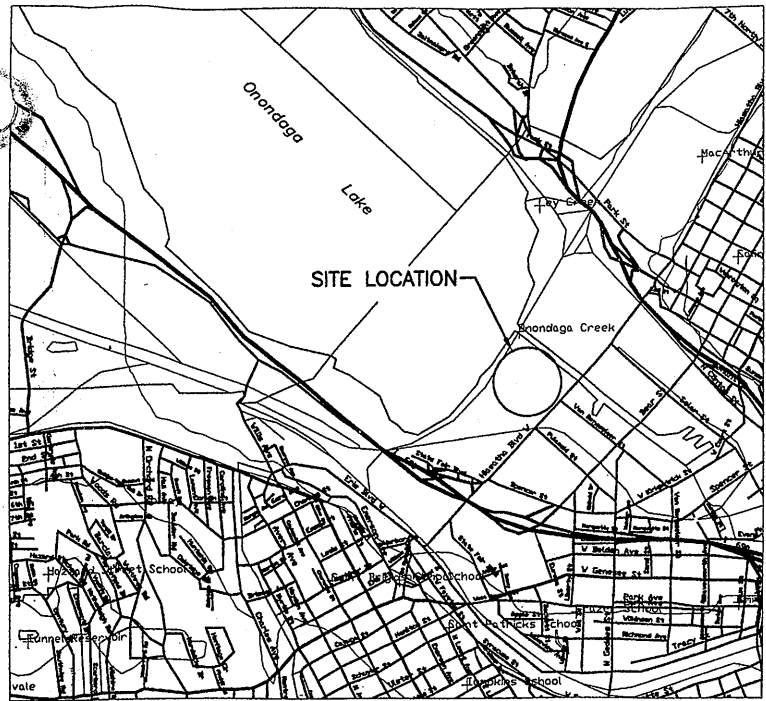
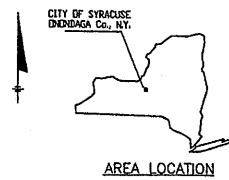


STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT METROPOLITAN SYRACUSE WWTP



LOCATION PLAN
SCALE: 1"=2000'



CONTRACT NO. 4A - GENERAL
CONTRACT NO. 4B - ELECTRIC
CONTRACT NO. 4C - HVAC
CONTRACT NO. 4D - PLUMBING & FIRE PROTECTION

BID REFERENCE 4841
PROJECT NUMBER 587961-001

ONONDAGA COUNTY
DEPARTMENT OF DRAINAGE AND SANITATION
SYRACUSE, NEW YORK



AUGUST 2001

RICHARD L. ELANDER, PE
COMMISSIONER

DATE



(RECORD DRAWING. MADE FROM DRAWING NO. CVR4RD, FILE NO. 0659CVR4RD, DATED AUGUST 2001)

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

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

DATE 12/20/05 BY RCG

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02/26/01 OBG JAS
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No.	Date	Revisions	Init
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1	7/9/01	AS BID	RCG
2	5/22/03	REVISED FOR MODIFICATION 4A-164	RCG
3	8/31/05	RECORDED DRAWING	

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

In charge of --- AHS
Designed by --- AJS
Drawn by --- JAS
Checked by --- AJS



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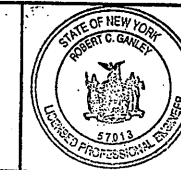
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

DATE 12/12/05 BY REG

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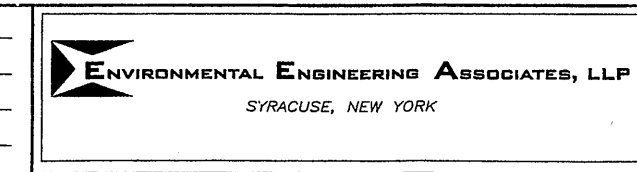
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

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G-002

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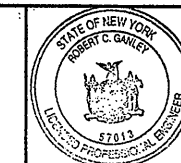
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ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number
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Date
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G-003

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GENERAL

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	STRUCTURE
	PAVEMENT
	SIDEWALK
	SANITARY SEWER LINE
	STORM SEWER LINE
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	PLANT WATER MAIN
	FENCE LINE
	SILT FENCE
	REGRADED CONTOUR
	CHEMICAL FEED PIPING
	GAS LINE
	EXISTING UTILITY TO BE ABANDONED
	BOLLARD
	CLEAN OUT
	CATCH BASIN
	SANITARY SEWER MANHOLE
	STORM SEWER MANHOLE
	UTILITY POLE
	LIGHT POLE
	ROAD SIGN
	WATER VALVE

EXISTING LEGEND

	EXISTING CHEMICAL FEED PIPING
	EXISTING GAS LINE
	EXISTING SANITARY FORCE MAIN
	EXISTING PROPERTY LINE
	EXISTING POTABLE WATER MAIN
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	EXISTING UTILITY POLE
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	EXISTING BUILDING STRUCTURE
	EXISTING DECIDUOUS TREE
	EXISTING CONIFER TREE
	EXISTING ROAD SIGN
	EXISTING LIGHT POST
	EXISTING CLEAN OUT

ABBREVIATIONS:

BLDG	BUILDING
CL	CENTERLINE
CLF	CHAIN LINK FENCE
# or DIA	DIAMETER
DWG	DRAWING
EL	ELEVATION
EX	EXISTING
FM	FORCE MAIN
HMA	HOT MIX ASPHALT
INV	INVERT
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
NAHSO3	SODIUM BISULFITE
NMPC	NIAGRA MOHAWK POWER COOPERATION
NPT	NATIONAL PIPE THREAD
PL	PROPERTY LINE
ROW	RIGHT OF WAY
SF	SILT FENCE
STA	STATION
STL	STEEL
TCB	TEMPORARY CONCRETE BARRIER
TERT PS	TERTIARY PUMP STATION
TYP	TYPICAL
UNK	UNKNOWN
UON	UNLESS OTHERWISE NOTED
WV	WATER VALVE
WWF	WELDED WIRE FABRIC

PIPE MATERIAL:

CIP	CAST IRON PIPE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CS	CARBON STEEL
DIP	DUCTILE IRON PIPE
GS	GALVANIZED STEEL
HDPE	HIGH DENSITY POLYETHYLENE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
SS	STAINLESS STEEL

LINE DESIGNATION:

B	BIOGAS
BAF	BIOLOGICAL AERATED FILTER
BAFBW	BIOLOGICAL AERATED FILTER BACKWASH
DBSW	DISINFECTED BYPASS STORM WATER
DG	DIGESTER GAS
DPE	DISINFECTED PLANT EFFLUENT
DPER	DISINFECTED PRIMARY EFFLUENT RETURN
FCT	FERRIC CHLORIDE TRANSFER
FRP	FIBERGLASS REINFORCED PLASTIC
FW	FIRE WATER
HRFS	HIGH RATE FLOCCULATED SETTLER
HRFSS	HIGH RATE FLOCCULATED SETTLING SYSTEM
HRFSW	HIGH RATE FLOCCULATED SETTLER WASTE SLUDGE
LPS	LOW PRESSURE STEAM
MIS	MAIN INTERCEPTOR SEWER (SAN)
OHE	OVERHEAD ELECTRIC
OHU	OVERHEAD UTILITY
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PD	PLANT DRAIN
PW	POTABLE WATER
PLW	PLANT WATER
RAS	RETURN ACTIVATED SLUDGE
SAN	SANITARY SEWER
SD	STORM DRAIN
SE	SECONDARY EFFLUENT
ST	STORM SEWER
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UV	ULTRAVIOLET DISINFECTION

NOTES:
 ** : OWNER FURNISHED ITEM

2/19/01 BBL DCC GMS DJP
0659G004.DWG

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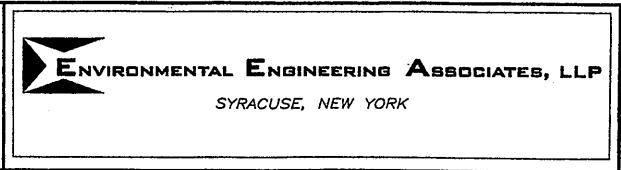
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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

GENERAL NOTES, LEGEND & ABBREVIATIONS

GENERAL

	File Number 00659	G-004
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Robert C. Ganley

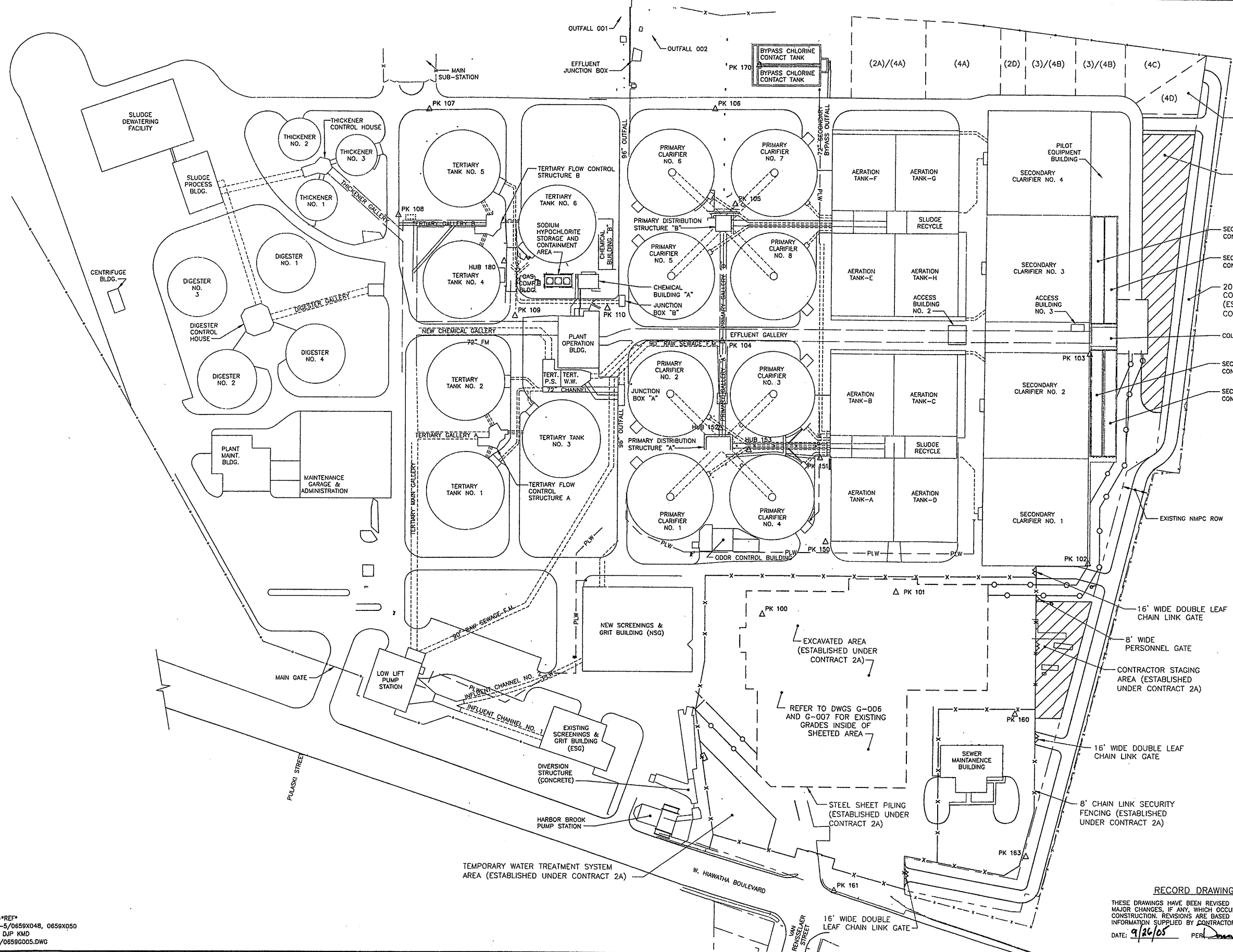


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101	1837.4343	1357.4628	373.25	P.K. NAIL
102	2145.1890	1310.1047	376.39	P.K. NAIL
103	2145.2491	974.4228	376.36	P.K. NAIL
104	1552.8629	956.3948	373.30	P.K. NAIL
105	1572.7534	737.9168	374.24	HUB
106	1539.3232	586.1289	371.08	P.K. NAIL
107	1081.6006	587.3322	371.23	P.K. NAIL
108	1032.5551	755.9135	372.54	P.K. NAIL
109	1220.3224	916.9898	373.11	P.K. NAIL
110	1368.4661	904.5441	372.39	P.K. NAIL
150	1722.9750	1278.1199	372.30	P.K. NAIL
151	1712.9745	1143.2866	372.54	P.K. NAIL
152	1551.1175	1095.9860	373.04	HUB
153	1596.9530	1130.9979	372.65	HUB
160	2028.4652	1553.6234	374.60	P.K. NAIL
161	2016.0964	1785.7632	374.43	HUB
162	1740.7746	1839.7409	376.74	P.K. NAIL
170	1609.7180	515.4846	379.63	P.K. NAIL
180	1202.4012	829.6350	372.08	HUB

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 X: CONTRACT NO.2-5/0659X048, 0659X050
 09/19/05 BBL AK DJP KMD
 05503081/RECORD/0659G005.DWG

1"=80'

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	CJL
2	8/18/05	FOR RECORDS	AK

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

In charge of	DFG
Designed by	CJL
Drawn by	AK
Checked by	JCP

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

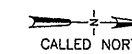
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

EXISTING SITE PLAN

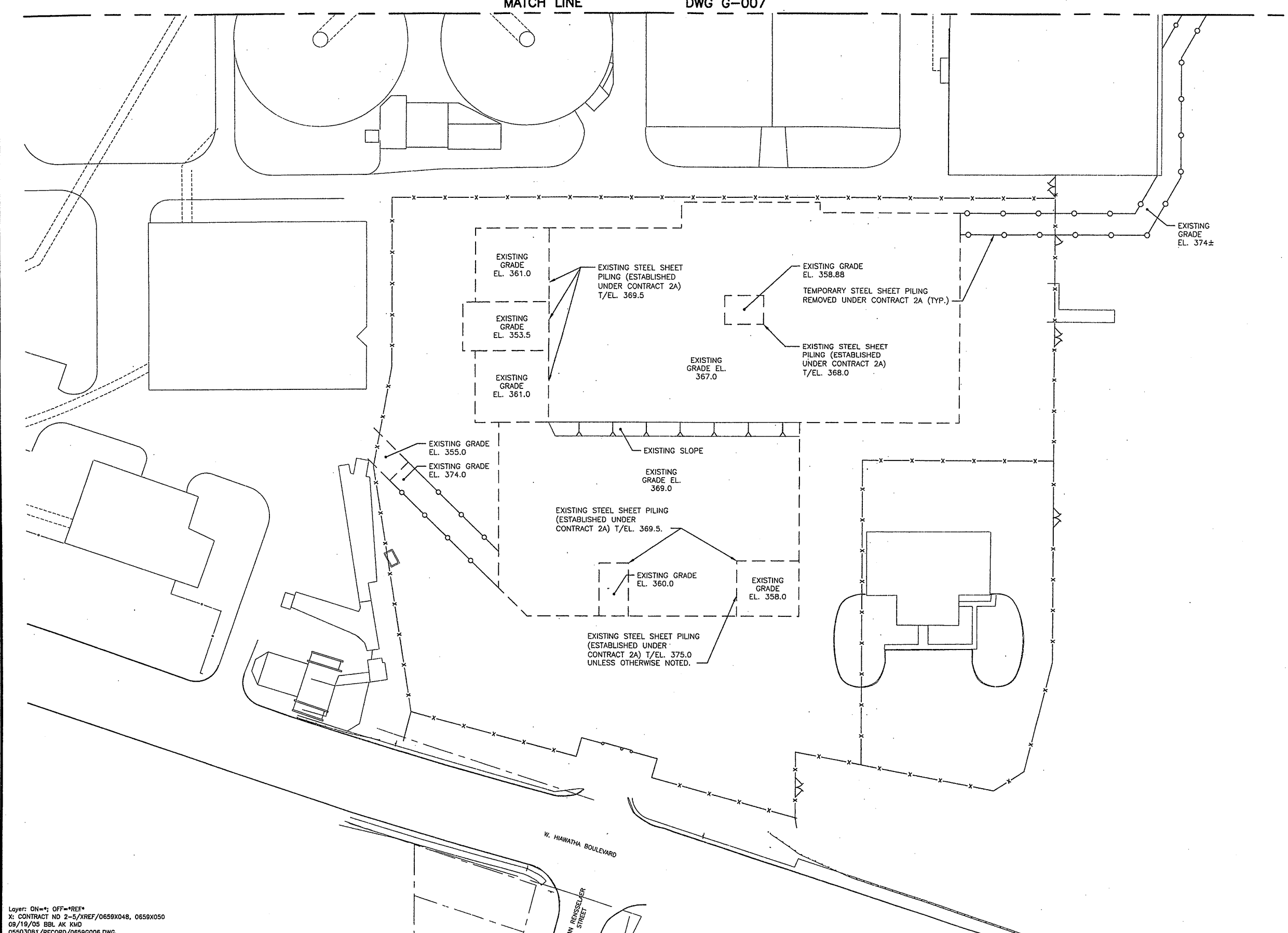
GENERAL



File Number	00659
Date	APRIL 2001
Project No.	G-005



- NOTES**
1. THE SHEETING AREAS HAVE BEEN BACKFILLED BY CONTRACT 2A TO THE ELEVATIONS SHOWN WITH FILTER FABRIC AT THE BASE COVERED WITH COMPACTED (90%) TYPE "E" MATERIAL TO WITHIN 2.5" OF FINISHED GRADE AND FOLLOWED BY 2.5" OF COMPACTED (90%) TYPE "A" MATERIAL.
 2. FINISHED GRADE ELEVATIONS ESTABLISHED UNDER CONTRACT 2A.
 3. THIS DRAWING IS ONLY INTENDED TO PROVIDE EXISTING GRADE INFORMATION WITHIN THE LIMITS OF EXISTING STEEL SHEET PILING.
 4. CONTRACT 4A IS REQUIRED TO REMOVE ALL STEEL SHEET PILING INSTALLED AND LEFT-IN-PLACE BY CONTRACT 2A.

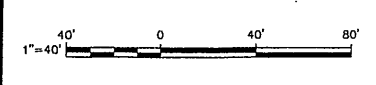


RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/26/05 PER: *Donald FS*

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

Layer: ON=1; OFF=1REF*
 X: CONTRACT NO 2-5/REF/0659X048, 0659X050
 09/19/05 BBL AK KMD
 05503081/RECORD/0659G006.DWG



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

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	DFG
2	8/18/05	FOR RECORDS	DFG

In charge of DFG
 Designed by CJL
 Drawn by AK
 Checked by JCP



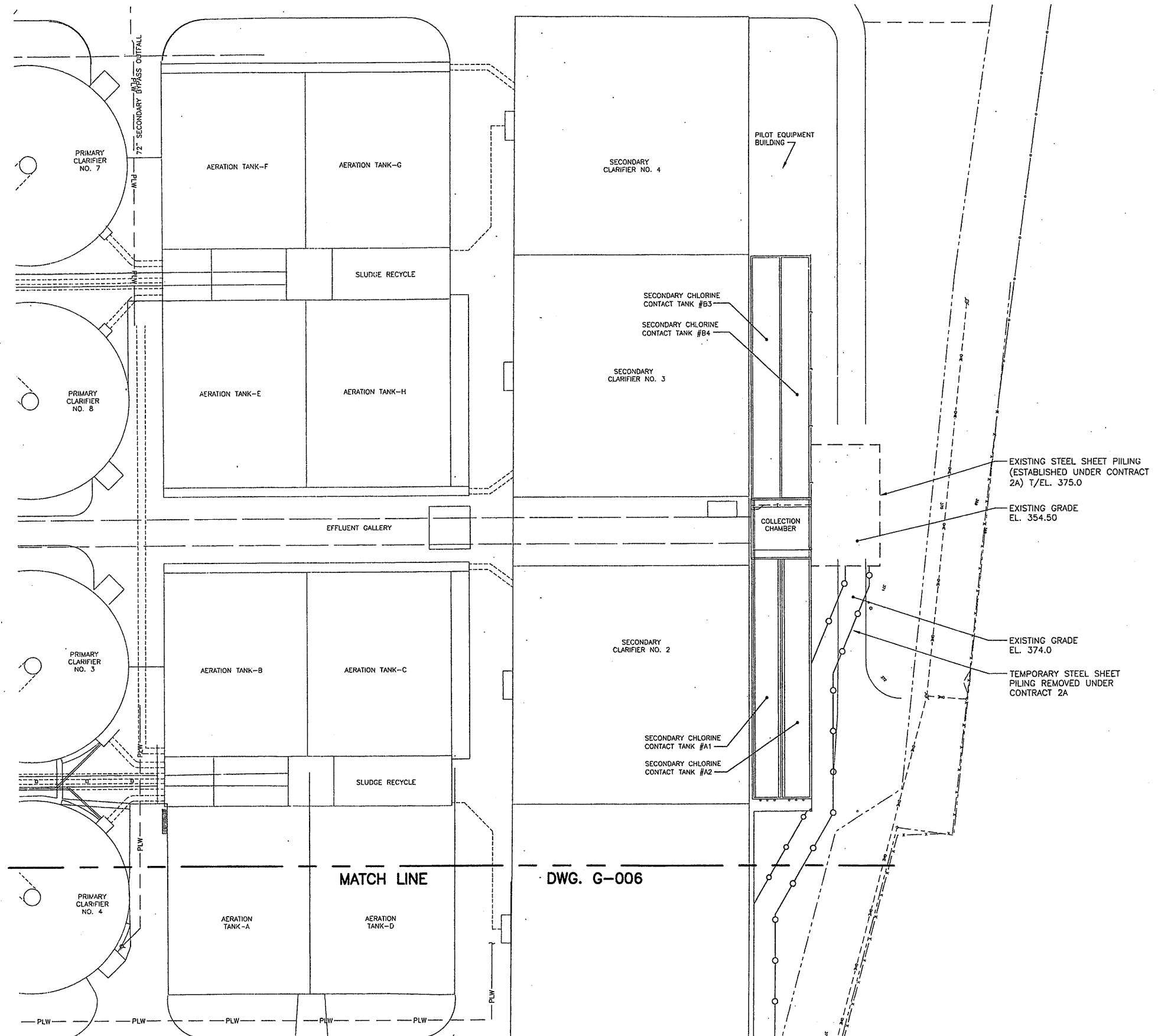
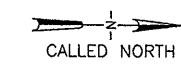
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

EXISTING PARTIAL SITE PLAN I

GENERAL



File Number
00659
 Date
APRIL 2001
 G-006



NOTES

1. THE SHEETING AREAS HAVE BEEN BACKFILLED BY CONTRACT 2A TO THE ELEVATIONS SHOWN WITH FILTER FABRIC AT THE BASE COVERED WITH COMPACTED (90%) TYPE "E" MATERIAL TO WITHIN 2.5' OF FINISHED GRADE AND FOLLOWED BY 2.5' OF COMPACTED (90%) TYPE "A" MATERIAL.
2. FINISHED GRADE ELEVATIONS ESTABLISHED UNDER CONTRACT 2A.
3. THIS DRAWING IS ONLY INTENDED TO PROVIDE EXISTING GRADE INFORMATION WITHIN THE LIMITS OF EXISTING STEEL SHEET PILING.
4. CONTRACT 4A IS REQUIRED TO REMOVE ALL STEEL SHEET PILING INSTALLED AND LEFT-IN-PLACE BY CONTRACT 2A.

EXISTING STEEL SHEET PILING
(ESTABLISHED UNDER CONTRACT
2A) T/EL. 375.0

EXISTING GRADE
EL. 354.50

EXISTING GRADE
EL. 374.0

TEMPORARY STEEL SHEET
PILING REMOVED UNDER
CONTRACT 2A

MATCH LINE
DWG. G-006

RECORD DRAWING

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DATE: 9/26/05 PER: *Donald F. J.*

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

Layer: ON=*; OFF=*REF*
X: CONTRACT NO.2-5/XREF/0659Y048.DWG
09/19/05 DBG PWW BBL AK KMD
05903081/RECORD/0659G007.DWG

1"=40'
0 40' 80'

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

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	CJL
2	8/18/05	FOR RECORDS	AK

In charge of DFG
Designed by CJL
Drawn by AK
Checked by JCP

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
EXISTING PARTIAL SITE PLAN II

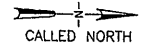
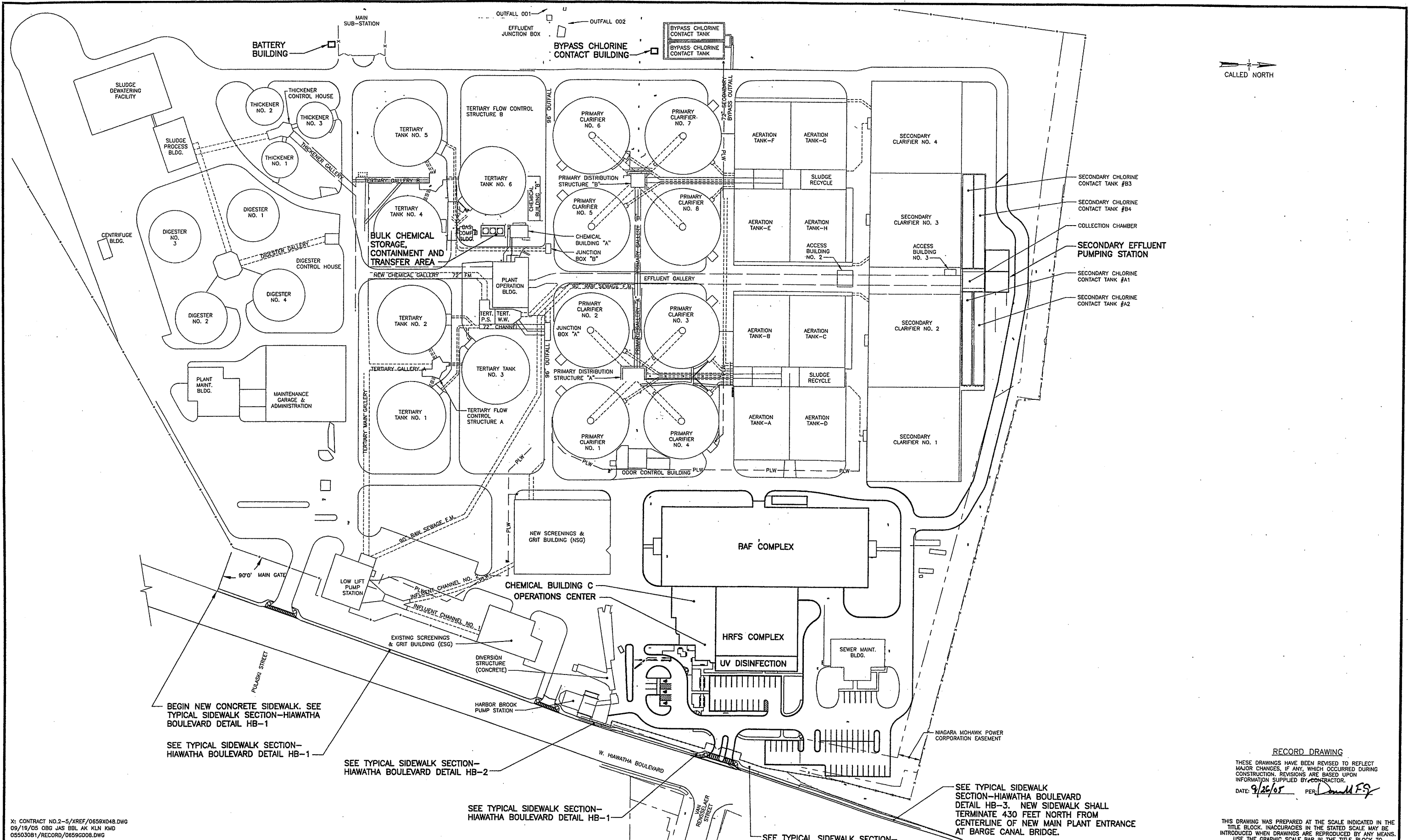


File Number
00659

Date
APRIL 2001

G-007

GENERAL



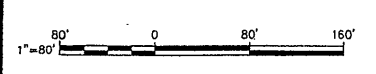
- SECONDARY CHLORINE CONTACT TANK #B3
- SECONDARY CHLORINE CONTACT TANK #B4
- COLLECTION CHAMBER
- SECONDARY EFFLUENT PUMPING STATION
- SECONDARY CHLORINE CONTACT TANK #A1
- SECONDARY CHLORINE CONTACT TANK #A2

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/26/05 PER: *Donald F. J.*

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X: CONTRACT NO.2-5/YREF/0559048.DWG
 09/19/05 OBG JAS BBL AK KLN KMD
 05503081/RECORD/0559008.DWG



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	CJL
2	8/18/05	FOR RECORDS	JCP

In charge of — DFG
 Designed by — CJL
 Drawn by — AK
 Checked by — JCP

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 SYRACUSE, NEW YORK

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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

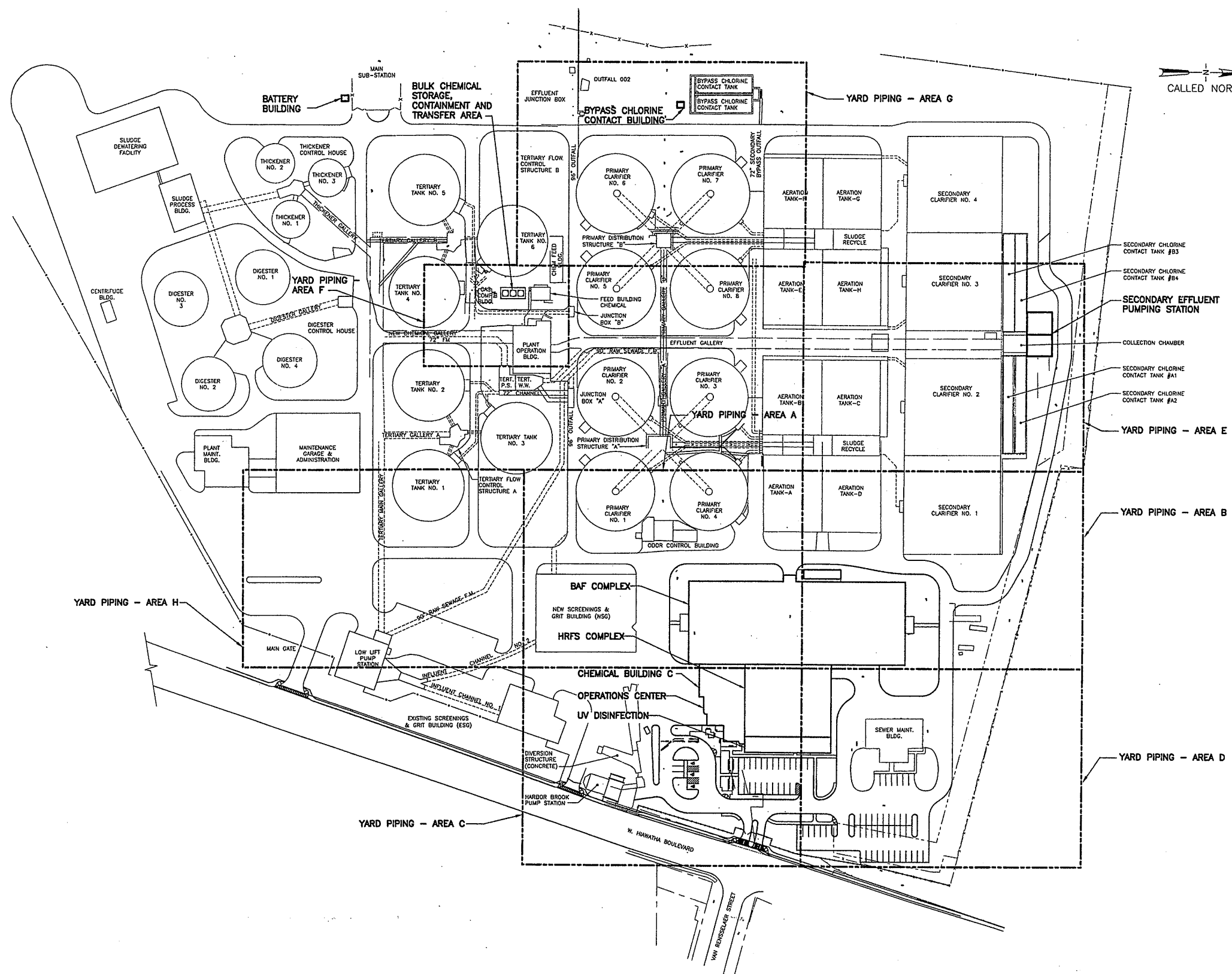
SITE PLAN

GENERAL



File Number 00659	G-008
Date APRIL 2001	

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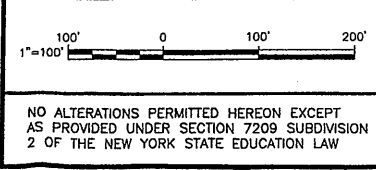
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RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/26/05 PER: Donald F.P.

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Layer: ON=*, OFF=*REF*
 X: CONTRACT NO2-5/XREF/0659X048
 08/19/05 BBL AK KMD
 05503081/RECORD/06590009.DWG



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	CJL
2	8/18/05	FOR RECORDS	JCP

In charge of — DFG
 Designed by — CJL
 Drawn by — AK
 Checked by — JCP

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 SYRACUSE, NEW YORK

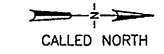
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

KEY PLAN - YARD PIPING

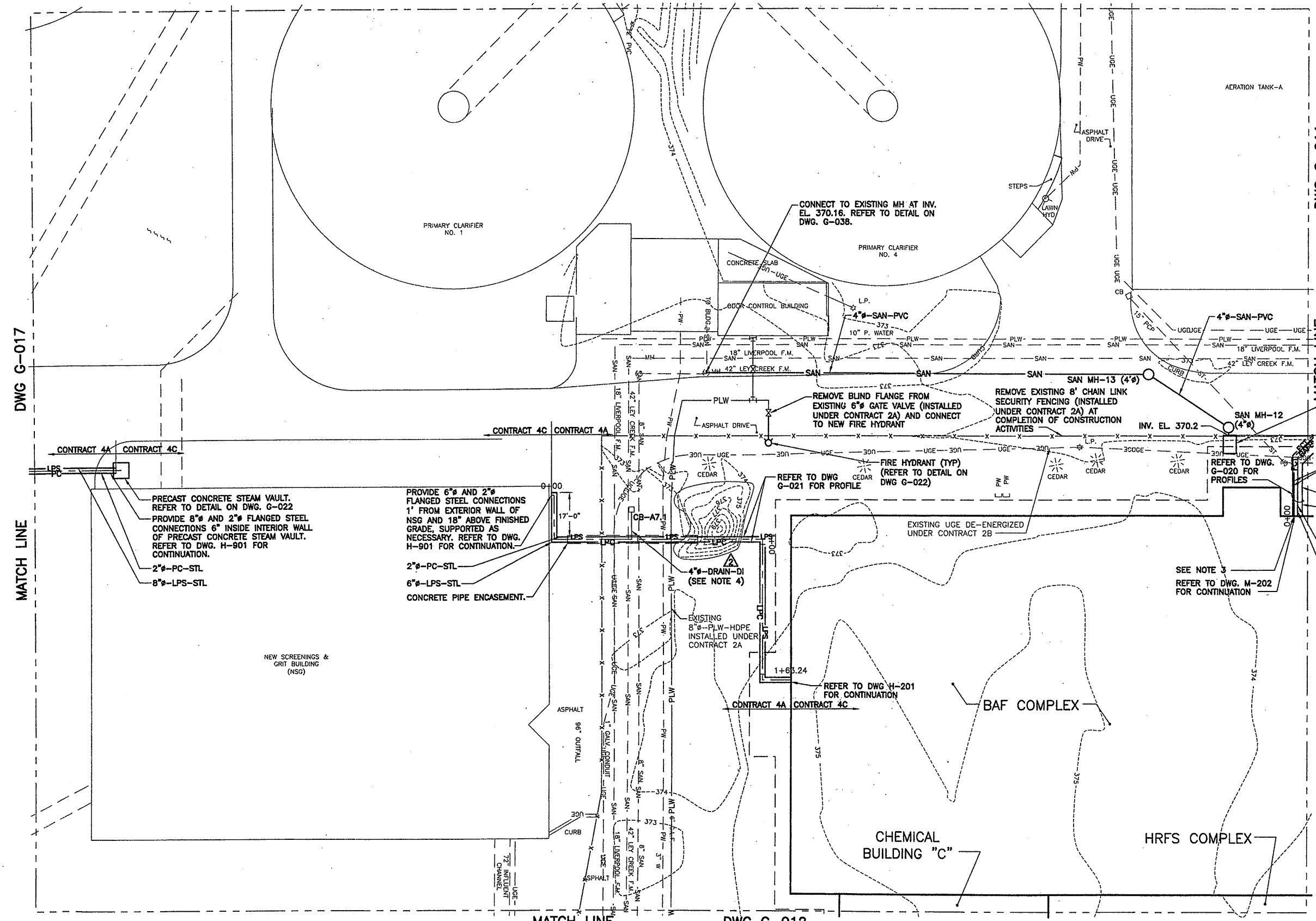


File Number
 00659
 Date
 APRIL 2001
G-009

GENERAL



- NOTE**
1. REFER TO DWGS G-006 AND G-007 FOR EXISTING GRADES INSIDE OF SHEETED AREA.
 2. REFER TO DWG-024 FOR STORM SEWER PIPING LOCATIONS.
 3. REFER TO WALL PENETRATION DETAIL ON DWG. M-003.
 4. SLOPE DRAIN FROM INVERT OF STEAM AND CONDENSATE PIPING CONCRETE ENCASUREMENT TO CATCH BASIN CB-A7.1 AT A MINIMUM SLOPE OF 2%. COORDINATE LOCATION OF DRAIN WITH LOCATION OF CATCH BASIN CB.A7.1. REFER TO DWG G-024.



DWG G-017

MATCH LINE

DWG G-011

MATCH LINE

MATCH LINE

DWG G-012

Layer: DN=*, OFF=*REF*
 X: CONTRACT NO.2-5/0659X048, 0659X050
 09/19/05 BBL AK DJP KMD
 05503081/RECORD/0659G010.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	CJL
2	5/14/03	MODIFICATION NO. 4A-115	AK
3	5/28/03	REVISED FOR MODIFICATION 4A-164	AK
4	8/18/05	FOR RECORDS	JCP

In charge of DFG
 Designed by CJL
 Drawn by AK
 Checked by JCP

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

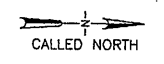
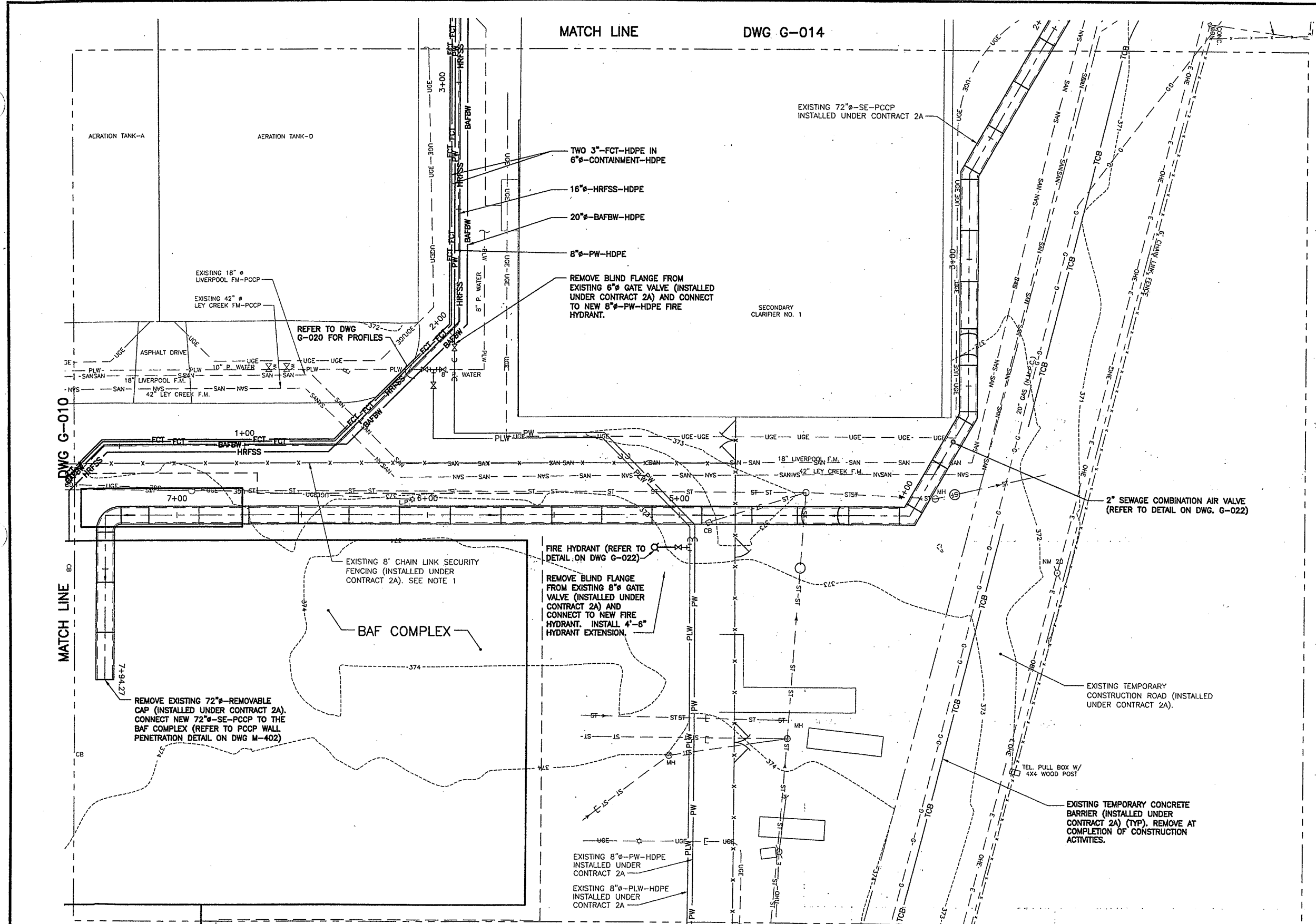
YARD PIPING AREA A
 GENERAL

RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/26/05 PER: *Donald E. F.*

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

File Number: 00659
 Date: MAY 2003
 G-010

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



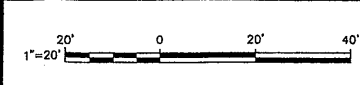
- NOTES**
1. REMOVE EXISTING 8' CHAIN LINK SECURITY FENCING AT COMPLETION OF CONSTRUCTION ACTIVITIES.
 2. PROVIDE COUPLINGS AND FITTINGS AS REQUIRED FOR CONNECTION TO EXISTING PIPE.
 3. REFER TO DWGS G-006 AND G-007 FOR EXISTING GRADES INSIDE OF SHEETED AREA.
 4. REFER TO DWG G-024 FOR STORM SEWER PIPING LOCATIONS.

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/26/05 PER: Donald F. J.

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Layer: ON=; OFF=REF*
 X: CONTRACT NO.2-S/0659X048, 0659X050
 09/19/05 BBL AK KLN KMD
 05503081/RECORD/0659G011.DWG



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

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	CJL
2	8/18/05	FOR RECORDS	AK

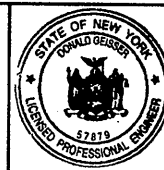
In charge of _____ DFG
 Designed by _____ CJL
 Drawn by _____ AK
 Checked by _____ JCP



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

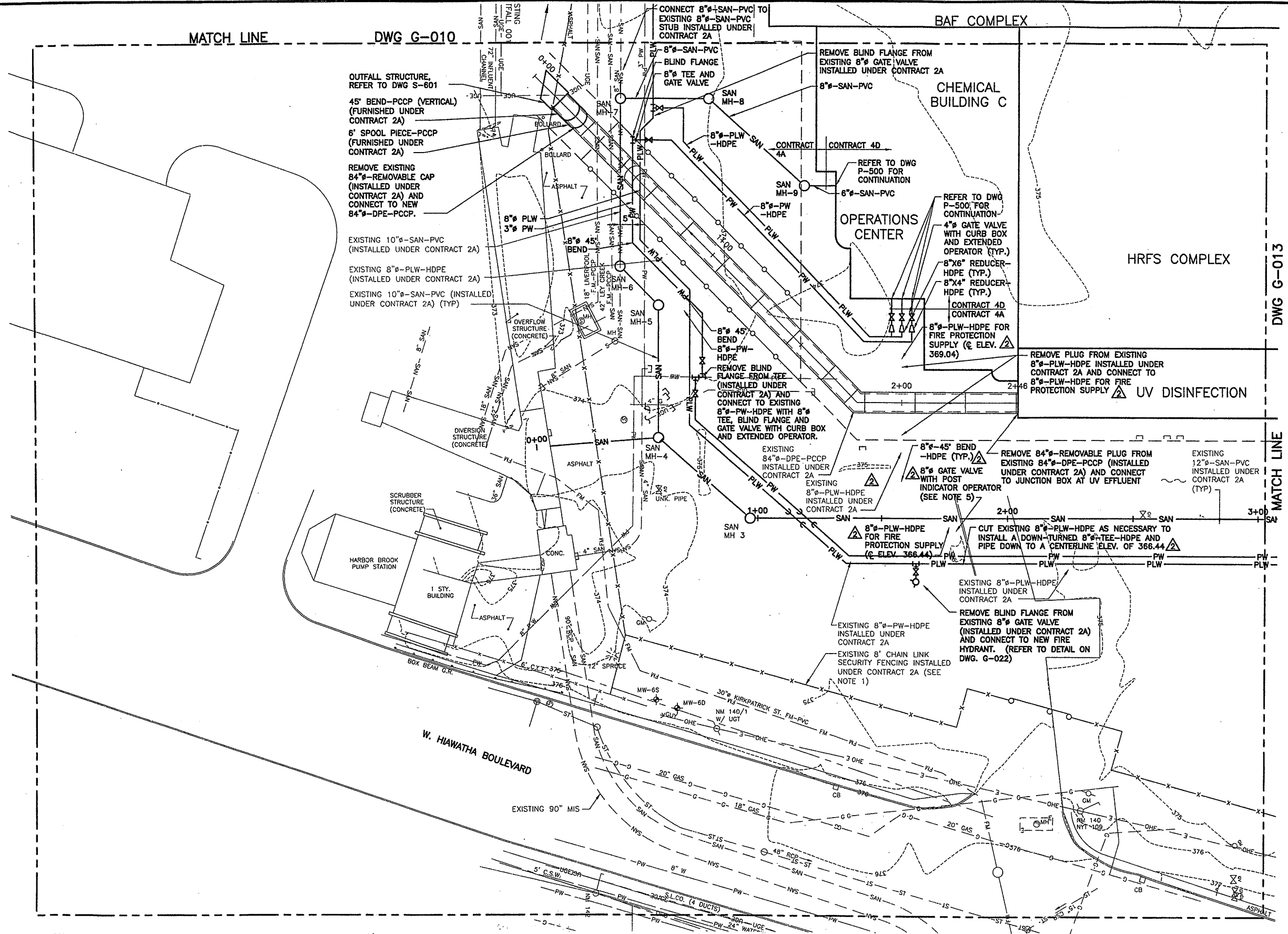
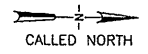
**YARD PIPING
 AREA B**

GENERAL



File Number
00659
 Date
APRIL 2001

G-011



OUTFALL STRUCTURE, REFER TO DWG S-601
 45' BEND-PCCP (VERTICAL) (FURNISHED UNDER CONTRACT 2A)
 6' SPOOL PIECE-PCCP (FURNISHED UNDER CONTRACT 2A)
 REMOVE EXISTING 84" REMOVABLE CAP (INSTALLED UNDER CONTRACT 2A) AND CONNECT TO NEW 84" DPE-PCCP.
 EXISTING 10" SAN-PVC (INSTALLED UNDER CONTRACT 2A)
 EXISTING 8" PLW-HDPE (INSTALLED UNDER CONTRACT 2A)
 EXISTING 10" SAN-PVC (INSTALLED UNDER CONTRACT 2A) (TYP)

REMOVE BLIND FLANGE FROM EXISTING 8" GATE VALVE INSTALLED UNDER CONTRACT 2A

OPERATIONS CENTER

CHEMICAL BUILDING C

HRFS COMPLEX

REMOVE PLUG FROM EXISTING 8" PLW-HDPE INSTALLED UNDER CONTRACT 2A AND CONNECT TO 8" PLW-HDPE FOR FIRE PROTECTION SUPPLY (ELEV. 369.04) **UV DISINFECTION**

REMOVE 84" REMOVABLE PLUG FROM EXISTING 84" DPE-PCCP (INSTALLED UNDER CONTRACT 2A) AND CONNECT TO JUNCTION BOX AT UV EFFLUENT

REMOVE BLIND FLANGE FROM EXISTING 8" GATE VALVE (INSTALLED UNDER CONTRACT 2A) AND CONNECT TO NEW FIRE HYDRANT. (REFER TO DETAIL ON DWG. G-022)

- NOTES**
1. REMOVE EXISTING 8' CHAIN LINK SECURITY FENCING AT COMPLETION OF CONSTRUCTION ACTIVITIES.
 2. PROVIDE COUPLINGS AND FITTINGS AS REQUIRED FOR CONNECTION TO EXISTING PIPE.
 3. REFER TO DWGS G-006 AND G-007 FOR EXISTING GRADES INSIDE OF SHEETED AREA.
 4. REFER TO DWG-024 FOR STORM SEWER PIPING LOCATIONS.
 5. 8" GATE VALVE WITH POST INDICATOR OPERATOR SHALL BE INSTALLED AT A NORTHING OF 1672.49 AND AN EASTING OF 1707.19 IN ORDER TO BE LOCATED WITHIN THE CORRESPONDING MULCH SHRUB BED SHOWN ON THE ENTRANCE PLAZA LANDSCAPE PLAN ON CONTRACT DRAWING G-031.

DWG G-013

MATCH LINE

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/26/05 PER: *Donald F. G.*

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Layer: ON=*, OFF=REF*
 X: CONTRACT NO.2-5/XREF/0659X048,0659X050
 09/19/05 BBL AK DJP KMD
 05503081/RECORD/0659G012.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DK
1	7/3/01	AS BID	DK
2	5/14/03	MODIFICATION NO. 4A-060	DK
3	5/28/03	REVISED FOR MODIFICATION 4A-164	DK
4	8/18/05	FOR RECORDS	DK

In charge of DFG
 Designed by CJL
 Drawn by AK
 Checked by JCP

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

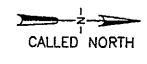
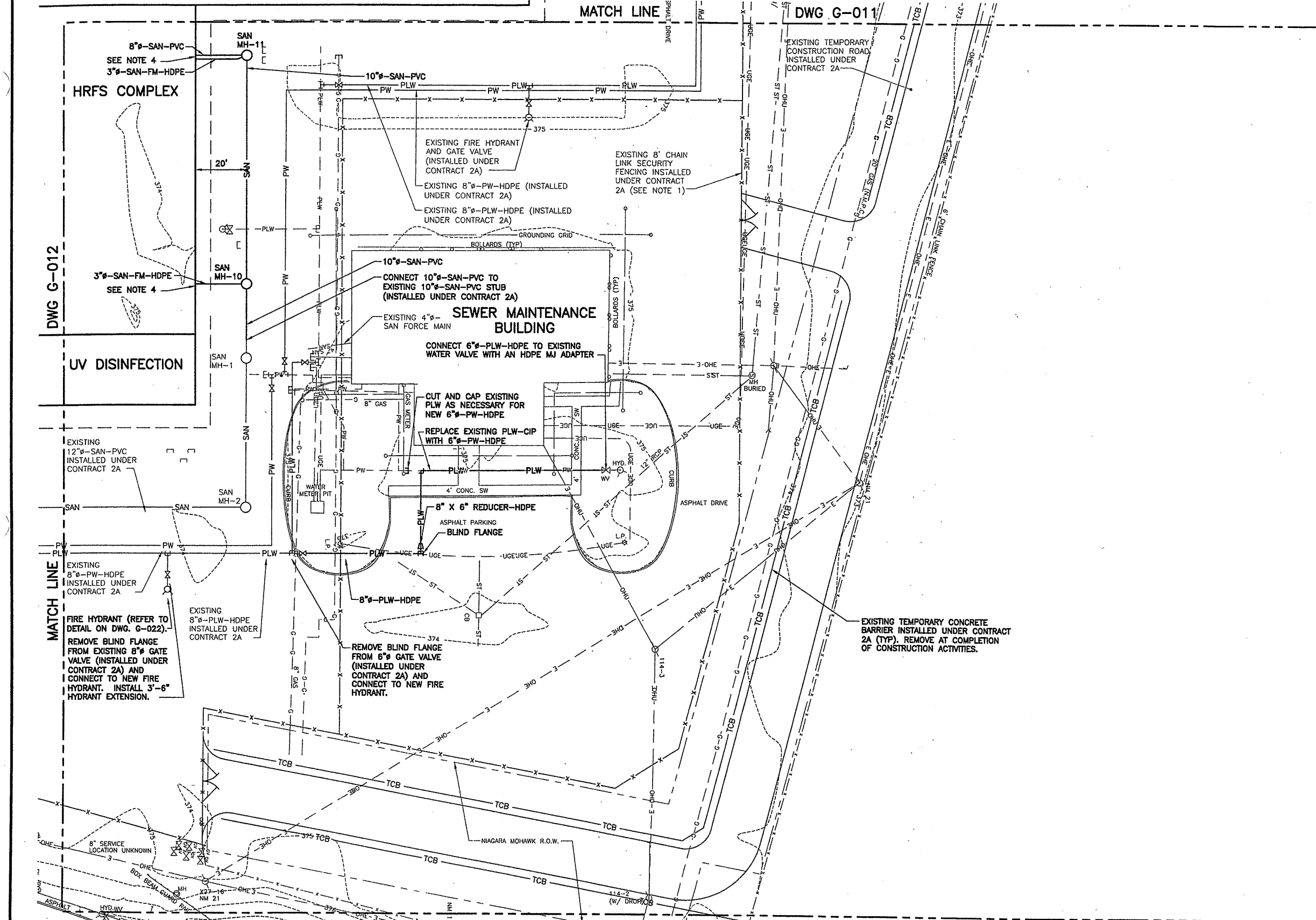
YARD PIPING AREA C

GENERAL



File Number
 00659
 Date
 MAY 2003
Donald F. G.

G-012



- NOTES**
1. REMOVE EXISTING 8' CHAIN LINK SECURITY FENCING AT COMPLETION OF CONSTRUCTION ACTIVITIES.
 2. REFER TO DWGS G-006 AND G-007 FOR EXISTING GRADES INSIDE OF SHEETED AREA.
 3. REFER TO DWG. G-024 FOR STORM SEWER PIPING LOCATIONS.
 4. REFER TO WALL PENETRATION DETAIL ON DWG. M-003.

RECORD DRAWING

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DATE: 9/26/05 PER: *Donald E. F.*

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Layer: ON=*, OFF=*REF*
 X: CONTRACT NO. 2-5/XREF/0659X048,0659X050
 09/19/05 BBL AK D/P KMD
 05503081/RECORD/0659G013.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	CJL
2	8/18/05	FOR RECORDS	AK

In charge of: DFG
 Designed by: CJL
 Drawn by: AK
 Checked by: JCP



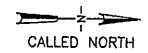
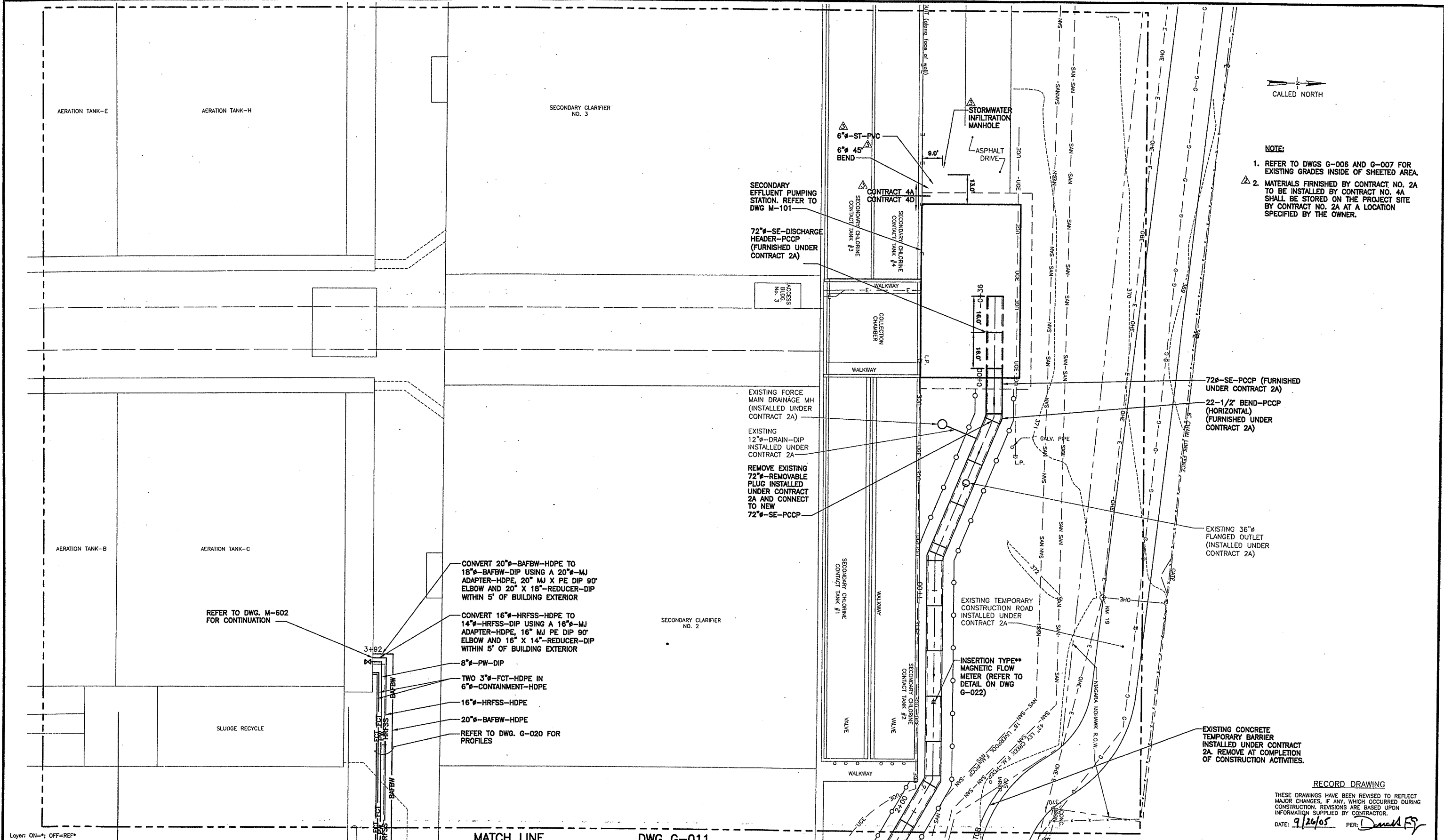
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

YARD PIPING AREA D

GENERAL



File Number: 00659
 Date: APRIL 2001
G-013



- NOTE:**
- REFER TO DWGS G-006 AND G-007 FOR EXISTING GRADES INSIDE OF SHEETED AREA.
 - MATERIALS FINISHED BY CONTRACT NO. 2A TO BE INSTALLED BY CONTRACT NO. 4A SHALL BE STORED ON THE PROJECT SITE BY CONTRACT NO. 2A AT A LOCATION SPECIFIED BY THE OWNER.

72" SE-PCCP (FURNISHED UNDER CONTRACT 2A)
 22-1/2" BEND-PCCP (HORIZONTAL) (FURNISHED UNDER CONTRACT 2A)

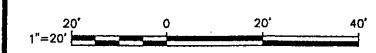
EXISTING 36" FLANGED OUTLET (INSTALLED UNDER CONTRACT 2A)

EXISTING CONCRETE TEMPORARY BARRIER INSTALLED UNDER CONTRACT 2A. REMOVE AT COMPLETION OF CONSTRUCTION ACTIVITIES.

- CONVERT 20" BAFBW-HDPE TO 18" BAFBW-DIP USING A 20" MJ ADAPTER-HDPE, 20" MJ X PE DIP 90° ELBOW AND 20" X 18"-REDUCER-DIP WITHIN 5' OF BUILDING EXTERIOR
- CONVERT 16" HRFSS-HDPE TO 14" HRFSS-DIP USING A 16" MJ ADAPTER-HDPE, 16" MJ PE DIP 90° ELBOW AND 16" X 14"-REDUCER-DIP WITHIN 5' OF BUILDING EXTERIOR
- 8" PW-DIP
- TWO 3" FCT-HDPE IN 6" CONTAINMENT-HDPE
- 16" HRFSS-HDPE
- 20" BAFBW-HDPE
- REFER TO DWG. G-020 FOR PROFILES

REFER TO DWG. M-602 FOR CONTINUATION

Layer: ON=; OFF=REF*
 X: 0659X048, X050.DWG
 09/19/05 BBL AK GMS KMD
 05503081/RECORD/0659G014.DWG



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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/11/01	AS BID	DFG
2	9/26/01	REVISED PER ADDENDUM NO. 3	DFG
3	3/22/02	REVISED PER MODIFICATION 4A-003	DFG
4	8/18/05	FOR RECORDS	

In charge of DFG
 Designed by CJL
 Drawn by AK
 Checked by JCP



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

YARD PIPING AREA E

GENERAL



File Number
 00659
 Date
 APRIL 2001
 G-014

RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/26/05 PER: Donald F. Gaudin
 THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

TERTIARY TANK NO. 6

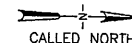
REFER TO DWG M-505 FOR STRUCTURAL MODIFICATIONS AND NEW PIPING IN THIS AREA

6" - DRAIN - PVC. REFER TO DWG M-505

2" - NAHSO3 FILL - PVC. REFER TO DWG M-505

CHEMICAL FEED BUILDING "B"

SEE NOTE 6
REFER TO DWG M-318 FOR CONTINUATION



NOTES

1. NAHSO3 CONTAINMENT PIPES SHALL BE INSTALLED AT A 1% MINIMUM SLOPE FROM THE CHEMICAL FEED BUILDING TO THE PLANT OPERATION BUILDING.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES.
3. ALL EXCAVATION NECESSARY FOR INSTALLATION OF NAHSO3 PIPES IN BETWEEN THE CHEMICAL FEED BUILDING "A" AND THE PLANT OPERATION BUILDING SHALL BE HAND DUG.
4. REFER TO DWG M-505 FOR CONNECTIONS INSIDE THE GAS COMPRESSION BUILDING.
5. CONTRACTOR SHALL ANTICIPATE ENCOUNTERING STEEL SHEETING ADJACENT TO EXISTING 60" PIPELINE. CONTRACTOR SHALL CUT AND NOTCH SHEETING WHERE REQUIRED TO INSTALL NEW PIPELINES.
6. REFER TO WALL PENETRATION DETAIL ON DWG. M-003.

SEE NOTES 4 AND 6

REMOVE AND REPLACE EXISTING 6" - BIOGAS - STL WITH 6" - BIOGAS - HDPE SLOPED TO EXISTING GAS COMPRESSION BUILDING WITH TRANSITION COUPLING.

SEE NOTE 5

TWO 1" - NAHSO3 - HDPE IN 4" - CONTAINMENT - HDPE (ONE ACTIVE, ONE SPARE) SEE NOTE 1

REFER TO DWG G-019 FOR PROFILE

REFER TO DETAIL ON DWG M-509 FOR CONTINUATION

SEE NOTE 6

REMOVE AND REPLACE TWO EXISTING 1-1/2" CHEMICAL LINES IN 4" CONTAINMENT WITH TWO 3" - FCT - HDPE IN 6" - CONTAINMENT - HDPE

REFER TO DWG G-019 FOR PROFILE

SEE NOTE 6

REFER TO DWG M-605 FOR CONTINUATION

REMOVE AND REPLACE EXISTING 2" PLANT WATER LINE WITH 2" - PLW - HDPE

SEE NOTE 5
1" - FUTURE CHEMICAL - HDPE IN 4" - CONTAINMENT - HDPE SLOPED AT 1% TO THE CHEMICAL GALLERY

PROVIDE NEW/REFURBISHED WALL PENETRATIONS (TYP.). REFER TO DETAIL ON DWG. M-003

CONNECT 6" - BIOGAS - HDPE TO EXISTING 6" - BIOGAS - STL AFTER NEW HDPE 90° FLANGED BEND WITH TRANSITION COUPLING.

EXISTING 6" - BIOGAS - STL

SEE NOTE 6

REMOVE AND REPLACE EXISTING 2" PLANT WATER LINE WITH 2" - PLW - HDPE

CONNECT 2" - PLW - HDPE TO EXISTING 2" BALL VALVE ON EXISTING 2" PLANT WATER LINE

TERMINATE WITH 1" HDPE BLIND FLANGE 6" INSIDE CHEMICAL GALLERY WALL AT INV. EL. 366.42

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X: 0659X048, X050.DWG
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DATE: 9/26/05 PER: *Donald F. J.*

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0	4/20/01	ISSUED FOR APPROVAL	DFG
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2	8/18/05	FOR RECORDS	DFG

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Designed by: CJL
Drawn by: AK
Checked by: JCP



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

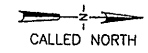
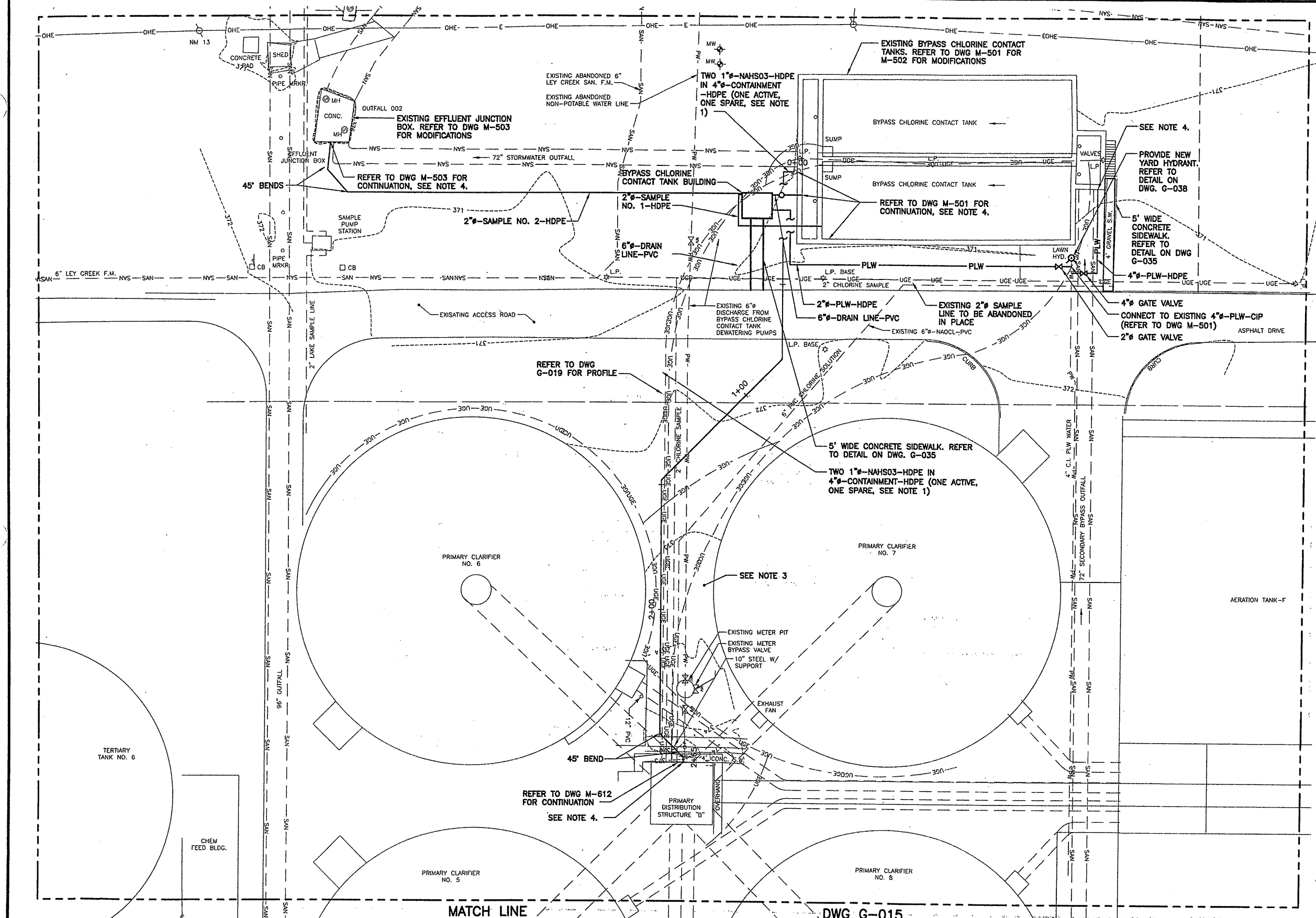


File Number: 00659
Date: APRIL 2001
G-015

YARD PIPING AREA F

GENERAL

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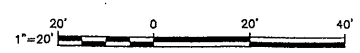
- NOTES**
1. NAHSO3 CONTAINMENT PIPES SHALL BE INSTALLED AT A 1% SLOPE FROM THE BYPASS CHLORINE CONTACT TANKS TO THE PRIMARY DISTRIBUTION STRUCTURE "B".
 2. SAMPLE, PLANT WATER, AND CHEMICAL FEED PIPING SHALL BE INSTALLED WITH 4"-6" MIN. COVER.
 3. THE CONTRACTOR IS ADVISED THAT THE AREA BETWEEN PRIMARY CLARIFIER NOS. 6 AND 7 CONTAINS MISCELLANEOUS DEBRIS AND CONCRETE FILL.
 4. REFER TO WALL PENETRATION DETAIL ON DWG. M-003.

RECORD DRAWING

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 DATE: 9/26/05 PER: Donald F. J.

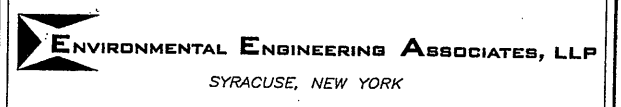
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0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	DFG
2	8/18/05	FOR RECORDS	DFG

In charge of — DFG
 Designed by — C.J.L.
 Drawn by — AK
 Checked by — JCP



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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

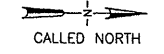
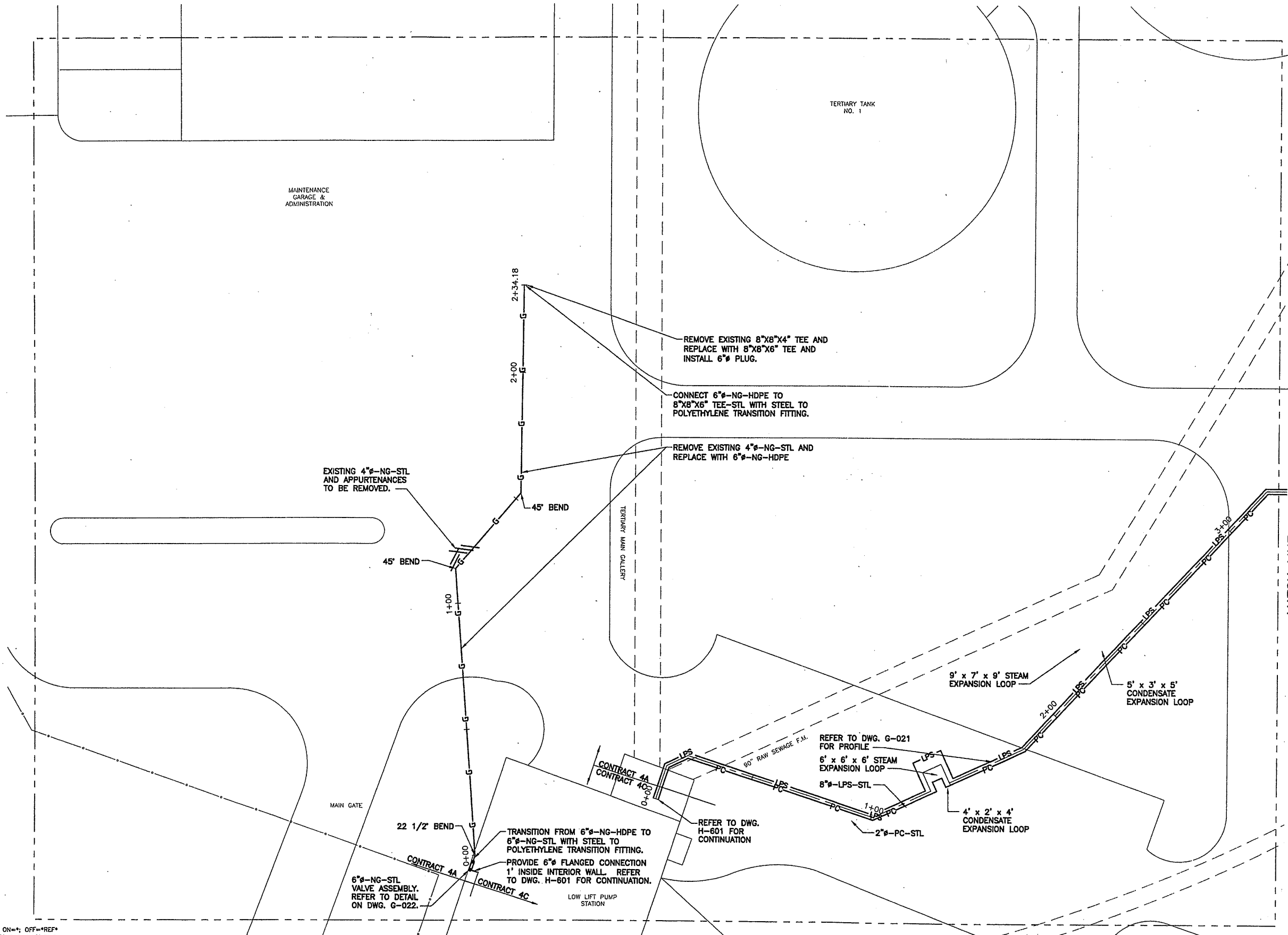
**YARD PIPING
 AREA G**

GENERAL



File Number 00659	Date APRIL 2001	G-016
Signature Donald F. J.		

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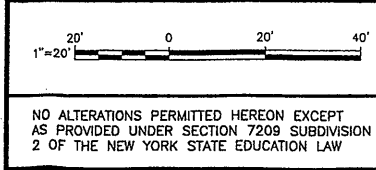
- NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES.
 2. CONTRACTOR SHALL COORDINATE CONNECTION OF 6" NATURAL GAS LINE TO EXISTING 8" NATURAL GAS LINE WITH THE OWNER AND NMPC.

MATCH LINE
DWG G-010

RECORD DRAWING
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2	8/18/05	FOR RECORDS	AK

In charge of: DFG
 Designed by: CJL
 Drawn by: AK
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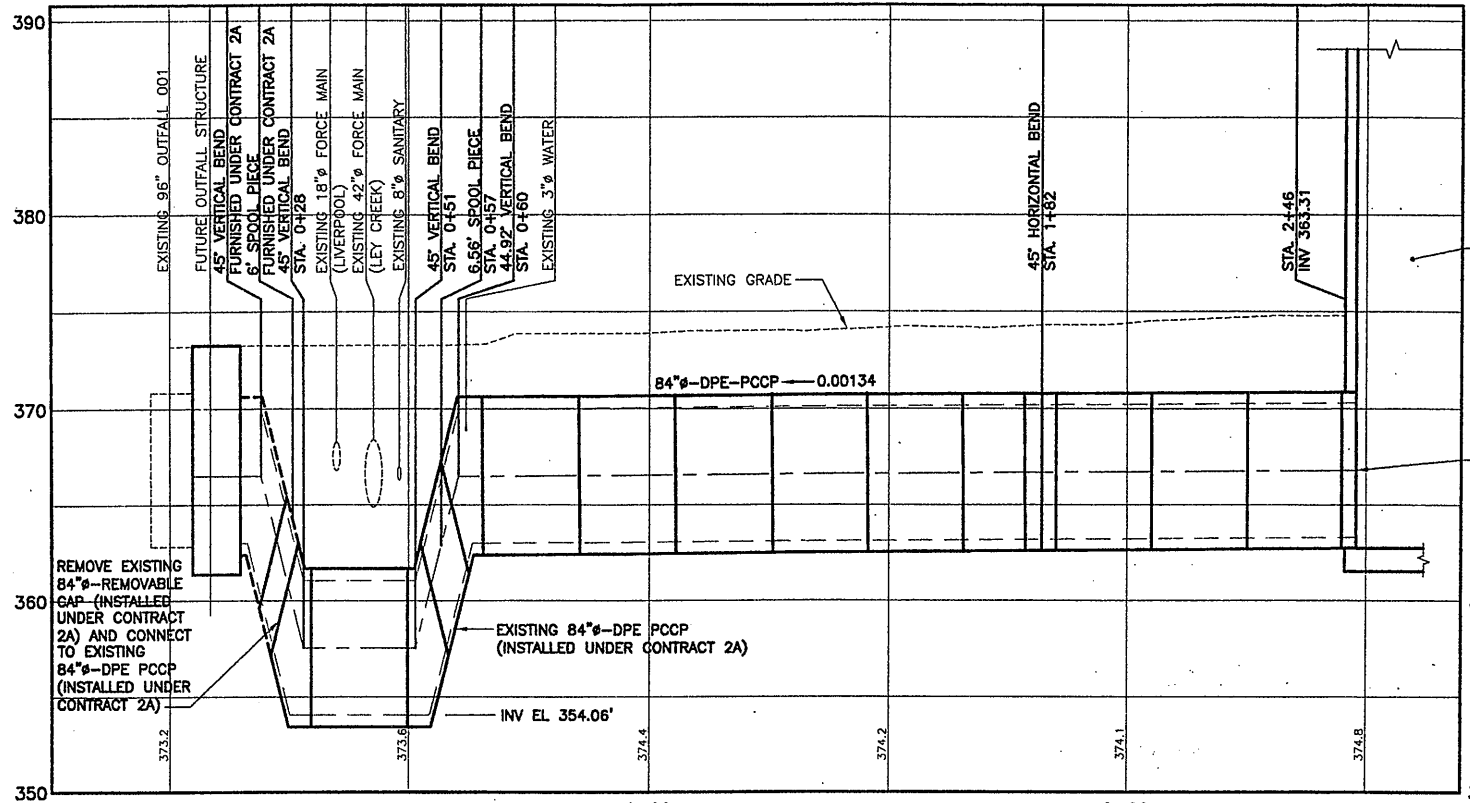
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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

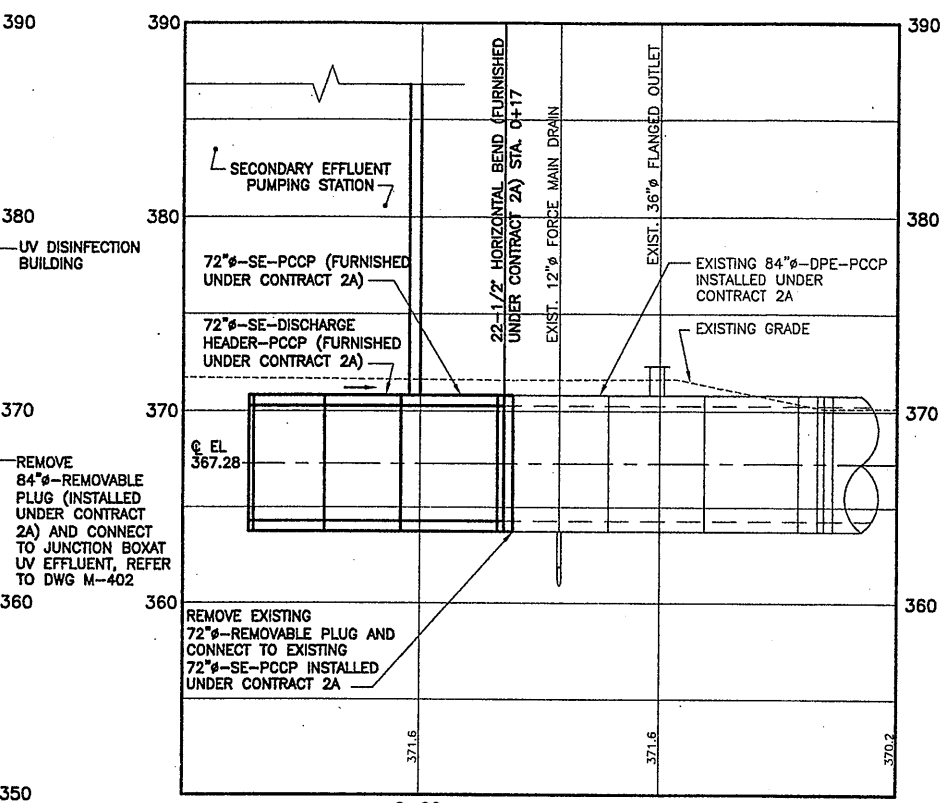
YARD PIPING AREA H
 GENERAL



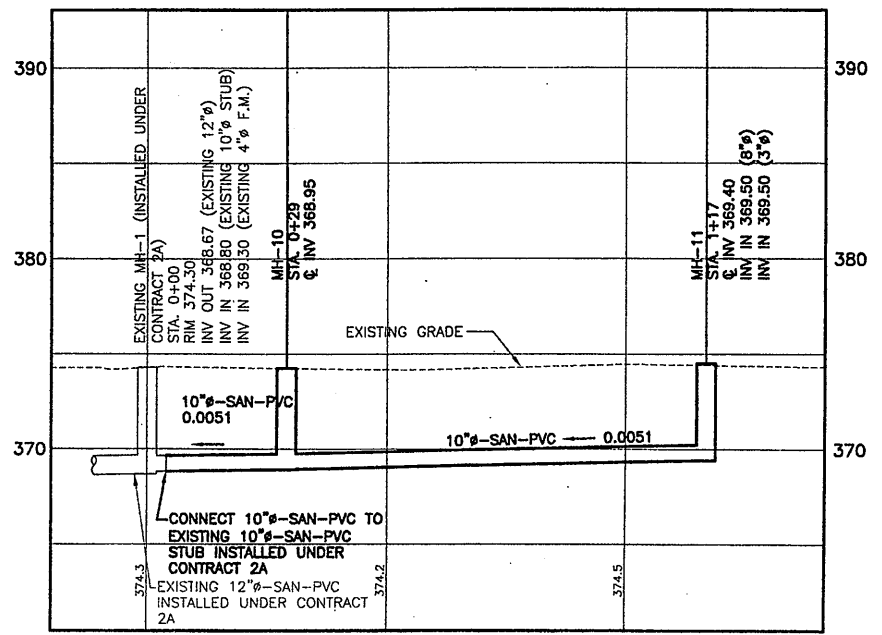
File Number: 00659
 Date: APRIL 2001
 G-017



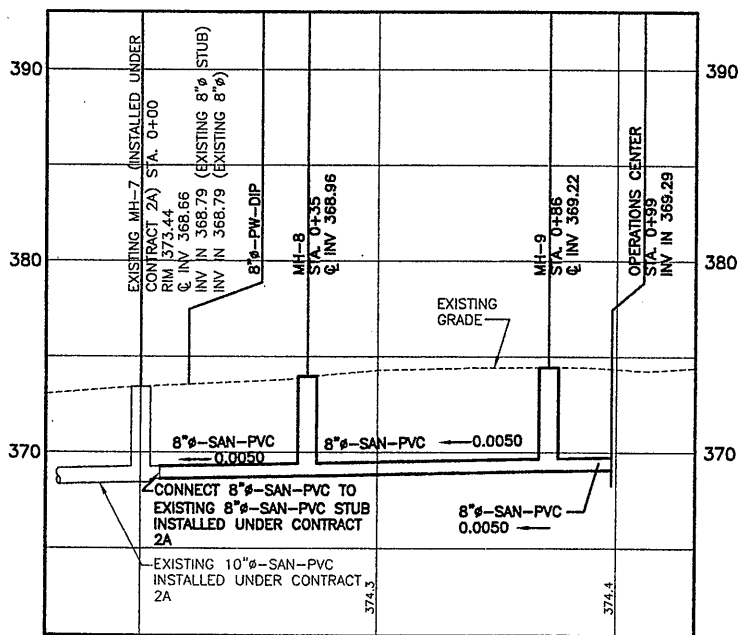
84" DPE-PCCP FROM EXISTING 84" DPE-PCCP TO EXISTING 96" OUTFALL 001 PROFILE
 SCALE: HORIZ. 1"=20'
 VERT. 1"=5'



72" SE-PCCP
 SCALE: HORIZ. 1"=20'
 VERT. 1"=5'



10" SAN-PVC FROM MH-11 TO MH-1 PROFILE
 SCALE: HORIZ. 1"=20'
 VERT. 1"=5'



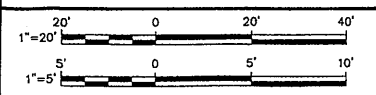
8" SAN-PVC FROM OPERATIONS CENTER TO MH-7 PROFILE
 SCALE: HORIZ. 1"=20'
 VERT. 1"=5'

NOTE:
 1. ALL MANHOLE RIM ELEVATIONS SHALL MATCH FINISHED GRADE. (REFER TO DWG. G-024).

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0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/01	AS BID	DFG
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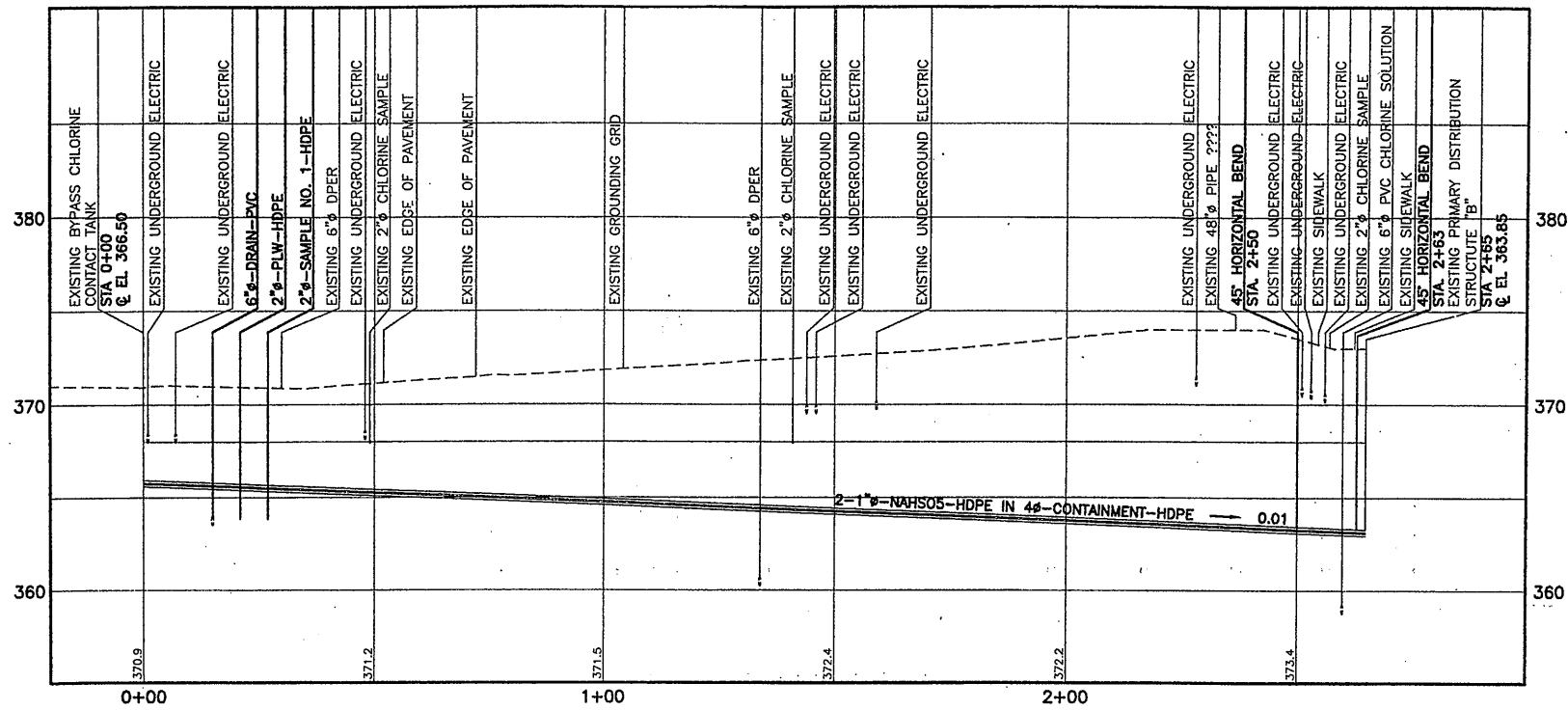
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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

YARD PIPING PROFILES

GENERAL

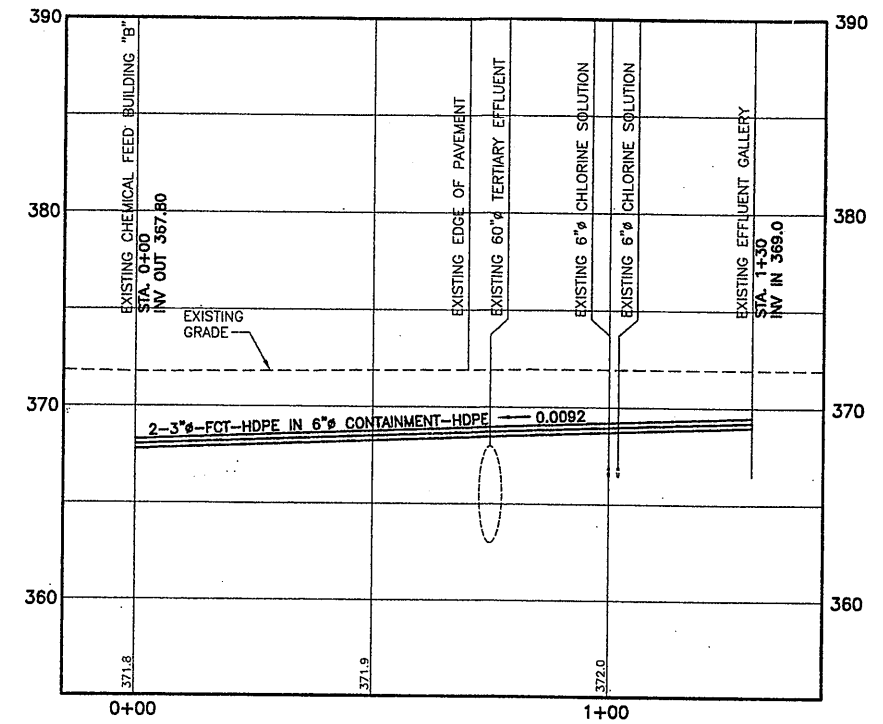


File Number
 00659
 Date
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G-018



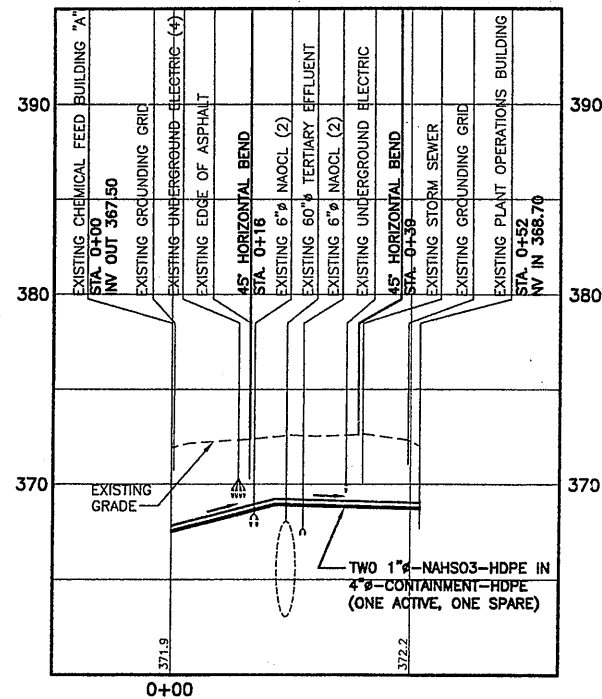
**2-1"Ø-NAHSO3-HDPE IN 4"Ø-CONTAINMENT-HDPE
FROM BYPASS CHLORINE CONTACT TANK TO PRIMARY DISTRIBUTION STRUCTURE "B" PROFILE**

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



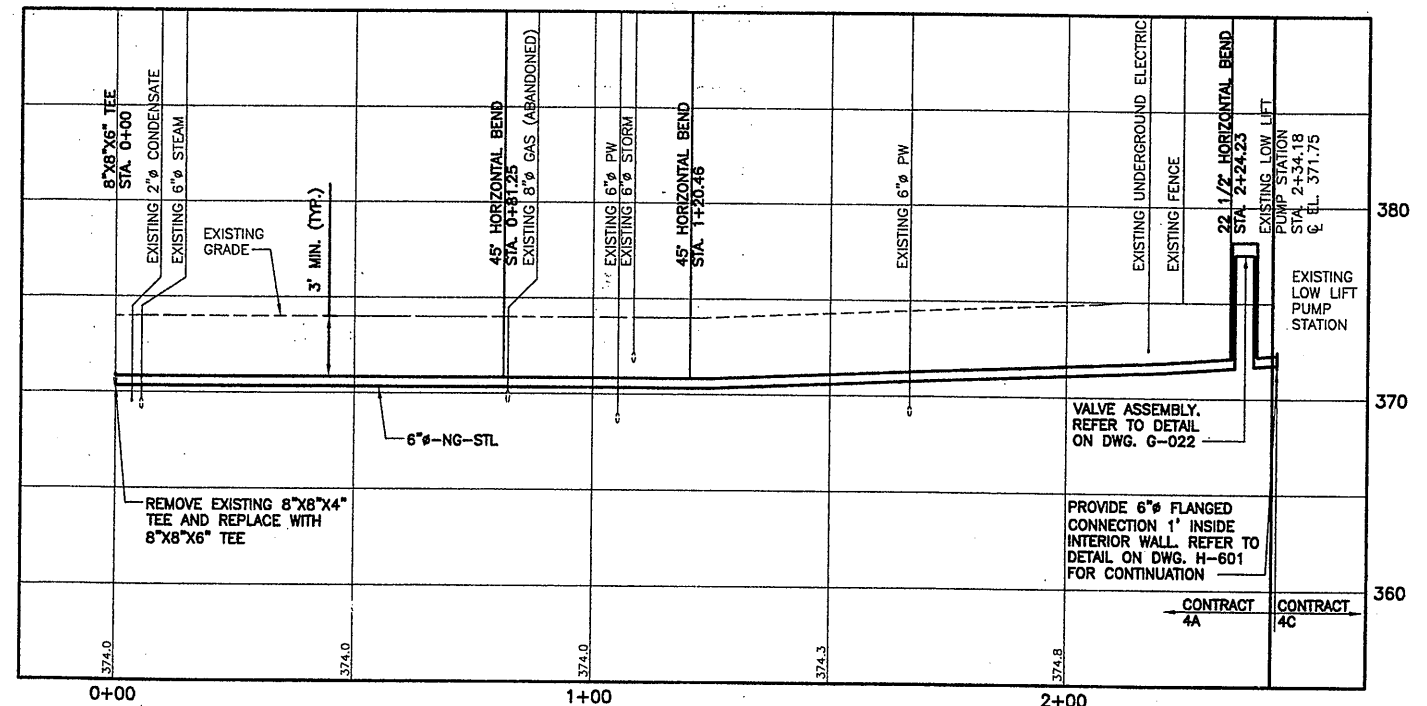
**2-3"Ø-FCT-HDPE IN 6"Ø-CONTAINMENT-HDPE
FROM CHEM. FEED BLDG "B" TO EFFLUENT GALLERY PROFILE**

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



**2-1"Ø-NAHSO3-HDPE IN 4"Ø-CONTAINMENT-HDPE
FROM CHEM. FEED BLDG "A" TO PLANT OPERATION BUILDING PROFILE**

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



6"Ø-NG-STL FROM EXISTING NATURAL GAS SERVICE TO LOW LIFT PUMP STATION PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

RECORD DRAWING

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DATE: 9/26/05 PER: Donald FS

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05503081/RECORD/0659G019.DWG

20'	0	20'	40'
1"=20'	0	5'	10'
1"=5'	0	5'	10'

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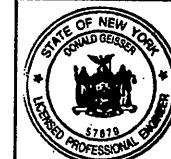
In charge of DFG
Designed by CJL
Drawn by AK
Checked by JCP



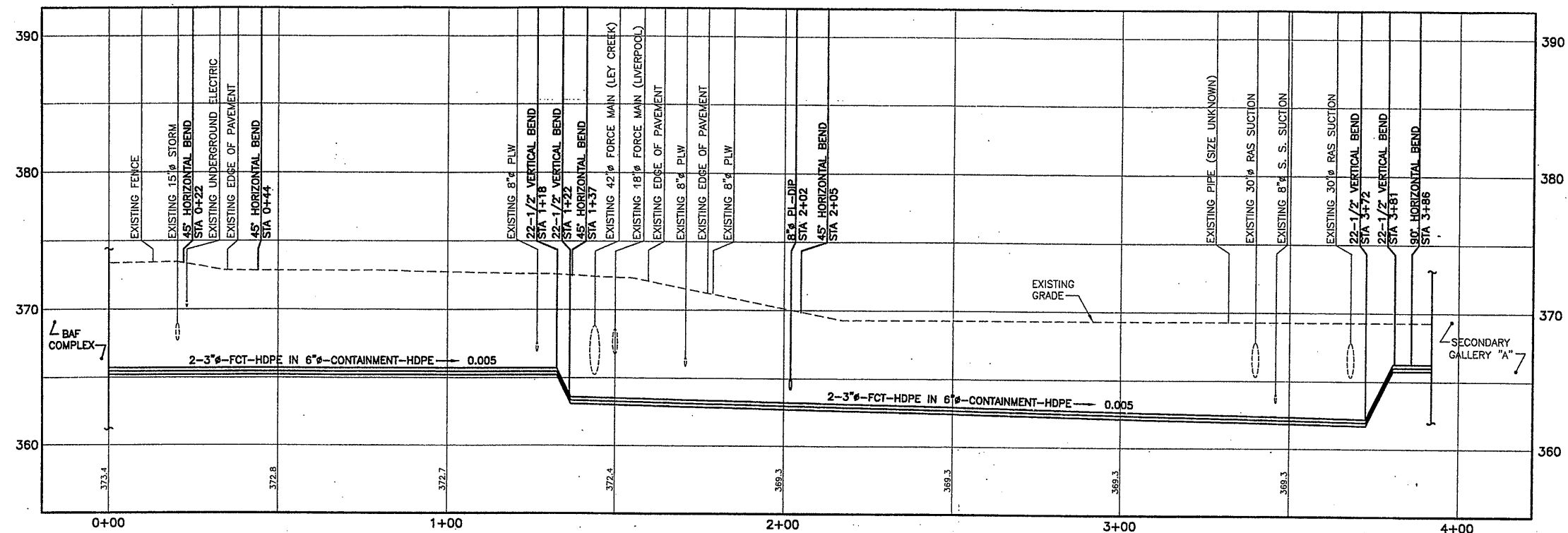
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

YARD PIPING PROFILES

GENERAL

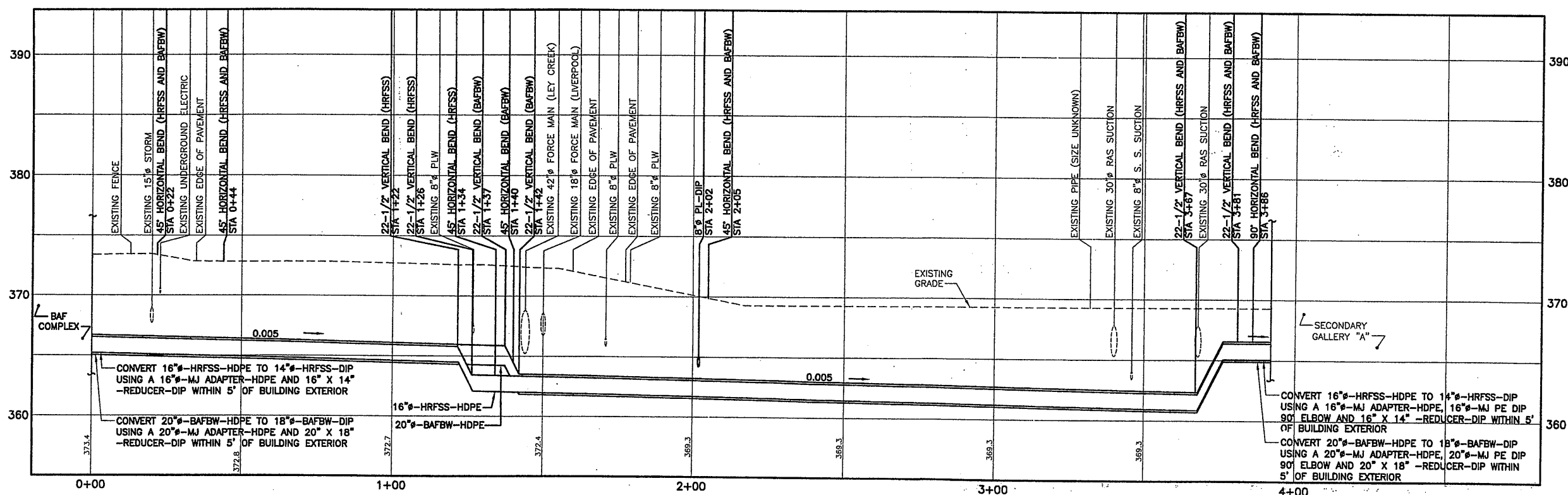


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00659
Date
APRIL 2001
G-019



2-3" FCT-HDPE IN 6" CONTAINMENT-HDPE FROM SECONDARY GALLERY "A" TO BAF COMPLEX PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



16" HRFSS AND 20" BAFBW FROM SECONDARY GALLERY "A" TO BAF COMPLEX PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

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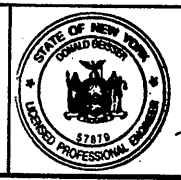
In charge of: DFG
Designed by: CUL
Drawn by: AK
Checked by: JCP

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SYRACUSE, NEW YORK

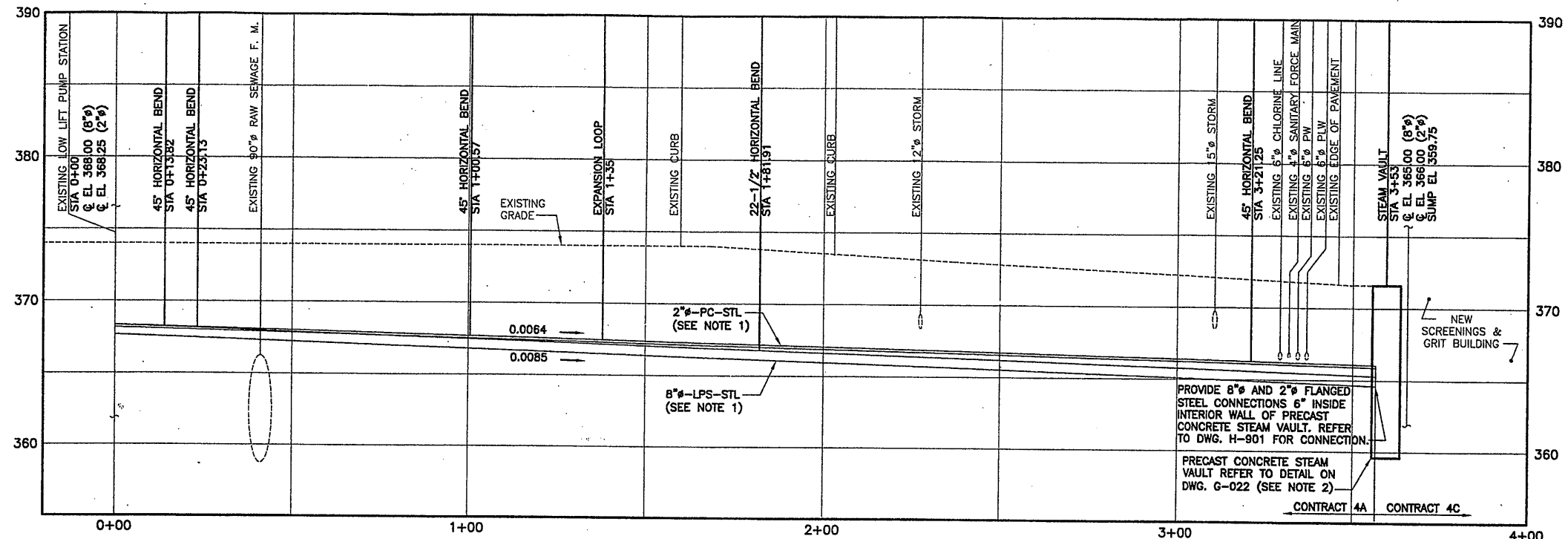
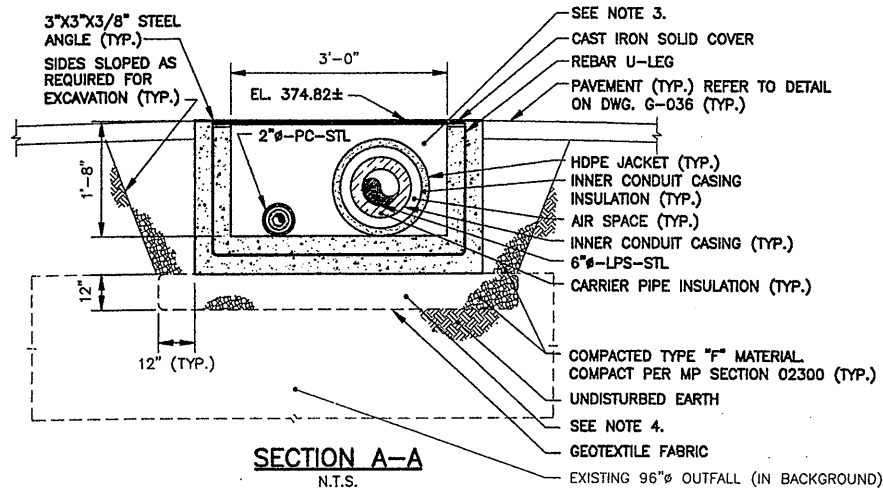
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

YARD PIPING PROFILES

GENERAL

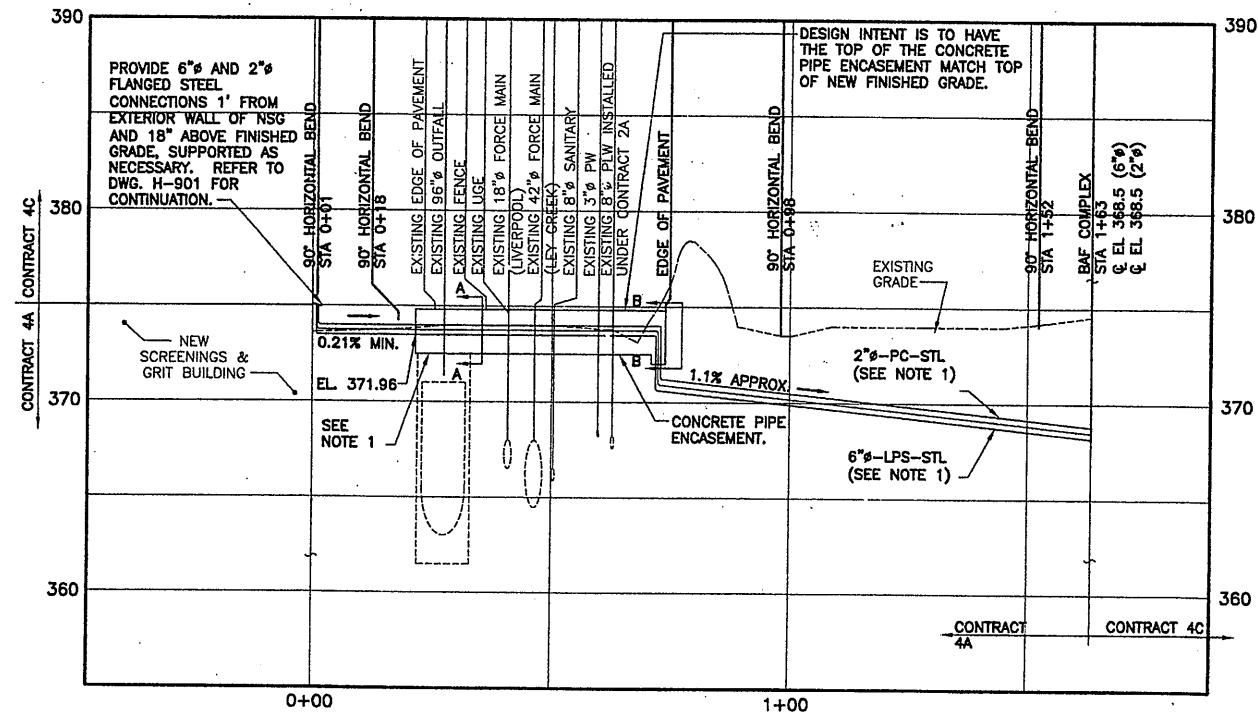
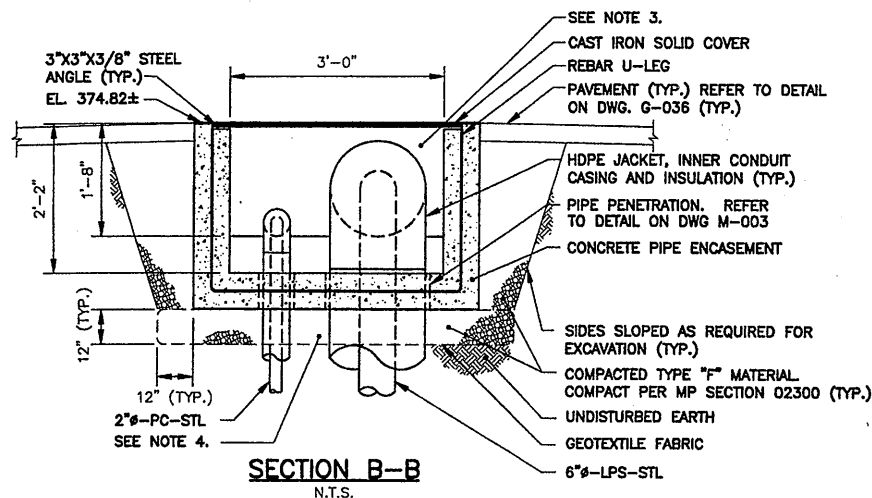


File Number: 00659
Date: APRIL 2001
G-020



8"-LPS-STL AND 2"-LPC-STL FROM EXISTING LOW LIFT PUMP STATION TO STEAM VAULT PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'



6"-LPS-STL AND 2"-PC-STL FROM EXISTING SCREENING & GRIT BUILDING TO BAF COMPLEX PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=5'

NOTE:

- INCORPORATE TOP OF THE 96-INCH OUTFALL INTO THE BASE OF THE CONCRETE ENCASEMENT WITH #8 DOWELS WITH 6-INCH EMBEDMENT, EPOXY GROUTED AT 1-FOOT ON CENTER.

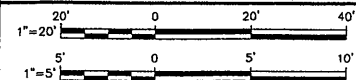
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09/19/05 BBL AK SDL KMD
05503081/RECORD/0659G021.DWG



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Drawn by: AK
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SYRACUSE, NEW YORK

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

YARD PIPING PROFILES AND SECTIONS

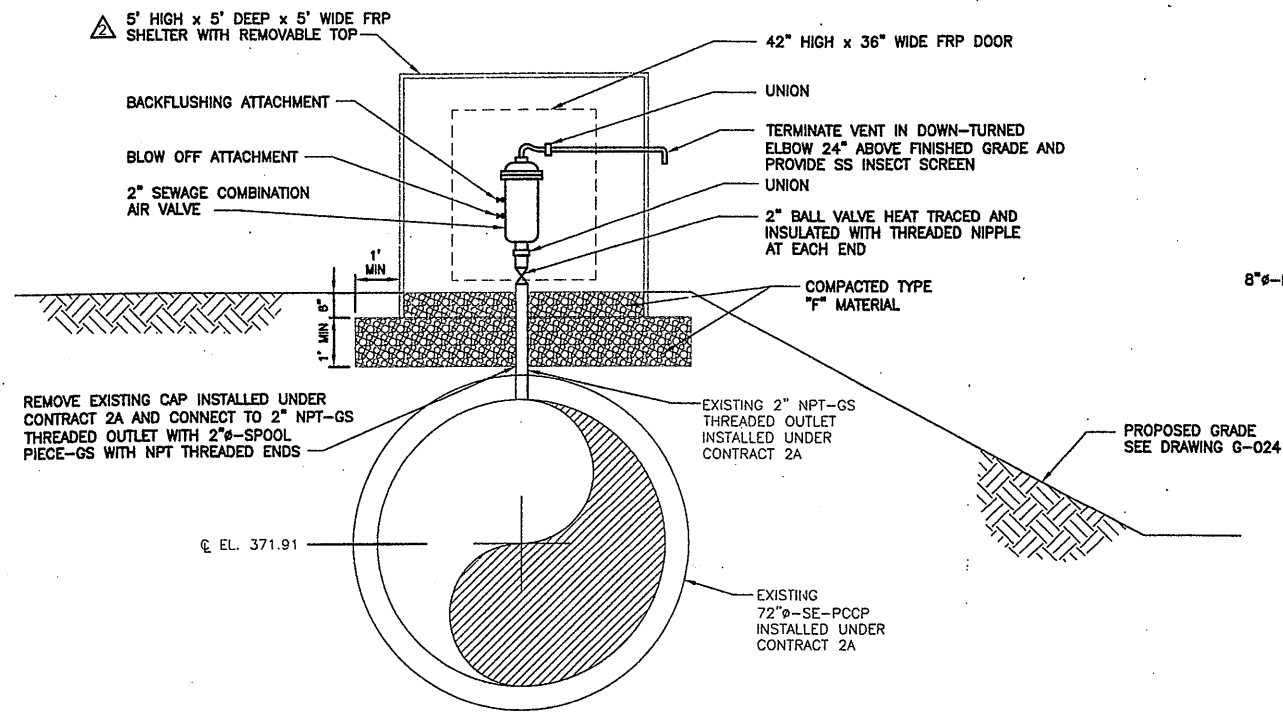
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File Number
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Date
APRIL 2001

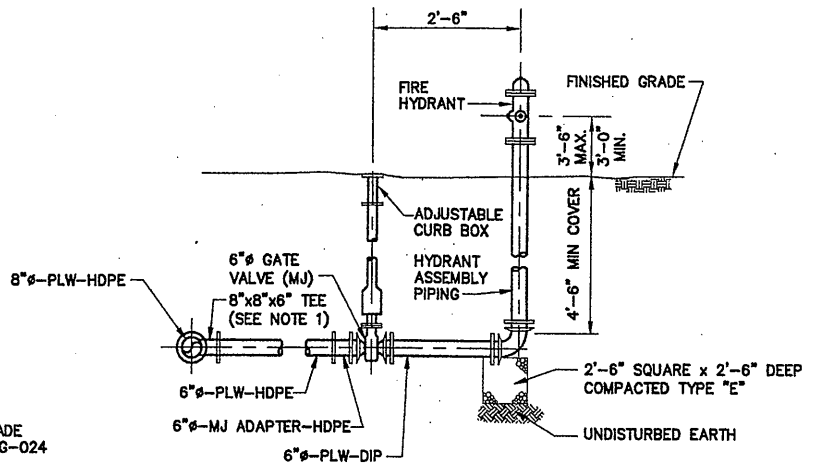
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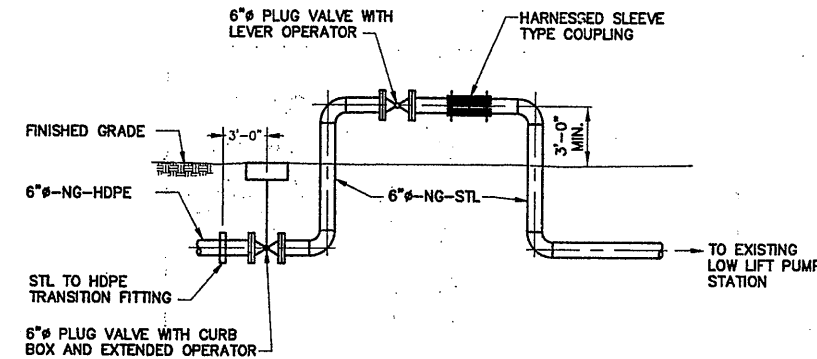
NOTE:
 1. ENTIRE AIR SEWAGE COMBINATION AIR VALVE ASSEMBLY, INCLUDING 2\"/>

SEWAGE COMBINATION AIR VALVE DETAIL
 NOT TO SCALE

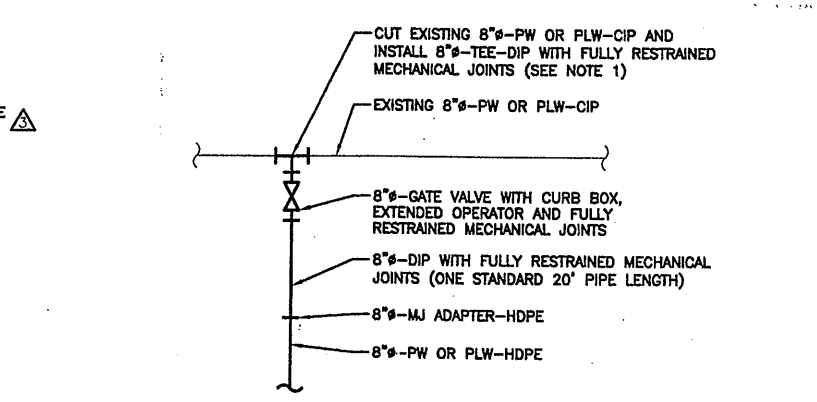


NOTES
 1. CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING A HDPE TEE FOR LONG LATERAL RUNS (GREATER THAN 20 FEET) OR A DUCTILE IRON TEE FOR SHORT RUNS (LESS THAN 20 FEET). HDPE TEES SHALL BE BUTT-FUSED TO HDPE PIPE AND DUCTILE IRON TEES SHALL BE CONNECTED TO HDPE PIPE ON ALL SIDES WITH THE USE OF HDPE MJ ADAPTERS.
 2. ALL MECHANICAL JOINT CONNECTIONS SHALL BE OF THE RESTRAINED TYPE.

FIRE HYDRANT DETAIL
 NOT TO SCALE

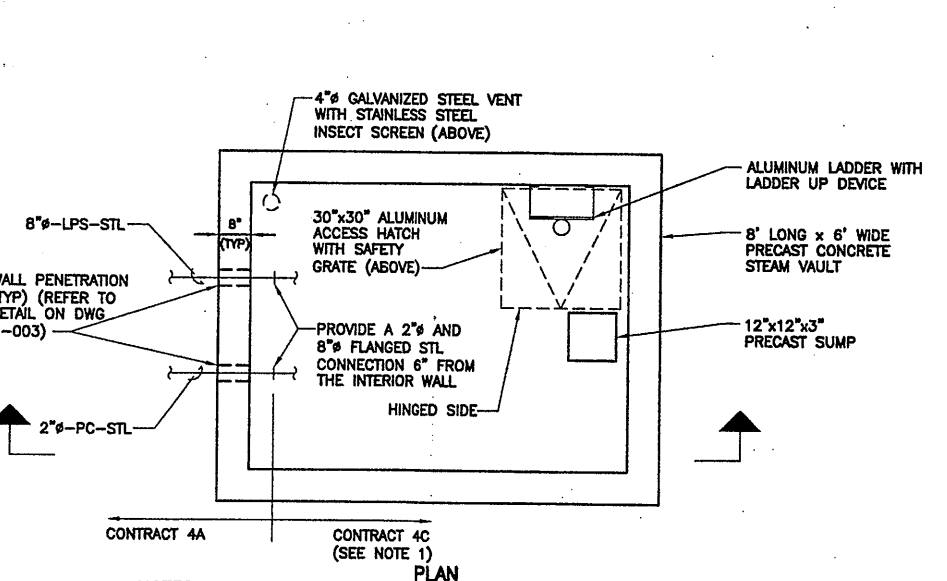
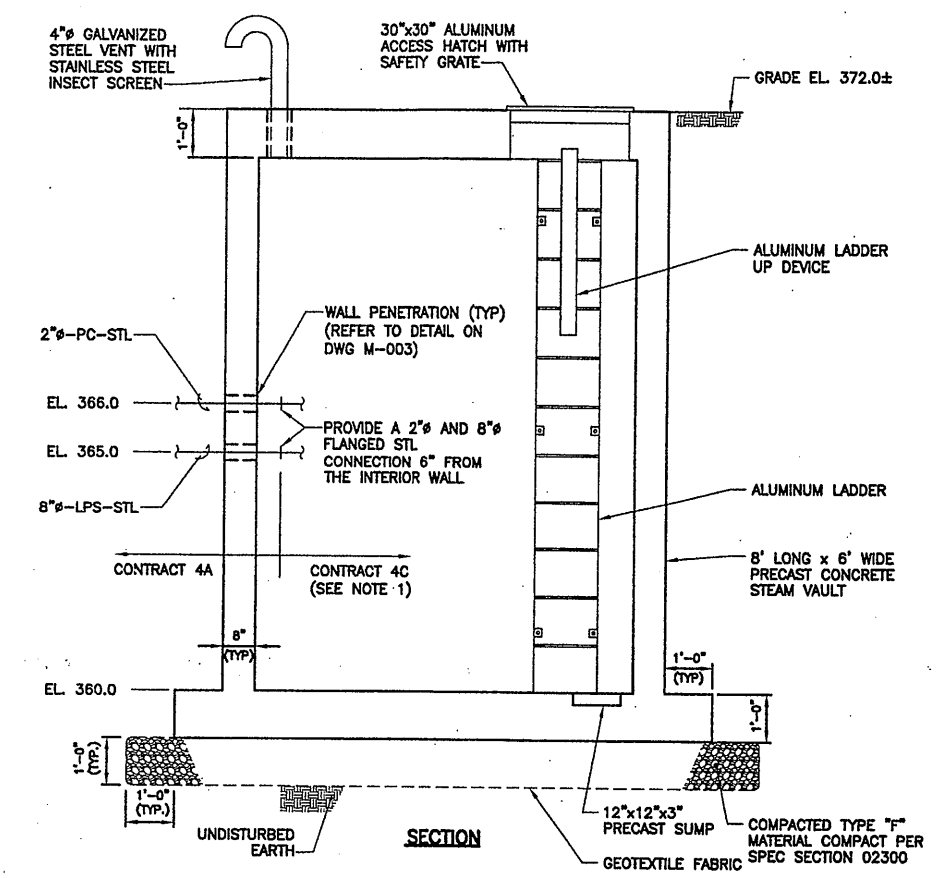


NATURAL GAS LINE VALVE ASSEMBLY DETAIL
 NOT TO SCALE



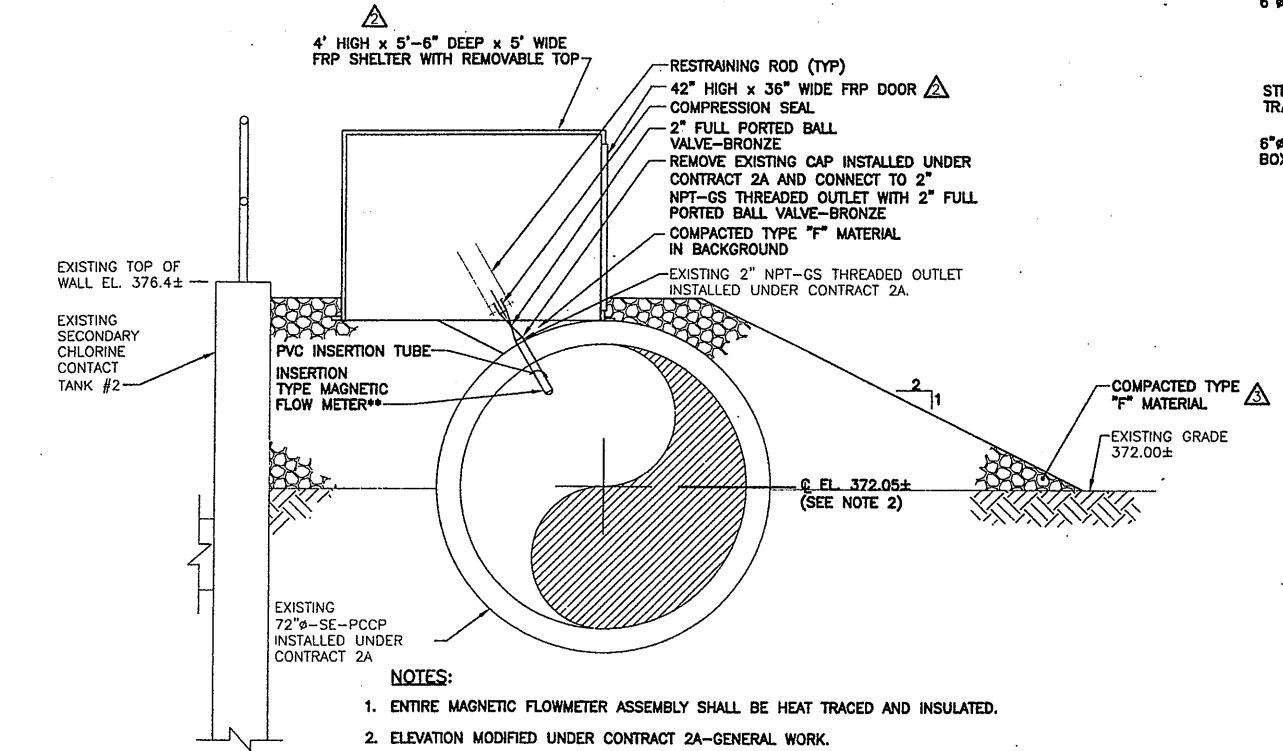
NOTE
 1. REFER TO YARD PIPING PLANS FOR ACTUAL LOCATIONS OF CONNECTIONS AND CONFIGURATIONS.

WATER MAIN CONNECTION DETAIL
 NOT TO SCALE



NOTES:
 1. ALL INTERIOR PIPING, VALVES AND MECHANICAL EQUIPMENT BEYOND THE FLANGED CONNECTIONS SHALL BE PROVIDED AND INSTALLED BY CONTRACT 4C (REFER TO SCHEMATIC ON DWG H-801)
 2. ACTUAL OUTSIDE DIAMETER OF 2\"/>

STEAM VAULT DETAIL
 SCALE: 1/2\"/>



INSERTION TYPE MAGNETIC FLOWMETER DETAIL
 SCALE: 1/2\"/>

Layer: ON=*, OFF=REF
 09/19/05 BBL AK DJP KMD
 05503081/RECORD/06596022.DWG

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DR
1	7/3/01	AS BID	DF
2	5/13/03	MODIFICATION NO. 4A-061	DF
3	5/13/03	MODIFICATION NO. 4A-067	DF
4	5/28/03	REVISED FOR MODIFICATION 4A-164	DF
5	8/18/05	FOR RECORDS	DF

In charge of DFG
 Designed by CJL
 Drawn by AK
 Checked by JCP

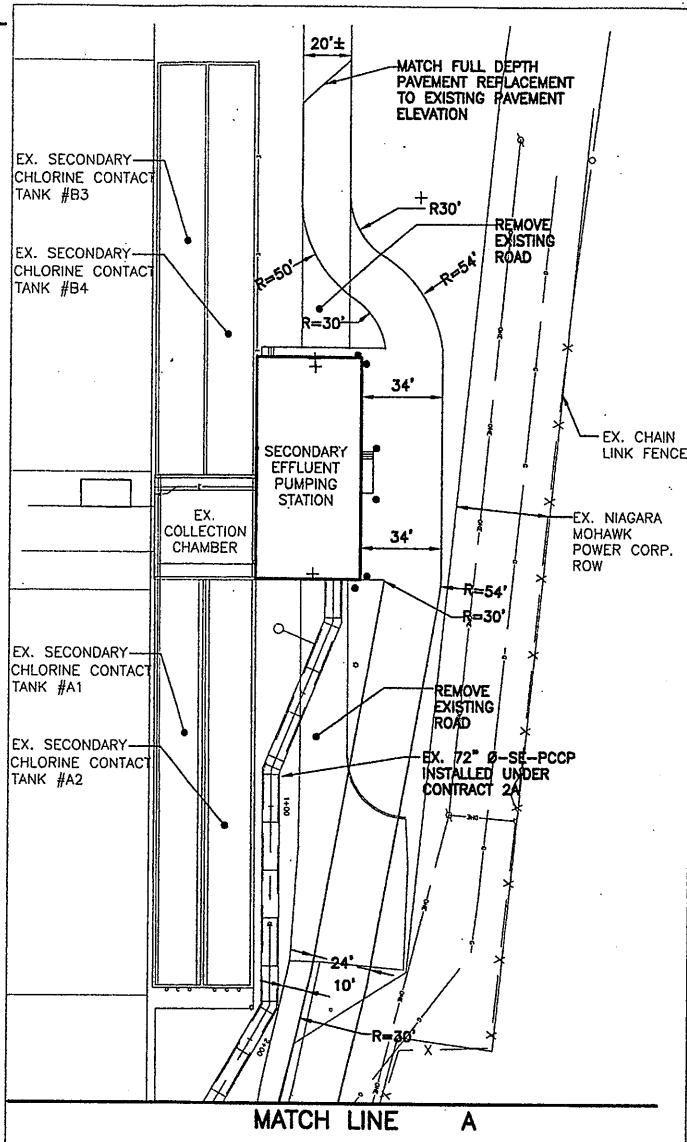
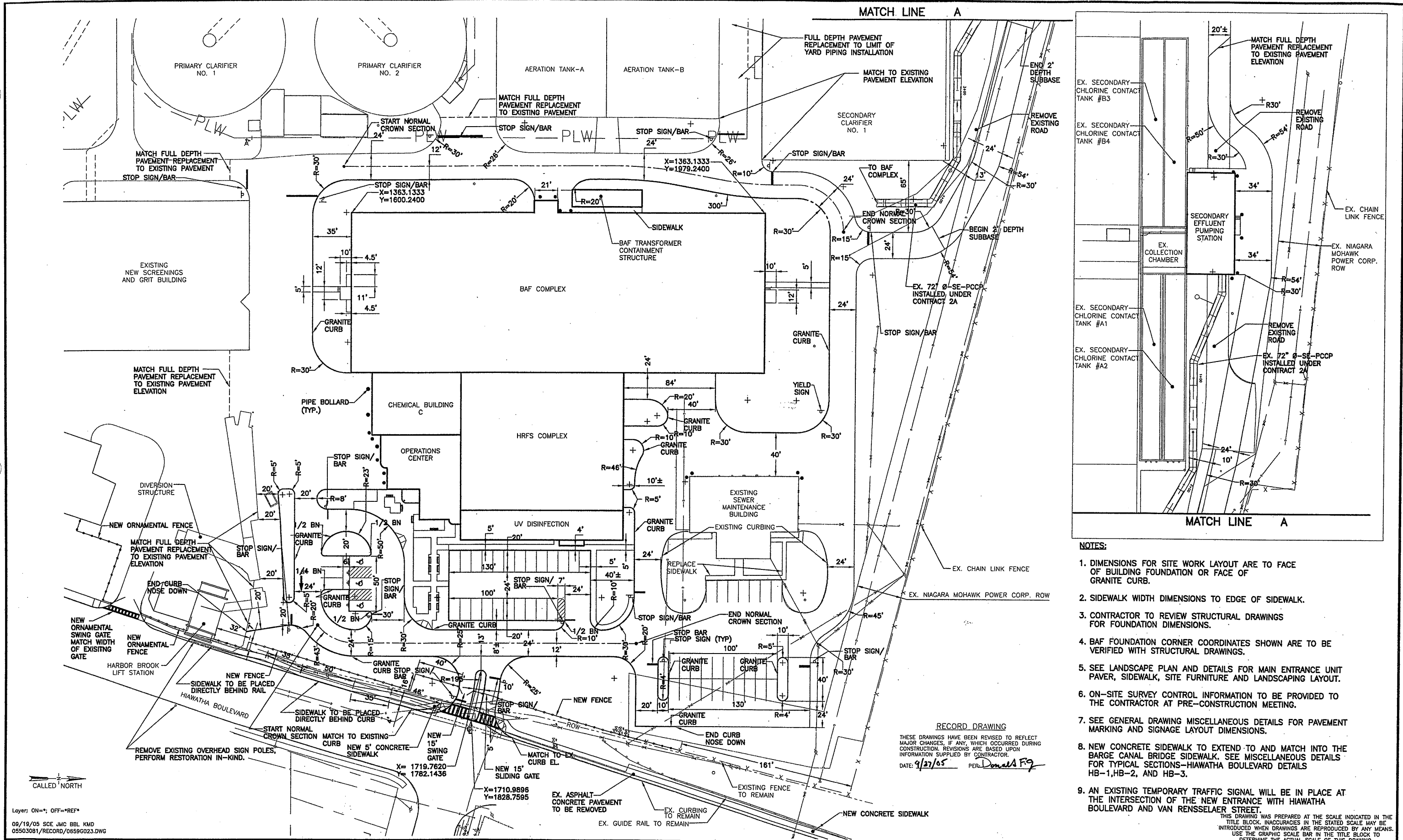
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

YARD PIPING DETAILS
 GENERAL

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

File Number: 00659
 Date: MAY 2003
 G-022



- NOTES:**
1. DIMENSIONS FOR SITE WORK LAYOUT ARE TO FACE OF BUILDING FOUNDATION OR FACE OF GRANITE CURB.
 2. SIDEWALK WIDTH DIMENSIONS TO EDGE OF SIDEWALK.
 3. CONTRACTOR TO REVIEW STRUCTURAL DRAWINGS FOR FOUNDATION DIMENSIONS.
 4. BAF FOUNDATION CORNER COORDINATES SHOWN ARE TO BE VERIFIED WITH STRUCTURAL DRAWINGS.
 5. SEE LANDSCAPE PLAN AND DETAILS FOR MAIN ENTRANCE UNIT PAVER, SIDEWALK, SITE FURNITURE AND LANDSCAPING LAYOUT.
 6. ON-SITE SURVEY CONTROL INFORMATION TO BE PROVIDED TO THE CONTRACTOR AT PRE-CONSTRUCTION MEETING.
 7. SEE GENERAL DRAWING MISCELLANEOUS DETAILS FOR PAVEMENT MARKING AND SIGNAGE LAYOUT DIMENSIONS.
 8. NEW CONCRETE SIDEWALK TO EXTEND TO AND MATCH INTO THE BARGE CANAL BRIDGE SIDEWALK. SEE MISCELLANEOUS DETAILS FOR TYPICAL SECTIONS-HIAWATHA BOULEVARD DETAILS HB-1, HB-2, AND HB-3.
 9. AN EXISTING TEMPORARY TRAFFIC SIGNAL WILL BE IN PLACE AT THE INTERSECTION OF THE NEW ENTRANCE WITH HIAWATHA BOULEVARD AND VAN RENSSELAER STREET.

RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/27/05 PER: Donald F. J.

Layer: ON=*; OFF=*REF*
 09/19/05 SCE JMC BBL KMD
 05503081/RECORD/0559023.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFJ
1	6/25/01	AS BID	DFJ
2	5/18/04	REMOVED PARKING IN NORTH EAST CORNER, REVISED CURB AROUND N SIDE HRFS COMPLEX, REM. SIDEWALK, ADDED SIDEWALK & STRIPING	JMC
3	8/24/04	REV HARBOR BROOK PUMP STATION SIDEWALK	JMC
4	8/25/04	REV FENCE LAYOUT	TKL
5	8/18/05	FOR RECORD	DFJ

In charge of: RJS
 Designed by: AMP
 Drawn by: AMP
 Checked by: VDM

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 SYRACUSE, NEW YORK

SHUMAKER
 Consulting Engineering & Land Surveying, P.C.
 320 North Jensen Road
 Vestal, NY 13850-2150

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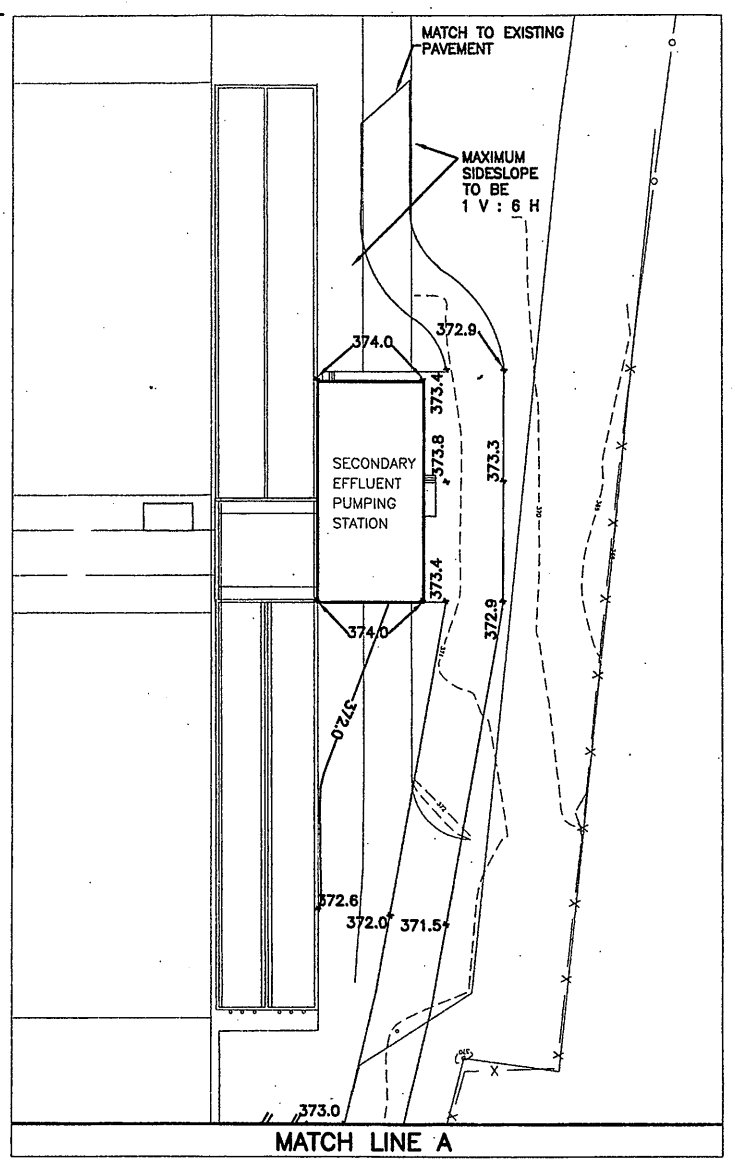
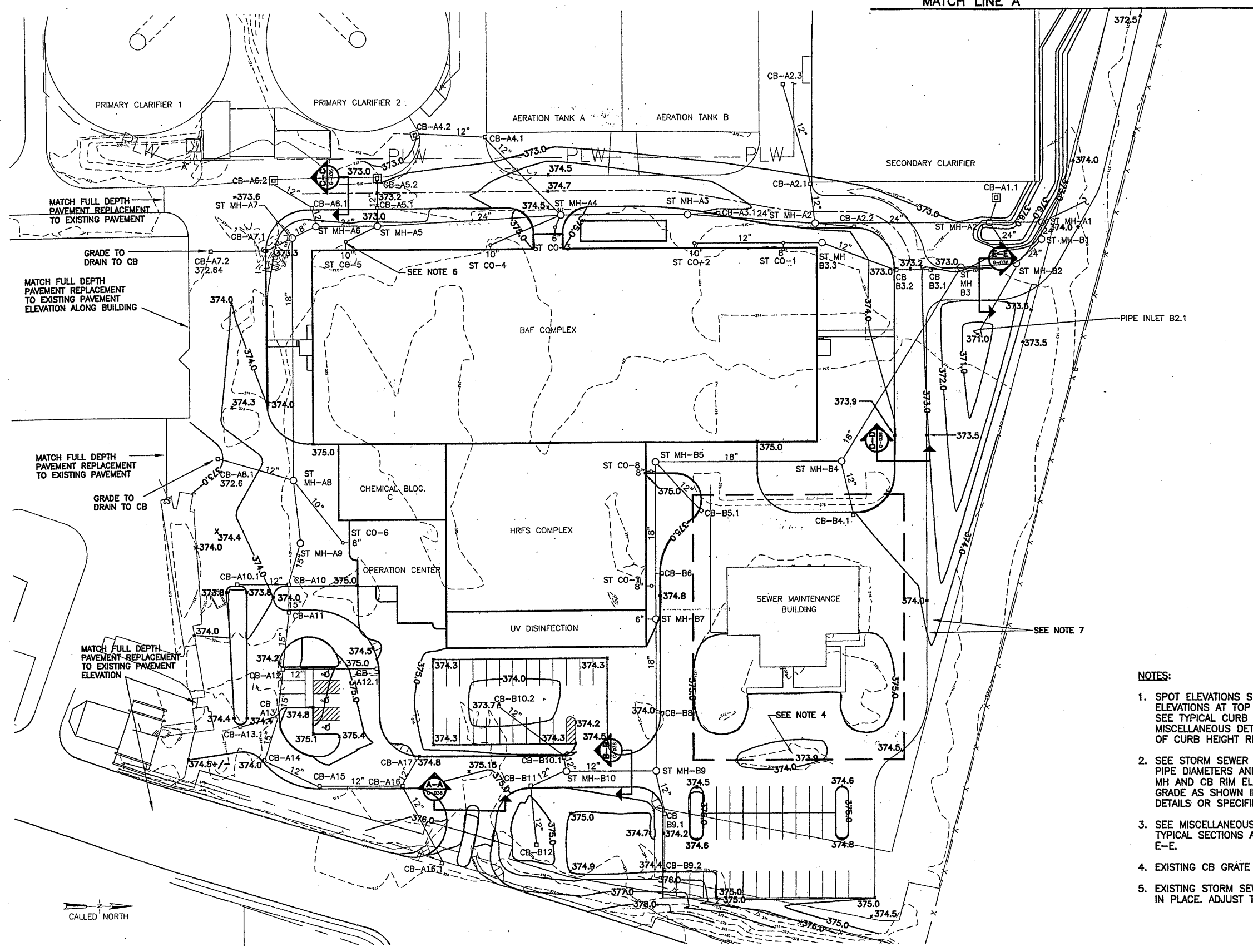
ROADS-LAYOUT PLAN

GENERAL

File Number	00659
Date	APRIL 2001
	G-023

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MATCH LINE A



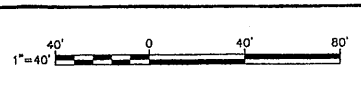
- NOTES:**
- SPOT ELEVATIONS SHOWN ARE CONTROL ELEVATIONS AT TOP OF PROPOSED PAVEMENT. SEE TYPICAL CURB DETAILS ON MISCELLANEOUS DETAIL DRAWINGS FOR TOP OF CURB HEIGHT RELATIVE TO PAVEMENT.
 - SEE STORM SEWER PIPING PROFILES FOR PIPE DIAMETERS AND INVERT ELEVATIONS. MH AND CB RIM ELEVATIONS TO MATCH FINISH GRADE AS SHOWN IN THE MISCELLANEOUS DETAILS OR SPECIFIED BY NOTE.
 - SEE MISCELLANEOUS DETAIL DRAWINGS FOR TYPICAL SECTIONS A-A, B-B, C-C, D-D AND E-E.
 - EXISTING CB GRATE TO BE SET AT 373.9.
 - EXISTING STORM SEWER MANHOLE TO REMAIN IN PLACE. ADJUST TO FINISH GRADE.
 - ROOF DRAINAGE SYSTEM OUTLET AT ST CO-6 IS AT INV. ELEV. 371.5 ±. ALL REMAINING ROOF DRAINAGE SYSTEM OUTLETS ARE AT INV. ELEV. 370.3 SEE DRAWING NOS. P-201,P-301 AND P-500. PIPE SIZE AT BUILDING CONNECTION IS SHOWN ON THIS DRAWING. PLUMBING CONTRACTOR TO EXTEND PIPING 5 FT. FROM FOUNDATION. SITE CONTRACTOR TO MAKE CONNECTION AND INSTALL CLEANOUT. SEE STORM SEWER PIPING PROFILES FOR STORM SEWER PIPE SIZES.
 - EXISTING STORM SEWER TO REMAIN IN SERVICE. PIPE TO BE INSPECTED PRIOR TO CONSTRUCTION. ON COMPLETION OF ALL SITE WORK, PIPE TO BE INSPECTED AND CLEANED.

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/27/05 PER: [Signature]

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 05603081/RECORD/0656G024.DWG



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	RJS
1	6/25/01	AS BID	SEG
2	8/18/05	FOR RECORDS	VDM

In charge of: RJS
 Designed by: SEG
 Drawn by: SEG
 Checked by: VDM

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 SYRACUSE, NEW YORK



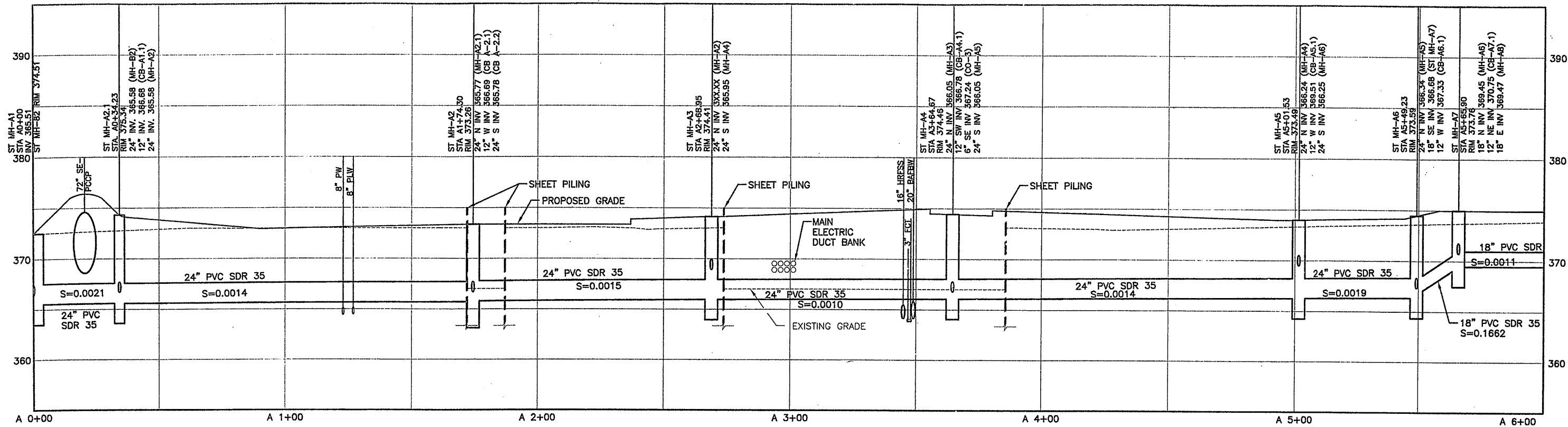
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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

GRADING AND DRAINAGE PLAN

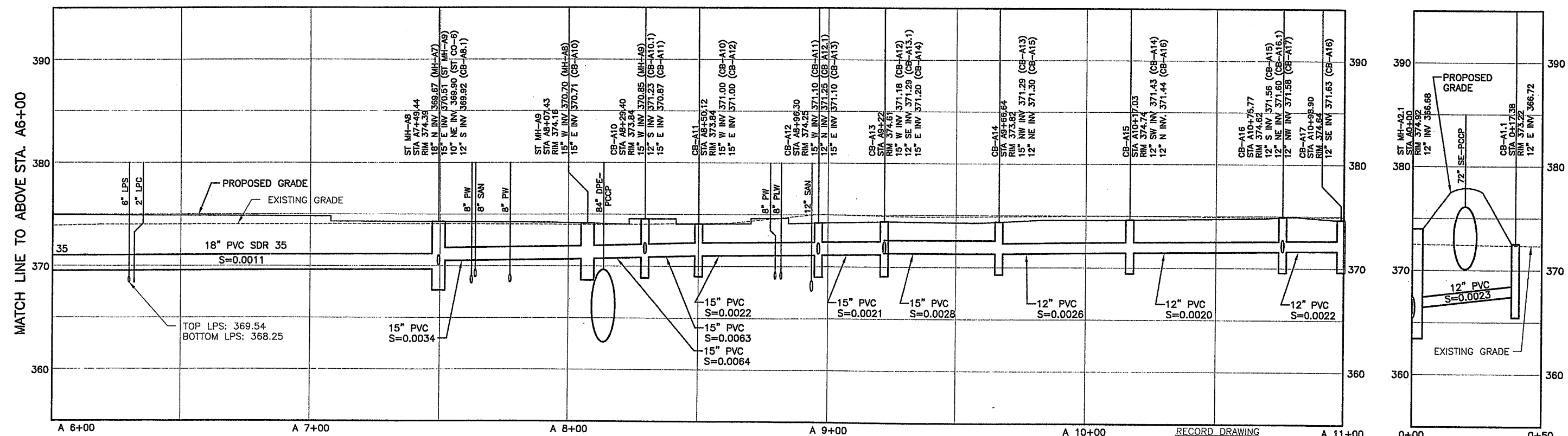
GENERAL

File Number	00659
Date	APRIL 2001
	G-024

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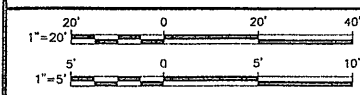


NOTES: 1. ALL PIPE INVERT ELEVATIONS ARE AT THE CENTERLINE OF THE STRUCTURES.
 2. SEE GRADING AND DRAINAGE PLAN, DWG. G-024, FOR STORM SEWER LAYOUT.



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09/19/05 SCE-MHW BBL-KMD
 05503081/RECORD/0659CD25.DWG



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DR
1	7/3/01	AS BID	DR
2	8/18/05	FOR RECORDS	DR

In charge of RJS
 Designed by MHW
 Drawn by MHW
 Checked by VDM

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 Consulting Engineering & Land Surveying, P.C.
 320 North Jensen Road
 Vestal, NY 13850-2150

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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

STORM SEWER PIPING PROFILES

GENERAL

File Number
 00659

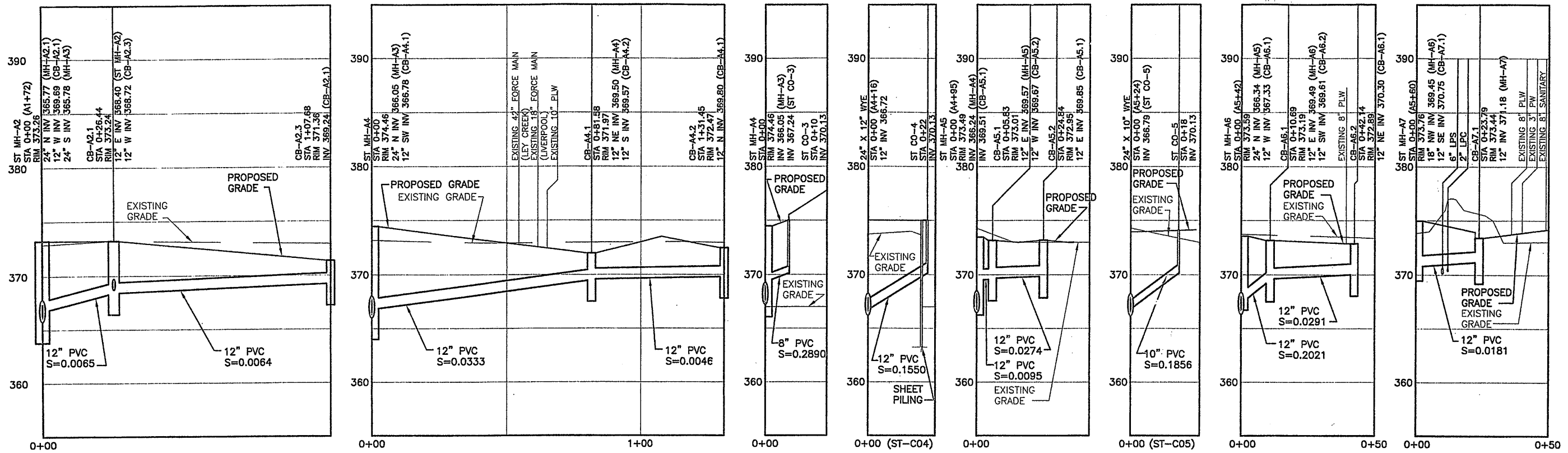
Date
 APRIL 2001

G-025

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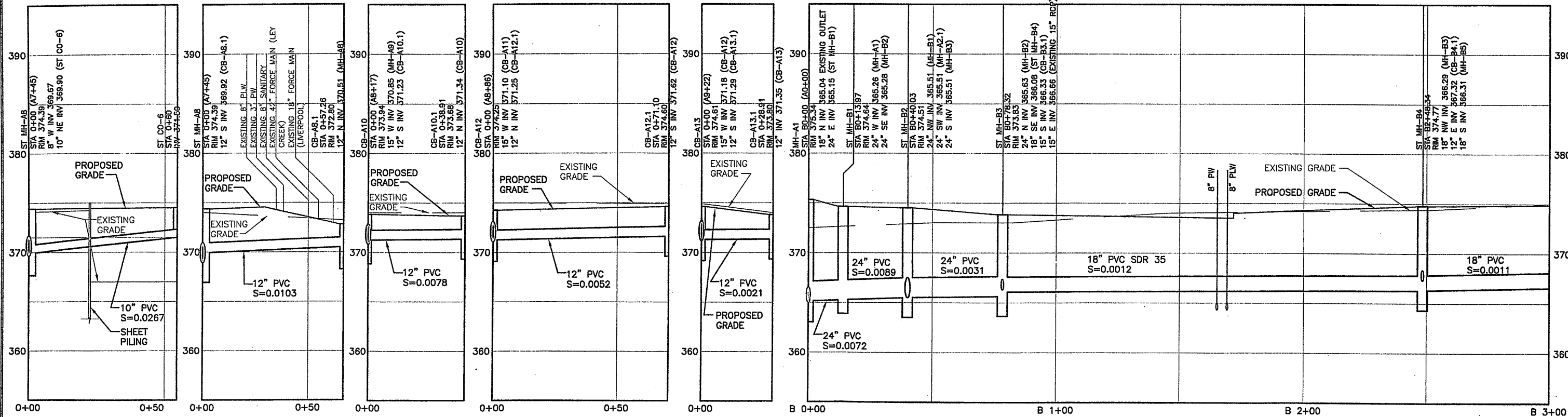
DATE: 9/27/05 PER: Donald F.P.

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NOTES: 1. ALL PIPE INVERT ELEVATIONS ARE AT THE CENTERLINE OF THE STRUCTURES.
 2. SEE GRADING AND DRAINAGE PLAN, DWG. G-024, FOR STORM SEWER LAYOUT.

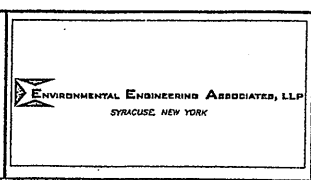
RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 9/27/05 PER: Donald F. J.



Layer: ON=* OFF=*REF*
 09/19/05 SCE MHW BBL KMD
 05503081/RECORD/0659G026.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DR
1	6/25/01	AS BID	DR
2	8/18/05	FOR RECORDS	DR

In charge of: RJS
 Designed by: MHW
 Drawn by: MHW
 Checked by: VDM



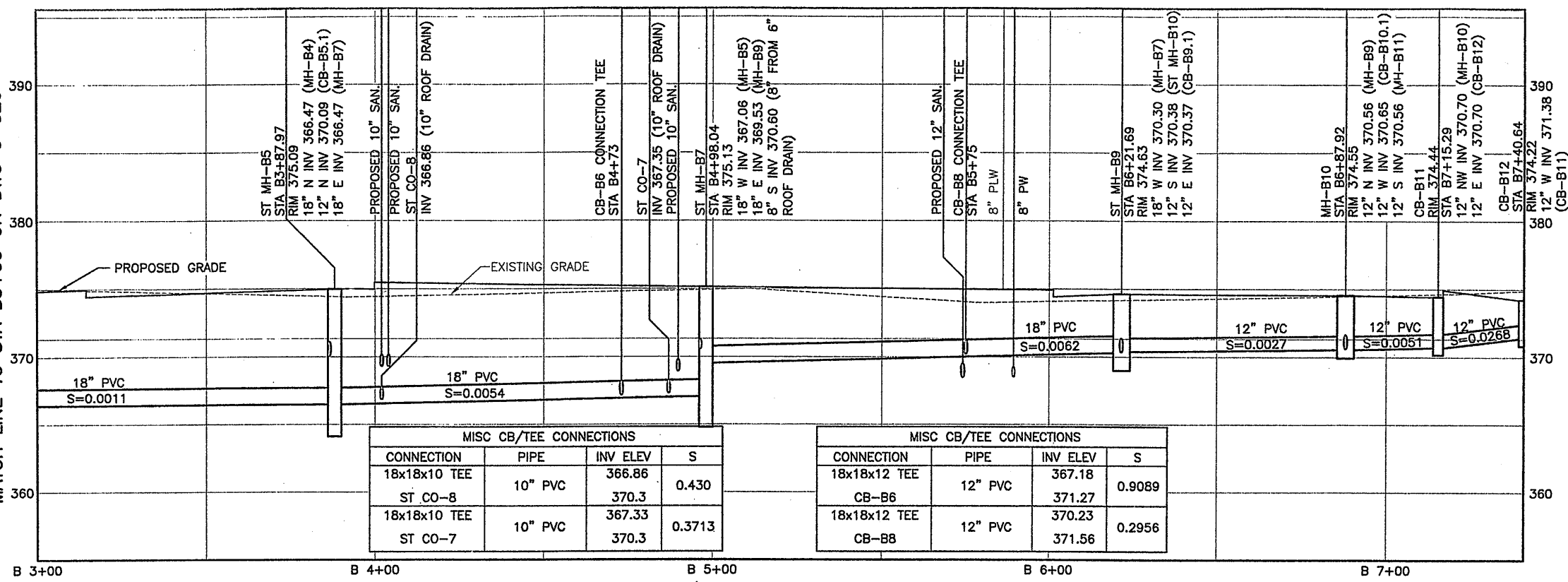
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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
STORM SEWER PIPING PROFILES
 GENERAL

File Number 00659	Date APRIL 2001	G-026
Date APRIL 2001		

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MATCH LINE TO STA B3+00 ON DWG G-027

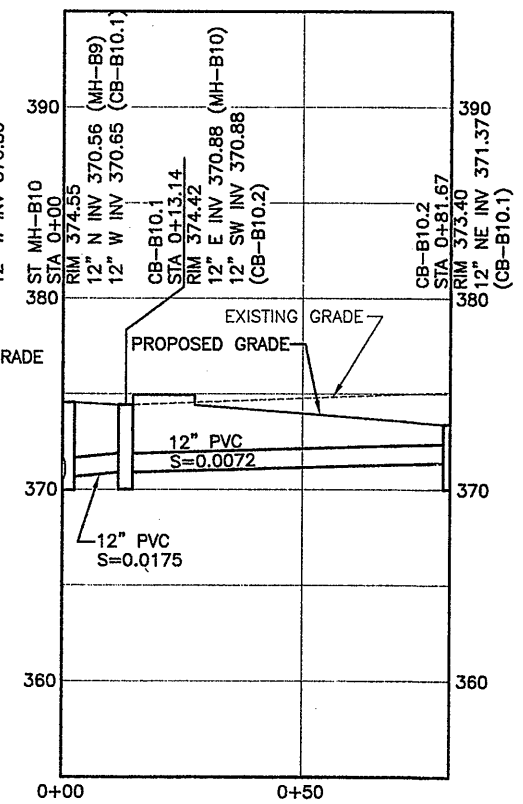
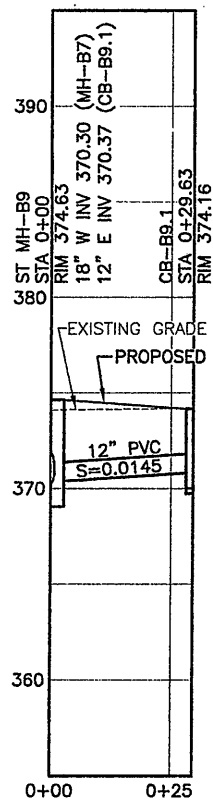
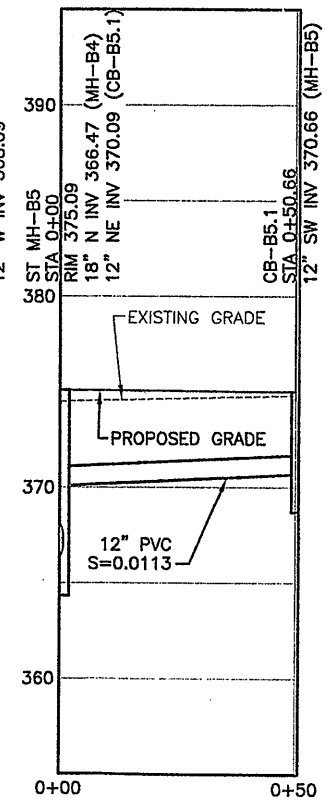
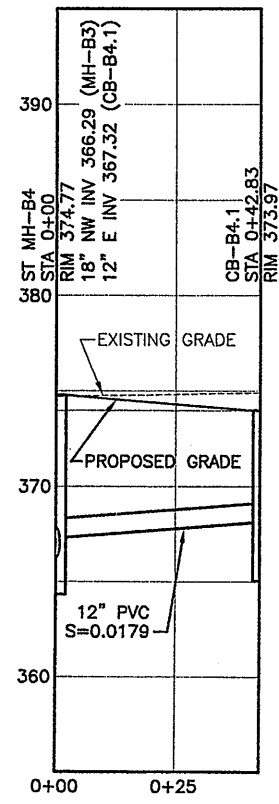
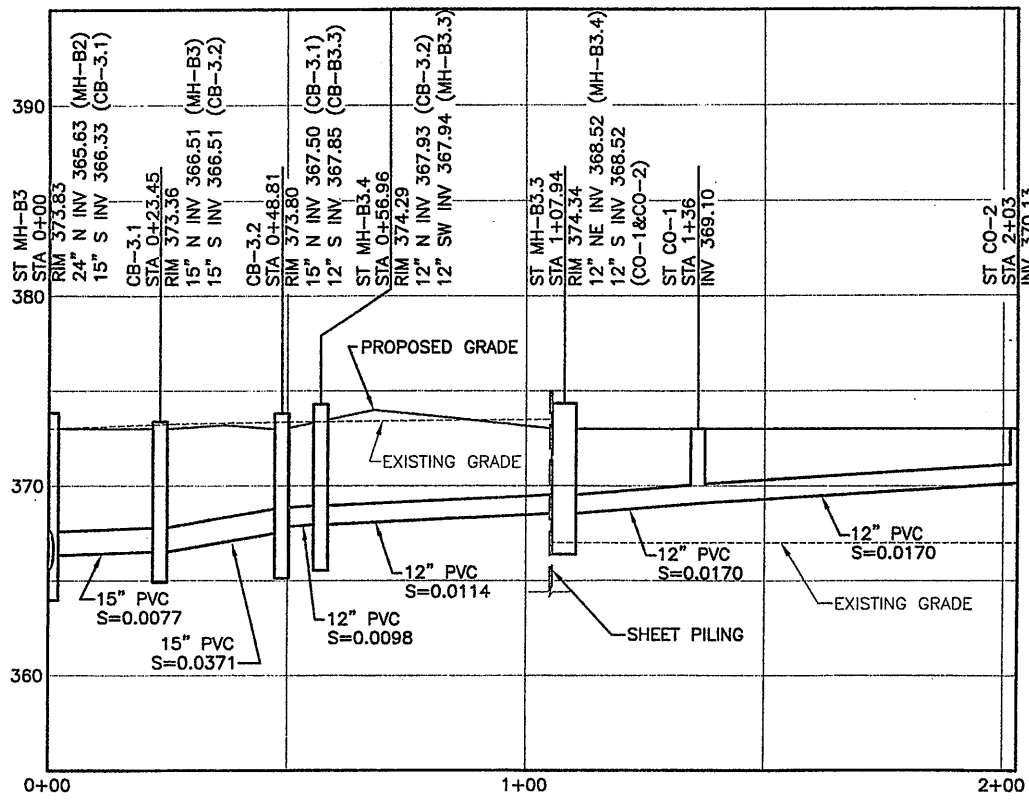
MATCH LINE TO STA B3+00 ON DWG G-026



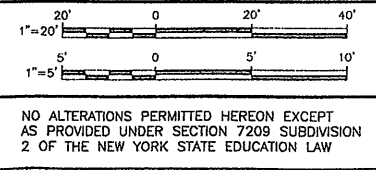
MISC CB/TEE CONNECTIONS			
CONNECTION	PIPE	INV ELEV	S
18x18x10 TEE	10" PVC	366.86	0.430
ST CO-8	10" PVC	370.3	
18x18x10 TEE	10" PVC	367.33	0.3713
ST CO-7	10" PVC	370.3	

MISC CB/TEE CONNECTIONS			
CONNECTION	PIPE	INV ELEV	S
18x18x12 TEE	12" PVC	367.18	0.9089
CB-B6	12" PVC	371.27	
18x18x12 TEE	12" PVC	370.23	0.2956
CB-B8	12" PVC	371.56	

NOTES: 1. ALL PIPE INVERT ELEVATIONS ARE AT THE CENTERLINE OF THE STRUCTURES.
2. SEE GRADING AND DRAINAGE PLAN, DWG G-024, FOR STORM SEWER LAYOUT.

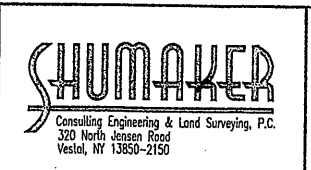
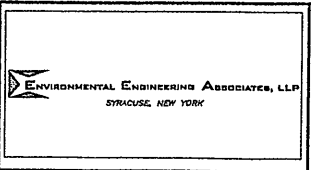


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9/19/05 SYR-85 SCE KMD PGL
05503081/RECORD/0659027.DWG



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DF
1	6/25/01	AS BID	DF
2	8/18/05	FOR RECORDS	DF

In charge of: RJS
Designed by: MHW
Drawn by: MHW
Checked by: VDM

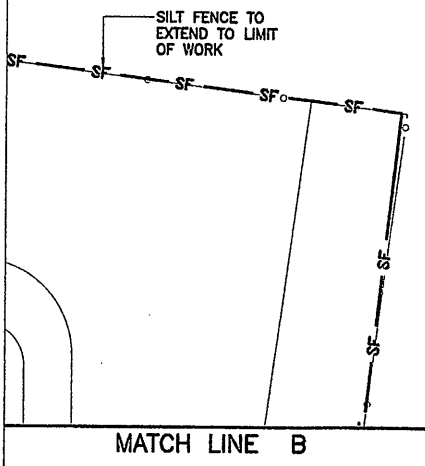
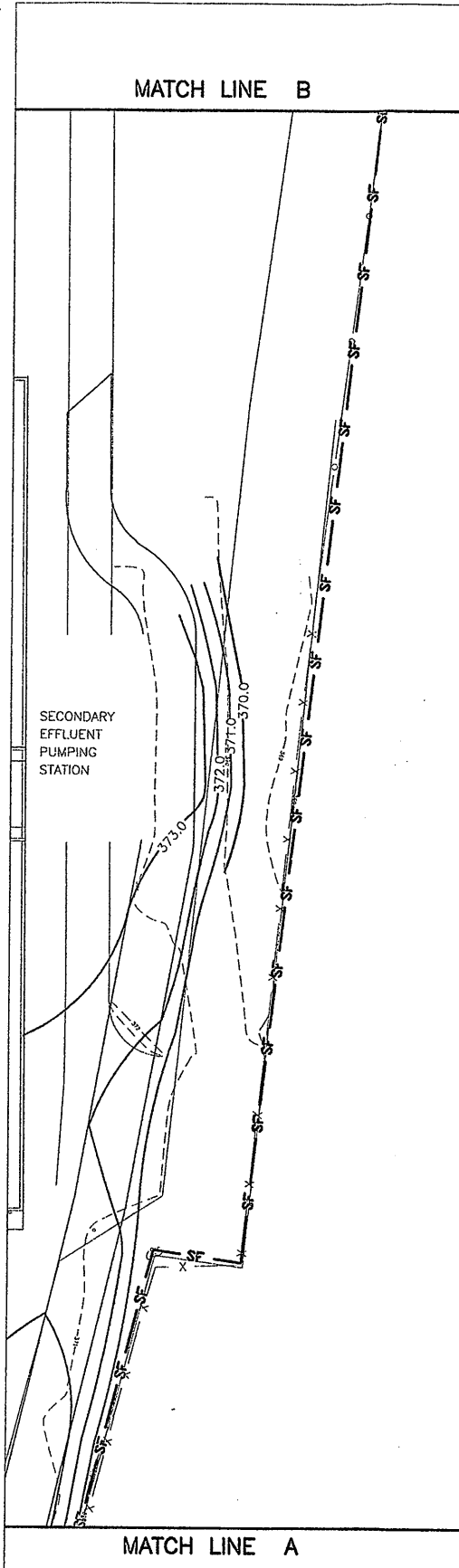
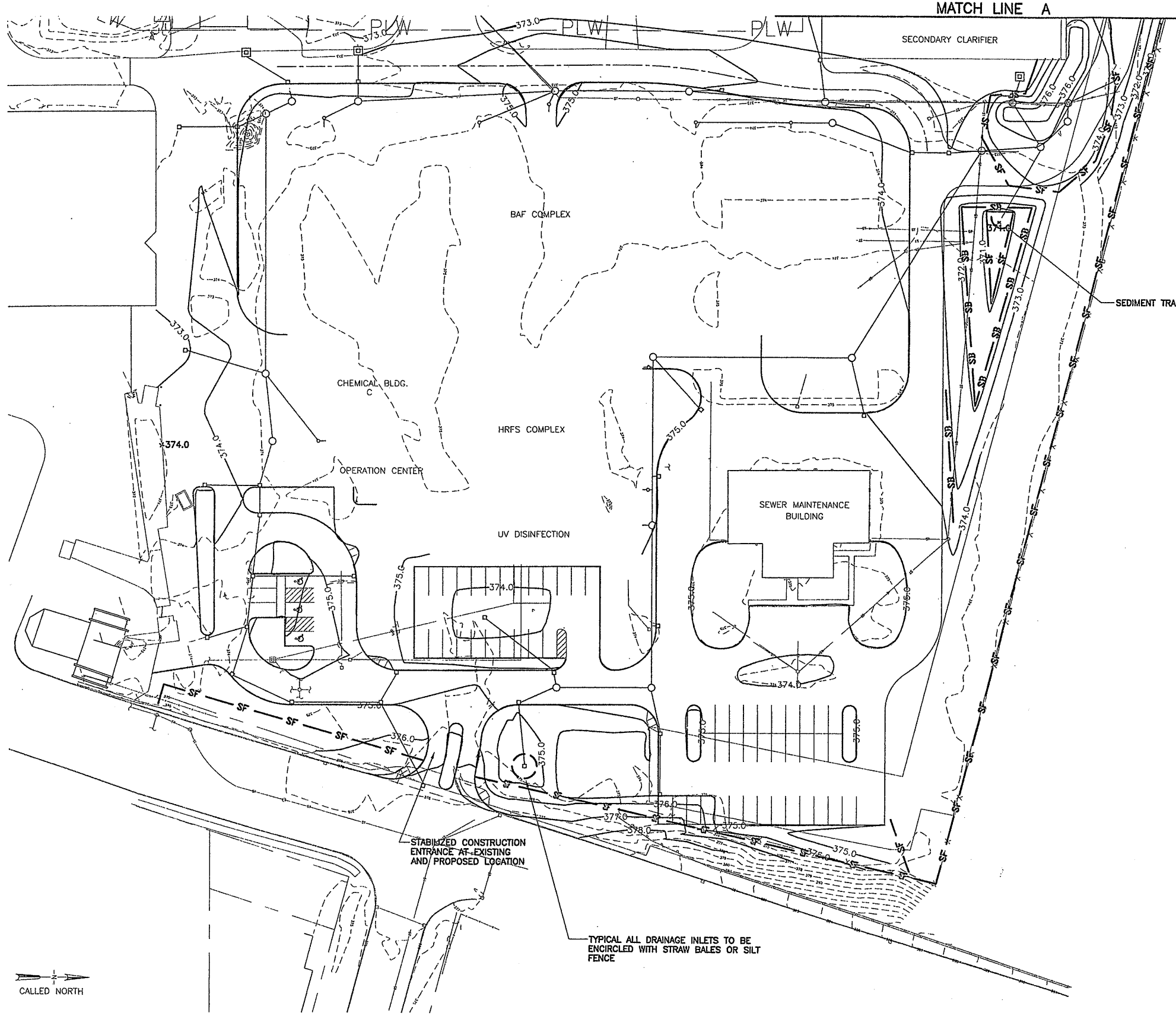


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
STORM SEWER PIPING PROFILES
GENERAL

File Number 00659	G-027
Date APRIL 2001	

RECORD DRAWING
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DATE: 9/27/05 PER: D.M.F.

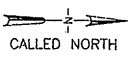
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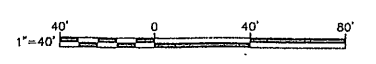
NOTE:
1. SEE EROSION AND SEDIMENT CONTROL DETAILS ON SHEET G-029.

RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 9/27/05 PER: J. Donald F.P.

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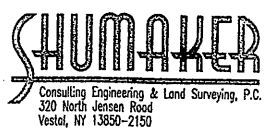
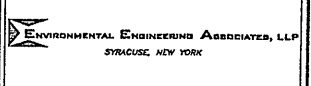


Layer: ON=*; OFF=*REF*
09/19/05 SCE AMP BBL KMD
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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DR
1	6/25/01	AS BID	DR
2	8/18/05	FOR RECORDS	DM

In charge of RJS
Designed by SEG
Drawn by SEG
Checked by VDM



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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

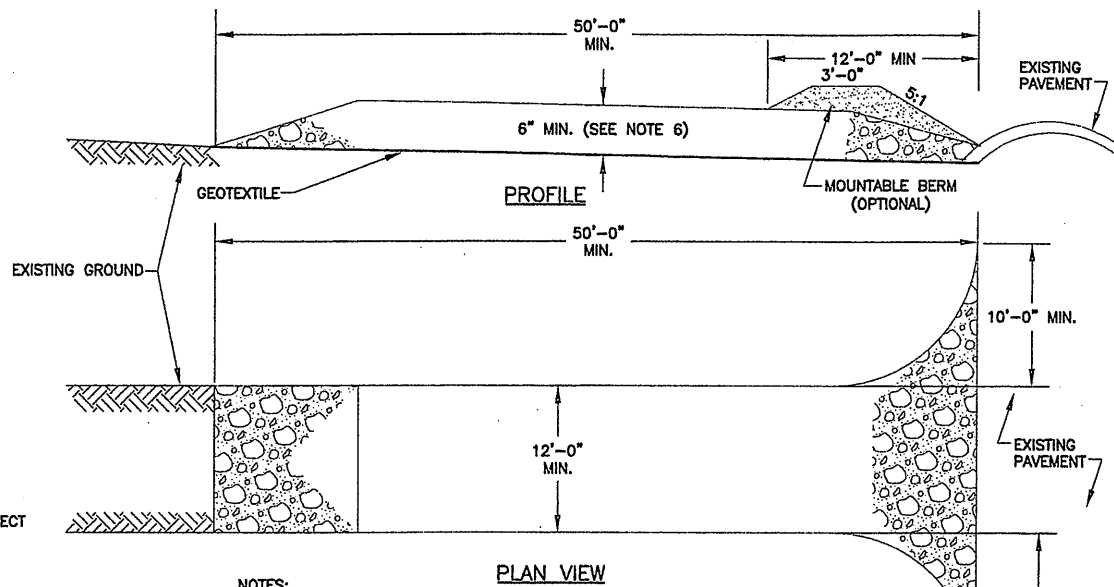
EROSION AND SEDIMENT CONTROL PLAN

GENERAL

File Number 00659	G-028
Date APRIL 2001	

NOTES:

1. THE ELEMENTS OF THIS PAGE KNOWN AS "SOIL EROSION AND WATER POLLUTION CONTROL" SHALL BE USED DURING CONSTRUCTION IN ANY AREA WHERE FINE MATERIALS MAY ENTER THE WATERS OF THE STATE OF NEW YORK.
2. SECTION 404 OF THE CLEAN WATER ACT (33 U.S.C. 1344) PROHIBITS THE DISCHARGE OF DREDGE OR FILL MATERIALS INTO THE WATERS OF THE UNITED STATES WITHOUT A PERMIT FROM THE U.S. ARMY CORPS OF ENGINEERS.
3. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE NYSDEC SPDES AND EPA NPDES GENERAL PERMITS, IF REQUIRED. SEE SUPPLEMENTAL GENERAL CONDITIONS OF CONTRACT.
4. ALL REFERENCES TO NYS DOT STANDARD SPECIFICATIONS OR STANDARD SPECIFICATIONS, MEAN THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, OFFICE OF ENGINEERING (JANUARY 2, 1995) WITH ADDENDA NO.1 AND 2 THERETO.
5. ALL WORK SHALL BE LIMITED TO WITHIN THE DESIGNATED PROPERTY, RIGHT OF WAY, EASEMENT WORK LIMITS OR RELEASE.
6. ALL CONTROLS SHALL BE PLACED PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREAS ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION.
7. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT MIGRATION INTO WATER BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION PROCEDURES.
8. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
9. PERIODIC INSPECTION, CLEANING AND REPAIRING/REPLACEMENT OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES WILL BE NECESSARY. MAINTENANCE OF THESE DEVICES IS REQUIRED AFTER ANY STORM EVENT.
10. REMOVING TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES WILL BE NECESSARY AFTER ESTABLISHMENT OF A DURABLE AND MAINTAINABLE VEGETATIVE COVER.
11. ALL DEWATERING OPERATION WATER SHALL BE FILTERED AND TREATED AS DESCRIBED IN THE DEWATERING TECHNICAL SPECIFICATION.
12. HEAVY EQUIPMENT SHALL NOT BE DRIVEN IN THE WATER.
13. NO DISCHARGE OF TEMPORARY FILL MATERIAL INTO THE WATERWAY IS PERMITTED.
14. ANY ACCESS WAYS OR DETOURS SHALL BE COMPLETELY ISOLATED WITH EROSION CONTROL TREATMENTS. IF THE ACCESS WAY IS TO REMAIN IN PLACE LONGER THAN 5 DAYS THE EXPOSED SOILS ARE TO BE TEMPORARILY SEEDED AND MULCHED.
15. SAND BAGS APPROVED FOR USE SHALL BE OF A REINFORCED GEOTEXTILE TYPE WITH TIES. NO BURLAP BAGS SHALL BE USED. SAND OR GRAVEL MAY BE USED AS THE FILL MATERIAL WITH THIS TYPE OF BAG IF MATERIAL IS DOUBLE BAGGED AND INDIVIDUALLY TIED TO PREVENT LEAKAGE. GRAVEL MATERIAL USED TO FILL THE BAGS SHALL MEET THE SIZE DESIGNATION #1 OF TABLE 703-4 OF THE NYS DOT STANDARD SPECIFICATIONS.

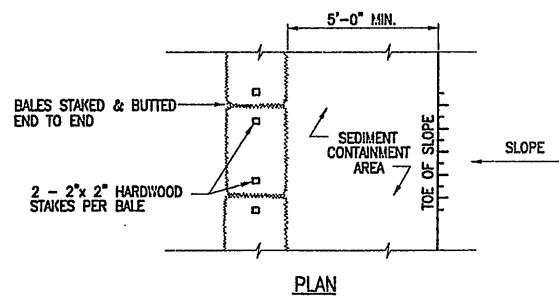


NOTES:

1. STONE SIZE- USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. WIDTH- TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
3. GEOTEXTILE- WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
4. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
5. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR EXISTING ON SITE PAVEMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
6. FOR TEN (10) FOOT EACH SIDE OF THE TWENTY (20) INCH GAS MAIN CROSSING, THE STONE THICKNESS SHALL BE 2'-0" MINIMUM.

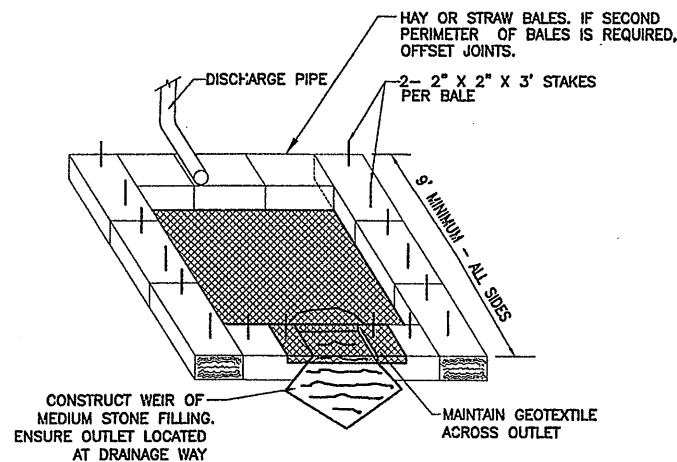
STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



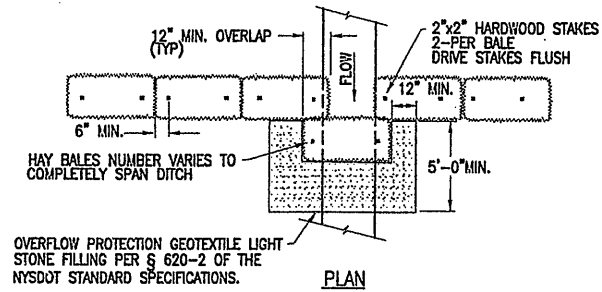
HAYBALE/STRAWBALE DETAIL

NOT TO SCALE



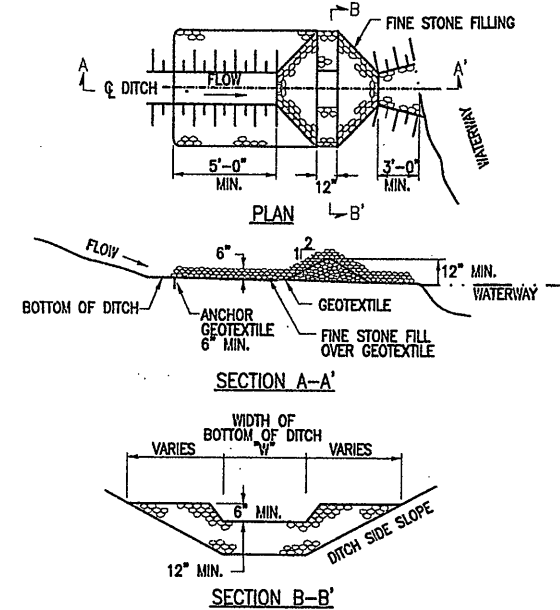
TEMPORARY SETTLEMENT BASIN DETAIL

NOT TO SCALE



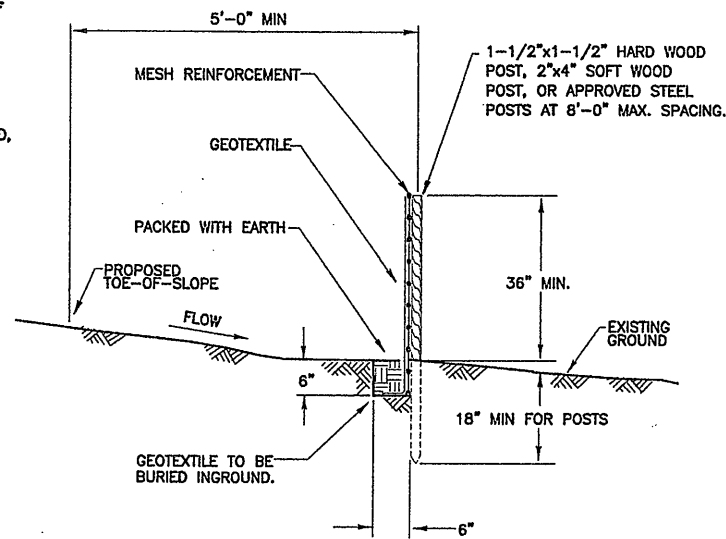
CHECKDAM (HAYBALE/STRAWBALE) DETAIL

NOT TO SCALE



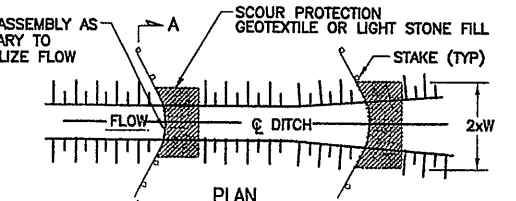
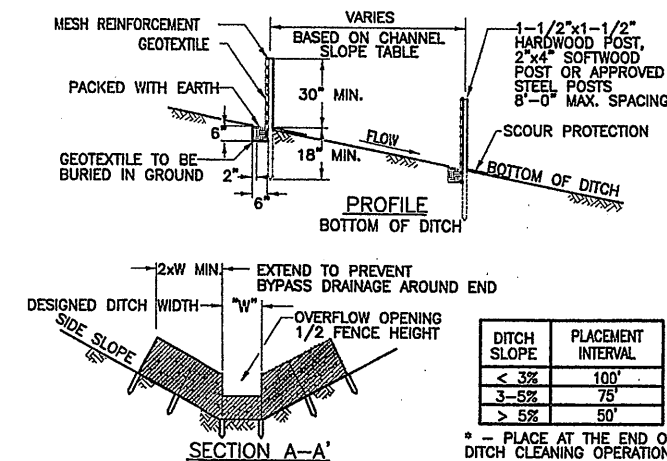
SEDIMENT TRAP (DITCH) DETAIL

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE



CHECK DAM (SILT FENCE) DETAIL

NOT TO SCALE

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 9/22/05 PER: Donald FP

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09/19/05 SCE AMP BBL KMD
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1	6/25/01	AS BID	DF
2	8/18/05	FOR RECORDS	DF

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Designed by	AMP
Drawn by	AMP
Checked by	VDM

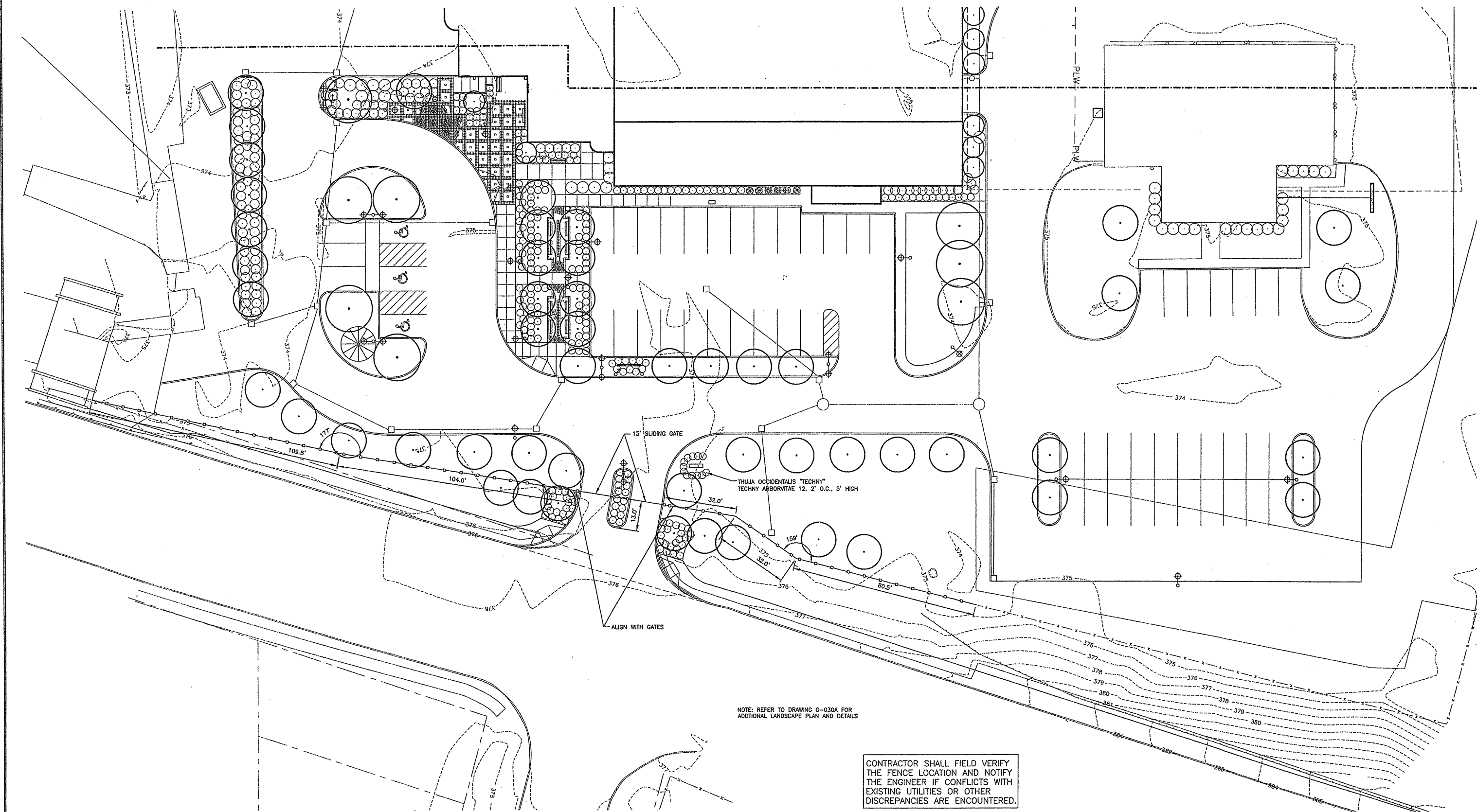
SHUMAKER
Consulting Engineering & Land Surveying, P.C.
320 North Jensen Road
Vestal, NY 13850-2150

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

EROSION AND SEDIMENT CONTROL DETAILS

GENERAL

File Number	00659
Date	APRIL 2001
	G-029

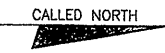


NOTE: REFER TO DRAWING G-030A FOR ADDITIONAL LANDSCAPE PLAN AND DETAILS

CONTRACTOR SHALL FIELD VERIFY THE FENCE LOCATION AND NOTIFY THE ENGINEER IF CONFLICTS WITH EXISTING UTILITIES OR OTHER DISCREPANCIES ARE ENCOUNTERED.

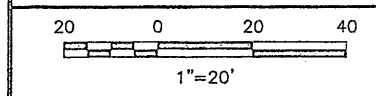
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 DATE: 9/27/05 PER: Donald F. G.



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0659x048, 0659x049
 9/22/05 L&P TKL BBL KMD, KLS
 05503081/RECORD/0659G030.DWG



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2		ADDENDUM No. 1	DFK
3	3/29/04		DFK
4	6/03/04	MOD 4A-295	DFK
5	12/9/04	MOD 4A-366	DFK
6	8/18/05	FOR RECORDS	DFK

In charge of TKL
 Designed by TKL
 Drawn by TKL
 Checked by TKL

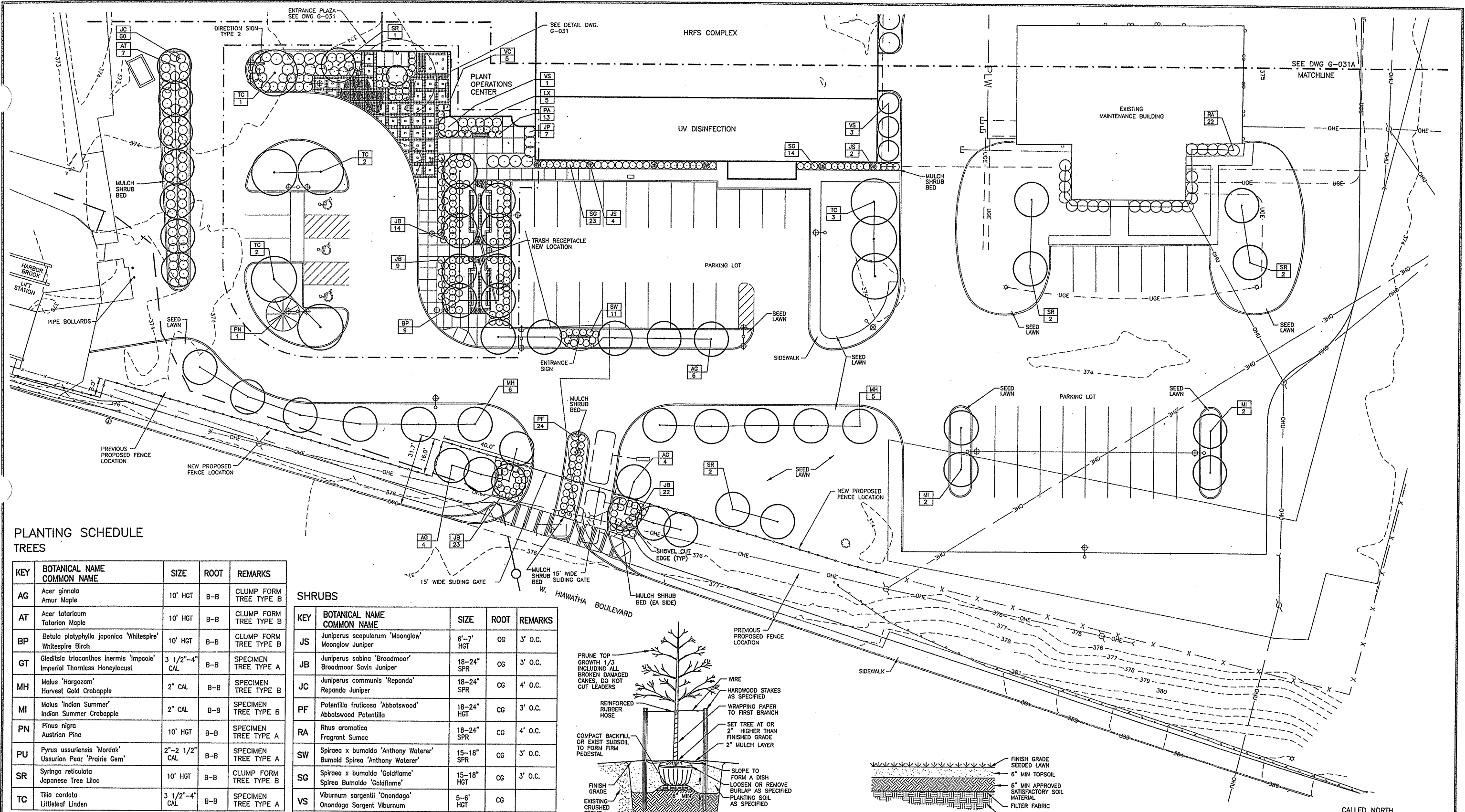
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

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 107 Saybrook Lane, Syracuse, New York 13214
 (315) 446-0102, fax (315) 446-1245, e-mail: lundland@aol.com

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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

LANDSCAPE PLAN
 GENERAL

File Number 00659	G-030
Date APRIL 2001	

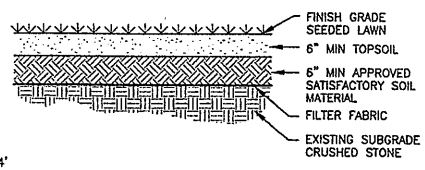
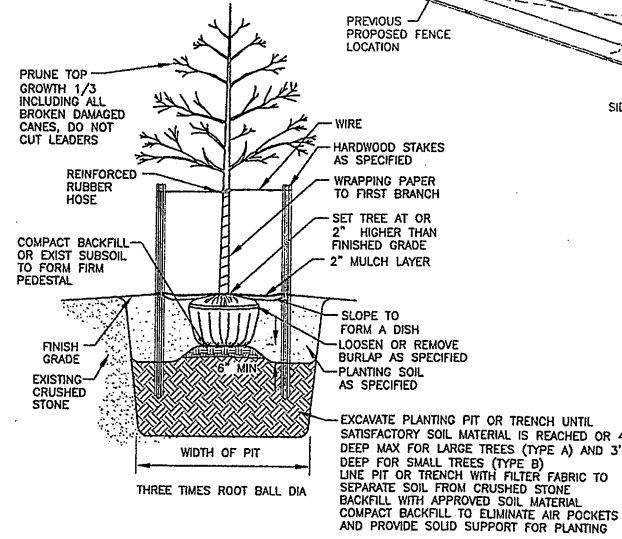


PLANTING SCHEDULE TREES

KEY	BOTANICAL NAME COMMON NAME	SIZE	ROOT	REMARKS
AG	Acer ginnala Amur Maple	10' HGT	B-B	CLUMP FORM TREE TYPE B
AT	Acer tataricum Tatarian Maple	10' HGT	B-B	CLUMP FORM TREE TYPE B
BP	Betula platyphylla japonica 'Whitespire' Whitespire Birch	10' HGT	B-B	CLUMP FORM TREE TYPE B
GT	Gleditsia triacanthos inermis 'Impcoale' Imperial Thornless Honeylocust	3 1/2"-4" CAL	B-B	SPECIMEN TREE TYPE A
MH	Malus 'Hargozam' Harvest Gold Crabapple	2" CAL	B-B	SPECIMEN TREE TYPE B
MI	Malus 'Indian Summer' Indian Summer Crabapple	2" CAL	B-B	SPECIMEN TREE TYPE B
PN	Pinus nigra Austrian Pine	10' HGT	B-B	SPECIMEN TREE TYPE A
PU	Pyrus ussuriensis 'Mordak' Ussurian Pear 'Prairie Gem'	2"-2 1/2" CAL	B-B	SPECIMEN TREE TYPE A
SR	Syringa reticulata Japanese Tree Lilac	10' HGT	B-B	CLUMP FORM TREE TYPE B
TC	Tilia cordata Littleleaf Linden	3 1/2"-4" CAL	B-B	SPECIMEN TREE TYPE A

SHRUBS

KEY	BOTANICAL NAME COMMON NAME	SIZE	ROOT	REMARKS
JS	Juniperus scopulorum 'Moonglow' Moonglow Juniper	6'-7' HGT	CG	3' O.C.
JB	Juniperus sabina 'Broadmoor' Broadmoor Savin Juniper	18-24" SPR	CG	3' O.C.
JC	Juniperus communis 'Rependa' Rependa Juniper	18-24" SPR	CG	4' O.C.
PF	Potentilla fruticosa 'Abbotswood' Abbotswood Potentilla	18-24" HGT	CG	3' O.C.
RA	Rhus aromatica Fragrant Sumac	18-24" SPR	CG	4' O.C.
SW	Spiraea x bumalda 'Anthony Waterer' Bumalda Spiraea 'Anthony Waterer'	15-18" SPR	CG	3' O.C.
SG	Spiraea x bumalda 'Goldflame' Spiraea Bumalda 'Goldflame'	15-18" HGT	CG	3' O.C.
VS	Viburnum sargentii 'Onondaga' Onondaga Sargent Viburnum	5-6' HGT	CG	
LX	Lonicera Xylosteum Dwarf Fly Honeysuckle	15"-18" HGT	CG	



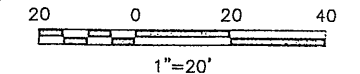
PLANTING DETAILS

N.T.S.

RECORD DRAWING

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DATE: 9/27/05 PER: [Signature]

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5	8/18/05	FOR RECORDS	DK

In charge of TKL
Designed by TKL
Drawn by TKL
Checked by TKL

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SYRACUSE, NEW YORK

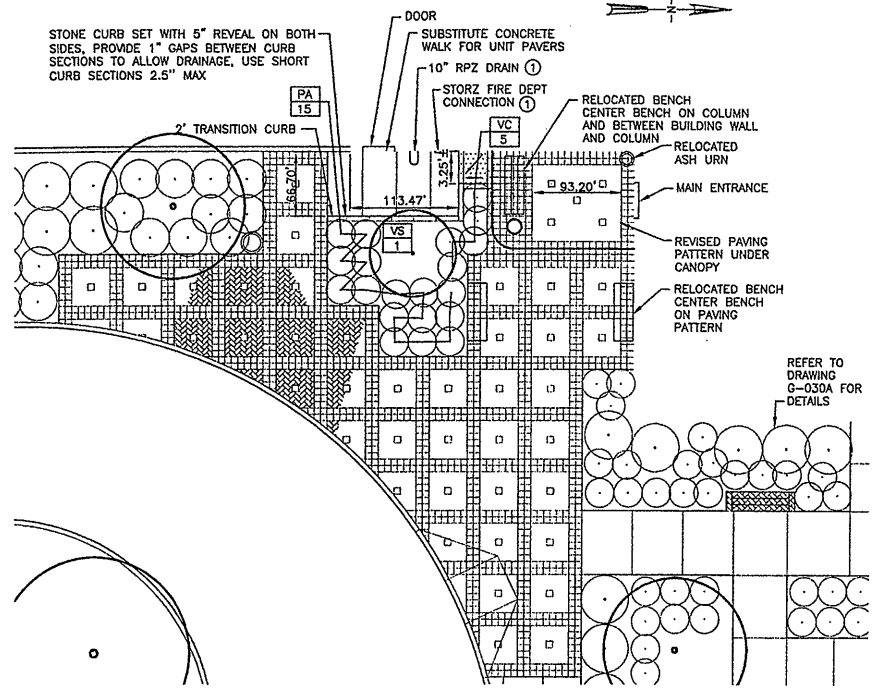
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

LANDSCAPE AND UTILITY PLAN AND DETAILS
GENERAL

File Number
00659
Date
APRIL 2001
G-030A

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



KEY	BOTANICAL NAME COMMON NAME	SIZE	ROOT	REMARKS
PA	Potentilla fruticosa 'Abbotswood' Abbotswood Potentilla	15"-18" HGT	CG	Substitute for SJ Spiraea japonica (Japanese Spirea)
VC	Viburnum carlesii 'Compactum' Compact Koreanspice Viburnum	15"-18" HGT	CG	
VS	Viburnum sargentii 'Onondaga' Onondaga Sargent Viburnum	6' HGT	CG	Substitute for SR Syringa reticulata (Japanese Tree Lilac)

① REFER TO DWG 4D-00064-1

PARTIAL ENTRANCE PLAZA - SITE PLAN
SCALE: 1" = 10'

PLANTING SCHEDULE				
KEY	BOTANICAL NAME COMMON NAME	SIZE	ROOT	REMARKS
BJ	Betula jacquemontii White Barked Himalayan Birch	10' HGT	B-B	CLUMP FORM
PR	Pyrus calleryana 'Redspire' Callery Pear 'Redspire'	3 1/2"-4" CAL	B-B	SPECIMEN
SR	Syringa reticulata Japanese Tree Lilac	10' HGT	B-B	CLUMP FORM
PN	Pinus nigra Austrian Pine	10' HGT	B-B	SPECIMEN

KEY	BOTANICAL NAME COMMON NAME	SIZE	ROOT	REMARKS
IC	Ilex crenata 'Green Lustre' Green Lustre Japanese Holly	18"-24" HGT	CG	3' O.C.
JP	Juniperus chinensis 'Pfitzeriana Compacta' Compact Pfitzer Juniper	2'-3' HGT	CG	5' O.C.
JB	Juniperus sabinia 'Broadmoor' Broadmoor Juniper	15-18" SPR	CG	5' O.C.
PF	Potentilla fruticosa 'Jackmanii' Jackman Potentilla	15-18" SPR	CG	3' O.C.
SJ	Spiraea japonica 'Little Princess' Japanese Spirea 'Little Princess'	15-18" SPR	CG	3' O.C.

