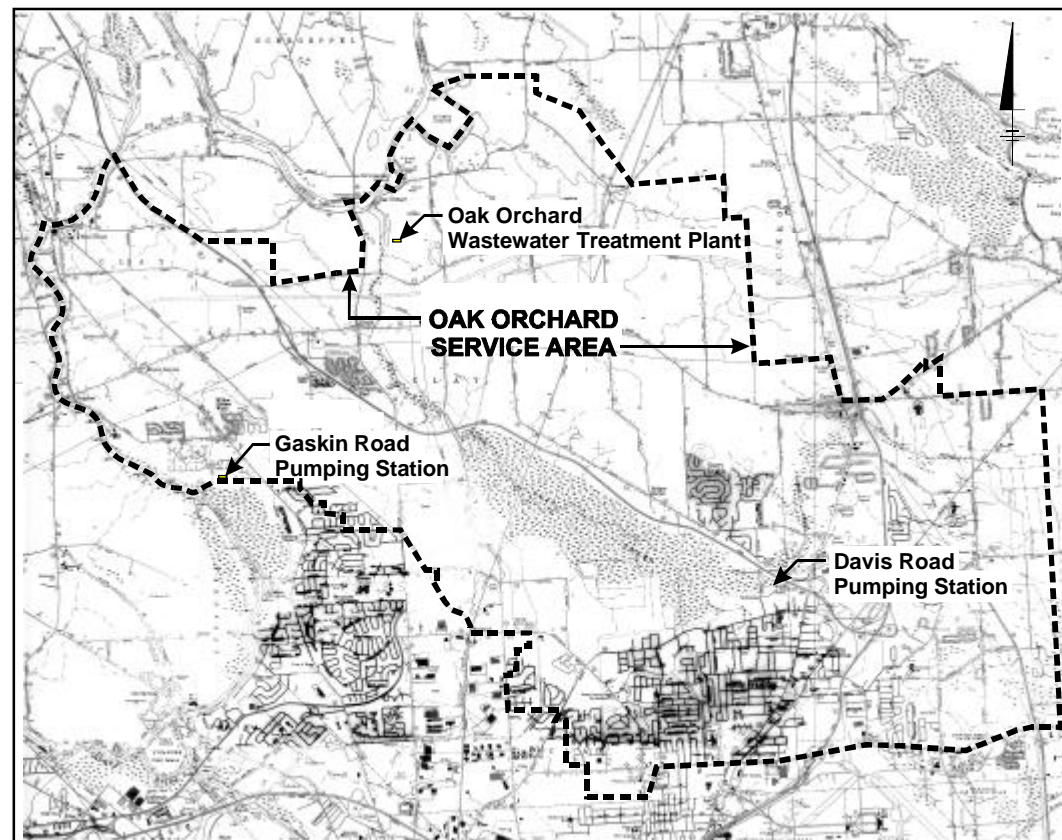


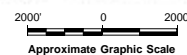
RECORD DRAWINGS

OAK ORCHARD SERVICE AREA PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

COUNTY OF ONONDAGA
DEPARTMENT OF DRAINAGE AND SANITATION
SYRACUSE, NEW YORK



REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., SYRACUSE EAST AND WEST, NEW YORK.



LOCATION MAP

APPROVED BY ONONDAGA COUNTY
DEPARTMENT OF DRAINAGE AND SANITATION

JOHN M. KARANIK, COMMISSIONER

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED
BLASLAND, BOUCK & LEE, INC.

DATE _____ BY _____

PROJECT NO. 587354

CONTRACT NO. 1A GENERAL
CONTRACT NO. 1B ELECTRICAL
CONTRACT NO. 1C HVAC
CONTRACT NO. 1D PLUMBING

FEBRUARY 1999
REVISED MARCH 1999

BBL
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INDEX TO DRAWINGS

TITLE SHEET

GENERAL

- G-1 DAVIS ROAD PUMP STATION - SITE PLAN AND PROFILE
- G-2 GASKIN ROAD PUMP STATION - SITE PLAN
- G-3 OAK ORCHARD WWTP - SITE PLAN
- G-4 MISCELLANEOUS DETAILS

ARCHITECTURAL

- A-1 DAVIS ROAD PUMP STATION - INFLUENT BUILDING ADDITION PLANS AND SECTIONS
- A-2 DAVIS ROAD PUMP STATION - INFLUENT BUILDING ADDITION SECTION AND ELEVATION
- A-3 DAVIS ROAD PUMP STATION - INFLUENT BUILDING ADDITION MISCELLANEOUS DETAILS
- A-4 DAVIS ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PLAN, SECTIONS AND DETAILS
- A-5 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PLANS AND SECTIONS
- A-6 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING ELEVATION AND SECTION
- A-7 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING MISCELLANEOUS DETAILS
- A-8 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING ROOF PLAN, SECTIONS AND DETAILS

STRUCTURAL

- S-1 DAVIS ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PLAN AND SECTION
- S-2 DAVIS ROAD PUMP STATION - INFLUENT BUILDING PLANS AND SECTIONS
- S-3 DAVIS ROAD PUMP STATION - INFLUENT BUILDING ADDITION FOUNDATION PLANS, SECTIONS, ELEVATIONS AND DETAILS
- S-4 DAVIS ROAD PUMP STATION - INFLUENT BUILDING ADDITION PLAN, SECTIONS AND DETAILS
- S-5 DAVIS ROAD AND GASKIN ROAD PUMP STATIONS - TRANSFER STATION PLANS
- S-6 DAVIS ROAD AND GASKIN ROAD PUMP STATIONS - TRANSFER STATION SECTIONS
- S-7 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING FOUNDATION PLAN AND SECTIONS
- S-8 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PLANS AND SECTIONS
- S-9 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING SECTIONS AND DETAIL
- S-10 OAK ORCHARD WWTP - TRANSFER STATION PLAN, SECTIONS AND DETAIL
- S-11 OAK ORCHARD WWTP - TRANSFER STATION SECTIONS AND DETAIL
- S-12 OAK ORCHARD WWTP - PRIMARY CLARIFIER PLAN, SECTIONS, ELEVATION, AND DETAILS
- S-13 MISCELLANEOUS DETAILS

MECHANICAL

- M-1 DAVIS ROAD PUMP STATION - INFLUENT BUILDING ADDITION PLANS
- M-2 DAVIS ROAD PUMP STATION - INFLUENT BUILDING ADDITION SECTIONS AND DETAIL
- M-3 DAVIS ROAD PUMP STATION - DIFFUSED AIR SYSTEM PLANS, SECTIONS AND DETAIL
- M-4 DAVIS ROAD PUMP STATION - SCUM HOLDING TANK PLANS
- M-5 DAVIS ROAD PUMP STATION - SCUM HOLDING TANK SECTION AND DETAILS
- M-6 DAVIS ROAD PUMP STATION - CHEMICAL STORAGE BUILDING DEMOLITION PLAN, SECTION AND ELEVATION
- M-7 DAVIS ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PLAN, SECTIONS AND ELEVATION
- M-8 DAVIS ROAD PUMP STATION - CHEMICAL STORAGE BUILDING CHEMICAL FEED SCHEMATIC
- M-9 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PLAN AND SECTIONS
- M-10 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING CHEMICAL FEED SCHEMATIC
- M-11 GASKIN ROAD PUMP STATION - EXISTING PUMPING STATION PLAN AND SECTION
- M-12 OAK ORCHARD WWTP - ODOR CONTROL CHEMICAL FEED SYSTEM PLAN AND SECTIONS
- M-13 OAK ORCHARD WWTP - LIQUIDALUM CHEMICAL STORAGE PLANS
- M-14 OAK ORCHARD WWTP - LIQUIDALUM CHEMICAL STORAGE SECTIONS
- M-15 OAK ORCHARD WWTP - PLANT WASTE PUMP STATION PLANS, SECTIONS AND DETAIL
- M-16 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING ODOR COVER PLAN
- M-17 OAK ORCHARD WWTP - PRIMARY FLOW UNITS ODOR COVER PLAN
- M-18 OAK ORCHARD WWTP - ODOR COVER SECTIONS AND DETAILS
- M-19 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING SECOND FLOOR ODOR CONTROL SYSTEM PLAN AND SECTION
- M-20 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING SECOND FLOOR ODOR CONTROL SYSTEM PLAN AND SECTION
- M-21 MISCELLANEOUS DETAILS AND SECTIONS
- M-22 DETAILS

INSTRUMENTATION

- I-1 OAK ORCHARD WWTP, DAVIS ROAD AND GASKIN ROAD PUMP STATIONS - CONTROL AND REMOTE I/O PANELS
- I-2 DAVIS ROAD PUMP STATION - PROCESS AND INSTRUMENTATION DIAGRAM
- I-3 DAVIS ROAD PUMP STATION - REMOTE I/O PAID AND SEWAGE PUMPS LEVEL CONTROL WIRING DIAGRAM
- I-4 OAK ORCHARD WWTP - PROCESS AND INSTRUMENTATION DIAGRAM
- I-5 GASKIN ROAD PUMP STATION - PROCESS AND INSTRUMENTATION DIAGRAM
- I-6 PLC LADDER LOGIC

NOTE:

WORK REQUIRED BY CONTRACT NUMBERS 1A, 1B, 1C, AND 1D, MAY BE SHOWN OR REFERENCED ON DRAWINGS OTHER THAN THEIR APPLICABLE DISCIPLINE. CONTRACTORS ARE DIRECTED TO REVIEW ALL DRAWINGS FOR WORK REQUIRED BY THEIR SPECIFIC CONTRACT.

ELECTRICAL

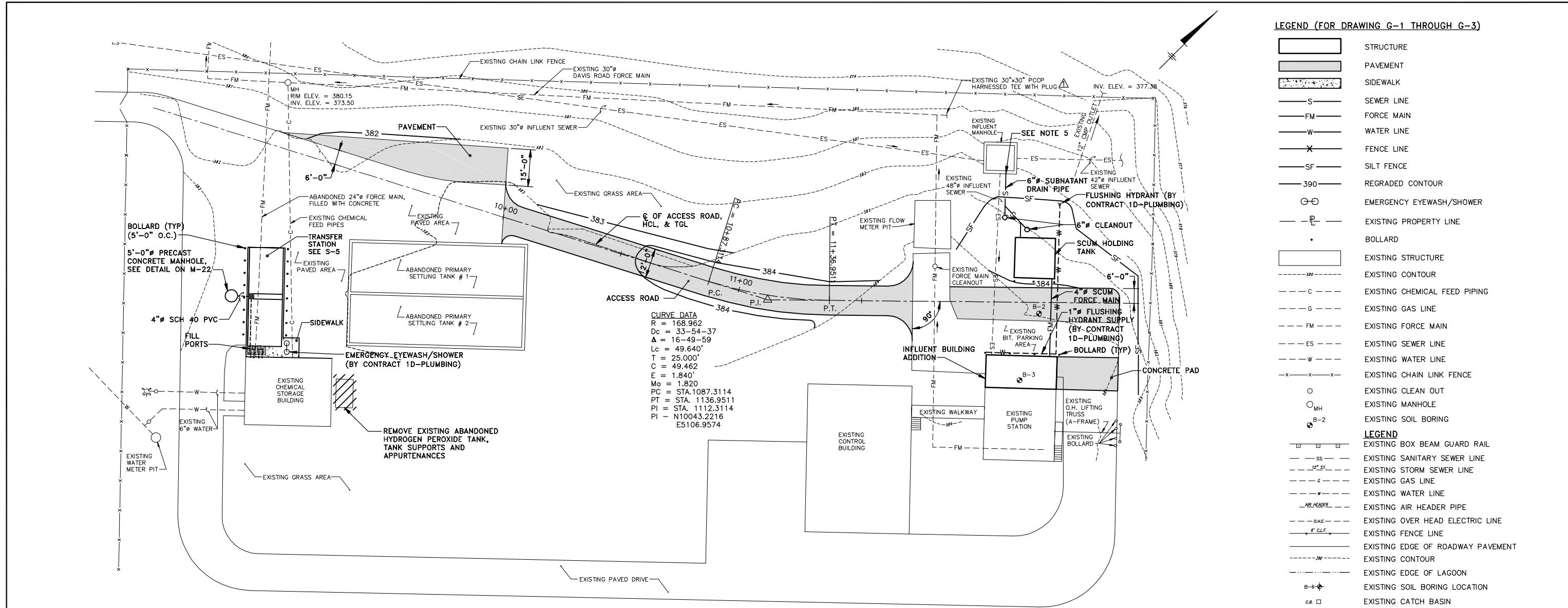
- E-1 DAVIS ROAD PUMP STATION - ELECTRICAL SITE PLAN
- E-2 DAVIS ROAD PUMP STATION - CONTROL AND INFLUENT BUILDINGS ELECTRICAL POWER PLANS
- E-3 DAVIS ROAD PUMP STATION - CHEMICAL STORAGE BUILDING POWER AND INSTRUMENTATION PLANS
- E-4 DAVIS ROAD PUMP STATION - CONTROL BUILDING MOTOR CONTROL CENTER NO. 2
- E-5 DAVIS ROAD PUMP STATION - INFLUENT BUILDING MCC 2 ONE-LINE DIAGRAMS
- E-6 DAVIS ROAD PUMP STATION - INFLUENT BUILDING LIGHTING PLANS
- E-7 DAVIS ROAD PUMP STATION - INFLUENT, CHEMICAL STORAGE AND CONTROL BUILDINGS LIGHTNING PROTECTION PLANS
- E-8 DAVIS ROAD PUMP STATION - ELEMENTARY DIAGRAMS AND CONDUIT SCHEDULES
- E-9 GASKIN ROAD PUMP STATION - ELECTRICAL SITE PLAN
- E-10 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PLANS AND SECTION
- E-11 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING ONE-LINE AND ELEMENTARY DIAGRAMS
- E-12 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PANEL AND CONDUIT SCHEDULES
- E-13 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING FIRST FLOOR ELECTRICAL POWER PLAN
- E-14 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING LIGHTNING PROTECTION
- E-15 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING SECOND FLOOR POWER PLAN
- E-16 OAK ORCHARD WWTP - ODOR CONTROL SYSTEM POWER, LIGHTING AND INSTRUMENTATION PLANS
- E-17 OAK ORCHARD WWTP - ODOR CONTROL & LIQUIDALUM SYSTEMS ELEMENTARY DIAGRAM
- E-18 OAK ORCHARD WWTP - ODOR CONTROL SYSTEM PANEL AND CONDUIT SCHEDULES
- E-19 OAK ORCHARD WWTP - SLUDGE PROCESS BUILDING SECOND FLOOR ROOF POWER PLANS
- E-20 OAK ORCHARD WWTP - SLUDGE PROCESS BUILDING MCC MODIFICATIONS AND ONE-LINE DIAGRAM
- E-21 OAK ORCHARD WWTP - CHEMICAL STORAGE AREA POWER AND INSTRUMENTATION PLANS
- E-22 OAK ORCHARD WWTP - CHEMICAL STORAGE AREA CONTROL PANEL MODIFICATIONS
- E-23 OAK ORCHARD WWTP - OXYGEN GENERATION BUILDING GALLERY POWER PLAN
- E-24 OAK ORCHARD WWTP - PLANT WASTE PUMP STATION SECTION AND DETAILS
- E-25 OAK ORCHARD WWTP - PLANT WASTE PUMP STATION ONE-LINE AND ELEMENTARY DIAGRAMS

HEATING AND VENTILATING

- H-1 DAVIS ROAD PUMP STATION - CONTROL BUILDING HEATING AND VENTILATING PLAN
- H-2 DAVIS ROAD PUMP STATION - INFLUENT BUILDING HEATING AND VENTILATING PLAN AND SECTION
- H-3 DAVIS ROAD PUMP STATION - CHEMICAL STORAGE BUILDING HEATING AND VENTILATING PLAN
- H-4 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING HEATING AND VENTILATING PLANS
- H-5 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING FIRST FLOOR PLAN AND SECTION
- H-6 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING SECOND FLOOR HEATING AND VENTILATING PLAN
- H-7 OAK ORCHARD WWTP - SLUDGE PROCESS BUILDING HEATING AND VENTILATING PLAN
- H-8 OAK ORCHARD WWTP - OXYGEN GENERATION BUILDING HEAT RECOVERY PLAN AND SCHEMATIC
- H-9 OAK ORCHARD WWTP - AIR COMPRESSOR ROOM/PRIMARY CROSS GALLERY ODOR CONTROL SYSTEM PLAN
- H-10 OAK ORCHARD WWTP - SCREEN AND GRIT BUILDING FIRST FLOOR ODOR CONTROL SYSTEM PLAN
- H-11 OAK ORCHARD WWTP - PRIMARY FLOW UNITS GALLERY ODOR CONTROL SYSTEM PLAN
- H-12 OAK ORCHARD WWTP - ODOR CONTROL SYSTEM SECTIONS
- H-13 GASKIN ROAD PUMP STATION - SCHEDULES, DETAILS AND SECTIONS
- H-14 OAK ORCHARD WWTP AND DAVIS ROAD PUMP STATION - SCHEDULES
- H-15 OAK ORCHARD WWTP - DETAILS
- H-16 DETAILS

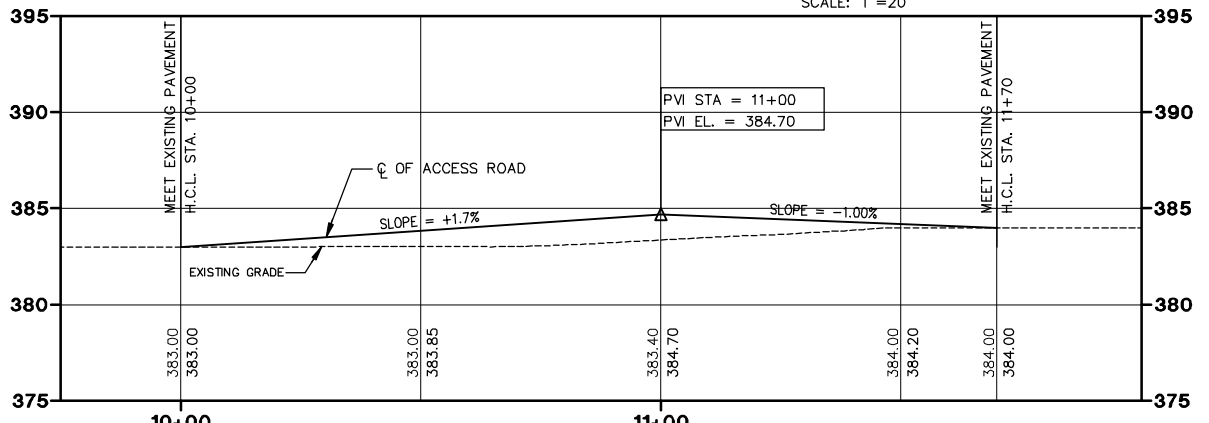
PLUMBING

- P-1 GASKIN ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PLAN, RISER DIAGRAM AND DETAIL
- P-2 DAVIS ROAD PUMP STATION - CHEMICAL STORAGE BUILDING PLAN AND ELEVATION



SITE PLAN

SCALE: 1"=20'



NOTES:

- CORE DRILL EXISTING STRUCTURE TO INSTALL 6" SUBSTANT DRAIN PIPE @ INVERT EL. 370.0'. SEE TYPICAL EXISTING CONCRETE WALL/FLOOR PIPE PENETRATION DETAIL ON G-4.
- REFER TO M-9 FOR TEMPORARY BYPASS PUMP STATION DETAILS.

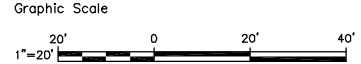
GENERAL NOTES: (FOR DRAWING G-1 THROUGH G-3)

- BASE MAPS BY BRYANT ASSOCIATES, P.C. ENGINEERS-SURVEYORS, JULY 30, 1998 @ A SCALE OF 1"=20'.
- EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE PLANS, RECORDS AND SURVEYS. THEIR LOCATION MUST THEREFORE BE CONSIDERED APPROXIMATE AND NO GUARANTEE IS MADE TO THE HORIZONTAL OR VERTICAL LOCATION OF SUCH FACILITIES, STRUCTURES AND UTILITIES. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY UNKNOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL FACILITIES, STRUCTURES AND UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK.
- CONTRACTOR IS RESPONSIBLE FOR PROPER OFF-SITE DISPOSAL OF ALL REMOVED ITEMS.
- ALL WORK BY CONTRACT 1A-GENERAL UNLESS NOTED OTHERWISE.
- DIRECTLY ABOVE ALL UNDERGROUND PIPING CONTRACTOR SHALL INSTALL SETON STYLE NO. 6PIP-PA, OR EQUAL, METALLIC DETECTION TAPE 6" BELOW GRADE.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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00365020/RECORD/DAVIS/00365G01.DWG

(RECORD DRAWING: MADE FROM DRAWING NO. G-1, TRACER NO. 00365020/DAVIS/00365G01.DWG, DATE 3/4/99)



No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr. --- JCP ---
Designed by --- WFF/JAH ---
Drawn by --- AK ---
Checked by --- JCP ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

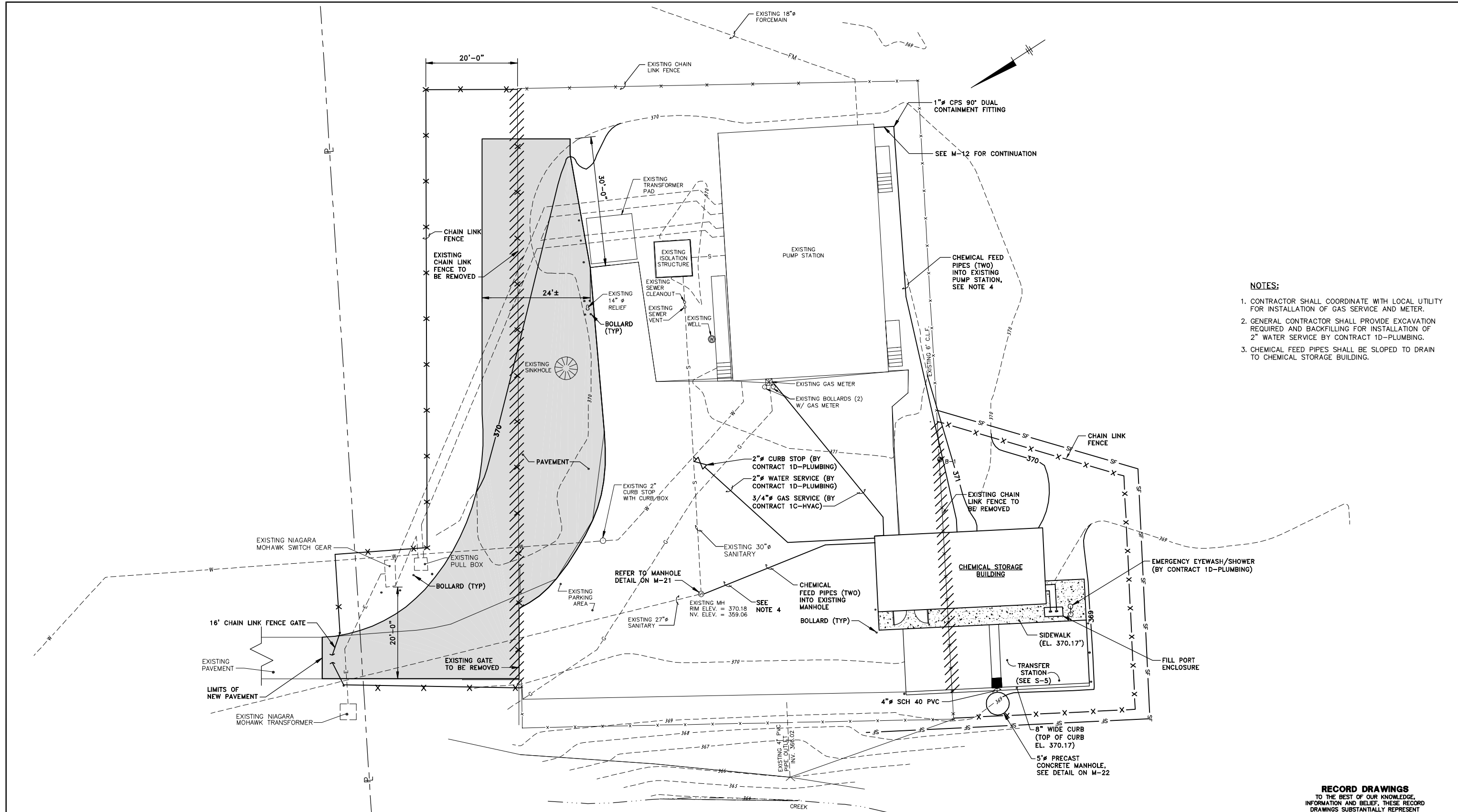


COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

SITE PLAN AND PROFILE

GENERAL

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120



- NOTES:**
1. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR INSTALLATION OF GAS SERVICE AND METER.
 2. GENERAL CONTRACTOR SHALL PROVIDE EXCAVATION REQUIRED AND BACKFILLING FOR INSTALLATION OF 2" WATER SERVICE BY CONTRACT 1D-PLUMBING.
 3. CHEMICAL FEED PIPES SHALL BE SLOPED TO DRAIN TO CHEMICAL STORAGE BUILDING.

SITE PLAN

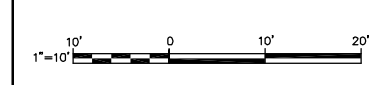
SCALE: 1"=10'

(RECORD DRAWING: MADE FROM DRAWING NO. G-2, TRACER NO. 00365020/GASKIN/0365G02.DWG, DATED 1/29/99)

DATE _____ BY _____

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 THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.



No.	Date	Revisions	Init

Project Mgr. --- JCP ---
 Designed by --- WFF ---
 Drawn by --- DCC ---
 Checked by --- JCP ---
 Prof. Eng. --- DONALD GEISSER ---
 PE License --- N.Y. 57879 ---

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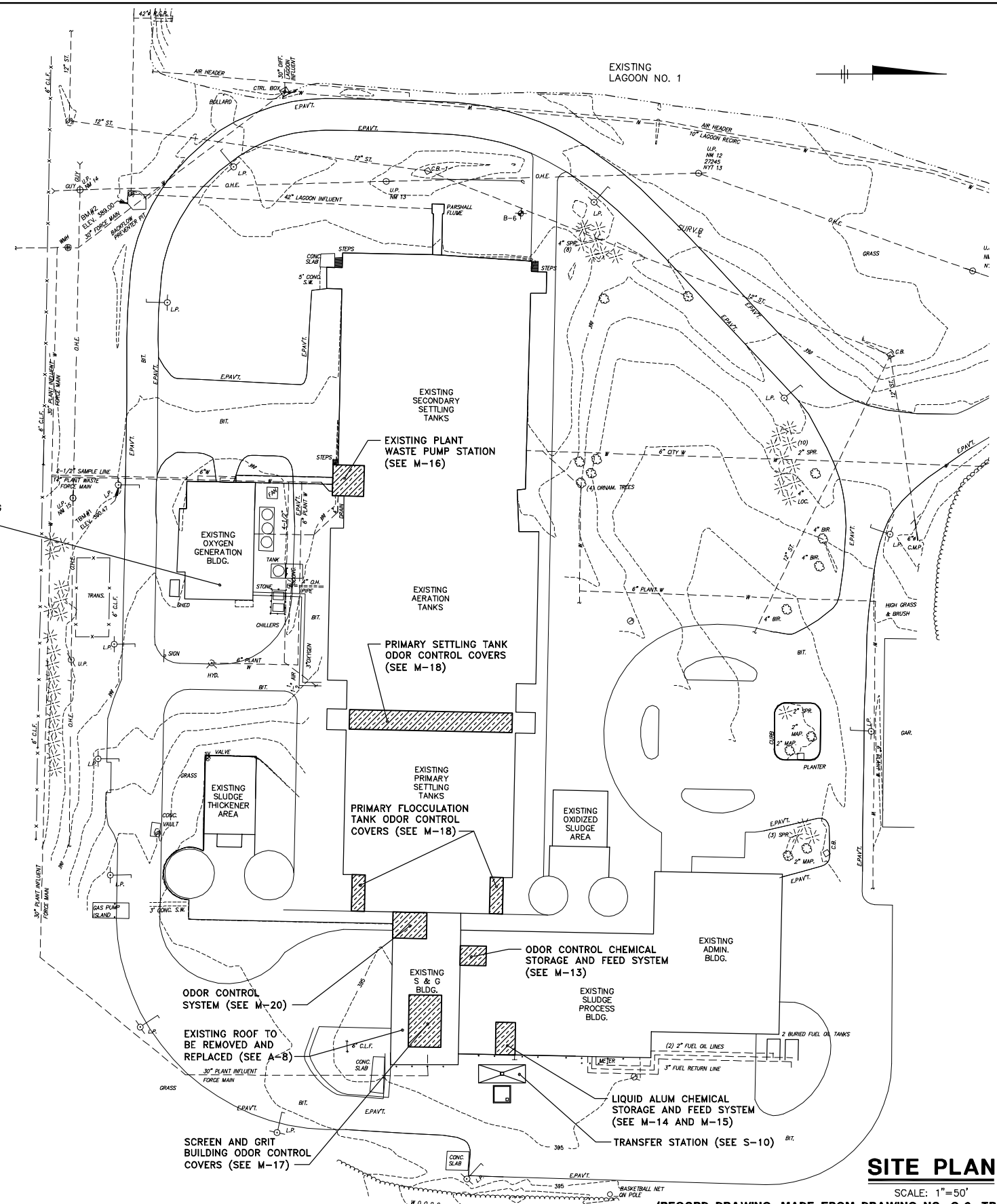
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

SITE PLAN

GENERAL

File Number
 003.65.006
 Date
 AUGUST 2002
 Blasland, Bouck & Lee, Inc.
 Corporate Headquarters
 6723 Towpath Road
 Syracuse, NY 13214
 315-446-9120

G-2



SITE PLAN

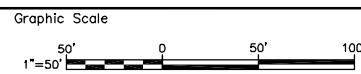
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(RECORD DRAWING: MADE FROM DRAWING NO. G-3, TRACER NO. 00365020/OAK/0365G03.DWG, DATED 1/28/99) DATE _____ BY _____

NOTES
 1. TOPOGRAPHIC SURVEY PERFORMED BY BRYANT ASSOCIATES, P.C. ON JULY 23, 1998. SURVEY WAS REVISED BY BRYANT ASSOCIATES, P.C. ON OCTOBER 26, 1998.

RECORD DRAWINGS
 TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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 8/13/02 SYR-54 AK KLN D.J.P.
 00365020/RECORD/OAK/00365G03.DWG



No.	Date	Revisions	Init

Project Mgr. JCP
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 Drawn by AK
 Checked by JCP
 Prof. Eng. DONALD GEISSER
 PE License N.Y. 57879

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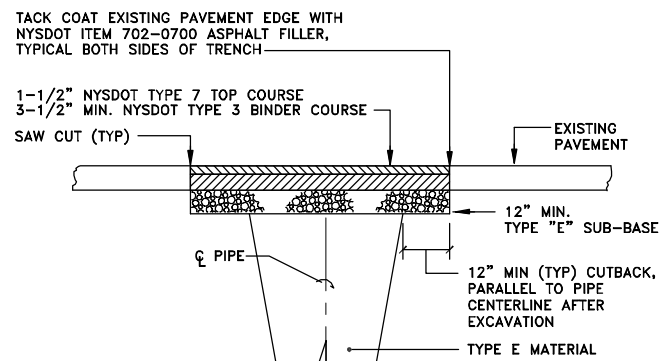
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION

SITE PLAN

GENERAL

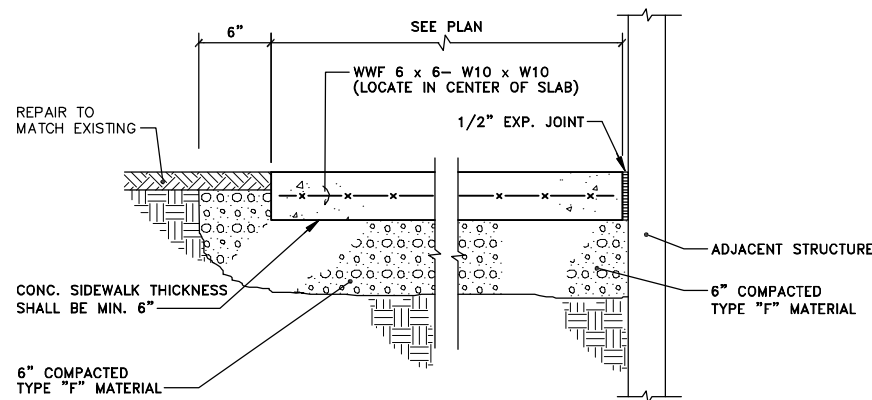
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 Date AUGUST 2002
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 Syracuse, NY 13214
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G-3



**BITUMINOUS PAVEMENT
REPLACEMENT DETAIL**

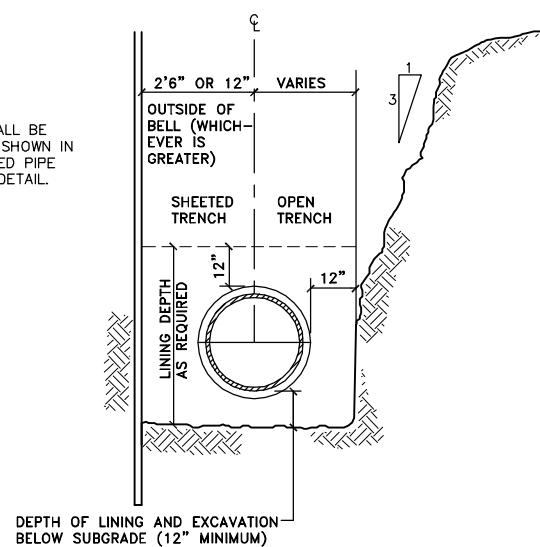
NOT TO SCALE



CONCRETE SIDEWALK DETAIL

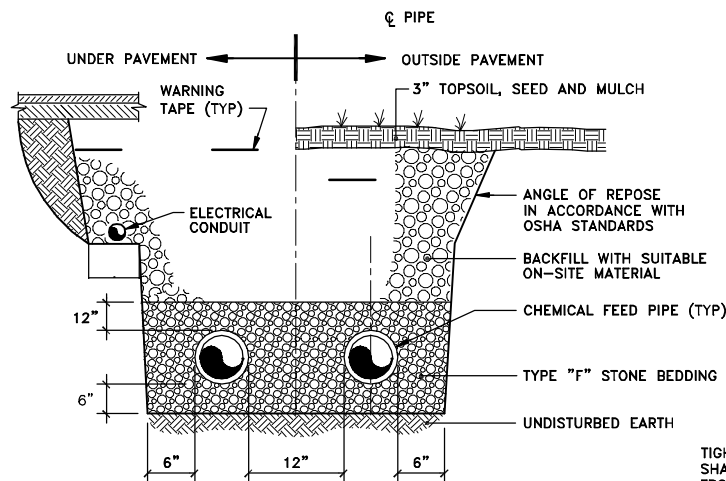
NOT TO SCALE

NOTE:
PIPE BEDDING SHALL BE SIMILAR TO THAT SHOWN IN THE CHEMICAL FEED PIPE TYPICAL TRENCH DETAIL.



TRENCH DETAIL

NOT TO SCALE

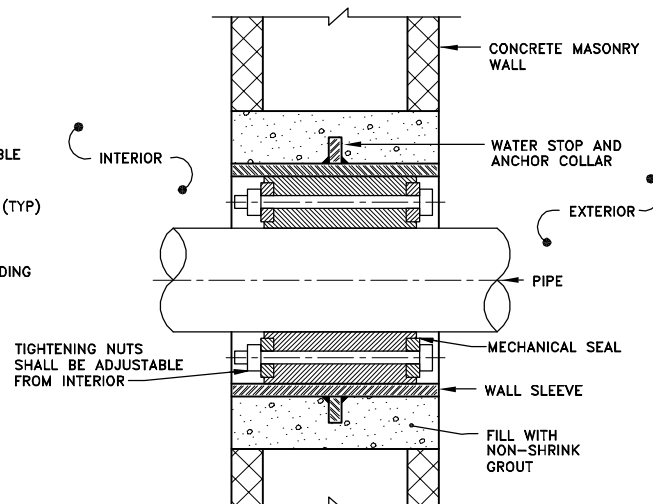


NOTES:

- REFER TO BITUMINOUS PAVEMENT REPLACEMENT DETAIL ON THIS SHEET FOR PAVEMENT RESTORATION.
- MINIMUM COVER FOR ELECTRICAL CONDUIT SHALL BE 2'-0".
- MINIMUM COVER FOR CHEMICAL FEED PIPE SHALL BE 4'-0" (TO TOP OF CONTAINMENT PIPE).

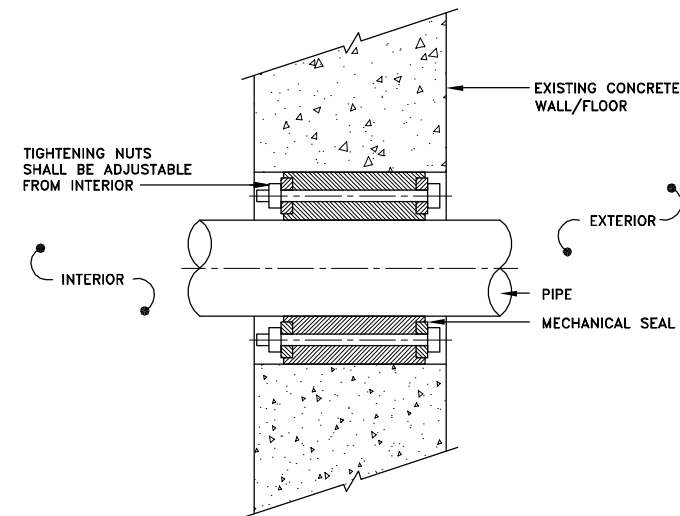
**CHEMICAL FEED PIPE
TYPICAL TRENCH DETAIL**

NOT TO SCALE



**TYPICAL MASONRY BLOCK WALL
PIPE PENETRATION DETAIL**

NOT TO SCALE

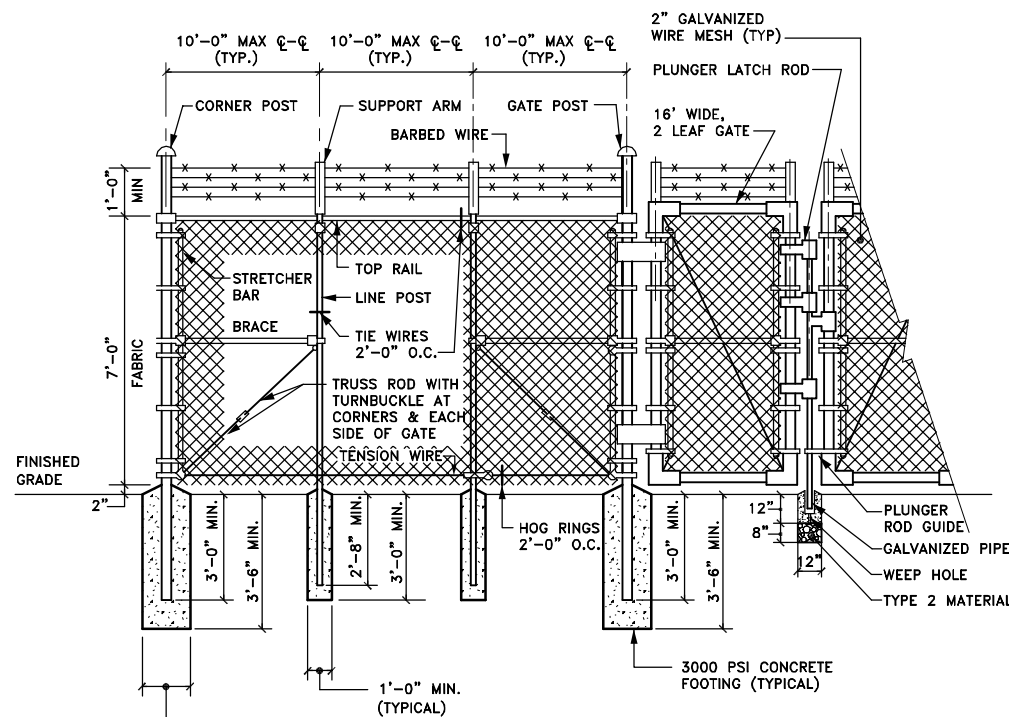


NOTE:

- HOLE FOR PIPE PENETRATION SHALL BE CORE DRILLED.

**TYPICAL EXISTING CONCRETE WALL/
FLOOR PIPE PENETRATION DETAIL**

NOT TO SCALE

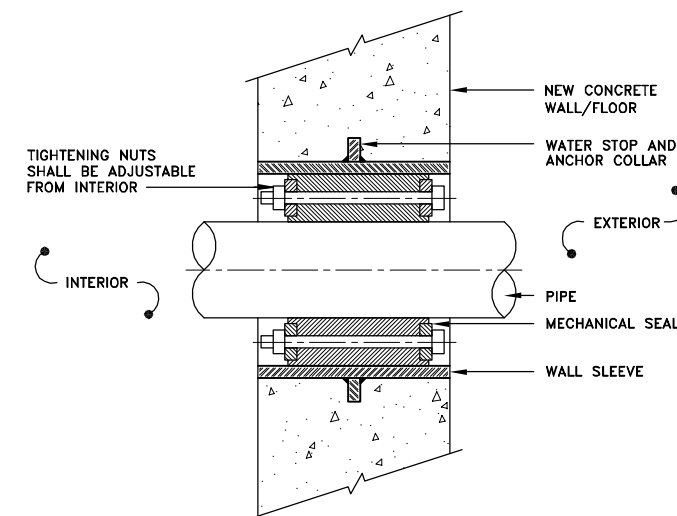


NOTE:

- CONCRETE SHALL BE TAMPED & RODDED IN PLACE.

TYPICAL CHAIN LINK FENCE DETAIL

NOT TO SCALE



**TYPICAL NEW CONCRETE WALL/
FLOOR PIPE PENETRATION DETAIL**

NOT TO SCALE

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
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THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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00365020/RECORD/OAK/00365G18.DWG

No.	Date	Revisions	Init

Project Mgr. --- JCP ---
Designed by --- WFF ---
Drawn by --- AK ---
Checked by --- JCP ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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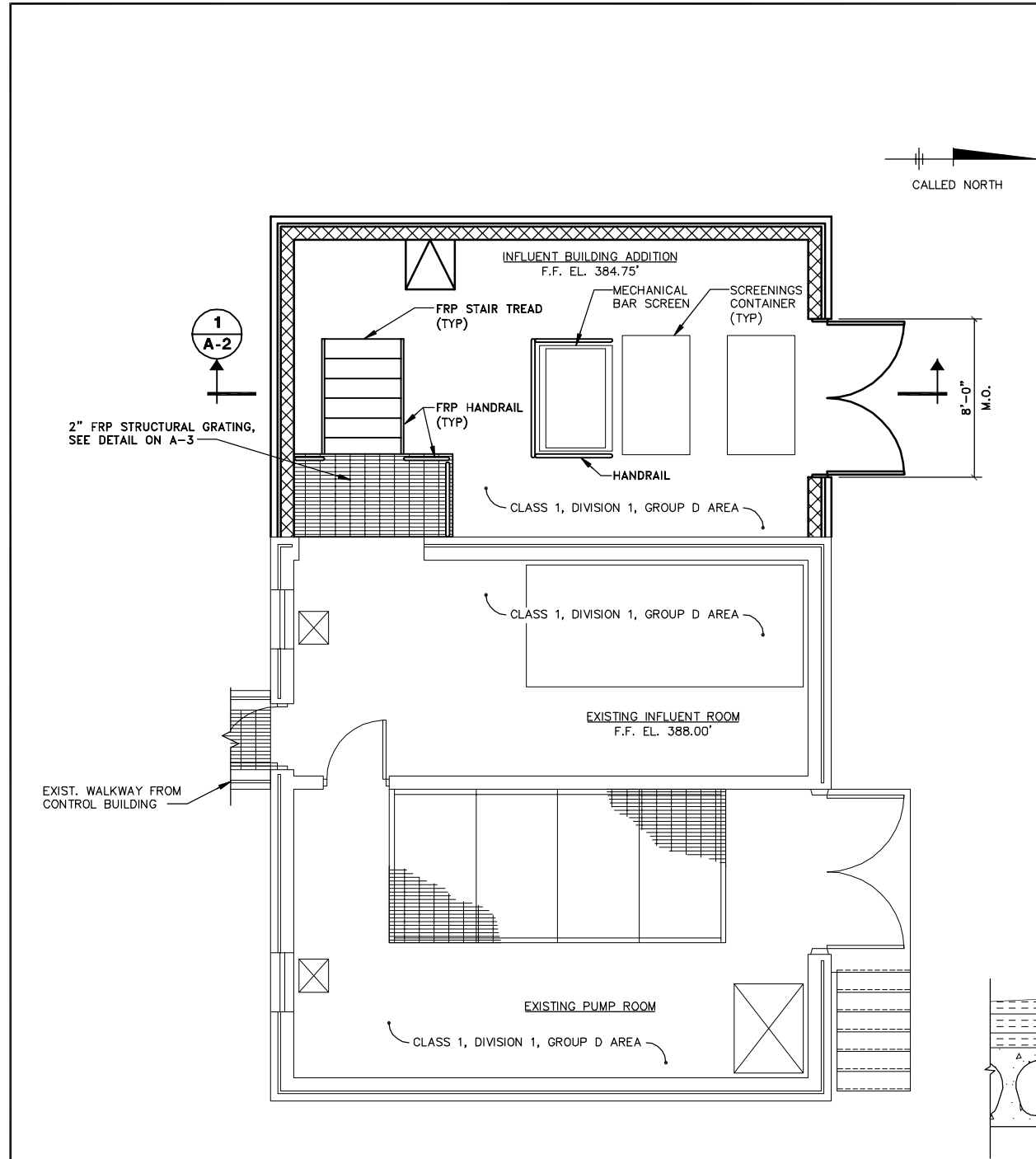
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

MISCELLANEOUS DETAILS

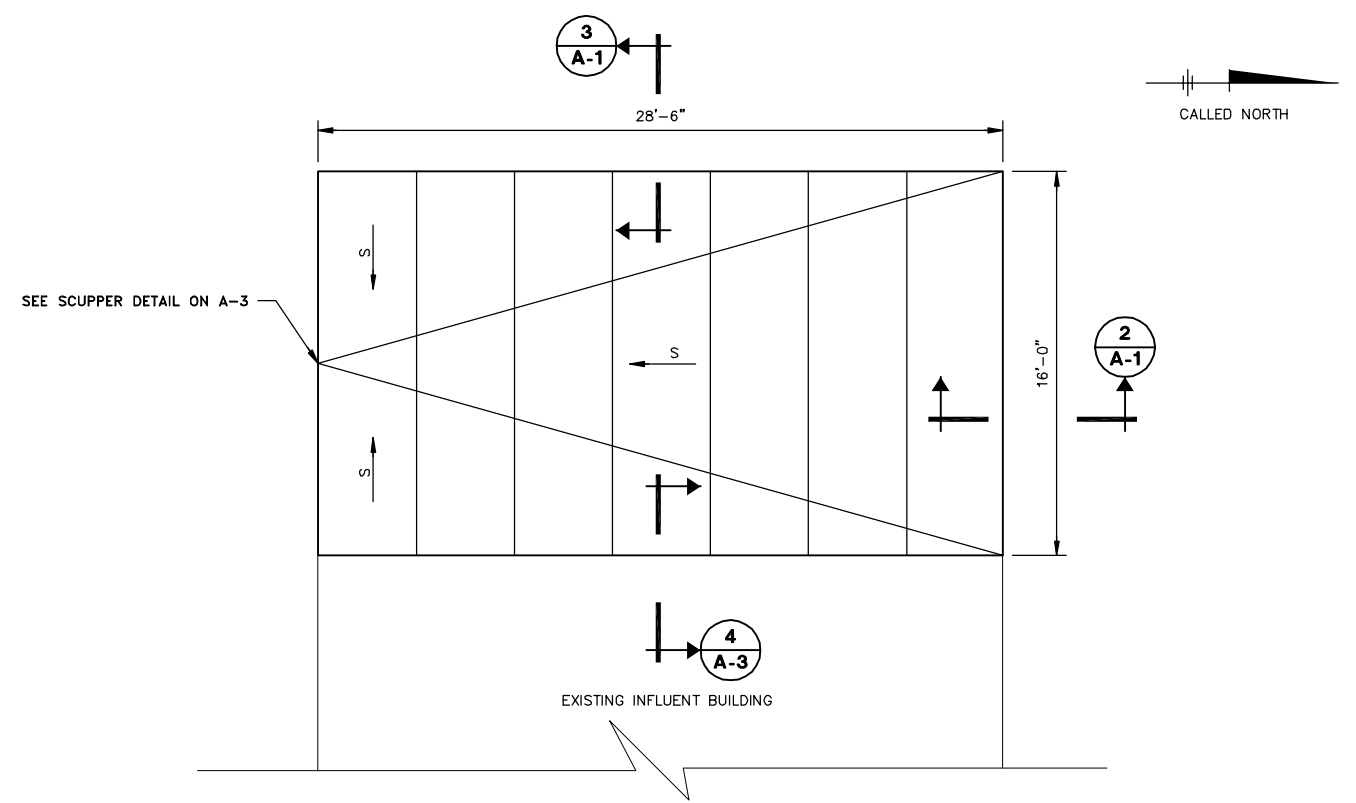
GENERAL

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Syracuse, NY 13214
315-446-9120

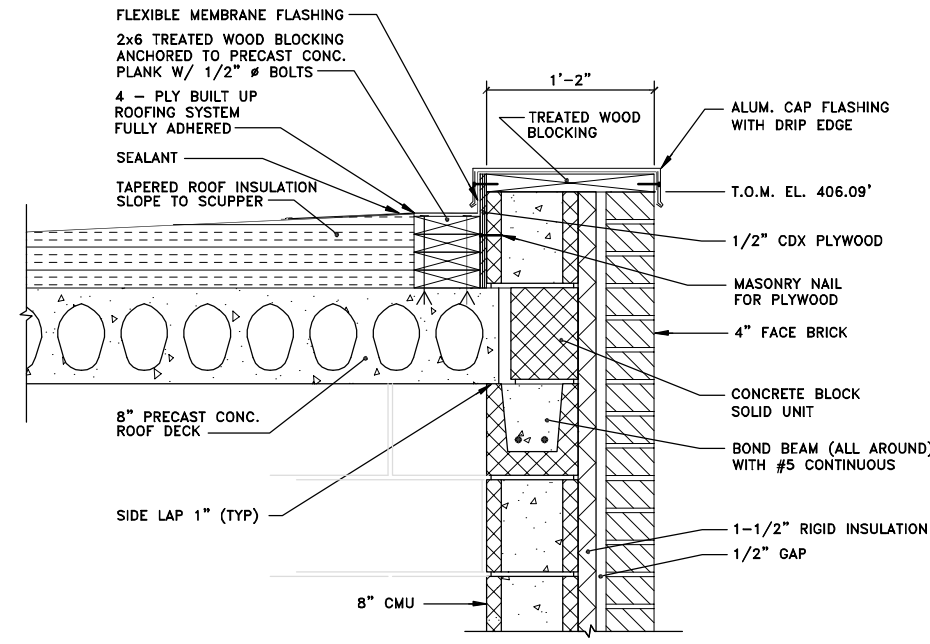
G-4



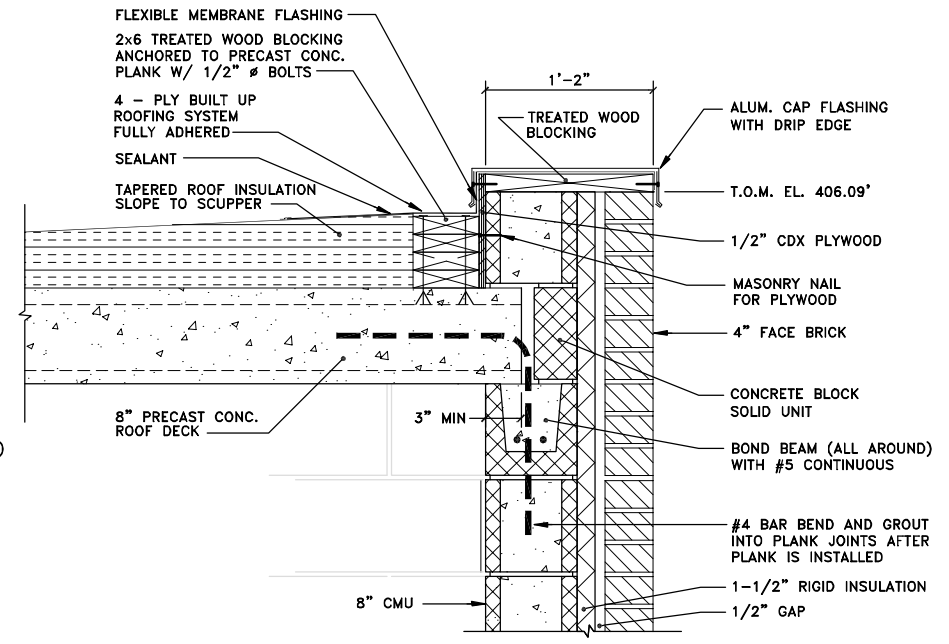
PLAN AT EL. 388.00'
SCALE: 1/4"=1'-0"



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



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



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

X: 00365X00.DWG, 00365X02.DWG
L: ON=*, OFF=*REF, BACK=DOOR, BACK=STAIR
P: PAGESET: CDL
8/13/02 SYR-54-AK GMS D.J.P
00365020/RECORD/DAVIS/00365A01.DWG

Graphic Scale	No.	Date	Revisions	Init
1/4"=1'-0"				
1/2"=1'-0"				

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

Project Mgr.	JCP
Designed by	WRH/JDS
Drawn by	AK
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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engineers & scientists

(RECORD DRAWING: MADE FROM DRAWING NO. A-1, TRACER NO. 00365020/DAVIS/0365A01.DWG, DATED 1/21/99) DATE _____ BY _____

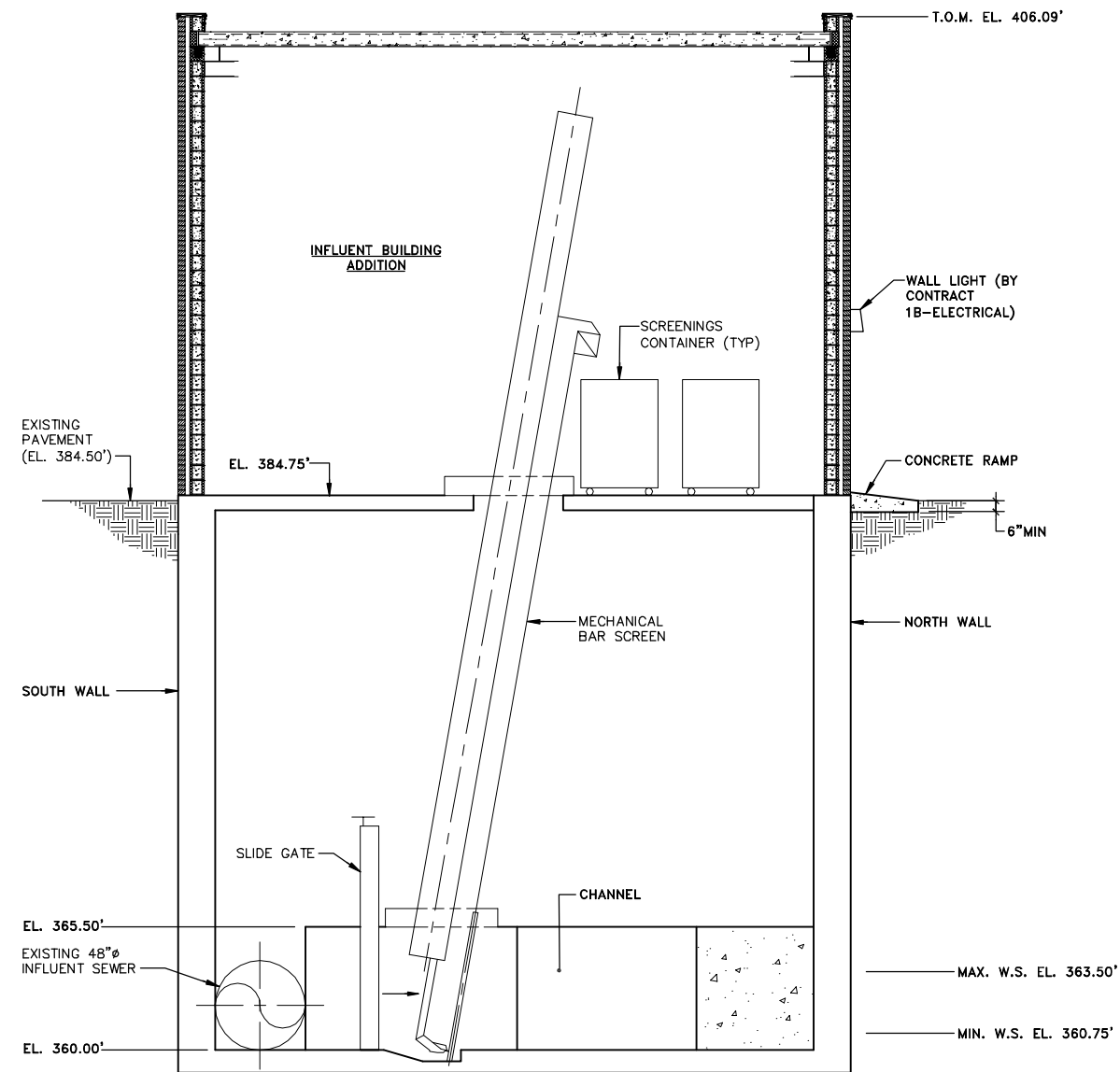
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

**INFLUENT BUILDING ADDITION
PLANS AND SECTIONS**
ARCHITECTURAL

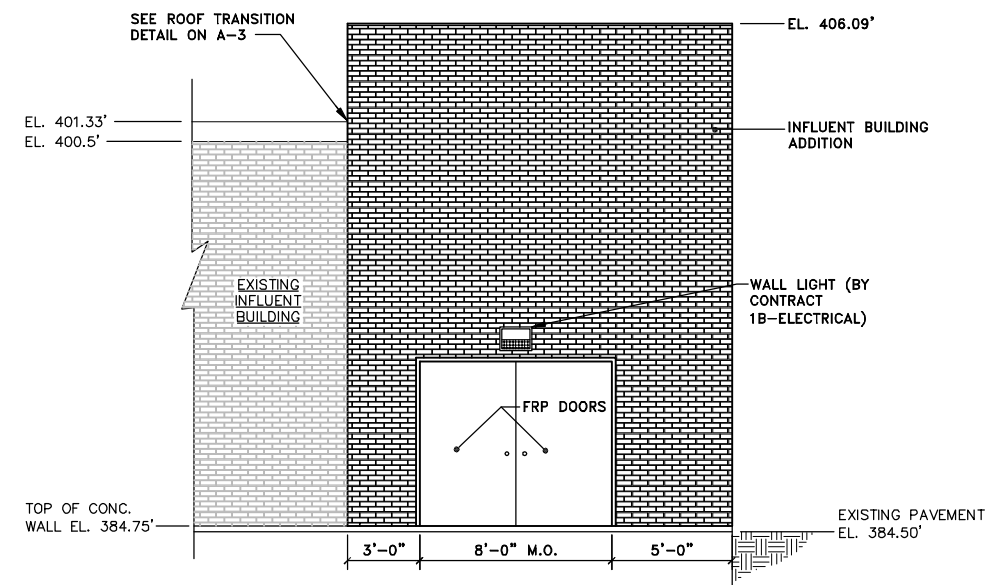
RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

A-1



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



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

GENERAL NOTE:
1. ALL WORK BY CONTRACT 1A-GENERAL UNLESS NOTED OTHERWISE.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

X: 00365X00.DWG
L: ON=*, OFF=*REF*
P: PAGESET: CDL
8/13/02 SYR-54-GMS DCC DJP
00365020/RECORD/DAVIS/00365A02.DWG

(RECORD DRAWING: MADE FROM DRAWING NO. A-2, TRACER NO. 00365020/DAVIS/00365A02.DWG, DATED 2/3/99)

DATE _____ BY _____



No.	Date	Revisions	Init

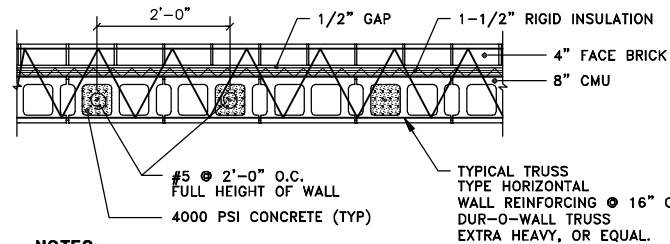
Project Mgr.	JCP
Designed by	WRH/JDS
Drawn by	GMS
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
INFLUENT BUILDING ADDITION
SECTION AND ELEVATION
ARCHITECTURAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

A-2

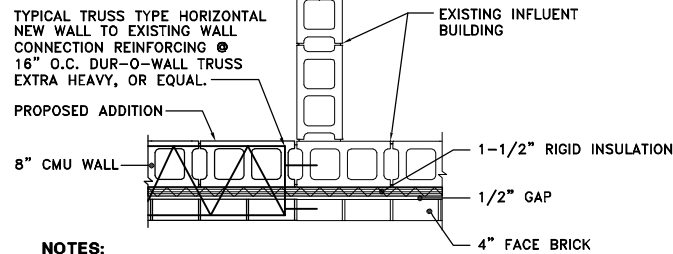


NOTES:

- HORIZONTAL COMPOSITE WALL REINFORCEMENT SHALL BE HOT DIPPED GALVANIZED.
- ALL BRICK TO MATCH ADJACENT BUILDING.

CMU WALL DETAIL

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

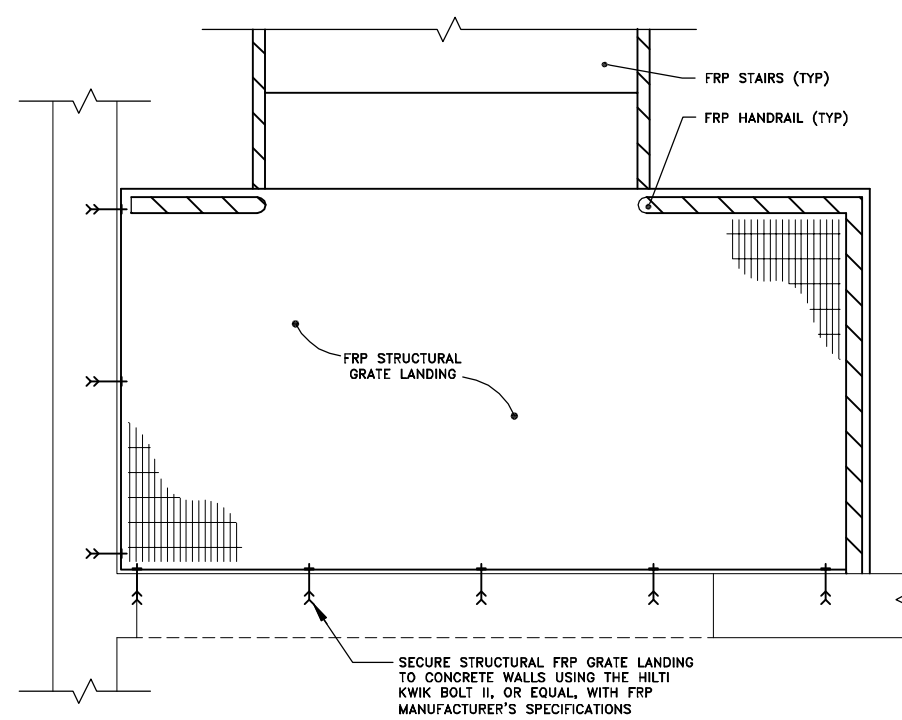


NOTES:

- BRICK FACE ON WESTERN FACADE OF EXISTING BUILDING MUST BE REMOVED PRIOR TO THE CONSTRUCTION OF ADDITION.
- ANY BRICK NOT DAMAGED DURING REMOVAL MAY BE USED ON THE ADDITION FACADE.
- ALL TRUSS REINFORCEMENT CONNECTIONS TO THE EXISTING BUILDING SHALL BE DRILLED AND EPOXY GROUTED.

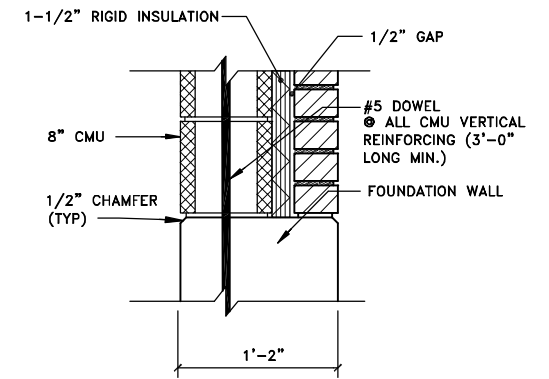
NEW TO EXISTING WALL DETAIL

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



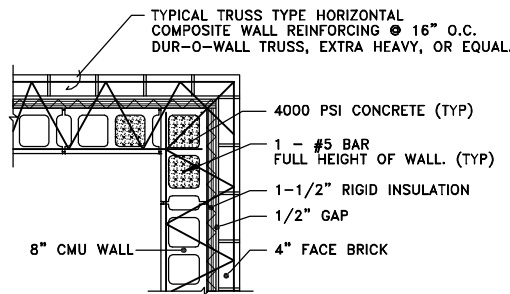
FRP LANDING CONNECTION DETAIL

SCALE: 1"=1'-0"



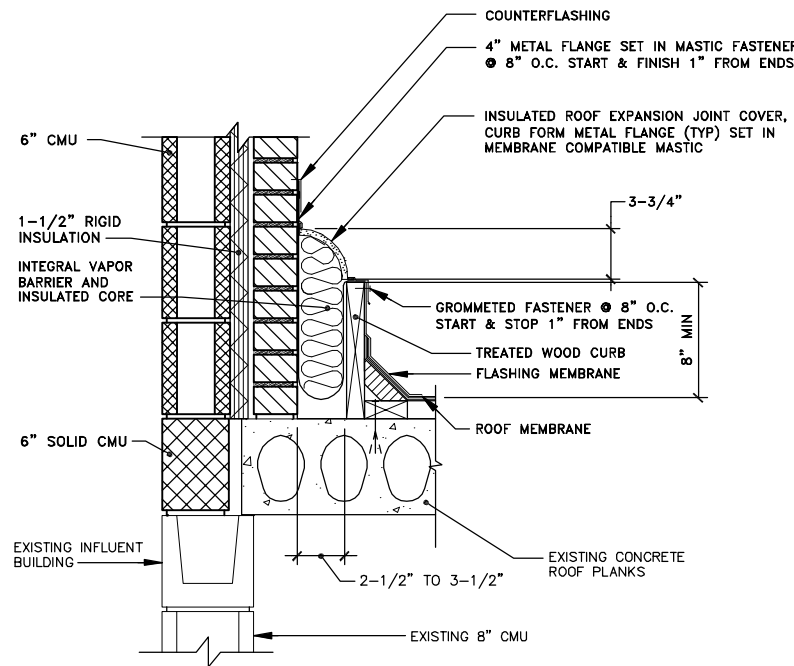
CHAMFER DETAIL

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



CMU CORNER DETAIL

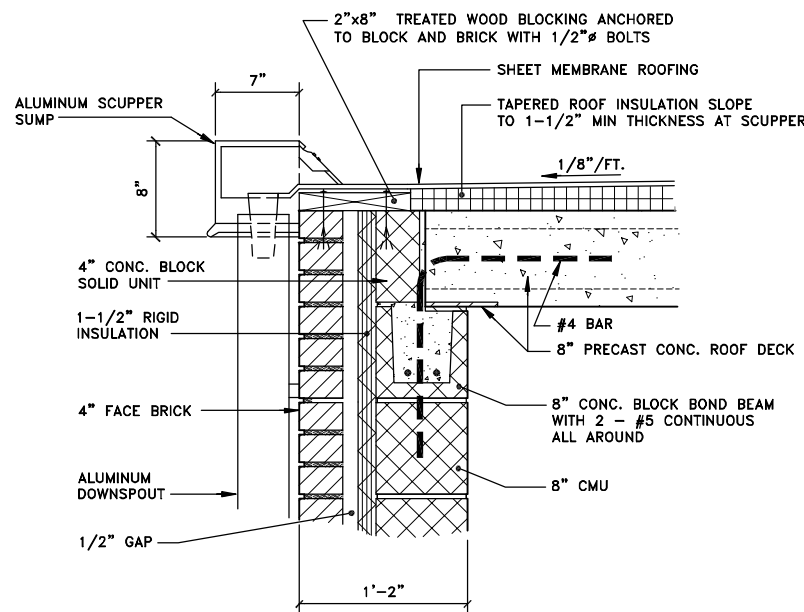
SCALE: 3/4"=1'-0"



ROOF TRANSITION DETAIL

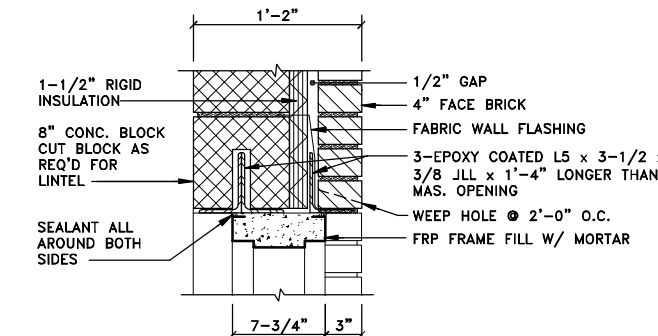
SCALE: 1-1/2"=1'-0"

4
A-1



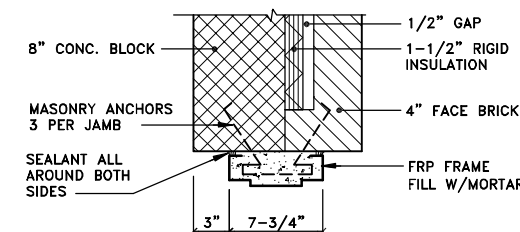
SCUPPER SUMP DETAIL

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



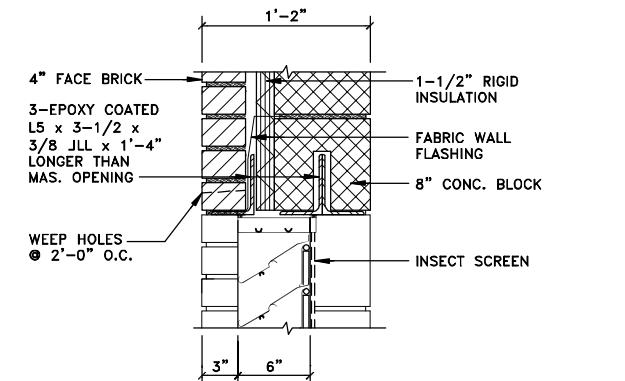
HEAD DETAIL

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



JAMB DETAIL

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



LOUVER DETAIL

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

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P: PAGESET: CDL
8/13/02 SYR-54-RJM GMS DJP
00365020/RECORD/DAVIS/00365A03.DWG

No.	Date	Revisions	Init

Project Mgr. --- JCP
Designed by --- WRH/JDS
Drawn by --- RJM
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

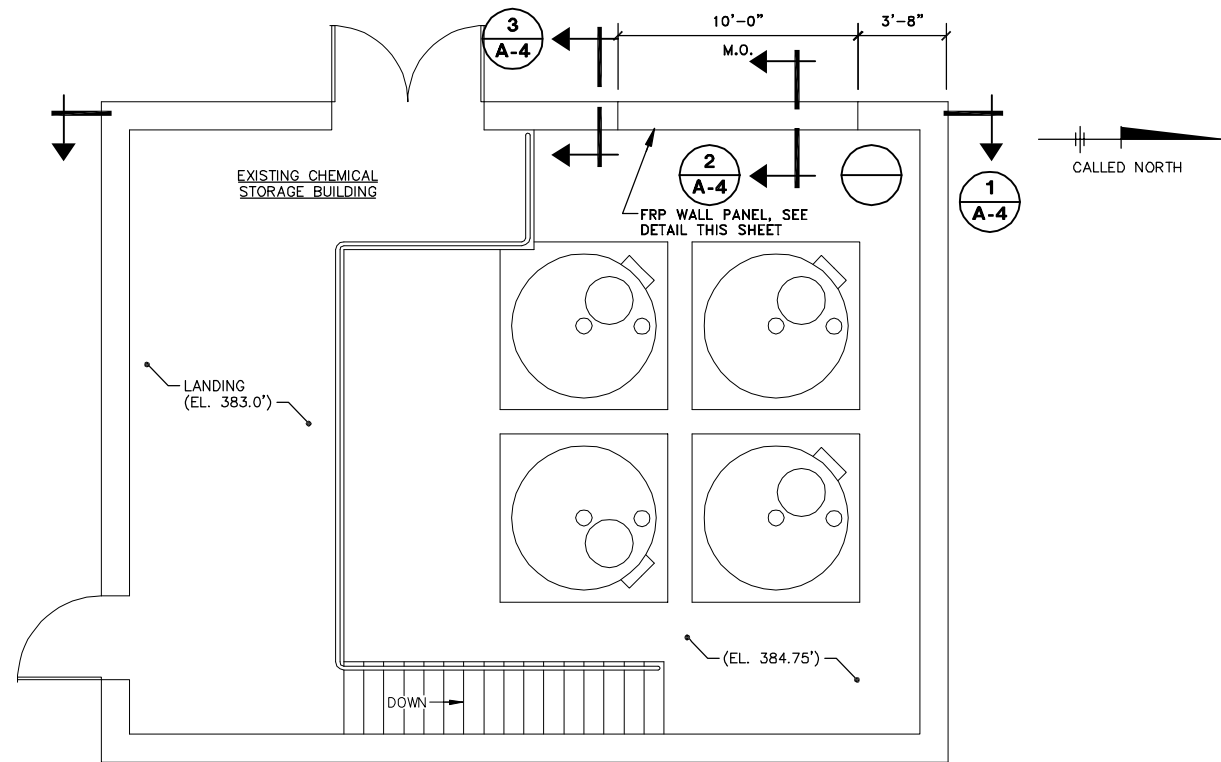
**INFLUENT BUILDING ADDITION
MISCELLANEOUS DETAILS**

ARCHITECTURAL

File Number 003.65.006
Date AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

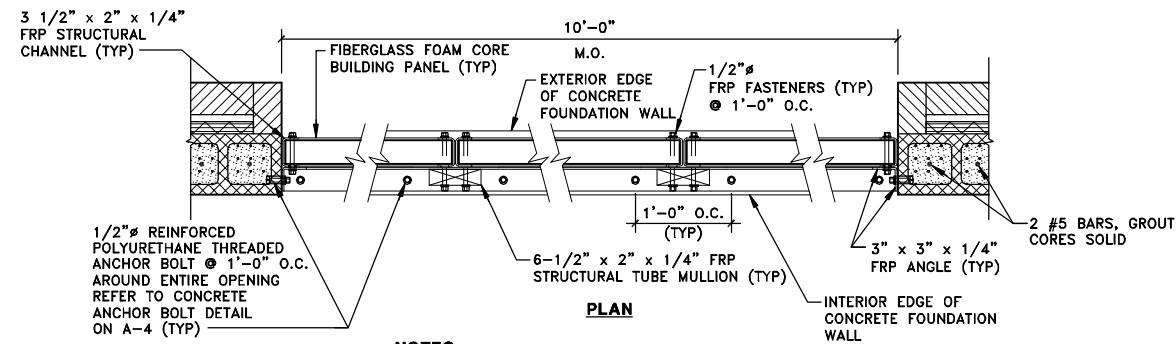
A-3

RECORD DRAWINGS
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THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.



PLAN

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

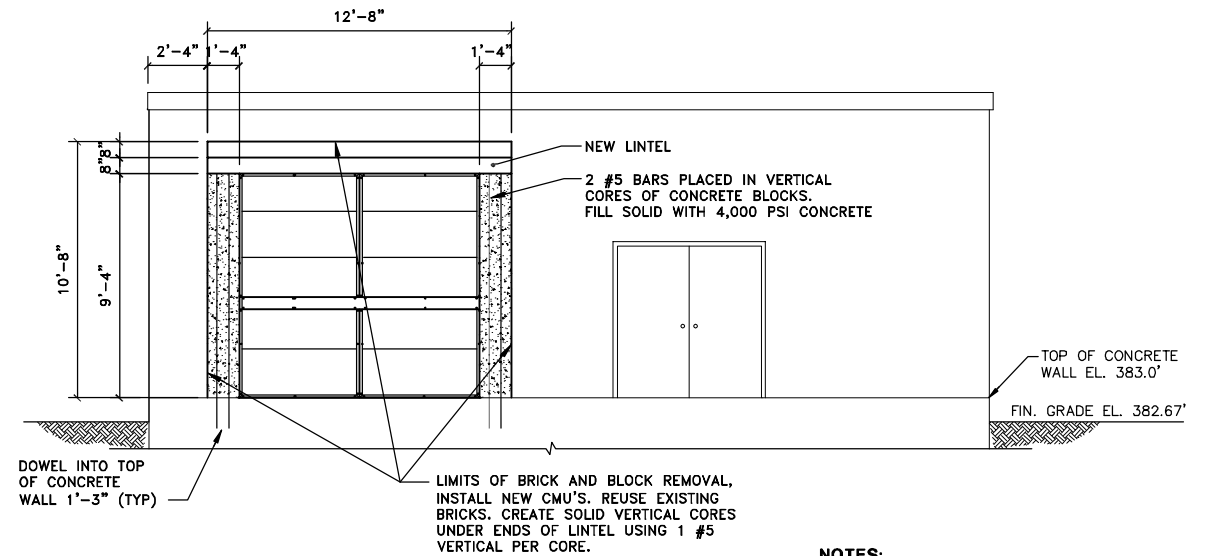


NOTES:

- 3" x 1/4" FRP ANGLE SHALL BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE MASONRY AND CONCRETE HEADER OPENINGS.
- FRP STRUCTURAL CHANNEL SHALL BE INSTALLED AT EACH END OF EACH FRP WALL SECTION, SECURELY BONDED. MITERED CORNERS SHALL BE USED.
- ALL FRP STRUCTURAL SHAPES TO BE SUPPLIED BY FIBERGLASS FOAM CORE BUILDING PANEL MANUFACTURER.
- ALL EXTERIOR JOINTS SHALL BE CAULKED WITH SEALANT.

FRP WALL PANEL DETAIL

SCALE=1"=1'-0"



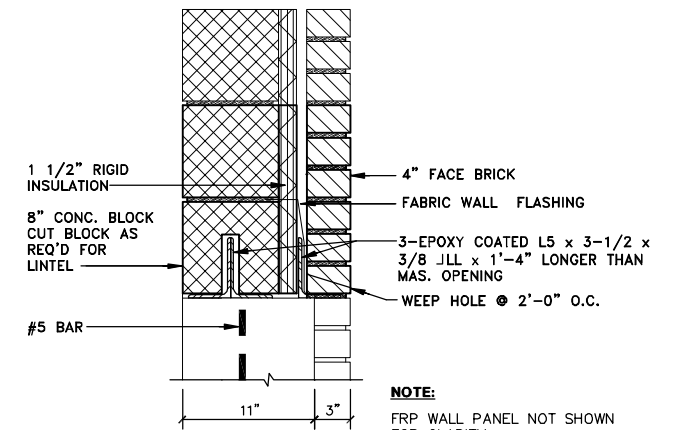
WEST SECTION

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

1
A-4

NOTES:

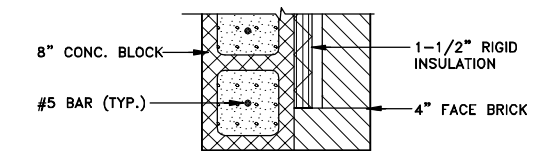
- BRICK AND BLOCK NOT SHOWN FOR CLARITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING THE CREATED MASONRY OPENING DURING ALL PHASES OF CONSTRUCTION.



LINTEL SECTION

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

2
A-4

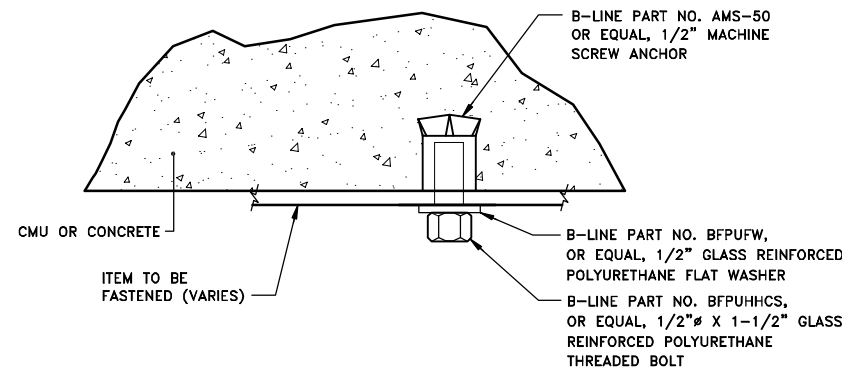


PLAN

JAMB SECTION

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

3
A-4



CONCRETE ANCHOR BOLT DETAIL

NOT TO SCALE

X: 00365X00, 00365X01.DWG
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P: PAGESET: CDL
8/13/02 SYR-54-GMS GMS D.J.P
00365020/RECORD/DAVIS/00365A04.DWG

No.	Date	Revisions	Init

Project Mgr. --- JCP
Designed by --- WRH/JDS
Drawn by --- GMS
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

CHEMICAL STORAGE BUILDING
PLAN, SECTIONS AND DETAILS
ARCHITECTURAL

RECORD DRAWINGS
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THE PROJECT AS CONSTRUCTED.

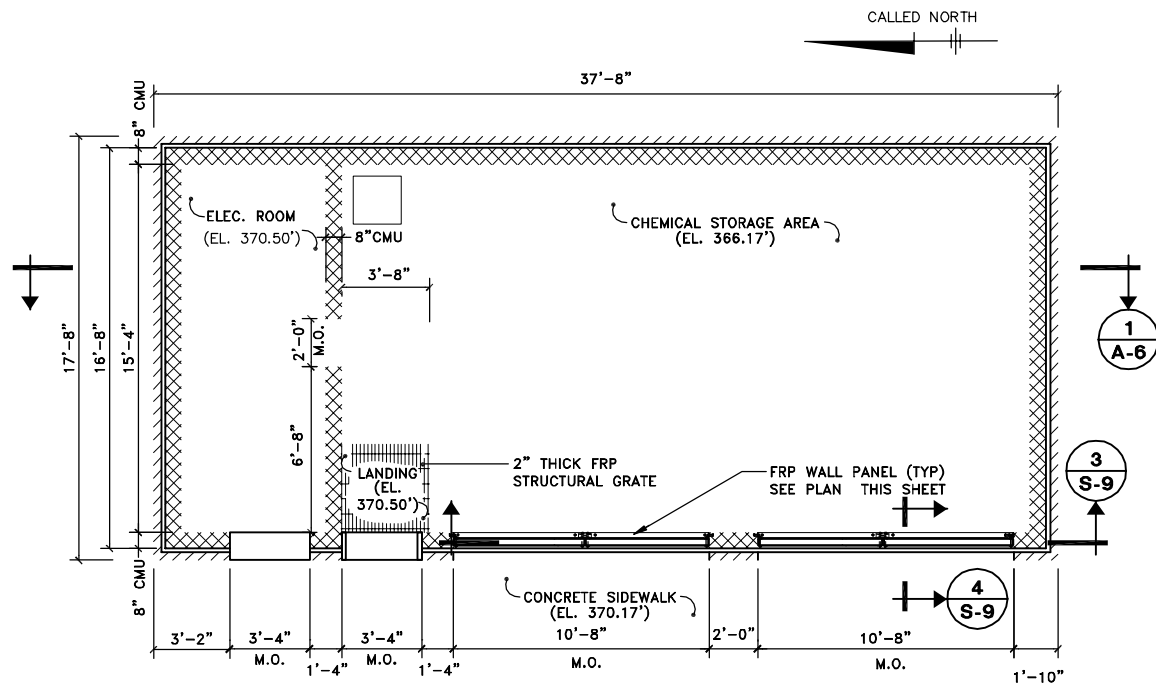
BLASLAND, BOUCK & LEE, INC.

File Number
003.65.006

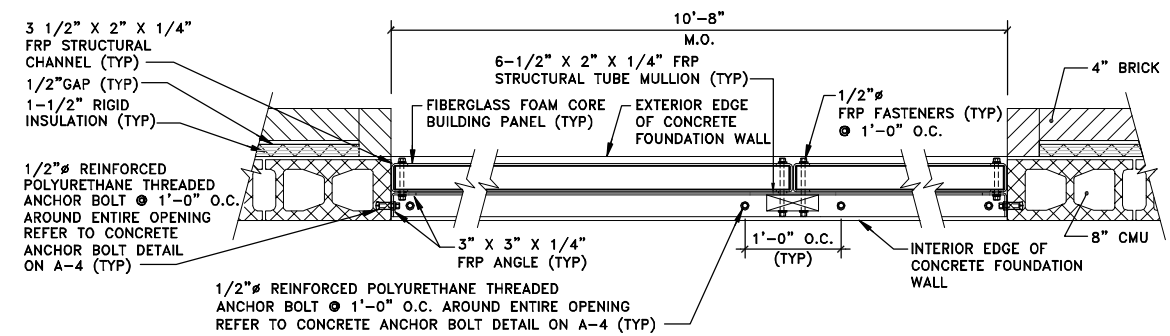
Date
AUGUST 2002

Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

A-4



FLOOR PLAN AT EL. 370.50'

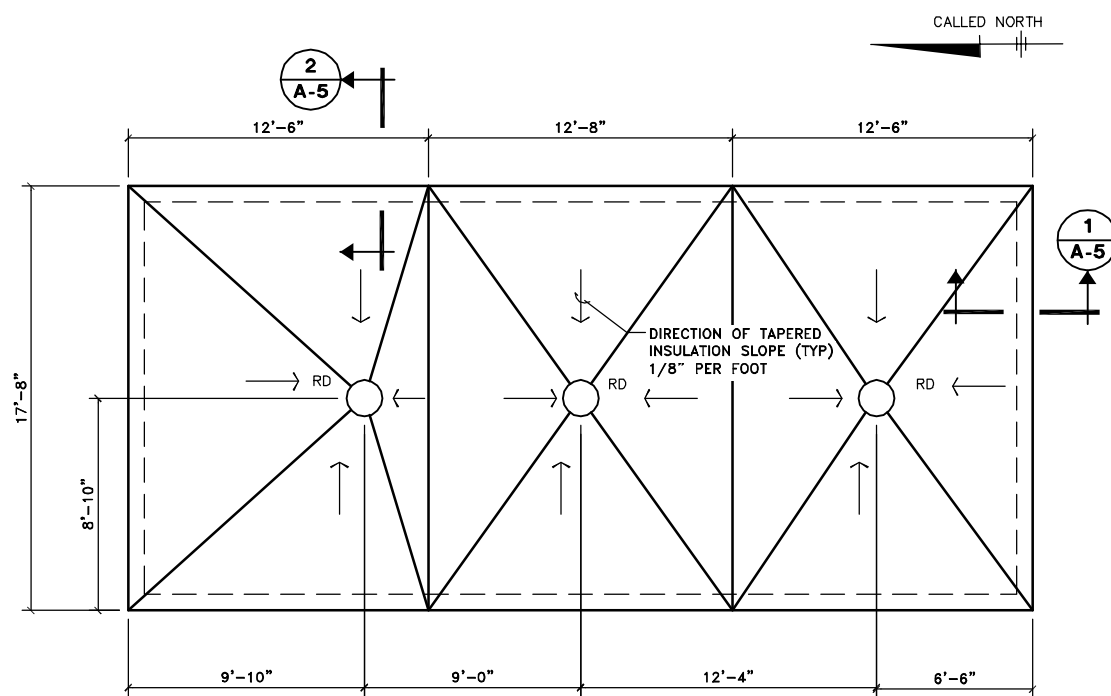


NOTES:

- 3"x1/4" FRP ANGLE SHALL BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE MASONRY AND CONCRETE HEADER OPENINGS.
- FRP STRUCTURAL CHANNEL SHALL BE INSTALLED AT EACH END OF EACH FRP WALL SECTION, SECURELY BONDED. MITERED CORNERS SHALL BE USED.
- ALL FRP STRUCTURAL SHAPES TO BE SUPPLIED BY FIBERGLASS FOAM CORE BUILDING PANEL MANUFACTURER.
- ALL EXTERIOR JOINTS SHALL BE CAULKED WITH SEALANT.

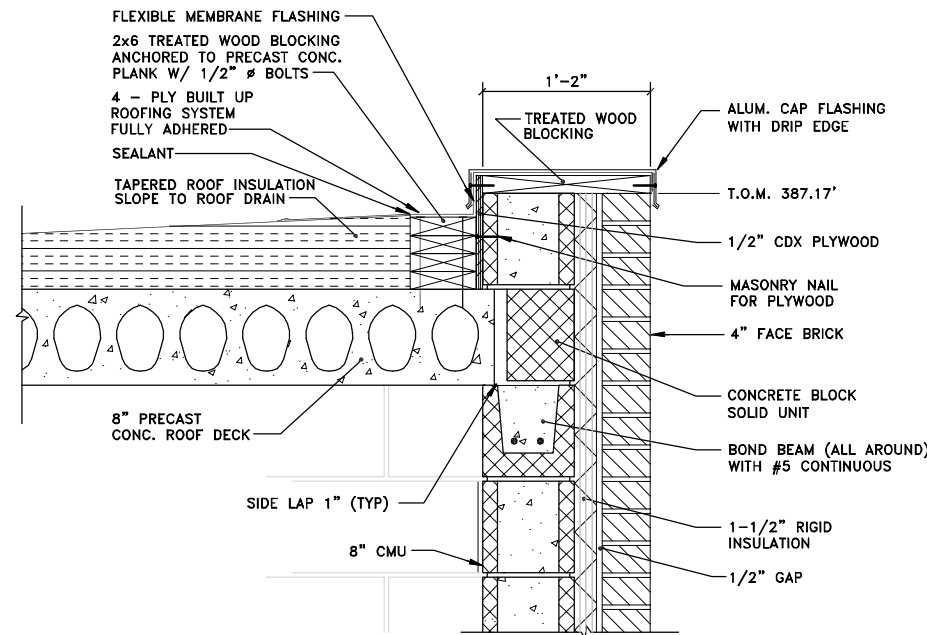
FRP WALL PANEL PLAN

SCALE= 1"=1'-0"



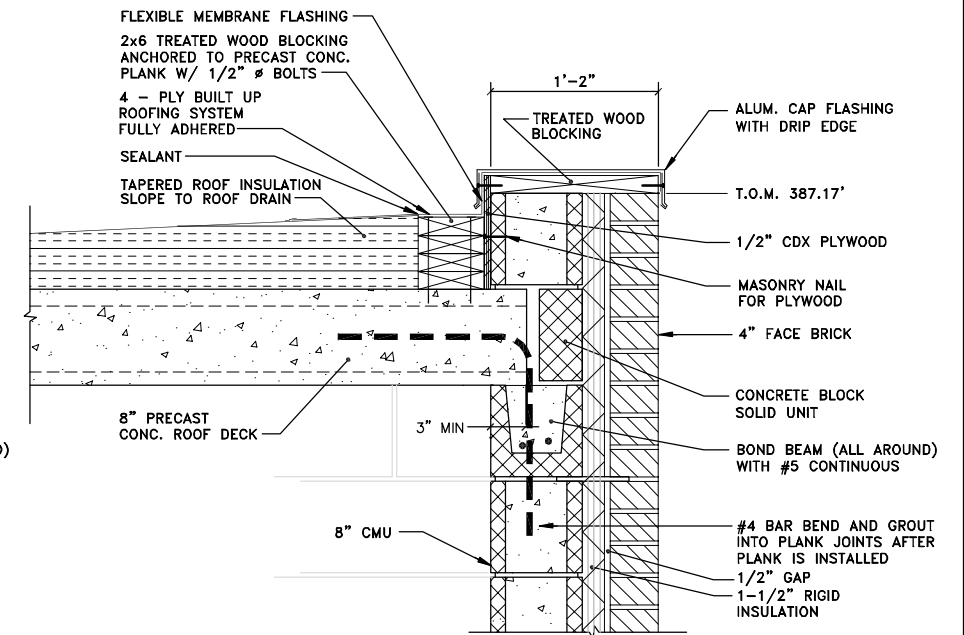
ROOF PLAN

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



SECTION 1 A-5

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



SECTION 2 A-5

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

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 P: PAGESET: CDL
 8/13/02 SYR-54-DCC GMS DJP
 00365020/RECORD/GASKIN/00365A03.DWG

No.	Date	Revisions	Init

Project Mgr. --- JCP
Designed by --- WRH/JDS
Drawn by --- DCC
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

DAVIS ROAD PUMP STATION

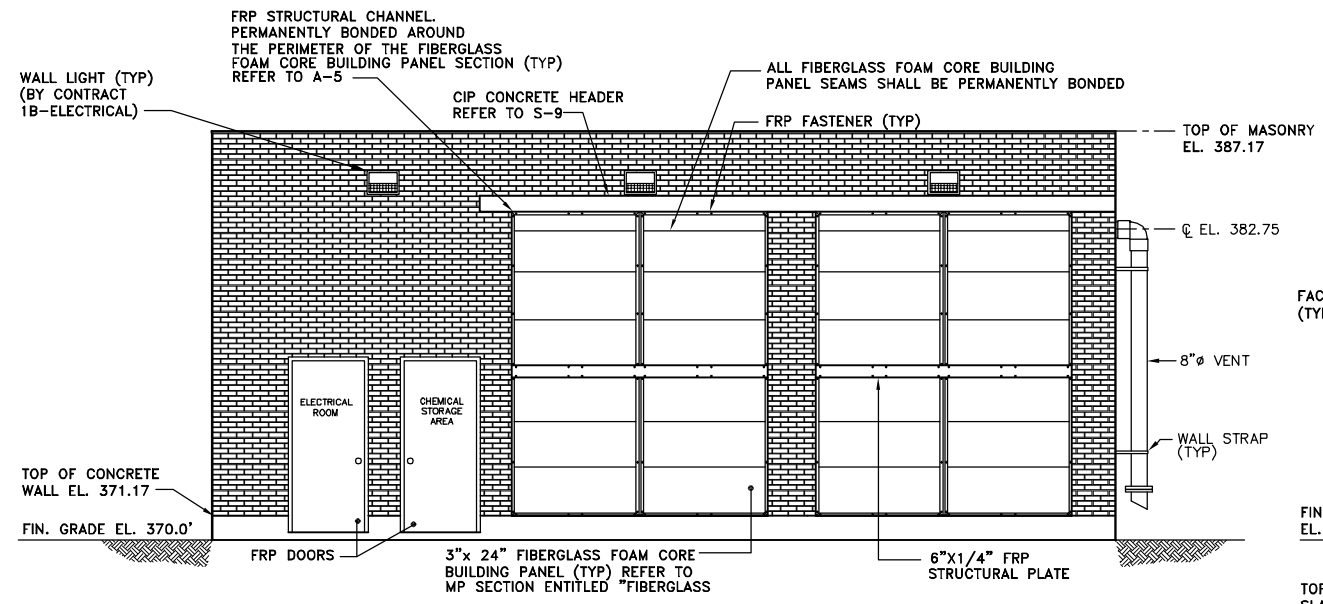
CHEMICAL STORAGE BUILDING
PLANS AND SECTIONS
 ARCHITECTURAL

RECORD DRAWINGS TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.

