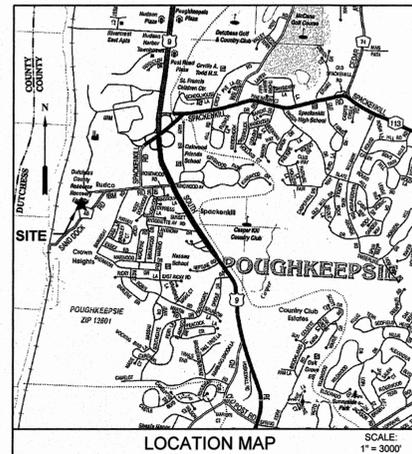


Arlington Wastewater Treatment Plant Upgrade

Town of Poughkeepsie, Dutchess County, New York



Contract No. 14-014 GC General Construction
 Contract No. 14-014 EC Electrical Construction
 Contract No. 14-014 HC HVAC Construction

Date: January 2014
 Revised: March 2015

TOWN SUPERVISOR:
 TODD TANCREDI

TOWN BOARD MEMBERS:
 JON BAISLEY - FIRST WARD
 BILL CARLOS - SECOND WARD
 JOSEPH CONTE - THIRD WARD
 MICHAEL CIFONE - FOURTH WARD
 STEPHEN KRAKOWER - FIFTH WARD
 ANN SHERSHIN - SIXTH WARD

DRAWING LIST

SHEET NO. DRAWING TITLE

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SHEET NO. DRAWING TITLE

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SHEET NO. DRAWING TITLE

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E-5	SLUDGE PUMPING STATION UPPER AND LOWER LEVEL ELECTRICAL PLAN
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5	ISSUED FOR FINAL REVIEW	03/09/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	8/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

TITLE SHEET

MORRIS ASSOCIATES,
 ENGINEERING AND SURVEYING CONSULTANTS, PLLC

9 Elk Lane, Poughkeepsie, New York 12601
 Phone No. (845) 454-3411
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	T-1
		DRAWN BY		
		MA - RJJ/JFL		
		CHECKED BY		

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE PLANS, SPECIFICATIONS OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

CONSTRUCTION NOTES:

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) AFFECTING HIS WORK.
2. THE CONTRACTOR SHALL CONTACT U.F.P.O. PRIOR TO COMMENCING CONSTRUCTION; 1-800-962-7962.
3. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
4. THE CONTRACTORS' ATTENTION IS CALLED TO THE FACT THAT THERE MAY BE SOME UTILITY CONFLICTS. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT.
5. THE CONTRACTOR SHALL PROTECT ALL PROPERTY LINE MONUMENTATION. ANY MONUMENT DISTURBED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE BY A NEW YORK STATE LICENSED LAND SURVEYOR.
6. THE CONTRACTOR SHALL MAINTAIN, AT ALL TIMES, FULL ACCESS TO ALL ROADWAYS, DRIVEWAYS AND PARKING AREAS THROUGHOUT THE SITE.
7. THE CONTRACTOR SHALL NOT STOCKPILE ANY MATERIALS OR CAUSE ANY MATERIALS TO BE PLACED ON ANY ROADWAYS OR PARKING AREAS THROUGHOUT THE SITE. ANY MATERIALS DEPOSITED ON ANY ROADWAYS OR PARKING AREAS SHALL BE REMOVED IMMEDIATELY.
8. CONTRACTOR IS TO GRADE ALL DISTURBED AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
9. THE CONTRACTOR SHALL PROVIDE BARRICADES, INCLUDING TEMPORARY FENCING TO PREVENT UNAUTHORIZED ENTRY TO CONSTRUCTION AREA AND TO PROTECT EXISTING AND NEW FACILITIES FROM DAMAGE BY CONSTRUCTION OPERATIONS OR VANDALISM.
10. ALL EXCAVATIONS SHALL BE BACKFILLED TO FINISHED GRADE OR ADEQUATELY BARRICADED AT THE END OF EACH WORKDAY.
11. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS, INCLUDING LAWNS, LANDSCAPED AREAS, DRIVES, CULVERTS, FENCES, SIGNS, ROCK WALLS, RETAINING WALLS AND OTHER PUBLIC OR PRIVATE PROPERTY TO THEIR PRE-CONSTRUCTION CONDITION UNLESS OTHERWISE REQUIRED BY THESE PLANS AND/OR SPECIFICATIONS.
12. (DELETED)
13. EROSION CONTROL MEASURES SHALL BE REMOVED AND THE DISTURBED AREAS RESTORED TO THEIR PRE-CONSTRUCTION CONDITION WHEN SUCH MEASURES ARE NO LONGER REQUIRED.
14. THE CONTRACTOR SHALL PROTECT EXISTING TREES AND SHRUBS OUTSIDE OF THE CONSTRUCTION EASEMENT FROM DAMAGE DURING CONSTRUCTION.
15. ALL JOINTS AND FITTINGS ON PRESSURE PIPE SHALL BE RESTRAINED ACCORDING TO THE THRUST RESTRAINT NOTES AND DETAILS SPECIFIED ON THESE PLANS AND IN THE SPECIFICATIONS.
16. THE CONTRACTOR IS CAUTIONED THAT THE SITE WILL BE OCCUPIED DURING THE COURSE OF CONSTRUCTION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION DEWATERING AND MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF CONSTRUCTION.
18. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A DETAILED SET OF RECORD DRAWINGS INDICATING THE EXACT LOCATIONS, INCLUDING ELEVATIONS, OF ALL IMPROVEMENTS. A MINIMUM OF TWO (2) THE DISTANCES TO PROMINENT FEATURES SHALL BE PROVIDED TO ALL NEW STRUCTURES, CHANGES IN PIPE AND ELECTRICAL CONDUIT ALIGNMENT (HORIZONTAL AND VERTICAL) AND OTHER PERTINENT FEATURES, TO PERMIT THE LOCATION OF ANY BURIED COMPONENTS. UPON COMPLETION OF CONSTRUCTION, THESE PLANS SHALL BE PROVIDED TO THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE ANY CORRECTIONS OR ADDITIONAL DATA, AS MAY BE REQUIRED, TO THE SATISFACTION OF THE OWNER AND PROJECT ENGINEER. FINAL APPROVAL OF THESE RECORD PLANS BY THE OWNER AND THE PROJECT ENGINEER WILL BE A REQUIREMENT PRIOR TO THE RELEASE OF FINAL PAYMENT.
19. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROLS AS REQUIRED TO PREVENT SOIL EROSION AND SEDIMENTATION, AT NO ADDITIONAL COST TO THE OWNER.
20. PAVEMENT AND SIDEWALKS IN ALL WORK AREAS SHALL BE BROOM CLEANED AT THE END OF EACH WORK DAY.