RECORD DRAWING

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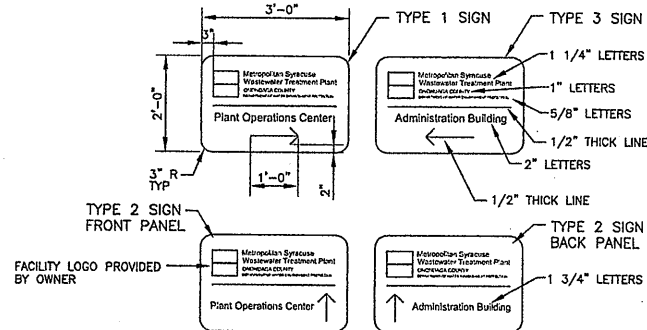
DATE: 9/27/05 PER: [Signature]



KEY IDENTIFIER OF PLANT SPECIES
QUANTITY OF PLANTS REQUIRED

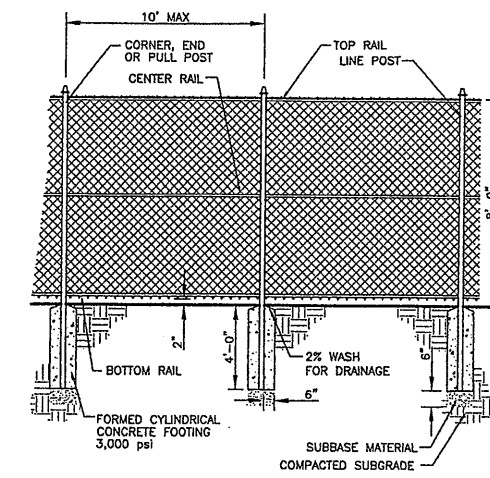
ABBREVIATIONS: B-B (BALLED & BURLAPPED) CAL (CALIPER)
HGT (HEIGHT) SPR (SPREAD) CG (CONTAINER GROWN)

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

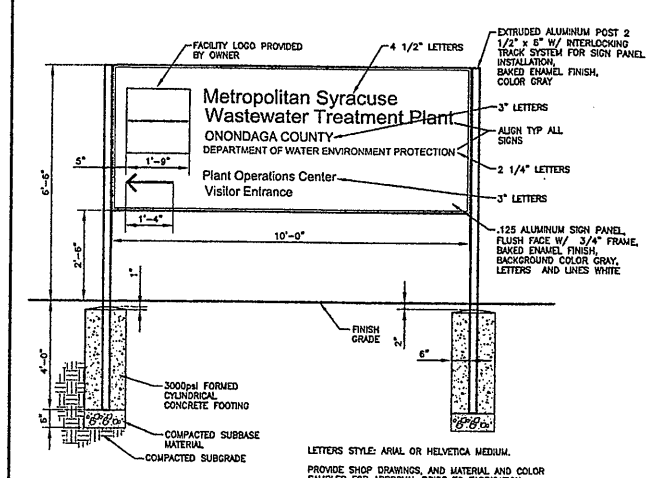


SIGNS SHALL BE 0.125" ALUMINUM WITH BAKED ENAMEL FINISH
LETTERS STYLE: ARIAL OR HELVETICA MEDIUM.
SIGN COLORS:
-GRAY WITH WHITE LETTERS AND LINES
-BACK OF SIGN SOLID GRAY.
GRAY COLOR SHALL MATCH THE COLOR OF SITE FURNITURE.

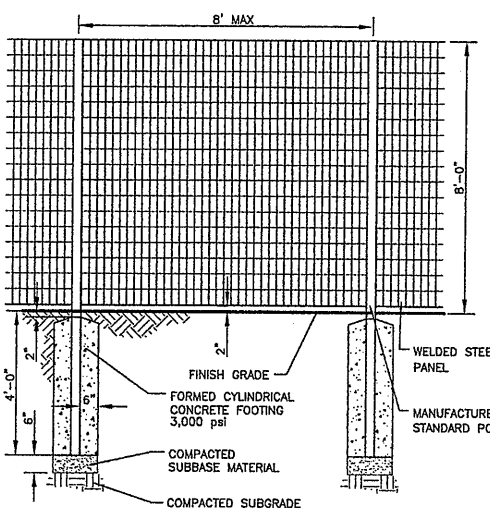
PROVIDE SHOP DRAWINGS, AND MATERIAL AND COLOR SAMPLES FOR APPROVAL PRIOR TO FABRICATION.



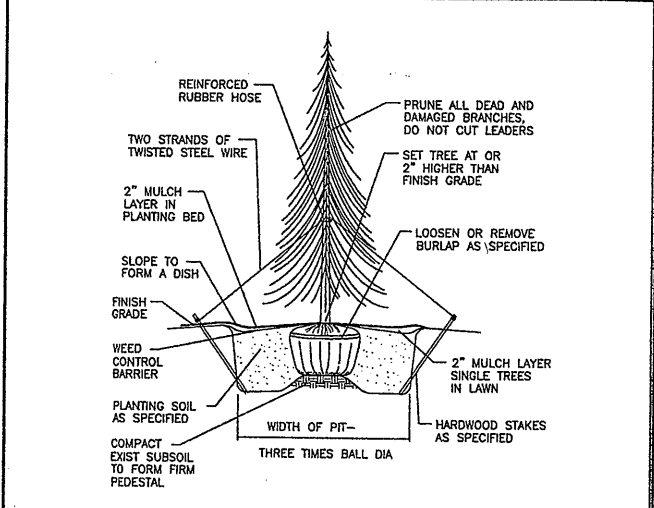
CHAIN LINK FENCE
N.T.S.



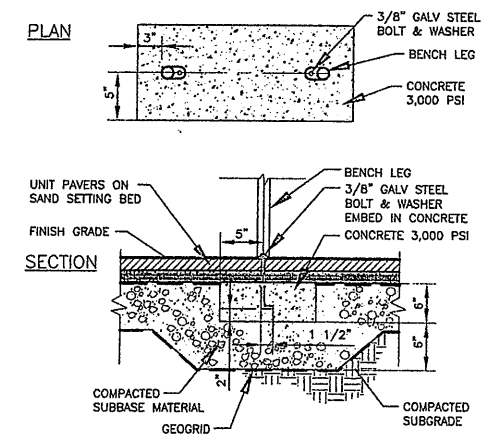
ENTRANCE SIGN
N.T.S.



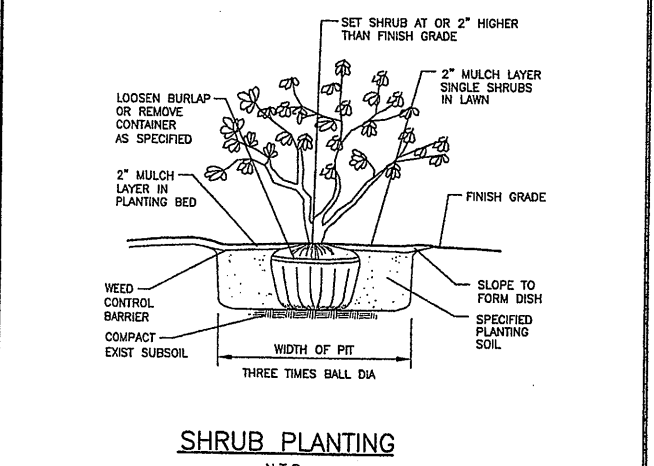
ORNAMENTAL FENCE
N.T.S.



EVERGREEN TREE PLANTING
N.T.S.



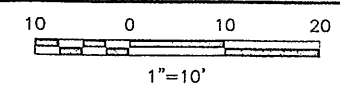
BENCH FOOTING
N.T.S.



SHRUB PLANTING
N.T.S.

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05503081/RECORD/0659GD31.DWG



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0	4/20/01	ISSUED FOR APPROVAL	DK
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Drawn by ___ TKL ___
Checked by ___ TKL ___



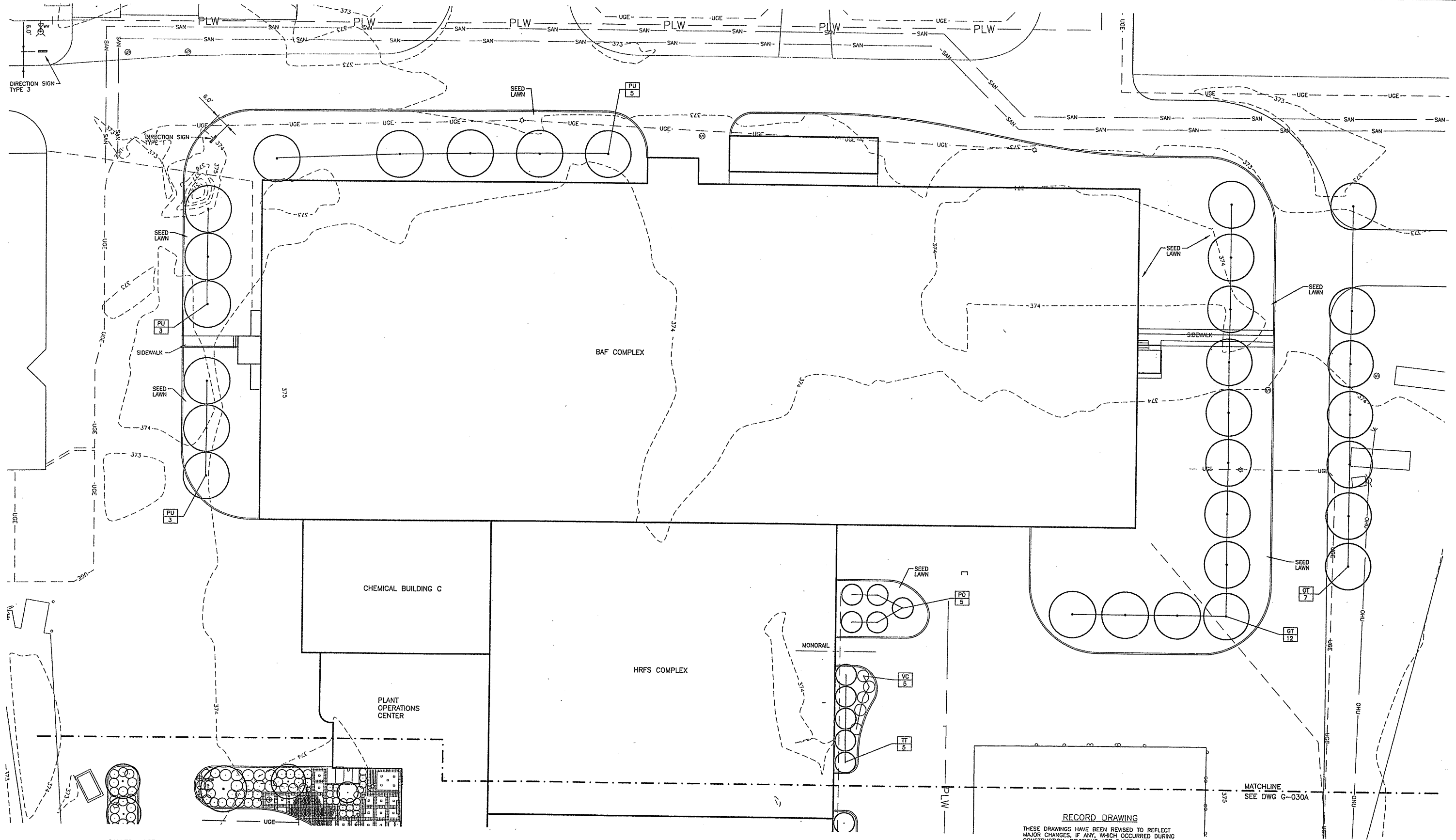
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

LANDSCAPE PLAN AND DETAILS

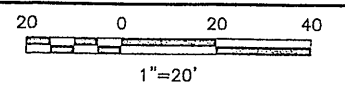
GENERAL

File Number	00659
Date	APRIL 2001
	G-031



0659x048, 0659x049
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 05503081/RECORD/0659G031A.DWG

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0	4/20/01	ISSUED FOR APPROVAL	DF4
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4	6/03/04	MOD 4A-295	DF4
5	8/18/05	FOR RECORDS	DF4

In charge of --- TKL
 Designed by --- TKL
 Drawn by --- TKL
 Checked by --- TKL

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LANDSCAPE AND UTILITY PLAN

GENERAL

RECORD DRAWING
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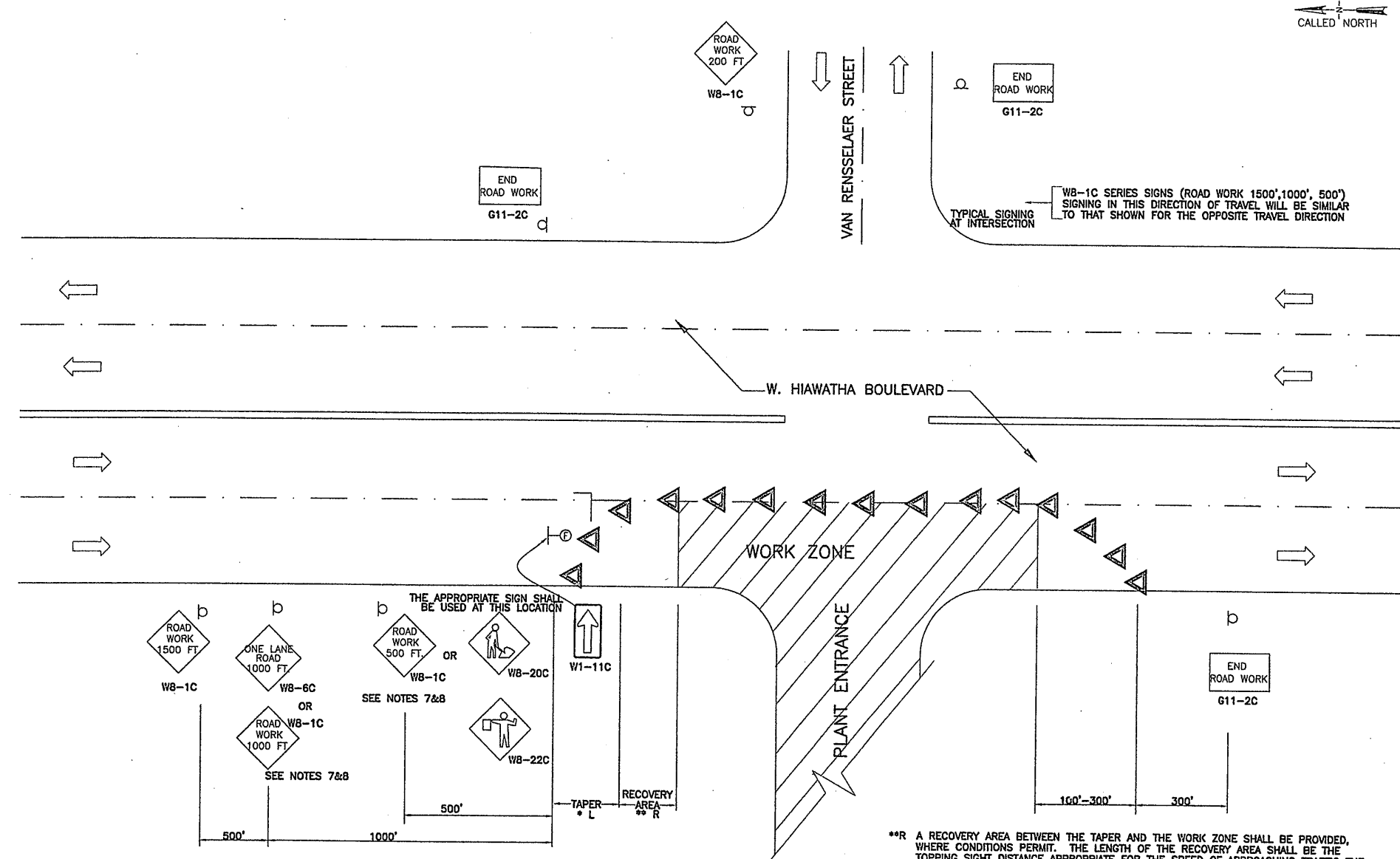
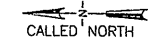
MATCHLINE
 SEE DWG G-030A

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File Number	00659
Date	APRIL 2001
	G-031A

NOTES:

- ALL REFERENCES TO THE NYS DOT STANDARD SPECIFICATIONS, OR STANDARD SPECIFICATIONS, SHALL MEAN THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, OFFICE OF ENGINEERING (JANUARY 2, 1995) WITH ADDENDA NO. 1 AND 2 THERETO. ALL REFERENCES TO THE NYS MUTCD SHALL MEAN THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 17B NYCRR.
- CONTRACTOR SHALL BE AWARE THAT MAINTENANCE AND PROTECTION OF TRAFFIC IS A VERY CRITICAL ITEM OF THE CONTRACT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 MAINTENANCE AND PROTECTION OF TRAFFIC OF THE NYS DOT STANDARD SPECIFICATIONS, NYS MUTCD AND ALL OTHER APPLICABLE PROVISIONS OF THE CONTRACT.
- ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS AND OTHER ARRANGEMENTS OF SIGNS.
- DISTANCES SHALL BE ADAPTED TO PREVAILING CONDITIONS.
- SIGNS THAT ARE NOT APPLICABLE AFTER WORKING HOURS SHALL BE COVERED, OBSCURED FROM SIGHT, OR REMOVED.
- CONTRACTOR MAY SUBMIT REVISIONS TO THIS PLAN, BUT ANY CHANGE THAT ALTERS THE BASIC CONCEPTS OF THE PLAN MUST BE APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL INSTALL EITHER BARRICADES, VERTICAL PANELS OR DRUMS AT 50' MAXIMUM INTERVALS IN ACCORDANCE WITH SECTION 292.2, 292.3 AND 292.4 OF THE NYS MUTCD, AS SOON AS GUIDE RAIL IS REMOVED, AND THEY SHALL BE LEFT IN PLACE UNTIL NEW GUIDE RAIL IS INSTALLED. IF THESE BARRICADES, VERTICAL PANELS OR DRUMS ARE TO BE LEFT OVERNIGHT THEY SHALL BE PRECEDED BY A TYPE III BARRICADE, 4 LF. IN LENGTH, WITH A TYPE A FLASHING LOW INTENSITY WARNING LIGHT. A C-3 BARRICADE SIGN SHALL BE USED ON THE BARRICADE.
- WB-22C & WB-6C SIGNS SHALL BE USED AND A FLAGGER PROVIDED WHENEVER A LANE IS CLOSED. THE WB-22C AND WB-6C SIGN SHALL BE REPLACED WITH WB-20C AND WB-1C SIGNS RESPECTIVELY WHEN TWO-WAY TRAFFIC IS AVAILABLE WITHIN THE WORK AREA. THE WB-1C SERIES SIGNS SHALL ALSO BE PROVIDED WHEN THE WORK WITHIN A SPECIFIC AREA REMAINS INCOMPLETE.
- THE WB-1C SERIES SIGNS (ROAD WORK - 1500', 1000', 500') MAY BE REQUIRED WHEN THE WB-22C OR WB-20C SIGNS ARE NOT IN USE. THEY SHOULD BE PORTABLE AND USED IMMEDIATELY PRECEDING THE WORK ZONE.
- ALL SIGN NUMBERS REFER TO THE NYS MUTCD.
- CONSTRUCTION EQUIPMENT AND MATERIAL SHALL BE REMOVED FROM THE CLEAR ROADSIDE AREA DURING NON-WORKING HOURS.
- DURING WORKING HOURS, NO CONSTRUCTION MATERIAL MAY BE STORED OR PLACED ON THE PAVEMENT OR WITHIN THE ROADSIDE CLEAR AREA EXCEPT IN A PROTECTED WORK ZONE.
- NO PAVEMENT EDGE DROP-OFF GREATER THAN 4 INCHES SHALL REMAIN OVERNIGHT UNLESS PROPER DELINEATION AND SIGNING IS PROVIDED. PROPER DELINEATION SHALL CONSIST OF DRUMS, VERTICAL PANELS OR BARRICADES PROVIDED THEY ARE PROPERLY PAINTED AND REFLECTORIZED IN ACCORDANCE WITH THE NYS MUTCD. PROPER SIGNING SHALL CONSIST OF WB-1C ROAD WORK SIGN SERIES, WHICH INCLUDES A W4-13C NO SHOULDER SIGN. A DROP-OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1 ON 6 SLOPE OR FLATTER. REFERENCE SECTION 619-3.01 OF THE NYS DOT STANDARD SPECIFICATIONS. WHEN DRUMS ARE USED FOR DELINEATION OF THE CHANNELIZATION OF TRAFFIC, ONLY APPROVED PLASTIC BARRELS MAY BE USED. THESE BARRELS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- THE VEHICLES BELONGING TO CONTRACTOR OR HIS WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC.



WORK IN ONE LANE OF MULTI-LANE ROADWAY (TYPICAL SIGNING)

WORK HOURS ONLY
NOT TO SCALE

**R A RECOVERY AREA BETWEEN THE TAPER AND THE WORK ZONE SHALL BE PROVIDED, WHERE CONDITIONS PERMIT. THE LENGTH OF THE RECOVERY AREA SHALL BE THE TOPPING SIGHT DISTANCE APPROPRIATE FOR THE SPEED OF APPROACHING TRAFFIC THE RECOVERY AREA SHALL BE KEPT CLEAR OF ALL OBSTRUCTIONS, CONSTRUCTION VEHICLES AND CONSTRUCTION MATERIALS.

*L REFERENCE IS MADE TO SECTION 292.1(d) OF THE NYS MUTCD FOR DETERMINATION OF APPROPRIATE TAPER LENGTHS. IN FLAG PERSON CONTROLLED ONE-WAY SITUATIONS THE TAPER LENGTHS SHOULD BE ADJUSTED TO REFLECT REALISTIC "WAVE THROUGH" SPEEDS.

- FLAG PERSON
- CONE
- SIGN
- DIRECTION OF TRAVEL
- FLAG TREE WITH SIGN

RECORD DRAWING

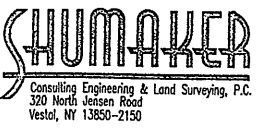
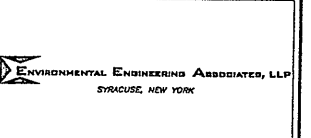
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 9/27/05 PER: Donald F9

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

Layer: ON=*, OFF=*REF*
09/19/05 SCE AMP BBL KMD
05503081/RECORD/0659G033.DWG

No.	Date	Revisions	Init
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1	6/25/01	AS BID	DFG
2	8/18/05	FOR RECORDS	DFG

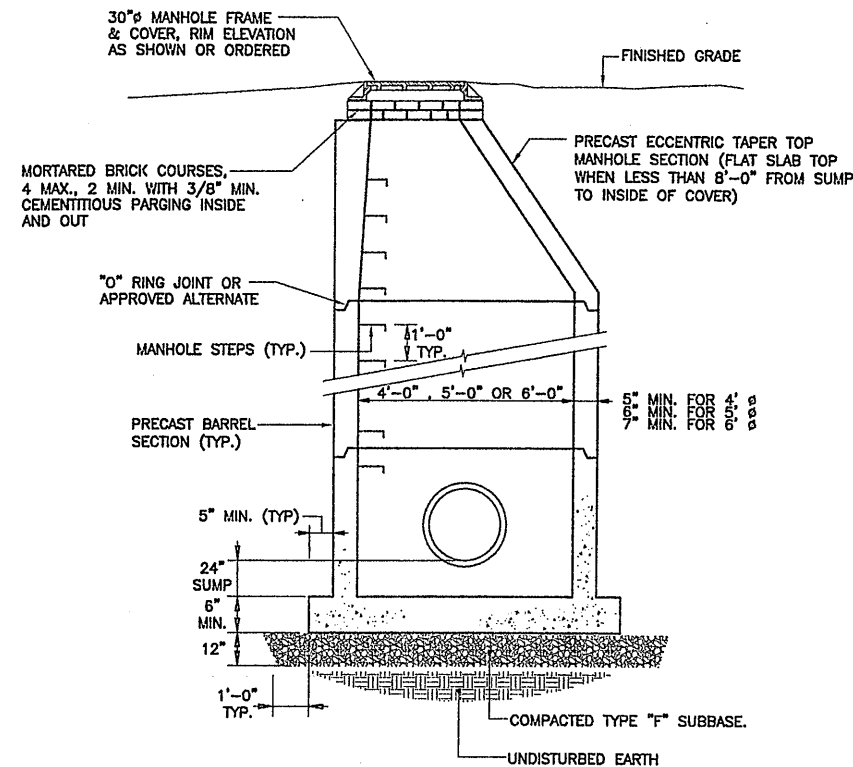
In charge of: RJS
Designed by: AMP
Drawn by: AMP
Checked by: VDM



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHOROUS REMOVAL PROJECT
TEMPORARY TRAFFIC CONTROL PLAN

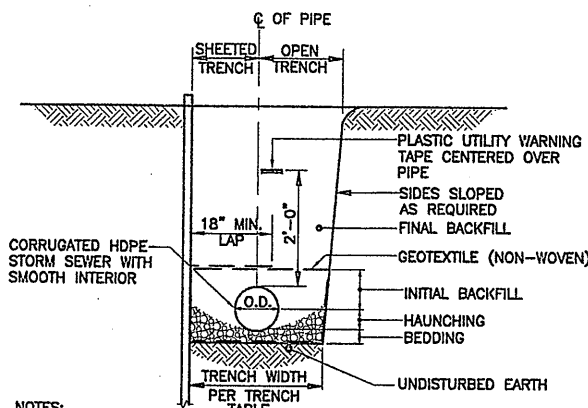
File Number	00659
Date	APRIL 2001
	G-033

GENERAL



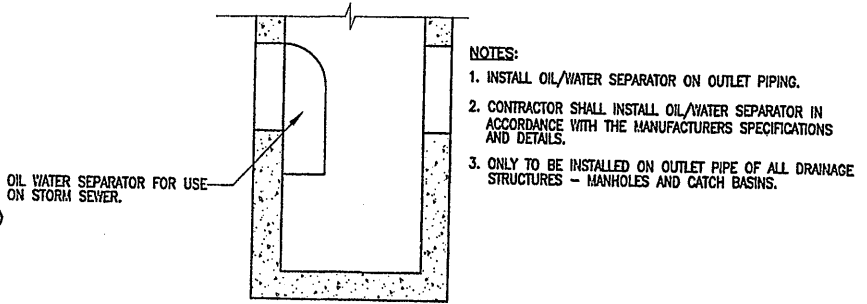
STORM SEWER PRECAST MANHOLE SECTION
NOT TO SCALE

STORM SEWER TRENCH TABLE						
TRENCH EXCAVATION AND BACKFILL ENVELOPE CONSTRUCTION						
PIPE DIAMETER (IN.)	MINIMUM TRENCH WIDTH (IN.)	MAXIMUM TRENCH WIDTH (IN.)	MINIMUM BEDDING DEPTH (IN.)	MINIMUM INITIAL BACKFILL DEPTH (IN.)	MINIMUM FINAL BACKFILL DEPTH (IN.)	MAXIMUM SIZE OF AGGREGATE
4"-8"	O.D. + 12"	O.D. + 48"	6"	O.D. + 6"	6"	TYPE 1B
10"	O.D. + 24"	O.D. + 48"	0"	O.D. + 6"	6"	TYPE 1A
12"	O.D. + 24"	O.D. + 48"	0"	O.D. + 6"	6"	TYPE 1A
15"	O.D. + 24"	O.D. + 48"	0"	O.D. + 6"	6"	TYPE 1
18"	O.D. + 24"	O.D. + 48"	0"	O.D. + 6"	6"	TYPE 1
24"	O.D. + 56"	O.D. + 48"	12"	O.D. + 6"	6"	TYPE 2
30"	O.D. + 60"	O.D. + 48"	12"	O.D. + 6"	6"	TYPE 2
36"	O.D. + 65"	O.D. + 48"	12"	O.D. + 6"	6"	TYPE 2
42"	O.D. + 84"	O.D. + 48"	12"	O.D. + 6"	6"	TYPE 3A
48"	O.D. + 91"	O.D. + 48"	12"	O.D. + 6"	6"	TYPE 3A
54"	O.D. + 97"	O.D. + 48"	12"	O.D. + 6"	6"	TYPE 3
60"	O.D. + 103"	O.D. + 48"	12"	O.D. + 6"	6"	TYPE 3

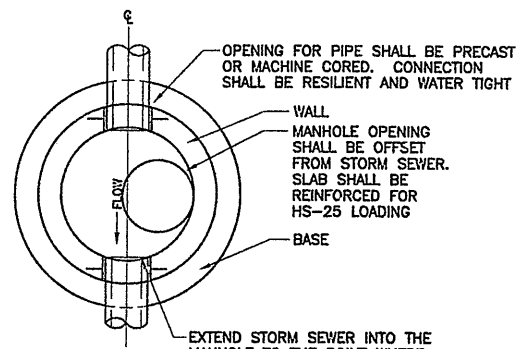


- NOTES:**
- SEE STORM SEWER TRENCH TABLE FOR TRENCH EXCAVATION AND BACKFILL ENVELOPE REQUIREMENTS.
 - BEDDING, HAUNCHING AND INITIAL BACKFILL MATERIAL TO BE OF THE SAME GRADATION.
 - BACKFILL ENVELOPE COMPACTION REQUIREMENTS: NO PAVEMENT, NO TRAFFIC-DUMPED, HAND TAMPED; PAVED OR TRAFFIC CONDITION-95% MIN. OF MAX STANDARD PROCTOR DENSITY.
 - FINAL BACKFILL AND SURFACE TREATMENT TO BE PER REQUIREMENTS OF TRENCH LOCATION.

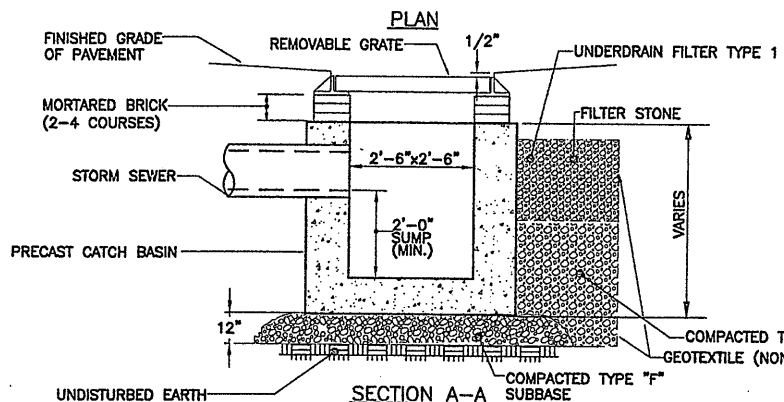
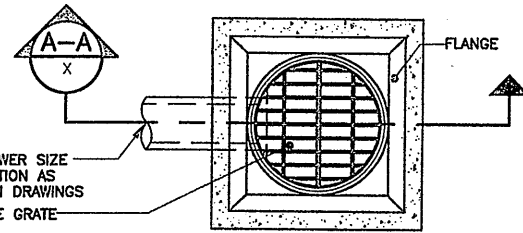
STORM SEWER TRENCH DETAIL
NOT TO SCALE



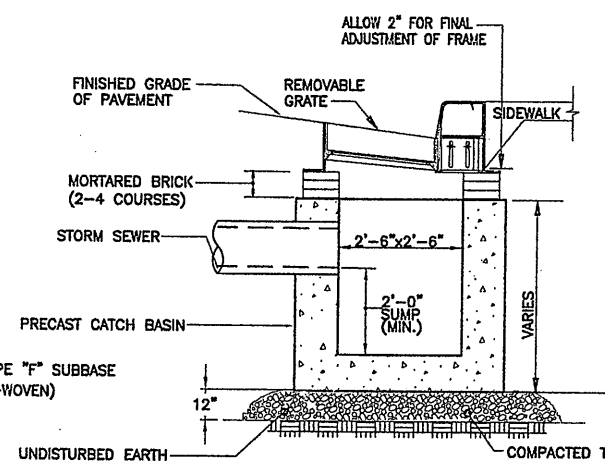
DRAINAGE STRUCTURE WITH OIL/WATER SEPARATOR DETAIL
NOT TO SCALE



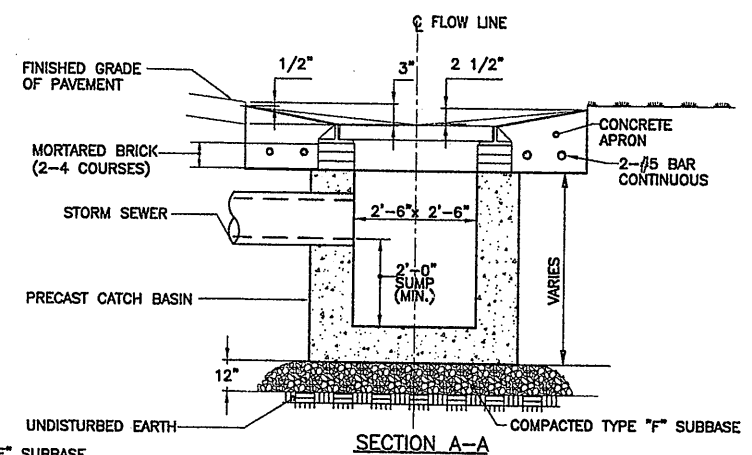
STORM SEWER MANHOLE PLAN
NOT TO SCALE



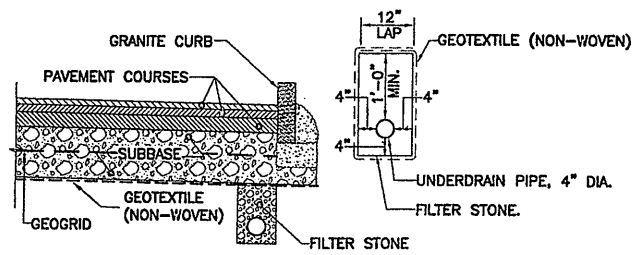
CATCH BASIN (PAVEMENT) DETAIL
NOT TO SCALE



CATCH BASIN WITH CURB TYPE INLET DETAIL
NOT TO SCALE



CATCH BASIN (LAWN AREA) DETAIL
NOT TO SCALE



UNDERDRAIN DETAIL
NOT TO SCALE

- NOTES:**
- UNDERDRAINS NOT PROVIDED.
 - DERDRAINS TO CONNECT AND DISCHARGE TO EACH CATCH BASIN WITH CURB TYPE INLET.

- NOTES (ALL CATCH BASIN DETAILS):**
- CATCH BASIN SHALL BE STEEL REINFORCED TO MEET OR EXCEED HS-25 LOADING.
 - PRECAST REINFORCED CONCRETE SECTIONS SHALL CONFORM TO HS-25 LOADING REQUIREMENTS. CAST-IN-PLACE CONCRETE MAY BE SUBSTITUTED WHEN APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
 - BOTTOM OF CATCH BASIN TO BE A MINIMUM OF 4'-0" BELOW FINISH GRADE.
 - MORTARED BRICK COURSES TO RECEIVE 3/8" CEMENTITIOUS PARGING INSIDE AND OUT.
 - STORM SEWER LOCATION AS SHOWN ON PROPOSED ROADS AND TOPO. STORM SEWER SIZE AS SHOWN ON STORM SEWER PIPING PROFILES.
 - ALL CATCH BASINS WITHIN OR ADJOINING HMA PAVEMENT SHALL BE BACKFILLED WITH COMPACTED TYPE "F" SUBBASE.
 - CATCH BASIN (PAVEMENT) DETAIL PLAN PIPING IS TYPICAL FOR ALL CATCH BASIN DETAILS.
 - OIL/WATER SEPARATORS TO BE INSTALLED ON THE OUTLET PIPE OF ALL CATCH BASINS.

RECORD DRAWING

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DATE: 9/27/05 PER: [Signature]

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05503081/RECORD/06596034.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DEC
1	6/25/01	AS BID	DEC
2	8/18/05	FOR RECORD	DR

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

In charge of RJS

Designed by AMP

Drawn by AMP

Checked by VDM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

SHUMAKER
Consulting Engineering & Land Surveying, P.C.
320 North Jensen Road
Vestal, NY 13850-2150

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

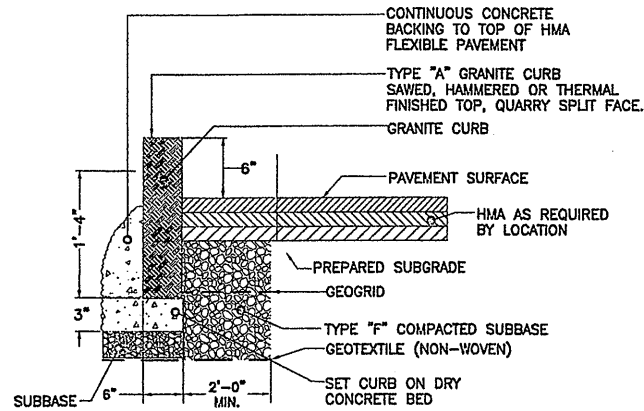
MISCELLANEOUS DETAILS

GENERAL

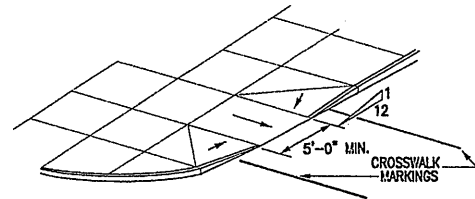
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Date APRIL 2001

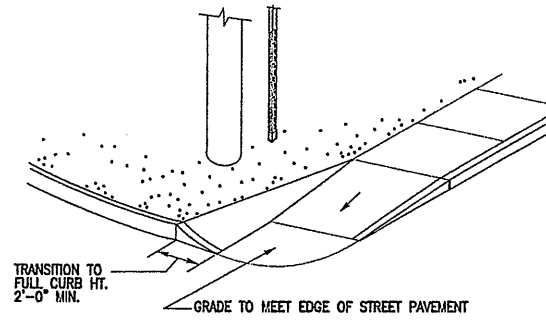
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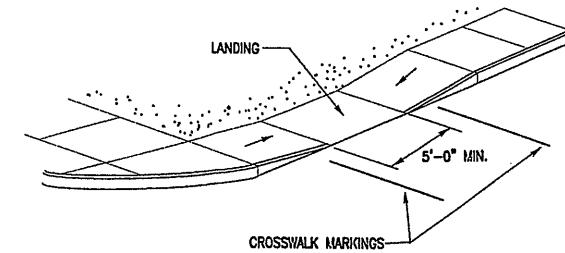
TYPE "A" GRANITE CURB DETAIL
NOT TO SCALE



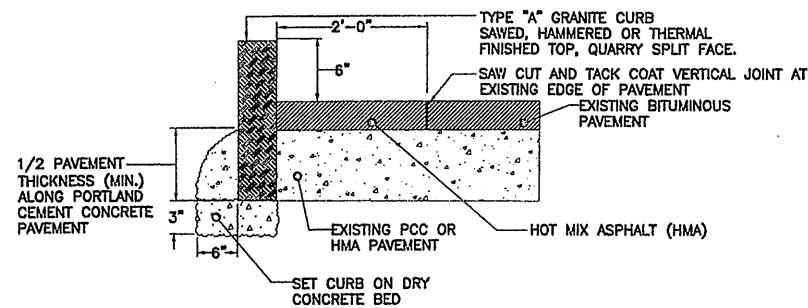
PERPENDICULAR PUBLIC SIDEWALK CURB RAMP
NOT TO SCALE



PUBLIC SIDEWALK CURB RAMP
NOT TO SCALE

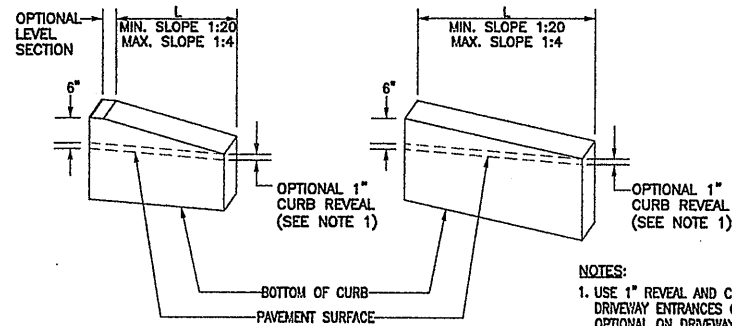


PARALLEL PUBLIC SIDEWALK CURB RAMP
NOT TO SCALE



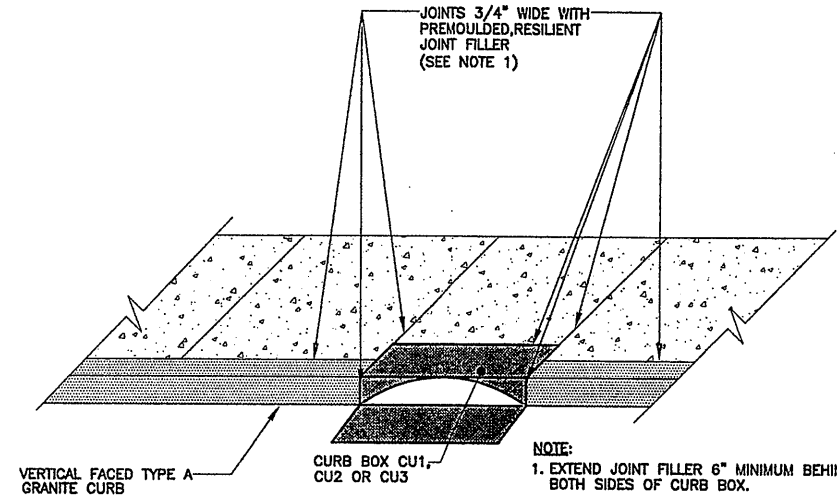
- NOTES:**
1. MATCH TO EXISTING CURB TOP ELEVATION.
 2. VOID BETWEEN QUARRY SPLIT FACE OF NEW GRANITE CURB AND EXISTING PAVEMENT SHALL BE FILLED WITH A DRY CEMENT/SAND MIX UNTIL SUFFICIENT SEPARATION (1") ALLOWS PLACEMENT OF GROUT, THEN CONCRETE AS DISTANCE WIDENS. WHEN A 2'-0" SEPARATION IS ACHIEVED, COMPACTED SUBBASE SHALL BE PLACED.

GRANITE CURB-HIAWATHA BOULEVARD DETAIL
NOT TO SCALE

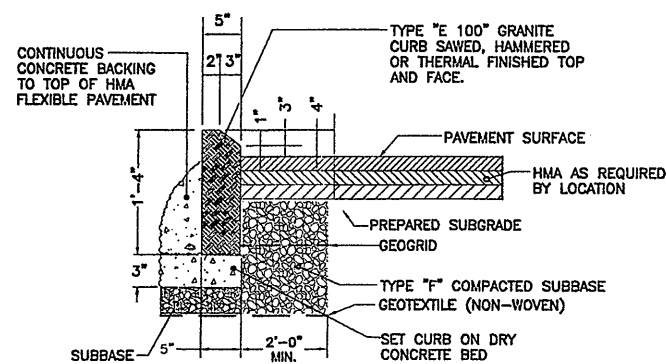


GRANITE CURB TRANSITIONS DETAIL
NOT TO SCALE

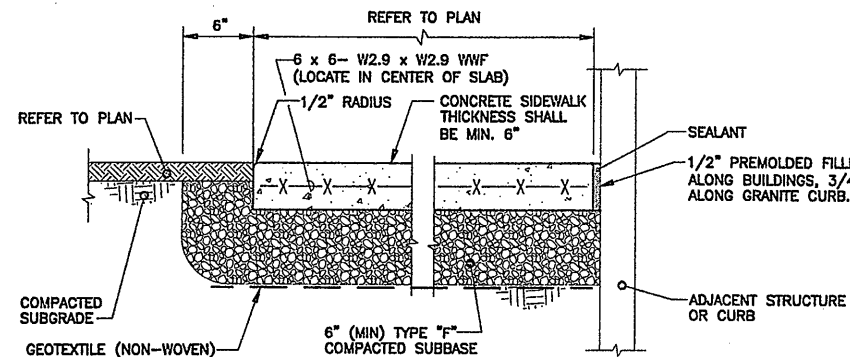
- NOTES:**
1. USE 1" REVEAL AND CONTINUE CURB ACROSS DRIVEWAY ENTRANCES ONLY IF SHOWN NOT TO BE OPTIONAL ON DRIVEWAY DETAILS SPECIFIED IN CONTRACT DOCUMENTS, OR DIRECTED BY THE ENGINEER.
 2. TERMINATE CURB BY TRANSITIONING ON A MAXIMUM SLOPE OF 1:12 TO PAVEMENT SURFACE, EXCEPT WHEN BEHIND GUARDRAIL.



CURB AND CURB BOX ADJACENT TO CONCRETE SIDEWALK DETAIL
NOT TO SCALE

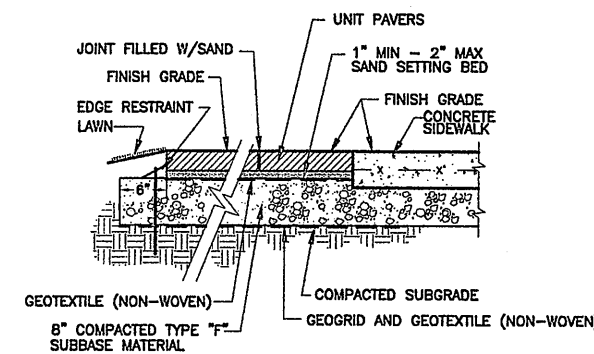


TYPE "E100" GRANITE CURB DETAIL
NOT TO SCALE

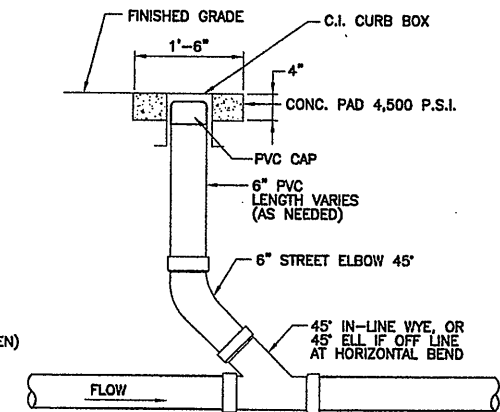


- NOTES:**
1. WHERE HOT MIX ASPHALT PAVEMENT IS PLACED AGAINST SIDEWALK, VERTICAL FACE SHALL BE TACK COATED.
 2. ALL SIDE AND JOINT EDGES SHALL BE RE-EDGED FOLLOWING BROOM FINISH.
 3. FINISHED SIDEWALK TO RECEIVE TWO COATS OF CLEAR CURING COMPOUND.

TYPICAL SIDEWALK DETAIL
NOT TO SCALE



UNIT PAVER DETAIL
NOT TO SCALE



SEWER CLEANOUT DETAIL
NOT TO SCALE

RECORD DRAWING

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No.	Date	Revisions	Init
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1	6/25/01	AS BID	[Signature]
2	8/18/05	FOR RECORDS	[Signature]

In charge of: RJS
Designed by: AMP
Drawn by: AMP
Checked by: VDM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

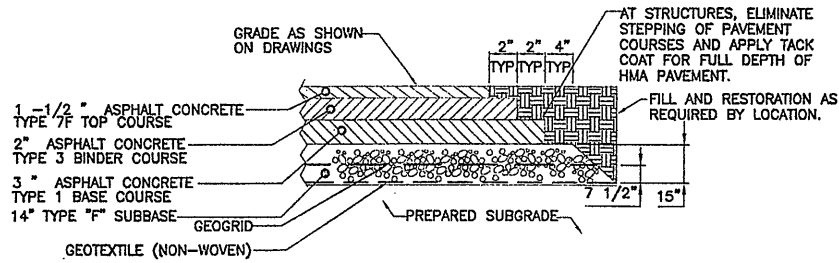
SHUMAKER
Consulting Engineering & Land Surveying, P.C.
320 North Jensen Road
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

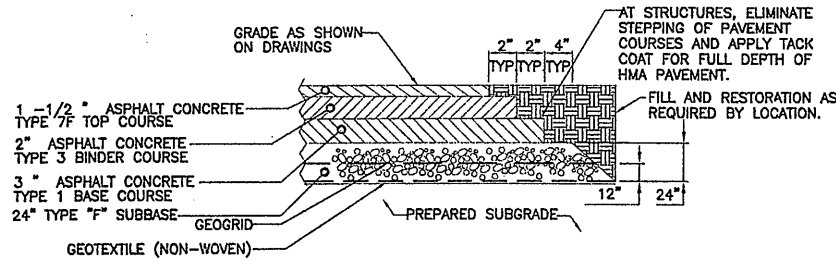
MISCELLANEOUS DETAILS

GENERAL

File Number 00659	G-035
Date APRIL 2001	

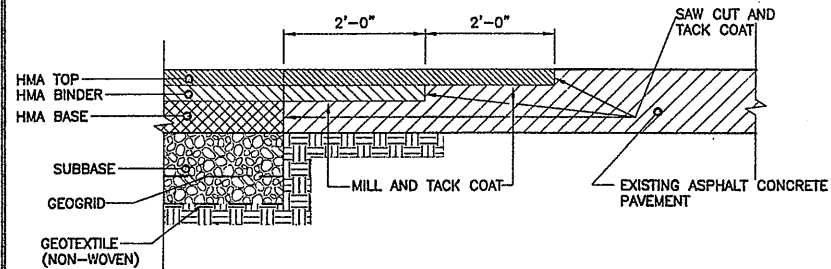


HOT MIX ASPHALT (HMA) PAVEMENT DETAIL
NOT TO SCALE

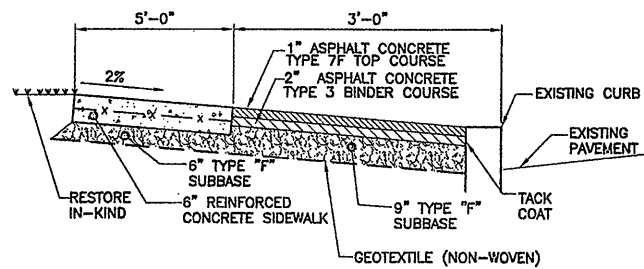


HOT MIX ASPHALT (HMA) PAVEMENT DETAIL-20" GAS MAIN
NOT TO SCALE

NOTE:
1. SEE "ROADS-LAYOUT PLAN" FOR THE PORTION OF PAVEMENT SLOPE CROSS SECTION E-E THAT REQUIRES 24" OF TYPE "F" SUBBASE.

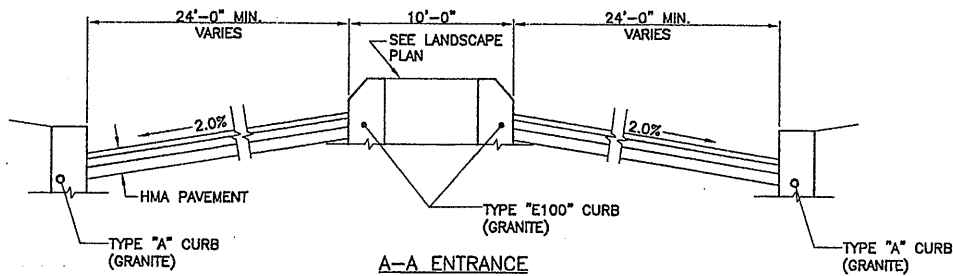


MATCH INTO EXISTING ASPHALT CONCRETE PAVEMENT DETAIL
NOT TO SCALE

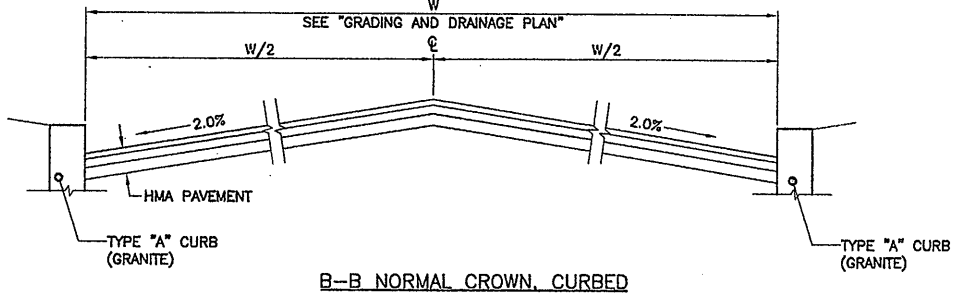


TYPICAL SIDEWALK SECTION-HIAWATHA BOULEVARD DETAIL HB-1
NOT TO SCALE

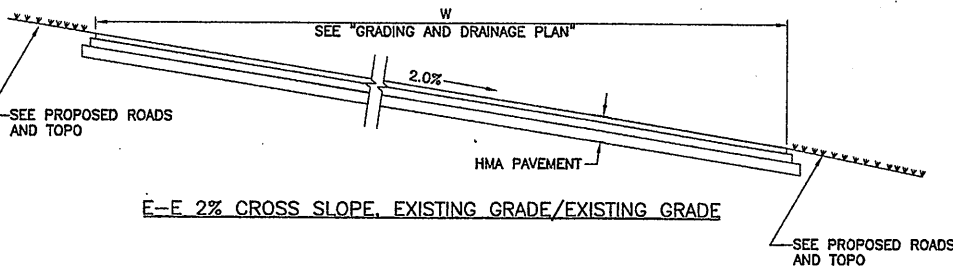
NOTES:
1. FINAL SIDEWALK ALIGNMENT TO BE AS DIRECTED BY CONSTRUCTION MANAGER.
2. NEW SIDEWALK TO MATCH ELEVATION OF BARGE CANAL BRIDGE SOUTHERLY BACKWALL.
3. AT BARGE CANAL BRIDGE, CONCRETE SIDEWALK MAY BE WIDENED TO MATCH TO BACK OF EXISTING CURB UNTIL ADEQUATE WIDTH IS OBTAINED BETWEEN CURB AND SIDEWALK FOR PLACEMENT AND COMPACTION OF ASPHALT CONCRETE COURSES.



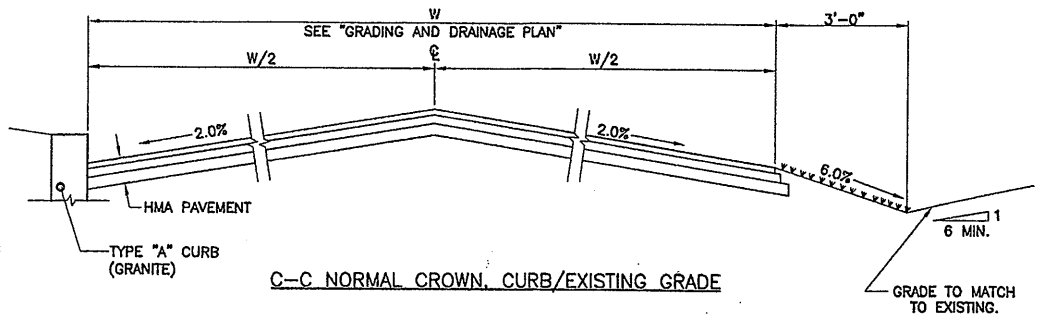
A-A ENTRANCE



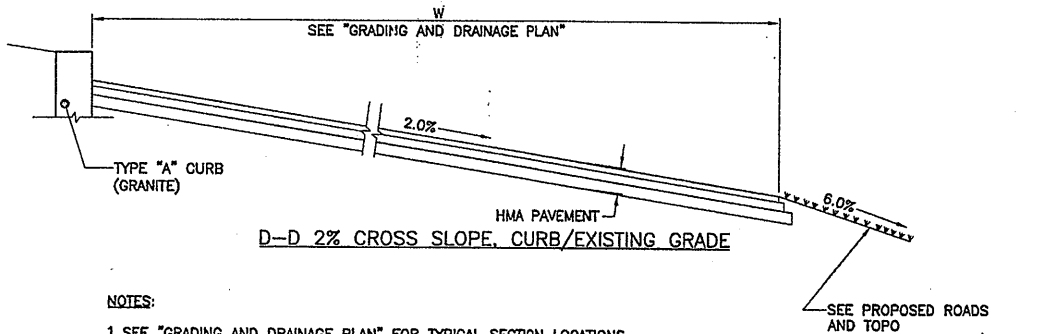
B-B NORMAL CROWN, CURBED



E-E 2% CROSS SLOPE, EXISTING GRADE/EXISTING GRADE



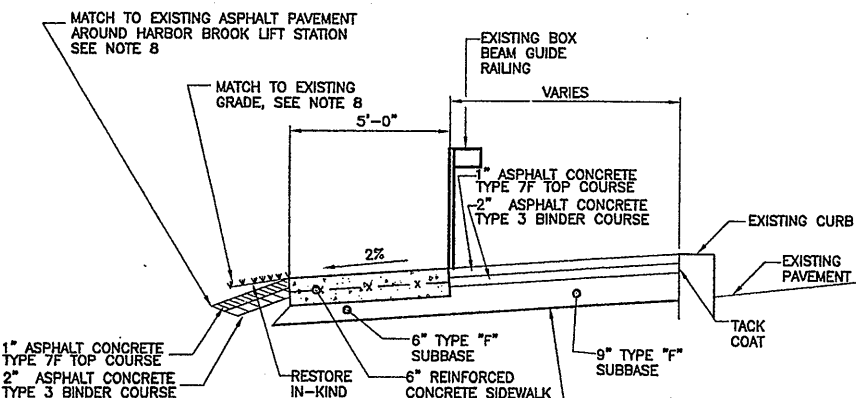
C-C NORMAL CROWN, CURB/EXISTING GRADE



D-D 2% CROSS SLOPE, CURB/EXISTING GRADE

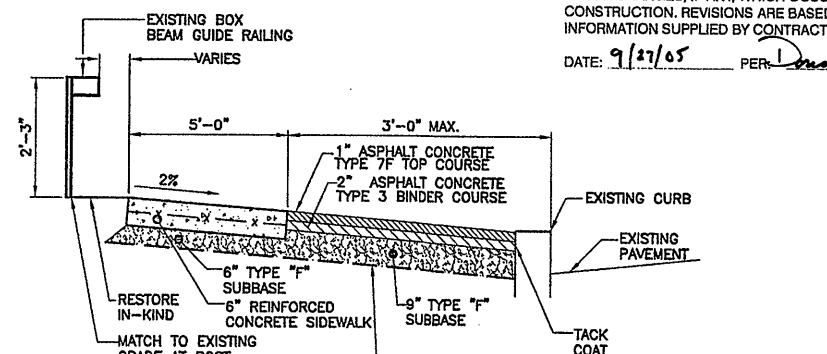
NOTES:
1. SEE "GRADING AND DRAINAGE PLAN" FOR TYPICAL SECTION LOCATIONS.
2. ALL REFERENCES TO NYSDOT STANDARD SPECIFICATIONS, OR STANDARD SPECIFICATIONS, MEAN THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, OFFICE OF ENGINEERING (JANUARY 2, 1995) WITH ADDENDA NO. 1 AND 2 THERETO. ALL REFERENCE TO THE NYSDOT SHALL MEAN THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 17B NYCRR.
3. SEE "HOT MIX ASPHALT (HMA) PAVEMENT DETAIL" FOR HMA AND SUBBASE CONSTRUCTION DETAILS FOR ALL SECTIONS.
4. SEE "HOT MIX ASPHALT (HMA) PAVEMENT DETAIL-20" GAS MAIN" FOR THE PORTION OF SECTION E-E THAT REQUIRES 24" OF TYPE F SUBBASE.
5. ALL NEW TYPE A AND TYPE E100 GRANITE CURB TO BE PROVIDED WITH UNDERDRAINS. SEE "UNDERDRAIN DETAIL".

PAVEMENT SLOPE CROSS SECTION DETAILS
NOT TO SCALE



TYPICAL SIDEWALK SECTION-HIAWATHA BOULEVARD DETAIL HB-2
NOT TO SCALE

4. EXISTING BOX BEAM GUIDE RAIL ADJACENT THE HARBOR BROOK PUMP STATION SHALL REMAIN. IN AREA OF PUMP STATION, SIDEWALK SHALL BE PLACED DIRECTLY BEHIND GUIDERAIL POSTS.
5. NEW BOX BEAM GUIDERAIL TO BE INSTALLED AS DETAILED ON NYSDOT STANDARD SHEET M606-3 ISSUED UNDER NYSDOT ENGINEERING INSTRUCTION 96-019.
6. SIGNAGE REQUIRING RELOCATION TO BE INSTALLED AS ILLUSTRATED IN THE NYSDOTCD.
7. WIDTH MAY VARY AS DIRECTED BY CONSTRUCTION MANAGER.



TYPICAL SIDEWALK SECTION-HIAWATHA BOULEVARD DETAIL HB-3
NOT TO SCALE

8. IN THE AREA OF THE EXISTING GUIDERAIL ASPHALT SHALL BE PAVED BETWEEN THE NEW SIDEWALK AND THE EXISTING ASPHALT PAVEMENT AROUND THE HARBOR BROOK LIFT STATION. IN ALL OTHER AREAS THE AREA DISTURBED BEHIND THE SIDEWALK SHALL BE RESTORED IN KIND TO EXISTING CONDITIONS.

RECORDS DRAWINGS
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 9/27/05 PER: Donald F.P.

Layer: ON=*, OFF=*REF*
06/25/01 SCE AMP
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NOT TO SCALE
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFP
1	6/25/01	AS BID	DFP
2	4/29/04	CHANGED 15" OF SUBBASE TO 14"	JMC
3	8/24/04	REV DETAIL HB-2	JMC
4	9/21/05	FOR RECORDS	DFP

In charge of RJS
Designed by AMP
Drawn by AMP
Checked by VDM

ENVIRONMENTAL ENGINEERING ASSOCIATED, L.L.P.
SYRACUSE, NEW YORK

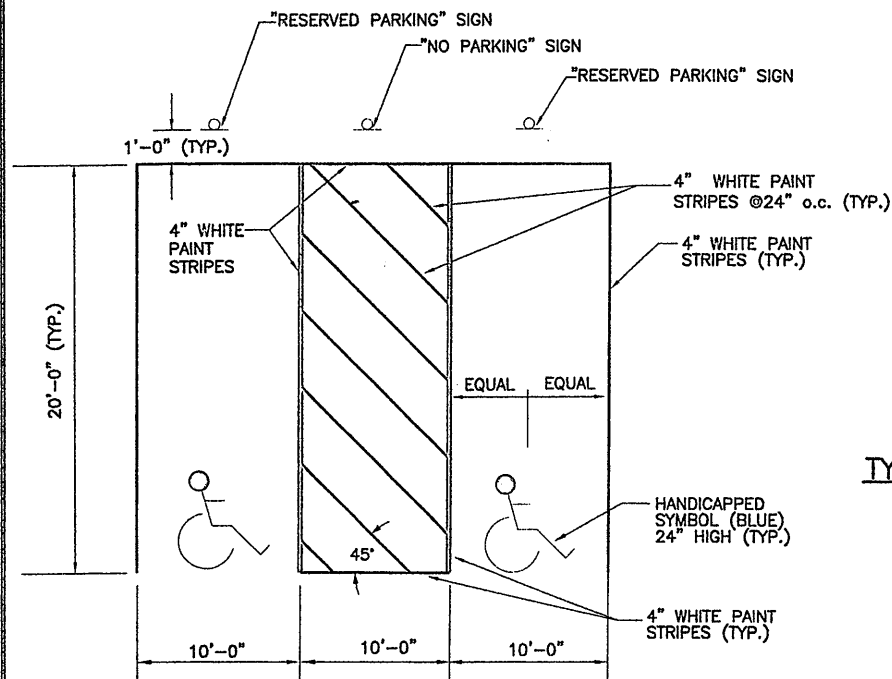
SHUMAKER
Consulting Engineering & Land Surveying, P.C.
320 North Herkese Road
Vestal, NY 13850-2150

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

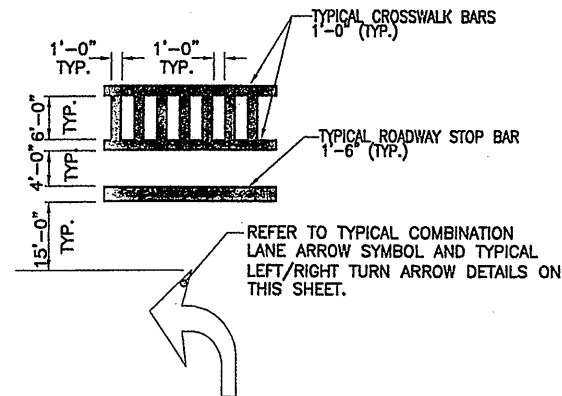
MISCELLANEOUS DETAILS

File Number
00659
Date
APRIL 2001
G-036

GENERAL



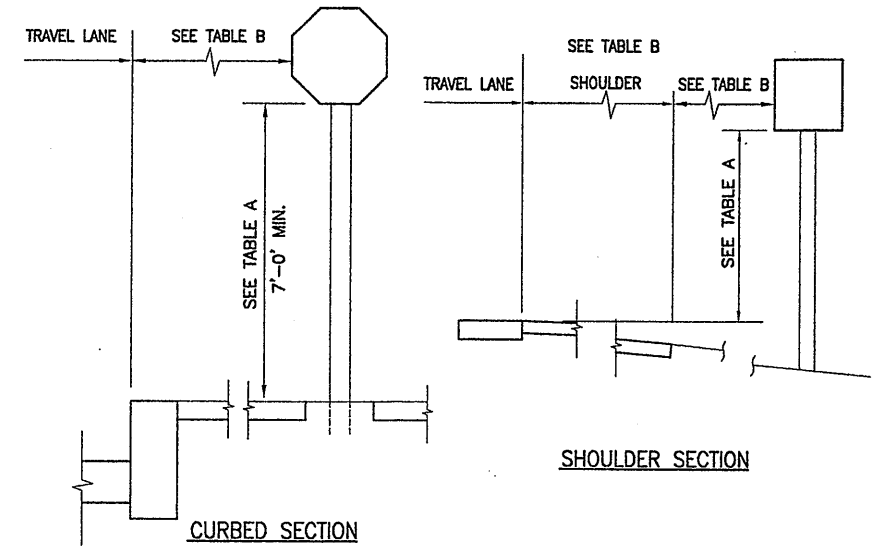
HANDICAPPED PARKING DETAIL
NOT TO SCALE



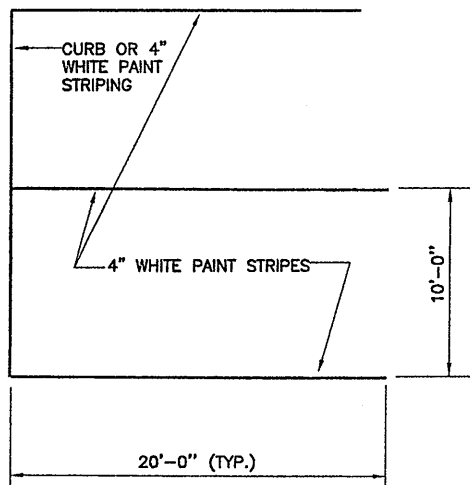
TYPICAL PAVEMENT MARKING DETAIL
NOT TO SCALE

VERTICAL DISTANCE TO THE BOTTOM OF THE SIGN		
TABLE A	CONVENTIONAL HIGHWAYS AND EXPRESSWAYS	
	NO PARKED VEHICLES OR PEDESTRIANS	PARKED VEHICLES OR PEDESTRIANS
M.U.T.C.D. CODE R, P, W, M	5'-0"	7'-0"

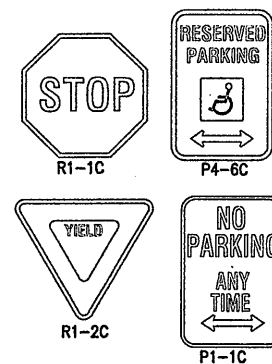
LATERAL CLEARANCE TO THE EDGE OF THE SIGN			
TABLE B	URBAN CONVENTIONAL HIGHWAYS		
	SHOULDER WIDTH OF LESS THAN 6'-0"	SHOULDER WIDTH OF 6'-0" OR GREATER	CURBED SECTIONS
M.U.T.C.D. CODE R, P, W, M, G, & I	12'-0" FROM THE EDGE OF TRAVEL LANE WHERE FEASIBLE OR 2'-0" MIN.	6'-0" MIN. FROM THE SHOULDER EDGE WHERE FEASIBLE OR 2'-0" MIN.	2'-0" MIN. FROM THE CURB FACE



TYPICAL SIGNAGE INSTALLATION DETAIL
NOT TO SCALE



STANDARD PARKING STALL DETAIL
NOT TO SCALE



TYPICAL SIGNAGE TEXT DETAIL
NOT TO SCALE

NOTES:

- ALL REFERENCES TO THE NYS DOT STANDARD SPECIFICATIONS, OR STANDARD SPECIFICATIONS, SHALL MEAN THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, OFFICE OF ENGINEERING (JANUARY 2, 1995) WITH ADDENDA NO. 1 AND 2 THERETO. ALL REFERENCES TO THE NYS MUTCD SHALL MEAN THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 17B NYCRR.
- ALL SIGNAGE AND PAVEMENT MARKINGS TO BE INSTALLED AS ILLUSTRATED IN THE NYS MUTCD.
- ALL EXISTING SIGNAGE ALONG HIAWATHA BOULEVARD REQUIRING RELOCATION BECAUSE OF NEW SIDEWALK CONSTRUCTION, SHALL BE RE-INSTALLED AS ILLUSTRATED IN THE NYS MUTCD.

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

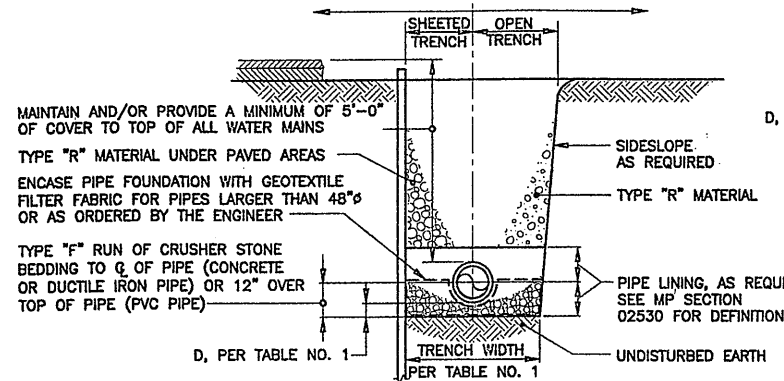
DATE: 9/27/05 PER: [Signature]

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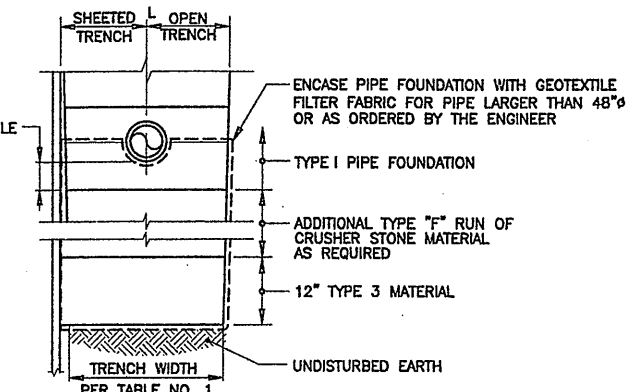
Layer: ON=*, OFF=REF*
09/19/05 SCE DMP BBL KMD
05503081/RECORD/06596037.DWG

NOT TO SCALE	No.	Date	Revisions	Init	In charge of	RJS	ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP SYRACUSE, NEW YORK	SHUMAKER Consulting Engineering & Land Surveying, P.C. 320 North Jensen Road Vestal, NY 13850-2150	ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT	File Number	00659	G-037
	0	4/20/01	ISSUED FOR APPROVAL	[Signature]	Designed by	AMP				Date	APRIL 2001	
	1	6/25/01	AS BID	[Signature]	Drawn by	AMP						
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW					2	8/18/05	FOR RECORD	[Signature]	Checked by	VDM		

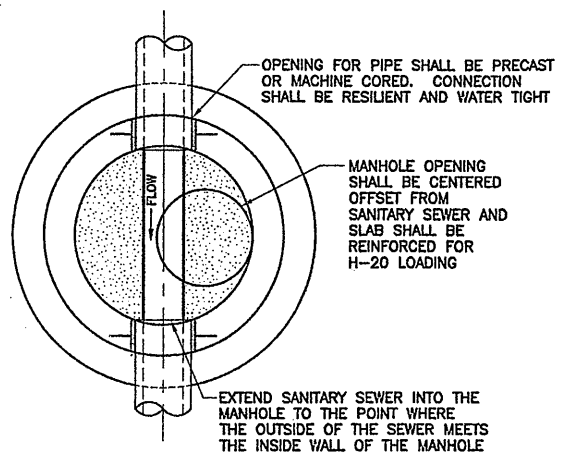
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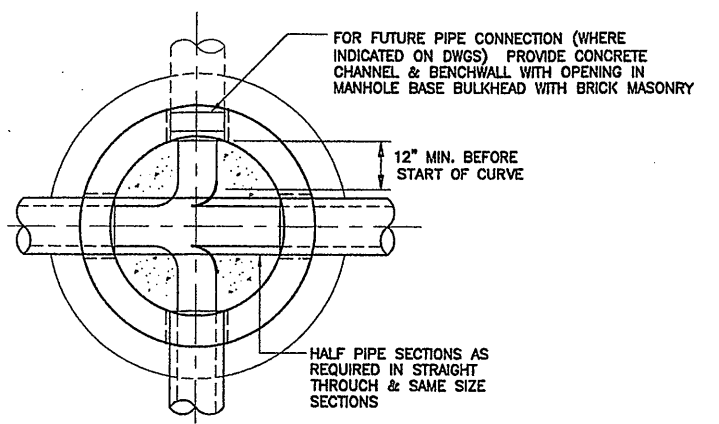
**TYPE I
PIPE FOUNDATION/TRENCH
FOR STABLE SOILS**



**TYPE II
IMPROVED PIPE FOUNDATION
FOR UNSTABLE SOILS**



**TYPICAL TYPE 2 MANHOLE PLAN
NOT TO SCALE**



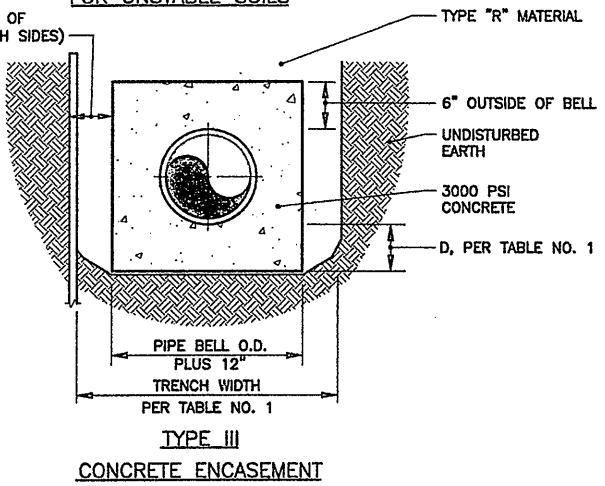
**TYPICAL BENCHWALL DETAIL
NOT TO SCALE**

**TABLE NO. 1
TRENCH WIDTH EXCAVATION LIMITS**

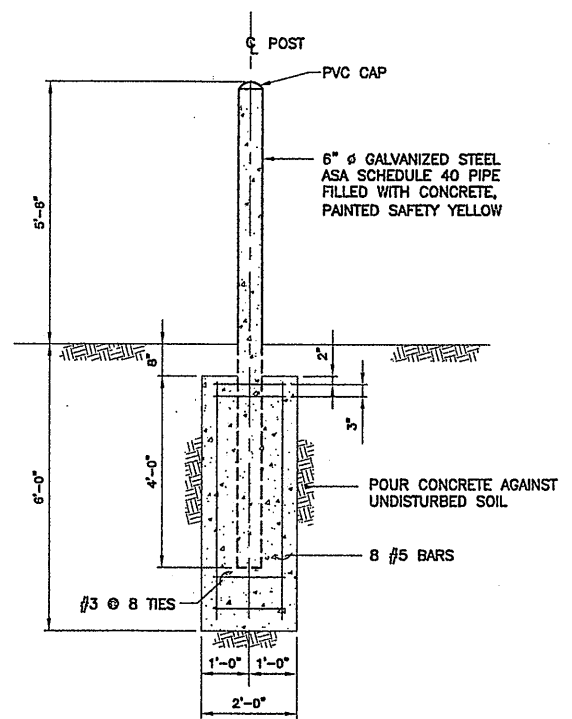
PIPE I.D.	WIDTH		D
	MAXIMUM	MINIMUM	
4", 6"	3'-0"	2'-0"	4"
8", 10"	3'-6"	2'-2"	4"
12"	3'-9"	O.D. + 2"	4"
14", 15", 18"	3'-9"	O.D. + 2"	4"
18"	4'-4"	O.D. + 2"	6"
20", 21"	4'-8"	O.D. + 2"	6"
24"	4'-11"	O.D. + 2"	6"
27"	5'-3"	O.D. + 2"	6"
30"	5'-6"	O.D. + 2"	6"
36"	0'-1"	O.D. + 2"	6"
42"	O.D. + 3"	O.D. + 2"	8"
48"	O.D. + 3"	O.D. + 2"	8"
54"	O.D. + 3"	O.D. + 2"	8"
60"	O.D. + 3"	O.D. + 2"	8"
66"	O.D. + 3"	O.D. + 2"	12"
72"	O.D. + 3"	O.D. + 2"	12"
78"	O.D. + 3"	O.D. + 2"	12"
84"	O.D. + 3"	O.D. + 2"	12"
90"	O.D. + 3"	O.D. + 2"	12"

D = DEPTH BETWEEN BOTTOM OF PIPE AND BOTTOM OF NORMAL PIPE FOUNDATION
OD = OUTSIDE DIAMETER
IF MAXIMUM WIDTH IS EXCEEDED, CONCRETE ENCASEMENT SHALL BE INSTALLED TO UNDISTURBED EARTH
REFER TO MP SECTION 02530 FOR LIMITS OF PAYMENT

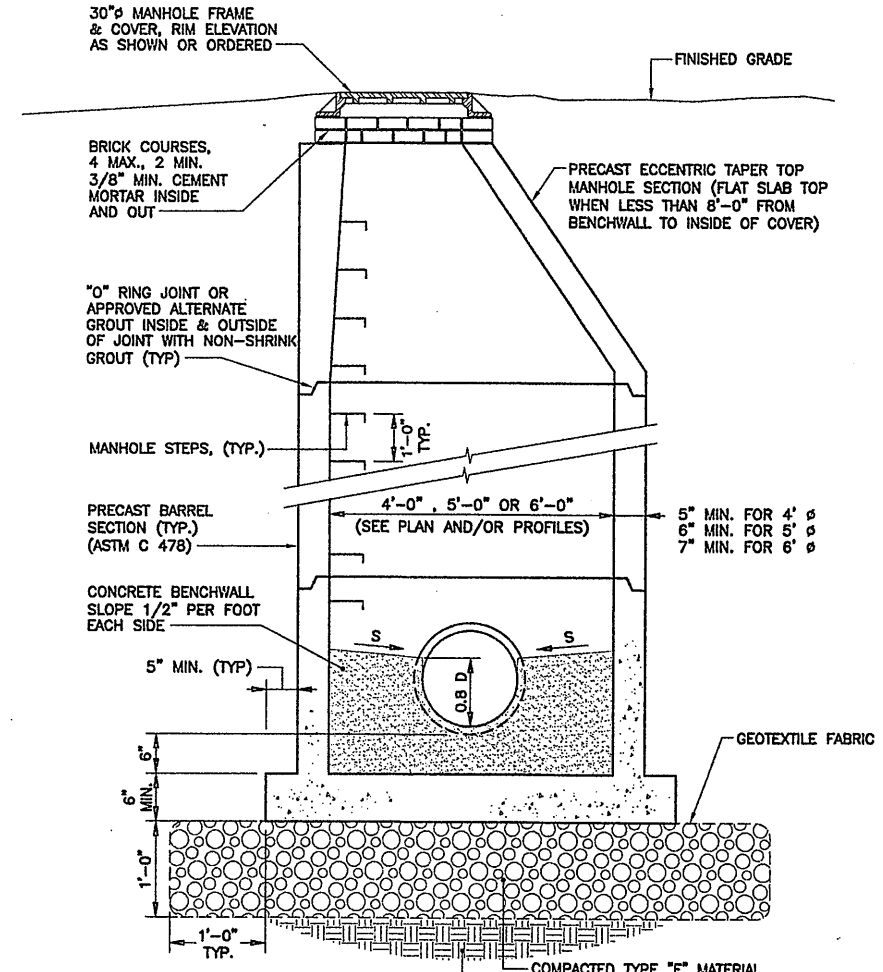
**PIPE FOUNDATION/TRENCH DETAILS
NOT TO SCALE**



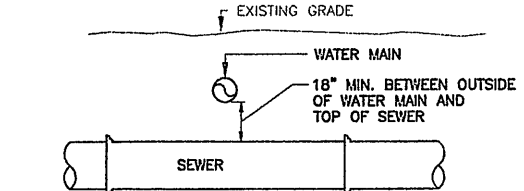
**TYPE III
CONCRETE ENCASEMENT**



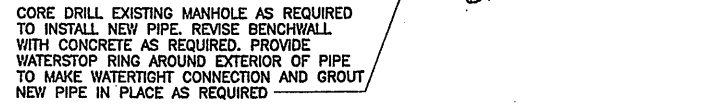
**PIPE BOLLARD DETAIL
NOT TO SCALE**



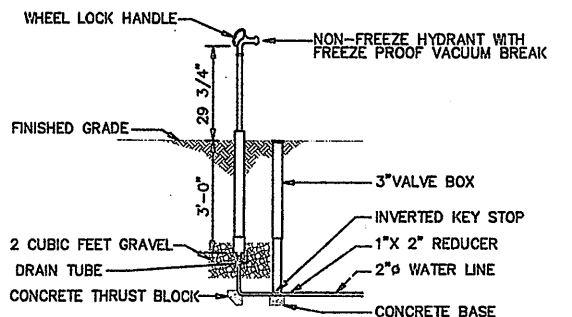
**TYPE 2 PRECAST MANHOLE SECTION
NOT TO SCALE**



**TYPICAL WATER & SEWER CROSSING
NOT TO SCALE**



**TYPICAL CONNECTION TO EXISTING MH DETAIL
(SEE PLANS FOR PIPE SIZES AND ALIGNMENTS.)
NOT TO SCALE**



**YARD HYDRANT DETAIL
NOT TO SCALE**

NOTE:
WHERE IT IS NOT POSSIBLE TO MAINTAIN A MINIMUM SEPARATION OF TEN (10) FEET HORIZONTALLY AND EIGHTEEN (18) INCHES VERTICALLY BETWEEN WATER MAINS AND SANITARY SEWERS, THE SEWER LINE SHALL BE CONSTRUCTED OF PRESSURE TYPE JOINTS OF DUCTILE IRON PIPE AND SHALL BE PRESSURE TESTED TO 150 PSI TO ASSURE WATER TIGHTNESS

CORE DRILL EXISTING MANHOLE AS REQUIRED TO INSTALL NEW PIPE. REVISE BENCHWALL WITH CONCRETE AS REQUIRED. PROVIDE WATERSTOP RING AROUND EXTERIOR OF PIPE TO MAKE WATERTIGHT CONNECTION AND GROUT NEW PIPE IN PLACE AS REQUIRED

RECORD DRAWING
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DATE: 9/26/05 PER: Donald F. J.

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Layer: ON=*, OFF=*REF*
09/19/05 BBL DCC LAF KMD
05503081/RECORD/06596038.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	DFG
1	7/3/05	AS BID	D.P.
2	8/18/08	FOR RECORDS	D.P.

In charge of: DFG
Designed by: CJL/SS
Drawn by: DCC
Checked by: JCP

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number: 00659
Date: APRIL 2001
G-038

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

MISCELLANEOUS DETAILS

GENERAL

ABBREVIATIONS

A	
ACT.	AND ACUSTICAL CEILING TILE
A.F.F.	ABOVE FINISH FLOOR
AL OR ALUM.	AL OR ALUMINUM
ADJ.	ADJUSTABLE
AHU	AIR HANDLING UNIT
B	
B.F.	BLOCK FILLER
BOT.	BOTTOM
BLDG.	BUILDING
BRNG.	BEARING
BUR.	BUILT UP ROOF
C	
CAR.	CARPET
CL	CENTER LINE
CT	CERAMIC TILE
CMU	CONCRETE MASONRY UNIT
COL.	COLOR
COMBO	COMBINATION
CONF.	CONFERENCE
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
COV.	COVER
D	
γ _d	SOIL DENSITY (DRY)
DET.	DETAIL
DIA. #	DIAMETER
DN	DOWN
DWG.	DRAWING
DO	DITTO
E	
EA	EACH
EL. OR ELEV.	ELEVATION
ELEC.	ELECTRIC
ERB	ELECTRICAL RACEWAY BASEBOARD
EX	EXPOSED
EXP.	EXPANSION
EXIST.	EXISTING
EQUIP.	EQUIPMENT
E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EQ.	EQUAL
F	
FD	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
FF	FACTORY FINISH
FIN.	FINISH
FIN. FL.	FINISH FLOOR
FL	FLOOR
FRP	FIBERGLASS REINFORCED POLYESTER
FT OR ' "	FEET OR FOOT
F.V.	FIELD VERIFY
G	
GWB	GYPSUM WALL BOARD
GA	GAGE
GALV.	GALVANIZED
GL	GLASS
GR	GRADE
H	
HM	HOLLOW METAL
H, HGT OR HT	HEIGHT
HR	HOUR
HOR.	HORIZONTAL
I	
IN. OR " "	INCH
INSUL.	INSULATION
INT.	INTERIOR
J	
JT.	JOINT
L	
L	ANGLE
LAB.	LABORATORY
LV	LOUVER
LLV	LONG LEG VERTICAL
LLH	LONG LEG HORIZONTAL

M	
MAT	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
M.O.	MASONRY OPENING
MFR.	MANUFACTURER
MIN.	MINIMUM
MAR	MARBLE
MISC.	MISCELLANEOUS
N	
NO. OR #	NUMBER
N.T.S.	NOT TO SCALE
O	
O.C.	ON CENTER
OPG.	OPENING
O.H.	OVERHEAD
P	
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PT	PAINT
PR	PAIR
PRE.	POWERED ROOF EXHAUSTER
P.T.	PRESSURE TREATED
PLUMB.	PLUMBING
Q	
QT	QUARRY TILE
R	
R.	RISER
R.D.	ROOF DRAIN
REFRIG.	REFRIGERATOR
RM	ROOM
REINF.	REINFORCEMENT
RAD.	RADIUS
REQ.	REQUIRED
RO	ROUGH OPENING
S	
SIM.	SIMILAR
SPEC.	SPECIFICATIONS
S.S.	STAINLESS STEEL
STL	STEEL
SHT	SHEET
SQ.	SQUARE
STRUCT.	STRUCTURAL
T	
T.	TREAD
T/ OR T.O.	TOP OF
TYP.	TYPICAL
T.O.S.	TOP OF STEEL
TERR.	TERRAZZO
TEL	TELEPHONE
V	
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
W	
W/	WITH
WD	WIDTH
WOOD	WOOD

SYMBOLS LEGEND

	CONCRETE
	EARTH
	GRAVEL
	PEA GRAVEL
	CONC. MASONRY UNIT
	CONC. MASONRY UNITS ELEVATION VIEW
	FRACTURED FACE CMU
	CMU
	GROUT
	STEEL
	ALUMINUM
	PLASTIC
	BATT INSULATION
	RIGID INSULATION
	CAVITY INSULATION
	RETURN AIR

ARCHITECTURAL SYMBOLS LEGEND

	DIRECTION NORTH (PLAN NORTH ASSUMED FOR ALL FLOOR AND BUILDING PLANS AT TOP OF EACH SHEET UNLESS OTHERWISE NOTED.)
	SECTION AND OR DETAIL INDICATOR
	REFERENCE DETAIL INDICATOR
	REFERENCE SECTION INDICATOR
	REVISION NUMBER
	DOOR NUMBER INDICATOR
	WINDOW TYPE INDICATOR
	ROOM NUMBER INDICATOR
	PARTITION TYPE

RECORD DRAWING

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DATE: 12-1-05 PER: TWS

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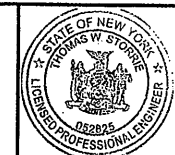
02/26/01 OBG RAE
0659A001

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	TWS
1		AS BID	TWS
2	10/31/05	RECORD DRAWING	TWS

In charge of TWS
Designed by TWS
Drawn by RAE
Checked by TWS



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

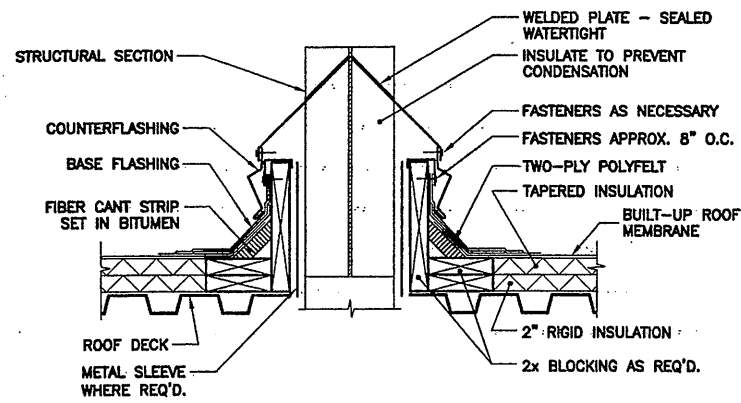


File Number
00659
Date
APRIL 2001

A-001

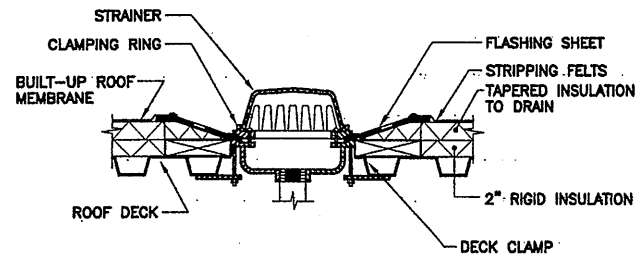
SYMBOLS, ABBREVIATIONS & NOTES
ARCHITECTURAL

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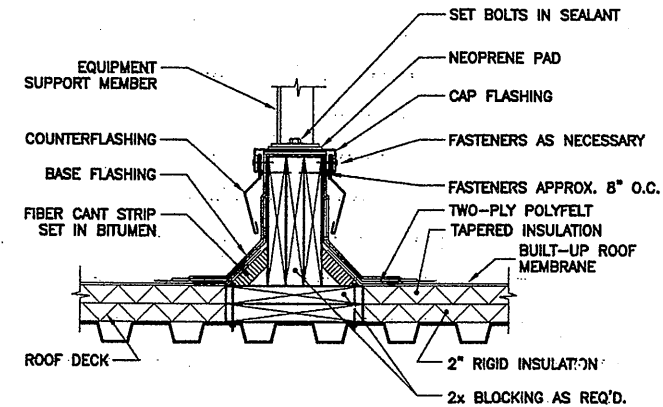
FLASHING STRUCTURAL MEMBER DETAIL

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



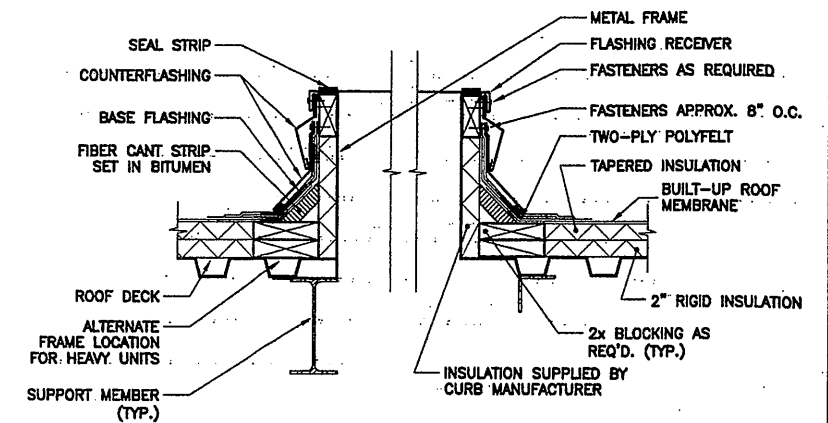
ROOF DRAIN DETAIL

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



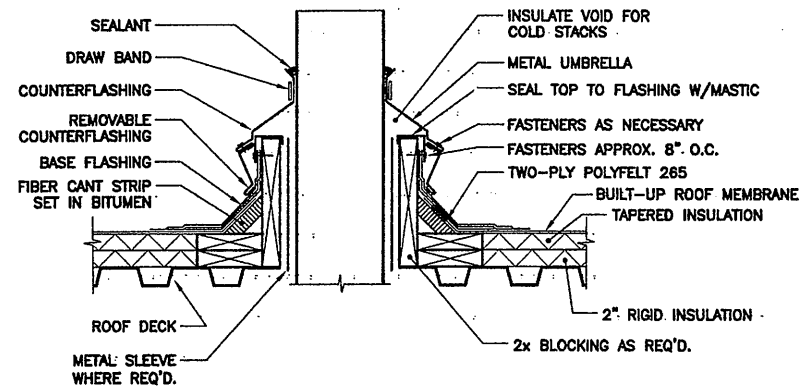
EQUIPMENT SUPPORT DETAIL

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



CURB DETAIL

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



STACK FLASHING DETAIL

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

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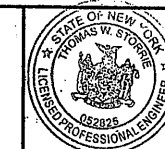
02/26/01 OBG RJB
0659A002

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	TWS
1		AS BID	TWS
2	10/31/05	RECORD DRAWING	TWS

In charge of: TWS
Designed by: BDM
Drawn by: RJB
Checked by: BDM



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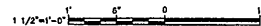


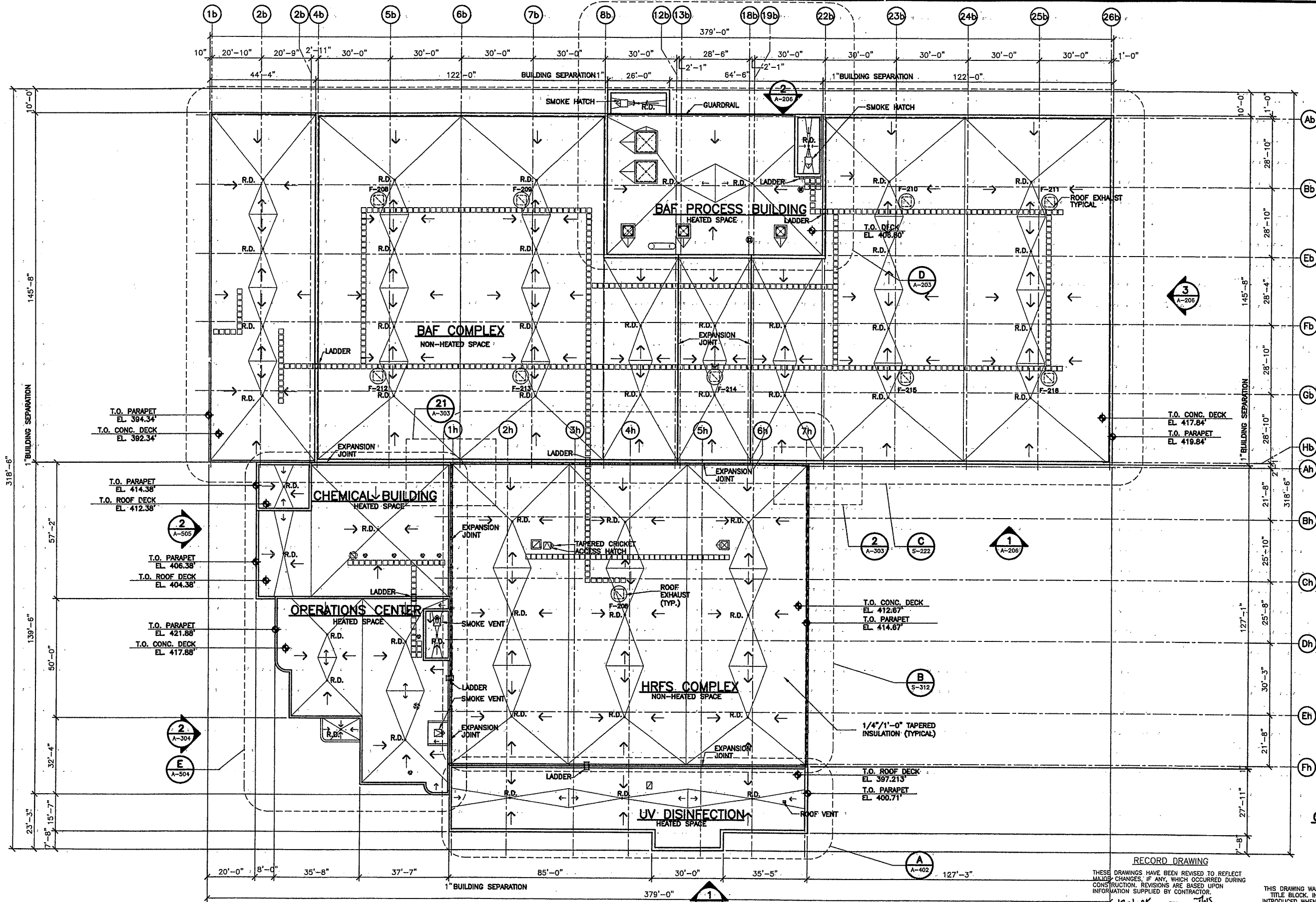
File Number
00659
Date:
APRIL 2001

A-002

MISCELLANEOUS ROOF DETAILS
ARCHITECTURAL

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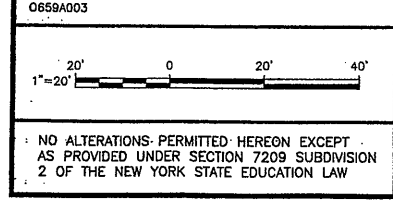


- GENERAL NOTES:**
1. CRICKETS: 1/2" x 1'-0" TAPERED CRICKET INSULATION, SIZED TO MAINTAIN MIN. 1/8" x 1'-0" @ VALLEYS.
 2. NON-HEATED SPACE: MIN. 1/2" INSULATION @ 18" FROM CENTER LINE OF ROOF DRAIN.
 3. HEATED SPACE: MIN. 3" INSULATION @ 18" FROM CENTER LINE OF ROOF DRAIN. OVERALL ROOF "R" VALUE MINIMUM R=30
 4. WALKPADS 2'-0" x 2'-0" TYPICAL
 5. PROVIDE TYPICAL ACCESS LADDERS BETWEEN ROOFS WHERE INDICATED.

OVERALL ROOF PLAN
SCALE: 1"=20'-0"

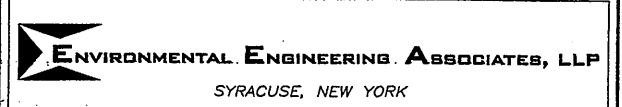
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No.	Date	Revisions	Init
0		AS BID	TWS
1	0/31/05	RECORD DRAWING	TWS

In charge of: TWS
Designed by: BDM
Drawn by: GC
Checked by: BDM

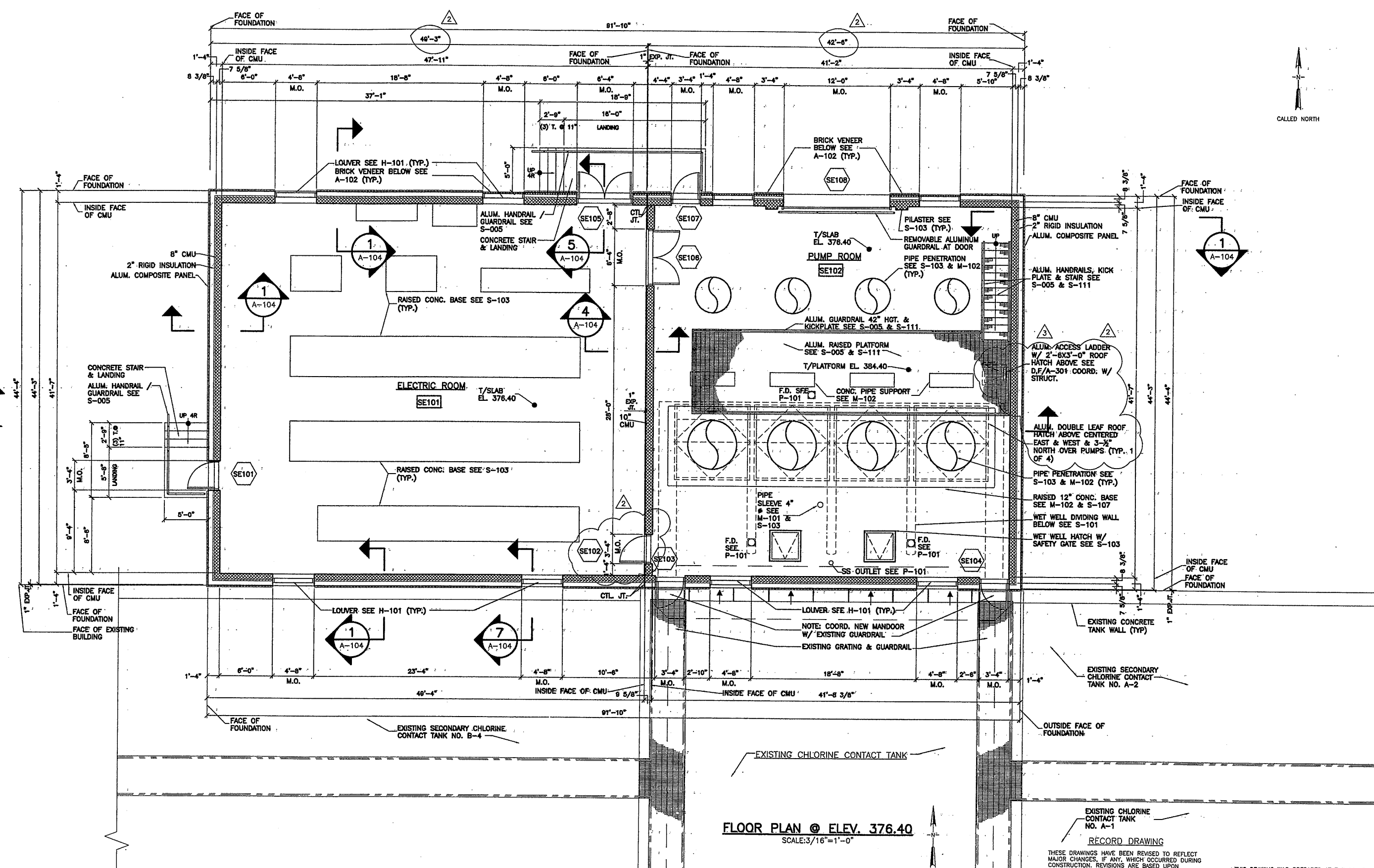
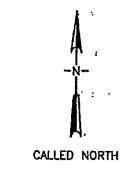


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OVERALL



File Number: 00659
Date: JUNE 2001
A-003

ROOF PLAN
ARCHITECTURAL



FLOOR PLAN @ ELEV. 376.40
SCALE: 3/16" = 1'-0"

EXISTING CHLORINE CONTACT TANK NO. A-1
RECORD DRAWING
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DATE: 12-1-05 PER: TWS

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02/20/01
00659A101

3/16" = 1'-0"

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	TWS
1	7/4/01	AS BID	TWS
2	5/22/02	REVISED FOR MODIFICATION 4A-003	TWS
3	7/25/02	ROOF HATCH	TWS
4	0/31/05	RECORD DRAWING	TWS

In charge of: TWS
Designed by: GC
Drawn by: GC
Checked by: TWS

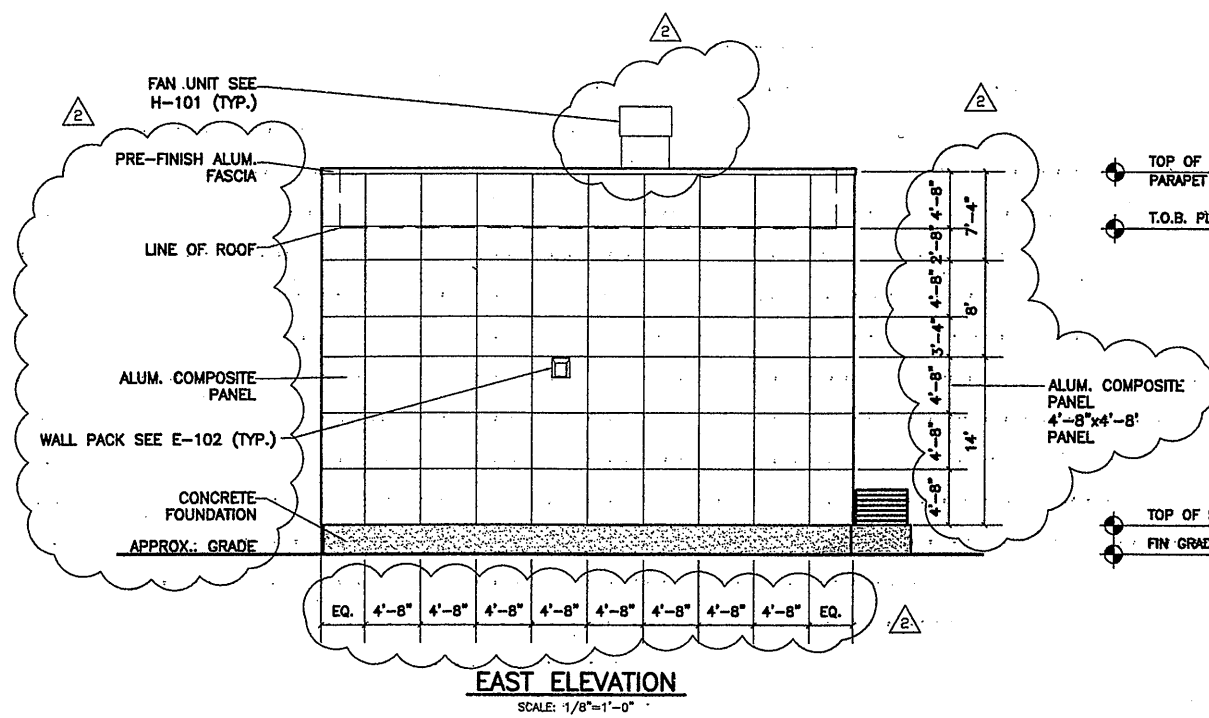
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

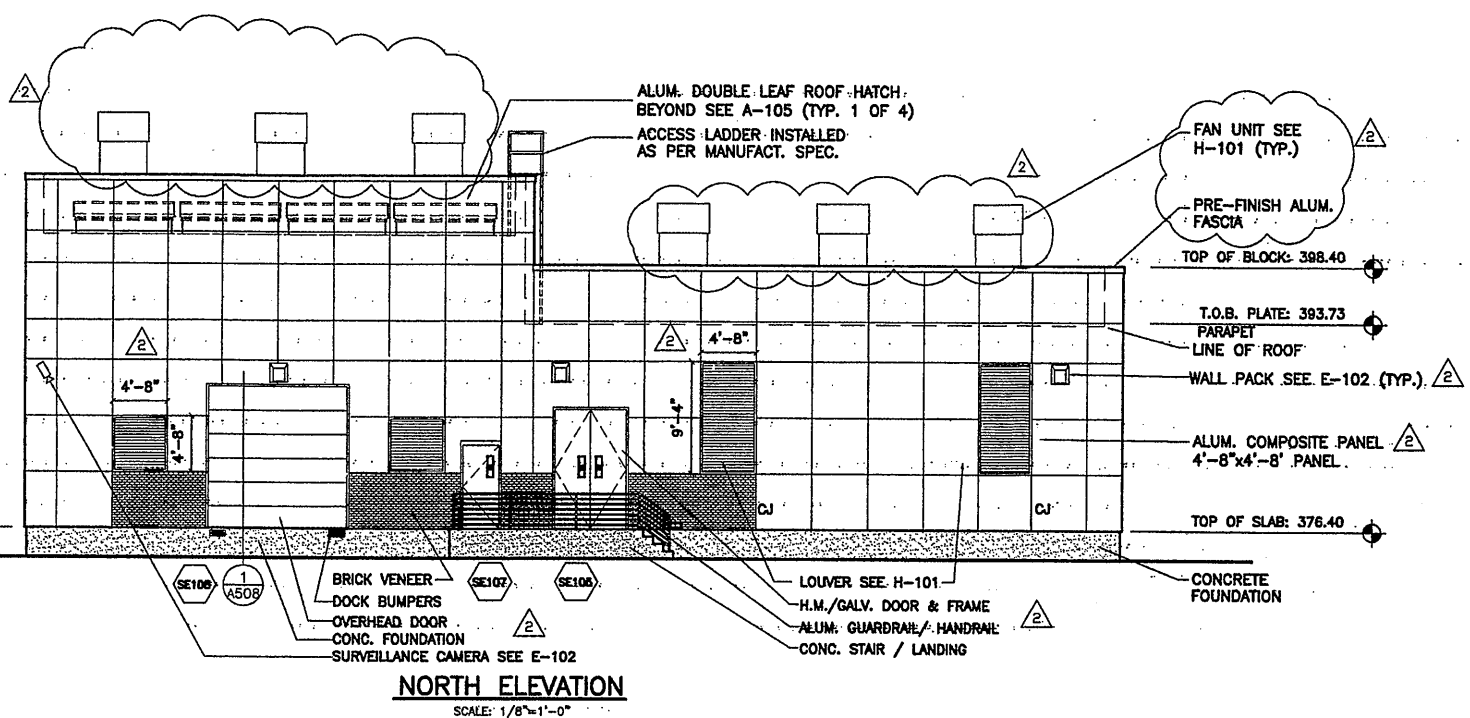
SECONDARY EFFLUENT PUMPING STATION FLOOR PLAN
ARCHITECTURAL



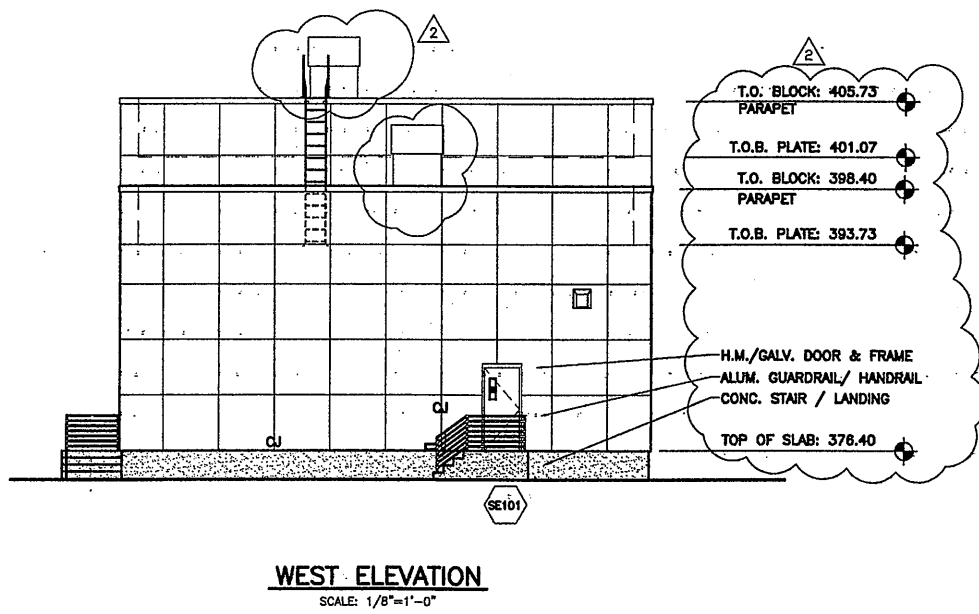
File Number: 00659
Date: APRIL 2001
A-101



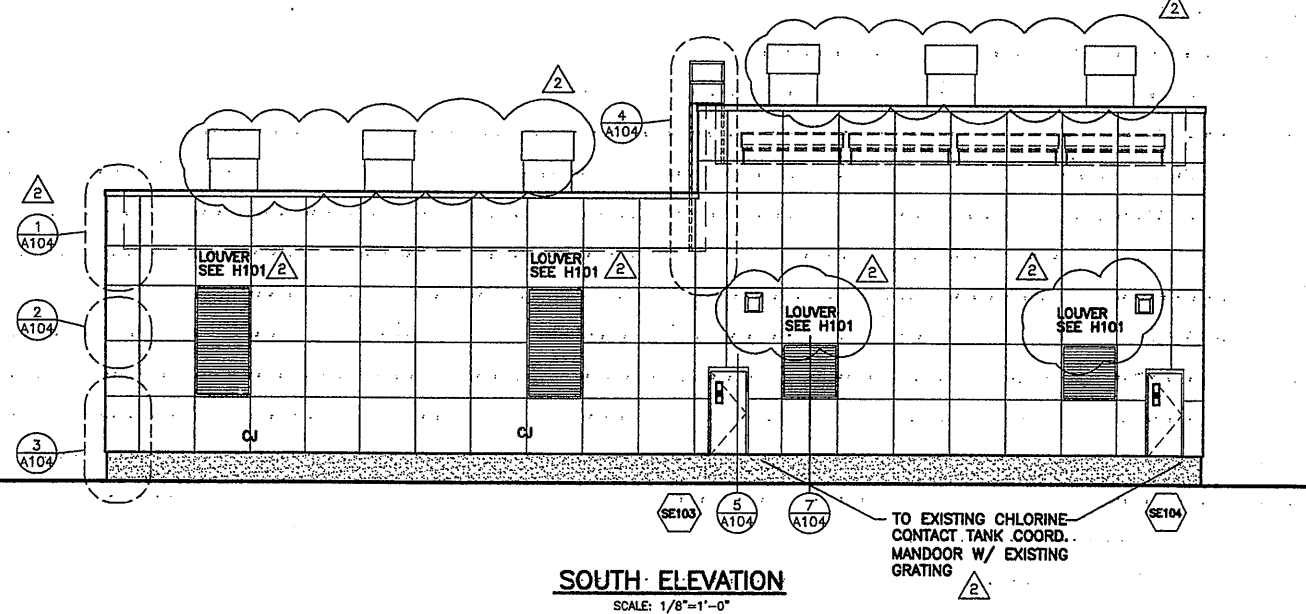
EAST ELEVATION
SCALE: 1/8"=1'-0"



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



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



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

RECORD DRAWING
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DATE: 12-1-05 PER: TWS

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02/20/01
00659A102

1/8"=1'-0"

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0	4/20/01	ISSUED FOR APPROVAL	TWS
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3	10/31/05	RECORD DRAWING	TWS

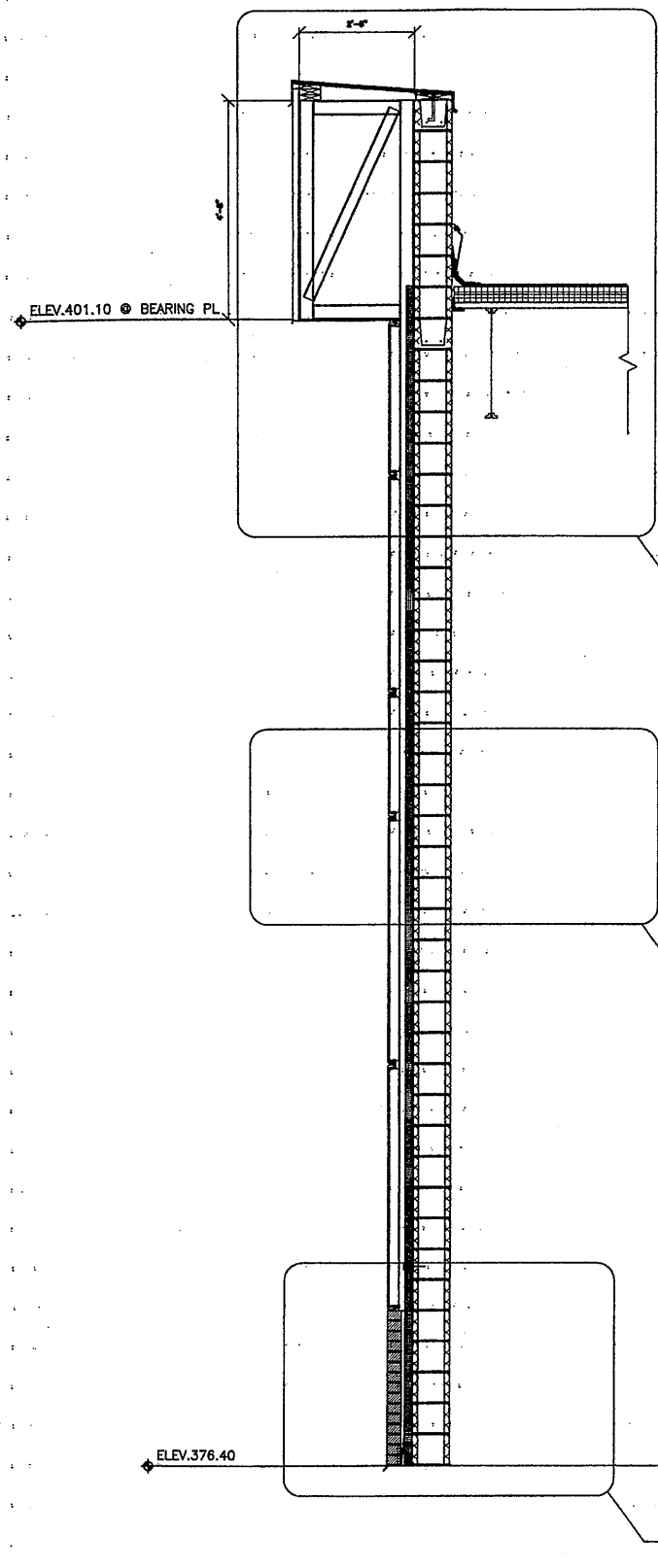
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Designed by BDM
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Checked by TWS

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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

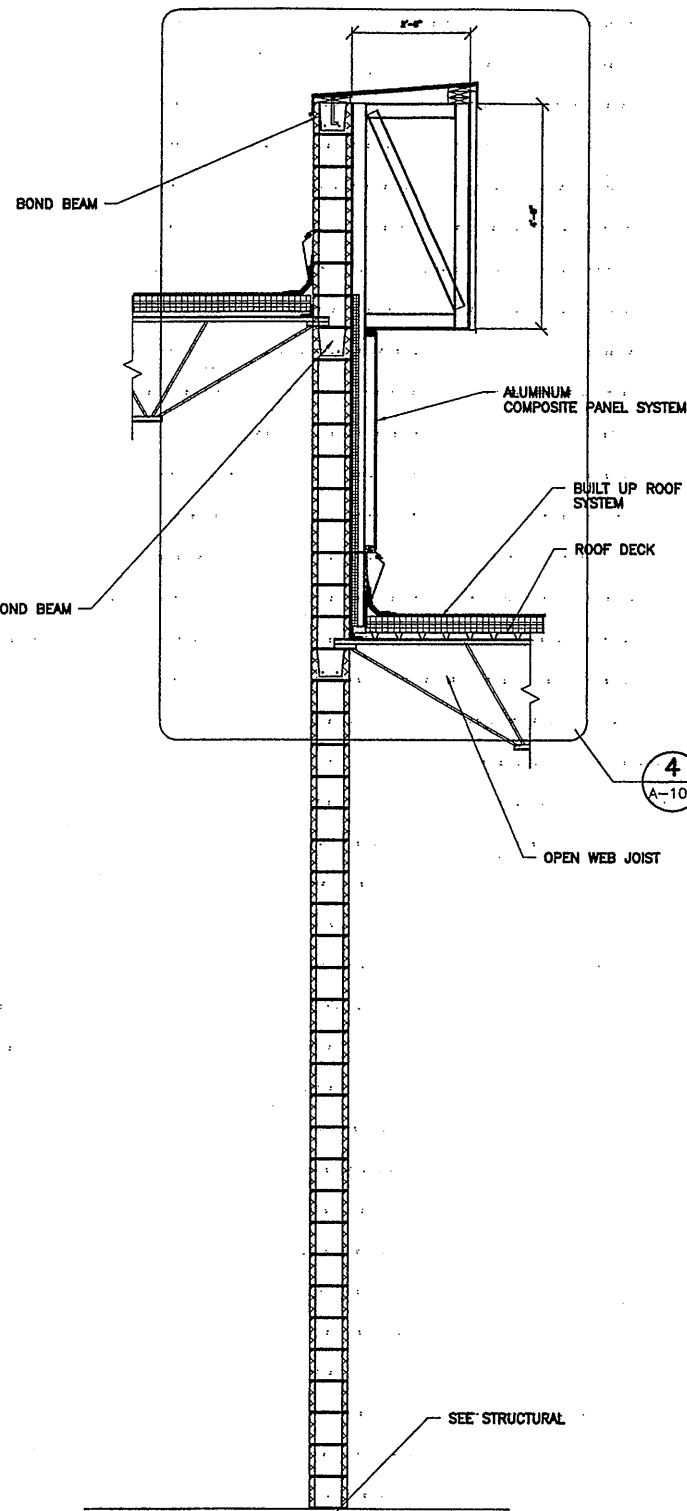
SECONDARY EFFLUENT PUMPING STATION ELEVATIONS
ARCHITECTURAL

File Number: 00659
Date: APRIL 2001
A-102



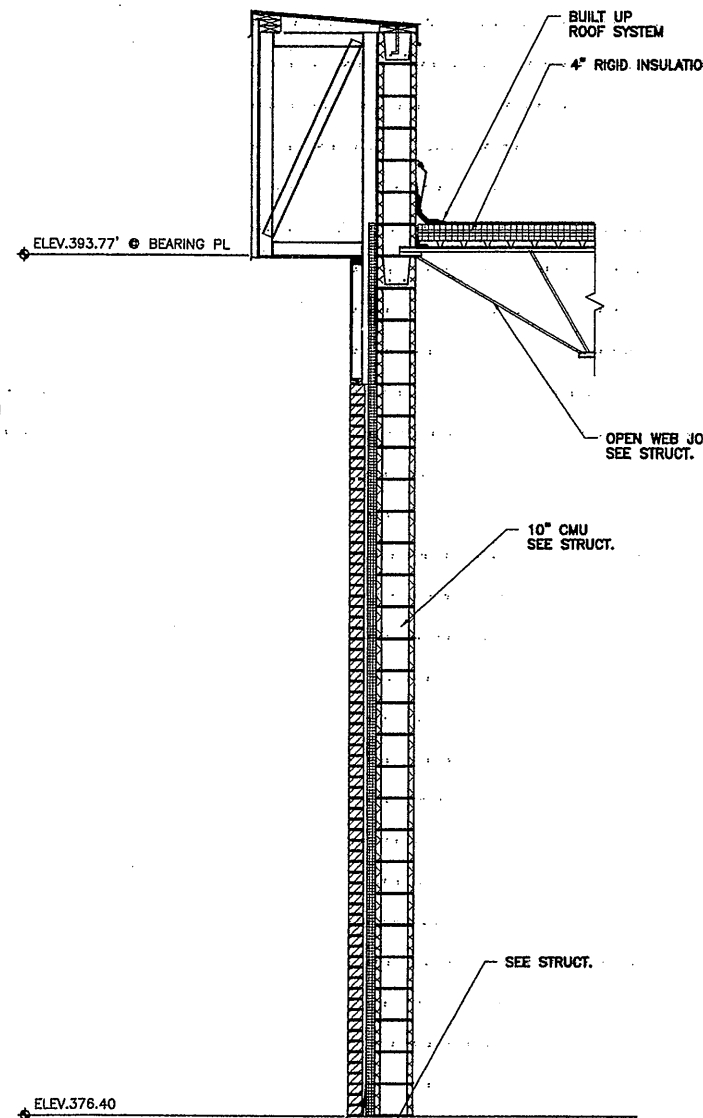
TYPICAL WALL SECTION THROUGH PUMP ROOM

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



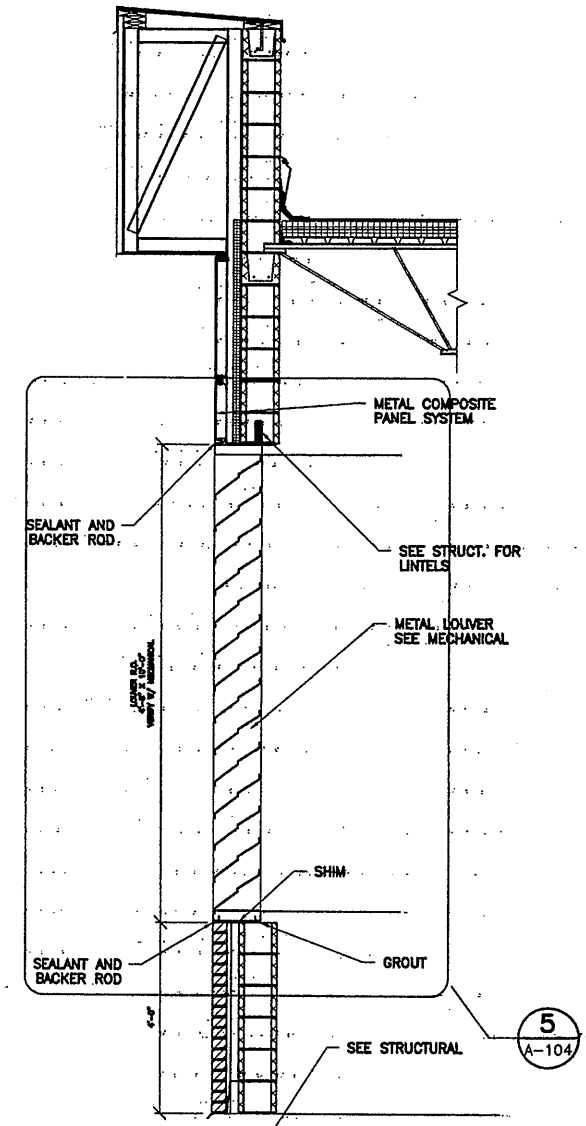
WALL SECTION THROUGH INTERIOR WALL

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



TYPICAL WALL SECTION THROUGH ELECTRIC ROOM

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



TYPICAL WALL SECTION THROUGH ELEC ROOM LOUVER

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

RECORD DRAWING

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07/17/00 OBG JAS
00659

No.	Date	Revisions	Init
			TWS
			TWS

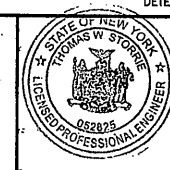
In charge of _____
 Designed by _____
 Drawn by _____
 Checked by _____



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

SECONDARY EFFLUENT PUMPING STATION STAIRS

WALL SECTIONS
ARCHITECTURAL



File Number

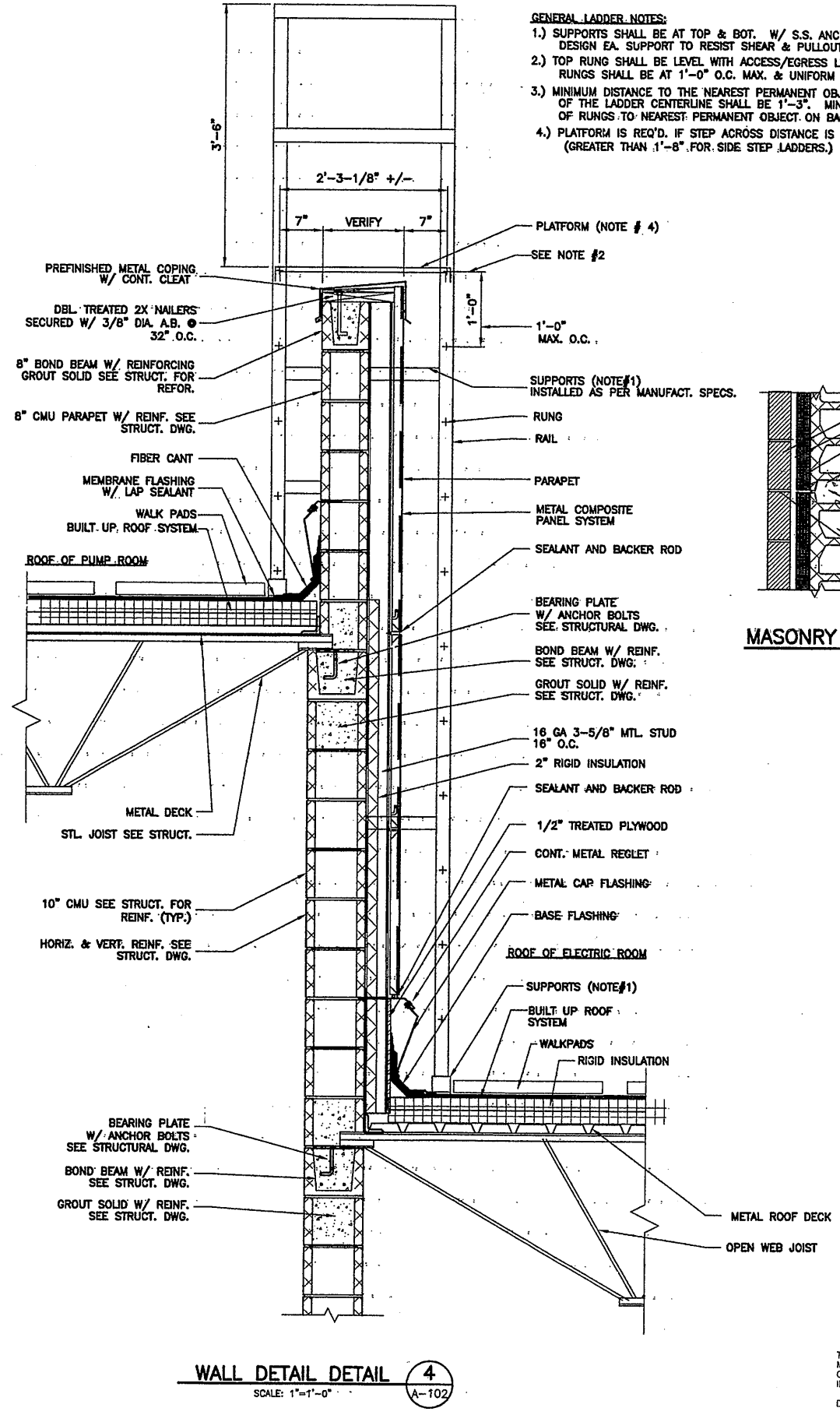
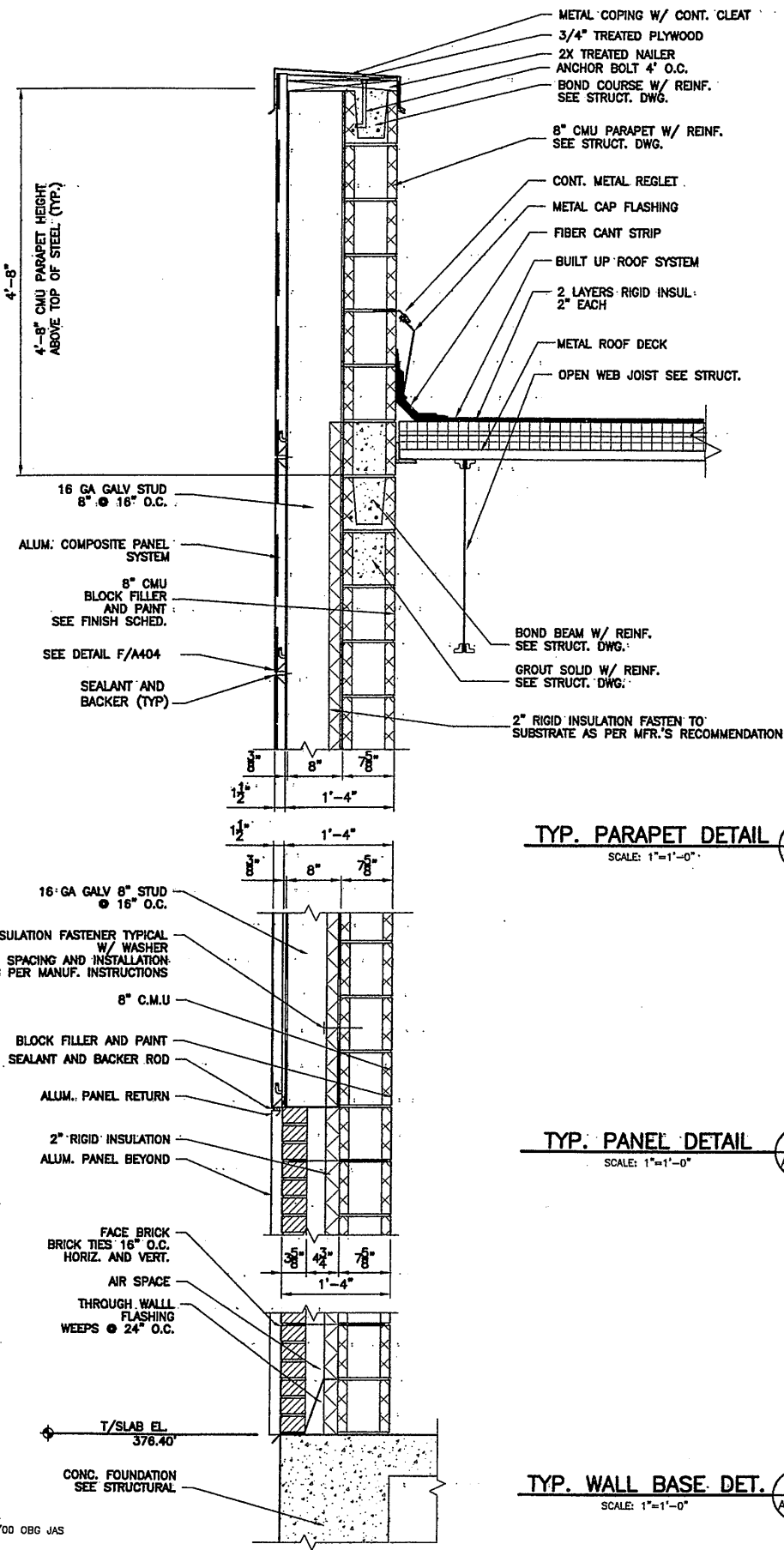
00659

Date

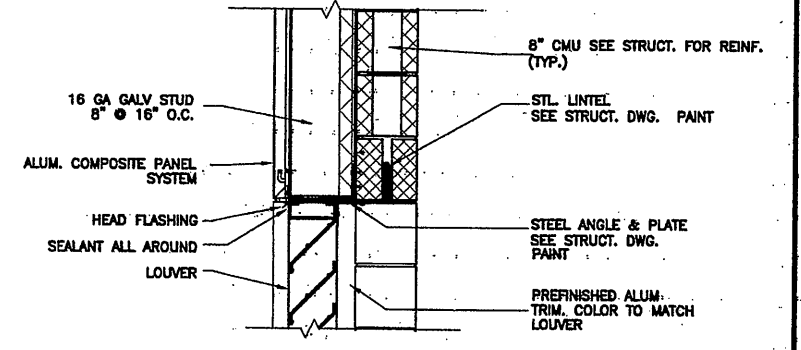
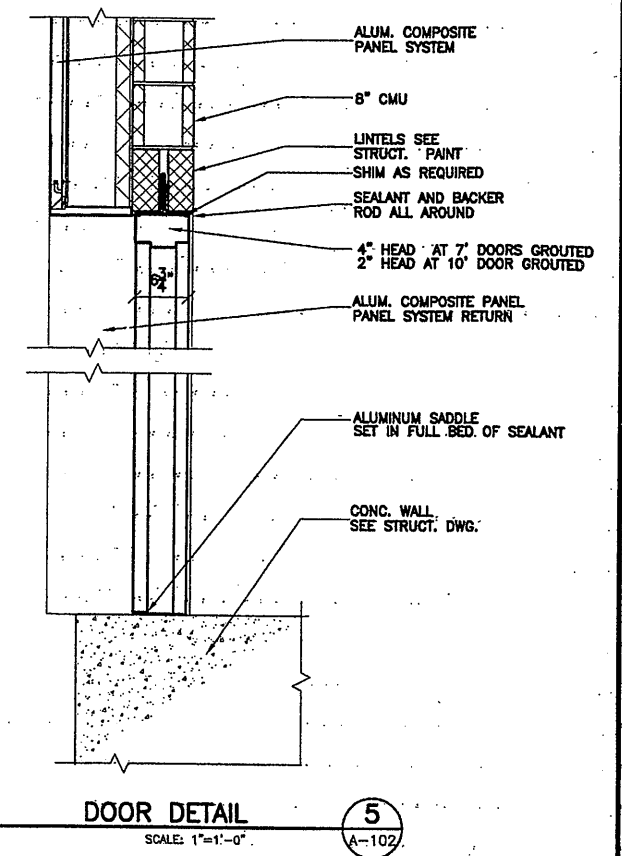
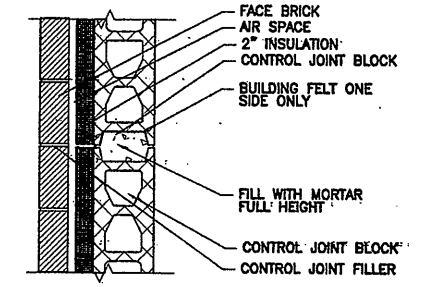
APRIL 2001

A-103

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GENERAL LADDER NOTES:
 1.) SUPPORTS SHALL BE AT TOP & BOT. W/ S.S. ANCHORS. DESIGN EA. SUPPORT TO RESIST SHEAR & PULLOUT OF A 500 LB. APPLIED LOAD.
 2.) TOP RUNG SHALL BE LEVEL WITH ACCESS/EGRESS LEVEL OR LANDING PLATFORM. RUNGS SHALL BE AT 1'-0" O.C. MAX. & UNIFORM THROUGHOUT.
 3.) MINIMUM DISTANCE TO THE NEAREST PERMANENT OBJECT ON EACH SIDE OF THE LADDER CENTERLINE SHALL BE 1'-3". MIN. DISTANCE FROM CENTERLINE OF RUNGS TO NEAREST PERMANENT OBJECT ON BACKSIDE OF LADDER SHALL BE 7".
 4.) PLATFORM IS REQ'D. IF STEP ACROSS DISTANCE IS GREATER THAN 1'-0" (GREATER THAN 1'-8" FOR SIDE STEP LADDERS.)



RECORD DRAWING
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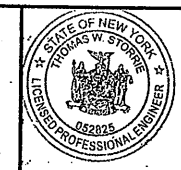
07/17/00 OBG JAS 00659
 NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL.	TWS
1	10/22/01	REVISED POST BID	TWS
2	10/31/05	RECORD DRAWING	TWS

In charge of _____
 Designed by _____
 Drawn by GC
 Checked by _____

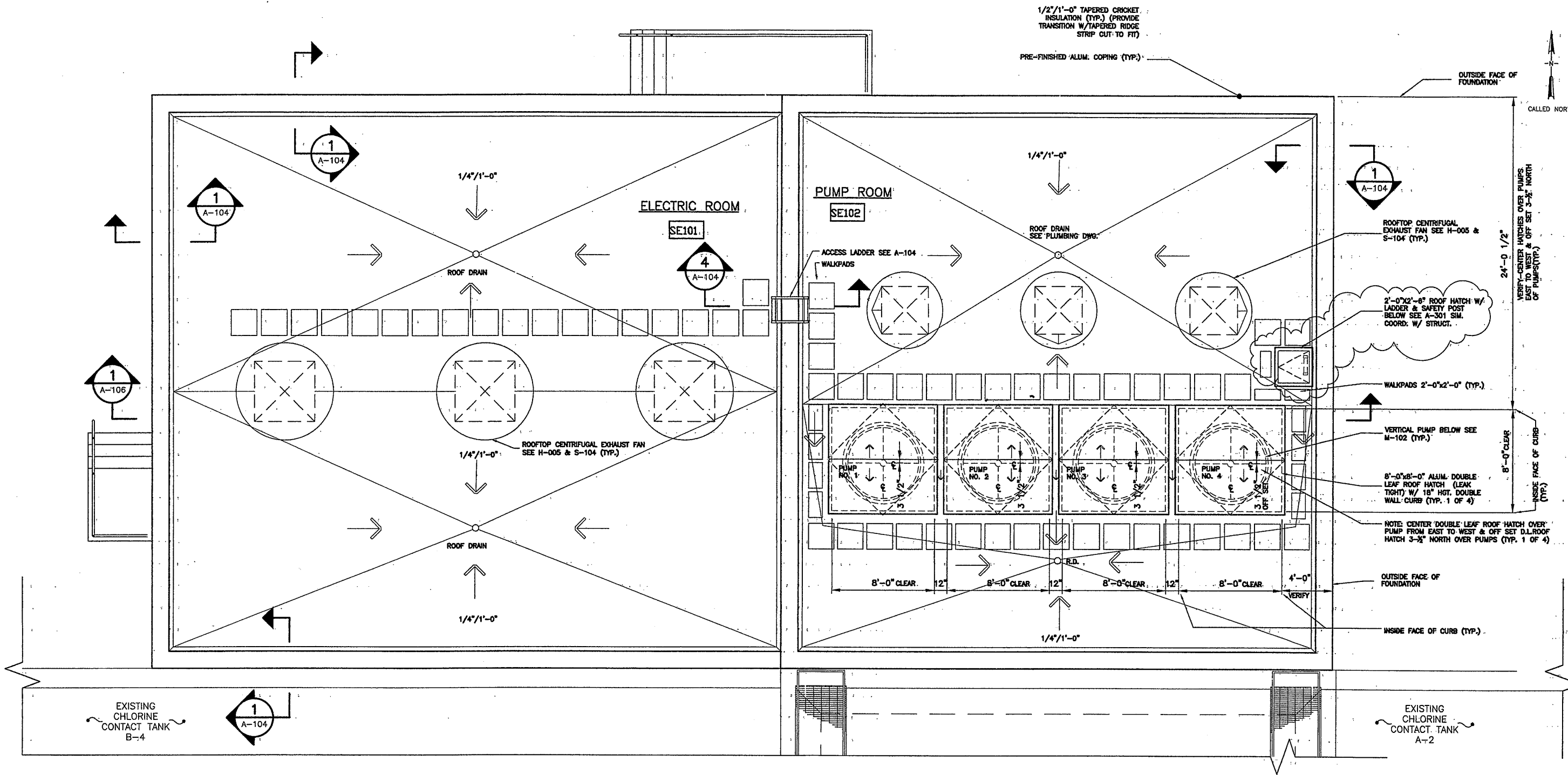


ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
 SECONDARY EFFLUENT PUMPING STATION



File Number 00659
 Date APRIL 2001
 A-104

EXT. WALL DETAILS
 ARCHITECTURAL



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

RECORD DRAWING
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09/29/01 OBG GC
00659

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No.	Date	Revisions	Init
0	3/22/02	ISSUED FOR MODIFICATION 4A-003	TWS
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2	10/31/05	RECORD DRAWING	TWS

In charge of TWS
 Designed by GC
 Drawn by GC
 Checked by TWS

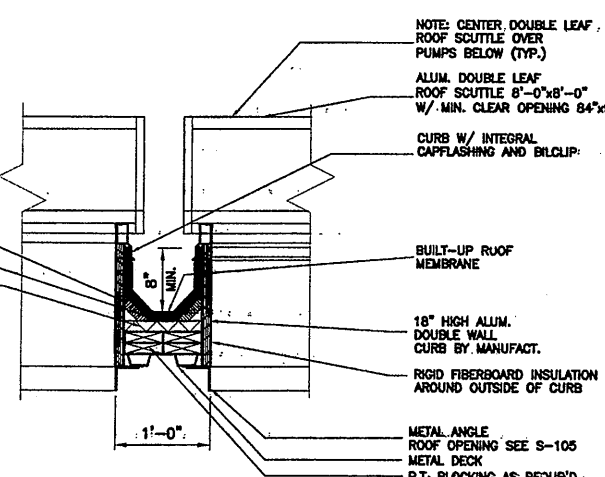
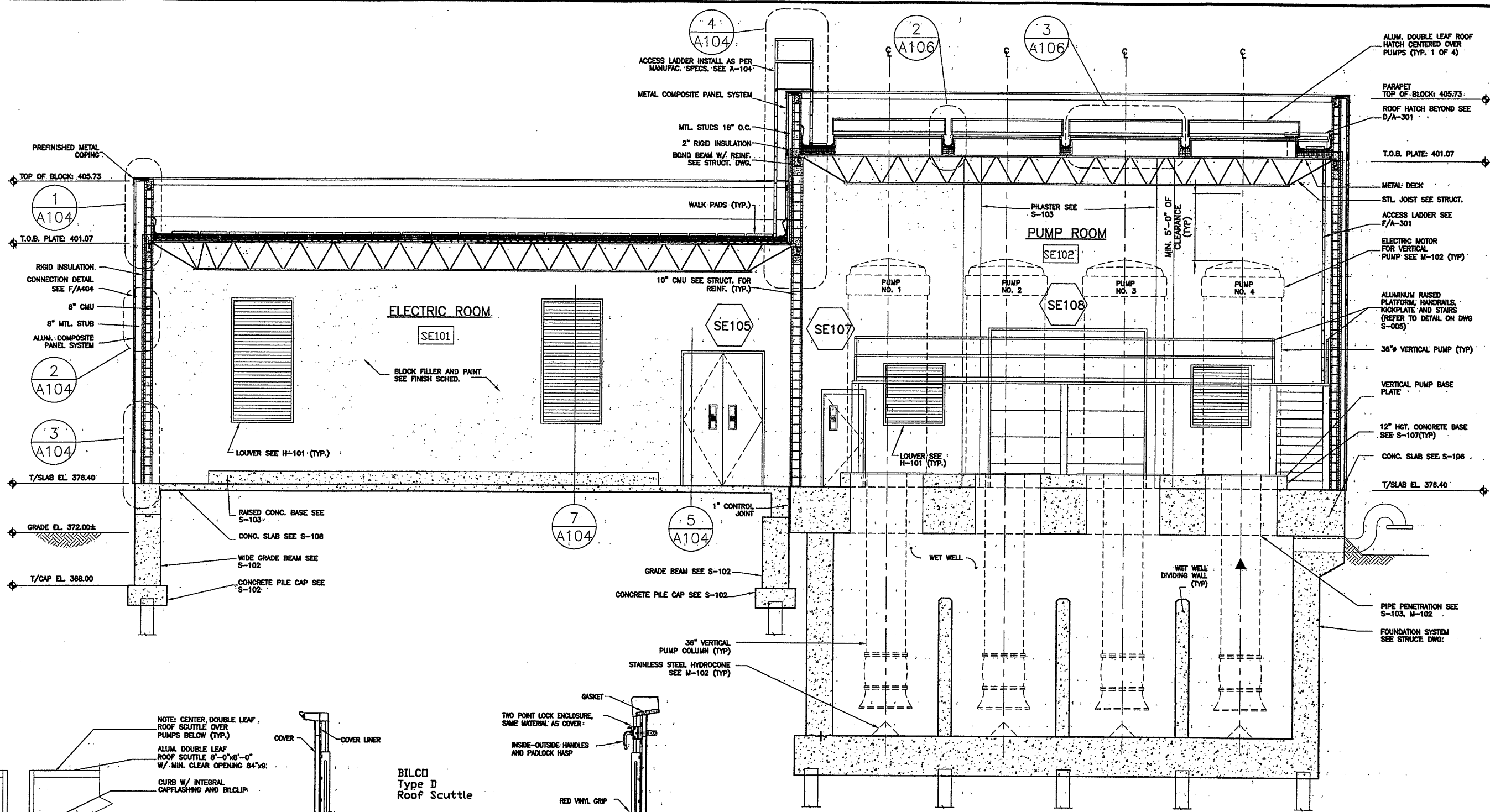
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

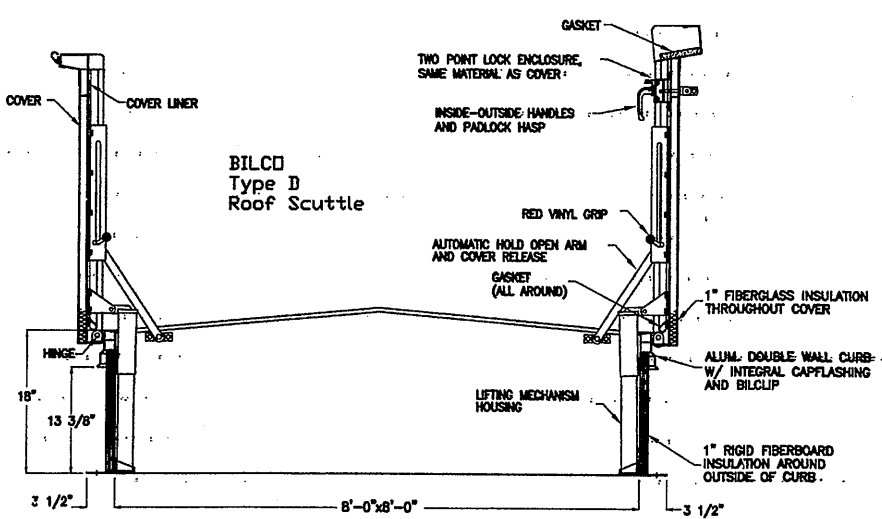
SECONDARY EFFLUENT PUMPING STATION
ROOF PLAN
 ARCHITECTURAL

File Number: 00659
 Date: MARCH 2002
 A-105

Professional Engineer Seal: STATE OF NEW YORK, THOMAS W. STORIE, LICENSE NO. 05882



ROOF SCUTTLE DETAIL 2
SCALE: 1"=1'-0"
A-106

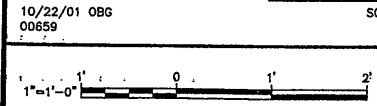


ALUM. ROOF SCUTTLE 3
SCALE: 1"=1'-0"
A-106

BUILDING SECTION 1
SCALE: 1/4"=1'-0"
A-106

RECORD DRAWING
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2	10/31/05	RECORD DRAWING	TWS

In charge of TWS
 Designed by GC
 Drawn by GC
 Checked by TWS



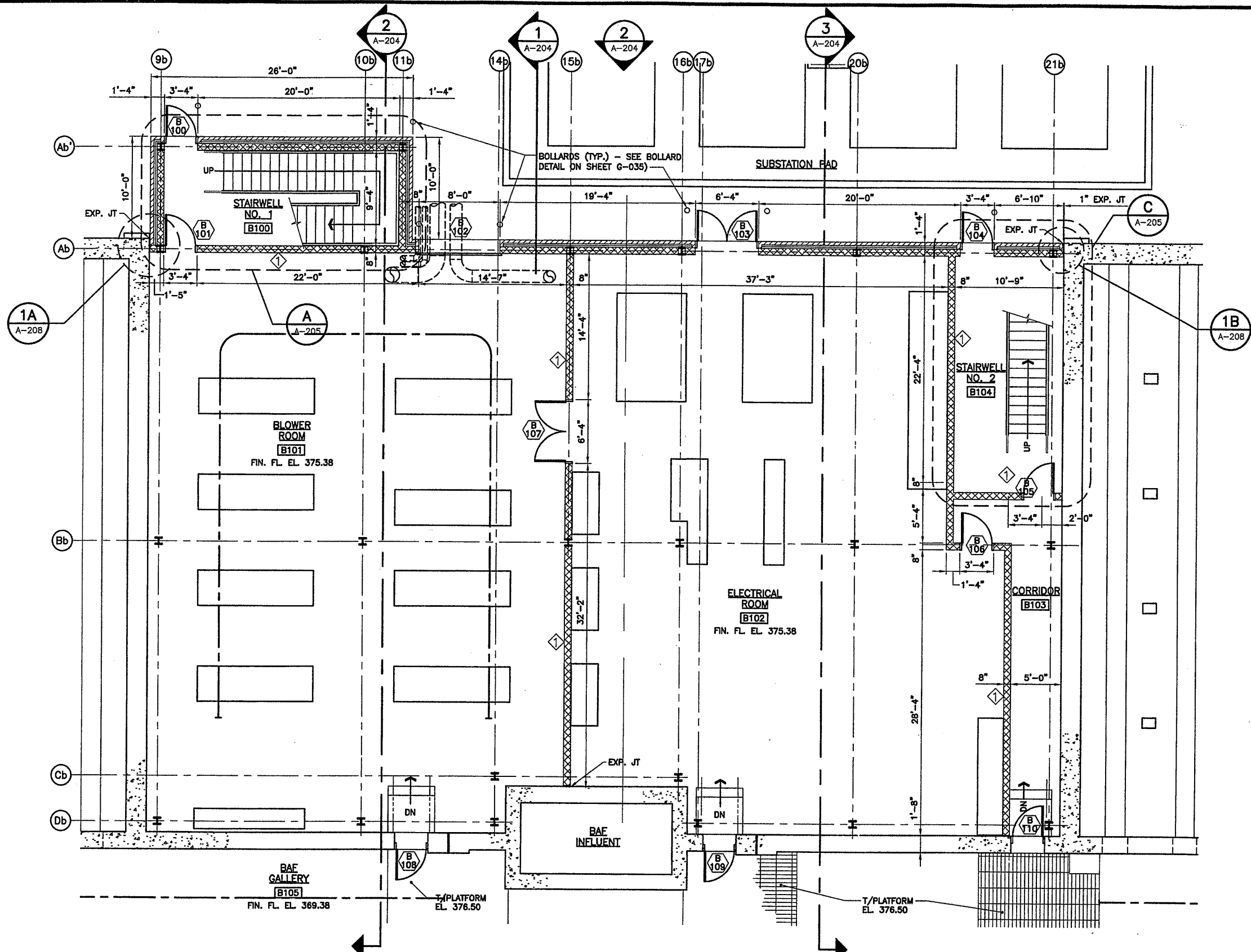
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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
 SECONDARY EFFLUENT PUMPING STATION



File Number 00659
 Date APRIL 2001
 A-106

BUILDING SECTION/DETAILS
ARCHITECTURAL

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PARTIAL FIRST FLOOR PLAN
SCALE: 3/16"=1'-0"

PARTITION SCHEDULE:

- ◊ - 8" CMU, 2 HR RATED CONSTRUCTION, CONSTRUCT TO UNDERSIDE OF FLOOR OR ROOF DECK. FILL ALL VOIDS AROUND ELEMENTS OF CONSTRUCTION W/ FIRE SAFING INSULATION. FOR MECHANICAL OR ELECTRICAL PENETRATION REQUIREMENTS, SEE MECH./ELEC. DRAWINGS.

RECORD DRAWING

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0659x201
08/08/01 OBG RAE
0659x201

No.	Date	Revisions	Init
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1		AS BID	TWS
2	10/31/05	RECORD DRAWING	TWS

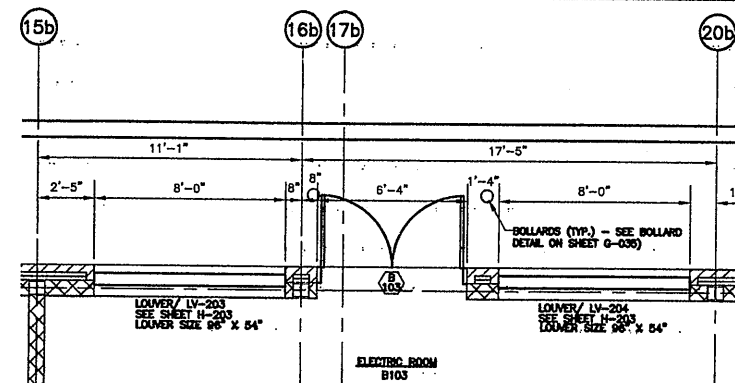
In charge of TWS
Designed by CMT
Drawn by RAE
Checked by NJD

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

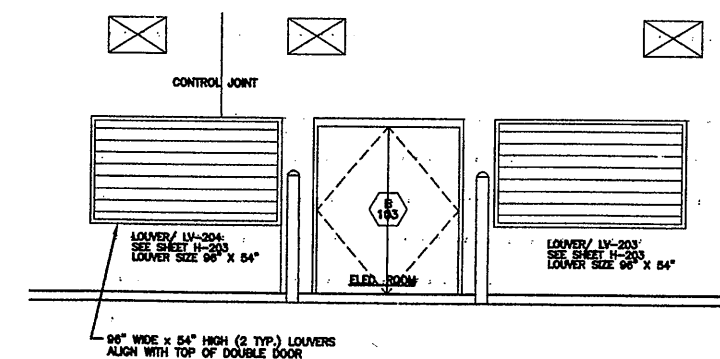
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
BAF PROCESS/UTILITY BUILDING
PARTIAL FIRST FLOOR PLAN
ARCHITECTURAL



File Number 00659
Date APRIL 2001
A-201



PARTIAL 1st FLR PLAN-REFER TO A-201 AND H-203 OF DOCUMENTS
SCALE: 1/4"=1'-0"



PARTIAL ELEVATION- REFER TO SHEET A-204 OF DOCUMENTS
SCALE: 1/4"=1'-0"

RECORD DRAWING
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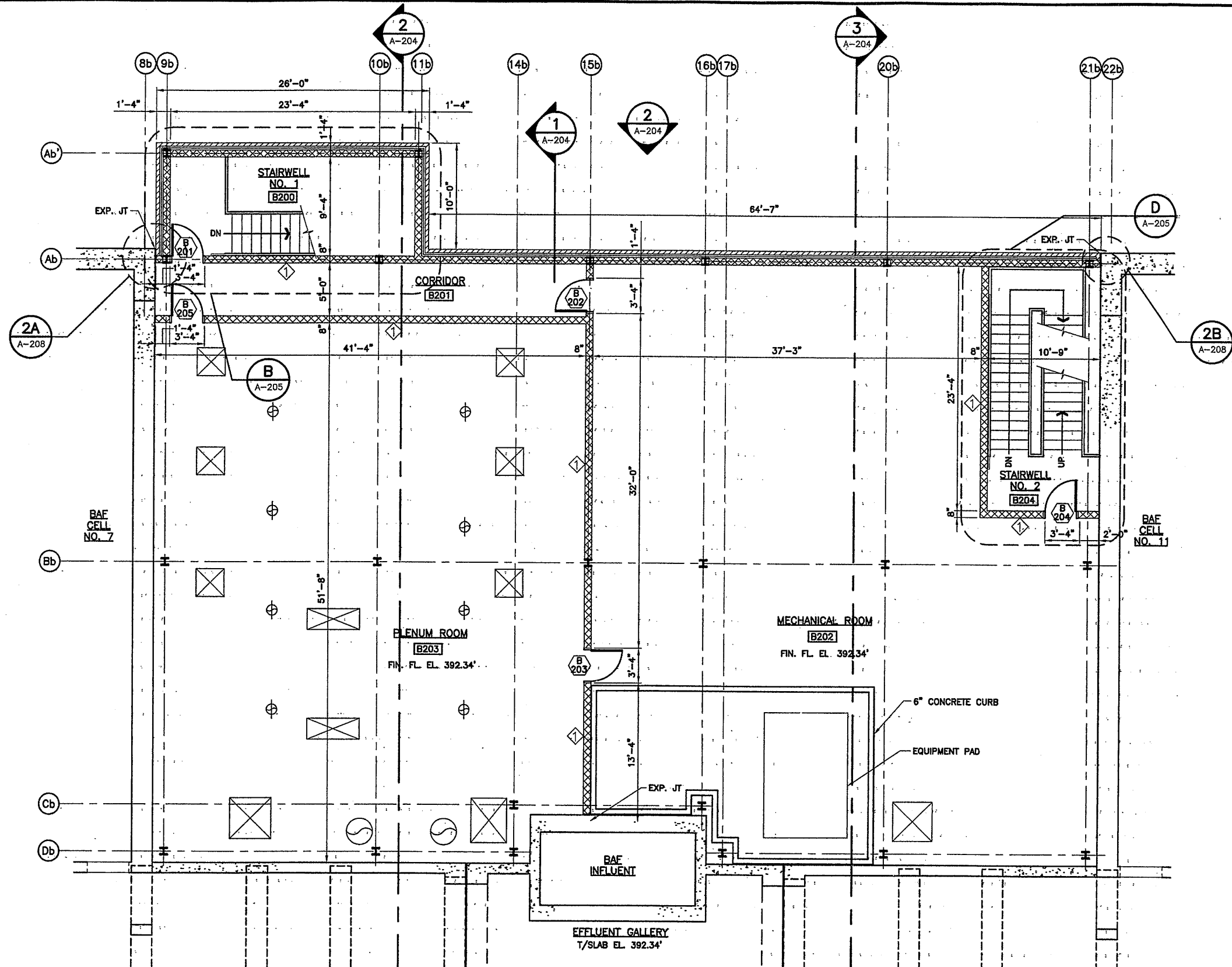
ONONDAGA COUNTY DEPARTMENT OF
DRAINAGE AND SANITATION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIELD ORDER
4A-00026

FIGURE
1

REF. SHEET A-201



PARTIAL SECOND FLOOR PLAN

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

- PLAN NOTES:**
1. PAINT CURB ALTERNATING YELLOW AND BLACK. EQUAL WIDTH ANGLED BANDS.

PARTITION SCHEDULE:

- 1 - 8" CMU, 1 HR RATED CONSTRUCTION, CONSTRUCT TO UNDERSIDE OF FLOOR OR ROOF DECK. FILL ALL VOIDS AROUND ELEMENTS OF CONSTRUCTION W/ FIRE SAFING INSULATION. FOR MECHANICAL OR ELECTRICAL PENETRATION REQUIREMENTS, SEE MECH./ELEC. DRAWINGS.

RECORD DRAWING

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0659a202
06/08/01 OBG RAE
0659a202



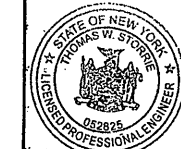
No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	TWS
1		AS BID	TWS
2	10/31/05	RECORD DRAWING	TWS

In charge of TWS
Designed by CMT
Drawn by RAE
Checked by NJD

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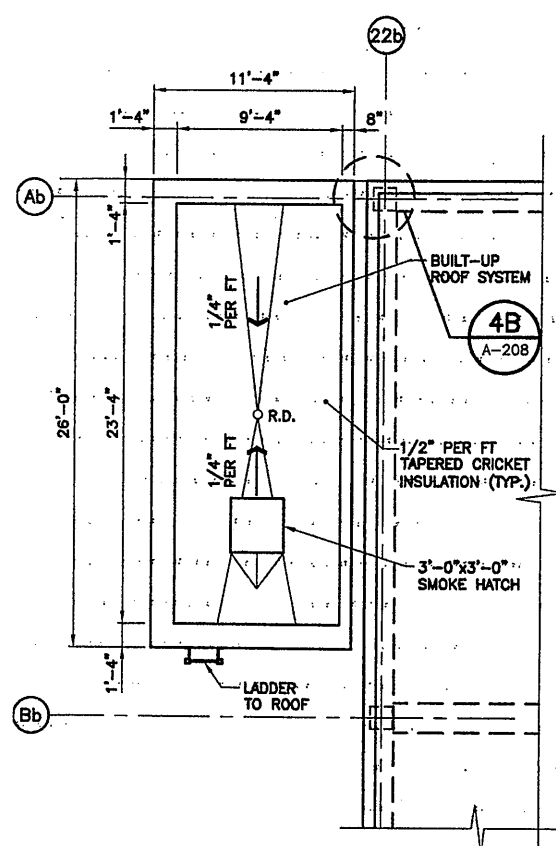
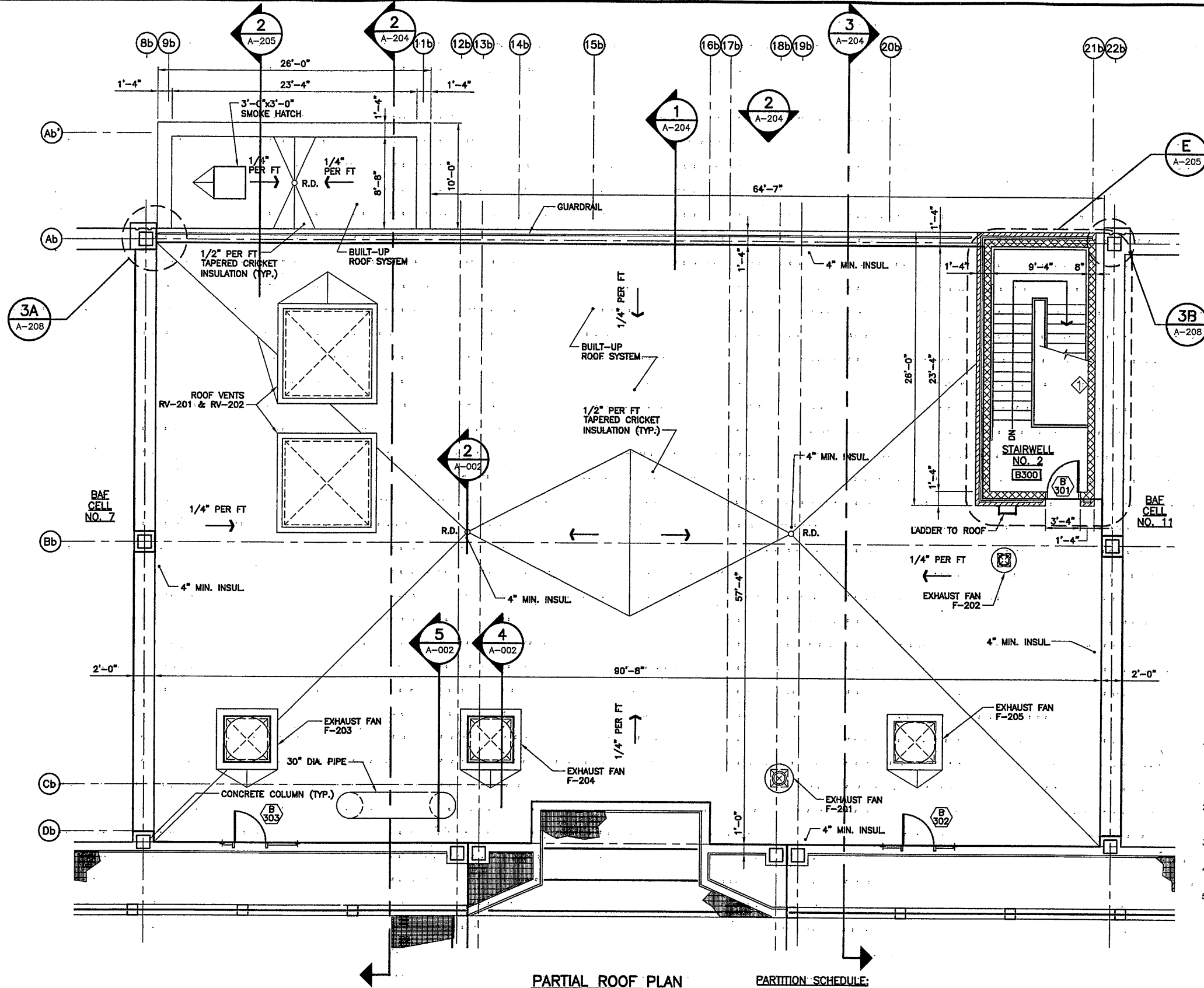
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
BAF PROCESS/UTILITY BUILDING

PARTIAL SECOND FLOOR PLAN
ARCHITECTURAL



File Number: 00659
Date: APRIL 2001
A-202

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PARTIAL ROOF PLAN
SCALE: 3/16"=1'-0"

STAIRWELL NO. 2 - ROOF PLAN
SCALE: 3/16"=1'-0"

RECORD DRAWING NOTES

1. THE DETAILS AT THE NORTH AND SOUTH ROOF LINE WILL BE SIMILAR TO THE DETAILS SHOWN FOR THE WEST SIDE. THE DETAILS AT THE ROOFLINE SHALL BE COORDINATED WITH THE ROOFING SUBMITTAL. AT THE SECOND FLOOR, THE SLAB TO WALL DETAIL WILL BE SIMILAR TO SECTION 2 ON SHEET S-230. THE STEEL BEAM WILL SUPPORT THE METAL DECK AND THE POUR STOP. THE GAP BETWEEN THE WALL AND THE POUR STOP SHALL BE FILLED WITH FIRESTOP MATERIAL.
2. THE FLASHING MATERIAL SHALL TRANSITION AND EXTEND DOWN EACH SIDE IN ORDER TO SEAL VERTICAL GAP. THE DETAILS SHALL BE COORDINATED WITH ROOFING SUBMITTAL.
3. THE SECOND FLOOR DECK/SLAB IS PLACED OVER THE STEEL BEAM AND THE CMU LIES OVER THE SLAB.
4. THE SECOND FLOOR DECK/SLAB IS PLACED OVER THE STEEL BEAM AND THE CMU LIES OVER THE SLAB.
5. THE SECOND FLOOR DECK/SLAB IS PLACED OVER THE STEEL BEAM AND THE CMU LIES OVER THE SLAB. THE SHEAR STUDS ARE NOT REQUIRED. FOR MORE INFORMATION REFER TO RFI NO. 00374.1

PLAN NOTES:
1. PROVIDE FALL PROTECTION SYSTEM ON ALL ROOFS.

PARTITION SCHEDULE:
◊ - 8" CMU, 1 HR RATED CONSTRUCTION, CONSTRUCT TO UNDERSIDE OF FLOOR OR ROOF DECK. FILL ALL VOIDS AROUND ELEMENTS OF CONSTRUCTION W/ FIRE SAFING INSULATION. FOR MECHANICAL OR ELECTRICAL PENETRATION REQUIREMENTS, SEE MECH./ELEC. DRAWINGS.

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0659x203
06/08/01 OBG RAE
0659x203

3/16"=1'-0"	
0	4
0	8
0	12

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1		AS BID	TWS
2	0/31/05	RECORD DRAWING	TWS

In charge of	TWS
Designed by	CMT
Drawn by	RAE
Checked by	NJD

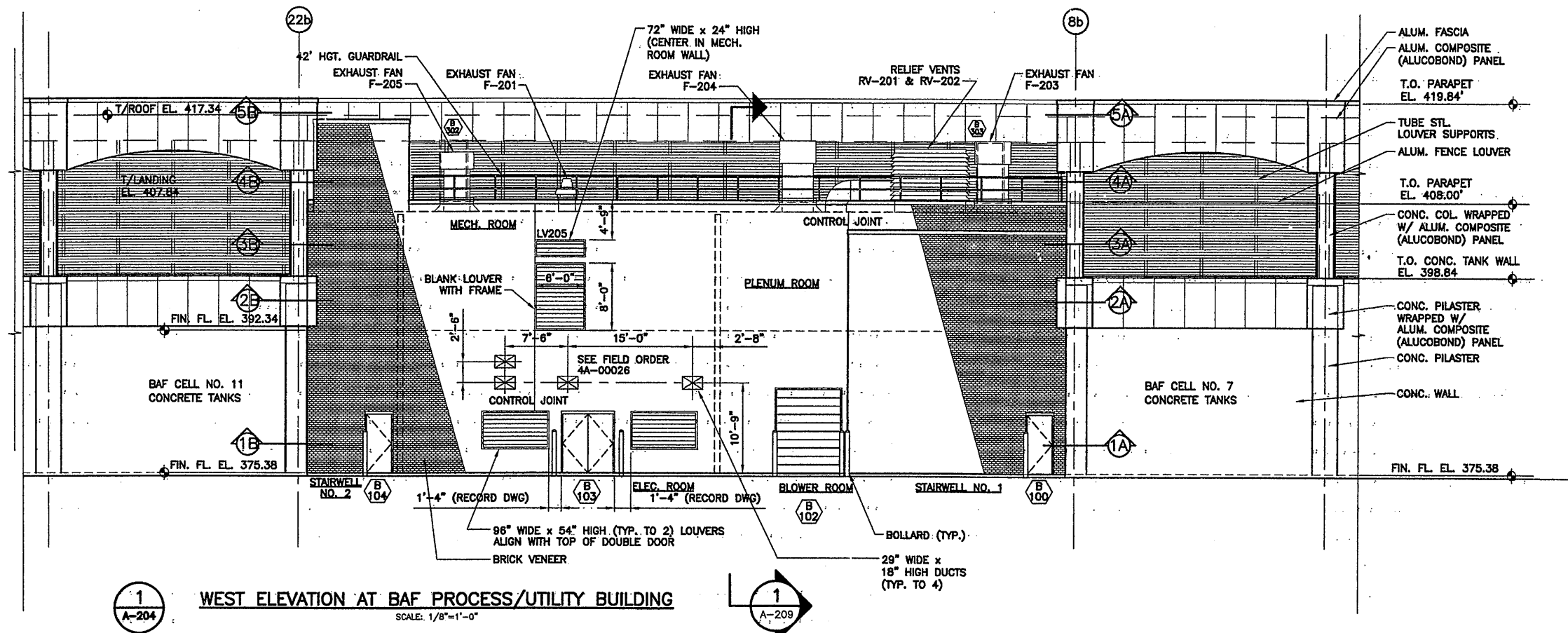
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
BAF PROCESS/UTILITY BUILDING

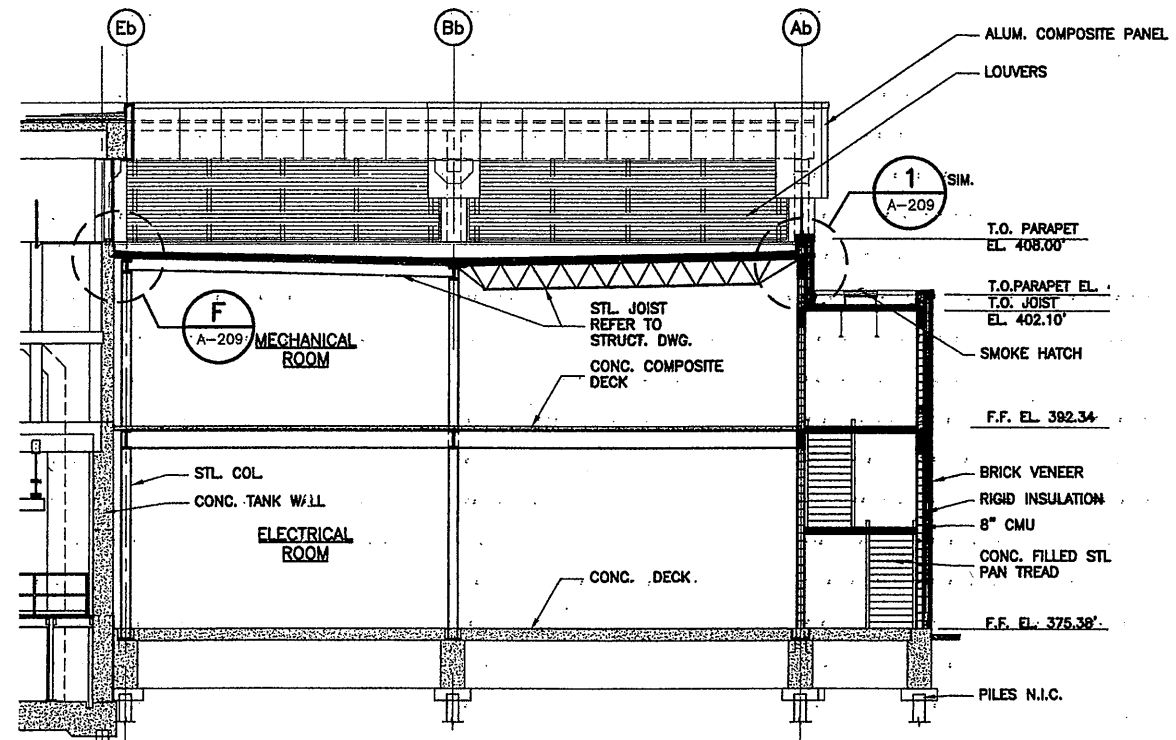
PARTIAL ROOF PLANS
ARCHITECTURAL



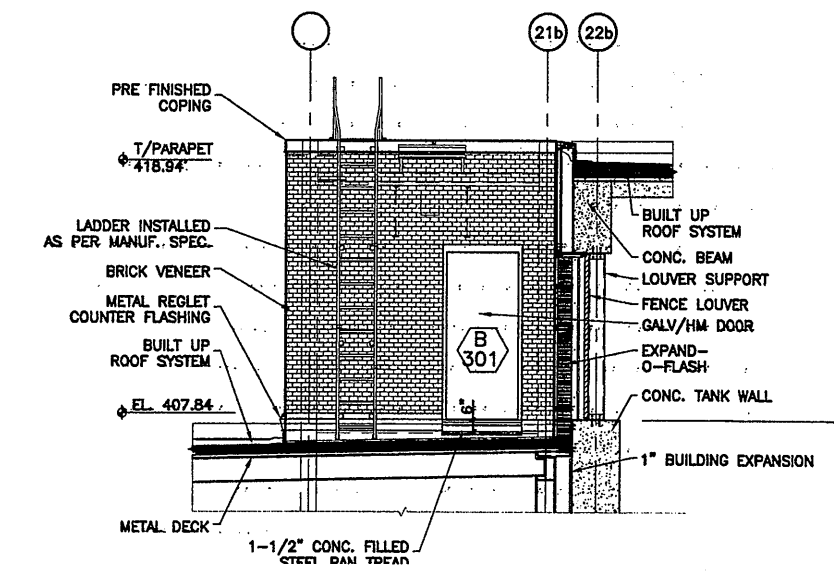
File Number	00659
Date	APRIL 2001
Project No.	A-203



1 WEST ELEVATION AT BAF PROCESS/UTILITY BUILDING
 SCALE: 1/8"=1'-0"
 A-204



2 WEST ELEVATION AT BAF PROCESS/UTILITY BUILDING
 SCALE: 1/8"=1'-0"
 A-204



SECTION 4
 SCALE: 3/4" = 1'-0"
 A-204

RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 12-1-05 PER: TWS

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2/26/01 OBG RAE
0659a204

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

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	TWS
1		AS BID	TWS
2	10/31/05	RECORD DRAWING	TWS

In charge of	TWS
Designed by	CMT
Drawn by	RAE
Checked by	NJD

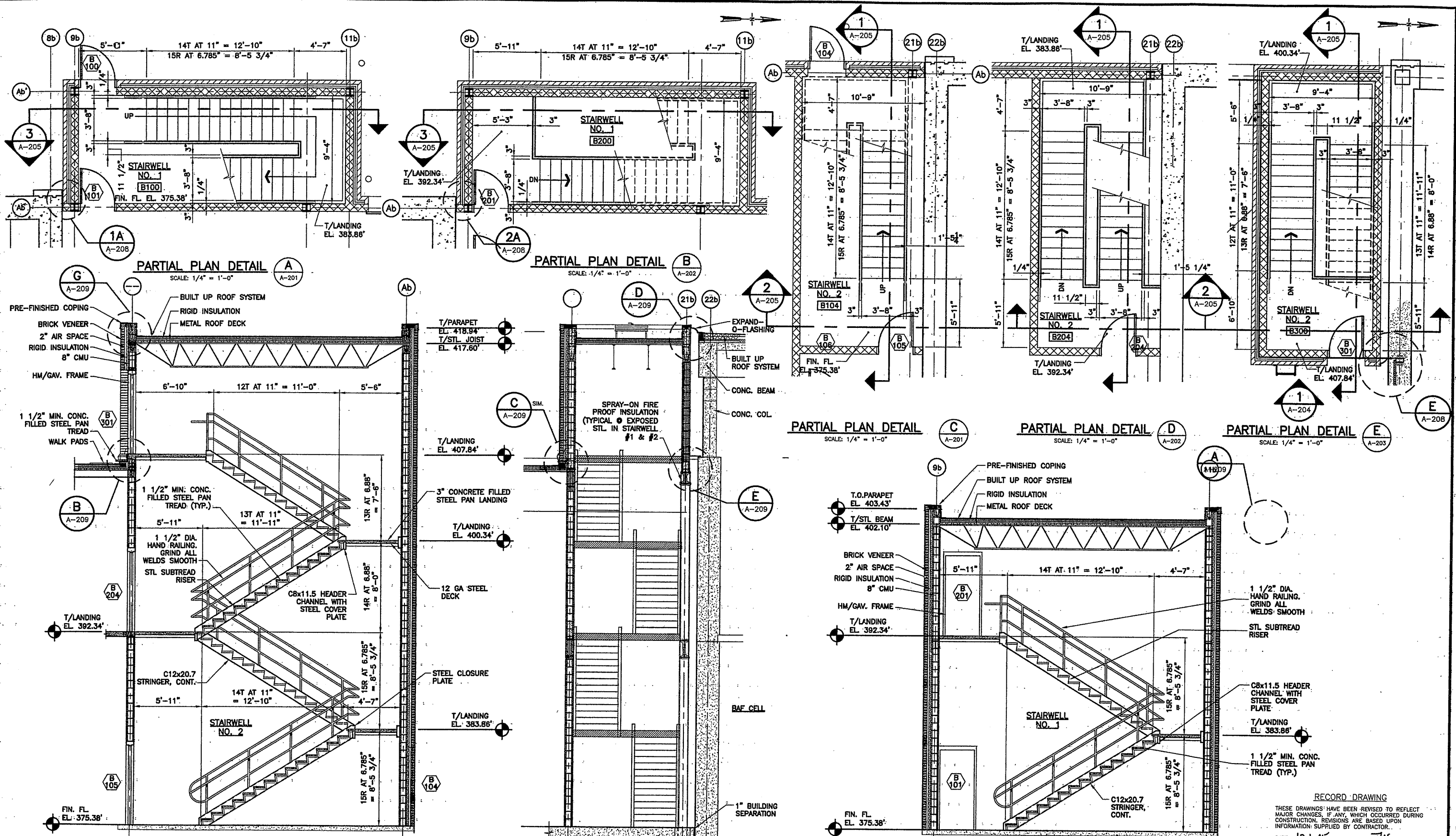


ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
 BAF PROCESS/UTILITY BUILDING

ELEVATION & WALL SECTIONS
 ARCHITECTURAL



File Number	00659
Date	APRIL 2001
Project Name	A-204



RECORD DRAWING
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2/26/01 OBG RAE
 0659a205

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No.	Date	Revisions	Init
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1		AS BID	TWS
2	0/31/05	RECORD DRAWING	TWS

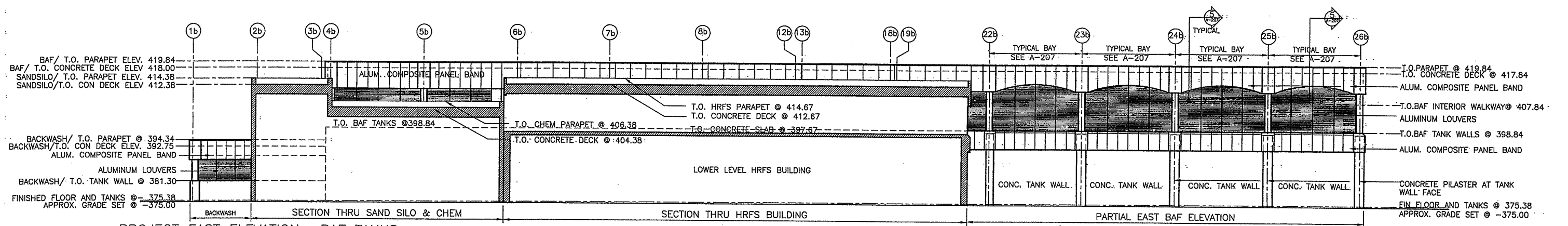
In charge of TWS
 Designed by CMT
 Drawn by RAE
 Checked by TWS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

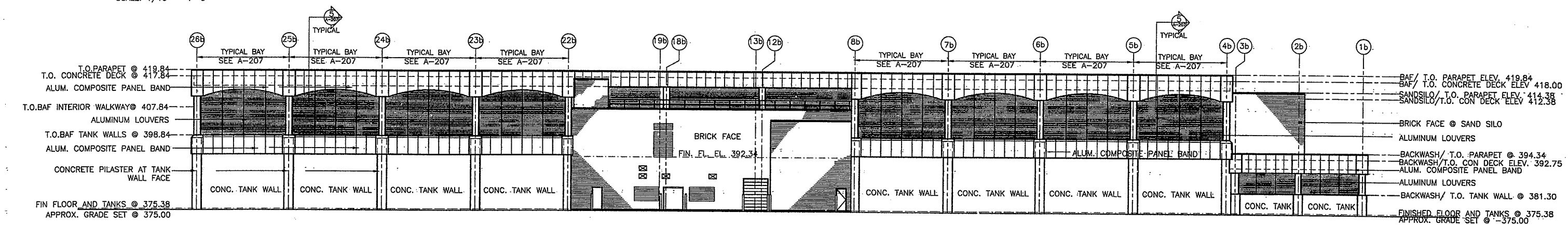
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
 BAF PROCESS/UTILITY BUILDING

File Number 00659
 Date APRIL 2001
 A-205

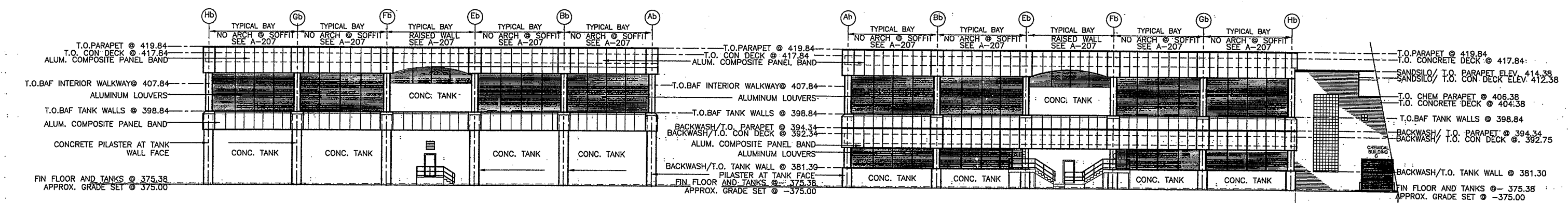
STAIR PLANS & SECTIONS
 ARCHITECTURAL



PROJECT EAST ELEVATION - BAF TANKS
SCALE: 1/16" = 1'-0"



PROJECT WEST ELEVATION - BAF TANKS
SCALE: 1/16" = 1'-0"



PROJECT NORTH ELEVATION - BAF TANKS
SCALE: 1/16" = 1'-0"

PROJECT SOUTH ELEVATION - BAF TANKS AND BACKWASH TANKS
SCALE: 1/16" = 1'-0"

Layer: ON=*, OFF=*REF*
07/17/00 OBG JAS
EEA-VER7

RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	10/31/05	RECORD DRAWING	TWS

In charge of: SAW
Designed by: SAW
Drawn by: SAW
Checked by: SAW

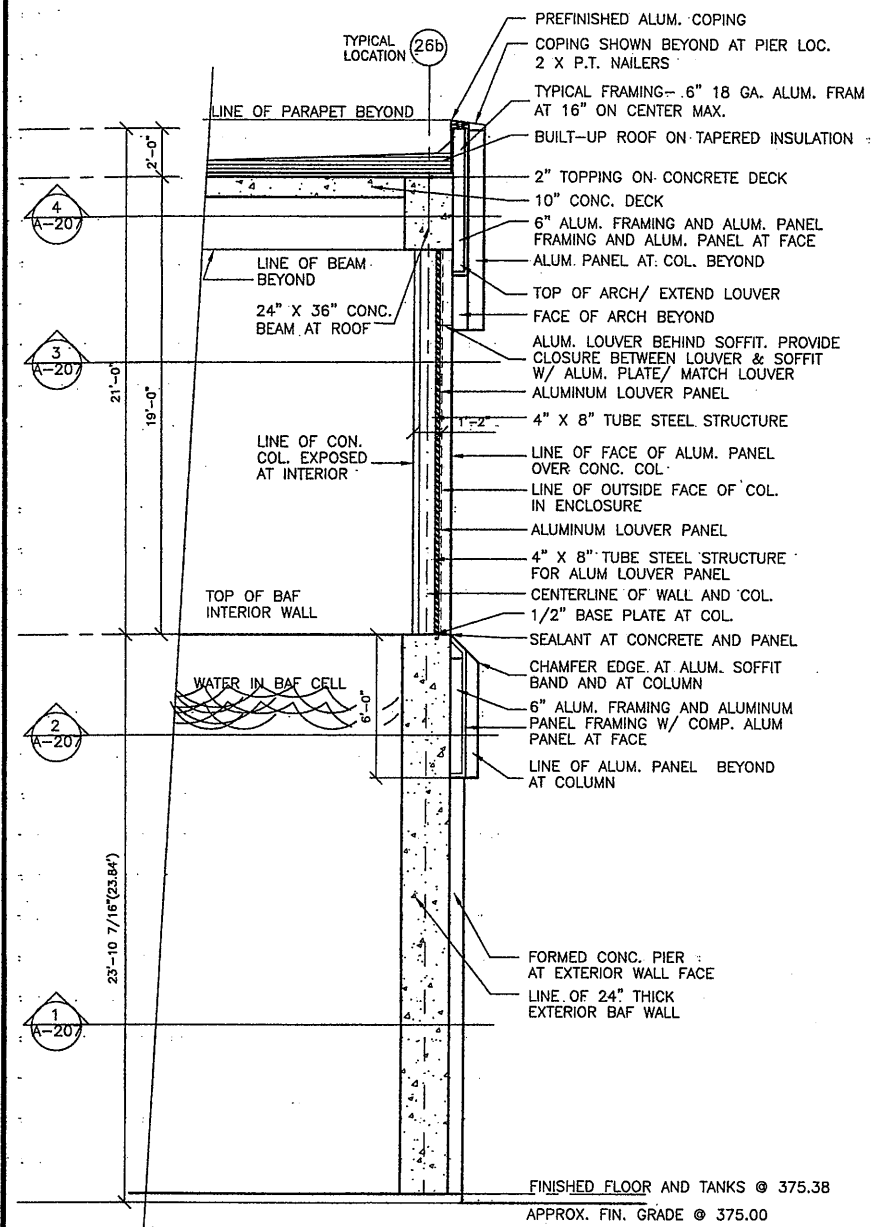
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

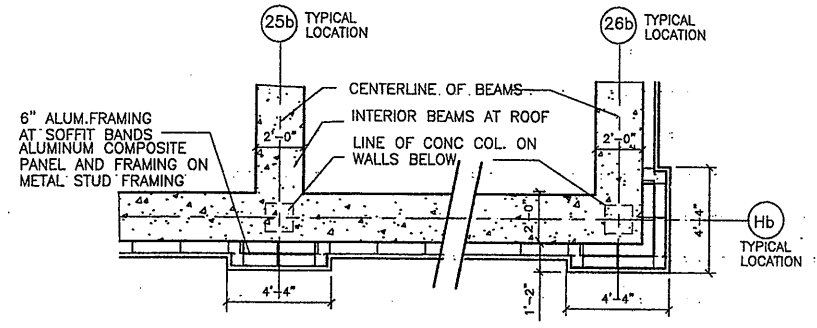
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PROCESS/ UTILITY BUILDING
NORTH/SOUTH/EAST/WEST ELEVATIONS
ARCHITECTURAL

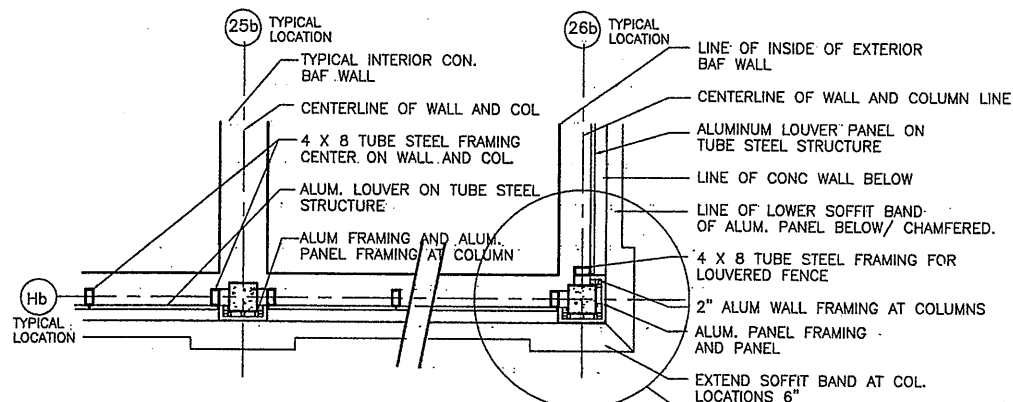
File Number	00659
Date	APRIL 2001
	A-206



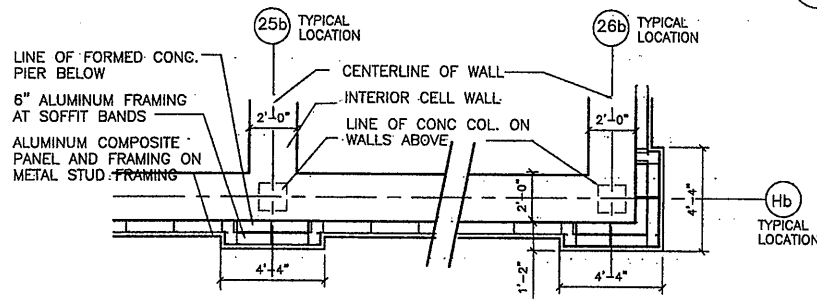
5 TYPICAL WALL SECTION
SCALE: 1/4" = 1'-0"



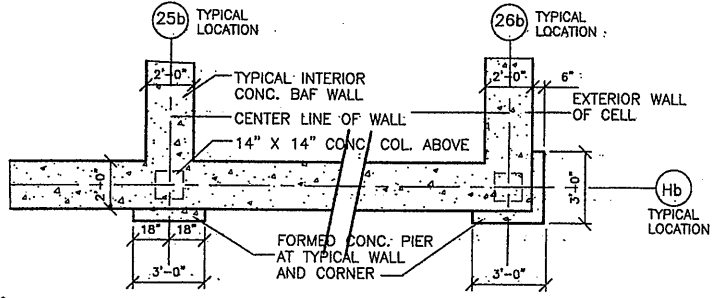
4 PLAN DETAIL/ SECTION @ ROOF
SCALE: 1/4" = 1'-0"



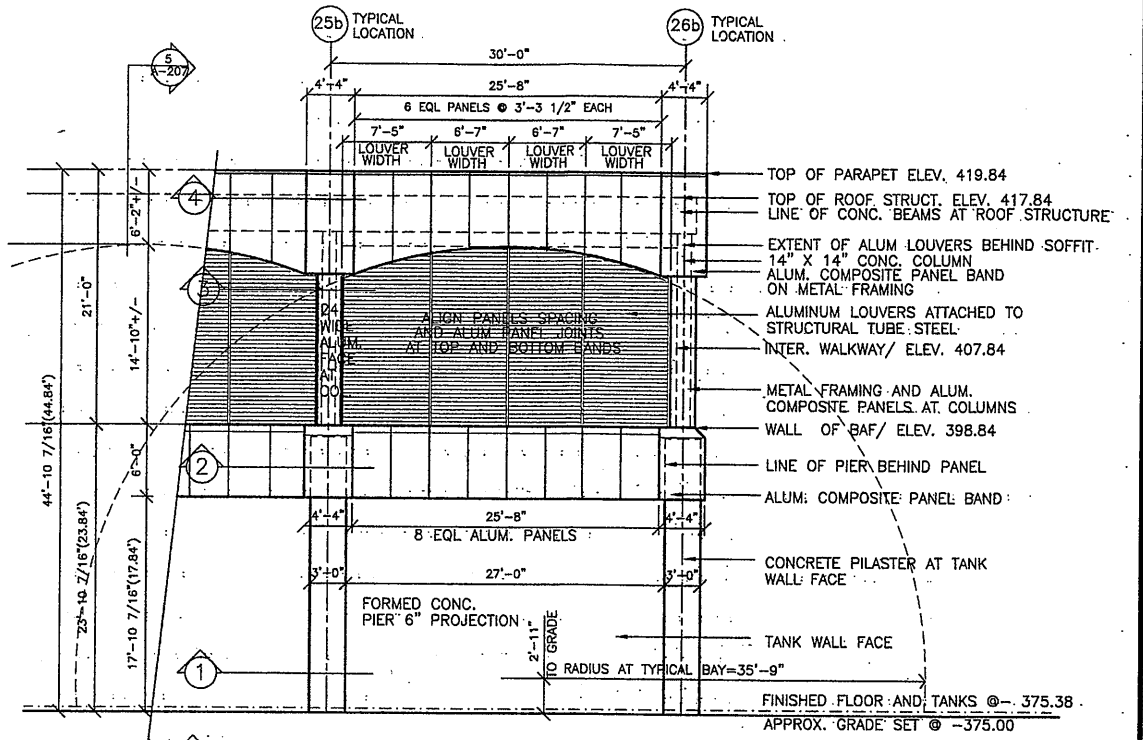
3 PLAN DETAIL/ SECTION @ COLUMNS
SCALE: 1/4" = 1'-0"



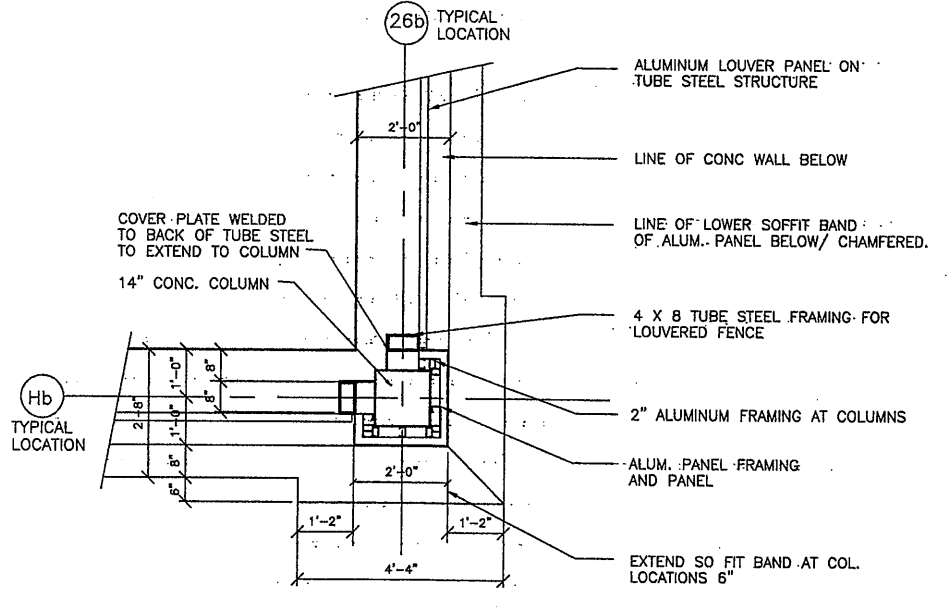
2 PLAN DETAIL/ SECTION @ LOWER SOFFIT
SCALE: 1/4" = 1'-0"



1 PLAN DETAIL/ SECTION @ LOWER WALL
SCALE: 1/4" = 1'-0"

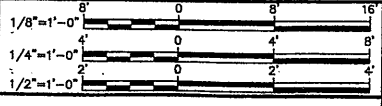


6 TYPICAL PARTIAL ELEVATION
SCALE: 1/8" = 1'-0"



7 PLAN DETAIL/ SECTION @ ROOF
SCALE: 1/2" = 1'-0"

Layer: ON=; OFF=REF*
07/17/00 OBG JAS
EEA-VERT



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	9/XX/05	RECORD DRAWING	TWS

In charge of SAW
Designed by SAW
Drawn by SAW
Checked by SAW

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SYRACUSE, NEW YORK

GROUP 1 DESIGN

SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

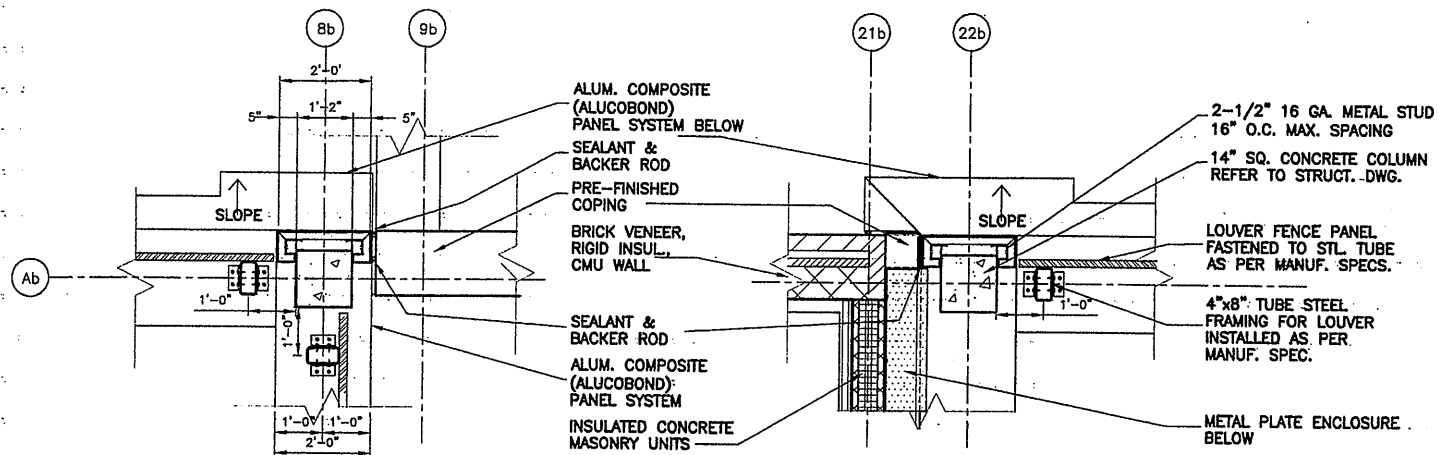
BAF PROCESS/ UTILITY BUILDING
EXTERIOR DETAILS
ARCHITECTURAL

RECORD DRAWING
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DATE: _____ PER: _____

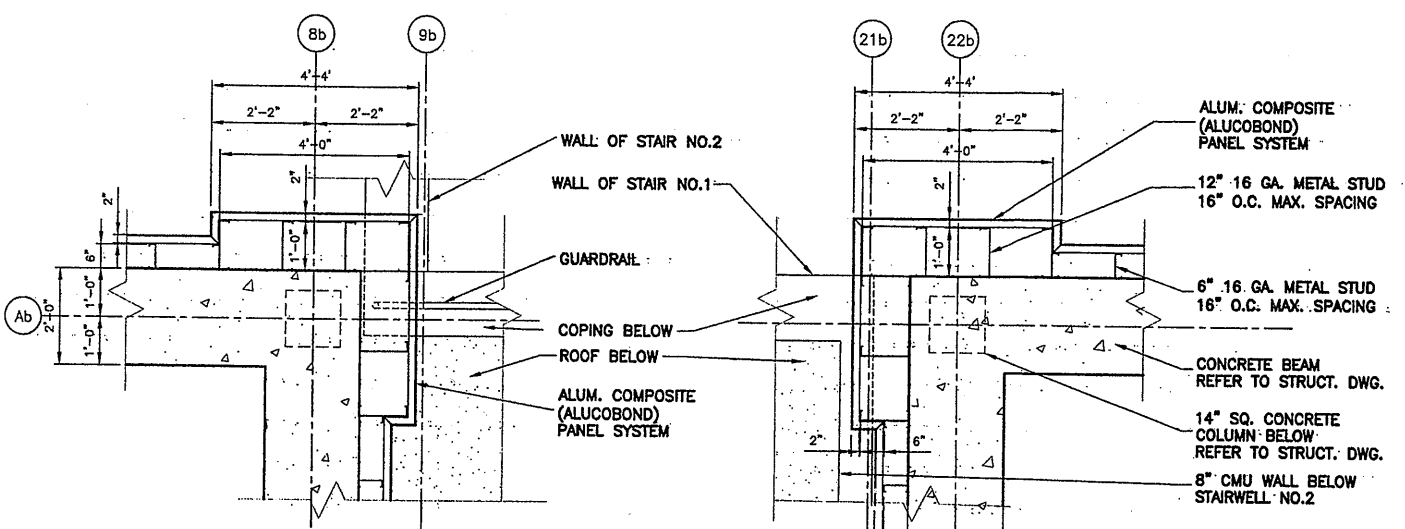
THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