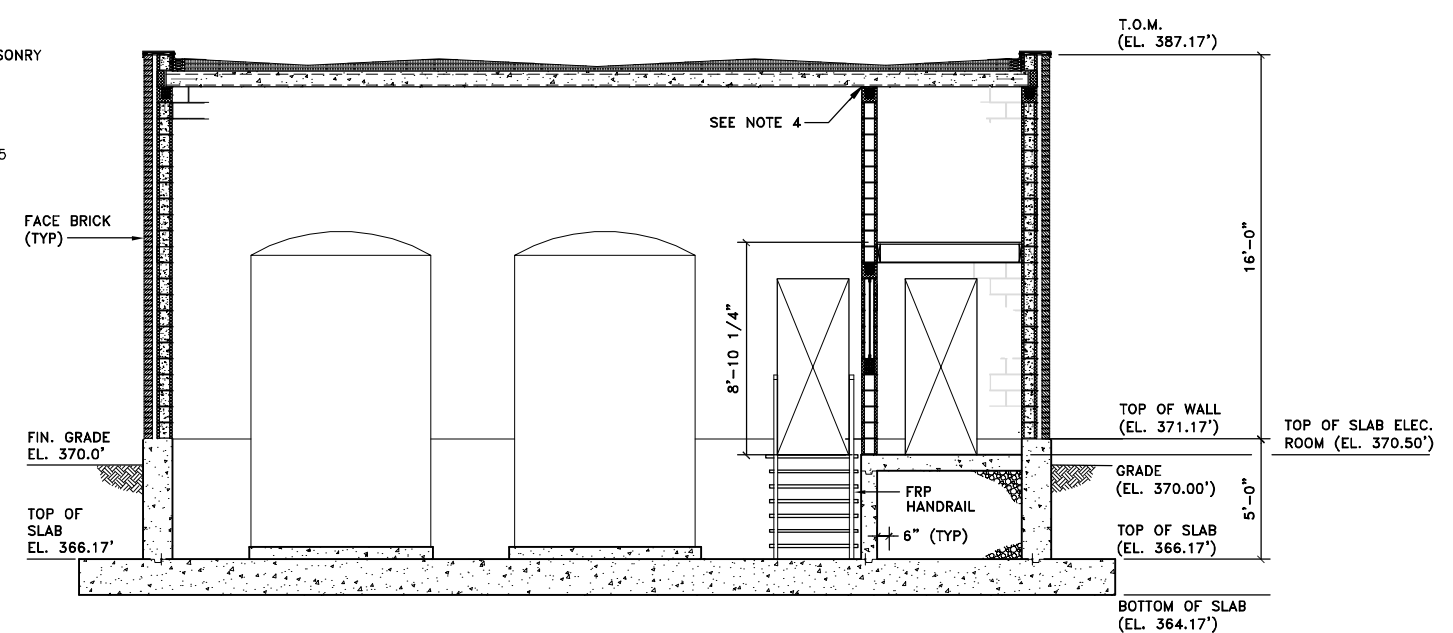
BLASLAND, BOUCK & LEE, INC.

File Number 003.65.006
 Date AUGUST 2002
 Blasland, Bouck & Lee, Inc.
 Corporate Headquarters
 6723 Towpath Road
 Syracuse, NY 13214
 315-446-9120

A-5



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



SECTION 1 A-5
SCALE: 1/4"=1'-0"

- NOTES:**
1. CONCRETE CONTAINMENT AREA FLOORS AND WALLS SHALL BE COATED IN ACCORDANCE WITH SECTION 3.08.A.7 OF MP SECTION ENTITLED "PAINTING," TO TOP OF CONTAINMENT WALL (EL. 371.17')
 2. ALL OTHER INTERIOR SECTIONS TO BE COATED IN ACCORDANCE WITH THE APPLICABLE SECTION OF MP SECTION ENTITLED "PAINTING."
 3. ALL WORK BY CONTRACT 1A-GENERAL UNLESS NOTED OTHERWISE.
 4. CMU WALL SEPARATING CHEMICAL STORAGE AREA FROM THE ELECTRICAL ROOM SHALL BE CAULKED VAPOR TIGHT WITH SEALANT.

RECORD DRAWINGS
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BLASLAND, BOUCK & LEE, INC.

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Graphic Scale	No.	Date	Revisions	Init
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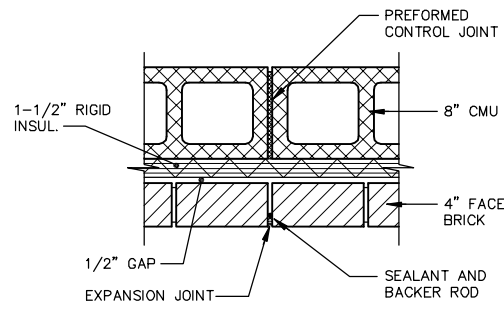
Project Mgr. --- JCP ---
Designed by --- WRH/JDS ---
Drawn by --- RJM ---
Checked by --- JCP ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---



COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
**CHEMICAL STORAGE BUILDING
ELEVATION AND SECTION**
ARCHITECTURAL

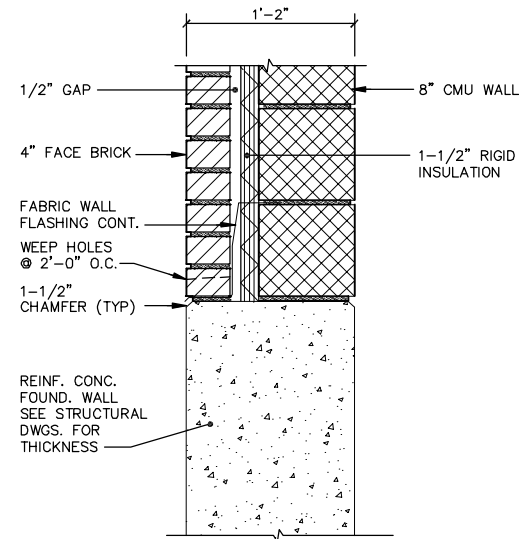
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A-6



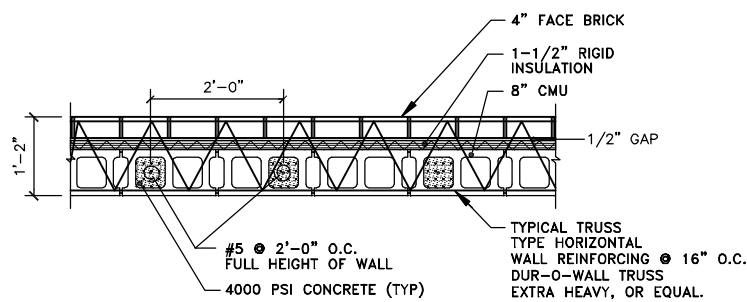
MASONRY JOINT DETAIL

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



DETAIL

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

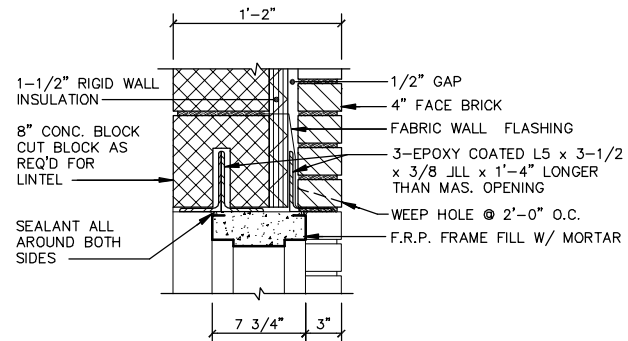


CMU WALL DETAIL

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

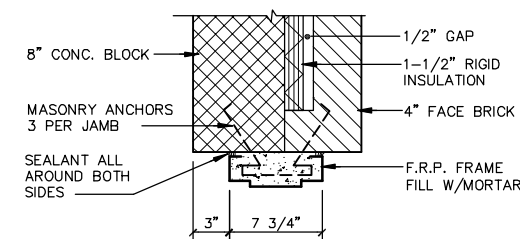
NOTES:

1. HORIZONTAL COMPOSITE WALL REINFORCEMENT SHALL BE HOT DIPPED GALVANIZED.



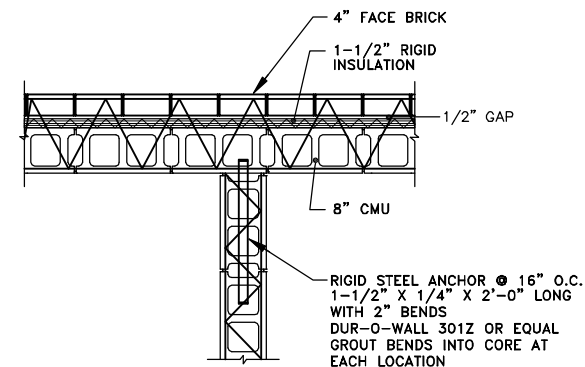
HEAD DETAIL

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



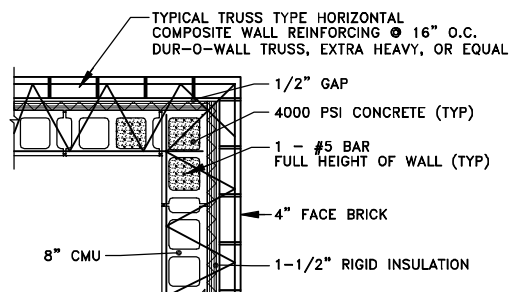
JAMB DETAIL

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



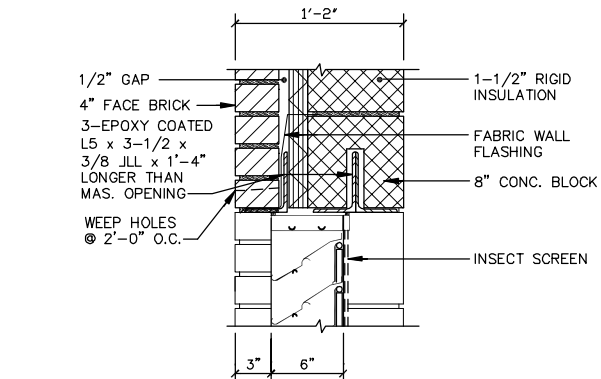
CMU INTERSECTION DETAIL

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



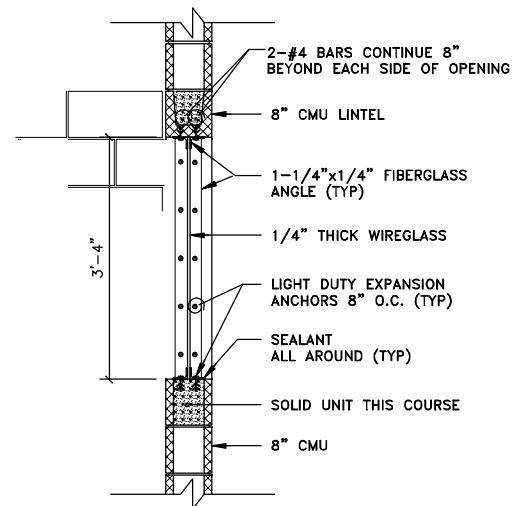
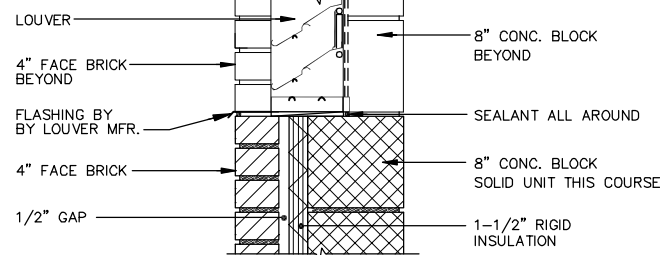
CMU CORNER DETAIL

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



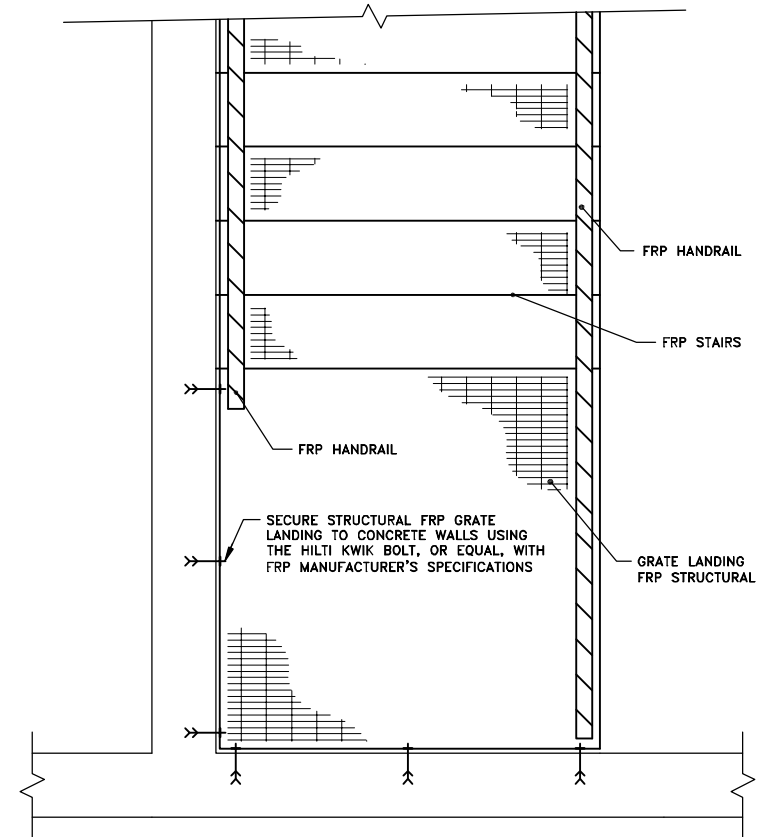
LOUVER DETAIL

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



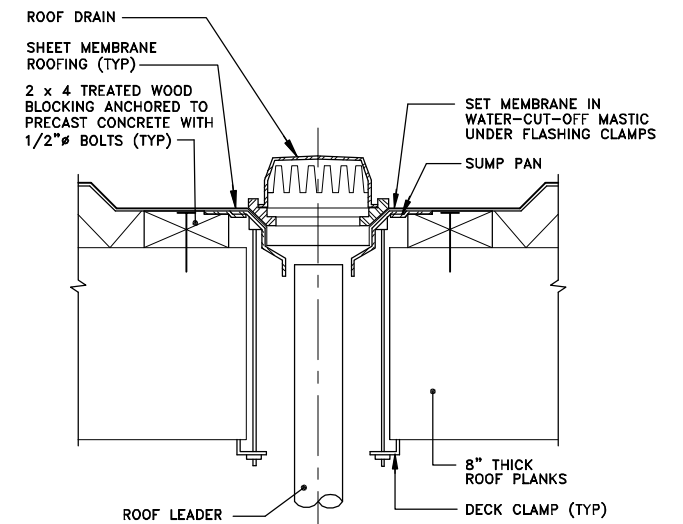
INTERIOR WINDOW DETAIL

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



FRP LANDING CONNECTION DETAIL

SCALE: 1"=1'-0"



ROOF DRAIN DETAIL

SCALE: 3"=1'-0"

RECORD DRAWINGS
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DATE _____ BY _____

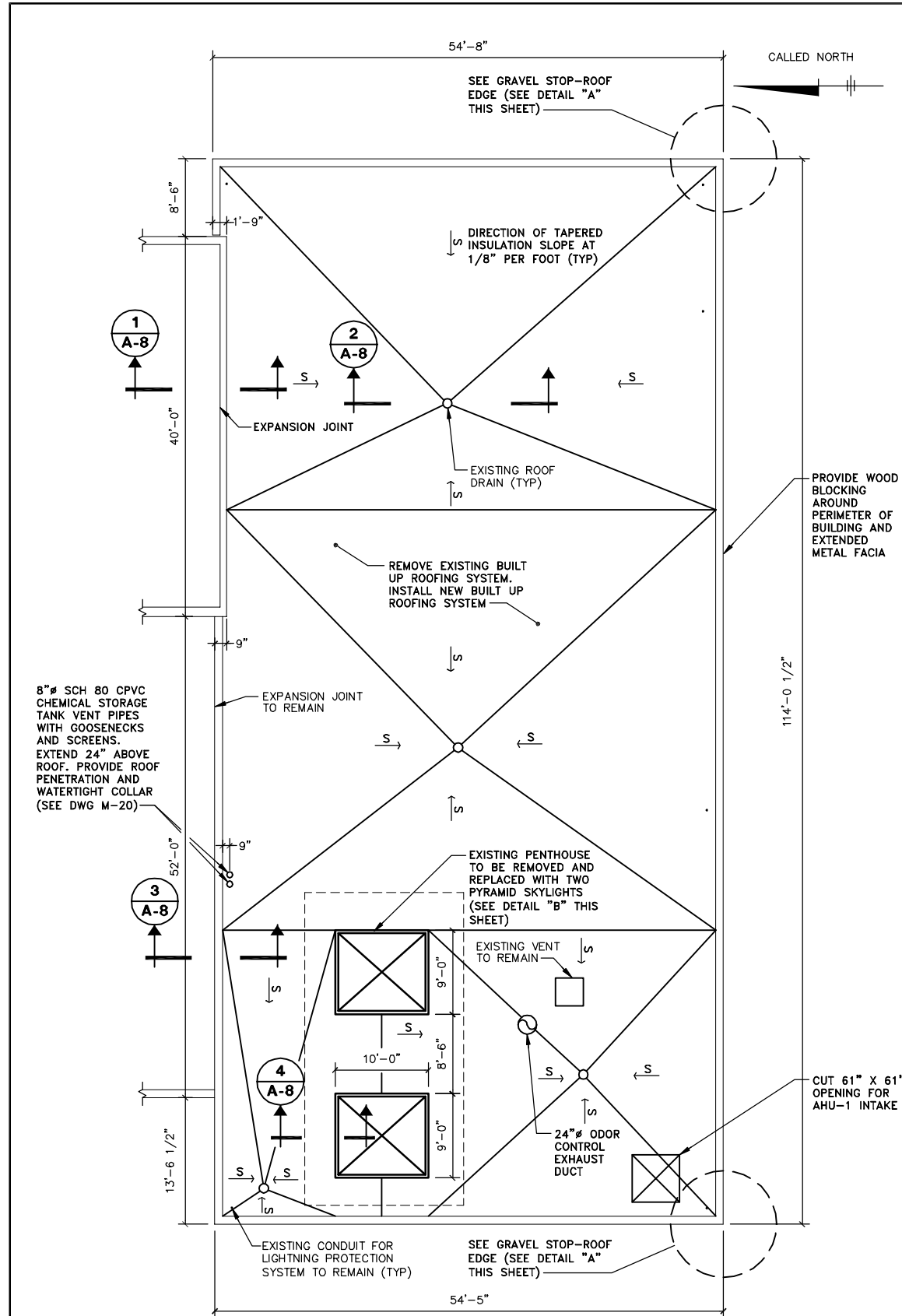
No.	Date	Revisions	Init

Project Mgr. --- JCP
Designed by --- WRH/JDS
Drawn by --- RJM
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CHEMICAL STORAGE BUILDING
MISCELLANEOUS DETAILS
ARCHITECTURAL

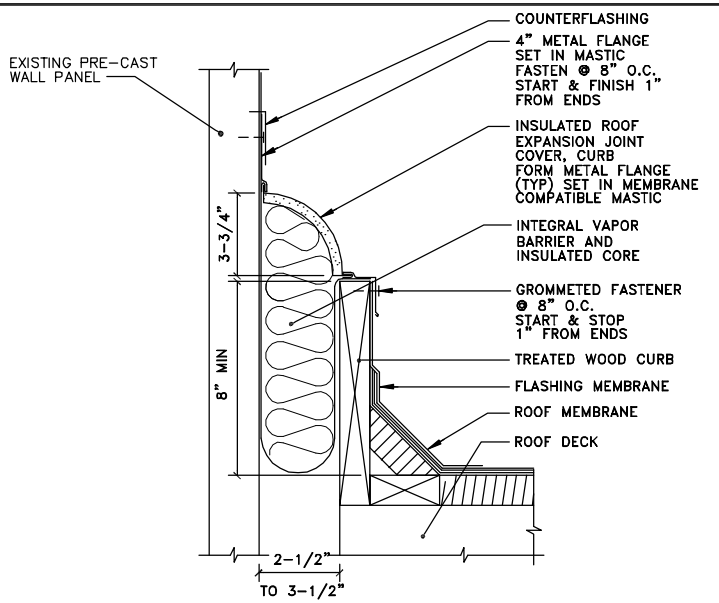
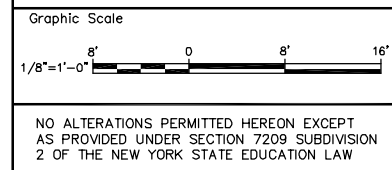
File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120



ROOF PLAN

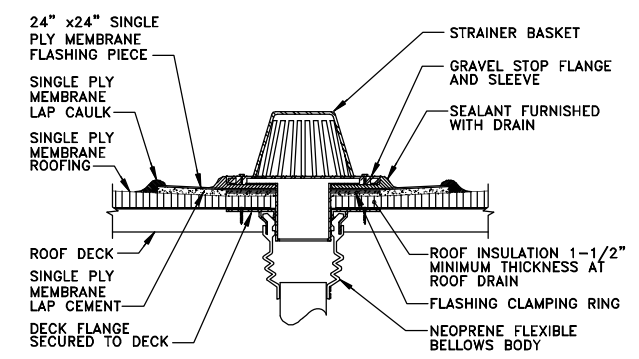
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 8/13/02 SYR-54-GMS DJP LAF
 00365020/RECORD/OAK/00365A06.DWG



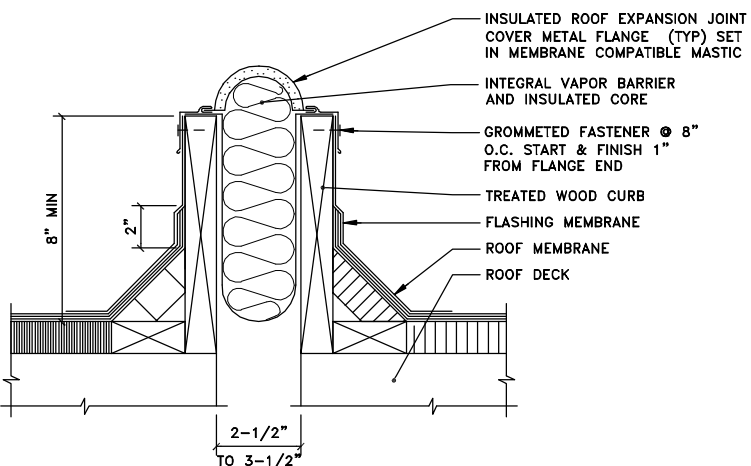
ROOF EXPANSION SECTION 1

NOT TO SCALE



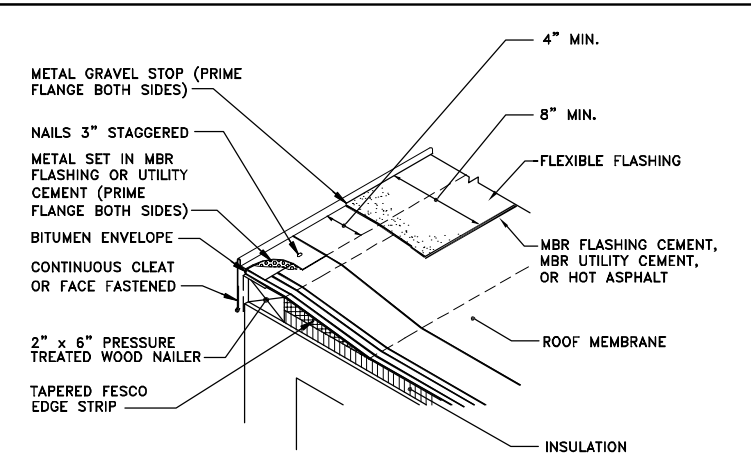
ROOF DRAIN SECTION 2

NOT TO SCALE



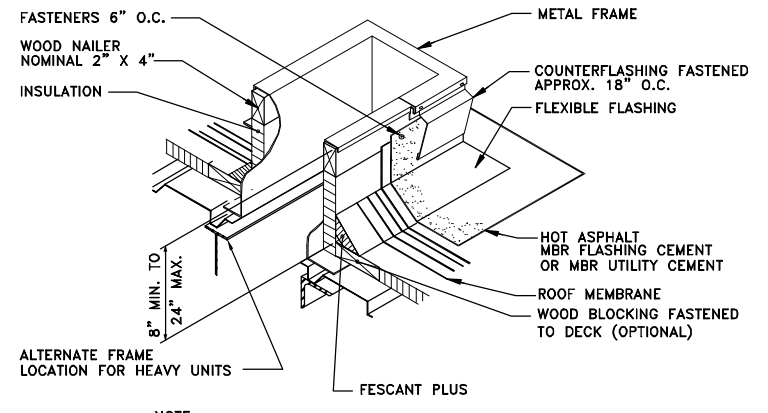
EXPANSION JOINT SECTION 3

NOT TO SCALE



GRAVEL STOP-ROOF EDGE DETAIL "A"

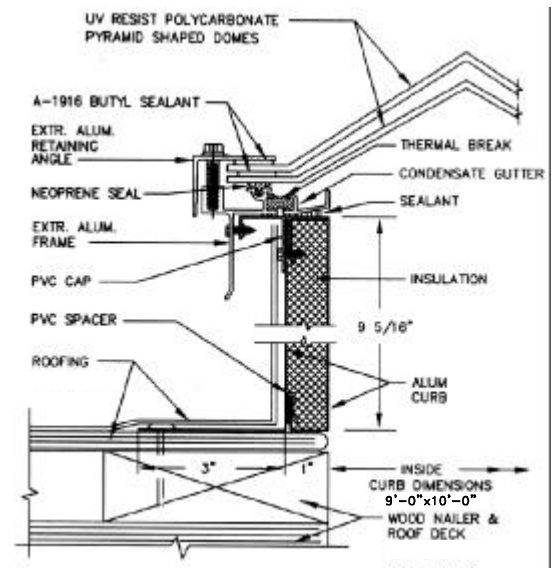
NOT TO SCALE



NOTE:
 1. SKYLIGHT OPENING MODIFIED WITH ADDITION OF 2'-6" PRESSURE TREATED FRAMING TO ACCOMMODATE 10' BY 8'-3" SKYLIGHTS

SKYLIGHT CURB DETAIL "B"

NOT TO SCALE



SKYLIGHT SECTION 4

NOT TO SCALE

- NOTES:**
- SCREEN AND GRIT BUILDING ROOF TO BE COMPLETELY REPLACED WITH NEW FOUR-PLY BUILT-UP ROOF WITH ONE-PLY BALLAST.
 - LOCATIONS OF ROOF DRAINS TO BE FIELD VERIFIED.
 - PROPOSED ROOF SLOPES SHALL MATCH THOSE OF EXISTING ROOF WHERE POSSIBLE.
 - ABBREVIATIONS:
 MBR - MEMBRANE
 OC - ON CENTER
 SPM - SINGLE PLY MEMBRANE
 - CONTRACTOR SHALL REMOVE EXISTING ROOF IN ACCORDANCE WITH MP SECTION 01760, ASBESTOS REMOVAL.

RECORD DRAWINGS
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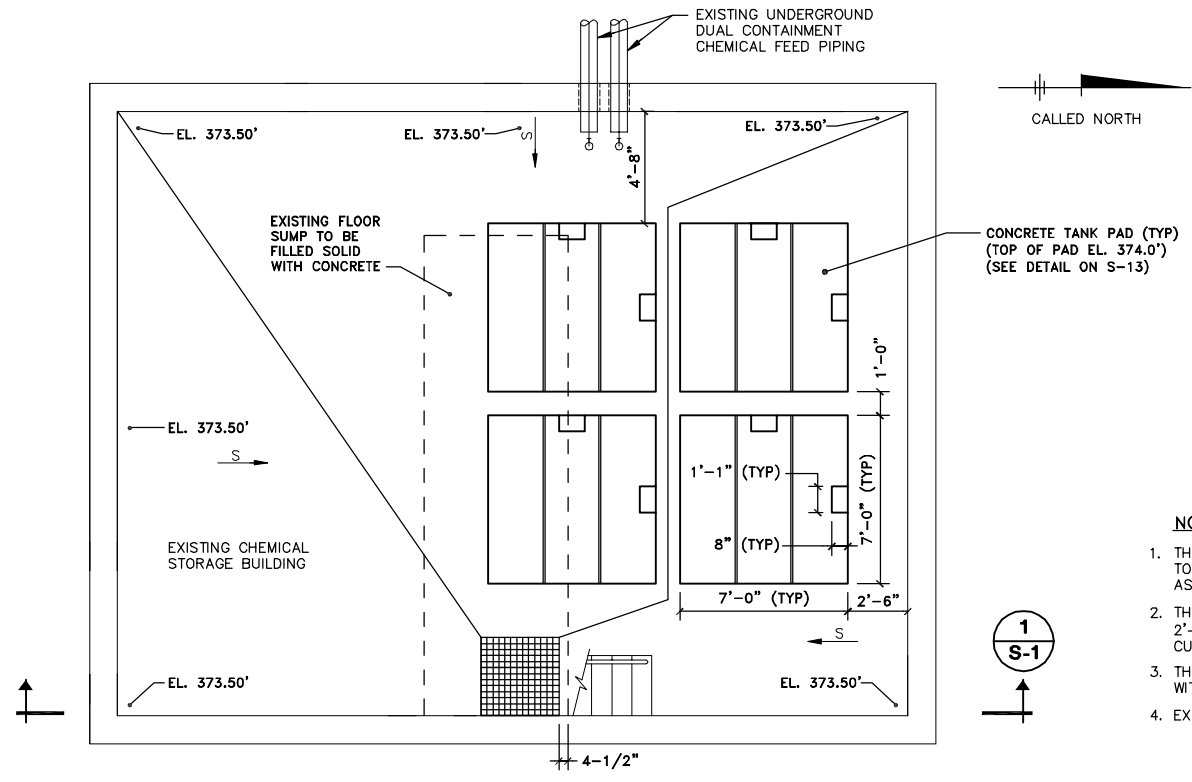
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION
SCREEN AND GRIT BUILDING
ROOF PLAN, SECTIONS AND DETAILS
 ARCHITECTURAL

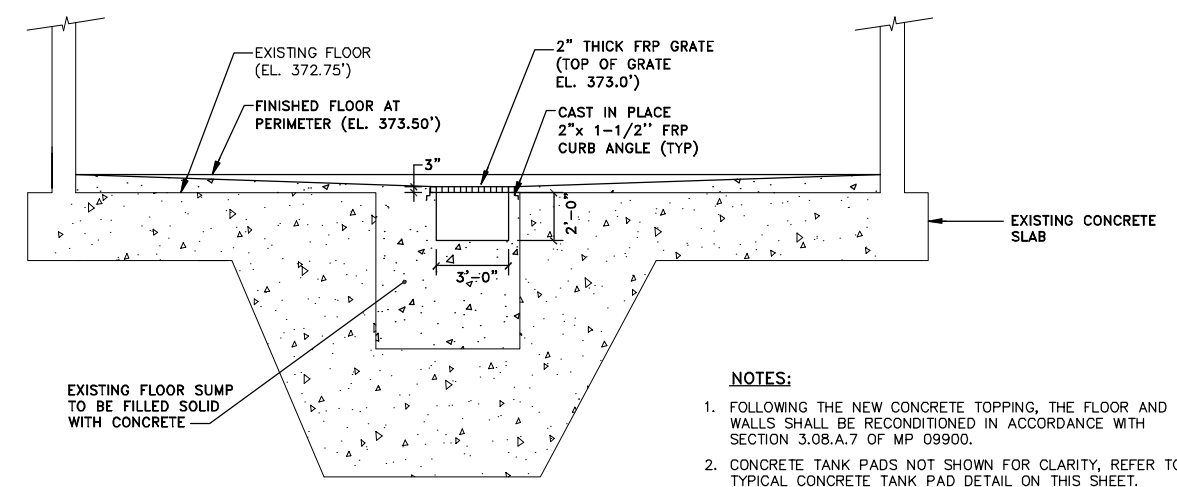
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 Syracuse, NY 13214
 315-446-9120

A-8



PLAN AT EL. 372.75
SCALE: 1/4"=1'-0"

- NOTES:**
1. THE EXISTING FLOOR SHALL RECEIVE A NEW CONCRETE TOPPING SLOPED TO DRAIN TO THE PROPOSED SUMP AS INDICATED.
 2. THE RECONFIGURED SUMP SHALL BE 3'-0" x 3'-0" x 2'-0" DEEP WITH A 2" x 1-1/2" CAST IN PLACE FRP CURB ANGLE.
 3. THE FRP GRATE SHALL BE SIZED TO FIT SECURELY WITHIN AND BE SUPPORTED BY THE FRP CURB ANGLE.
 4. EXISTING FLOOR ELEVATION IS 372.75'.



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

- NOTES:**
1. FOLLOWING THE NEW CONCRETE TOPPING, THE FLOOR AND WALLS SHALL BE RECONDITIONED IN ACCORDANCE WITH SECTION 3.08.A.7 OF MP 09900.
 2. CONCRETE TANK PADS NOT SHOWN FOR CLARITY, REFER TO TYPICAL CONCRETE TANK PAD DETAIL ON THIS SHEET.
 3. REFER TO MP SECTION ENTITLED "CONCRETE" FOR PREPARATION OF EXISTING CONCRETE FOR TOPPING.

- GENERAL NOTE:**
1. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.

RECORD DRAWINGS
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BLASLAND, BOUCK & LEE, INC.

X: 00365X00.DWG, 00365X04.DWG
L: ON=*, OFF=*REF
P: PAGESET: CDL
8/13/02 SYR-54-AK GMS D,JP
00365020/RECORD/DAVIS/00365S01.DWG

(RECORD DRAWING: MADE FROM DRAWING NO. S-1, TRACER NO. 00365020/DAVIS/0365S01.DWG, DATED 1/28/99)

DATE _____ BY _____

Graphic Scale	No.	Date	Revisions	Init
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1/2"=1'-0" 0 2' 4'				
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW				

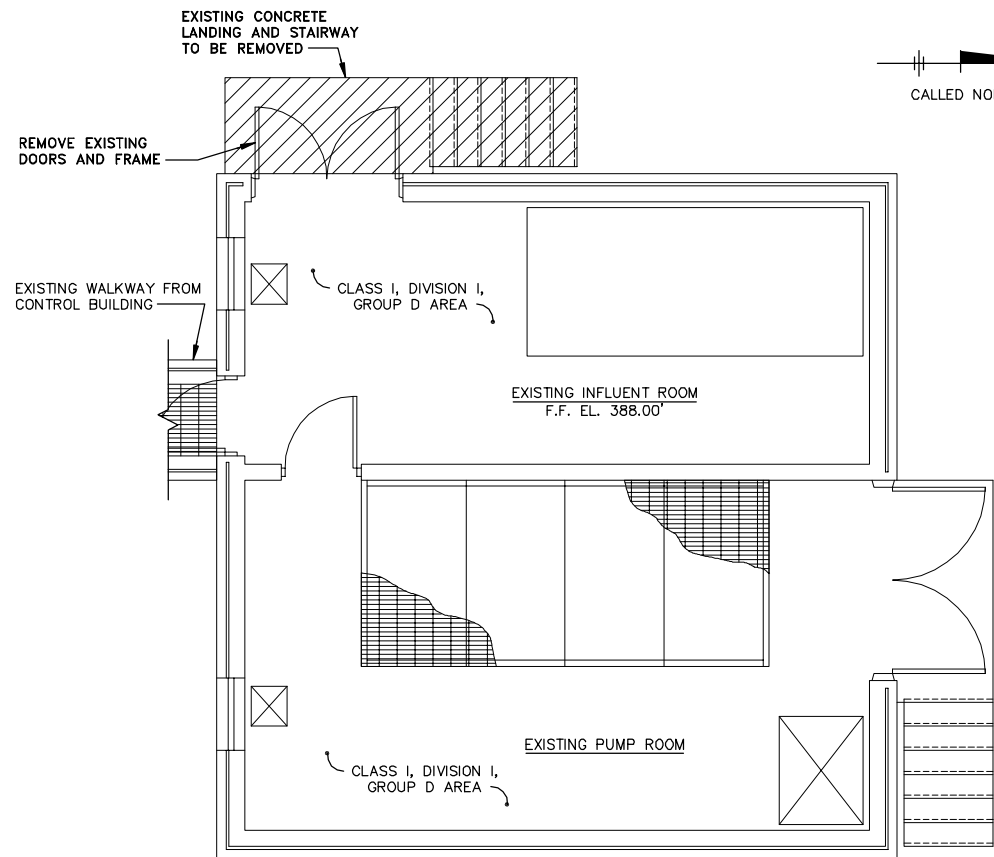
Project Mgr.	JCP
Designed by	WFF
Drawn by	AK
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
CHEMICAL STORAGE BUILDING
PLAN AND SECTION
STRUCTURAL

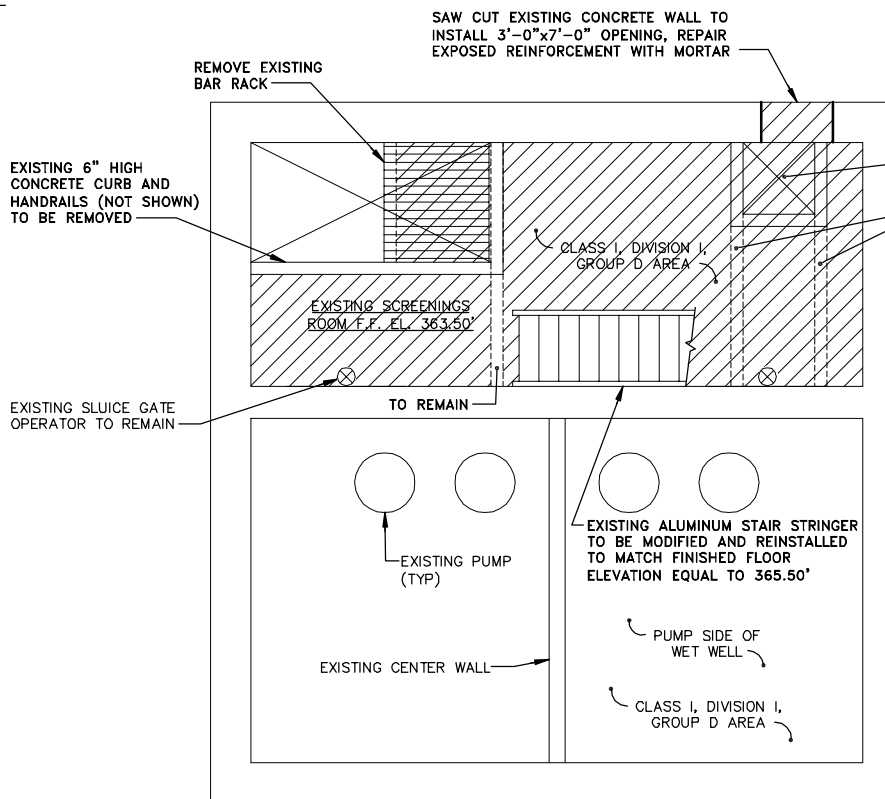
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Syracuse, NY 13214
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S-1



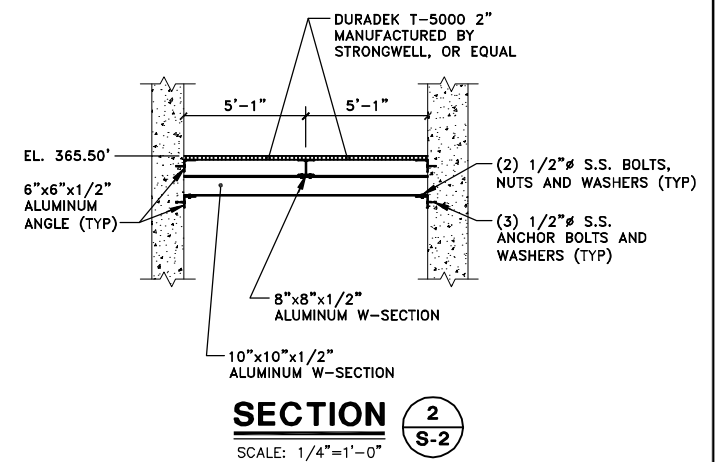
DEMOLITION PLAN AT EL. 388.00'

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



DEMOLITION PLAN AT EL. 365.50'

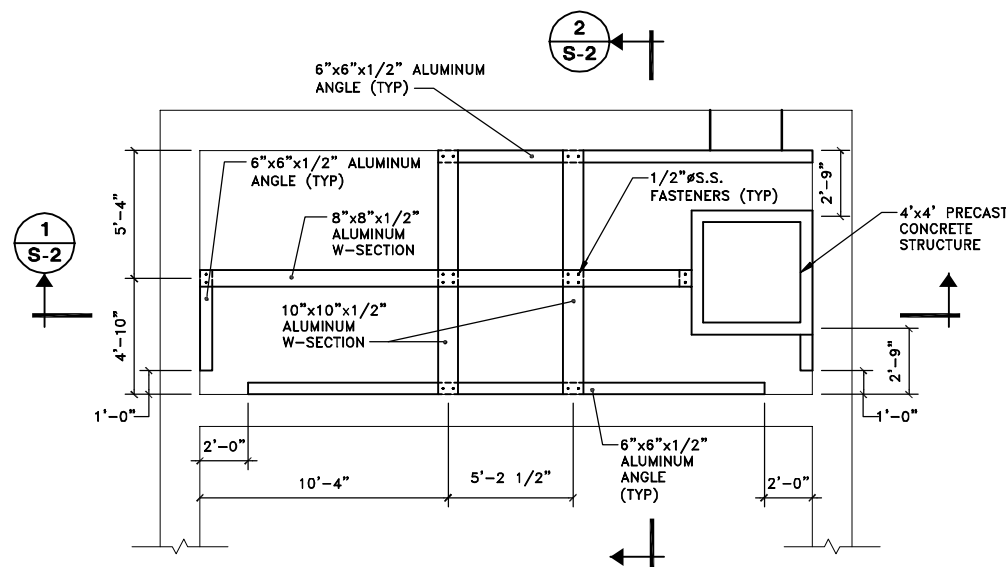
SCALE: 1/4"=1'-0"



SECTION 2-S-2
SCALE: 1/4"=1'-0"

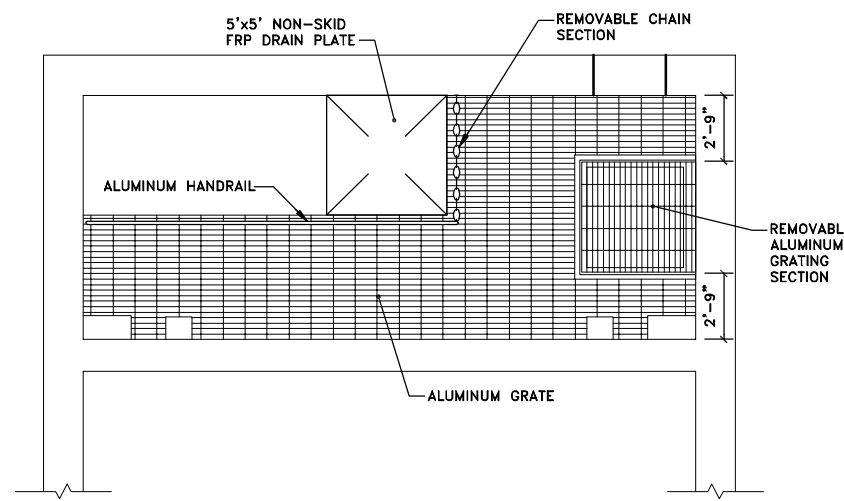
NOTE:

- EXISTING SLUDGE GATE OPERATOR TO BE REMOVED, AND MODIFIED AS REQUIRED TO BE REINSTALLED ONTO THE GRATING AT EL. 365.50'



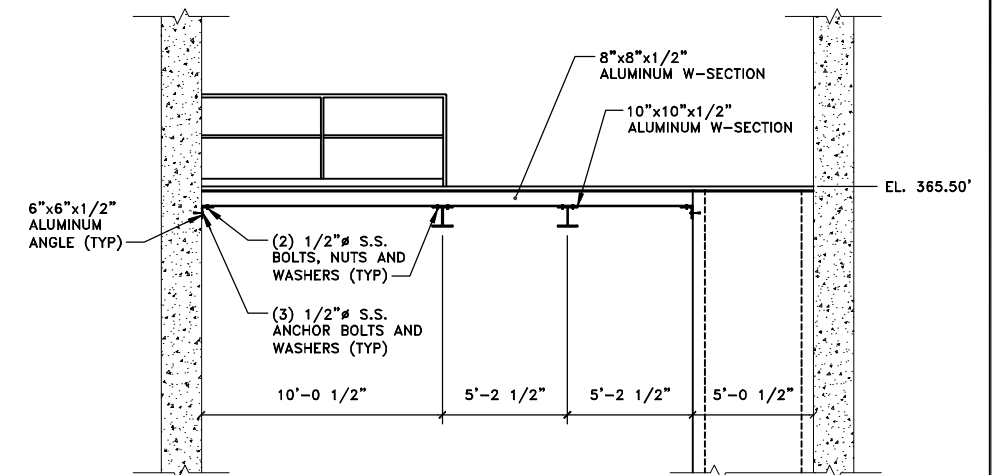
FRAMING PLAN AT EL. 365.50'

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



GRATING PLAN AT EL. 365.50'

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



SECTION 1-S-2
SCALE: 1/4"=1'-0"

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR PROPER OFF-SITE DISPOSAL OF ALL REMOVED ITEMS.
- ALL CONCRETE SHALL HAVE MINIMUM A 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.
- ALL BEAM LOCATIONS SHALL BE FIELD VERIFIED.
- CONCRETE BEAMS WHICH ARE UNDISTURBED MAY BE USED AS A SUPPORT SYSTEM OF GRATING FLOOR SYSTEM.
- REFER TO MP SECTION ENTITLED "MISCELLANEOUS METALS" FOR ALL ALUMINUM STRUCTURAL SHAPES.
- ALL CONNECTIONS SHALL USE (4) 1/2" S.S. FASTENERS.
- CONTRACTOR SHALL MAKE PROVISIONS TO ALLOW FOR ANY INTERFERENCE FOR THE SLUDGE GATE OPERATOR.

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1/4"=1'-0"				
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Project Mgr. --- JCP
Designed by --- WRH/JDS
Drawn by --- GMS
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
**INFLUENT BUILDING
PLANS AND SECTIONS**
STRUCTURAL

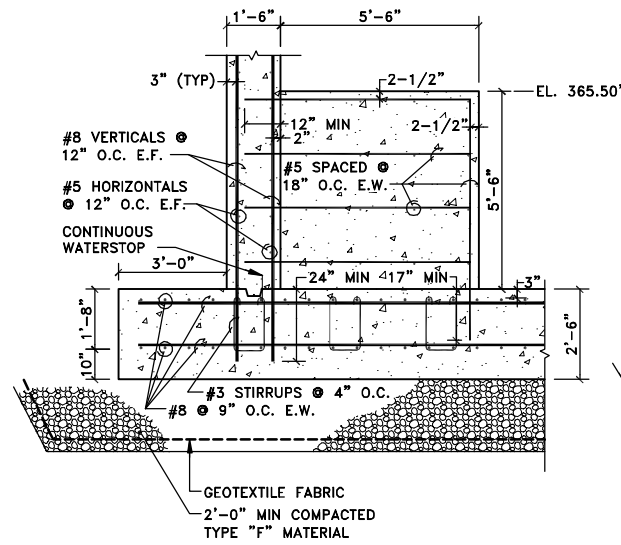
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S-2

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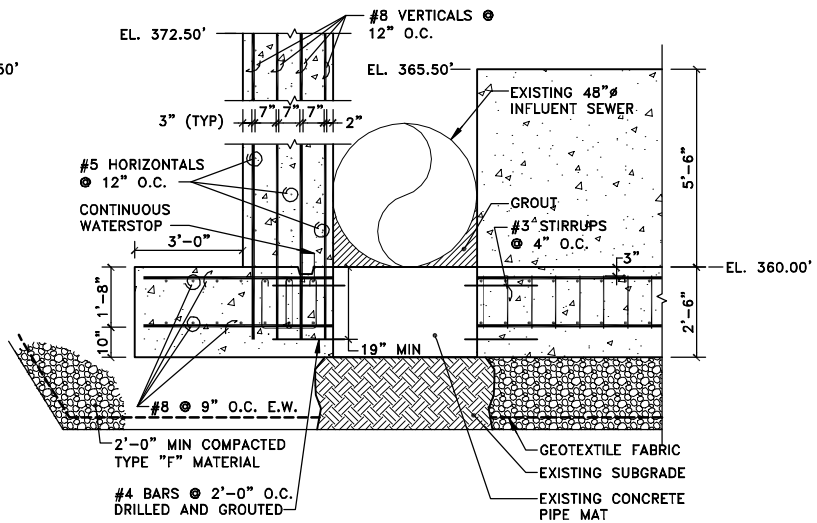
DATE _____ BY _____



FOUNDATION SECTION 1

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

1
S-3

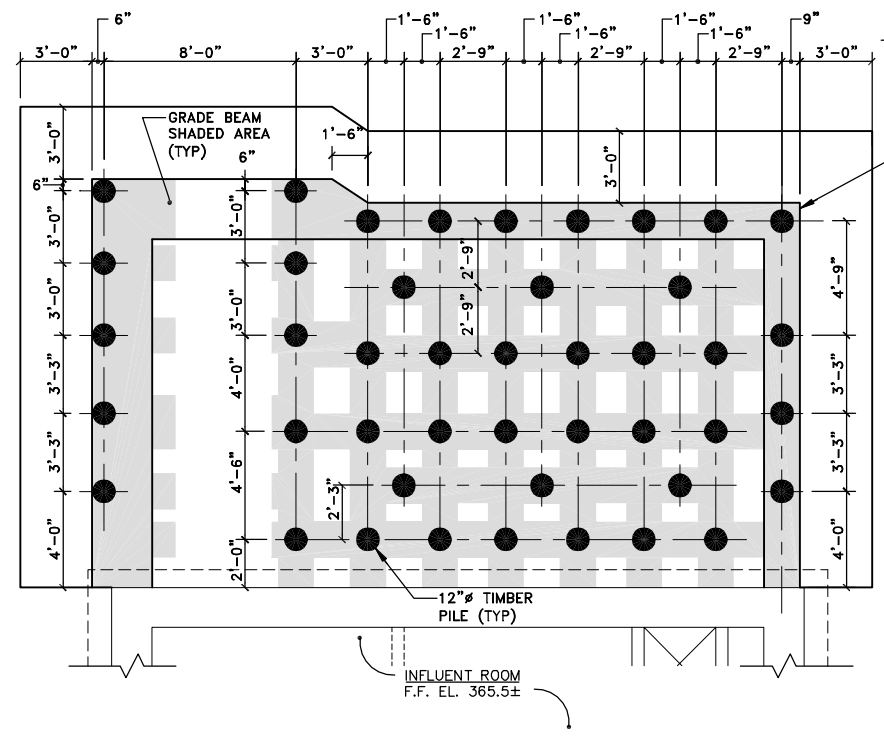


FOUNDATION SECTION 2

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

2
S-3

- NOTES:**
- #8 BARS @ 9" O.C. & #5 BARS @ 12" O.C. TO BE DOWELED AND EPOXY GROUTED INTO EXISTING WALL 15".
 - SLIDE GATE NOT SHOWN FOR CLARITY.
 - PROVIDE HYDROPHILIC WATERSTOP BETWEEN EXISTING PIPE AND MAT AND NEW FOUNDATION WALL.



PILE FOUNDATION PLAN

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

1
S-3

- NOTES:**
- ALL PILES SHALL BE DRIVEN TO A CARRYING CAPACITY OF 15 TONS PER PILE FOR WOOD PILES AND 30 TONS PER PILE FOR CONCRETE PILES.
 - CUT-OFF ELEVATION FOR ALL PILES SHALL BE 358.00'.
 - PILE PLANS ARE SHOWN FOR WOOD PILES ONLY.
 - WOODEN PILES SHALL BE DRIVEN TO AN APPROXIMATE DEPTH OF 30 FEET.
 - ALL GRADE BEAMS ARE SHOWN ON THE DRAWING. ALL GRADE BEAMS SHALL EXTEND THE FULL DEPTH OF THE FOUNDATION SLAB AND CONTAIN #3 STIRRUPS FOR SHEAR REINFORCEMENT SPACED AT 9" O.C. AS SHOWN IN THE FOUNDATION SECTIONS.
 - ALL GRADE BEAMS SHALL BE CENTERED ON THEIR ADJACENT PILES.

X: 00365X00DWG, 00365X02.DWG
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Project Mgr. --- JCP
Designed by --- JDS/WRH
Drawn by --- GMS
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

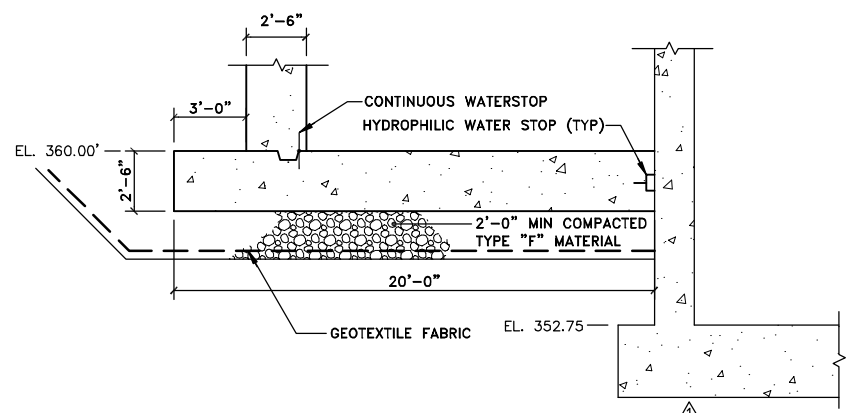
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**INFLUENT BUILDING ADDITION FOUNDATION
PLANS, SECTIONS, ELEVATIONS AND DETAILS**

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

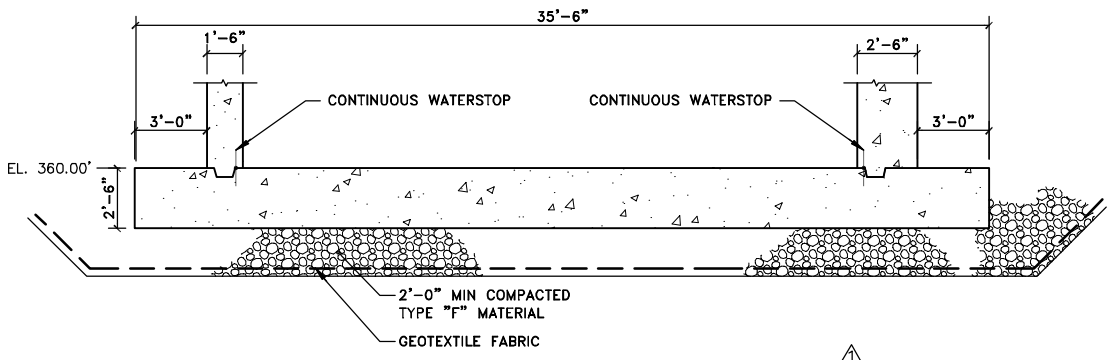
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S-3



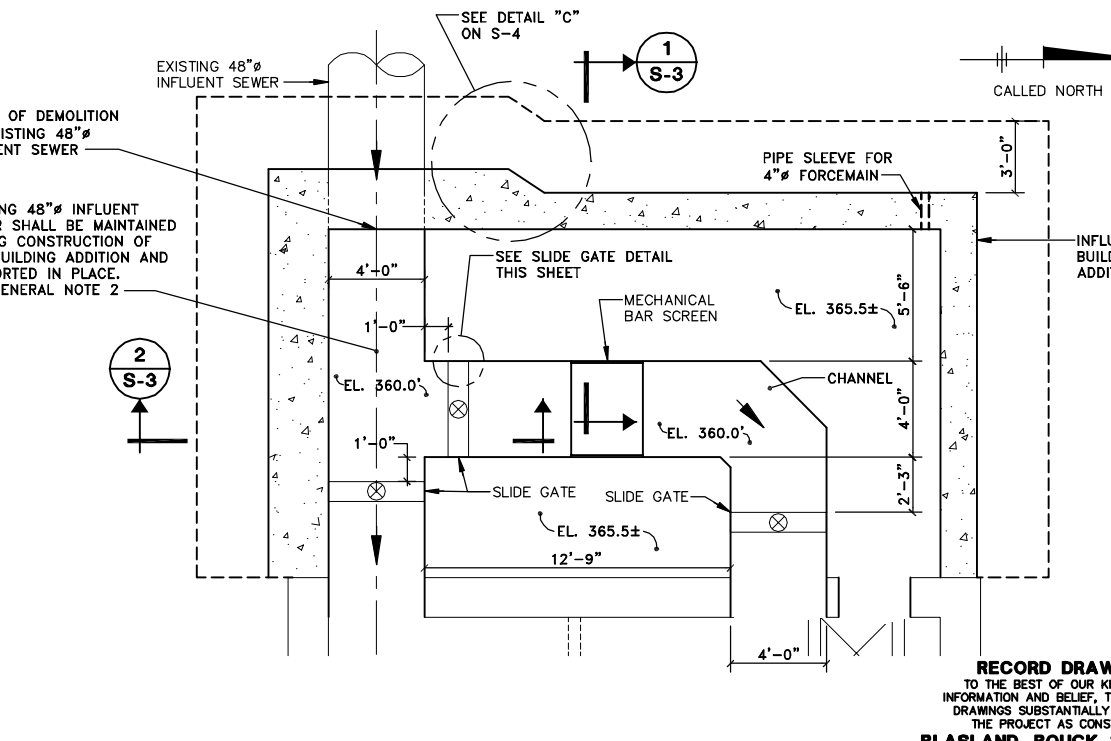
SOUTH FOUNDATION ELEVATION

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



WEST FOUNDATION ELEVATION

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

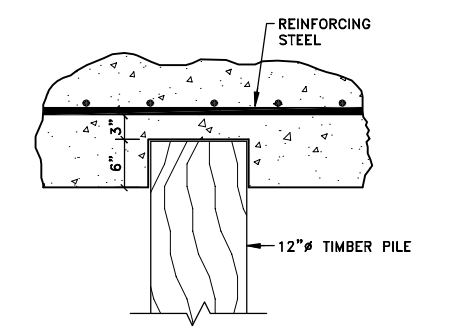


PLAN AT EL. 365.50'

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

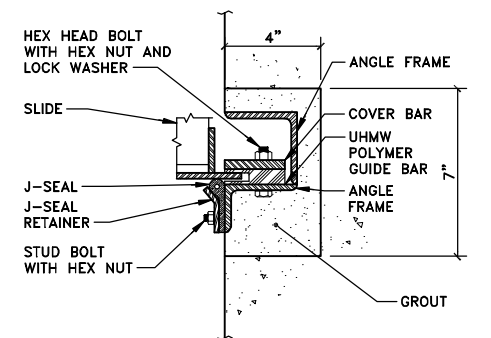
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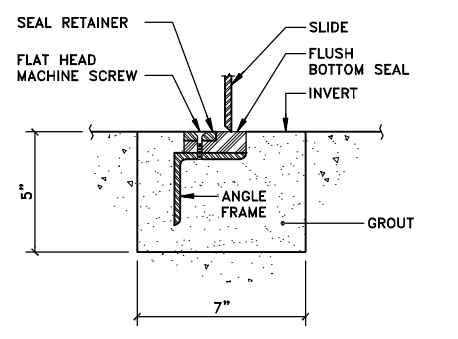


TYPICAL PILE SEAT DETAIL

SCALE: 1"=1'-0"



SIDE SECTION



**INVERT SECTION
SLIDE GATE DETAIL**

NOT TO SCALE

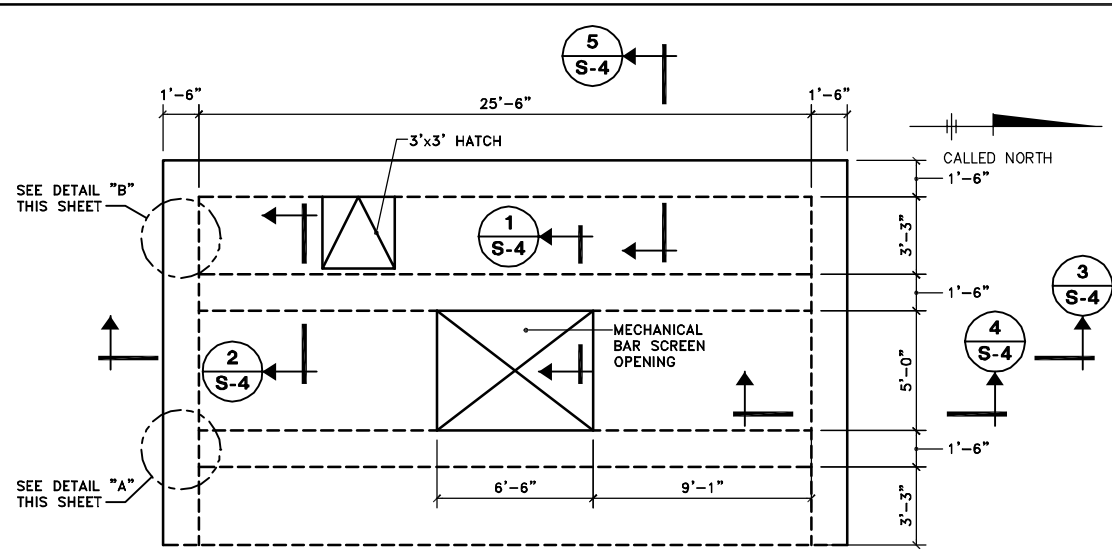
- NOTE:**
- DIMENSIONS SHOWN WILL VARY BASED ON SLIDE GATE MANUFACTURER.

GENERAL NOTE:

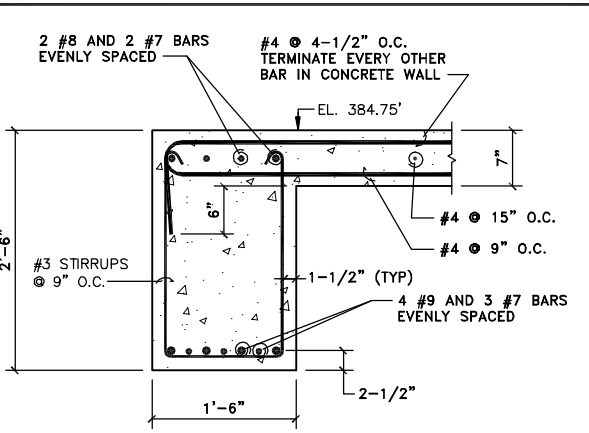
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.
- AFTER COMPLETION OF THE BUILDING ADDITION THE TOP OF THE EXISTING 48" INFLUENT SEWER SHALL BE REMOVED ALONG WITH THE PORTION OF THE PIPE ADJACENT TO THE NEW MECHANICAL BAR SCREEN CHANNEL AND THE BYPASS BAR SCREEN CHANNEL SLIDE GATE. ALL TRANSITIONS BETWEEN THE EXISTING PIPE TO REMAIN AND THE NEW CONCRETE CHANNEL SHALL BE PROVIDED WITH A SMOOTH TRANSITION. ALL VOIDS AROUND EXISTING PIPE SHALL BE FILLED WITH A NON-SHRINK GROUT.

(RECORD DRAWING: MADE FROM DRAWING NO. S-3, TRACER NO. 00365020/DAVIS/00365S03.DWG, DATED 3/9/99)

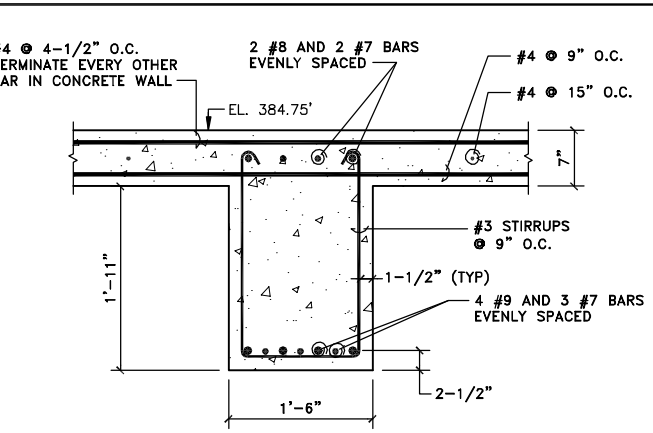
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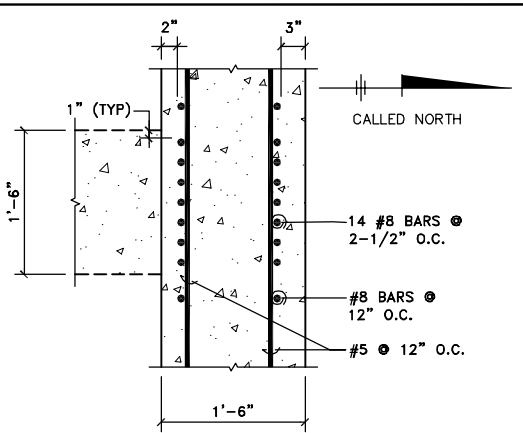
PLAN AT EL 384.75'
SCALE: 1/4"=1'-0"



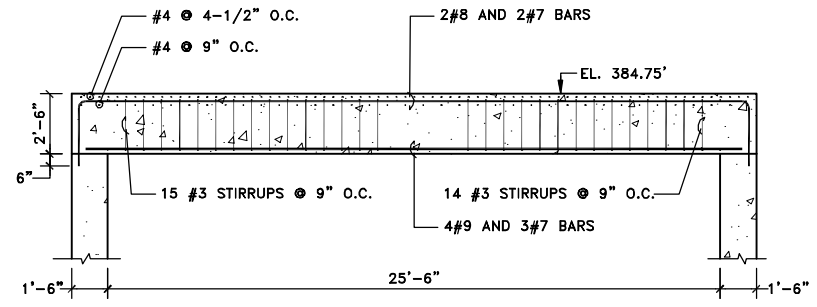
SECTION 1
SCALE: 1"=1'-0"



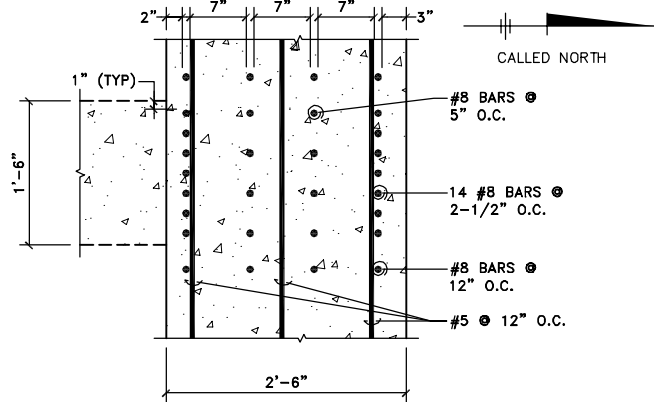
SECTION 2
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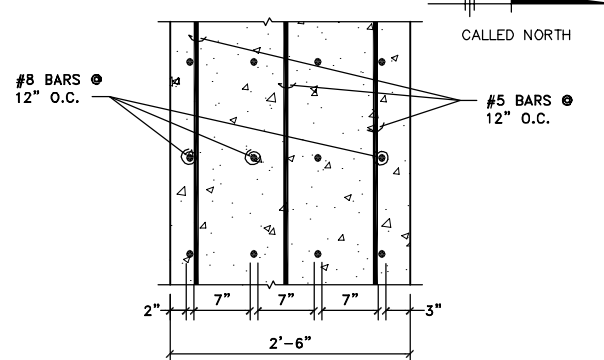
DETAIL A AT EL. 380.0'
SCALE: 1"=1'-0"



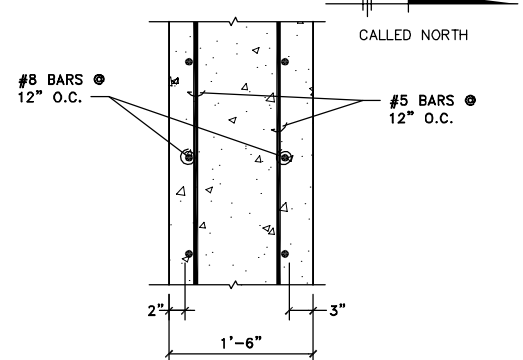
FLOOR BEAM SECTION 3
SCALE: 1/4"=1'-0"



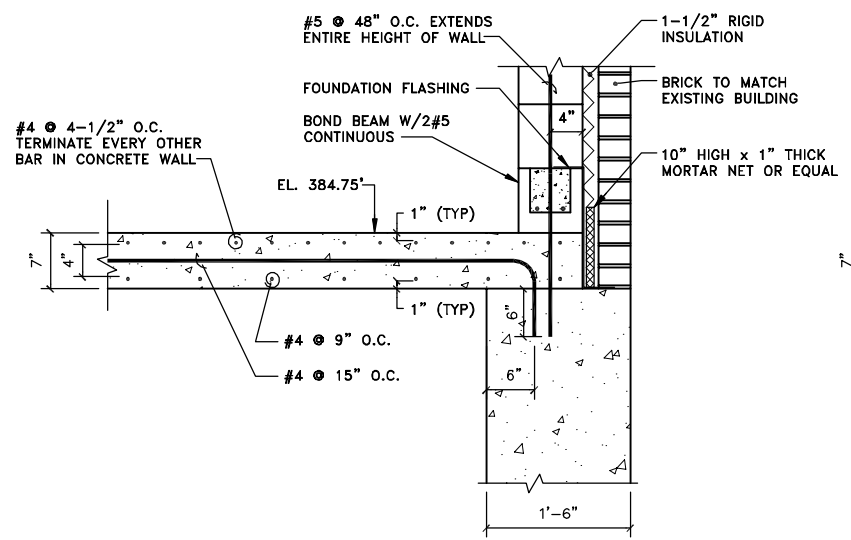
DETAIL A AT EL. 372.50'
SCALE: 1"=1'-0"



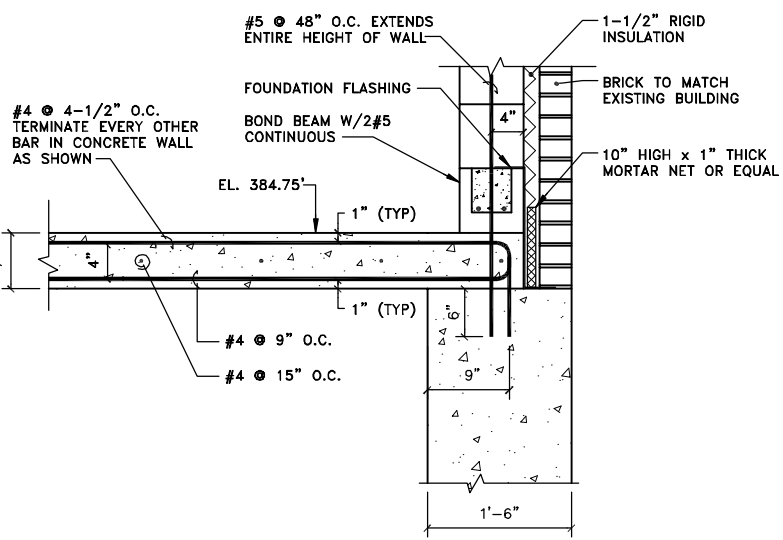
DETAIL B AT EL. 372.50'
SCALE: 1"=1'-0"



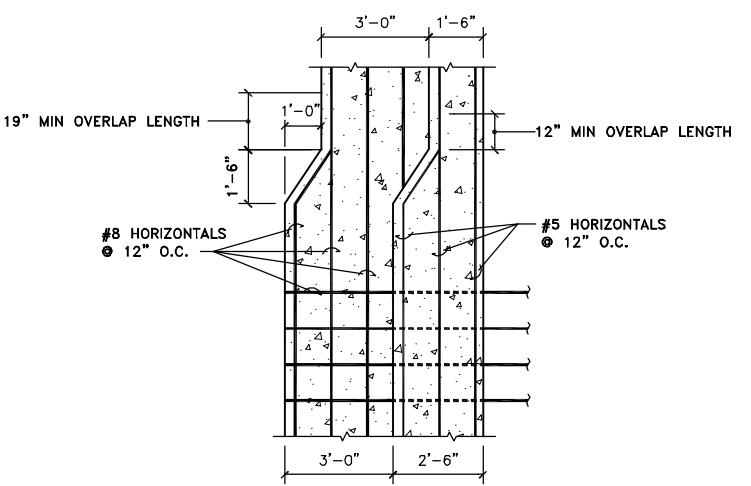
DETAIL B AT EL. 380.0'
SCALE: 1"=1'-0"



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



SECTION 5
SCALE: 1"=1'-0"



DETAIL C
PLAN AT FOUNDATION TRANSITION
SCALE: 3/8"=1'-0"

GENERAL NOTE:
1. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.

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No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr. JCP
Designed by JDS/WRH
Drawn by GMS
Checked by JCP
Prof. Eng. DONALD GEISSER
PE License N.Y. 57879

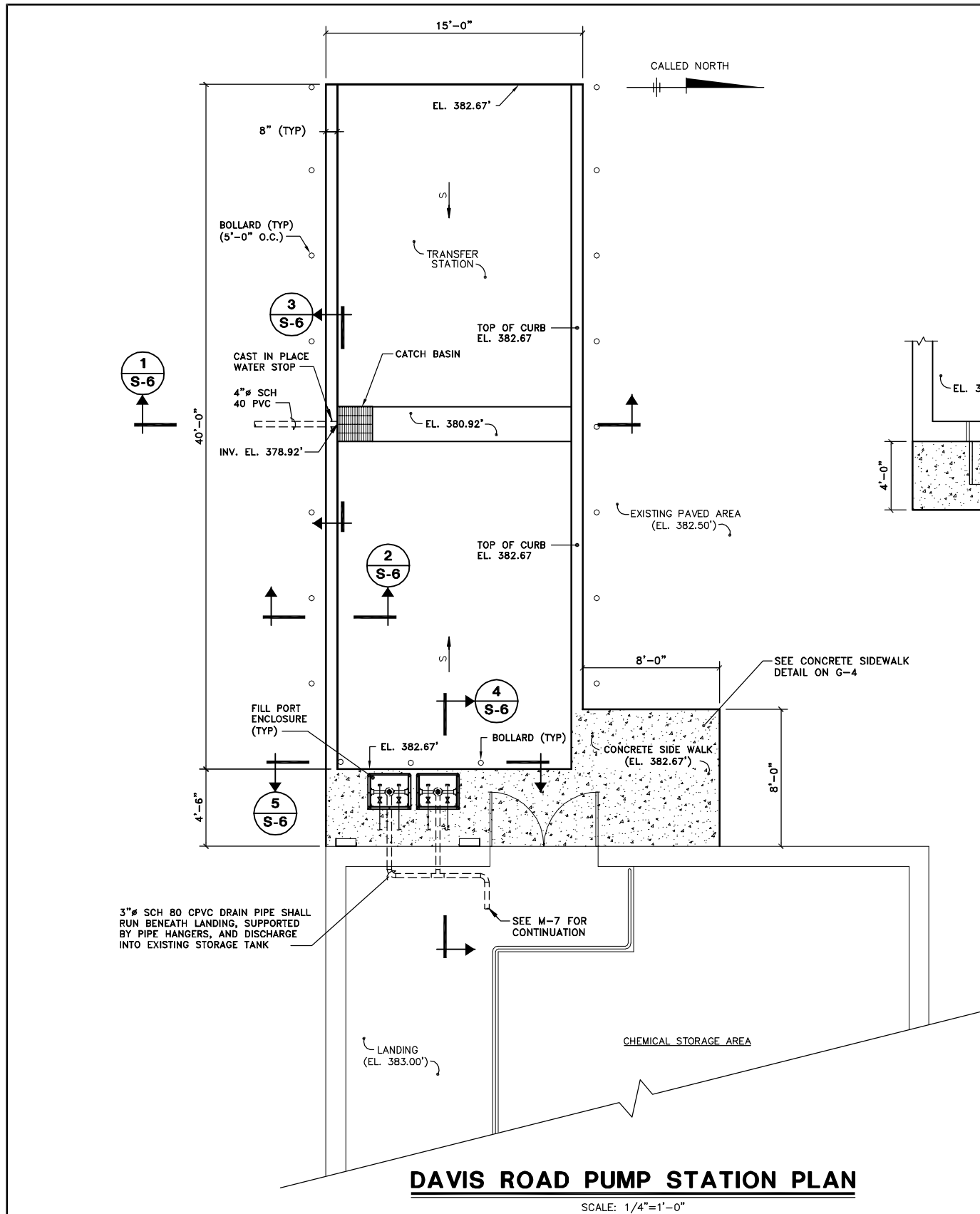
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
INFLUENT BUILDING ADDITION
PLAN, SECTIONS AND DETAILS
STRUCTURAL

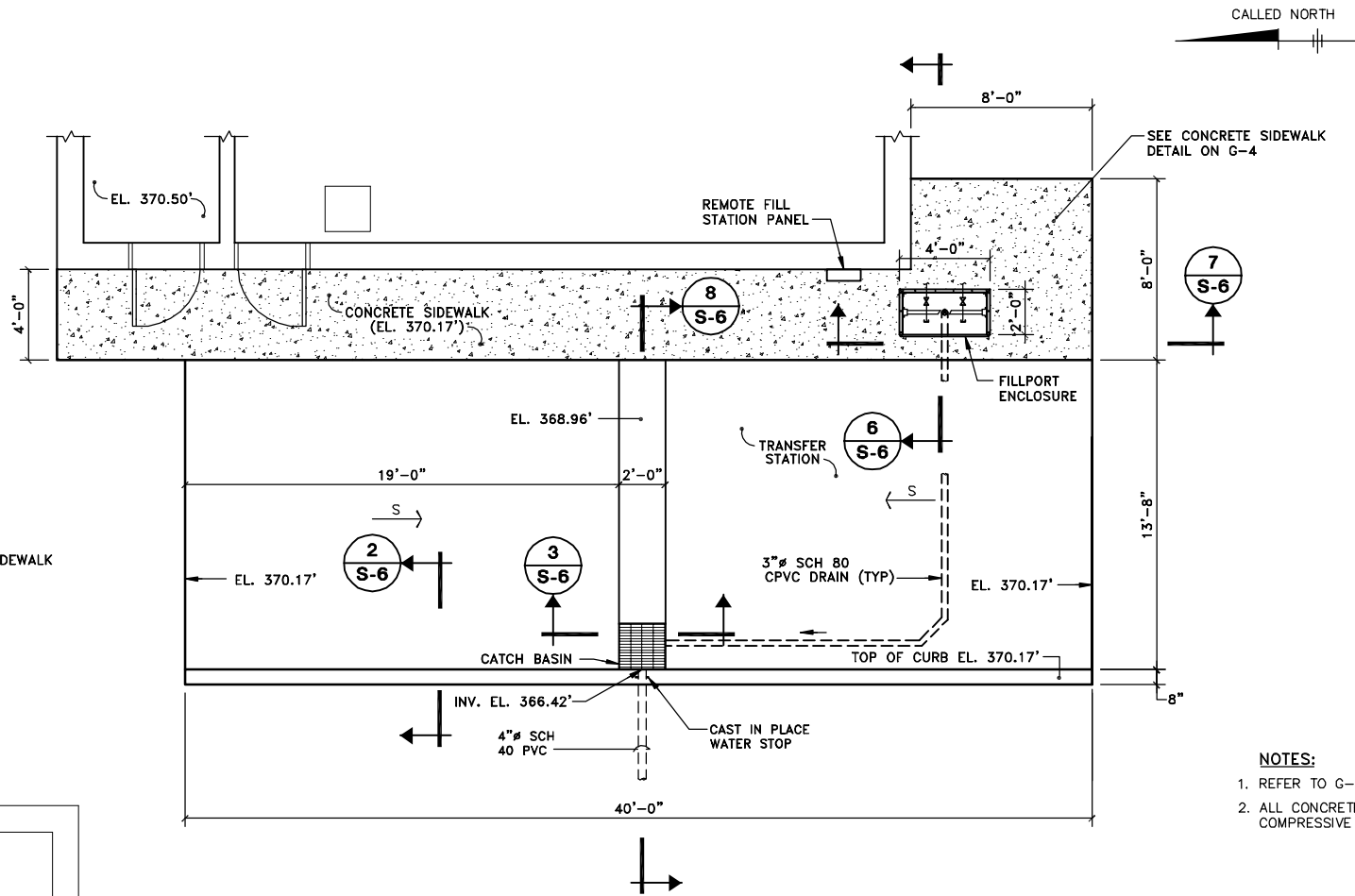
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Syracuse, NY 13214
315-446-9120

S-4



DAVIS ROAD PUMP STATION PLAN

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



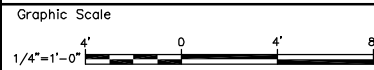
GASKIN ROAD PUMP STATION PLAN

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

NOTES:

1. REFER TO G-1 AND G-2 FOR SITE ORIENTATION.
2. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.

X: 00364X000DWG, 00364X01.DWG
 L: ON=*, OFF=REF
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No.	Date	Revisions	Init

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Drawn by --- AK ---
Checked by --- JCP ---
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 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD AND GASKIN ROAD PUMP STATIONS

TRANSFER STATION PLANS

STRUCTURAL

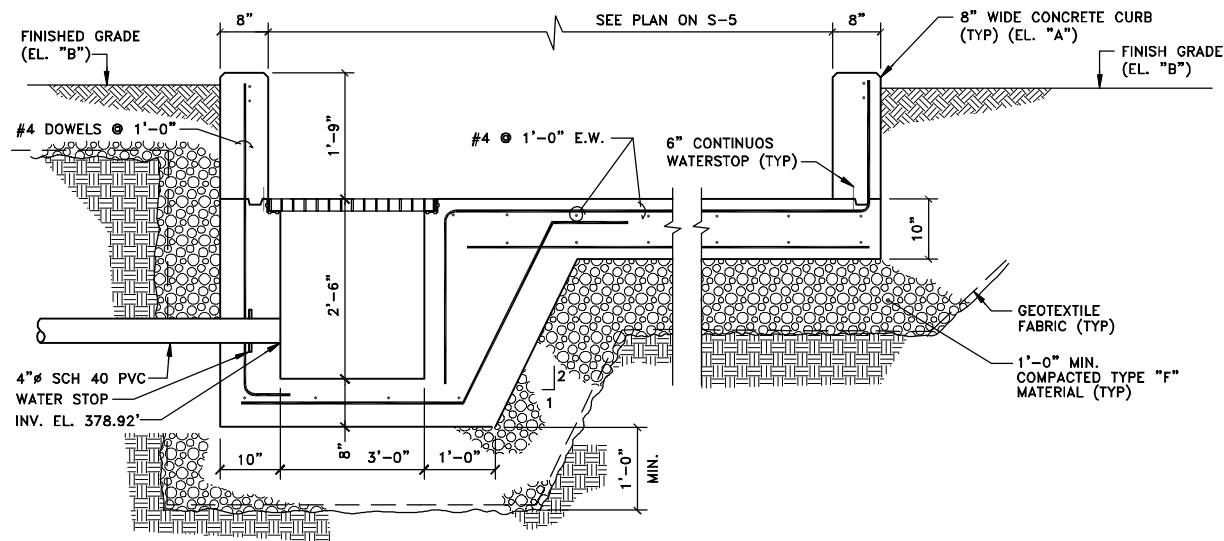
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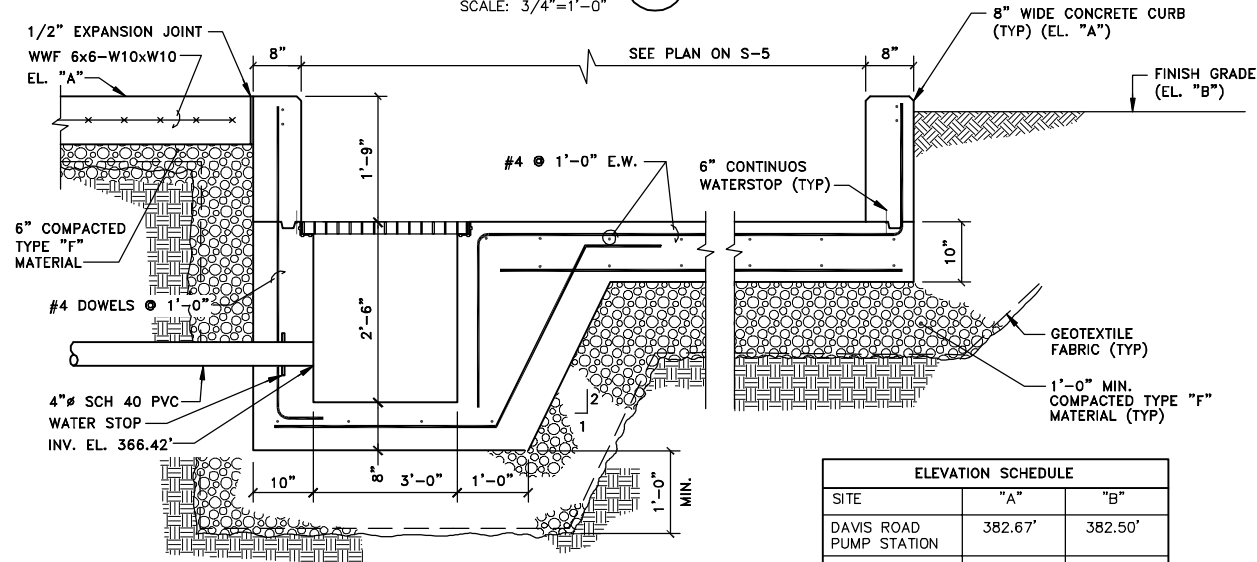
Date
AUGUST 2002

Blasland, Bouck & Lee, Inc.
 Corporate Headquarters
 6723 Towpath Road
 Syracuse, NY 13214
 315-446-9120

S-5

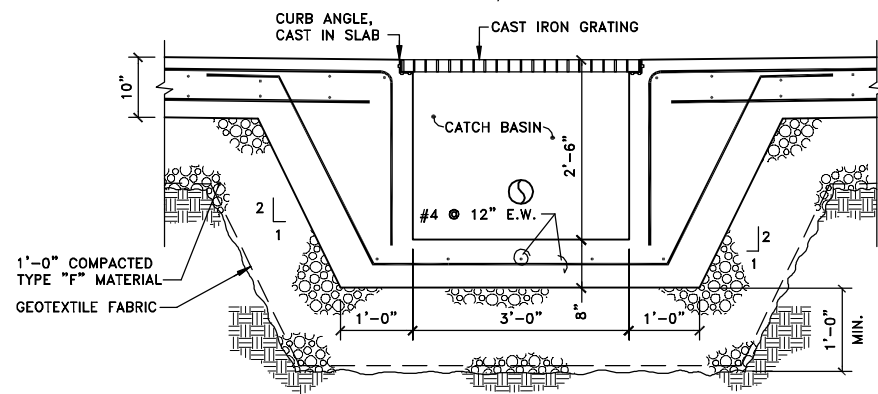


SECTION 1
S-5
SCALE: 3/4"=1'-0"

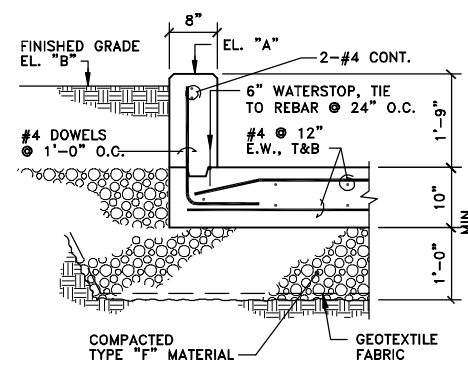


SECTION 8
S-5
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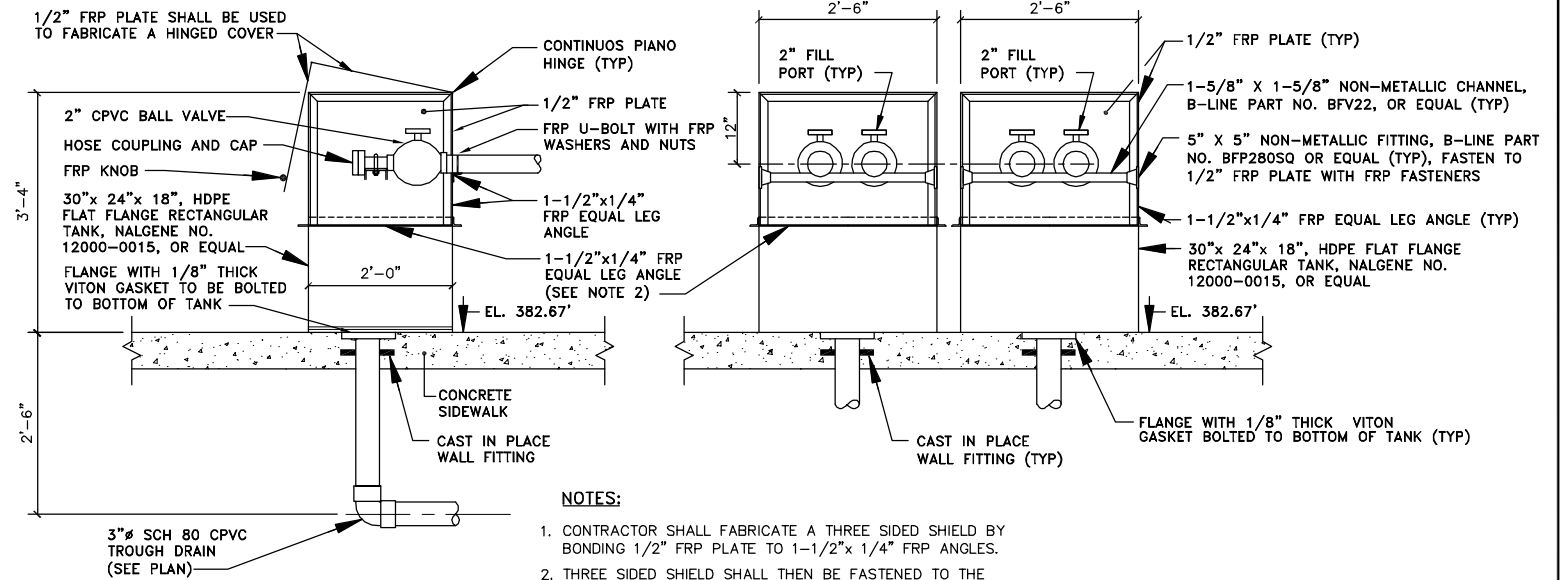
ELEVATION SCHEDULE		
SITE	"A"	"B"
DAVIS ROAD PUMP STATION	382.67'	382.50'
GASKIN ROAD PUMP STATION	370.17'	370.00'



SECTION 3
S-5
SCALE: 3/4"=1'-0"

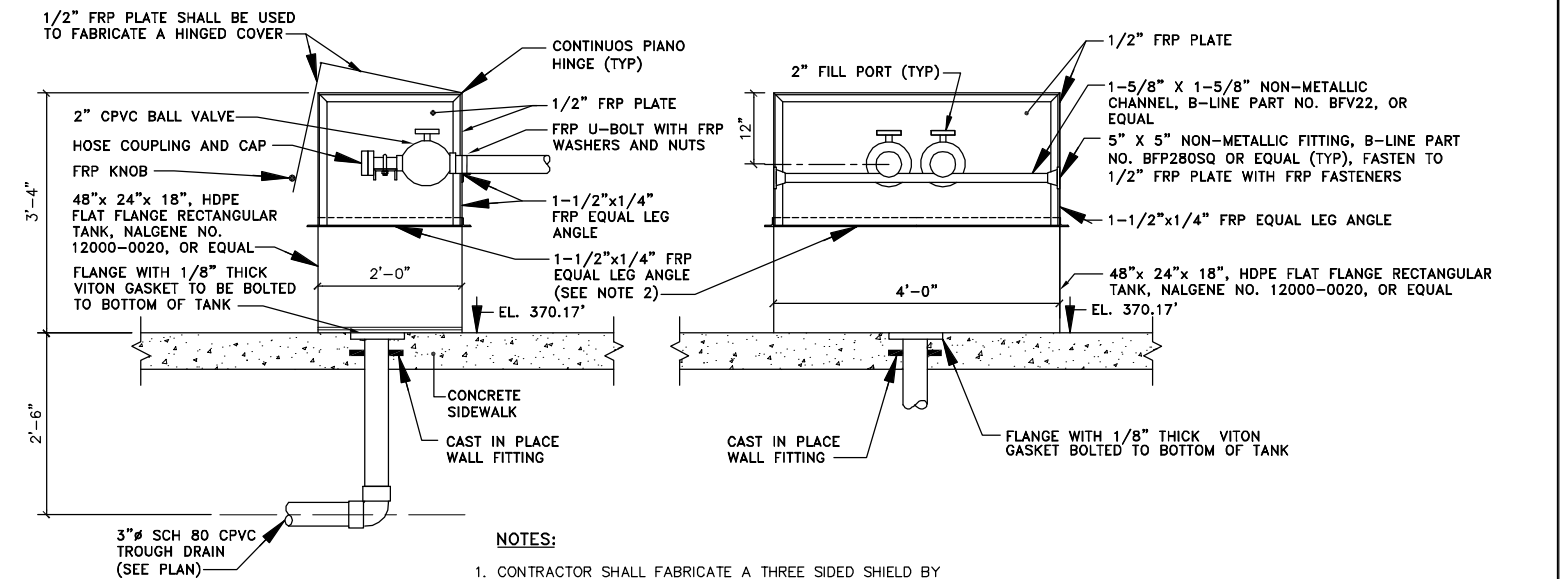


SECTION 2
S-5
SCALE: 3/4"=1'-0"



SECTION 4
S-5
SCALE: 3/4"=1'-0"

- NOTES:**
- CONTRACTOR SHALL FABRICATE A THREE SIDED SHIELD BY BONDING 1/2" FRP PLATE TO 1-1/2"x 1/4" FRP ANGLES.
 - THREE SIDED SHIELD SHALL THEN BE FASTENED TO THE FLAT-FLANGE RECTANGULAR TANK USING FRP FASTENERS AT 8" O.C. WITH A 1/8" THICK VITON GASKET.
 - B-LINE SERIES 501, OR EQUAL, GLASS FIBER REINFORCED POLYURETHANE U-BOLTS SHALL BE USED TO SECURE THE FILL PIPE TO THE HORIZONTAL BRACING.



SECTION 6
S-5
SCALE: 3/4"=1'-0"

- NOTES:**
- CONTRACTOR SHALL FABRICATE A THREE SIDED SHIELD BY BONDING 1/2" FRP PLATE TO 1-1/2"x 1/4" FRP ANGLES.
 - THREE SIDED SHIELD SHALL THEN BE FASTENED TO THE FLAT-FLANGE RECTANGULAR TANK USING FRP FASTENERS AT 8" O.C. WITH A 1/8" THICK VITON GASKET.