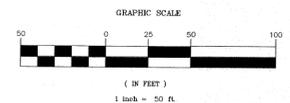
LEGEND

- ===== PROPOSED DRAIN PIPE
- ===== PROPOSED WATER LINE
- S----- PROPOSED SANITARY SEWER PIPE
- ST----- PROPOSED STORM SEWER PIPE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- ⊙ PROPOSED FIRE HYDRANT
- ⊕ PROPOSED WATER VALVE
- ⊙ PROPOSED SEWER MANHOLE
- ⊙ PROPOSED DRAINAGE MANHOLE
- ⊙ PROPOSED CATCH BASIN
- ⊙ PROPOSED RECLAIMED ASPHALT
- ⊙ PROPOSED SPOT ELEVATION
- TW 202.0 PROPOSED SPOT ELEVATIONS AT RETAINING WALL
- FG 200.0 TW - TOP OF WALL
- FG - FINISHED GRADE
- ▨ PROPOSED STRUCTURE
- ▨ PROPOSED SIDEWALK REPLACEMENT
- NO PHYSICAL BOUNDS
- EXISTING TREE LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- OH----- OVERHEAD WIRES
- E----- BURIED WIRES
- G----- EXISTING NATURAL GAS LINE
- W----- EXISTING WATER LINE
- X----- EXISTING WIRE FENCE
- EXISTING CHAINLINK FENCE
- EXISTING STOCKADE FENCE
- ⊙#000 EXISTING UTILITY POLE
- ⊙ EXISTING CATCH BASIN
- ⊕ EXISTING GUY WIRE
- ⊙ EXISTING LIGHT POLE
- ⊙ B-10 SOIL BORING LOCATION / ID

DWG. C-6 / C-8

DWG. C-6 / C-8

1 OVERALL KEY PLAN
C-1 SCALE: 1" = 50'



DWG. C-5 / C-7

DWG. C-5 / C-7

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/29/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	9/30/14	MA
REV. No.	DESCRIPTION	DATE	BY

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

OVERALL KEY PLAN NOTES AND LEGEND

MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elys Lane, Poughkeepsie, New York 12601
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44 Green Street, Hudson, New York 12534
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Fax No. (518) 828-3963

DATE	SCALE	DRAWN BY	CHECKED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	MA - RJJ / JFL	60401.30	C-1