File Number 00659
Date APRIL 2001
A-207

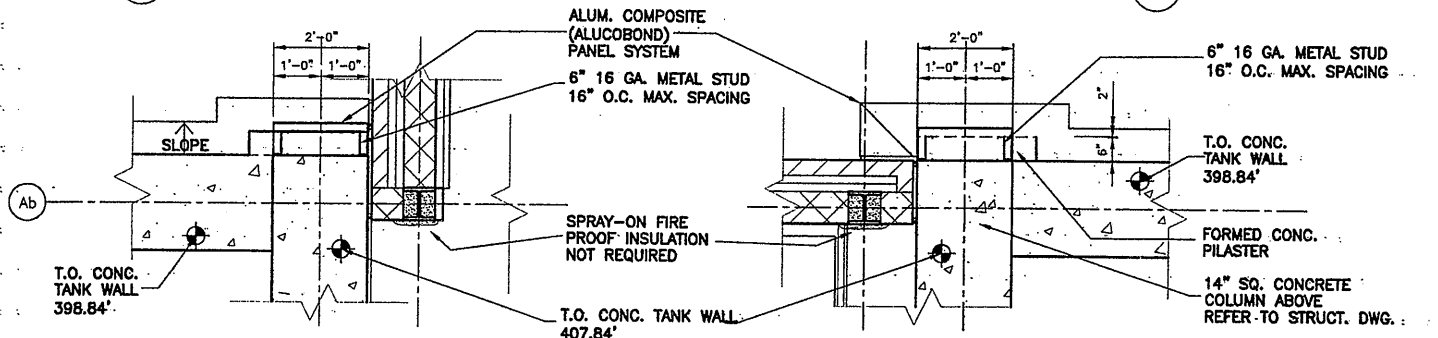
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW



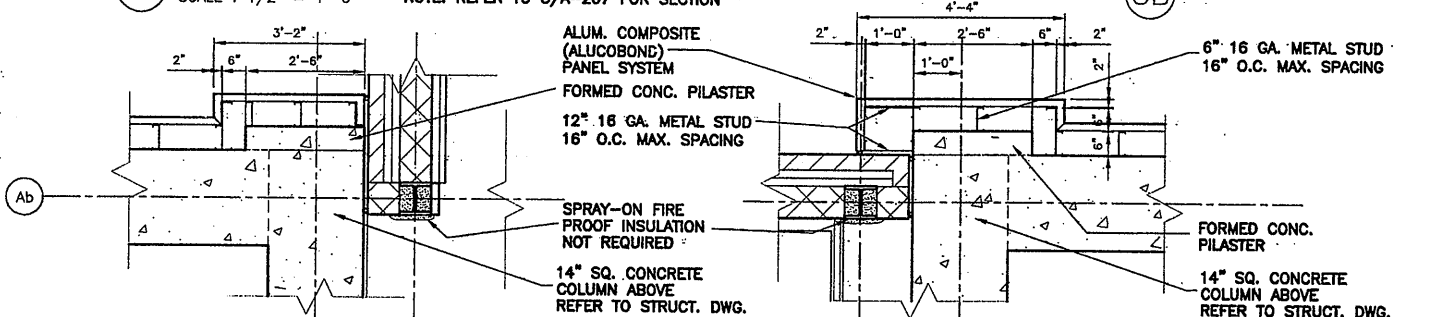
4A PLAN DETAIL/ SECTION @ COLUMNS
 SCALE: 1/2" = 1'-0" NOTE: REFER TO 5/A-207 FOR SECTION



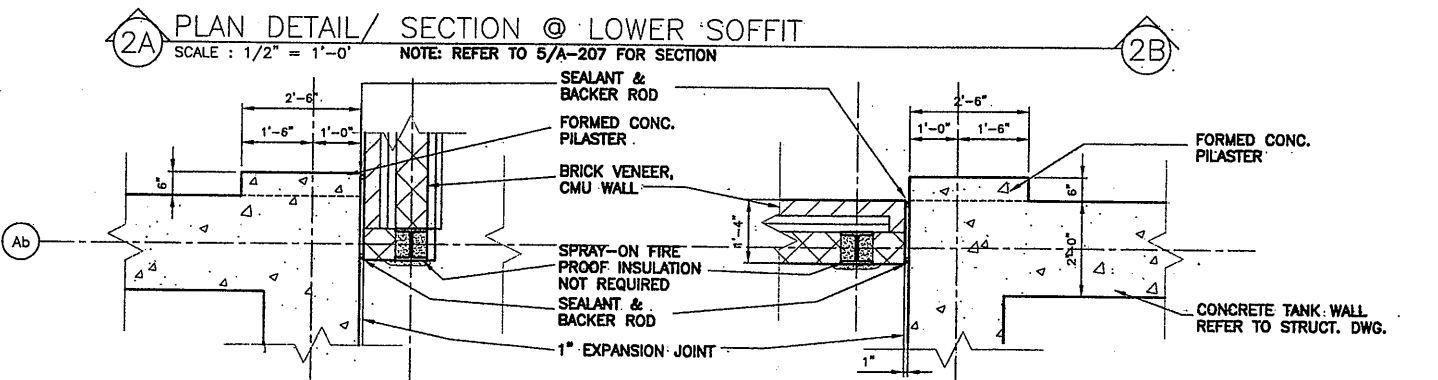
5A PLAN DETAIL/ SECTION @ ROOF
 SCALE: 1/2" = 1'-0" NOTE: REFER TO 5/A-207 FOR SECTION



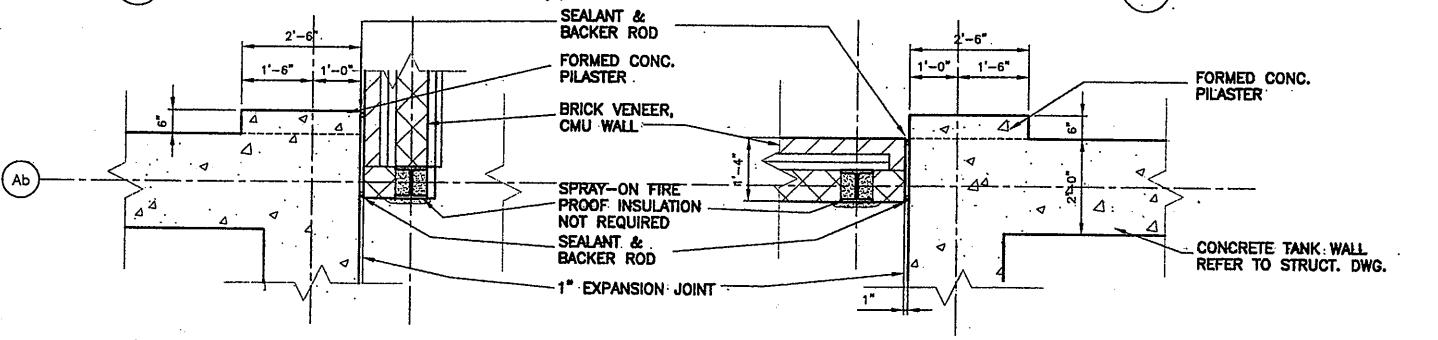
3A PLAN DETAIL/ SECTION @ LOWER SOFFIT
 SCALE: 1/2" = 1'-0" NOTE: REFER TO 5/A-207 FOR SECTION



3B



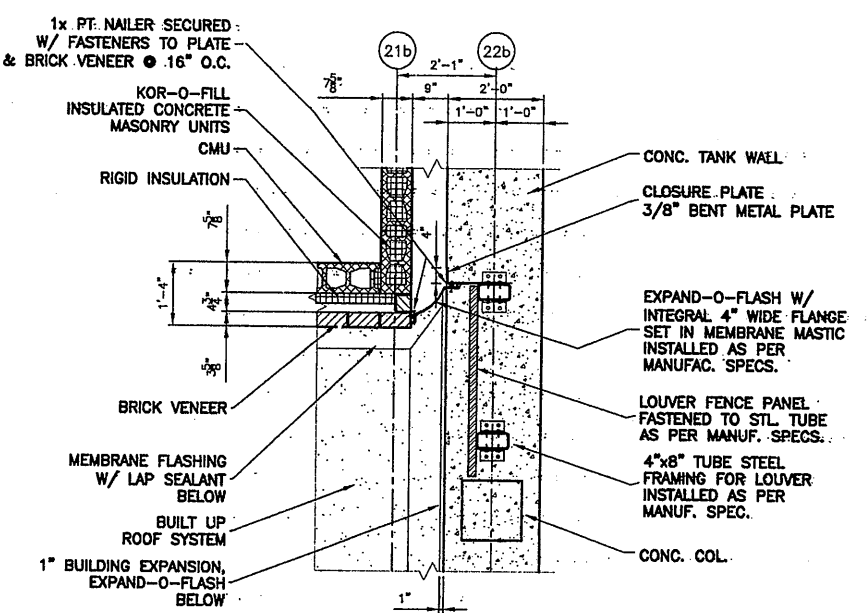
2A PLAN DETAIL/ SECTION @ LOWER SOFFIT
 SCALE: 1/2" = 1'-0" NOTE: REFER TO 5/A-207 FOR SECTION



2B

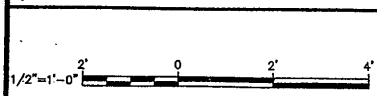


1A PLAN DETAIL/ SECTION @ LOWER WALL
 SCALE: 1/2" = 1'-0" NOTE: REFER TO 5/A-207 FOR SECTION



DETAIL A
 SCALE: 1/2" = 1'-0" A-208

LAYER: ON=*; OFF=*REF*
 06/08/01 OBG
 EEA -VERT



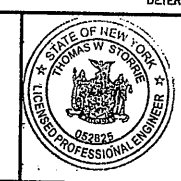
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

No.	Date	Revisions	Init
0		AS BID	TWS
1	0/31/05	RECORD DRAWING	TWS

In charge of TWS
 Designed by BDM
 Drawn by GC
 Checked by BDM



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
 BAF PROCESS / UTILITY BUILDING



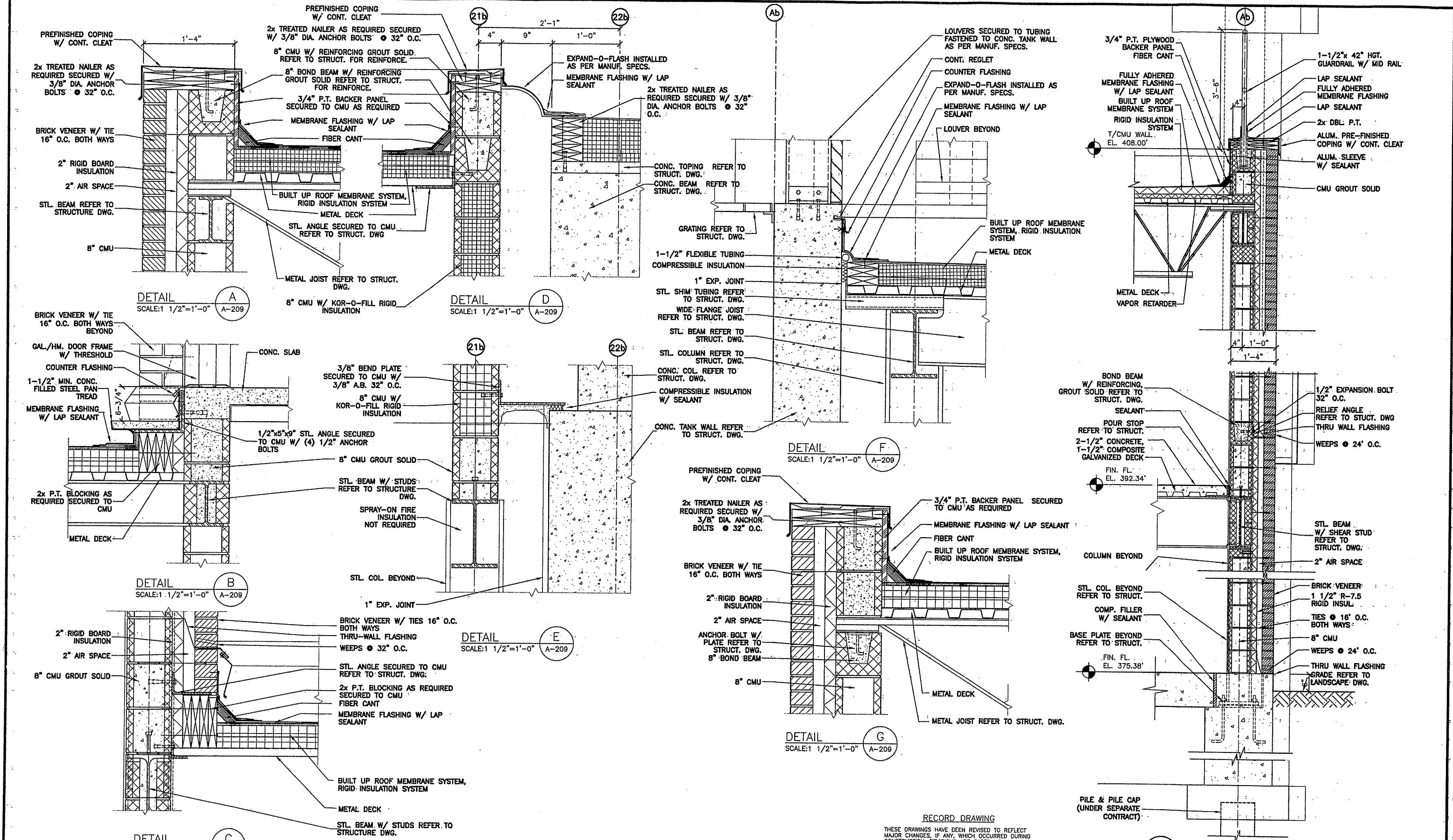
File Number 00659
 Date JUNE 2001

A-208

EXTERIOR DETAILS
 ARCHITECTURAL

RECORD DRAWING
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 DATE: 12-1-05 PER: TJS

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LAYER: ON=; OFF=REF*
06/08/01 OBG GC

RECORD DRAWING
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DATE: 12-1-05 PER: TWS

SECTION 1
SCALE: 3/4" = 1'-0" A-204

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No.	Date	Revisions	Init
0	AS BID		TWS
1	0/31/05	RECORD DRAWING	TWS

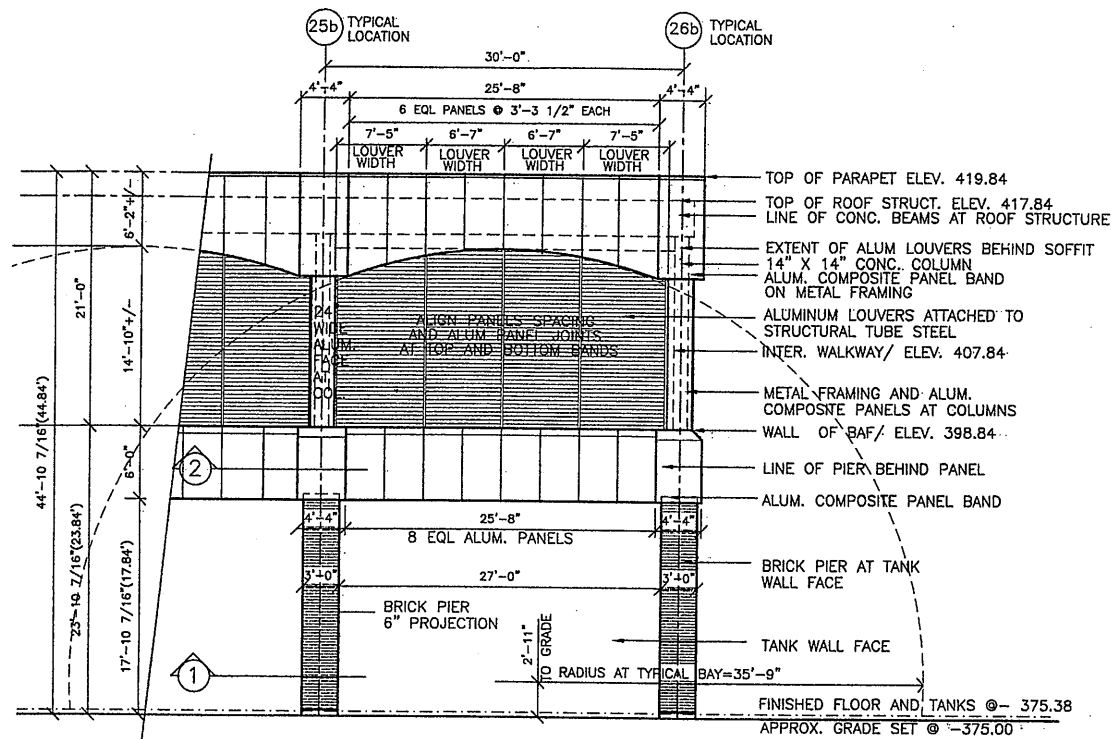
In charge of: TWS
Designed by: BDM
Drawn by: GC
Checked by: BDM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

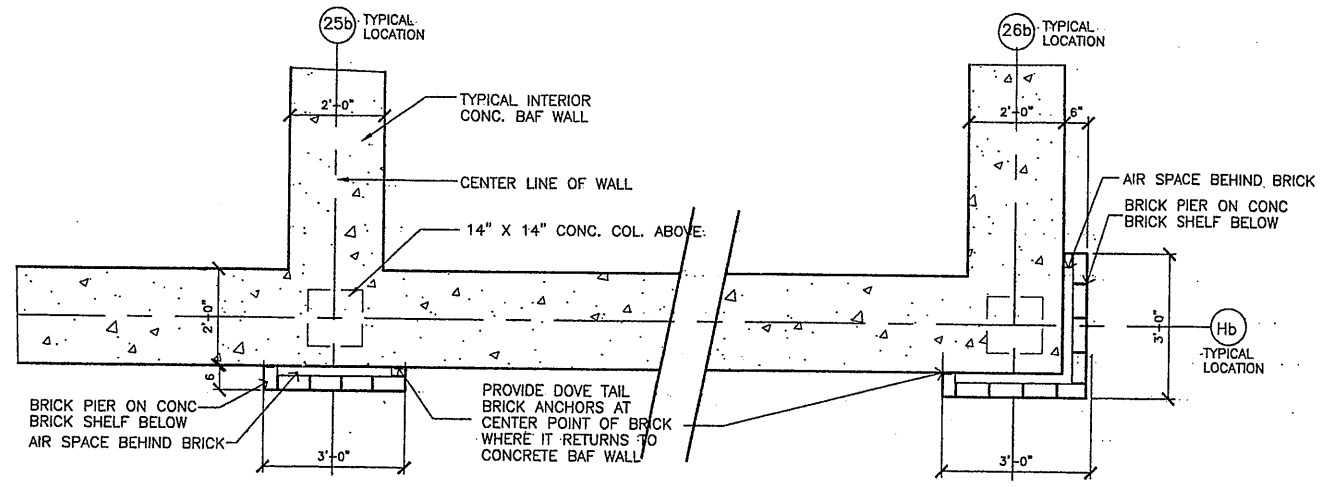
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
BAF PROCESS / UTILITY BUILDING

File Number: 00659
Date: JUNE 2001
A-209

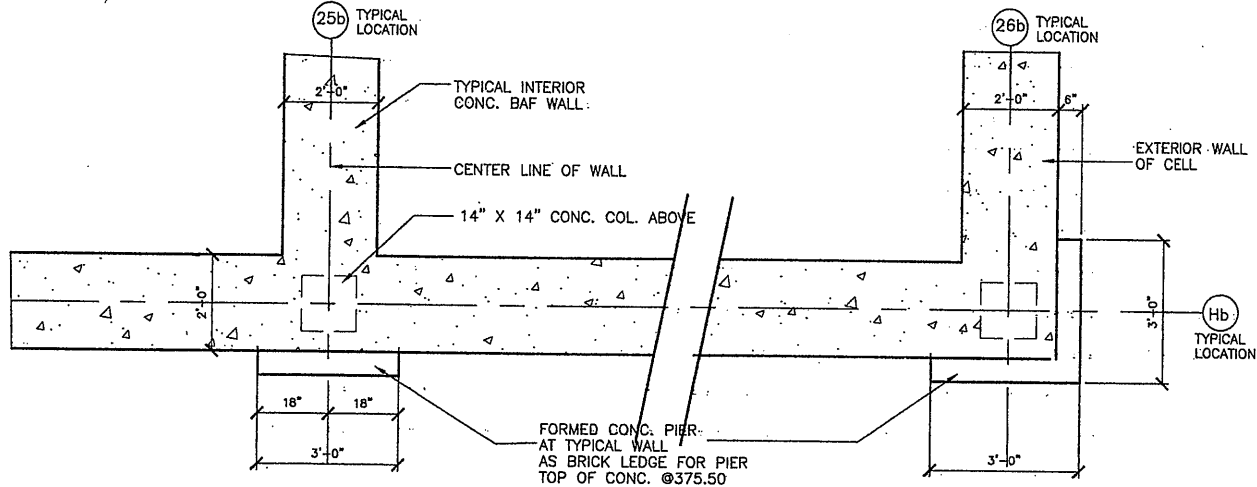
DETAILS
ARCHITECTURAL



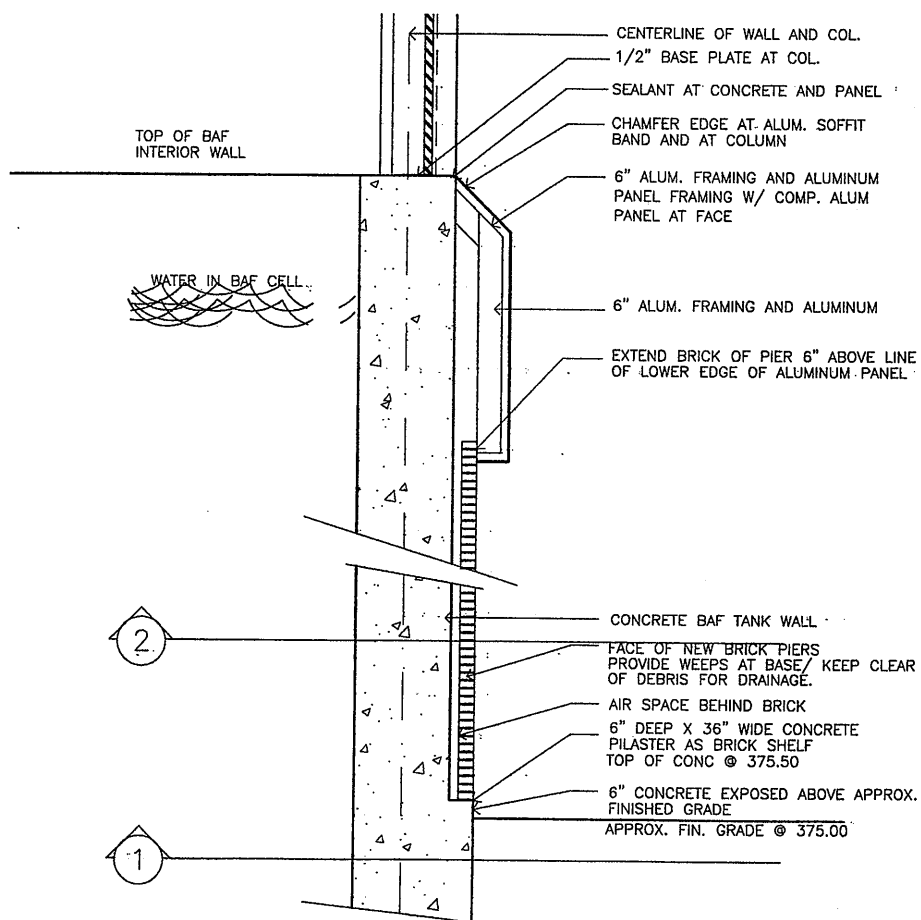
TYPICAL PARTIAL ELEVATION
SCALE : 1/8" = 1'-0"



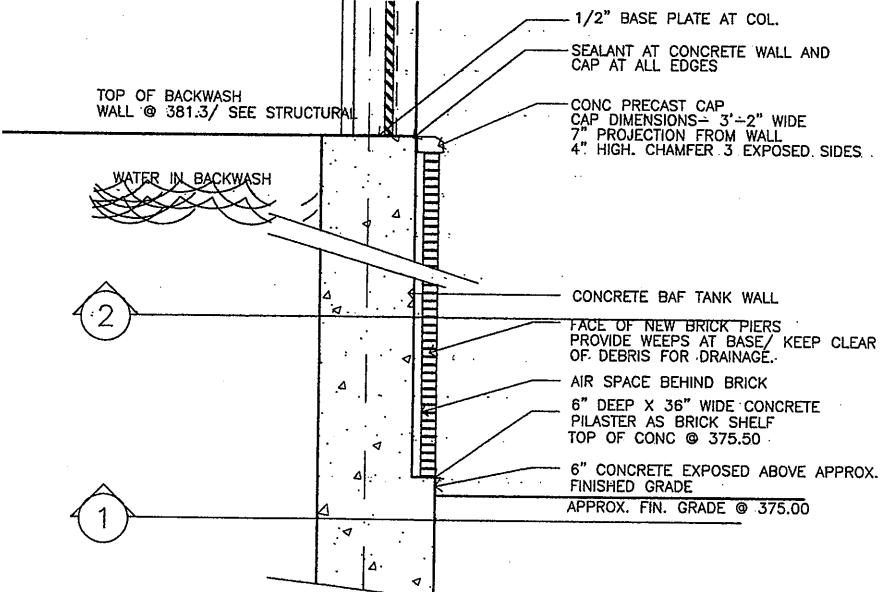
2 PLAN DETAIL/ SECTION @ BRICK PIER
SCALE : 1/2" = 1'-0"



1 PLAN DETAIL/ SECTION @ LOWER WALL
SCALE : 1/2" = 1'-0"

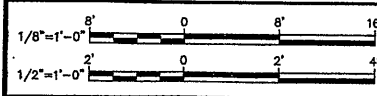


BRICK PIER DETAIL
SCALE : 1/2" = 1'-0"



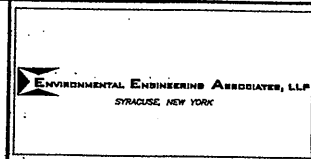
BRICK PIER @ BACKWASH TANK DETAIL
SCALE : 1/2" = 1'-0"

Layer: ON=*; OFF=REF*
07/17/00 OBG JAS
EEA-VERT



No.	Date	Revisions	Init
0	7/27/02	OPTIONAL BID ITEM 4A-13	SAW
1	0/31/05	RECORD DRAWING	TWS

In charge of SAW
Designed by SAW
Drawn by SAW
Checked by SAW



GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGSWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

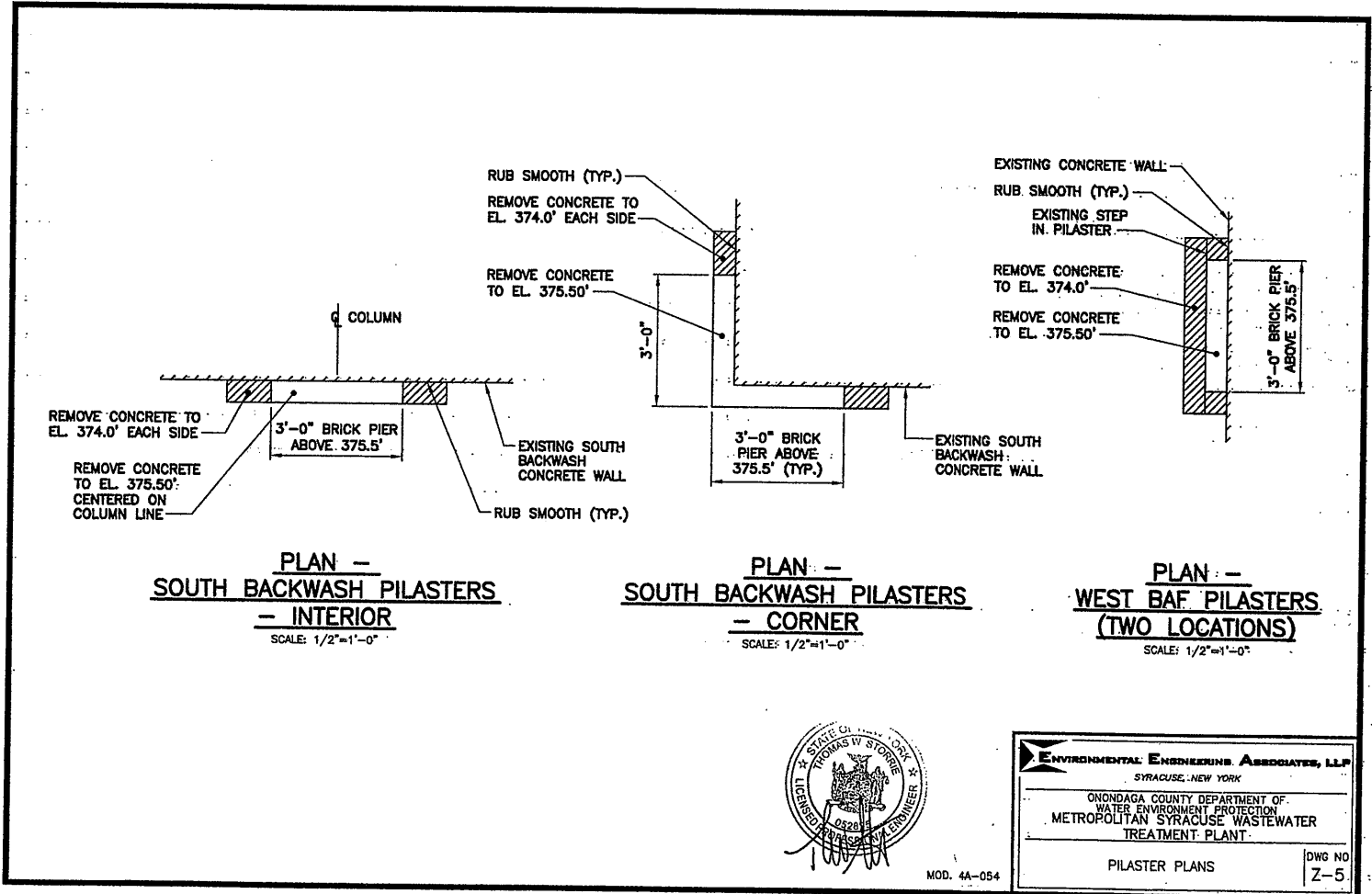
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**BAF / HRFS/ BACKWASH BUILDINGS
EXTERIOR BRICK PIER DETAILS**
ARCHITECTURAL

RECORD DRAWING
NOTE: THIS DRAWING TO BE ASSOCIATED WITH FIELD ORDER #4A-024

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE, MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

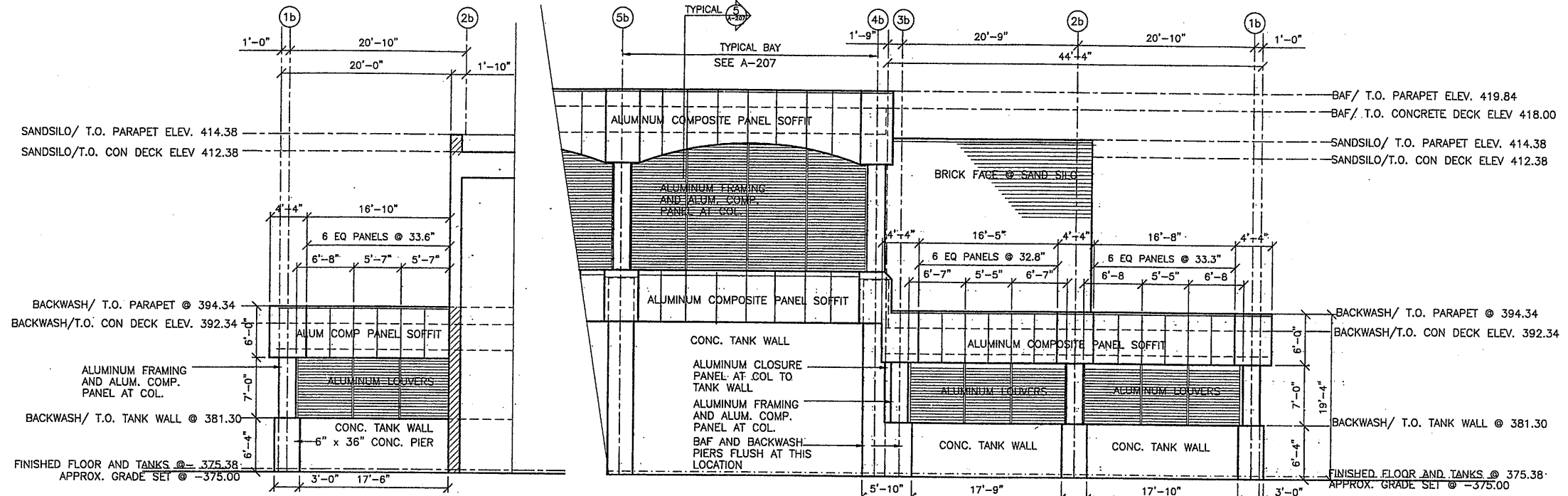
File Number 00659	Z-2
Date JULY 2002	



RECORD DRAWING
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 DATE: 12-1-05 PER: JLS



ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK
 ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 PILASTER PLANS
 MOD. 4A-054
 DWG NO Z-5



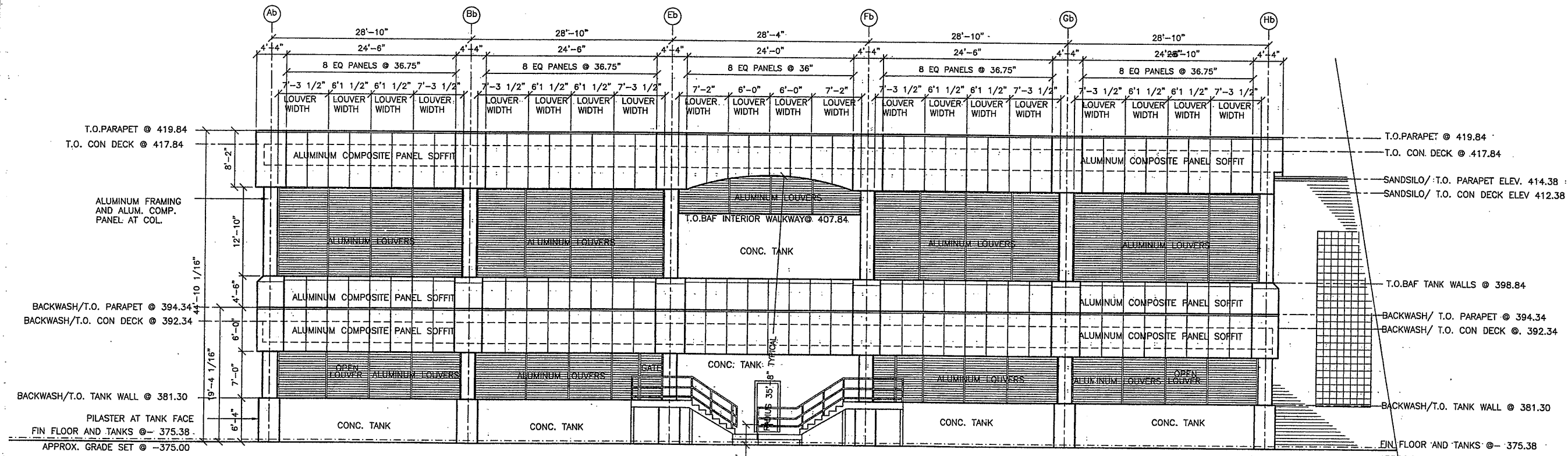
IF AUTHORIZED BY THE OWNER, INSTALL BRICK WITH 2" AIR SPACE OVER EXISTING CONCRETE PIERS THAT ARE INCLUDED IN THE DESIGN. THE NEW FINISHED OUTSIDE DIMENSIONS OF THE PIERS TO RECEIVE BRICK FACE OVER CONCRETE PIERS:

BAF LOCATIONS:
 - NORTH WALL COLUMN LINES Ab, Bb, Eb, Gb, Hb
 - SOUTH WALL (BACKWASH STRUCTURE) COLUMN LINES Ab, Bb, Eb, Fb, Gb, Hb
 - EAST WALL COLUMN LINES 1b (BACKWASH STRUCTURE) 22b, 23b, 24b, 25b, 26b
 - WEST WALL COLUMN LINES 1b, 2b, 3b, 4b, 5b, 6b, 7b, 8b, 22b, 23b, 24b, 25b, 26b
 - THE COLUMN LINES 1b, 2b, AND 3b ARE LOCATED ON THE BACKWASH STRUCTURE.

HRFS LOCATIONS:
 - NORTH WALL: COLUMN LINES Bb, Ch, Dh, Eh, Fh

PARTIAL EAST ELEVATION- BACKWASH TANKS
 SCALE: 1/8" = 1'-0"

PARTIAL WEST ELEVATION- BACKWASH TANKS
 SCALE: 1/8" = 1'-0"



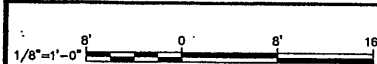
PARTIAL EAST ELEVATION- BACKWASH TANKS
 SCALE: 1/8" = 1'-0"

BACKWASH LOUVER ENCLOSURE NOTE:
 PROVIDE ALUMINUM BLANK OFF PANELS
 AT REAR OF EACH LOUVER AT ALL SIDES
 OF BACKWASH TANKS ONLY. OMIT REAR
 PANELS AT LOUVERS INDICATED AS OPEN

RECORD DRAWING
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 MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING
 CONSTRUCTION. REVISIONS ARE BASED UPON
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 DATE: _____ PER: _____

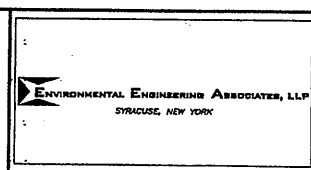
THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE
 TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE
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Layer: ON=*; OFF=*REF*
 07/17/00 OBG JAS
 EEA-VERT



No.	Date	Revisions	Init
0		AS BID	SAW
1	10/31/05	RECORD DRAWING	TWS

In-charge of SAW
 Designed by SAW
 Drawn by SAW
 Checked by SAW

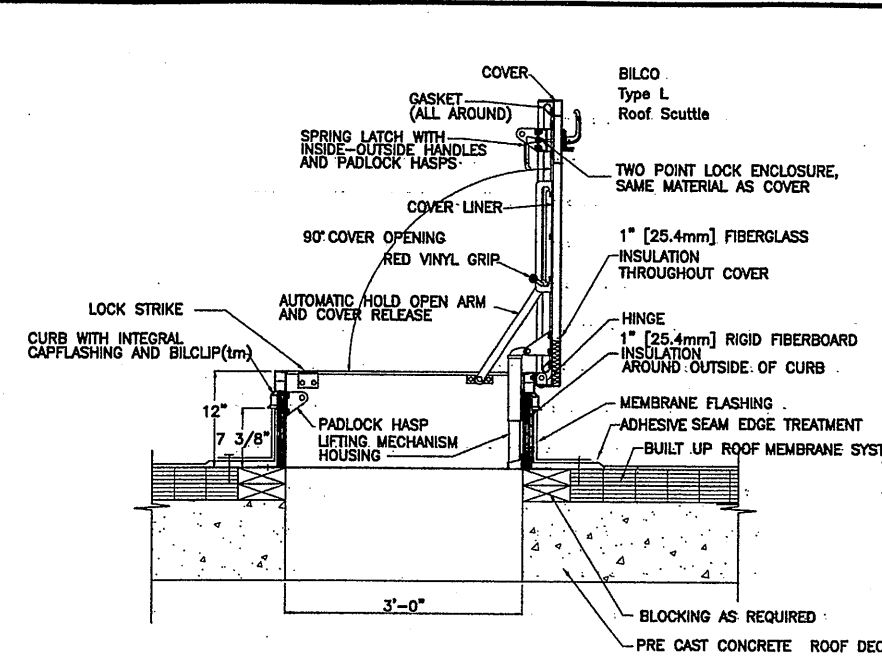
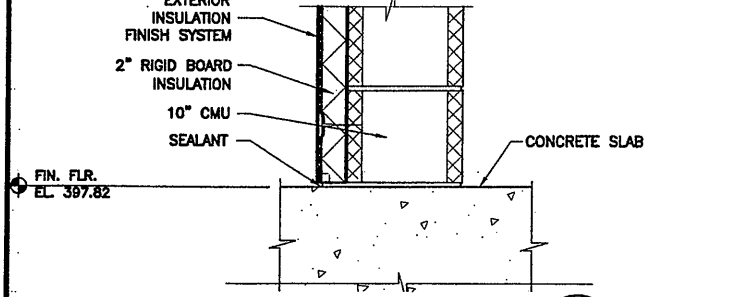
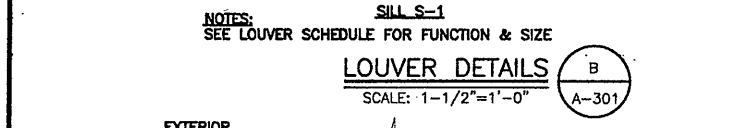
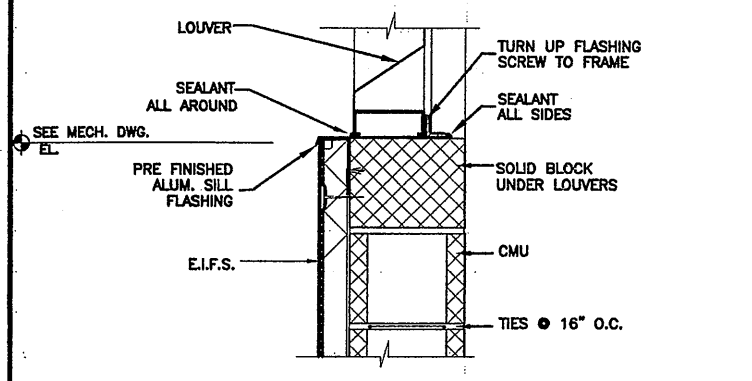
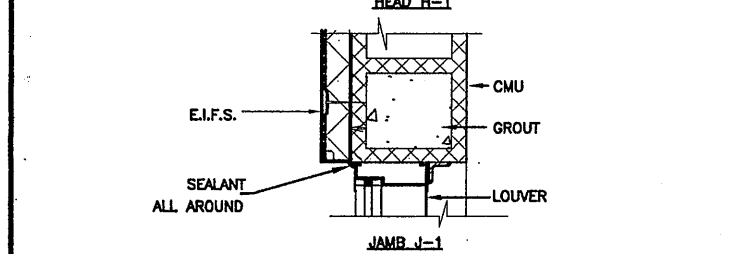
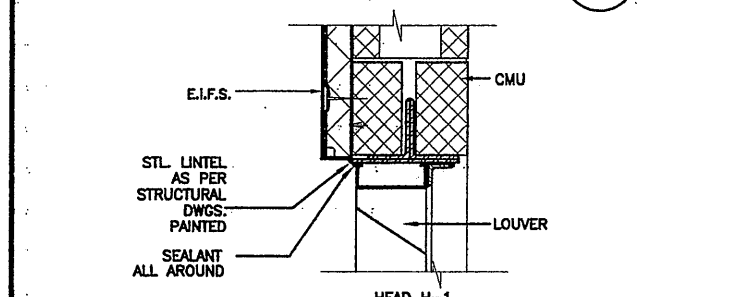
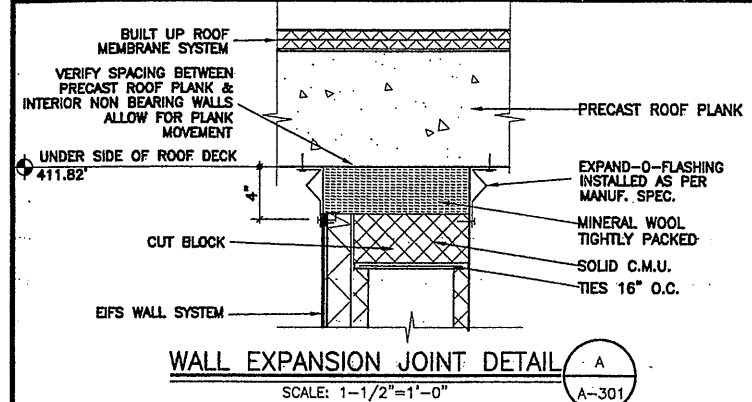


GROUP 1 DESIGN
 SHEILA WEED ARCHITECT
 317 SOUTH COLLINGWOOD AVE.
 SYRACUSE, NEW YORK 13208
 315-434-1844 / FAX 434-1845

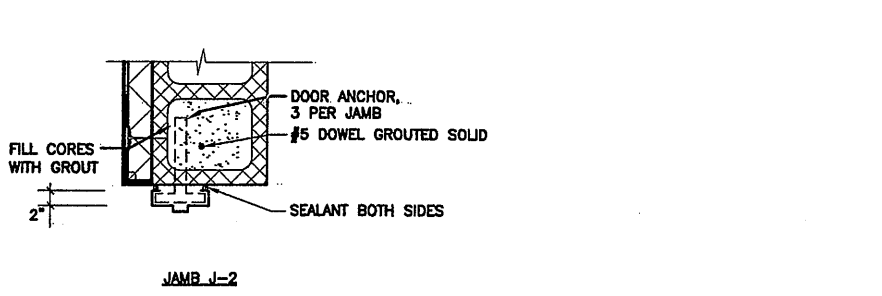
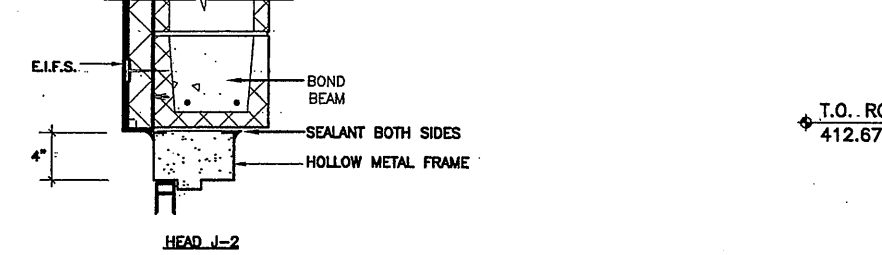
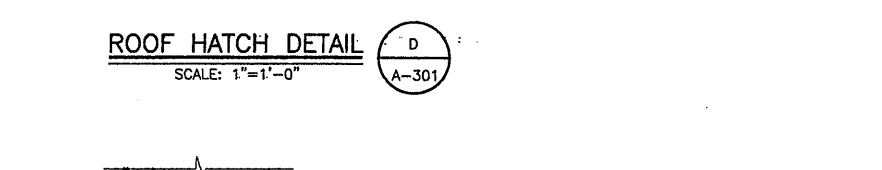
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**BAF PROCESS/ UTILITY BUILDING
 BACKWASH ELEVATIONS AND DETAILS**
 ARCHITECTURAL

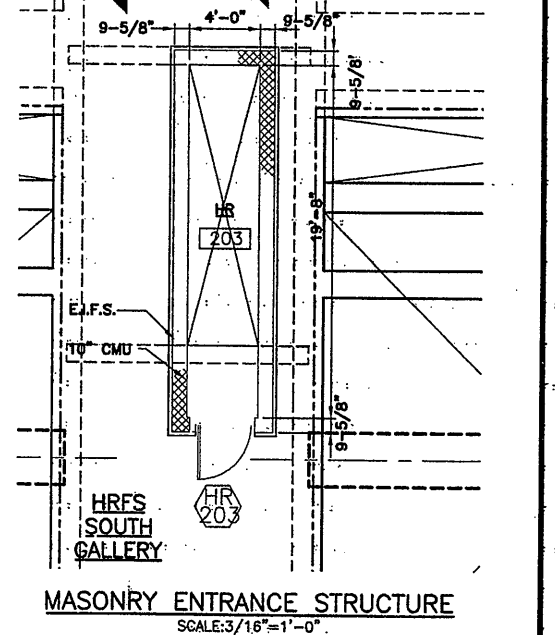
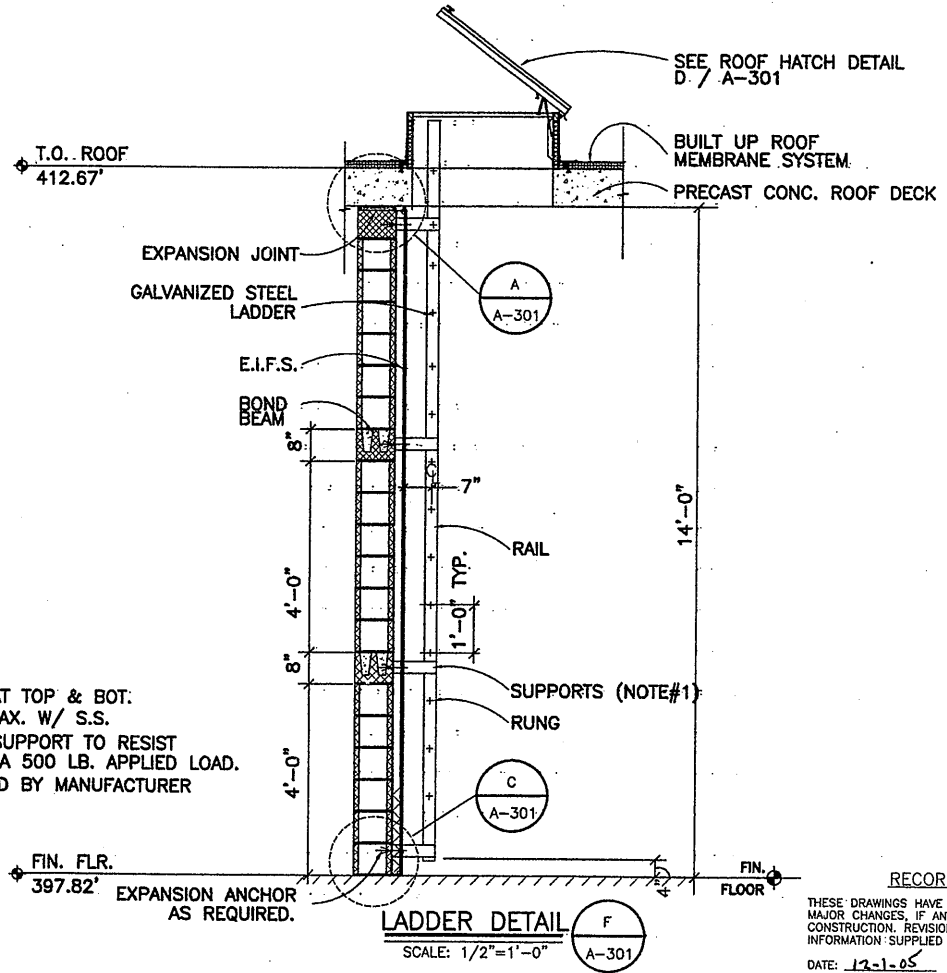
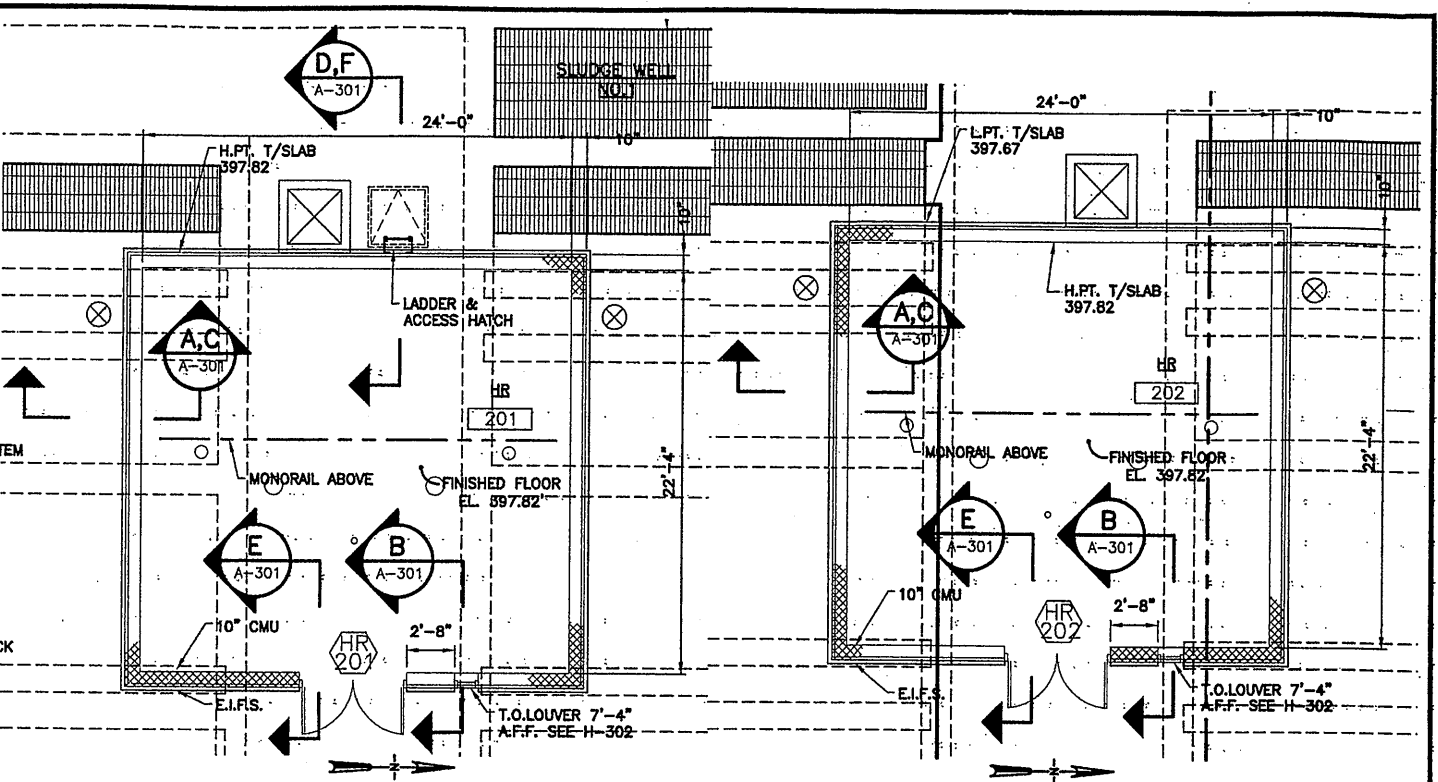
File Number 00659	A-210
Date JUNE 2001	



NOTES:
1. CONTRACTOR TO COORDINATE ALL SLAB PENETRATION SIZES W/EQUIPMENT MFR.



GENERAL LADDER NOTES:
1.) SUPPORTS SHALL BE AT TOP & BOT. AND AT 10'-0" O.C. MAX. W/ S.S. ANCHORS. DESIGN EA. SUPPORT TO RESIST SHEAR & PULLOUT OF A 500 LB. APPLIED LOAD. LADDER SHALL BE DESIGNED BY MANUFACTURER TO MEET O.S.H.A.



00659 X-203, X-302, X303
09/21/00 CAZ MJL
EEA-VERT

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	TWS
1		AS BID	TWS
2	10/31/05	RECORD DRAWING	TWS

In charge of TWS
Designed by BDM
Drawn by GC
Checked by BDM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX

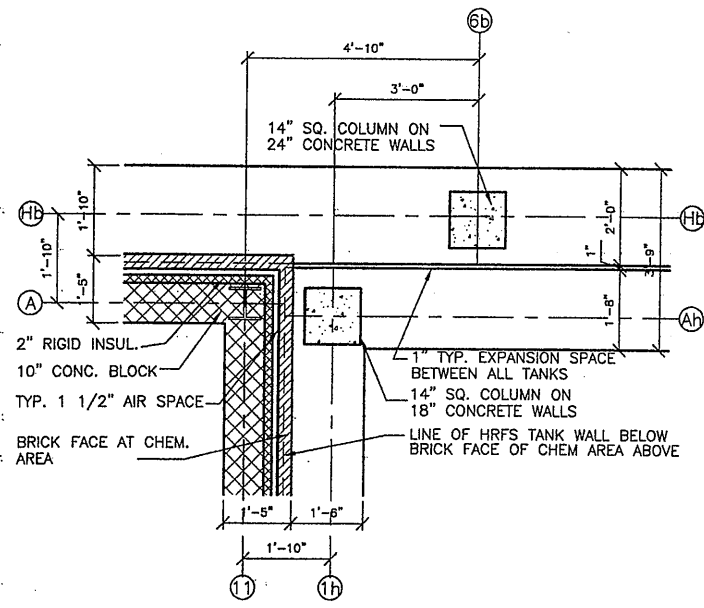
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DATE: 12-1-05 PER: TWS

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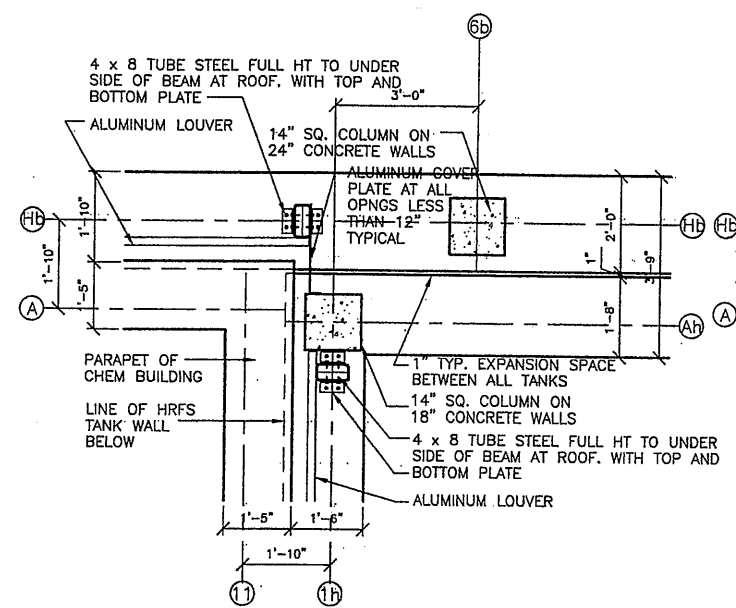
File Number: 00659
Date: APRIL 2001
A-301

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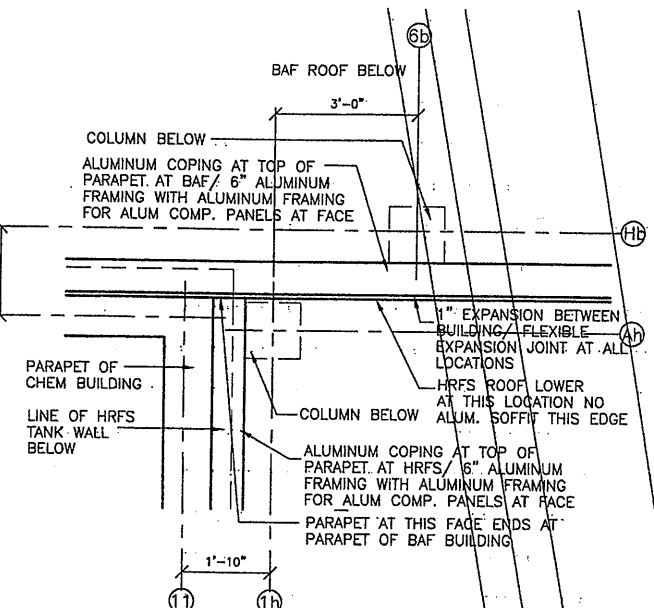
PARTIAL PLANS, SECTIONS AND DETAILS
ARCHITECTURAL



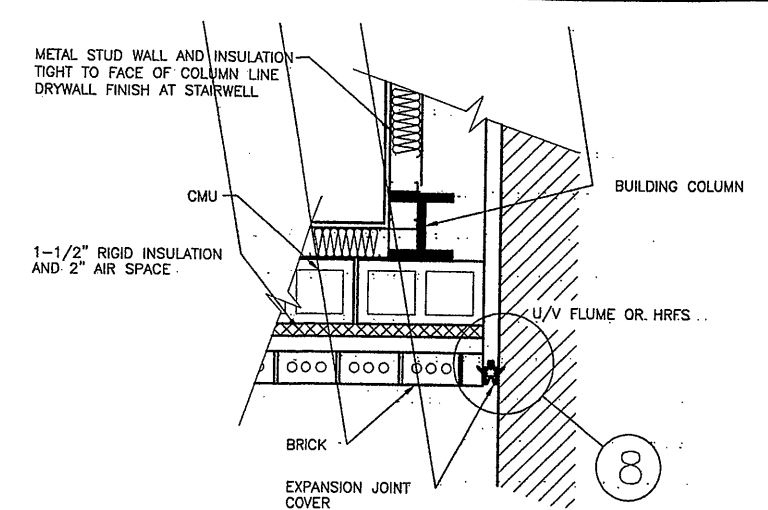
① PLAN DETAIL AT BAF/HRFS/OC
SCALE: 1/2" = 1'-0"



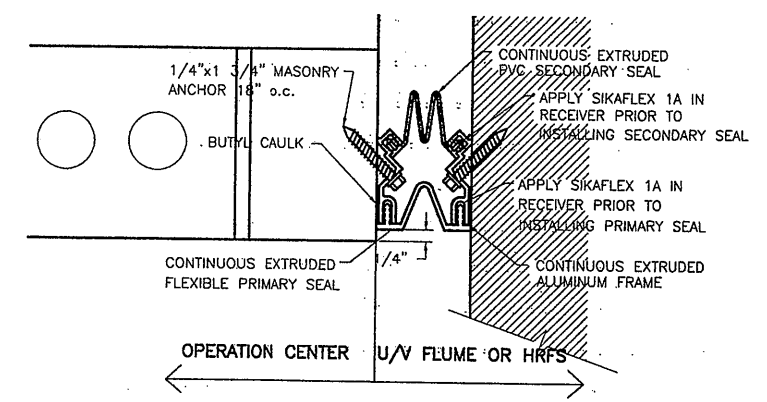
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SCALE: 1/2" = 1'-0"



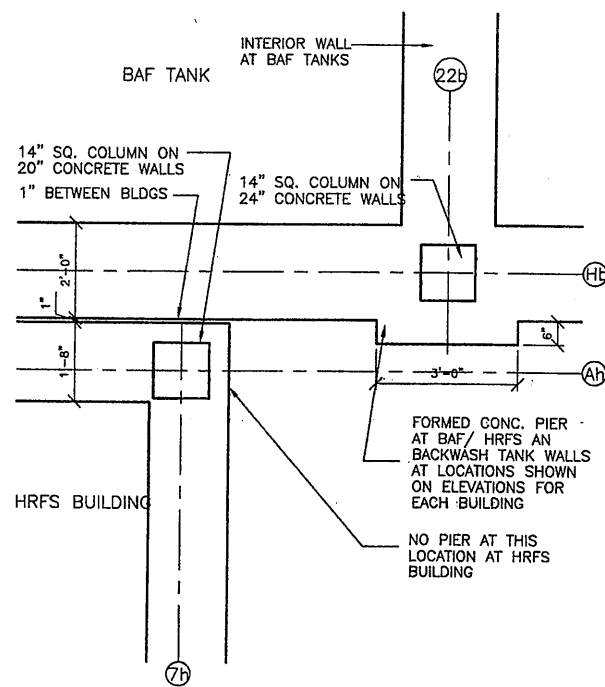
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SCALE: 1/2" = 1'-0"



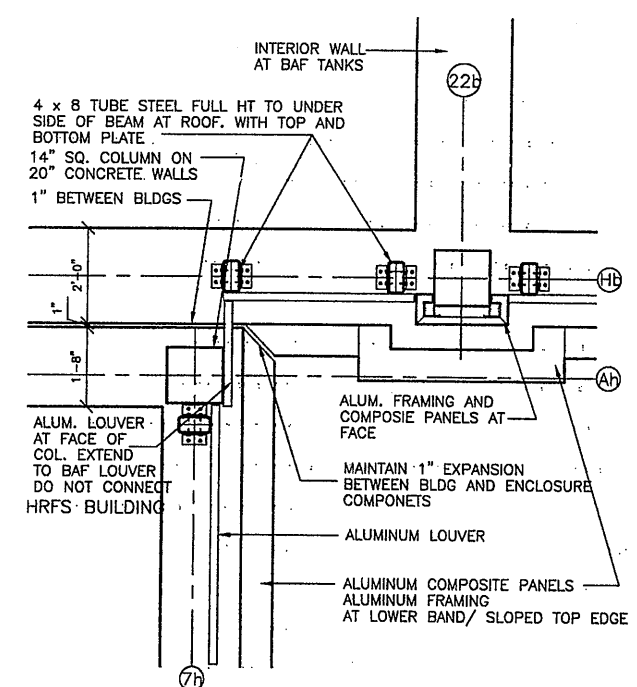
⑦ TYPICAL VERTICAL EXPANSION JT.
SCALE: 1" = 1'-0"



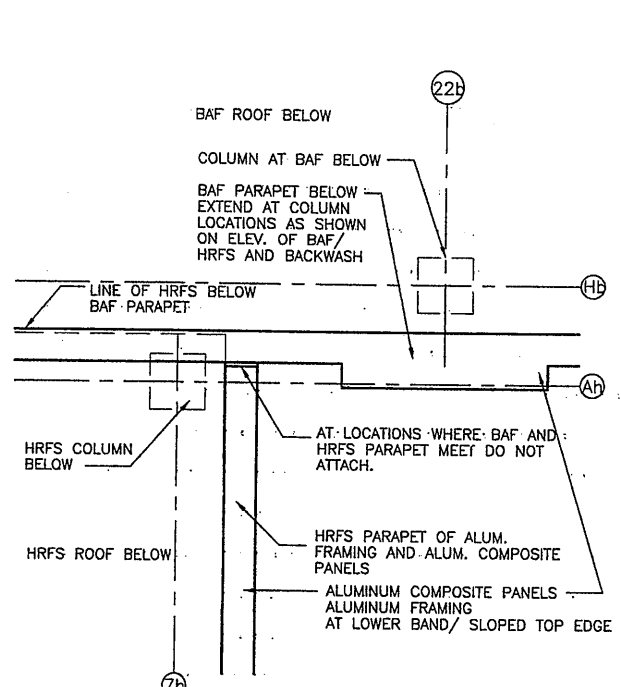
⑧ TYPICAL VERTICAL EXP. JT. PLAN
SCALE: 6" = 1'-0"



④ BUILDING ALIGNMENT DRAWING
SCALE: 1/2" = 1'-0"

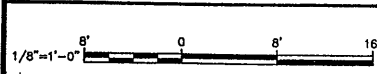


⑤ BUILDING ALIGNMENT DRAWING
SCALE: 1/2" = 1'-0"



⑥ BUILDING ALIGNMENT DRAWING
SCALE: 1/2" = 1'-0"

Layer: ON=*; OFF=*REF*
07/17/00 OBG JAS
EEA-VERT



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No.	Date	Revisions	Init
0		AS BID	SAW
1	10/31/05	RECORD DRAWING	TWS

In charge of SAW
Designed by SAW
Drawn by SAW
Checked by SAW

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13205
315-434-1844 / FAX 434-1845

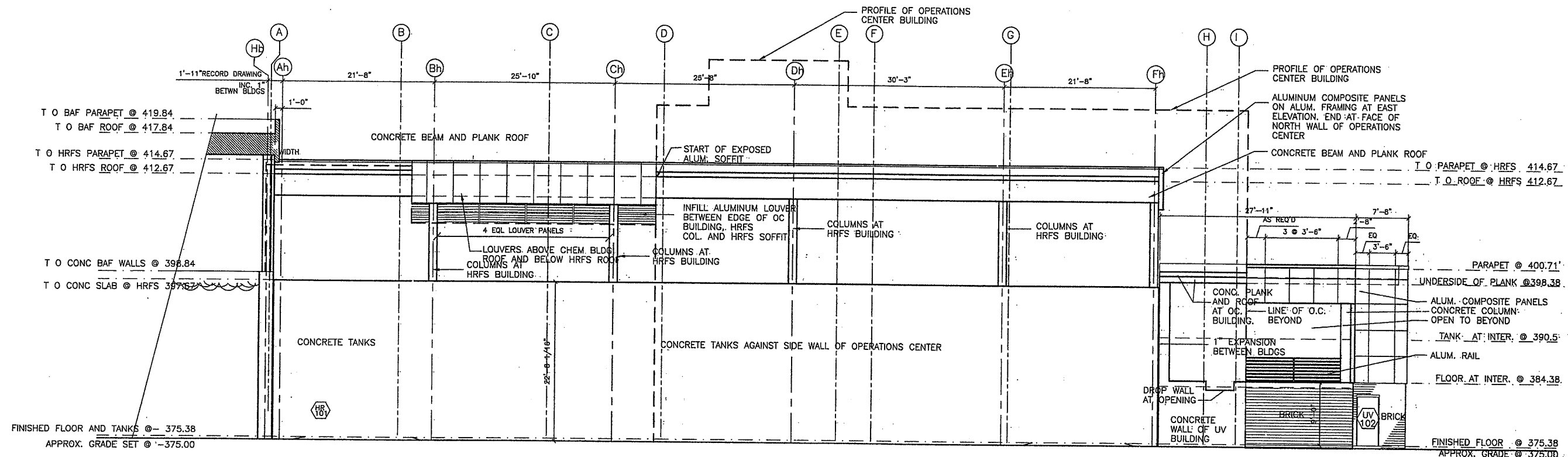
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

UV DISINFECTION & HRFS BUILDING
DETAILS
ARCHITECTURAL

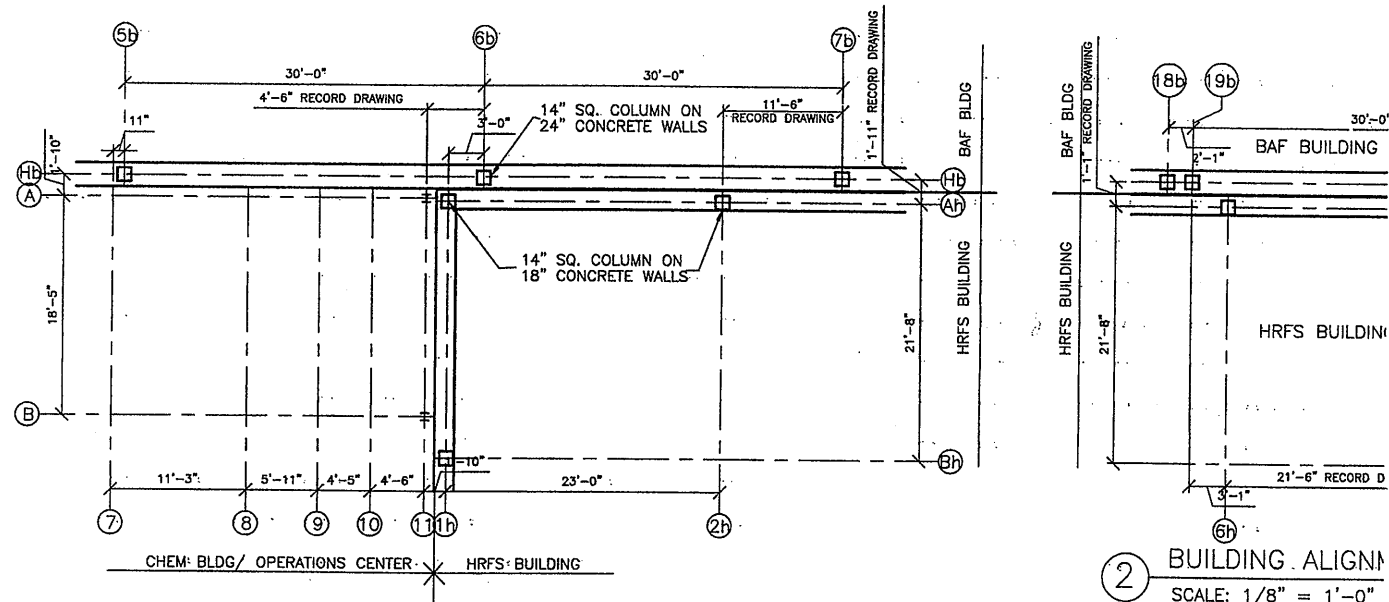
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File Number: 00659
Date: JUNE 2001
A-302



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



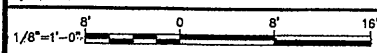
① BUILDING ALIGNMENT DRAWING

② BUILDING ALIGNMENT
SCALE: 1/8" = 1'-0"

RECORD DRAWING
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DATE: _____ PER: _____

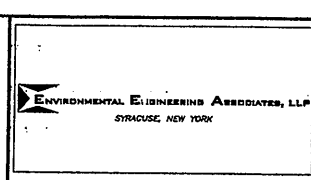
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1	0/31/05	RECORD DRAWING	TWS

In charge of: SAW
Designed by: SAW
Drawn by: SAW
Checked by: SAW

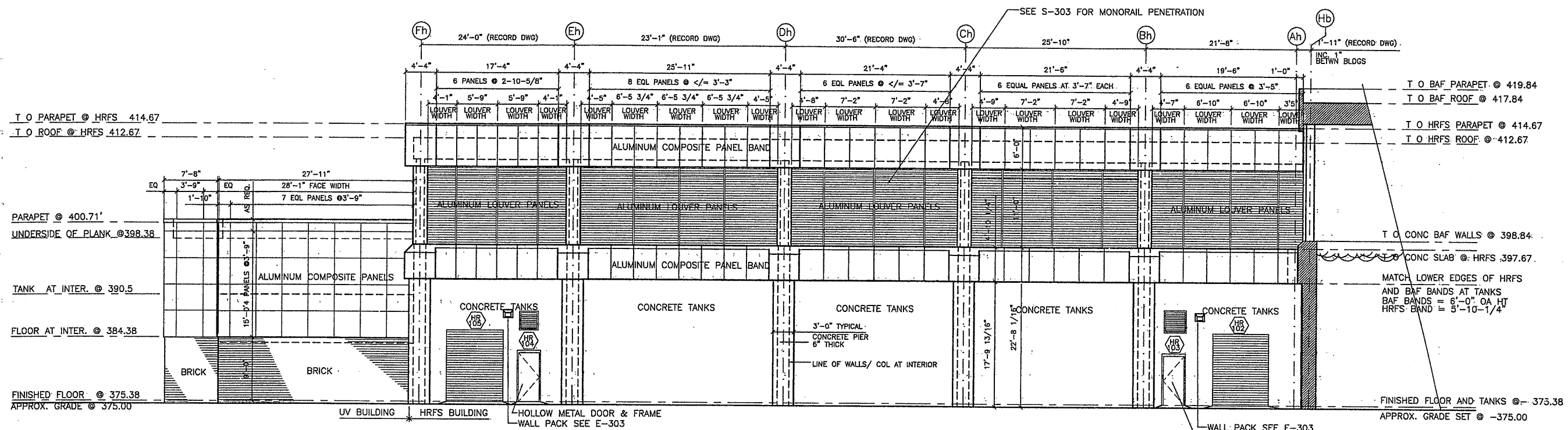


GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

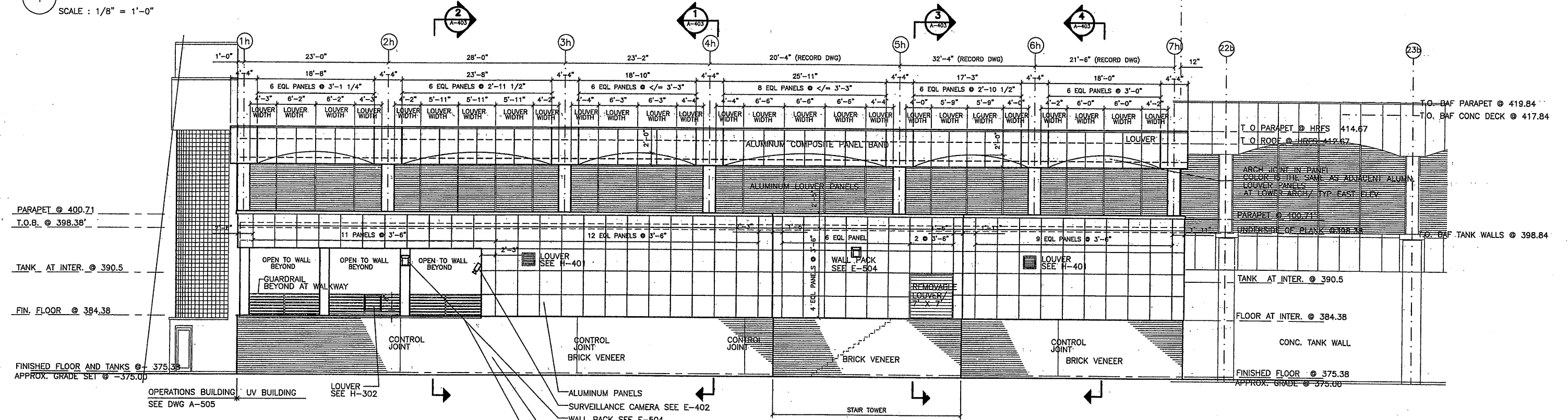
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
UV DISINFECTION & HRFS BUILDING
SOUTH ELEVATION AND DETAILS
ARCHITECTURAL

File Number 00659	A-303
Date JUNE 2001	

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1 PROJECT NORTH ELEVATION- UV DISINFECTION AND HRFS TANKS
SCALE : 1/8" = 1'-0"



2 PROJECT EAST ELEVATION- UV DISINFECTION AND HRFS TANKS
SCALE : 1/8" = 1'-0"

LAYER: ON=*; OFF=*REF*
06/19/01 OBG JAS
EEA -VERT

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Checked by BDM

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SYRACUSE, NEW YORK

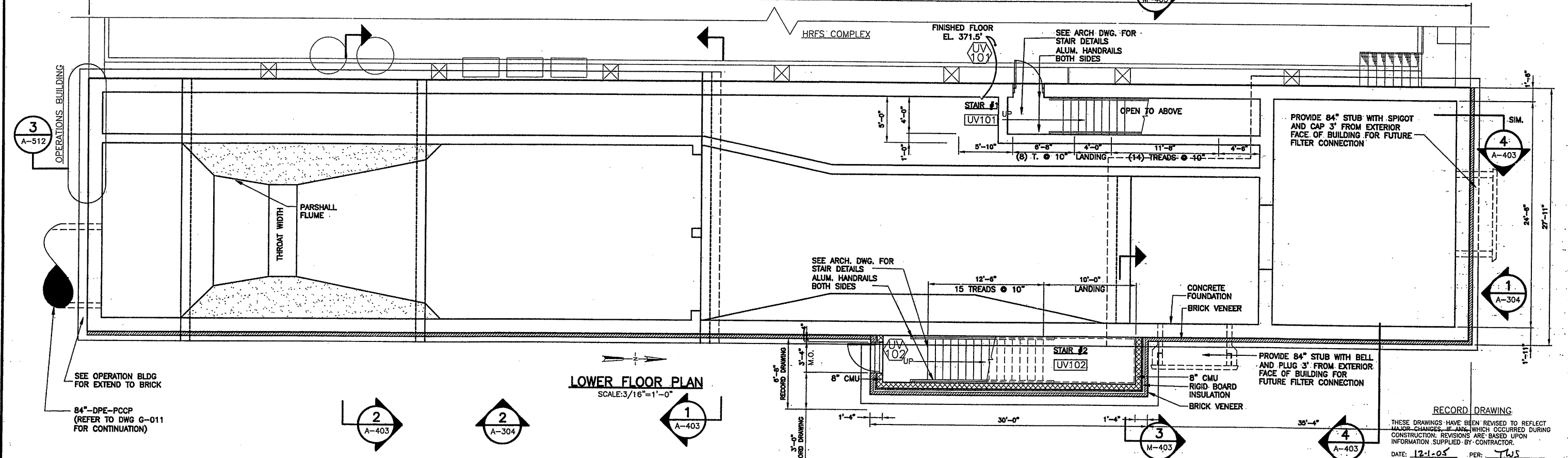
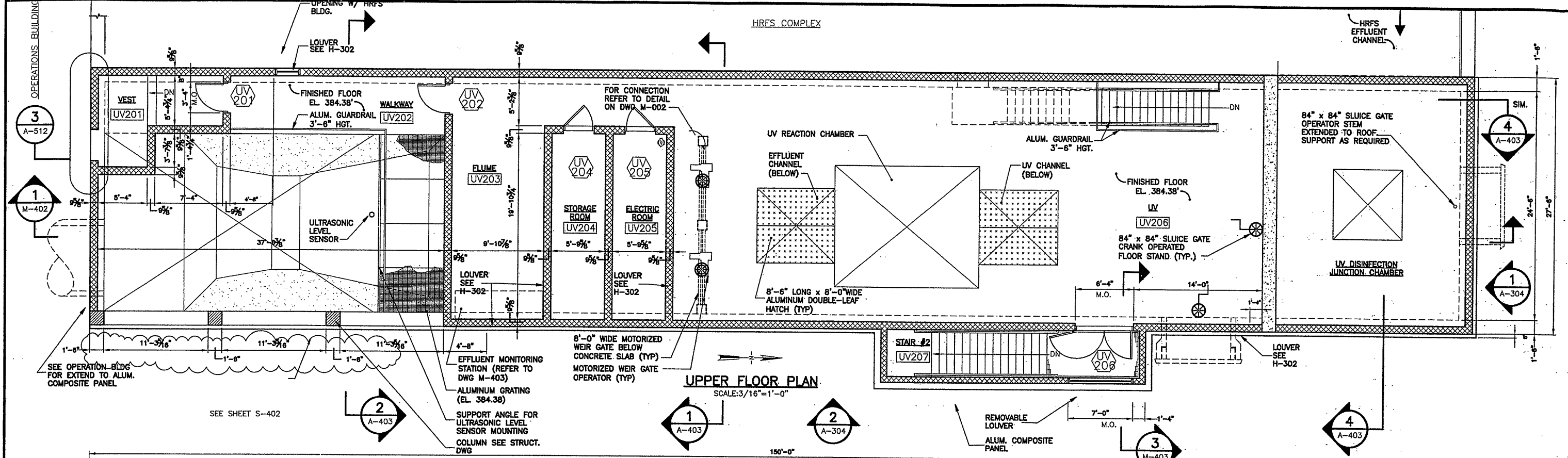
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
UV DISINFECTION & HRFS BUILDING
NORTH & EAST ELEVATIONS

RECORD DRAWING
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DATE: 12-1-05 PER: TWS

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File Number: 00659
Date: APRIL 2001
A-304

ARCHITECTURAL



0659401, 0659402
11/06/00 S&W JDB
0659401

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	TWS
1		AS BID	TWS
2	10/31/05	RECORD DRAWING	TWS

In charge of _____
 Designed by BDM
 Drawn by GC
 Checked by BDM

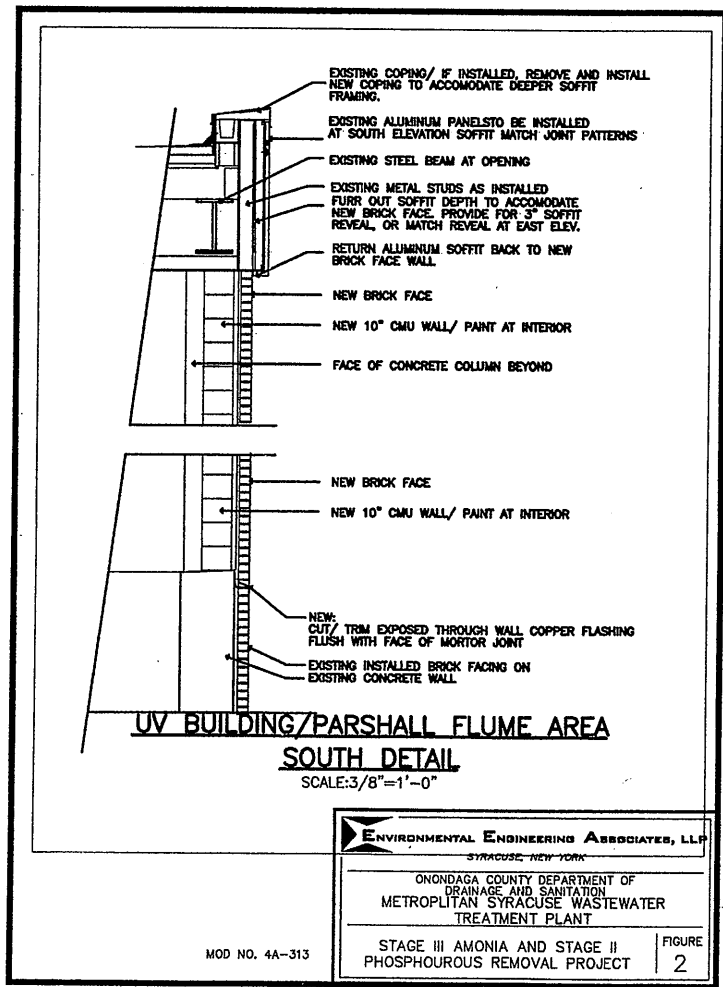
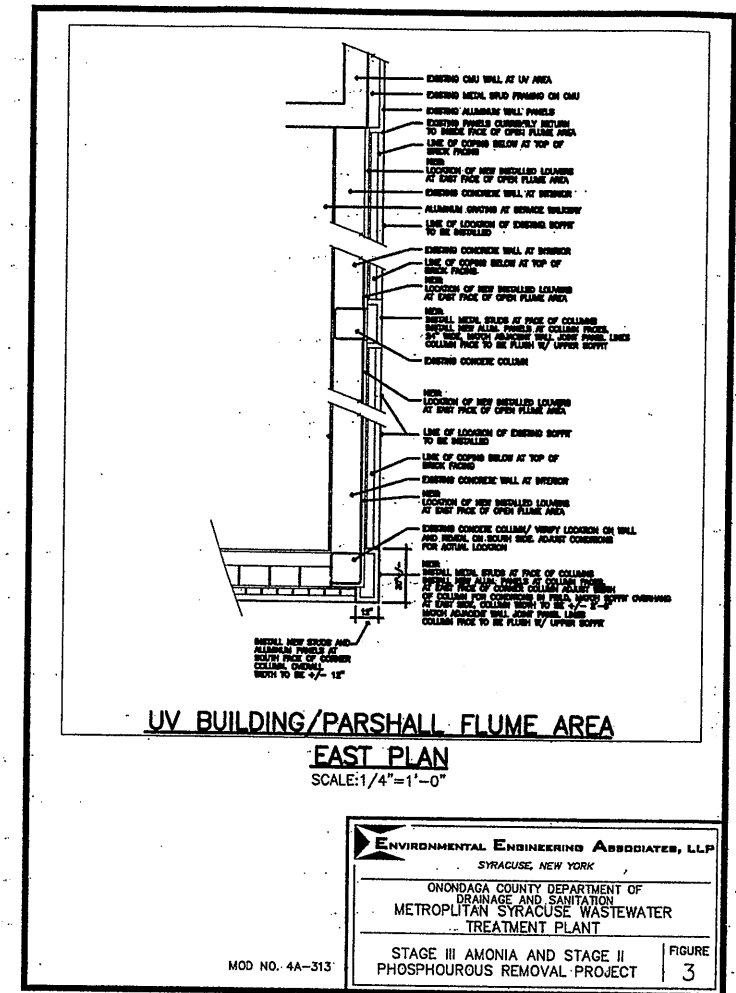
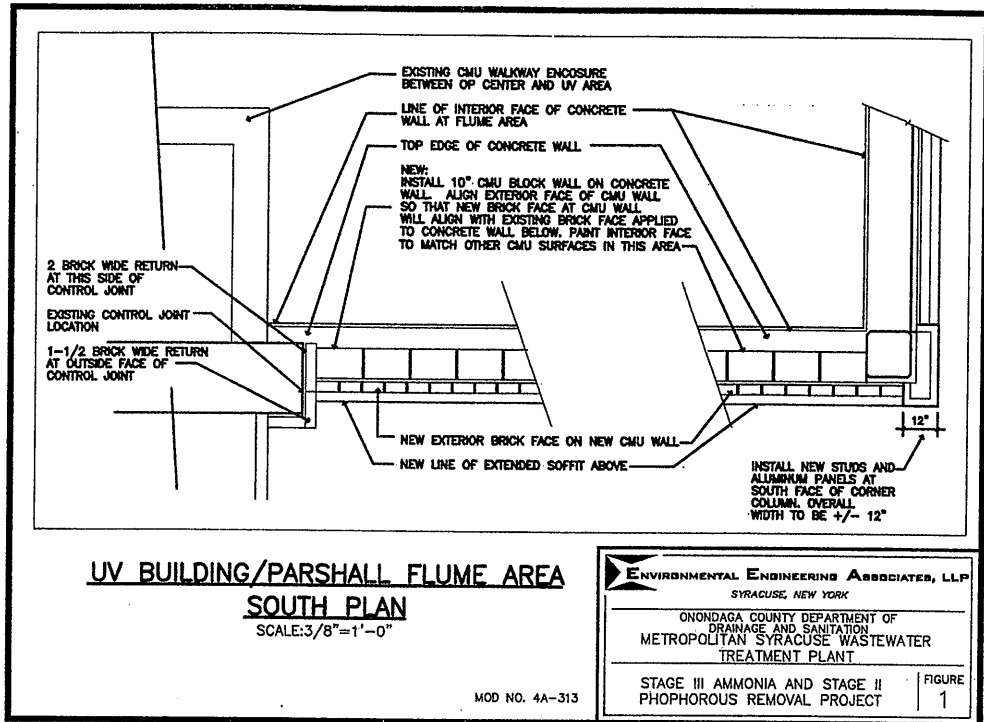
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
UV DISINFECTION FLOOR PLANS
 ARCHITECTURAL

RECORD DRAWING
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 DATE: 12-1-05 PER: TWS

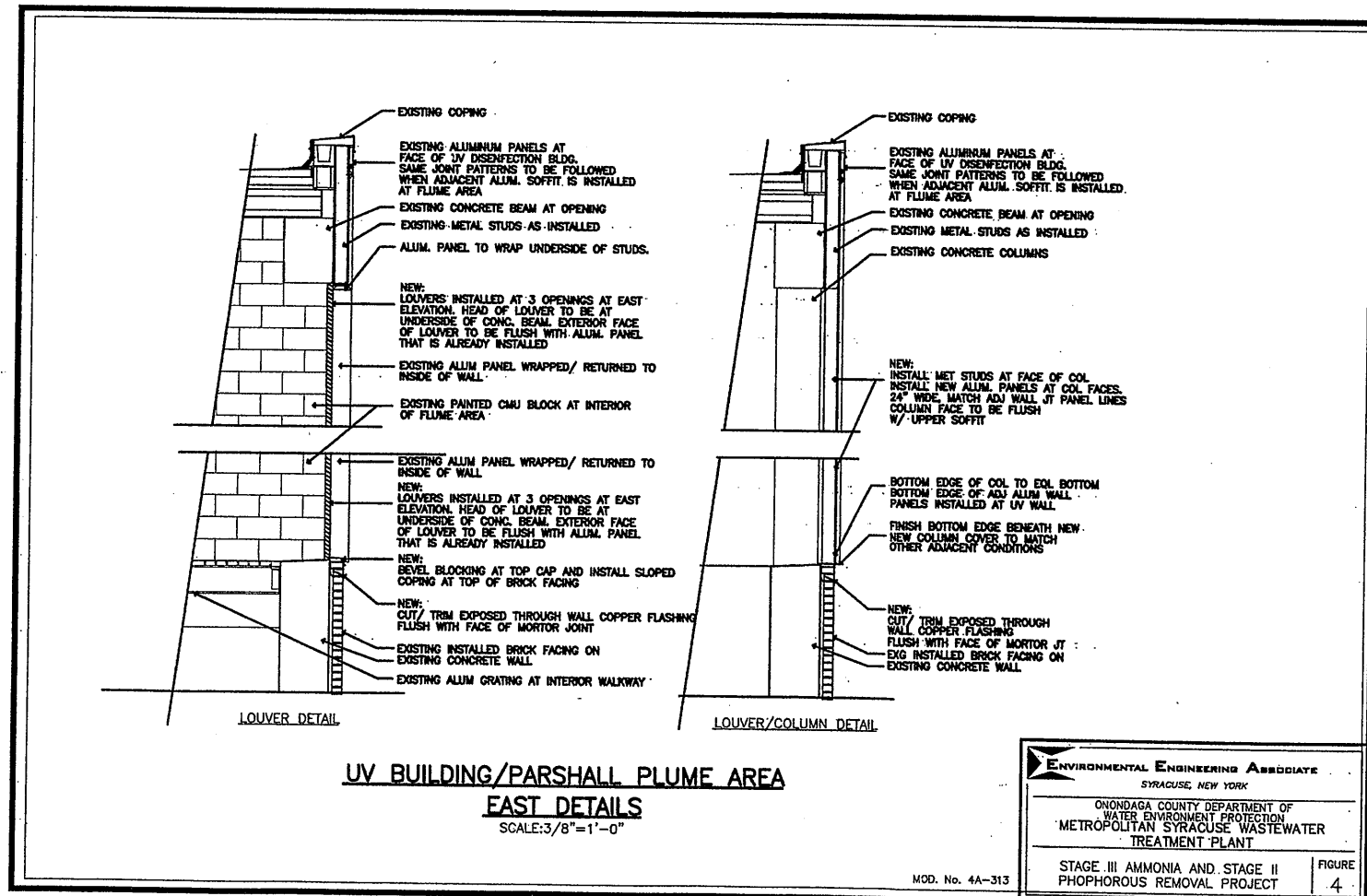
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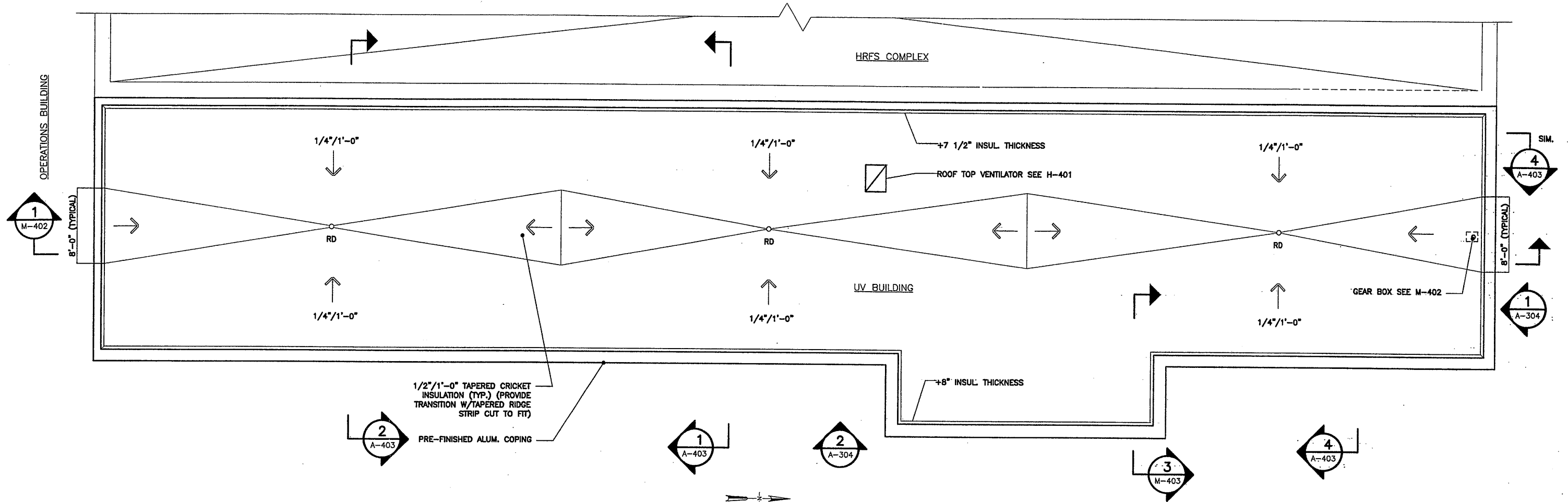
File Number: 006.59
 Date: APRIL, 2001
 A-401



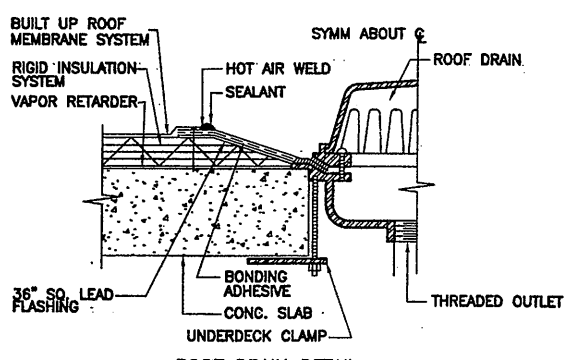
RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12-1-05 PER: TWS

REF. SHEET A-401



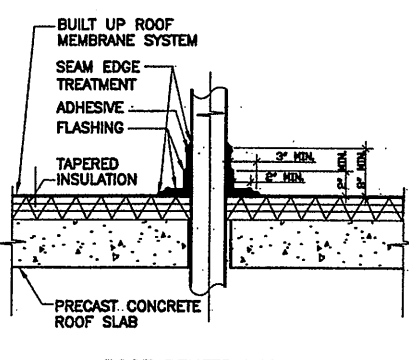


ROOF PLAN
SCALE: 3/16" = 1'-0"

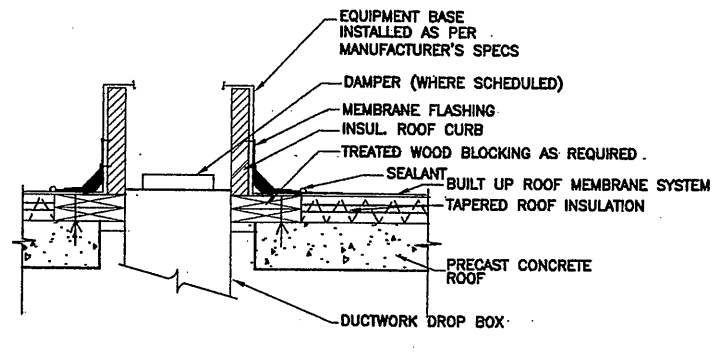


ROOF DRAIN DETAIL
SCALE = 1-1/2" = 1'-0"

NOTE:
DRAIN PIPES AND LEADERS NOT SHOWN,
SEE MECHANICAL DWGS.



ROOF PENETRATION DETAIL
SCALE = 3/4" = 1'-0"

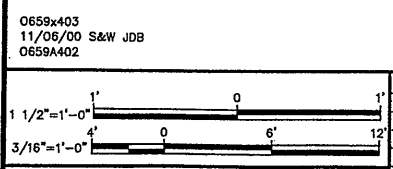


TYPICAL ROOF CURB DETAIL
SCALE = 3/4" = 1'-0"

NOTE:
COORDINATE ROOF OPENING SIZES W/ STRUCTURAL

RECORD DRAWING
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0	4/20/01	ISSUED FOR APPROVAL	TWS
1		AS BID	TWS
2	10/31/05	RECORD DRAWING	TWS

In charge of: TWS
Designed by: BDM
Drawn by: GC
Checked by: BDM

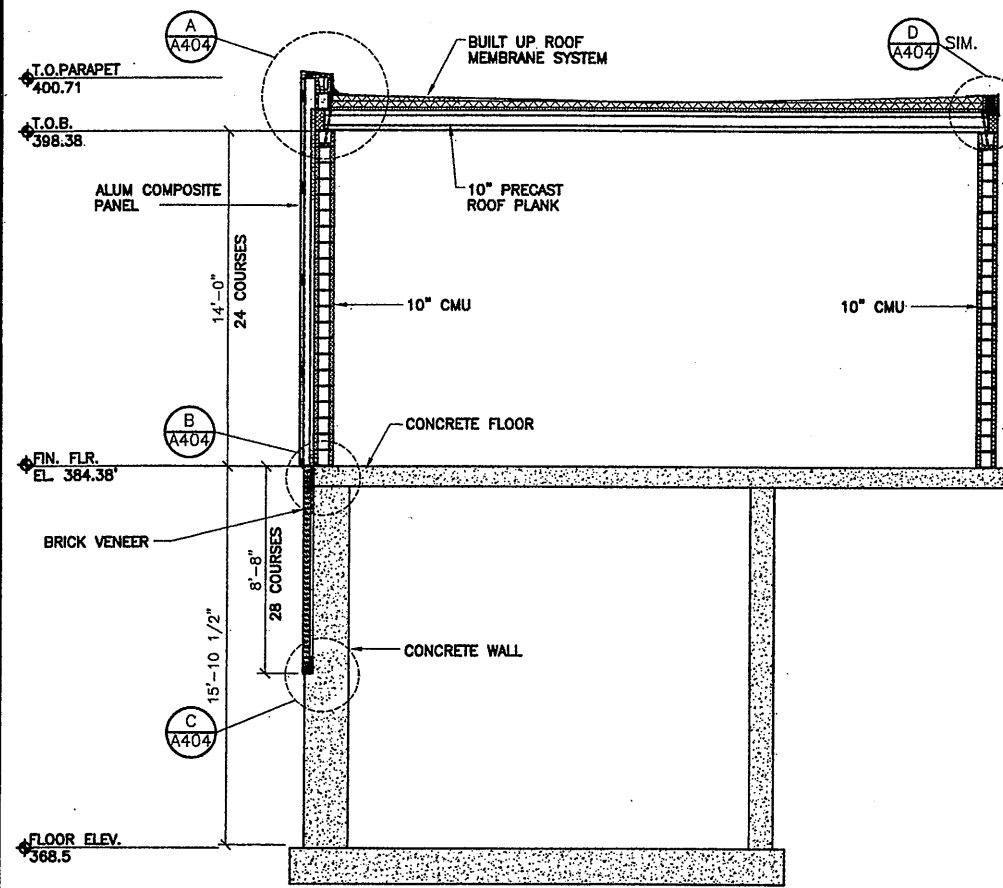
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
UV DISINFECTION

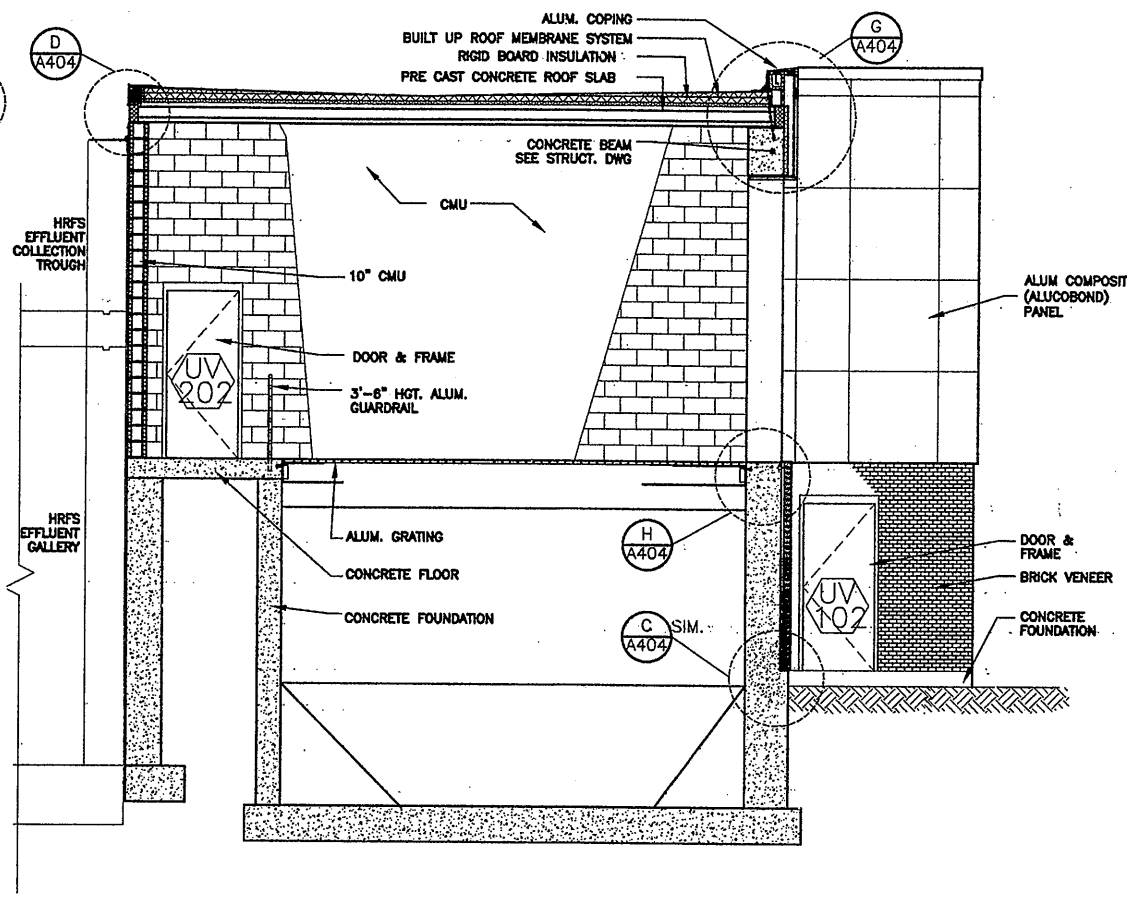


File Number 00659	A-402
Date APRIL 2001	

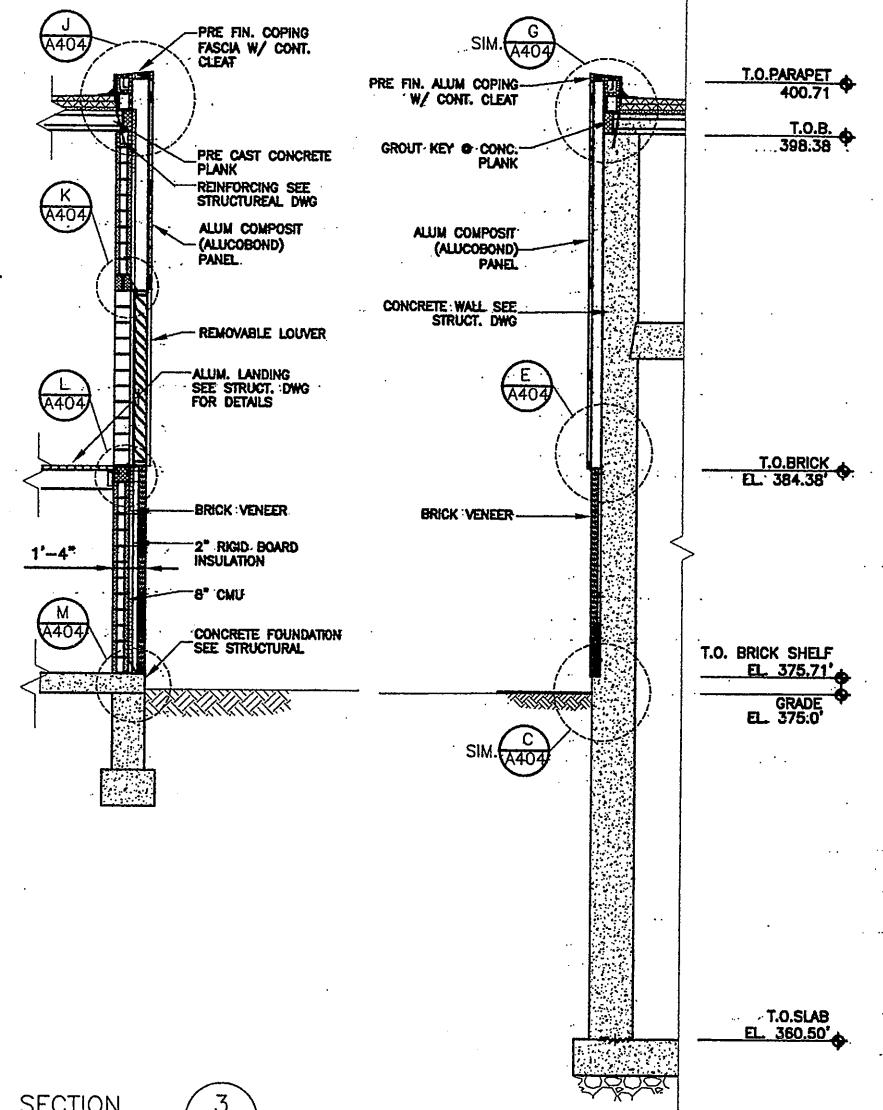
ROOF PLAN & DETAILS
ARCHITECTURAL



SECTION 1
SCALE: 1/4"=1'-0"
A-401



SECTION 2
SCALE: 1/4"=1'-0"
A-401



SECTION 3
SCALE: 1/4"=1'-0"
A-401

SECTION 4
SCALE: 1/4"=1'-0"
A-401

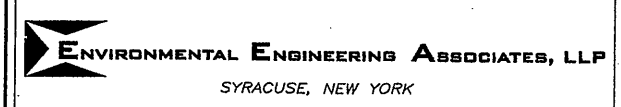
LAYER: ON=*, OFF=*REF*
07/17/00 OBG JAS
EEA-VERT

RECORD DRAWING
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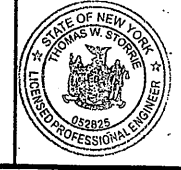
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2	10/31/05	RECORD DRAWING	TWS

In charge of: TWS
Designed by: BDM
Drawn by: GC
Checked by: BDM

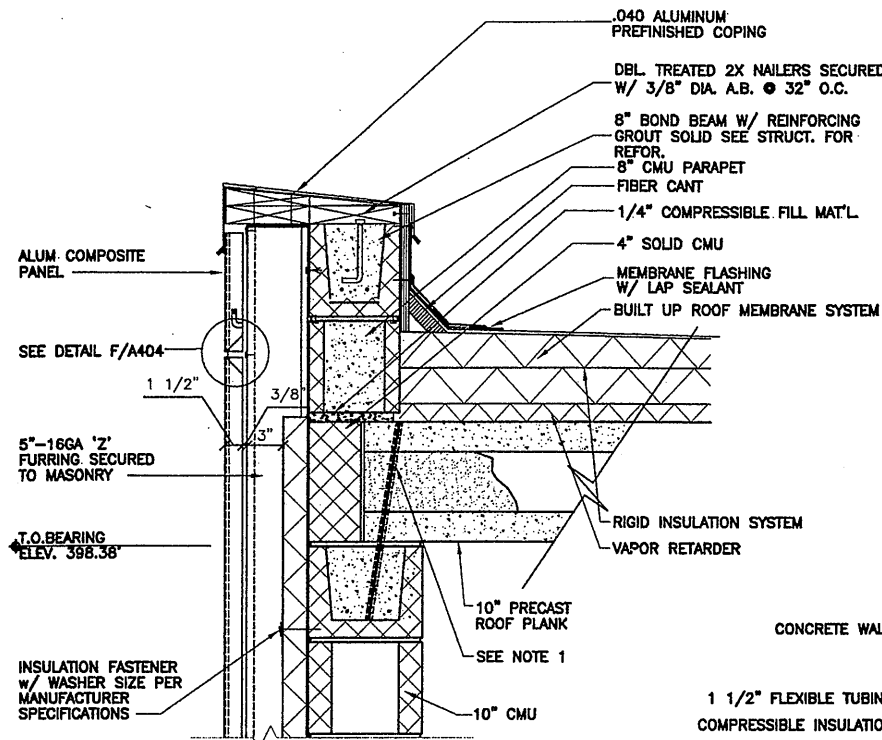


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
UV DISINFECTION

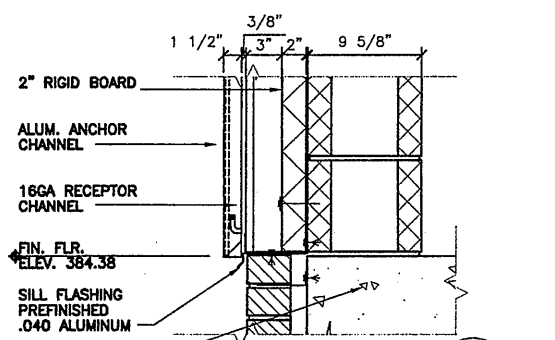


File Number 00659	Date APRIL 2001	A-403
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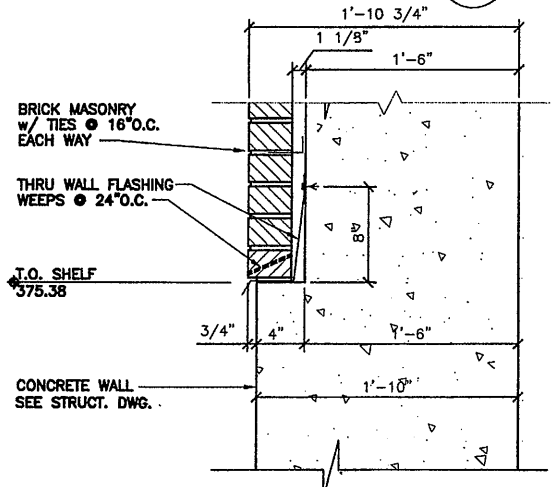
BUILDING SECTIONS
ARCHITECTURAL



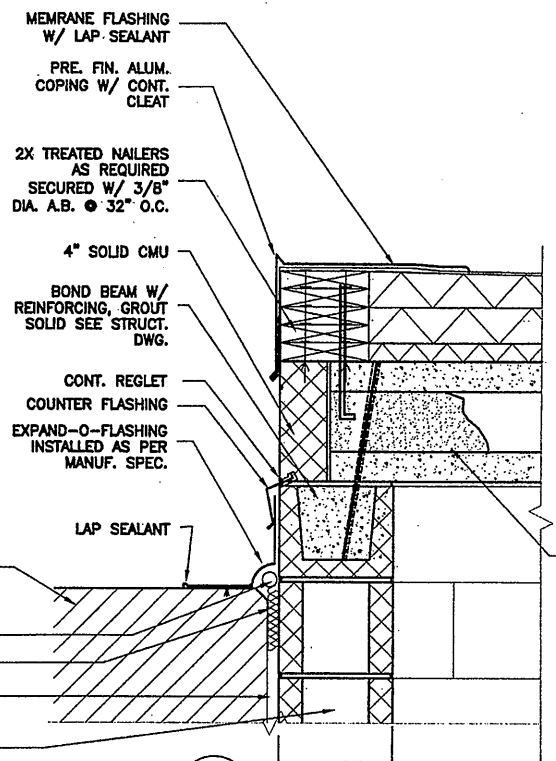
DETAIL A
SCALE: 1 1/2"=1'-0" A-403



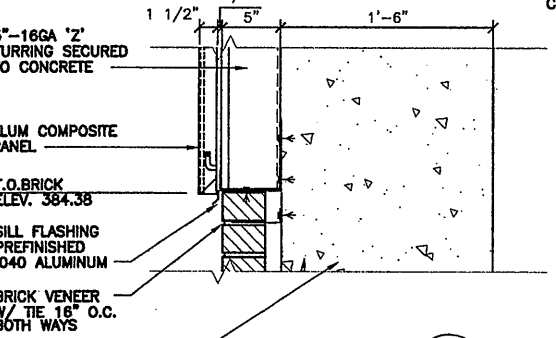
DETAIL B
SCALE: 1 1/2"=1'-0" A-403



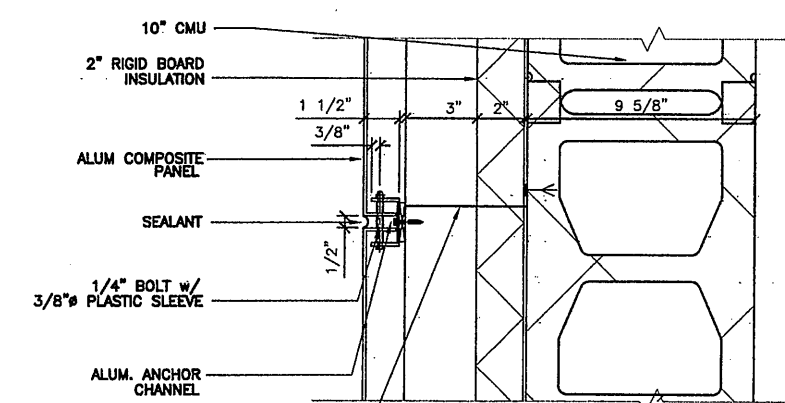
DETAIL C
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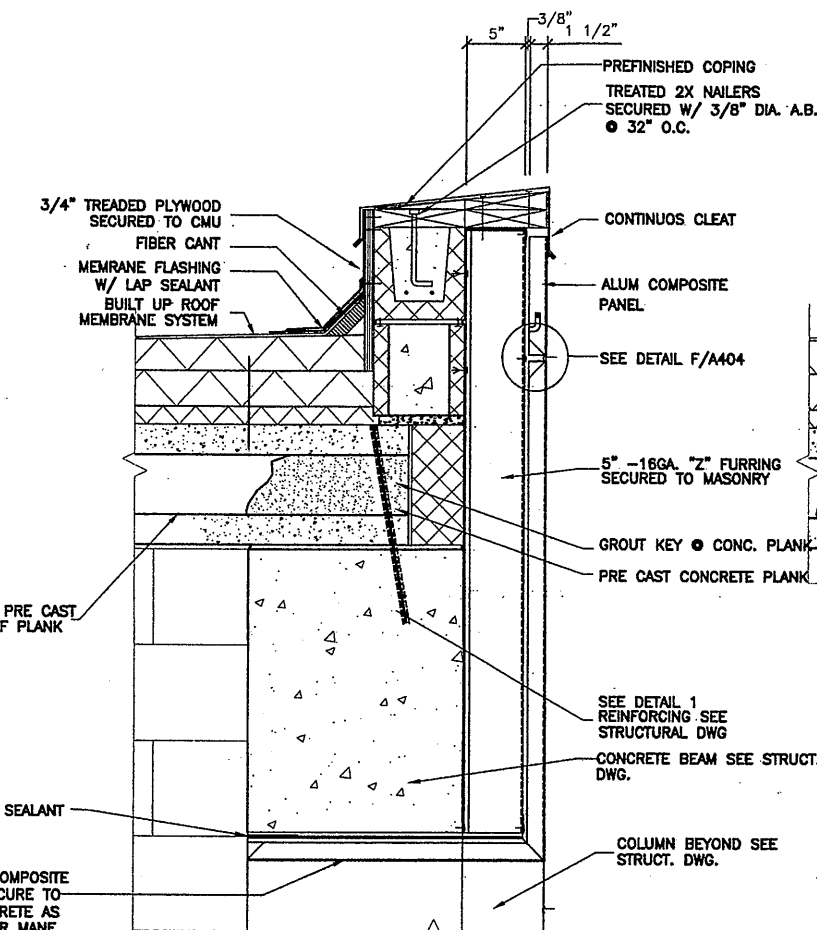
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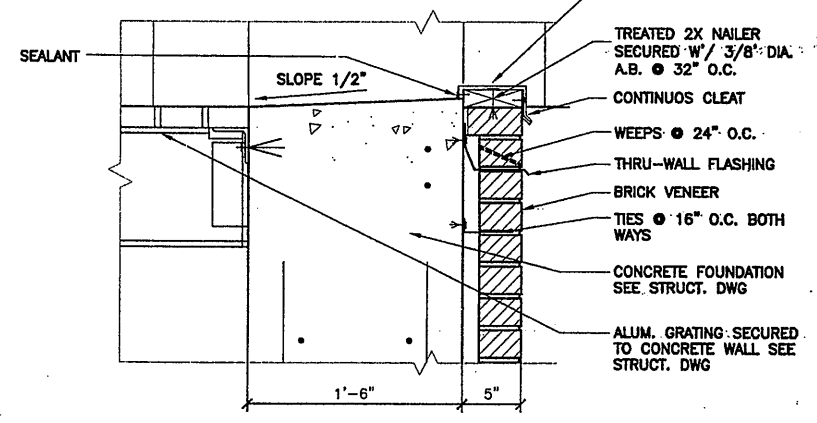
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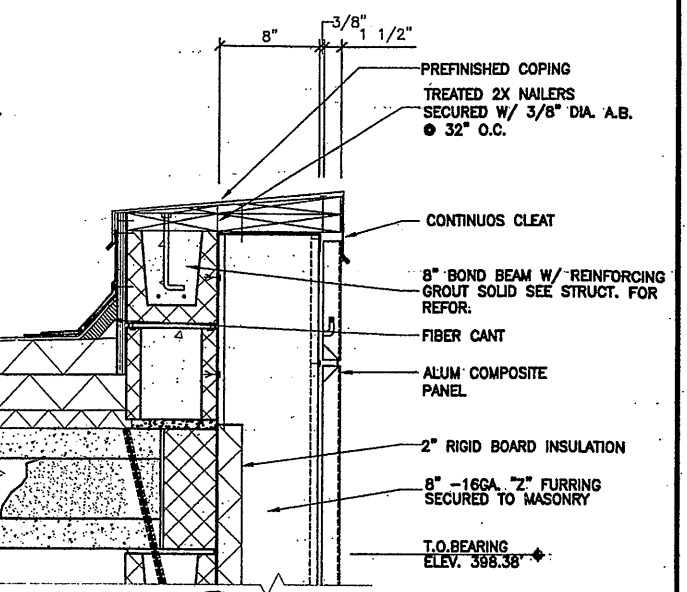
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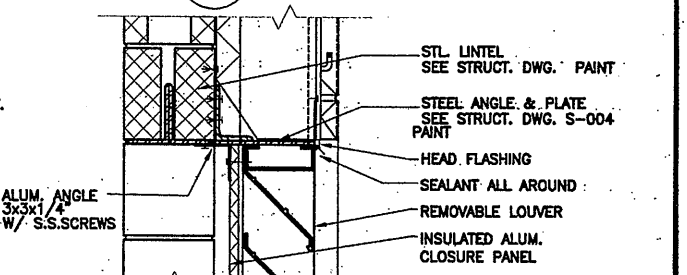
DETAIL G
SCALE: 1 1/2"=1'-0" A-403



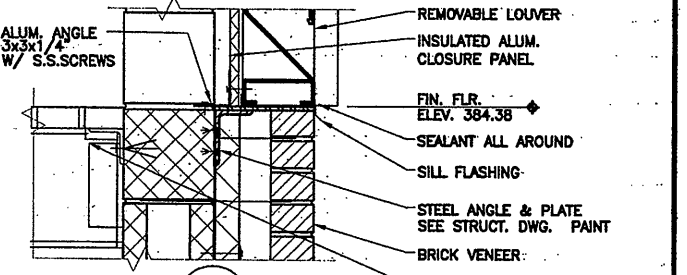
DETAIL H
SCALE: 1 1/2"=1'-0" A-403



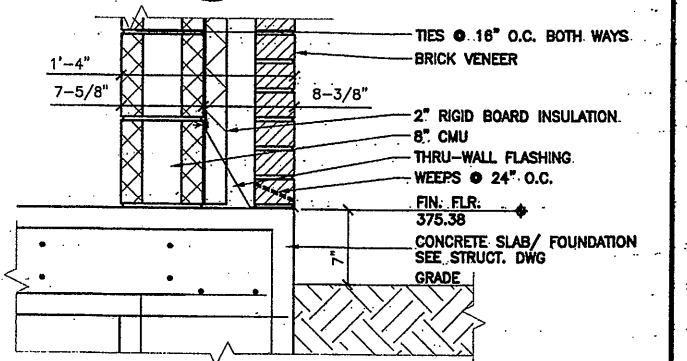
DETAIL J
SCALE: 1 1/2"=1'-0" A-403



DETAIL K
SCALE: 1 1/2"=1'-0" A-403



DETAIL L
SCALE: 1 1/2"=1'-0" A-403



DETAIL M
SCALE: 1 1/2"=1'-0" A-403

LAYER: ON="; OFF="REF"
07/17/00 OBG JAS
EEA-VERT

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL AS BID	TWS
1	10/31/05	RECORD DRAWING	TWS

In charge of TWS
Designed by BDM
Drawn by GC
Checked by BDM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
UV DISINFECTION

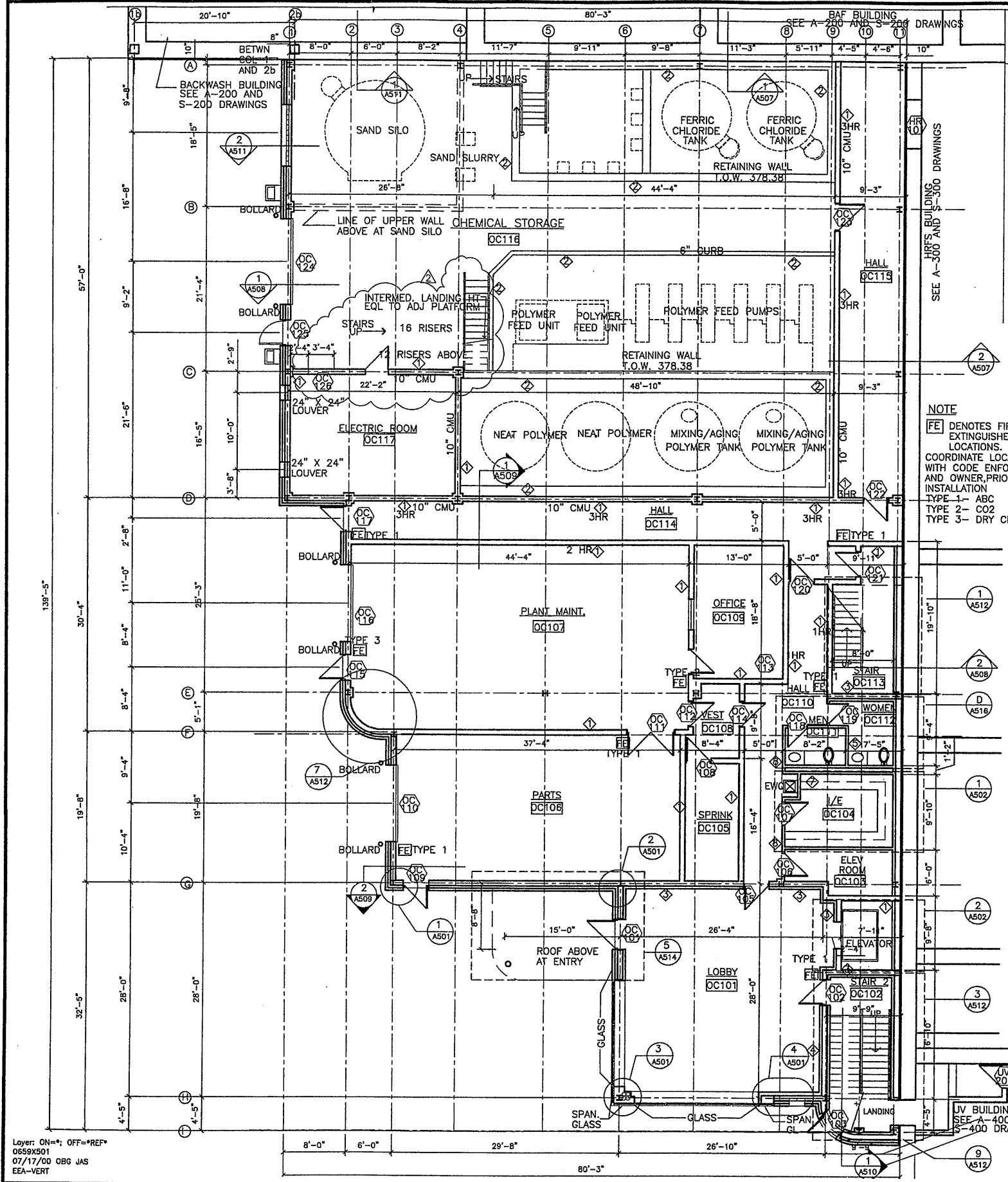


File Number: 00659
Date: APRIL 2001
A-404

RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12-1-05 PER: TWS

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BUILDING DETAILS
ARCHITECTURAL

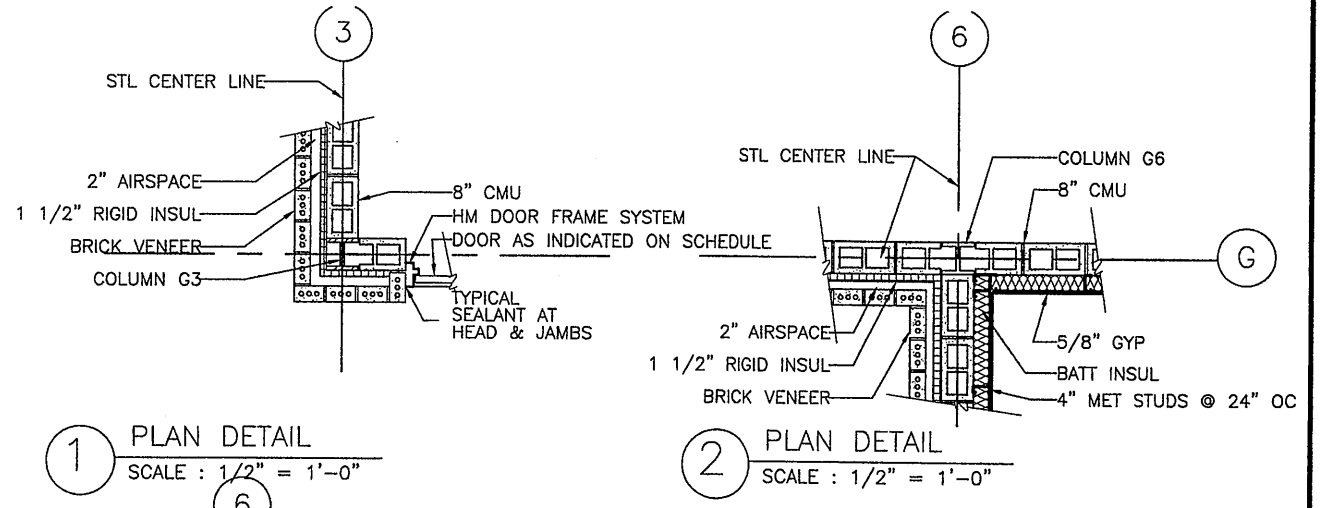


PARTITION LEGEND

- 1 CMU PARTITION- 8" CONC. BLOCK OR THICKNESS AS INDICATED ON THE PLANS, SECTION OR DETAILS FOR EACH LOCATION. FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. PROVIDE FIRE RATING AS INDICATED OR MIN. 1 HR WHERE INDICATED AS 3 HOUR WALL INSTALL 10" CMU FILL ALL CORES SOLID. PROVIDE 3 HOUR ENCLOSURE AT COLUMNS IN CMU WALL
- 2 LOW CMU RETAINING WALL/CURB. HEIGHTS ARE AS INDICATED ON THE PLANS. FINISH AT EACH SIDE AND TOP CAP AS INDICATED ON DETAILS OR ON THE ROOM FINISH SCHEDULE.
- 3 CMU PARTITION FURRED AT SIDE AS INDICATED ON THE PLAN WITH 25 GA. 3-5/8" METAL STUDS AT 16" ON CENTER. INSTALL 5/8" DRYWALL. EXTEND STUDS AND DRYWALL TO 12" ABOVE FINISHED CEILING HT INDICATED OR TO UNDERSIDE OF STRUCTURE ABOVE. FINISHED AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE
- 4 CMU PARTITION FURRED AT BOTH SIDES AS INDICATED ON THE PLAN WITH 25 GA. 3-5/8" METAL STUDS AT 16" ON CENTER. INSTALL 5/8" DRYWALL. EXTEND STUDS AND DRYWALL TO 12" ABOVE FINISHED CEILING HT INDICATED OR TO UNDERSIDE OF STRUCTURE ABOVE. FINISHED AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE
- 5 METAL STUD PARTITION. 3-5/8" STEEL STUDS AT 16" ON CENTER (25 GA) WITH 5/8" DRYWALL AT EACH SIDE. EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND DRYWALL TO A MINIMUM OF 12" ABOVE FINISHED CEILING HT. FINISH AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE.
- 6 METAL STUD PARTITION. 3-5/8" STEEL STUDS AT 16" ON CENTER (25 GA) WITH 5/8" TYPE "X" GWB AT EACH SIDE. EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND DRYWALL TO UNDERSIDE OF STRUCTURE ABOVE. FINISH AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. INSTALL 2 LAYERS 5/8" DRYWALL AT EACH SIDE OF STUD WALL
- 7 DOUBLE METAL STUD PARTITION AS PLUMBING/ MECH CHASE EACH WALL TO BE 3-5/8" METAL STUDS (25 GA) AT 16" ON CENTER. EXTEND STUDS TO THE UNDERSIDE OF STRUCTURE ABOVE. INSTALL 5/8" DRYWALL AT EACH SIDE. EXTEND DRYWALL TO 12" ABOVE FINISHED CEILING HT. TYPICAL CLEAR WIDTH BETWEEN STUD WALL IS 12" UNLESS NOTED OTHERWISE. INSTALL WATER RESISTANT DRYWALL AT SHOWER LOCATIONS. FINISH EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE
- 8 METAL STUD PARTITION. 3-5/8" STEEL STUDS AT 16" ON CENTER (25 GA) WITH 5/8" TYPE "X" GWB AT EACH SIDE. EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND DRYWALL TO UNDERSIDE OF STRUCTURE ABOVE. FINISH AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. INSTALL 2 LAYERS 5/8" DRYWALL AT EACH SIDE OF STUD WALL
- 9 METAL STUD PARTITION. 3-5/8" STEEL STUDS AT 16" ON CENTER (25 GA) WITH 5/8" TYPE "X" GWB AT EACH SIDE. EXTEND STUDS TO UNDERSIDE OF STRUCTURE ABOVE. EXTEND DRYWALL TO A MINIMUM OF 12" ABOVE FINISHED CEILING HT. FINISH AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. INSTALL WATER RESISTANT DRYWALL AT SHOWER SIDE. INSTALL WATER RESISTANT DRYWALL AT CEILINGS OF ALL SPACES TO RECEIVE WATER RESIST. GWB AT WALLS

NOTE
 FE DENOTES FIRE EXTINGUISHER LOCATIONS.
 COORDINATE LOCATIONS WITH CODE ENFORCEMENT AND OWNER, PRIOR TO INSTALLATION.
 TYPE 1- ABC
 TYPE 2- CO2
 TYPE 3- DRY CHEM

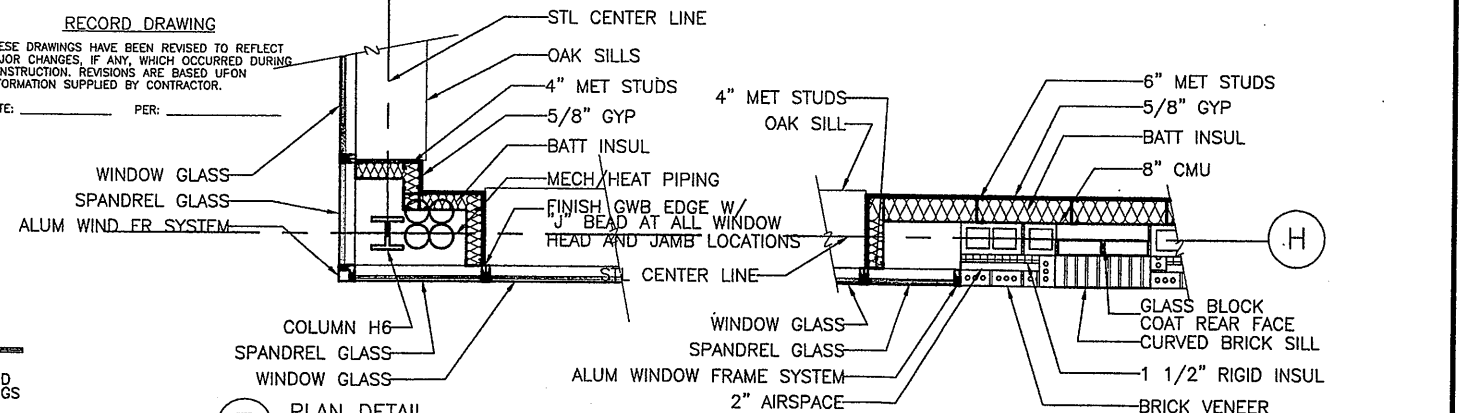
THE REINFORCED CONTAINMENT WALL ARE SHOWN ON STRUCTURAL DWGS. S-501 AND S-507.



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

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

RECORD DRAWING
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 DATE: _____ PER: _____



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

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

Layer: ON=; OFF=REF
 0659X501
 07/17/00 OBG JAS
 EEA-VERT

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	3/22/02	REVISED FOR MODIFICATION 4A-004	SAW
3	10/31/05	RECORD DRAWING	TWS

In charge of: SAW
 Designed by: SAW
 Drawn by: SAW
 Checked by: SAW

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

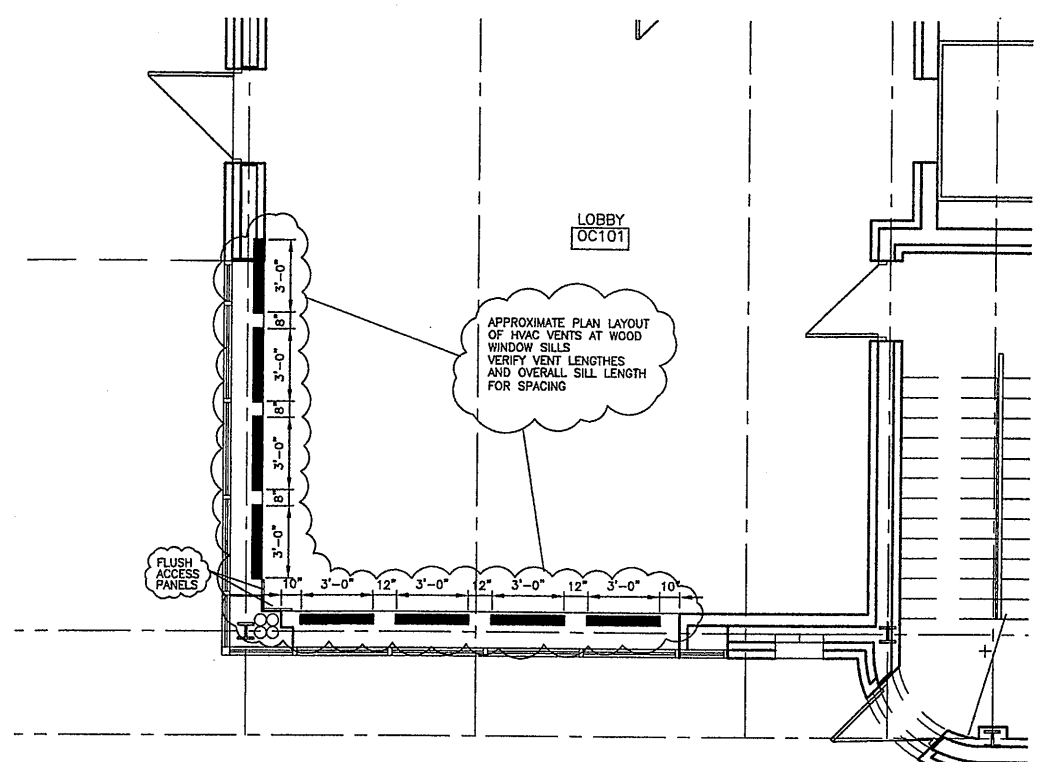
GROUP 1 DESIGN
 SHELIA WEED ARCHITECT
 317 SOUTH COLLINGWOOD AVE.
 SYRACUSE, NEW YORK 13206
 315-434-1844 / FAX 434-1845

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**OPERATIONS CENTER AND CHEMICAL BUILDING-C
 FIRST FLOOR PLAN**
 ARCHITECTURAL

File Number: 00659
 Date: APRIL 2001
A-501

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



1 PARTIAL 1ST FLOOR PLAN/LOBBY-OC101
SCALE: 1/4"=1'-0"

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY DEPARTMENT OF
DRAINAGE AND SANITATION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

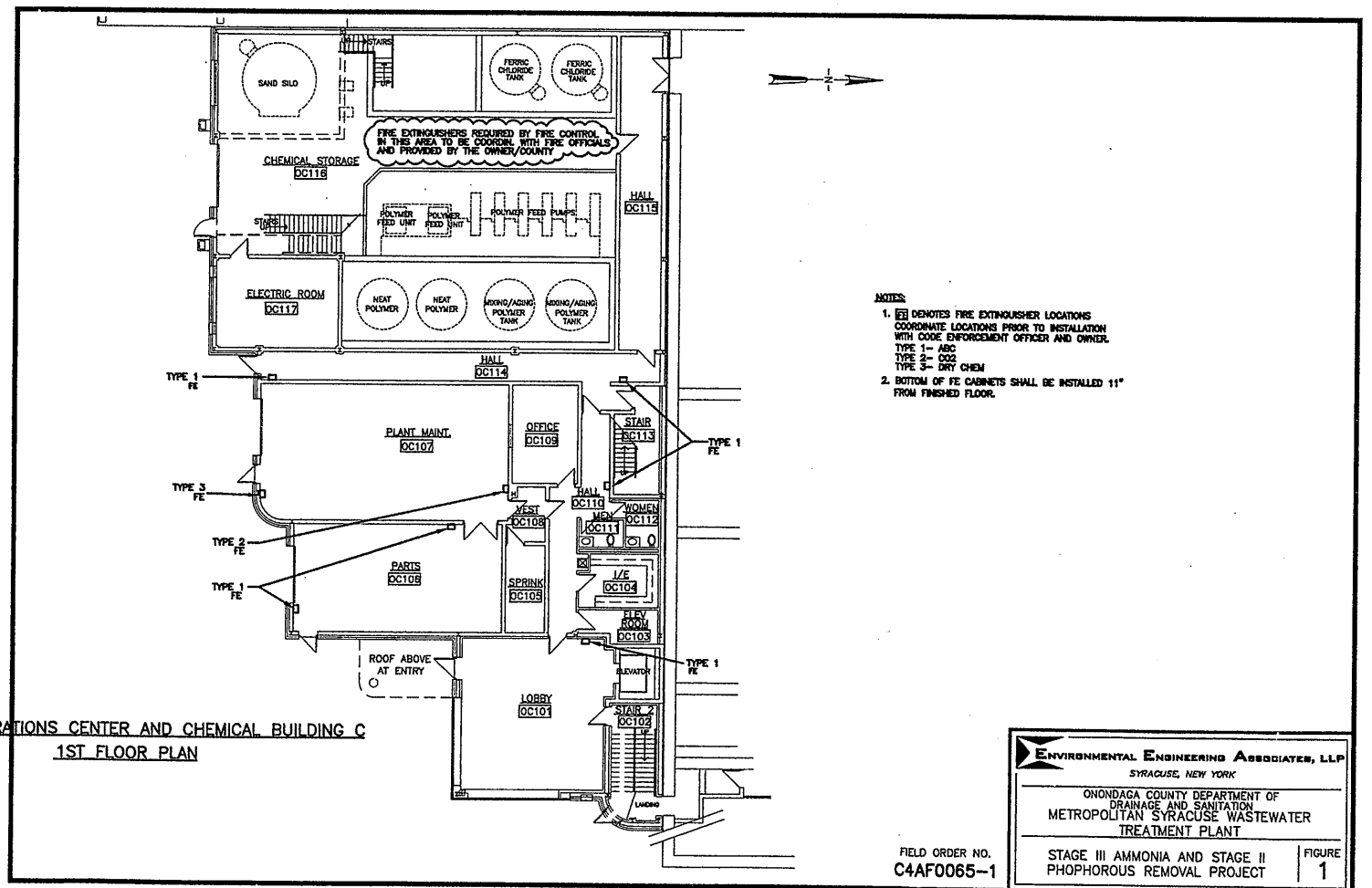
STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIGURE
3

MOD #4A-009

PL ECA-140P
SCHA MFD
10/24/09-01

OPERATIONS CENTER AND CHEMICAL BUILDING C
1ST FLOOR PLAN



- NOTES:
- FE DENOTES FIRE EXTINGUISHER LOCATIONS. COORDINATE LOCATIONS PRIOR TO INSTALLATION WITH CODE ENFORCEMENT OFFICER AND OWNER.
TYPE 1 - ABC
TYPE 2 - CO2
TYPE 3 - DRY CHEM
 - BOTTOM OF FE CABINETS SHALL BE INSTALLED 11" FROM FINISHED FLOOR.

RECORD DRAWING

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DATE: _____ PER: _____

REF. SHEET A-501

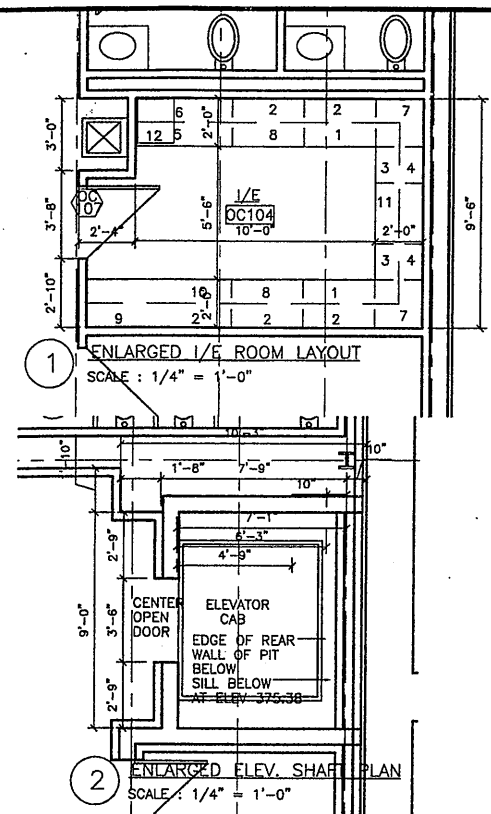
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY DEPARTMENT OF
DRAINAGE AND SANITATION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

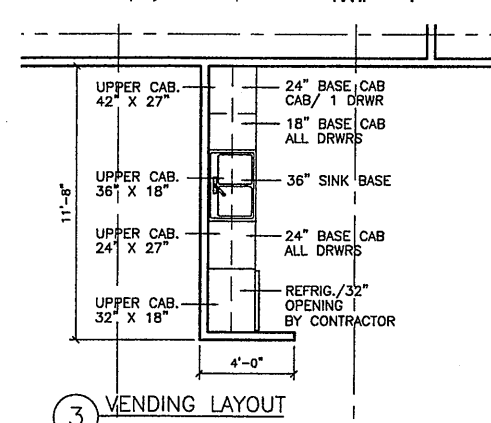
STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIELD ORDER NO.
C4AF0065-1

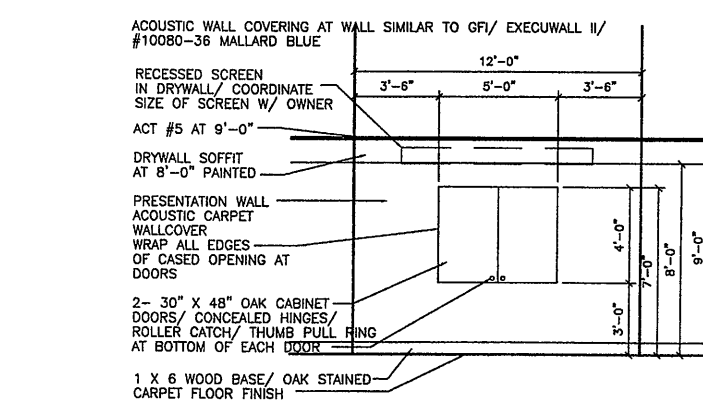
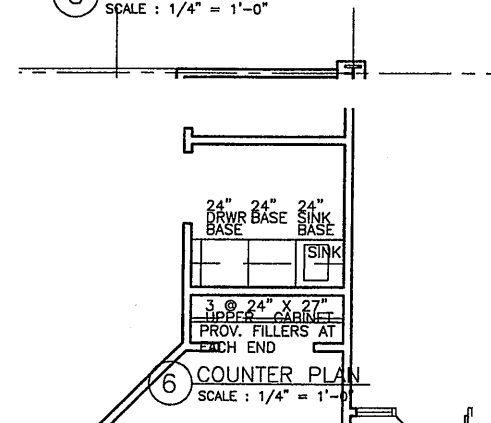
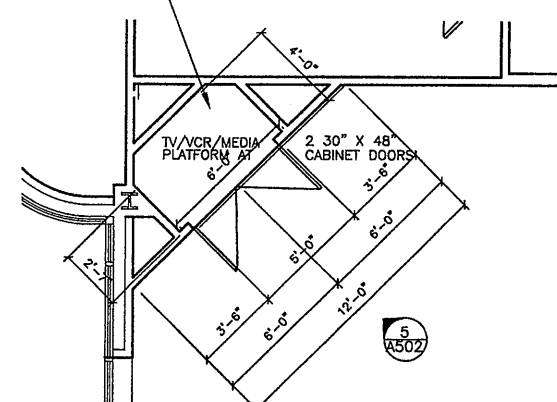
FIGURE
1



- ENLARGED 1/4\"/>**

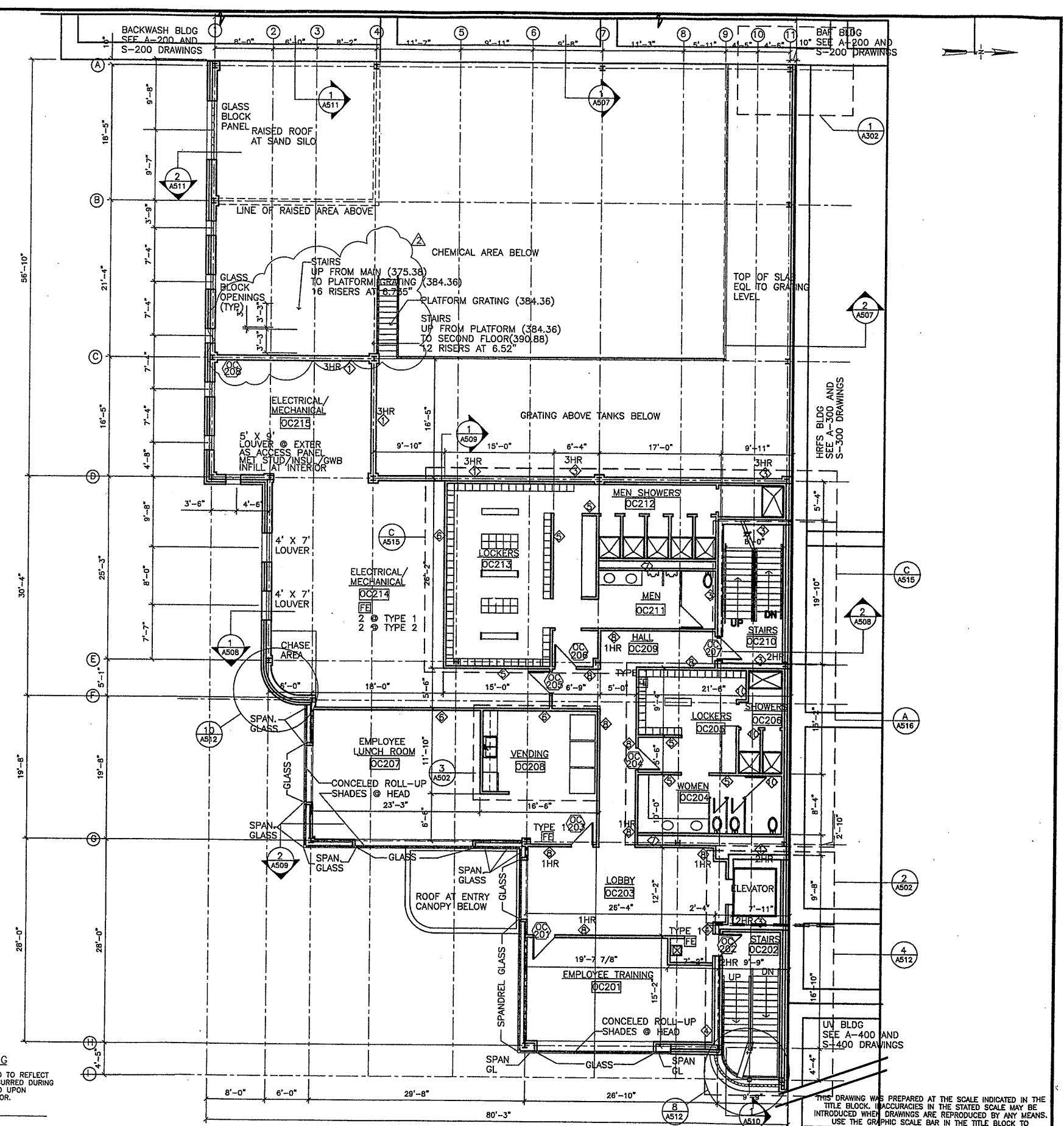


CONTRACT 4A SHALL UTILIZE AN OAK FACES PLYWOOD AT THE BASE AND PAINT THE SIDE WALL THE STANDARD GRAY WALL COLOR. WALLS OF THIS ENCLOSURE SHALL BE BUILT OUT OF STUDS AND GYPSUM WALL BOARD SUPPORT FOR THE PLATFORM SHALL BE SUFFICIENT TO HOLD A STANDARD 32\"/>

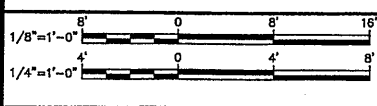


RECORD DRAWING

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DATE: _____ PER: _____



Layer: ON=*, OFF=*REF*
0659X501/ 0659X502/ 0659X503
07/17/00 OBG JAS
EEA-VERT



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	3/22/02	REVISED FOR MODIFICATION 4A-004	SAW
3	10/31/05	RECORD DRAWING	TWS

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

In charge of _____ SAW
Designed by _____ SAW
Drawn by _____ SAW
Checked by _____ SAW

ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP
SYRACUSE, NEW YORK

GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

OPERATIONS CENTER AND CHEMICAL BUILDING--C
SECOND FLOOR PLAN
ARCHITECTURAL

File Number
00659

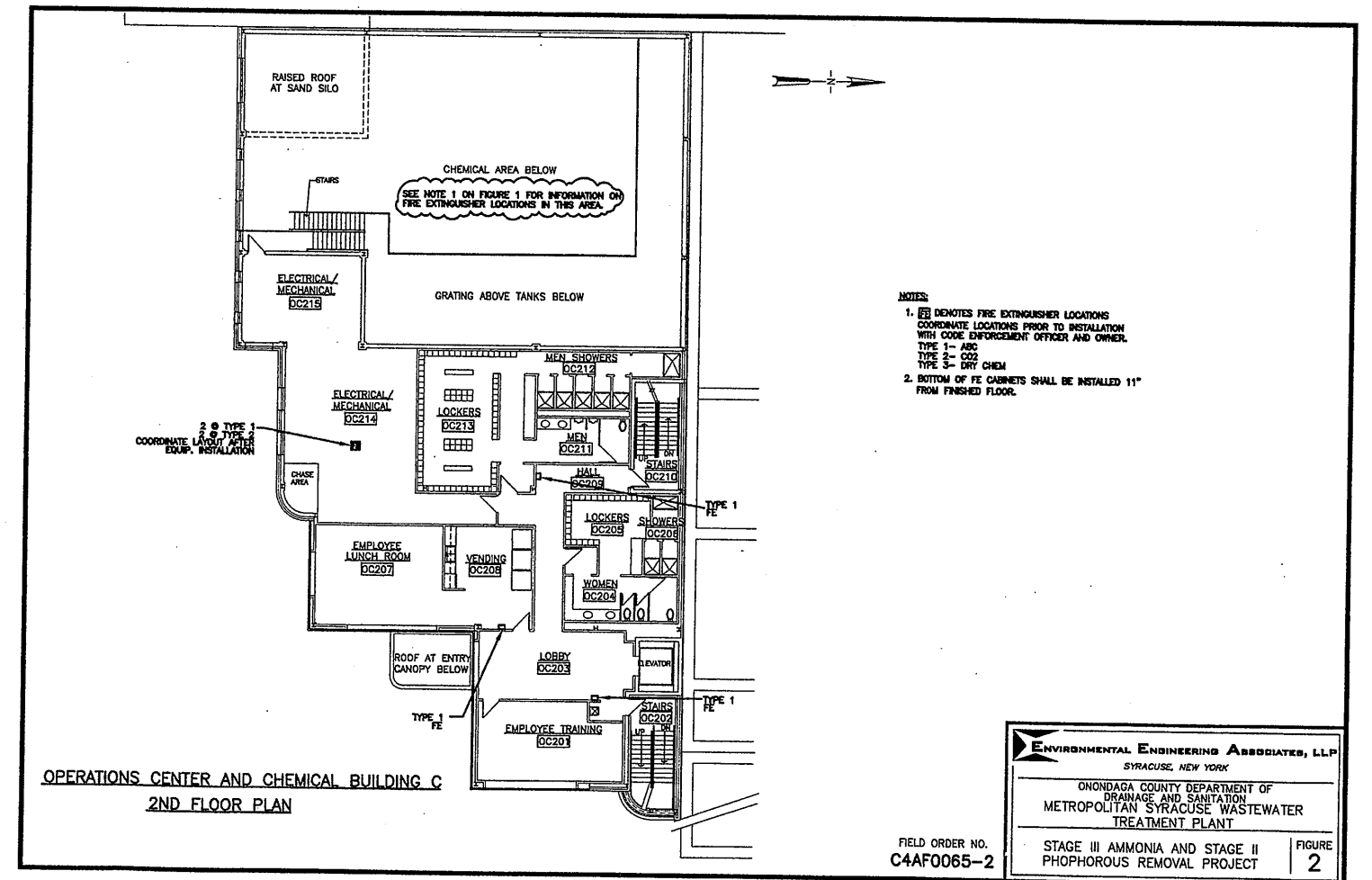
Date
APRIL 2001

A-502

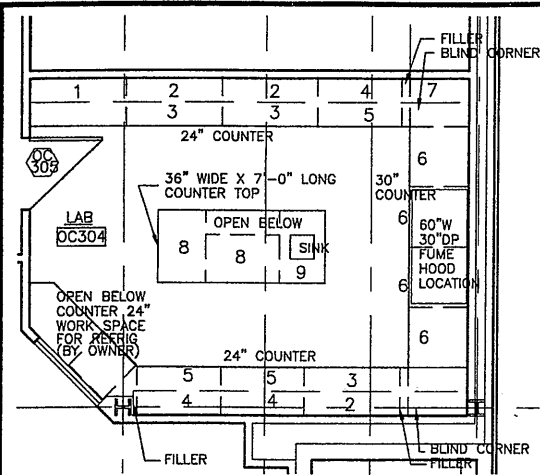
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 DATE: _____ PER: _____

REF. SHEET A-502

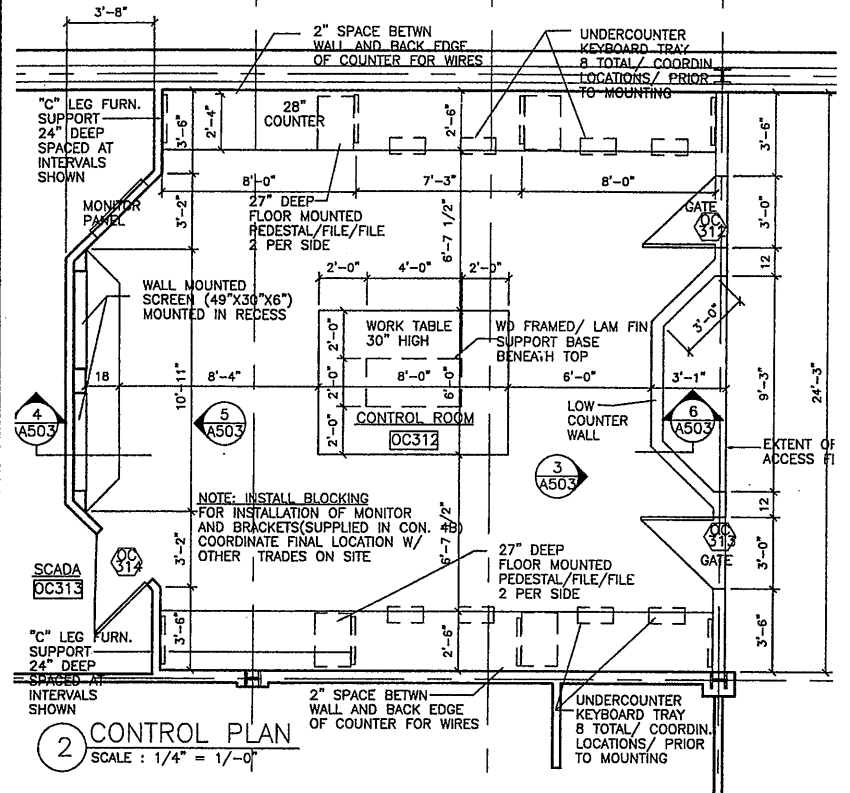


ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP SYRACUSE, NEW YORK	
ONONDAGA COUNTY DEPARTMENT OF DRAINAGE AND SANITATION METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT	
FIELD ORDER NO. C4AF0065-2	STAGE III AMMONIA AND STAGE II PHOPHOROUS REMOVAL PROJECT
	FIGURE 2

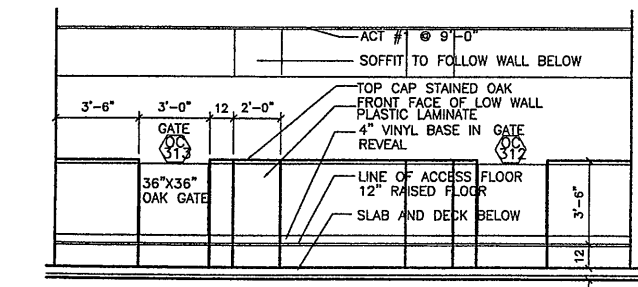


- ENLARGED LAB PLAN INFORMATION**
- ALL CABINET INFORMATION BASED ON FISHER HAMILTON—INSET STEEL DRAWERS AND CAB. DOORS— BLUE MIST (BM) / BODY AND CAB. GRAY SIERRA DOVE (G1) STANDARD DRWR SUSPENSION AND HINGES/ CONFIG #2 FOR PULL LAYOUT STANDARD DRAWER PULL STYLE/ NO LOCKS/ NO LABEL HOLDERS BLACK EPOXY RESIN WORKSURFACES
- 1- 48" FULL HT CABINET X 22" DEEP
5 ADJUST. SHELVES
SWING DOORS
MODEL# 806S8920
 - 2- 48" UPPER CABINET X 13" DEEP
2 ADJUST. SHELVES
SWING DOORS
MODEL# 706S8330
 - 3- 48" X 36" HIGH BASE CABINET X 24" DEEP
FULL TOP DRAWER AND SWING DOORS
MODEL# 346S6320
 - 4- 42" UPPER CABINET X 13" DEEP
2 ADJUST. SHELVES
SWING DOORS
MODEL# 706S7330
 - 5- 42" X 36" HIGH BASE CABINET X 24" DEEP
FULL TOP DRAWER AND SWING DOORS
MODEL# 346S7320
 - 6- 30" W X 36" HIGH BASE CABINET X 24" DEEP
FULL TOP DRAWER AND SWING DOORS
MODEL# 346S5320
 - 7- 30" UPPER CABINET X 13" DEEP
2 ADJUST. SHELVES
SWING DOORS
MODEL# 706S5330
 - 8- 36" W X 36" HIGH BASE CABINET X 24" DEEP
FULL TOP DRAWER AND SWING DOORS
MODEL# 346S6320
 - 9- 36" W X 36" HIGH SINK BASE X 24" DEEP
SWING DOORS
MODEL# 115S6320

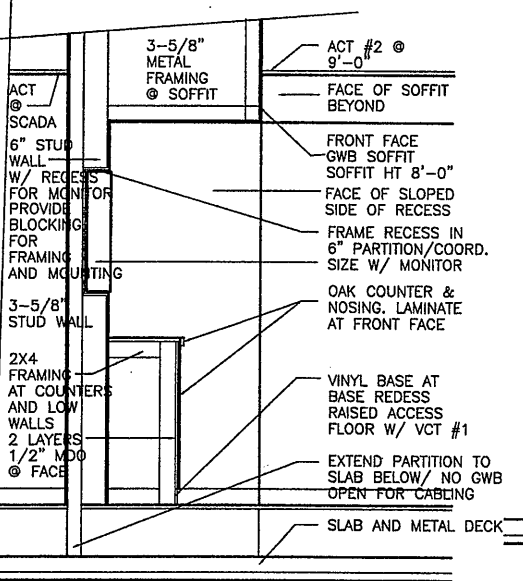
1 ENLARGED LAB PLAN
SCALE: 1/4" = 1'-0"



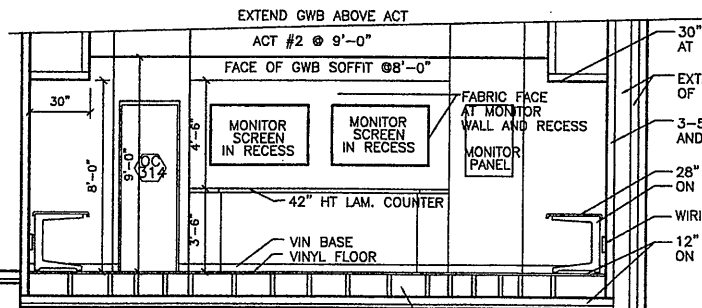
2 CONTROL PLAN
SCALE: 1/4" = 1'-0"



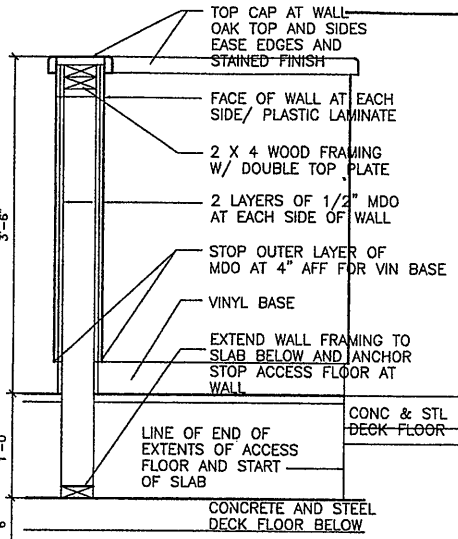
3 CONTROL ELEVATION
SCALE: 1/4" = 1'-0"



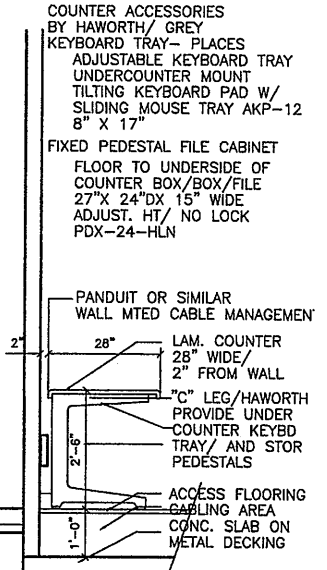
4 MONITOR RECESS SECTION
SCALE: 1/2" = 1'-0"



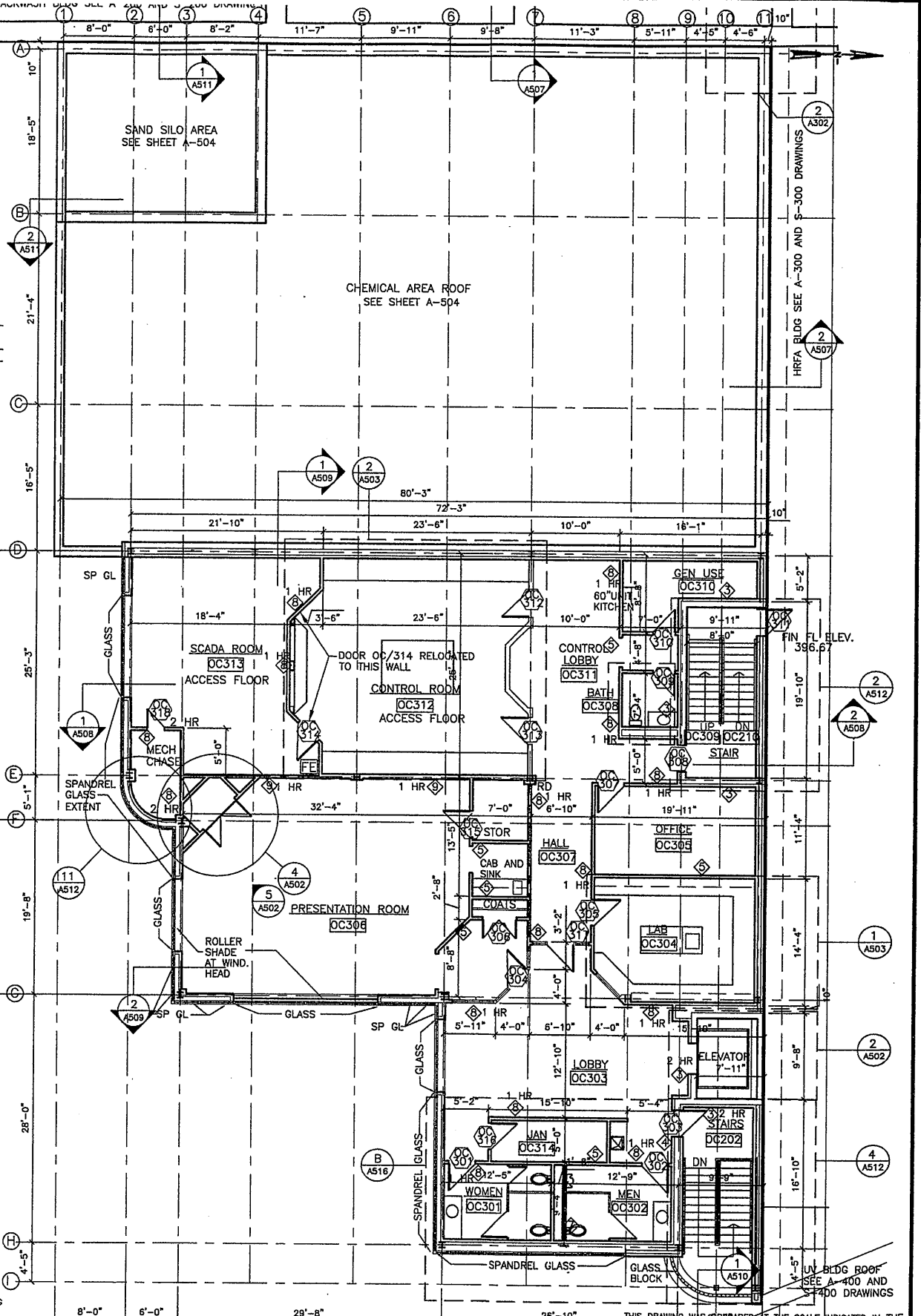
5 CONTROL ELEVATION
SCALE: 1/4" = 1'-0"



6 LOW WALL SECTION
SCALE: 1" = 1'-0"



3 COUNTER SECT
SCALE: 1/2" = 1'-0"



Layers: ON=; OFF=REF
0659X603
07/17/00 OBG JAS
EEA-VERT

1/8"=1'-0"	0	8	16
1/4"=1'-0"	0	4	8
1/2"=1'-0"	0	2	4

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	0/31/05	RECORD DRAWING	TWS

In charge of SAW
Designed by SAW
Drawn by SAW
Checked by SAW

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13205
315-434-1844 / FAX 434-1845

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
OPERATIONS CENTER AND CHEMICAL BUILDING-C
THIRD FLOOR PLAN
ARCHITECTURAL

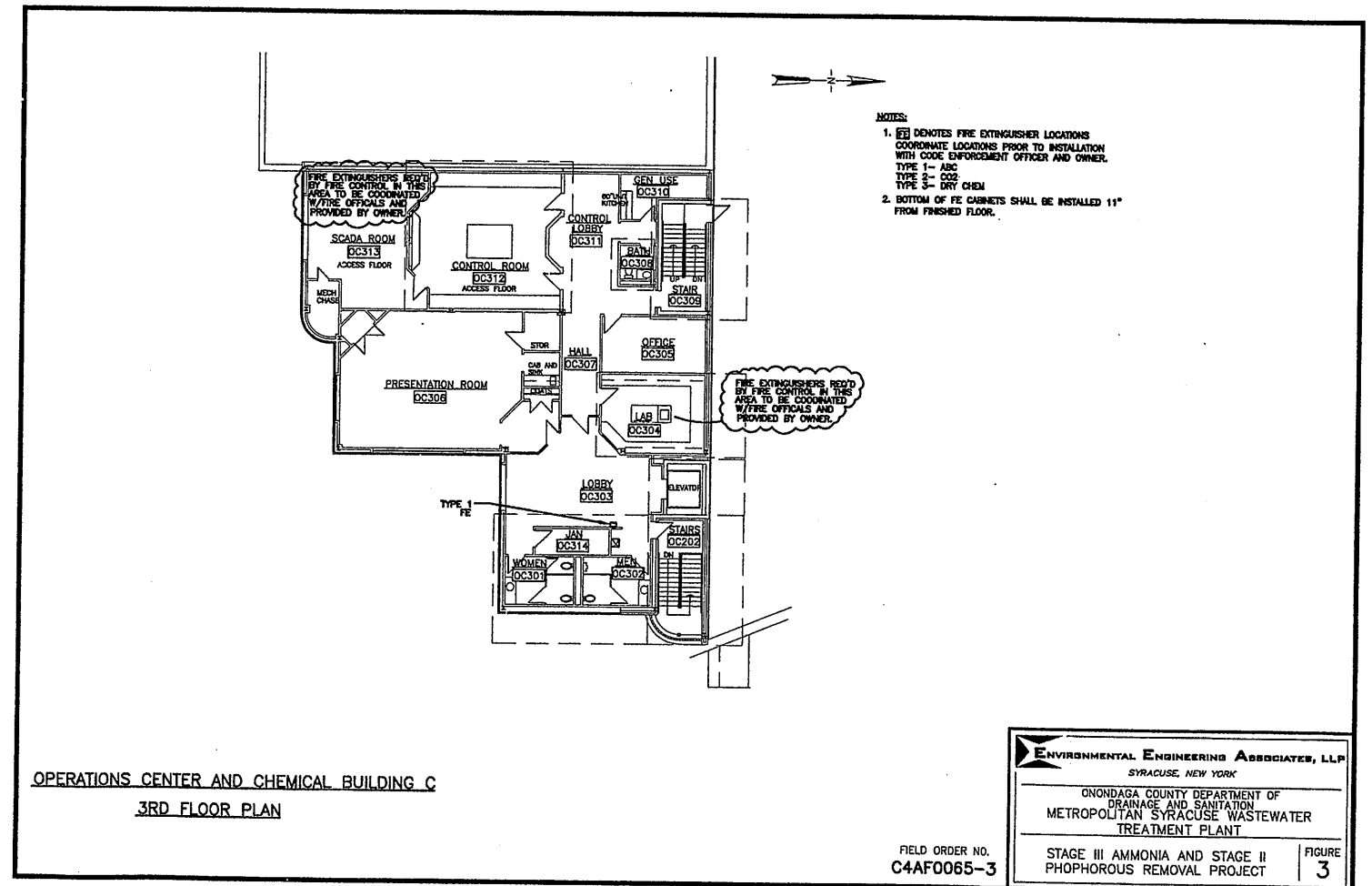
File Number
00659
Date
APRIL 2001
A-503

RECORD DRAWING
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DATE: _____ PER: _____

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 CONSTRUCTION. REVISIONS ARE BASED UPON
 INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: _____ PER: _____

REF. SHEET A-503

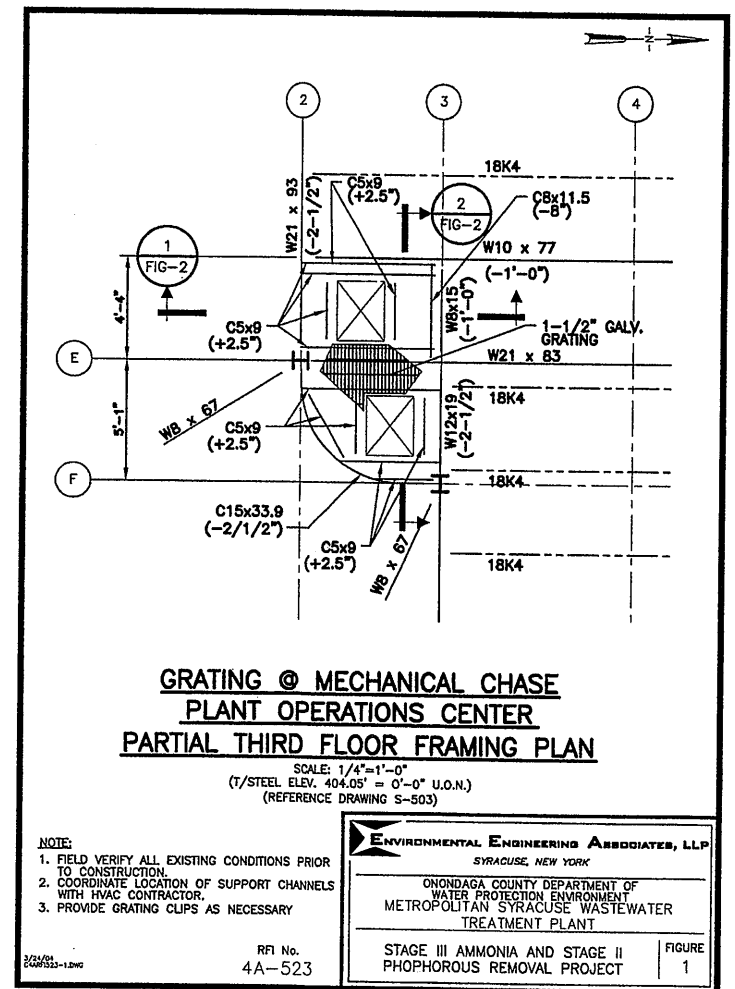
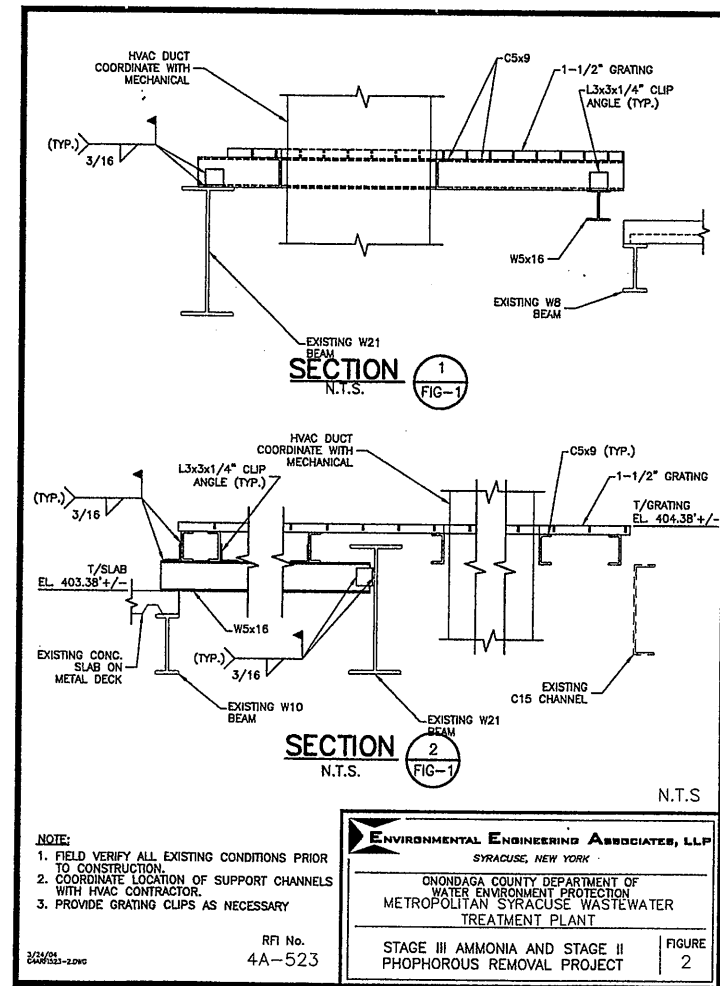


- NOTES:
- FE DENOTES FIRE EXTINGUISHER LOCATIONS. COORDINATE LOCATIONS PRIOR TO INSTALLATION WITH CODE ENFORCEMENT OFFICER AND OWNER.
 TYPE 1- ABC
 TYPE 2- CO2
 TYPE 3- DRY CHEM
 - BOTTOM OF FE CABINETS SHALL BE INSTALLED 11" FROM FINISHED FLOOR.

OPERATIONS CENTER AND CHEMICAL BUILDING C
 3RD FLOOR PLAN

FIELD ORDER NO.
 C4AF0065-3

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP SYRACUSE, NEW YORK	
ONONDAGA COUNTY DEPARTMENT OF DRAINAGE AND SANITATION METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT	
STAGE III AMMONIA AND STAGE II PHOSPHOROUS REMOVAL PROJECT	FIGURE 3



RECORD DRAWING

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DATE: 12-1-05 PER: TWS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY DEPARTMENT OF
WATER ENVIRONMENT PROTECTION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

RFI No.
4A-523

FIGURE
2

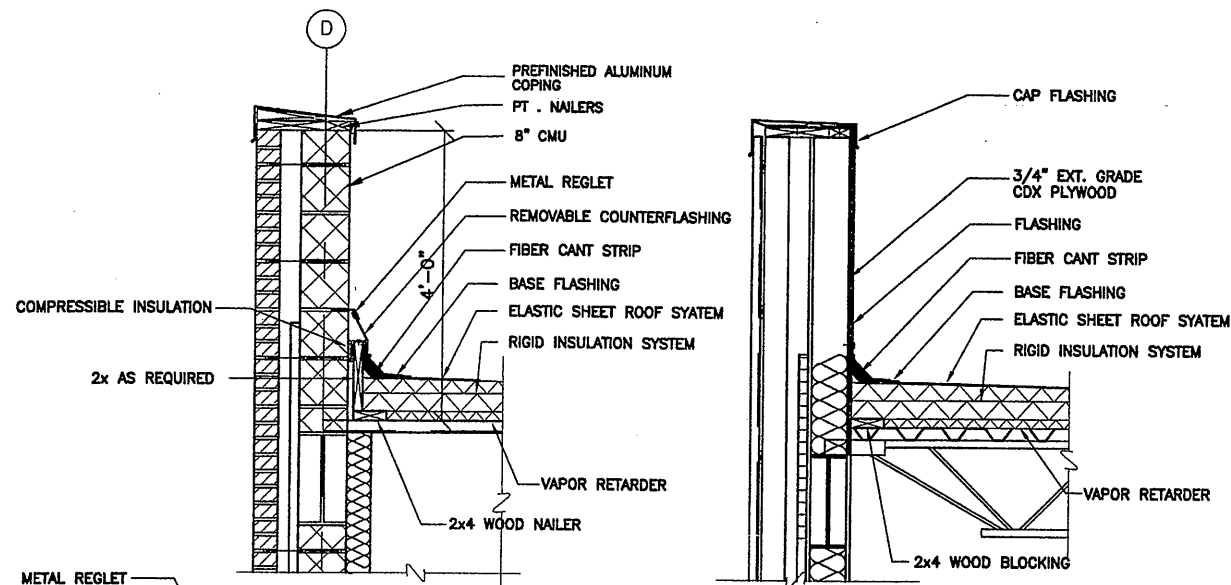
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SYRACUSE, NEW YORK

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WATER ENVIRONMENT PROTECTION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

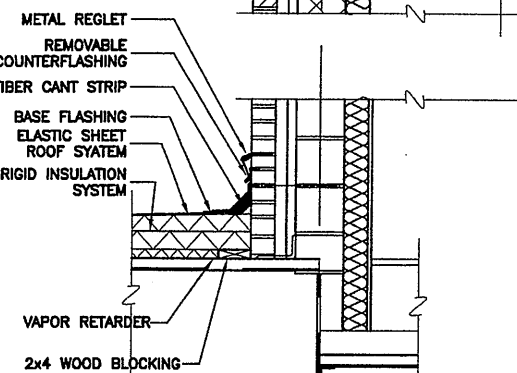
STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

RFI No.
4A-523

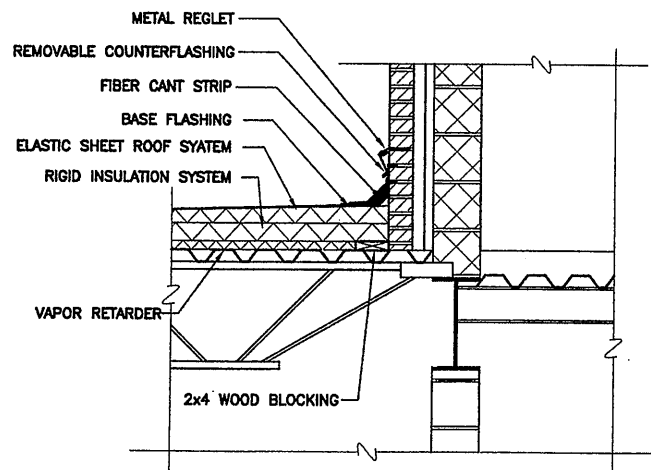
FIGURE
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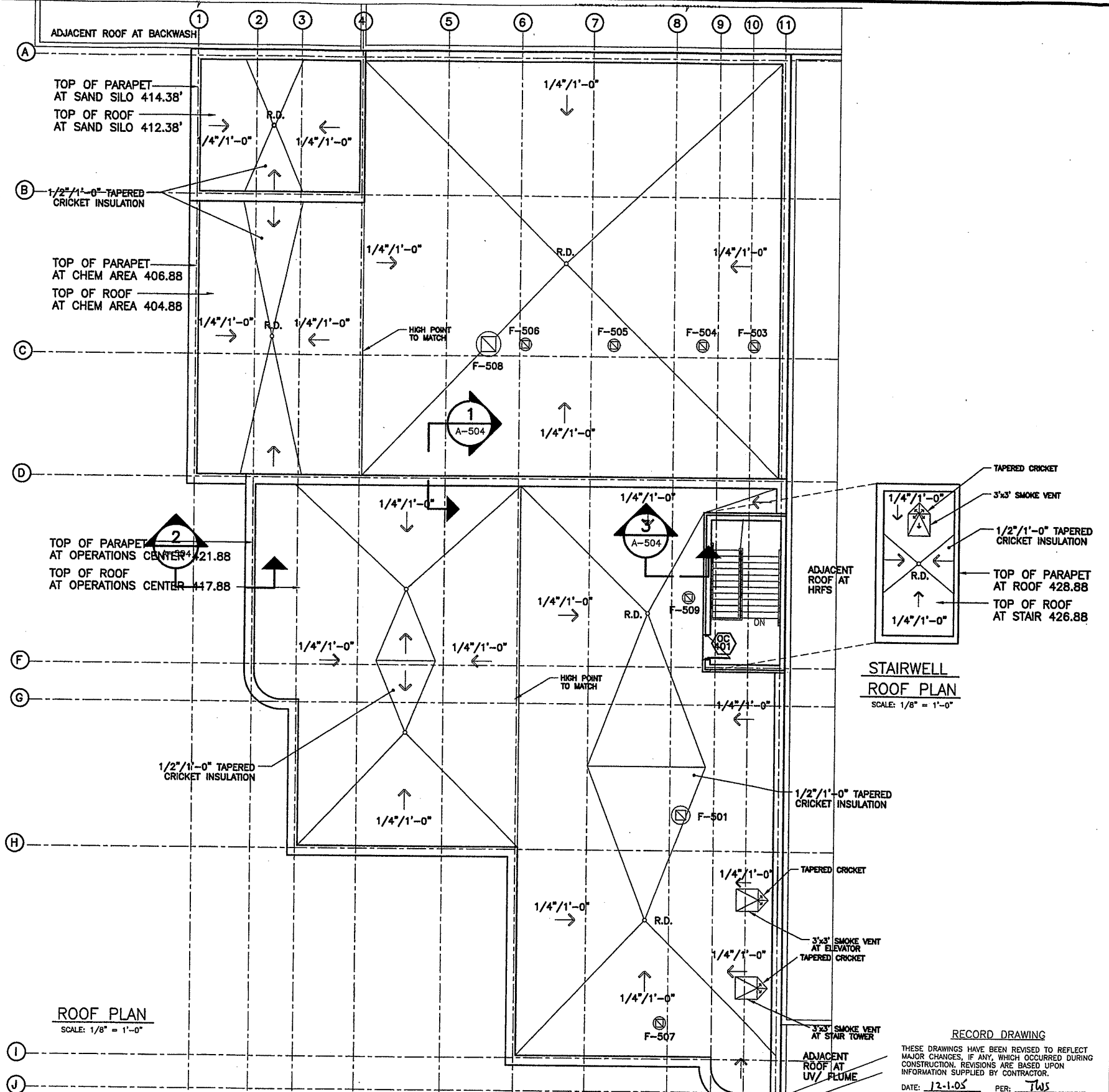
SECTION 2
SCALE: 3/4" = 1'-0" A-504



SECTION 1
SCALE: 3/4" = 1'-0" A-504



SECTION 3
SCALE: 3/4" = 1'-0" A-504

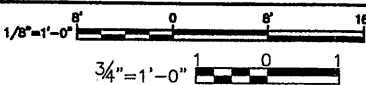


ROOF PLAN
SCALE: 1/8" = 1'-0"

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

Layer: ON=; OFF=REF
02/19/01 OBG RJB
EEA-VERT

SECTION 3
SCALE: 3/4" = 1'-0" A-504



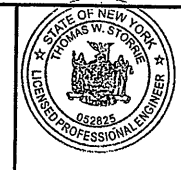
No.	Date	Revisions	Init
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2	10/31/05	RECORD DRAWING	TWS

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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

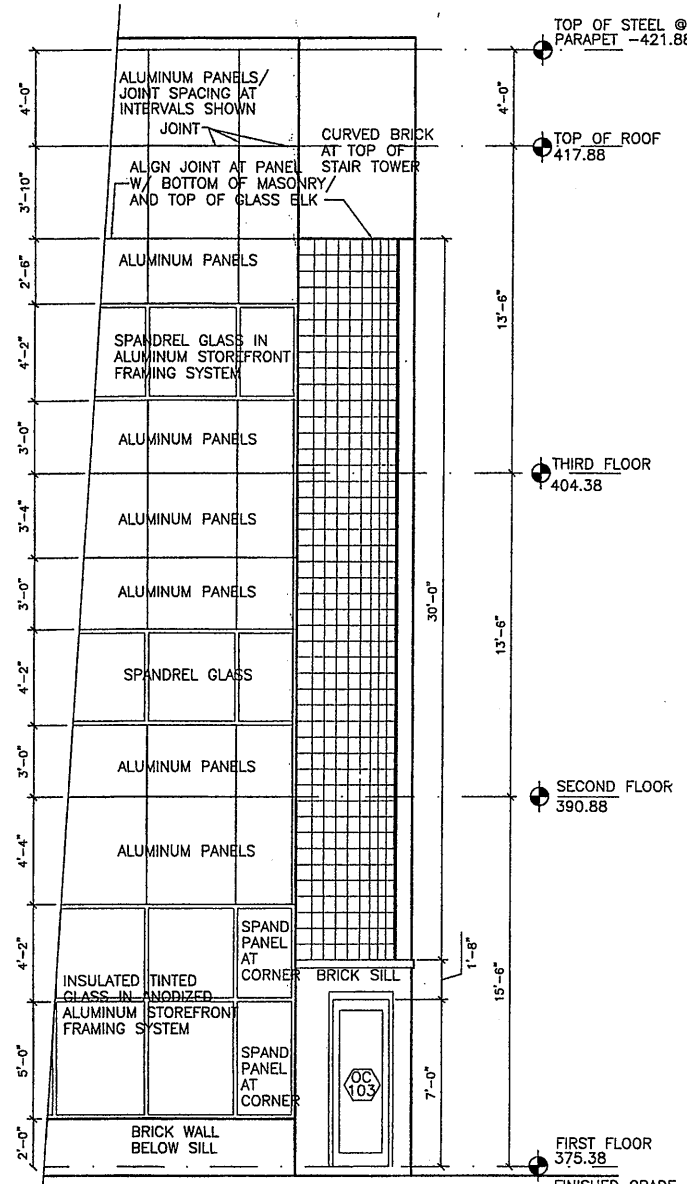
OPERATION CENTER
ROOF PLAN
ARCHITECTURAL



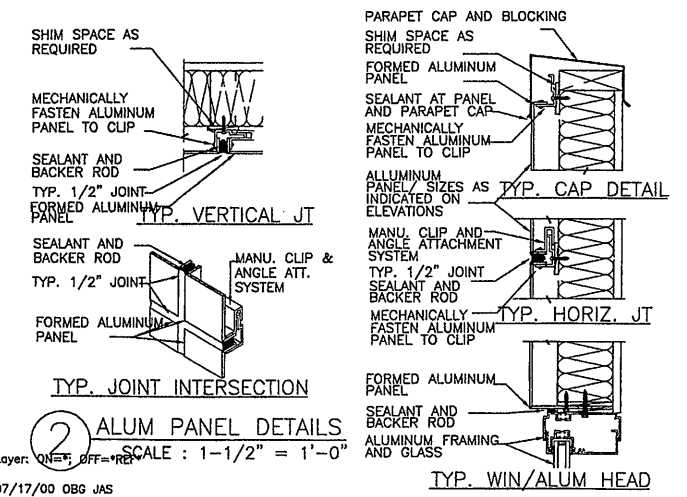
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DATE: 12-1-05 PER: TWS
File Number: 00659
Date: APRIL 2001
A-504

GENERAL NOTE:
1. SEE DRAWING A-001 FOR TYPICAL ROOF PENETRATION DETAILS.