SECTION 7
S-5
SCALE: 3/4"=1'-0"

- GENERAL NOTE:**
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

X: 00364X00.DWG, 00364X01.DWG
L: ON=*, OFF=REF
P: PAGESET: CDL
8/13/02 SYR-54-GMS DJP
00365020/RECORD/DAVIS/00365S06.DWG

Graphic Scale	No.	Date	Revisions	Init
1/4"=1'-0"				
3/4"=1'-0"				
1"=1'-0"				

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

No.	Date	Revisions	Init

Project Mgr. --- JCP
Designed by --- WFF
Drawn by --- GMS
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

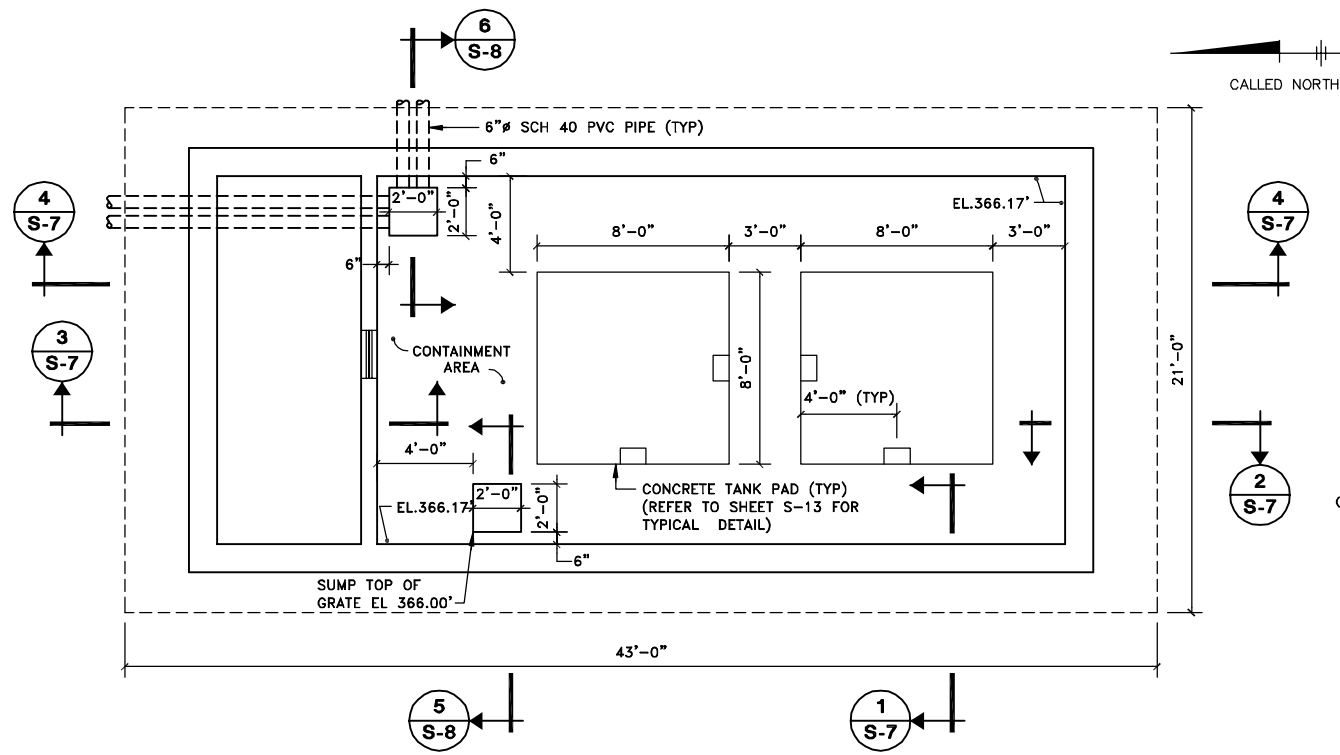
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD AND GASKIN ROAD PUMP STATION
TRANSFER STATION
SECTIONS
STRUCTURAL

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

S-6

(RECORD DRAWING: MADE FROM DRAWING NO. S-6, TRACER NO. 00365020/DAVIS/0365S06.DWG, DATED 1/28/99)

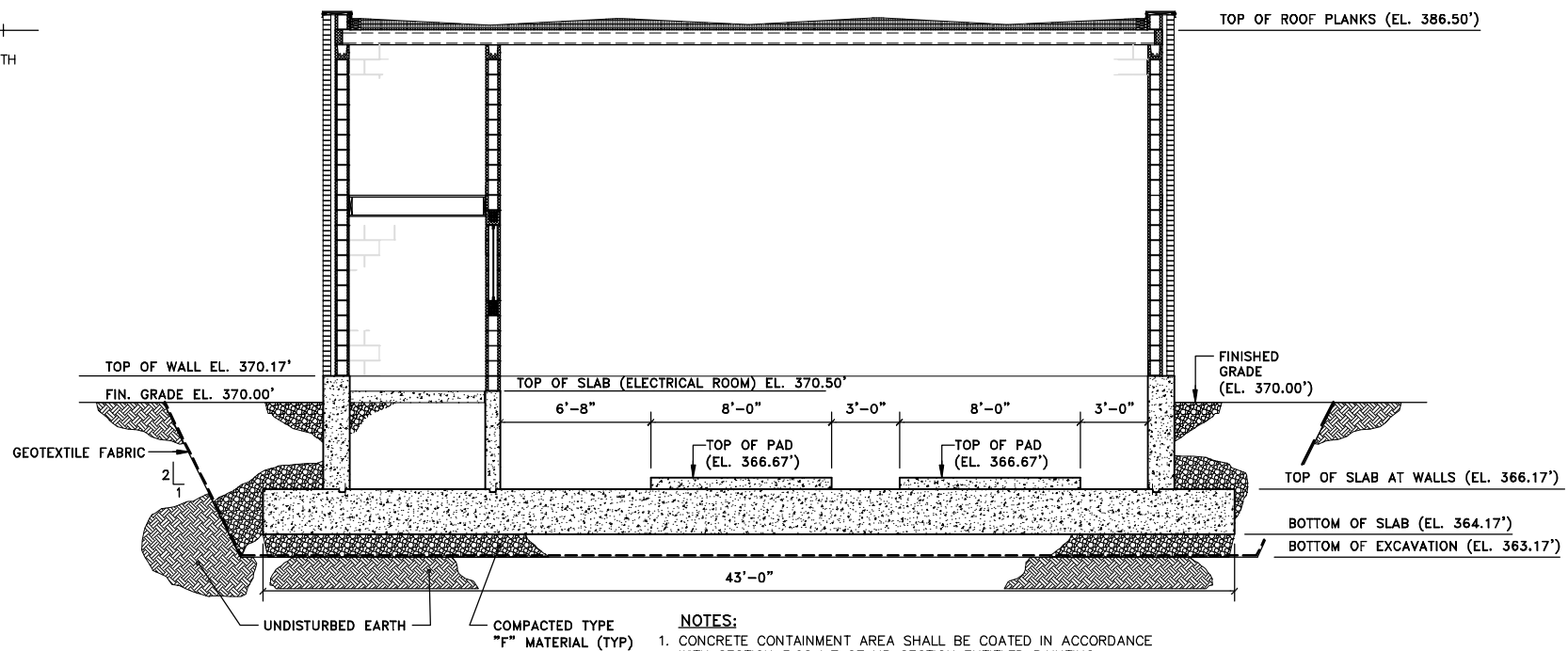
DATE _____ BY _____



NOTE:
SLOPE FLOOR TOWARD SUMP AT 1/8" PER FOOT.

FOUNDATION PLAN

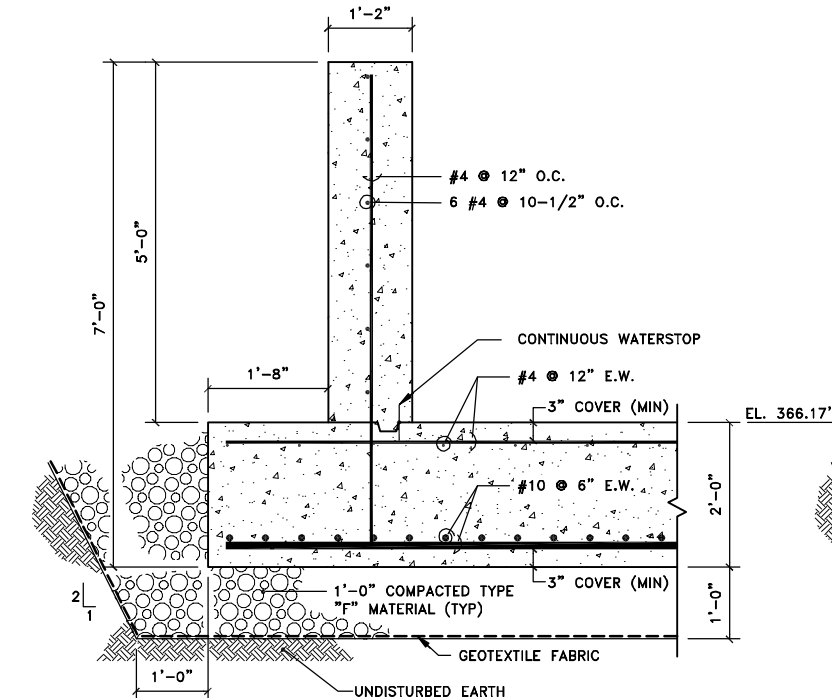
SCALE: 1/4"=1'-0"



- NOTES:
1. CONCRETE CONTAINMENT AREA SHALL BE COATED IN ACCORDANCE WITH SECTION 3.08.A.7 OF MP SECTION ENTITLED PAINTING.
 2. ALL OTHER INTERIOR SECTIONS TO BE COATED IN ACCORDANCE WITH THE APPLICABLE SECTION OF MP SECTION ENTITLED PAINTING.

SECTION 4

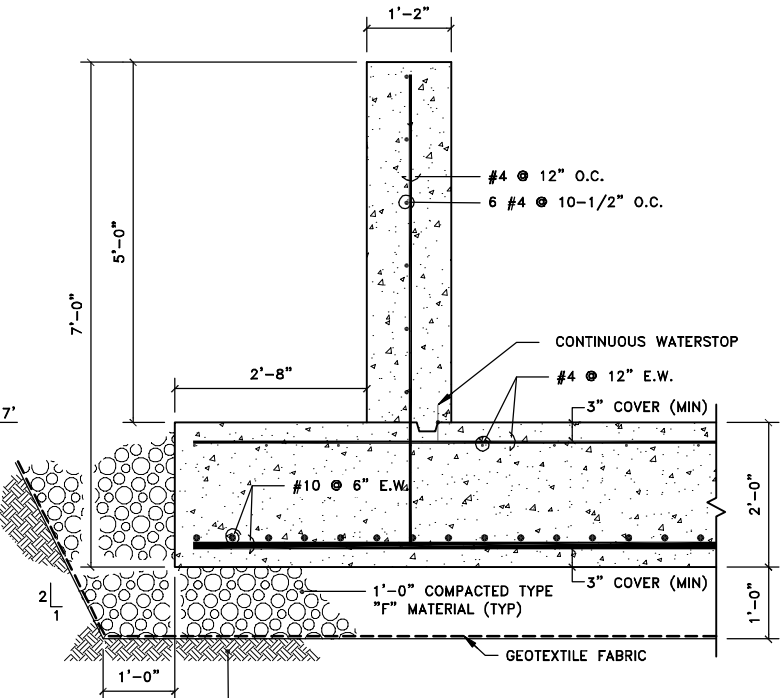
SCALE: 1/4"=1'-0"



FOUNDATION AND TANK SLAB SECTION 1

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

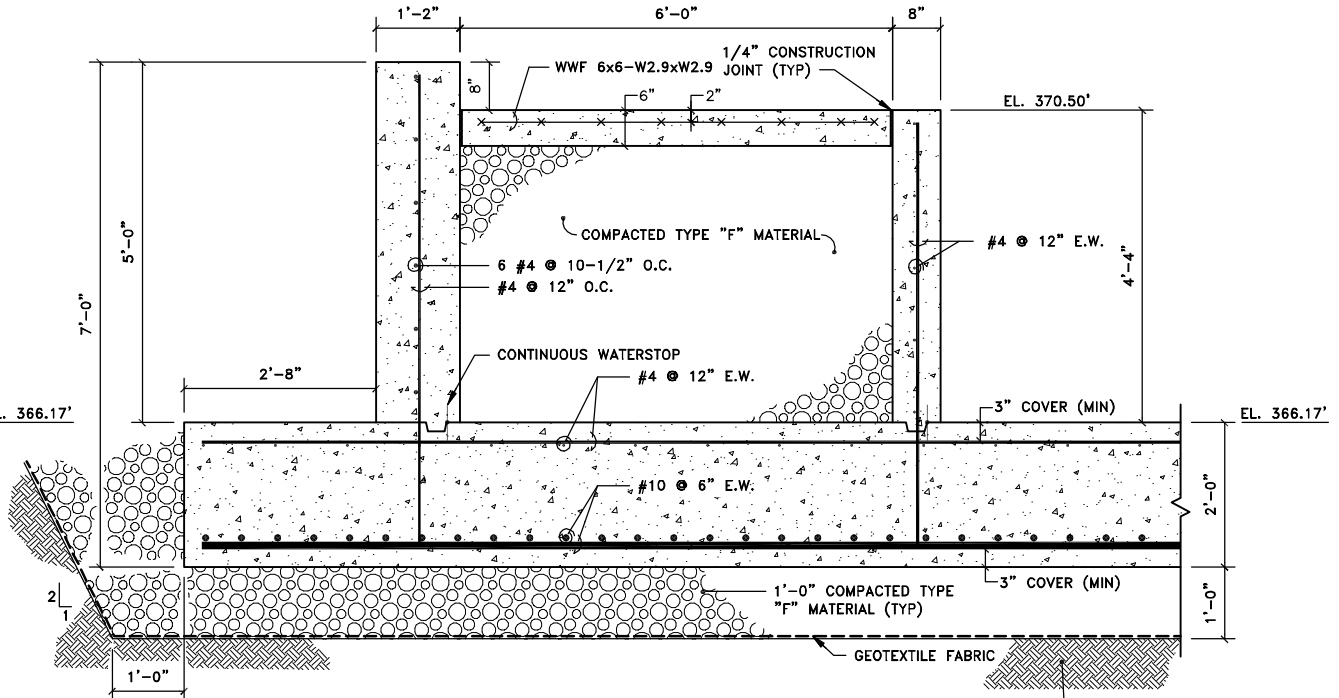
1
S-7



WALL SECTION 2

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

2
S-7



WALL SECTION 3

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

3
S-7

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BLASLAND, BOUCK & LEE, INC.

GENERAL NOTE:
1. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY
COMPRESSIVE STRENGTH OF 4000 P.S.I.

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00365020/RECORD/GASKIN/00365S07.DWG

(RECORD DRAWING: MADE FROM DRAWING NO. S-7, TRACER NO. 00365020/GASKIN/00365S07.DWG, DATED 1/28/99)

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No.	Date	Revisions	Init

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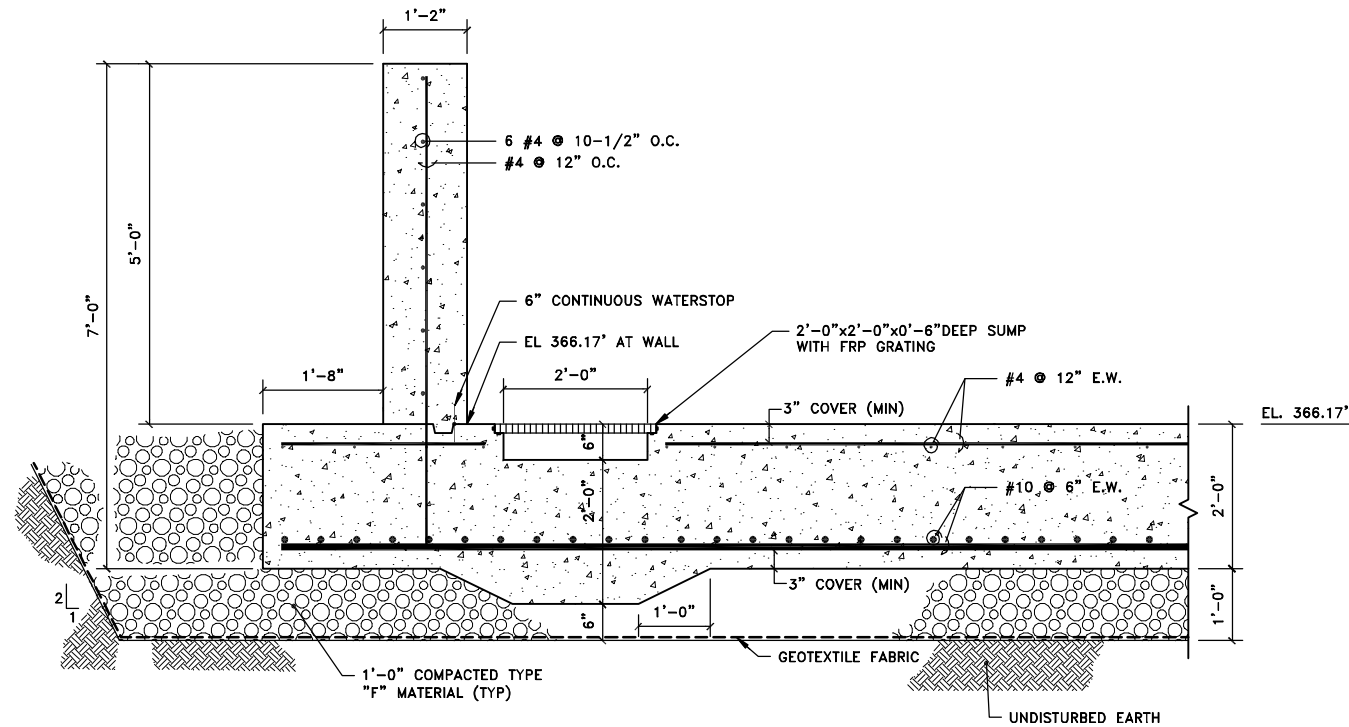
Project Mgr. --- JCP ---
Designed by --- JDS/WRH ---
Drawn by --- GMS ---
Checked by --- JCP ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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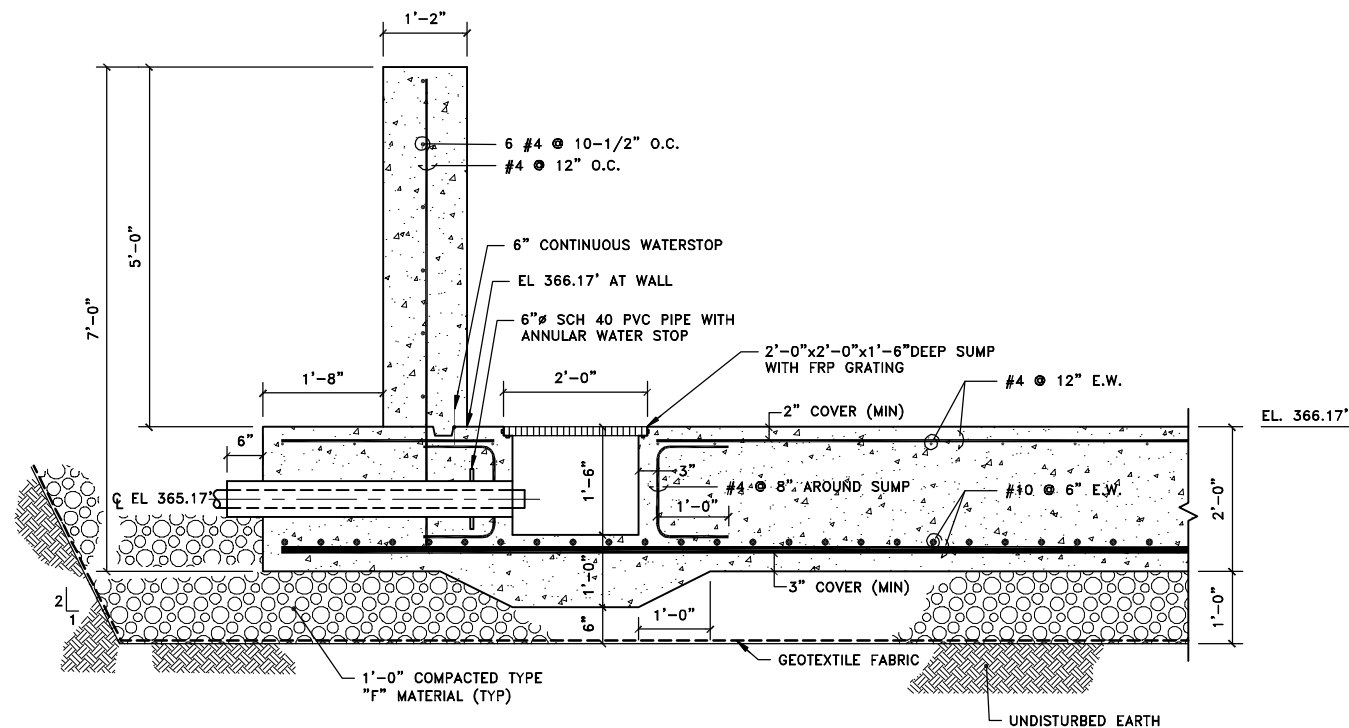
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
CHEMICAL STORAGE BUILDING
FOUNDATION PLAN AND SECTIONS
STRUCTURAL

File Number 003.65.006
Date AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

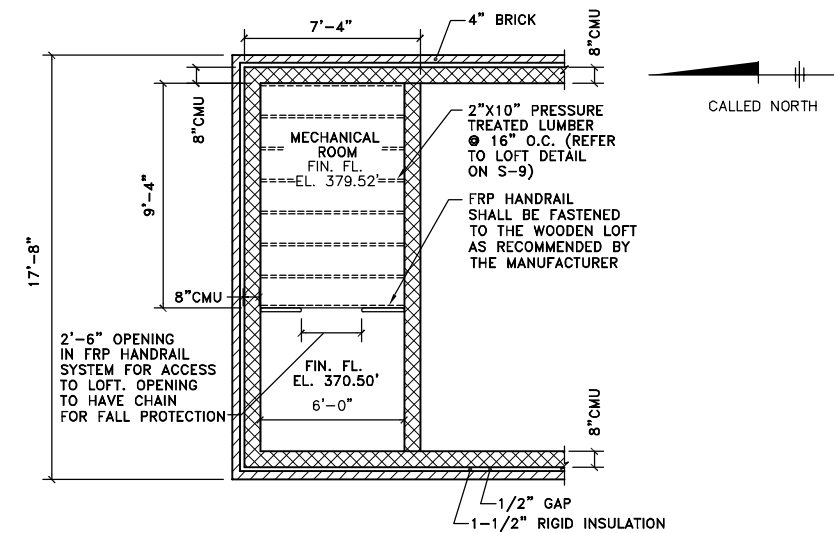
S-7



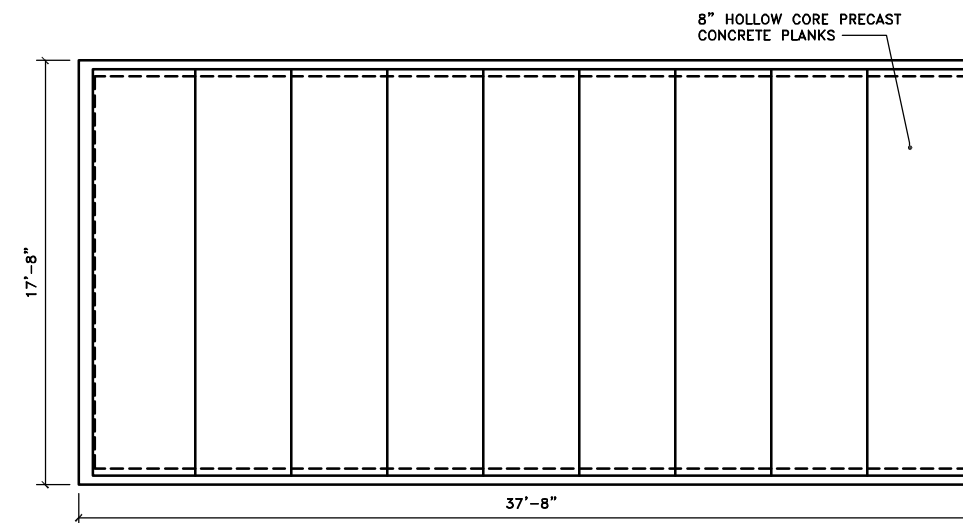
SUMP SECTION 5
SCALE: 3/4"=1'-0"



SUMP SECTION 6
SCALE: 3/4"=1'-0"



LOFT PLAN AT EL. 379.35'
SCALE: 1/4"=1'-0"



NOTE:
1. ALL JOINTS BETWEEN ADJACENT PLANK SECTIONS SHALL BE FULLY GROUTED.

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

GENERAL NOTE:
1. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

X: 00365X00.DWG
L: ON=, OFF=REF*
P: PAGESET: CDL
8/14/02 SYR-54 GMS DJP
00365020/RECORD/GASKIN/00365S08.DWG

No.	Date	Revisions	Init

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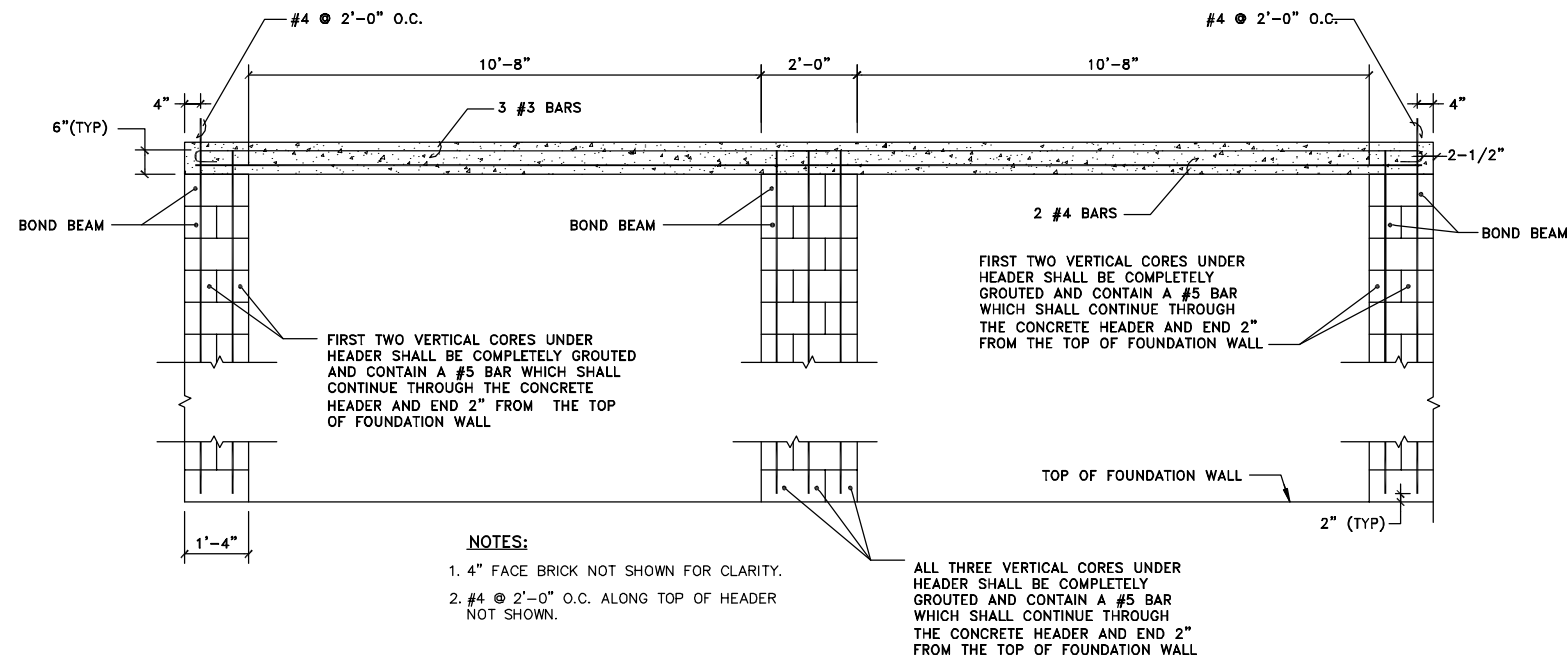
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

**CHEMICAL STORAGE BUILDING
PLANS AND SECTIONS**
STRUCTURAL

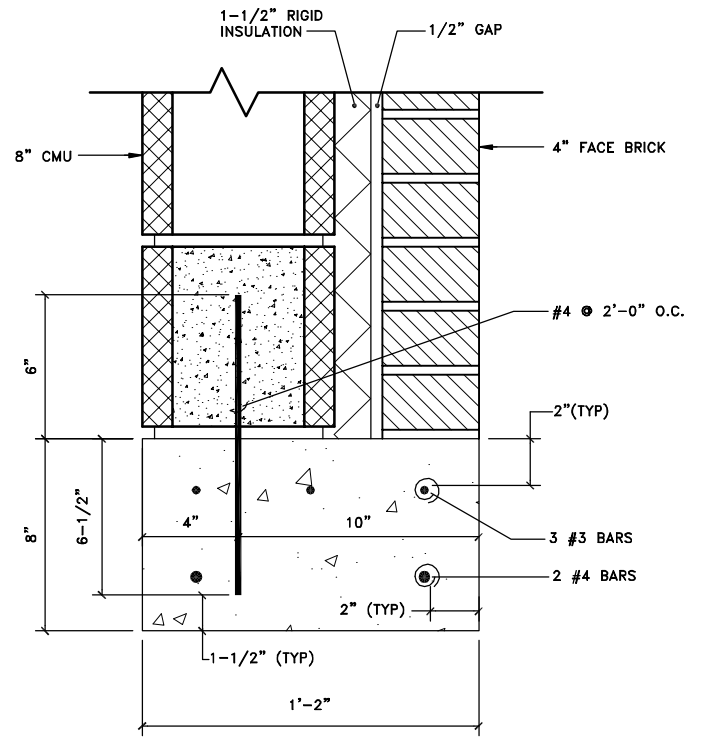
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Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

S-8



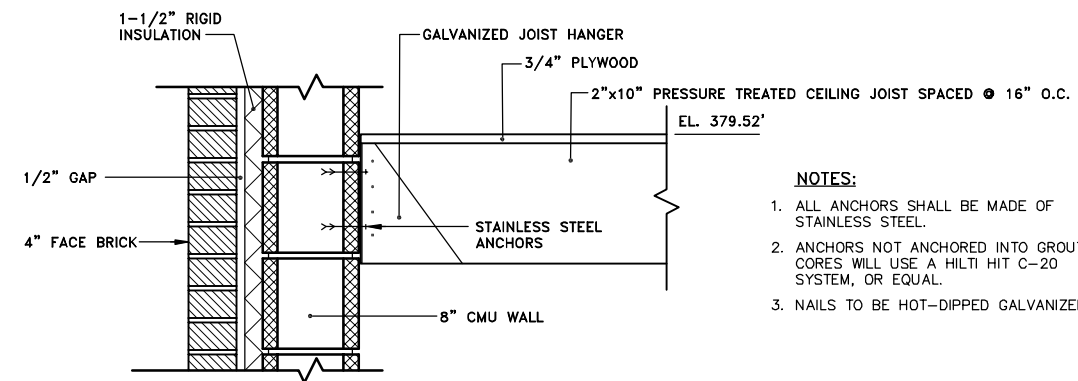
C.I.P. CONCRETE HEADER SECTION 3
A-5

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



SECTION 4 4
A-5

SCALE: 3"=1'-0"



LOFT DETAIL

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

- NOTES:
- ALL ANCHORS SHALL BE MADE OF STAINLESS STEEL.
 - ANCHORS NOT ANCHORED INTO GROUDED CORES WILL USE A HILTI HIT C-20 SYSTEM, OR EQUAL.
 - NAILS TO BE HOT-DIPPED GALVANIZED.

GENERAL NOTE:
 1. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.

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BLASLAND, BOUCK & LEE, INC.

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 00365020/RECORD/GASKIN/00365S09.DWG

No.	Date	Revisions	Init

Project Mgr. --- JCP
Designed by --- JDS/WRH
Drawn by --- KLN
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

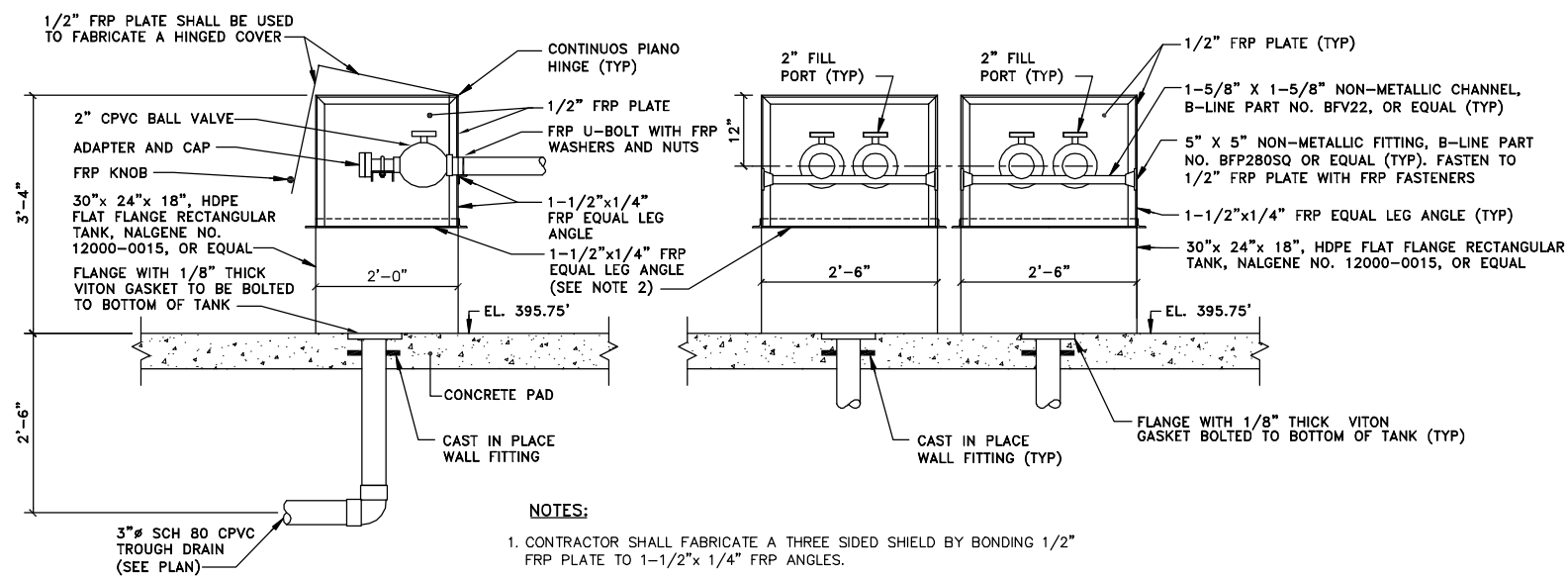
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION
CHEMICAL STORAGE BUILDING
SECTIONS AND DETAIL
 STRUCTURAL

File Number
 003.65.006
 Date
 AUGUST 2002
 Blasland, Bouck & Lee, Inc.
 Corporate Headquarters
 6723 Towpath Road
 Syracuse, NY 13214
 315-446-9120

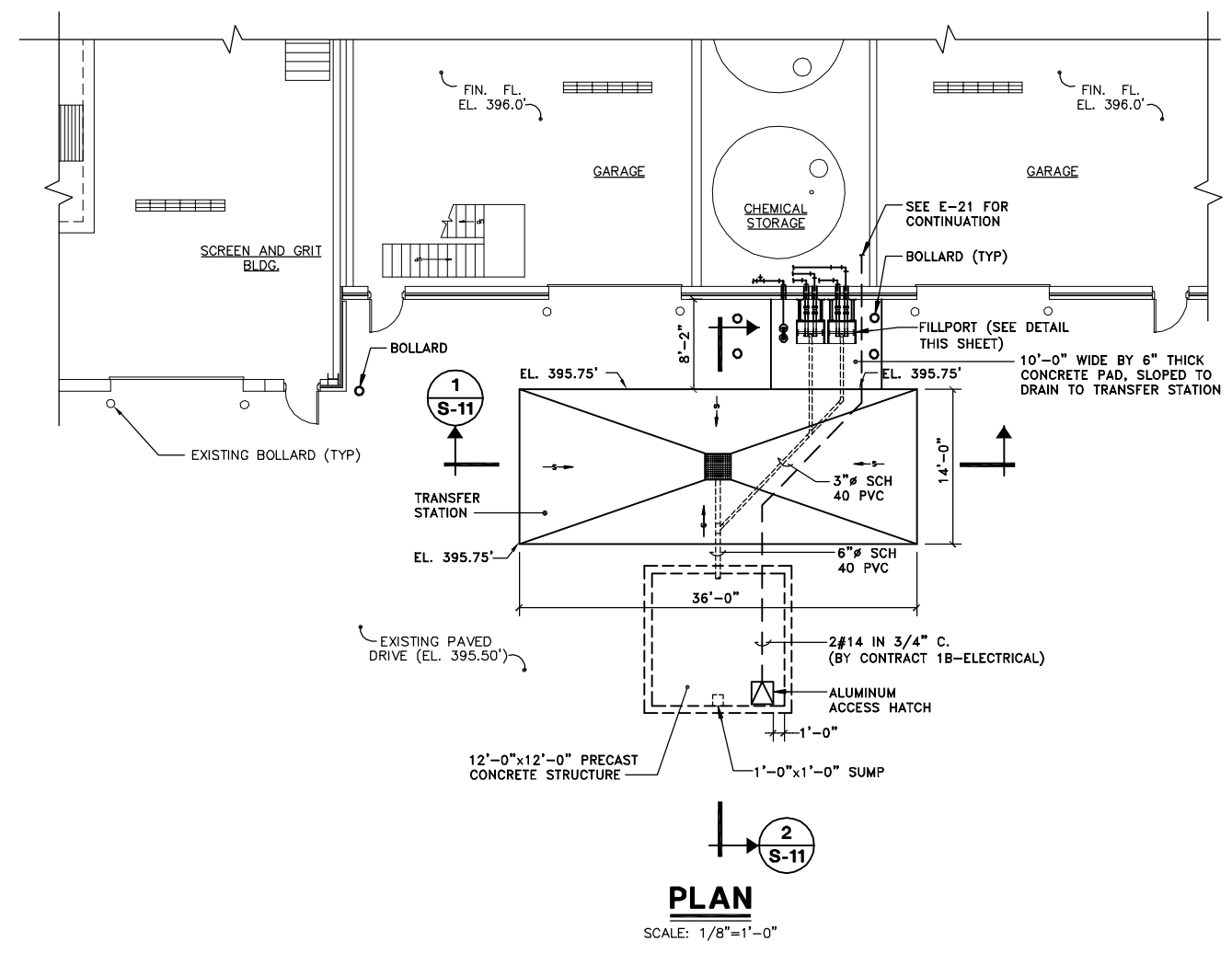
S-9



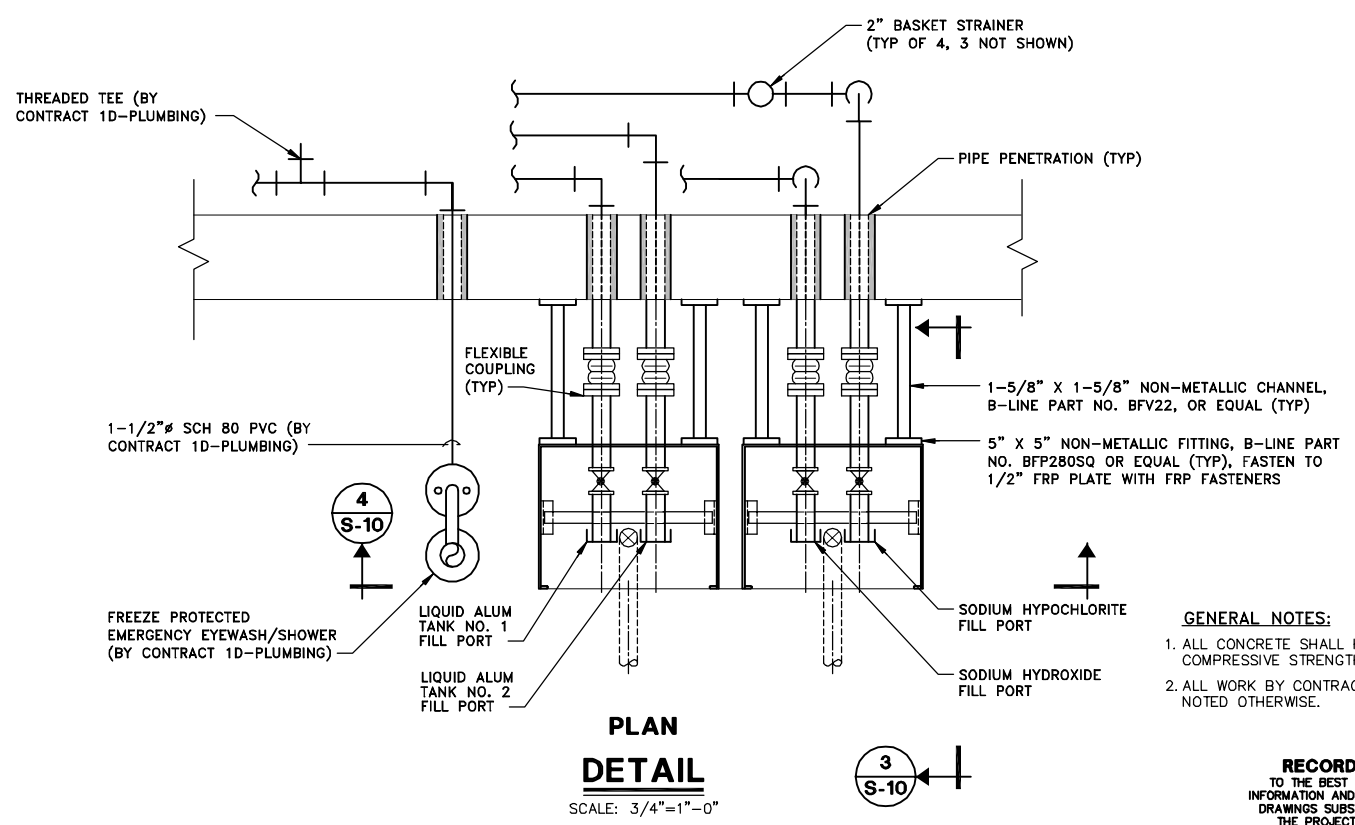
- NOTES:**
- CONTRACTOR SHALL FABRICATE A THREE SIDED SHIELD BY BONDING 1/2" FRP PLATE TO 1-1/2"x1/4" FRP ANGLES.
 - THREE SIDED SHIELD SHALL THEN BE FASTENED TO THE FLAT-FLANGE RECTANGULAR TANK USING FRP FASTENERS AT 8" O.C. WITH A 1/8" THICK VITON GASKET.
 - B-LINE SERIES 501, OR EQUAL, GLASS REINFORCED POLYURETHANE U-BOLTS SHALL BE USED TO SECURE THE FILL PIPE TO THE HORIZONTAL BRACING.

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

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



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



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

- GENERAL NOTES:**
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.
 - ALL WORK BY CONTRACT 1A-GENERAL UNLESS NOTED OTHERWISE.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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Graphic Scale	No.	Date	Revisions	Init
1/8"=1'-0"				
3/4"=1'-0"				
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW				

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PE License	N.Y. 57879

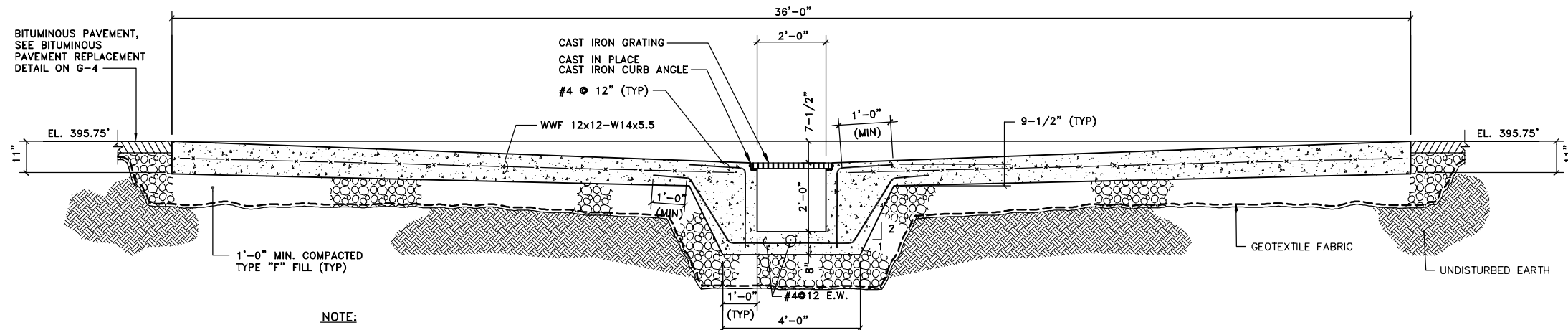
BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
TRANSFER STATION
PLAN, SECTIONS AND DETAIL
STRUCTURAL

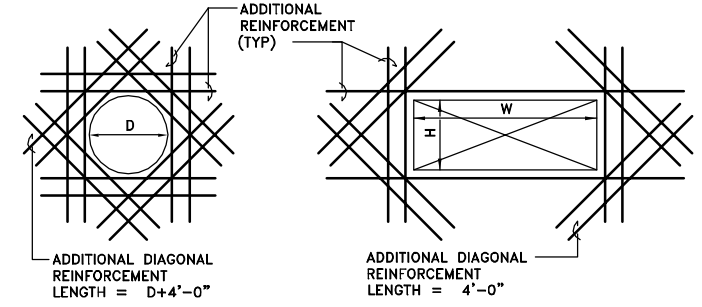
File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

S-10



NOTE:
1. EXISTING PAVEMENT IS TO BE REPAIRED IN ACCORDANCE WITH SPECIFICATION SECTION "BITUMINOUS CONCRETE PAVEMENTS".

SECTION 1
S-10
SCALE: 1/2"=1'-0"

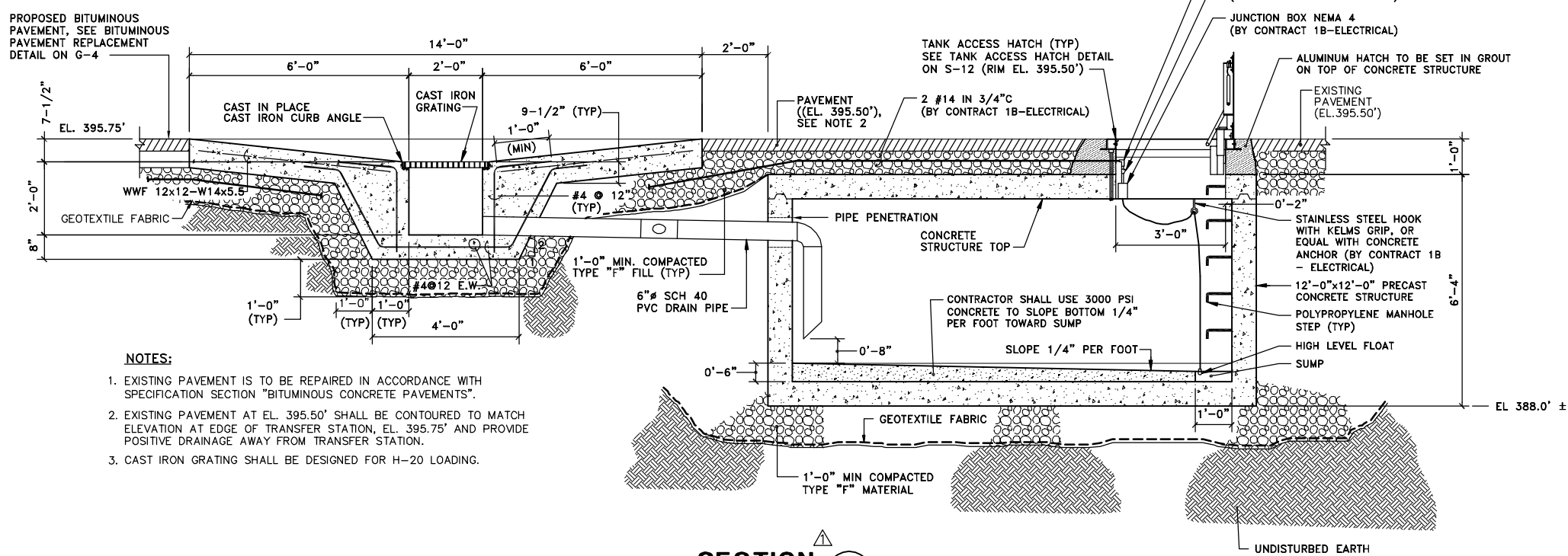


- NOTES:**
1. PROVIDE ADDITIONAL REINFORCEMENT WHEN OPENING SIZE (D, W, OR H) IS EQUAL TO OR GREATER THAN SPECIFIED BAR SPACING.
 2. EXTEND REINFORCEMENT A MINIMUM OF 48 BAR DIAMETERS BEYOND THE FACE OF THE OPENING.
 3. PROVIDE FOR HALF THE AREA OF CUT BARS ON EACH SIDE OF OPENING; MINIMUM 2 #4 @ 6" E.F.
 4. PROVIDE ADDITIONAL DIAGONAL REINFORCEMENT AT ALL OPENINGS.
 - A. OPENINGS (D, H, OR W) UP TO 2'-0": 2 #4 @ 6" E.F.
 - B. OPENINGS (D, H, OR W) UP TO 4'-0": 2 #5 @ 6" E.F.
 - C. OPENINGS (D, H, OR W) GREATER THAN 4'-0": PROVIDE ONE HALF THE AREA OF CUT BARS, EACH CORNER, MINIMUM 2 #6 @ 6" E.F.

ADDITIONAL REINFORCING AT SLAB OPENINGS

NOT TO SCALE

- GENERAL NOTES:**
1. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.
 2. ALL WORK BY CONTRACT 1A-GENERAL UNLESS NOTED OTHERWISE.



- NOTES:**
1. EXISTING PAVEMENT IS TO BE REPAIRED IN ACCORDANCE WITH SPECIFICATION SECTION "BITUMINOUS CONCRETE PAVEMENTS".
 2. EXISTING PAVEMENT AT EL. 395.50' SHALL BE CONTOURED TO MATCH ELEVATION AT EDGE OF TRANSFER STATION, EL. 395.75' AND PROVIDE POSITIVE DRAINAGE AWAY FROM TRANSFER STATION.
 3. CAST IRON GRATING SHALL BE DESIGNED FOR H-20 LOADING.

SECTION 2
S-10
SCALE: 1/2"=1'-0"

X: 00365X00.DWG
L: ON=*, OFF=REF*
P: PAGESET: CDL
8/13/02 SYR-54 GMS DCC DJP
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Graphic Scale

1/2"=1'-0"

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No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	WFF
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Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

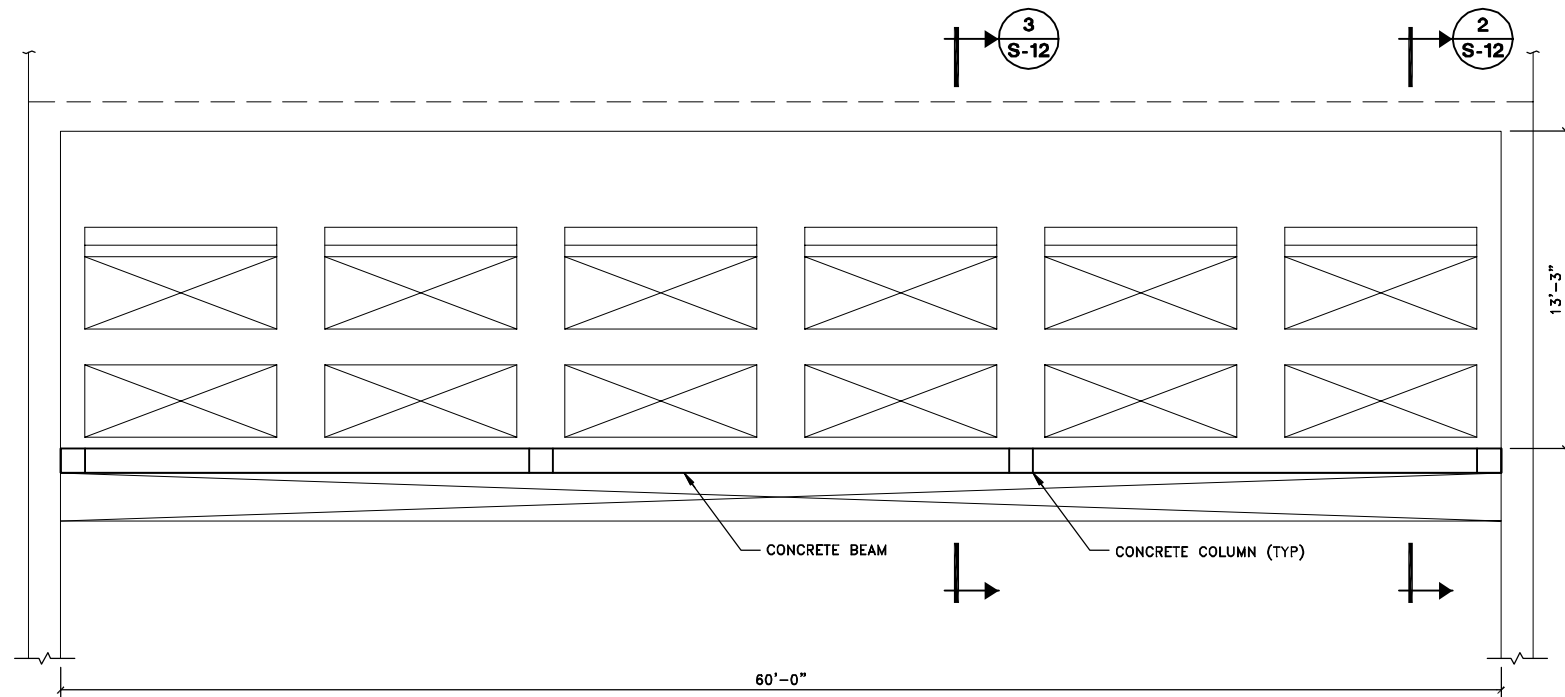
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
TRANSFER STATION
SECTIONS AND DETAIL
STRUCTURAL

File Number	003.65.006
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Blasland, Bouck & Lee, Inc.	Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

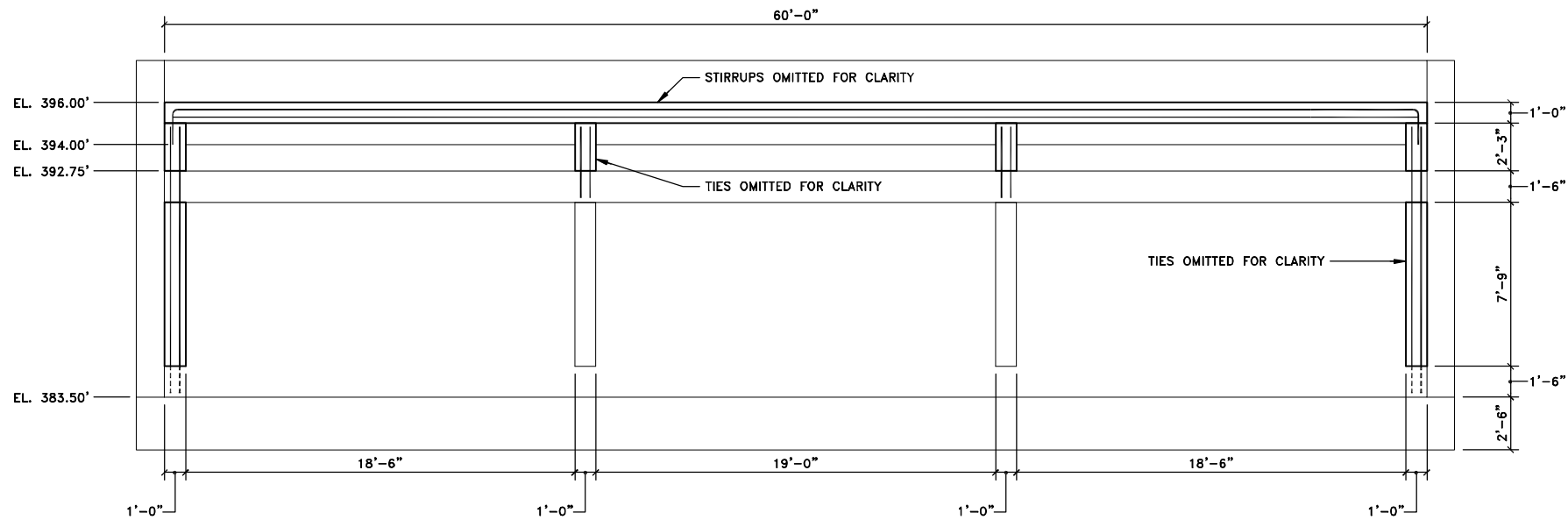
S-11

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.



PLAN

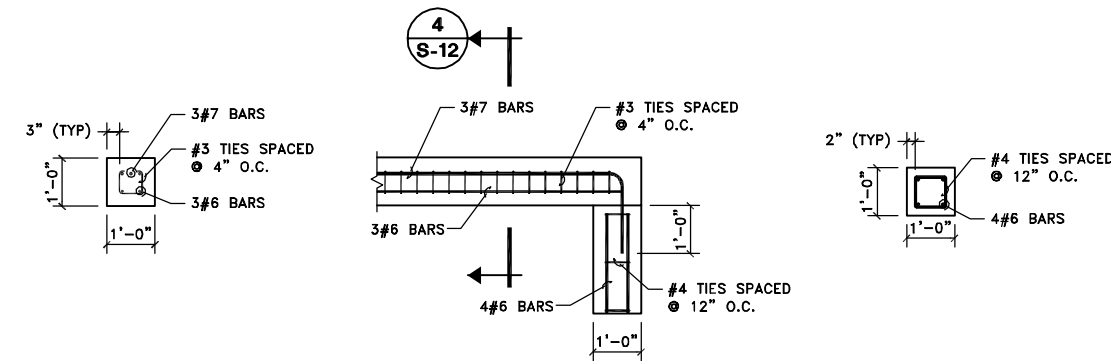
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SECTION 1
SCALE: 1/4"=1'-0"

NOTES:

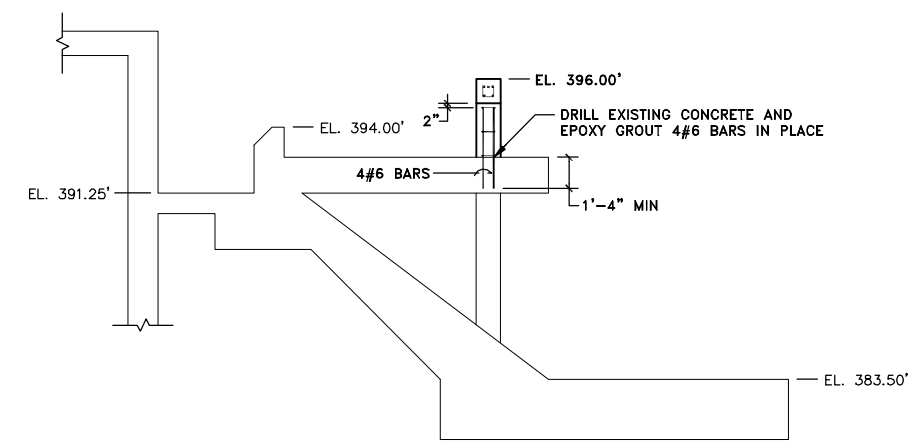
1. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
2. PRIMARY CLARIFIER NO.1 SHOWN. PRIMARY CLARIFIER NO.2 SIMILAR.



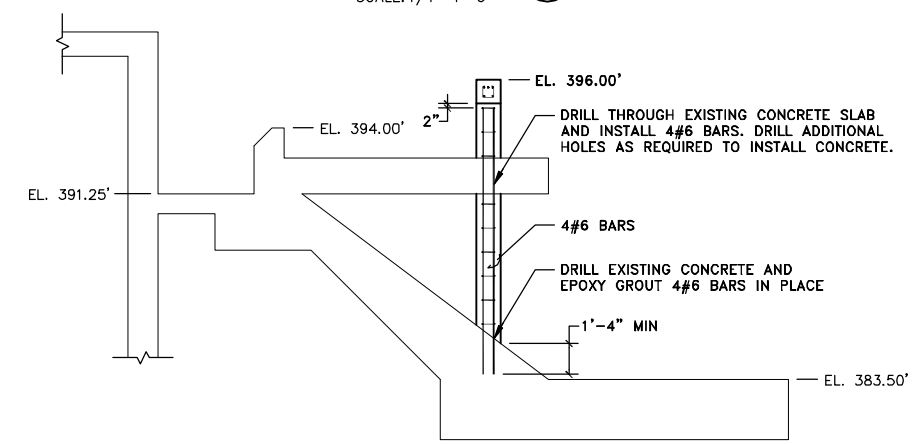
SECTION 4
SCALE: 1/2"=1'-0"

COLUMN-BEAM DETAIL
SCALE: 1/2"=1'-0"

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



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



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

- GENERAL NOTE:**
1. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.

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8/13/02 SYR-54 GMS DCC DJP
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Graphic Scale

1/4"=1'-0"

1/2"=1'-0"

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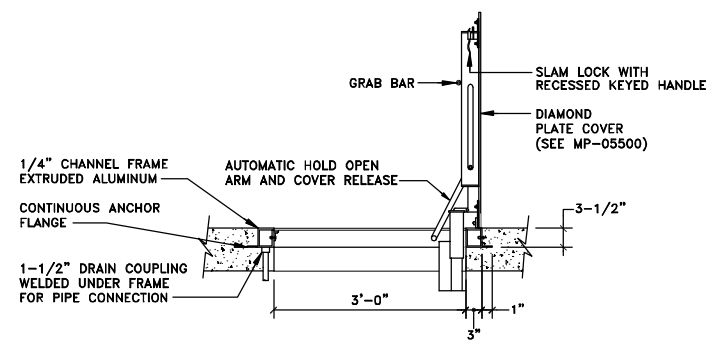
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
**PRIMARY CLARIFIER PLAN, SECTIONS,
ELEVATIONS AND DETAILS**
STRUCTURAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

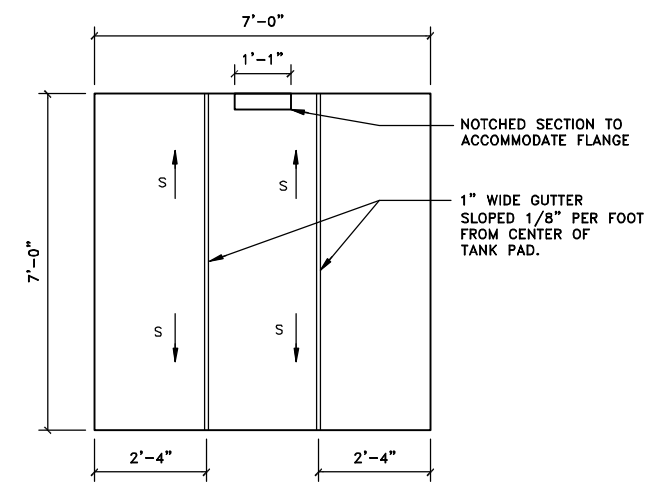
S-12



SECTION

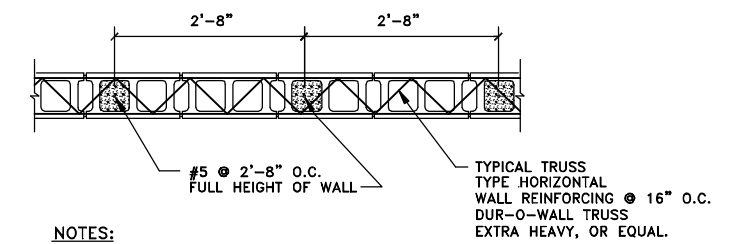
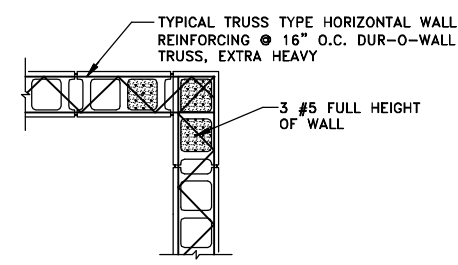
TANK ACCESS HATCH DETAIL

NOT TO SCALE



CMU CONTAINMENT WALL CORNER DETAIL

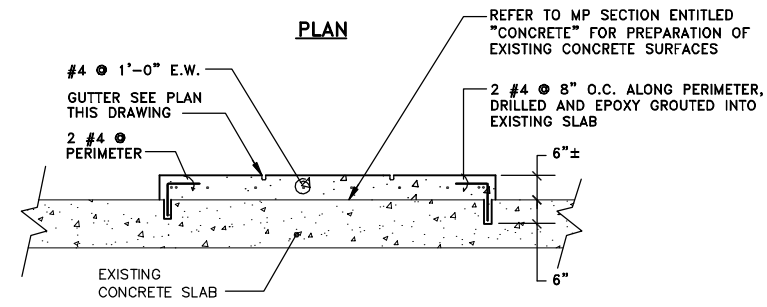
SCALE: 3/4"=1'-0"



- NOTES:
- HORIZONTAL CMU WALL REINFORCEMENT SHALL BE HOT DIPPED GALVANIZED.
 - THE NUMBER OF CMU COURSES FOR EACH WALL ARE CALLED OUT ON SHEET M-13. EACH WALL SHALL BE CAPPED OFF WITH AN ADDITIONAL SOLID 8" X 2" X 16" COURSE OF BLOCK.
 - DRILL AND EPOXY GROUT EACH #5 BAR INTO EXISTING SLAB 9".

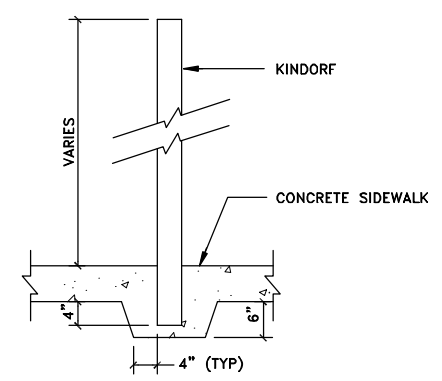
CMU CONTAINMENT WALL DETAIL

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



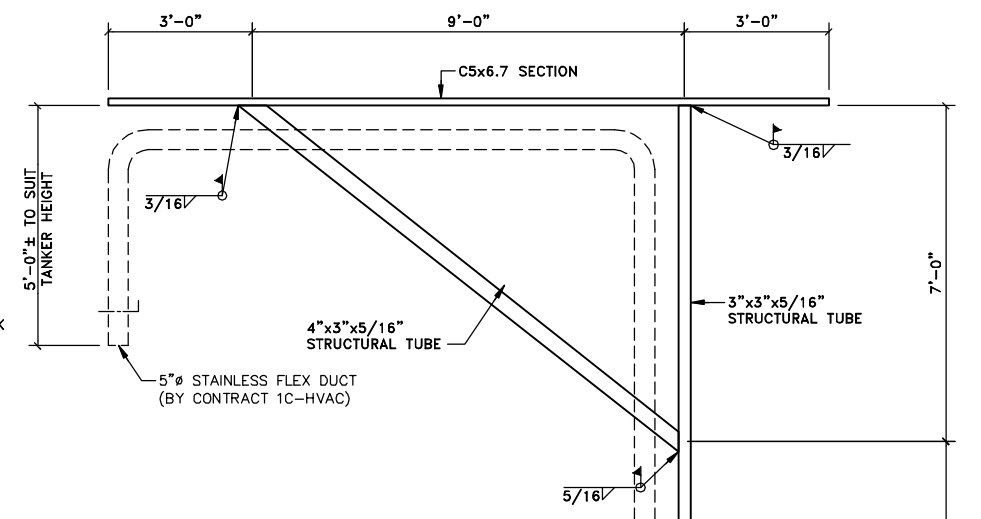
TYPICAL CONCRETE TANK PAD DETAIL

SCALE 1/2"=1'-0"



KINDORF INSTALLATION DETAIL

NOT TO SCALE



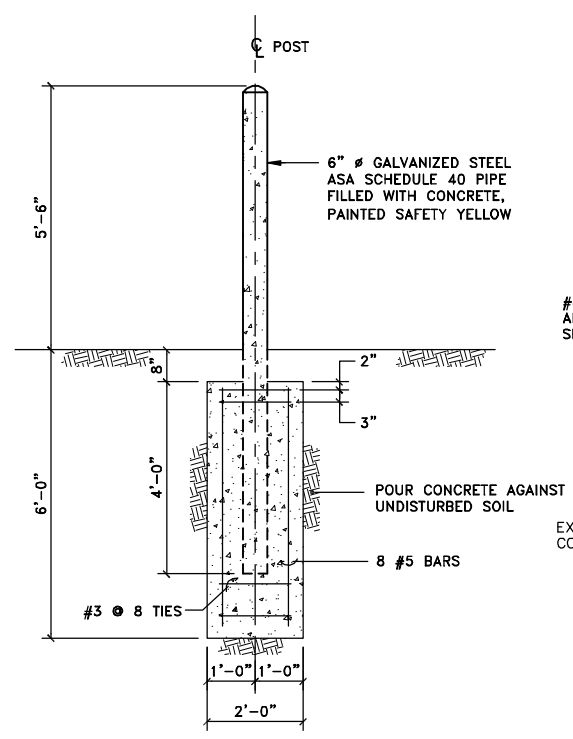
ODOR CONTROL SYSTEM DUCT SUPPORT DETAIL

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

- NOTE:
- ALL STRUCTURAL STEEL SHALL BE GALVANIZED STEEL.

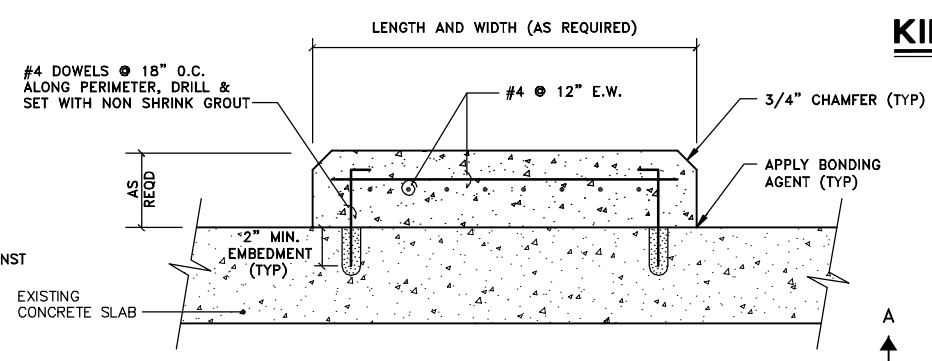
- GENERAL NOTE:
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.

RECORD DRAWINGS TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
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PIPE BOLLARD DETAIL

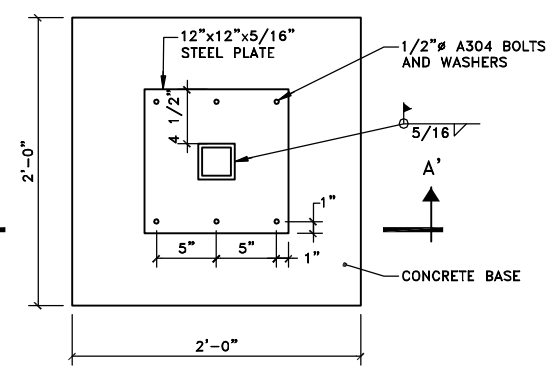
SCALE: 1/2"=1'-0"



CONCRETE EQUIPMENT PAD DETAIL

NOT TO SCALE

- NOTE:
- SEE MP SECTION 15000 - GENERAL EQUIPMENT REQUIREMENTS FOR DETAILS REGARDING ANCHORING, SUPPORT, CONCRETE PADS, ETC.
 - REFER TO MP SECTION ENTITLED "CONCRETE" FOR PREPARATION OF EXISTING CONCRETE FOR TOPPING.



PLAN

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

- NOTE:
- EXISTING SIDEWALK SHALL BE SAWCUT AND REPLACED BY A 2'x2'x1' CONCRETE BASE AS SHOWN ABOVE.

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00365020/RECORD/OAK/00365S13.DWG

Graphic Scale	No.	Date	Revisions	Init
3/4"=1'-0"	0	3/8/99	GENERAL REVISIONS	
1/2"=1'-0"				
1/2"=1'-0"				

Project Mgr.	JCP
Designed by	JDS/WRH
Drawn by	AK
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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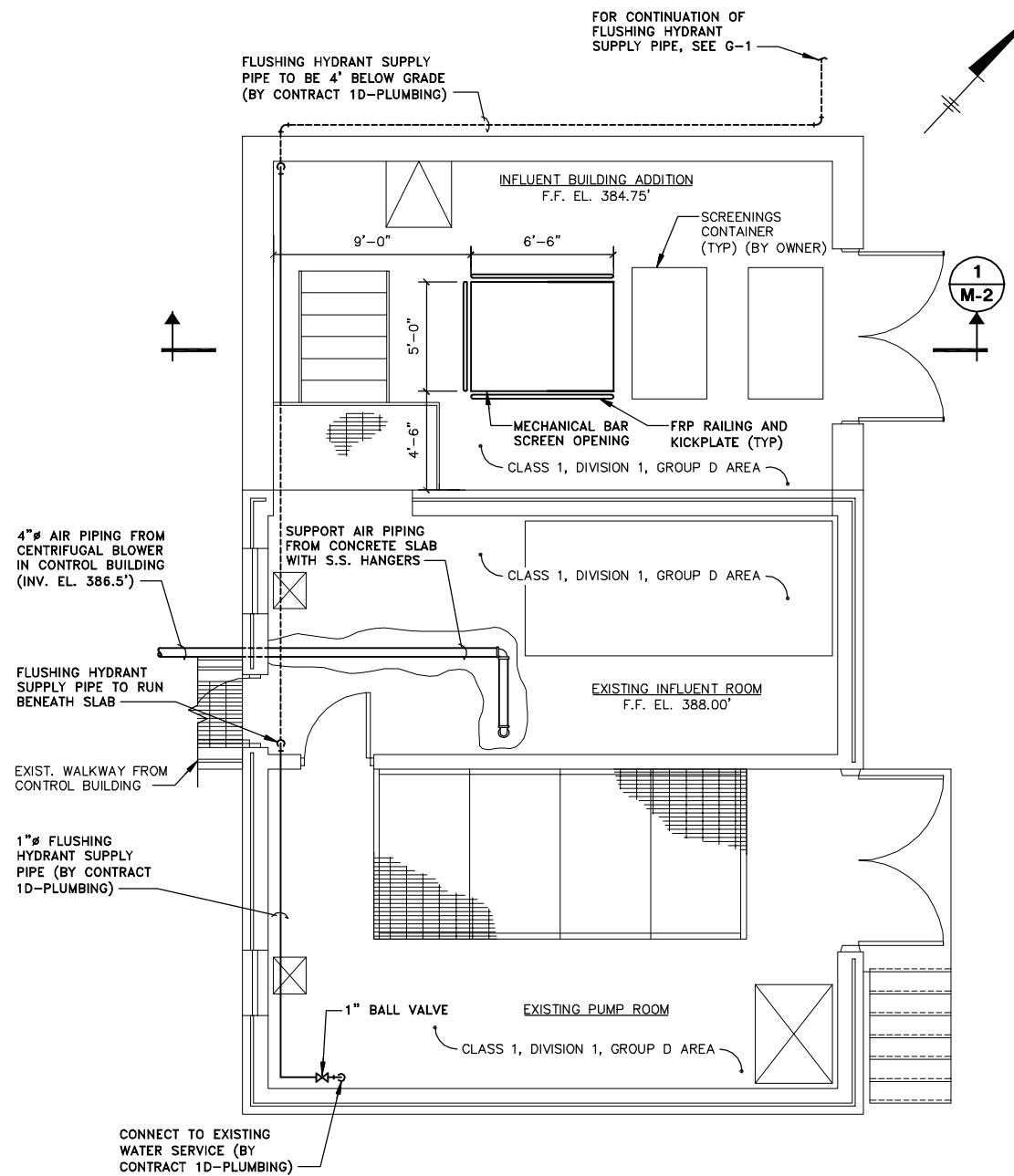
RECORD DRAWING: MADE FROM DRAWING NO. S-13, TRACER NO. 00365020/OAK/0365S13.DWG, DATED 3/5/99

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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

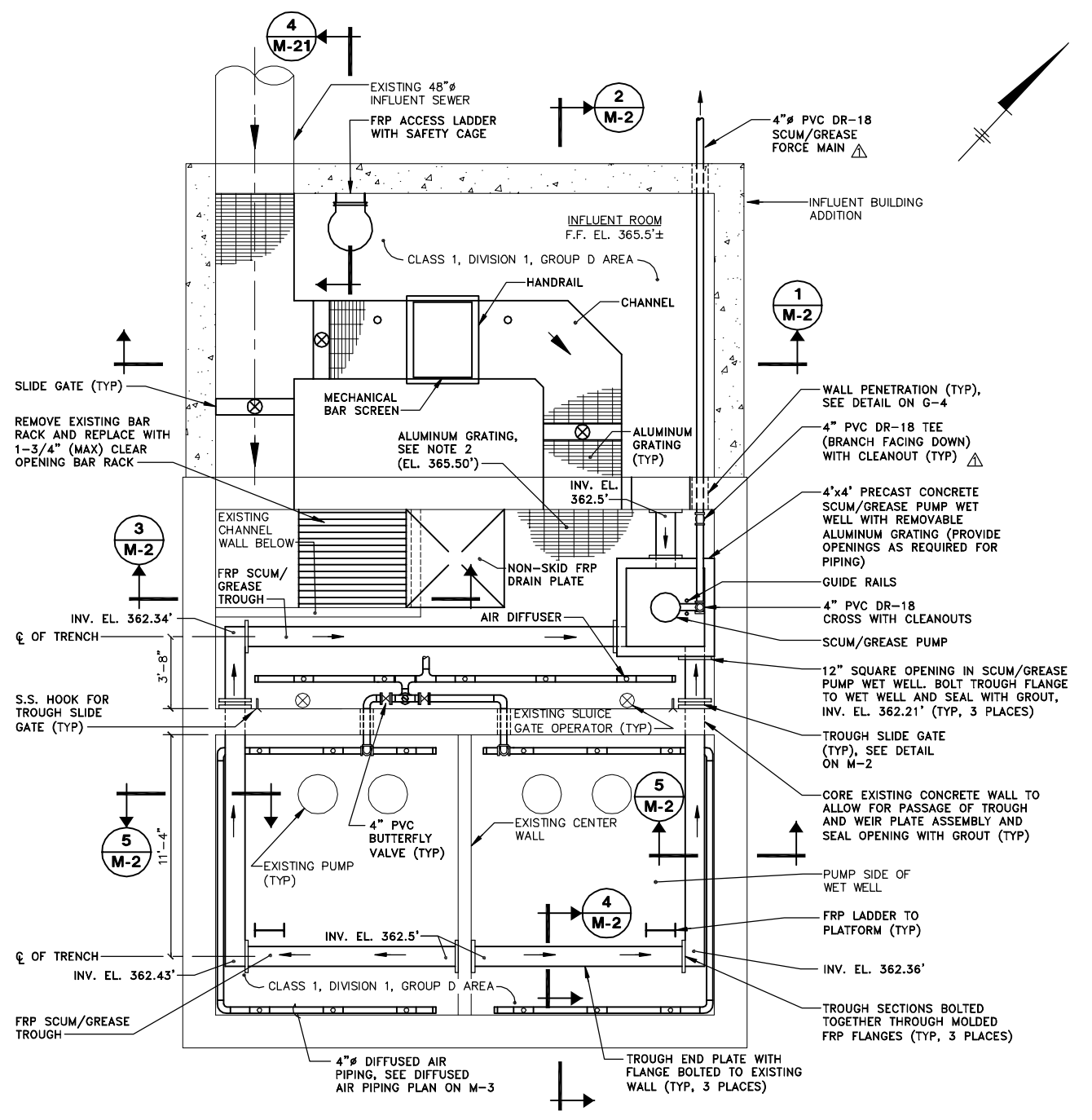
MISCELLANEOUS DETAILS

STRUCTURAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	



PLAN AT EL. 388.00'
SCALE: 1/4"=1'-0"



PLAN AT EL. 365.50'
SCALE: 1/4"=1'-0"

- NOTES:**
- FRP SCUM/GREASE TROUGH RIM ELEVATION TO REMAIN AT 363.5' WHILE INVERT VARIES ACCORDING TO PLAN ON THIS SHEET.
 - REFER TO S-2 FOR GRATING PLAN.
 - ALL WORK BY CONTRACT 1A - GENERAL UNLESS NOTED OTHERWISE.

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Graphic Scale
1/4"=1'-0"

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Designed by	SS
Drawn by	AK
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

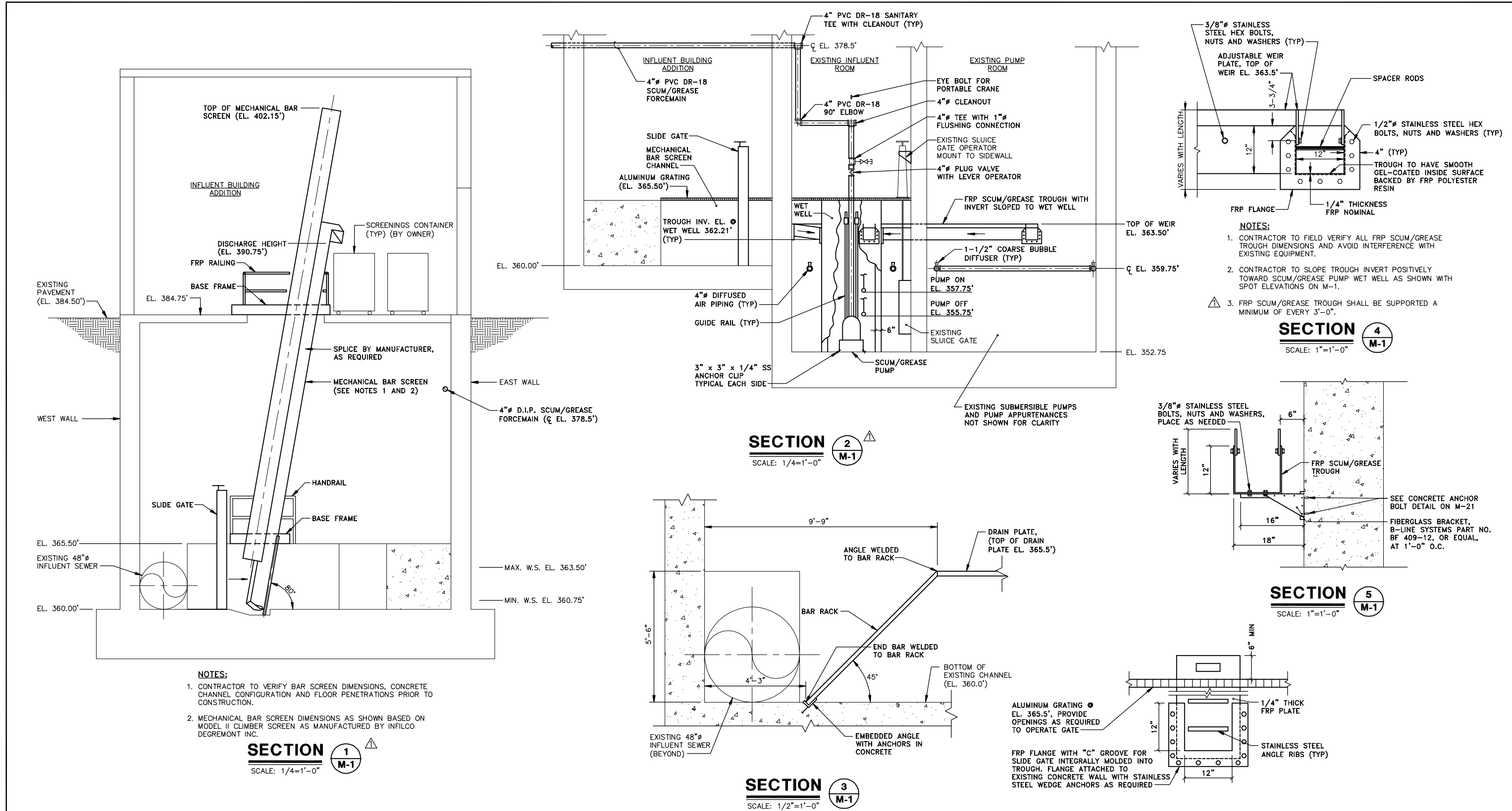
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
INFLUENT BUILDING ADDITION
PLANS
MECHANICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

M-1



- NOTES:**
- CONTRACTOR TO VERIFY BAR SCREEN DIMENSIONS, CONCRETE CHANNEL CONFIGURATION AND FLOOR PENETRATIONS PRIOR TO CONSTRUCTION.
 - MECHANICAL BAR SCREEN DIMENSIONS AS SHOWN BASED ON MODEL II CLIMBER SCREEN AS MANUFACTURED BY INFILCO DEGREMONT INC.

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

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

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

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

SECTION 5
SCALE: 1"=1'-0"

TROUGH SLIDE GATE DETAIL
NOT TO SCALE

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Graphic Scale
1/4"=1'-0"

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Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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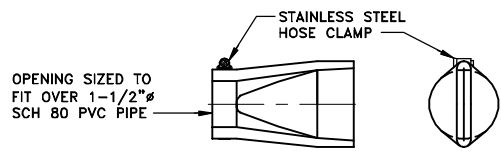
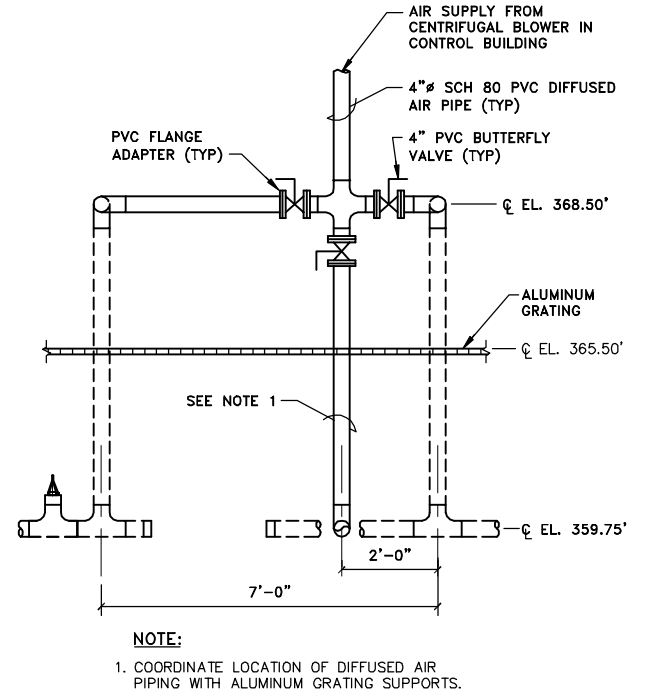
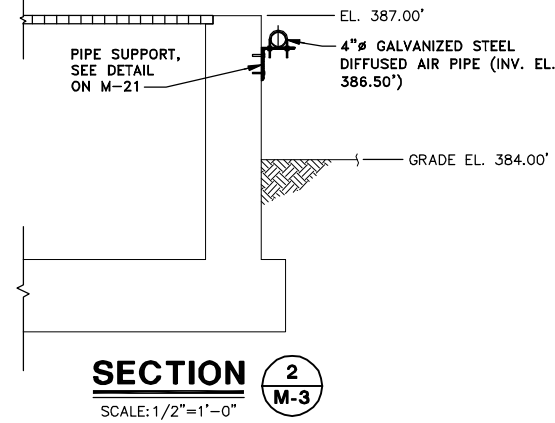
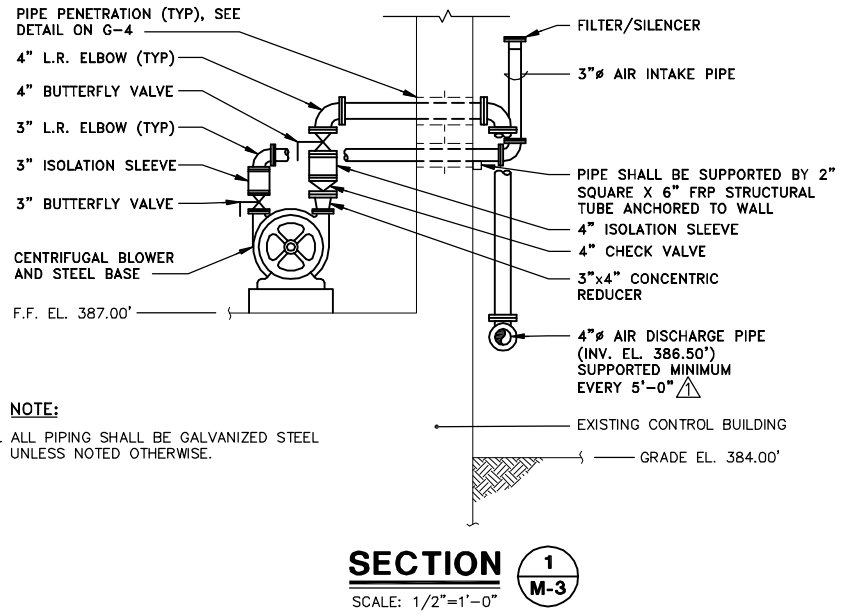
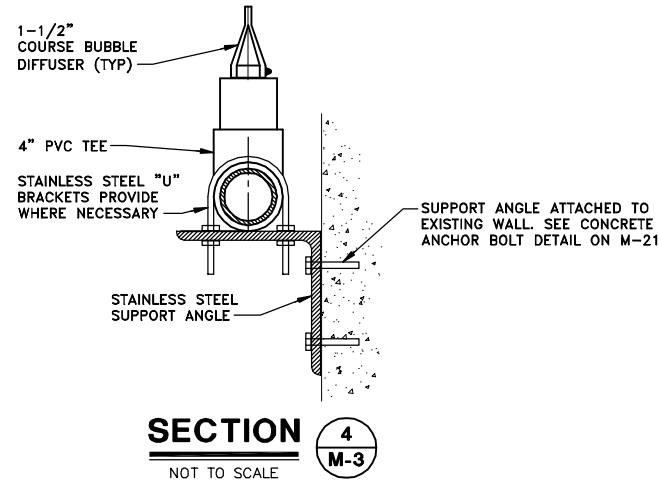
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
INFLUENT BUILDING ADDITION
SECTIONS AND DETAIL
MECHANICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc.	Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

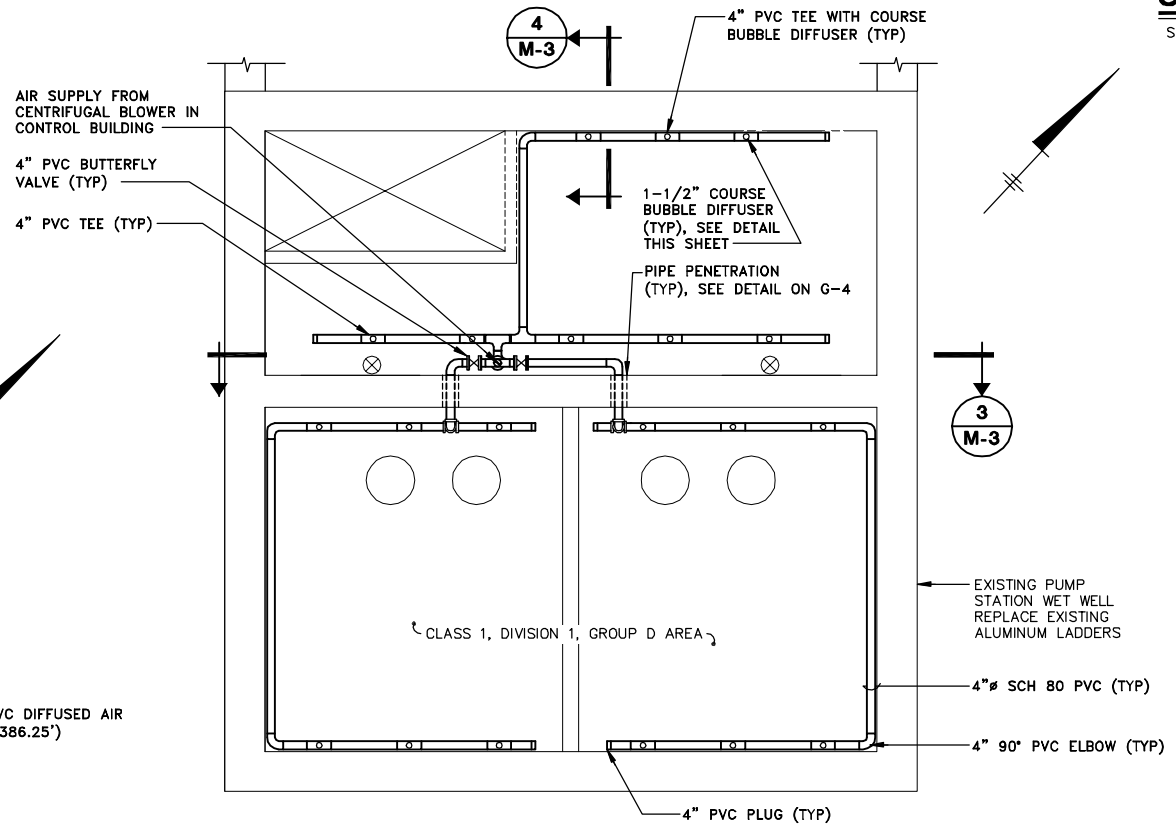
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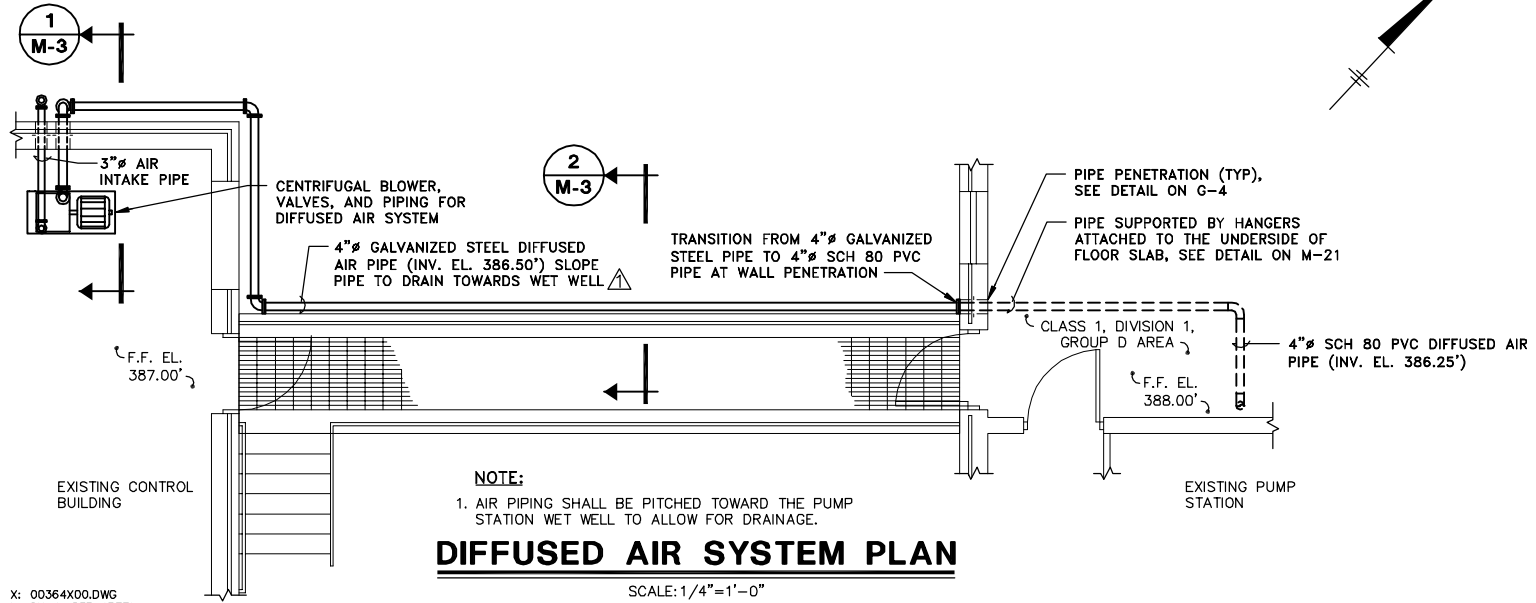
DATE _____ BY _____



COURSE BUBBLE DIFFUSER DETAIL



DIFFUSED AIR PIPING PLAN



DIFFUSED AIR SYSTEM PLAN

- GENERAL NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND AVOID INTERFERENCE WITH EXISTING EQUIPMENT.
 2. COURSE BUBBLE DIFFUSERS SHALL BE SPACED EVENLY ALONG EACH PIPE RUN.
 3. DIFFUSED AIR PIPING SHALL BE SUPPORTED A MINIMUM OF EVERY 3'-0".

