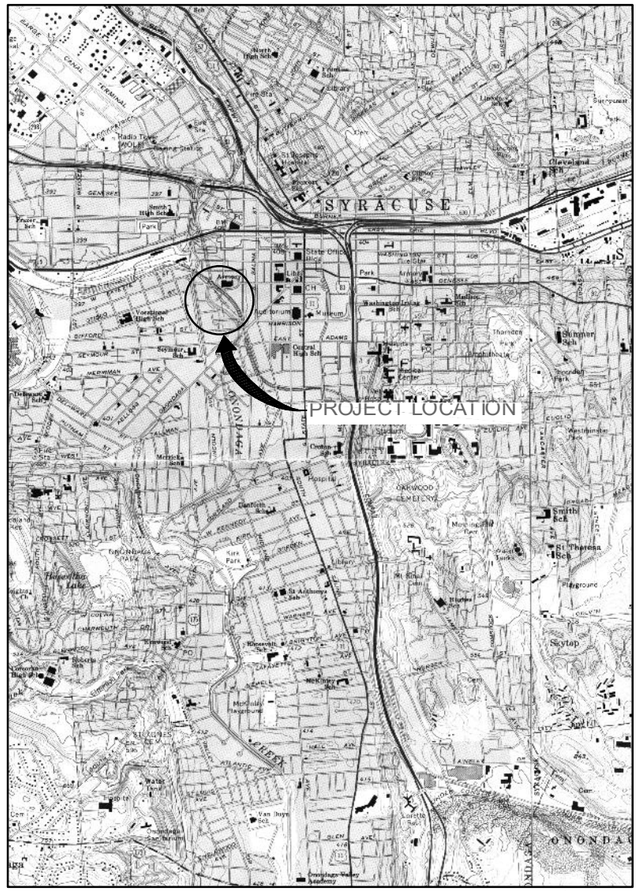
CLINTON CSO
STORAGE FACILITY PROJECT



LOCATION MAP

CONTRACT NO. 7
BID REFERENCE NO. 7234
PROJECT NO. 587960

COUNTY OF ONONDAGA
DEPARTMENT OF WATER ENVIRONMENT PROTECTION

TOM RHOADS, P.E., COMMISSIONER

APRIL 2011 (CONFORMED APRIL 2012)

STATE OF NEW YORK
GERALD C. ROOK
No. 67504
LICENSED PROFESSIONAL ENGINEER

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 5/16 PER: RCF

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ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
03/03/11 GHD RWS
DIR/DWG

SCALE: NONE

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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

In charge of RCF
Designed by RWS
Drawn by RWS
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

INDEX OF DRAWINGS

GENERAL

STATE OF NEW YORK · GERALD C. HOOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G-001

LEGEND:

- ABOVEGROUND STRUCTURE
- BELOWGROUND STRUCTURE
- PAVEMENT
- SIDEWALK
- SAN — SANITARY SEWER LINE
- ST — STORM SEWER LINE
- FM — SANITARY FORCE MAIN
- PW — POTABLE WATER MAIN
- PLW — PLANT WATER MAIN
- W — WATER MAIN
- CHAIN LINK FENCE
- x — x — TEMPORARY CONSTRUCTION FENCE
- SILT FENCE
- 390 — REGRADED CONTOUR
- LIMITS OF CONSTRUCTION
- G — GAS LINE
- SWALE DRAINAGE
- PERMANENT/TEMPORARY EASEMENT AND FEE PARCEL
- X OR — EXISTING FEATURE TO BE ABANDONED OR REMOVED
- BOLLARD
- BULKHEAD
- CO — CLEAN OUT
- CB — CATCH BASIN
- MH-1 — SANITARY SEWER MANHOLE
- DMH-1 — STORM SEWER MANHOLE
- UP — UTILITY POLE
- LIGHT POLE
- WATER VALVE
- FIRE HYDRANT
- SURVEY CONTROL POINT

EXISTING LEGEND

- G — EXISTING GAS LINE
- FM — EXISTING SANITARY FORCE MAIN
- R — EXISTING PROPERTY LINE
- PW — EXISTING POTABLE WATER MAIN
- PLW — EXISTING PLANT WATER MAIN
- SAN — EXISTING SANITARY SEWER LINE
- EXISTING RIGHT OF WAY
- ST — EXISTING STORM SEWER LINE
- O.H.E. — EXISTING OVERHEAD ELECTRIC LINE
- O.H.U. — EXISTING OVERHEAD UTILITY LINE
- O.H.E. & O.H.U. — EXISTING OVERHEAD ELECTRIC & UTILITY LINE
- x — x — EXISTING CHAIN LINK FENCE
- EXISTING WOOD FENCE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF WATER
- 390 — EXISTING CONTOUR
- U.G.E. — EXISTING UNDERGROUND ELECTRIC
- U.G.T. — EXISTING UNDERGROUND TELEPHONE
- X — EXISTING SPOT ELEVATION
- HA-101 — EXISTING SOIL/TEST BORING
- CB-1 — EXISTING CATCH BASIN
- MH-1 — EXISTING SANITARY SEWER MANHOLE
- ST MH-1 — EXISTING STORM SEWER MANHOLE
- MW — EXISTING MONITORING WELL
- U.P. — EXISTING UTILITY POLE
- L.P. — EXISTING LIGHT POLE
- HYD. — EXISTING HYDRANT
- TE-1 — EXISTING TEST EXCAVATION
- EXISTING WATER VALVE
- EXISTING BUILDING STRUCTURE
- EXISTING BRUSH LINE
- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE
- SIGN — EXISTING ROAD SIGN
- L.P. — EXISTING LIGHT POST
- EXISTING BOLLARD
- SV — EXISTING SEWER VENT
- GV — EXISTING GAS VENT
- TW-110 — EXISTING PUMPING/TEST WELL

PROTECTION OF UTILITIES:

1. THE APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE TRUE LOCATION PRIOR TO COMMENCING WORK. BEFORE ANY PIPE IS INSTALLED, THE CONTRACTOR SHALL UNCOVER ALL UTILITIES AT PIPE CROSSINGS TO ENABLE THE OWNER'S REPRESENTATIVE TO VERIFY THE PROPOSED PIPE WITH GRADES SHOWN ON THE PLANS IS NOT OBSTRUCTED BY EXISTING UTILITIES. DIG SAFELY AT 1-800-962-7962 SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATING, PROTECTION, RELOCATION, AND/OR MAINTENANCE OF UNDERGROUND AND OVERHEAD UTILITIES WHICH MAY BE IMPACTED DURING CONSTRUCTION. ALL UTILITIES, UNLESS STATED OTHERWISE, SHALL REMAIN FUNCTIONAL DURING THE PROGRESSION OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE ALL WORK AFFECTING UTILITIES WITH THE RESPECTIVE UTILITY SERVICE PROVIDER. ALL DETAILS OF CONSTRUCTION AND/OR RELOCATION SHALL BE APPROVED BY THE UTILITY SERVICE PROVIDER AND OTHER APPROVING AGENCIES IF REQUIRED.

3. THE CONTRACTOR SHALL VERIFY LOCATION, SIZE AND JOINT TYPE OF EXISTING PIPES AT CONNECTION LOCATIONS PRIOR TO CONSTRUCTION.

4. ALL PIPE ELEVATIONS GIVEN ARE INVERT ELEVATIONS, UNLESS SPECIFIED OTHERWISE.

5. EXISTING PIPELINES OR MANHOLES/STRUCTURES TO BE ABANDONED SHALL BE PLUGGED AT EACH END IF APPLICABLE AND FILLED WITH FLOWABLE FILL.

6. THE CONTRACTOR SHALL NOTIFY RESIDENCES AND/OR BUSINESSES TO BE AFFECTED BY HIS CONSTRUCTION ACTIVITIES IN WRITING ONE WEEK PRIOR TO CONSTRUCTION AND 48 HOURS PRIOR TO SHUTDOWN OF SEWER AND/OR WATER SERVICES.

FLOW STREAM DESIGNATIONS

ACS	WEST ONONDAGA ST – EAST CONVEYANCE SEWER
COMB	COMBINED SEWER
EFF	EFFLUENT
DFM	DEWATERING FORCE MAIN
ECD	EMERGENCY CONTROLLED DIVERSION
G	GAS
JCS	WEST JEFFERSON STREET CONVEYANCE SEWER
MIS	MAIN INTERCEPTOR SEWER
MST	MAIN INTERCEPTOR SEWER TAP
PLW	PLANT WATER
PW	POTABLE WATER
SAN	SANITARY SEWER
SPD	SUMP PUMP DISCHARGE
ST	STORM SEWER
TCS	TULLY STREET CONVEYANCE SEWER
W	WATER
WCS	WEST STREET CONVEYANCE SEWER
WSCS	WEST STREET CONVEYANCE SEWER

PIPE MATERIAL:

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

ABBREVIATIONS:

BLDG	BUILDING
BC	BOTTOM OF CURB
BS	BOTTOM OF SLOPE
CB	CATCH BASIN
℄	CENTERLINE
CLF	CHAIN LINK FENCE
C.O.	CLEAN OUT
CSO	COMBINED SEWER OVERFLOW
CRS	CONTROLLED RELEASE STRUCTURE
CY	CUBIC YARD
ø or DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DWG	DRAWING
E. PAV'T	EDGE OF PAVEMENT
ELEC.	ELECTRIC, ELECTRICAL
EL	ELEVATION
EX	EXISTING
FM	FORCE MAIN
HMA	HOT MIX ASPHALT
HP	HIGH POINT
HDS	HYDRODYNAMIC SEPERATOR
HDW	HEADWALL
INV	INVERT
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
NG	NATIONAL GRID
NPT	NATIONAL PIPE THREAD
PVMT	PAVEMENT
P.E.	PERMANENT EASEMENT
PEP	PERSONNEL ENTRY POINT
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
P℄	PROPERTY LINE
ROW	RIGHT OF WAY
SF	SILT FENCE
SPC	SPECIAL PROJECT CONDITIONS
STA	STATION
STL	STEEL
T.E.	TEMPORARY EASEMENT
TC	TOP OF CURB
TS	TOP OF SLOPE
TYP	TYPICAL
UNK	UNKNOWN
UON	UNLESS OTHERWISE NOTED
WV	WATER VALVE
WWF	WELDED WIRE FABRIC

GENERAL:

1. UNDERGROUND FACILITIES, STRUCTURE, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND TYPE OF USE MUST BE CONSIDERED APPROXIMATE ONLY. OTHER UNDERGROUND STRUCTURES AND UTILITIES MAY EXIST, THE LOCATIONS OF WHICH ARE PRESENTLY UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITY LOCATIONS, AND SHALL PROMPTLY NOTIFY THE OWNER'S RERESENTATIVE AND OWNER OF CONDITION IF FOUND DIFFERENT.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PERTINENT TO THE WORK OF THIS CONTRACT IN THE FIELD.

3. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE CAUSED BY HIS OPERATIONS TO EXISTING UTILITIES AND FACILITIES WHICH ARE NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO THE EXISTING FACILITIES WHICH ARE NOT A PART OF THE INTENDED WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO THE OWNER.

4. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION OPERATIONS WITH THE WORK OF OTHER CONTRACTS AND ANY AND ALL OTHER CONSTRUCTION ACTIVITIES WHICH MAY BE OCCURRING SIMULTANEOUSLY IN THE VICINITY OF THE WORK.

5. OVERHEAD WIRES ARE DEPICTED ON SEVERAL DRAWINGS. ONLY THE MORE SIGNIFICANT OVERHEAD WIRES ARE SHOWN. THE CONTRACTOR SHALL FIELD VERIFY AND ASCERTAIN ACTUAL CONDITIONS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE POLICE, HOSPITALS, SYRACUSE DPW, LOCAL SCHOOLS, 911 EMERGENCY, CENTRO AND FIRE DEPARTMENTS TO INFORM THEM OF CONSTRUCTION ACTIVITIES ON THIS PROJECT ON A WEEKLY BASIS.

7. THE CONTRACTOR SHALL OBTAIN APPROVALS FOR ALL SITES FOR SPOIL AND DEBRIS DISPOSAL. THE CONTRACTOR SHALL PROVIDE WRITTEN APPROVAL FOR USE OF SUCH SITES TO THE OWNER PRIOR TO ANY REMOVAL OF MATERIAL FROM THE SITE.

8. GENERALLY, STREETS WITH CURBS HAVE CONCRETE ROAD BASES, STREETS WITH NO CURBS HAVE ASPHALT ROAD BASES.

9. THE CONTRACTOR SHALL ADJUST NEW AND EXISTING VALVE BOXES, MANHOLE COVERS, CATCH BASIN COVERS, AND OTHER FACILITIES AS REQUIRED TO MATCH FINISHED LINES AND GRADES. CONTRACTOR SHALL ALSO PROVIDE POSITIVE DRAINAGE OF SURFACE WATER AWAY FROM SANITARY MANHOLES.

10. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY ADDITIONAL SURVEY DATA REQUIRED FOR THE CONSTRUCTION OF ALL ELEMENTS OF THIS PROJECT.

PROTECTION OF EXISTING DRAINAGE FACILITIES:

1. ALL EXISTING COMBINED DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS AND FOREIGN MATTER AND OPERATIONAL THROUGHOUT THE DURATION OF THE CONTRACT.

2. UPON COMPLETION OF THE CONTRACT WORK, ALL PROPOSED DRAINAGE SYSTEMS AND EXISTING DRAINAGE SYSTEMS TO REMAIN WITHIN THE LIMITS OF THIS CONTRACT SHALL BE CLEANED TO ATTAIN THEIR FULL FLOW CAPABILITIES AND SHALL BE ACCEPTED BY THE OWNER'S REPRESENTATIVE AS SUFFICIENTLY CLEANED. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL CLEANING DEBRIS.

3. THE LOCATION AND SIZE OF EXISTING FACILITIES ARE FROM ACTUAL FIELD MEASUREMENTS, LIMITED FIELD RECONAISSANCE OR PLANS OF RECORD. ALL FACILITIES WHICH ARE TO REMAIN OR BE MODIFIED FOR REUSE UNDER THIS CONTRACT SHALL BE FIELD VERIFIED AS TO ACTUAL LOCATION, ELEVATIONS, SIZE, TYPE AND CONDITION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE WHO SHALL DETERMINE IF MODIFICATIONS TO THE PLANS ARE REQUIRED.

EARTHWORK

1. ALL ORGANIC MATERIAL SHALL BE CLEARED FROM THE SITE. TOPSOIL MAY BE STOCKPILED FOR REUSE IF OF ACCEPTABLE QUALITY.

2. EXISTING MATERIAL TO REMAIN AS SUBGRADE SHALL BE PROTECTED FROM DISTURBANCE. IF NOT PROTECTED AND/OR DISTURBED BY THE CONTRACTOR FOR ANY REASON, SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED TYPE E MATERIAL AT NO COST TO THE OWNER.

WORK ON COMBINED & SANITARY SEWERS:

1. CONTRACTOR SHALL NOT DIRECT SURFACE OR SUBSURFACE WATER TO THE SANITARY SEWER SYSTEM WITHOUT WRITTEN PERMISSION AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DISPOSAL OF WATER.

2. SEE SPECIFICATION SECTION 02190 FOR DETAILED REQUIREMENTS RELATED TO THE MAINTENANCE OF SEWAGE FLOWS.

3. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES WITHIN THE SEWER ROUTE. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO LOCATE UTILITIES IN THE PROPOSED SEWER ROUTE. POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE OWNER'S REPRESENTATIVE ATTENTION IMMEDIATELY.

EROSION CONTROL:

1. REFER TO SPECIFICATION SECTION 02370 FOR DETAILS REGARDING SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR'S ATTENTION IS ALSO DIRECTED TO THE REQUIREMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN AS DESCRIBED IN THE SPECIAL PROJECT CONDITIONS SECTION OF THE CONTRACT DOCUMENTS.

2. EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED, INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL.

3. SOIL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED AND FULLY FUNCTIONAL PRIOR TO ANY SITE DISTURBANCE. FACILITIES SHALL BE FULLY MAINTAINED DURING CONSTRUCTION.

4. ALL ROADWAYS SHALL BE KEPT CLEAN. FILL SHALL NOT BE SPILLED ONTO THE ROADWAY. ALL SPILLED MATERIALS SHALL BE PROMPTLY REMOVED.

5. SOIL EROSION AND SEDIMENT CONTROL FACILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION AND REMOVED (WHERE NECESSARY OR APPLICABLE) UPON COMPLETION OF CONSTRUCTION.

6. THE AREAS OF CONSTRUCTION SHALL REMAIN IN STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROL FACILITIES SHALL BE MONITORED AND MAINTAINED, REPAIRED OR REPLACED IF NECESSARY.

7. STORM INLETS TO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION BY USE OF INLET PROTECTION OR OTHER APPROVED MEANS.

8. SOIL STOCKPILE AREAS ARE TO BE SURROUNDED WITH SILT FENCING, OR OTHER EROSION CONTROL MEASURES OR AS ORDERED BY THE OWNER'S REPRESENTATIVE.

9. CONTRACTOR TO PROVIDE APPROVED DUST CONTROL MEASURES. THE CONTRACTOR SHALL HAVE A WATER TRUCK OR OTHER ACCEPTABLE MEANS OF CONTROLLING DUST AVAILABLE AT ALL TIMES.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE: NONE

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.

No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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

In charge of RCF
Designed by RWS
Drawn by RWS
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

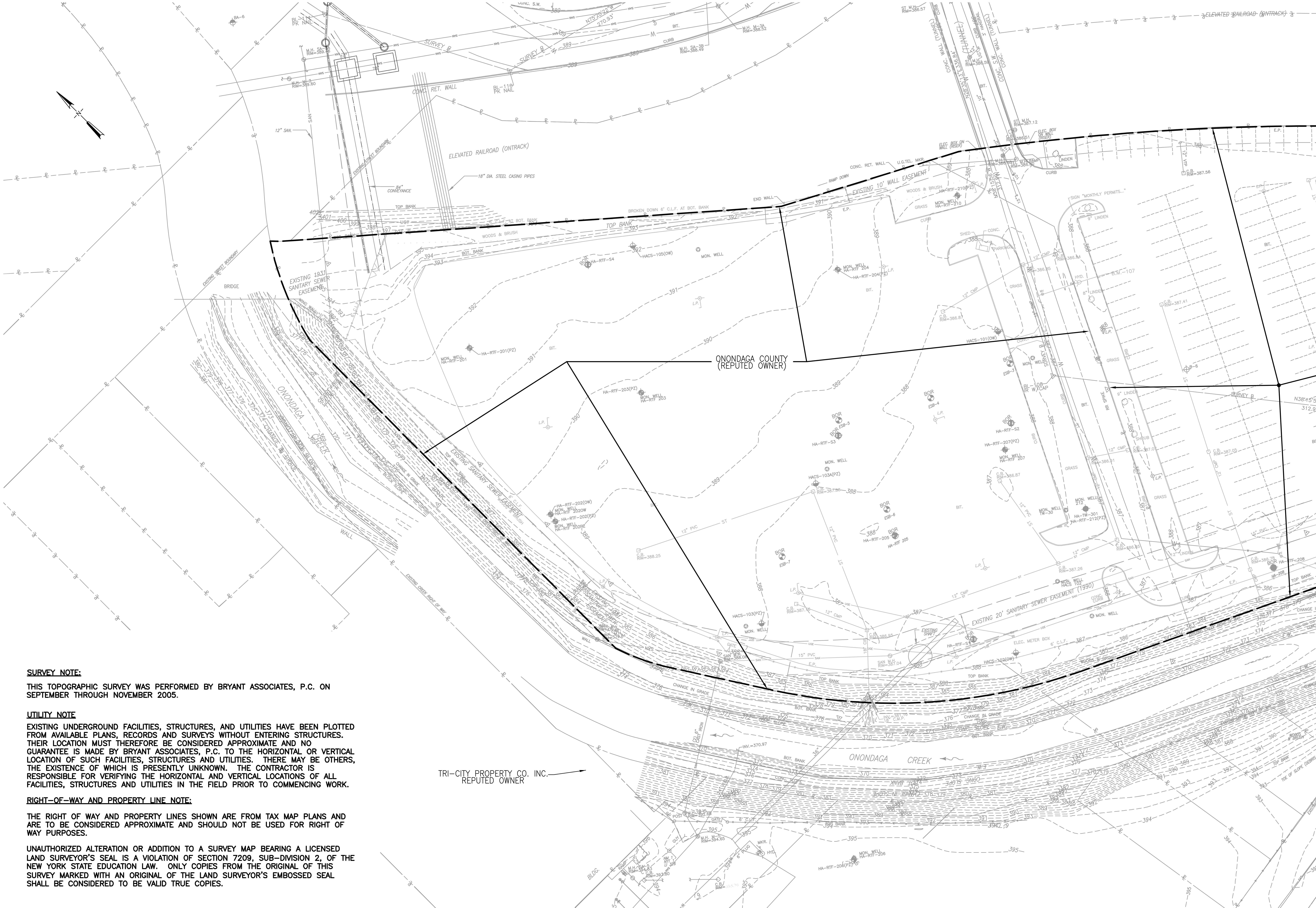
GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

GENERAL

STATE OF NEW YORK · GERALD C. HOOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G-002



SURVEY NOTE:

THIS TOPOGRAPHIC SURVEY WAS PERFORMED BY BRYANT ASSOCIATES, P.C. ON SEPTEMBER THROUGH NOVEMBER 2005.

UTILITY NOTE

EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE PLANS, RECORDS AND SURVEYS WITHOUT ENTERING STRUCTURES. THEIR LOCATION MUST THEREFORE BE CONSIDERED APPROXIMATE AND NO GUARANTEE IS MADE BY BRYANT ASSOCIATES, P.C. TO THE HORIZONTAL OR VERTICAL LOCATION OF SUCH FACILITIES, STRUCTURES AND UTILITIES. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY UNKNOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL FACILITIES, STRUCTURES AND UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK.

RIGHT-OF-WAY AND PROPERTY LINE NOTE:

THE RIGHT OF WAY AND PROPERTY LINES SHOWN ARE FROM TAX MAP PLANS AND ARE TO BE CONSIDERED APPROXIMATE AND SHOULD NOT BE USED FOR RIGHT OF WAY PURPOSES.

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

L: ON=*; OFF=*REF*
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8/19/10 B&L GRR
1079003/CST-G-003.DWG

SCALE: 1"=30' (graphic scale 30' 0 30' 60')

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.

No.	Date	Revisions	Init
2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK

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In charge of KMK
Designed by BRYANT
Drawn by GRR
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

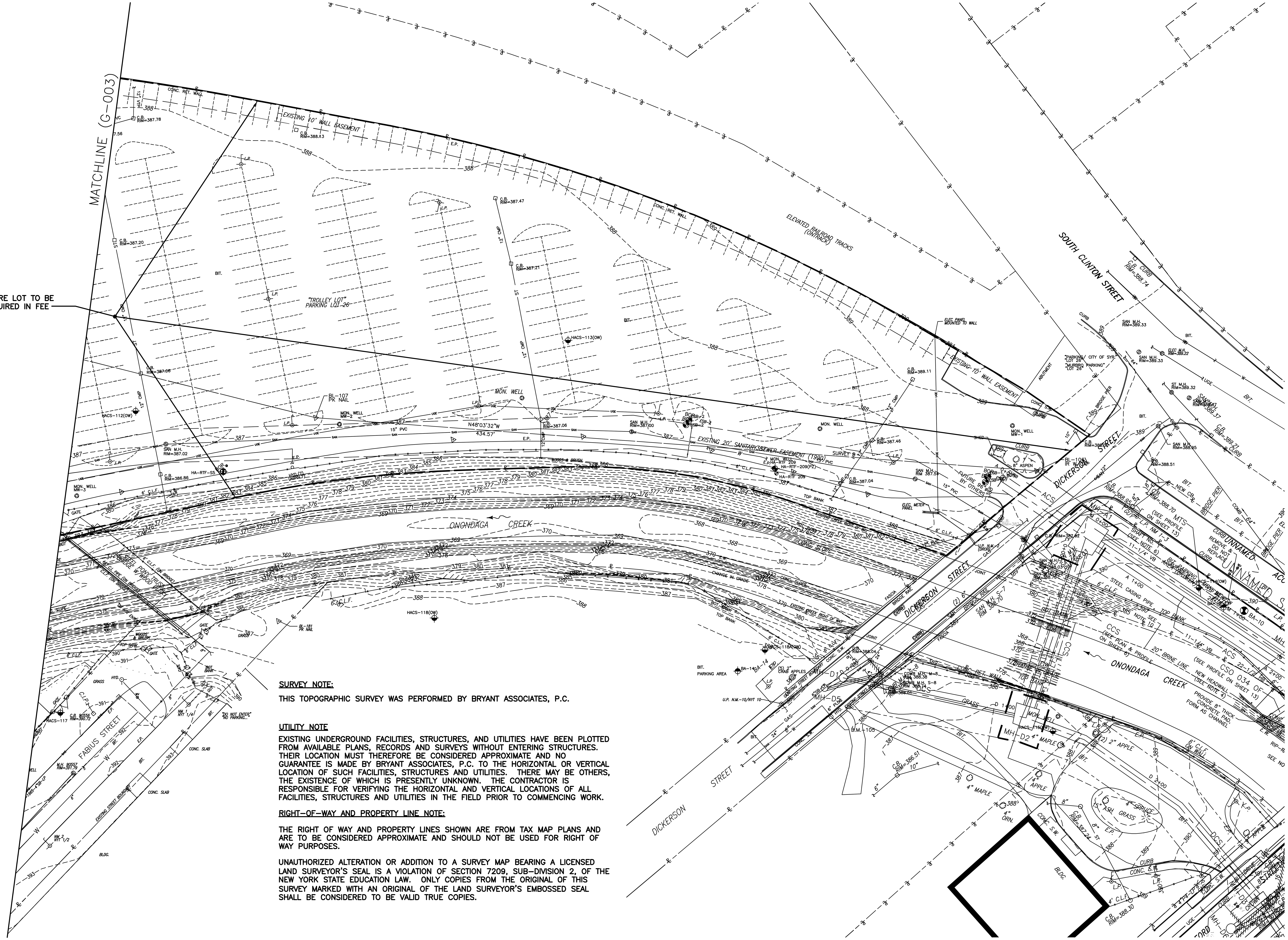
EXISTING SITE PLAN 1

GENERAL

STATE OF NEW YORK • KENNETH M. KNUTSEN • LICENSED PROFESSIONAL ENGINEER • No. 070968

File Number 006.63
Date 04/11

G-003



SURVEY NOTE:

THIS TOPOGRAPHIC SURVEY WAS PERFORMED BY BRYANT ASSOCIATES, P.C.

UTILITY NOTE

EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE PLANS, RECORDS AND SURVEYS WITHOUT ENTERING STRUCTURES. THEIR LOCATION MUST THEREFORE BE CONSIDERED APPROXIMATE AND NO GUARANTEE IS MADE BY BRYANT ASSOCIATES, P.C. TO THE HORIZONTAL OR VERTICAL LOCATION OF SUCH FACILITIES, STRUCTURES AND UTILITIES. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY UNKNOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL FACILITIES, STRUCTURES AND UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK.

RIGHT-OF-WAY AND PROPERTY LINE NOTE:

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L: ON=*; OFF=*REF*
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8/20/10 B&L GRR
1079003/CST-G-004.DWG

SCALE:
1"=30' — 30' 0 30' 60'

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.

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1	01/11	ISSUED FOR APPROVAL	KMK

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

In charge of KMK
Designed by BRYANT
Drawn by GRR
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

EXISTING SITE PLAN 2

GENERAL

STATE OF NEW YORK • KENNETH M. KNUTSEN • LICENSED PROFESSIONAL ENGINEER • No. 070968

File Number 006.63
Date 04/11

G-004

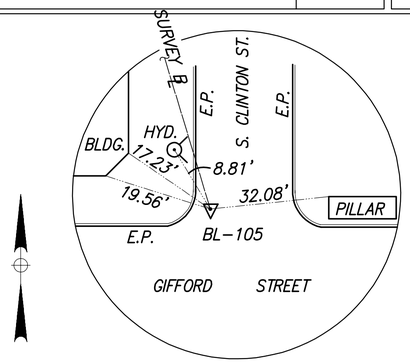
BENCHMARK LIST

NUMBER	DESCRIPTION	ELEVATION
B.M.–101	IS A CHISELED "X" SET ON A BONNET BOLT OF A FIRE HYDRANT UNDER THE "O" IN "OPEN". IT IS LOCATED ON THE EASTERLY SIDE OF WEST ST. 50'+/– NORTH OF WEST JEFFERSON ST.	397.80
B.M.–102	IS A CHISELED "X" SET ON A BONNET BOLT UNDER THE "E" IN "OPEN" OF A FIRE HYDRANT. IT IS LOCATED ON THE EASTERLY SIDE OF WEST ST. ARTERIAL 25' +/– NORTH OF TULLY ST.	398.08
B.M.–103	IS A CHISELED "X" SET ON A BONNET BOLT AT POINT ARROW OF A FIRE HYDRANT. IT IS LOCATED ON THE EASTERLY SIDE OF WEST ST. ARTERIAL AT THE CORNER OF FABIUS ST. NEXT TO FIREHOUSE NO. 6.	398.98
B.M.–104	IS A CHISELED "X" SET ON A BONNET BOLT ABOVE THE "TH" IN "MATHEWS" OF A FIRE HYDRANT. IT IS LOCATED ON THE SOUTHERLY SIDE OF FABIUS ST. AND THE EASTERLY SIDE OF GRANGER ST.	396.71
B.M.–105	IS A CHISELED "X" SET ON THE NORTHERLY MOST BONNET BOLT BETWEEN THE "S" IN "MATHEWS" AND THE "E" IN "MINER" OF A FIRE HYDRANT. IT IS LOCATED ON THE SOUTHERLY SIDE OF DICKERSON STREET 25'+/– WEST OF ONONDAGA CREEK.	390.91

NUMBER	DESCRIPTION	ELEVATION
B.M.–106	IS A CHISELED "X" SET ON A NUT ON RING CONNECTING TO A PIPE OF A FIRE HYDRANT. LOCATED AT THE CORNER OF GIFFORD ST. AND WESTERLY SIDE OF ACCESS RD. TO TROLLEY LOT (RUNS PARALLEL TO RAILROAD TRACKS).	390.89
B.M.–107	IS A CHISELED "X" SET ON A NUT ON RING CONNECTING TO A PIPE OF A FIRE HYDRANT. EASTERLY SIDE OF HYDRANT, 100' +/– WEST OF RR X–ING, SOUTHERLY SIDE OF ACCESS RD. TO TROLLEY LOT (26).	388.14
B.M.–108	IS THE CL OF COLUMN F.F. BETWEEN DOUBLE ENTRANCES 75'+/– SOUTHERLY OF BL 109 AT ARMORY BUILDING ACROSS FROM 269 W. JEFFERSON ST.	389.15
B.M.–109	IS A CHISELED "X" SET ON A BONNET BOLT BETWEEN THE ARROW AND THE "K" IN "KENNEDY" OF A FIRE HYDRANT. IT IS LOCATED ON THE SOUTHERLY SIDE OF WALTON ST. 200'+/– WEST OF ONONDAGA CREEK.	392.91
B.M.–110	IS A CHISELED "X" SET ON A BONNET BOLT UNDER THE "P" IN "OPEN" OF A FIRE HYDRANT. IT IS LOCATED ON THE SOUTHEAST CORNER OF WALTON ST./W. FAYETTE ST. INTERSECTION, 150'+/– WEST OF ONONDAGA CREEK.	393.22

SURVEY NOTE:

BASELINE TIES AND BENCHMARKS ESTABLISHED BY BRYANT ASSOCIATES, P.C. IN 2005.



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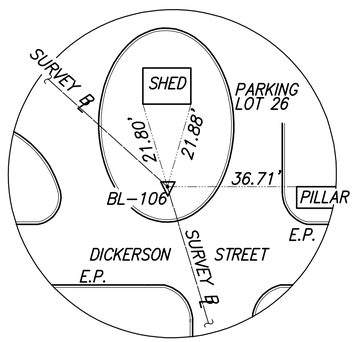

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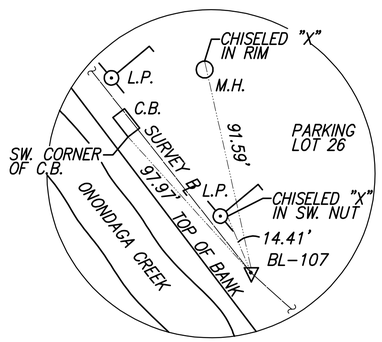

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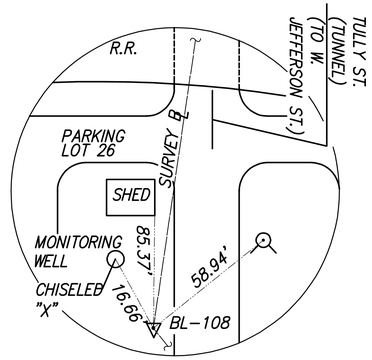

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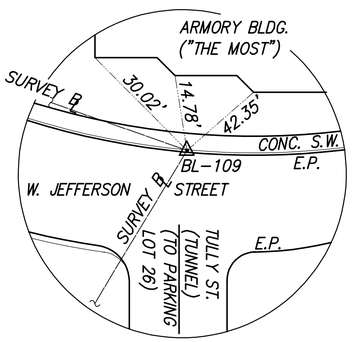

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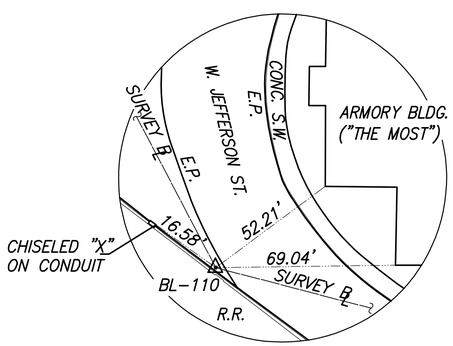

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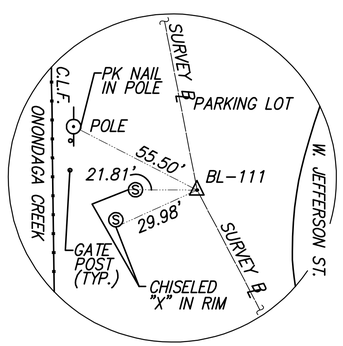

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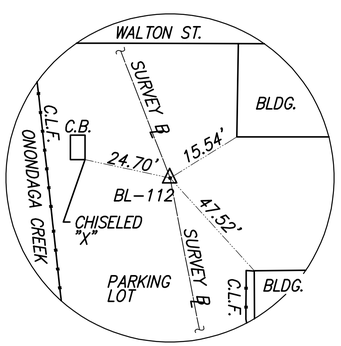

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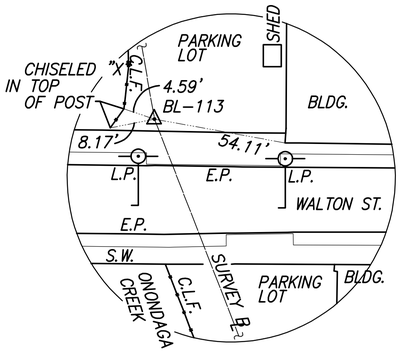

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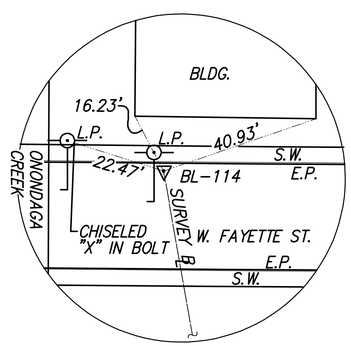

BL–114
PK NAIL
N: 1111143.0601
E: 934172.6043

SURVEY BASELINE TIE DIAGRAMS

NOT TO SCALE

KMK
X:
8/20/10 B&L GRR
1079003/CST–G–005.DWG

SCALE: NOT TO SCALE

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No.	Date	Revisions	Init
2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK

In charge of KMK
Designed by BRYANT
Drawn by GRR
Checked by LMM

Environmental Engineering Associates, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

BASELINE TIES & BENCHMARKS

GENERAL

STATE OF NEW YORK · KENNETH M. FOOTE · LICENSED PROFESSIONAL ENGINEER · NO. 070068

File Number 006.63
Date 04/11

G–005

NOTES:

1. ELEVATIONS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. HORIZONTAL CONTROL IS BASED ON NEW YORK STATE GRID, CENTRAL ZONE NAD–83.
3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ALL APPLICABLE LAWS REGARDING LIABILITY INCURRED THROUGH DISTURBANCE & DESTRUCTION OF GEODETIC SURVEY MONUMENTS.
4. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS IN THE AREA AND ALL CONTROL POINTS, OF CONSTRUCTION. ANY MONUMENTS THAT ARE DISTURBED (SURVEY & R.O.W.) SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. REFER TO SHEET G–005 FOR BASELINE TIES.

BL 114
N 1111143.0601
E 934772.6043

N09°56'14"W
258.07'

W. FAYETTE ST.

WALTON STREET

BL 112
N 1110732.1279
E 934277.8903

BL 113
N 1110887.8451
E 934217.3472

N21°51'12"W
214.49'

BL 109
N 1110388.6499
E 934627.5389

BM 107

BL 110
N 1110457.2198
E 934365.4324

N10°57'23"W
174.28'

BL 111
N 1110561.0448
E 934311.0105

N75°20'22"W
270.93'

W. JEFFERSON STREET

SOUTH CLINTON STREET

N28°55'42"E
336.18'

BM 107

BL 108
N 1110092.8710
E 934466.3619

BL 106
N 1109556.6723
E 934983.4493

BL 107
N 1109847.1268
E 934660.1987

N38°15'56"W
317.99'

N48°03'32"W
434.57'

ONONDAGA CREEK

N18°32'42"W
265.09'

BL 105
N 1109303.0014
E 935060.4141

BM 105

WEST STREET

TULLY STREET

FABIUS ST

GRANGER STREET

DICKERSON STREET

GIFFORD STREET

WEST ONONDAGA STREET

WEST ADAMS STREET

L: ON=*; OFF=*REF*
X:
8/20/10 B&L GRR
1079003/CST-G-006.DWG

80' 0 80' 160'
1"=80'

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1	01/11	ISSUED FOR APPROVAL	KMK

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

In charge of LMM
Designed by BRYANT
Drawn by GRR
Checked by CAW

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

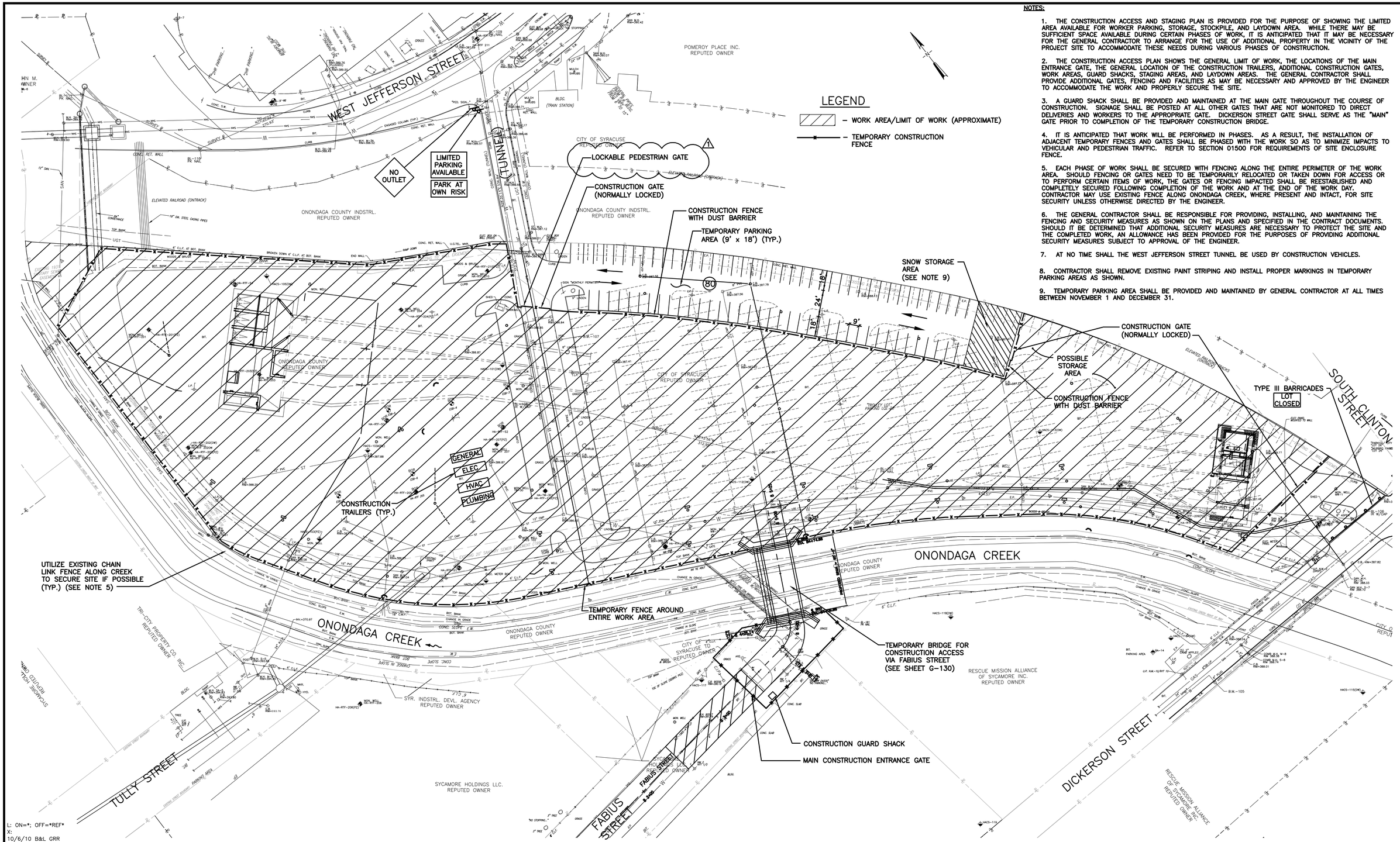
SURVEY BASELINE CONTROL

GENERAL

STATE OF NEW YORK
KENNETH M. KOSIER
No. 070988
LICENSED PROFESSIONAL ENGINEER

File Number 006.63
Date 04/11

G–006



NOTES:

1. THE CONSTRUCTION ACCESS AND STAGING PLAN IS PROVIDED FOR THE PURPOSE OF SHOWING THE LIMITED AREA AVAILABLE FOR WORKER PARKING, STORAGE, STOCKPILE, AND LAYDOWN AREA. WHILE THERE MAY BE SUFFICIENT SPACE AVAILABLE DURING CERTAIN PHASES OF WORK, IT IS ANTICIPATED THAT IT MAY BE NECESSARY FOR THE GENERAL CONTRACTOR TO ARRANGE FOR THE USE OF ADDITIONAL PROPERTY IN THE VICINITY OF THE PROJECT SITE TO ACCOMMODATE THESE NEEDS DURING VARIOUS PHASES OF CONSTRUCTION.

2. THE CONSTRUCTION ACCESS PLAN SHOWS THE GENERAL LIMIT OF WORK, THE LOCATIONS OF THE MAIN ENTRANCE GATE, THE GENERAL LOCATION OF THE CONSTRUCTION TRAILERS, ADDITIONAL CONSTRUCTION GATES, WORK AREAS, GUARD SHACKS, STAGING AREAS, AND LAYDOWN AREAS. THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL GATES, FENCING AND FACILITIES AS MAY BE NECESSARY AND APPROVED BY THE ENGINEER TO ACCOMMODATE THE WORK AND PROPERLY SECURE THE SITE.

3. A GUARD SHACK SHALL BE PROVIDED AND MAINTAINED AT THE MAIN GATE THROUGHOUT THE COURSE OF CONSTRUCTION. SIGNAGE SHALL BE POSTED AT ALL OTHER GATES THAT ARE NOT MONITORED TO DIRECT DELIVERIES AND WORKERS TO THE APPROPRIATE GATE. DICKERSON STREET GATE SHALL SERVE AS THE "MAIN" GATE PRIOR TO COMPLETION OF THE TEMPORARY CONSTRUCTION BRIDGE.

4. IT IS ANTICIPATED THAT WORK WILL BE PERFORMED IN PHASES. AS A RESULT, THE INSTALLATION OF ADJACENT TEMPORARY FENCES AND GATES SHALL BE PHASED WITH THE WORK SO AS TO MINIMIZE IMPACTS TO VEHICULAR AND PEDESTRIAN TRAFFIC. REFER TO SECTION 01500 FOR REQUIREMENTS OF SITE ENCLOSURE FENCE.

5. EACH PHASE OF WORK SHALL BE SECURED WITH FENCING ALONG THE ENTIRE PERIMETER OF THE WORK AREA. SHOULD FENCING OR GATES NEED TO BE TEMPORARILY RELOCATED OR TAKEN DOWN FOR ACCESS OR TO PERFORM CERTAIN ITEMS OF WORK, THE GATES OR FENCING IMPACTED SHALL BE REESTABLISHED AND COMPLETELY SECURED FOLLOWING COMPLETION OF THE WORK AND AT THE END OF THE WORK DAY. CONTRACTOR MAY USE EXISTING FENCE ALONG ONONDAGA CREEK, WHERE PRESENT AND INTACT, FOR SITE SECURITY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING THE FENCING AND SECURITY MEASURES AS SHOWN ON THE PLANS AND SPECIFIED IN THE CONTRACT DOCUMENTS. SHOULD IT BE DETERMINED THAT ADDITIONAL SECURITY MEASURES ARE NECESSARY TO PROTECT THE SITE AND THE COMPLETED WORK, AN ALLOWANCE HAS BEEN PROVIDED FOR THE PURPOSES OF PROVIDING ADDITIONAL SECURITY MEASURES SUBJECT TO APPROVAL OF THE ENGINEER.

7. AT NO TIME SHALL THE WEST JEFFERSON STREET TUNNEL BE USED BY CONSTRUCTION VEHICLES.

8. CONTRACTOR SHALL REMOVE EXISTING PAINT STRIPING AND INSTALL PROPER MARKINGS IN TEMPORARY PARKING AREAS AS SHOWN.

9. TEMPORARY PARKING AREA SHALL BE PROVIDED AND MAINTAINED BY GENERAL CONTRACTOR AT ALL TIMES BETWEEN NOVEMBER 1 AND DECEMBER 31.

L: ON=*; OFF=*REF*
X:
10/6/10 B&L GRR
1079003/CST-G-007.DWG

SCALE:
40' 0 40' 80'
1"=40'

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.

No.	Date	Revisions	Init
3	02/12	REVISED PER ADDENDA	KMK
2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK

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

In charge of KMK
Designed by CAW
Drawn by GRR, JJB2
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

CONSTRUCTION ACCESS, SECURITY & STAGING PLAN
GENERAL

STATE OF NEW YORK · KENNETH M. COUTURE · No. 070988 · LICENSED PROFESSIONAL ENGINEER

File Number 006.63
Date 04/11

G-007

NOTES: (APPLICABLE TO SHEETS G-101 AND G-102)

1. FOR DEMOLITION OF BRIDGE REFER TO G-102.
2. DEMOLITION OF EXISTING GAS MAINS SHALL BE COORDINATED WITH NATIONAL GRID POWER COMPANY.
3. DEMOLITION OF EXISTING WATER MAINS SHALL BE COORDINATED WITH THE CITY OF SYRACUSE DEPARTMENT OF WATER.
4. CREEK BANK SHALL BE CLEARED OF ALL TREES, BRUSH, AND DEBRIS WITHIN THE PROJECT LIMITS OR AS NECESSARY FOR TRENCHING AND TEMPORARY BRIDGE OPERATIONS.
5. ALL FEATURES LOCATED WITHIN THE PROPOSED TUNNELS AND BUILDING LIMITS SHALL BE DEMOLISHED.
6. REMOVE ALL AT GRADE MATERIALS (PAVEMENT, CONCRETE, BOLLARDS) NECESSARY FOR INSTALLATION OF NEW FACILITY.
7. MONITORING WELLS SHALL BE PROTECTED TO THE EXTENT POSSIBLE. ANY DEMOLITION OR REMOVAL OF MONITORING WELLS REQUIRES THE PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER.
8. SEE SHEET G-007 FOR APPROXIMATE LIMITS OF WORK.
9. DEMOLITION OF EXISTING LIGHT POLES AND UNDERGROUND ELECTRIC FEEDS SHALL BE COORDINATED WITH THE CITY OF SYRACUSE.

X:
12/09/10 B&L GRR
1079003/CST-G-101.DWG

1"=20' (graphic scale: 20' 0 20' 40')

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1	01/11	ISSUED FOR APPROVAL	KMK

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In charge of KMK
Designed by CAW
Drawn by GRR
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

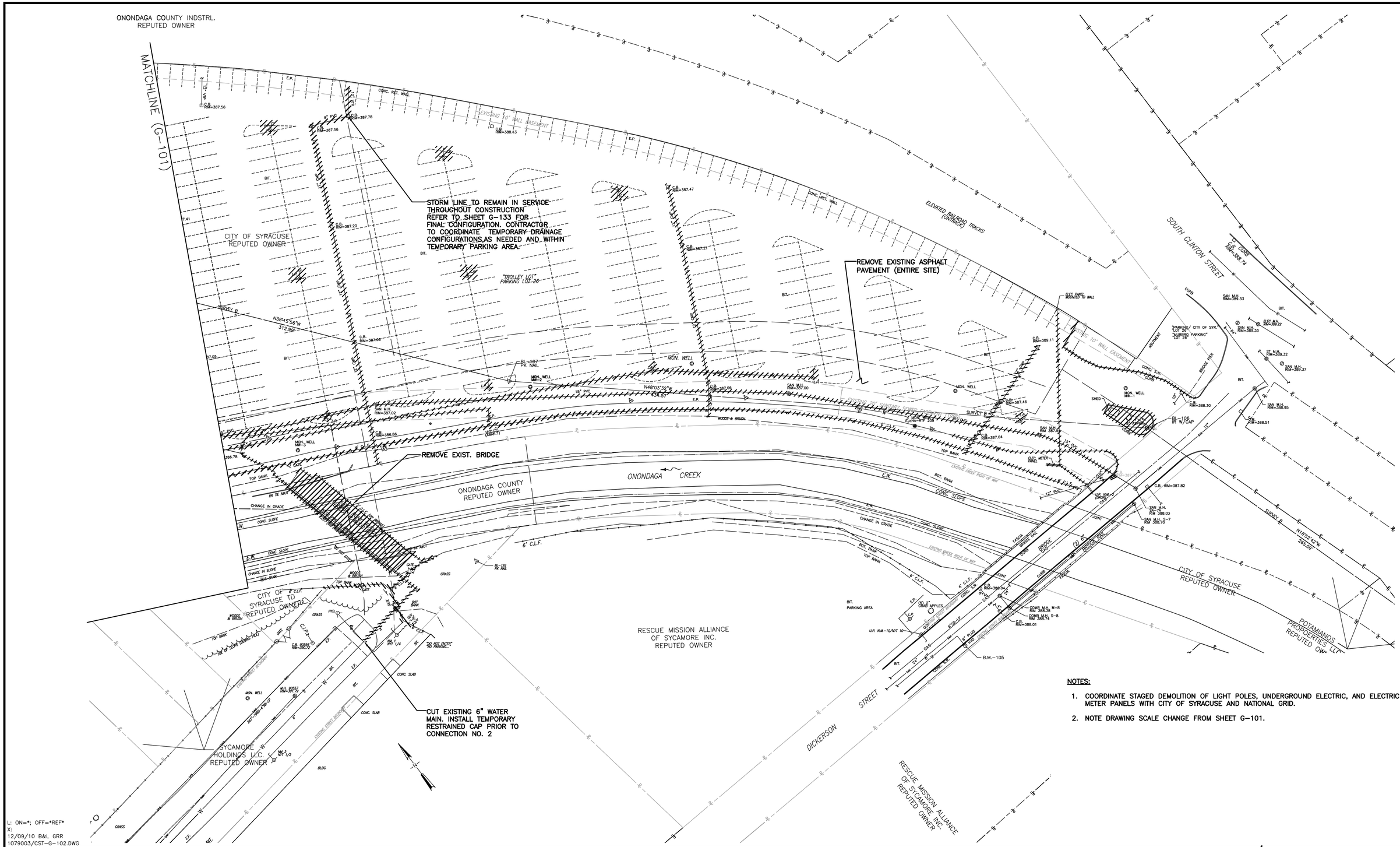
DEMOLITION PLAN 1

GENERAL

STATE OF NEW YORK · KENNETH M. ... · LICENSED PROFESSIONAL ENGINEER · No. 070989

File Number 006.63
Date 04/11

G-101



NOTES:

1. COORDINATE STAGED DEMOLITION OF LIGHT POLES, UNDERGROUND ELECTRIC, AND ELECTRIC METER PANELS WITH CITY OF SYRACUSE AND NATIONAL GRID.
2. NOTE DRAWING SCALE CHANGE FROM SHEET G-101.

L: ON=*; OFF=*REF*
X:
12/09/10 B&L GRR
1079003/CST-G-102.DWG

30' 0 30' 60'
1"=30'

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.

No.	Date	Revisions	Init
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1	01/11	ISSUED FOR APPROVAL	KMK

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In charge of KMK
Designed by CAW
Drawn by GRR
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

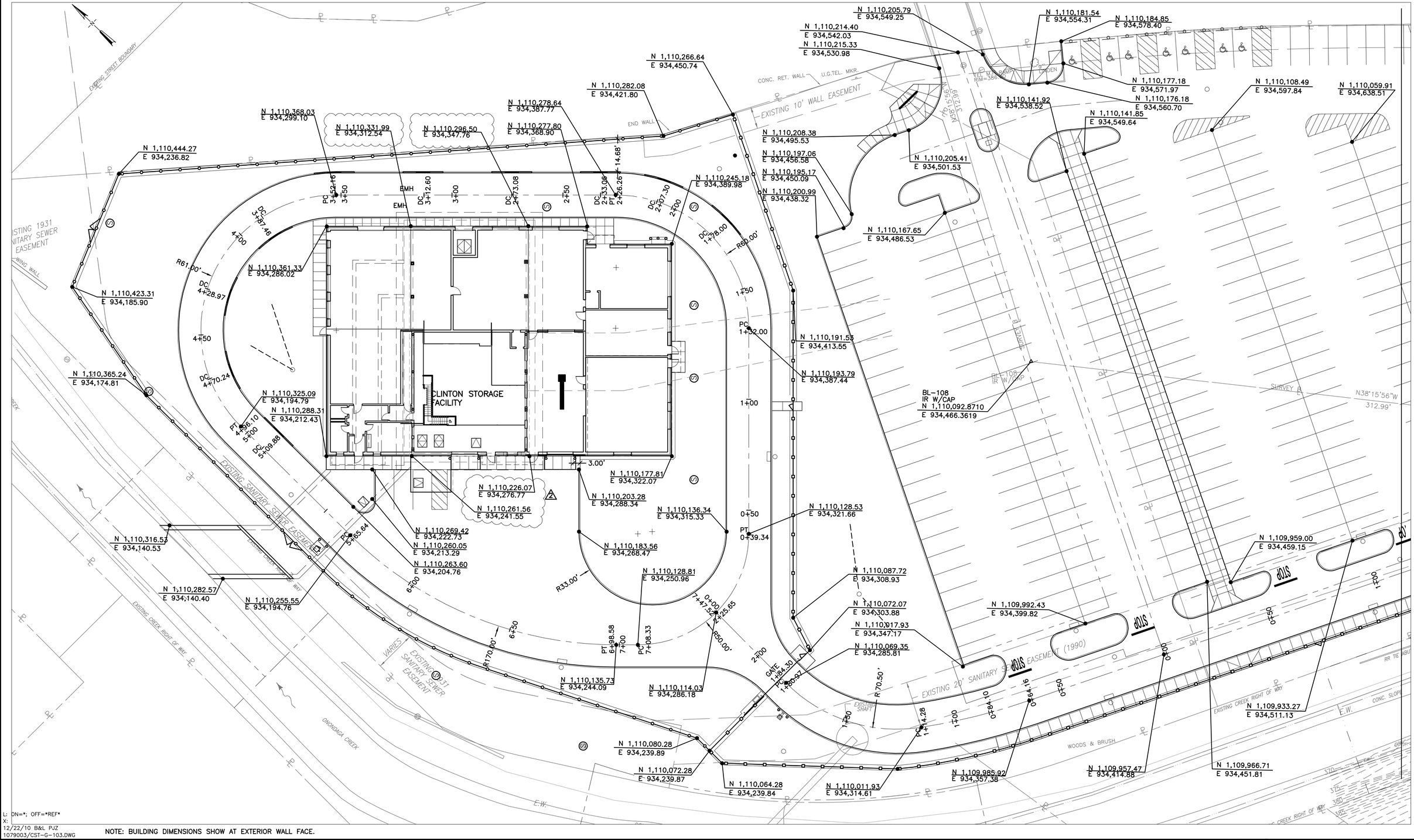
DEMOLITION PLAN 2

GENERAL

STATE OF NEW YORK
KENNETH M. KOPKO
No. 070988
LICENSED PROFESSIONAL ENGINEER

File Number 006.63
Date 04/11

G-102



L: ON=*; OFF=*REF*
X:
12/22/10 B&L PJZ
1079003/CST-G-103.DWG

NOTE: BUILDING DIMENSIONS SHOW AT EXTERIOR WALL FACE.

SCALE:
20 0 20 40
1"=20'-0"

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1	01/11	ISSUED FOR APPROVAL	

In charge of KMK
Designed by CAW
Drawn by PJZ
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

SITE COORDINATES 1

GENERAL

STATE OF NEW YORK
KENNETH M. LOGUIDICE
LICENSED PROFESSIONAL ENGINEER
No. 070968

File Number 006.63
Date 04/11

G-103

CONC. RET. WALL
EXISTING 10' WALL EASEMENT
ELEVATED RAILROAD TRACKS (ONTRACK)
SOUTH CLINTON STREET
N 1,110,018.95 E 934,682.96
N 1,109,970.37 E 934,723.63
N 1,109,923.84 E 934,765.32
N 1,109,874.29 E 934,805.51
N 1,109,820.64 E 934,843.67
N 1,109,763.09 E 934,879.91
N 1,109,753.34 E 934,942.44
N 1,109,748.16 E 934,932.37
N 1,109,727.34 E 934,955.12
N 1,109,727.82 E 934,954.89
N 1,109,690.48 E 934,941.42
EAST ENTRANCE STRUCTURE
N 1,109,670.36 E 934,961.37
RESERVED PARKING COUNTY STAFF ONLY
N 1,109,738.60 E 934,930.86
N 1,109,674.31 E 934,900.96
N 1,109,684.86 E 934,890.49
N 1,109,642.19 E 934,932.98
N 1,109,717.38 E 934,857.29
N 1,109,684.37 E 934,885.84
N 1,109,605.99 E 934,954.89
N 1,109,553.15 E 935,029.59
N 1,109,550.03 E 935,017.03
N 1,109,577.95 E 934,971.53
"TROLLEY LOT" PARKING LOT 26
N 1,109,790.49 E 934,764.04
N 1,109,752.07 E 934,809.74
N 1,109,824.80 E 934,716.31
N 1,109,856.10 E 934,667.08
N 1,109,881.82 E 934,615.10
N 1,109,907.55 E 934,563.11
N 1,109,672.80 E 934,887.40
N 1,109,662.30 E 934,913.02
BL-106 IR W/CAP N 1,109,556.6723 E 934,983.4493
STOP
EXISTING 20' SANITARY SEWER EASEMENT (1990)
N 1,109,598.24 E 934,947.08
N 1,109,590.49 E 934,939.27
N 1,109,644.70 E 934,900.98
N 1,109,672.62 E 934,870.91
N 1,109,583.18 E 934,945.15
N 1,109,561.55 E 934,963.26
N 1,109,546.56 E 934,963.99
N 1,109,544.66 E 934,925.36
N 1,109,544.40 E 934,919.93
N 1,109,751.60 E 934,778.51
BL-107 PK NAIL N 1,109,847.1268 E 934,660.1987
N 1,109,855.18 E 934,621.59
R6.00'
PC 2+30.64
PC 4+81.44
PC 5+50 5+50.15
EXISTING CREEK RIGHT OF WAY
TOP BANK
BOT. BANK
CONC. SLOPE
ONONDAGA CREEK
ONONDAGA COUNTY REPUTED OWNER
TEMPORARY BRIDGE
CHANGE IN GRADE
6' C.L.F.
BRIDGE RAIL
GAS
FASCIA
CITY OF REPUTED
RESCUE MISSION ALLIANCE OF SYCAMORE INC. REPUTED OWNER
PARKING AREA
GRASS

L: ON=*; OFF=*REF*
X:
12/22/10 B&L PJZ
1079003/CST-G-104.DWG

SCALE: 1"=20'-0" (20, 0, 20, 40)

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In charge of KMK
Designed by CAW
Drawn by PJZ
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

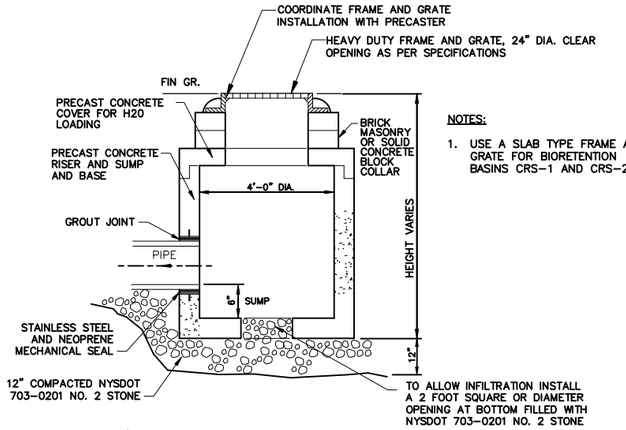
SITE CORDINATES 2

GENERAL

STATE OF NEW YORK — KENNETH M. — LICENSED PROFESSIONAL ENGINEER — No. 070968

File Number 006.63
Date 04/11

G-104

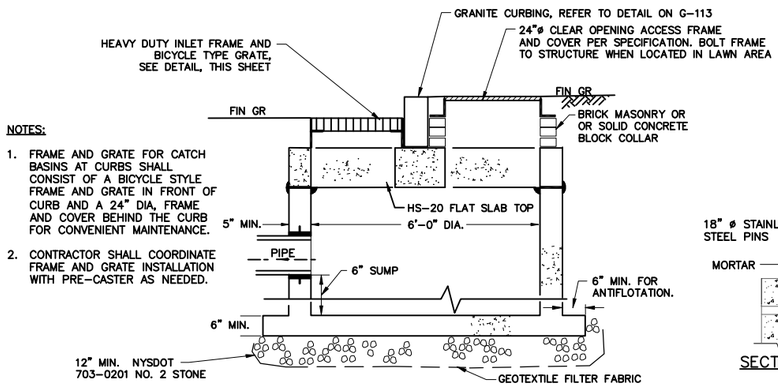


NOTES:

1. USE A SLAB TYPE FRAME AND GRATE FOR BIORETENTION BASINS CRS-1 AND CRS-2.

4' DIA. CONCRETE CATCH BASIN

NOT TO SCALE

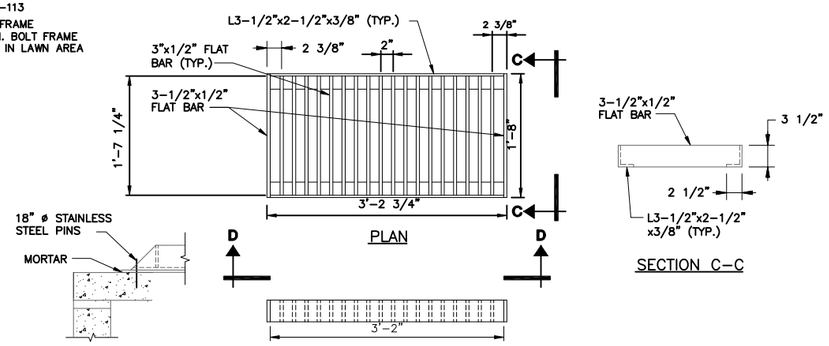


NOTES:

1. FRAME AND GRATE FOR CATCH BASINS AT CURBS SHALL CONSIST OF A BICYCLE STYLE FRAME AND GRATE IN FRONT OF CURB AND A 24" DIA, FRAME AND COVER BEHIND THE CURB FOR CONVENIENT MAINTENANCE.
2. CONTRACTOR SHALL COORDINATE FRAME AND GRATE INSTALLATION WITH PRE-CASTER AS NEEDED.

6' DIA. CATCH BASIN CURB INLET - SECTION A

NOT TO SCALE



'BICYCLE TYPE' CATCH BASIN GRATE DETAIL

NOT TO SCALE

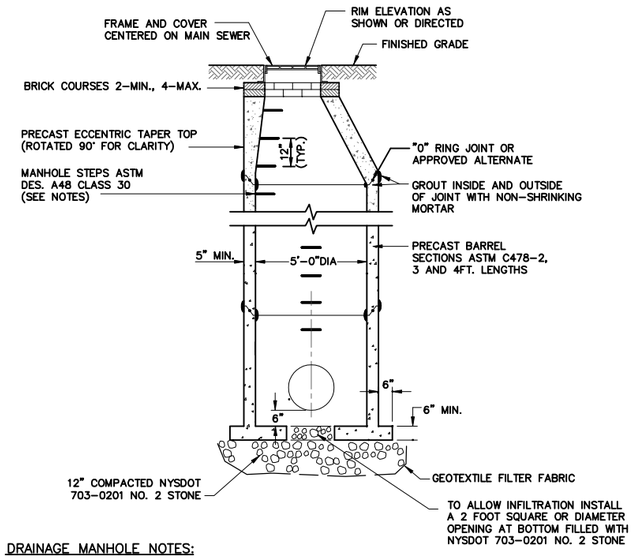
MANHOLE & CATCH BASIN NOTES

ON ALL PIPES, AT ALL MANHOLES AND OTHER UNDERGROUND STRUCTURES, TWO (2) PIPE JOINTS SHALL BE INSTALLED WITHIN 4'-0" FROM OUTSIDE FACE OF MANHOLE OR STRUCTURE WALL.

STEPS SHALL BE FURNISHED FOR ALL MANHOLES IN ACCORDANCE WITH THE SPECIFICATIONS.

ECCENTRIC CONES TO BE FURNISHED AND INSTALLED FOR ALL MANHOLES.

MANHOLE FRAMES ARE TO BE INSTALLED 3/8" BELOW PAVEMENT SURFACE AND MATCH SLOPE OF STREET GRADIENTS AND/OR CROWN OF PAVEMENT, DRIVEWAYS, PARKING AREAS AND OTHER LOCATIONS UNLESS OTHERWISE SPECIFIED. IN WALK AREAS, MATCH FRAME WITH WALK SURFACE AND SLOPE. IN UNCULTIVATED AREAS SET TOP OF FRAME AND COVER 6" ABOVE EXISTING GROUND SURFACE UNLESS OTHERWISE SPECIFIED.

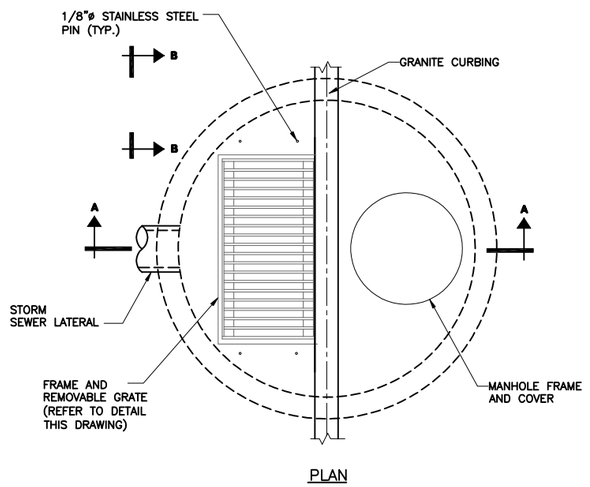


DRAINAGE MANHOLE NOTES:

CONTRACTOR SHALL CONSTRUCT, AT NO EXTRA COST, MANHOLES WITH FLAT SLAB COVERS OF APPROVED DESIGN, WHERE THE MANHOLE DEPTH IS INSUFFICIENT TO PERMIT INSTALLATION OF A TAPER TOP OR WHERE OTHERWISE SHOWN.

5' DIA. DRAINAGE MANHOLE SECTION

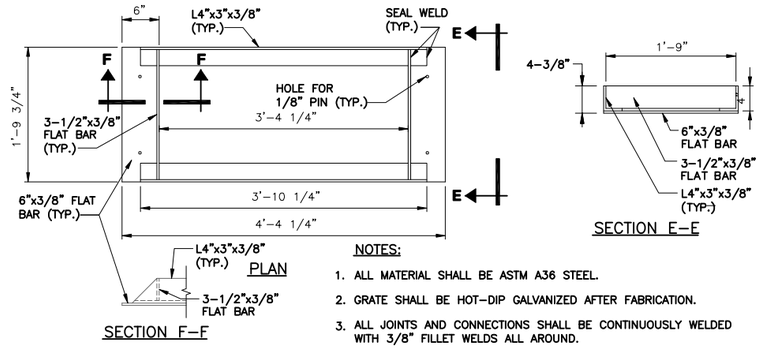
NOT TO SCALE



PLAN

6' DIA. CATCH BASIN AT CURB INLET - PLAN

NOT TO SCALE



NOTES:

1. ALL MATERIAL SHALL BE ASTM A36 STEEL.
2. GRATE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
3. ALL JOINTS AND CONNECTIONS SHALL BE CONTINUOUSLY WELDED WITH 3/8" FILLET WELDS ALL AROUND.

'BICYCLE TYPE' CATCH BASIN FRAME DETAIL

NOT TO SCALE

RFI 210
IN LIEU OF PROVIDING 2 JOINTS WITHIN 4 FEET OF THE STRUCTURE, IT IS ACCEPTABLE TO PROVIDE 1 JOINT WITHIN 2 FEET OF THE STRUCTURE.

RFI 296
THE USE OF MORTAR UP OVER THE EDGES OF THE BICYCLE TYPE FRAMES WILL BE ADEQUATE, IN LIEU OF PINS.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:AS NOTED

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.

No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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In charge of RCF
Designed by GSL
Drawn by GSL
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

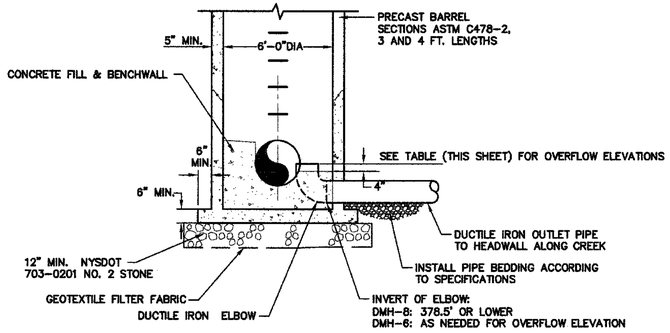
MISCELLANEOUS STORMWATER DETAILS

GENERAL

STATE OF NEW YORK · GERALD C. HOOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G-105



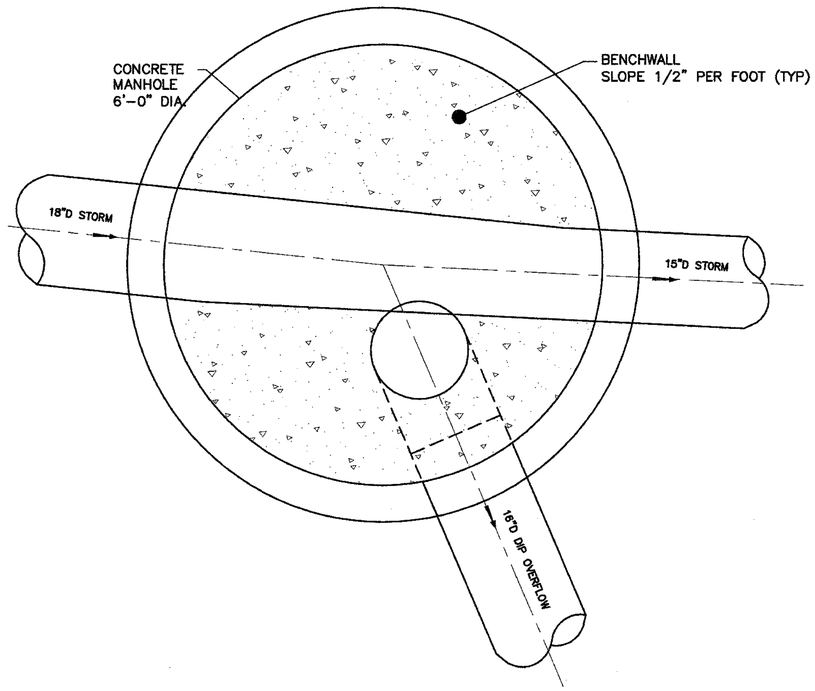
DRAINAGE MANHOLE WITH OVERFLOW – TYPICAL SECTION

NOT TO SCALE

NOTES:

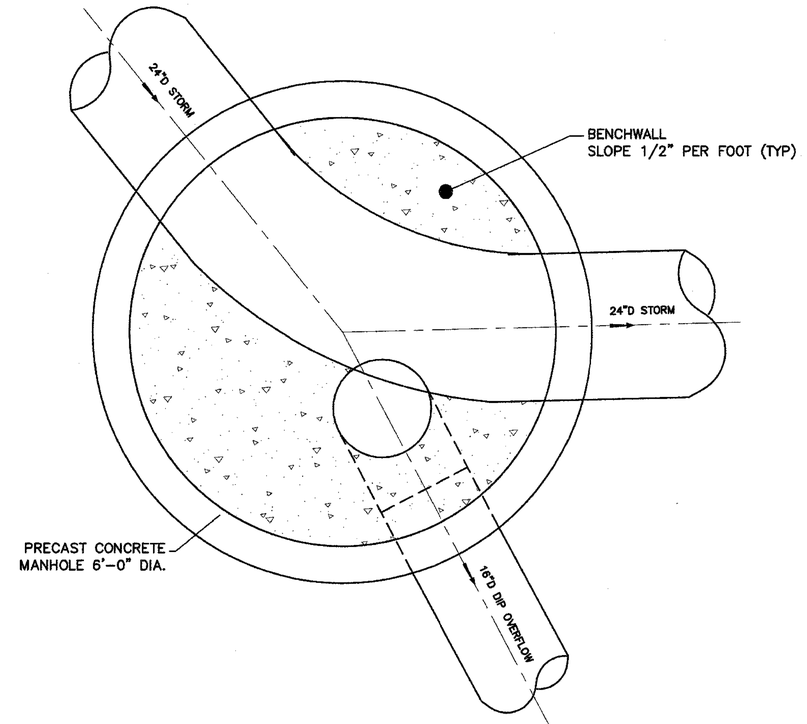
1. SEE PROFILES FOR INLET AND OUTLET ELEVATIONS.
2. INVERT OF OVERFLOW MANHOLE SHALL BE AS NEEDED TO FIT OVERFLOW ELBOW.

OVERFLOW ELEVATIONS:	
DMH-6:	380.5'
DMH-8:	381.0'



STORMWATER OVERFLOW DMH-8 DETAIL

NOT TO SCALE



STORMWATER OVERFLOW DMH-6 DETAIL

NOT TO SCALE

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:AS NOTED

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1	02/12	CHANGE ORDER NO. 1	GH

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In charge of RCF
Designed by NJH
Drawn by NJH
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

MISCELLANEOUS STORMWATER DETAILS

GENERAL

STATE OF NEW YORK · GERALD C. HOOK · LICENSED PROFESSIONAL ENGINEER · No. 57904

File Number 00663
Date 03/12
Gerald C. Hook

G-105A

SITE COORDINATES: REFER TO DWGS G-006 AND G-103

WORK LIMITS: REFER TO DWG G-007 FOR CONSTRUCTION ACCESS, SECURITY AND STAGING

LIMITS OF DISTURBANCE: REFER TO DWG G-120

EROSION CONTROL MEASURES: REFER TO DWG G-120

SITE UTILITIES: REFER TO DWGS G-122, G-124, G-125, G-126, G-133, AND E-008.

RFP #37

FIELD ORDER #61

FIELD ORDER #61

CLINTON STORAGE FACILITY

E=934542.03330
N=1110214.40261

E=934414.87855
N=1109957.47179

KEYED NOTES

1. MEET LINE OF EXISTING PAVEMENT
2. PAVEMENT MARKING: 4" PAINTED LINE
3. PAVEMENT MARKING: ACCESSIBILITY LOGO
4. PAVEMENT MARKING: 4" LINES 18" APART
5. PAVEMENT MARKING: 12" LINE WITH 5' x 6' LETTERING
6. REFER TO DWG E-008, LIGHT POLES ALONG ELEVATED WALK SHALL BE LOCATED WITHIN THE RAMPED SECTION
7. MOUNT SIGN ON EXISTING RETAINING WALL, REFER TO DET 4/G-112
8. REFER TO DWG G-133
9. REFER TO SPECIFICATIONS SECTION 02861, BICYCLE RACKS
10. EFFLUENT SAMPLER, REFER TO DWG G-137
11. SINGLE COURSE CONCRETE WALK
12. PARKING ATTENDANT BOOTH: REFER TO SPECIFICATION SECTION WITH DRAWING 13130 AND STRUCTURAL DETAILS FOR CONCRETE PAD
13. REFER TO DWG E-007
14. REFER TO DWG S-004
15. REFER TO DWG E-009
16. REFER TO DWG E-008
17. REFER TO DWG G-119
18. ASPHALT PAINT: TWO COMPONENT METHYL-METHACRYLATE (MMA) TRAFFIC MARKING PAINT WITH SWARCO MEGALUX 30/50 GLASS BEADS WITH T-13 COATING (AT LEAST 12 LBS PER 100 SF), AS IN ROADZILLA! MANUFACTURED BY AEXCEL CORPORATION. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

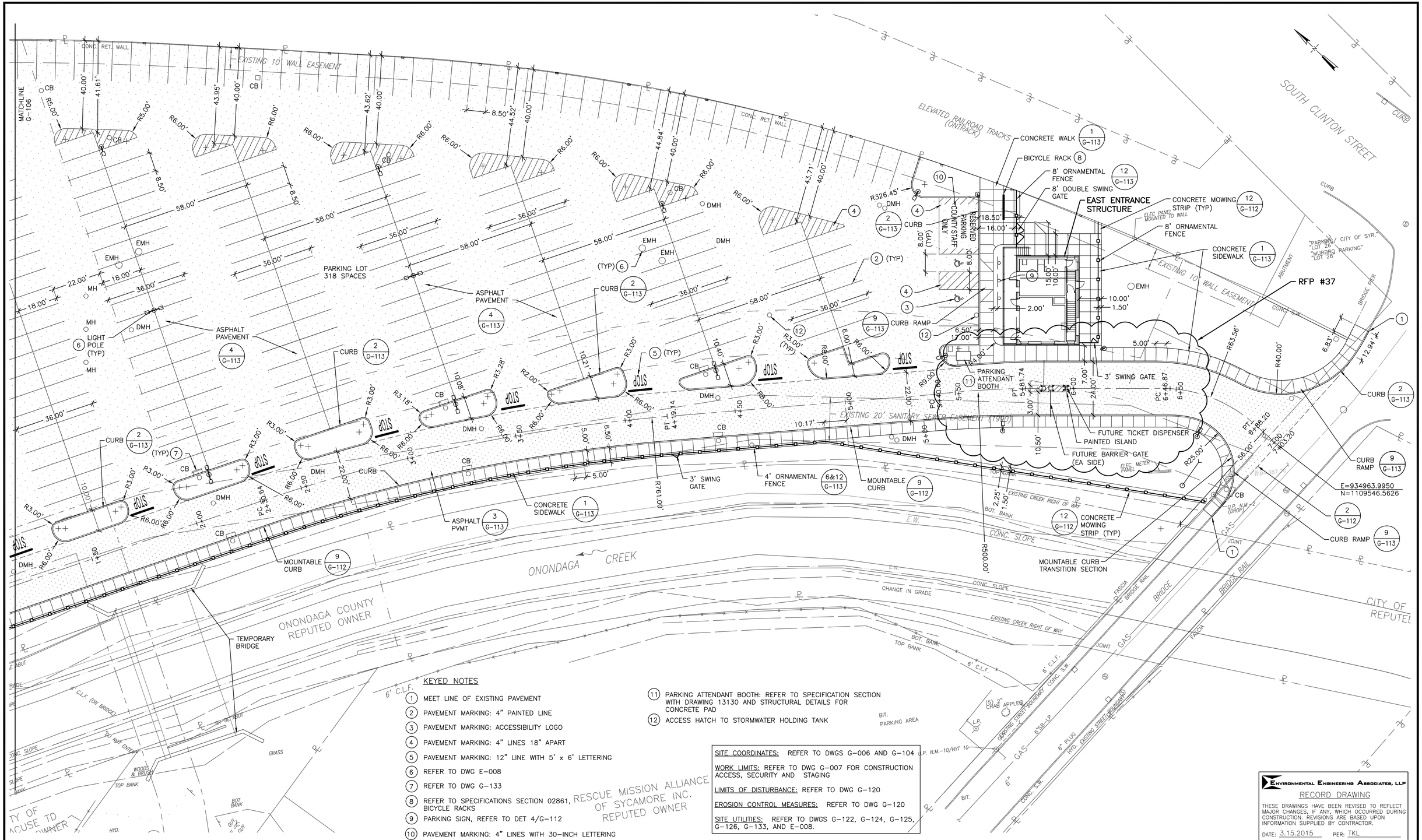
SITE LAYOUT PLAN – WEST

GENERAL

REGISTERED LANDSCAPE ARCHITECT TERESA ARTESTINA LUTOMSKI 001361 STATE OF NEW YORK

File Number 00663
Date 04/11

G-106



KEYED NOTES

1. MEET LINE OF EXISTING PAVEMENT
2. PAVEMENT MARKING: 4" PAINTED LINE
3. PAVEMENT MARKING: ACCESSIBILITY LOGO
4. PAVEMENT MARKING: 4" LINES 18" APART
5. PAVEMENT MARKING: 12" LINE WITH 5' x 6' LETTERING
6. REFER TO DWG E-008
7. REFER TO DWG G-133
8. REFER TO SPECIFICATIONS SECTION 02861, BICYCLE RACKS
9. PARKING SIGN, REFER TO DET 4/G-112
10. PAVEMENT MARKING: 4" LINES WITH 30-INCH LETTERING
11. PARKING ATTENDANT BOOTH: REFER TO SPECIFICATION SECTION WITH DRAWING 13130 AND STRUCTURAL DETAILS FOR CONCRETE PAD
12. ACCESS HATCH TO STORMWATER HOLDING TANK

SITE COORDINATES: REFER TO DWGS G-006 AND G-104

WORK LIMITS: REFER TO DWG G-007 FOR CONSTRUCTION ACCESS, SECURITY AND STAGING

LIMITS OF DISTURBANCE: REFER TO DWG G-120

EROSION CONTROL MEASURES: REFER TO DWG G-120

SITE UTILITIES: REFER TO DWGS G-122, G-124, G-125, G-126, G-133, AND E-008.

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SITE LAYOUT PLAN – EAST

GENERAL

REGISTERED LANDSCAPE ARCHITECT TERESA KRISTINA LUBOMSKY 001361 STATE OF NEW YORK

File Number 00663
Date 04/11

G-107

WORK LIMITS: REFER TO DWG G-007 FOR CONSTRUCTION ACCESS, SECURITY AND STAGING

LIMITS OF DISTURBANCE: REFER TO DWG G-120

EROSION CONTROL MEASURES: REFER TO DWG G-120

BANK RESTORATION:
INSTALL ROLLED EROSION CONTROL FABRIC ON SLOPES 5:1 AND STEEPER, REFER TO SPECIFICATIONS SECTION 02370, EROSION SEDIMENT CONTROL PLAN.
SEED WITH NATURALIZING SEED MIX, REFER TO SPECIFICATIONS SECTION 02936, LAWNS.

SITE UTILITIES: REFER TO DWGS G-122, G-124, G-125, G-126, G-133, AND E-008.

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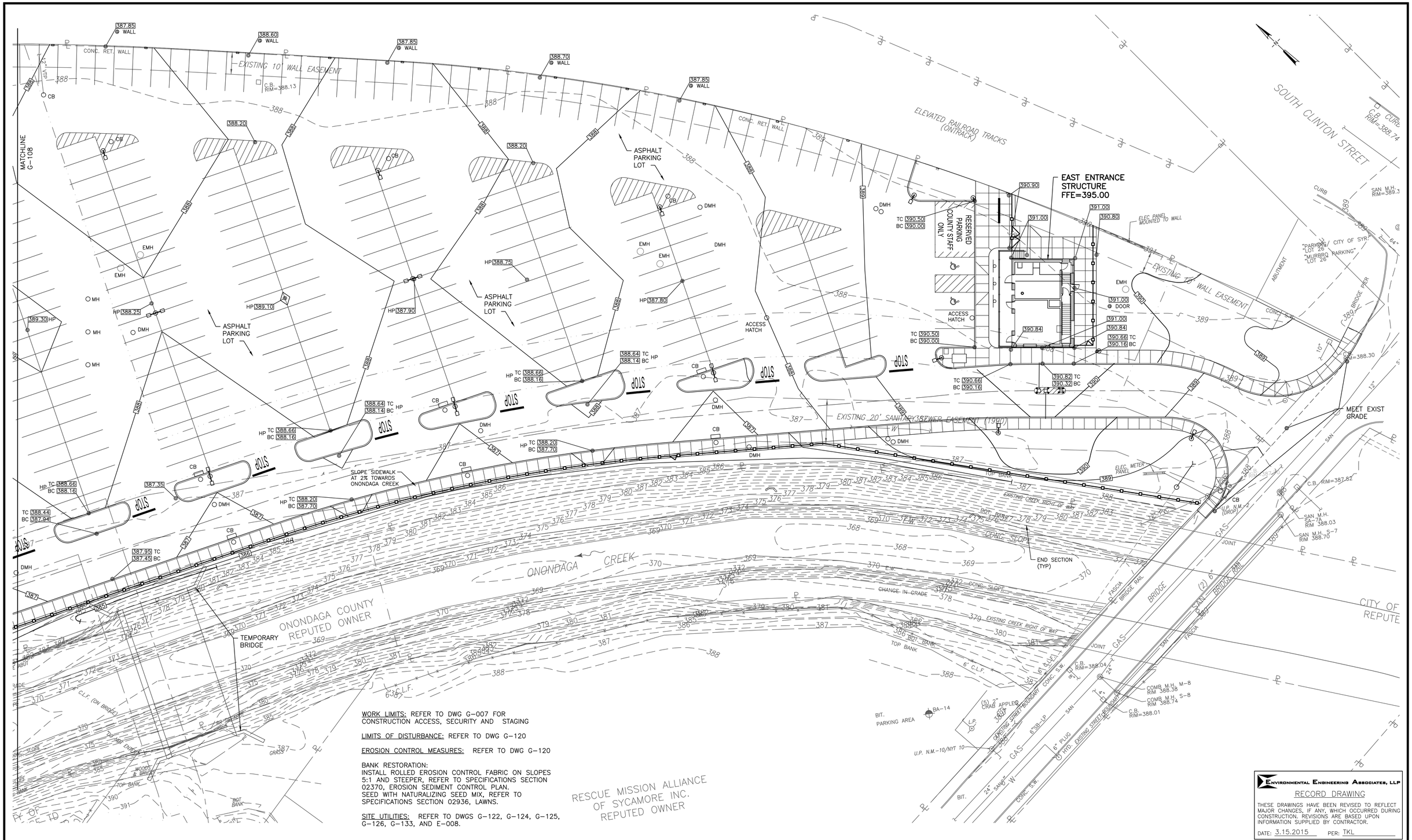
SITE GRADING PLAN – WEST

GENERAL

REGISTERED LANDSCAPE ARCHITECT · TERESA KRISTINA LUTOBORSKI · 001361 · STATE OF NEW YORK

File Number 00663
Date 04/11

G-108



WORK LIMITS: REFER TO DWG G-007 FOR CONSTRUCTION ACCESS, SECURITY AND STAGING

LIMITS OF DISTURBANCE: REFER TO DWG G-120

EROSION CONTROL MEASURES: REFER TO DWG G-120

BANK RESTORATION:
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SITE UTILITIES: REFER TO DWGS G-122, G-124, G-125, G-126, G-133, AND E-008.

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SITE GRADING PLAN – EAST

GENERAL

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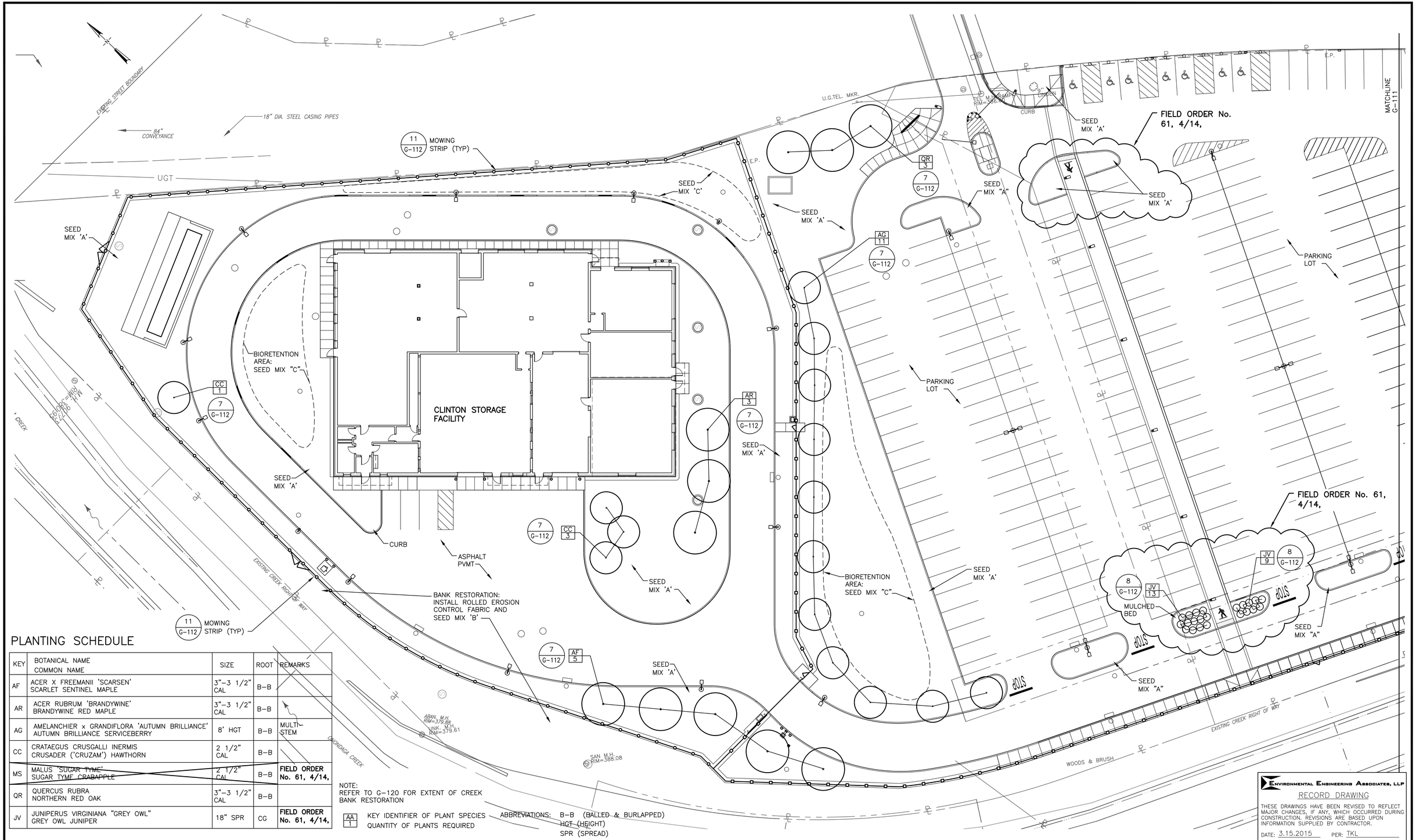
File Number 00663
Date 04/11

G-109



PLANTING SCHEDULE

KEY	BOTANICAL NAME / COMMON NAME	SIZE	ROOT	REMARKS
AF	ACER X FREEMANII 'SCARSEN' SCARLET SENTINEL MAPLE	3"–3 1/2" CAL	B–B	
AR	ACER RUBRUM 'BRANDYWINE' BRANDYWINE RED MAPLE	3"–3 1/2" CAL	B–B	
AG	AMELANCHIER x GRANDIFLORA 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY	8' HGT	B–B	MULTI-STEM
CC	CRATAEGUS CRUSGALLI INERMIS CRUSADER ('CRUZAM') HAWTHORN	2 1/2" CAL	B–B	
~~MS~~	~~MALUS 'SUGAR TYME' SUGAR TYME CRABAPPLE~~	~~2 1/2" CAL~~	~~B–B~~	**FIELD ORDER No. 61, 4/14,**
QR	QUERCUS RUBRA NORTHERN RED OAK	3"–3 1/2" CAL	B–B	
JV	JUNIPERUS VIRGINIANA "GREY OWL" GREY OWL JUNIPER	18" SPR	CG	**FIELD ORDER No. 61, 4/14,**

NOTE:
REFER TO G–120 FOR EXTENT OF CREEK BANK RESTORATION

AA 1 KEY IDENTIFIER OF PLANT SPECIES
QUANTITY OF PLANTS REQUIRED

ABBREVIATIONS: B–B (BALLED & BURLAPPED)
HGT (HEIGHT)
SPR (SPREAD)

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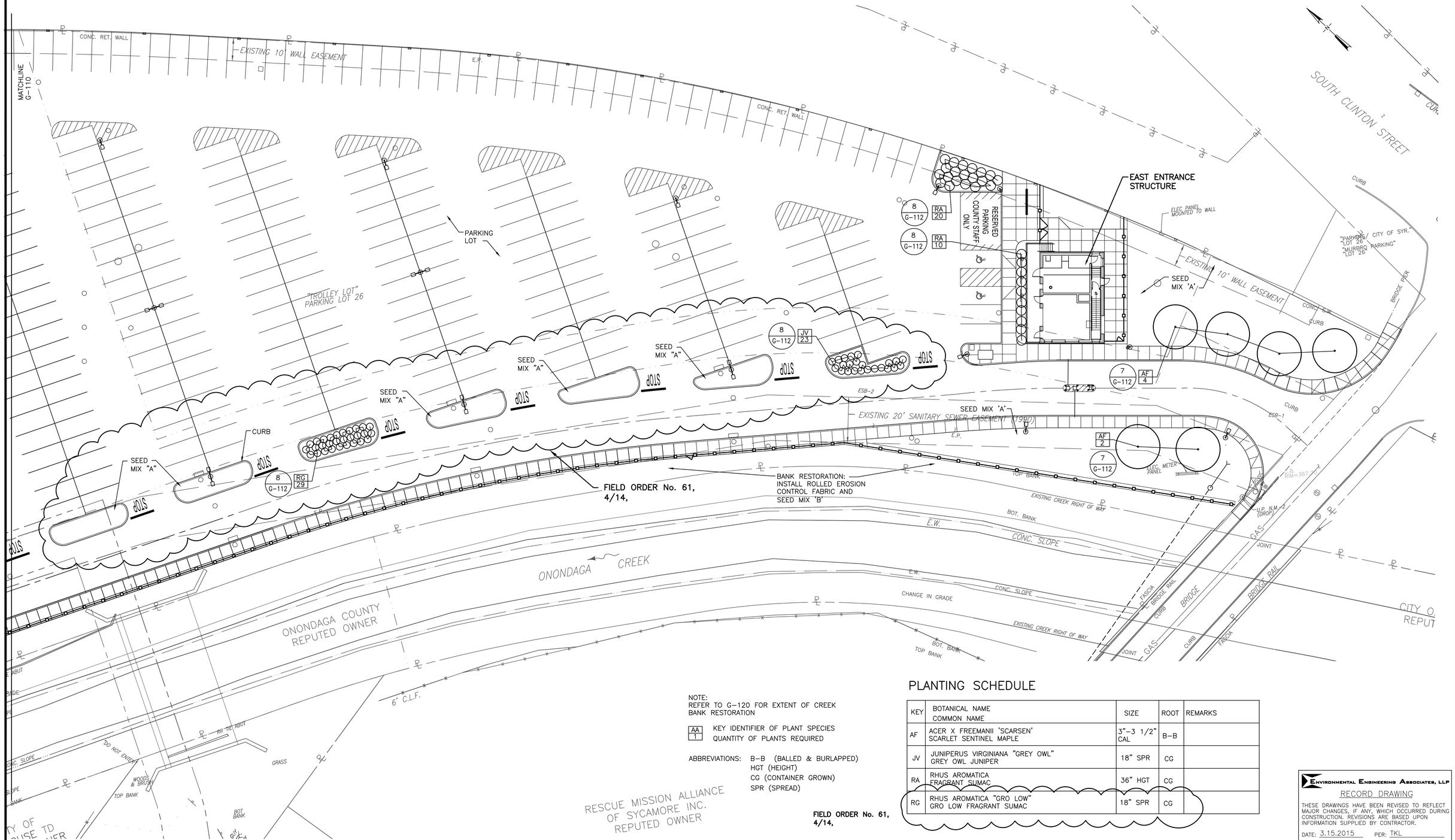
LANDSCAPE PLAN – WEST

GENERAL

REGISTERED LANDSCAPE ARCHITECT TERESA KRISTINA LUBOMSKY 001361 STATE OF NEW YORK

File Number 00663
Date 04/11

G–110



NOTE:
REFER TO G-120 FOR EXTENT OF CREEK BANK RESTORATION

AA / 1 KEY IDENTIFIER OF PLANT SPECIES / QUANTITY OF PLANTS REQUIRED

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

FIELD ORDER No. 61, 4/14,

PLANTING SCHEDULE

KEY	BOTANICAL NAME / COMMON NAME	SIZE	ROOT	REMARKS
AF	ACER X FREEMANII 'SCARSEN' / SCARLET SENTINEL MAPLE	3"-3 1/2" CAL	B-B	
JV	JUNIPERUS VIRGINIANA "GREY OWL" / GREY OWL JUNIPER	18" SPR	CG	
RA	RHUS AROMATICA / FRAGRANT SUMAC	36" HGT	CG	
RG	RHUS AROMATICA "GRO LOW" / GRO LOW FRAGRANT SUMAC	18" SPR	CG	

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LANDSCAPE PLAN – EAST

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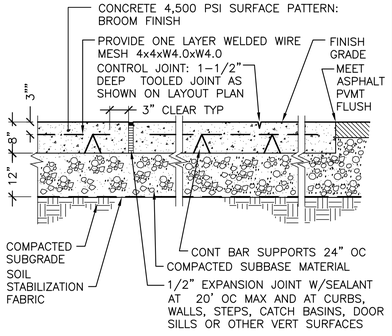
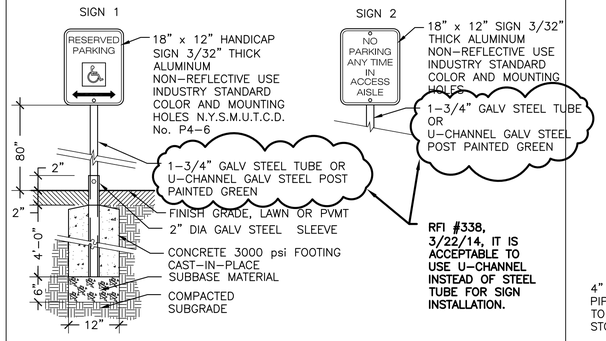
G-111



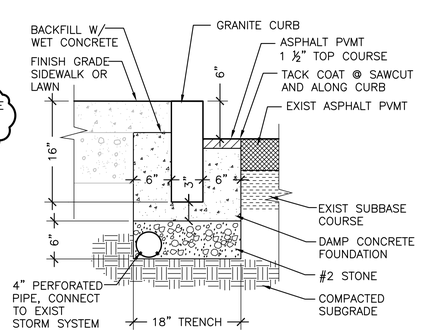
CONCRETE PAVEMENT

NOT TO SCALE — 5 — G–112



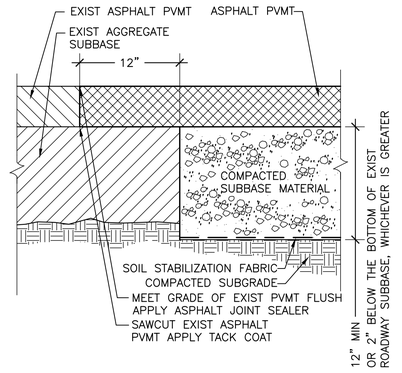
PARKING SIGNS

NOT TO SCALE — 4 — G–112



GRANITE CURB RESTORATION

NOT TO SCALE — 3 — G–112



PAVEMENT RESTORATION JOINT

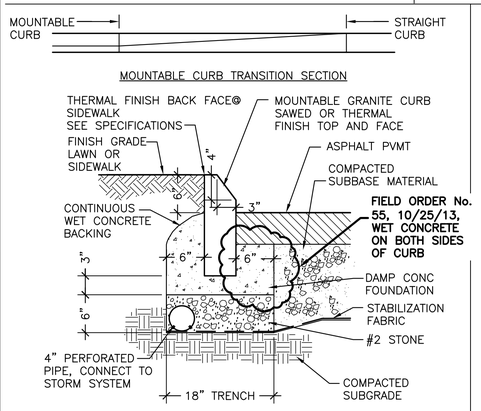
NOT TO SCALE — 2 — G–112

DRAWING KEY	DESCRIPTION
1	UNCLASSIFIED EXCAVATION AND DISPOSAL
2	EMBANKMENT IN PLACE
3	SUBBASE COURSE (12")
4	ASPHALT CONCRETE – TYPE 1 BASE COURSE (TWO–4" LIFTS)
5	ASPHALT CONCRETE – TYPE 3 BINDER COURSE (ONE 1–1/2" LIFT)
6	ASPHALT CONCRETE – TYPE 7F TOP COURSE (ONE 1–1 1/2" LIFT)
7	FIBER REINFORCED (FIBERMESH 300 OR APPROVED EQUAL) PORTLAND CEMENT CONCRETE 3,000 psi (8" THICK)
8	GEOTEXTILE FABRIC
9	GRANITE CURB (5" X 16")
10	ESTABLISHING TURF
11	TOPSOIL

GENERAL NOTES (THIS DRAWING):

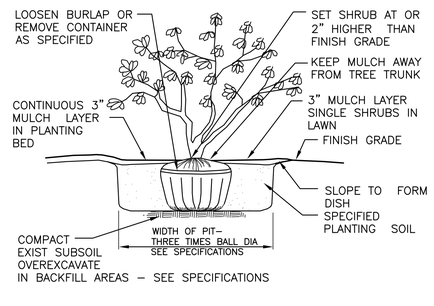
1.1 SLOPE ASPHALT PAVEMENT 1/4"/FT MIN. PROVIDE 6" REVEAL AT NEW CURB.