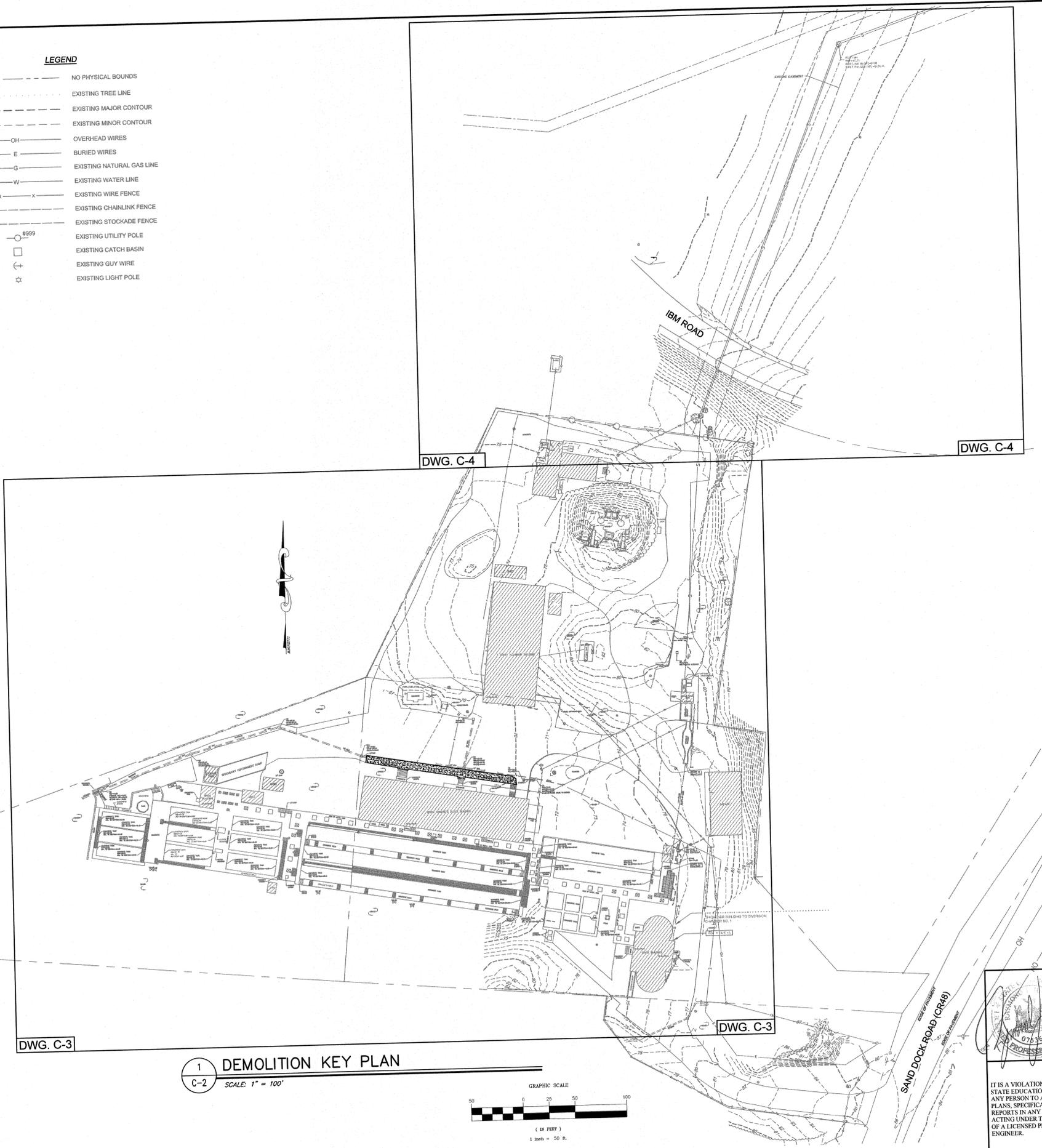
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DEMOLITION NOTES:

1. LOCATION OF EXISTING SITE UTILITIES ARE BASED ON INFORMATION PROVIDED BY OWNER AND ARE FOR ILLUSTRATIVE PURPOSES ONLY. OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE UTILITIES SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MARK OUT OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
2. CONTRACTOR SHALL CONTACT UFPO PRIOR TO COMMENCING CONSTRUCTION.
1-800-962-7962
3. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. EXACT LOCATIONS OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATIONS OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS (THE CONTRACTOR'S) RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK.
4. A MINIMUM OF TEN (10) DAYS PRIOR TO COMMENCEMENT OF THE DEMOLITION WORK, THE CONTRACTOR SHALL SUBMIT A DETAILED DEMOLITION PLAN TO THE ENGINEER FOR REVIEW. NO DEMOLITION WORK WILL BE ALLOWED UNTIL THE PLAN HAS BEEN REVIEWED BY THE ENGINEER.
5. CONTRACTOR SHALL CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT AND OCCUPIED BUILDINGS. THE CONTRACTOR SHALL CEASE OPERATIONS IMMEDIATELY IF ANY STRUCTURE APPEARS TO BE IN DANGER AND NOTIFY ENGINEER. DO NOT RESUME OPERATIONS UNTIL DIRECTED.
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND REQUIREMENTS.
7. THE CONTRACTOR SHALL PROVIDE PROTECTION OF ALL EXISTING FACILITIES AS FOLLOWS:
 - A. PROVIDE ALL MEASURES AS NECESSARY TO PROTECT ADJACENT FACILITIES, WHICH ARE NOT BEING DEMOLISHED. THE CONTRACTOR SHALL RELOCATE ANY FACILITIES, WHICH MAY BE DAMAGED DURING THE WORK. ALL RELOCATED FACILITIES SHALL BE RETURNED TO THEIR ORIGINAL LOCATION UPON COMPLETION OF THE WORK.
 - B. THE CONTRACTOR SHALL PROMPTLY REPAIR ALL DAMAGED FACILITIES AT NO ADDITIONAL COST TO THE OWNER.
 - C. INTERRUPTIONS OF EXISTING UTILITIES AND SERVICES SHALL BE COORDINATED WITH THE OWNER.
 - D. FURNISH ALL SIGNS, LIGHTS, RAILINGS, BARRICADES AND OTHER ITEMS AS NECESSARY TO MEET SAFETY REGULATIONS. ADEQUATE PROTECTION OF PERSONS AND PROPERTY SHALL BE PROVIDED AT ALL TIMES.
 - E. ERECT AND MAINTAIN TEMPORARY PARTITIONS TO PREVENT SPREAD OF DUST, ODORS, AND NOISE TO PERMIT CONTINUED OWNER OCCUPANCY.
 - F. PROVIDE BRACING AND SHORING TO PREVENT MOVEMENT OF STRUCTURES.
 - G. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.
 - H. MARK LOCATION AND TERMINATION OF UTILITIES.
 - I. PROVIDE APPROPRIATE TEMPORARY SIGNAGE INCLUDING SIGNAGE FOR EXIT OR BUILDING EGRESS.
8. DEMOLITION SEQUENCE:
 - A. OBTAIN REQUIRED PERMITS FOR AUTHORITIES.
 - B. DISCONNECT OR RELOCATE AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
 - C. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING SUPPORTING STRUCTURAL MEMBERS.
 - D. REMOVE DEMOLISHED MATERIALS FROM SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT BURN OR BURY MATERIALS ON SITE.
 - E. REMOVE MATERIALS AS WORK PROGRESSES. UPON COMPLETION OF WORK, LEAVE AREAS IN CLEAN CONDITION.
 - F. REMOVE TEMPORARY WORK.
9. THE OWNER SHALL BE GIVEN THE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED MATERIALS. ALL MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE SITE. STORAGE OF THE MATERIALS ON THE SITE WILL NOT BE ALLOWED. SALE OF REMOVED MATERIALS WILL NOT BE PERMITTED AT THE SITE.

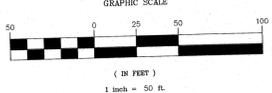
LEGEND

---	NO PHYSICAL BOUNDS
---	EXISTING TREE LINE
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
OH	OVERHEAD WIRES
E	BURIED WIRES
G	EXISTING NATURAL GAS LINE
W	EXISTING WATER LINE
X	EXISTING WIRE FENCE
X	EXISTING CHAINLINK FENCE
X	EXISTING STOCKADE FENCE
⊙	EXISTING UTILITY POLE
⊠	EXISTING CATCH BASIN
+	EXISTING GUY WIRE
*	EXISTING LIGHT POLE



1 DEMOLITION KEY PLAN
C-2

SCALE: 1" = 100'



5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

DEMOLITION KEY PLAN



MORRIS ASSOCIATES,
ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elk Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411
Fax No. (845) 473-1962
44 Green Street, Hudson, New York 12534
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Fax No. (518) 828-3963