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Graphic Scale

1/4"=1'-0"

1/2"=1'-0"

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Designed by	SS
Drawn by	GMS
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

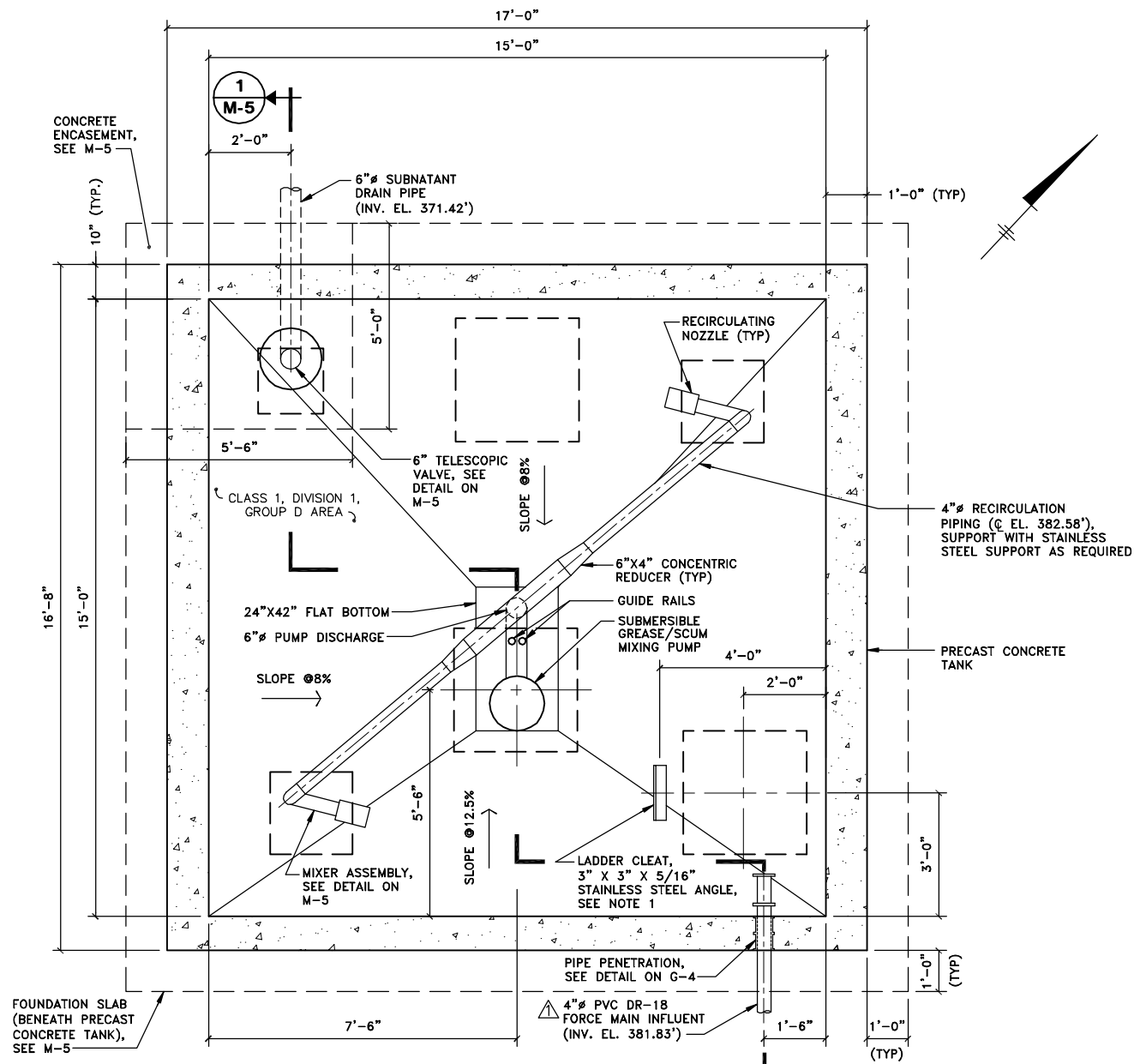
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
DIFFUSED AIR SYSTEM
PLANS, SECTIONS AND DETAIL
MECHANICAL

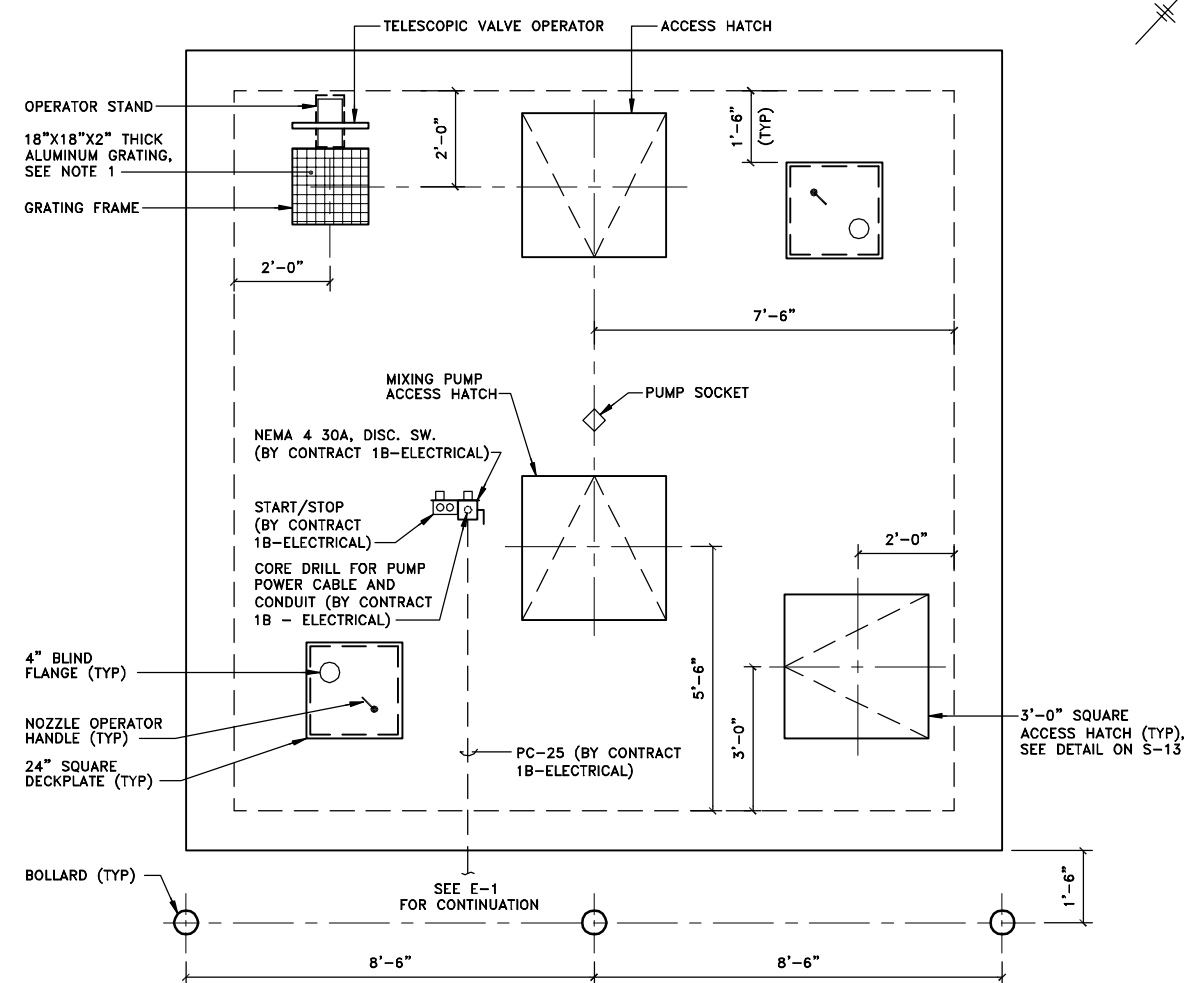
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Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

M-3



NOTE:
 1. CONTRACTOR SHALL USE NON-SHRINK GROUT TO PROVIDE A LEVEL SURFACE FOR THE LADDER CLEAT AND SHALL ANCHOR THE CLEAT IN THE SLOPED TANK FLOOR.

PLAN AT EL. 383.25'
 SCALE: 1/2"=1'-0"



NOTE:
 1. PRECAST CONCRETE TANK MANUFACTURER SHALL PROVIDE A 2" SHELF TO SUPPORT THE ALUMINUM GRATING. THE GRATING SHALL BE FLUSH WITH THE TOP OF THE CONCRETE TANK.

PLAN AT EL. 384.25'
 SCALE: 1/2"=1'-0"

GENERAL NOTE:

1. ALL WORK BY CONTRACT 1A - GENERAL UNLESS NOTED OTHERWISE.

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Graphic Scale

1/2"=1'-0"

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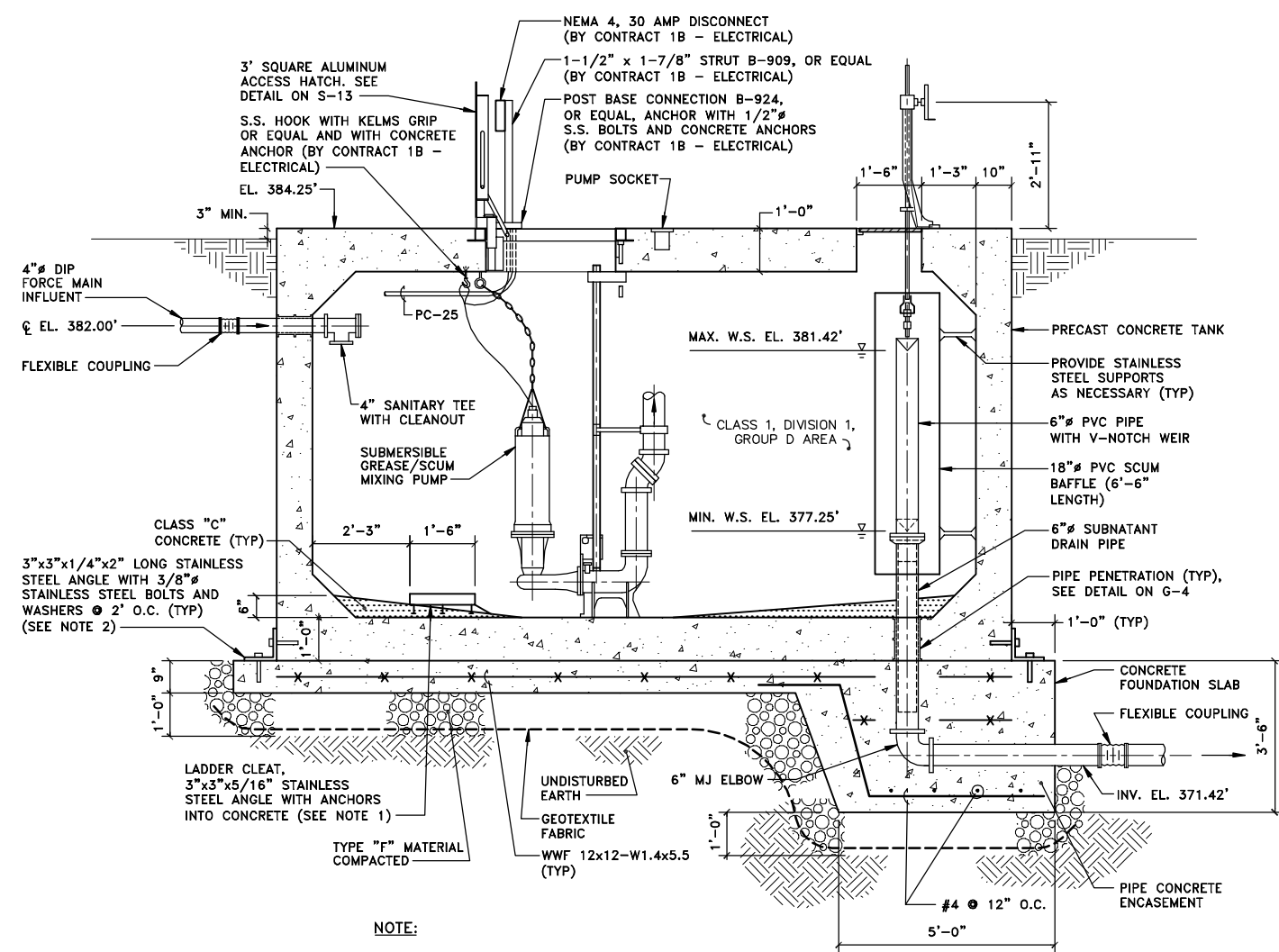
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 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION

SCUM HOLDING TANK PLANS

MECHANICAL

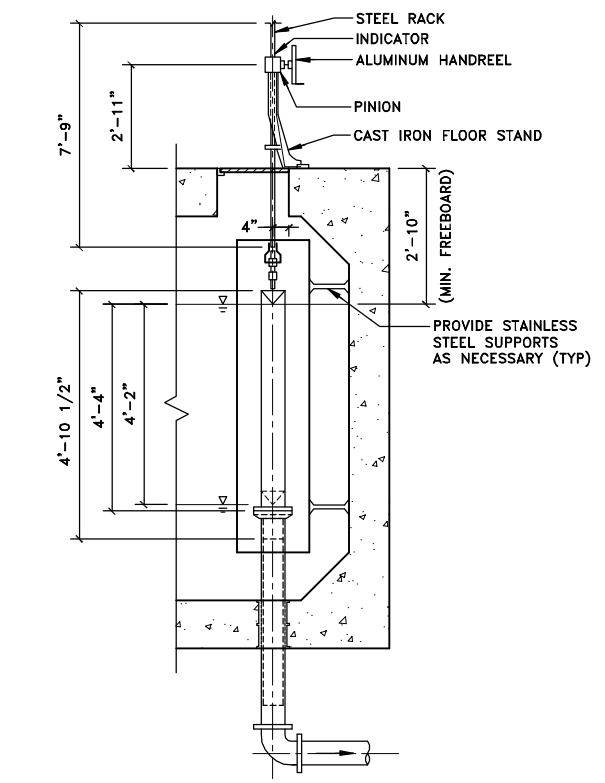
File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

M-4

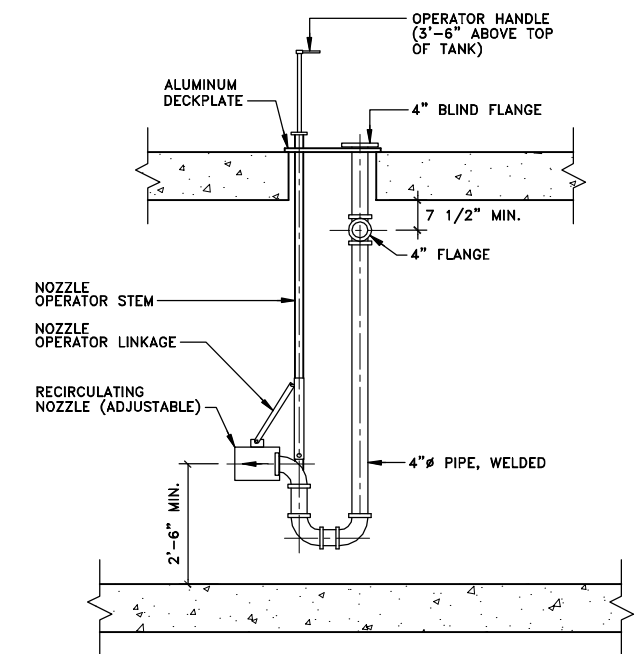


- NOTE:**
1. CONTRACTOR SHALL USE NON-SHRINK GROUT TO PROVIDE A LEVEL SURFACE FOR THE LADDER CLEAT.
 2. ANCHOR BOLTS SHALL BE EMBEDDED 12" INTO CONCRETE, WHERE POSSIBLE; 6" ALL OTHER PLACES.

SECTION 1
M-4
 SCALE: 1/2"=1'-0"



TELESCOPIC VALVE DETAIL
 NOT TO SCALE



MIXER ASSEMBLY DETAIL
 NOT TO SCALE

GENERAL NOTE:
 1. ALL WORK BY CONTRACT 1A - GENERAL UNLESS NOTED OTHERWISE.

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Graphic Scale	No.	Date	Revisions	Init
1/2"=1'-0"	1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	SS
Drawn by	DCC
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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SCUM HOLDING TANK SECTION AND DETAILS
 MECHANICAL

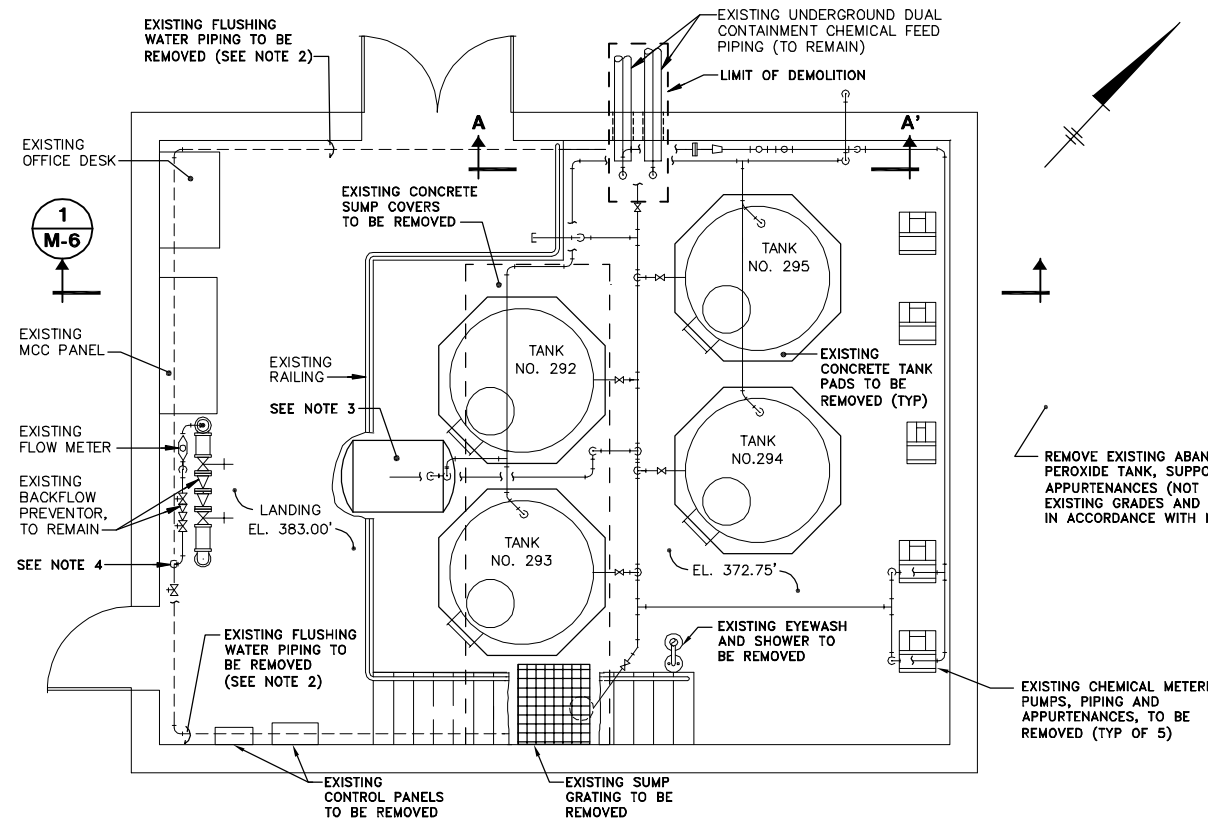
File Number	003.65.006
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M-5

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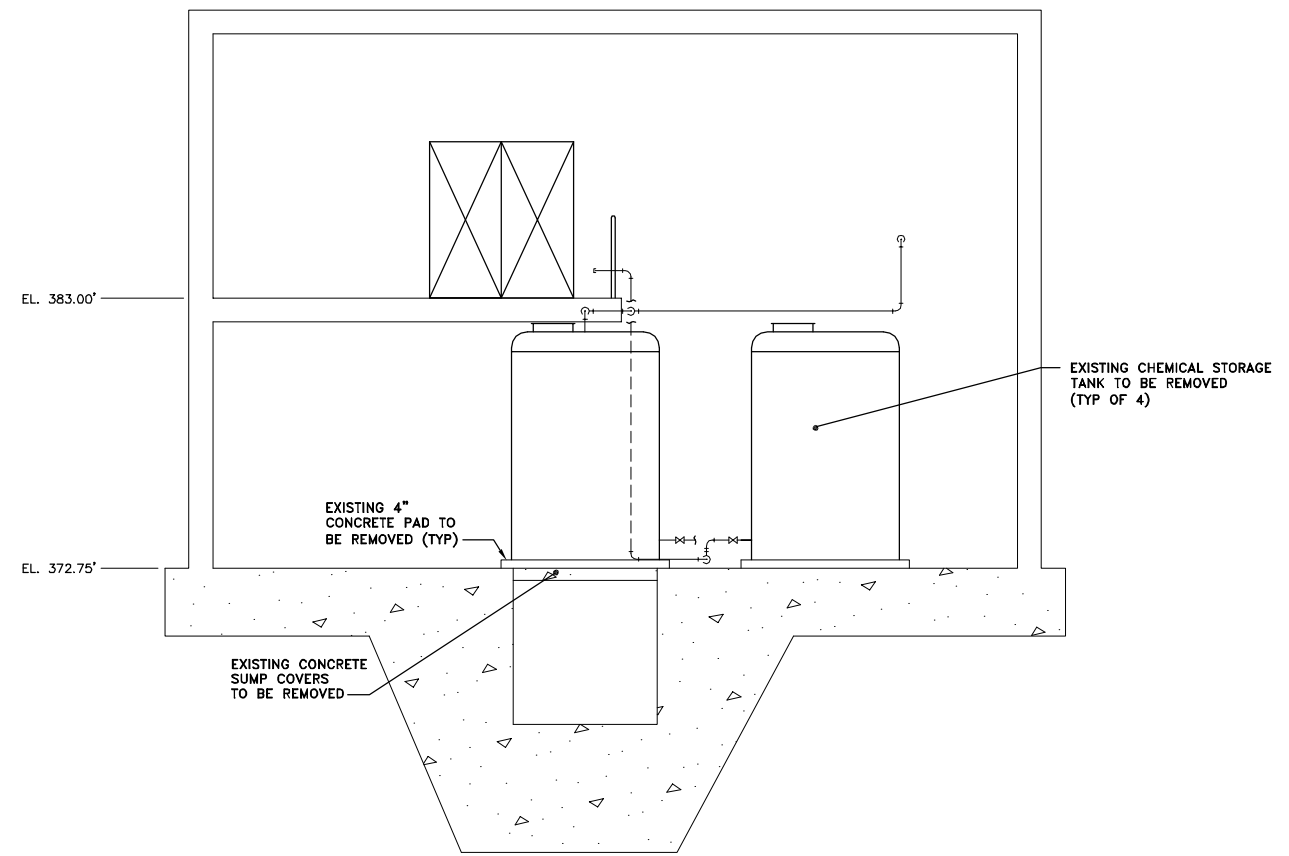
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 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION



- NOTES:**
1. ITEMS WITHIN THE LIMIT OF DEMOLITION SHALL REMAIN.
 2. ALL SERVICE WATER PIPING WITHIN THE CHEMICAL STORAGE BUILDING SHALL BE REMOVED.
 3. EXISTING STORAGE TANK TO BE RELOCATED TO A NEW LOCATION IN ACCORDANCE WITH M-7.
 4. REMOVE SERVICEWATER PIPE TO A POINT 6" ABOVE THE LANDING ELEVATION.

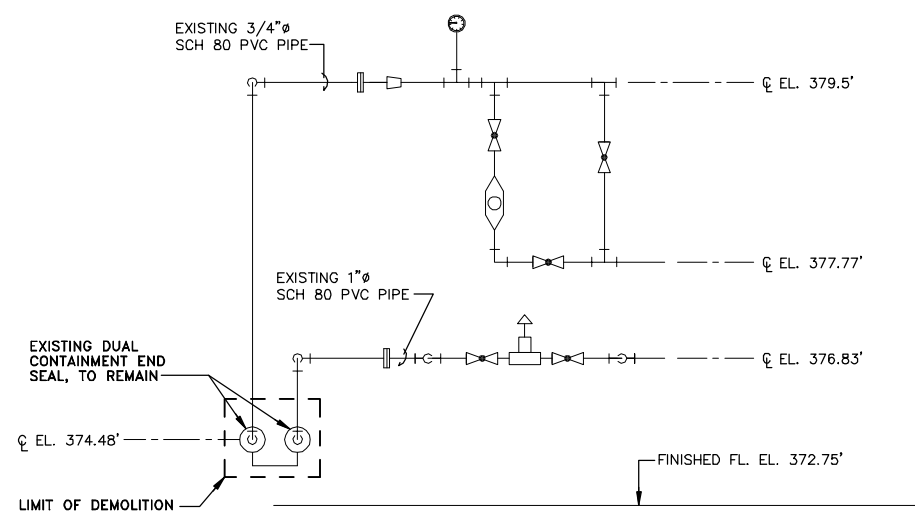
DEMOLITION PLAN
SCALE: 1/4"=1'-0"

REMOVE EXISTING ABANDONED HYDROGEN PEROXIDE TANK, SUPPORTS AND APPURTENANCES (NOT SHOWN). RESTORE EXISTING GRADES AND TOPSOIL AND SEED IN ACCORDANCE WITH MP-02300.



SECTION 1 M-6
SCALE: 1/4"=1'-0"

- GENERAL NOTES:**
1. ALL CHEMICAL STORAGE TANKS, CHEMICAL FEED PUMPS, PIPING, PIPE HANGERS, CHEMICAL FEED PUMP ELECTRICAL CONTROL PANELS AND ALL RELATED APPURTENANCES SHALL BE REMOVED.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OFF SITE DISPOSAL OF ALL REMOVED ITEMS.



- NOTE:**
1. ALL PIPE, VALVES, AND RELATED APPURTENANCES OUTSIDE THE LIMITS OF DEMOLITION SHALL BE REMOVED.

PARTIAL ELEVATION A-A'
NOT TO SCALE

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Drawn by --- AK ---
Checked by --- JCP ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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**CHEMICAL STORAGE BUILDING
DEMOLITION PLAN, SECTION, AND ELEVATION**
MECHANICAL

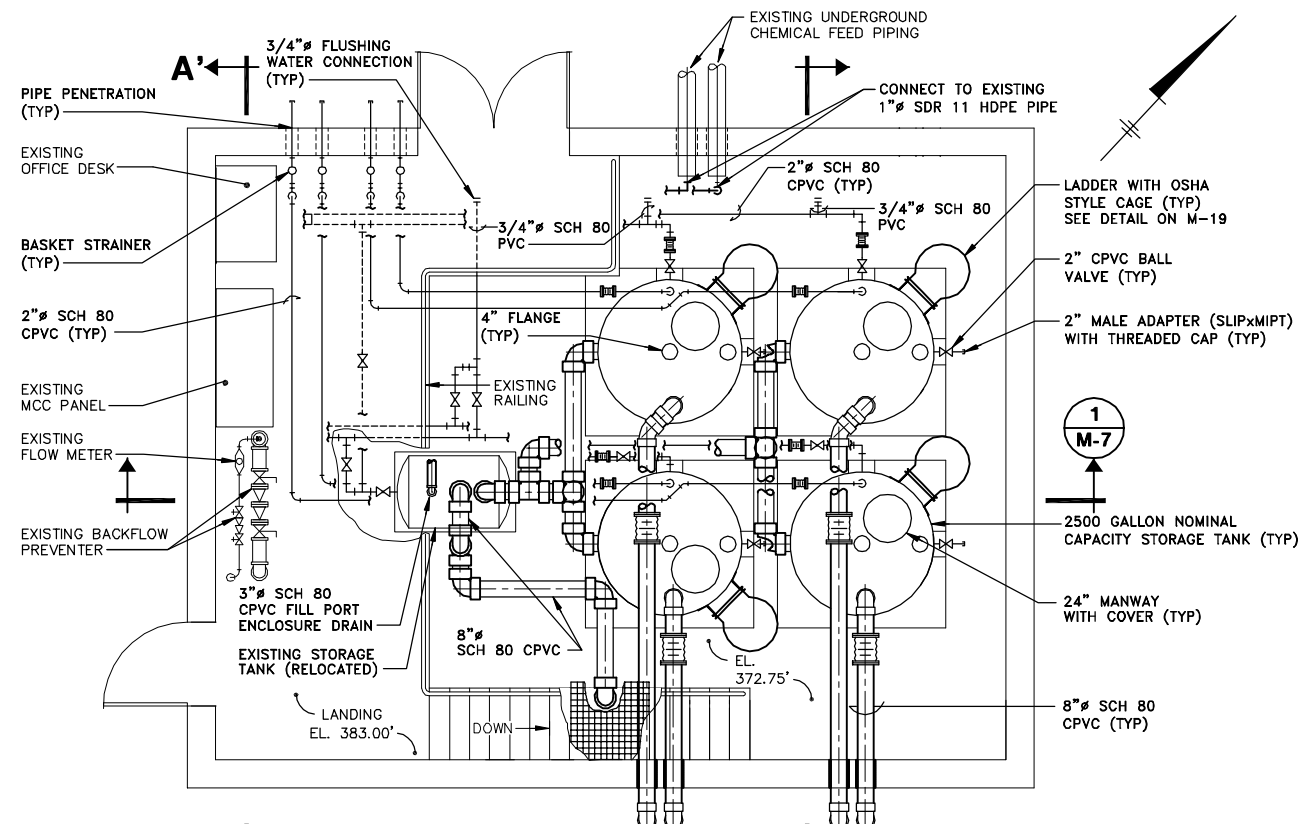
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Syracuse, NY 13214
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M-6

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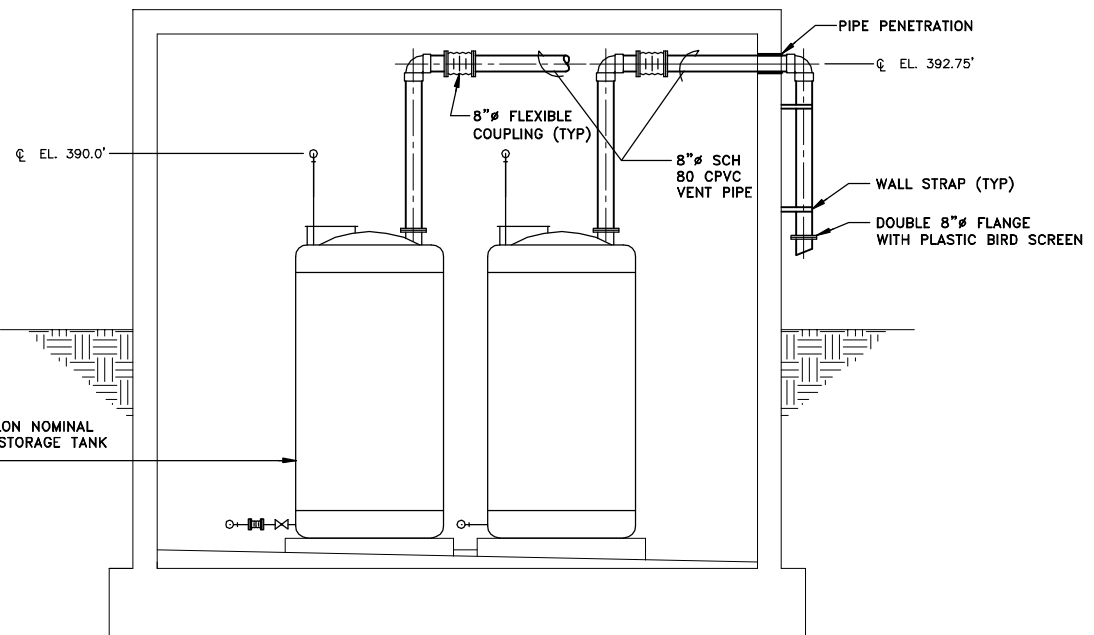
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION



- NOTES:**
1. FLUSHING WATER PIPING SHALL CONNECT TO THE BALL VALVES PROVIDED BY CONTRACT 1D-PLUMBING. SEE ACTUAL LOCATION OF BALL VALVES ON P-2.

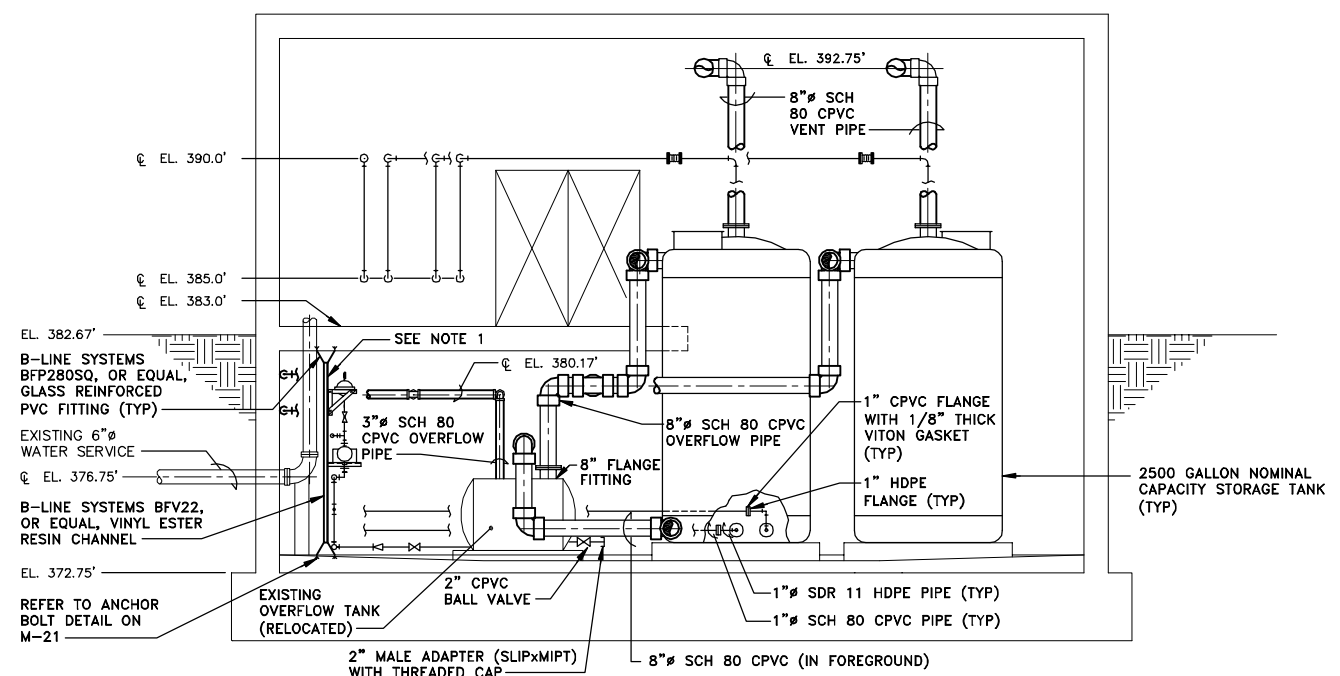
PLAN

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



SECTION 2

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

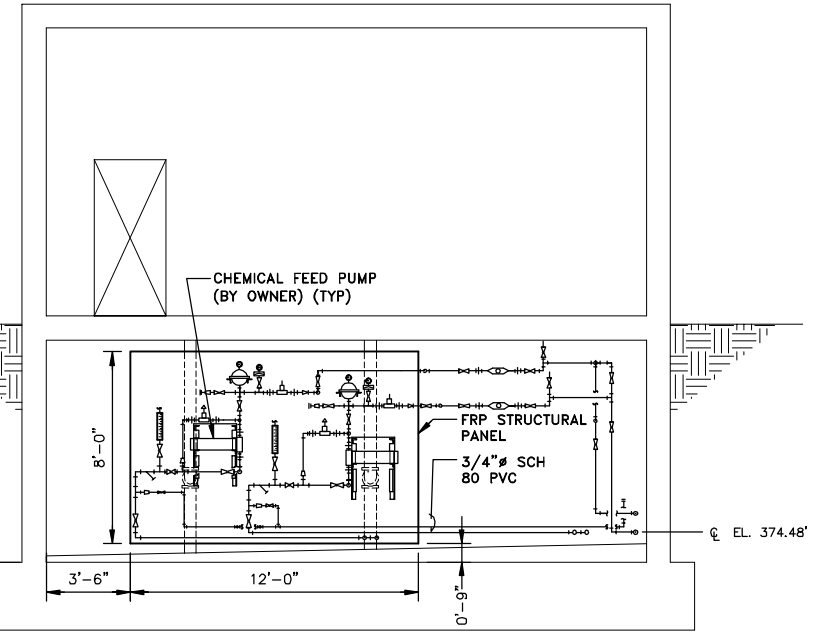


NOTES:

1. A 1/2" FRP STRUCTURAL PANEL SHALL BE SECURELY BONDED TO CHANNEL. AN ADDITIONAL CHANNEL SHALL BE LOCATED FOR SECURELY FASTENING THE PUMP SHELF SUPPORT.
2. REFER TO CHEMICAL FEED PUMP INSTALLATION DETAIL ON M-22.
3. BASKET STRAINERS NOT SHOWN FOR CLARITY.

SECTION 1

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



NOTES:

1. SUPPORTING CHANNELS FOR FRP STRUCTURAL PANEL NOT SHOWN FOR CLARITY. CONTRACTOR SHALL FURNISH AND INSTALL CHANNELS 16" O.C. AND ALSO AT LOCATIONS NEEDED FOR SECURING PUMP SHELF.

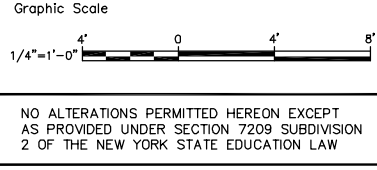
ELEVATION A-A'

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

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CHEMICAL FEED SYSTEM COMPONENTS. SEE M-8 FOR CHEMICAL FEED SYSTEM SCHEMATIC.
2. STORAGE TANK SHALL UTILIZE SIDE BOTTOM DRAIN FLANGES, FITTINGS MAY NOT BE SHOWN AS SIDE BOTTOM DRAIN FLANGES FOR CLARITY.
3. ALL FLANGES SHALL RECEIVE A 1/8" VITON GASKET.
4. ALL FASTENERS SHALL BE NON-METALLIC.
5. ALL PIPING SHALL BE SUPPORTED AT 3'-0" INTERVALS HORIZONTAL AND VERTICAL, AND ALL CHANGES IN DIRECTION.

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Project Mgr.	JCP
Designed by	SS
Drawn by	AK
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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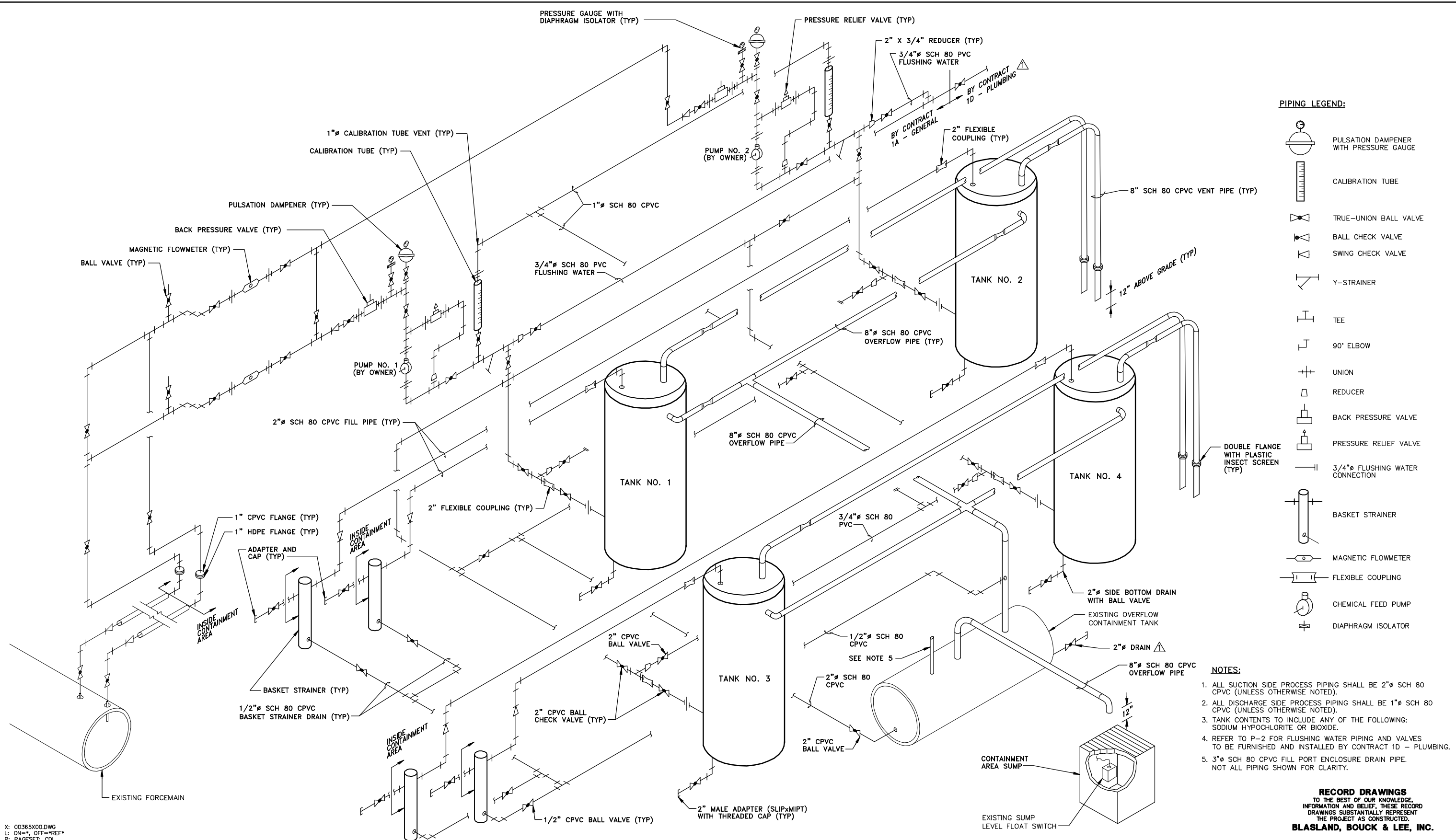
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION
CHEMICAL STORAGE BUILDING
PLAN, SECTIONS, AND ELEVATION
 MECHANICAL

RECORD DRAWINGS
 TO THE BEST OF OUR KNOWLEDGE,
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 DRAWINGS SUBSTANTIALLY REPRESENT
 THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

File Number
003.65.006
 Date
AUGUST 2002
 Blasland, Bouck & Lee, Inc.
 Corporate Headquarters
 6723 Towpath Road
 Syracuse, NY 13214
 315-446-9120

M-7



PIPING LEGEND:

	PULSATION DAMPENER WITH PRESSURE GAUGE
	CALIBRATION TUBE
	TRUE-UNION BALL VALVE
	BALL CHECK VALVE
	SWING CHECK VALVE
	Y-STRAINER
	TEE
	90° ELBOW
	UNION
	REDUCER
	BACK PRESSURE VALVE
	PRESSURE RELIEF VALVE
	3/4" FLUSHING WATER CONNECTION
	BASKET STRAINER
	MAGNETIC FLOWMETER
	FLEXIBLE COUPLING
	CHEMICAL FEED PUMP
	DIAPHRAGM ISOLATOR

- NOTES:**
1. ALL SUCTION SIDE PROCESS PIPING SHALL BE 2" SCH 80 CPVC (UNLESS OTHERWISE NOTED).
 2. ALL DISCHARGE SIDE PROCESS PIPING SHALL BE 1" SCH 80 CPVC (UNLESS OTHERWISE NOTED).
 3. TANK CONTENTS TO INCLUDE ANY OF THE FOLLOWING: SODIUM HYPOCHLORITE OR BIOXIDE.
 4. REFER TO P-2 FOR FLUSHING WATER PIPING AND VALVES TO BE FURNISHED AND INSTALLED BY CONTRACT 1D - PLUMBING.
 5. 3" SCH 80 CPVC FILL PORT ENCLOSURE DRAIN PIPE. NOT ALL PIPING SHOWN FOR CLARITY.

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Graphic Scale

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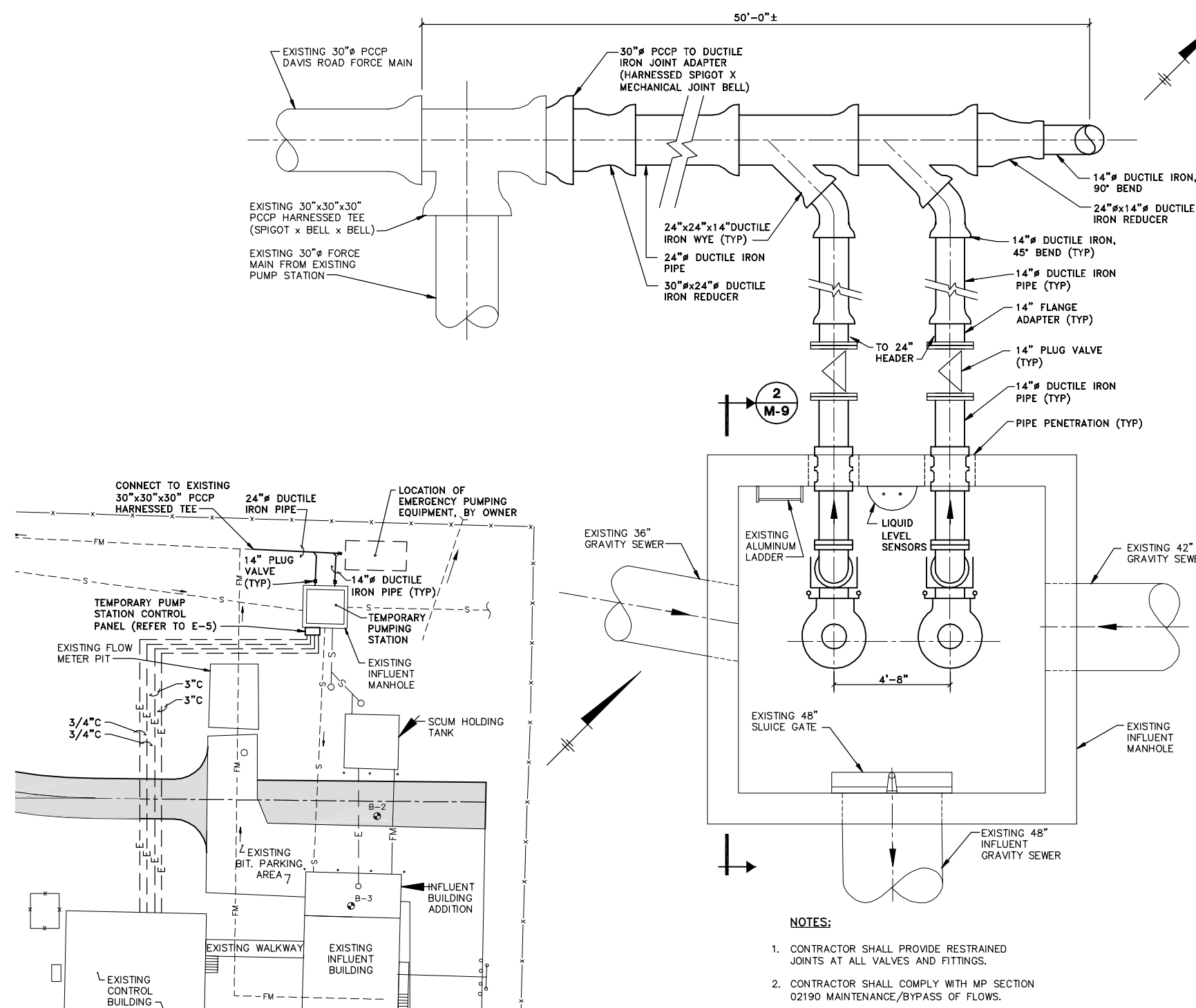
Project Mgr. JCP
 Designed by WFF
 Drawn by GMS/DCC
 Checked by JCP
 Prof. Eng. DONALD GEISSER
 PE License N.Y. 57879

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 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION
CHEMICAL STORAGE BUILDING
CHEMICAL FEED SCHEMATIC
 MECHANICAL

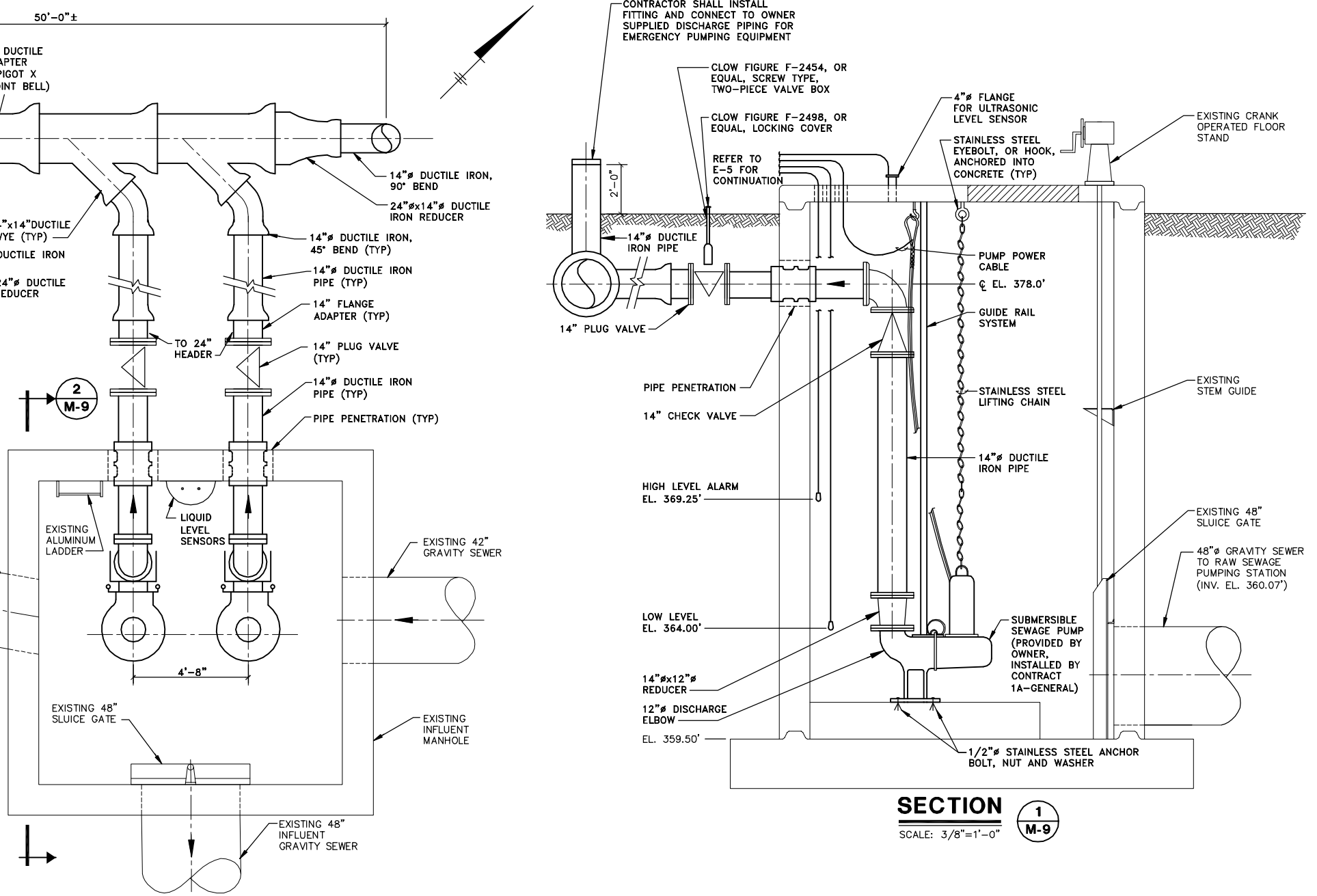
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 315-446-9120

M-8



PARTIAL SITE PLAN

SCALE: 1"=20'



SECTION 1

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

NOTES:

1. CONTRACTOR SHALL PROVIDE RESTRAINED JOINTS AT ALL VALVES AND FITTINGS.
2. CONTRACTOR SHALL COMPLY WITH MP SECTION 02190 MAINTENANCE/BYPASS OF FLOWS.

PLAN

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

GENERAL NOTES:

1. CONTRACT 1B-ELECTRICAL SHALL REFER TO TEMPORARY PUMP STATION INSTRUMENT DIAGRAM ON E-5.
2. ALL ELECTRICAL SHOWN ON THIS SHEET SHALL BE FURNISHED AND INSTALLED BY CONTRACT 1B-ELECTRICAL.
3. HIGH LEVEL FLOAT, LOW LEVEL FLOAT AND ULTRASONIC LEVEL SENSOR SHALL BE FURNISHED AND INSTALLED BY CONTRACT 1A-GENERAL.

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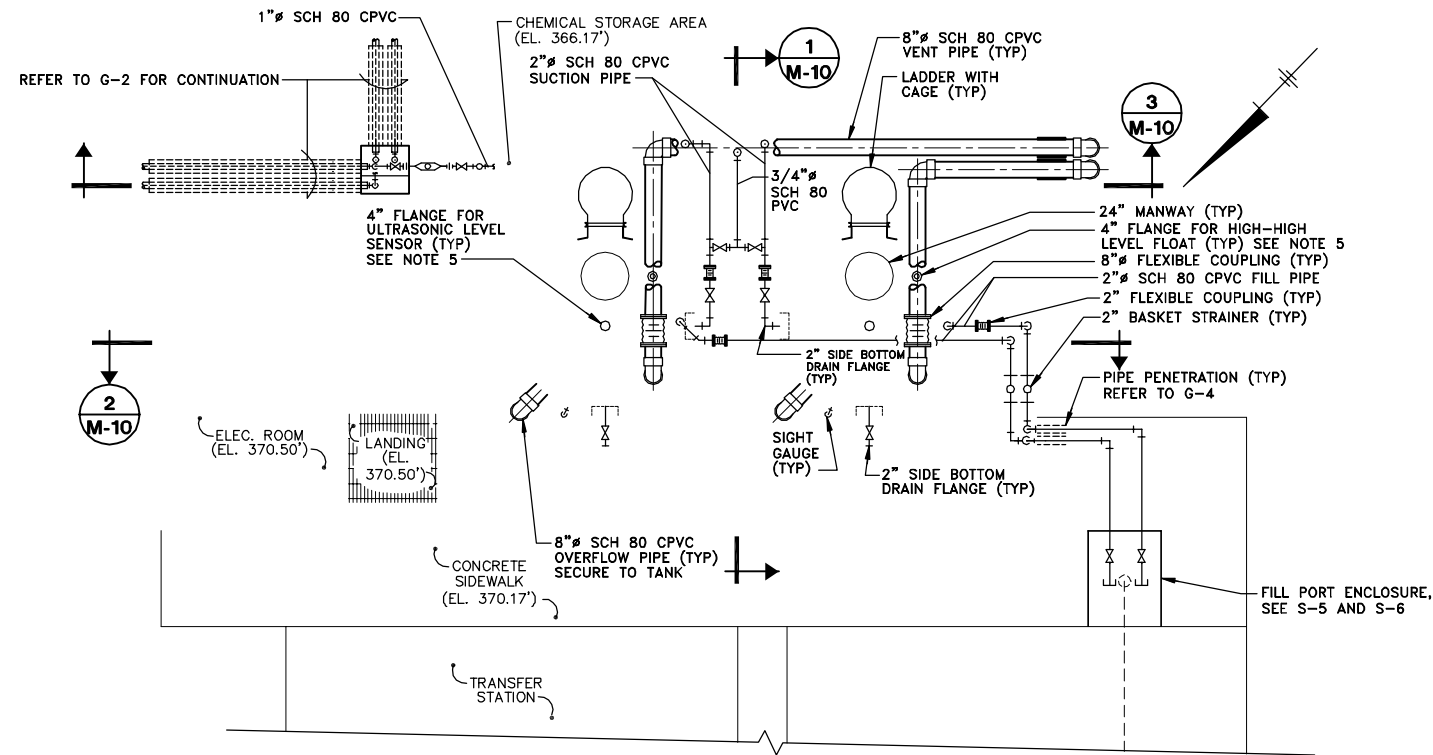
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 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

**DAVIS ROAD PUMP STATION
 TEMPORARY PUMP STATION
 SITE PLAN, PLAN AND SECTION**

MECHANICAL

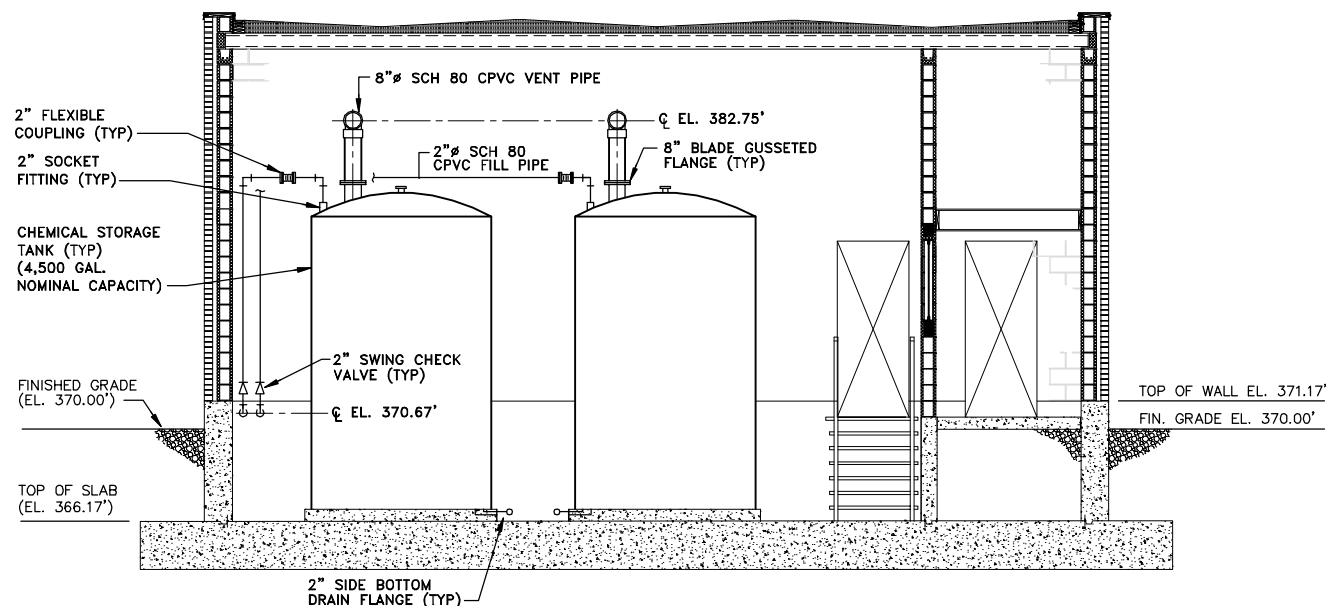
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M-9



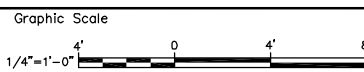
- NOTES:**
1. ALL FLUSHING WATER PIPING SHALL BE SCH 80 PVC.
 2. REFER TO P-1 FOR FLUSHING WATER PIPING AND VALVES TO BE FURNISHED AND INSTALLED BY CONTRACT 1D - PLUMBING.

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



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

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PE License	N.Y. 57879

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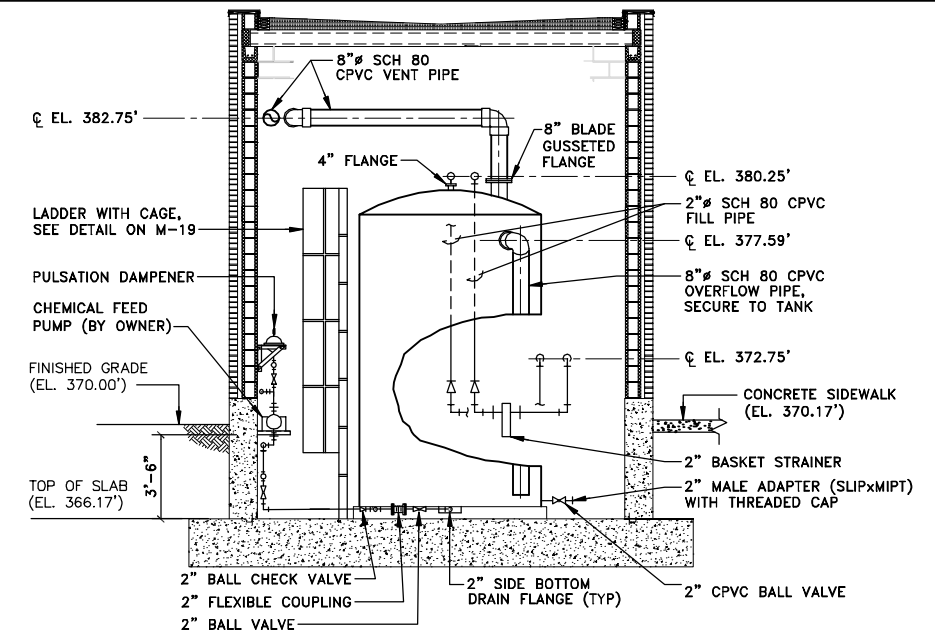
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

DAVIS ROAD PUMP STATION
CHEMICAL STORAGE BUILDING
PLAN AND SECTIONS
MECHANICAL

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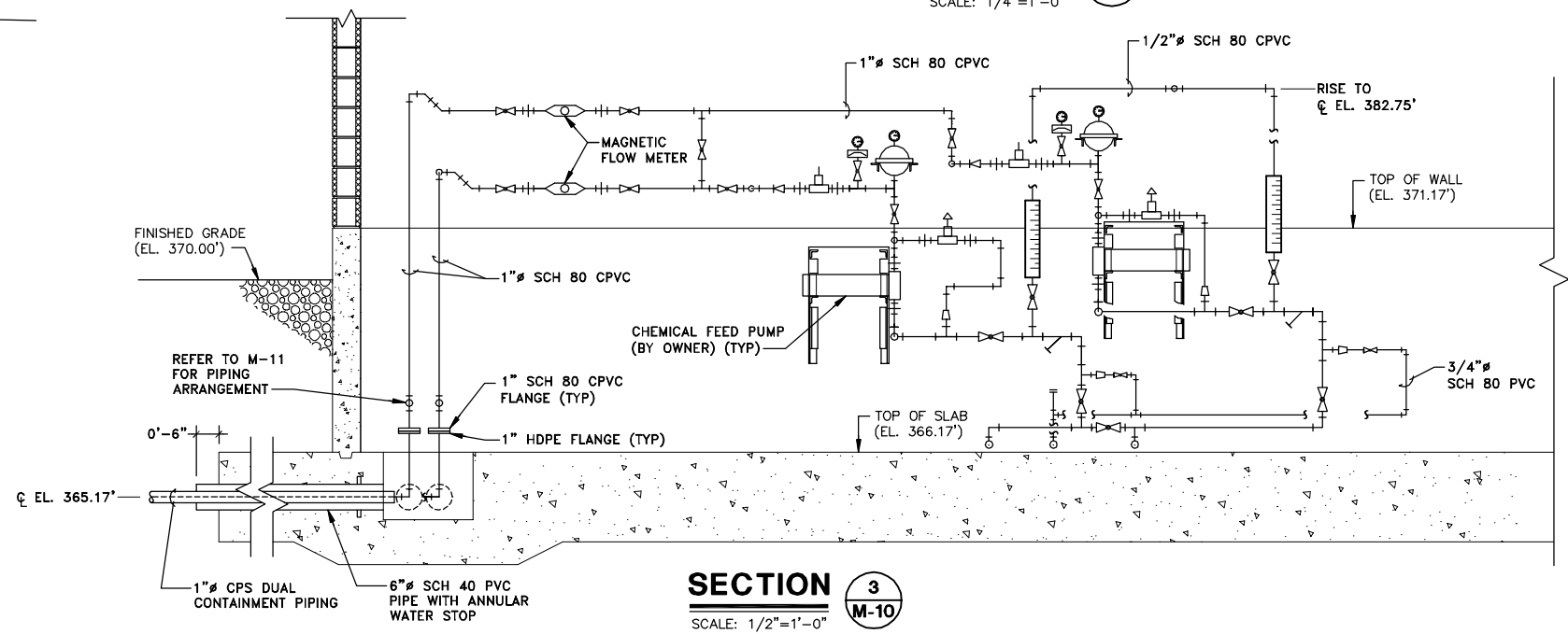
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M-10



- NOTE:**
1. REFER TO CHEMICAL FEED PUMP INSTALLATION DETAIL ON M-22.

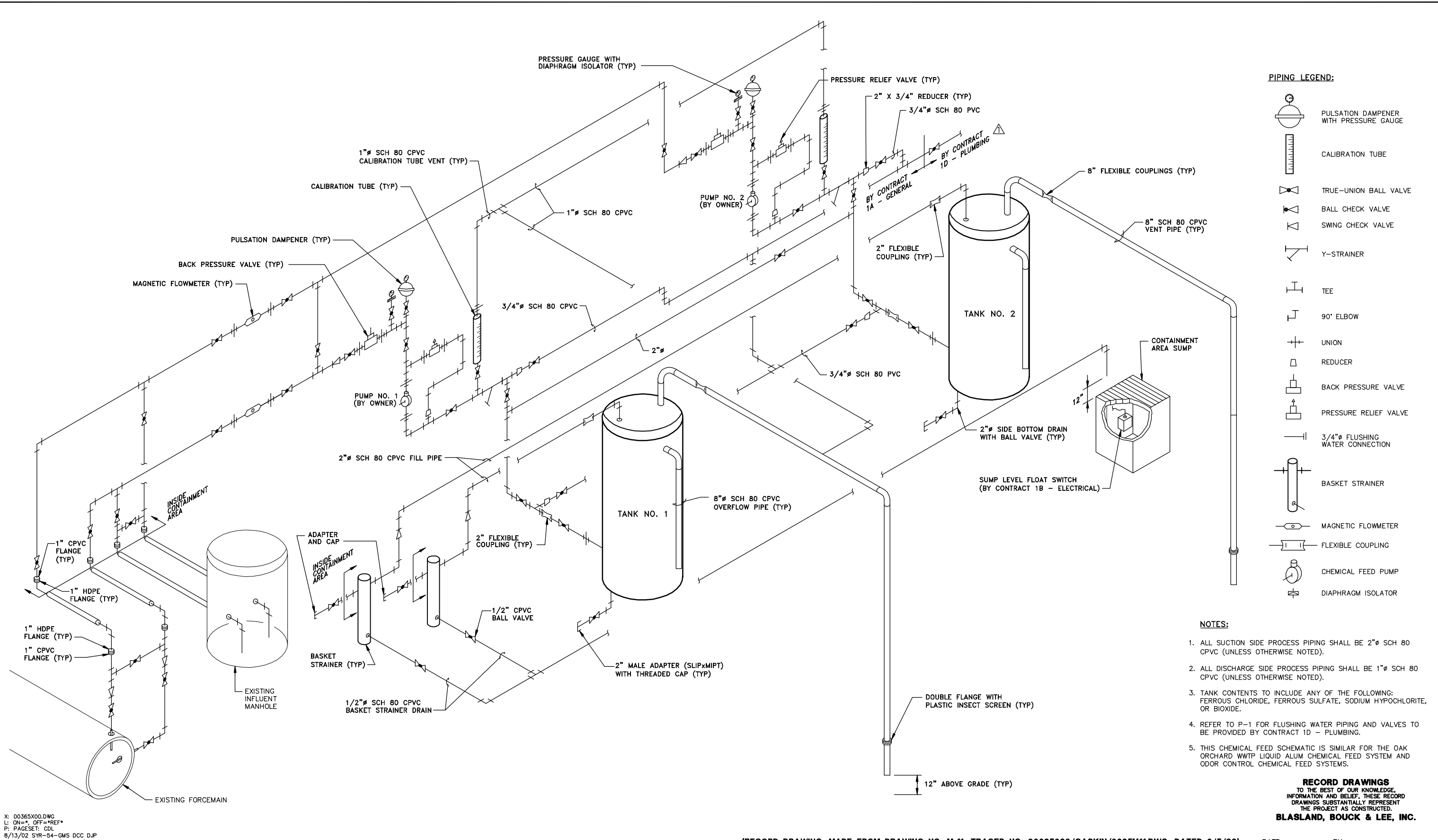
SECTION 1
SCALE: 1/4"=1'-0"



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

GENERAL NOTES:

1. ALL FLANGES SHALL RECEIVE A 1/8" VITON GASKET.
2. ALL FASTENERS SHALL BE NON-METALLIC.
3. ALL PIPING SHALL BE SUPPORTED AT 3'-0" INTERVALS HORIZONTAL AND VERTICAL, AND AT ALL CHANGES IN DIRECTION.
4. REFER TO M-11 FOR TYPICAL CHEMICAL FEED SYSTEM PROCESS SCHEMATIC AND PIPING SYMBOL DEFINITIONS.
5. CONTRACT 1A - GENERAL SHALL PROVIDE INSTRUMENTATION AND CONTROL PANELS. SEE E-10.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CHEMICAL FEED SYSTEM COMPONENTS, SHOWN ON, AND IN ACCORDANCE WITH, THE TYPICAL CHEMICAL FEED SYSTEM PROCESS SCHEMATIC ON M-11.



PIPING LEGEND:

	PULSATION DAMPENER WITH PRESSURE GAUGE
	CALIBRATION TUBE
	TRUE-UNION BALL VALVE
	BALL CHECK VALVE
	SWING CHECK VALVE
	Y-STRAINER
	TEE
	90° ELBOW
	UNION
	REDUCER
	BACK PRESSURE VALVE
	PRESSURE RELIEF VALVE
	3/4" FLUSHING WATER CONNECTION
	BASKET STRAINER
	MAGNETIC FLOWMETER
	FLEXIBLE COUPLING
	CHEMICAL FEED PUMP
	DIAPHRAGM ISOLATOR

- NOTES:**
1. ALL SUCTION SIDE PROCESS PIPING SHALL BE 2" SCH 80 CPVC (UNLESS OTHERWISE NOTED).
 2. ALL DISCHARGE SIDE PROCESS PIPING SHALL BE 1" SCH 80 CPVC (UNLESS OTHERWISE NOTED).
 3. TANK CONTENTS TO INCLUDE ANY OF THE FOLLOWING: FERROUS CHLORIDE, FERROUS SULFATE, SODIUM HYPOCHLORITE, OR BIOXIDE.
 4. REFER TO P-1 FOR FLUSHING WATER PIPING AND VALVES TO BE PROVIDED BY CONTRACT 1D - PLUMBING.
 5. THIS CHEMICAL FEED SCHEMATIC IS SIMILAR FOR THE OAK ORCHARD WWTP LIQUID ALUM CHEMICAL FEED SYSTEM AND ODOR CONTROL CHEMICAL FEED SYSTEMS.

RECORD DRAWINGS
 TO THE BEST OF OUR KNOWLEDGE,
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BLASLAND, BOUCK & LEE, INC.

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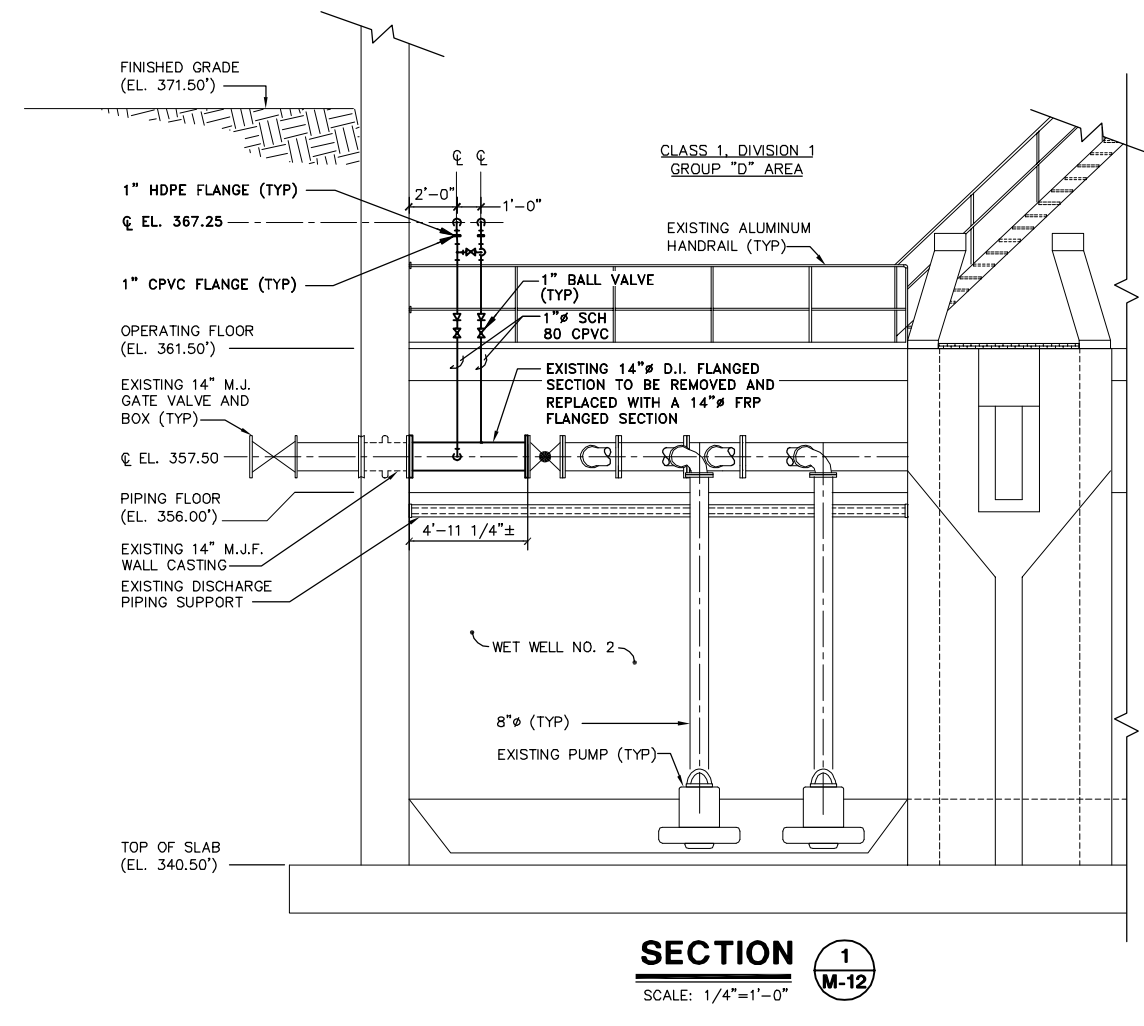
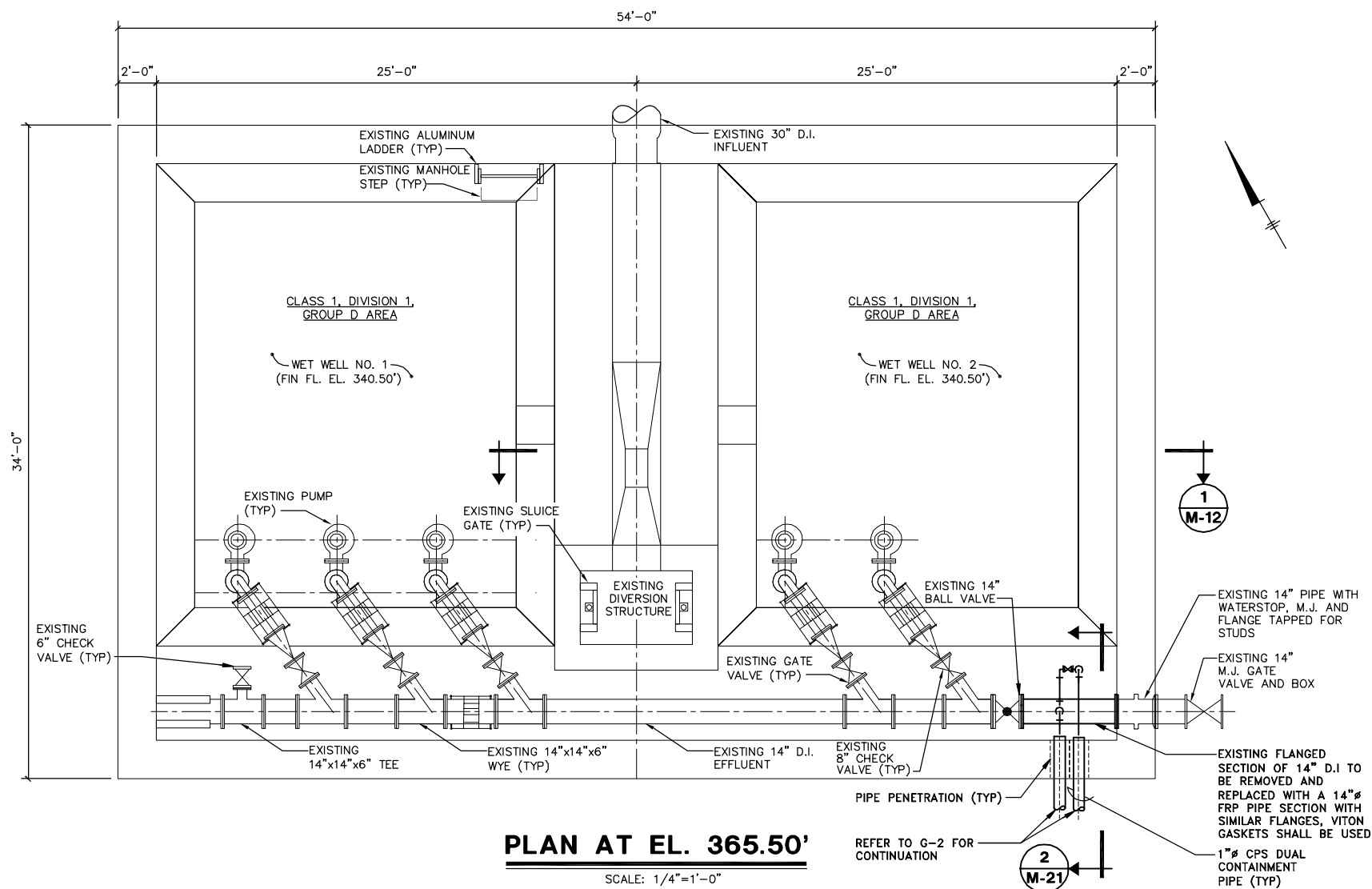
Project Mgr. --- JCP ---
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 Drawn by --- GMS ---
 Checked by --- JCP ---
 Prof. Eng. --- DONALD GEISSER ---
 PE License --- N.Y. 57879 ---

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION
CHEMICAL STORAGE BUILDING
CHEMICAL FEED SCHEMATIC
 MECHANICAL

File Number
 003.65.006
 Date
 AUGUST 2002
 Blasland, Bouck & Lee, Inc.
 Corporate Headquarters
 6723 Towpath Road
 Syracuse, NY 13214
 315-446-9120

M-11



- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY ACTUAL LENGTH REQUIRED FOR 14"Ø FRP FLANGED SECTION.
 - CONTRACTOR SHALL FIELD VERIFY EXISTING FLANGE SIZES ON 14"Ø D.I. PIPE AND PROVIDE FRP FLANGED SECTION TO MATE TO EXISTING FLANGES.
 - CONTRACTOR SHALL SUBMIT FOR ENGINEERS APPROVAL A DETAILED SHOP DRAWING OF THE FLANGED SECTION WITH FIBERGLASS NIPPLES.
 - CONTRACTOR SHALL COORDINATE WITH OWNER THE SHUTDOWN REQUIRED TO REMOVE AND REPLACE THE 14"Ø FLANGED SECTION.

RECORD DRAWINGS
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1/4"=1'-0"				

Project Mgr. JCP
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PE License N.Y. 57879

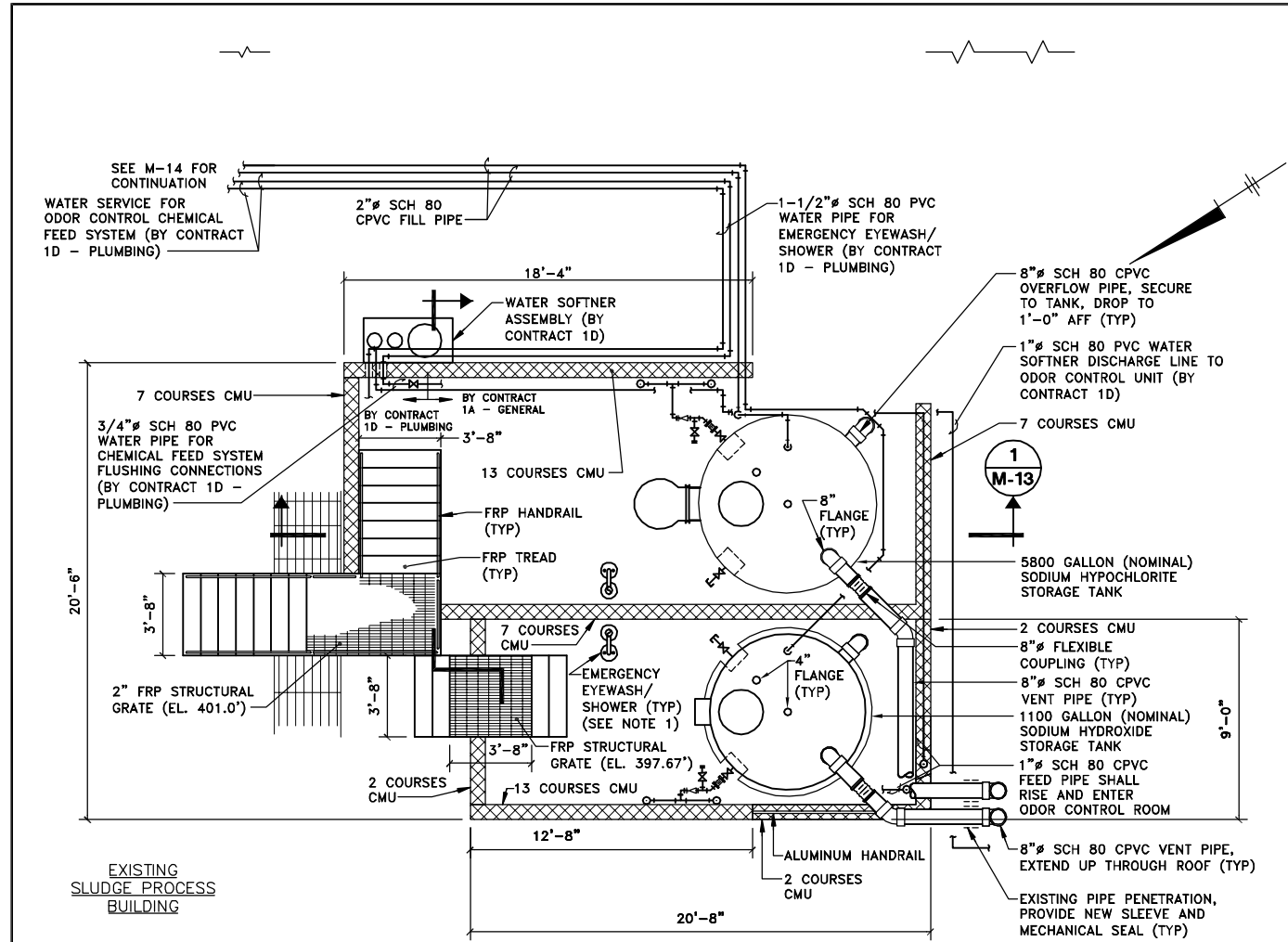
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
EXISTING PUMPING STATION
PLAN AND SECTION
MECHANICAL

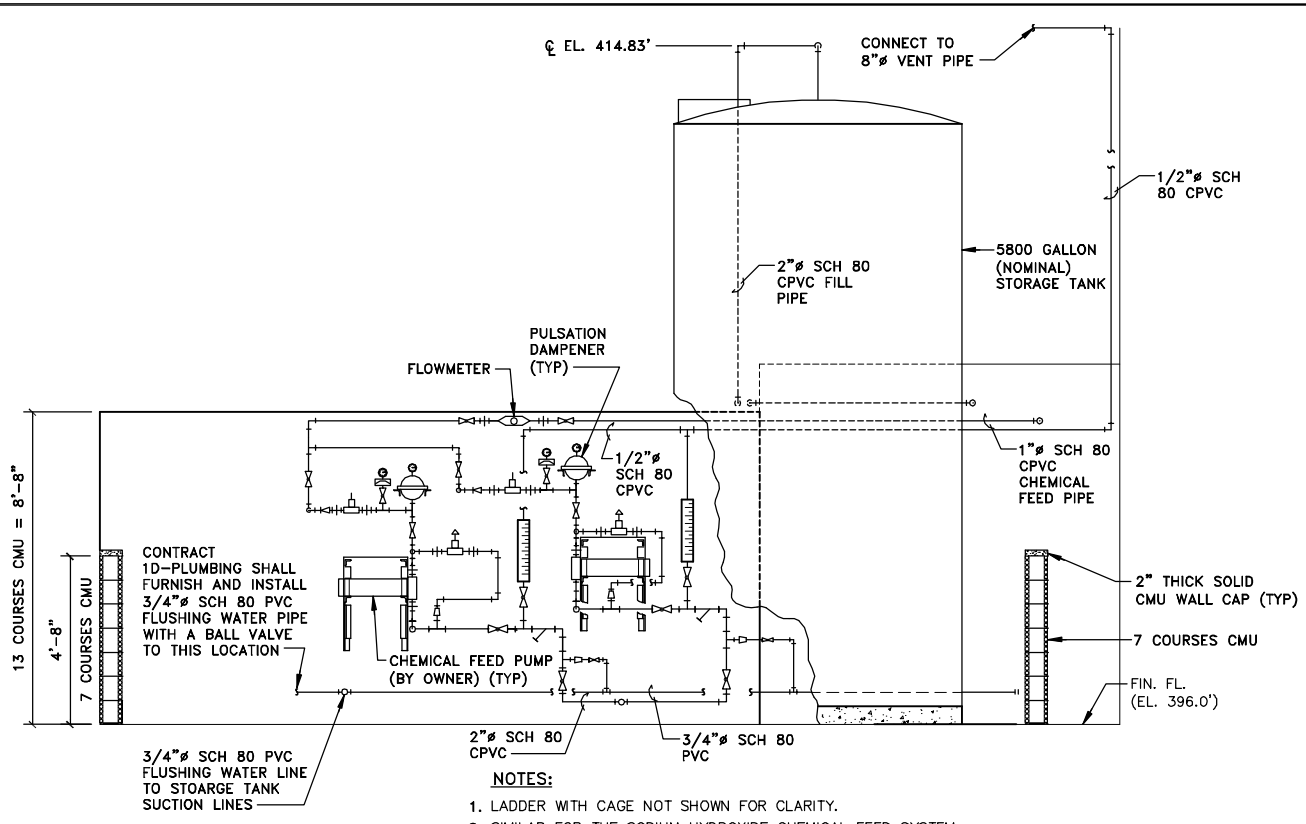
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M-12



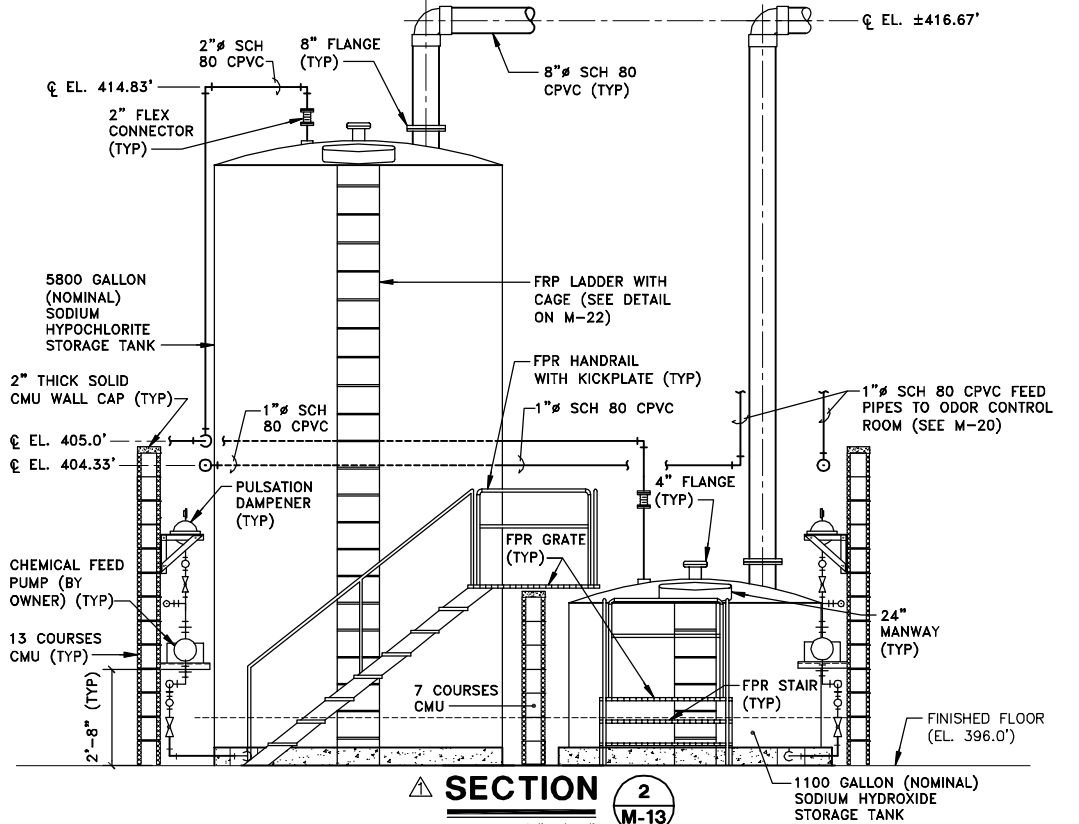
PLAN
SCALE: 1/4"=1'-0"

- NOTES:**
- EMERGENCY EYEWASH/SHOWERS AND APPURTENANT WATER PIPING SHALL BE FURNISHED AND INSTALLED BY CONTRACT 1D-PLUMBING. A 1-1/2" PVC WATER PIPE SHALL BE ROUTED FROM THE LOCATION INDICATED ON THE CONTRACT DRAWINGS.
 - CONTRACT 1D-PLUMBING SHALL ALSO PROVIDE A THREADED TEE AT EACH EYEWASH/SHOWER FOR A FLOW SWITCH (BY CONTRACT 1A-GENERAL).
 - CONTRACT 1A-GENERAL SHALL USE 3/4" SCH 80 PVC TO HARD PIPE TO THE FLUSHING WATER CONNECTION (PIPING NOT SHOWN FOR CLARITY).
 - EXISTING FLOOR DRAINS LOCATED WITHIN THE CONTAINMENT AREA SHALL BE FILLED SOLID WITH GROUT.
 - CONCRETE CONTAINMENT AREA FLOORS AND WALLS SHALL BE COATED IN ACCORDANCE WITH SECTION 3.08.A.7 OF MP SECTION ENTITLED "PAINTING", TO TOP OF CONTAINMENT WALL.
 - ALL CMU WALLS SHALL RECEIVE A 2" THICK SOLID CMU WALL CAP.
 - REFER TO CHEMICAL FEED PUMP INSTALLATION DETAIL ON M-22.
 - REFER TO CMU CONTAINMENT WALL CORNER DETAIL AND CMU CONTAINMENT WALL DETAIL ON S-13.
 - REFER TO CHEMICAL FEED SCHEMATIC ON M-11.
 - COORDINATE FILL PORT LABELS WITH TANK TO BE FILLED.
 - TANK DRAINS SHALL USE A 2" CPVC BALL VALVE WITH A 2" MALE ADAPTER (SLIPxMIPT) WITH A THREADED CAP.



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

- NOTES:**
- LADDER WITH CAGE NOT SHOWN FOR CLARITY.
 - SIMILAR FOR THE SODIUM HYDROXIDE CHEMICAL FEED SYSTEM.



SECTION 2
SCALE: 3/8"=1'-0"

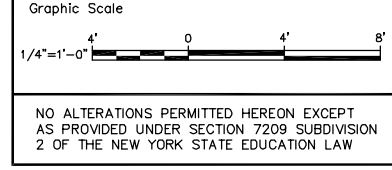
- PIPING LEGEND:**
- PULSATION DAMPENER WITH PRESSURE GAUGE
 - CALIBRATION TUBE
 - TRUE-UNION BALL VALVE
 - BALL CHECK VALVE
 - SWING CHECK VALVE
 - Y-STRAINER
 - TEE
 - 90° ELBOW
 - UNION
 - REDUCER
 - BACK PRESSURE VALVE
 - PRESSURE RELIEF VALVE
 - 3/4" FLUSHING WATER CONNECTION
 - MAGNETIC FLOWMETER
 - FLEXIBLE COUPLING
 - CHEMICAL FEED PUMP
 - DIAPHRAGM ISOLATOR

GENERAL NOTE:

- ALL WORK BY CONTRACT 1A-GENERAL UNLESS NOTED OTHERWISE.

RECORD DRAWINGS
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Designed by --- SS/WFF
Drawn by --- RJM
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

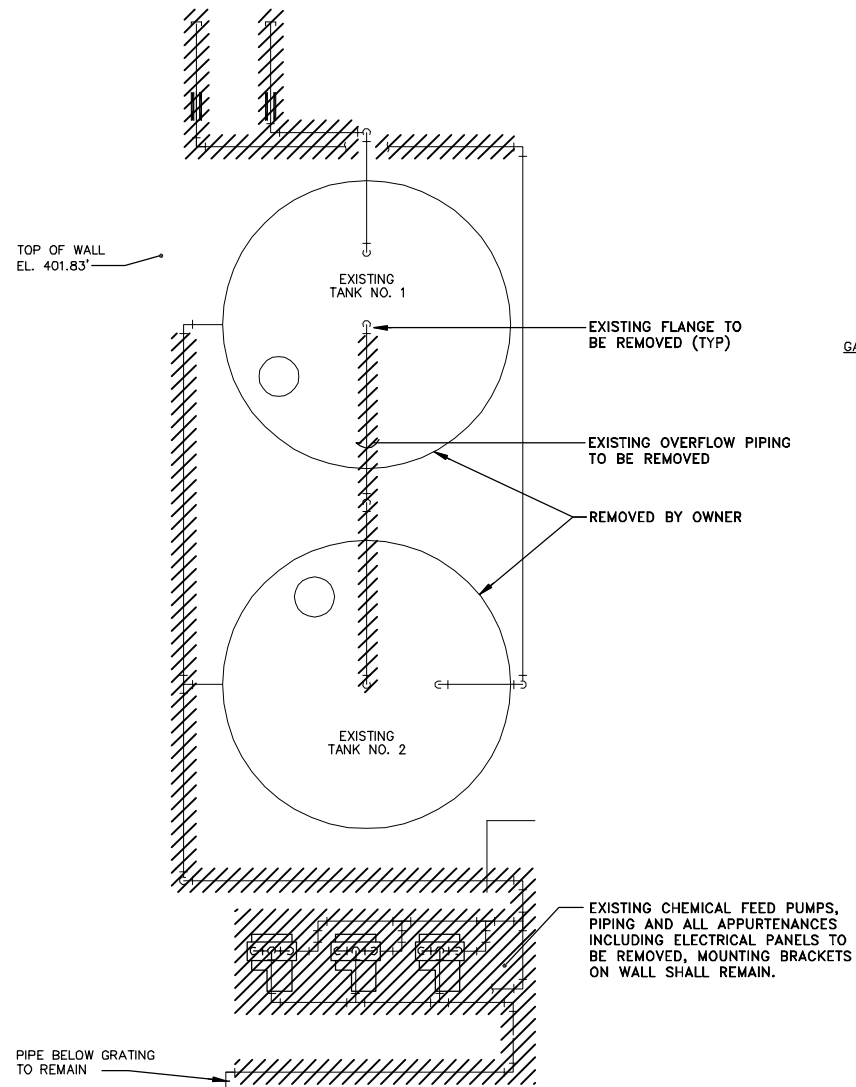
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
ODOR CONTROL CHEMICAL FEED SYSTEM
PLAN AND SECTIONS
MECHANICAL

File Number
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AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
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M-13

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DEMOLITION PLAN

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

NOTE:

- CONTRACTOR IS RESPONSIBLE FOR PROPER OFF-SITE DISPOSAL OF ALL REMOVED ITEMS.

GENERAL NOTE:

- ALL WORK BY CONTRACT 1A-GENERAL UNLESS NOTED OTHERWISE.