1.2 ASPHALT TACK COAT TO BE DURAFILL D3405 OR EQUAL. TACK COAT MUST MEET REQUIREMENTS OF ASTM D3405



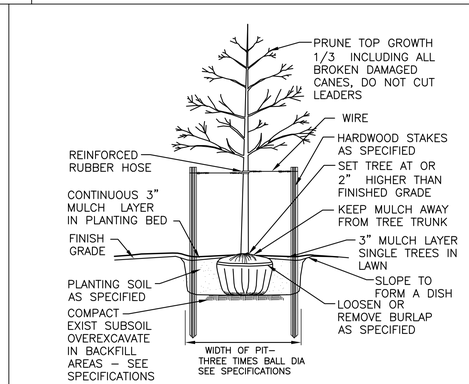
MOUNTABLE CURB

NOT TO SCALE — 9 — G–112



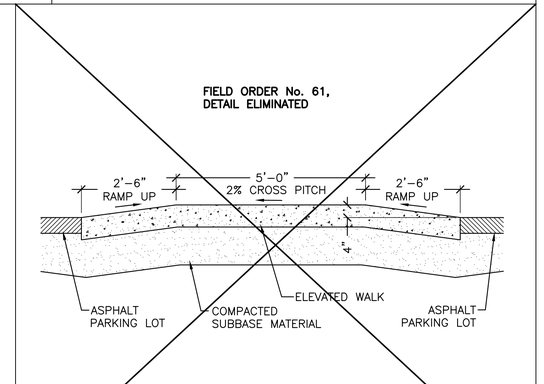
SHRUB PLANTING

NOT TO SCALE — 8 — G–112



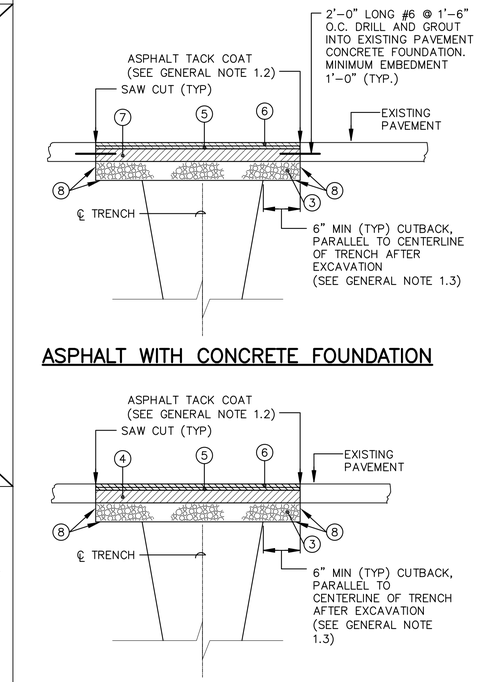
DECIDUOUS TREE PLANTING

NOT TO SCALE — 7 — G–112



ELEVATED CONCRETE WALK

NOT TO SCALE — 6 — G–112

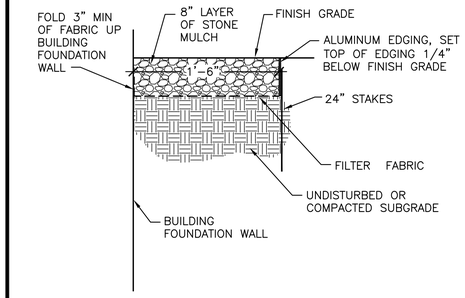


ASPHALT WITH CONCRETE FOUNDATION

FULL–DEPTH ASPHALT

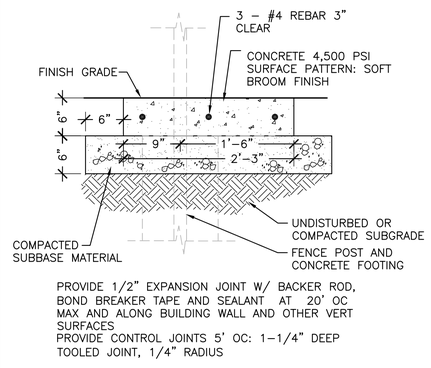
ASPHALT PAVEMENT RESTORATION

NOT TO SCALE — 1 — G–112



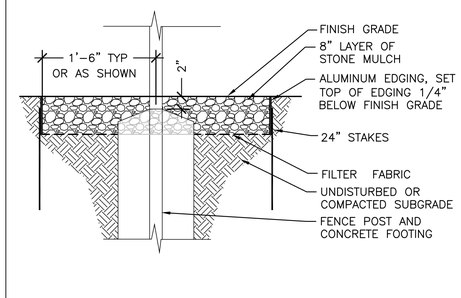
MOWING STRIP AT BUILDING

NOT TO SCALE — 13 — G–112



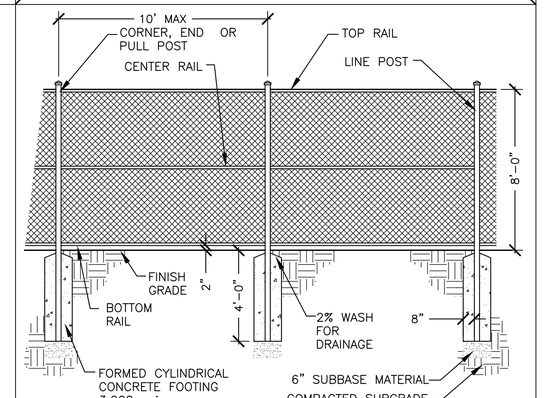
CONCRETE MOWING STRIP

NOT TO SCALE — 12 — G–112



MOWING STRIP AT FENCE

NOT TO SCALE — 11 — G–112



CHAIN LINK FENCE

SCALE 1/2"=1'–0" — 10 — G–112

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SITE DETAILS

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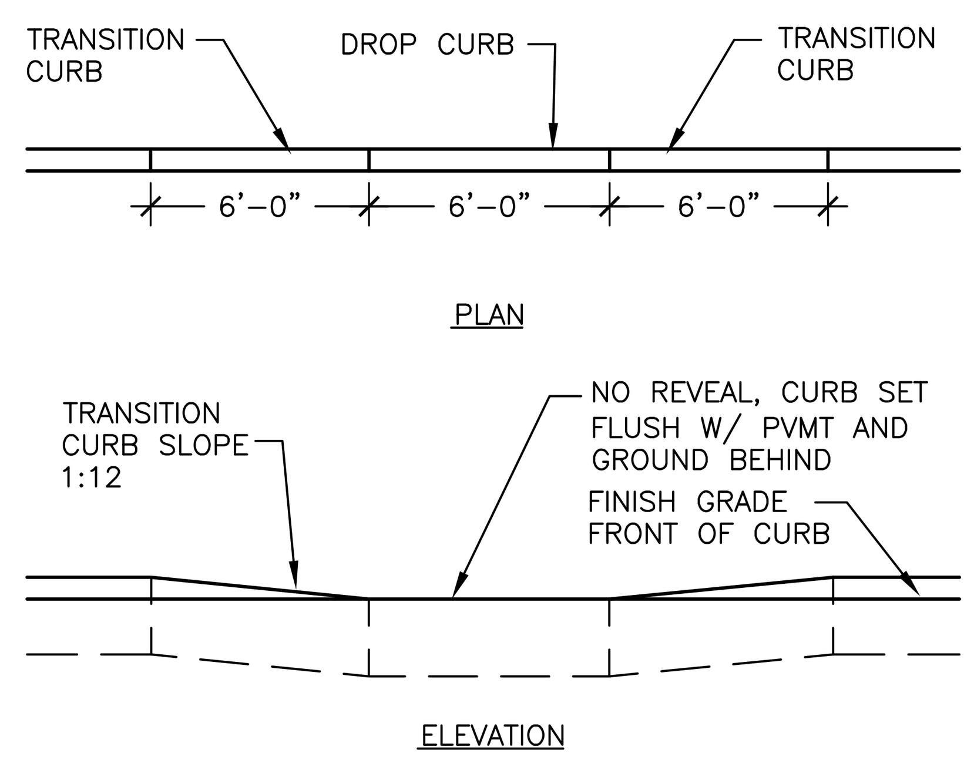
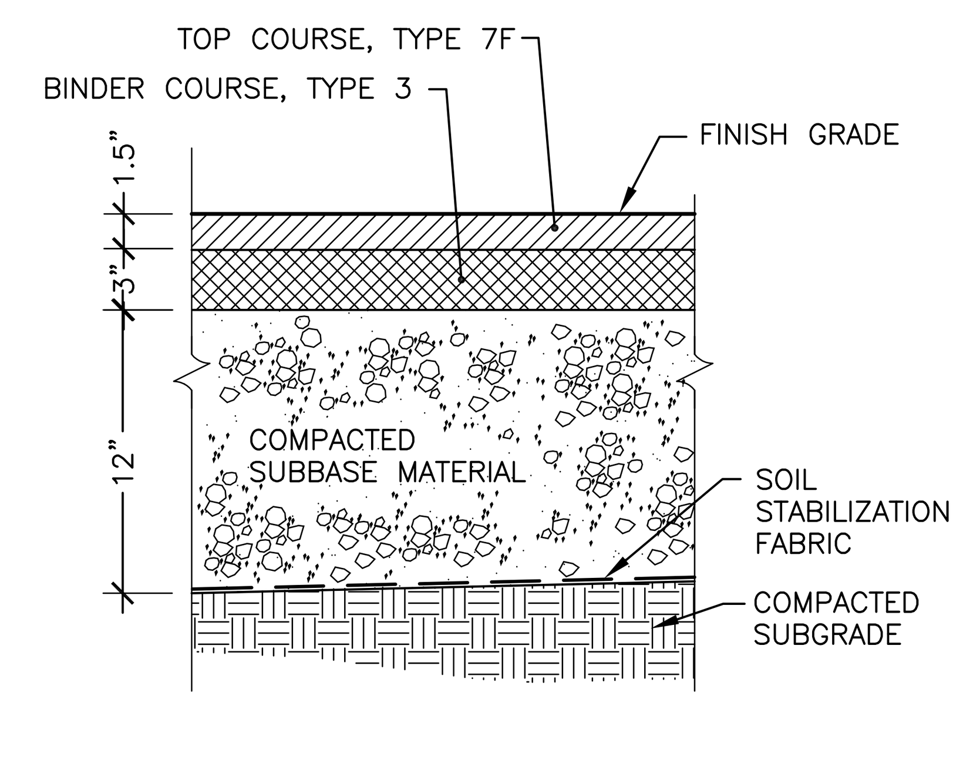


DROP CURB (5, G-113)
NOT TO SCALE



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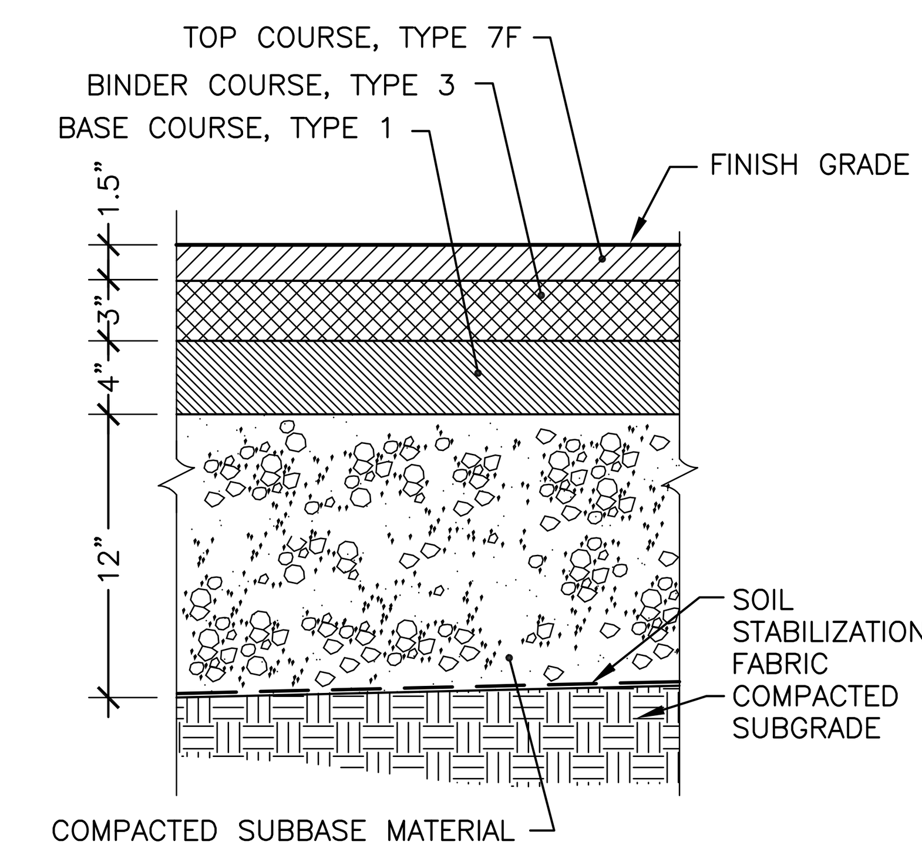

ASPHALT PAVEMENT – HEAVY DUTY (3, G-113)
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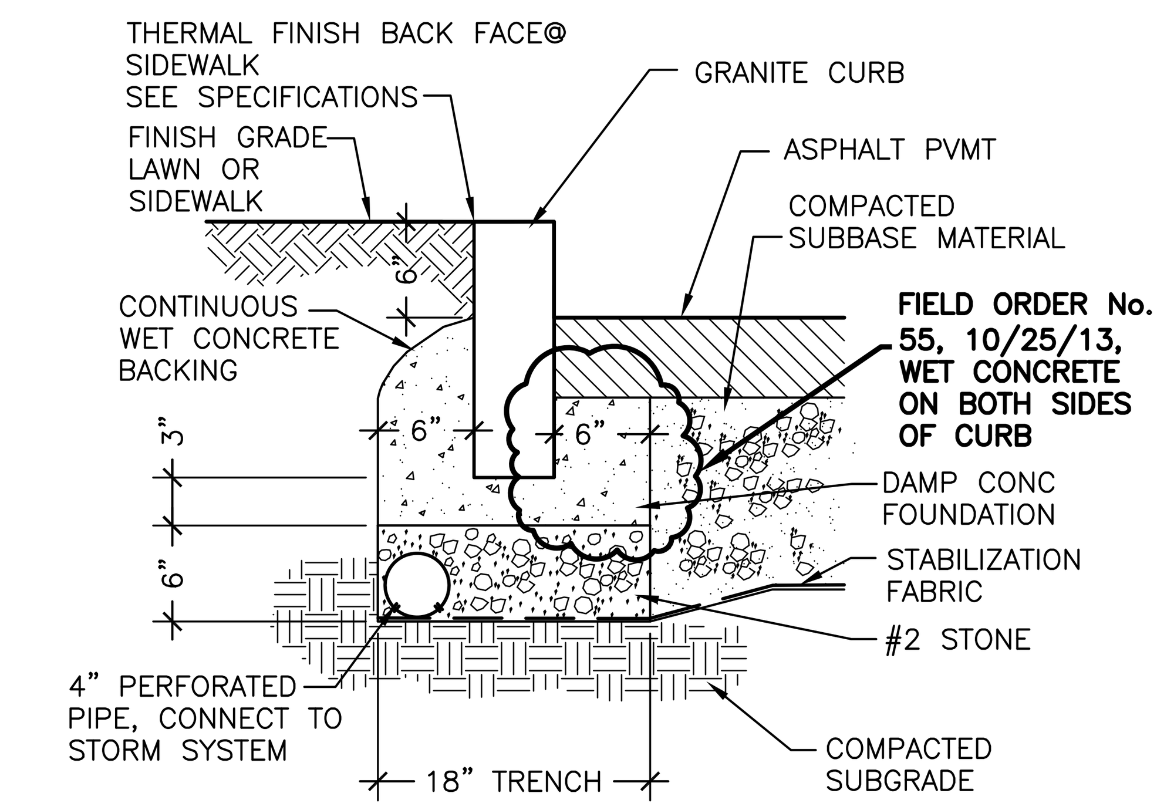
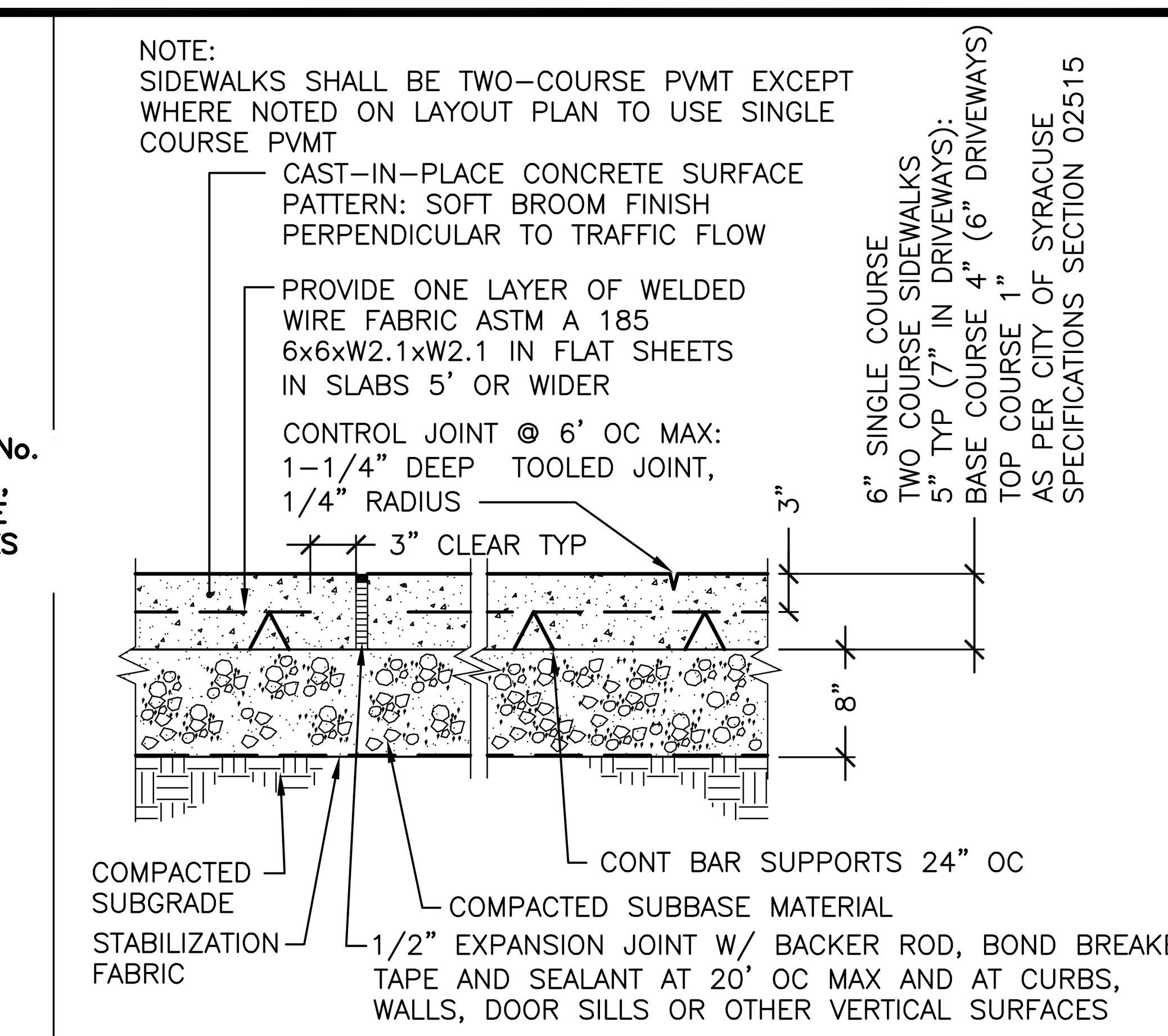
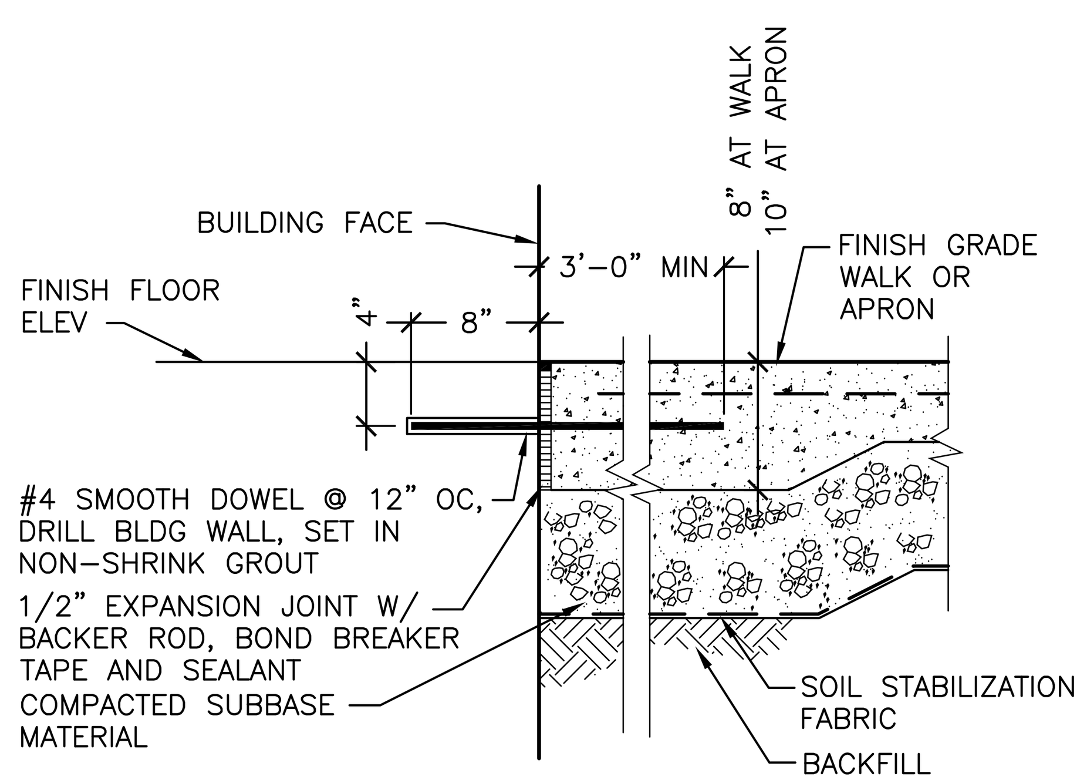


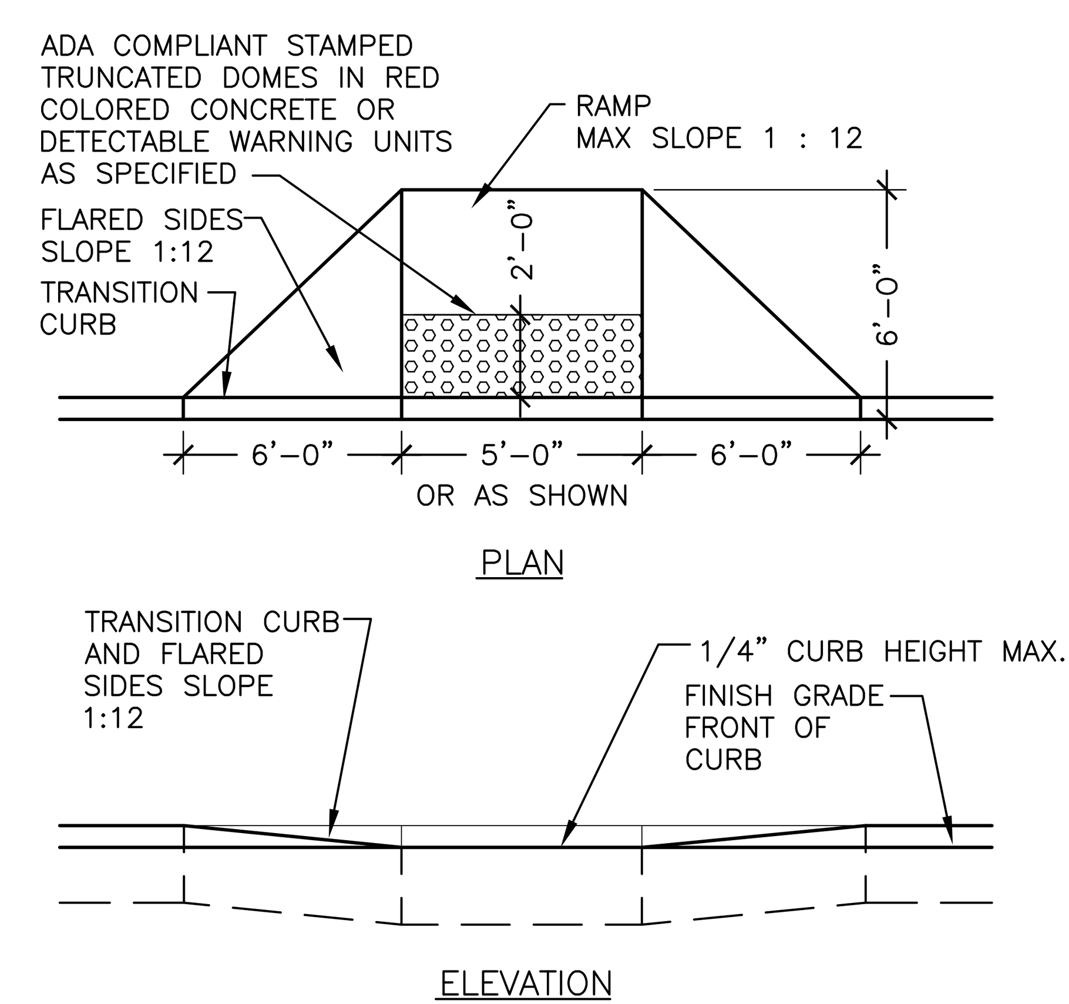
GRANITE CURB (2, G-113)
NOT TO SCALE



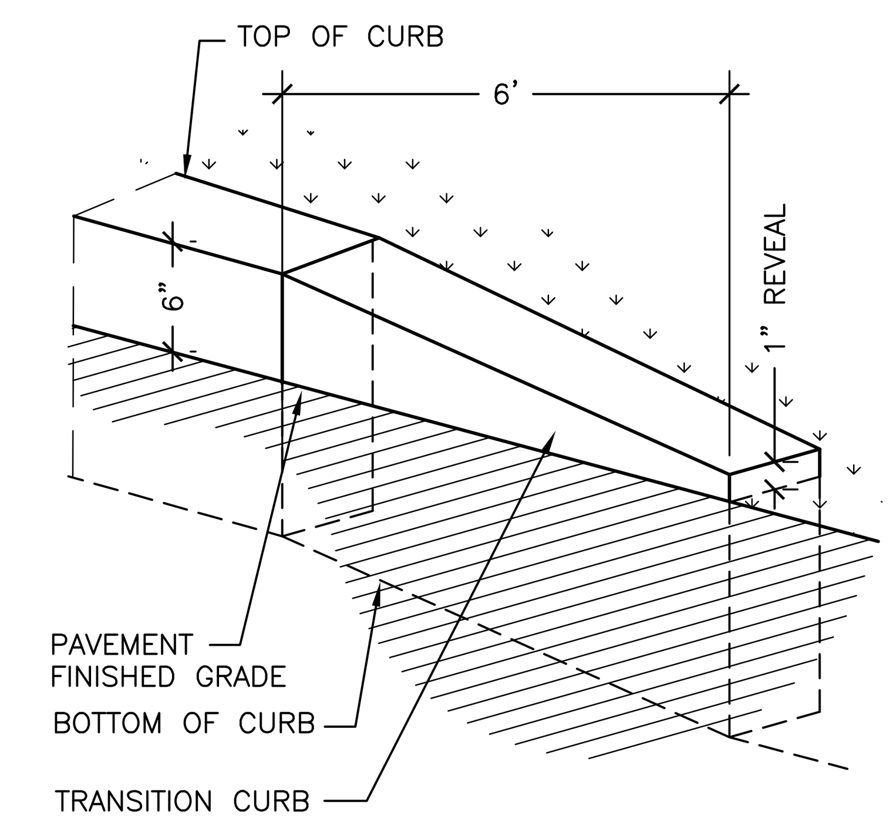
CONCRETE WALK (1, G-113)
NOT TO SCALE



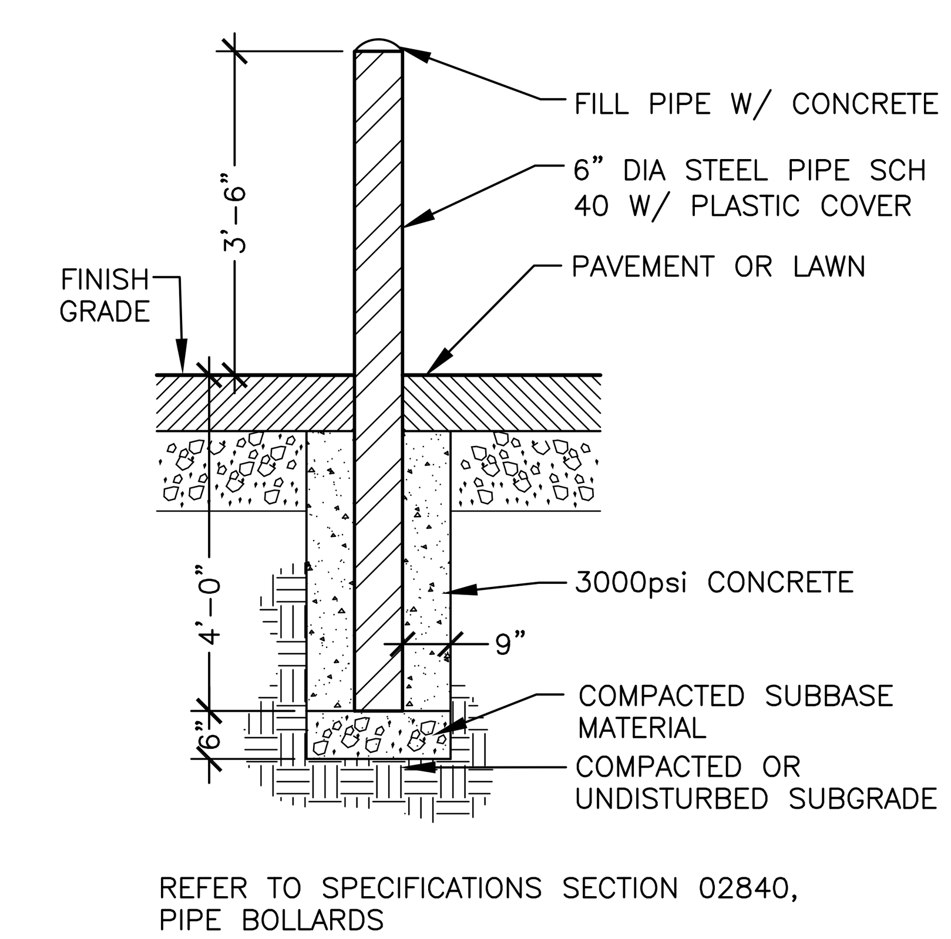
CONCRETE WALK AT DOOR (10, G-113)
NOT TO SCALE



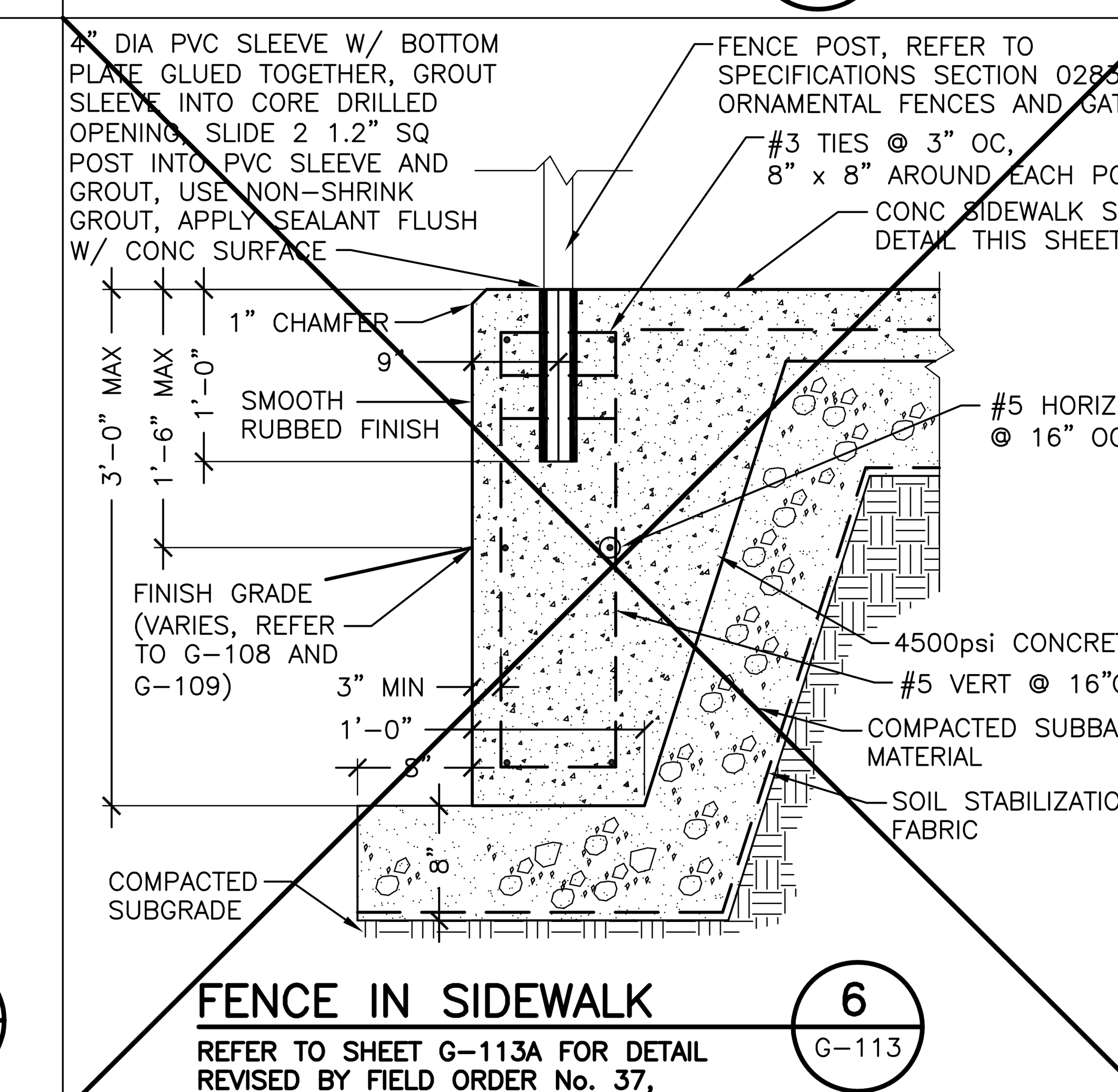
CURB RAMP (9, G-113)
NOT TO SCALE



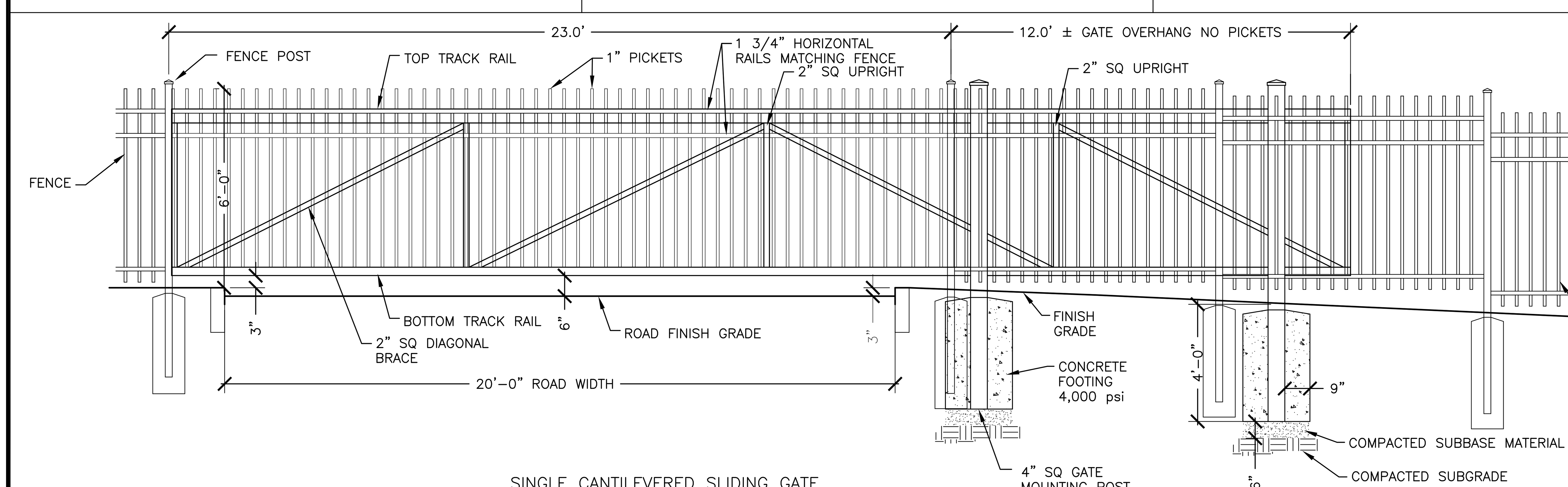
CURB TERMINAL (8, G-113)
NOT TO SCALE



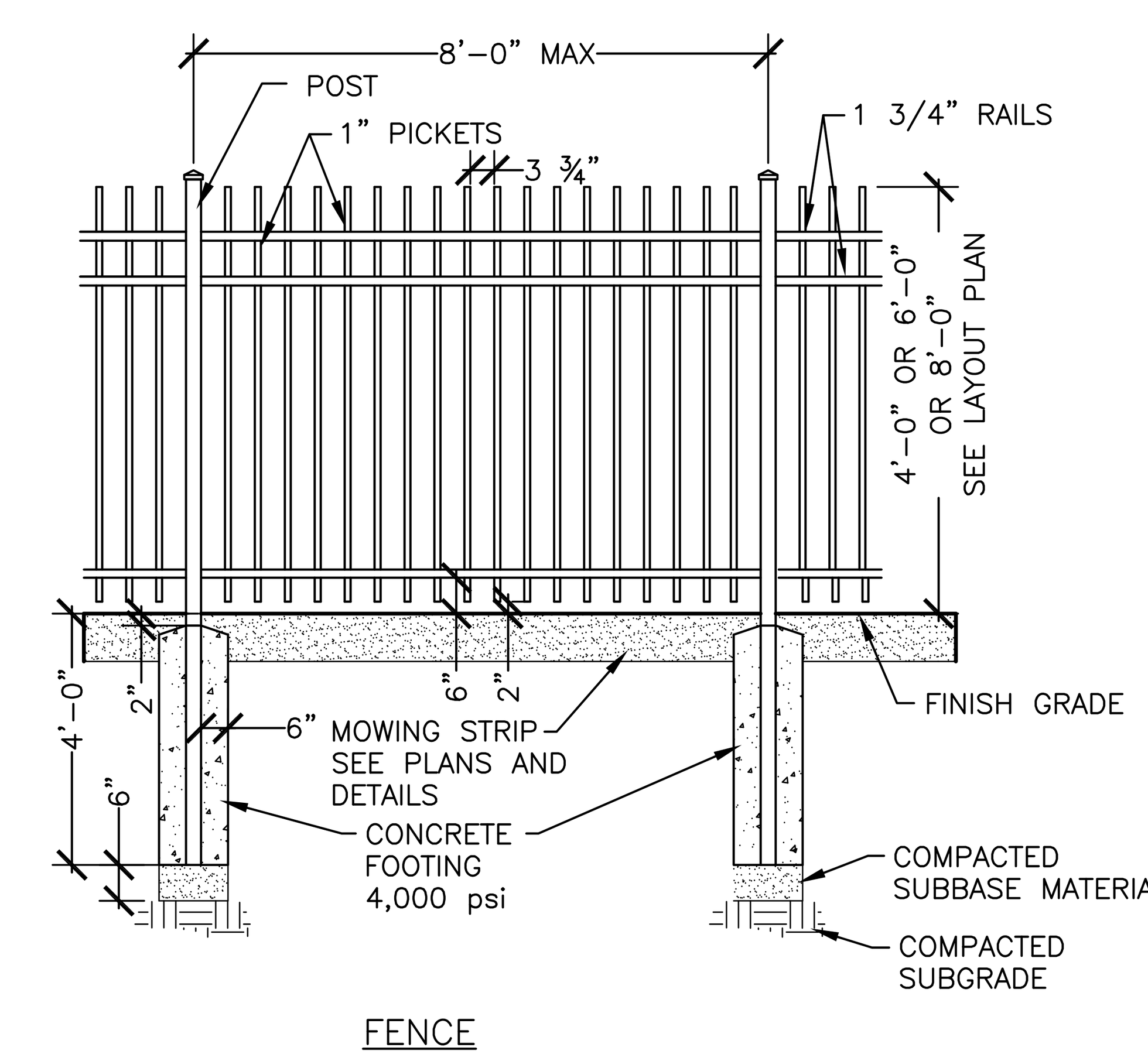
BOLLARD (7, G-113)
NOT TO SCALE

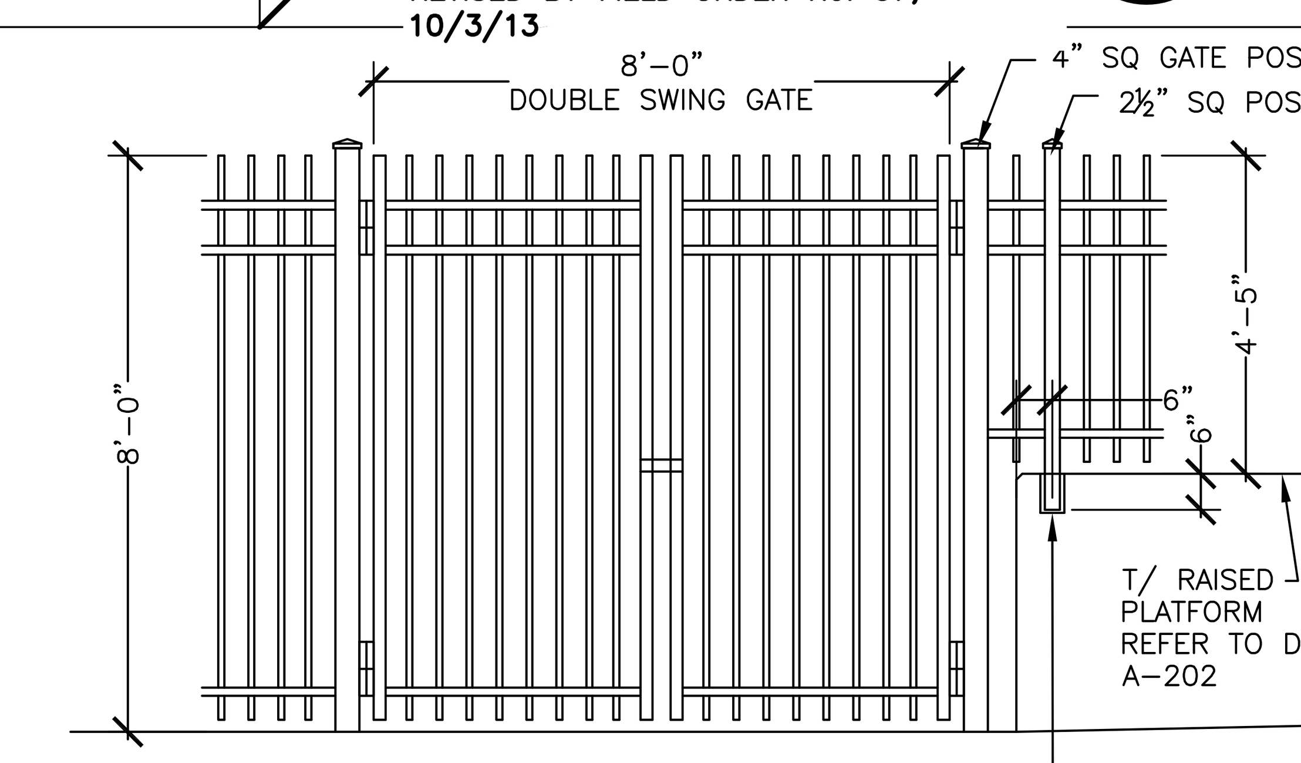


FENCE IN SIDEWALK (6, G-113)
REFER TO SHEET G-113A FOR DETAIL REVISED BY FIELD ORDER No. 37, 10/3/13



ORNAMENTAL PICKET FENCE AND GATES (12, G-113)
SCALE 3/8"=1'-0"





4" PVC SLEEVE W/ BOTTOM PLATE GLUED TOGETHER, GROUT SLEEVE INTO CORE-DRILLED OPENING, SLIDE 2½" SQ POST INTO SLEEVE AND GROUT, USE ONLY NON-SHRINK GROUT, APPLY SEALANT FLUSH W/ CONCRETE SURFACE

FENCE AND GATE ELEVATION AT EA

POST SIZES (REFER TO SPECIFICATIONS SECTIO
FENCE HEIGHT UP TO 6' – 2 ½" SQ ALUM PO
FENCE HEIGHT 8' – 3" SQ ALUM POST
GATE POSTS – 4" SQ STEEL POST

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
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: 3.15.2015 PER: TKL

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE: AS NOTED

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No.	Date	Revisions	Init
2	04/11	AS BID	TKL
1	01/11	ISSUED FOR APPROVAL	TKL

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

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Landscape & Prospect
Landscape Architecture
107 Saybrook Lane, Syracuse, NY 13214
315-446-0102 • fax 315-446-1245

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

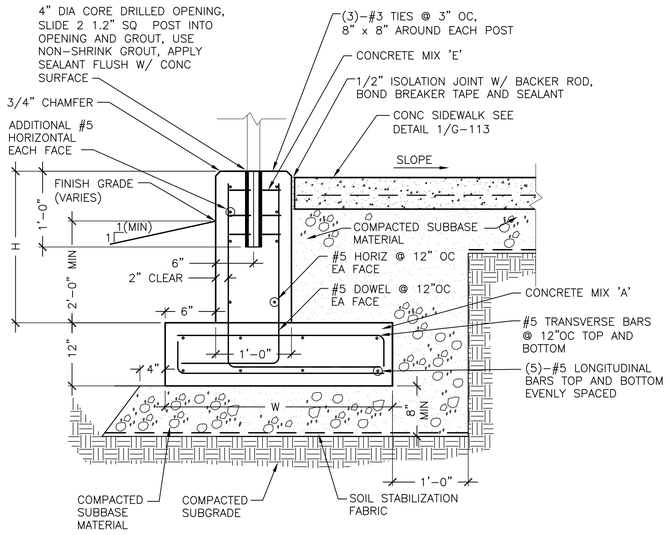
SITE DETAILS

GENERAL

REGISTERED LANDSCAPE ARCHITECT • TERESA KRISTINA LUTOWSKI • 001361 • STATE OF NEW YORK

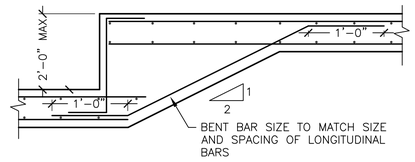
File Number 00663
Date 04/11

G-113



NOTES:

1. PROVIDE WALL CONTROL JOINTS AT EVERY SIDEWALK EXPANSION JOINT LOCATION.
2. PROVIDE 1-INCH EXPANSION JOINT IN THE WALL EVERY 250(±) FEET. INSTALL #8 SLIP DOWELS IN ACCORDANCE WITH SECTION 03250. IN LIEU OF CASTING IN A PLASTIC SLEEVE, IT WOULD BE ACCEPTABLE TO DRILL A 1 1/4-INCH HOLE INTO HARDENED CONCRETE



RETAINING WALL CHART	
H (MAX)	W (MIN)
3'-0"	2'-0"
4'-0"	3'-0"
5'-0"	4'-0"

FENCE IN SIDEWALK, SHORT WALL, REVISED DETAIL 6/G-113 (1 / G-113A)

NOT TO SCALE

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

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RECORD DRAWING
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DATE: 3.15.2015 PER: TKL

SCALE: AS NOTED

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No.	Date	Revisions	Init
1	10/13	FIELD ORDER #37	TKL

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SYRACUSE, NEW YORK

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315-446-0102 ▪ fax 315-446-1245

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

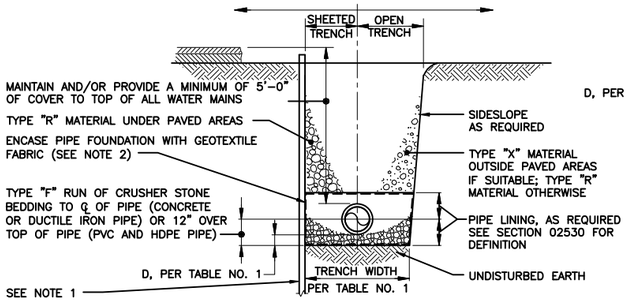
SITE DETAILS

GENERAL

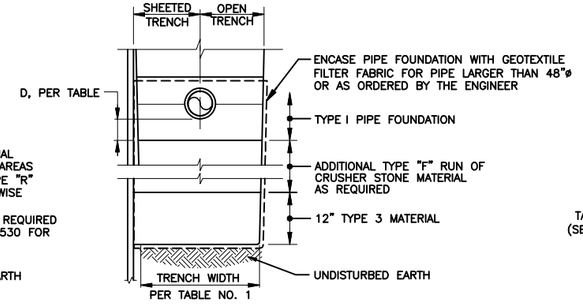
REGISTERED LANDSCAPE ARCHITECT TERESA KRISTINA LOTOSRAKY 001361 STATE OF NEW YORK

File Number 00663
Date 04/11

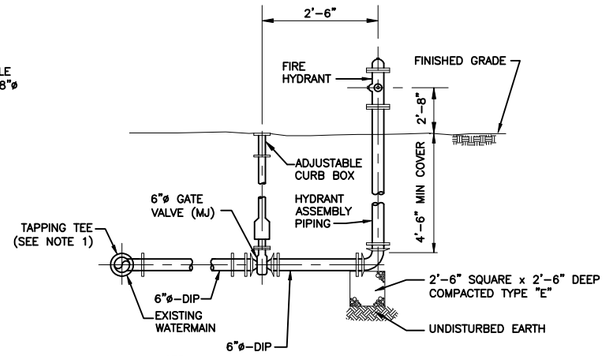
G-113A



TYPE I
PIPE FOUNDATION/TRENCH
FOR STABLE SOILS

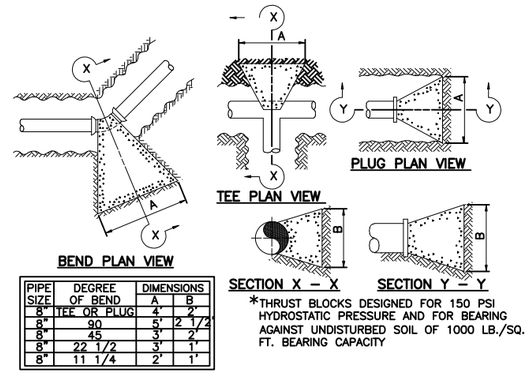


TYPE II
IMPROVED PIPE FOUNDATION
FOR UNSTABLE SOILS



NOTE:
1. ALL MECHANICAL JOINT CONNECTIONS SHALL BE OF THE RESTRAINED TYPE.
2. FIRE HYDRANT ASSEMBLY COMPLETE TO COMPLY WITH THE CITY OF SYRACUSE STANDARDS.

FIRE HYDRANT DETAIL
NOT TO SCALE



PIPE SIZE	DEGREE OF BEND	DIMENSIONS A	B
8"	TEE OR PLUG	4'	2'
8"	90	5'	2 1/2'
8"	45	3'	2'
8"	22 1/2	3'	1'
8"	11 1/4	2'	1'

*THRUST BLOCKS DESIGNED FOR 150 PSI HYDROSTATIC PRESSURE AND FOR BEARING AGAINST UNDISTURBED SOIL OF 1000 LB./SQ. FT. BEARING CAPACITY

*TYPICAL DIMENSIONS OF THRUST BLOCKS FOR HORIZONTAL BENDS, TEES AND PLUGS OF WATER MAINS
NOT TO SCALE

TABLE NO. 1			
TRENCH WIDTH EXCAVATION LIMITS			
PIPE I.D.	WIDTH MAXIMUM	WIDTH MINIMUM	D
4", 6"	3'-0"	2'-0"	4"
8", 10"	3'-6"	2'-2"	4"
12"*	3'-9"	O.D. + 2'	4"
15"	3'-9"	O.D. + 2'	4"
16"	3'-6"	O.D. + 2'	6"
18"	6'-0"	O.D. + 2'	6"
24"	7'-0"	O.D. + 2'	6"

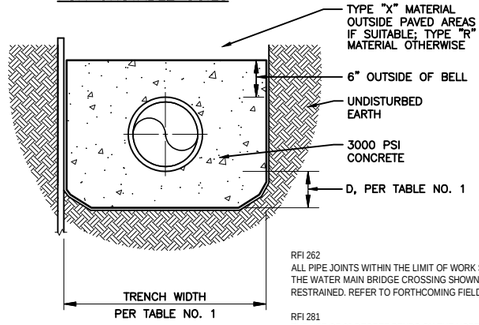
D = DEPTH BETWEEN BOTTOM OF PIPE AND BOTTOM OF NORMAL PIPE FOUNDATION

OD = OUTSIDE DIAMETER

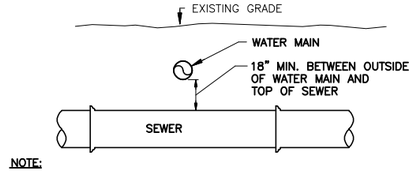
IF MAXIMUM WIDTH IS EXCEEDED, CONCRETE ENCASEMENT SHALL BE INSTALLED TO UNDISTURBED EARTH

2

*NOT FOR 12" SANITARY SEWER SEE DETAIL ON SHEET G-129

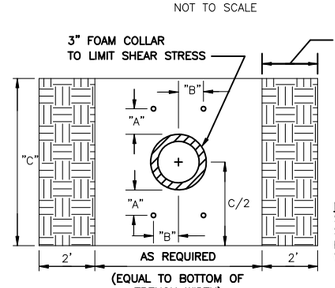


TYPE III
CONCRETE ENCASEMENT



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

TYPICAL WATER & SEWER CROSSING
NOT TO SCALE



NOTE:
STEEL REINFORCING RODS SHALL BE USED. NO. 4 BARS 10" ON CENTER EACH WAY

PIPE SIZE	"A"	"B"	"C"	RESTRAINT HOLE DIA.
8"	5 1/2"	5 3/4"	36"	7/8"
16"	N/A	N/A	36"	N/A*

*FOR 16" HDPE F.M., INSTALL ANCHOR COLLAR ON PIPE & DELETE FOAM COLLAR

CONCRETE TRENCH THRUST BLOCK
NOT TO SCALE

NOTE
1. YARD PIPING INCLUDES SANITARY LATERALS, STORM, AND WATER UTILITY PIPING. REFER TO SHEET G-129 FOR CONVEYANCE TRENCHING DETAIL AND 12" SANITARY SEWER TRENCH DETAIL.

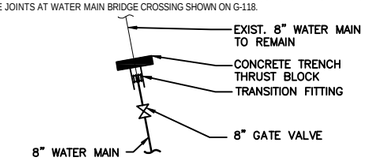
PIPE FOUNDATION/TRENCH DETAILS (YARD PIPING)
NOT TO SCALE

FO 10
USE TYPE F SELECT FILL FOR FULL DEPTH BACKFILL OF ALL TRENCHES WITHIN THE BOUNDARY OF A CITY STREET. THIS WOULD APPLY TO PIPE TRENCHES AND ELECTRICAL DUCT BANKS TO BE CONSTRUCTED IN THE DICKERSON ST CITY ROW. ADDITIONAL BACKFILL WOULD BE PAID UNDER BID ITEM 4.7 ADDITIONAL BACKFILL AS ORDER BY THE ENGINEER.

FO 30
DUE TO THE PRESENCE OF SUSPECTED IMPACTED MATERIALS, THE GASKETS UTILIZED ON THE DUCTILE IRON WATERMAINS SHALL BE OIL RESISTANT BUNA-N (NITRILE) RUBBER.

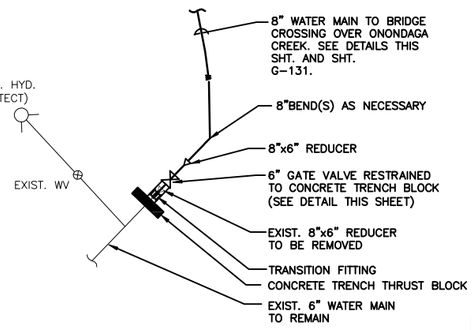
FO 52
ALL PIPE JOINTS WITHIN THE LIMIT OF WORK SPECIFIED UNDER THE WATER MAIN BRIDGE CROSSING SHOWN ON G-118 SHALL BE RESTRAINED.

PROVIDE EBBA IRON, SERIES 1700 MEGALUG RESTRAINT HARNESSES, OR EQUAL, TO BE INSTALLED ON ABOVE GRADE PUSH-ON PIPE JOINTS AT WATER MAIN BRIDGE CROSSING SHOWN ON G-118.

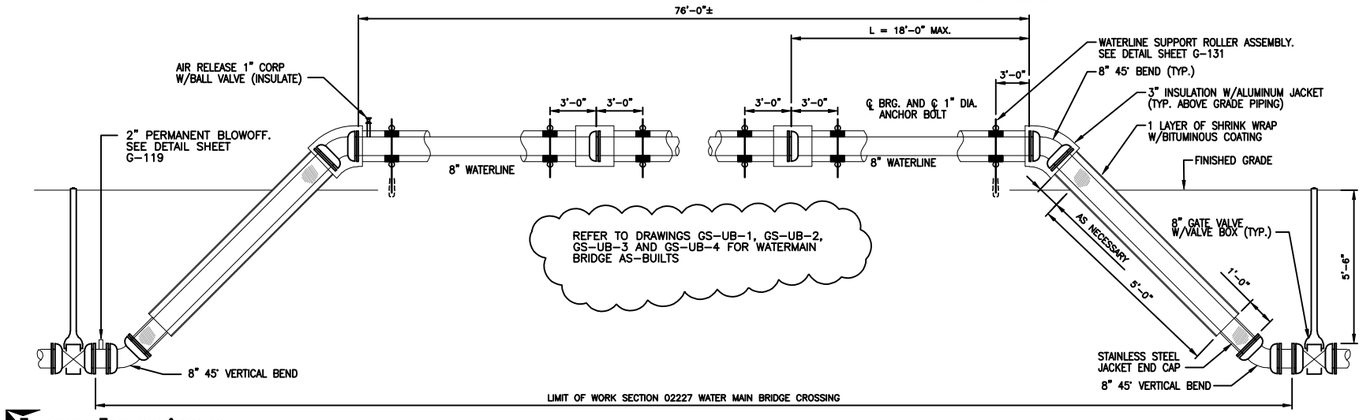


WATER MAIN CONNECTION DETAIL – NO. 1
NOT TO SCALE

NOTES:
1. REFER TO YARD PIPING PLAN FOR ACTUAL LOCATIONS OF CONNECTIONS AND CONFIGURATIONS.
2. ALL FITTINGS TO BE FULLY RESTRAINED MECHANICAL JOINT, MEGALUG OR APPROVED EQUAL.
3. REFER TO SPECIAL PROJECT CONDITIONS FOR WORK ON CITY WATER MAINS.



WATER MAIN CONNECTION DETAIL – NO. 2
NOT TO SCALE



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DATE: 05/16 PER: RCF

SECTION–WATER MAIN OVER ONONDAGA CREEK
NOT TO SCALE

NOTES:
1. ALL FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT.
2. REFER TO SHT. G-130, G-131 AND G-132 FOR BRIDGE DETAILS.
3. CONTRACTOR TO PROVIDE CHAIN LINK FENCE BARRICADE AT BOTH ENDS OF WATER MAIN BRIDGE TO PREVENT PEDESTRIAN ACCESS ACROSS.

RFI 262
ALL PIPE JOINTS WITHIN THE LIMIT OF WORK SPECIFIED UNDER THE WATER MAIN BRIDGE CROSSING SHOWN ON G-118 SHALL BE RESTRAINED. REFER TO FORTHCOMING FIELD ORDER #52.

RFI 281
THE USE OF 90 DEGREE BENDS ON THE NORTH SIDE OF THE PIPE IS GENERALLY ACCEPTABLE. PLEASE SUBMIT A SKETCH SHOWING THE AS-BUILT LOCATION OF THE WATERMAIN BRIDGE PIER AND PROPOSED SIDEWALK FOR REVIEW BY THE CITY WATER DEPARTMENT.

RFI 336
THE ALUMINUM JACKET SUBSTITUTION AS PROPOSED IS ACCEPTABLE. THE BANDS SHOULD BE SPACED AT THE MANUFACTURER'S RECOMMENDED SPACING.

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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Drawn by RWS
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

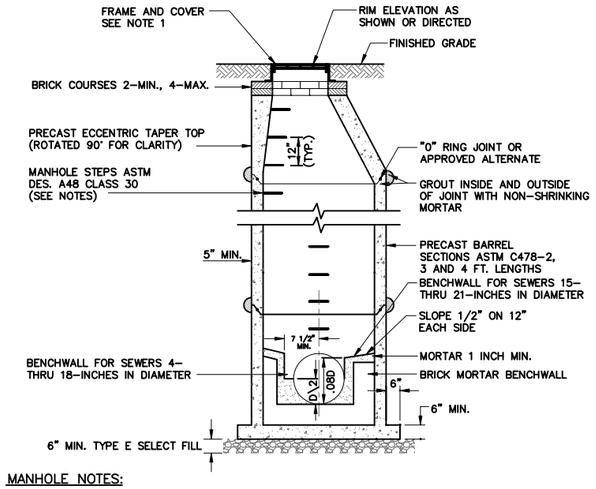
MISCELLANEOUS SITE WORK DETAILS

GENERAL

STATE OF NEW YORK · GERALD C. HOOK · LICENSED PROFESSIONAL ENGINEER · No. 57504

File Number 00663
Date 04/11

G-118



MANHOLE NOTES:

1. FRAME AND COVERS:

SANITARY MANHOLES: SHALL BE SYRACUSE CASTINGS SALES CORP. PATTERN 1016A OR APPROVED EQUAL. LETTERING ON COVER TO READ "SANITARY SEWER"

CONVEYANCE MANHOLES: SHALL BE SYRACUSE CASTINGS SALES CORP. PATTERN 1108D OR APPROVED EQUAL. LETTERING ON COVER TO READ "SANITARY SEWER"

TUNNEL MIDPOINT MANHOLES: SHALL BE SYRACUSE CASTINGS SALES CORP. PATTERN 1016A OR APPROVED EQUAL. LETTERING ON COVER TO READ "SANITARY SEWER"

2. STEPS SHALL BE FURNISHED FOR ALL MANHOLES IN ACCORDANCE WITH THE SPECIFICATIONS.

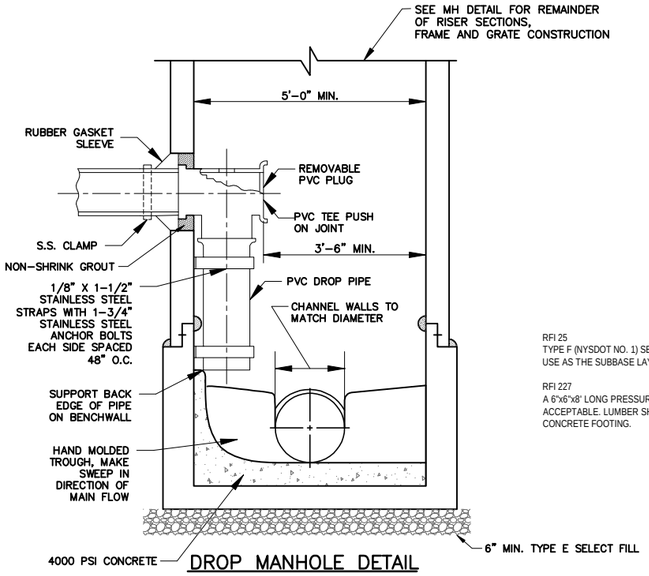
3. CONTRACTOR SHALL CONSTRUCT, AT NO EXTRA COST, MANHOLES WITH FLAT SLAB COVERS OF APPROVED DESIGN, WHERE THE MANHOLE DEPTH IS INSUFFICIENT TO PERMIT INSTALLATION OF A TAPER TOP OR WHERE OTHERWISE SHOWN.

4. SEE SPECIFICATION SECTION 02514 FOR WATER PROOFING TREATMENT FOR EXTERIOR SURFACES OF BELOW GRADE PRECAST MANHOLES.

5. MANHOLES SHALL BE 4 – FOOT DIAMETER UNLESS INDICATED OTHERWISE. 2

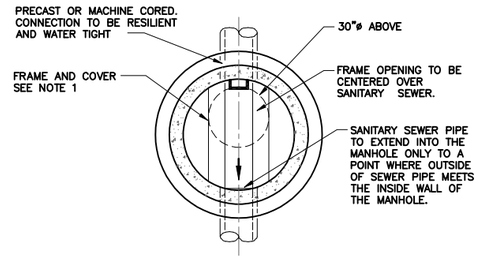
PRECAST MANHOLE DETAIL

NOT TO SCALE



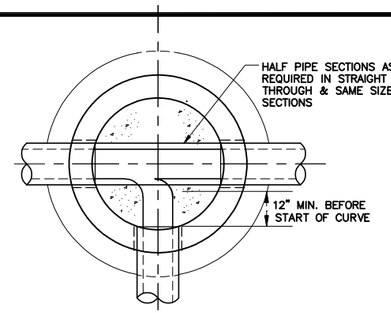
DROP MANHOLE DETAIL

NOT TO SCALE



TYPICAL PRECAST MANHOLE PLAN

NOT TO SCALE

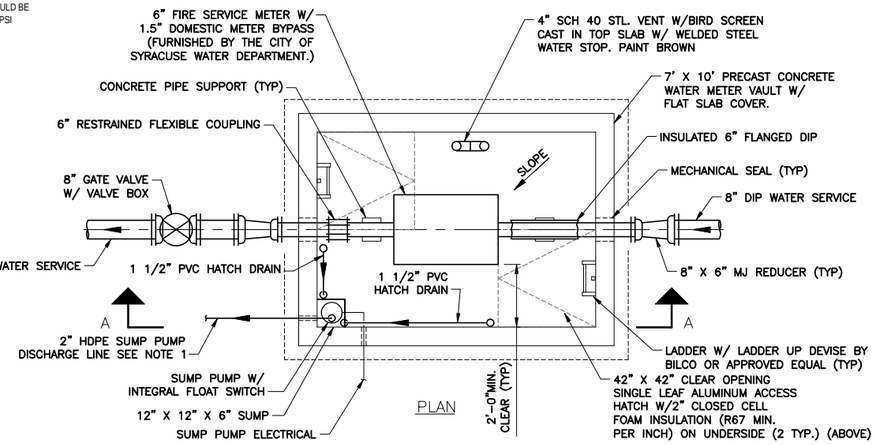


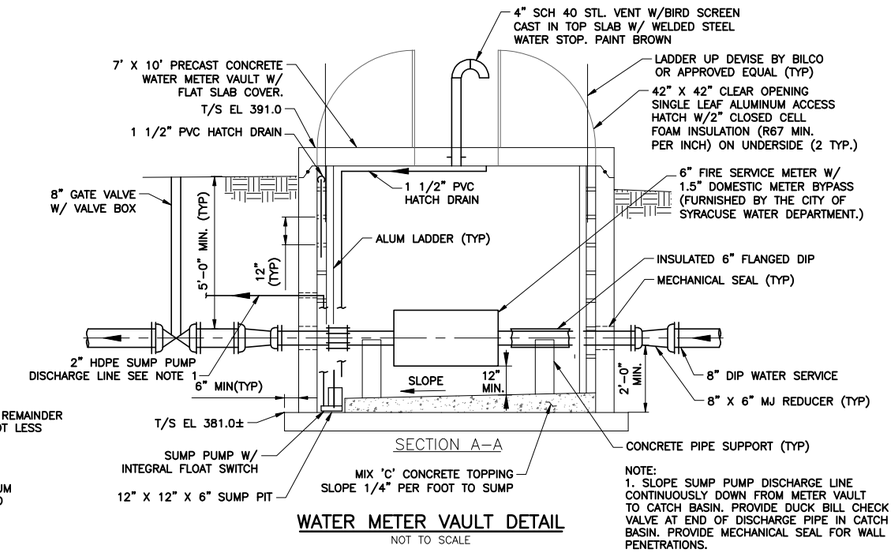
TYPICAL BENCHWALL DETAIL

NOT TO SCALE

RFI 25
TYPE F (NYSDOT NO. 1) SELECT FILL IS ACCEPTABLE FOR USE AS THE SUBBASE LAYER UNDER PRECAST MANHOLES.

RFI 227
A 6"x6"x8' LONG PRESSURE TREATED LUMBER WOULD BE ACCEPTABLE. LUMBER SHALL BE PLACED IN 3000 PSI CONCRETE FOOTING.

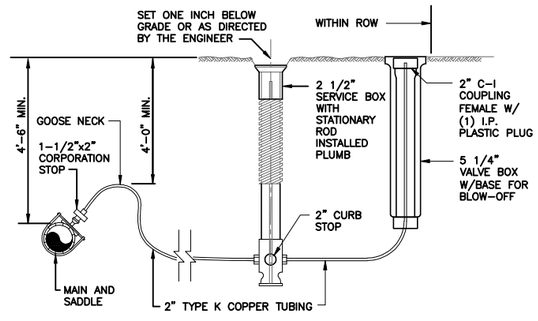




WATER METER VAULT DETAIL

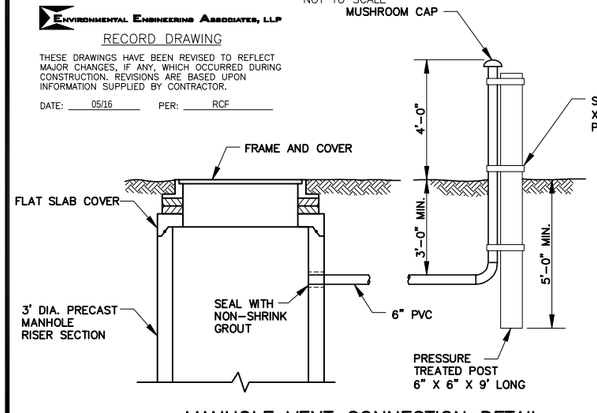
NOT TO SCALE

NOTE:
1. SLOPE SUMP PUMP DISCHARGE LINE CONTINUOUSLY DOWN FROM METER VAULT TO CATCH BASIN. PROVIDE DUCK BILL CHECK VALVE AT END OF DISCHARGE PIPE IN CATCH BASIN. PROVIDE MECHANICAL SEAL FOR WALL PENETRATIONS.



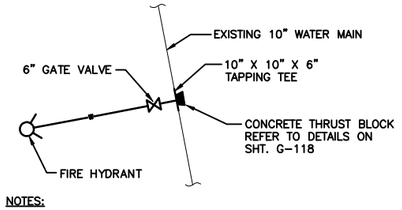
2" PERMANENT BLOW–OFF DETAIL

NOT TO SCALE



MANHOLE VENT CONNECTION DETAIL TYPICAL FOR MANHOLES AT TUNNEL MIDPOINT

NOT TO SCALE



NOTES:

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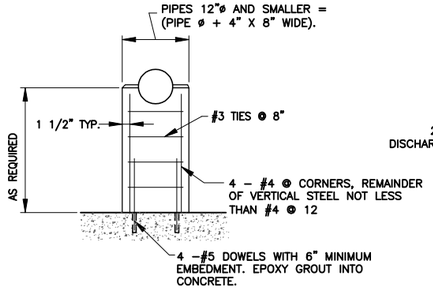
2. ALL FITTINGS TO BE FULLY RESTRAINED MECHANICAL JOINT, MEGALUG OR APPROVED EQUAL.
3. REFER TO SPECIAL PROJECT CONDITIONS FOR WORK ON CITY WATER MAINS.

WATER MAIN CONNECTION DETAIL – NO. 3

NOT TO SCALE



CONCRETE PIPE SUPPORT DETAIL

NOT TO SCALE

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE: NONE

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

In charge of RCF
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Drawn by RWS
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

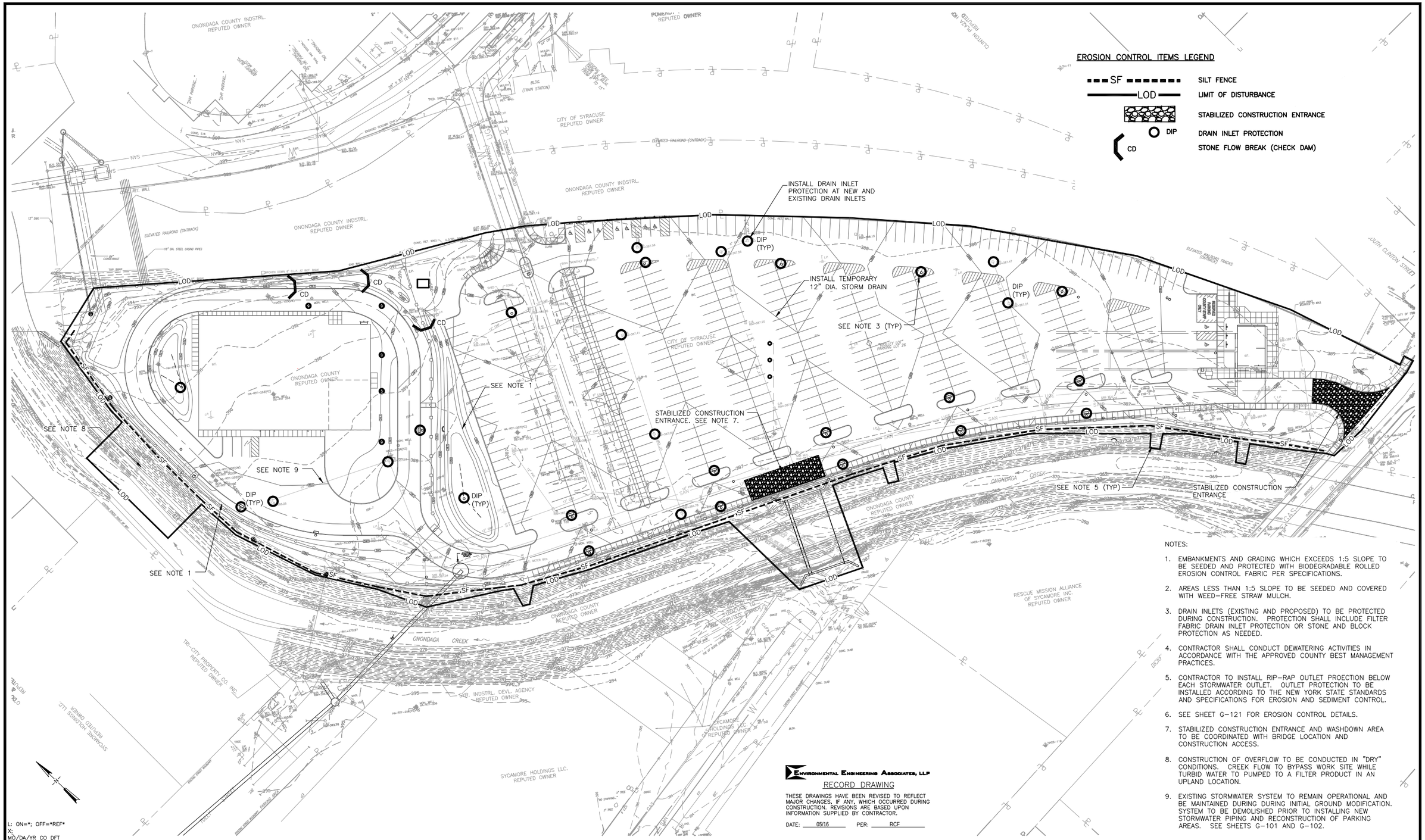
MISCELLANEOUS SITE WORK DETAILS

GENERAL

STATE OF NEW YORK · GERALD C. ROOF · No. 52904 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G–119



NOTES:

1. EMBANKMENTS AND GRADING WHICH EXCEEDS 1:5 SLOPE TO BE SEEDED AND PROTECTED WITH BIODEGRADABLE ROLLED EROSION CONTROL FABRIC PER SPECIFICATIONS.
2. AREAS LESS THAN 1:5 SLOPE TO BE SEEDED AND COVERED WITH WEED–FREE STRAW MULCH.
3. DRAIN INLETS (EXISTING AND PROPOSED) TO BE PROTECTED DURING CONSTRUCTION. PROTECTION SHALL INCLUDE FILTER FABRIC DRAIN INLET PROTECTION OR STONE AND BLOCK PROTECTION AS NEEDED.
4. CONTRACTOR SHALL CONDUCT DEWATERING ACTIVITIES IN ACCORDANCE WITH THE APPROVED COUNTY BEST MANAGEMENT PRACTICES.
5. CONTRACTOR TO INSTALL RIP–RAP OUTLET PROECTION BELOW EACH STORMWATER OUTLET. OUTLET PROTECTION TO BE INSTALLED ACCORDING TO THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
6. SEE SHEET G–121 FOR EROSION CONTROL DETAILS.
7. STABILIZED CONSTRUCTION ENTRANCE AND WASHDOWN AREA TO BE COORDINATED WITH BRIDGE LOCATION AND CONSTRUCTION ACCESS.
8. CONSTRUCTION OF OVERFLOW TO BE CONDUCTED IN "DRY" CONDITIONS. CREEK FLOW TO BYPASS WORK SITE WHILE TURBID WATER TO PUMPED TO A FILTER PRODUCT IN AN UPLAND LOCATION.
9. EXISTING STORMWATER SYSTEM TO REMAIN OPERATIONAL AND BE MAINTAINED DURING DURING INITIAL GROUND MODIFICATION. SYSTEM TO BE DEMOLISHED PRIOR TO INSTALLING NEW STORMWATER PIPING AND RECONSTRUCTION OF PARKING AREAS. SEE SHEETS G–101 AND G–102.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
1"=40'-0" (40 0 40 80)

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

In charge of RCF
Designed by GSL
Drawn by GSL
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

EROSION CONTROL PLAN

GENERAL

STATE OF NEW YORK · GERALD C. ROOF · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G–120

EROSION CONTROL NOTES:

1. CONTRACTOR TO OBTAIN AND REFERENCE THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENTATION CONTROL, LATEST EDITION" AS HE CONDUCTS EROSION CONTROL OPERATIONS. ALL SITE EROSION CONTROLS SHALL FOLLOW THE STATE STANDARDS AND THE NOTES AND DETAILS ON THIS DRAWING SHEET.

2. CONTRACTOR RESPONSIBLE FOR COMPLYING WITH SECTION 4 OF THE NEW YORK STATE SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES (GP-0-10-011) AND SHALL HAVE A TRAINED CONTRACTOR PRESENT ON THE SITE DAILY.

3. CONSTRUCTION ACTIVITIES AT THE SITE WILL INVOLVE SITE PREPARATION NECESSARY FOR CONSTRUCTION OF VARIOUS FACILITIES, INSTALLATION OF UNDERGROUND UTILITIES, CONSTRUCTION OF VEHICULAR ACCESSWAYS, AND CONSTRUCTION OF THE PROPOSED STORMWATER MANAGEMENT SYSTEMS. THESE ACTIVITIES PRIMARILY INCLUDE EXCAVATION, HAULING AND STOCKPILING OF TOP AND SUBSOILS; ROUGH GRADING; SURFACING OF DRIVEWAYS; AND TRENCHING, BEDDING, AND BACKFILL ASSOCIATED WITH FOUNDATION AND UNDERGROUND UTILITIES.

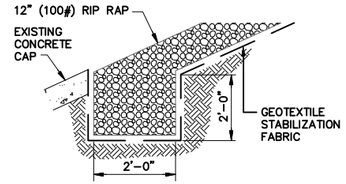
4. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY SOIL DISTURBING ACTIVITIES AND WILL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION IS COMPLETE. LIMITING THE EXPOSED SOILS WILL REDUCE THE AMOUNT OF SEDIMENTS IN RUNOFF WATER AND ULTIMATELY PRESERVE THE QUALITY OF SURFACE WATERS.

5. TEMPORARY AND PERMANENT STABILIZATION WILL BE IMPLEMENTED BEFORE CONSTRUCTION BEGINS AND WILL BE CONTINUALLY MODIFIED THROUGHOUT THE PROJECT TO PROVIDE THE BEST METHODS FOR STORMWATER MANAGEMENT AND POLLUTION PREVENTION. A GENERAL CONSTRUCTION SEQUENCE SCHEDULE IS AS FOLLOWS:

PRECONSTRUCTION ACTIVITIES
- IDENTITY ON-SITE AND DOWNSTREAM SURFACE WATER BODIES AND INSTALL CONTROLS TO PROTECT THEM FROM SEDIMENT.
- CONDUCT A PRECONSTRUCTION MEETING WITH OWNER AND ENGINEER AT LEAST ONE WEEK PRIOR TO THE START OF CONSTRUCTION.

DURING CONSTRUCTION ACTIVITIES
- INSTALL PERIMETER SEDIMENT CONTROLS SUCH AS SILT FENCE AS SHOWN ON THE PROJECT PLANS.
- INSTALL CONSTRUCTION FENCE AS NEEDED.
- ESTABLISH CONSTRUCTION STAGING AND SOIL STOCKPILE AREAS ASSOCIATED AS SHOWN ON SITE PLANS.
- INSTALL TEMPORARY CONSTRUCTION ACCESS AND ANTI-TRACKING PAD AS SHOWN ON THE PROJECT PLANS.
- CONTRACTOR RESPONSIBLE FOR MAINTAINING EXISTING STORMWATER SYSTEM IN PARKING AREA DURING INITIAL CONSTRUCTION STAGE. DRAIN INLET PROTECTION TO BE INSTALLED IN ACCORDANCE WITH PROJECT SWPPP TO PREVENT SEDIMENTATION DURING CONSTRUCTION.
- DEWATER WORK SITE IN ACCORDANCE WITH APPROVED COUNTY BEST MANAGEMENT PRACTICES.
- INSTALL UNDERGROUND UTILITY WORK, INCLUDING STORMWATER DRAINS AND OTHER YARD PIPING. AS WELL AS PERMANENT OUTLET STRUCTURE IN STORMWATER WETLAND.
- SURFACE GRADE BUILDING CONSTRUCTION. THIS INCLUDES INTERIOR/EXTERIOR BUILDING, INSTRUMENTS, AND OTHER PROCESS-RELATED ITEMS.
- SITE RESTORATION AND FINAL GRADING.
- FLUSH AND CLEAN ALL STORM DRAIN SYSTEMS TO REMOVE SEDIMENT.
- TOPSOIL AND SEED DISTURBED AREAS EXCEPT FOR STORMWATER MANAGEMENT AREAS.
- FINAL CLEANING AND STABILIZATION OF BIORETENTION BASINS AND SWALE. THIS WORK INCLUDES REMOVING SEDIMENT BUILDUP FROM BASINS, SEDIMENT FOREBAYS AND CATCH BASINS. AFTER CLEANING, ALL AREAS SHALL BE INSPECTED FOR VEGETATIVE GROWTH AND REPLANTED AS NEEDED.
- OUTFALL CONSTRUCTION ALONG CREEK TO BE CONSTRUCTED IN A MANNER WHICH AVOIDS AND MINIMIZES WATER SEDIMENTATION IN DOWNSTREAM WATERS.
- INSTALL LANDSCAPING AND ESTABLISH VEGETATIVE GROWTH FOR DISTURBED AREAS AND INSTALL BANK RESTORATION MEASURES IN ACCORDANCE WITH SPECIFICATIONS AND LANDSCAPING PLANS.

POST-CONSTRUCTION ACTIVITIES
- CONDUCT A POST-CONSTRUCTION INSPECTION WITH OWNER AND ENGINEER.
- REPAIR ITEMS IDENTIFIED IN THE POST-CONSTRUCTION INSPECTION.
- REMOVE PERIMETER SILT FENCE AND OTHER TEMPORARY SEDIMENT CONTROLS.



KEY-IN SECTION (AT CONCRETE CAP)
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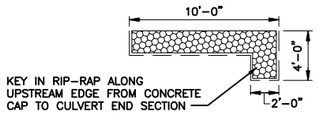

RIP-RAP KEY-IN DETAIL (LONGITUDINAL)
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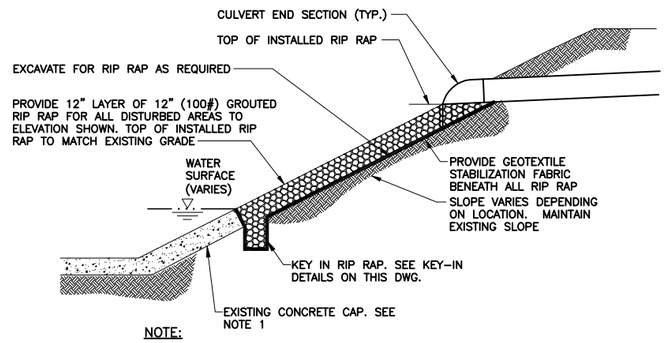
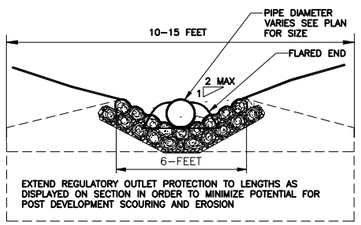


NOTE:

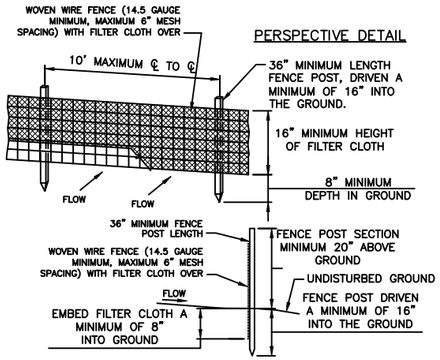
1. REMOVE EXISTING CONCRETE CAP AS NECESSARY TO INSTALL RIP-RAP. REPLACE WITH NEW CONCRETE TO MATCH EXISTING CONCRETE. MATCH EXISTING SLOPES.

TYPICAL RIP-RAP OUTLET PROTECTION DETAIL
NOT TO SCALE



END VIEW

RIP RAP OUTLET PROTECTION
NOT TO SCALE



PERSPECTIVE DETAIL

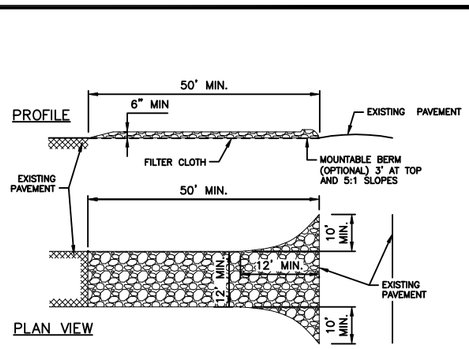
CROSS SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. POST: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD
6. FENCE: WOVEN WIRE, 14.5 GAUGE 6" MAXIMUM MESH OPENING FILTER
7. CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL
8. PREFABRICATED UNIT: GEOFAB. ENVIROFENCE, OR APPROVED EQUAL.

SILT FENCE
NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL

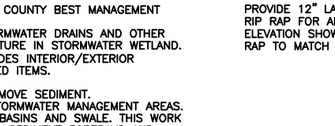


CONSTRUCTION SPECIFICATIONS:

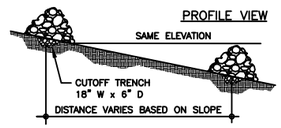
STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
1. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY)
2. THICKNESS - NOT LESS THAN SIX (6) INCHES.
3. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS, TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
4. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
5. 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.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
7. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH ALSO DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL



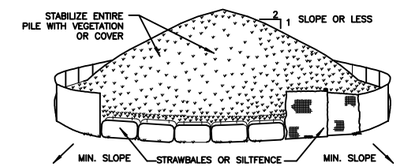
SECTION VIEW



NOTE: FLOW BREAK MOUND SHALL BE BUILT WITH 2"-4"-8" SIZE MIXED CRUSHED STONE

STONE FLOW BREAK
NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL

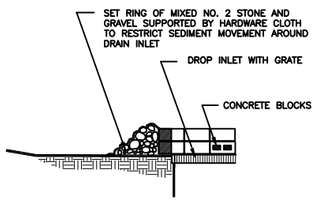


INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

SOIL STOCKPILE DETAIL
NOT TO SCALE

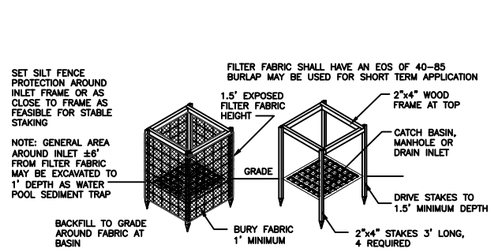
REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL



NOTES:
1. HARDWARE CLOTH OR 1/4" INCH WIRE MESH SHALL BE PLACED OVER GRATE AND BLOCKS TO SUPPORT STONE.

STONE AND BLOCK INLET PROTECTION
NOT TO SCALE

REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL



FILTER FABRIC INLET PROTECTION DETAIL
NOT TO SCALE

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ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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In charge of RCF
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Drawn by GSL
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

EROSION CONTROL DETAILS AND NOTES

GENERAL

STATE OF NEW YORK · GERALD C. HOPE · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G-121

RFI 57
THE FIRE HYDRANT MUST BE LOCATED WITHIN A EXISTING WATER MAIN EASEMENT THAT HAS BEEN DEDICATED TO THE CITY OF SYRACUSE. ALSO THE HYDRANT LATERAL SHOULD COME FORM THE CITY'S WATER MAIN AND NOT FROM THE SERVICE LINE TO THE WEST CHAMBER. THE BIKE RACK LOCATION CAN BE SHIFTED AS NEEDED.

FO 28
REFER TO CONTRACT DRAWING G-133: REMOVE CB-17, HEADWALL HDW-8 AND APPROXIMATELY 100 FT OF 12 INCH PVC STORM SEWER BETWEEN THESE STRUCTURES. PROVIDE A GRADED SWALE AND CULVERT TO DIRECT RUNOFF TO THE BIORETENTION BASIN AS SHOWN IN THE ATTACHED FIGUREI. THE CULVERT SHALL BE 12 INCH DIAMETER CORRUGATED HDPE CONSTRUCTION AND USED UNDER THE FENCE CROSSING. THE 1-1/2 INCH SUMP PUMP DISCHARGE FOR THE WATER METER VAULT PREVIOUSLY DISCHARGED TO CB-17 SHALL BE DISCHARGE TO DAYLIGHT IN THE SWALE. PROVIDE TYPE 2 (NYSDOT TYPE 2) CRUSHED STONE AROUND THE SUMP PUMP DISCHARGE OUTLET.

REVISE THE PIPE BETWEEM CRS-2 AND DMH-11 FROM A 12 INCH PVC TO A 15 INCH PVC PIPE. REVISE THE PIPE BETWEEN DMH-11 AND HDW-5 FROM A 12 INCH PVC TO A 16 INCH DUCTILE IRON PIPE AND LOWER THE PIPE INVERT ELEVATIONS AS SHOWN IN FIGURE 1. REVISE HEADWALL HDW-5 AND ELASTOMERIC CHECK VALVE ACCORDINGLY.

FO 29
CLARIFICATION TO THE CROSSING OF THE 8" WATER MAIN AND THE 16" DEWATER FORCE MAIN, CONTRACT DRAWING G-122. THE WATER MAIN SHOULD PASS UNDER THE DEWATERING FORCE MAIN TO PROVIDE ADEQUATE BURY DEPTH ON THE WATER MAIN. IN REFERENCE TO THE "TYPICAL WATER & SEWER CROSSING" DETAIL ON CONTRACT DRAWING G-118. THE MINIMUM DISTANCE BETWEEN PIPES MAY BE REDUCED TO 12 INCHES. A PIPE LENGTH OF WATER MAIN SHALL BE CENTERED AT THE CROSSING WITH THE FORCE MAIN.

THE CITY WATER DEPT. HAS REQUESTED THAT THERE IS NO WELDED JOINT IN THE HDPE FORCE MAIN WITHIN 5 FT OF THE CROSSING WITH THE WATER MAIN.

WEST JEFFERSON STREET
SOUTH CLINTON STREET
ELEVATED RAILROAD
WEST CHAMBER
EAST CHAMBER
OVERFLOW CHANNEL
DICKERSON STREET
FABIUS STREET
ONONDAGA CREEK
CONNECT TO EXISTING 8" WATER (SEE CONNECTION DETAIL NO 1 SH G-118)
APPROXIMATE LOCATION OF NEW 2" GAS MAIN (BY NATIONAL GRID)
HYDRANT ASSEMBLY COMPLETE
WATER METER VAULT
1 1/2"-SPD-HDPE
4"-S-PVC SEE PROFILE SHEET G-123
8"-W-DIP
8" TEE
84" HDPE SEE SHEETS G-126 & G-127
2" GAS
16" DIP FORCE MAIN SEE SHEET G-124
6"-PVC-S SEE PROFILE SHEET G-123
6"-S-PVC SEE PROFILE SHEET G-123
36" FRP SEE SHEET G-126
8"X6" TEE
6" PVC VENT
6" PVC VENT W/MUSHROOM CAP SEE DETAIL DWG G-119
TUNNELS
TEMPORARY CONSTRUCTION BRIDGE, REFER TO DWG G-131
APPROXIMATE LOCATION OF ABANDONED 20" BRINE LINE
12" SAN SEWER SEE SHEET G-126
SHEETING (TYP)
EX. MH
CONNECT TO EX 6" WATER (SEE CONNECTION DETAIL NO 2 ON SH G-118)
APPROXIMATE LOCATION OF NEW 2" GAS MAIN OFF EXISTING GAS MAIN (BY NATIONAL GRID)
CONNECT TO EX WATER W/ TAPPING SLEEVE AND VALVE FOR NEW HYDRANT ASSEMBLY SEE DETAIL SHEET G-119
N 1,109,547.83
E 935,066.60
16" HDPE FORCE MAIN SEE SHEET G-124
CONNECT TO EXISTING MH
REPLACE EXISTING CB
96" CONVEYANCE SEE SHEET G-125
MH-1 MH-2 MH-3 MH-4 MH-5 MH-6 MH-7 MH-8 MH-9 MH-10 MH-11
CB-1 CB-2 CB-3 CB-4 CB-5 CB-6 CB-7 CB-8 CB-9 CB-10 CB-11 CB-12 CB-13 CB-14 CB-15 CB-16 CB-18 CB-19 CB-20
DMH-1 DMH-2 DMH-3 DMH-4 DMH-5 DMH-6 DMH-7 (HDS-1) DMH-8 DMH-9 (HDS-2) DMH-10 DMH-11
CRS-1 CRS-2
HDW-1 HDW-2 HDW-5 HDW-7
TS-2

YARD PIPING PLAN
SCALE: 1'-0" = 40'

NOTE:
1. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ELEVATIONS OF PIPES AT BUILDINGS.
2. SEE SH G-133 FOR STORMWATER SYSTEM RIM AND INVERT ELEVATIONS.
⚠ 3. MH'S 9, 10 AND 11 ARE FOR TUNNEL EGRESS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
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SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

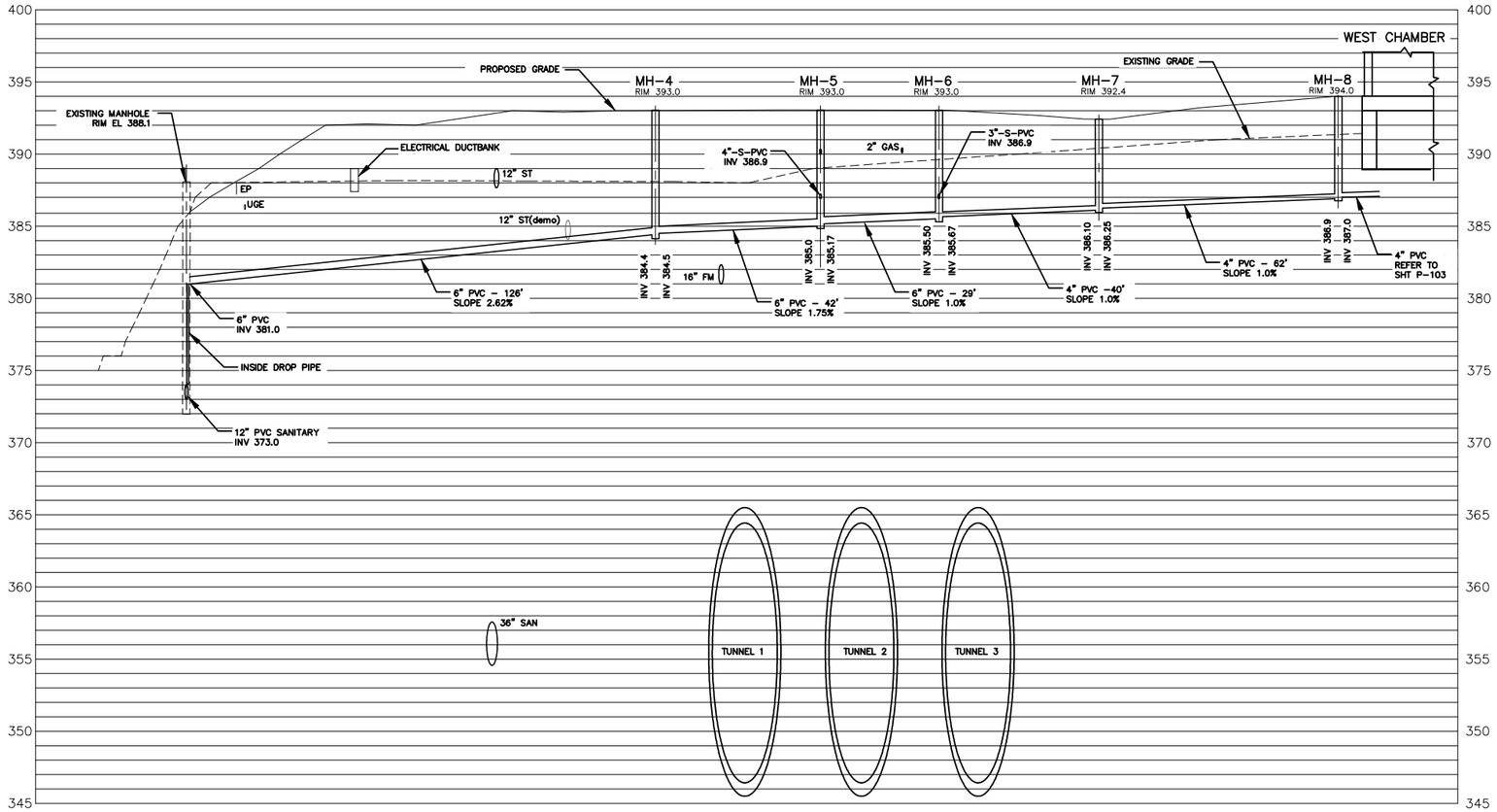
YARD PIPING PLAN

GENERAL

STATE OF NEW YORK · GERALD C. HOOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

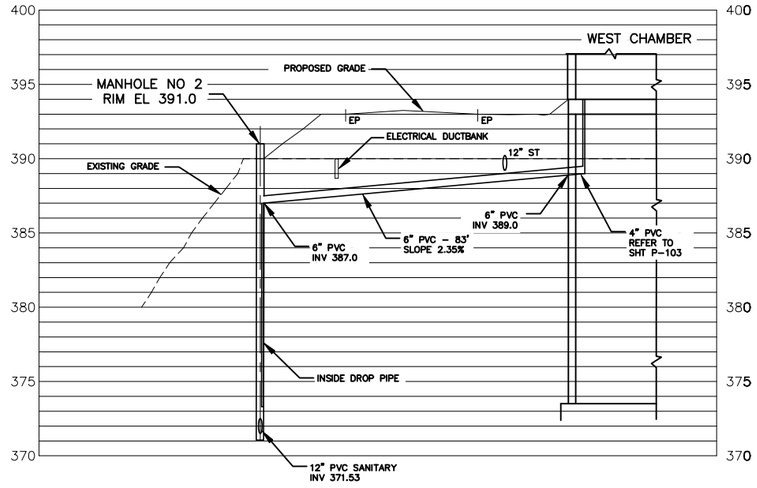
File Number 00663
Date 04/11

G-122



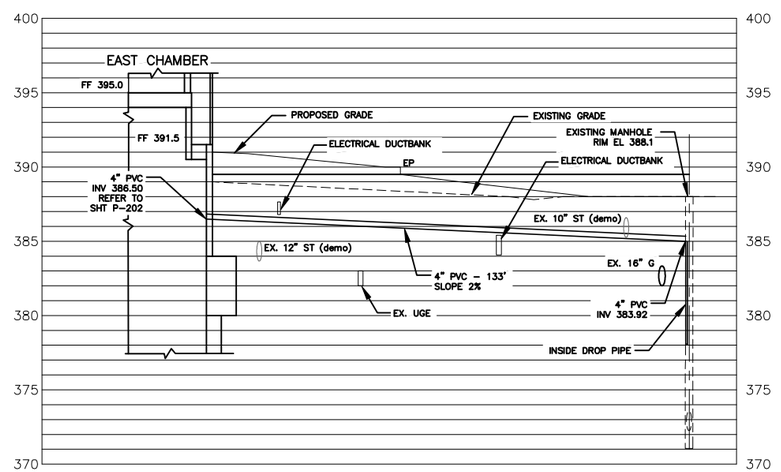
SANITARY SEWER PROFILE
(ODOR CONTROL ROOM TO EX SANITARY MANHOLE)

SCALE: 1" = 20' HOR
1" = 5' VERT



SANITARY SEWER PROFILE
(BATHROOM TO SANITARY MANHOLE NO 2)

SCALE: 1" = 20' HOR
1" = 5' VERT



SANITARY SEWER PROFILE
(EAST CHAMBER TO EXISTING SANITARY MANHOLE 7A)

SCALE: 1" = 20' HOR
1" = 5' VERT

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RECORD DRAWING

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
1"=5'-0" 5 0 5 10
1"=40'-0" 40 0 40 80

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CLINTON CSO STORAGE FACILITY PROJECT

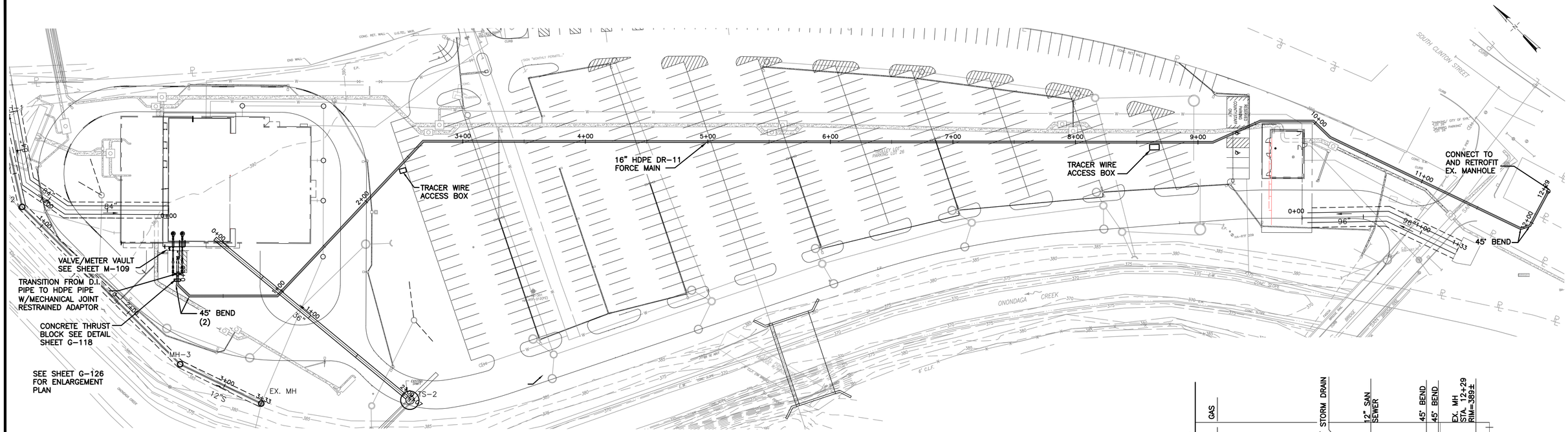
YARD PIPING PROFILES

GENERAL

STATE OF NEW YORK · GERALD C. ROOK · No. 57004 · LICENSED PROFESSIONAL ENGINEER

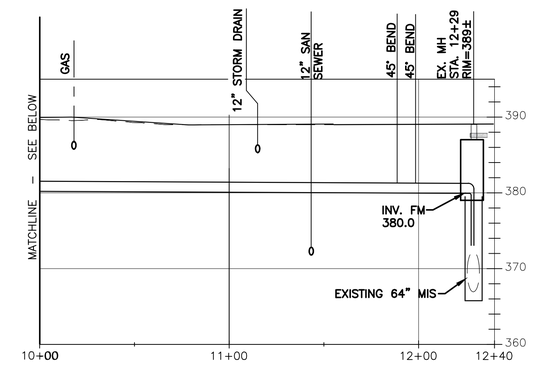
File Number 00663
Date 04/11

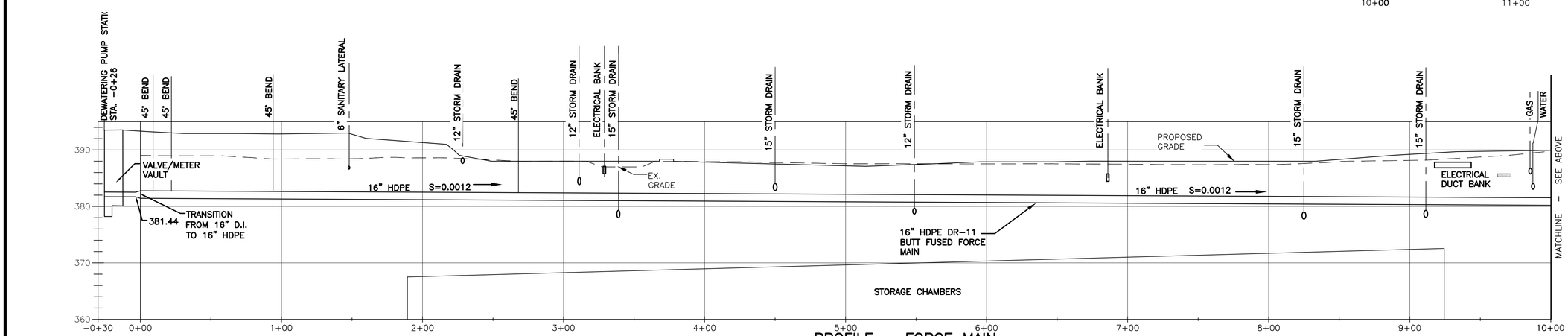
G-123



PLAN

SCALE: 1"=40'





PROFILE – FORCE MAIN

SCALE: (HORIZ.) 1"=40'
(VERT.) 1"=10'

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
1"=40' 40 0 40 80
1"=10' 10 0 10 20

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No.	Date	Revisions	Init
5	04/15	RECORD DRAWINGS	
4	02/13	REVISED FOR NEW CONNECTION TO MIS	
3	02/12	REVISED FOR CHANGE ORDER NO. 1	RCG
2	04/11	AS BID	RCG
1	01/11	ISSUED FOR APPROVAL	RCG

In charge of RCG
Designed by CCF
Drawn by SLJ
Checked by MER

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

FORCE MAIN PLAN & PROFILE

GENERAL

STATE OF NEW YORK ROBERT C. GARDNER 57613 LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G-124

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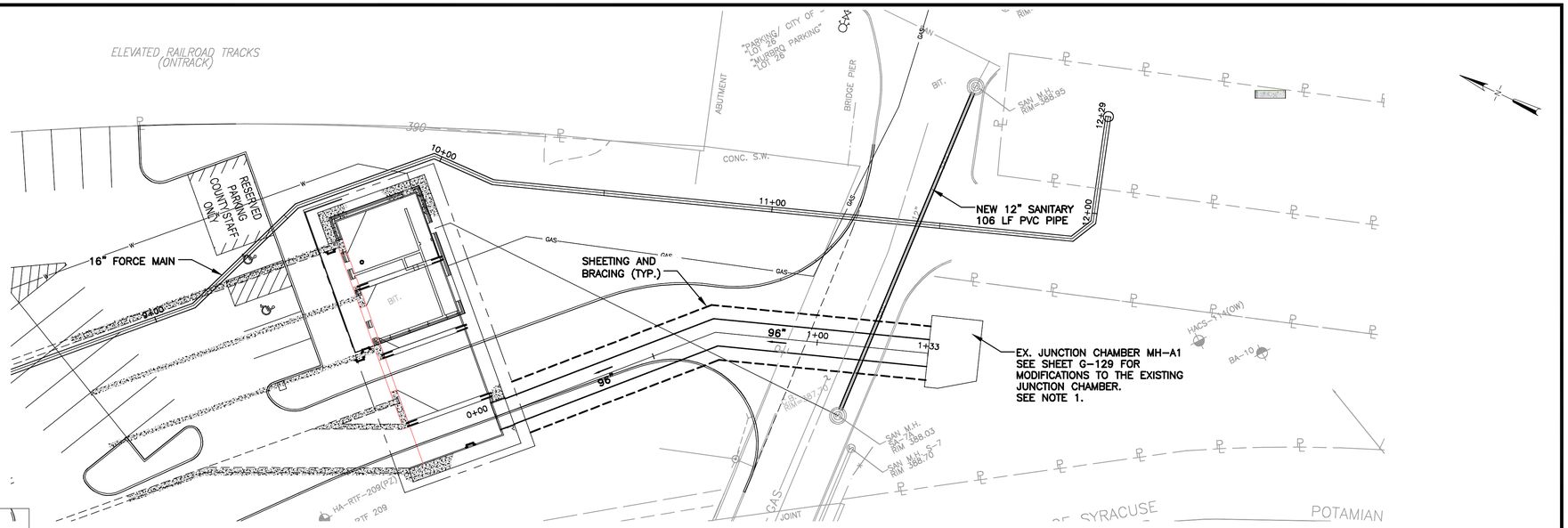
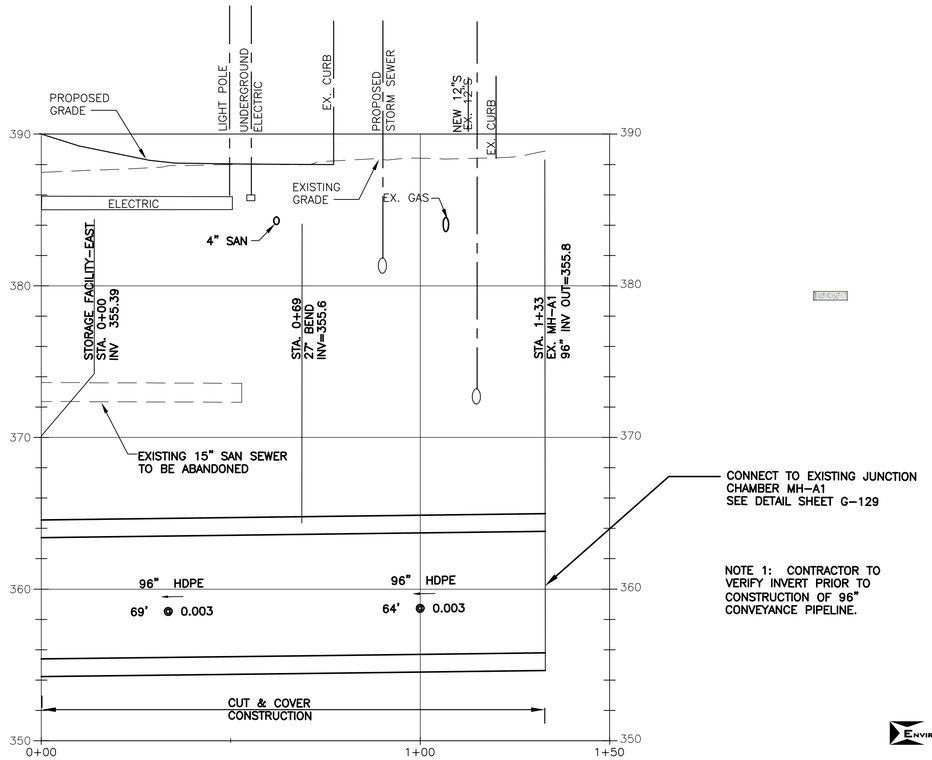


PLAN

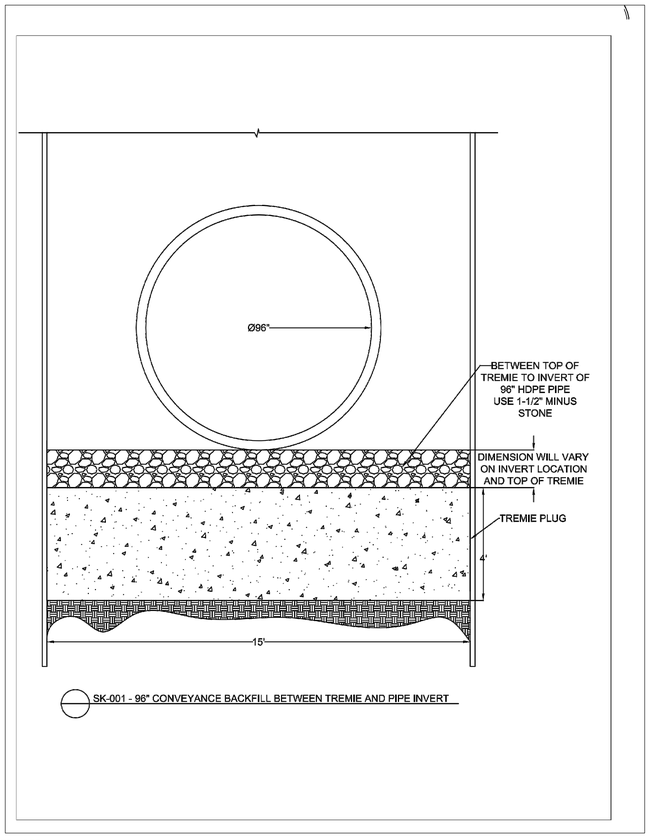
SCALE: 1"=20'



WEST ONONDAGA STREET CONVEYANCE SEWER

96" CONVEYANCE PROFILE

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



SK-001 - 96" CONVEYANCE BACKFILL BETWEEN TREMIE AND PIPE INVERT

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DIR/DWG

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

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1	01/11	ISSUED FOR APPROVAL	RCG

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Drawn by SLJ
Checked by MER

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CLINTON CSO STORAGE FACILITY PROJECT

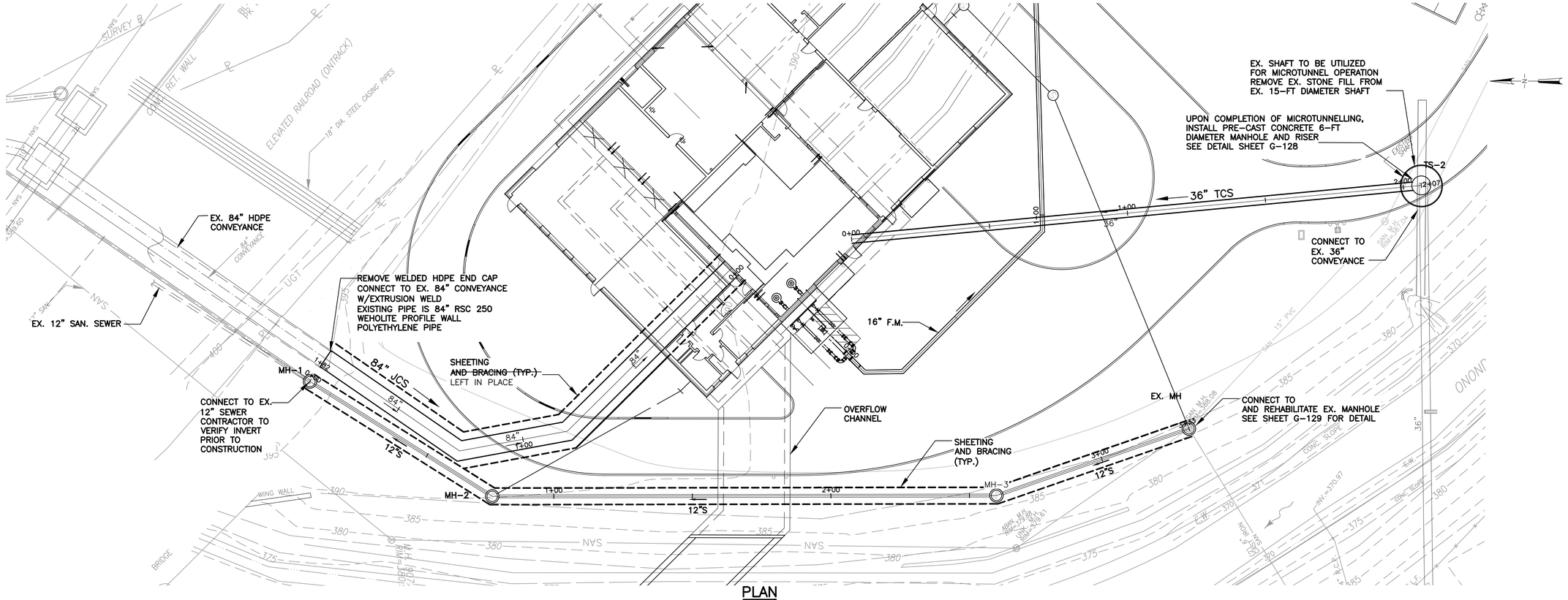
96" CONVEYANCE PLAN AND PROFILE

GENERAL

STATE OF NEW YORK ROBERT C. GANLEY 57013 LICENSED PROFESSIONAL ENGINEER

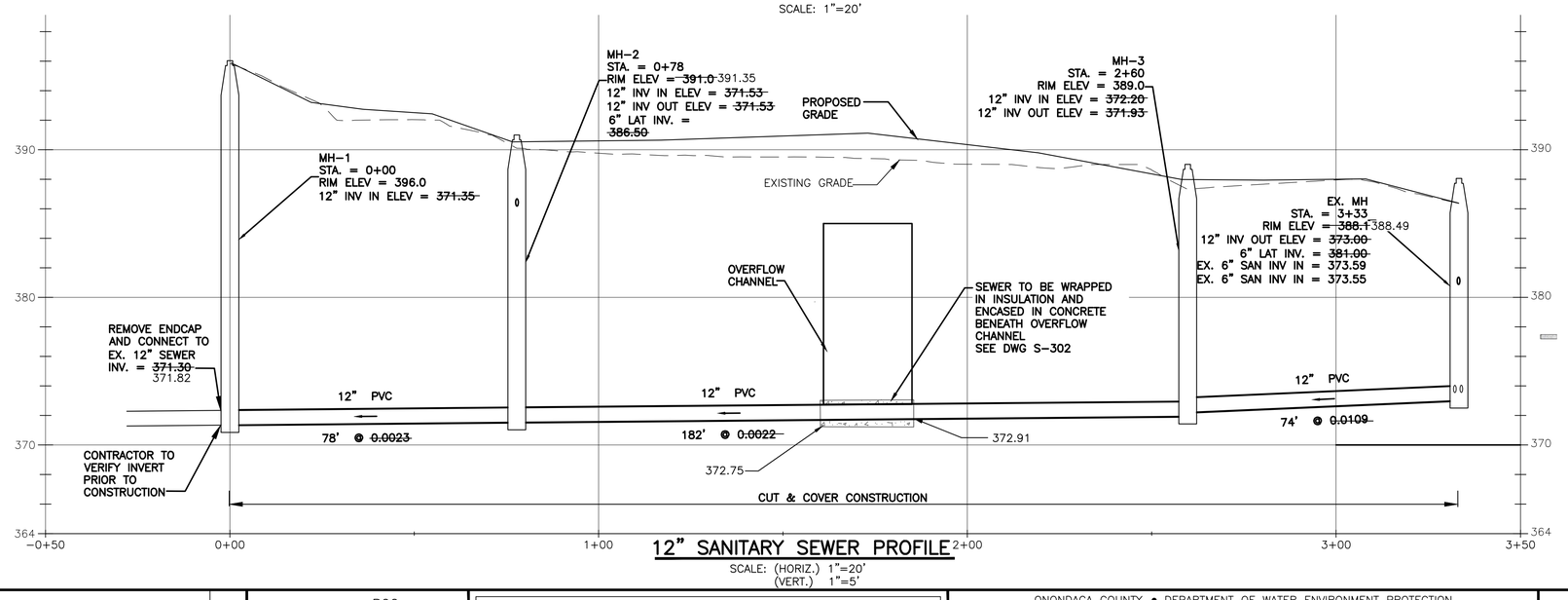
File Number 00663
Date 04/11

G-125



PLAN

SCALE: 1"=20'



12" SANITARY SEWER PROFILE

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

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

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

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1	01/11	ISSUED FOR APPROVAL	RCG

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DATE: 04/01/2015 PER:

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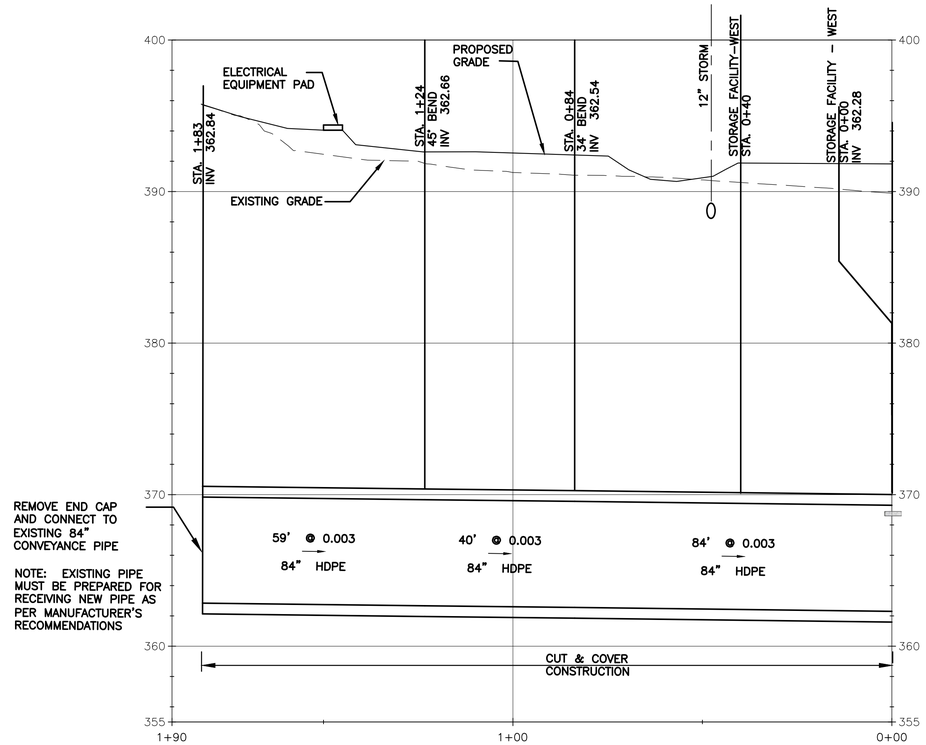
36" & 84" CONVEYANCE PLAN
12" SAN SEWER PLAN & PROFILE

GENERAL

STATE OF NEW YORK ROBERT C. GARDNER 57813 LICENSED PROFESSIONAL ENGINEER

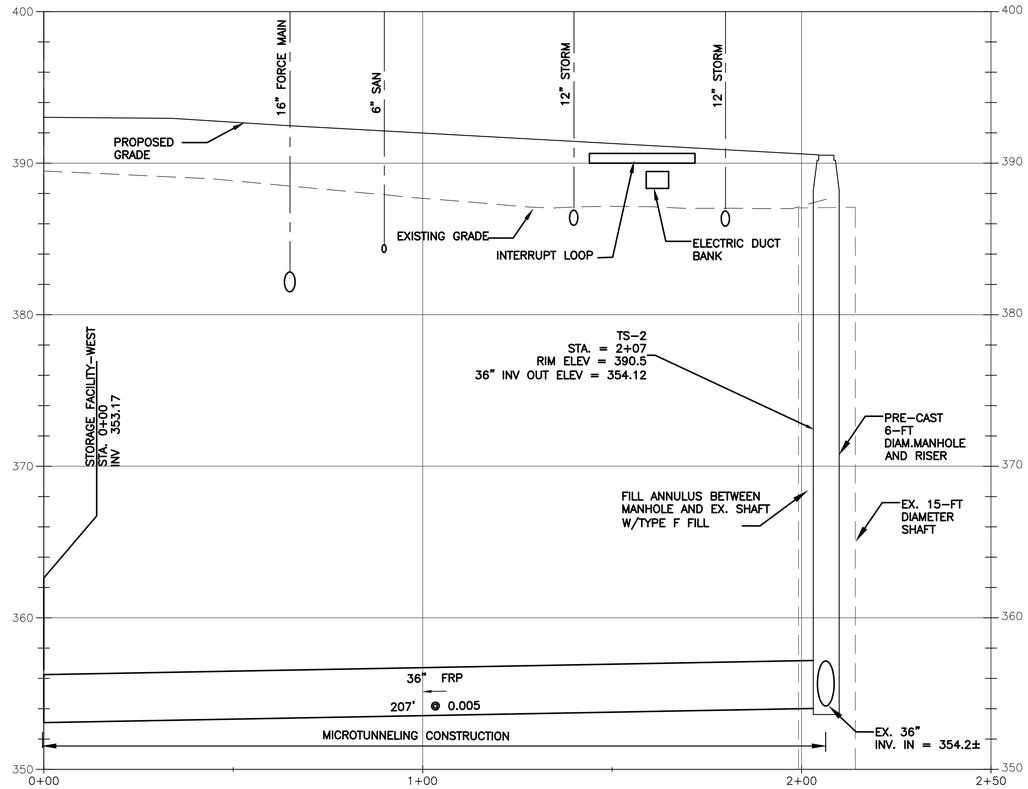
File Number 00663
Date 04/11

G-126



JEFFERSON STREET CONVEYANCE SEWER
84" CONVEYANCE PROFILE

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



TULLY STREET CONVEYANCE SEWER
36" CONVEYANCE PROFILE

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

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DATE: 04/01/2015 PER: _____

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

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

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CLINTON CSO STORAGE FACILITY PROJECT

36" & 84" CONVEYANCE PROFILES

GENERAL

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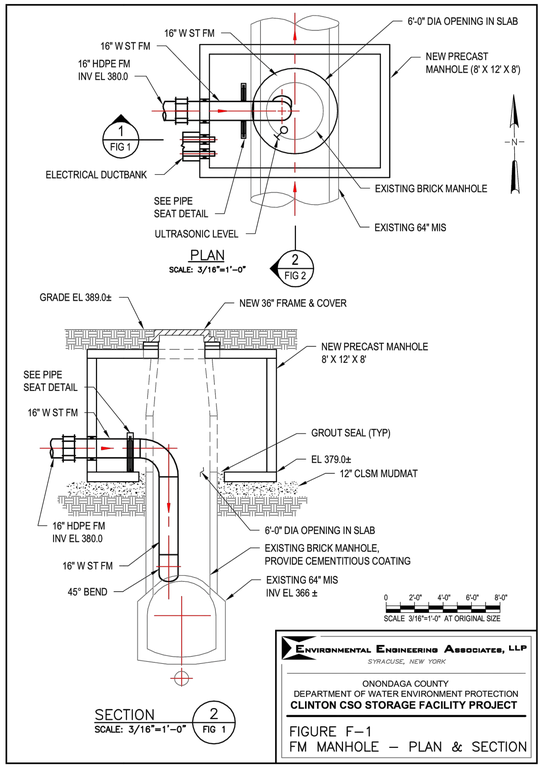
File Number 00663
Date 04/11

G-127



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CLINTON CSO STORAGE FACILITY PROJECT

FIGURE F–1
FM MANHOLE – PLAN & SECTION

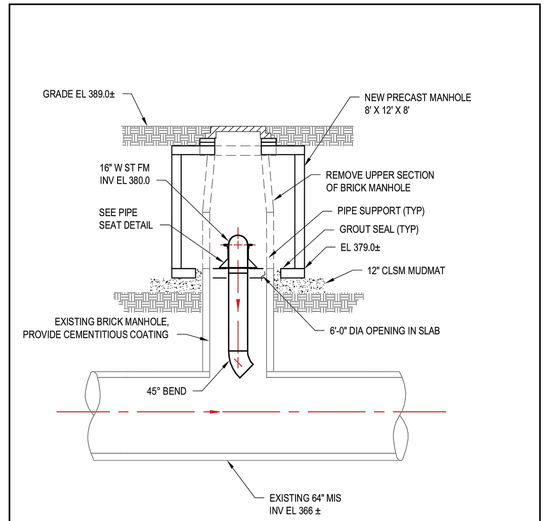

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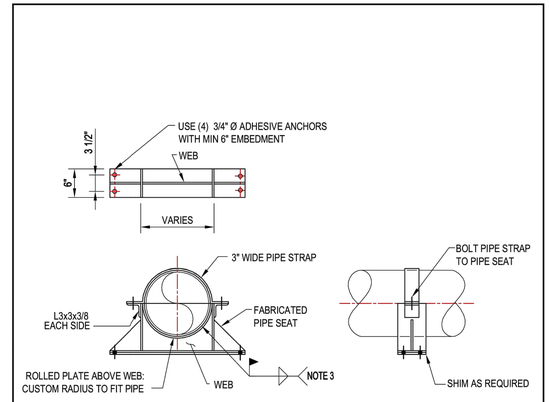
FIGURE F–2
FM MANHOLE – SECTION



NOTES:

1. ALL MATERIAL IS 3/8" HOT DIPPED GALVANIZED.
2. ALL BOLTS ARE 3/4"Ø STAINLESS STEEL.
3. WELD PIPE TO PIPE SEAT.

TYPICAL PIPE SEAT

NOT TO SCALE

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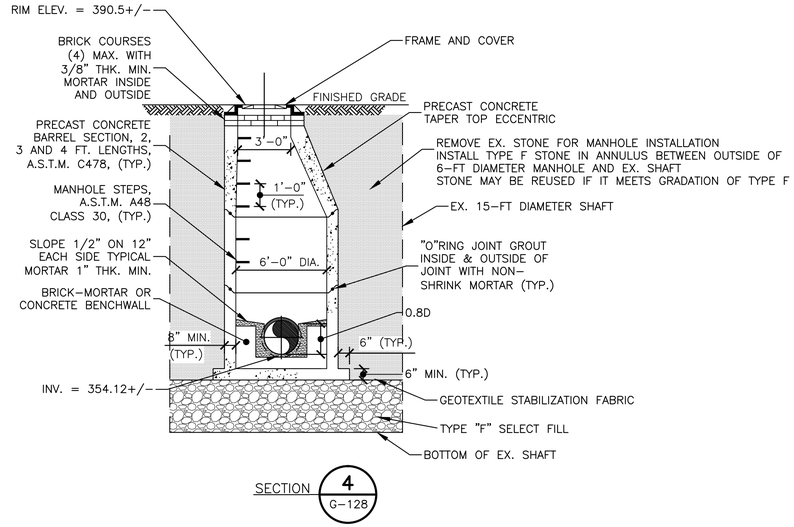
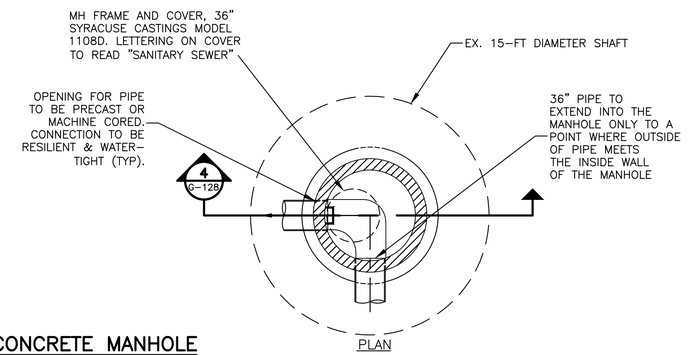
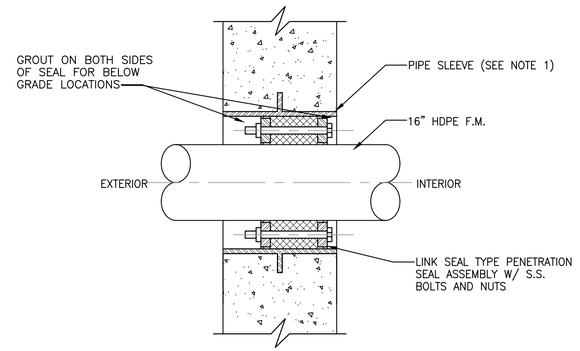
FIGURE F–3
PIPE SEAT DETAIL



NOTES:

1. PIPE SLEEVE SHALL BE CONSTRUCTED OF NON–CONDUCTIVE HIGH IMPACT RESISTANT HDPE (AS MANUFACTURED BY PSI, INC. OR EQUAL) OR SCH 40 STEEL PIPE (COAT AS SPECIFIED). ALL PIPE SLEEVES SHALL BE CONSTRUCTED WITH A CONTINUALLY WELDED WATER STOP.
2. STAINLESS STEEL PIPE STIFFENER TO BE INSTALLED AT CONNECTION W/MANHOLE





LINK SEAL TYPE PENETRATION DETAIL FOR MH–FM CONNECTION

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DATE: 04/01/2015 PER: Collette Bailey

MH TS–2 PRE–CAST CONCRETE MANHOLE

NTS

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CLINTON CSO STORAGE FACILITY PROJECT

CONNECTION TO MIS STRUCTURE AND MISCELLANEOUS DETAILS

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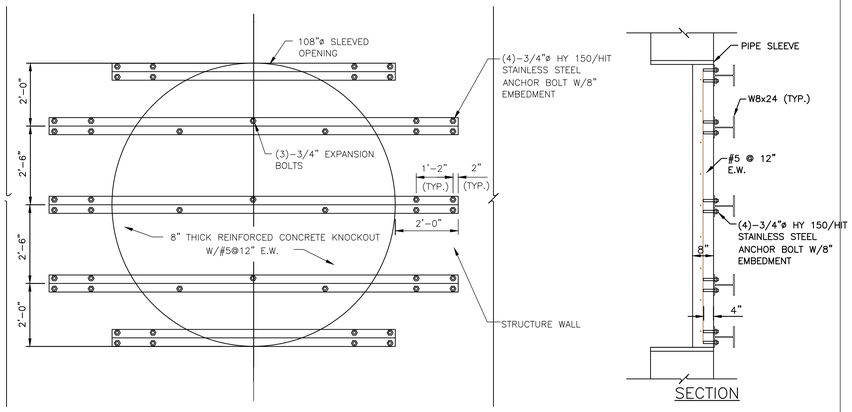
Date 04/11

G–128

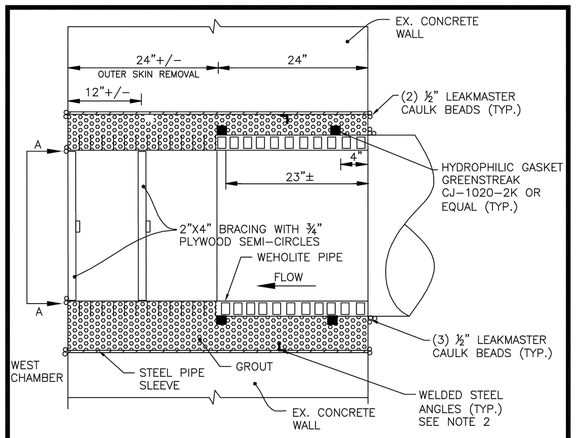


MH-A1 BULKHEAD REMOVAL DETAIL

NOT TO SCALE

CONTRACTOR SHALL:

1. REMOVE EXISTING ¾" STAINLESS STEEL ANCHOR BOLTS.
2. REMOVE AND DISPOSE OF EXISTING W8X24'S.
3. REMOVE AND DISPOSE OF EXISTING REINFORCED CONCRETE KNOCK-OUT.
4. PATCH ALL ANCHOR BOLT HOLES IN STRUCTURAL WALL W/NON-SHRINK GROUT.