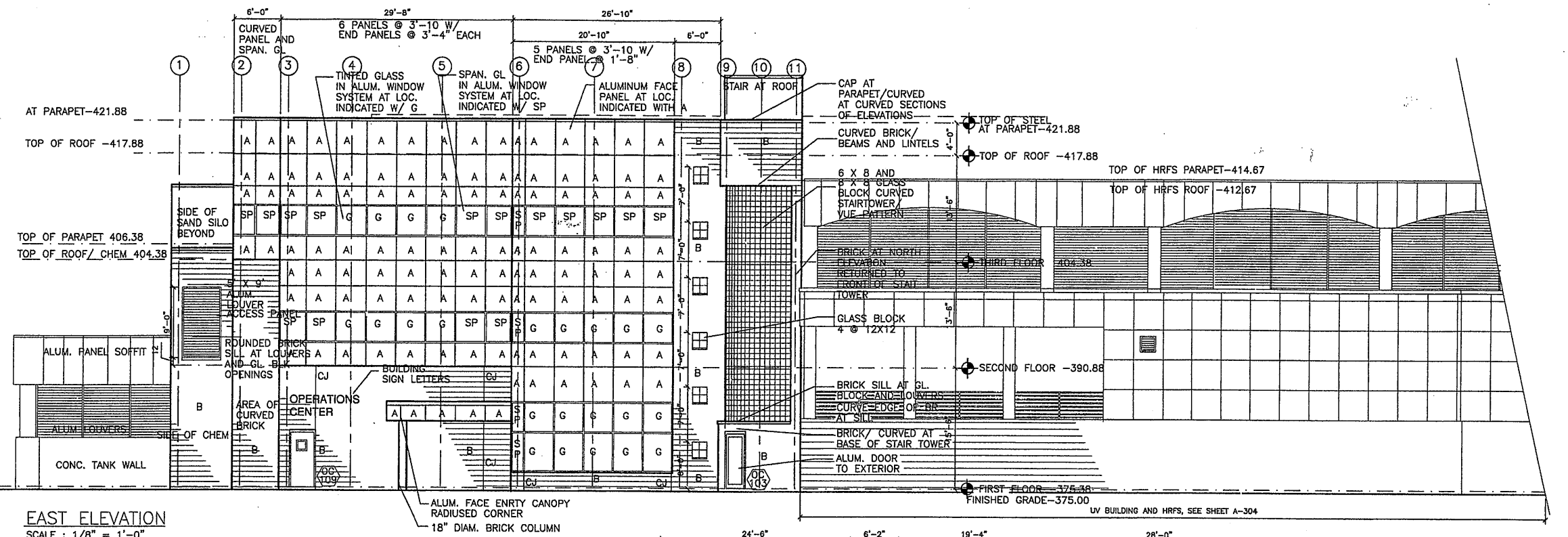
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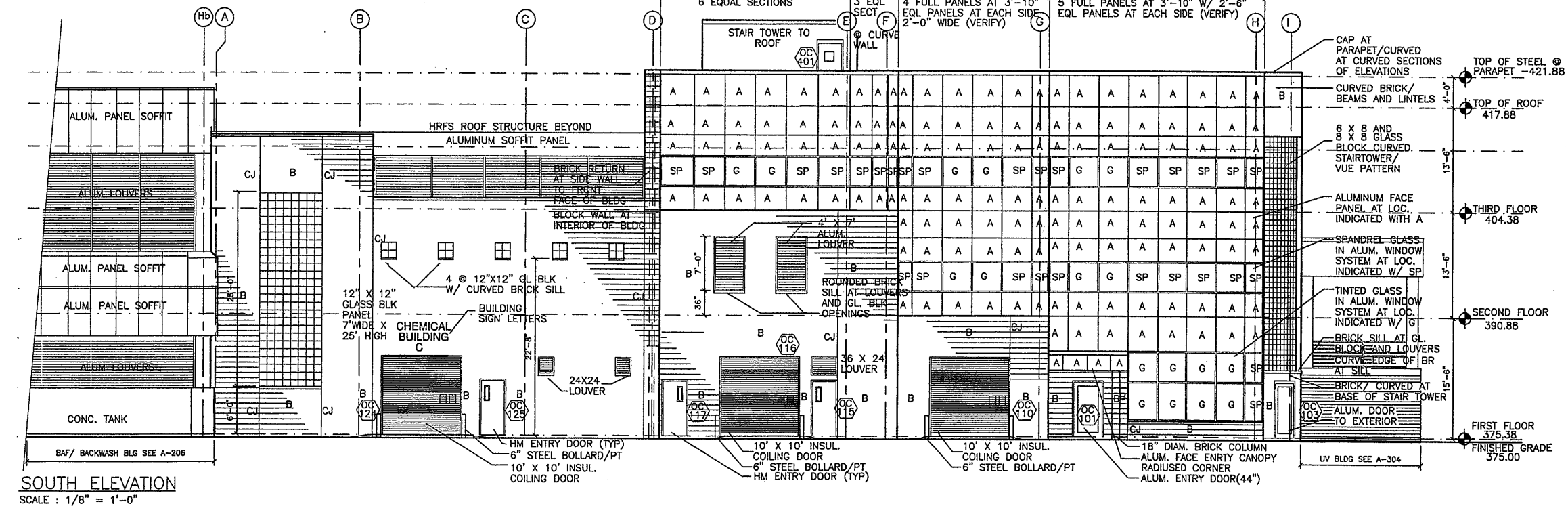
1 PARTIAL ELEVATION
SCALE : 1/4" = 1'-0"



2 ALUM PANEL DETAILS
SCALE : 1-1/2" = 1'-0"

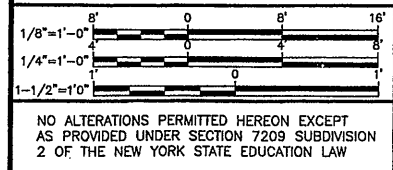


EAST ELEVATION
SCALE : 1/8" = 1'-0"



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

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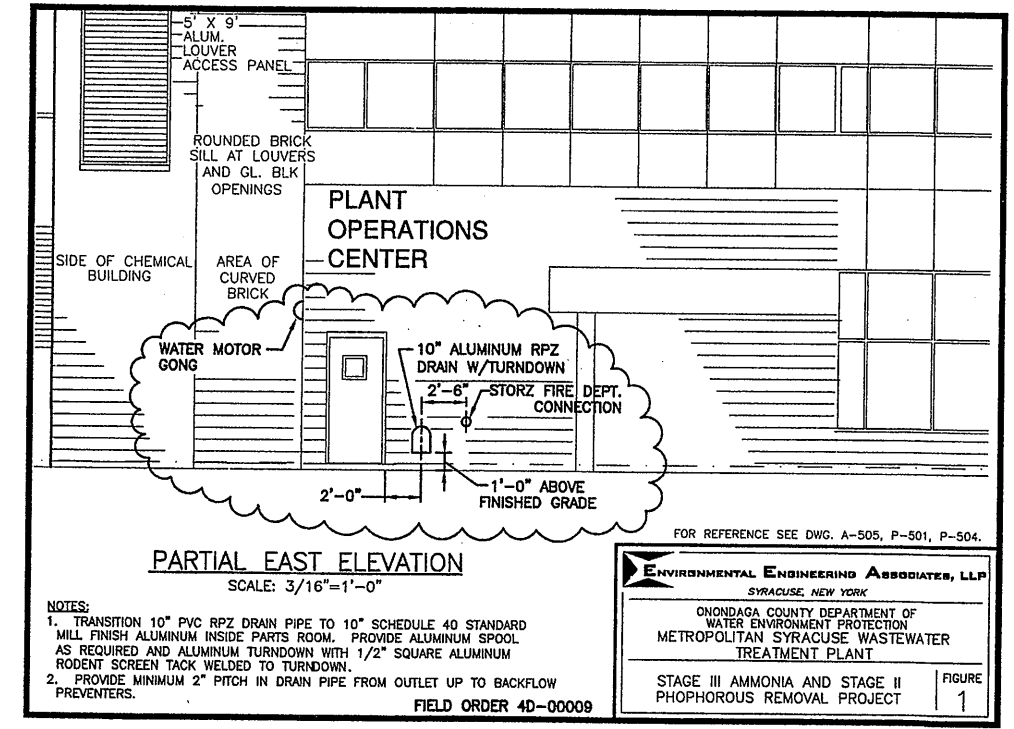
GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

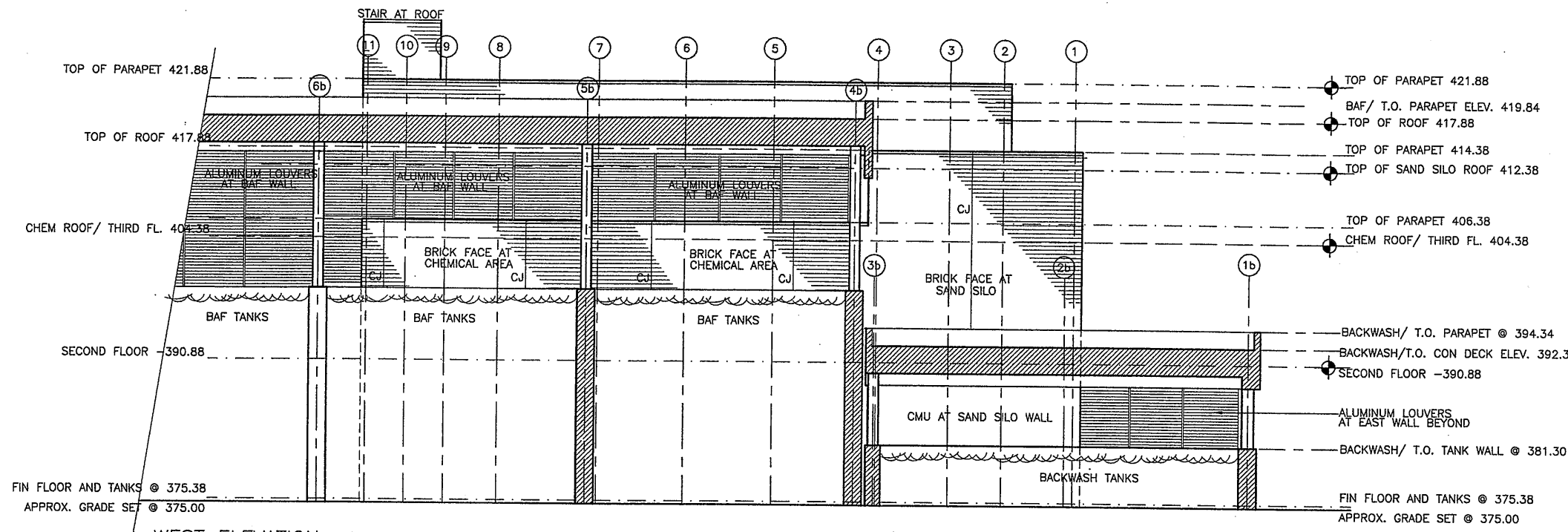
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
OPERATIONS CENTER AND CHEMICAL BUILDING-C
EAST AND SOUTH ELEVATIONS
ARCHITECTURAL

File Number 00659
Date APRIL 2001
A-505

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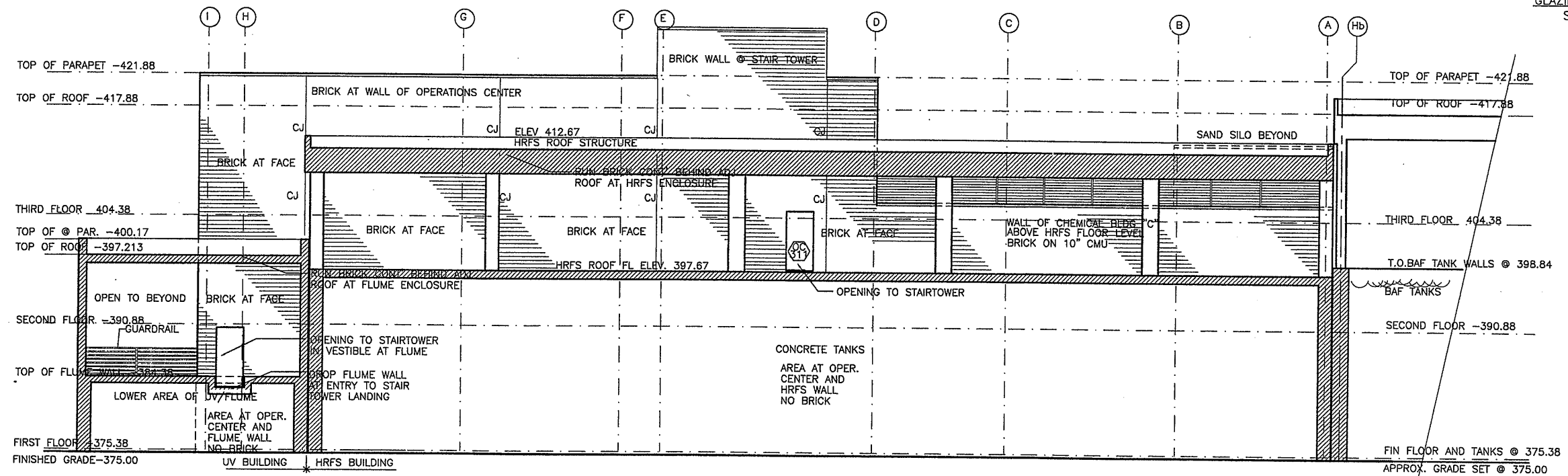
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WEST ELEVATION SCALE : 1/8" = 1'-0"

- EXTERIOR FINISHES**
- ALUMINUM COMPOSITE PANELS**
SIMILAR TO ALLUCOBOND 4 MIL
COLOR- TO BE SELECTED FROM
1-30-D BIRCH
1-30-D ALABASTER
4-30-D BONE WHITE
PANELS SIMILAR TO ALPOLIC 4 MIL
COLOR- TO BE SELECTED FROM
PEARL WHITE
MIST WHITE
COW-G 30 %
PANELS
BRICK AND MORTAR- MATCH THE BRICK PANEL AT THE NORTHERN MOST END OF THE NEW SCREENINGS AND GRIT BUILDING
BRICK BLEND OF
BELDEN- #98-19 (470-479/MED- "A" MOD.)
BELDEN- #00-18 (470-479/LIGHT- "A" MOD.)
ENDICOTT CLAY- DESERT IRONSPOT DARK/MOD. SMOOTH/TK
ENDICOTT CLAY- DESERT IRONSPOT LT/MOD. SMOOTH/TK2
- GLASS BLOCK**
SIMILAR TO PITTSBURGH CORNING
VUE- 12 X 12"
VUE- 8" X 8" AND 6" X 8"
AT STAIR TOWER
- GLAZING**
1" INSULATING GLASS/ 2 LAYERS 1/4" GLASS WITH 1/2" AIR SPACE/ BLUE TINTED GLASS AT EXTERIOR AND CLEAR GLASS AT INTERIOR FACE
- SPANDREL GLAZING**
1" INSULATING UNIT/ 2 LAYERS 1/4" GLASS WITH 1/2" AIR SPACE/ BLUE TINTED GLASS AT EXTERIOR AND NEUTRAL COLOR FRIT TO INSIDE OF AIRSPACE
SUBMIT SAMPLE PANES FOR APPROVAL
- GLAZING SYSTEM**
SIMILAR TO KAWNEER FA-SET 400T FRAMING



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

Layer: ON=*; OFF=*REF*
07/17/00 OBG JAS
EEA-VERT

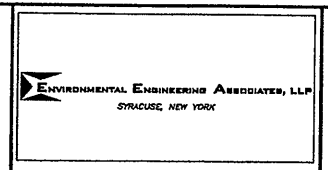
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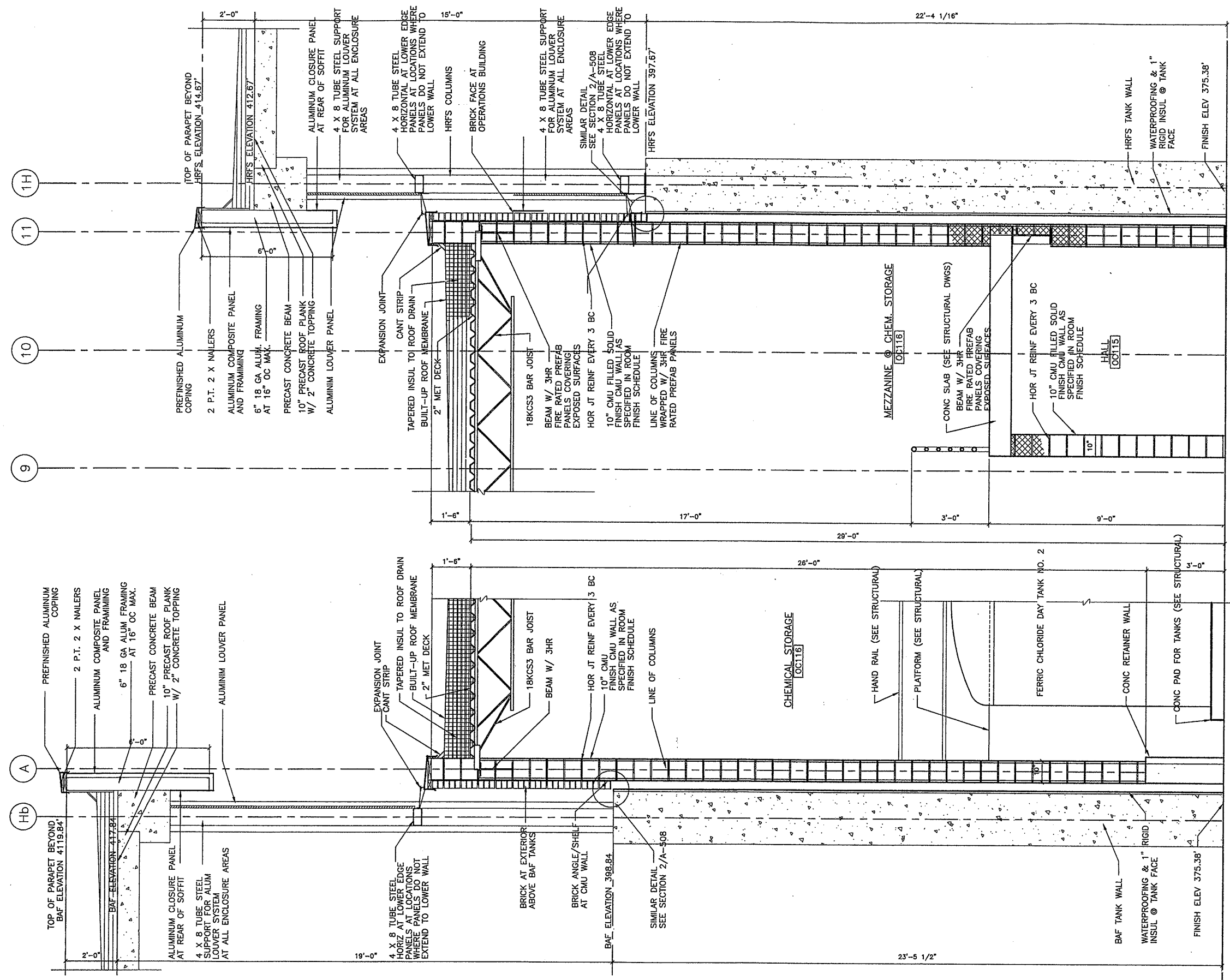
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
OPERATIONS CENTER AND CHEMICAL BUILDING -C
WEST AND NORTH ELEVATIONS
ARCHITECTURAL

File Number 00659	A-506
Date APRIL 2001	



2 WALL SECTION @ CHEM BLDG C
 SCALE : 1/2" = 1'-0"

1 WALL SECTION @ CHEM BLDG C
 SCALE : 1/2" = 1'-0"

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OPERATIONS CENTER AND CHEMICAL BUILDING-C
WALL SECTIONS
 ARCHITECTURAL

File Number 00659	A-507
Date APRIL 2001	

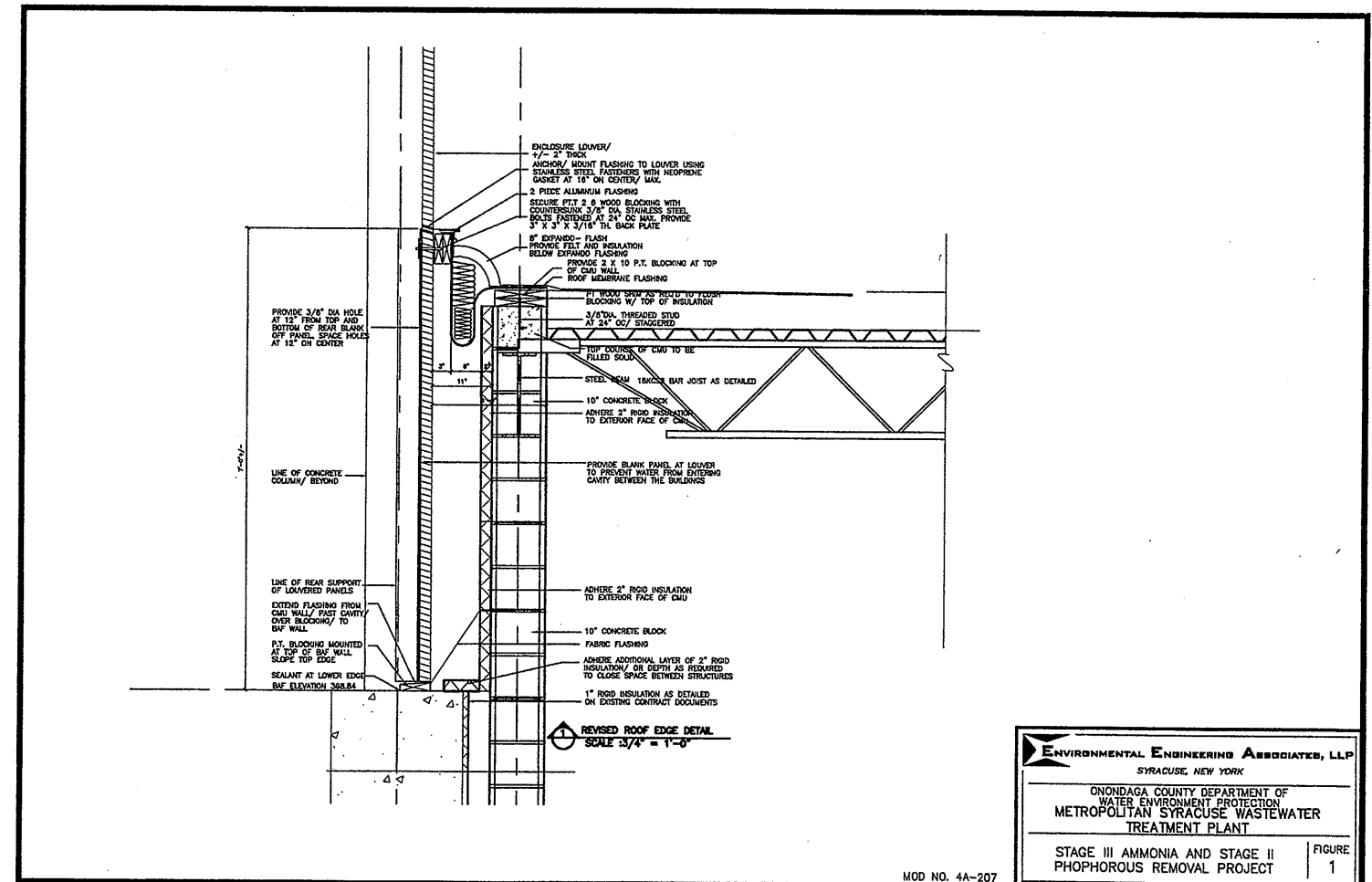


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ONONDAGA COUNTY DEPARTMENT OF
WATER ENVIRONMENT PROTECTION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

STAGE III AMMONIA AND STAGE II
PHOPHOROUS REMOVAL PROJECT

FIGURE
1

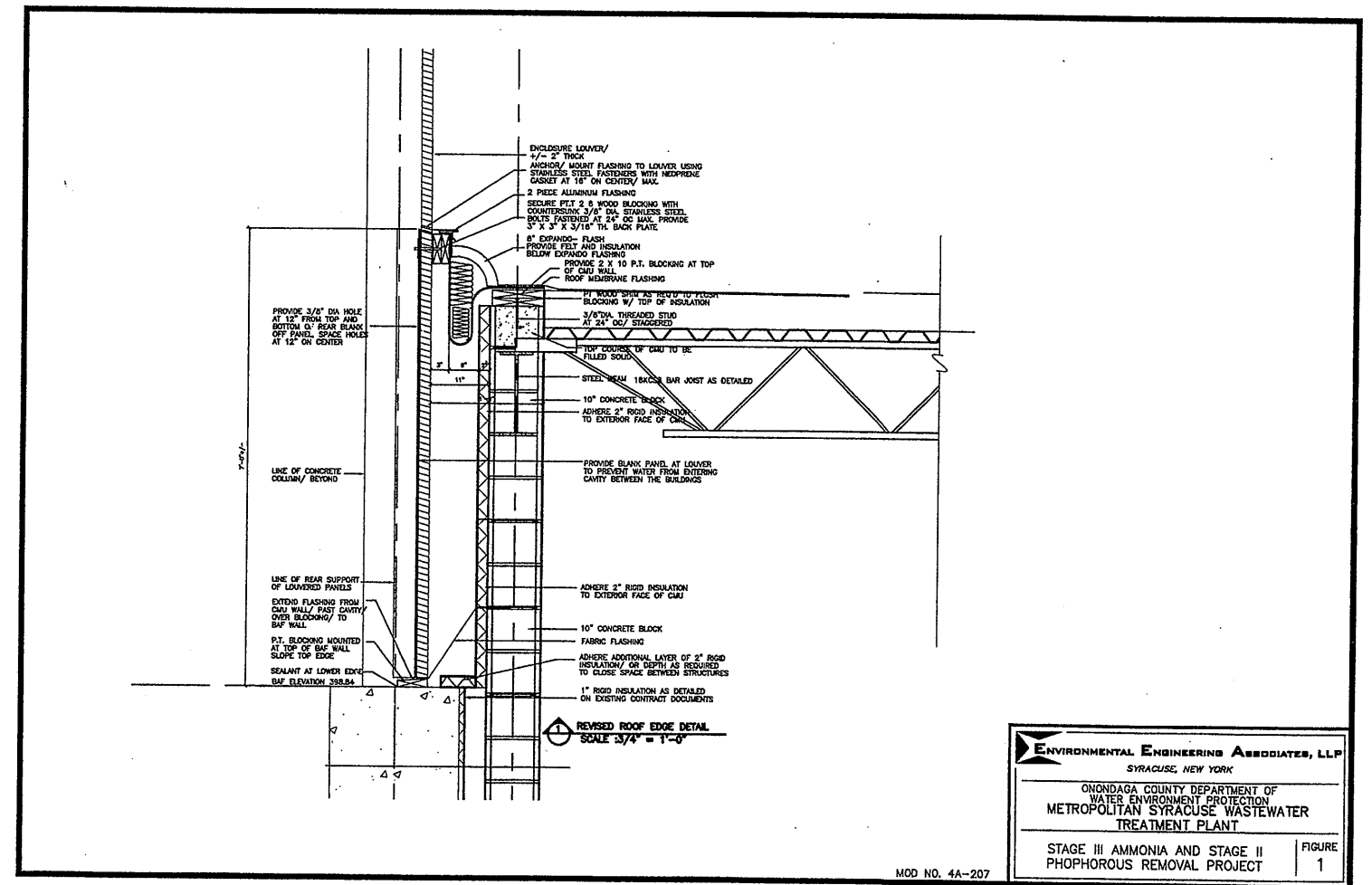


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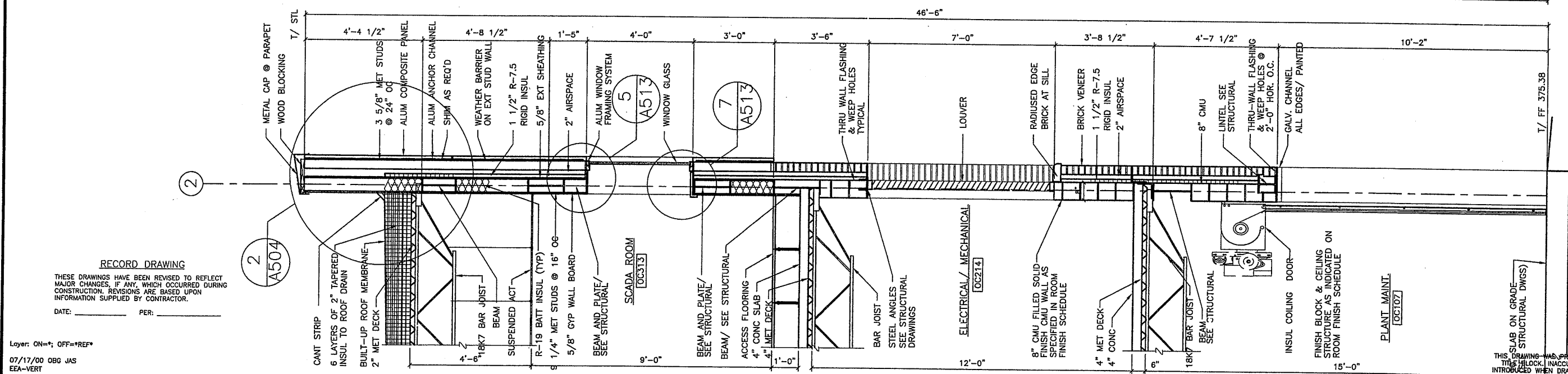
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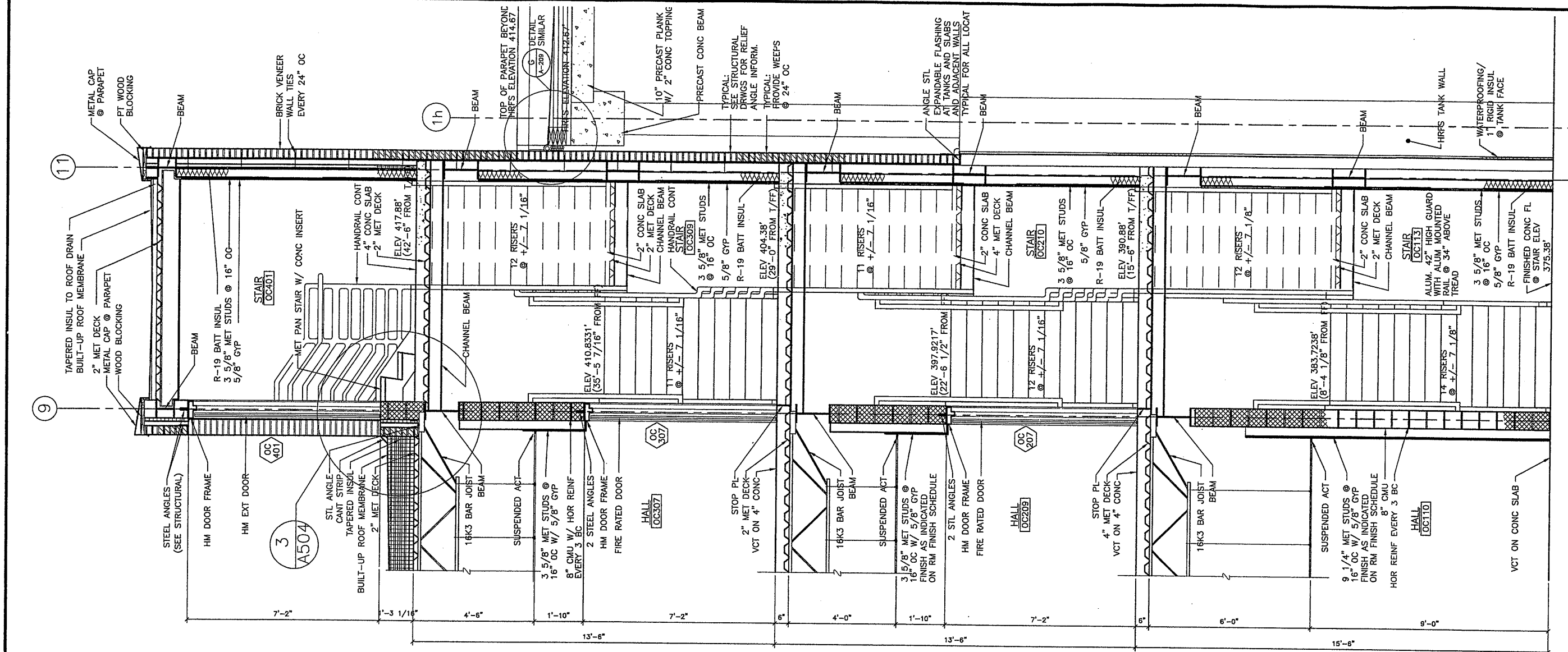
ONONDAGA COUNTY DEPARTMENT OF
WATER ENVIRONMENT PROTECTION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIGURE
1



1 WALL SECTION @ OPER CENTER
SCALE: 1/2" = 1'-0"



2 WALL SECTION @ OPER CENTER STAIR
SCALE: 1/2" = 1'-0"

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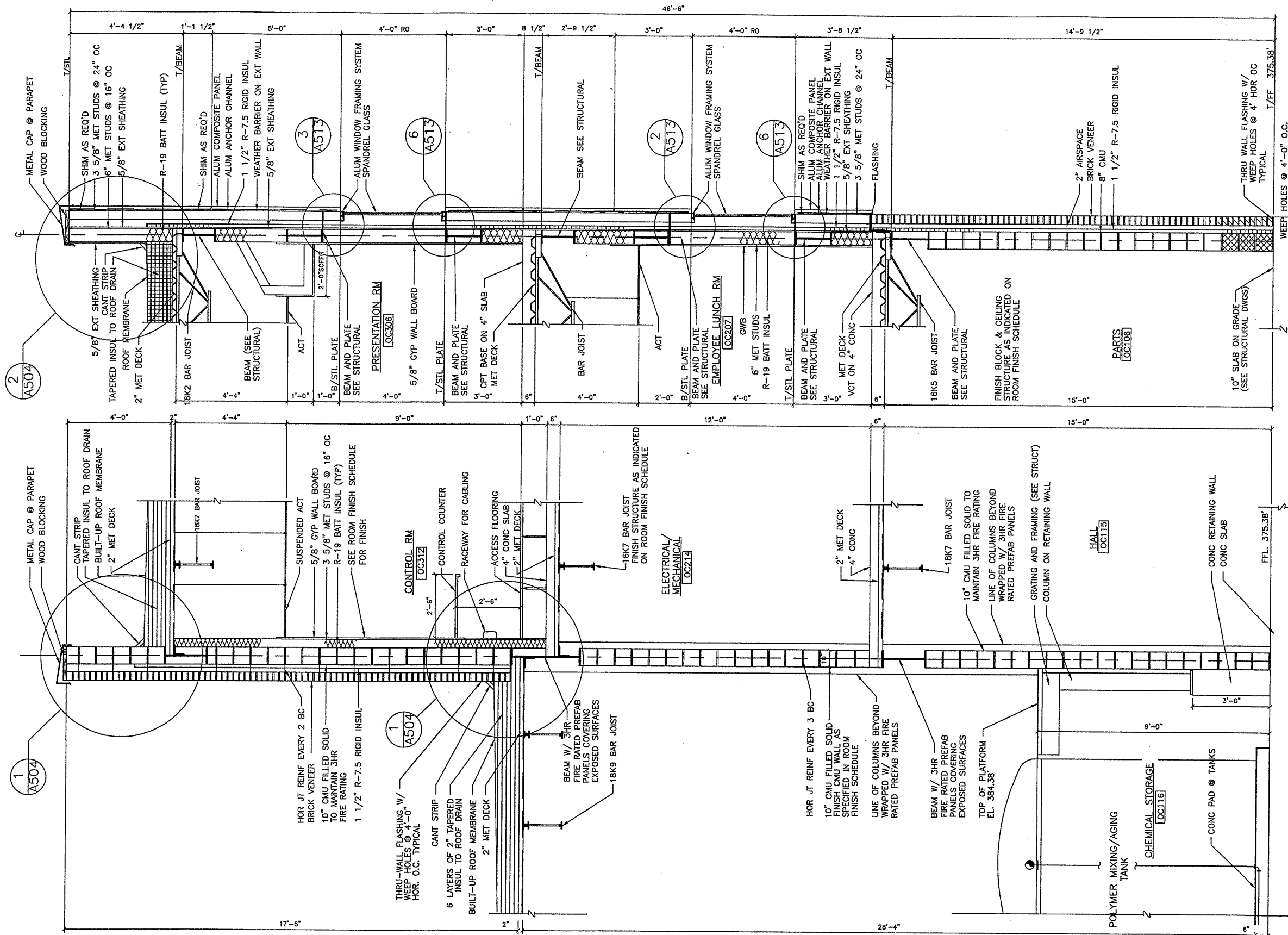
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
OPERATIONS CENTER AND CHEMICAL BUILDING-C
WALL SECTIONS
ARCHITECTURAL

File Number: 00659
Date: APRIL 2001
A-508

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2 WALL SECTION @ OPER. CENTER
SCALE : 1/2" = 1'-0"

1 WALL SECTION @ OPER. CENTER & CHEM BLD "C"
SCALE : 1/2" = 1'-0"

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SYRACUSE, NEW YORK 13206
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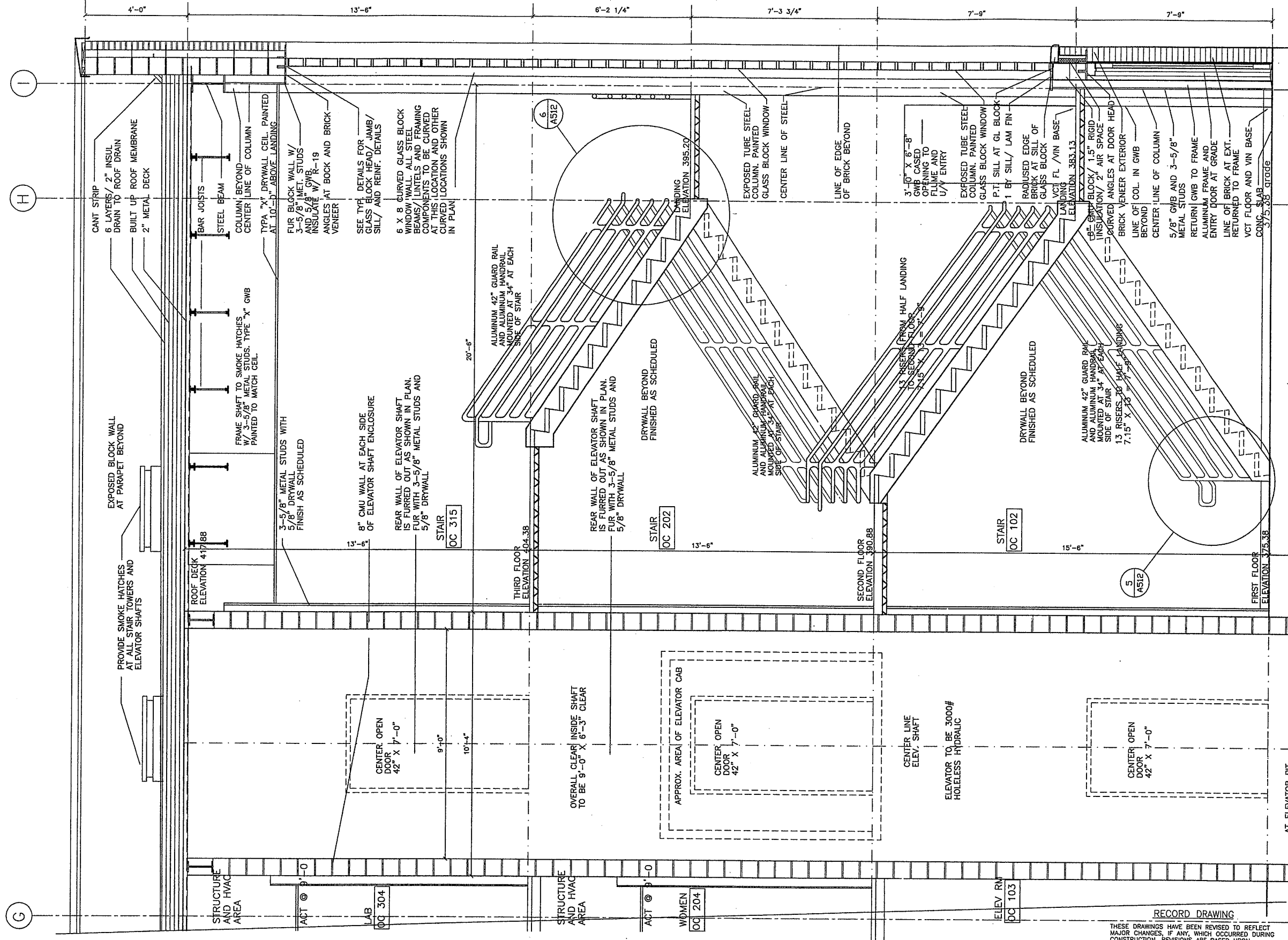
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OPERATION CENTER AND CHEMICAL BUILDING-C
WALL SECTIONS
ARCHITECTURAL

File Number	00659	A-509
Date	APRIL 2001	

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1 WALL SECTION AT ELEVATOR AND STAIR TOWER
 SCALE : 1/2" = 1'-0"

Layer: ON=*; OFF=*REF*
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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

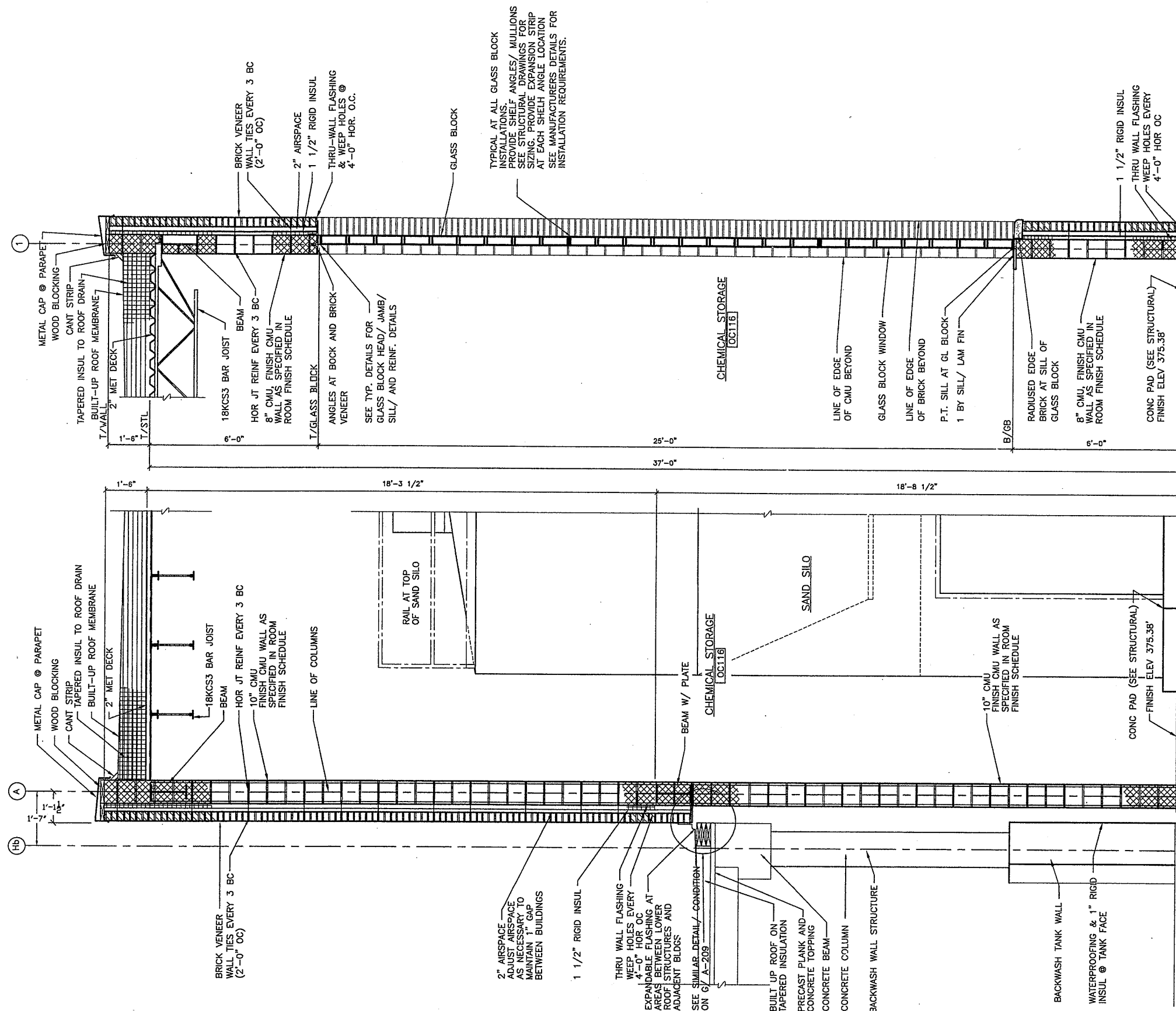
**OPERATIONS CENTER AND CHEMICAL BUILDING-C
 BUILDING SECTION-STAIR AND ELEVATOR**
 ARCHITECTURE

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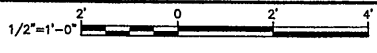
2 WALL SECTION @ CHEM BLDG C
SCALE: 1/2" = 1'-0"

1 WALL SECTION @ CHEM BLDG C
SCALE: 1/2" = 1'-0"

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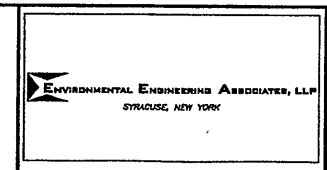
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0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	0/31/05	RECORD DRAWING	TWS

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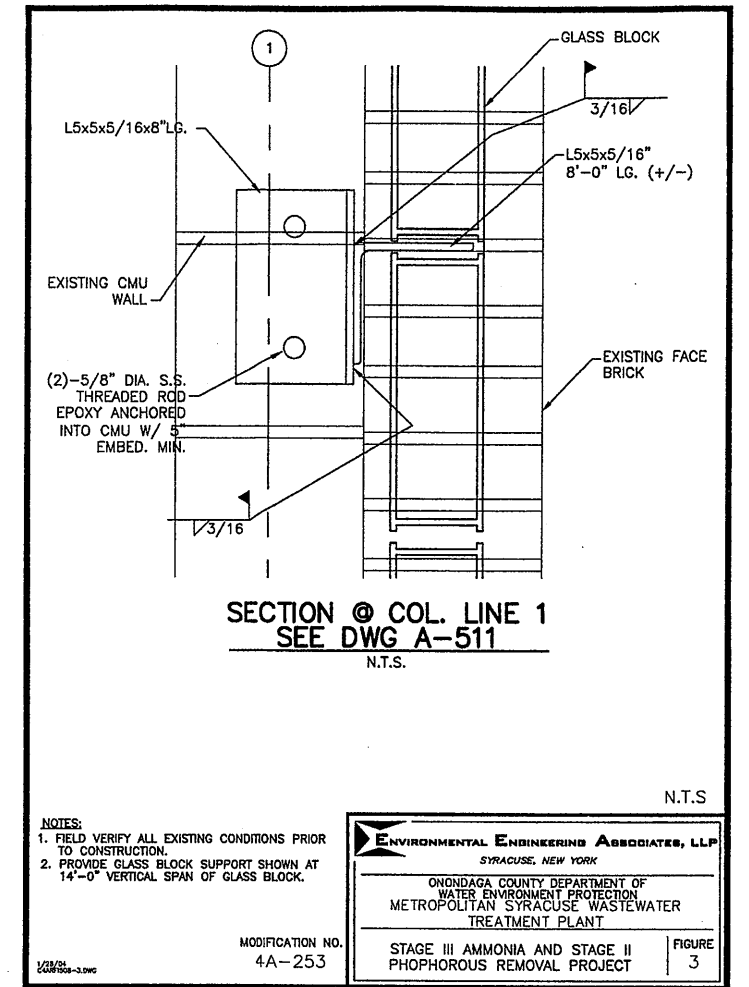
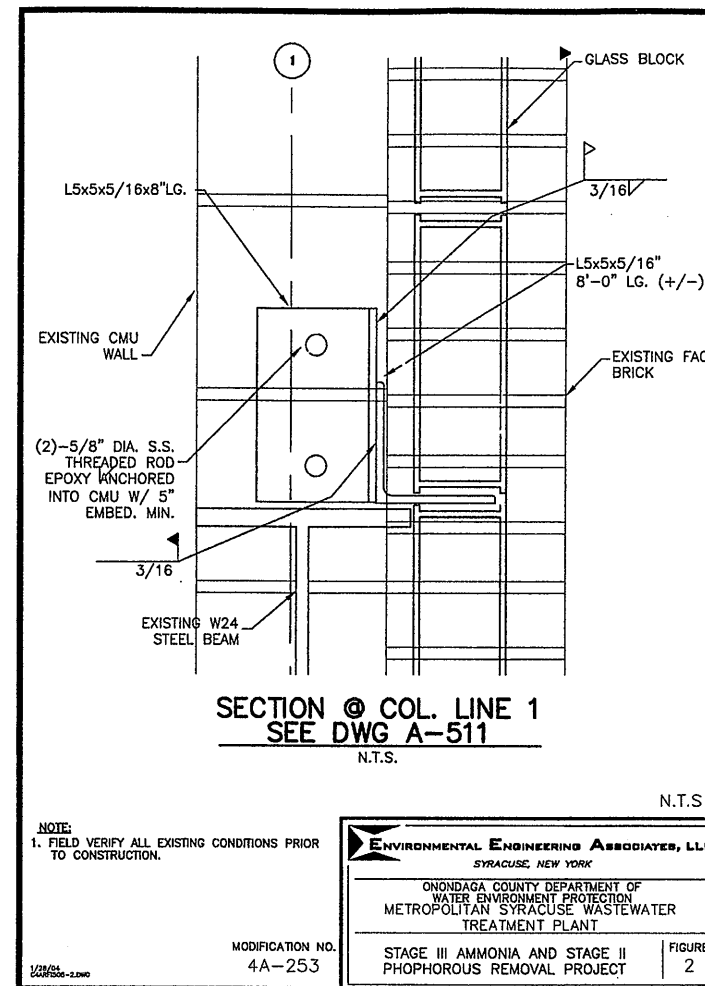
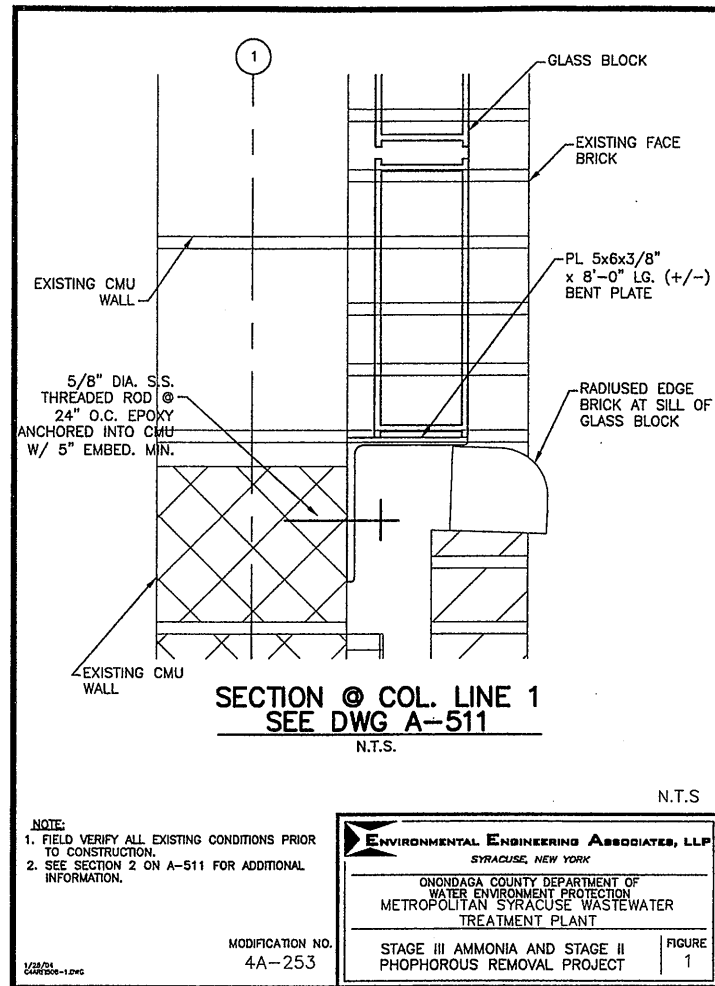
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
OPERATIONS CENTER AND CHEMICAL BUILDING-C
WALL SECTIONS
ARCHITECTURAL

File Number
00659
Date
APRIL 2001

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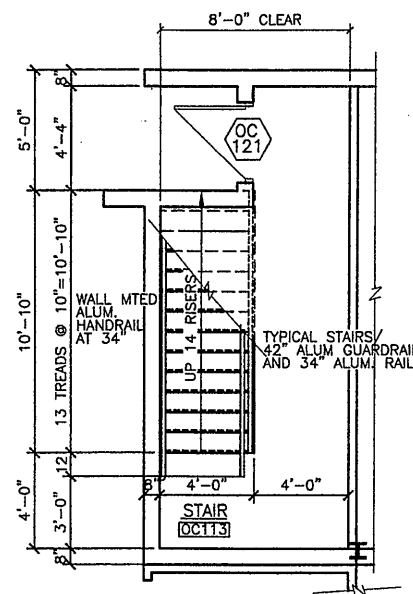


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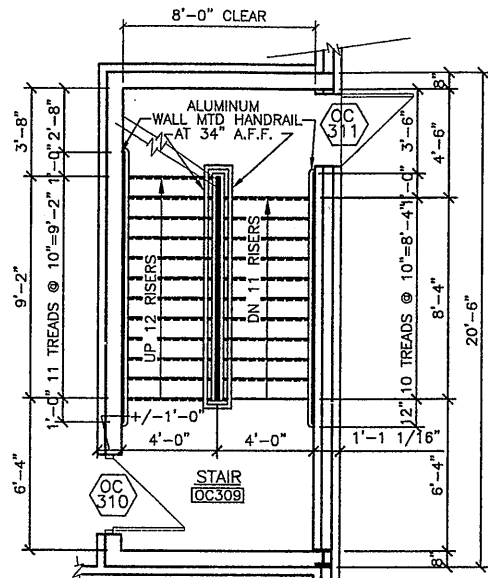
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DATE: 12-1-05 PER: TJS

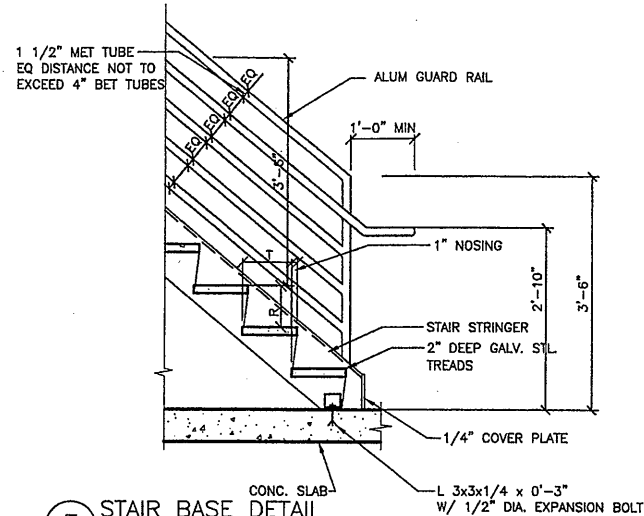
REF. SHEET A-511



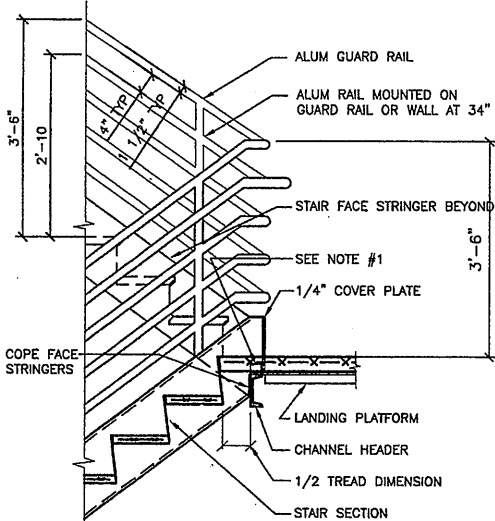
1 ENLARGED PLAN DETAIL FROM 1ST FLOOR PLAN SCALE 1/4"=1'-0"



2 ENLARGED PLAN DETAIL FROM 3RD FLOOR PLAN SCALE 1/4"=1'-0"

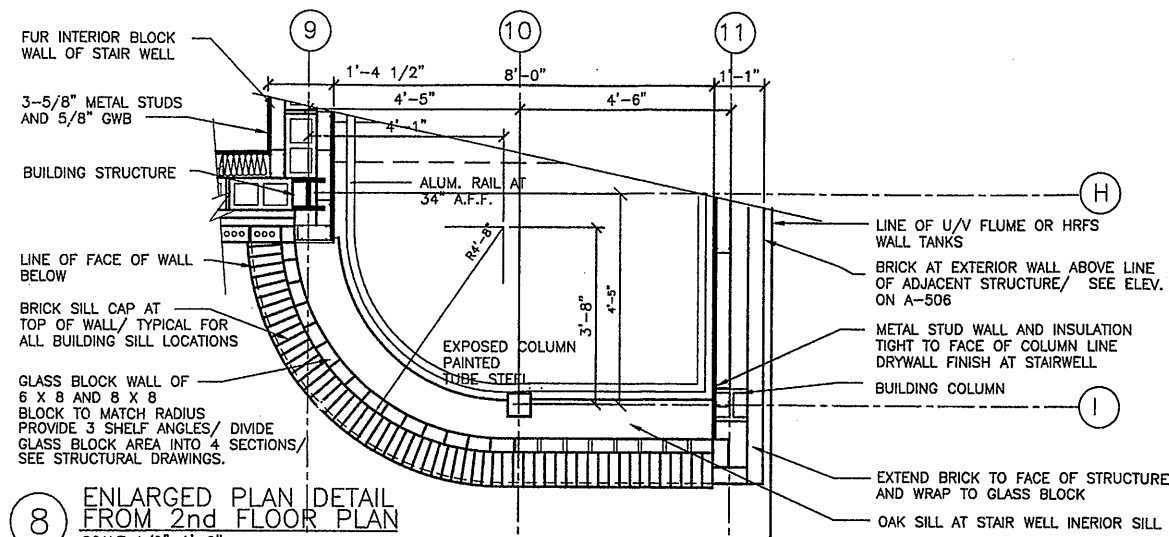


5 STAIR BASE DETAIL SCALE: 3/4" = 1'-0"

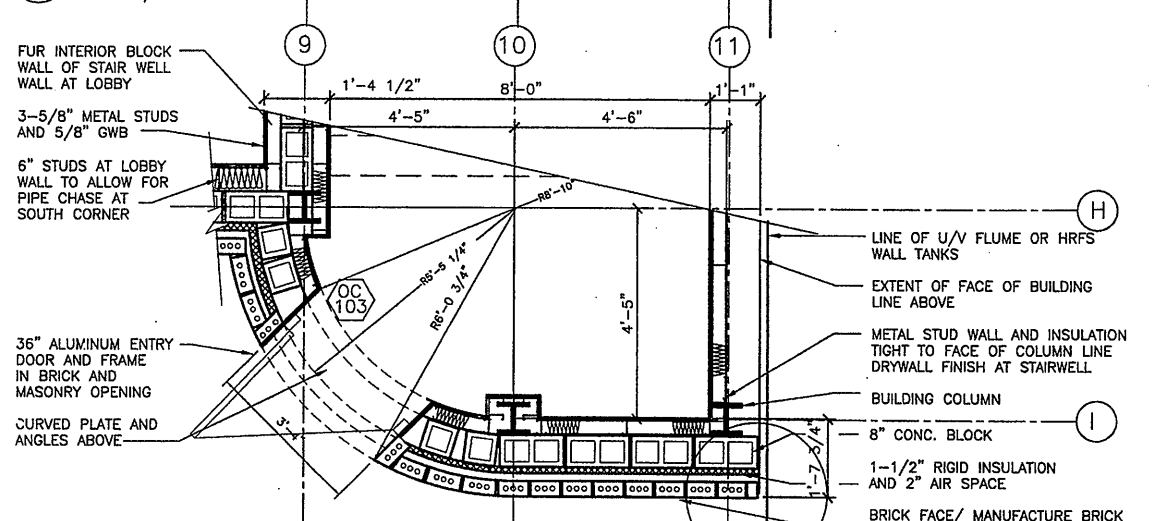


6 STAIR STRINGER FRAMING SCALE: 3/4" = 1'-0"

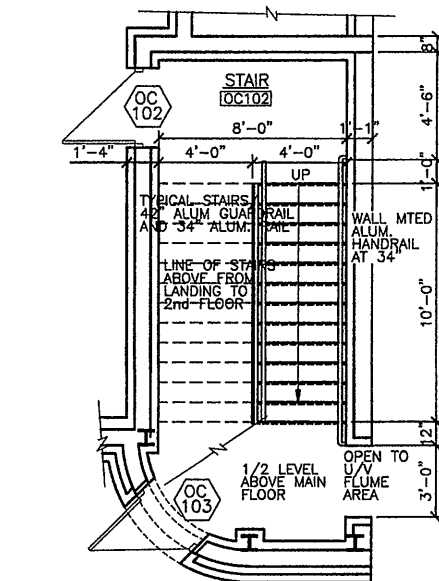
NOTES: 1.) STAIR FACE STRINGERS FRAME INTO BACK OF CHANNEL HEADER AT SAME ELEVATION. ATTACH FACE STRINGERS TO T/ CHANNEL HEADER W/ CLIP L 2 X 2 X 1/4.



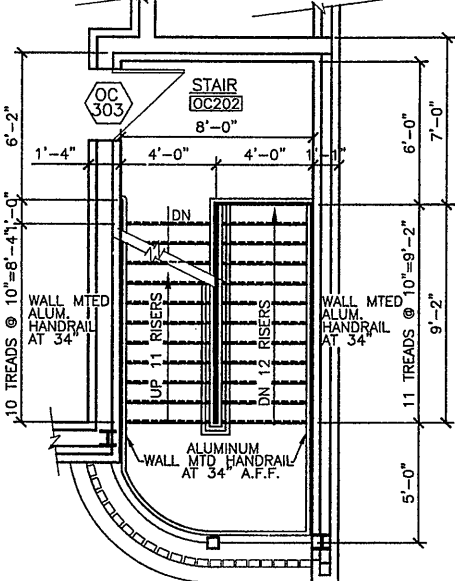
8 ENLARGED PLAN DETAIL FROM 2nd FLOOR PLAN SCALE 1/2"=1'-0"



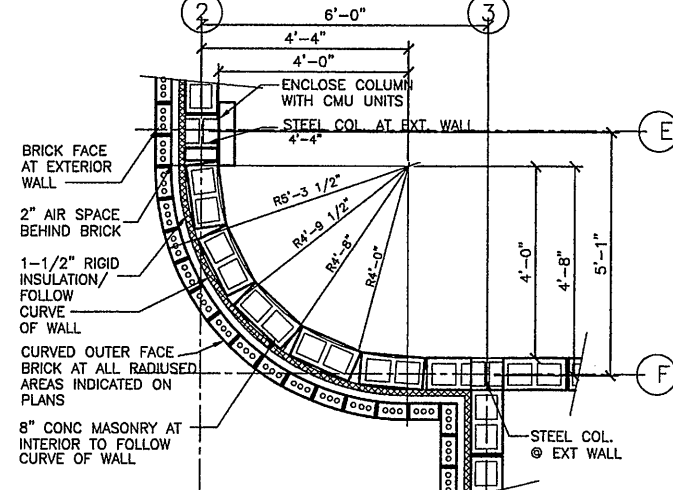
9 ENLARGED PLAN DETAIL FROM 1ST FLOOR PLAN SCALE 1/2"=1'-0"



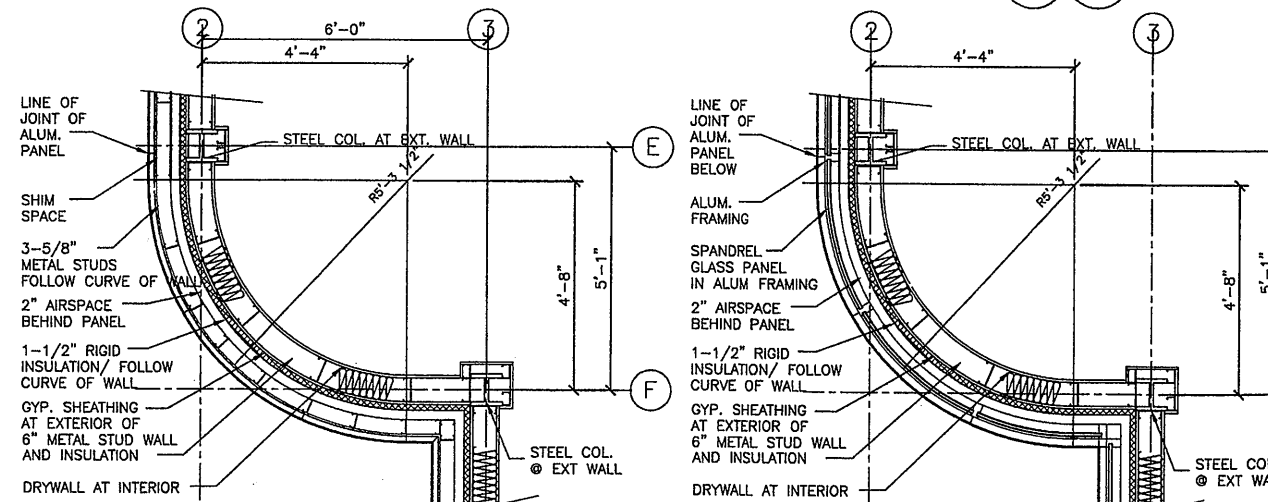
3 ENLARGED PLAN DETAIL FROM 1ST FLOOR PLAN SCALE 1/4"=1'-0"



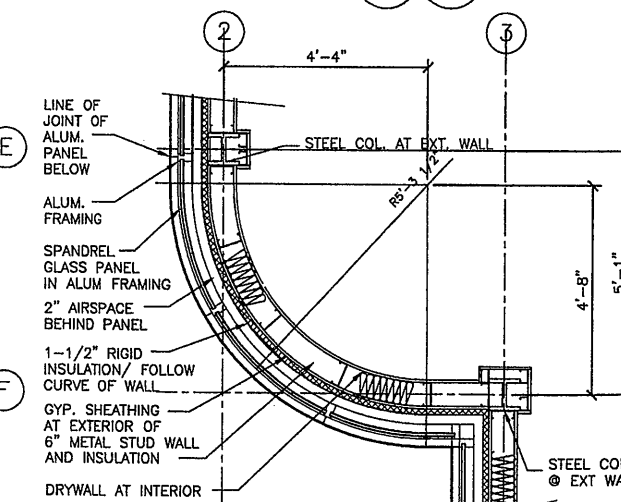
4 ENLARGED PLAN DETAIL FROM 3RD FLOOR PLAN SCALE 1/4"=1'-0"



7 ENLARGED PLAN DETAIL FROM 1ST FLOOR PLAN SCALE 1/2"=1'-0"



10 ENLARGED PLAN DETAIL FROM 2nd FLOOR PLAN SCALE 1/2"=1'-0"



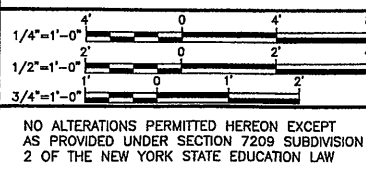
11 ENLARGED PLAN DETAIL FROM 3rd FLOOR PLAN SCALE 1/2"=1'-0"

RECORD DRAWING

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2	10/31/05	RECORD DRAWING	TWS

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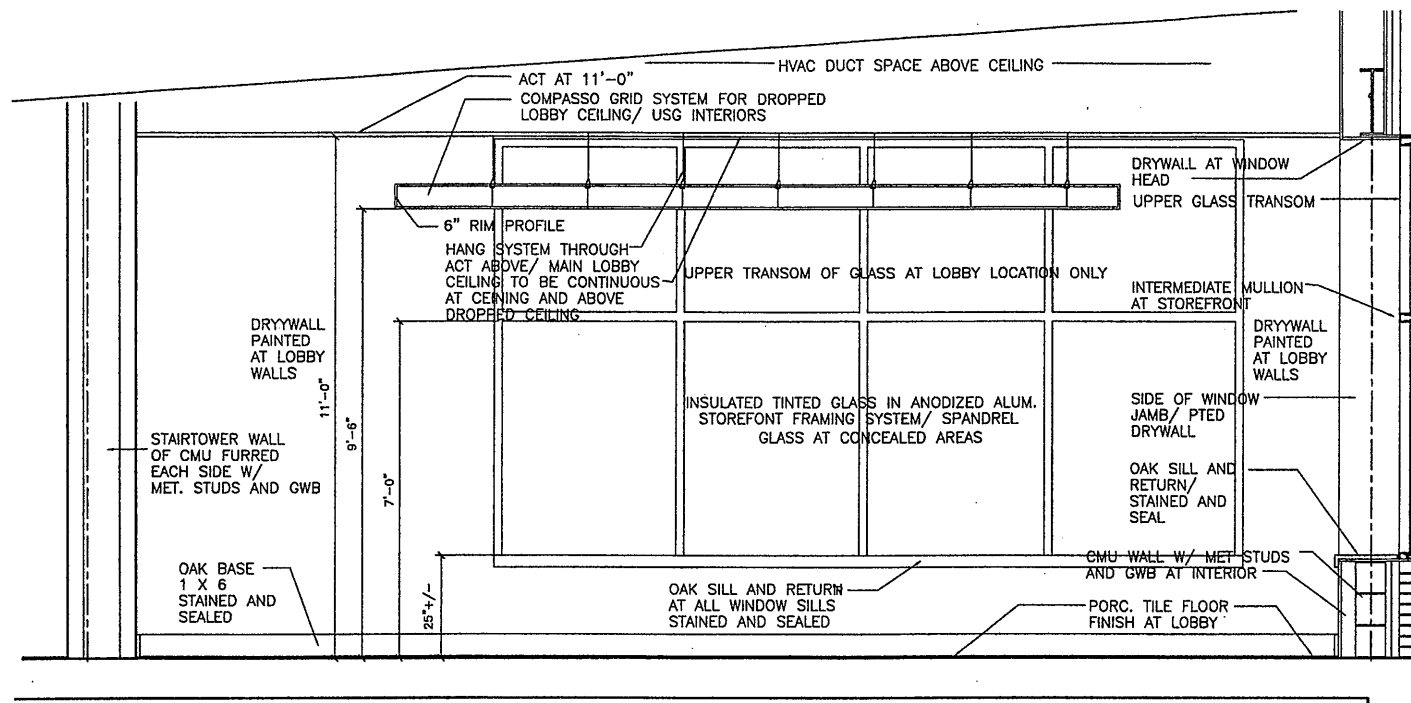
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

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SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

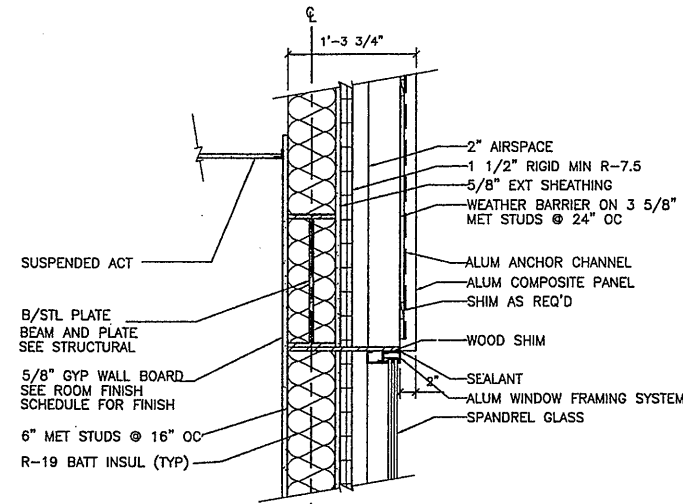
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
OPERATIONS CENTER AND CHEMICAL BUILDING-C
ARCHITECTURAL

File Number 00659
Date APRIL 2001
A-512

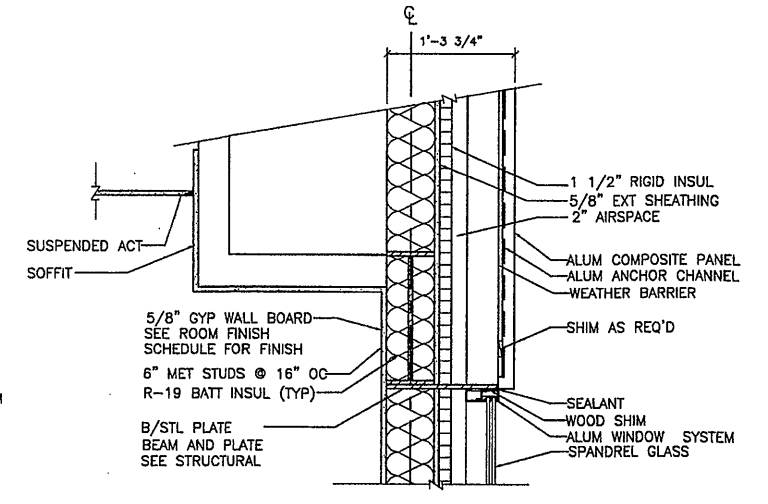
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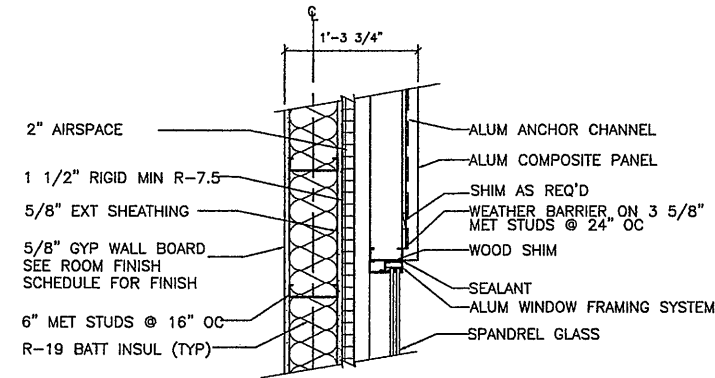
1 BUILDING SECTION AT FIRST FLOOR LOBBY
SCALE: 1/2" = 1'-0"



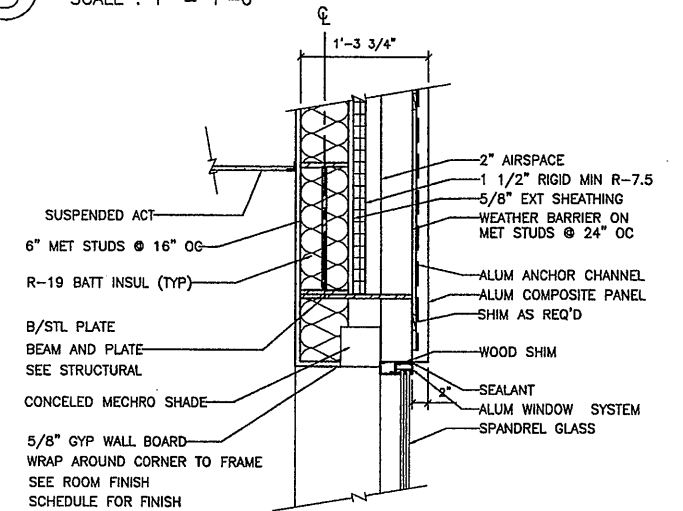
2 HEAD AT SPANDREL PANEL
SCALE: 1" = 1'-0"



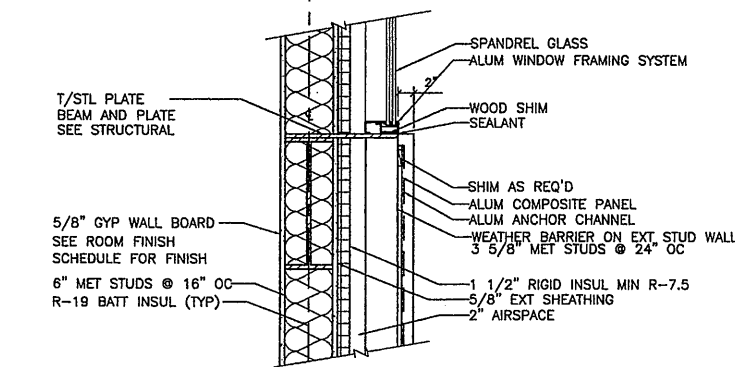
3 HEAD AT SPANDREL PANEL W/ SOFFIT
SCALE: 1" = 1'-0"



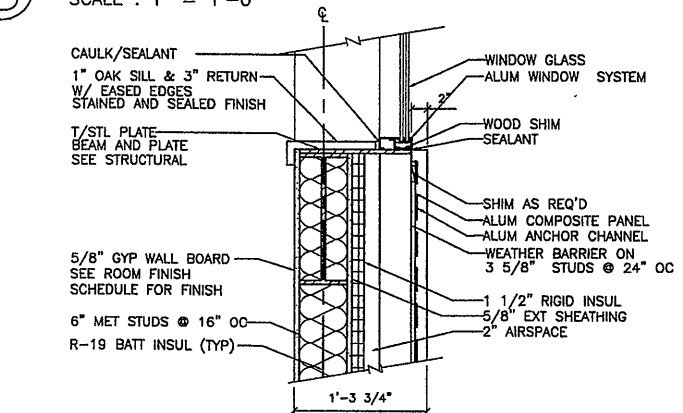
4 JAMB AT SPANDREL PANEL
SCALE: 1" = 1'-0"



5 HEAD AT WINDOW
SCALE: 1" = 1'-0"



6 SILL AT SPANDREL PANEL
SCALE: 1" = 1'-0"



7 SILL AT WINDOW
SCALE: 1" = 1'-0"

RECORD DRAWING

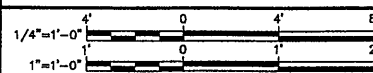
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

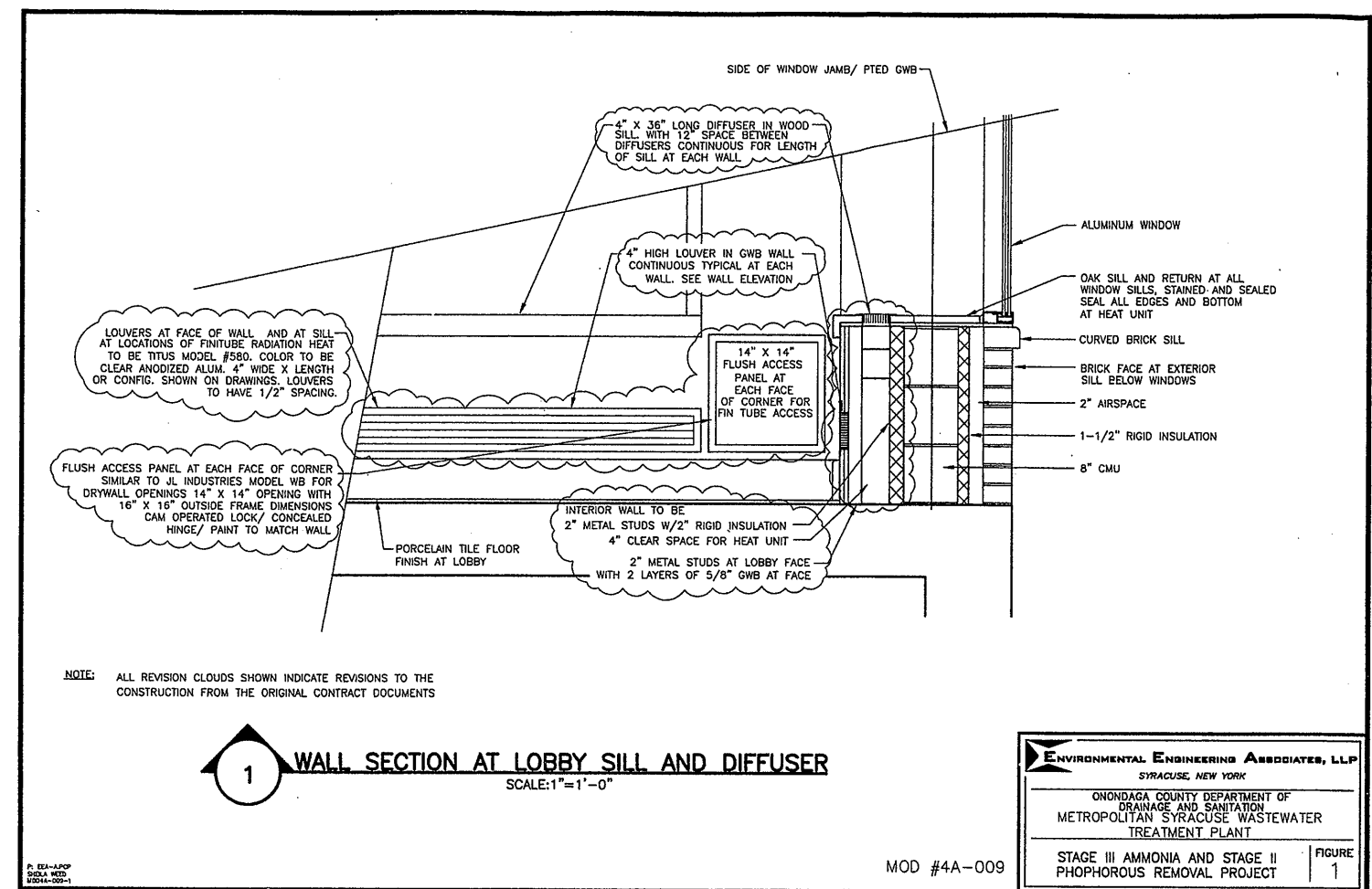
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File Number
00659

Date
APRIL 2001

A-513

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1 WALL SECTION AT LOBBY SILL AND DIFFUSER
SCALE: 1"=1'-0"

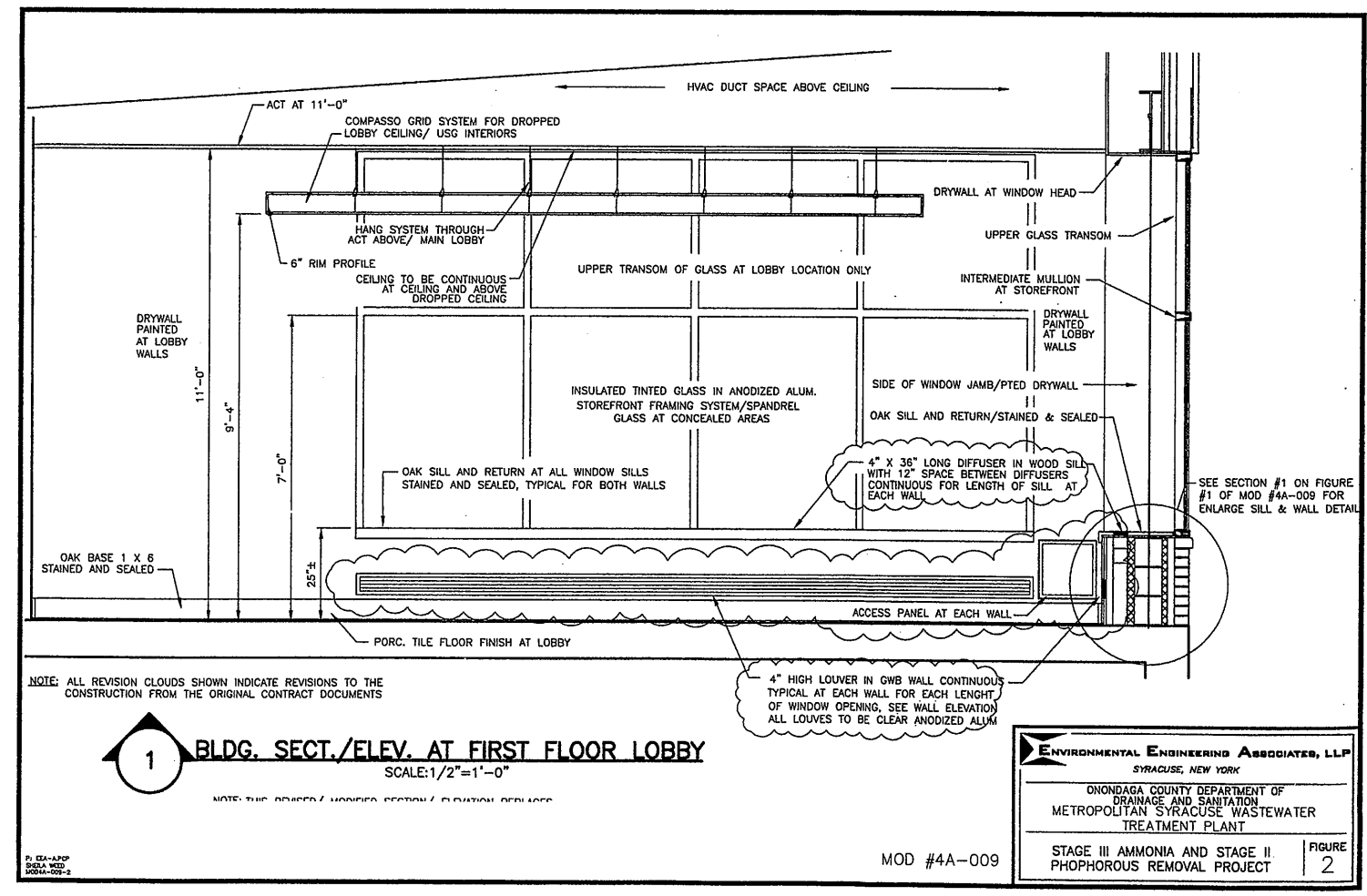
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SYRACUSE, NEW YORK

ONONDAGA COUNTY DEPARTMENT OF
DRAINAGE AND SANITATION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIGURE
1

MOD #4A-009



1 BLDG. SECT./ELEV. AT FIRST FLOOR LOBBY
SCALE: 1/2"=1'-0"

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METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIGURE
2

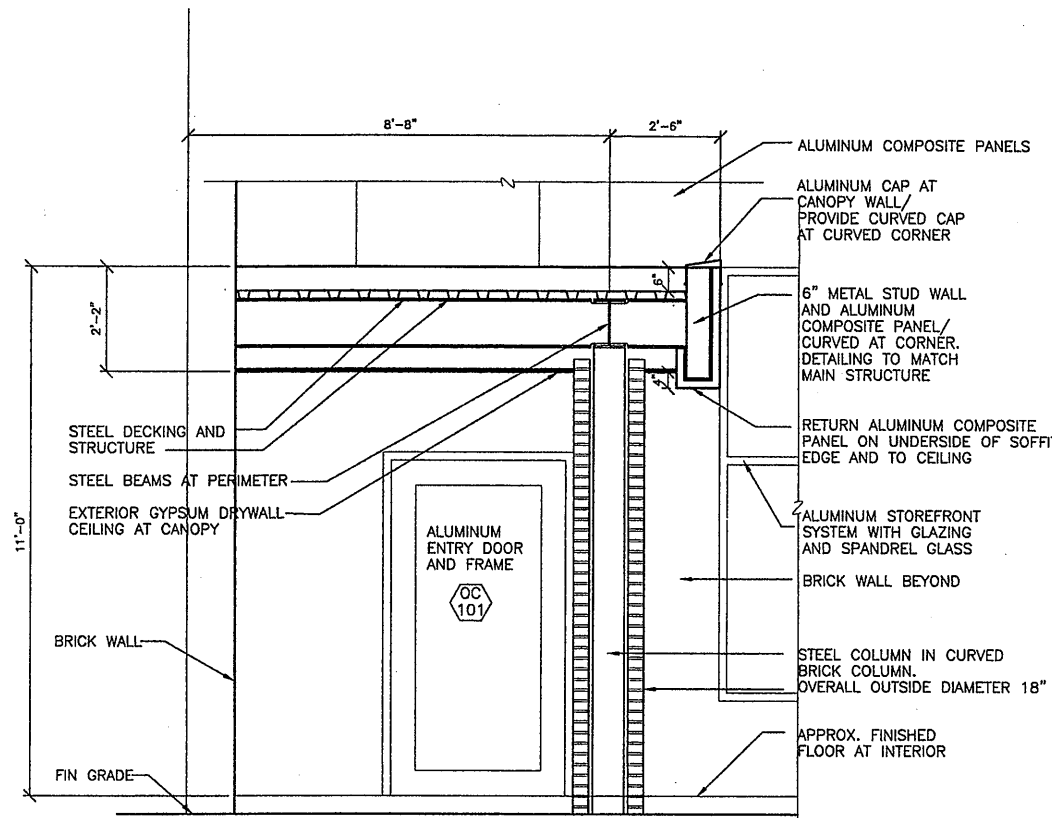
MOD #4A-009

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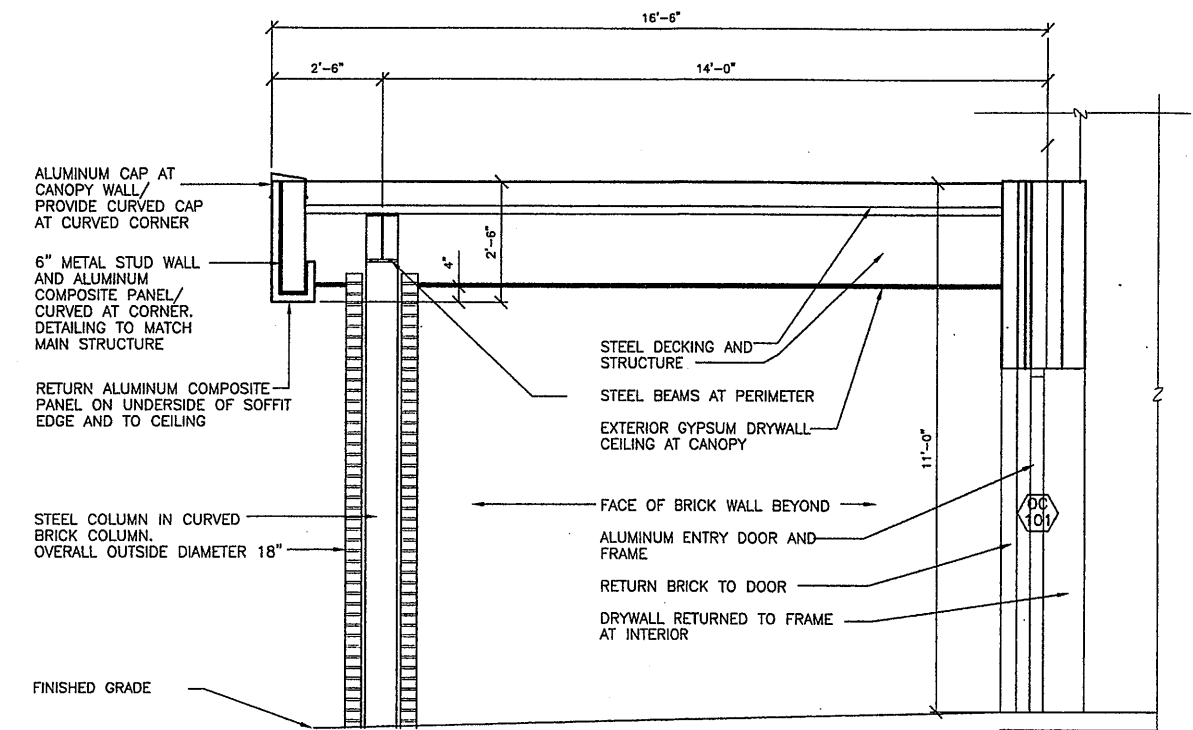
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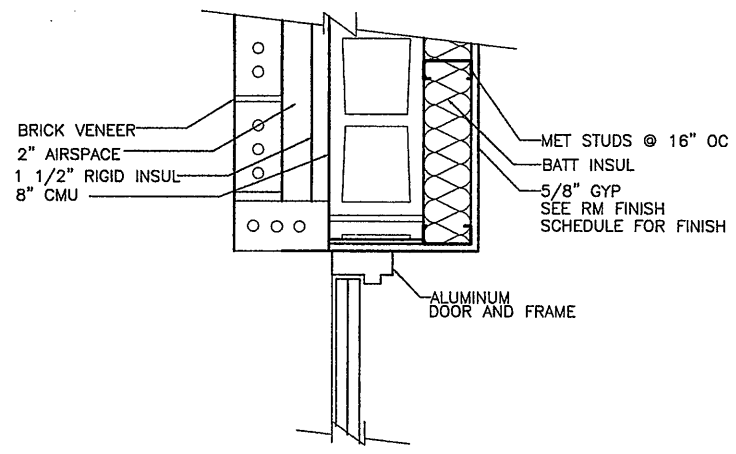
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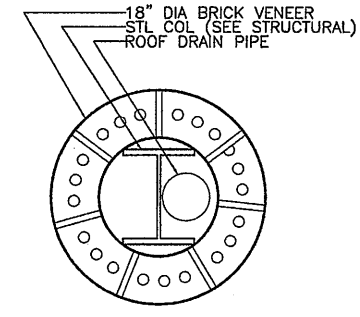
1 CANOPY SECTION
SCALE 1/2"=1'-0"



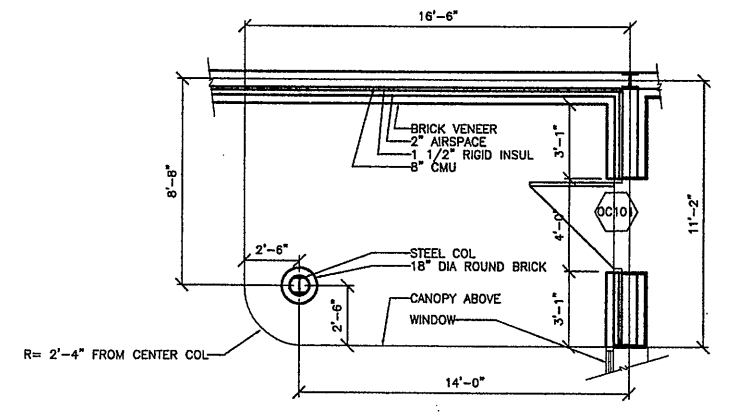
2 CANOPY SECTION
SCALE 1/2"=1'-0"



3 DOOR HEAD DETAIL
SCALE: 1- 1/2"=1'-0"



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



5 ENLARGED CANOPY PLAN
SCALE 1/4"=1'-0"

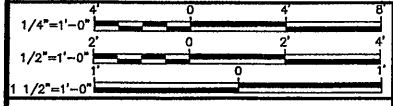
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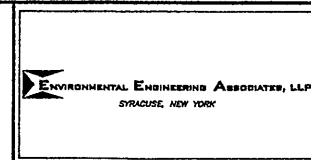
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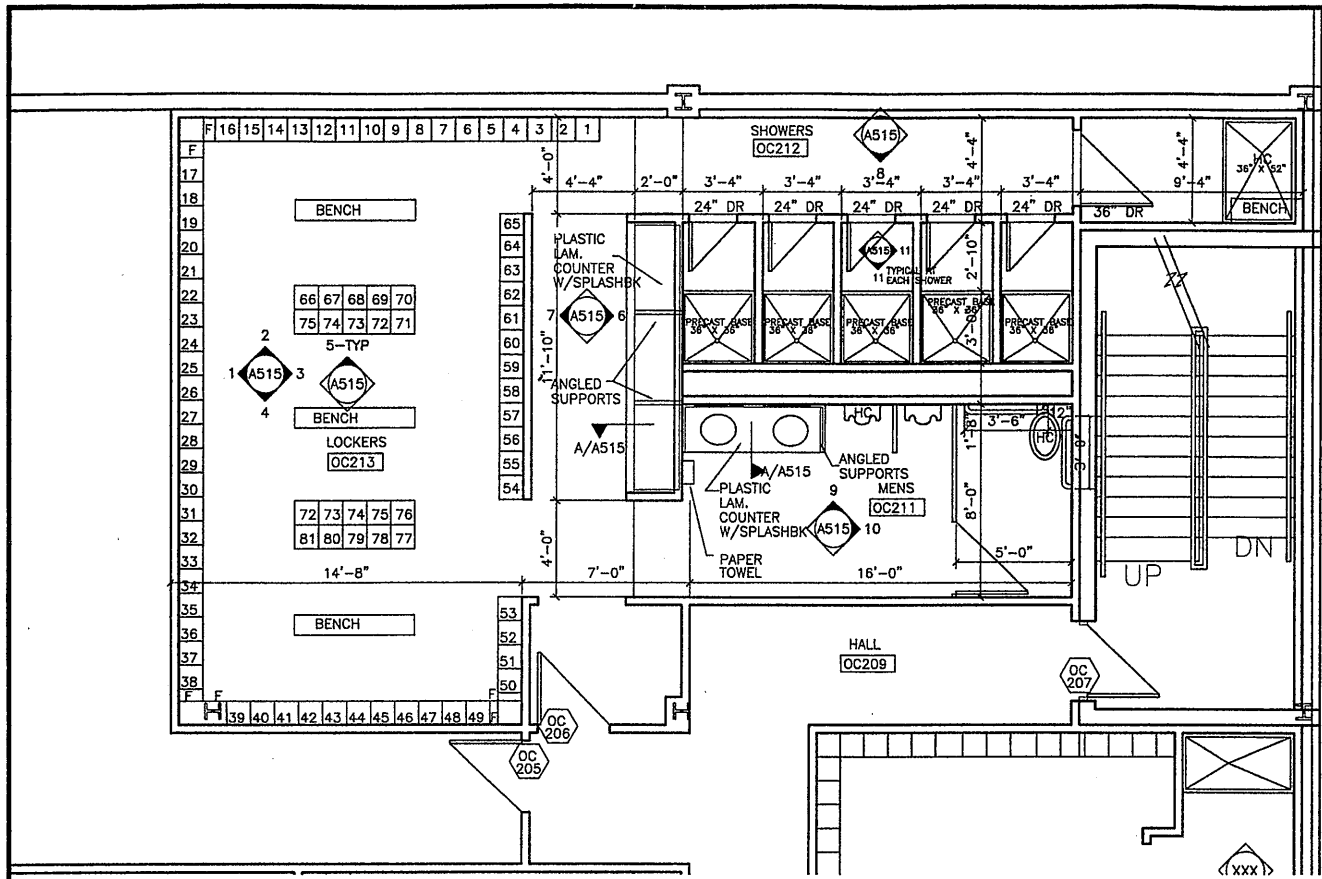


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SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

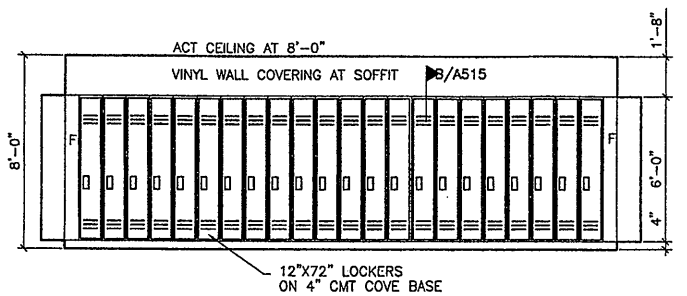
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CANOPY DETAILS
ARCHITECTURAL

File Number 00659	A-514
Date APRIL 2001	

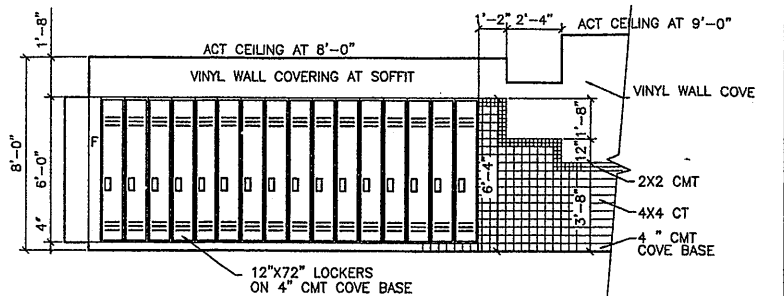
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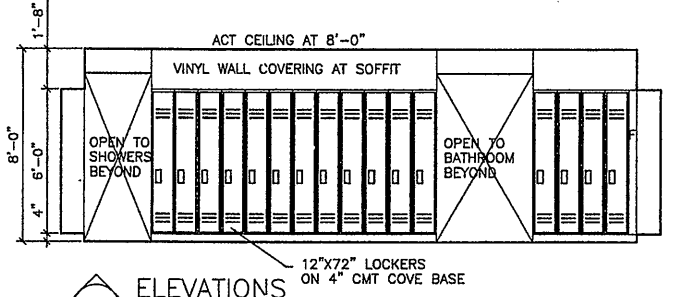
C MEN'S LOCKER ROOM
1/4"=1'-0"



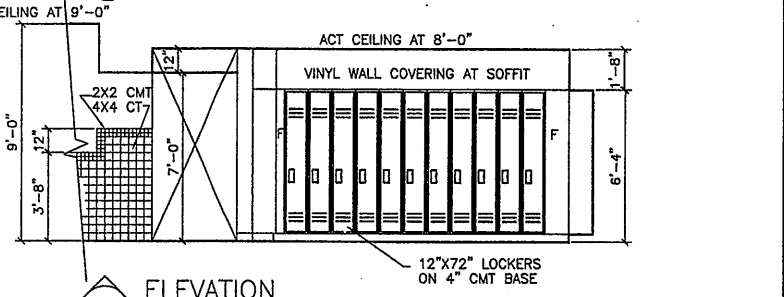
1 ELEVATIONS
1/4"=1'-0"



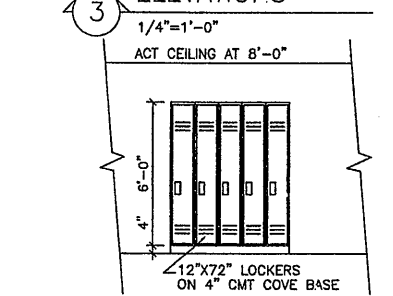
2 ELEVATION
1/4"=1'-0"



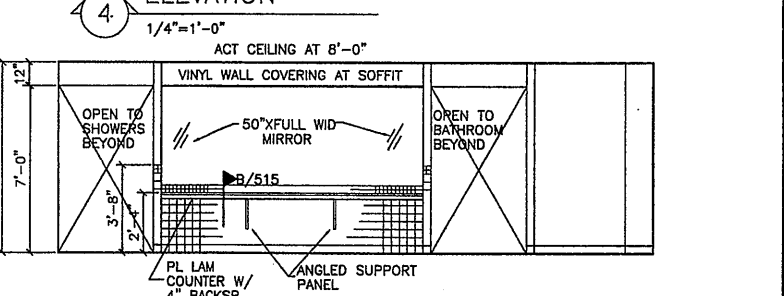
3 ELEVATIONS
1/4"=1'-0"



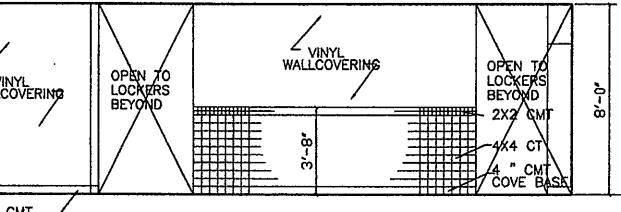
4 ELEVATION
1/4"=1'-0"



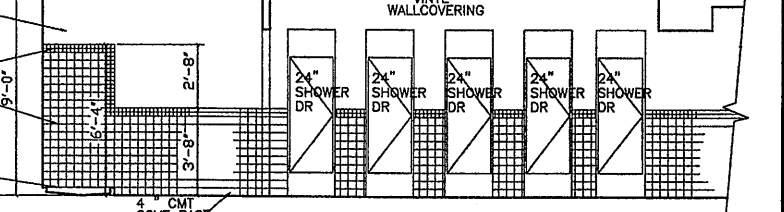
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1/4"=1'-0"



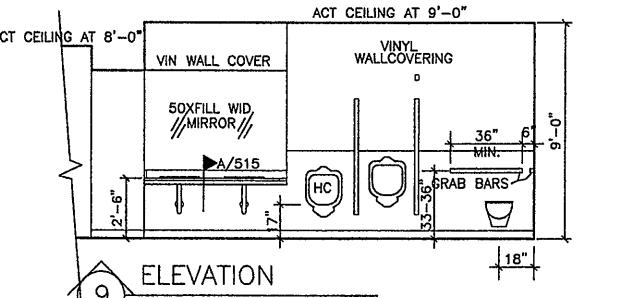
6 ELEVATIONS
1/4"=1'-0"



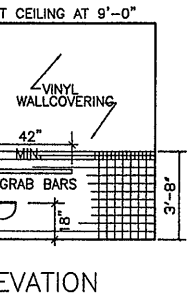
7 ELEVATIONS
1/4"=1'-0"



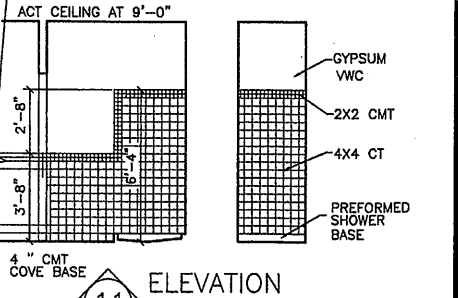
8 ELEVATION
1/4"=1'-0"



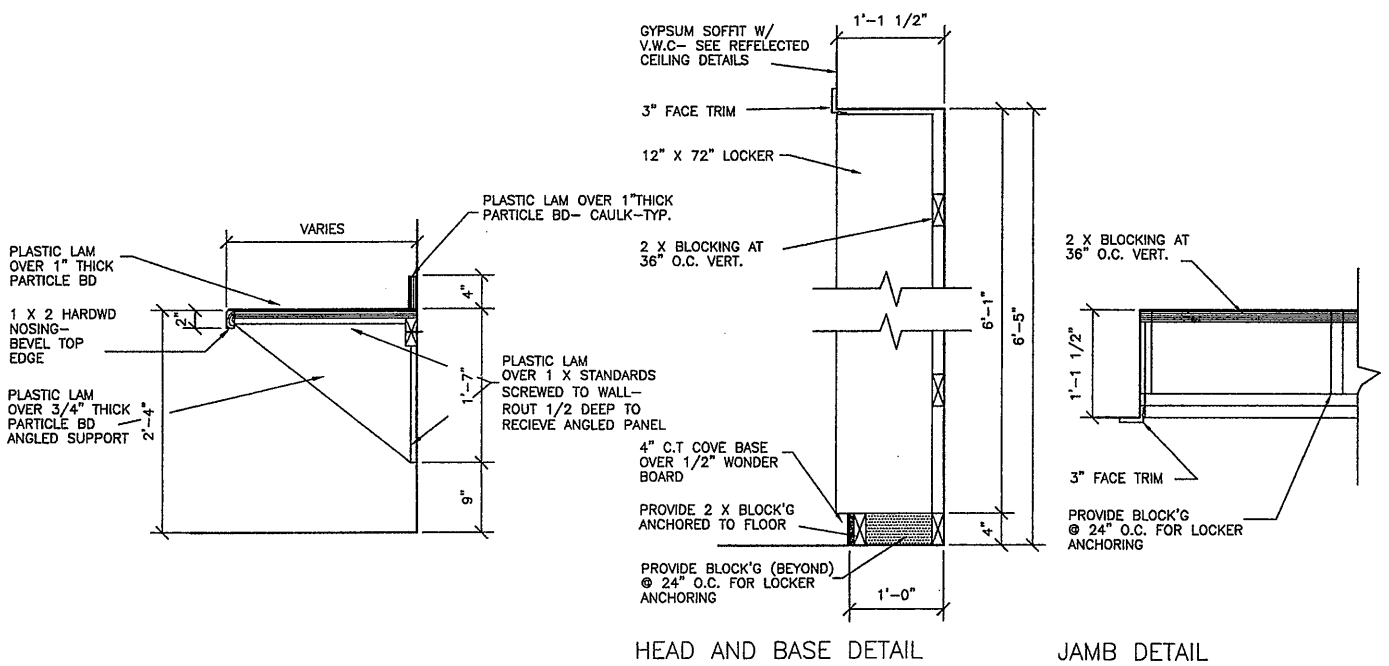
9 ELEVATION
1/4"=1'-0"



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



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



A COUNTER DETAIL
1"=1'-0"

B LOCKER DETAIL
1"=1'-0"

Layer: ON=*, OFF=*REF*
0659X502
07/17/00 OBG JAS
EEA-VERT

1/4"=1'-0"	0	4	8
1"=1'-0"	0	1	2

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0	4/20/01	ISSUED FOR APPROVAL	SAW
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SYRACUSE, NEW YORK

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317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

OPERATIONS CENTER AND CHEMICAL BUILDING-C
PLANS AND DETAILS
ARCHITECTURAL

File Number
00659
Date
APRIL 2001
A-515

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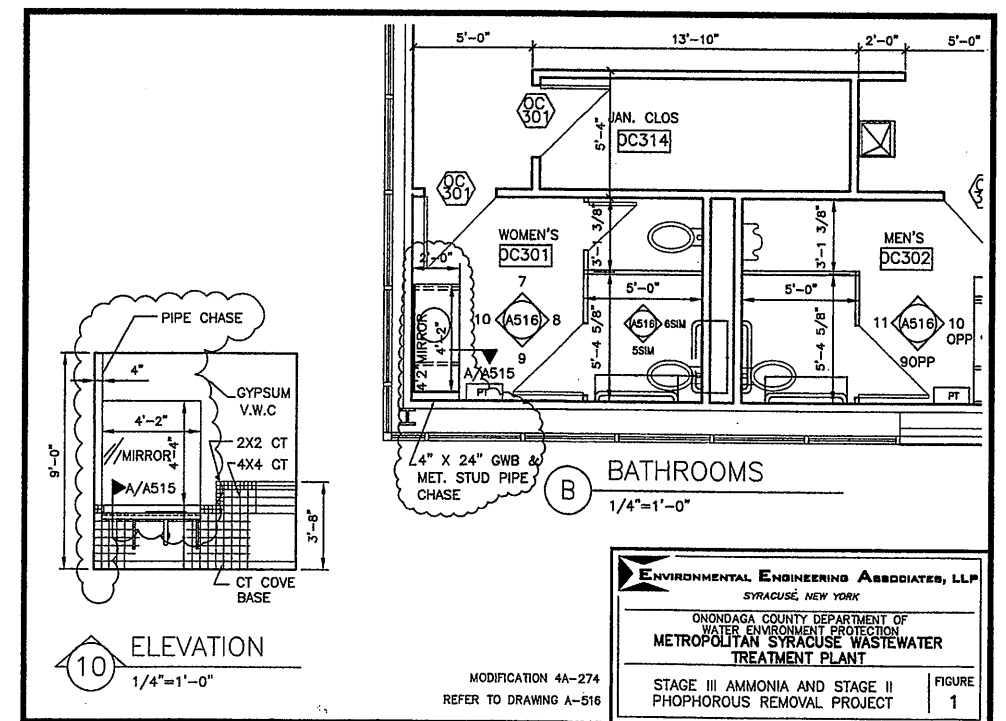


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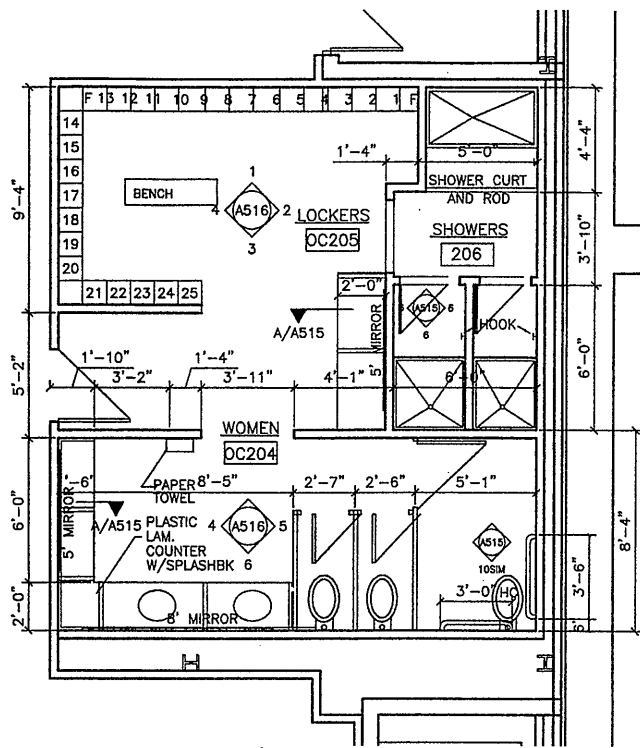
DATE: 12-1-05 PER: TWS

REF. SHEET A-516

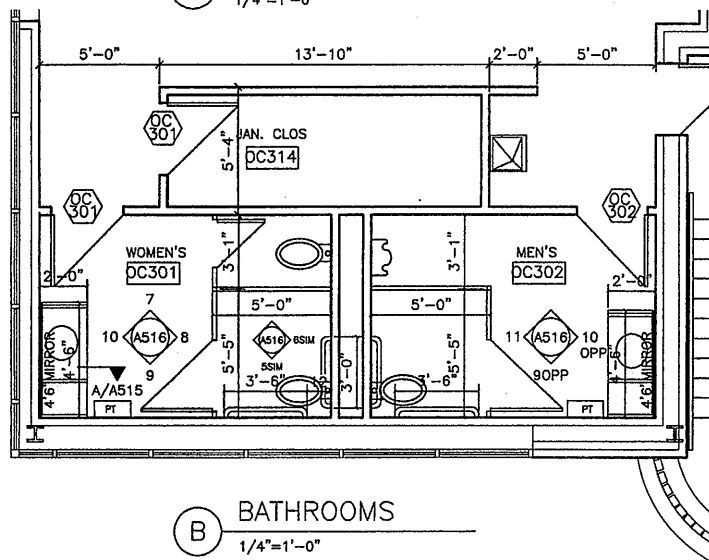


ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP SYRACUSE, NEW YORK	
ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT	
STAGE III AMMONIA AND STAGE II PHOSPHOROUS REMOVAL PROJECT	FIGURE 1

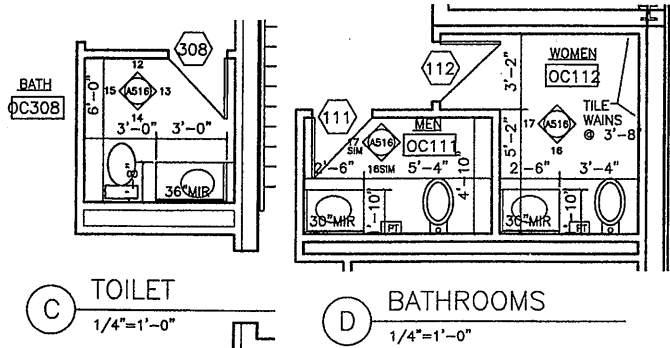
MODIFICATION 4A-274
REFER TO DRAWING A-516



A WOMEN'S LOCKER ROOM
1/4"=1'-0"

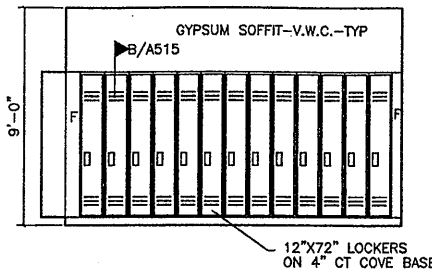


B BATHROOMS
1/4"=1'-0"

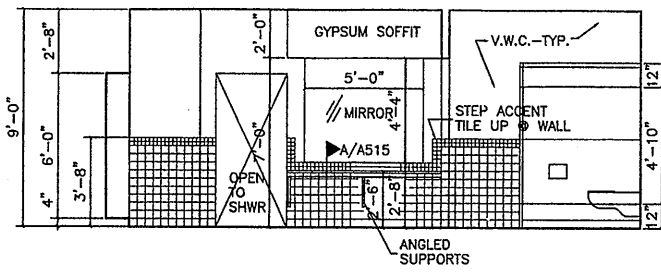


C TOILET
1/4"=1'-0"

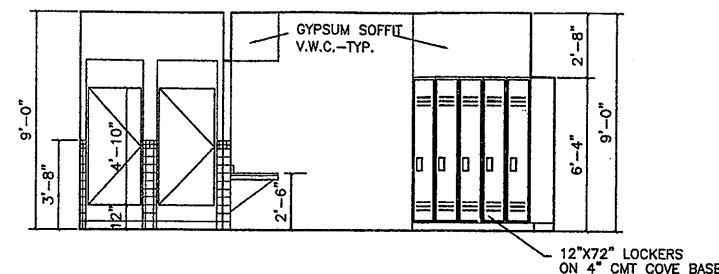
D BATHROOMS
1/4"=1'-0"



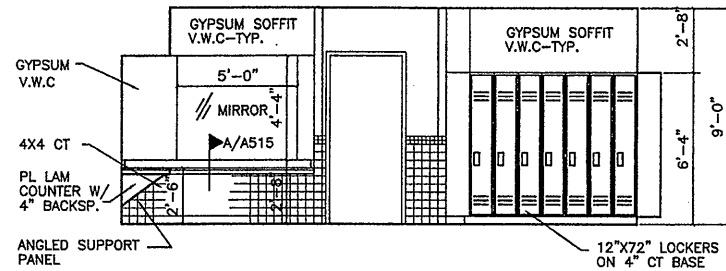
1 ELEVATIONS
1/4"=1'-0"



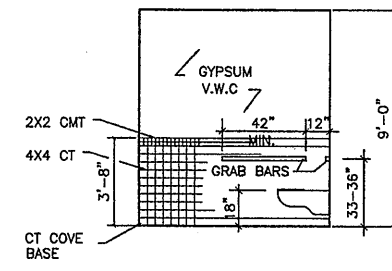
2 ELEVATION
1/4"=1'-0"



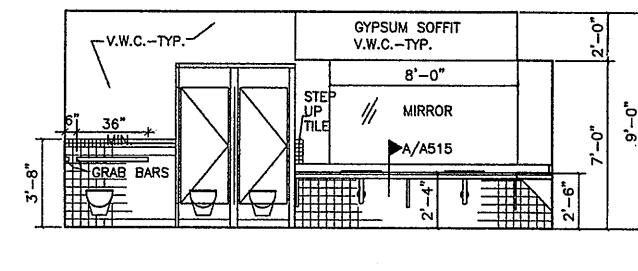
3 ELEVATION
1/4"=1'-0"



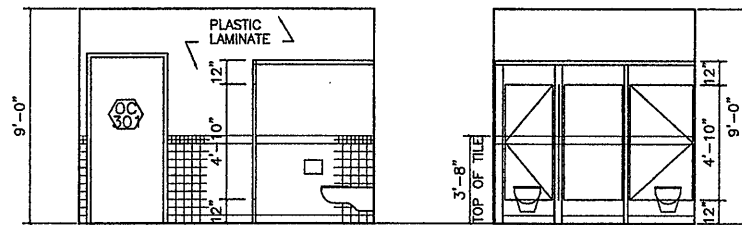
4 ELEVATION
1/4"=1'-0"



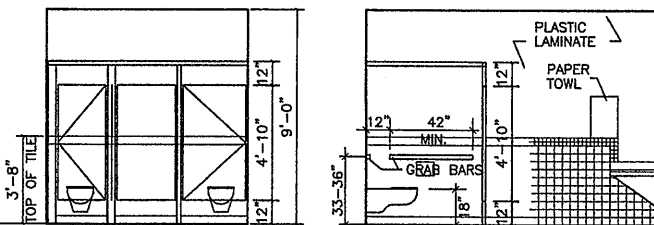
5 ELEVATION
1/4"=1'-0"



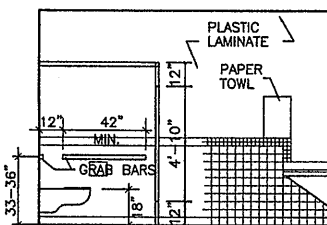
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1/4"=1'-0"



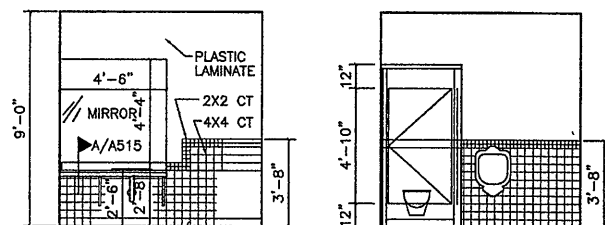
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1/4"=1'-0"



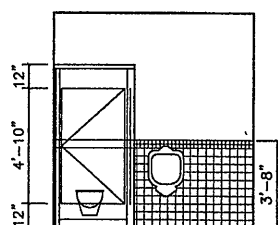
8 ELEVATION
1/4"=1'-0"



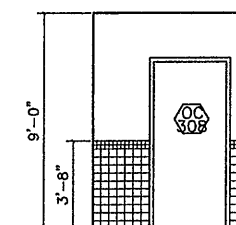
9 ELEVATION
1/4"=1'-0"



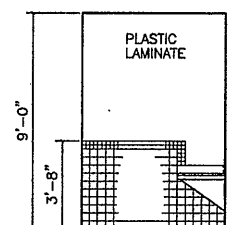
10 ELEVATION
1/4"=1'-0"



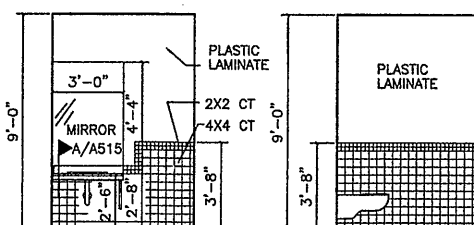
11 ELEVATION
1/4"=1'-0"



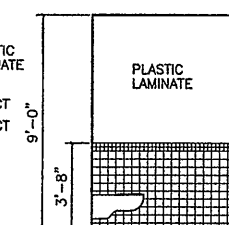
12 ELEVATION
1/4"=1'-0"



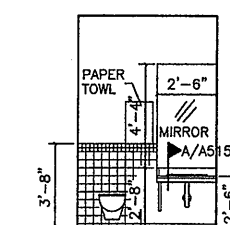
13 ELEVATION
1/4"=1'-0"



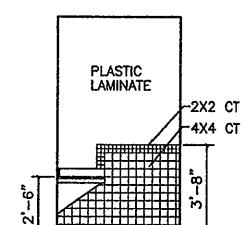
14 ELEVATION
1/4"=1'-0"



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



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



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

NOTES

- PAPER TOWEL HOLDER BY BOBRICK B-5262 MATRIX, ABS PLASTIC COLOR TO BE GREY. HOLDS 400 C-FOLD TOWELS- 11 1/2W X 15 1/2H X 4 3/4D
- SOAP DISPENSER BY BOBRICK B-5050 MATRIX, ABS PLASTIC COLOR TO BE GREY. HOLDS 50 FL. OZ. 6W X 8 1/8H X 4D
- TOILET PAPER HOLDER BY BOBRICK B-28407 DURALIN W/ SOLID PHENOLIC SHELF, COLOR TO MATCH PARTITION-HOLDS TWO (2) ROLLS 16W X 4 3/16H X 5 11/16D
- SHOWER CURTAIN ROD BY BOBRICK B-6047, TYPE 304 STAINLESS STEEL, 18 GA., 1 1/4" DIA.
- SHOWER CURTAIN BY BOBRICK 204-2, WHITE VINYL, .008 THICK, ANTIBACTERIAL AND FLAME RETARDANT W/ NICKLE PLATED GROMMETS
-WITH-
204-1 TYPE 304 STAINLESS STEEL HOOKS SEVEN (7) REQUIRED
- GRAB BARS BY BOBRICK B-6806 SERIES, 1 1/4" DIA. SATIN FINISH STAINLESS STEEL, 18 GA. WITH CONCEALED MOUNTING. SIZE AS INDICATED
- MIRRORS TO BE NO.1 QUALITY 1/4" GLASS MIRROR ELECTROLYTICALLY COPPER PLATED. MIRROR EDGES PROTECTED W/ PLASTIC FILLER STRIPS TO PREVENT CHIPPING. FRAME MIRRORS WITH ROLL FORMED 3/4 X 3/4 TYPE 304 STAINLESS STEEL ANGLE WITH SATIN FINISH
- TOILET PARTITIONS AS SPECIFIED. COLORS AS SELECT FLOOR MOUNTED W/ BRACED HEADRAL, FINISH TO BE BAKED ENAMEL. PROVIDE ALL REQ'D ASSOCIATED HARDWARE. PROVIDE ONE (1) STAINLESS STEEL HOOK ON STALL SIDE OF DOOR MOUNTED AT 62" A.F.F.
- PROVIDE TWO (2) STAINLESS STEEL HOOKS AT EA. SHOWER STALL- ONE MOUNTED ON STALL SIDE OF DOOR AT 62" A.F.F AND ONE MOUNTED ON WALL AT 62" A.F.F.

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: _____ PER: _____

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

Layer: ON=*, OFF=*REF*
0569X501/0659X502/0659X503
07/17/00 OBG JAS
EEA-VERT

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

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	10/31/05	RECORD DRAWING	TWS

In charge of ___ SAW ___
Designed by ___ SAW ___
Drawn by ___ SAW ___
Checked by ___ SAW ___

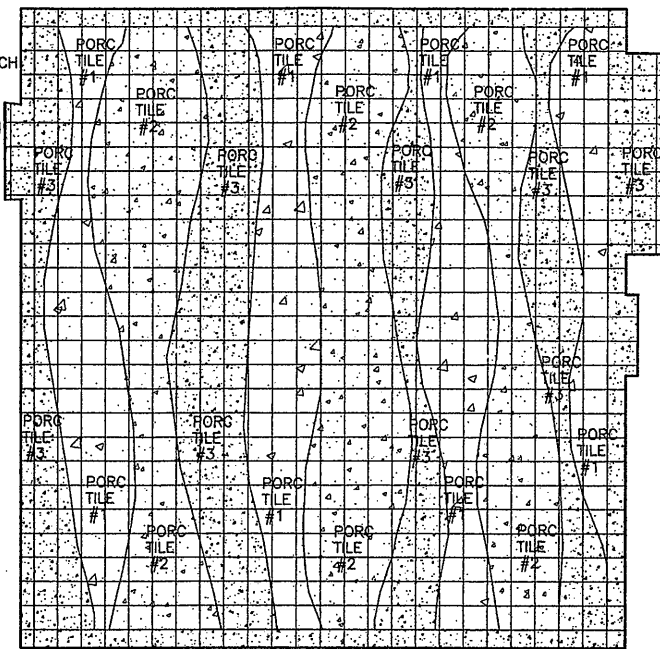
ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP
SYRACUSE, NEW YORK

GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

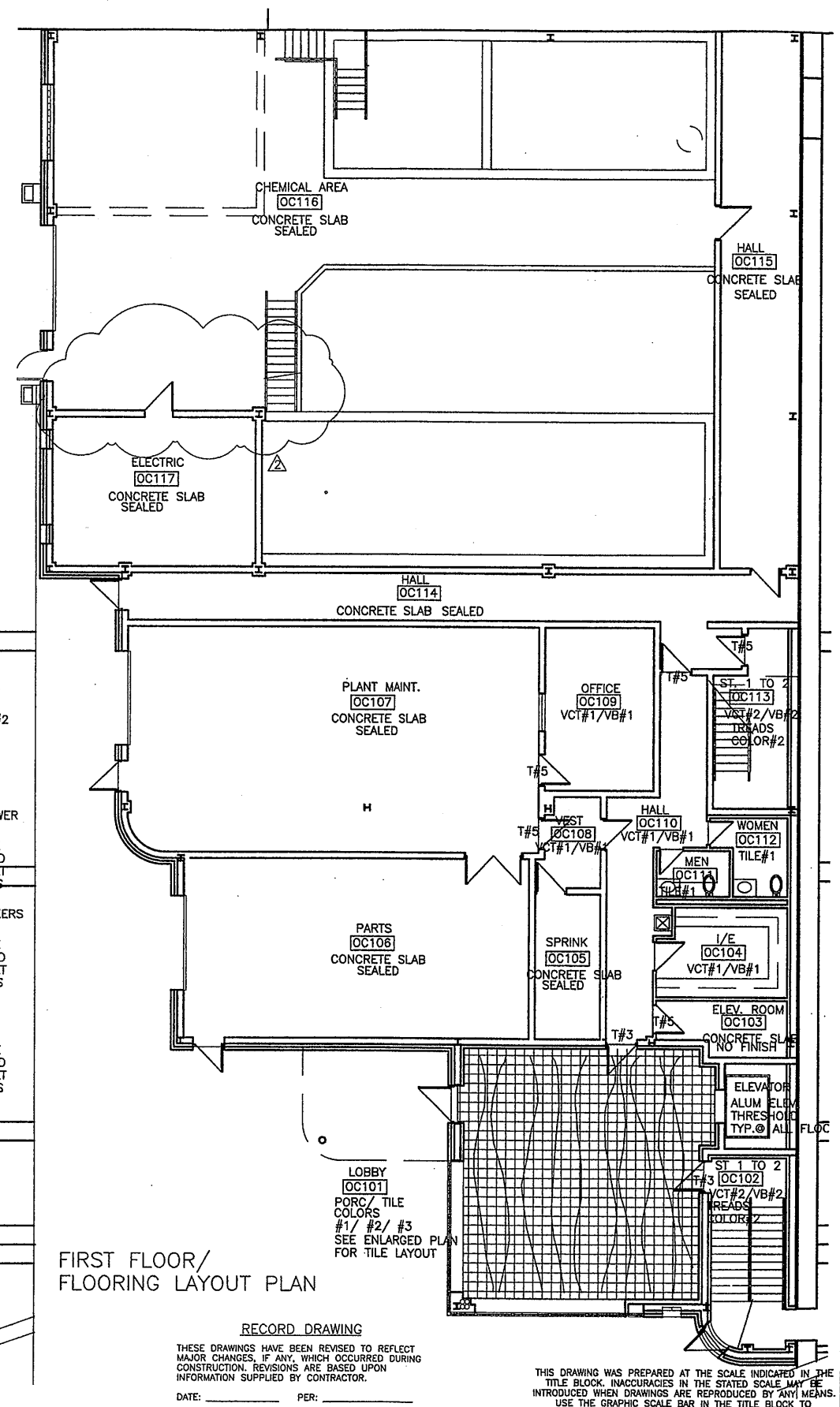
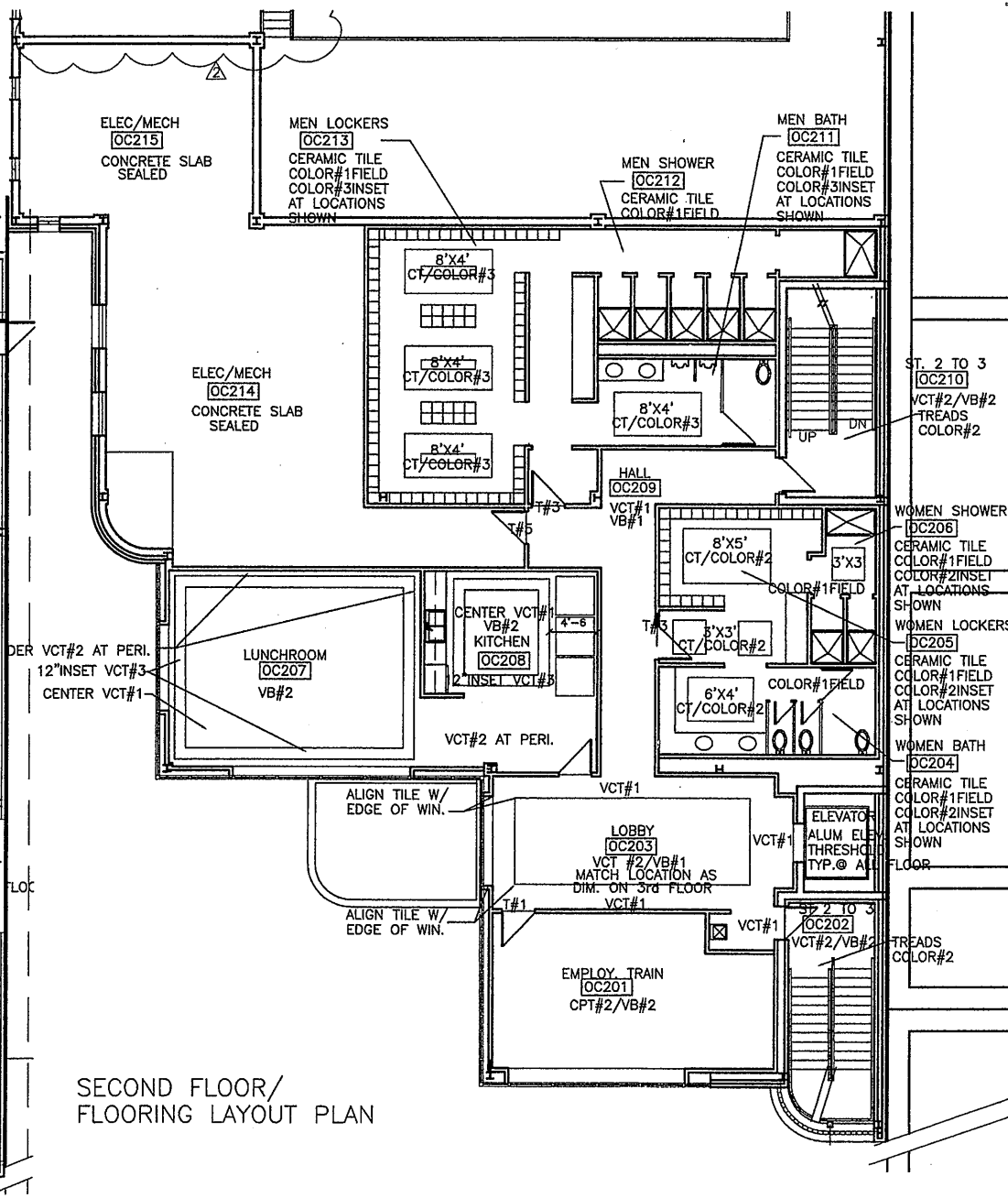
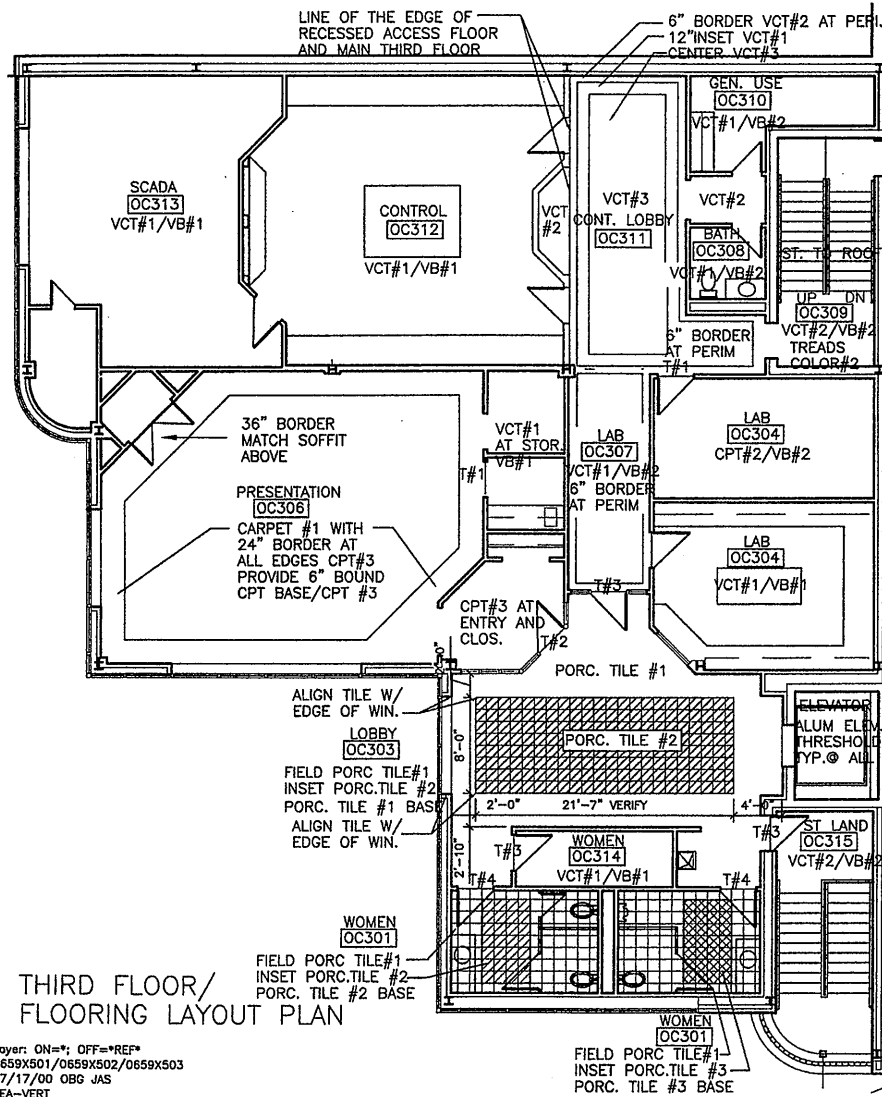
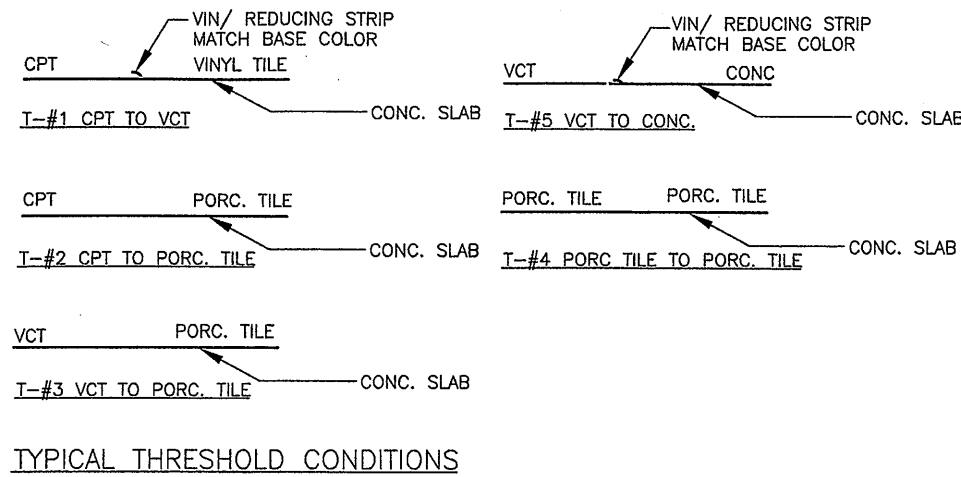
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
OPERATIONS CENTER AND CHEMICAL BUILDING-C
PLANS AND DETAILS
ARCHITECTURAL

File Number
00659
Date
APRIL 2001
A-516

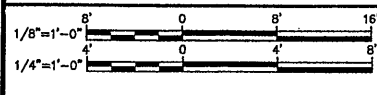
WORK PATTERN IN FULL TILES PROVIDE FOR BORDER AT EACH SIDE IN COLOR #3 FOR DIMENSION VARIABLE FROM WHOLE TILE SIZE.



LOBBY TILE LAYOUT
SCALE: 1/4" = 1'-0"

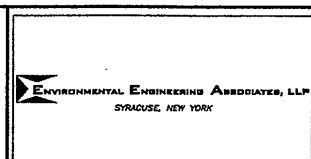


Layer: ON=; OFF=REF*
0659X01/0659X02/0659X03
07/17/00 OBG JAS
EEA-VERT



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	3/22/01	REVISED FOR MODIFICATION 4A-004	SAW
3	10/31/05	RECORD DRAWING	TWS

In charge of SAW
Designed by SAW
Drawn by SAW
Checked by SAW



GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGSWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1845

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
**OPERATIONS CENTER AND CHEMICAL BUILDING-C
FLOOR FINISH LAYOUTS**
ARCHITECTURAL

File Number 00659
Date APRIL 2001
A-517

RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: _____ PER: _____

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

ROOM FINISH SCHEDULE													
RM #	ROOM NAME	FLOOR		BASE		WALLS				CEILING			NOTES
		MAT	FIN	MAT	FIN	N	S	E	W	MAT	FIN	HT	
SECOND EFFL. PUMP BUILDING													
SE 101	ELECTRIC ROOM	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	STEEL	----	----	
SE 102	PUMP ROOM	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	STEEL	----	----	
BAF BUILDING													
BAF 100	STAIR WELL #1	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	STEEL	PT	----	
BAF 101	BLOWER ROOM	CONC.	SEAL	CMU	PT	CMU/PT	CON/---	CON/---	CON/---	CMU/PT	STEEL	PT	----
BAF 102	ELECTRIC ROOM	CONC.	SEAL	CMU	PT	CMU/PT	CON/---	CON/---	CON/---	CMU/PT	STEEL	PT	----
BAF 103	CORRIDOR	CONC.	SEAL	CMU	PT	CON/---	CON/---	CON/---	CON/---	CMU/PT	STEEL	PT	----
BAF 104	STAIR WELL #2	CONC.	SEAL	CMU	PT	CON/---	CON/---	CON/---	CON/---	CMU/PT	STEEL	PT	----
BAF 200	STAIR WELL #1	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	STEEL	PT	----	
BAF 201	CORRIDOR	CONC.	SEAL	CMU	PT	CMU/PT	CON/---	CON/---	CON/---	CMU/PT	STEEL	PT	----
BAF 202	MECH. ROOM	CONC.	SEAL	CMU	PT	CON/---	CON/---	CON/---	CON/---	CMU/PT	STEEL	PT	----
BAF 203	PLENUM ROOM	CONC.	SEAL	CMU	PT	CON/---	CON/---	CON/---	CON/---	CMU/PT	STEEL	PT	----
BAF 204	STAIR WELL #2	CONC.	SEAL	CMU	PT	CON/---	CON/---	CON/---	CON/---	CMU/PT	STEEL	PT	----
BAF 300	STAIR WELL #2	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	STEEL	PT	----	
HRFS BUILDING													
HR 101	SOUTH ENCLOS.	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
HR 102	NORTH ENCLOS.	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
HR 103	STAIR TO 1st	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
U/V DIS. AND FLUME BUILDING													
UV 201	VESTIBULE TO O.C.	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
UV 202	WALKWAY	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
UV 203	FLUME	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
UV 204	STORAGE	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
UV 205	ELECTRIC	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
UV 206	U.V.	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
UV 207	STAIR #1	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	
UV 208	STAIR #2	CONC.	SEAL	CMU	PT	CMU/PT	CMU/PT	CMU/PT	CMU/PT	P.CONC	----	----	

ROOM FINISH SCHEDULE													
RM #	ROOM NAME	FLOOR		BASE		WALLS				CEILING			NOTES
		MAT	FIN	MAT	FIN	N	S	E	W	MAT	FIN	HT	
OPERATIONS CENTER/CHEM BLDG C													
FIRST FLOOR													
OC 101	LOBBY	TILE-1	1/2/3	WOOD	STAIN	PT-1	PT-1	PT-1	PT-1	ACT	1/2	11'9/6"	
OC 102	STAIR 1st TO 2nd	VCT	2	VB	2	PT-2	PT-2	PT-2	PT-2	STRUCT	PT-6	VARIES	
OC 103	ELEV. MACH. RM	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	GWB	PT-6	9'-0"	
OC 104	I/E ROOM	VCT	1	VB	1	PT-3	PT-3	PT-3	PT-3	ACT	3	9'-0"	
OC 105	SPRINKLER RM	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	STRUCT	PT-6	STRUCT	
OC 106	PARTS	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	STRUCT	PT-6	STRUCT	
OC 107	PLANT MAINT.	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	STRUCT	PT-6	STRUCT	
OC 108	VESTIBULE	VCT	1	VB	1	PT-3	PT-3	PT-3	PT-3	ACT	3	9'-0"	
OC 109	OFFICE	VCT	1	VB	1	PT-3	PT-3	PT-3	PT-3	ACT	3	9'-0"	
OC 110	HALL	VCT	1	VB	1	PT-3	PT-3	PT-3	PT-3	ACT	3	9'-0"	
OC 111	MEN'S ROOM	TILE-2	1	CT	1/3	PT-3	PT-3	PT-3	PT-3	GWB	PT-5	9'-0"	
OC 112	WOMEN'S ROOM	TILE-2	1	CT	1/2	PT-3	PT-3	PT-3	PT-3	GWB	PT-5	9'-0"	
OC 113	STAIR 1st TO 2nd	VCT	2	VB	2	PT-2	PT-2	PT-2	PT-2	STRUCT	PT-6	VARIES	
OC 114	HALL	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	STRUCT	PT-6	STRUCT	
OC 115	HALL	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	STRUCT	PT-6	STRUCT	
OC 116	CHEMICAL STOR	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	STRUCT	PT-6	STRUCT	
OC 117	ELECTRIC ROOM	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	STRUCT	PT-6	STRUCT	
SECOND FLOOR													
OC 201	EMPLOY. TRAINING	CPT-2	1	VB	2	PT-3	PT-3	PT-3	PT-3	ACT	2	9'-0"	
OC 202	STAIRS 2nd TO 3rd	VCT	2	VB	2	PT-2	PT-2	PT-2	PT-2	STRUCT	PT-6	STRUCT	
OC 203	LOBBY	VCT	1/2	VB	2	PT-1	PT-1	PT-1	PT-1	ACT	1	9'-0"	
OC 204	WOMEN'S ROOM	TILE-2	1/2	CT	2	VWC-1	VWC-1	VWC-1	VWC-1	ACT	4	9'-0"	
OC 205	WOMEN'S LOCKERS	TILE-2	1/2	CT	2	VWC-1	VWC-1	VWC-1	VWC-1	ACT	4	9'-0"	
OC 206	WOMEN'S SHOWERS	TILE-2	1/2	CT	2	PT-3	PT-3	PT-3	PT-3	GWB	PT-5	9'-0"	
OC 207	EMPLOY. LUNCHRM	VCT	1/2/3	VB	2	PT-3	PT-3	PT-3	PT-3	ACT	2	9'-0"	
OC 208	VENDING	VCT	1/2/3	VB	2	PT-3	PT-3	PT-3	PT-3	ACT	2	9'-0"	
OC 209	HALL	VCT	1	VB	1	PT-1	PT-1	PT-1	PT-1	ACT	1	9'-0"	
OC 210	STAIRS 2nd TO 3rd	VCT	2	VB	2	PT-2	PT-2	PT-2	PT-2	STRUCT	PT-6	VARIES	
OC 211	MEN'S ROOM	TILE 2	1/3	CT	3	VWC-2	VWC-2	VWC-2	VWC-2	ACT	4	9'-0"	
OC 212	MEN'S SHOWERS	TILE 2	1/3	CT	3	PT-3	PT-3	PT-3	PT-3	GWB	PT-5	9'-0"	
OC 213	MEN'S LOCKERS	TILE 2	1/3	CT	3	VWC-2	VWC-2	VWC-2	VWC-2	ACT	4	9'-0"	
OC 214	ELEC./MECH.	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	STRUCT	PT-6	STRUCT	
OC 215	ELEC./MECH.	CONC.	SEAL	CONC.	PT-3	PT-3	PT-3	PT-3	PT-3	STRUCT	PT-6	STRUCT	
THIRD FLOOR													
OC 301	WOMEN'S ROOM	TILE-1	1/2	TILE-1	2	PT-3	PT-3	PT-3	PT-3	ACT	2	9'-0"	
OC 302	MEN'S ROOM	TILE-1	1/3	TILE-1	3	PT-3	PT-3	PT-3	PT-3	ACT	2	9'-0"	
OC 303	LOBBY	TILE-1	1/2/3	TILE-1	1	PT-1	PT-1	PT-1	PT-1	ACT	1	9'-0"	
OC 304	LAB	VCT	1	VB	1	PT-3	PT-3	PT-3	PT-3	ACT	2	9'-0"	
OC 305	OFFICE	CPT-2	1	VB	2	PT-3	PT-3	PT-3	PT-3	ACT	2	9'-0"	
OC 306	PRESENT. ROOM	CPT1/3	1/1	WD	STAIN	VWC-3	VWC-3	VWC-3	VWC-3	ACT	5	9'-0"	
OC 307	HALL	VCT	1/2	VB	2	PT-1	PT-1	PT-1	PT-1	ACT	1	9'-0"	
OC 308	BATH	VCT	1	VB	2	PT-3	PT-3	PT-3	PT-3	GWB	PT-5	9'-0"	
OC 309	STAIR 3rd TO ROOF	VCT	2	VB	2	PT-2	PT-2	PT-2	PT-2	STRUCT	PT-6	STRUCT	
OC 310	GENERAL USE	VCT	1	VB	2	PT-3	PT-3	PT-3	PT-3	ACT	3	9'-0"	
OC 311	CONTROL LOBBY	VCT	1/2/3	VB	2	PT-1	PT-1	PT-1	PT-1	ACT	1	9'-0"	
OC 312	CONTROL ROOM	----	----	VB	1	PT-1	PT-1	PT-1	PT-1	ACT	2	9'-0"	
OC 313	SCADA	----	----	VB	1	PT-3	PT-3	PT-3	PT-3	ACT	3	9'-0"	
OC 314	JAN. CLOS	VCT	1	VB	1	PT-3	PT-3	PT-3	PT-3	ACT	3	9'-0"	
OC 315	STAIR LAND/3rd FL	VCT	1	VB	2	PT-2	PT-2	PT-2	PT-2	GWB	PT-6	10'-0"	

FINISH LEGEND

FLOORING

- CARPET #1- BLUE RIDGE CARPETS-REGIS SQUARE(R100) PATTERN CUT PILE COLOR # 9422 SMOKE BLUE
- CARPET #2- BLUE RIDGE CARPETS- HARVEST.(H310) MULTILEVEL LOOP COLOR # 1150 REFLECTION
- CARPET #3- BLUE RIDGE CARPETS- HORIZON (H610) CUT PILE/ BORDER CARPET COLOR # 9907 SEPIA

VINYL COMPOSITION TILE

- VCT #1- MANNINGTON COMMERCIAL- INSPIRATIONS 12" X 12" X 1/8" VCT COLOR # 401 WHITE MULTIFLEC
- VCT #2- MANNINGTON COMMERCIAL- DESIGNER ESSENTIALS 12" X 12" X 1/8" VCT COLOR # 220 HORIZON
- VCT #3- MANNINGTON COMMERCIAL- DESIGNER ESSENTIALS 12" X 12" X 1/8" VCT COLOR # 258 REDWOOD

PORCELAIN TILE

- TILE 1- BY CROSSVILLE CERAMICS 12" X 12" TILE COLOR # 1- #A815 STEEL BLUE COLOR # 2- #A583 WINDSURF COLOR # 3- #A580 OCEANA

CERAMIC TILE

- TILE2- BY WINBURN 2" X 2" TILE COLOR # 1- #0140 LT GRAY COLOR # 2- RUST RANGE COLOR # 3- INK

VINYL STAIR TREADS

- TREADS BY MERCER TO MATCH VINYL BASE SQUARE PROFILE / SQUARE NOSE EDGE COLOR # 506 TAHOE

BASE

- VINYL BASE VINYL COVE BASE 4" HIGH COLOR #1- 663 SKY GRAY (GRAY) COLOR #2- 506 TAHOE (BLUE) COLOR #3- 622 ROSE CLAY (CLAY)

WOOD BASE

- 5/4 X 6 OAK BASE/ EASE TOP EDGE STAINED FINISH COLOR #225- RED MAHOGANY BY MINWAX

CERAMIC TILE

- COVE BASE 4" / SIMILAR TO US CERAMIC TILE CO COLOR #2- BURGANDY COLOR #3- DENIM

WALLS

- CERAMIC TILE 4-1/4" X 4-1/4" AND 2" X 2" ALL TILE COLORS BY US CERAMICS TILE CO COLOR #1- U-760 STERLING (GRAY) COLOR #2- U-721 DENIM (BLUE) COLOR #3- U-736 BURGANDY (BURGANDY)

PAINT

- MULTI-FLEC COLOR PAINT SYSTEM SIMILAR TO ZOLOTONE OR POLYMYX PAINTS PT-1 COLOR # 43-28380 (MAIN AREA WALLS) PT-2 COLOR # 43-28010 (STAIR TOWER WALLS)
- ALL COLOR NUMBERS BY] BENJAMIN MOORE PAINTS COORDINATE GLOSS/ SHEEN REQUIRED AT EACH LOCATION PT-3 COLOR # 7071 SHERWIN WILLIAMS GREY SCREEN PT-4 COLOR # XXXX (OMITTED) PT-5 COLOR CEILING WHITE

WALL COVERING

- BY VICRTEX WALLCOVERINGS/ SASSO PATTERN #SA21 VWC-1 COLOR MEDITERANEAN VWC-2 COLOR SILVER SPUR
- ACOUSTIC WALLCOVERING- AT LOCATIONS INDICATED BY GFI EXECUWALL II/ 18 OZ/SY WALL CARPET COLOR- MALLARD BLUE # 19080-36

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR. DATE: _____ PER: _____ THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

MISCELLANEOUS FINISHES

- DOOR / BASE AND SILL STAIN** SIMILAR TO CABOT- COLOR RED MAHOGANY
- ALL TOILET COMPARTMENT/ SCREENS AND SHOWER DOORS** COLOR TO BE SIMILAR TO METPAR- COLOR #700 DAWN GREY
- LAMINATE COLORS** ALL COLOR NUMBERS AND NAMES BY WILSONART LAMINATES LAM #1 DOVE GREY D92-60 LAM #2 NAVY LEGACY 4651-60 LAM #3 HEATHER LEGACY 4662-60

CEILING

- ACOUSTIC CEILING TILE** ALL TILE SELECTED BY UNITED STATES GYPSUM ALL GRID AND COLORS TO BE WHITE UNLESS INDICATED SEE REFLECTED CEILING PLANS
- ACT #1- FROST PEDESTAL 4- #404
- ACT #2- FROST- #418
- ACT #3- ASTRO CLIMAPLUS #8225
- ACT #4- SHEETROCK VINYL FACED CEILING- 3260
- ACT #5- SILENT SQUARES PANEL- #7025 MAHARAM TEK WALL 1000- 164 SANDRIFT GREY GRID COLOR TO BE SELECTED

DRYWALL- ALL CEIL. AT BATH AND SHOWER AREAS TO BE WATER RESISTANT GWB

Layer: ON=*, OFF=*REF* 07/17/00 086 JAS EEA-VERT

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW

DOOR SCHEDULE

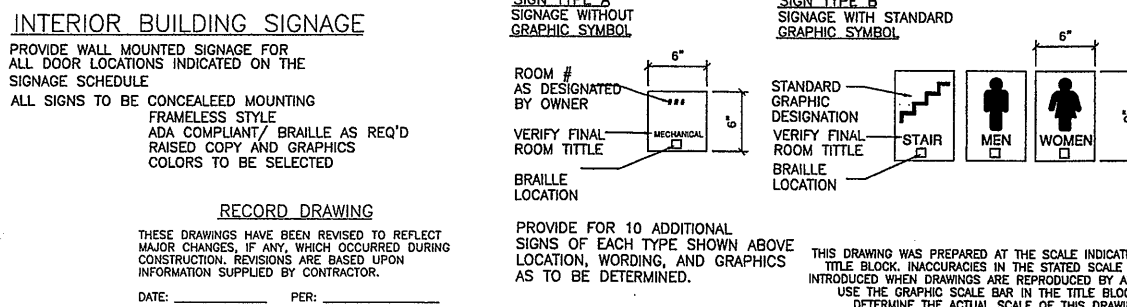
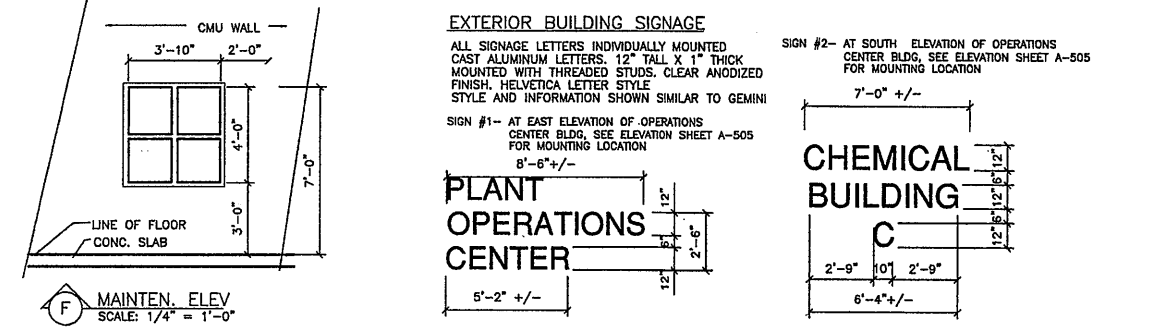
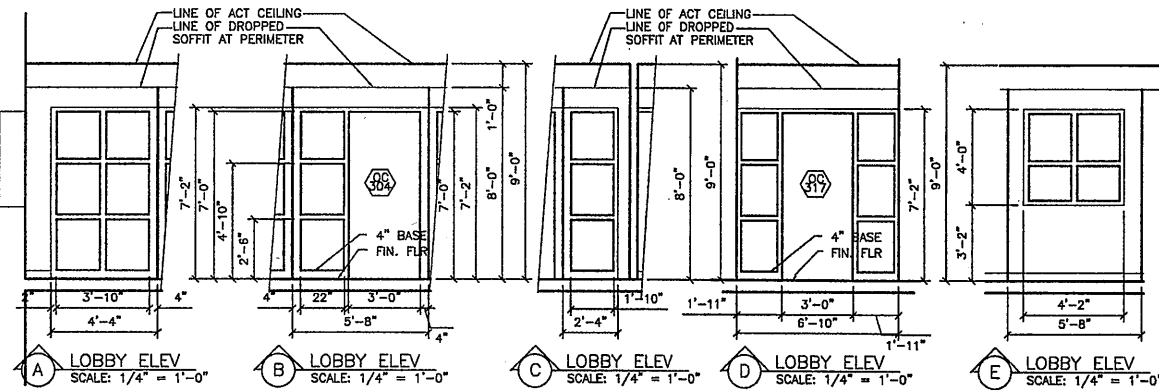
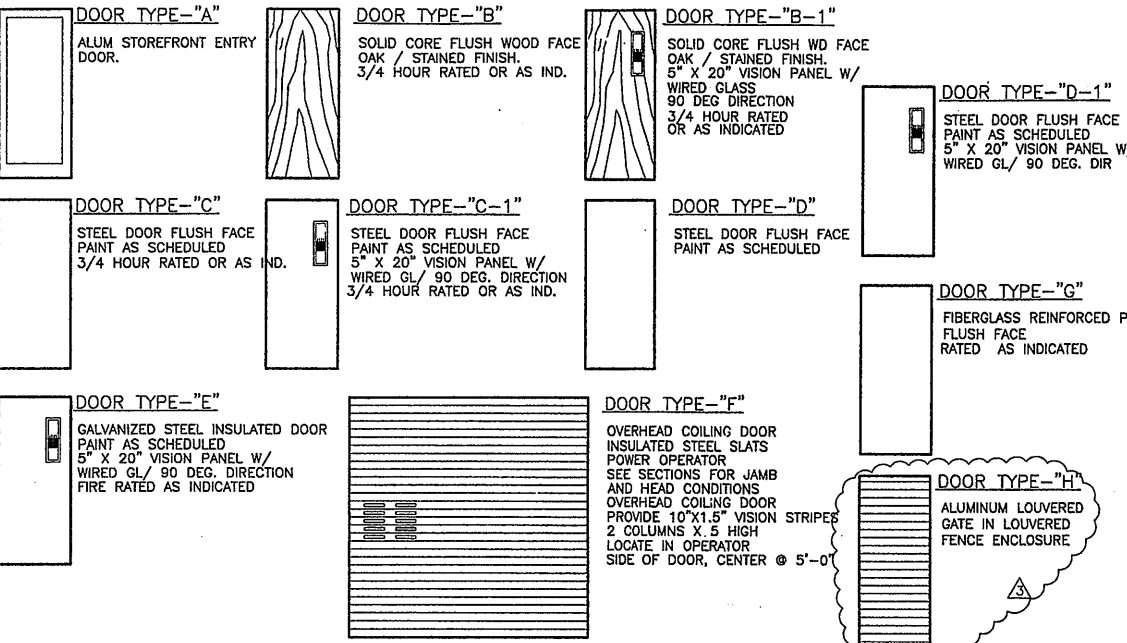
DOOR #	DOOR			FRAME		HRD WR	LABEL	NOTES
	TYPE	WIDTH	HEIGHT	THICK	MAT			
OPERATIONS CENTER								
FIRST FLOOR								
OC 101	A	3'-0"	7'-0"	1-3/4"	ALUM	ALUM	13	---
OC 102	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/8	6	1 1/2
OC 103	A	3'-0"	6'-8"	1-3/4"	ALUM	ALUM	13	---
OC 104	---	---	---	---	---	---	---	---
OC 105	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/9	1	3/4
OC 106	C	3'-0"	7'-0"	1-3/4"	HM	P-9/9	4	3/4
OC 107	C-1	3'-0"	7'-0"	1-3/4"	HM	P-9/9	3	3/4
OC 108	D	3'-0"	7'-0"	1-3/4"	HM	P-9/9	4	---
OC 109	E	3'-0"	7'-0"	1-3/4"	HM/GLV	P-9/10	11	---
OC 110	F	10'-0"	10'-0"	1-3/4"	ALUM	ANOD	---	---
OC 111	D(2)	3'-0"	7'-0"	1-3/4"	HM	P-9/9	1	---
OC 112	D-1	3'-0"	7'-0"	1-3/4"	HM	P-9/9	1	---
OC 113	C-1	3'-0"	7'-0"	1-3/4"	HM	P-9/9	7	3/4
OC 114	C-1	3'-0"	7'-0"	1-3/4"	HM	P-9/9	3	3/4
OC 115	E	3'-0"	7'-0"	1-3/4"	HM/GLV	P-9/10	11	---
OC 116	F	10'-0"	10'-0"	1-3/4"	ALUM	ANOD	---	---
OC 117	E	3'-0"	7'-0"	1-3/4"	HM/GLV	P-9/10	14	---
OC 118	C	2'-6"	7'-0"	1-3/4"	HM	P-9/9	2	3/4
OC 119	C	2'-6"	7'-0"	1-3/4"	HM	P-9/9	2	3/4
OC 120	C-1	3'-0"	7'-0"	1-3/4"	HM	P-9/9	1	1 1/2
OC 121	C-1	3'-0"	7'-0"	1-3/4"	HM	P-8/9	6	1 1/2
OC 122	C-1	3'-0"	7'-0"	1-3/4"	HM	P-9/9	1	1 1/2
OC 123	G	3'-0"	7'-0"	1-3/4"	ST.STL	P-8/9	3	1 1/2
OC 124	F	12'-0"	12'-0"	1-3/4"	ALUM	ANOD	---	---
OC 125	G	3'-0"	7'-0"	1-3/4"	ST.STL	P-9/10	11	---
OC 126	G	3'-0"	7'-0"	1-3/4"	ST.STL	P-9/9	4	1 1/2
SECOND FLOOR								
OC 201	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/7	3	3/4
OC 202	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/8	6	1 1/2
OC 203	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/7	3	3/4
OC 204	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	1	3/4
OC 205	C	3'-0"	7'-0"	1-3/4"	HM	P-7/7	4	3/4
OC 206	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	1	3/4
OC 207	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/8	6	1 1/2
OC 208	G	3'-0"	7'-0"	1-3/4"	ST.STL	P-9/9	4A	1 1/2
THIRD FLOOR								
OC 301	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	1	3/4
OC 302	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	1	3/4
OC 303	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/8	6	1 1/2
OC 304	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	3	3/4
OC 305	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/7	3	3/4
OC 306	B	2'-2"-0"	7'-0"	1-3/4"	GWB	---	9	---
OC 307	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/7	5	3/4
OC 308	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/8	6	1 1/2
OC 309	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	2	3/4
OC 310	B-1	3'-0"	7'-0"	1-3/4"	HM	P-7/7	1	3/4
OC 311	E	3'-0"	7'-0"	1-3/4"	HM/GLV	P-8/10	11	1 1/2
OC 312	GATE	3'-0"	3'-0"	1-3/4"	LAM	---	10	---
OC 313	GATE	3'-0"	3'-0"	1-3/4"	LAM	---	10	---
OC 314	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	3	3/4
OC 315	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	8	---
OC 316	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	3	3/4
OC 317	B	3'-0"	7'-0"	1-3/4"	HM	P-7/7	3	3/4
OC 318	C	2'-0"	7'-0"	1-3/4"	HM	P-7/7	3	1 1/2
ROOF LEVEL								
OC 401	E	3'-0"	7'-0"	1-3/4"	HM/GLV	P-8/10	11	1 1/2

DOOR SCHEDULE

DOOR #	DOOR			FRAME		HRD WR	LABEL	NOTES
	TYPE	WIDTH	HEIGHT	THICK	MAT			
SECOND EFFLUENT PUMP STATION								
SE 101	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	11	---
SE 102	C-1	3'-0"	7'-0"	1-3/4"	HM	PT	1	---
SE 103	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	11	---
SE 104	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	11	---
SE 105	E	2'-3"-0"	10'-0"	1-3/4"	HM/GLV	PT	11/A	---
SE 106	C-1	2'-3"-0"	7'-0"	1-3/4"	HM	PT	1/A	---
SE 107	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	11	---
SE 108	F	12'-0"	12'-0"	1-3/4"	ALUM	ANOD	---	---
BIOLOGICAL AERATED FILTER COMPLEX (BAF)								
BAF 100	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	11	---
BAF 101	C-1	3'-0"	7'-0"	1-3/4"	HM	PT	6	1 1/2
BAF 102	F	8'-0"	10'-0"	1-3/4"	ALUM	---	---	---
BAF 103	E	2'-3"-0"	7'-0"	1-3/4"	HM/GLV	PT	11/A	---
BAF 104	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	11	---
BAF 105	C-1	3'-0"	7'-0"	1-3/4"	HM	PT	6	1 1/2
BAF 106	C-1	3'-0"	7'-0"	1-3/4"	HM	PT	6	1 1/2
BAF 107	C-1	2'-3"-0"	10'-0"	1-3/4"	HM	PT	6	1 1/2
BAF 108	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	1	---
BAF 109	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	1	---
BAF 110	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	1	3/4
BAF 111	E	2'-3"-0"	7'-0"	1-3/4"	HM/GLV	PT	1/A	---
BAF 112	H	3'-0"	7'-0"	2"	ALUM	ALUM	---	---
BAF 113	H	3'-0"	7'-0"	2"	ALUM	ALUM	---	---
BAF 114	E	2'-3"-0"	7'-0"	1-3/4"	HM/GLV	PT	1/A	---
BAF 201	C-1	3'-0"	7'-0"	1-3/4"	HM	PT	6	1 1/2
BAF 202	C-1	3'-0"	7'-0"	1-3/4"	HM	PT	6	3/4
BAF 203	C-1	3'-0"	7'-0"	1-3/4"	HM	PT	6	3/4
BAF 204	C-1	3'-0"	7'-0"	1-3/4"	HM	PT	6	1 1/2
BAF 205	C-1	3'-0"	7'-0"	1-3/4"	HM	PT	6	3/4
BAF 302	H	3'-0"	7'-0"	2"	ALUM	ALUM	---	---
BAF 303	H	3'-0"	7'-0"	2"	ALUM	ALUM	---	---
HIGH RATE FLOCCULATED SETTLING COMPLEX (HRFS)								
HR 101	E	2'-3"-0"	7'-0"	1-3/4"	HM/GLV	PT	11/A	1 1/2
HR 102	F	8'-0"	10'-0"	1-3/4"	ALUM	---	---	---
HR 103	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	1	---
HR 104	E	2'-3"-0"	7'-0"	1-3/4"	HM/GLV	PT	1	---
HR 105	F	8'-0"	10'-0"	1-3/4"	ALUM	---	---	---
HR 201	E	2'-3"-0"	7'-0"	1-3/4"	HM/GLV	PT	11/A	---
HR 202	E	2'-3"-0"	7'-0"	1-3/4"	HM/GLV	PT	11/A	---
HR 203	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	6	1 1/2
U V DISINFECTION								
UV 101	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	11	---
UV 102	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	11	---
UV 201	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	1	1 1/2
UV 202	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	1	---
UV 203	---	---	---	---	---	---	---	---
UV 204	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	1	---
UV 205	E	3'-0"	7'-0"	1-3/4"	HM/GLV	PT	1	---
UV 206	E	2'-3"-0"	7'-0"	1-3/4"	HM/GLV	PT	11/A	---

DOOR #	SIGN TYPE	TEXT	SYMBOL
OC102	(B)	STAIR	STAIR
OC105	A	EMPLOYEE'S ONLY	MAN
OC106	A	ELEVATOR ROOM	
OC107	A	I/E ROOM	
OC108	A	SPRINKLER ROOM	
OC114	A	MAINTENANCE	
OC118	(B)	MEN	MAN
OC119	(B)	WOMEN	WOMAN
OC121	(B)	STAIR	STAIR
OC201	A	EMPLOYEE TRAINING	
OC202	(B)	STAIR	STAIR
OC203	A	LUNCHROOM	
OC204	(B)	WOMEN	WOMAN
OC205	A	MECHANICAL	
OC206	(B)	MEN	MAN
OC207	(B)	STAIR	STAIR
OC208	(A)	EMERGENCY EXIT ONLY	KEEP CLEAR
OC301	(B)	WOMEN	WOMAN
OC302	(B)	MEN	MAN
OC303	(B)	STAIR	STAIR
OC304	A	PRESENTATION ROOM	
OC305	A	CONTROL ROOM	
OC306	A	LAB	
OC307	(A)/(3)	OFFICE	
OC308	(B)	STAIR	STAIR
OC309	(A)	BATH	
OC314	A	SCADA	
OC316	A	JANITOR	

DOOR TYPES



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT	File Number 00659 Date APRIL 2001 A-519
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Layer: ON=*, OFF=*REF*
07/17/00 OBG JAS
EEA-VERT

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW
1	AS BID		SAW
2	3/22/02	REVISED FOR MODIFICATION 4A-004	SAW
3	10/31/05	RECORD DRAWING	TWS

In charge of SAW
Designed by SAW
Drawn by SAW
Checked by SAW

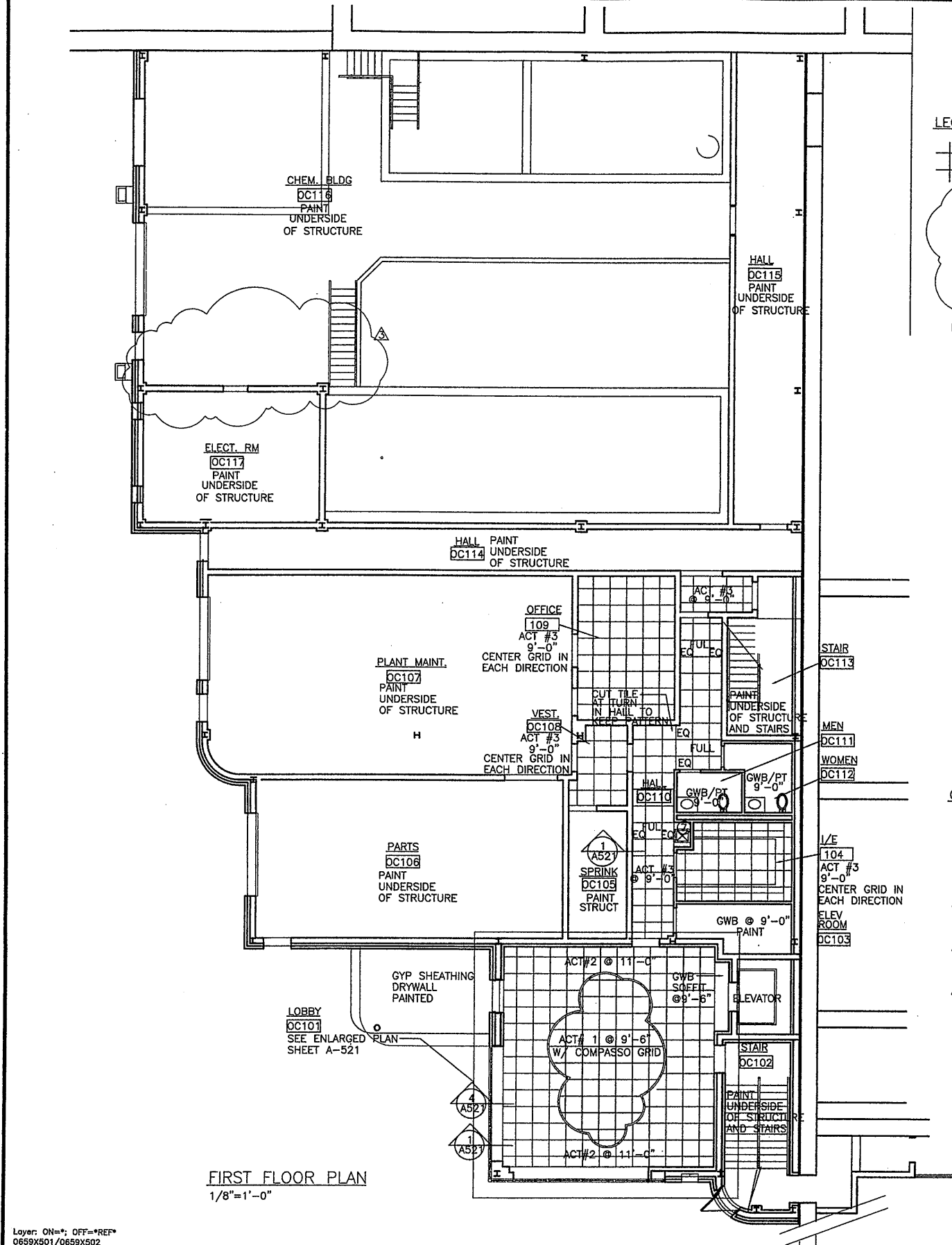
GROUP 1 DESIGN
SHELIA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13206
315-434-1844 / FAX 434-1846

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

**ALL BUILDING STRUCTURES
DOOR SCHEDULE AND SIGNAGE**
ARCHITECTURAL

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

DATE: PER:



Layer: ON=; OFF=REF
 0659X501/0659X502
 07/17/00 OBG JAS
 EEA-VERT

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

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	3/22/02	REVISED FOR MODIFICATION 4A-004	SAW
3	10/31/05	RECORD DRAWING	TWS

In charge of SAW
 Designed by SAW
 Drawn by SAW
 Checked by SAW

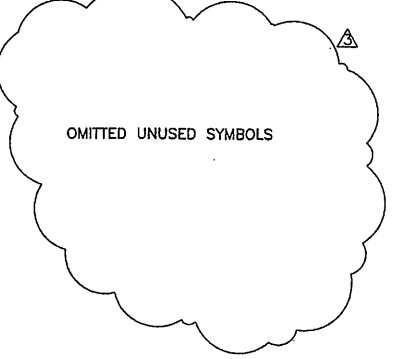
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

GROUP 1 DESIGN
 SHEILA WEED ARCHITECT
 317 SOUTH COLLINGSWOOD AVE.
 SYRACUSE, NEW YORK 13206
 315-434-1844 / FAX 434-1845

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
OPERATIONS CENTER AND CHEMICAL BUILDING-C
1st & 2nd FLOOR REF. CEIL. PLANS
 ARCHITECTURAL

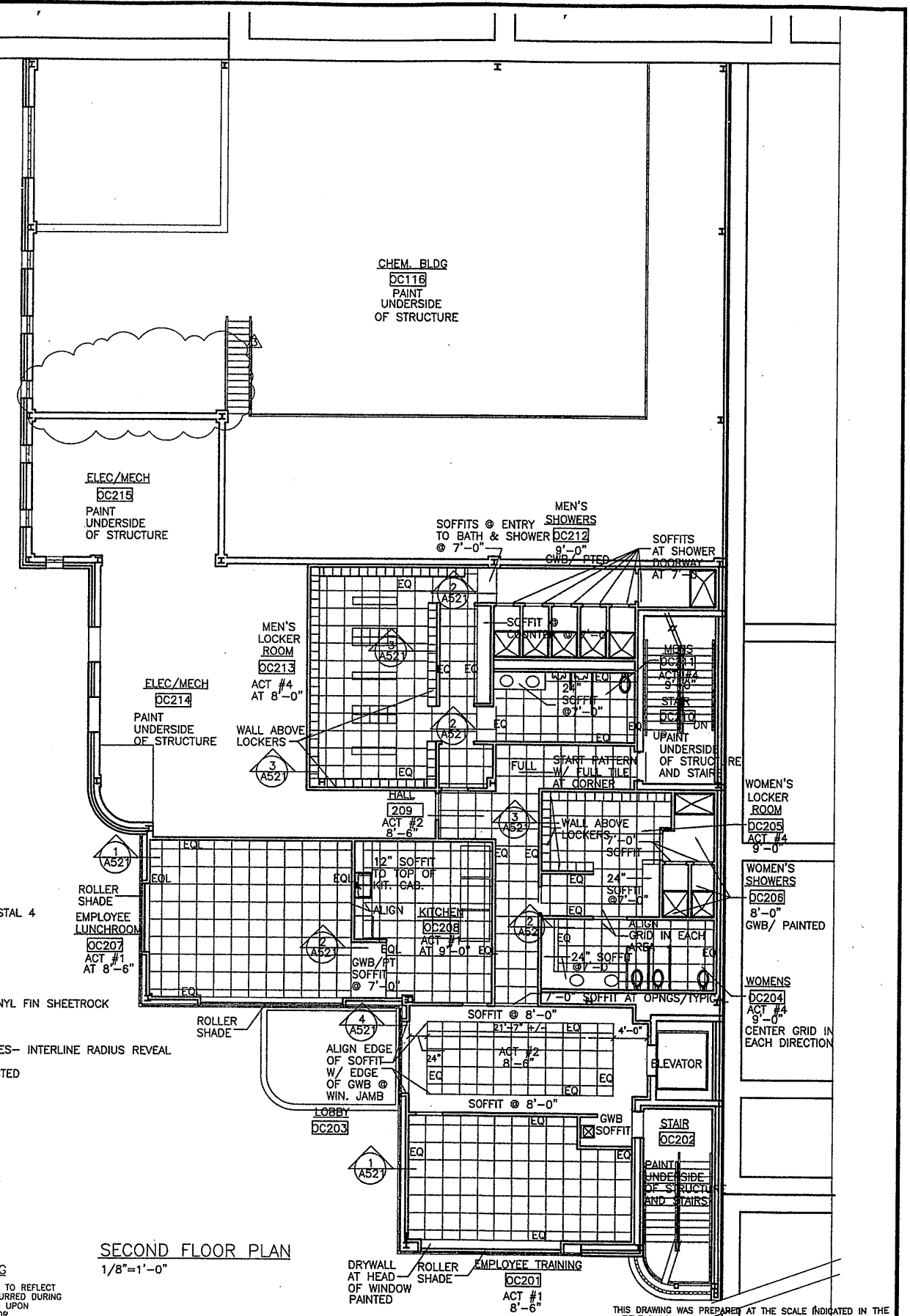
File Number 00659
 Date APRIL 2001
A-520

LEGEND
 2 X 2 CEILING GRID FASTENED TO BUILDING SUBSTRUCTURE- TILE TYPE AS INDICATED

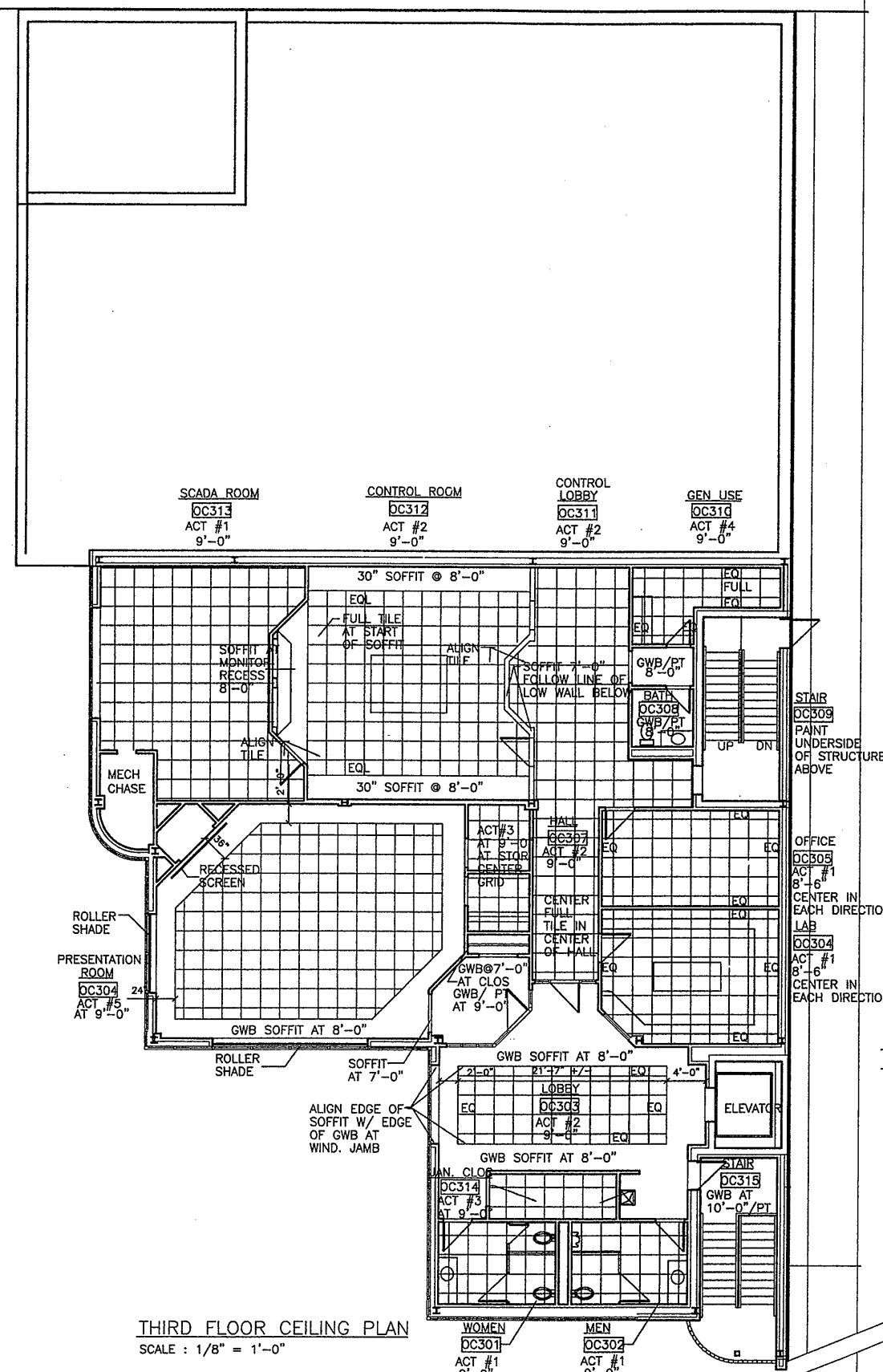


- CEILING TYPES**
- ACT #1- 2 X 2 SIM. TO USG INTERIORS/ FROST 2' X 2' X 3/4" W/ FINELINE RECESSED EDGE WHITE TILE AND WHITE FINELINE GRID
 - ACT #2- 2 X 2 SIM. TO USG INTERIORS/ FROST/ PEDESTAL 4 2' X 2' X 3/4" W/ FINELINE RECESSED EDGE WHITE TILE AND WHITE FINELINE GRID
 - ACT #3- 2 X 2 SIM. TO USG INTERIORS/ 2' X 2' X 3/4" W/ FINELINE RECESSED EDGE WHITE TILE AND WHITE FINELINE GRID
 - ACT #4- 2 X 2 SIM. TO USG INTERIORS/ CLIMAPLUS-VINYL FIN SHEETROCK 2' X 2' X 1/2" W/ SQUARE EDGE WHITE TILE AND WHITE 15/16" GRID
 - ACT #5- 2 X 2 SIM. TO USG INTERIORS/ SILENT SQUARES- INTERLINE RADIUS REVEAL 2' X 2' X 3/4" W/ FINELINE RADIUS EDGE GUILFORD BAILEY FABRIC/ COLOR TO BE SELECTED FINELINE GRIDE COLOR TO BE SELECTED

RECORD DRAWING
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 DATE: PER:



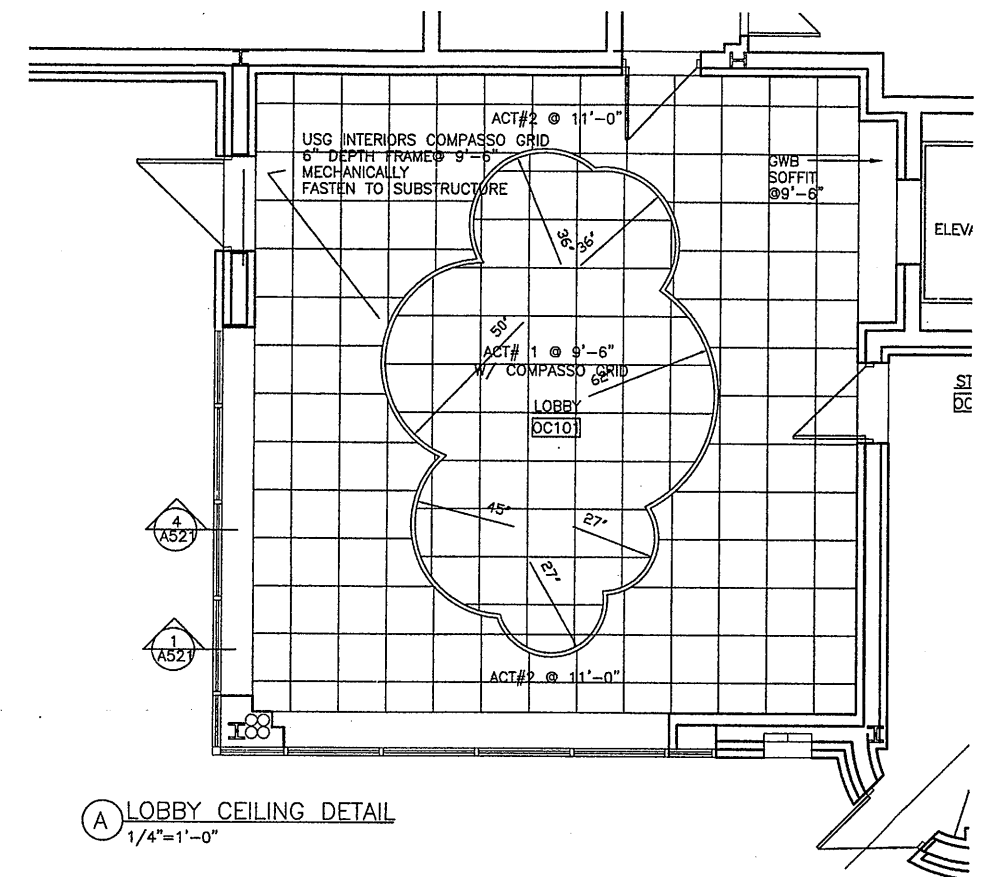
THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.



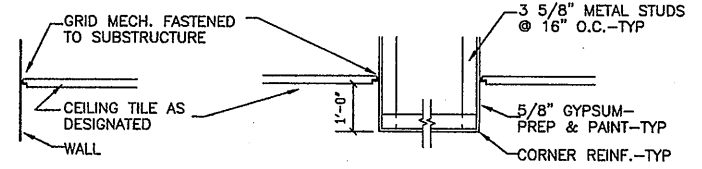
THIRD FLOOR CEILING PLAN
SCALE: 1/8" = 1'-0"

- 2 X 2 CEILING GRID FASTENED TO BUILDING SUBSTRUCTURE- TILE TYPE AS INDICATED
- 2 X 2 FLOURESCENT LIGHT FIXTURE BY
- CEILING GRILL
- ROUND CEILING DIFFUSER
- SPEAKER
- SMOKE
- HEAT DETECTOR
- EXIT LIGHT
- SPRINKLER

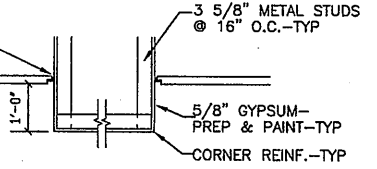
AT THE LOCATION OF THE SMOKE VENT AT THE DRYWALL CEILING IN STAIR OC315, FRAME THE OPENING OF THE SMOKE HATCH (3' x 3') WITH METAL FRAMING AND COVER WITH DRYWALL TO CREATE A SHAFT BETWEEN THE DRYWALL CEILING AND THE SMOKE HATCH. FINISH THE BOTTOM OF THE DRYWALL SHAFT FLUSH WITH THE FINISHED DRYWALL CEILING. PAINT THE SHAFT THE SAME COLOR AS INDICATED FOR THE CEILING AT THAT LOCATION.



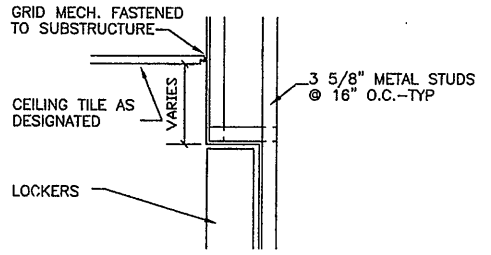
A LOBBY CEILING DETAIL
1/4" = 1'-0"



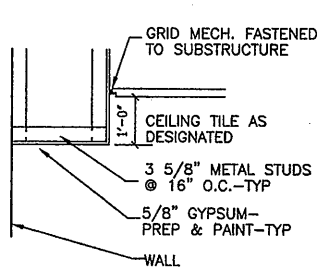
1 CEILING DETAIL
1/2" = 1'-0"



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



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



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

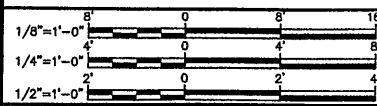
RECORD DRAWING

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Layer: ON=*; OFF=*REF*
0659X501/0659X503
07/17/00 OBG JAS
EEA-VERT



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0	4/20/01	ISSUED FOR APPROVAL	SAW
1		AS BID	SAW
2	10/31/05	RECORD DRAWING	TWS

In charge of: SAW
Designed by: SAW
Drawn by: SAW
Checked by: SAW

ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP
SYRACUSE, NEW YORK

GROUP 1 DESIGN
SHEILA WEED ARCHITECT
317 SOUTH COLLINGWOOD AVE.
SYRACUSE, NEW YORK 13206
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
OPERATIONS CENTER AND CHEMICAL BUILDING-C
3rd FLOOR REF. CEIL. PLAN AND DETAILS
ARCHITECTURAL

File Number
00659
Date
APRIL 2001
A-521

STRUCTURAL ABBREVIATIONS:

A.B.	ANCHOR BOLT	H.V.A.C.	HEATING, VENTILATING AND AIR-CONDITIONING
ADD'L	ADDITIONAL	I.D.	INSIDE DIAMETER
A.C.I.	AMERICAN CONCRETE INSTITUTE	I.F.	INSIDE FACE
A.F.F.	ABOVE FINISH FLOOR	IN.	INCHES
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	INFO.	INFORMATION
A.N.S.I.	AMERICAN NATIONAL STANDARD INSTITUTE	INSUL.	INSULATION
A.S.T.M.	AMERICAN SOCIETY FOR TESTING AND MATERIALS	INT.	INTERIOR
A.W.S.	AMERICAN WELDING SOCIETY	INV.	INVERT
A.T.	ALUMINUM	JOINT	JOINT
ALUM. OR AL.	ALUMINUM	K.	KIPS (1K = 1,000 LBS.)
APPROX.	APPROXIMATE	K-FT	KIPS PER FOOT
ARCH.	ARCHITECTURAL	K.S.F.	KIPS PER SQUARE FOOT
B.A.F.	BIOLOGICAL AERATED FILTER	L.L.	LIVE LOAD
B. OR BOT.	BOTTOM	LG.	LONG
B.F.F.	BELOW FINISH FLOOR	L.L.H.	LONG-LEG HORIZONTAL
B.L.S.	BUILDING	L.L.O.	LONG LEG OUTSTANDING
B.M.	BEAM	L.L.V.	LONG LEG VERTICAL
B.R.G.	BEARING	LBS.	POUNDS
BSMT.	BASEMENT	LONGIT.	LONGITUDINAL
(C)	COMPRESSION	L.P. OR L. PT.	LOW POINT
C.B.	CATCH BASIN	L.W.	LIGHTWEIGHT
CANTIL.	CANTILEVER	MANUF. OR MFR	MANUFACTURER
CTL.	CENTER	MAT'L	MATERIAL
CHEM.	CHEMICAL	MAX.	MAXIMUM
C.J.	CONST. OR CONTROL JT.	MECH.	MECHANICAL
C.L.	CENTER LINE	MEZZ.	MEZZANINE
C.L.G.	CEILING	M.H.	MANHOLE
CL.R.	CLEAR	M.D.	METAL DECK
C.M.U.	CONCRETE MASONRY UNIT	MISC.	MISCELLANEOUS
COL.	COLUMN	METAL	METAL
CONC.	CONCRETE	MIN.	MINIMUM
CONN.	CONNECTION	M.O.	MASONRY OPENING
CONSTR.	CONSTRUCTION	N.	NORTH
CONT.	CONTINUOUS	N.F.	NEAR FACE
CONTR.	CONTRACTOR	N.I.C.	NOT IN CONTACT
COORD.	COORDINATE	NO. OR #	NUMBER
COV.	COVER	N.S.	NEAR SIDE
4	CUBIC YARDS	NOT TO SCALE	NOT TO SCALE
DEM.	DEMOLISH	O.C.	ON CENTER
DET.	DETAIL	O.H.	OVERHEAD
8d	DRY DENSITY	O.D.	OUTSIDE DIAMETER
D.F.T.	DRY FILM THICKNESS	O.F.	OUTSIDE FACE
DIAM.	DIAMETER	OPNG.	OPENING
DIAG.	DIAGONAL	OPP.	OPPOSITE
DI.M.	DIMENSION	P.C.F.	PRECAST PLANK
D.L.	DEAD LOAD	P.C.C.P.	PRESTRESSED CONCRETE CYLINDER PIPE
DWG.	DRAWING	P.H.	PENTHOUSE
DWL.	DOWEL	PL.	PLATE
DN.	DOWN	POLY.	POLYMER
E	EAST	PREFAB.	PREFABRICATED
E.A.	EACH	P.C.F.	POUNDS PER CUBIC FOOT
E.F.	EACH FACE	P.S.F.	POUNDS PER SQUARE FOOT
E.J.	EXPANSION JOINT	P.S.V.	POLYVINYL CHLORIDE
EL.	ELEVATION	R.	RADIUS OR RISER
ELEV.	ELEVATOR	REF.	REFERENCE
EMBED.	EMBEDMENT	REINF.	REINFORCED
ELEC.	ELECTRICAL	REQ'D.	REQUIRED
EQUIP.	EQUIPMENT	REV.	REVISION
EQUIV.	EQUIVALENT	R.D.	ROOT DRAIN
E.W.	EACH WAY	R.M.	ROOM
EX.	EXISTING	S.	SOUTH
EXIST.	EXISTING	SCHED.	SCHEDULE
EXP.	EXPANSION	SECT.	SECTION
EXT.	EXTERIOR	S.F.	SQUARE FEET
F.D.	FLOOR DRAIN	SIM.	SIMILAR
FDN.	FOUNDATION	SQ.	SQUARE
FIN.	FINISH	S.S. OR SST	STAINLESS STEEL
FLG.	FLANGE	STD.	STANDARD
FLOCC.	FLOCCULATION	STA.	STATION
FLR.	FLOOR	STIFFER.	STIFFENER
F.R.P.	FIBERGLASS REINFORCED PLASTIC	STIRRUP.	STIRRUP
F.O.	FACE OF	STL.	STEEL
F.R.C.	FIBER REINFORCED CONCRETE	STRUCT.	STRUCTURAL
F.S.	FAR SIDE	SYM.	SYMMETRICAL
FT.	FEET	T	TENSION
FTG.	FOOTING	T.	TREAD
FTGS.	FOOTINGS	T/	TOP
GA.	GAUGE	TEMP.	TEMPERATURE
GALV.	GALVANIZED	T & G.	TONGUE & GROOVE
G.B.	GRADE BEAM	TYP.	TYPICAL
H.	HORIZONTAL	U.O.N.	UNLESS OTHERWISE NOTED
H.D.P.E.	HIGH DENSITY POLYETHYLENE	V.	VERTICAL
HORIZ.	HORIZONTAL	VERT.	VERTICAL
H.P. OR H. PT.	HIGH POINT	W.	WEST
H.R.E.S.	HIGH RATE FLOCCULATED SETTLING SYSTEM	W.R.	WIDE RIB
H.S.	HIGH STRENGTH	W/O.	WITHOUT
		WS.	WATERSTOP
		W.W.F.	WELDED WIRE FABRIC
		W.W.M.	WELDED WIRE MESH

STRUCTURAL SYMBOLS:

	COMPACTED FILL
	COMPACTED GRANULAR BASE
	CONCRETE MASONRY UNITS
	CONCRETE
	DECK SPAN
	GRATING
	GROUT
	REINFORCING STEEL IN CONCRETE
	SLOPE
	STEEL
	UNDISTURBED EARTH
	UNDISTURBED ROCK
	WELDED WIRE MESH IN CONCRETE
	FINAL GRADE

STRUCTURAL GENERAL NOTES: (CONTINUED)

7. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS: CAST IN PLACE = 4500 P.S.I. PRE-CAST = 5000 P.S.I. ALL FILL CONCRETE SHALL HAVE 28 DAY COMPRESSIVE STRENGTH OF 4500 P.S.I. PROVIDE A RAKED SURFACE IN CONCRETE TO BE COVERED BY FILL CONCRETE.
8. EXTERIOR CONCRETE SHALL BE AIR ENTRAINED 5% TO 7%.
9. CHAMFER EXPOSED CORNERS OF CONCRETE 3/4 IN.
10. CONCRETE REINFORCING: DEFORMED BARS, A.S.T.M. A-615, GRADE 60. WELDED WIRE MESH: A.N.S.I./A.S.T.M. A185
11. CAST IN PLACE CONCRETE COVER FOR REINFORCING U.O.N. ON DETAILS: CONCRETE CAST AGAINST EARTH 3" CONCRETE TANKS 2" CONCRETE EXPOSED TO EARTH OR WEATHER #6 BAR & LARGER 2" #5 BAR & SMALLER 1-1/2" CONCRETE NOT EXPOSED TO EARTH OR WEATHER: BEAMS, COLUMNS 1-1/2" SLABS, WALLS AND JOISTS (#11 BAR & SMALLER) 3/4"
12. HOLD REINFORCING BARS AT CORRECT DISTANCE FROM FORMS AND EARTH WITH CHAIRS, SPACERS, AND TIES. (PLASTIC TIP LEGS AT EXPOSED CONCRETE) A 2" COVER SHALL BE MAINTAINED WHICH WILL REQUIRE THE BARS TO BE BENT AS NECESSARY TO AVOID THE SPECIFIED WATERSTOP.
13. IN ANY APPROVED CONSTRUCTION JOINT, PROVIDE A SHEAR KEY 1-1/2 IN. DEEP x 1/3 JOINT WIDTH. ALSO PROVIDE A TENSION CLASS #2 LAP OF REINFORCING. USE TYPE "B" LAPS AT APPROVED CONSTRUCTION JOINT LOCATIONS & AT OTHER REQUIRED LAP LOCATIONS.
14. SLAB, BEAM, AND JOIST TOP REINFORCING CONTINUOUS OVER A SUPPORT SHALL EXTEND TO THE 1/3-POINT OF THE CLEAR SPAN. SLAB, BEAM, AND JOIST TOP REINFORCING AT A DISCONTINUOUS END SHALL TERMINATE IN A STANDARD 90 DEGREE HOOK INTO SUPPORTING BEAMS AND WALLS.
15. CAST INTO THE CONCRETE ACCESSORIES REQUIRED BY ARCHITECTURAL FINISHES, AND MECHANICAL EQUIPMENT. COORDINATE DIMENSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
16. PIPES AND CONDUITS RUNNING HORIZONTALLY IN SLABS: PLACEMENT: CENTERED IN THE DEPTH OF THE SLAB MAXIMUM OUTSIDE DIAMETER: 1/3 THE SLAB THICKNESS SPACING: AT LEAST THREE DIAMETERS ON CENTER.
17. LOCATE CONSTRUCTION JOINTS IN BEAMS AND STRUCTURAL SLABS IN THE CENTER-1/3 OF SPAN; AND NOT CLOSER THAN 3 FT. FROM AN INTERSECTING BEAM.
18. CONCRETE WALLS SHALL HAVE POCKETS FOR BEAMS, AND SHELVES FOR STRUCTURAL SLABS NOT MONOLITHIC WITH WALL. 8 IN. MINIMUM BEARING FOR BEAMS, 4 IN. MINIMUM BEARING FOR SLABS.
19. MINIMUM DOWELS FROM CONCRETE WALLS TO TOP OF CONCRETE SLABS SHALL BE: #5 AT 12" IN THE DIRECTION OF MAIN SLAB REINFORCING. #5 AT 12" IN THE DIRECTION OF TEMPERATURE REINFORCING. EXTEND DOWELS TO THE 1/4-POINT OF SLAB SPAN.
20. AT CONCRETE BEAMS PROVIDE A MINIMUM OF 2-#5 TOP (STIRRUP SUPPORT) BARS LAPPED 18 IN. WITH TOP NEGATIVE REINFORCING BARS.
21. CONCRETE BEAMS WITH TOP BARS WHERE NO STIRRUPS ARE CALLED FOR SHALL HAVE #4 STIRRUPS AT 12 IN.
22. NO LAPS OF BOTTOM BARS PERMITTED IN STRUCTURAL SLABS.
23. PROVIDE THE FOLLOWING MINIMUM MASONRY REINFORCING UNLESS OTHERWISE NOTED:
 - A. 1-#4 CONTINUOUS VERTICAL REINFORCING: AT BUILDING CORNERS, AT EACH SIDE OF EACH OPENING AND AT WALL ENDS INCLUDING EACH SIDE OF CONTROL JOINTS.
 - B. 1-#4 CONTINUOUS HORIZONTAL REINFORCING IN BOND BEAM: AT BOTTOMS OF WALLS NOT DOWELED INTO A CONCRETE FOUNDATION, AT EACH FLOOR LEVEL, AT ROOF LEVEL AND AT TOPS OF WALLS.
 - C. 1-#4 HORIZONTAL REINFORCING IN BOND BEAM ABOVE AND BELOW MASONRY OPENINGS. EXTEND BOND BEAM 40-BAR-DIAMETERS BEYOND EDGES OF OPENINGS.
 - D. HORIZONTAL MASONRY JOINT REINFORCING AT 8 IN. O.C. OR 1-#4 CONTINUOUS HORIZONTAL REINFORCING IN BOND BEAMS 10 FT. O.C.
 - E. FOR A CMU SINGLE WIDTH WALL, A DUROWALL LADDER (TRUSS) TYPE JOINT REINFORCEMENT SHALL BE USED.
 - F. FOR A CMU DOUBLE WIDTH WALL (I.E. BRICK & BLOCK), USE A DUROWALL LADDER (TRUSS) JOINT REINFORCEMENT WITH A HOOK/EYE SYSTEM FOR THE BRICK VENEER LOCATIONS.
24. HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 1, CONFORMING TO A.S.T.M. C-90. F_m = 1500 P.S.I. FOR PARTIALLY OR FULLY GROUTED CONCRETE MASONRY.
25. USE TYPE "M" OR "S" MORTAR FOR BEARING AND SHEAR WALLS.

STRUCTURAL GENERAL NOTES:

THE FOLLOWING NOTES APPLY, UNLESS OTHERWISE NOTED OR SHOWN ON PLANS:

1. SECTIONS AND DETAILS SHOWN ON DRAWINGS ARE TYPICAL. USE SIMILAR CONSTRUCTION AT LOCATIONS NOT SPECIFICALLY DETAILED.
2. VERIFY AND COORDINATE DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH WHAT IS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS.
3. DESIGN LIVE LOADS: WIND NYS BC TABLE V-803 ROOF 40 P.S.F. + DRIFT FLOOR 250 P.S.F. or Actual Equipment Loads W/ 150 PSF IN OPEN AREAS STAIRS 100 P.S.F. WALKWAYS 100 P.S.F.
4. PILE FOUNDATION DESIGN IS BASED ON AN ALLOWABLE VALUE OF 120 TONS PER PILE IN END BEARING AS RECOMMENDED IN THE FOUNDATION INVESTIGATION PREPARED BY HALEY & ALDRICH OF NEW YORK DATED DECEMBER 2000.
5. PLACE CONCRETE ON FIRM SOILS.
6. FOLLOW A.C.I. 350 & A.C.I. 301 FOR CONCRETE WORK. FOLLOW A.C.I. 315 FOR CONCRETE REINFORCING AND ACCESSORIES.

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/2/05 PER: RCG

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

07/3/01 OBG RAE
0659s001

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

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Checked by CMT

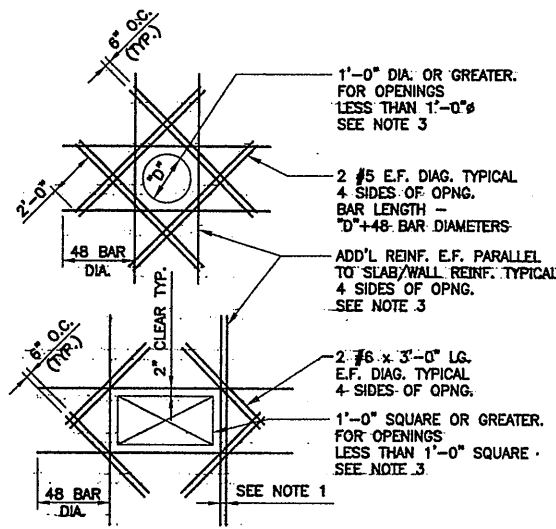
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

ABBREVIATIONS & GENERAL NOTES

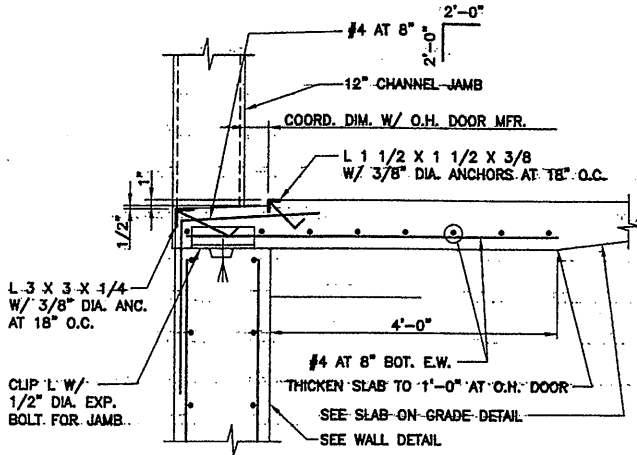
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S-001

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

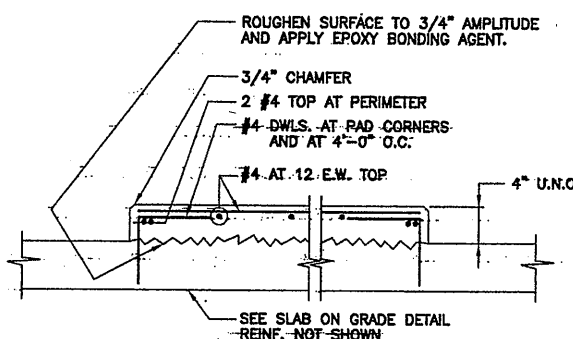


ADD'L. REINF. AT CONC. SLAB & WALL OPENINGS
NOT TO SCALE

- DETAIL NOTES:**
- WHERE MORE THAN ONE ADDITIONAL BAR IS REQUIRED PARALLEL TO THE EXISTING SLAB/WALL REINFORCING THE ADDITIONAL REINFORCING BARS SHALL BE SPACED AT 4 INCHES ON CENTER.
 - ADDITIONAL REINFORCING PARALLEL TO THE SLAB/WALL REINFORCING SHALL BE #5 BARS THAT PROVIDE A STEEL AREA ON EACH SIDE OF THE OPENING EQUAL TO 1/2 THE AREA OF THE REINFORCING CUT BY THE OPENING.
 - FOR OPENINGS WITH SIDES OR DIAMETERS LESS THAN 1'-0" SPREAD THE SLAB/WALL REINFORCING TO CLEAR THE OPENING.

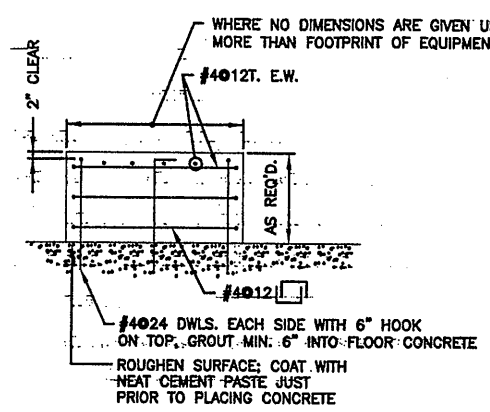


OVERHEAD DOOR SILL DETAIL
SCALE: 3/4" = 1'-0"

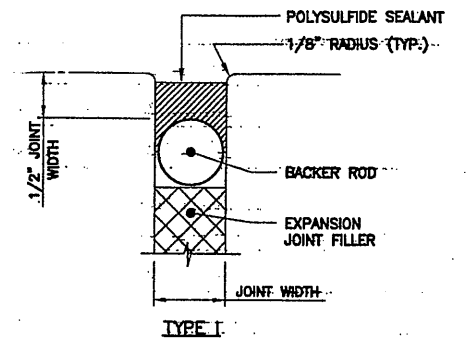


INTERIOR EQUIPMENT PAD DETAIL
SCALE: 3/4" = 1'-0"

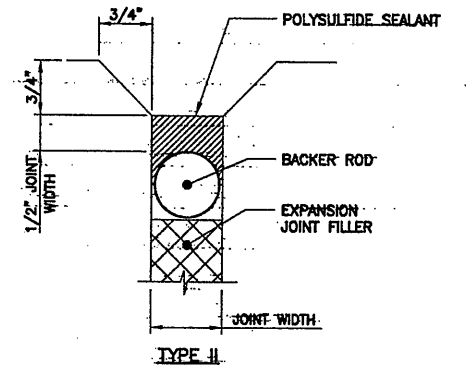
DETAIL NOTE:
COORD. EQUIP. PAD SIZE & ANCHOR BOLT LOCATIONS W/ MECH. DWGS. AND EQUIP. MFR.



TYPICAL EQUIPMENT/PUMP PAD DETAIL
NOT TO SCALE

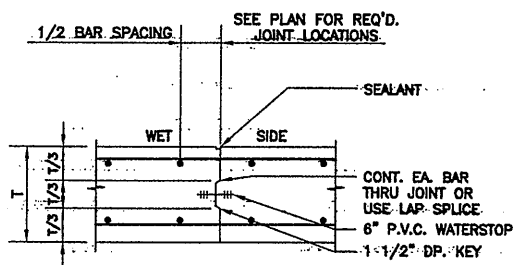


DETAIL NOTE:
USE FOR FLOOR AND TANK SLAB EXPANSION JOINTS.

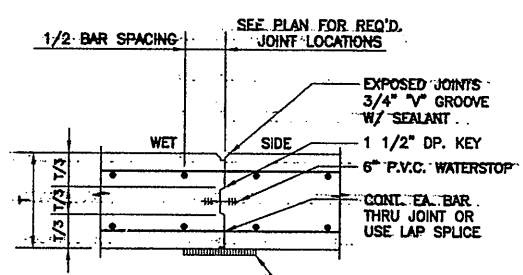


DETAIL NOTE:
USE FOR EXPOSED WALL EXPANSION JOINTS, INCLUDING THE INSIDE FACES OF TANK WALLS.

EXPANSION JOINT DETAIL
NOT TO SCALE

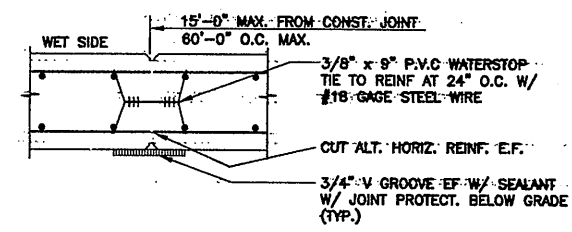


TANK SLAB CONST. JOINT DETAIL
NOT TO SCALE



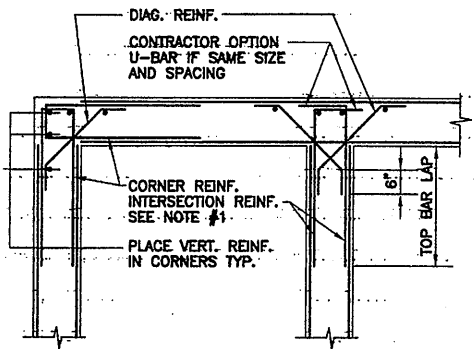
TANK WALL CONST. JOINT DETAIL
NOT TO SCALE

DETAIL NOTE:
1. AS A SUBSTITUTE FOR THE V GROOVE, CONTRACT 4A-GENERAL MAY PROVIDE A SAW CUT GROOVE WITH BACKING & SEALANT.