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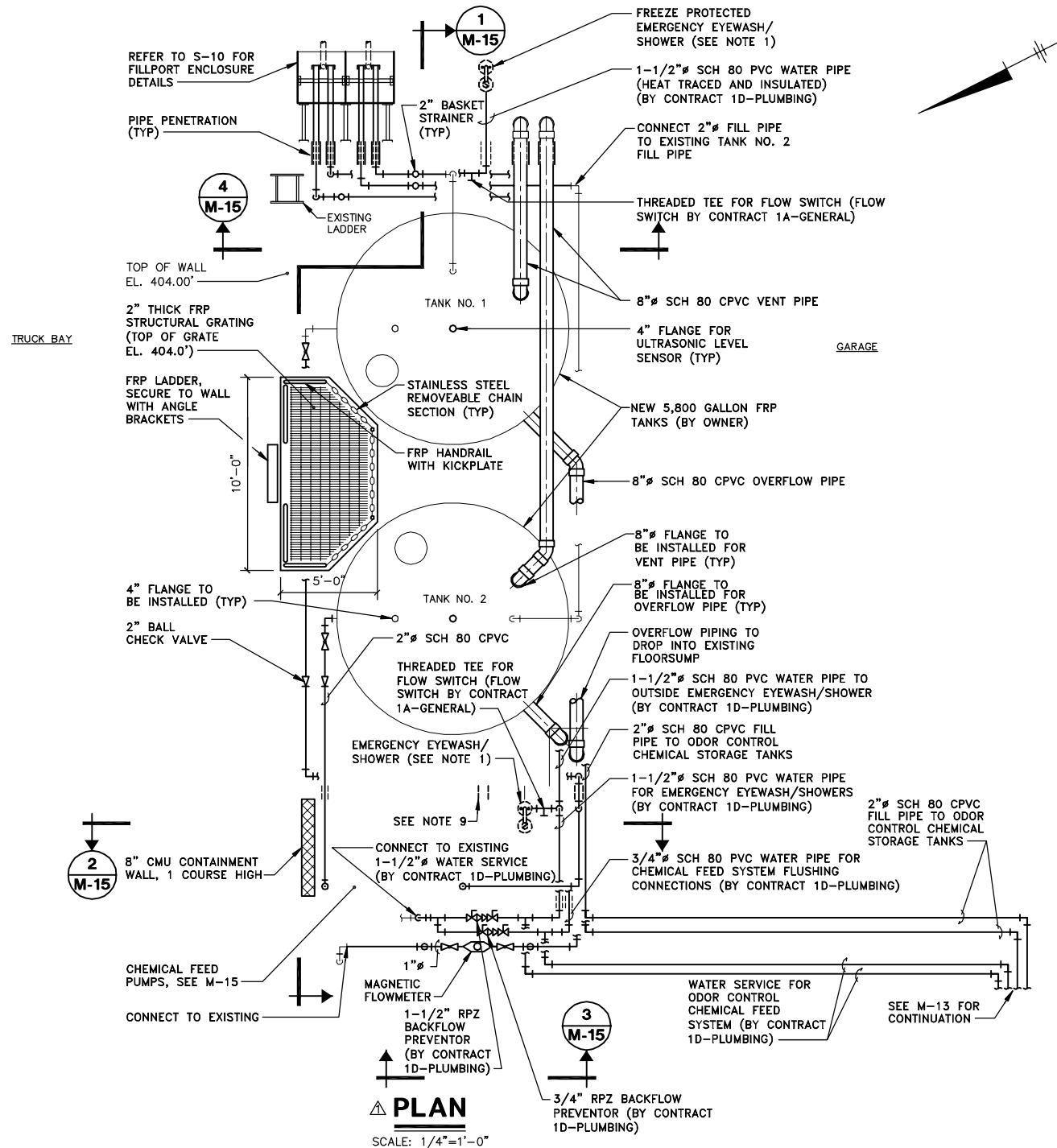
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

**DAVIS ROAD PUMP STATION
LIQUID ALUM CHEMICAL STORAGE
PLANS**
MECHANICAL

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
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M-14

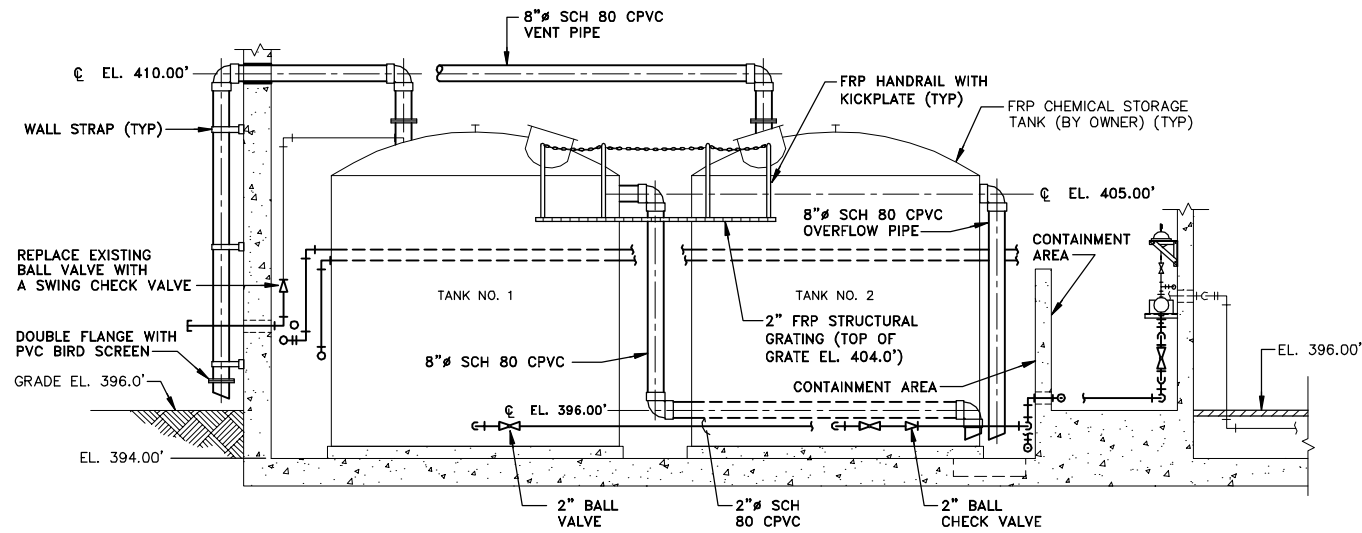


PLAN

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

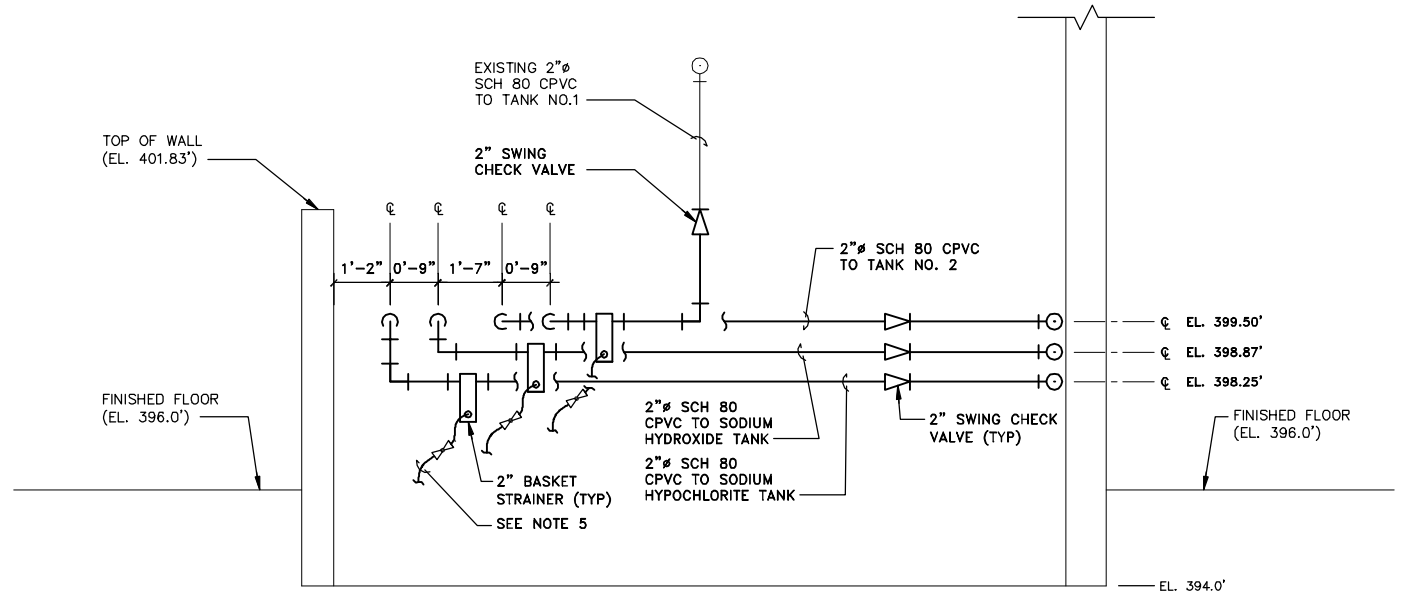
NOTES:

- EMERGENCY EYEWASH/SHOWERS AND APPURTENANT WATER PIPING SHALL BE FURNISHED AND INSTALLED BY CONTRACT 1D-PLUMBING. A 1-1/2" SCH 80 PVC WATER PIPE SHALL BE ROUTED FROM THE LOCATION INDICATED ON THE CONTRACT DRAWINGS.
- CONTRACT 1D-PLUMBING SHALL ALSO PROVIDE A THREADED TEE AT EACH EYEWASH/SHOWER FOR A FLOW SWITCH (BY CONTRACT 1A-GENERAL).
- CONTRACT 1A-GENERAL SHALL USE 3/4" SCH 80 PVC TO HARD PIPE TO THE FOUR FLUSHING WATER CONNECTIONS (PIPING NOT SHOWN FOR CLARITY).
- CHEMICAL FEED SYSTEM PIPE SHALL BE SCH 80 CPVC, SIZE AS INDICATED. ALL FLUSHING WATER PIPE SHALL BE SCH 80 PVC.
- PIPING AND MODIFIED PIPING SHALL BE FIRMLY SUPPORTED IN ACCORDANCE WITH MP-15094.
- BASKET STRAINER DRAINS SHALL BE PROVIDED WITH A 1/2" BALL VALVE AND 20" OF 1/2" FLEXIBLE TYGON, OR EQUAL, TUBING.
- THE CHEMICAL STORAGE AREA AND CHEMICAL FEED PUMP AREA FLOORS AND WALLS SHALL BE RECONDITIONED IN ACCORDANCE WITH SECTION 3.08.A.7 OF MP-09900.
- CONTRACTOR SHALL SUBMIT TO ENGINEER FOR REVIEW THE TANK CONNECTORS TO BE USED, AS RECOMMENDED BY THE EXISTING TANK MANUFACTURER.
- CONTRACTOR SHALL CORE A 2" HOLE, INV. EL. 396.00'.
- CMU WALL SHALL RECEIVE A 3" THICK SOLID CMU WALL CAP.
- REFER TO CMU CONTAINMENT WALL DETAIL ON S-13.
- REFER TO CHEMICAL FEED SCHEMATIC ON M-11.
- COORDINATE FILL PORT LABELS WITH TANK TO BE FILLED.
- TANK DRAINS SHALL USE A 2" CPVC BALL VALVE WITH A 2" MALE ADAPTER (SLIPxMIPT) WITH A THREADED CAP.



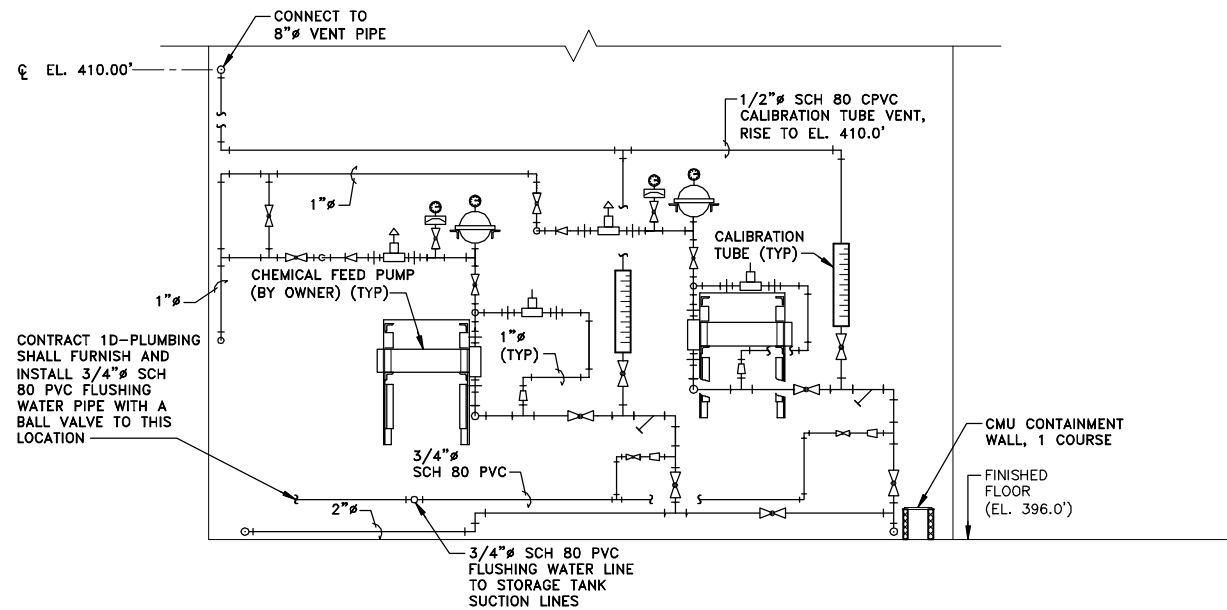
- NOTES:**
1. STAIRS AND LADDERS NOT SHOWN FOR CLARITY.
 2. CONCRETE CONTAINMENT AREA SHALL BE COATED IN ACCORDANCE WITH SECTION 3.08.A.7 OF MP SECTION ENTITLED PAINTING.

SECTION 1
SCALE: 1/4"=1'-0"
M-14



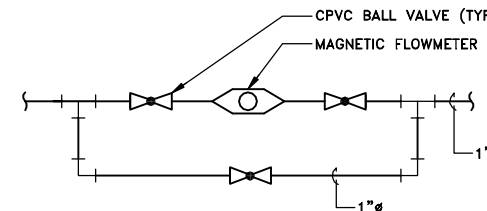
- NOTE:**
1. FREEZE PROTECTED EMERGENCY EYEWASH/SHOWER WATER PIPES NOT SHOWN FOR CLARITY.

SECTION 4
NOT TO SCALE
M-14



- NOTES:**
1. HANDRAIL AND KICKPLATE NOT SHOWN FOR CLARITY.

SECTION 2
SCALE: 1/2"=1'-0"
M-14



- NOTE:**
1. WATER SERVICE CONNECTION AND PIPE APPURTENANCES NOT SHOWN FOR CLARITY.

SECTION 3
NOT TO SCALE
M-14

GENERAL NOTES:

1. PIPE SHALL BE SCH 80 CPVC, SIZE AS INDICATED.
2. CONTRACTOR IS RESPONSIBLE FOR PROPER OFF-SITE DISPOSAL OF ALL REMOVED ITEMS.
3. PIPING AND MODIFIED PIPING SHALL BE FIRMLY SUPPORTED IN ACCORDANCE WITH MP-15094.
4. REFER TO CHEMICAL FEED PUMP INSTALLATION DETAIL ON M-22.
5. BASKET STRAINER DRAINS SHALL BE PROVIDED WITH A 1/2" BALL VALVE AND 20' OF 1/2" FLEXIBLE TYGON, OR EQUAL, TUBING.
6. CONTRACTOR SHALL COORDINATE WITH OWNER THE PHASED UPGRADE TO THE LIQUID ALUM CHEMICAL STORAGE AND FEED FACILITIES. THE SYSTEM SHALL BE MAINTAINED AT ALL TIMES.
7. CONTRACTOR SHALL REFER TO CHEMICAL FEED SCHEMATIC ON M-11.

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No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	WFF/SS
Drawn by	GMS
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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BLASLAND, BOUCK & LEE, INC.
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(RECORD DRAWING: MADE FROM DRAWING NO. M-15, TRACER NO. 00365020/OAK/0365M15.DWG, DATED 3/4/99)

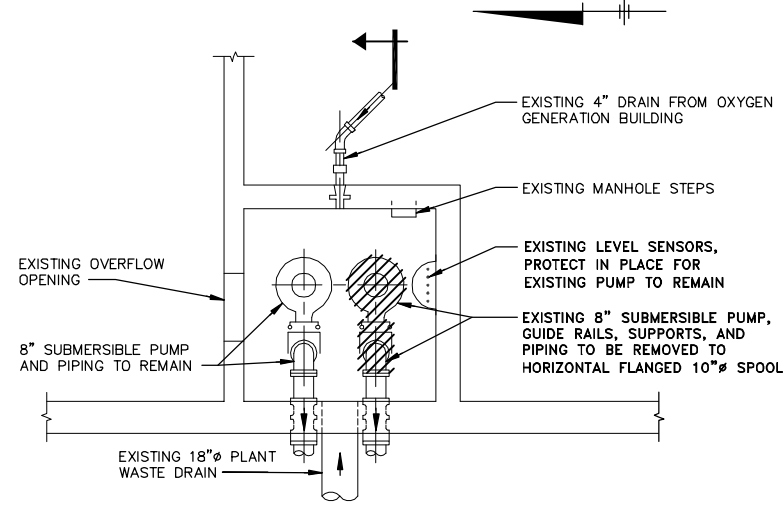
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
LIQUID ALUM CHEMICAL STORAGE SECTIONS
MECHANICAL

DATE _____ BY _____

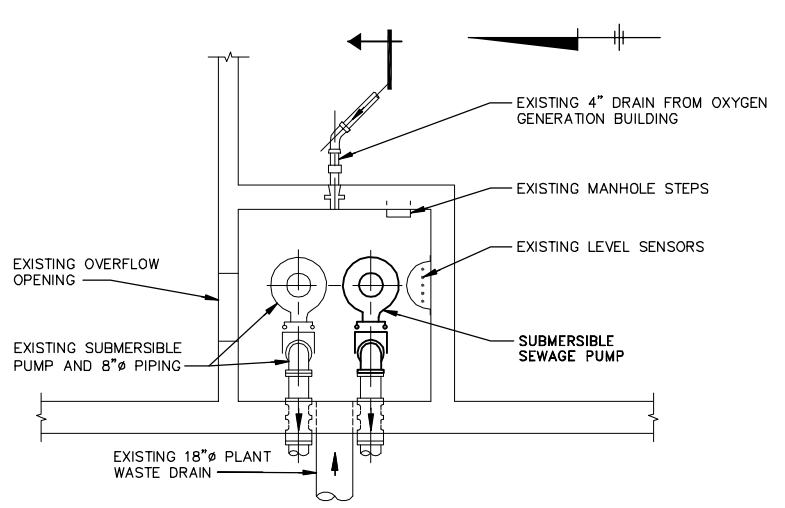
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BLASLAND, BOUCK & LEE, INC.

File Number
003.65.006
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Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
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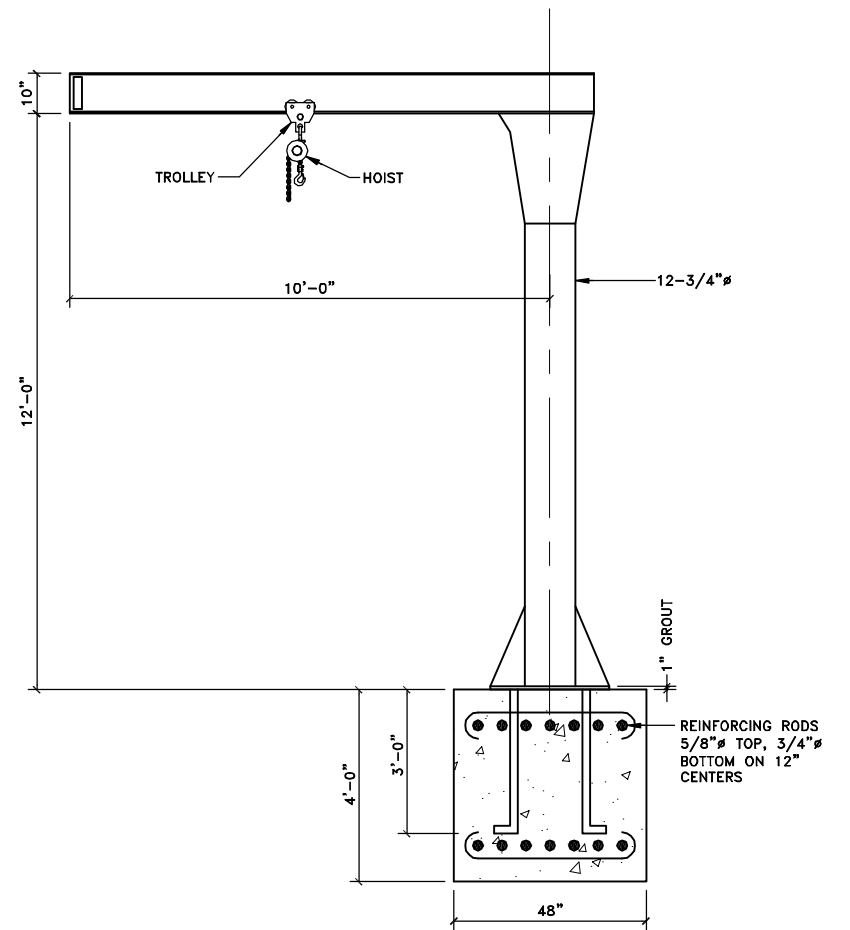
M-15



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

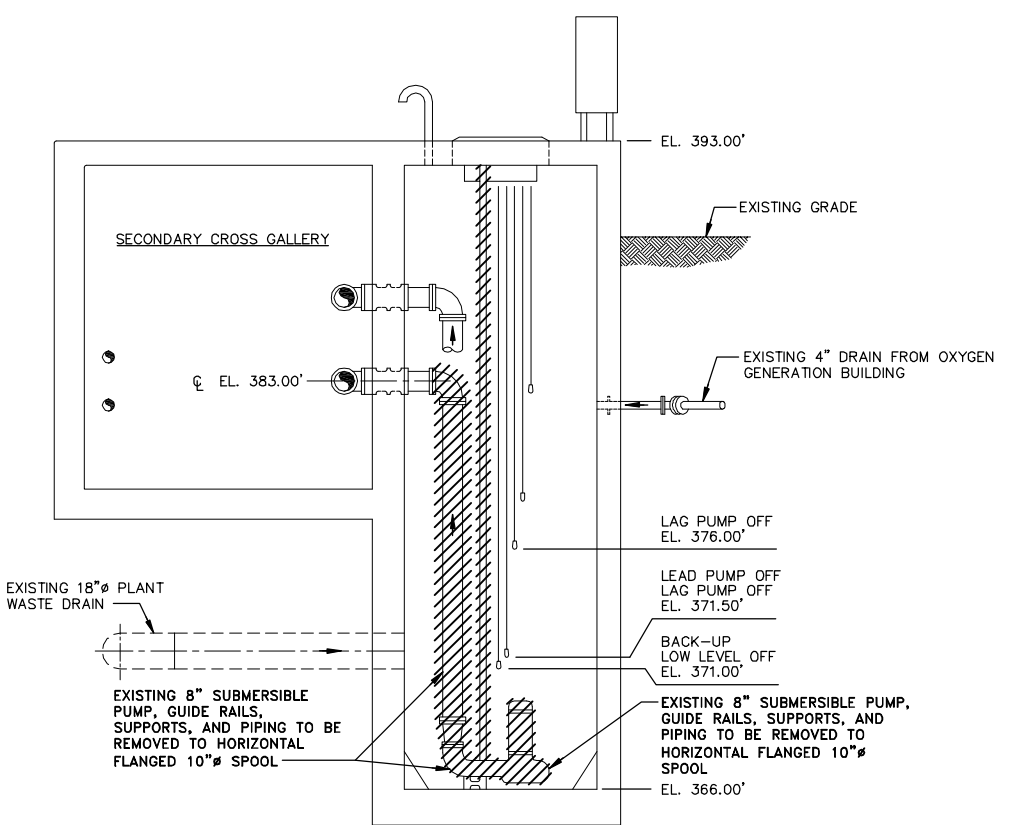


PLAN
SCALE: 1/4"=1'-0"



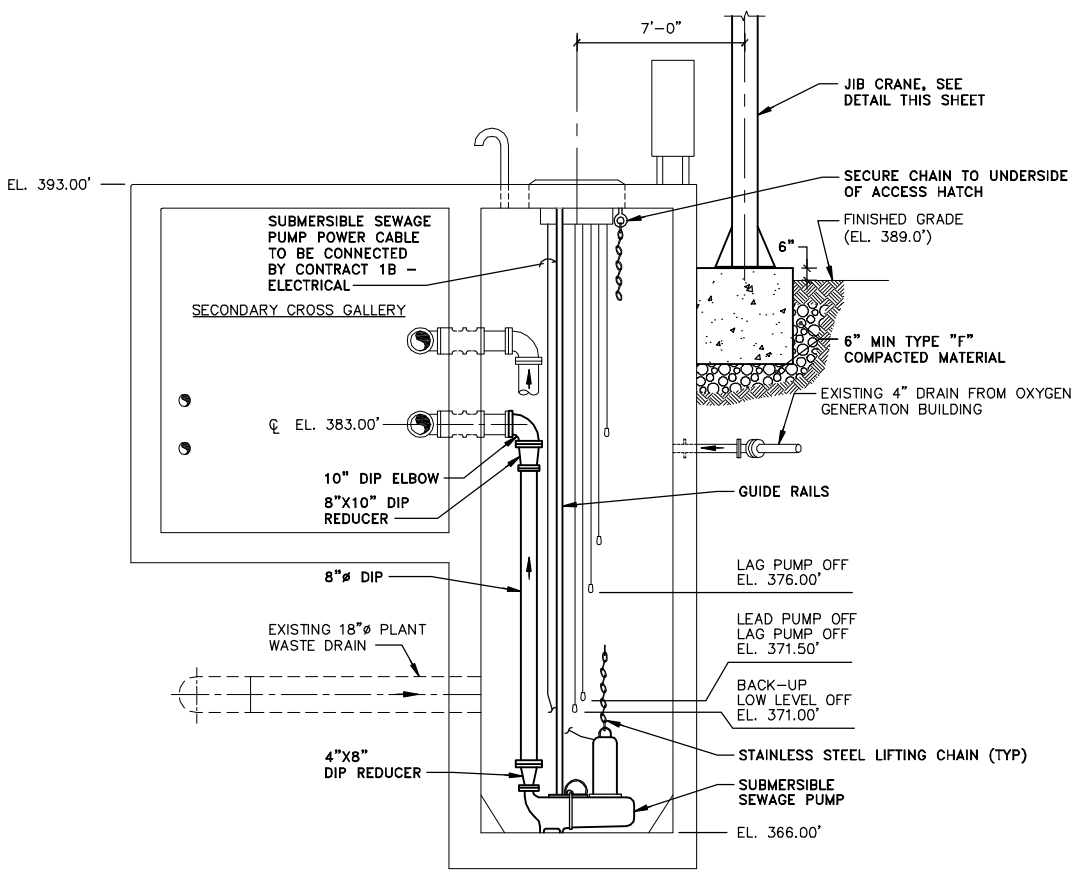
NOTE:
1. JIB CRANE SHALL BE ANCHORED TO STRUCTURAL CONCRETE PAD IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

JIB CRANE DETAIL
NOT TO SCALE



NOTE:
1. CONTRACTOR TO COORDINATE TEMPORARY SHUTDOWN OF PLANT WASTE PUMP STATION IN ACCORDANCE WITH CONTRACT DOCUMENTS.

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



NOTE:
1. REINFORCED CONCRETE PAD AND TYPE "F" STONE SHALL BE BY CONTRACT 1A--GENERAL.

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

GENERAL NOTE:
1. ALL WORK BY CONTRACT 1A - GENERAL UNLESS NOTED OTHERWISE.

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Graphic Scale
1/4"=1'-0"

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No.	Date	Revisions	Init

Project Mgr. --- JCP
Designed by --- SS
Drawn by --- GMS
Checked by --- JCP
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

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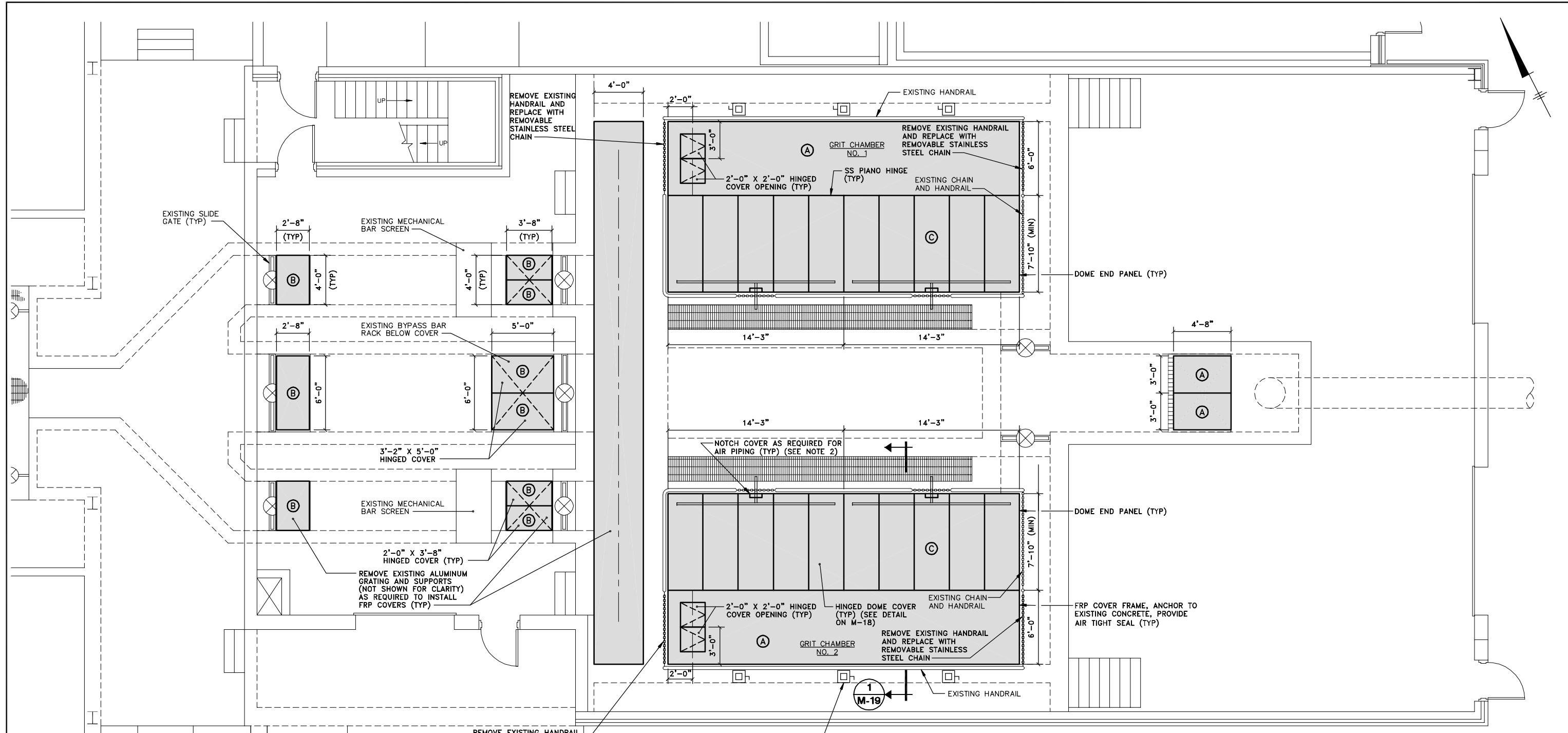
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

**PLANT WASTE PUMP STATION
PLANS, SECTIONS AND DETAIL**

MECHANICAL

File Number 003.65.006
Date AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

M-16



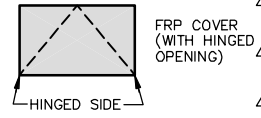
ODOR COVER PLAN
SCALE: 1/4"=1'-0"

RECORD DRAWINGS
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BLASLAND, BOUCK & LEE, INC.

DATE _____ BY _____

LEGEND:

COVER	TOP OF COVER ELEVATION
(A)	400.50' (FINISHED FLOOR)
(B)	399.00' (FINISHED FLOOR)
(C)	401.75' (TOP OF DOME)

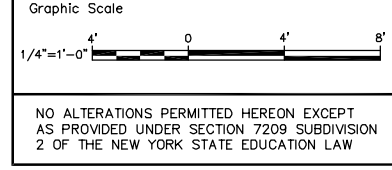


GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY ALL COVER DIMENSIONS.
- CONTRACTOR SHALL FIELD VERIFY EXISTING LOCATION OF AIR PIPING AND PROVIDE COVERS WHICH MINIMIZE AIR INFILTRATION.
- NOT ALL HANDRAILS SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY TO AVOID INTERFERENCE WITH ODOR CONTROL COVERS.
- PROCESS TANK INTERIOR CONCRETE WALLS IN AREAS WHERE ODOR CONTROL COVERS ARE TO BE INSTALLED SHALL BE COATED IN ACCORDANCE WITH SECTION 3.08.B.8 OF MP SECTION ENTITLED "PAINTING" FROM THE EXISTING WATER SURFACE ELEVATION TO A DISTANCE 6" ABOVE THE ODOR CONTROL COVER (WHERE APPLICABLE).

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(RECORD DRAWING: MADE FROM DRAWING NO. M-17, TRACER NO. 00365020/OAK/0365M17.DWG, DATED 3/4/99)



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1	3/8/99	GENERAL REVISIONS	

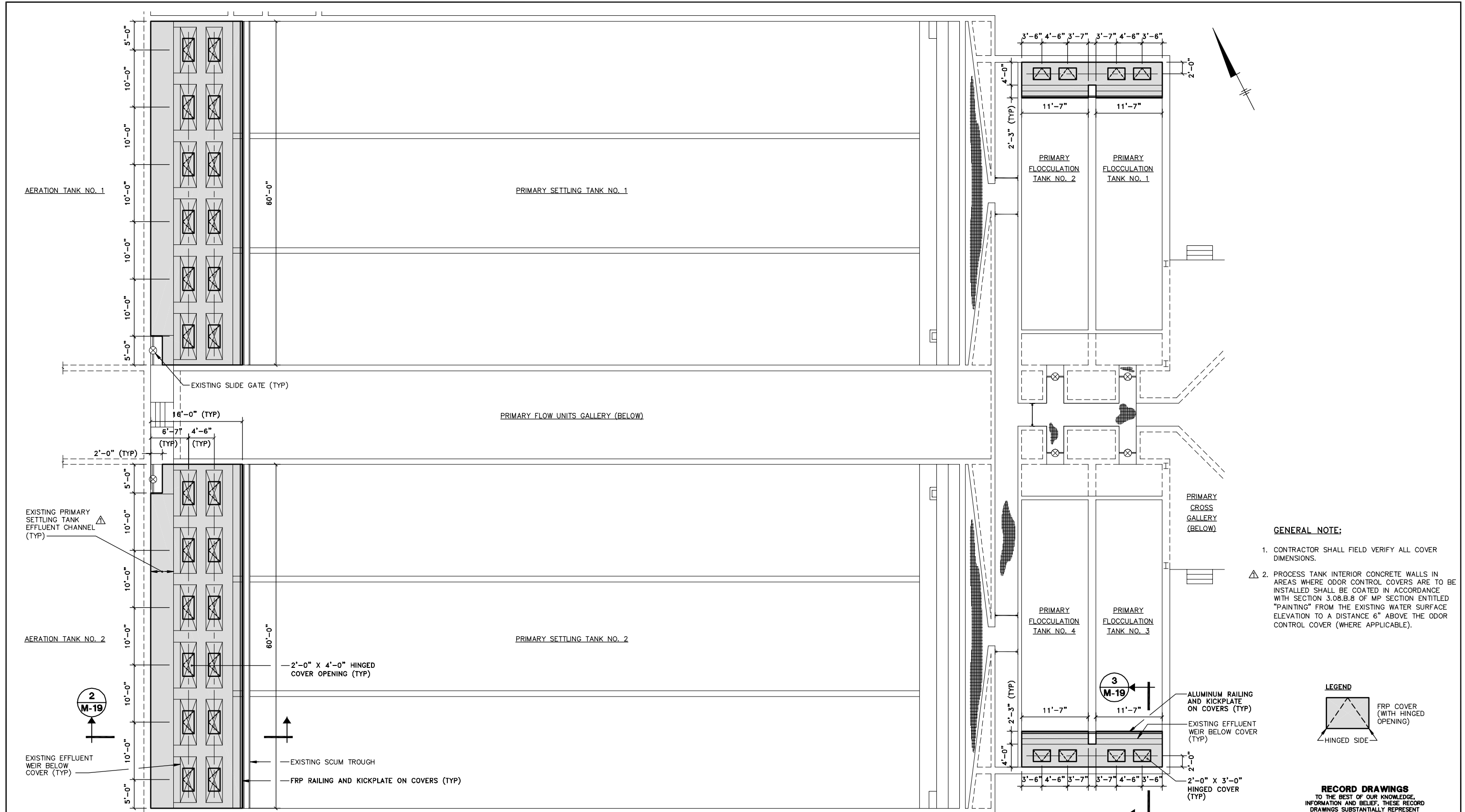
Project Mgr.	JCP
Designed by	SS
Drawn by	DCC
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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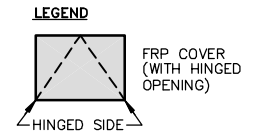
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
SCREEN AND GRIT BUILDING
ODOR COVER PLAN
MECHANICAL

File Number
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Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

M-17



- GENERAL NOTE:**
1. CONTRACTOR SHALL FIELD VERIFY ALL COVER DIMENSIONS.
 2. PROCESS TANK INTERIOR CONCRETE WALLS IN AREAS WHERE ODOR CONTROL COVERS ARE TO BE INSTALLED SHALL BE COATED IN ACCORDANCE WITH SECTION 3.08.B.8 OF MP SECTION ENTITLED "PAINTING" FROM THE EXISTING WATER SURFACE ELEVATION TO A DISTANCE 6" ABOVE THE ODOR CONTROL COVER (WHERE APPLICABLE).



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ODOR COVER PLAN

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

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Graphic Scale

1/8"=1'-0"

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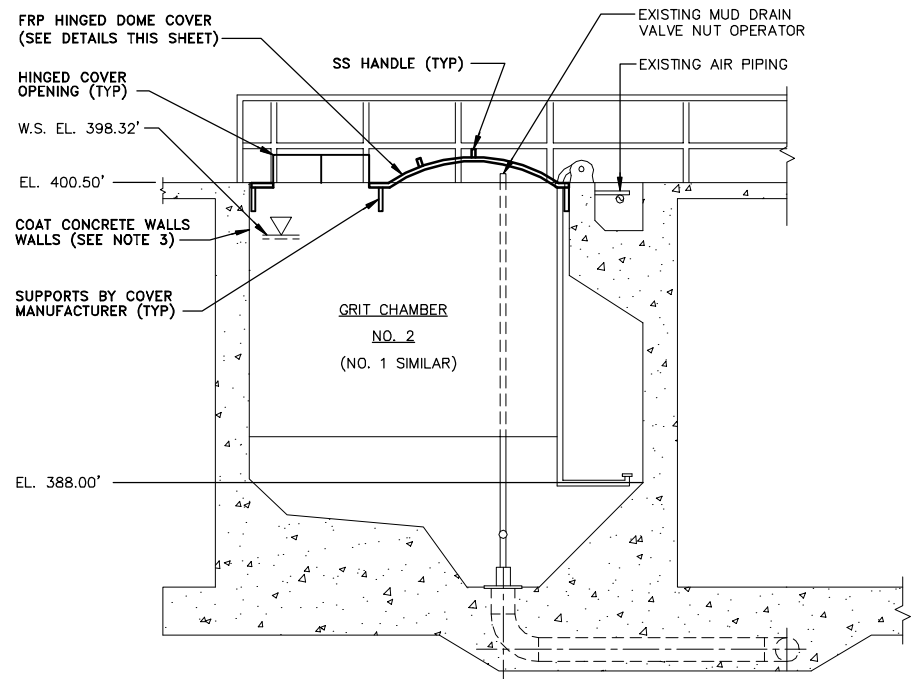
Project Mgr.	JCP
Designed by	SS
Drawn by	DCC
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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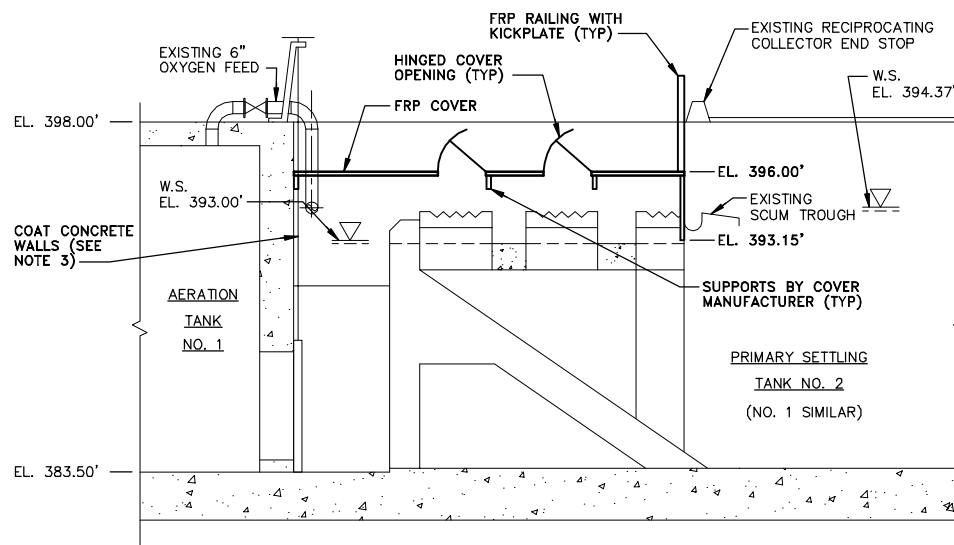
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
PRIMARY FLOW UNITS
ODOR COVER PLAN
MECHANICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

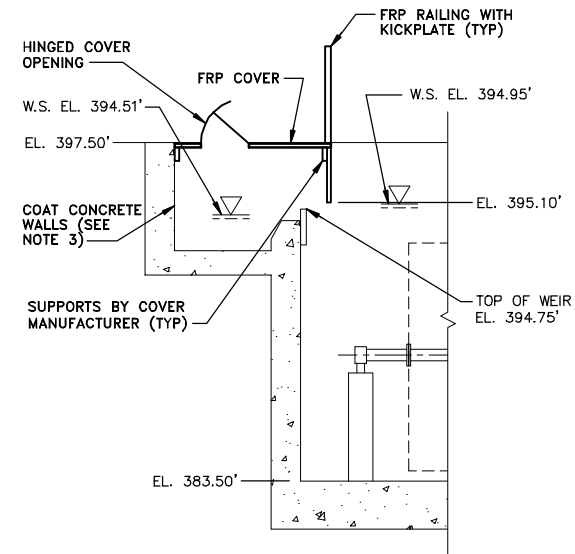
M-18



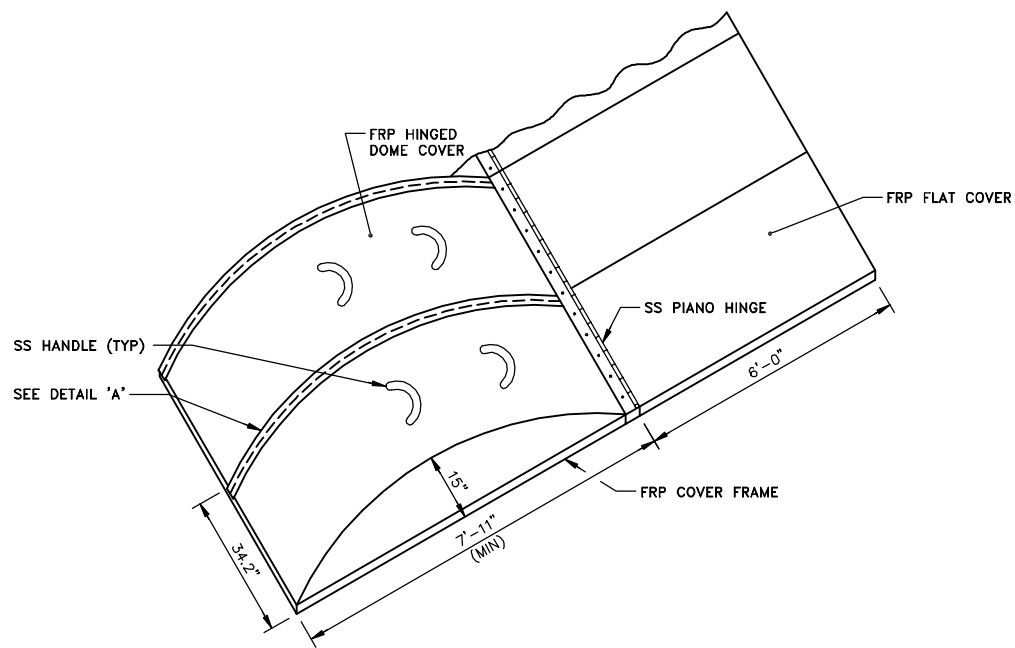
SECTION 1
SCALE: 1/4"=1'-0"
M-17



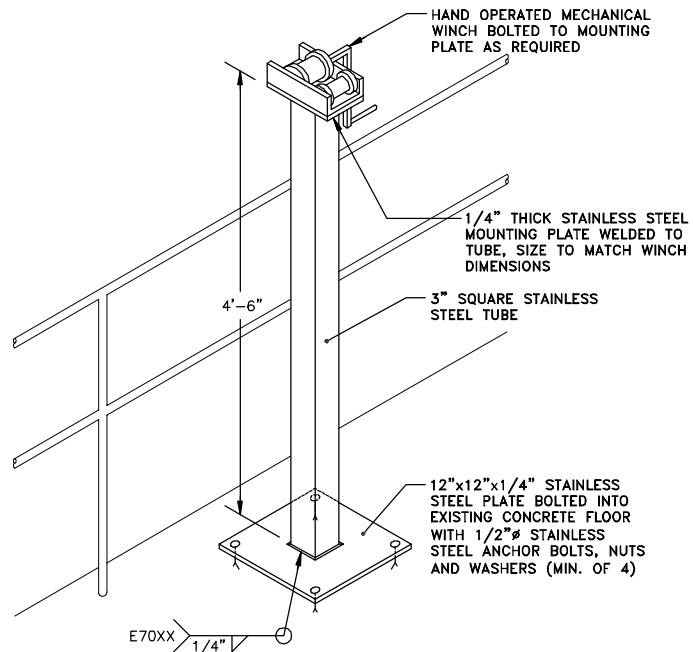
SECTION 2
SCALE: 1/4"=1'-0"
M-18



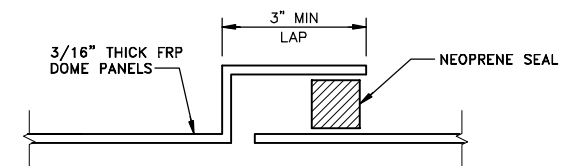
SECTION 3
SCALE: 1/4"=1'-0"
M-18



HINGED DOME COVER DETAIL
NOT TO SCALE



MECHANICAL WINCH DETAIL
NOT TO SCALE



DETAIL 'A'
NOT TO SCALE

GENERAL NOTES:

1. DOOR CONTROL LEVER SHALL TERMINATE 0.15 FEET ABOVE THE MAXIMUM WATER SURFACE ELEVATION.
2. ODOR CONTROL COVER SHALL NOT BE CONNECTED TO ANY EXISTING SCUM BAFFLE, WEIR PLATE OR TANK OPERATING COMPONENT.
3. PROCESS TANK INTERIOR CONCRETE WALLS IN AREAS WHERE ODOR CONTROL COVERS ARE TO BE INSTALLED SHALL BE COATED IN ACCORDANCE WITH SECTION 3.08.B.8 OF MP SECTION ENTITLED "PAINTING" FROM THE EXISTING WATER SURFACE ELEVATION TO A DISTANCE 6" ABOVE THE ODOR CONTROL COVER (WHERE APPLICABLE).

RECORD DRAWINGS
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THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	SS
Drawn by	DCC
Checked by	JCP
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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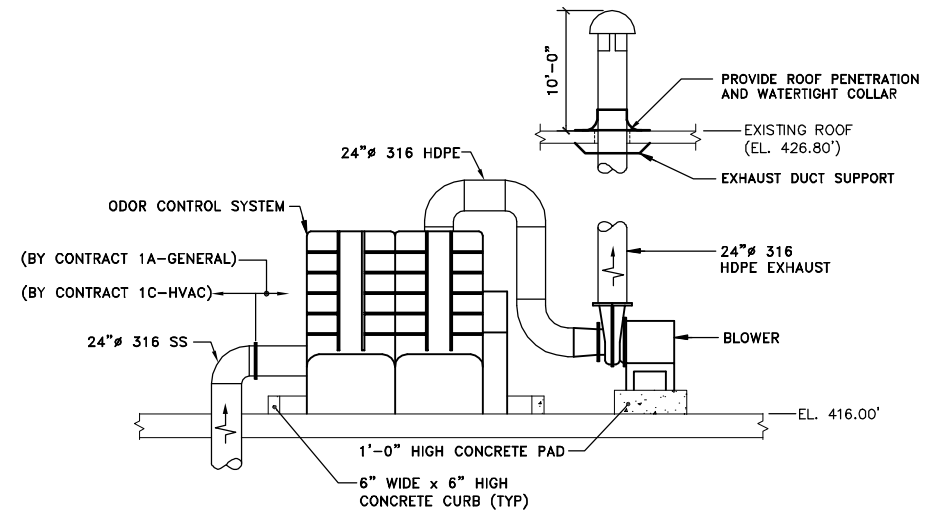
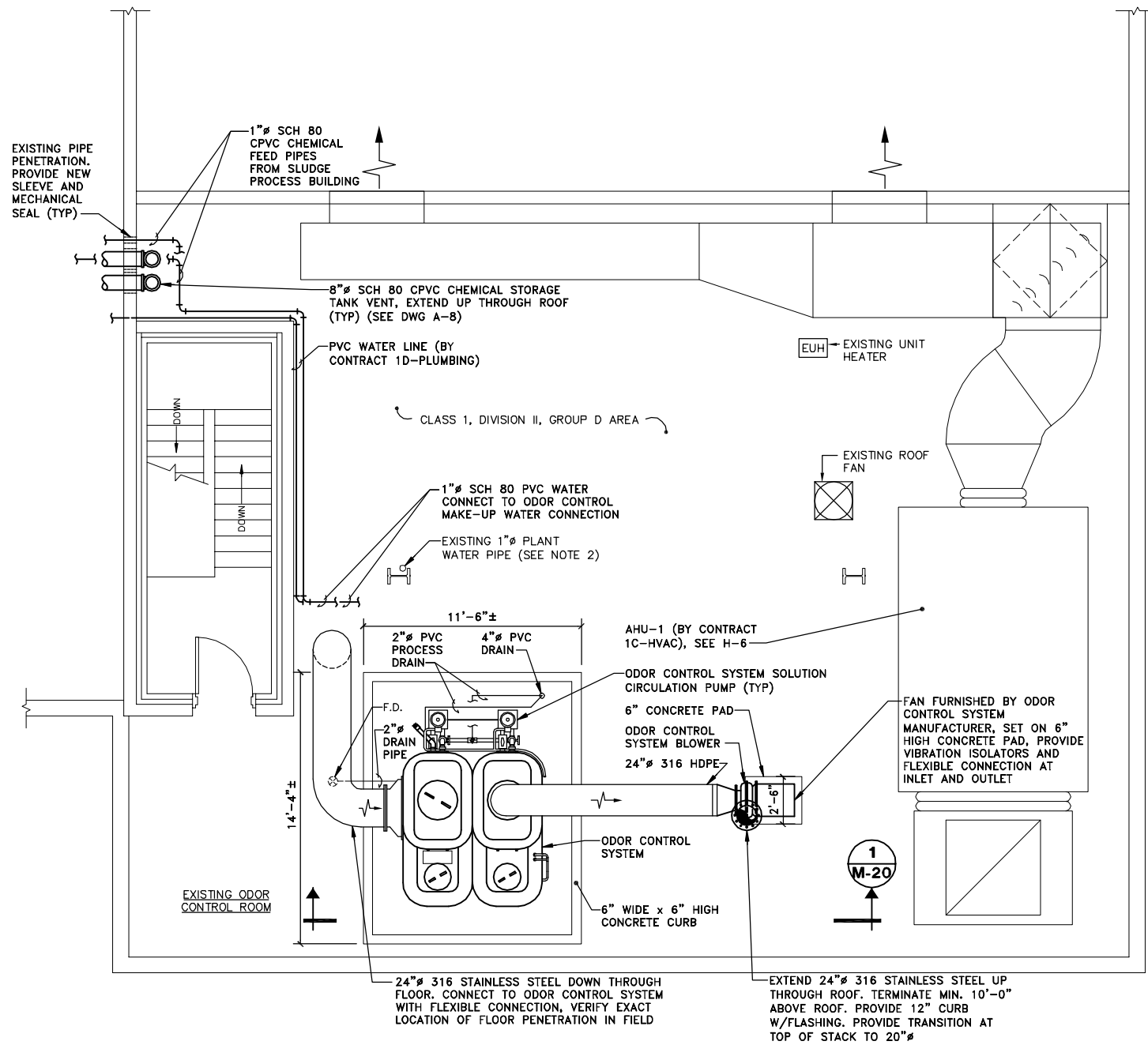
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

ODOR COVER SECTIONS AND DETAILS

MECHANICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

M-19



- NOTE:**
- ODOR CONTROL SYSTEM DRAIN TO DISCHARGE INTO EXISTING FLOOR DRAIN. (BY CONTRACT 1A-GENERAL).
 - CONTRACT 1A-GENERAL TO PROVIDE PLANT WATER CONNECTION AND PIPING TO ODOR CONTROL SYSTEM.
 - PROVIDE ALUMINUM PLATES OVER EXISTING ODOR CONTROL DUCT OPENINGS IN ODOR CONTROL ROOM.

ODOR CONTROL SYSTEM PLAN

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

SECTION 1 M-20
NOT TO SCALE

- GENERAL NOTE:**
- ALL WORK BY CONTRACT 1A - GENERAL UNLESS NOTED OTHERWISE.

RECORD DRAWINGS
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Graphic Scale

1/4"=1'-0"

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No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	VAM
Drawn by	GMS/RJM
Checked by	WFF
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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RECORD DRAWING: MADE FROM DRAWING NO. M-20, TRACER NO. 00365020/OAK/0365M20.DWG, DATED 3/4/99

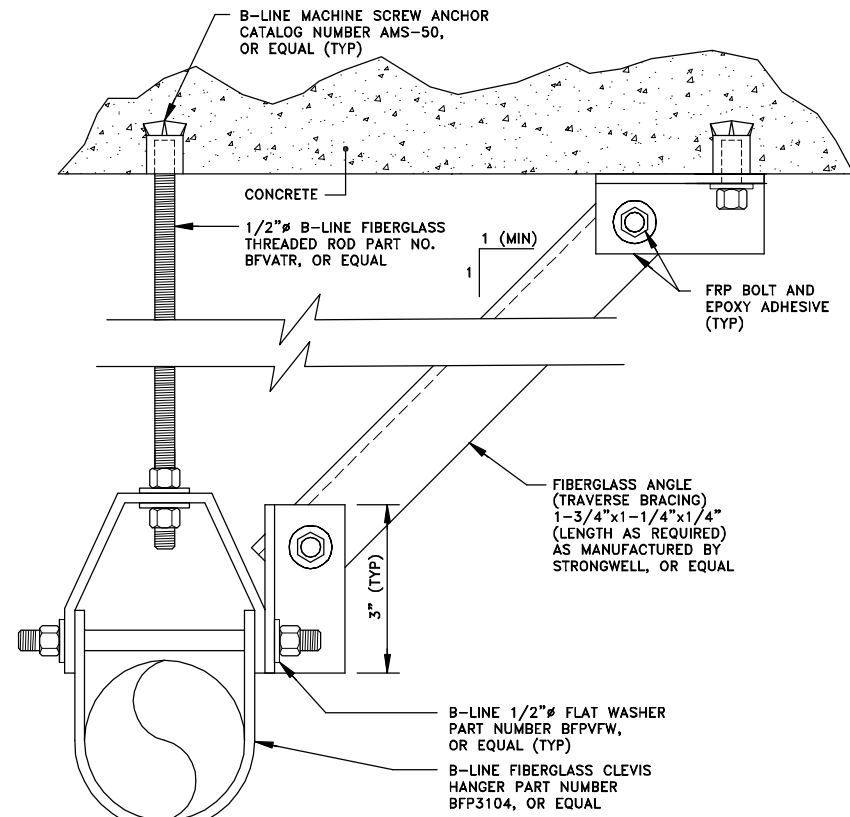
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT

**SCREEN AND GRIT BUILDING SECOND FLOOR
ODOR CONTROL SYSTEM PLAN AND SECTION**

MECHANICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

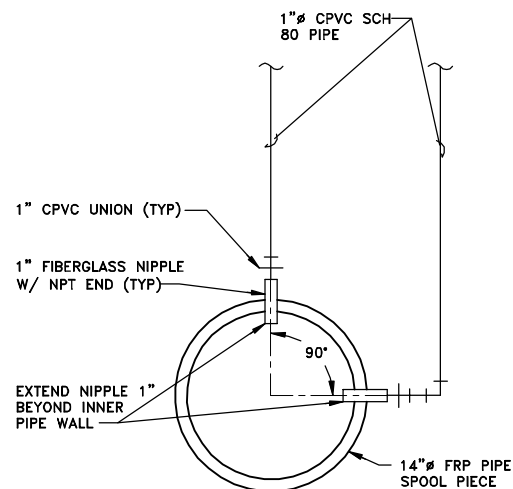
M-20



NOTE:
1. TRAVERSE BRACING SHALL BE USED ON THE 2" Ø FILL LINES.

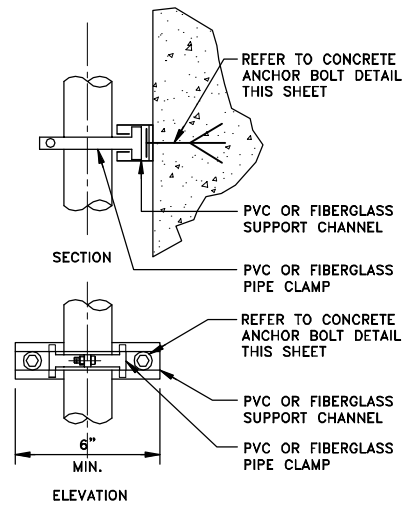
PIPE HANGER DETAIL

NOT TO SCALE



SECTION 2 M-12

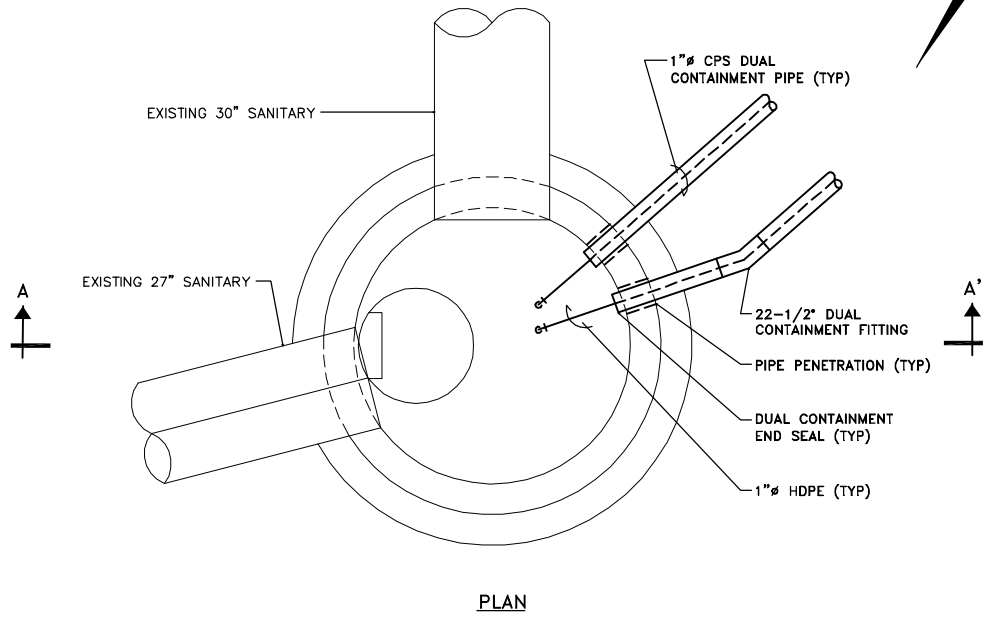
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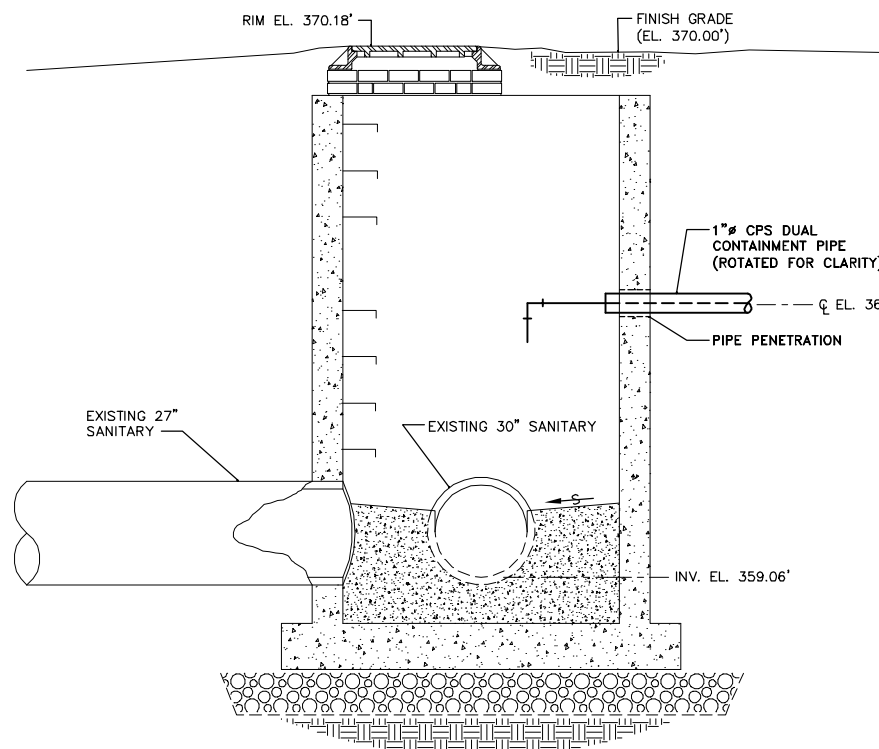
NOTES:
1. CHANNEL SHALL BE SECURED TO EXISTING CONCRETE WALL USING CONCRETE ANCHORS AND NON-METALLIC FASTENERS AS INDICATED. SEE DETAIL THIS SHEET.

SMALL PIPE DETAIL

NOT TO SCALE



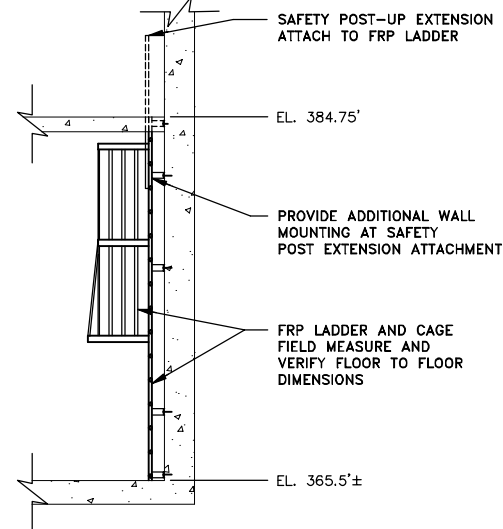
PLAN



SECTION A-A'

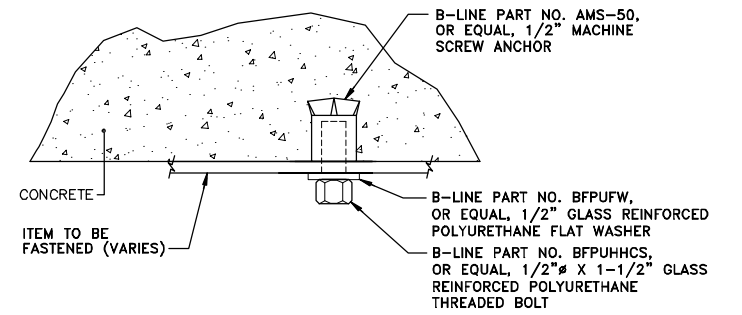
GASKIN ROAD PUMP STATION MANHOLE DETAIL

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



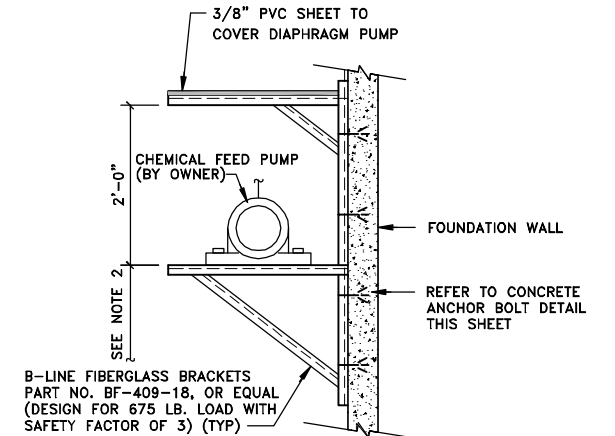
SECTION 4 M-1

NOT TO SCALE



CONCRETE ANCHOR BOLT DETAIL

NOT TO SCALE



NOTES:

- PUMP SHELF SHALL BE SECURED TO FRP PANEL WITH FRP FASTENERS AT BREWERTON WPCP, REFER TO M-3.
- PUMP SHALL BE MOUNTED 3"-6" A.F.F. OR FRP GRATING PLATFORM, AS APPLICABLE, TO TOP OF PUMP SHELF, UNLESS OTHERWISE INDICATED.

PUMP SHELF DETAIL

NOT TO SCALE

GENERAL NOTES:

- PROPOSED PIPE HANGERS ARE FOR REFERENCE ONLY, HANGERS TO BE LOCATED EVERY 3'-0" O.C., HORIZONTAL, AND VERTICAL, AND AT ALL CHANGES IN DIRECTION.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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Graphic Scale	No.	Date	Revisions	Init	Project Mgr.	Designed by	Drawn by	Checked by	Prof. Eng.	PE License
1/2"=1'-0"					JCP	WFF	RJM	JCP	DONALD GEISSER	N.Y. 57879

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MISCELLANEOUS DETAILS AND SECTIONS

MECHANICAL

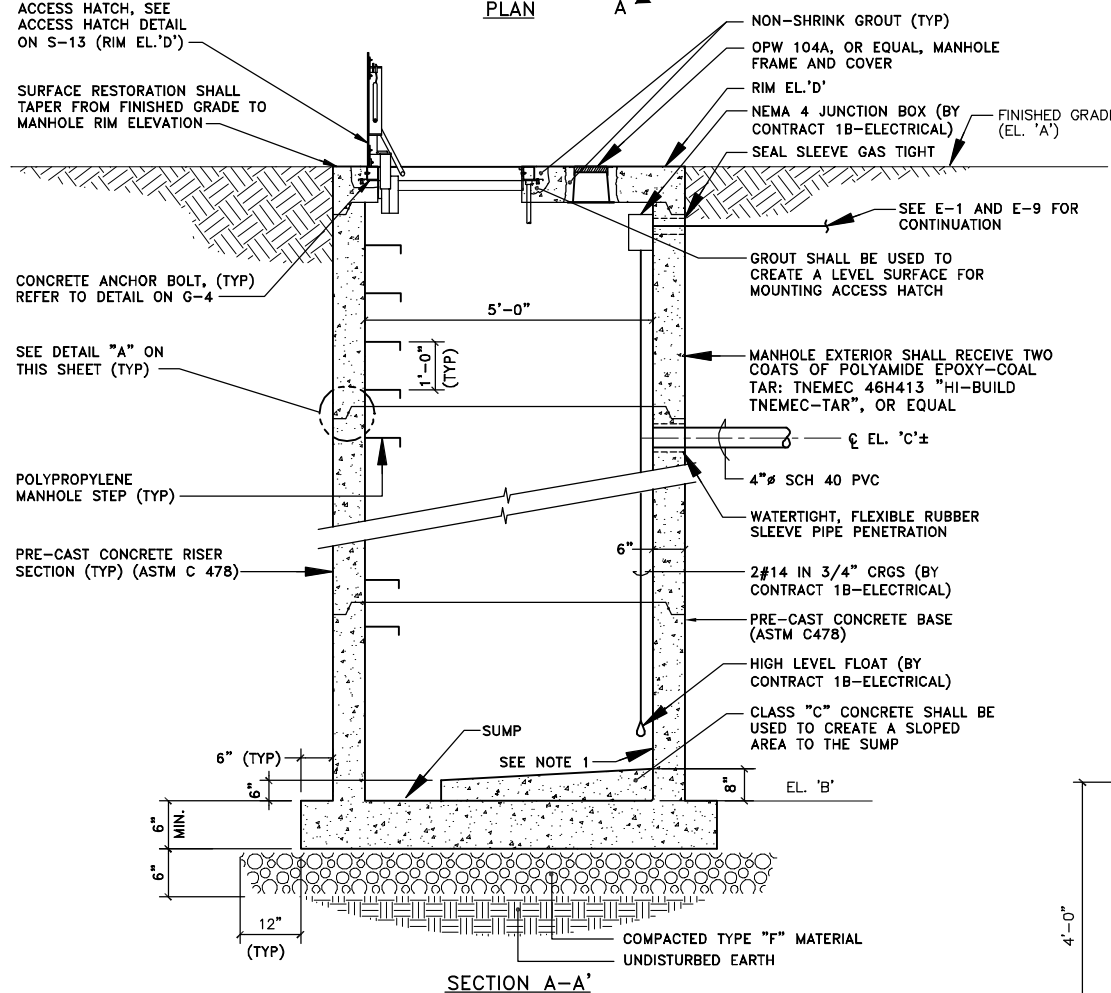
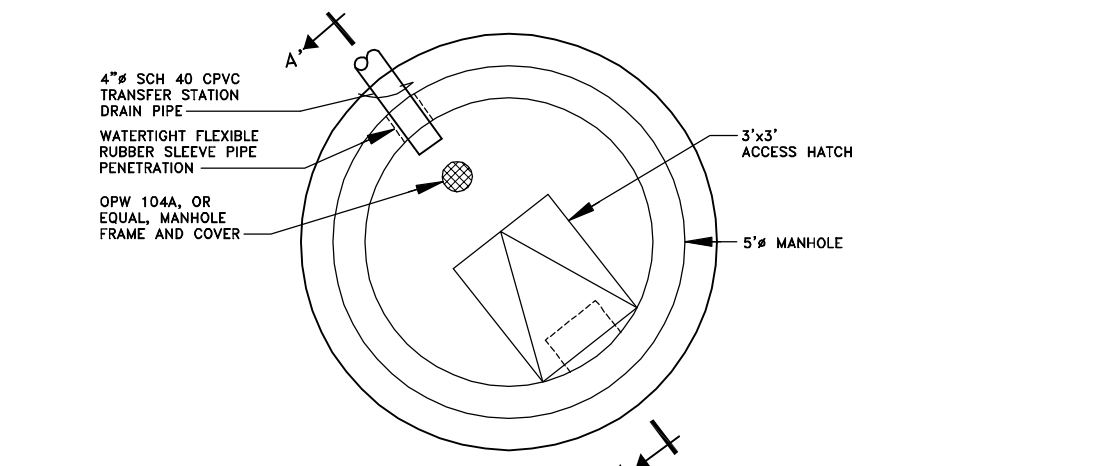
File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

M-21

(RECORD DRAWING: MADE FROM DRAWING NO. M-21, TRACER NO. 00365020/DAVIS/0365M21.DWG, DATED 1/28/99)

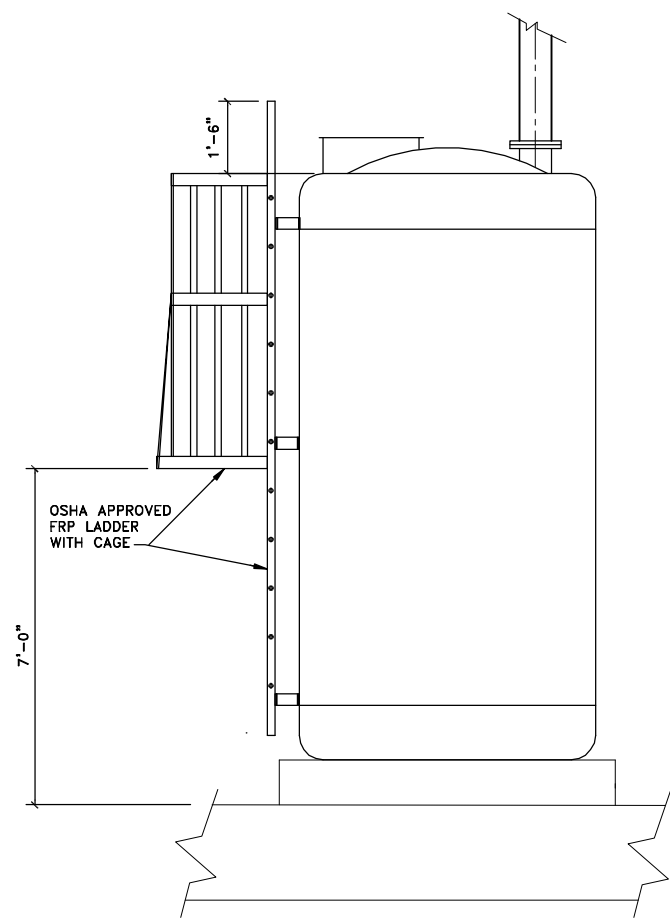
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

DATE _____ BY _____

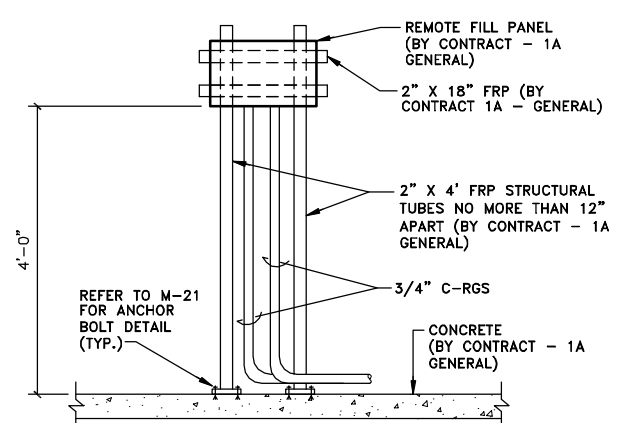


LOCATION	ELEVATION			
	A	B	C	D
DAVIS ROAD	382.50'	374.50'	378.92'	382.58'
GASKIN ROAD	370.00'	362.00'	366.42'	370.08'

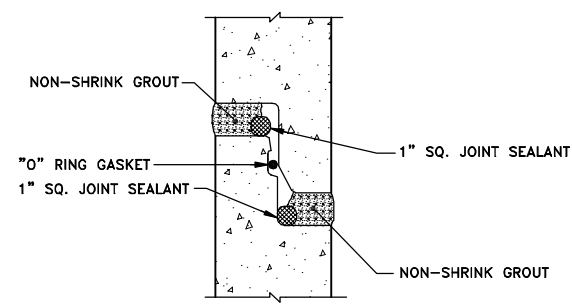
CONTAINMENT MANHOLE DETAIL Δ
NOT TO SCALE



LADDER WITH CAGE DETAIL
SCALE: 1/2"=1'-0"

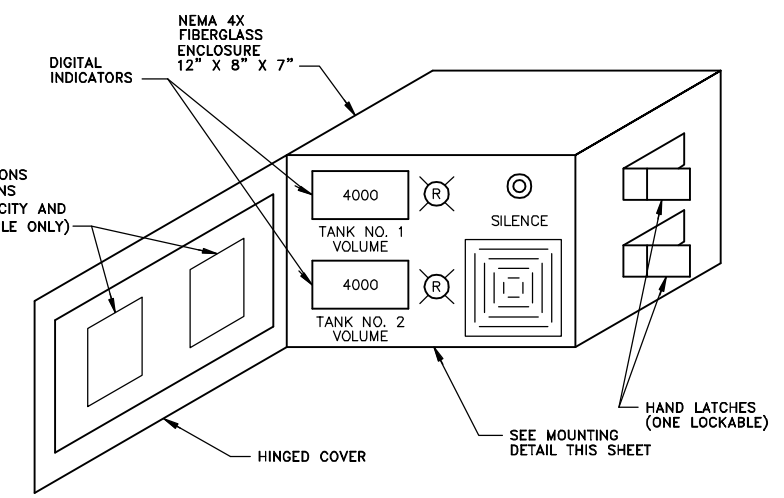


MOUNTING DETAIL Δ
NOT TO SCALE

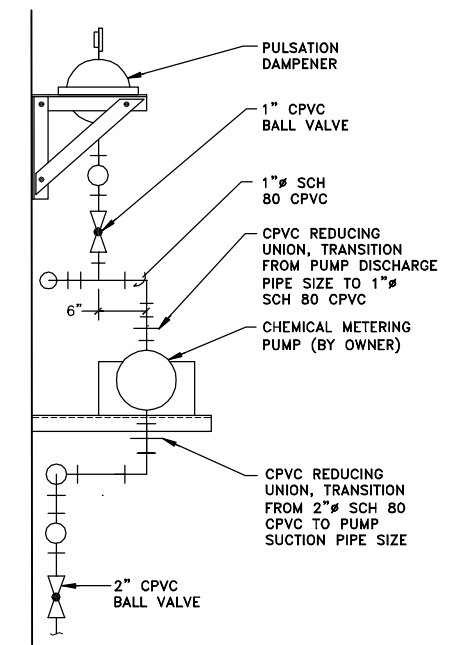


NOTE:
1. NON-SHRINK GROUT SHALL BE APPLIED PRIOR TO SURFACE COATING.

DETAIL A
NOT TO SCALE



REMOTE FILL STATION PANEL DETAIL
NOT TO SCALE

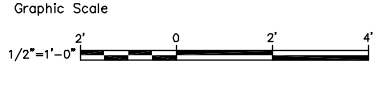


NOTE:
1. REFER TO PUMP SHELF DETAIL ON M-21.

CHEMICAL FEED PUMP INSTALLATION DETAIL
NOT TO SCALE

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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00365020\RECORD\OAK\00365M22.DWG



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No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr. --- JCP
Designed by --- WFF
Drawn by --- RJM
Checked by --- WFF
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

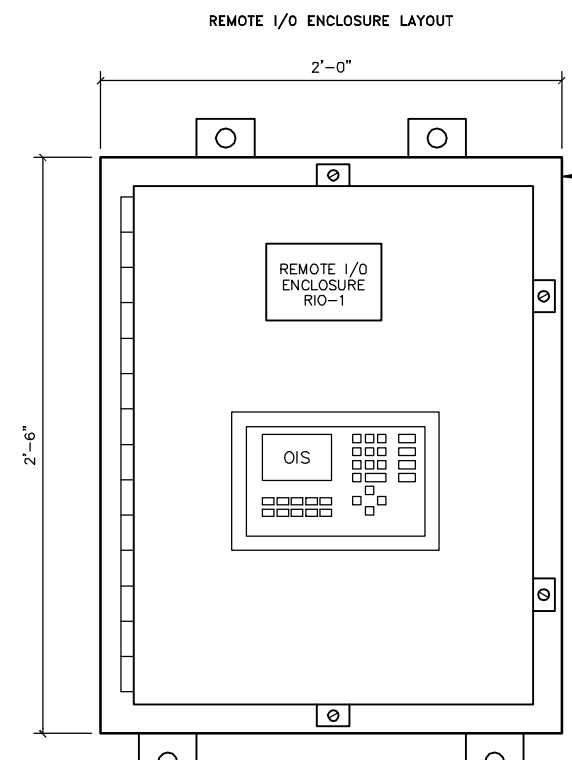
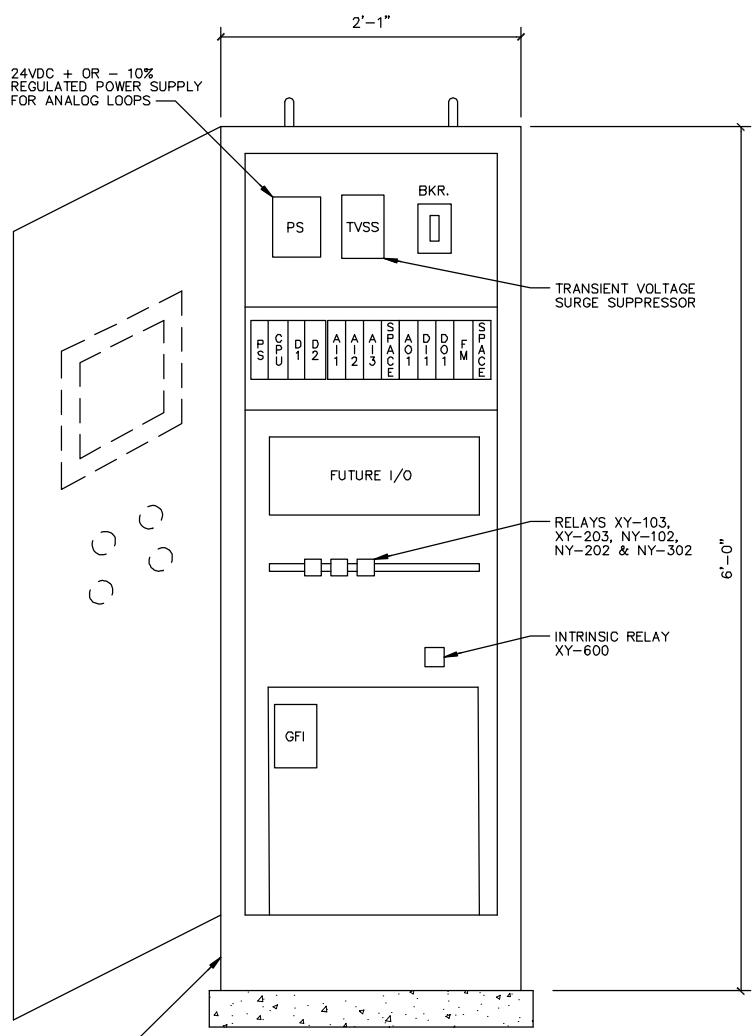
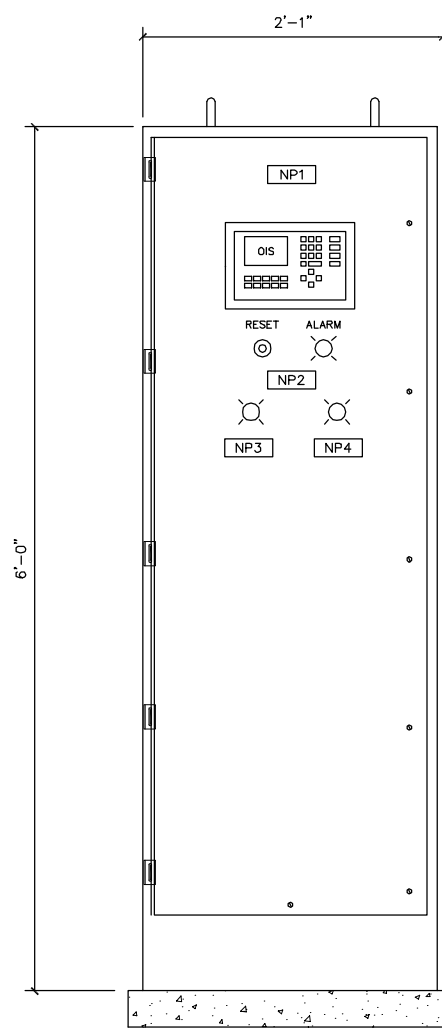
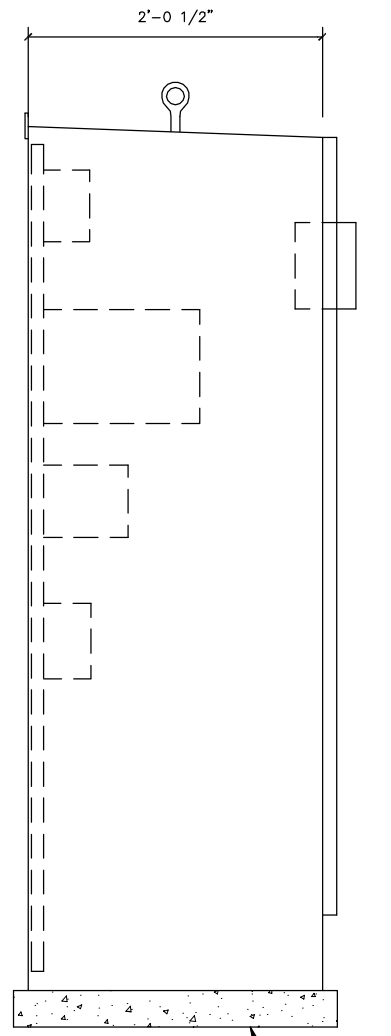
DETAILS
MECHANICAL

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

M-22

(RECORD DRAWING: MADE FROM DRAWING NO. M-22, TRACER NO. 00365020/OAK/0365M22.DWG, DATED 3/4/99)

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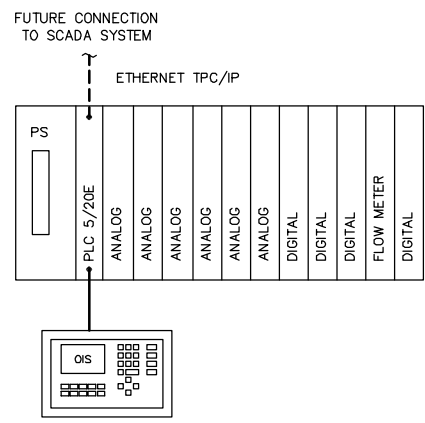


REMOTE I/O PANEL
(DAVIS ROAD ONLY)
NOT TO SCALE

- LEGEND:**
- PROCESS PIPING
 - BALL VALVE
 - CHECK VALVE
 - BALL CHECK VALVE
 - PRESSURE REDUCING VALVE
 - GAUGE VALVE
 - PRESSURE RELIEF VALVE
 - DIAPHRAGM PUMP
 - PULSATION DAMPENER WITH PRESSURE GAUGE
 - CALIBRATION TUBE
 - DIAPHRAGM ISOLATOR
 - MAGNETIC FLOWMETER
 - FLOAT SWITCH
 - TO BE ACCESSED THRU OPERATORS INTERFACE STATION (OIS)
 - PLC INTERLOCK
 - ES ELECTRIC POWER SUPPLY
 - FT EXISTING DEVICE

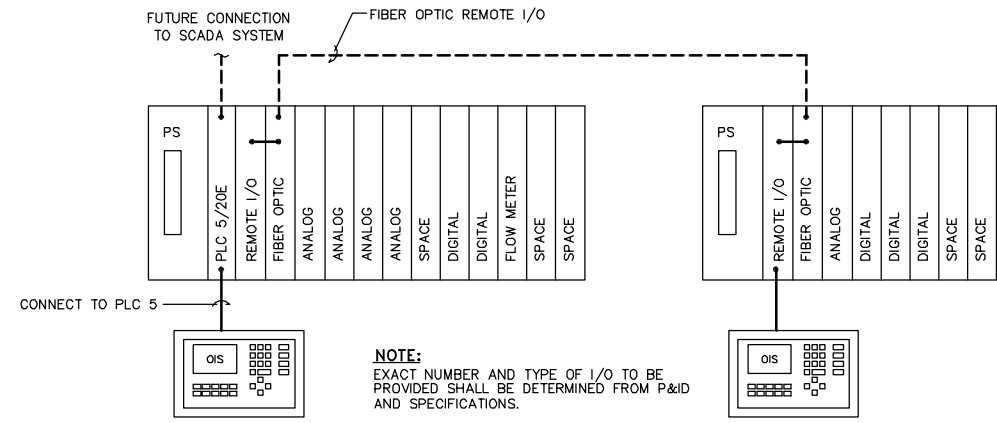
CHEMICAL FEED CONTROL PANEL

NOT TO SCALE



CONTROL SYSTEM DIAGRAM

(OAK ORCHARD AND GASKIN ROAD)
NOT TO SCALE



CONTROL SYSTEM DIAGRAM

(DAVIS ROAD ONLY)
NOT TO SCALE

NAMEPLATE SCHEDULE					
ITEM	LINE 1	LINE 2	LINE 3	LTR. SIZE	PLATE SIZE
NP1	CHEMICAL FEED	CONTROL PANEL	-	.25	1 X 6
NP2	ALARM	RESET	-	.19	.75 X 2.25
NP3	CHEMICAL FEED	PUMP NO. 1	RUNNING	.19	.75 X 2.25
NP4	CHEMICAL FEED	PUMP NO. 2	RUNNING	.19	.75 X 2.25

RECORD DRAWINGS
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BLASLAND, BOUCK & LEE, INC.