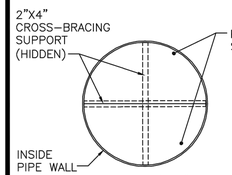


CONNECTION DETAIL FOR 84" PIPE TO WEST CHAMBER

NOT TO SCALE

NOTES:

1. ADDITIONAL CROSS-BRACING SHALL BE PLACED IN THE SINGLE WALLED SECTION OF PIPE PRIOR TO GROUTING AGAINST THE STEEL PIPE SLEEVE.
2. 1"X1"X2" LONG X ¼" THICK STEEL ANGLES SPACED EVERY 90° AROUND INSIDE DIAMETER OF STEEL SLEEVE.
3. PIPE SHALL BE ALLOWED TO RELAX TO AN AMBIENT TEMPERATURE OR 75° F OR LESS PRIOR TO BEING GROUTED INTO STEEL SLEEVE.



SECTION "A-A"

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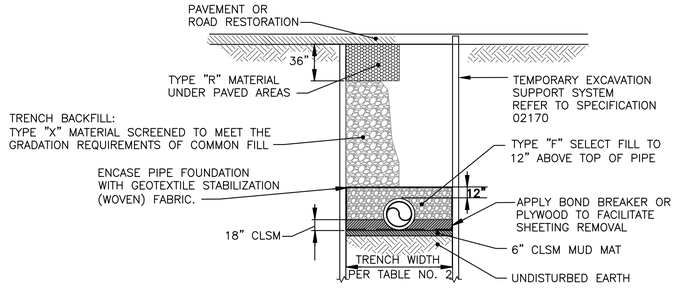
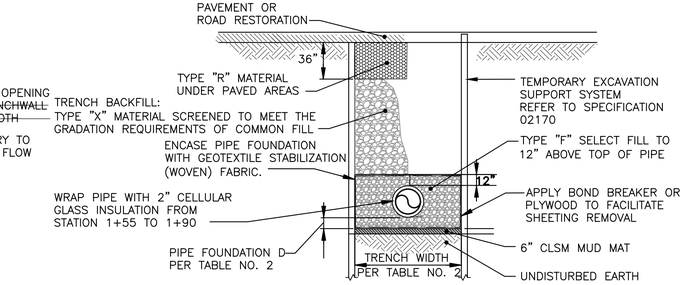
CLINTON CSO STORAGE FACILITY

84" CONNECTION DETAIL — FIGURE 1
16 JULY 2012



PIPE FOUNDATION/TRENCH FOR 84" AND 96" CONVEYANCE PIPES



PIPE FOUNDATION/TRENCH FOR 12" SANITARY SEWER

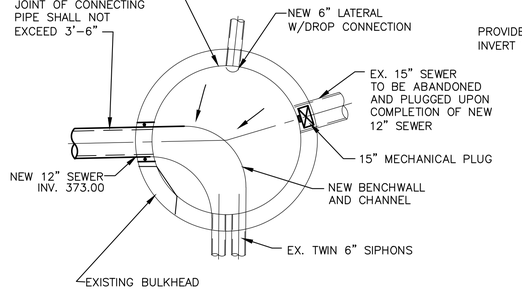
TABLE NO. 2			
TRENCH WIDTH EXCAVATION LIMITS			
PIPE I.D.	WIDTH MAXIMUM	WIDTH MINIMUM	D
12"	O.D. + 5'	O.D. + 4'	4"
84"	24'	17'	N/A
96"	25'	18'	N/A

CLSM = CONTROLLED LOW STRENGTH MATERIAL
OD = OUTSIDE DIAMETER

CONVEYANCE PIPE FOUNDATION/TRENCH DETAILS

NOT TO SCALE

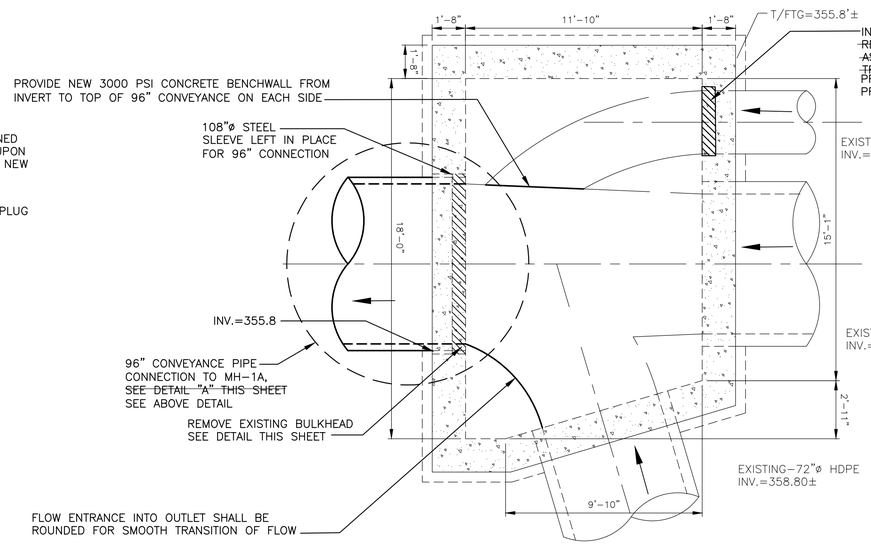
CLEAN MANHOLE INTERIOR W/HIGH PRESSURE WATER. INSTALL ¼" LAYER OF CEMENTITIOUS COATING ON INTERIOR WALLS, PERMACAST MS 10000 OR EQUAL.



CONNECTION TO EXISTING SANITARY MH DETAIL

NOT TO SCALE

NOTE:
CORE DRILL EXISTING MANHOLE AS REQUIRED TO INSTALL NEW PIPES. REVISE BENCHWALL WITH 3000 PSI CONCRETE AS REQUIRED. PROVIDE LINK SEAL TYPE WALL PENETRATION AROUND EXTERIOR OF PIPE TO MAKE WATERTIGHT CONNECTION AND GROUT NEW PIPE IN PLACE AS REQUIRED FOR WATERTIGHT CONNECTION



CONNECTION TO EXISTING MH-A1 DETAIL

NOT TO SCALE

1. GROUT ANNULUS BETWEEN EXISTING STEEL SLEEVE OPENING AND 96"ø CONVEYANCE PIPE FULL WALL DEPTH FOR WATERTIGHT CONNECTION.

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RECORD DRAWING

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DATE: 04/01/2015 PER: _____

COMPACTION REQUIREMENT: ALL BACKFILL MATERIAL SHALL BE PLACED IN 8" LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR.

L: ON=*; OFF=*REF*
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MO/DA/YR CO DFT
DIR/DWG

SCALE: NOT TO SCALE

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1	01/11	ISSUED FOR APPROVAL	RCG

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

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Designed by CCF
Drawn by SLJ
Checked by MER

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SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

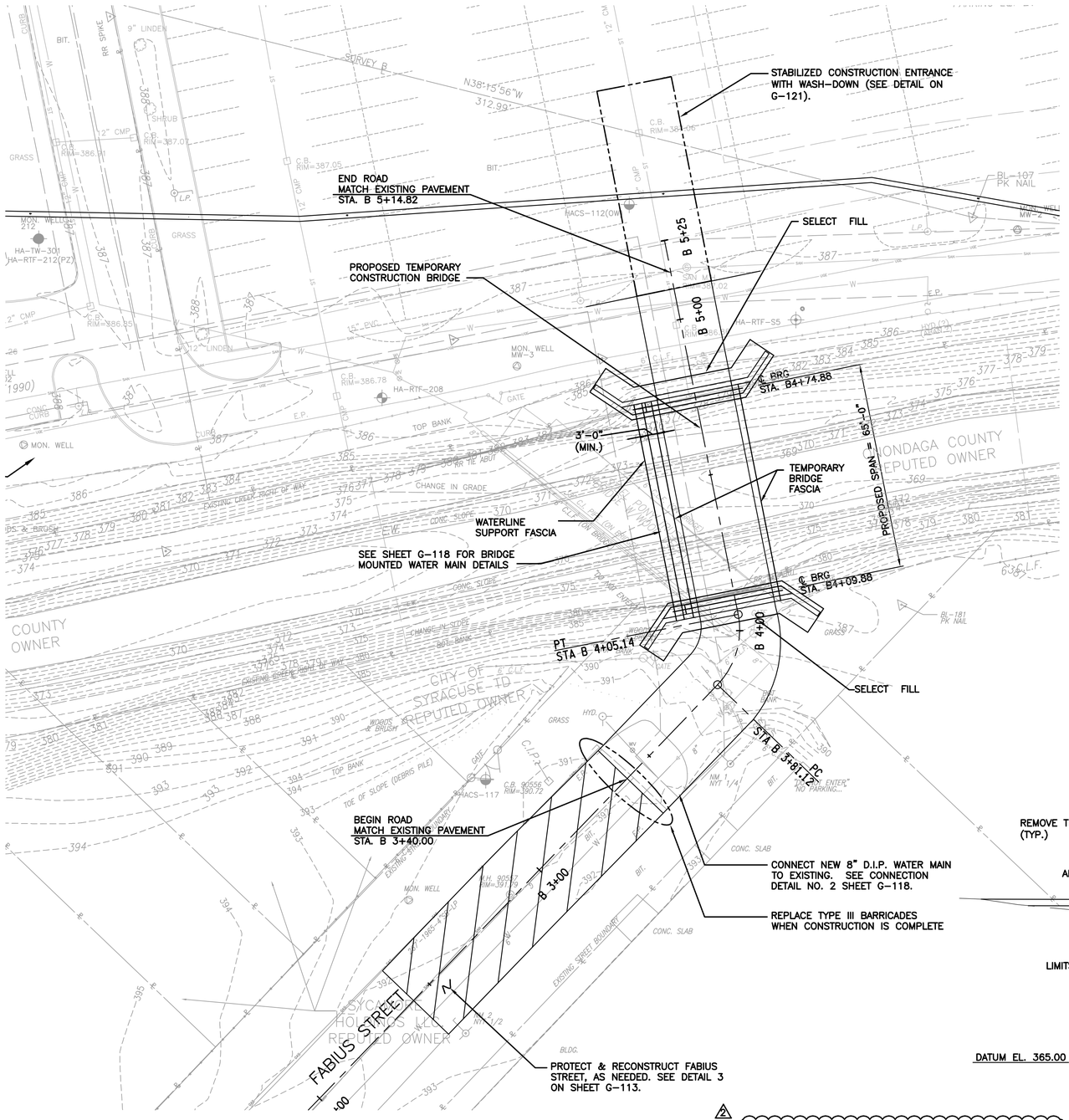
MISCELLANEOUS CONVEYANCE DETAILS

GENERAL

STATE OF NEW YORK — ROBERT E. GALLAGHER — 57613 — LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

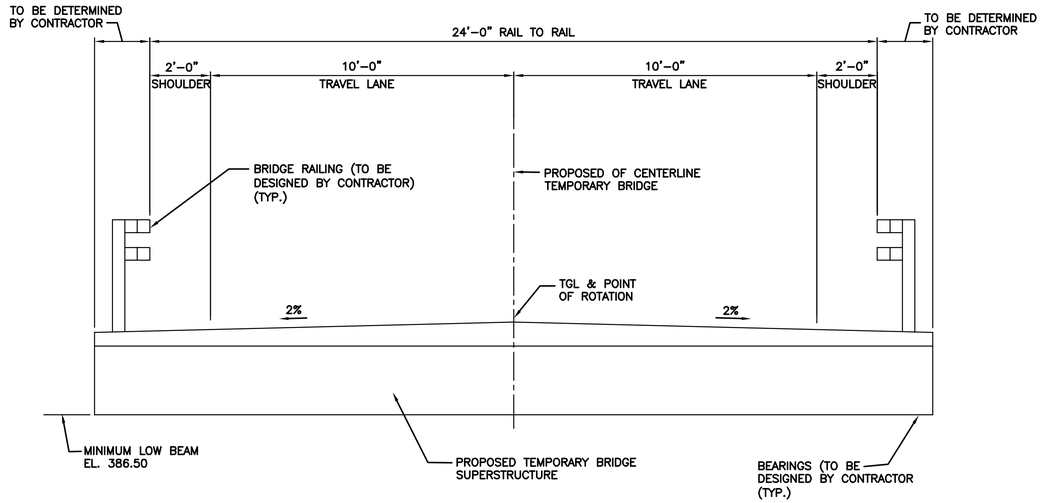
G-129



PROPOSED BRIDGE PLAN

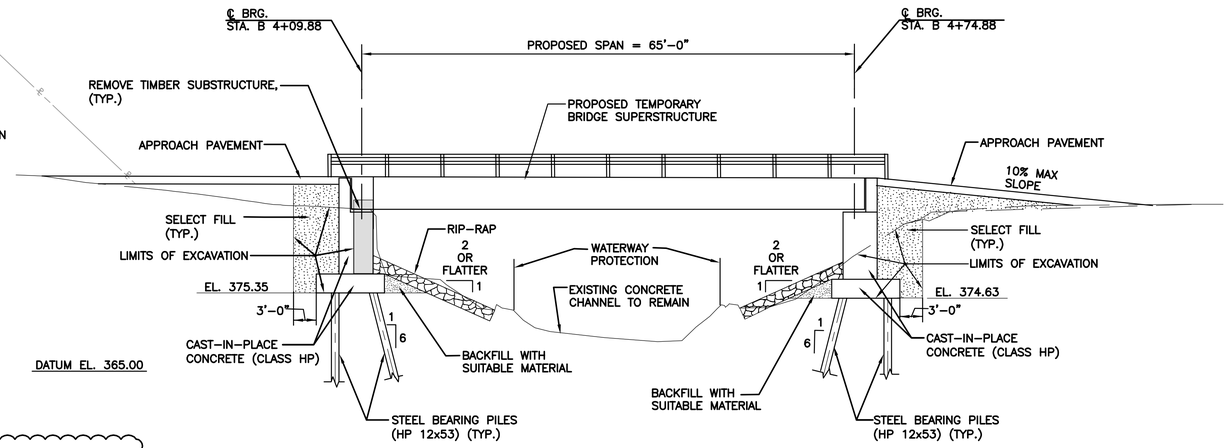
SCALE: 1"=20'-0"

NOTE:
UPON COMPLETION OF THE CLINTON STORAGE FACILITY PROJECT, THE CONTRACTOR SHALL REMOVE THE TEMPORARY BRIDGE SUPERSTRUCTURE AND RAILINGS; LEAVING THE ABUTMENTS AND WATERLINE SUPPORTS IN PLACE.



PROPOSED BRIDGE SECTION

SCALE: 1" = 1'-0"



PROPOSED BRIDGE ELEVATION

SCALE: 1"=10'-0"

2

NOTE 1
WHEN CONSTRUCTION IS COMPLETE, RESTORE AREA BETWEEN SOUTH ABUTMENT AND BARRICADES. REMOVE ASPHALT AND RESEED IN ACCORDANCE WITH SPECIFICATION SECTION 02936.

L: ON=*; OFF=*REF*
X:
8/23/10 B&L GRR
1079003/CST-G-130.DWG

SCALE:
20' 0 20' 40'
1"=20'

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.

No.	Date	Revisions	Init
3	02/12	REVISED PER ADDENDA	KMK
2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK

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

In charge of KMK
Designed by MDP
Drawn by GRR
Checked by LMM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

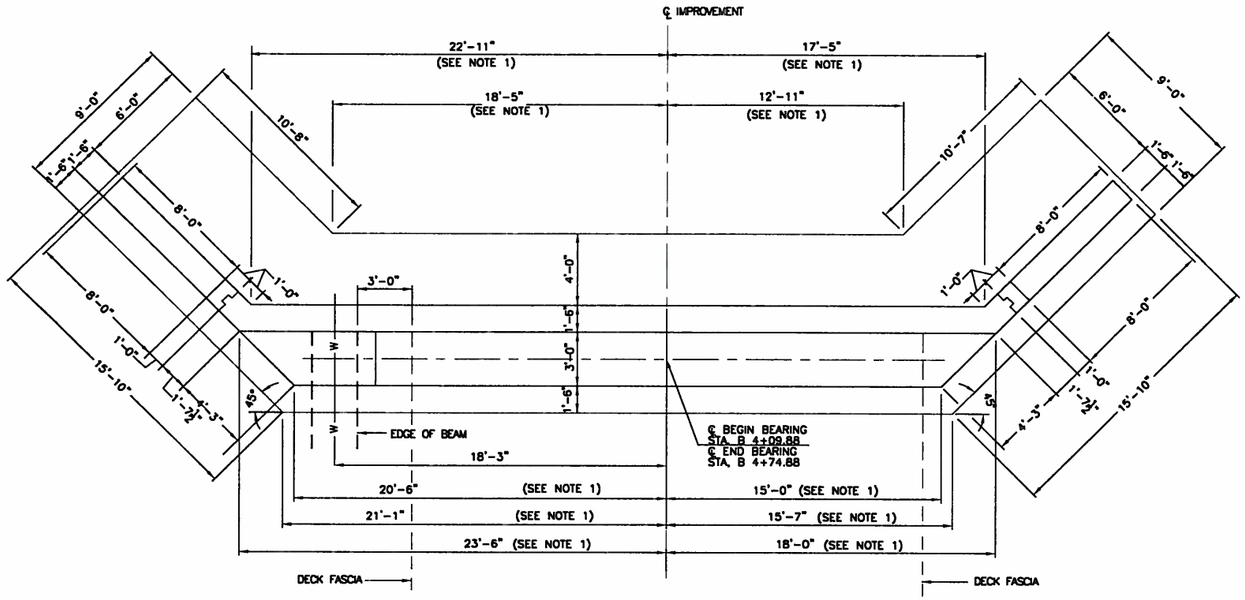
TEMPORARY CONSTRUCTION BRIDGE – PLAN, SECTION & ELEVATION

GENERAL

STATE OF NEW YORK MATTHEW J. SCHOLZ LICENSED PROFESSIONAL ENGINEER NO. 069952

File Number 006.63
Date 04/11

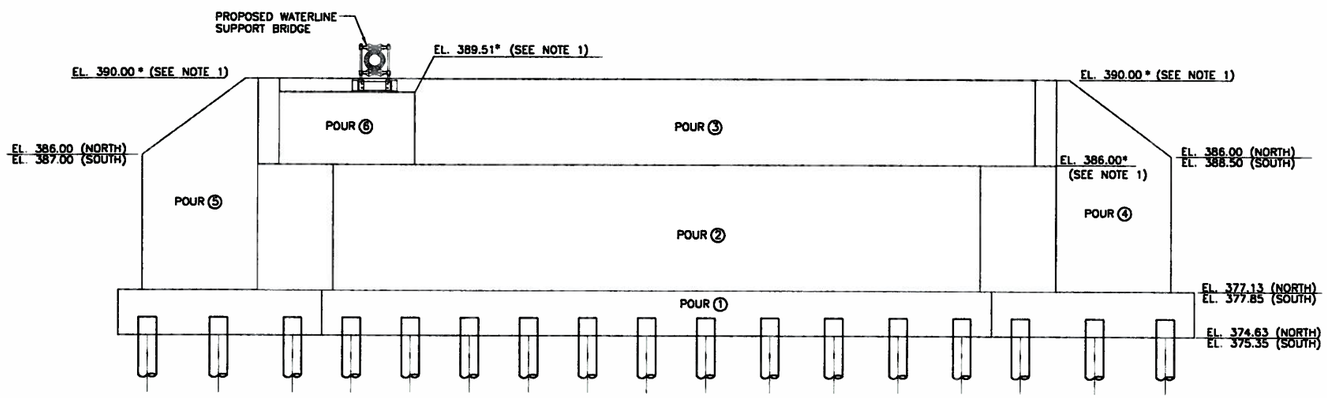
G-130



NOTE:
1. THE DIMENSIONS AND ELEVATIONS INDICATED ARE MINIMUMS AND MAY VARY BASED ON THE DIMENSIONS OF THE PREFABRICATED SUPER STRUCTURE PROVIDED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXTRA WORK BECAUSE OF THESE VARIATIONS.

NORTH AND SOUTH ABUTMENT PLAN

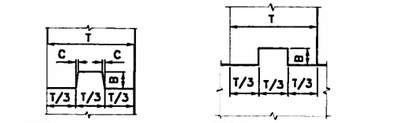
SCALE: 1/4" = 1'-0"

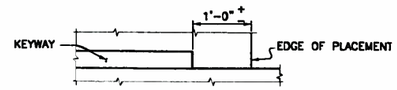


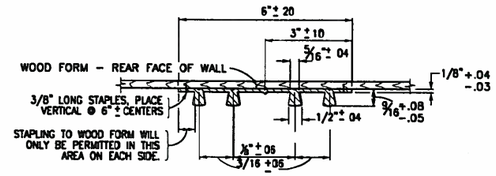
ELEVATION – NORTH AND SOUTH ABUTMENT

SCALE: 1/4" 1'-0"

POUR TABLE	
POUR	NORTH ABUTMENT
①	53.5 CY
②	59.8 CY
③	9.9 CY
④	5.4 CY
⑤	5.4 CY
⑥	2.3 CY
TOTAL	136.3 CY
POUR	SOUTH ABUTMENT
①	53.5
②	54.9 CY
③	9.9 CY
④	5.7 CY
⑤	5.3 CY
⑥	2.3 CY
TOTAL	131.1 CY







CONSTRUCTION AND CONTRACTION JOINTS		
C	B	T/3
¼"	1 1/2"	0 TO 6"
½"	3"	6" TO 10"
¾"	5"	OVER 10"

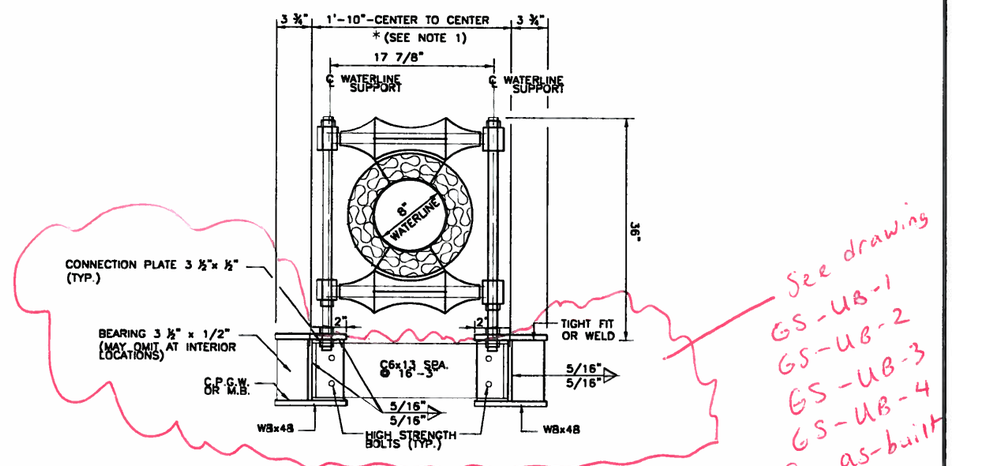
NOTES:

HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.

TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.

TYPE D WATERSTOP

NOT TO SCALE



See drawing GS-UB-1 GS-UB-2 GS-UB-3 GS-UB-4 for as-built

WATERLINE SUPPORT BRIDGE SECTION

NOT TO SCALE

L: ON=*; OFF=*REF*
X
8/24/10 B&L GRR
1079003/CST-G-131.DWG

SCALE: 1"=20' (20' 0 20' 40')

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.

No.	Date	Revisions	Init
2	04/11	AS BID	KMK
1	01/11	ISSUED FOR APPROVAL	KMK

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

In charge of KMK
Designed by MDP
Drawn by GRR
Checked by MJS

Environmental Engineering Associates, LLP Syracuse, New York

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

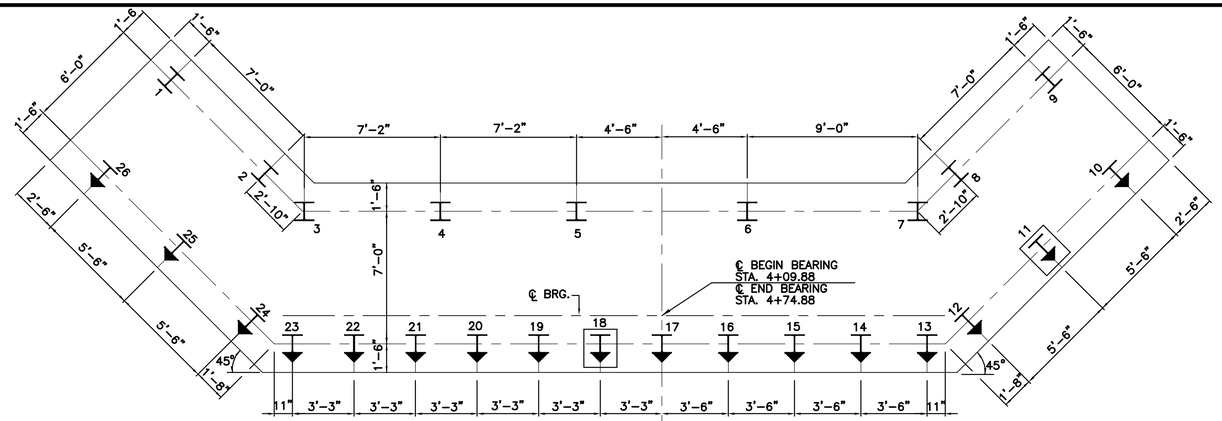
TEMPORARY CONSTRUCTION BRIDGE – NORTH AND SOUTH ABUTMENT PLAN

GENERAL

State of New York – Matthew J. Schaab – No. 069963 – Licensed Professional Engineer

File Number 006.63
Date 04/11

G-131



NORTH AND SOUTH PILE LAYOUT PLAN

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

PILE TABLE—NORTH			
PILE NO.	LENGTH BELOW CUT-OFF	PILE NO.	LENGTH BELOW CUT-OFF
1		14	
2		15	
3		16	
4		17	
5		18	
6		19	
7		20	
8		21	
9		22	
10		23	
11		24	
12		25	
13		26	

PILE TABLE—SOUTH			
PILE NO.	LENGTH BELOW CUT-OFF	PILE NO.	LENGTH BELOW CUT-OFF
1		14	
2		15	
3		16	
4		17	
5		18	
6		19	
7		20	
8		21	
9		22	
10		23	
11		24	
12		25	
13		26	

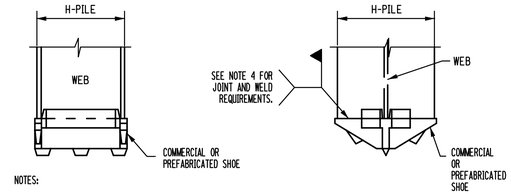
LEGEND

- STEEL BEARING PILES (HP 12x53)
- STEEL BEARING PILES (HP 12x53) (6V:1H BATTER)
- DYNAMIC PILE TEST

FOR DESIGN PURPOSES THE PILE LOAD DOES NOT EXCEED 245,000 lb PER PILE

PILE CUT-OFF ELEVATION IS EL. 375.63 (NORTH)
EL. 376.35 (SOUTH)

THE ESTIMATED LENGTH OF PILE IS 35' (NORTH)
33' (SOUTH)

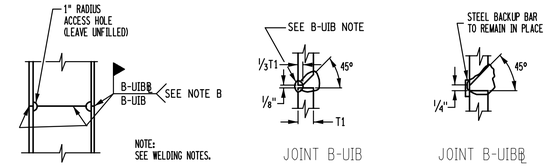


NOTES:

1. COMMERCIAL OR PREFABRICATED SHOES ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.
2. THE SHOE SHALL BE ATTACHED BY A NYSDOT CERTIFIED WELDER.
3. A "WELDING PROCEDURE SPECIFICATION" (WPS) IS REQUIRED.
4. THE SHOE WELD JOINT DESIGN SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION, AND AS SHOWN ON THE APPROVED WPS.
5. IF SHOES ARE WELDED AT A LOCATION OTHER THAN THE PROJECT SITE, ALL OF THE ABOVE PROVISIONS SHALL APPLY TO THE OFFSITE FABRICATOR.
6. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN CONFORMANCE WITH REQUIREMENTS FOR WELDING SPECIFIED IN THE N.Y.S. STEEL CONSTRUCTION MANUAL.

STEEL BEARING PILE SHOES

NOT TO SCALE



NOTE: SEE WELDING NOTES.

JOINT B-UIB JOINT B-UIB℄

SLICE FOR STEEL BEARING PILE

NOT TO SCALE

NOTES:

A "WELDING PROCEDURE SPECIFICATION" (WPS) IS REQUIRED.

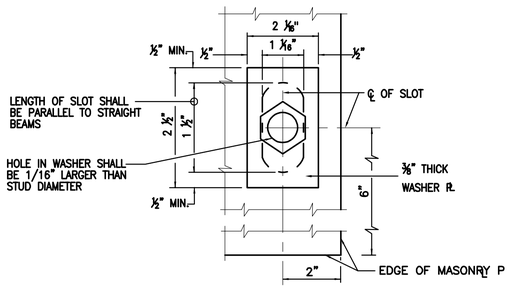
ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN CONFORMANCE WITH REQUIREMENTS FOR WELDING SPECIFIED IN THE N.Y.S. STEEL CONSTRUCTION MANUAL.

B EITHER JOINT MAY BE USED AT CONTRACTOR'S OPTION.

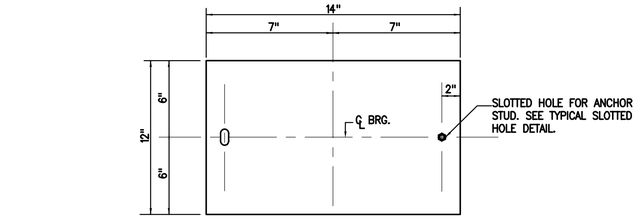
B-UIB: AIR CARBON ARC GOUGE TO SOUND WELD METAL PRIOR TO WELDING THE SECOND SIDE. THE GOUGE SHALL HAVE A 1/4" MINIMUM RADIUS AT THE ROOT WITH THE TOP SLOPED BACK AT 45° MINIMUM.

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

NOTE: ANCHOR BOLT SHALL BE CENETERED IN SLOTTED HOLE @ 68° F.

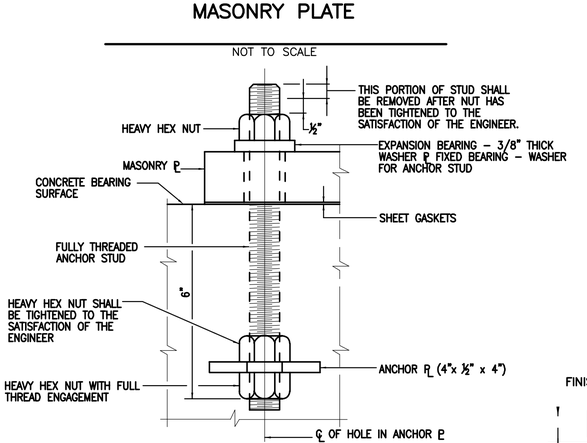


TYPICAL SLOTTED HOLE DETAIL MASONRY PLATE



EXPANSION BEARING MASONARY PLAN

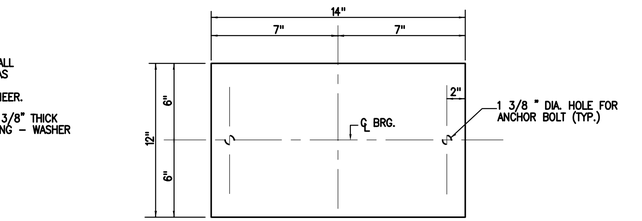
NOT TO SCALE



ANCHOR STUD WITH ANCHOR PLATE

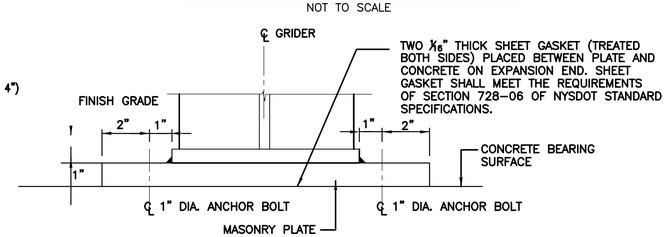
NOT TO SCALE

ANCHOR STUDS, WASHERS, WASHER PLATES, ANCHOR PLATES AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. OF THE NYSDOT STANDARD SPECIFICATION THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SUBSECTION 719-01, OF THE NYSDOT STANDARD SPECIFICATIONS "GALVANIZED COATINGS AND REPAIR METHODS."



FIXED BEARING MASONARY PLAN

NOT TO SCALE

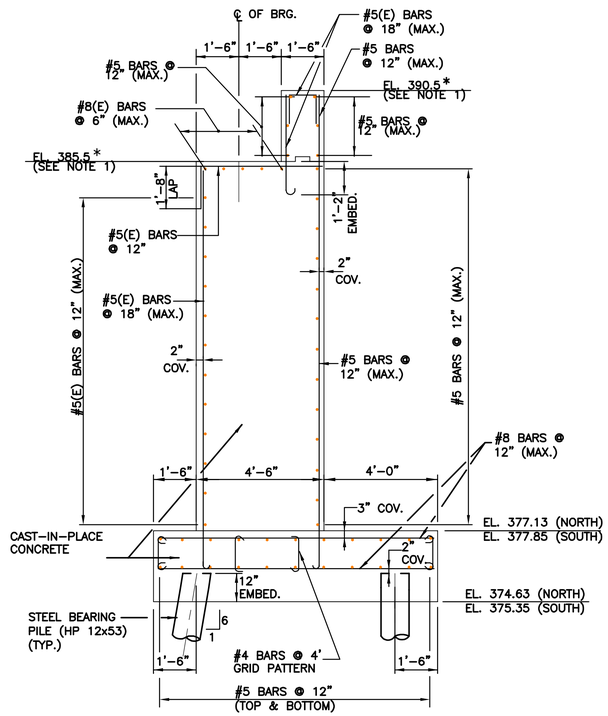


ELEVATION

TYPICAL BEARING –WATERLINE BRIDGE

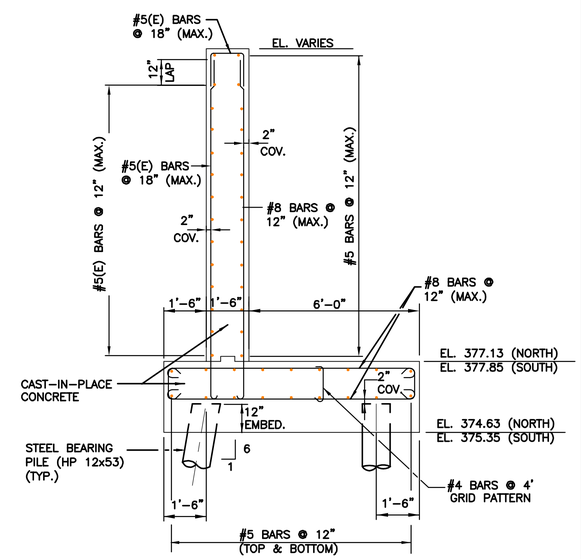
SCALE: 3/8" = 1'-0"

NOTE:
1. THE DIMENSIONS AND ELEVATIONS INDICATED ARE MINIMUMS AND MAY VARY BASED ON THE DIMENSIONS OF THE PREFABRICATED SUPER STRUCTURE PROVIDED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXTRA WORK BECAUSE OF THESE VARIATIONS.



TYPICAL ABUTMENT SECTION

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



TYPICAL WINGWALL SECTION

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

L: ON=*; OFF=*REF*
X:
8/24/10 B&L GRR
1079003/CST-G-132.DWG

SCALE:
3/8"=1'-0" 2' 0 3' 6'

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1	01/11	ISSUED FOR APPROVAL	KMK

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In charge of KMK
Designed by MDP
Drawn by GRR
Checked by MJS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

Barton & Loguidice, P.C.

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

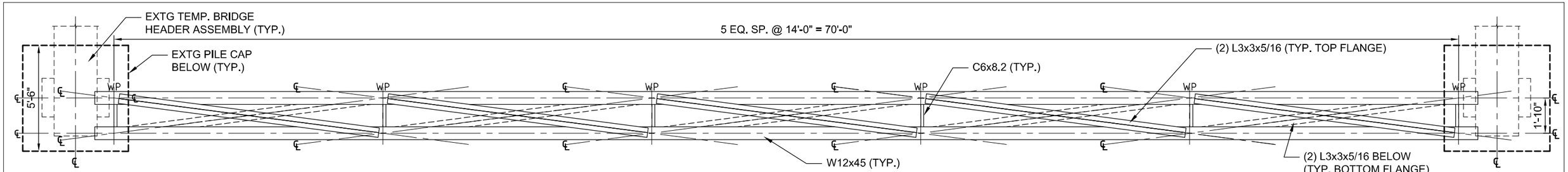
TEMPORARY CONSTRUCTION BRIDGE – DETAILS

GENERAL

STATE OF NEW YORK
MATTHEW J. SCHOLL
NO. 069983
PROFESSIONAL ENGINEER

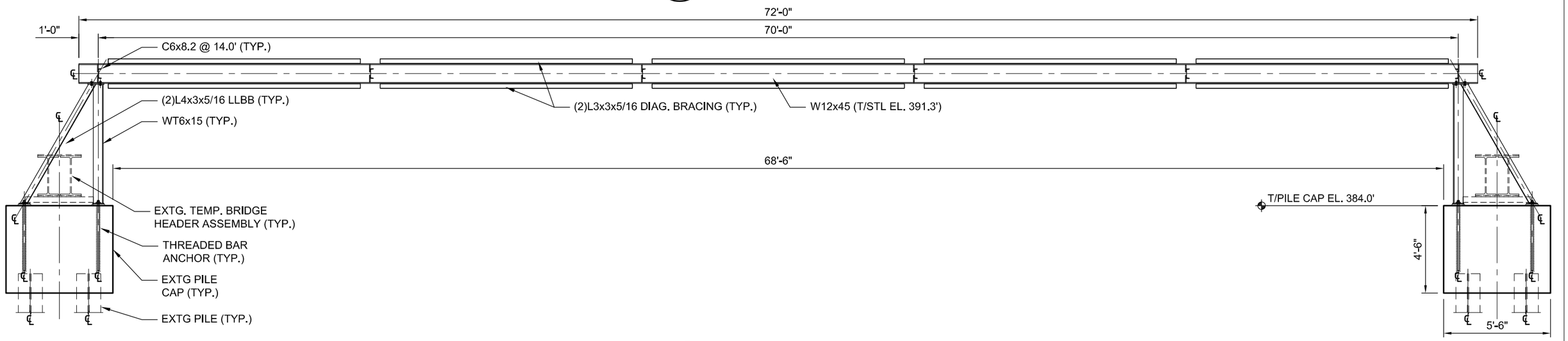
File Number 006.63
Date 04/11

G–132



N

1 PLAN
1:5



2 ELEVATION
1:5

UTILITY BRIDGE NOTES:

1. STEEL:
   - 1.1. WIDE FLANGES, TEES: ASTM A992, A572 GR. 50 OR A709 GR. 50W, FY = 50 KSI
   - 1.2. ANGLES, CHANNELS, PLATES & BARS: ASTM A36 OR ASTM A709 GR. 36W, FY = 36 KSI
   - 1.3. HIGH-STRENGTH BOLTS: ASTM A325
   - 1.4. HEX NUTS: ASTM A563
   - 1.5. HARDENED WASHERS: ASTM F436
   - 1.6. WELDING ELECTRODES: E70XX
   - 1.7. THREADED BAR ASTM A615 GR. 75, FY = 75 KSI
   - 1.8. THREADED BAR NUTS AND COUPLERS: ASTM A108

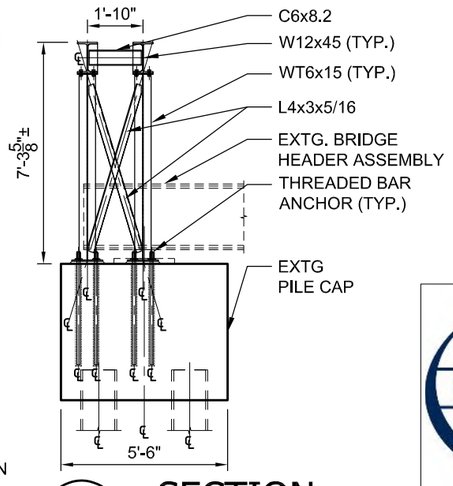
2. NON-SHRINK CEMENTITIOUS GROUT OR POLYMER GROUT:
   - 2.1. MINIMUM COMPRESSIVE STRENGTH: 4,000 PSI
   - 2.2. MINIMUM CONCRETE BOND STRENGTH: 480 PSI OR CONCRETE FAILURE
   - 2.3. MINIMUM STEEL BOND STRENGTH: 965 PSI
   - 2.4. NON-SHRINK PER ASTM C827

3. THREADED BAR ANCHORS SHALL BE INSTALLED IN CLEAN, DRY HOLES WITH NON-SHRINK CEMENTITIOUS OR POLYMER GROUT. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

4. ALL WELDING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH AWS D1.1.

5. ALL STRUCTURAL STEEL SHALL BE FINISHED IN ACCORDANCE WITH THE CONTRACT SPECIFICATION SECTION 09900 FIELD PAINTING SCHEDULE FOR EXTERIOR, NON-IMMERSION.

6. ALL BOLTS, WASHERS, NUTS, THREADED BARS AND THREADED BAR NUTS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS.



3 SECTION
1:5

0 5' 10'

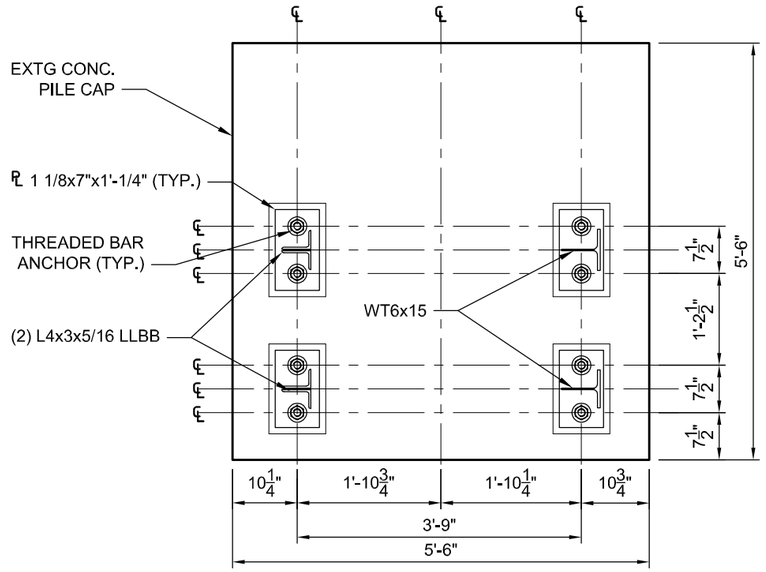
GS&S
GEOTECHNICAL SYSTEMS
AND STRUCTURES PE, PLLC
215 Valley Rd | Mexico, NY 13114
ph: 315 699-5055

WATER LINE UTILITY BRIDGE PLAN, ELEVATION, SECTION AND NOTES

CLINTON CSO STORAGE FACILITY
SYRACUSE, NY

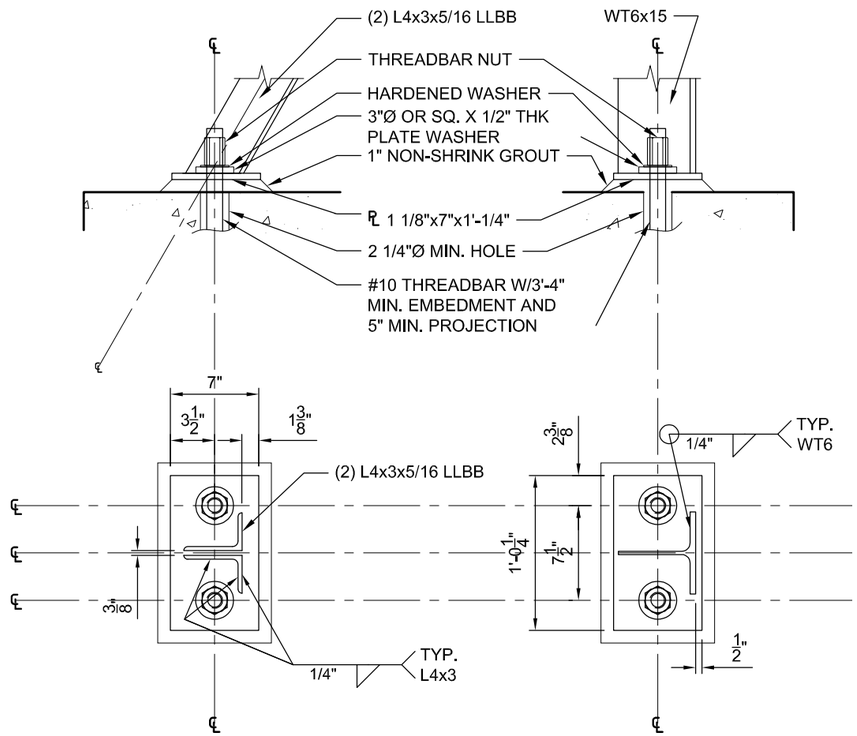
PREPARED FOR:
JETT INDUSTRIES, INC.

08/09/2013 | GS-UB-1



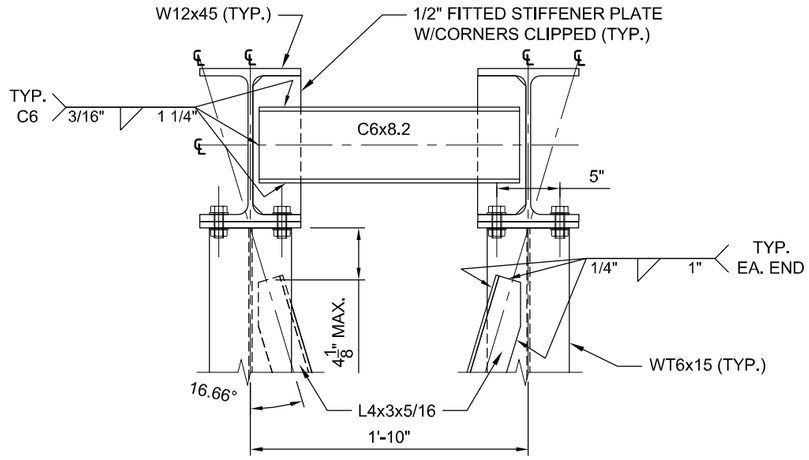
1 BASEPLATE LAYOUT

1/2" = 1'-0"



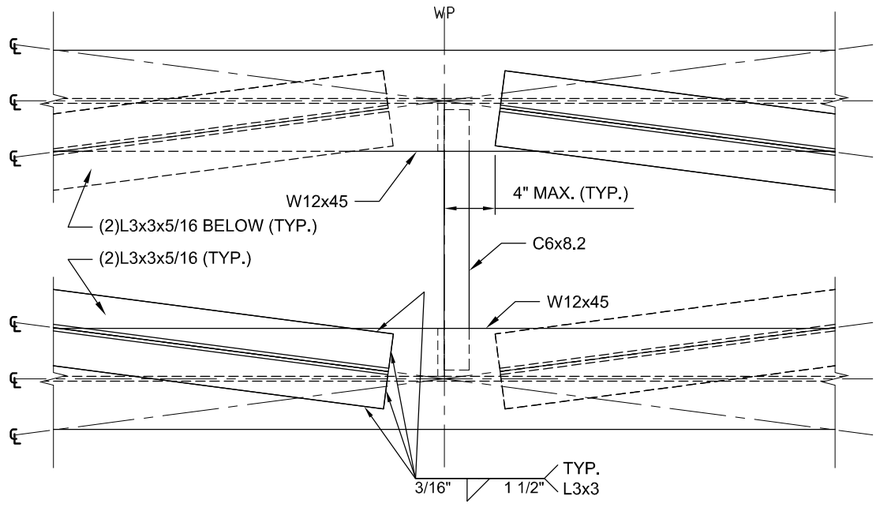
2 BASEPLATE DETAILS

1" = 1'-0"



3 SECTION

1" = 1'-0"



NOTE:

1. ALL DOUBLE ANGLES SHALL HAVE (2) TIE PLATES WELDED AT THIRD POINTS OF LENGTH SIMILAR TO SECTION 3 ON SHEET GS-UB-3..

4 PLAN DETAIL

1" = 1'-0"

UTILITY BRIDGE DESIGN CRITERIA:

1. UTILITY BRIDGE DESIGNED TO SUPPORT A MAXIMUM CONVEYANCE OPERATING WEIGHT OF 54 PLF.

2. DESIGN LOADS:
   - 2.1. DEAD:
     - 2.1.1. STRUCTURE SELF-WEIGHT
     - 2.1.2. CONVEYANCE INCLUDING JACKET, INSULATION AND ACCESSORIES: 29.8 PSF
   - 2.2. FLUID:
     - 2.2.1. CONVEYANCE FLOWING FULL: 24.2 PSF
   - 2.3. WIND:
     - 2.3.1. RISK CATEGORY IV
     - 2.3.2. BASIC WIND SPEED, V = 90 MPH
     - 2.3.3. WIND DIRECTIONALITY FACTOR, Kd = 0.85
     - 2.3.4. EXPOSURE CATEGORY B
     - 2.3.5. FORCE COEFFICIENT, CF = 1.91
     - 2.3.6. DESIGN WIND FORCE, F = 34 PSF
   - 2.4. ICE:
     - 2.4.1. NOMINAL ICE THICKNESS, t = 1 IN
     - 2.4.2. CONCURRENT WIND SPEED, Vc = 40 MPH
     - 2.4.3. ICE IMPORTANCE FACTOR, Ii = 1.25
     - 2.4.4. DESIGN ICE THICKNESS, td = 2.35 IN
     - 2.4.5. CONCURRENT WIND IMPORTANCE FACTOR, Ic = 1.00
     - 2.4.6. CONCURRENT DESIGN WIND FORCE, Fc = 3.7 PSF
   - 2.5. FLOOD:
     - 2.5.1. BASE FLOOD ELEVATION = 391.3 FT
     - 2.5.2. FLOW VELOCITY, V = 6.6 FT/S
     - 2.5.3. IMPACT LOAD:
       - 2.5.3.1. DEBRIS WEIGHT, W = 0.5 KIP
       - 2.5.3.2. IMPACT FORCE, Fi = 8.4 KIP
     - 2.5.4. DEBRIS LOAD:
       - 2.5.4.1. DEBRIS LOAD IS NON-CONCURRENT WITH IMPACT LOAD.
       - 2.5.4.2. DEBRIS FORCE, Fd = 42 PLF
   - 2.6. EARTHQUAKE DESIGN DATA:
     - 2.6.1. RISK CATEGORY IV
     - 2.6.2. SEISMIC USE GROUP III
     - 2.6.3. SEISMIC IMPORTANCE FACTOR, IE = 1.5
     - 2.6.4. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
       - 2.6.4.1. SS = 0.141g
       - 2.6.4.2. S1 = 0.053g
     - 2.6.5. SITE CLASS D
     - 2.6.6. SPECTRAL RESPONSE COEFFICIENTS:
       - 2.6.6.1. SDS = 0.150g
       - 2.6.6.2. SD1 = 0.09g
       - 2.6.6.3. SEISMIC DESIGN CATEGORY C
       - 2.6.6.4. BASIC SEISMIC-FORCE-RESISTING-SYSTEMS:
         - 2.6.6.4.1. ORDINARY CONCENTRICALLY BRACED FRAME
     - 2.6.7. EQUIVALENT LATERAL FORCE PROCEDURE
     - 2.6.8. RESPONSE MODIFICATION FACTOR, R = 1.5
     - 2.6.9. SEISMIC RESPONSE COEFFICIENT, Cs = 0.15
     - 2.6.10. SEISMIC BASE SHEAR, V = 2.1 KIP

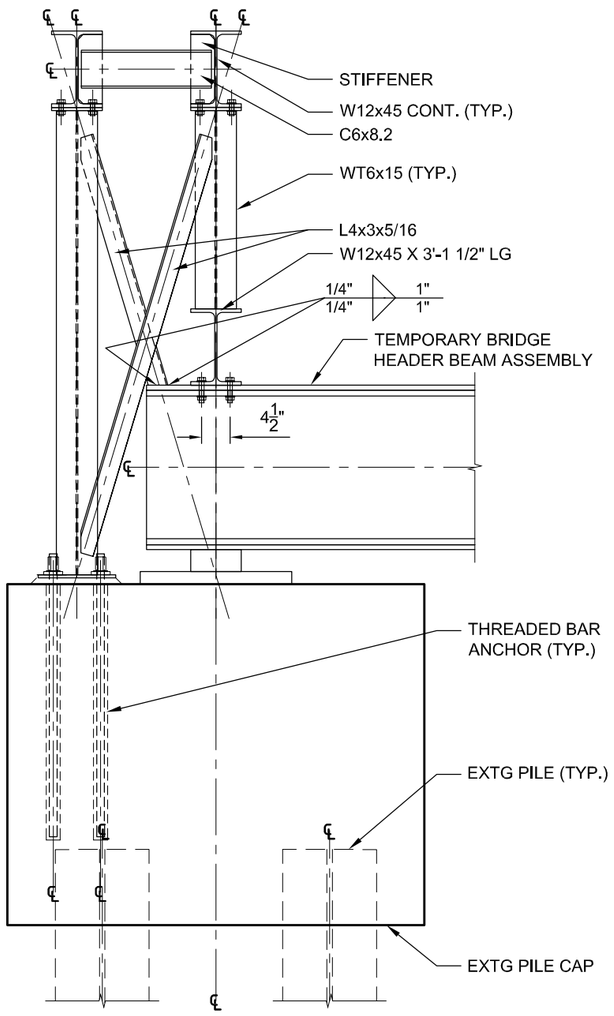
GEOTECHNICAL SYSTEMS
AND STRUCTURES PE, PLLC
215 Valley Rd | Mexico, NY 13114
ph: 315 699-5055

WATER LINE UTILITY BRIDGE SECTIONS, DETAILS AND NOTES

CLINTON CSO STORAGE FACILITY
SYRACUSE, NY

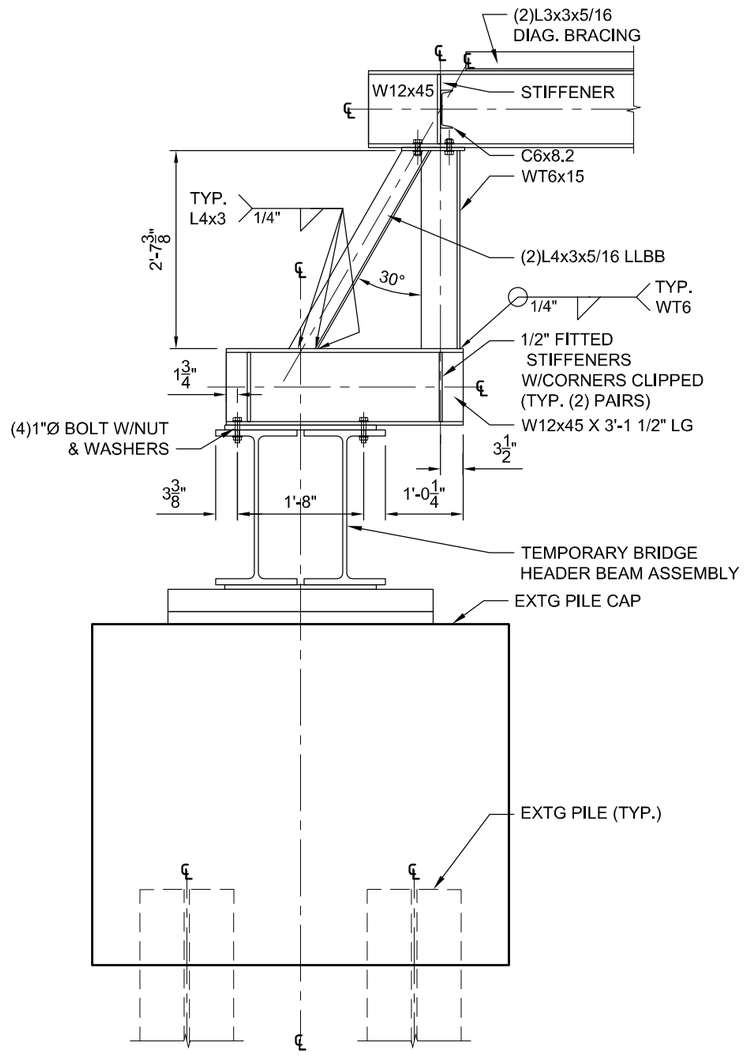
PREPARED FOR:
JETT INDUSTRIES, INC.

08/09/2013 | GS-UB-2



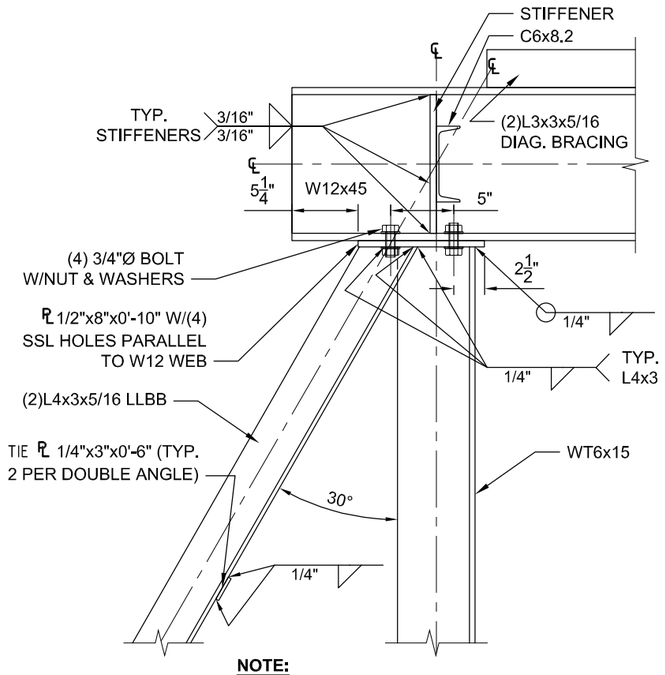
1 TEMPORARY SUPPORT

1/2" = 1'-0"



2 TEMPORARY SUPPORT

1/2" = 1'-0"

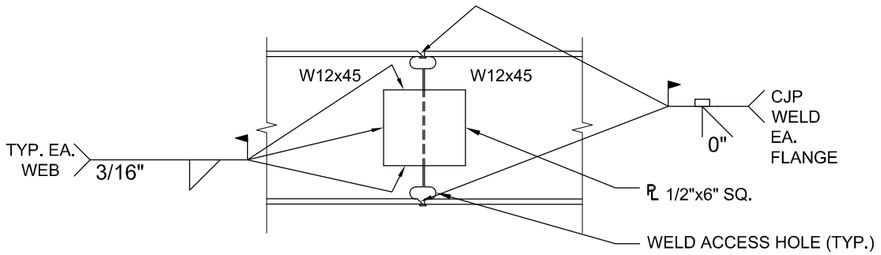


NOTE:

1. THIS SECTION TYPICAL FOR TEMPORARY AND PERMANENT SUPPORTS.

3 SECTION

1" = 1'-0"



4 W12 SPLICE DETAIL

1" = 1'-0"

TEMPORARY SUPPORT NOTES:

1. CUT AND REMOVE 1'-1" OF EXISTING TEMPORARY BRIDGE HEADER BEAM ASSEMBLY TO ALLOW INSTALLATION OF THE WEST SUPPORTS.
2. TOP CONNECTION AT W12x45 SIMILAR TO PERMANENT SUPPORT, SEE SECTION 3 THIS SHEET.

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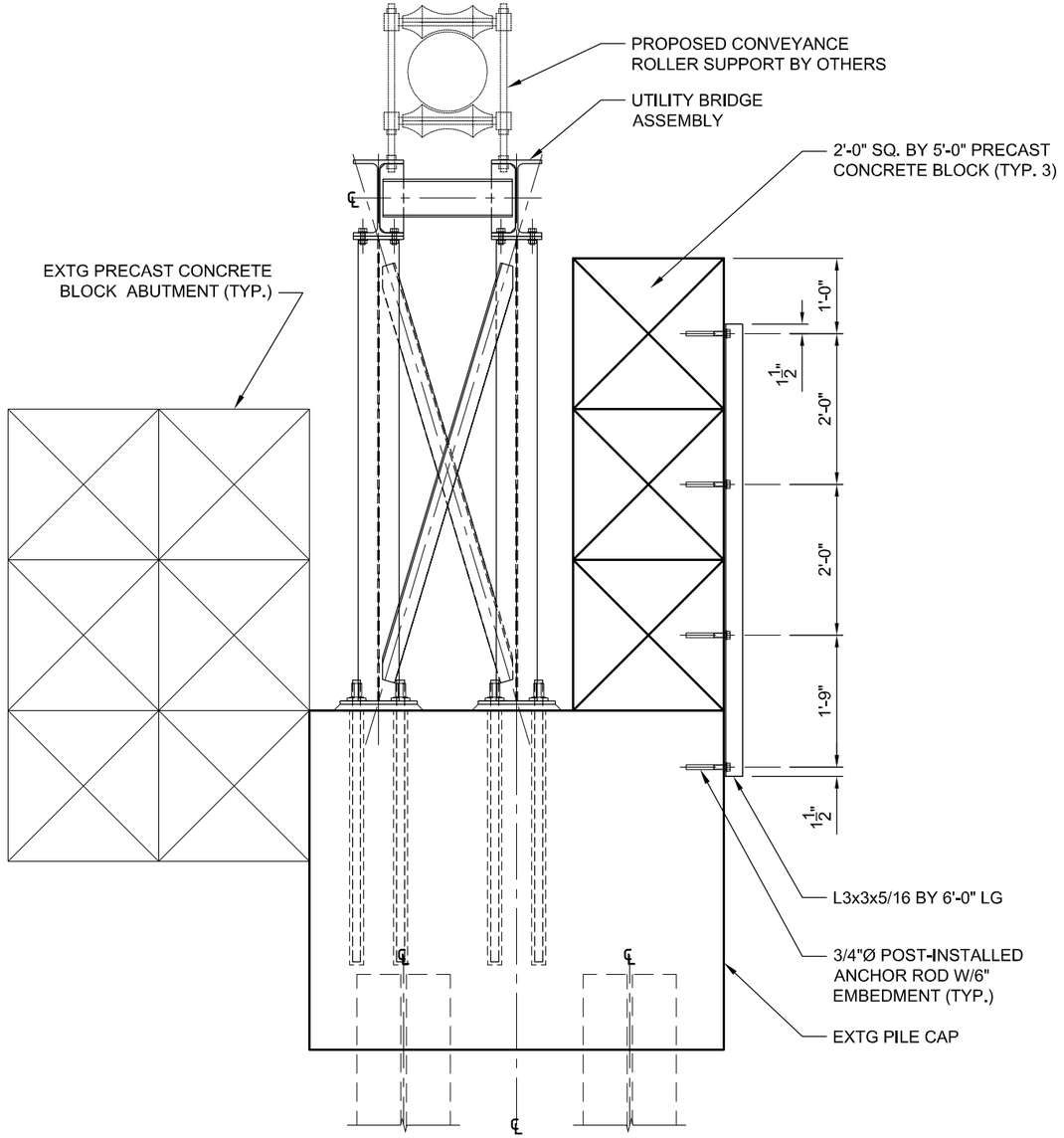
WATER LINE UTILITY BRIDGE ELEVATIONS, SECTION AND DETAIL

CLINTON CSO STORAGE FACILITY
SYRACUSE, NY

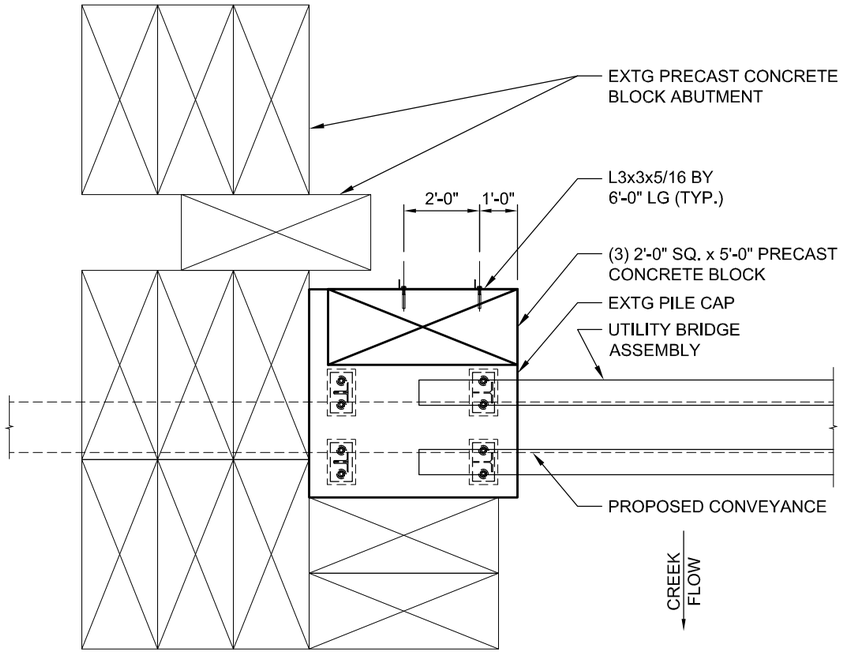
PREPARED FOR:
JETT INDUSTRIES, INC.

08/09/2013 | GS-UB-3



1 ABUTMENT DETAIL

1/2" = 1'-0"



2 ABUTMENT PLAN

1/4" = 1'-0"

POST-INSTALLED ANCHOR NOTES:

1. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. ANCHOR ROD SHALL BE "HAS B7" AND ADHESIVE SHALL BE "HIT HY 150 MAX SD" AS MANUFACTURED BY THE HILTI CORPORATION.

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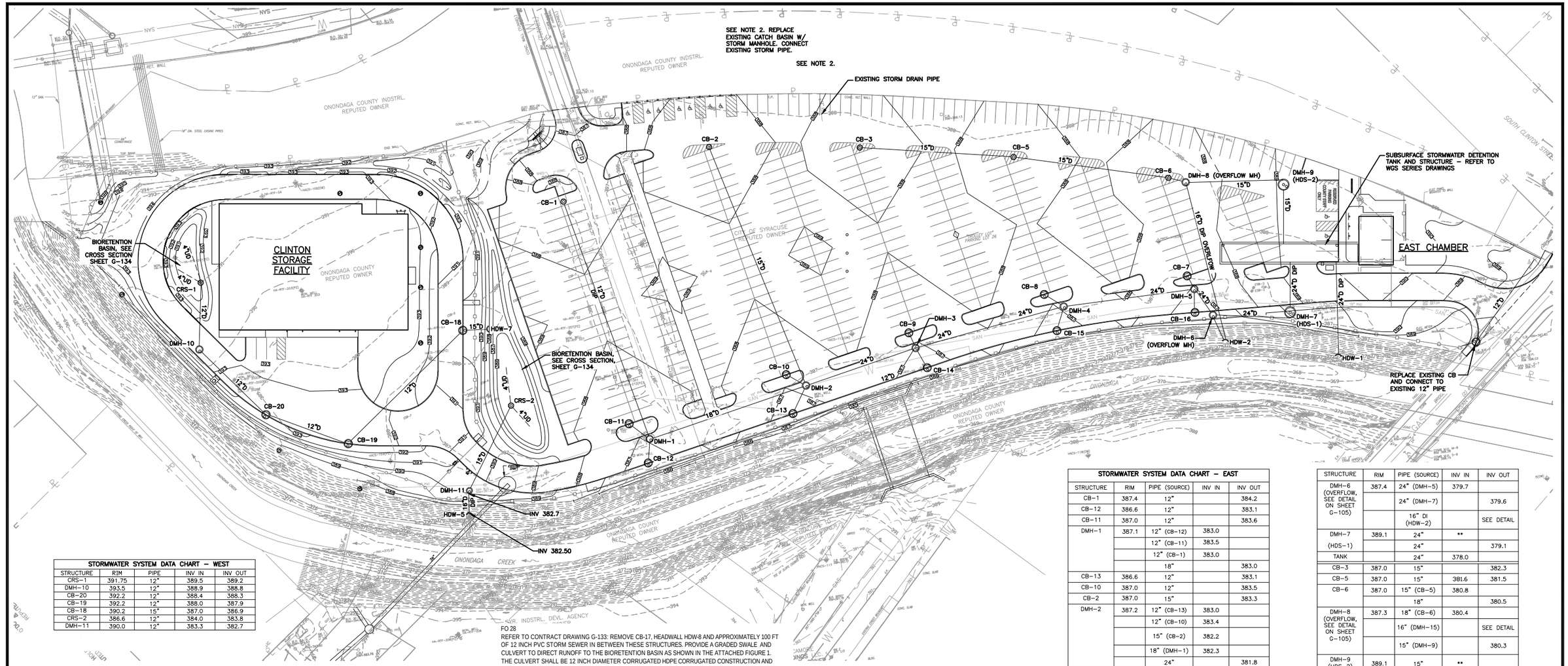
WATER LINE UTILITY BRIDGE ABUTMENT PLAN AND DETAIL

CLINTON CSO STORAGE FACILITY
SYRACUSE, NY

PREPARED FOR:
JETT INDUSTRIES, INC.

08/09/2013 | GS-UB-4



STORMWATER SYSTEM DATA CHART – WEST				
STRUCTURE	RIM	PIPE	INV IN	INV OUT
CRS-1	391.75	12"	389.5	389.2
DMH-10	393.5	12"	388.9	388.8
CB-20	392.2	12"	388.4	388.3
CB-19	392.2	12"	388.0	387.9
CB-18	390.2	15"	387.0	386.9
CRS-2	386.6	12"	384.0	383.8
DMH-11	390.0	12"	383.3	382.7

STORMWATER SYSTEM DATA CHART – OUTFALLS			
OUTLET	FROM	PIPE	INV EL.
HDW-1	TANK OVERFLOW	24"	376.5
HDW-2	OVERFLOW FROM DMH-6	16"	377.0
	OVERFLOW FROM DMH-8	16"	377.0
HDW-5	FROM DMH-11	16"	382.5
HDW-7	FROM CB-18 TO BIORETENTION	15"	386.85

DRAINAGE STRUCTURE LEGEND

- 4' DIA. PRECAST CONCRETE CATCH BASIN
- 6' DIA. PRECAST CONCRETE CATCH BASIN AT CURBS
- 5' DIA. PRECAST CONCRETE MANHOLES
- HYDRODYNAMIC SEPARATOR PER SPECIFICATIONS

NOTES:

1. ALL STORMWATER COLLECTION PIPES TO BE PVC CONSTRUCTION UNLESS OTHERWISE NOTED.

FO 28
REFER TO CONTRACT DRAWING G-133: REMOVE CB-17, HEADWALL HDW-8 AND APPROXIMATELY 100 FT OF 12 INCH PVC STORM SEWER IN BETWEEN THESE STRUCTURES. PROVIDE A GRADED SWALE AND CULVERT TO DIRECT RUNOFF TO THE BIORETENTION BASIN AS SHOWN IN THE ATTACHED FIGURE 1. THE CULVERT SHALL BE 12 INCH DIAMETER CORRUGATED HDPE CORRUGATED CONSTRUCTION AND USED UNDER THE FENCE CROSSING. THE 1-1/2 INCH SUMP PUMP DISCHARGE FOR THE WATER METER VAULT PREVIOUSLY DISCHARGED TO CB-17 SHALL BE DISCHARGE TO DAYLIGHT IN THE SWALE. PROVIDE TYPE 2 (NYSDOT TYPE 2) CRUSHED STONE AROUND THE SUMP PUMP DISCHARGE OUTLET.

REVISE THE PIPE BETWEEN THE CRS-2 AND DMH-11 FROM A 12 INCH PVC TO A 15 INCH PVC PIPE. REVISE THE PIPE BETWEEN DMH-11 AND HDW-5 FROM A 12 INCH PVC TO A 16 INCH DUCTILE IRON PIPE AND LOWER THE PIPE INVERT ELEVATIONS AS SHOWN IN FIGURE 1. REVISE THE HEADWALL HDW-5 AND ELASTOMERIC CHECK VALVE ACCORDINGLY.

FO 42
IN REVIEW OF SHOP DRAWING 2514-10-03 "6 FT DIAMETER PRECAST CONCRETE CATCH BASINS" IT WAS NOTED THAT THE STORM DRAINS WERE SLIGHTLY TOO SHALLOW TO PROPERLY FIT THE CATCH BASIN. THEREFORE REVISE THE INVERT ELEVATIONS AT CATCH BASIN CB-18 AS FOLLOWS:
12" INVERT IN LOWER FROM 387.3 TO 387.0
15" INVERT OUT LOWER FROM 387.2 TO 386.9
REVISE THE 15" INVERT ELEVATION FOR HEADWALL HDW-7 FROM 387.1 TO 386.85

RFI 207
THE STORM SEWER BETWEEN DMH-9 AND THE FLUSHING TANKS (STORM WATER HOLDING TANK) SHALL BE 15-INCH DIAMETER, PVC CONSTRUCTION. PLEASE DISREGARD THE REFERENCED TO "DUCTILE IRON".

RFI 303
CONTRACTOR'S PROPOSED INVERT ELEVATION CHANGES FOR CB-18 AND HDW-7 ARE ACCEPTABLE, EXCEPT AS MODIFIED BELOW.

REVISE THE ELEVATION OF CB-18 INVERT IN, SUCH THAT THE PIPE CROWN ELEVATION MATCHES THE ELEVATION OF THE 15 INCH INVERT OUT. THE NEW ELEVATIONS SHALL BE AS FOLLOWS:
NEW INVERT ELEVATIONS:
CB-18 INVERT IN (12") 386.95
CB-18 INVERT OUT (15") 386.7
HDW-7 INVERT 386.6

STORMWATER SYSTEM DATA CHART – EAST				
STRUCTURE	RIM	PIPE (SOURCE)	INV IN	INV OUT
CB-1	387.4	12"		384.2
CB-12	386.6	12"		383.1
CB-11	387.0	12"		383.6
DMH-1	387.1	12" (CB-12)	383.0	
		12" (CB-11)	383.5	
		12" (CB-1)	383.0	
		18"		383.0
CB-13	386.6	12"		383.1
CB-10	387.0	12"		383.5
CB-2	387.0	15"		383.3
DMH-2	387.2	12" (CB-13)	383.0	
		12" (CB-10)	383.4	
		15" (CB-2)	382.2	
		18" (DMH-1)	382.3	
		24"		381.8
CB-14	386.6	12"		383.1
CB-9	387.0	12"		383.5
DMH-3	386.9	12" (CB-9)	383.4	
		12" (CB-14)	383.0	
		24"	381.3	
		24"		381.2
CB-15	386.6	12"		383.2
CB-8	387.0	12"		383.5
DMH-4	387.1	12" (CB-15)	383.0	
		12" (CB-8)	383.4	
		24"	380.6	
		24"		380.5
CB-16	386.6	12"		383.1
CB-7	387.0	12"		383.3
DMH-5	386.9	12" (CB-16)	383.0	
		12" (CB-7)	383.2	
		24"	380.0	
		24"		379.9

STRUCTURE	RIM	PIPE (SOURCE)	INV IN	INV OUT
DMH-6 (OVERFLOW, SEE DETAIL ON SHEET G-105)	387.4	24" (DMH-5)	379.7	
		24" (DMH-7)		379.6
		16" DI (HDW-2)		SEE DETAIL
DMH-7 (HDS-1)	389.1	24"	**	
		24"		379.1
TANK		24"	378.0	
CB-3	387.0	15"		382.3
CB-5	387.0	15"	381.6	381.5
CB-6	387.0	15" (CB-5)	380.8	
		18"		380.5
DMH-8 (OVERFLOW, SEE DETAIL ON SHEET G-105)	387.3	18" (CB-6)	380.4	
		16" (DMH-15)		SEE DETAIL
		15" (DMH-9)		380.3
DMH-9 (HDS-2)	389.1	15"	**	
		15"		379.7
TANK		15"	377.1	

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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: 05/16 PER: RCF

* CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF EXISTING STORM DRAIN PIPES

** COORDINATE WITH MANUFACTURER OF HDS FOR INLET INVERT ELEVATION.

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
1"=40'-0" (40 0 40 80)

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.

No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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Designed by GSL
Drawn by GSL
Checked by RCF

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

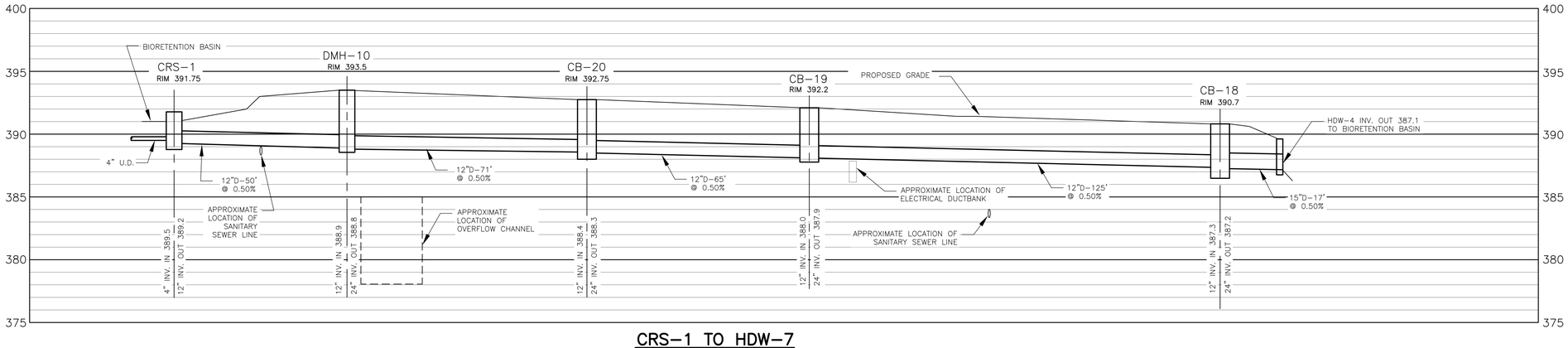
STORMWATER COLLECTION PLAN

GENERAL

STATE OF NEW YORK · GERALD C. ROOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

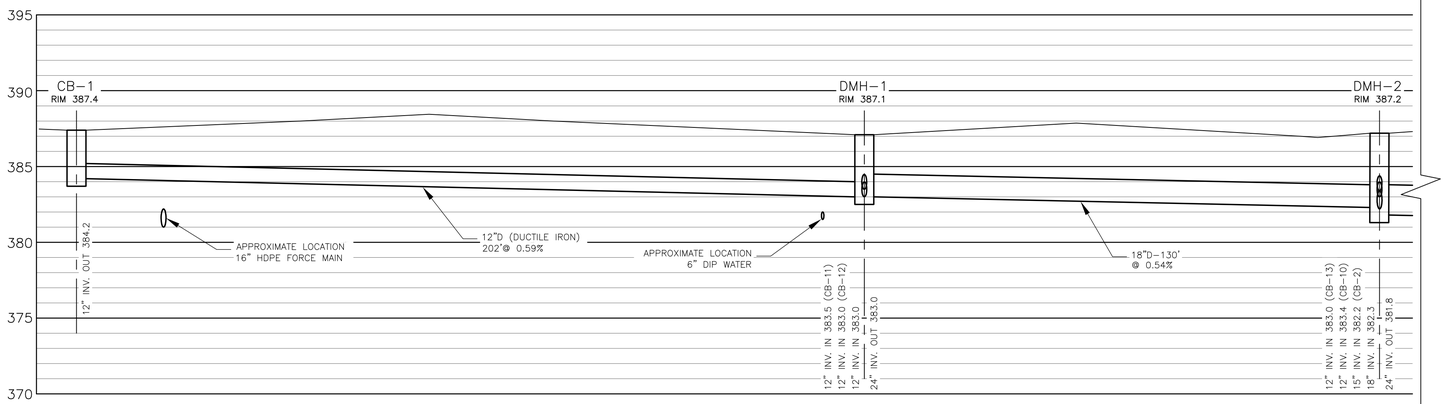
File Number 00663
Date 04/11

G-133



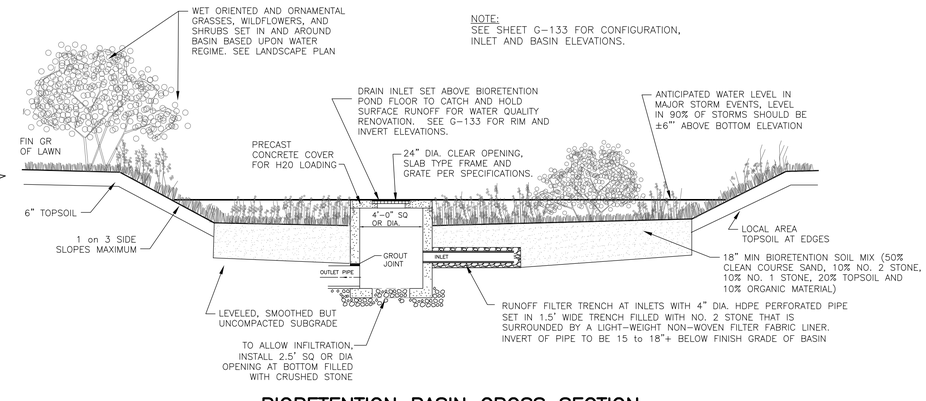
CRS–1 TO HDW–7

SCALE: 1'=20' HORIZ
1'=5' VERTICAL



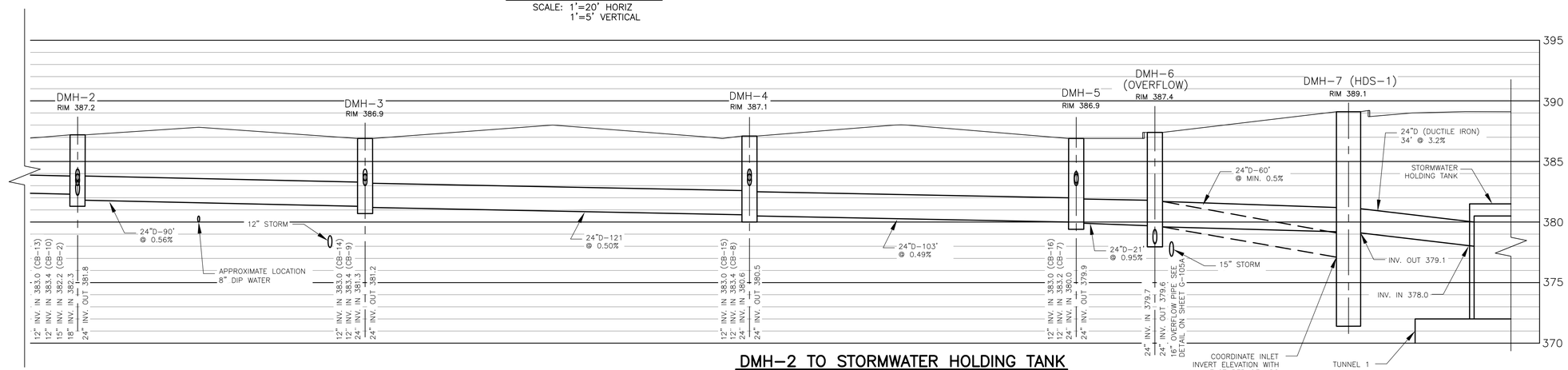
CB–1 TO DMH–2

SCALE: 1'=20' HORIZ
1'=5' VERTICAL



BIORETENTION BASIN CROSS SECTION

NOT TO SCALE



DMH–2 TO STORMWATER HOLDING TANK

SCALE: 1'=20' HORIZ
1'=5' VERTICAL

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

SCALE:
1"=5'–0" (5 0 5 10)
1"=40'–0" (40 0 40 80)

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Checked by RCF

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SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

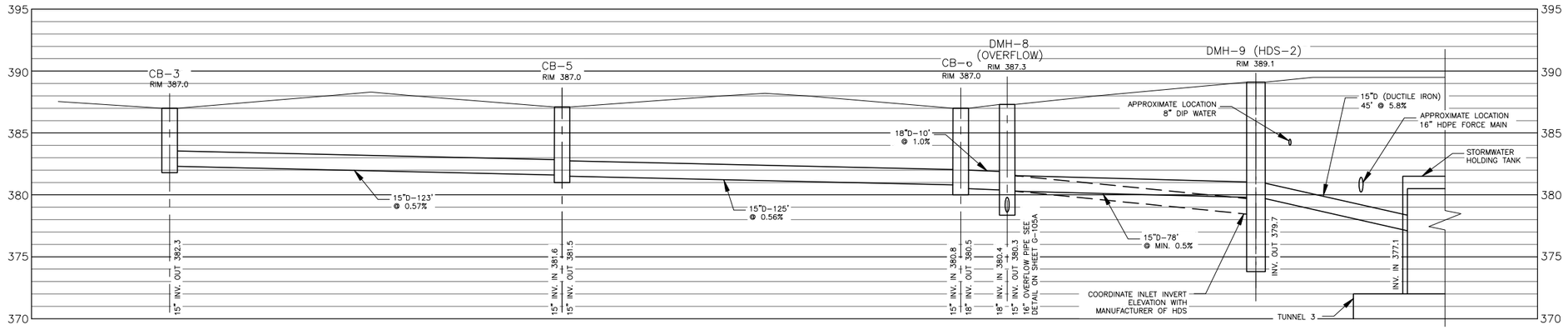
STORMWATER COLLECTION SYSTEM PROFILES AND DETAILS

GENERAL

STATE OF NEW YORK · GERALD C. HOOK · LICENSED PROFESSIONAL ENGINEER · No. 57504

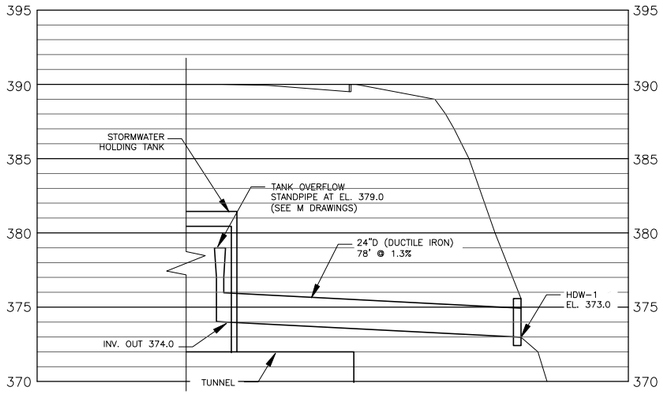
File Number 00663
Date 11/11

G–134



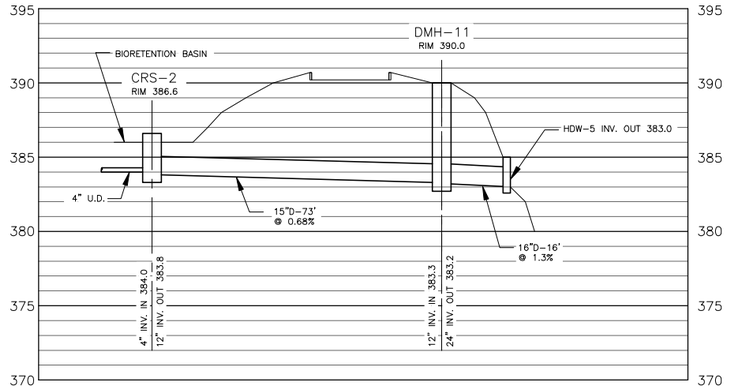
CB-3 TO STORMWATER HOLDING TANK

SCALE: 1"=20' HORIZ
1"=5' VERTICAL



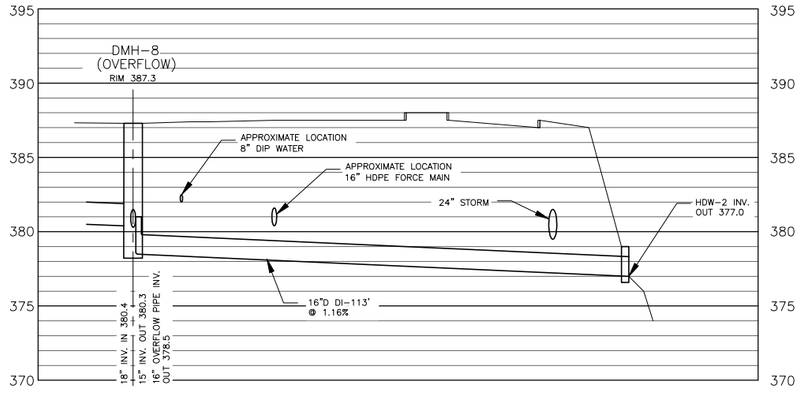
STORMWATER HOLDING TANK OVERFLOW TO HDW-1

SCALE: 1"=20' HORIZ
1"=5' VERTICAL



CRS-2 TO HDW-5

SCALE: 1"=20' HORIZ
1"=5' VERTICAL



DMH-8 TO HDW-2 (OVERFLOW)

SCALE: 1"=20' HORIZ
1"=5' VERTICAL

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
1"=5'-0" 5 0 5 10
1"=40'-0" 40 0 40 80

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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CLINTON CSO STORAGE FACILITY PROJECT

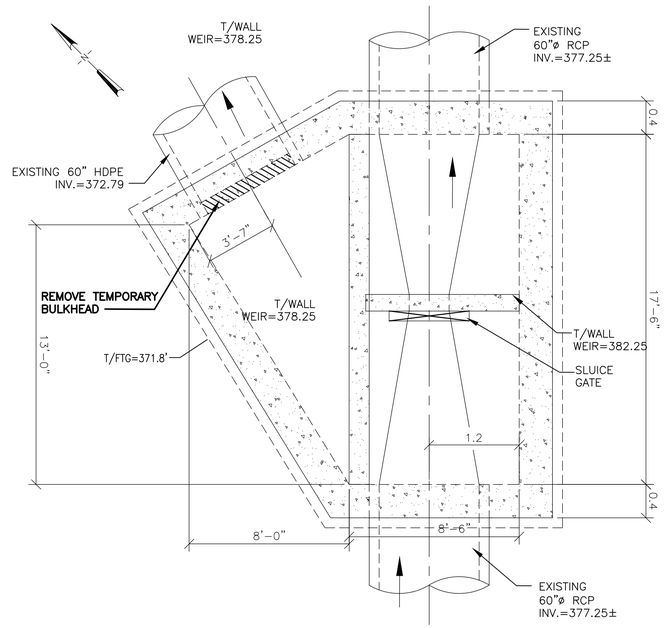
STORMWATER COLLECTION SYSTEM PROFILES AND DETAILS

GENERAL

STATE OF NEW YORK · GERALD C. HOOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

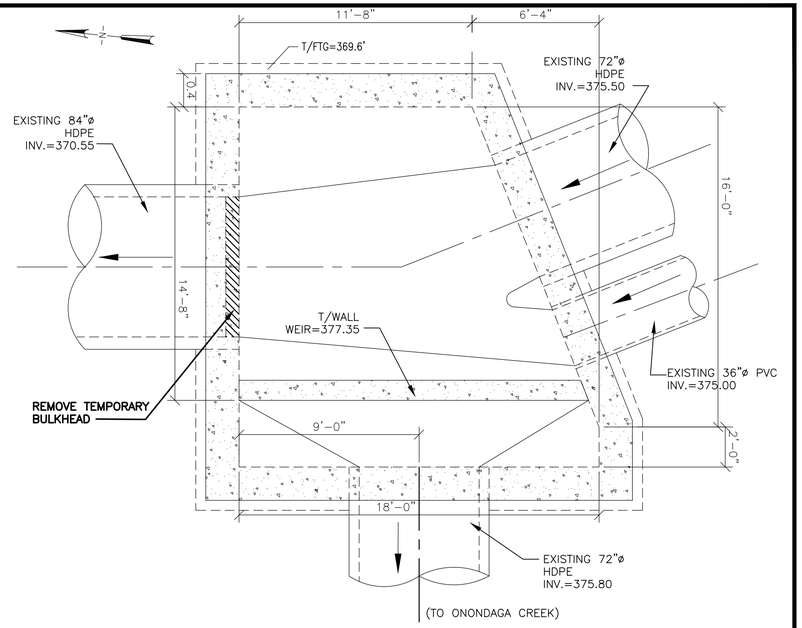
File Number 00663
Date 03/12

G-134A



EXISTING MH–D4 PLAN

NOT TO SCALE



EXISTING MH–A2 PLAN

NOT TO SCALE

BULKHEAD REMOVAL TABLE

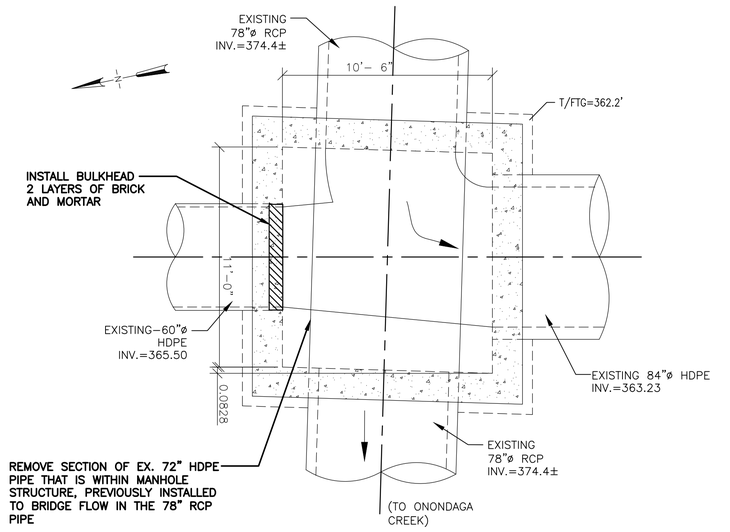
MANHOLE	STRUCTURE TYPE	NOTES
MH-A2	SEE ABOVE	REMOVE BULKHEAD PROTECTING 84" HDPE PIPE
MH-A5	10' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 36" PVC PIPE
MH-D1	5' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 30" PVC PIPE
MH-D3	10' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 66" HDPE PIPE
MH-D4	SEE ABOVE	REMOVE BULKHEAD PROTECTING 60" HDPE PIPE
MH-T1	5' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 24" PVC PIPE
MH-W7A	8' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 30" PVC PIPE
MH-W6	8' DIAMETER ROUND	REMOVE BULKHEAD PROTECTING 27" PVC PIPE
MH-J1	SEE ABOVE	CUT 72" BRIDGE PIPE TO ALLOW FLOW TO DROP INTO EXISTING CONVEYANCE. INSTALL BULKHEAD TO PREVENT FLOW TO 60" PIPE

NOTES:

1. LOCATIONS OF EXISTING MANHOLES ARE SHOWN IN THE CLINTON STREET CSO CONVEYANCES PROJECT AS–BUILT DRAWINGS, AS PREPARED BY CDM/C&S, WHICH WERE PROVIDED FOR INFORMATION, BUT ARE NOT PART OF THE CONTRACT.
2. BULKHEADS CONSIST OF BRICK/BLOCK MASONRY PLUG.
3. THIS WORK SHALL NOT BE PERFORMED UNTIL THE CLINTON CSO STORAGE FACILITY IS OPERATIONAL AND AS ORDERED BY THE OWNER'S REPRESENTATIVE.

CONTRACTOR SHALL:

1. DEWATER SEWAGE FROM MANHOLES AS REQUIRED. SEWAGE MAY BE DIRECTED TO A LOCAL SANITARY MANHOLE, AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
2. REMOVE BULKHEADS, BULKHEAD SUPPORTS AND HARDWARE, AND ALL SHARP OR JAGGED CONCRETE EDGES. EXCESS MATERIALS SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
3. GROUT HOLES, PATCH CONCRETE AND/OR INSTALL BENCHWALL TO PROVIDE A SMOOTH TRANSITION OF FLOW INTO OUTLET PIPELINE.
4. WORK SHALL BE PERFORMED AS DIRECTED BY OWNER'S ENGINEER.



EXISTING MH–J1 PLAN

NOT TO SCALE

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DATE: 04/01/2015 PER: _____

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

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No.	Date	Revisions	Init
3	04/15	RECORD DRAWINGS	
2	04/11	AS BID	RCG
1	01/11	ISSUED FOR APPROVAL	RCG

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Drawn by SLJ
Checked by MER

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SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

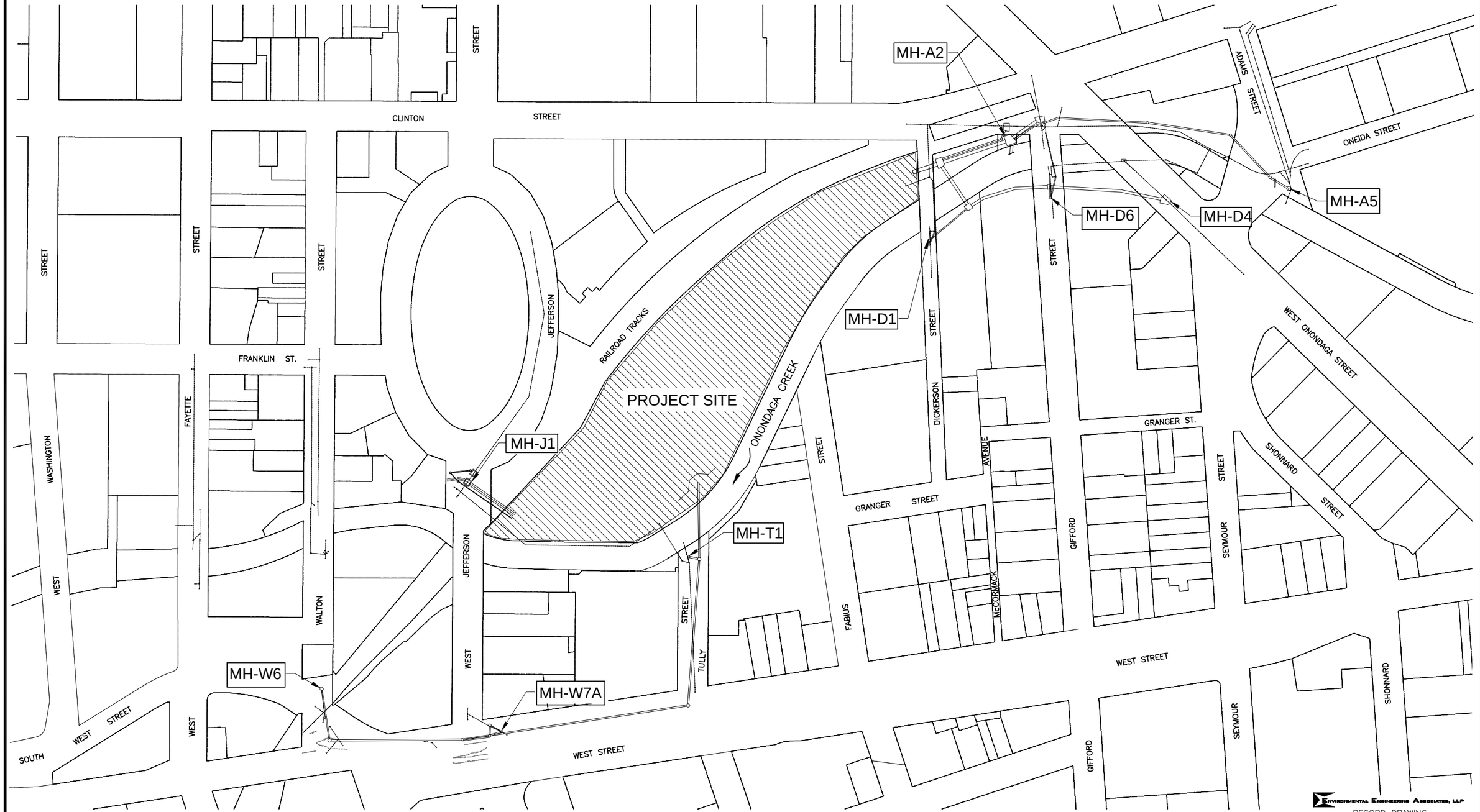
BULKHEAD REMOVAL DETAILS

GENERAL

STATE OF NEW YORK ROBERT E. GOOD 57013 LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G–135



PLAN
NO SCALE

L: ON=*; OFF=*REF*
X:
03/03/11 GHD RWS
DIR/DWG

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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: 05/16 PER: RCF

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No.	Date	Revisions	Init
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SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

CSO LOCATION PLAN

GENERAL

STATE OF NEW YORK · GERALD C. ROOK · LICENSED PROFESSIONAL ENGINEER · NO. 57504

File Number 00663
Date 04/11

G-136

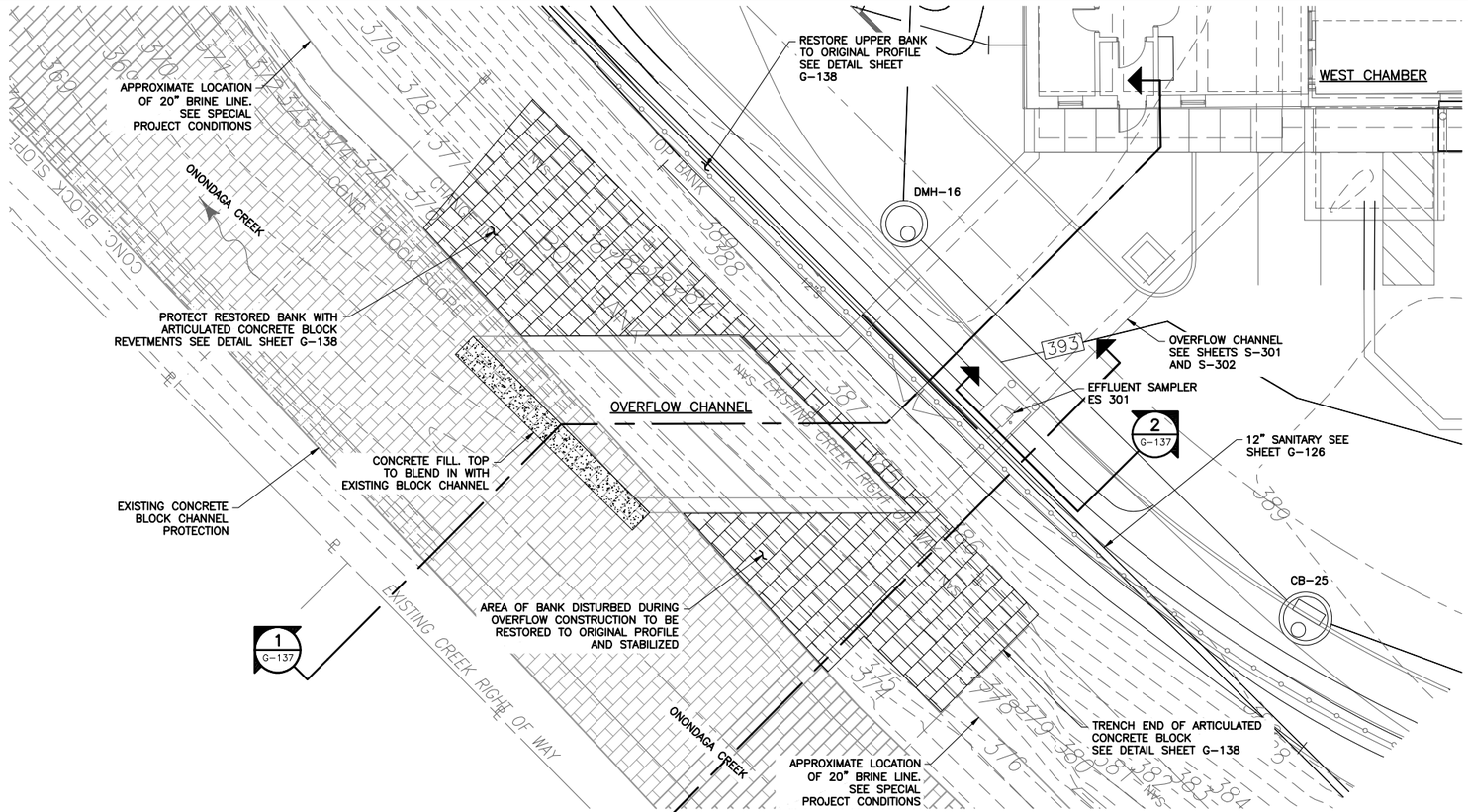
RFI 243
EVEN THOUGHT THE EXISTING CREEK BED (CHANNEL) IS CONSTRUCTED OF CONCRETE SLABS INSTEAD OF CONCRETE BLOCKS, THE CONCRETE FILL AT THE END OF THE OVERFLOW CHANNEL SLAB SHALL STILL BE CONSTRUCTED AS INDICATED IN SECTION 1/S-302. IT SHOULD BE NOTED THAT THIS CONCRETE FILL IS EXPOSED TO PROCESS WATER, SO IT SHALL BE CONSTRUCTED OF 'MIX B' CONCRETE.

IF THE CONTRACTOR DESIRES TO CAST THIS CONCRETE FILL MONOLITHIC WITH THEN END OF THE OVERFLOW CHANNEL SLAB, THEN SUBMIT A PROPOSED DETAIL ON HOW THIS WOULD BE CONSTRUCTED. THIS PROPOSED DETAIL SHALL INCLUDE ADDITIONAL REINFORCING BARS EXTENDING INTO THIS NEWLY ADDED MONOLITHIC SECTION.

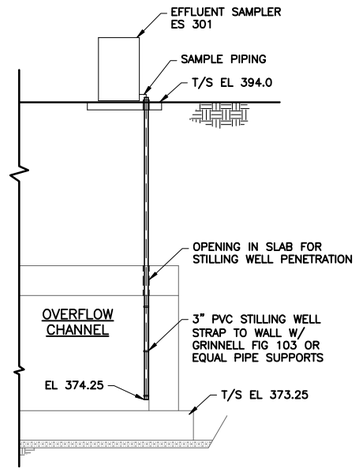
RFI 334
WE TAKE NO ISSUE WITH INSTALLING THE REVETMENT MAT AT A HIGHER ELEVATION AND CONTINUING IT UP HIGHER.

PROVIDE THE SPECIFICATION OF THE CONCRETE LINING AND GROUTED RIP RAP.

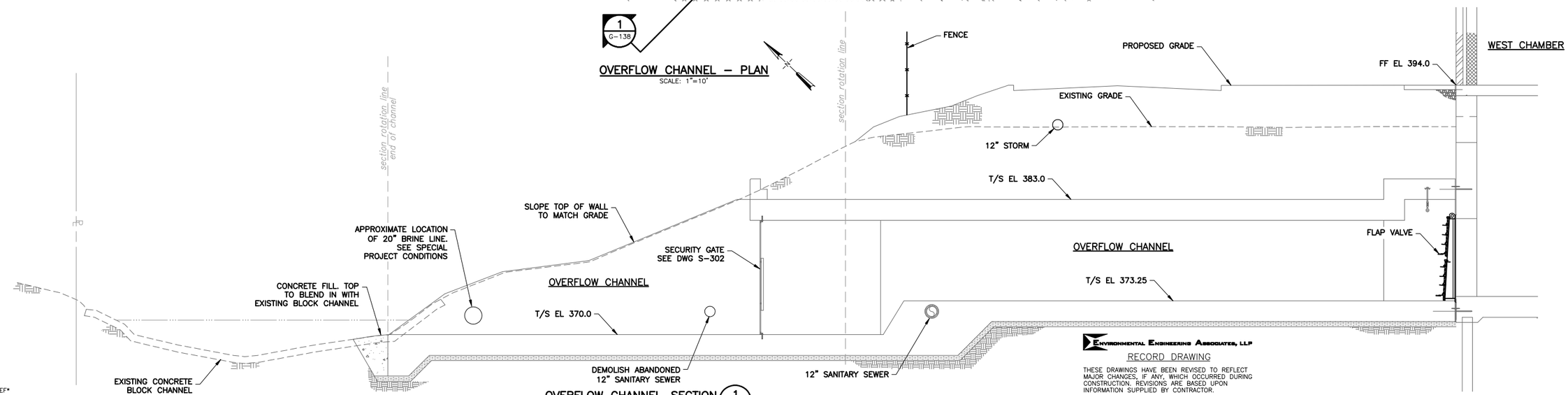
PROVIDE MORE DETAIL, INCLUDING PLANS AND SECTIONS, SHOWING HOW THE CONCRETE CREEK LINING AND GROUTED RIP RAP ARE TO BE CONSTRUCTED AND TIED INTO THE EXISTING BANK AND HOW THEY WILL BE TIED-IN BELOW THE WATER LINE.



OVERFLOW CHANNEL – PLAN
SCALE: 1"=10'



EFFLUENT SAMPLER 2/G-137
SCALE: 1"=5'



OVERFLOW CHANNEL–SECTION 1/G-137
SCALE: 1"=5'

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DATE: 05/16 PER: RCF

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X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
1"=10'-0" 10 0 10 20
1"=5'-0" 5 0 5 10

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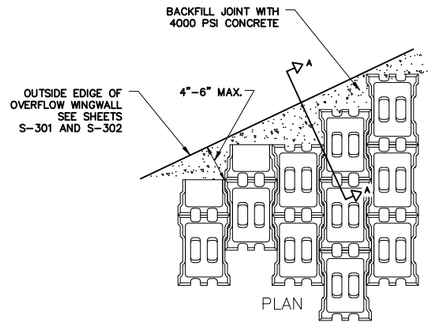
ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

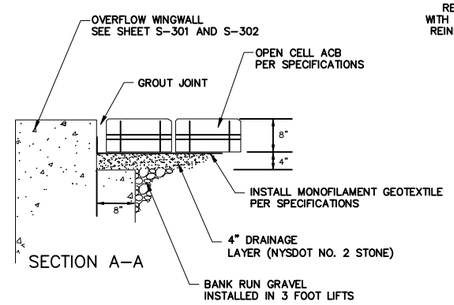
OVERFLOW CHANNEL PLAN AND SECTIONS
GENERAL

STATE OF NEW YORK · GERALD C. HUNT · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

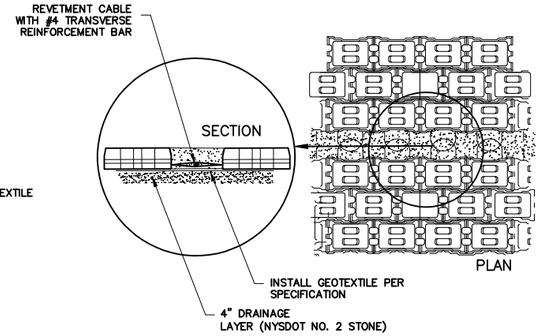
G-137





ARTICULATED CONCRETE BLOCK AT WINGWALL

NOT TO SCALE

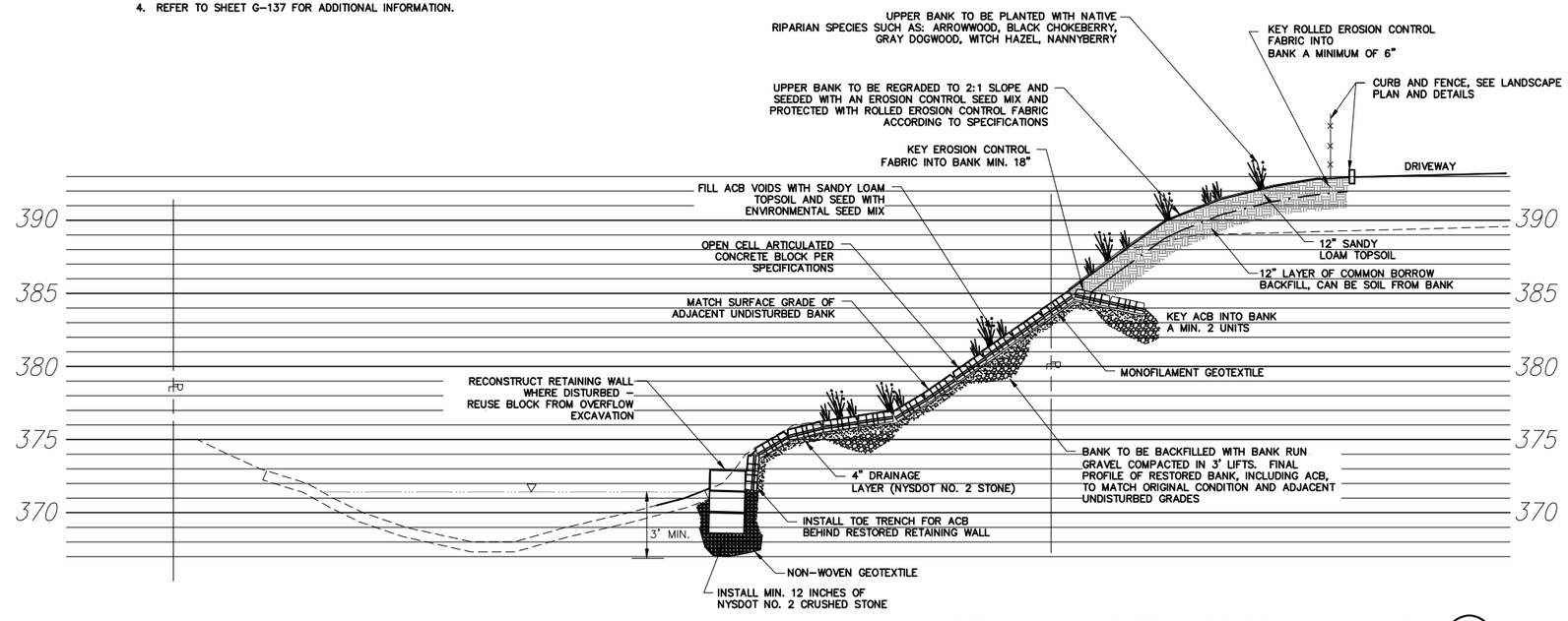


ARTICULATED CONCRETE BLOCK GROUT SEAM

NOT TO SCALE

NOTES:

1. CREEK BANKS DISTURBED DURING CONSTRUCTION OF OVERFLOW TO BE RESTORED TO ORIGINAL PROFILE.
2. ENTIRE AREA OF RESTORED BANK TO BE PROTECTED WITH ARTICULATED CONCRETE BLOCK (ACB) REVETMENTS. ACB SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS.
3. ACB MUST BE TERMINATED ON ALL FOUR SIDES, TOP, BOTTOM AND BOTH UPSTREAM AND DOWNSTREAM EDGES BY TRENCHING OR TYING TO ADJACENT STRUCTURE (SEE DETAILS THIS SHEET).
4. REFER TO SHEET G-137 FOR ADDITIONAL INFORMATION.