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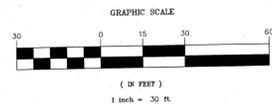
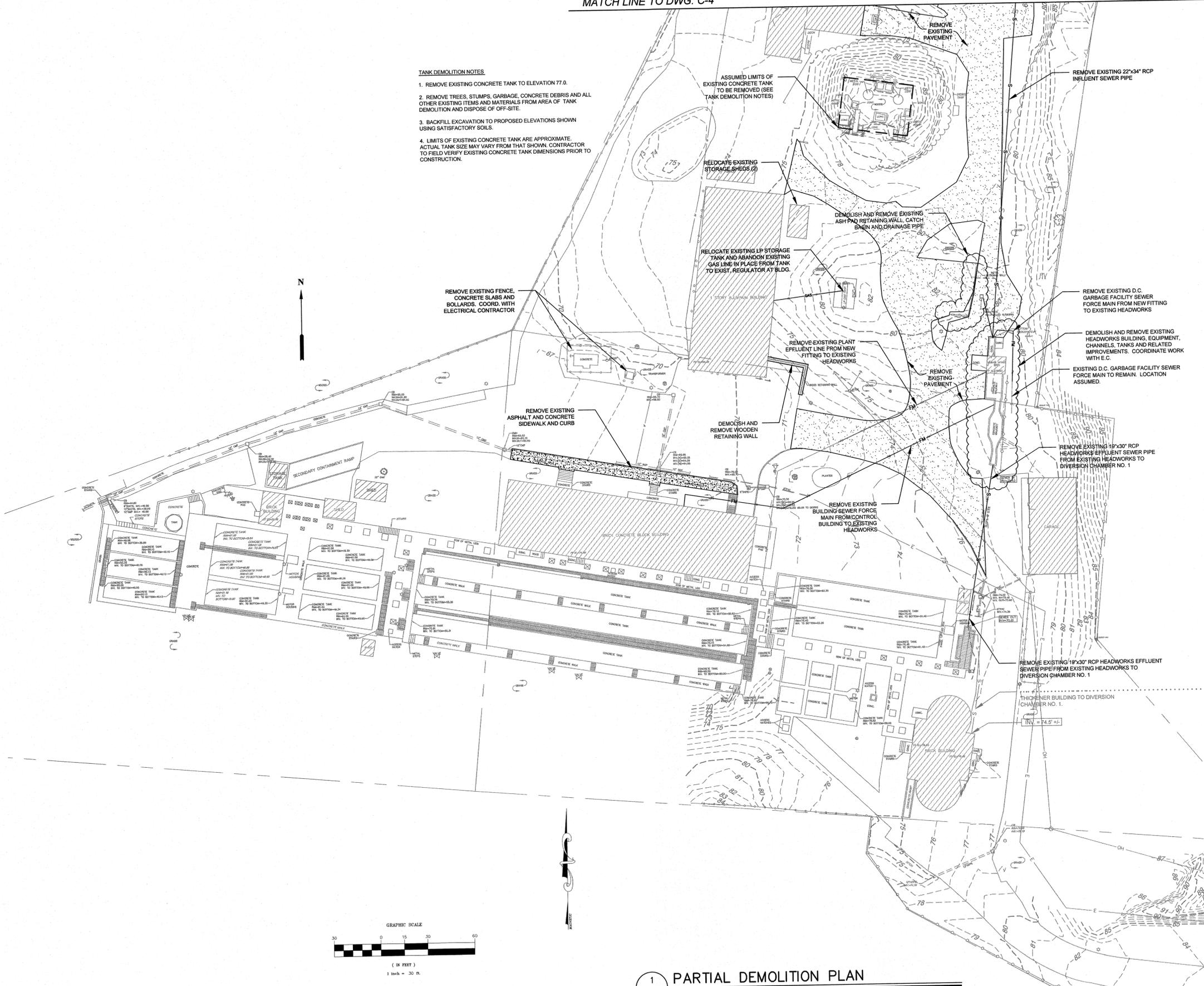
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	C-2
		DRAWN BY: MA		
		CHECKED BY: MA - RJJ/JFL		

MATCH LINE TO DWG. C-4

MATCH LINE TO DWG. C-4

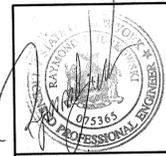
TANK DEMOLITION NOTES

1. REMOVE EXISTING CONCRETE TANK TO ELEVATION 77.0.
2. REMOVE TREES, STUMPS, GARBAGE, CONCRETE DEBRIS AND ALL OTHER EXISTING ITEMS AND MATERIALS FROM AREA OF TANK DEMOLITION AND DISPOSE OF OFF-SITE.
3. BACKFILL EXCAVATION TO PROPOSED ELEVATIONS SHOWN USING SATISFACTORY SOILS.
4. LIMITS OF EXISTING CONCRETE TANK ARE APPROXIMATE. ACTUAL TANK SIZE MAY VARY FROM THAT SHOWN. CONTRACTOR TO FIELD VERIFY EXISTING CONCRETE TANK DIMENSIONS PRIOR TO CONSTRUCTION.