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INSTRUMENTATION LEGEND	TRANSMITTER	(H) HIGH SWITCH (L) LOW	PRIMARY SENSOR	CONTROL	INDICATOR	ALARM
FLOW	FT	FS			FI	PA
TOTAL FLOW	QT				FQ	
LEVEL	LT	LSH	LE		LI	LAH
PRESSURE	PT					
TEMPERATURE	TT					TAL
SPEED			**	SC		
STROKE			**	ZC	ZI	
HAND		HS		HC		
ALARM SW.						XSA
RELAY	XY			NY		
SIGNAL ISOLATOR	IY					
TIMER				KC		

** MAY BE PRECEDED BY "E" FOR ELECTRIC OR "H" FOR HAND.

INSTRUMENT FUNCTION
SEE CHART FOR FUNCTION
INSTRUMENT TAG NUMBER,

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Project Mgr. --- JCP ---
Designed by --- WGS ---
Drawn by --- DCC ---
Checked by --- WGS ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

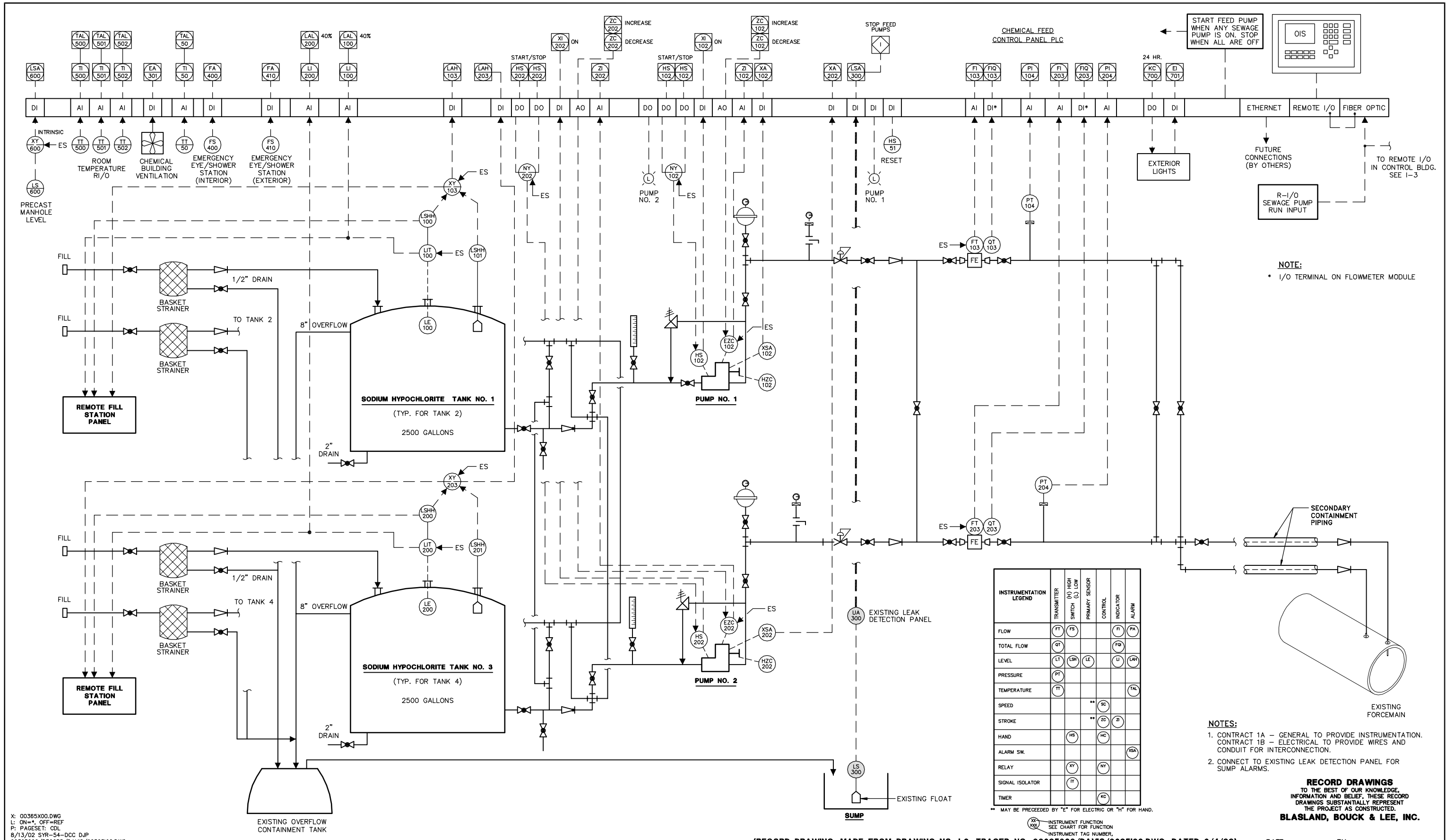
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD WASTEWATER TREATMENT PLANT,
DAVIS ROAD AND GASKIN ROAD PUMP STATIONS

CONTROL AND REMOTE I/O PANELS

INSTRUMENTATION

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120



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 Drawn by --- DCC ---
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 Prof. Eng. --- DONALD GEISSER ---
 PE License --- N.Y. 57879 ---



COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION

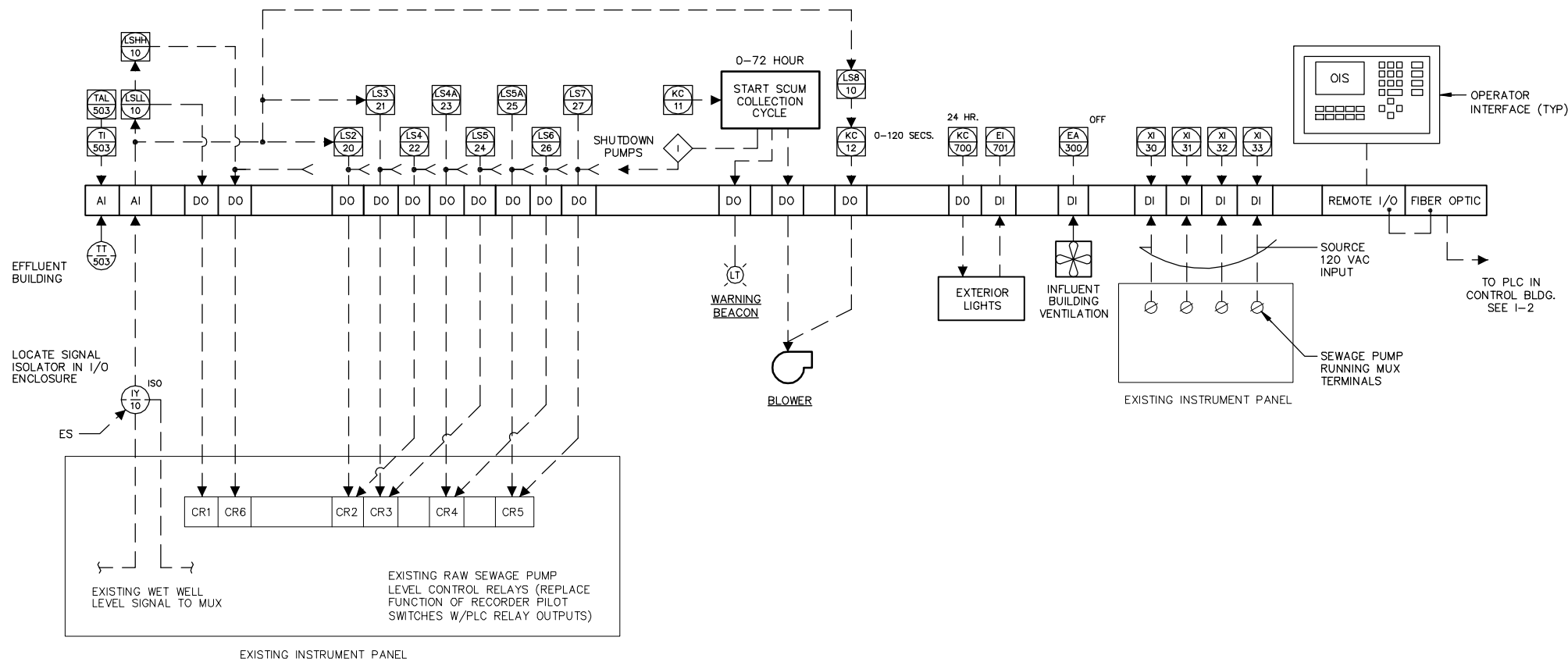
PROCESS AND INSTRUMENTATION DIAGRAM

INSTRUMENTATION

File Number
003.65.006

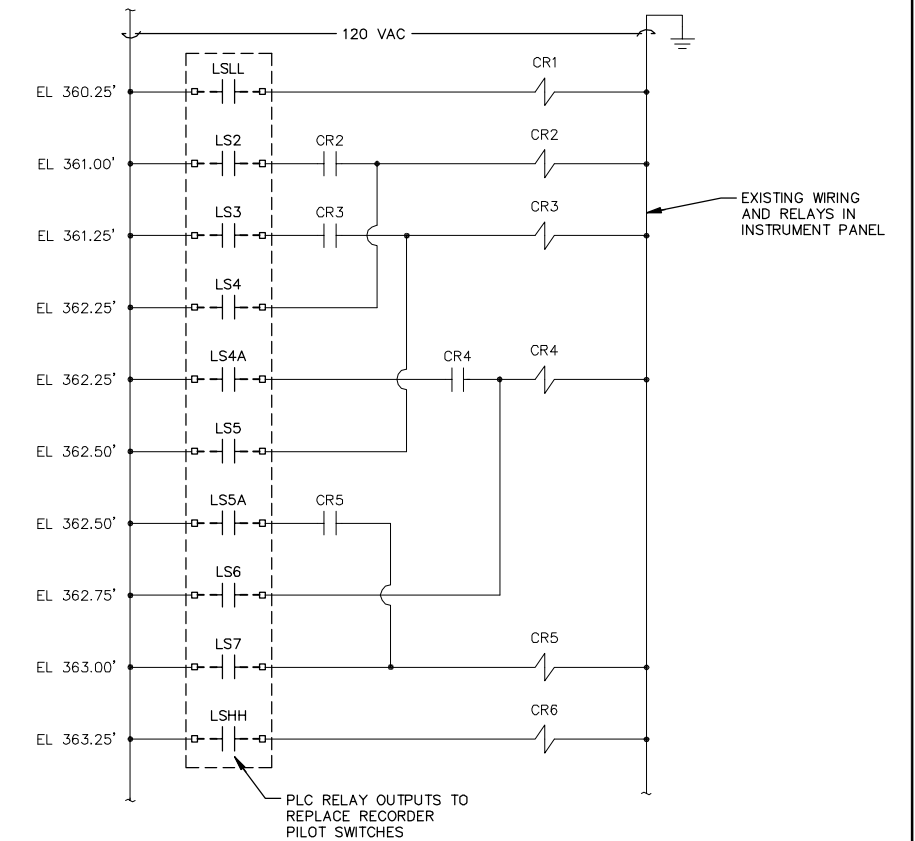
Date
AUGUST 2002

Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120



REMOTE I/O P&ID

NOT TO SCALE



EXISTING RAW SEWAGE PUMP LEVEL CONTROL RELAY WIRING DIAGRAM

NOT TO SCALE

INSTRUMENTATION LEGEND	TRANSMITTER	SWITCH		PRIMARY SENSOR	CONTROL	INDICATOR	ALARM
		(H) HIGH	(L) LOW				
FLOW	(FT)	(FS)				(FI)	(PA)
TOTAL FLOW	(QT)					(FQI)	
LEVEL	(LT)	(LSH)	(LE)			(LI)	(LAH)
PRESSURE	(PT)						
TEMPERATURE	(TT)						(TAL)
SPEED				** (SC)			
STROKE				** (ZC)	(ZI)		
HAND		(HS)		(HC)			
ALARM SW.							(XSA)
RELAY		(XY)		(NY)			
SIGNAL ISOLATOR		(IY)					
TIMER					(KC)		

** MAY BE PRECEDED BY "E" FOR ELECTRIC OR "H" FOR HAND.

XX INSTRUMENT FUNCTION
SEE CHART FOR FUNCTION
INSTRUMENT TAG NUMBER,

RECORD DRAWINGS
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INFORMATION AND BELIEF, THESE RECORD
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THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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No. 3/8/99 Date

Revisions GENERAL REVISIONS

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No.	Date	Revisions	Init
3/8/99		GENERAL REVISIONS	

Project Mgr. JCP

Designed by WGS

Drawn by DCC

Checked by WGS

Prof. Eng. DONALD GEISSER

PE License N.Y. 57879

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

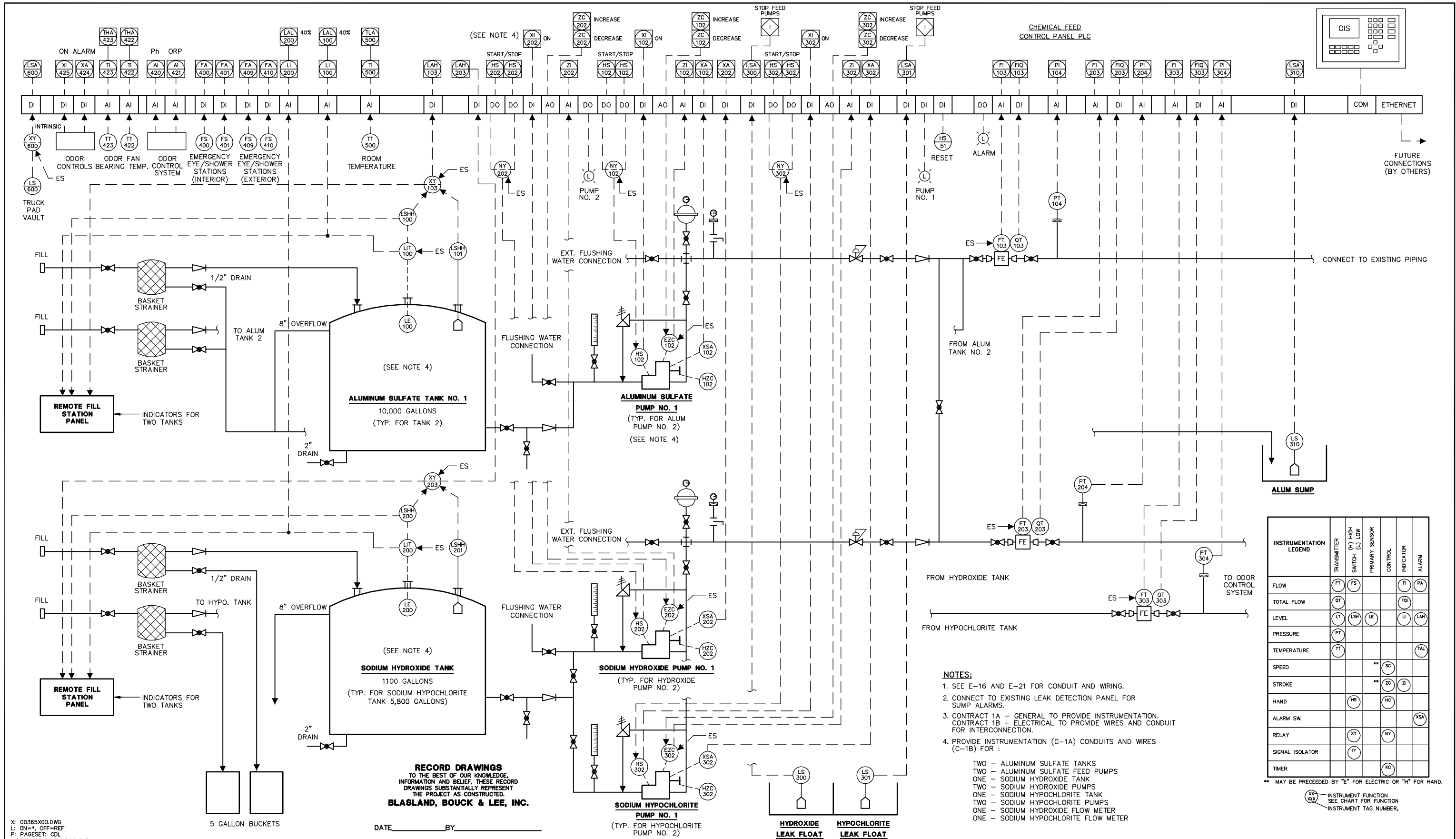
REMOTE I/O P&ID AND SEWAGE PUMPS LEVEL CONTROL WIRING DIAGRAM

INSTRUMENTATION

File Number 003.65.006

Date AUGUST 2002

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Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120



INSTRUMENTATION LEGEND	TRANSMITTER	SWITCH (H) HIGH (L) LOW	PRIMARY SENSOR	CONTROL	INDICATOR	ALARM
FLOW	FT	FS			FI	FA
TOTAL FLOW	QT				FT	
LEVEL	LT	LSH	LE		LI	LAH
PRESSURE	PT					
TEMPERATURE	TT					TAL
SPEED			**	SC		
STROKE			**	ZC	Z	
HAND		HR		HC		
ALARM SW.						XSA
RELAY		XY		NY		
SIGNAL ISOLATOR			RY			
TIMER						KC

- NOTES:**
- SEE E-16 AND E-21 FOR CONDUIT AND WIRING.
 - CONNECT TO EXISTING LEAK DETECTION PANEL FOR SUMP ALARMS.
 - CONTRACT 1A - GENERAL TO PROVIDE INSTRUMENTATION. CONTRACT 1B - ELECTRICAL TO PROVIDE WIRES AND CONDUIT FOR INTERCONNECTION.
 - PROVIDE INSTRUMENTATION (C-1A) CONDUITS AND WIRES (C-1B) FOR :
 - TWO - ALUMINUM SULFATE TANKS
 - TWO - ALUMINUM SULFATE FEED PUMPS
 - ONE - SODIUM HYDROXIDE TANK
 - TWO - SODIUM HYDROXIDE PUMPS
 - ONE - SODIUM HYPOCHLORITE TANK
 - TWO - SODIUM HYPOCHLORITE PUMPS
 - ONE - SODIUM HYPOCHLORITE FLOW METER
 - ONE - SODIUM HYPOCHLORITE FLOW METER

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BLASLAND, BOUCK & LEE, INC.
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Project Mgr. --- JCP ---
 Designed by --- WGS ---
 Drawn by --- DCC ---
 Checked by --- WGS ---
 Prof. Eng. --- DONALD GEISSER ---
 PE License --- N.Y. 57879 ---

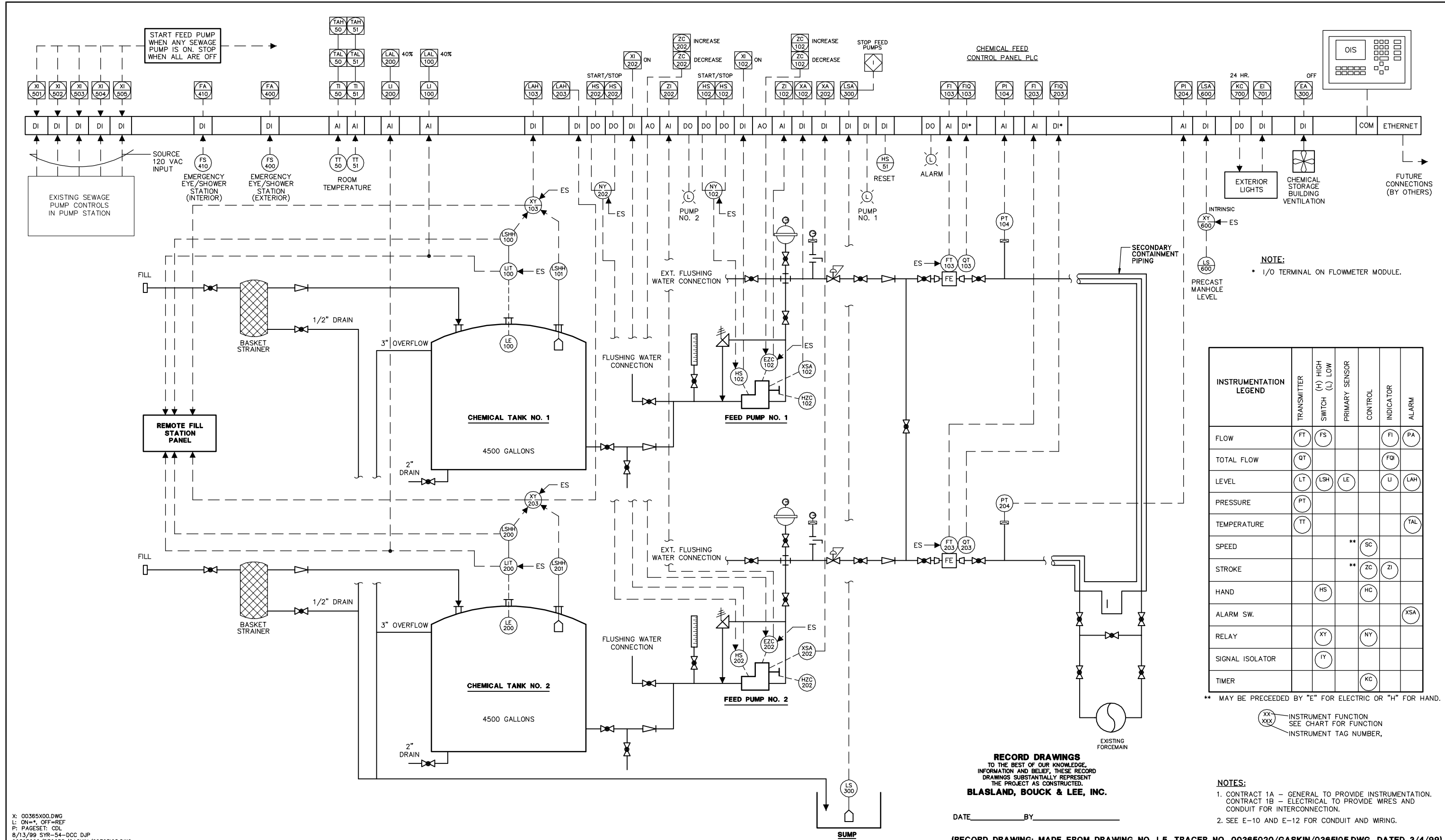


PROCESS AND INSTRUMENTATION DIAGRAM
 INSTRUMENTATION

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION

File Number
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 Date
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 Blasland, Bouck & Lee, Inc.
 Corporate Headquarters
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 315-446-9120

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NOTE:
* I/O TERMINAL ON FLOWMETER MODULE.

INSTRUMENTATION LEGEND	TRANSMITTER		HIGH (+) / LOW (-) SWITCH		PRIMARY SENSOR	CONTROL	INDICATOR	ALARM
	FT	FS	HS	LS				
FLOW	FT	FS					FI	PA
TOTAL FLOW	QT						FTQ	
LEVEL	LT	LSH	LE				LI	LAH
PRESSURE	PT							
TEMPERATURE	TT							TAL
SPEED					**	SC		
STROKE					**	ZC	ZI	
HAND		HS				HC		
ALARM SW.								XSA
RELAY		XY				NY		
SIGNAL ISOLATOR		IY						
TIMER						KC		

** MAY BE PRECEDED BY "E" FOR ELECTRIC OR "H" FOR HAND.

XX-xxx INSTRUMENT FUNCTION
SEE CHART FOR FUNCTION
INSTRUMENT TAG NUMBER,

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

NOTES:
1. CONTRACT 1A - GENERAL TO PROVIDE INSTRUMENTATION.
CONTRACT 1B - ELECTRICAL TO PROVIDE WIRES AND
CONDUIT FOR INTERCONNECTION.
2. SEE E-10 AND E-12 FOR CONDUIT AND WRING.

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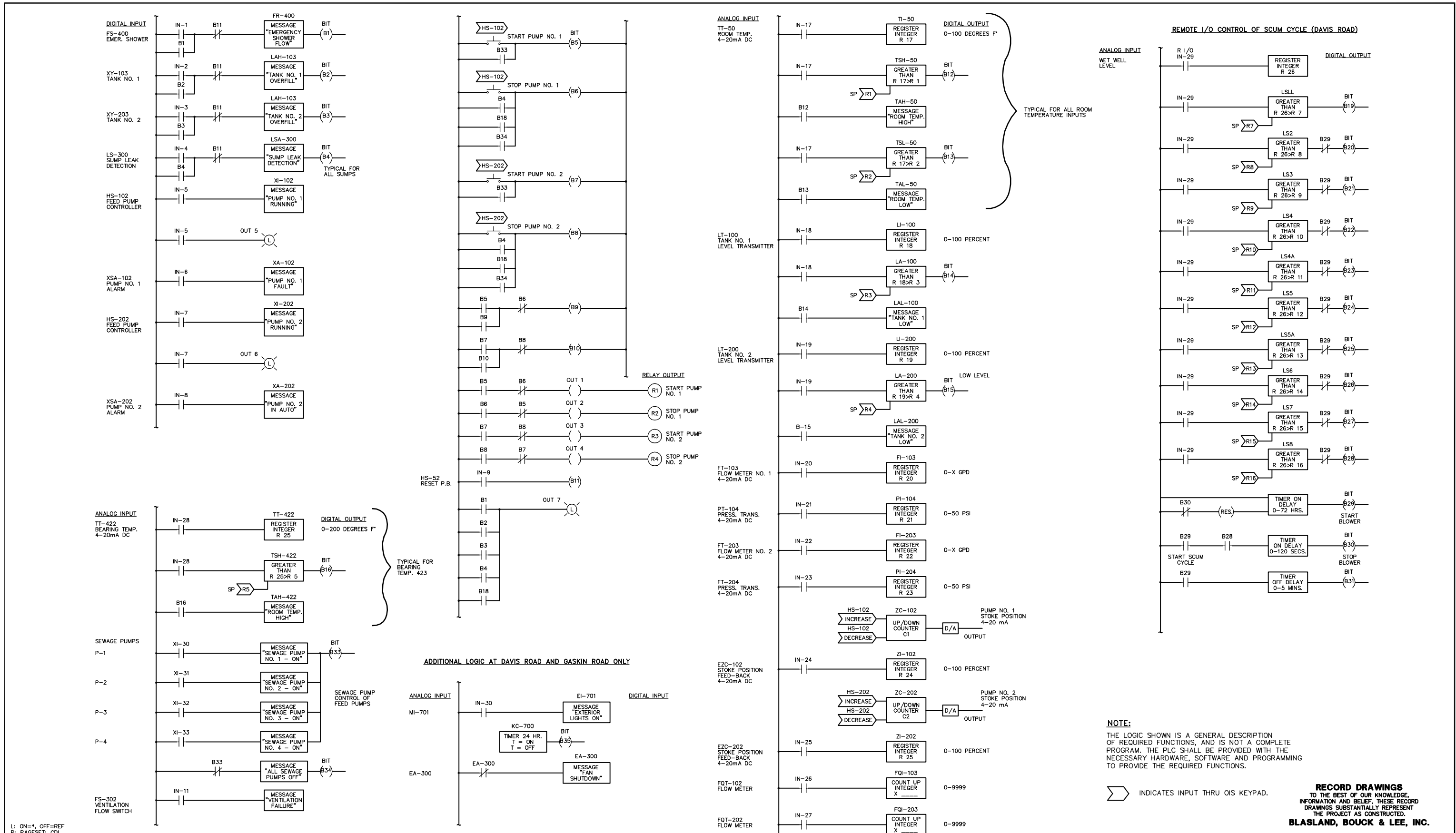
Project Mgr. --- JCP ---
Designed by --- WGS ---
Drawn by --- DCC ---
Checked by --- WGS ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
PROCESS AND INSTRUMENTATION DIAGRAM
INSTRUMENTATION

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

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No.	Date	Revisions	Init

Project Mgr. --- JCP ---
Designed by --- WGS ---
Drawn by --- DCC ---
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Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

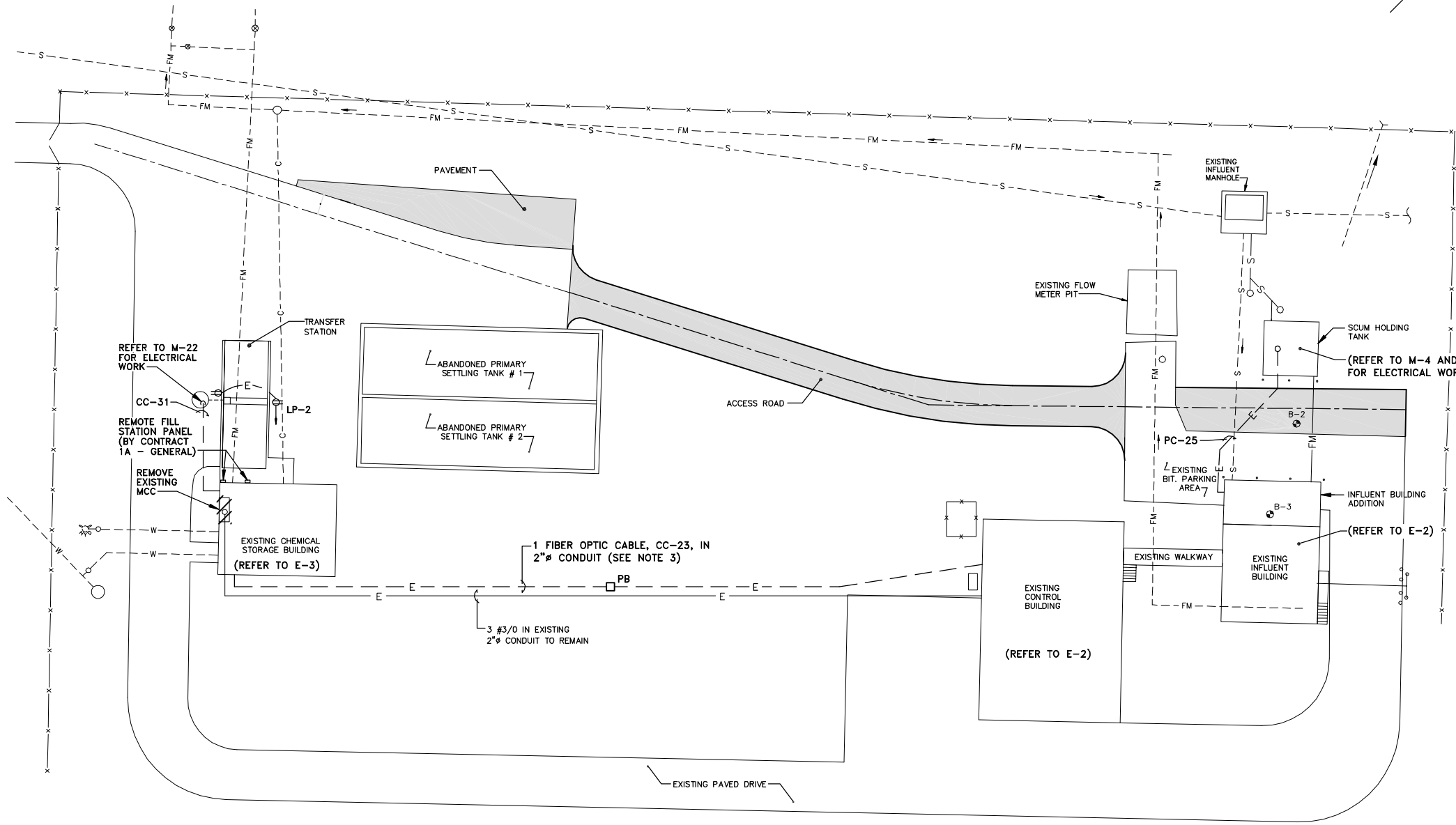
PLC LADDER LOGIC
INSTRUMENTATION

File Number 003.65.006	I-6
Date AUGUST 2002	
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

- ELECTRICAL LEGEND:**
- ⋈ NORMALLY OPEN CONTACT (N.O.)
 - ⋈ NORMALLY CLOSED CONTACT (N.C.)
 - ⊕ GROUND
 - ⊕ TRANSFORMER
 - ⊕ MOTOR OVERLOAD HEATER
 - ⊕ FUSE
 - ⊕ CIRCUIT BREAKER (C.B.)
 - ⊕ CONTROL POWER TRANSFORMER (CPT)
 - ⊕ INDICATING LIGHT (R)ED, (Y)ELLOW, (G)REEN, (W)HITE
 - ⊕ HOA HAND - OFF - AUTO SWITCH (HOA)
 - ⊕ S/SL START/STOP LOCK
 - ⊕ SL STOP LOCK
 - ⊕ CONDUIT BEND DOWN
 - ⊕ CONDUIT BEND UP
 - ⊕ TELEPHONE
 - ⊕ GFI GROUND FAULT INTERRUPT RECEPTACLE
 - ⊕ SELF-LUMINOUS EXIT SIGN
 - ⊕ WL EXTERIOR WEATHER PROOF WALL LIGHT
 - ⊕ COMPACT FLUORESCENT
 - ⊕ SINGLE POLE LIGHT SWITCH
 - ⊕ T THERMOSTAT
 - ⊕ JB JUNCTION BOX
 - ⊕ HOMERUN
 - ⊕ PHOTO ELECTRIC CONTROL
 - ⊕ M MANUAL MOTOR STARTER
 - ⊕ EMERGENCY LIGHT UNIT
 - ⊕ RTD REMOTE TEMPERATURE DETECTOR
 - ⊕ TWISTLOCK
 - ⊕ DISCONNECT
 - ⊕ HP MOTOR
 - ⊕ FLOWMETER
 - ⊕ FLOAT
 - ⊕ PRESSURE SWITCH
 - ⊕ FLOW SWITCH

- LEGEND:**
- E --- UNDERGROUND ELECTRICAL LINE
 - ▨ DEMOLITION/REMOVE

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BLASLAND, BOUCK & LEE, INC.



△ SITE PLAN
SCALE: 1"=20'

- GENERAL NOTES:**
- BASE MAPS BY BRYANT ASSOCIATES, P.C. ENGINEERS-SURVEYORS, JULY 30, 1998 @ A SCALE OF 1"=20'.
 - LOCATION OF EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES MUST BE CONSIDERED APPROXIMATE AND NO GUARANTEE IS MADE TO THE HORIZONTAL OR VERTICAL LOCATION OF SUCH FACILITIES, STRUCTURES AND UTILITIES. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY UNKNOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL FACILITIES, STRUCTURES AND UTILITIES.
 - CONTRACTOR TO INSTALL NEW 2"Ø CONDUIT AND PULL NEW FIBER OPTIC CABLE, FOR INTERCONNECTING PLC PANELS.

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Graphic Scale
20' 0 20' 40'
1"=20'

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Designed by	MEE
Drawn by	DCC
Checked by	TEL/MEE
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

BBL
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engineers & scientists

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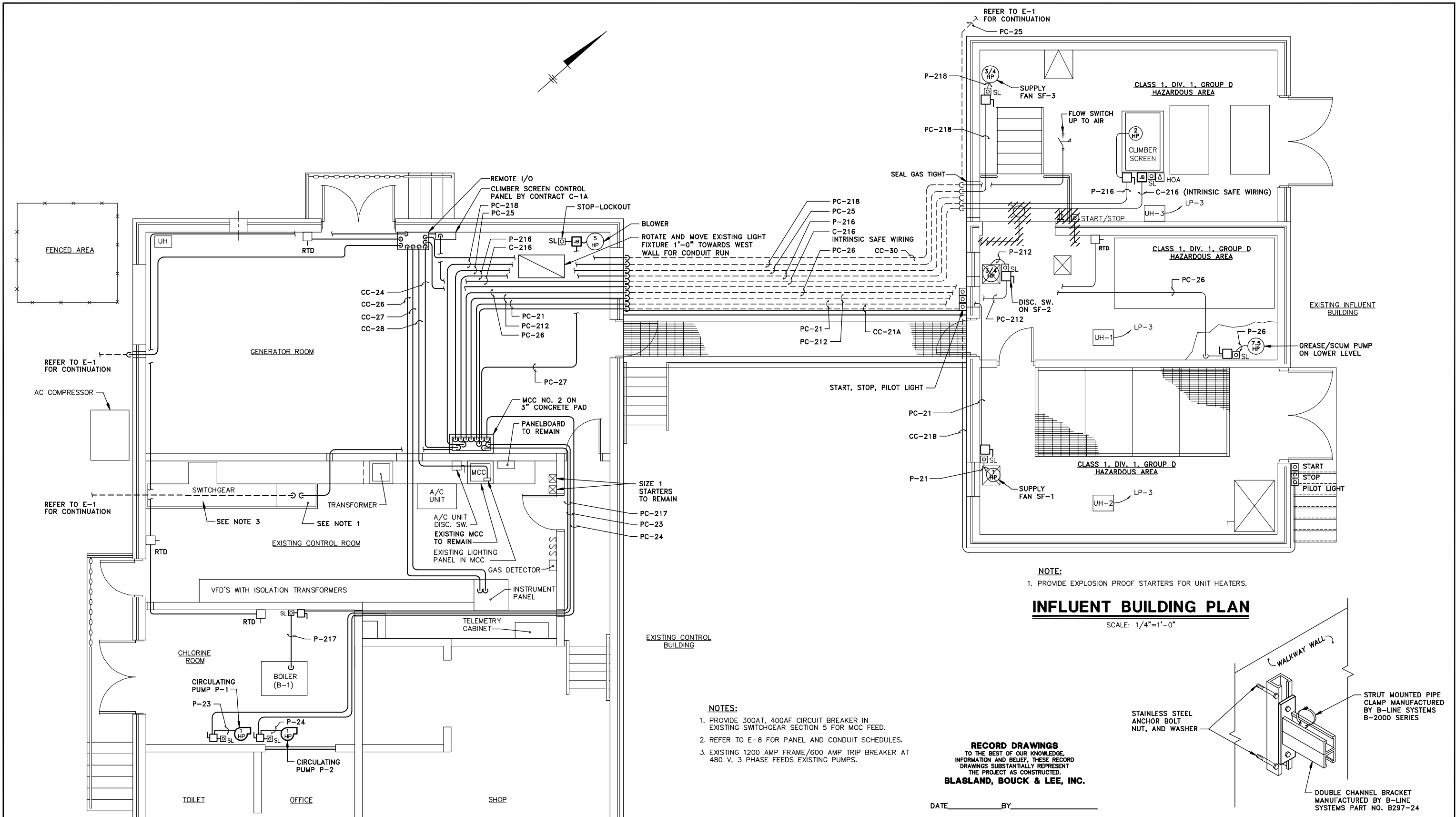
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

ELECTRICAL SITE PLAN

ELECTRICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

E-1



NOTE:
1. PROVIDE EXPLOSION PROOF STARTERS FOR UNIT HEATERS.

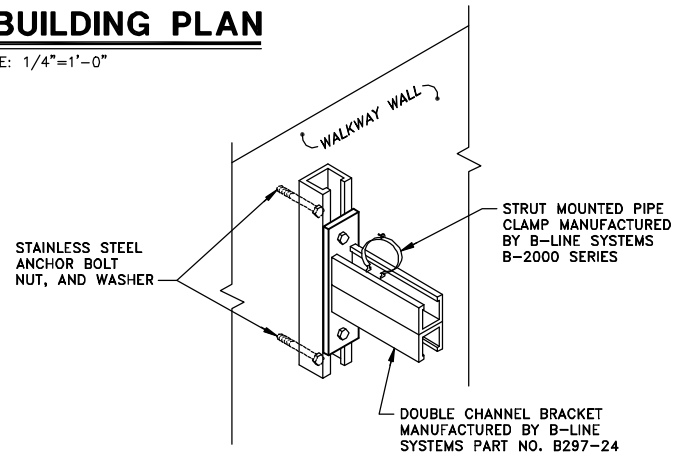
INFLUENT BUILDING PLAN

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

- NOTES:**
1. PROVIDE 300AT, 400AF CIRCUIT BREAKER IN EXISTING SWITCHGEAR SECTION 5 FOR MCC FEED.
 2. REFER TO E-8 FOR PANEL AND CONDUIT SCHEDULES.
 3. EXISTING 1200 AMP FRAME/600 AMP TRIP BREAKER AT 480 V, 3 PHASE FEEDS EXISTING PUMPS.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

DATE _____ BY _____



CONDUIT SUPPORT DETAIL

NOT TO SCALE



CONTROL BUILDING PLAN

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

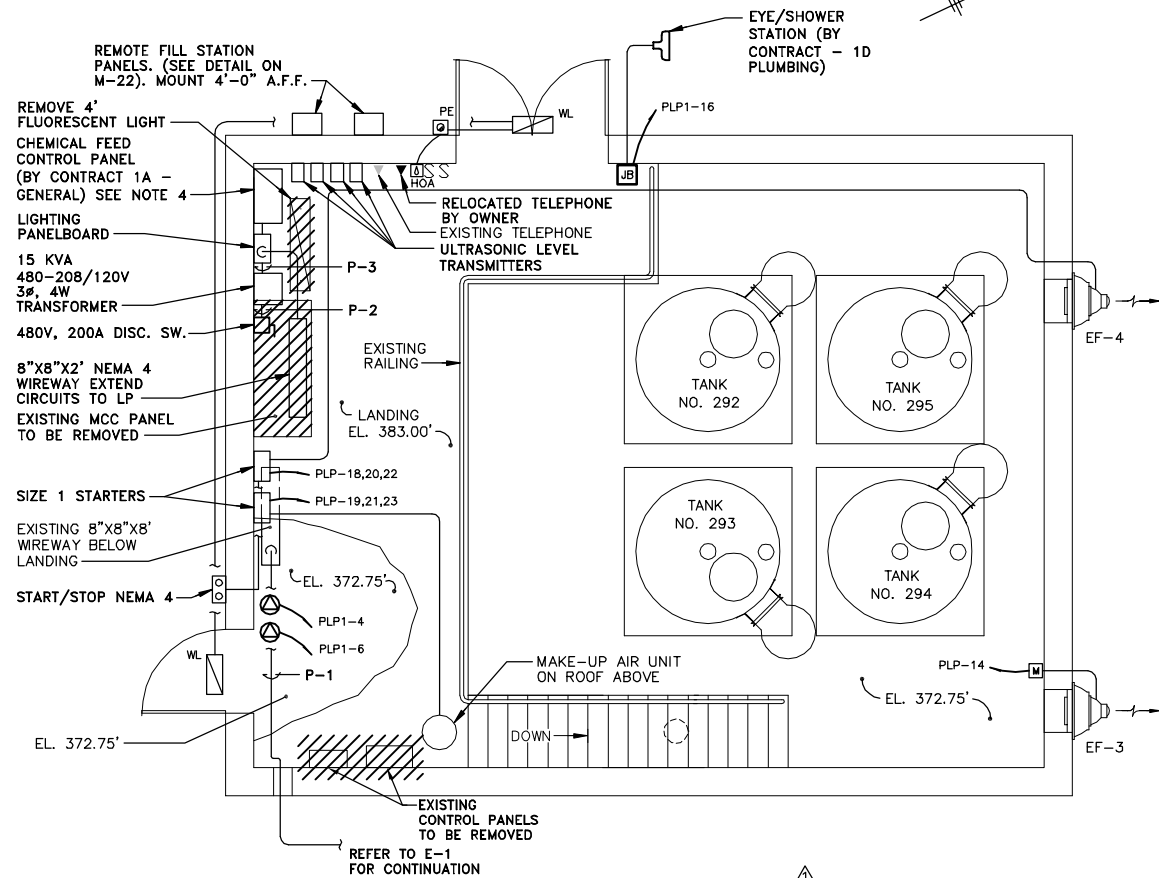
(RECORD DRAWING: MADE FROM DRAWING NO. E-2, TRACER NO. 00365020/DAVIS/0365E02.DWG, DATED 3/5/99)

X: 00365X00, 00365X02, 00365X03.DWG L: ON=*, OFF=REF P: PAGESET: CDL 8/13/02 SYR-54 DCC DJP 00365020/RECORD/DAVIS/00365E02.DWG	Graphic Scale	No.	Date	Revisions	Init	Project Mgr.	JCP
		3/8/99	3/8/99	GENERAL REVISIONS		Designed by	MEE
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW					Drawn by	DCC	
					Checked by	TEL/MEE	
					Prof. Eng.	DONALD GEISSER	
					PE License	N.Y. 57879	

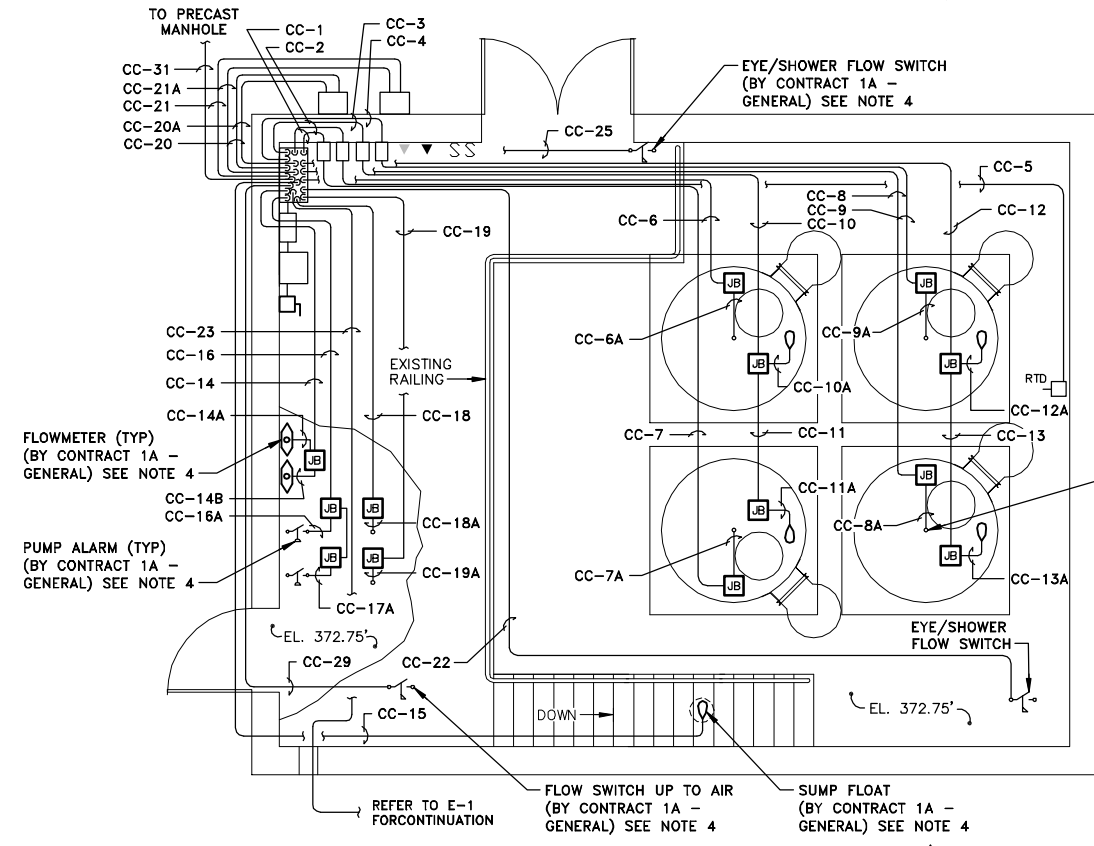
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
CONTROL AND INFLUENT BUILDINGS
ELECTRICAL POWER PLANS
ELECTRICAL

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120



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



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

- NOTES:**
- REFER TO E-8 FOR PANEL AND CONDUIT SCHEDULES.
 - REFER TO E-17 FOR ELEMENTARY DIAGRAM.
 - COORDINATE LOCATION OF ULTRASONIC LEVEL TRANSMITTERS WITH BASKET STRAINERS, REFER TO M-7.
 - CONTRACT 1A - GENERAL SHALL PROVIDE INSTRUMENTATION AND CONTROL PANELS. CONTRACT 1B - ELECTRICAL SHALL PROVIDE WIRES, CONDUIT AND MAKE INTERCONNECTIONS. TYPICAL FOR ALL SITES.
 - ALL WORK BY CONTRACT 1B - ELECTRICAL UNLESS OTHERWISE NOTED.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
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Graphic Scale	No.	Date	Revisions	Init
1/4"=1'-0"	1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	MEE
Drawn by	DCC
Checked by	TEL/MEE
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

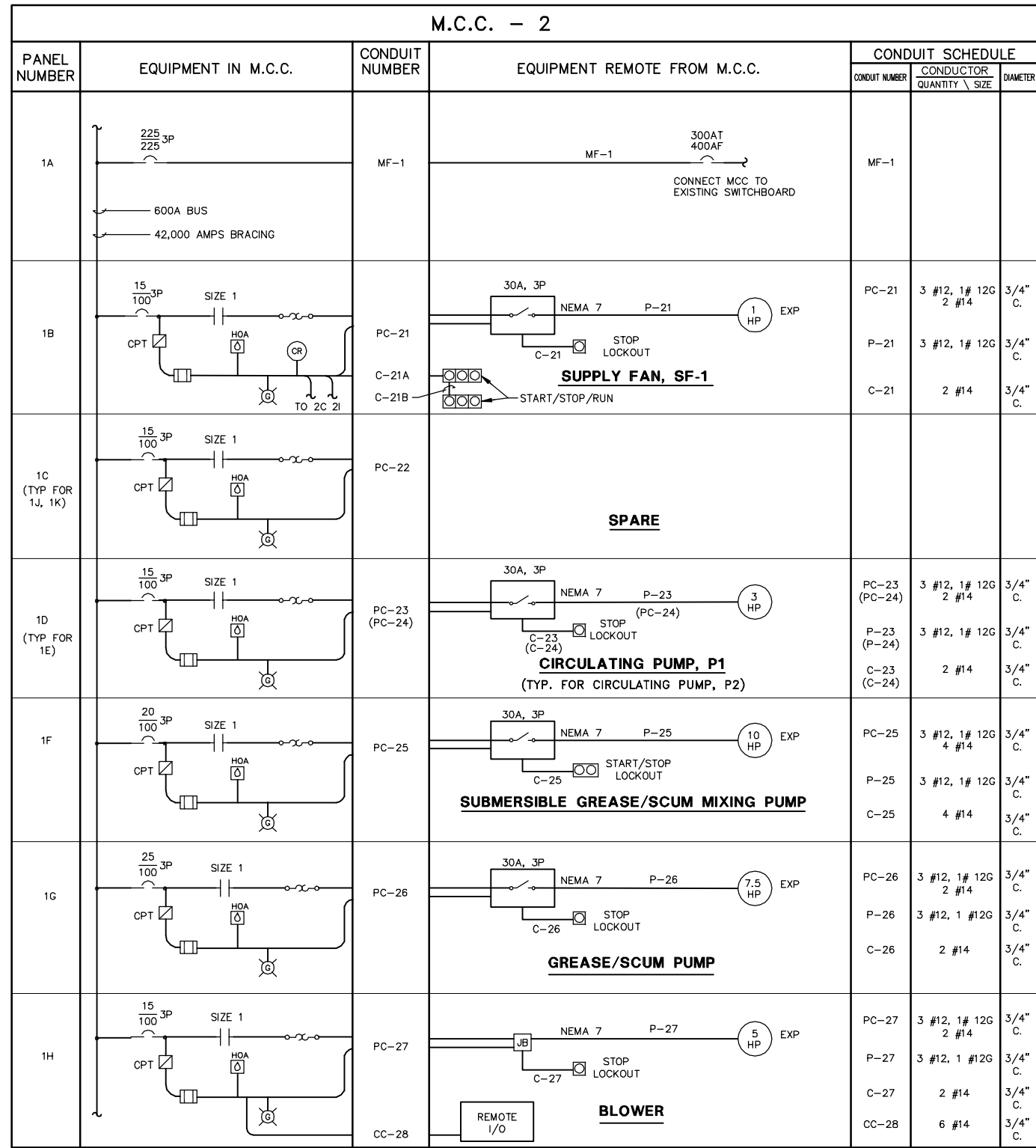


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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
**CHEMICAL STORAGE BUILDING POWER
AND INSTRUMENTATION PLANS**
ELECTRICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

E-3

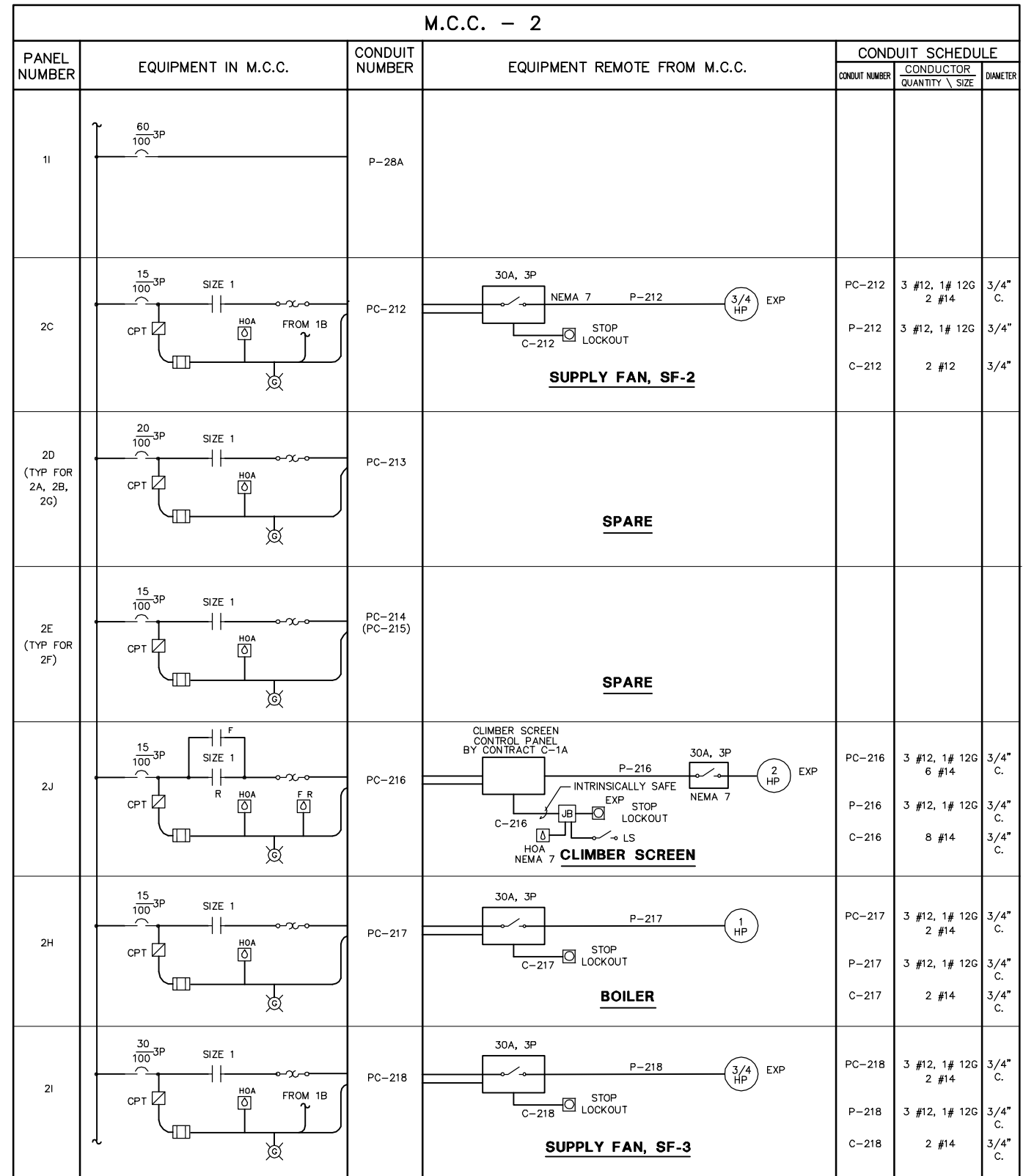
M.C.C. - 2



CONDUIT NUMBER DESCRIPTION

P= POWER
C= CONTROL
PC= POWER & CONTROL
MF= MAIN FEED
P-14
CONDUIT NUMBER

M.C.C. - 2



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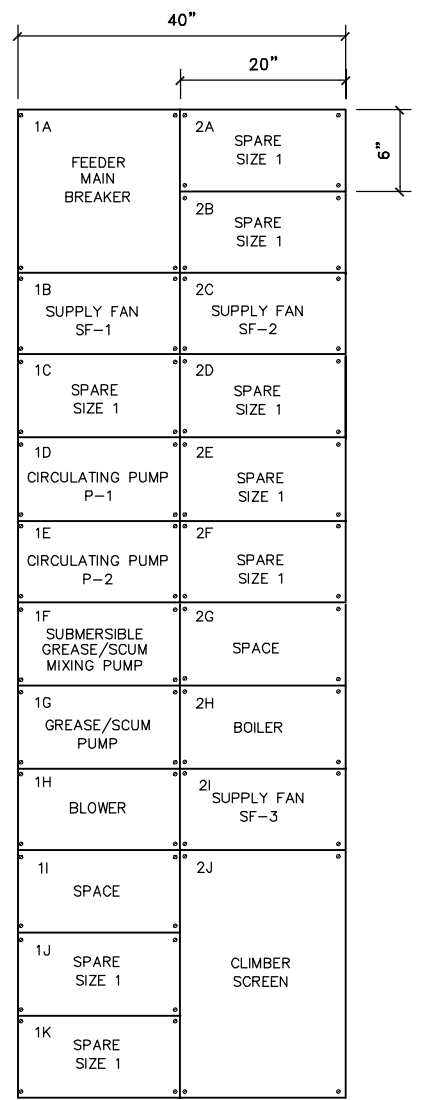
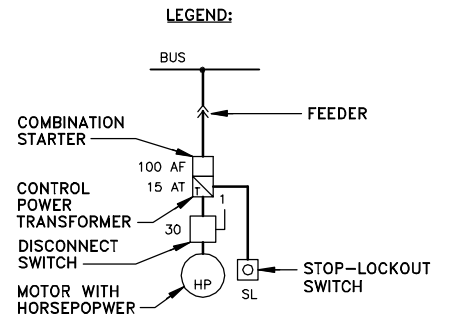
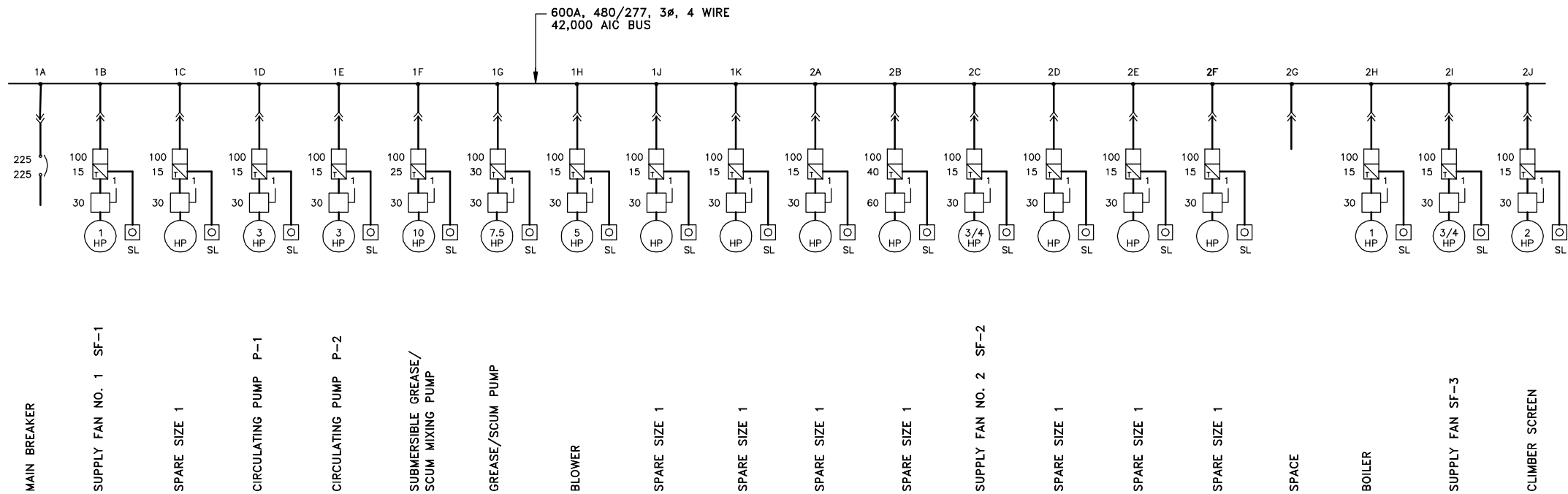
Graphic Scale	No.	Date	Revisions	Init

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Designed by TEL/MEE
Drawn by DCC
Checked by TEL/MEE
Prof. Eng. DONALD GEISSER
PE License N.Y. 57879

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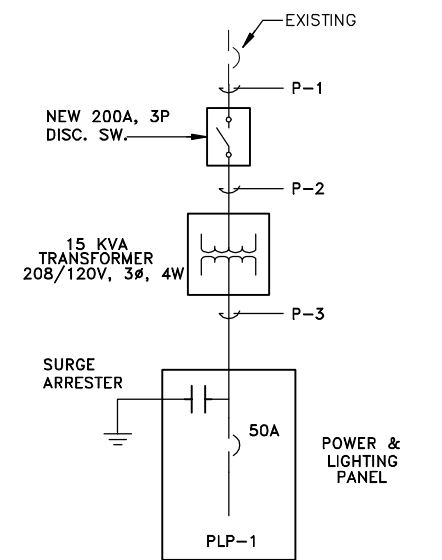
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
CONTROL BUILDING
MOTOR CONTROL CENTER NO. 2
ELECTRICAL

File Number 003.65.006
Date AUGUST 2002
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Corporate Headquarters
6723 Towpath Road
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MOTOR CONTROL CENTER 2, ONE-LINE

MOTOR CONTROL CENTER 2 FRONT VIEW



ONE-LINE DIAGRAM NOT TO SCALE

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(RECORD DRAWING: MADE FROM DRAWING NO. E-5, TRACER NO. 00365020/DAVIS/0365E05.DWG, DATED 3/3/99)

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1	3/8/99	GENERAL REVISIONS	

Project Mgr. --- JCP ---
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Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

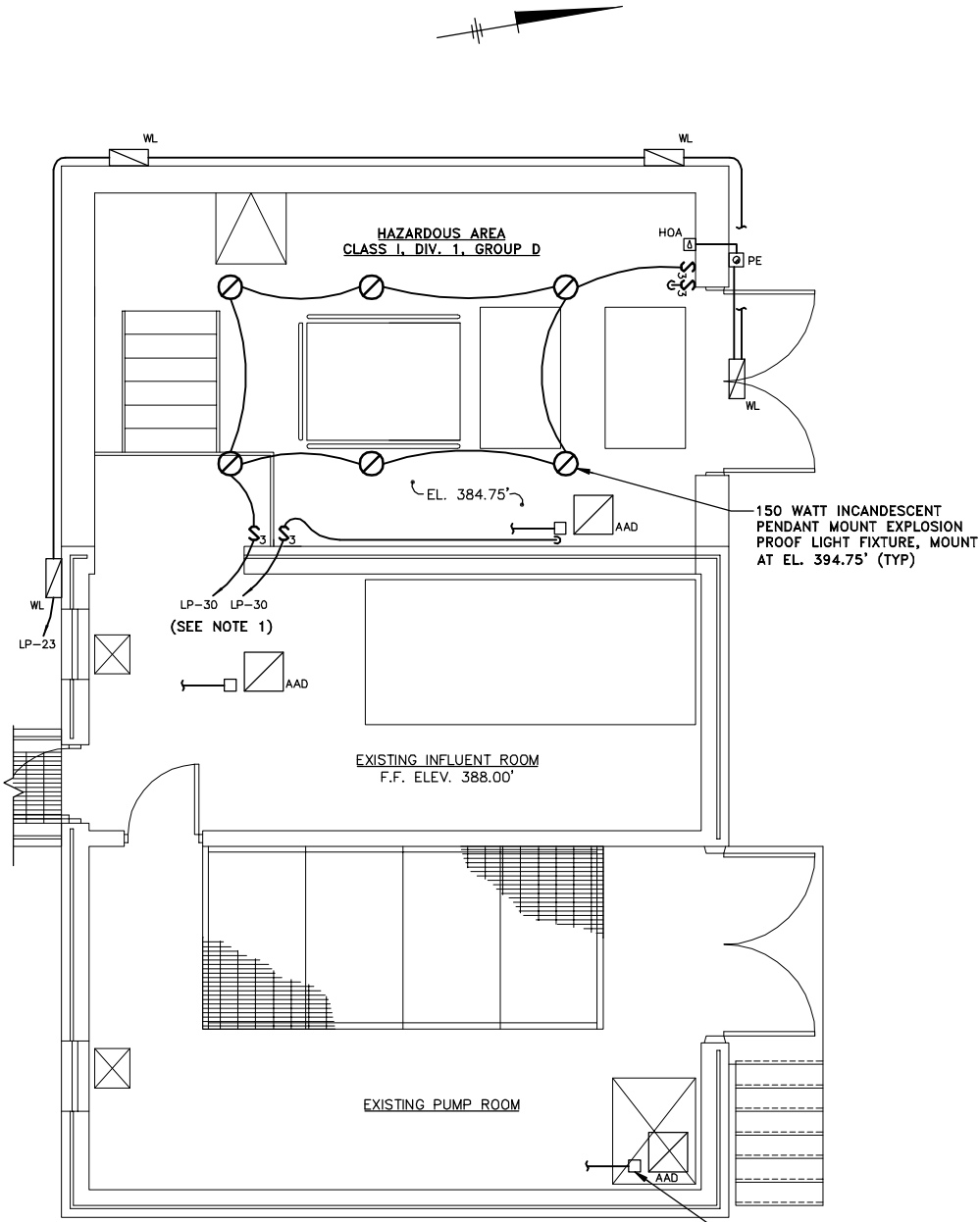
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
CONTROL BUILDING MCC 2
ONE-LINE DIAGRAMS
ELECTRICAL

File Number
003.65.006
Date
AUGUST 2002
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Syracuse, NY 13214
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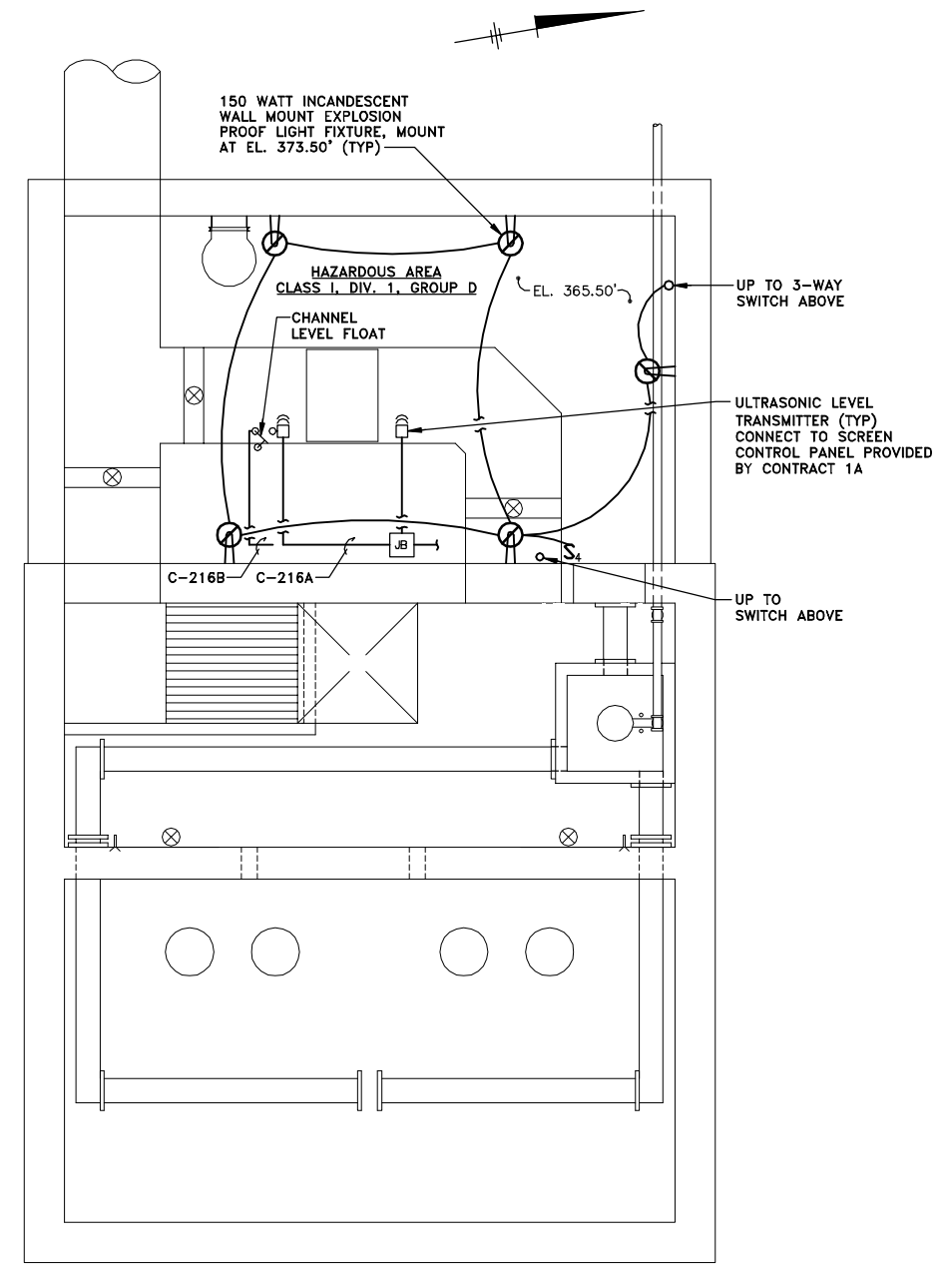
E-5

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AS PROVIDED UNDER SECTION 7209 SUBDIVISION
2 OF THE NEW YORK STATE EDUCATION LAW



LIGHTING PLAN AT EL. 384.75'

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



LIGHTING PLAN AT EL. 365.50'

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

X: 00365X00, 00365X02.DWG
L: ON=*, OFF=*REF*
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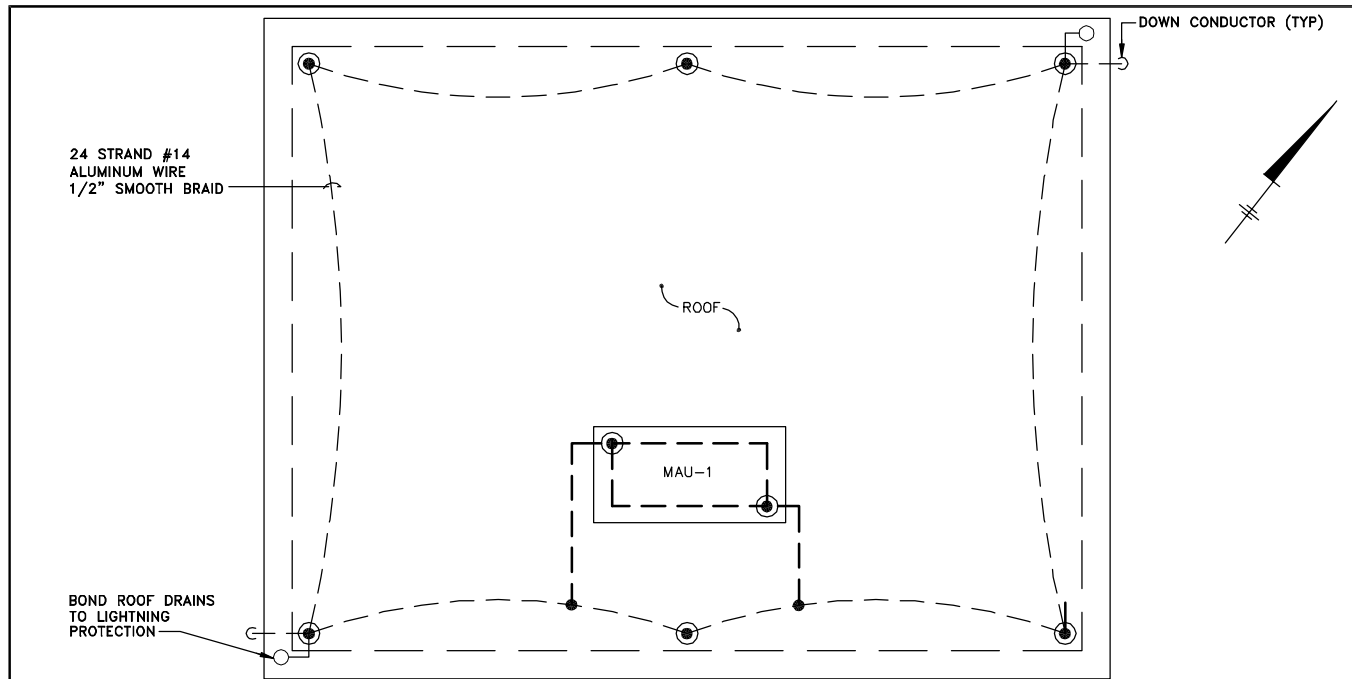
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION

INFLUENT BUILDING LIGHTING PLANS

ELECTRICAL

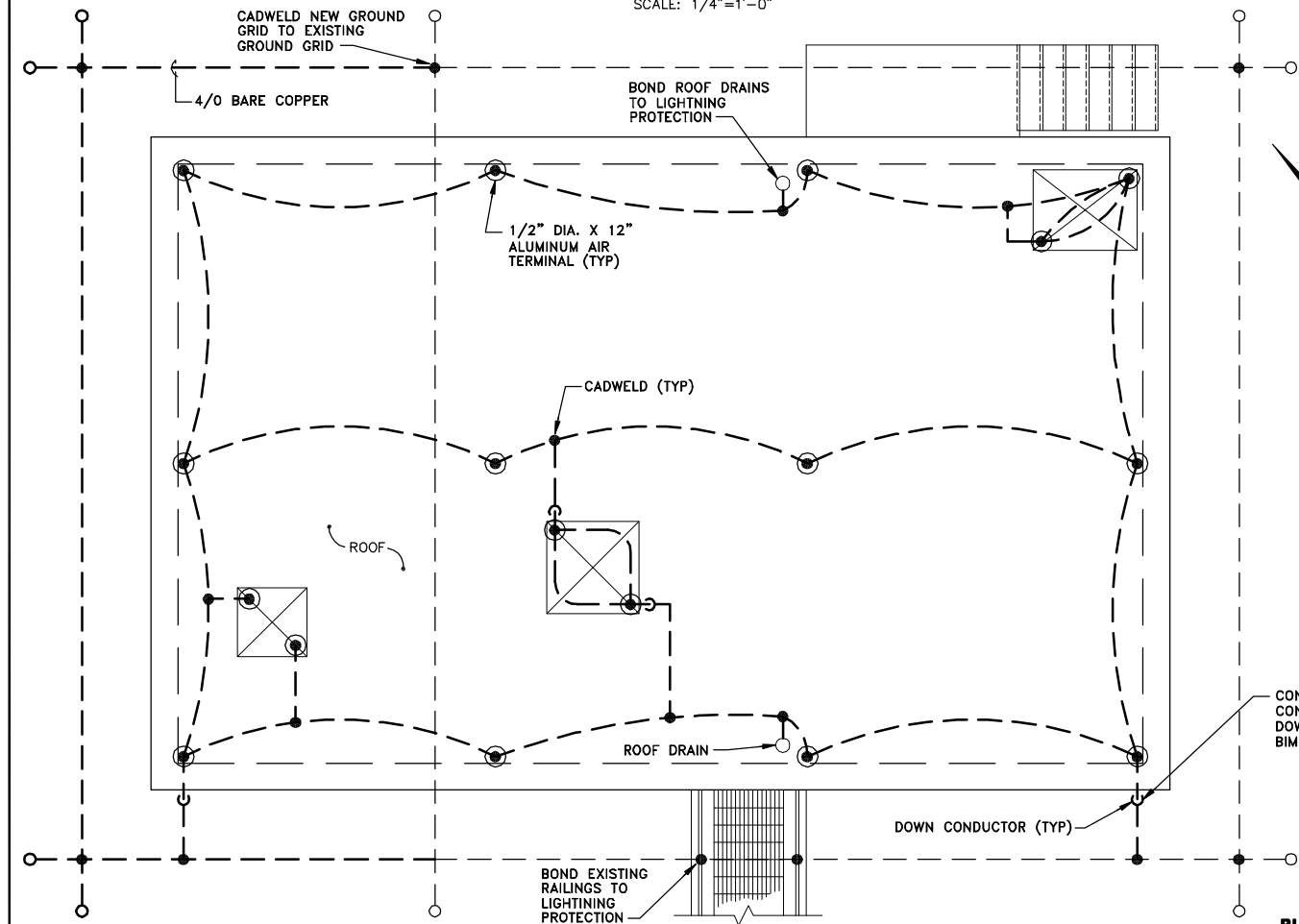
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File Number 003.65.006	E-6
Date AUGUST 2002	
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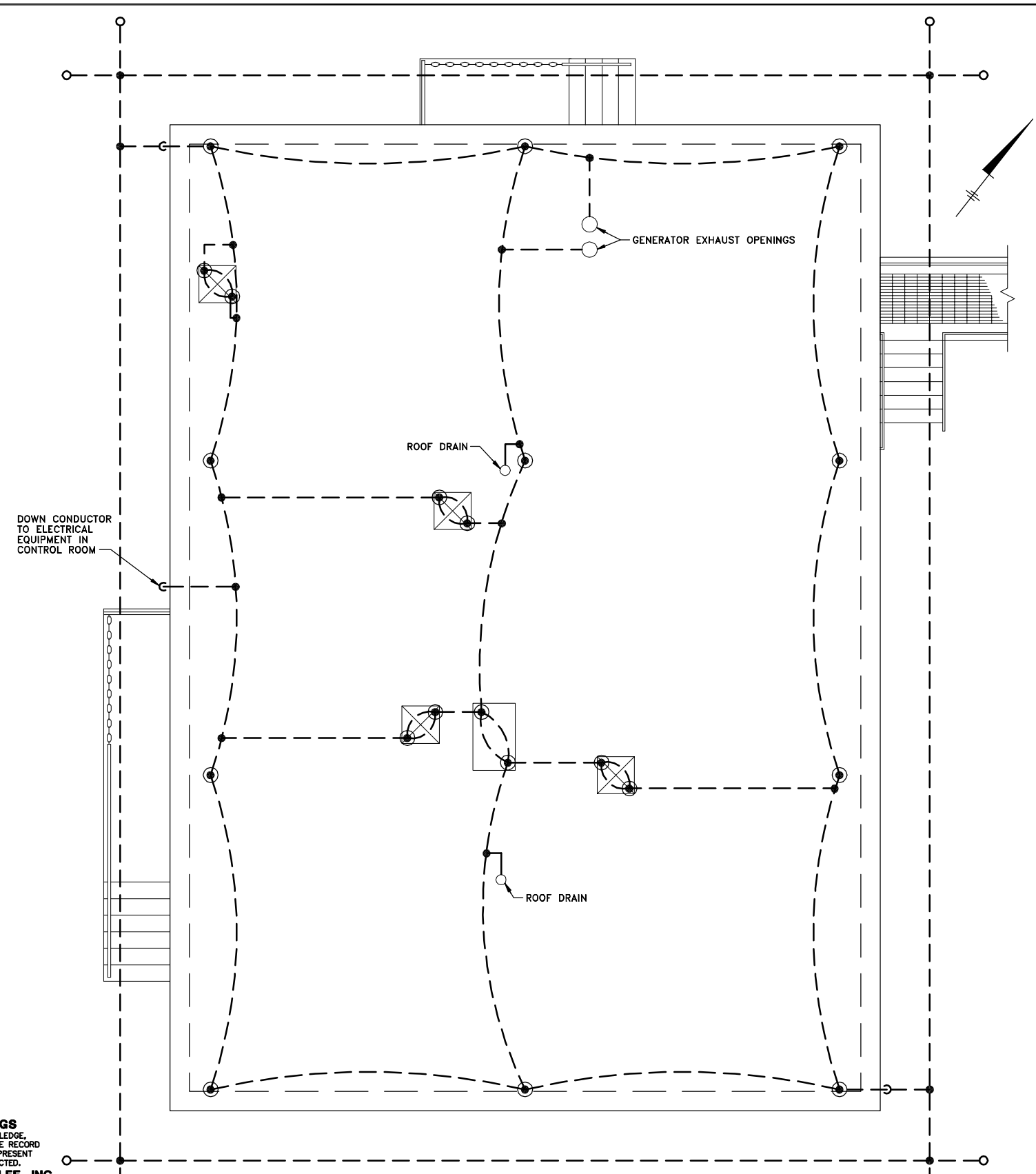
CHEMICAL STORAGE BUILDING LIGHTNING PROTECTION

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



INFLUENT BUILDING LIGHTNING PROTECTION

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



CONTROL BUILDING LIGHTNING PROTECTION

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

X: 00365X00.DWG
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 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 DAVIS ROAD PUMP STATION

INFLUENT, CHEMICAL STORAGE AND CONTROL BUILDINGS LIGHTNING PROTECTION PLANS

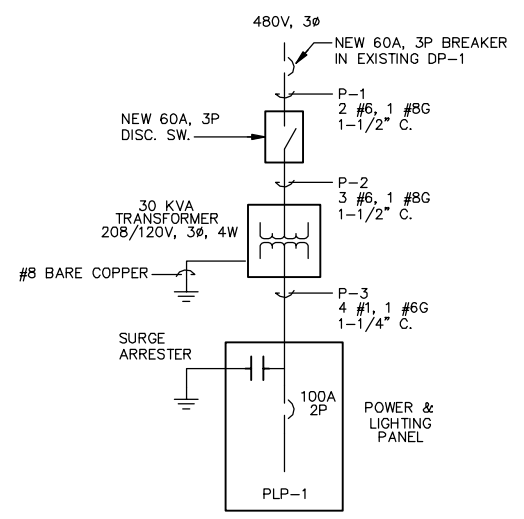
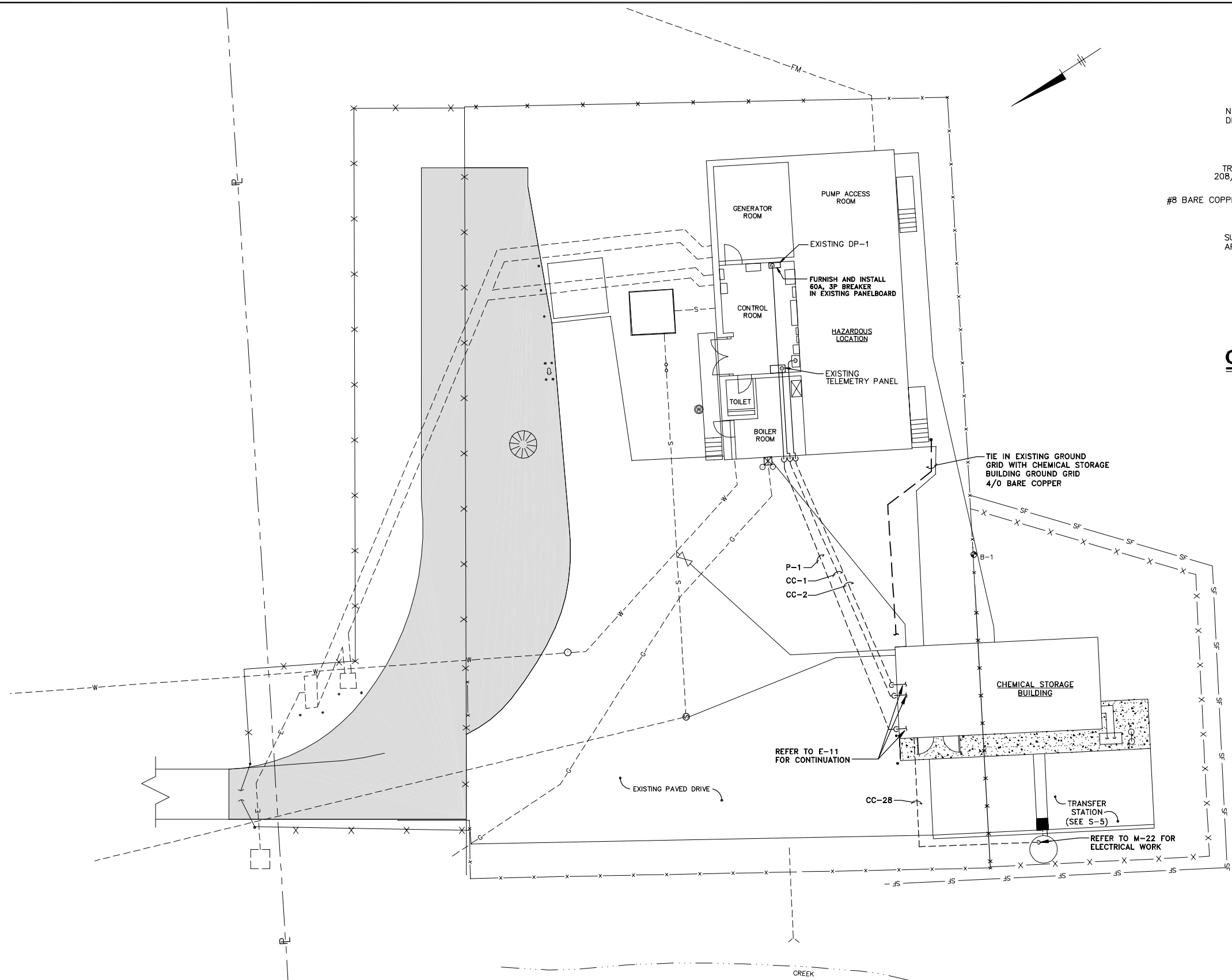
ELECTRICAL

File Number
 003.65.006

Date
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E-7



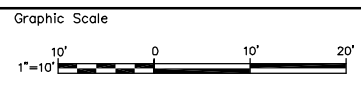
ONE-LINE DIAGRAM
NOT TO SCALE

SITE PLAN
SCALE: 1"=10'

(RECORD DRAWING: MADE FROM DRAWING NO. E-9, TRACER NO. 00365020/GASKIN/0365E09.DWG, DATED 1/29/99)

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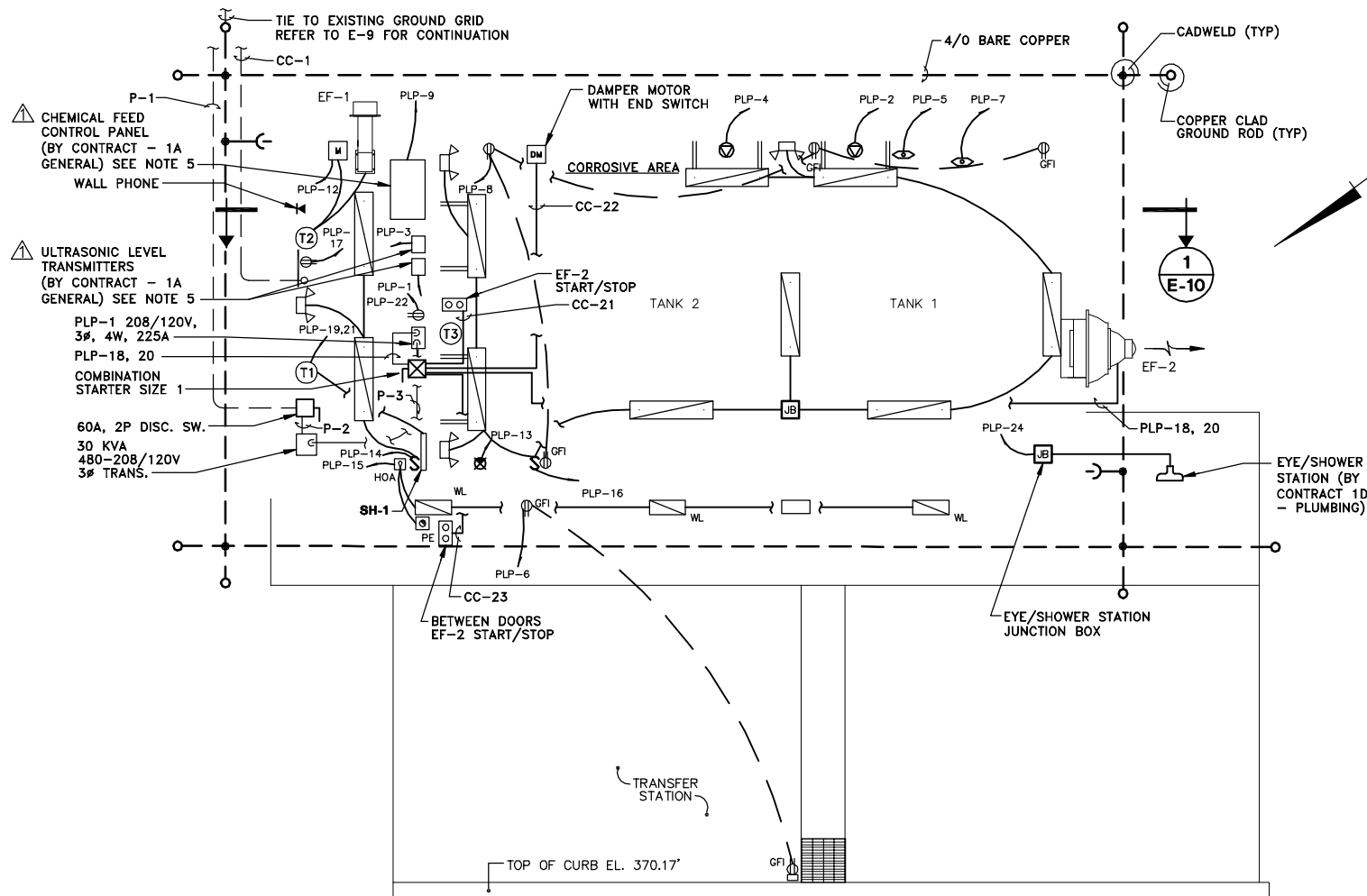
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
GASKIN ROAD PUMP STATION

ELECTRICAL SITE PLAN

ELECTRICAL

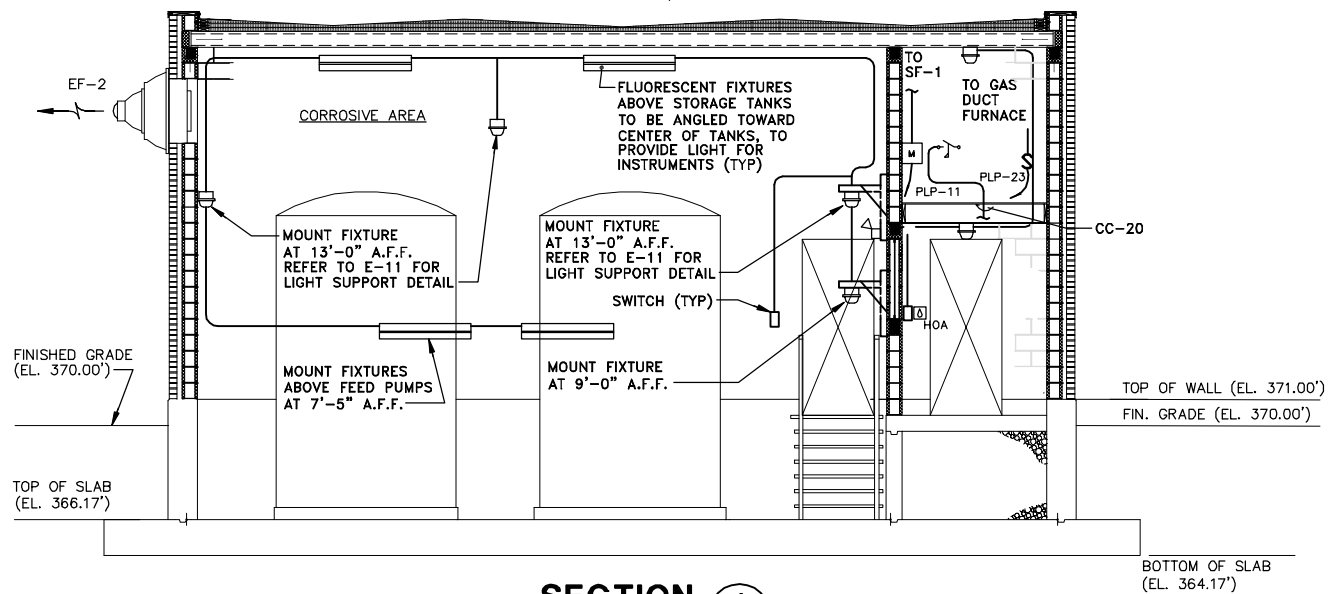
File Number
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315-446-9120

E-9



LIGHTING AND POWER PLAN

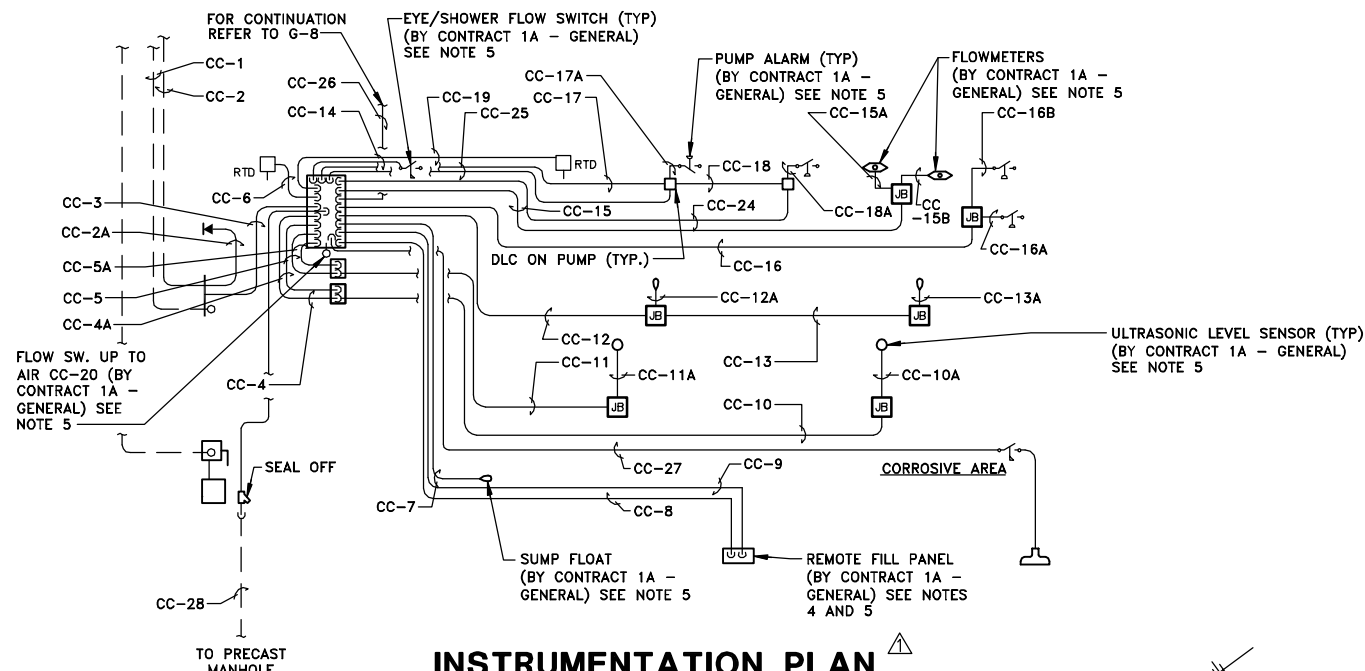
SCALE: 1/4"=1'-0"



SECTION 1
E-10

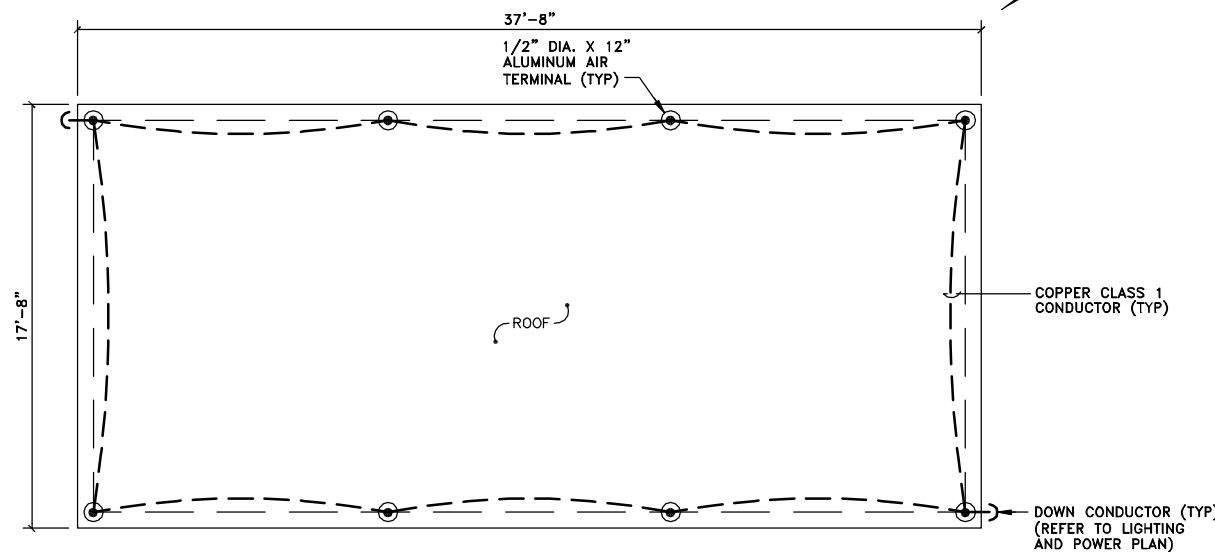
SCALE: 1/4"=1'-0"

- NOTES:**
1. REFER TO E-12 FOR CONDUIT AND PANELBOARD SCHEDULES.
 2. NO CONDUITS SHALL PENETRATE CHEMICAL STORAGE AREA FLOOR OR CONTAINMENT WALL.
 3. MOUNT ALL GFI OUTLETS 4'-0" A.F.F.
 4. MOUNT REMOTE FILL PANEL ON WALL. CONDUIT SHALL EXIT FROM BOTTOM OF PANEL. REFER TO E-11 FOR MOUNTING DETAIL.
 5. CONTRACT 1A - GENERAL SHALL PROVIDE INSTRUMENTATION AND CONTROL PANELS. CONTRACT 1B - ELECTRICAL SHALL PROVIDE WIRES, CONDUIT AND MAKE INTERCONNECTIONS. TYPICAL FOR ALL SITES.
 6. ALL WORK BY CONTRACT 1B - ELECTRICAL UNLESS NOTED OTHERWISE.



INSTRUMENTATION PLAN

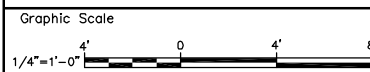
SCALE: 1/4"=1'-0"



LIGHTNING PROTECTION PLAN

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

X: 00365X00, 00365X01.DWG
L: ON=*, OFF=REF
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No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr. --- JCP
Designed by --- TEL/MEE
Drawn by --- DCC
Checked by --- TEL/MEE
Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
**CHEMICAL STORAGE BUILDING
PLANS AND SECTION**

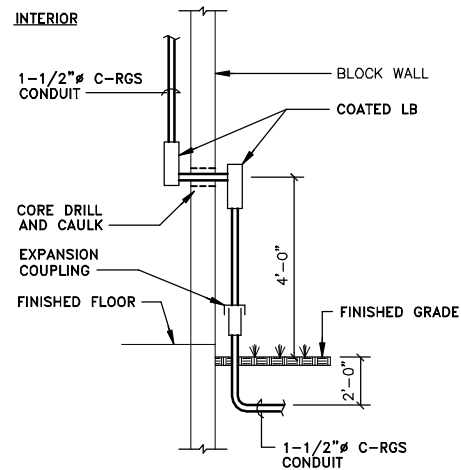
ELECTRICAL

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File Number
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Syracuse, NY 13214
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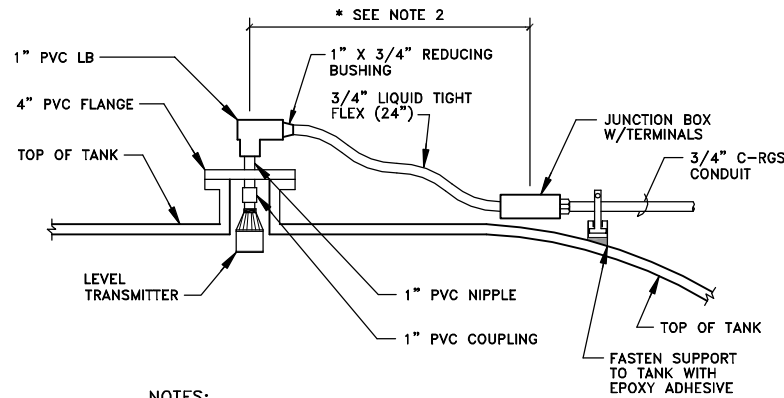
E-10



NOTE:
CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES.

DETAIL A

NOT TO SCALE

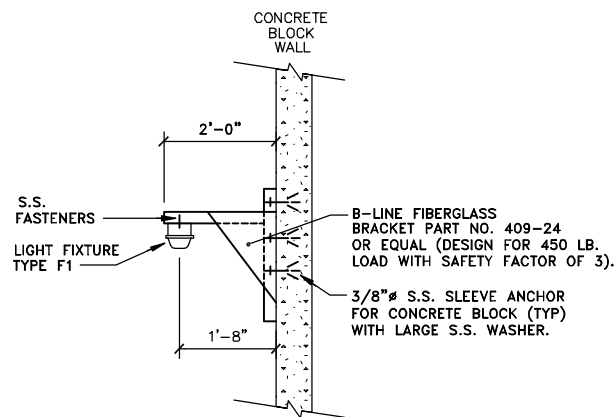


NOTES:

1. PROVIDE INSTALLATION FOR ULTRASONIC LEVEL SENSOR AS DETAILED.
- * 2. LOCATE JUNCTION BOX WITH TERMINALS WITHIN REACH OF LADDER ON SIDE OF TANK.