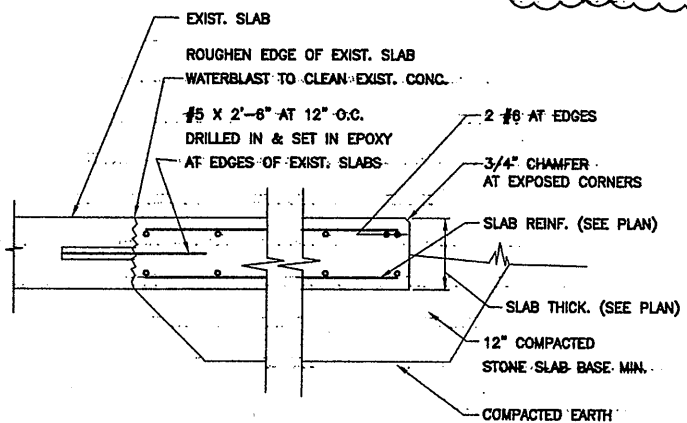
TANK WALL CONTROL JOINT DETAIL
NOT TO SCALE

DETAIL NOTE:
1. DO NOT USE AT CLARIFIER OR OTHER CIRCULAR TANK WALLS.
2. OMIT JOINT PROTECTION FOR INTERIOR TANK JOINTS.

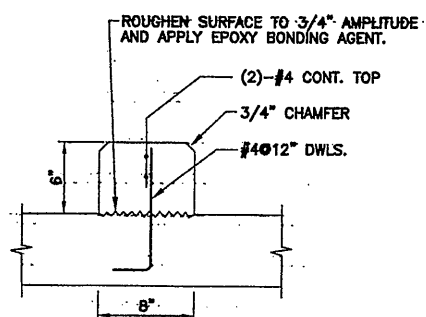


HORIZONTAL TANK WALL REINFORCING PLAN DETAIL
NOT TO SCALE

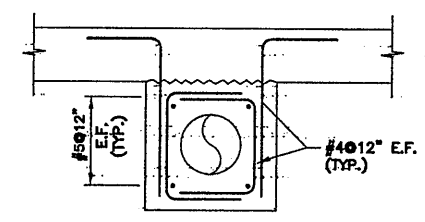
- DETAIL NOTES:**
- CORNER & INTERSECTION REINF BARS SHALL BE SAME SIZE & SPACING AS HORIZ WALL REINF.
 - REINF SHOWN IS A MINIMUM FOR ALL TANK WALLS. INSTALL ADDITIONAL REINF WHERE NOTED ON DWGS.
 - LOCATE JOINTS AWAY FROM CORNERS AND INTERSECTIONS.
 - REINF BARS SHALL BE LOCATED AS SHOWN FOR EACH SPECIFIC SECTION CUT AS SHOWN ON THE DWGS.



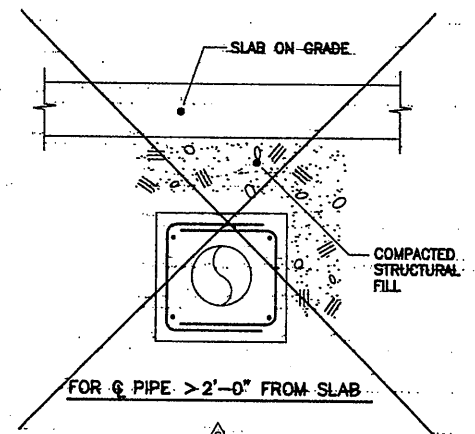
FOUNDATION PAD DETAIL
NOT TO SCALE



CURB DETAIL
NOT TO SCALE



FOR Ø PIPE ≤ 2'-0" FROM SLAB



FOR Ø PIPE > 2'-0" FROM SLAB

PIPE ENCASEMENT DETAILS
NOT TO SCALE

- DETAIL NOTES:**
- CONC. ENCASEMENT ALL AROUND U.O.N. FOR PIPES LESS THAN 12" DIA. USE 6" MIN. FOR PIPES 12" DIA. AND GREATER, USE 12" MIN.
 - ALL PIPING UNDER CONCRETE SLABS SHALL BE ENCASE AND TIED TO THE SLAB.

RECORD DRAWING
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2	10/31/05	RECORD DRAWING	RCG

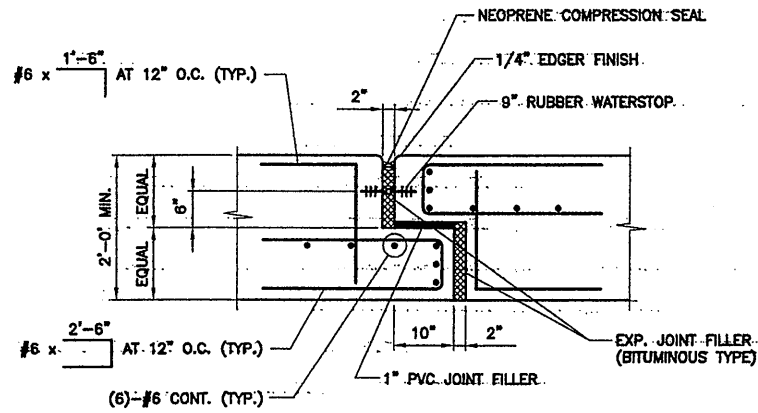
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Drawn by RAE
Checked by CMT

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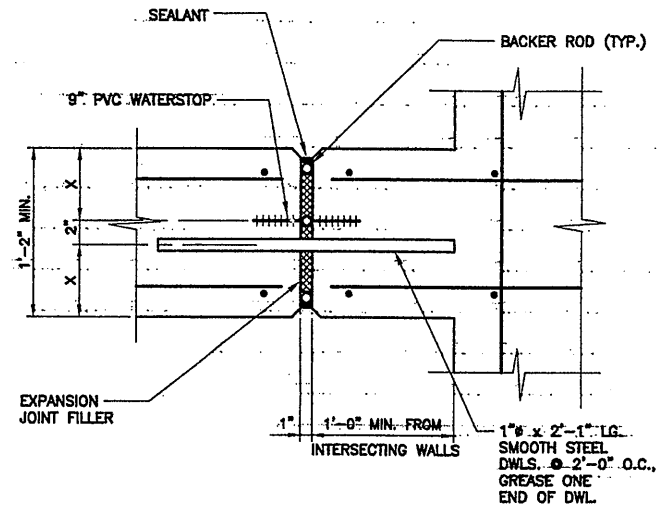
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

File Number: 00659
Date: APRIL 2001
S-002

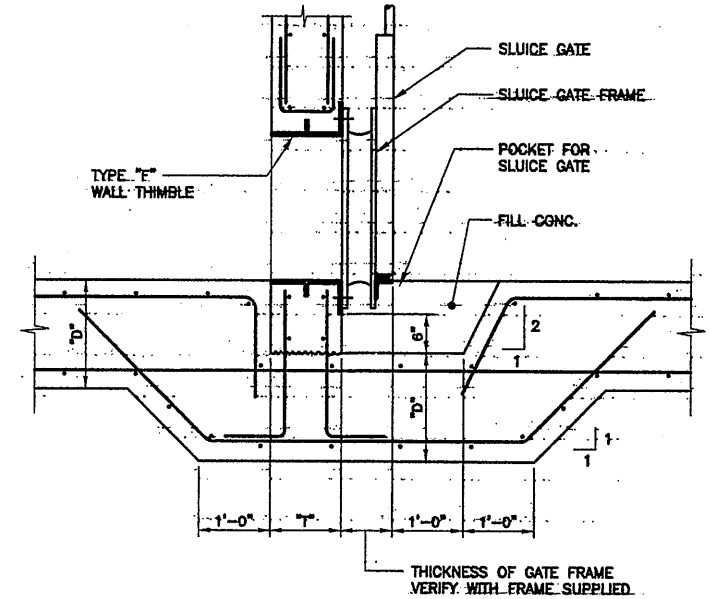
STANDARD DETAILS
STRUCTURAL



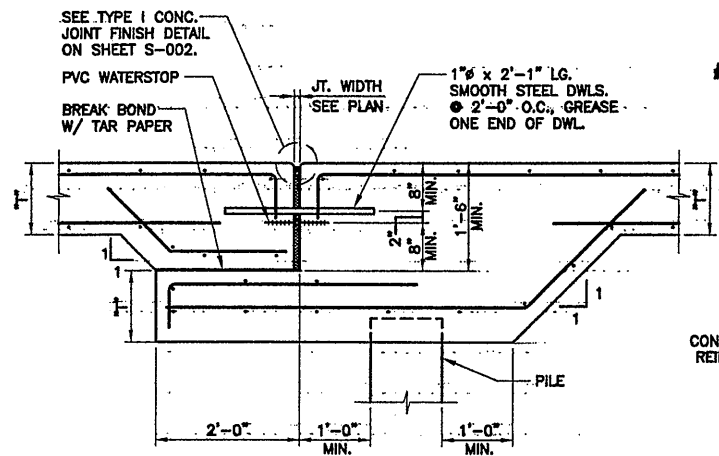
EXPANSION JOINT DETAIL
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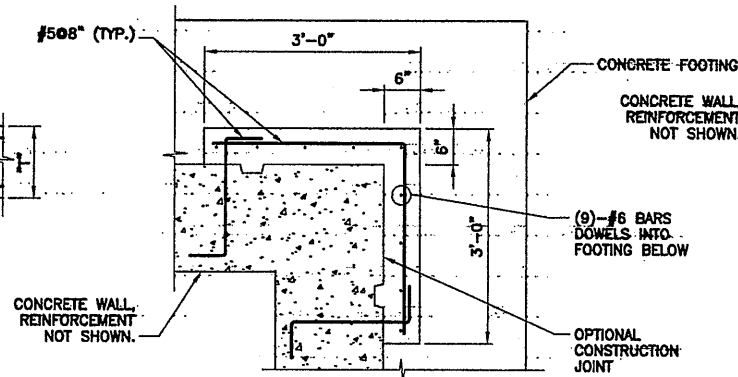
TYPICAL WALL EXPANSION JOINT DETAIL
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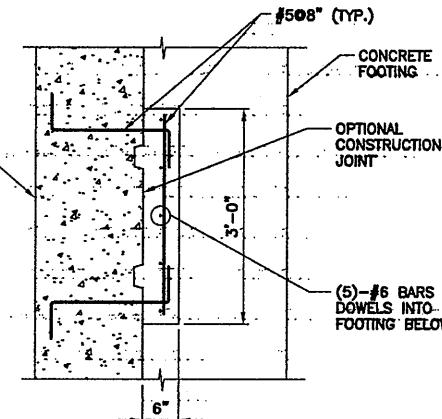
SLUICE GATE DETAIL
NOT TO SCALE



EXPANSION JOINT AT PILE SUPPORT SLAB
NOT TO SCALE



TYPICAL CORNER PIER DETAIL
SCALE: 3/4"=1'-0"



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

- DETAIL NOTES:**
1. MAKE POCKET IN SLAB 1'-0" LONGER THAN THE MAXIMUM OUT TO OUT HORIZONTAL DIMENSION OF THE WALL THIMBLE.
 2. 'D' = SLAB DEPTH
 3. 'T' = WALL THICKNESS.

- DETAIL NOTES:**
1. SEE A-207.
 2. PIERS TO EXTEND FROM TOP OF FOOTING TO ONE FOOT BELOW TOP OF WALL.
 3. PIERS FOR BAF, HRFS & UV BLDG.
 4. CONTINUE EXPANSION JOINTS THROUGH PIERS.

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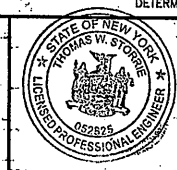
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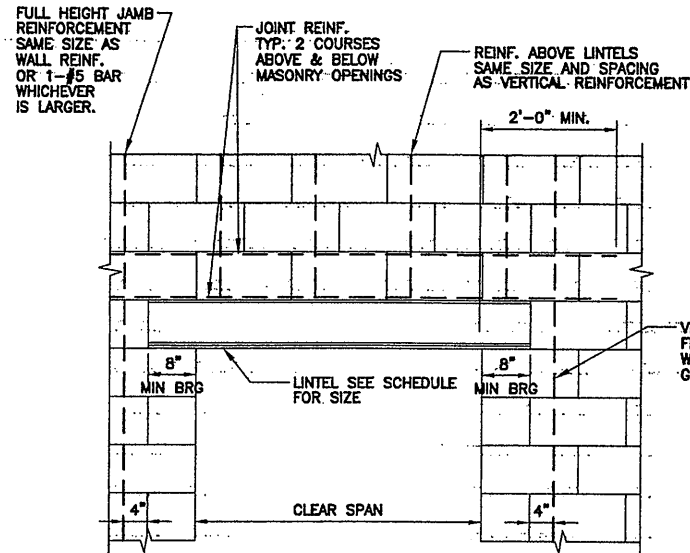
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



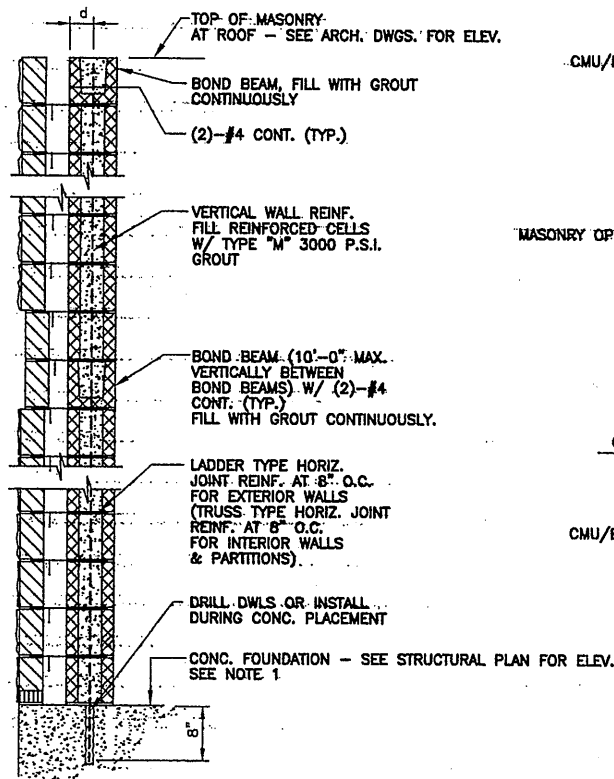
File Number
00659
Date
APRIL 2001
S-003

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

STANDARD DETAILS
STRUCTURAL

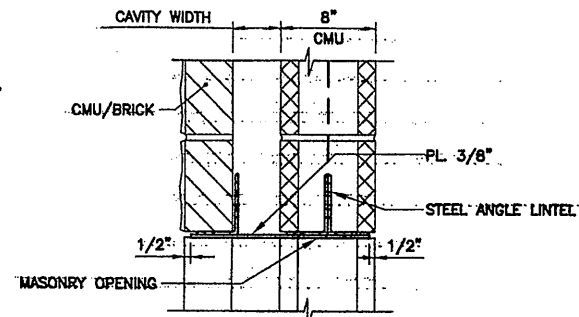


TYPICAL LINTEL ELEVATION:
NOT TO SCALE

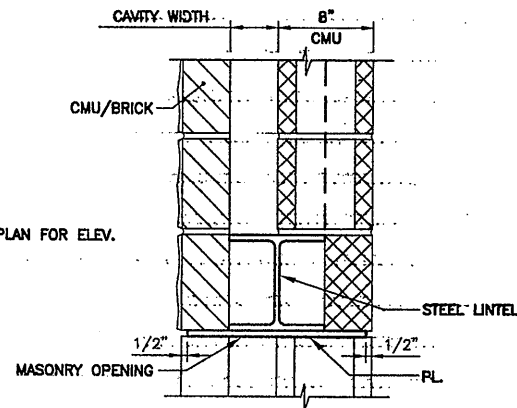


TYPICAL EXTERIOR WALL REINFORCING DETAIL:
NOT TO SCALE

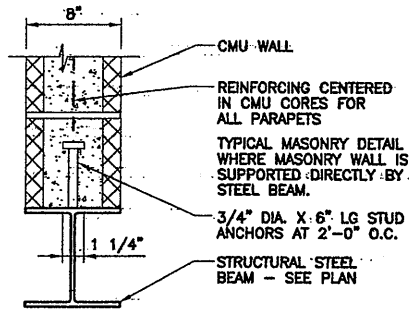
DETAIL NOTES:
1. SEE ARCHITECTURAL DWGS. FOR FLASHING, INSULATION & OTHER ARCHITECTURAL COMPONENTS.



LINTEL ANGLE DETAIL:
NOT TO SCALE

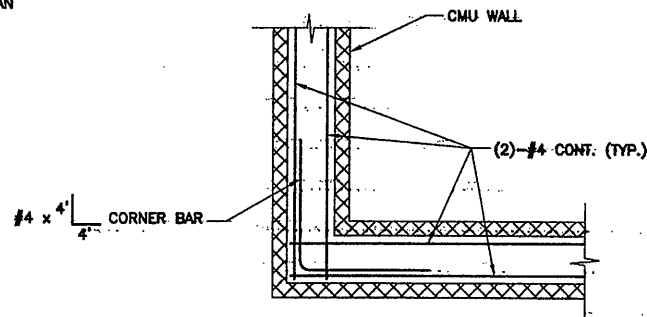


LINTEL BEAM DETAIL:
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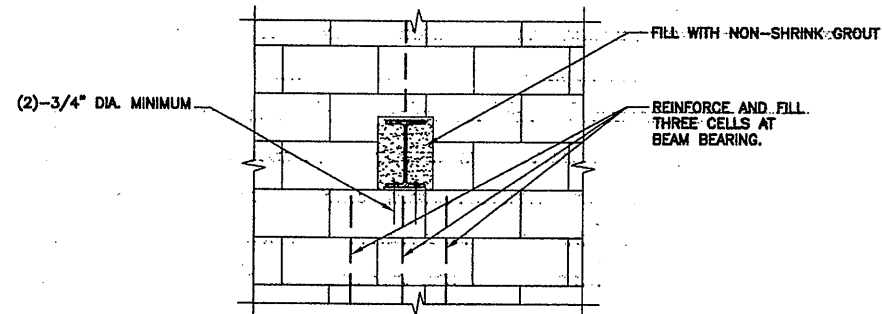


CMU REINF. DETAIL:
NOT TO SCALE

DETAIL NOTES:
FOR BEAMS WITH PLATE WELDED ON TOP, WELD STUD DIRECTLY TO PLATE AT CENTERLINE OF CMU CORE.



TYPICAL EXTERIOR WALL REINFORCING DETAIL:
NOT TO SCALE



TYPICAL ELEVATION AT BEARING:
NOT TO SCALE

STEEL LINTEL (SL) SCHEDULE					
MARK	MAX M.O.	THICKNESS	SECTION	LINTEL SIZE	REMARKS
ALL STRUCTURES, UNMARKED & MARKED LINTELS					
SL1	7'-0"	EA. 4"		L 3.5 X 3.5 X 5/16 + BOTTOM PLATE	NOTE 3, 6
SL2	7'-0"	EA. 4"		L5 X 3.5 X 5/16 LLV + BOTTOM PLATE	NOTE 3, 6
SL3	8'-0"	ALL		W8 X 15 + BOTTOM PLATE	NOTE 3, 4, 6, 7, 9
SL4	12'-0"	ALL		W8 X 21 + BOTTOM PLATE	NOTE 3, 4, 6, 7, 9
SL5	15'-0"	ALL		W8 X 28 + BOTTOM PLATE	NOTE 3, 4, 6, 7, 9
SL6	18'-0"	ALL		W16 X 36 + BOTTOM PLATE	NOTE 3, 4, 6, 7, 9
SL7	20'-0"	ALL		W16 X 40 + BOTTOM PLATE	NOTE 3, 4, 6, 7, 9
SL8	20'-0"	ALL		W16 X 45 + BOTTOM PLATE	NOTE 3, 4, 6, 7, 9
SL9	30'-0"	ALL		W18 X 55 + BOTTOM PLATE	NOTE 3, 4, 6, 7, 9

SCHEDULE NOTES:

- 8" BEARING ON EACH END OF LINTELS.
- UNLESS OTHERWISE NOTED ON PLANS & SECTIONS GROUT 3 COURSES OF CMU BELOW BEARING.
- USE SL-1 THROUGH SL-8 WHERE LINTELS ARE NOT SCHEDULED. DO NOT EXCEED MAXIMUM M.O. WHERE LINTELS ARE NOT MARKED ON THE PLANS.
- THE FIRST COURSE OF MASONRY ABOVE LINTELS SHALL BE LAID IN A FULL BED OF MORTAR.
- f_m = 1500 P.S.I. GR. 60 REINF. 1 1/2" IN. COVER.
- SEE DETAILS THIS SHEET FOR STEEL LINTEL DETAILS.
- BOTTOM PLATE: PL. 1/2" INCH THICK AS INDICATED. PLATE WIDTH = NOMINAL WALL THICKNESS LESS 1 INCH.
- FOR LINTELS SL1 & SL2 OMIT EXTERIOR ANGLE WHERE THERE IS NO FACE BRICK.
- ALL BEAMS SL-3 THRU SL-9 TO BE CENTERED IN WALL.
- PROVIDE PRIME AND FIRST COAT OF PAINT IN ACCORDANCE WITH SPECIFICATION 09900 PRIOR TO INSTALLATION.

07/3/01 OBG RAE
0659#004

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by TWS
Drawn by RAE
Checked by CMT

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number
00659

Date
APRIL 2001

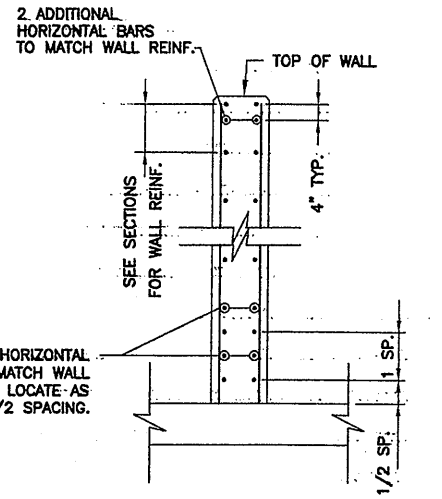
S-004

STANDARD DETAILS
STRUCTURAL

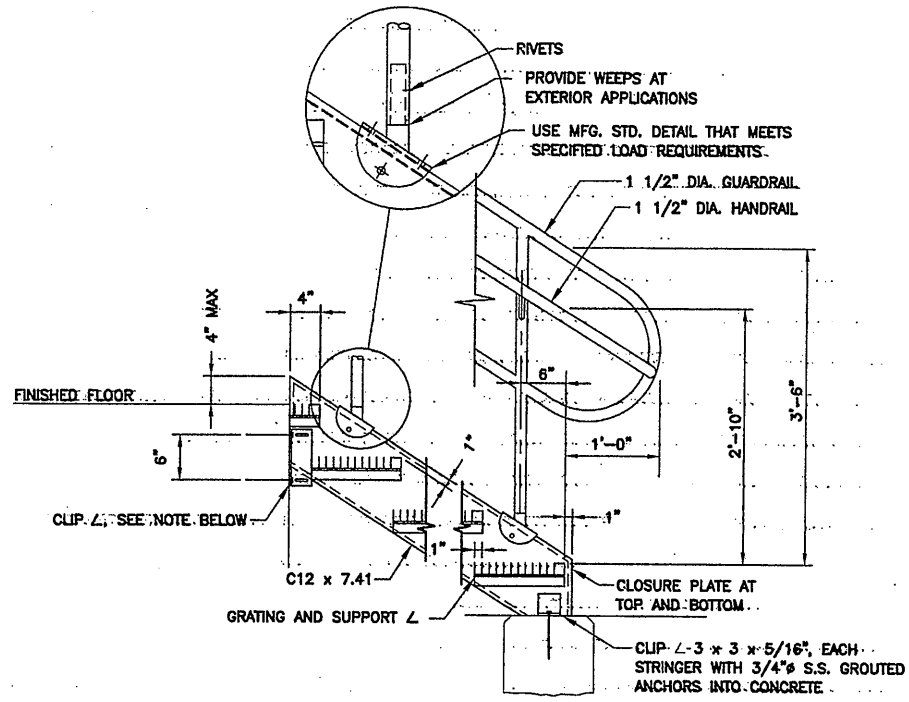
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2-OF THE NEW YORK STATE EDUCATION LAW

RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/1/05 PER: RCG

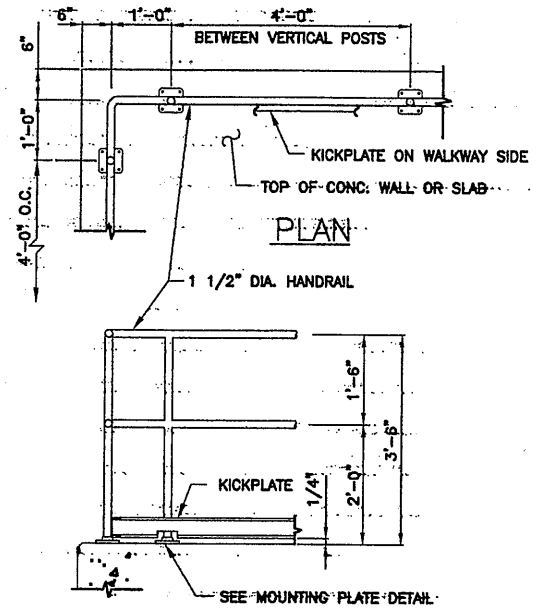
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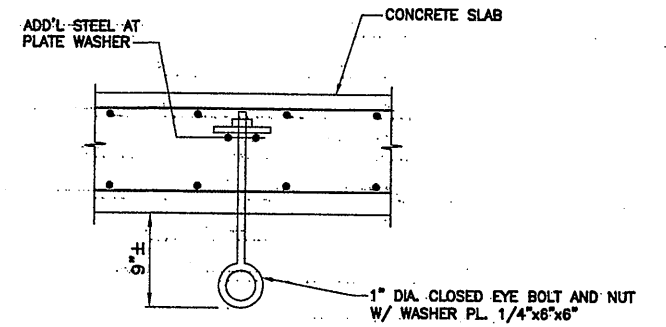
HORIZONTAL WALL REINFORCING
DETAIL - SECTION VIEW
NOT TO SCALE



NOTE: ALL MATERIAL TO BE ALUMINUM
ALUMINUM STAIR DETAIL
SCALE: 3/4"=1'-0"

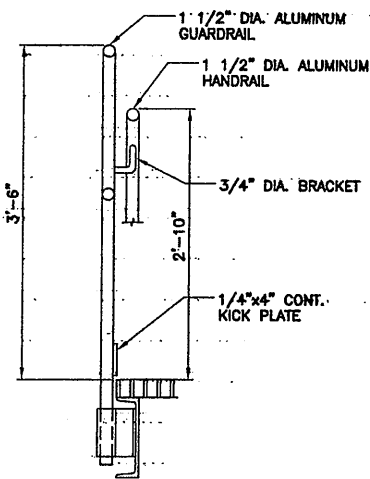


HANDRAIL DETAIL
SCALE: 1/2"=1'-0"



TYPICAL LIFTING EYE DETAIL
NOT TO SCALE

NOTE:
REFER TO DWG. C4ARF0461RD-1 FOR
"LIFTING EYE IN PRE-CAST CONCRETE"
DETAIL.

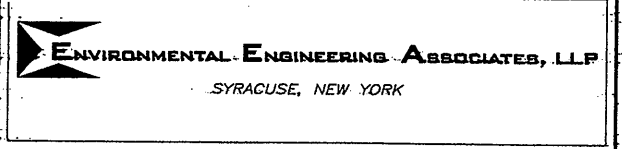


TYPICAL HANDRAIL DETAIL
SCALE: 1"=1'-0"

07/3/01 OBG RAE
0659s005

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1	7/3/01	AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
Designed by: TWS
Drawn by: RAE
Checked by: CMT



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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

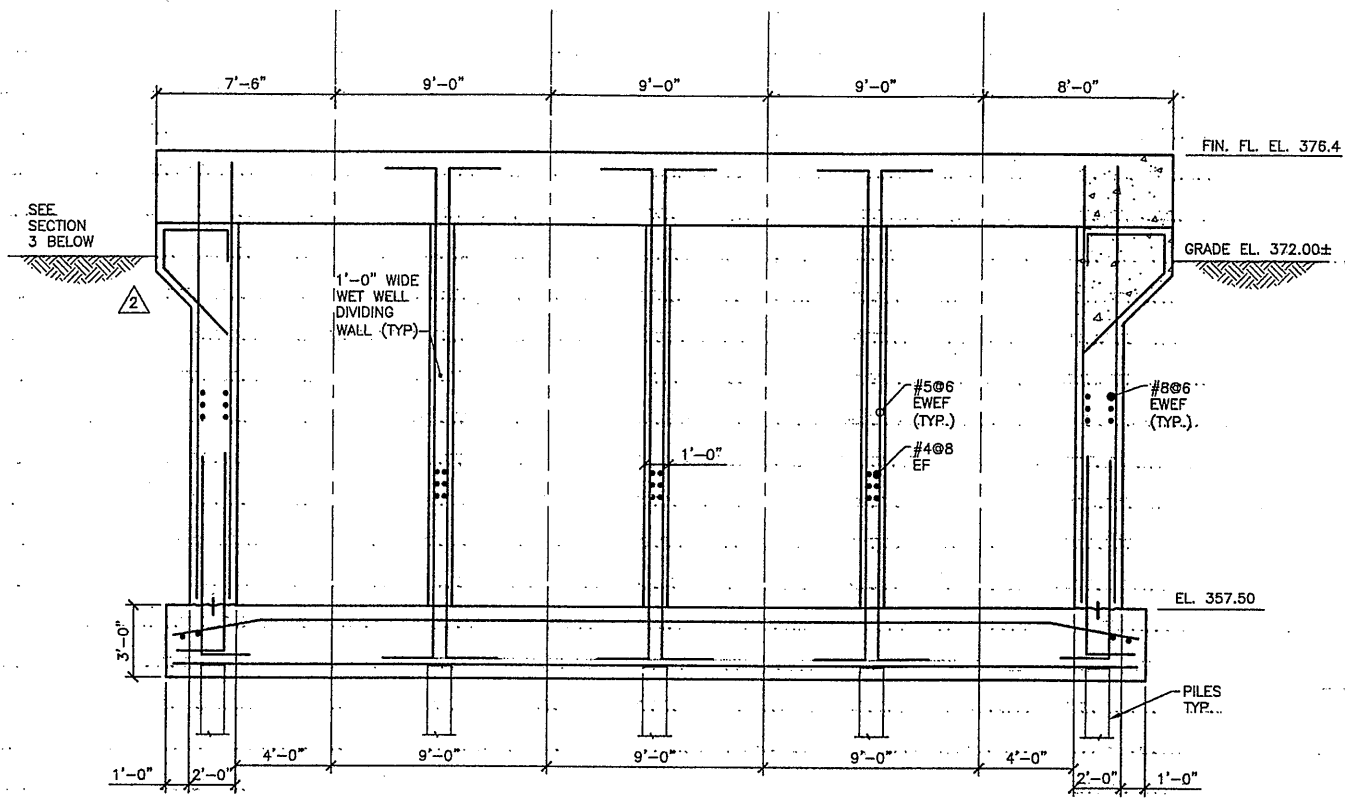


File Number: 00659
Date: APRIL 2001
S-005

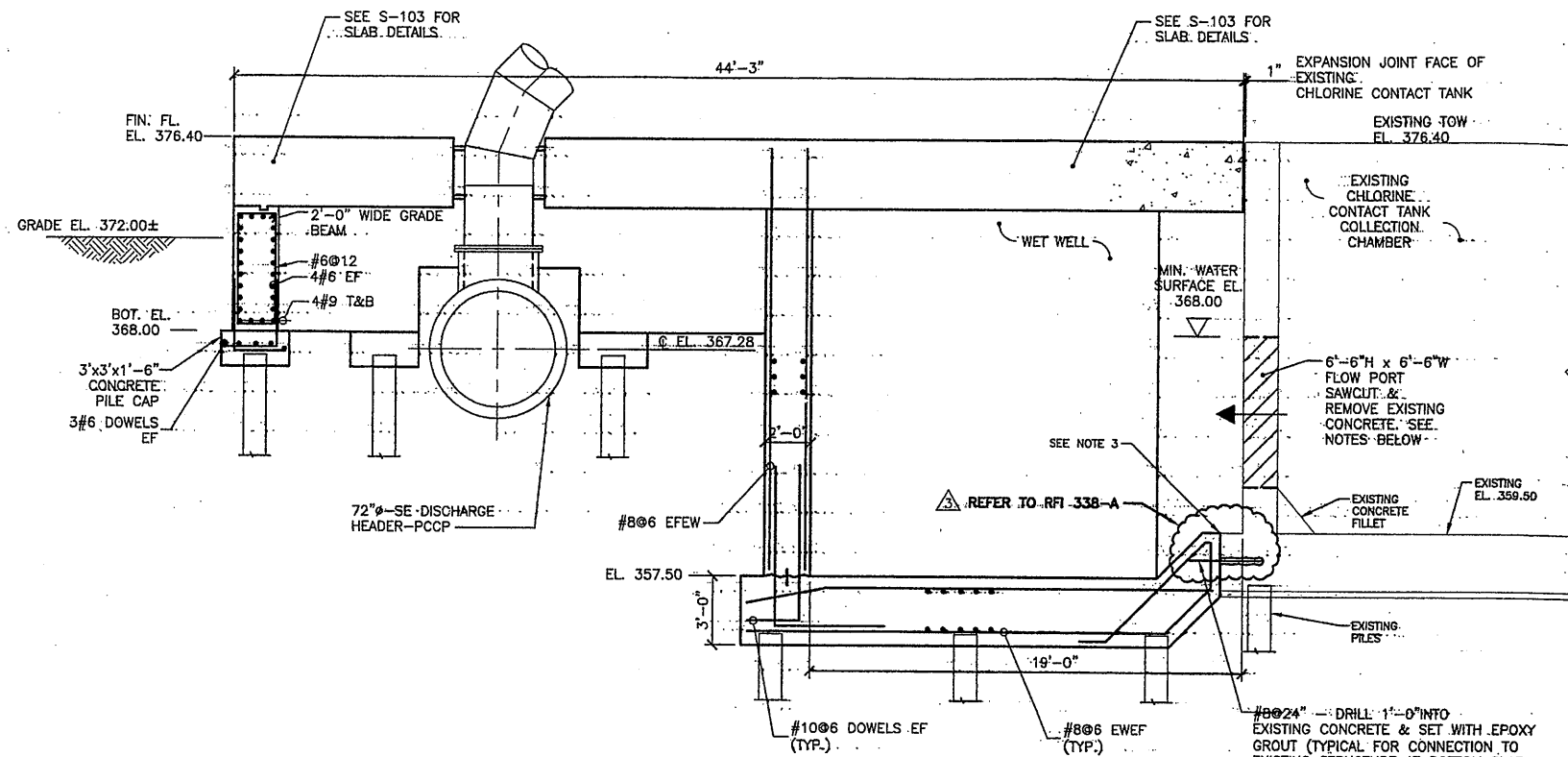
STANDARD DETAILS
STRUCTURAL

RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/12/05 PER: RCG

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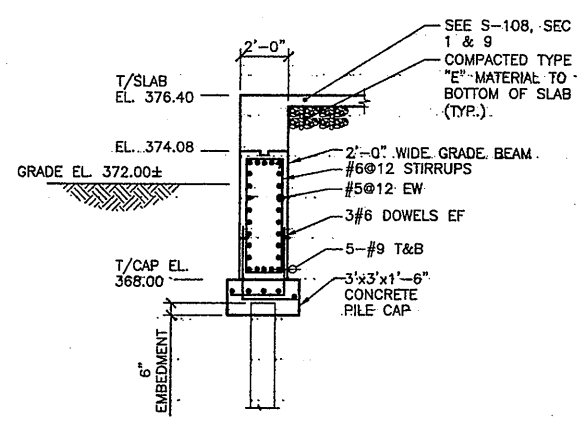


SECTION 4
SCALE: 1/4"=1'-0" S-101

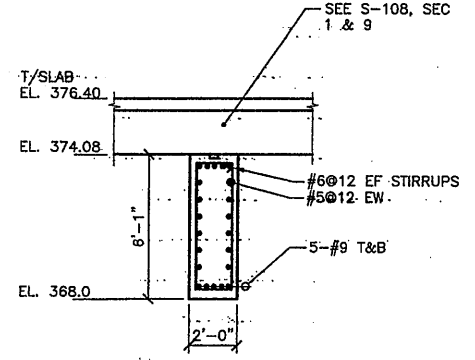


SECTION 5
SCALE: 1/4"=1'-0" S-101

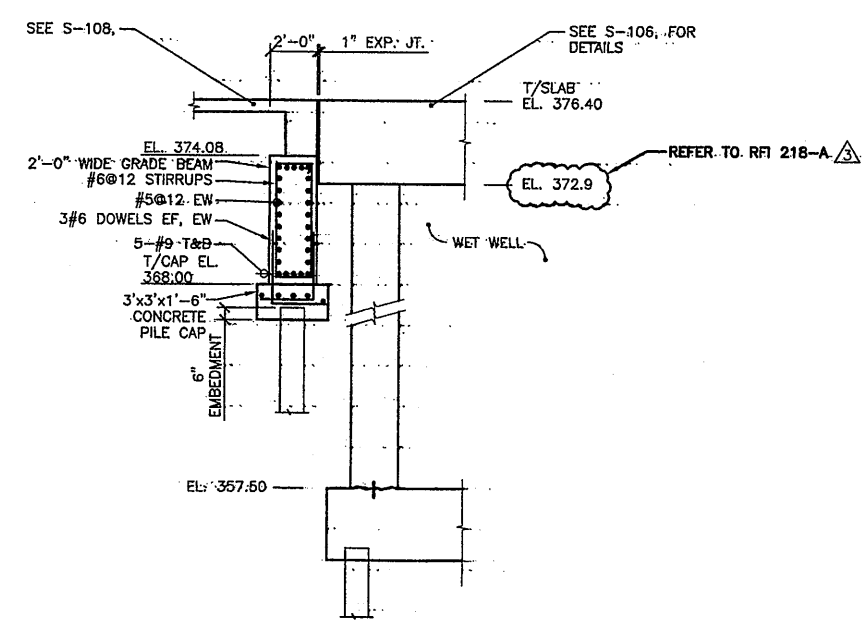
- NOTES:**
1. THE EXISTING CHLORINE CONTACT BASIN SHALL REMAIN IN SERVICE DURING THE ENTIRE PROJECT.
 2. SAWCUT AND REMOVE THE 6'-6" H x 6'-6" W FLOW POINTS AT 4 LOCATIONS. DRILL EXISTING REBAR BACK 2" AND PLUG WITH NON-SHRINK GROUT.
 3. CLEAN AND ROUGHEN EXISTING SURFACE TO 1/2" AMPLITUDE AND APPLY EPOXY BONDING AGENT AND BENTONITE WATER STOP (TYPICAL FOR CONNECTION TO EXISTING STRUCTURE AT BOTTOM SLAB AND TWO SIDE WALLS).
 4. WET WELL PERIMETER AND DIVIDER WALLS SHALL EXTEND TO BOTTOM OF STRUCTURE ABOVE.



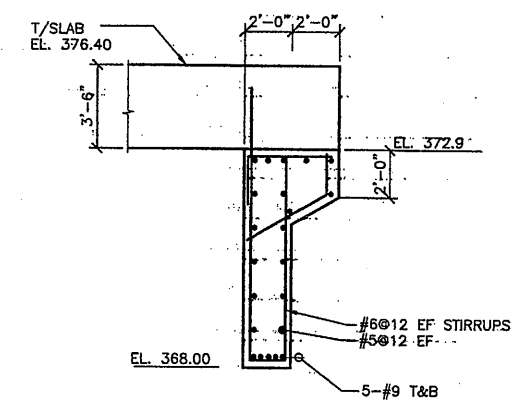
SECTION 1
SCALE: 1/4"=1'-0" S-101



SECTION 2
SCALE: 1/4"=1'-0" S-101



SECTION 3
SCALE: 1/4"=1'-0" S-101

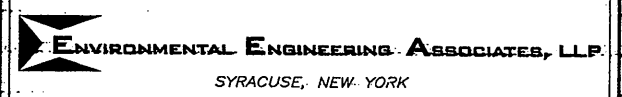


SECTION 6
SCALE: 1/4"=1'-0" S-101

Layer: ON=; OFF=REF*
04/10/01 OBG PWW
05503000/00659S102.DWG

No.	Date	Revisions	Init
0	8/20/01	ISSUED FOR APPROVAL	
1	7/4/01	AS BID	
2	3/22/02	REVISED FOR MODIFICATION QN. 4A-003	
3	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
Designed by: TWS
Drawn by: PWW
Checked by: CMT



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
SECONDARY EFFLUENT PUMPING STATION

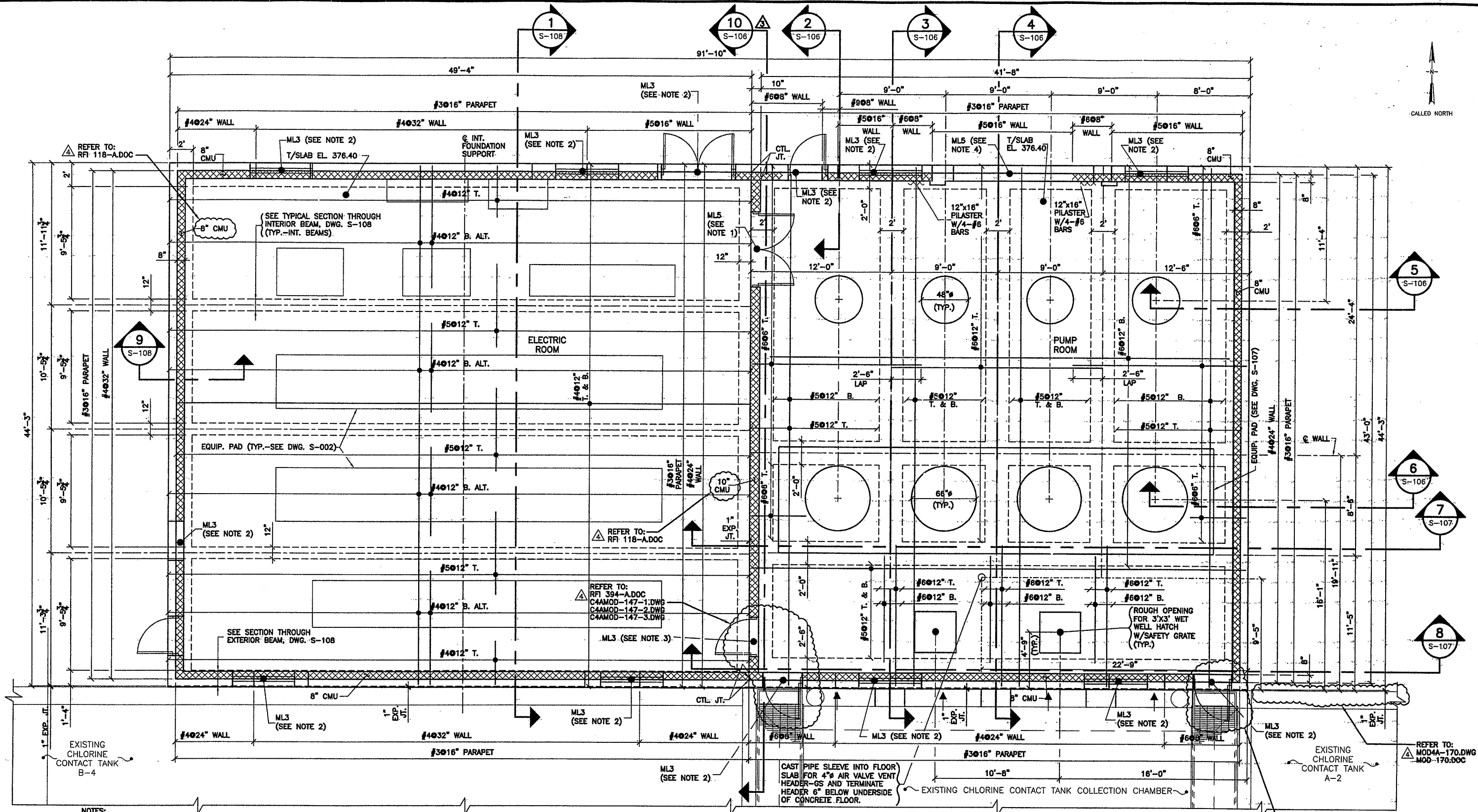
RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/12/05 PER: RCG

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File No: 00659
Date: APRIL 2001
S-102

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

SECTIONS
STRUCTURAL



PLAN AT ELEV. 376.40
SCALE: 1/4"=1'-0"

- NOTES:**
- USE W8x28 W/ 5/8" BOT. R. AND 3/8" TOP R. ATTACH CMU TO TOP OF LINTEL W/ 3/4"x6" LONG STUD ANCHORS AT 2'-0" O.C.
 - USE W8x15 W/ 3/8" BOT. R. CENTER W-BEAM IN CMU WHEN INSULATED PANELS ARE USED ABOVE. OTHERWISE, CENTER IN WALL.
 - USE W8x15 W/ 5/8" BOT. R. AND 3/8" TOP R.
 - USE W8x28 W/ 3/8" BOT. R. CENTER W-BEAM IN CMU WHEN INSULATED PANELS ARE USED ABOVE. OTHERWISE, CENTER IN WALL.
 - FOR PUMP STATION ROOF/WALL SECTIONS AND DETAILS, SEE DWG. S-105.
 - FOR PUMP ROOM SECTIONS AND DETAILS, SEE DWGS. S-106 AND S-107.
 - FOR ELECTRIC ROOM SECTIONS AND DETAILS, SEE DWG. S-108.
 - SEE STANDARD STRUCTURAL DETAILS FOR ADDITIONAL REINFORCING REQUIRED AT CONCRETE SLAB OPENINGS.

Layer: ON=*; OFF=*REF*
Xref: 0659x101
06/25/01 BAPC MLW GVN
05503045\0659S103.dwg

RECORD DRAWING

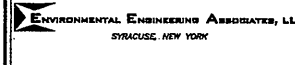
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 4/2/01 PER: RCG

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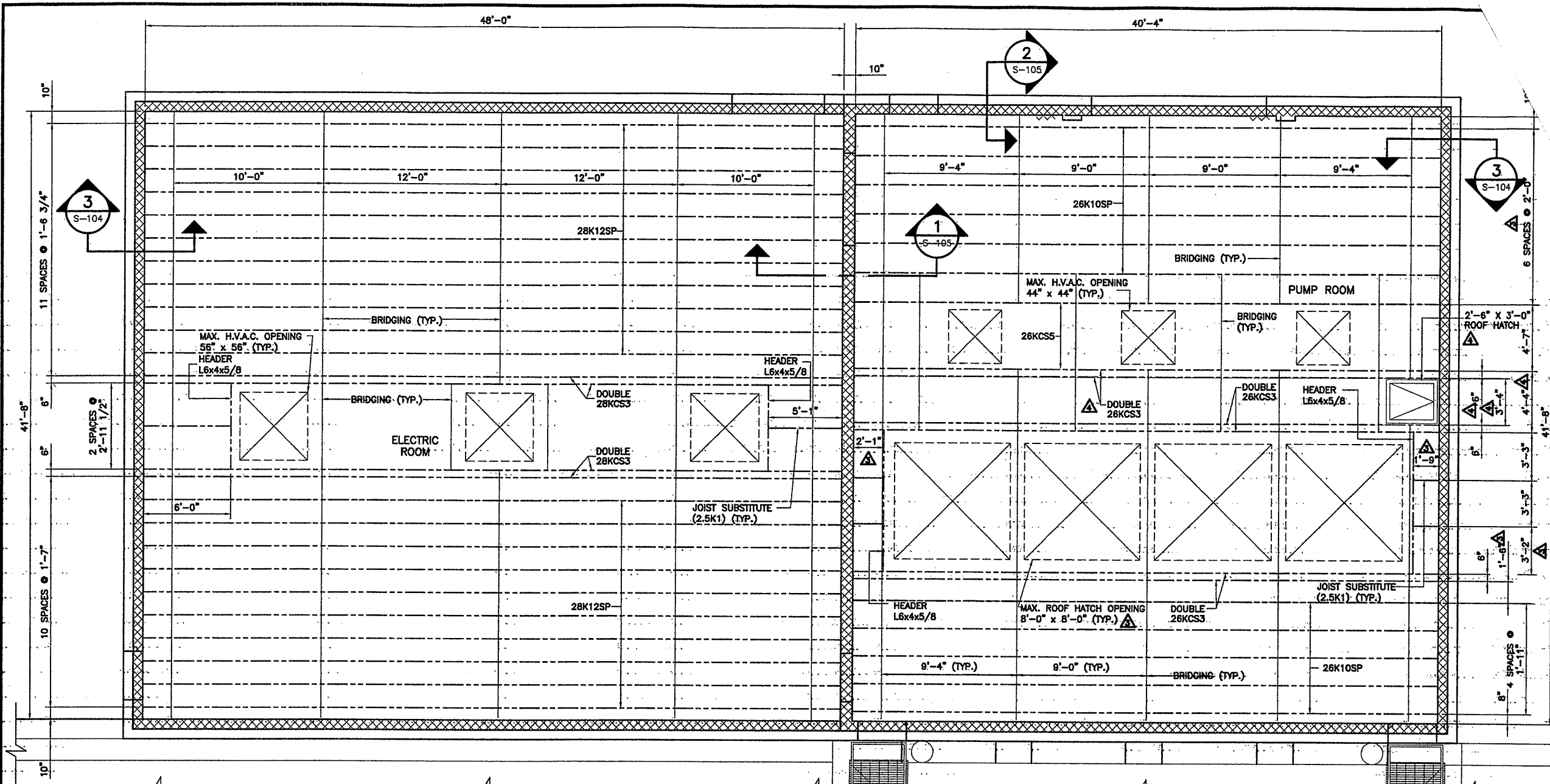
No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1	7/3/01	AS BID	
2	9/25/01	REVISED PER ADDENDUM 3	
3	3/22/02	REVISED FOR MODIFICATION 4A-003	
4	10/31/05	RECORD DRAWING	RCG

In charge of: WFK
Designed by: GVN
Drawn by: MLW
Checked by: WAF

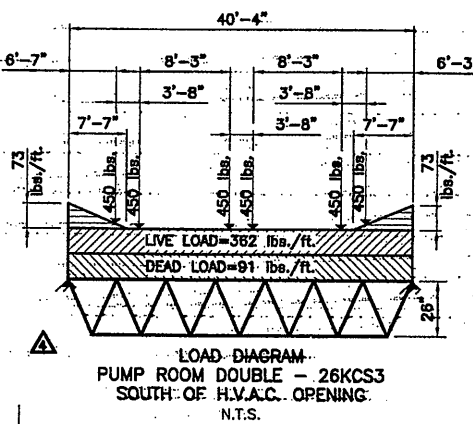


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
SECONDARY EFFLUENT PUMPING STATION FLOOR PLAN
STRUCTURAL

File Number: 00659
Date: APRIL 2001
S-103

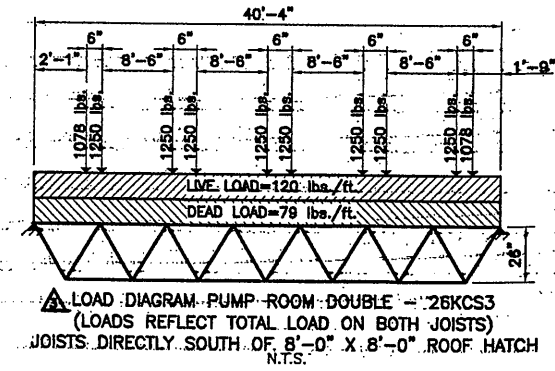
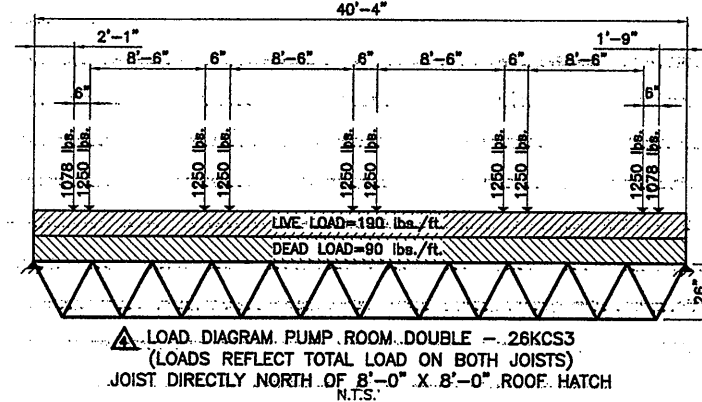
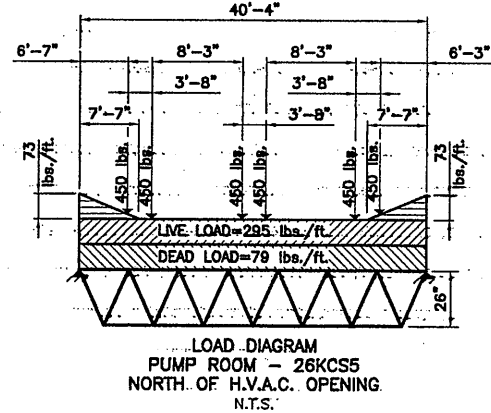
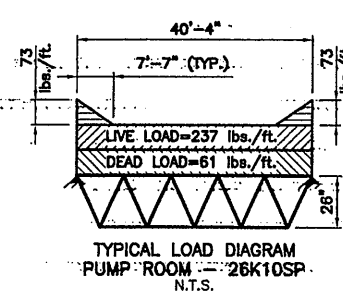
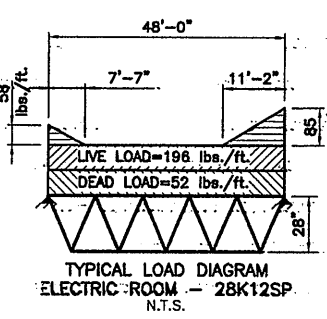
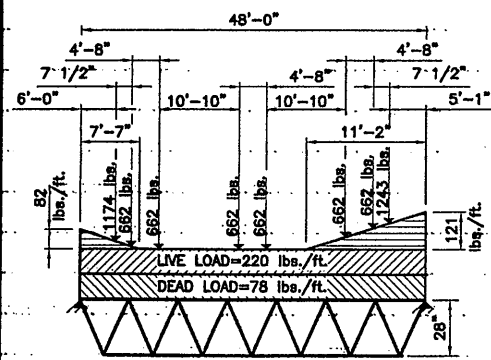


4. ...
5. WHEN ROW DIAGON INTERSE
6. JOISTS RE ATTACHED TO BE FILLET WELDS, 1/8" WITH A COMB 1/8" FILLET WE BOLT AND ONE
7. TOP OF BEARING ELEVATIONS: PUMP ROOM = 401.10 ELECTRIC ROOM = 393.77
8. FOR TYPICAL ROOF OPENING AND HEADER DETAILS, SEE DWG. S-105.



RECORD DRAWING
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 DATE: 12/2/05 PER: RCG

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



Layer: ON=*, OFF=REF*
 Xref: 0659x101
 06/05/01 BAPC MLW RAS
 05503045,0659S104.dwg

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

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1	7/3/01	AS BID	
2	9/25/01	REVISED PER ADDENDUM 3	
3	3/22/02	REVISED PER MODIFICATION 4A-003	
4	7/25/02	ROOF HATCH	
5	10/31/05	RECORD DRAWING	RCG

In. charge of: WFK
 Designed by: RAS
 Drawn by: MLW
 Checked by: WAF

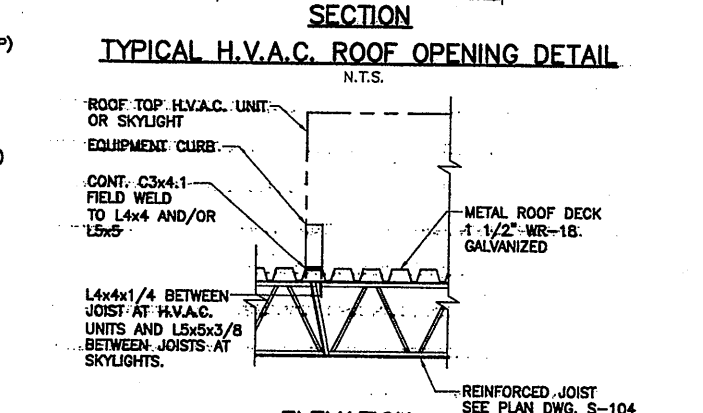
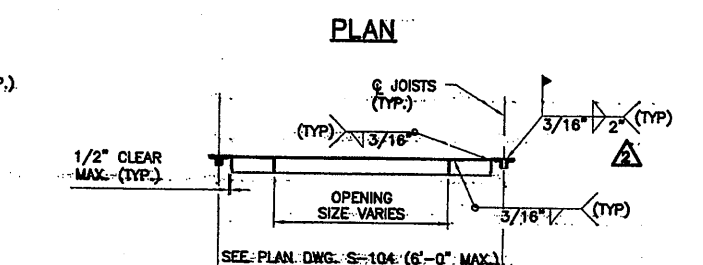
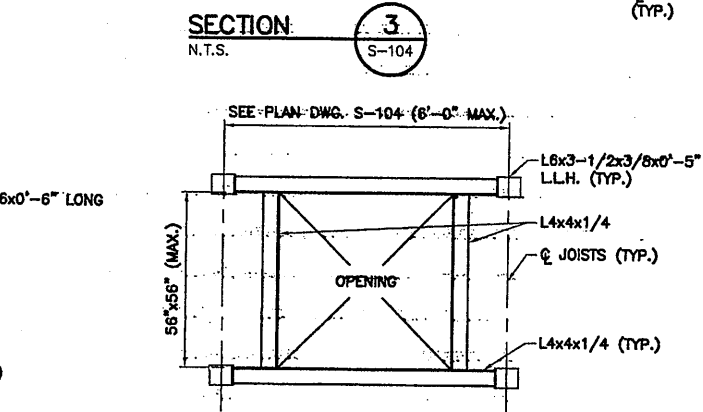
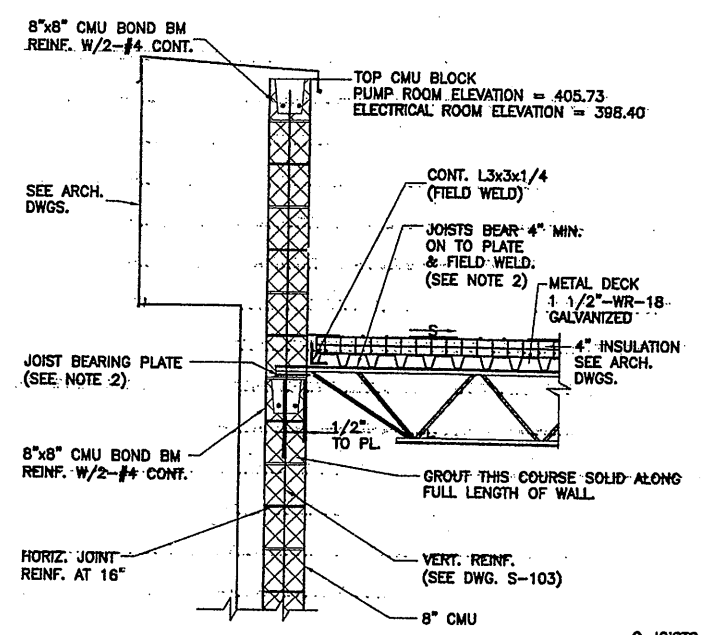
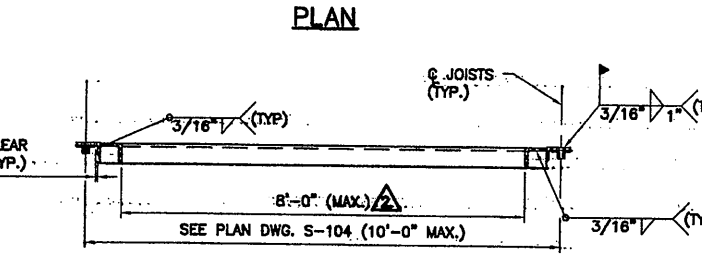
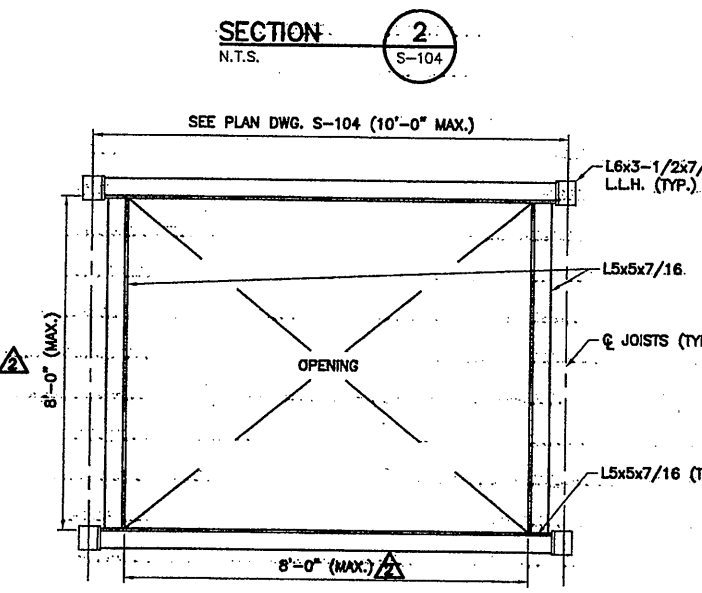
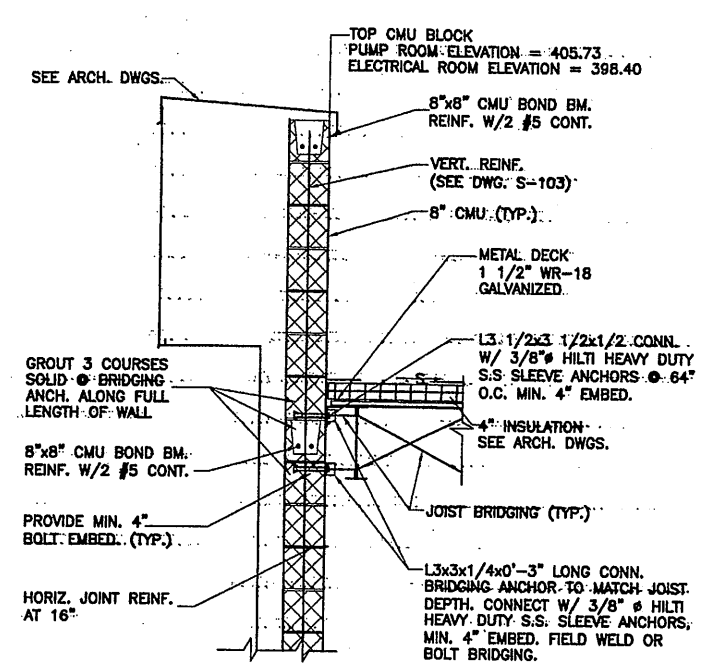
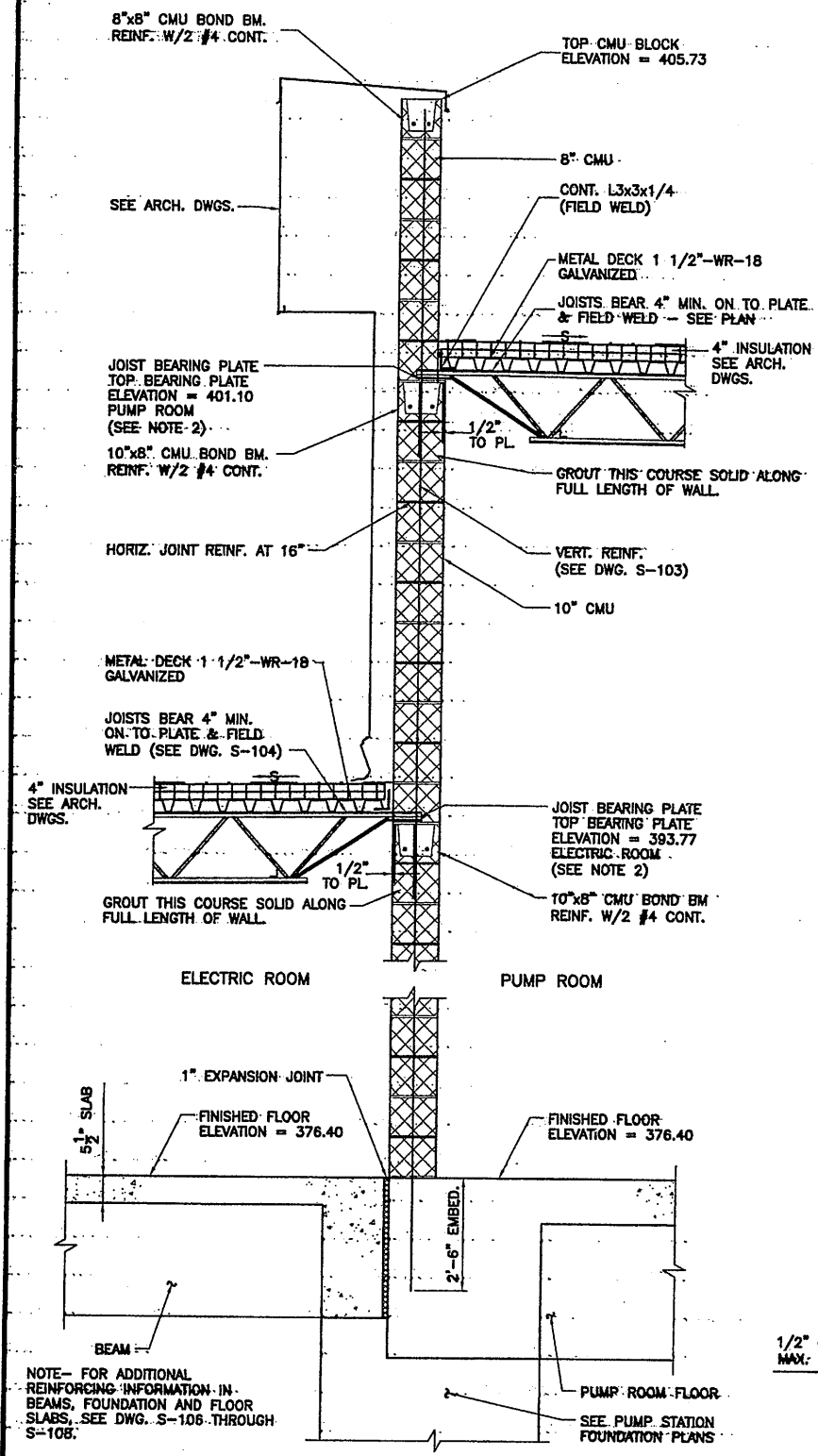
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

BRYANT ASSOCIATES, P.C.
 Engineers - Surveyors
 SYRACUSE EAST AURORA

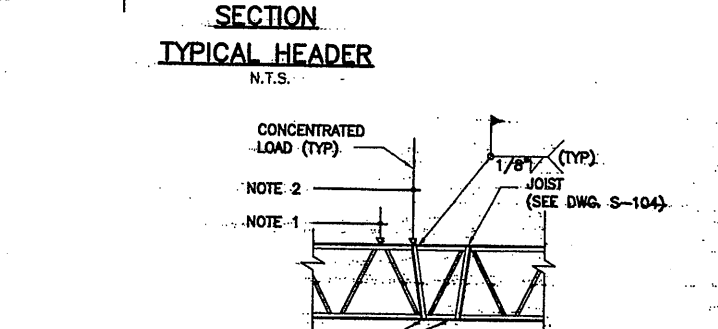
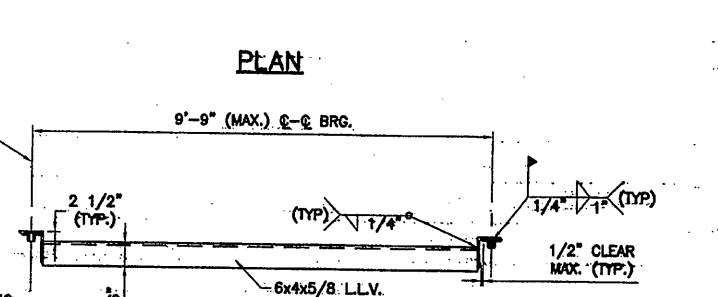
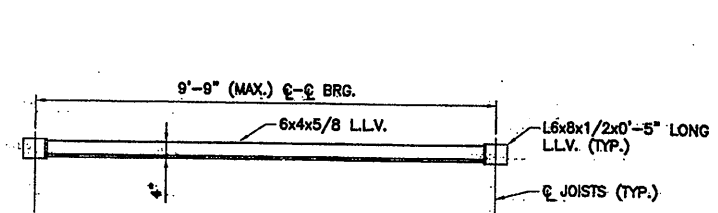
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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
**SECONDARY EFFLUENT PUMPING STATION
 ROOF FRAMING PLAN**
 STRUCTURAL

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

File Number: 00659
 Date: APRIL 2001
 S-104



- NOTES:**
1. EXP. BOLTS SHALL BE HILTI, STAINLESS OR APPROVED EQUAL.
 2. SINGLE JOIST BEARING PLATES SHALL BE 6"x8"x1/2" W/ (2) 1/2" # HEADED STUDS 16" LONG, 6" GAGE. DOUBLE JOIST BEARING PLATES SHALL BE 6"x14"x1/2" W/ (3) 1/2" # HEADED STUDS 16" LONG, 5" GAGE.
 3. ROOF TOP UNIT TO BE ANCHORED TO SUPPORT FRAMING PER MANUFACTURER'S REQUIREMENTS TO MEET CODE REQ'D. WIND LOADING.
 4. COORDINATE SIZE AND LOCATION OF ROOF OPENINGS WITH ACTUAL EQUIPMENT SELECTED.



- TYP. CONCENTRATED LOAD DETAIL**
- POINT LOADS (SEE DWG. S-104 FOR LOAD DIAGRAMS)
- PUMP ROOM:**
- H.V.A.C. UNITS F-104, F-105, F-106
 - CONCENTRATED LOAD= 450 LBS.
- HEADERS:**
- CONCENTRATED LOAD= 1,078 LBS.
- SKYLIGHTS:**
- CONCENTRATED LOAD= 1,250 LBS.
- ELECTRICAL ROOM:**
- H.V.A.C. UNITS F-101, F-102, F-103
 - CONCENTRATED LOAD= 662 LBS.
- HEADERS:**
- CONCENTRATED LOAD= 1,243 LBS.

- NOTES:**
1. CONCENTRATED LOAD LOCATED AT JOIST PANEL POINT LOCATION - NO ADDITIONAL ANGLES REQ'D.
 2. CONCENTRATED LOAD (100 LBS. OR HEAVIER) NOT LOCATED AT JOIST PANEL POINT LOCATION - PROVIDE L1x1x1/8 TO PANEL POINT AS SHOWN.
 3. WEB STIFFENERS MUST BE FIELD APPLIED AT ALL CONCENTRATED LOADS OCCURRING AT JOIST PANEL POINTS. THIS APPLIES TO STANDARD AND SPECIAL JOIST.

Layer: ON=*, OFF=*REF*
 Xref:
 06/05/01 BAPC MLW VSB SJB RAS
 05503045/0659S105.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1	7/3/01	AS BID	
2	3/22/02	REVISED FOR MODIFICATION 4A-003	
3	10/31/05	RECORD DRAWING	RCG

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DATE: 11/17/05 PER: RCG

IN CHARGE OF: WFK
 DESIGNED BY: RAS
 DRAWN BY: MLW
 CHECKED BY: WAF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

BRYANT ASSOCIATES, P.C.
 ENGINEERS - SURVEYORS
 SYRACUSE, NEW YORK

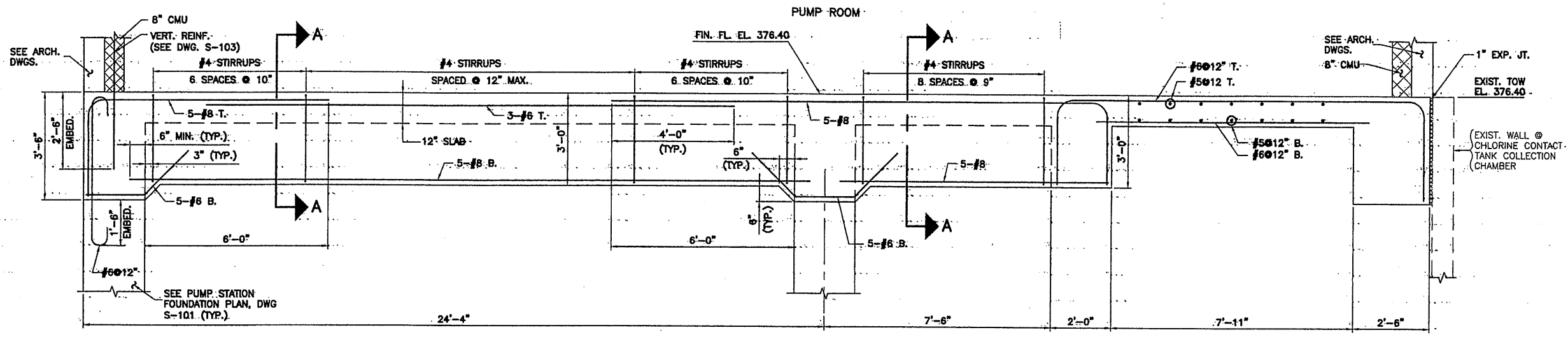
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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

SECONDARY EFFLUENT PUMPING STATION SECTIONS AND DETAILS

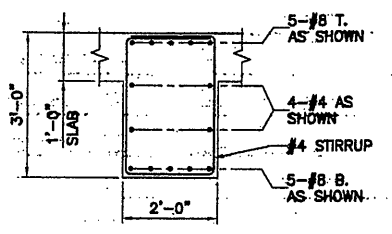
STRUCTURAL

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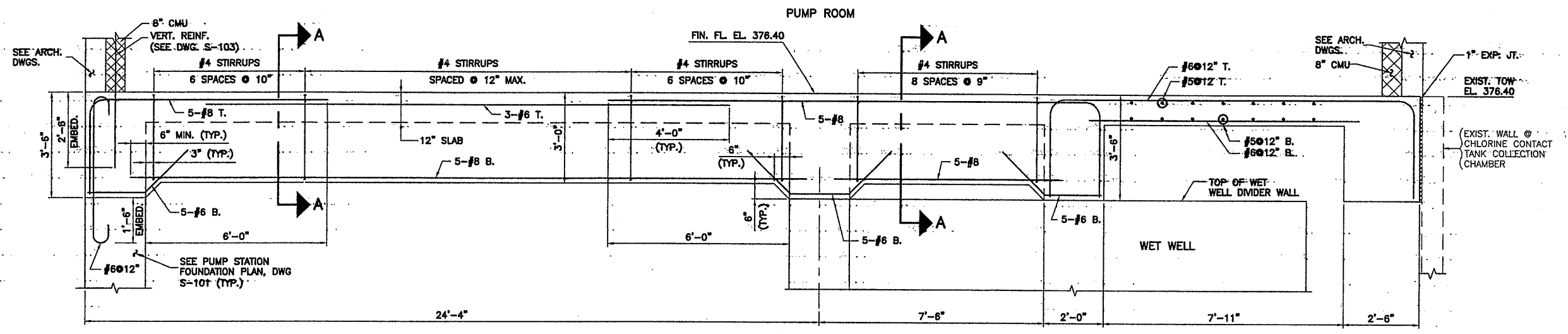
File Number: 00659
 Date: APRIL 2001
 S-105



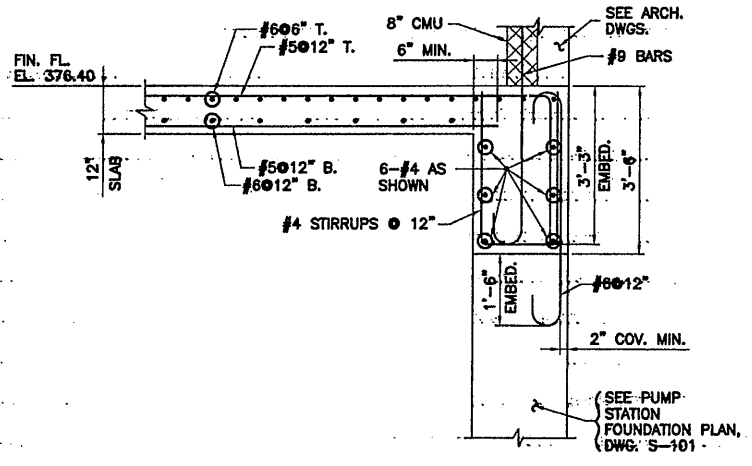
SECTION 3
SCALE: 1/2" = 1'-0" S-103



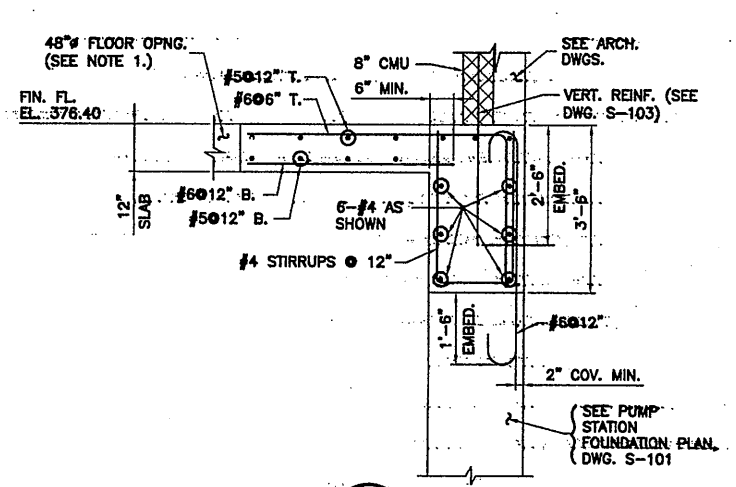
SECTION A-A
SCALE: 1/2" = 1'-0"



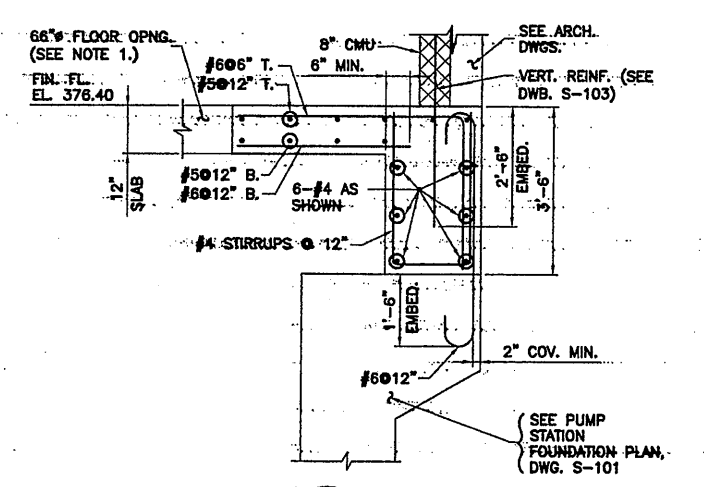
SECTION 4
SCALE: 1/2" = 1'-0" S-103



SECTION 2
SCALE: 1/2" = 1'-0" S-103



SECTION 5
SCALE: 1/2" = 1'-0" S-103



SECTION 6
SCALE: 1/2" = 1'-0" S-103

NOTES:
1. SEE STANDARD STRUCTURAL DETAILS, DWG. S-002, FOR ADDITIONAL REINFORCING REQUIRED AT CONCRETE SLAB OPENINGS.

RECORD DRAWING

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DATE: 12/2/05 PER: RCG

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05503045/0659S106.DWG

No.	Date	Revisions	Init.
0	4/20/01	ISSUED FOR APPROVAL	
1	7/3/01	AS BID	
2	10/31/05	RECORD DRAWING	RCG

In. charge of: WFK
Designed by: GVN
Drawn by: GVN
Checked by: WAF

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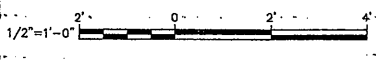
SECONDARY EFFLUENT PUMPING STATION SECTIONS AND DETAILS

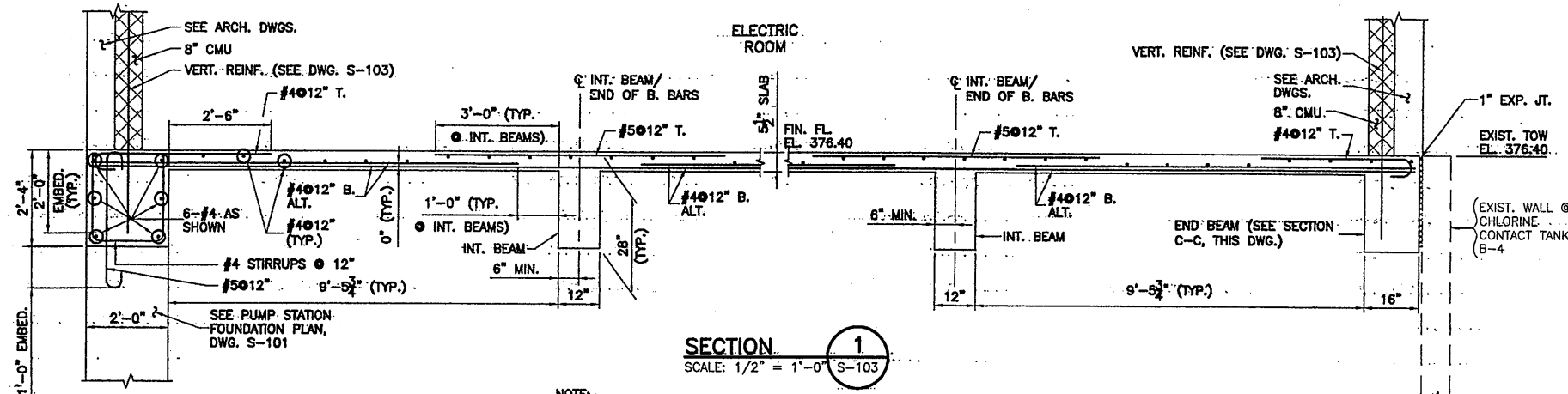
STRUCTURAL



File Number: 00659
Date: APRIL 2001
S-106

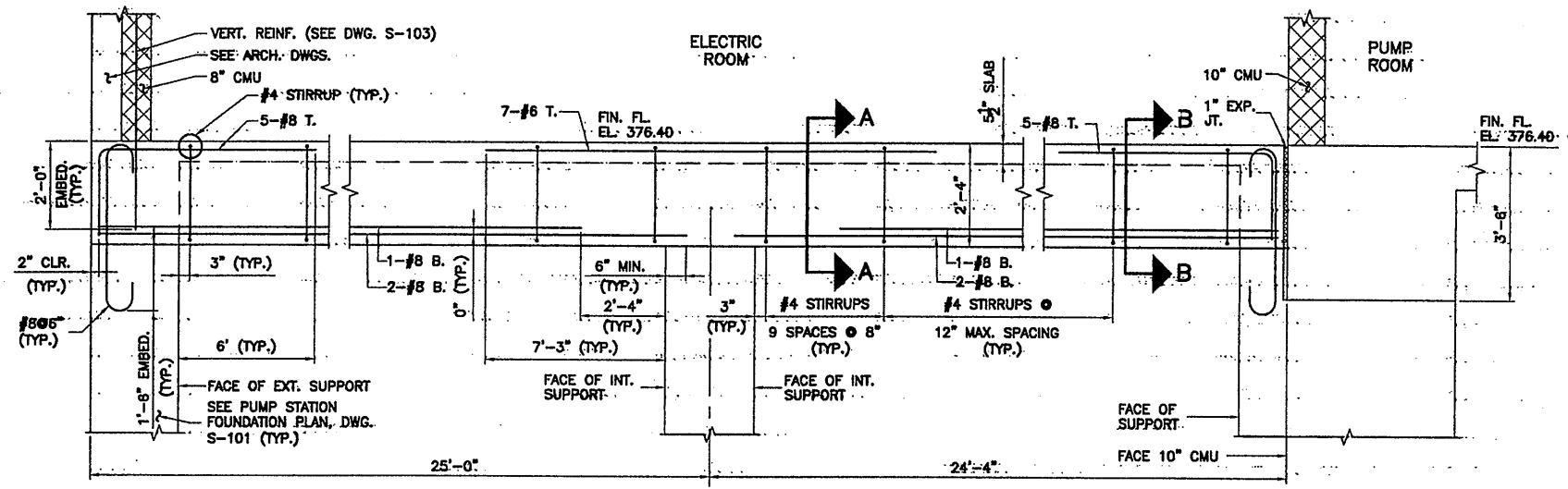
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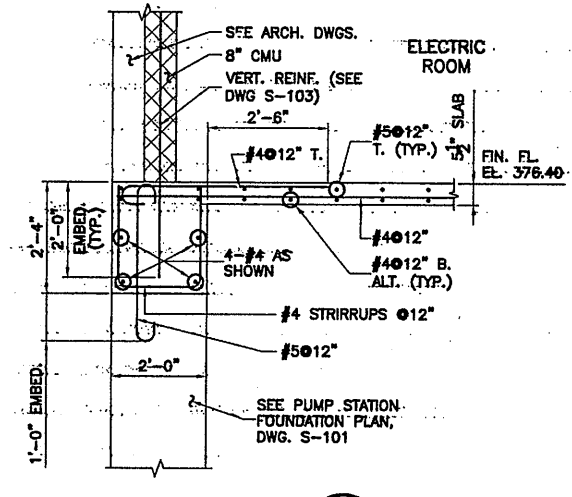


SECTION 1
SCALE: 1/2" = 1'-0" S-103

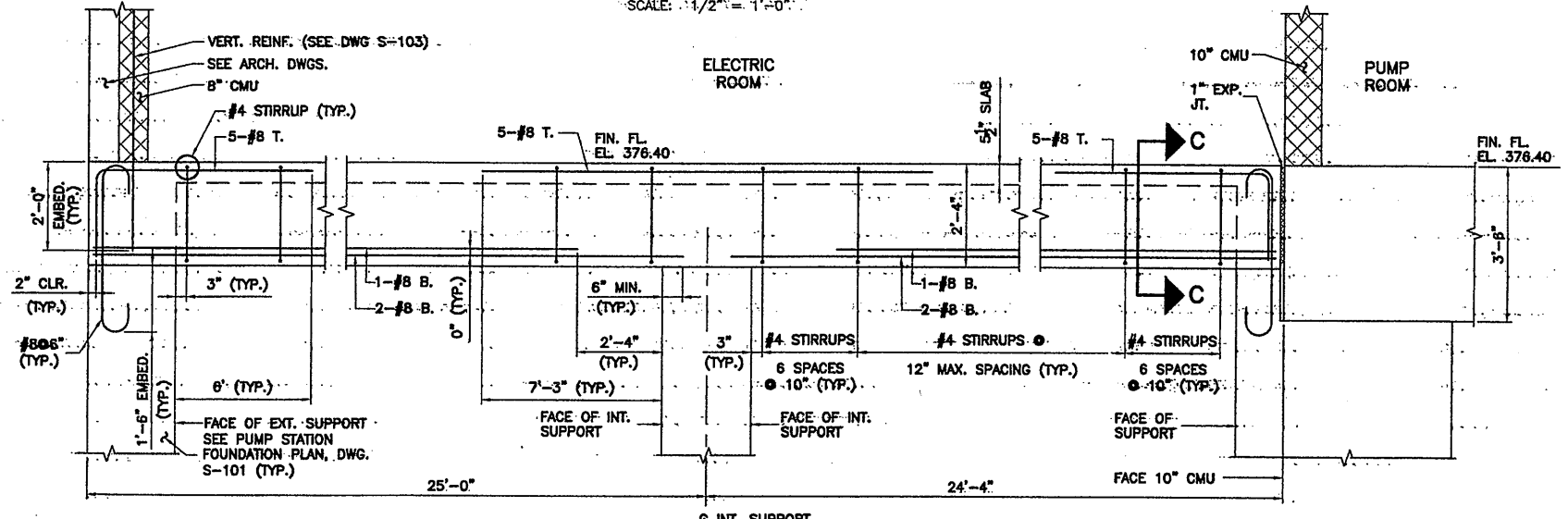
NOTE:
FOR BEAM REINFORCING, SEE SECTIONS A-A, B-B AND C-C, THIS DRAWING.



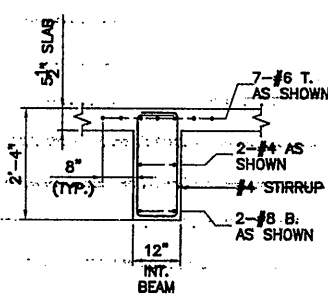
TYPICAL SECTION THROUGH INTERIOR BEAM
SCALE: 1/2" = 1'-0"



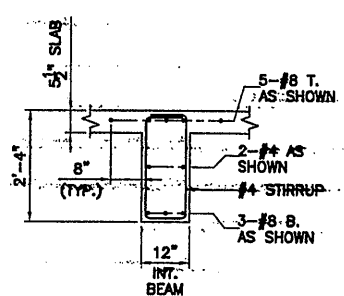
SECTION 9
SCALE: 1/2" = 1'-0" S-103



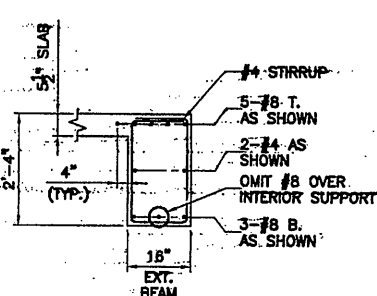
SECTION THROUGH EXTERIOR BEAM @ CHLORINE CONTACT TANK
SCALE: 1/2" = 1'-0"



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



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

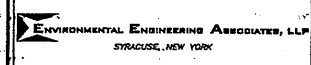


SECTION C-C
SCALE: 1/2" = 1'-0"

Layer: ON=*; OFF=*REF*
Xref:
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05503045/0659S10B.DWG

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0	4/20/01	ISSUED FOR APPROVAL	
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**SECONDARY EFFLUENT PUMPING STATION
SECTIONS AND DETAILS**

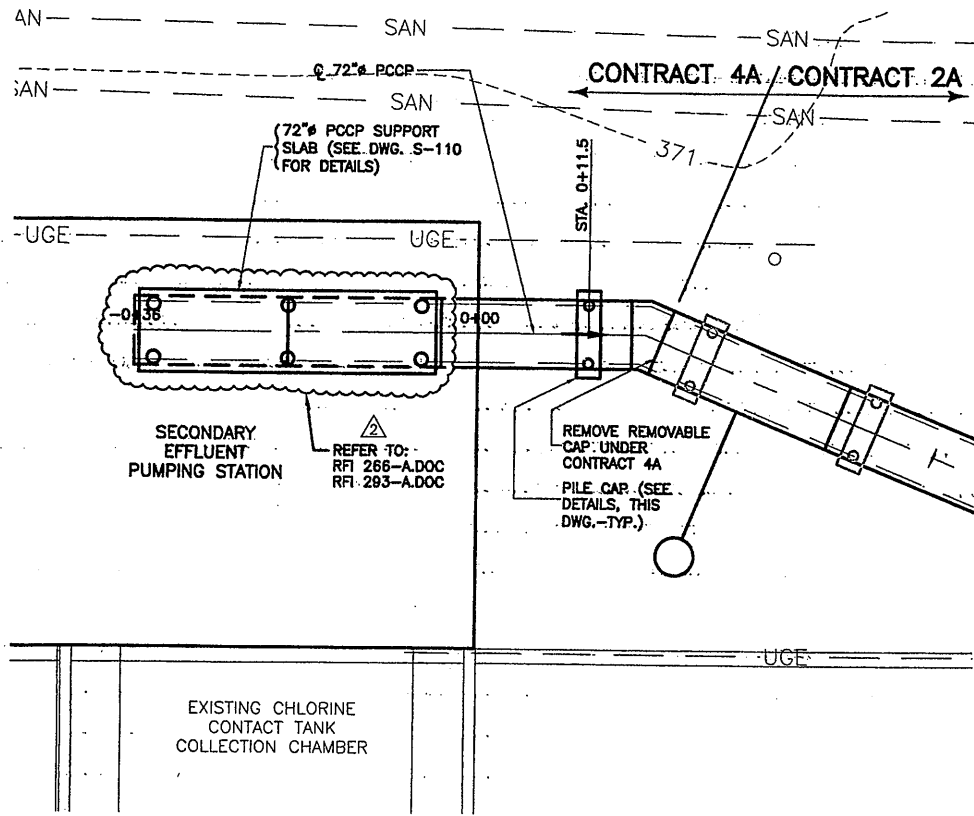
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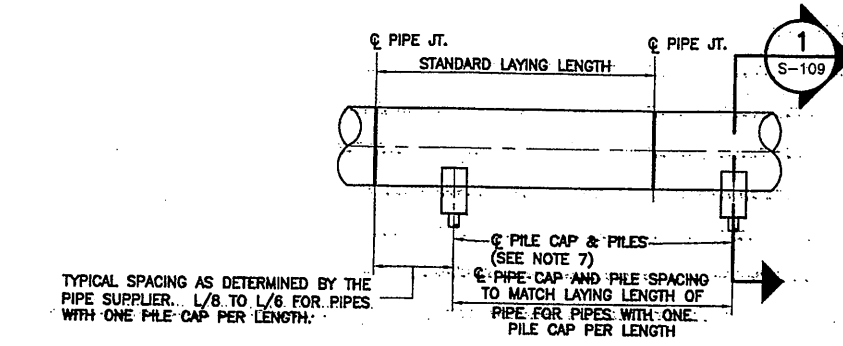
File Number: 00659
Date: APRIL 2001
S-108

RECORD DRAWING
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DATE: 12/2/05 PER: RCG
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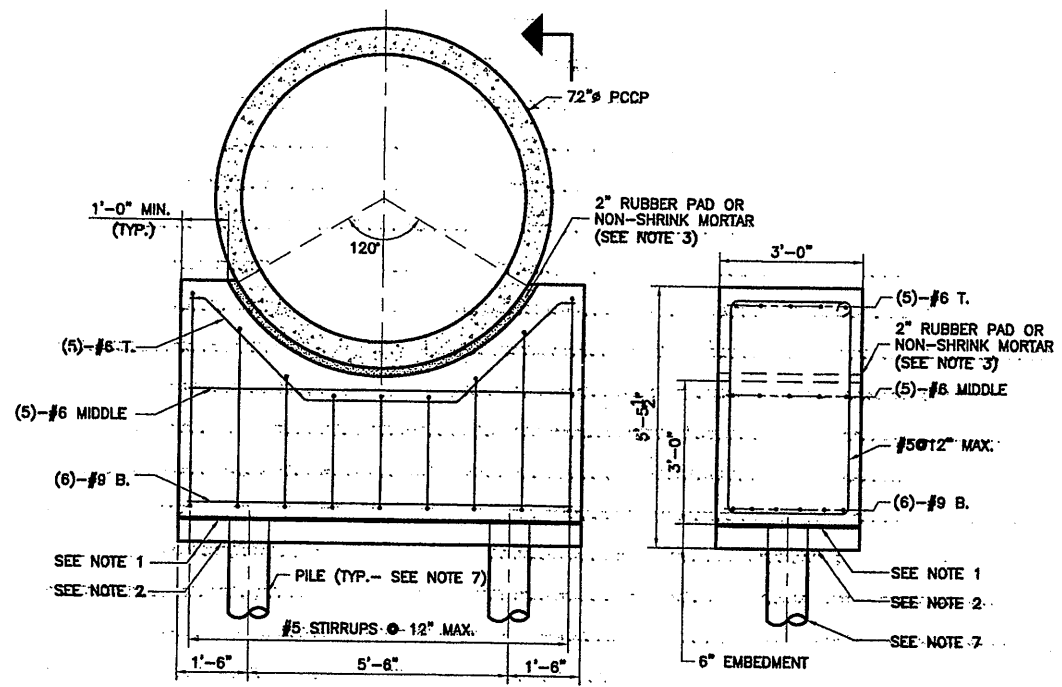
PLAN
SCALE: 1"=10'



TYPICAL SECTION - PRESTRESSED CONCRETE CYLINDER PIPE (PCCP)
N.T.S.

NOTES:

1. REINFORCED CONCRETE PILE CAPS MAY BE EITHER CAST-IN-PLACE OR PRECAST. WITH PRECAST OPTION, USE 3/8" STEEL PLATE WITH TWO ROWS OF FIVE 3/4" X 6" LONG WELDED STUDS. WELD PLATE & TOP OF PILE ALL AROUND WITH 1/4" FILLET WELD.
2. WITH CAST-IN-PLACE OPTION, PROVIDE 6" MINIMUM EMBEDMENT OF PILE INTO CAP.
3. REINFORCED CONCRETE CRADLES MAY BE EITHER CAST-IN-PLACE OR PRECAST. WITH PRECAST OPTION, CRADLES SHOULD BE CAST WITH A CURVATURE THAT IS 2" RADIIALLY LARGER THEN THE LISTED PIPE O.D. A 2" THICK RUBBER PAD OR A LAYER OF FRESH MORTAR SHOULD BE IN PLACE JUST AHEAD OF PLACING THE PIPE. WITH CAST-IN-PLACE OPTION, NO SUCH FILLER IS NEEDED SINCE THE POURED CONCRETE WILL BOND TO THE EXTERIOR OF THE PIPE.
4. PILE CAP DESIGNED FOR A MAXIMUM LOAD, INCLUDING WEIGHT OF PILE CAP, OF 180 TONS (80 TONS PER PILE).
5. SEE PLAN VIEW, THIS SHEET FOR APPROXIMATE LOCATION OF PILE CAPS. FINAL LOCATION OF PILE CAPS TO BE DETERMINED BY PIPE SUPPLIER.
6. THE PCCP SHALL BE DESIGNED ACCORDING TO THE FOLLOWING CRITERIA:
STA. 0+00 TO STA. 0+17.44 - FOR THE DEAD WEIGHT OF THE PIPE, A FULL PIPE (63 PCF) AND 2 FEET OF SOIL.
7. ALL PILES ARE TO BE INSTALLED UNDER CONTRACT 3. ALL PILE CAPS ARE TO BE INSTALLED UNDER CONTRACT 4A.



SECTION 1
S-109

SECTION 2
S-109

TYPICAL PILE CAP - PRESTRESSED CONCRETE CYLINDER PIPE (PCCP)

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

Layer: ON=*, OFF=REF*
Xref: 0659x048, 0659x049
06/05/01 BAPC MLW
05503045/0659S109.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**72" SECONDARY EFFLUENT FORCE MAIN
PLAN, SECTIONS AND DETAILS**

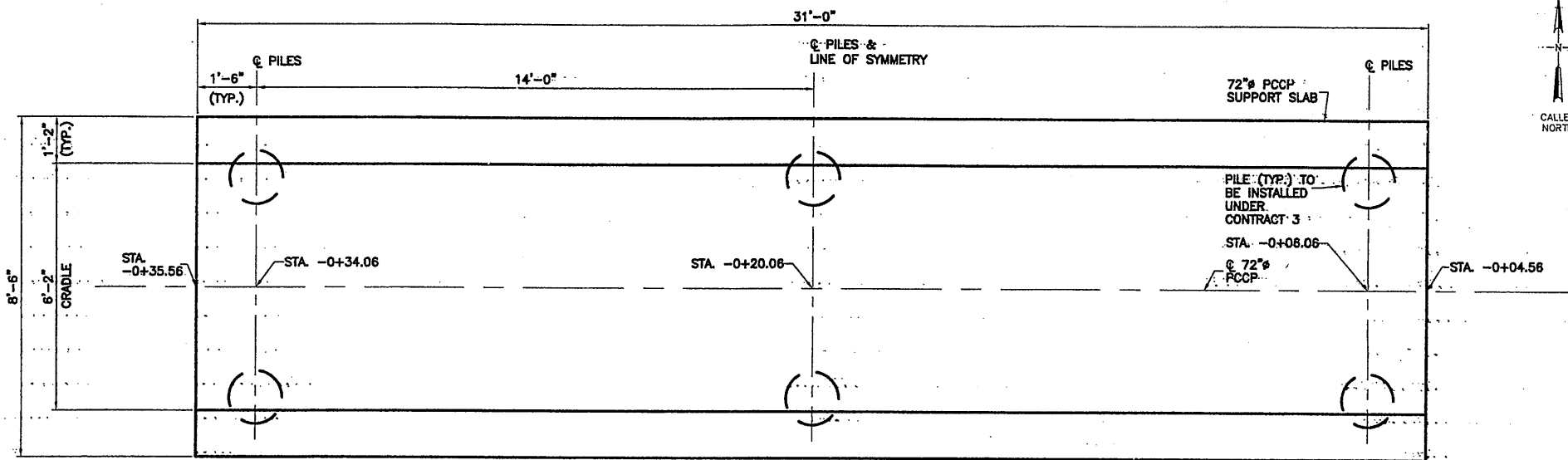
STRUCTURAL



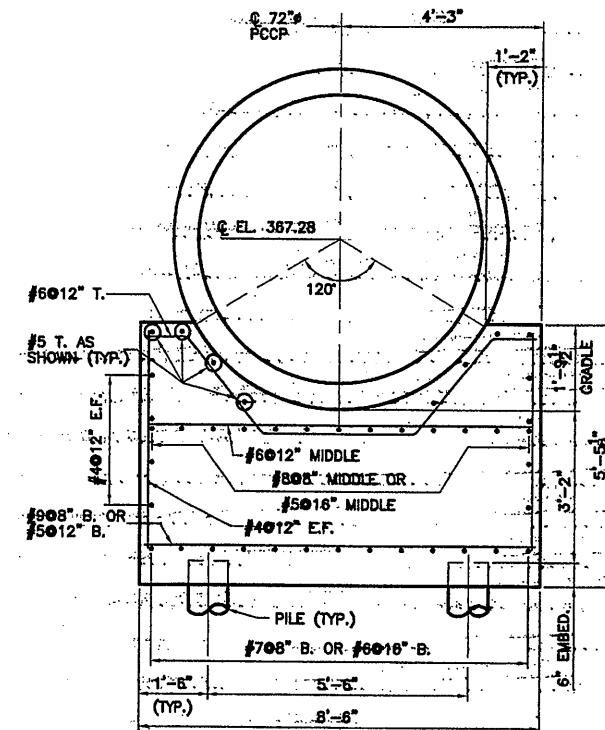
File Number: 00659
Date: APRIL 2001
S-109

RECORD DRAWING
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DATE: 1/12/05 PER: RCG

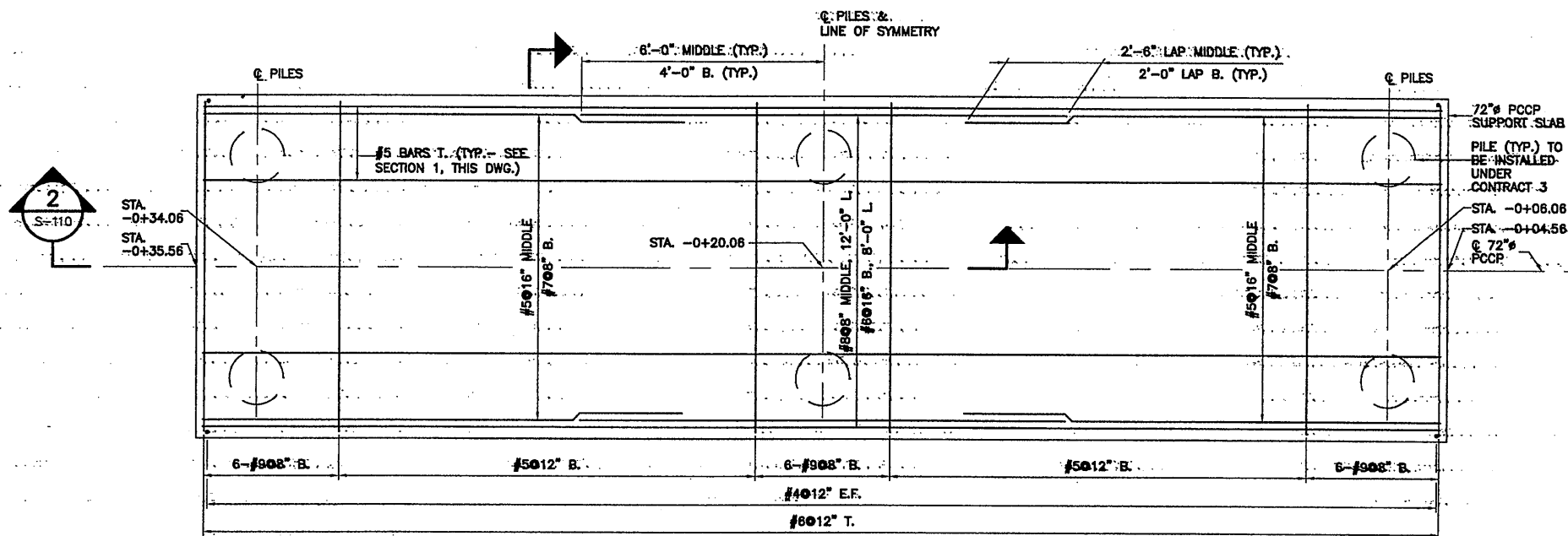
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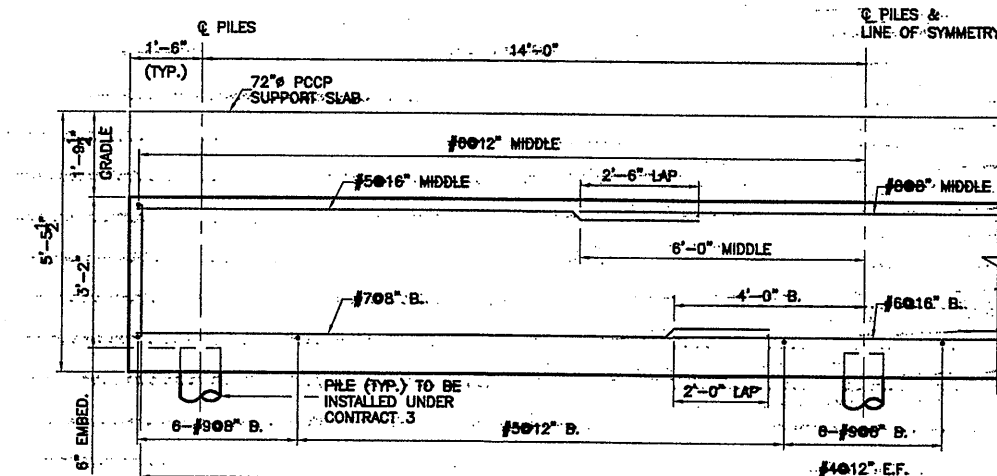
PLAN
SCALE: 1/2" = 1'-0"



SECTION 1
SCALE: 1/2" = 1'-0" S-110



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



SECTION 2
SCALE: 1/2" = 1'-0" S-110

Layer: ON=*, OFF=*REF*
Xref: 06/05/01 BAPC MLW
05503045/0659S110.DWG

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0	4/20/01	ISSUED FOR APPROVAL	
1	7/3/01	AS BID	
2	10/31/05	RECORD DRAWING	RCG

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Designed by: WAF
Drawn by: MLW
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SYRACUSE, NEW YORK

BRYANT ASSOCIATES, P.C.
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SYRACUSE, NEW YORK

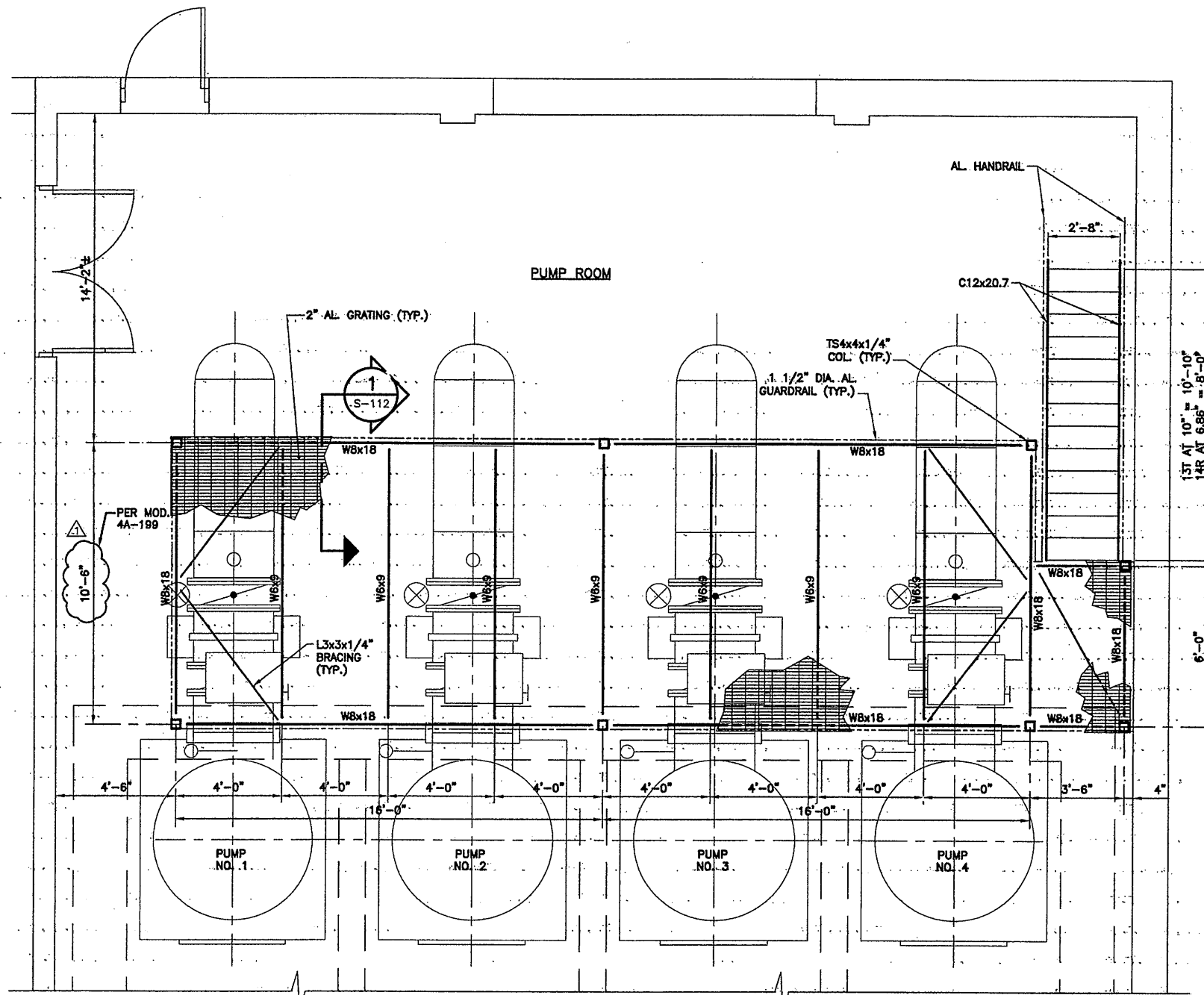
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
72" SECONDARY EFFLUENT FORCE MAIN SUPPORT SLAB DETAILS
STRUCTURAL

File Number: 00659
Date: APRIL 2001

S-110

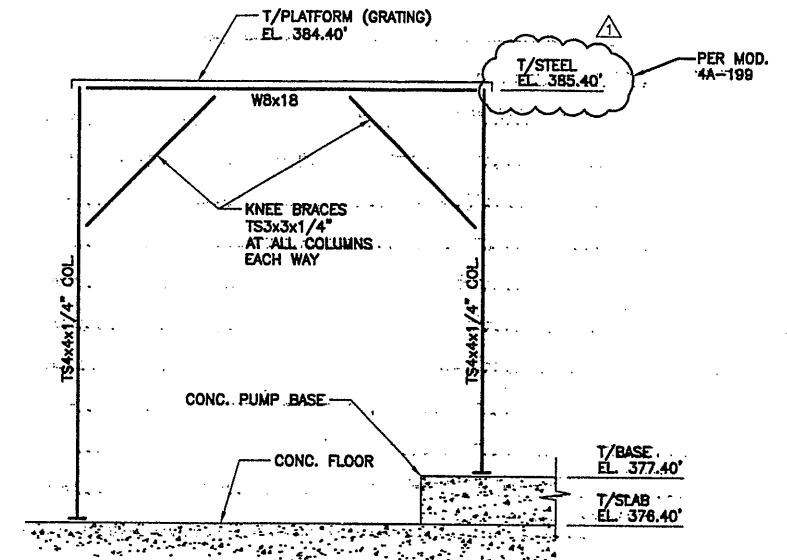
RECORD DRAWING
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DATE: 12/13/05 PER: RCG

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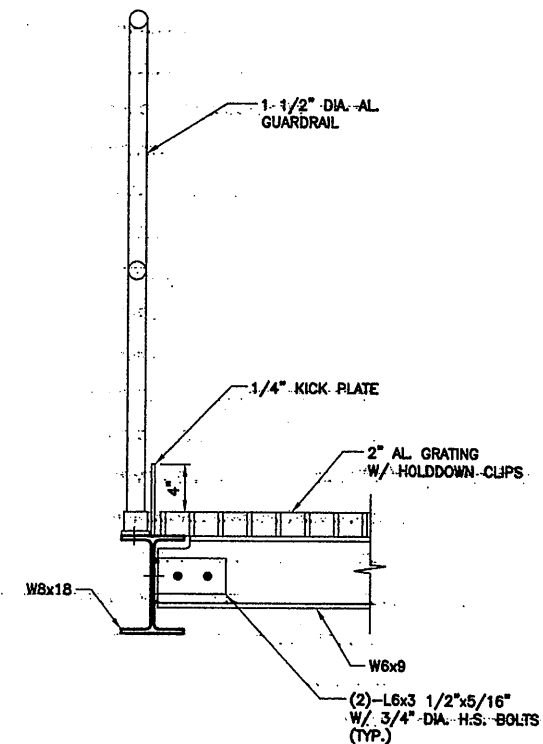


PLATFORM FRAMING PLAN
SCALE: 3/8"=1'-0"

- PLAN NOTES:**
1. SEE M-101 AND M-102 FOR LOCATION.
 2. COORDINATE PLATFORM HEIGHT & LOCATION WITH PUMP EQUIPMENT SUPPLIED.



TYPICAL PLATFORM FRAMING ELEVATION
SCALE: 1/2"=1'-0"



TYP. SECTION 1
SCALE: 1 1/2"=1'-0"

RECORD DRAWING

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0659X101.DWG
7/3/01 OBG RAE
0659X111.DWG

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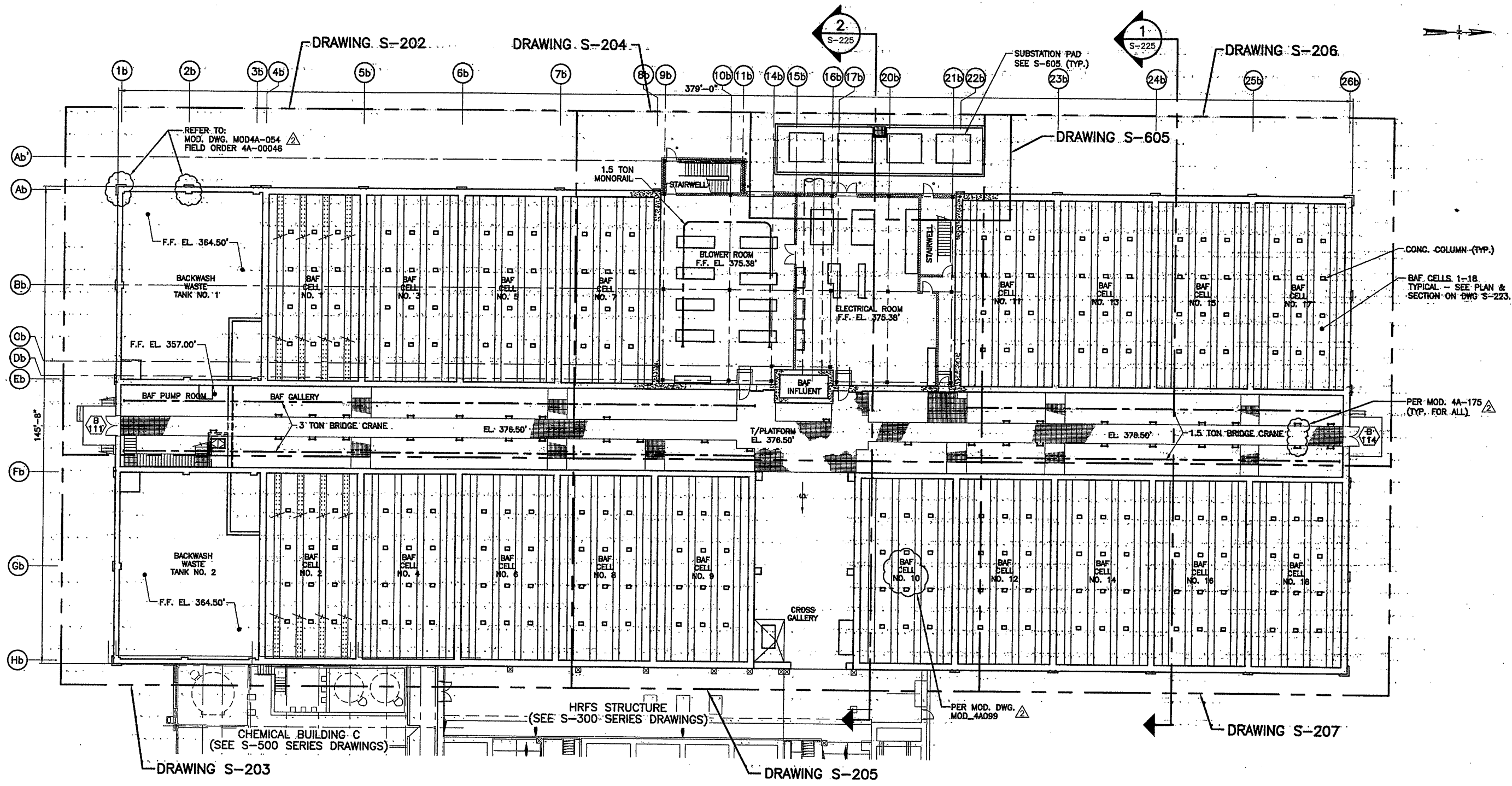
No.	Date	Revisions	Init
0		AS-BID	RCG
1	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
Designed by: TWS
Drawn by: RAE
Checked by: CMT

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
SECONDARY EFFLUENT PUMPING STATION
PLATFORM PLAN
SECTION & ELEVATION
STRUCTURAL

File Number: 00659
Date: JUNE 2001
S-111



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

PLAN NOTES:

1. SEE DWG S-224 FOR SUMP & DRAIN TRENCH LOCATIONS AT BAF PUMP ROOM AND BAF GALLERY.
2. ALUMINUM LADDER LOCATIONS (OSHA APPROVED). COORDINATE LOCATIONS WITH EQUIPMENT, PIPING, VALVES, ETC. (36 REQUIRED IN BAF GALLERY).
3. THE RUNWAYS FOR BOTH THE 3-TON AND 1.5-TON BRIDGE CRANES RUNNING THE LENGTH OF THE BAF GALLERY MUST CONTINUE TO THE ELECTRICAL/BLOWER ROOM. EACH BRIDGE CRANE RUNWAY SHALL EXTEND A MINIMUM OF 6' PAST THE EDGE OF THE 40'-8" WIDE CENTER PLATFORM AND MUST BE ABLE TO PLACE LOADS CARRIED BY THE BRIDGE CRANE ONTO THE CENTER PLATFORM.

RECORD DRAWING NOTE:
REFER TO RF 248-A FOR INFORMATION REGARDING CONSTRUCTION JOINTS IN BAF CELLS.

RECORD DRAWING

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DATE: 12/12/05 PER: RCG

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06592201
07/3/01 OBG RAE
06592201

No.	Date	Revisions	Init.
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

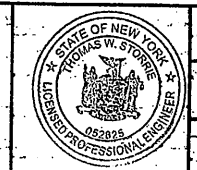
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In. charge of	TWS
Designed by	CMT
Drawn by	RAE
Checked by	TWS

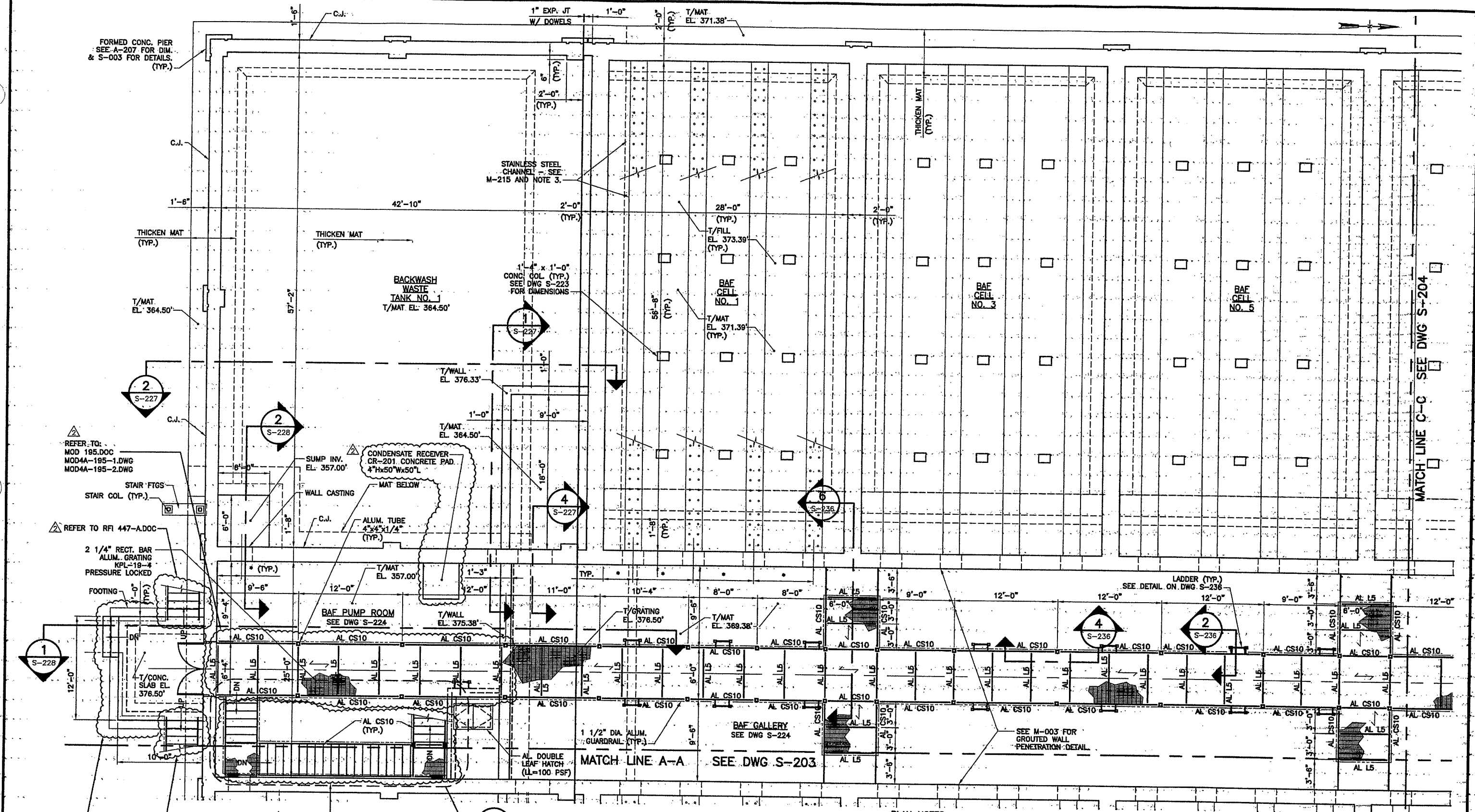
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**GENERAL OVERALL
BAF FOUNDATION PLAN**
STRUCTURAL



File Number	00659
Date	APRIL 2001
Project	S-201



PARTIAL FOUNDATION PLAN
SCALE: 3/16"=1'-0"

- PLAN NOTES:**
1. MEMBER DESIGNATIONS AS FOLLOWS:
A. AL CS10 = ALUMINUM CS10x8.36
B. AL L5 = ALUMINUM L5x5x1/2"
 2. * COORDINATE DIMENSIONS WITH MECHANICAL DRAWINGS.
 3. PRE-FABRICATED 316L STAINLESS STEEL INFLUENT DISTRIBUTION CHANNELS SHALL BE FURNISHED AND INSTALLED BY CONTRACT 4A.
 4. C.J. = CONSTRUCTION JOINT (TYP. EACH TANK).

RECORD DRAWING
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0659x201
07/3/01 OBG RAE
0659x202

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1	4/20/01	ISSUED FOR APPROVAL AS BID	TWS
2	10/31/05	RECORD DRAWING	RCG

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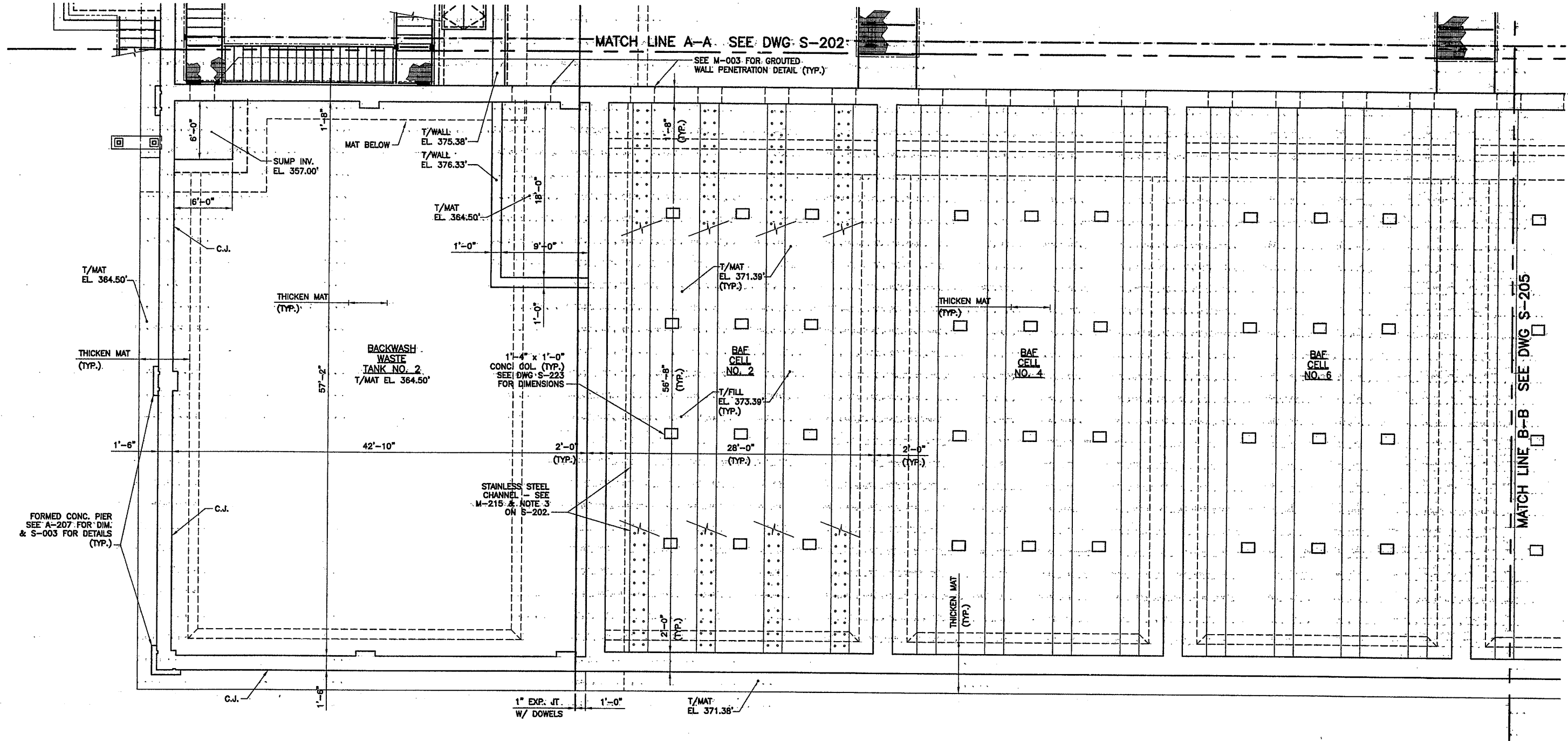
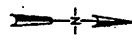
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File Number: 00659
Date: APRIL 2001
S-202

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BAF PARTIAL FOUNDATION PLAN
STRUCTURAL



PARTIAL FOUNDATION PLAN
SCALE: 3/16"=1'-0"

RECORD DRAWING

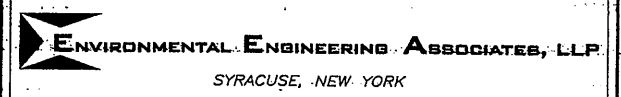
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/12/05 PER: RCG

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0659x201
07/3/01 OBG RAE
0659x203

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by CMT
Drawn by RAE
Checked by TWS



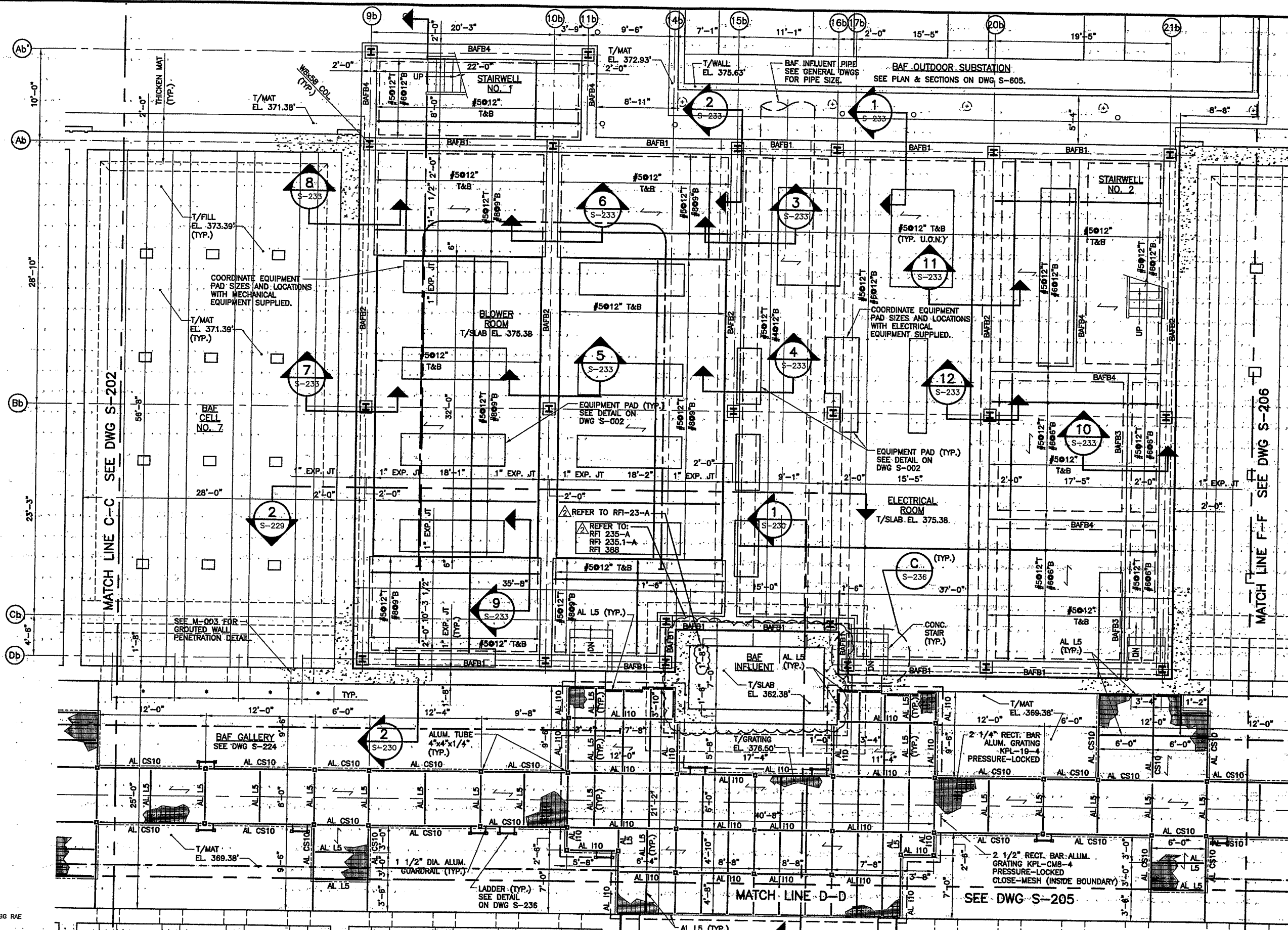
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number: 00659
Date: APRIL 2001
S-203

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

BAF PARTIAL FOUNDATION PLAN
STRUCTURAL



RECORD DRAWING
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 DATE: 12/17/05 PER: RAE

PARTIAL FOUNDATION PLAN
 SCALE: 3/16"=1'-0"

- PLAN NOTES:**
- MEMBER DESIGNATIONS AS FOLLOWS:
 A. AL CS10 = ALUMINUM CS10x6.36
 B. AL L5 = ALUMINUM L5x5x1/2"
 C. AL I10 = ALUMINUM I10x10.3
 - * COORDINATE DIMENSIONS WITH MECHANICAL DRAWINGS.
 - BAFB# DESIGNATES BAF BEAMS. SEE SCHEDULE & DETAILS ON S-232.
 - 12" THICK STRUCTURAL SLABS IN BLOWER ROOM, ELECTRICAL ROOM AND STAIRWELL NO. 1 & 2.
 - CONSTRUCTION JOINTS TO BE PLACED EVERY 20'-0" EACH DIRECTION.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

0659x201
 07/3/01 DBG RAE
 0659x204

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

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	

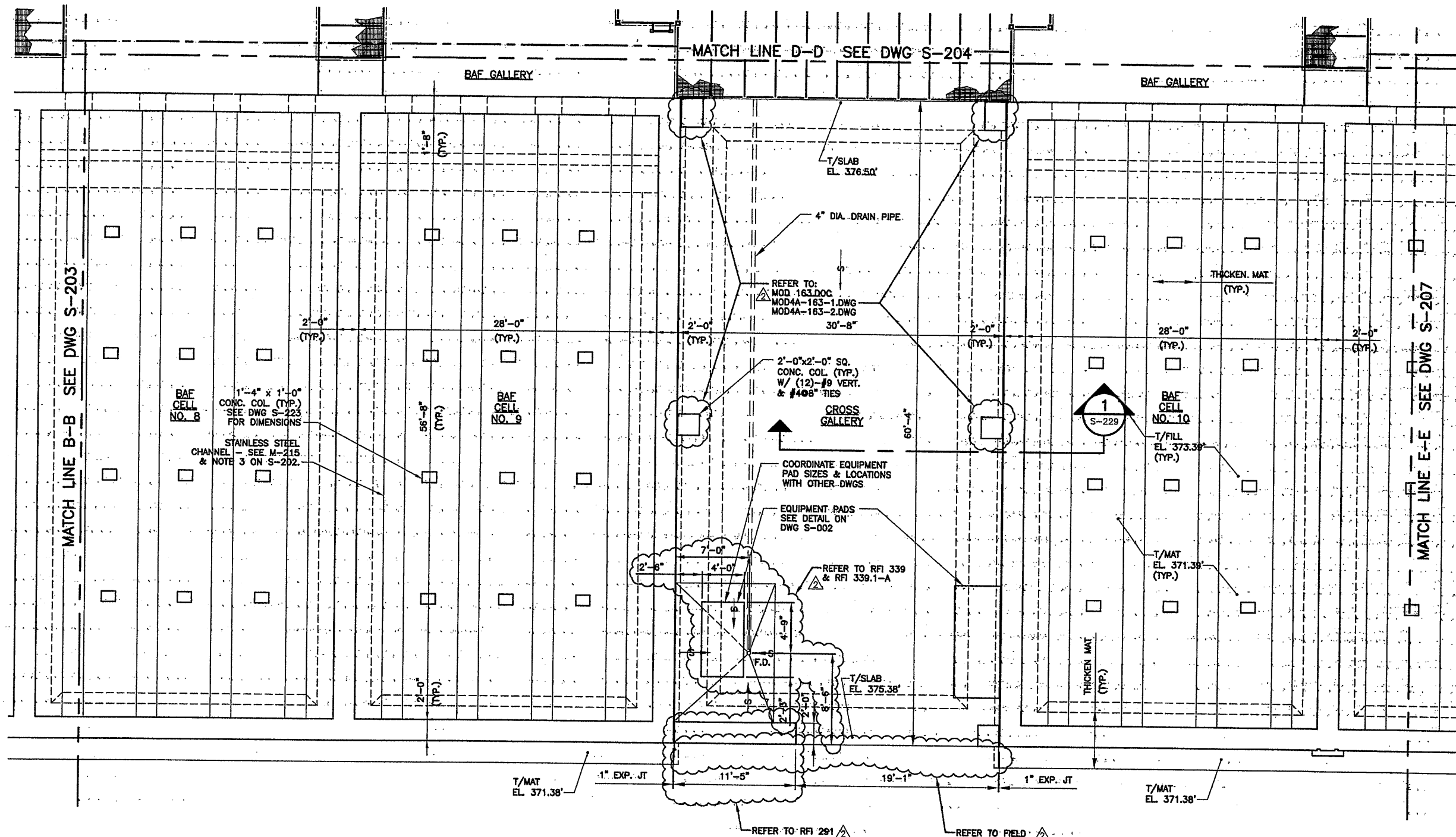
In charge of: TWS
 Designed by: CMT
 Drawn by: RAE
 Checked by: TWS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

File Number: 00659
 Date: APRIL 2001
S-204

BAF PARTIAL FOUNDATION PLAN
 STRUCTURAL



PARTIAL FOUNDATION PLAN
SCALE: 3/16"=1'-0"

RECORD DRAWING
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DATE: 12/12/06 PER: RCG

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0659x201
07/3/01 OBG RAE
0659x205

3/16"=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
0	4/20/01	ISSUED FOR APPROVAL AS BID	
1	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by CMT
Drawn by RAE
Checked by TWS

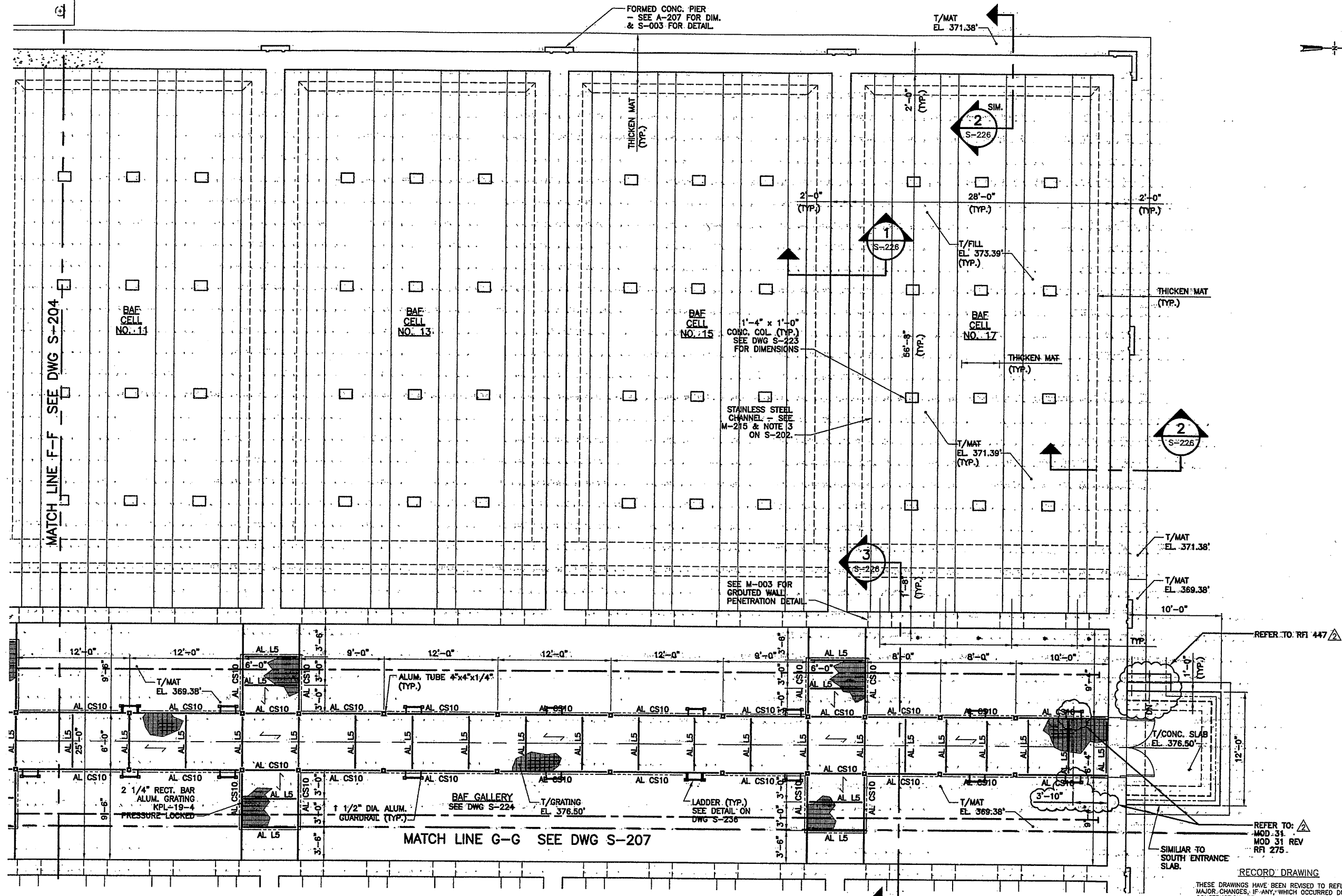


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number: 00659
Date: APRIL 2001
S-205

BAF PARTIAL FOUNDATION PLAN
STRUCTURAL



PARTIAL FOUNDATION PLAN

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

- PLAN NOTES:**
- MEMBER DESIGNATIONS AS FOLLOWS:
 A. AL CS10 = ALUMINUM CS10x8.36
 B. AL L5 = ALUMINUM L5x5x1/2"
 - * COORDINATE DIMENSIONS WITH MECHANICAL DRAWINGS.

RECORD DRAWING
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 DATE: 12/12/05 PER: eccg

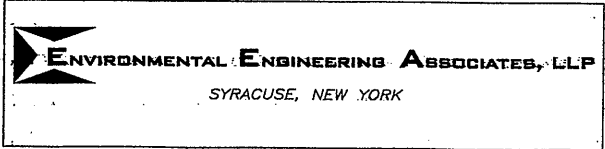
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0659x201
 07/3/01 OBG RAE
 0659x206

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

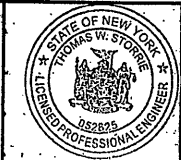
No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL - AS BID	
1	10/31/05	RECORD DRAWING	RCG

In charge of TWS
 Designed by CMT
 Drawn by RAE
 Checked by TWS

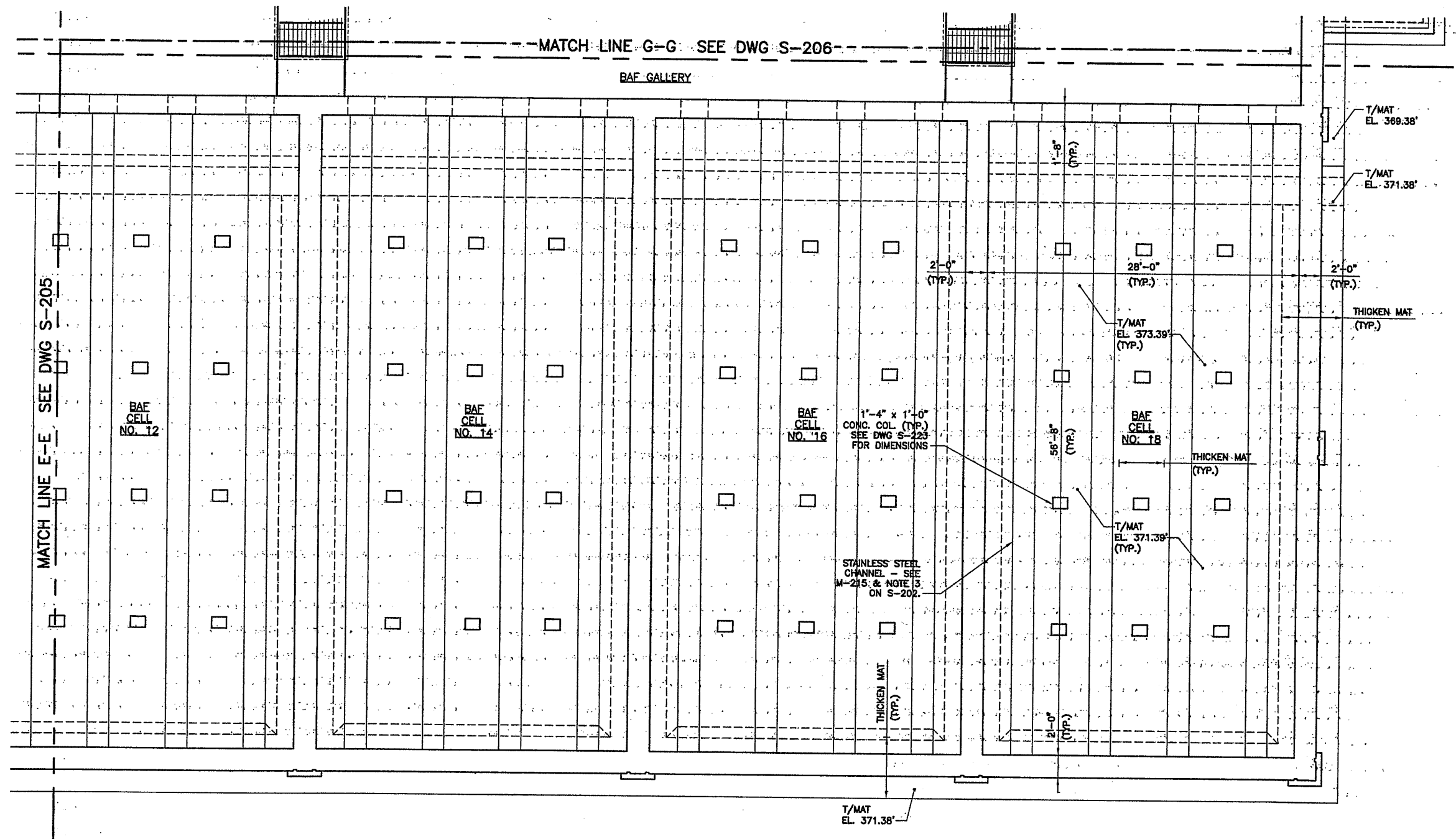
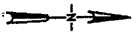


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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL FOUNDATION PLAN
 STRUCTURAL



File Number 00659
 Date APRIL 2001
S-206



PARTIAL FOUNDATION PLAN

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

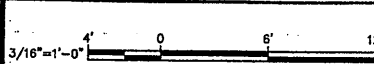
RECORD DRAWING

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DATE: 12/2/05 PER: RCG

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0659x201
07/3/01 OBG RAE
0659x207



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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by CMT
Drawn by RAE
Checked by TWS

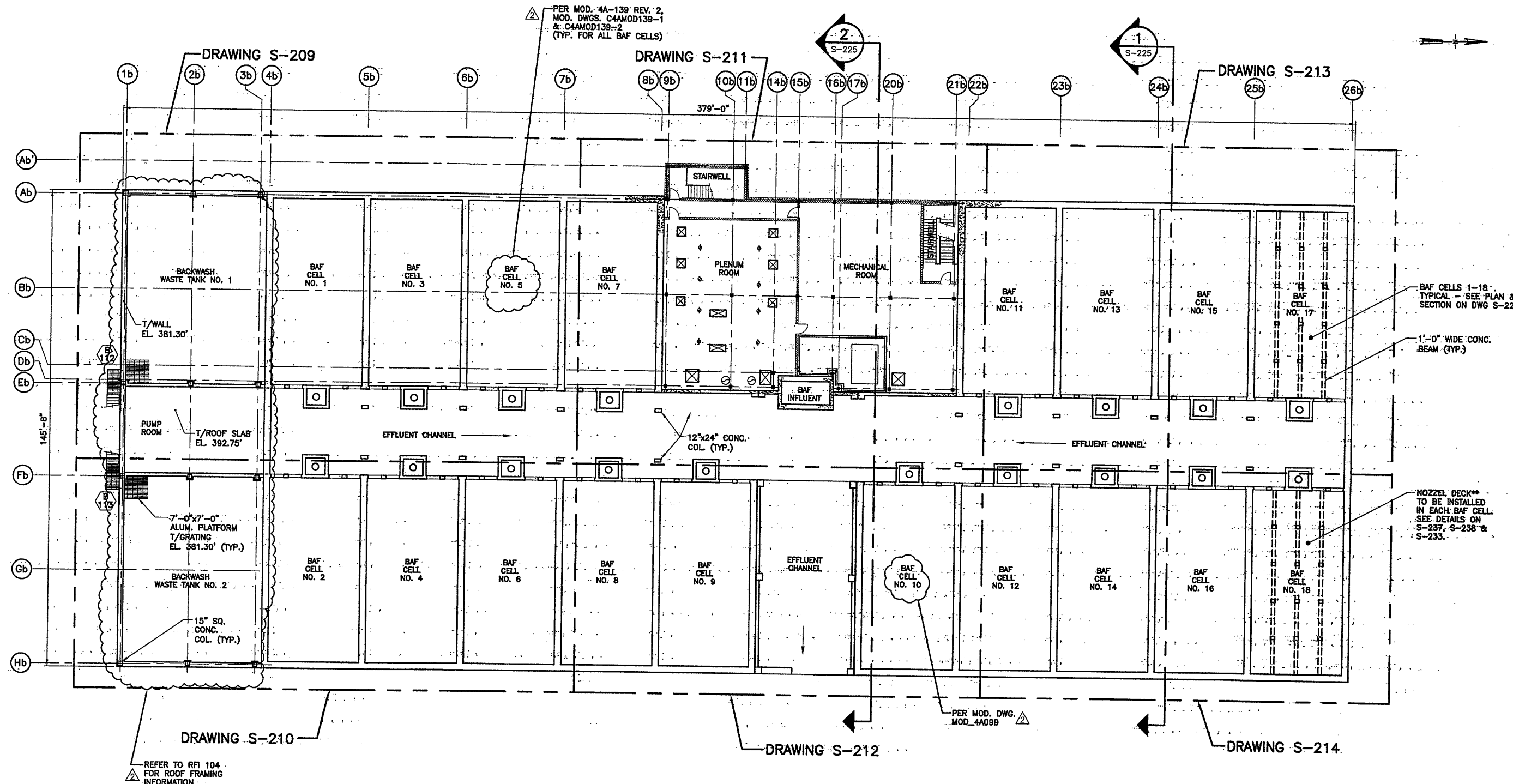


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL FOUNDATION PLAN
STRUCTURAL



File Number: 00659
Date: APRIL 2001
S-207



PLAN AT EL. 392.75

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

RECORD DRAWING NOTE:
REFER TO MOD. 193 AND MOD. DWG. MOD4A-193-1 FOR SLIDE GATE DETAILS

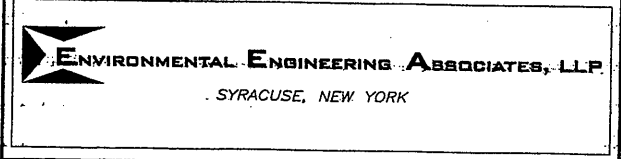
RECORD DRAWING
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DATE: 12/2/05 PER: RAE

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0559X202
07/3/01 OBG RAE
0559S208

No.	Date	Revisions	Init
1	4/20/01	ISSUED FOR APPROVAL AS BID	
2	10/31/05	RECORD DRAWING	RCG

In-charge of: TWS
Designed by: CMT
Drawn by: RAE
Checked by: TWS

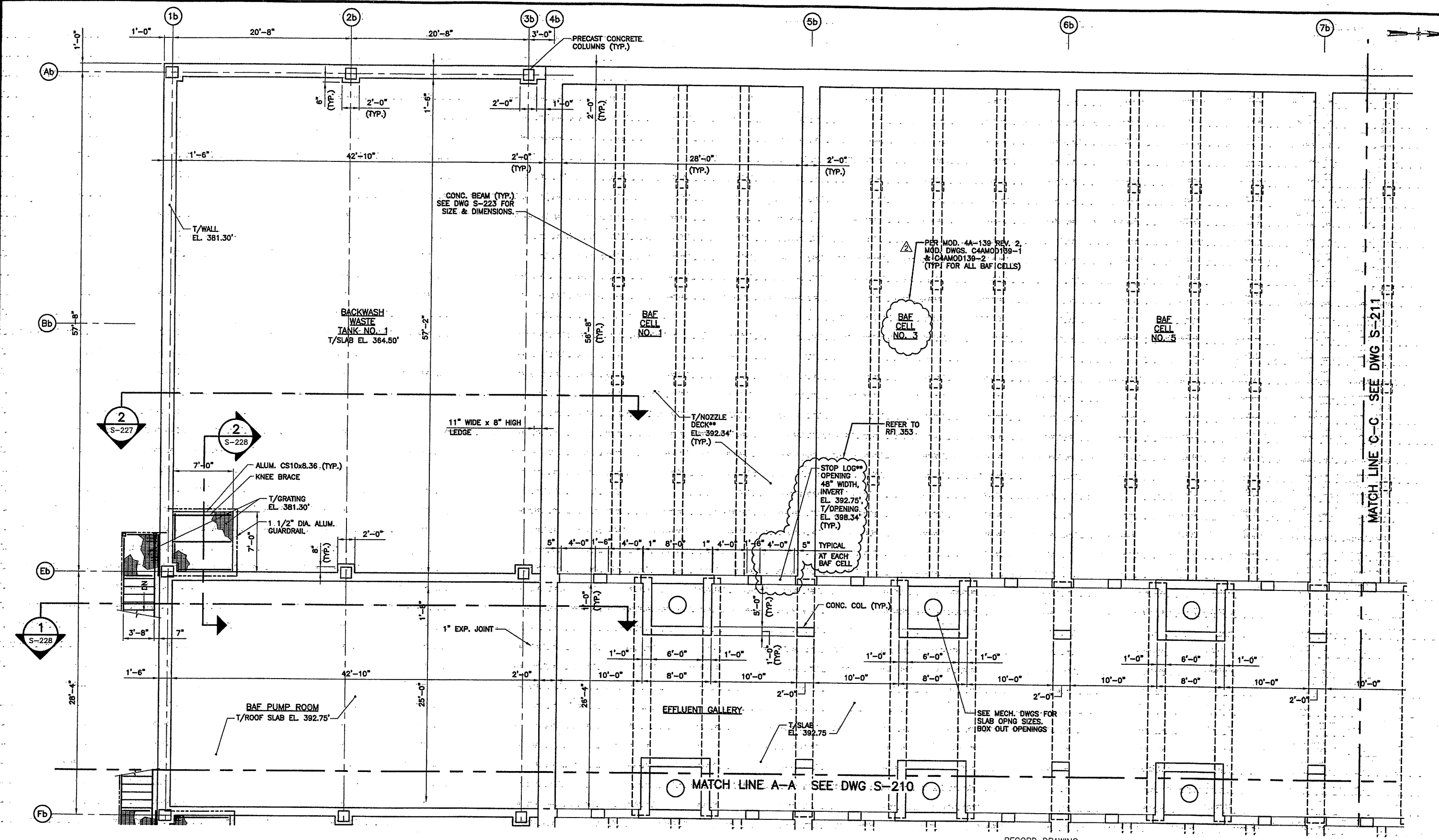


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

GENERAL OVERALL
BAF PLAN AT EL. 392.75
STRUCTURAL

File Number: 00659
Date: APRIL 2001
S-208

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



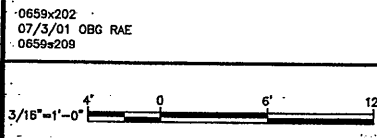
PARTIAL PLAN AT EL. 392.75

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

RECORD DRAWING

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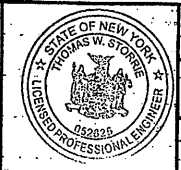
No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL AS BID	
1	10/31/05	RECORD DRAWING	RCG

In-charge of	TWS
Designed by	CMT
Drawn by	RAE
Checked by	TWS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL PLAN AT EL. 392.75
STRUCTURAL

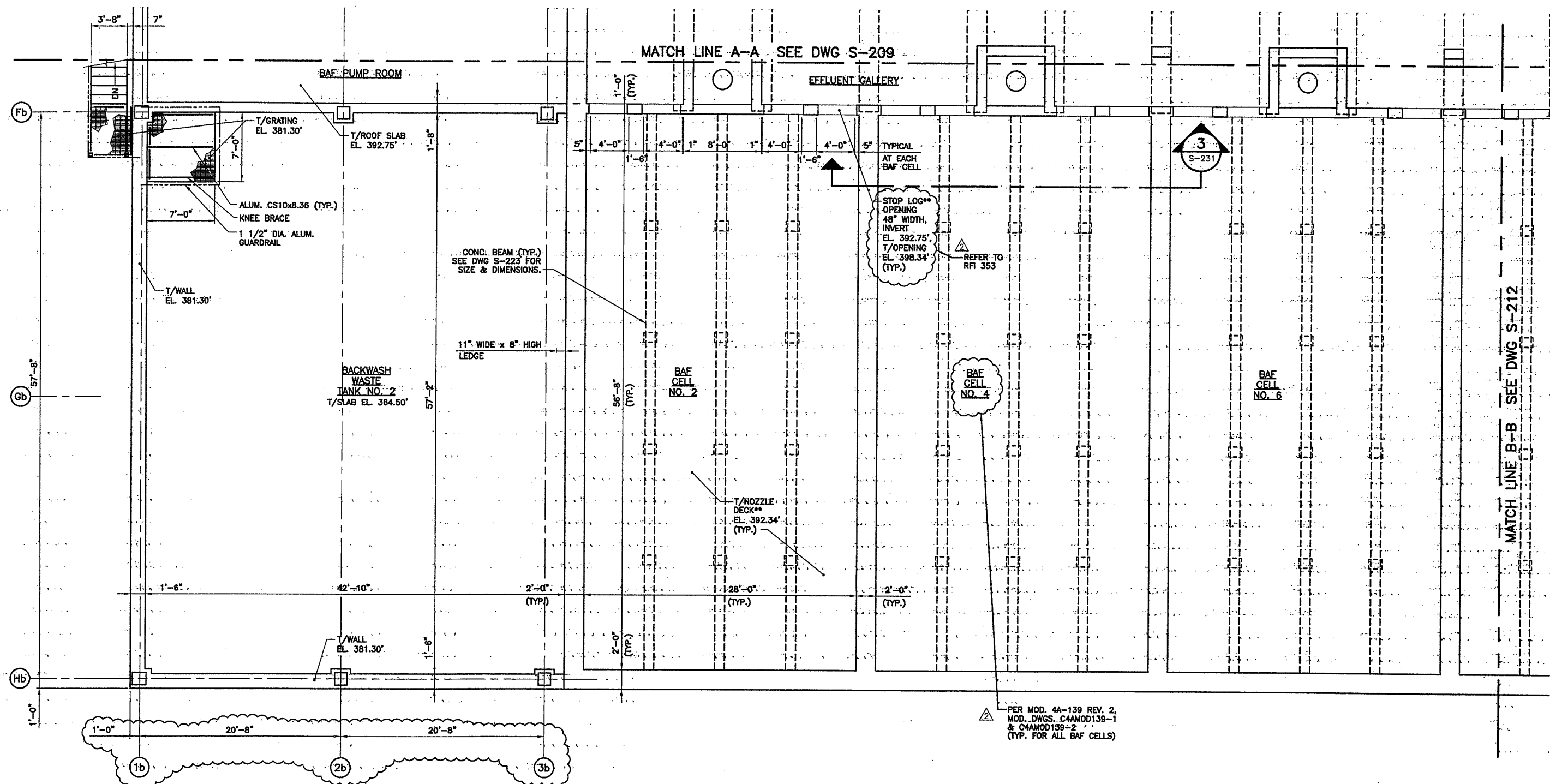
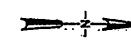


File Number	00659
Date	APRIL 2001
Project Number	S-209

MATCH LINE C-C SEE DWG S-211

0659x202
07/3/01 OBG RAE
0659x209

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PARTIAL PLAN AT EL. 392.75
SCALE: 3/16"=1'-0"

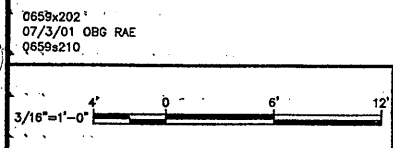
PER MOD. 4A-139 REV. 2,
MOD. DWGS. C4AMOD139-1
& C4AMOD159-2
(TYP. FOR ALL BAF CELLS)

MATCH LINE B-B SEE DWG S-212

RECORD - DRAWING

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DATE: 12/17/05 PER: RCG

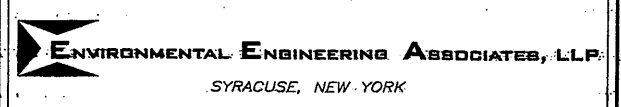
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1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
 Designed by CMT
 Drawn by RAE
 Checked by TWS

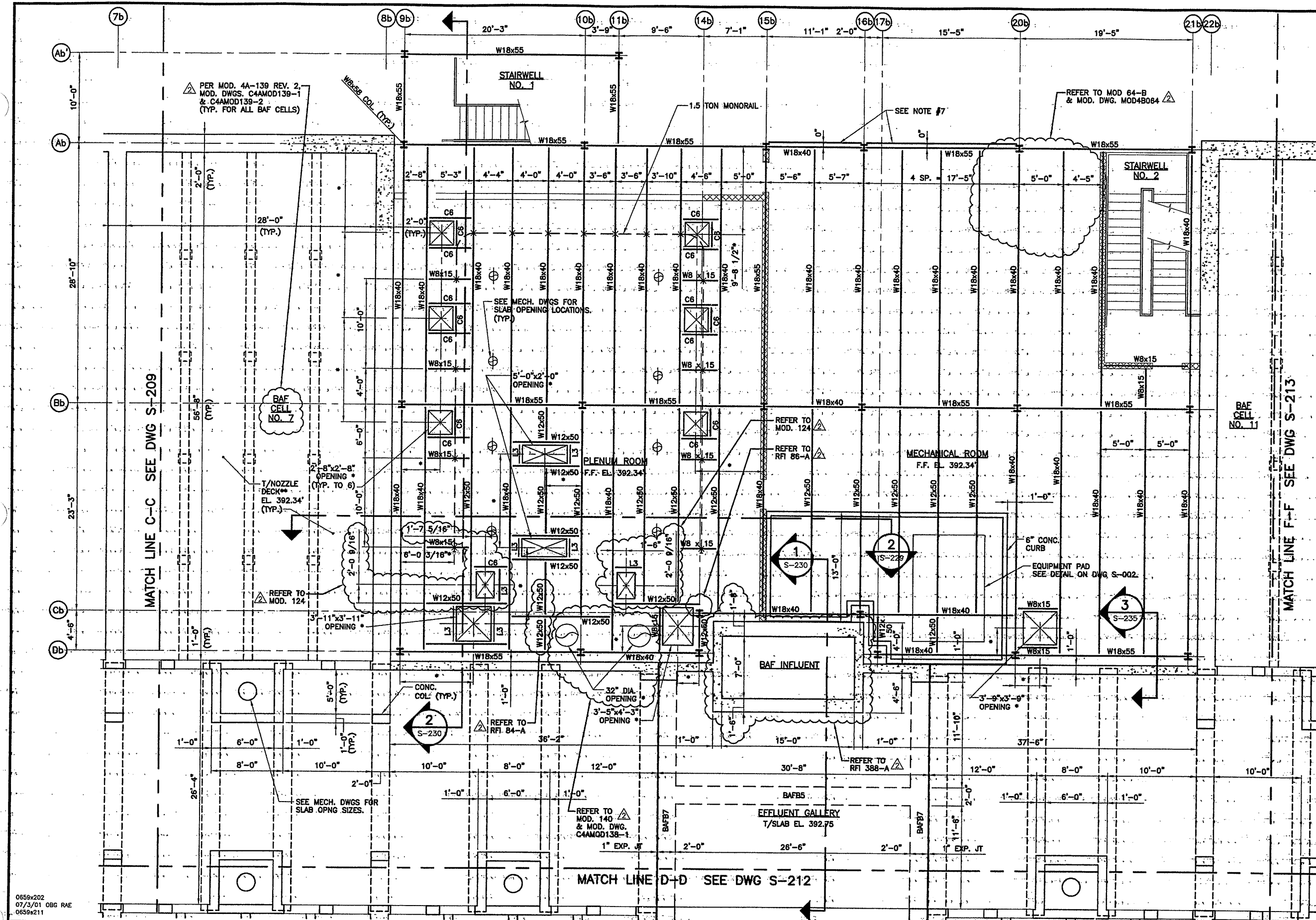


ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number: 00659
 Date: APRIL 2001
 S-210

BAF PARTIAL PLAN AT EL. 392.75
STRUCTURAL



RECORD DRAWING
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 DATE: 12/1/05 PER: RCG
PARTIAL PLAN AT EL. 392.75
 SCALE: 3/16" = 1'-0"

- PLAN NOTES:**
1. T.O.S. EL. = 391.83'
 2. FLOOR DESIGN LL = 150 PSF.
 3. MEMBER DESIGNATIONS AS FOLLOWS:
 A. C6 = C6x8.2
 B. L3 = L3x3x1/2"
 4. BAFB DESIGNATES BAF BEAMS. SEE SCHEDULE & DETAILS ON DWG. S-232.
 5. * COORDINATE DIMENSIONS WITH MECH., HVAC & ELEC. DWGS.
 6. SEE CMU MASONRY REINFORCING SCHEDULE ON DWG S-004.
 7. SEE DWG S-004 FOR STEEL LINTEL SCHEDULE AT DOORS, WINDOWS AND LOUVERS. SEE ARCH. DWGS. FOR LOCATION.
 8. W16x36 + 1/2" BOTTOM PLATE, T/STEEL EL. 8'-8 3/8". CONNECT TO COLUMNS.
 9. STEEL FRAMING DESIGNED FOR 1.5-TON MONORAIL AT LOCATIONS MARKED WITH X. LOCATE CENTERLINE OF MONORAIL HOOK OVER CENTERLINE OF BLOWER MOTORS. COORDINATE WITH EQUIPMENT SUPPLIER.
 10. FLOOR CONSTRUCTION: 2-1/2" CONCRETE OVER 1 1/2" 20 GA. COMPOSITE GALVANIZED DECK.
 11. ALL PENETRATIONS SHALL BE SLEEVED AND SEALED WITH A UL-RATED FIRESTOP MATERIAL.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THIS SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

0659x202
 07/3/01 OBG RAE
 0659x211

3/16" = 1'-0"

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL AS BID	
1	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
 Designed by: CMT
 Drawn by: RAE
 Checked by: TWS

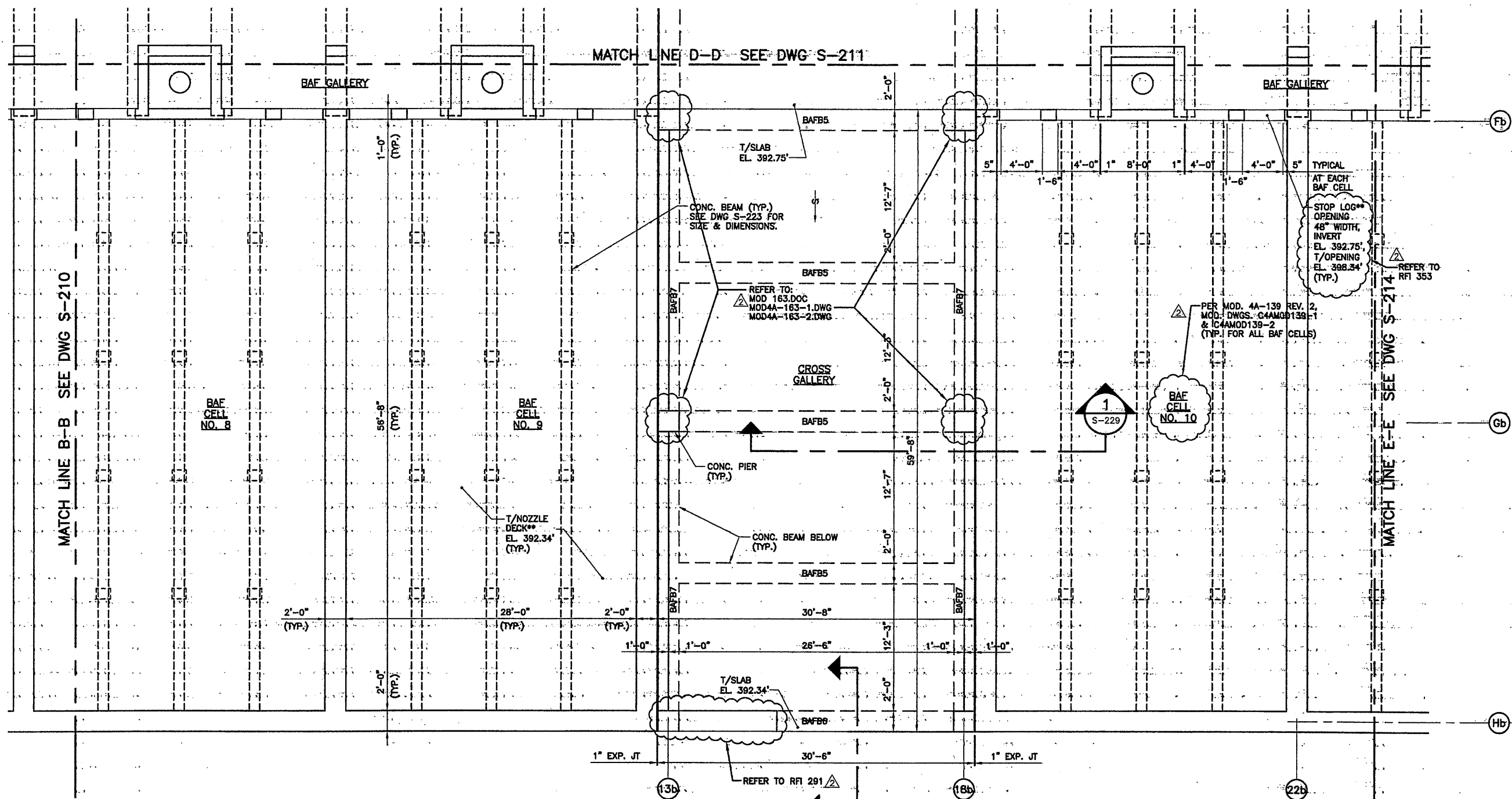
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL PLAN AT EL. 392.75
 STRUCTURAL

STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 LICENSE NO. 052276

File Number: 00659
 Date: APRIL 2001
 S-211



PARTIAL PLAN AT EL. 392.75
SCALE: 3/16"=1'-0"

PLAN NOTES:
1. BAF# DESIGNATES BAF BEAMS. SEE SCHEDULE & DETAILS ON DWG S-232.

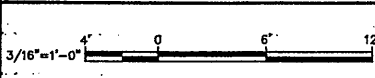
RECORD DRAWING

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DATE: 12/12/05 PER: *ecg*

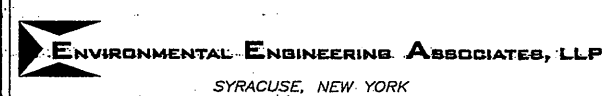
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D659-202
07/3/01 OBG RAE
0659-212

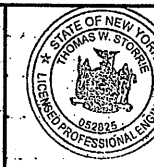


No.	Date	Revisions	Init.
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2	10/31/05	RECORD DRAWING	

In. charge of TWS
Designed by CMT
Drawn by RAE
Checked by TWS

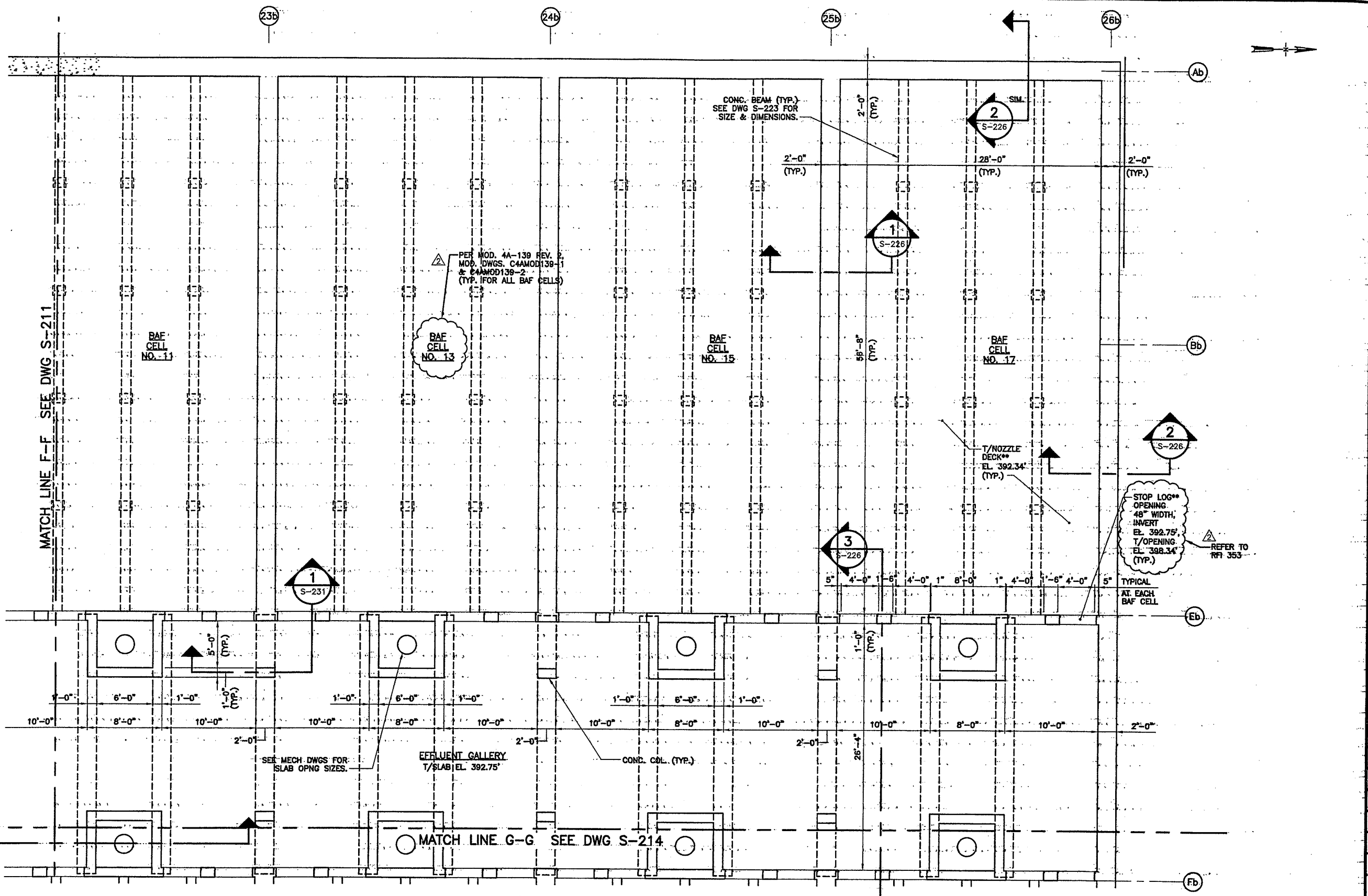


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number: 00659
Date: APRIL 2001
S-212

BAF PARTIAL PLAN AT EL. 392.75
STRUCTURAL



PARTIAL PLAN AT EL. 392.75
SCALE: 3/16"=1'-0"

RECORD DRAWING
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 DATE: 12/7/05 PER: RCG
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0659x202
07/5/01 OBG RAE
0659x213

3/16"=1'-0"
0 6" 12"

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

No.	Date	Revisions	Init
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1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
 Designed by CMT
 Drawn by RAE
 Checked by TWS

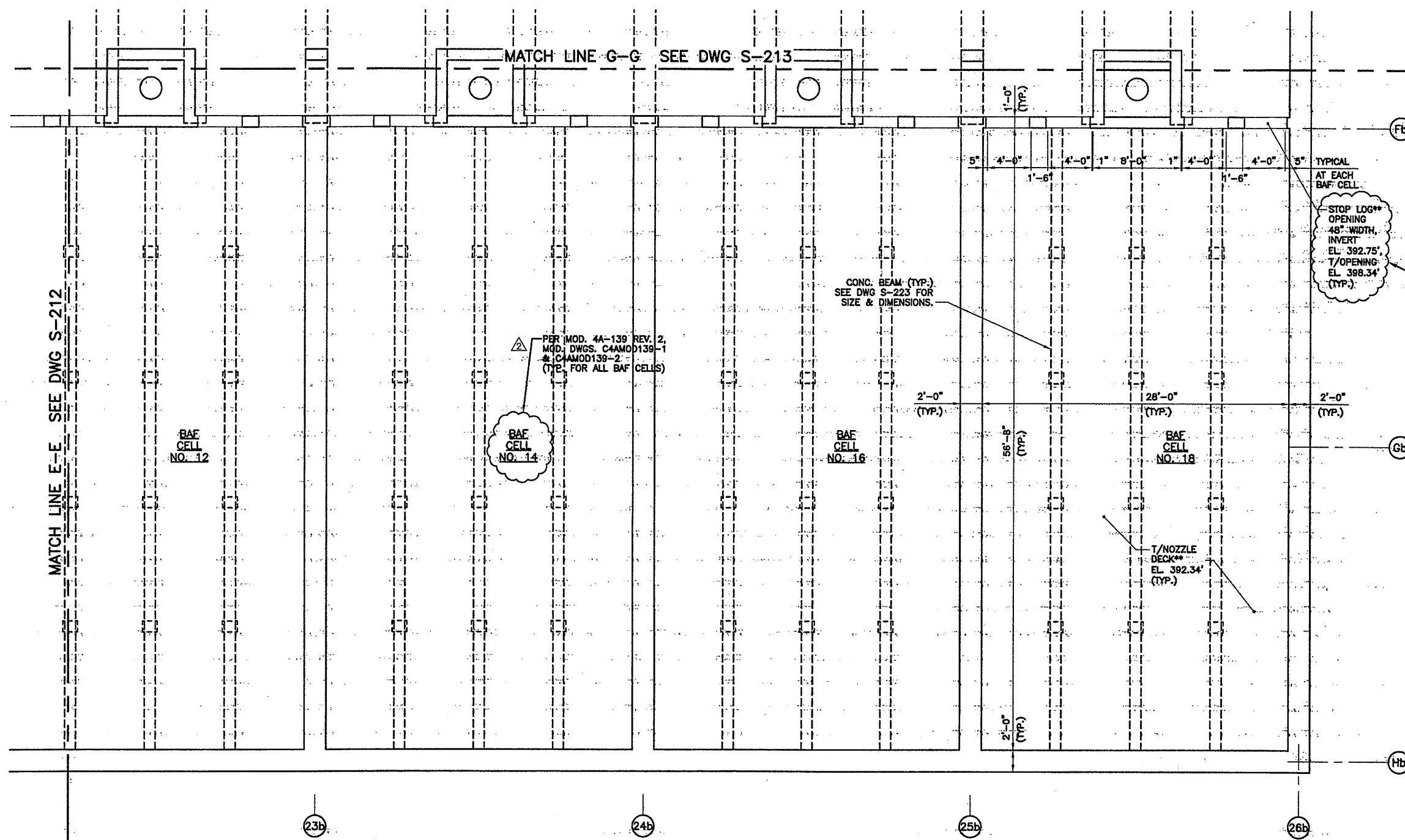
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL PLAN AT EL. 392.75
 STRUCTURAL

STATE OF NEW YORK
 PROFESSIONAL ENGINEER
 052825

File Number: 00659
 Date: APRIL 2001
 S-213



PARTIAL PLAN AT EL. 392.75

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

RECORD DRAWING

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DATE: 12/1/05 PER: RAE

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0659x202
07/13/01 OBG RAE
0659x214

3/16"=1'-0"	No.	Date	Revisions	Init
	0	4/20/01	ISSUED FOR APPROVAL AS BID	
	1	10/31/05	RECORD DRAWING	RCG

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In charge of TWS
Designed by CMT
Drawn by RAE
Checked by TWS



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

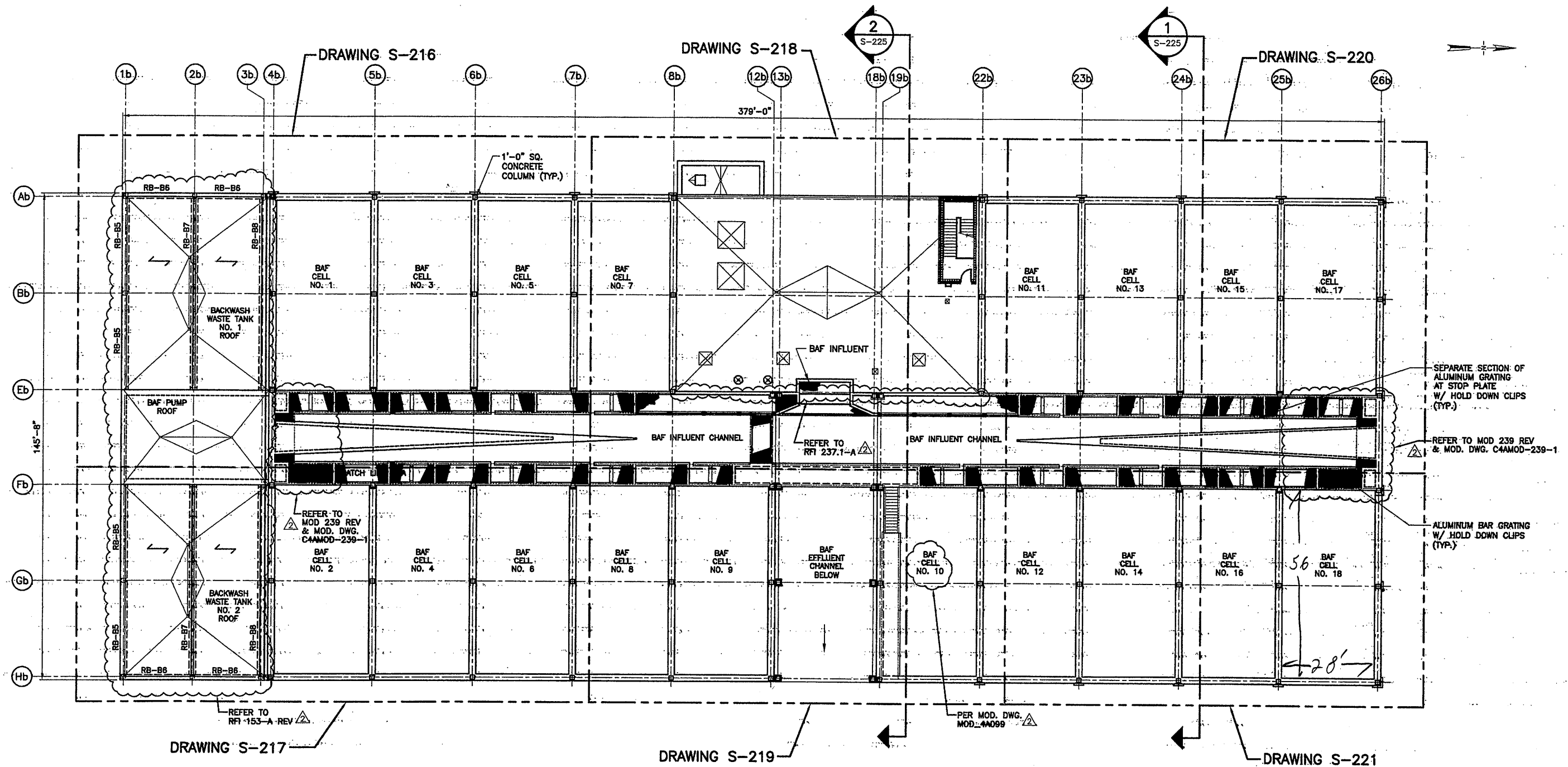
BAF PARTIAL PLAN AT EL. 392.75
STRUCTURAL



File Number
00659

Date
APRIL 2001

S-214



PLAN AT EL. 407.84

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

PLAN NOTES:

- SPAN OF PRESTRESSED CONCRETE PLANK.
- RB-B1 = ROOF BEAM; SEE ROOF BEAM SCHEDULE AND DETAILS ON SHEET S-234.

1/2" = 16'
 1/4" = 8'
 1/8" = 6'
 1/16" = 3'

0659-203
 07/3/01 ORG RAE
 0659-215

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

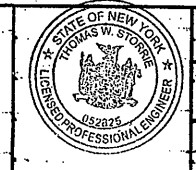
No.	Date	Revisions	Init
1	4/20/01	ISSUED FOR APPROVAL AS BID	RCG

In charge of TWS
 Designed by CMT
 Drawn by RAE
 Checked by TWS

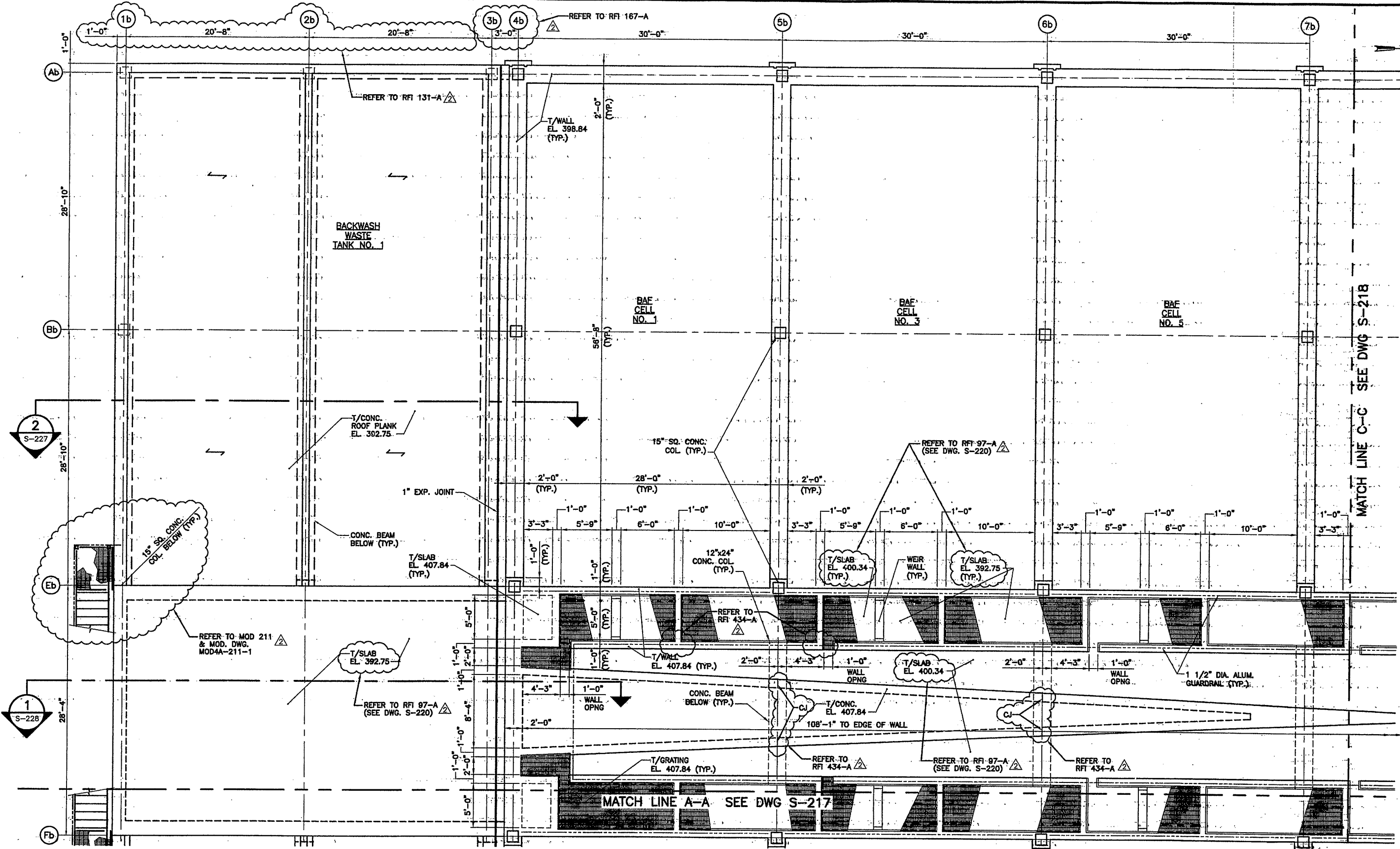


ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**GENERAL OVERALL
 BAF PLAN AT EL. 407.84**
 STRUCTURAL



RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 12/12/05 PER: RCG
 THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.
 File Number: 00659
 Date: APRIL 2001
S-215



PARTIAL PLAN AT EL. 407.84

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

- PLAN NOTES:**
- SPAN OF 10' PRESTRESSED CONCRETE PLANK.
 - E LOCATE EXPANSION BEARING HERE.

RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 12/12/05 PER: acg
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0659x203
 07/3/01 OBG RAE
 0659x216

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

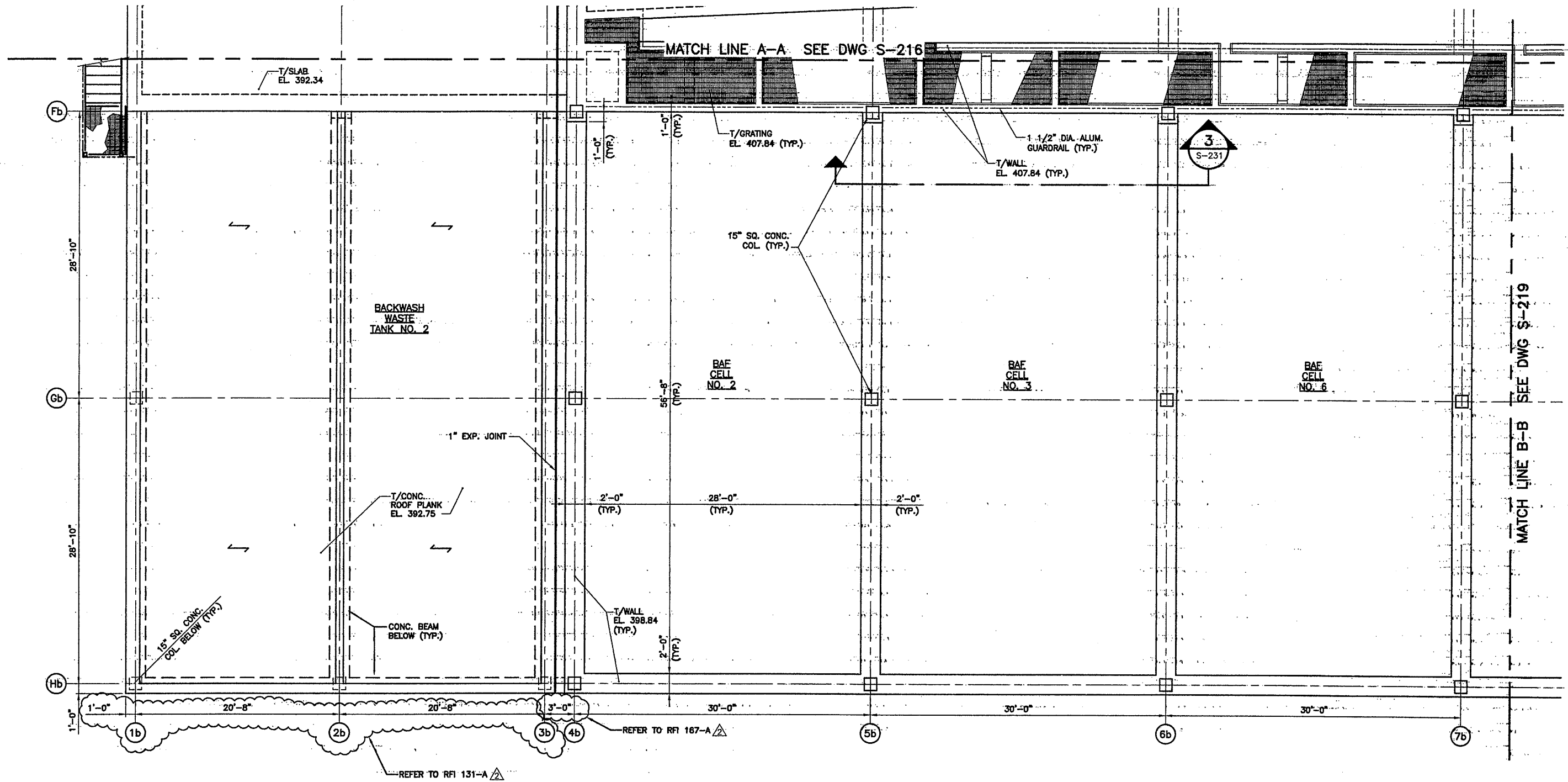
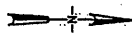
In charge of: TWS
 Designed by: CMT
 Drawn by: RAE
 Checked by: TWS

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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL PLAN AT EL. 407.84
 STRUCTURAL

Professional Engineer Seal: THOMAS W. STUBBS, No. 052276, State of New York

File Number: 00659
 Date: APRIL 2001
 S-216



PARTIAL PLAN AT EL. 407.84

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

- PLAN NOTES:**
 1. SPAN OF 10" PRESTRESSED CONCRETE PLANK.
 2. LOCATE EXPANSION BEARING HERE.

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 12/12/05 PER: PCG

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0659x203
 03/30/01 OBG RAE
 0659x217

3/16"=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
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
 Designed by: CMT
 Drawn by: RAE
 Checked by: TWS

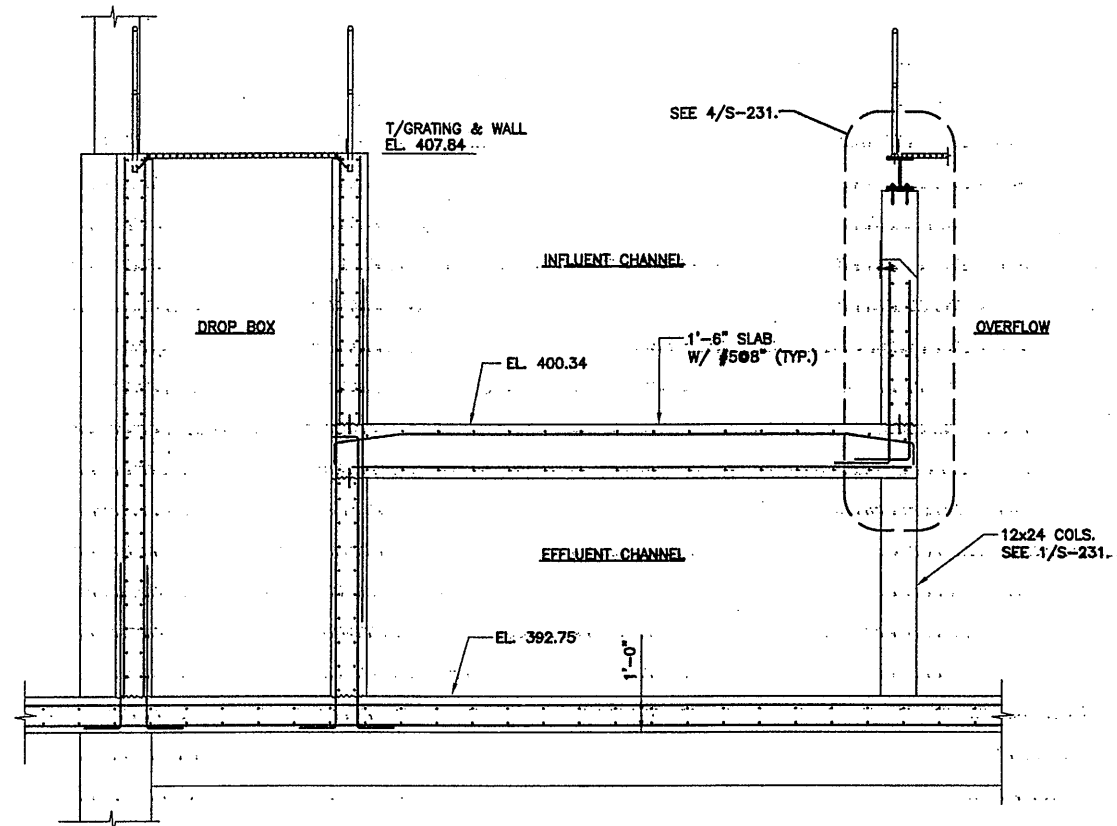


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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

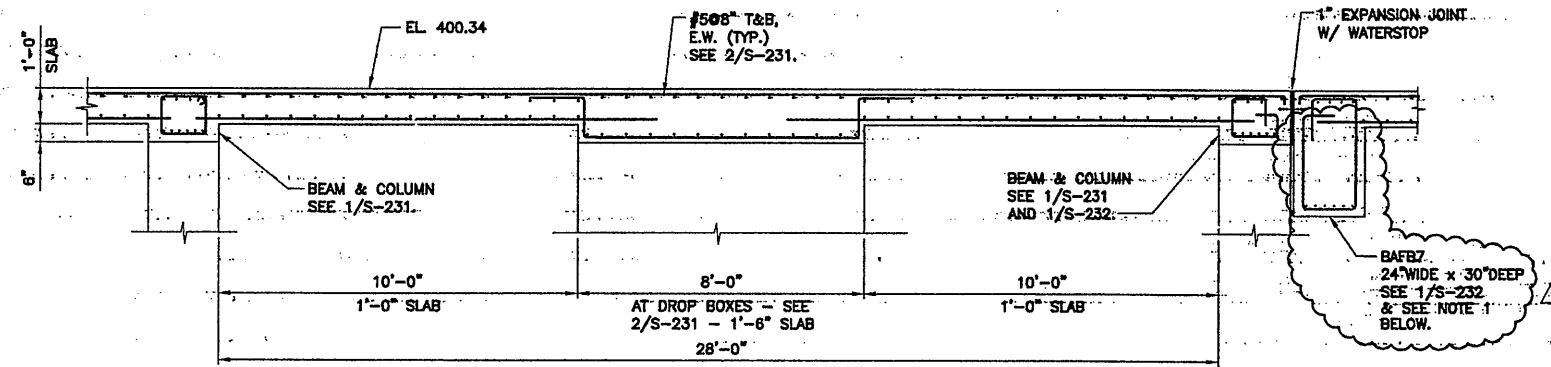
BAF PARTIAL PLAN AT EL. 407.84
 STRUCTURAL



File Number: 00659
 Date: APRIL 2001
 S-217



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



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

SECTION NOTES:
1. PROVIDE 8" BEAM BEARING POCKET AT Eb13b, Eb18b, Fb13b & Fb18b. FORM SAVERS MAYBE USED FOR TOP BAR DOWELS AT INTERFACE OF BEAM POCKET.