1 PARTIAL DEMOLITION PLAN
C-3 SCALE: 1" = 30'

5	ISSUED FOR FINAL REVIEW	03/09/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



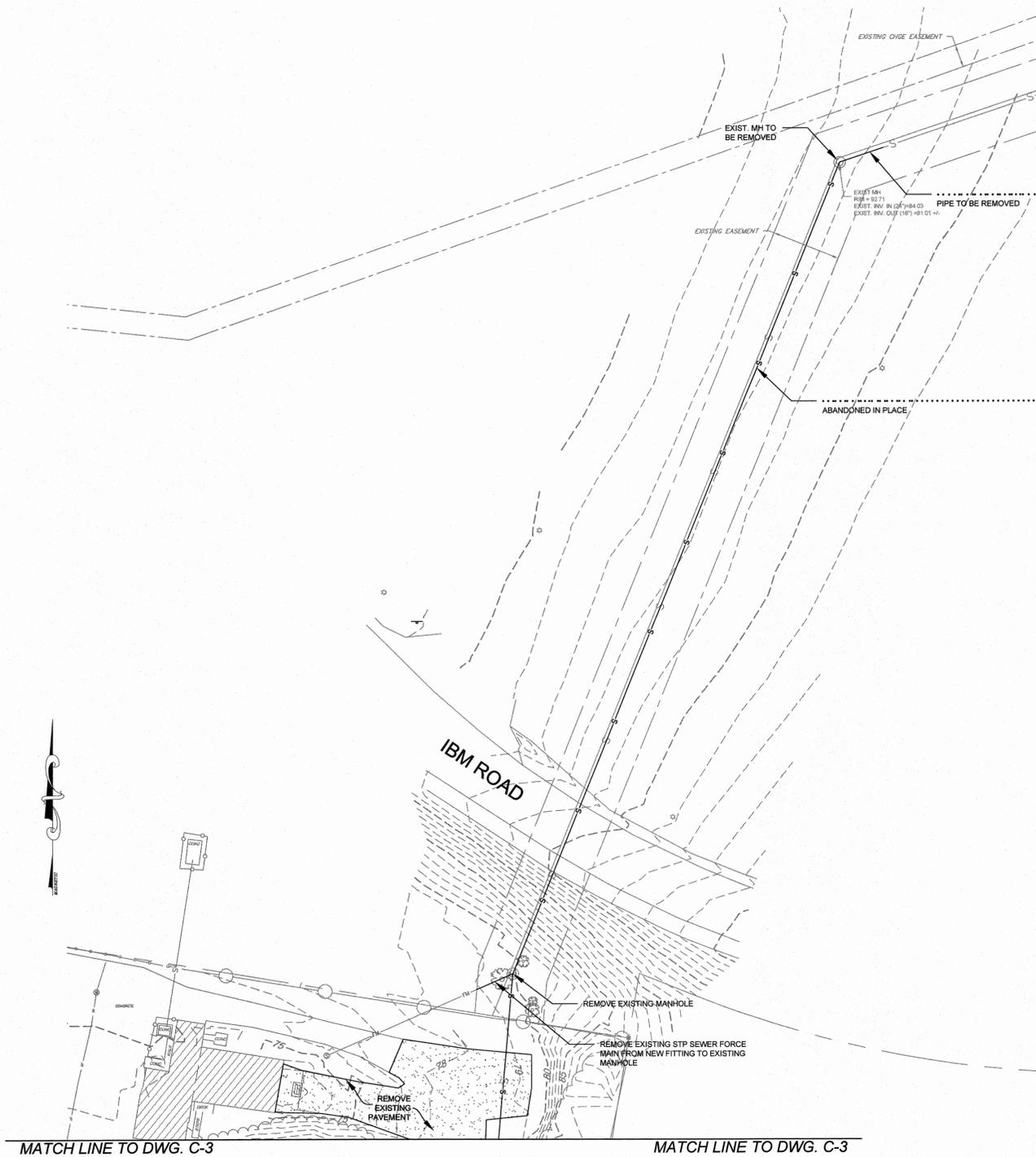
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PARTIAL DEMOLITION PLAN - 1

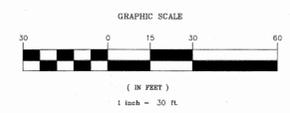
MORRIS ASSOCIATES,
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9 Elks Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411
Fax No. (845) 473-1992
64 Green Street, Hudson, New York 12534
Phone No. (518) 828-2330
Fax No. (518) 828-9963

DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	C-3

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1 PARTIAL DEMOLITION PLAN
 C-4 SCALE: 1" = 30'



5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/29/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	8/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PARTIAL DEMOLITION PLAN - 2

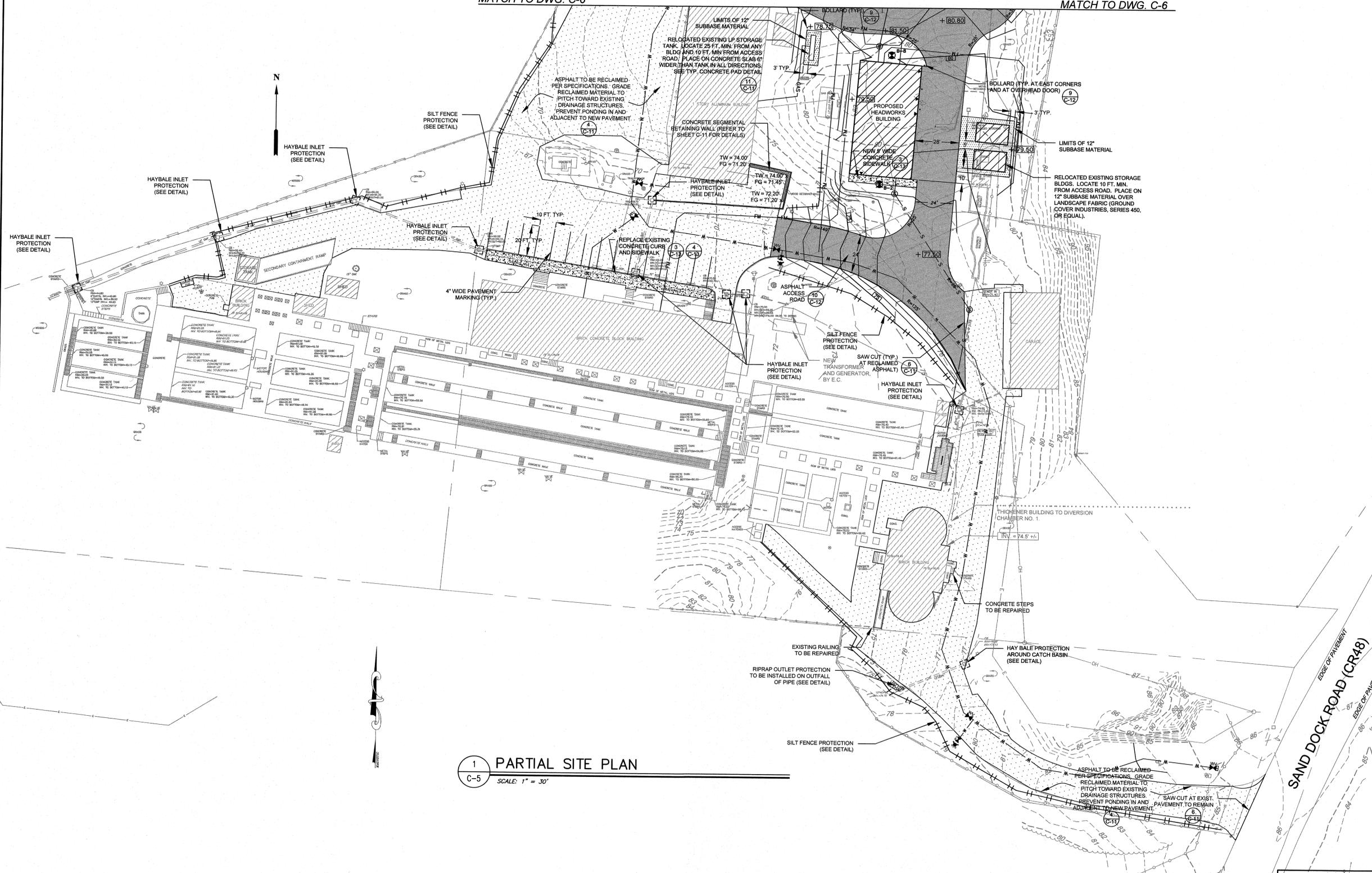
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 9 Elk Lane, Poughkeepsie, New York 12601
 Phone No. (845) 454-3411 Fax No. (845) 473-1962
 44 Green Street, Hudson, New York 12534
 Phone No. (518) 828-2300 Fax No. (518) 828-3963

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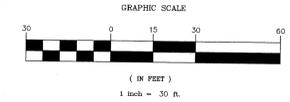
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01/15/14	AS SHOWN	MA - RJJ	60401.30	C-4
		DRAWN BY: MA		
		CHECKED BY: MA - RJJ/JFL		