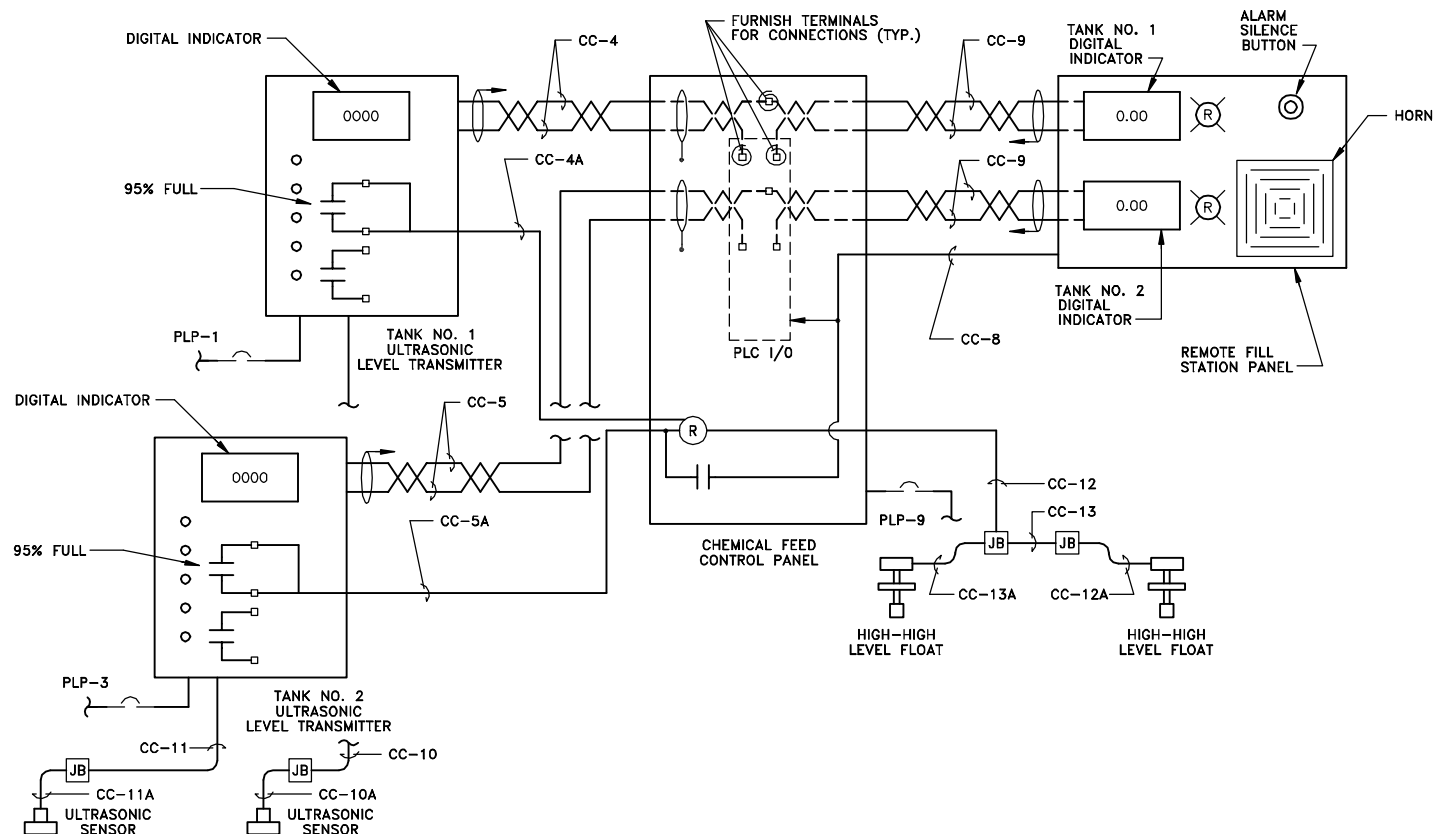
**CHEMICAL STORAGE TANK
LEVEL TRANSMITTER DETAIL**

NOT TO SCALE



LIGHT SUPPORT DETAIL

NOT TO SCALE



STORAGE TANK NO. 1 LEVEL MONITORING DIAGRAM

(TYPICAL FOR TANK NO. 2)

NOT TO SCALE

(RECORD DRAWING: MADE FROM DRAWING NO. E-11, TRACER NO. 00365020/GASKIN/0365E11.DWG, DATED 1/27/99)

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No.	Date	Revisions	Init

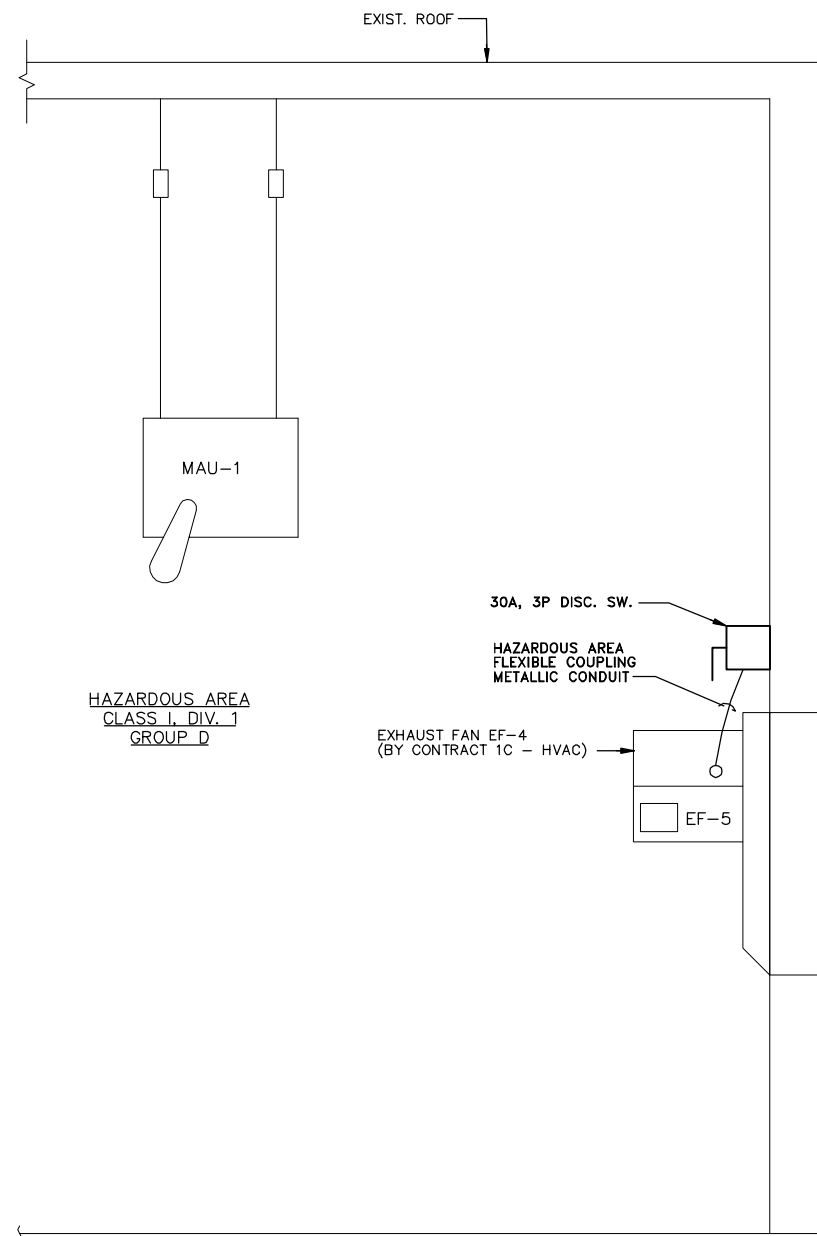
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
**CHEMICAL STORAGE BUILDING
ONE-LINE AND ELEMENTARY DIAGRAMS**
ELECTRICAL

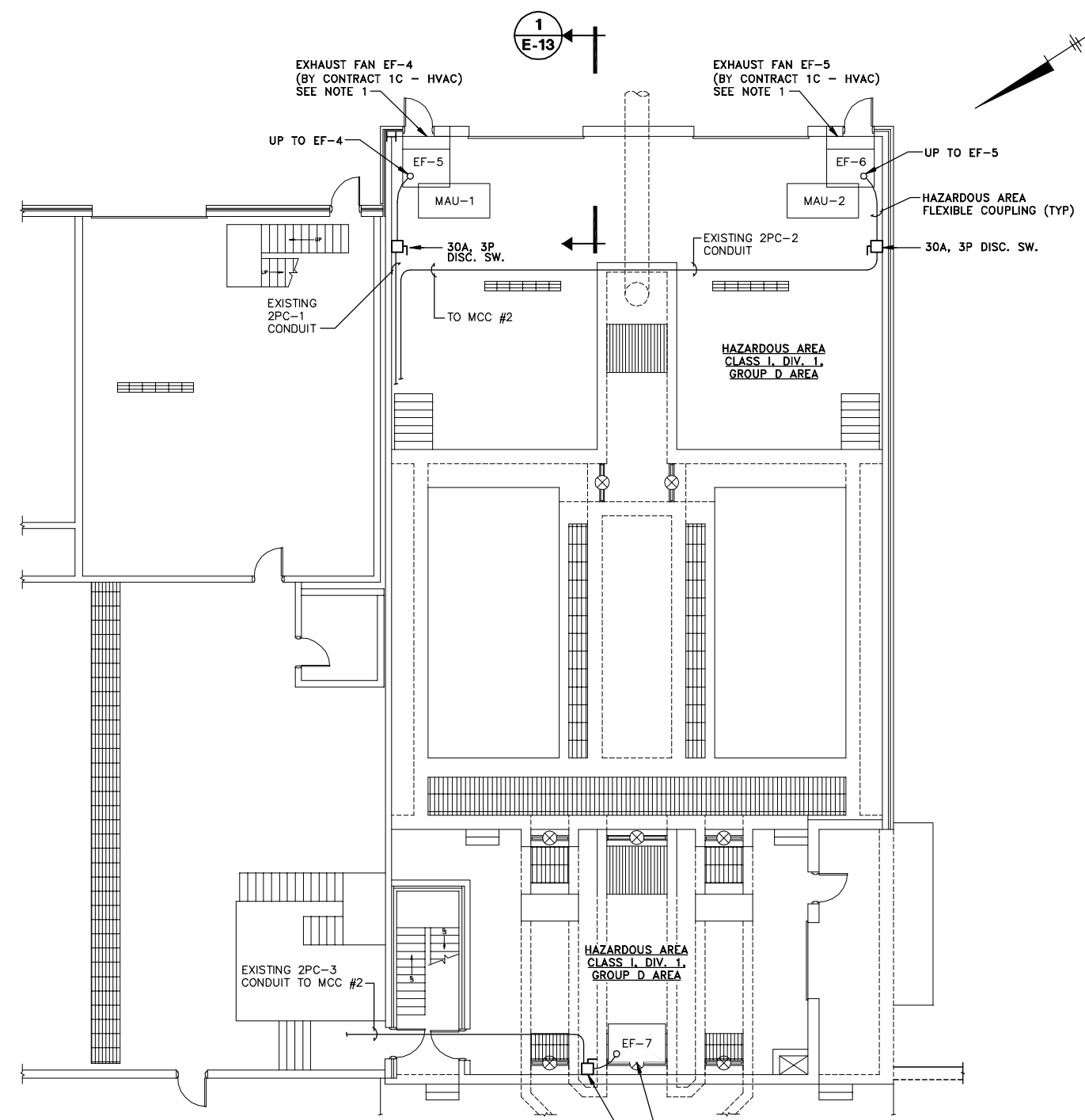
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AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

E-11



NOTE:
1. SIMILAR FOR FANS EF-5 AND EF-6.

SECTION 1
NOT TO SCALE **E-13**

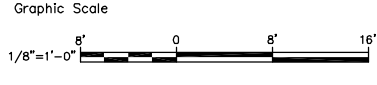


NOTE:
1. ELECTRICAL CONTRACTOR SHALL REUSE EXISTING CONDUITS AND WIRES LEADING TO MAU-1, 2, 3. PROVIDE DISCONNECTS AND LOCATE NO MORE THAN 2 FEET FROM NEW FAN UNITS. USE HAZARDOUS AREA FLEXIBLE METAL COUPLING TO WIRE DISCONNECT SWITCH TO EXHAUST FANS.

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

RECORD DRAWINGS
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Project Mgr.	JCP
Designed by	MEE
Drawn by	DCC
Checked by	TEL/MEE
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

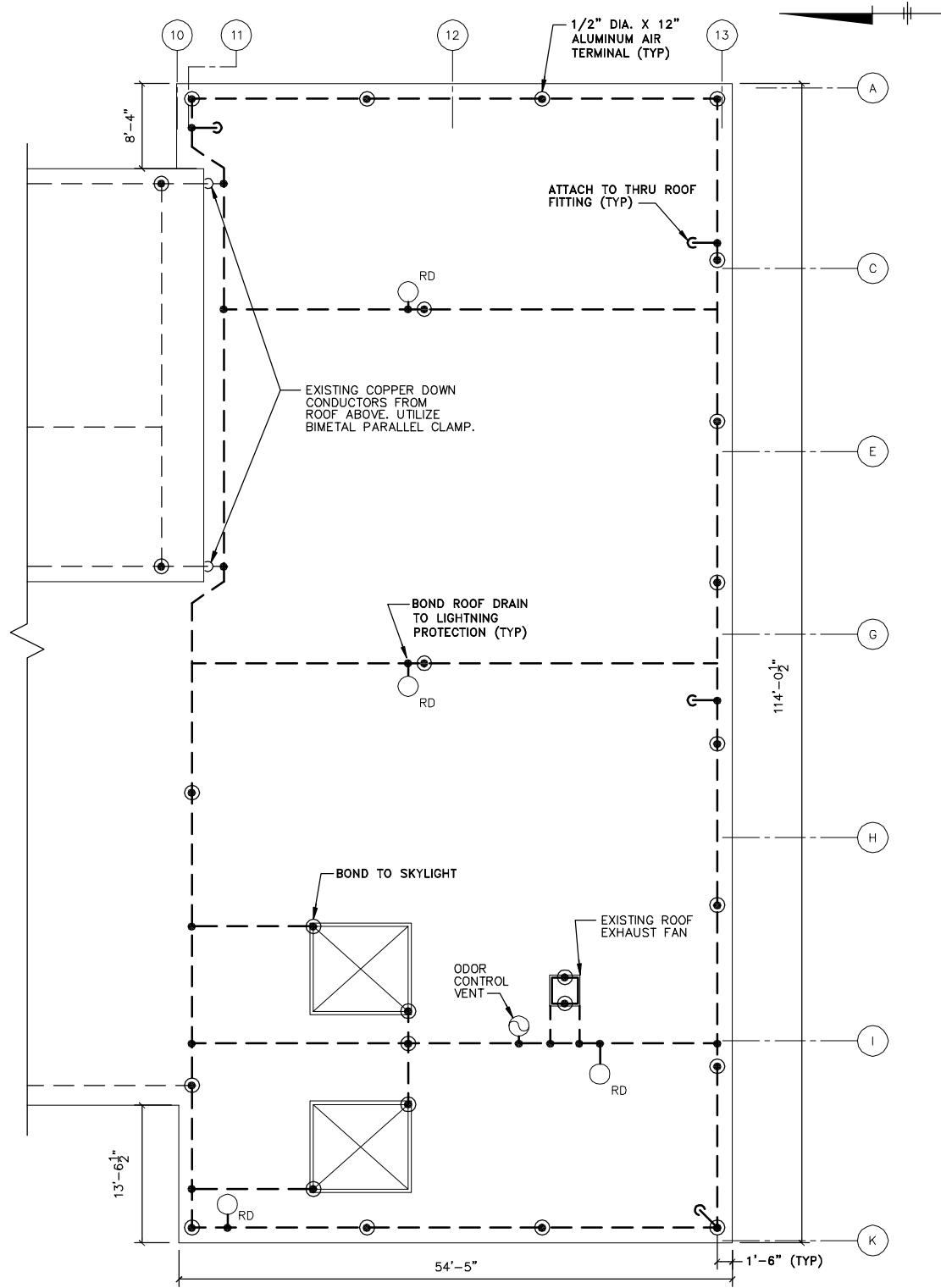
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
SCREEN AND GRIT BUILDING FIRST FLOOR
ELECTRICAL POWER PLAN
ELECTRICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

E-13



NOTE:
1. SEE E-19 FOR ADDITIONAL WORK.

LIGHTNING PROTECTION PLAN

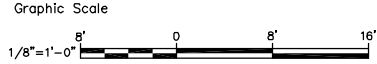
SCALE: 1/8"=1'-0"

RECORD DRAWINGS
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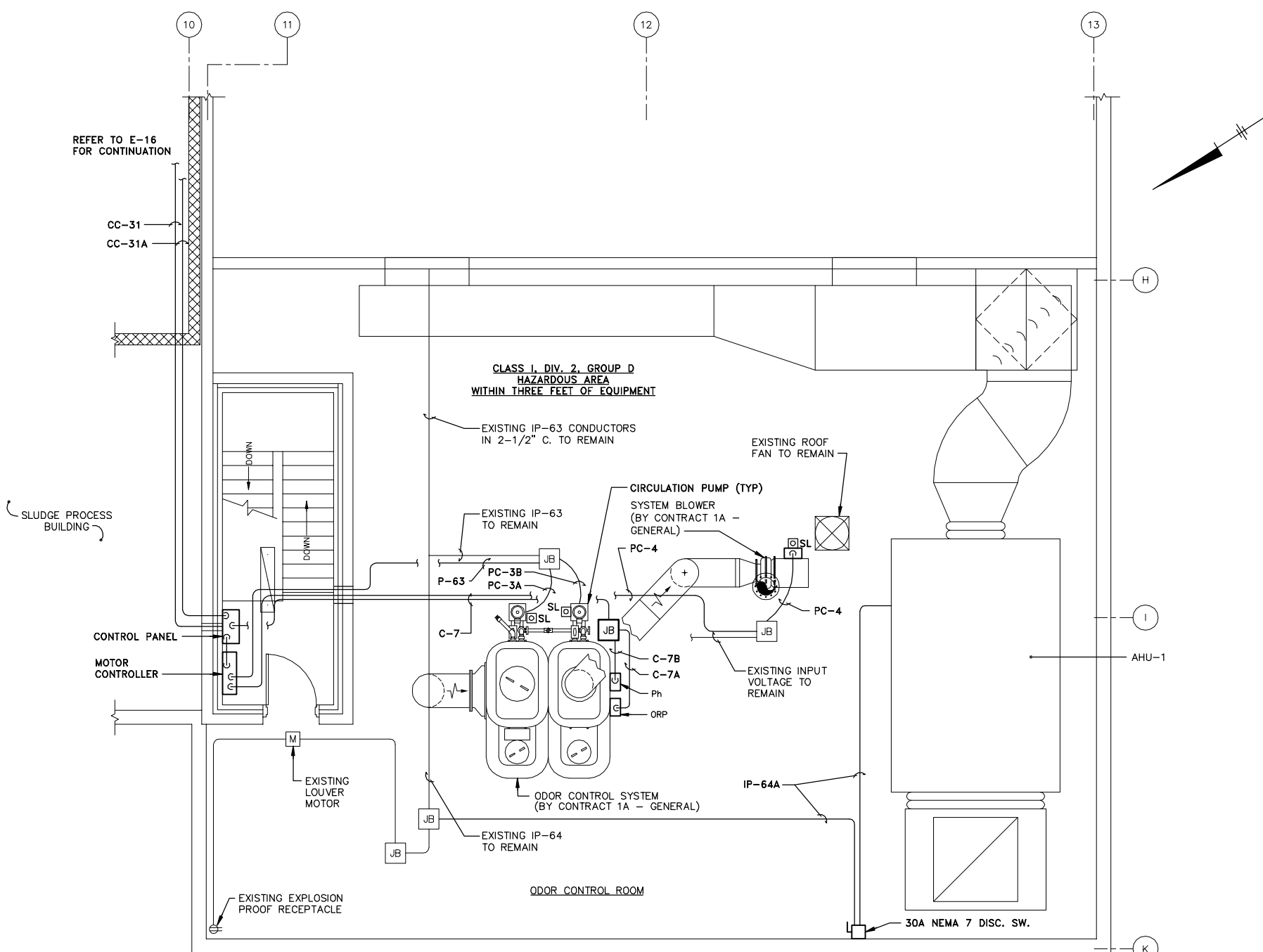
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

**SCREEN AND GRIT BUILDING
LIGHTNING PROTECTION**

ELECTRICAL

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

E-14



NOTES:

1. MOTOR CONTROLLER AND CONTROL PANEL FOR THE ODOR CONTROL SYSTEM SHALL BE LOCATED ON THE TOP STAIRWELL, IN A NON-HAZARDOUS AREA.
2. CONTRACTOR SHALL PROVIDE EXPLOSION PROOF JUNCTION BOXES TO INTERCONNECT EXISTING POWER AND NEW ODOR CONTROL SYSTEM MCC AND PANEL.
3. CONTRACTOR SHALL USE HAZARDOUS AREA FLEXIBLE COUPLING TO CONNECT FROM JUNCTION BOX TO ANY VIBRATING EQUIPMENT. MOUNT JB NO MORE THAN 3 FEET FROM EQUIPMENT.
4. REFER TO E-20 FOR CONDUIT SCHEDULE.
5. LOCATION OF ODOR CONTROL SYSTEM WAS MODIFIED DURING CONSTRUCTION. REFER TO DRAWING M-20 FOR REVISED LOCATION.

POWER PLAN

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

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BLASLAND, BOUCK & LEE, INC.

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Graphic Scale
1/4"=1'-0"
0 4' 8'

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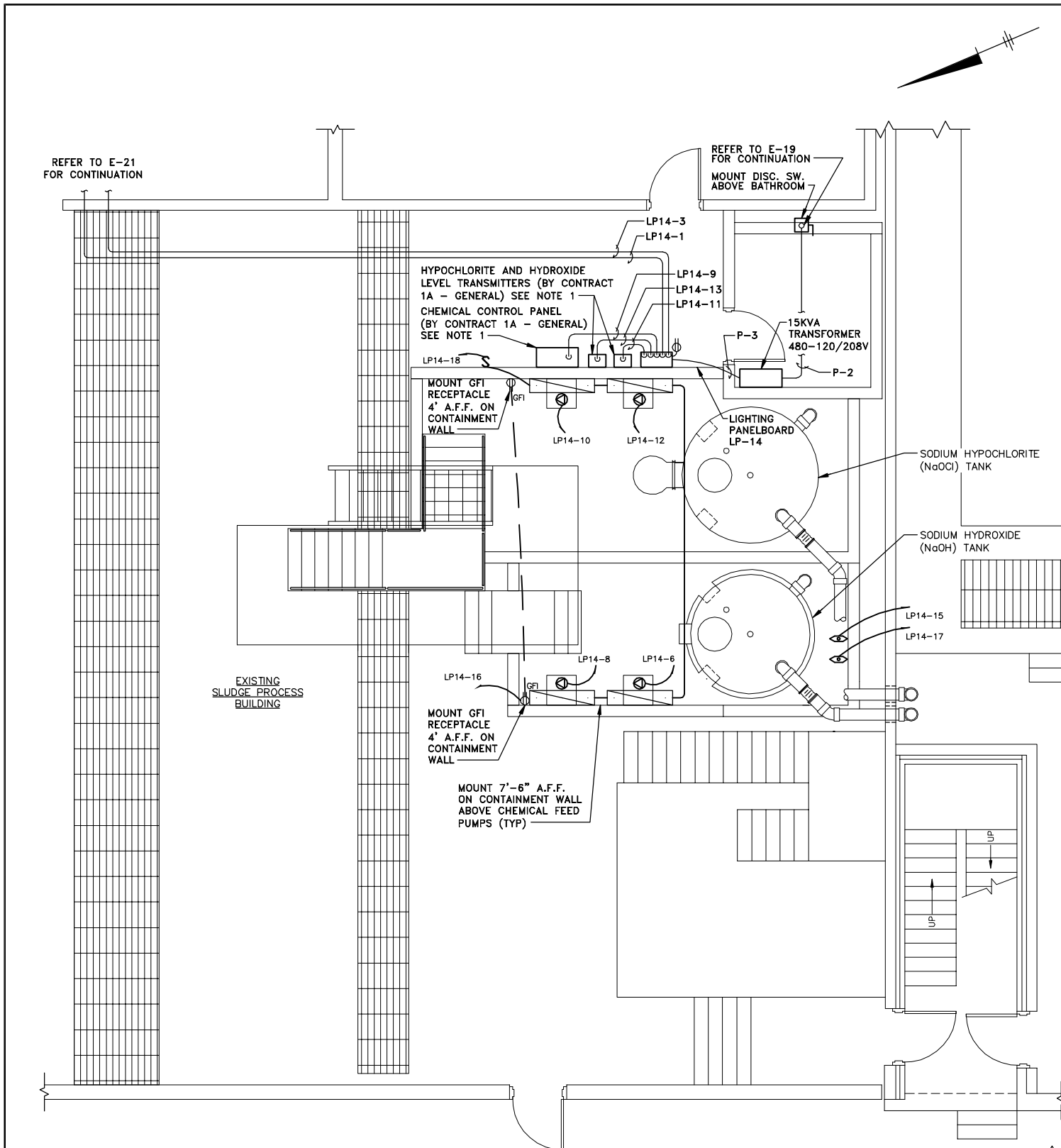
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Drawn by	DCC
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Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
SCREEN AND GRIT BUILDING SECOND FLOOR
POWER PLAN
ELECTRICAL

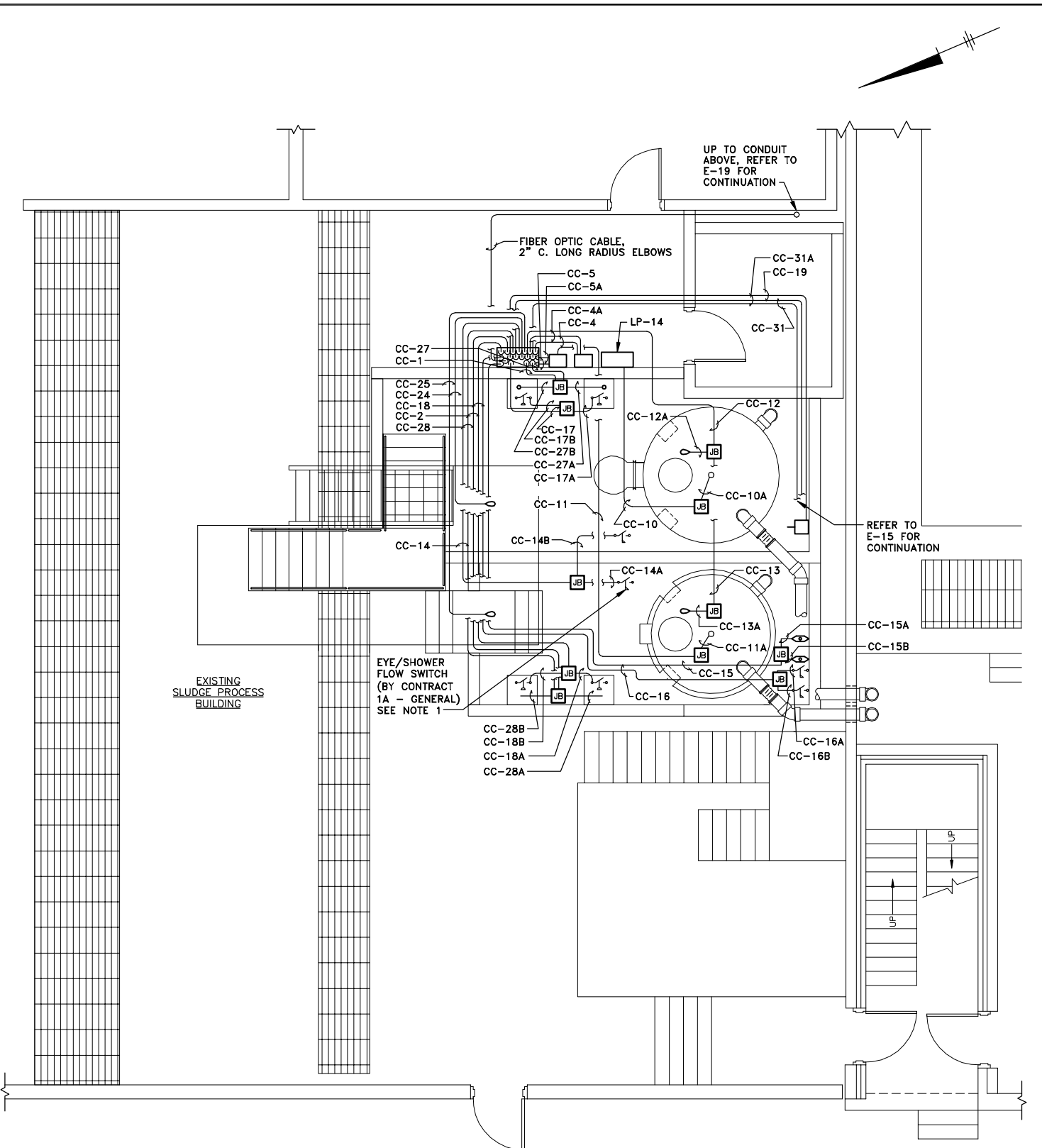
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E-15



POWER AND LIGHTING PLAN

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



INSTRUMENTATION PLAN

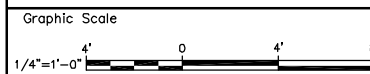
SCALE: 1/4"=1'-0"

GENERAL NOTES:

- CONTRACT 1A - GENERAL SHALL PROVIDE INSTRUMENTATION AND CONTROL PANELS. CONTRACT 1B - ELECTRICAL SHALL PROVIDE WIRES, CONDUIT AND MAKE INTERCONNECTIONS. TYPICAL FOR ALL SITES.
- ALL WORK BY CONTRACT 1B - ELECTRICAL UNLESS NOTED OTHERWISE.

RECORD DRAWINGS
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1	3/8/99	GENERAL REVISIONS	

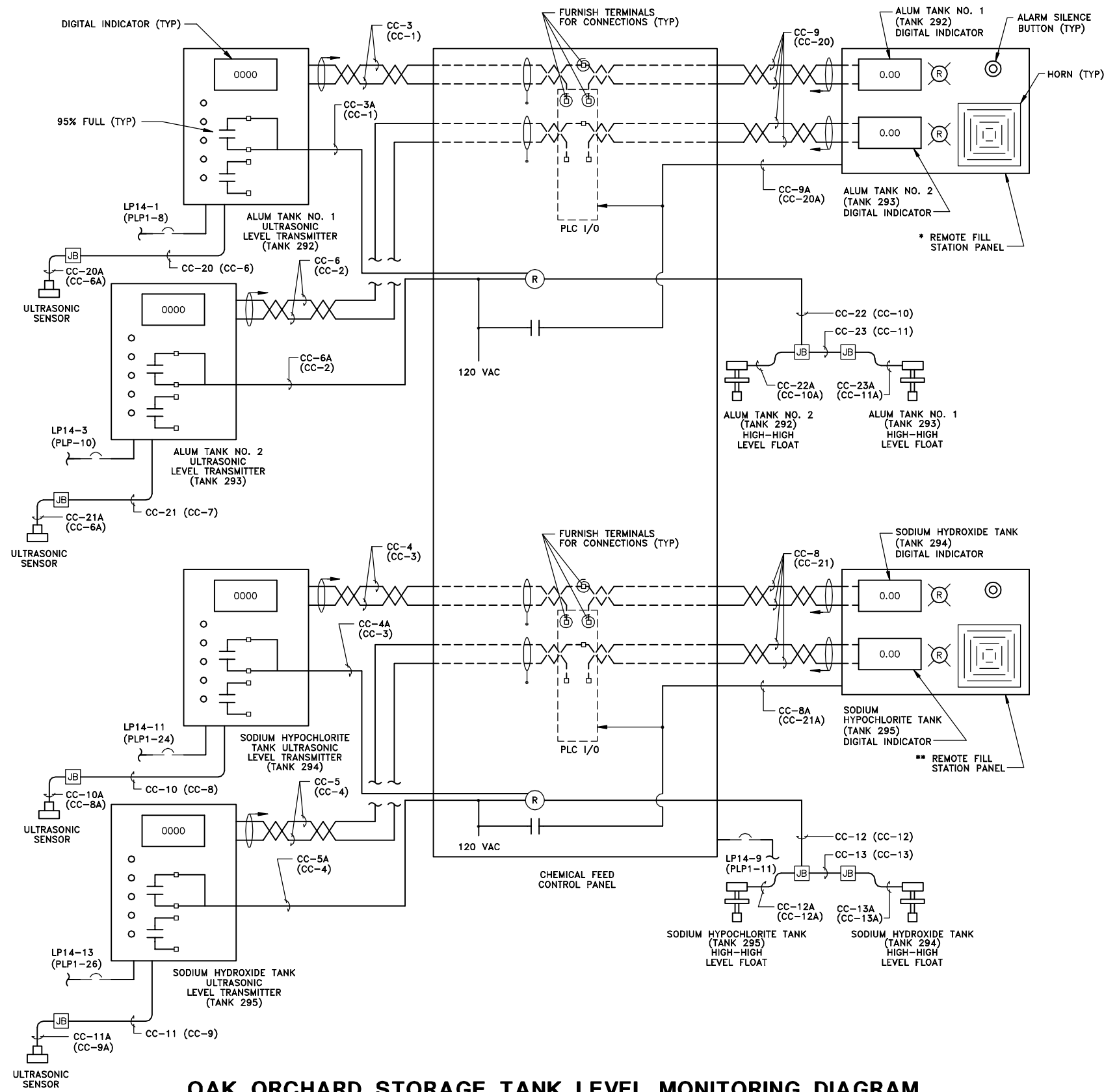
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Drawn by	DCC
Checked by	TEL/MEE
Prof. Eng.	DONALD GEISSER
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
**ODOR CONTROL SYSTEM - POWER,
LIGHTING AND INSTRUMENTATION PLANS**
ELECTRICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	



- * GLUE ENGRAVED LABELS TO INSIDE OF COVER TO NOTE:
- ALUM TANKS 1 & 2
 - WORKING VOLUME 9,500 GALLONS
 - TOTAL CAPACITY 10,000 GALLONS
- ** GLUE ENGRAVED LABELS TO INSIDE OF COVER TO NOTE:
- SODIUM HYDROXIDE TANK
 - WORKING VOLUME 1,000 GALLONS
 - TOTAL CAPACITY 1,100 GALLONS
 - SODIUM HYPOCHLORITE TANK
 - WORKING VOLUME 5,000 GALLONS
 - TOTAL CAPACITY 5,800 GALLONS
- (DAVIS ROAD ONLY)
- SODIUM HYPOCHLORITE TANKS
 - WORKING VOLUME 2,300 GALLONS
 - TOTAL CAPACITY 2,500 GALLONS

OAK ORCHARD STORAGE TANK LEVEL MONITORING DIAGRAM

(TYPICAL FOR DAVIS ROAD)
NOT TO SCALE

(RECORD DRAWING: MADE FROM DRAWING NO. E-17, TRACER NO. 00365020/OAK/0365E17.DWG, DATED 1/29/99)

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BLASLAND, BOUCK & LEE, INC.

No.	Date	Revisions	Init

Project Mgr. --- JCP ---
Designed by --- MEE ---
Drawn by --- DCC ---
Checked by --- TEL/MEE ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---



COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
**ODOR CONTROL AND LIQUID ALUM SYSTEMS
ELEMENTARY DIAGRAM**
ELECTRICAL

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

E-17

CIRCUIT BREAKER PANELBOARD - LP14
LOCATION: OAK ORCHARD, SLUDGE PROCESS BLDG
FEED FROM: 120/208 3 PHASE 4 WIRE
MCC #1: 4 # 8, 1 # 10G
MAIN BUS RATING: 225
MINIMUM SHORT CIRCUIT: 10,000
MAIN BREAKER TRIP: 50
ESTIMATED CONNECTED LOAD: 3.658

OAK ORCHARD ODOR CONTROL AREA CONDUIT SCHEDULE
Table with columns: CKT. NO., CONDUIT SIZE, NO./SIZE CONDUCTORS, FROM, TO
List of circuits including P-1 through P-33, CC-1 through CC-33, and LP14-1 through LP14-20.

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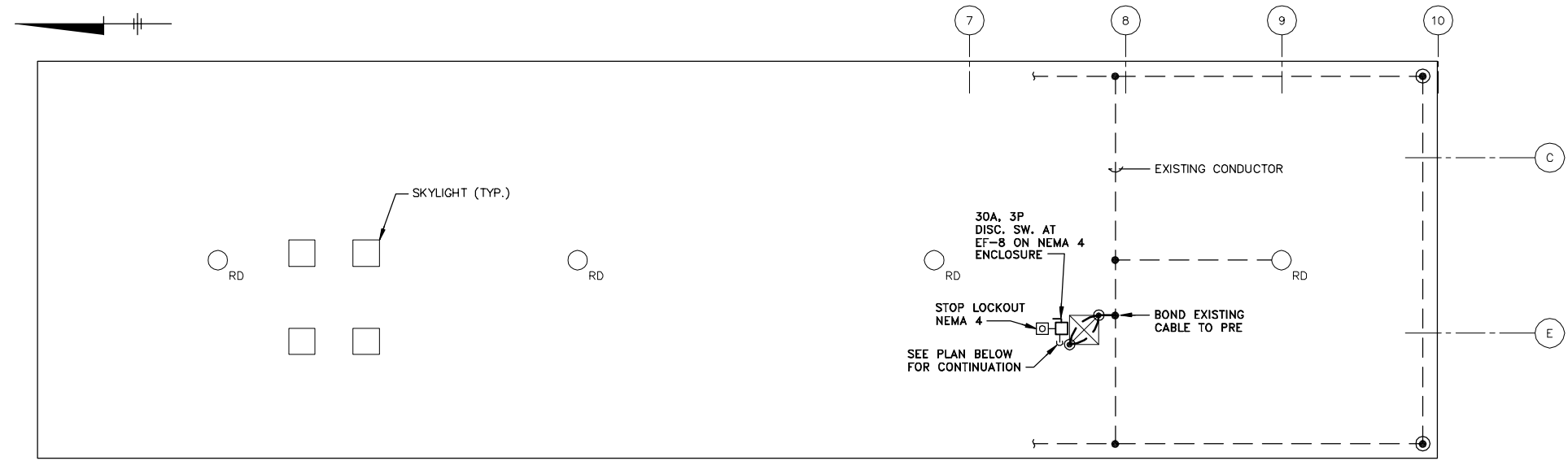
Table for Revisions with columns: No., Date, Revisions, Init.
Also includes Project Mgr., Designer, Drafter, Checker, Prof. Eng., and PE License information.



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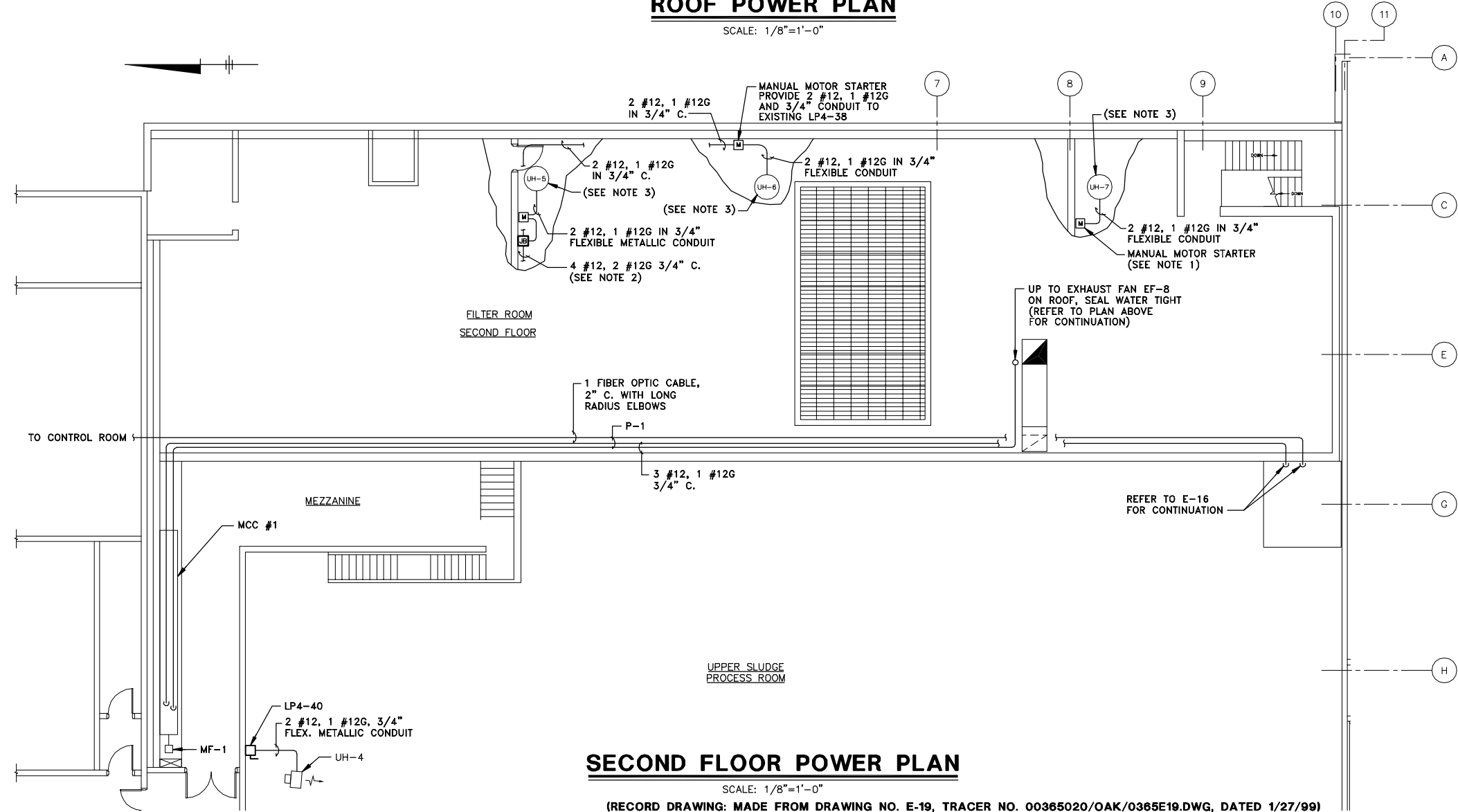
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION - SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
ODOR CONTROL SYSTEM
PANEL AND CONDUIT SCHEDULES
ELECTRICAL

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BLASLAND, BOUCK & LEE, INC.
File Number: 003.65.006
Date: AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120
E-18



ROOF POWER PLAN

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



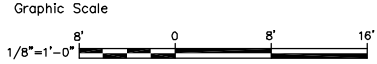
SECOND FLOOR POWER PLAN

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

- GENERAL NOTES:**
1. CONTRACTOR TO REMOVE EXISTING CONDUIT AND WIRE TO UNIT HEATER. MOUNT MANUAL MOTOR STARTER 5'-0" A.F.F. AND CONNECT TO EXISTING POWER.
 2. CONTRACTOR TO PROVIDE NEW JUNCTION BOX AT UH-5 TO CONNECT TO EXISTING POWER. PULL WIRES IN EXISTING CONDUIT TO CONNECT UH-6 TO LP4-38.
 3. UNIT HEATERS ON FIRST FLOOR (TYP). REFER TO H-7 FOR LOCATIONS.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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Project Mgr. --- JCP ---
Designed by --- MEE ---
Drawn by --- DCC ---
Checked by --- TEL/MEE ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---



COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
SLUDGE PROCESS BUILDING
SECOND FLOOR AND ROOF POWER PLANS
ELECTRICAL

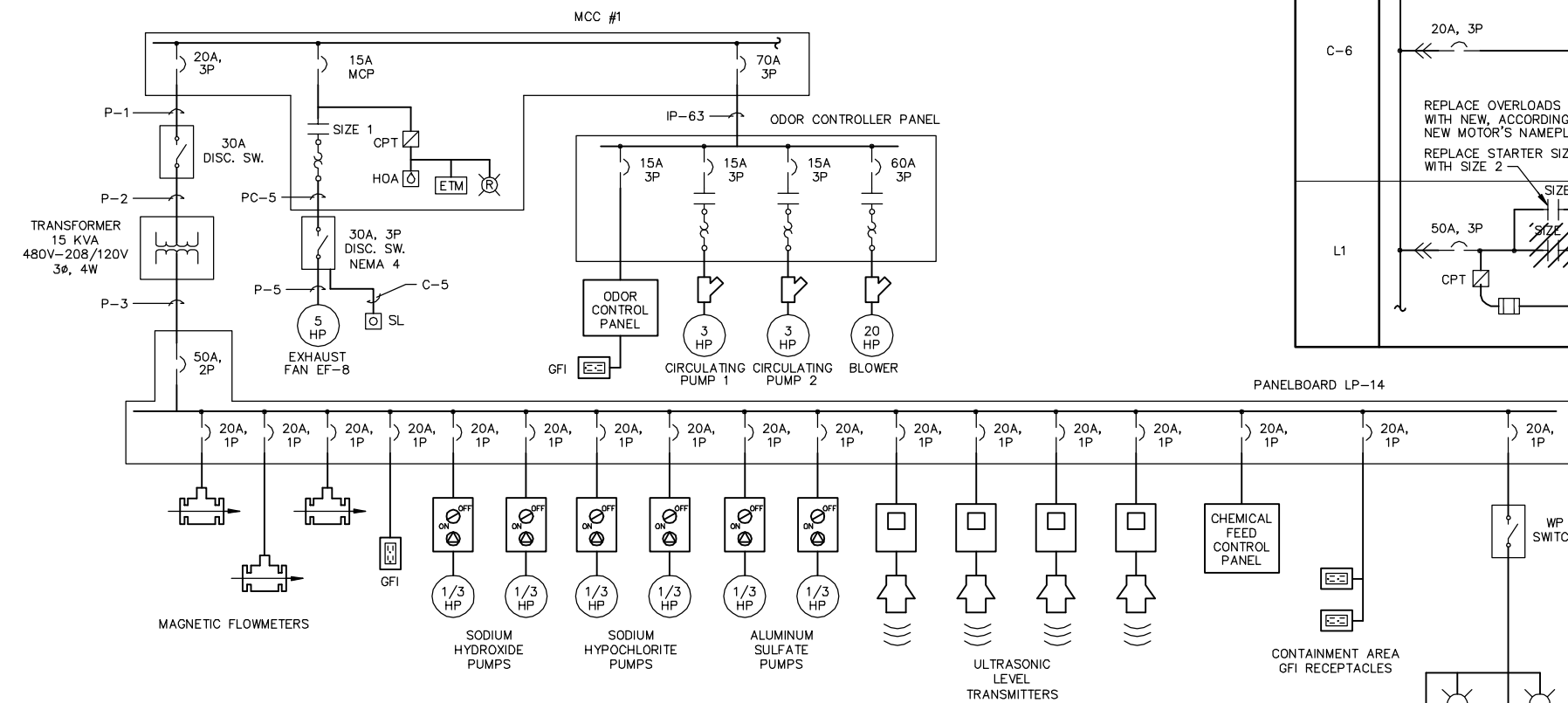
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E-19

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DATE _____ BY _____

M.C.C. - 1						
PANEL NUMBER	EQUIPMENT IN M.C.C.	CONDUIT NUMBER	EQUIPMENT REMOTE FROM M.C.C.	CONDUIT SCHEDULE		
				CONDUIT NUMBER	CONDUCTOR QUANTITY \ SIZE	DIAMETER
K6	<p>REMOVE AND TAPE ENDS OF CONDUCTORS</p> <p>REPLACE OVERLOADS WITH NEW, ACCORDING TO NEW MOTOR'S NAMEPLATE RATING</p>	IP-63	<p>ODOR CONTROL SYSTEM</p>	IP-63	3 #6, 3 #4	2-1/2"
				P-63	6 #12, 4 #14	3/4"
				PC-3	4 #12, 2 #12G, 4 #14	3/4"
				PC-3A	2 #12, 1 #12G, 2 #14	3/4"
				C-3A	2 #14	3/4"
				PC-3B	2 #12, 1 #12G, 2 #14	3/4"
				C-3B	2 #14	3/4"
				PC-4	3 #8, 2 #14	1-1/2"
				C-4	2 #14	3/4"
				C-7	2 TSP # 16	3/4"
C-7A	TSP # 16	3/4"				
C-7B	TSP # 16	3/4"				
C-5		PC-5	<p>EXHAUST FAN EF-8</p>	PC-5	3 #12, 1 #12G, 2 #14	1"
				P-5	3 #12, 1 #12G	3/4"
				C-5	2 #14	3/4"
C-6	<p>REPLACE OVERLOADS WITH NEW, ACCORDING TO NEW MOTOR'S NAMEPLATE RATING</p> <p>REPLACE STARTER SIZE 1 WITH SIZE 2</p>	P-1	<p>LIGHTING PANELBOARD LP-14</p>	P-1	3 #12, 1 #12G	3/4"
				P-2	3 #12, 1 #12G	3/4"
				P-3	4 #8, 1 #10G	1-1/4"
L1		IP-64	<p>AIR HANDLER UNIT AHU-1</p>	IP-64	3 #4	2-1/2"
				IP-64A	3 #10, 1 #10G	3/4"



MCC #1 MODIFICATIONS

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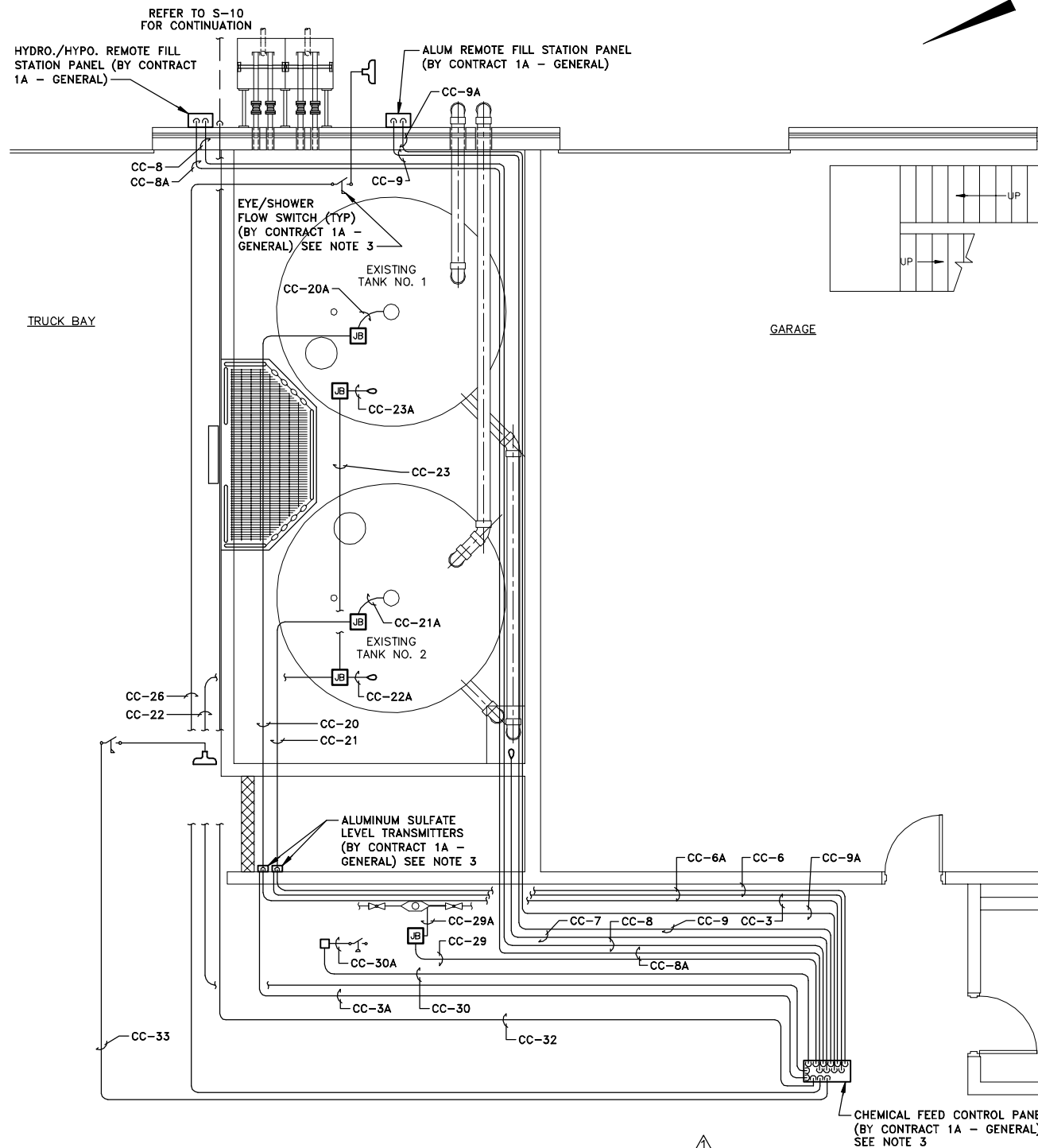
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Drawn by --- DCC ---
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Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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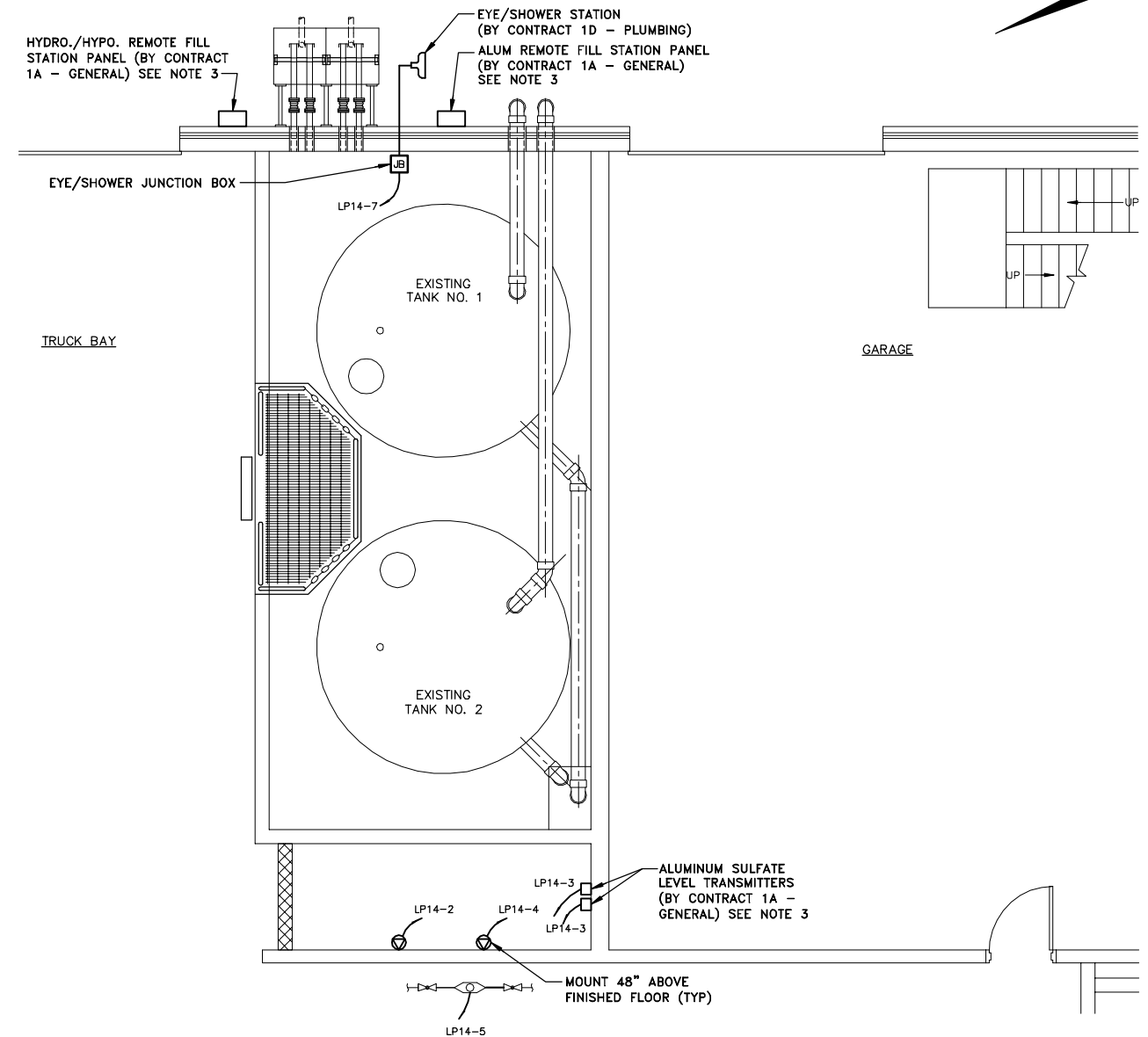
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
SLUDGE PROCESS BUILDING
MCC MODIFICATIONS AND ONE-LINE DIAGRAM
ELECTRICAL

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120



INSTRUMENTATION PLAN

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



POWER PLAN

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

- GENERAL NOTES:**
1. REFER TO E-18 FOR PANELBOARD AND CONDUIT SCHEDULES.
 2. ALL WORK BY CONTRACT 1B - ELECTRICAL UNLESS OTHERWISE NOTED.
 3. CONTRACT 1A - GENERAL SHALL PROVIDE INSTRUMENTATION AND CONTROL PANELS. CONTRACT 1B - ELECTRICAL SHALL PROVIDE WIRES, CONDUIT AND MAKE INTERCONNECTIONS. TYPICAL FOR ALL SITES.

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Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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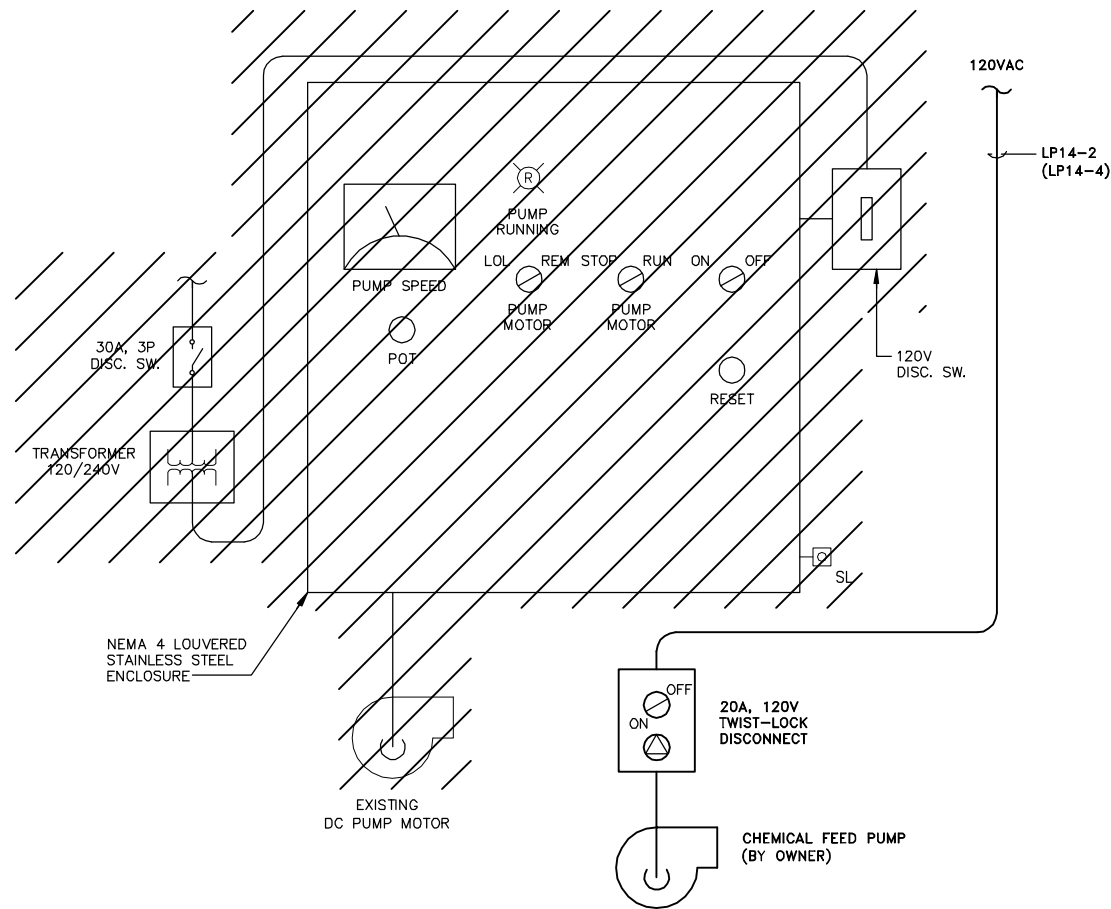
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
**CHEMICAL STORAGE AREA
POWER AND INSTRUMENTATION PLANS**

ELECTRICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

E-21



NOTES:

1. ELECTRICAL CONTRACTOR TO REMOVE CONTROL PANEL, DISCONNECT SWITCHES, TRANSFORMERS AND DC PUMPS AT THE ALUMINUM SULFATE TANK AREA FOR ALL THREE SETS OF PUMPS.
2. GENERAL CONTRACTOR TO INSTALL A TOTAL OF TWO PULSA-FEEDER PUMPS AND ELECTRICAL CONTRACTOR TO PROVIDE TWIST-LOCK DISCONNECTS AT THE ALUMINUM SULFATE TANK AREA.
3. ELECTRICAL CONTRACTOR SHALL DELIVER REMOVED ELECTRIC CONTROLS AND DISCONNECTS TO COUNTY.

CONTROL PANEL MODIFICATIONS

NOT TO SCALE

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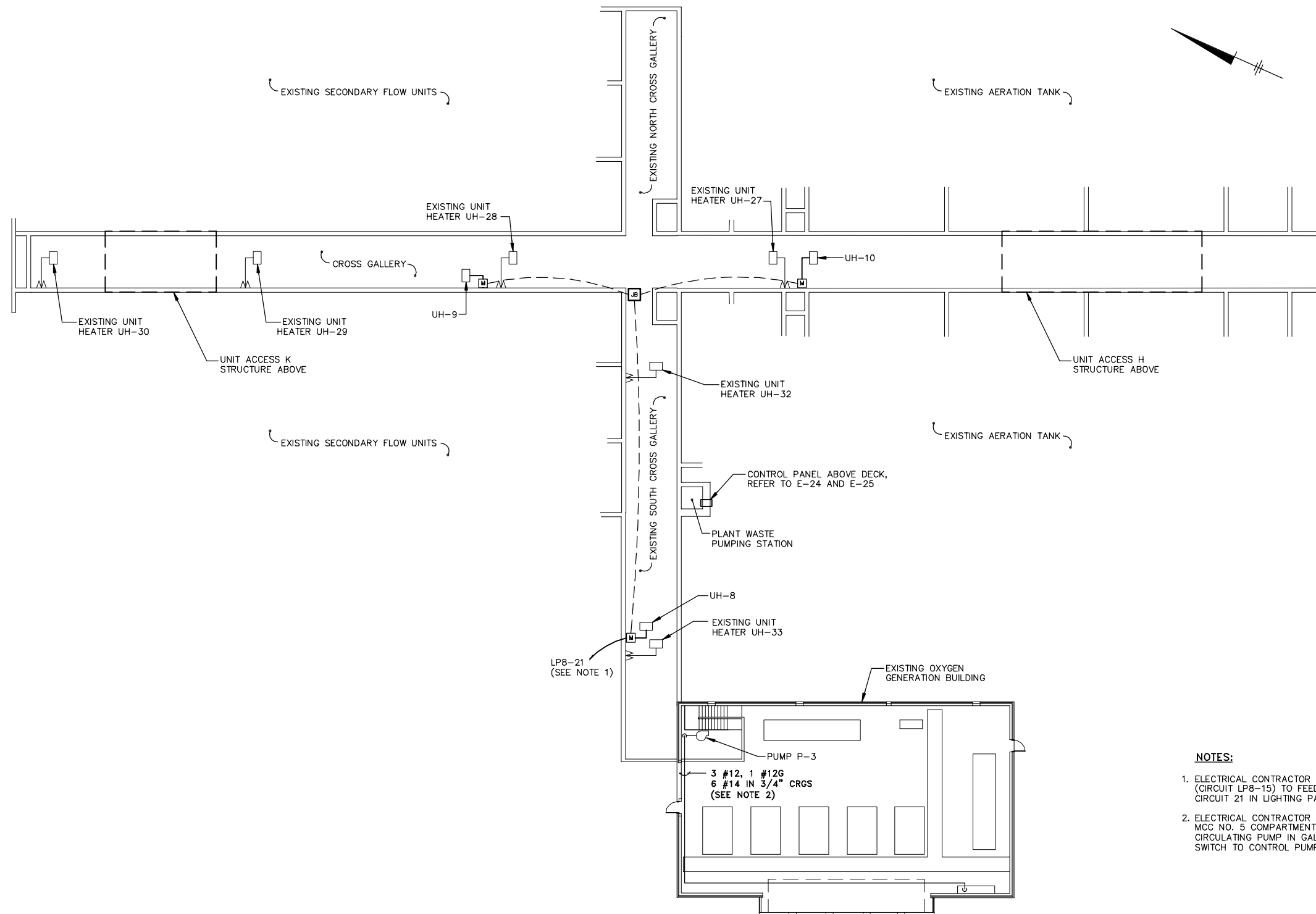
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 OAK ORCHARD WASTEWATER TREATMENT PLANT
CHEMICAL STORAGE AREA
CONTROL PANEL MODIFICATIONS
 ELECTRICAL

File Number
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 Blasland, Bouck & Lee, Inc.
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E-22



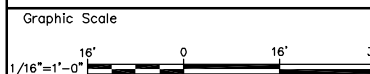
- NOTES:**
1. ELECTRICAL CONTRACTOR TO PULL WIRE IN EXISTING CONDUIT. (CIRCUIT LP8-15) TO FEED HEATERS IN GALLERY. WIRE TO CIRCUIT 21 IN LIGHTING PANELBOARD NO. 8 IN OXYGEN BUILDING.
 2. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT FROM EXISTING MCC NO. 5 COMPARTMENT 7B IN OXYGEN GENERATOR BUILDING TO CIRCULATING PUMP IN GALLERY. INSTALL A HAND-OFF-AUTO SWITCH TO CONTROL PUMP.

POWER PLAN

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

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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2 OF THE NEW YORK STATE EDUCATION LAW

No.	Date	Revisions	Init

Project Mgr. --- JCP ---
Designed by --- MEE ---
Drawn by --- DCC ---
Checked by --- TEL/MEE ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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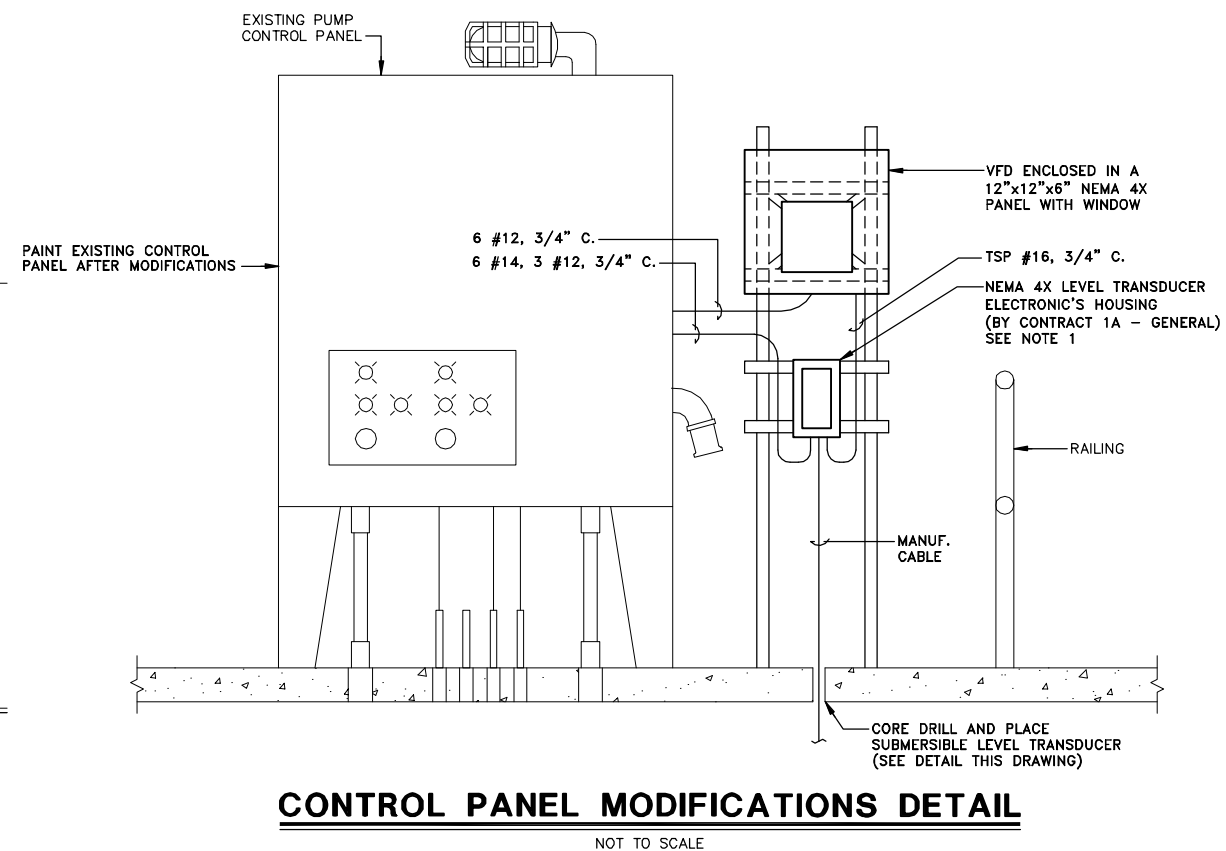
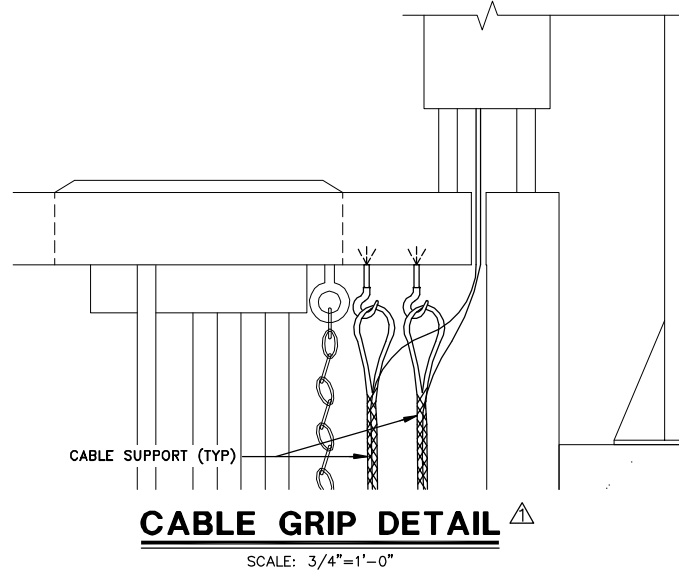
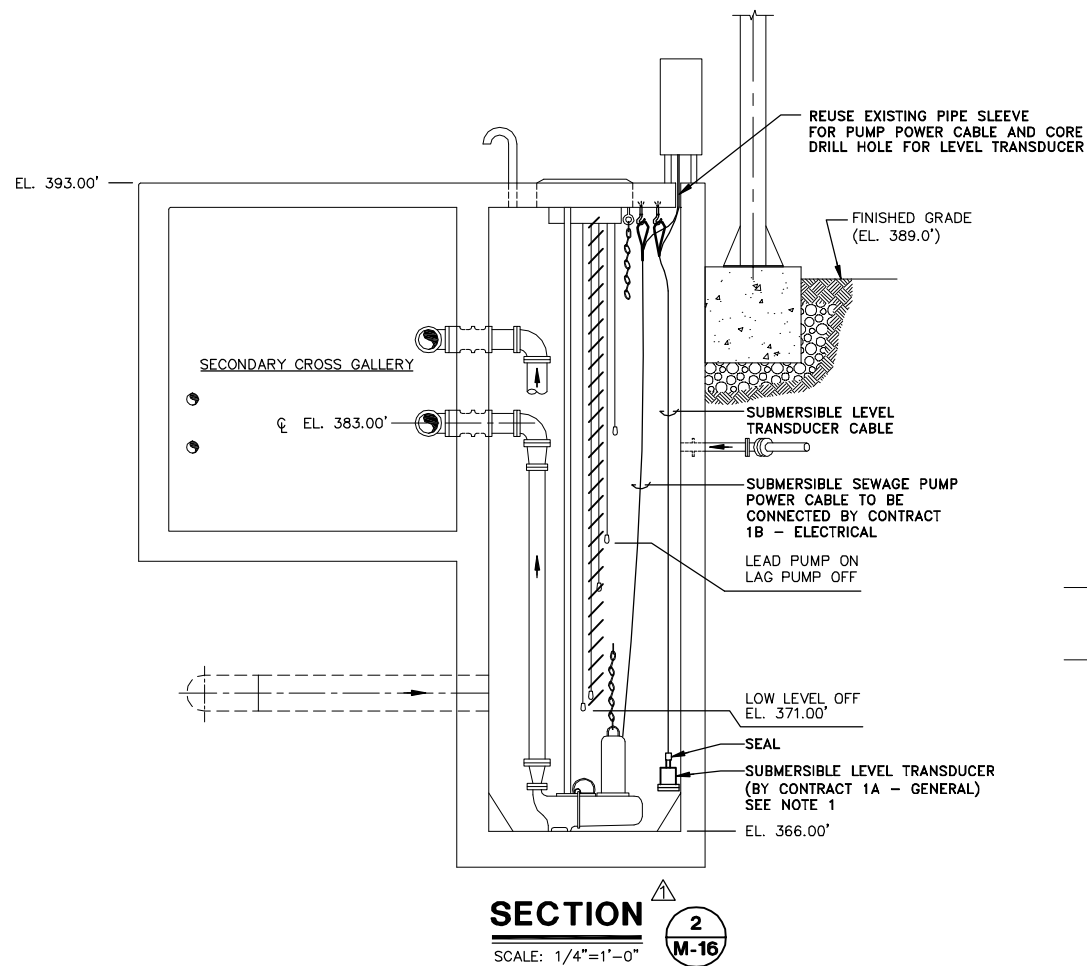
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT

**OXYGEN GENERATION BUILDING AND
GALLERY POWER PLAN**

ELECTRICAL

File Number 003.65.006	E-23
Date AUGUST 2002	
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

DATE _____ BY _____



- GENERAL NOTES:**
1. CONTRACT 1A - GENERAL SHALL PROVIDE INSTRUMENTATION AND CONTROL PANELS. CONTRACT 1B - ELECTRICAL SHALL PROVIDE WIRES, CONDUIT AND MAKE INTERCONNECTIONS. TYPICAL FOR ALL SITES.
 2. ALL WORK BY CONTRACT 1B - ELECTRICAL UNLESS OTHERWISE NOTED.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
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Graphic Scale

1/4"=1'-0" 0 4' 8'

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

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No.	Date	Revisions	Init
1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	MEE
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Checked by	TEL/MEE
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

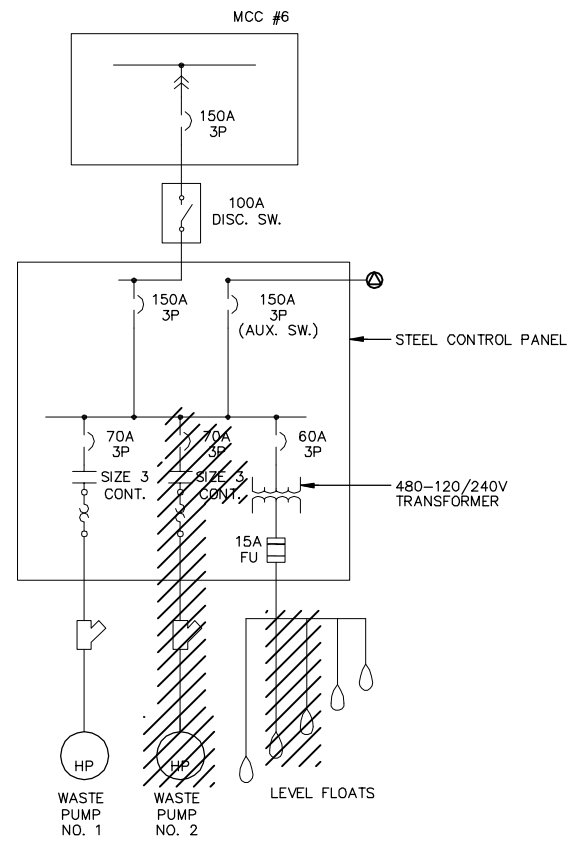
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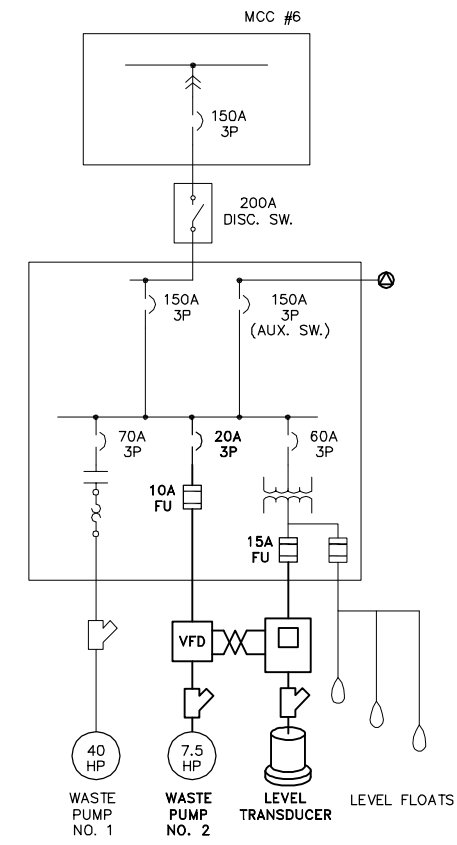
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
PLANT WASTE PUMP STATION
SECTION AND DETAILS
ELECTRICAL

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

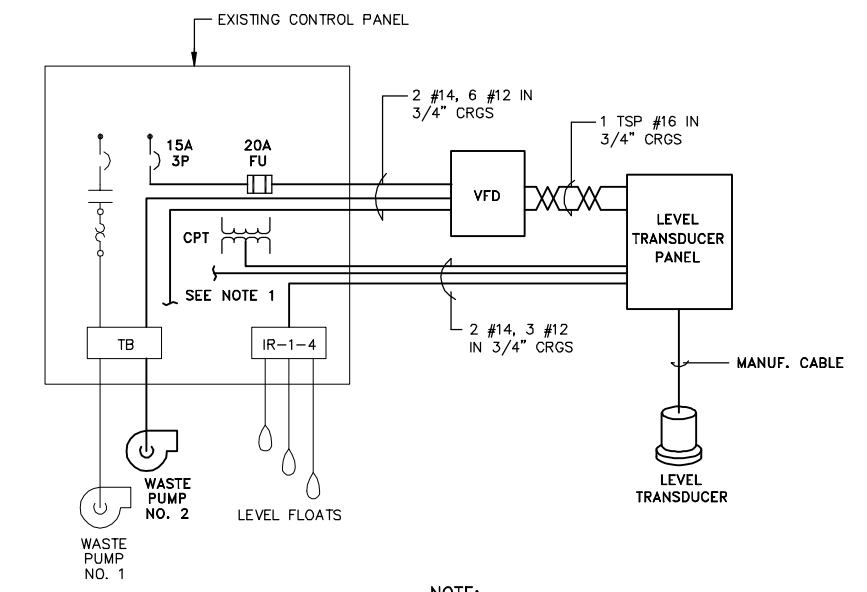
E-24



EXISTING WASTE PUMP CONTROL PANEL DEMOLITION
NOT TO SCALE



WASTE PUMP CONTROL PANEL MODIFICATIONS
NOT TO SCALE



RISER DIAGRAM
NOT TO SCALE

NOTE:
1. PARALLEL HIGH LEVEL ALARM AND VFD FAULT TO EXISTING ALARM CIRCUIT.

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Checked by --- XXX ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---



COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
PLANT WASTE PUMP STATION
ONE-LINE AND ELEMENTARY DIAGRAMS
ELECTRICAL

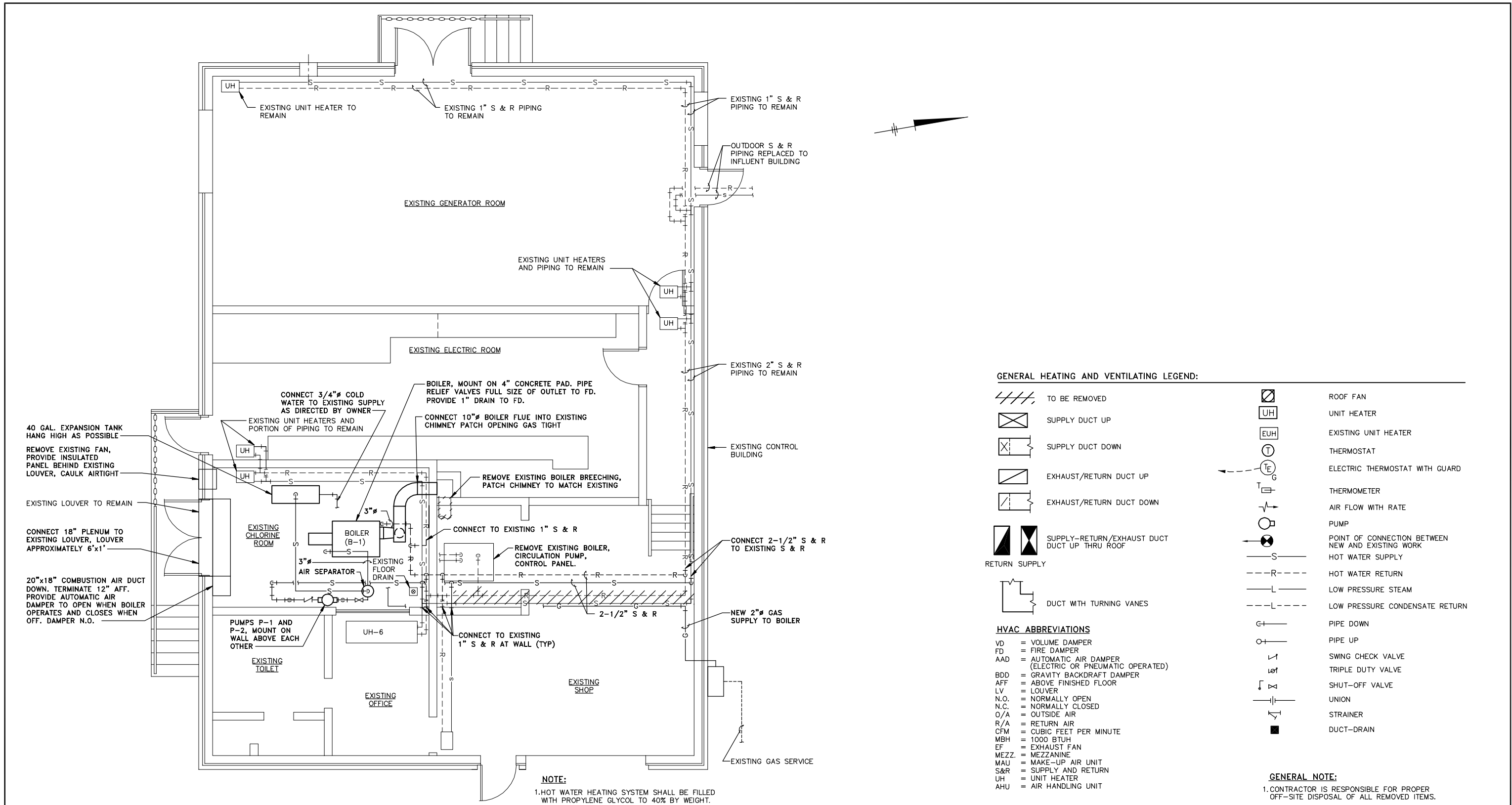
File Number
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Date
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Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

E-25

RECORD DRAWINGS
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BLASLAND, BOUCK & LEE, INC.

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DATE _____ BY _____



- GENERAL HEATING AND VENTILATING LEGEND:**
- TO BE REMOVED
 - SUPPLY DUCT UP
 - SUPPLY DUCT DOWN
 - EXHAUST/RETURN DUCT UP
 - EXHAUST/RETURN DUCT DOWN
 - SUPPLY-RETURN/EXHAUST DUCT UP THRU ROOF
 - RETURN SUPPLY
 - DUCT WITH TURNING VANES
 - ROOF FAN
 - UNIT HEATER
 - EXISTING UNIT HEATER
 - THERMOSTAT
 - ELECTRIC THERMOSTAT WITH GUARD
 - THERMOMETER
 - AIR FLOW WITH RATE
 - PUMP
 - POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
 - HOT WATER SUPPLY
 - HOT WATER RETURN
 - LOW PRESSURE STEAM
 - LOW PRESSURE CONDENSATE RETURN
 - PIPE DOWN
 - PIPE UP
 - SWING CHECK VALVE
 - TRIPLE DUTY VALVE
 - SHUT-OFF VALVE
 - UNION
 - STRAINER
 - DUCT-DRAIN
- HVAC ABBREVIATIONS**
- VD = VOLUME DAMPER
 - FD = FIRE DAMPER
 - AAD = AUTOMATIC AIR DAMPER (ELECTRIC OR PNEUMATIC OPERATED)
 - BDD = GRAVITY BACKDRAFT DAMPER
 - AFF = ABOVE FINISHED FLOOR
 - LV = LOUVER
 - N.O. = NORMALLY OPEN
 - N.C. = NORMALLY CLOSED
 - O/A = OUTSIDE AIR
 - R/A = RETURN AIR
 - CFM = CUBIC FEET PER MINUTE
 - MBH = 1000 BTUH
 - EF = EXHAUST FAN
 - MEZZ. = MEZZANINE
 - MAU = MAKE-UP AIR UNIT
 - S&R = SUPPLY AND RETURN
 - UH = UNIT HEATER
 - AHU = AIR HANDLING UNIT
- GENERAL NOTE:**
1. CONTRACTOR IS RESPONSIBLE FOR PROPER OFF-SITE DISPOSAL OF ALL REMOVED ITEMS.

HEATING AND VENTILATING PLAN

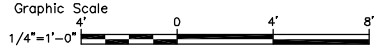
SCALE: 1/4"=1'-0"

NOTE:
1. HOT WATER HEATING SYSTEM SHALL BE FILLED WITH PROPYLENE GLYCOL TO 40% BY WEIGHT.

X: 00365X00, 00365X03.DWG
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Project Mgr. --- JCP ---
Designed by --- VAM ---
Drawn by --- GMS ---
Checked by --- WGS/WFF ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

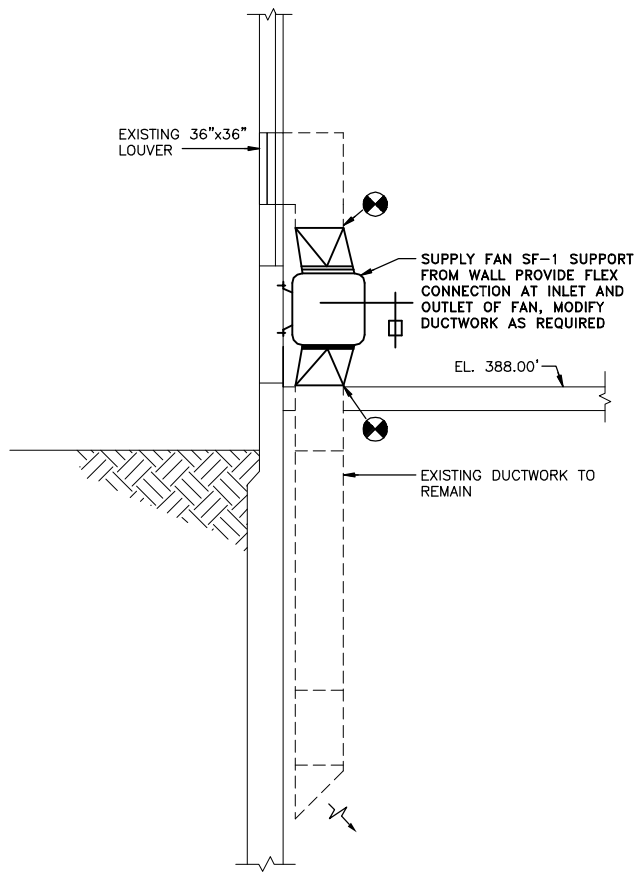
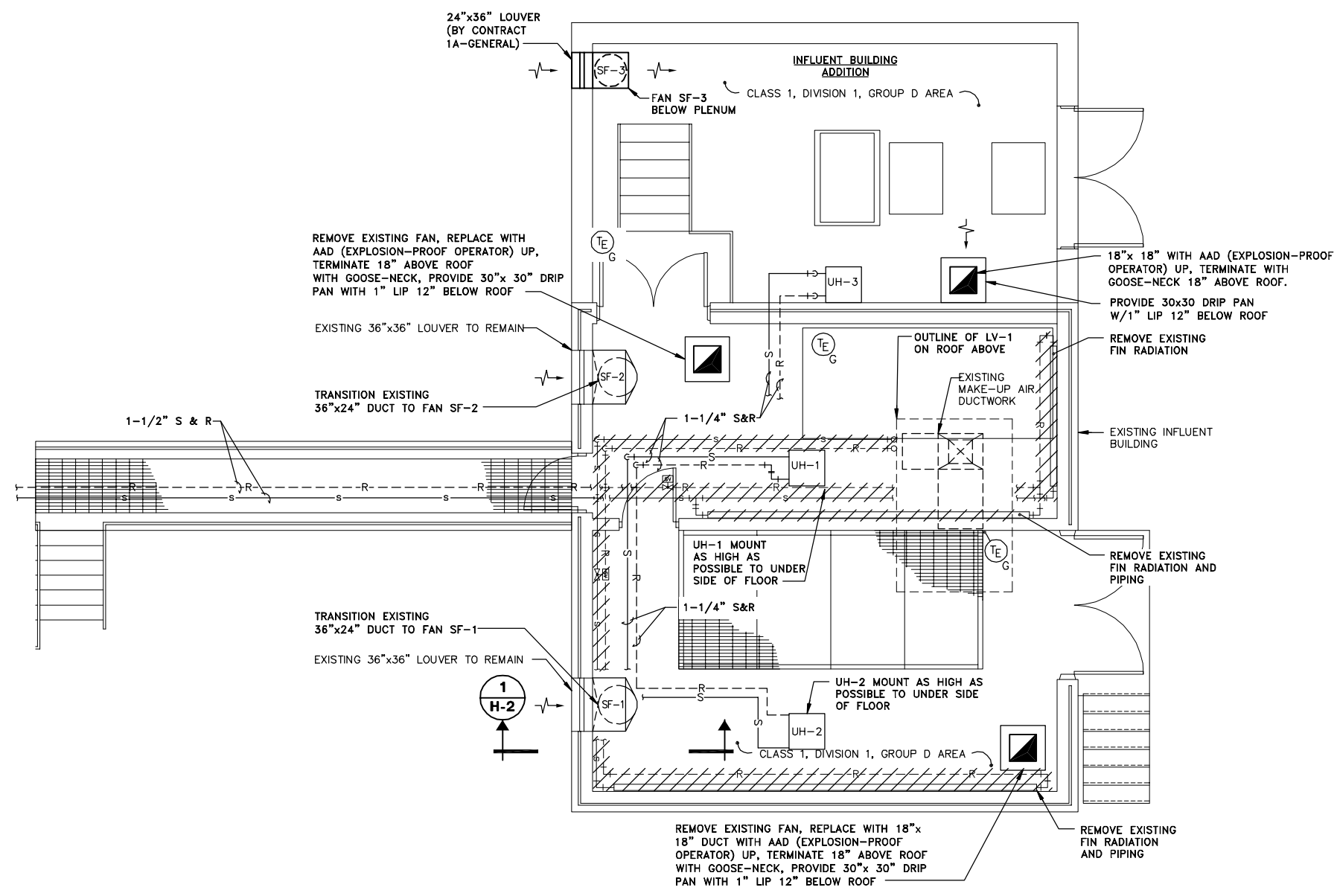
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engineers & scientists

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
CONTROL BUILDING
HEATING AND VENTILATING PLAN
HVAC

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

H-1

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SECTION 1 H-2
NOT TO SCALE

HEATING AND VENTILATING PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTE:
1. CONTRACTOR IS RESPONSIBLE FOR PROPER OFF-SITE DISPOSAL OF ALL REMOVED ITEMS.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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Graphic Scale	No.	Date	Revisions	Init
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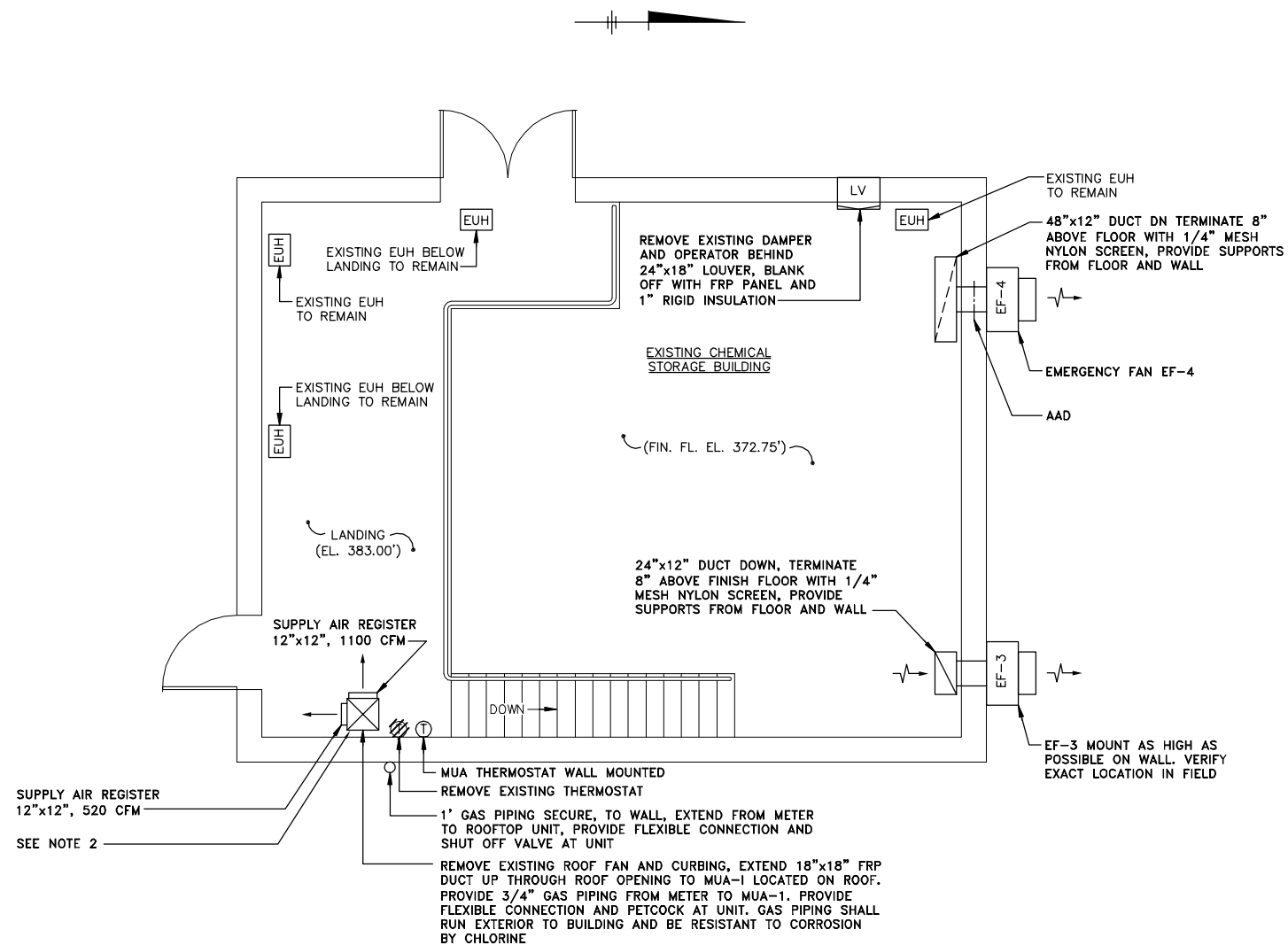
Project Mgr.	JCP
Designed by	VAM
Drawn by	GMS
Checked by	WGS/WFF
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
INFLUENT BUILDING HEATING AND VENTILATING PLAN AND SECTION
HVAC

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

H-2



HEATING AND VENTILATING PLAN

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

GENERAL NOTES:

1. ALL DUCTWORK AND ACCESSORIES (I.E. DAMPERS, LOUVERS, ETC.) SHALL BE CONSTRUCTED OF FRP IN CHEMICAL STORAGE BUILDING.
2. PROVIDE AUXILIARY AIR FLOW SWITCH FOR USE BY ELECTRICAL CONTRACTOR.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING GAS SERVICE WITH LOCAL UTILITY.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
INFORMATION AND BELIEF, THESE RECORD
DRAWINGS SUBSTANTIALLY REPRESENT
THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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Graphic Scale
1/4"=1'-0"

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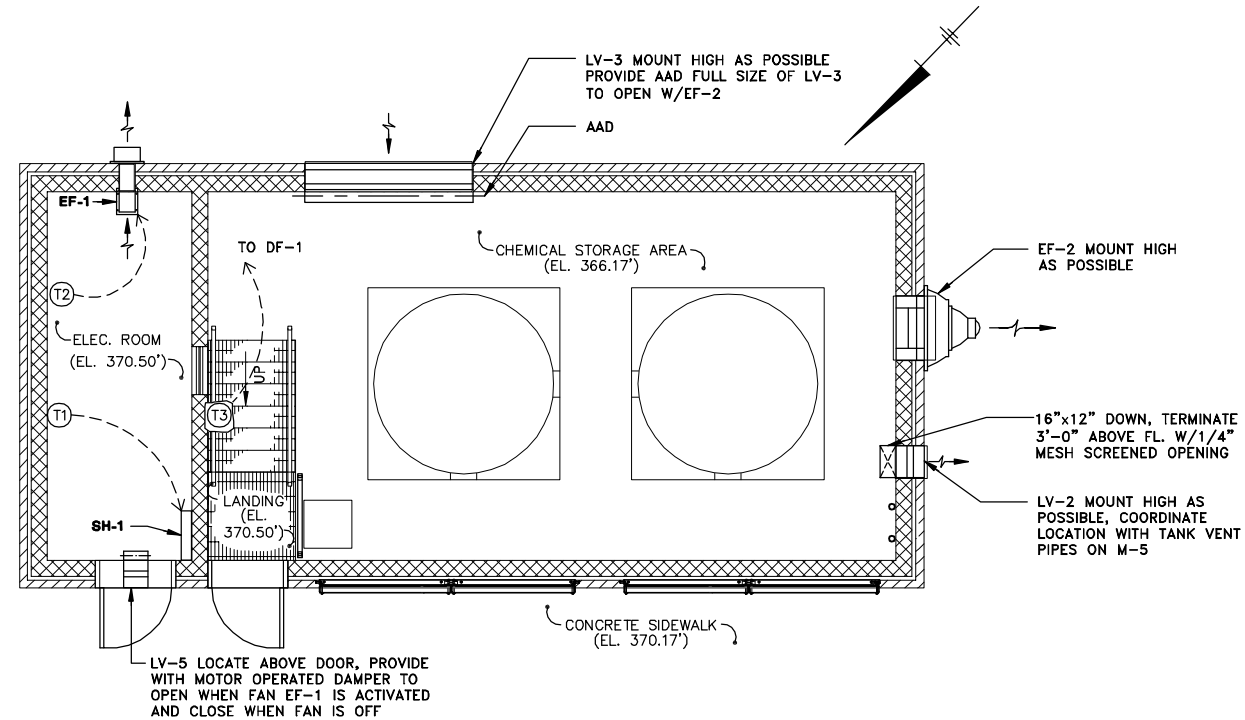
Project Mgr. --- JCP ---
Designed by --- VAM ---
Drawn by --- GMS ---
Checked by --- WGS/WFF ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
CHEMICAL STORAGE BUILDING
HEATING AND VENTILATING PLAN
HVAC

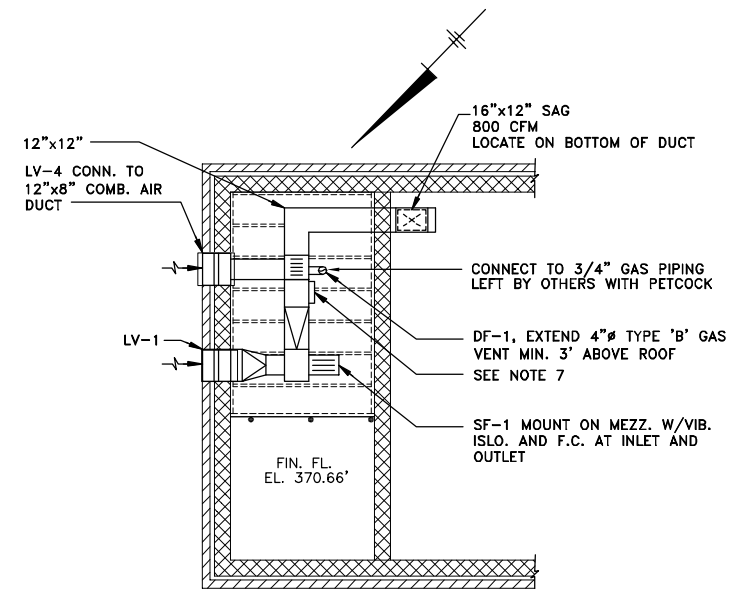
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Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

H-3



FLOOR PLAN AT EL. 370.50'

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



LOFT PLAN AT EL. 379.35'

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

NOTES:

1. MOUNT SPACE HEATERS 6" AFF.
2. MOUNT EF-1, 7'-0" AFF.
3. DUCTWORK IN CHEM. STORAGE AREA SHALL BE FRP.
4. ELEC. ROOM DUCTWORK MAY BE FIBERGLASS OR GALVANIZED.
5. ALL HANGERS, SUPPORTS AND BRACKETS SHALL BE FIBERGLASS OR PVC.
6. ALL FASTENERS SHALL BE FRP.
7. PROVIDE AIR FLOW SWITCH TO DE-ENERGIZE DF-1 WHEN SENSING NO AIR FLOW. PROVIDE AUXILIARY AIR FLOW SWITCH FOR USE BY ELECTRICAL CONTRACTOR.
8. LV-2 AND LV-3 SHALL BE FRP.