CREEK CHANNEL- UPSTREAM RESTORATION CROSS SECTION 2

SCALE: 1"=5'

G-137

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

OVERFLOW CHANNEL SECTIONS AND DETAILS

GENERAL

STATE OF NEW YORK · GERALD C. HOOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

G-138

GEOTECHNICAL STRUCTURAL NOTES:

GENERAL:

1. THESE NOTES SHALL APPLY TO THE WGS, SOE & WS–SERIES DRAWINGS.
2. CONTRACTOR SHALL CHECK GENERAL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, HVAC, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION NOT INDICATED ON THE GEOTECHNICAL STRUCTURAL DRAWINGS SUCH AS MISCELLANEOUS DETAILS, MATERIALS AND LOCATIONS OF EMBEDDED SLEEVES AND INSERTS, CLEARANCES, OPENINGS IN STRUCTURAL ELEMENTS, ETC.
3. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS WORK, SEE SPECIFICATION SECTION 01420 AND THE STATEMENT OF SPECIAL INSPECTIONS. CONTRACTOR SHALL COOPERATE WITH THE OWNER'S SPECIAL INSPECTION COORDINATOR FOR THE REQUIRED SPECIAL INSPECTIONS.
4. SEISMIC DESIGN CRITERIA:
   A. SEISMIC DESIGN CATEGORY B
   B. SEISMIC IMPORTANCE FACTOR 1.25
   C. MAPPED SPECTRAL RESPONSE ACCELERATIONS: SS = 0.179g, S1 = 0.061g
   D. DESIGN SPECTRAL RESPONSE ACCELERATIONS: SDS = 0.192g, SD1 = 0.096g
   E. SEISMIC RESPONSE COEFFICIENTS:
      IMPULSIVE: CI = 0.192g
      CONVECTIVE: CC = 0.096g
      VERTICAL: CT = 0.192g
   F. RESPONSE MODIFICATION FACTORS: RI = 3.0, RC = 1.0 (HINGED BASE BURIED TANK)
   G. ANALYSIS METHOD: SEISMIC DESIGN OF LIQUID–CONTAINING CONCRETE STRUCTURES, APPENDIX A

EXCAVATION AND FILL:

1. THE BOTTOM OF FOUNDATIONS, INCLUDING WEST CHAMBER INVERT SLAB AND CIP TUNNEL BASE SLAB, DIAPHRAGM WALLS AND COLLAR BEAMS SHALL BEAR ON MUD MAT. FOR EAST CHAMBER INVERT SLAB SEE PLANS.
2. UPON REMOVAL OF GUIDE WALLS (AFTER DIAPHRAGM WALL CONSTRUCTION), PROOF ROLL PERIMETER OF THE CHAMBERS PRIOR TO BACKFILLING THE EXTERIOR SIDES WITH COMPACTED GRANULAR FILL.

CONCRETE:

1. CONCRETE WORK ON THE GEOTECHNICAL/STRUCTURAL DRAWINGS SHALL BE IN ACCORDANCE WITH DIVISION 2 AND DIVISION 3 SPECIFICATIONS.
2. DESIGN STRENGTH (28–DAY COMPRESSIVE STRENGTH):
   A. DIAPHRAGM WALLS – MIX G (5,000 PSI)
   B. COLLAR BEAMS AND STRUTS – MIX F (5,000 PSI)
   C. CAST IN PLACE TUNNELS – 5,000 PSI CONCRETE
   D. CONCRETE WALE BEAMS – 4,000 PSI
   E. CONCRETE DEADMAN – 3,000 PSI
3. STANDARDS:
   A. DESIGN – ACI 318 AND ACI 350, LATEST EDITIONS
   B. DETAILS – ACI 315, LATEST EDITION
   C. CONCRETE MIXTURE ACCEPTANCE – ACI 301, LATEST EDITION
4. REINFORCING:
   A. WELDED WIRE FABRIC – PLAIN: ASTM A185
      DEFORMED: ASTM A497
   B. DEFORMED BARS – ASTM A615, GRADE 60
      ASTM A706, GRADE 60
   C. THREADED BARS – ASTM A615, GRADE 60
   D. BAR MATS – ASTM A184
   E. TIE RODS FOR DEADMAN – ASTM A–722–11 GRADE 150
   F. TIEBACK STRANDS – ASTM A416 GRADE 270
5. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
   B. CONCRETE EXPOSED TO EARTH OR WEATHER: 3 INCHES
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH
      BEAMS, STRUTS – TIES, STIRRUPS: 1 1/2", PRIMARY REINFORCEMENT: 2 1/2"
   D. INSIDE FACE OF SHAFTS (CHAMBERS) AND TUNNELS: 3 INCHES
   E. OUTSIDE FACES EXTERIOR TUNNEL WALLS, INVERT SLAB, STRUT & COLLAR BEAM: 3"
   F. TOP FACE OF TUNNEL ROOF: 2"
6. REINFORCING SPLICES AND DEVELOPMENT:
   A. SEE TABLE ON THIS SHEET FOR DEVELOPMENT LENGTHS.
   B. SPLICES IN REINFORCEMENT SHALL BE STAGGERED AT LEAST 24 INCHES.
   C. LAP SPLICES:
      CLASS A LAP LENGTH = 1.0Ld
      CLASS B LAP LENGTH = 1.3Ld
      ALL LAP SPLICES SHALL BE CLASS B
   D. LAP SPLICES ARE PROHIBITED FOR #14 AND #18 BARS.
   E. MECHANICAL SPLICES SHALL DEVELOP 125% OF THE REINFORCING BAR YIELD STRENGTH.
7. SHEAR TIE DETAIL SHALL BE AS SHOWN ON THIS DRAWING, UNLESS NOTED OTHERWISE.
8. EXPOSED EDGES OF CONCRETE SHALL HAVE A 45 DEGREE, ONE–INCH CHAMFER UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL NOT PLACE ANY CONCRETE PRIOR TO INSPECTION AND ACCEPTANCE OF THE REINFORCING STEEL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CHEMICAL ADHESIVE ANCHOR SYSTEM:

1. POST–INSTALLED CHEMICAL ADHESIVE ANCHOR SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 05505.
2. POST–INSTALLED CHEMICAL ADHESIVE ANCHOR SYSTEM SHALL DEVELOP THE FULL TENSILE YIELD STRENGTH OF THE ANCHORED BAR. MINIMUM EMBEDMENT SHALL BE AS REQUIRED BY THE ICC–ES EVALUATION REPORT, BUT NOT LESS THAN INDICATED ON THE DRAWINGS.

STRUCTURAL STEEL:

1. ALL STEEL SECTIONS SHALL CONFORM TO ASTM 572, GRADE 50.
2. STEEL PIPE STRUTS SHALL HAVE MINIMUM Fy=35 KSI.
3. STEEL PLATES SHALL CONFORM TO ASTM A36 STEEL.

WELDING:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH STRUCTURAL WELDING CODE D1.1
2. WELDING ELECTRODES SHALL CONFORM TO E70XX.

ATTIPULGITE SLAG WALL:

1. REQUIRED STRENGTH OF ATTIPULGITE SLAG WALL: 70 PSI

Table 5-2(b) – Tension Development and Lap Splice Lengths for Bars (ACI 12.2.2)
f'_c = 4,000 psi

BAR SIZE	LAP CLASS	UNCOATED BARS				EPOXY-COATED BARS			
		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		Case 1	Case 2	Case 1	Case 2	Case 1	Case 2	Case 1	Case 2
#3	A	19	28	15	22	24	37	22	32
	B	24	36	19	28	32	47	28	42
#4	A	25	37	19	29	33	49	29	43
	B	32	48	25	37	42	63	37	56
#5	A	31	47	24	36	41	61	36	54
	B	40	60	31	47	53	79	47	70
#6	A	37	56	29	43	49	73	43	64
	B	48	72	37	56	63	95	56	84
#7	A	54	81	42	63	71	106	63	94
	B	70	106	54	81	92	138	81	122
#8	A	62	93	48	71	81	121	71	107
	B	80	121	62	93	105	158	93	139
#9	A	70	105	54	81	91	137	81	121
	B	91	136	70	105	119	178	105	157
#10	A	79	118	61	91	103	154	91	136
	B	102	153	79	118	133	200	118	177
#11	A	87	131	67	101	114	171	101	151
	B	113	170	87	131	148	222	131	196
#14	N/A	105	157	81	121	137	205	121	181
#18	N/A	139	209	107	161	182	273	161	241

Reference Table 5-2(a) Notes.

Table 5-2(c) – Tension Development and Lap Splice Lengths for Bars (ACI 12.2.2)
f'_c = 5,000 psi

BAR SIZE	LAP CLASS	UNCOATED BARS				EPOXY-COATED BARS			
		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		Case 1	Case 2	Case 1	Case 2	Case 1	Case 2	Case 1	Case 2
#3	A	17	25	13	19	22	33	19	29
	B	22	33	17	25	28	42	25	38
#4	A	22	33	17	26	29	44	26	38
	B	29	43	22	33	38	57	33	50
#5	A	28	42	22	32	36	54	32	48
	B	36	54	28	42	47	71	42	62
#6	A	33	50	26	38	44	65	38	58
	B	43	65	33	50	57	85	50	75
#7	A	49	73	37	56	63	95	56	84
	B	63	94	49	73	82	123	73	109
#8	A	55	83	43	64	72	108	64	96
	B	72	108	55	83	94	141	83	124
#9	A	63	94	48	72	82	122	72	108
	B	81	122	63	94	106	159	94	140
#10	A	70	105	54	81	92	138	81	122
	B	91	137	70	105	119	179	105	158
#11	A	78	117	60	90	102	153	90	135
	B	101	152	78	117	133	199	117	175
#14	N/A	94	140	72	108	122	183	108	162
#18	N/A	125	187	96	144	163	244	144	216

Reference Table 5-2(a) Notes.

NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS
2. CASE 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER AND CENTER–TO–CENTER SPACING OF THE BARS, ARE DEFINED AS:
   – BEAMS OR COLUMNS:
      – CASE 1: COVER AT LEAST 1.0 DB AND C/C SPACING AT LEAST 2.0 DB
      – CASE 2: COVER LESS THAN 1.0 DB OR C/C SPACING LESS THAN 2.0 DB
   – ALL OTHERS:
      – CASE 1: COVER AT LEAST1.0 DB AND C/C SPACING AT LEAST 2.0 DB
      – CASE 2: COVER LESS THAN 1.0 DB OR C/C SPACING LESS THAN 3.0 DB
3. INCREASE BAR DEVELOPMENT LENGTH BY 20% IF BENTONITE–BASED SLURRY IS USED INSTEAD OF ATTIPULGITE–BASED SLURRY

STANDARD HOOKS

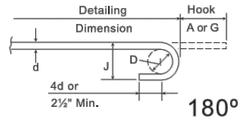
All specific sizes recommended by CRSI below meet minimum requirements of ACI 318.

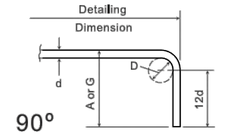
RECOMMENDED END HOOKS

All grades of steel (minimum yield strengths)

D = Finished inside bend diameter
d = Bar diameter

Bar Size	D	180 HOOKS		90 HOOKS
		A or G	J	A or G
#3	2¼"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3¾"	7"	5"	10"
#6	4½"	8"	6"	1'-0"
#7	5¼"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9½"	1'-3"	11¾"	1'-7"
#10	10¾"	1'-5"	1'-1¼"	1'-10"
#11	12"	1'-7"	1'-2¾"	2'-0"
#14	18¼"	2'-3"	1'-9¾"	2'-7"
#18	24"	3'-0"	2'-4½"	3'-5"

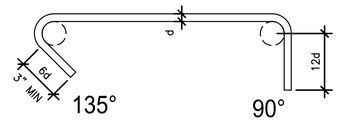




STIRRUP/TIE HOOK DIMENSIONS

Bar Size	D	90 Hook	135 Hook	
		Hook A or G	Hook A or G	H (Approx.)
#3	1½"	4"	4"	2½"
#4	2"	4½"	4½"	3"
#5	2½"	6"	5½"	3¾"
#6	4½"	1'-0"	8"	4½"
#7	5¼"	1'-2"	9"	5¼"
#8	6"	1'-4"	10½"	6"

TYPICAL TIE DETAIL



ABBREVIATIONS:

GENERAL:

B/	BOTTOM OF
BLDG	BUILDING
C/C	CENTER TO CENTER
CONC	CONCRETE
℄	CENTERLINE
EA	EACH
EL	ELEVATION
EQ	EQUAL
EXP	EXPANSION
FF	FINISHED FLOOR
FLR	FLOOR
FND	FOUNDATION
FT	FOOT
FTG	FOOTING
HP	HIGH POINT
HGT	HEIGHT
HORIZ	HORIZONTAL
LP	LOW POINT
LG	LONG
MAX	MAXIMUM
MIN	MINIMUM
MTL	METAL
NS	NON–SHRINK
N/A	NOT APPLICABLE
OC	ON CENTER
S	SLOPE (IN DIRECTION INDICATED)
SHT	SHEET
SP	SPACE(S)
SQ	SQUARE
STD	STANDARD
STL	STEEL
T/	TOP OF
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W/	WITH

CONCRETE:

ALT	ALTERNATE
B	BOTTOM
DB	BAR DIAMETER
CS JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
EE	EACH END
EF	EACH FACE
EW	EACH WAY
H	HORIZONTAL
HEF	HORIZONTAL EACH FACE
HIF	HORIZONTAL INSIDE FACE
HOF	HORIZONTAL OUTSIDE FACE
ISO	ISOLATION
JT	JOINT
LD	DEVELOPMENT LENGTH
LONGIT	LONGITUDINAL
PJ	PANEL JOINT
REINF	REINFORCEMENT
STRP	STIRRUP
T	TOP
T&B	TOP AND BOTTOM
TRANSV	TRANSVERSAL
V	VERTICAL
VEF	VERTICAL EACH FACE
VIF	VERTICAL INSIDE FACE
VOF	VERTICAL OUTSIDE FACE
WWF	WELDED WIRE FABRIC
IF	INSIDE FACE
OF	OUTSIDE FACE

STEEL:

P	PLATE
C	CHANNEL
COL	COLUMN
GALV	GALVANIZED
HSS	HOLLOW STRUCTURAL SECTION
L	ANGLE
TOS	TOP OF STEEL
W	WIDE–FLANGE

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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DATE: 05/16 PER: RCF

Jett Industries, Inc.
PO Box 219 - Colliersville, New York 13747
Phone: (607) 433-2100 Fax: (607)433-2430
Heavy & Highway Contractors
Sitework - Concrete - Utilities - Pre-Engineered Buildings

WEIDLINGER ASSOCIATES INC®
Consulting Engineers
201 Broadway, Cambridge MA 02139
®(617)374–0000 fax:(617)374–0010

DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	2
02/27/12		1

DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK – G. CHEN – No. 083742 – LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY – DWEP
CLINTON CSO STORAGE FACILITY

GENERAL NOTES, SCHEDULES AND ABBREVIATIONS

CONTRACT No.
SCALE: NTS
DATE: 12/08/11
DRAWING NO. WGS–001

PROPOSED SEQUENCE OF CONSTRUCTION:

1. PRE–EXCAVATE AND REMOVE KNOWN OBSTRUCTIONS
2. SURVEY AND LAYOUT LOCATIONS OF CHAMBERS, AS/SP WALL, CONVEYANCES, ETC.

WEST CHAMBER AND OVERFLOW STRUCTURE

1. PRE–EXCAVATE THE AREA IN THE WEST CHAMBER TO ELEVATION 387
2. PLACE GUIDE WALLS FOR STRUCTURAL DIAPHRAGM WALL (SLURRY WALL) CONSTRUCTION
3. EXCAVATE AND PLACE DIAPHRAGM WALLS
4. REMOVE THE GUIDE WALLS AND BACKFILL AS REQUIRED
5. INSTALL JET GROUT PLUG, SEALS BETWEEN DIAPHRAGM WALLS AND AS/SP WALLS
6. PERFORM DRAWDOWN TEST
7. INSTALL SHEET PILES FOR THE OUTFALL AND 84?CONVEYANCE
8. INSTALL 84" CONVEYANCE
9. INSTALL INCLINOMETERS
10. PLACE PORTION OF THE COLLAR BEAM OVER THE DIAPHRAGM WALL, WITH THE EXCEPTION OF AREA ABOVE CAST IN PLACE EAST WALL.
11. EXCAVATE TO 2' BELOW THE FIRST LEVEL OF BRACING IN THE WEST CHAMBER AND OUTFALL STRUCTURE CONCURRENTLY
    a. EXCAVATE NORTH AND SOUTH EXTERIOR OF DIAPHRAGM WALL TO EL 382 WITH INTERIOR EXCAVATION
12. INSTALL FIRST LEVEL OF BRACING AND TIEBACKS
13. INSTALL MICROPILES IN THE OUTFALL STRUCTURE
14. BUILD OUTFALL STRUCTURE
15. EXCAVATE 2' BELOW THE SECOND LEVEL OF BRACING
16. MICROTUNNEL 36" SEWER
17. INSTALL SECOND LEVEL OF BRACING
18. EXCAVATE TO INVERT OF CHAMBER
19. INSTALL INVERT SLAB
20. INSTALL CAST IN PLACE EAST WALL OF WEST CHAMBER, INCLUDING THE WEST END SECTION OF THE TUNNEL, WHICH MUST BE CONSTRUCTED IN THEIR ENTIRETY PRIOR TO PROCEEDING TO STEP 21.
21. BACKFILL EAST WALL
22. COMPLETE THE COLLAR BEAM ON THE CAST IN PLACE WALL
23. INSTALL PERMANENT STRUT
24. ONCE COLLAR BEAM AND STRUT HAVE ACHIEVED 28 DAY STRENGTH – REMOVE LEVEL 1 AND LEVEL 2 INTERNAL BRACING AND DETENSION TIEBACKS.
25. REMOVE OUTFALL SHEET PILES
26. BACKFILL REMAINDER OF STRUCTURE
27. REPAIR ANY LEAKS
28. INSTALL SHOTCRETE LINING
29. INSTALL INTERIOR CHAMBER CAST IN PLACE CONCRETE

CUT AND COVER SECTION

1. CUT EXISTING GRADE TO ELEVATION 388
2. EXCAVATE AND PLACE SOLDIER PILES IN THE AS/SP WALL
3. JET GROUT BETWEEN THE AS/SP WALLS
4. PERFORM DRAWDOWN TESTS ON THE SECTIONS OF THE CUT AND COVER SECTIONS
5. INSTALL CONCRETE DEADMEN
6. INSTALL INCLINOMETERS
7. EXCAVATE 2' BELOW THE FIRST LEVEL OF BRACING
8. INSTALL TIERODS CONNECTING THE AS/SP WALL TO THE DEADMEN WALL
    a. EASTERN END WILL RECEIVE A CONCRETE WALER AND STRUTS IN PLACE OF TIERODS AND DEADMEN– WALER AND DEADMEN MUST REACH 75% STRENGTH PRIOR TO PROCEEDING
9. PRELOAD THE TIERODS TO 50–58 KIPS
10. EXCAVATE 2' BELOW SECOND LEVEL OF BRACING
11. SET STRUTS BETWEEN THE CAST IN PLACE WALER
12. PLACE THE WALER – CASTING THE STRUTS IN PLACE
13. ONCE WALER ACHIEVES 3,000PSI COMPRESSIVE STRENGTH – EXCAVATE TO FINAL GRADE AND PLACE MUD MAT
14. PLACE BASE SLAB OF BOX CULVERT
15. PLACE CAST IN PLACE BOX CULVERT
16. ONCE THE BOX ROOF HAS ACHIEVED 4,000 PSI STRENGTH – REMOVE LEVEL TWO STRUTS
17. INSTALL COLUMNS ON THE WEST SIDE TO SUPPORT THE FUTURE BUILDING
18. CONSTRUCT STORMWATER HOLDING TANK ON THE EAST SIDE
19. INSTALL 3 EGRESS MANHOLES IN THE CENTER OF THE BOX CULVERT
20. BACKFILL TO FIRST LEVEL OF BRACING
21. REMOVE FIRST LEVEL OF BRACING AS NEEDED TO ACCOMMODATE OTHER WORK, AND RELEASE TIE RODS.
22. COMPLETE BACKFILL ON THE STRUCTURE AND INSTALL GROUNDWATER PORTS IN AS/SP WALL

EAST CHAMBER AREA

1. PRE–EXCAVATE THE AREA IN THE EAST CHAMBER TO ELEVATION 386
2. PLACE GUIDE WALLS FOR EAST CHAMBER STRUCTURAL DIAPHRAGM WALL (SLURRY WALL) CONSTRUCTION
3. EXCAVATE AND PLACE EAST CHAMBER DIAPHRAGM WALLS
4. REMOVE THE GUIDE WALLS AND BACKFILL AS REQUIRED
5. INSTALL JET GROUT PLUG BETWEEN DIAPHRAGM WALLS AND AS/SP WALL
6. PERFORM DRAWDOWN TEST IN THE EAST CHAMBER
7. INSTALL SHEET PILES FOR 96" CONVEYANCE
8. INSTALL INCLINOMETERS
9. PLACE PORTION OF THE COLLAR BEAM OVER THE DIAPHRAGM WALL, WITH THE EXCEPTION OF THE AREA ABOVE THE CAST IN PLACE WEST WALL.
10. INSTALL 96" CONVEYANCE
11. EXCAVATE TO 2' BELOW THE FIRST LEVEL OF BRACING
12. INSTALL THE FIRST LEVEL OF BRACING INCLUDING TIEBACKS
13. EXCAVATE TO THE INVERT OF THE CHAMBER
14. PLACE A 6" STONE BEDDING
15. PLACE THE INVERT SLAB
16. PLACE THE CAST IN PLACE WEST WALL OF EAST CHAMBER, INCLUDING THE EAST SECTION OF TUNNEL, WHICH MUST BE CONSTRUCTED IN THEIR ENTIRETY, PRIOR TO PROCEEDING TO STEP 17.
17. COMPLETE THE COLLAR BEAM ON THE CAST IN PLACE WALL
18. INSTALL THE PERMANENT STRUT
19. ONCE STRUT AND COLLAR BEAM HAVE MET 28 DAY STRENGTH – REMOVE THE LEVEL 1 BRACING AND DETENSION TIEBACKS
20. BACKFILL THE REMAINDER OF THE STRUCTURE
21. REPAIR ANY LEAKS
22. INSTALL SHOTCRETE LINING
23. INSTALL INTERIOR CHAMBER CAST IN PLACE CONCRETE

NOTES:

A. EXCAVATION SHALL PROCEED 2' BELOW THE LEVEL OF BRACING.
B. DEADMEN FOR THE AS/SP WALL MAY BE CONSTRUCTED INDEPENDENTLY OF THE AS/SP WALL.
C. DEWATERING SHALL BE 2' BELOW THE EXCAVATED SUBGRADE.
D. DIFFERENTIAL EXCAVATION SHALL BE A MAXIMUM OF 2' BETWEEN OUTFALL AND WEST CHAMBER.
E. AS CHAMBER EXCAVATION PROCEEDS REMOVE DIAPHRAGM WALL PROTRUSIONS AND REPAIR DEFICIENT SECTIONS. SEAL ANY LEAKS AS NECESSARY.
F. THERE WILL BE INTERFACE BETWEEN WEST CHAMBER, CUT AND COVER AND EAST CHAMBER ITEMS. THE STEPS IN PROPOSED SEQUENCE OF CONSTRUCTION SHOW THE STEP BY STEP PROCESS OF EACH ITEM.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

Jett Industries, Inc.
PO Box 219 - Colliersville, New York 13747
Phone: (607) 433-2100 Fax: (607)433-2430
Heavy & Highway Contractors
Sitework - Concrete - Utilities - Pre-Engineered Buildings

WEIDLINGER ASSOCIATES INC®
Consulting Engineers
201 Broadway, Cambridge MA 02139
®(617)374–0000 fax:(617)374–0010

DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	2
02/27/12		1

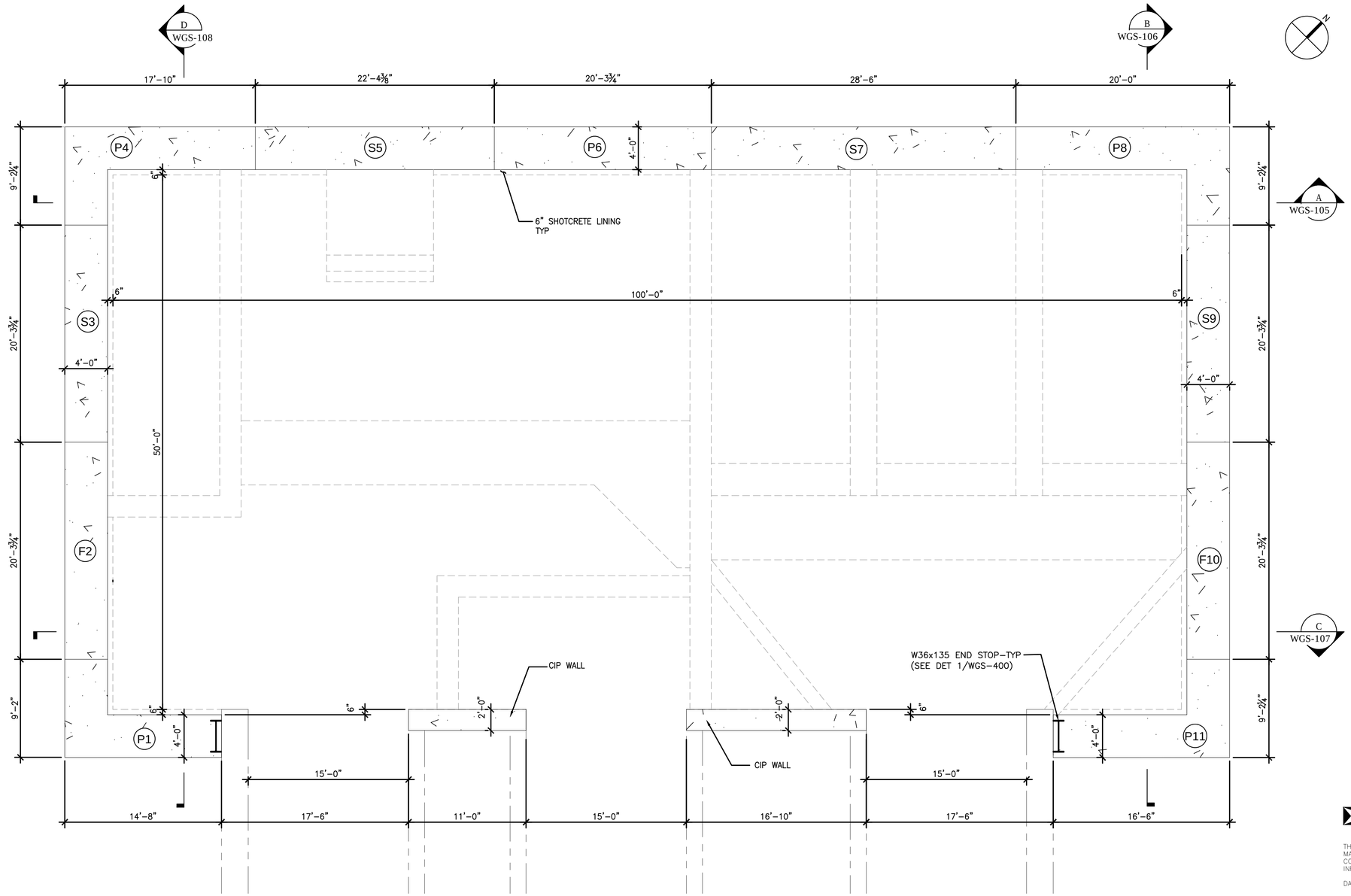
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK – G. CHEN – No. 083742 – LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY – DWEP
CLINTON CSO STORAGE FACILITY

PROPOSED GENERAL
SEQUENCE OF CONSTRUCTION

CONTRACT No.
SCALE: NTS
DATE: 12/20/11
DRAWING NO. WGS–002



PLAN @ EL 347.0 (A)

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

NOTES:
1. FOR GENERAL LAYOUT SEE WGS-301.
2. FOR INTERNAL WALLS LAYOUT, DIMENSIONS AND REINFORCING SEE STRUCTURAL DRAWINGS.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	5
02/27/12		4
02/07/12		3
12/08/11		2
10/31/11	REVISED AS NOTED	1

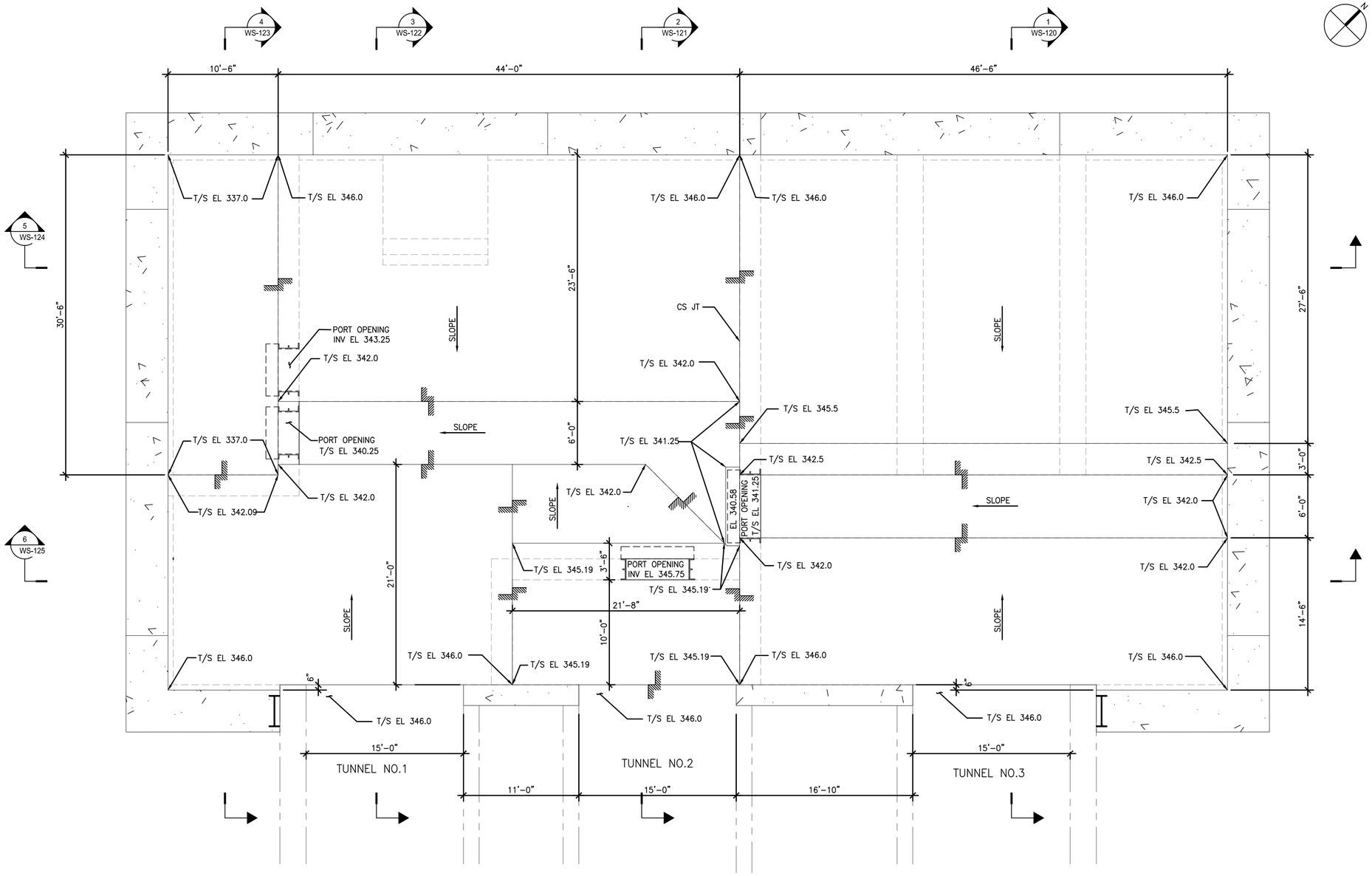
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · GE-CHEN · No. 083742 · LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY – DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER – PLAN @ EL 347.0

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-101



PLAN (A)

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

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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NOTES:
1. FOR GENERAL LAYOUT SEE WGS-301.
2. FOR INTERNAL WALLS LAYOUT, DIMENSIONS AND REINFORCING SEE STRUCTURAL DRAWINGS.
3. ANY ADDITIONAL CONSTRUCTION JOINTS NEEDED TO FACILITATE CONSTRUCTION WILL BE SUBMITTED TO WAI AND ENGINEER FOR APPROVAL AND WILL BE INCLUDED ON AS-BUILT DRAWINGS.
4. REFER TO STRUCTURAL AND MECHANICAL DRAWINGS FOR REQUIRED CONCRETE FILL.

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DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
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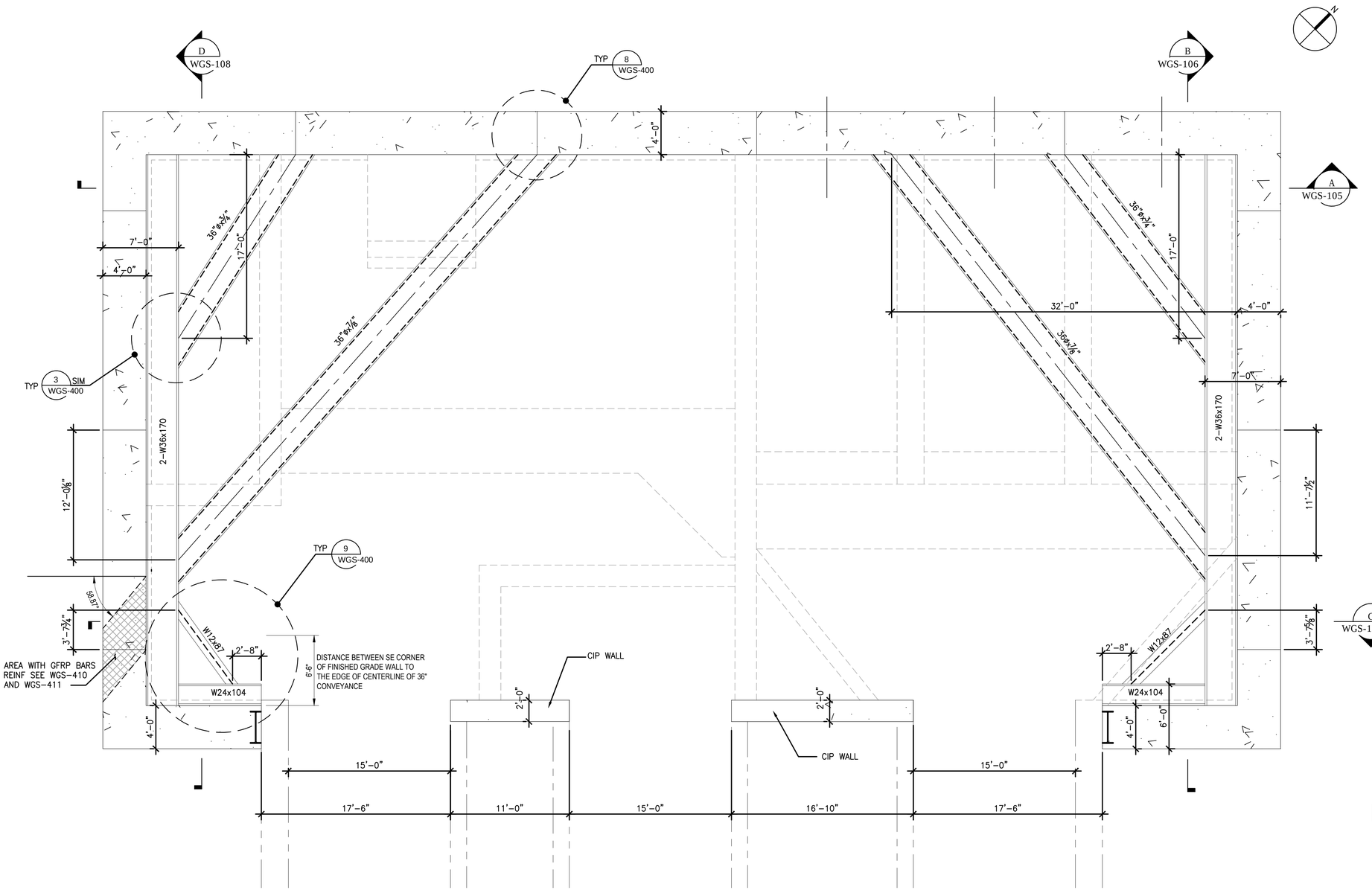
APPROVED BY: G. CHEN

STATE OF NEW YORK — GE CHEN — No. 083742 — LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER - INVERT SLAB PLAN

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 02/06/12
DRAWING NO. WGS-101A



PLAN @ EL 352.0 (A)

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

NOTES:
1. FOR GENERAL LAYOUT SEE WGS-301.
2. FOR INTERNAL WALLS LAYOUT, DIMENSIONS AND REINFORCING SEE STRUCTURAL DRAWINGS.
3. WALER AND INTERNAL BRACING SHOWN ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	5
02/27/12		4
02/07/12		3
12/08/11		2
10/31/11	REVISED AS NOTED	1

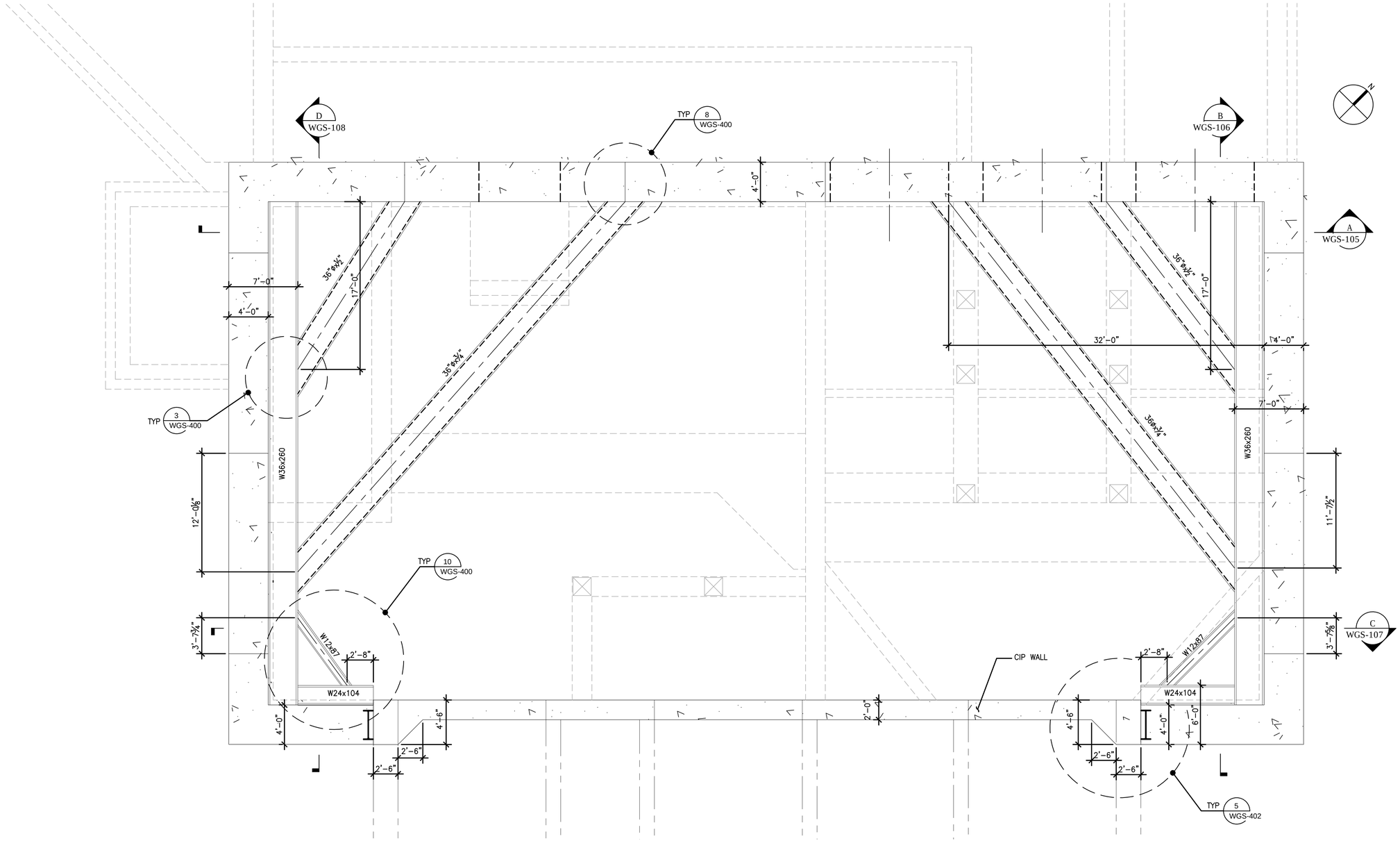
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK — GE CHEN — No. 083742 — LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER - PLAN @ EL 352.0

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-102



PLAN @ EL 371.0 (A)

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

NOTES:
1. FOR GENERAL LAYOUT SEE WGS-301.
2. FOR INTERNAL WALLS LAYOUT, DIMENSIONS AND REINFORCING SEE STRUCTURAL DRAWINGS.
3. WALER AND INTERNAL BRACING SHOWN ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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03/23/12	CHANGE ORDER NO. 1	5
02/27/12		4
02/07/12		3
12/08/11		2
10/31/11	REVISED AS NOTED	1

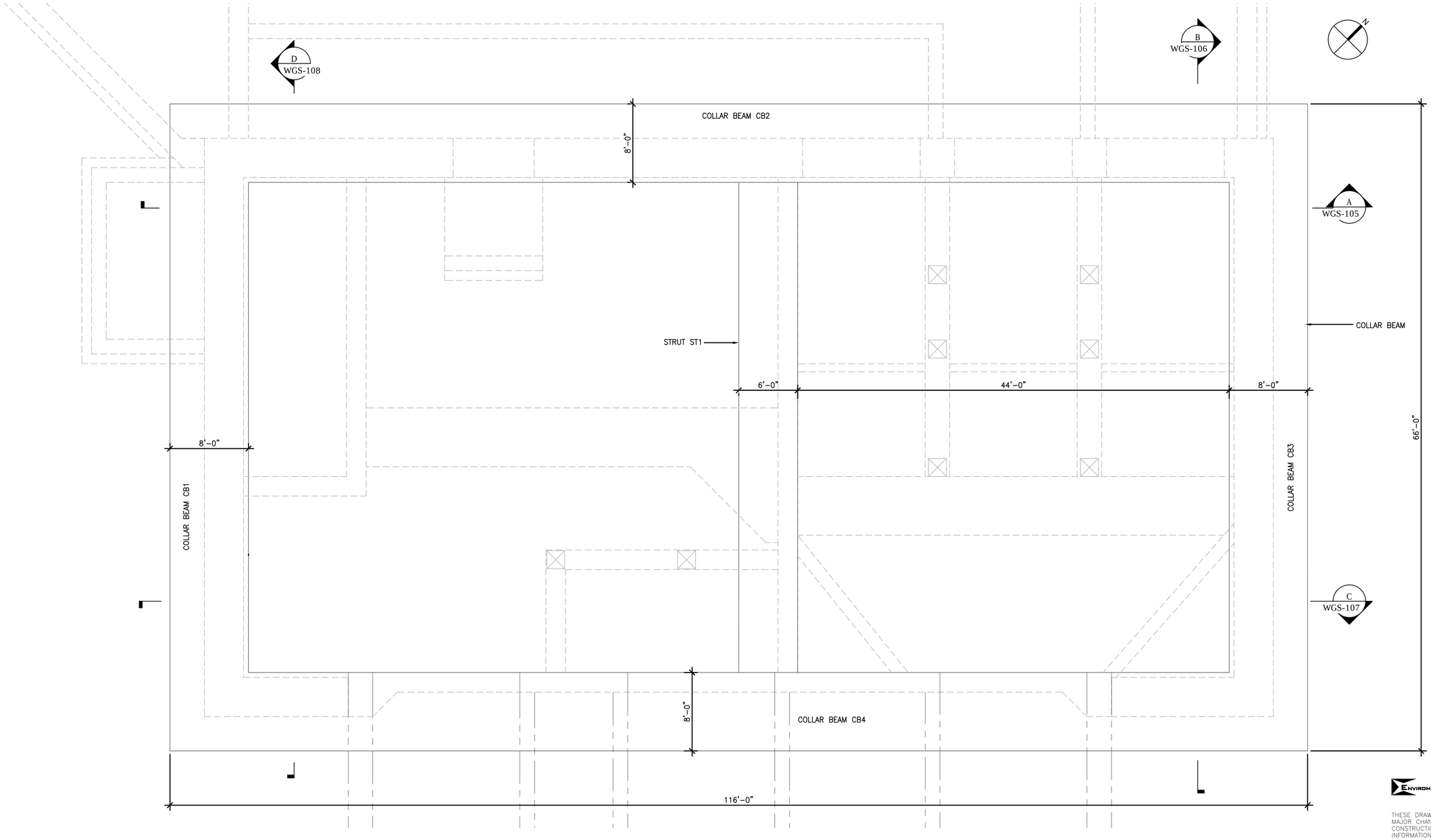
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK — GE CHEN — No. 083742 — LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY – DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER – PLAN @ EL 371.0

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-103



PLAN @ EL 391.0 (A)

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

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

NOTES:
1. FOR COLLAR BEAMS AND STRUT REINFORCING SEE DWG. WGS-109.
2. ANY ADDITIONAL CONSTRUCTION JOINTS NEEDED TO FACILITATE CONSTRUCTION WILL BE SUBMITTED TO WAI AND ENGINEER FOR APPROVAL AND WILL BE INCLUDED ON AS-BUILT DRAWINGS.

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	4
02/27/12		3
02/07/12		2
12/08/11		1

DESIGNED BY: H. AWAL
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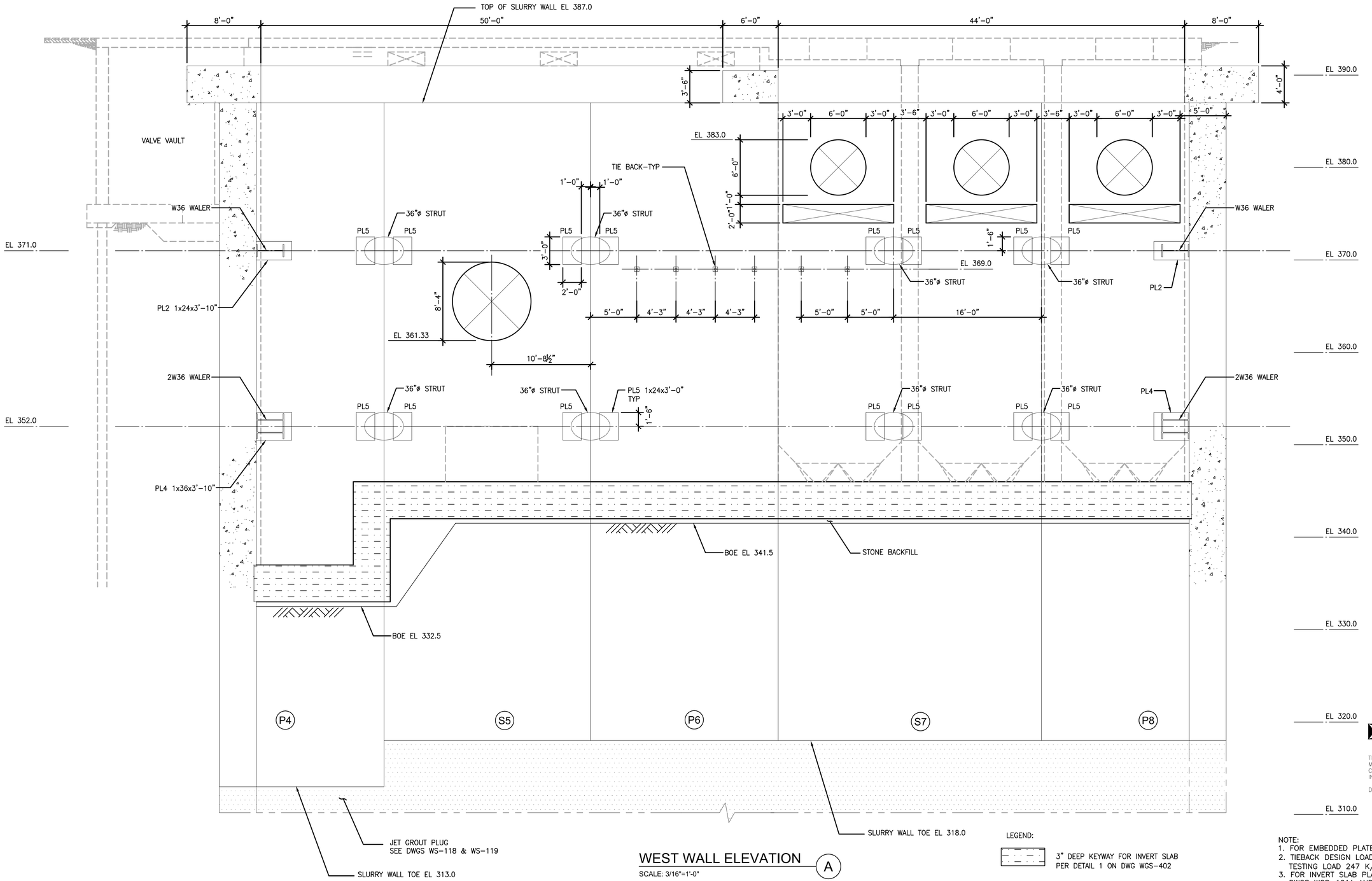
STATE OF NEW YORK · GE CHEN · No. 083742 · LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER - PLAN @ EL 391.0

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-104



WEST WALL ELEVATION — A

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

LEGEND:

3" DEEP KEYWAY FOR INVERT SLAB PER DETAIL 1 ON DWG WGS-402

NOTE:
1. FOR EMBEDDED PLATE DETAILS SEE WGS-401
2. TIEBACK DESIGN LOAD SHALL BE 190 K/TIEBACK TESTING LOAD 247 K/TIEBACK AND LOCKOFF LOAD 152 K.
3. FOR INVERT SLAB PLAN AND SECTIONS, REFER TO DWGS WGS-101A AND WS-120 THRU WS-125.
4. WALER, TIEBACK AND INTERNAL BRACING SHOWN ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	6
02/27/12		5
02/07/12		4
12/08/11		3
10/31/11	REVISED AS NOTED	2

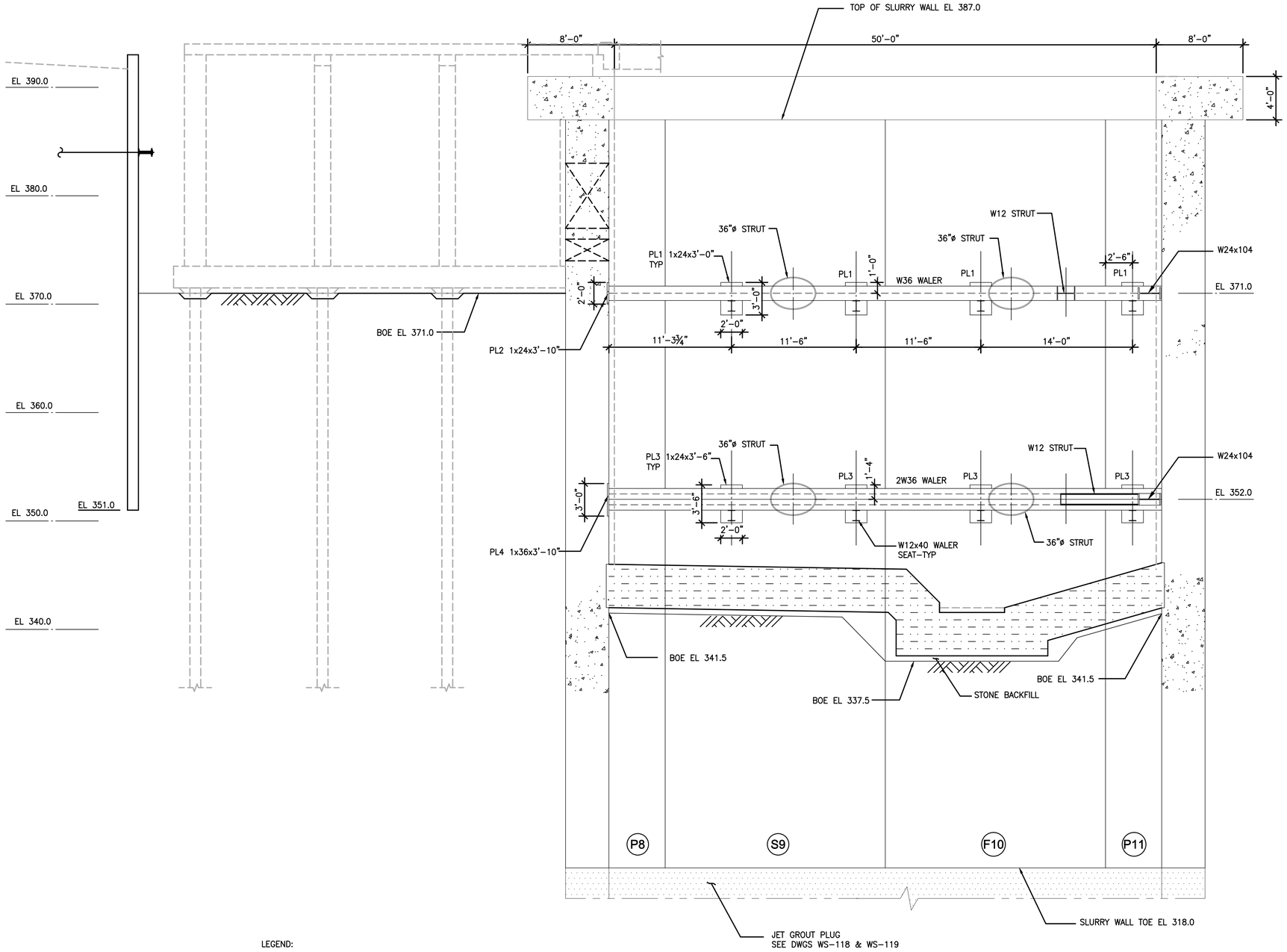
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK — G. CHEN — No. 083742 — LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY – DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER – WEST WALL ELEVATION

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-105



LEGEND:

3" DEEP KEYWAY FOR INVERT SLAB PER DETAIL 1 ON DWG WGS-402

NORTH WALL ELEVATION B

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

NOTE:
1. FOR EMBEDDED PLATE DETAILS SEE WGS-401
2. FOR INVERT SLAB PLAN AND SECTIONS, REFER TO DWGS WGS-101A AND WS-120 THRU WS-125.
3. WALER AND INTERNAL BRACING SHOWN ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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03/23/12	CHANGE ORDER NO. 1	6
02/27/12		5
02/07/12		4
12/08/11		3
10/31/11	REVISED AS NOTED	2

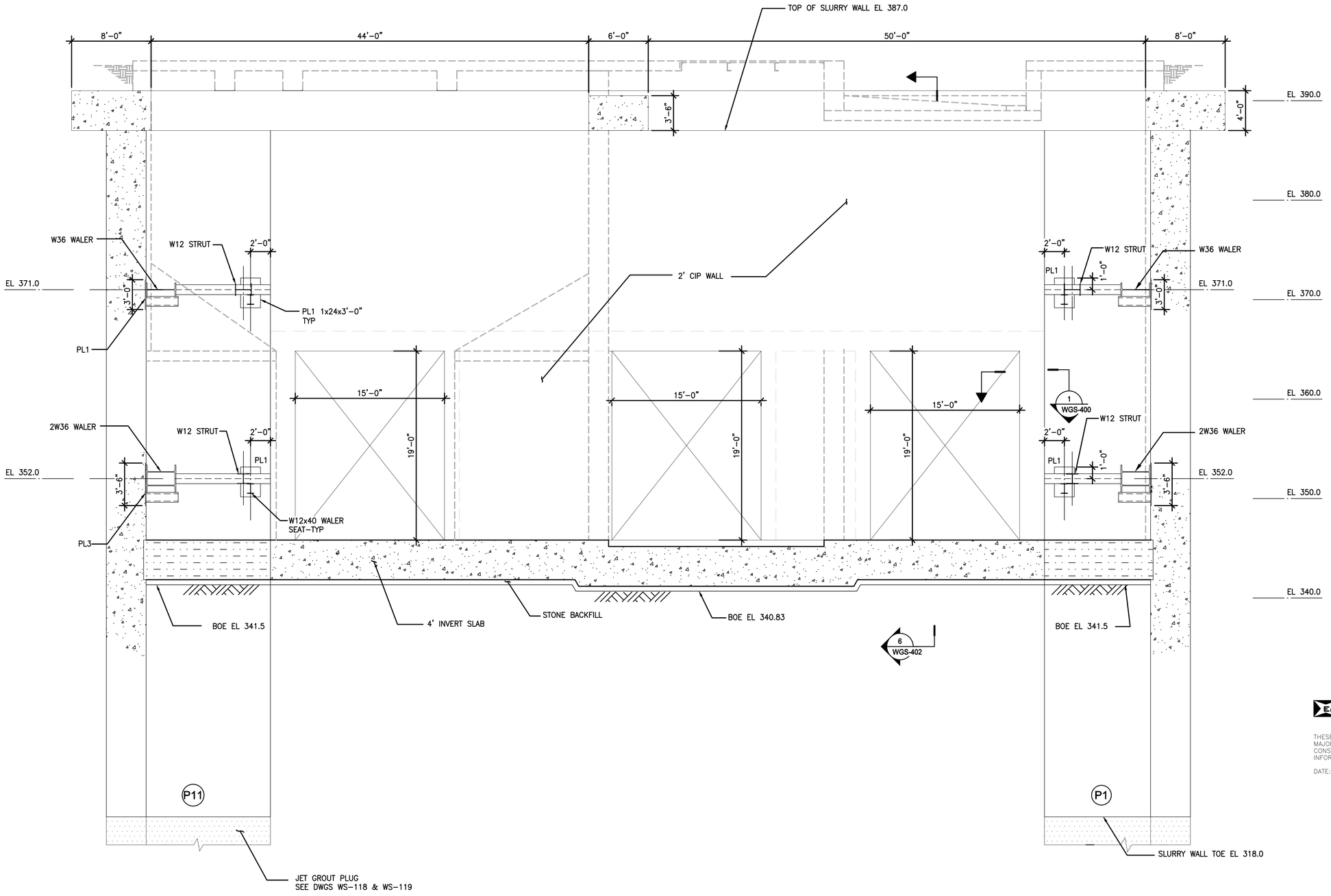
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK — GE CHEN — NO. 083742 — LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER - NORTH WALL ELEVATION

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-106



LEGEND:

3" DEEP KEYWAY FOR INVERT SLAB PER DETAIL 1 ON DWG WGS-402

EAST WALL ELEVATION (C)

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

NOTE:
1. FOR EMBEDDED PLATE DETAILS SEE WGS-401
2. FOR INVERT SLAB PLAN AND SECTIONS, REFER TO DWGS WGS-101A AND WS-120 THRU WS-125.
3. WALER AND INTERNAL BRACING SHOWN ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	5
02/27/12		4
02/07/12		3
12/08/11		2
10/31/11	REVISED AS NOTED	1

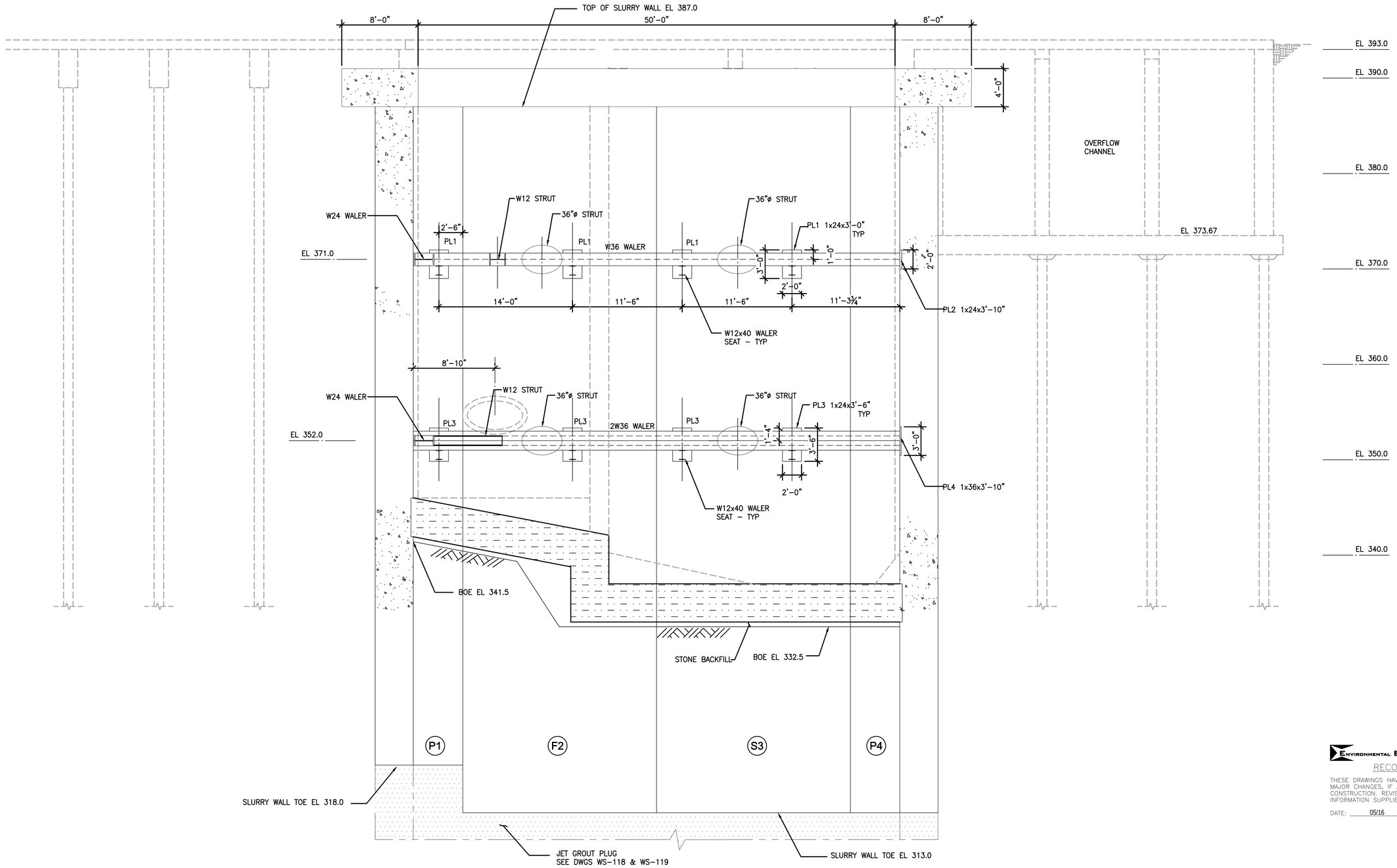
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK — SE CHEN — No. 083742 — LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY – DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER – EAST WALL ELEVATION

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-107



LEGEND:

3" DEEP KEYWAY FOR INVERT SLAB PER DETAIL 1 ON DWG WGS-402

SOUTH WALL ELEVATION (D)

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

NOTE:
1. FOR EMBEDDED PLATE DETAILS SEE WGS-401
2. FOR INVERT SLAB PLAN AND SECTIONS, REFER TO DWGS WGS-101A AND WS-120 THRU WS-125.
3. WALER AND INTERNAL BRACING SHOWN ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

Jett Industries, Inc.
PO Box 219 - Colliersville, New York 13747
Phone: (607) 433-2100 Fax: (607)433-2430
Heavy & Highway Contractors
Sitework - Concrete - Utilities - Pre-Engineered Buildings

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201 Broadway, Cambridge MA 02139
®(617)374-0000 fax:(617)374-0010

DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	6
02/27/12		5
02/07/12		4
12/08/11		3
10/31/11	REVISED AS NOTED	2

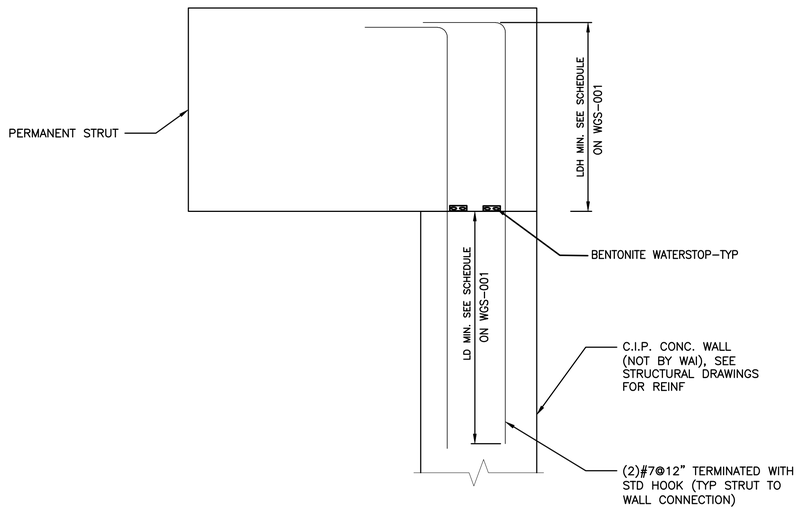
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · GE CHEN · No. 083742 · LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

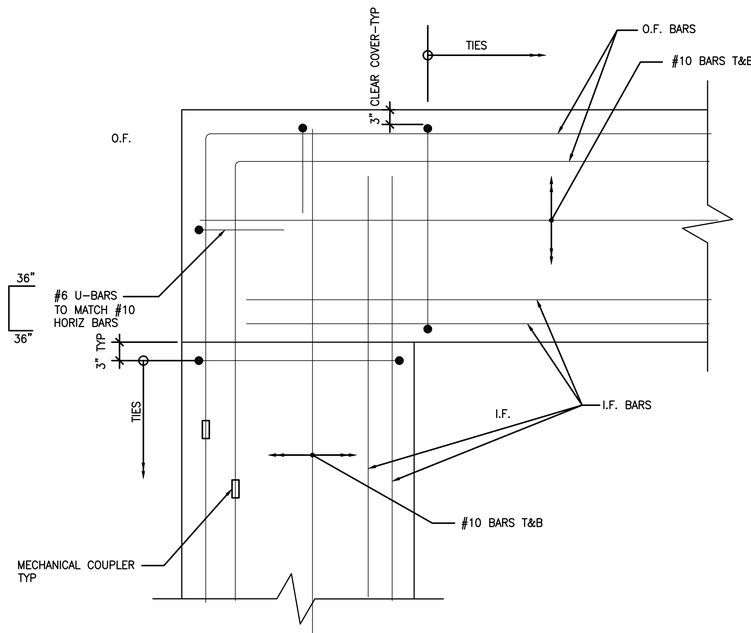
WEST CHAMBER - SOUTH WALL ELEVATION

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-108



STRUT/C.I.P. CONC. WALL CONNECTION DETAIL

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



TYPICAL COLLAR BEAM CORNER DETAIL

N.T.S.

COLLAR BEAM REINFORCEMENT SCHEDULE

WEST CHAMBER

TYPE	INSIDE FACE	OUTSIDE FACE	STIRRUPS/TIES
CB1	(18) #14 CONT.	(30) #14 CONT.	(6) #6@6"
CB2	(18) #14 CONT.	(30) #14 CONT.	(6) #6@6"
CB3	(11) #14 CONT.	(22) #14 CONT.	(6) #6@6"
CB4	(12) #14 CONT.	(22) #14 CONT.	(6) #6@6"

EAST CHAMBER

TYPE	INSIDE FACE	OUTSIDE FACE	STIRRUPS/TIES
CB5	(8) #9 CONT.	(8) #11 CONT.	(3) #6@12"
CB6	(18) #11 CONT.	(21) #11 CONT.	(4) #6@12"

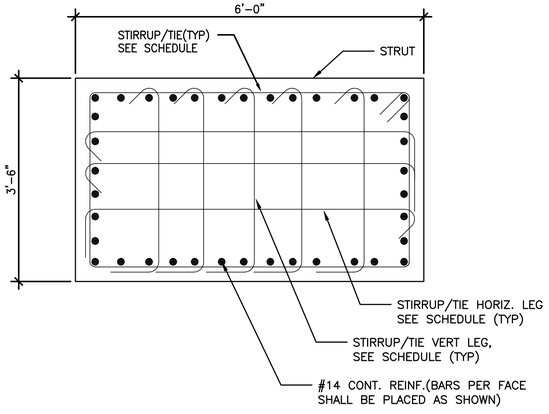
STRUT REINFORCEMENT SCHEDULE

WEST CHAMBER

	CONT.	STIRRUPS/TIES
ST1	(38) #14	#4@18" W/(7) VERT. LEGS, (5) HORIZ. LEGS

EAST CHAMBER

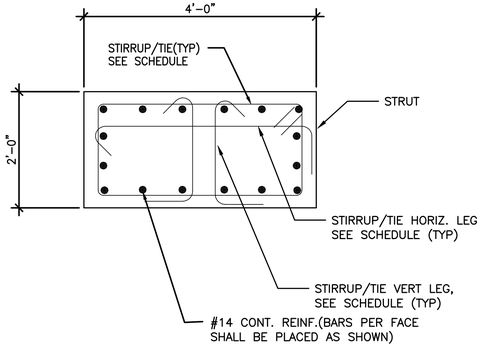
ST2	(16) #14	#4@18" W/(4) VERT. LEGS, (3) HORIZ. LEGS



STRUT ST1 REINFORCEMENT

N.T.S.

NOTE:
1. MAIN REINF BARS OF STRUT SHALL BE EXTENDED INTO COLLAR BEAMS WITH DEVELOPMENT LENGHT.(SEE WGS-001)



STRUT ST2 REINFORCEMENT

N.T.S.

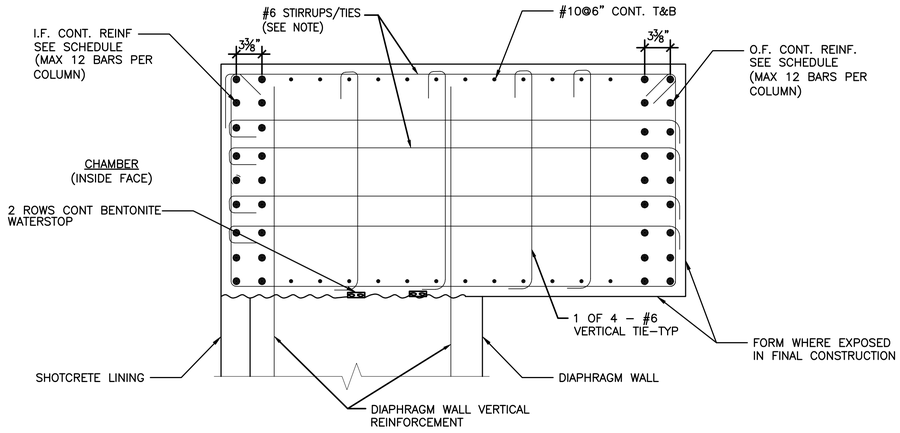
NOTE:
1. MAIN REINF BARS OF STRUT SHALL BE EXTENDED INTO COLLAR BEAMS WITH DEVELOPMENT LENGHT. (SEE WGS-001)

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: _____



NOTE: FOR TOTAL NUMBER OF HORIZONTAL LEGS (STIRRUPS+TIES) SEE SCHEDULE

TYPICAL COLLAR BEAM REINFORCEMENT

N.T.S.

05/16 RCF

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®(617)374-0000 fax:(617)374-0010

DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	3
02/27/12		2
02/07/12		1

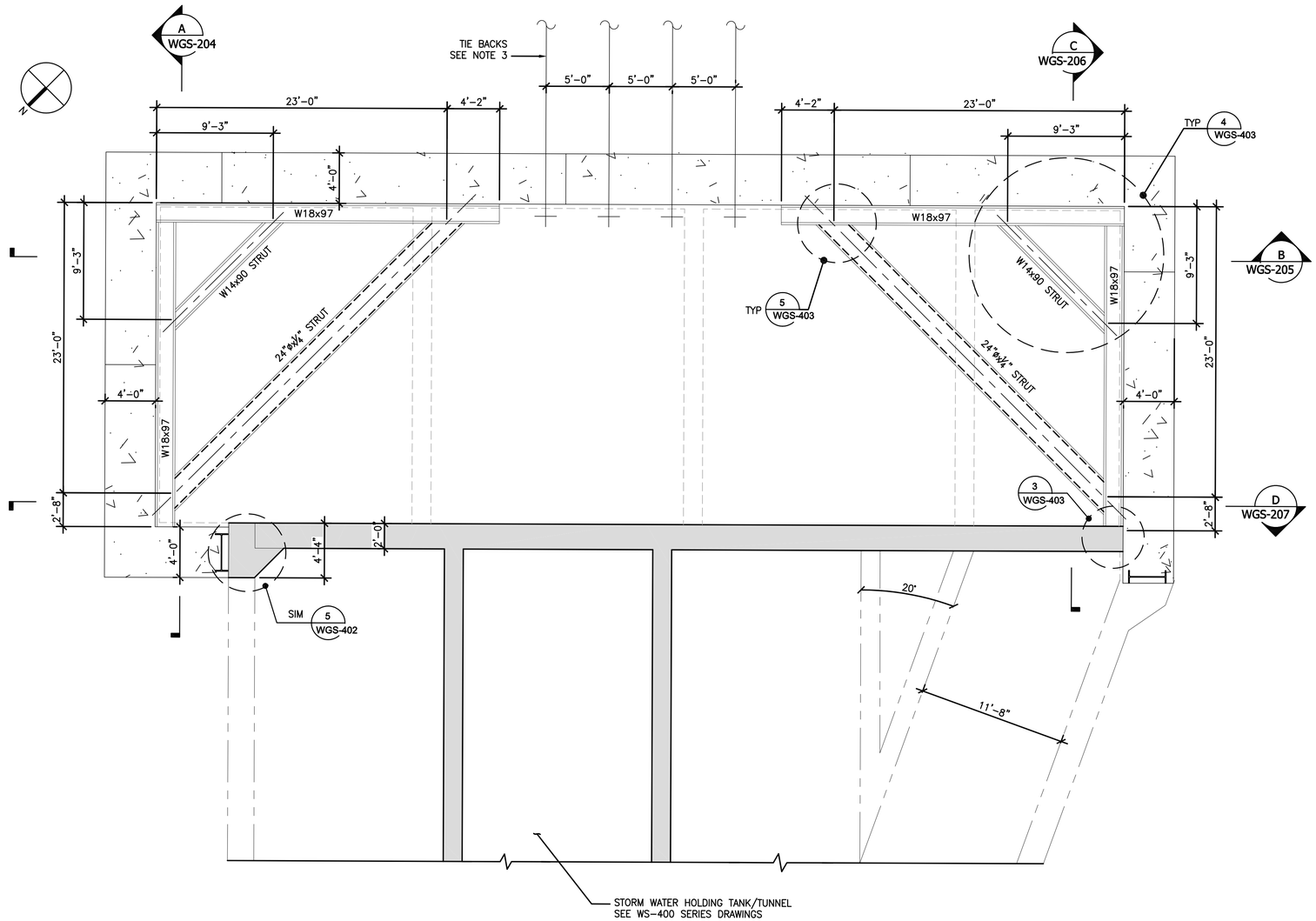
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · G. CHEN · No. 083742 · LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

COLLAR BEAM AND STRUT DETAILS

CONTRACT No.
SCALE: AS SHOWN
DATE: 12/08/11
DRAWING NO. WGS-109



PLAN @ EL 374.0 (A)

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

NOTES:
1. FOR GENERAL LAYOUT SEE WGS-302.
2. FOR INTERNAL WALLS LAYOUT, DIMENSIONS AND REINFORCING SEE STRUCTURAL DRAWINGS.
3. TIEBACKS DESIGN LOADS SHALL BE 125 K/TIEBACK. LOCK OFF LOAD SHALL BE 100 K/TIEBACK AND TESTING LOAD 163 K/TIEBACK.
4. WALER, TIE-BACK AND INTERNAL BRACING SHOWN ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	4
02/27/12		3
01/27/12		2
12/15/11		1

DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

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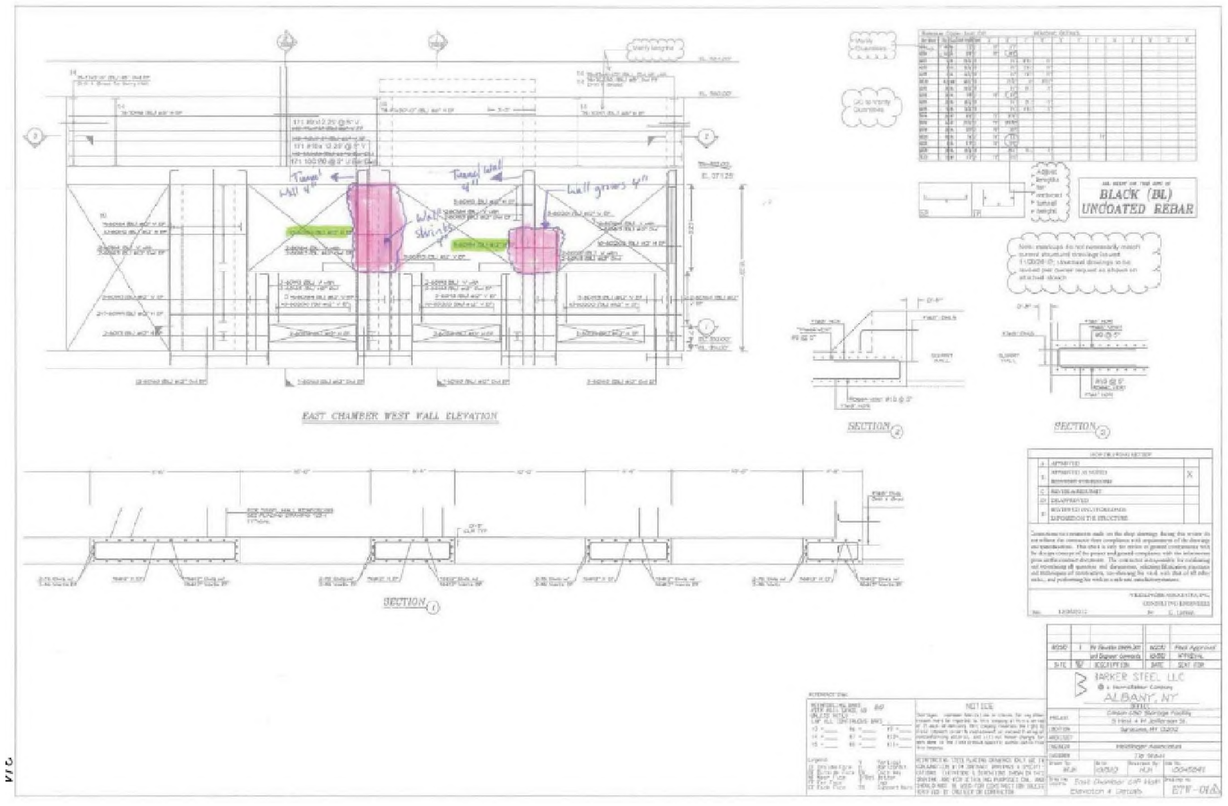
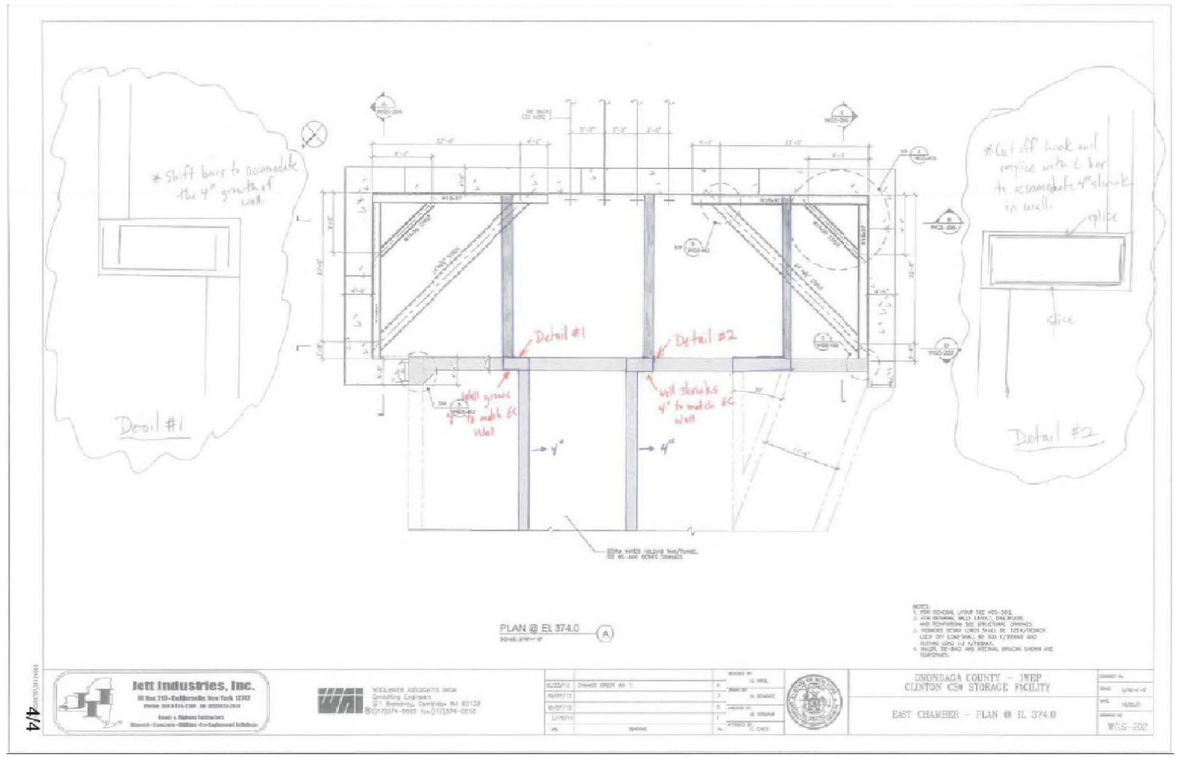
ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - PLAN @ EL 374.0

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-202





4/4

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

NOTES:
1. FOR GENERAL LAYOUT SEE WGS-302.
2. FOR INTERNAL WALLS LAYOUT, DIMENSIONS AND REINFORCING SEE STRUCTURAL DRAWINGS.
3. TIEBACKS DESIGN LOADS SHALL BE 125 K/TIEBACK. LOCK OFF LOAD SHALL BE 100 K/TIEBACK AND TESTING LOAD 163 K/TIEBACK.
4. WALER, TIE-BACK AND INTERNAL BRACING SHOWN ARE TEMPORARY.

G:\PROJECTS\21124066

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	4
02/27/12		3
03/29/12		2
01/25/111		1

DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

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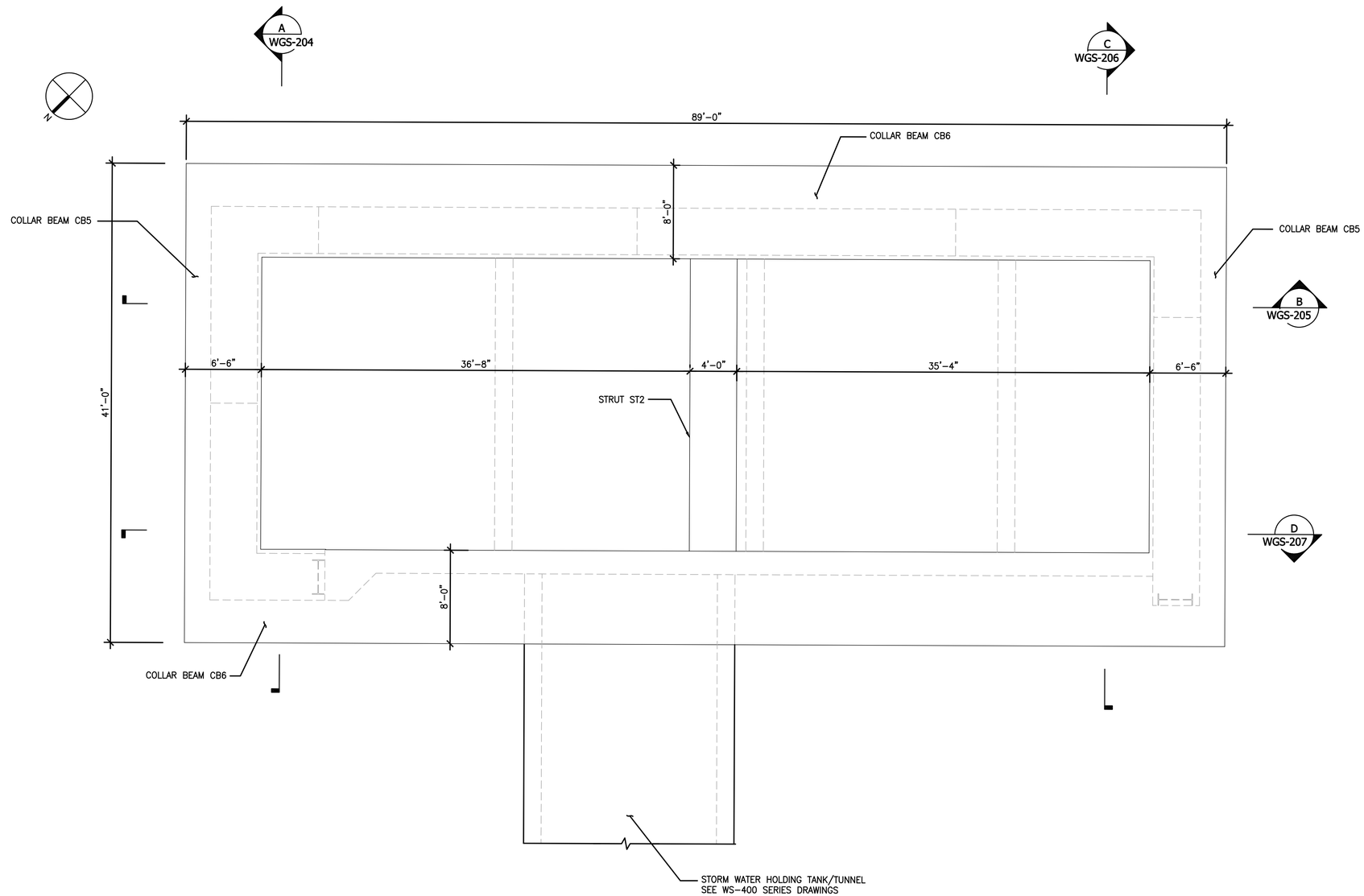
ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - PLAN @ EL 374.0
RECORD DRAWING MARKUPS

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-202A



PLAN @ EL 384.0 (A)

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

NOTES:
1. FOR GENERAL LAYOUT SEE WGS-302.
2. FOR INTERNAL WALLS LAYOUT, DIMENSIONS AND REINFORCING SEE STRUCTURAL DRAWINGS.
3. FOR COLLAR BEAMS AND STRUT REINFORCING SEE WGS-109.
4. ANY ADDITIONAL CONSTRUCTION JOINTS NEEDED TO FACILITATE CONSTRUCTION WILL BE SUBMITTED TO WAI AND ENGINEER FOR APPROVAL AND WILL BE INCLUDED ON AS-BUILT DRAWINGS.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

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®(617)374-0000 fax:(617)374-0010

DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	3
02/27/12		2
12/15/11		1

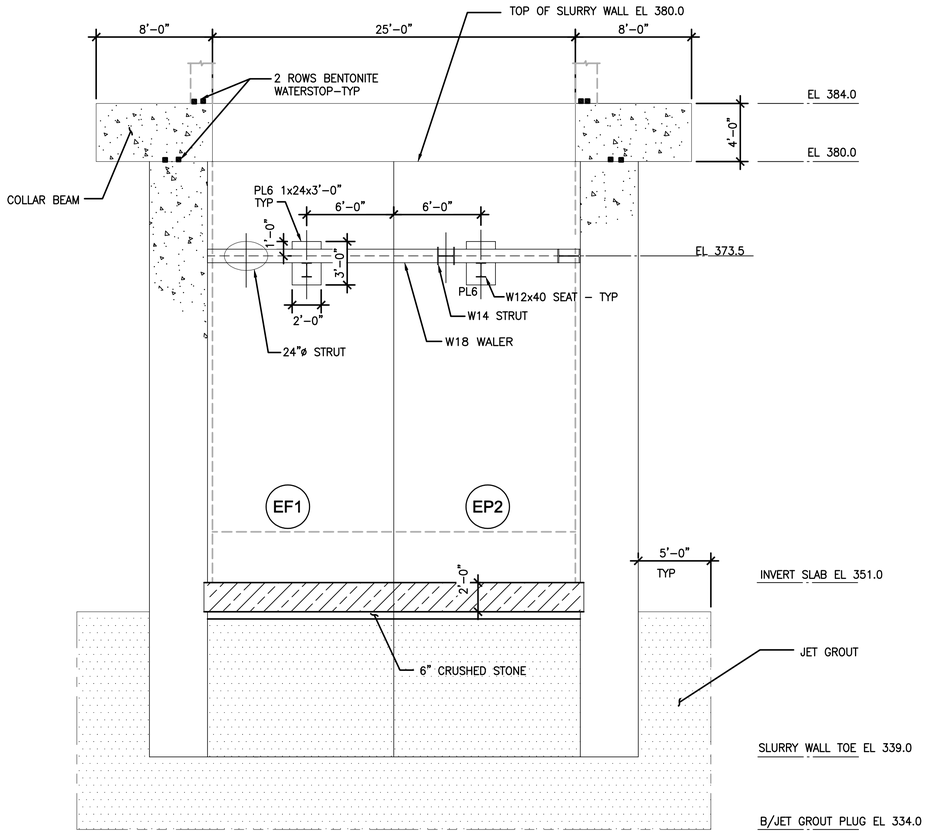
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · G. CHEN · No. 083742 · LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - PLAN @ EL 384.0

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-203



NORTH WALL ELEVATION (A)

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

LEGEND:

3" DEEP INVERT SLAB KEYWAY PER DETAIL 1 ON DWG WGS-403

NOTE:
1. FOR EMBEDDED PLATE DETAILS SEE WGS-403.
2. FOR EAST CHAMBER INVERT SLAB AND WEEPHOLE DETAILS SEE WGS-404.
3. WALER AND INTERNAL BRACING ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	4
02/27/12		3
02/07/12		2
12/15/11		1

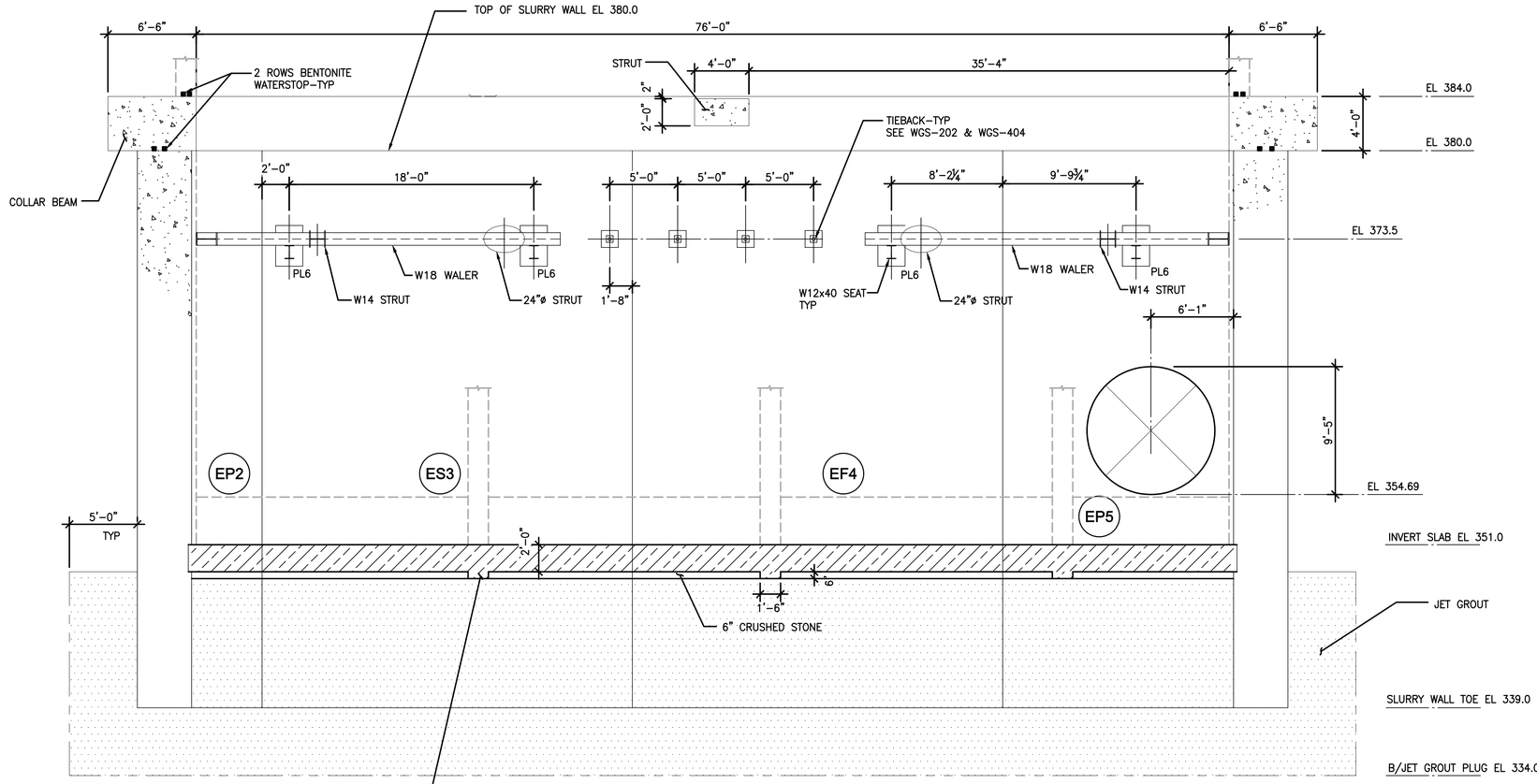
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · GE-CHEN · No. 083742 · LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - NORTH WALL ELEVATION

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-204



DETAIL SUBJECT TO CHANGE UPON APPROVAL OF WAI AND THE OWNER.
FINAL DETAIL WILL BE INCORPORATED IN TO THE AS-BUILT DRAWINGS FOR FINAL REFERENCE.

EAST WALL ELEVATION (B)

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

LEGEND:

3" DEEP INVERT SLAB KEYWAY PER DETAIL 1 ON DWG WGS-403

NOTE:
1. FOR EMBEDDED PLATE DETAILS SEE WGS-403.
2. FOR EAST CHAMBER INVERT SLAB AND WEEPHOLE DETAILS SEE WGS-404.
3. WALER AND INTERNAL BRACING ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

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®(617)374-0000 fax:(617)374-0010

DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	4
02/27/12		3
02/07/12		2
12/15/11		1

DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

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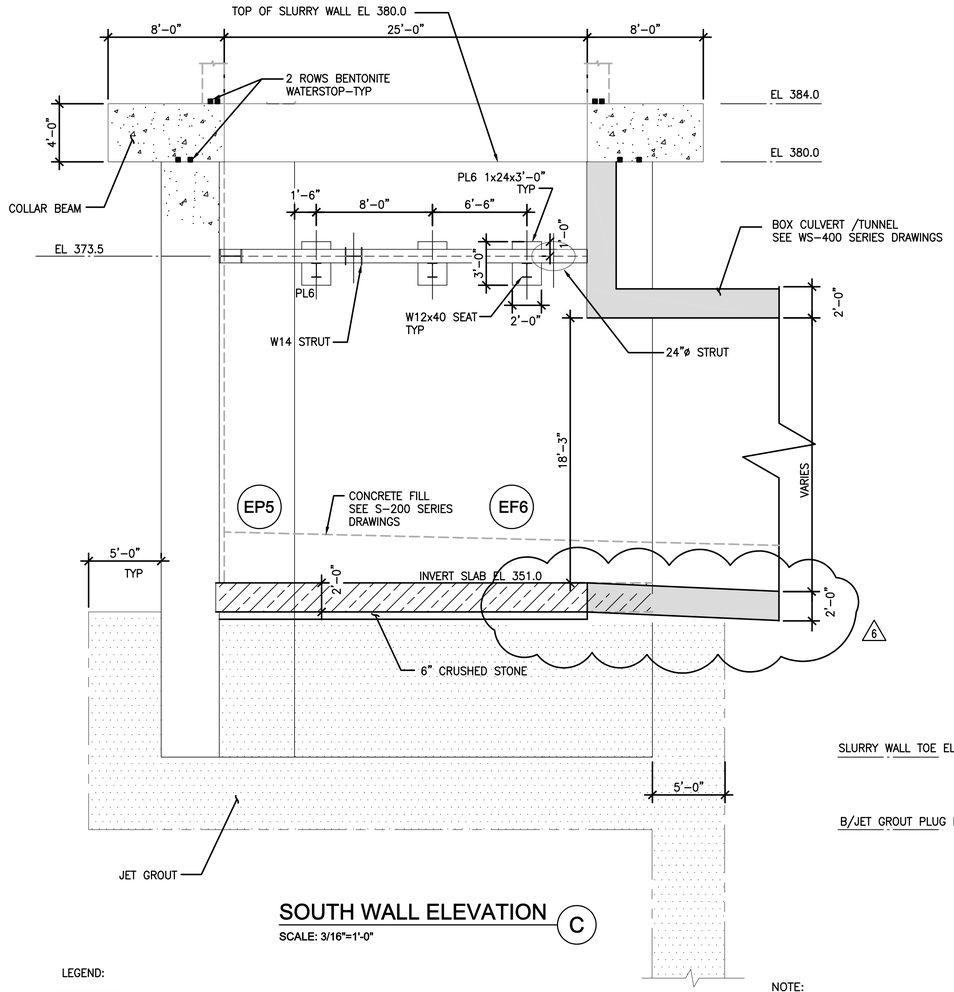
ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - EAST WALL ELEVATION

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-205



SOUTH WALL ELEVATION (C)

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

LEGEND:

3" DEEP INVERT SLAB KEYWAY PER DETAIL 1 ON DWG WGS-403

NOTE:
1. FOR EMBEDDED PLATE DETAILS SEE WGS-403.
2. FOR EAST CHAMBER INVERT SLAB AND WEEPHOLE DETAILS SEE WGS-404.
3. WALER AND INTERNAL BRACING ARE TEMPORARY.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

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Sitework - Concrete - Utilities - Pre-Engineered Buildings

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DATE:	REVISIONS	No.
12/06/12		6
11/20/12		5
03/23/12	CHANGE ORDER NO. 1	4
02/27/12		3
02/07/12		2

DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK GE CHEN No. 083742 LICENSED PROFESSIONAL ENGINEER

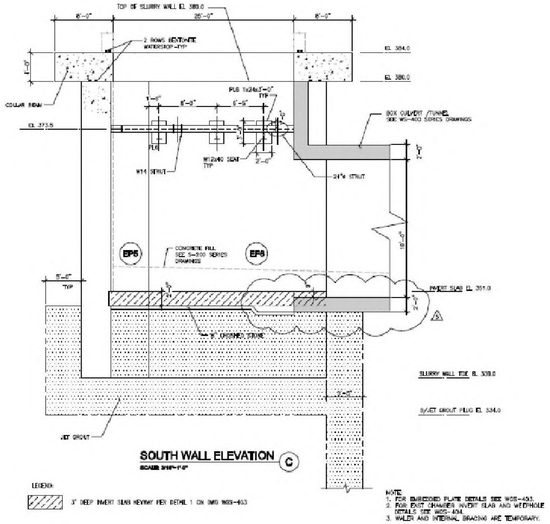
ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - SOUTH WALL ELEVATION

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-206

RFI #139, 11/26/12 EAST TRANSITION/CHAMBER INTERFACE

THE PROPOSED 1'-9" DROP FROM THE FLUSHING GATE TO THE TUNNEL IS NOT ACCEPTABLE, THIS 9" DIFFERENCE IN TUNNEL ELEVATION SHALL BE MADE UP IN THE INVERT SLAB IN ZONE 6 & ZONE 7 WITH THE CONSTRUCTION OF A RAMP. SEE SHEETS WGS-207, WGS-404, WS-413 FOR ADDITIONAL INFORMATION.



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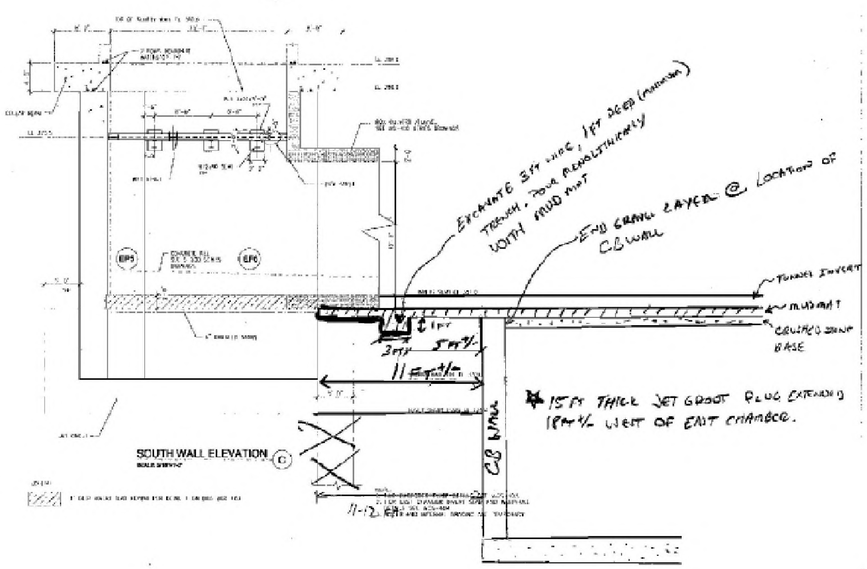
11/20/12		5	DESIGNED BY: H. AWAL
03/23/12	CHANGE ORDER NO. 1	4	DRAWN BY: N. BONDOC
02/27/12		3	CHECKED BY: M. KIRMANI
02/07/12		2	APPROVED BY: G. CHEN
12/15/11		1	
DATE:	REVISIONS	No.	

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - SOUTH WALL ELEVATION

CONTRACT No.
SCALE: 1/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-206

NOTE: PRESSURE WASH TOP OF JET GROUT PLUG PRIOR TO MUDMAT PLACEMENT



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ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - SOUTH WALL ELEVATION

CONTRACT No.
SCALE: 1/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-206

ENGINEER'S FIELD ORDER NO 16, 11/12/12

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

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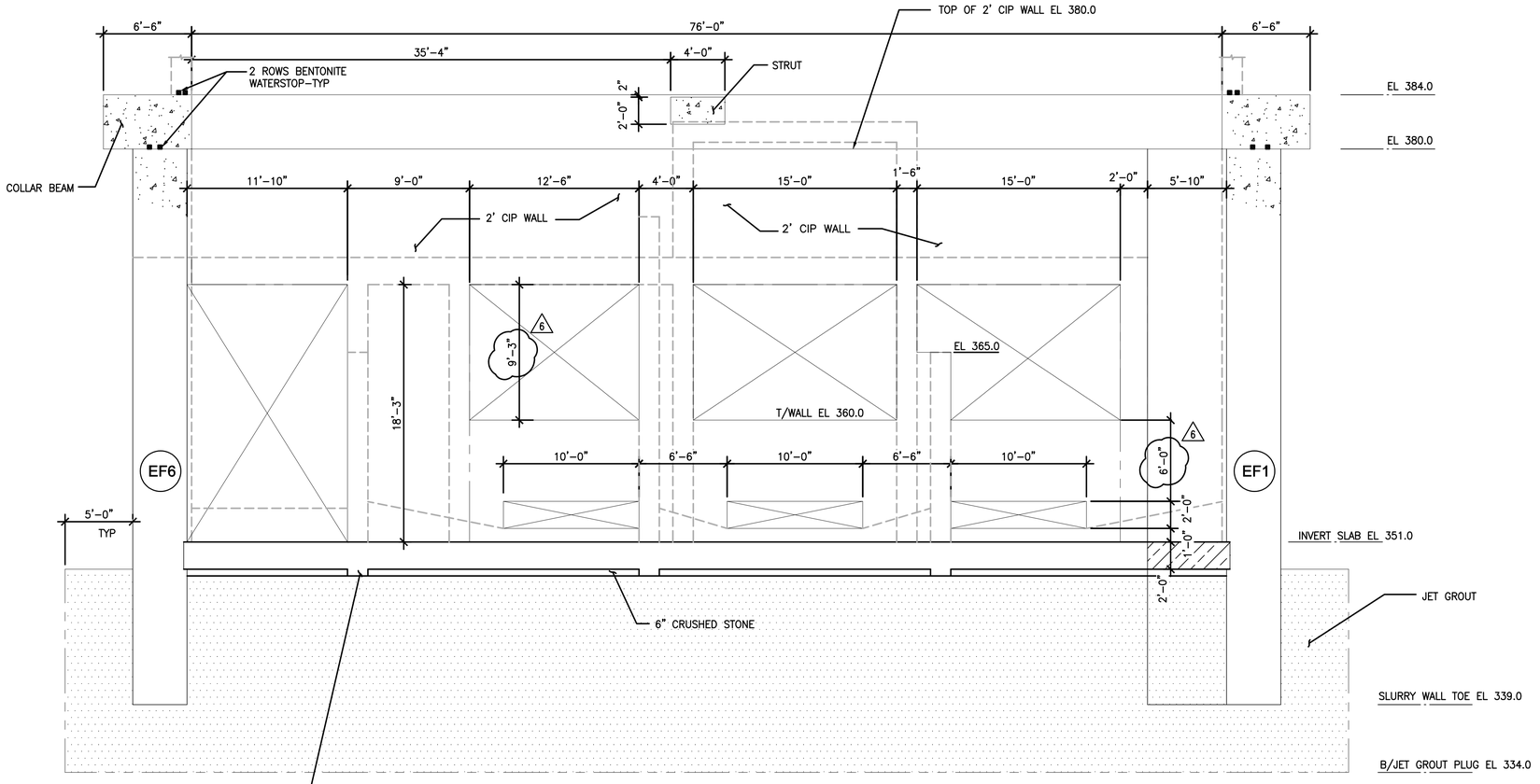
12/06/12		6	DESIGNED BY: H. AWAL
11/20/12		5	DRAWN BY: N. BONDOC
03/23/12	CHANGE ORDER NO. 1	4	CHECKED BY: M. KIRMANI
02/27/12		3	APPROVED BY: G. CHEN
02/07/12		2	
DATE:	REVISIONS	No.	

STATE OF NEW YORK
GE CHEN
No. 083742
LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - SOUTH WALL ELEVATION
RECORD DRAWING MARKUPS

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-206A



WEST WALL ELEVATION (D)

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

LEGEND:

3" DEEP INVERT SLAB KEYWAY PER DETAIL 1 ON DWG WGS-403

NOTE:
1. FOR THE 2 FEET CIP WALL REINFORCING SEE WS-400 SERIES DRAWINGS.
2. FOR EAST CHAMBER INVERT SLAB REINFORCING AND WEEPHOLE DETAIL SEE WGS-404.
3. FOR INTERNAL WALLS LAYOUT, DIMENSIONS AND REINFORCING SEE STRUCTURAL DRAWINGS.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

Jett Industries, Inc.
PO Box 219 - Colliersville, New York 13747
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Heavy & Highway Contractors
Sitework - Concrete - Utilities - Pre-Engineered Buildings

WEIDLINGER ASSOCIATES INC®
Consulting Engineers
201 Broadway, Cambridge MA 02139
®(617)374-0000 fax:(617)374-0010

DATE:	REVISIONS	No.
12/06/12		6
11/20/12		5
03/23/12	CHANGE ORDER NO. 1	4
02/07/12		3
12/15/11		2

DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK GE CHEN No. 083742 LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - WEST WALL ELEVATION

CONTRACT No.
SCALE: 3/16"=1'-0"
DATE: 10/25/11
DRAWING NO. WGS-207

OVERFLOW CHANNEL AND OUTFALL

WEST CHAMBER DIAPHRAGM WALLS

AS/SP WALL

JET GROUT PLUG (TYP)

TEMPORARY SHEET PILING (TYP)

TIEBACK–TYP

84" CONVEYANCE

36" MICROTUNNEL CONVEYANCE

12" SANITARY SEWER CONSTRUCTION PRIOR TO 84" CONVEYANCE CONSTRUCTION

OVERFLOW AND OUTFALL STRUCTURE CONSTRUCTED AFTER SANITARY SEWER AND 84" CONVEYANCE

JET GROUT BLOCK AT MICROTUNNEL BREAK–OUT (CONTRACTOR DESIGNED)

MATCH LINE — SEE WGS–302

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

NOTES:
1. THIS DRAWING TO BE USED FOR INFO REGARDING INSTALLATION OF 36" MICROTUNNEL CONVEYANCE, 84" CONVEYANCE, 12" SANITARY SEWER AND EXISTING SHAFT.

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03/23/12	CHANGE ORDER NO. 1	3
02/27/12		2
01/20/12		1

DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK — GC CHEN — No. 083742 — LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY – DWEP
CLINTON CSO STORAGE FACILITY

SHAFT AND PIPING SITE PLAN – WEST

CONTRACT No.
SCALE: 1"=20'
DATE: 09/30/11
DRAWING NO. WGS–301

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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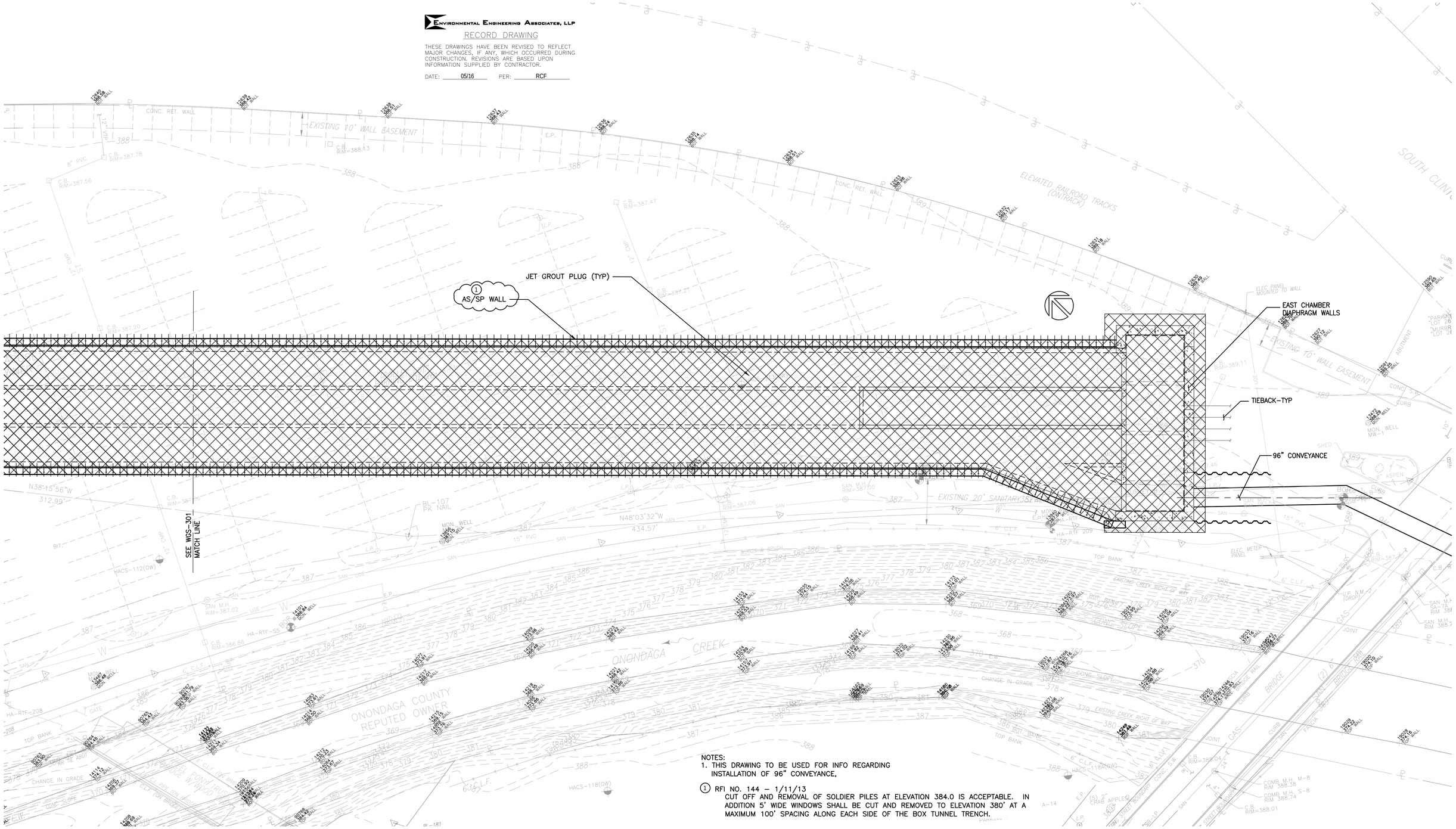
DATE: 05/16 PER: RCF



NOTES:
1. THIS DRAWING TO BE USED FOR INFO REGARDING INSTALLATION OF 96" CONVEYANCE,

(1) RFI NO. 144 – 1/11/13
CUT OFF AND REMOVAL OF SOLDIER PILES AT ELEVATION 384.0 IS ACCEPTABLE. IN ADDITION 5' WIDE WINDOWS SHALL BE CUT AND REMOVED TO ELEVATION 380' AT A MAXIMUM 100' SPACING ALONG EACH SIDE OF THE BOX TUNNEL TRENCH.