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

DATE: 12/2/05 PER: RCG

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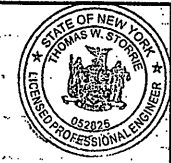
5/20/03 OBG RAE
.0659a218A

No.	Date	Revisions	Init
0	5/21/03	ISSUED FOR MODIFICATION 4A-164	
1	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
Designed by: TWS
Drawn by: RAE
Checked by: CTV

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

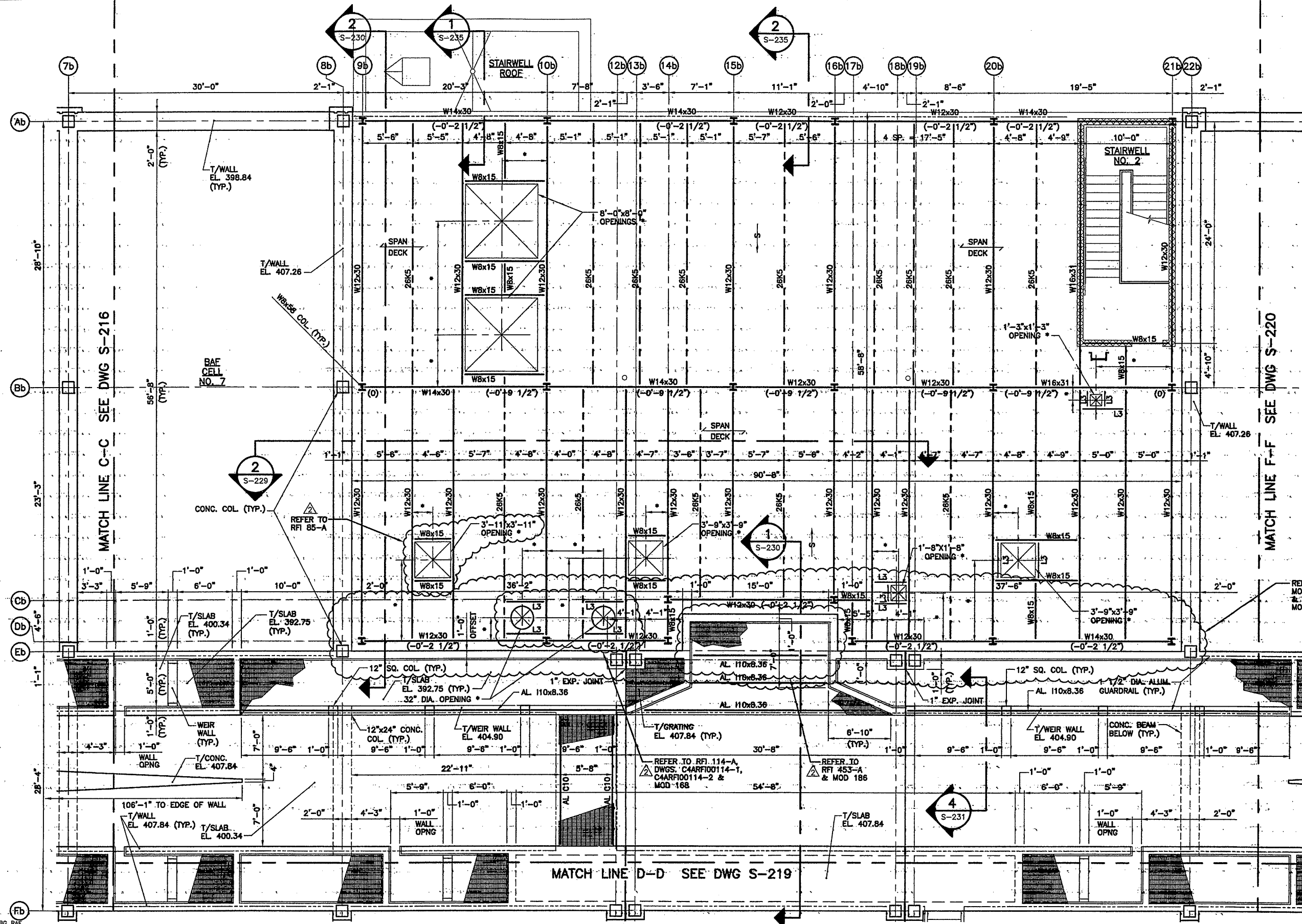
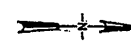


File Number: 00659
Date: MAY 2003

S-218A

SECTIONS
STRUCTURAL

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REFER TO MOD. 222 & MOD. DWG. MOD40-017

RECORD DRAWING
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DATE: 12/1/05 PER: RCG

PARTIAL PLAN AT EL. 407.84

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

- PLAN NOTES:**
1. T/STEEL EL. 406.46' U.O.N.
 2. L3 DESIGNATES L3x3x1/2"
 3. COORDINATE DIMENSIONS WITH MECH., HVAC AND ELEC. DWGS.
 4. ROOF CONSTRUCTION IS BUILT-UP ROOF SYSTEM. SEE ARCH. DWGS FOR DETAILS.
 5. SEE CMU MASONRY REINFORCING SCHEDULE ON DWG S-004.
 6. SEE DWG S-004 FOR STEEL LINTEL SCHEDULE AT DOORS, WINDOWS & LOUVERS. SEE ARCH. DWGS FOR LOCATION.
 7. SEE ARCH. DWGS FOR LOCATIONS OF JOIST TOP CHORD EXTENSIONS.
 8. 1-1/2" TYPE B, 20 GA. GALVANIZED ROOF DECK
 9. 26K5 BAR JOISTS REQUIRE (2) ROWS OF HORIZONTAL BRIDGING.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

0659x203
07/3/01 OBG RAE
0659x218

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL AS BID	
1	10/31/05	RECORD DRAWING	RCG

In-charge of	TWS
Designed by	CMT
Drawn by	RAE
Checked by	TWS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

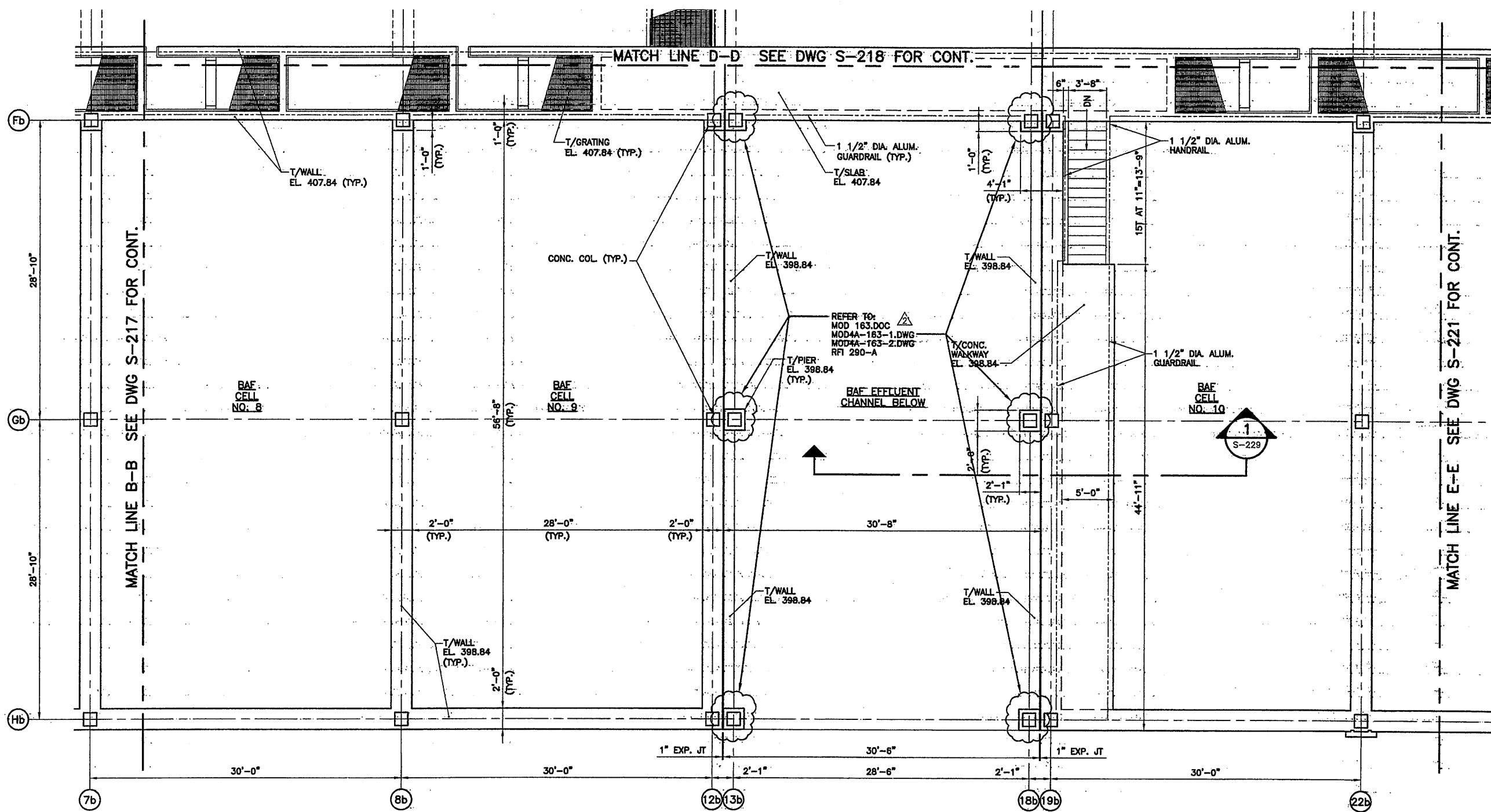
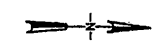
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL PLAN AT EL. 407.84
STRUCTURAL

File Number
00659

Date
APRIL 2001

S-218



PARTIAL PLAN AT EL. 407.84
SCALE: 3/16"=1'-0"

RECORD DRAWING

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0659-203 -
07/3/01 OBG RAE
0659-219

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-0	4/20/01	ISSUED FOR APPROVAL	
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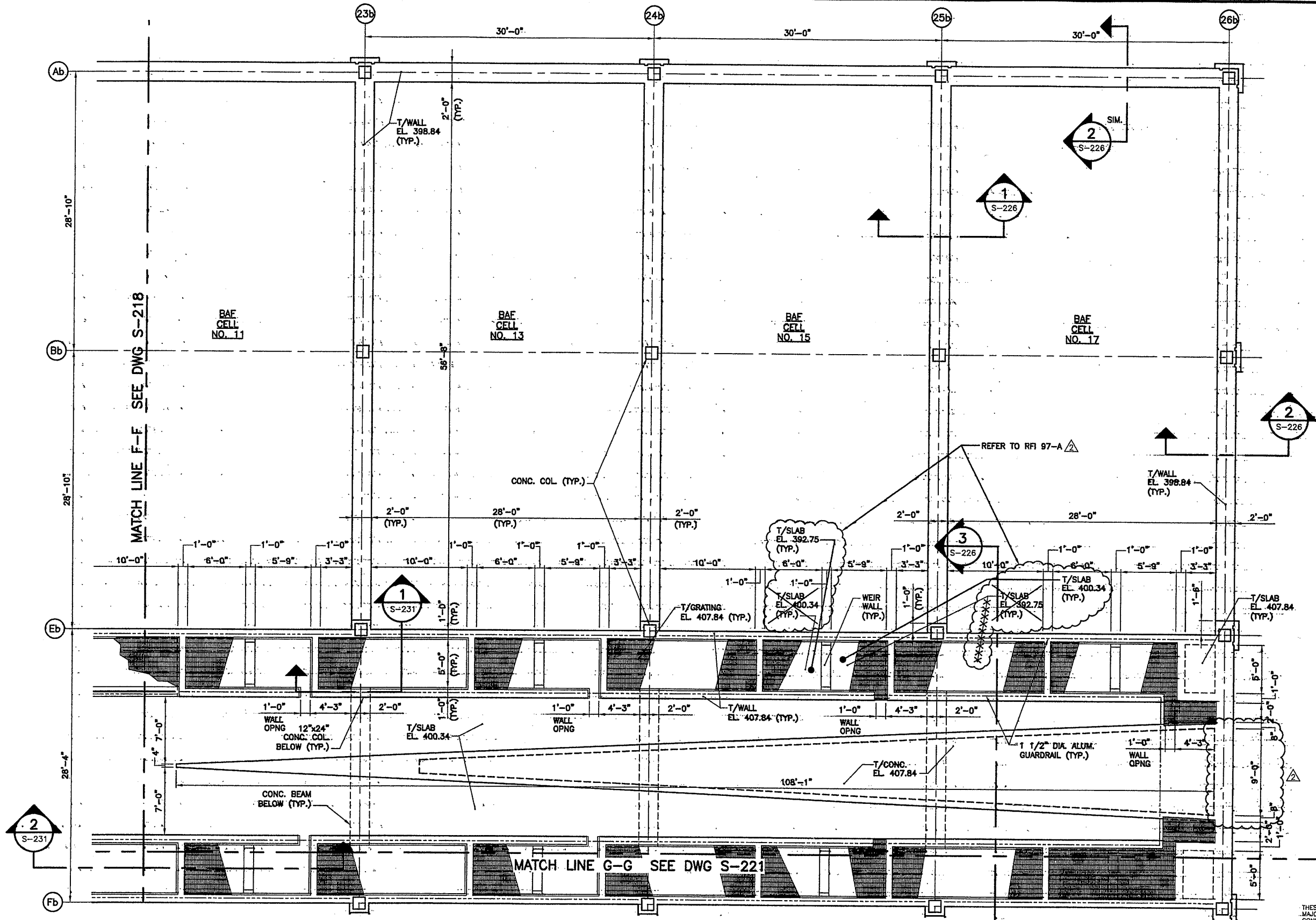
In charge of TWS
Designed by CMT
Drawn by RAE
Checked by TWS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL PLAN AT EL. 407.84
STRUCTURAL

File Number: 00659
Date: APRIL 2001
S-219



PARTIAL PLAN AT EL. 407.84
SCALE: 3/16"=1'-0"

RECORD DRAWING
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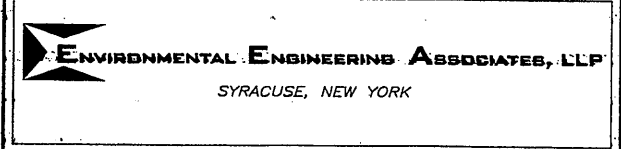
0659x203
 07/3/01 OBG RAE
 0659x220

3/16"=1'-0"

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
 Designed by CMT
 Drawn by RAE
 Checked by TWS

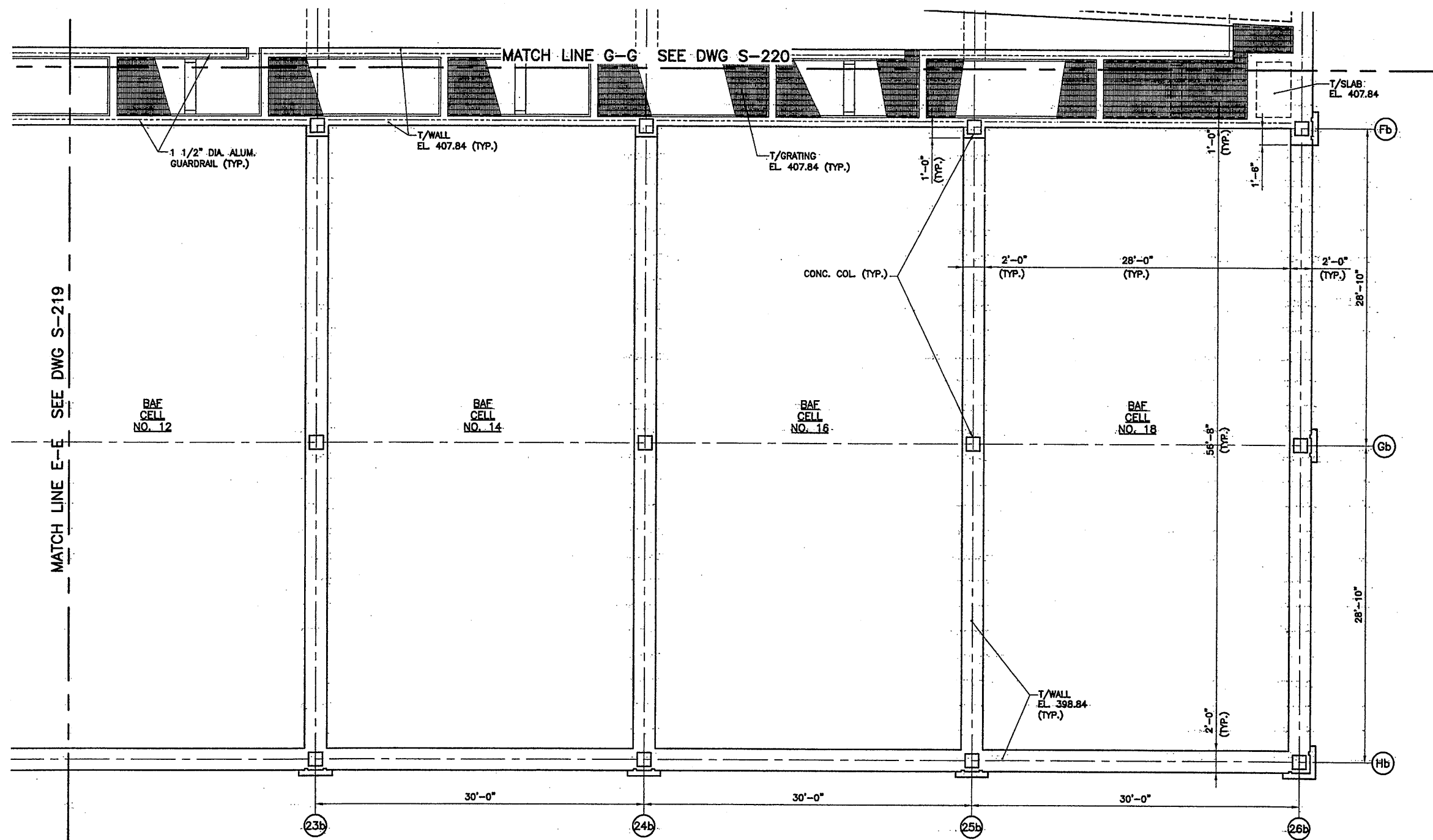


ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL PLAN AT EL. 407.84
 STRUCTURAL

Professional Engineer Seal for the State of New York, License No. 052825, RCG.

File Number: 00659
 Date: APRIL 2001
 S-220



PARTIAL PLAN AT EL. 407.84

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

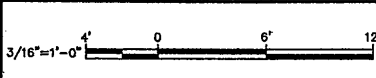
RECORD DRAWING

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0659x203
07/3/01 OBG RAE
0659x221



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
Designed by: CMT
Drawn by: RAE
Checked by: TWS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

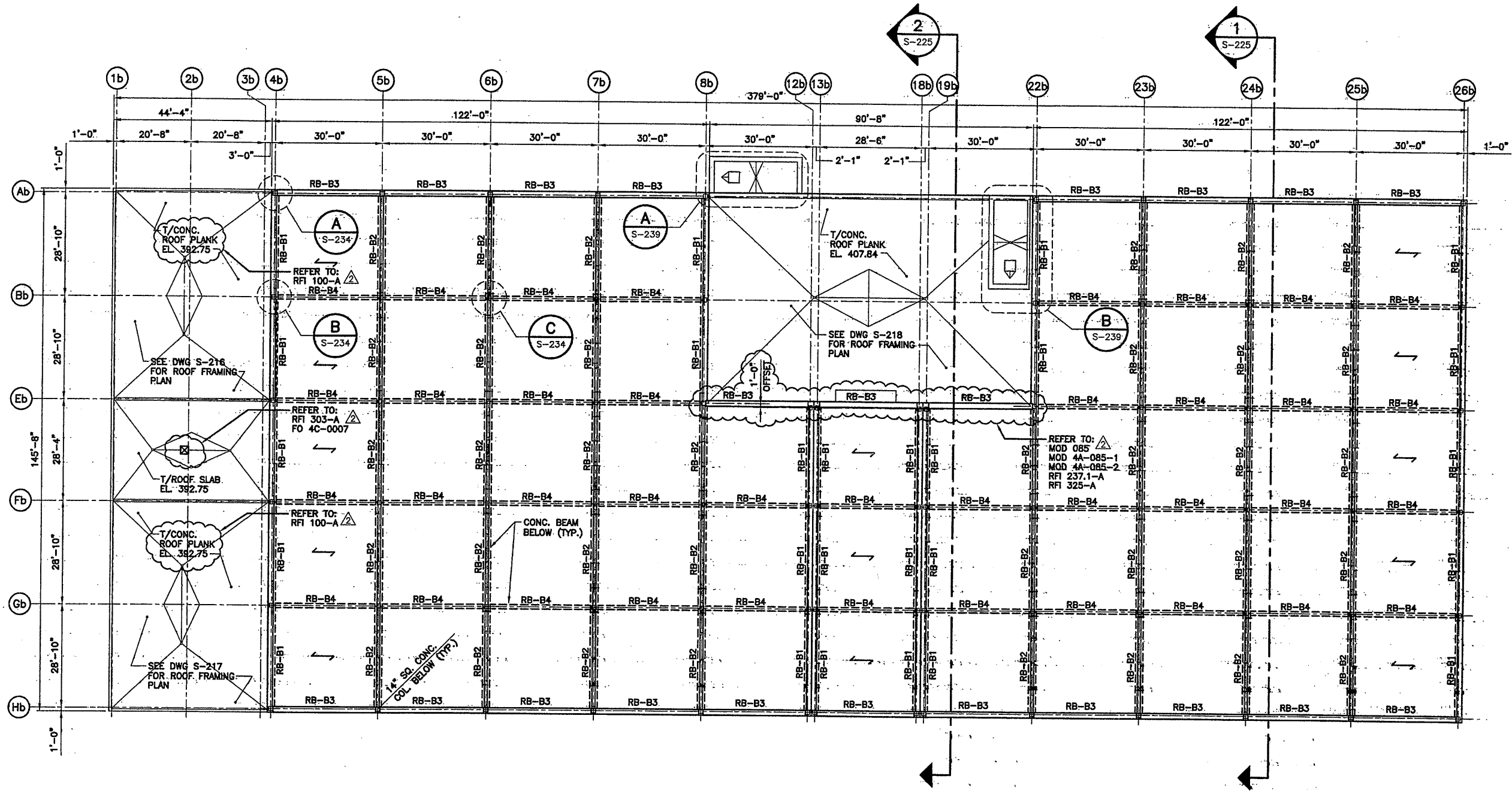
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

BAF PARTIAL PLAN AT EL. 407.84
STRUCTURAL



File Number: 00659
Date: APRIL 2001
S-221

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



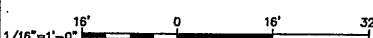
ROOF FRAMING PLAN AT EL. 417.84

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

PLAN NOTES:

1. SPAN OF PRESTRESSED CONCRETE PLANK.
2. 'E' LOCATE EXPANSION BEARING HERE.
3. RB-B1 = ROOF BEAM. SEE ROOF BEAM SCHEDULE AND DETAILS ON SHEET S-234.

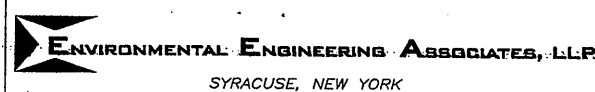
0659x206
07/3/01 OBG RAE
0659x222



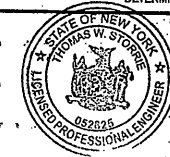
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

No.	Date	Revisions	Init
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In charge of: TWS
Designed by: TWS
Drawn by: RAE
Checked by: CMT



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

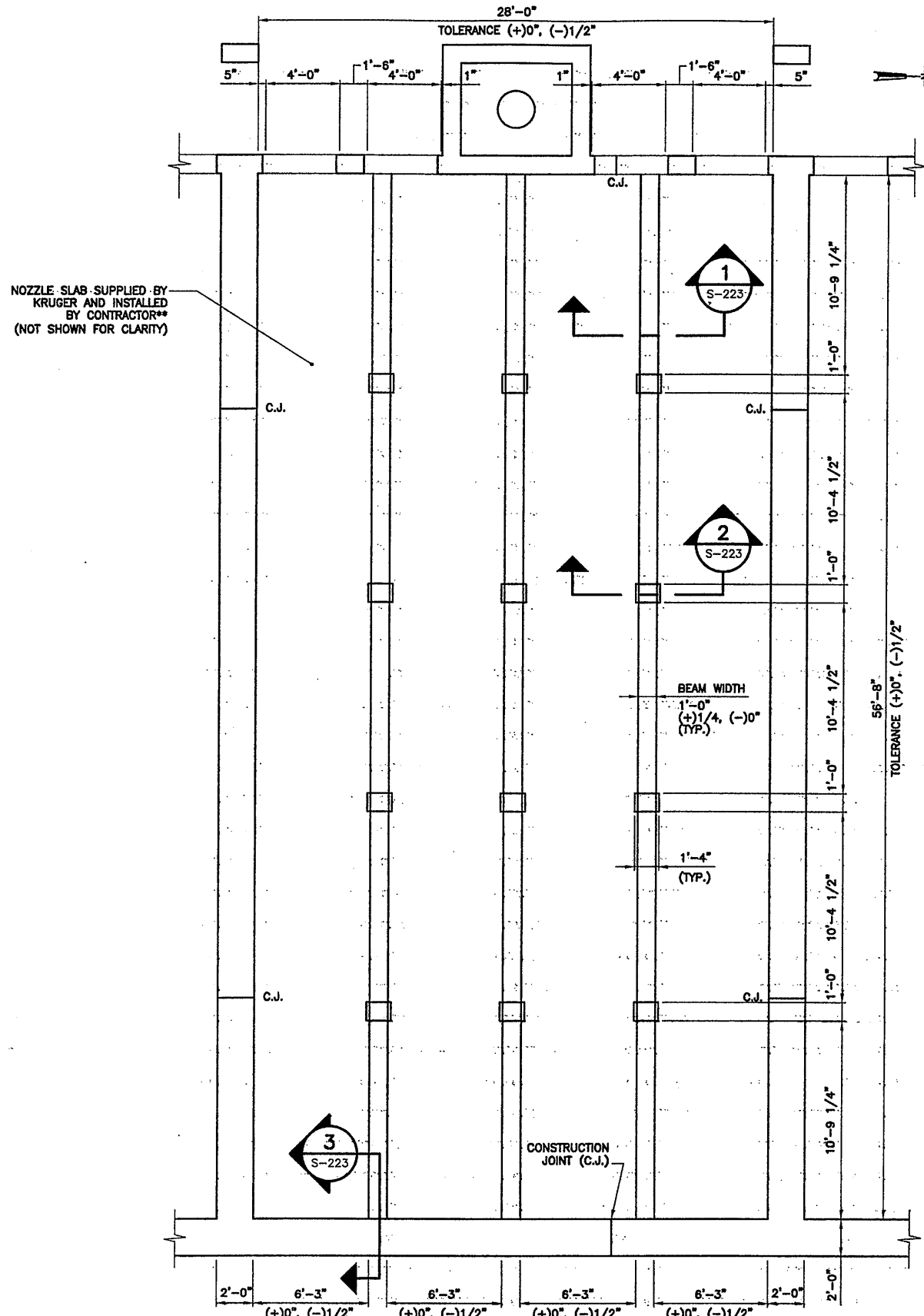


RECORD DRAWING
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DATE: 12/12/05 PER: RCG

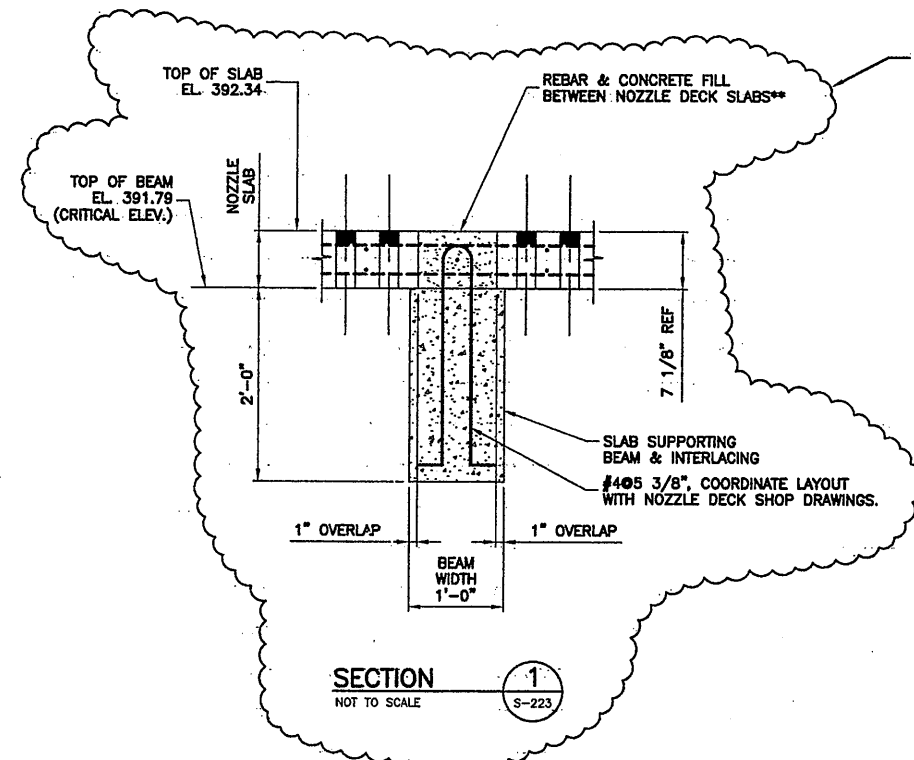
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File Number: 00659
Date: APRIL 2001
S-222

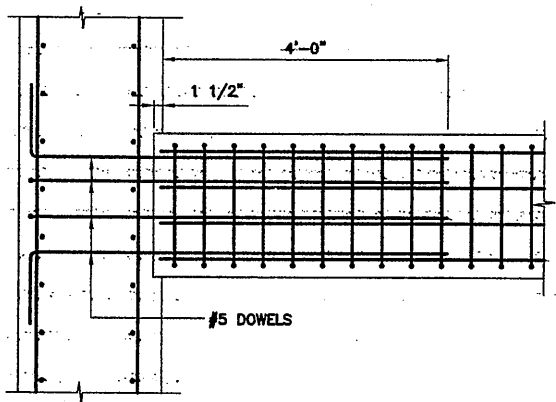
ROOF FRAMING PLAN AT EL. 417.84
STRUCTURAL



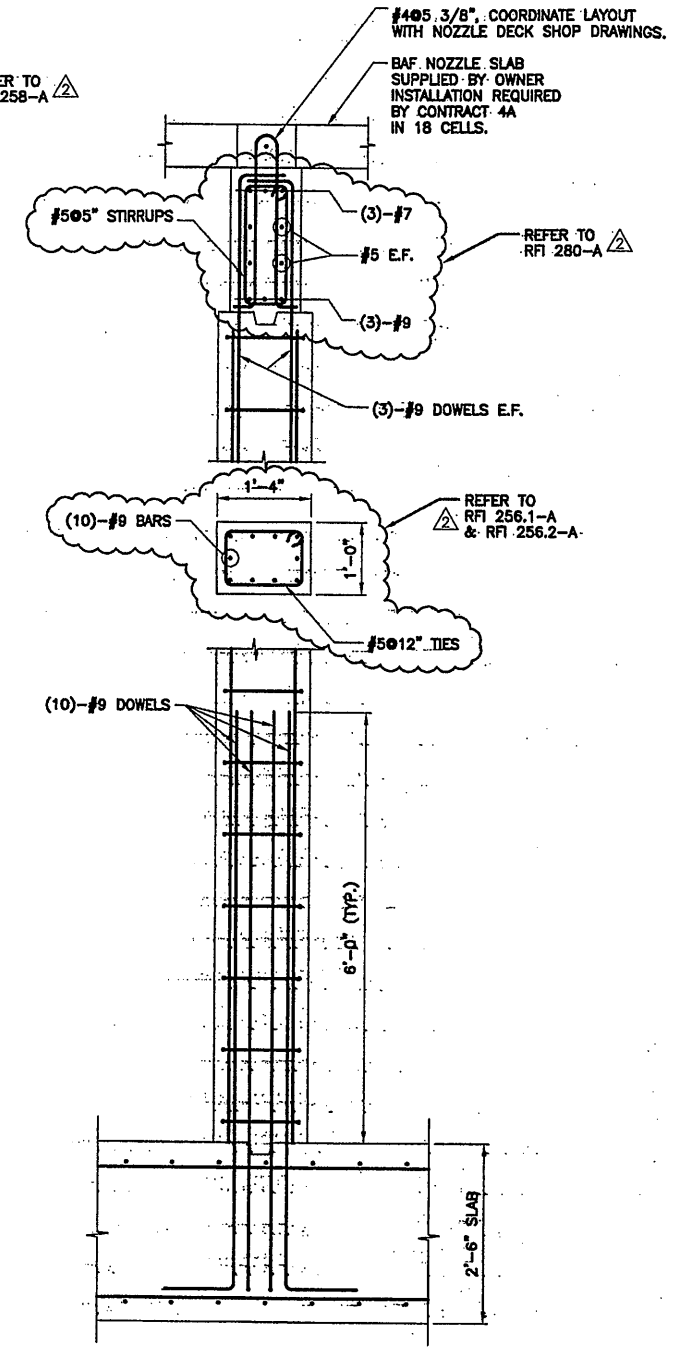
TYPICAL BAF CELL PLAN
SCALE: 1/4" = 1'-0"



SECTION 1
NOT TO SCALE
S-223



SECTION 3
SCALE: 3/4" = 1'-0"
S-223



SECTION 2
SCALE: 3/4" = 1'-0"
S-223

- PLAN NOTES:**
- CONSTRUCTION TOLERANCES FROM CORNER TO CORNER ALONG DIAGONALS AT TOP OF BEAMS, EL. 398.34' FLATNESS TOLERANCE = ±1/8" AND MAX. DIFFERENCE BETWEEN DIAGONALS = 1/2" REFER TO KRUGER DESIGN DRAWING.
 - C.J. = CONSTRUCTION JOINTS - JOINT SHOWN ARE TYPICAL FOR ALL 18 BAF STRUCTURES.

RECORD DRAWING NOTE:
REFER TO MOD 139 REV2, MOD. DWGS. C4AMOD139-1 & C4AMOD139-2 FOR ADDITIONAL WATERSTOP & CONSTRUCTION JOINT DETAILS.

RECORD DRAWING
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DATE: 12/2/05 PER: RCG

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0659X202
03/30/01 OBG RAE
0659S223

1/4" = 1'-0"	0	4	8
3/4" = 1'-0"	0	2	4

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by CMT
Drawn by RAE
Checked by TWS

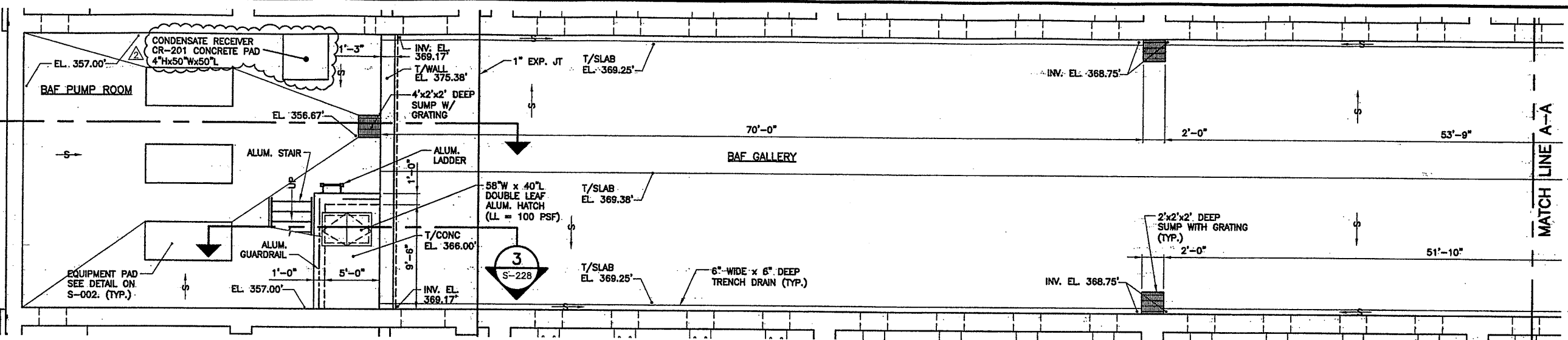
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

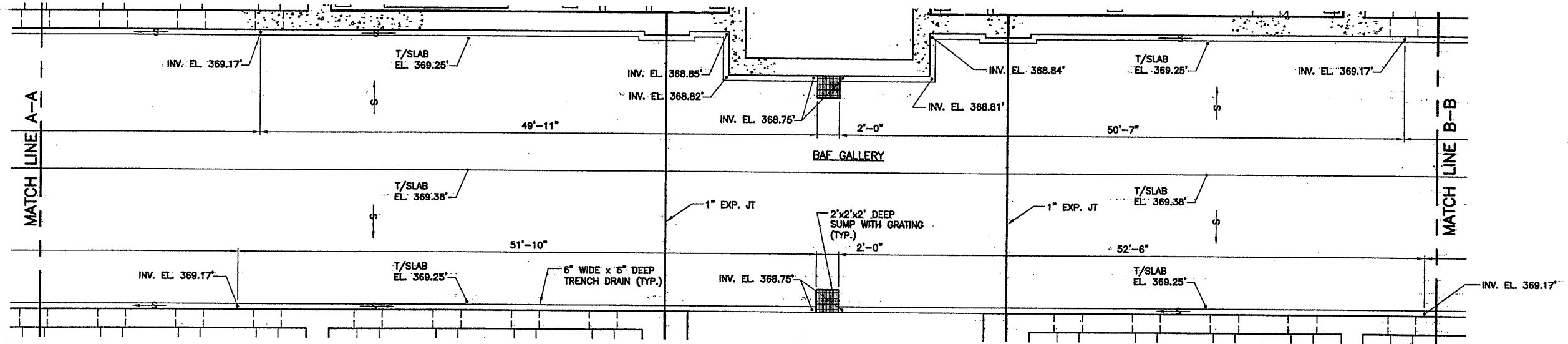
TYPICAL BAF CELL PLAN & SECTION
STRUCTURAL

STATE OF NEW YORK
PROFESSIONAL ENGINEER
05825

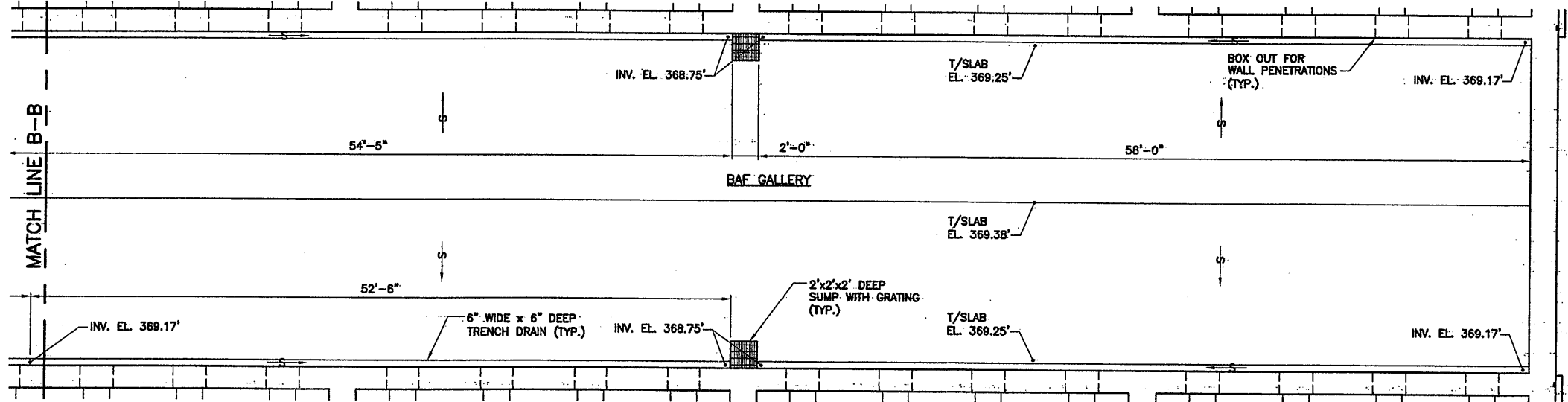
File Number: 00659
Date: APRIL 2001
S-223



PARTIAL PLAN AT EL. 369.38'
SCALE: 3/16"=1'-0"



PARTIAL PLAN AT EL. 369.38'
SCALE: 3/16"=1'-0"



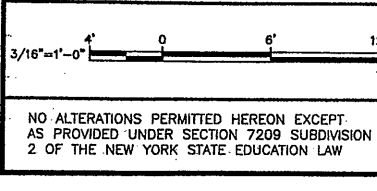
PARTIAL PLAN AT EL. 369.38'
SCALE: 3/16"=1'-0"

RECORD DRAWING
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DATE: 12/17/05 PER: RCG

- PLAN NOTES:
1. COLUMNS & COL BASES FOR WALKWAY & PLATFORM NOT SHOWN FOR CAVITY.
 2. COORDINATE EQUIPMENT PAD SIZES AND LOCATIONS WITH MECH. DRAWINGS.
 3. SEE M-209 FOR WALL FITTINGS INTO BAF WALLS.

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0659x201
07/3/01 OBG RAE
0659x224



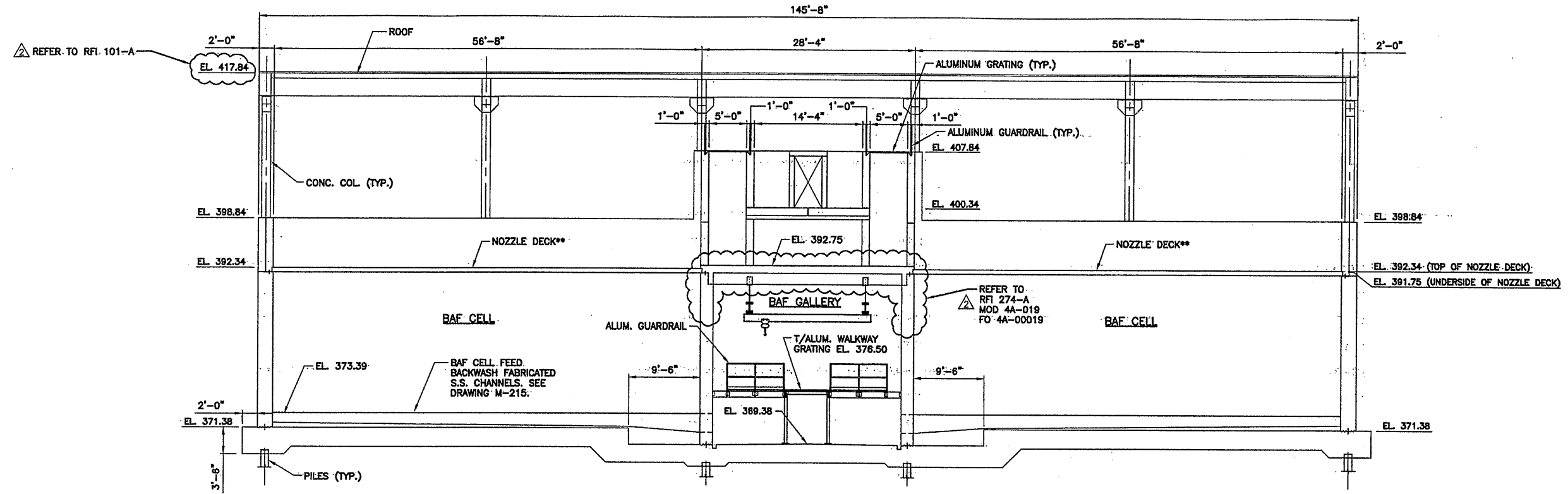
No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by CMT
Drawn by RAE
Checked by TWS

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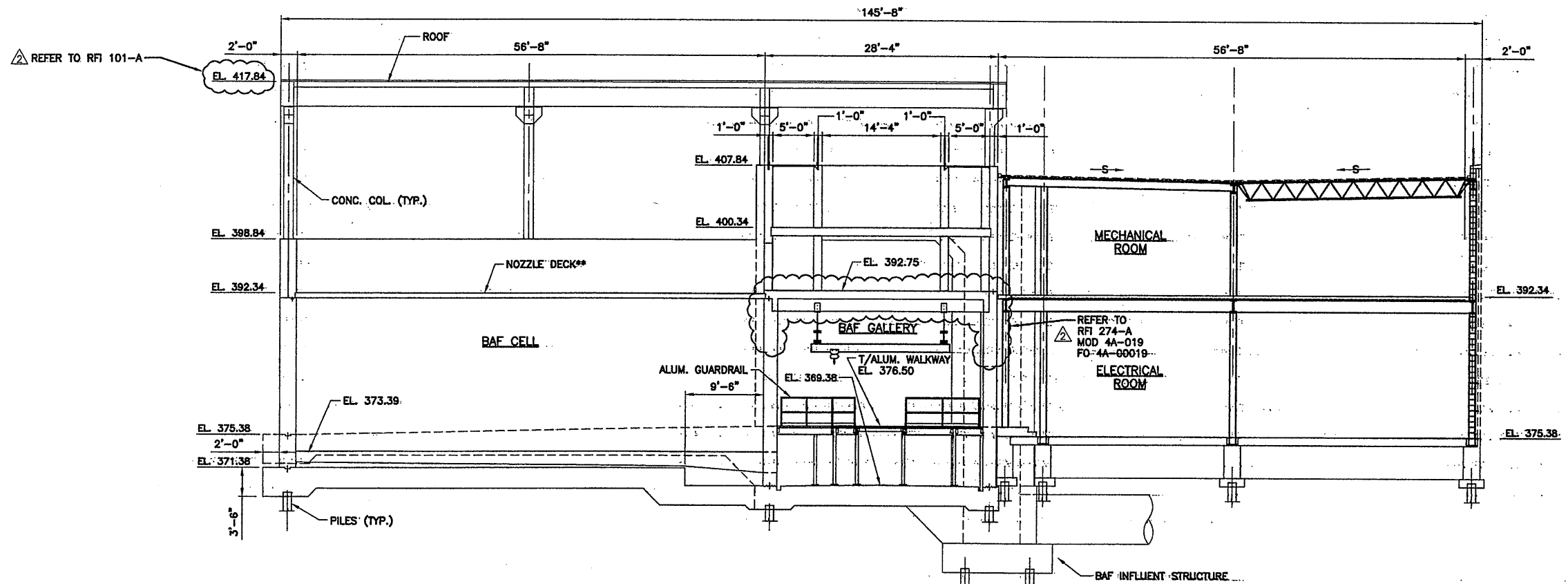
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
BAF PUMP ROOM / BAF GALLERY
PARTIAL PLANS -
SUMPS, TRENCH DRAINS & EQUIP. PADS
STRUCTURAL

File Number: 00659
Date: APRIL 2001
S-224



SECTION
SCALE: 1/8"=1'-0"
1 1 1 1
S-201 S-208 S-215 S-222

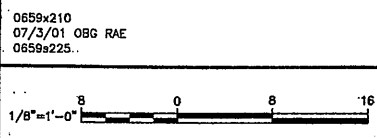
SECTION NOTE:
1. NOZZLE DECK SUPPORT BEAMS & COLUMNS NOT SHOWN. SEE S-223.



SECTION
SCALE: 1/8"=1'-0"
2 2 2 2
S-201 S-208 S-215 S-222

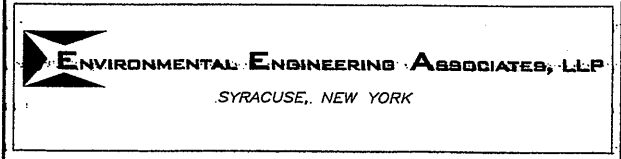
RECORD DRAWING
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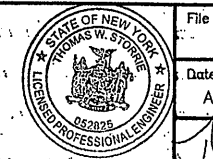


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2	10/31/05	RECORD DRAWING	RCG

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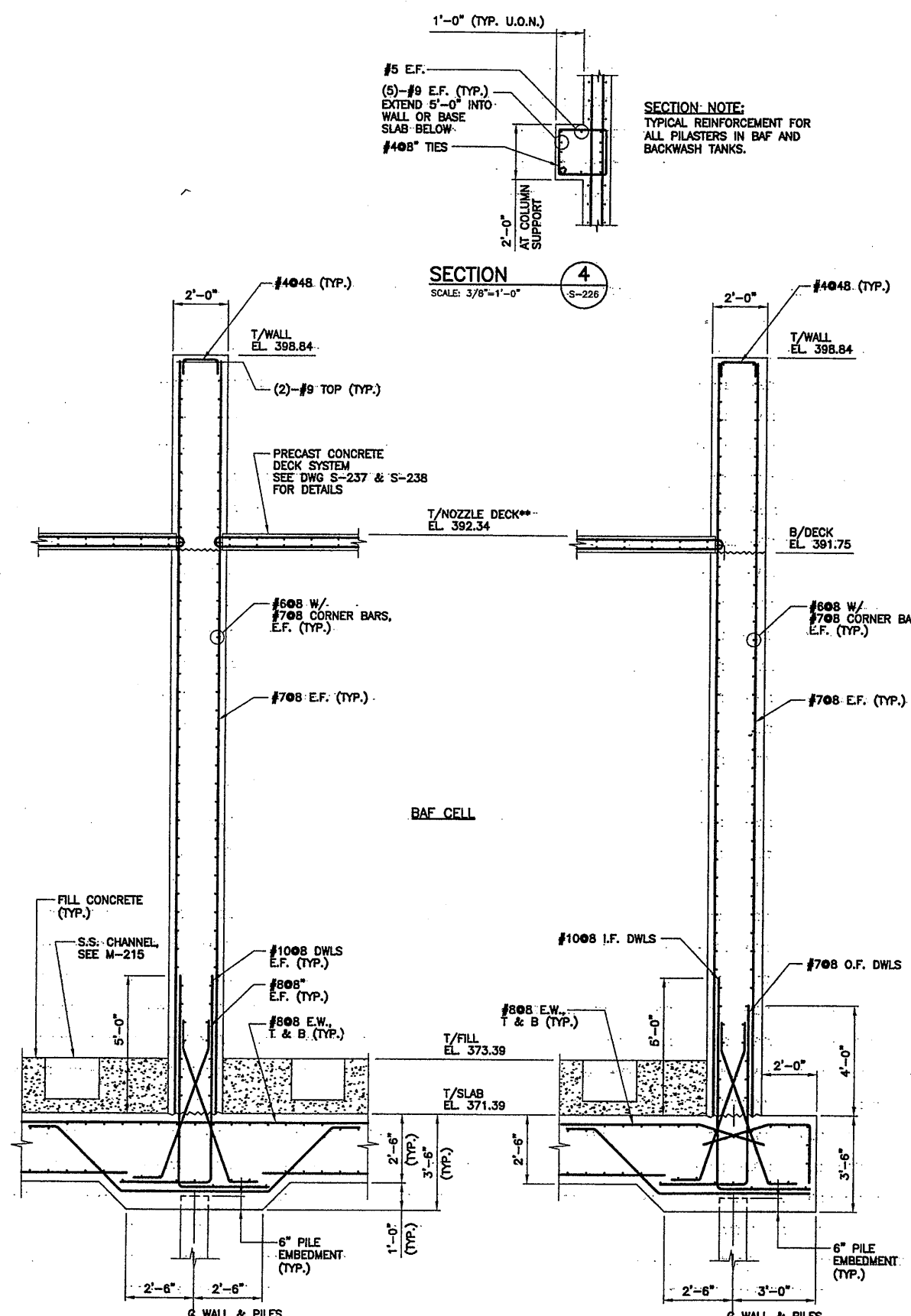
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number: '00659
Date: APRIL 2001
S-225

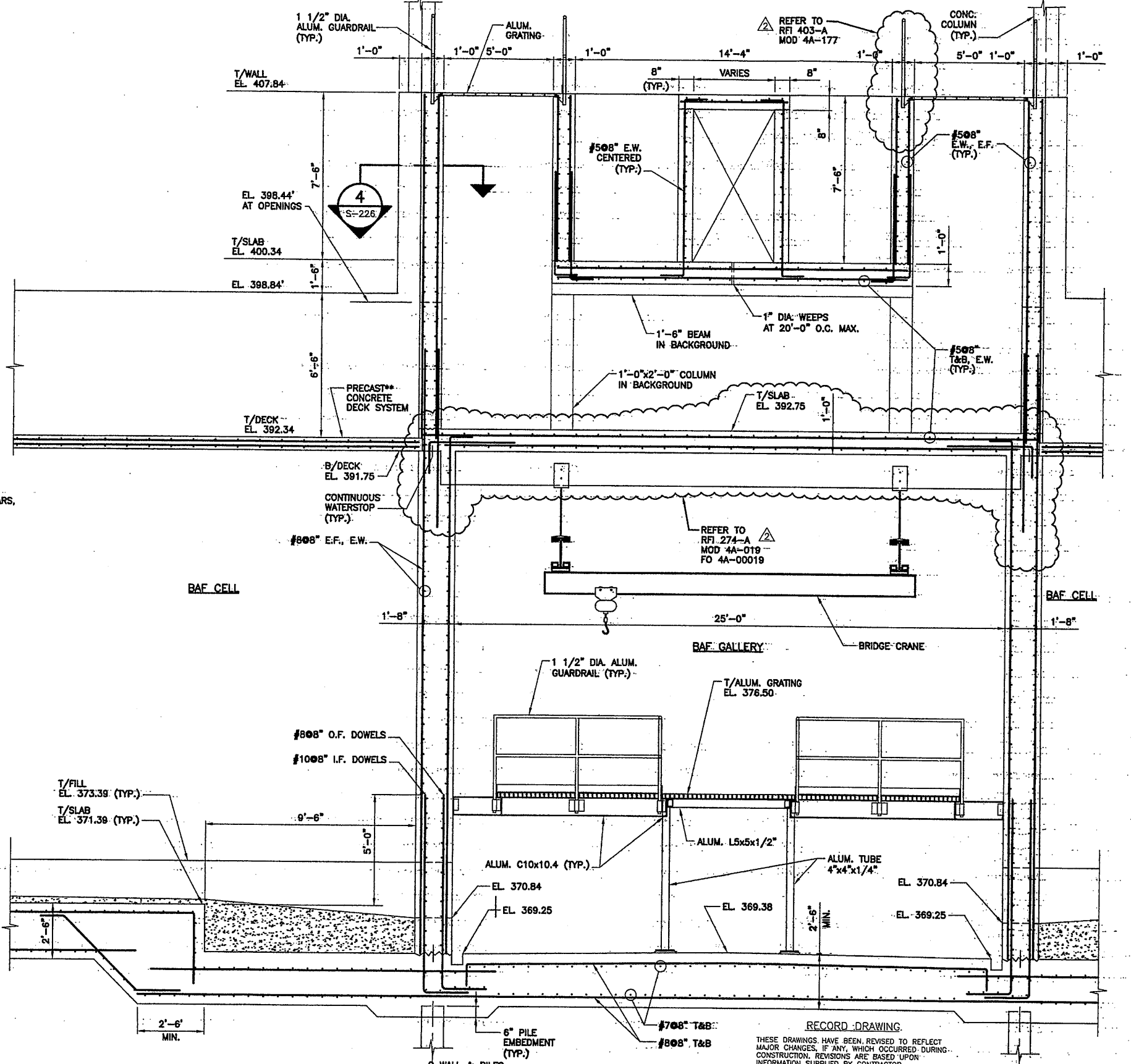
SECTIONS AND DETAILS
STRUCTURAL

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



SECTION 4
SCALE: 3/8"=1'-0"
S-226

SECTION NOTE:
TYPICAL REINFORCEMENT FOR ALL PILASTERS IN BAF AND BACKWASH TANKS.



SECTION 3
SCALE: 3/8"=1'-0"
S-206 S-213 S-220

SECTION NOTES:
1. NOZZLE DECK SUPPORT BEAMS NOT SHOWN, SEE S-223.
2. ROUGHEN CONCRETE SURFACES TO RECEIVE FILL CONCRETE WITH RACK.

RECORD DRAWING
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DATE: 12/2/00 PER: RAE

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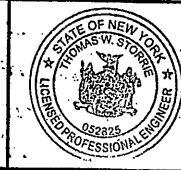
07/3/01 OBG RAE
0559226

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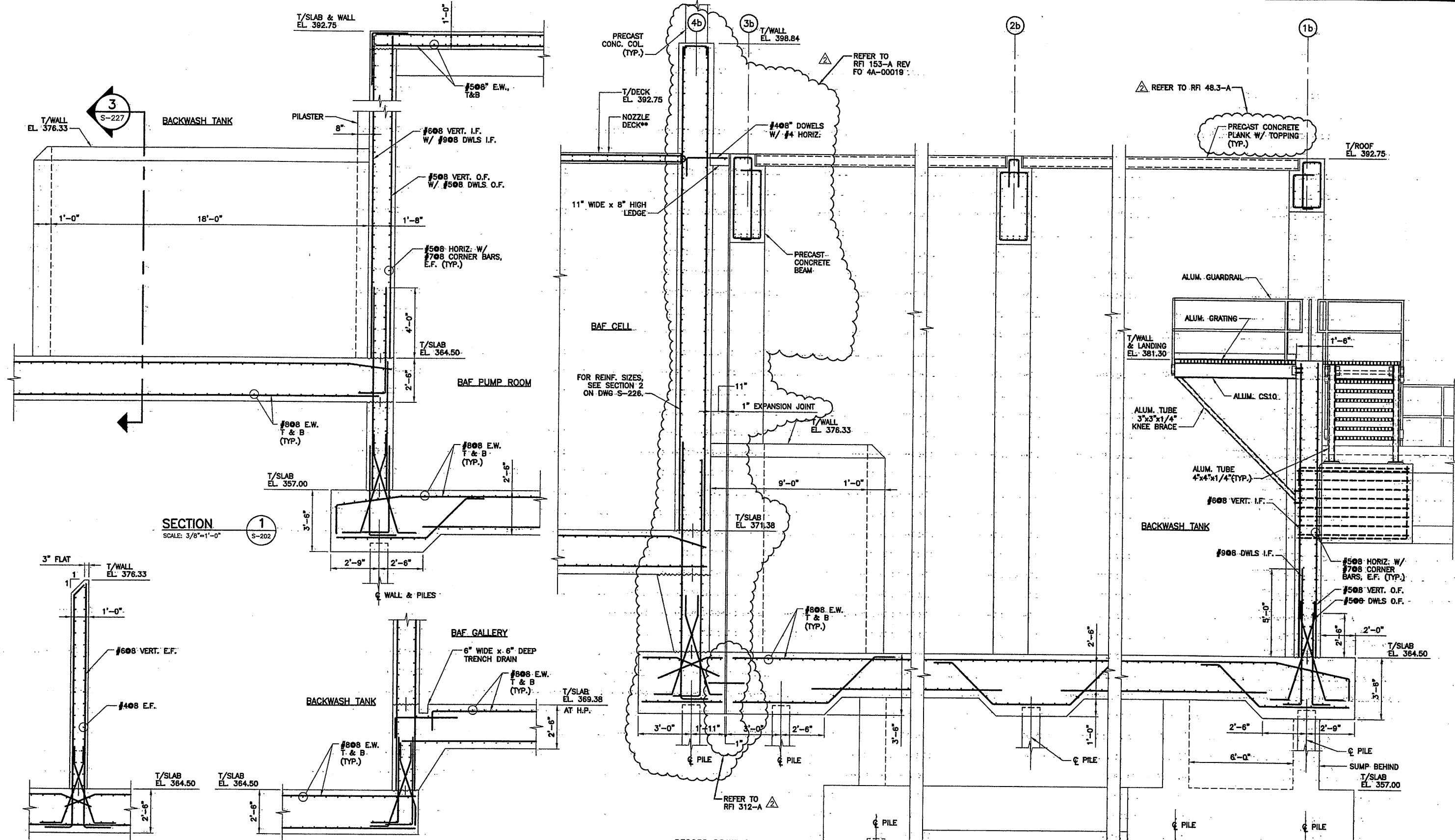


File Number: 00659
Date: APRIL 2001

S-226

SECTIONS AND DETAILS
STRUCTURAL

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SECTION 1
SCALE: 3/8"=1'-0"
S-202

SECTION 3
SCALE: 3/8"=1'-0"
S-227

SECTION 4
SCALE: 3/8"=1'-0"
S-202

SECTION 2
SCALE: 3/8"=1'-0"
S-202 S-209 S-216

RECORD DRAWING
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07/3/01 OBG RAE
0659227.DWG



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0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
Designed by: CMT
Drawn by: RAE
Checked by: TWS

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SYRACUSE, NEW YORK

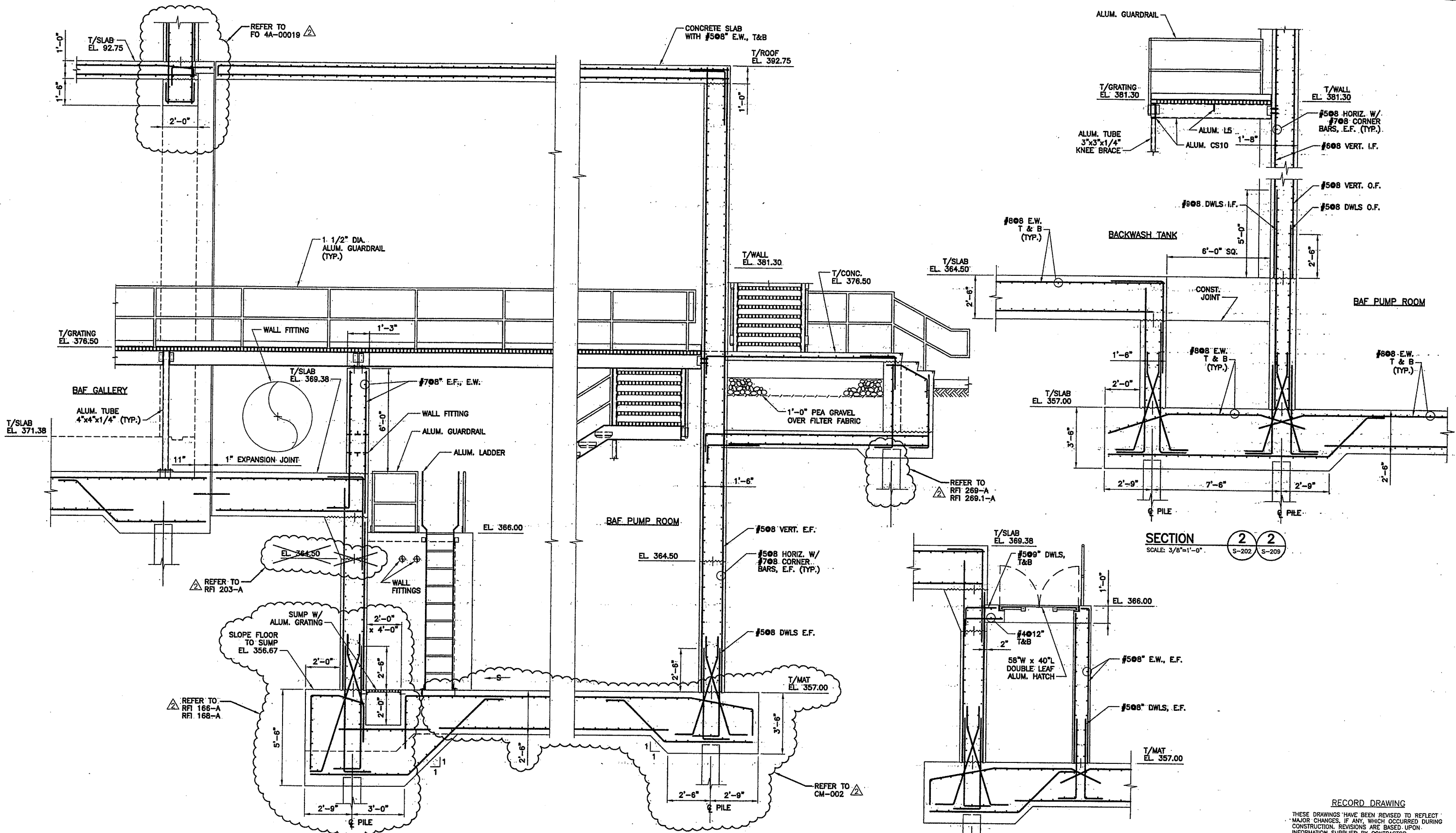
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number
00659
Date:
APRIL 2001

S-227

SECTIONS AND DETAILS
STRUCTURAL



SECTION 1
SCALE: 3/8"=1'-0"
S-202 S-209 S-216 S-224

SECTION 2
SCALE: 3/8"=1'-0"
S-202 S-209

SECTION 3
SCALE: 3/8"=1'-0"
S-224

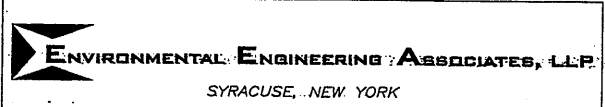
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07/3/01 OBG RAE
0659s228.DWG

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1	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by CMT
Drawn by RAE
Checked by TWS

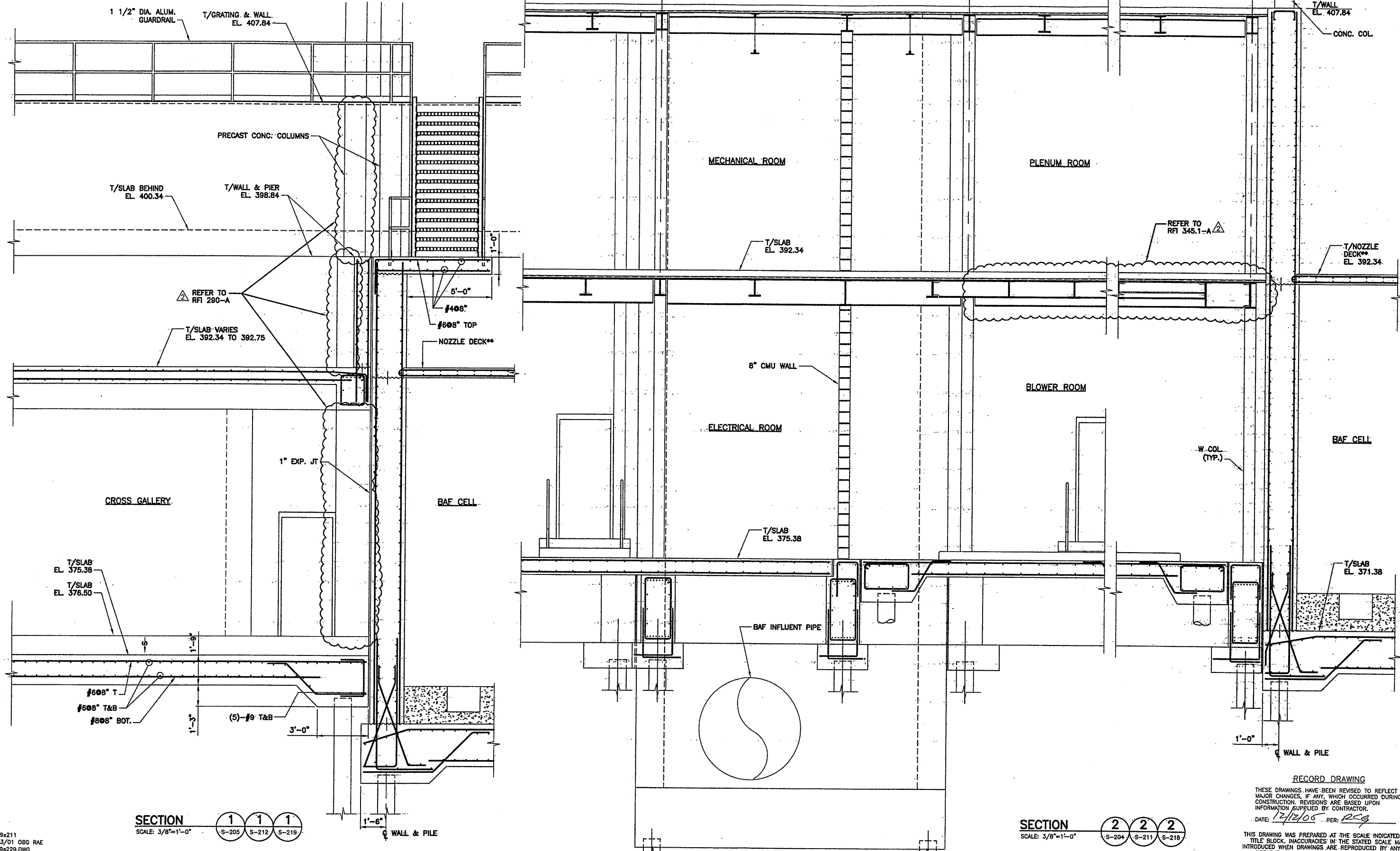


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

File Number 00659
Date APRIL 2001
S-228

SECTIONS AND DETAILS
STRUCTURAL

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

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

RECORD DRAWING
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0659x211
07/3/01 OBG RAE
0659x229.DWG

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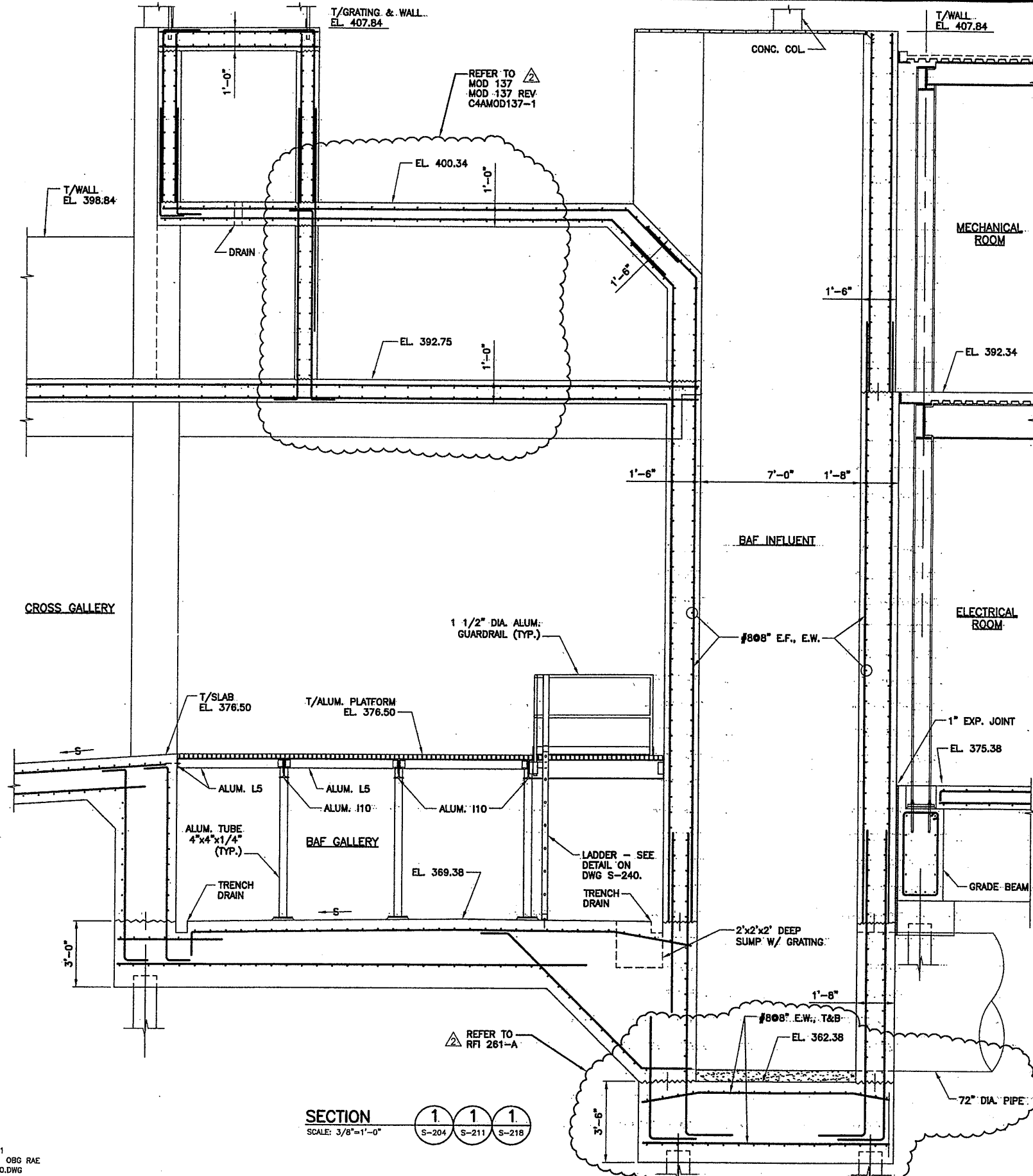
In charge of: TWS
Designed by: CMT
Drawn by: RAE
Checked by: TWS

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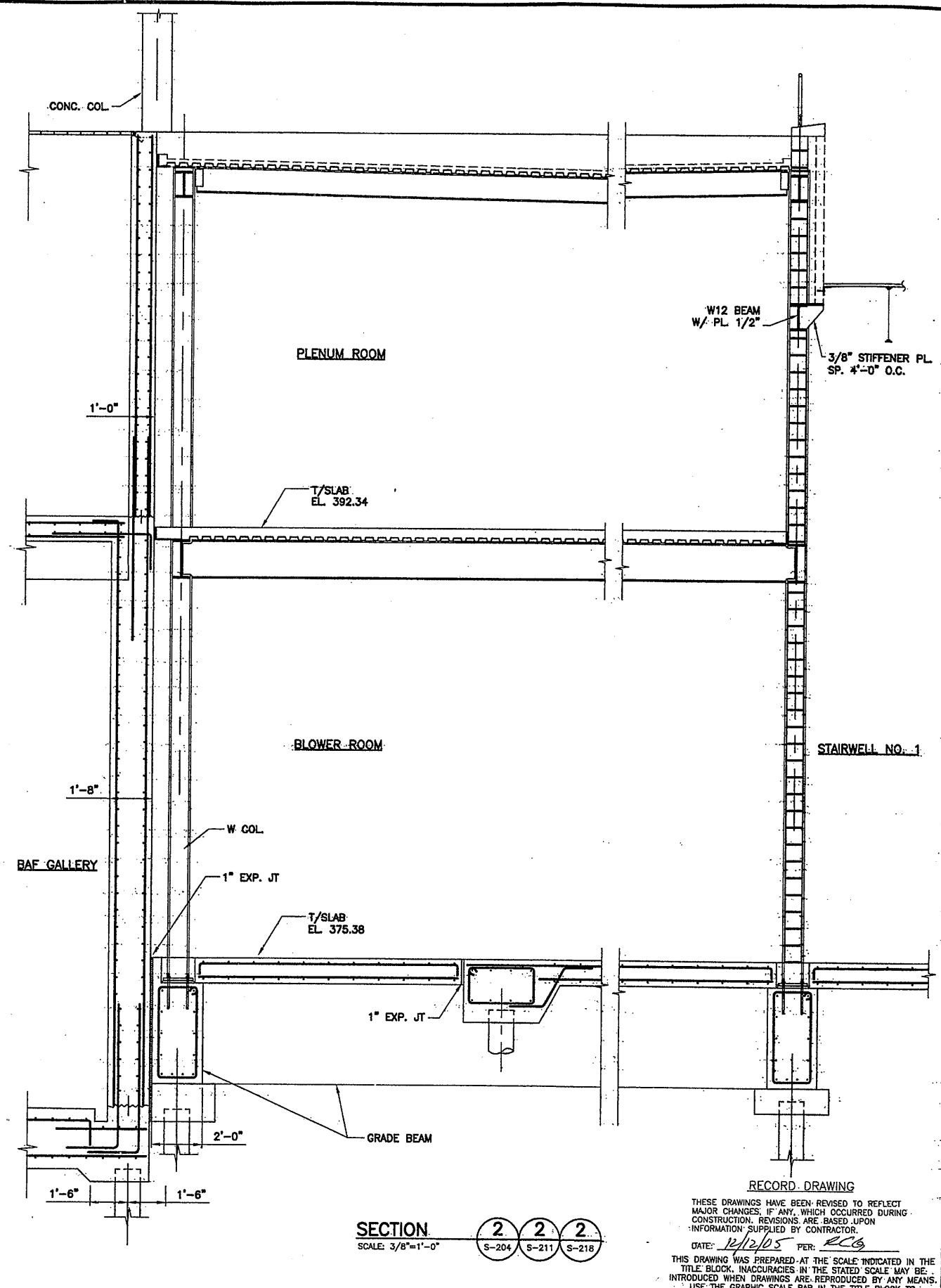
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

File Number: 00659
Date: APRIL 2001
S-229

SECTIONS AND DETAILS
STRUCTURAL



SECTION 1
SCALE: 3/8"=1'-0"
S-204 S-211 S-218



SECTION 2
SCALE: 3/8"=1'-0"
S-204 S-211 S-218

RECORD DRAWING

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0659x211
07/3/01 OBC RAE
0659x230.DWG

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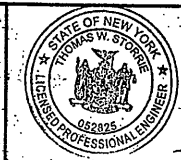
No.	Date	Revisions	Init
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2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by CMT
Drawn by RAE
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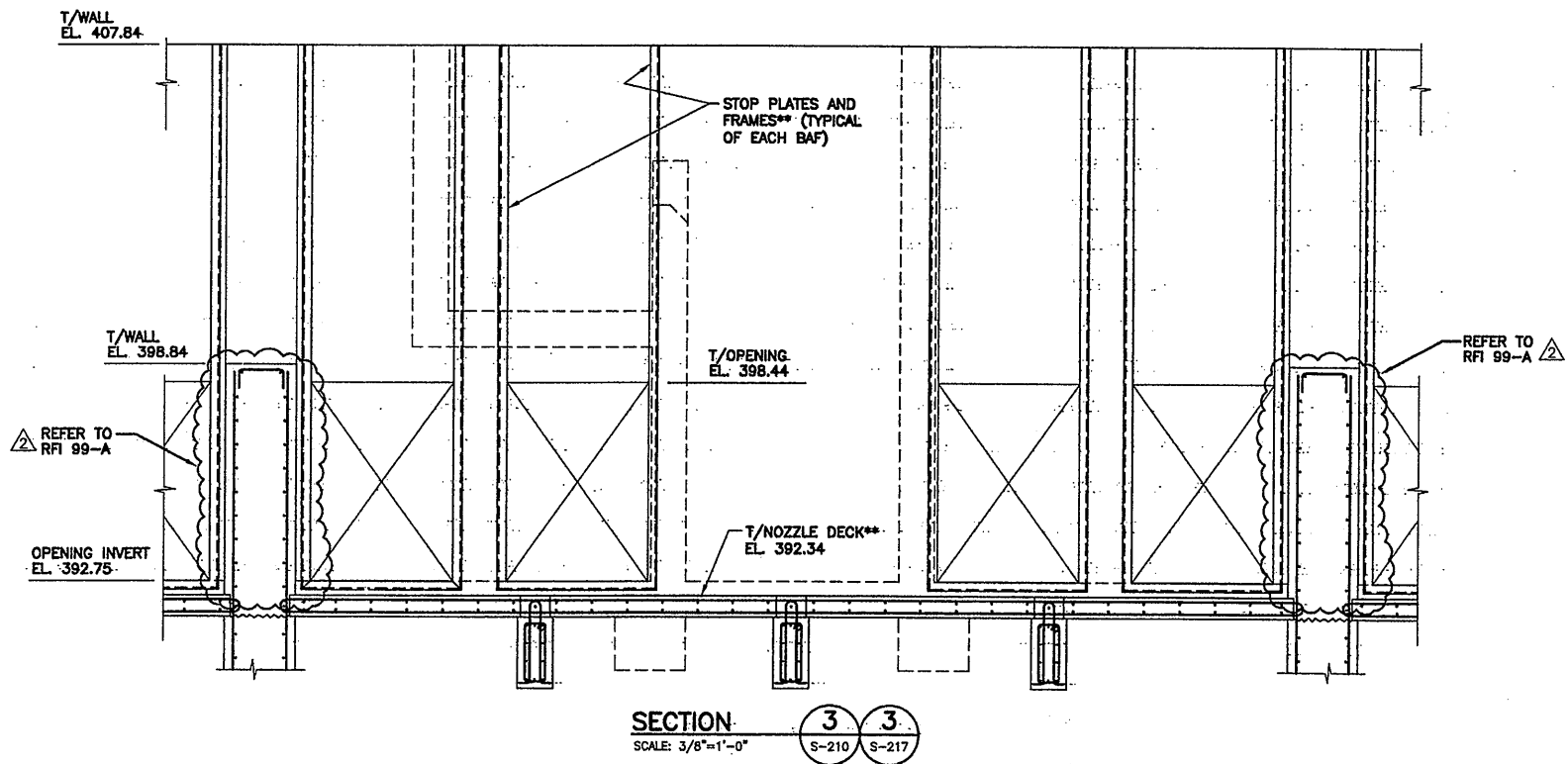
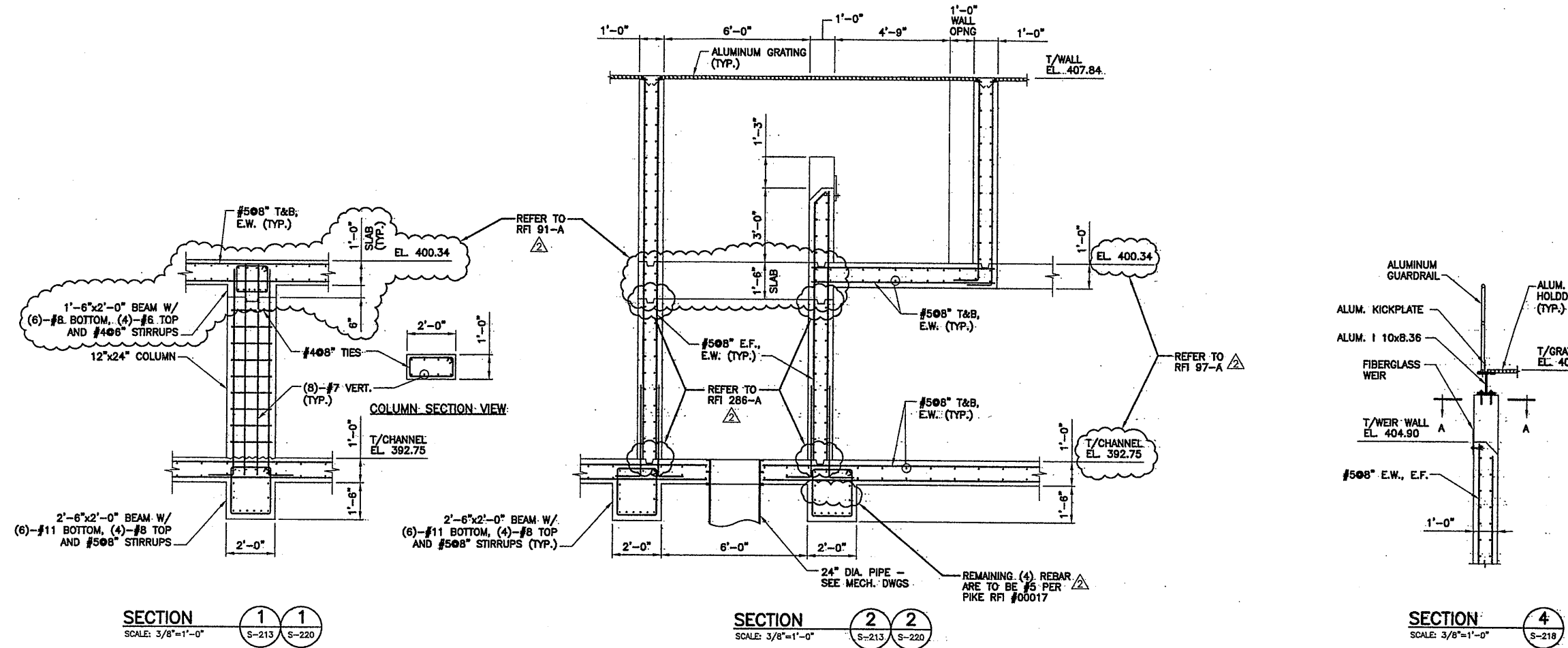
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

SECTIONS AND DETAILS
STRUCTURAL



File Number: 00659
Date: APRIL 2001
S-230



RECORD DRAWING
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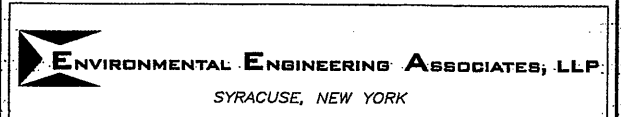
07/3/01 OBG RAE
0659232

3/8"=1'-0"
0 2' 3' 6'

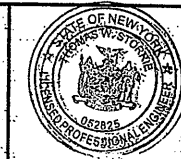
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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT



File Number
00659
Date
APRIL 2001

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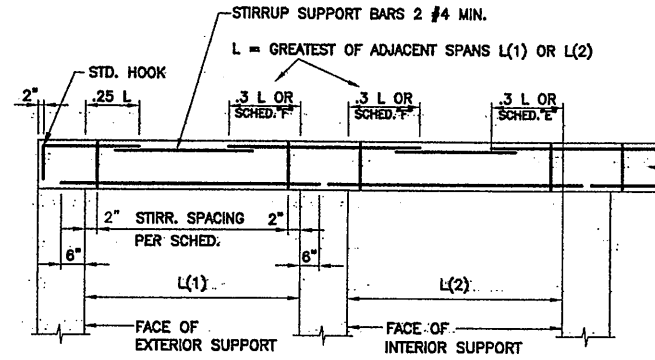
SECTIONS AND DETAILS
STRUCTURAL

BEAM SCHEDULE

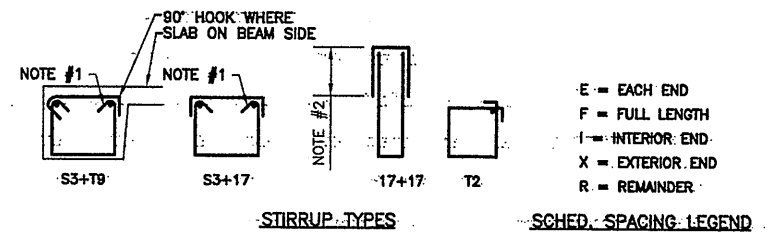
SEE DETAILS "A" & "B"
"E" & "F" DIMENSION TOP BAR EA. SIDE OF SUPPORT Q
NOTED IN "FEET" ONLY IF DIFFERENT THAN STANDARD DETAIL

MARK	SIZE		REINFORCING				SECTION		STIRRUPS			REMARKS			
	WIDTH	DEPTH	B	T	C	H	E	F	TYPE	Q	Q		SIZE	SPACING	TYPE
BAF - BLOWER ROOM & ELEC. ROOM															
BAFB1	24"	48"	4-#6	4-#6	2-#4	-	-	7'	3			#4	15"	T2	NOTES 1, 2
BAFB2	24"	48"	8-#7	8-#9	2-#4	3-#6	-	9'	2			#5	15"	T2	NOTES 1, 2
BAFB3	12"	24"	3-#7	-	2-#4	3-#6	-	-	1			#4	15"	T2	NOTES 1, 2
BAFB4	24"	48"	7-#8	-	2-#4	3-#6	-	-	1			#4	15"	T2	NOTES 1, 2
BAF - EFFLUENT CHANNEL															
BAFB5	24"	30"	6-#10	-	5-#7	5-#7	-	-	1			#6	12"		
BAFB6	24"	30"	6-#8	-	5-#7	5-#7	-	-	1			#5	12"		
BAFB7	24"	30"	6-#10	6-#10	6-#10	-	-	-	2			#6	12"		

- SCHEDULE NOTES:**
- BEAMS SCHED. WITH EQUIV. REINF AT "H", "C", OR "T" CAN BE CONT. REINF. OR LAP AT MIDSPAN.
 - FOR BEAMS GREATER THAN 18" DEEP ADD #5@12" HORIZ. E.F. REINF. U.O.N.
 - HORIZ. BEAMS WITHIN SLABS: CONT. AND OTHER REINF. DETAILED W/SLAB SCHEDULE AND SECTIONS. HORIZ. BEAM STRIPS WITHIN WALLS: CONT. REINF. DETAILED W/ WALL SCHEDULE AND SECTIONS.

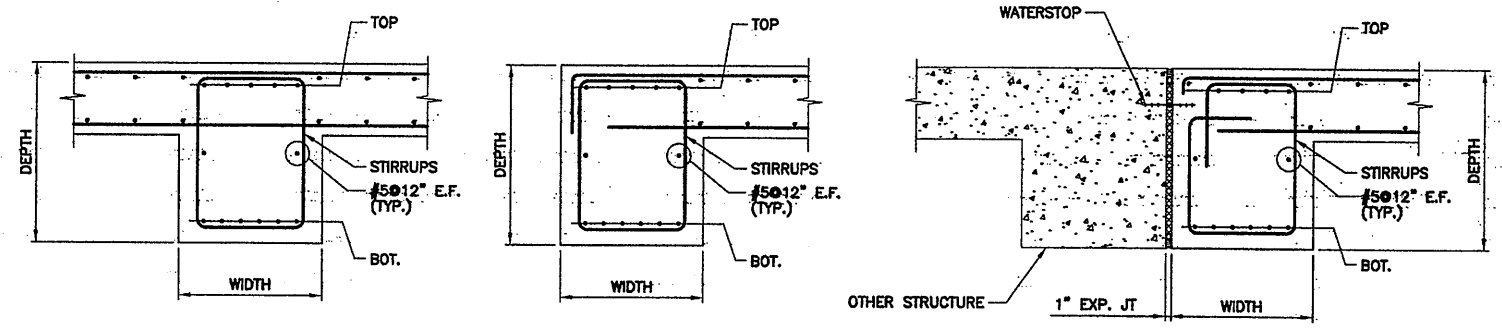


BEAM REINFORCING DETAIL
NOT TO SCALE



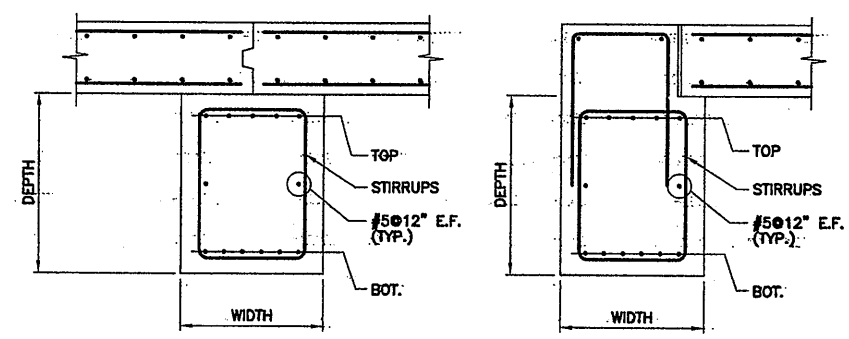
BEAM STIRRUP DETAILS
NOT TO SCALE

- DETAIL NOTES:**
- #3, #4, & #5 STIRR.: HOOK W/ 6 BAR DIA. EXTENSION AND CONT. REINF. AT BEND = BEAM "T", "C", "H" REINF. OR #4.
 - 17+17 STIRR. LAP => SEE LAP SCHED.



BEAM REINFORCING DETAILS
NOT TO SCALE

SECTION 1
NOT TO SCALE



GRADE BEAM REINFORCING DETAILS
NOT TO SCALE

- DETAIL NOTE:**
SEE DWG S-233 FOR DETAILS.

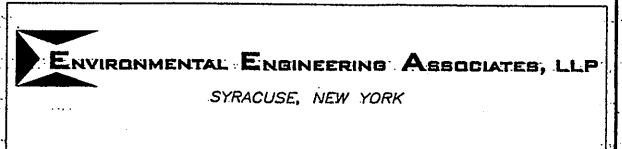
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07/3/01 OBG RAE
06599235

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1		AS BID	
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Designed by CMT
Drawn by RAE
Checked by TWS

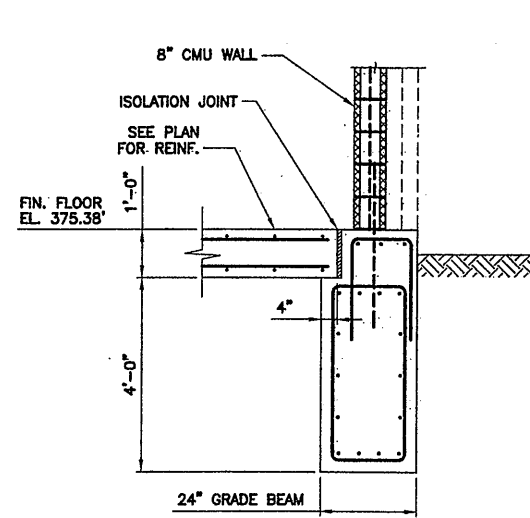


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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

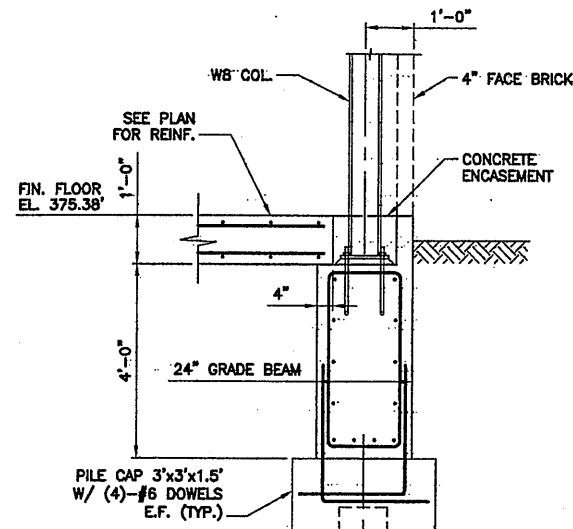
BEAM SCHEDULE, SECTIONS & DETAILS
STRUCTURAL



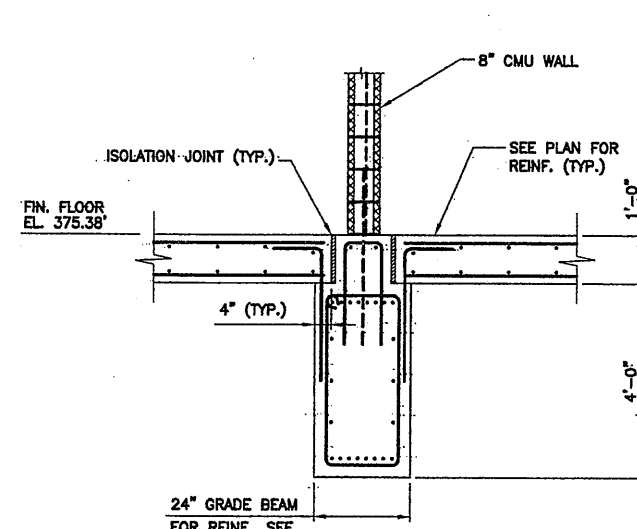
File Number 00659
Date APRIL 2001
S-232



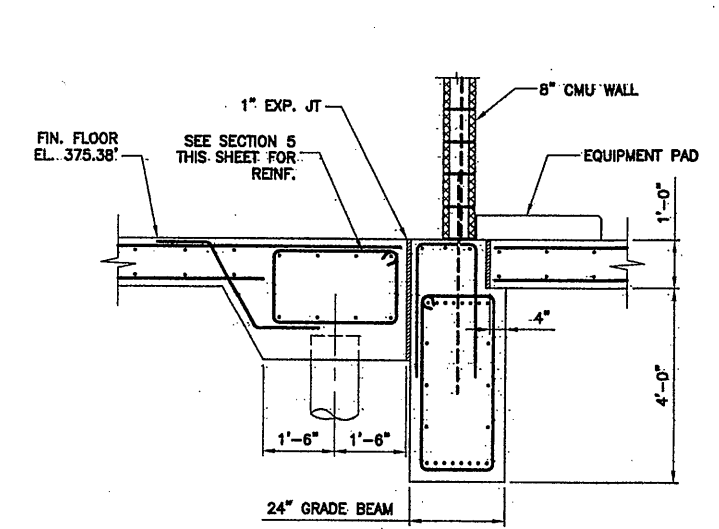
SECTION 1
SCALE: 1/2"=1'-0"
S-204



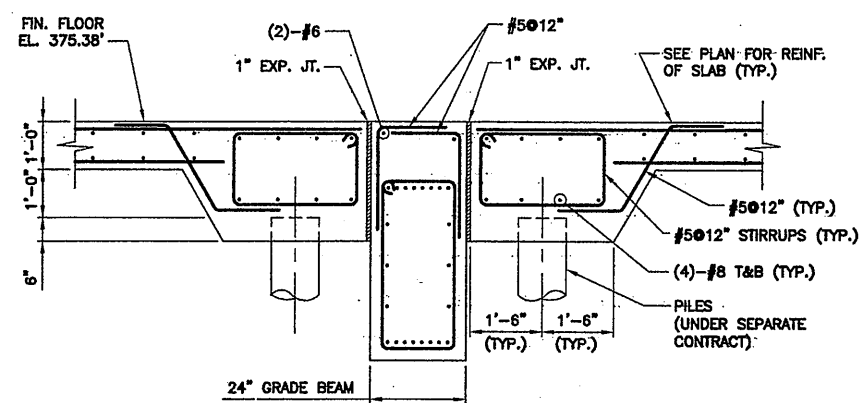
SECTION 2
SCALE: 1/2"=1'-0"
S-204



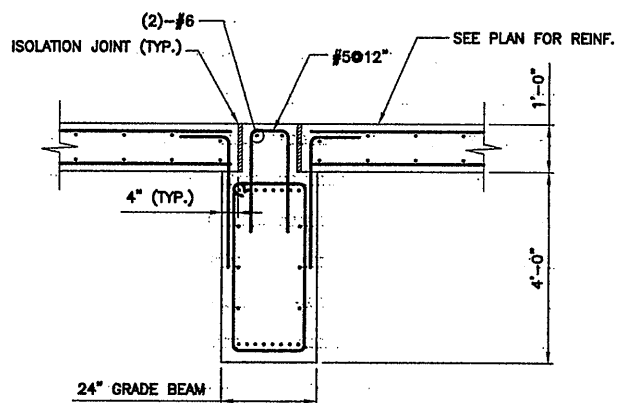
SECTION 3
SCALE: 1/2"=1'-0"
S-204



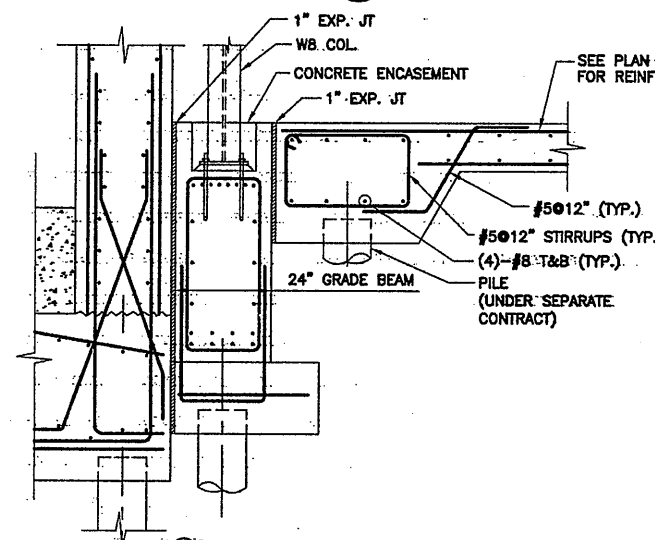
SECTION 4
SCALE: 1/2"=1'-0"
S-204



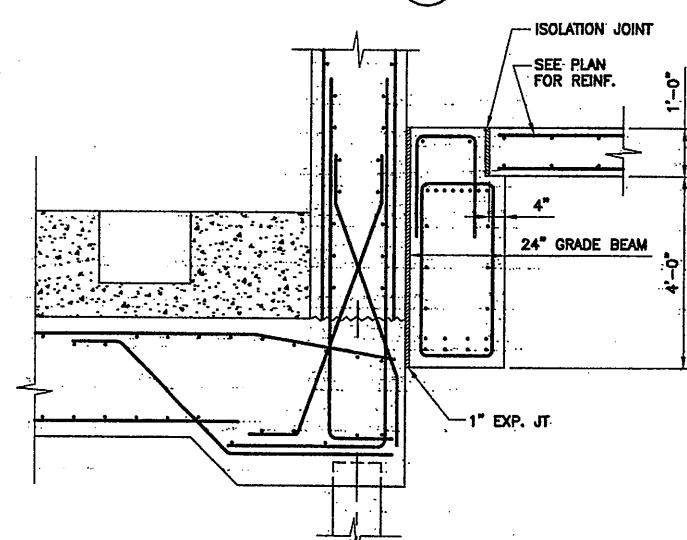
SECTION 5
SCALE: 1/2"=1'-0"
S-204



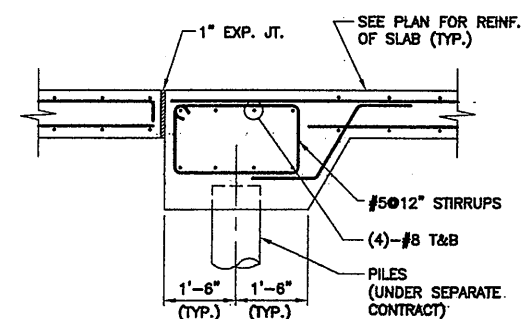
SECTION 6
SCALE: 1/2"=1'-0"
S-204



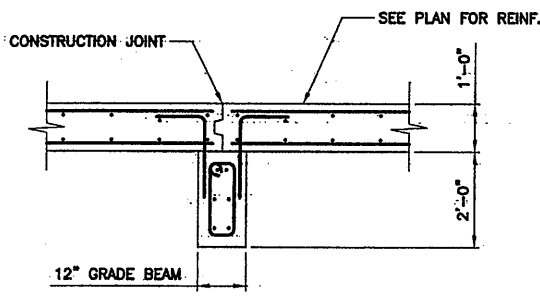
SECTION 7
SCALE: 1/2"=1'-0"
S-204



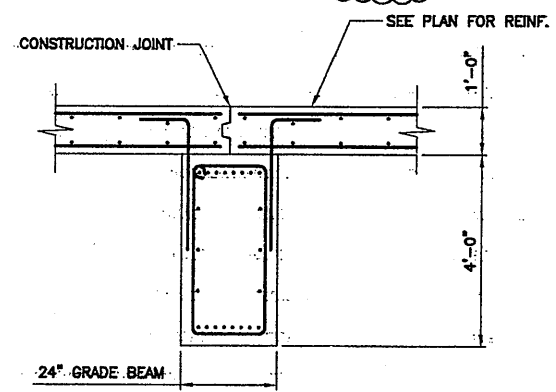
SECTION 8
SCALE: 1/2"=1'-0"
S-204



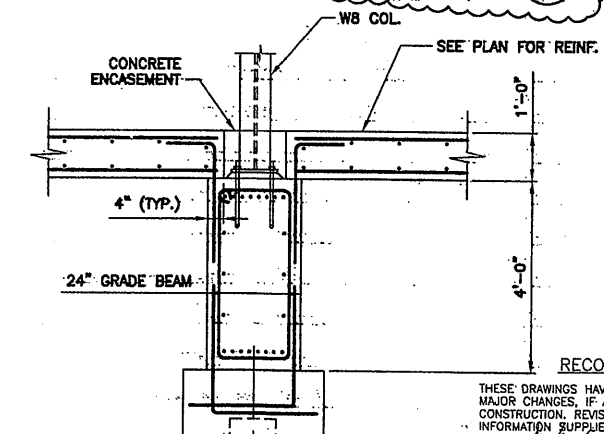
SECTION 9
SCALE: 1/2"=1'-0"
S-204



SECTION 10
SCALE: 1/2"=1'-0"
S-204



SECTION 11
SCALE: 1/2"=1'-0"
S-204



SECTION 12
SCALE: 1/2"=1'-0"
S-204

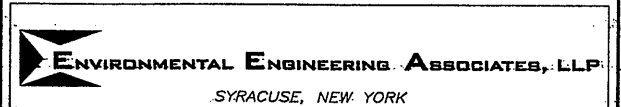
RECORD DRAWING NOTE
ALL OTHER SECTIONS ARE SHOWN
CORRECTLY PER RFI 252-A

RECORD DRAWING
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MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING
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INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 4/10/01 PER: RAE
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0659#233

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
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2	10/31/05	RECORD DRAWING	RCG

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ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
BAF BLOWER ROOM/BAF ELEC. ROOM
FOUNDATION
SECTIONS & DETAILS
STRUCTURAL

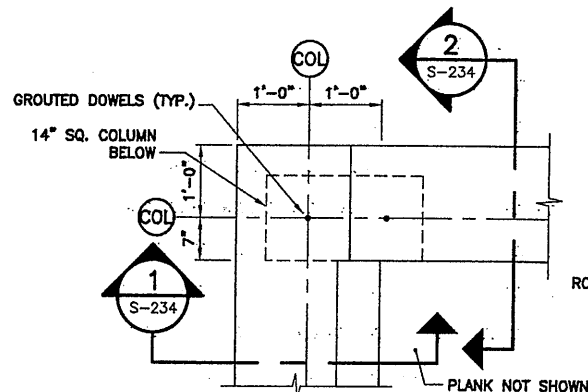
STATE OF NEW YORK
THOMAS W. STORER
LICENSED PROFESSIONAL ENGINEER
052825

File Number
00659

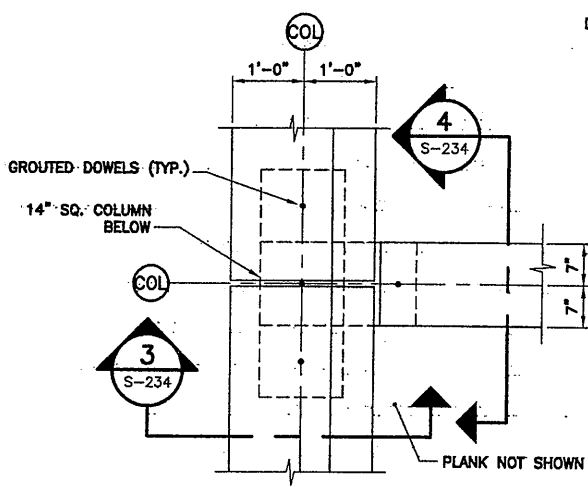
Date
APRIL 2001

S-233

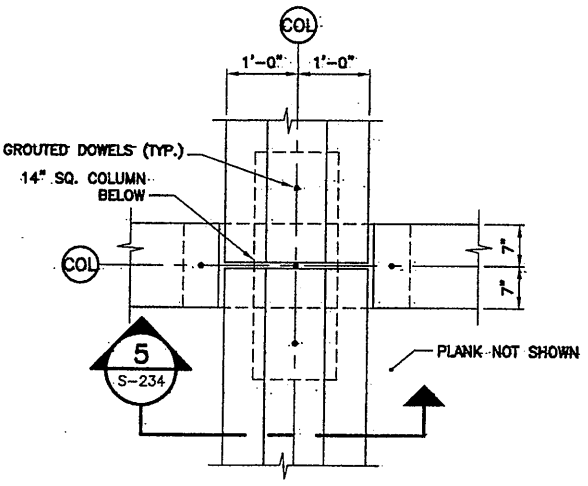
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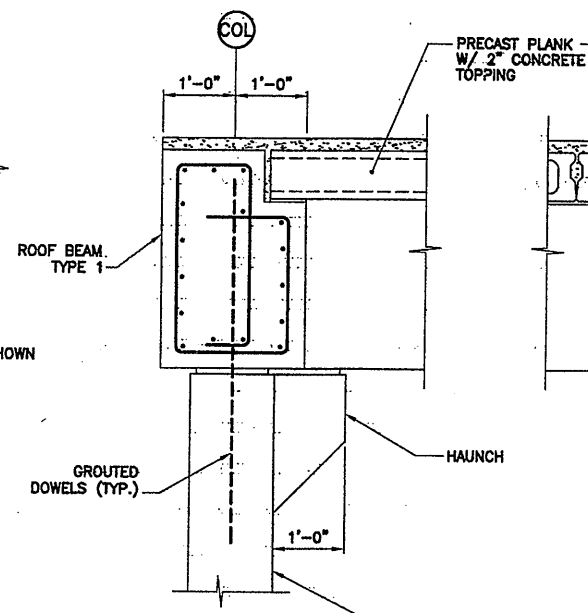
PLAN AT CORNER A
SCALE: 3/4" = 1'-0"



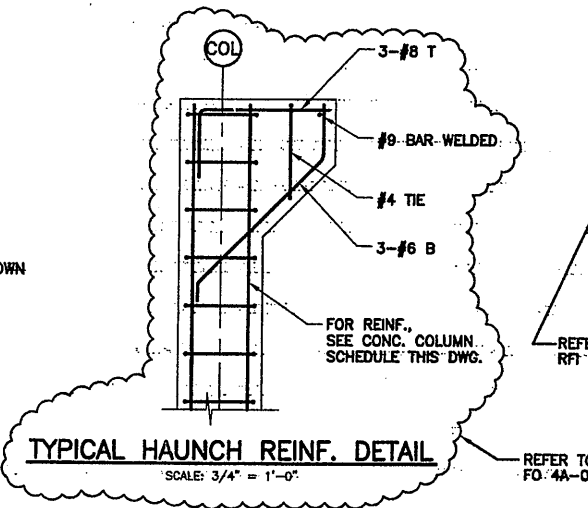
PLAN AT EDGE B
SCALE: 3/4" = 1'-0"



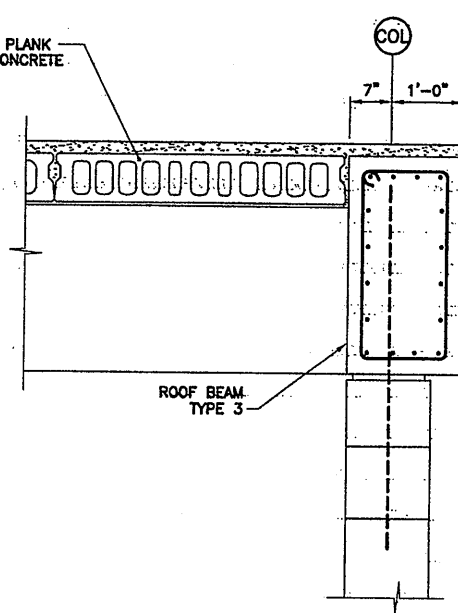
PLAN AT INTERIOR C
SCALE: 3/4" = 1'-0"



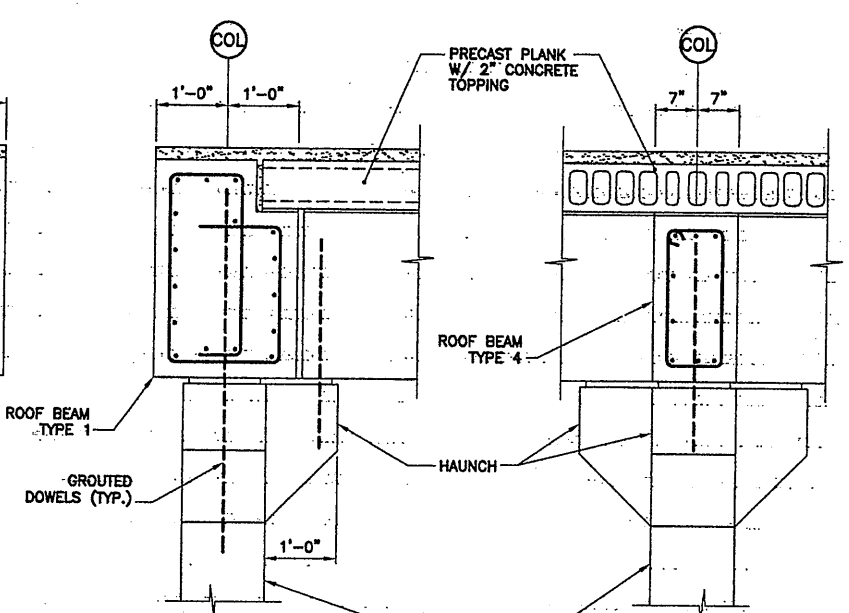
SECTION 1
SCALE: 3/4" = 1'-0"



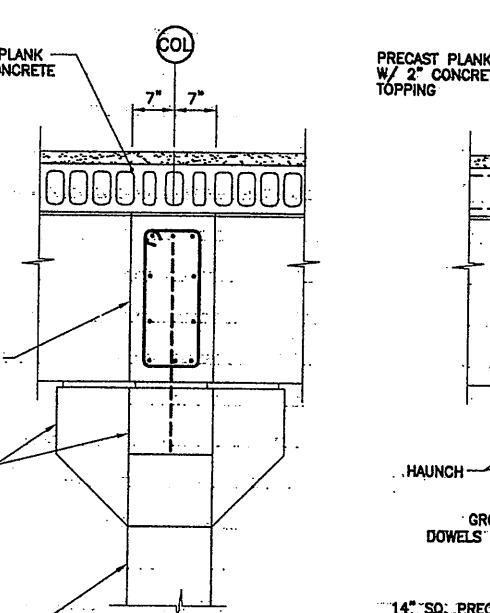
TYPICAL HAUNCH REINF. DETAIL
SCALE: 3/4" = 1'-0"



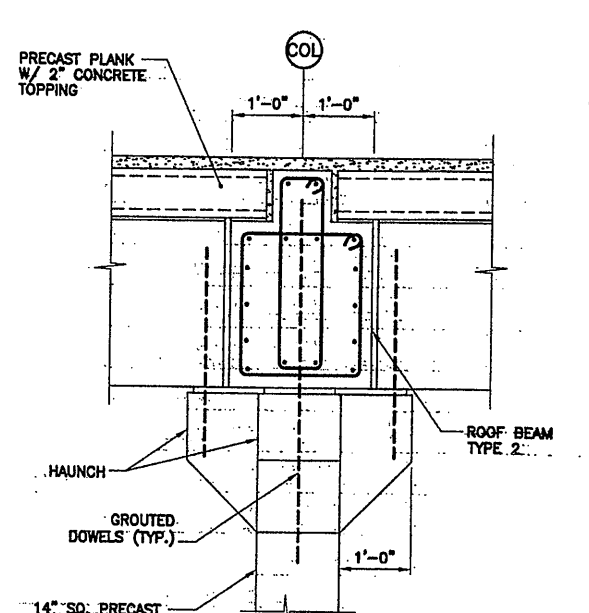
SECTION 2
SCALE: 3/4" = 1'-0"



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



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



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

ROOF BEAM SCHEDULE

SEE DETAILS "A" & "B"
"E" & "F" DIMENSION TOP BAR EA. SIDE OF SUPPORT G.
NOTED IN "FEET" ONLY IF DIFFERENT THAN STANDARD DETAIL.

MARK	SIZE		REINFORCING		STIRRUPS			REMARKS
	WIDTH	DEPTH	B	T	SIZE	SPACING	TYPE	
BAF								
RB-B1	24"	36"	4-#9	3-#7	1	#5	8"	NOTES-1
RB-B2	24"	36"	5-#10	3-#7	2	#5	8"	NOTES-1
RB-B3	19"	36"	4-#7	4-#6	3	#4	8"	NOTES-1
RB-B4	14"	24"	3-#7	3-#6	4	#4	8"	NOTES-1
RB-B5	24"	36"	4-#9	4-#7	1	#5	8"	-
RB-B6	19"	36"	3-#9	3-#7	3	#5	8"	-
RB-B7	24"	60"	10-#10 ³	4-#9	2	#6	8"	-
RB-B8	24"	60"	10-#10 ³	4-#9	1	#6	8"	-

- SCHEDULE NOTES:**
- FOR BEAMS GREATER THAN 18" DEEP ADD #5@12" HORIZ. E.F. REINF. U.O.N.
 - USE TWO ROWS WITH 5-#10 IN EACH ROW.
 - PRECAST PLANKS SHALL BE CONCRETE TO BEAMS WITH DOWELS OR EMBEDDED WELDED PLATE CONNECTORS.

- GENERAL NOTES:**
- THE P/C ROOF PLANKS ARE TO BE MINIMUM THICKNESS IN ACCORDANCE WITH MANUFACTURER'S DESIGN.
 - THE LENGTHS SHALL BE SET BASED ON THE MANUFACTURER'S REQUIRED BEARING. THE WIDTH SHALL BE THE MANUFACTURER'S STANDARD WITH SPECIALS AS REQUIRED.
 - JOINTS SHALL BE GROUTED AND TOPPED IN ACCORDANCE WITH MANUFACTURER'S DESIGNS.
 - ALL ROOF BEAMS AND COLUMNS ARE PRECAST CONCRETE USING MILD STEEL. STANDARD DESIGNS OF P/C MANUFACTURERS OF PRESTRESSED PRECAST CONCRETE PRODUCTS MAY BE USED IN LIEU OF DESIGNS SHOWN.
 - BEARING PADS SHALL BE DESIGNED BY PRECAST MANUFACTURERS.
 - GROUTED DOWELS SHALL BE MINIMUM #9 BARS.

CONC. COLUMN SCHEDULE

COLUMN MARK	REINFORCING	STIRRUPS	REMARKS
Ab1b, Ab2b, Ab3b, Bb1b, Bb1b, Hb1b, Hb2b, Hb3b	Eb4b, Eb5b, Eb6b, Eb7b, Eb8b, Eb12b, Eb13b, Eb18b, Eb19b, Eb22b, Eb23b, Eb24b, Eb25b, Eb26b, Fb4b, Fb5b, Fb6b, Fb7b, Fb8b, Fb12b, Fb13b, Fb18b, Fb19b, Fb22b, Fb23b, Fb24b, Fb25b, Fb26b, Ab8b, Bb8b, Ab22b, Bb22b	-	REFER TO RFI 101-A
T/PLANK & BEAM EL. 382.75'	-	-	REFER TO RFI 101-A
T/CONCRETE EL. 381.30'	-	-	REFER TO RFI 101-A
T/CONCRETE EL. 407.84'	-	-	REFER TO RFI 101-A
T/CONCRETE EL. 398.84'	-	-	REFER TO RFI 101-A
COL SIZE	14" x 14"	14" x 14"	14" x 14"
VERTICAL BARS	8-#8	8-#8	8-#8
STIRRUPS	#4@8"	#4@8"	#4@8"
ANCHORS	(4)-1" DIA.	(4)-1" DIA.	(4)-1" DIA.

RECORD DRAWING

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DATE: 4/21/05 PER: RAE

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07/3/01 OBG RAE
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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
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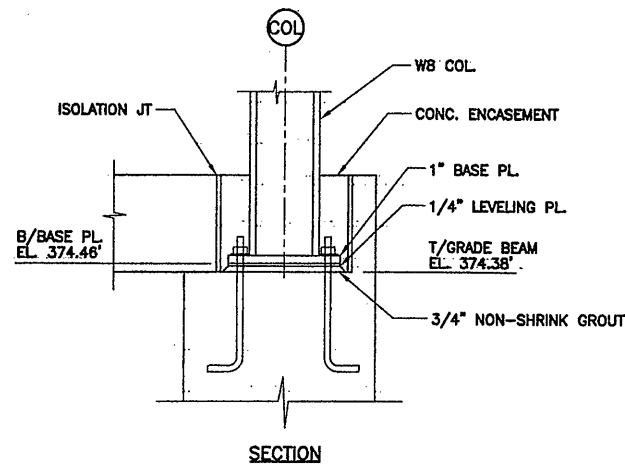
In charge of TWS
Designed by TWS
Drawn by RAE
Checked by CMT

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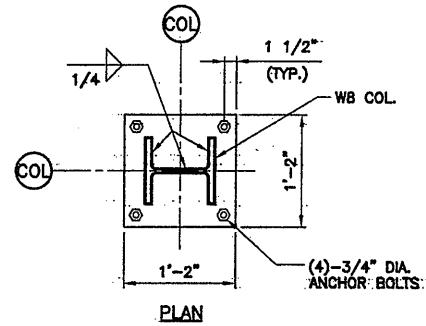
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
BAF
CONC. ROOF BEAMS & CONC. COLUMNS
SECTIONS & DETAILS
STRUCTURAL

File Number: 00659
Date: APRIL 2001
S-234

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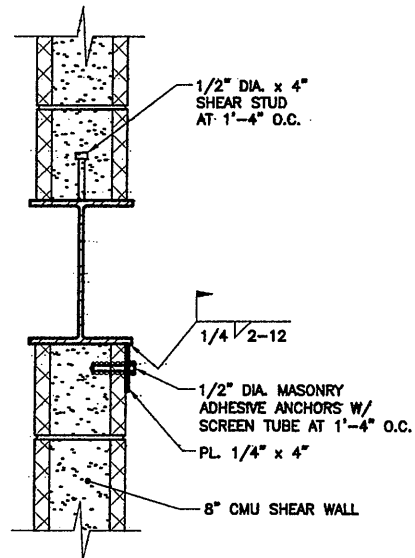
SECTION



PLAN

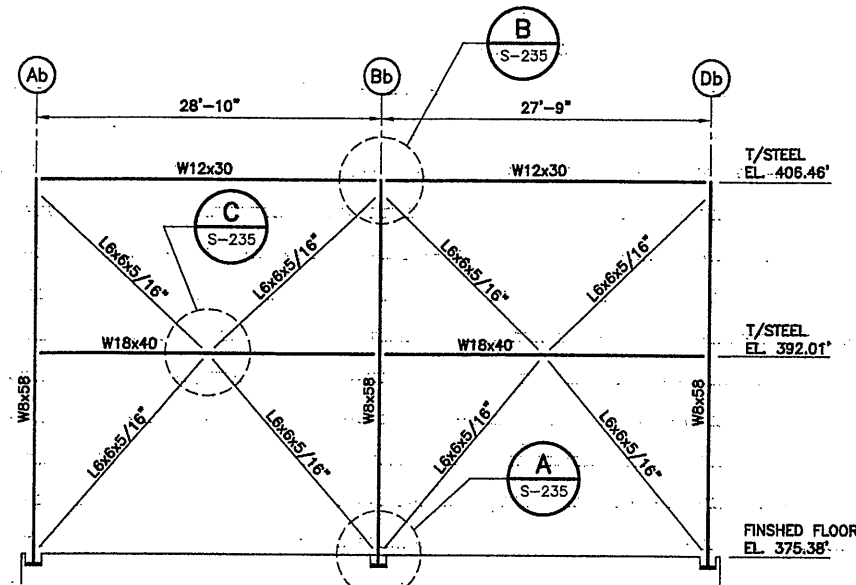
TYPICAL COL. BASE PLATE DETAIL

SCALE: 1"=1'-0"



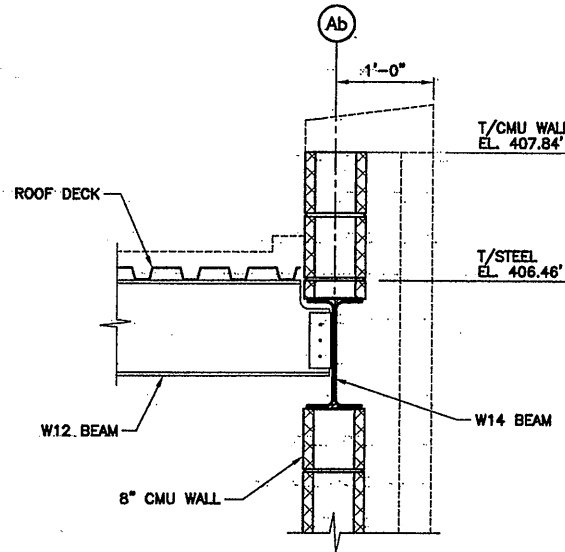
TYPICAL CMU-BEAM SHEAR CONNECTION DETAIL

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



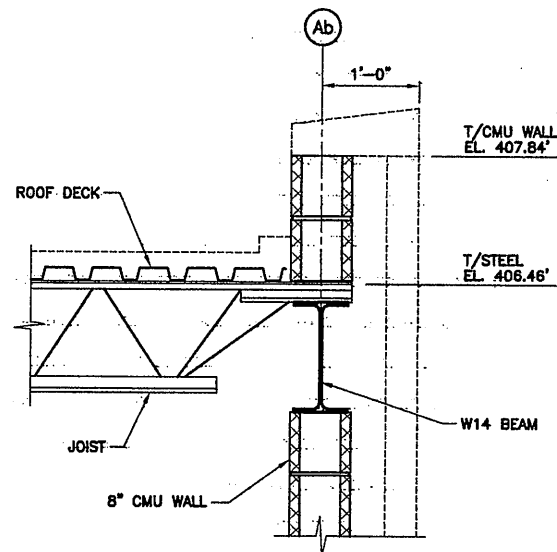
NORTH & SOUTH FRAMING ELEVATIONS (AT COL. 21b & 9b)

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



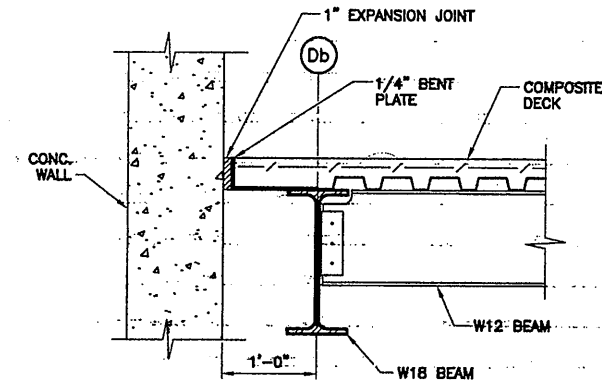
SECTION 1

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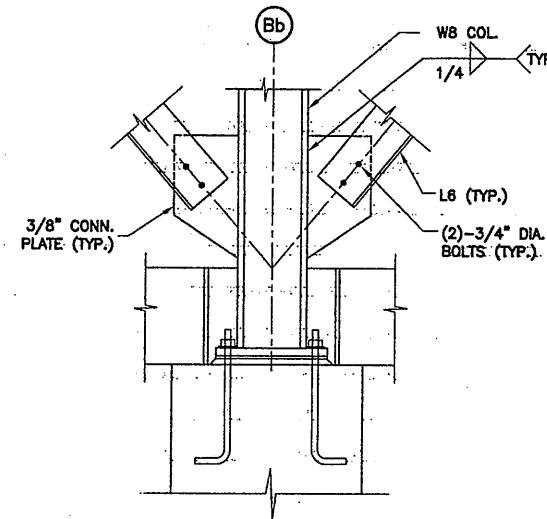
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SCALE: 1"=1'-0"



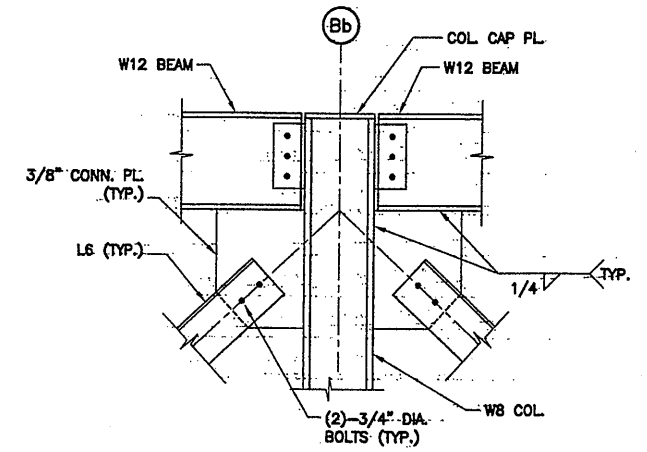
SECTION 3

SCALE: 1"=1'-0"



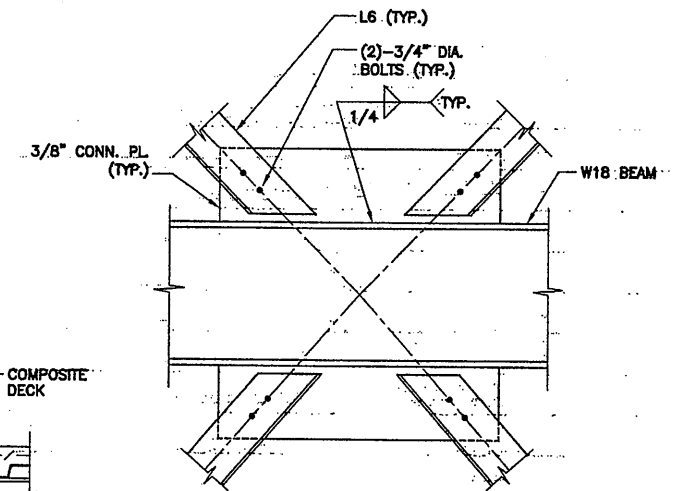
DETAIL A

SCALE: 1"=1'-0"



DETAIL B

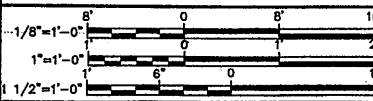
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DETAIL C

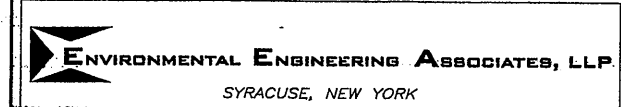
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.0659s235



No.	Date	Revisions	Init
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Designed by	CMT
Drawn by	RAE
Checked by	TWS



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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

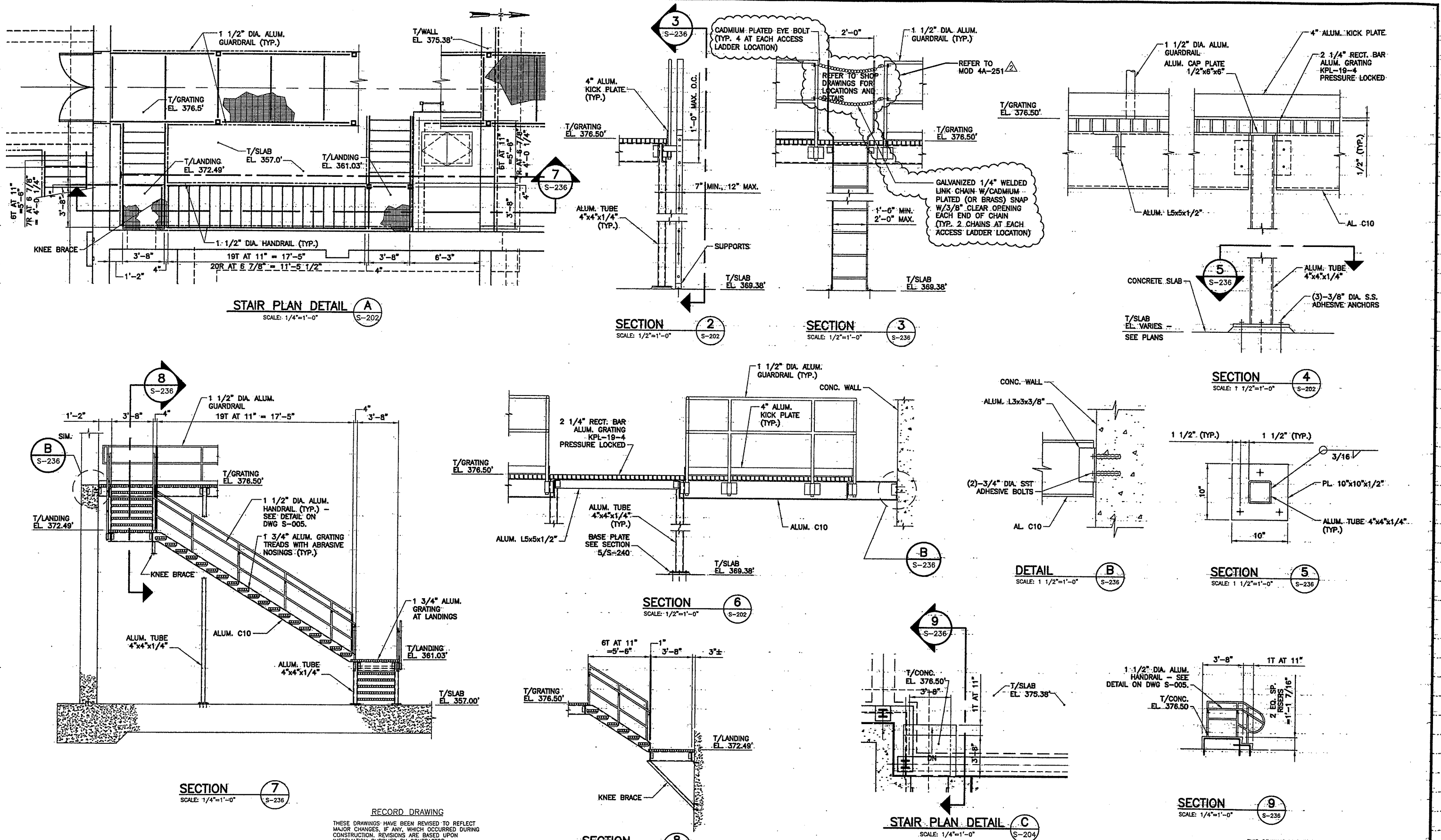
STEEL FRAMING
ELEVATIONS, SECTIONS & DETAILS
STRUCTURAL

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Date	APRIL 2001
Project	S-235

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SYRACUSE, NEW YORK

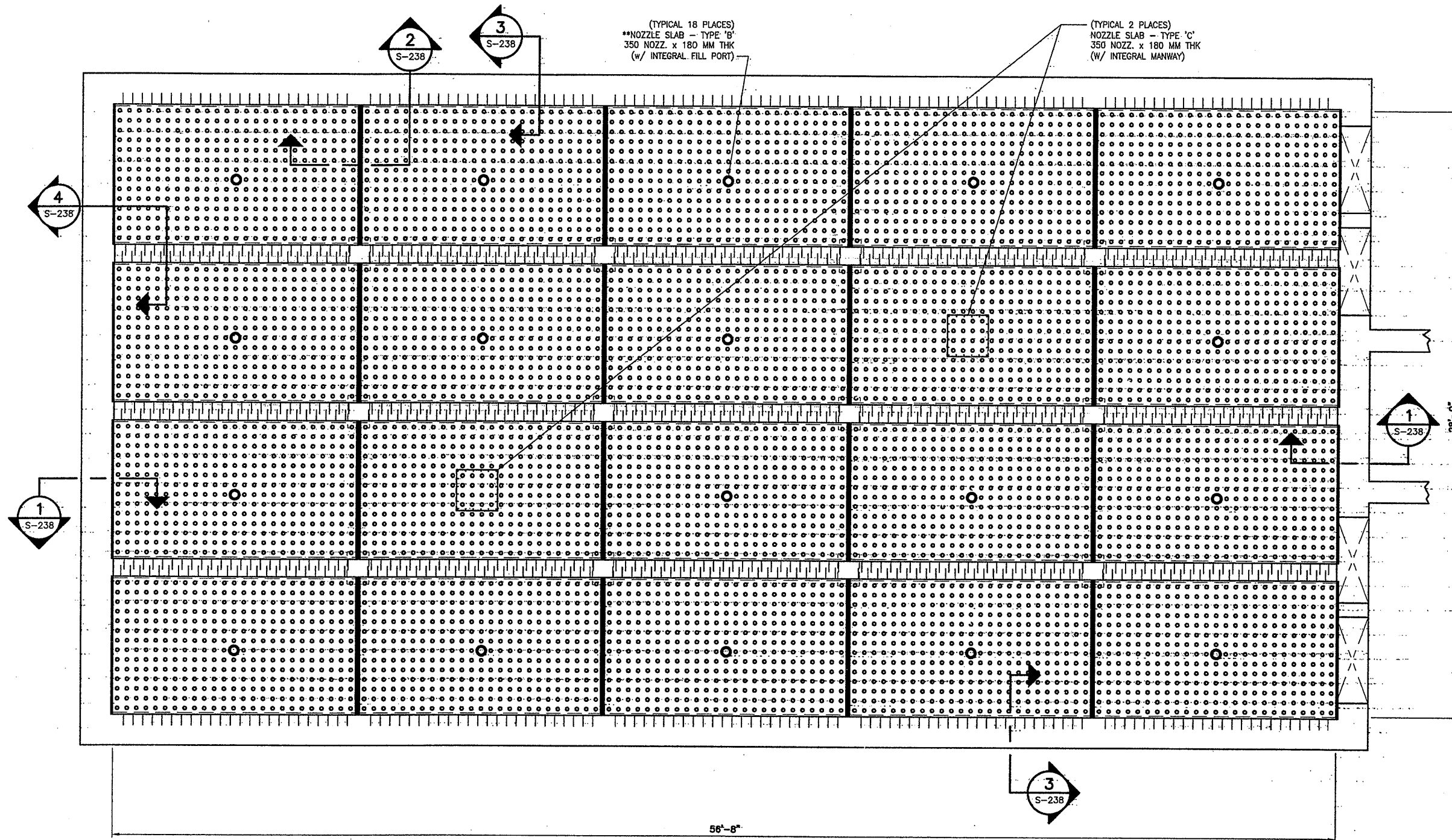
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**BAF GALLERY WALKWAY
SECTIONS AND DETAILS**
STRUCTURAL

STATE OF NEW YORK
THOMAS W. STORIE
LICENSED PROFESSIONAL ENGINEER
052825

File Number: 00659
Date: APRIL 2001
S-236

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

DRAWING NOTE:
DESIGN OF PREFABRICATED NOZZLE
DECK SLABS SHOWN ARE BY KRUGER.

RECORD DRAWING

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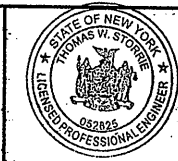


No.	Date	Revisions	Init
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

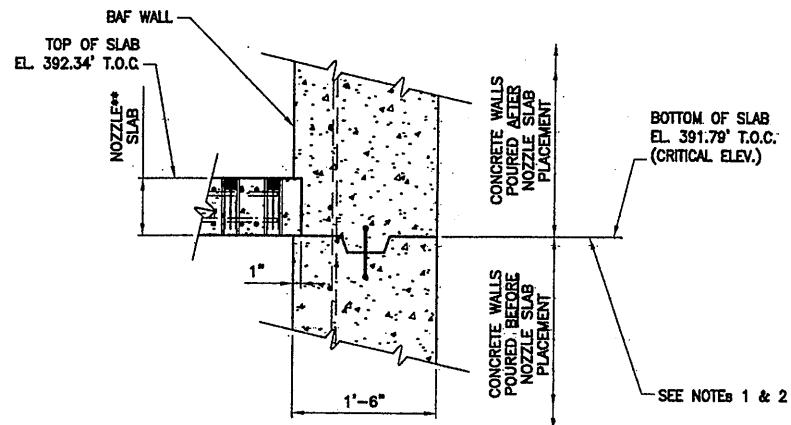


File Number
00659-
Date
JUNE 2001

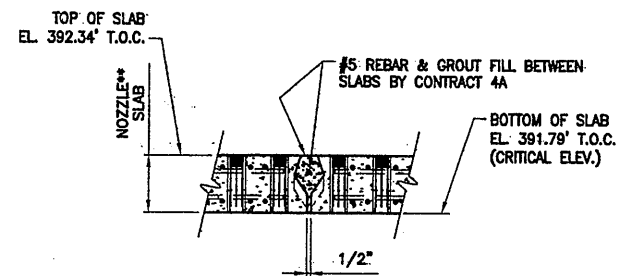
S-237

**TYPICAL BAF
NOZZLE DECK PLAN**
STRUCTURAL

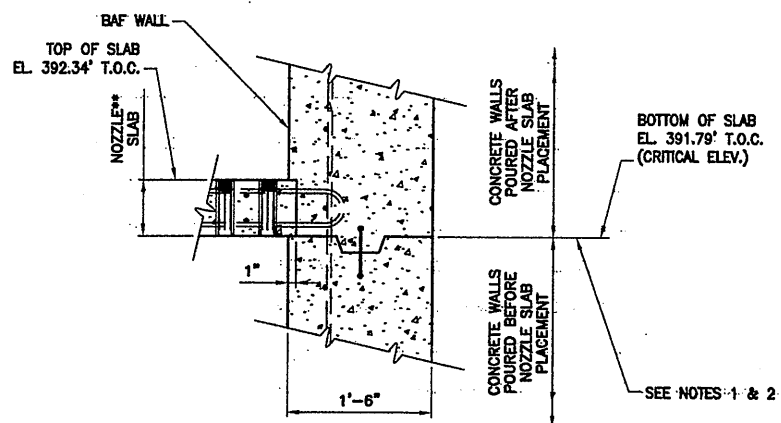
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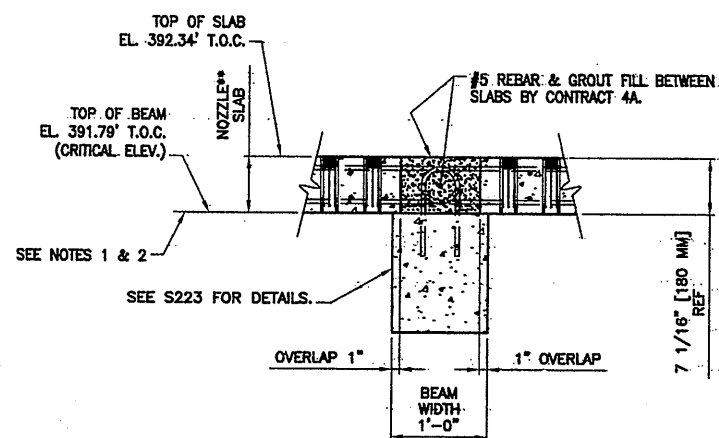
SECTION 1
SCALE: 1"=1'-0"
S-237



SECTION 2
SCALE: 1"=1'-0"
S-237



SECTION 3
SCALE: 1"=1'-0"
S-237



SECTION 4
SCALE: 1"=1'-0"
S-237

SECTION NOTES:

- BOTTOM OF NOZZLE SLABS ELEV. MUST BE MAINTAINED AT 391.79' WITH AN ALLOWABLE FLATNESS TOLERANCE OF (+/-) 1/8" MEASURED ACROSS DIAGONALS.
- TO FACILITATE FINAL LEVELING OF NOZZLE SLABS, IT MAY BE ADVISABLE TO TERMINATE SUPPORTING CONCRETE POURS APPROXIMATELY 3/4" BELOW ELEV. 391.79'.
- GROUT SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 6000 PSI MIN.

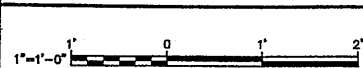
RECORD DRAWING

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06/22/01 OBG RAE
0659S238



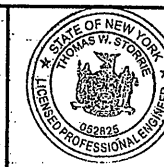
No.	Date	Revisions	Init
0		AS BID	
1	10/31/05	RECORD DRAWING	RCG

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Designed by CMT
Drawn by RAE
Checked by TWS



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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

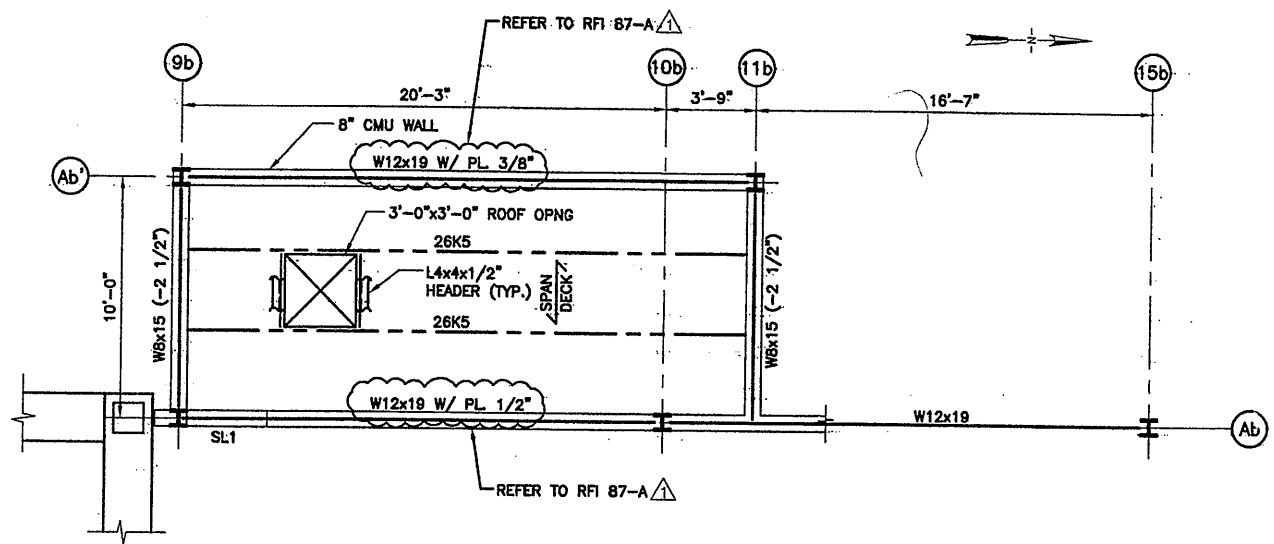
TYPICAL BAF
NOZZLE DECK SECTIONS
STRUCTURAL



File Number
00659

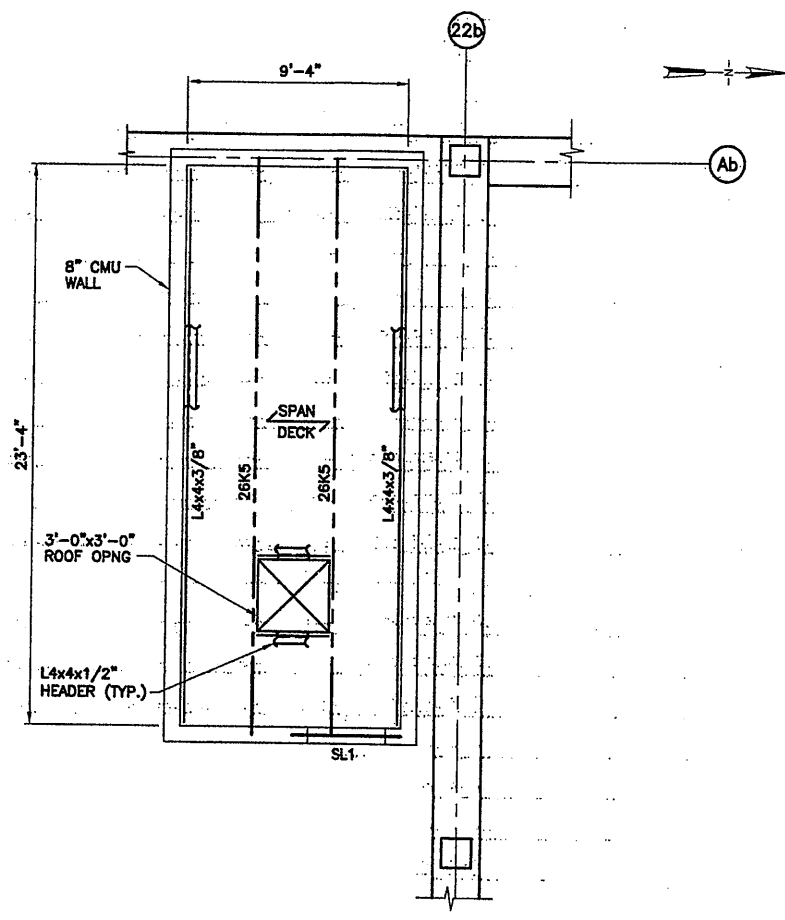
Date
JUNE 2001

S-238



ROOF FRAMING PLAN AT STAIRWELL NO. 1 (A)
 SCALE: 1/4"=1'-0"

- PLAN NOTES:**
1. T/JOIST EL. 402.10 U.O.N.
 2. 1 1/2", TYPE B, 20 GA. GALVANIZED ROOF DECK
 3. ROOF CONSTRUCTION IS BUILT-UP ROOF SYSTEM. SEE ARCH. DWGS FOR DETAILS.
 4. STEEL LINTELS DESIGNATED AS SL# - SEE ARCH. DWGS FOR LOCATION & LINTEL SCHEDULE ON DWG S-004 FOR SIZE.



ROOF FRAMING PLAN AT STAIRWELL NO. 2 (B)
 SCALE: 1/4"=1'-0"

- PLAN NOTES:**
1. T/JOIST EL. 417.60 U.O.N.
 2. 1 1/2", TYPE B, 20 GA. GALVANIZED ROOF DECK
 3. ROOF CONSTRUCTION IS BUILT-UP ROOF SYSTEM. SEE ARCH. DWGS FOR DETAILS.
 4. STEEL LINTELS DESIGNATED AS SL# - SEE ARCH. DWGS FOR LOCATION & LINTEL SCHEDULE ON DWG S-004 FOR SIZE.

07/3/01 OBG RAE
 0659s239

No.	Date	Revisions	Init
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1	10/31/05	RECORD DRAWING	RCG

In-charge of: TWS
 Designed by: CMT
 Drawn by: RAE
 Checked by: TWS



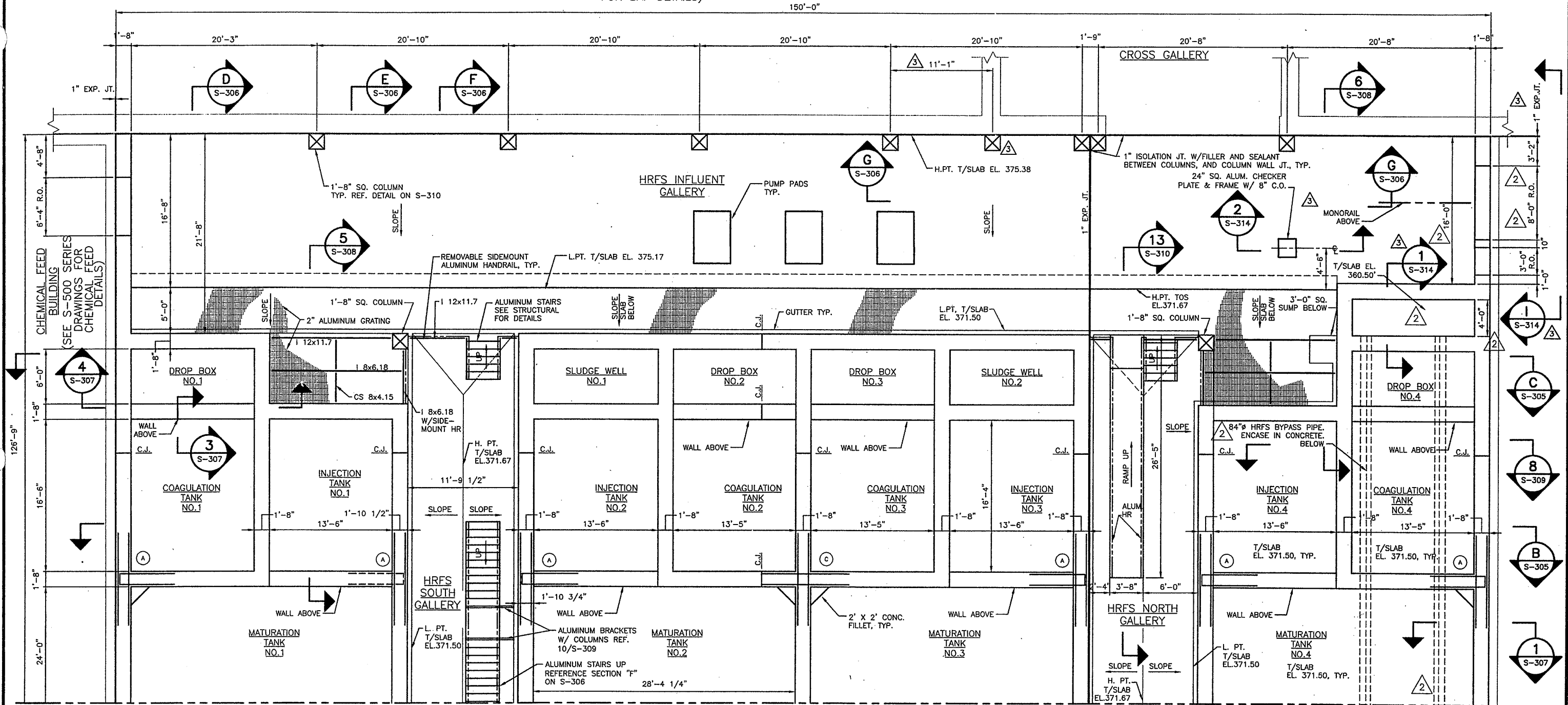
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

STAIRWELL NO. 1 & 2
ROOF FRAMING PLANS
 STRUCTURAL



RECORD DRAWING
 THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
 DATE: 12/2/05 PER: [Signature]
 THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.
 File Number: 00659
 Date: JUNE 2001
 S-239

BAF
STRUCTURE
(SEE S-200 SERIES DRAWINGS
FOR BAF DETAILS)



MATCHLINE - SEE SHEET S-302

PARTIAL LOWER PLAN
SCALE: 3/16" = 1'-0"

NOTE:
CONTRACTOR COORDINATE DIMENSIONS AND LOCATIONS OF ALL
PUMP PADS W/ MANUFACTURERS SHOP DRAWINGS.

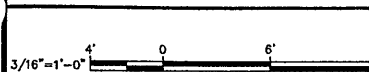
C.J. = CONTROL JOINT

RECORD DRAWING

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MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING
CONSTRUCTION. REVISIONS ARE BASED UPON
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DATE: 11/23/05 PER: GCH

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TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE
INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS.
USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO
DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

Layer: ON=*, OFF=*REF*
1
09/21/00 CAZ MJL
EEA-VERT



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	GCH
1	6/26/01	AS BID	GCH
2	9/24/01	ADDENDUM No. 3	
3	5/22/03	REVISED FOR MODIFICATION 4A-164	GCH
4	05/05	FOR RECORD	

In charge of - DMH
Designed by - CMK
Drawn by - MJL
Checked by - MEL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

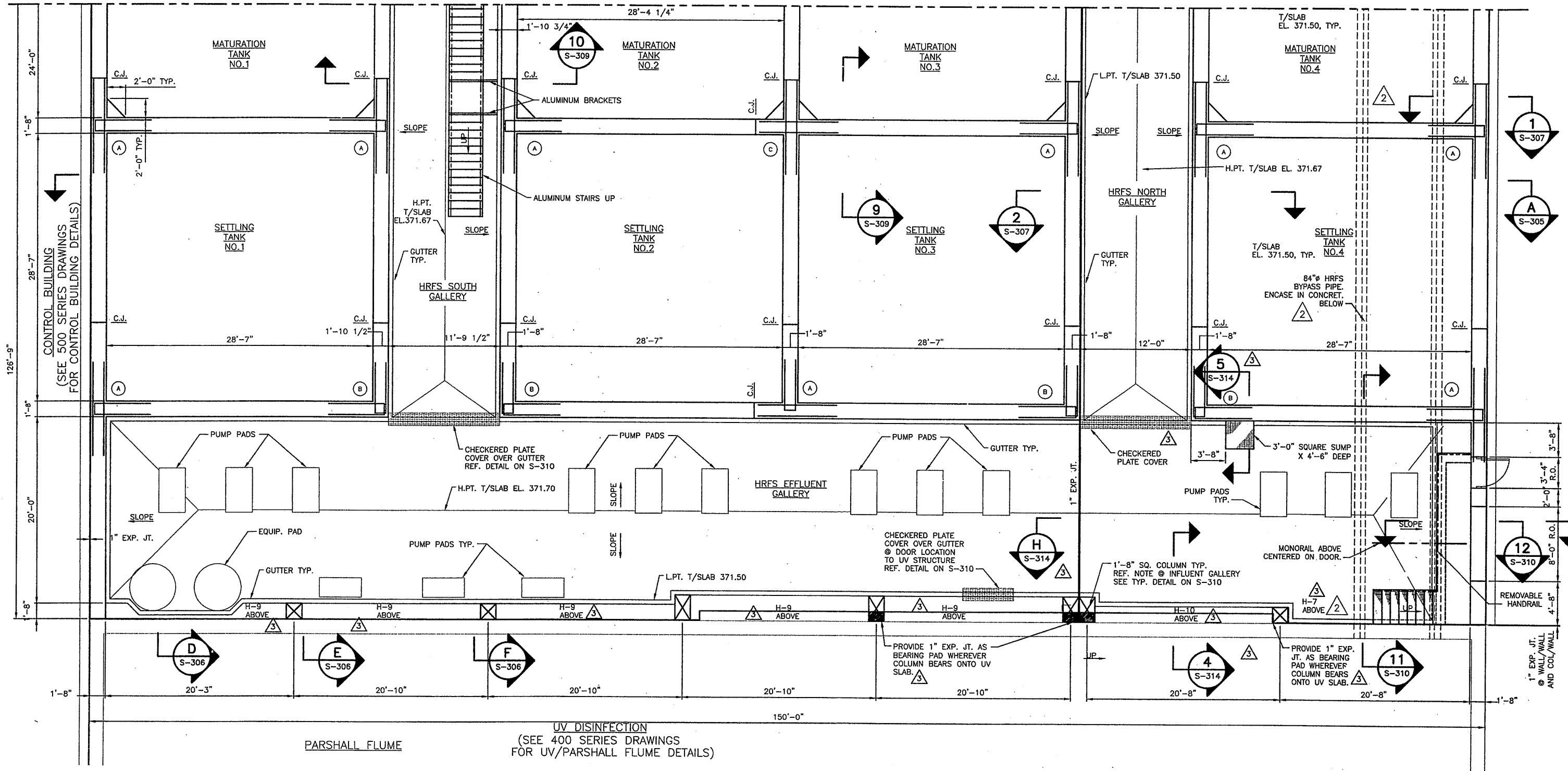
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX
PARTIAL LOWER PLAN

File Number
00659
Date
APRIL 2001
S-301

Professional Engineer
Gerald C. Hock

STRUCTURAL

MATCHLINE - SEE SHEET S-301



PARTIAL LOWER PLAN
SCALE: 3/16" = 1'-0"

RECORD DRAWING

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C.J. = CONTROL JOINT

Layer: ON=*; OFF=*REF*
09/21/00 CAZ M.J.
EEA-VERT

3/16" = 1'-0"	
No.	Date
0	4/20/01
1	6/28/01
2	9/24/01
3	5/22/03
4	05/05

No.	Date	Revisions	Init
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4	05/05	FOR RECORD	

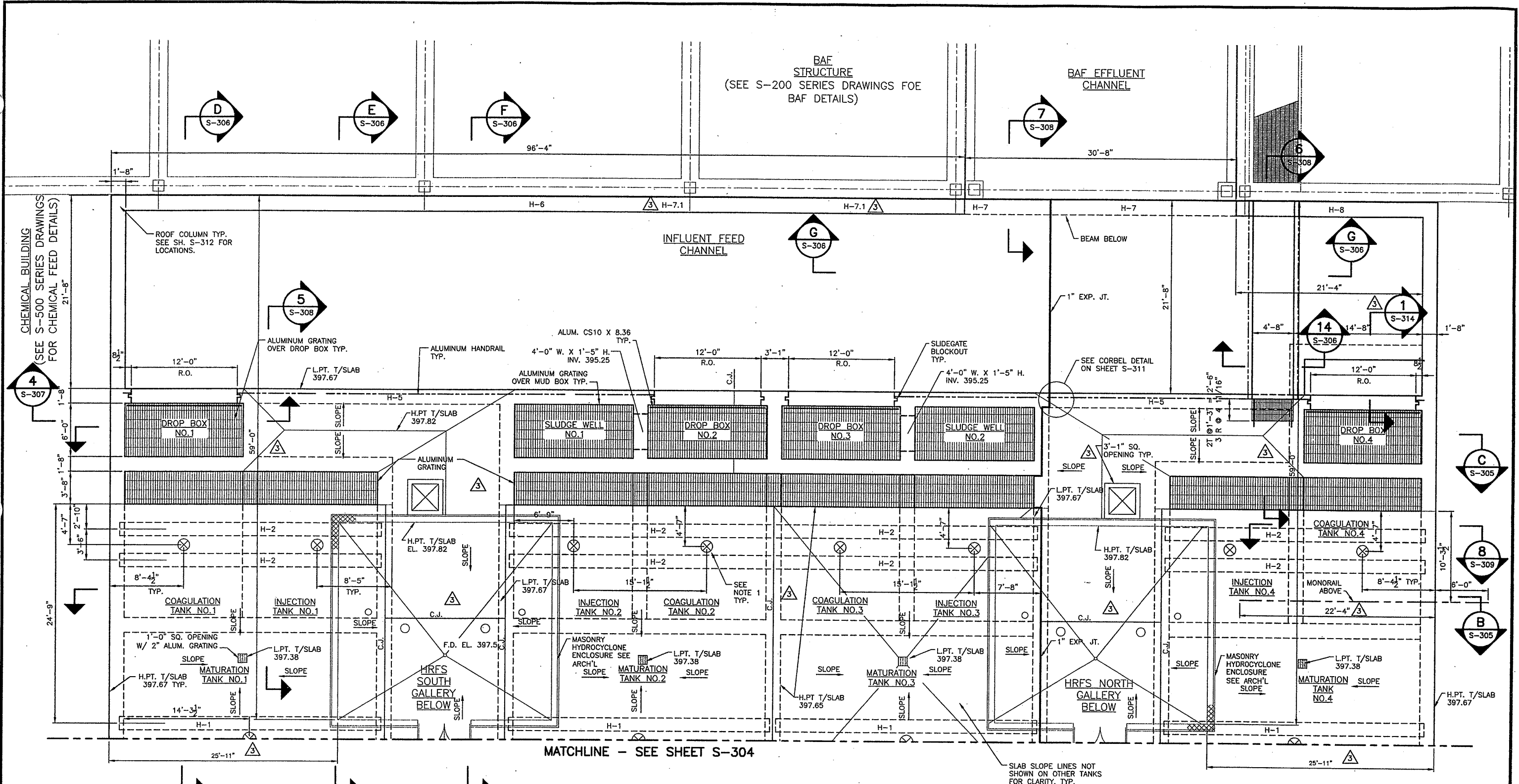
In charge of	DMH
Designed by	CMK
Drawn by	MJL
Checked by	MEL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX
PARTIAL LOWER PLAN
STRUCTURAL

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File Number: 00659
Date: APRIL 2001
S-302



PARTIAL UPPER PLAN
SCALE: 3/16" = 1'-0"

- NOTES:**
- CONTRACTOR TO COORDINATE ALL SLAB PENETRATION SIZES W/EQUIPMENT MFR.
 - C.J. = CONTROL JOINT

RECORD DRAWING

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09/21/00 CAZ MJL
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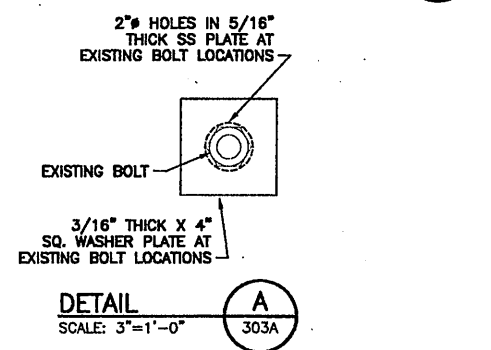
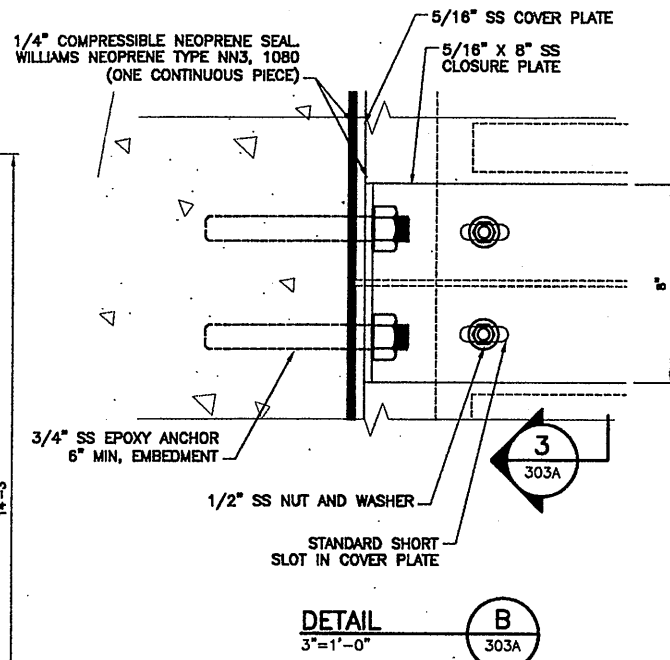
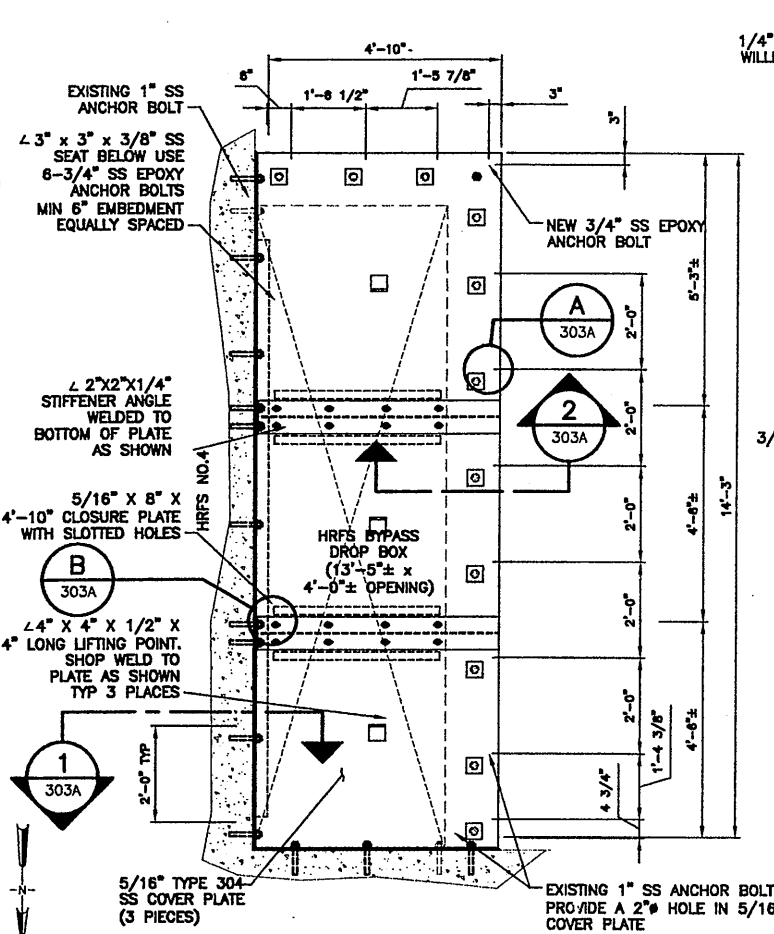
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4	05/05	FOR RECORD	

In charge of — DMH
Designed by — CMK
Drawn by — MJL
Checked by — MEL

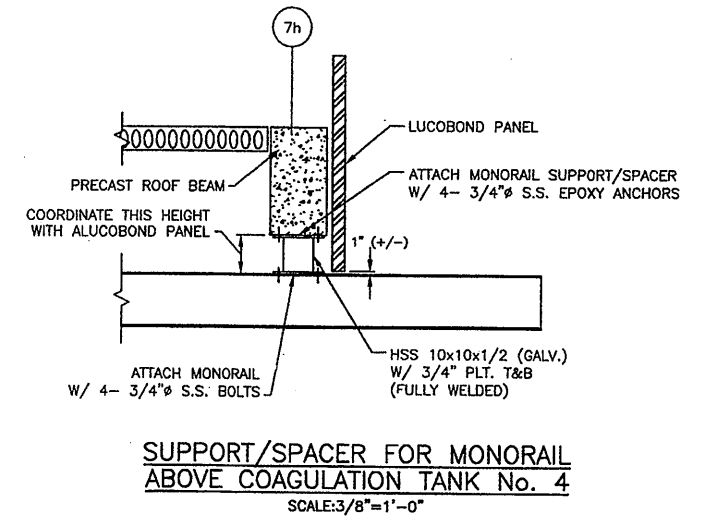
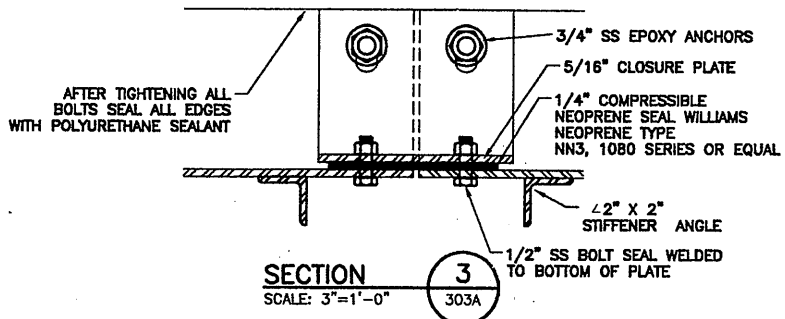
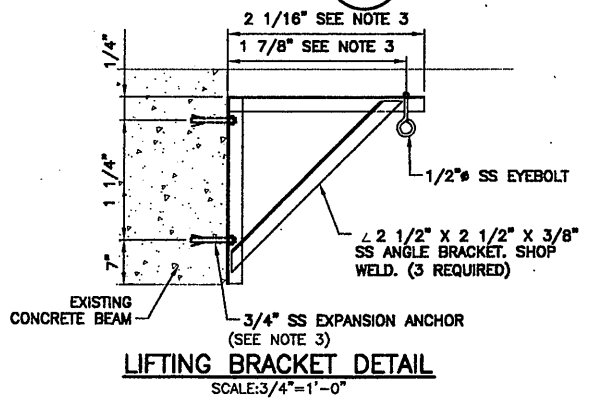
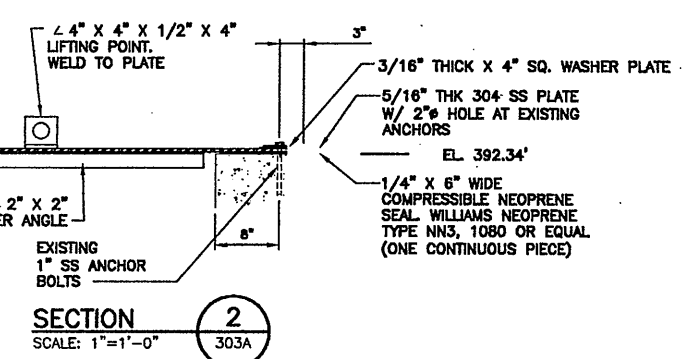
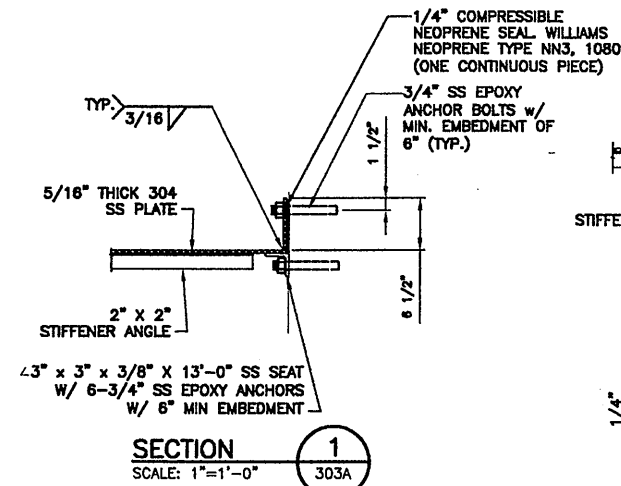
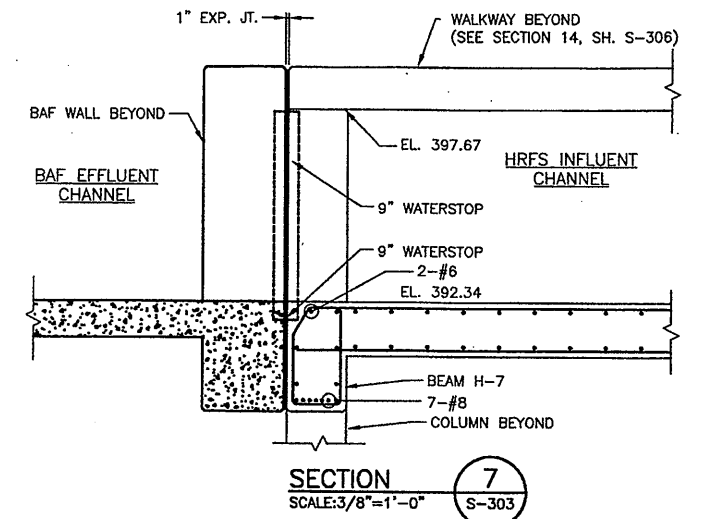
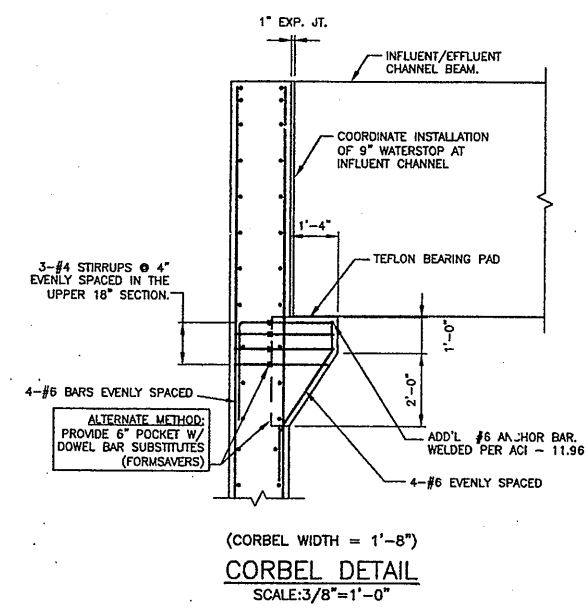
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX
PARTIAL UPPER PLAN
STRUCTURAL

File Number
00659
Date
APRIL 2001
S-303



- NOTES:
1. ALL MATERIAL SHALL BE PRE-FABRICATED AND ON-SITE PRIOR TO DEWATERING OF CHANNEL.
 2. CONTRACTOR SHALL HAVE ALL NECESSARY EQUIPMENT ON-SITE AND READILY AVAILABLE IN CASE MODIFICATIONS TO THE COVER PLATE ARE REQUIRED.
 3. INSTALL LIFTING BRACKETS TO THE CONCRETE ROOF BEAM ABOVE THE OPENING, ONE BRACKET SHALL BE INSTALLED DIRECTLY ABOVE EACH LIFTING POINT IN THE COVER FIELD. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION.



Layer: ON=*, OFF=*REF*
 09/21/00 CAZ MJL
 EEA-VERT

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0	4/20/01	ISSUED FOR APPROVAL	
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In charge of... DMH
 Designed by... CMK
 Drawn by... MJL
 Checked by... MEL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX
PARTIAL UPPER PLAN

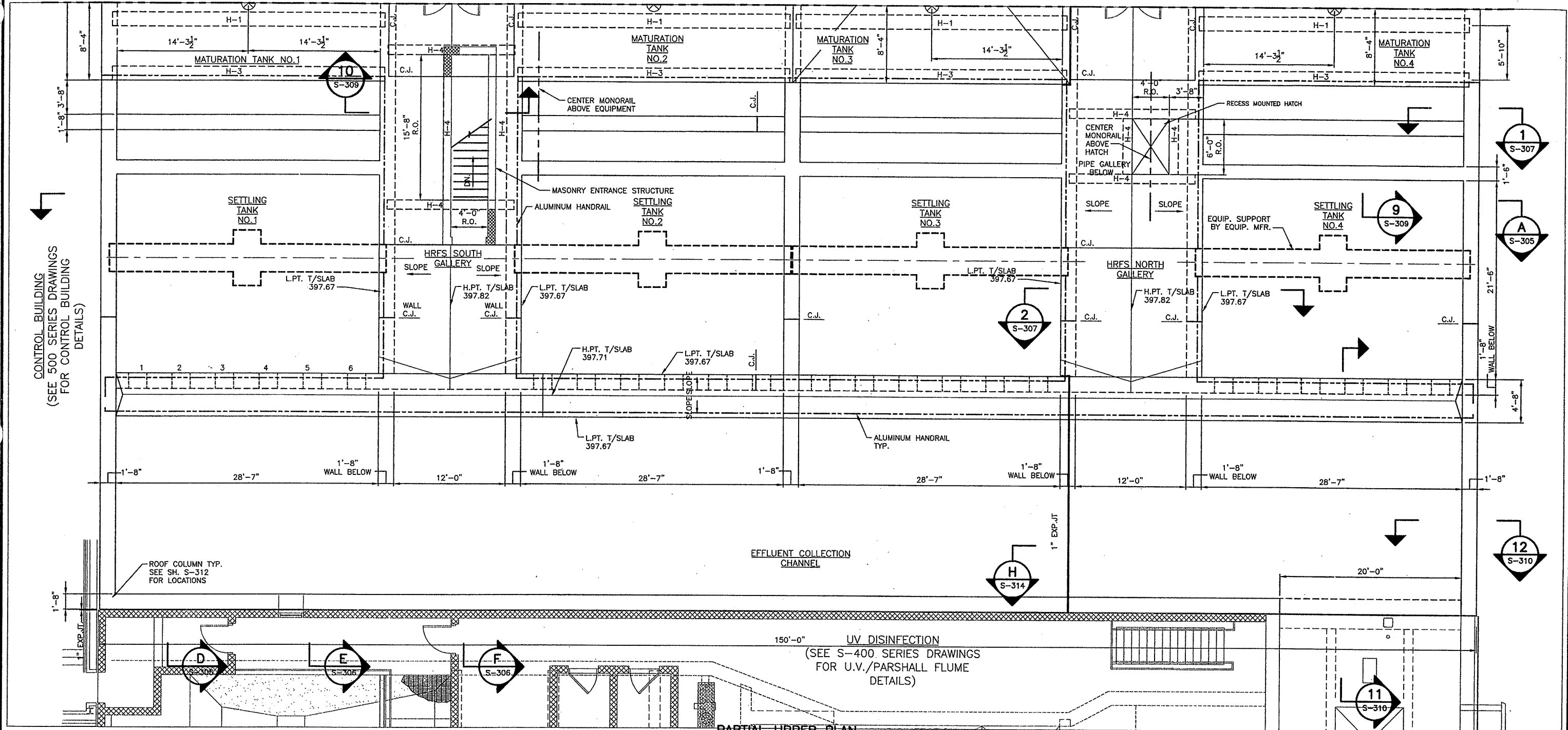
RECORD DRAWING
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File Number: 00659
 Date: APRIL 2001
S-303A

STRUCTURAL

MATCHLINE - SEE SHEET S-303



PARTIAL UPPER PLAN
SCALE: 3/16" = 1'-0"

RECORD DRAWING

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2	05/05	FOR RECORD	

In charge of - DMH
Designed by - CMK
Drawn by - MJL
Checked by - MEL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

HRFS COMPLEX
PARTIAL UPPER PLAN

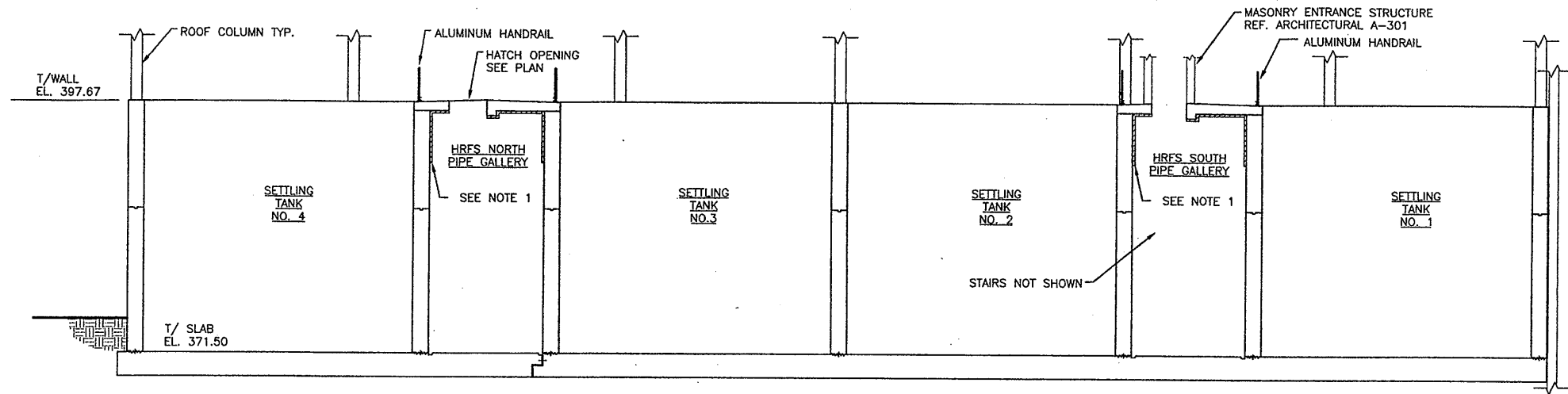
STRUCTURAL



File Number
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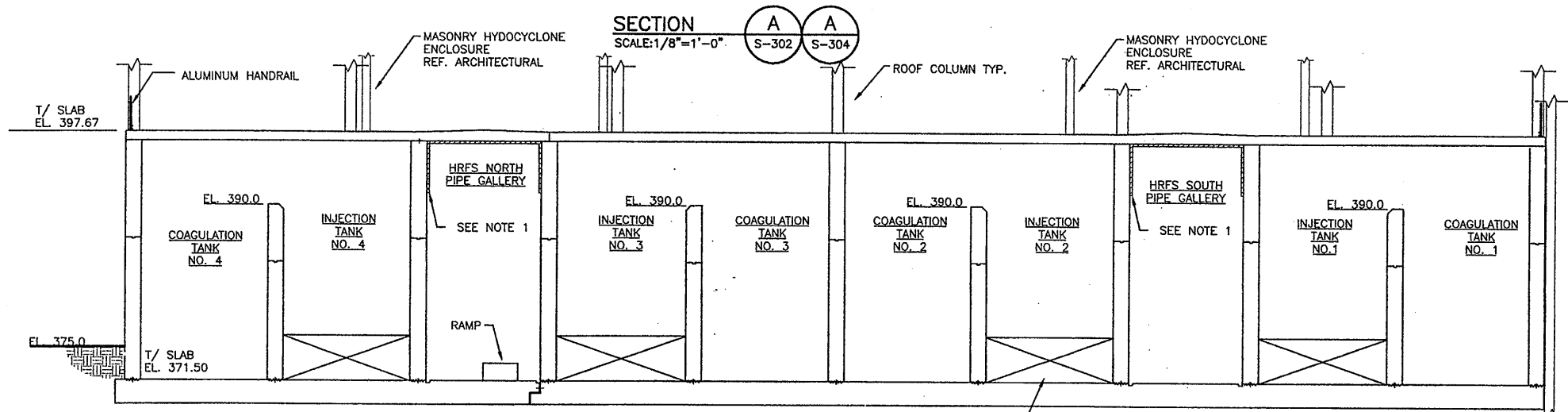
Date
APRIL 2001

S-304

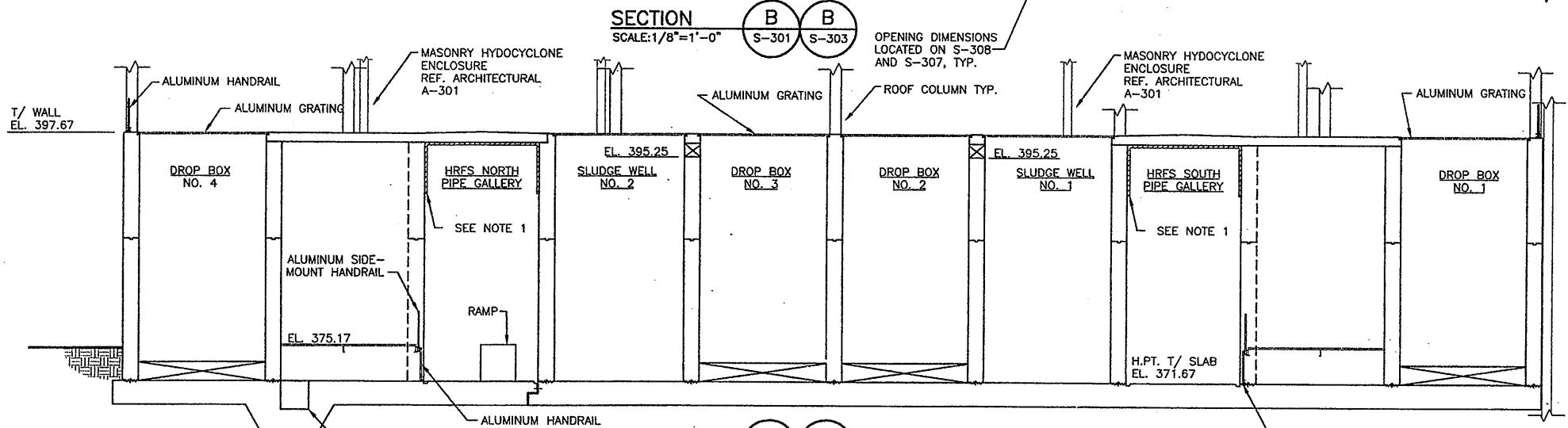


- NOTES:
1. SPRAY ON INSULATION FROM ELEVATION 391.34 TO TOP OF HRFS NORTH AND SOUTH GALLERIES.
 2. INSULATION SHOWN ON THIS SHEET IS NOT DETAILED ON OTHER DRAWINGS. SEE SPECIFICATIONS.
 3. NOT ALL WATERSTOPS ARE INDICATED.

OPERATIONS CENTER



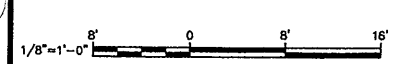
OPERATIONS CENTER



OPERATIONS CENTER

THESE SECTIONS ARE FOR GENERAL CONFIGURATION REFERENCE. DETAILS ARE SHOWN ELSEWHERE.

Layer: ON=*; OFF=*REF*
1
09/21/00 CAZ MJL
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In charge of — DMH
Designed by — CMK
Drawn by — MJL
Checked by — MEL



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

HRFS COMPLEX SECTIONS

STRUCTURAL



File Number
00659

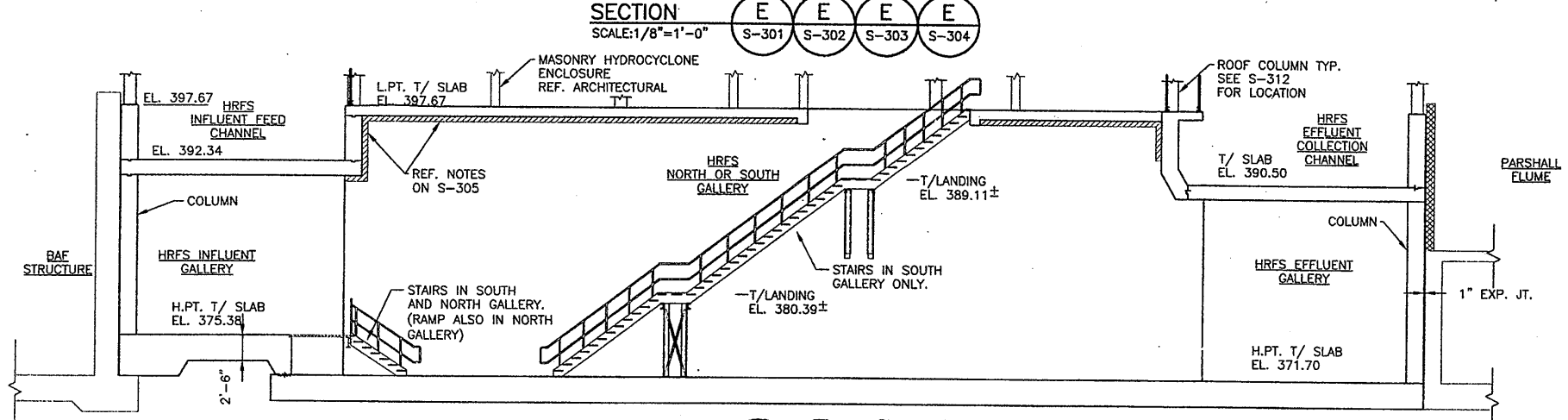
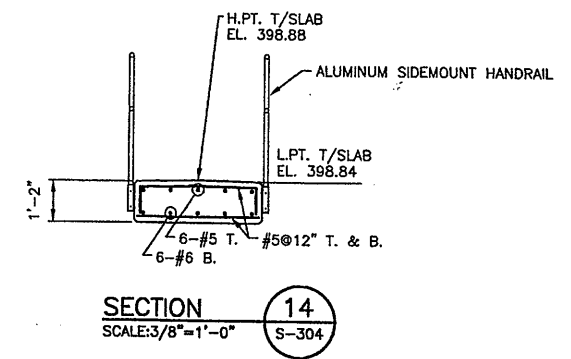
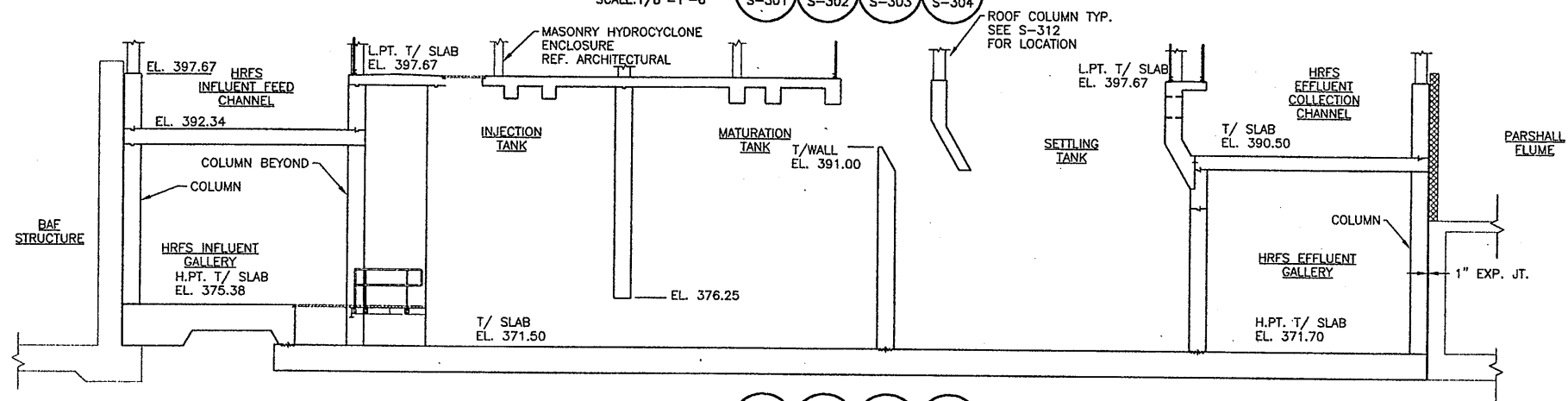
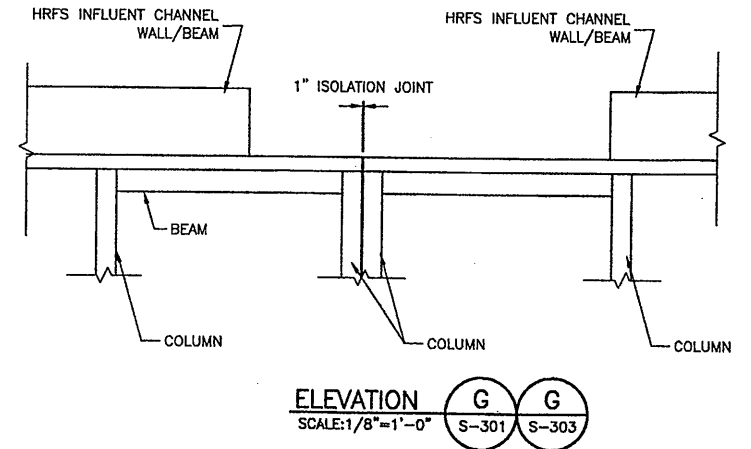
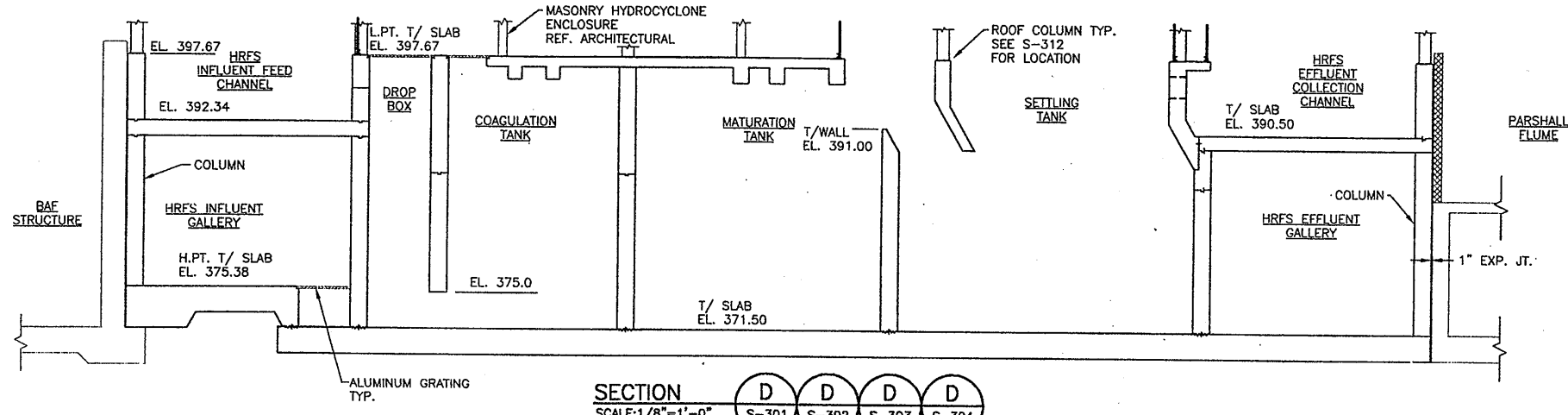
Date
APRIL 2001

S-305

Gerald C. Root

RECORD DRAWING
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DATE: 4/23/05 PER: GCH

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Layer: ON=; OFF=REF*
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In charge of DMH
 Designed by CMK
 Drawn by MJL
 Checked by MEL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
 SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX SECTIONS AND DETAILS
 STRUCTURAL

STATE OF NEW YORK
 LICENSED PROFESSIONAL ENGINEER
 No. 57504

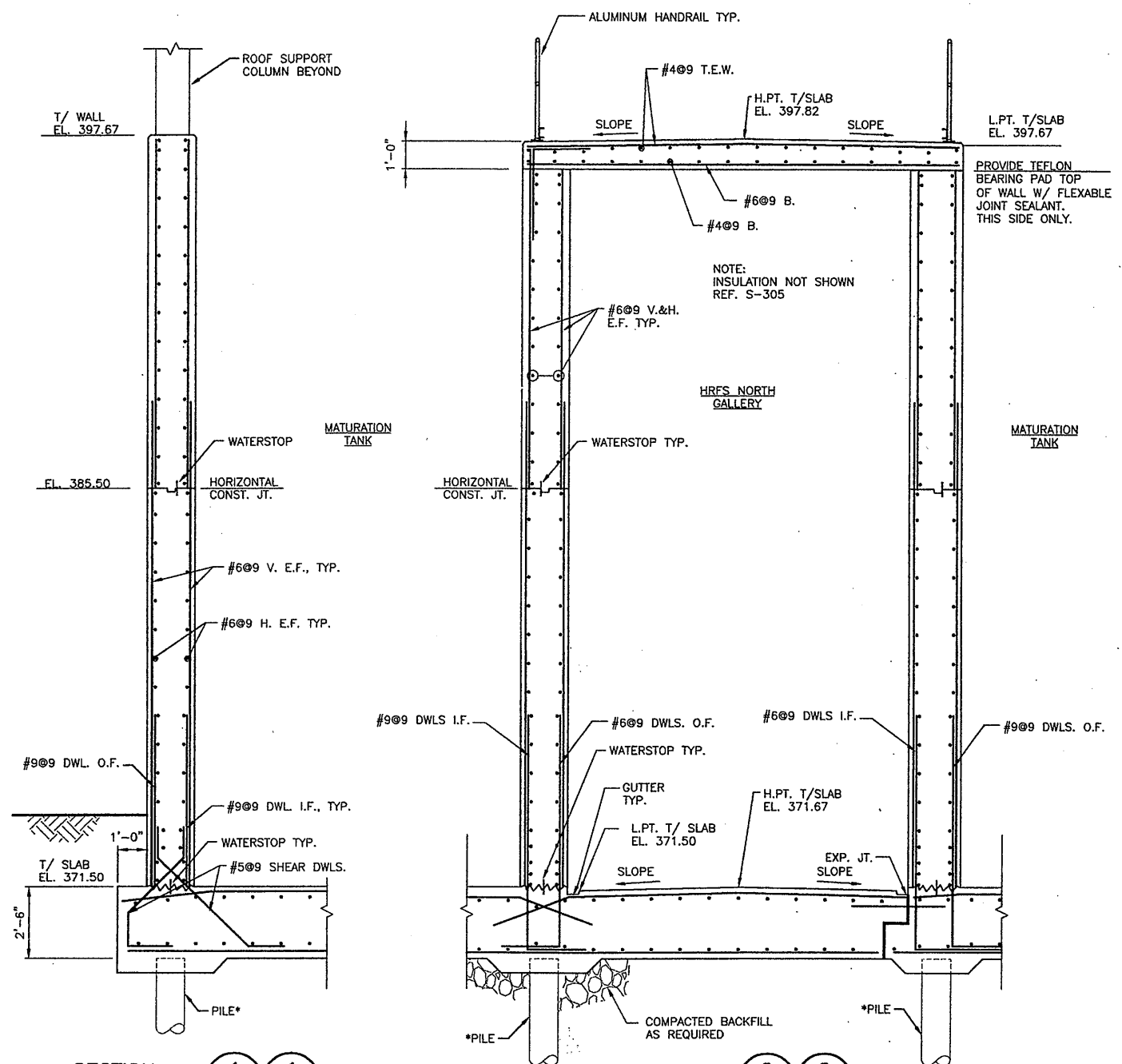
File Number
 00659

Date
 APRIL 2001

S-306

RECORD DRAWING
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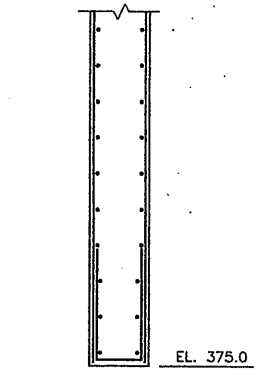
PROVIDE TEFELON BEARING PAD TOP OF WALL W/ FLEXIBLE JOINT SEALANT. THIS SIDE ONLY.

NOTE: INSULATION NOT SHOWN REF. S-305

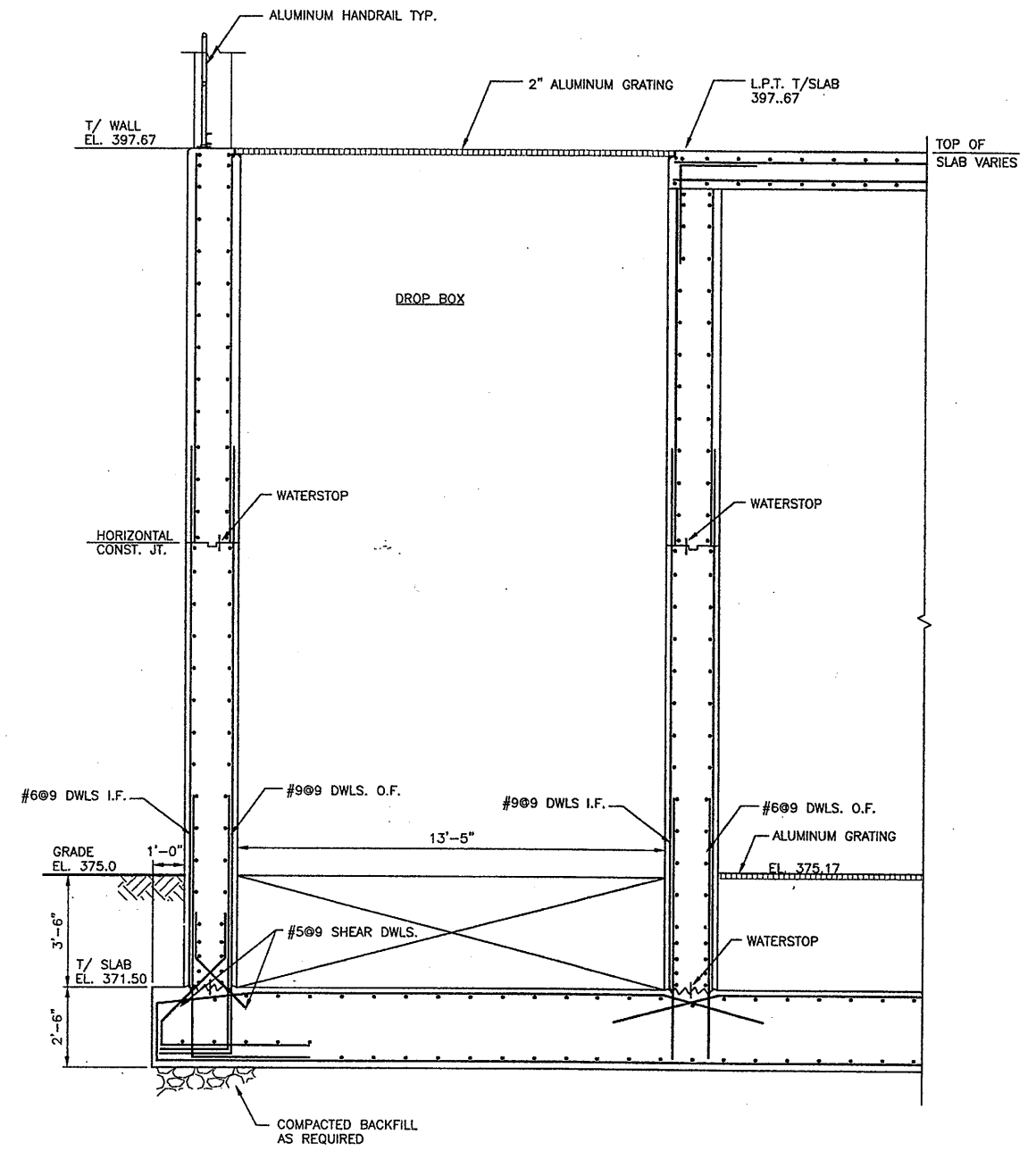
SECTION 1 1
SCALE: 3/8"=1'-0"
S-302 S-304

SECTION 2 2
SCALE: 3/8"=1'-0"
S-302 S-304

NOTE:
* 1. PILES INSTALLED UNDER CONTRACT C3
2. SEE SH. S-312 FOR ROOF SUPPORT COLUMN LOCATIONS.



SECTION 3
SCALE: 3/8"=1'-0"
S-301



SECTION 4 4
SCALE: 3/8"=1'-0"
S-301 S-303

RECORD DRAWING
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09/21/00 CAZ MJL
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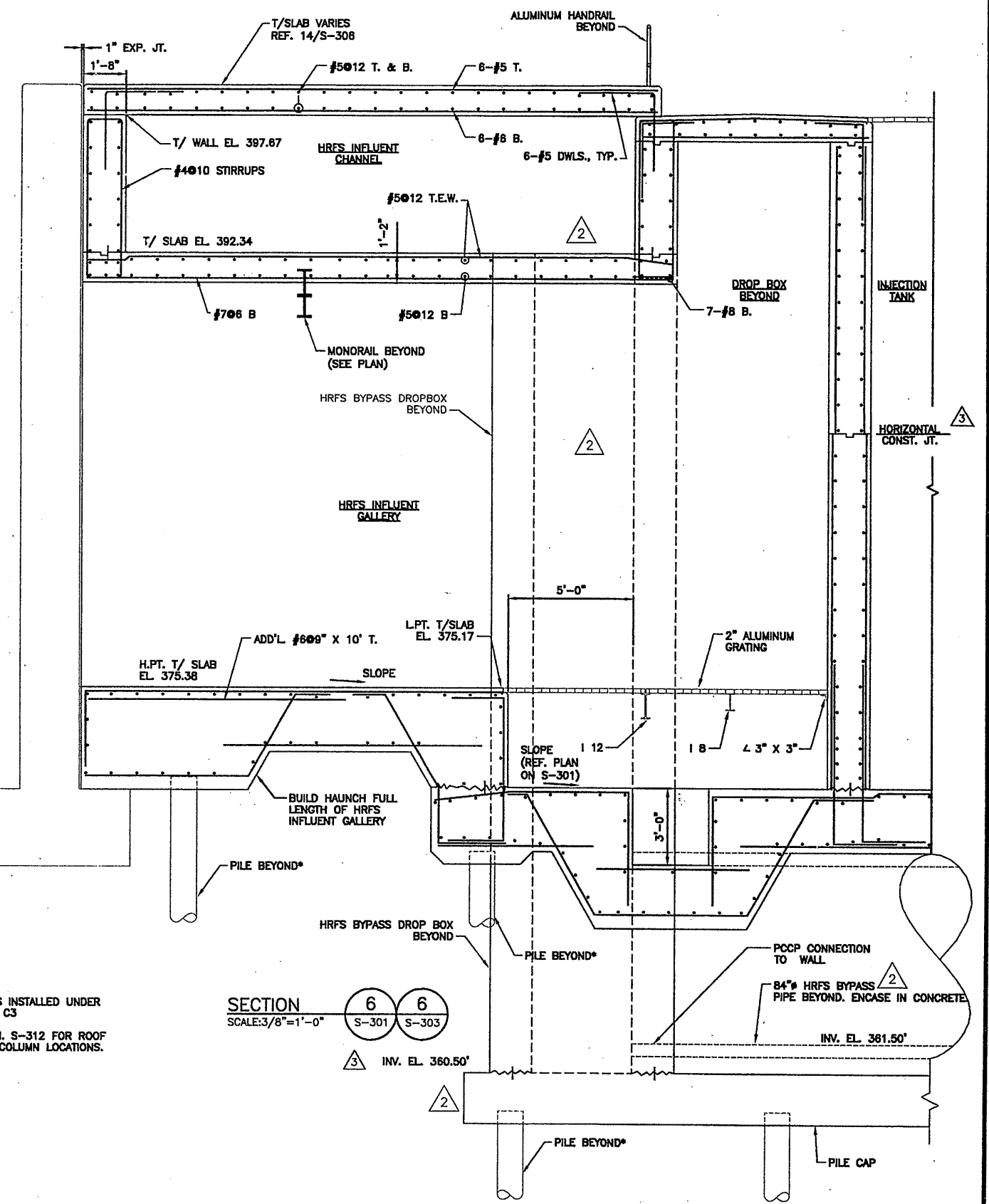
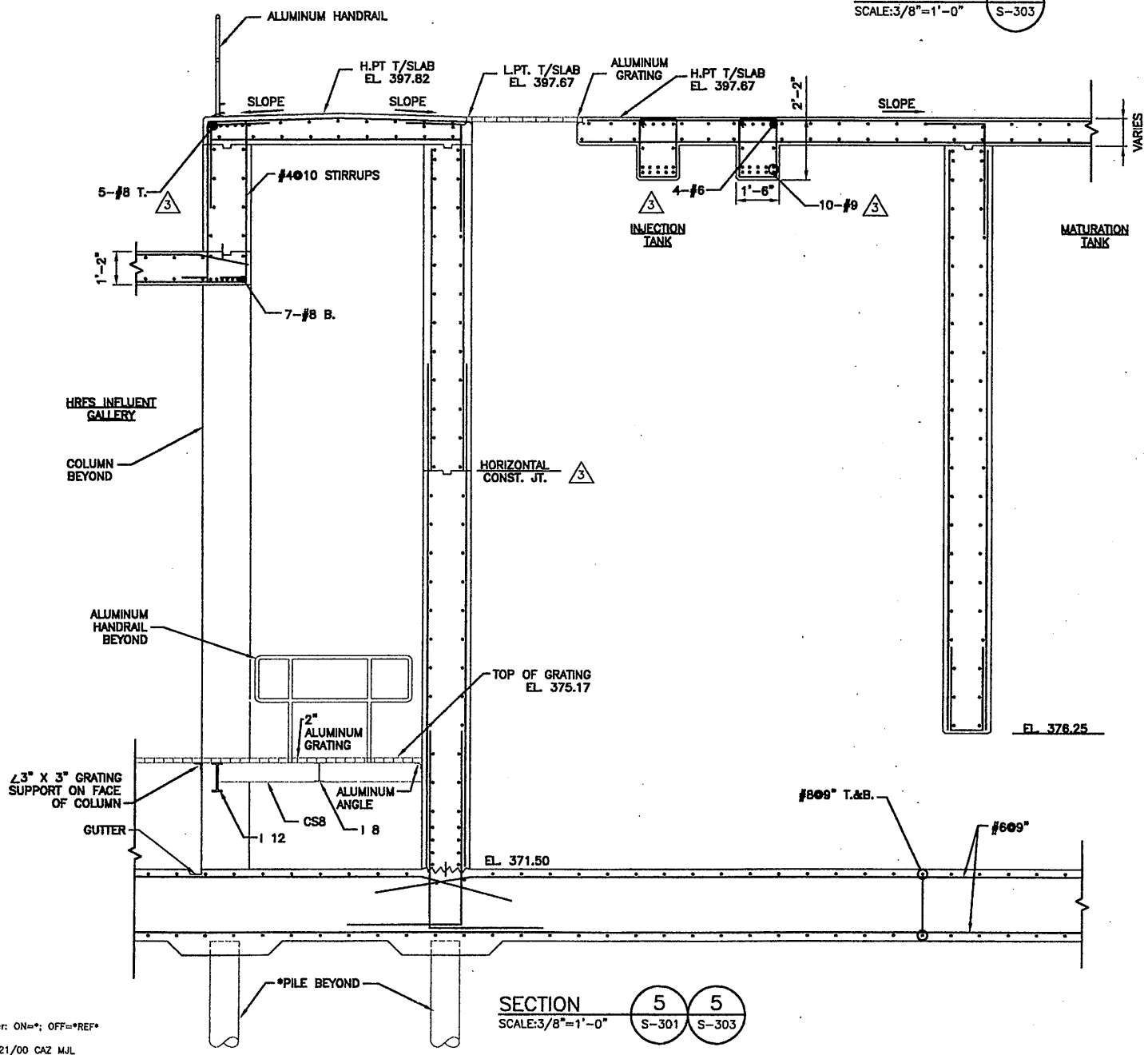
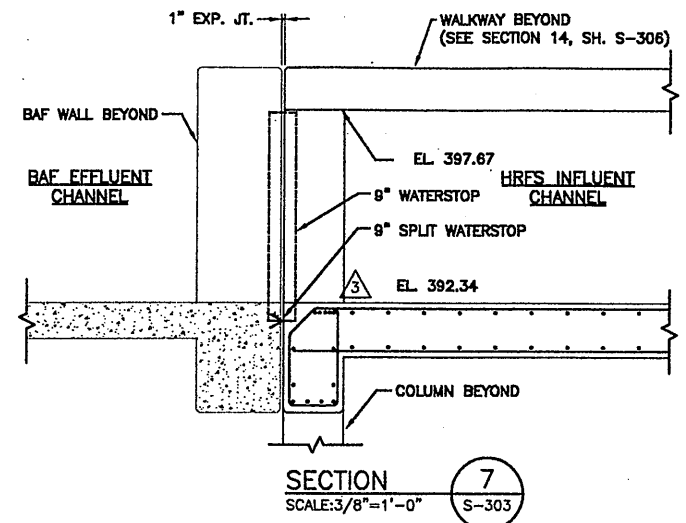
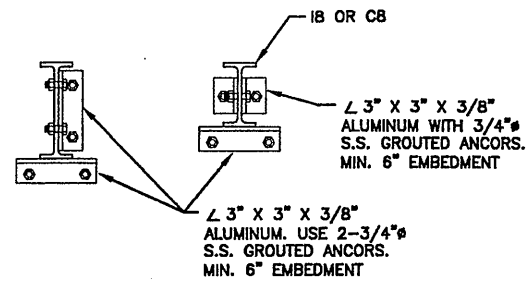
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In charge of DMH
Designed by CMK
Drawn by MJL
Checked by MEL

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX
SECTIONS AND DETAILS
STRUCTURAL

File Number 00659
Date APRIL 2001
S-307



NOTE:
 * 1. PILES INSTALLED UNDER CONTRACT C3
 2. SEE SH. S-312 FOR ROOF SUPPORT COLUMN LOCATIONS.