GENERAL NOTES:

1. ALL THERMOSTATS SHALL BE MOUNTED 5'-0" AFF.
2. DIMENSIONS SHOWN AS "AFF" INDICATE THE ACTUAL CLEAR DIMENSION FROM THE FINISHED FLOOR ELEVATION TO THE BOTTOM (☉ IF SHOWN) OF THE UNIT.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
4. ALL DUCTWORK SHALL BE SECURELY ANCHORED TO WALL OR FIRMLY SUPPORTED FROM THE CEILING.
5. LOUVERS SHALL BE FURNISHED AND INSTALLED BY CONTRACT 1A-GENERAL.

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No.	Date	Revisions	Init

Project Mgr. --- JCP ---
Designed by --- VAM ---
Drawn by --- RJM ---
Checked by --- WGS/WFF ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
GASKIN ROAD PUMP STATION

**CHEMICAL STORAGE BUILDING
HEATING AND VENTILATING PLANS**

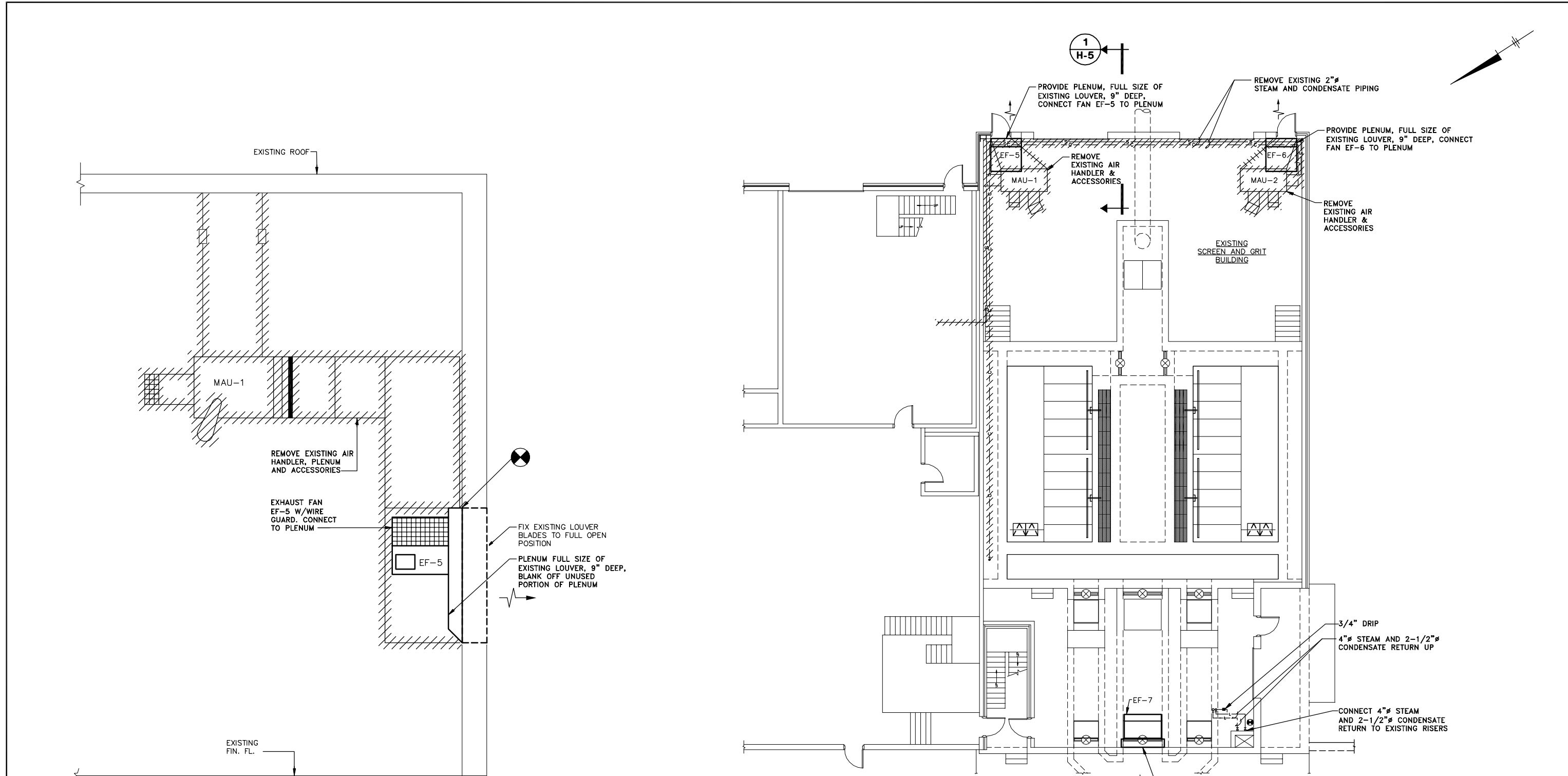
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BLASLAND, BOUCK & LEE, INC.

File Number
003.65.006
Date
AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

H-4



NOTE:
1. SIMILAR FOR PROPOSED FANS EF-5 & EF-6.

SECTION 1
H-5
NOT TO SCALE

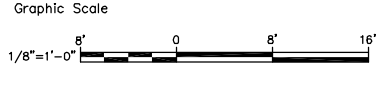
HEATING AND VENTILATING PLAN

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

GENERAL NOTE:
1. CONTRACTOR IS RESPONSIBLE FOR PROPER OFF-SITE DISPOSAL OF ALL REMOVED ITEMS.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
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Project Mgr.	JCP
Designed by	VAM
Drawn by	GMS
Checked by	WGS/WFF
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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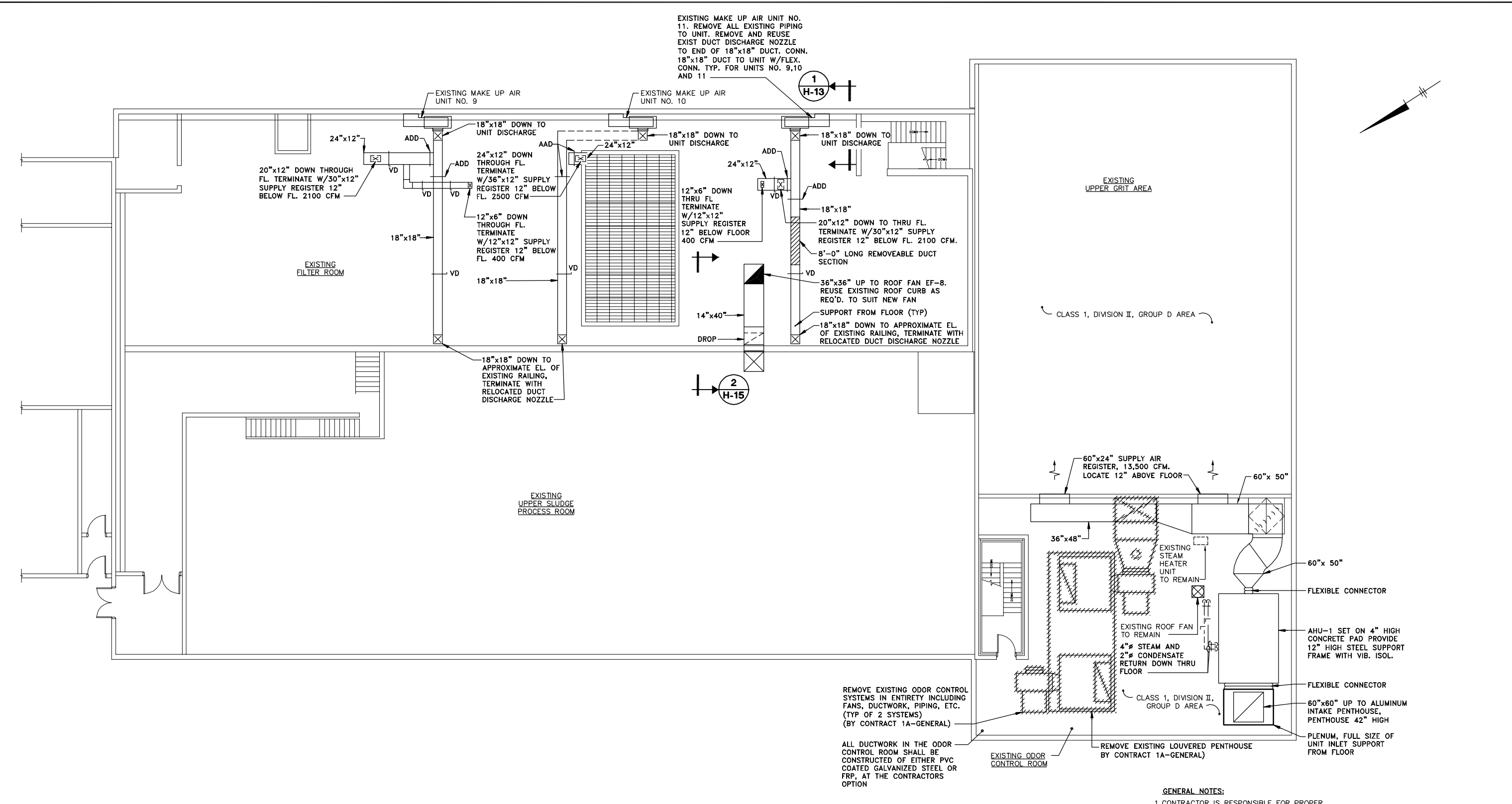
COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
SCREEN AND GRIT BUILDING FIRST FLOOR
PLAN AND SECTION
HVAC

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

H-5

(RECORD DRAWING: MADE FROM DRAWING NO. H-5, TRACER NO. 00365020/OAK/0365H05.DWG, DATED 1/99)

DATE _____ BY _____



HEATING AND VENTILATING PLAN

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

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR PROPER OFF-SITE DISPOSAL OF ALL REMOVED ITEMS.
2. CONTRACT 1B-ELECTRICAL SHALL DISCONNECT ALL EQUIPMENT TO BE REMOVED.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE,
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THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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Prof. Eng. --- DONALD GEISSER
PE License --- N.Y. 57879

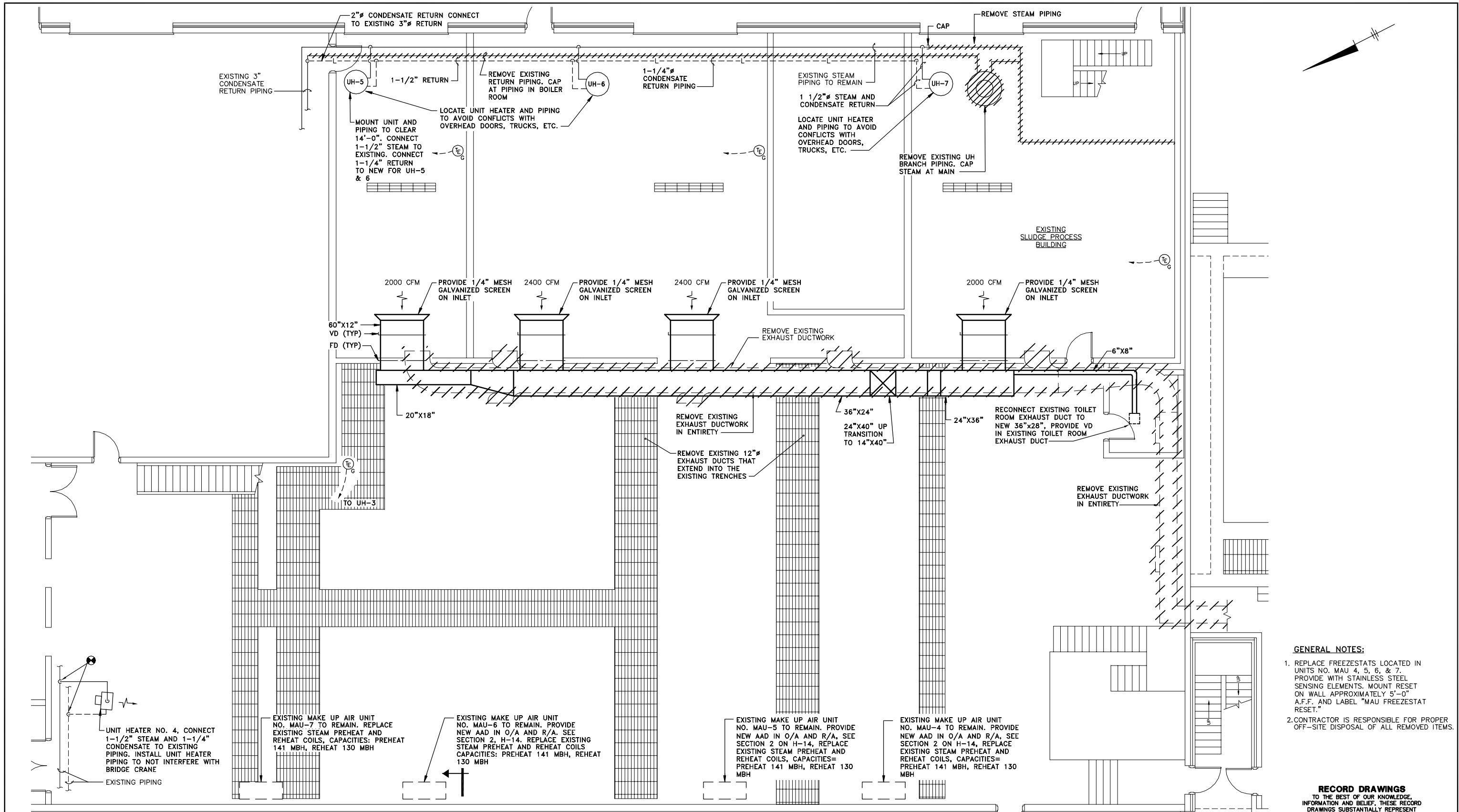
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
SCREEN AND GRIT BUILDING SECOND FLOOR
HEATING AND VENTILATING PLAN
HVAC

File Number 003.65.006	H-6
Date AUGUST 2002	
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

(RECORD DRAWING: MADE FROM DRAWING NO. H-6, TRACER NO. 00365020/OAK/0365H06.DWG, DATED 1/98)

DATE _____ BY _____



- GENERAL NOTES:**
1. REPLACE FREEZESTATS LOCATED IN UNITS NO. MAU 4, 5, 6, & 7. PROVIDE WITH STAINLESS STEEL SENSING ELEMENTS. MOUNT RESET ON WALL APPROXIMATELY 5'-0" A.F.F. AND LABEL "MAU FREEZESTAT RESET."
 2. CONTRACTOR IS RESPONSIBLE FOR PROPER OFF-SITE DISPOSAL OF ALL REMOVED ITEMS.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

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L: ON=*, OFF=*REF*
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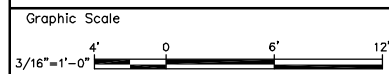
2
H-13

PLAN

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

(RECORD DRAWING: MADE FROM DRAWING NO. H-7, TRACER NO. 00365020/OAK/0365H07.DWG, DATED 1/99)

DATE _____ BY _____



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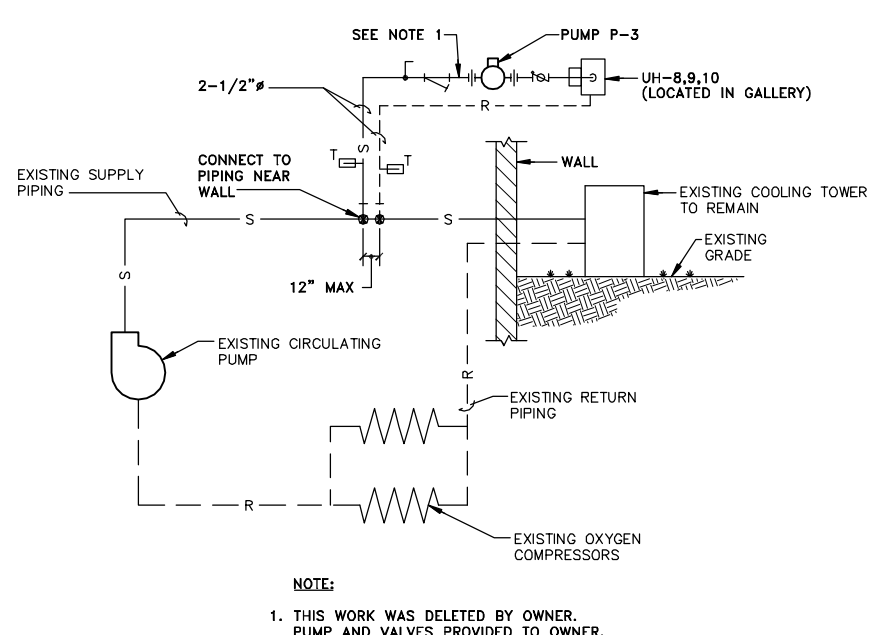
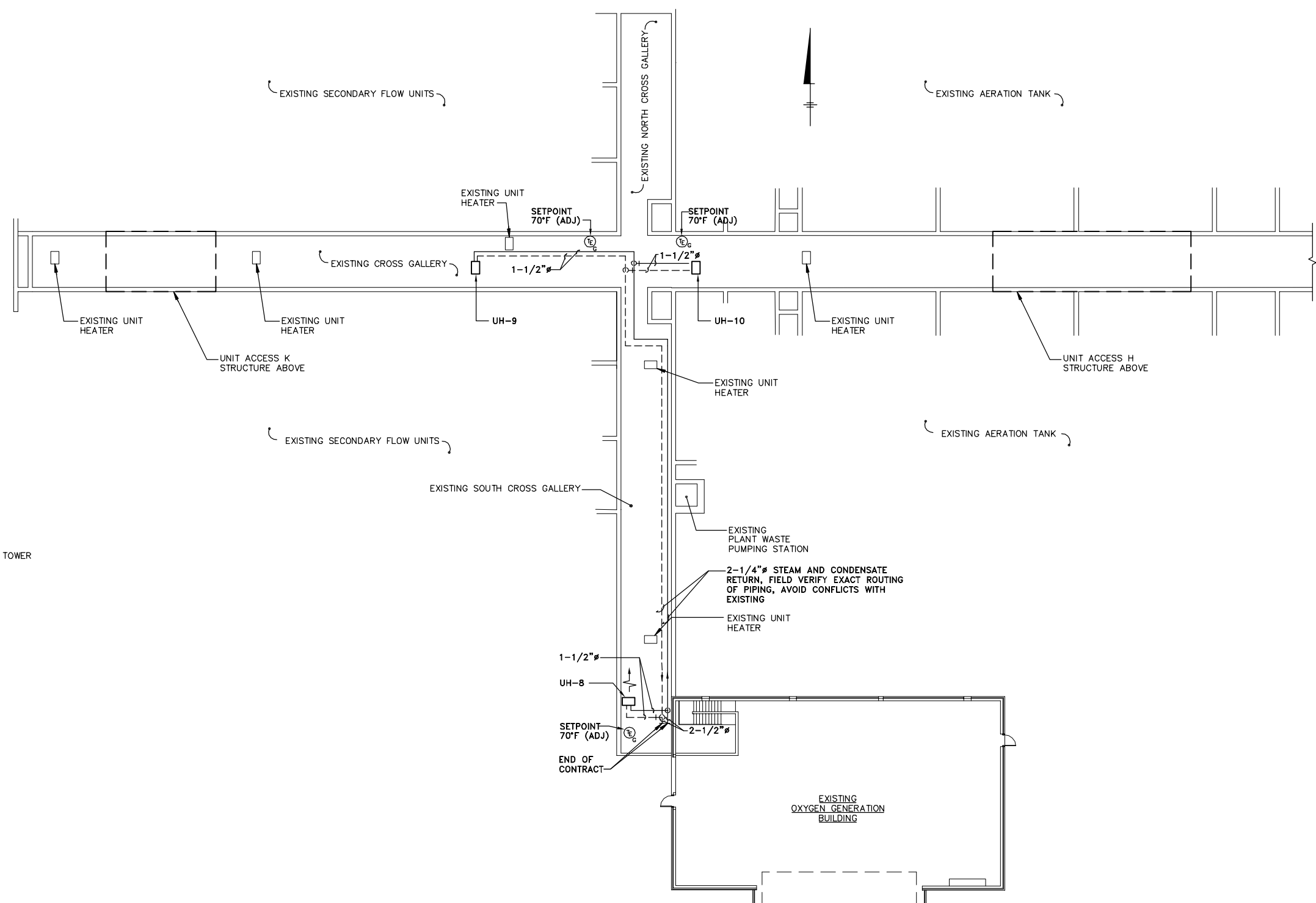
No.	Date	Revisions	Init

Project Mgr. --- JCP ---
Designed by --- VAM ---
Drawn by --- DCC ---
Checked by --- WGS/WFF ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

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BLASLAND, BOUCK & LEE, INC.
engineers & scientists

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
SLUDGE PROCESS BUILDING
HEATING AND VENTILATING PLAN
HVAC

File Number 003.65.006	H-7
Date AUGUST 2002	
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	



HEAT RECOVERY PIPING SCHEMATIC
NOT TO SCALE

HEATING AND VENTILATING PLAN

SCALE: 1/8"=1'-0"
(RECORD DRAWING: MADE FROM DRAWING NO. H-8, TRACER NO. 00365020/OAK/O365H08.DWG, DATED 1/99)

RECORD DRAWINGS
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1/8"=1'-0"				
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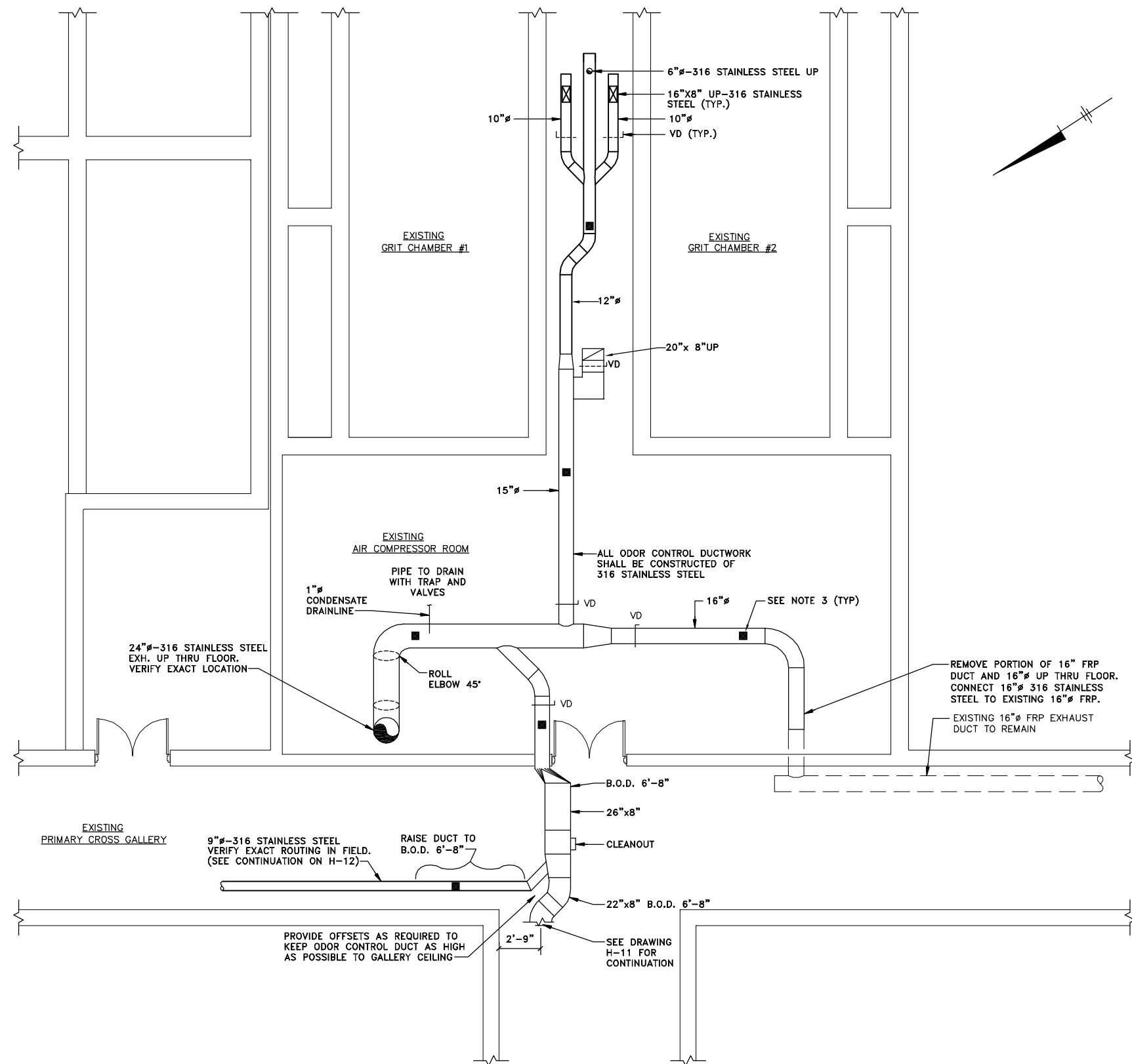
Project Mgr.	JCP
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
OXYGEN GENERATION BUILDING
HEAT RECOVERY PLAN AND SCHEMATIC
HVAC

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	

H-8



ODOR CONTROL SYSTEM PLAN

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

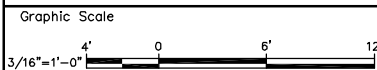
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GENERAL NOTES

1. FIELD VERIFY EXACT ROUTING OF ALL ODOR CONTROL DUCTWORK, PROVIDE OFFSETS AS REQUIRED.
2. PROVIDE 12"x 6" ACCESS DOORS EVERY 20' IN LENGTH, ALSO AT EACH CHANGE IN DUCT DIRECTION. PROVIDE REMOVABLE DUCT SECTION WHERE SIZE DOESN'T PERMIT 12"x 6" DOOR.
3. PROVIDE CAPPED 2" DRAIN PIPE CONNECTION WHERE ■ IS SHOWN.
4. PROVIDE 1/8"Ø TAPS WITH PLUGS EVERY 20' IN ODOR CONTROL SYSTEM DUCTWORK. LOCATE TAPS ON SIDES ONLY, NOT ON BOTTOM.

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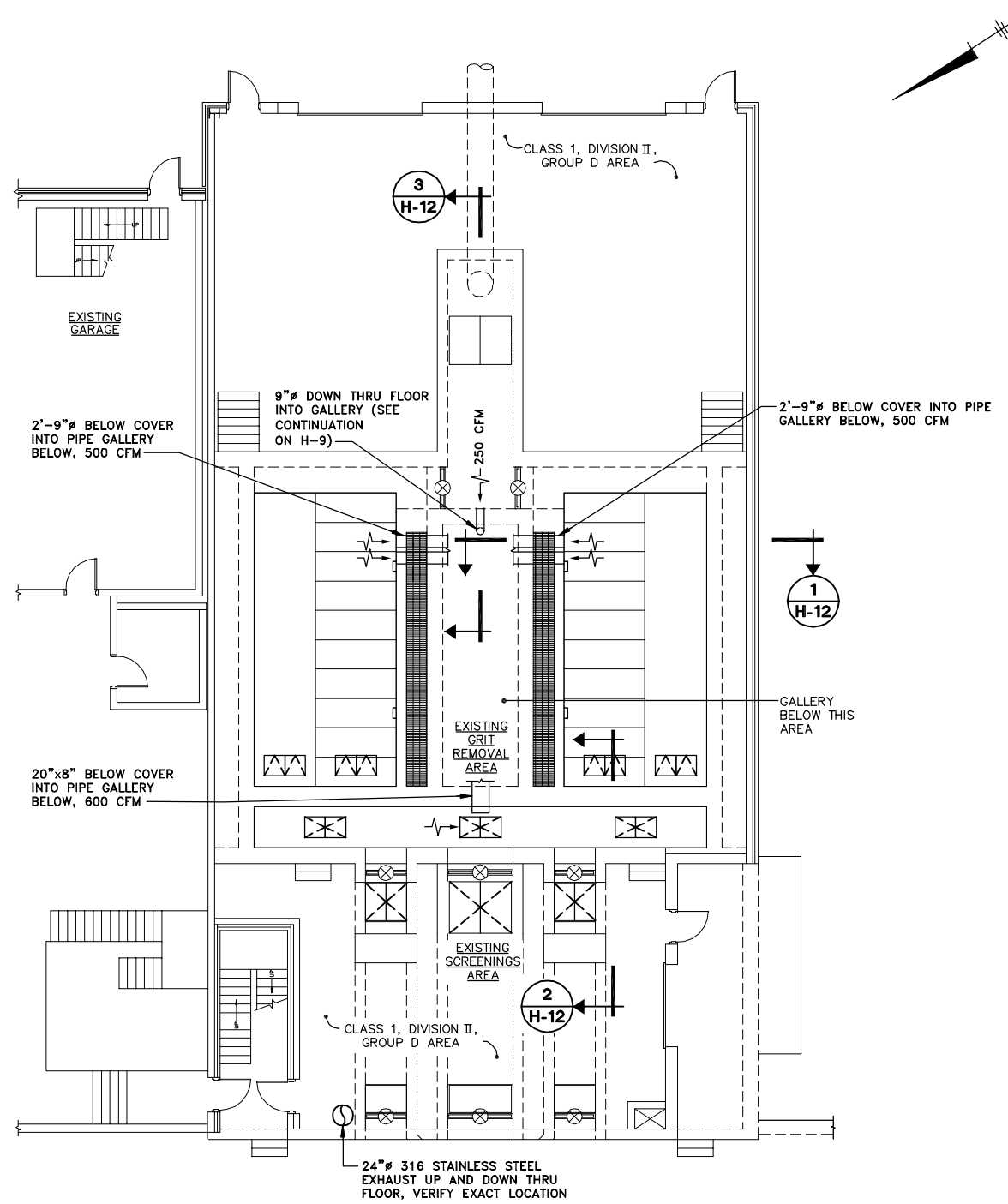
Project Mgr. --- JCP ---
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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WASTEWATER TREATMENT PLANT
AIR COMPRESSOR ROOM/PRIMARY CROSS GALLERY ODOR CONTROL SYSTEM PLAN
HVAC

File Number 003.65.006
Date AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

H-9



ODOR CONTROL SYSTEM PLAN

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

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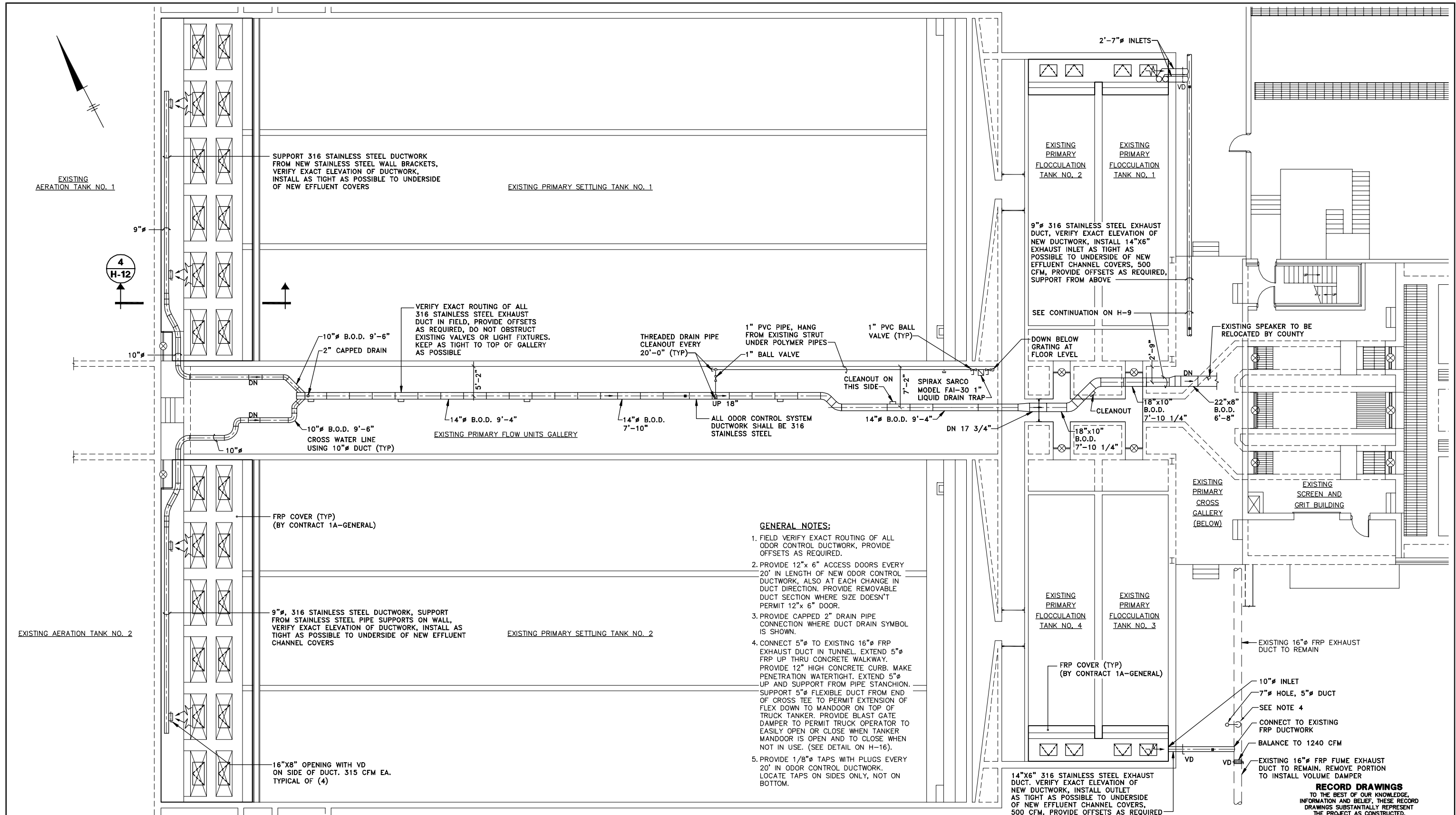
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 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 OAK ORCHARD WASTEWATER TREATMENT PLANT
SCREEN AND GRIT BUILDING FIRST FLOOR
ODOR CONTROL SYSTEM PLAN
 HVAC

File Number 003.65.006
Date AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

H-10



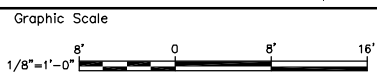
- GENERAL NOTES:**
1. FIELD VERIFY EXACT ROUTING OF ALL ODOR CONTROL DUCTWORK, PROVIDE OFFSETS AS REQUIRED.
 2. PROVIDE 12"x 6" ACCESS DOORS EVERY 20' IN LENGTH OF NEW ODOR CONTROL DUCTWORK, ALSO AT EACH CHANGE IN DUCT DIRECTION. PROVIDE REMOVABLE DUCT SECTION WHERE SIZE DOESN'T PERMIT 12"x 6" DOOR.
 3. PROVIDE CAPPED 2" DRAIN PIPE CONNECTION WHERE DUCT DRAIN SYMBOL IS SHOWN.
 4. CONNECT 5"Ø TO EXISTING 16"Ø FRP EXHAUST DUCT IN TUNNEL. EXTEND 5"Ø FRP UP THRU CONCRETE WALKWAY. PROVIDE 12" HIGH CONCRETE CURB. MAKE PENETRATION WATERTIGHT. EXTEND 5"Ø UP AND SUPPORT FROM PIPE STANCHION. SUPPORT 5"Ø FLEXIBLE DUCT FROM END OF CROSS TEE TO PERMIT EXTENSION OF FLEX DOWN TO MANDOOK ON TOP OF TRUCK TANKER. PROVIDE BLAST GATE DAMPER TO PERMIT TRUCK OPERATOR TO EASILY OPEN OR CLOSE WHEN TANKER MANDOOK IS OPEN AND TO CLOSE WHEN NOT IN USE. (SEE DETAIL ON H-16).
 5. PROVIDE 1/8"Ø TAPS WITH PLUGS EVERY 20' IN ODOR CONTROL DUCTWORK. LOCATE TAPS ON SIDES ONLY, NOT ON BOTTOM.

ODOR CONTROL SYSTEM PLAN

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

(RECORD DRAWING: MADE FROM DRAWING NO. H-11, TRACER NO. 00365020/OAK/0365H11.DWG, DATED 1/99)

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 Prof. Eng. --- DONALD GEISSER ---
 PE License --- N.Y. 57879 ---

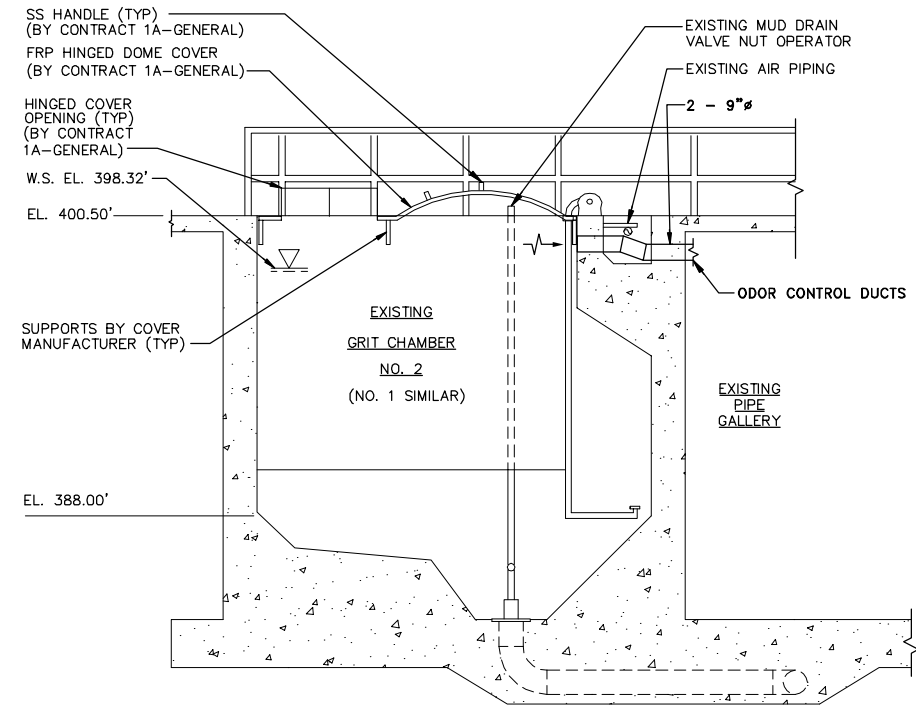
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 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 OAK ORCHARD WASTEWATER TREATMENT PLANT
PRIMARY FLOW UNITS GALLERY
ODOR CONTROL SYSTEM PLAN
 HVAC

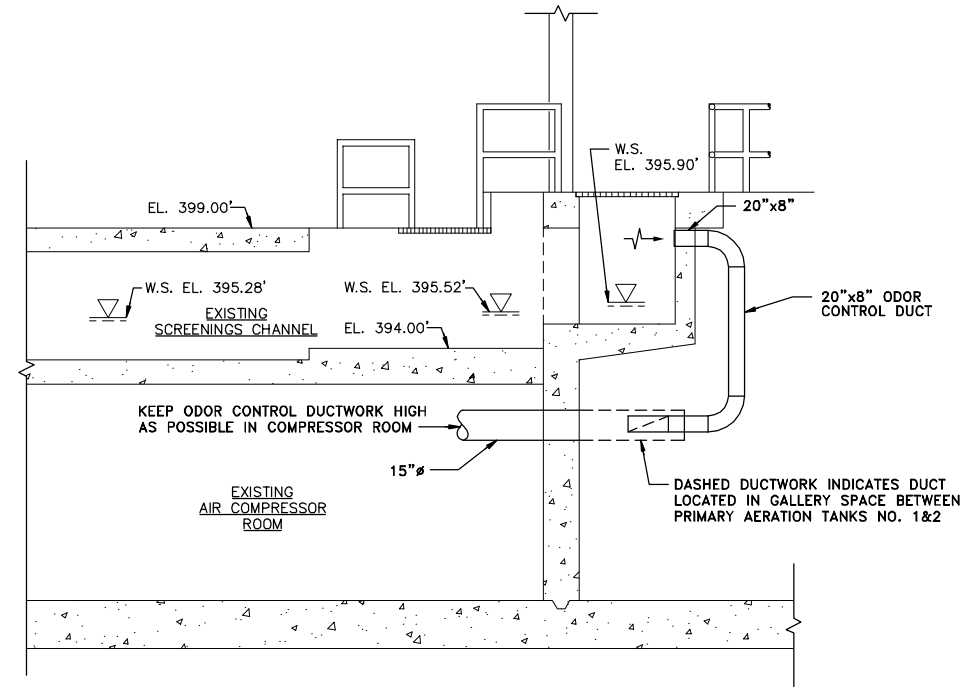
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 AUGUST 2002
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H-11

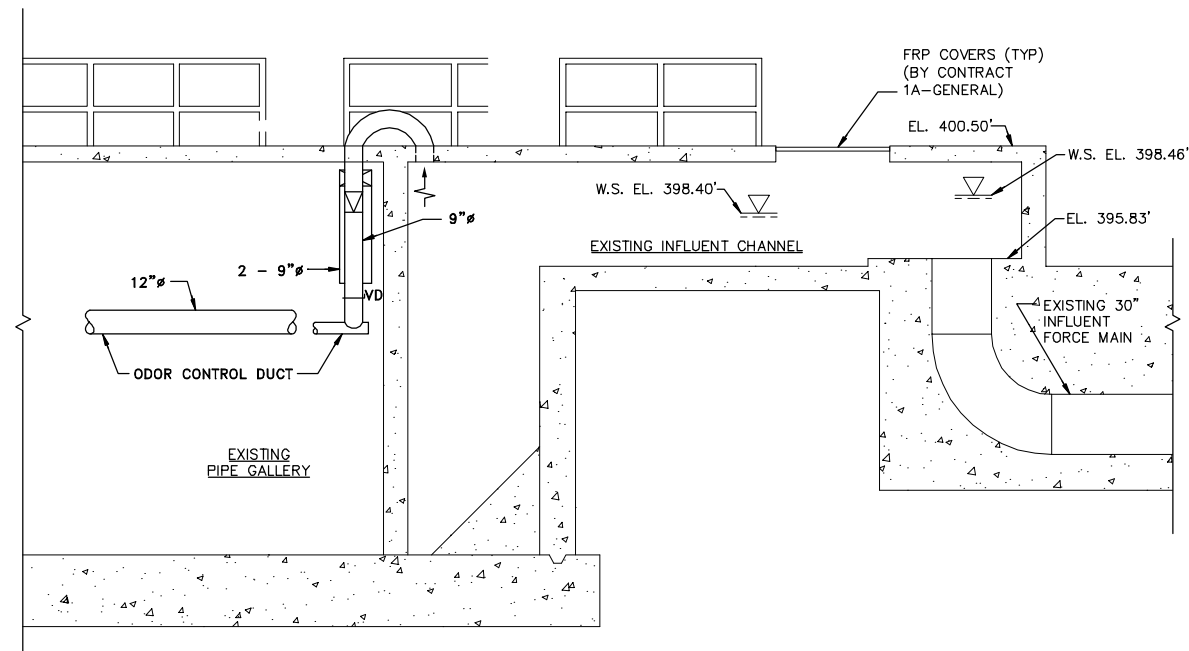
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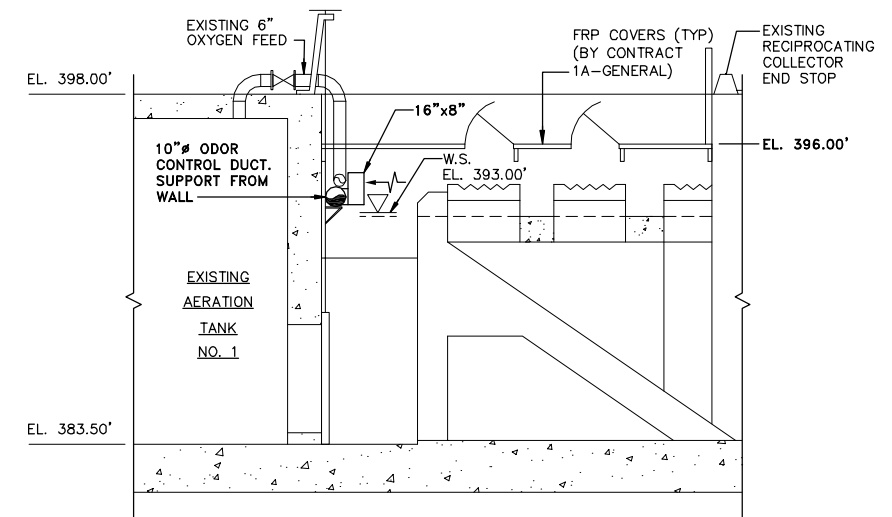
SECTION 1
SCALE: 1/4"=1'-0"
H-10



SECTION 2
SCALE: 1/4"=1'-0"
H-10

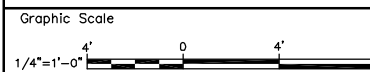


SECTION 3
SCALE: 1/4"=1'-0"
H-10



SECTION 4
SCALE: 1/4"=1'-0"
H-11

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Project Mgr.	JCP
Designed by	VAM
Drawn by	GMS
Checked by	WGS/WFF
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

**OAK ORCHARD WASTEWATER TREATMENT PLANT
ODOR CONTROL SYSTEM
SECTIONS**
HVAC

File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	H-12

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BLASLAND, BOUCK & LEE, INC.

FAN SCHEDULE								
UNIT NO.	LOCATION	CAPACITY		ELECTRICAL			RPM	COMMENTS
		CFM	SP (IN. W.C.)	HP	VOLTS	PHASE		
SF-1	MECH. ROOM	800	.5"	1/3	120	1	1165	VENT SET
EF-1	ELEC. ROOM	266	.12"	1/50	120	1	950	---
EF-2	CHEM. STOR.	7320	.5"	2	208	3	860	WALL FAN

- NOTES:**
1. PROVIDE EF-2 WITH AAD.
2. FAN EF-2 PROVIDE PVC COATING.

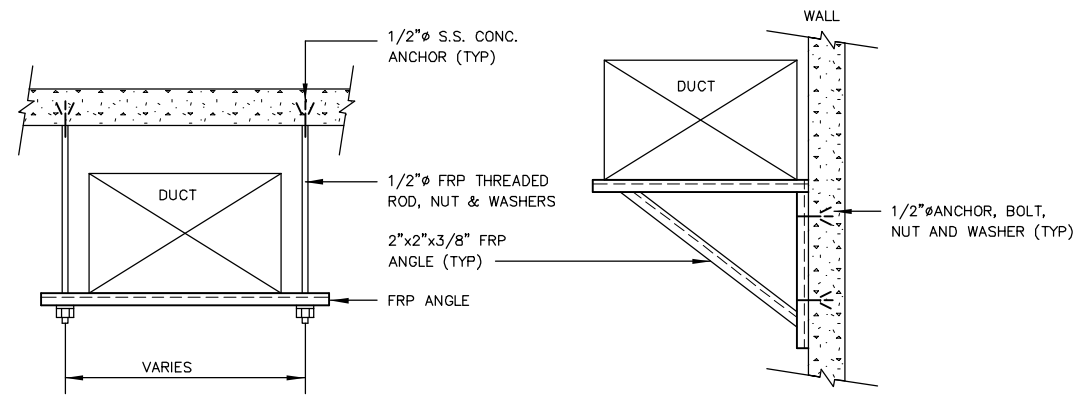
LOUVER SCHEDULE						
UNIT NO.	SIZE W x H	SERVICE	CAPACITY			MOUNTING HEIGHT (AFF)
			AIR FLOW (CFM)	FREE AREA (Sq. Ft. MIN.)	FREE AREA VEL (FPM MAX.)	
LV-1	2'x2'	INTAKE	800	1.6	500	---
LV-2	2'x2'	EXHAUST	800	1.6	500	---
LV-3	7'x4'	INTAKE	7320	11.2	650	---
LV-4	1'x1'-6"	INTAKE	---	0.6	---	---
LV-5	1'x1'	INTAKE	266	0.5	550	ABOVE DOOR

- NOTES:**
1. LOUVERS SHALL BE FURNISHED AND INSTALLED BY CONTRACT 1A-GENERAL.
2. LOUVERS SHALL BE CONSTRUCTED OF FRP.

THERMOSTAT SCHEDULE					
UNIT NO.	LOCATION	SERVICE	SET POINT	RANGE	UNITS CONTROLLED
T1	ELEC. ROOM	HEATING	65° F	35-100° F	SH-1
T2	ELEC. ROOM	COOLING	70° F	35-100° F	EF-1

HEATER SCHEDULE					
UNIT NO.	CAPACITY	AIR FLOW (CFM)	VOLTS	PHASE	CONTROL VOLTS
SH-1	3.0 KW	N/A	240	1	---

DUCT FURNACE SCHEDULE				
UNIT NO.	CFM	BTUH INPUT	BTUH OUTPUT	MIN. GAS PRESSURE
DF-1	800	75,000	60,000	---



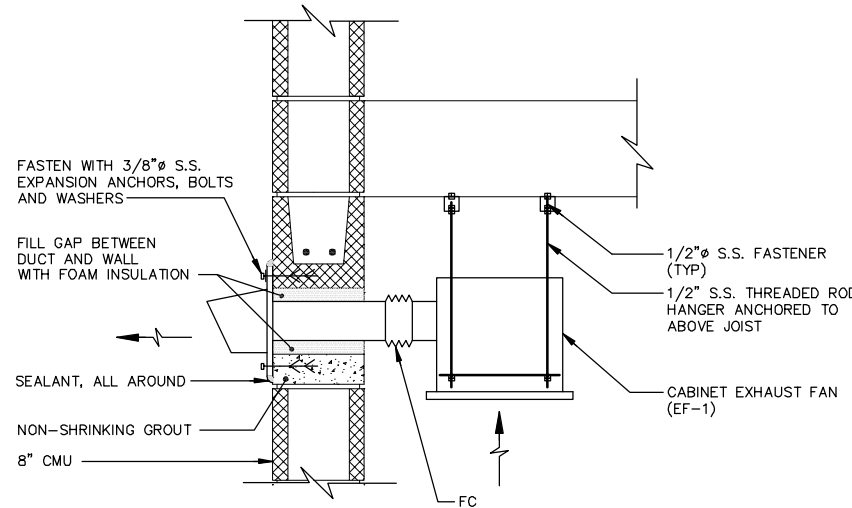
TYPE "A"

TYPE "B"

- NOTES:**
1. FASTEN DUCTS TO SUPPORTS WITH FRP STRAPS OR CLIP ANGLES & FRP FASTENERS.
2. FOR ROUND DUCTS, PROVIDE ROLLED SADDLE, OR USE CLEVIS OR SPLIT RING TYPE HANGERS.

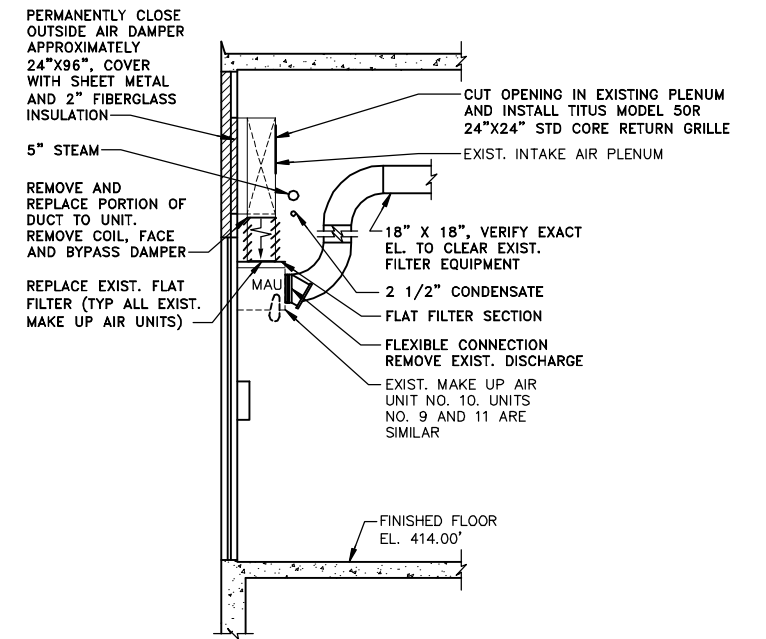
DUCT SUPPORT DETAIL

NOT TO SCALE



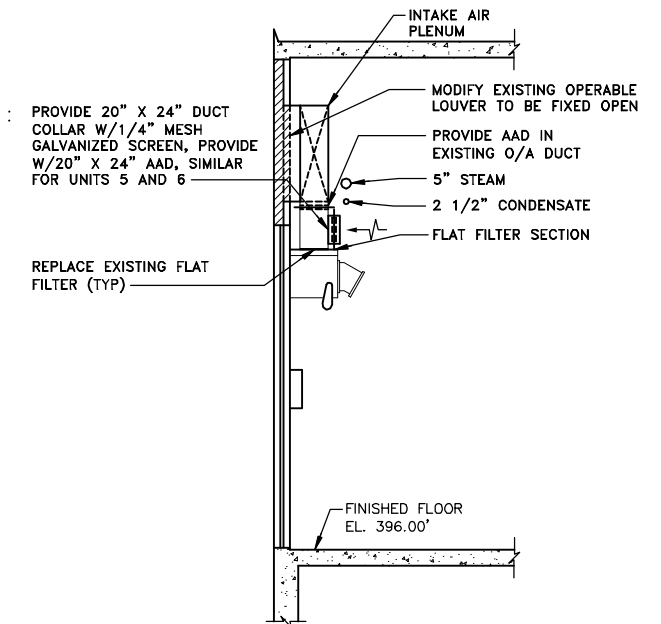
EXHAUST FAN EF-1 DETAIL

NOT TO SCALE



SECTION 1
H-6

NOT TO SCALE



SECTION 2
H-7

NOT TO SCALE

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Prof. Eng. --- DONALD GEISSER ---
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
GASKIN ROAD PUMP STATION
GASKIN ROAD PUMP STATION
SCHEDULES, DETAILS AND SECTIONS
HVC

File Number 003.65.006
Date AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

H-13

AIR HANDLING UNIT SCHEDULE														
UNIT NO.	AIR FLOW (CFM)	EXTERNAL STAT. PRESSURE (IN. W.C.)	STEAM COIL DATA						ELECTRICAL			FAN RPM	DESIGN MAKE	NOTES
			ENTERING DRY BULB	LEAVING DRY BULB	MIN. STEAM PSIG	CONDENSATE LBS./HR.	FACE VELOCITY	AIR SIDE ΔP (IN. W.C.)	HP	VOLTS	PHASE			
AHU-1	28000	0.75"	0°F	60°F	2	1,680	600 FPM	0.15	15	460	3	1034	TRANE SIZE 41	

NOTES:

- UNIT SHALL BE EXPLOSION PROOF CONSTRUCTION, SUITABLE FOR CLASS 1, DIV 1 ENVIRONMENT.
- ENTIRE UNIT SHALL BE EPOXY COATED, EXTERNALLY AND INTERNALLY, INCLUDING COILS.
- FREESTAT SHALL BE STAINLESS STEEL TYPE.
- ALL CONTROL DEVICES, RESETS, ETC. SHALL BE LOCATED IN AN EXPLOSION PROOF PANEL.
- UNIT SHALL BE HORIZONTAL ARRANGEMENT, PROVIDE WITH COIL BYPASS DAMPERS, ANGLE FILTER SECS. WITH 30% FILTERS, 2" DEEP.

FAN SCHEDULE											
FAN NO.	TYPE	LOCATION	CFM	SP (IN. W.C.)	FAN RPM	ELECTRICAL			ACCESSORIES	DESIGN MAKE	NOTES
						MOTOR RPM	HP	VOLTS/PHASE			
SF-1	IN LINE	DAVIS RD	1800	0.75"	2383	1750	1	480/3φ		COOK MODEL 12CVB	1,5
SF-2	IN LINE	DAVIS RD	1260	0.75"	1865	1750	3/4	480/3φ		COOK MODEL 12CVB	1,5
SF-3	IN LINE	DAVIS RD	1260	0.75"	1865	1750	3/4	480/3φ		COOK MODEL 12CVB	1,5
EF-1			NOT USED								
EF-2			NOT USED								
EF-3	WALL	DAVIS RD	1620	0.5"	1032	1750	1/3	120/1φ		COOK MODEL 150ACW-B	2
EF-4	WALL	DAVIS RD	8000	0.5"	400	1750	1 1/2	208/3φ	AUTO AIR DAMPER	COOK MODEL 365ACW-B	2
EF-5	WALL	OAK ORCHARD	10500	0.5"	1150	1750	2	480/3φ	ALUMIN. WIRE GUARD	COOK MODEL 30XMW	1,3
EF-6	WALL	OAK ORCHARD	10500	0.5"	1150	1750	2	480/3φ	ALUMIN. WIRE GUARD	COOK MODEL 30XMW	1,3
EF-7	WALL	OAK ORCHARD	10500	0.5"	1150	1750	2	480/3φ	ALUMIN. WIRE GUARD	COOK MODEL 30XMW	1,3
EF-8	ROOF	OAK ORCHARD	10500	0.5"	700	1750	5	480/3φ	AUTO AIR DAMPER	COOK MODEL 300C10B	

NOTES:

- EXPLOSION PROOF CLASS 1, DIV 1 CONSTRUCTION.
- EPOXY COATED.
- FAN AND ACCESSORIES SHALL BE ALUMINUM GLASS COATED.
- PROVIDE 12"H INSULATED ROOF CURBS FOR ALL ROOF FANS.
- PROVIDE EPOXY COATING FOR THE FAN AND ALL ACCESSORIES, I.E. WALL BRACKETS, ECT.
- PROVIDE FAN WITH PVC COATING.

MAKE UP AIR UNIT SCHEDULE						
UNIT NO.	GAS OUTPUT	CFM	MOTOR HP	VOLTS	PHASE	DESIGN/MAKE
MUA-1	158,000 BTUH	1600	1/3	120	1	STERLING

NOTE:

- PROVIDE WITH 12" H. ROOF CURB.

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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
OAK ORCHARD WWTP AND DAVIS ROAD PUMP STATION

SCHEDULES

HVAC

File Number 003.65.006
Date AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

H-14

UNIT HEATER SCHEDULE										
UNIT NO.	LOCATION	TYPE	MBH	EWT		CFM	GPM	HP	VOLTS/PHASE	DESIGN MAKE
				STEAM PSI	LWT					
UH-1	DAVIS RD	VERT.	150	180°	160°	4162	15	1/4	120/1φ	TRANE 252-P
UH-2	DAVIS RD	VERT.	115	180°	160°	3200	12	1/4	120/1φ	TRANE 202-P
UH-3	DAVIS RD	VERT.	115	180°	160°	3200	12	1/4	120/1φ	TRANE 202-P
UH-4	OAK ORCHARD	HORIZ.	125	2 PSI	-	2440	-	1/6	120/1φ	TRANE 127-S
UH-5	OAK ORCHARD	VERT.	124	2 PSI	-	1790	-	1/6	120/1φ	TRANE 122-P
UH-6	OAK ORCHARD	VERT.	124	2 PSI	-	1790	-	1/6	120/1φ	TRANE 122-P
UH-7	OAK ORCHARD	VERT.	124	2 PSI	-	1790	-	1/6	120/1φ	TRANE 122-P
UH-8	OAK ORCHARD OXYGEN BLD.	HORIZ.	50	95°	89°	3300	16.5	1/4	120/1φ	TRANE 230-S
UH-9	OAK ORCHARD OXYGEN BLD.	HORIZ.	50	95°	89°	3300	16.5	1/4	120/1φ	TRANE 230-S
UH-10	OAK ORCHARD OXYGEN BLD.	HORIZ.	50	95°	89°	3300	16.5	1/4	120/1φ	TRANE 230-S

NOTES:

- UNIT NO. 1, 2, AND 3 SHALL BE EXPLOSION PROOF CONSTRUCTION CLASS 1, DIV 1 AND EPOXY COATED.
- UNIT UH-1, 2 AND 3 ARE 25% GLYCOL MIXTURE.

PUMP SCHEDULE										
PUMP NO.	FLUID	GPM	HEAD	ELECTRICAL			MAXIMUM WORKING PRESSURE	TYPE	DESIGN MAKE	NOTES
				HP	VOLTAGE	PHASE				
P-1	25% GLYCOL	70	50'	3	480	3	175 PSI	IN LINE	B&G SERIES 60 2 1/2"F	1
P-2	25% GLYCOL	70	50'	3	480	3	175 PSI	IN LINE	B&G SERIES 60 2 1/2"F	1,2
P-3	WATER	50	20'	1	480	3	175 PSI	IN LINE	B&G SERIES 60 2"AA	1

NOTES:

- SUPPORT PUMPS INDEPENDENTLY FROM PIPING.
- PUMP P-2 IS STAND-BY.
- PUMP P-3 NOT INSTALLED, PROVIDED TO OWNER.

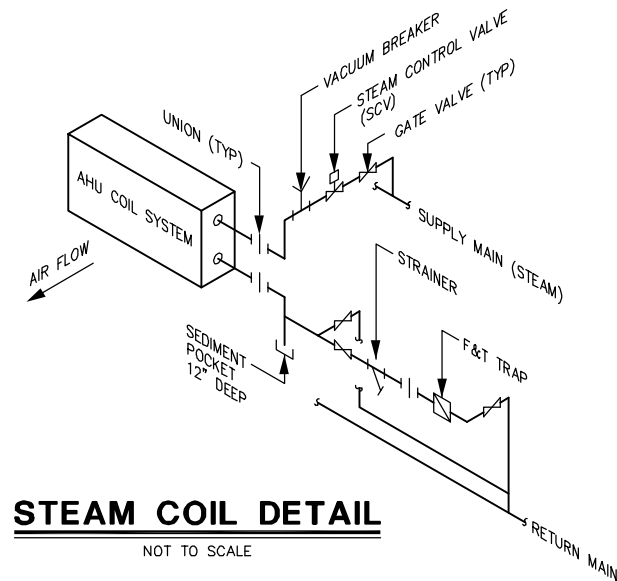
BOILER SCHEDULE (HOT WATER)								
BOILER NO.	FUEL	INPUT	NET 1BR OUTPUT	TESTED PRESSURE	HP, VOLTS PHASE	GAS PRESSURE AT GAS TRAIN	DESIGN MAKE	NOTES
B-1	NAT GAS	835 MBH	670 MBH	60 PSI	1 HP 480V-3φ	7"W.C.	CLEAVER MODEL BROOKS CB20	

NOTES:

- PROVIDE WITH IRI GAS TRAIN. PIPE GAS VENTS TO EXTERIOR OF BLDG.
- INSTALL BOILER PER NYCRR-4.
- PIPE DRAIN PIPING AND RELIEF VALVE PIPING TO FLOOR DRAIN.
- INSTALL BOILER ON 4"THK CONC. PAD.

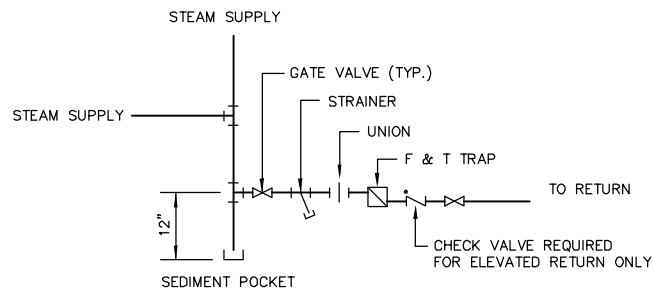
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THE PROJECT AS CONSTRUCTED.
BLASLAND, BOUCK & LEE, INC.

DATE _____ BY _____



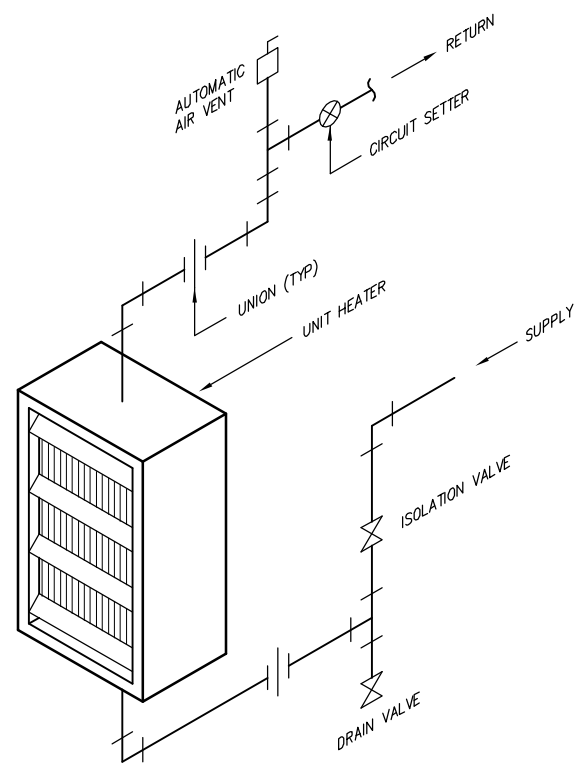
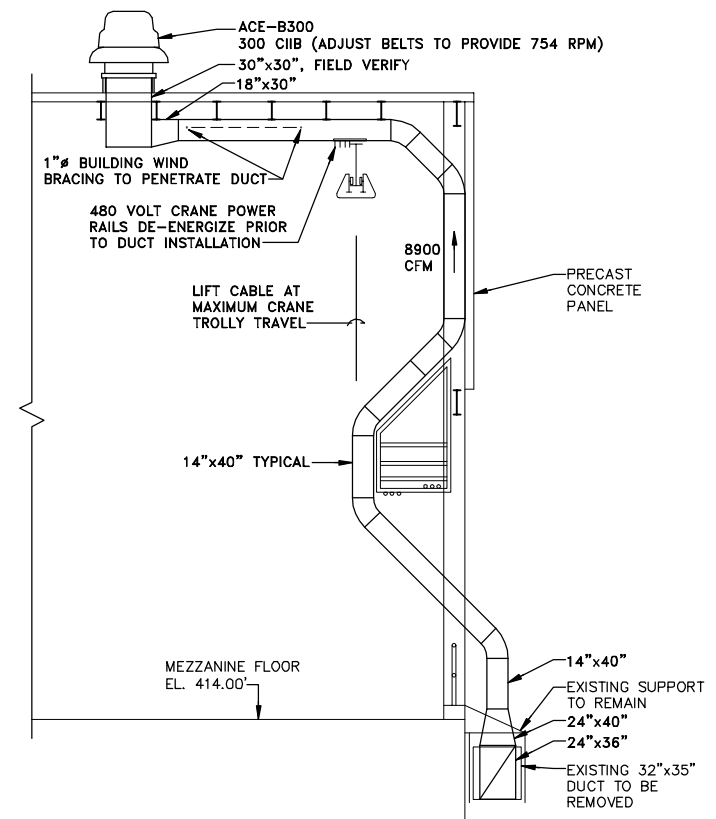
STEAM COIL DETAIL

NOT TO SCALE



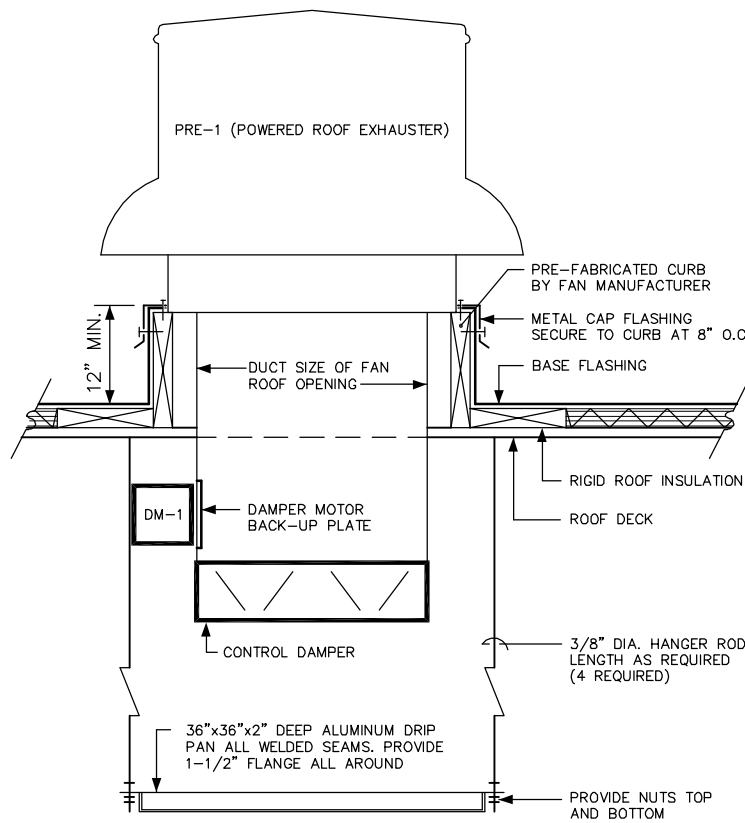
DRIPPED STEAM RISER DETAIL

NOT TO SCALE



UNIT HEATER PIPING DETAIL

NOT TO SCALE



POWER ROOF EXHAUSTER DETAIL

NOT TO SCALE

X: 00365X00, 00365X05.DWG
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DATE _____ BY _____

No.	Date	Revisions	Init

Project Mgr. --- JCP ---
 Designed by --- VAM ---
 Drawn by --- DCC ---
 Checked by --- WGS/WFF ---
 Prof. Eng. --- DONALD GEISSER ---
 PE License --- N.Y. 57879 ---

BBL
 BLASLAND, BOUCK & LEE, INC.
 engineers & scientists

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
 OAK ORCHARD WASTEWATER TREATMENT PLANT

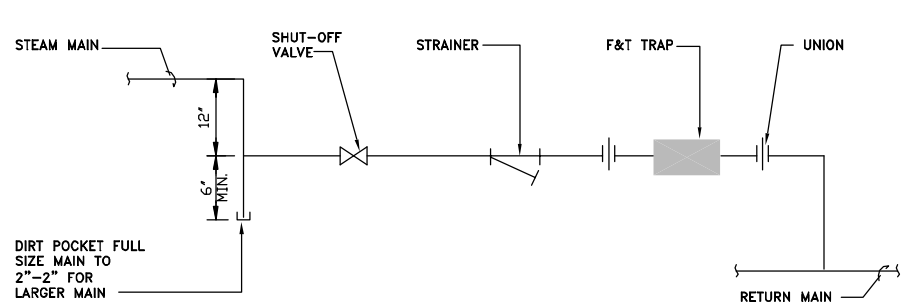
File Number
 003.65.006
 Date
 AUGUST 2002
 Blasland, Bouck & Lee, Inc.
 Corporate Headquarters
 6723 Towpath Road
 Syracuse, NY 13214
 315-446-9120

H-15

DETAILS

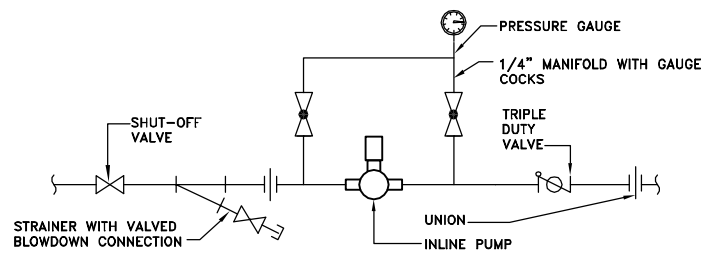
HVAC

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LOW PRESSURE STEAM TRAP ASSEMBLY DETAIL

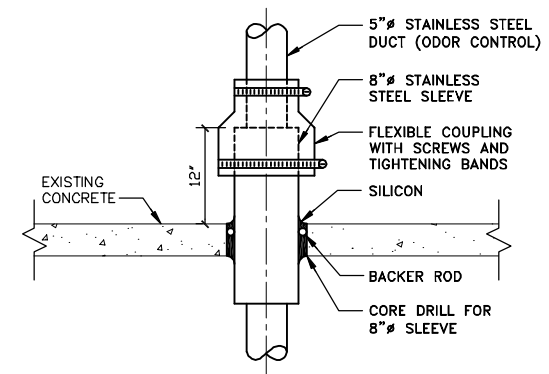
NOT TO SCALE



INLINE PUMP DETAIL

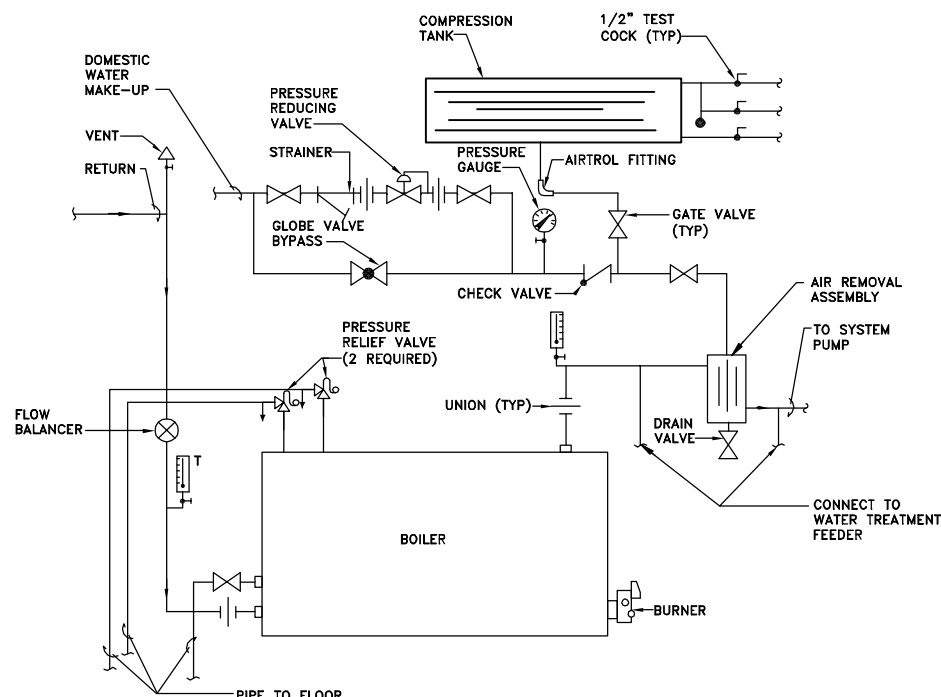
NOT TO SCALE

NOTE:
1. PROVIDE CHECK VALVE AND FLOW BALANCER IN PLACE OF TRIPLE DUTY VALVE WHERE PIPE IS LESS THAN 2"Ø.



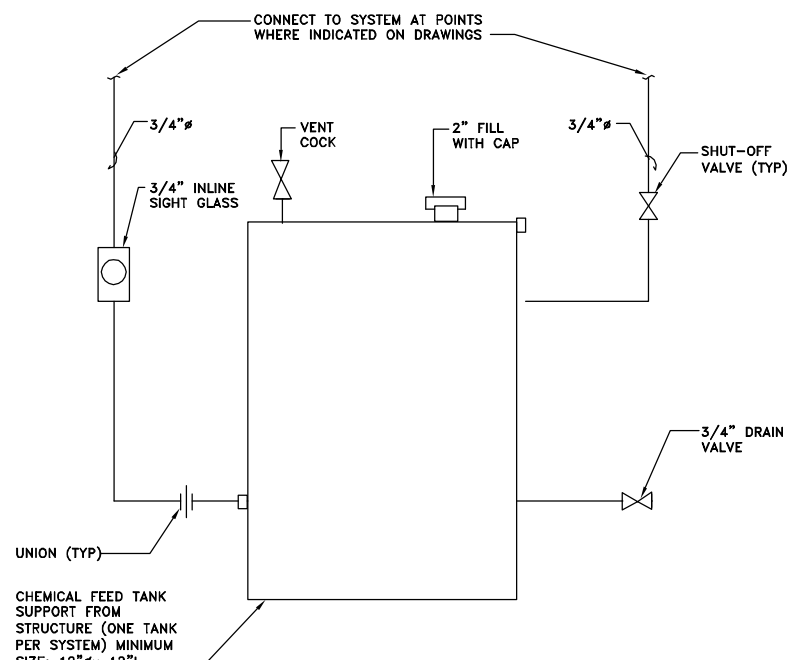
GALLERY DUCT PENETRATION DETAIL

NOT TO SCALE



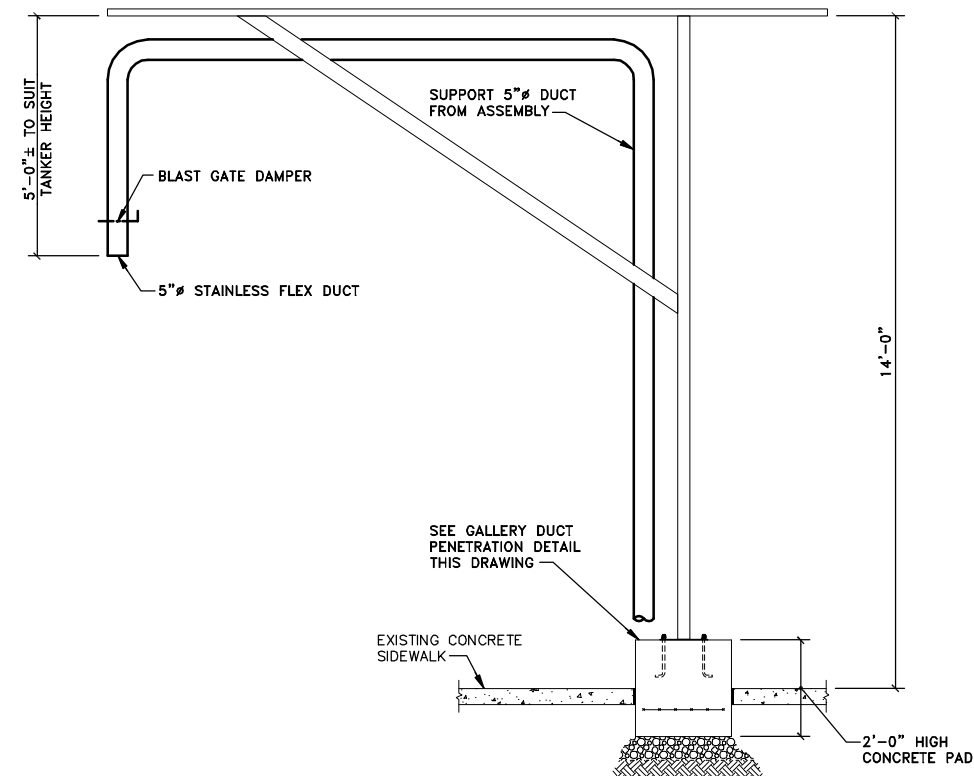
BOILER PIPING DETAIL

NOT TO SCALE



WATER TREATMENT FEEDER DETAIL

NOT TO SCALE



**ODOR CONTROL SYSTEM
DUCT SUPPORT DETAIL**

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

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Project Mgr. --- JCP ---
Designed by --- VAM ---
Drawn by --- RJM ---
Checked by --- WGS/WFF ---
Prof. Eng. --- DONALD GEISSER ---
PE License --- N.Y. 57879 ---

BBL
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engineers & scientists

COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES

DETAILS

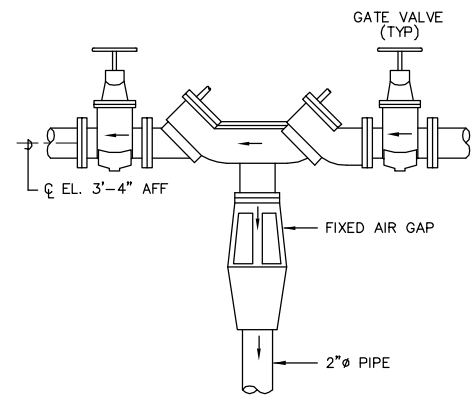
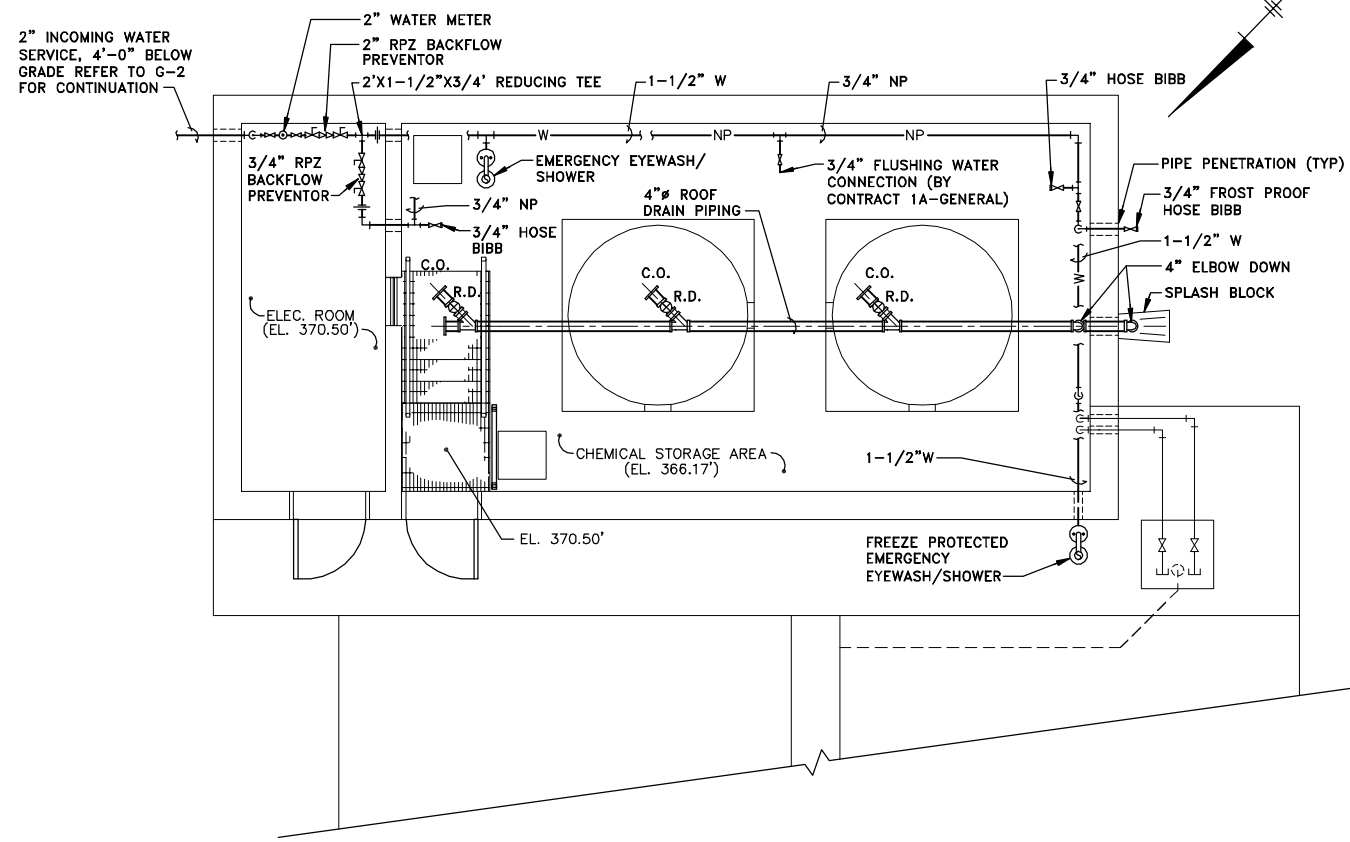
HVAC

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AUGUST 2002
Blasland, Bouck & Lee, Inc.
Corporate Headquarters
6723 Towpath Road
Syracuse, NY 13214
315-446-9120

H-16

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DATE _____ BY _____



BACK FLOW PREVENTOR DETAIL
NOT TO SCALE

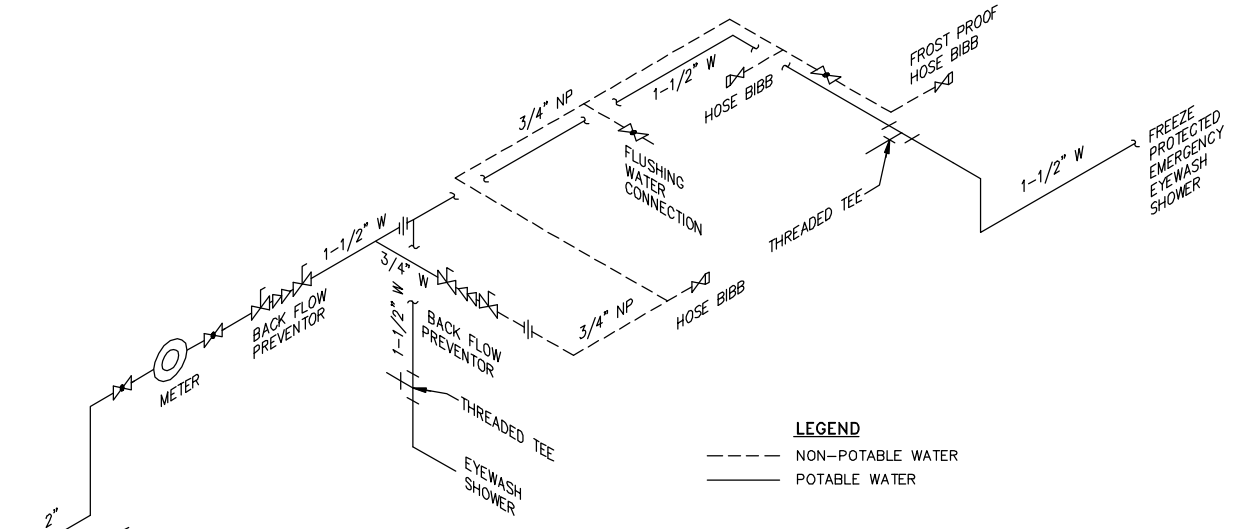
PLAN

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

- LEGEND (FOR P-1 AND P-2)**
- BALL VALVE
 - RPZ BACK FLOW PREVENTOR
 - UNION (TRANSITION TO PVC PIPE)
 - NP - NON-POTABLE WATER
 - W - POTABLE WATER
 - HOSE BIBB
 - R.D. - ROOF DRAIN
 - RPZ - REDUCED PRESSURE ZONE
 - AFF - ABOVE FINISHED FLOOR
 - C.O. - CLEANOUT

NOTES:

1. DO NOT INSTALL PIPING ACROSS OPENINGS FOR WINDOWS, LOUVERS OR EXTERIOR DOORS.
2. ALL FROST FREE HOSE BIBBS EXTERNAL TO THE BUILDING SHALL HAVE A SHUTOFF VALVE ON THE ADJACENT INTERIOR SIDE OF THE BUILDING.
3. FIXED AIR GAP ON BACK FLOW PREVENTORS SHALL BE PIPED TO DRAIN OUT THE EAST WALL, TERMINATED WITH A SCREENED END.
4. ALL PIPING WITHIN THE CHEMICAL STORAGE AREA SHALL BE SCH 80 PVC.
5. THE WATER METER IS TO BE PURCHASED FROM THE ONONDAGA COUNTY WATER AUTHORITY AND INSTALLED BY THE PLUMBING CONTRACTOR.
6. CONTRACTOR SHALL PROVIDE A THREADED TEE AT THE EYEWASH/SOWER FOR A FLOW SWITCH (BY CONTRACT 1A-GENERAL). Δ
7. REFER TO G-4 FOR PIPE PENETRATION DETAILS.
8. ALL WORK BY CONTRACT 1D - PLUMBING UNLESS NOTED OTHERWISE. Δ
9. CONTRACTOR SHALL DIRECT HIS ATTENTION TO ALL SHEETS OF CONTRACT DOCUMENTS FOR WORK CALLED OUT TO BE PERFORMED BY CONTRACT 1D-PLUMBING.



PLUMBING RISER DIAGRAM

NOT TO SCALE

- LEGEND**
- NON-POTABLE WATER
 - POTABLE WATER

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Graphic Scale	No.	Date	Revisions	Init
1/4"=1'-0"	1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	WFF
Drawn by	DCC
Checked by	WFF
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879

BBL
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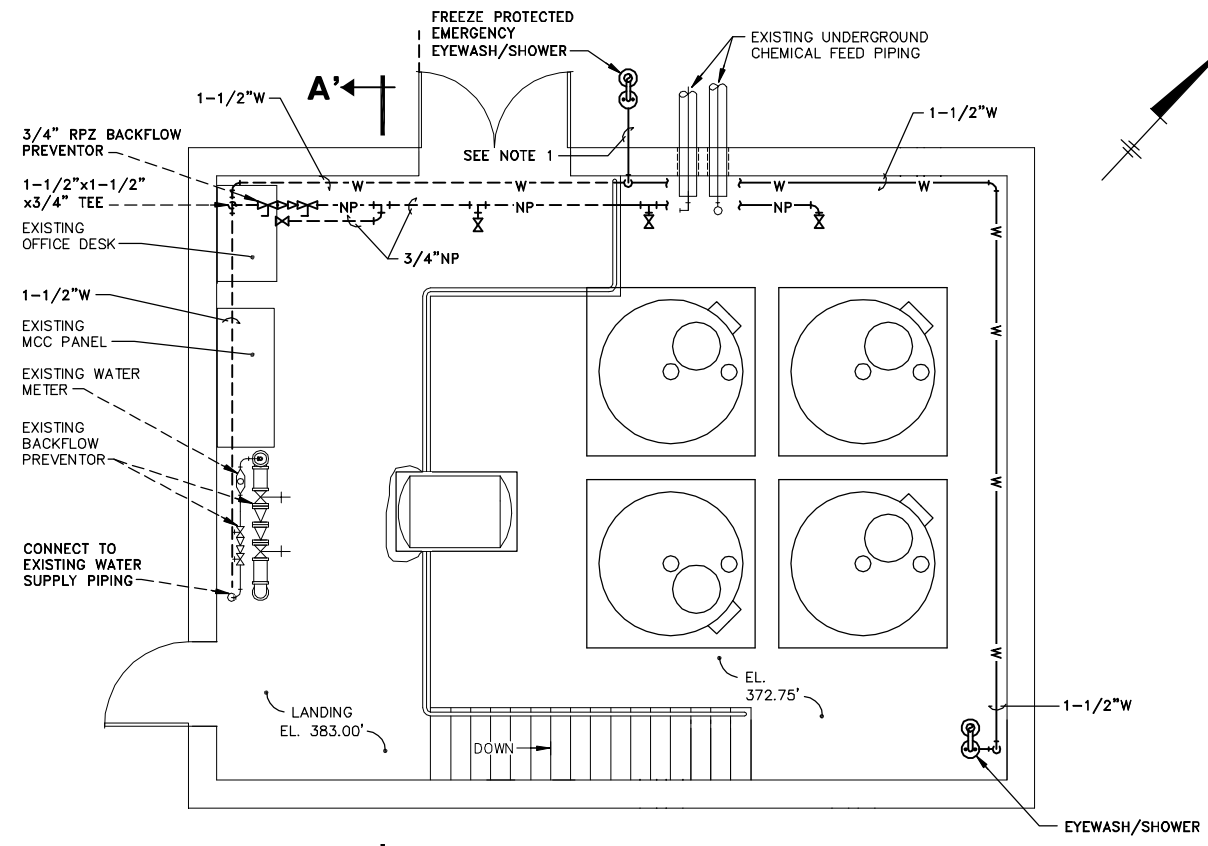
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COUNTY OF ONONDAGA, DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
GASKIN ROAD PUMP STATION

CHEMICAL STORAGE BUILDING
PLAN, RISER DIAGRAM AND DETAIL
PLUMBING

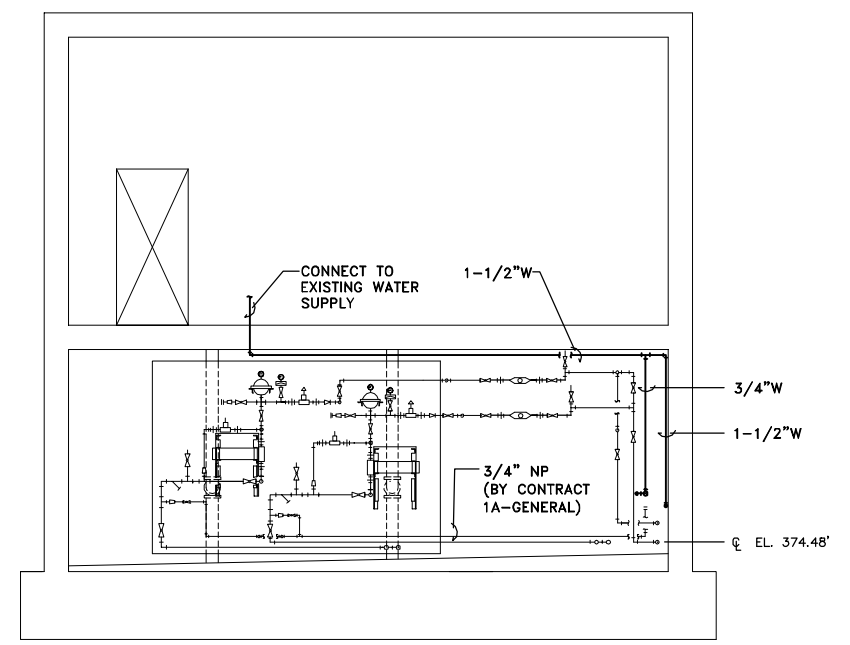
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File Number	003.65.006
Date	AUGUST 2002
Blasland, Bouck & Lee, Inc. Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120	



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

- NOTES:**
1. PROVIDE A 1-1/2"x1-1/2"x1-1/2" THREADED TEE ON INTERIOR OF BUILDING FOR INSTALLATION OF FLOW SWITCH. (FLOW SWITCH BY CONTRACT 1A-GENERAL).
 2. ALL PIPING SHALL BE SCH 80 PVC, SIZE AS INDICATED.
 3. CONTRACTOR SHALL DIRECT HIS ATTENTION TO ALL SHEETS OF CONTRACT DOCUMENTS FOR WORK CALLED OUT TO BE PERFORMED BY CONTRACT 1D-PLUMBING.
 4. REFER TO BACKFLOW PREVENTOR DETAIL, PLUMBING RISER DIAGRAM AND LEGEND ON P-1.
 5. ALL WORK BY CONTRACT 1D-PLUMBING UNLESS NOTED OTHERWISE.



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

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Graphic Scale
1/4"=1'-0"

4'	0	4'	8'
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1	3/8/99	GENERAL REVISIONS	

Project Mgr.	JCP
Designed by	WFF
Drawn by	GMS/RJM
Checked by	WFF
Prof. Eng.	DONALD GEISSER
PE License	N.Y. 57879



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OAK ORCHARD SERVICE AREA - PHASE ONE IMPROVEMENTS TO WASTEWATER FACILITIES
DAVIS ROAD PUMP STATION
**CHEMICAL STORAGE BUILDING
PLAN AND ELEVATION**
PLUMBING

DATE	BY
File Number	003.65.006
Date	AUGUST 2002
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