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	3
02/27/12		2
01/20/12		1

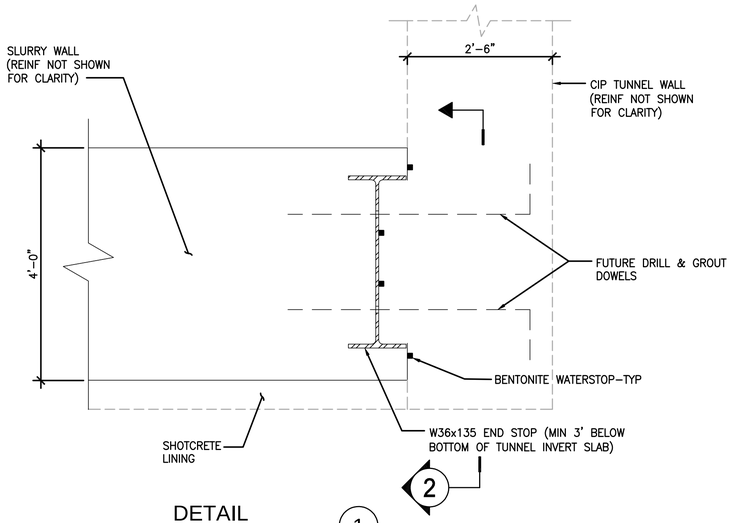
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · G. CHEN · No. 083742 · LICENSED PROFESSIONAL ENGINEER

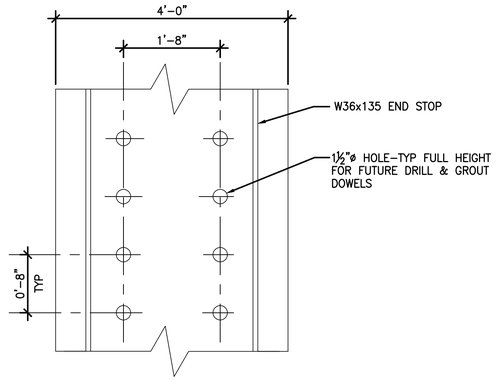
ONONDAGA COUNTY – DWEP
CLINTON CSO STORAGE FACILITY

SHAFT AND PIPING SITE PLAN – EAST

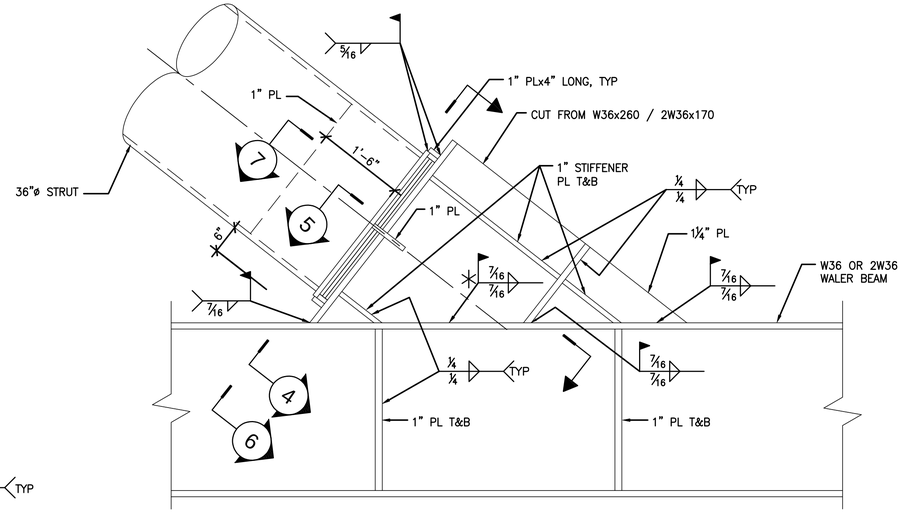
CONTRACT No.
SCALE: 1"=20'
DATE: 09/30/11
DRAWING NO. WGS-302



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

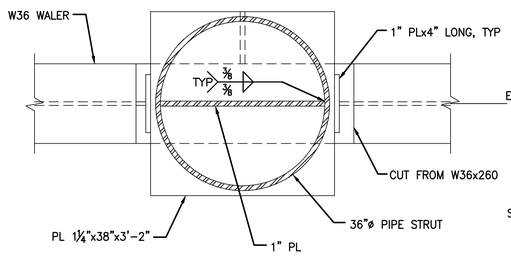


SECTION 2
SCALE:3/4"=1'-0"

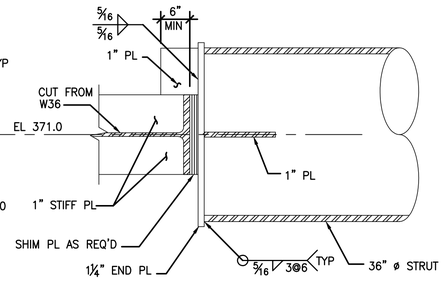


NOTES: 1. SECTIONS 4 AND 5 FOR W36 WALERS @ EL 371.0
2. SECTIONS 6 AND 7 FOR 2W36 WALERS @ EL 352.0
3. ✳ = MINIMUM 3 FILLET WELDS OF 7/16 BETWEEN WEBS OF CUT FROM 2W36x170 AND 2W36 WALER BEAM FOR FULL CONTACT LENGTH

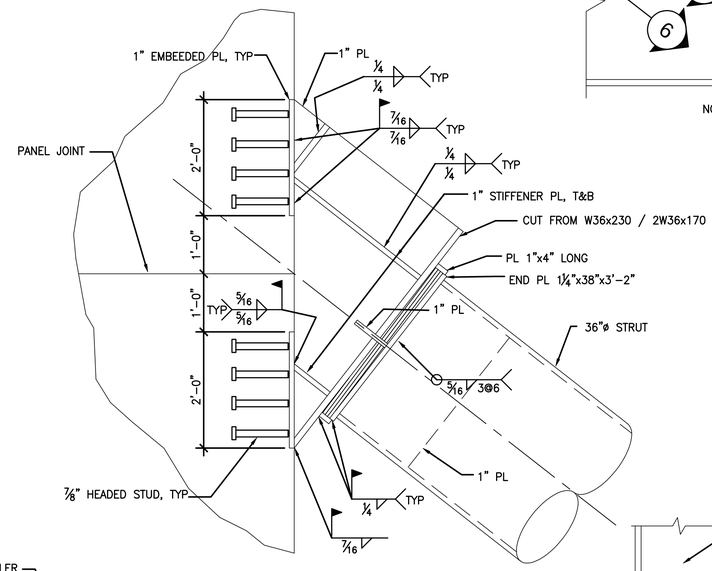
DETAIL 3
SCALE:3/4"=1'-0"



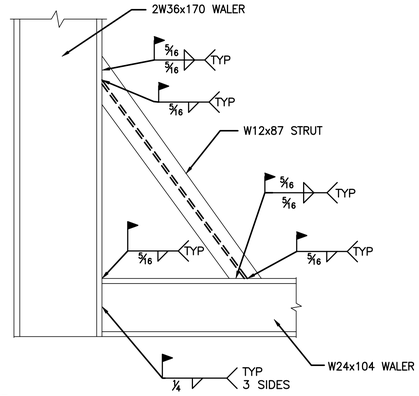
SECTION 4
SCALE:3/4"=1'-0"



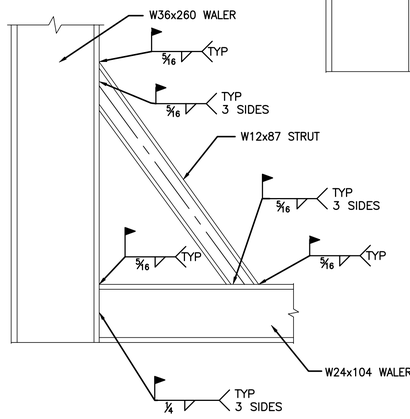
SECTION 5
SCALE:3/4"=1'-0"



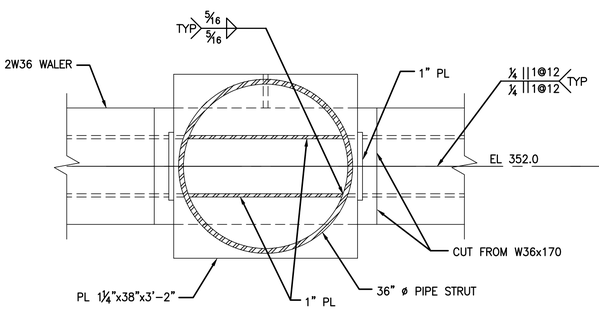
DETAIL 8
SCALE:3/4"=1'-0"



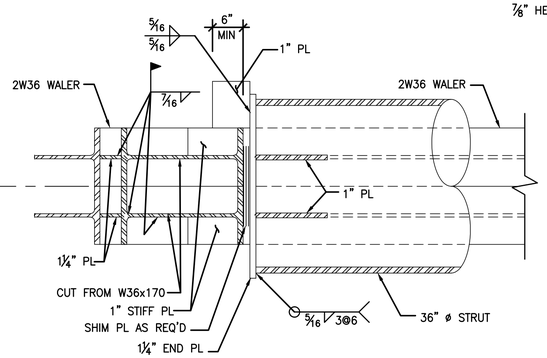
DETAIL 9
SCALE: NTS



DETAIL 10
SCALE: NTS



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



SECTION 7
SCALE:NTS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

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

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	5
02/27/12		4
02/08/12		3
01/27/12		2
12/08/11		1

DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK GE CHEN No. 083750 LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

BRACING DETAILS

CONTRACT No.
SCALE:
DATE: 09/30/11
DRAWING NO. WGS-400

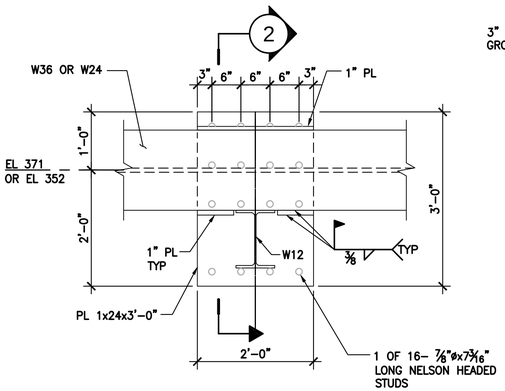
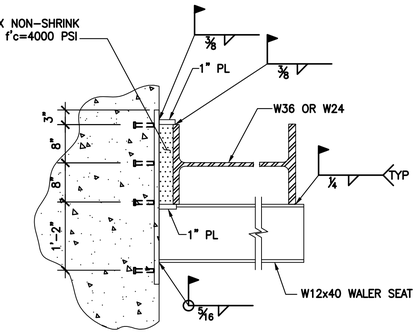


PLATE PL1 (1)

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



SECTION (2)

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

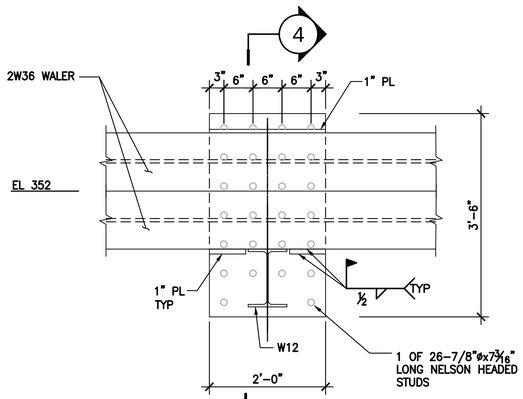
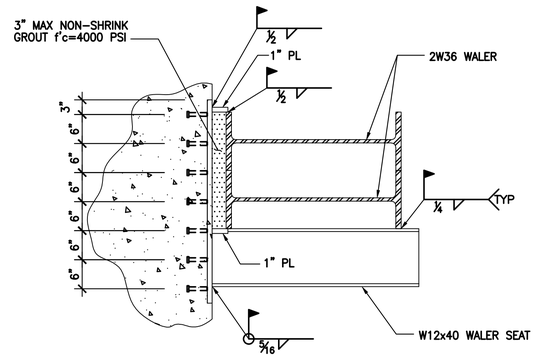


PLATE PL3 (3)

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



SECTION (4)

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

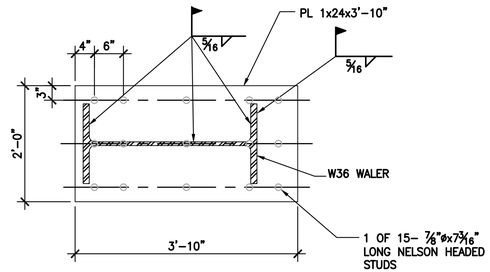


PLATE PL2 (5)

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

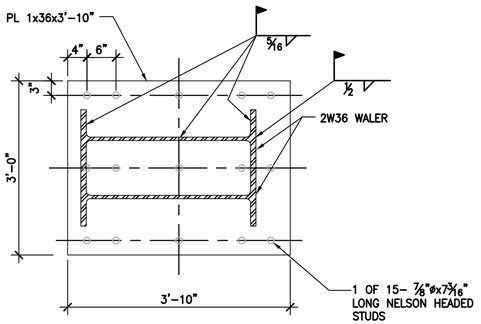


PLATE PL4 (6)

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

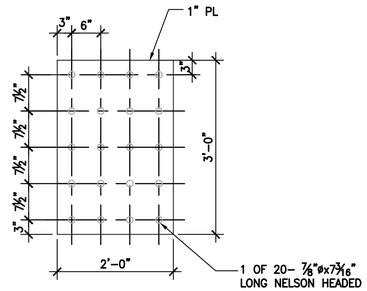
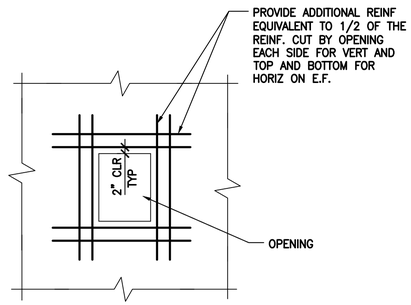


PLATE PL5 (7)

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

REINFORCEMENT DETAIL FOR TIEBACK LOCATION (8)

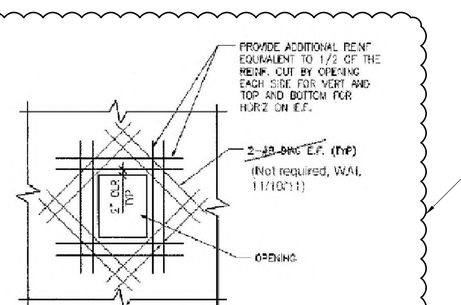
SCALE:1/2"=1'-0"



NOTE: 1. ADDITIONAL REINFORCEMENT SHALL EXTEND A MINIMUM LENGTH, LD BEYOND THE EDGES OF THE OPENING, SEE TABLE ON SHEET WGS-001 FOR LD.

SLURRY WALL REINF AT TIEBACK OPENING (9)

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



NOTE: 1. ADDITIONAL REINFORCEMENT SHALL EXTEND A MINIMUM LENGTH, LD BEYOND THE EDGES OF THE OPENING, SEE TABLE ON SHEET GS-001 FOR LD.

SLURRY WALL REINF AT TIEBACK OPENING (9)

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

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

1/2"=1'-0" SCALE: 0 1 2 3 4 5 6 FEET

3/4"=1'-0" SCALE: 0 1 2 3 4 FEET

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	5
02/07/12		4
12/08/11		3
10/31/11	REVISED AS NOTED	2
10/18/11	ADD REINF DETAIL 8 & 9	1

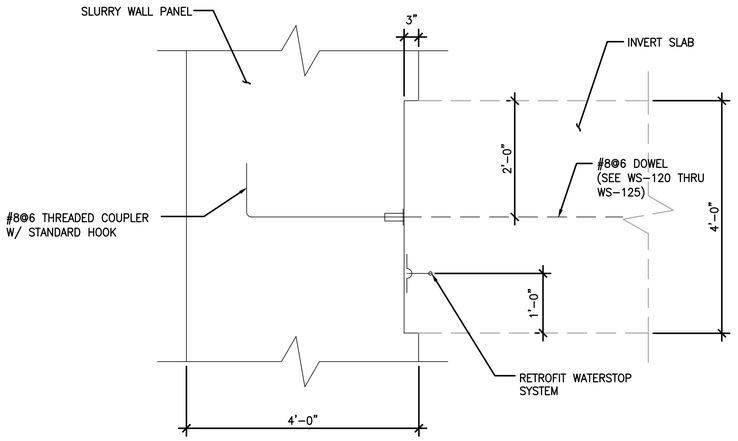
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · DE CHEN · No. 083742 · LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY – DWEP
CLINTON CSO STORAGE FACILITY

EMBEDDED PLATES DETAILS

CONTRACT No.
SCALE: 3/4"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-401

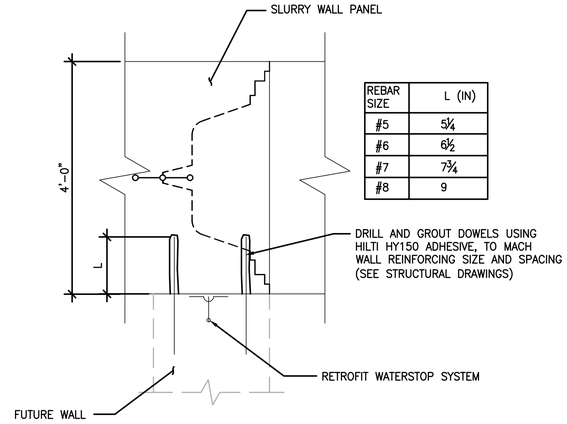


NOTE: SLURRY WALL PANEL REINFORCING NOT SHOWN FOR CLARITY

INVERT SLAB POCKET DETAIL 1

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

DETAIL 2 NOT USED

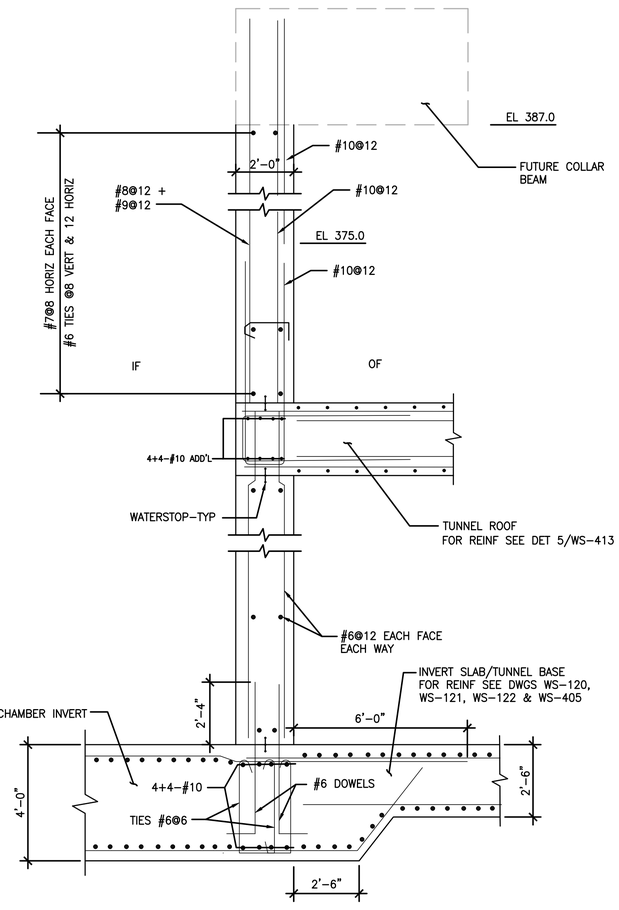


REBAR SIZE	L (IN)
#5	5¼
#6	6½
#7	7¾
#8	9

NOTE: SLURRY WALL PANEL REINFORCING NOT SHOWN FOR CLARITY

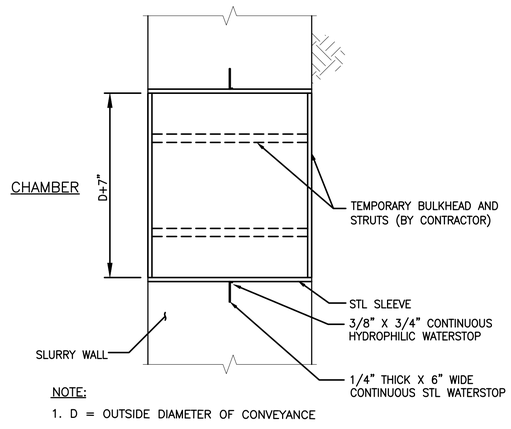
INTERIOR WALL TO SLURRY WALL CONNECTION DETAIL 3

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



SECTION 6

SCALE:NTS

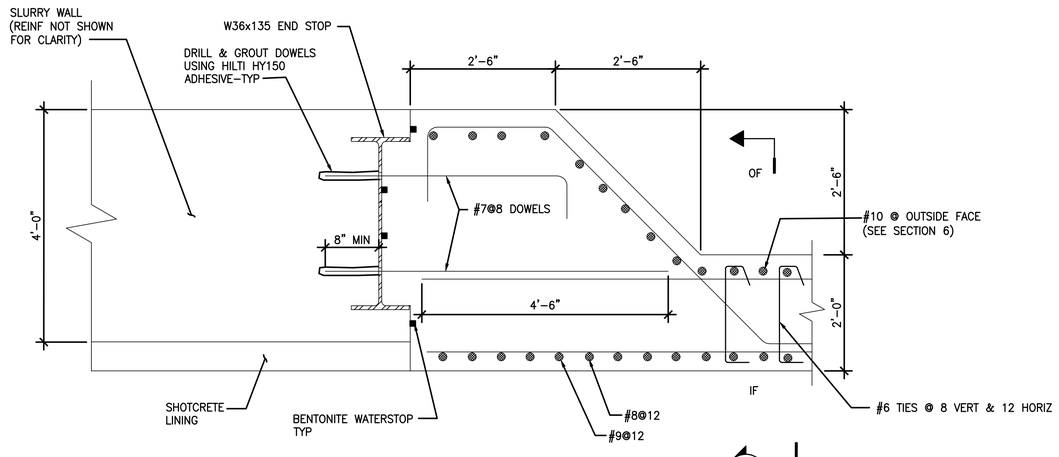


NOTE:

1. D = OUTSIDE DIAMETER OF CONVEYANCE

SLURRY WALL SLEEVE DETAIL 4

SCALE: NTS



NOTE: SECTION ABOVE TUNNEL ROOF

DETAIL 5

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

6

Environmental Engineering Associates, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

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

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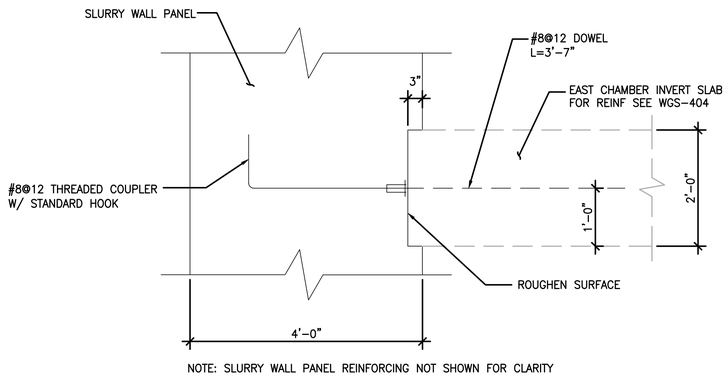
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK GE CHEN No. 083742 LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

DETAILS

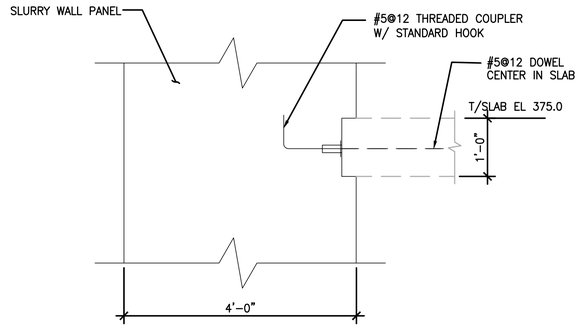
CONTRACT No.
SCALE: 3/4"=1'-0"
DATE: 09/30/11
DRAWING NO. WGS-402



NOTE: SLURRY WALL PANEL REINFORCING NOT SHOWN FOR CLARITY

INVERT SLAB KEYWAY DETAIL 1

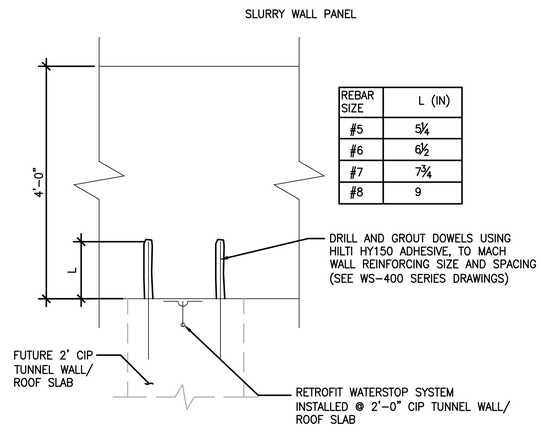
SCALE: 3/4"=1'-0"



NOTE: SLURRY WALL PANEL REINFORCING NOT SHOWN FOR CLARITY

DETAIL- OPTIONAL @ INTERMEDIATE PLATFORM SLAB 2A

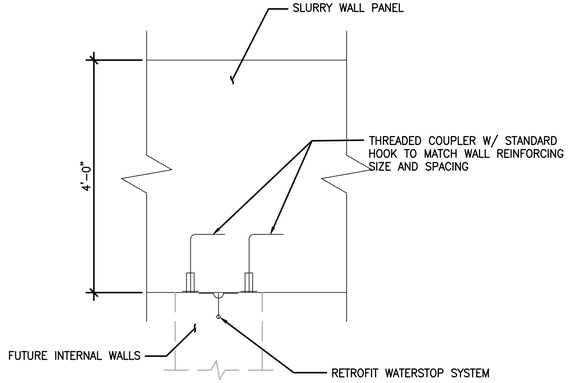
SCALE: 3/4"=1'-0"



NOTE: SLURRY WALL PANEL AND FUTURE 2' CIP TUNNEL WALL/ ROOF SLAB REINFORCING NOT SHOWN FOR CLARITY

DETAIL 3

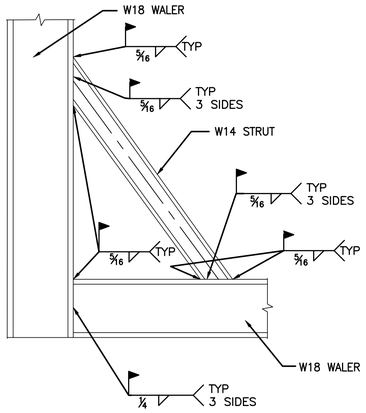
SCALE: 3/4"=1'-0"



NOTES:
1. SLURRY WALL PANEL REINFORCING NOT SHOWN FOR CLARITY.
2. DETAIL SIMILAR FOR PLATFORMS @ EL 361.0 WITHOUT WATERSTOP SYSTEM.

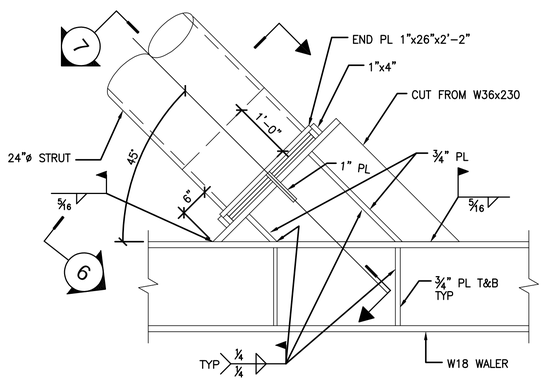
INTERIOR WALL TO SLURRY WALL CONNECTION DETAIL 3A

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



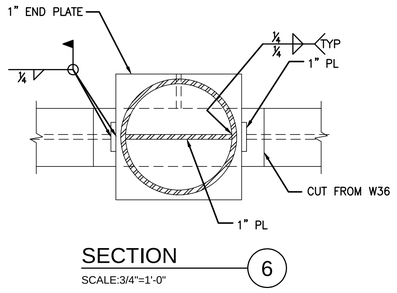
DETAIL 4

SCALE: NTS



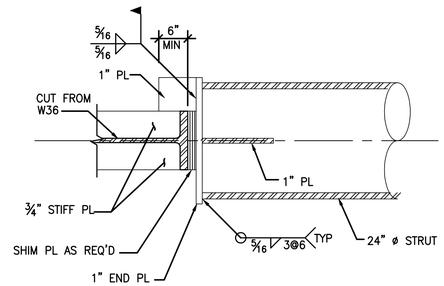
DETAIL 5

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



SECTION 6

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



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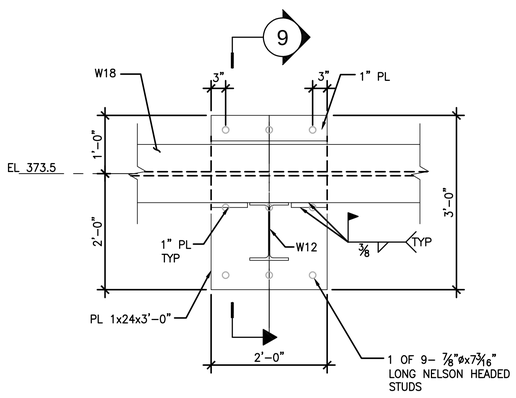
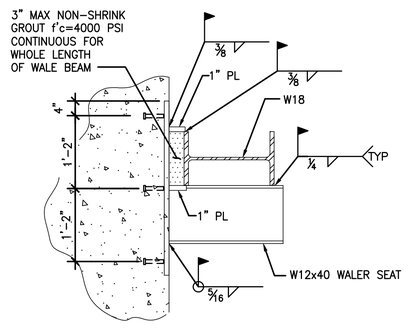


PLATE PL6 8

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



SECTION 9

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

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

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

Jett Industries, Inc.
PO Box 219 - Colliersville, New York 13747
Phone: (607) 433-2100 Fax: (607)433-2430
Heavy & Highway Contractors
Sitework - Concrete - Utilities - Pre-Engineered Buildings

WEIDLINGER ASSOCIATES INC®
Consulting Engineers
201 Broadway, Cambridge MA 02139
®(617)374-0000 fax:(617)374-0010

DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	7
02/27/12		6
02/07/12		5
01/27/12		4
12/20/11		3

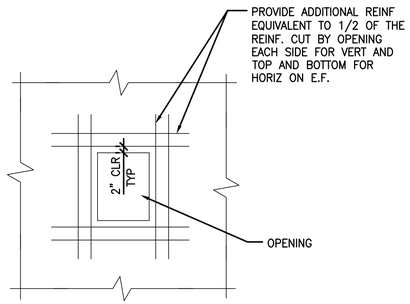
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK GE CHEN No. 083742 LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - DETAILS

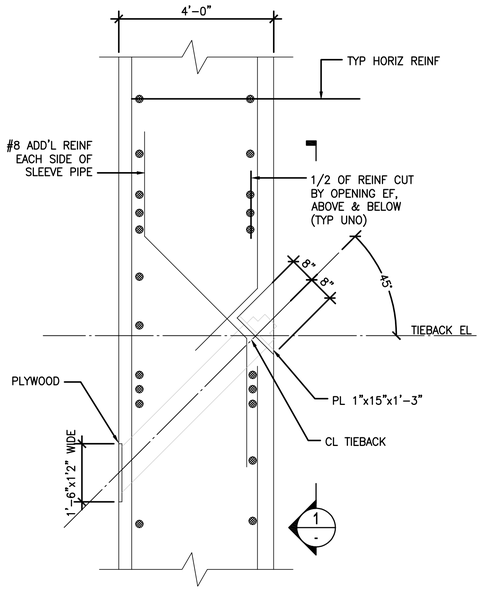
CONTRACT No.
SCALE:
DATE: 10/25/11
DRAWING NO. WGS-403



NOTE: 1. ADDITIONAL REINFORCEMENT SHALL EXTEND A MINIMUM LENGTH, LD BEYOND THE EDGES OF THE OPENING, SEE TABLE ON SHEET WGS-001 FOR LD.

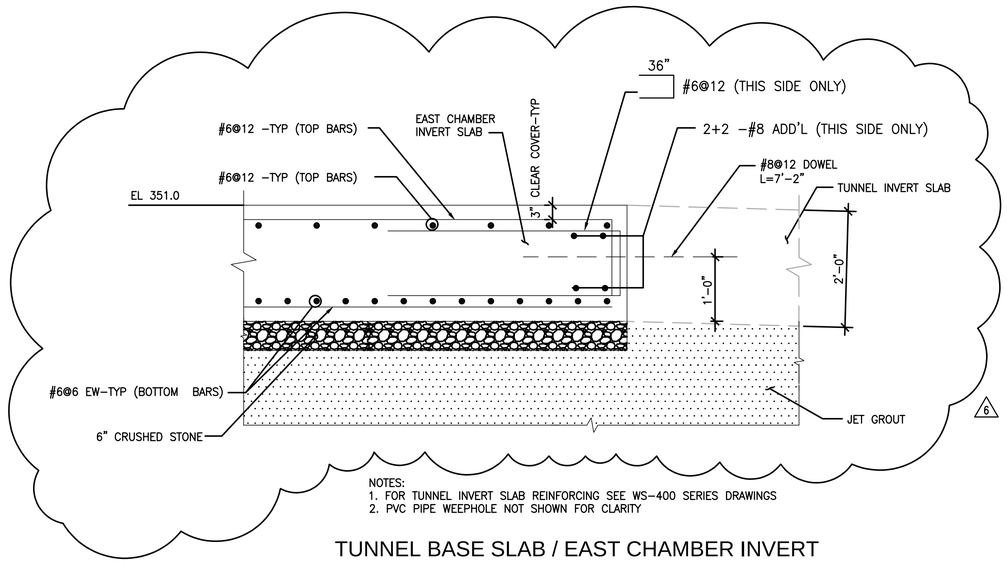
SLURRY WALL REINF AT TIEBACK OPENING (1)

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



REINFORCEMENT DETAIL FOR TIEBACK LOCATION (2)

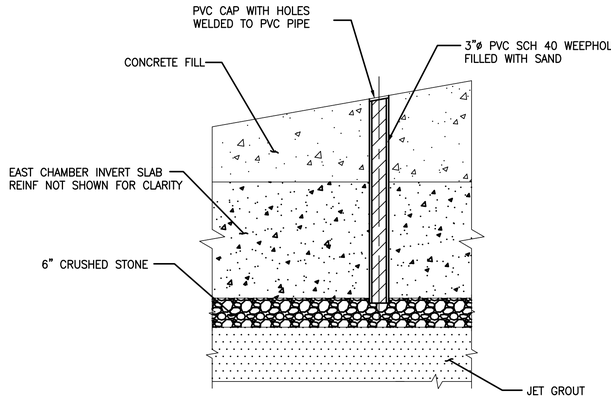
SCALE:1/2"=1'-0"



NOTES:
1. FOR TUNNEL INVERT SLAB REINFORCING SEE WS-400 SERIES DRAWINGS
2. PVC PIPE WEEPHOLE NOT SHOWN FOR CLARITY

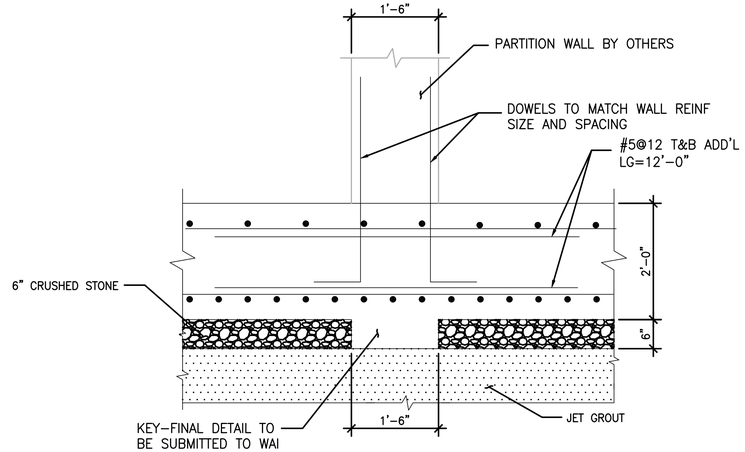
TUNNEL BASE SLAB / EAST CHAMBER INVERT SLAB INTERFACE DETAIL (3)

SCALE: NTS



WEEPHOLE PIPE DETAIL - TYP (4)

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



EAST CHAMBER INVERT SLAB @ PARTITION WALL - DETAIL (5)

SCALE: NTS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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1/2"=1'-0" SCALE: 0 1 2 3 4 5 6 FEET

3/4"=1'-0" SCALE: 0 1 2 3 4 FEET

Jett Industries, Inc.
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®(617)374-0000 fax:(617)374-0010

DATE:	REVISIONS	No.
12/06/12		6
11/20/12		5
03/23/12	CHANGE ORDER NO. 1	4
02/27/12		3
02/07/12		2

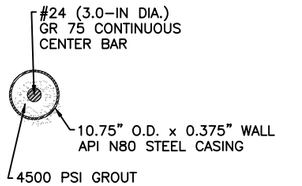
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · GE CHEN · No. 083742 · LICENSED PROFESSIONAL ENGINEER

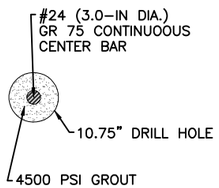
ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

EAST CHAMBER - DETAILS

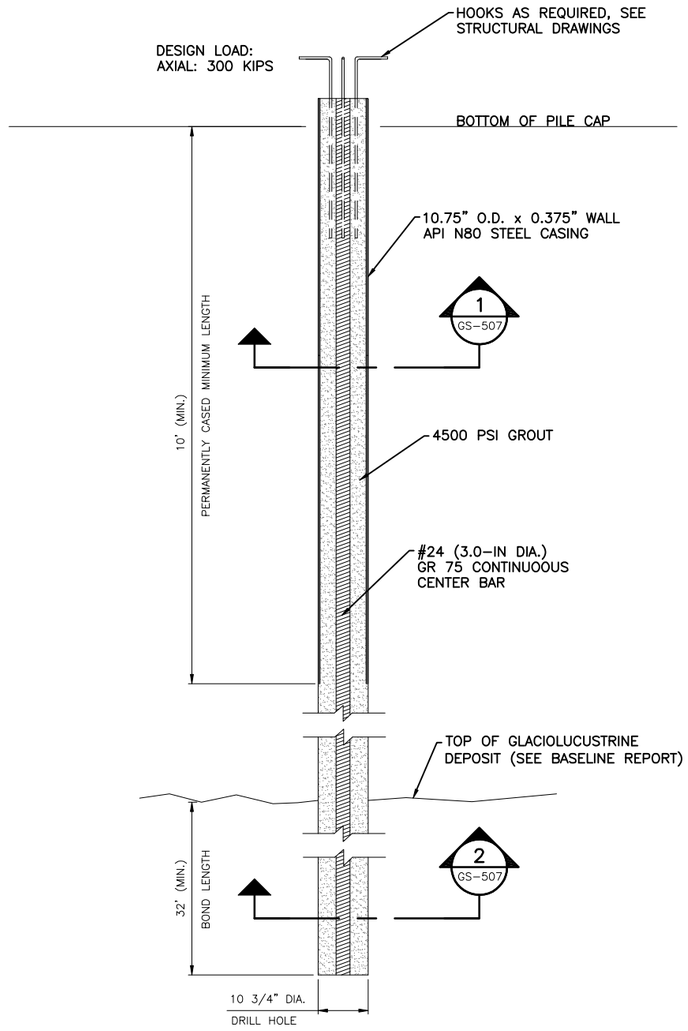
CONTRACT No.
SCALE:
DATE: 12/15/11
DRAWING NO. WGS-404



SECTION 1 — 3/4"=1'–0" — 507



SECTION 2 — 3/4"=1'–0" — 507



TYPICAL MICROPILE DETAIL
N.T.S.

SCALE:

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No.	Date	Revisions	Init
2	04/11	AS BID	
1	01/11	ISSUED FOR APPROVAL	

In charge of AJM
Designed by PAB
Drawn by PAB
Checked by JGS

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

BRIERLEY ASSOCIATES
Limited Liability Company
Creating Space Underground

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

PILE FOUNDATIONS

GEOTECHNICAL STRUCTURAL

File Number 00663
Date 04/11

GS–507

ABBREVIATIONS

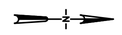
A	
&	AND
@	AT
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AL OR ALUM.	AL OR ALUMINUM
AHU	AIR HANDLING UNIT
B	
BLDG.	BUILDING
BOT.	BOTTOM
BRNG.	BEARING
BUR	BUILT UP ROOF
C	
CAB	CABINET
CHEM	CHEMICAL
CJ	CONTROL JOINT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMBO	COMBINATION
CONF.	CONFERENCE
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
COV.	COVER
D	
DET	DETAIL
DIA.,ø	DIAMETER
DN OF DWN	DOWN
DRWR	DRAWER
DWG.	DRAWING
E	
E	EAST
EA	EACH
EL. OR ELEV.	ELEVATION
ELEC.	ELECTRIC
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EXIST OR EXG	EXISTING
EXP	EXPOSED
EXPAN	EXPANSION
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
G	
GA	GAGE
GALV.	GALVANIZED
GL.	GLASS
G.O.	GATE OPERATOR
GR	GRADE
GWB	GYPSUM WALL BOARD
H	
H, HGT OR HT	HEIGTH
HD	HEAD
HM	HOLLOW METAL
HOR.	HORIZONTAL
I	
IN. OR "	INCH
INSUL.	INSULATION
INT.	INTERIOR
J	
JT.	JOINT
L	
L	ANGLE
LAB.	LABORATORY
LLV	LONG LEG VERTICAL
LLH	LONG LEG HORIZONTAL
LV	LOUVER

M	
MAT	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD	MOUNTED
N	
N	NORTH
NO. OR #	NUMBER
N.T.S.	NOT TO SCALE
O	
O.C.	ON CENTER
O.H.	OVERHEAD
OPG.	OPENING
P	
PL.	PLATE
PLAS. LAM	PLASTIC LAMINATE
PLUMB.	PLUMBING
PT	PAINT
P.T.	PRESSURE TREATED
R	
R.	RISER
RAD.	RADIUS
R.D.	ROOF DRAIN
REFRIG.	REFRIGERATOR
REINF.	REINFORCEMENT
REQ.	REQUIRED
RM	ROOM
RO	ROUGH OPENING
S	
S	SOUTH
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
TELE	TELEPHONE
TOIL	TOILET
T.O.S.	TOP OF STEEL
TYP.	TYPICAL
V	
VERT.	VERTICAL
W	
W	WEST
W/	WITH
WDTH	WIDTH
WD	WOOD

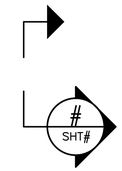
SYMBOLS LEGEND

- CONCRETE
- EARTH
- GRAVEL
- CONC. MASONRY UNIT
- CONC. MASONRY UNITS ELEVATION VIEW
- RIGID INSULATION
- GROUT
- STEEL
- BATT INSULATION

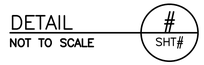
ARCHITECTURAL SYMBOLS LEGEND



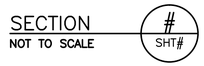
DIRECTION NORTH
(PLAN NORTH ASSUMED FOR ALL FLOOR AND BUILDING PLANS TO THE RIGHT OF EACH SHEET UNLESS OTHERWISE NOTED.



SECTION AND OR DETAIL INDICATOR



REFERENCE DETAIL INDICATOR



REFERENCE SECTION INDICATOR

REVISION NUMBER

DOOR NUMBER INDICATOR

STAIR LABEL

ROOM NUMBER INDICATOR

PARTITION TYPE

L: ON=*; OFF=*REF*
X:
7/3-/10 G1D SAW
DIR/DWG

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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1	01/11	ISSUED FOR APPROVAL	

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 WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

SYMBOLS AND ABBREVIATIONS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED 018471 STATE OF NEW YORK

File Number 00663
Date 04/11

A-001

PARTITION LEGEND

1 — TYPICAL CMU PARTITION– 12" CONC. BLOCK/ FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALLS START AT FINISHED FLOOR ELEVATION. CMU TO BE FULL HT FROM SLAB OR FLOOR ELEVATION TO UNDERSIDE OF STRUCTURE. SEAL BETWEEN WALL AND ROOF STRUCTURE. SEE PARAPET WALL TYPES FOR WHERE WALLS EXTEND BEYOND ROOF & BECOME PARAPETS

1A — TYPICAL CMU PARTITION– 12" CONC. BLOCK/ FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALLS START AT FINISHED FLOOR ELEVATION. CMU TO BE FULL HT FROM SLAB OR FLOOR ELEVATION TO UNDERSIDE OF STRUCTURE. SEAL BETWEEN WALL AND ROOF STRUCTURE. WALL AND ALL OPENINGS AND ALL PENETRATIONS TO HAVE A 1 HOUR RATING

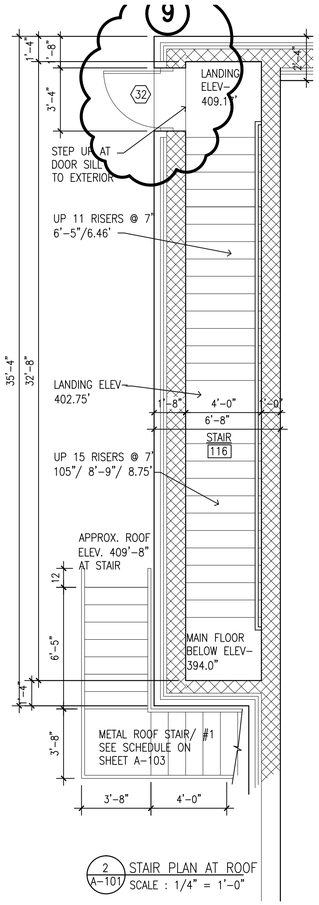
2 — TYPICAL CMU PARTITION– 8" CONC. BLOCK FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE FULL HT FROM SLAB TO UNDERSIDE OF THE ROOF STRUCTURE.

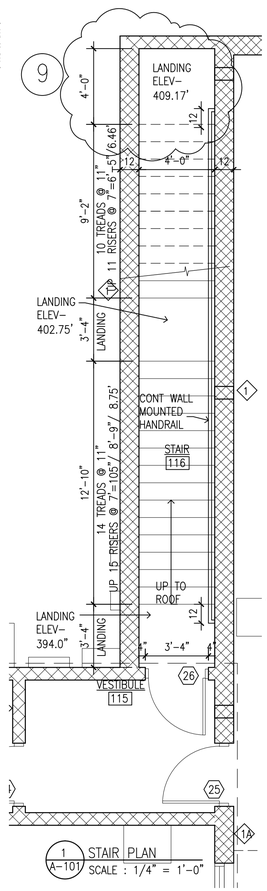
2A — TYPICAL CMU PARTITION– 8" CONC. BLOCK FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE FULL HT FROM SLAB TO UNDERSIDE OF THE ROOF STRUCTURE. WALL AND ALL OPENINGS AND PENETRATIONS TO HAVE A 1 HOUR RATING

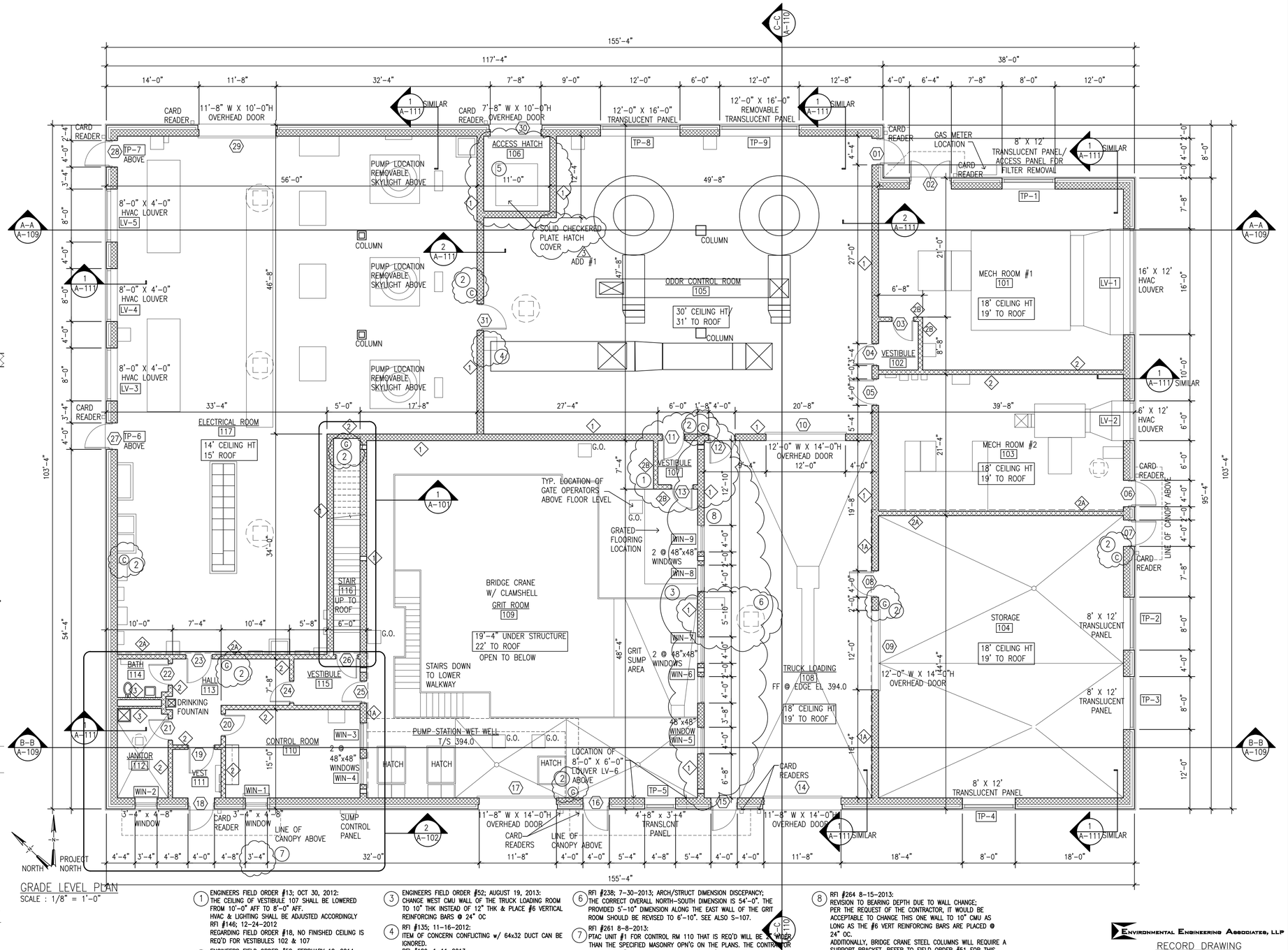
2B — TYPICAL CMU PARTITION– 8" CONC. BLOCK FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE 10'–0" HT FROM SLAB TO UNDERSIDE ROOF PLANK

3 — PLUMBING SHAFT WALL– INSTALL 4" CMU AT EACH SIDE OF 12" WIDE PLUMBING SHAFT WALL. FINISH AT EACH ROOM SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE/ PARTITION TO BEGIN AT SLAB/ FLOOR AND EXTEND TO UNDERSIDE OF ROOF PLANK/ CEILING ABOVE

4 — TYPICAL CMU PARTITION– 10" CONC. BLOCK ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE FULL HT FROM SLAB TO UNDERSIDE







1. ENGINEERS FIELD ORDER #13; OCT 30, 2012:
THE CEILING OF VESTIBULE 107 SHALL BE LOWERED FROM 10'–0" AFF TO 8'–0" AFF.
HVAC & LIGHTING SHALL BE ADJUSTED ACCORDINGLY
RFI #146; 12–24–2012:
REGARDING FIELD ORDER #18, NO FINISHED CEILING IS REQ'D FOR VESTIBULES 102 & 107

2. ENGINEERS FIELD ORDER #58; FEBRUARY 12, 2014:
FIRE EXTINGUISHER LOCATIONS:
1.) MOUNT TOP OF BRACKET @ 4" AFF
2.) INSTALL WHERE INDICATED W/SIGNS TAPED ON WALLS IN THE BUILDINGS.
Ⓒ– C02 F.E. Ⓖ– GENERAL PURPOSE F.E.

3. ENGINEERS FIELD ORDER #52; AUGUST 19, 2013:
CHANGE WEST CMU WALL OF THE TRUCK LOADING ROOM TO 10" THK INSTEAD OF 12" THK & PLACE #6 VERTICAL REINFORCING BARS @ 24" OC

4. RFI #135; 11–16–2012:
ITEM OF CONCERN CONFLICTING w/ 64x32 DUCT CAN BE IGNORED.
RFI #129; 1–11–2013:
VESTIBULE ROOFS WILL BE METAL COMPOSITE DECK REFER TO FIELD ORDER 18.

5. RFI #158; 1–18–2013:
THE ACCESS HATCH IN ROOM 106 SHALL BE A 6'x6' DOUBLE LEAF HATCH.

6. RFI #238; 7–30–2013; ARCH/STRUCT DIMENSION DISCEPANCY;
THE CORRECT OVERALL NORTH–SOUTH DIMENSION IS 54'–0". THE PROVIDED 5'–10" DIMENSION ALONG THE EAST WALL OF THE GRIT ROOM SHOULD BE REVISED TO 6'–10". SEE ALSO S–107.

7. RFI #261 8–8–2013:
PTAC UNIT #1 FOR CONTROL RM 110 THAT IS REQ'D WILL BE SLIGHTLY WIDER THAN THE SPECIFIED MASONRY OPN'G ON THE PLANS. THE CONTRACTOR IS TO CUT 1" FROM EACH SIDE OF THE OPN'G THRU BOTH THE CMU & PRECAST FACE PANEL. THE HT OF THE CUT IS EQUAL TO HEIGHT OF THE PTAC UNIT. THE CONTRACTOR/MASON SHOULD COORDINATE THE MASONRY OPN'G SIZE w/ THE SUPPLIED UNIT. THE INSTALLED PTAC UNIT & OPN'G IS TO REMAIN CENTERED UNDER THE WINDOW TO BE INSTALLED ABOVE. THERE ARE NO MODIFICATIONS REQ'D TO THE LINTEL FOR THIS OPENING.

8. RFI #264 8–15–2013:
REVISION TO BEARING DEPTH DUE TO WALL CHANGE;
PER THE REQUEST OF THE CONTRACTOR, IT WOULD BE ACCEPTABLE TO CHANGE THIS ONE WALL TO 10" CMU AS LONG AS THE #6 VERT REINFORCING BARS ARE PLACED @ 24" OC.
ADDITIONALLY, BRIDGE CRANE STEEL COLUMNS WILL REQUIRE A SUPPORT BRACKET. REFER TO FIELD ORDER #51 FOR THIS INFORMATION.
SEE SHEET A–108A

9. RE–ISSUED DETAIL PER RFP #34 ON SHEET A–108A.

L: ON=*; OFF=*REF*
X:
7/3–/10 G1D SAW
DIR/DWG

1/4"=1'–0" (4' 0 4' 8')
1/8"=1'–0" (8' 0 8' 16')

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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 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 WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

CLINTON STORAGE FACILITY
GRADE LEVEL PLAN

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED NEW YORK No. 018471

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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DATE: 03/15 PER: SAW

File Number 00663
Date 04/11

A–101

BATHROOM ACCESSORIES

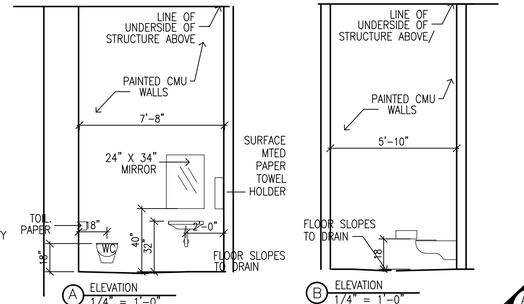
1–PAPER TOWEL BY BOBERICK #B–2621 200 C–FOLD OR 275 MULTIFOLD. TYPE 304 STAINLESS STEEL WITH SATIN FINISH. DOOR WITH KNOB LATCH AND PIANO HINGE. 10 3/4W X 8"H X 4"D

2–SURFACE MOUNTED DOUBLE TOILET PAPER HOLDER W/ SHELF #B–2840. STAINLESS STL. SHELF HAS 1/2" RETURNS, CHROME PLATED PLASTIC SPINDLES FOR STANDARD ROLLS, SIZE 16"W X 4"H X 5"D

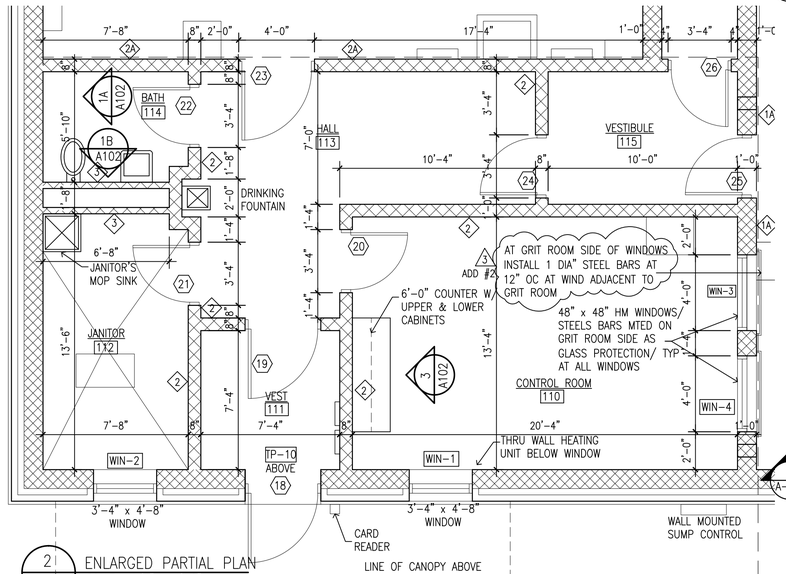
3–SOAP DISPENSER BY BOBERICK #B–155 BRIGHT POLISHED CHROME PLATED ABS MOUNTING BRACKET, CORROSION–RESISTANT VALVE, TRANSLUCENT POLYETHYLENE CONTAINER 24 FL. OZ. CAPACITY

4–FLOOR STANDING WASTE RECEPTACLE MODEL # B–2280/ SATIN FINISH STAINLESS STEEL WITH VINYL WALL BUMBER, RUBBER FEET, 21 GAL. CAPACITY SIZE 14" X 14" X 30"H

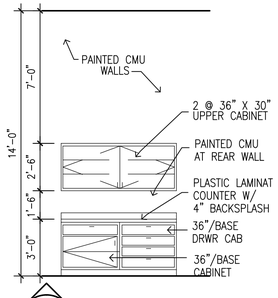
5–MIRROR TO BE #1 QUALITY 1/4" GLASS GLASS ELECTROCYTICALLY COPPER PLATED. MIRROR EDGES PROTECTED WITH PLASTIC FILLER STRIPS TO PREVENT CHIPPING FRAME MIRRORS W/ ROLL FORMED 3/4" X 3/4" STAINLESS STEEL ANGLE W/ SATIN FINISH STANDARD SIZE AS INDICATED



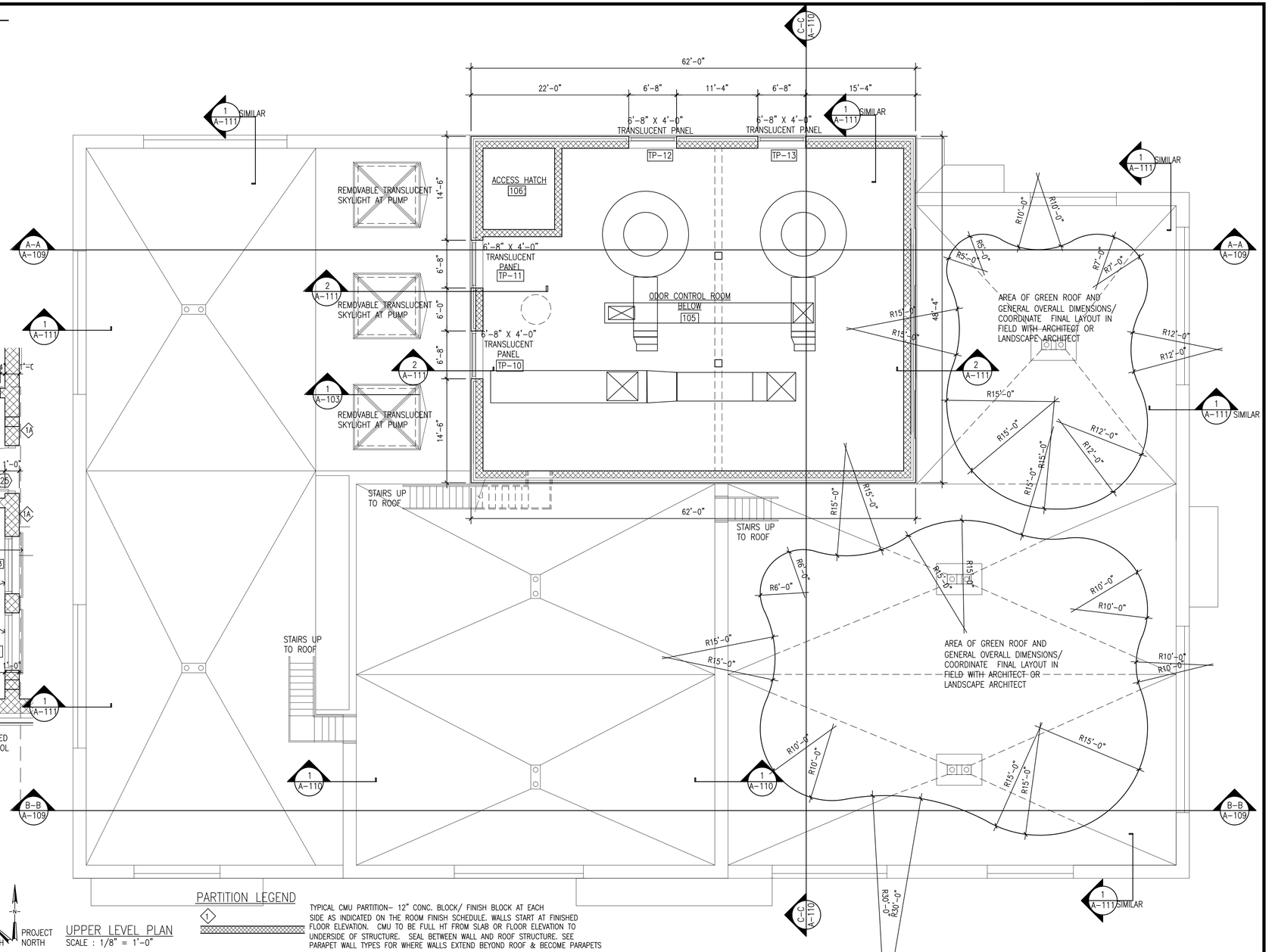
1 / A102 BATHROOM ELEVATIONS
SCALE : 1/4" = 1'–0"



2 / A102 ENLARGED PARTIAL PLAN
SCALE : 1/4" = 1'–0"



3 / A102 OFFICE ELEVATION
SCALE : 1/4" = 1'–0"



NORTH PROJECT NORTH

UPPER LEVEL PLAN
SCALE : 1/8" = 1'–0"

PARTITION LEGEND

1 — TYPICAL CMU PARTITION– 12" CONC. BLOCK/ FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALLS START AT FINISHED FLOOR ELEVATION. CMU TO BE FULL HT FROM SLAB OR FLOOR ELEVATION TO UNDERSIDE OF STRUCTURE. SEAL BETWEEN WALL AND ROOF STRUCTURE. SEE PARAPET WALL TYPES FOR WHERE WALLS EXTEND BEYOND ROOF & BECOME PARAPETS

1A — TYPICAL CMU PARTITION– 12" CONC. BLOCK/ FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALLS START AT FINISHED FLOOR ELEVATION. CMU TO BE FULL HT FROM SLAB OR FLOOR ELEVATION TO UNDERSIDE OF STRUCTURE. SEAL BETWEEN WALL AND ROOF STRUCTURE. WALL AND ALL OPENINGS AND ALL PENETRATIONS TO HAVE A 1 HOUR RATING

2 — TYPICAL CMU PARTITION– 8" CONC. BLOCK FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINIISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE FULL HT FROM SLAB TO UNDERSIDE OF THE ROOF STRUCTURE.

2A — TYPICAL CMU PARTITION– 8" CONC. BLOCK FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE FULL HT FROM SLAB TO UNDERSIDE OF THE ROOF STRUCTURE. WALL AND ALL OPENINGS AND PENETRATIONS TO HAVE A 1 HOUR RATING

2B — TYPICAL CMU PARTITION– 8" CONC. BLOCK FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE 10'–0" HT FROM SLAB TO UNDERSIDE ROOF PLANK

3 — PLUMBING SHAFT WALL– INSTALL 4" CMU AT EACH SIDE OF 12" WIDE PLUMBING SHAFT WALL. FINISH AT EACH ROOM SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE/ PARTITION TO BEGIN AT SLAB/ FLOOR AND EXTEND TO UNDERSIDE OF ROOF PLANK/ CEILING ABOVE

4 — TYPICAL CMU PARTITION– 10" CONC. BLOCK ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE FULL HT FROM SLAB TO UNDERSIDE

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 03/15 PER: SAW

L: ON=*; OFF=*REF*
X;
7/3–/10 G1D SAW
DIR/DWG

1/4"=1'–0" 4' 0 4' 8'
1/8"=1'–0" 8' 0 8' 16'

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No.	Date	Revisions	Init
4	03/15	RECORD DRAWINGS	
3	02/12	REVISED PER ADDENDA	
2	04/11	AS BID	
1	01/11	ISSUED FOR APPROVAL	

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
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SYRACUSE NEW YORK 13206
315–434–1844 / FAX 434–1845

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

CLINTON STORAGE FACILITY
UPPER LEVEL PLAN AND PLAN DETAILS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED No. 018471 STATE OF NEW YORK

File Number 00663
Date 04/11

A–102

GENERAL NOTES:

1. CRICKETS: 1/2"/1'–0" TAPERED CRICKET INSULATION, SIZED TO MAINTAIN MIN. 1/8"/1'–0" @ VALLEYS.

2. HEATED SPACE: MIN. 4" INSULATION @ 18" FROM CENTER LINE OF ROOF DRAIN. OVERALL ROOF "R" VALUE MINIMUM R=30

3. WALKPADS 2'–0" x 2'–0" TYPICAL.

4. PROVIDE TYPICAL ACCESS STAIRS BETWEEN ROOFS WHERE INDICATED.

ROOF TOP STAIRS

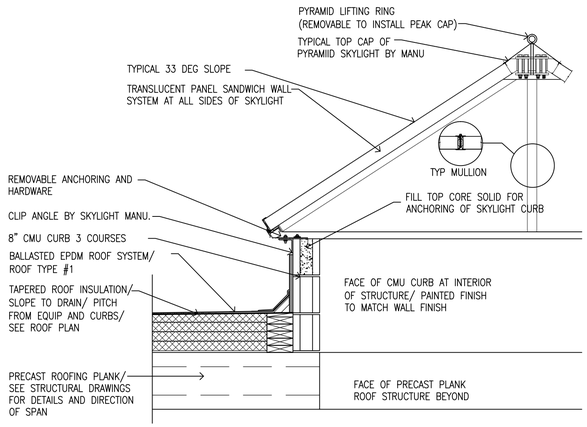
STAIR NO.	LOWER ELEV	UPPER ELEV	OVERALL HT	# OF RISERS	RISER HT
1	409'+4"+4"=409'–8"	416'+4"+7"=416'–11"	7'–3"/87"	13	6.7"
2	413'+4"+6"=413'–10"	416'+4"+7"=416'–11"	3'–1"/37"	6	6.2"
3	416'+4"+3"=416'–7"	425'+4"+6"=425'–10"	9'–3"/111"	16	6.9"

1– LOWER ELEVATION IS ROOF STRUCTURE ELEVATION
+ 4" BASE INSULATION
+ REQUIRED DEPTH OF INSULATION AT LOCATION AT BOTTOM STAIR BASED ON 1/4" : 12 PITCH

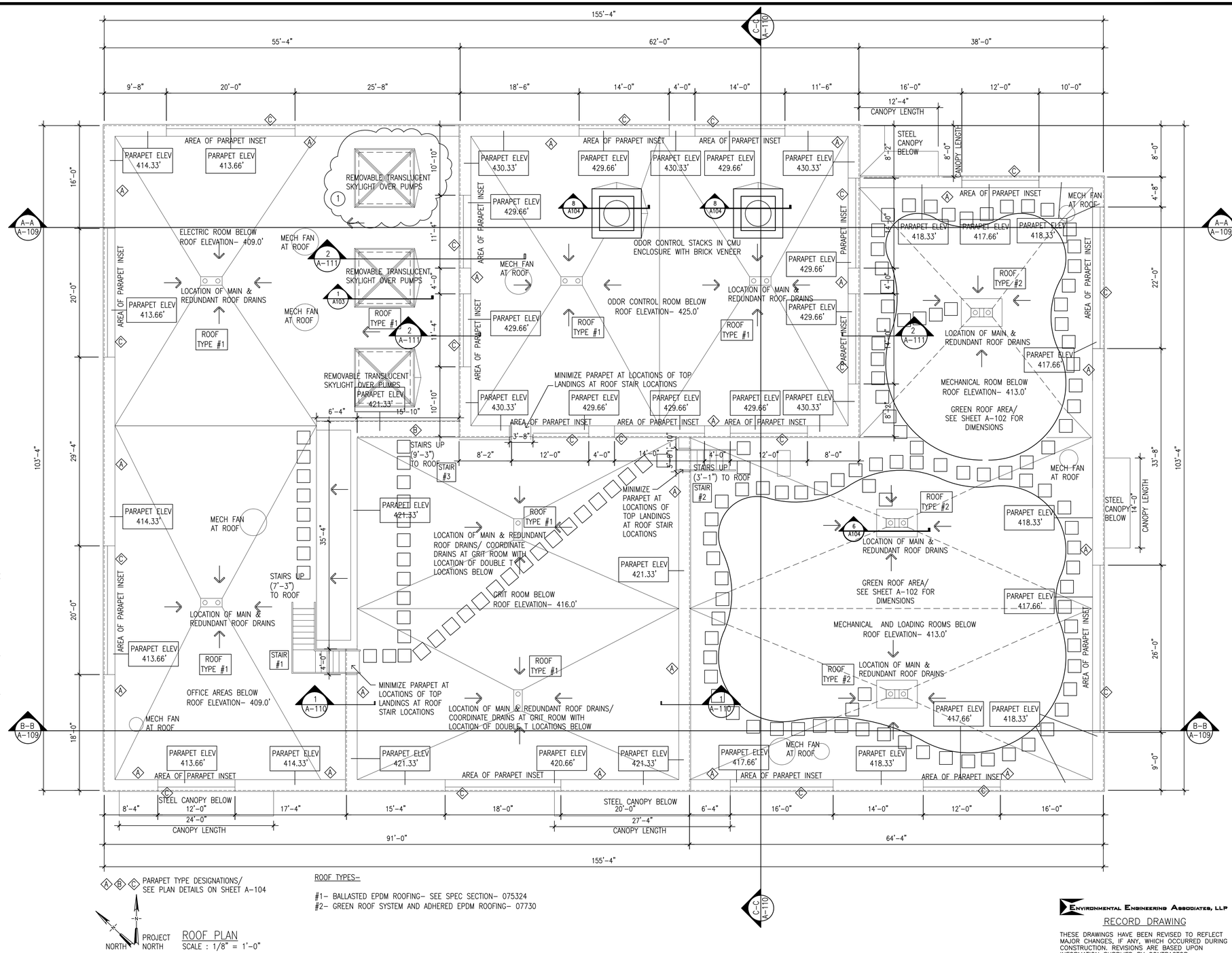
2– UPPER ELEVATION IS ROOF STRUCTURE ELEVATION
+ 4" BASE INSULATION
+ REQUIRED DEPTH OF INSULATION AT LOCATION AT TOP OF STAIR LANDING BASED ON 1/4" : 12 PITCH

3– SEE STAIR DETAILING ON STRUCTURAL SHEET S–005

4– TOP TREAD TO EXTEND OVER LOWERED PARAPET WALL/ THEN THERE WILL BE A STEP DOWN ONTO THE ADJACENT ROOF



1 / A–103 SKYLIGHT CURB AND SECTION
SCALE : 3/4" = 1'–0"



A B C PARAPET TYPE DESIGNATIONS/ SEE PLAN DETAILS ON SHEET A–104

NORTH PROJECT NORTH

ROOF PLAN
SCALE : 1/8" = 1'–0"

ROOF TYPES–

#1– BALLASTED EPDM ROOFING– SEE SPEC SECTION– 075324
#2– GREEN ROOF SYSTEM AND ADHERED EPDM ROOFING– 07730

1 RFI #122; 10–26–2012; BALLESTED EPDM GREEN ROOFS:
1.) A ½" UNDERLAYMENT BOARD IS NOT REQ'D AT THE ROOF IN EITHER AREA. WE DO NOT REQUIRE A GYPSUM OVERLAYMENT @ THE GREEN ROOF ARAEA LOCATION AS INDICATED IN THE SPECIFICATION. AN EXCERPT IS INSERTED BELOW:
"INSTALL MANUFACTURERS VAPOR RETARDER. ADHESIVELY ATTACH POLYISOCYANURATE INSULATION & WATER RESISITANT GYPSUM OVERLAYMENT BOARD w/ SPRAY ADHESIVE. FULLY ADHERE .080 TPO IN ACCORDANCE w/ CURRENT SPEC & DETAILS."
2.) ALL ROOF LOCATIONS WILL HAVE A MINIMUM OF 4" INSULATION @ ROOF DRAIN LOCATIONS & SLOPE TO THE ROOF EDGE/PARAPET FROM THAT LOCATION. INSULATION DEPTHS @ THE OUTSIDE EDGES OF THE ROOF @ THE PARAPET WILL VARY DUE TO THE OVERALL DISTANCE FROM THE ROOF DRAIN TO THE ROOF EDGE

RFI #286; 10–02–2013:
CMU SOAP TO BE USED ON THE NORTH SIDE OF THE NORTH–MOST SKYLIGHT PRECAST OPENING w/ S.S. FASTENERS.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
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1/8"=1'–0" 8' 0 8' 16'
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In charge of SAW
Designed by SAW
Drawn by SAW
Checked by SAW

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SYRACUSE, NEW YORK

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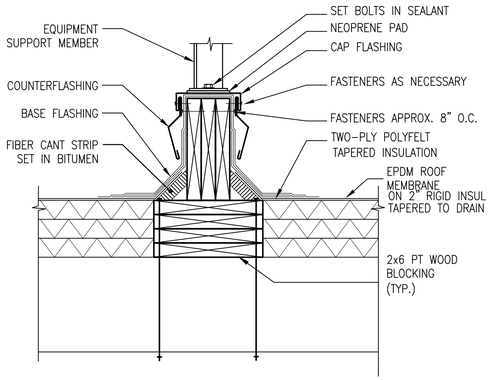
ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

CLINTON STORAGE FACILITY
ROOF PLAN
ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED LICENSED NO. 018477 STATE OF NEW YORK

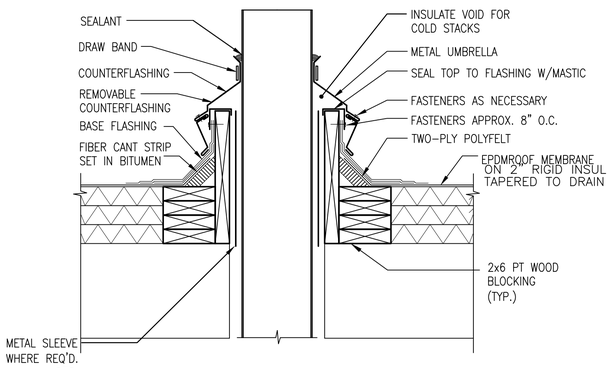
File Number 00663
Date 04/11

A–103



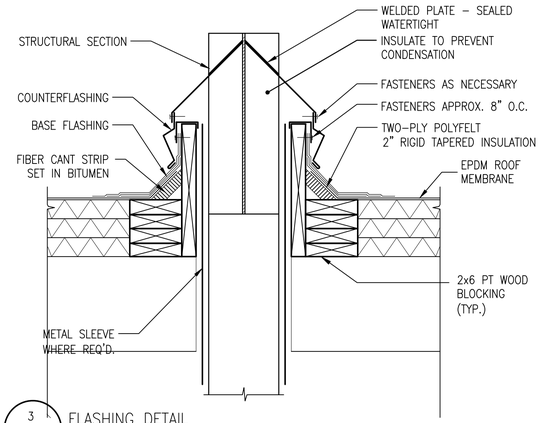
1 / A-104 EQUIPMENT SUPPORT DETAIL

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



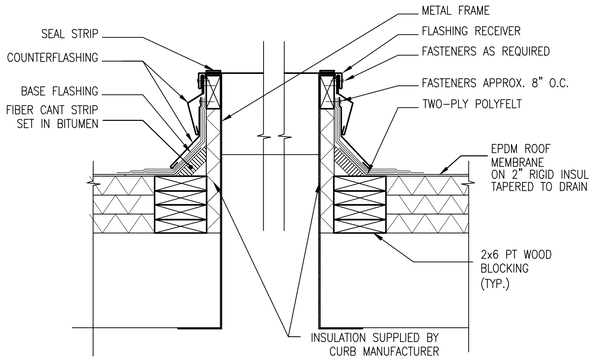
2 / A-104 STACK FLASHING DETAIL

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



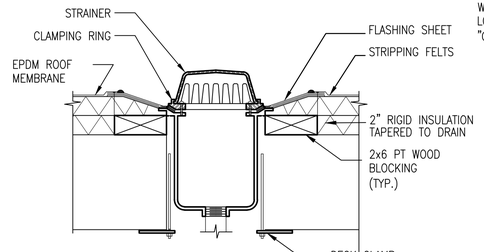
3 / A-104 FLASHING DETAIL

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



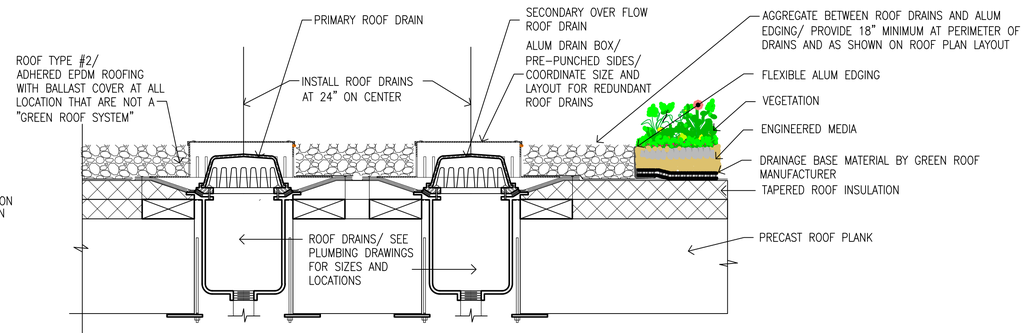
4 / A-104 CURB DETAIL

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



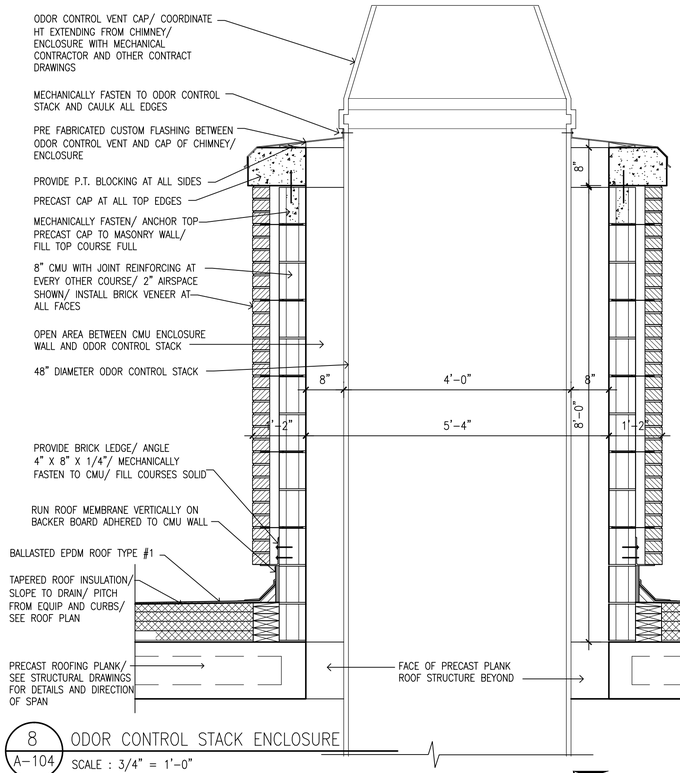
5 / A-104 ROOF DRAIN DETAIL

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



6 / A-104 GREEN ROOF/ DRAIN DETAIL

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

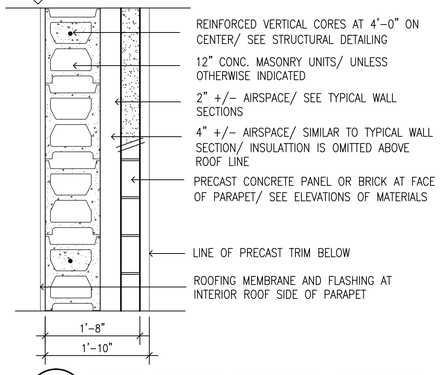


8 / A-104 ODOR CONTROL STACK ENCLOSURE

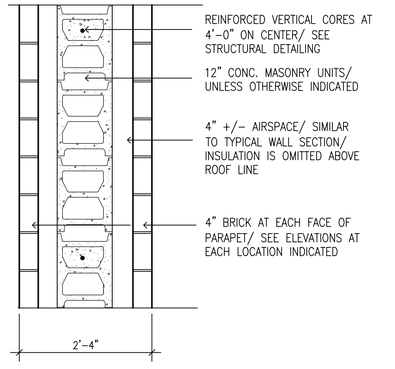
SCALE : 3/4" = 1'-0"

STACK DETAIL ABOVE IS REPRESENTATIVE ON ONE POSSIBLE ODOR CONTROL CONFIGURATION/ COORDINATE FINAL DETAILING AFTER ODOR CONTROL MANUFACTURER IS AWARDED. FOR ANY MANUFACTURER SELECTED THE ODOR CONTROL STACKED WILL BE INSTALLED IN A SIMILAR MASONRY AND BRICK "CHIMNEY" WITH A PRECAST CAP

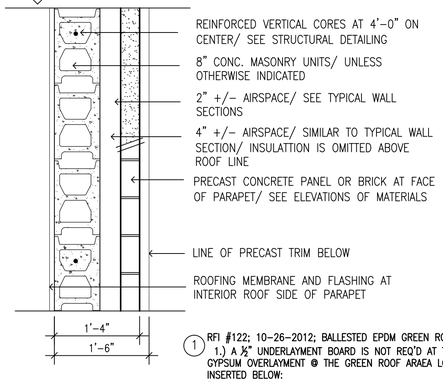
A TYPICAL EXTERIOR PARAPET



B TYPICAL INTERIOR PARAPET PLAN DETAIL



C TYPICAL EXTERIOR PLAN DETAIL AT INSET



7 / A-104 TYPICAL PARAPET PLAN DETAIL CONDITIONS

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

1 RFI #122; 10-26-2012; BALLESTED EPDM GREEN ROOFS:
1.) A ½" UNDERLAYMENT BOARD IS NOT REQ'D AT THE ROOF IN EITHER AREA. WE DO NOT REQUIRE A GYPSUM OVERLAYMENT @ THE GREEN ROOF ARAEA LOCATION AS INDICATED IN THE SPEC. AN EXCERPT IS INSERTED BELOW:
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2.) ALL ROOF LOCATIONS WILL HAVE A MINIMUM OF 4" INSULATION @ ROOF DRAIN LOCATIONS & SLOPE TO THE ROOF EDGE/PARAPET FROM THAT LOCATION. INSULATION DEPTHS @ THE OUTSIDE EDGES OF THE ROOF @ THE PARAPET WILL VARY DUE TO THE OVERALL DISTANCE FROM THE ROOF DRAIN TO THE ROOF EDGE.
RFI #286; 10-02-2013:
CMU SOAP TO BE USED ON THE NORTH SIDE OF THE NORTH-MOST SKYLIGHT PRECAST OPENING w/ S.S. FASTENERS.

L: ON=*; OFF=*REF*
X:
7/3-/10 G1D SAW
DIR/DWG

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

1 1/2"=1'-0" 1' 6" 0 1'

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1	01/11	95% DESIGN SUBMITTAL	

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

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

GROUP 1 DESIGN
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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

CLINTON STORAGE FACILITY
ROOF DETAILS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED No. 018471 STATE OF NEW YORK

File Number 00663
Date 04/11

A-104

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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EXTERIOR FINISH SELECTIONS AND COLORS

MAIN BRICK COLOR – CAROLINA CERAMICS/ CHESTNUT SMOOTH/ VARIEGATED
MODULAR SIZE. MATCH ARCHITECT'S SAMPLE. STANDARD/ NATURAL MORTAR COLOR

ACCENT BRICK COLOR – TO BE GLAZED BRICK COLOR # TO BE SELECTED
ALL INSETS TO BE SOLID COLOR/ INSET 1/2" FROM MAIN FACE
MODULAR SIZE. MATCH ARCHITECT'S SAMPLE. STANDARD/ NATURAL MORTAR COLOR. PRODUCT SIMILAR TO ELGIN BUTLER GLAZED BRICK

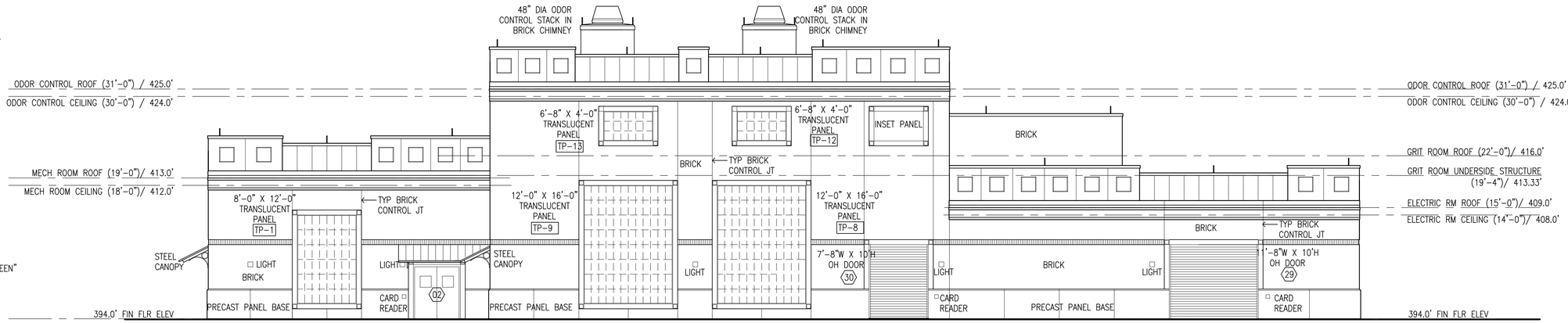
ARCHITECTURAL PRECAST CONCRETE PANELS– COLORS TO BE SELECTED–
COLOR #1 TO BE MAIN PRECAST PANEL COLOR AT LOCATIONS AS INDICATED ON THE ELEVATIONS AND DETAILS
COLOR #2 TO BE ACCENT COLOR PRECAST AT LOCATIONS AS SHOWN ON THE ELEVATIONS AND DETAILS
MATCH ARCHITECTS SAMPLES AND SIZES AS SHOWN/ COLOR RANGE TO BE CREAM/ BEIGE RANGE. SUBMIT SHOP DRAWINGS OF JOINT LOCATIONS/ COORDINATE JOINTS WITH OTHER ARCHITECTURAL DETAILING SHOWN

MECHANICAL LOUVERS AND VENTS– MATCH ARCH. SAMPLE TO BE "FOREST GREEN"

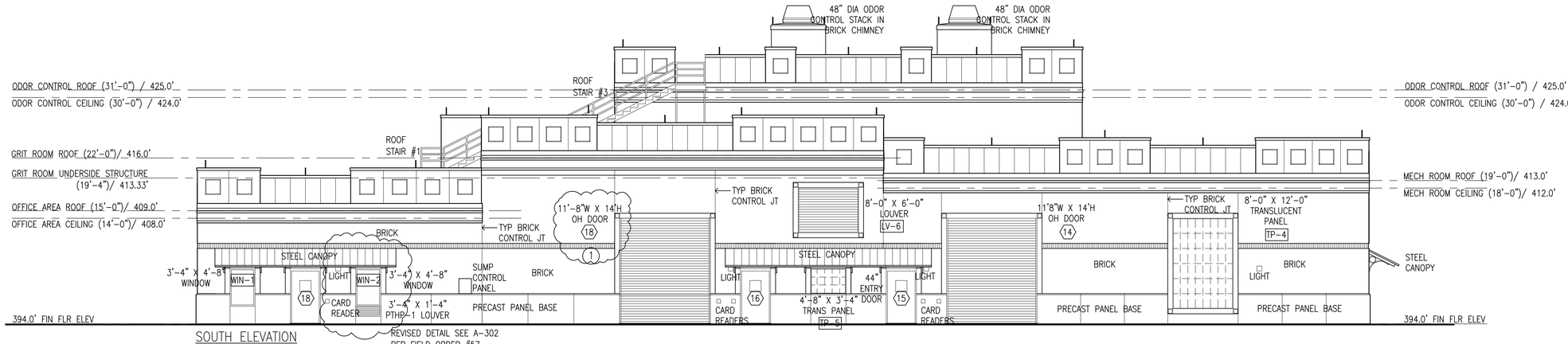
STEEL/METAL ROOF AND DECORATIVE BRACKETS TO BE BLACK

(1) RFI #185; 3–27–2013; OVERHEAD COILING DOORS:
ON DRAWING SHEET A–105, THE OHCD NOTED ON THIS ELEVATION AS #18 SHOULD BE LABELED #17.

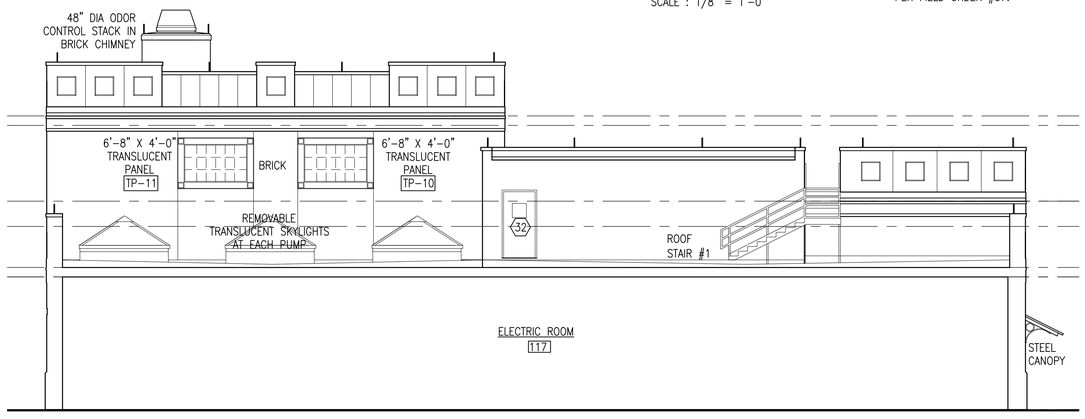
(2) RFI #299; 10–18–2013:
DELETE THIRD INSET PANEL & RELOCATE REMAINING TWO PANELS.



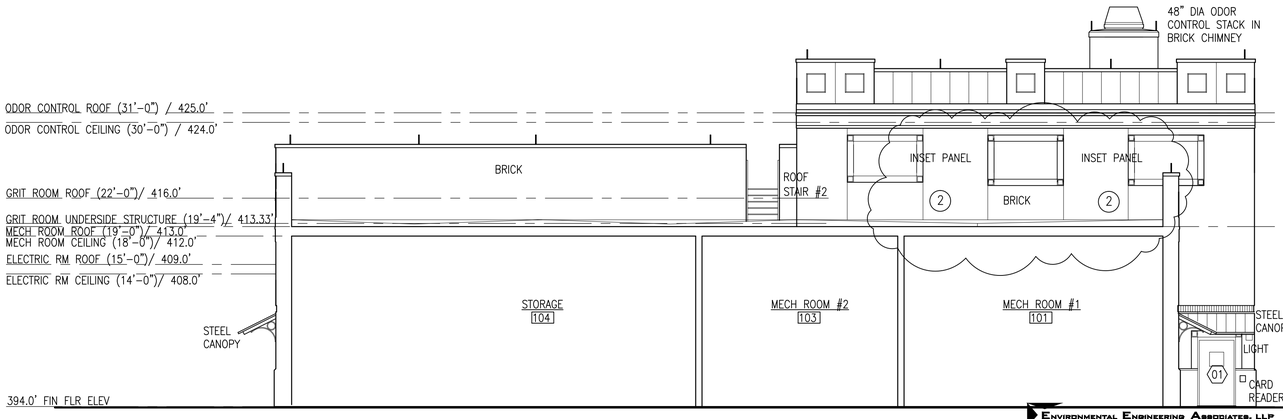
NORTH ELEVATION
SCALE : 1/8" = 1'–0"



SOUTH ELEVATION
SCALE : 1/8" = 1'–0"
REVISED DETAIL SEE A–302 PER FIELD ORDER #57.



WEST ELEVATION– ROOF LEVEL WALLS
SCALE : 1/8" = 1'–0"



EAST ELEVATION– ROOF LEVEL WALLS
SCALE : 1/8" = 1'–0"

L: ON=*; OFF=*REF*
X:
7/3–/10 G1D SAW
DIR/DWG

1/8"=1'–0" (8' 0 8' 16')

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

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SYRACUSE, NEW YORK

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

CLINTON STORAGE FACILITY
BUILDING ELEVATIONS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED 018471 STATE OF NEW YORK

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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A–105

EXTERIOR FINISH SELECTIONS AND COLORS

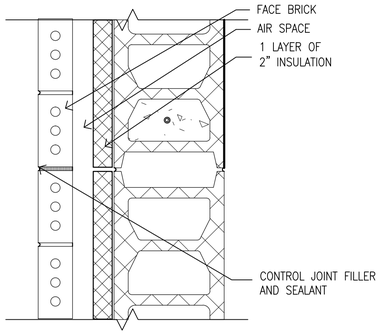
MAIN BRICK COLOR – CAROLINA CERAMICS/ CHESTNUT SMOOTH/ VARIEGATED
MODULAR SIZE. MATCH ARCHITECT'S SAMPLE. STANDARD/ NATURAL MORTAR COLOR

ACCENT BRICK COLOR – TO BE GLAZED BRICK COLOR # TO BE SELECTED
ALL INSETS TO BE SOLID COLOR/ INSET 1/2" FROM MAIN FACE
MODULAR SIZE. MATCH ARCHITECT'S SAMPLE. STANDARD/ NATURAL MORTAR COLOR. PRODUCT SIMILAR TO ELGIN BUTLER GLAZED BRICK

ARCHITECTURAL PRECAST CONCRETE PANELS– COLORS TO BE SELECTED–
COLOR #1 TO BE MAIN PRECAST PANEL COLOR AT LOCATIONS AS INDICATED ON THE ELEVATIONS AND DETAILS
COLOR #2 TO BE ACCENT COLOR PRECAST AT LOCATIONS AS SHOWN ON THE ELEVATIONS AND DETAILS
MATCH ARCHITECTS SAMPLES AND SIZES AS SHOWN/ COLOR RANGE TO BE CREAM/ BEIGE RANGE. SUBMIT SHOP DRAWINGS OF JOINT LOCATIONS/ COORDINATE JOINTS WITH OTHER ARCHITECTURAL DETAILING SHOWN

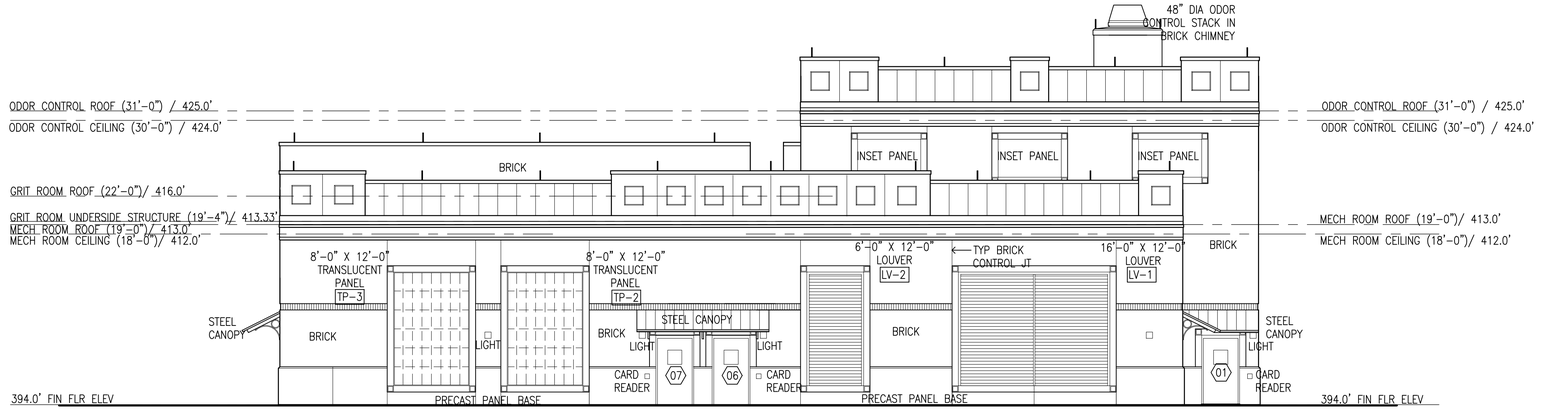
MECHANICAL LOUVERS AND VENTS– MATCH ARCH. SAMPLE TO BE "FOREST GREEN"

STEEL/METAL ROOF AND DECORATIVE BRACKETS TO BE BLACK

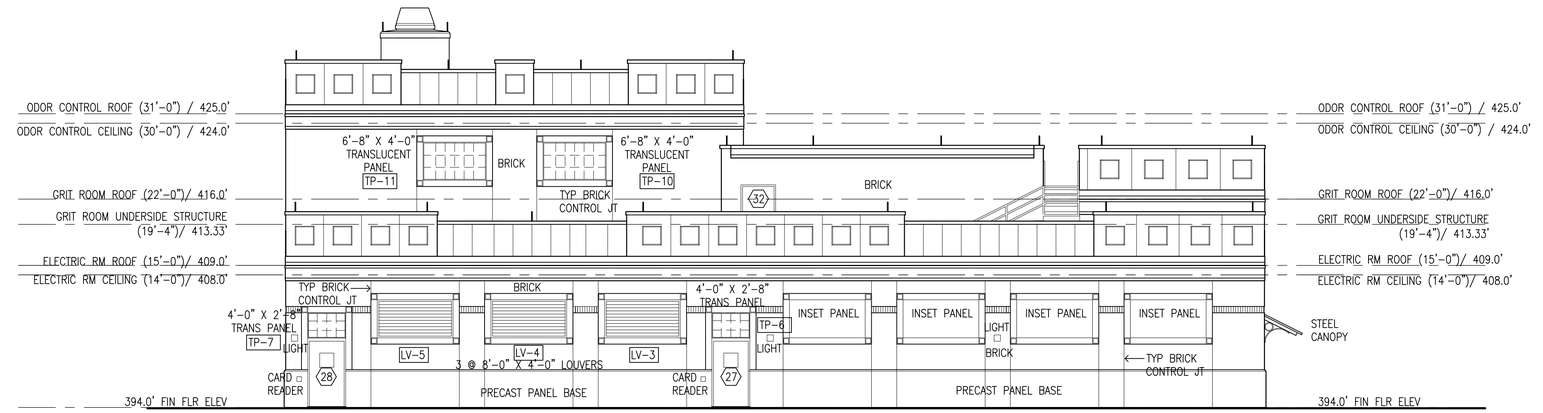


1 / A106 CONTROL JOINT PLAN DETAIL
SCALE : 1–1/2" = 1'–0"

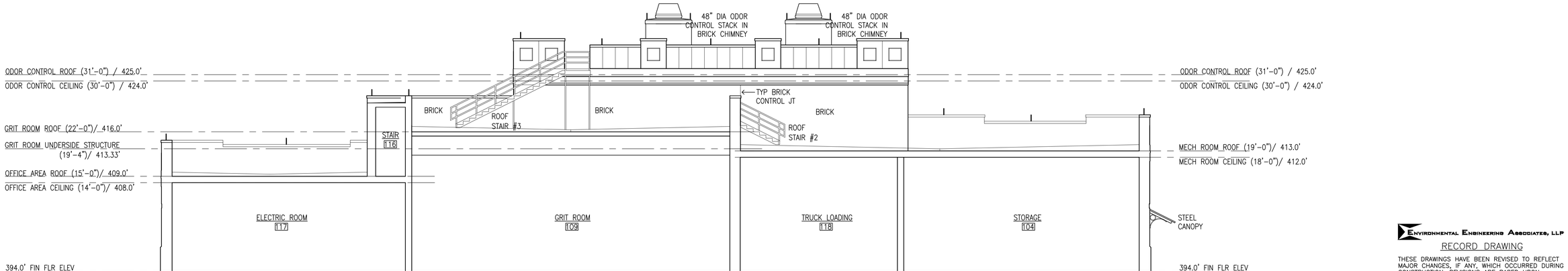
SEE DETAILS AND INFORMATION ON STRUCTURAL SHEET S–003, FOR INFORMATION ON CONTROL JOINTS IN CONC MASONRY BLOCK BACK UP WALLS/ CMU CONTROL JOINTS MAY NOT ALIGN WITH CONTROL JOINTS IN THE BRICK VENEER



EAST ELEVATION
SCALE : 1/8" = 1'–0"



WEST ELEVATION
SCALE : 1/8" = 1'–0"



SOUTH ELEVATION– ROOF LEVEL WALLS
SCALE : 1/8" = 1'–0"

L: ON=*; OFF=*REF*
X:
7/3–/10 G1D SAW
DIR/DWG

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
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: 03/15 PER: SAW

1 1/2"=1'–0" (1' 6" 0 1')
1/8"=1'–0" (8' 0 8' 16')

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.

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2	04/11	AS BID	
1	01/11	ISSUED FOR APPROVAL	

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

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

GROUP 1 DESIGN
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315-434-1844 / FAX 434-1845

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

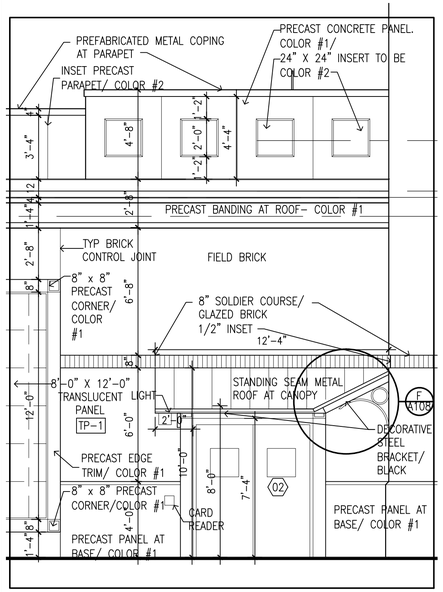
CLINTON STORAGE FACILITY BUILDING ELEVATIONS

ARCHITECTURAL

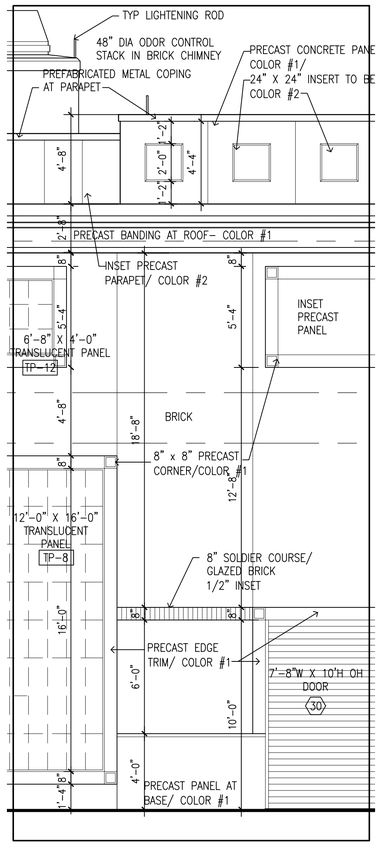
REGISTERED ARCHITECT SHEILA A. WEED STATE OF NEW YORK 018477

File Number 00663
Date 04/11

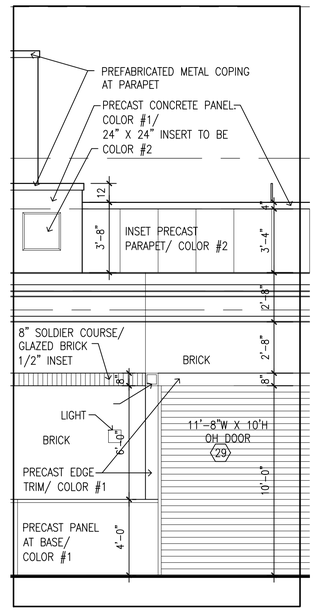
A–106



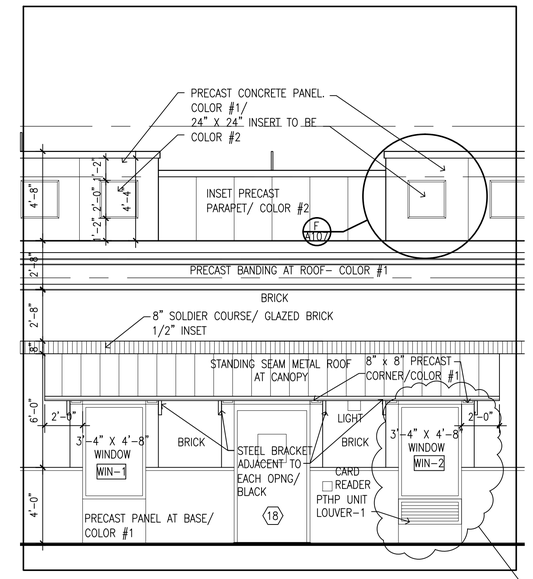
A MECH ROOM AREA
SCALE : 1/4" = 1'-0"



B ODOR CONTROL ROOM AREA
SCALE : 1/4" = 1'-0"

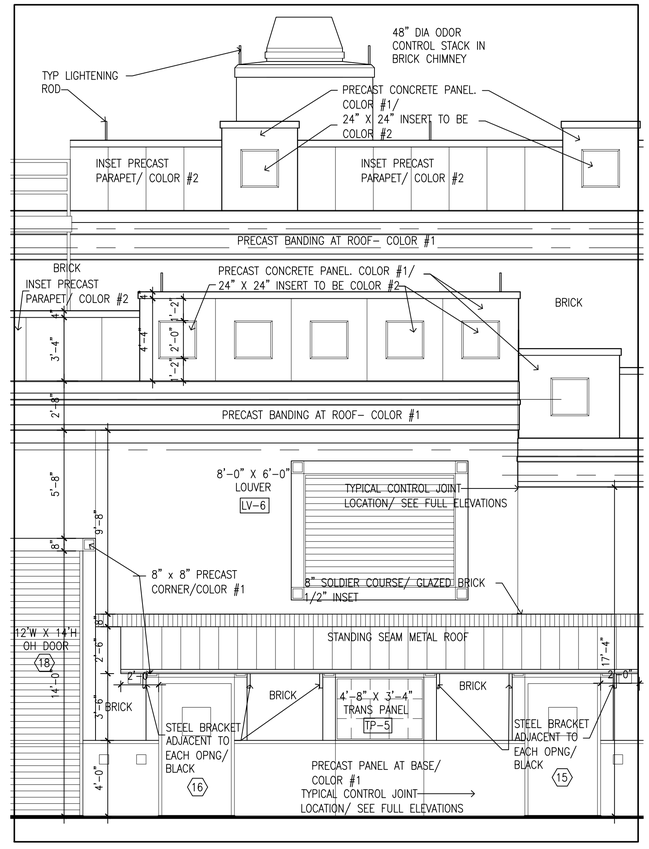


C ELECTRIC ROOM AREA
SCALE : 1/4" = 1'-0"

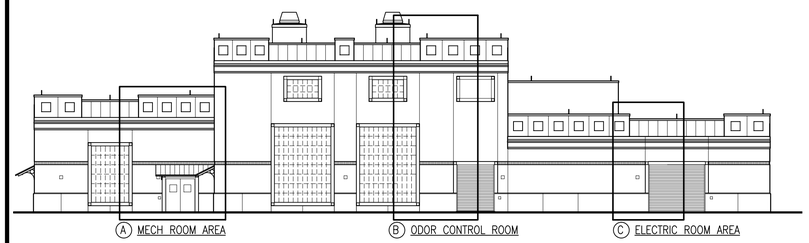


D OFFICE ENTRY AREA
SCALE : 1/4" = 1'-0"

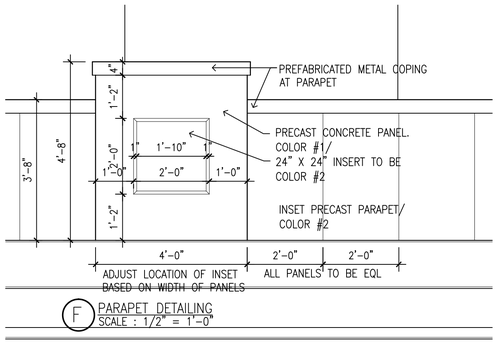
ENGINEERS FIELD ORDER #57; 12-24-2013: SEE REVISED WINDOW DETAIL ON DRAWING A-302.



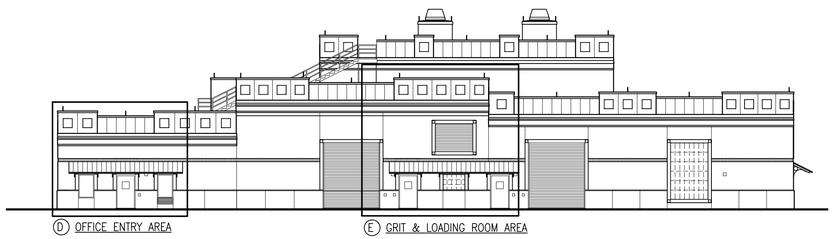
E GRIT & LOADING ROOM AREA
SCALE : 1/4" = 1'-0"



NORTH ELEVATION– KEY PLAN
SCALE : 1/16" = 1'-0"



F PARAPET DETAILING
SCALE : 1/2" = 1'-0"



SOUTH ELEVATION– KEY PLAN
SCALE : 1/16" = 1'-0"

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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L: ON=*; OFF=*REF*
X:
7/3-/10 G1D SAW
DIR/DWG

1/4"=1'-0" 4' 0 4' 8'
1/16"=1'-0" 16' 0 16' 32'

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

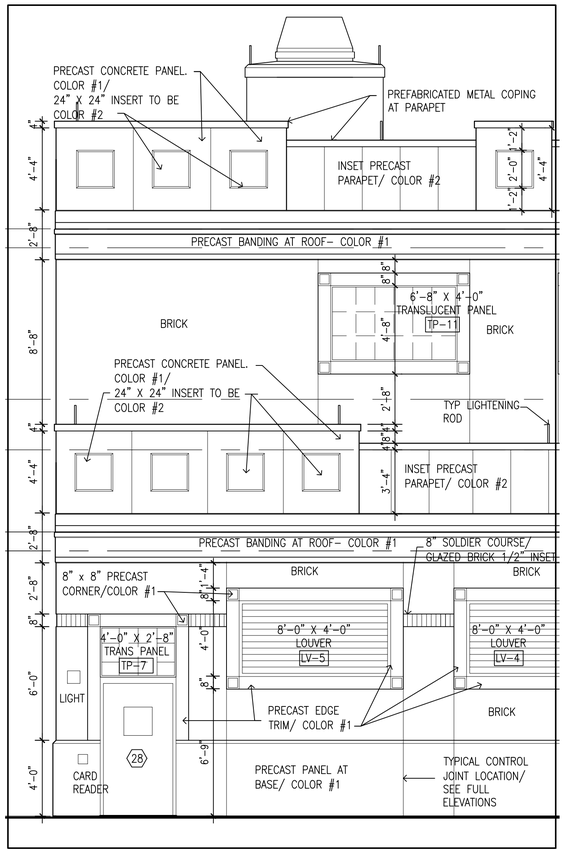
CLINTON STORAGE FACILITY BUILDING ELEVATION DETAILS

ARCHITECTURAL

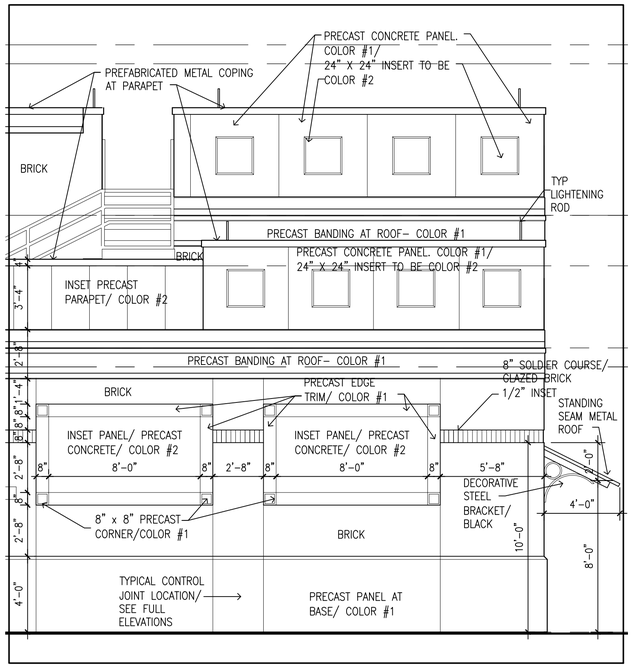
REGISTERED ARCHITECT SHEILA A. WEED LIC. NO. 018471 STATE OF NEW YORK

File Number 00663
Date 04/11

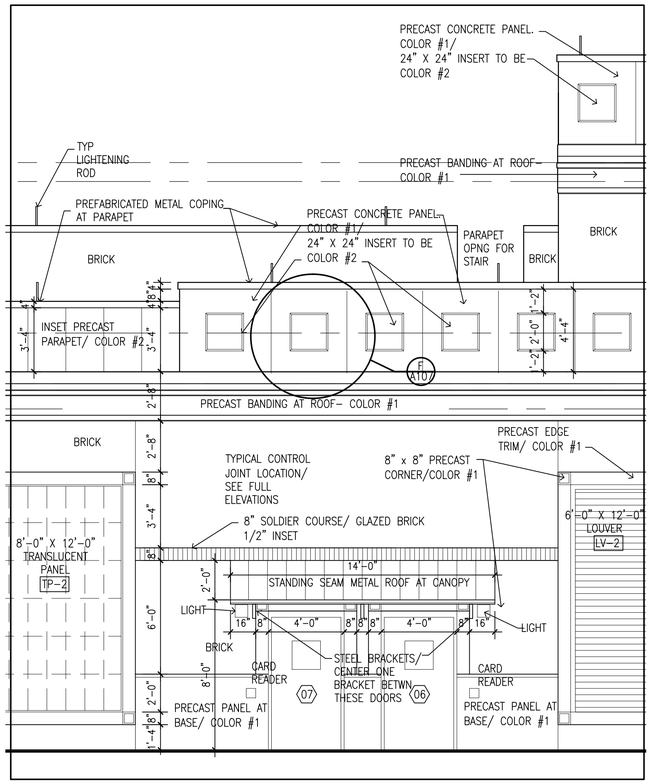
A-107



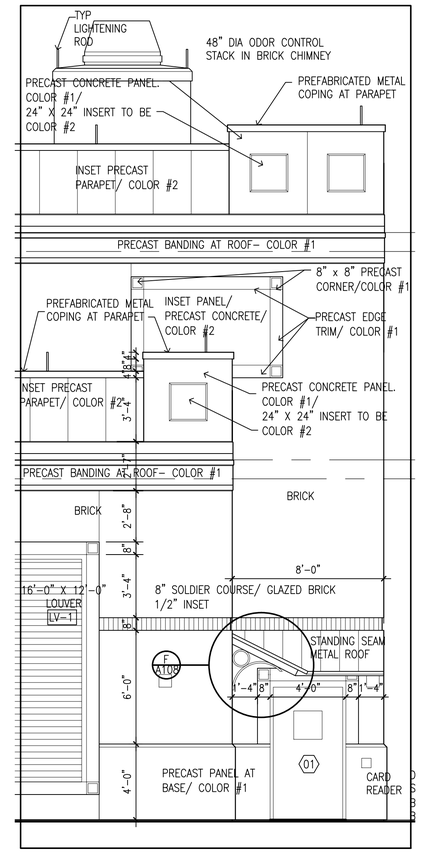
A ELECTRIC ROOM AREA
SCALE : 1/4" = 1'–0"



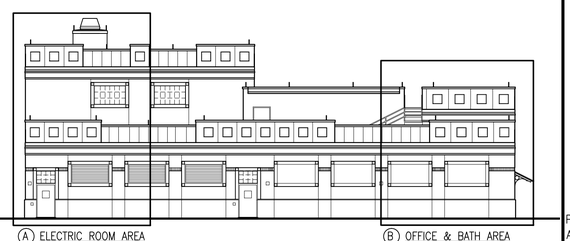
B OFFICE AND BATH ROOM AREA
SCALE : 1/4" = 1'–0"



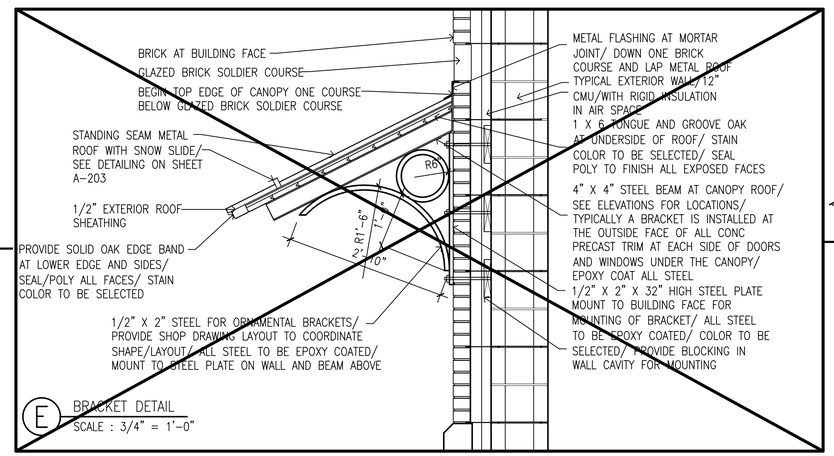
C STORAGE & MECH ROOM AREA
SCALE : 1/4" = 1'–0"



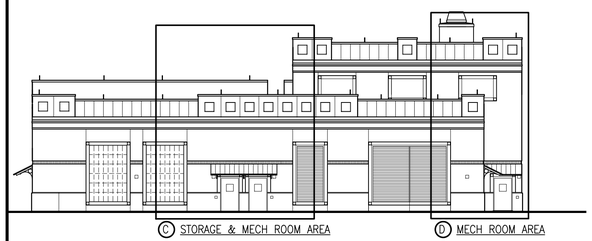
D MECH ROOM AREA
SCALE : 1/4" = 1'–0"



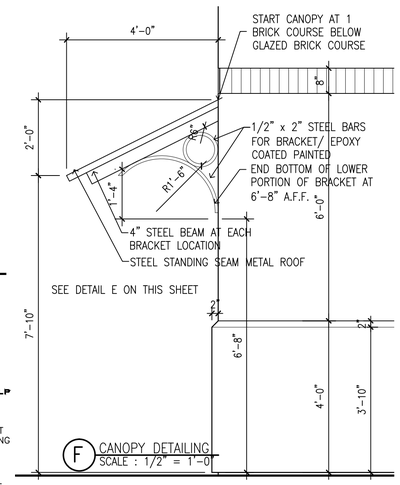
WEST ELEVATION– KEY PLAN
SCALE : 1/16" = 1'–0"



E BRACKET DETAIL
SCALE : 3/4" = 1'–0"



EAST ELEVATION– KEY PLAN
SCALE : 1/16" = 1'–0"



F CANOPY DETAILING
SCALE : 1/2" = 1'–0"

ENGINEERS FIELD ORDER #40; 7–08–2013:
REFER TO DRAWING A–108A FOR NEW BRACKET DETAIL

RFI #241; 7–30–2014:
REFER TO FIELD ORDER #40

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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7/3–/10 G1D SAW
DIR/DWG

1/4"=1'–0" 4' 0 4' 8'
1/16"=1'–0" 16' 0 16' 32'

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Designed by SAW
Drawn by SAW
Checked by SAW

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

GROUP 1 DESIGN
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315-434-1844 / FAX 434-1845

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

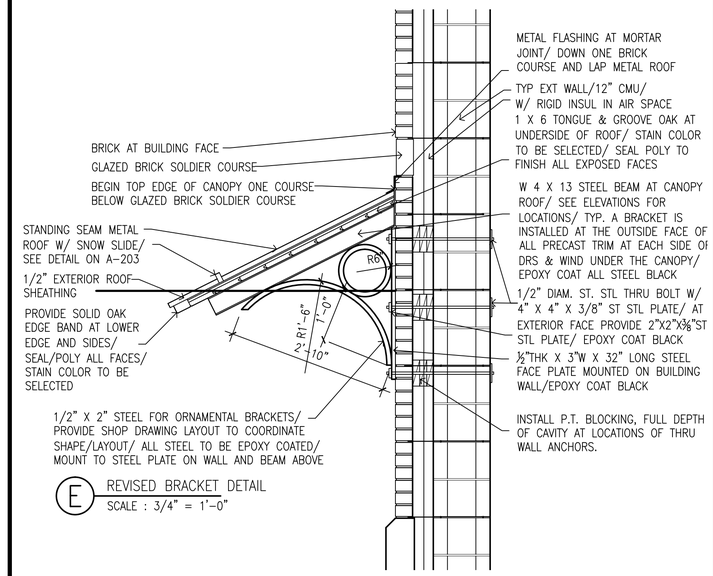
CLINTON STORAGE FACILITY
BUILDING ELEVATION DETAILS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED No. 018471 STATE OF NEW YORK

File Number 00663
Date 04/11

A–108



E REVISED BRACKET DETAIL
SCALE : 3/4" = 1'-0"

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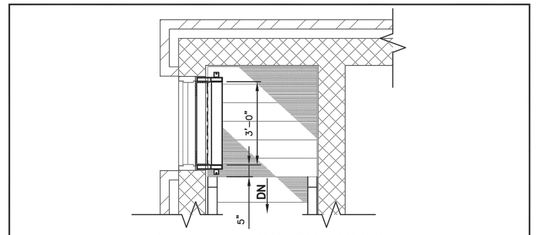
SYRACUSE, NEW YORK

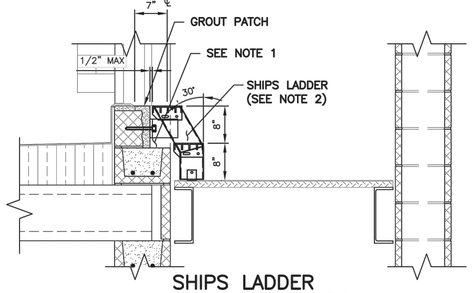
ONONDAGA COUNTY
DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

FIELD ORDER NO. 40 | FIGURE 1
A-108

FIELD ORDER #40



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



SHIPS LADDER AT ROOF ACCESS DOOR
SCALE: 3/4" = 1'-0"

NOTES:

1. CUT OUT EXISTING MASONRY TO ALLOW FOR INSTALLATION OF SHIPS LADDER.
2. REFER TO SHIPS LADDER SECTION ON SHEET S-005 FOR ALL DETAILS.

