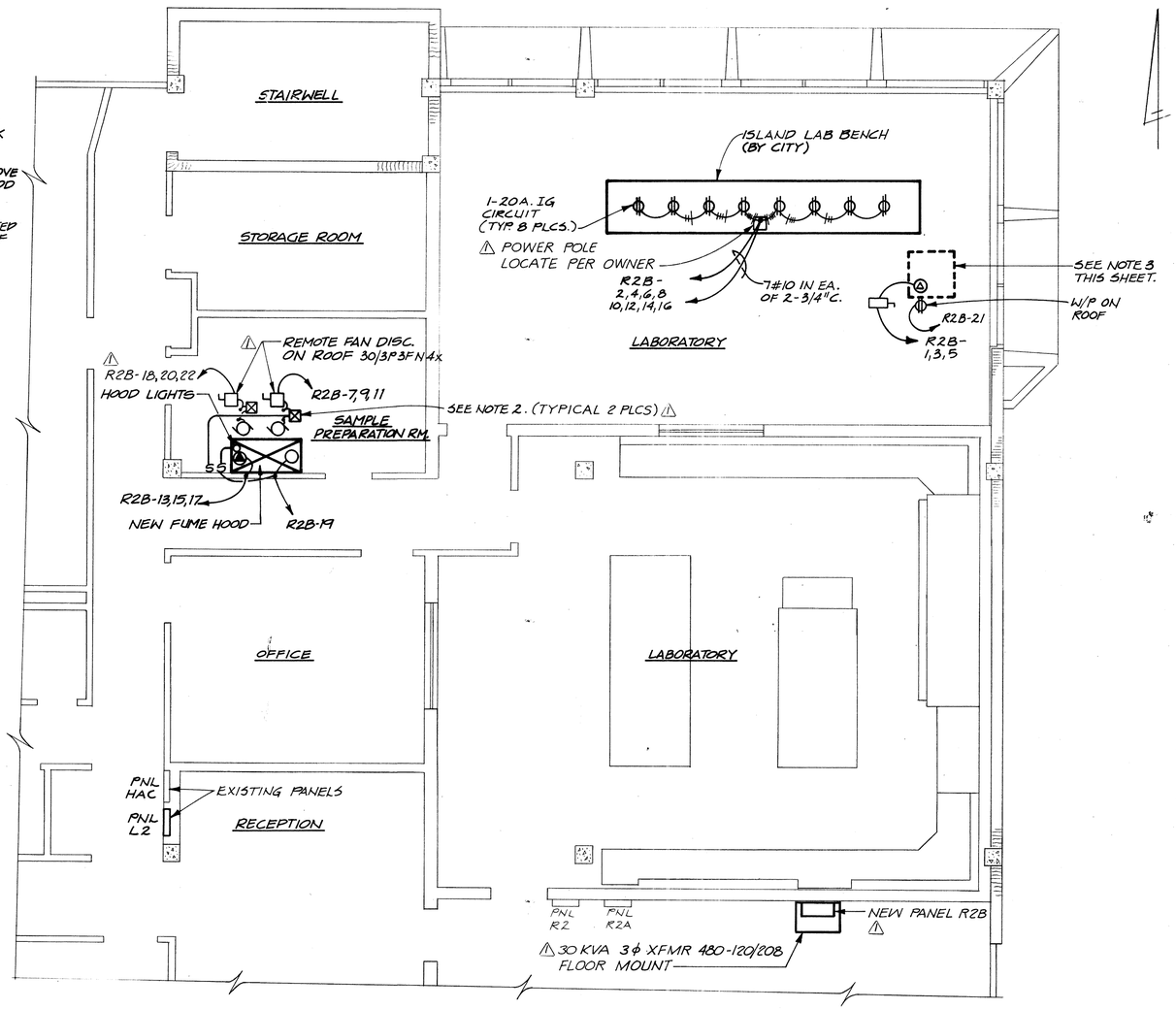
| CIRCUIT | DESCRIPTION | POLE | AMPS | WIRE | CONDUIT | PH A | PH B | PH C |
|---|---|---|---|---|---|---|---|---|
| 1, 3, 5 | NEW RTU | 3 | 40 | #8 | 3/4" | | | |
| 2, 4, 6, 8 | LAB ISLAND | 1 | 20 | #12 | 3/4" | | | |
| 7, 9, 11 | HOOD REMOTE FAN | 3 | 20 | #12 | 3/4" | | | |
| 10, 12, 14, 16 | LAB ISLAND | 1 | 20 | #12 | 3/4" | | | |
| 13, 15, 17 | NEW FUME HOOD | 3 | 30 | #10 | 3/4" | | | |
| 18, 20, 22 | HOOD REMOTE FAN | 3 | 20 | #12 | 3/4" | | | |
| 19 | FILTER DRYER | 1 | 20 | #12 | 3/4" | | | |
| 23 - 30 | SPACE | 1 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |




## ⚠ ONE LINE DIAGRAM
SCALE : NONE

### NOTES:

1. PROVIDE 8-HOSPITAL GRADE IG OUTLETS W/ STAINLESS STEEL PLATES IN MILLWORK CIRCUIT SEQUENTIALLY.
2. PROVIDE SIZE "0", 3ϕ MOTOR STARTER ABOVE CEILING & 120 V. CONTROL SWITCH AT HOOD TO OPERATE ROOF MT'D. EXHAUST FAN.
3. PACKAGE ROOFTOP A/C UNIT BEING RELOCATED FROM DIFFERENT SITE. PROVIDE 60/3P3F N4x 240V. DISCONNECT FUSE PER MFR. NAME PLATE. RUN CONDUIT THRU CURB.




## CONTROL BUILDING
## PARTIAL SECOND FLOOR PLAN
SCALE: 1/4"=1'-0"

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**RECORD DRAWING**

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| STATUS | ACTION DATE |
|---|---|
| RD | 4-21-92 |

| | |
|---|---|
| P | PRELIMINARY |
| E | FOR ESTIMATING ONLY |
| B | FOR BIDDING ONLY |
| 0 | RELEASED FOR CONSTRUCTION |
| R | REVISED - DESTROY PREVIOUS PRINTS |
| H | PORTION(S) BEING HELD |
| A | APPROVAL |
| C | CHECK PRINT |
| RD | RECORD DRAWING |

| REV. NO. | DATE | REVISION | BY |
|---|---|---|---|
| ⚠ | 9-4-91 | INCORPORATED E.O. #19 INTO SET AS RECORD DRAWING | GLB |
| ⚠ | 2-11-91 | ADD FAN, POWER POLE. REVISE ONE LINE, PANEL | SGD |

DESIGNED PME  DRAWN BVB  CHECKED PME

ENGINEER OF RECORD:

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Ormond Beach - Clearwater - Bradenton, Florida

NORTHEAST ADVANCED POLLUTION CONTROL FACILITY
EXISTING CONTROL BUILDING - LAB ELECTRICAL
CLEARWATER, FLORIDA

DATE: DEC. 1990
SCALE: AS SHOWN
SHEET NO 166B OF 166

PROJ. NO. 87054-2
FILE NO. 13139B

92016