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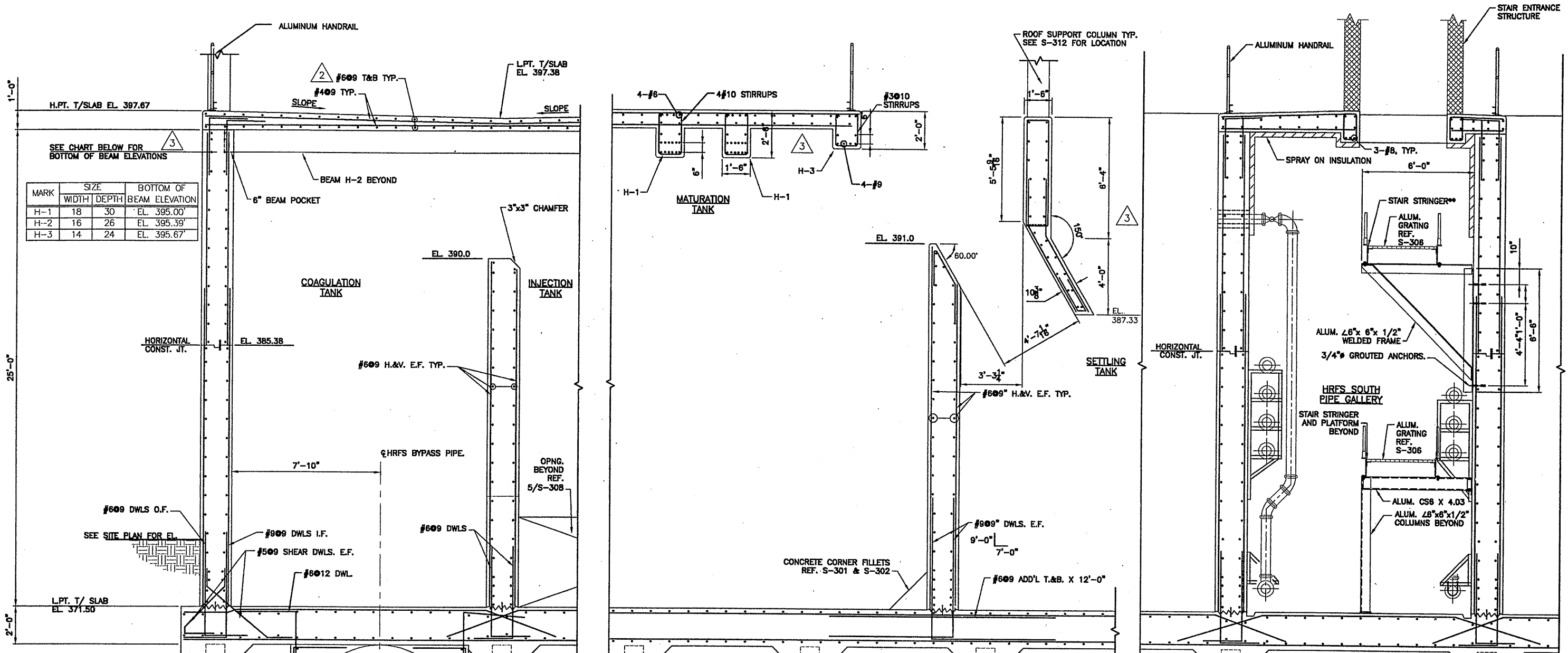
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4	05/05	FOR RECORD	

In charge of ___ DMH ___
 Designed by ___ CMK ___
 Drawn by ___ MJL ___
 Checked by ___ MEL ___



ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX SECTIONS AND DETAILS
 STRUCTURAL

File Number 00659
 Date APRIL 2001
S-308



SEE CHART BELOW FOR BOTTOM OF BEAM ELEVATIONS

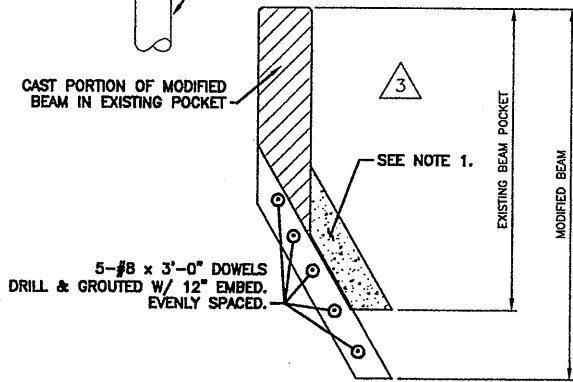
MARK	SIZE		BOTTOM OF BEAM ELEVATION
	WIDTH	DEPTH	
H-1	18	30	EL. 395.00'
H-2	16	26	EL. 395.39'
H-3	14	24	EL. 395.67'

SECTION 9 9
SCALE: 3/8"=1'-0"

SECTION 10 10
SCALE: 3/8"=1'-0"

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

NOTE:
* 1. PILES INSTALLED UNDER CONTRACT C3
** 2. STAIR NOT SHOWN FOR CLARITY
3. SEE SH. S-312 FOR ROOF SUPPORT COLUMN LOCATIONS.



RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
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EAA-VERT

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	GCH
1	6/26/01	AS BID	GCH
2	9/24/01	ADDENDUM No. 3	GCH
3	7/10/03	REVISED FOR MODIFICATION 4A-185	
4	05/05	FOR RECORD	

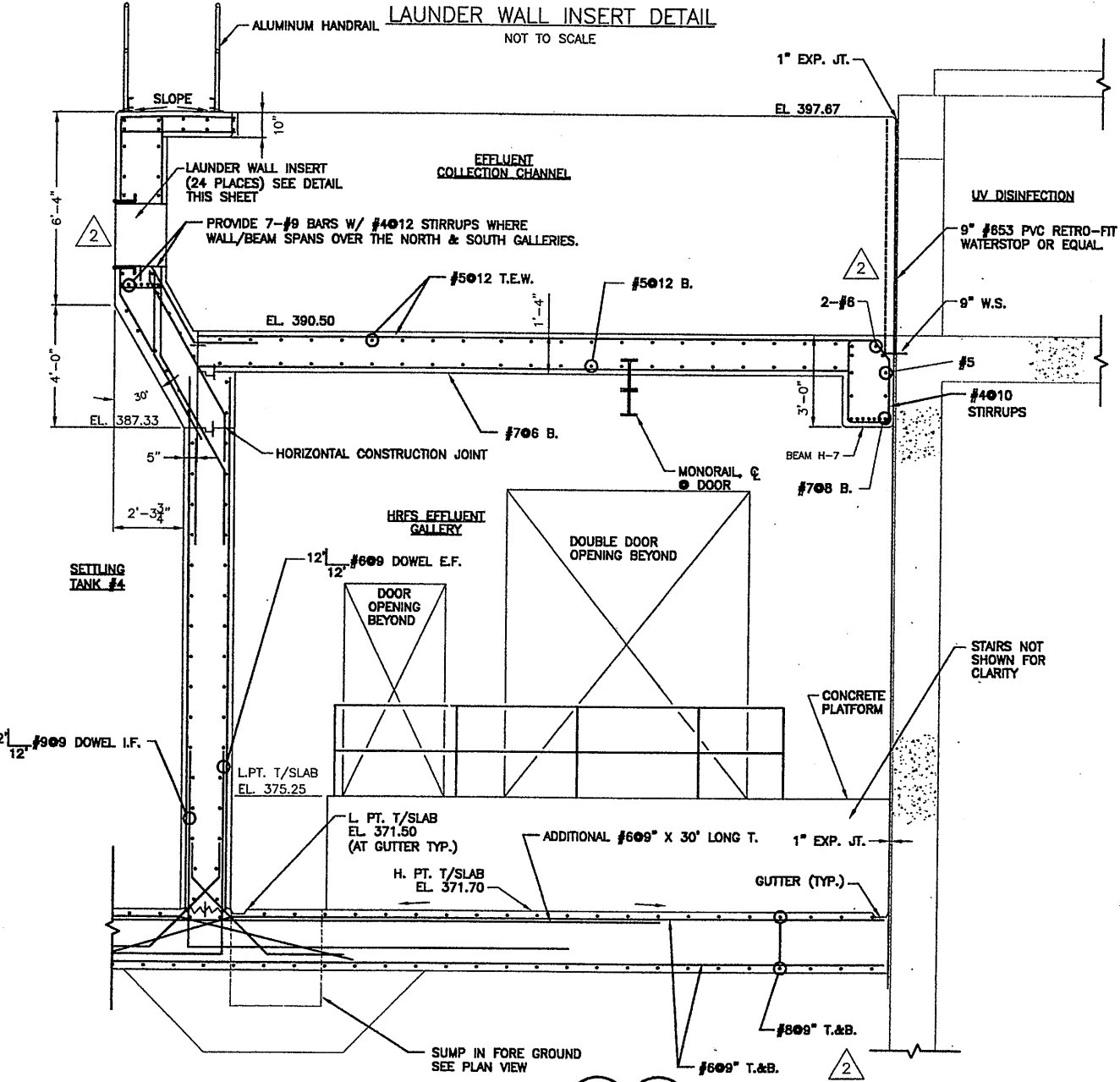
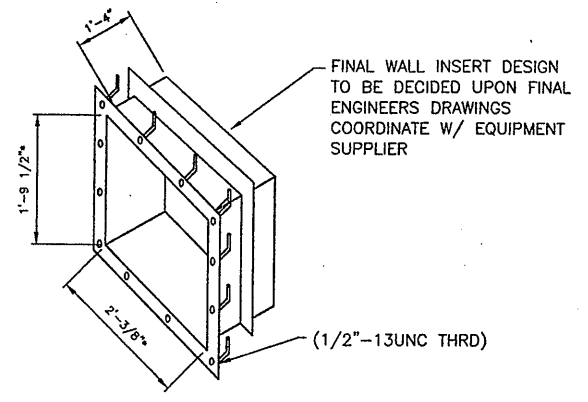
In charge of: DMH
Designed by: CMK
Drawn by: MJL
Checked by: MEL

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ANGLED BEAM @ SETTLING TANK No. 4
SCALE: 3/8"=1'-0"

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX SECTIONS AND DETAILS
STRUCTURAL

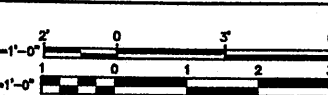
File Number: 00659
Date: APRIL 2001
S-309



SECTION 11
SCALE: 3/8"=1'-0"
S-302 S-304

NOTE:
ADD NEW 84" DIAMETER BYPASS PIPING.
ADDENDUM No. 3 4/2/02.

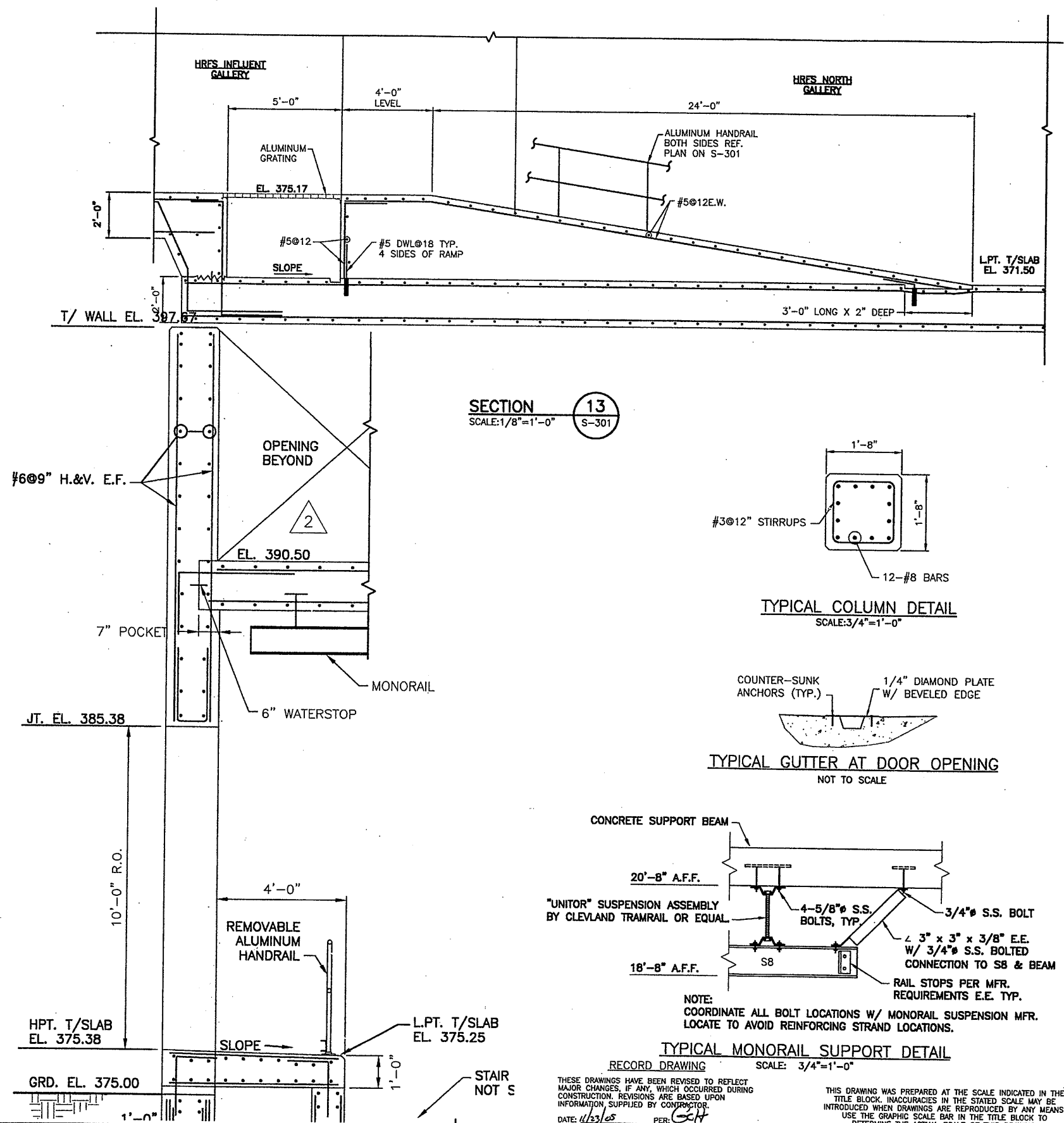
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1 09/21/00 CAZ M.JL
EEA-VERT



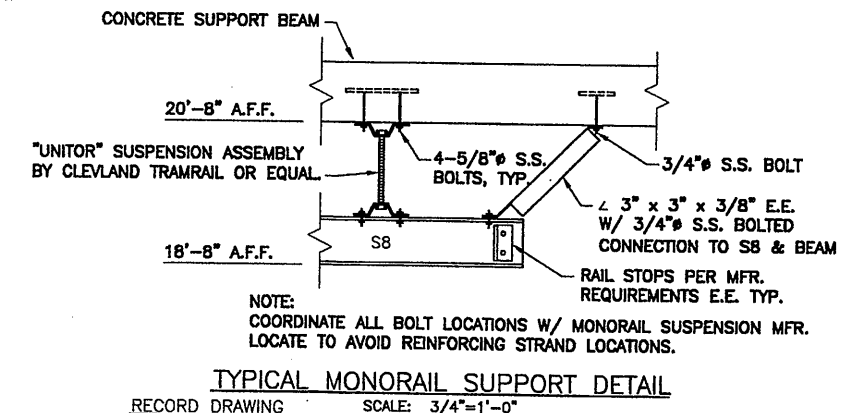
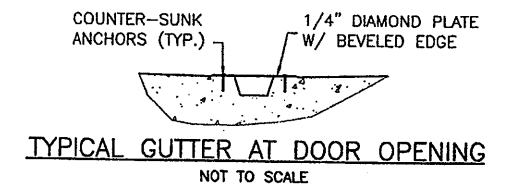
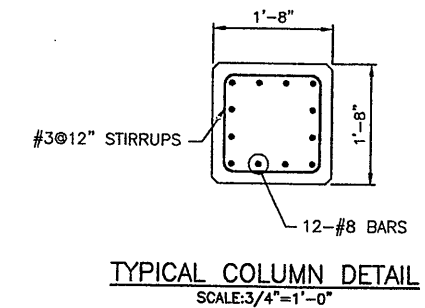
No.	Date	Revisions	Init
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3	05/05	FOR RECORD	

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Drawn by... M.JL
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SECTION 13
SCALE: 1/8"=1'-0"
S-301



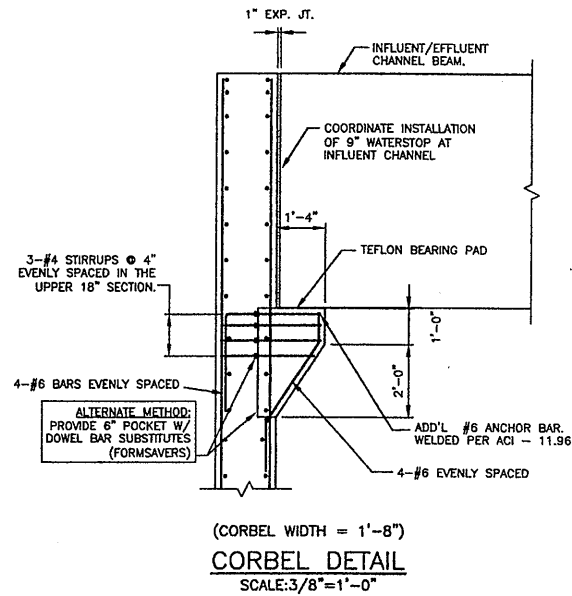
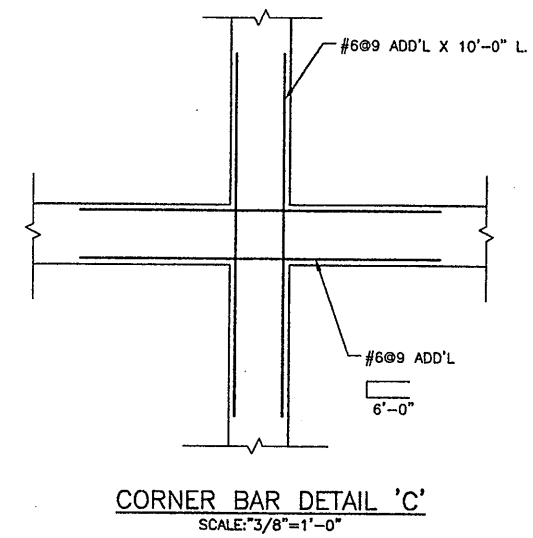
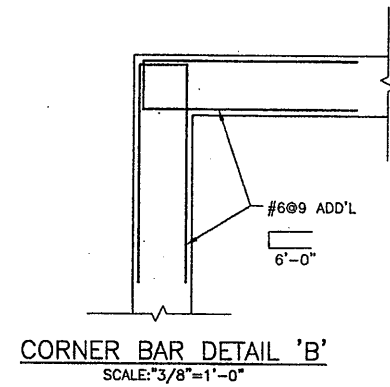
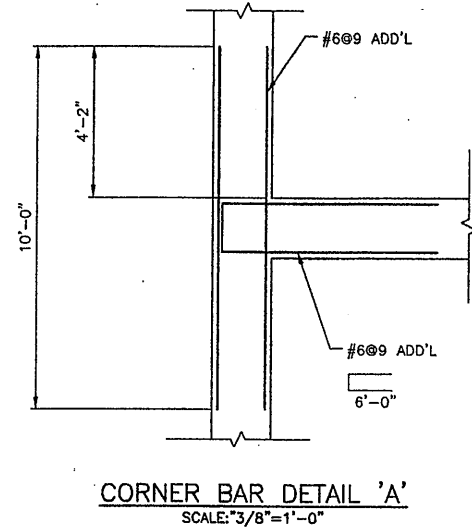
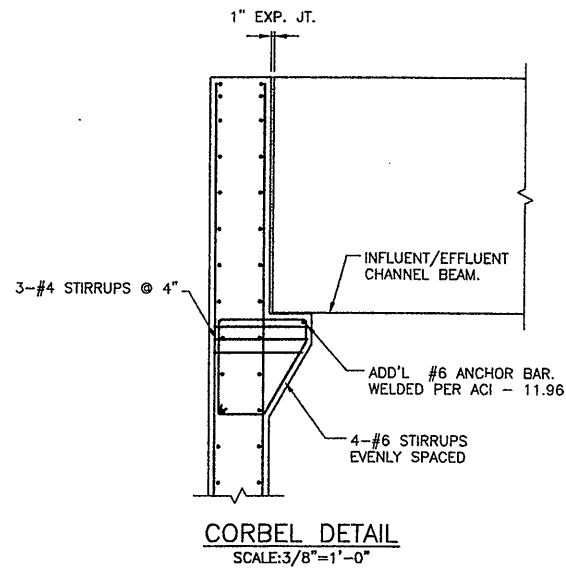
RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX SECTIONS AND DETAILS
STRUCTURAL

File Number 00659
Date APRIL 2001
S-310
Professional Engineer Seal

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BEAM SCHEDULE

SEE DETAILS "A" & "B"
"E" & "F" DIMENSION TOP BAR EA. SIDE OF SUPPORT Q
NOTED IN "FEET" ONLY IF DIFFERENT THAN STANDARD DETAIL

MARK	SIZE		REINFORCING					SECTION		STIRRUPS			REMARKS	
	WIDTH	DEPTH	B	T	C	H	E	F	TYPE	SIZE	SPACING	TYPE		
HRFS COMPLEX (H)														
H-1	18	30	12-#9	---	4-#6	4-#6	-	-	1		#4	10" F	T2	2 B. LAYERS
H-2	16	26	10-#9	---	4-#6	4-#6	-	-	1		#4	10" F	T2	2 B. LAYERS
H-3	14	24	4-#9	---	2-#6	2-#6	-	-	1		#3	10" F	T2	
H-4	14	20	3-#8	---	2-#6	2-#6	-	-	1		#3	8" F	T2	
H-5	20	70	3-#8	3-#8	3-#8	3-#8	-	-	2		#4	10" F	T2	
H-6	20	70	3-#8	3-#8	3-#8	3-#8	-	-	2,3		#4	10" F	T2	
H-7	20	36	7-#8	---	2-#6	2-#6	-	-	1		#4	10" F	T2	
H-8	20	70	4-#8	---	2-#6	2-#6	-	-	1		#4	10" F	T2	
H-9	20	102	3-#8	3-#8	3-#8	3-#8	-	-	2,3		#4	10" F	T2	
H-10	20	102	4-#8	---	2-#6	2-#6	-	-	1		#4	10" F	T2	

- SCHEDULE NOTES:**
- BEAMS SCHED. WITH EQUIV. REINF AT "H", "C", OR "T" CAN BE CONT. REINF. OR LAP AT MIDSPAN.
 - FOR BEAMS GREATER THAN 18" DEEP ADD #5@12" HORIZ. E.F. REINF. U.O.N.
 - HORIZ. BEAMS WITHIN SLABS; CONT. AND OTHER REINF. DETAILED W/SLAB SCHEDULE AND SECTIONS. HORIZ. BEAM STRIPS WITHIN WALLS: CONT. REINF. DETAILED W/ WALL SCHEDULE AND SECTIONS.

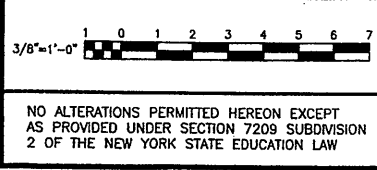
RECORD DRAWING

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09/21/00 CAZ MJL
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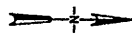
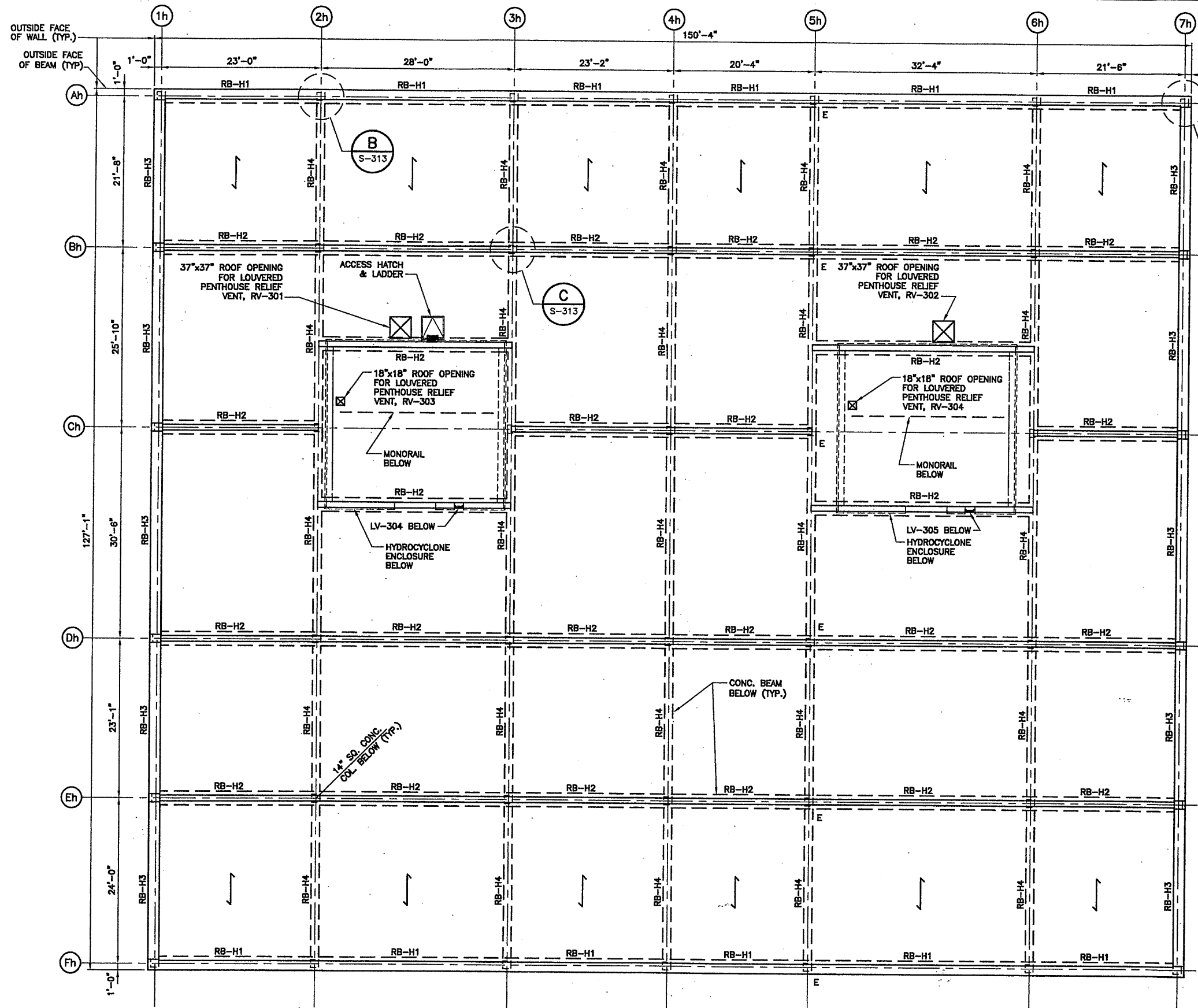
No.	Date	Revisions	Init
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1		AS BID	
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Designed by CMK
Drawn by MJL
Checked by MEL

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SYRACUSE, NEW YORK

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX
SCHEDULES AND MISCELLANEOUS
DETAILS
STRUCTURAL

File Number
00659
Date
APRIL 2001
S-311



ROOF FRAMING PLAN

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

PLAN NOTES:

1. SPAN OF PRESTRESSED CONCRETE PLANK.
2. E LOCATE EXPANSION BEARING HERE.

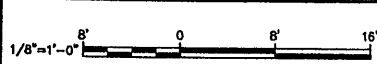
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00659x303
03/30/01 RAE
00659S312



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No.	Date	Revisions	Init
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1		AS BID	
2	9/25/01	ADDENDUM #3	
3	05/05	FOR RECORD	

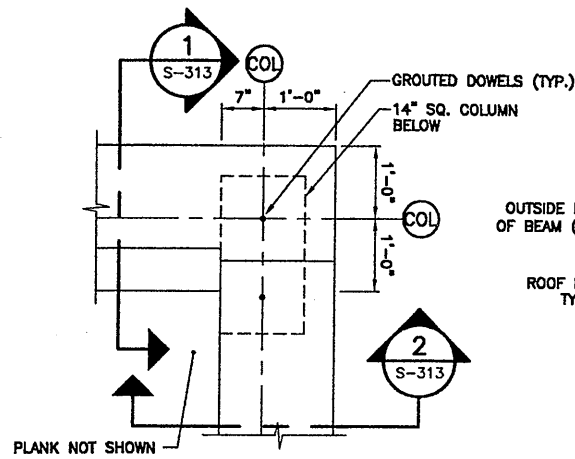
In charge of TWS
Designed by TWS
Drawn by RAE
Checked by CMT

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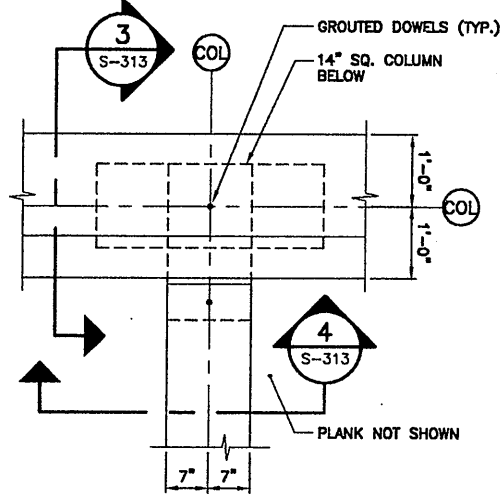
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
STRUCTURAL
HRFS PROCESS TANKS
ROOF FRAMING PLAN



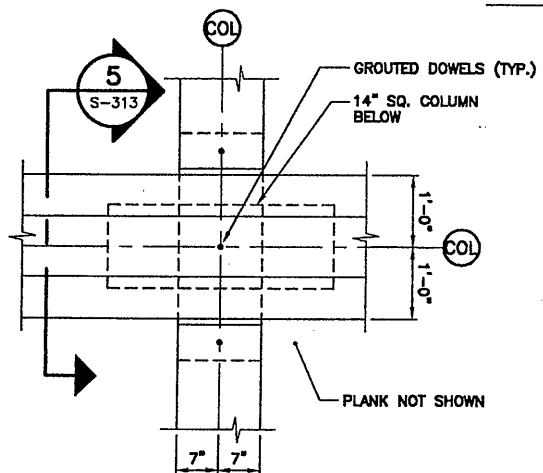
File Number
00659
Date
APRIL 2001
S-312



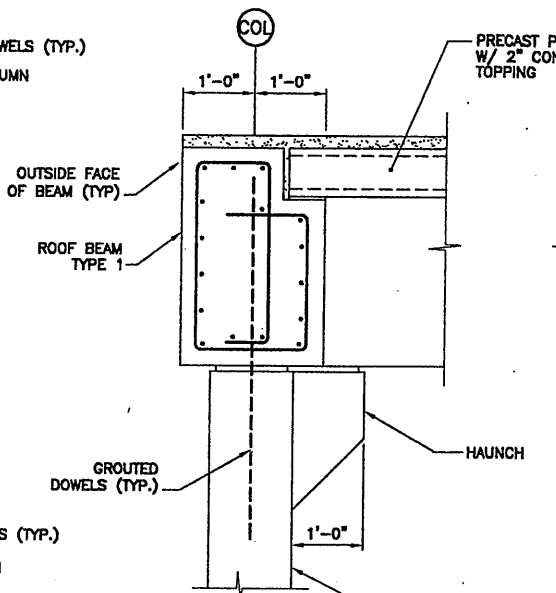
PLAN AT CORNER (A)
SCALE: 3/4" = 1'-0"



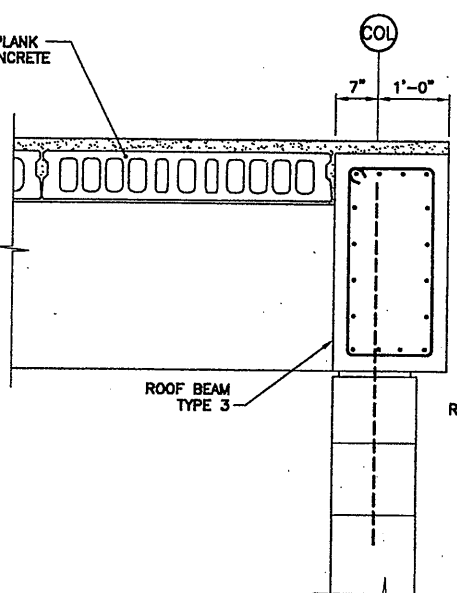
PLAN AT EDGE (B)
SCALE: 3/4" = 1'-0"



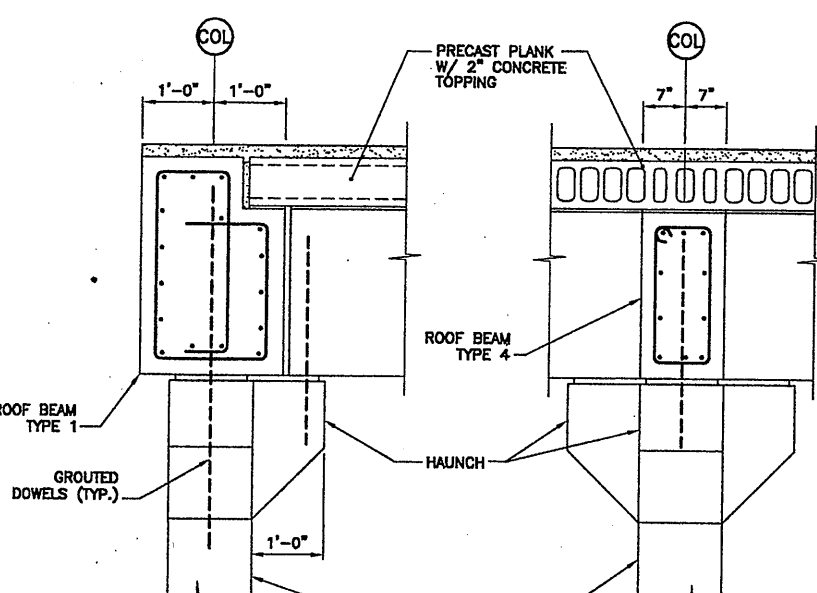
PLAN AT INTERIOR (C)
SCALE: 3/4" = 1'-0"



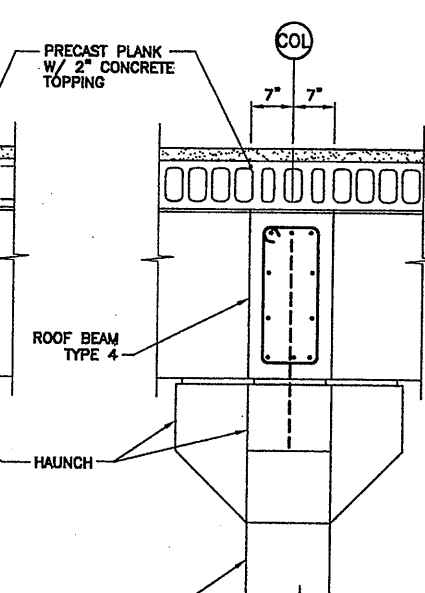
SECTION 1
SCALE: 3/4" = 1'-0"



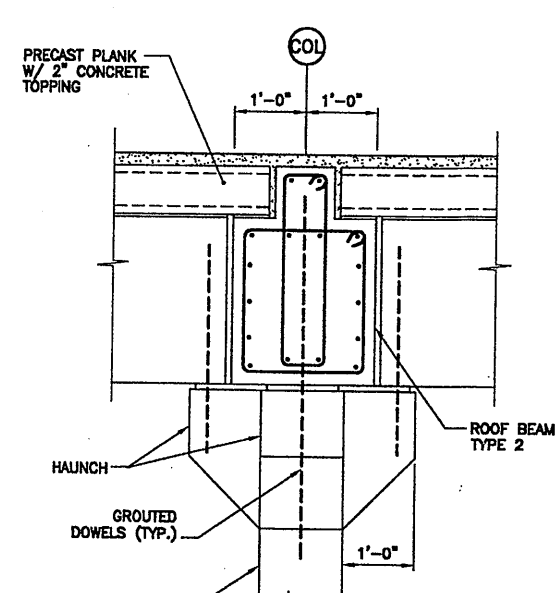
SECTION 2
SCALE: 3/4" = 1'-0"



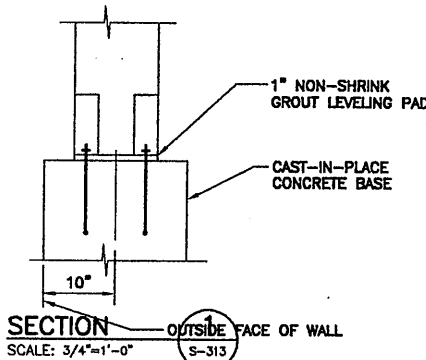
SECTION 3
SCALE: 3/4" = 1'-0"



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



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



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

ROOF BEAM SCHEDULE															
SEE DETAILS "A" & "B"															
"E" & "F" DIMENSION TOP BAR EA. SIDE OF SUPPORT G NOTED IN "FEET" ONLY IF DIFFERENT THAN STANDARD DETAIL															
MARK	SIZE		REINFORCING					SECTION		STIRRUPS			REMARKS		
	WIDTH	DEPTH	B	T	C	H	E	F	TYPE	SIZE	SPACING	TYPE			
BAF															
RB-H1	24"	36"	4-#9	3-#7	5-#6	#508	-	-	1			#5	8"	-	NOTES 1, 2
RB-H2	24"	36"	5-#10	3-#7	5-#6	#508	-	-	2			#5	8"	-	NOTES 1, 2
RB-H3	19"	36"	4-#7	4-#6	4-#6	#408	-	-	3			#4	8"	-	NOTES 1, 2
RB-H4	14"	24"	3-#7	3-#6	2-#6	#408	-	-	4			#4	8"	-	NOTES 1, 2

SCHEDULE NOTES:
1. BEAMS SCHED. WITH EQUIV. REINF AT "H", "C", OR "T" CAN BE CONT. REINF. OR LAP AT MIDSPAN.
2. FOR BEAMS GREATER THAN 18" DEEP ADD #5@12" HORIZ. E.F. REINF. U.O.N.

GENERAL NOTES:
THE P/C ROOF PLANKS ARE TO BE A MINIMUM THICKNESS IN ACCORDANCE WITH MANUFACTURER'S DESIGN.
THE LENGTHS SHALL BE SET BASED ON THE MANUFACTURER'S REQUIRED BEARING. THE WIDTH SHALL BE THE MANUFACTURER'S STANDARD WITH SPECIALS AS REQUIRED.
JOINTS SHALL BE GROUTED AND TOPPED IN ACCORDANCE WITH MANUFACTURER'S DESIGNS.
-ALL ROOF BEAMS AND COLUMNS ARE PRECAST CONCRETE USING MILD STEEL STANDARD DESIGNS OF P/C MANUFACTURERS OF PRESTRESSED PRECAST CONCRETE PRODUCTS MAY BE USED IN LIEU OF DESIGNS SHOWN.
-BEARING PADS SHALL BE DESIGNED BY PRECAST MANUFACTURERS.
-GROUTED DOWELS SHALL BE MINIMUM #9 BARS.

RECORD DRAWING
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DATE: 11/23/05 PER: GCH

CONC. COLUMN SCHEDULE	
COLUMN MARK	Ah1h, Ah2h, Ah3h, Ah4h, Ah5h, Ah6h, Ah7h, Ah1h, Bh2h, Bh3h, Bh4h, Bh5h, Bh6h, Bh7h, Ch1h, Ch2h, Ch3h, Ch4h, Ch5h, Ch6h, Ch7h, Dh1h, Dh2h, Dh3h, Dh4h, Dh5h, Dh6h, Dh7h, Eh1h, Eh2h, Eh3h, Eh4h, Eh5h, Eh6h, Eh7h, Fh1h, Fh2h, Fh3h, Fh4h, Fh5h, Fh6h, Fh7h
T/PLANK & BEAM EL. 412.67'	
T/CONCRETE EL. 397.67'	
COL. SIZE	14" x 14"
VERTICAL BARS	8-#8
STIRRUPS	#4@8"
ANCHORS	(4)-1" DIA.

03/30/01 OBG RAE
0659s313

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In charge of TWS
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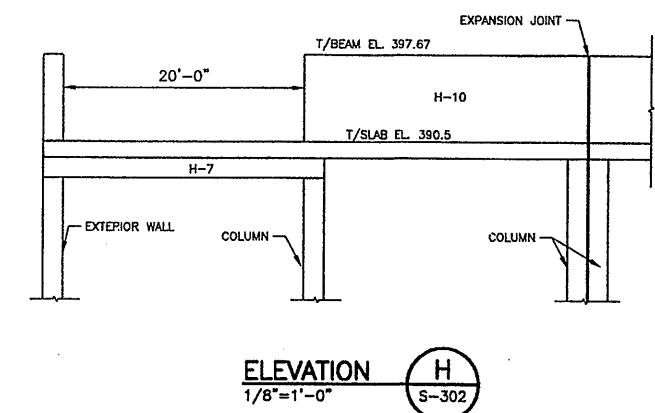
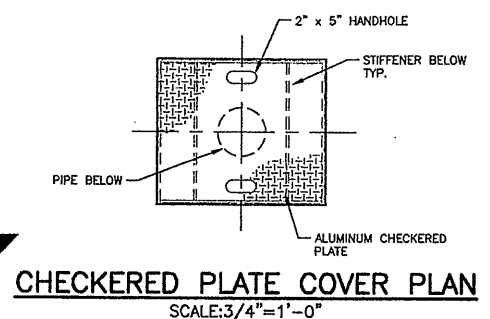
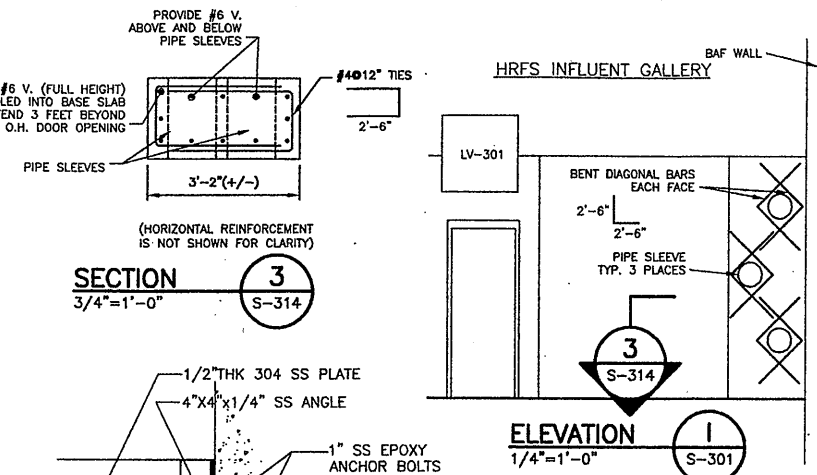
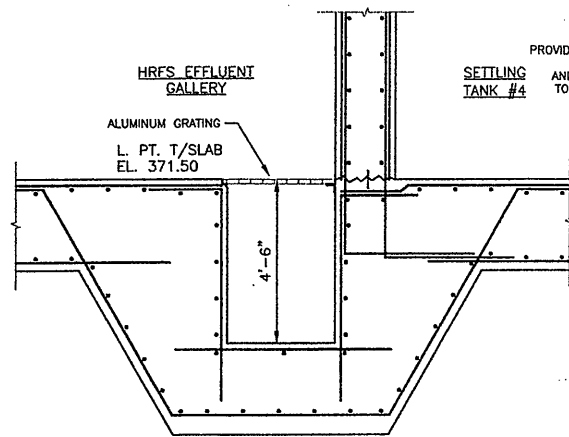
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SYRACUSE, NEW YORK

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRSF PROCESS TANKS
CONC. ROOF BEAMS & CONC. COLUMNS
SECTIONS & DETAILS
STRUCTURAL

STATE OF NEW YORK
PROFESSIONAL ENGINEER

File Number 00659
Date APRIL 2001
S-313

Gerald H. Hoke



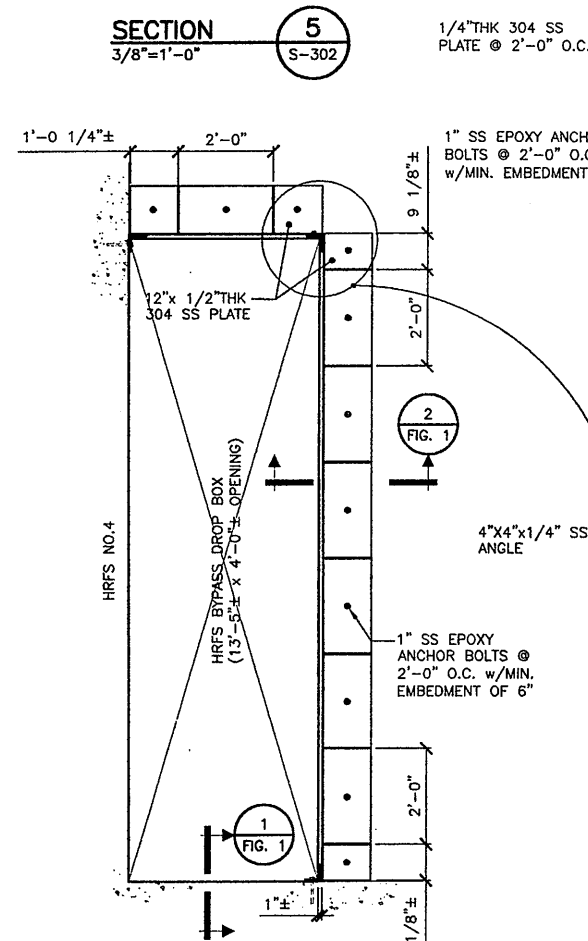
SECTION 5
3/8"=1'-0" S-302

SECTION 3
3/4"=1'-0" S-314

ELEVATION I
1/4"=1'-0" S-301

CHECKERED PLATE COVER PLAN
SCALE: 3/4"=1'-0"

ELEVATION H
1/8"=1'-0" S-302

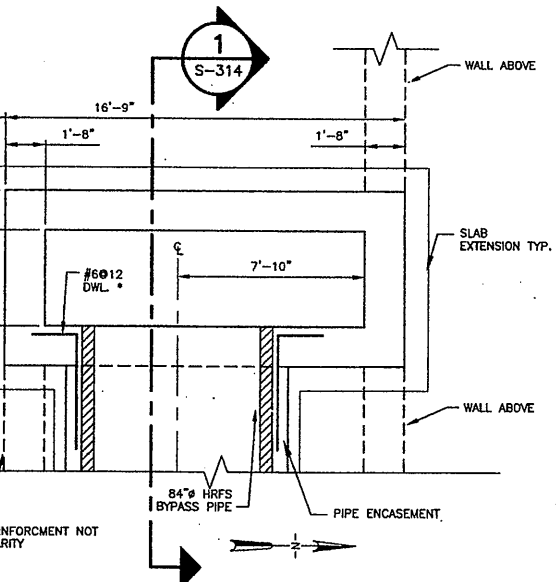


SECTION 1
SCALE: 1"=1'-0" FIG. 1

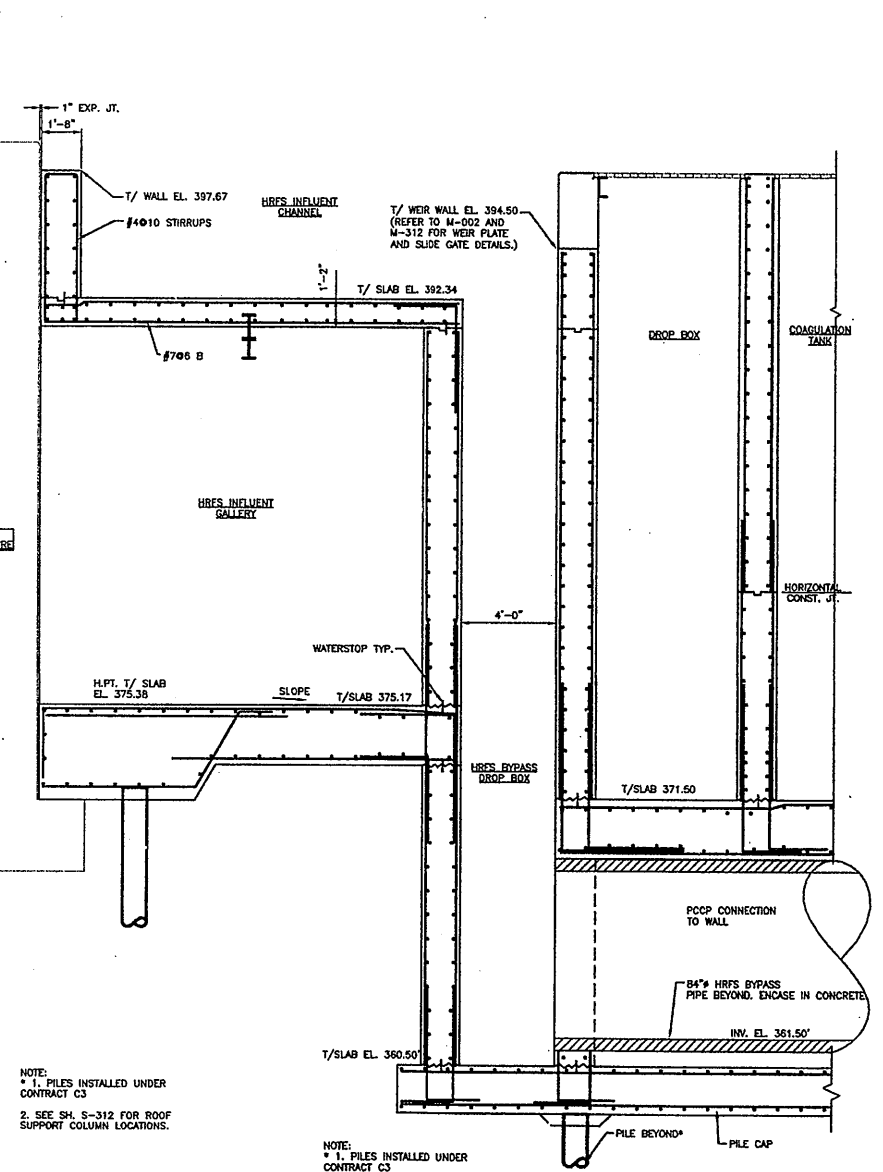
SECTION 2
SCALE: 1"=1'-0" FIG. 1

SECTION 2
3/4"=1'-0" S-301

DETAIL A
SCALE: 3"=1'-0" FIG. 1



HRFS BYPASS DROP BOX
PARTIAL PLAN @ EL. 363.00
SCALE: 1/4"=1'-0"



SECTION 1 1 1
SCALE: 1/4"=1'-0" S-301 S-303 S-314

Layer: ON=*; OFF=*REF*
1 09/21/00 CAZ MJL
EEA-VERT

No.	Date	Revisions	Init
0	5/22/03	ISSUED FOR MODIFICATION 4A-164	
1	05/05	FOR RECORD	

In charge of DMH
Designed by CMK
Drawn by CMS
Checked by CMK

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
HRFS COMPLEX
PLANS, SECTIONS, AND ELEVATIONS



File Number 00659
Date MAY 2003
S-314
Gerald C. Hood

RECORD DRAWING
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DATE: 4/23/05 PER: GCH

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STRUCTURAL

OPERATIONS CENTER
 (SEE S-500 SERIES DRAWINGS FOR CHEMICAL FEED DETAILS)

HRFS COMPLEX
 (SEE S-300 SERIES DRAWINGS FOR HRFS DETAILS)

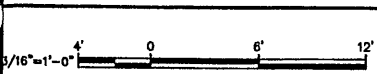
HRFS COMPLEX
 (SEE S-300 SERIES DRAWINGS FOR HRFS DETAILS)

PARTIAL FOUNDATION PLAN
 SCALE: 3/16"=1'-0"

PARTIAL FOUNDATION PLAN
 SCALE: 3/16"=1'-0"

RECORD DRAWING
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 DATE: 11/23/05 PER: GCH

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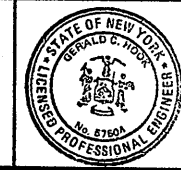
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No.	Date	Revisions	Init
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1	6/26/01	AS BID	GCH
2	9/24/01	ADDENDUM No. 3	GCH
3	5/22/03	REVISED FOR MODIFICATION 4A-164	
4	5/04	FOR RECORD	

In charge of DMH
 Designed by MEL
 Drawn by MJL
 Checked by CMK



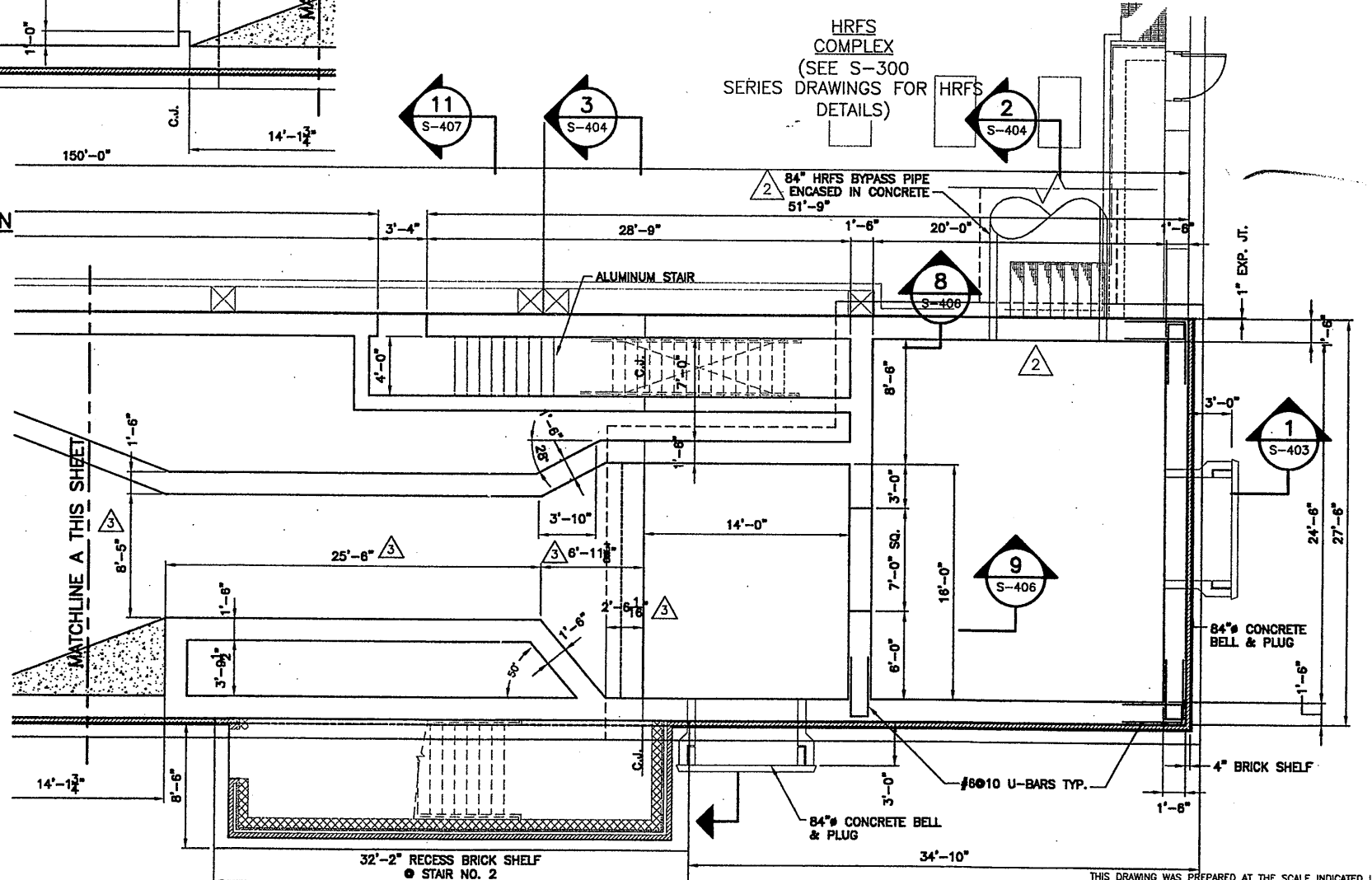
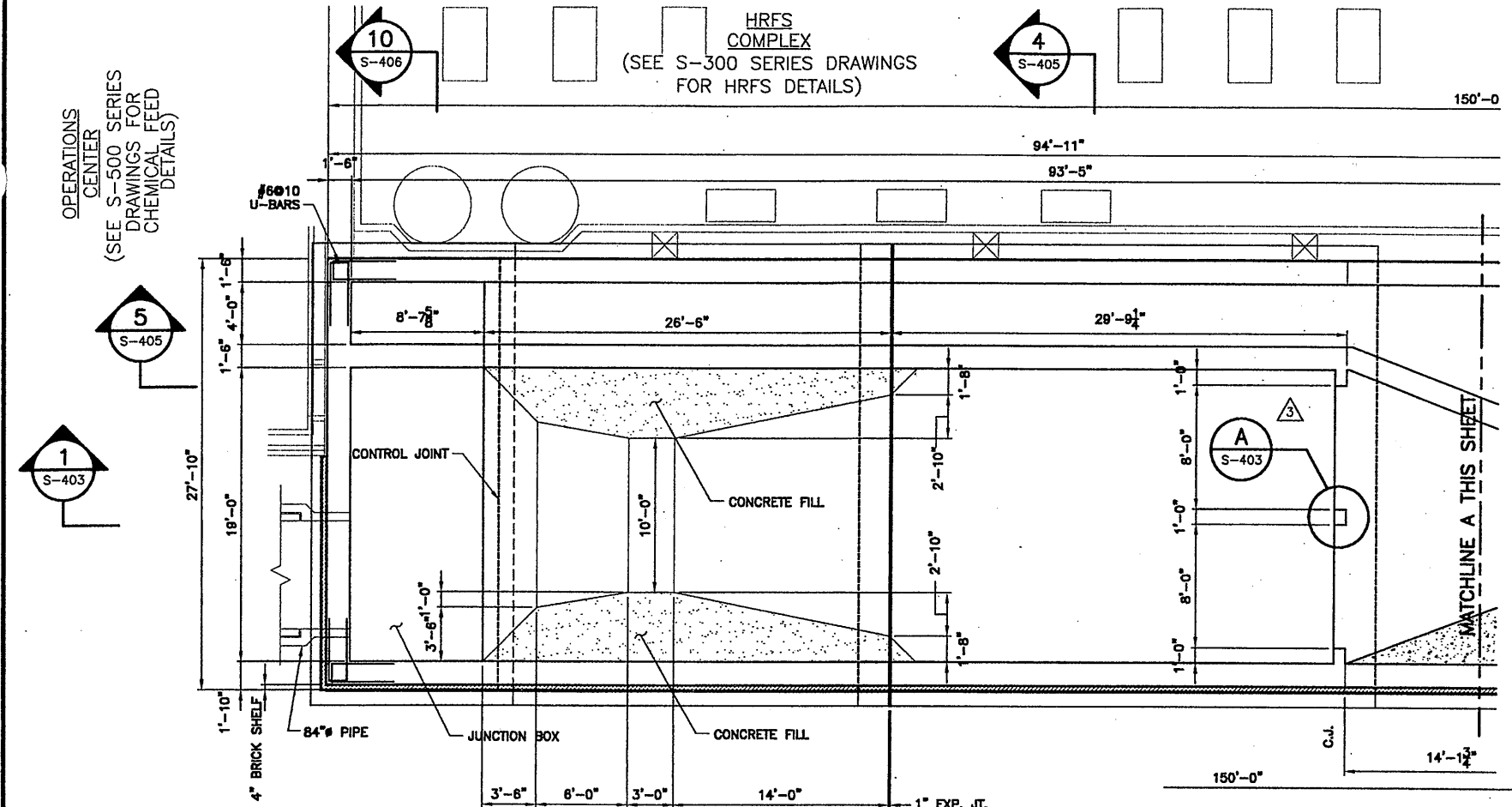
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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
U.V. DISINFECTION / PARSHALL FLUME FOUNDATION PLAN



File Number
 00659
 Date
 APRIL 2001
S-401

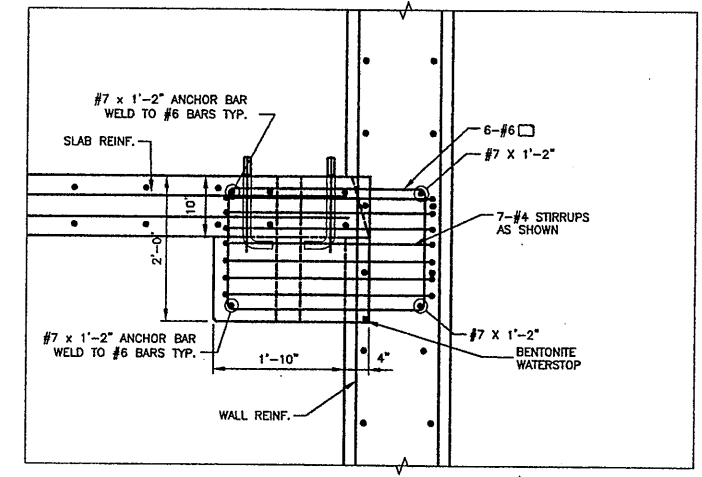
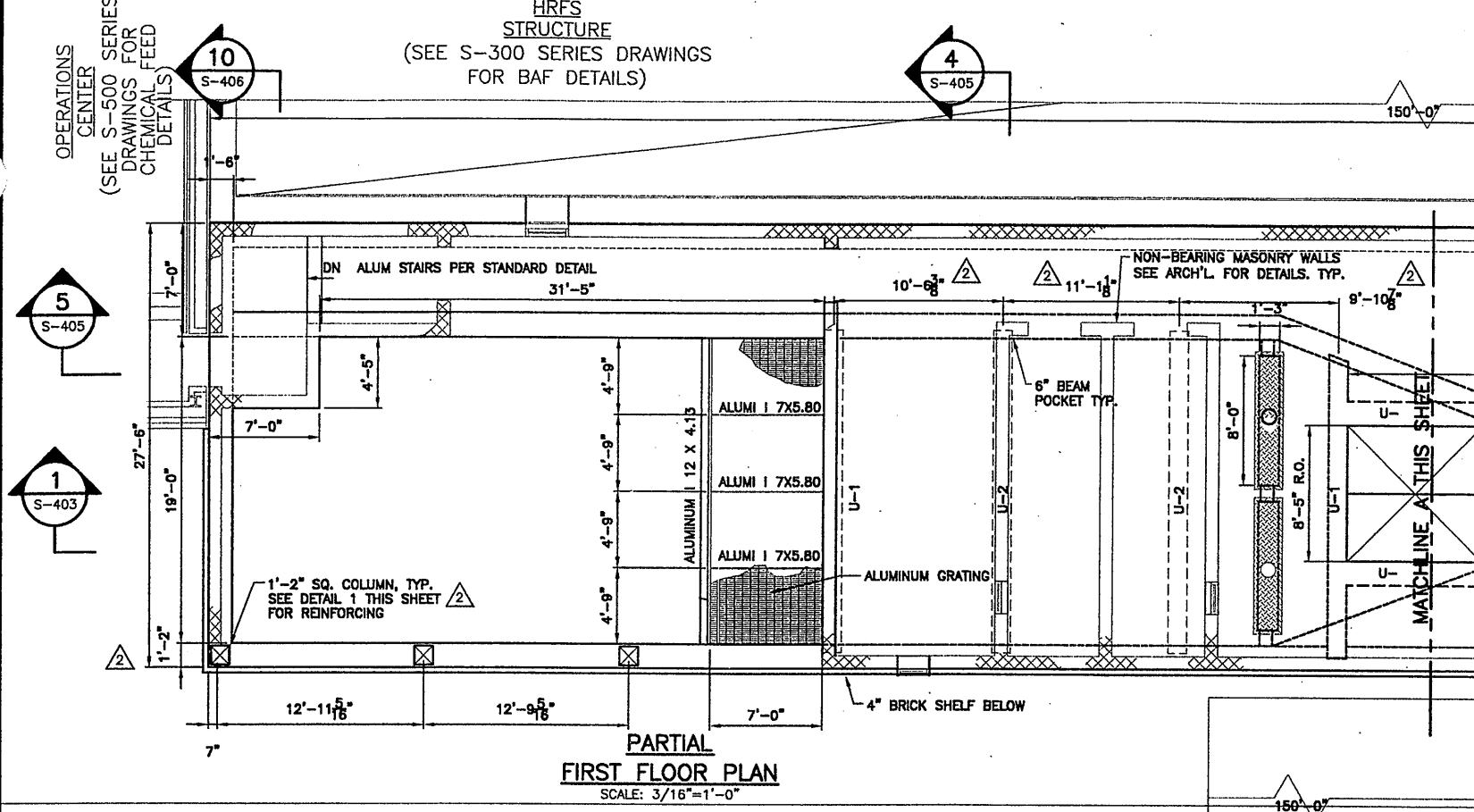
STRUCTURAL

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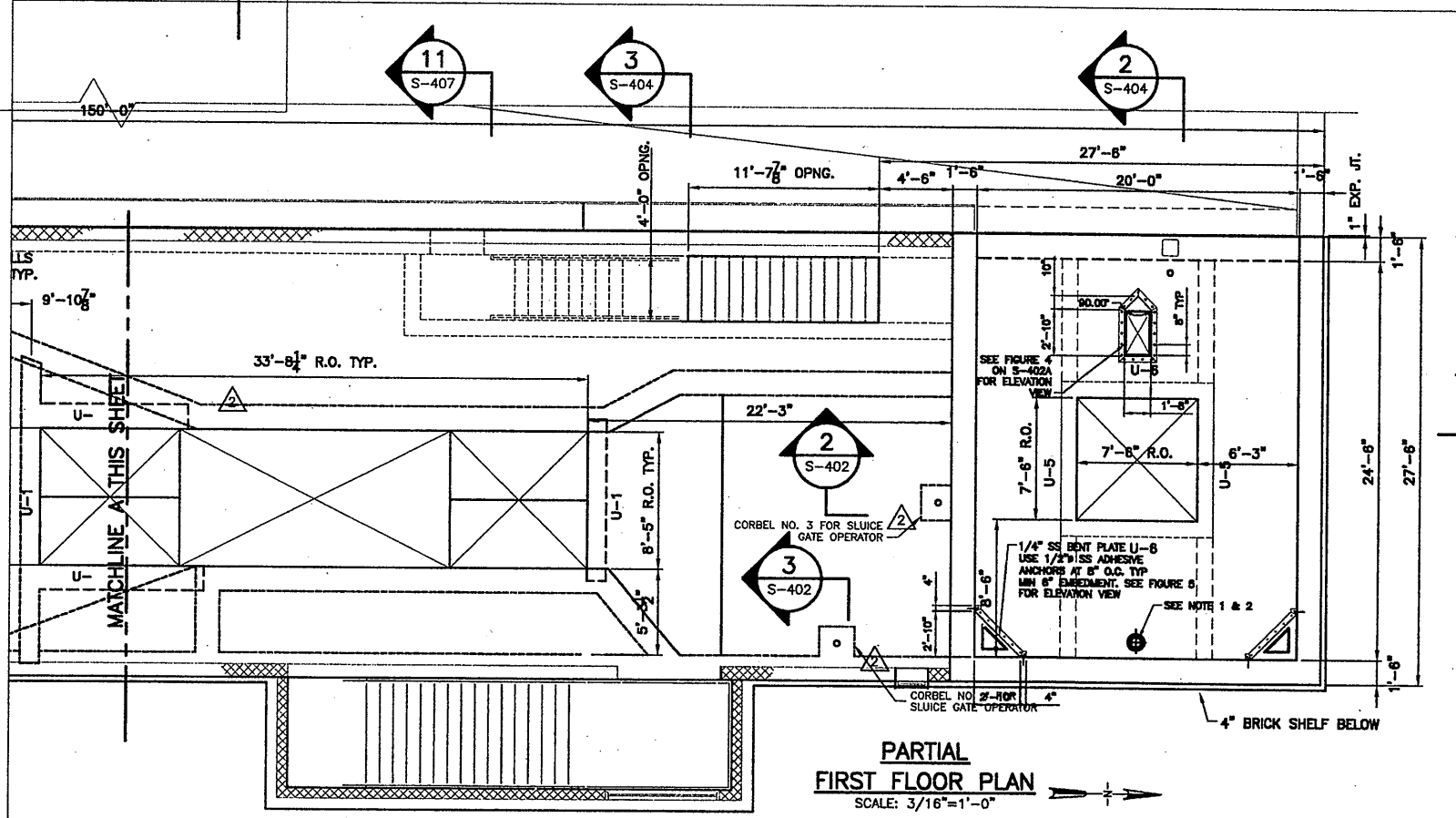


OPERATIONS CENTER
 CENTER
 (SEE S-500 SERIES DRAWINGS FOR CHEMICAL FEED DETAILS)

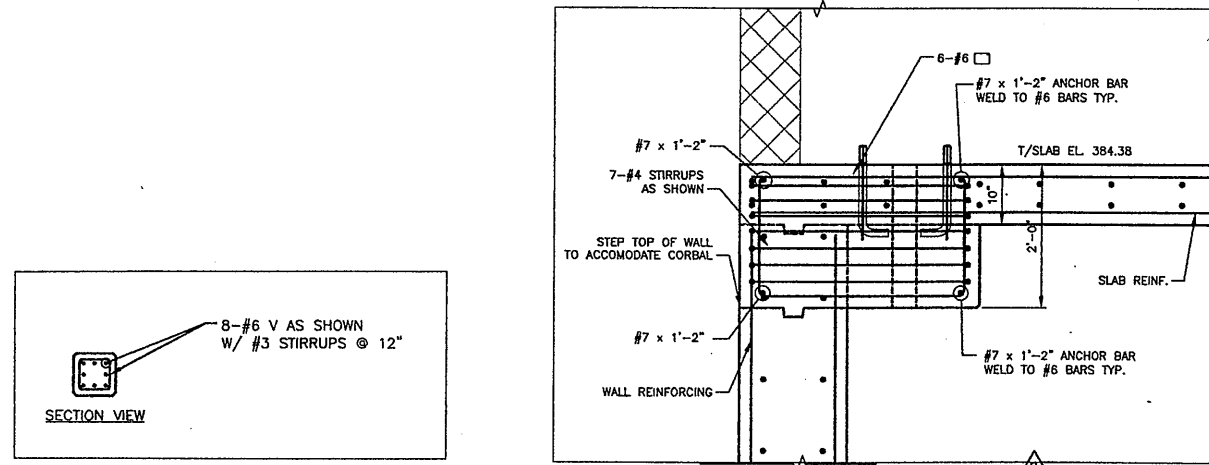
HRFS STRUCTURE
 (SEE S-300 SERIES DRAWINGS FOR BAF DETAILS)



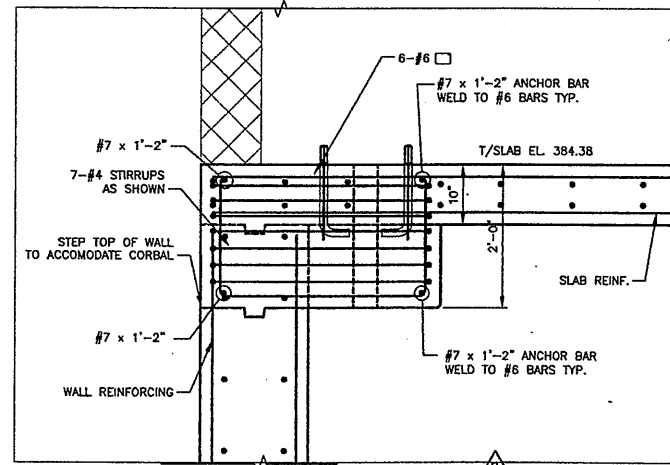
DETAIL 2
 SCALE: 3/4"=1'-0"



PARTIAL FIRST FLOOR PLAN
 SCALE: 3/16"=1'-0"



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



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

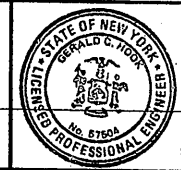
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 Designed by — MEL
 Drawn by — MJL
 Checked by — CMK

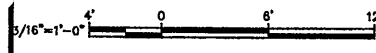
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 U.V. DISINFECTION / PARSHALL FLUME
FIRST FLOOR PLAN



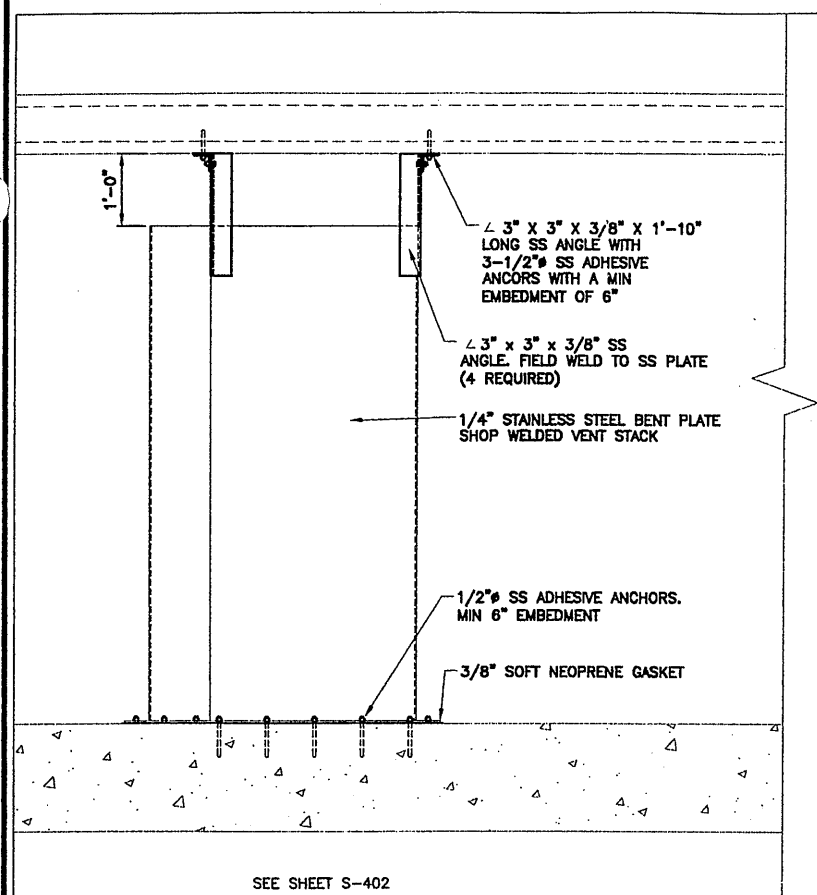
File Number
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S-402

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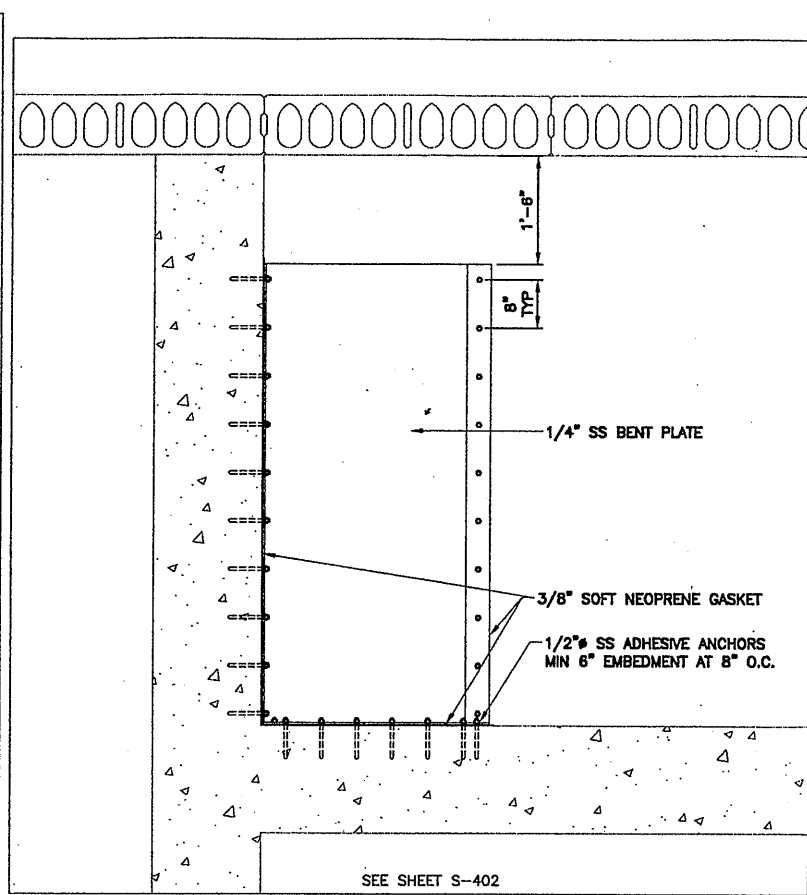
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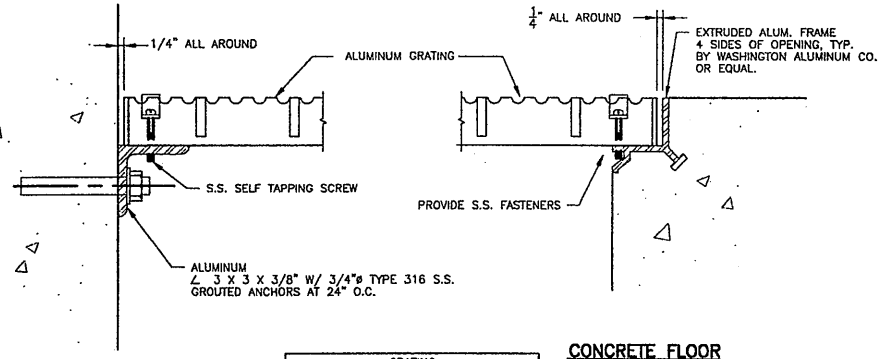
SEE SHEET S-402

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



SEE SHEET S-402

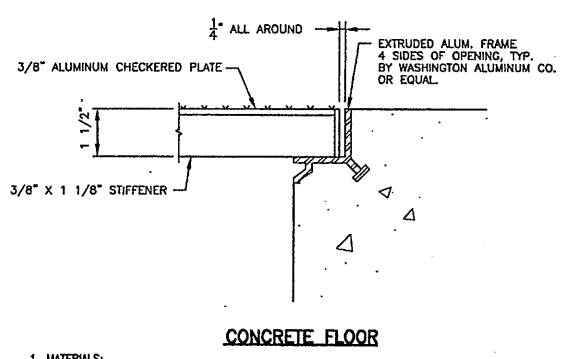
ELEVATION VIEW
SCALE: 3/4"=1'-0"



GRATING	
SPAN	ALUM. DEPTH
6" TO 2'-0"	1"
2'-1" TO 4'-0"	1 1/2"
4'-1" TO 6'-0"	2"

CONCRETE WALL

CONCRETE FLOOR



CONCRETE FLOOR

1. MATERIALS:
- a. CHECKERED PLATE, FRAME, SUPPORT MEMBERS, STIFFENERS AND CHECKERED PLATE ARE 6061-T6 OR 6063-T6 ALUMINUM.
2. EDGE BAND AT PERIMETER OF CHECKERED PLATE SECTION.
3. ALL FRAME JOINTS SHALL BE MITERED AND SHOP WELDED BOTH SIDES, GRIND EXPOSED WELDS SMOOTH.
4. 2" x 5" HANDHOLE REQUIRED AT EACH END OF CHECKERED PLATE.
5. STIFFENERS ARE AT EACH SIDE OF CHECKERED PLATE SECTION WITH TWO ADDITIONAL INTERNAL STIFFENERS EQUALLY SPACED.
6. WELD STIFFENERS TO CHECKERED PLATE WITH 3/16" MINIMUM STITCH WELD BOTH SIDES.
7. ALUMINUM IN CONTACT WITH CONCRETE SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS.

CHECKERED PLATE DETAIL
NOT TO SCALE

REFERENCE FIELD ORDER NO. 00004 FIG. 7

GRATING DETAIL
NOT TO SCALE

Layer: ON=*; OFF=*REF*
1
09/21/00 CAZ MJL
EEA-VERT



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Designed by MEL
Drawn by MJL
Checked by CMK

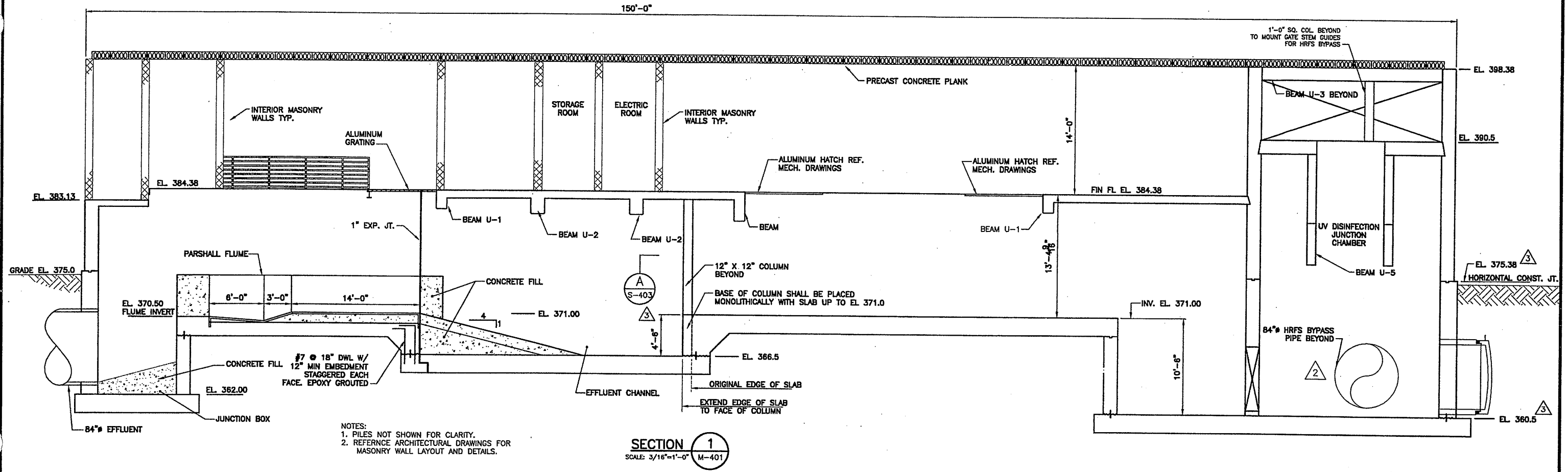
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U.V. DISINFECTION / PARSHALL FLUME
FIRST FLOOR PLAN

File Number 00659
Date APRIL 2001
S-402A

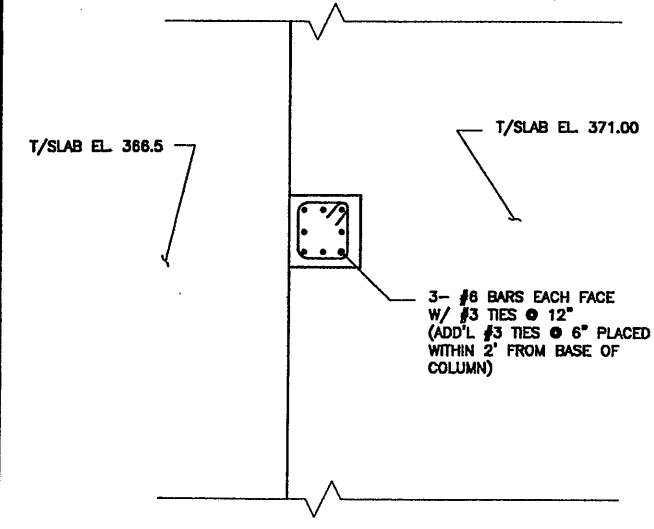
STRUCTURAL

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NOTES:
 1. PILES NOT SHOWN FOR CLARITY.
 2. REFERENCE ARCHITECTURAL DRAWINGS FOR MASONRY WALL LAYOUT AND DETAILS.

SECTION 1
 SCALE: 3/16"=1'-0" M-401



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

Layer: ON=, OFF=REF*
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 05503045/0659M402

BEAM SCHEDULE

SEE DETAILS "A" & "B"
 "E" & "F" DIMENSION TOP BAR EA. SIDE OF SUPPORT Q
 NOTED IN "FEET" ONLY IF DIFFERENT THAN STANDARD DETAIL

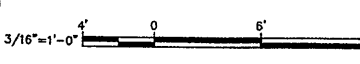
MARK	SIZE		REINFORCING					E	F	TYPE	SECTION		STIRRUPS		REMARKS
	WIDTH	DEPTH	B	T	C	H	Q				Q	SIZE	SPACING	TYPE	
UV DISINFECTION/PARSHALL FLUME (U)															
U-1	14	24	5-#8							1				10" F	T2
U-2	18	30	6-#8		2-#6					1			#3	10" F	T2
U-3	18	24	7-#5		2-#6					1			#3	10" F	T2
U-4	16	24	2-#6	2-#6	2-#6					2,3			#3	10" F	T2
U-5	12	54	4-#9										#3		
U-6	12	48	2-#5		2-#5					1					

SCHEDULE NOTES:
 1. BEAMS SCHED. WITH EQUIV. REINF AT "H", "C", OR "T" CAN BE CONT. REINF. OR LAP AT MIDSPAN.
 2. FOR BEAMS GREATER THAN 18" DEEP ADD #4@12" HORIZ. E.F. REINF. U.O.N.
 3. HORIZ. BEAMS WITHIN SLABS: CONT. AND OTHER REINF. DETAILED W/SLAB SCHEDULE AND SECTIONS.
 HORIZ. BEAM STRIPS WITHIN WALLS: CONT. REINF. DETAILED W/ WALL SCHEDULE AND SECTIONS.

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In charge of... DMH
 Designed by... CMK
 Drawn by... MJL/CMS
 Checked by... DMH

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 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

SECTIONS AND DETAILS
 STRUCTURAL

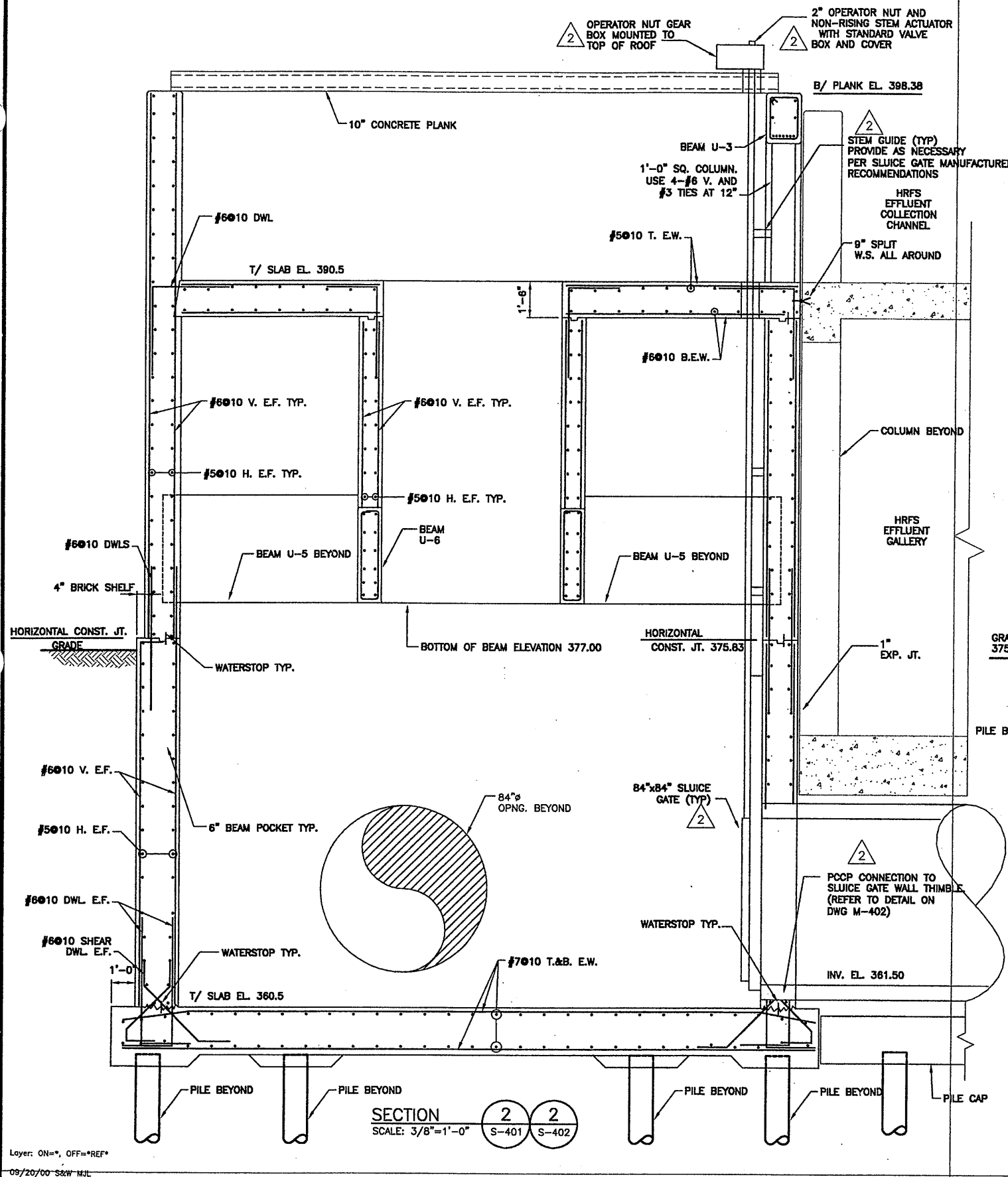


File Number 00659

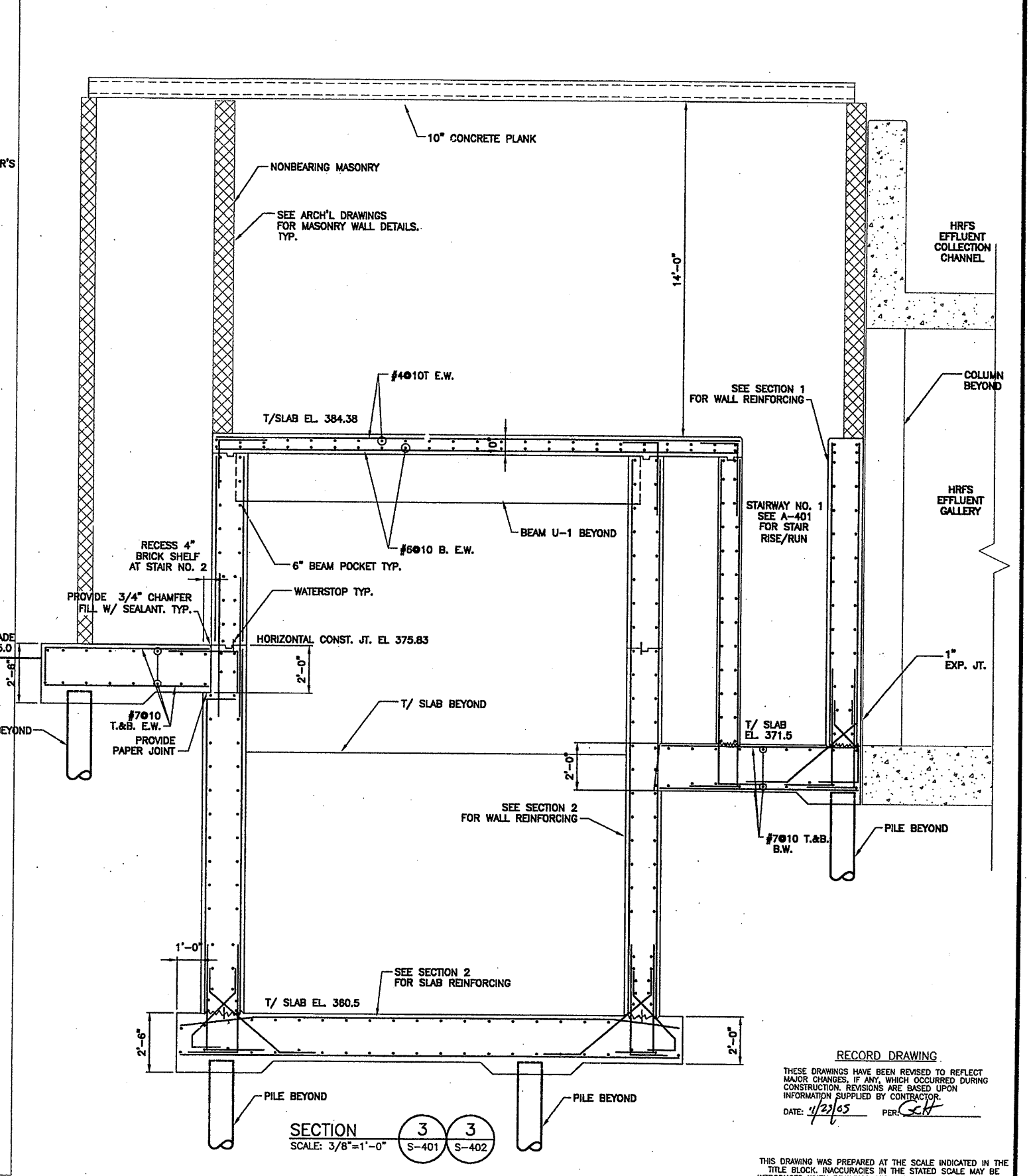
Date APRIL 2001

S-403

Gerald C. Hoyle



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



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

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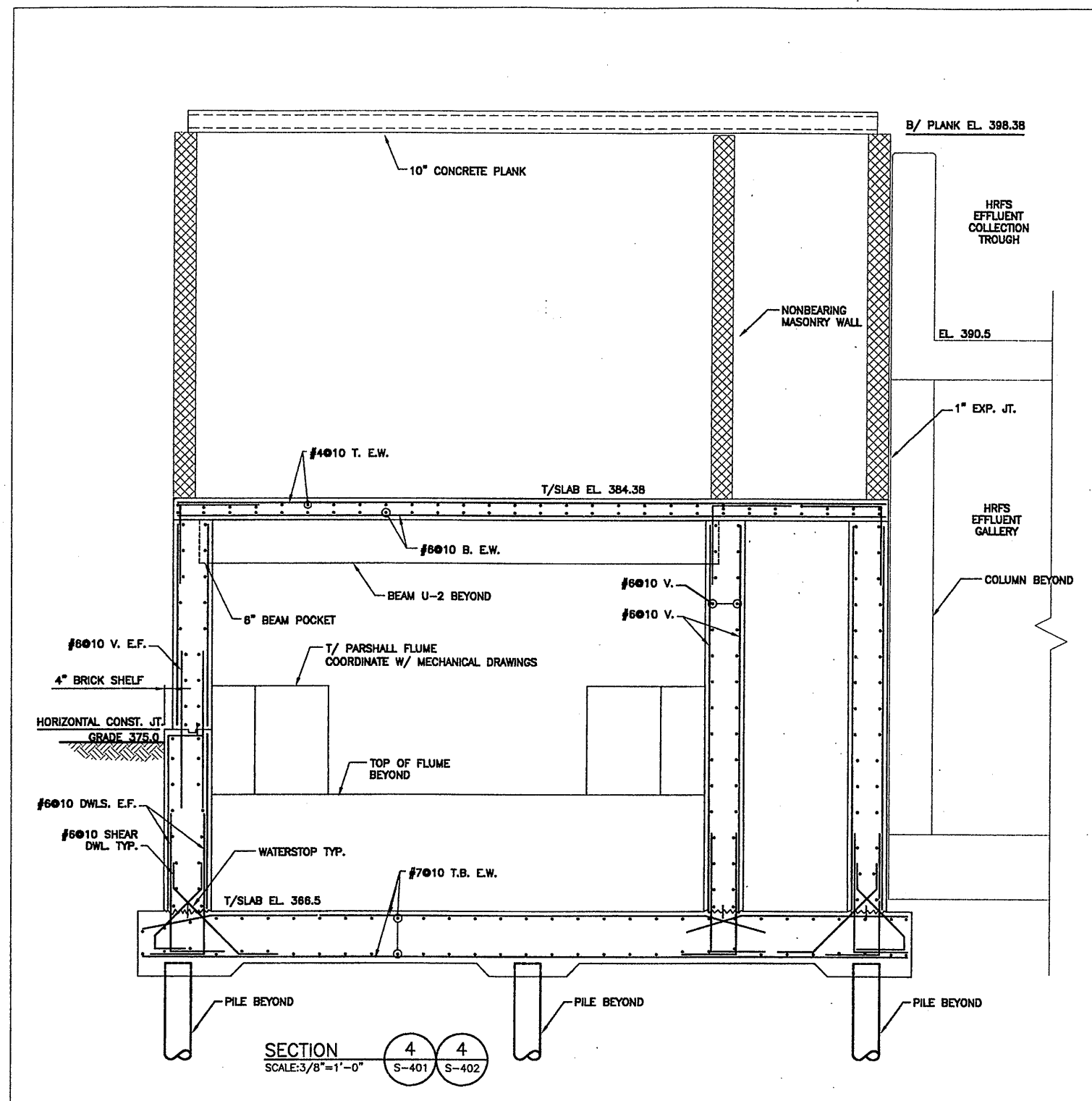
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Drawn by MJL
Checked by CMK

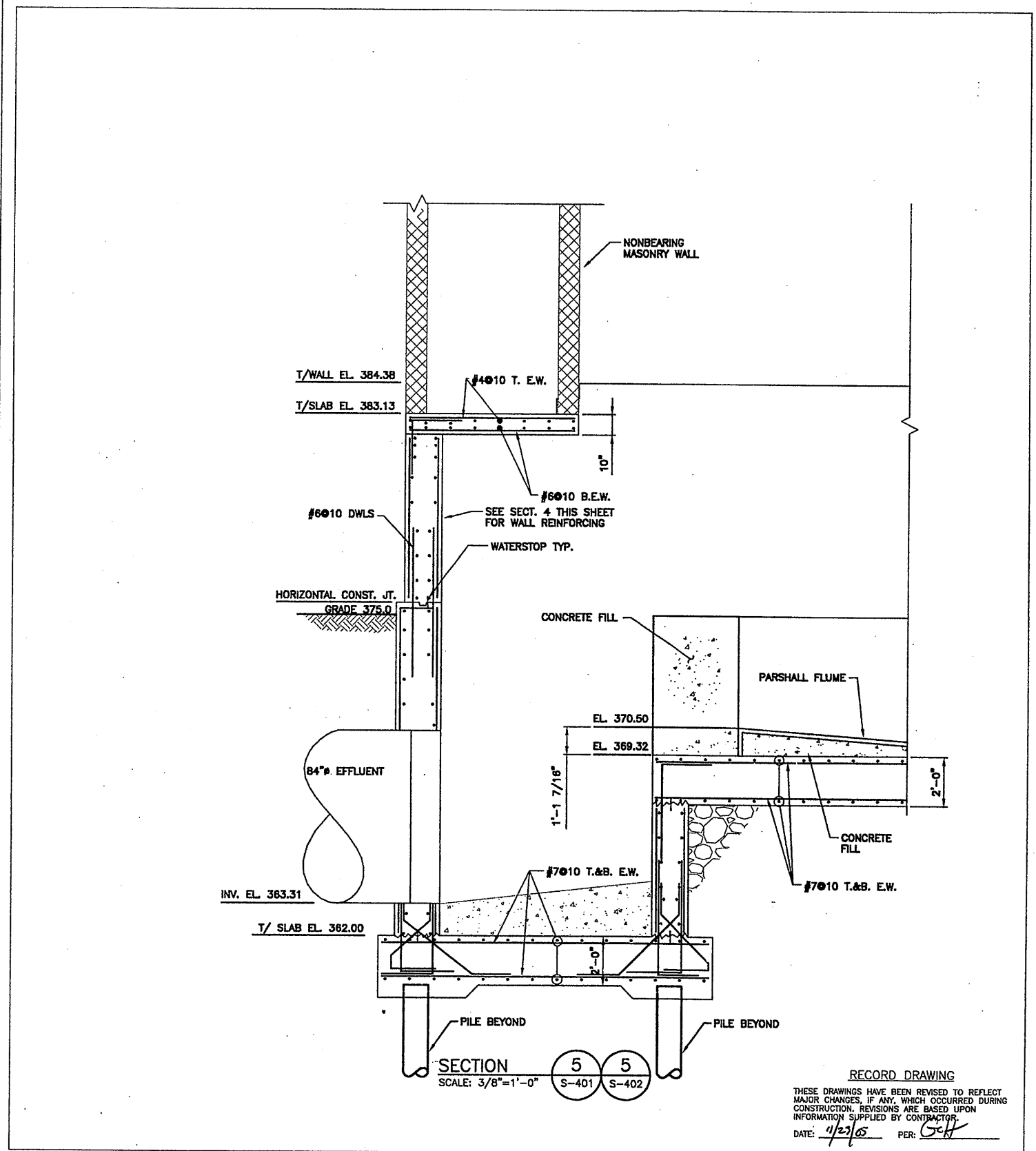
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UV DISINFECTION/PARSHALL FLUME
SECTIONS
STRUCTURAL

File Number 00659s403
Date APRIL 2001
S-404
Professional Engineer Seal: GERALD C. HOOD, No. 87504, LICENSED PROFESSIONAL ENGINEER



SECTION 4 4
SCALE: 3/8"=1'-0"
S-401 S-402



SECTION 5 5
SCALE: 3/8"=1'-0"
S-401 S-402

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09/20/00 S&W MJL
05503045/0659M402

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Designed by: MEL
Drawn by: MJL
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
UV DISINFECTION/PARSHALL FLUME
SECTIONS



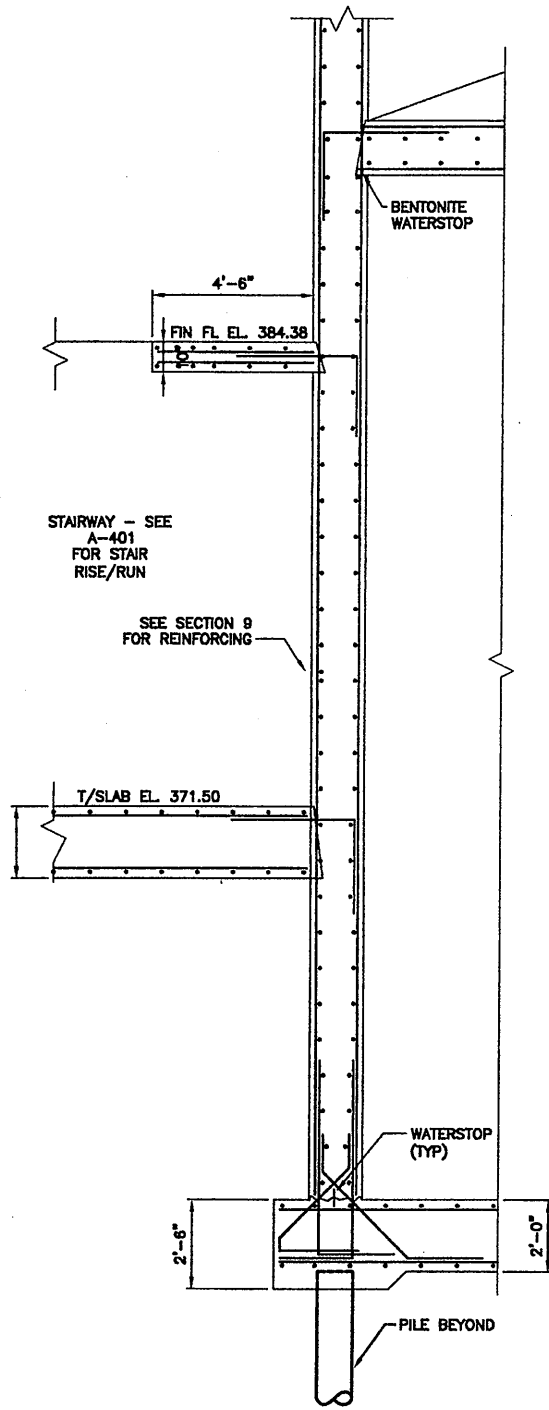
File Number: 00659s403
Date: APRIL 2001

S-405

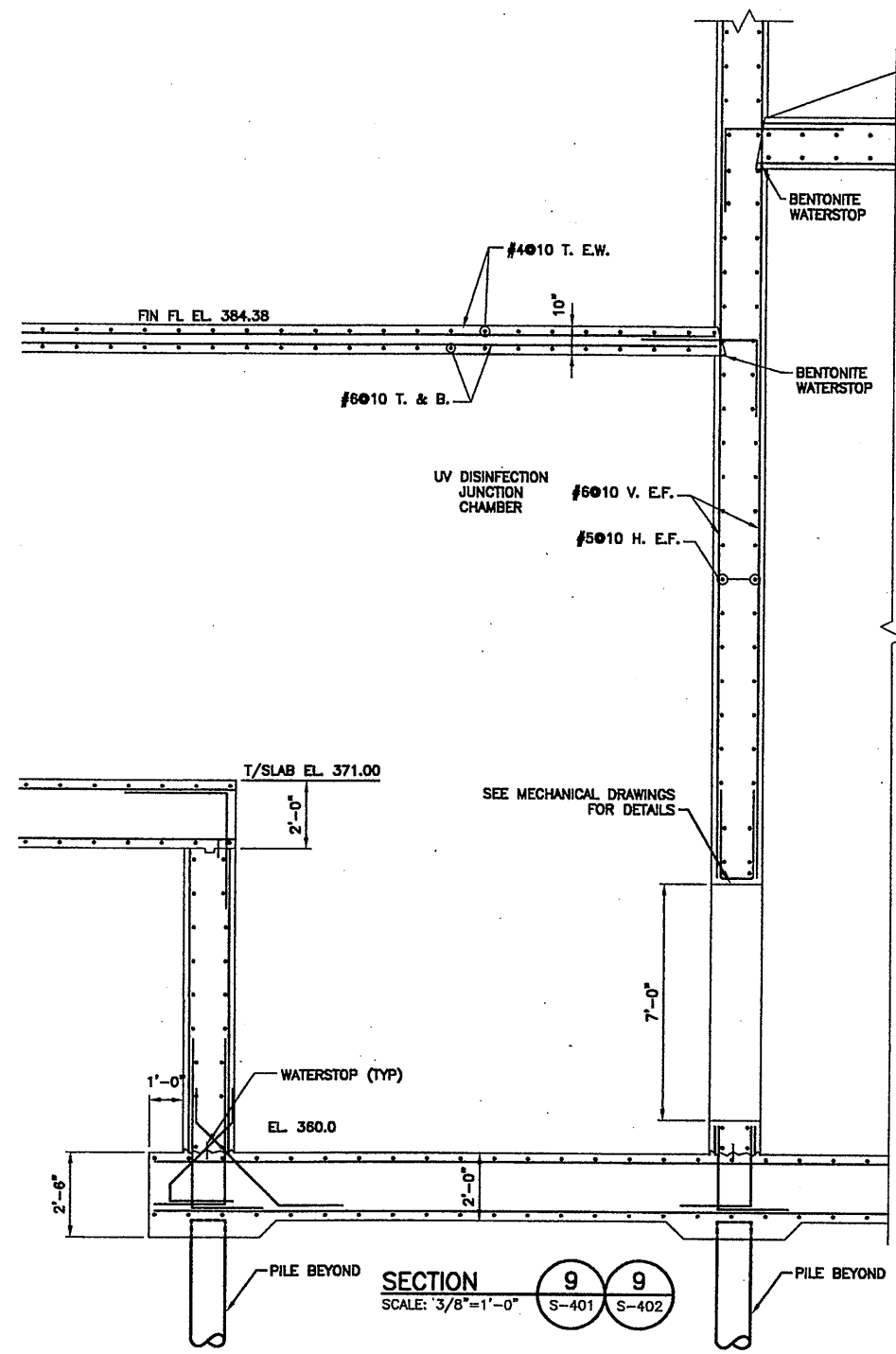
STRUCTURAL

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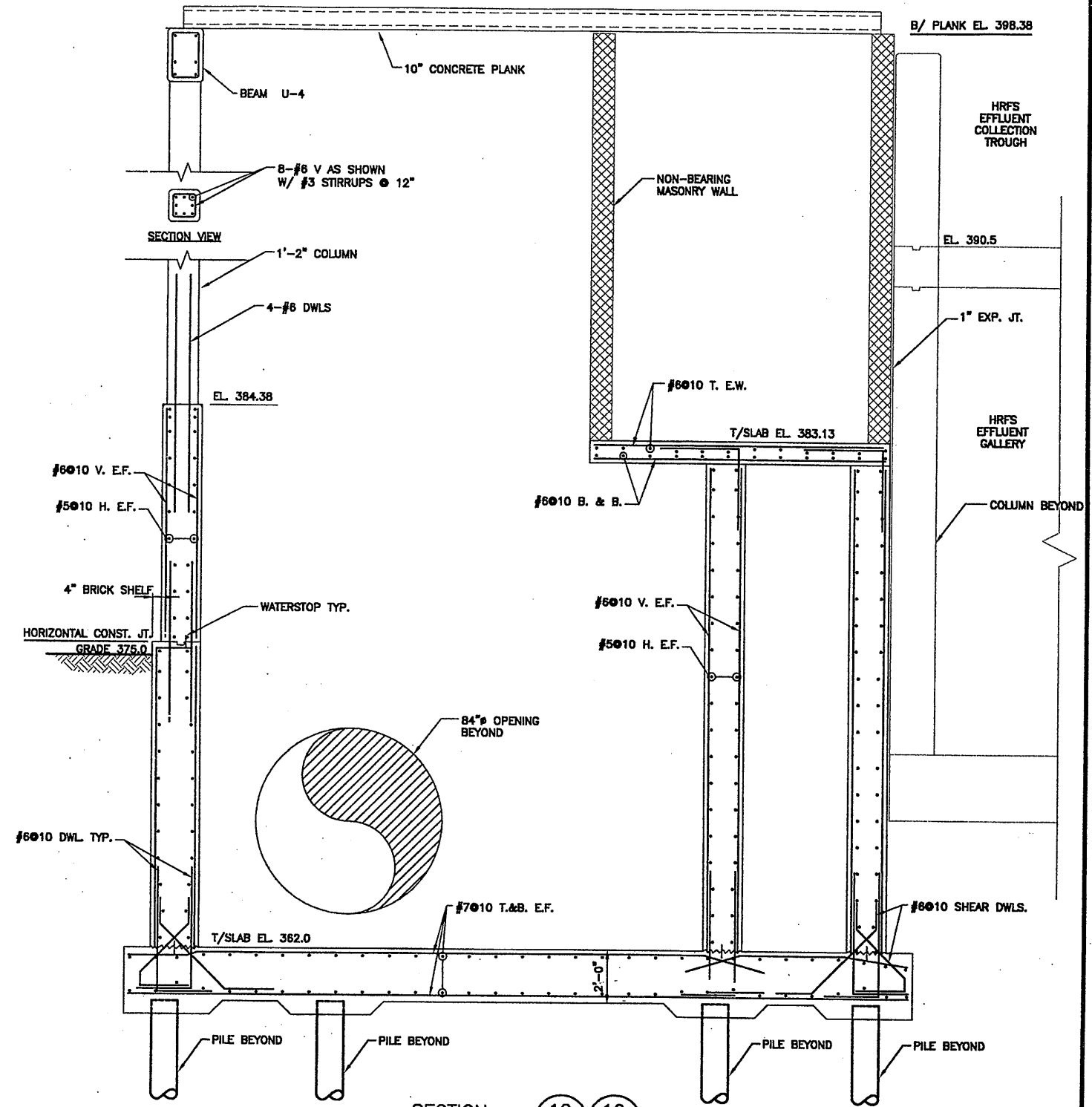
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SECTION 8 8
SCALE: 3/8"=1'-0"



SECTION 9 9
SCALE: 3/8"=1'-0"



SECTION 10 10
SCALE: 3/8"=1'-0"

Layer: ON=*, OFF=**REF*
02/01/01 S&W HCC
05503045/0659M402

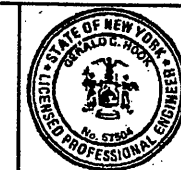
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
UV DISINFECTION/PARSHALL FLUME SECTIONS

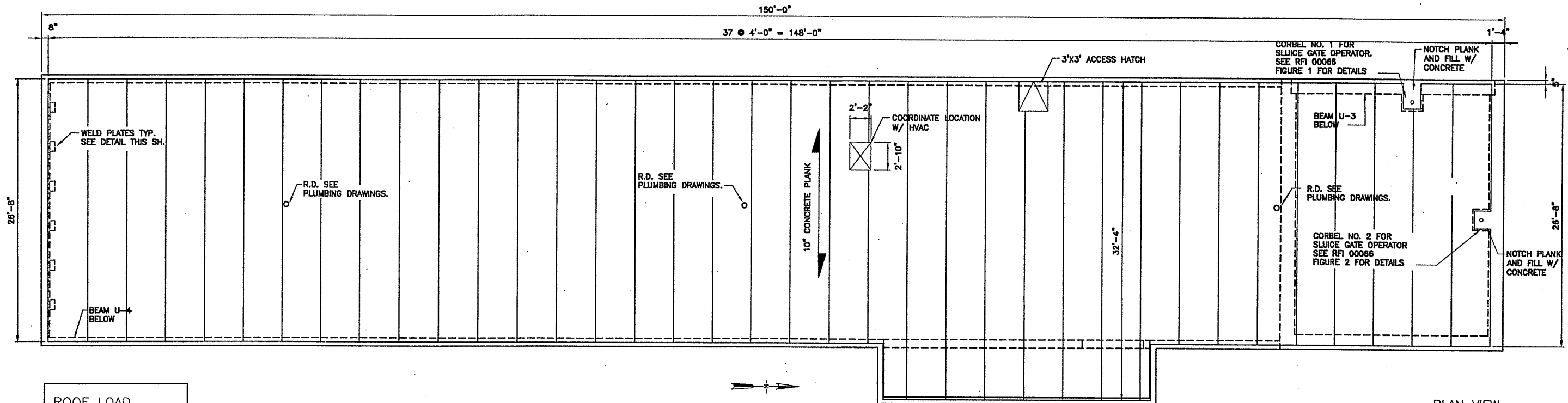


File Number
00659s406
Date
APRIL 2001
S-406

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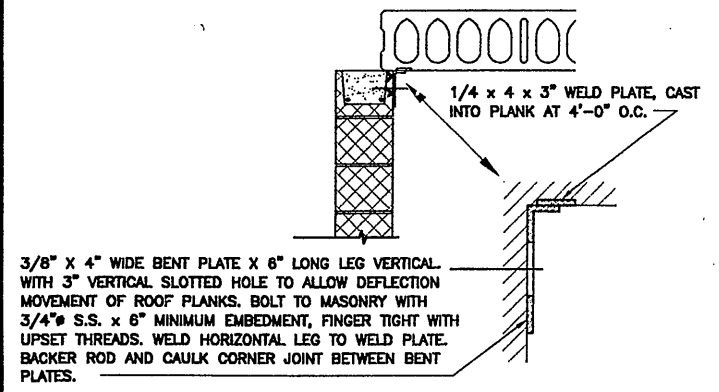
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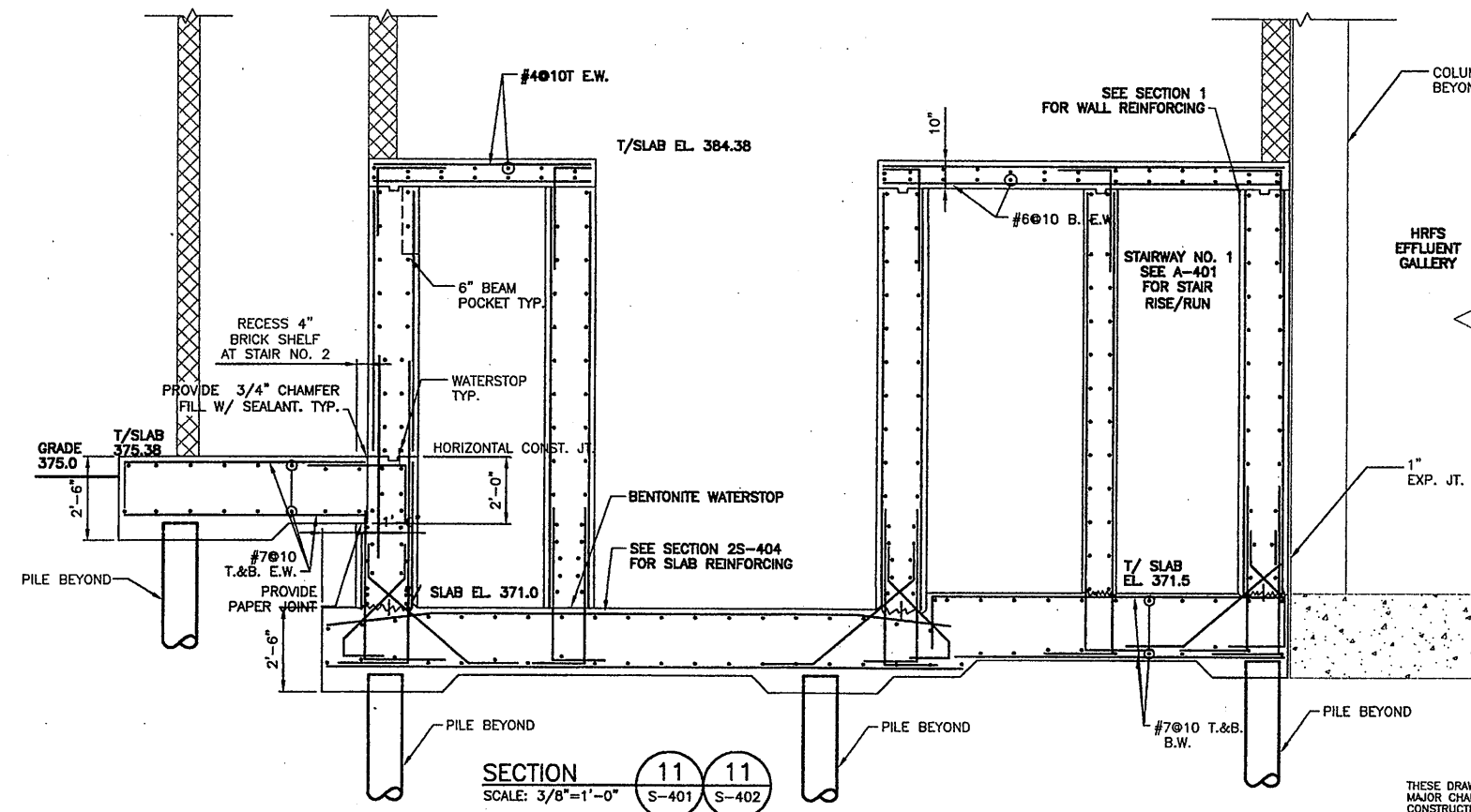


ROOF LOAD	
10 PSF SUPERIMPOSED DEAD LOAD	
40 PSF SNOW LOAD	
5 PSF RAIN SURCHARGE	
1K CONCENTRATED LOAD AT CENTER OF EACH PLANK	

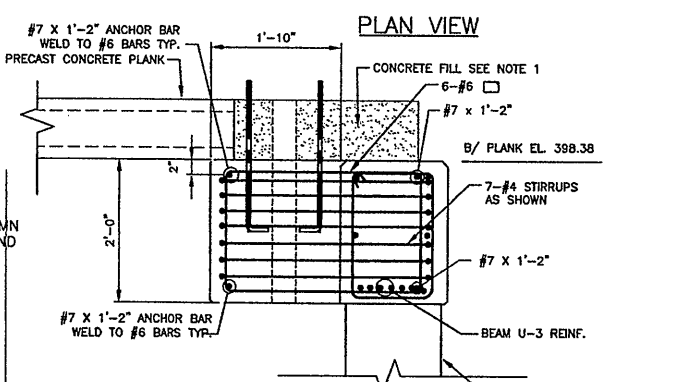
ROOF PLAN
SCALE: 3/16" = 1'-0"



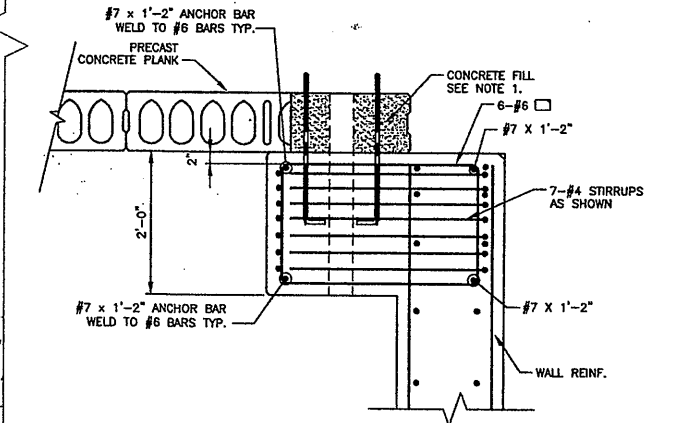
DETAIL @ END MASONRY WALL
SCALE: 3/4" = 1'-0"



SECTION 11-11
SCALE: 3/8" = 1'-0"



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



CORBEL 2 DETAILS
SECTION VIEW SCALE: 3/4" = 1'-0"

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1
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Drawn by: MJL
Checked by: DMH

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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
U.V. DISINFECTION
ROOF PLAN AND MISCELLANEOUS DETAILS

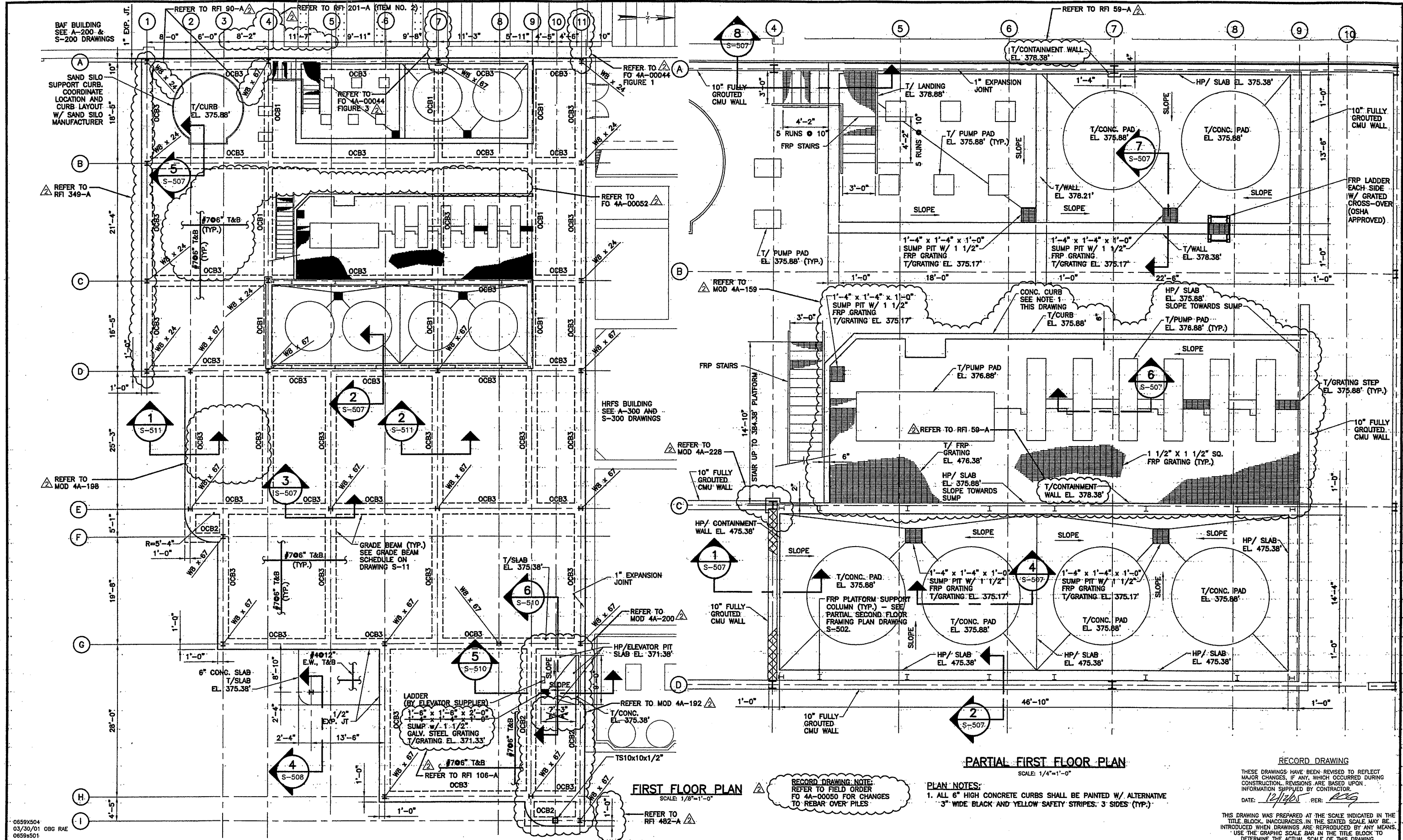


File Number: 00659
Date: APRIL 2001
S-407

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STRUCTURAL



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

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

RECORD DRAWING NOTE:
REFER TO FIELD ORDER
FO 4A-00050 FOR CHANGES
TO REBAR OVER PILES

PLAN NOTES:
1. ALL 6" HIGH CONCRETE CURBS SHALL BE PAINTED W/ ALTERNATIVE
"3" WIDE BLACK AND YELLOW SAFETY STRIPES" 3 SIDES (TYP.)

RECORD DRAWING
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DATE: 12/1/05 PER: RCG

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INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS.
USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO
DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

0659X504
3/30/01 OBG RAE
0659X501

1/8"=1'-0"	0	8	16
1/4"=1'-0"	0	4	8

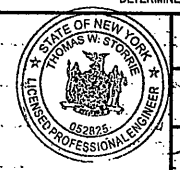
No.	Date	Revisions	Init
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1	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
Designed by: CTV
Drawn by: RAE
Checked by: TWS

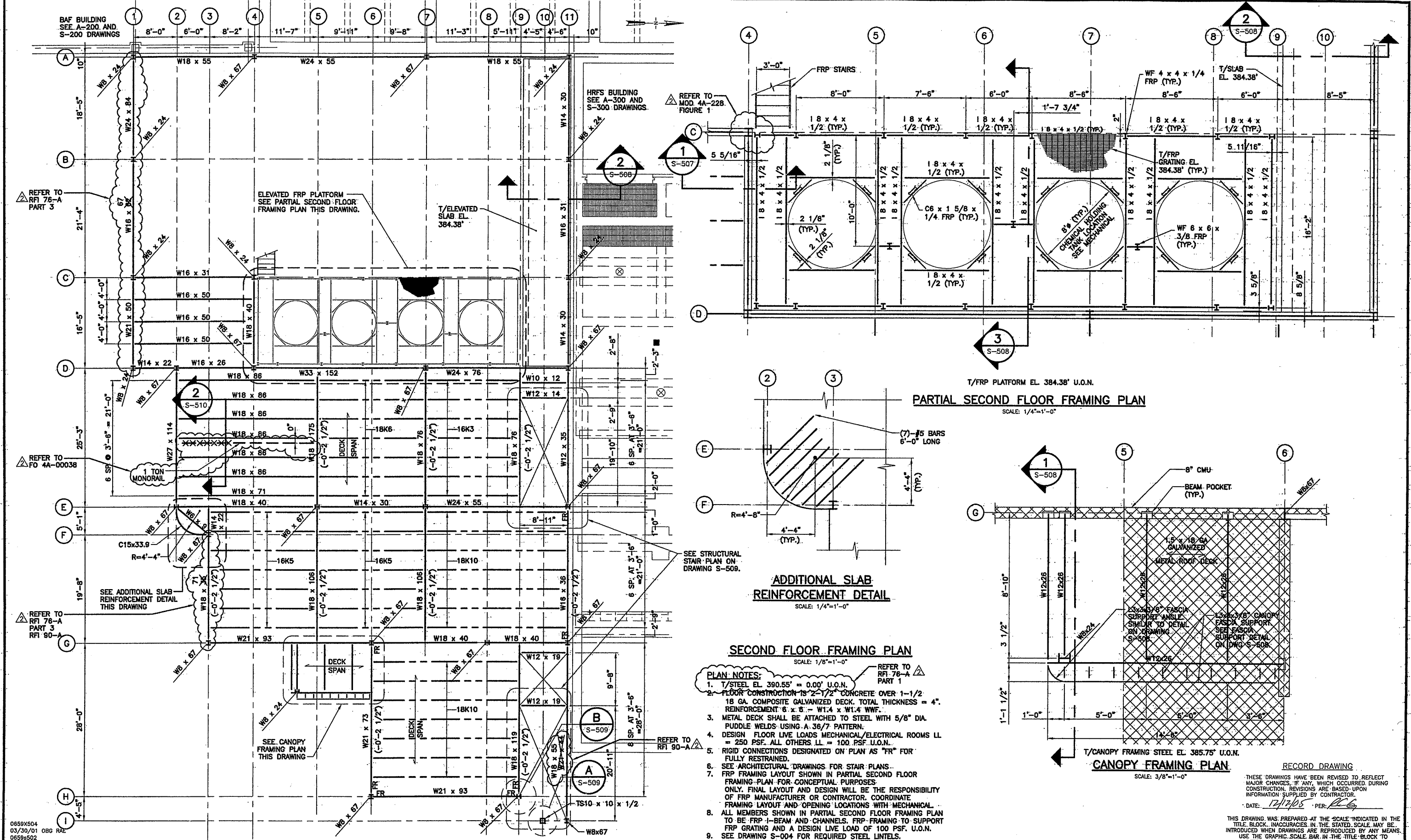


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

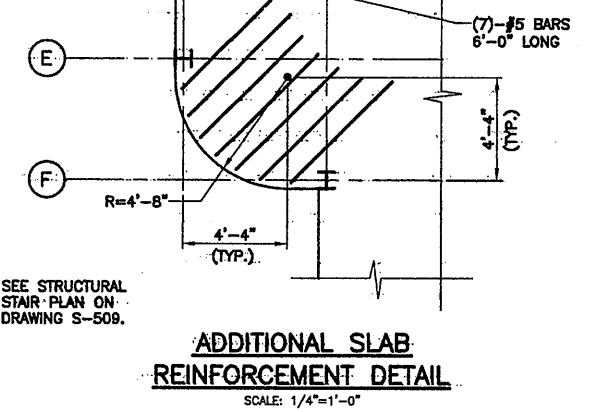
**OPERATIONS CENTER
FIRST FLOOR PLAN**
STRUCTURAL



File Number: 00659
Date: APRIL 2001
S-501

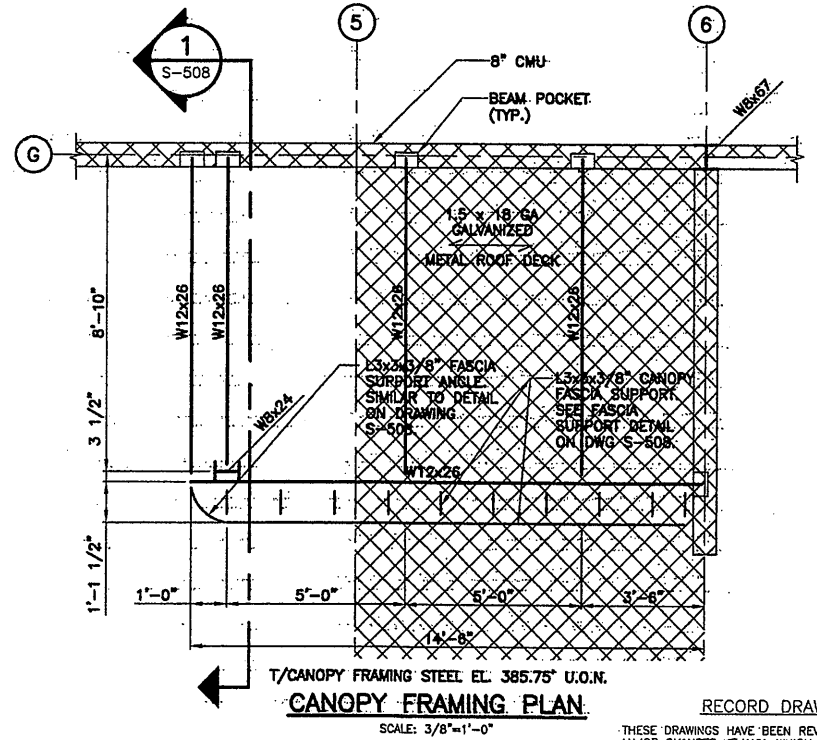


PARTIAL SECOND FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



SECOND FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"

- PLAN NOTES:**
1. T/STEEL EL. 390.55' = 0.00' U.O.N.
 2. FLOOR CONSTRUCTION IS 2-1/2" CONCRETE OVER 1-1/2" 18 GA. COMPOSITE GALVANIZED DECK. TOTAL THICKNESS = 4". REINFORCEMENT: 6" x 8" = W14 x W14 WWF.
 3. METAL DECK SHALL BE ATTACHED TO STEEL WITH 5/8" DIA. PUDDLE WELDS USING A 36/7 PATTERN.
 4. DESIGN FLOOR LIVE LOADS MECHANICAL/ELECTRICAL ROOMS LL = 250 PSF. ALL OTHERS LL = 100 PSF U.O.N.
 5. RIGID CONNECTIONS DESIGNATED ON PLAN AS "FR" FOR FULLY RESTRAINED.
 6. SEE ARCHITECTURAL DRAWINGS FOR STAIR PLANS.
 7. FRP FRAMING LAYOUT SHOWN IN PARTIAL SECOND FLOOR FRAMING PLAN FOR CONCEPTUAL PURPOSES ONLY. FINAL LAYOUT AND DESIGN WILL BE THE RESPONSIBILITY OF FRP MANUFACTURER OR CONTRACTOR. COORDINATE FRAMING LAYOUT AND OPENING LOCATIONS WITH MECHANICAL.
 8. ALL MEMBERS SHOWN IN PARTIAL SECOND FLOOR FRAMING PLAN TO BE FRP I-BEAM AND CHANNELS. FRP FRAMING TO SUPPORT FRP GRATING AND A DESIGN LIVE LOAD OF 100 PSF U.O.N.
 9. SEE DRAWING S-004 FOR REQUIRED STEEL LINTELS.



RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/17/05 PER: RAE

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1/8"=1'-0"	0	8	16
1/4"=1'-0"	0	4	8
3/8"=1'-0"	0	3	6

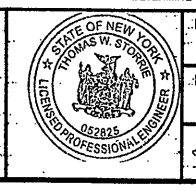
No.	Date	Revisions	Init
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1	10/31/05	AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
Designed by: CTV
Drawn by: RAE
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

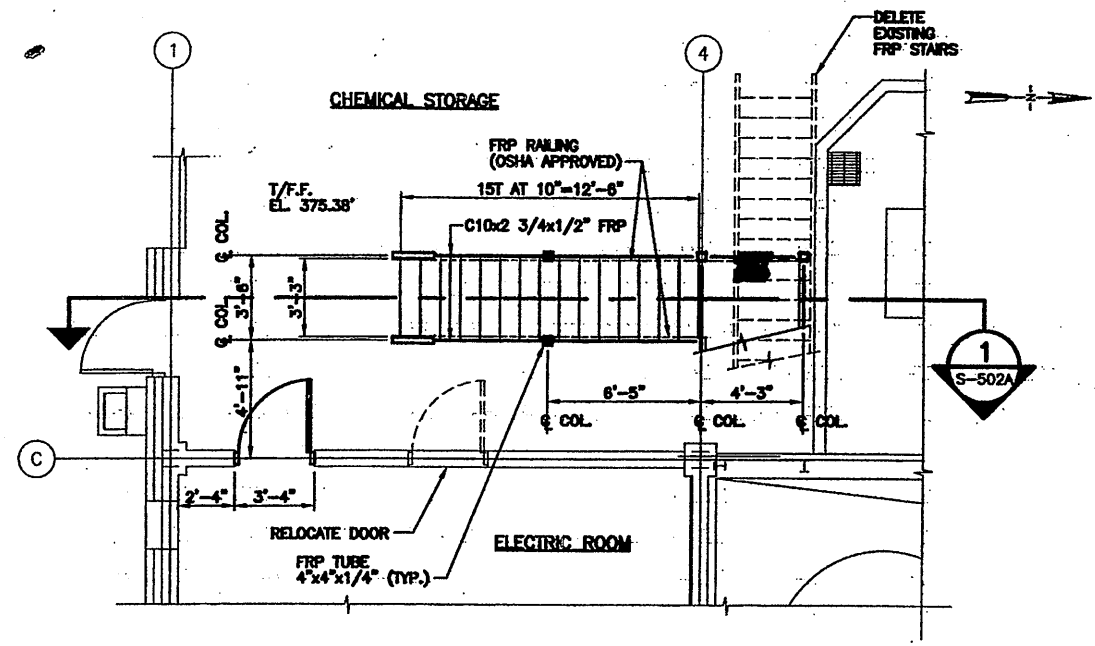
**OPERATIONS CENTER
SECOND FLOOR FRAMING PLAN**
STRUCTURAL



File Number: 00659
Date: APRIL 2001
S-502

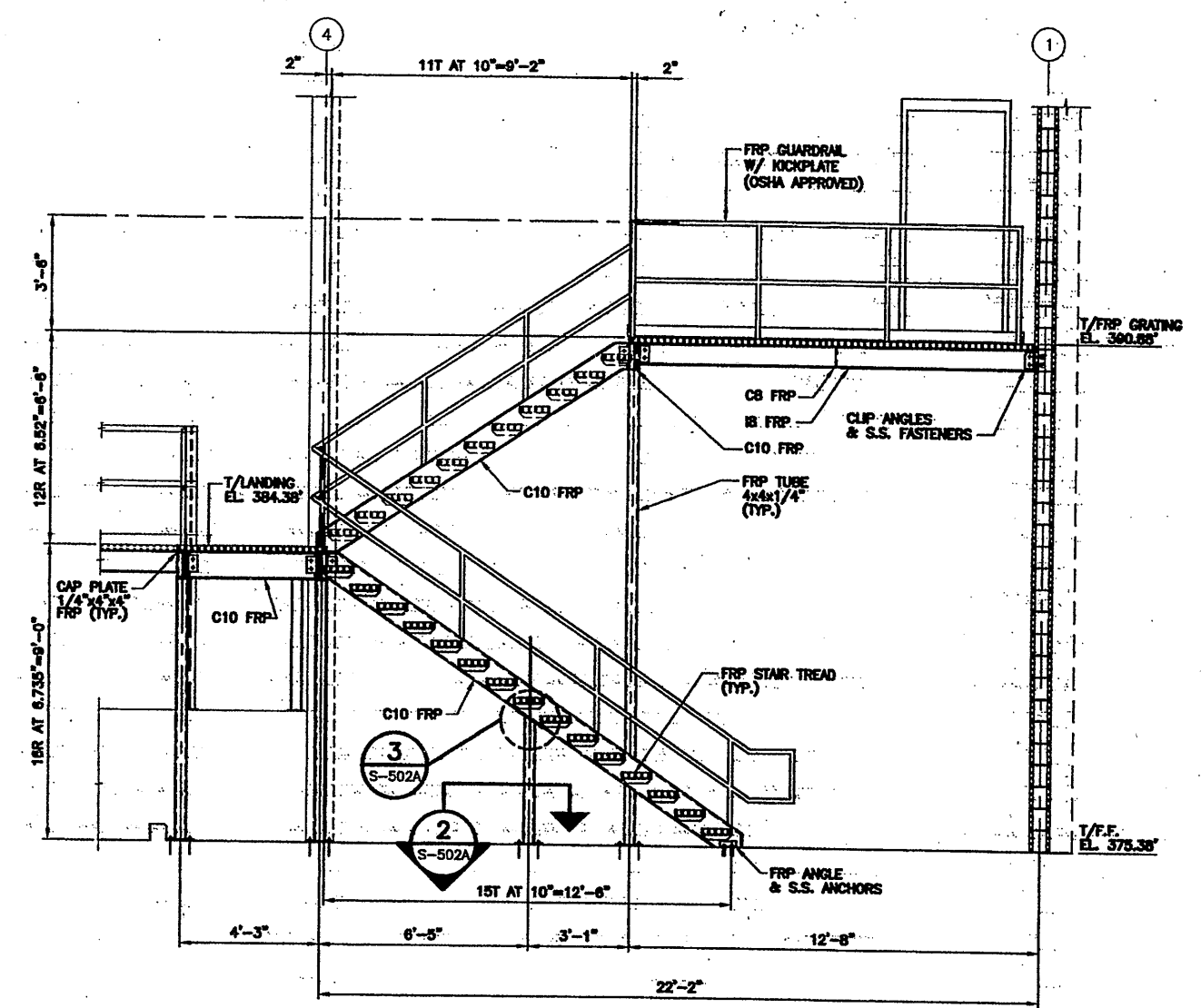
0659X504
03/30/01 OBG RAE
0659x502

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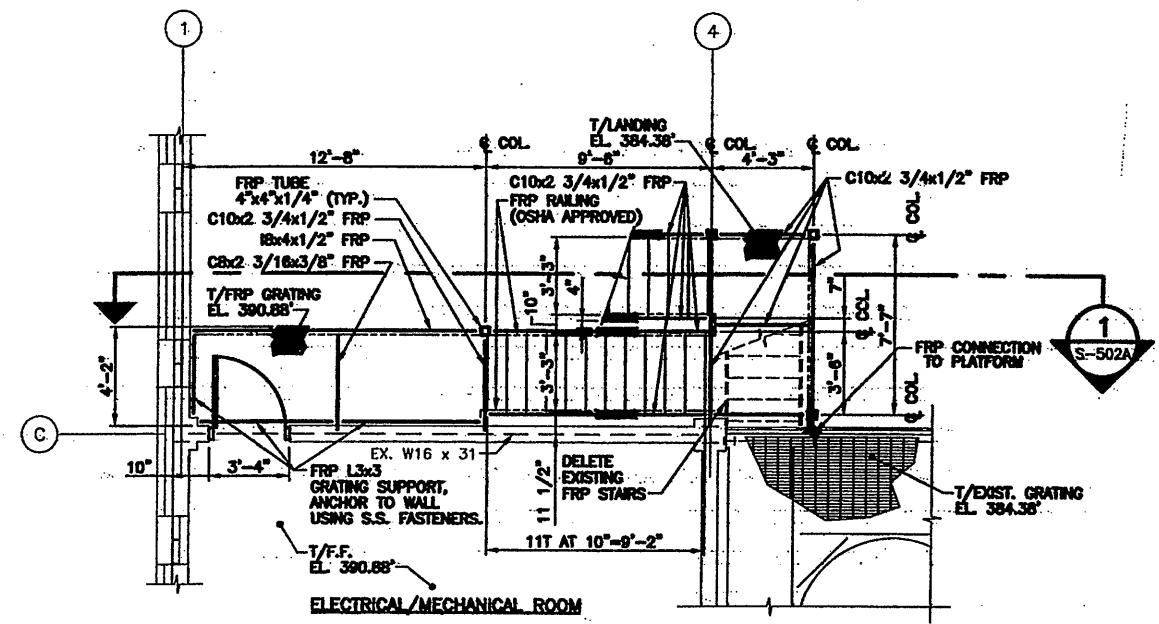


EXISTING FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"

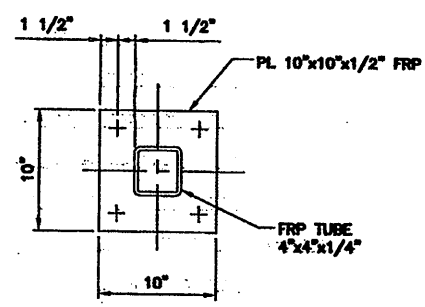
- PLAN NOTES:**
1. DELETE EXISTING FRP STAIRS SHOWN ON CONTRACT DRAWINGS TO EXIST FRP PLATFORM.
 2. LL = 100 PSF
 3. COORDINATE WITH FRP PLATFORM.



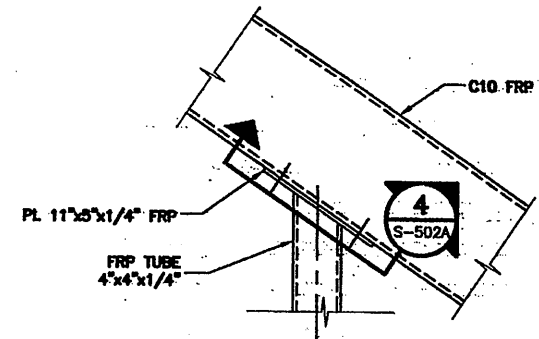
SECTION 1
SCALE: 3/8"=1'-0"



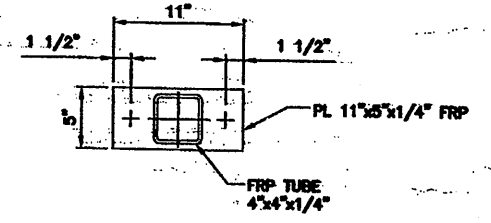
EXISTING SECOND FLOOR PLAN
SCALE: 1/4"=1'-0"



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



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



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

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

DATE: 12/12/05 PER: RCG

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11/24/02, 080 RAE
0659/502A

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No.	Date	Revisions	Init
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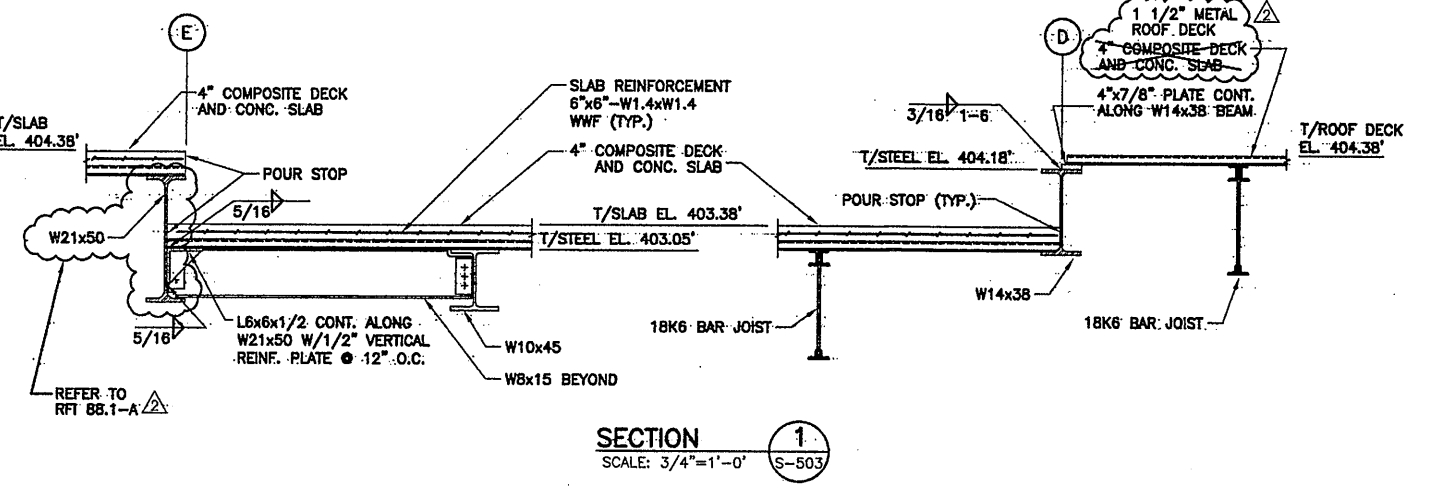
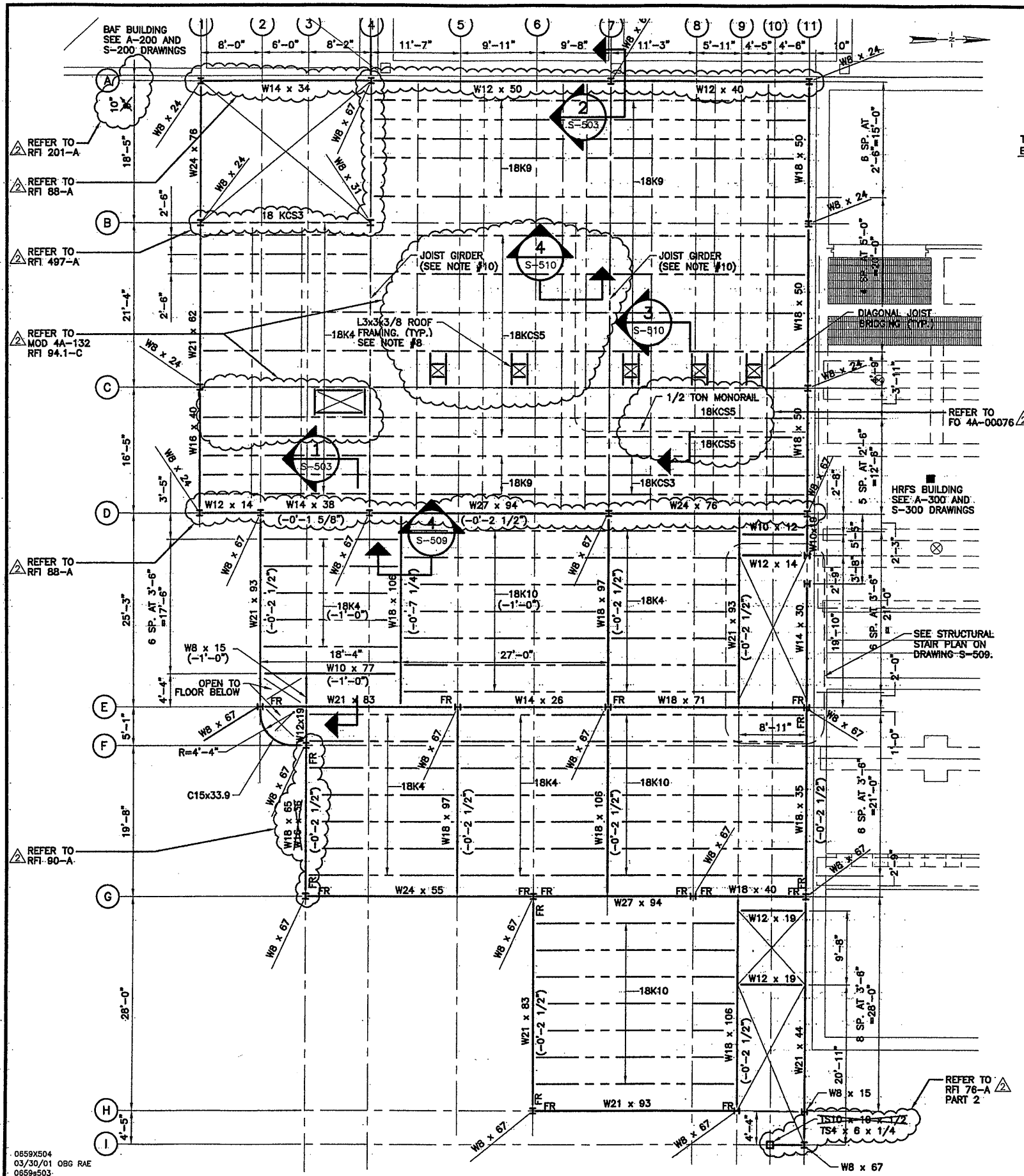
In charge of: TWS
Designed by: PQ
Drawn by: RAE
Checked by: TWS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

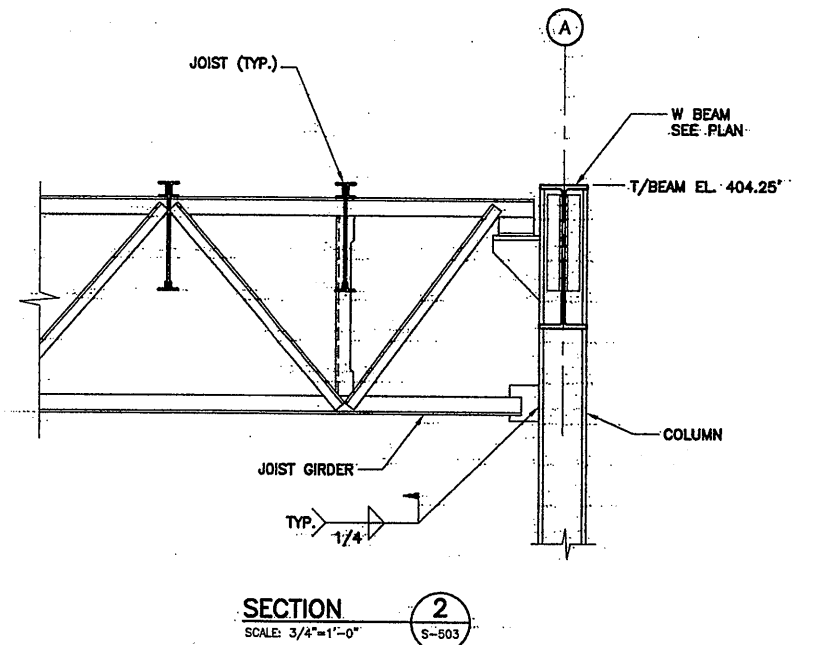
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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

OPERATIONS CENTER & CHEMICAL BLDG-C
STAIR PLANS & SECTIONS
STRUCTURAL

File Number: 00659
Date: NOV. 2002
S-502A



SECTION 1
SCALE: 3/4"=1'-0"
S-503



SECTION 2
SCALE: 3/4"=1'-0"
S-503

BAR JOIST BRIDGING REQUIREMENTS		
BAR JOIST DESIGNATION	BRIDGING	
	# OF ROWS REQUIRED	TYPE
18K4	2	BOLTED CROSS BRIDGING
18K9	4	BOLTED CROSS BRIDGING
18K10	2	BOLTED CROSS BRIDGING
18KCS3	4	BOLTED CROSS BRIDGING
18KCS5	4	BOLTED CROSS BRIDGING

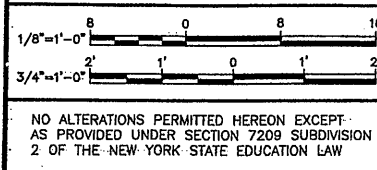
THIRD FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"

- PLAN NOTES:**
1. T/STEEL EL. 404.05' = 0.00' U.O.N.
 2. FLOOR CONSTRUCTION IS 2-1/2" CONCRETE OVER 1-1/2" 18 GA. COMPOSITE GALVANIZED DECK. TOTAL THICKNESS = 4". REINFORCEMENT 6 x 6 - W1.4 x W1.4 WWF. ROOF CONSTRUCTION IS 1-1/2" 18 GA. GALVANIZED METAL ROOF DECK.
 3. METAL DECK SHALL BE ATTACHED TO STEEL WITH 5/8" DIA. PUDDLE WELDS USING A-36/7 PATTERN.
 4. DESIGN LIVE LOADS:
FLOOR = 100 PSF U.O.N.
ROOF = 40 PSF (SNOW LOAD) U.O.N.
 5. RIGID CONNECTIONS DESIGNATED ON PLAN AS "FR" FOR FULLY RESTRAINED.
 6. SEE ARCHITECTURAL DRAWINGS FOR STAIR PLANS.
 7. TOP OF SLAB ELEVATION BETWEEN COLUMN LINES. (2)-(7) AND (D)-(E) IS 403.88'.
 8. COORDINATE ALL ROOF OPENING SIZES AND LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
 9. SEE TYPICAL PARAPET WALL FRAMING DETAIL ON DRAWING S-508.
 10. SEE JOIST GIRDER ELEVATIONS ON DRAWING S-508 FOR GIRDER DESIGN POINT LOADS & LOCATIONS.
 11. SEE DRAWING S-004 FOR REQUIRED STEEL LINTEL.

RECORD DRAWING

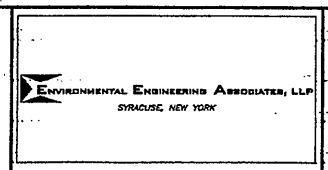
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/2/05 PER: RCG

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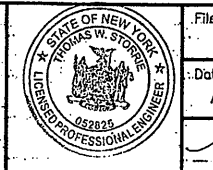
No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL AS BID	
1	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by CTV
Drawn by RAE
Checked by TWS



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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

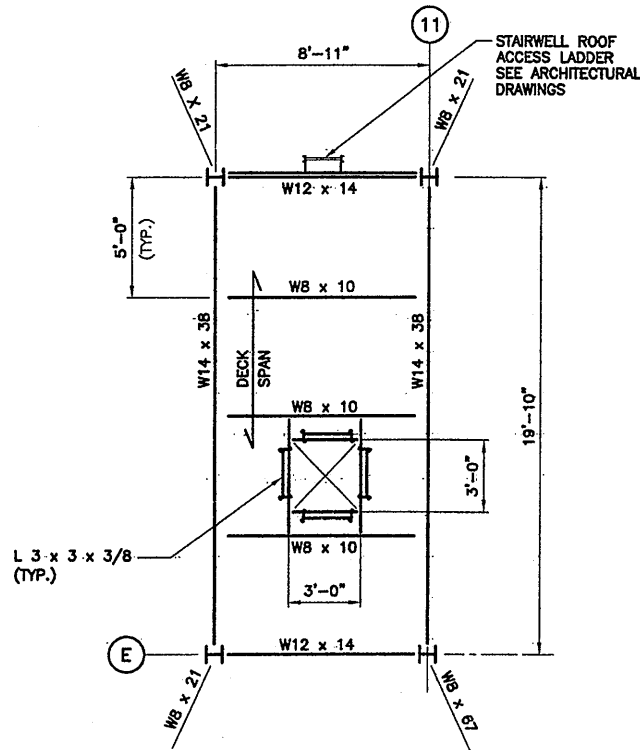
**OPERATIONS CENTER
THIRD FLOOR FRAMING PLAN**
STRUCTURAL



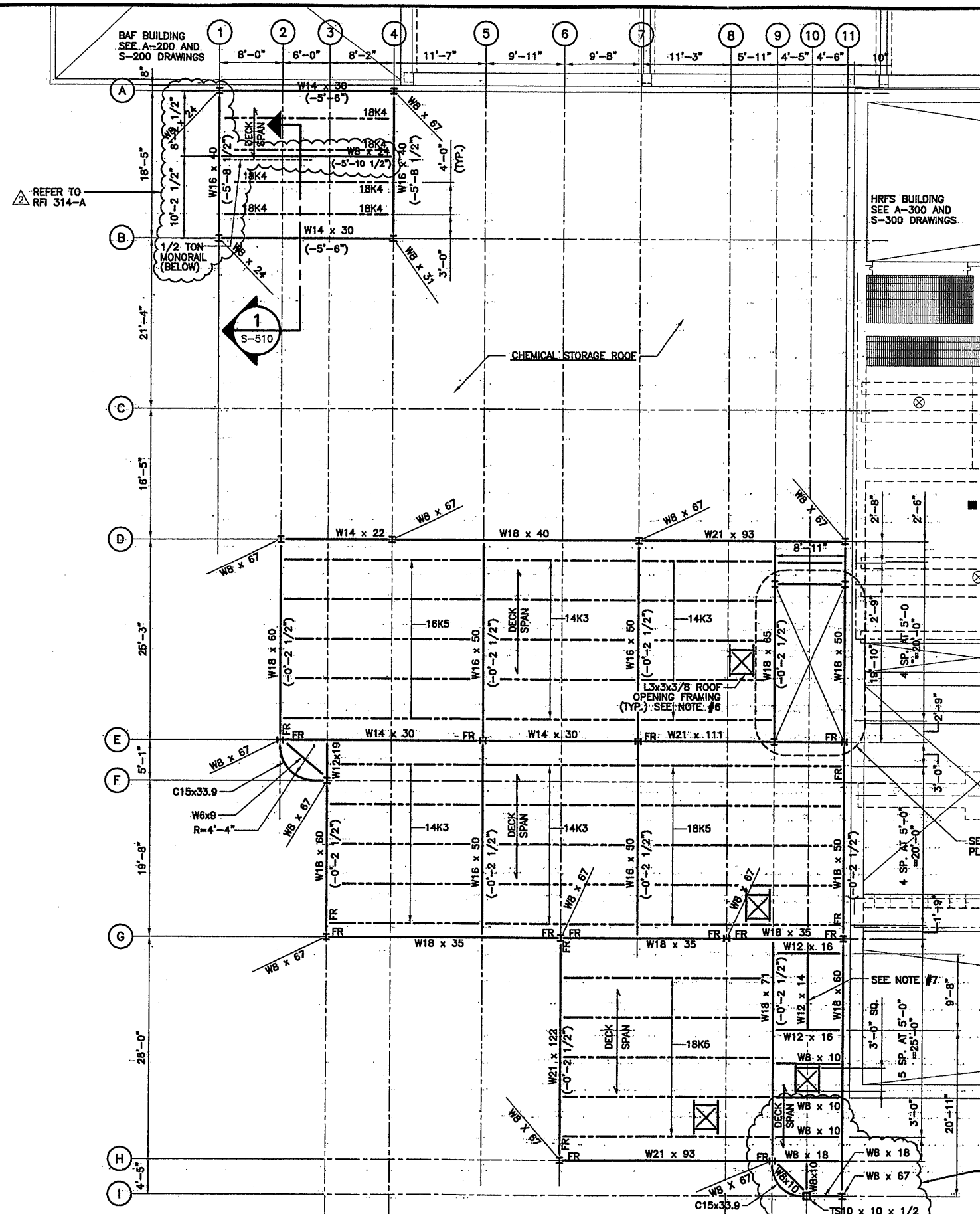
File Number 00659	Date APRIL 2001	S-503
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0659x504
03/30/01 OBG RAE
0659x503

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T/STEEL EL. 426.88' = 0.00' U.O.N.
ROOF STAIRWELL EXTENSION PLAN
 SCALE: 1/4"=1'-0"



RECORD DRAWING
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 DATE: 12/1/05 PER: RCG

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

- PLAN NOTES:**
1. T/STEEL EL. 417.75' = 0.00' U.O.N.
 2. ROOF DECK CONSTRUCTION IS 1-1/2" 18 GA. GALVANIZED METAL ROOF DECK.
 3. METAL DECK SHALL BE ATTACHED TO STEEL WITH 5/8" DIA. PUDDLE WELDS USING A 36/7 PATTERN.
 4. RIGID CONNECTIONS DESIGNATED ON PLAN AS "FR" FOR FULLY RESTRAINED.
 5. SEE ARCHITECTURAL DRAWINGS FOR STAIR PLANS.
 6. COORDINATE ALL ROOF OPENING SIZES AND LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
 7. COORDINATE ELEVATOR SUPPORT FRAMING LOCATION WITH ELEVATOR MANUFACTURER.

0659x504
 03/30/01 086 RAE
 0659x504

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1	AS BID		
2	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
 Designed by: CTV
 Drawn by: RAE
 Checked by: TWS

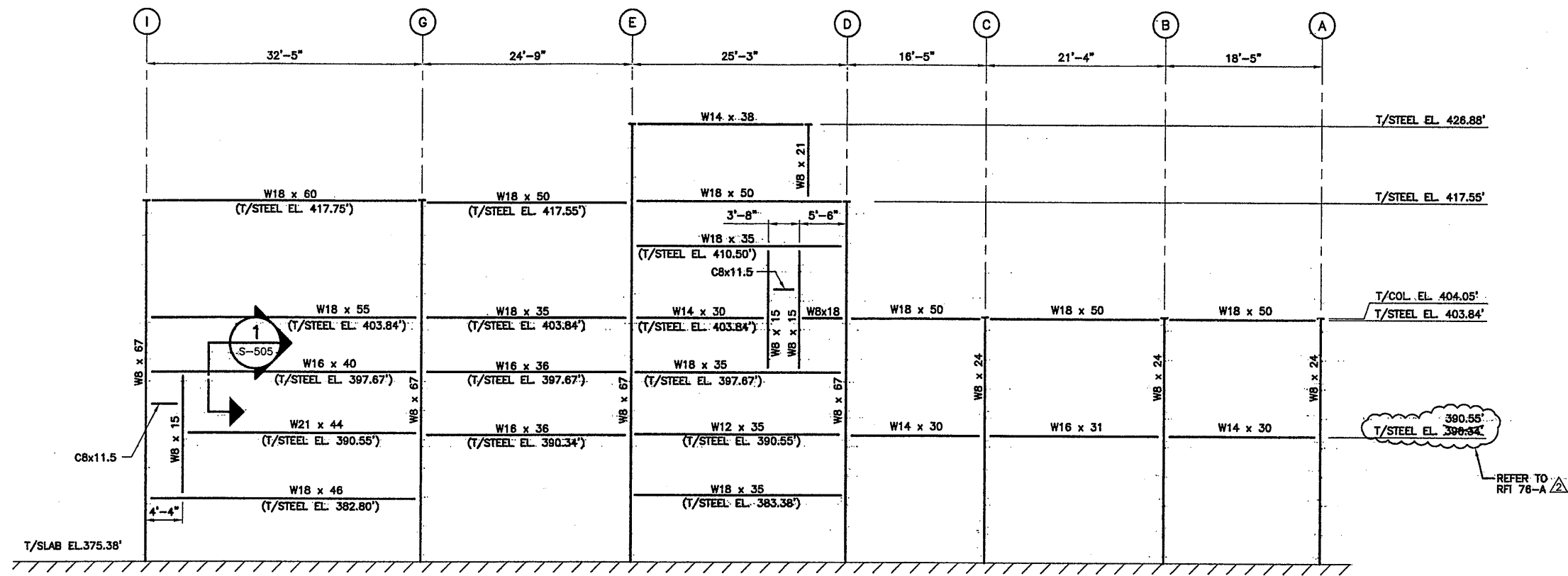


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 METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
 STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**OPERATIONS CENTER
 ROOF FRAMING PLAN**
 STRUCTURAL

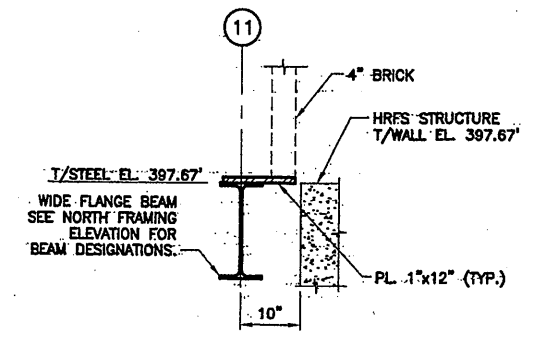
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 Date: APRIL 2001
 S-504



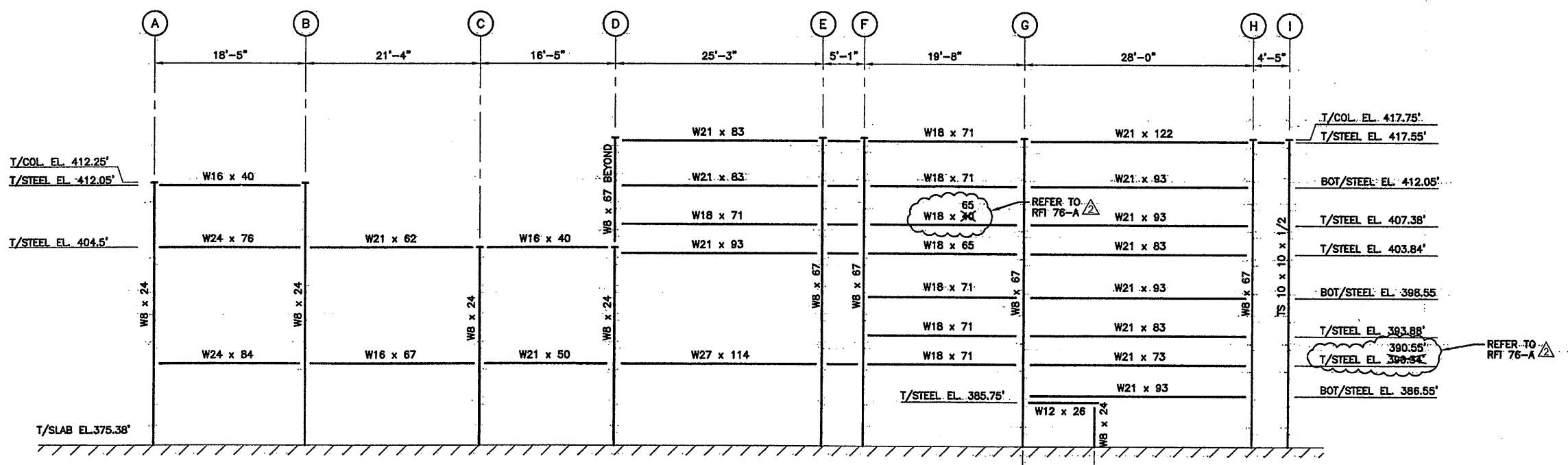
NORTH FRAMING ELEVATION

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



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

SECTION NOTES:
1. PROVIDE A STEEL PLATE 3/8" x 15" BRICK SHELF CONTINUOUS WITH T/PLATE EL. 397.75" IN 10" CMU WALL ALONG COLUMN LINE (1) BETWEEN LINES (A) & (D).



SOUTH FRAMING ELEVATION

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

RECORD DRAWING

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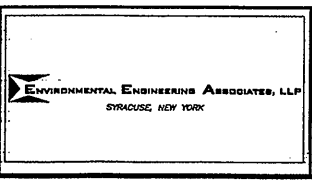
03/30/01 OBG RAE
0659a505

1/8"=1'-0"
3/4"=1'-0"

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of TWS
Designed by CTV
Drawn by RAE
Checked by TWS

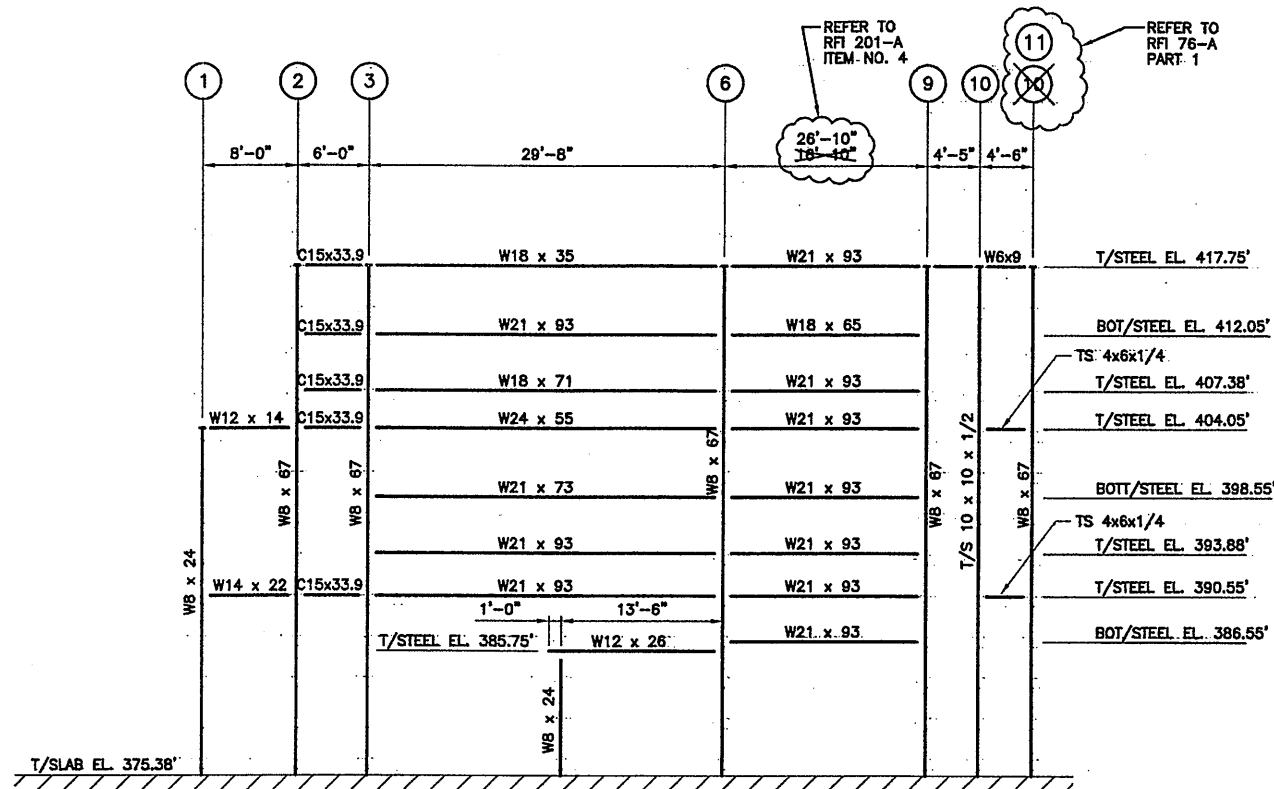


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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**OPERATIONS CENTER
FRAMING ELEVATIONS**
STRUCTURAL

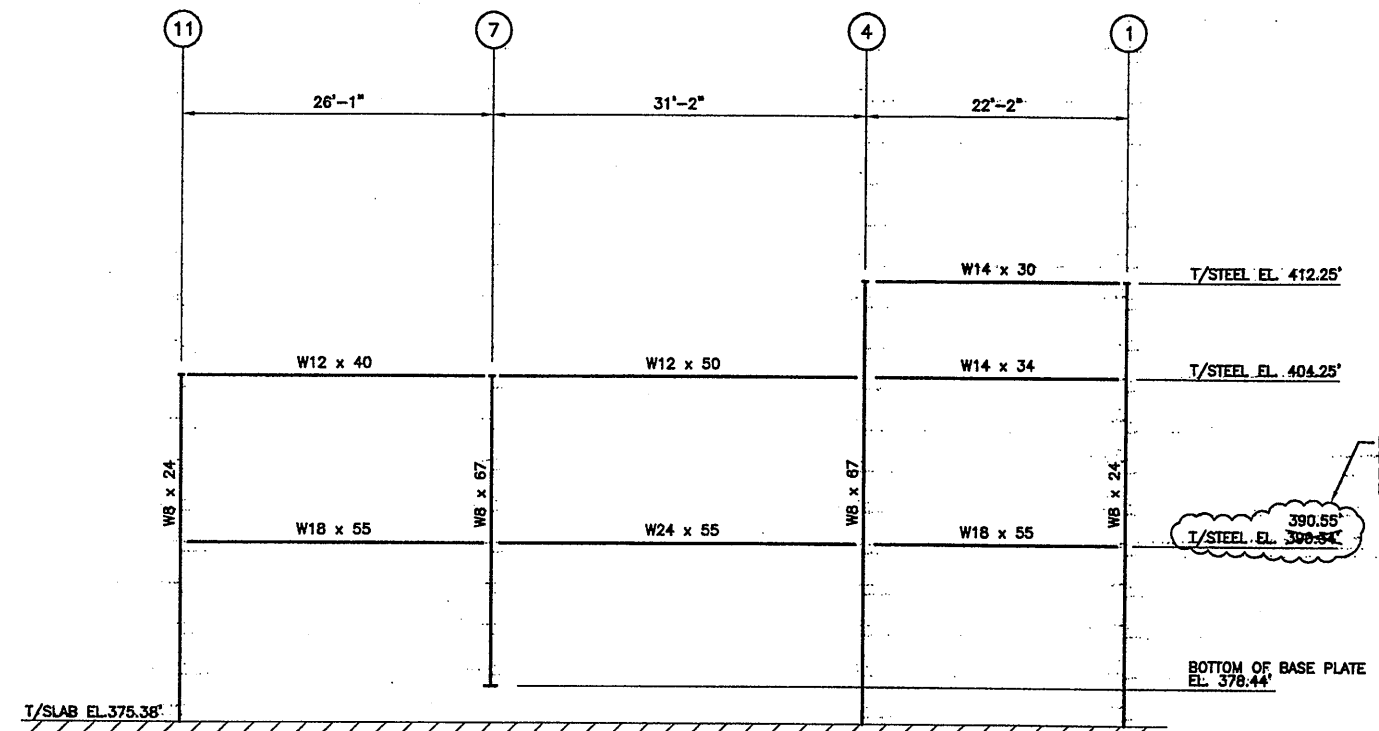


File Number: 00659
Date: APRIL 2001
S-505



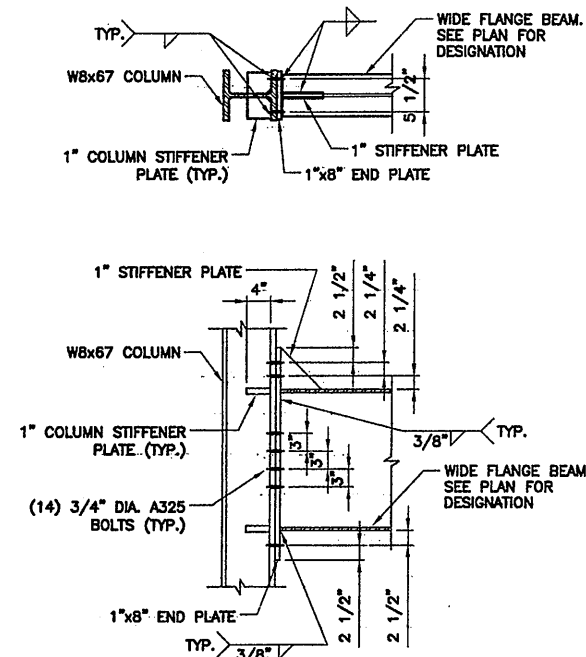
EAST FRAMING ELEVATION

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



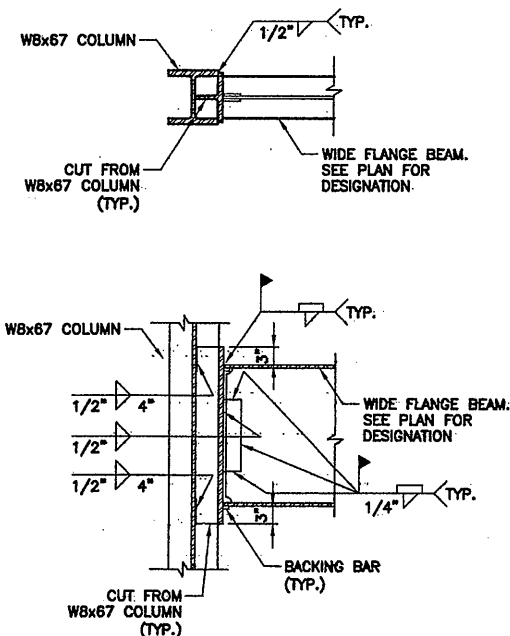
WEST FRAMING ELEVATION

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



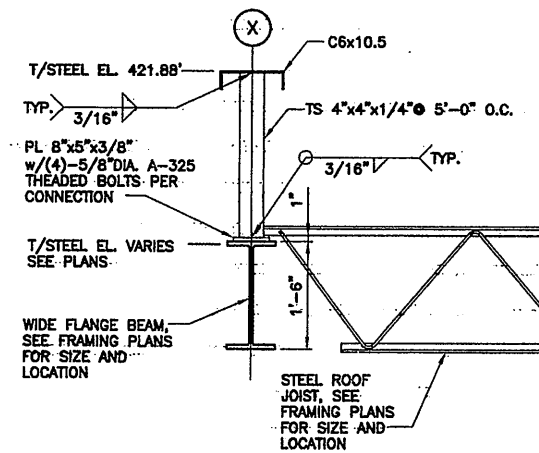
BEAM - COLUMN FLANGE MOMENT CONNECTION

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



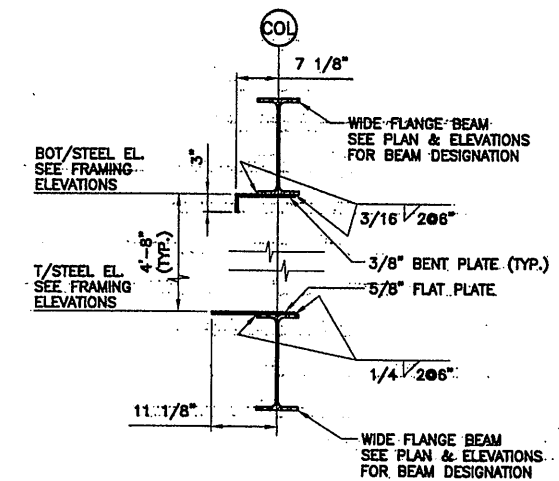
BEAM - COLUMN WEB MOMENT CONNECTION

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



TYPICAL PARAPET WALL FRAMING DETAIL

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



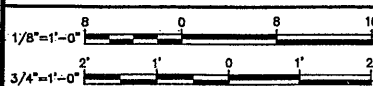
TYPICAL WINDOW FRAMING DETAIL

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

RECORD DRAWING

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0659x506



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
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2	10/31/05	RECORD DRAWING	RCG

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Drawn by RAE
Checked by TWS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

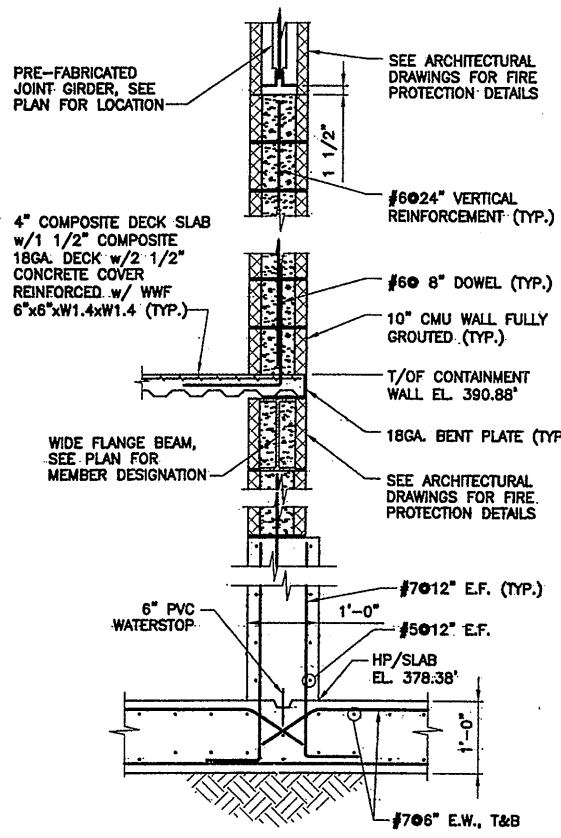
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
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STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**OPERATIONS CENTER
FRAMING ELEVATIONS**
STRUCTURAL

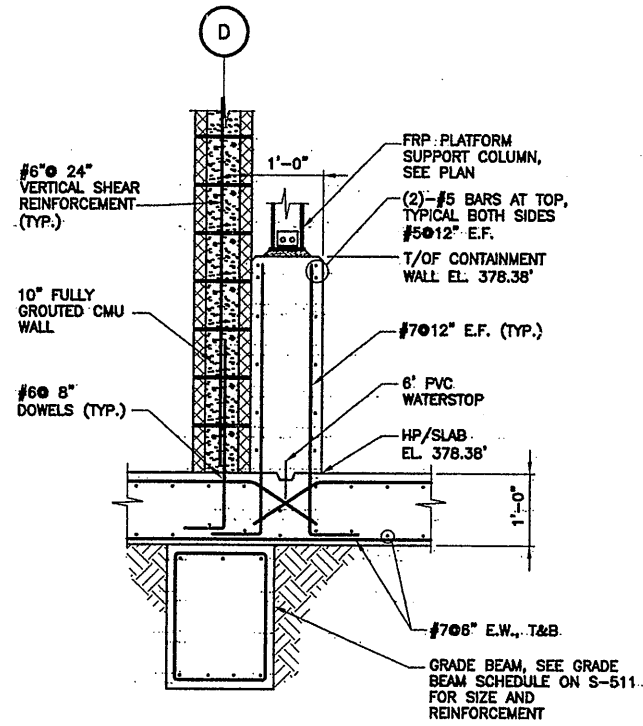


File Number
00659
Date
APRIL 2001

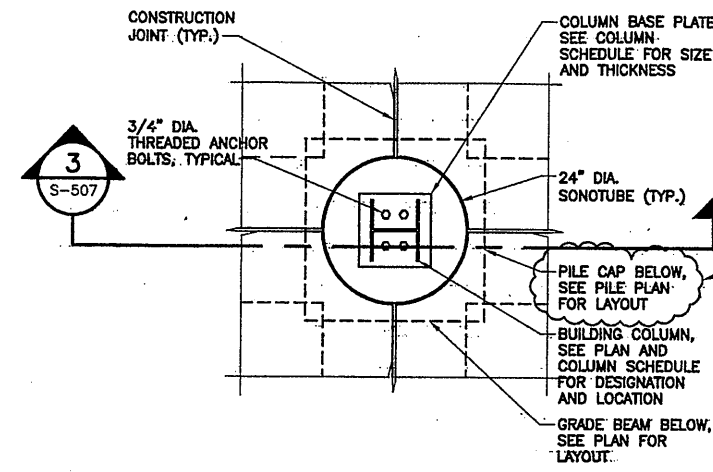
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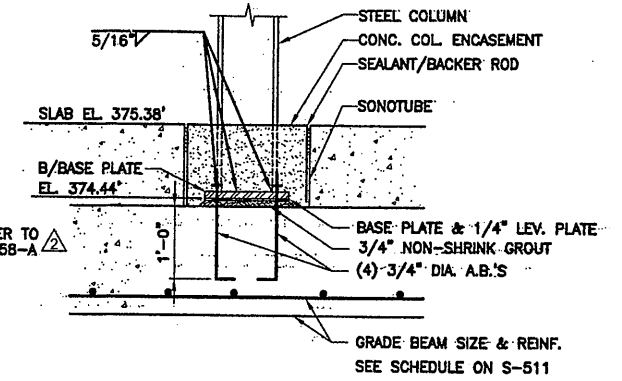
SECTION 1
SCALE: 3/4"=1'-0"
S-501



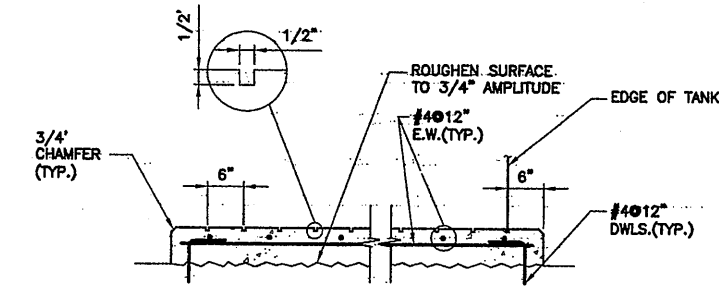
SECTION 2
SCALE: 3/4"=1'-0"
S-501



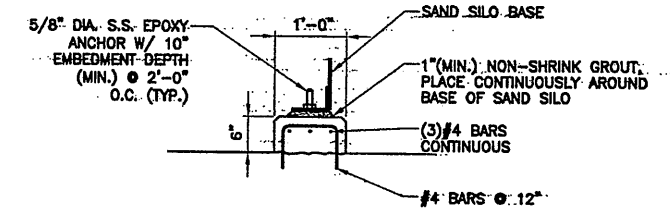
TYPICAL COLUMN BASE PLATE DETAIL
SCALE: 3/4"=1'-0"



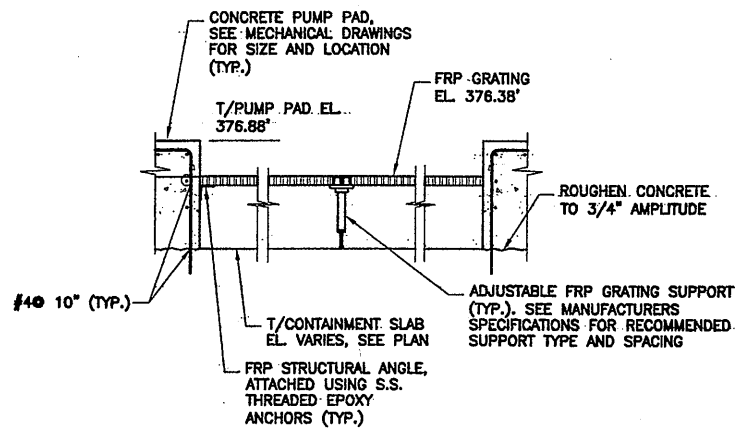
INT. COL. AT FOUNDATION
SCALE: 3/4"=1'-0"
S-501



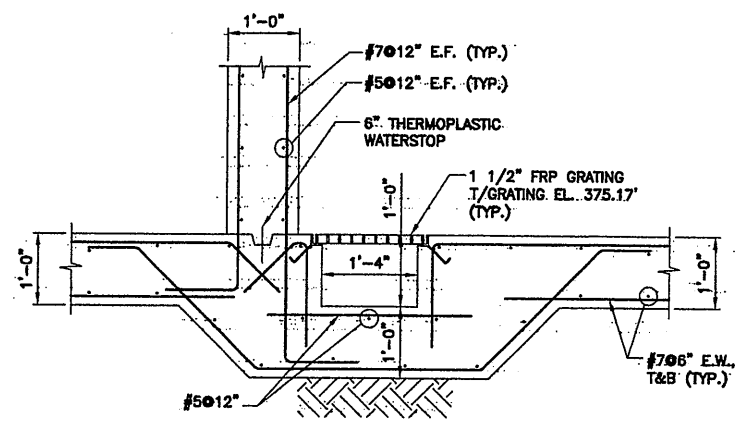
TANK PAD SECTION 4
SCALE: 3/4"=1'-0"
S-501



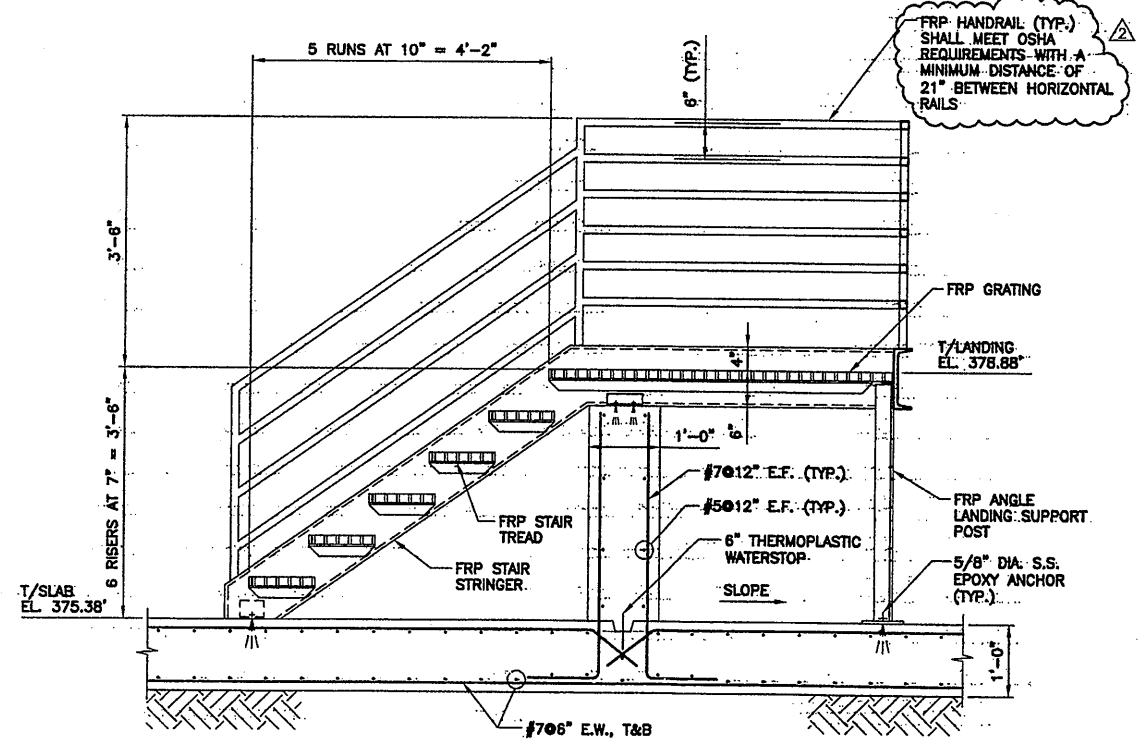
SECTION 5
SCALE: 3/4"=1'-0"
S-501



SECTION 6
SCALE: 3/4"=1'-0"
S-501



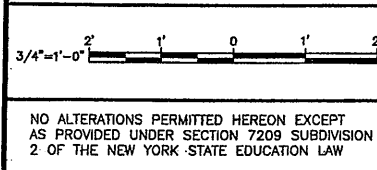
SECTION 7
SCALE: 3/4"=1'-0"
S-501



SECTION 8
SCALE: 3/4"=1'-0"
S-501

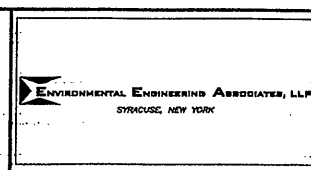
03/30/01 OBG RAE
.0659557

RECORD DRAWING
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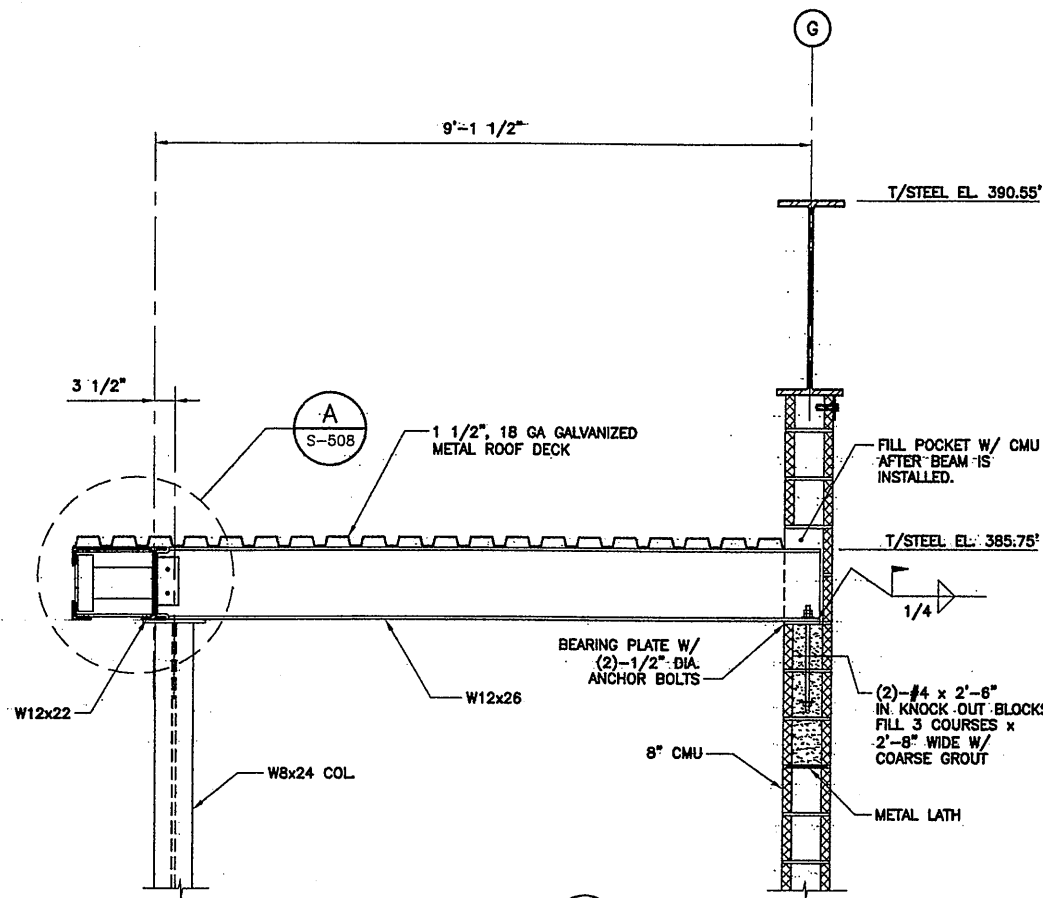
In-charge of: TWS
Designed by: CTV
Drawn by: RAE
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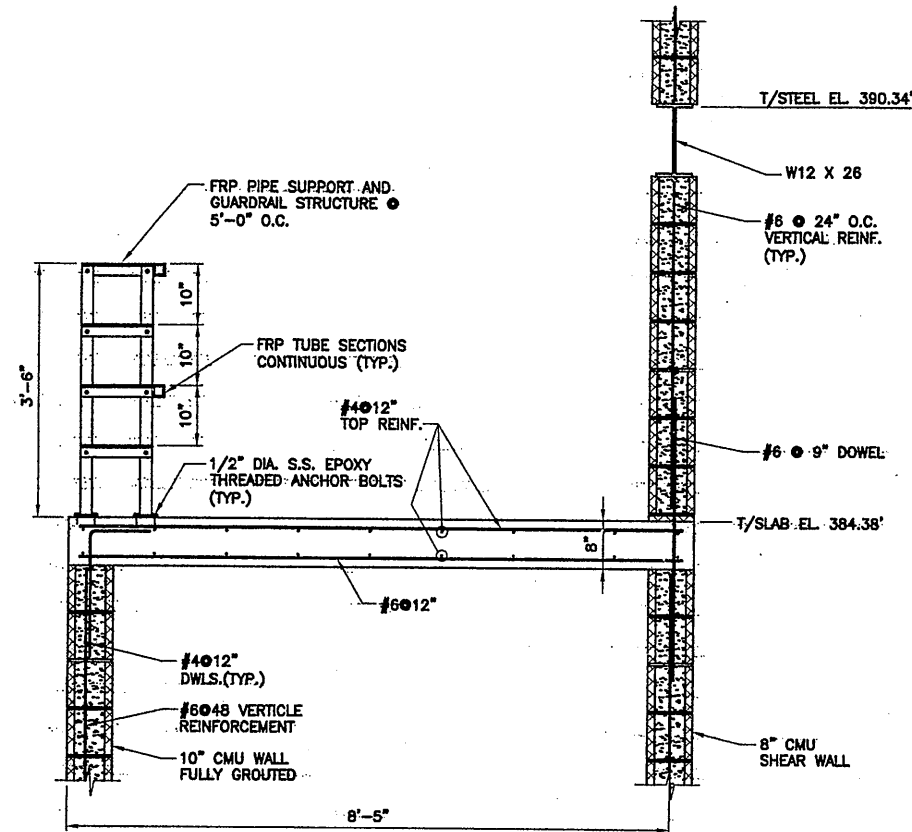
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
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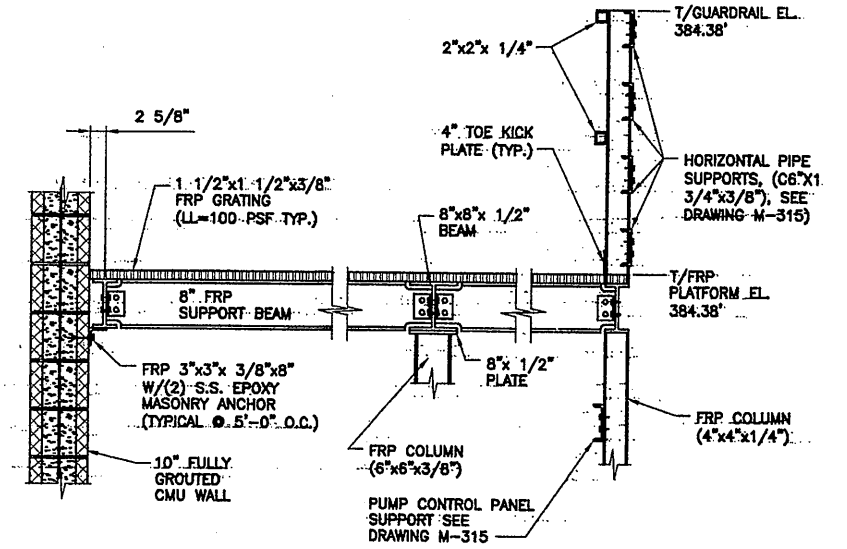
File Number: 00659
Date: APRIL 2001
S-507



SECTION 1
SCALE: 3/4"=1'-0" S-502

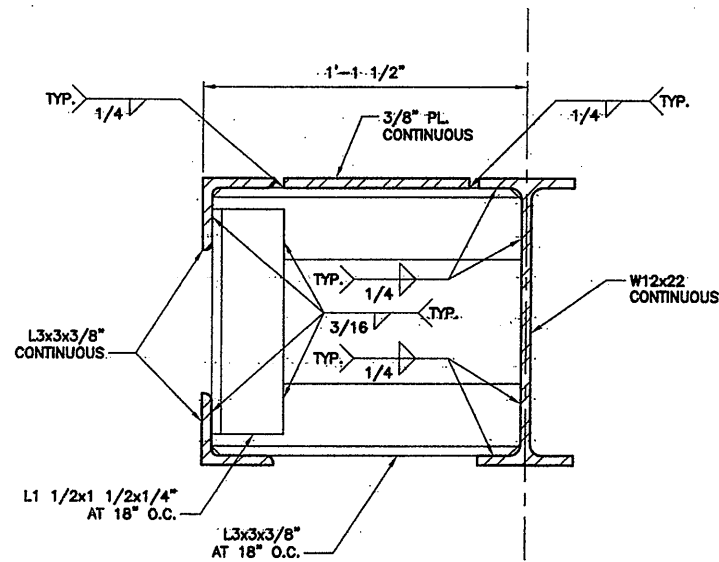


SECTION 2
SCALE: 3/4"=1'-0" S-502



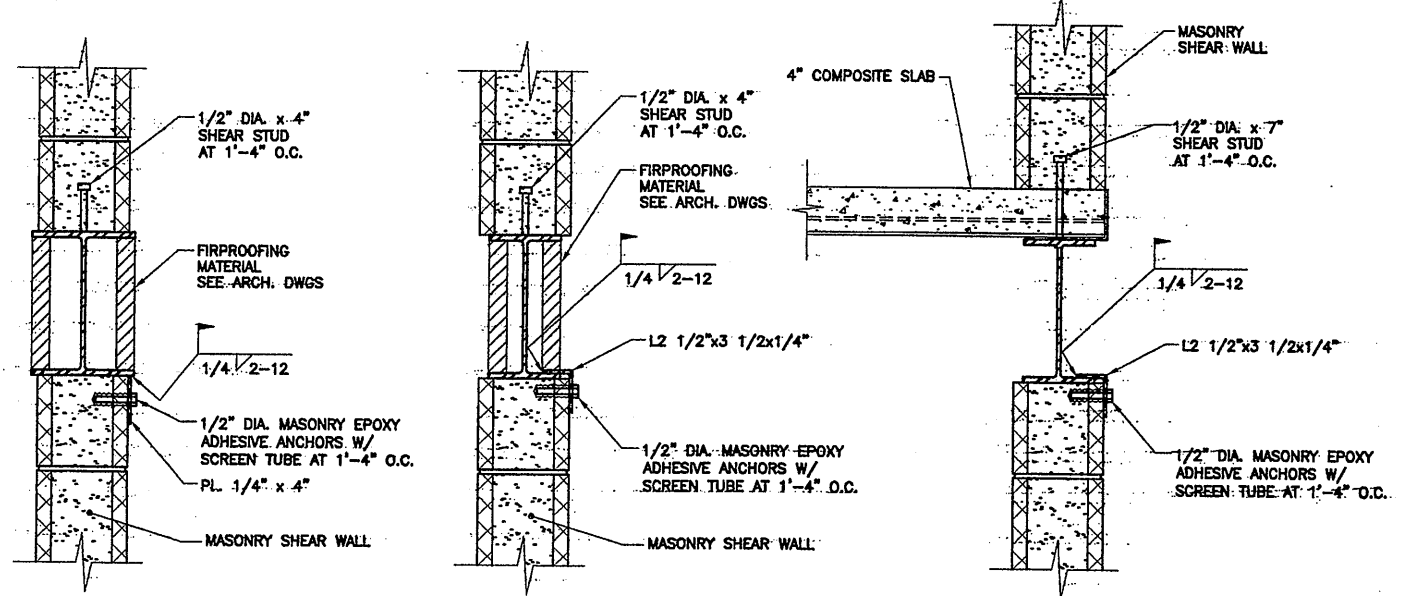
SECTION 3
SCALE: 3/4"=1'-0" S-502

- SECTION NOTES:**
1. ALL MEMBERS SHOWN SHALL BE FRP STRUCTURAL MEMBERS. DESIGN PLATFORM LL=100 PSF. MECHANICAL EQUIPMENT.
 2. PLATFORM DESIGN LL=100 PSF. MECHANICAL EQUIPMENT AND PIPE SUPPORTS SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR FOR LOCATIONS AND LOADS.
 3. SECTION SHOWN FOR CONCEPTUAL DESIGN PURPOSES ONLY. FINAL LAYOUT DESIGN WILL BE THE RESPONSIBILITY OF FIBERGLASS REINFORCED PLASTIC MANUFACTURER OR CONTRACTOR.
 4. ALL CONNECTIONS SHALL BE MADE WITH STRUCTURAL STAINLESS STEEL THREADED BOLTS.