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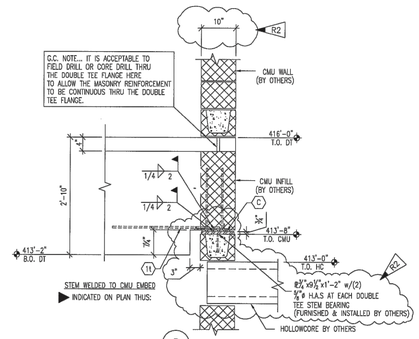
CLINTON CSO STORAGE FACILITY PROJECT

RFP NO. 34 | FIGURE 1

RFP #34



RFI #264

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING

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X:
7/3-/10 G1D SAW
DIR/DWG

1/4"=1'-0" (4' 0 4' 8')
1/16"=1'-0" (16' 0 16' 32')

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Drawn by SAW
Checked by SAW

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SYRACUSE, NEW YORK

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

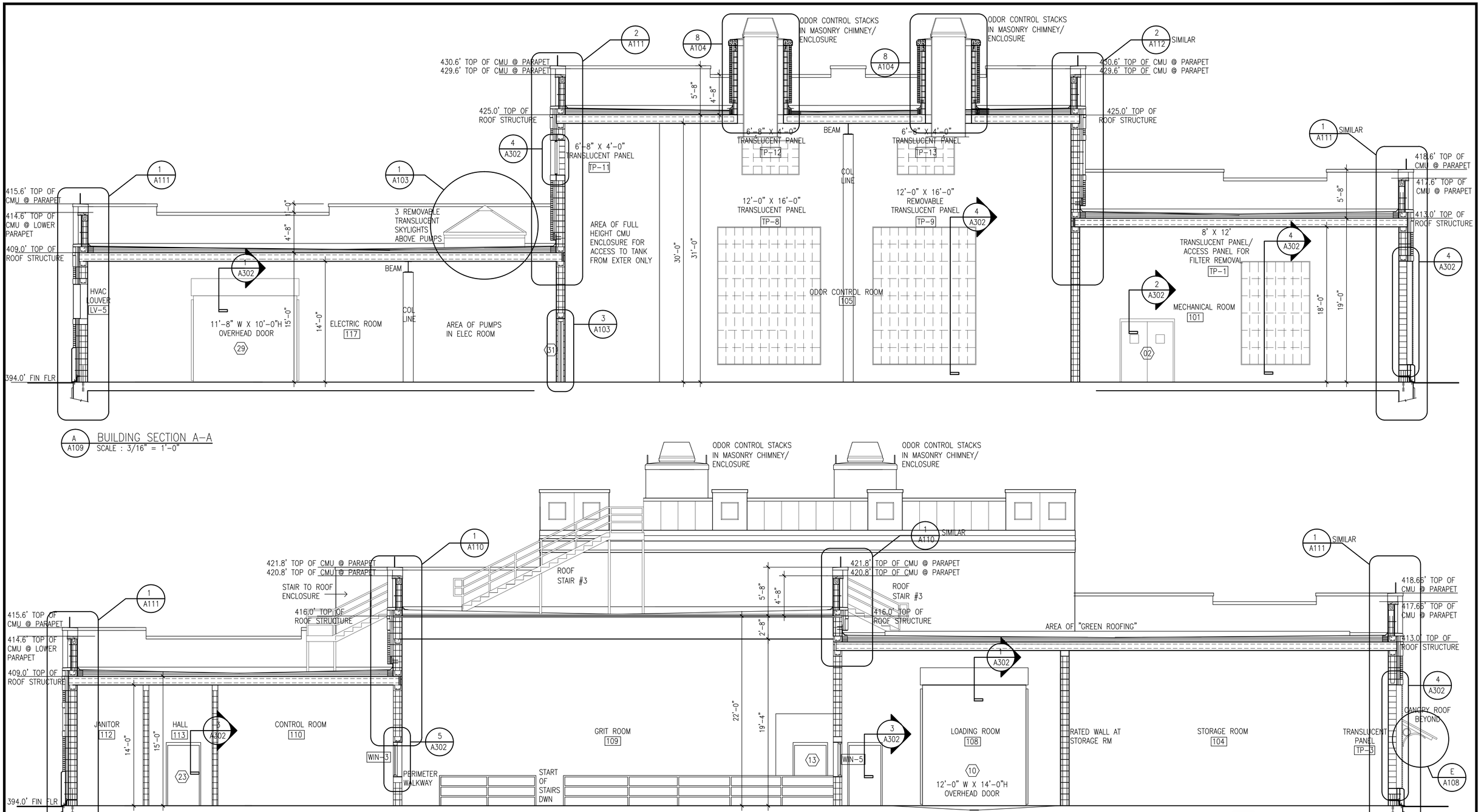
CLINTON STORAGE FACILITY BUILDING ELEVATION DETAILS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED No. 018417 STATE OF NEW YORK

File Number 00663
Date 04/11

A-108A



L: ON=*; OFF=REF
X:
7/3-/10 G1D SAW
DIR/DWG

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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3/16"=1'-0" 4' 0 6' 12'

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

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Designed by SAW
Drawn by SAW
Checked by SAW

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

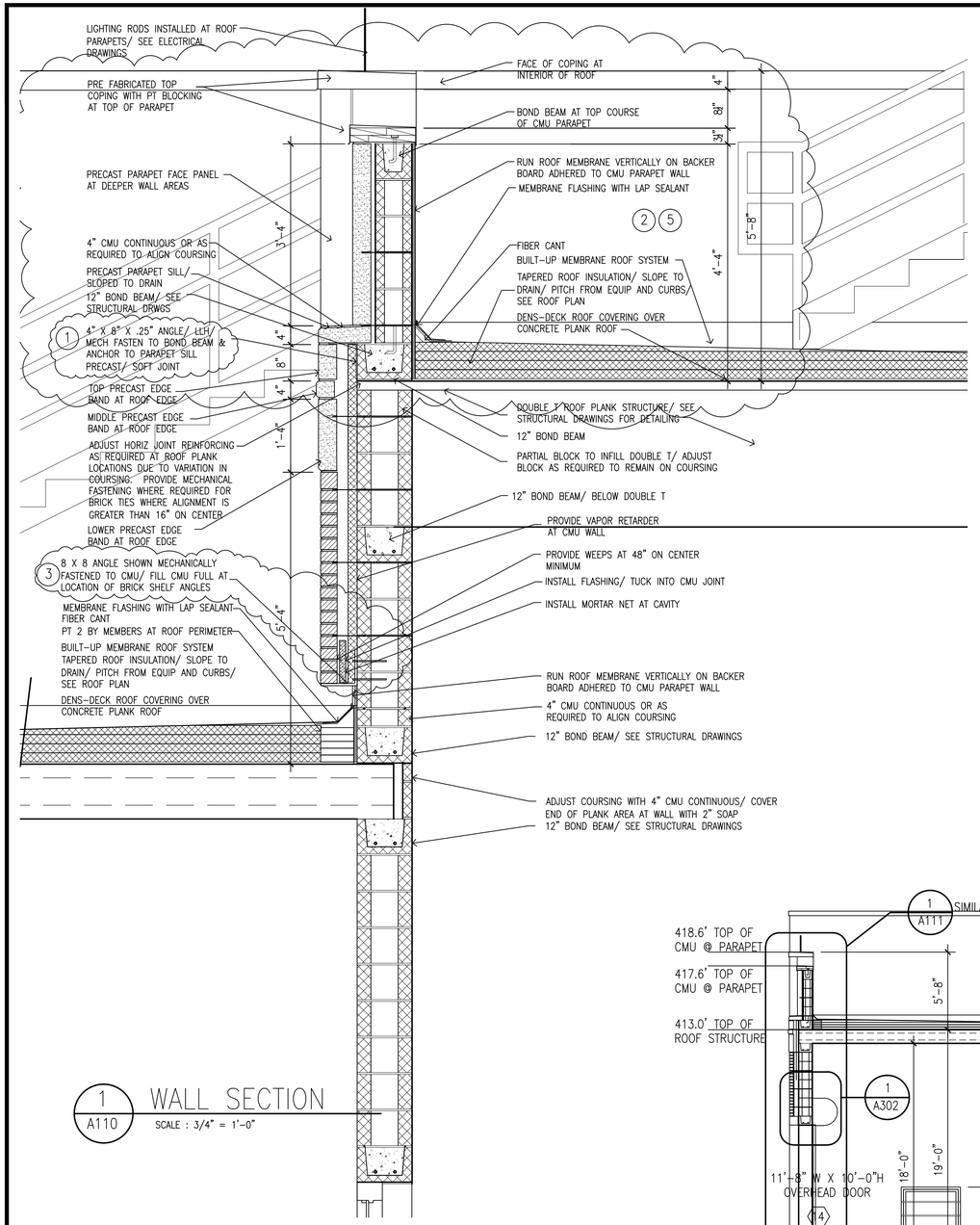
CLINTON STORAGE FACILITY
BUILDING SECTIONS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED 018471 STATE OF NEW YORK

File Number 00663
Date 04/11

A-109



1 A110 WALL SECTION
SCALE : 3/4" = 1'-0"

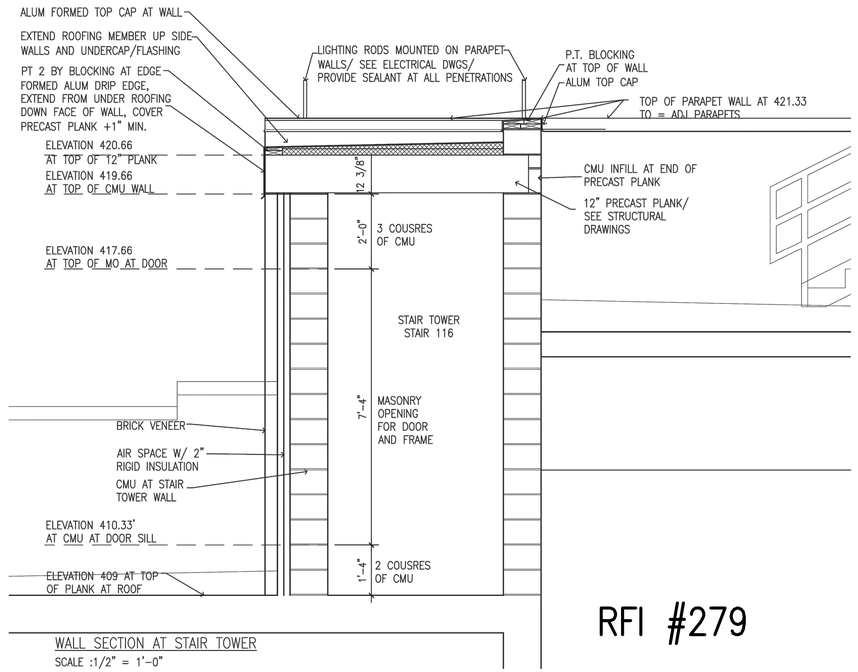
1. RFI #116; 1-11-2013:
8" x 8" x 3/8"

2. RFI #272; 8-28-2013; CARLISLE ROOFING RECOMMENDATIONS:
ITEM No 1 – ANCHOR BOLT LENGTH OF 6" IS ACCEPTABLE, BUT THIS LENGTH SHOULD BE VERIFIED FOR VARYING CONDITIONS. ALL BLOCKING IS TO BE PRESSURE TREATED.
ITEM No. 2 & 3 – THIS STATEMENT IS ACCEPTABLE. COMPLY WITH CARLISLE DESIGN DETAILS TO MEET COMPANY REQUIREMENTS AND COMPLY WITH WARRANTY REQUIREMENTS.

3. RFI #275; 9-05-2013; BRICK SHELF ANGLE:
– IT WOULD NOT BE ACCEPTABLE TO UTILIZE AN L8x4 SHELF ANGLE AS PROPOSED. THE 8" VERT LEG IS NEEDED STRUCTURAL STABILITY, THEREFORE, IT CAN'T BE SHORTENED.
– CONTRACTOR SHALL NOTE THAT ALL THESE SHELF ANGLES SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE SIZED AND ATTACHED IN ACCORDANCE WITH THE SHELF/ANGLE DETAILS PROVIDED ON CONTRACT DRAWING S-003.

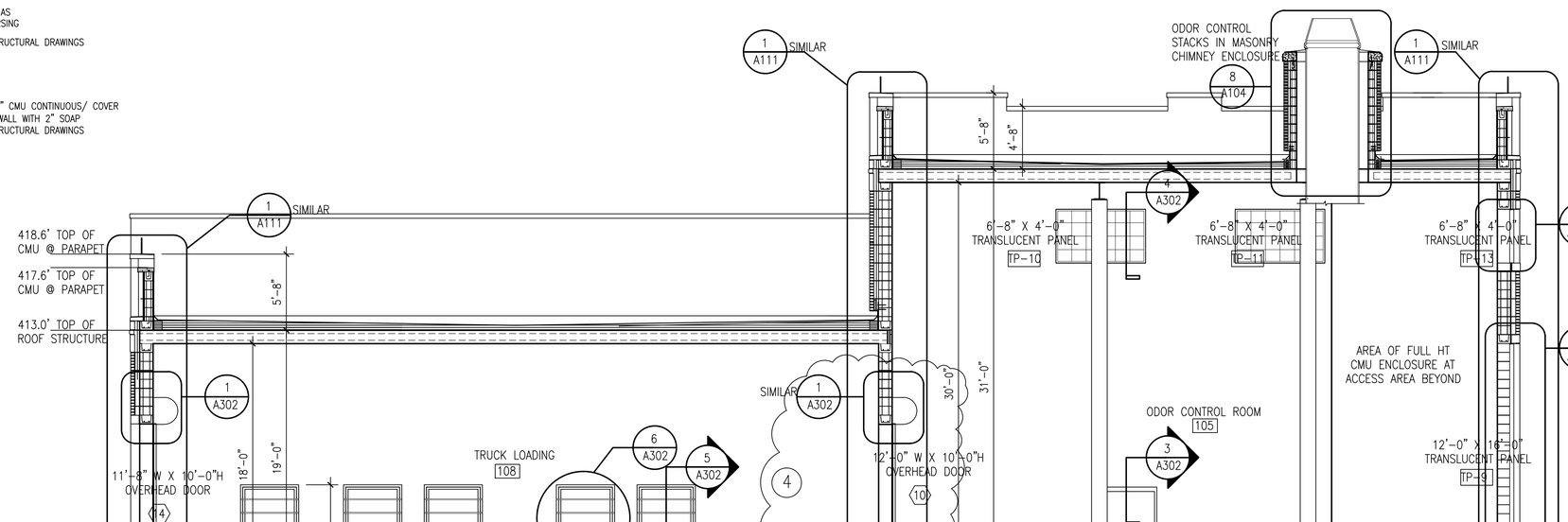
4. RFI #301; 10-23-2013; OVERHEAD COILING DOOR CONFLICT WITH DUCTWORK:
IT IS ACCEPTABLE TO INSTALL/MOUNT OVERHEAD DOOR No. 10 ON THE OPPOSITE SIDE OF THE WALL, WITH-IN THE TRUCK LOADING ROOM 108.

5. RFI #279; 8-30-2013; DRAWING A-101; PRECAST ELEV ABOVE STAIRS:
SEE DRAWING THIS SHEET



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

RFI #279



C A110 BUILDING SECTION C-C
SCALE : 3/16" = 1'-0"

L: ON=*; OFF=*REF*
X:
7/3-/10 G1D SAW
DIR/DWG

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
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3/16"=1'-0" 4' 0 6' 12'

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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

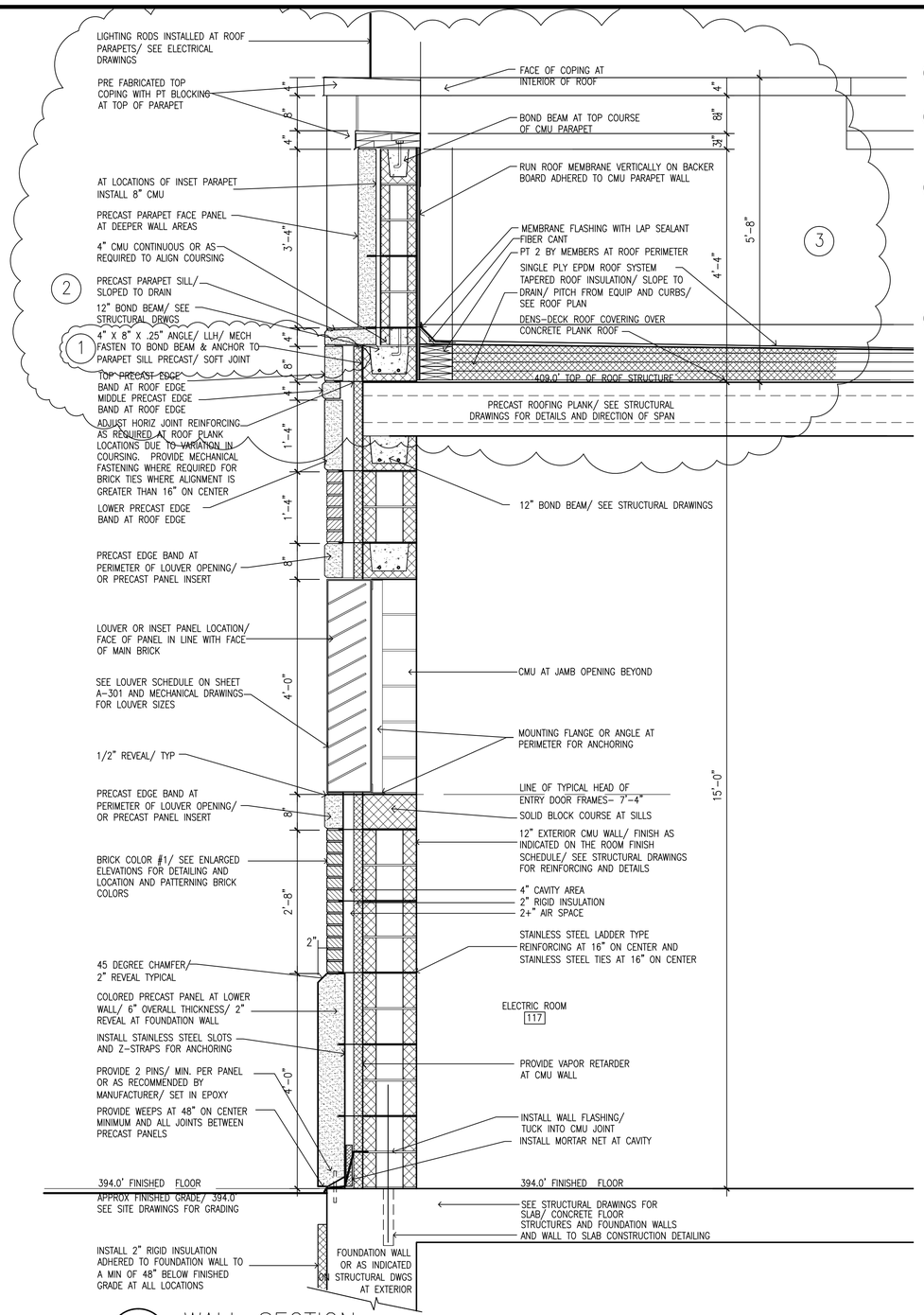
ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

CLINTON STORAGE FACILITY
BUILDING SECTIONS
ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED 018417 STATE OF NEW YORK

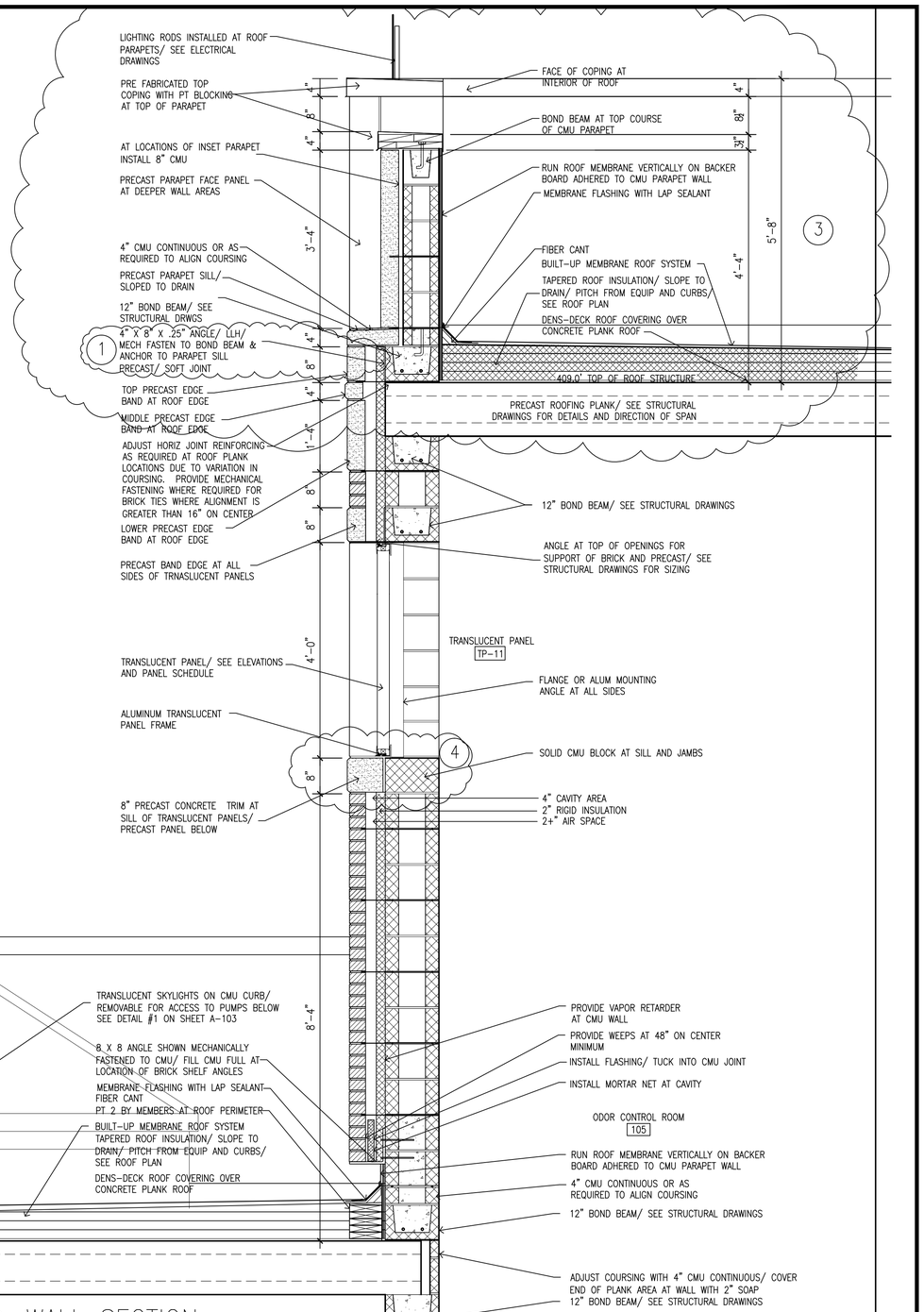
File Number 00663
Date 04/11

A-110



1 WALL SECTION
1/A111
SCALE : 3/4" = 1'-0"

1. RFI #116; 1-11-2013: 8" x 8" x 3/8"
2. RFI #129; 1-11-2013: TO SUPPORT THE LOUVER IN THE OPENING REFER TO SHEET S-003 PARAPET SHELF ANGLE. THE ANGLE WILL BE 4"x8" IN LIEU OF 8"x8" NOTED IN THE DETAIL.
3. RFI #272; 8-28-2013; CARLISLE ROOFING RECOMMENDATIONS: ITEM No 1 – ANCHOR BOLT LENGTH OF 6" IS ACCEPTABLE, BUT THIS LENGTH SHOULD BE VERIFIED FOR VARYING CONDITIONS. ALL BLOCKING IS TO BE PRESSURE TREATED. ITEM No. 2 & 3 – THIS STATEMENT IS ACCEPTABLE. COMPLY WITH CARLISLE DESIGN DETAILS TO MEET COMPANY REQUIREMENTS AND COMPLY WITH WARRANTY REQUIREMENTS. SEE ALSO DETAILS ON SHEET A-110
4. RFI #251; 7-30-2013: SUPPORT ANGLE REQUIRED-SEE FIELD ORDER #43.



2 WALL SECTION
2/A111
SCALE : 3/4" = 1'-0"

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 03/15 PER: SAW

L: ON=*; OFF=*REF*
X:
7/3-/10 G1D SAW
DIR/DWG

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

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CLINTON CSO STORAGE FACILITY PROJECT

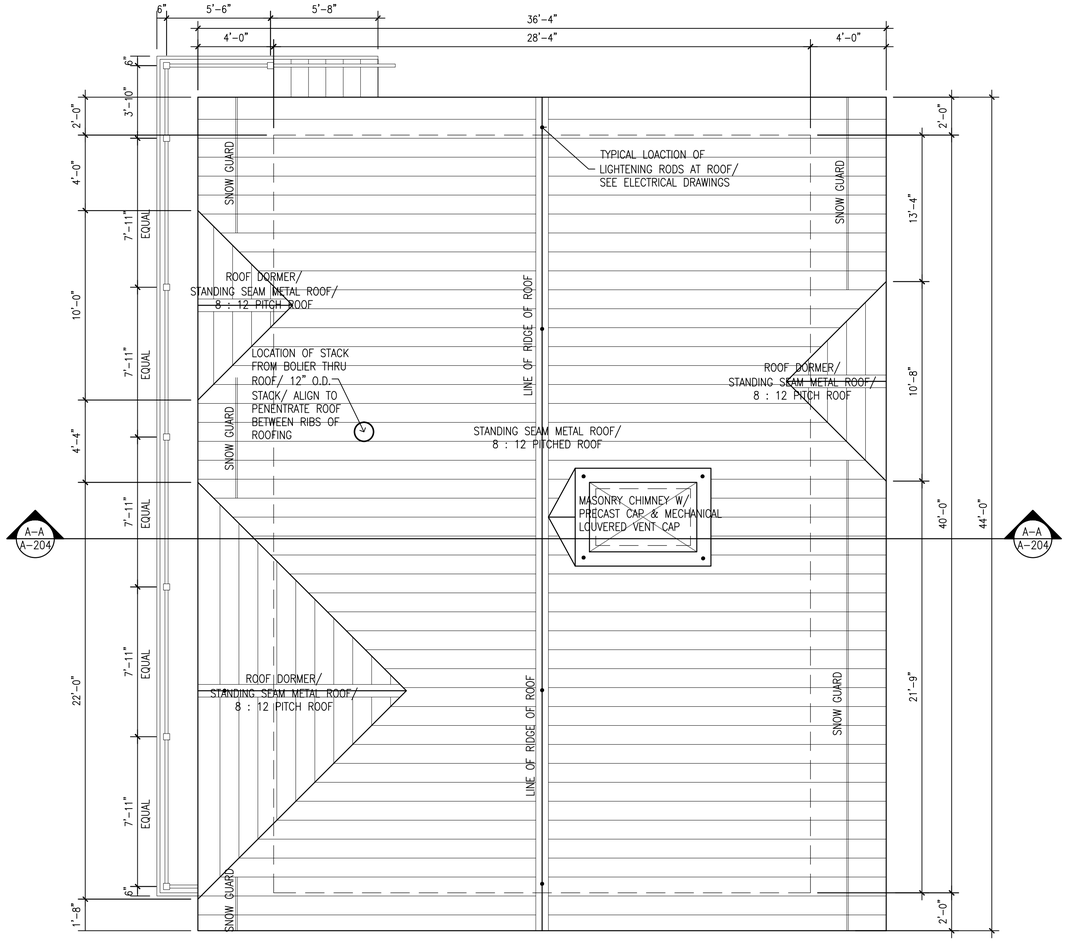
CLINTON STORAGE FACILITY
WALL SECTIONS

ARCHITECTURAL

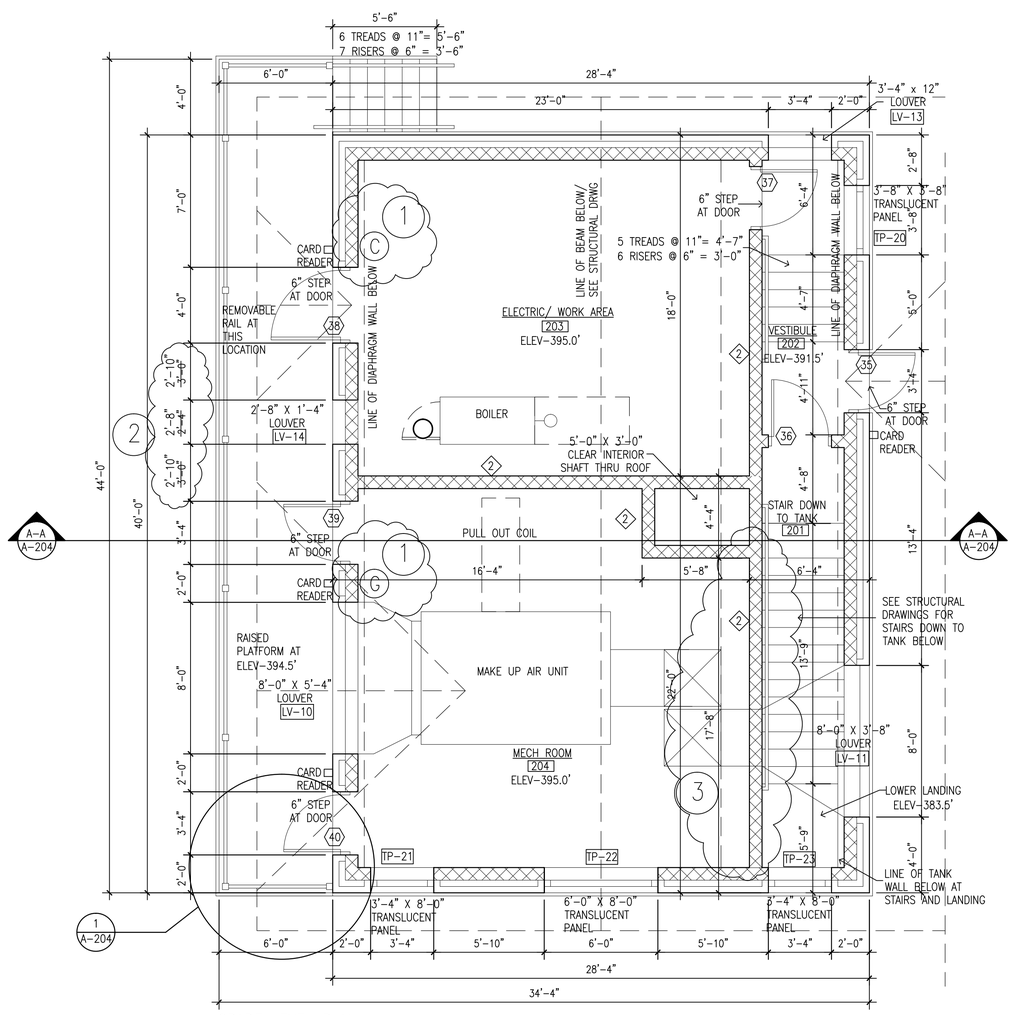
REGISTERED ARCHITECT SHEILA A. WEED No. 018471 STATE OF NEW YORK

File Number 00663
Date 04/11

A-111



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



GRADE LEVEL PLAN
SCALE : 1/4" = 1'-0"
PROVIDE GRAFFITI RESISTANT COATINGS AT ALL ELEVATIONS TO BRICK AND PRECAST MATERIALS. SEE SPECIFICATIONS FOR FURTHER MATERIALS AND APPLICATIONS

(1) ENGINEERS FIELD ORDER #58; FEBRUARY 12, 2014:
FIRE EXTINGUISHER LOCATIONS:
1.) MOUNT TOP OF BRACKET @ 4" AFF
2.) INSTALL WHERE INDICATED & AS NOTED w/ SIGNS TAPED ON WALLS IN THE BUILDINGS.
Ⓒ – C02 F.E. Ⓖ – GENERAL PURPOSE F.E.

(2) RFI #141; 11-26-2012:
LOUVER LV-14 DIMENSIONS SHOULD BE 2'-8"x1'-4"

(3) RFI #307; 11-19-2013:
AT THE REQUIRED DUCT PENETRATION BETWEEN ROOM 204 AND STAIRS 201, SAWCUT THE REQ'D MASONRY OPN'G AND INSTALL A MASONRY LINTEL. PROVIDE A 16" DEEP (2) COURSE LITEL FOR A 4'-0" MASONRY OPN'G AT THE EAST STRUCTURE IN ACCORDANCE WITH "MASONRY LINTEL SCHEDULE" ON DRAWING S-003. PROVIDE MIN 8" BEARING AT EACH END OF THE LINTEL. BOTTOM BARS SHOULD HAVE A STANDARD 90 DEGREE HOOK @ EACH END. DO NOT CUT TOP OF WALL BOND BEAM REINFORCING BARS.

RFI #318; 12-02-2013:
REFERENCE RFI #307; IT IS ACCEPTABLE TO PROVIDE A PRECAST CONCRETE LINTEL IN LIEU OF A MASONRY LINTEL. IF DISTANCE FROM TOP OF MASONRY WALL TO OPN'G IS 24" OR GREATER, AN 8"w X 16"h PRECAST LINTEL SHALL BE PROVIDED; IF OPN'G IS LESS THAN 24", AN 8"w X 8"h LINTEL SHALL BE PROVIDED.

PARTITION LEGEND

1 — TYPICAL CMU PARTITION– 12" CONC. BLOCK/ FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALLS START AT FINISHED FLOOR ELEVATION. CMU TO BE FULL HT FROM SLAB OR FLOOR ELEVATION TO UNDERSIDE OF STRUCTURE. SEAL BETWEEN WALL AND ROOF STRUCTURE. SEE PARAPET WALL TYPES FOR WHERE WALLS EXTEND BEYOND ROOF & BECOME PARAPETS

1A — TYPICAL CMU PARTITION– 12" CONC. BLOCK/ FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALLS START AT FINISHED FLOOR ELEVATION. CMU TO BE FULL HT FROM SLAB OR FLOOR ELEVATION TO UNDERSIDE OF STRUCTURE. SEAL BETWEEN WALL AND ROOF STRUCTURE. WALL AND ALL OPENINGS AND ALL PENETRATIONS TO HAVE A 1 HOUR RATING

2 — TYPICAL CMU PARTITION– 8" CONC. BLOCK FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE FULL HT FROM SLAB TO UNDERSIDE OF THE ROOF STRUCTURE.

2A — TYPICAL CMU PARTITION– 8" CONC. BLOCK FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE FULL HT FROM SLAB TO UNDERSIDE OF THE ROOF STRUCTURE. WALL AND ALL OPENINGS AND PENETRATIONS TO HAVE A 1 HOUR RATING

2B — TYPICAL CMU PARTITION– 8" CONC. BLOCK FINISH BLOCK AT EACH SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE 10'-0" HT FROM SLAB TO UNDERSIDE ROOF PLANK

3 — PLUMBING SHAFT WALL– INSTALL 4" CMU AT EACH SIDE OF 12" WIDE PLUMBING SHAFT WALL. FINISH AT EACH ROOM SIDE AS INDICATED ON THE ROOM FINISH SCHEDULE/ PARTITION TO BEGIN AT SLAB/ FLOOR AND EXTEND TO UNDERSIDE OF ROOF PLANK/ CEILING ABOVE

4 — TYPICAL CMU PARTITION– 10" CONC. BLOCK ON THE ROOM FINISH SCHEDULE. WALL STARTS AT SLAB/ FINISHED FLOOR ELEVATION CMU TO BE FULL HT FROM SLAB TO UNDERSIDE

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
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X:
7/3-/10 G1D SAW
DIR/DWG

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

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

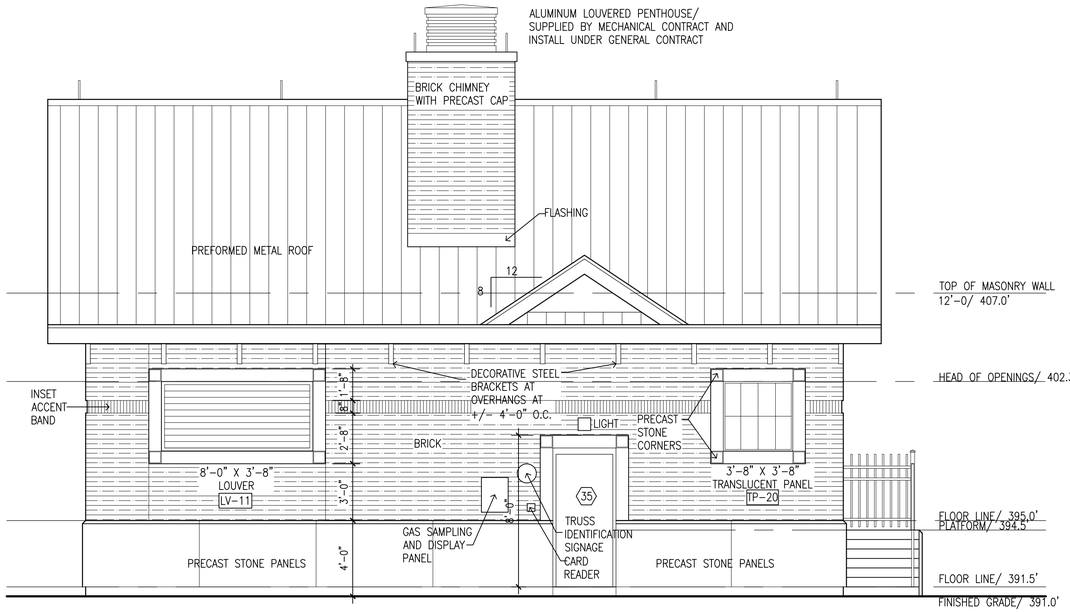
EAST ENTRANCE STRUCTURE
GRADE LEVEL PLAN AND ROOF PLAN

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED STATE OF NEW YORK 018471

File Number 00663
Date 04/11

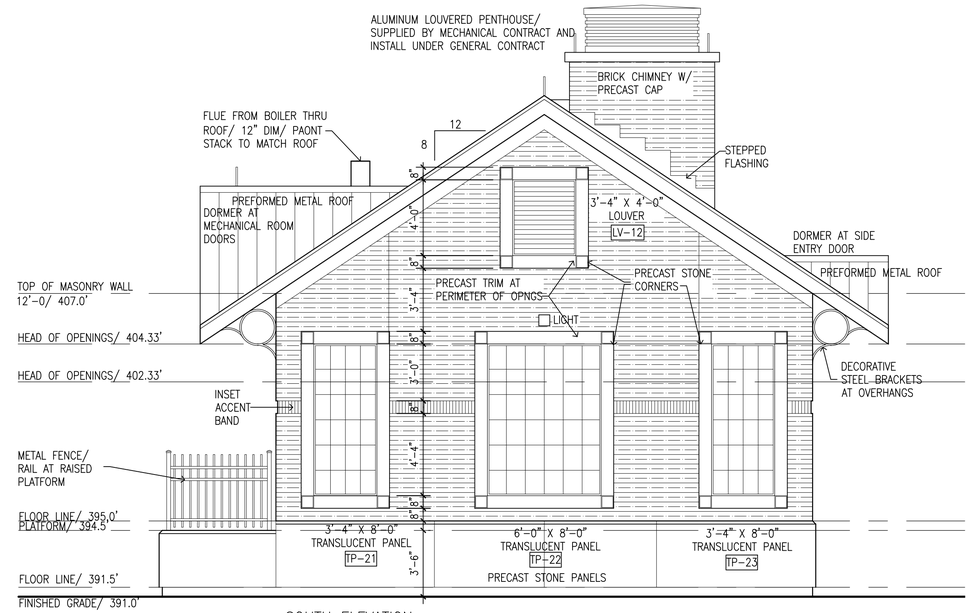
A-201



EAST ELEVATION

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

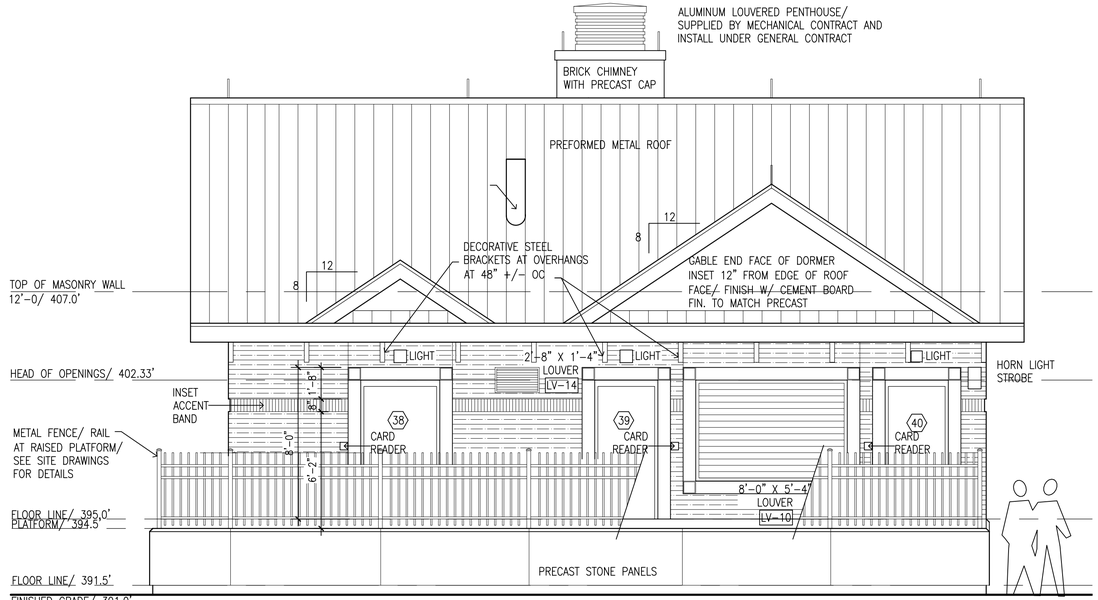
NOTE: ALL PRECAST CONCRETE PANELS AND TRIM AND ACCESSORIES, EXPOSED CONCRETE FACES, BRICK AND ACCENT BRICK TO BE TREATED WITH ANTI GRAFFITI RESISTANT COATING AS SPECIFIED



SOUTH ELEVATION

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

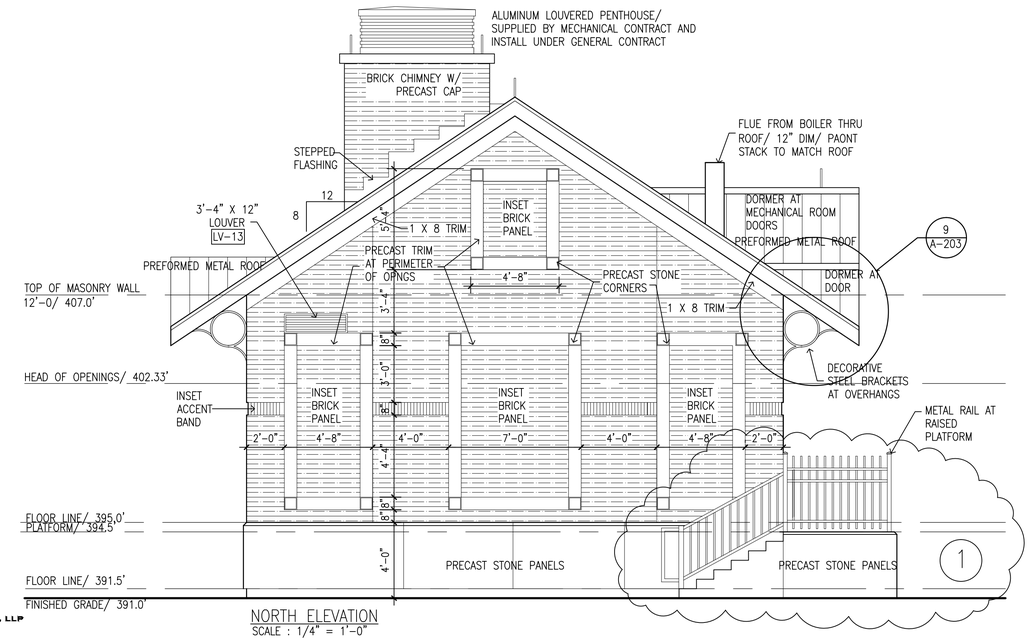
NOTE: ALL PRECAST CONCRETE PANELS AND TRIM AND ACCESSORIES, EXPOSED CONCRETE FACES, BRICK AND ACCENT BRICK TO BE TREATED WITH ANTI GRAFFITI RESISTANT COATING AS SPECIFIED



WEST ELEVATION

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

NOTE: ALL PRECAST CONCRETE PANELS AND TRIM AND ACCESSORIES, EXPOSED CONCRETE FACES, BRICK AND ACCENT BRICK TO BE TREATED WITH ANTI GRAFFITI RESISTANT COATING AS SPECIFIED



NORTH ELEVATION

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

NOTE: ALL PRECAST CONCRETE PANELS AND TRIM AND ACCESSORIES, EXPOSED CONCRETE FACES, BRICK AND ACCENT BRICK TO BE TREATED WITH ANTI GRAFFITI RESISTANT COATING AS SPECIFIED

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 03/15 PER: SAW

1 RFI #291; 10-07-2013: SEE SHEET A-202A FOR CONCRETE STAIR PANEL CLARIFICATIONS.

L: ON=*; OFF=*REF*
X:
7/3-/10 G1D SAW
DIR/DWG

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

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

EAST ENTRANCE STRUCTURE ELEVATIONS

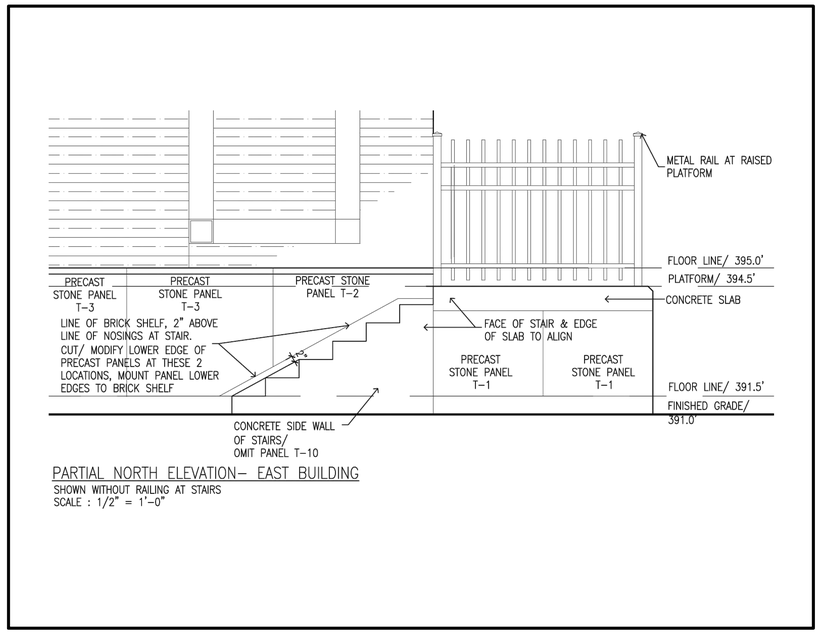
ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED 018471 STATE OF NEW YORK

File Number 00663

Date 04/11

A-202

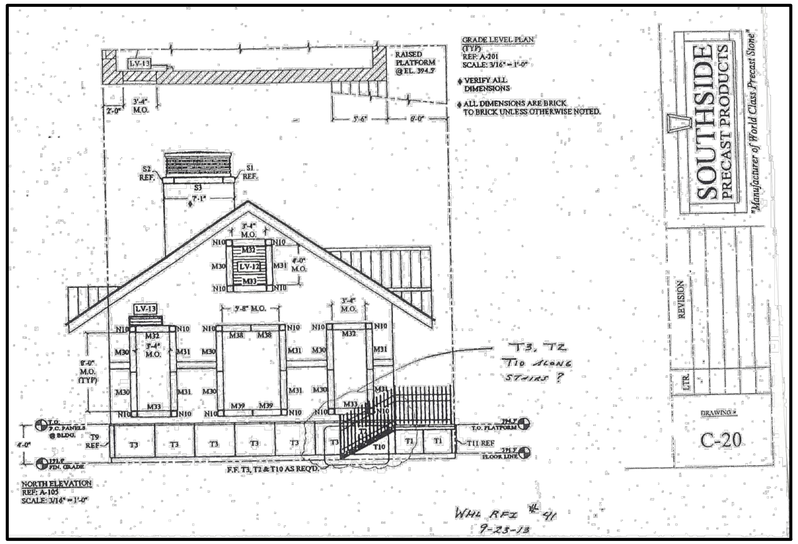


PARTIAL NORTH ELEVATION– EAST BUILDING

SHOWN WITHOUT RAILING AT STAIRS

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

RFI #291



WHL RFI # 41
9-23-13

RFI #291

L: ON=*; OFF=*REF*
X:
7/3-/10 G1D SAW
DIR/DWG

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

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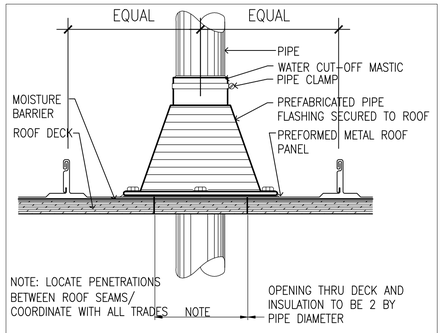
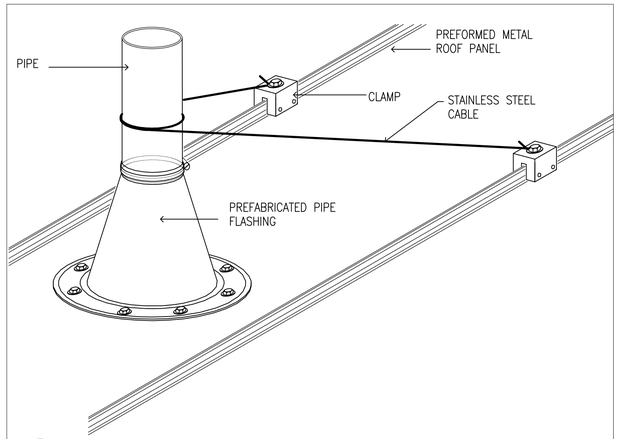
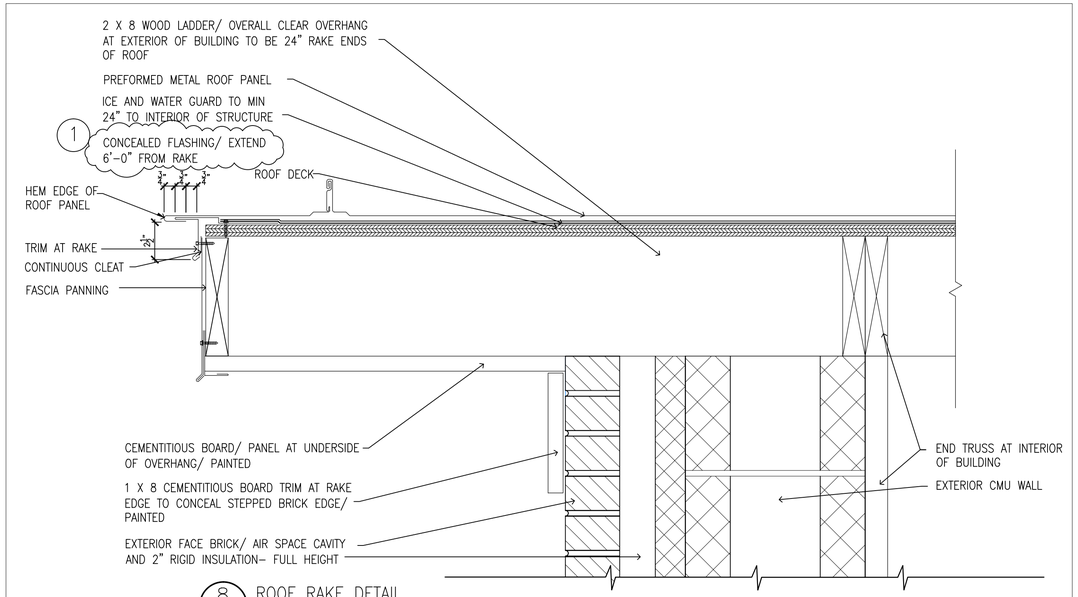


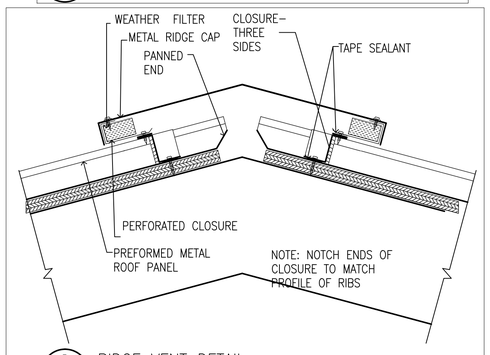
1 A203 PIPE FLASHING DETAIL
SCALE : 3" = 1'-0"



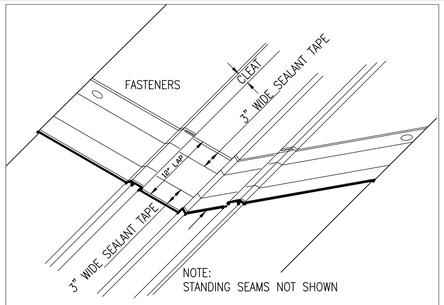
5 A203 PIPE SECUREMENT DETAILS
SCALE : 3" = 1'-0"



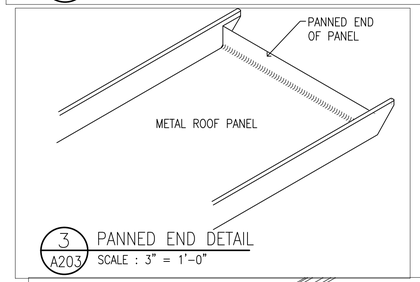
8 A203 ROOF RAKE DETAIL
SCALE : 3" = 1'-0"



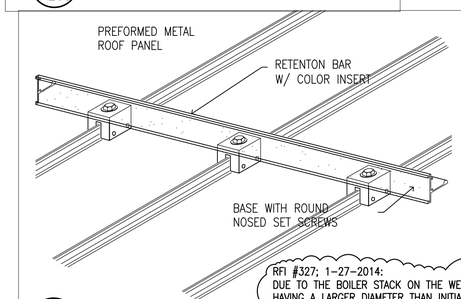
2 A203 RIDGE VENT DETAIL
SCALE : 3" = 1'-0"



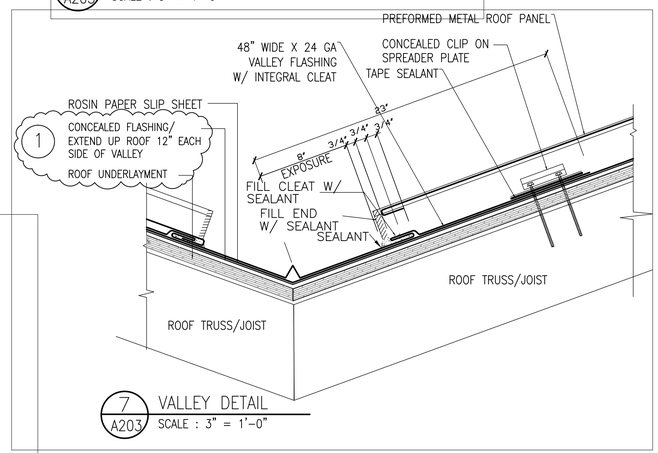
6 A203 VALLEY LAP FLASHING DETAIL
SCALE : 3" = 1'-0"



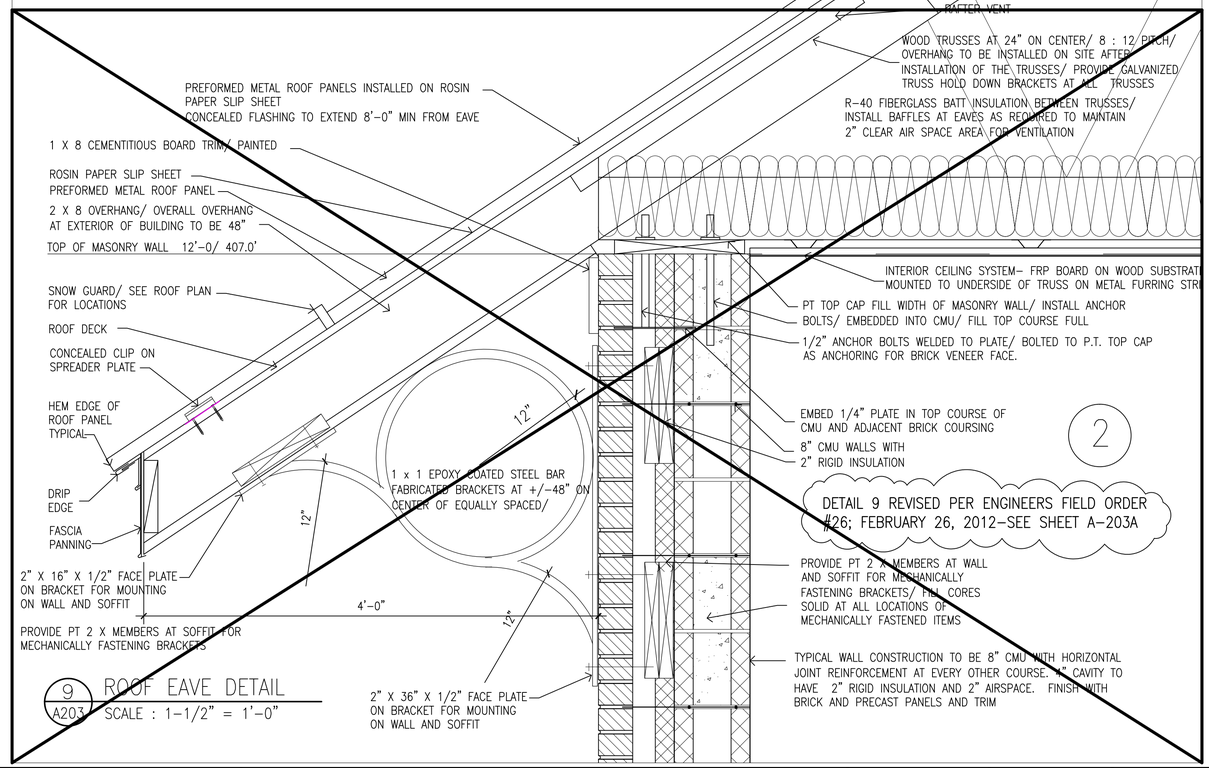
3 A203 PANNED END DETAIL
SCALE : 3" = 1'-0"



4 A203 SNOW GUARD DETAIL
SCALE : 3" = 1'-0"



7 A203 VALLEY DETAIL
SCALE : 3" = 1'-0"



9 A203 ROOF EAVE DETAIL
SCALE : 1-1/2" = 1'-0"

RFI #327; 1-27-2014:
DUE TO THE BOILER STACK ON THE WEST SIDE HAVING A LARGER DIAMETER THAN INITIALLY INDICATED, THE FLASHING COULD POSSIBLY BE DAMAGED FROM SLIDING SNOW & ICE. SUGGESTED INSTALL OF A SNOW SLIDE (DETAIL 4/A-203) OR AN ALTERNATE OF PIPE FLASHING

1 RFI #124; 10-28-2012; CONCEALED FLASHING: THE CONCEALED FLASHING INDICATED ON THE DETAILS ON DRAWING SHEET A-203 IS AN ICE & WATER SHEILD PRODUCT.

2 RFI #163; 2-15-2013: REFERENCE FIELD ORDER #25 FOR DETAILS.

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X:
7/3-/10 G1D SAW
DIR/DWG

3"=1'-0" 0 3" 6" 9" 1'
1 1/2"=1'-0" 1' 6" 0 1'

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CLINTON CSO STORAGE FACILITY PROJECT

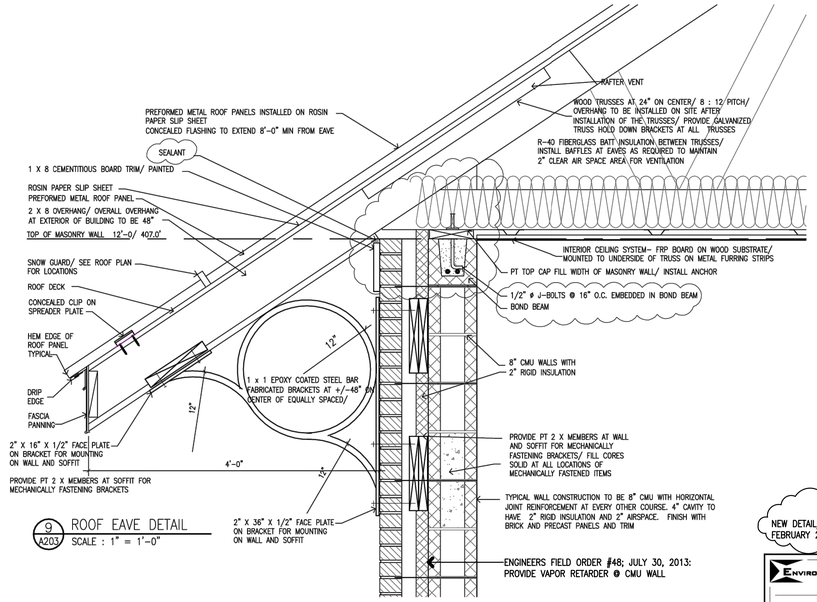
EAST ENTRANCE STRUCTURE ELEVATION DETAILS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED NO. 018417 STATE OF NEW YORK

File Number 00663
Date 04/11

A-203



9 / A203 ROOF EAVE DETAIL
SCALE : 1" = 1'-0"

NEW DETAIL/DRAWING PER ENGINEERS FIELD ORDER #26; FEBRUARY 26, 2013

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY
DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

FIELD ORDER NO. 26
A-203**A**

FIGURE **1**

(OPTIONAL)_LAYER
(Optional) Xref: MID2XXXX
02/13/03 BBL RLP
Directory/File

L: ON=*; OFF=*REF*
X:
7/3--/10 G1D SAW
DIR/DWG

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3"=1'-0" (0, 3", 6", 9", 1')
1 1/2"=1'-0" (1', 6", 0, 1')

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1	3/15	RECORD DRAWINGS	

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 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 WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

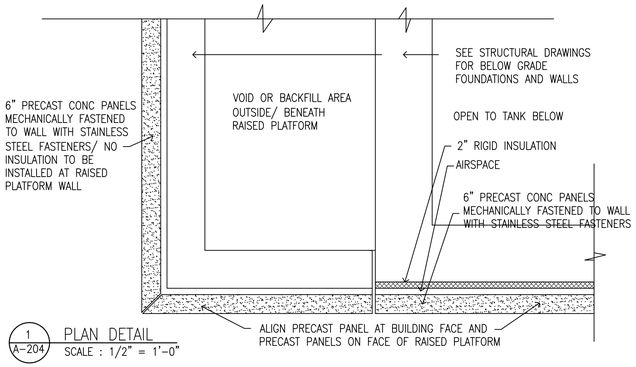
EAST ENTRANCE STRUCTURE ELEVATION DETAILS

ARCHITECTURAL

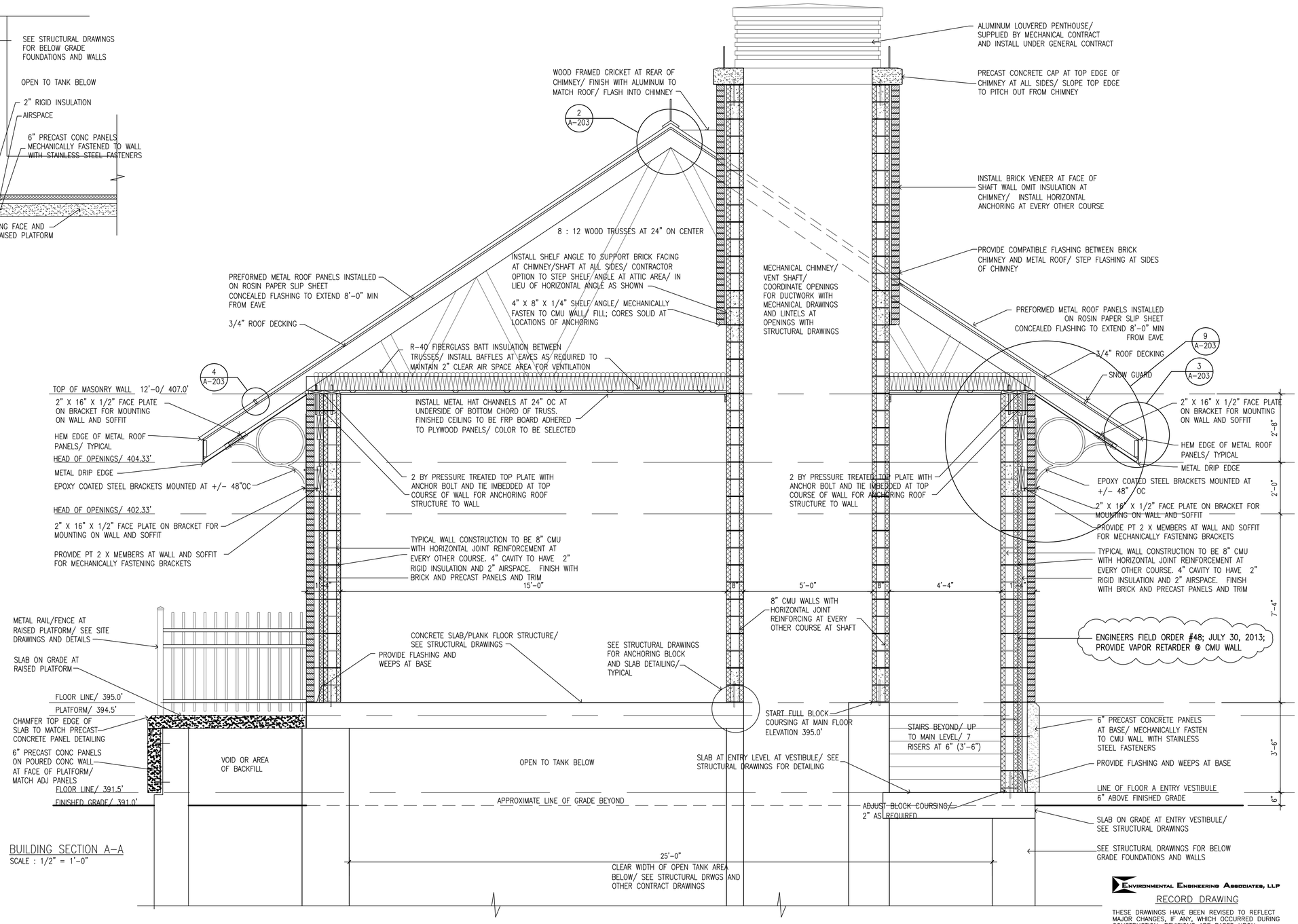
REGISTERED ARCHITECT SHEILA A. WEED NO. 018471 STATE OF NEW YORK

File Number 00663
Date 04/11

A-203A



1 / A–204 PLAN DETAIL
SCALE : 1/2" = 1'–0"



BUILDING SECTION A–A
SCALE : 1/2" = 1'–0"

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
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: 03/15 PER: SAW

L: ON=*; OFF=*REF*
X:
7/3–/10 G1D SAW
DIR/DWG

1/4"=1'–0" (4' 0 4' 8')

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.

No.	Date	Revisions	Init
3	03/15	RECORD DRAWINGS	
2	04/11	AS BID	
1	01/11	ISSUED FOR APPROVAL	

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 WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

EAST ENTRANCE STRUCTURE SECTIONS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED 018471 STATE OF NEW YORK

File Number 00663
Date 04/11

A–204

DOOR SCHEDULE

DOOR #	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR FIN	FRAME MAT	FRAME FIN	FRAME THICK	FRAME TYPE	HRD WR	LABEL	LINTEL MARK	NOTES
WEST STRUCTURE													
01	B	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	4			CR
02	B	2 @ 3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1A	6			CR
03	C	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
04	C	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
05	C	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
06	B	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	4			CR
07	B	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	4			CR
08	C	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	5	45 MIN		
09	A	12'-0"	14'-0"	2"	CLEAR ANO	---	---	---	---	---	45 MIN		MOTOR
10	A	12'-0"	14'-0"	2"	CLEAR ANO	---	---	---	---	---			*MOTOR
11	C	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
12	C	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
13	C	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
14	A	11'-8"	14'-0"	2"	CLEAR ANO	---	---	---	---	---			MOTOR AND CR
15	B	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	4			CR
16	B	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	4			CR
17	A	11'-8"	14'-0"	2"	CLEAR ANO	---	---	---	---	---			MOTOR AND CR
18	B	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED		1	4			CR
19	C	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
20	C	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	2			
21	C	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
22	D	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	3			
23	C	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	5	45 MIN		
24	C	3'-0"	**7'-0"**	**1-3/4"**	PREFINISHED	FRP	PREFINISHED	6"	**1**	1			
25	C	3'-0"	**7'-0"**	**1-3/4"**	PREFINISHED	FRP	PREFINISHED	6"	1	5	45 MIN		
26	C	3'-0"	**7'-0"**	**1-3/4"**	PREFINISHED	FRP	PREFINISHED	6"	1	5	45 MIN		
27	B	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	2	4			CR
28	B	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	2	4			CR
29	A	11'-8"	10'-0"	2"	CLEAR ANO	---	---	---	---	---			MOTOR AND CR
30	A	8'-8"	10'-0"	2"	CLEAR ANO	---	---	---	---	---			*MOTOR AND CR
31	C	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	5			
32	B	3'-0"	**7'-0"**	**1-3/4"**	PREFINISHED	FRP	PREFINISHED	6"	1	4			ROOF ACCESS
EAST STRUCTURE													
35	B-1	3'-0"	**7'-0"**	**1-3/4"**	PREFINISHED	FRP	PREFINISHED	6"	1	4			CR
36	C	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
37	C	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	1			
38	B-1	3'-8"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	4			CR
39	B-1	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	4			LOUVER AND CR
40	B-1	3'-0"	7'-0"	1-3/4"	PREFINISHED	FRP	PREFINISHED	6"	1	4			CR

GENERAL NOTES AND INFORMATION:

1) TRANSLUCENT PANEL UPPER TRANSOM INSERTED IN TRANSOM OF FRAME TYPE 2/ SEE TRANSLUCENT PANEL SCHEDULE, THIS SHEET

2.) SEE LINTEL SCHEDULE ON STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL INFORMATION.

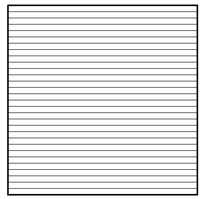
3.) DOORS INDICATED WITH CR (CARD READER) ARE EQUIPPED WITH A CARD READER FOR ACCESS, SEE PLANS AND ELEVATIONS FOR MOUNTING LOCATIONS/ SEE INSTRUMENTATION DRWGS FOR DEVICES (3)

4.) FRP DOOR AND FRAME COLORS TOP BE SELECTED BY ARCHITECT/ CUSTOM COLOR FROM MANUFACTURERS STANDARD COLOR REQUIRED

(2)

*RFP-16

DOOR TYPES

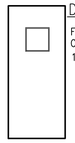


DOOR TYPE-"A"

OVERHEAD COILING DOOR
INSULATED STAIN. STEEL SLATS

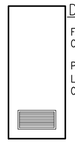
POWER OPERATOR/ MOTOR DRIVEN AS NOTED
SEE SECTIONS FOR JAMB
AND HEAD CONDITIONS
OVERHEAD COILING DOOR

ADD VISION WINDOWS
AT OPERATOR SIDE



DOOR TYPE-"B"

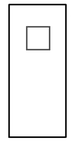
F.R.P. INSULATED DOOR
COLOR AS SELECTED
18" X 18" VISION PANEL



DOOR TYPE-"B-1"

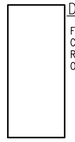
F.R.P. INSULATED DOOR
COLOR AS SCHEDULED

PROVIDE 24" X 12"
LOUVER AS INDICATED
ON SCHEDULE



DOOR TYPE-"C"

F.R.P. FLUSH FACE
COLOR AS SELECTED
18" X 18" VISION PANEL

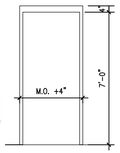


DOOR TYPE-"D"

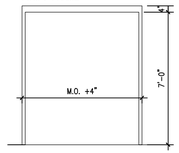
F.R.P. FLUSH FACE
COLOR AS SCHEDULED
RATING AS INDICATED
ON SCHEDULE

FRAME TYPES

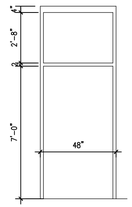
FRAME TYPE-"1"
F.R.P. FRAME



FRAME TYPE-"1A"
F.R.P. FRAME



FRAME TYPE-"2"
F.R.P. FRAME



ROOM FINISH SCHEDULE

RM #	ROOM NAME	FLOOR MATERIAL	FLOOR FINISH	FLOOR ELEV.	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	CEILING MATERIAL	CEILING FINISH	CEILING HGT/ELEV	NOTES
WEST STRUCTURE												
101	MECHANICAL ROOM #1	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	18'-0"/ 412.0'	
102	VESTIBULE	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	10'-0"/ 404.0'	
103	MECHANICAL ROOM #2	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	18'-0"/ 412.0'	
104	STORAGE	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	18'-0"/ 412.0'	
105	ODOR CONTROL ROOM	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	30'-0"/ 424.0'	
106	ACCESS HATCH	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	12'-0"/ 406.0'	
107	VESTIBULE	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	10'-0"/ 404.0'	
108	TRUCK LOADING	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	18'-0"/ 412.0'	
109	GRIT ROOM	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	19'-4"/ 413.3'	
110	CONTROL ROOM	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	14'-0"/ 408.0'	
111	VESTIBULE	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	14'-0"/ 408.0'	
112	JANITOR'S CLOSET	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	14'-0"/ 408.0'	
113	HALL	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	14'-0"/ 408.0'	
114	BATH	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	14'-0"/ 408.0'	
115	VESTIBULE	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	14'-0"/ 408.0'	
116	STAIR TO ROOF	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	VARIES	
117	ELECTRIC ROOM	CONC.	SEALED	394.0'	PT-1	PT-1	PT-1	PT-1	CONC	PT-2	14'-0"/ 408.0'	
EAST STRUCTURE												
201	STAIRWAY	CONC/ STL	SEALED	391.5'	PT-1	PT-1	PT-1	PT-1	WD/FRP	---	15'-6"/ 407.0'	
202	ENTRY VESTIBULE	CONC.	SEALED	391.5'	PT-1	PT-1	PT-1	PT-1	WD/FRP	---	15'-6"/ 407.0'	
203	ELECTRIC ROOM	CONC.	SEALED	395.0'	PT-1	PT-1	PT-1	PT-1	WD/FRP	---	12'-0"/ 407.0'	
204	MECHANICAL ROOM	CONC.	SEALED	395.0'	PT-1	PT-1	PT-1	PT-1	WD/FRP	---	12'-0"/ 407.0'	

ROOM FINISHES-

FLOORING- ALL CONCRETE FLOORING TO BE SEALED/ SEE SPECIFICATIONS

WALLS- ALL WALLS TO BE PAINTED EACH SIDE/ SEE SPEC FOR PRODUCTS
PT-1/ STANDARD WALL COLOR TO BE SELECTED

CEILINGS- ALL CEILING TO BE PAINTED/ FINISHED/ SEE SPECS FOR PRODUCTS
PT-2/ STANDARD CEILING COLOR TO BE SELECTED

PLASTIC LAMINATE- SIMILAR OR EQL TO WILSONART LAMINATES
LAMINATE COLOR TO BE SELECTED FROM MANU STANDARD RANGE OF COLORS

MISCELLANEOUS NOTES

1.) PROVIDE 5 OF EACH TYPE OF FIRE EXTINGUISHER INDICATED IN THE SPECIFICATIONS. COORDINATE LOCATION OF MOUNTING WITH ONONDAGA COUNTY CODE ENFORCEMENT

2.) SEE STRUCTURAL DRWGS AND SPECIFICATION SECTION 03350 FOR CONCRETE FINISHING AND SEALANTS REQ'D FOR EACH LOCATION

LOUVER OPENING SCHEDULE

LOUVER OPNG #	OPENING WIDTH	OPENING HEIGHT	OPENING HEAD ELEV	FRAME MAT	FRAME FIN	LINTEL	NOTES
WEST STRUCTURE							
LV-1	16-0" MO	12'-0" MO	408.0'	ALUM.	PREFINISHED		
LV-2	6'-0" MO	12'-0" MO	408.0'	ALUM.	PREFINISHED		
LV-3	8'-0" MO	4'-0" MO	405.66'	ALUM.	PREFINISHED		
LV-4	8'-0" MO	4'-0" MO	405.66'	ALUM.	PREFINISHED		
LV-5	8'-0" MO	4'-0" MO	405.66'	ALUM.	PREFINISHED		
LV-6	8'-0" MO	6'-0" MO	422.0'	ALUM.	PREFINISHED		
PTHP-1	3'-4" MO	1'-4" MO	396.44'	ALUM.	PREFINISHED		CONTROL ROOM
EAST STRUCTURE							
LV-10	8'-0" MO	5'-4" MO	402.33'	ALUM.	PREFINISHED		
LV-11	8'-0" MO	3'-8" MO	402.33'	ALUM.	PREFINISHED		
LV-12	3'-4" MO	4'-0" MO	413.0'	ALUM.	PREFINISHED		
LV-13	3'-4" MO	1'-0" MO	406.0'	ALUM.	PREFINISHED		
LV-14	1'-4" MO	2'-8" MO	403.0'	ALUM.	PREFINISHED		

GENERAL INFORMATION
1- COORDINATE SIZES AND LOCATIONS WITH "H" DRAWINGS PRIOR TO WALL/MASONRY LAYOUTS.
2- SEE "H" DRAWINGS FOR LOUVER FUNCTIONS AND DEPTHS
3- COLORS TO BE SELECTED BY ARCHITECT FROM MANU. FULL RANGE OF COLORS

L: ON=*; OFF=*REF*
X:
7/3-/10 G1D SAW
DIR/DWG

INTERIOR SIGNAGE SCHEDULE

DOOR #	MOUNTED ON ROOM SIDE	SIGN TYPE	TEXT	SYMBOL
04	105 ODOR CONTROL	A	MECHANICAL ROOM	
05	105 ODOR CONTROL	A	MECHANICAL ROOM	
08	108 TRUCK LOADING	A	STORAGE	
11	105 ODOR CONTROL	A	VESTIBULE	
11	107 VESTIBULE	A	ODOR CONTROL	
12	108 TRUCK LOADING	A	VESTIBULE	
12	107 VESTIBULE	A	TRUCK LOADING	
13	107 VESTIBULE	A	GRIT ROOM	
13	109 GRIT ROOM	A	VESTIBULE	
20	113 HALL	A	CONTROL ROOM	
21	113 HALL	A	JANITOR'S CLOSET	
22	113 HALL	B	BATH	MAN/WOMAN
23	113 HALL	A	ELECTRIC ROOM	
24	113 HALL	A	VESTIBULE	
25	115 VESTIBULE	A	GRIT ROOM	
25	109 GRIT ROOM	A	HALL	
27	116 VESTIBULE	B	STAIR TO ROOF	STAIR
31	117 ELECTRIC	A	ODOR CONTROL ROOM	
31	105 ODOR CONTROL	A	ELECTRIC ROOM	

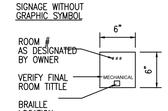
INTERIOR BUILDING SIGNAGE

PROVIDE WALL MOUNTED SIGNAGE FOR ALL DOOR LOCATIONS INDICATED ON THE SIGNAGE SCHEDULE

ALL SIGNS TO BE CONCEALEED MOUNTING
FRAMELESS STYLE
ADA COMPLIANT/ BRAILLE AS REQ'D
RAISED COPY AND GRAPHICS
COLORS TO BE SELECTED

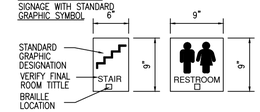
SIGN TYPE A

SIGNAGE WITHOUT GRAPHIC SYMBOL



SIGN TYPE B

SIGNAGE WITH STANDARD GRAPHIC SYMBOL



TRANSLUCENT PANEL SCHEDULE

PANEL #	WIDTH	HEIGHT	THICK	FIN	FRAME HEAD	FRAME JAMB	FRAME SILL	MULLION PATTERN	LINTEL MARK	NOTES
WEST STRUCTURE										
TP-1	8'-0"	12'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	8W X 6H		
TP-2	8'-0"	12'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	8W X 6H		
TP-3	8'-0"	12'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	8W X 6H		
TP-4	8'-0"	12'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	8W X 6H		
TP-5	4'-8"	3'-4"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	5W X 3H		
TP-6	4'-0"	2'-8"	1-3/4"	CLR ANO	HM FRAME	HM FRAME	HM FRAME	4W X 3H	---	
TP-7	4'-0"	2'-8"	1-3/4"	CLR ANO	HM FRAME	HM FRAME	HM FRAME	4W X 3H	---	
TP-8	12'-0"	16'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	12W X 8H		
TP-9	12'-0"	16'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	12W X 8H		
TP-10	6'-8"	4'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	6W X 3H		
TP-11	6'-8"	4'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	6W X 3H		
TP-12	6'-8"	4'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	6W X 3H		
TP-13	6'-8"	4'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	6W X 3H		
EAST STRUCTURE										
TP-20	3'-8"	3'-8"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	4W X 2H		
TP-21	3'-4"	8'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	4W X 6H		
TP-22	6'-0"	8'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	6W X 6H		
TP-23	3'-4"	8'-0"	1-3/4"	CLR ANO	PRECAST	PRECAST	PRECAST	4W X 6H		

(1) RFI #185; 3-27-2013; OVERHEAD COILING DOORS:
THE DOOR SCHEDULE INDICATING OHCD # AS 8'-8" WIDE IS INCORRECT AND SHOULD READ AS 7'-8" IN WIDTH.

(2) RFI #323; 1-15-2014; EAST BLDG DOOR #'s 38,39,&40:
LOUVERS ARE NOT REQ'D FOR DOORS 38, 39, & 40.

(3) RFI #259; 8-09-2013; DOOR 2 LOCKSET:
ONLY ONE (1) OF THE LEAFS SHOULD OPEN BY USING A CARD READER.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 03/15 PER: SAW

1/8"=1'-0" (8' 0 8' 16')

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2	04/11	AS BID	
1	01/11	ISSUED FOR APPROVAL	

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 WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

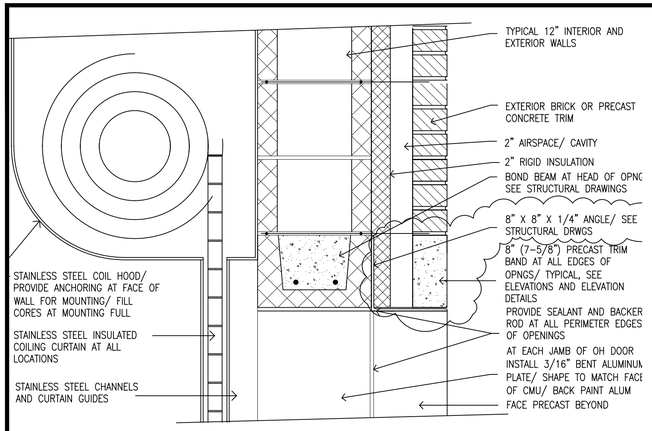
DOOR AND ROOM FINISH SCHEDULES

ARCHITECTURAL

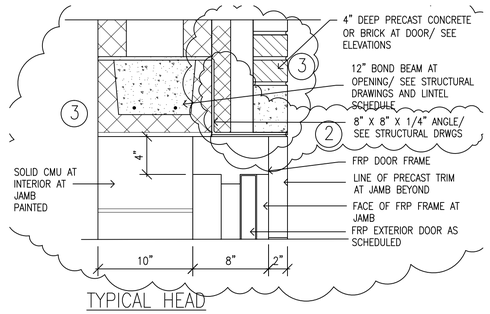
REGISTERED ARCHITECT SHEILA A. WEED No. 018411 STATE OF NEW YORK

File Number 00663
Date 04/11

A-301



TYPICAL HEAD



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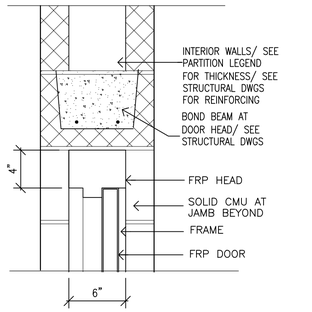

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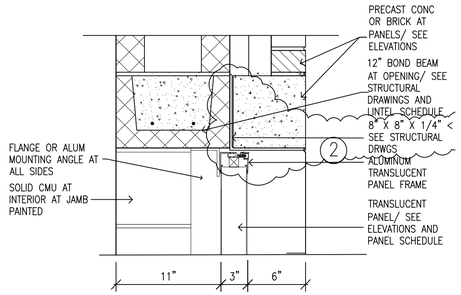

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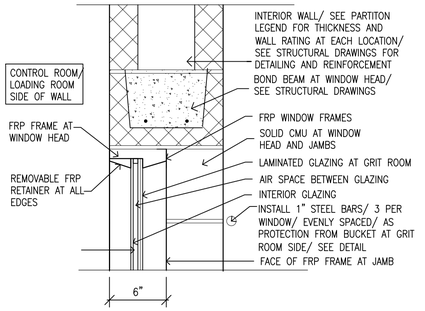
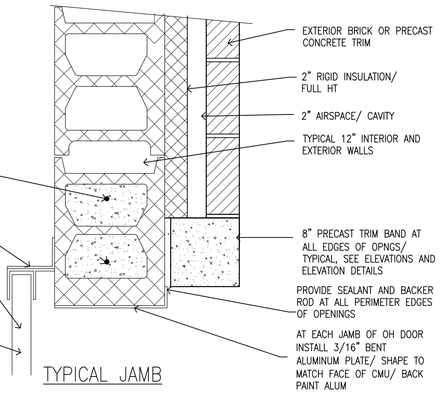
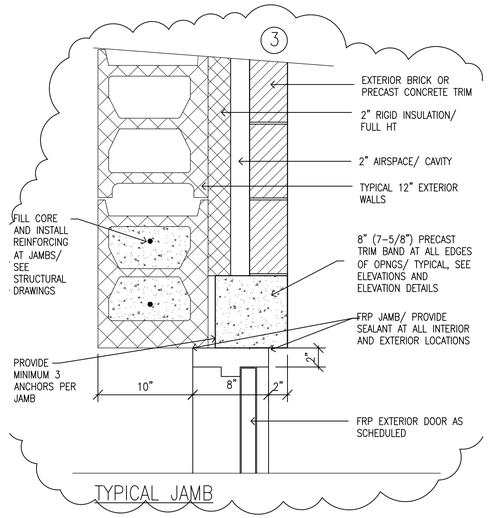


TYPICAL HEAD



TYPICAL JAMB



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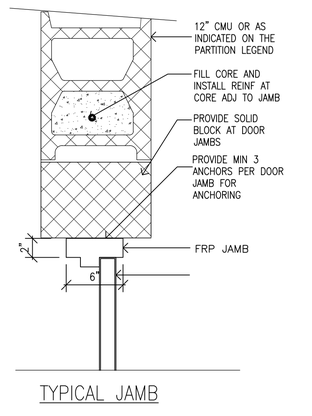

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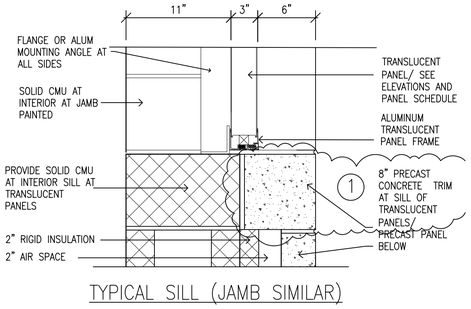
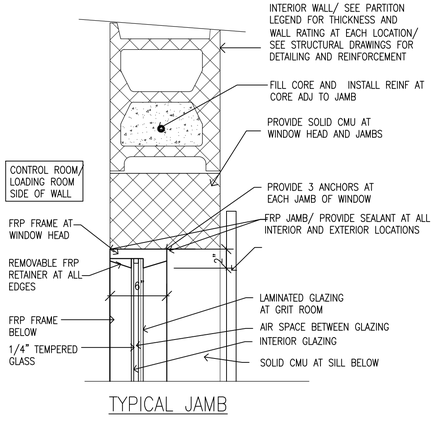


TYPICAL SILL (JAMB SIMILAR)



TYPICAL JAMB

1 A302 OVERHEAD DOOR DETAILS

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

2 A302 EXTERIOR DOOR DETAILS

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

EXTERIOR WINDOWS SIMILAR TO ABOVE DETAILS AND INTERIOR WINDOW DETAILS

3 A302 INTERIOR DR DETAILS

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

4 A302 TRANSLUCENT PANEL DETAILS

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

5 A302 INTERIOR WINDOW DETAILS

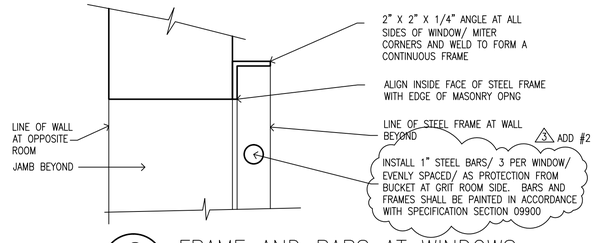
SCALE : 1-1/2" = 1'-0"

(1) ENGINEERS FIELD ORDER #43; JULY 17, 2013:
ALL TRANSLUCENT PANEL PRECAST SILLS SHALL BE SUPPORTED WITH AN L 4"x4"x¼" ANGLE (MIN). BOLT VERTICAL LEG DOWN AND TO MASONRY BOND BEAM WITH ⅝" DIA S.S. ADHESIVE ANCHORS @ 16" OC. SUPPORTS TO BE GALVANIZED OR S.S.

RFI #251; 7-30-2013:
REFERENCE FIELD ORDER #43.

(2) RFI #116; 1-11-2013:
8" x 8" x ½"

(3) RFI #190; 3-27-2013; OUTSIDE DOOR CONTACTS (SEE SHEET A-302A):
1.) IN GENERAL, THE SUGGESTED APPROACH APPEARS ACCEPTABLE.
2.) A SUBMITTAL SHALL BE MADE FOR THE SUPERFLEX CONDUIT & ASSOCIATED CONNECTORS.
3.) THE CONDUIT SHALL BE UL LISTED AS AN ELECTRICAL RACEWAY.
4.) SHALL BE EITHER METALLIC OR PVC COATED METAL.
5.) THE MATERIAL SHALL BE SUITABLE FOR THE AREA OF INSTALLATION



6 A302 FRAME AND BARS AT WINDOWS

SCALE : 3" = 1'-0"

SEE SECTION/ ELEVATION A-A ON SHEET A-110

WINDOW SCHEDULE

WINDOW #	FRAME TYPE	FRAME MO WIDTH	FRAME MO HEIGHT	FRAME THICK	FRAME MAT	FRAME FIN	FRAME LABEL	GLASS TYPE	NOTES
WEST STRUCTURE									
01	A	3'-4"	4'-8"	6"	FRP	PREFIN	---	#2	
02	A	3'-4"	4'-8"	6"	FRP	PREFIN	---	#2	
03	A	4'-0"	4'-0"	6"	FRP	PREFIN	45 MIN	#1	PROVIDE BARS AT GRIT RM
04	A	4'-0"	4'-0"	6"	FRP	PREFIN	45 MIN	#1	PROVIDE BARS AT GRIT RM
05	A	4'-0"	4'-0"	6"	FRP	PREFIN	---	#1	PROVIDE BARS AT GRIT RM
06	A	4'-0"	4'-0"	6"	FRP	PREFIN	---	#1	PROVIDE BARS AT GRIT RM
07	A	4'-0"	4'-0"	6"	FRP	PREFIN	---	#1	PROVIDE BARS AT GRIT RM
08	A	4'-0"	4'-0"	6"	FRP	PREFIN	---	#1	PROVIDE BARS AT GRIT RM
09	A	4'-0"	4'-0"	6"	FRP	PREFIN	---	#1	PROVIDE BARS AT GRIT RM

FRAME TYPE-"1"
F.R.P. FRAME

GLAZING INFORMATION-
GLASS TYPE #1
GLAZING TO BE DOUBLE GLAZED/ TEMPERED GLASS AT ONE SIDE AND OTHER SIDE TO BE LAMINATED GLASS, SEE DETAILS AND SPECIFICATION

GLASS #2
SIMILAR TO ABOVE/ EXCEPT INSULATED/ PROVIDE ARGON GAS AND LOW E COATING

L: ON=*; OFF=*REF*
X:
7/3-/10 G1D SAW
DIR/DWG

1 1/2"=1'-0" 1' 6" 0 1'

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1	01/11	ISSUED FOR APPROVAL	

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 ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
RECORD DRAWING
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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

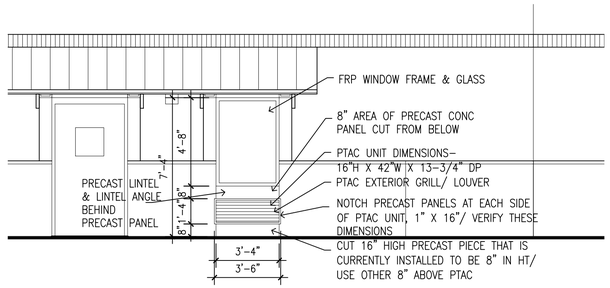
DOOR, LOUVER AND PANEL DETAILS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED 018417 STATE OF NEW YORK

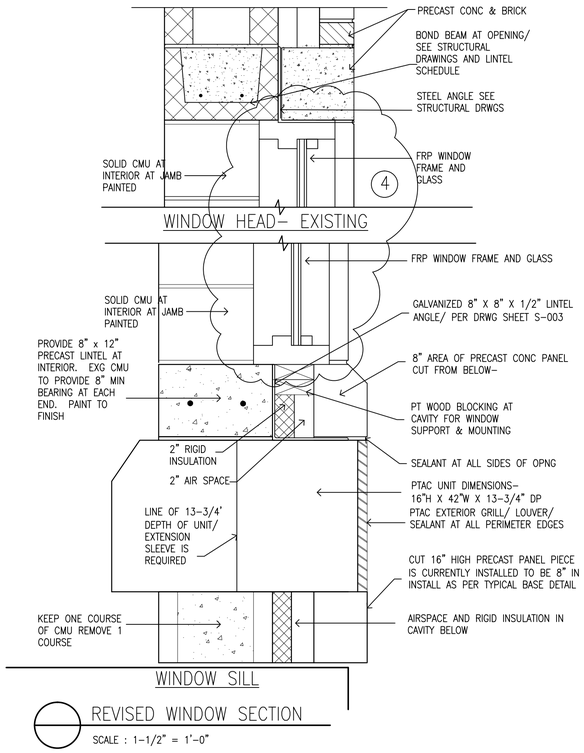
File Number 00663
Date 04/11

A-302



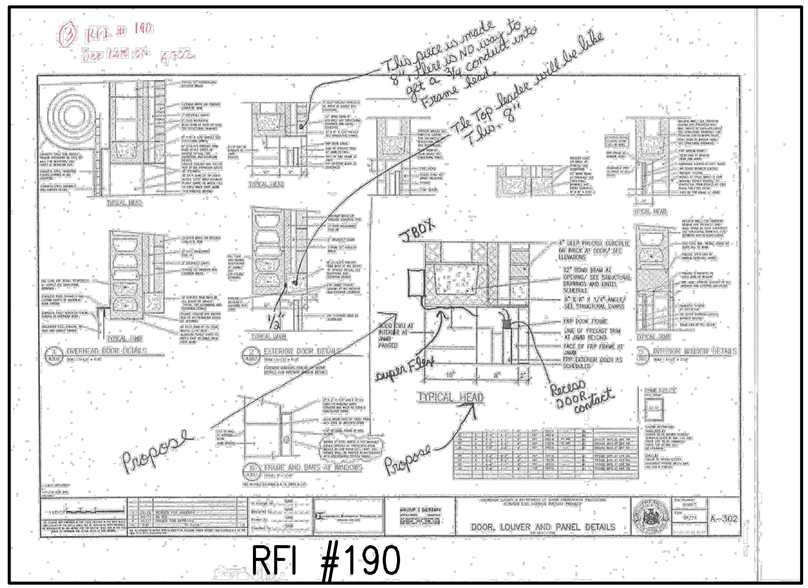
PARTIAL SOUTH ELEVATION

SCALE : 1/4" = 1'–0'

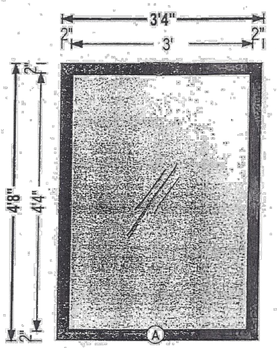


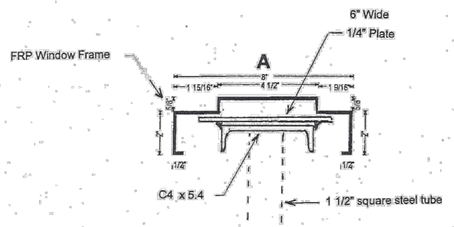
REVISED WINDOW SECTION

SCALE : 1–1/2" = 1'–0"



RFI #190





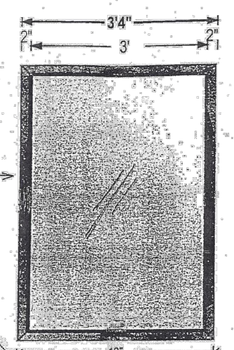
Proposed Support of Control Room Window Above PTAC Unit

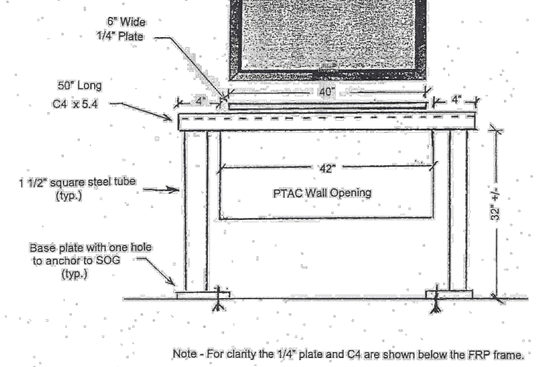
N.T.S. E. Webster 1/16/14

Note -C4 and plate to be cold galvanized

Dwg. 1 of 2

RFI #328





Note - For clarity the 1/4" plate and C4 are shown below the FRP frame.

Proposed Support of Control Room Window Above PTAC Unit

N.T.S. E. Webster 1/16/14

Note - C4, plate and square steel tube are to be cold galvanized

Dwg. 2 of 2

RFI #328

(4) RFI #328; 1–29–2014:
REFERENCE EFO #57, FRP WINDOW SUPPORT (SEE SHEET A–302A):
¼" x 8" SILL PLATE WITH C4x5.4 CHANNEL MOUNTED TO 1½" STEEL TUBES WHICH ANCHOR TO THE SLAB w/ S.S. HARDWARE.

RFI #322; 1–29–2014:
REFERENCE EFO #57 WEST CHAMBER CONTROL ROOM WINDOW INSTALL MODIFICATION:
– CONTRACTOR TO CREATE DRAINAGE SHAPE AT PRECAST SILL APPROX ¼".
– INSTALL BACKER ROD & SEALANT @ EACH SIDE OF PRECAST JOINT ON THE INTERIOR SIDE OF THE PTAC.

ENGINEERS FIELD ORDER #57; DECEMBER 24, 2013:
REVISED WINDOW DETAIL FOR THE WEST CHAMBER CONTROL ROOM.
REFERENCE RFI #320; 12–30–2013:
EFO #57 FOR BOTTOM OF WINDOW FRAMES DETAIL.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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L: ON=*; OFF=*REF*
X:
7/3–/10 G1D SAW
DIR/DWG

1 1/2"=1'–0" 1" 6" 0 1"

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DOOR, LOUVER AND PANEL DETAILS

ARCHITECTURAL

REGISTERED ARCHITECT SHEILA A. WEED 018471 STATE OF NEW YORK

File Number 00663

Date 04/11

A–302A

GENERAL STRUCTURAL NOTES:

1. REFER TO AND COORDINATE WITH SEQUENCE OF CONSTRUCTION LISTED ON SHEET WGS–002.
2. STRUCTURAL DRAWINGS SHALL BE COORDINATED AND USED IN CONJUNCTION WITH OTHER DRAWINGS, INCLUDING ARCHITECTURAL, CIVIL (SITE), MECHANICAL, HVAC, PLUMBING, AND ELECTRICAL DRAWINGS. ANY APPARENT DISCREPANCIES SHALL BE BROUGHT TO ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO PROCEEDING ON SUCH WORK.
3. NO CHANGES OF THE STRUCTURAL SYSTEM AS INDICATED ON THESE STRUCTURAL DRAWINGS SHALL BE DONE PRIOR TO RECEIVING APPROVAL FROM THE ENGINEER.
4. THESE STRUCTURAL DRAWINGS DO NOT IDENTIFY COMPONENTS REQUIRED FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND PROVIDE COMPONENTS REQUIRED FOR CONSTRUCTION SAFETY.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY BRACING AND MAINTAINING THE STABILITY OF THE STRUCTURES DURING CONSTRUCTION. THE STRUCTURES SHALL BE ASSUMED UNSTABLE UNTIL ALL OF THE WALLS, CONNECTIONS, AND ROOF (IF APPLICABLE) ARE FULLY INSTALLED.
7. SECTIONS AND DETAILS ON THE STRUCTURAL DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR SIMILAR CONSTRUCTION NOT FULLY DETAILED.
8. ALL LIQUID CONTAINMENT CONCRETE STRUCTURES (TANKS, CHANNELS, ETC.) SHALL BE LEAK TESTED IN ACCORDANCE WITH SECTION 03301.
9. CHEMICAL ADHESIVE SYSTEMS SHALL BE USED TO INSTALL ALL COMPONENTS AND ACCESSORIES (BOLTS, DOWELS, ETC.) INTO HARDENED CONCRETE AND MASONRY, U.N.O.
10. THE NOTES ON THIS SHEET ARE ONLY INTENDED TO SUPPLEMENT THE SPECIFICATIONS. REFER TO THE APPLICABLE SPECIFICATIONS FOR ALL REQUIREMENTS AND ADDITIONAL INFORMATION.
11. NOTE THAT REQUIRED SHEET PILING IS NOT NECESSARILY SHOWN IN THE STRUCTURAL DRAWINGS. REFER TO SHEET WGS–301.

SPECIAL INSPECTIONS (REFERENCE SPECIFICATION SECTION 01420):

1. SPECIAL INSPECTIONS ARE REQUIRED FOR PORTIONS OF THIS WORK. REFER TO STATEMENT OF SPECIAL INSPECTIONS AND SECTION 01420.
2. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE COORDINATED WITH CONTRACTOR'S WORK.

EARTHWORK/FOUNDATION NOTES (REFERENCE DIVISION 2 SPECIFICATIONS):

1. ALL FOUNDATION WORK, INCLUDING (BUT NOT LIMITED TO) SUBGRADE PREPARATION AND PLACEMENT OF FILL MATERIAL, SHALL BE PERFORMED AS DESCRIBED IN DIVISION 2 OF THE SPECIFICATIONS.
2. STRUCTURAL FILL MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 02230 AND SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 02300.
3. ALL FOUNDATIONS (NOT SUPPORTED ON PILES) SHALL BE CONSTRUCTED ON FIRM SUBGRADE OR STRUCTURAL FILL.
4. OPEN EXCAVATIONS SHALL BE PROTECTED FROM RAIN AND/OR GROUNDWATER. SUCH EXCAVATIONS MAY BE PROTECTED BY CASTING A MINIMUM 6–INCH THICK CLSM MUD MAT.
5. FOUNDATIONS SHALL NOT BE CAST ON FROZEN SUBGRADE.
6. OWNERS REPRESENTATIVE OR ENGINEER SHALL VERIFY ALL SUBGRADE CONDITIONS PRIOR TO PLACEMENT OF FOUNDATIONS AND SLABS–ON–GRADE.
7. ALL PILES INDICATED IN THE STRUCTURAL DRAWINGS SHALL BE MICROPILES.
8. SHEET PILING ADJACENT TO NEW STRUCTURES SHALL NOT BE REMOVED UNTIL THE CONSTRUCTION OF THE NEW STRUCTURE IS COMPLETED WITH THE TOP SLAB/ROOF IN PLACE.

CONCRETE NOTES (REFERENCE DIVISION 3 SPECIFICATIONS):

1. ALL CONCRETE SHALL BE MIXED, CONVEYED, PLACED, CURED, AND TESTED IN ACCORDANCE WITH ACI 301, ACI 318, ACI 350, AND CHAPTER 19 OF THE BUILDING CODE REFERENCED IN THE "STRUCTURAL DESIGN CRITERIA". REFER TO DIVISION 3 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. AIR ENTRAINMENT IS REQUIRED FOR ALL EXTERIOR EXPOSED CONCRETE AND ALL WATER CONTAINMENT STRUCTURES.
3. CLEAR COVER SHALL CONFORM TO ACI 318 AND ACI 350 AS FOLLOWS:
   - CONCRETE CAST AGAINST EARTH = 3"
   - TOP OF BASE SLABS WITH PVC WATERSTOPS = 3"
   - CONCRETE EXPOSED TO EARTH, WEATHER, AND WATER = 2"
   - BEAMS (TIES & PRIMARY REINFORCEMENT) = 1½"
   - COLUMNS (STIRRUPS & PRIMARY REINFORCEMENT) = 1½"
4. ALL REINFORCING STEEL BARS SHALL BE ASTM A615, GRADE 60, DEFORMED BARS.
5. TYPICAL STRUCTURE REINFORCING BAR LAP LENGTHS (SPLICES) SHALL BE AS SHOWN IN THE "REINFORCEMENT SPLICE LENGTHS" TABLE ON THIS SHEET, UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS. FOR THE DIAPHRAGM WALL SYSTEM, REFER TO THE SPLICE LENGTH TABLE ON SHEET WGS–001.
6. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. THE MINIMUM LAP SPLICE SHALL BE 6 INCHES.
7. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A ¾" BY ¾" CHAMFER (INCLUDING TOPS AND OUTSIDE CORNERS OF WALLS AND SLABS), U.N.O.
8. BEAM POCKETS SHALL BE 8 INCHES DEEP AND FULL WIDTH OF THE BEAM, UNLESS NOTED OTHERWISE.
9. PROVIDE WATERSTOPS IN ALL LIQUID CONTAINMENT STRUCTURES AND ALL STRUCTURES THAT ARE INTENDED TO BE DRY SPACES BELOW GRADE.
10. WATERSTOPS SHALL BE INSTALLED AS A CONTINUOUS LOOP, INTERCONNECTING ALL CONCRETE JOINTS.
11. ALL PVC WATERSTOPS SHOWN ON THE DRAWINGS SHALL BE 6 INCHES, UNLESS NOTED OTHERWISE.
12. PVC WATERSTOPS SHALL BE HEAT–WELDED/GLUED AT ALL SEAMS, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
13. WATERSTOPS IN LIQUID CONTAINMENT STRUCTURES SHALL BE TERMINATED 3 INCHES BELOW THE TOP OF WALLS.
14. WATERSTOPS IN WALLS OF DRY AREAS BELOW GRADE SHALL BE TERMINATED A MINIMUM OF 6 INCHES ABOVE FINISHED GRADE.
15. VERTICAL JOINTS IN FOUNDATION FROST WALLS SHALL LINE UP WITH MASONRY BLOCK CONTROL JOINTS.
16. EXTERIOR SLABS (PADS) SHALL BE A MINIMUM 10" THICK WITH #4@12" T&B EW, OR AS SHOWN ON THE DRAWING.
17. ALL EXTERIOR SLABS SHALL HAVE A ¼" PER FOOT SLOPE (⅛" PER FOOT MINIMUM) IN ORDER TO PROVIDE POSITIVE DRAINAGE.
18. THE CONTRACTOR SHALL PROPOSE ADDITIONAL CONSTRUCTION JOINTS AS NEEDED TO FACILITATE CONSTRUCTION. ALL PROPOSED CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTING.
19. THE CONTRACTOR SHALL COORDINATE ALL OPENINGS AND PENETRATIONS IN CONCRETE WITH ALL ARCHITECTURAL, MECHANICAL, HVAC, PLUMBING, AND ELECTRICAL WORK. NOTE THAT NOT ALL OPENINGS AND PENETRATIONS ARE SHOWN ON THE STRUCTURAL DRAWINGS.
20. COORDINATE AND CAST IN ALL EMBEDDED CONCRETE ACCESSORIES REQUIRED FOR ARCHITECTURAL ACCESSORIES AND MECHANICAL EQUIPMENT.
21. COORDINATE SIZE OF ALL EQUIPMENT PADS, CURBS, AND PIERS WITH APPROVED EQUIPMENT MANUFACTURER.
22. REFER TO DIVISION 3 OF THE SPECIFICATIONS FOR ALL OTHER REQUIREMENTS.

X:
MO/DA/YR CO DFT
DIR/DWG

PRECAST CONCRETE NOTES (REFERENCE DIVISION 3 SPECIFICATIONS):

1. ALL PRECAST CONCRETE UNITS SHALL BE DESIGNED TO WITHSTAND ALL DEAD LOADS, LIVE LOADS, AND ERECTION FORCES INCLUDING THOSE PROVIDED IN THE STRUCTURAL DESIGN CRITERIA ON THIS SHEET.
2. CONNECTIONS BETWEEN PRECAST ROOF PLANKS SHALL BE MADE SO THE PRECAST ROOF SYSTEM CAN ACT AS A DIAPHRAGM. GROUT THE KEYWAY BETWEEN HOLLOW–CORE PLANKS AND INSTALL WELD TABS BETWEEN DOUBLE TEE PLANKS.
3. PRECAST PLANKS SHALL BE CONNECTED TO THE MASONRY WALLS THAT THEY BEAR ON ALONG THE ENDS AND SIDELAPS. REFERENCE THE PLANK CONNECTION DETAILS ON THE CONTRACT DRAWINGS.
4. CONTRACTOR SHALL COORDINATE ALL ROOF PLANK PENETRATIONS MADE IN THE FIELD WITH PRECAST MANUFACTURER TO ENSURE NO PRESTRESSING STEEL IS CUT.
5. MANUFACTURER SHALL BE A PCI–CERTIFIED PLANT FOR PRODUCTION OF PRECAST CONCRETE UNITS. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PCI MNL–117, PCI MNL–120, PCI MANUAL FOR STRUCTURAL DESIGN OF PRECAST CONCRETE.

MASONRY NOTES (REFERENCE DIVISION 4 SPECIFICATIONS):

1. ALL MASONRY WALLS SHALL BE REINFORCED. REFERENCE DETAILS IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
2. CONTINUOUS BOND BEAMS SHALL BE CONSTRUCTED AT THE TOPS OF WALLS THAT SUPPORT A ROOF OR CEILING. CONTROL JOINTS SHALL NOT INTERRUPT THESE TOP BOND BEAMS.
3. ALL MASONRY CELLS CONTAINING REINFORCING BARS SHALL BE GROUTED SOLID.
4. BASE WALL DOWELS ARE TO BE LOCATED IN EVERY REINFORCED CELL.
5. FULLY GROUT ALL CELLS OF MASONRY EXTENDING BELOW GRADE.
6. INFILL MASONRY AROUND BEAMS AND COLUMNS THAT ARE POCKETED IN THE MASONRY.
7. LINTELS ARE REQUIRED FOR ALL OPENINGS GREATER THAT 16 INCHES IN CMU WALLS.

STRUCTURAL STEEL (REFERENCE DIVISION 5 SPECIFICATIONS):

1. ALL STRUCTURAL STEEL MEMBERS AND CONNECTIONS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.
2. MATERIALS FOR STRUCTURAL MEMBERS SHALL CONFORM WITH THE ASTM DESIGNATIONS AS FOLLOWS:
   - W–SHAPES –––> ASTM A992
   - CHANNELS & ANGLES –––> ASTM A36
   - STRUCTURAL PLATES –––> ASTM A36
3. ALL WELDING SHALL BE IN ACCORDANCE WITH THE (AMERICAN WELDING SOCIETY) AWS D1.1–"2004 STRUCTURAL WELDING CODE–STEEL". ALL FIELD WELDS SHALL BE CLEANED AND SHALL BE PRIMED AND TOP COATED WITH PAINT TO PROTECT FROM RUSTING.
4. MATERIALS FOR FASTENERS SHALL CONFORM WITH THE ASTM AND ANSI DESIGNATIONS AS FOLLOWS:
   - STRUCTURAL BOLTS –––> ASTM A325N
   - STRUCTURAL NUTS –––> ASTM A563
   - CARBON STEEL BOLTS –––> ASTM A307 (FOR JOIST BOLTING ONLY)
   - STEEL WASHERS –––> ASTM F436
   - ANCHOR RODS –––> ASTM F1554, GRADE36
   - THREADED RODS –––> ASTM A36
   - FILLER METAL –––> AWS 5.1 OR 5.5
   - WELDING ELECTRODES –––> E70XX SMAW
5. ALL STEEL FRAMING SHALL BE HOT–DIP GALVANIZED PER ASTM A123, U.N.O.

METAL AND MISCELLANEOUS FABRICATIONS (REFERENCE DIVISION 5 SPECIFICATIONS):

1. ALL ALUMINUM TO BE IN CONTACT, CAST INTO OR EMBEDDED INTO MASONRY/CONCRETE SHALL BE BACKPAINTED WITH A BITUMINOUS COATING.
2. ALL FASTENERS USED TO FASTEN ALUMINUM SHALL BE TYPE 316, STAINLESS STEEL.
3. ALL FASTENERS USED TO FASTEN FIBERGLASS SHALL BE TYPE 316, STAINLESS STEEL.
4. GRATING SHALL EXTEND TO WITHIN 2 INCHES OF SLIDE GATES AND STOP PLATES.
5. ALL GRATING SHALL HAVE A NON–SLIP SURFACE.
6. ALL GRATING SHALL BE INSTALLED WITH STAINLESS STEEL HOLD DOWN CLIPS.
7. ALUMINUM GRATING PANELS SHALL BE EDGE BANDED.

REINFORCEMENT SPLICE LENGTHS
(DEVELOPMENT AND LAP SPLICES FOR TYPICAL STRUCTURES)

SIZE	HORIZONTAL BARS *	OTHER BARS
#4	24" (2'–0")	18" (1'–6")
#5	30" (2'–6")	21" (1'–9")
#6	36" (3'–0")	24" (2'–0")
#7	48" (4'–0")	33" (2'–9")
#8	54" (4'–6")	39" (3'–3")
#9	60" (5'–0")	42" (3'–6")
#10	66" (5'–6")	48" (4'–0")

* HORIZONTAL BARS INCLUDE:
1. HORIZONTAL WALL REINFORCING BARS.
2. REINFORCING BARS FOR BEAMS AND GRADE BEAMS.
3. REINFORCING BARS FOR SLABS AND WALL FOOTINGS GREATER THAN 12" THICK.