FASCIA SUPPORT DETAIL
SCALE: 3"=1'-0" S-508

- DETAIL NOTES:**
1. COORDINATE FINAL DIMENSIONS W/ ARCHITECTURAL DRAWINGS.



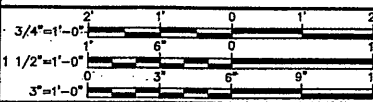
TYPICAL CMU-BEAM SHEAR CONNECTION DETAILS
SCALE: 1 1/2"=1'-0"

RECORD DRAWING

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03/30/01 OBG RAE
0659s508



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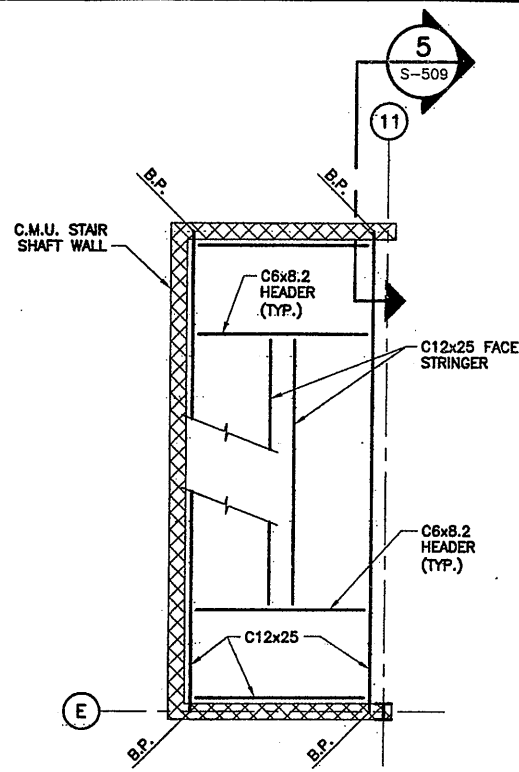
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

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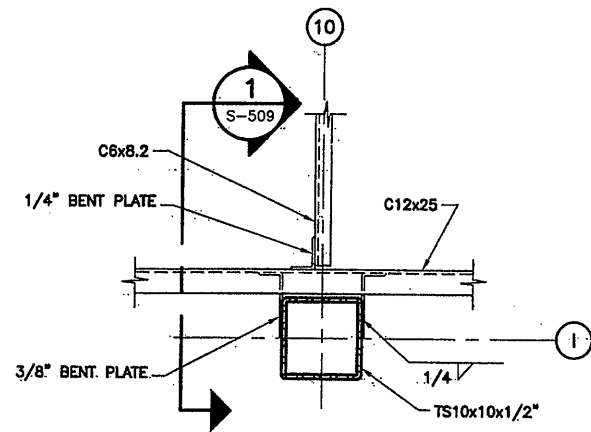


File Number: 00659
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S-508

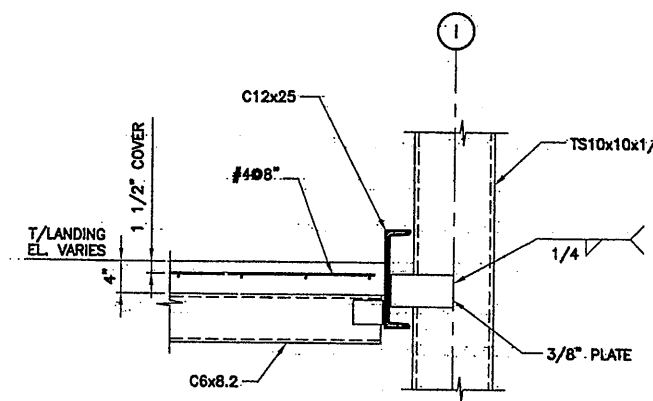


STRUCT. STAIR PLAN
SCALE: 1/4" = 1'-0"

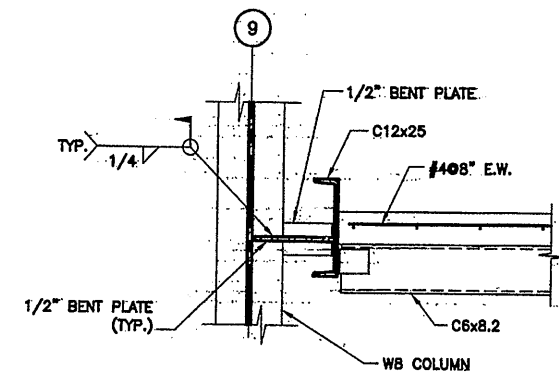
PLAN NOTE:
1. PLAN TYPICAL AT ALL LEVELS.



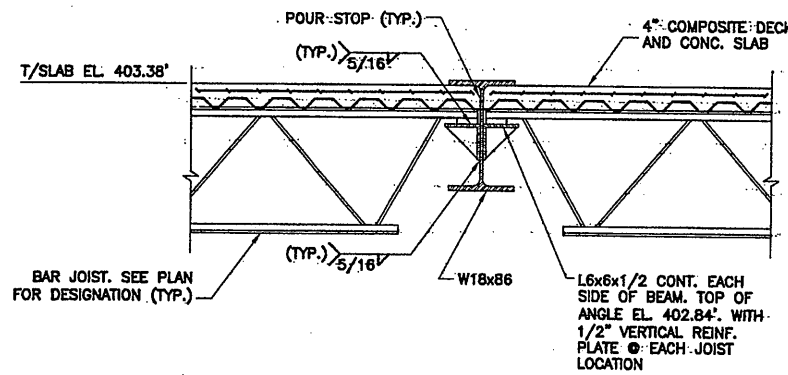
DETAIL A
SCALE: 1" = 1'-0"
S-502



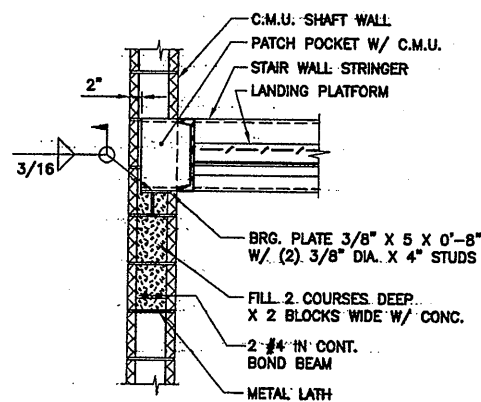
SECTION 1
SCALE: 1" = 1'-0"
S-509



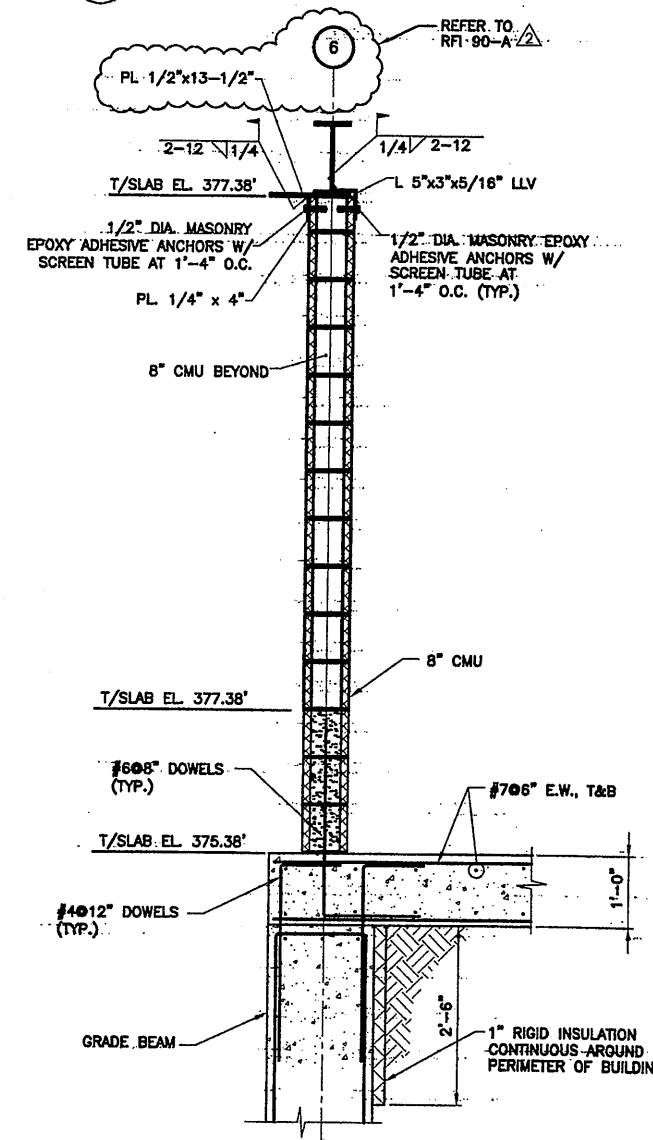
SECTION 2
SCALE: 1" = 1'-0"
S-509



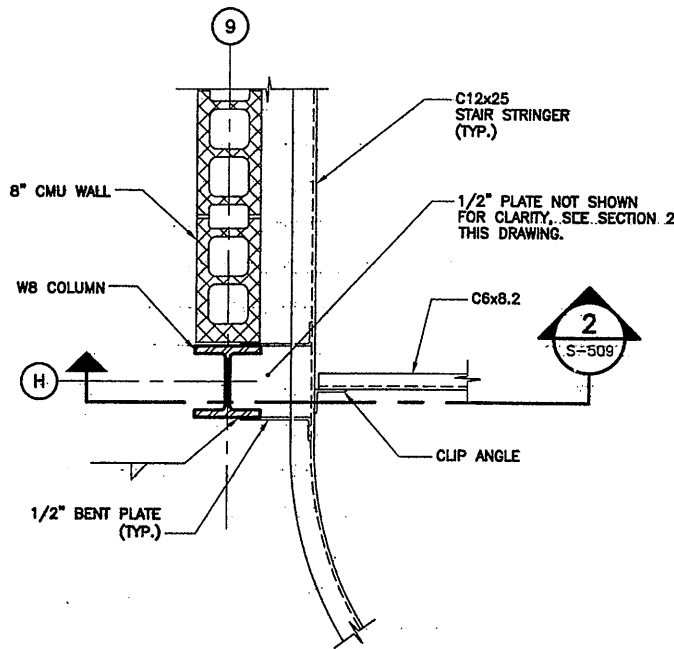
SECTION 4
SCALE: 3/4" = 1'-0"
S-503



STAIR STRINGER BEARING SECTION 5
SCALE: 3/4" = 1'-0"
S-509



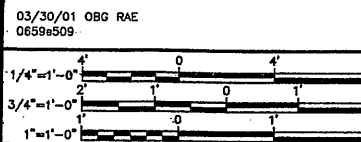
SECTION 6
SCALE: 3/4" = 1'-0"
S-509



DETAIL B
SCALE: 1" = 1'-0"
S-502

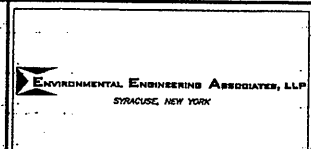
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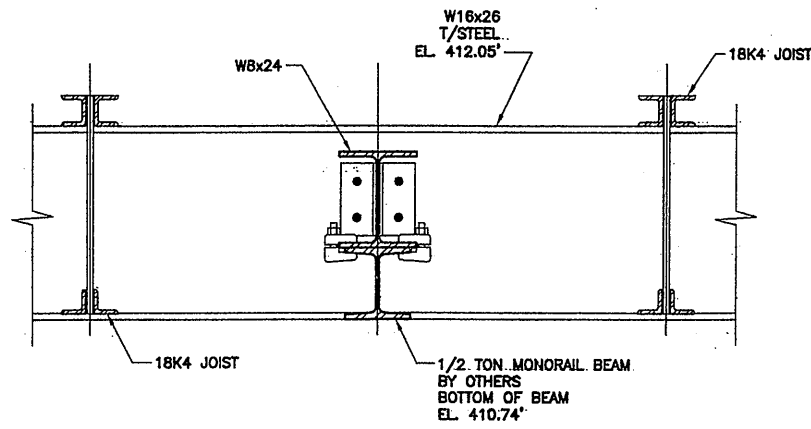
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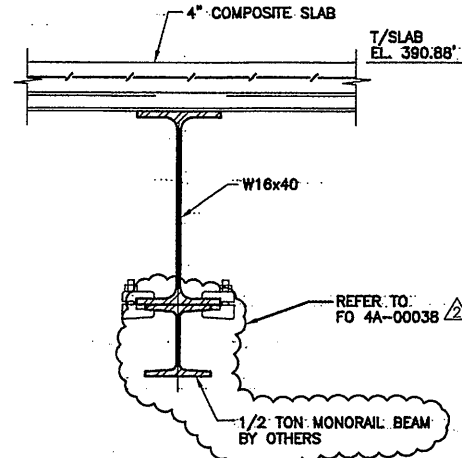
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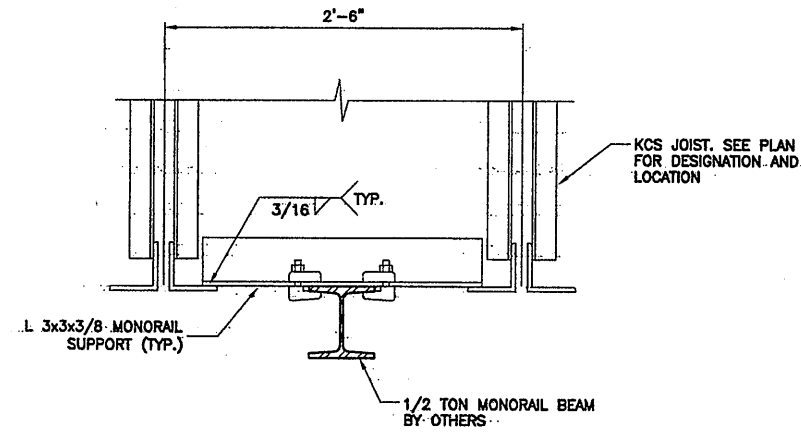
SECTION 1
SCALE: 3/4"=1'-0" S-504

SECTION NOTES:
1. PROVIDE MONORAIL TROLLEY STOPS AT 12" FROM EACH END OF BEAM.
2. MINIMUM BOTTOM OF HOOK ELEVATION SHALL BE 410.17'.



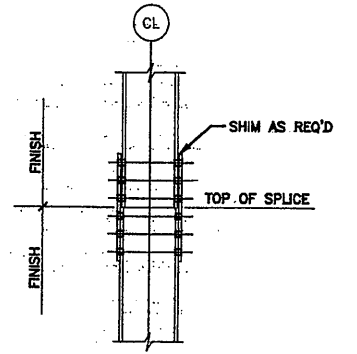
SECTION 2
SCALE: 1-1/2"=1'-0" S-502

SECTION NOTES:
1. PROVIDE TROLLEY STOPS AT EACH END OF MONORAIL BEAM.
2. MINIMUM BOTTOM OF HOOK ELEVATION SHALL BE 387.88'.

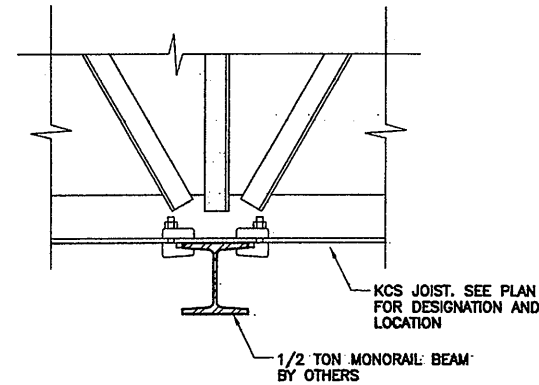


SECTION 3
SCALE: 3/4"=1'-0" S-503

SECTION NOTES:
1. PROVIDE 3"x3"x3/8" ANGLE AT KCS JOIST PANEL POINTS (5'-0" O.C. MAX.) TYP.
2. PROVIDE TROLLEY STOPS AT EACH END OF MONORAIL BEAM.
3. MINIMUM BOTTOM HOOK ELEVATION SHALL BE 398.05'.

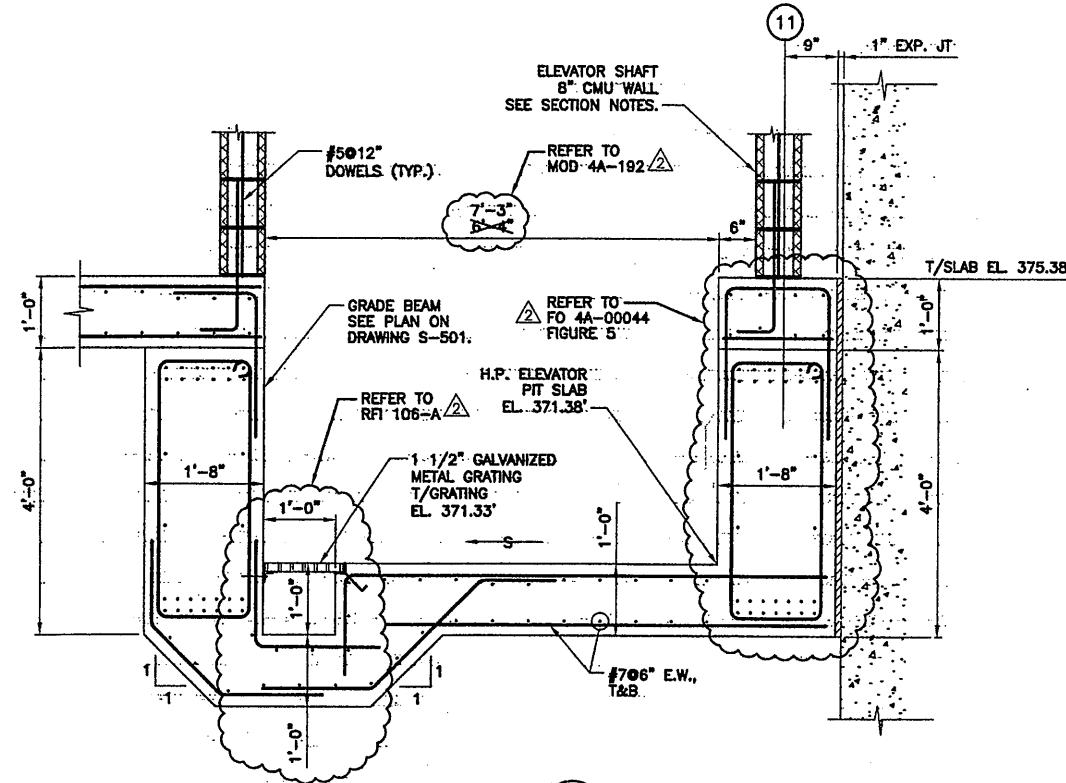


TYPICAL COLUMN SPLICE DETAIL
SCALE: 3/4"=1'-0"



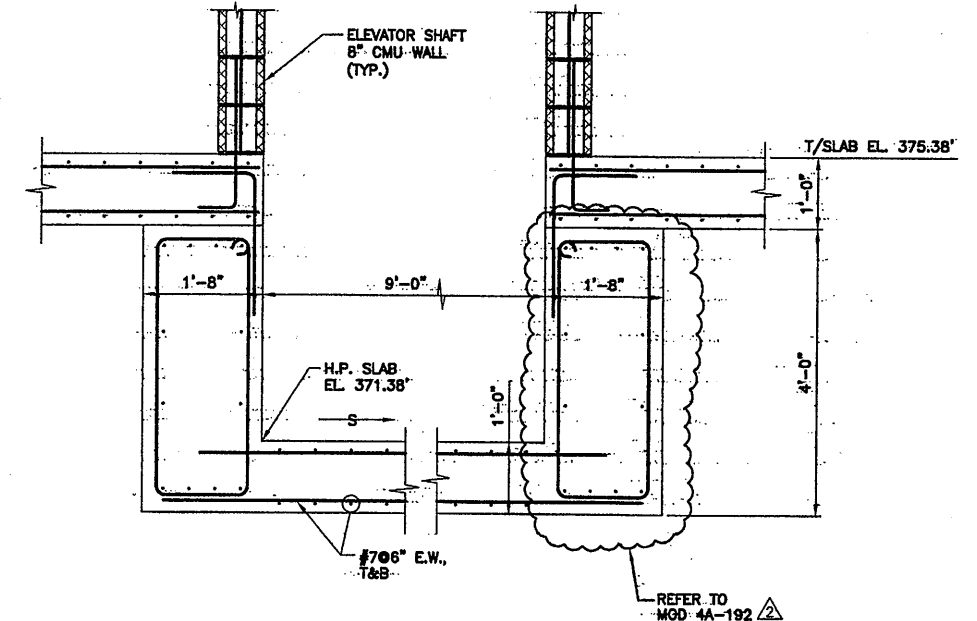
SECTION 4
SCALE: 3/4"=1'-0" S-503

SECTION NOTES:
1. PROVIDE TROLLEY STOPS AT EACH END OF MONORAIL BEAM.
2. MINIMUM BOTTOM OF HOOK ELEVATION SHALL BE 398.05'.



SECTION 5
SCALE: 3/4"=1'-0" S-501

SECTION NOTES:
1. ELEVATOR SHAFT MASONRY WALL REINFORCEMENT SHALL BE:
VERTICAL REINFORCEMENT = #5@24" O.C.
HORIZONTAL REINFORCEMENT = 3/16" x 9 GA TRUSS - TYPE REINFORCEMENT EVERY OTHER COURSE.
2. PROVIDE HORIZONTAL BOND BEAM W/ (2)-#5 BARS CONTINUOUS AT ALL ELEVATOR RAIL SUPPORT BRACKET LOCATIONS; COORDINATE ELEVATION OF BOND BEAMS WITH ELEVATOR MANUFACTURER.



SECTION 6
SCALE: 3/4"=1'-0" S-501

RECORD DRAWING

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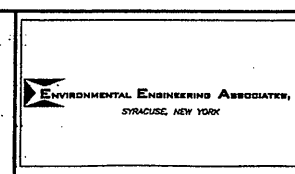
DATE: 10/31/05 PER: RAE

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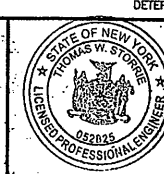
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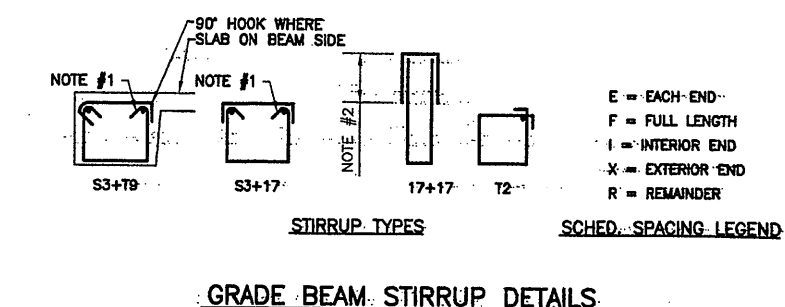
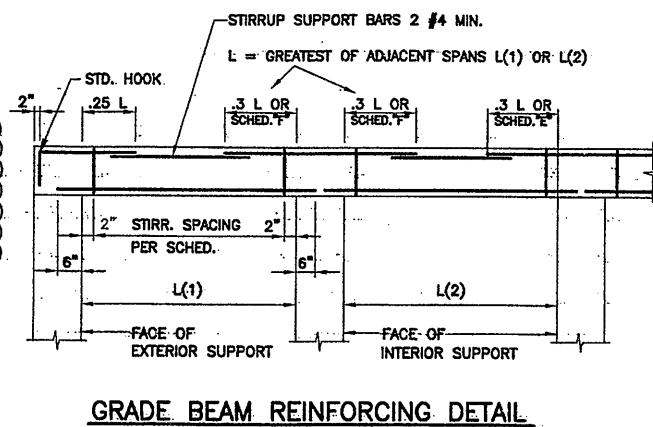
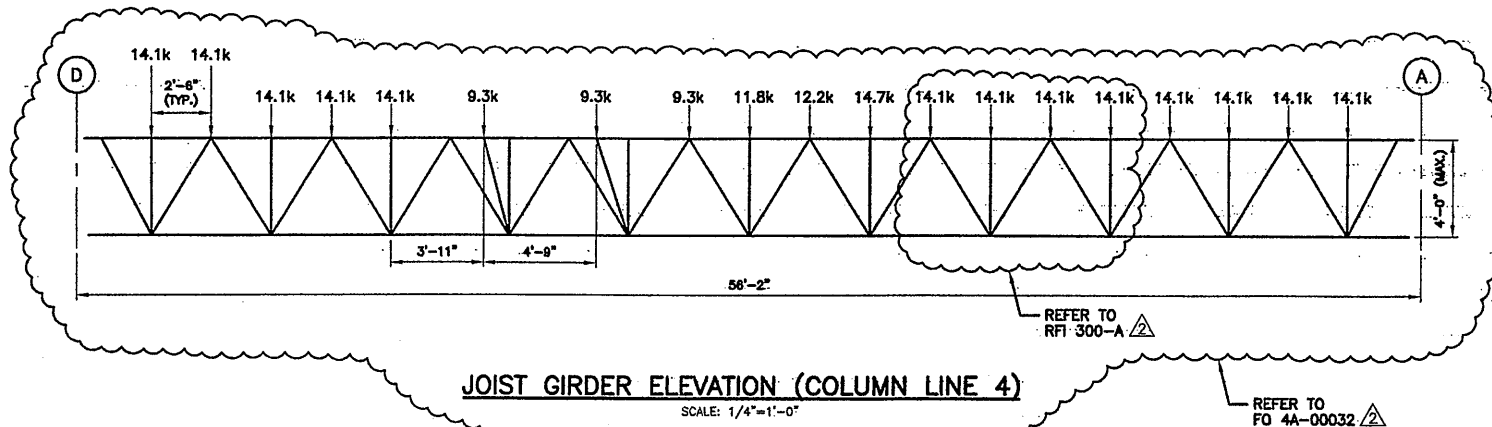


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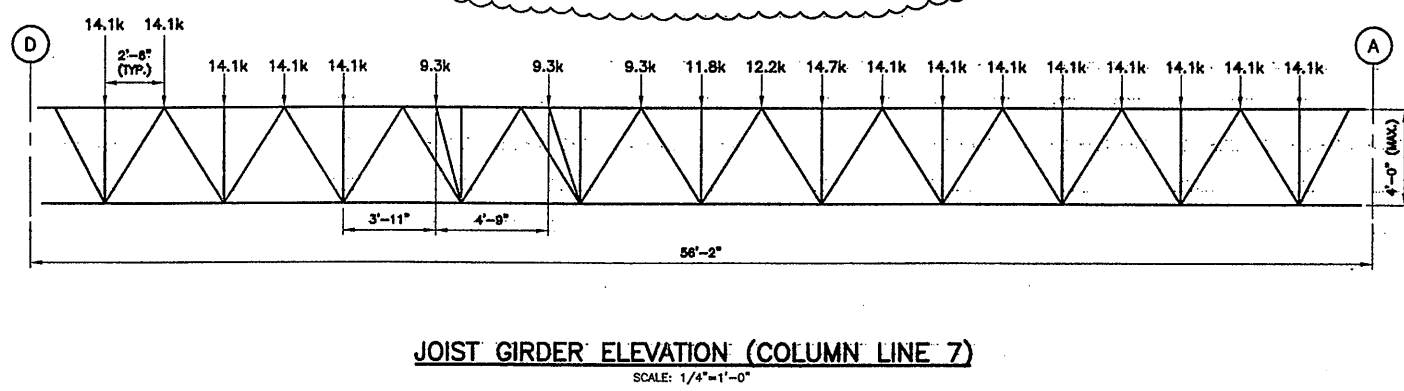
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File Number 00659
Date APRIL 2001
S-510



DETAIL NOTES:
1. #3, #4, & #5 STIRR. HOOK W/ 6 BAR DIA. EXTENSION AND CONT. REINF. AT BEND = BEAM "T", "C", "H" REINF. OR #4.
2. 17+17 STIRR. LAP => SEE LAP SCHED.



GRADE BEAM SCHEDULE

SEE DETAILS "A" & "B"
"E" & "F" DIMENSION TOP BAR EA. SIDE OF SUPPORT & NOTED IN "FEET". ONLY IF DIFFERENT THAN STANDARD DETAIL.

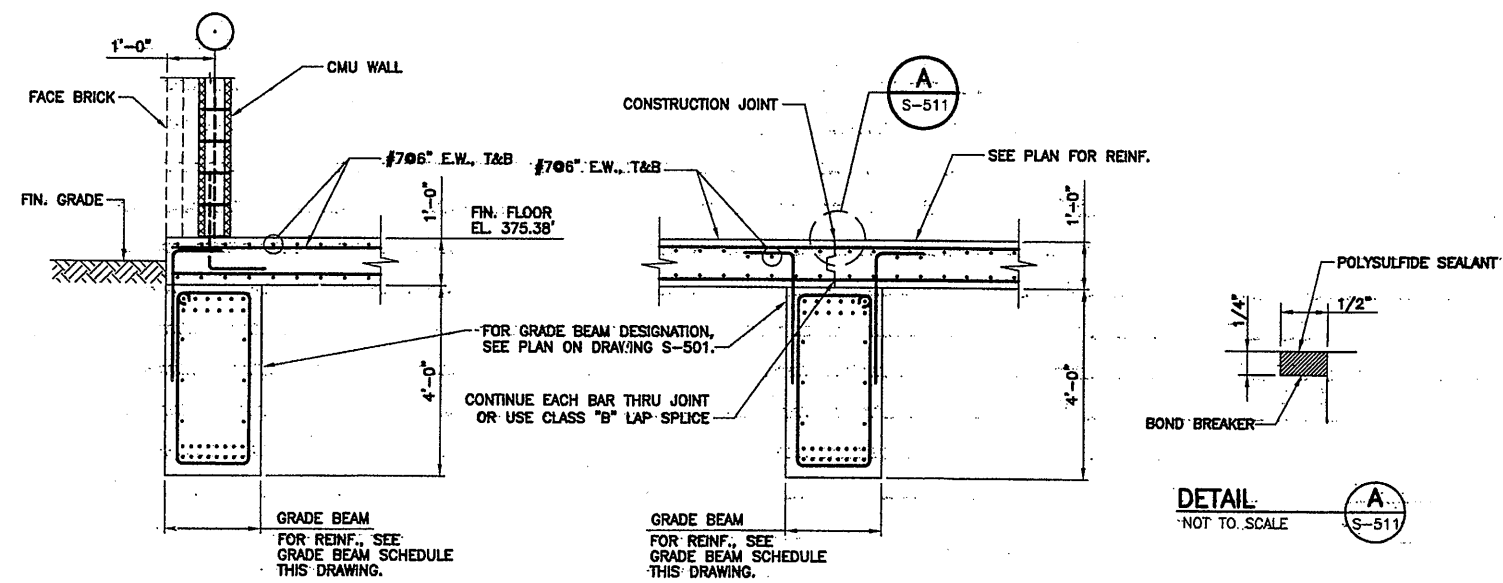
MARK	SIZE		REINFORCING					E	F	TYPE	SECTION		STIRRUPS		REMARKS
	WIDTH	DEPTH	B	T	C	H	SECTION				SECTION	SIZE	SPACING	TYPE	
OPERATIONS CENTER / CHEMICAL STORAGE BUILDING															
OCB1	18"	30"	12-#9	6-#8	6-#8	3-#8	-	7'	3			#4	15"	-	NOTES 1, 2
OCB2	20"	48"	14-#8	12-#7	6-#8	3-#8	-	7'	3			#4	15"	-	NOTES 1, 2
OCB3	24"	48"	16-#8	14-#8	6-#8	3-#8	-	7'	3			#5	15"	-	NOTES 1, 2

SCHEDULE NOTES:
1. BEAMS SCHED. WITH EQUIV. REINF. AT "H", "C", OR "T" CAN BE CONT. REINF. OR LAP. AT MIDSPAN.
2. FOR BEAMS GREATER THAN 18" DEEP ADD #5@12" HORIZ. E.F. REINF. U.O.N.
3. HORIZ. BEAMS WITHIN SLABS: CONT. AND OTHER REINF. DETAILED W/ SLAB SCHEDULE AND SECTIONS.
HORIZ. BEAM STRIPS WITHIN WALLS: CONT. REINF. DETAILED W/ WALL SCHEDULE AND SECTIONS.

COLUMN SCHEDULE
SEE COLUMN DETAILS

COLUMN MARK	E11	D2, D4, D7, D11, E2, E5, E8, F3, G3, G6, G8, G11, H6, H8, I 11	I 10	A4	A1, B1	A7	A11, B11, C1, C11, D1	C4
CAP PLATE	THICKNESS: 3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	SIZE: 9'-9" X 0'-10"	0'-8" X 0'-10"	0'-11" X 0'-11"	0'-9" X 0'-10"	0'-8" X 0'-11"	0'-8" X 0'-8"	0'-8" X 0'-10"	0'-8" X 0'-10"
ROOF EL. 417.88'								
THIRD FLOOR EL. 404.38'								
SECOND FLOOR EL. 390.88'	WB X 67	WB X 67	TS 10 X 10 X 1/2	WB X 67	WB X 24	WB X 24	WB X 67	WB X 24
FIRST FLOOR EL. 375.38'								
BASE PLATE	THICKNESS: 1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1"
	SIZE: 1'-0" X 1'-0"	1'-0" X 1'-0"	1'-3" X 1'-3"	1'-0" X 1'-0"	0'-10" X 0'-11"	0'-10" X 0'-11"	1'-0" X 1'-0"	0'-10" X 0'-11"
REMARKS								

REFER TO RFI 90-A PART 5 & 7



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Drawn by: RAE
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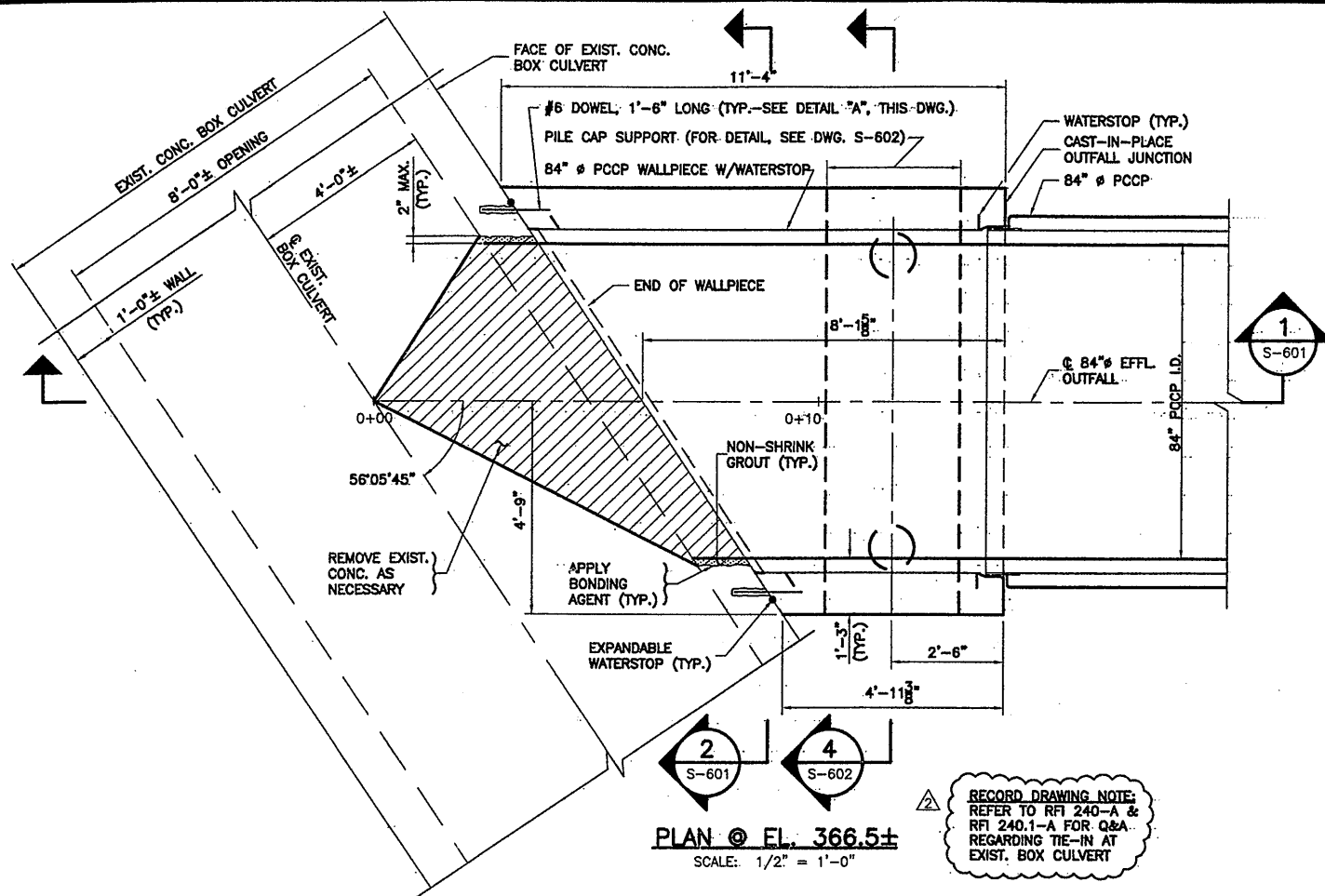
ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP
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OPERATIONS CENTER SECTIONS & DETAILS
STRUCTURAL

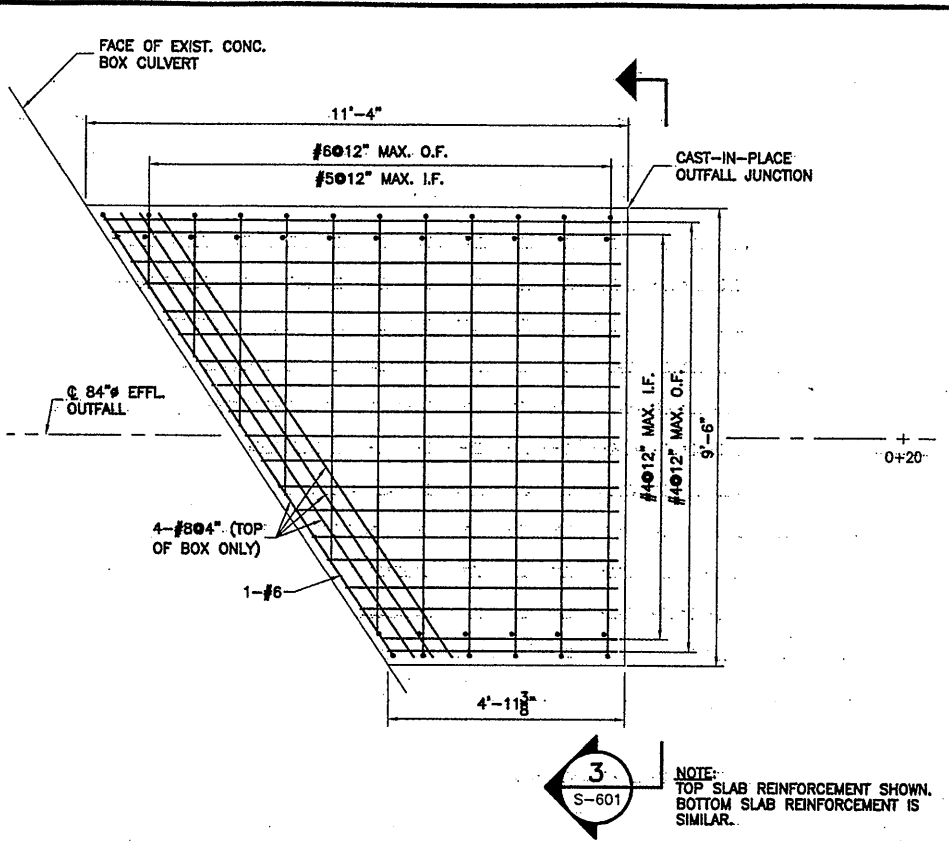
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Date: APRIL 2001
S-511

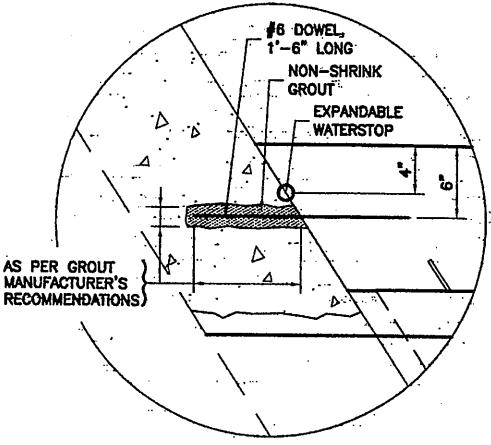


PLAN @ EL. 366.5±
SCALE: 1/2" = 1'-0"

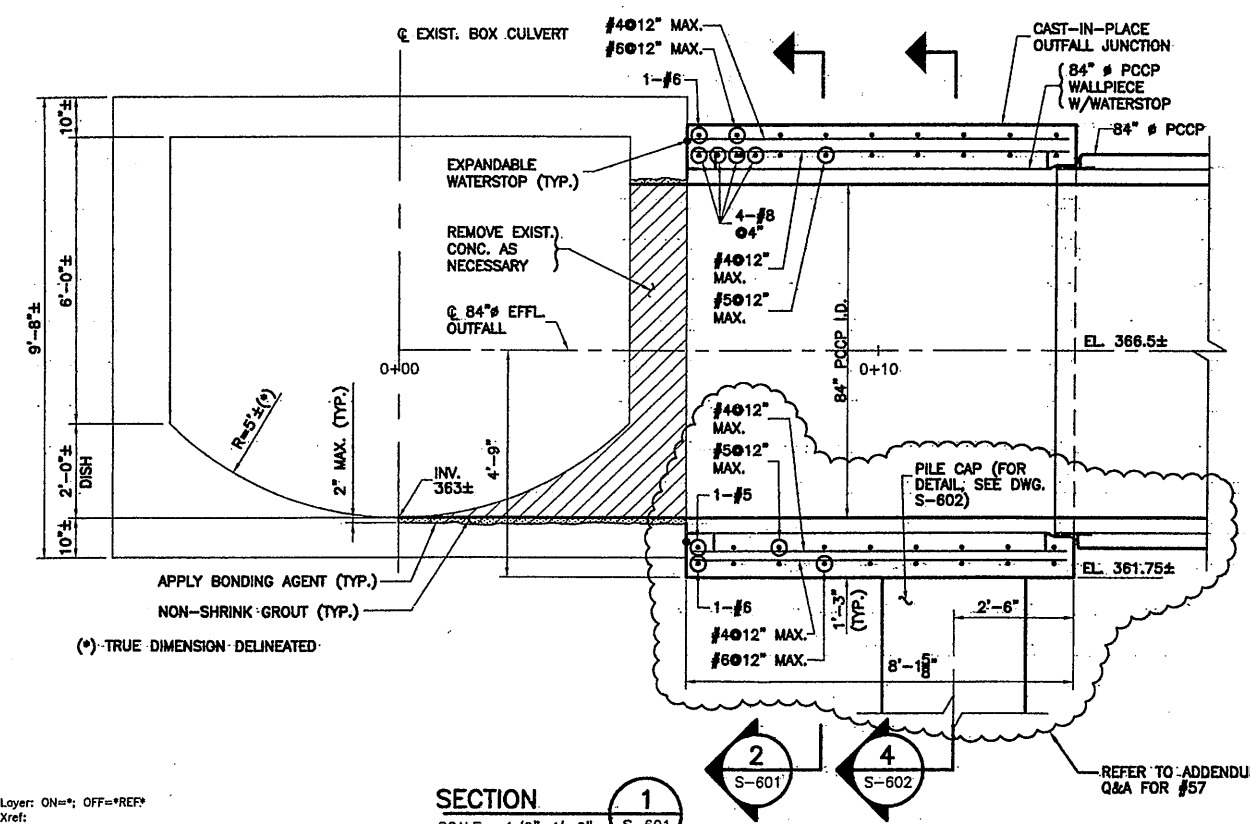
RECORD DRAWING NOTE:
REFER TO RFI 240-A & RFI 240.1-A FOR Q&A REGARDING TIE-IN AT EXIST. BOX CULVERT



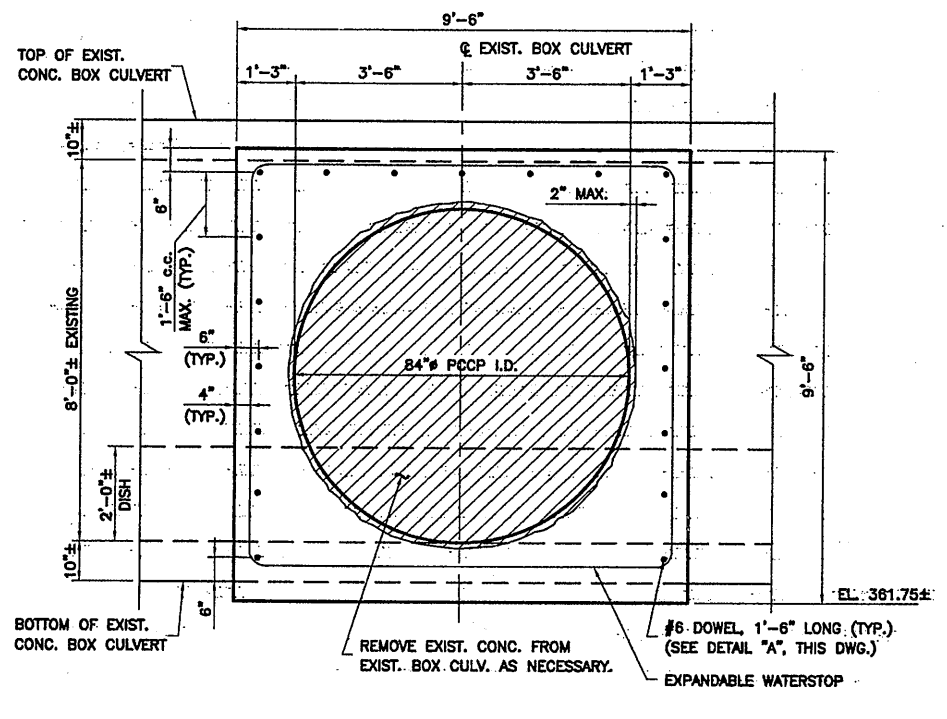
REINFORCING PLAN
SCALE: 1/2" = 1'-0"



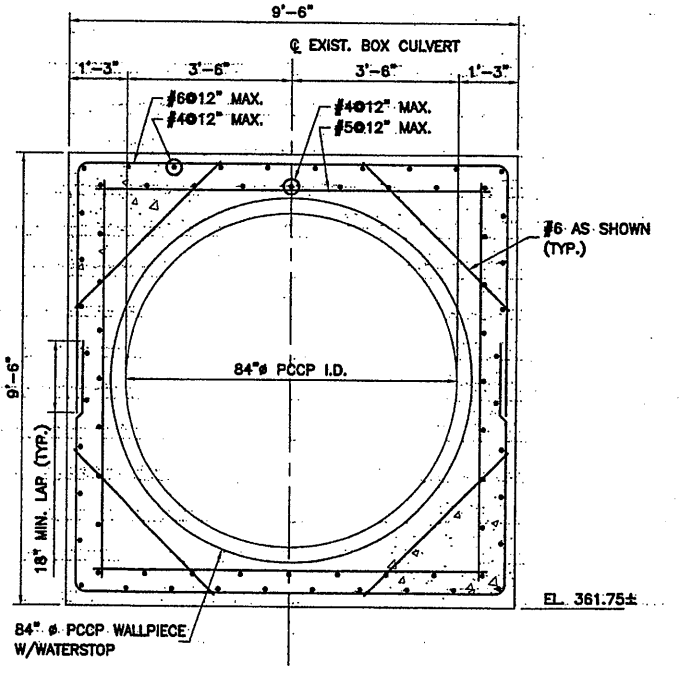
DETAIL "A"
SCALE: 1-1/2" = 1'-0"



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



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



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

Layer: ON=; OFF=REF;
Xref:
06/25/01 BAPC MLW
05503045/06595601.DWG

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Drawn by: MLW
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SYRACUSE, NEW YORK

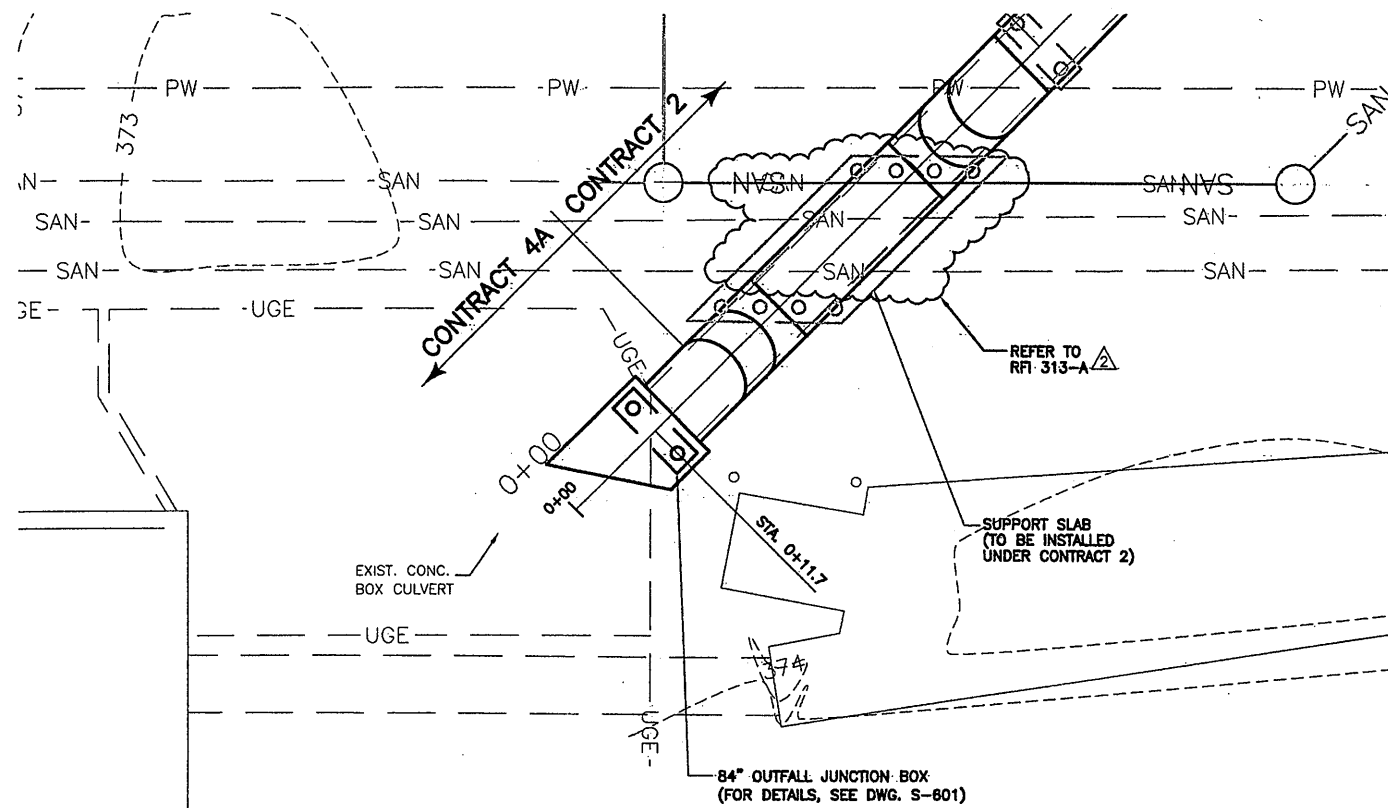
BRYANT ASSOCIATES, P.C.
Engineers - Surveyors
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**84" OUTFALL JUNCTION BOX
PLAN, SECTIONS AND DETAILS**

STRUCTURAL

File Number: 00659
Date: APRIL 2001
S-601



PLAN

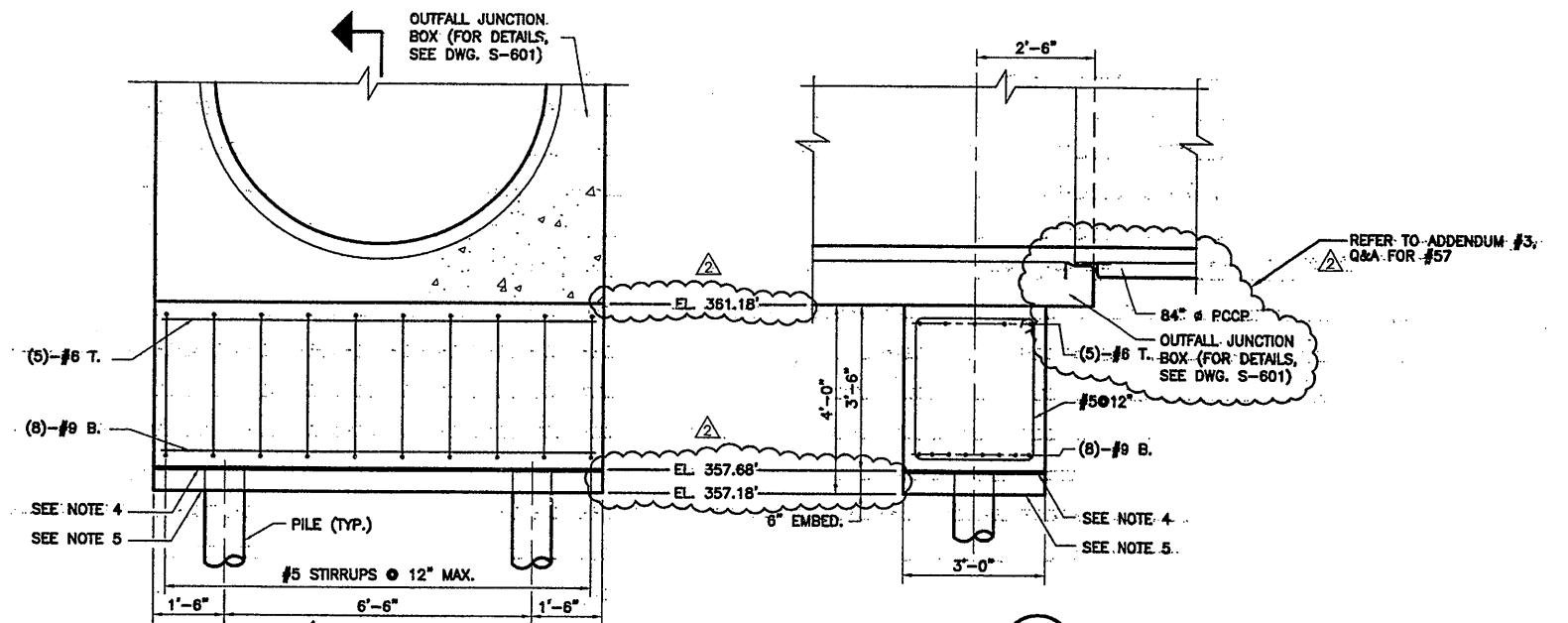
SCALE: 1"=10'

REFER TO SHOP DRAWING BY VANINI PIPE, INC. FOR 84" V-12 ELBOW SKETCH LOCATED AT EXIST. 84" OUTFALL JUNCTION BOX

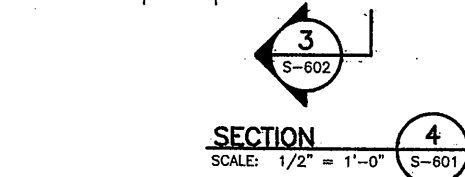


NOTES:

1. USE OUTFALL JUNCTION BOX PILE CAP AT STATION 0+11.7.
2. THE PCCP SHALL BE DESIGNED FOR THE DEAD WEIGHT OF THE PIPE, A FULL PIPE (63 PCF), FOUR FEET OF SOIL, AND HS-25 WHEEL LOADS.
3. PILE CAP DESIGNED FOR A MAXIMUM LOAD, INCLUDING WEIGHT OF PILE CAP, OF 160 TONS (80 TONS PER PILE).
4. REINFORCED CONCRETE PILE CAPS MAY BE EITHER CAST-IN-PLACE OR PRECAST. WITH PRECAST OPTION, USE 3/8" STEEL PLATE WITH TWO ROWS OF FIVE 3/4" X 6" LONG WELDED STUDS, WELD PLATE AND TOP OF PILE ALL AROUND WITH 1/4" FILLET WELD.
5. WITH CAST-IN-PLACE OPTION, PROVIDE 6" MINIMUM EMBEDMENT OF PILE INTO CAP.



SECTION 3
SCALE: 1/2" = 1'-0" S-602



SECTION 4
SCALE: 1/2" = 1'-0" S-601

PILE CAP @ OUTFALL JUNCTION BOX
SCALE: 1/2" = 1'-0"

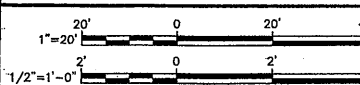
RECORD DRAWING

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DATE: 12/19/05 PER: RCG

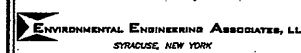
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Layer: ON=*, OFF=*REF*
Xref: 0659x048, 0659x049
06/25/01 BAPC MLW
05503045/0659S602.DWG



No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1	7/3/01	AS BID	
2	10/31/05	RECORD DRAWING	RCG

In. charge of: WFK
Designed by: GVN
Drawn by: MLW
Checked by: WAF



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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

**84" SUPPORTS
PLAN, SECTIONS AND DETAILS**

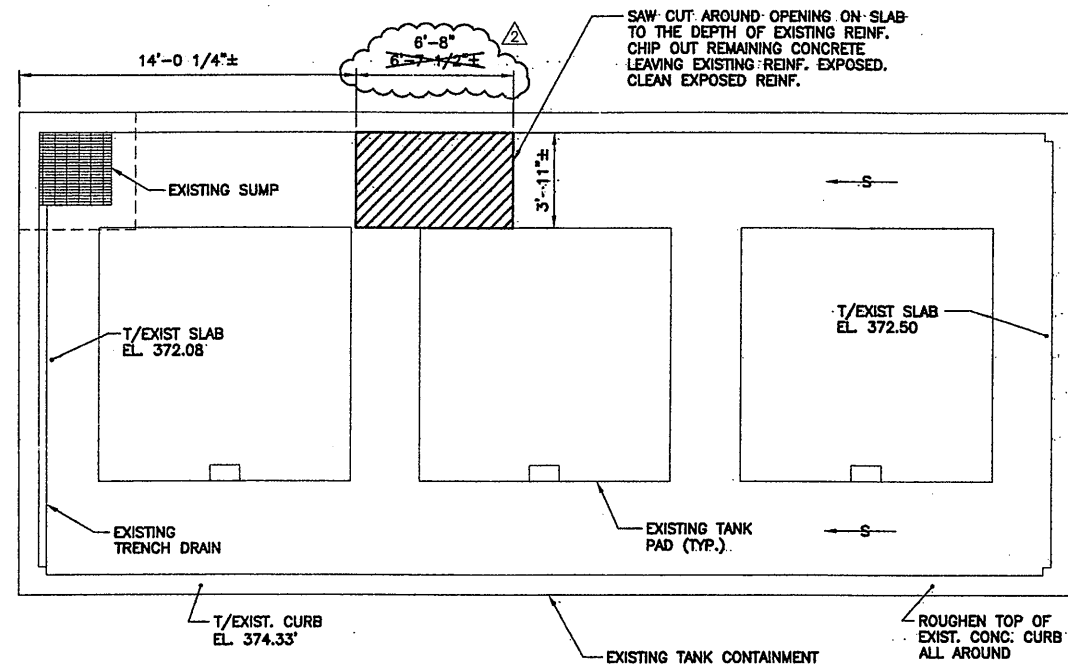
STRUCTURAL



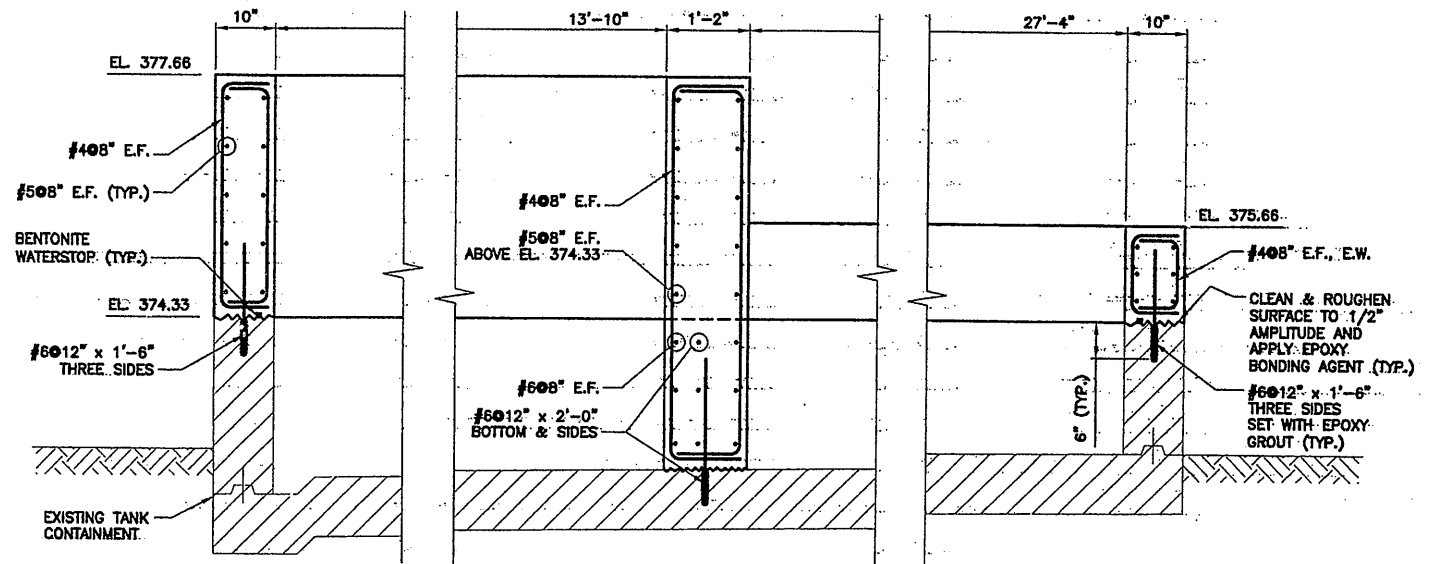
File Number: 00659

Date: APRIL 2001

S-602

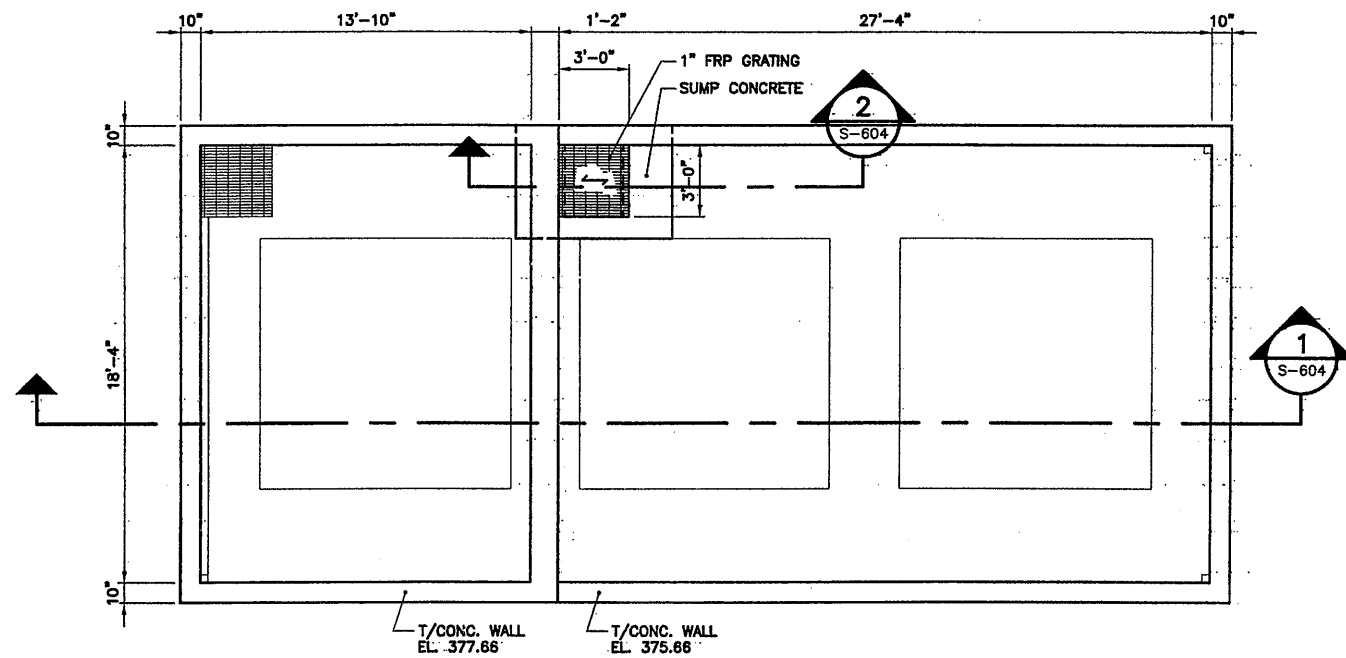


EXISTING TANK CONTAINMENT AREA - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

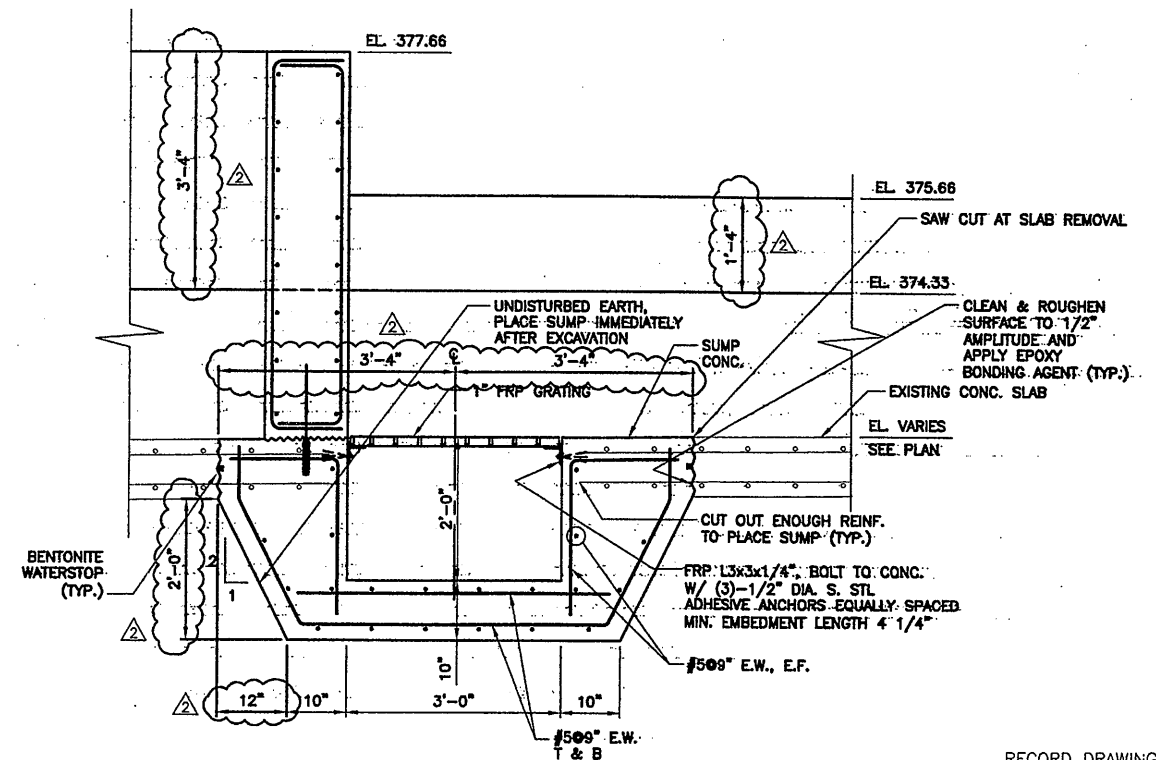


SECTION 1
SCALE: 3/4" = 1'-0" S-604

SECTION NOTES:
1. EXISTING TANK PADS NOT SHOWN.



BULK CHEMICAL STORAGE & CONTAINMENT PLAN
SCALE: 1/4" = 1'-0"



SECTION 2
SCALE: 3/4" = 1'-0" S-604

RECORD DRAWING
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DATE: 12/12/05 PER: RAE

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07/3/01 OBG RAE
0659604.DWG

1/4"=1'-0"	4'	0'	4'	8'
3/4"=1'-0"	2'	0'	2'	4'

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

In charge of	TWS
Designed by	TWS
Drawn by	RAE
Checked by	CMT

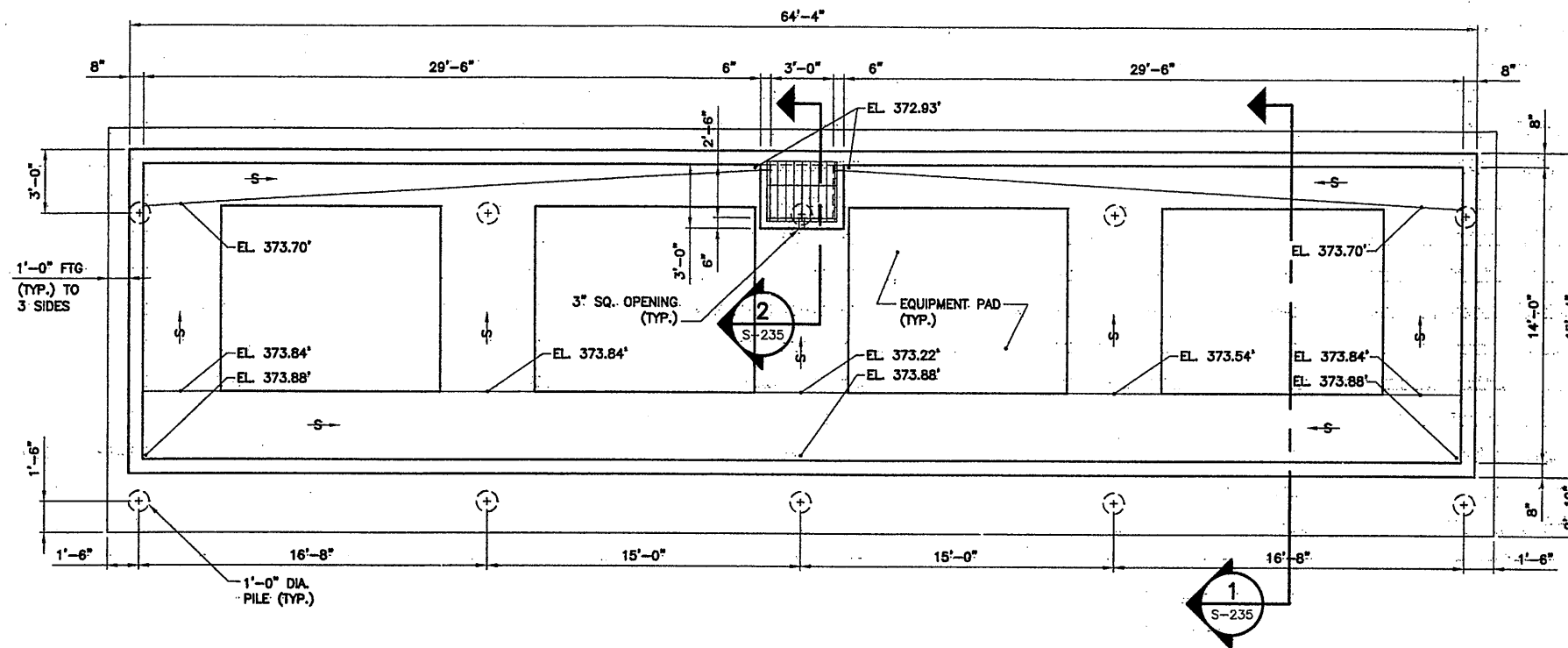
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
BULK CHEMICAL STORAGE & CONTAINMENT AREA

PLANS AND SECTIONS.
STRUCTURAL

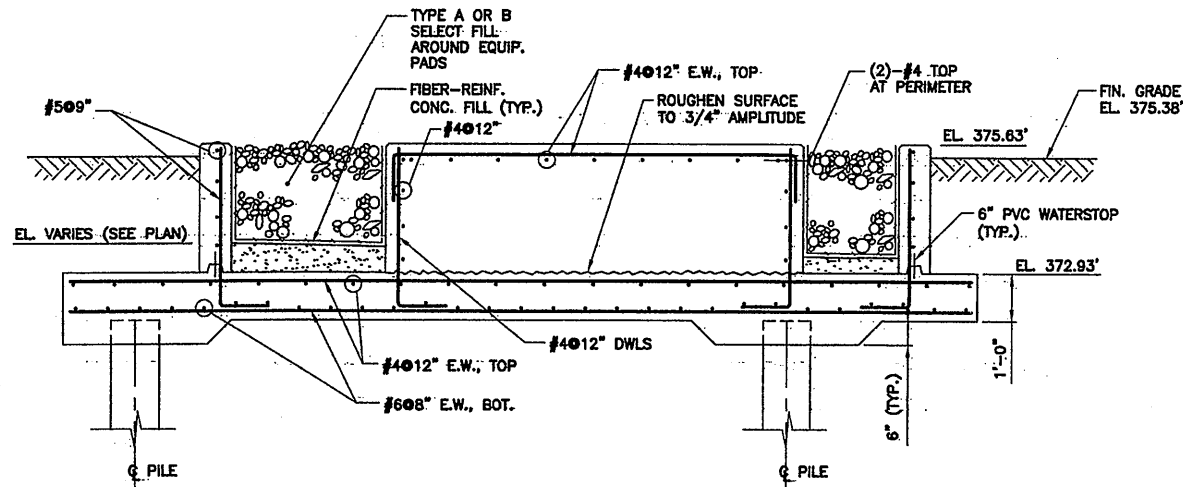
STATE OF NEW YORK
THOMAS W. STORER
LICENSED PROFESSIONAL ENGINEER
052625

File Number: 00659
Date: APRIL 2001
S-604

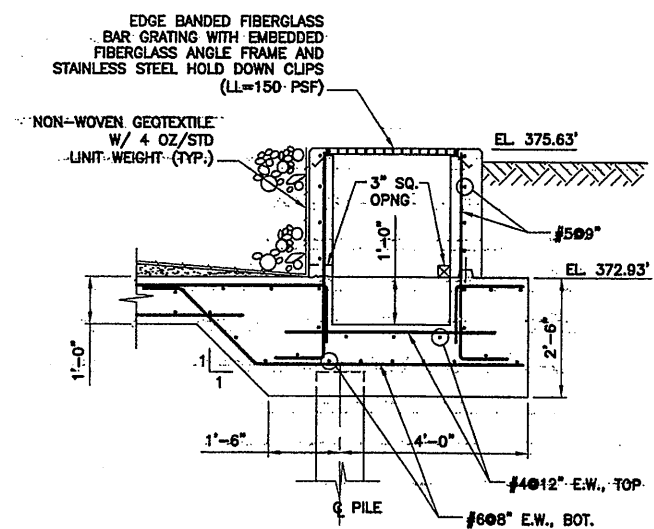


SUBSTATION PAD PLAN
SCALE: 1/4" = 1'-0"

PLAN NOTES:
1: SIZE AND LOCATION OF EQUIPMENT PADS TO BE COORDINATED WITH EQUIPMENT SUPPLIER.



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



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

RECORD DRAWING
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DATE: 12/26/01 PER: RCG

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0659x201 07/3/01 OBG RAE 0659s605.DWG	No.	Date	Revisions	Init
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	1	7/4/01	AS BID	
	2	10/31/05	RECORD DRAWING	RCG

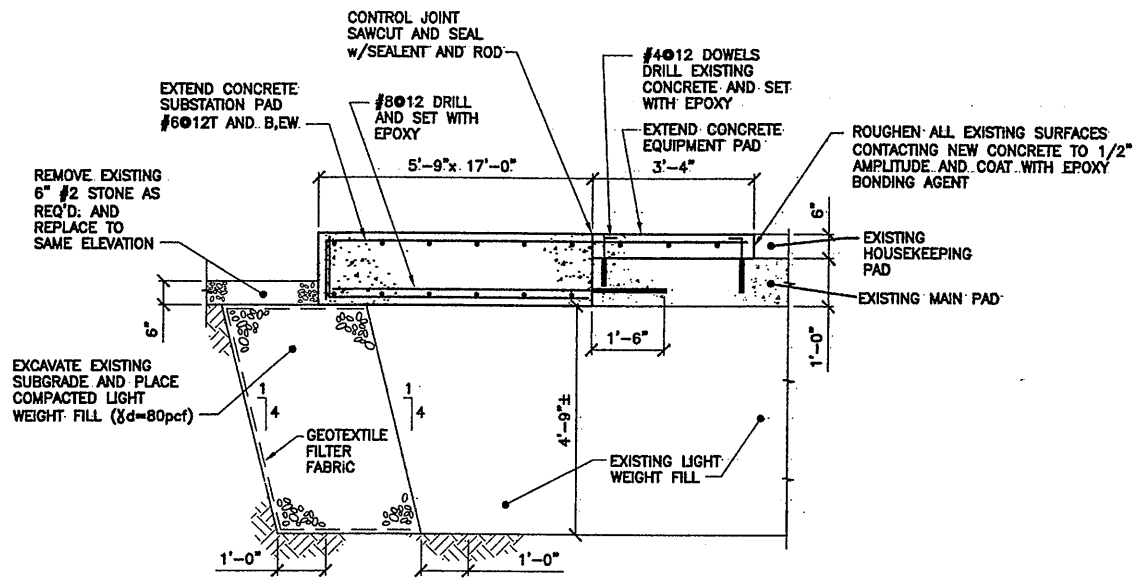
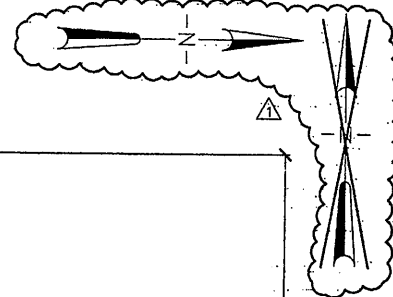
In-charge of	TWS
Designed by	CMT
Drawn by	RAE
Checked by	TWS

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SYRACUSE, NEW YORK

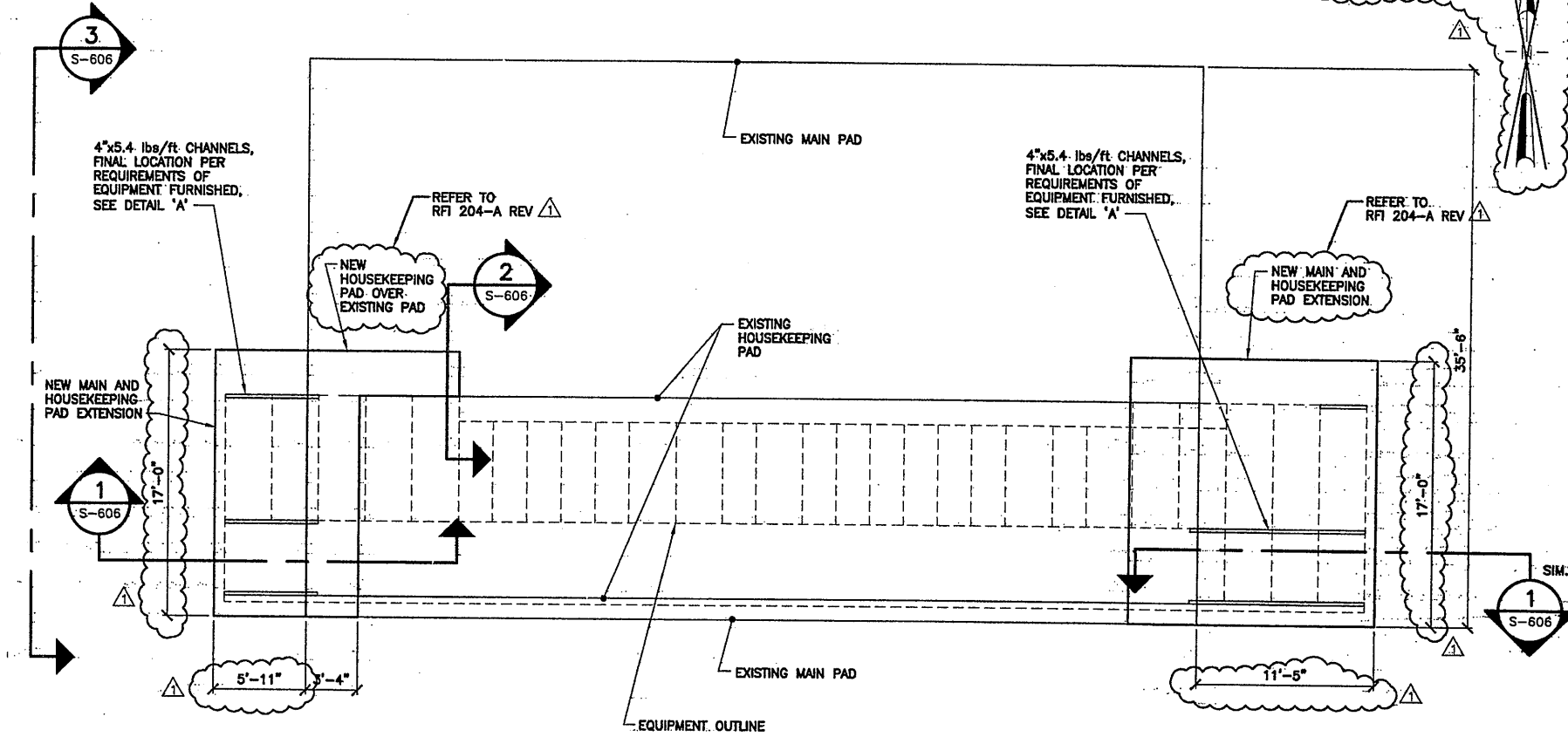
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
BAF OUTDOOR SUBSTATION
ELECTRICAL STRUCTURES
PLAN AND SECTIONS
STRUCTURAL



File Number	00659
Date	APRIL 2001
Project No.	S-605



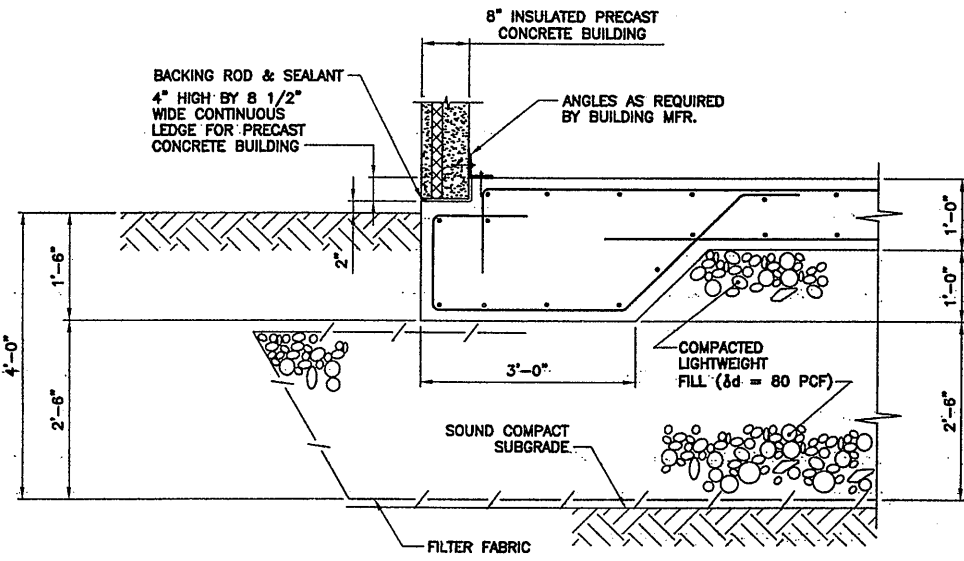
SECTION 1
SCALE: 1/2" = 1'-0"
S-606



EQUIPMENT PAD PLAN
SCALE: 3/16" = 1'-0"

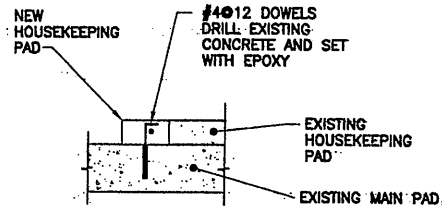
PLAN NOTE:
CONTRACT 4A SHALL FURNISH ALL WORK SHOWN. COORDINATE FINAL SIZES AND LOCATIONS WITH ELECTRICAL SHOP DRAWINGS.

REFER TO ADDENDUM #3, Q&A FOR #92

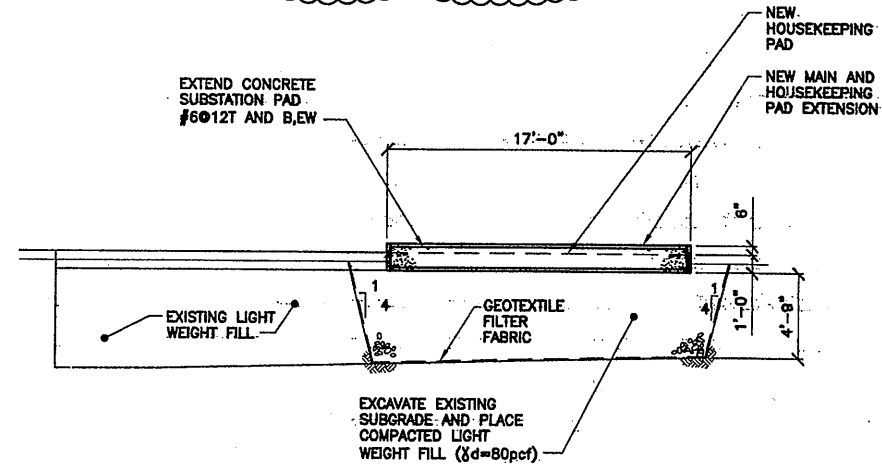


TYPICAL FOUNDATIONS FOR PRECAST CONCRETE BUILDINGS
SCALE: 3/4" = 1'-0"

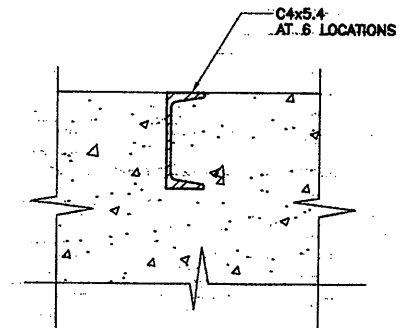
- PLAN NOTES:**
1. PROVIDE FOUNDATIONS FOR MAIN SUBSTATION BATTERY BUILDING (E-007, E-019, G-005 & H-401) AND BYPASS CHLORINE CONTACT TANK BUILDING (G-005, G-015, H-401, E-611, E-611, E-612, M-501 & M-502).
 2. PROVIDE TWO 1'x4' FLOOR OPENINGS IN BATTERY BUILDING.
 3. PROVIDE EQUIPMENT PADS BELOW ALL FLOOR MOUNTED EQUIPMENT.



SECTION 2
SCALE: 1/2" = 1'-0"
S-606



SECTION 3
SCALE: 1/2" = 1'-0"
S-606



SECTION A
NOT TO SCALE
S-606

RECORD DRAWING

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DATE: 12/20/05 PER: RCG

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07/3/01 OBG RAE
0659#606

No.	Date	Revisions	Init
0		AS BID	
1	10/31/05	RECORD DRAWING	RCG

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Drawn by RAE
Checked by CMT



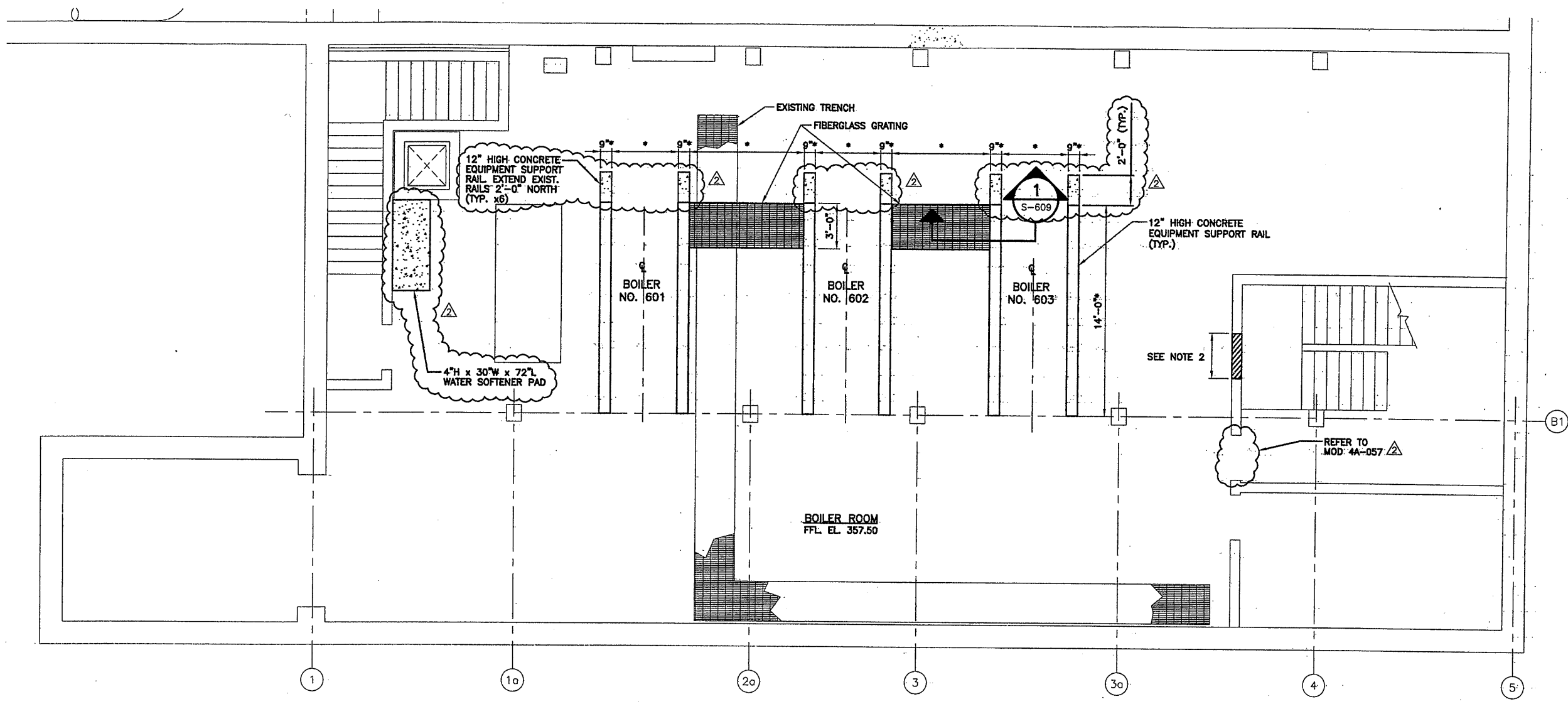
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

ELECTRICAL STRUCTURES PLANS, SECTIONS AND DETAILS
STRUCTURAL



File Number: 06659
Date: JUNE 2001
S-606

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



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

- PLAN NOTES:**
- * COORDINATE DIMENSIONS WITH BOILER MANUFACTURER.
 - EXISTING 36"x36"± OPENING TO BE FILLED IN WITH 2-HOUR FIRE RATED 8" CMU & MORTAR. USE MASONRY TIES TO SECURE TO EXISTING AT EACH COURSE. PAINT TO MATCH EXISTING.
 - CLEAN & FILL ALL FLOOR IRREGULARITIES, SPALLS, CHIPS, DENTS, ETC. WITH EPOXY FILLER COMPACTABLE WITH FINISH COAT.

REFER TO MOD 4A-058

0659x602.DWG
07/3/01 OBG RAE
0659x607.DWG

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
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2	10/31/05	RECORD DRAWING	RCG

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Designed by	TWS
Drawn by	RAE
Checked by	CMT

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SYRACUSE, NEW YORK

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
LOW LIFT PUMP STATION
BASEMENT FLOOR PLAN
STRUCTURAL

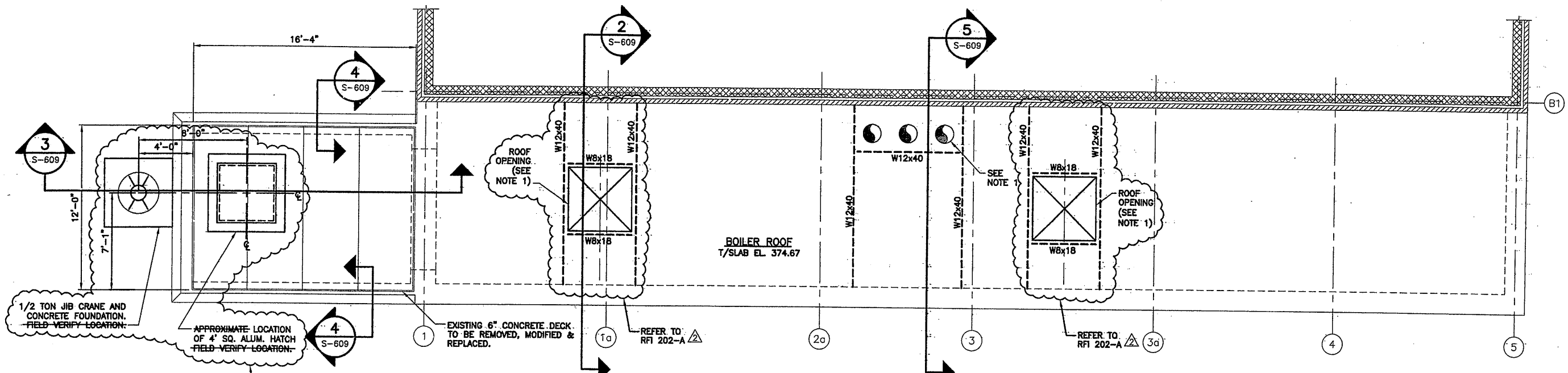
STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER
062825

File Number
00659

Date
APRIL 2001

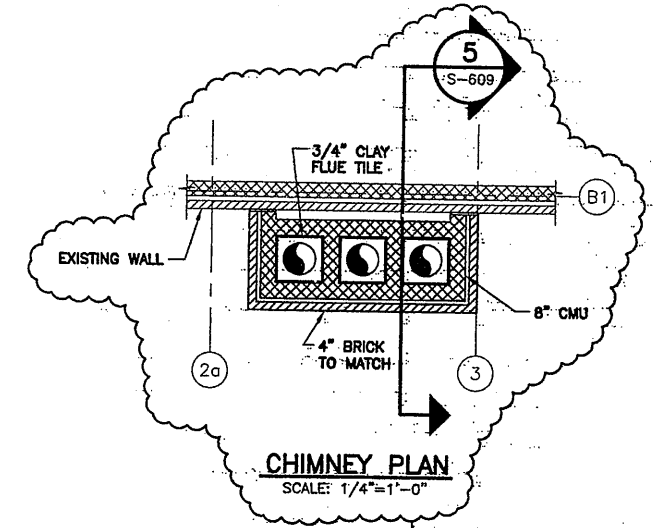
S-607

RECORD DRAWING
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DATE: 12/12/05 PER: RCG
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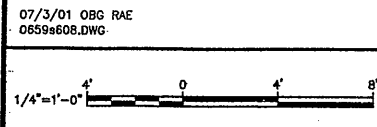
BOILER ROOF PLAN
SCALE: 1/4"=1'-0"

- PLAN NOTES:**
1. SAW CUT & REMOVE TWO 56" x 56" OPENINGS & THREE 12" DIA. OPENINGS. CUT BACK REBAR 1" DEEP AND PATCH WITH EPOXY GROUT.
 2. CURB AT TWO 56" x 56" OPENINGS NOT SHOWN ON PLAN.
 3. VERIFY FINAL LOCATION WITH EQUIPMENT PROVIDED.
 4. SEE H-601 FOR DETAILS NOT SHOWN.



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

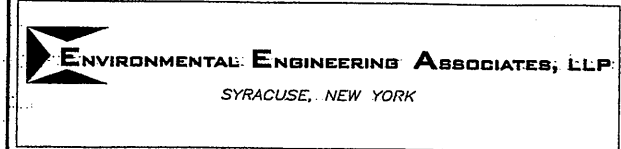
REFER TO MOD 4A-148



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1		AS BID	
2	10/31/05	RECORD DRAWING	RCG

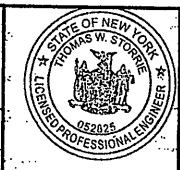
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Drawn by RAE
Checked by CMT



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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

LOW LIFT PUMP STATION

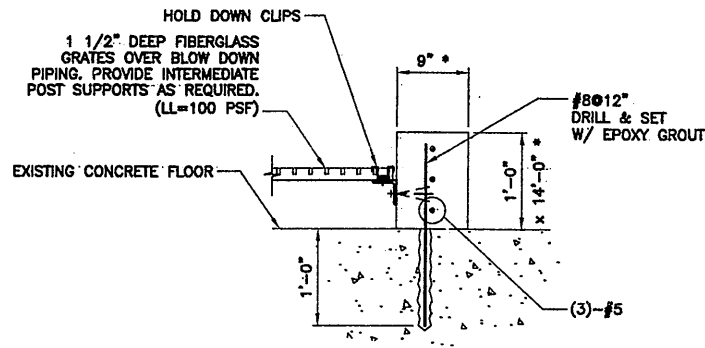
BOILER ROOF PLAN
STRUCTURAL



File Number
00659
Date
APRIL 2001
S-608

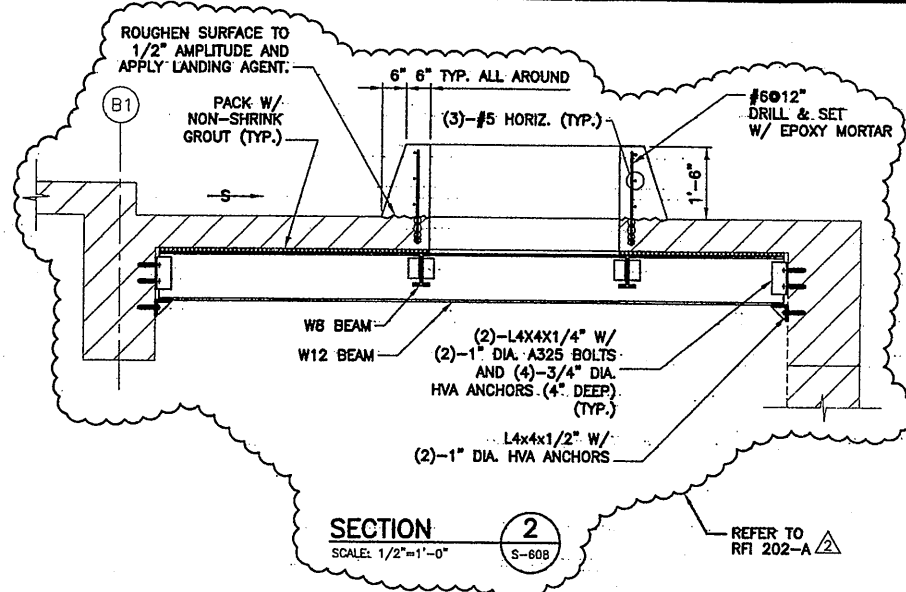
RECORD DRAWING
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DATE: 12/2/05 PER: RCG

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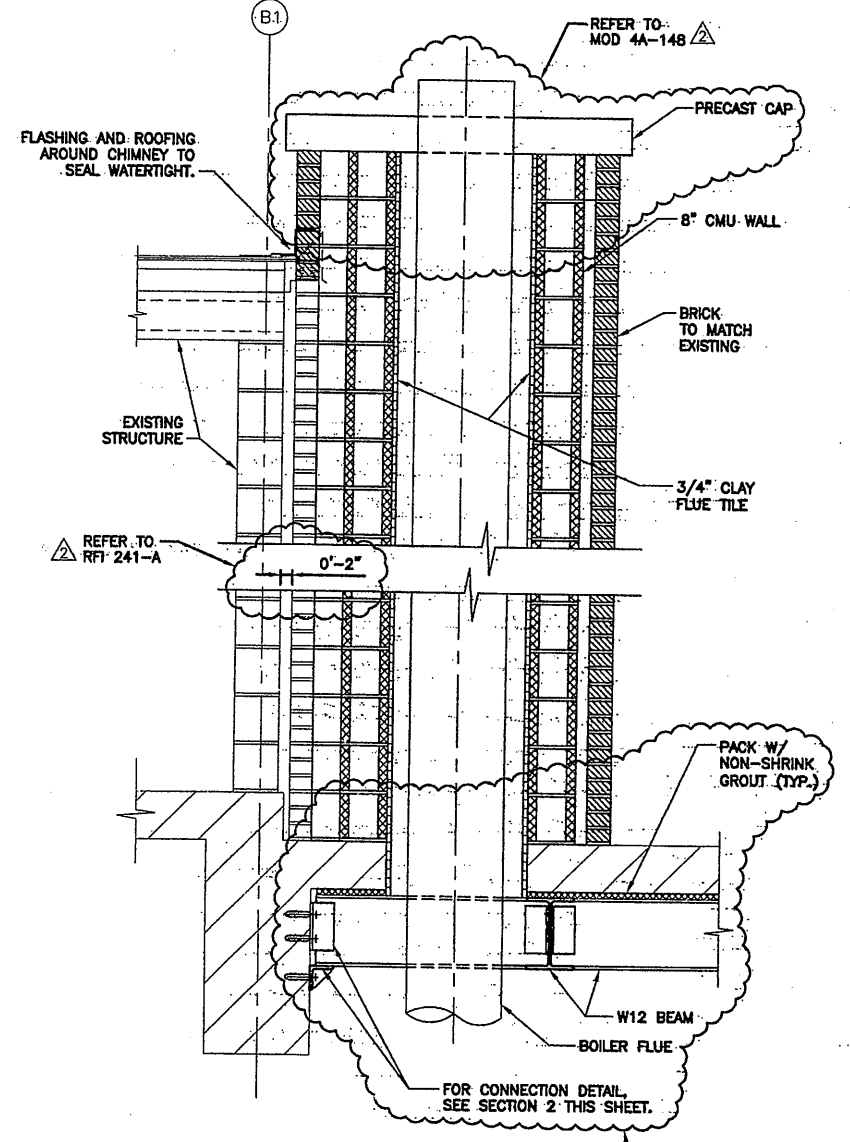
SECTION 1
SCALE: 1"=1'-0"
S-607

SECTION NOTES:
1. * VERIFY WIDTH LENGTH & LENGTH WITH BOILER MANUFACTURER.
(6-REQUIRED)



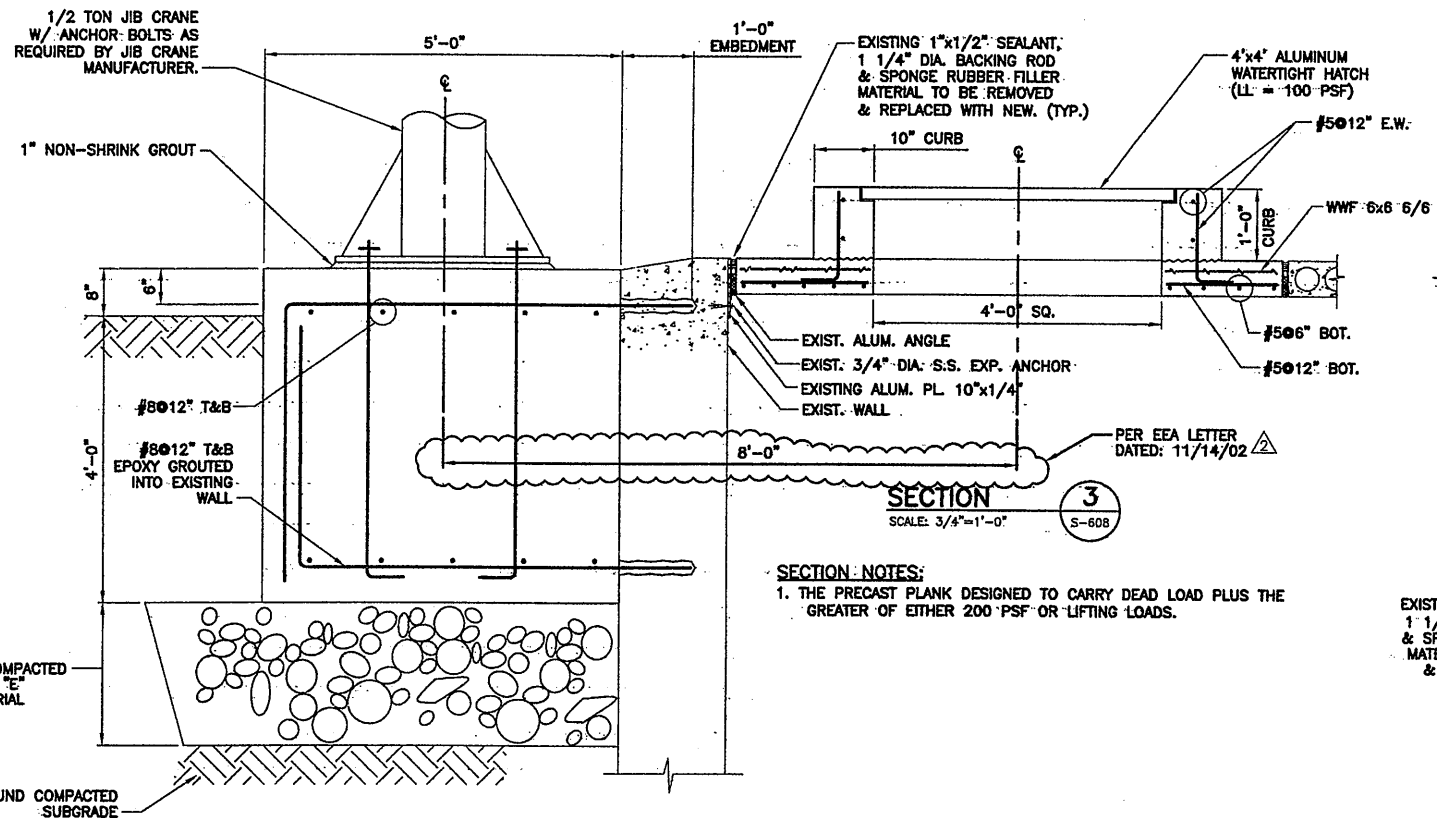
SECTION 2
SCALE: 1/2"=1'-0"
S-608

REFER TO RFI 202-A



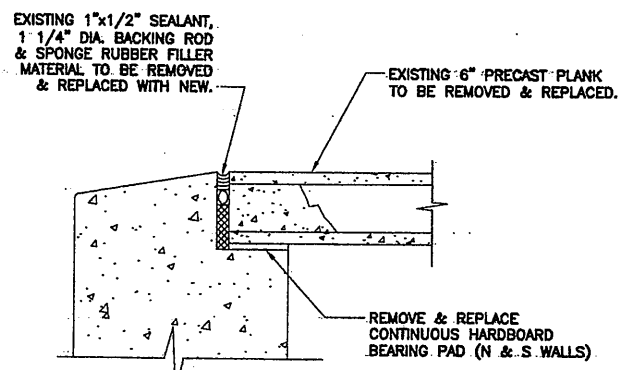
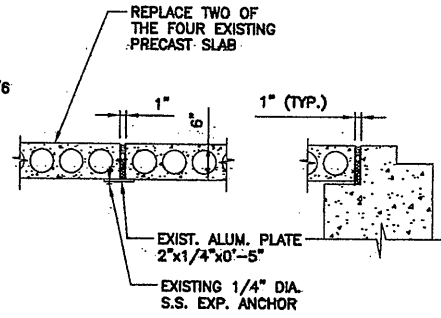
SECTION 5
SCALE: 3/4"=1'-0"
S-608

SECTION NOTES:
1. SEE S-613 FOR FLOOR AND ROOF PENETRATION DETAILS REQUIRED BY HVAC. (H-601, H-602 AND H-603)



SECTION 3
SCALE: 3/4"=1'-0"
S-608

SECTION NOTES:
1. THE PRECAST PLANK DESIGNED TO CARRY DEAD LOAD PLUS THE GREATER OF EITHER 200 PSF OR LIFTING LOADS.



SECTION 4
SCALE: 1 1/2"=1'-0"
S-608

07/3/01 OBG RAE
0659s609.DWG

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No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	TWS
1	AS BID		
2	10/31/05	RECORD DRAWING	RCC

In-charge of TWS
Designed by TWS
Drawn by RAE
Checked by CMT

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
LOW LIFT PUMP STATION

RECORD DRAWING

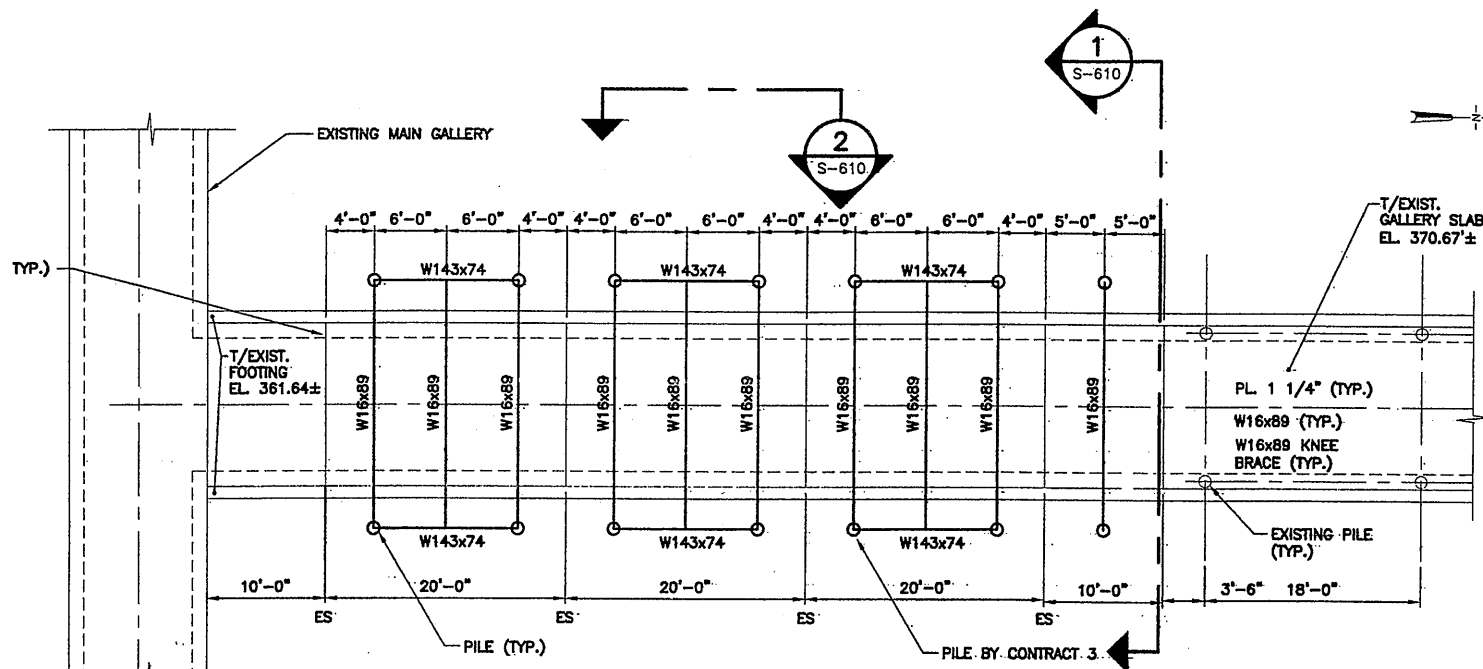
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DATE: 12/16/05 PER: RCG

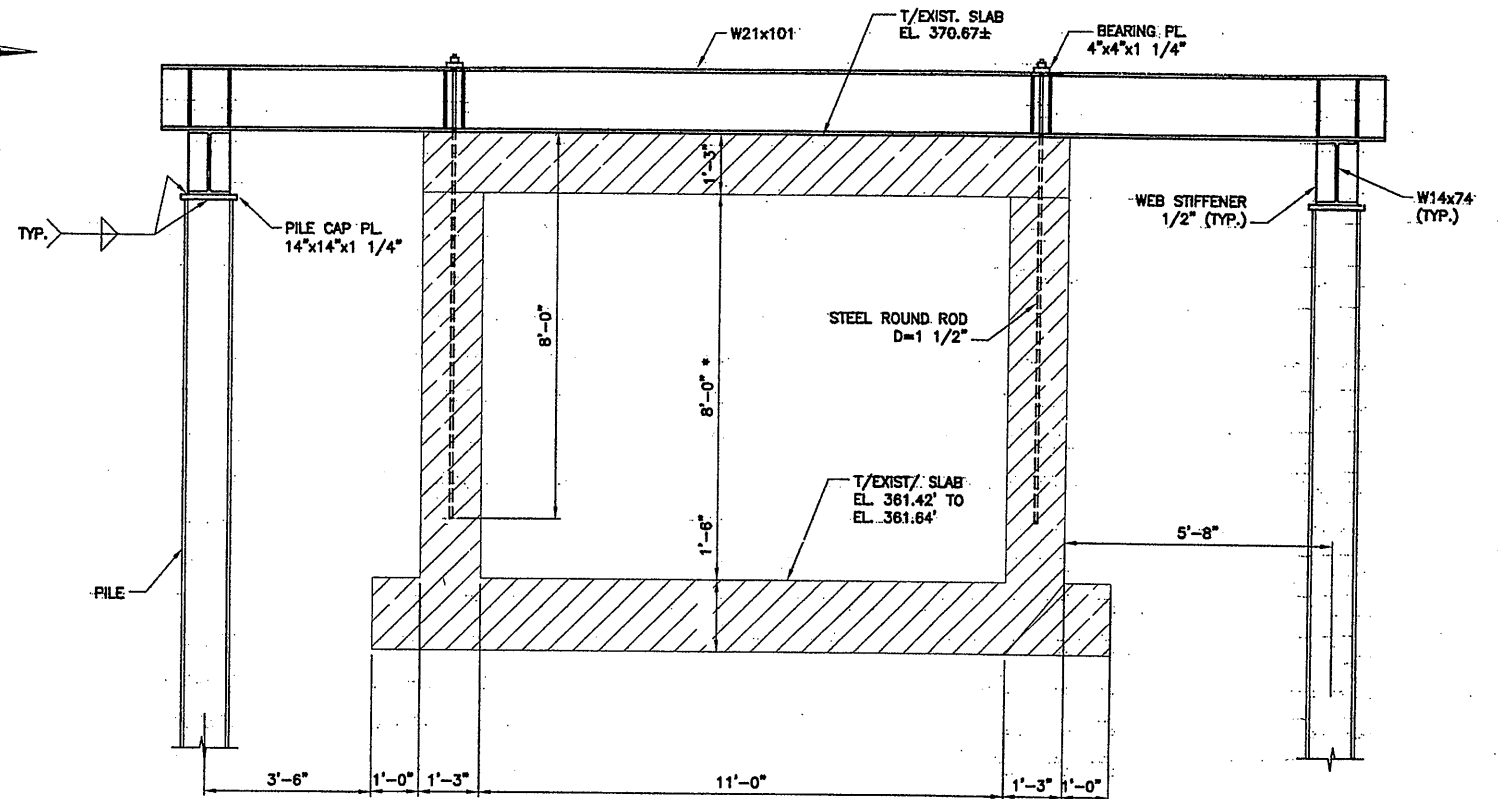
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File Number: 00659
Date: APRIL 2001
S-609

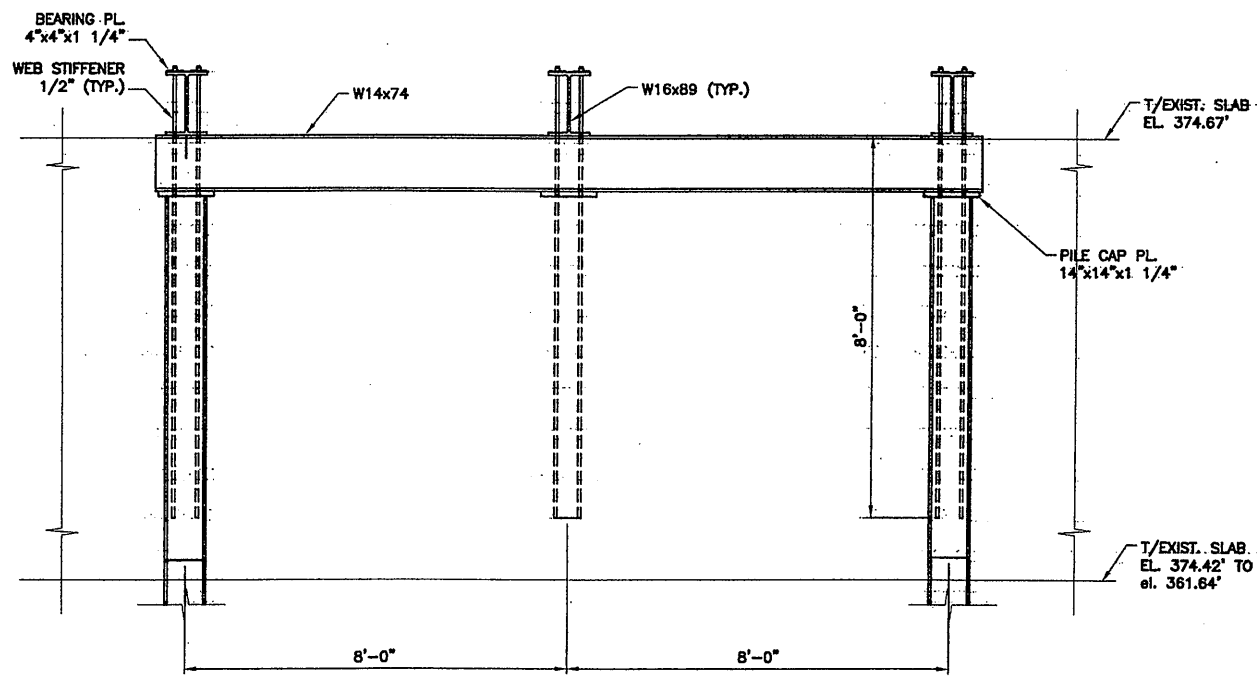
SECTIONS & DETAILS
STRUCTURAL



CHEMICAL GALLERY PILE PLAN
SCALE: 1/8"=1'-0"



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



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

- NOTES:
- ALL NEW STEEL BEAMS, STEEL PLATES AND STEEL BARS USE ASTM, A 527, GRADE 50 STEEL.
 - CONTRACT 4A SHALL PROVIDE TEMPORARY SHEETING AND BRACING, EXCAVATION, DEWATERING, DISPOSE OF MATERIALS, COMPACTED BACKFILL, FINISHED GRADING, RESTORATION OF SURFACES, AND RELATED WORK AS REQUIRED TO COMPLETE THE WORK. CONTRACT 4A TO CUT OFF PILES AND INCLUDE STEEL WORK SHOWN. CONTRACT NO. 3 WILL CUT PILES OFF ABOVE GRADE.

RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/2/05 PER: RCG

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03/30/01 OBG RAE
0659s610.DWG

1/8"=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

No.	Date	Revisions	Init
0	4/20/01	ISSUED FOR APPROVAL	
1	7/19/01	AS BID	
2	11/30/05	RECORD DRAWING	RCG

In. charge of TWS
Designed by TWS
Drawn by RAE
Checked by CMT

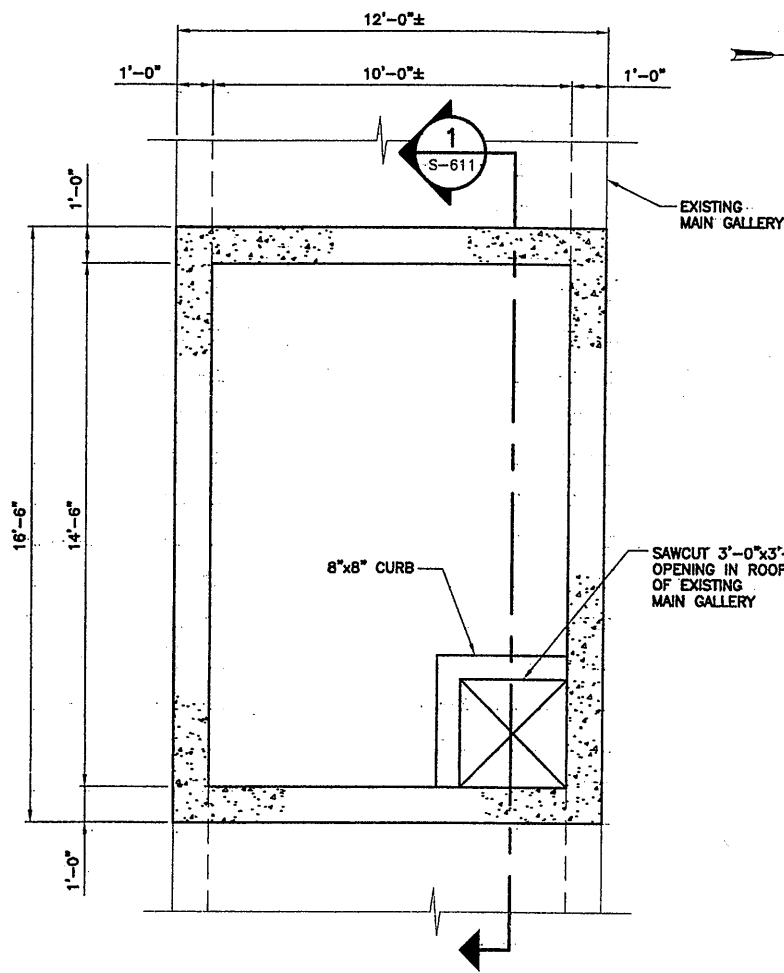
ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
EXISTING CHEMICAL GALLERY

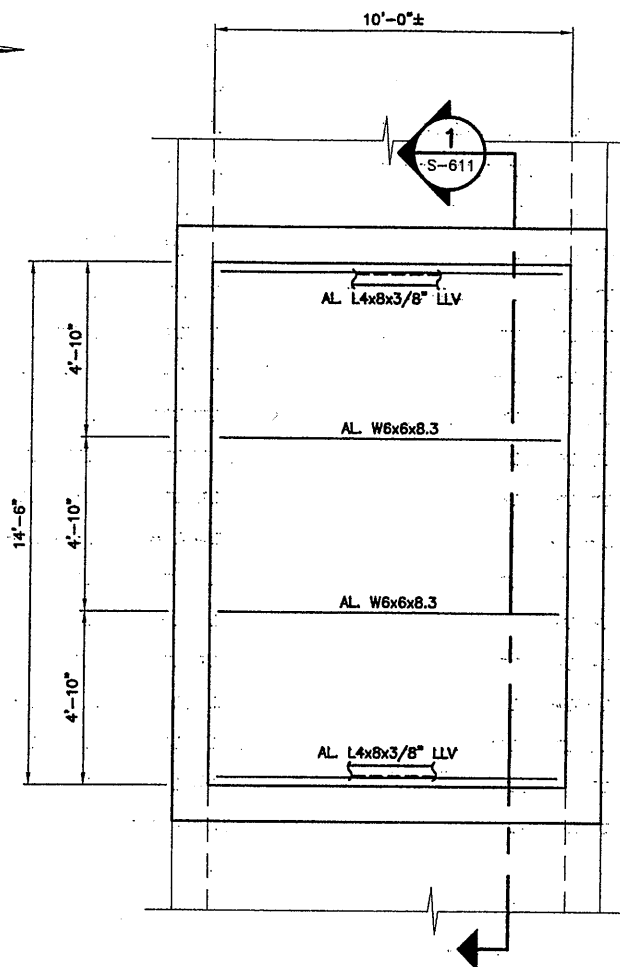
PILE PLAN & SECTIONS
STRUCTURAL

STATE OF NEW YORK
THOMAS W. STORIE
LICENSED PROFESSIONAL ENGINEER
022925

File Number: 00659
Date: APRIL 2001
S-610

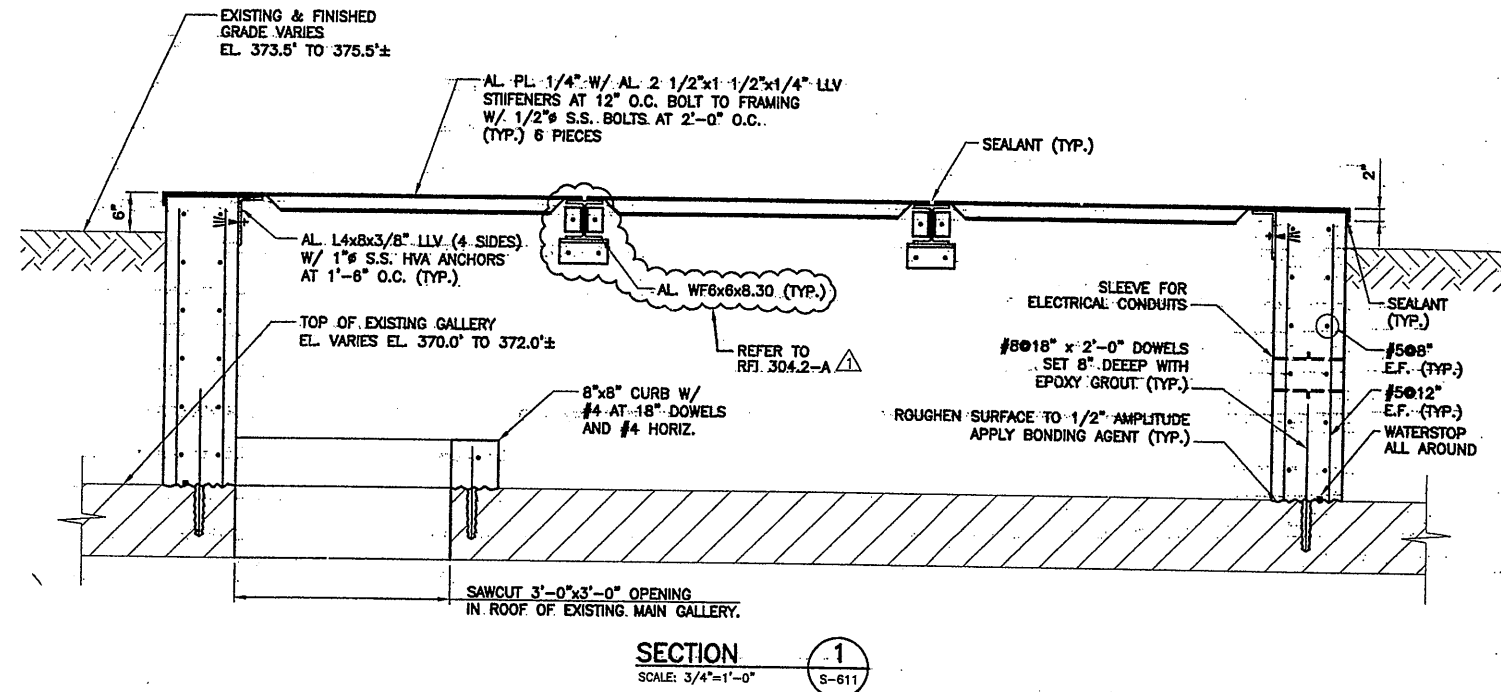


PLAN AT TOP OF GALLERY
SCALE: 3/8"=1'-0"



PLAN AT TOP OF HANDHOLE
SCALE: 3/8"=1'-0"

- PLAN NOTES:**
- COVER PLATE NOT SHOWN.
 - SEE E-010 FOR ELECTRICAL DETAILS (48).



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

07/3/01 OBG RAE
0659s611.DWG

No.	Date	Revisions	Init
0		AS BID	
1	10/31/05	RECORD DRAWING	RCG

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
EXISTING MAIN GALLERY ACCESS HANDHOLE

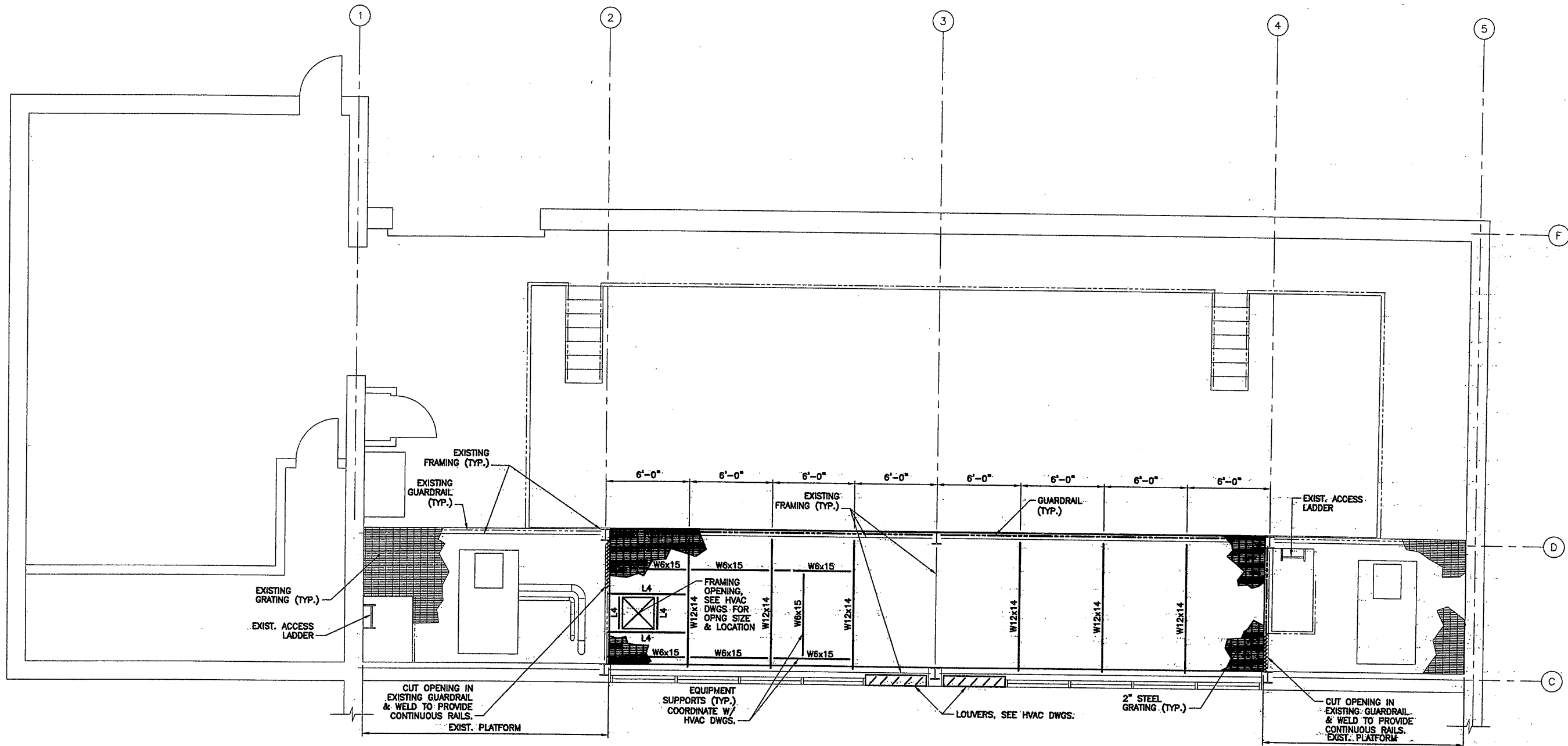


File Number
00659
Date
JUNE 2001

S-611

PLANS & SECTION
STRUCTURAL

RECORD DRAWING
THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/12/05 PER: RCG
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MEZZANINE FRAMING PLAN
SCALE: 1/4"=1'-0"

- PLAN NOTES:**
- ELEVATION TO MATCH EXISTING.
 - PAINT TO MATCH EXISTING PLATFORM.
 - GUARDRAIL TO MATCH EXISTING. PROVIDE ON NORTH AND SOUTH SIDES.
 - SEE H-710 FOR MECHANICAL DETAILS.
 - L4 DENOTES L4x4x3/8".

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

DATE: 11/20/05 PER: RCG

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

07/3/01 OBG RAE
0659a612.DWG.

No.	Date	Revisions	Init
0		AS BID	
1	10/31/05	RECORD DRAWING	RCG

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METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

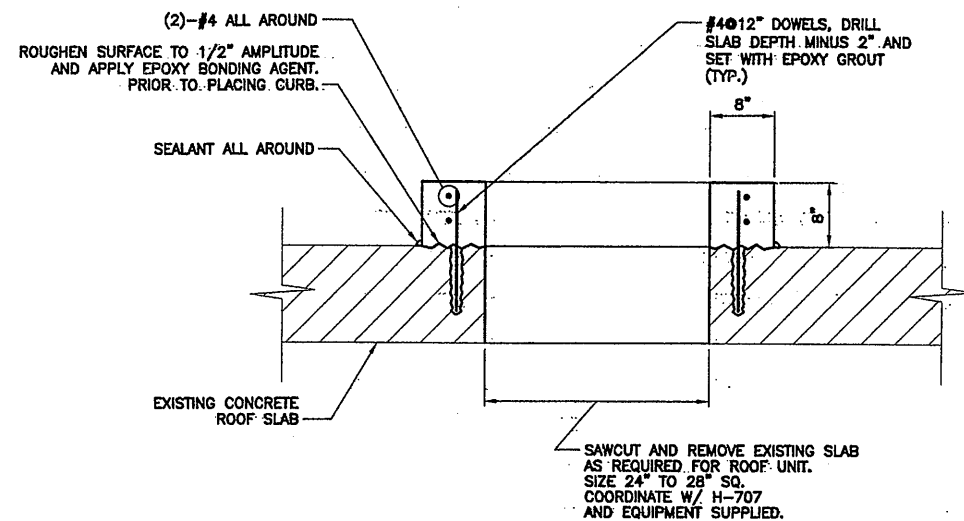
LOW-LIFT PUMP STATION
MEZZANINE
FRAMING PLAN
STRUCTURAL



File Number
00659
Date
JUNE 2001

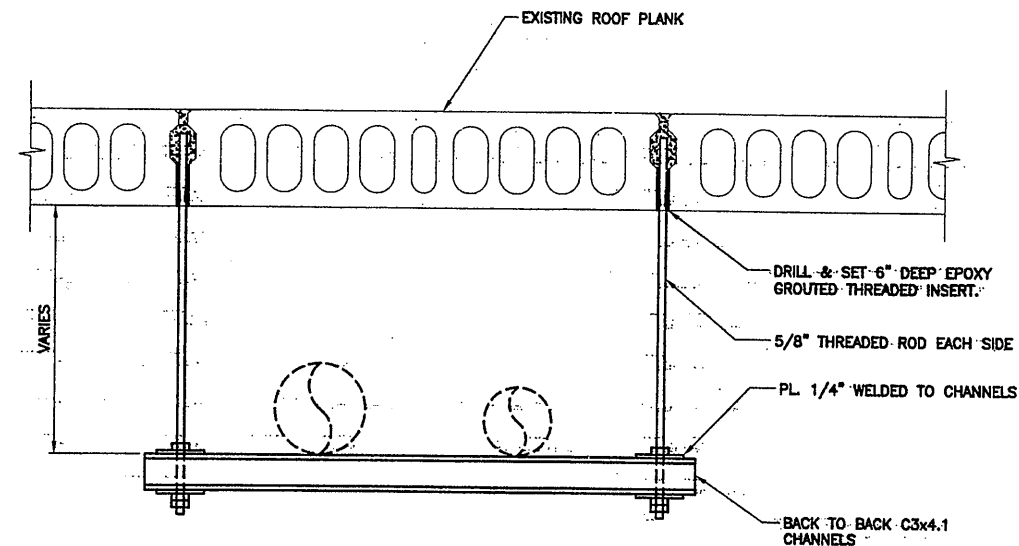
S-612

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



CONCRETE ROOF CURB DETAIL

NOT TO SCALE

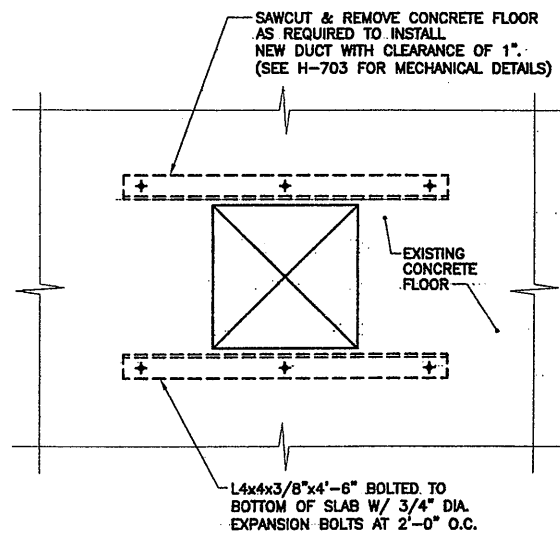


STEAM & CONDENSATE HANGER DETAIL - NSG

NOT TO SCALE

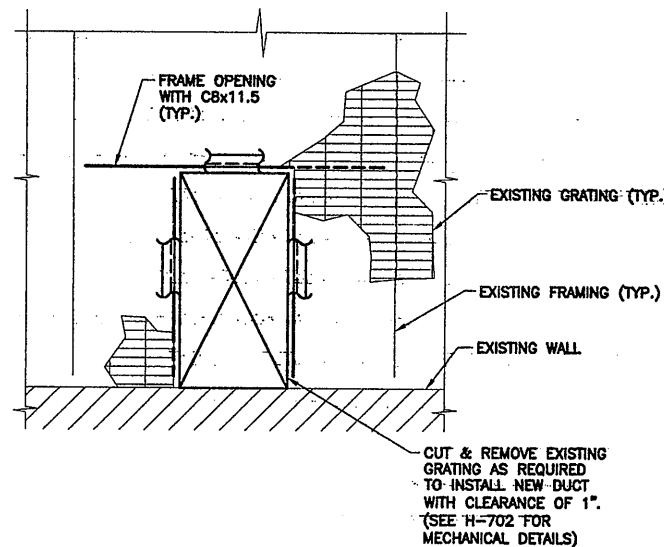
DETAIL NOTES:

1. SPACE AT 10'-0" O.C. MAXIMUM.
2. SEE HVAC DRAWING FOR DETAILS.



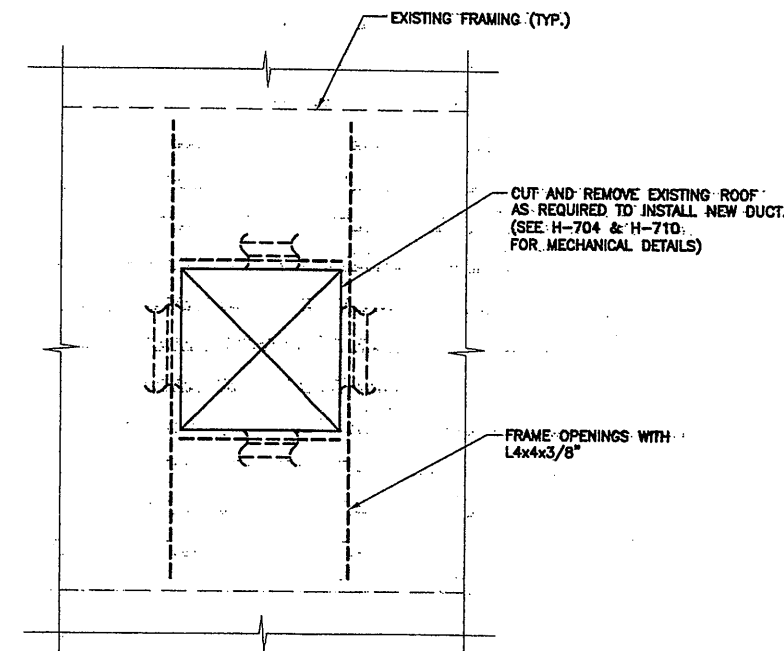
CONCRETE FLOOR PENETRATION DETAIL

NOT TO SCALE



GRATING PENETRATION DETAIL

NOT TO SCALE



ROOF PENETRATION DETAIL

NOT TO SCALE

DETAIL NOTES:

1. PROVIDE STRUCTURAL CURB AROUND OPENING.
2. PEEL BACK ROOF AND PROVIDE FLASHING, ROOFING, AND ALL ACCESSORIES AS REQUIRED BY ROOF WARRANTY (20 YEARS).

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

DATE: 12/12/05 PER: RAE

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07/3/01 OBG RAE
0659a613.DWG

No.	Date	Revisions	Init
0		AS BID	
1	10/31/05	RECORD DRAWING	RCG

In charge of: TWS
Designed by: TWS
Drawn by: RAE
Checked by: CMT



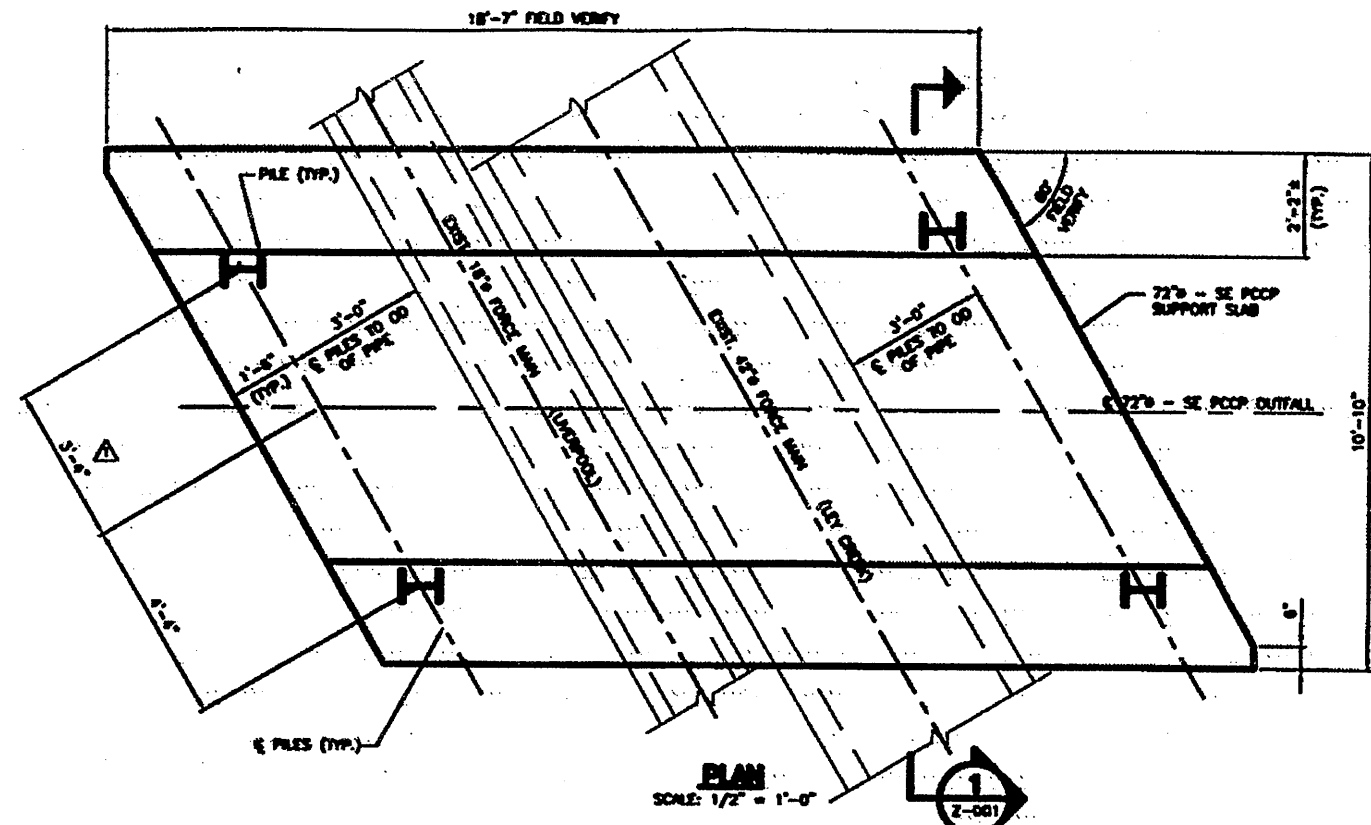
ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

PLANT OPERATIONS BUILDING
**MISCELLANEOUS
DETAILS**
STRUCTURAL

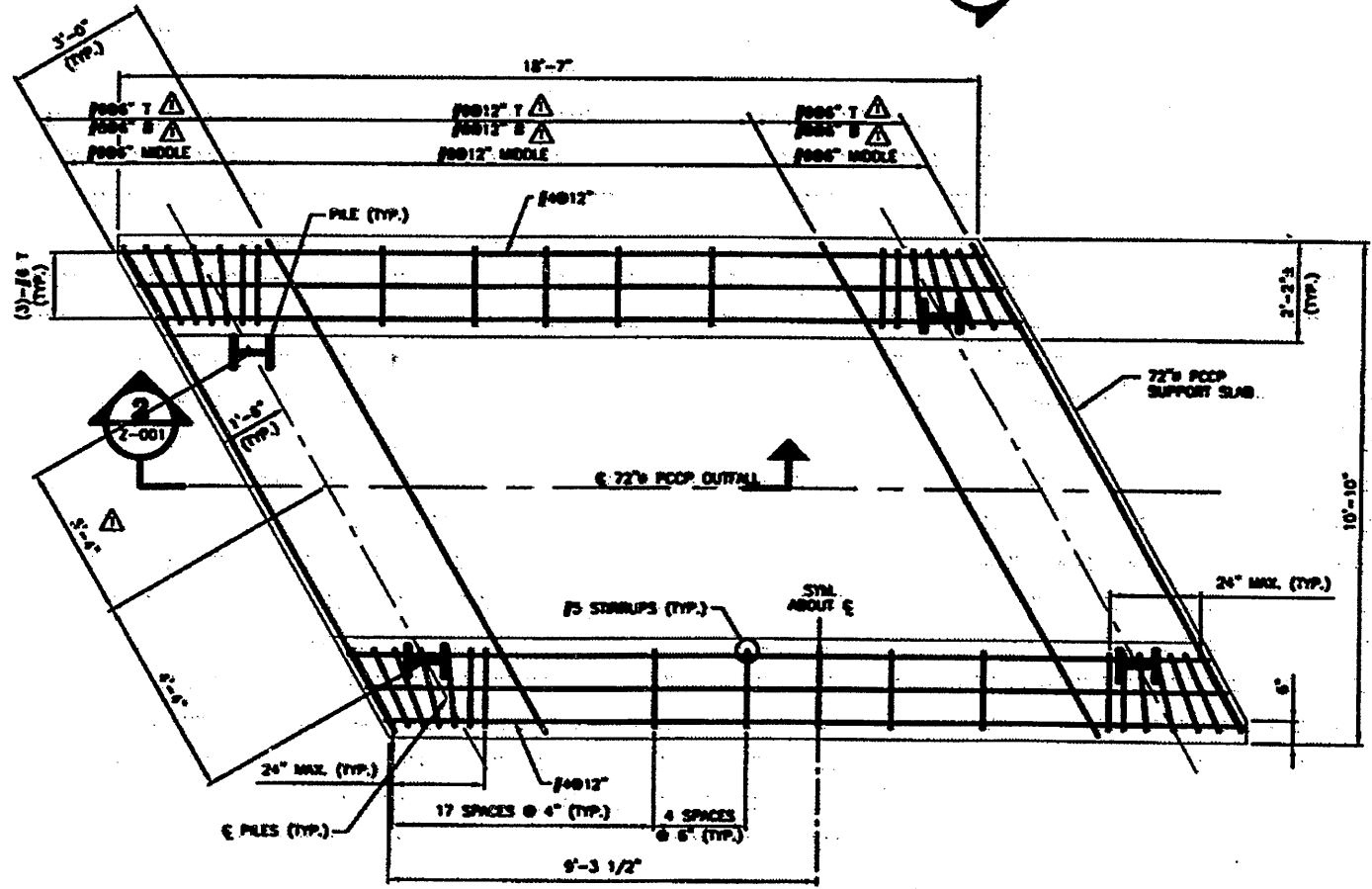


File Number 00659	S-613
Date JUNE 2001	

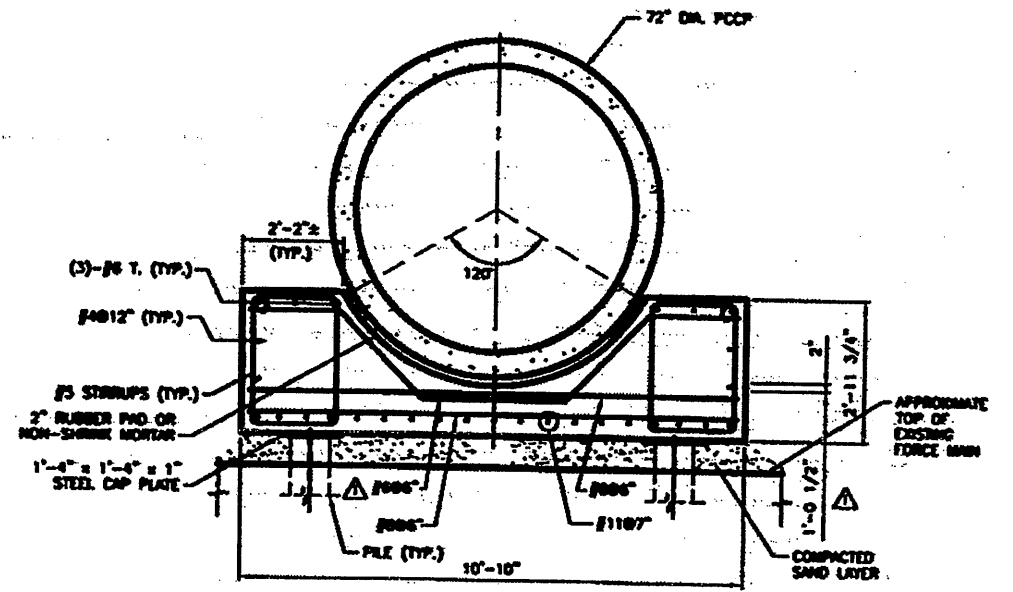
NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW



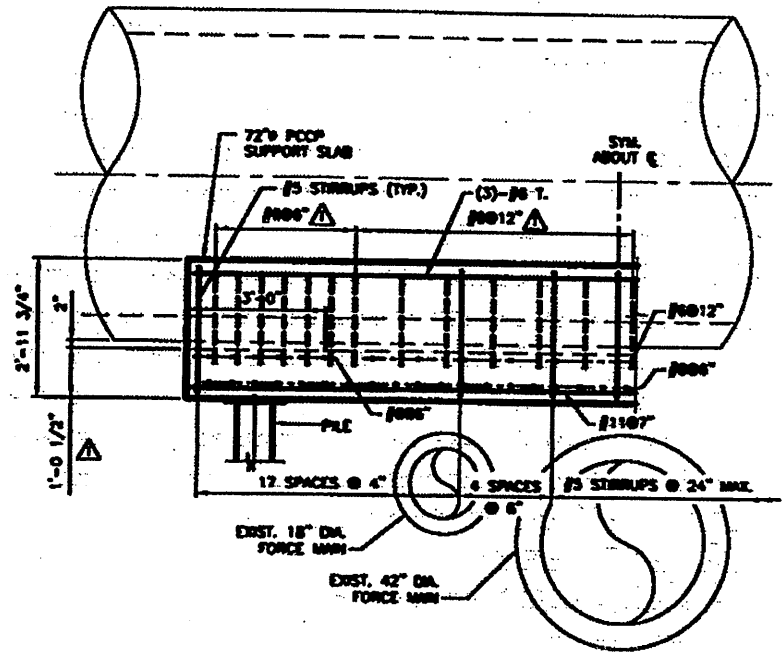
PLAN
SCALE: 1/2" = 1'-0"



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



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



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

RECORD DRAWING.

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.
DATE: 12/14/05 PER: RCG

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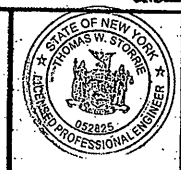
05/26/03 CBC RAC
0582081.DWG

No.	Date	Revisions
0	8/16/02	ISSUED FOR CONSTRUCTION
1	8/21/02	GENERAL REVISIONS - MOD 19, C2A, C3
2	11/30/05	RECORD DRAWING

In charge of	TWS
Designed by	PO
Drawn by	RAE
Checked by	TWS

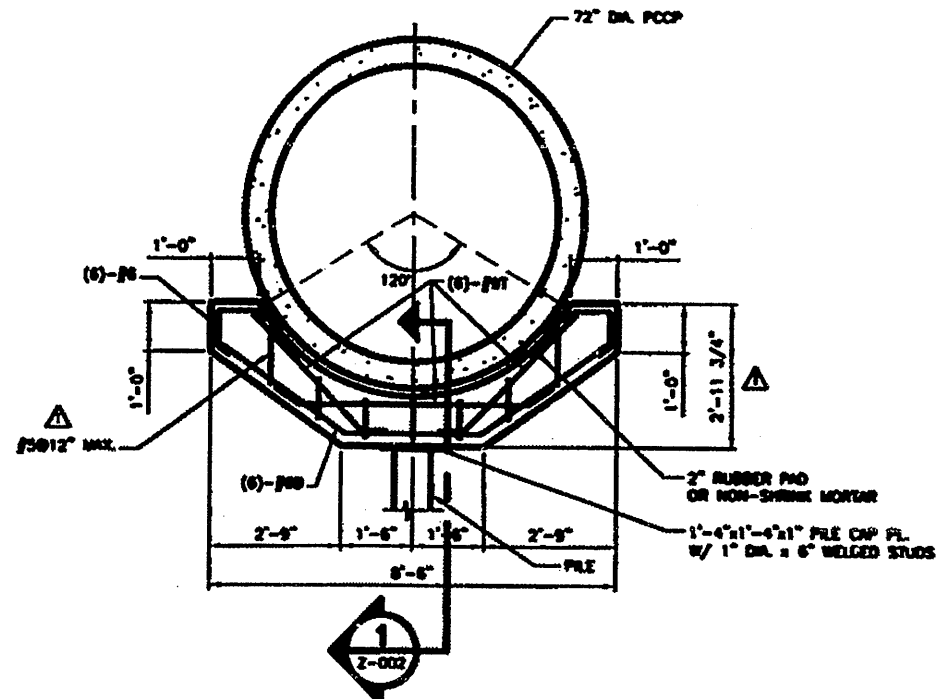
ENVIRONMENTAL ENGINEERS ASSOCIATES, L.L.P.
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT
72" SECONDARY EFFLUENT FORCE MAIN SUPPORT SLAB PLANS & SECTIONS
STRUCTURAL



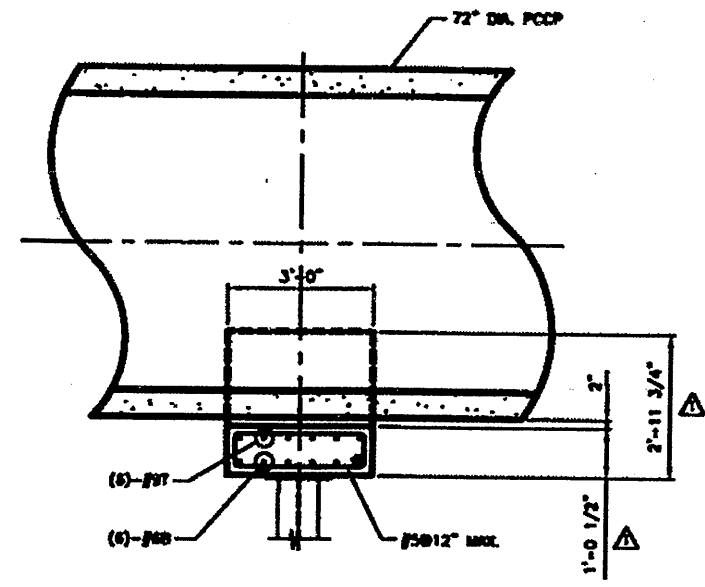
File Number	00659
Date	JUNE 2002
Signature	[Signature]

Z-001

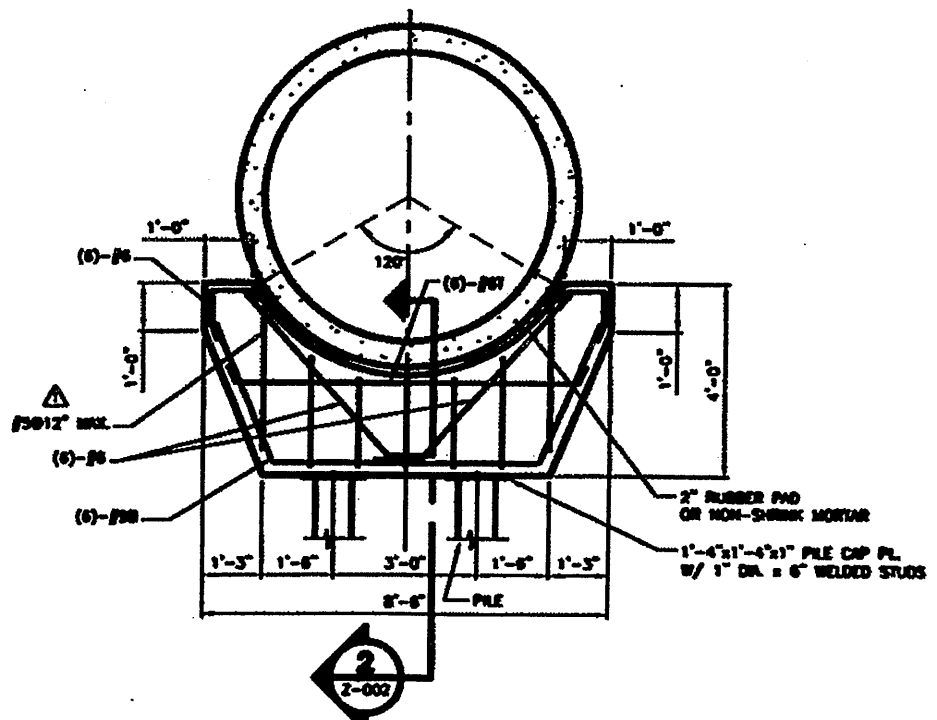


TYPICAL PILE CAP - PRESTRESSED CONG. CYLINDER PIPE (PCCP)
SCALE: 1/2" = 1'-0"

NOTE:
USE WITH ONE PILE AT 2155.25H STA. 3+55.13, AND 2152.22H STA. 3+70.06
1308.43E 1320.27E

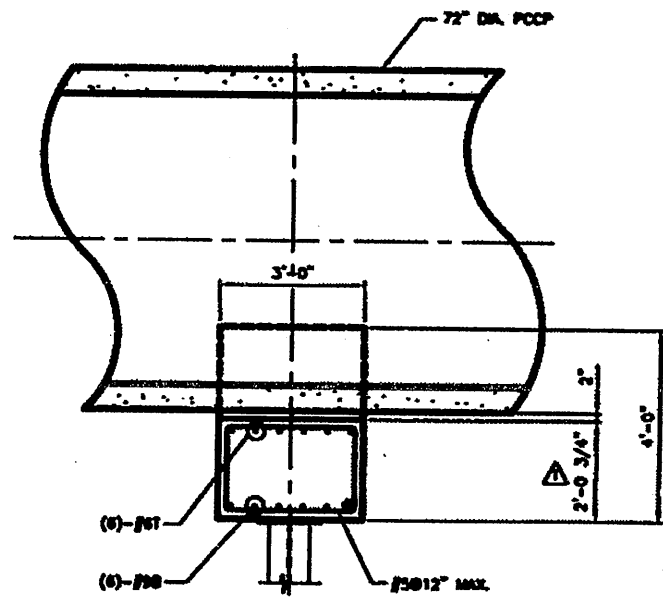


SECTION 1
SCALE: 1/2" = 1'-0"



TYPICAL PILE CAP - PRESTRESSED CONG. CYLINDER PIPE (PCCP)
SCALE: 1/2" = 1'-0"

NOTE:
USE WITH TWO PILES AT 2155.25H STA. 3+45.57, AND 2183.22H STA. 1+80.00
1298.88E 1151.08E



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

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

DATE: 12/1/05 PER: PEG

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05/26/02 OBC RAE
08582002.DWG

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No.	Date	Revisions	By
0	8/10/02	ISSUED FOR CONSTRUCTION	TWS
1	8/21/02	GENERAL REVISIONS - MOD 19, C2A, C3	PO

In charge of: TWS
Designed by: PO
Drawn by: RAE
Checked by: TWS

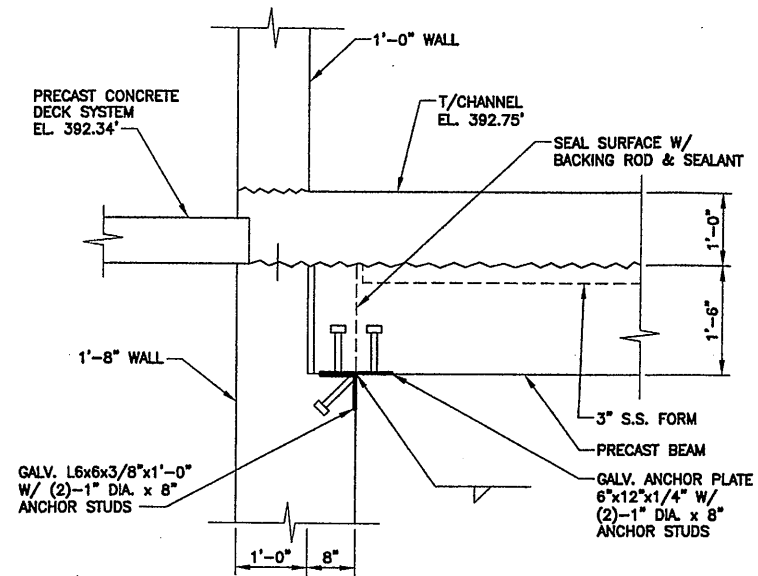
ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF DRAINAGE AND SANITATION • SYRACUSE, NEW YORK
METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT
STAGE III AMMONIA AND STAGE II PHOSPHORUS REMOVAL PROJECT

72" SECONDARY EFFLUENT FORCE MAIN PILE CAP SECTIONS
STRUCTURAL

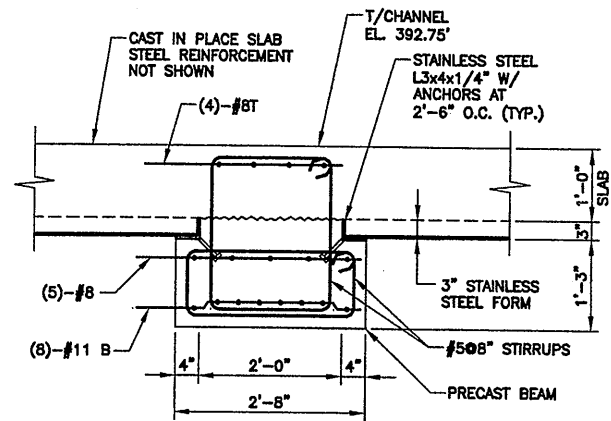
STATE OF NEW YORK
THOMAS W. STORER
LICENSED PROFESSIONAL ENGINEER
082825

File Number: 00659
Date: JUNE 2002
Z-002



PRECAST END BEARING DETAIL

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



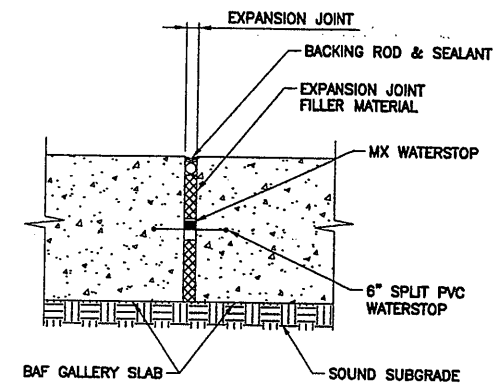
PRECAST BEAM SECTION

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

NOTES:

1. REFERENCED DWGS: SEE S-200 SERIES DRAWINGS AND CONTRACT DOCUMENTS FOR DETAILS NOT SHOWN.
2. PRECAST BEAM IS DESIGNED FOR UNSHORED CONSTRUCTION TO SUPPORT 1'-0" CAST IN PLACE CHANNEL SLAB AT EL. 392.75'. DEAD LOADS AND A 50 PSF CONSTRUCTION LIVE LOAD.
3. CAMBER PRECAST BEAMS + 5/8" AT CENTER LINE.
4. 28 DAY CONCRETE COMPRESSIVE STRENGTH = 4,500 PSI
STEEL REINFORCEMENT GRADE 60 = 60,000 PSI

ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP SYRACUSE, NEW YORK	
ONONDAGA COUNTY DEPARTMENT OF WATER PROTECTION ENVIRONMENT METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT	
MODIFICATION NO. 4A-019 SECTION & DETAIL	DWG NO Z-3



SLAB JOINT DETAIL

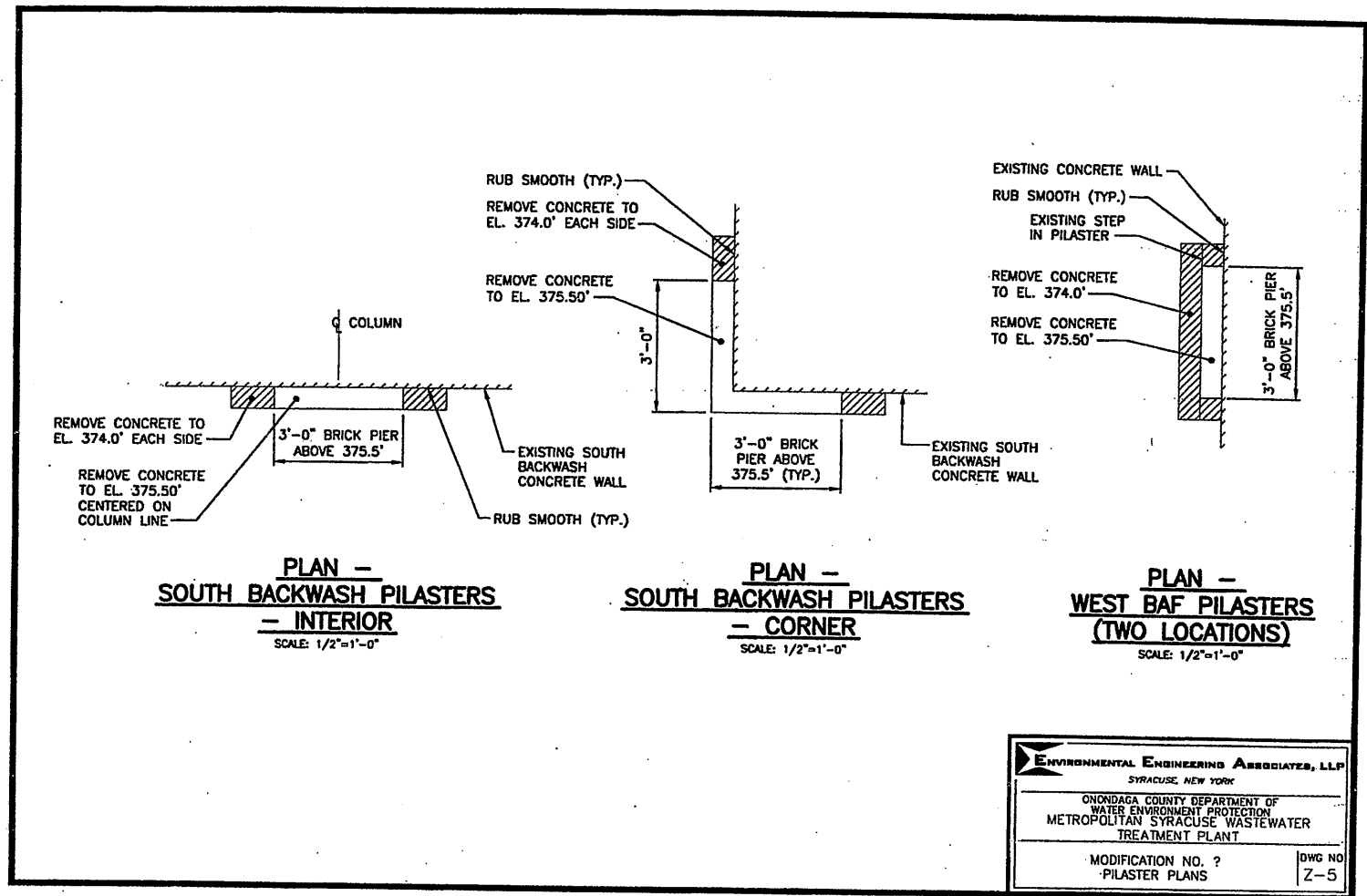
NOT TO SCALE

ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP SYRACUSE, NEW YORK	
ONONDAGA COUNTY DEPARTMENT OF WATER PROTECTION ENVIRONMENT METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT	
NH3 - BAF GALLERY RFI'S 245 & 250 DETAIL	DWG NO Z-4

RECORD DRAWING

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DATE: 12/12/05 PER: *RCG*



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SYRACUSE, NEW YORK

ONONDAGA COUNTY DEPARTMENT OF
WATER ENVIRONMENT PROTECTION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

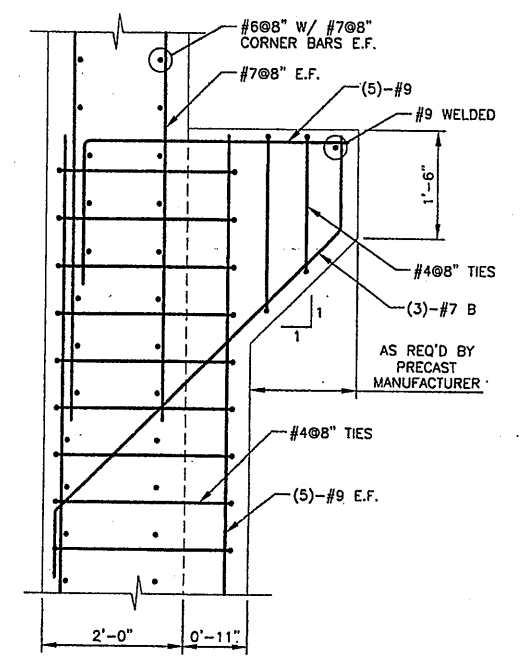
MODIFICATION NO. ? DWG NO
PILASTER PLANS Z-5

RECORD DRAWING

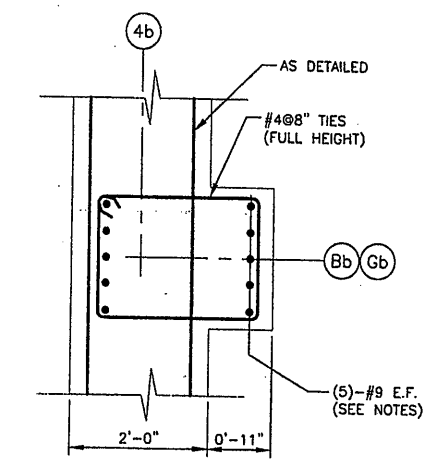
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DATE: 12/17/05 PER: *PCG*

ONE PAIR C/VEA/DR-EA-2.DWG



DETAIL
SCALE: 3/4"=1'-0"
A
SK-MOD-1



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

- SECTION NOTES:**
1. PROVIDE (5)-#9 E.F. FROM TOP OF PILASTER TO BOTTOM OF SLAB AT EL. 364.50' USING (5)-#9 DOWELS E.F.
 2. USE DETAILED #7@8" E.F. VERTICAL ABOVE TOP OF PILASTER WITH 4'-0" SPLICE LAP BELOW TOP OF PILASTER.
 3. REFERENCED DWGS S-226, SECTIONS 1 & 2 S-227, SECTION 2

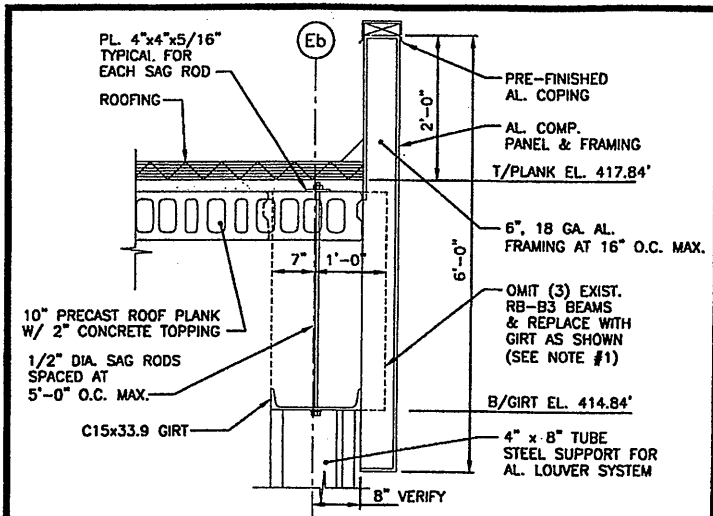
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DOCUMENT.

PLOT DATE: 5/2/02	IN CHARGE OF	TWS					METROPOLITAN SYRACUSE WASTEWATER TREATMENT PLANT MODIFICATIONS SECTION & DETAIL	FILE NO.	00659	SK-MOD- 2
	DESIGNED BY	TWS	CHECKED BY	TWS				DATE	JUNE 3, 2002	
	DRAWN BY	RAE								
			NO.	DATE	REVISION	INIT.				

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

DATE: 12/12/05 PER: RCG



SECTION 1
SCALE: 3/4"=1'-0"
S-222

- SECTION NOTES:**
1. OMIT (3) PRECAST BEAMS ALONG Eb LINE BETWEEN Bb AND 22b.
 2. LOCATIONS OF LOUVER SYSTEM, AL. COMP. PANEL AND FR. TO REMAIN THE SAME. COORDINATE WITH GIRT LOCATION.
 3. EXTEND ROOFING AND PLANK TO AL. FRAMING
 4. GIRT & SAG RODS SHALL BE COATED TO MATCH SCREEN WALL.
 5. AL. FRAMING SHALL BE SUPPORTED BY PLANK AND GIRT CONNECTED WITH CLIP ANGLES & FASTENERS.
 6. CONNECT LOUVER COLUMNS TO GIRT WITH CLIP ANGLES AND BOLTS.
 7. CONNECT C15'S TO PRECAST WITH CLIP ANGLES. LOCATE BOLTS TO AVOID STEEL REINFORCEMENT.
 8. COORDINATE LOCATION OF LOUVER SYSTEM, COMP. PANEL, PRECAST & C15 GIRT.

REF. SECTION 1/A-507
SECTION 2/S-234
CONSTR. MOD. #85
ISSUED 11/02 - FIGS. 1 & 2

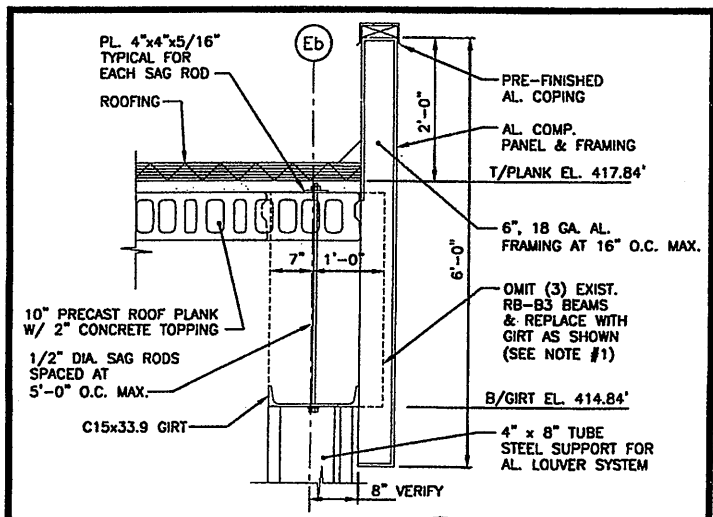
MODIFICATION No.
4A-085

ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY DEPARTMENT OF
WATER ENVIRONMENT PROTECTION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIGURE
1



SECTION 1
SCALE: 3/4"=1'-0"
S-222

- SECTION NOTES:**
1. OMIT (3) PRECAST BEAMS ALONG Eb LINE BETWEEN Bb AND 22b.
 2. LOCATIONS OF LOUVER SYSTEM, AL. COMP. PANEL AND FR. TO REMAIN THE SAME. COORDINATE WITH GIRT LOCATION.
 3. EXTEND ROOFING AND PLANK TO AL. FRAMING
 4. GIRT & SAG RODS SHALL BE COATED TO MATCH SCREEN WALL.
 5. AL. FRAMING SHALL BE SUPPORTED BY PLANK AND GIRT CONNECTED WITH CLIP ANGLES & FASTENERS.
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 7. CONNECT C15'S TO PRECAST WITH CLIP ANGLES. LOCATE BOLTS TO AVOID STEEL REINFORCEMENT.
 8. COORDINATE LOCATION OF LOUVER SYSTEM, COMP. PANEL, PRECAST & C15 GIRT.

REF. SECTION 1/A-507
SECTION 2/S-234
CONSTR. MOD. #85
ISSUED 11/02 - FIGS. 1 & 2

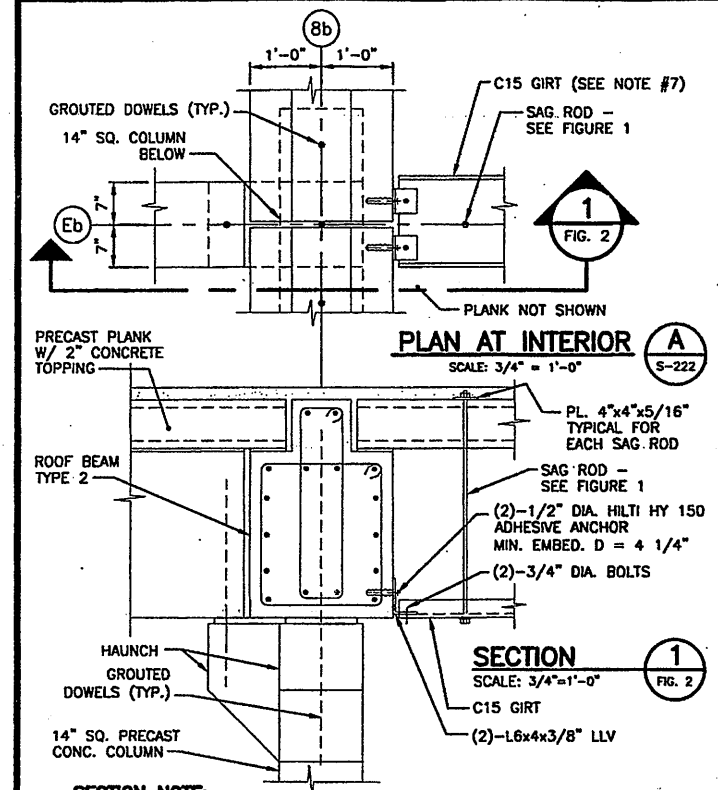
MODIFICATION No.
4A-085

ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY DEPARTMENT OF
WATER ENVIRONMENT PROTECTION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIGURE
1



PLAN AT INTERIOR A
SCALE: 3/4"=1'-0"
S-222

REF. PLAN AT INTERIOR C/S-234
SECTION 5/S-234
CONSTR. MOD. #85
ISSUED 11/02 - FIGS. 1 & 2

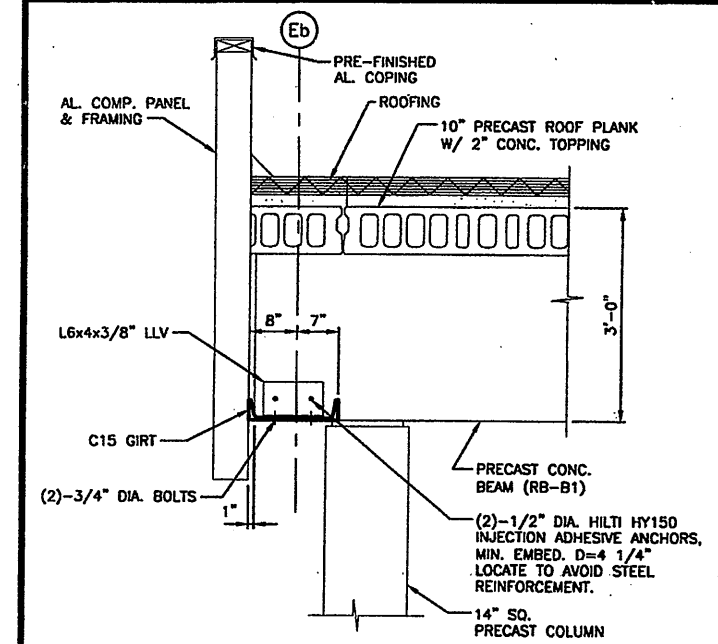
MODIFICATION No.
4A-085

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SYRACUSE, NEW YORK

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WATER ENVIRONMENT PROTECTION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIGURE
2



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

REF. DWG. S-222
SECTION 2/S-225
CONSTR. MOD. #85
ISSUED 11/02 - FIGS. 1 & 2

MODIFICATION No.
4A-085

ENVIRONMENTAL ENGINEERS ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY DEPARTMENT OF
WATER ENVIRONMENT PROTECTION
METROPOLITAN SYRACUSE WASTEWATER
TREATMENT PLANT

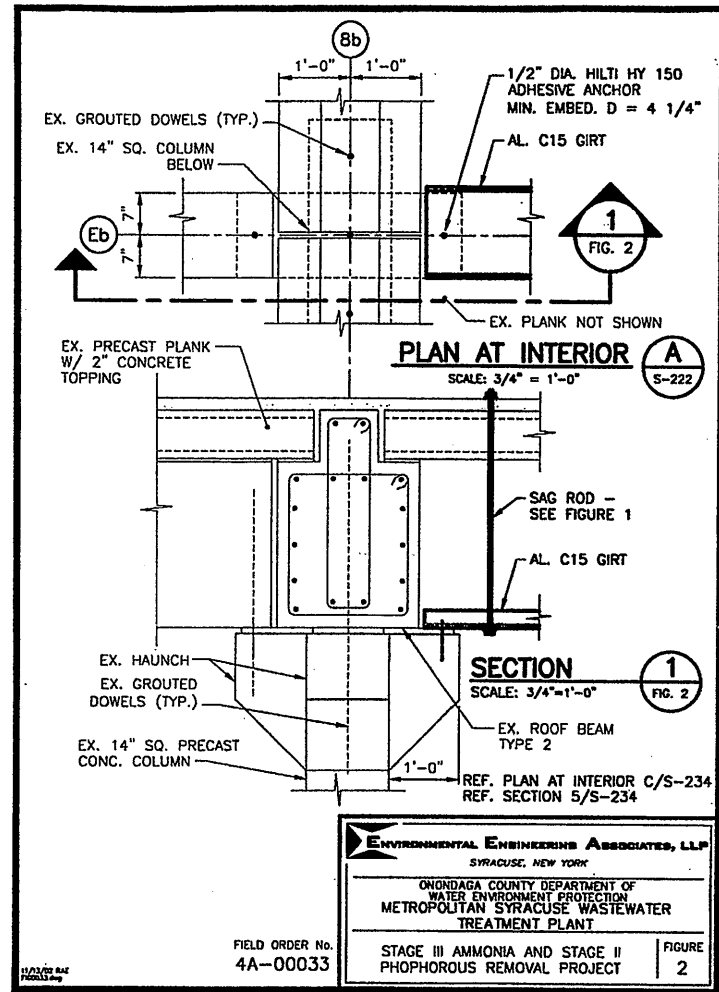
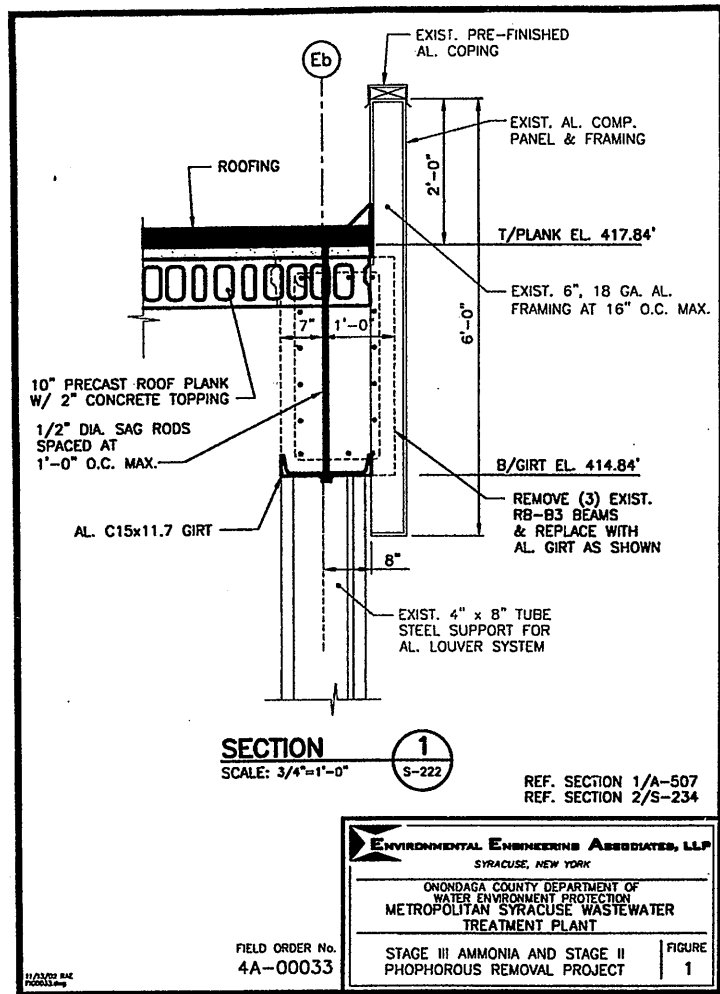
STAGE III AMMONIA AND STAGE II
PHOSPHOROUS REMOVAL PROJECT

FIGURE
4

RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

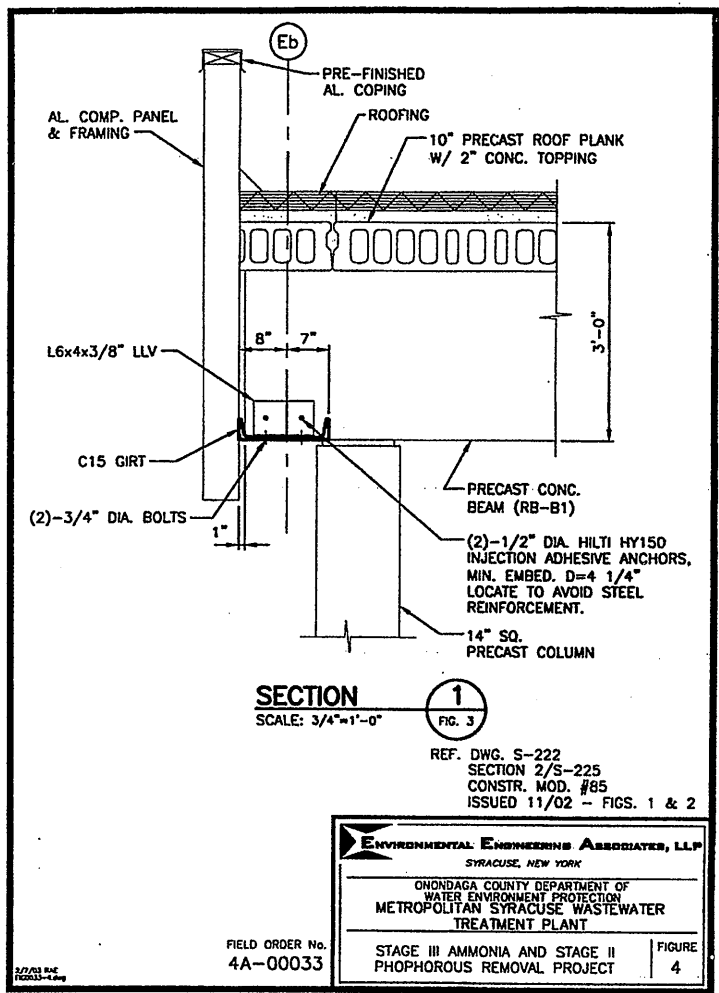
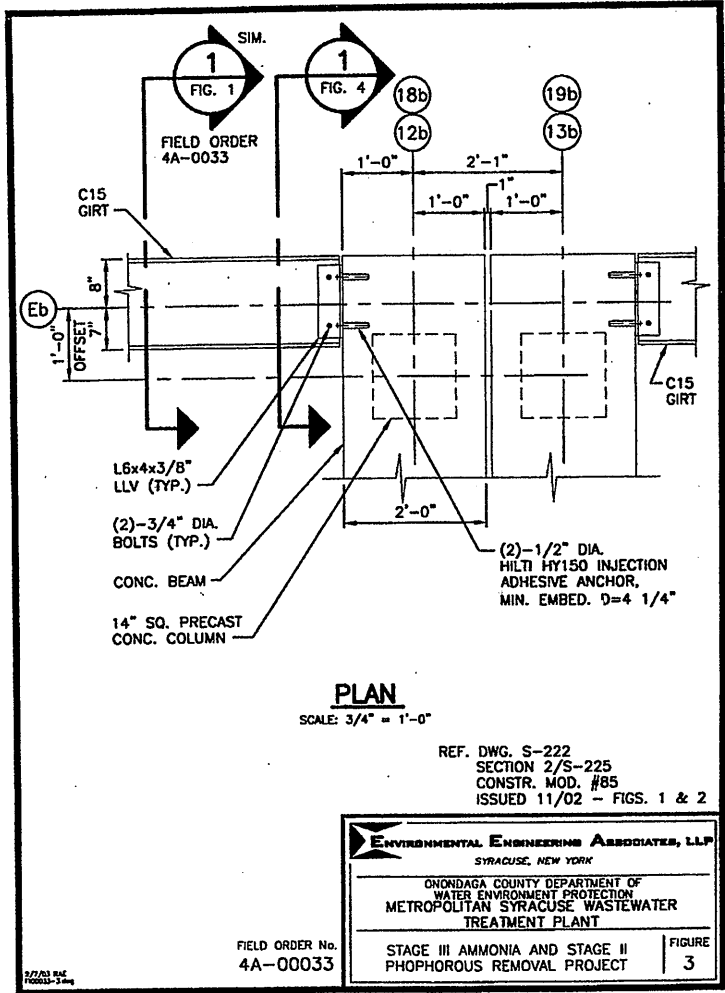
DATE: 12/12/05 PER: RCG



RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

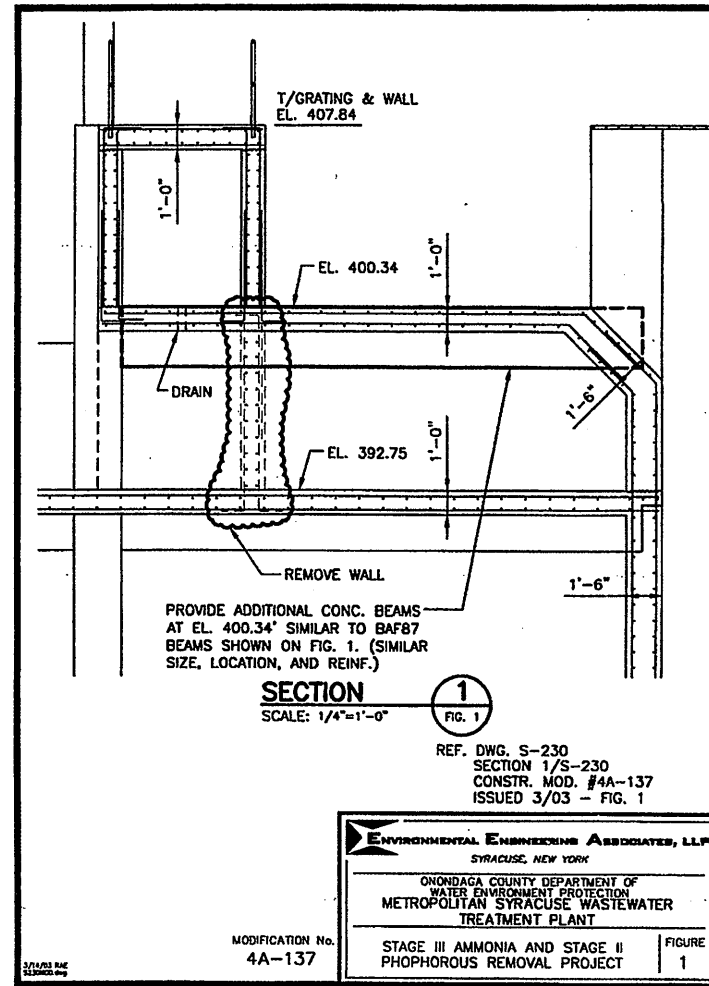
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RECORD DRAWING

THESE DRAWINGS HAVE BEEN REVISED TO REFLECT MAJOR CHANGES, IF ANY, WHICH OCCURRED DURING CONSTRUCTION. REVISIONS ARE BASED UPON INFORMATION SUPPLIED BY CONTRACTOR.

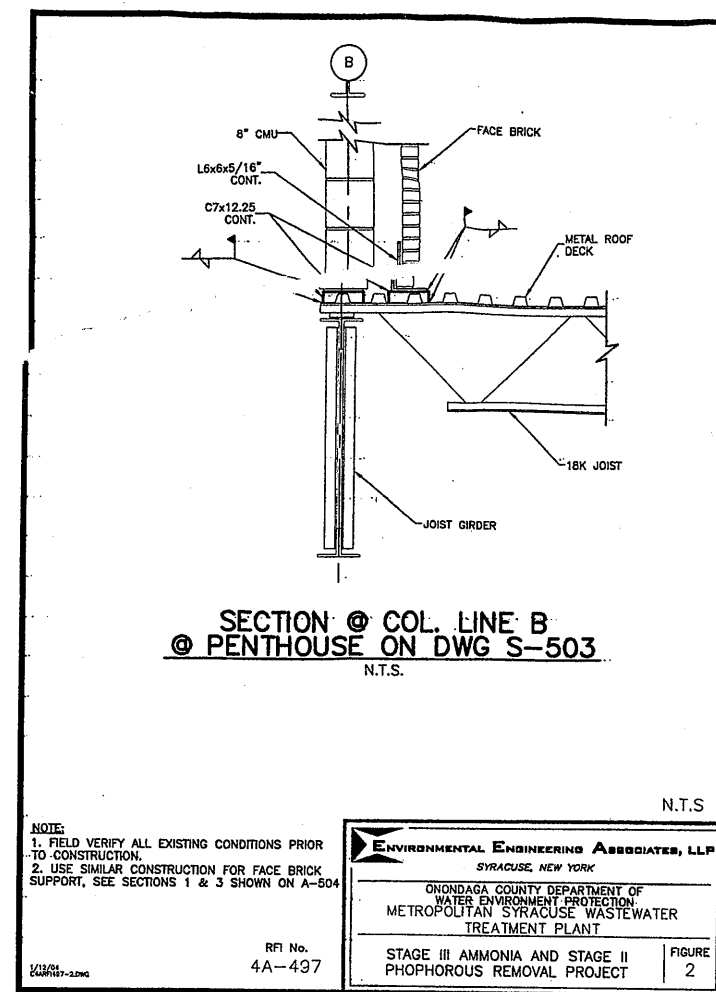
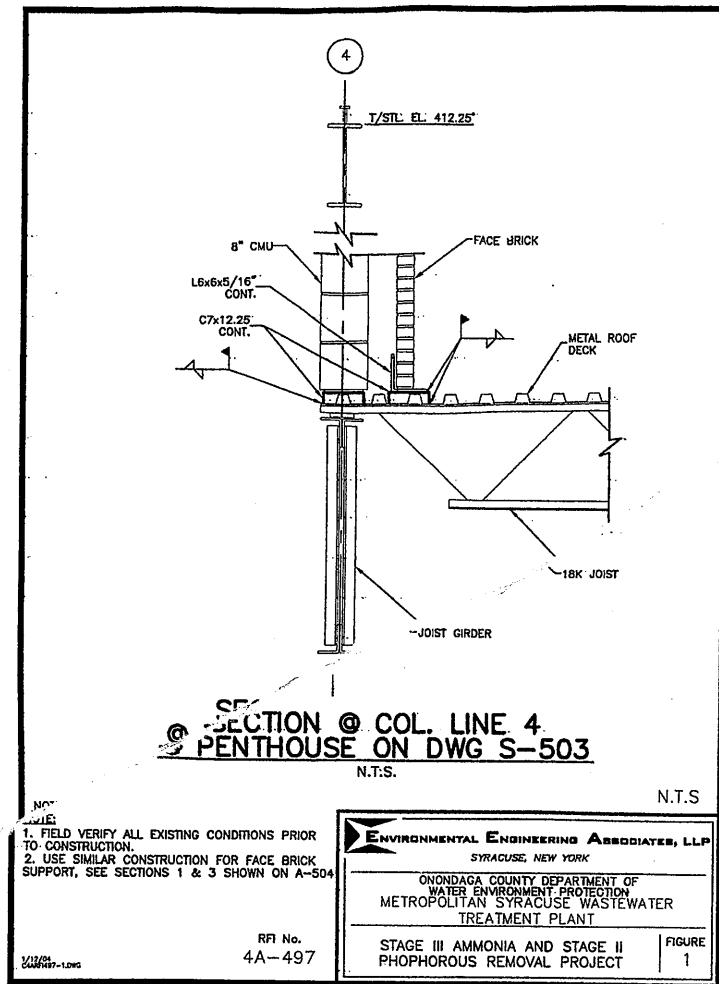
DATE: 12/12/05 PER: PCG



RECORD DRAWING

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DATE: 12/12/05 PER: [Signature]