RFI 225
BASED UPON FURTHER REVIEW OF OUR STRUCTURAL DESIGNS, IT WOULD BE ACCEPTABLE TO PLACE BACKFILL UP TO ELEVATION 384.0' AROUND THE OVERFLOW CHANNEL WITHOUT THE FLOOR SLAB BEING IN-PLACE.

SYMBOLS AND LEGEND

- BENTONITE WATERSTOP
- CENTERLINE ℄
- PLATE
- CONCRETE HOUSEKEEPING PAD
- CONCRETE EQUIPMENT/PUMP PAD
- SLOPE CALLOUT (SLOPE)
- LIFTING EYE LOCATION
- 6" PVC WATERSTOP, UNLESS NOTED OTHERWISE
- DECK / PLANK SPAN
- STEEL REINFORCEMENT IN CONCRETE
- WELDED WIRE REINFORCEMENT IN CONCRETE
- CONCRETE
- EXISTING CONCRETE
- NON–SHRINK GROUT
- FERROUS OR NON–FERROUS MATERIAL IN SECTION
- ALUMINUM GRATING
- FRP GRATING
- PUNCHED ALUMINUM PLANK
- ALUMINUM CHECKERED PLATE
- CONCRETE MASONRY UNIT
- BRICK
- BLOCKING OR FRAMING, CONTINUOUS
- BLOCKING OR SHIM, NOT CONTINUOUS
- PLYWOOD OR LAMINATED VENEER LUMBER
- RIGID INSULATION
- UNDISTURBED EARTH
- FINISHED GRADE
- UNDISTURBED ROCK
- EXCAVATION LIMITS / COMPACTED STRUCTURAL FILL (SEE SPECIFICATION SECTION 02223)
- BEDROCK

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT OR ARCHITECTURAL
ASSY	ASSEMBLY
B/	BOTTOM OF
B/F	BOTTOM OF FOOTING
BIT	BITUMINOUS
BLDG	BUILDING
BM	BEAM
BOT OR B	BOTTOM
BP	BASE PLATE
BRG	BEARING
BRK	BRICK
℄	CENTERLINE
CC	CENTER TO CENTER
CF OR CU FT	CUBIC FEET
CI	CAST IRON
CIRC	CIRCLE/CIRCULAR
CL JT	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CLSM	CONTROLLED LOW–STRENGTH MATERIAL
CRF	CHEMICAL RESISTANT FINISH
CS JT	CONSTRUCTION JOINT
CY OR CU YD	CUBIC YARD
DEFL	DEFLECTION
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
FAB	FABRICATE
FD	FLOOR DRAIN
FF	FAR FACE / FINISHED FLOOR
FIN	FINISH
FLR	FLOOR
FND	FOUNDATION
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FOOTING STEP
FT	FEET
FTG	FOOTING
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
HD	HEAVY DUTY
HOR OR H	HORIZONTAL
H PT	HIGH POINT
HSS	HOLLOW STRUCTURAL SHAPE
HT	HEIGHT
IF	INSIDE FACE
INT	INTERIOR
INV	INVERT
ISO	ISOLATION
JST	JOIST
JT	JOINT
K	1000 POUNDS (1 KIP)
L PT	LOW POINT
L OR ∠	ANGLE
LE	LEFT END
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
MULT	MULTIPLE
NF	NEAR FACE
NTS	NOT TO SCALE
OC	ON CENTERS / ODOR CONTROL
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
P.	PLATE
PAR	PARALLEL
PEP	PERSONAL ENTRY POINT
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RISER / REACTION / RADIUS
RAD	RADIUS
RD	ROOF DRAIN
RE	RIGHT END
REF	REFERENCE
REINF	REINFORCEMENT
RM	ROOM
RO	ROUGH OPENING
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
STL JST	STEEL JOIST
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIRR	STIRRUPS
STL	STEEL
STRU	STRUCTURAL
T & B	TOP AND BOTTOM
T	TREAD OR TOP
T/F	TOP OF FOOTING
T/G	TOP OF GROUT /GRATING
T/M	TOP OF MASONRY
T/S	TOP OF SLAB / STEEL
T/W	TOP OF WALL
THK	THICK
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V	VERTICAL
W/	WITH
W/O	WITHOUT
WP	WORKING POINT
WS	WATERSTOP
WT	WEIGHT
WWR	WELDED WIRE REINFORCEMENT

STRUCTURAL DESIGN CRITERIA

(Per 2010 Building Code of New York State)

FLOOR LIVE LOADS:

Electrical / Mechanical Rooms	250	(psf)
Truck Loading Bay	250	(psf)
Office & Control Rooms	100	(psf)
Stairways and Landings	100	(psf)
Walkways and Platforms	100	(psf)
@ Personnel Entry Points (PEP)	5,000	(lbs)

ROOF LIVE LOADS:

Minimum Roof Live Load:	20	(psf)

ROOF TRUSS DEAD LOADS:

Top Chord Dead Loads:	10	(psf)
Bottom Chord Dead Loads:	5	(psf)
Bottom Chord Collateral Loads:	10	(psf)
Bottom Chord Concentrated Loads:	300	(lbs)
(located anywhere along bottom chord)		

ROOF PLANK DEAD LOADS:

Roofing Dead Loads:	16	(psf)
Green Roof (Collateral) Load:	60	(psf)
Ceiling Collateral Loads:	8	(psf)
Concentrated Load on each Plank:	3,000	(lbs)
(located anywhere on each Plank)		

ROOF SNOW LOAD:

Ground Snow Load, P_g:	55	(psf)
Flat-roof Snow Load, P_f:	47	(psf)
Sloped-roof Snow Load, P_s:	47	(psf)
Snow Drifting Load, P_d:	(see Roof Plans)	
Snow Exposure Factor, C_e:	1.0	
Snow Load Importance Factor, I:	1.1	
Thermal Factor, C_t:	1.1	

WIND LOAD:

Basic Wind Speed, V_{3s}:	90	(mph)
Wind Importance Factor, I_w:	1.15	
Wind Exposure:	C	
Internal Pressure Coefficients:	+/- 0.18	
Design Wind Pressure used for Components & Cladding:		
@ Walls:	+22 / -29	(psf)
@ Roofs:	+10 / -39	(psf)

EARTHQUAKE DESIGN DATA:

Seismic Importance Factor, I:	1.25	
Occupancy Category:	III	
Mapped Spectral Response Accelerations:		
S_s	0.141g	
S_1	0.053g	
Site Class:	D	
Design Spectral Response Accelerations:		
S_{DS}	0.150g	
S_{D1}	0.085g	
Seismic Design Category:	B	
Basic seismic-force-resisting system(s):		
Bearing Wall System - Ordinary Reinforced Masonry Shear Walls		
Design Base Shear, V:		
@ West Side Facility:	935	kips
@ East Side Facility:	25	kips
Seismic Response Coefficient(s), C_s:	0.094	
Response Modification Factor(s), R:	2	
Analysis Procedure:	*Equivalent Lateral Force Procedure*	

SOIL DATA:

Design Frost Depth:	60	inches
Design Soil Bearing Pressure: on Undisturbed Material or Structural Fill	2,000	(psf)

PILE DATA:

Design Pile Capacity:	150	tons

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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: 05/16 PER: RCF

SCALE:

No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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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 CMK
Designed by MJL
Drawn by MJL
Checked by BTM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

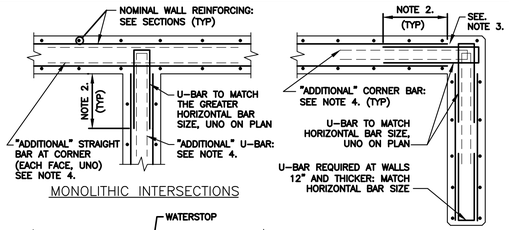
STANDARD NOTES SYMBOLS AND ABBREVIATIONS

STRUCTURAL

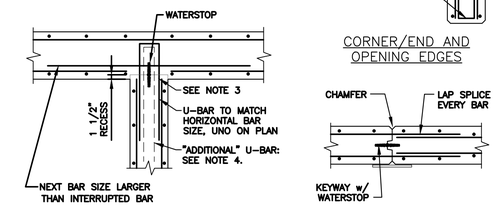
STATE OF NEW YORK · GERALD C. HOOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

S–001



MONOLITHIC INTERSECTIONS



CONSTRUCTION JOINT INTERSECTION

CONSTRUCTION JOINT (CS JT)

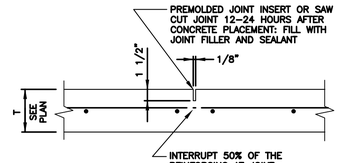
CORNER/END AND OPENING EDGES

NOTES FOR WALLS:

1. LIQUID CONTAINMENT STRUCTURES AND DRY AREAS BELOW GRADE SHALL USE WATERSTOPS AS SHOWN (TANKS, CHANNELS, WETWELLS, BASEMENTS AND VAULTS ETC.)
2. LAP REINFORCING STEEL PER SPECIFICATIONS SECTION 03200.
3. TERMINATE NOMINAL HORIZONTAL BARS IN LINE WITH INSIDE FACE OF WALL. DO NOT EXTEND INTO WALL CORNER OR INTERSECTION.
4. PROVIDE "ADDITIONAL" HORIZONTAL BARS AT WALL CORNERS AND INTERSECTIONS WHERE INDICATED ON PLANS.

HORIZONTAL WALL REINFORCING – PLAN VIEW

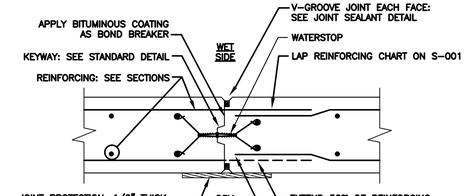
NOT TO SCALE



NOTE: THIS DETAIL DOES NOT APPLY TO SLABS MORE THAN 8" THICK.

SLAB ON GRADE CONTROL JOINT (CL JT)

NOT TO SCALE

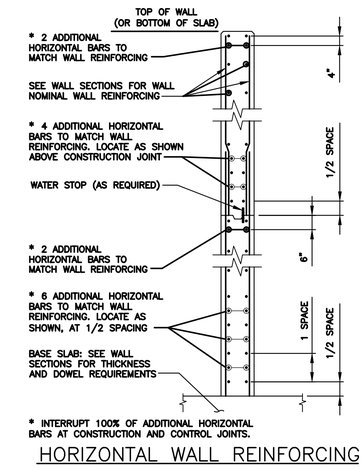


PLAN VIEW

NOTES:
1. SEE PLAN FOR REQUIRED CONSTRUCTION JOINT LOCATIONS.
2. EACH WALL SECTION SHALL BE CURED FOR 3 DAYS BEFORE ADJACENT SECTION IS PLACED. REFER TO SPEC SECTION 03250.

WALL CONTROL JOINT (CL JT)

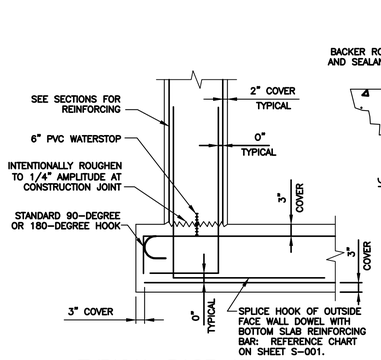
NOT TO SCALE



* INTERRUPT 100% OF ADDITIONAL HORIZONTAL BARS AT CONSTRUCTION AND CONTROL JOINTS.

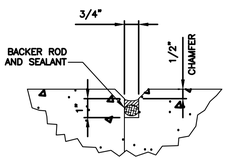
HORIZONTAL WALL REINFORCING DETAILS – SECTION VIEW

NOT TO SCALE



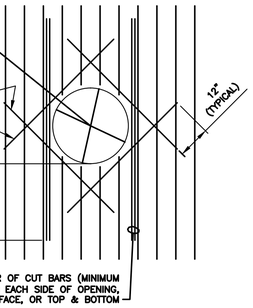
TYPICAL BASE AT WALL

NOT TO SCALE



JOINT SEALANT

NOT TO SCALE

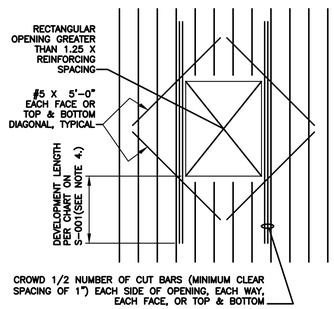


NOTES:

1. BARS SHOWN IN ONE DIRECTION FOR CLARITY. INSTALL BARS IN OTHER DIRECTION IN SAME MANNER.
2. DETAIL TO BE USED AT ALL WALL/SLAB PENETRATIONS MEETING OPENING CRITERIA ABOVE. AT SMALLER OPENINGS, SPREAD REINFORCING AROUND OPENING.
3. CROWDED BARS ARE NOT REQUIRED AT AN OPENING EDGE PARALLEL TO AND WITHIN 6 INCHES OF A WALL OR BEAM.
4. PROVIDE STANDARD HOOK IF FULL DEVELOPMENT LENGTH IS NOT POSSIBLE.
5. REINFORCING STEEL IS TO BE CARRIED ACROSS ALL CONSTRUCTION JOINTS.

CIRCULAR OPENING IN WALL/SLAB

NOT TO SCALE



NOTES:

1. BARS SHOWN IN ONE DIRECTION FOR CLARITY. INSTALL BARS IN OTHER DIRECTION IN SAME MANNER.
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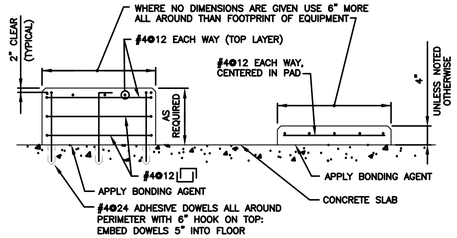
4. PROVIDE STANDARD HOOK IF FULL DEVELOPMENT LENGTH IS NOT POSSIBLE.
5. REINFORCING STEEL IS TO BE CARRIED ACROSS ALL CONSTRUCTION JOINTS.
6. AT DOORWAYS WHERE OPENING TERMINATES AT BOTTOM OF WALL, PROVIDE 1/2 CROWDED VERTICAL BARS EACH SIDE OF OPENING AND 1/2 CROWDED HORIZONTAL BARS ALONG TOP OF OPENING. PROVIDE DIAGONAL BARS ONLY AT TOP TWO CORNERS OF OPENING.

RECTANGULAR OPENING IN WALL/SLAB

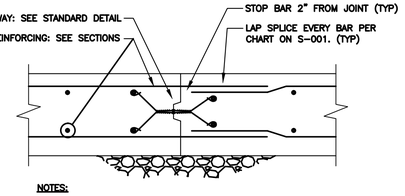
NOT TO SCALE



TYPICAL EQUIPMENT/PUMP PAD ♦ HOUSEKEEPING PAD ▲

REINFORCEMENT DETAILS FOR CONCRETE PADS

NOT TO SCALE

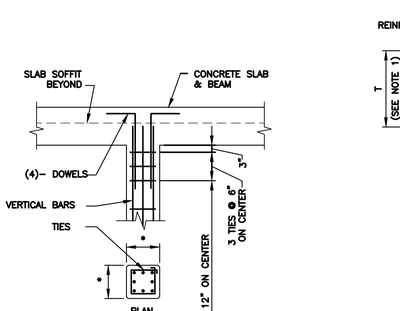


NOTES:

1. SEE PLAN FOR REQUIRED CONSTRUCTION JOINT LOCATIONS.
2. EACH SLAB SECTION SHALL BE CURED FOR 3 DAYS BEFORE ADJACENT SECTION IS PLACED. REFER SPEC SECTION 03250.

TANK BASE SLAB CONSTRUCTION JOINT (CS JT)

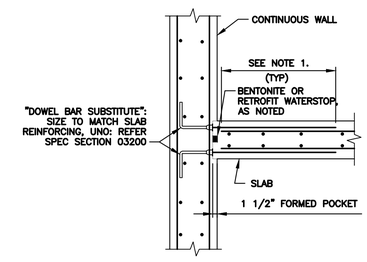
NOT TO SCALE



* REFER TO DRAWINGS FOR COLUMN REINFORCEMENT AND SIZES

COLUMN REINFORCEMENT

NOT TO SCALE



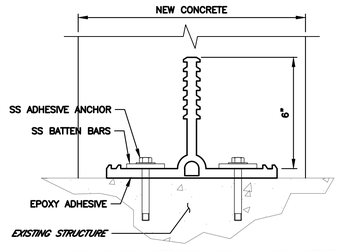
SECTION VIEW

NOTES:

1. REINFORCING STEEL SHALL BE LAPPED PER CHART ON S–001.
2. SEE WALL SECTIONS FOR WALL AND SLAB REINFORCING.

SLAB POCKET WITH WATERSTOP

NOT TO SCALE

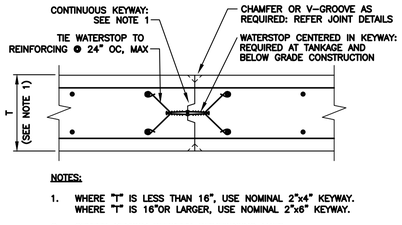


NOTE: T–SHAPED WATERSTOP SHOWN. L–SHAPED WATERSTOP IS SIMILAR WITH ONLY ONE BATTEN BAR.

(REFERENCE SECTION 03250)

RETROFIT WATERSTOP SYSTEM

NOT TO SCALE



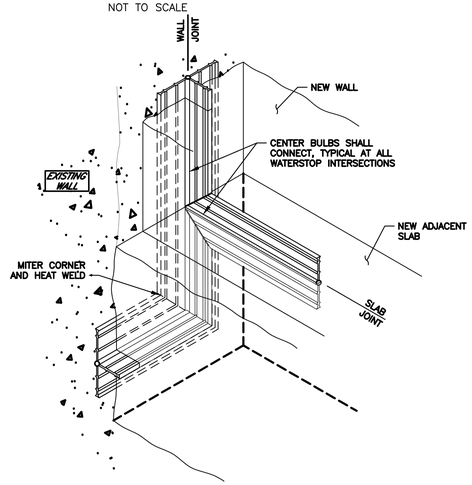
NOTES:

1. WHERE "T" IS LESS THAN 16", USE NOMINAL 2"x4" KEYWAY. WHERE "T" IS 16"OR LARGER, USE NOMINAL 2"x6" KEYWAY.
2. CENTER KEYWAY BETWEEN REINFORCING MATS.
3. STOP KEYWAY (AND WATERSTOP) 3" FROM TOP OF WALL.
4. OMIT KEYWAY AT WALLS LESS THAN 12" THICK.
5. SEE SECTIONS FOR REINFORCING.

PLAN OR SECTION VIEW

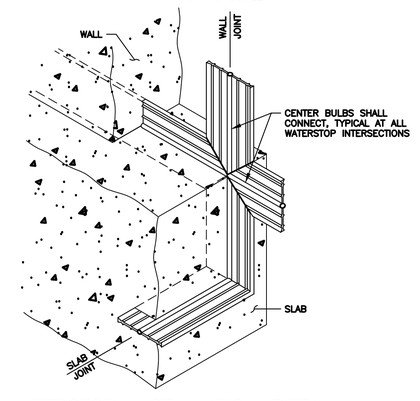
KEYWAY IN WALL OR SLAB

NOT TO SCALE



RETROFIT WATERSTOP INSTALLATION DETAIL

NOT TO SCALE



WATERSTOP INSTALLATION DETAIL

NOT TO SCALE

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

In charge of CMK
Designed by CMK
Drawn by MJL
Checked by BTM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

STANDARD DETAILS

STRUCTURAL

STATE OF NEW YORK • GERALD C. ROOK • No. 57504 • LICENSED PROFESSIONAL ENGINEER

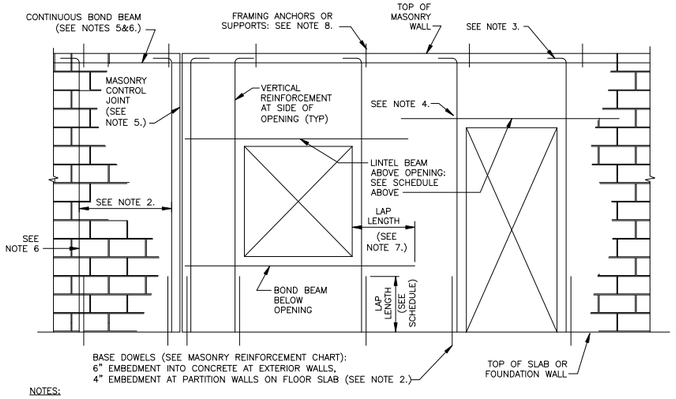
File Number 00663
Date 04/11

S–002

MASONRY WALL REINFORCEMENT CHART

STRUCTURE	WALL LOCATION	CMU WALL WIDTH (1)	VERTICAL REINFORCEMENT AND BASE DOWELS (2)	BOND BEAM REINFORCEMENT
WEST FACILITY	ELECTRICAL RM AND OFFICES, WEST WALL	12"	#6 @ 32" UNO	(2) #6
WEST FACILITY	ELECTRICAL RM AND OFFICES, NORTH/SOUTH WALLS	12"	#5 @ 32" UNO	(2) #6
WEST FACILITY	ODOR CONTROL RM, WEST/EAST WALLS	12"	#6 @ 32" UNO	(2) #6
WEST FACILITY	ODOR CONTROL RM, NORTH WALL	12"	#6 @ 16" UNO	(2) #6
WEST FACILITY	2 GRIT RM, WEST/EAST WALLS	12"	#6 @ 32" UNO	(2) #6
WEST FACILITY	GRIT RM, NORTH WALL	12"	#8 @ 32" UNO 2	(2) #6
WEST FACILITY	GRIT RM, SOUTH WALL	12"	#6 @ 24" UNO	(2) #6
WEST FACILITY	MECHANICAL & STORAGE RM, EAST WALLS	12"	#6 @ 24" UNO	(2) #6
WEST FACILITY	MECHANICAL & STORAGE RM, NORTH/SOUTH WALLS	12"	#6 @ 32" UNO	(2) #6
WEST FACILITY	TRUCK LOADING, EAST WALL	12"	#5 @ 40" UNO	(2) #6
WEST FACILITY	STAIR TOWER, NORTH, SOUTH & WEST WALL	12"	#5 @ 40" UNO	(2) #6
EAST ENTRANCE BUILDING	ALL WALLS	8"	#6 @ 32" OC UNO	(2) #5

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR CMU WALL WIDTHS.
2. BASE DOWELS SHALL BE PLACED AT ALL VERTICAL BAR LOCATIONS.

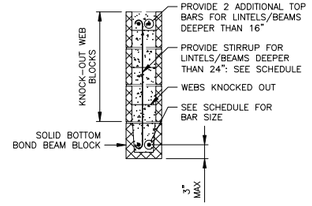


NOTES:

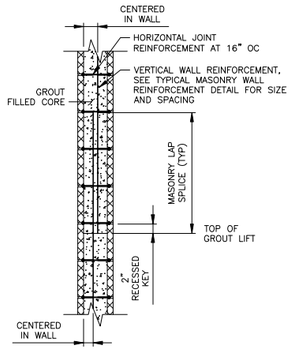
1. REINFORCEMENT TYPICAL AT INTERIOR AND EXTERIOR WALLS AS NOTED.
2. FOR EXTERIOR AND LOAD BEARING WALLS, REFER TO MASONRY WALL REINFORCEMENT CHART. FOR INTERIOR NON-LOADBEARING PARTITION WALLS, PROVIDE SAME VERTICAL BAR SIZE AT 8'-0" MAX SPACING. SEE THIS SHEET FOR REQUIRED REINFORCEMENT LOCATIONS.
3. VERTICAL REINFORCEMENT SHALL TERMINATE WITH STANDARD HOOK 2" CLEAR FROM TOP OF BOND BEAM.
4. VERTICAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH BOND BEAMS AND LINTELS BY PROVIDING 3" DIAMETER OPENING IN BOTTOM OF BOND BEAM OR LINTEL BLOCK.
5. PROVIDE VERTICAL REINFORCEMENT EACH SIDE OF MASONRY CONTROL JOINTS. TERMINATE MID-WALL BOND BEAMS AT CONTROL JOINTS. BOND BEAM REINFORCEMENT AT TOP OF WALL SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
6. VERTICAL REINFORCEMENT SHALL BE CENTERED IN CELL. BOND BEAM AND LINTEL REINFORCEMENT SHALL BE CENTERED 3" MAX TO BOTTOM FACE OF MASONRY BLOCK.
7. WHERE ADJACENT OPENING OCCURS WITHIN LAP SPLICE LENGTH, TERMINATE BOND BEAM AT EDGE OF ADJACENT OPENING WITH STANDARD HOOK AROUND VERTICAL BAR.
8. AT EXTERIOR AND LOAD BEARING WALLS, REFER TO STRUCTURAL DRAWINGS FOR ROOF CONNECTION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR NON-LOADBEARING PARTITION WALL BRACING DETAILS.
9. SEE ARCHITECTURAL DRAWINGS FOR CMU TYPE AT EACH BUILDING. SEE ARCHITECTURAL DETAILS AND SPECIFICATION SECTIONS 04810FOR ADDITIONAL REQUIREMENTS.

TYPICAL MASONRY WALL REINFORCEMENT DETAILS
NOT TO SCALE

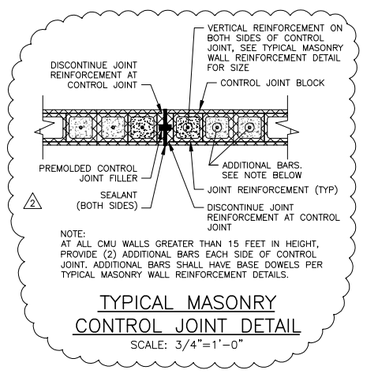
MASONRY REINFORCEMENT BAR LAP LENGTH SCHEDULE	
BAR SIZE	LAP LENGTH
#3	2'-0"
#4	2'-0"
#5	2'-8"
#6	3'-0"
#7	3'-4"
#8	4'-0"
#9	4'-8"



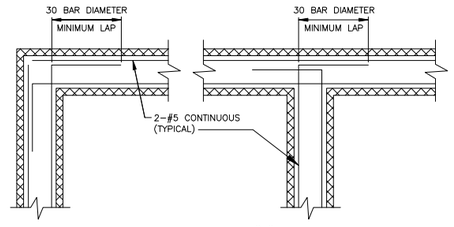
TYPICAL MASONRY LINTEL/BEAM CONSTRUCTION
SCALE: 3/4"=1'-0"



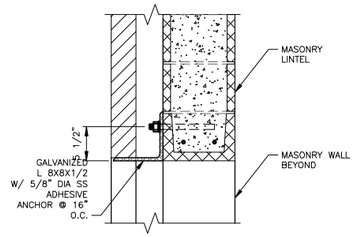
TYPICAL MASONRY WALL SECTION
SCALE: 3/4"=1'-0"



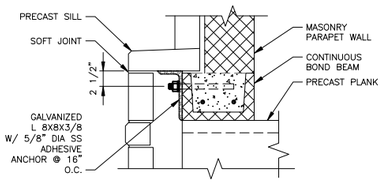
TYPICAL MASONRY CONTROL JOINT DETAIL
SCALE: 3/4"=1'-0"



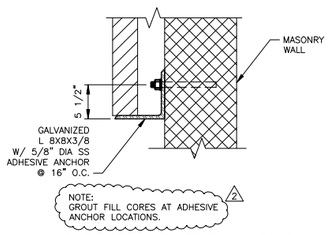
BOND BEAM REINFORCING PLACEMENT
NOT TO SCALE



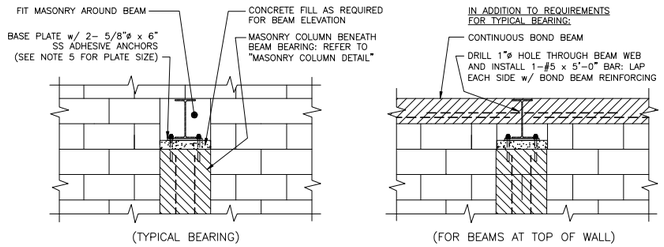
MASONRY LINTEL ANGLE
SCALE: 1" = 1'-0"



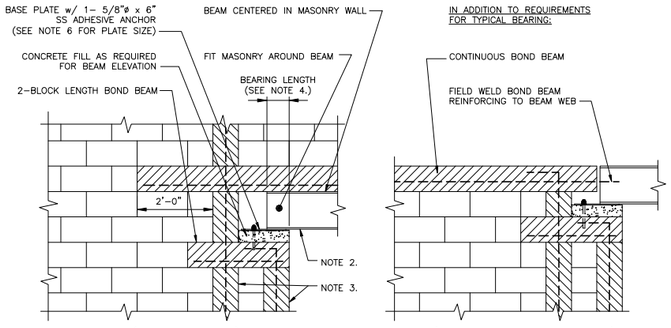
PARAPET SHELF ANGLE
SCALE: 1" = 1'-0"



MASONRY SHELF ANGLE
SCALE: 1" = 1'-0"



BEARING PERPENDICULAR TO WALL



BEARING PARALLEL TO WALL

NOTES:

1. FILL BOND BEAMS AND REINFORCED MASONRY CORES w/ MASONRY GROUT. REFER TO "MASONRY WALL REINFORCING DETAIL" FOR BAR SIZES.
2. SEE ARCHITECTURAL DRAWINGS FOR LINTEL PLATE REQUIREMENTS AND MASONRY INFILL AROUND LINTEL BEAMS.
3. WHERE BEAM BEARS PARALLEL TO WALL, PROVIDE VERTICAL REINFORCING AT FIRST CORE FROM OPENING AND TERMINATE BELOW BOTTOM OF STEEL BEAM. ALSO PROVIDE VERTICAL REINFORCING AT FIRST CORE BEYOND END OF BEARING PLATE AND EXTEND TO TOP OF WALL.
4. BEAM BEARING LENGTH AS FOLLOWS: BEAMS UP TO 12" TALL, USE 8" BEARING
   BEAMS LARGER THAN 12", USE 16" BEARING.
5. FOR BEAM BEARING PERPENDICULAR TO WALL, BASE PLATE SIZE SHALL BE 3/8" x (WALL WIDTH - 1") x (FLANGE WIDTH + 6").
6. FOR BEAM BEARING PARALLEL TO WALL, BASE PLATE SIZE SHALL BE 3/8" x (WALL WIDTH - 1") x (BEARING LENGTH + 6").

BEAM BEARING AT MASONRY WALL
NOT TO SCALE

MASONRY LINTEL SCHEDULE

STRUCTURE	DOOR, WINDOW, OR LOUVER	CMU WIDTH	LINTEL DEPTH	REINFORCEMENT (2-#5, UNO)	STIRRUPS (SIZE & SPACING)
WEST STRUCTURE	MAX 4'-0" MO	12"	24"	(2) #5	
	MAX 6'-0" MO	12"	24"	(2) #5	
	MAX 8'-0" MO	12"	32"	(2) #5	#3 @ 12" 2
	MAX 10'-0" MO	12"	32"	(2) #5	#3 @ 6"
	MAX 12'-0" MO	12"	40"	(2) #6	#4 @ 6"
	MAX 16'-0" MO	12"	40"	(2) #7	#5 @ 6"
EAST STRUCTURE	MAX 4'-0" MO	8"	16"	(2) #5	
	MAX 6'-0" MO	8"	24"	(2) #5	
	MAX 8'-0" MO	8"	32"	(2) #5	#3 @ 12" 2

RFI 251
THE HORIZONTAL LEG WILL NEED TO BE CUT BACK AS SHOWN IN THE DETAIL. IT IS NOTED THAT THESE SUPPORT ANGLES HAVE ARRIVED ON SITE WITHOUT THE CUT LEG. AS PROPOSED IN THE FIELD, IT WOULD BE ACCEPTABLE TO CUT THE LEG AND TOUCH-UP THE GALVANIZED COATING WITH ADDITIONAL THICKNESS OF GALVANIZED COATING ALONG THE CUT EDGE. THE INFORMATION PROVIDED IN THE "PARAPET SHELF ANGLE" DETAIL ON CONTRACTOR DRAWING S-003 DOES NOT REQUIRE A FIELD ORDER FOR FURTHER CLARIFICATION.

RFI 116
THE PARAPET SHELF ANGLE SHALL BE A GALVANIZED 8"x8"x3/8". INSTALL PER THE PARAPET SHELF ANGLE DETAIL ON DRAWING S-003.

THE MASONRY SHELF ANGLES SHALL BE GALVANIZED 8"x8"x1/2". INSTALL PER THE MASONRY SHELF ANGLE AND THE MASONRY LINTEL ANGLE DETAILS.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
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: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:

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.

No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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In charge of CMK
Designed by CMK
Drawn by MJL
Checked by BTM

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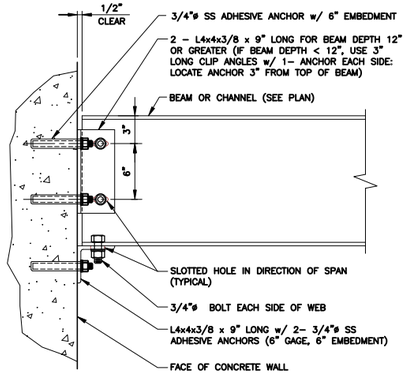
File Number 00663
Date 04/11

S-003

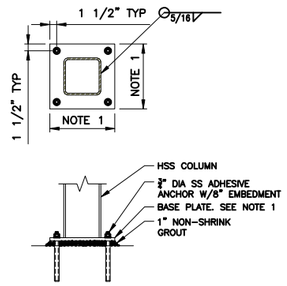


NOTES:

1. CLIP ANGLE MATERIAL TO MATCH BEAM MATERIAL.
2. SEE PLANS FOR BEAM SIZE AND MATERIAL.

BEAM AND CHANNEL CONNECTION TO CONCRETE WALL

NOT TO SCALE

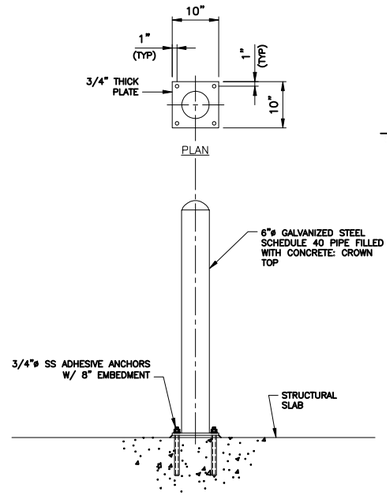


NOTES:

1. BASE PLATE SIZE SHALL BE 3/4" X (FLANGE WIDTH + 6") X (WEB WIDTH + 6").

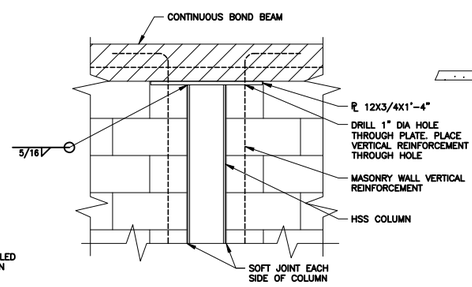
BASE PLATE DETAIL

NOT TO SCALE



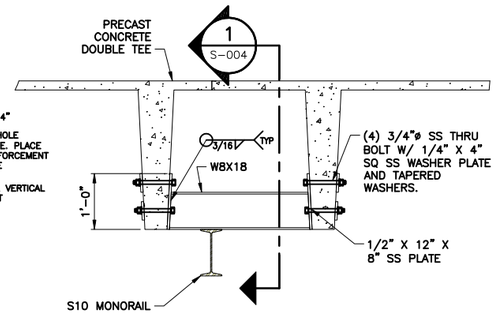
PIPE BOLLARD (TOP MOUNTED)

NOT TO SCALE



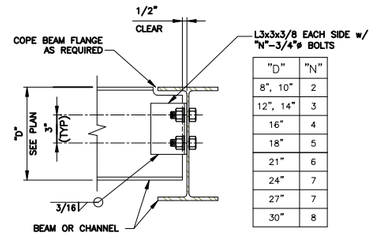
OVERHEAD BRIDGE CRANE COLUMN TOP BRACE DETAIL

NOT TO SCALE



MONORAIL SUPPORT DETAIL

SCALE: 3/4"=1'–0"



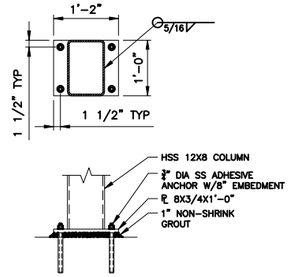
"D"	"N"
8", 10"	2
12", 14"	3
16"	4
18"	5
21"	6
24"	7
27"	7
30"	8

NOTES:

1. CONNECTION TO COLUMN FLANGE OR WEB SIMILAR.
2. TYPICAL CONNECTION FOR ALUMINUM OR STEEL.
3. CLIP ANGLE MATERIAL TO MATCH BEAM MATERIAL.
4. PROVIDE SINGLE SIDED CONNECTION AT CHANNELS. PROVIDE DOUBLE SIDED CONNECTION AT WIDE FLANGE BEAMS.
5. FOR 6" DEEP MEMBERS, USE ∠6x6x3/8 x 4" LONG CLIP ANGLES WITH 2– 3/4"ø BOLTS ON OUTSTANDING LEG ALIGNED HORIZONTALLY.
6. USE STAINLESS STEEL BOLTS WITH ALUMINUM FRAMING.

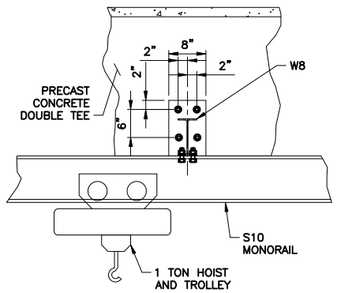
TYPICAL BEAM AND CHANNEL CONNECTION

NOT TO SCALE



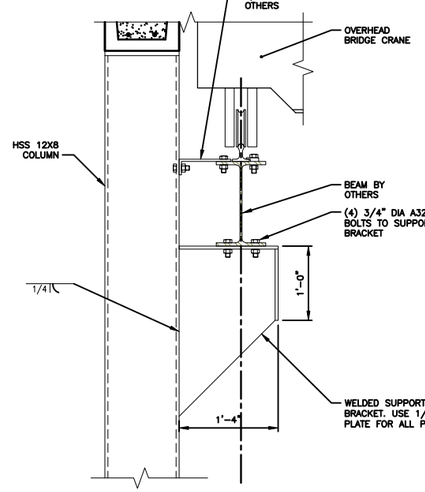
OVERHEAD BRIDGE CRANE COLUMN BASE PLATE DETAIL

NOT TO SCALE



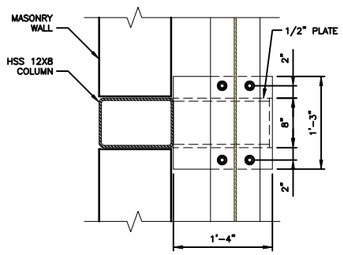
SECTION 1/S–004

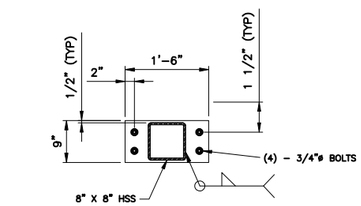
3/4"=1'–0"



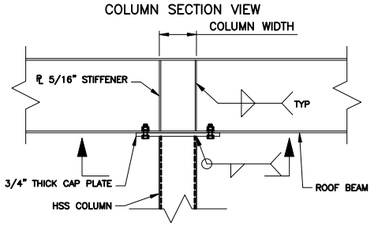
OVERHEAD BRIDGE CRANE SUPPORT BRACKET DETAIL

NOT TO SCALE





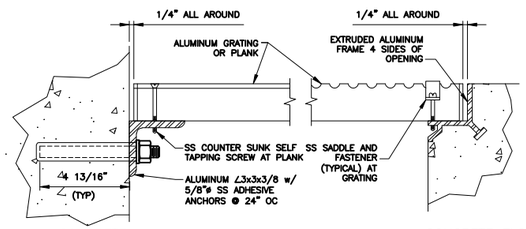
COLUMN SECTION VIEW



NOTE:
REFER TO CONTRACT DRAWINGS FOR SIZE OF BEAM AND COLUMNS

CONTINUOUS BEAM OVER COLUMN DETAIL

SCALE: 3/4"=1'–0"



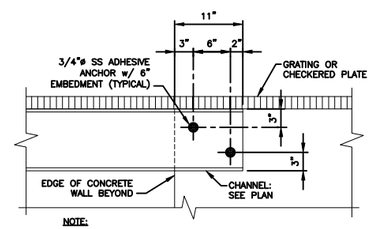
CONCRETE WALL (OR WHERE INDICATED)

CONCRETE FLOOR

NOTE: BOTH SUPPORT TYPES ARE APPLICABLE FOR GRATING AND PLANK.

GRATING AND PLANK

NOT TO SCALE
(REFERENCE SECTION 05531)



NOTE:
WHERE CHANNEL SIZE IS NOT SPECIFIED ON THE PLANS, PROVIDE ALUMINUM CS6x2.83.

SIDE–MOUNTED CHANNEL FOR SUPPORT OF GRATING/CHECKERED PLATE

NOT TO SCALE

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

File: C:\Users\idgomez\Desktop\Field Order 51.pdf
Missing or invalid reference

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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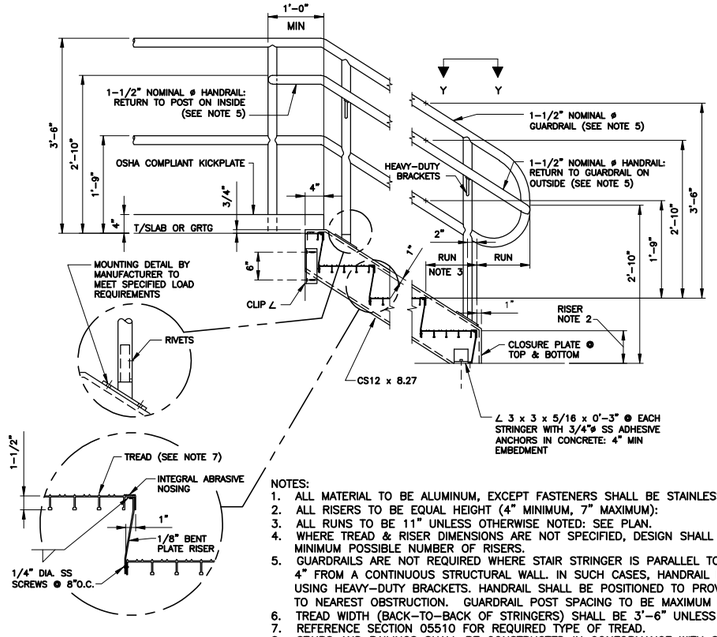
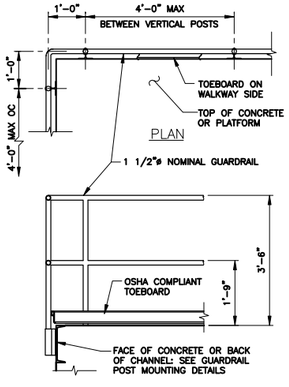
S–004



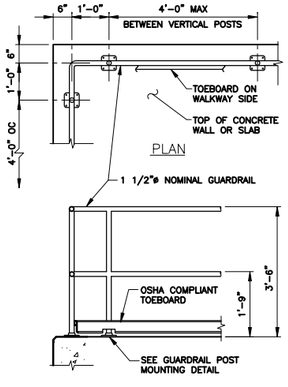
NOTES:
1. ALL MATERIAL TO BE ALUMINUM, EXCEPT FASTENERS SHALL BE STAINLESS STEEL.
2. ALL RISERS TO BE EQUAL HEIGHT (4" MINIMUM, 7" MAXIMUM):
3. ALL RUNS TO BE 11" UNLESS OTHERWISE NOTED: SEE PLAN.
4. WHERE TREAD & RISER DIMENSIONS ARE NOT SPECIFIED, DESIGN SHALL BE BY STAIR MANUFACTURER USING MINIMUM POSSIBLE NUMBER OF RISERS.
5. GUARDRAILS ARE NOT REQUIRED WHERE STAIR STRINGER IS PARALLEL TO AND MOUNTED LESS THAN 4" FROM A CONTINUOUS STRUCTURAL WALL. IN SUCH CASES, HANDRAIL MAY BE MOUNTED TO WALL USING HEAVY-DUTY BRACKETS. HANDRAIL SHALL BE POSITIONED TO PROVIDE CONTINUOUS 3" CLEARANCE TO NEAREST OBSTRUCTION. GUARDRAIL POST SPACING TO BE MAXIMUM OF 4'-0" ON CENTER.
6. TREAD WIDTH (BACK-TO-BACK OF STRINGERS) SHALL BE 3'-6" UNLESS OTHERWISE NOTED.
7. REFERENCE SECTION 05510 FOR REQUIRED TYPE OF TREAD.
8. STAIRS AND RAILINGS SHALL BE CONSTRUCTED IN CONFORMANCE WITH SECTIONS 05510 AND 05520 OF THE TECHNICAL SPECIFICATIONS. RAILINGS, BRACKETS, STRINGERS, TREADS, AND OTHER COMPONENTS SHALL BE CONSTRUCTED TO SUPPORT THE LOADS STATED IN THOSE SECTIONS.

ALUMINUM STAIR DETAIL
NOT TO SCALE



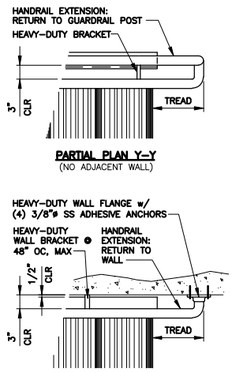
(SIDE-MOUNTED TO CONCRETE OR METAL PLATFORM)

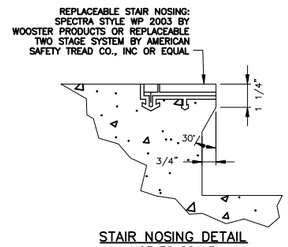
GUARDRAIL DETAIL
NOT TO SCALE
(REFERENCE SECTION 05520)



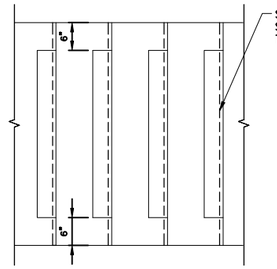
(TOP-MOUNTED ON CONCRETE)

GUARDRAIL DETAIL
NOT TO SCALE
(REFERENCE SECTION 05520)





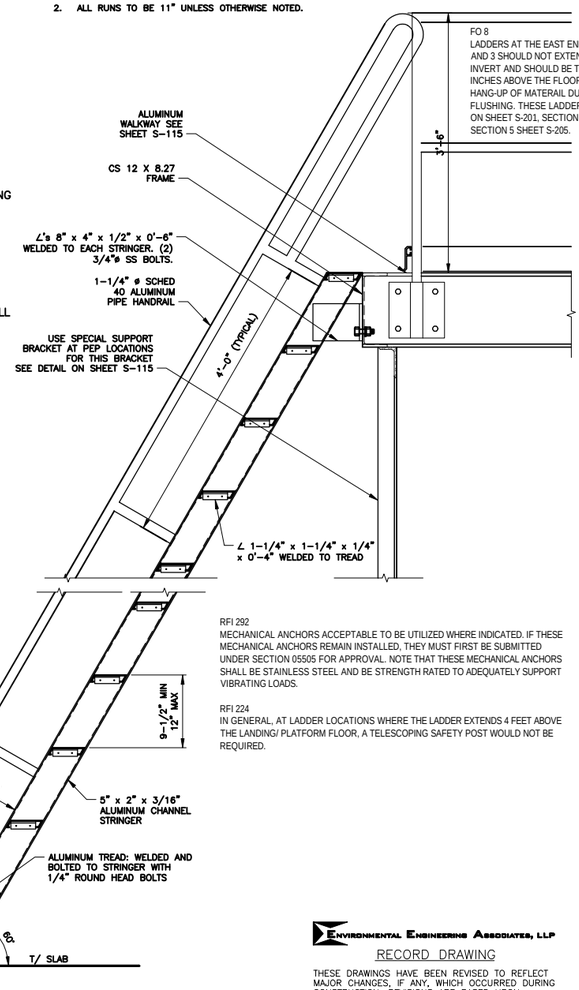
STAIR NOSING DETAIL
NOT TO SCALE



PARTIAL STAIR TREAD PLAN
NOT TO SCALE

CONCRETE STAIR AND LANDING DETAILS
NOT TO SCALE

NOTES:
1. ALL RISERS TO BE EQUAL HEIGHT (4" MINIMUM, 7" MAXIMUM): SEE PLAN.
2. ALL RUNS TO BE 11" UNLESS OTHERWISE NOTED.



RFI 292
MECHANICAL ANCHORS ACCEPTABLE TO BE UTILIZED WHERE INDICATED. IF THESE MECHANICAL ANCHORS REMAIN INSTALLED, THEY MUST FIRST BE SUBMITTED UNDER SECTION 05505 FOR APPROVAL. NOTE THAT THESE MECHANICAL ANCHORS SHALL BE STAINLESS STEEL AND BE STRENGTH RATED TO ADEQUATELY SUPPORT VIBRATING LOADS.

RFI 224
IN GENERAL, AT LADDER LOCATIONS WHERE THE LADDER EXTENDS 4 FEET ABOVE THE LANDING/ PLATFORM FLOOR, A TELESCOPING SAFETY POST WOULD NOT BE REQUIRED.

TYPICAL SHIPS LADDER SECTION
NOT TO SCALE

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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.
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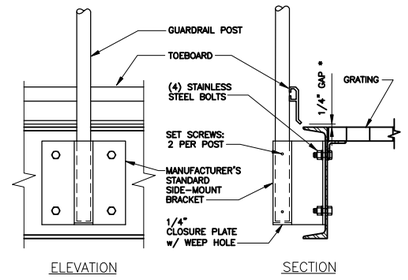
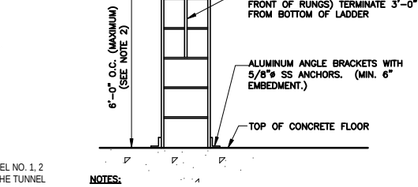
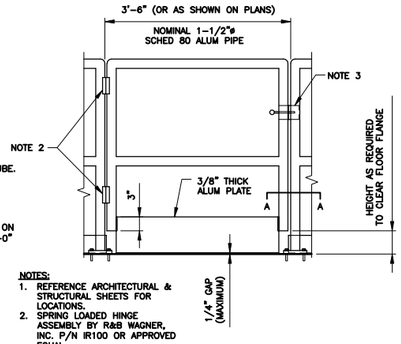


GUARDRAIL SIDE MOUNT TO CHANNEL
NOT TO SCALE
(REFERENCE SECTION 05520)
* INCREASE GAP TO 1 INCH AT GUARDRAILS LOCATED WITHIN (DOWN INSIDE) THE CHAMBERS



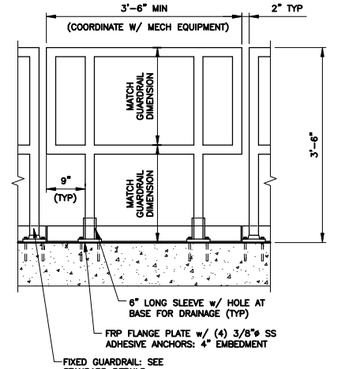
NOTES:
1. REFERENCE SECTION 05500 FOR LADDER REQUIREMENTS
2. FOR LADDERS LESS THAN 12 FEET IN LENGTH. BRACKETS SHALL BE SPACED AT 4'-0" OC (MAXIMUM).

ALUMINUM LADDER DETAIL
NOT TO SCALE

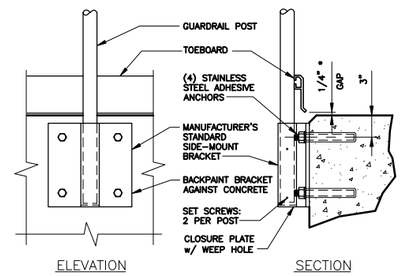


NOTES:
1. REFERENCE ARCHITECTURAL & STRUCTURAL SHEETS FOR LOCATIONS.
2. SPRING LOADED HINGE ASSEMBLY BY R&B WAGNER, INC. P/N IR100 OR APPROVED EQUAL
3. SELF-LOCKING GATE LATCH SHALL BE EQUAL TO LILSARND COMMERCIAL LOKK LATCH PRO 1 SELF LOCKING COMPLETE WITH 6-PIN RE-KEYABLE LOCK. PROVIDE (2) UNCUT SPARE KEY BLANKS FOR RE-KEYING.
4. WHERE DOUBLE GATES ARE SHOWN, PROVIDE DROP ROD W/ 4" SQUARE x 1/4" FLAT ALUMINUM BOTTOM PLATE ON ONE GATE.

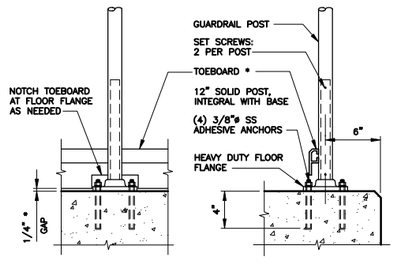
TYPICAL SWING GATE DETAIL
NOT TO SCALE



REMOVABLE GUARDRAIL DETAIL
NOT TO SCALE
(REFERENCE SECTION 05520)



GUARDRAIL SIDE MOUNT TO CONCRETE
NOT TO SCALE
(REFERENCE SECTION 05520)
* INCREASE GAP TO 1 INCH AT GUARDRAILS LOCATED WITHIN (DOWN INSIDE) THE CHAMBERS



GUARDRAIL TOP MOUNT ON CONCRETE
NOT TO SCALE
(REFERENCE SECTION 05520)
* INCREASE GAP TO 1 INCH AT GUARDRAILS LOCATED WITHIN (DOWN INSIDE) THE CHAMBERS

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:

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Checked by BTM

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CLINTON CSO STORAGE FACILITY PROJECT

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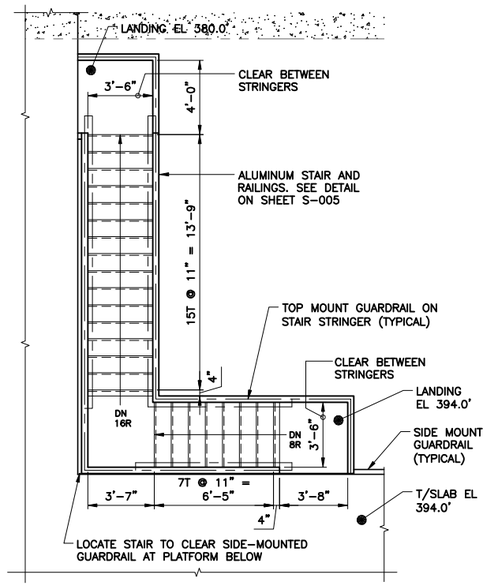
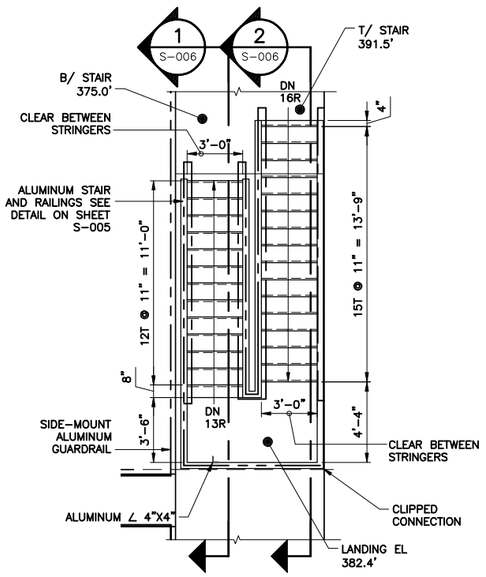
File Number 00663
Date 04/11

S-005



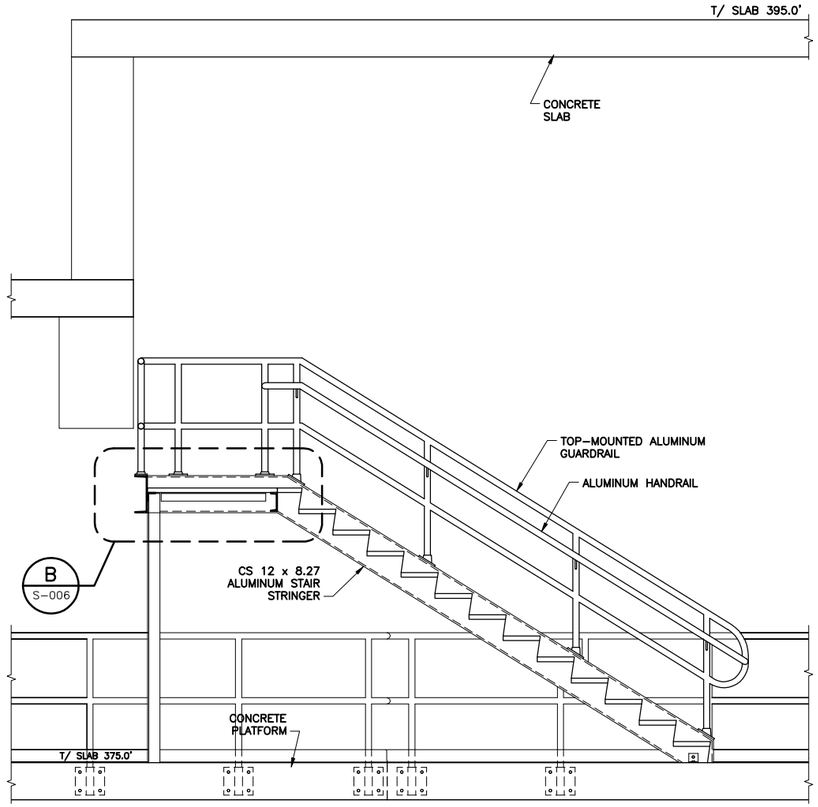
STAIR AT WEST FACILITY GRIT ROOM

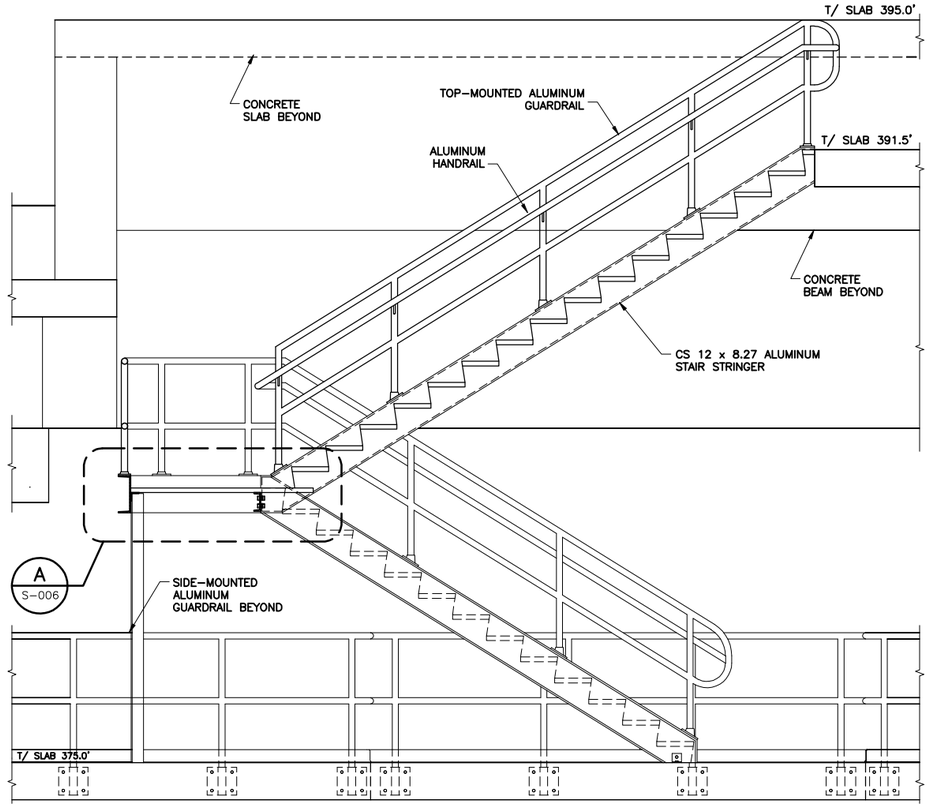
SCALE: 1/4"=1'-0"



STAIR AT EAST FACILITY INFLUENT CHAMBER NO 1

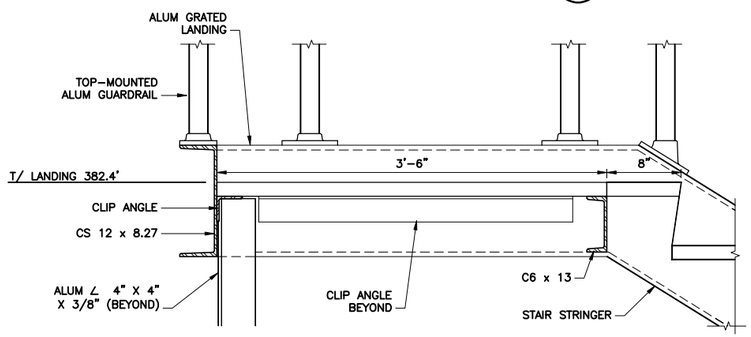
SCALE: 1/4"=1'-0"





SECTION THRU STAIR 1 S-006

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

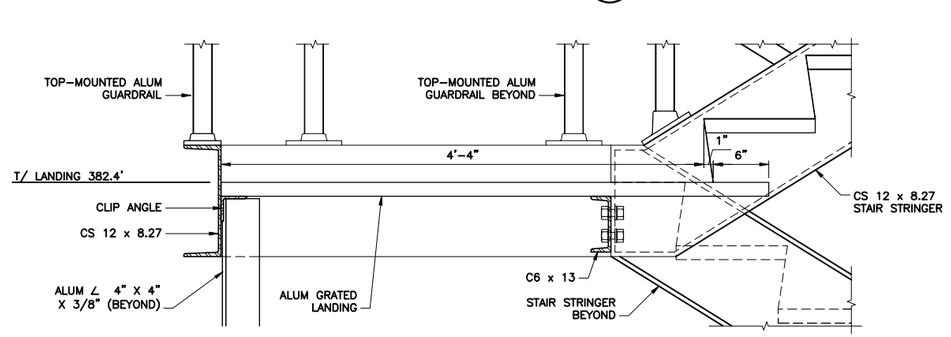


SECTION THRU LANDING B S-006

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

SECTION THRU STAIR 2 S-006

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



SECTION THRU LANDING A S-006

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

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L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

1/2"=1'-0" 1 0 1 2 3 4 5

SCALE:
1/4"=1'-0" 2 0 2 4 6 8 10

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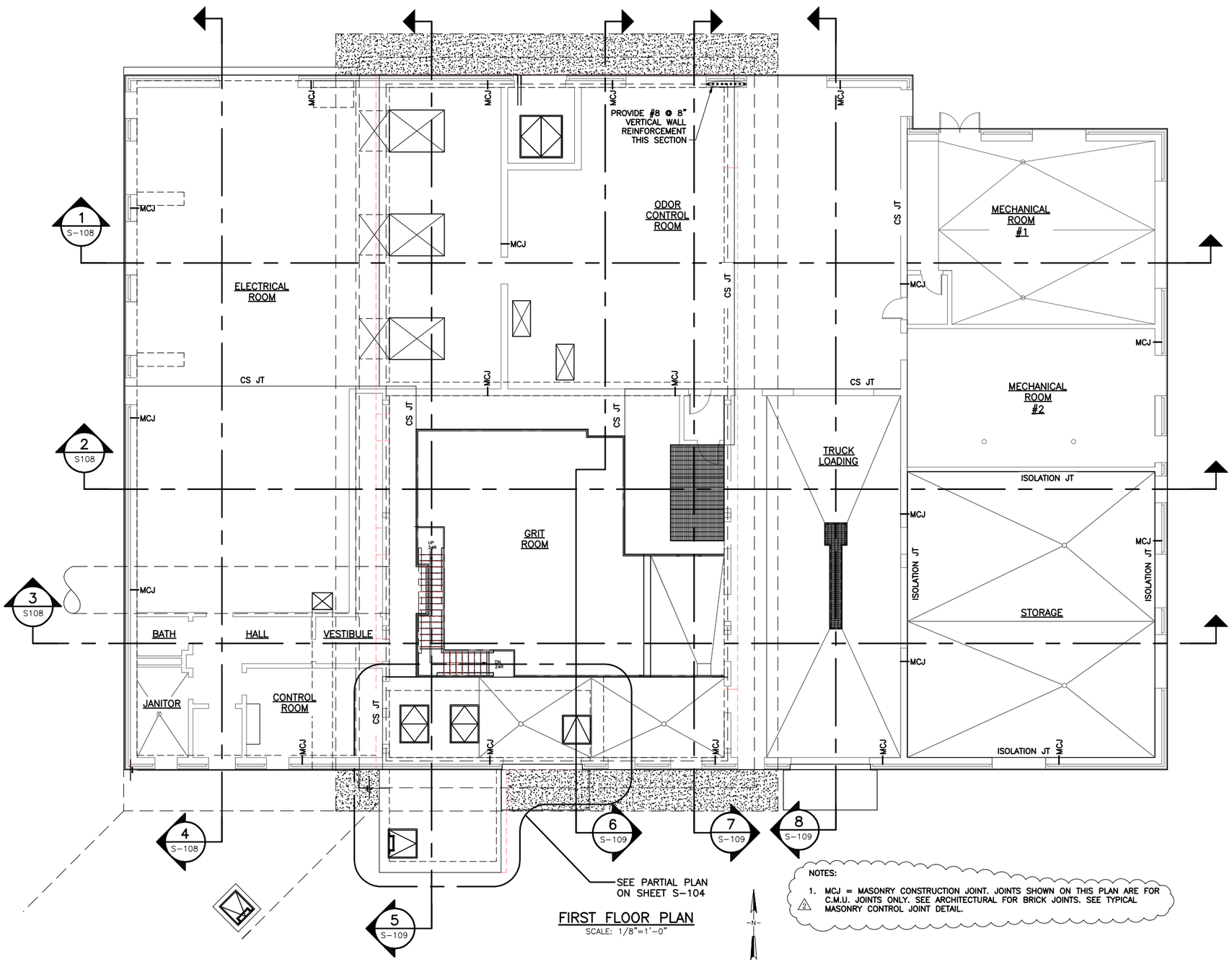

FIRST FLOOR PLAN

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

NOTES:

1. MCJ = MASONRY CONSTRUCTION JOINT. JOINTS SHOWN ON THIS PLAN ARE FOR C.M.U. JOINTS ONLY. SEE ARCHITECTURAL FOR BRICK JOINTS. SEE TYPICAL MASONRY CONTROL JOINT DETAIL.

FO 32
A CONSTRUCTION JOINT IS NEEDED IN THE WEST CHAMBER SLAB BY THE TRUCK LOADING BAY.

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

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

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CLINTON STORAGE FACILITY
OVERALL PLAN
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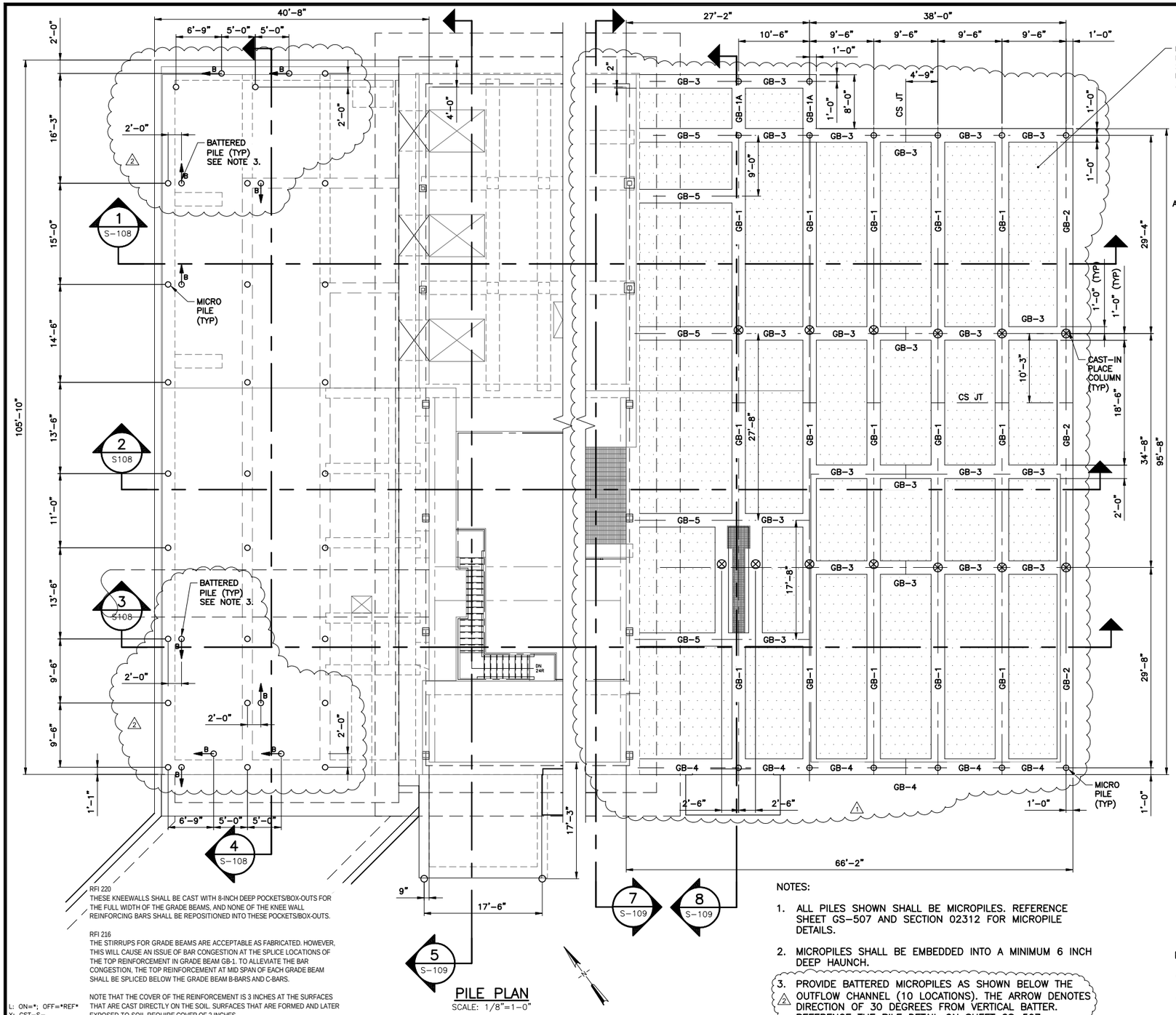
File Number 00663
Date 04/11

S-101



RFI 220
THESE KNEEWALLS SHALL BE CAST WITH 8-INCH DEEP POCKETS/BOX-OUTS FOR THE FULL WIDTH OF THE GRADE BEAMS, AND NONE OF THE KNEE WALL REINFORCING BARS SHALL BE REPOSITIONED INTO THESE POCKETS/BOX-OUTS.

RFI 216
THE STIRRUPS FOR GRADE BEAMS ARE ACCEPTABLE AS FABRICATED. HOWEVER, THIS WILL CAUSE AN ISSUE OF BAR CONGESTION AT THE SPLICE LOCATIONS OF THE TOP REINFORCEMENT IN GRADE BEAM GB-1. TO ALLEVIATE THE BAR CONGESTION, THE TOP REINFORCEMENT AT MID SPAN OF EACH GRADE BEAM SHALL BE SPLICED BELOW THE GRADE BEAM B-BARS AND C-BARS.

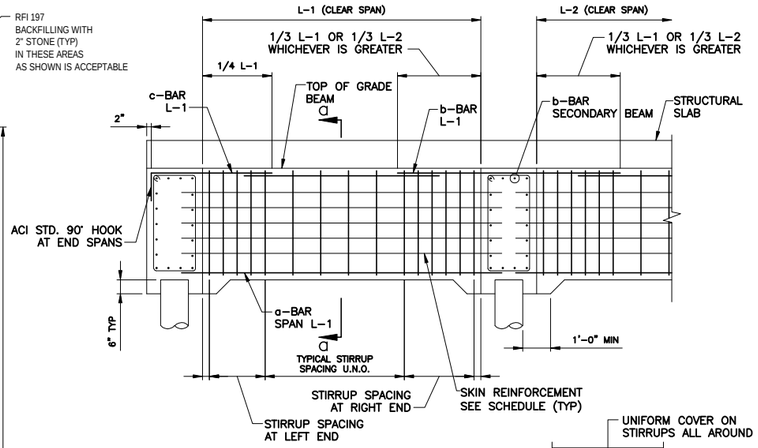
NOTE THAT THE COVER OF THE REINFORCEMENT IS 3 INCHES AT THE SURFACES THAT ARE CAST DIRECTLY ON THE SOIL. SURFACES THAT ARE FORMED AND LATER EXPOSED TO SOIL REQUIRE COVER OF 2 INCHES.

L: ON=*; OFF=*REF*
X: CST-S-
MO/DA/YR CO DFT
DIR/DWG

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

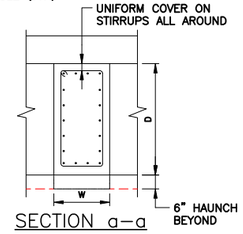
NOTES:

1. ALL PILES SHOWN SHALL BE MICROPILES. REFERENCE SHEET GS-507 AND SECTION 02312 FOR MICROPILE DETAILS.
2. MICROPILES SHALL BE EMBEDDED INTO A MINIMUM 6 INCH DEEP HAUNCH.
3. PROVIDE BATTERED MICROPILES AS SHOWN BELOW THE OUTFLOW CHANNEL (10 LOCATIONS). THE ARROW DENOTES DIRECTION OF 30 DEGREES FROM VERTICAL BATTER. REFERENCE THE PILE DETAIL ON SHEET GS-507.



NOTES:

1. POSITION OF BARS AS SHOWN IS SCHEMATIC. TOP BARS SHALL BE PLACED IN ONE PLANE UNLESS NOTE 2 APPLIES.
2. PLACE BARS IN LAYERS (PROVIDE 3" CLEARANCE BETWEEN LAYERS) WHERE NECESSARY ACCORDING TO ACI CHAPTER 7.
3. PROVIDE 2" COVER ON STIRRUPS WHERE BEAM IS EXPOSED TO WEATHER OR BEAM IS IN A WET ENVIRONMENT. PROVIDE 1 1/2" COVER ON STIRRUPS FOR ALL OTHER CONDITIONS.



SECTION a-a

TYP CONCRETE BEAM DETAILS
NOT TO SCALE

GRADE BEAM SCHEDULE

BEAM MARK	BEAM SIZE		BEAM TYPE	MAIN REINFORCEMENT			STIRRUPS & SPACING (SEE NOTE 2)			REMARKS
	W	D		a	b	c	LEFT END	TYPICAL STIRRUPS	RIGHT END	
GB-1	24	42	P	(6) #9	(6) #9	(3) #9	(15) #4 @ 5"	#4 @ 18"	(15) #4 @ 5"	
GB-1A	24	42	P	(6) #9	(6) #9	(3) #9		1 #4 @ 7"		
GB-2	28	42	P	(7) #6	(7) #6	(3) #6	(7) #4 @ 7"	#4 @ 16"	(7) #4 @ 7"	
GB-3	24	42	S	(4) #9	(4) #9	(2) #9		#4 @ 18"		
GB-4	28	42	S	(4) #9	(4) #9	(2) #9		#4 @ 16"		
GB-5	24	24	P	(3) #9	(4) #9	(2) #9		#4 @ 10"		

NOTES:

1. DETAIL ALL BARS AS SHOWN ON THE BEAM BAR PLACING DIAGRAM.
2. INSTALL "TYPICAL" STIRRUPS THROUGHOUT ENTIRE LENGTH OF BEAM IF STIRRUP SPACING IS NOT INDICATED FOR LEFT END AND/OR RIGHT END.
3. BEAM TYPE INDICATES (P) PRIMARY OR (S) SECONDARY. NOTE THAT TOP REINFORCEMENT IN SECONDARY BEAMS SHALL BE LOCATED BELOW TOP REINFORCING IN PRIMARY BEAMS.
4. AT ALL GRADE BEAMS, PROVIDE ADDITIONAL (5) #3 SKIN REINFORCEMENT SPACED AT 6" MAX EACH SIDE.

KEY:

⊗ – DENOTES CAST-IN-PLACE COLUMN.

○ – DENOTES AUGER-CAST PILE.

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RECORD DRAWING

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DATE: 05/16 PER: RCF

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

8 4 0 8 16

1/8"=1'-0"

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CLINTON STORAGE FACILITY
PILE PLAN
STRUCTURAL

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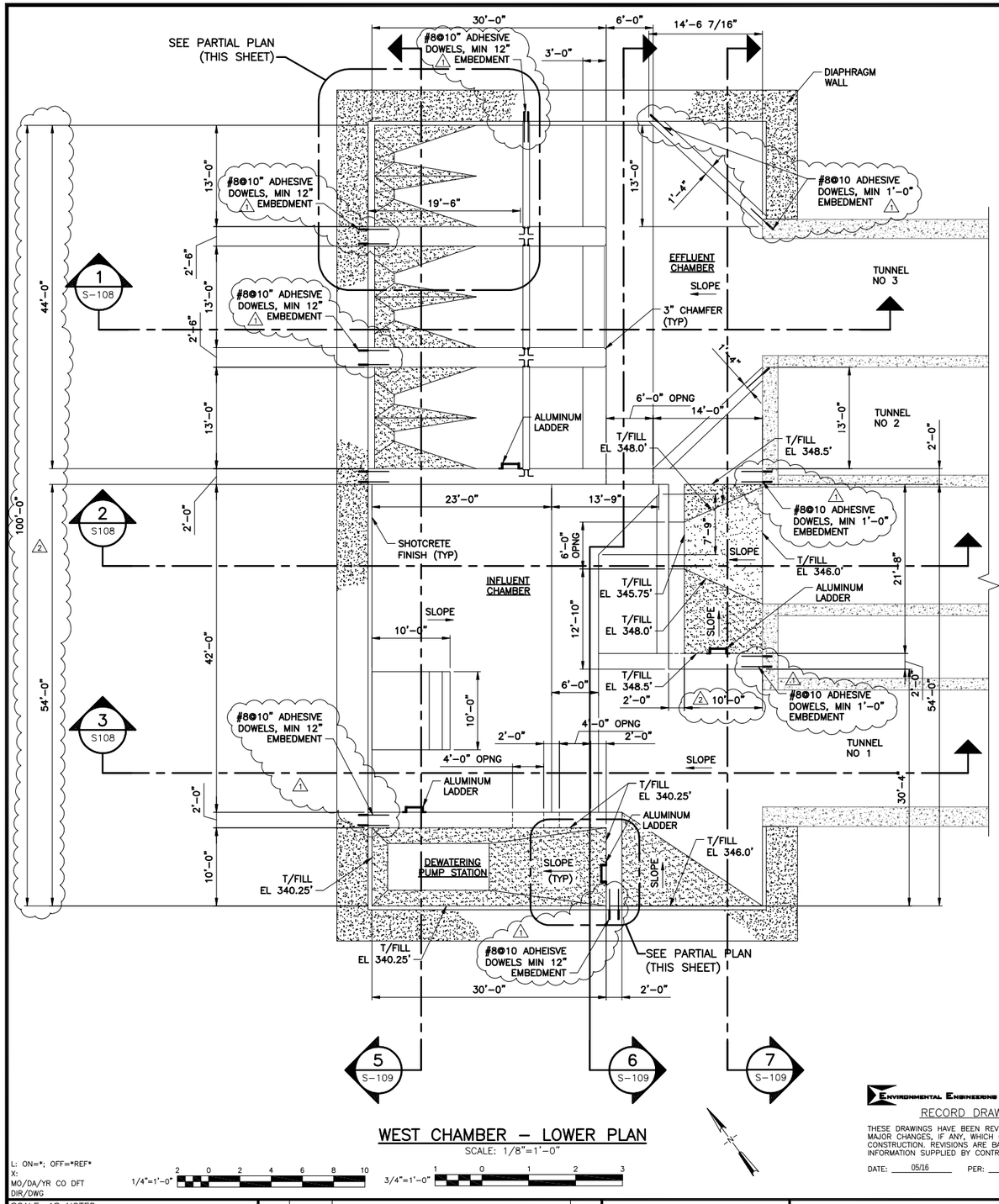
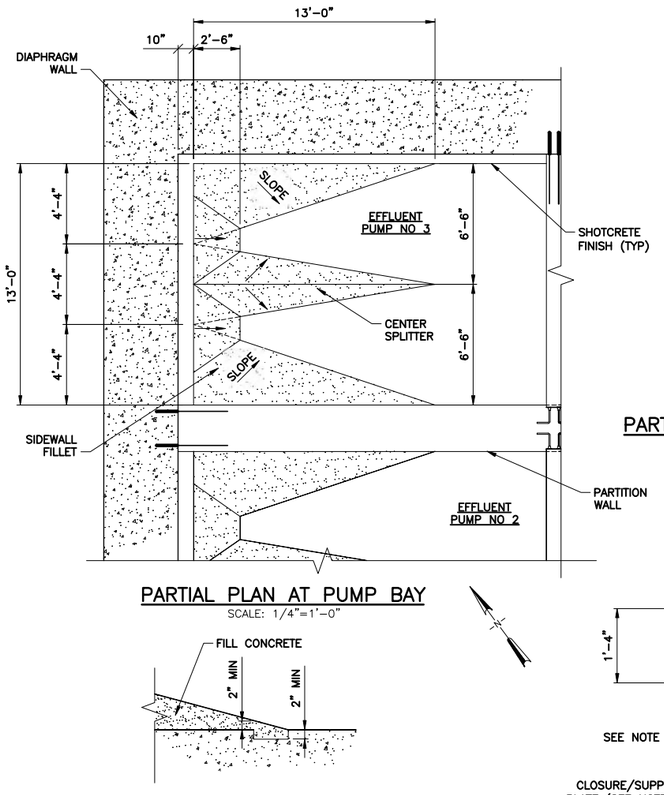
File Number 00663
Date 04/11

S-102



WEST CHAMBER – LOWER PLAN

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



PARTIAL PLAN AT PUMP BAY

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

TYPICAL POCKET @ CONCRETE FILL

SCALE: N.T.S.

RFI 213
IT WOULD BE ACCEPTABLE TO CAST-IN (AND LATER FILLED-IN) THE TWELVE (12) PROPOSED 4-INCH DIAMETER PVC SLEEVES AS INDICATED ON THE ATTACHED SKETCH. HOWEVER, THE CONTRACTOR SHALL TAKE NOTE THAT INSERTION OF THESE SLEEVES COULD PROMOTE SHRINKAGE CRACKING OF THE KNEE WALL AT THESE SLEEVE LOCATIONS.

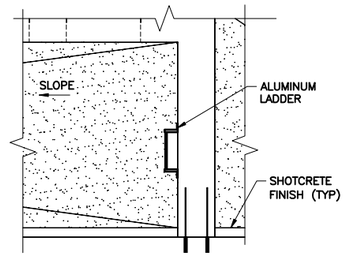
RFI 188
AT TUNNEL NO. 2 WEST END WEIR WALL, IT WOULD BE ACCEPTABLE TO DRIL AND CHEMICAL GROUT ADDITIONAL #* DOWELS TO RECTIFY THE IN PLACE DOWEL SPACING FROM 12 INCHES TO TEN INCHES ON CENTER. NOTE THAT THESE DOWELS SHALL BE A MINIMUM 2'-6" LONG WITH MINIMUM 6 INCH EMBEDMENT.

RFI 214
IN REGARDS TO THE PLACEMENT OF THE #8 BAR EACH FACE AT THE BOTTOM OF THE WALL UNDER THE SLUICE GATE THIMBLE. IN CONTRAST TO THE RFI REQUEST TO ONLY INSTALL (1) #8 BAR, IT WAS DETERMINED THAT THE THIMBLE WAS GROUTED IN PLACE PRIOR TO INSTALLATION OF THE REINFORCEMENT UNDER THE THIMBLE. THIS CONDITION IS ACCEPTABLE. HOWEVER, THIS HAS NOW CREATED A COLD JOINT BETWEEN THE GROUT AND THE WALL CONCRETE. THIS JOINT SHALL HAVE BENTONITE WATERSTOP INSTALLED. THE WATERSTOP SHALL LAP THE PVC WATERSTOP IN THE INVERT SLAB BY A MINIMUM OF 3 INCHES, EXTEND UP THE COLD JOINT, AND LAP THE THIMBLE WATERSTOP (INTERNAL CONTINUOUS RIB OF THE TYPE "E" THIMBLE) BY A MINIMUM OF 3 INCHES.

IN REGARDS TO THE MISS ALIGNMENT OF DOWELS IN THE TUNNEL WALL. IT IS ACCEPTABLE THAT THE DOWELS INSTALLED IN THE TUNNEL WALL DO NOT ALIGN WITH THE INFLUENT WALL HORIZONTAL REINFORCEMENT.

RFI 230
THE CONTRACTOR SHALL NOTE THAT THE #8 @ 10" ADHESIVE DOWELS ARE ONLY INDICATED TO BE INSTALLED INTO THE SLURRY (DIAPHRAGM) WALLS ON CONTRACT DRAWINGS S-103. THERE ARE NO DOWELS INDICATED WHERE THE FILLET WALL ADJOINS THE CAST-IN-PLACE EAST-WEST DIVIDING WALL SINCE THE WALL REINFORCEMENT OF CAST-IN-PLACE FILLET WALL WOULD TIE INTO THE WALL REINFORCEMENT IF THE DIVIDING WALL IN ACCORDANCE WITH THE CAST-IN-PLACE WALL INTERSECTION REINFORCEMENT DETAIL ON CONTRACT DRAWING S-002.

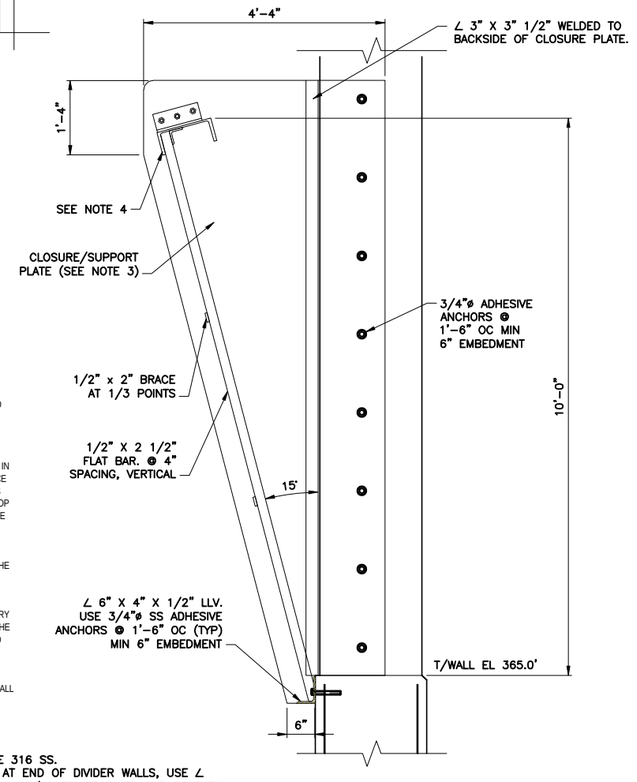
DURING THE SUBMITTAL REVIEW, WE ALLOWED THE #8 @ 10" ADHESIVE DOWELS BE UTILIZED IN LIEU OF THE CAST-IN-PLACE WALL INTERSECTION REINFORCEMENT.



PARTIAL PLAN AT DEWATERING PUMP STATION

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

RFI 280
THE USE OF THE PROPOSED STAGGERED INTERMITTENT WELD IS ACCEPTABLE.



TRASH RACK NOTES:
1. ALL MATERIAL SHALL BE ALUMINUM, UNO.
2. ALL BOLTS, FASTENERS AND ANCHORS SHALL BE TYPE 316 SS.
3. USE 3/8" PLATE FOR SUPPORT AND CLOSURE PLATE AT END OF DIVIDER WALLS, USE ∠ 3/" X 3" X 3/8" ANGLES FULL HEIGHT WELD TO CLOSURE/ SUPPORT PLATE AND BOLT TO COLUMN/WALLS WITH 3/4"ø SS ADHESIVE ANCHORS MIN 6" EMBEDMENT.
4. USE CS12X11.8 CONTIGUOUS, WELDED AT EACH VERTICAL BAR; USE ∠ 4"X4"X1/2" BOLTED TO CS12 W/ 3/4"ø SS BOLTS, BOLTED TO CLOSEURE/SUPPORT PLATES AND CONCRETE WALLS. FIELD LOCATE AND DRILL HOLES IN CLOSURE/SUPPORT PLATE. WELD CONTINUOUS ∠ 3"X3"X 3/8" KEEPER TO CS12 AND VERTICAL BARS TO PROVIDE ADDITIONAL SUPPORT.

TRASH RACK DETAIL

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

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RECORD DRAWING

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

1/4"=1'-0" 2 0 2 4 6 8 10

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

SCALE: AS NOTED

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

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Drawn by MJL
Checked by BTM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

WEST CHAMBER LOWER PLAN

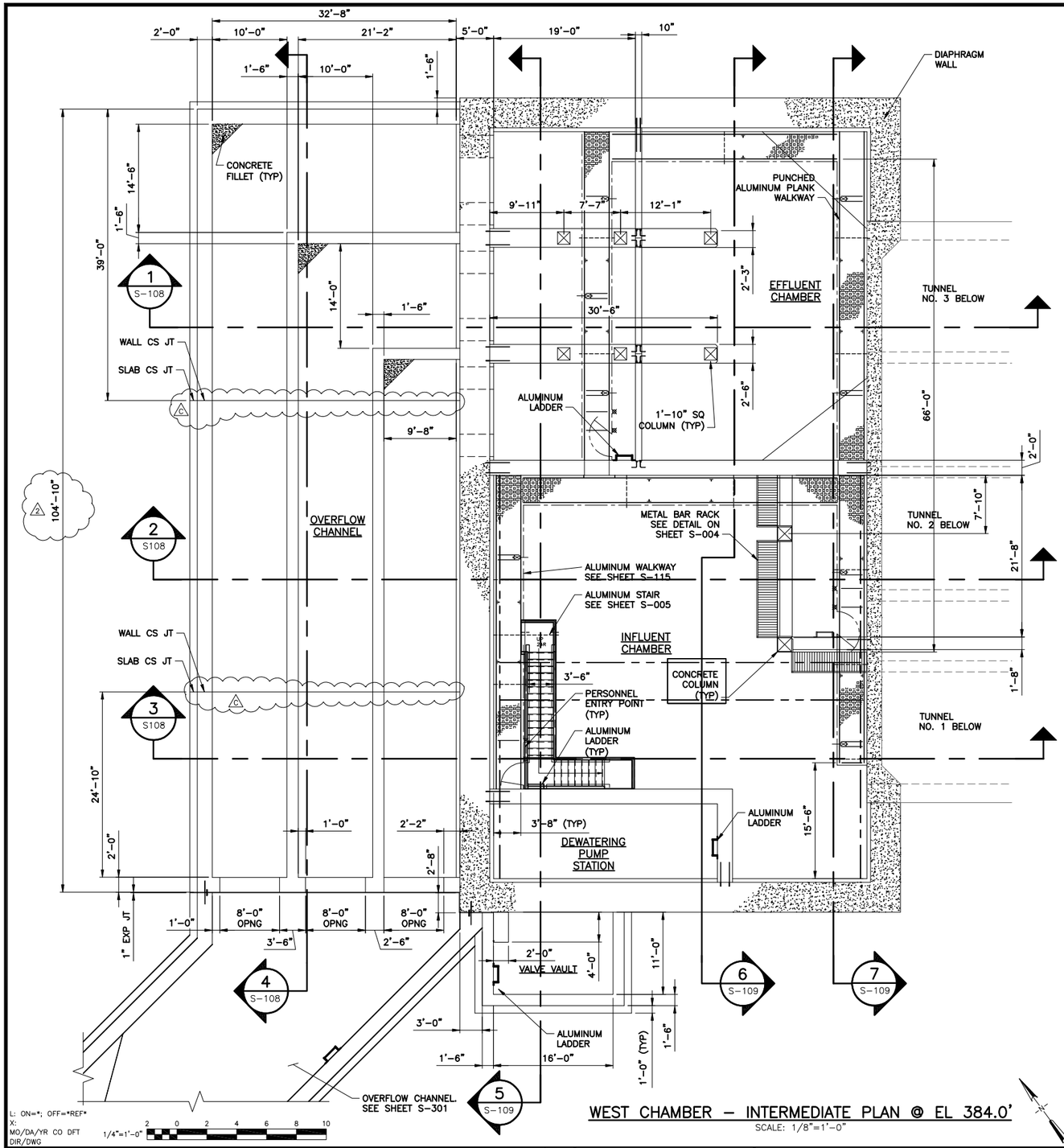
STRUCTURAL

STATE OF NEW YORK · GERALD C. HOOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663

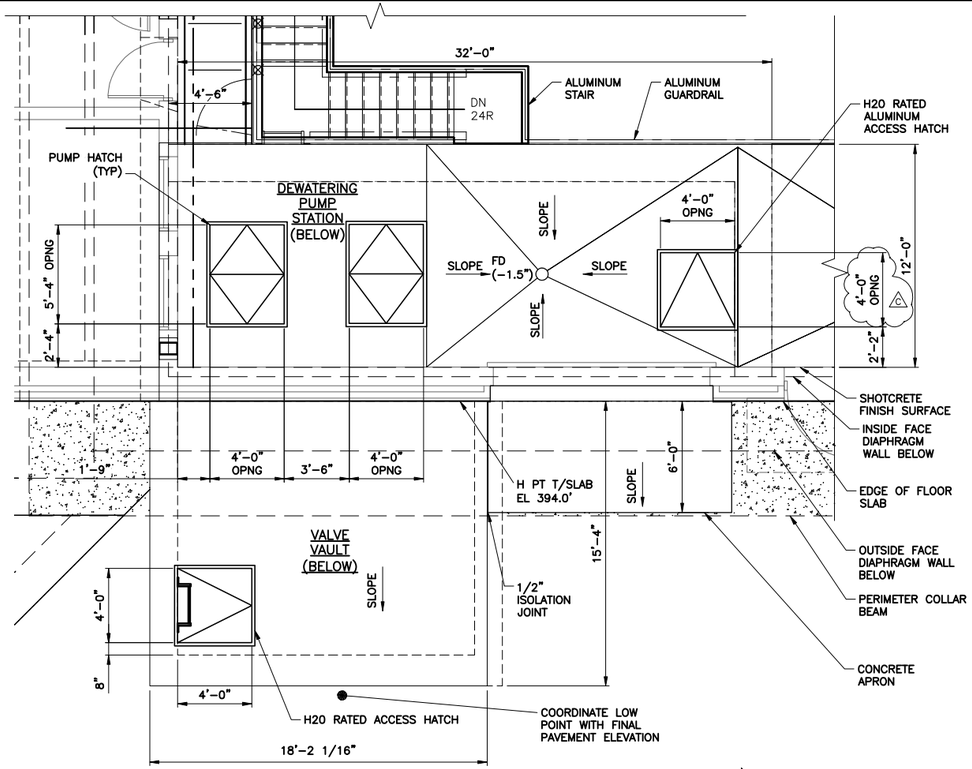
Date 04/11

S-103



WEST CHAMBER – INTERMEDIATE PLAN @ EL 384.0'

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



WEST CHAMBER – PARTIAL PLAN @ EL 396.0'

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

FO 27
THE FILLETS IN THE CORNERS OF THE OVERFLOW CHANNEL AS SHOWN ON S-104 SHOULD HAVE SIDE LENGTHS OF 4'-0"x4'-0". THE FACE SHOULD SLOPE UP FROM THE INVERT AT A 45 DEGREE ANGLE. THIS FILLET SHOULD BE KEYED IN PER "TYPICAL POCKET @ CONCRETE FILL" DETAIL ON S-103. THE FILLET SHOULD HAVE #4'S EW ON THE FACE THAT ARE DOWELED INTO THE WALL.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

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MO/DA/YR CO DFT
DIR/DWG

1/4"=1'-0" 2 0 2 4 6 8 10

SCALE: AS NOTED

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

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SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

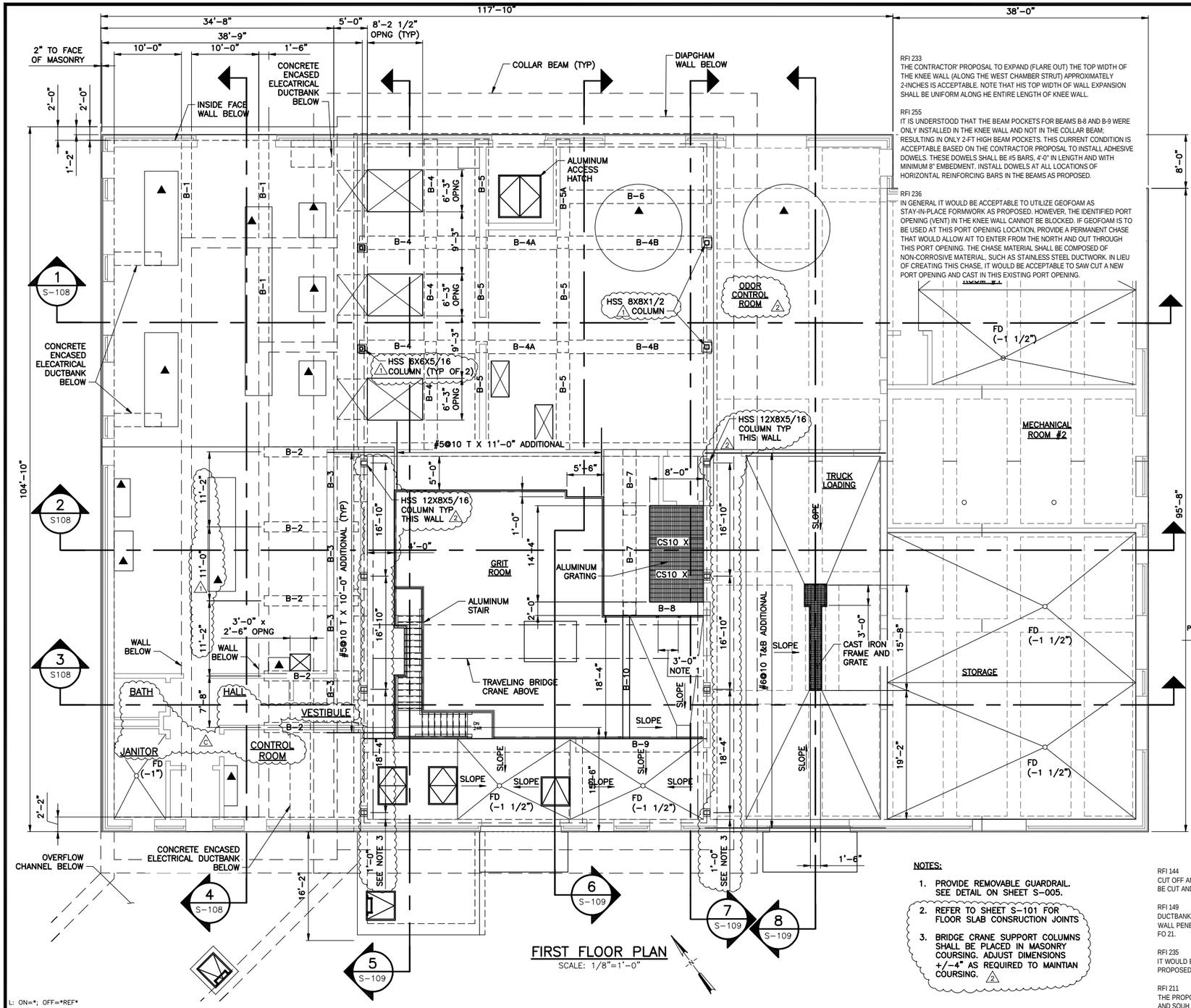
WEST CHAMBER INTERMEDIATE PLAN

STRUCTURAL

STATE OF NEW YORK · GERALD C. HOOK · No. 52904 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

S-104



FIRST FLOOR PLAN

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

RFI 233
THE CONTRACTOR' PROPOSAL TO EXPAND (FLARE OUT) THE TOP WIDTH OF THE KNEE WALL (ALONG THE WEST CHAMBER STRUT) APPROXIMATELY 2-INCHES IS ACCEPTABLE. NOTE THAT HIS TOP WIDTH OF WALL EXPANSION SHALL BE UNIFORM ALONG HE ENTIRE LENGTH OF KNEE WALL.

RFI 255
IT IS UNDERSTOOD THAT THE BEAM POCKETS FOR BEAMS B-8 AND B-9 WERE ONLY INSTALLED IN THE KNEE WALL AND NOT IN THE COLLAR BEAM; RESULTING IN ONLY 2-FT HIGH BEAM POCKETS. THIS CURRENT CONDITION IS ACCEPTABLE BASED ON THE CONTRACTOR PROPOSAL TO INSTALL ADHESIVE DOWELS. THESE DOWELS SHALL BE #5 BARS, 4'-0" IN LENGTH AND WITH MINIMUM 8" EMBEDMENT. INSTALL DOWELS AT ALL LOCATIONS OF HORIZONTAL REINFORCING BARS IN THE BEAMS AS PROPOSED.

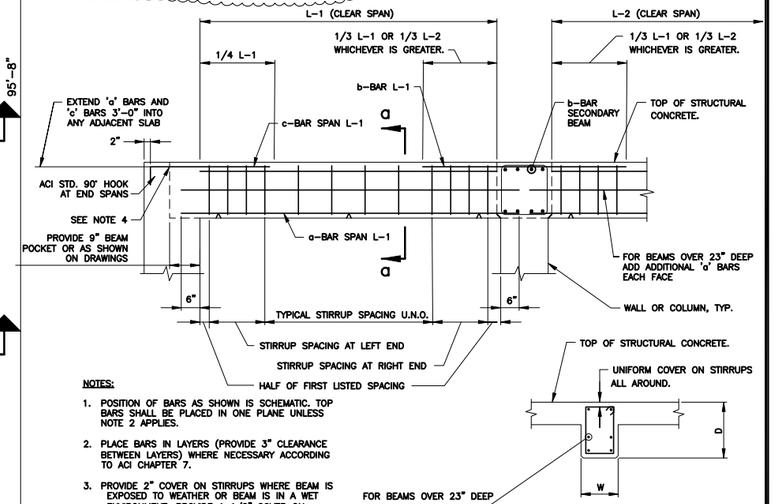
RFI 236
IN GENERAL IT WOULD BE ACCEPTABLE TO UTILIZE GEOFOAM AS STAY-IN-PLACE FORMWORK AS PROPOSED. HOWEVER, THE IDENTIFIED PORT OPENING (VENT) IN THE KNEE WALL CANNOT BE BLOCKED. IF GEOFOAM IS TO BE USED AT THIS PORT OPENING LOCATION, PROVIDE A PERMANENT CHASE THAT WOULD ALLOW AIT TO ENTER FROM THE NORTH AND OUT THROUGH THIS PORT OPENING. THE CHASE MATERIAL SHALL BE COMPOSED OF NON-CORROSIVE MATERIAL, SUCH AS STAINLESS STEEL DUCTWORK. IN LIEU OF CREATING THIS CHASE, IT WOULD BE ACCEPTABLE TO SAW CUT A NEW PORT OPENING AND CAST IN THIS EXISTING PORT OPENING.

NOTES:
1. PROVIDE REMOVABLE GUARDRAIL. SEE DETAIL ON SHEET S-005.
2. REFER TO SHEET S-101 FOR FLOOR SLAB CONSRUCTION JOINTS
3. BRIDGE CRANE SUPPORT COLUMNS SHALL BE PLACED IN MASONRY COURSING. ADJUST DIMENSIONS +/-4" AS REQUIRED TO MAINTIAN COURSING. △2

BEAM SCHEDULE

BEAM MARK	BEAM SIZE		BEAM TYPE	MAIN REINFORCEMENT			STIRRUPS & SPACING (SEE NOTE 2)			REMARKS
	W	D	P or S	a	b	c	LEFT END	TYPICAL STIRRUPS	RIGHT END	
B-1	18	24	P	(4) #9	(4) #9	(2) #9		#4 @ 10"		-
B-2	18	24	P	(5) #9		(2) #9		#4 @ 10"	(8) #4 @ 6"	
B-3	12	24	S	(3) #6	(3) #6	(2) #6	(3) #3 @ 8"	#3 @ 10"	(3) #3 @ 8"	
B-4	24	36	P	(6) #9	(6) #9	(3) #9		#4 @ 16"		
B-4A	24	36	P	(6) #9	(6) #9	(3) #9	(5) #4 @ 6"	#4 @ 16"	(5) #4 @ 6"	
B-4B	24	36	P	(6) #9	(6) #9	(3) #9	(12) #4 @ 6"	#4 @ 16"	(12) #4 @ 6"	
B-5	24	36	S	(5) #9	(5) #9	(2) #9	(4) #4 @ 8"	#4 @ 16"	(4) #4 @ 8"	
B-5A	24	36	S	(5) #9	(5) #9	(2) #9	(9) #4 @ 8"	#4 @ 16"	(4) #4 @ 8"	
B-6	24	36	P	(7) #9		(3) #9	-	-	-	
B-7	△1 18	24	P	(6) #6	(4) #6	(2) #6	-	-	-	
B-8	24	72	P	(6) #6	(6) #6	-	-	#4 @ 12	-	'b' BARS TO RUN CONTINUOUS
B-9	18	60	P	(4) #8	(4) #8	-	-	#4 @ 12	-	'b' BARS TO RUN CONTINUOUS
B-10	12	66	S	(3) #6	(3) #6	-	-	#4 @ 12	-	'b' BARS TO RUN CONTINUOUS

NOTES:
1. DETAIL ALL BARS AS SHOWN ON THE BEAM BAR PLACING DIAGRAM.
2. INSTALL "TYPICAL" STIRRUPS THROUGHOUT ENTIRE LENGTH OF BEAM IF STIRRUP SPACING IS NOT INDICATED FOR LEFT END AND/OR RIGHT END.
3. BEAM TYPE INDICATES (P) PRIMARY BEAM OR (S) SECONDARY BEAM. NOTE THAT TOP REINFORCEMENT IN SECONDARY BEAMS SHALL BE LOCATED BELOW TOP REINFORCING IN PRIMARY BEAMS. △2



NOTES:
1. POSITION OF BARS AS SHOWN IS SCHEMATIC. TOP BARS SHALL BE PLACED IN ONE PLANE UNLESS NOTE 2 APPLIES.
2. PLACE BARS IN LAYERS (PROVIDE 3" CLEARANCE BETWEEN LAYERS) WHERE NECESSARY ACCORDING TO ACI CHAPTER 7.
3. PROVIDE 2" COVER ON STIRRUPS WHERE BEAM IS EXPOSED TO WEATHER OR BEAM IS IN A WET ENVIRONMENT. PROVIDE 1 1/2" COVER ON STIRRUPS FOR ALL OTHER CONDITIONS.
4. CONTRACTOR MAY PROVIDE DOWEL BAR SUBSTITUTES AT BEAM POCKETS.

FOR BEAMS OVER 23" DEEP ADD ADDITIONAL 'a' BARS EACH FACE

SECTION a-a

BEAM BAR PLACING DIAGRAM

NOT TO SCALE

RFI 144
CUT OFF AND REMOVAL OF THE SOLDIER PILES AT EL. 384-F IS ACCEPTABLE. IN ADDITION 5-FT WIDE WINDOWS SHALL BE CUT AND REMOVED TO EL 380-FT AT A MAXIMUM 100 -FT SPACING ALONG EACH SIDE OF HE BOX TUNNEL TRENCH.

RFI 149
DUCTBANKS D-D AND O-O CAN BE INSTALLED WITHOUT THE NEED TO SWEEP TO CONDUITS IMMEDIATELY AFTER THE WALL PENETRATIONS. HOWEVER, DUCTBANK O-O SHALL BE ENCASED WITH A GEOFOAM BLOCK CORE AS INDICAED IN FO 21.

RFI 235
IT WOULD BE ACCEPTABLE TO CAST THE SOUTHEAST DUCTBANK CONCRETE ENCASEMENT IN TWO (2) POURS AS PROPOSED.

RFI 211
THE PROPOSED 1-INCH CHAMFERED EDGE ALONG HE FLOOR SLAB (AS DETAILED) IS ACCEPTABLE ALONG THE NORTH AND SOUH SIDES OF HE BUILDING. THE CONTRACTOR SHALL COORDINATE ANY ADDITIONAL DETAILS THAT MAY NEED TO BE ALTERED AS A RESULT OF THIS EDGE OF FLOOR SLAB AND PRECAST PANEL ALIGNMENT, WHICH IS DIFFERENT FROM WHAT IS INDICATED ON THE ARCHITECTURAL DRAWINGS.

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RECORD DRAWING

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DIR/DWG

SCALE: 1/8" = 1'-0"
1/8"=1'-0" 8 4 0 8 16

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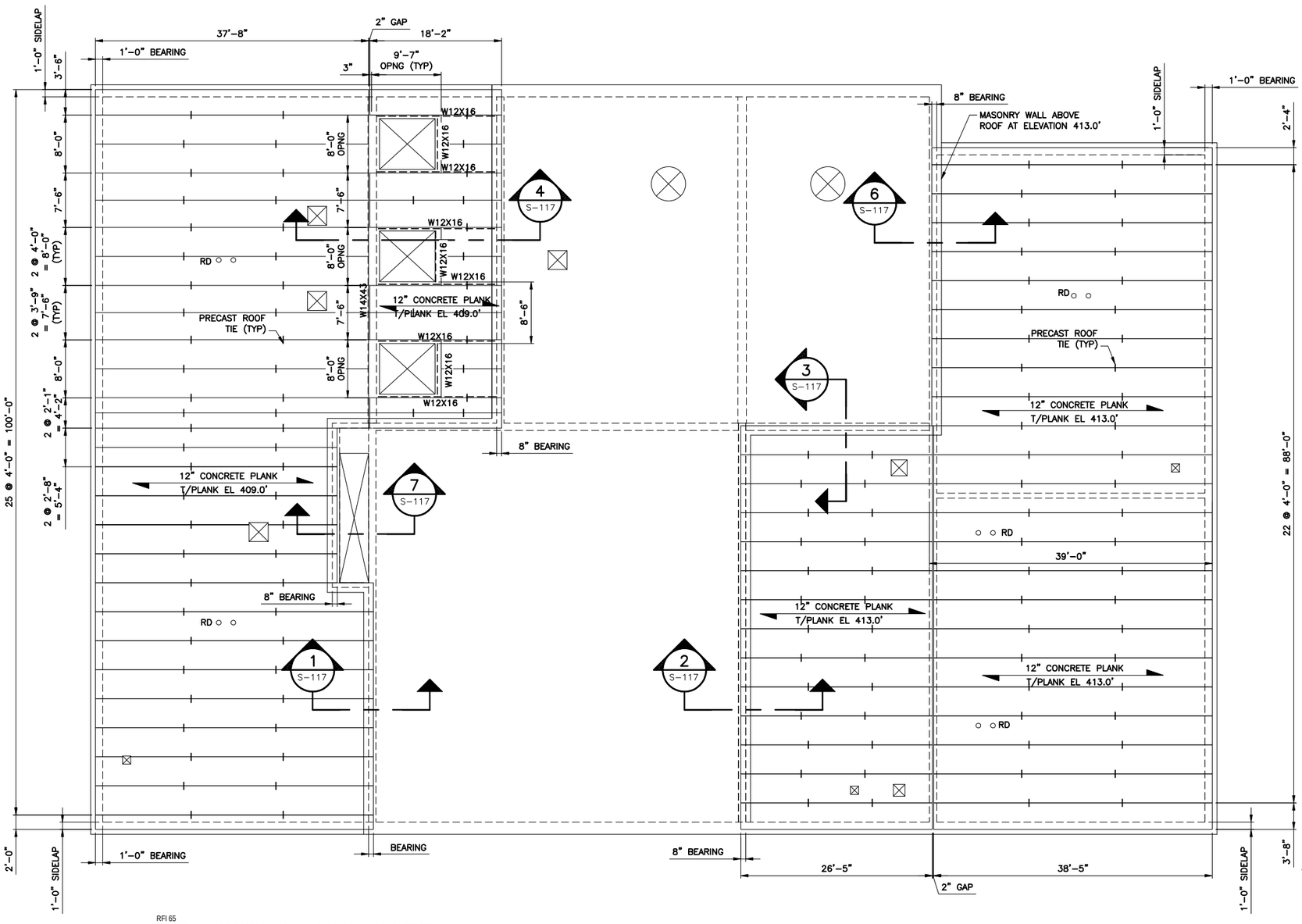
ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

CLINTON STORAGE FACILITY
FIRST FLOOR PLAN
STRUCUTURAL

STATE OF NEW YORK · GERALD C. ROOK · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

S-105



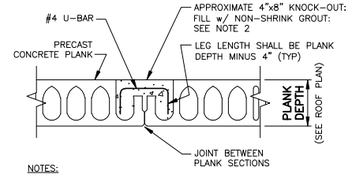
RFI 65
THE DIMENSIONS OF THE ROOF PLAN AS SHOWN ON FIGURE 1 WILL BE MODIFIED PER FIELD ORDER 9.

RFI 249
THE PROPOSED 12-INCH DEEP MASONRY LINTEL IS INADEQUATE FOR THIS 6-FOOT WIDE OPENING. REFER TO FIELD ORDER NO. 41 FOR THE REQUESTED MASONRY LINTEL DETAIL.

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

NOTES:

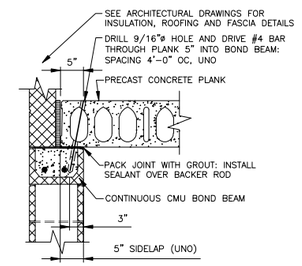
1. CONTRACTOR TO COORDINATE THE SIZE AND LOCATION OF ALL ROOF DRAINS AND PENETRATIONS WITH APPROVED EQUIPMENT SELECTION.



NOTES:

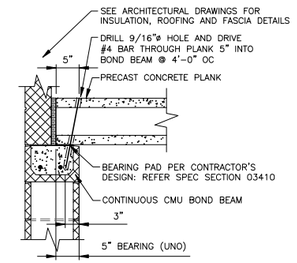
1. LOCATE PLANK TIES THUS, UNO:
   SPANS 20' TO 30' – USE ONE ROW OF TIES AT MID-SPAN.
   SPANS GREATER THAN 30' – 2 ROWS OF TIES AT 1/3 POINTS.
2. BLOCK OFF CORES AS REQUIRED TO PREVENT GROUT LEAKAGE BEYOND TIE AREA.

PRECAST ROOF PLANK TIE
NOT TO SCALE



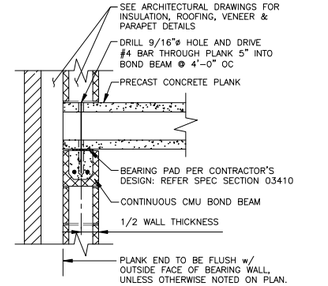
(SIDELAP AT SINGLE-WYTHE CMU WALL)

ROOF PLANK SIDELAP
NOT TO SCALE



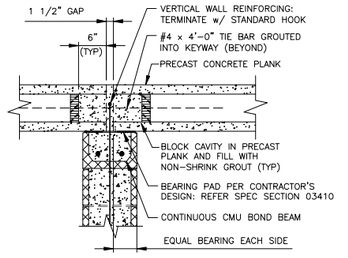
(BEARING ON SINGLE-WYTHE CMU WALL)

ROOF PLANK INTERIOR BEARING
NOT TO SCALE



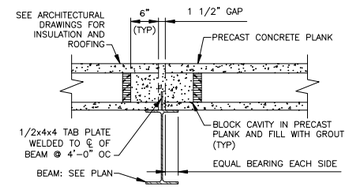
(BEARING AT CMU CAVITY WALL)

ROOF PLANK EXTERIOR BEARING
NOT TO SCALE



(BEARING ON INTERIOR CMU WALL)

ROOF PLANK INTERIOR BEARING
NOT TO SCALE



(BEARING ON INTERIOR BEAM)

ROOF PLANK INTERIOR BEARING
NOT TO SCALE

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1/8"=1'-0" (8 4 0 8 16)

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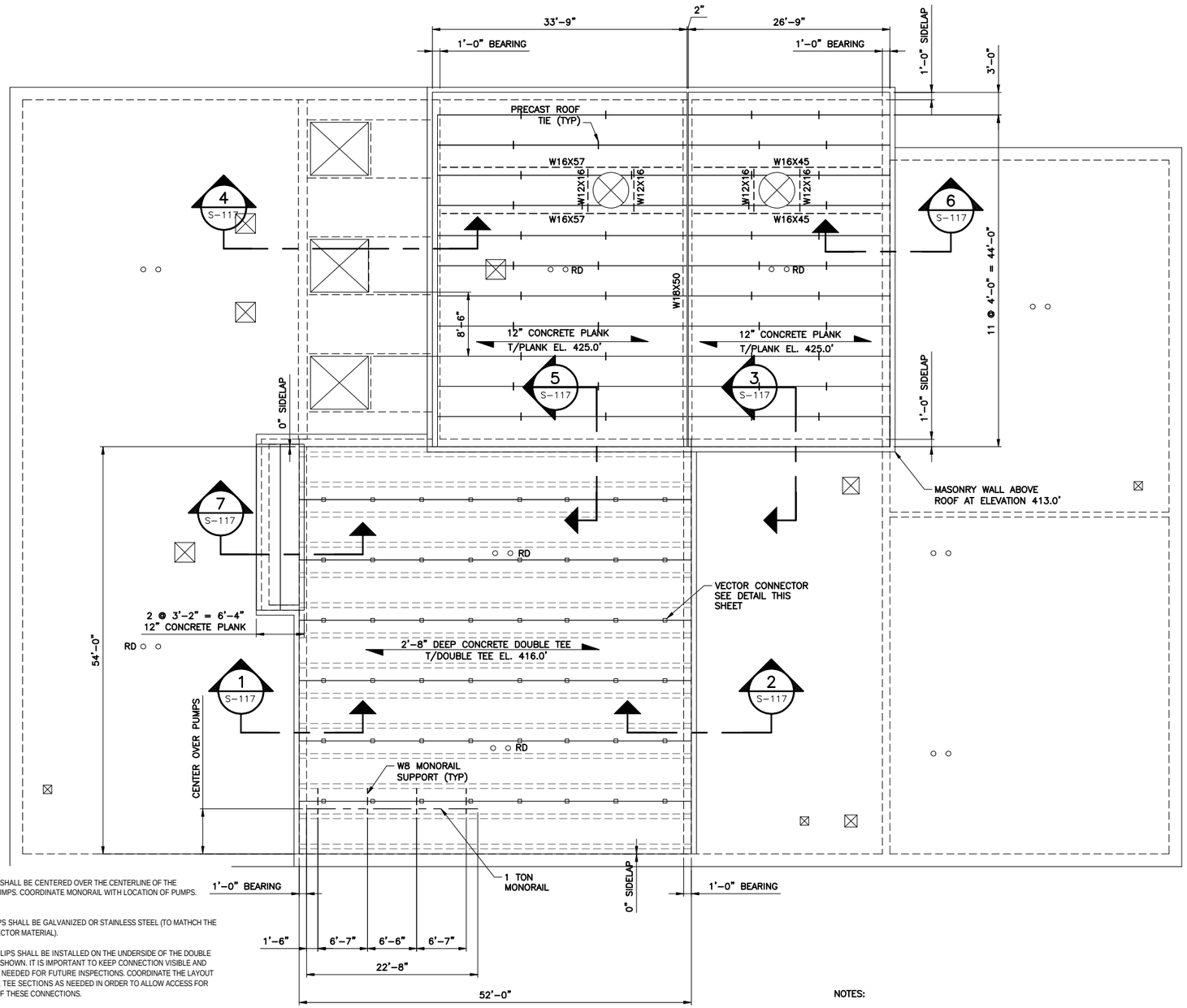
CLINTON CSO STORAGE FACILITY PROJECT

CLINTON STORAGE FACILITY
LOWER ROOF PLAN
STRUCTURAL

STATE OF NEW YORK · GERALD C. HODE · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

S-106



RFI 155
THE MONORAIL SHALL BE CENTERED OVER THE CENTERLINE OF THE DEWATERING PUMPS. COORDINATE MONORAIL WITH LOCATION OF PUMPS.

RFI 166
THE ANGLE CLIPS SHALL BE GALVANIZED OR STAINLESS STEEL (TO MATHCH THE VECTOR CONNECTOR MATERIAL).

THESE ANGLE CLIPS SHALL BE INSTALLED ON THE UNDERSIDE OF THE DOUBLE TEE FLANGE AS SHOWN. IT IS IMPORTANT TO KEEP CONNECTION VISIBLE AND ACCESSIBLE AS NEEDED FOR FUTURE INSPECTIONS. COORDINATE THE LAYOUT OF THE DOUBLE TEE SECTIONS AS NEEDED IN ORDER TO ALLOW ACCESS FOR INSTALLATION OF THESE CONNECTIONS.

THE ANGLE CLIP CONNECTIONS SHALL BE INSTALLED ALONG THE NORTH AND SOUTH WALLS AS INDICATED IN THE CONTRACTOR SKETCH.

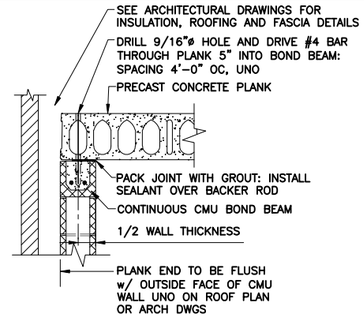
RFI 238
THE CORRECT OVERALL NORTH-SOUTH DIMENSION IS 54'-0". DRAWING A-101, THE PROVIDED 5'-10" DIMENSION ALONG THE EAST WALL OF THE GRIT ROOM SHOULD BE REVISED TO 6'-10". THE OVERALL 56'-0" DIMENSION PROVIDED ON CONTRACT DRAWING S-107 SHOULD BE REVISED TO 54'-0".

L:
X:
MO/DA/YR CO DFT
DIR/DWG

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

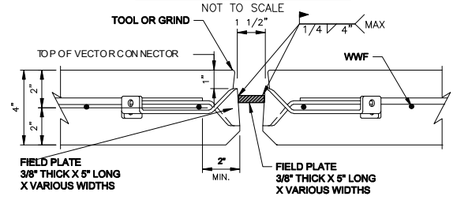
NOTES:

1. CONTRACTOR TO COORDINATE THE SIZE AND LOCATION OF ALL ROOF DRAINS AND PENETRATIONS WITH APPROVED EQUIPMENT SELECTION.



(SIDELAP AT CAVITY WALL)

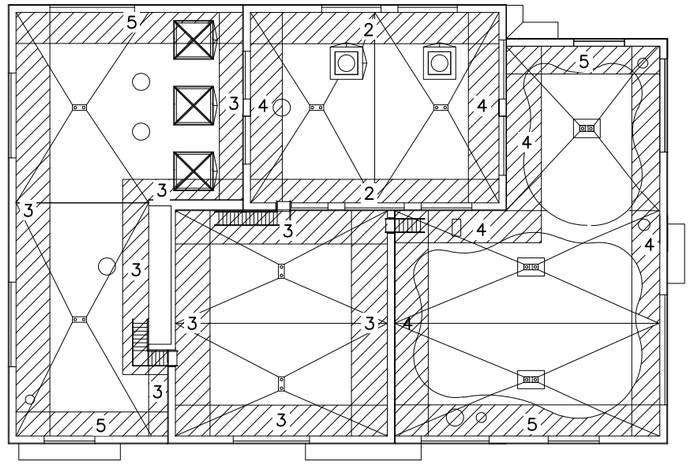
ROOF PLANK SIDELAP
NOT TO SCALE



VECTOR CONNECTOR

NOTES:

1. CENTER WELD FIELD PLATE WITHIN FACEPLATE OF VECTOR CONNECTOR. DO NOT WELD AT CORNERS.
2. DO NOT OVER WELD; 4" MAXIMUM WELD LENGTH.
3. FIELD PLATE TO BE HORIZONTAL.
4. TOP EDGE OF VECTOR CONNECTOR MUST BE CLEAN.
5. LOCATE LONGITUDINAL AND TRANSVERSE WIRE OF WWF MESH SO NOT TO INTERFERE WITH VECTOR CONNECTOR LEG ENDS.
6. USE A304 STAINLESS STEEL VECTOR CONNECTORS, WITH A304 STAINLESS STEEL FIELD PLATES AND USE WELDING ELECTRODE E308.
7. A MINIMUM OF 8 INTERCONNECTIONS SHALL BE AT EDGE OF ADJACENT PRECAST DOUBLE TEES.



DRIFT PLAN KEY		
MARK	MAX DRIFT	DRIFT LENGTH
1	40 PSF	7.6 FT
2	45 PSF	8.5 FT
3	50 PSF	9.7 FT
4	55 PSF	10.0 FT
5	60 PSF	14.0 ft

ROOF SNOW DRIFT PLAN
N.T.S.

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

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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
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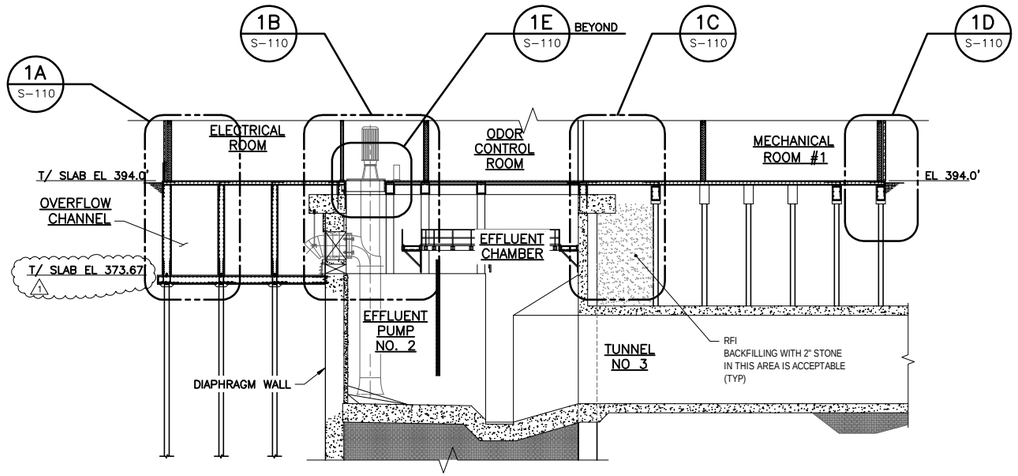
CLINTON STORAGE FACILITY
UPPER ROOF PLAN
STRUCTURAL

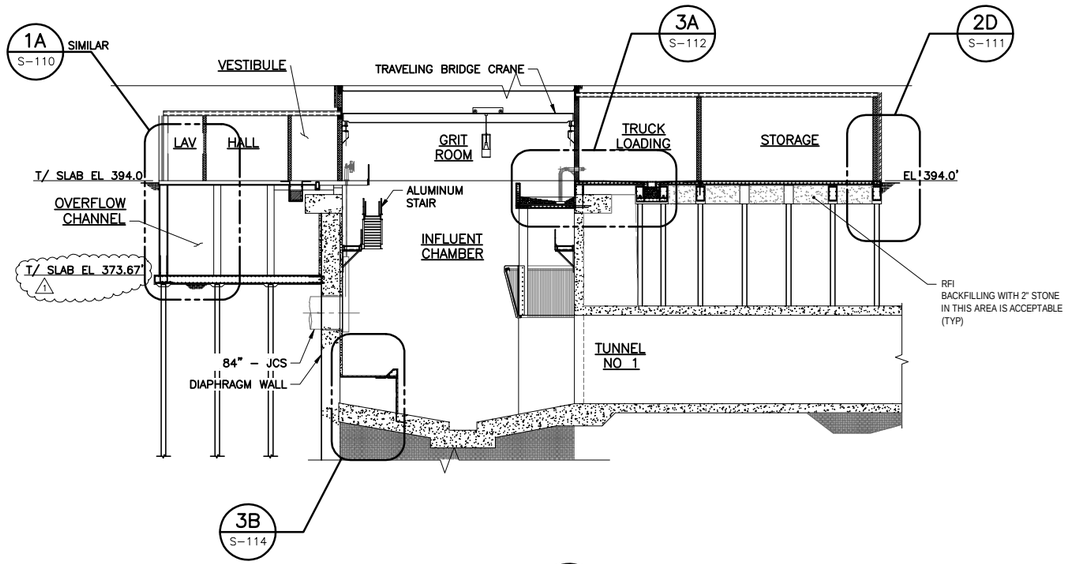
STATE OF NEW YORK · GERALD C. ROOF · LICENSED PROFESSIONAL ENGINEER · No. 67904

File Number 00663
Date 04/11

S-107



SECTION 1 S-101
1/16" = 1'-0"



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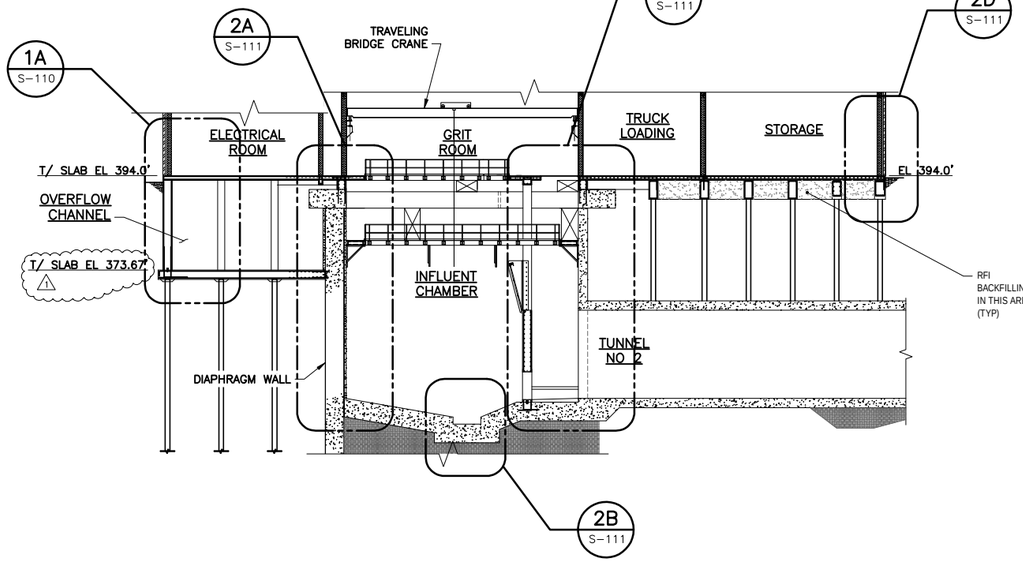
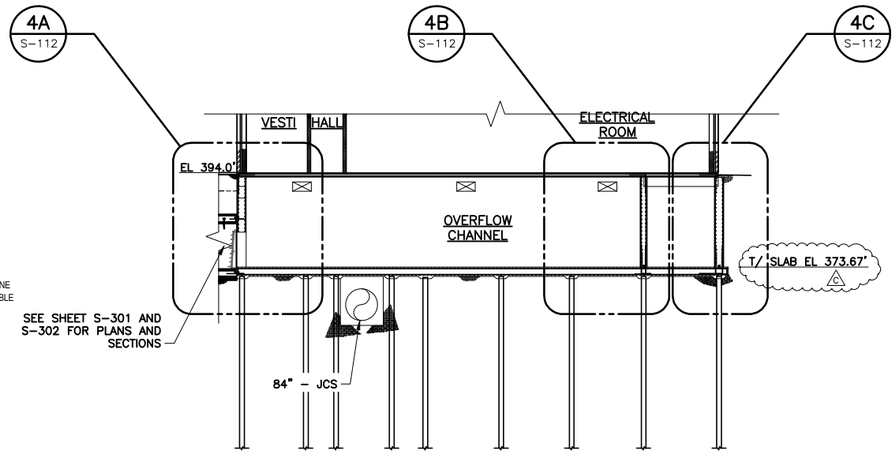
1/16" = 1'-0"



SECTION 2 S-101
1/16" = 1'-0"



SECTION 4 S-101
1/16" = 1'-0"

NOTE: FOR SLURRY WALL AND JET GROUT INFORMATION REFER TO DRAWING WS-118.

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
16 8 0 16 32
1/16"=1'-0"

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No.	Date	Revisions	Init
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ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

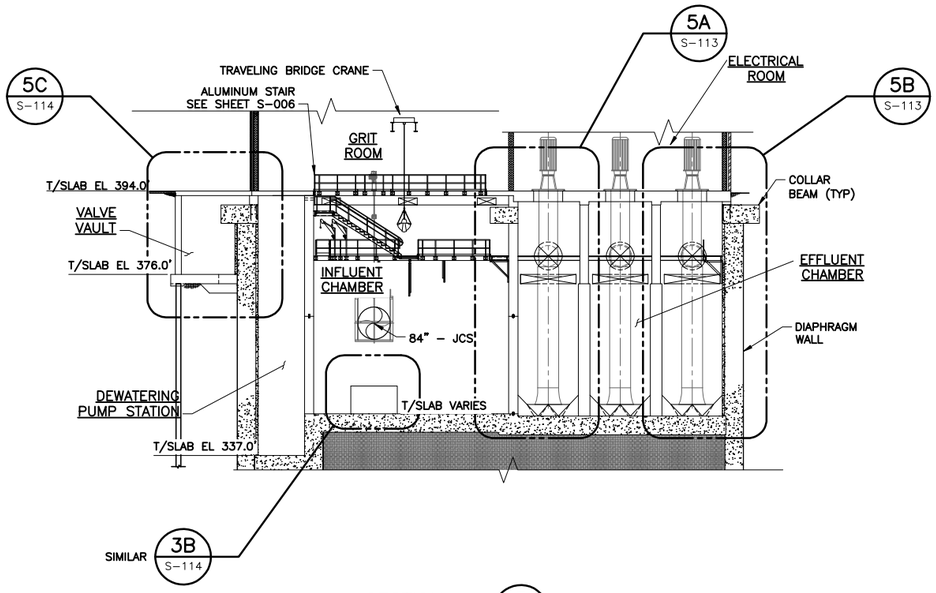
CLINTON STORAGE FACILITY
OVERALL SECTIONS

STRUCTURAL

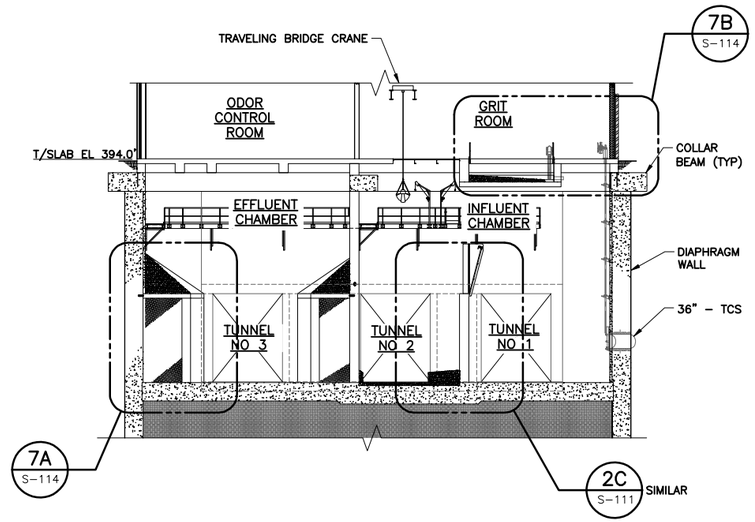
STATE OF NEW YORK · GERALD C. ROOF · LICENSED PROFESSIONAL ENGINEER · No. 67904

File Number 00663
Date 01/11

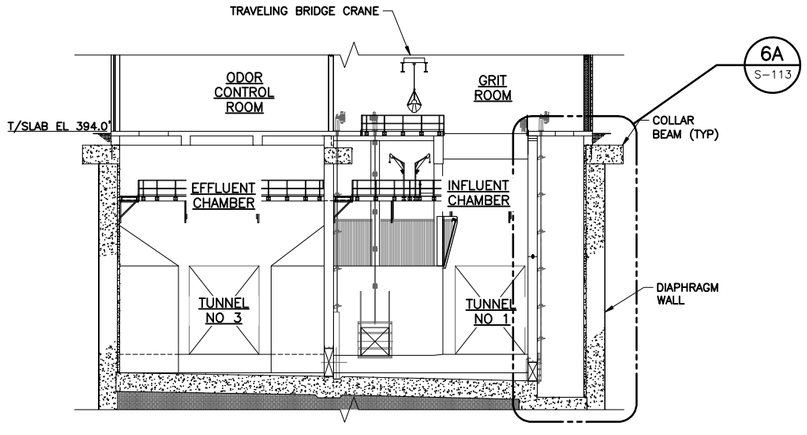
S-108



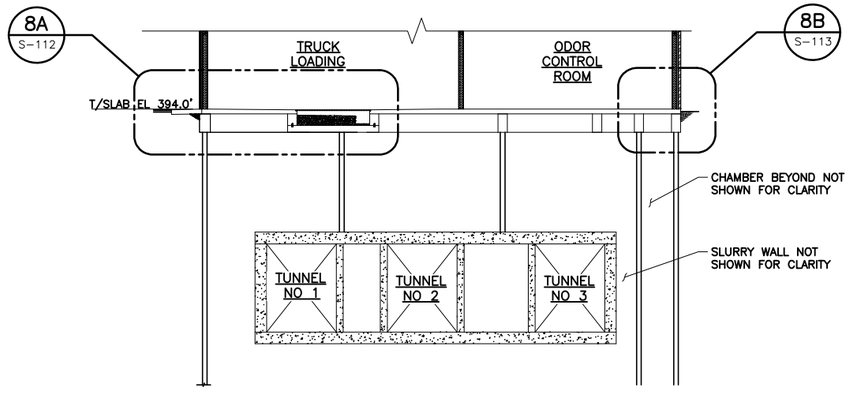
SECTION 5 (S-101)
1/16" = 1'-0"



SECTION 7 (S-101)
1/16" = 1'-0"



SECTION 6 (S-101)
1/16" = 1'-0"



NOTE: FOR SLURRY WALL AND JET GROUT INFORMATION REFER TO DRAWING WS-119.

SECTION 8 (S-101)
1/16" = 1'-0"

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RECORD DRAWING

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L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
1/16"=1'-0" (16 8 0 16 32)

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CLINTON STORAGE FACILITY
OVERALL SECTIONS

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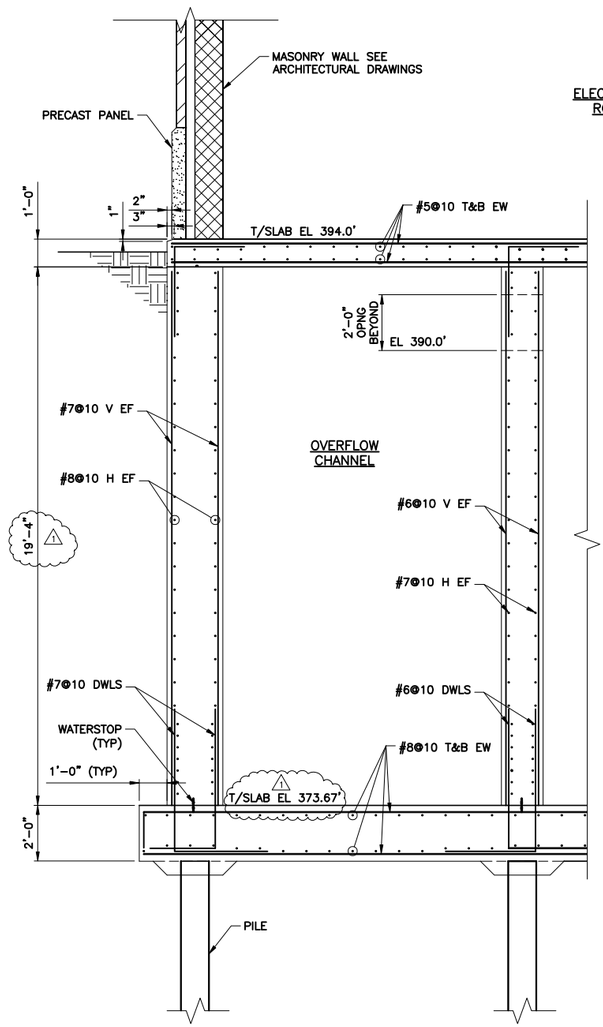
STATE OF NEW YORK · GERALD C. ROOK · No. 67504 · LICENSED PROFESSIONAL ENGINEER

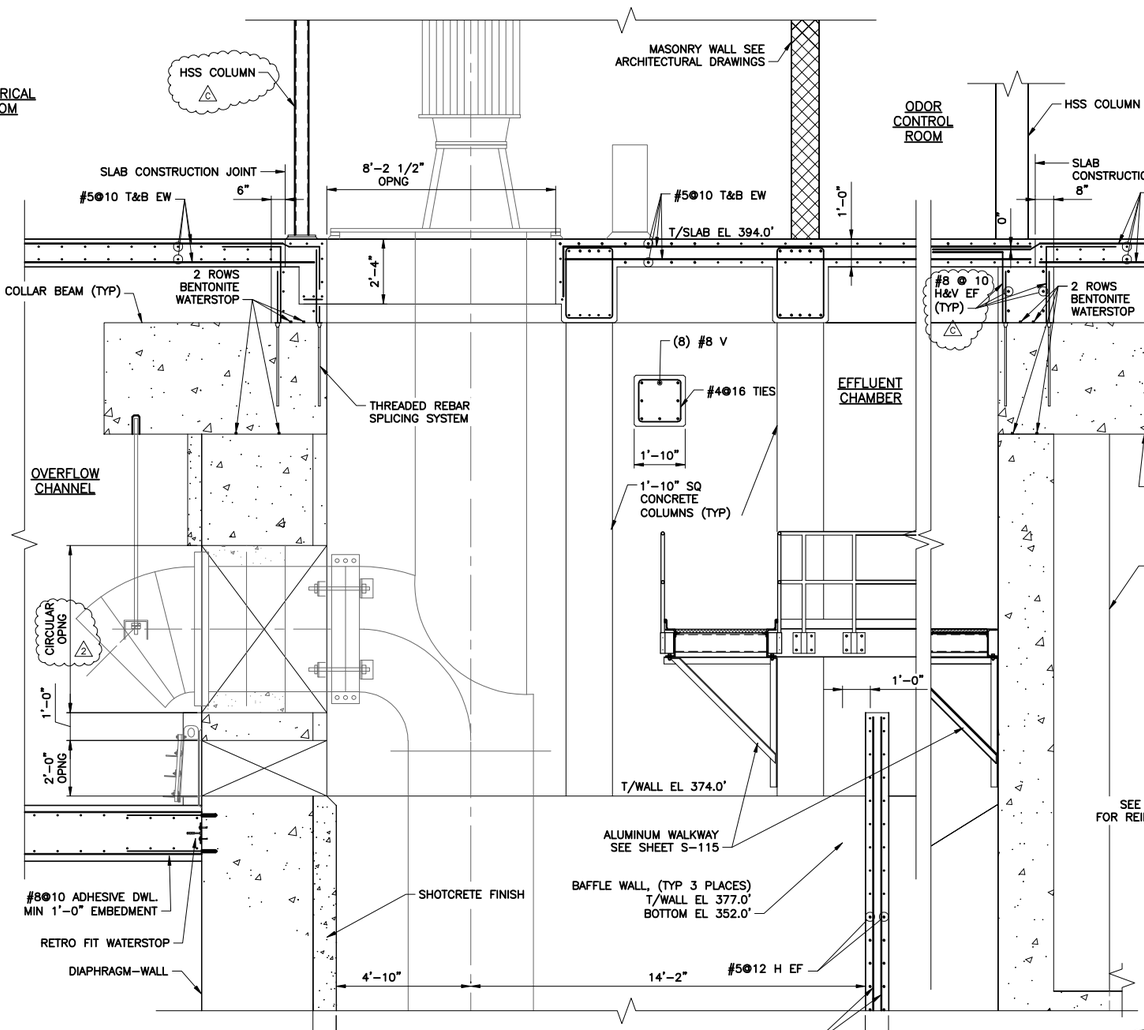
File Number 00663
Date 04/11

S-109

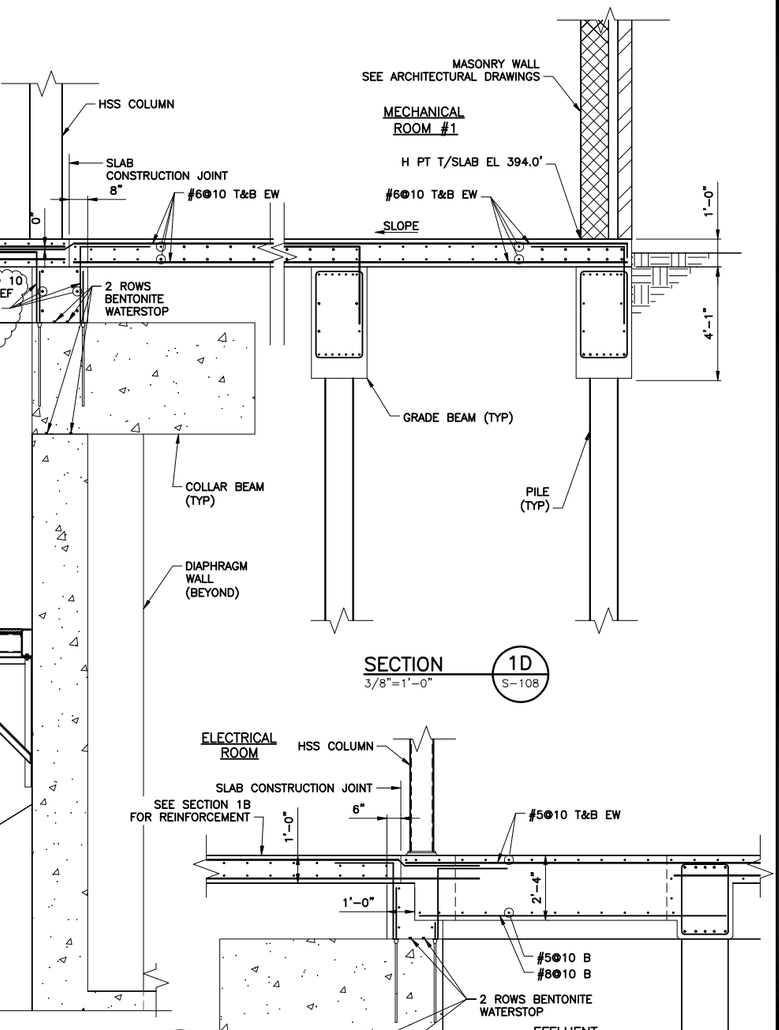
FO 35
THERE IS A 2 INCH DIMENSIONAL DIFFERENCE IN THE EAST-WEST DIRECTION BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. IT WAS INTENDED FOR THE FLOOR SLAB TO EXTEND 2 INCHES BEYOND THE FACE OF PRECAST PANEL ALONG THE WEST SIDE OF THE BUILDING AS INDICATED ON DRAWING S-105. EXTEND THE WEST END OF THE FLOOR SLAB ACCORDINGLY AND PROVIDE A 1"x3" CHAMFER ALONG THE TOP EDGE OF THE SLAB AS INDICATED IN THE ATTACHED FIGURE 1.



SECTION 1A
3/8"=1'-0" S-108



SECTION 1B
3/8"=1'-0" S-108



SECTION 1D
3/8"=1'-0" S-108

SECTION 1C
3/8"=1'-0" S-108

SECTION 1E
3/8"=1'-0" S-108

RFI 66 AND FO 9
MODIFY THE DIMENSIONS OF THE FIRST FLOOR OPENINGS, SHOTCRETE FINISH, AND LOCATIONS OF THE BAFFLE WALL AND EFFLUENT PUMPS AS SHOWN ON FIGURE 4.

RFI 222
IT IS ACCEPTABLE TO INSTALL THE ADDITIONAL WALL/SALB DOWELS THAT TIE INTO THE SLAB TO MAT REBAR AS INDICATED. PLEASE NOTE THAT ALL THE CURRENTLY INSTALLED WALL/SLAB DOWELS SHALL REMAIN.

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RECORD DRAWING
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X:
MO/DA/YR CO DFT
DIR/DWG

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

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File Number 00663
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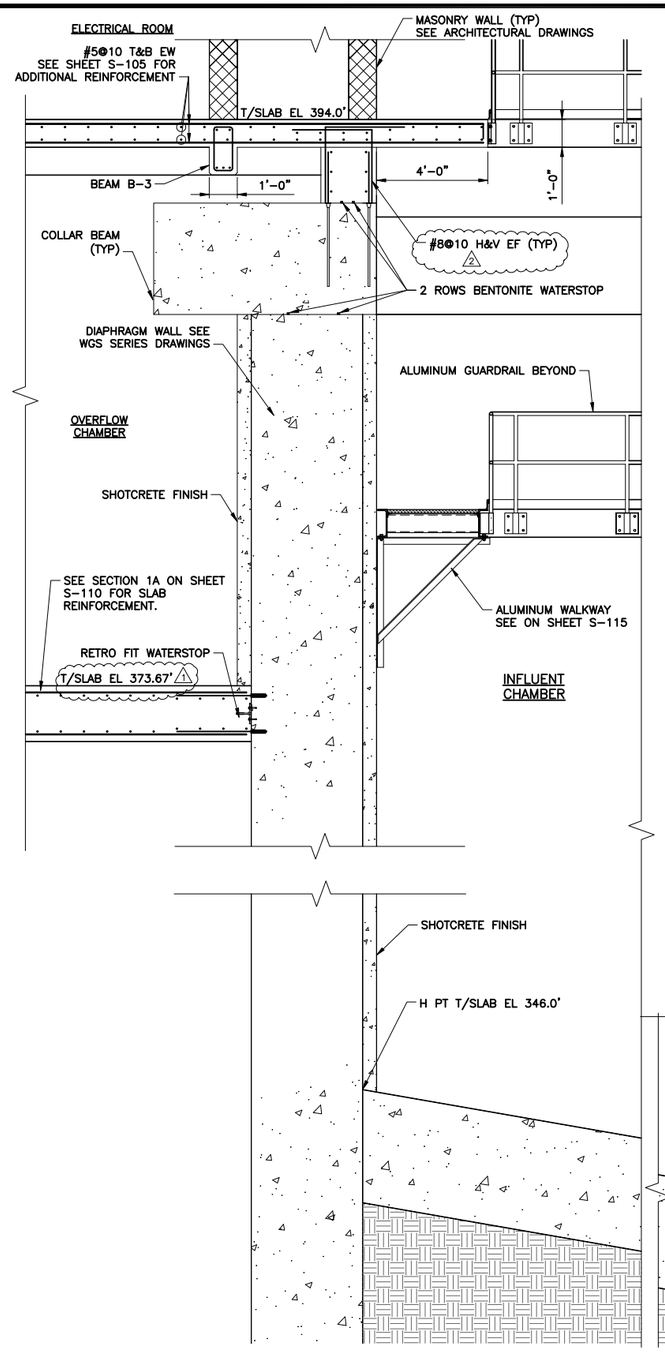
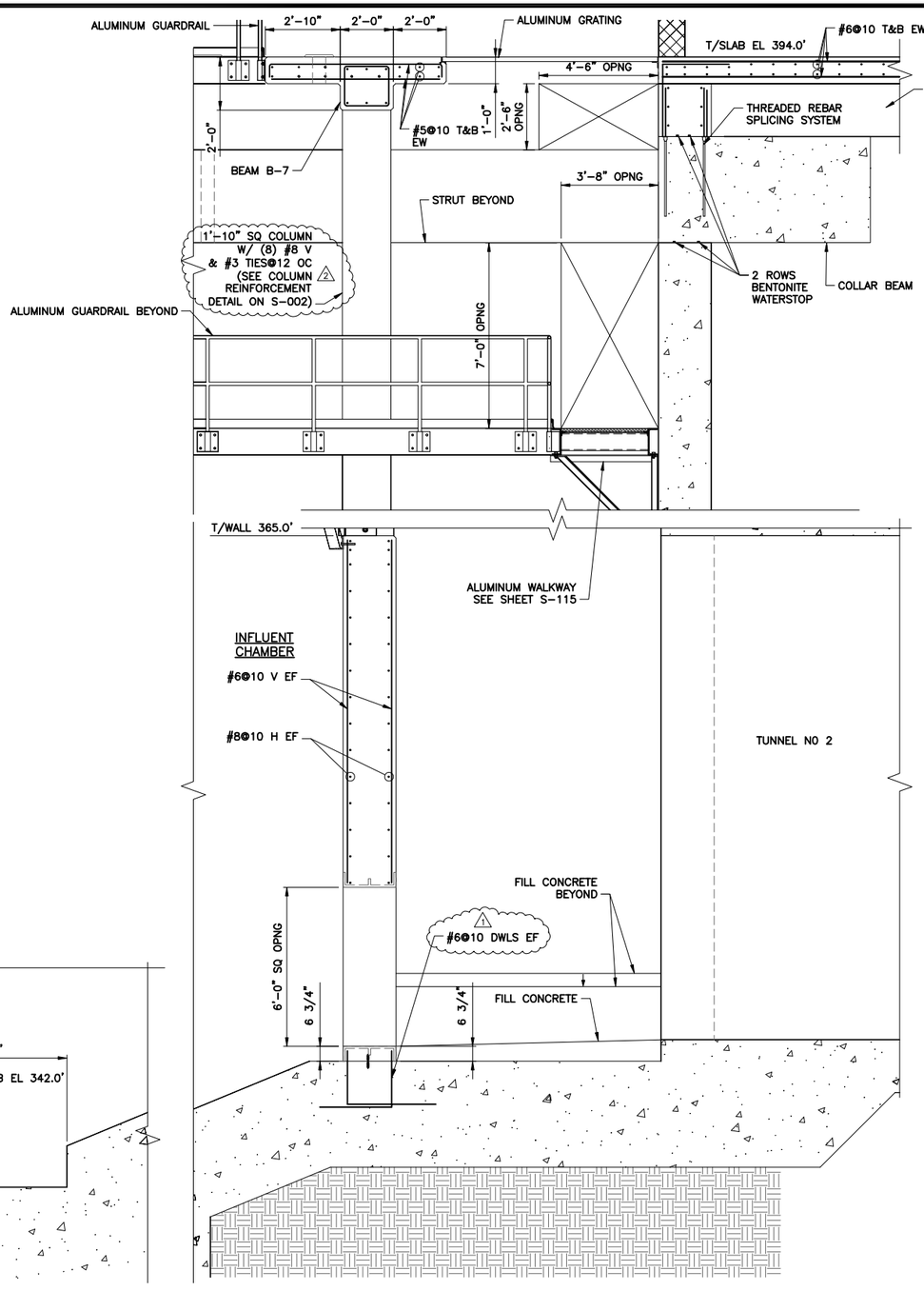
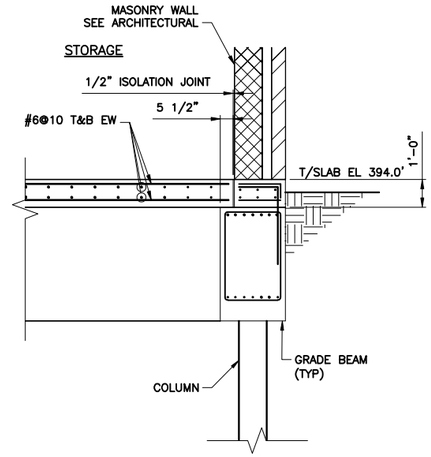
S-110



SECTION 2A
3/8"=1'-0" S-108



SECTION 2B
3/8"=1'-0" S-108



SECTION 2D
3/8"=1'-0" S-108

SECTION 2C
3/8"=1'-0" S-108

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

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CLINTON STORAGE FACILITY
PARTIAL SECTIONS

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Date 01/11

S-111

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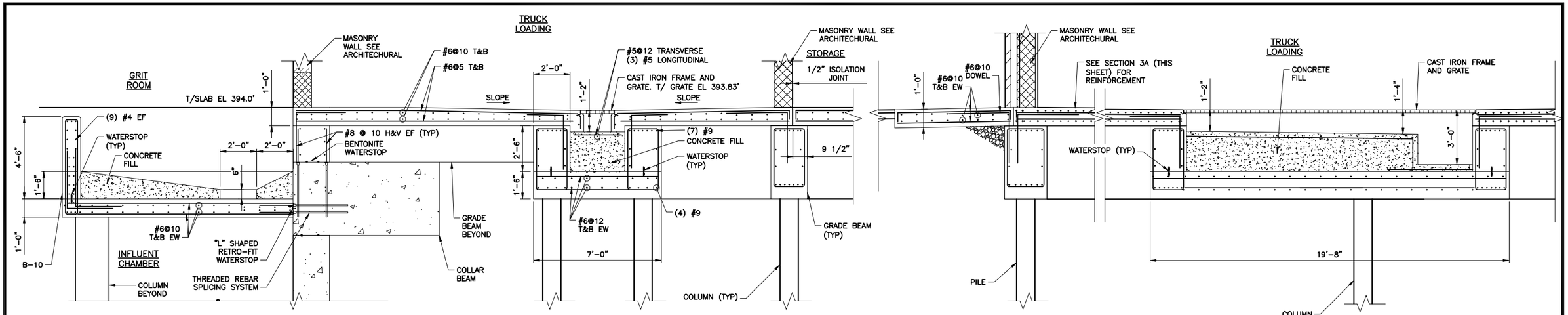
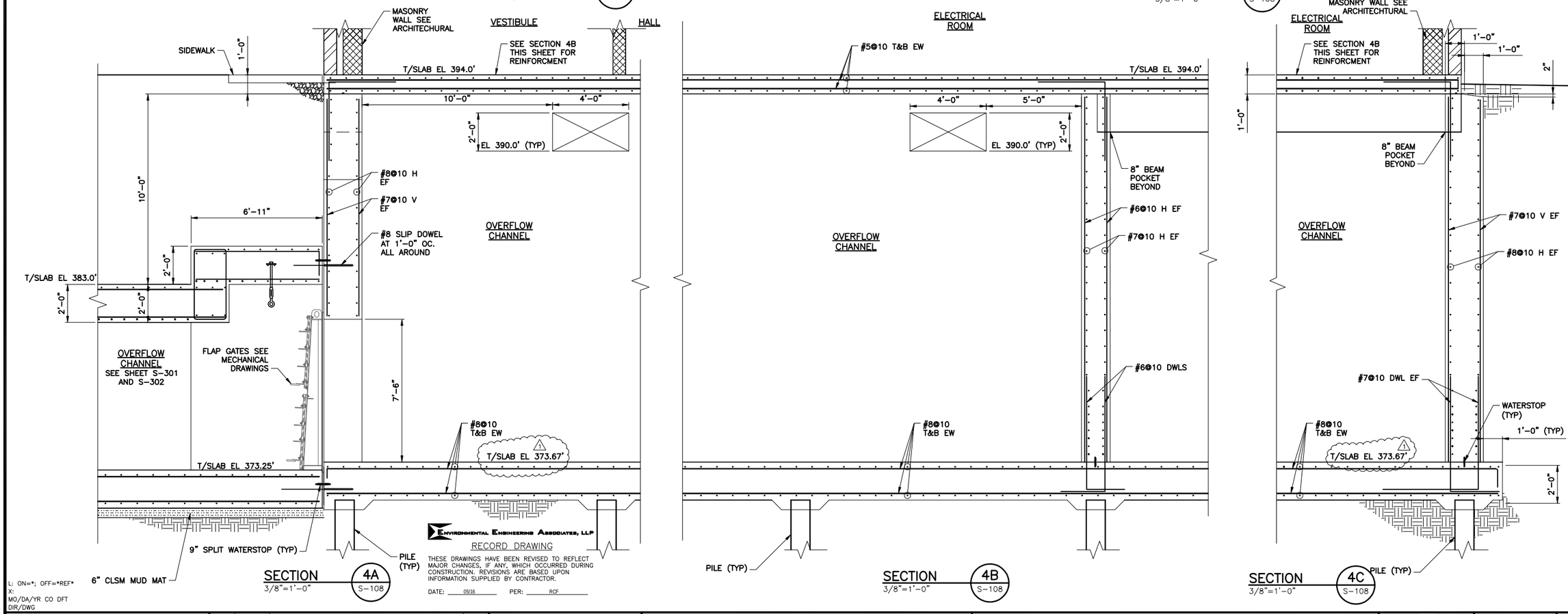


SECTION 3A
3/8"=1'-0"
S-108

SECTION 8A
3/8"=1'-0"
S-108



SECTION 4A
3/8"=1'-0"
S-108

SECTION 4B
3/8"=1'-0"
S-108

SECTION 4C
3/8"=1'-0"
S-108

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RECORD DRAWING

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
3/8"=1'-0"
1 0 1 2 3 4 5 6 7

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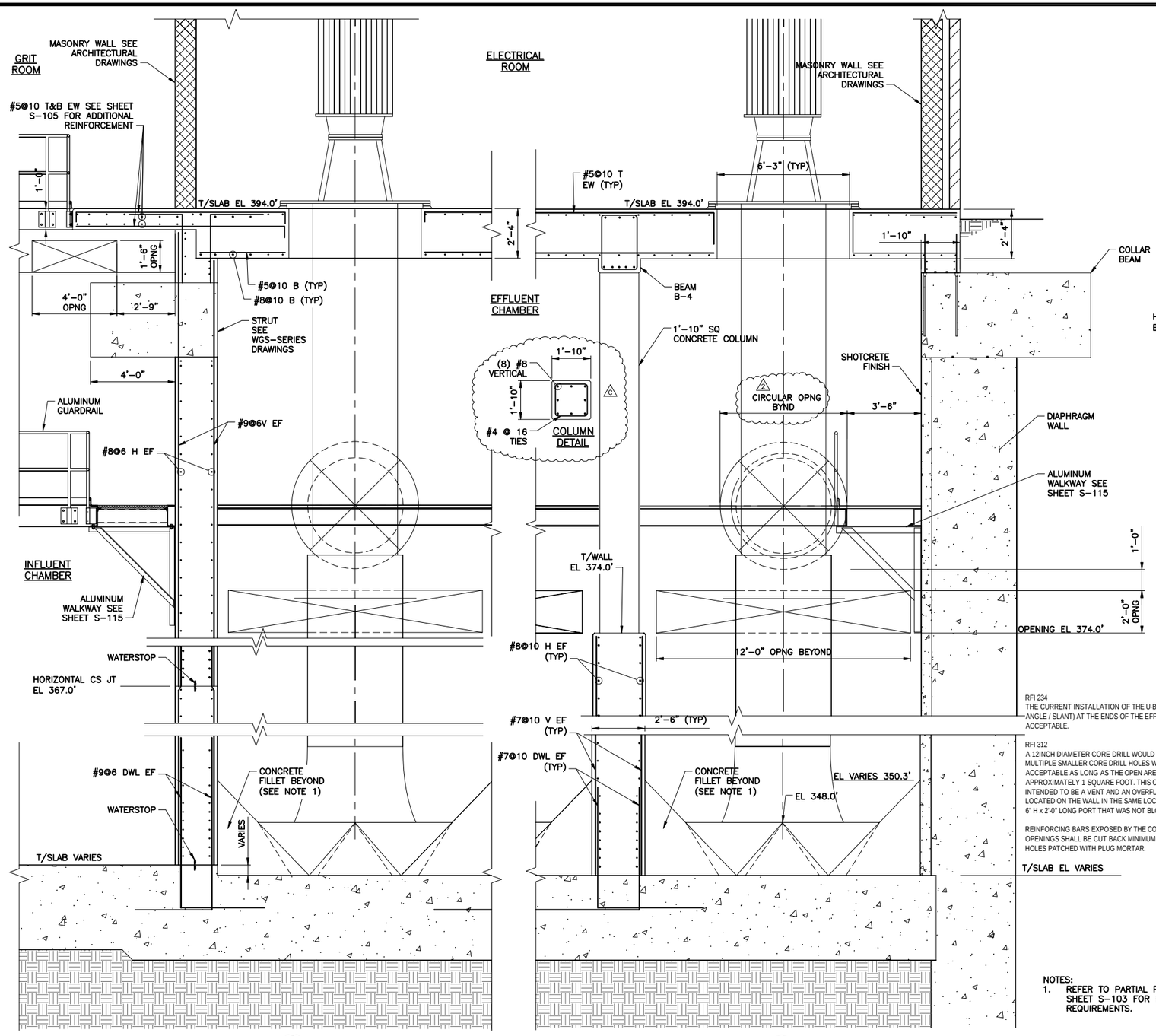
WEST CHAMBER SECTIONS

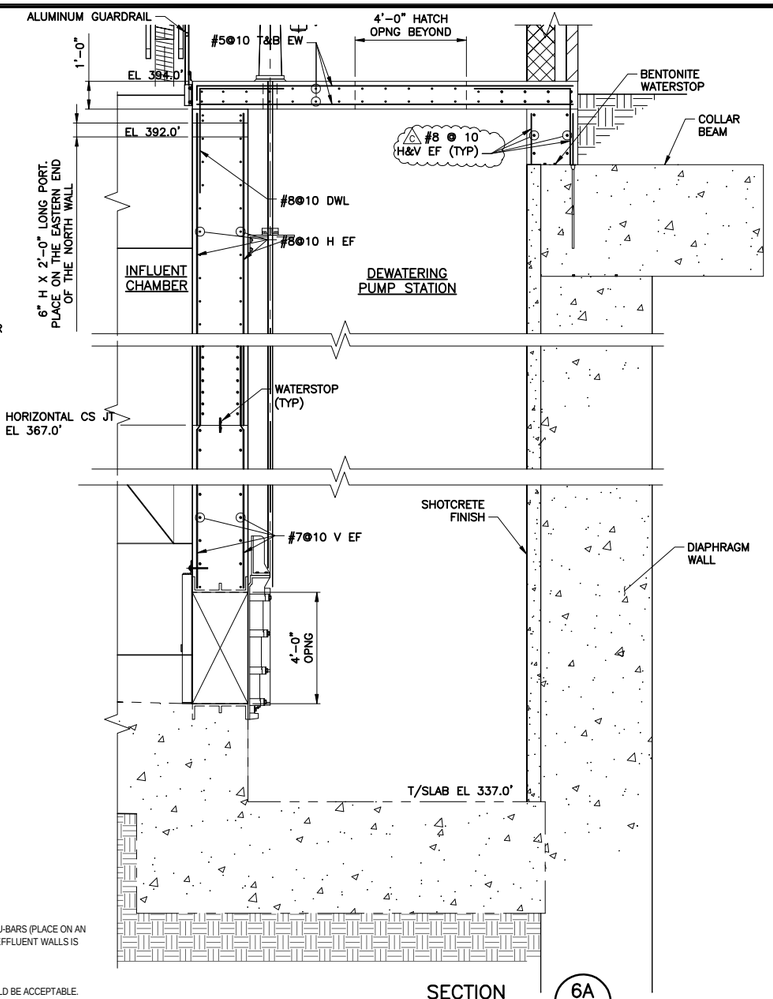
STRUCTURAL

STATE OF NEW YORK · GERALD C. HOAR · No. 57564 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

S-112



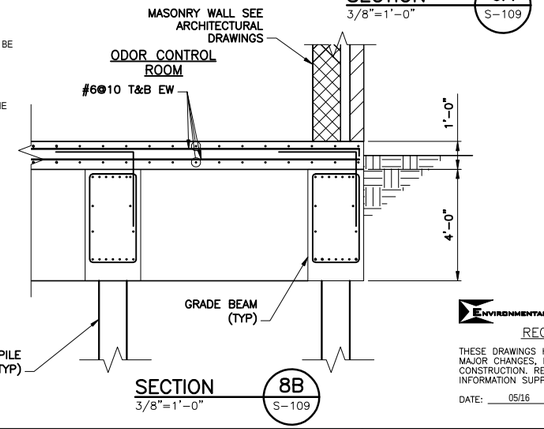


RFI 234
THE CURRENT INSTALLATION OF THE U-BARS (PLACE ON AN ANGLE / SLANT) AT THE ENDS OF THE EFFLUENT WALLS IS ACCEPTABLE.

RFI 312
A 12INCH DIAMETER CORE DRILL WOULD BE ACCEPTABLE. MULTIPLE SMALLER CORE DRILL HOLES WOULD ALSO BE ACCEPTABLE AS LONG AS THE OPEN AREA IS APPROXIMATELY 1 SQUARE FOOT. THIS OPENING WAS INTENDED TO BE A VENT AND AN OVERFLOW AND SHOULD BE LOCATED ON THE WALL IN THE SAME LOCATION AS THE 6" H x 2'-0" LONG PORT THAT WAS NOT BLOCKED OUT.

REINFORCING BARS EXPOSED BY THE CORE DRILLED OPENINGS SHALL BE CUT BACK MINIMUM 2 INCHES AND THE HOLES PATCHED WITH PLUG MORTAR.

NOTES:
1. REFER TO PARTIAL PLAN ON SHEET S-103 FOR FILLET REQUIREMENTS.



SECTION 5A S-109 — 3/8"=1'-0"

SECTION 5B S-109 — 3/8"=1'-0"

SECTION 6A S-109 — 3/8"=1'-0"

SECTION 8B S-109 — 3/8"=1'-0"

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE: 3/8"=1'-0"
3/8"=1'-0" 1 0 1 2 3 4 5 6 7

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.

No.	Date	Revisions	Init
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WEST CHAMBER SECTIONS

STRUCTURAL

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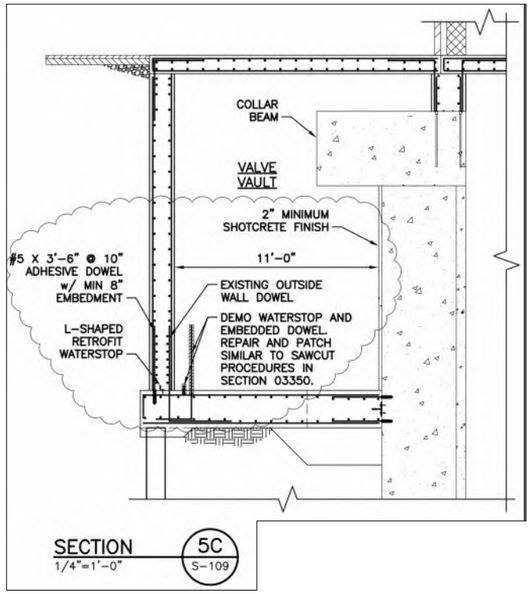
File Number 00663
Date 04/11

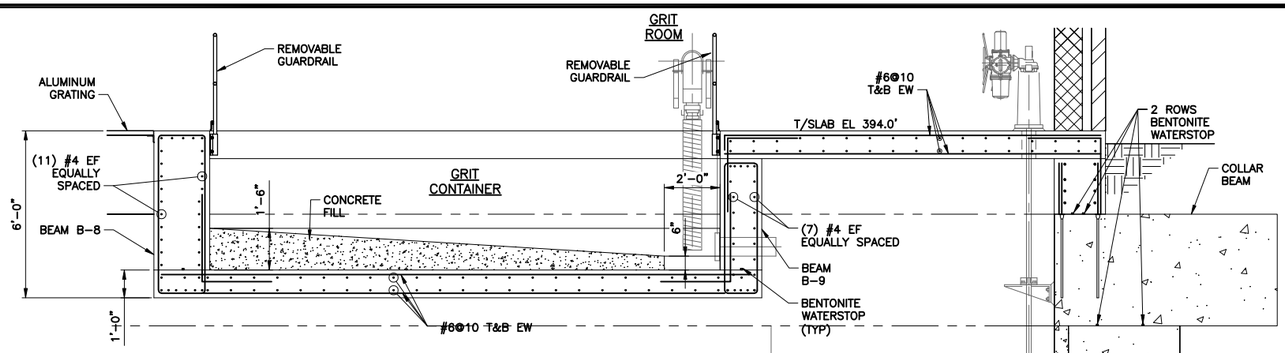
S-113

FO 24
THERE IS A CONFLICT WITH OF DIMENSIONS PROVIDED FOR THE WEST CHAMBER VALVE VAULT AS DETAILED ON CONTRACT DRAWINGS S-104 AND S-114. THE SHOP DRAWINGS WERE APPROVED AND THE BASE SLAB WAS CAST IN ACCORDANCE WITH THE SMALLER DIMENSIONS. THIS SMALLER DIMENSION WOULD NOT BE ACCEPTABLE, SO A MODIFICATION TO THIS VALVE VAULT WOULD NEED TO BE PERFORMED.

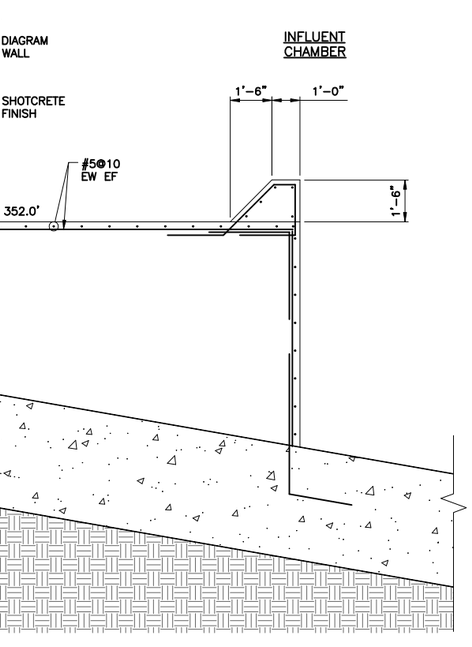
REFER TO ATTACHED FIGURES 1 THRU 3. WITH THE EXCEPTION OF THE #5 DOWELS TO BE DRILLED AND ANCHORED ALONG THE LONG WALL OUTSIDE FACE, THERE SHOULDNT BE THE NEED FOR ADDITIONAL REINFORCING BAR CHANGES. NOTE THAT THE WALL U-BARS ARE OF SUFFICIENT LENGTH SO THAT THE EAST AND WEST SHORT WALLS HORIZONTAL REINFORCING BARS CAN STILL BE UTILIZED WITH THE LENGTHS INDICATED IN THE APPROVED SHOP DRAWINGS.



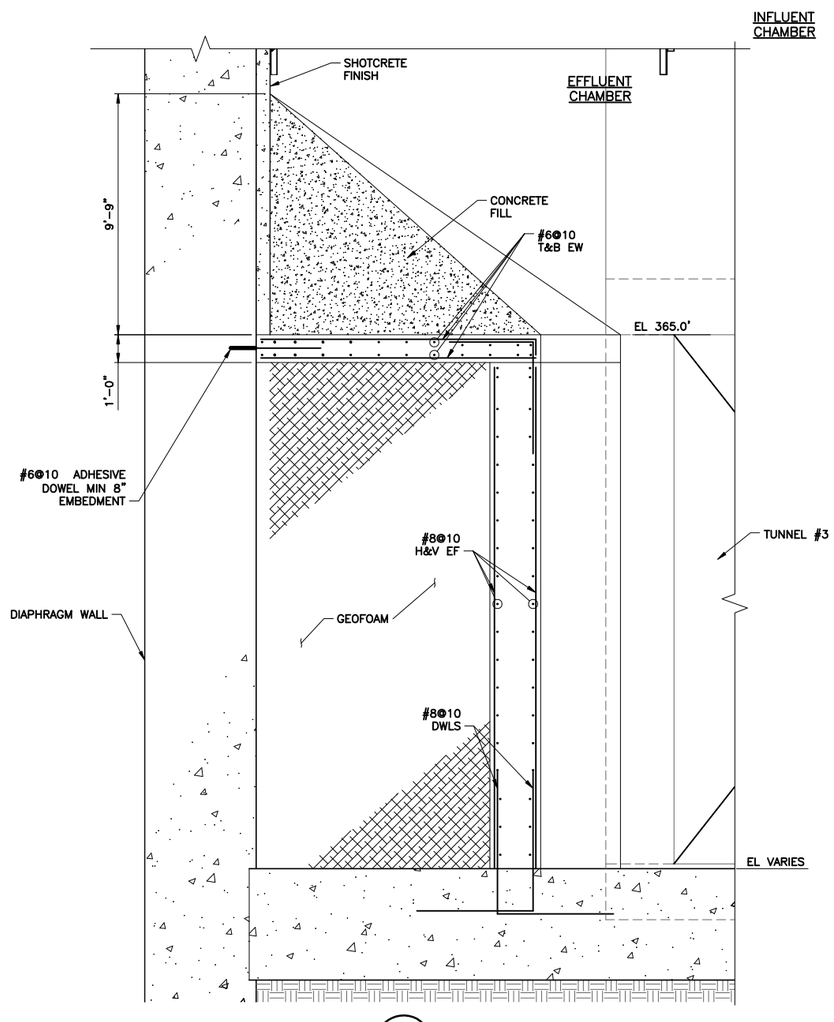
SECTION 5C
1/4"=1'-0" S-109



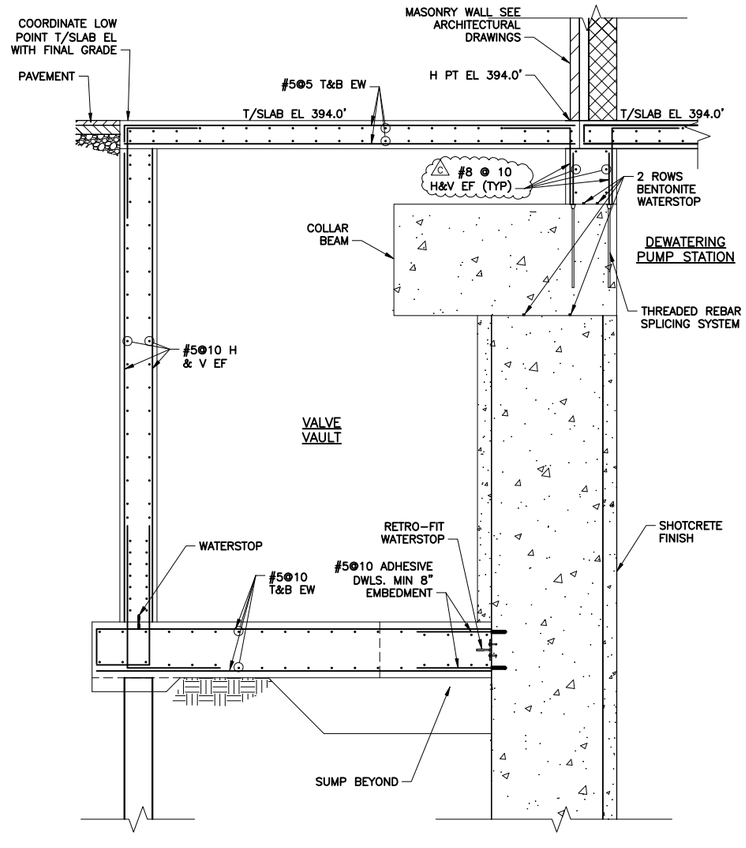
SECTION 7B
3/8"=1'-0" S-109



SECTION 3B
3/8"=1'-0" S-108



SECTION 7A
3/8"=1'-0" S-109



SECTION 5C
3/8"=1'-0" S-109

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SCALE: 3/8"=1'-0"
3/8"=1'-0" 1 0 1 2 3 4 5 6 7

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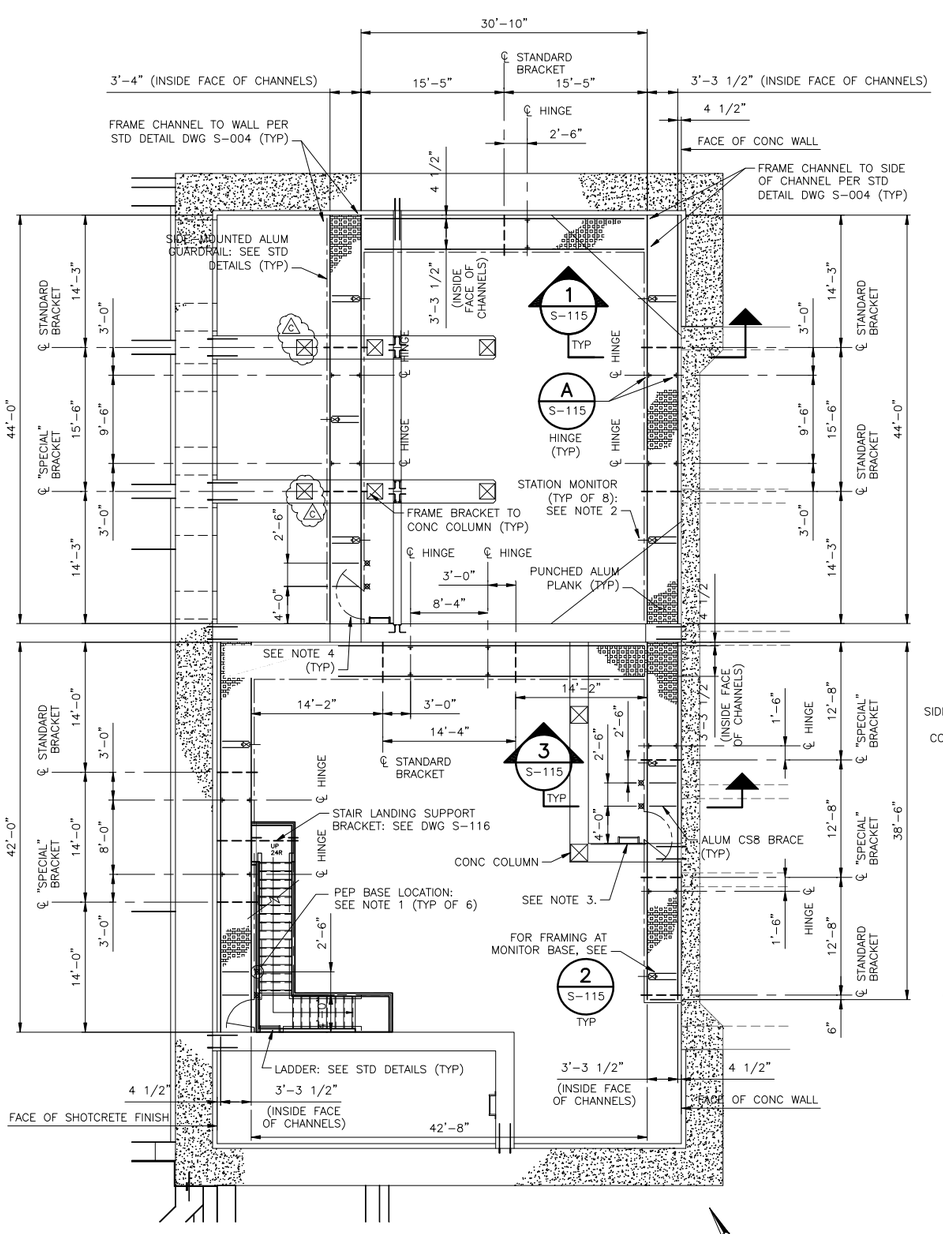
CLINTON CSO STORAGE FACILITY PROJECT

WEST CHAMBER SECTIONS
STRUCTURAL

STATE OF NEW YORK · GERALD C. HOOK · No. 57904 · LICENSED PROFESSIONAL ENGINEER

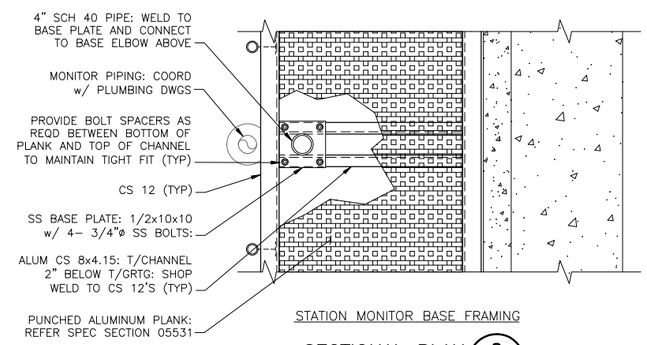
File Number 00663
Date 04/11

S-114



WEST CHAMBER – PLATFORM PLAN @ EL 380.0'

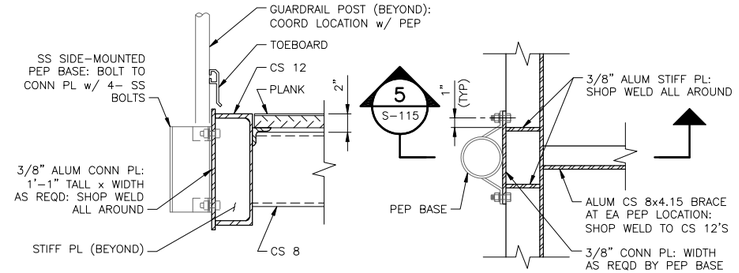
SCALE: 1/8"=1'-0"



STATION MONITOR BASE FRAMING

SECTIONAL PLAN 2 S-115

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



PEP BASE CONNECTION

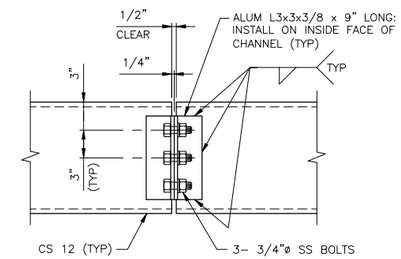
SECTION 5 S-115

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

PEP BASE CONNECTION

SECTIONAL PLAN 4 S-115

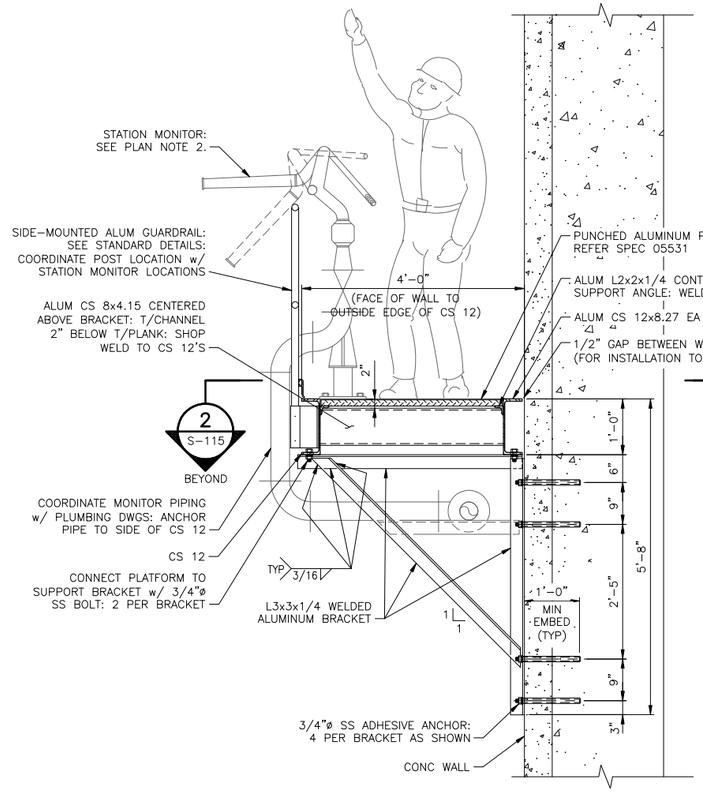
SCALE: 1 1/2"=1'-0"

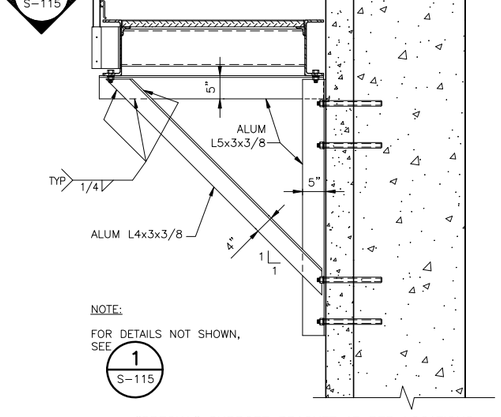


FIELD-INSTALLED BEAM HINGE

DETAIL A S-115

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





NOTE:

FOR DETAILS NOT SHOWN, SEE 1 S-115

"SPECIAL" SUPPORT BRACKET AT PEP LOCATIONS

SECTION 3 S-115

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

NOTES:

1. PEP LOCATIONS ARE SHOWN FOR BIDDING PURPOSES ONLY. FINAL LOCATIONS SHALL BE COORDINATED BY OWNER AND MANUFACTURER, AND FINAL APPROVAL OF LOCATIONS MUST BE GRANTED BY ENGINEER.
2. FINAL LOCATION OF STATION MONITORS TO BE COORDINATED BY CONTRACTOR AND OWNER. STATION MONITOR DESIGN SHALL ALLOW MINIMUM 60° DOWNWARD ANGLE OF SPRAY. MODIFY GUARDRAIL AS NEEDED AT MONITOR LOCATIONS TO FACILITATE. CONTRACTOR SHALL COORDINATE FINAL DESIGN WITH MANUFACTURER.
3. PROVIDE ALUM CS 8x4.15 HORIZONTAL CHANNEL FOR SUPPORT OF LADDER. FRAME CS8 FROM CONC COLUMN TO SIDE OF CS 12. USE ALUM CLIP ANGLE w/ 2- SS ADHESIVE ANGLES TO FRAME TO COLUMN. LADDER TO EXTEND TO ELEV 383.0.
4. PROVIDE SWING GATE (DWG S-005) AT EACH LADDER. WHERE LADDER IS AGAINST WALL, PROVIDE 6" SECTION OF RAIL MOUNTED AGAINST FACE OF WALL TO ACT AS LATCH FOR GATE.

STANDARD SUPPORT BRACKET

SECTION 1 S-115

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

1/2"=1'-0" 1 0 1 2 3 4 5

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

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
1/8"=1'-0" 8 4 0 8 16

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No.	Date	Revisions	Init
1	05/16	RECORD DRAWINGS	

In charge of CMK
Designed by SHA
Drawn by SHA
Checked by CMK

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

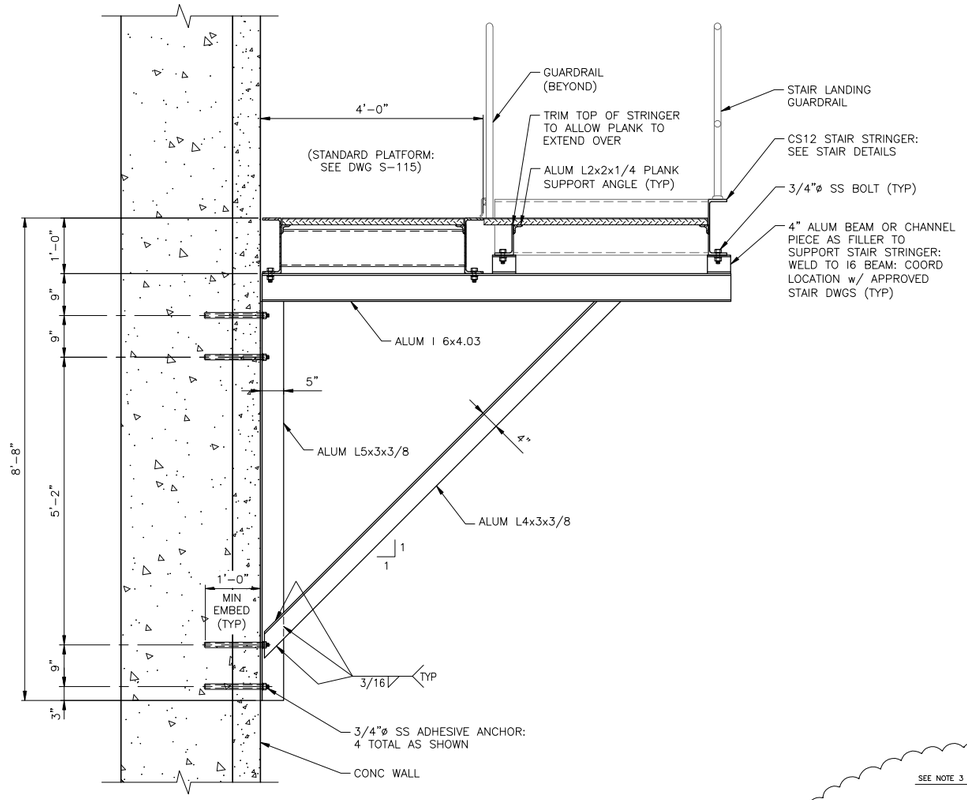
WEST CHAMBER
PERSONNEL EQUIPMENT PLATFORM

STRUCTURAL

STATE OF NEW YORK · GERALD C. ROOF · No. 57904 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 4/11

S-115



STAIR LANDING SUPPORT BRACKET

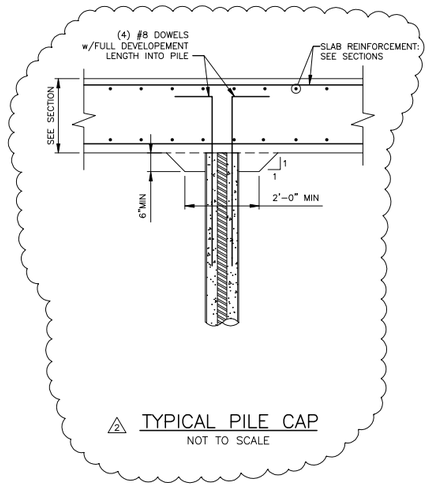
6 / S-116 SECTION
SCALE: 3/4"=1'-0"

RFI 96
IT WOULD BE ACCEPTABLE TO FIELD BEND THESE #8 DOWELS, BUT THEY SHALL BE PREHEATED BEFORE BENDING IN ACCORDANCE WITH ACI 301. ALSO NOTE THAT THE CONTRACT DOCUMENTS ONLY REQUIRE A 4'-6" SPLICE; NOT A 5'-6" SPLICE.

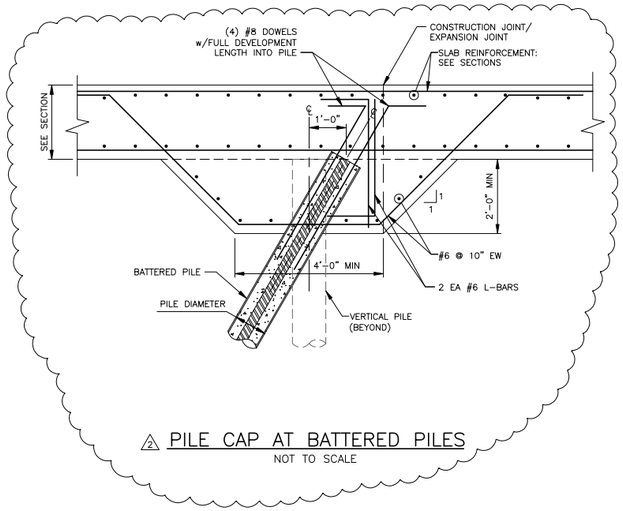
RFI 119
IN REGARDS TO THE CONFLICT OF THE BATTERED PILES WITH THE BOTTOM LAYER OF REINFORCING STEEL, WE OFFER THE FOLLOWING RESPONSE. PLACE A REINFORCING BAR CLOSE ALONG THE EDGE OF EACH CONFLICTING PILE, WITHOUT RAISING ANY OF THESE TWO BARS OVER THE PILE. IF THESE TWO BARS ARE ONLY APPROXIMATELY 12 INCHES APART, THAT WOULD BE ACCEPTABLE AS IS. (FOR INSTANCE IN PICTURE 4 MOVE THE RIGHT BAR OFF OF THE PILE OVER THE SIDE AND MOVE THE LEFT BAR CLOSER TO THE PILE TO EVEN OUT THE SPACING.) IF THE RESULTING SPACING IS MORE THAN 12 INCHES, ADD A THIRD BAR BETWEEN THESE TWO BARS THAT MAY DRAPE OVER THE PILE. (FOR INSTANCE, IN PICTURE 6 ADD ANOTHER BAR JUST TO THE RIGHT SIDE OF THE PILE AT AROUND THE 7 INCH MARK AND LEAVE THE DRAPED BAR OVER THE PILE.) THE CONTRACTOR SHALL ALSO NOTE THAT ADDITIONAL REINFORCING BARS ARE REQUIRED IN THESE BATTER PILE CAPS (HAUNCHES). REFERENCE THE "PILE CAP AT BATTERED PILES" DETAIL ON CONTRACT DRAWING S-116.

IN REGARDS TO THE #8 DOWELS BEING ANCHORED TO THE SLURRY WALL, THE OCCASIONAL 4 INCH OFFSET WOULD BE ACCEPTABLE. HOWEVER, THE BOTTOM LAYER OF REINFORCING BARS MUST BE INSTALLED MAINTAINING THE 3 INCHES FROM BOTTOM OF CONCRETE SLAB. IT IS NOT CRITICAL TO TIE THE #8 DOWELS TO EVERY BOTTOM REINFORCING BAR.

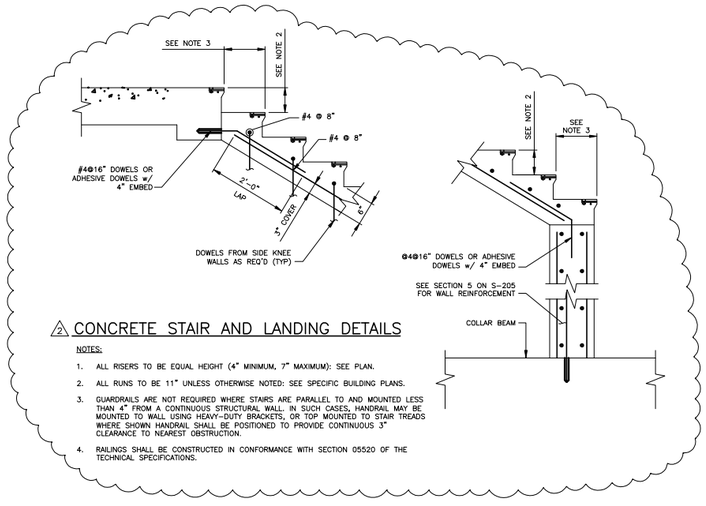
RFI 131
REFER TO FIELD ORDER NO. 14, FIGURES 1, 2, & 3 FOR BATTERED PILE LOCATIONS WERE THE "PILE CAP AT BATTERED PILES" DETAIL ON CONTRACT DRAWING S-116 CANNOT BE INSTALLED AS SHOWN.



2 TYPICAL PILE CAP
NOT TO SCALE



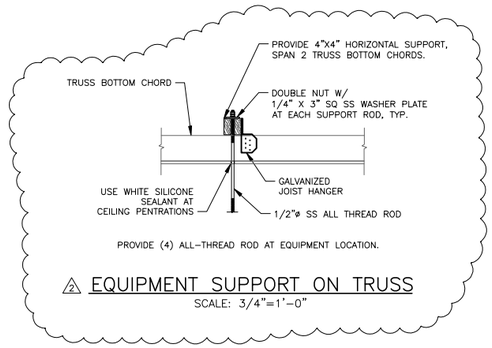
2 PILE CAP AT BATTERED PILES
NOT TO SCALE



2 CONCRETE STAIR AND LANDING DETAILS

NOTES:

1. ALL RISERS TO BE EQUAL HEIGHT (4" MINIMUM, 7" MAXIMUM): SEE PLAN.
2. ALL RUNS TO BE 11" UNLESS OTHERWISE NOTED: SEE SPECIFIC BUILDING PLANS.
3. GUARDRAILS ARE NOT REQUIRED WHERE STAIRS ARE PARALLEL TO AND MOUNTED LESS THAN 4" FROM A CONTINUOUS STRUCTURAL WALL. IN SUCH CASES, HANDRAIL MAY BE MOUNTED TO WALL USING HEAVY-DUTY BRACKETS, OR TOP MOUNTED TO STAIR TREADS WHERE SHOWN. HANDRAIL SHALL BE POSITIONED TO PROVIDE CONTINUOUS 3" CLEARANCE TO NEAREST OBSTRUCTION.
4. RAILINGS SHALL BE CONSTRUCTED IN CONFORMANCE WITH SECTION 05520 OF THE TECHNICAL SPECIFICATIONS.



2 EQUIPMENT SUPPORT ON TRUSS
SCALE: 3/4"=1'-0"

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE:
3/4"=1'-0" (1 0 1 2 3)

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1	05/16	RECORD DRAWINGS	

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In charge of CMK
Designed by SHA
Drawn by SHA
Checked by CMK

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

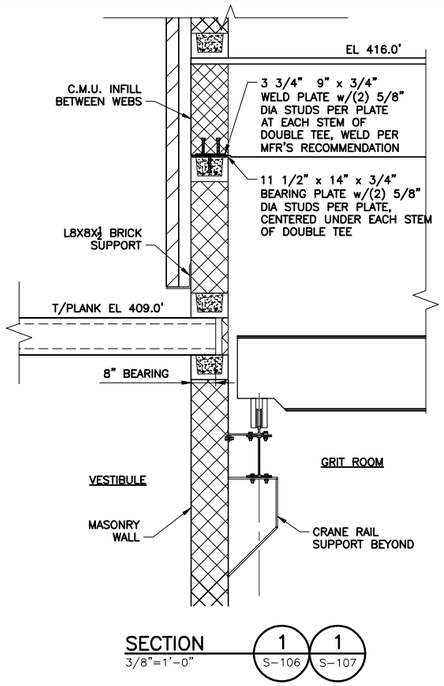
MISCELLANEOUS PLATFORM DETAILS

STRUCTURAL

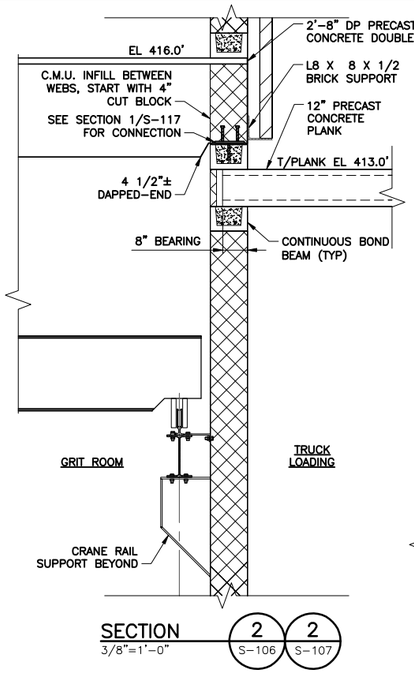
STATE OF NEW YORK · GERALD C. ROOF · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

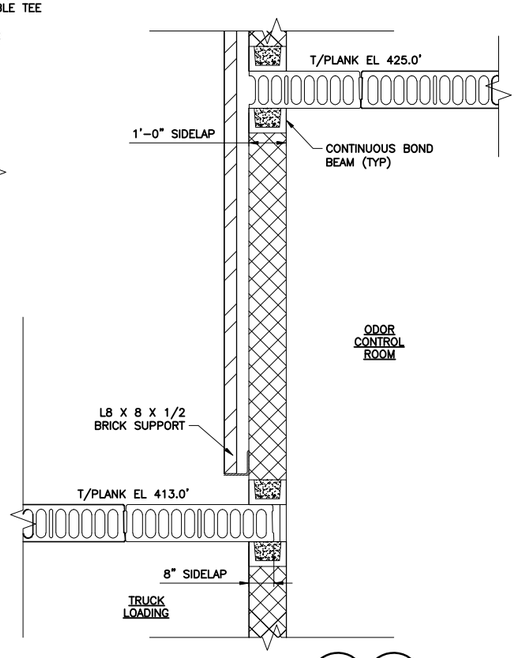
S-116



SECTION 1 S-106 1 S-107
3/8"=1'-0"



SECTION 2 S-106 2 S-107
3/8"=1'-0"



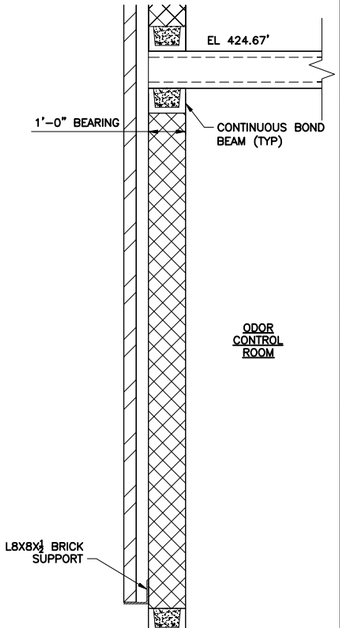
SECTION 3 S-106 3 S-107
3/8"=1'-0"

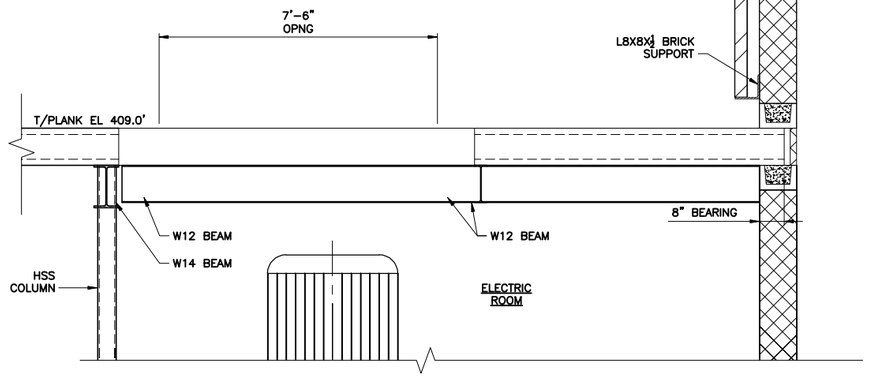
RFI 166
THESE ANGLE CLIPS SHALL BE GALVANIZED OR STAINLESS STEEL (TO MATCH THE VECTOR CONNECTOR MATERIAL).

THESE ANGLE CLIPS SHALL BE INSTALLED ON THE UNDERSIDE OF THE DOUBLE TEE FLANGE AS SHOWN. IT IS IMPORTANT TO KEEP THESE CONNECTIONS VISIBLE AND ACCESSIBLE AS NEEDED FOR FUTURE INSPECTIONS. COORDINATE THE LAYOUT OF THE DOUBLE TEE SECTIONS AS NEEDED TO ALLOW ACCESS FOR INSTALLATION OF THESE CONNECTIONS.

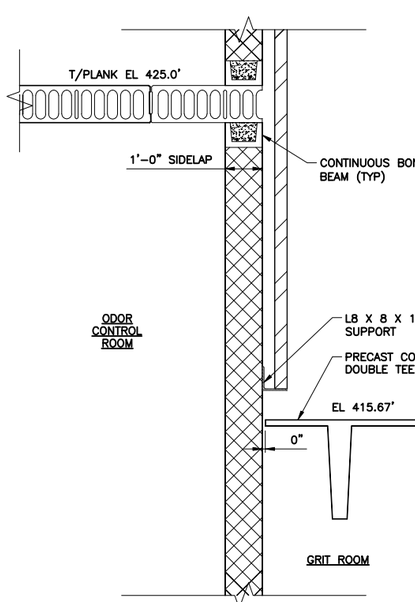
THESE ANGLE CLIP CONNECTIONS SHALL BE INSTALLED ALONG BOTH THE NORTH AND SOUTH WALLS AS INDICATED IN YOUR ATTACHED SKETCH.

RFI 258
AS PREVIOUSLY STATED, THE WALL VERTICAL REINFORCEMENT SHALL EXTEND THROUGH THE PRECAST ROOF PLANKS. NOTE THAT THE INTENT OF THE SECTIONS SHOWN ON CONTRACT DRAWING S-117 IS TO ONLY INDICATE BEARING CONDITIONS OF THE PRECAST PLANKS AND DOUBLE TEES; NOT TO INDICATE REINFORCEMENT DETAILS.
AS STATED IN FIELD ORDER NO 44, THE MEANS TO EXTEND THESE REINFORCING BARS THROUGH THE PRECAST PLANKS AND DOUBLE TEES NEED TO BE COORDINATED WITH THE PRECAST SUPPLIER. NOTE THAT THE BARS THAT DO EXTEND THROUGH WOULD NEED TO HAVE THE PROPER MASONRY BAR SPLICE LENGTH. FURTHER NOTE, THE DOWELS THAT PIN THE PRECAST PLANK TO THE BOND BEAM SHALL BE A SEPARATE BAR AND SHALL BE INSTALLED A MINIMUM OF 12 INCHES AWAY FROM THE KEYWAY(S).
IT IS NOTED THAT THE EAST WALL OF THE ODOR CONTROL ROOM DOES NOT HAVE THE BARS PENETRATING UP THROUGH THE PLANKS AS REQUIRED. AT THIS LOCATION, A PENETRATION THROUGH THE PLANK SHALL BE MADE IN AN ACCEPTABLE WORKMANSHIP LIKE MANNER THAT WOULD ALLOW A VERTICAL BAR TO BE DRILLED AND ADHESIVE ANCHORED A MINIMUM OF 6 INCHES INTO THE BOND BEAM BELOW; CENTERED IN THE WALL WIDTH. THIS PLANK PENETRATION SHALL THEN BE FILLED WITH GROUT. THE CONTRACTOR SHALL REVIEW THIS APPROACH AND RECEIVE ACCEPTABILITY FROM THE PRECAST PLANK MANUFACTURER PRIOR TO PROCEEDING.

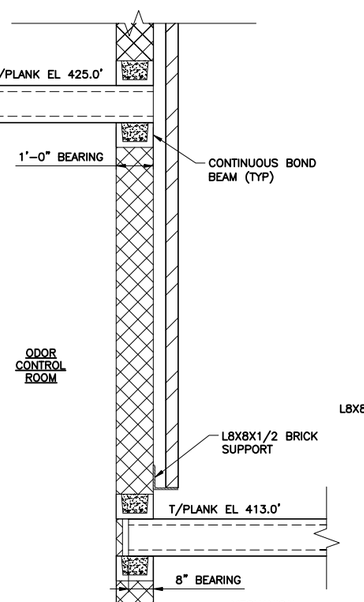




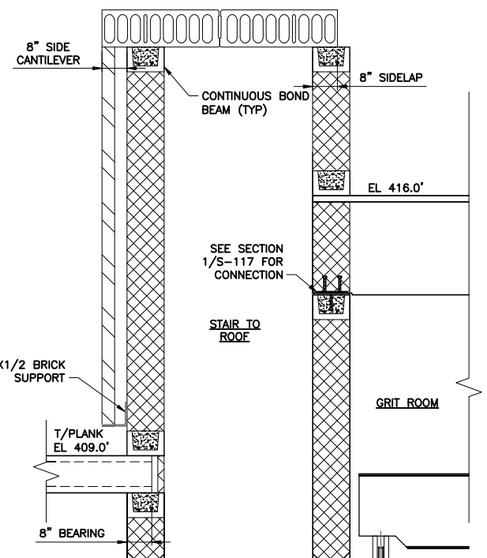
SECTION 4 S-106 4 S-107
3/8"=1'-0"



SECTION 5 S-106 5 S-107
3/8"=1'-0"



SECTION 6 S-106 6 S-107
3/8"=1'-0"



SECTION 7 S-106 7 S-107
3/8"=1'-0"

NOTES:

1. BOND BEAMS AND PRE-CAST PLANK BEARING SHOWN ON ARCHITECTURAL DRAWINGS ARE SCHEMATIC. PROVIDE BOND BEAMS AND PLANK BEARINGS AS SHOWN ON THIS SHEET.
2. AT ALL LOCATIONS WHERE CMU WALL CONTINUES ABOVE A LOWER ROOF ELEVATION, VERTICAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH BOND BEAMS AND PRECAST PLANK. (2)

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RECORD DRAWING

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DATE: 05/16 PER: RCF

L: ON=*; OFF=*REF*
X:
MO/DA/YR CO DFT
DIR/DWG

SCALE: 3/8"=1'-0"
1 0 1 2 3 4 5 6 7
3/8"=1'-0"

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In charge of CMK
Designed by CMK
Drawn by MJL
Checked by BTM

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP
SYRACUSE, NEW YORK

ONONDAGA COUNTY • DEPARTMENT OF WATER ENVIRONMENT PROTECTION
CLINTON CSO STORAGE FACILITY PROJECT

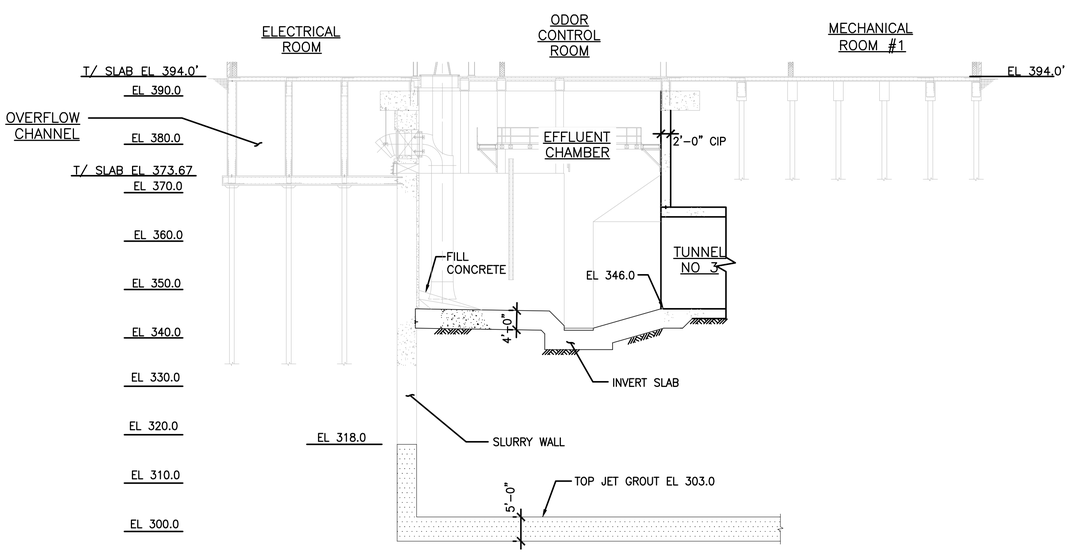
WEST CHAMBER SECTIONS

STRUCTURAL

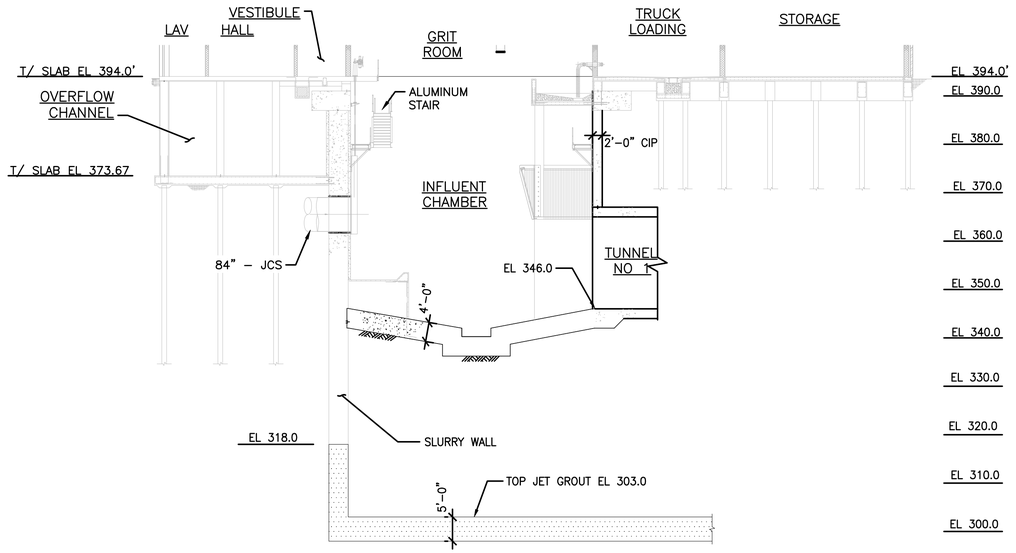
STATE OF NEW YORK · GERALD C. ROOF · No. 57504 · LICENSED PROFESSIONAL ENGINEER

File Number 00663
Date 04/11

S-117



SECTION 1
1/16" = 1'-0" S-101



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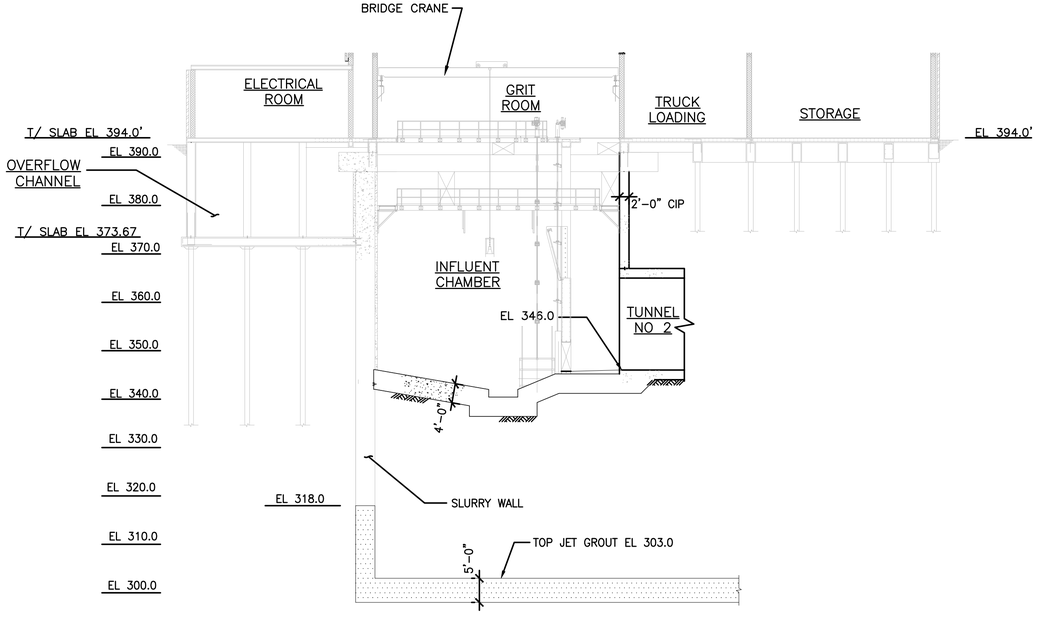
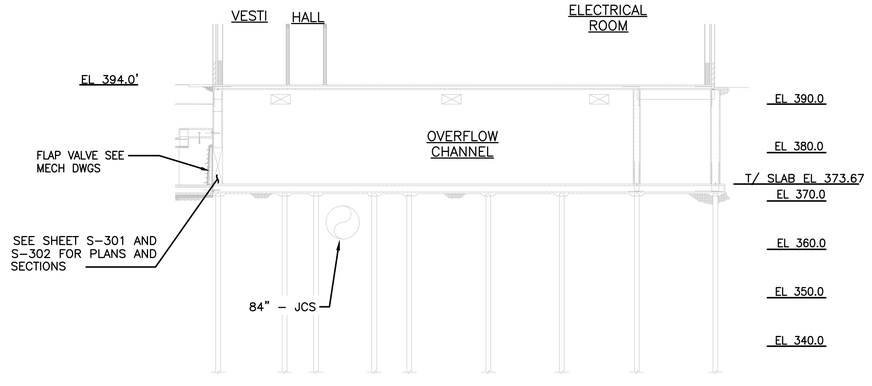
1/16" = 1'-0" S-101



SECTION 2
1/16" = 1'-0" S-101



SECTION 4
1/16" = 1'-0" S-101

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1/16"=1'-0" SCALE 0 16 32 48 FEET

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PO Box 219 - Colliersville, New York 13747
Phone: (607) 433-2100 Fax: (607)433-2430
Heavy & Highway Contractors
Sitework - Concrete - Utilities - Pre-Engineered Buildings

WEIDLINGER ASSOCIATES INC®
Consulting Engineers
201 Broadway, Cambridge MA 02139
®(617)374-0000 fax:(617)374-0010

DATE:	REVISIONS	No.
		2
03/23/12	CHANGE ORDER NO. 1	1

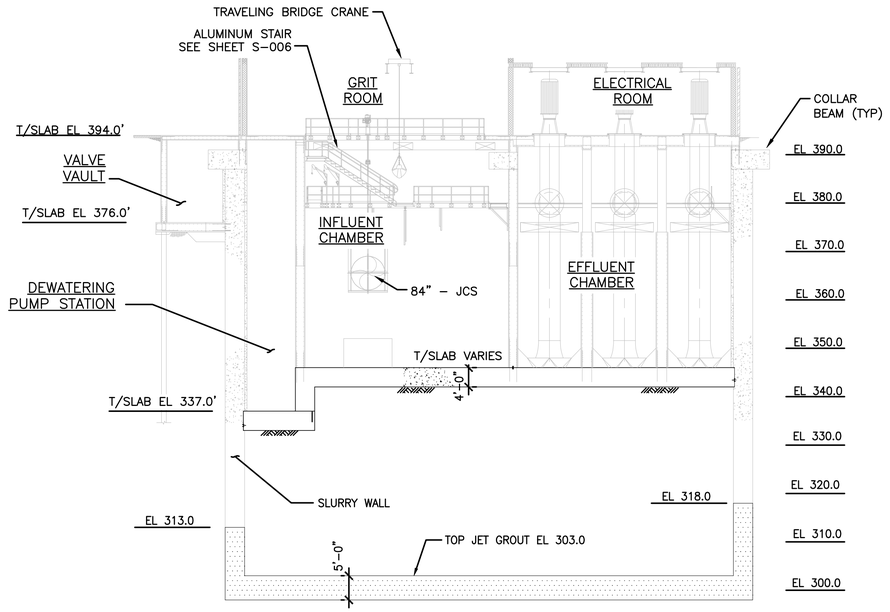
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · GE CHEN · No. 083743 · LICENSED PROFESSIONAL ENGINEER

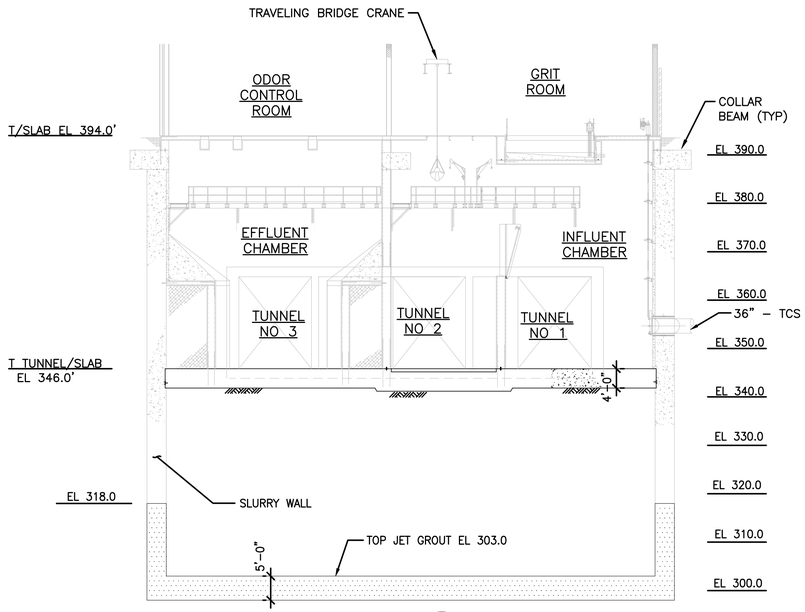
ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

OVERALL SECTIONS
STRUCTURAL

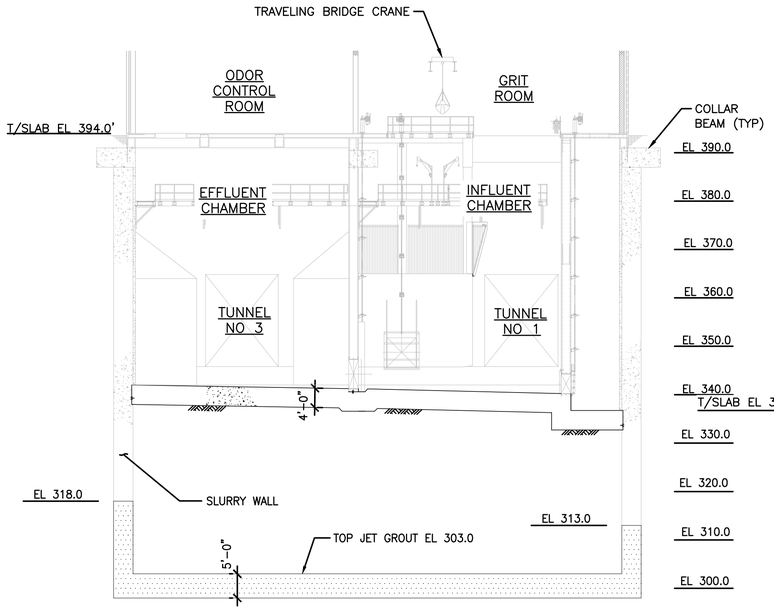
CONTRACT No.
SCALE: 1/16"=1'-0"
DATE: 10/31/11
DRAWING NO. WS-118



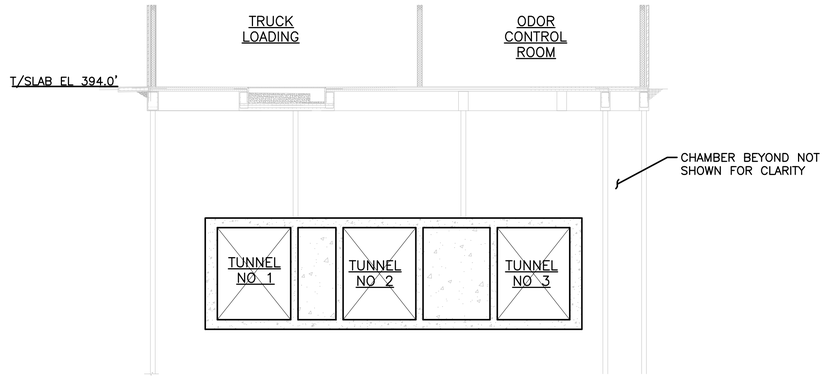
SECTION 5
1/16" = 1'-0" S-101



SECTION 7
1/16" = 1'-0" S-101



SECTION 6
1/16" = 1'-0" S-101



SECTION 8
1/16" = 1'-0" S-101

ENVIRONMENTAL ENGINEERING ASSOCIATES, LLP

RECORD DRAWING

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0 16 32 48
1/16"=1'-0"
SCALE FEET

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Phone: (607) 433-2100 Fax: (607)433-2430
Heavy & Highway Contractors
Sitework - Concrete - Utilities - Pre-Engineered Buildings

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Consulting Engineers
201 Broadway, Cambridge MA 02139
®(617)374-0000 fax:(617)374-0010

DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	3
02/27/12		2
12/08/11		1

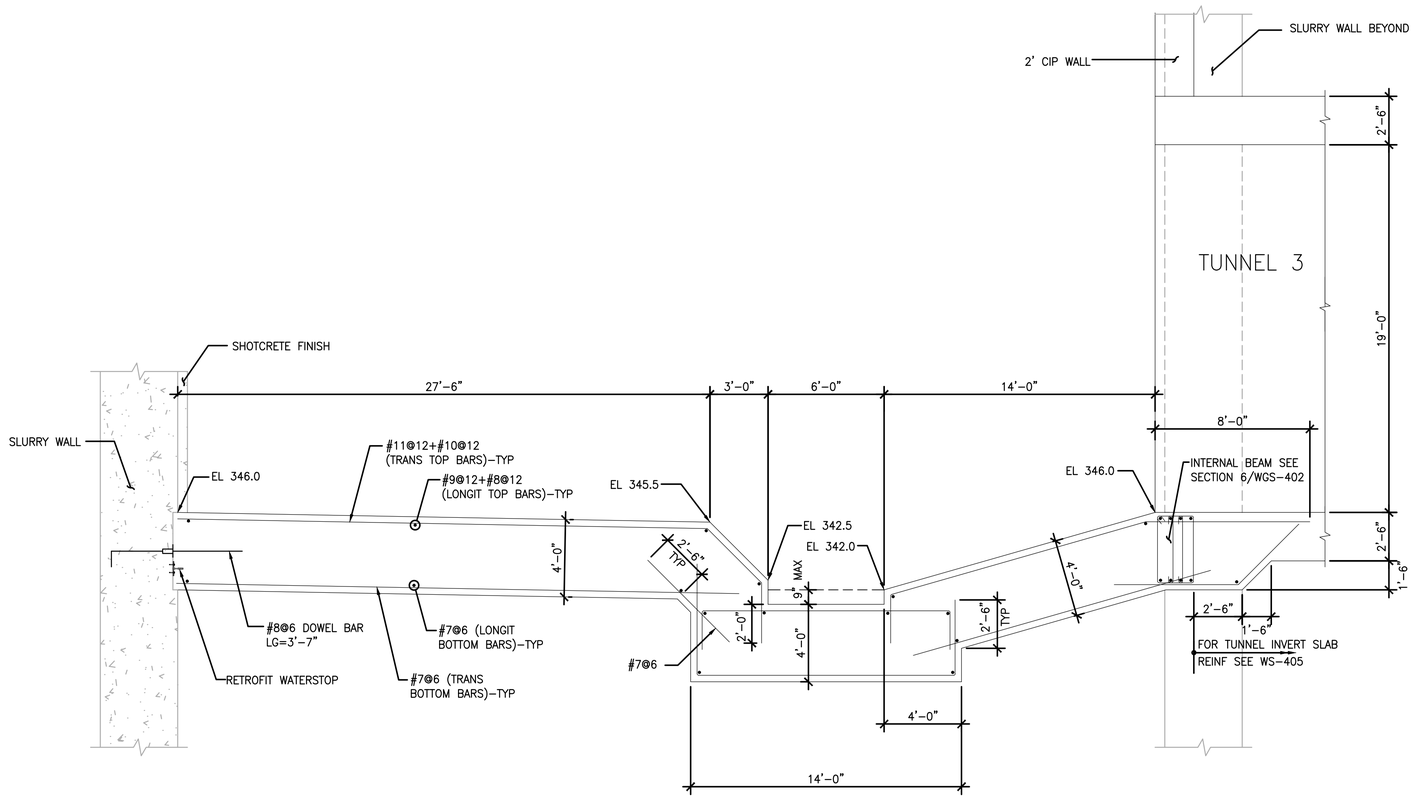
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · GE CHEN · No. 083740 · LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

OVERALL SECTIONS
STRUCTURAL

CONTRACT No.
SCALE: 1/16"=1'-0"
DATE: 10/31/11
DRAWING NO. WS-119



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

NOTE:
1. REFER TO STRUCTURAL DRAWINGS FOR REQUIRED DOWELS FOR FUTURE INTERNAL PARTITION WALLS (NOT SHOWN FOR CLARITY).

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RECORD DRAWING

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0 4 8 12
1/4"=1'-0"
SCALE FEET

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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	4
02/27/12		3
02/06/12		2
12/08/11		1

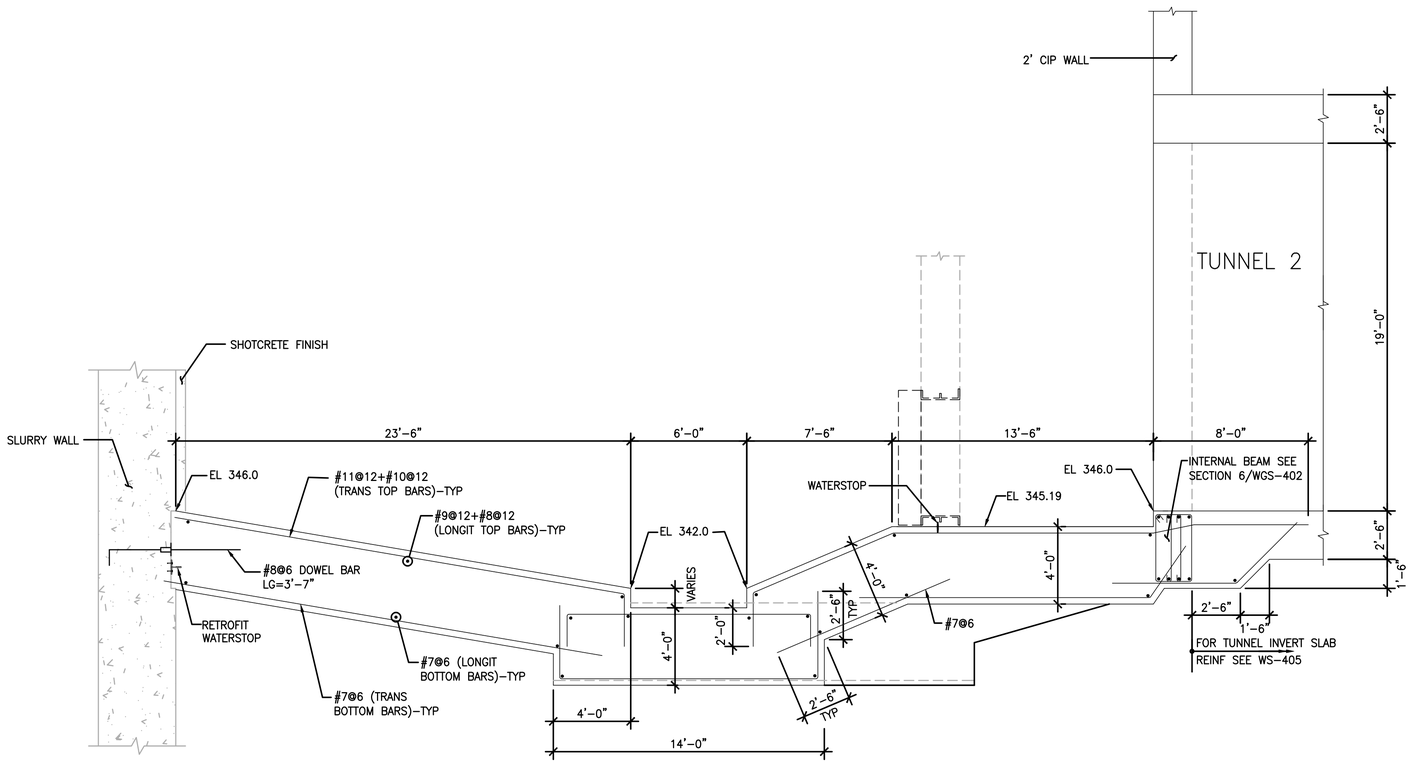
DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK GE CHEN No. 083740 LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER
INVERT SLAB - SECTION 1

CONTRACT No.
SCALE: AS SHOWN
DATE: 10/31/11
DRAWING NO. WS-120



SECTION

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

2 WGS-101A

Environmental Engineering Associates, LLP

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: 05/16 PER: RCF

NOTE:
1. REFER TO STRUCTURAL DRAWINGS FOR REQUIRED DOWELS FOR FUTURE INTERNAL PARTITION WALLS (NOT SHOWN FOR CLARITY).

1/4"=1'-0" SCALE 0 4 8 12 FEET

Jett Industries, Inc.
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DATE:	REVISIONS	No.
03/23/12	CHANGE ORDER NO. 1	4
02/27/12		3
02/06/12		2
12/08/11		1

DESIGNED BY: H. AWAL
DRAWN BY: N. BONDOC
CHECKED BY: M. KIRMANI
APPROVED BY: G. CHEN

STATE OF NEW YORK · GE CHEN · No. 093745 · LICENSED PROFESSIONAL ENGINEER

ONONDAGA COUNTY - DWEP
CLINTON CSO STORAGE FACILITY

WEST CHAMBER
INVERT SLAB - SECTION 2

CONTRACT No.
SCALE: AS SHOWN
DATE: 10/31/11
DRAWING NO. WS-121