MATCH TO DWG. C-6

MATCH TO DWG. C-6



1 PARTIAL SITE PLAN
 C-5 SCALE: 1" = 30'



5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



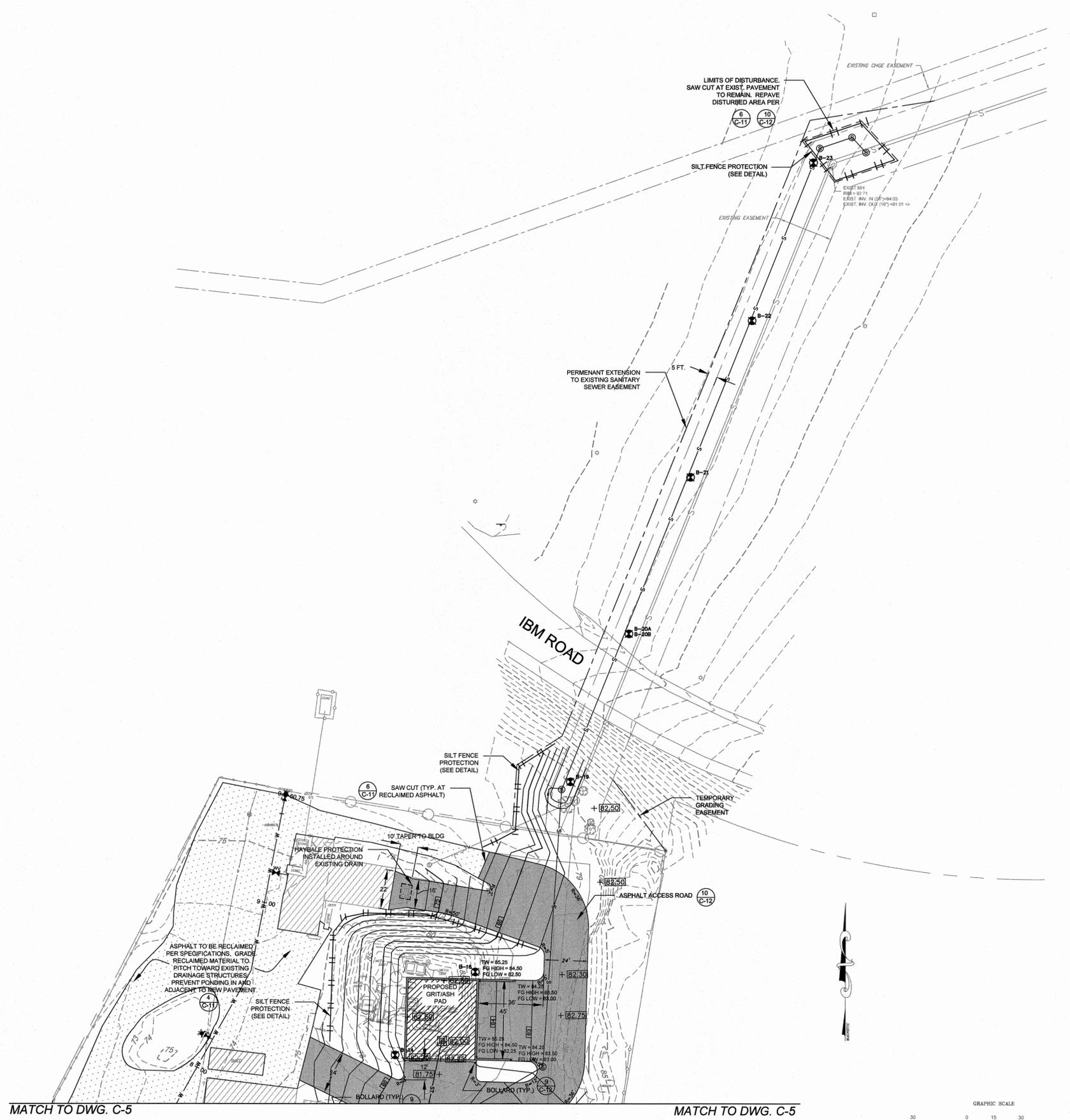
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PARTIAL SITE PLAN - 1

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DATE	SCALE	DRAWN BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	C-5

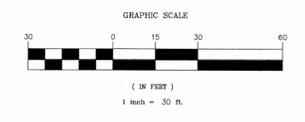
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MATCH TO DWG. C-5

MATCH TO DWG. C-5

1
C-6
PARTIAL SITE PLAN
SCALE: 1" = 30'



5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PARTIAL SITE PLAN - 2

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9 Elks Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411 Fax No. (845) 473-1762

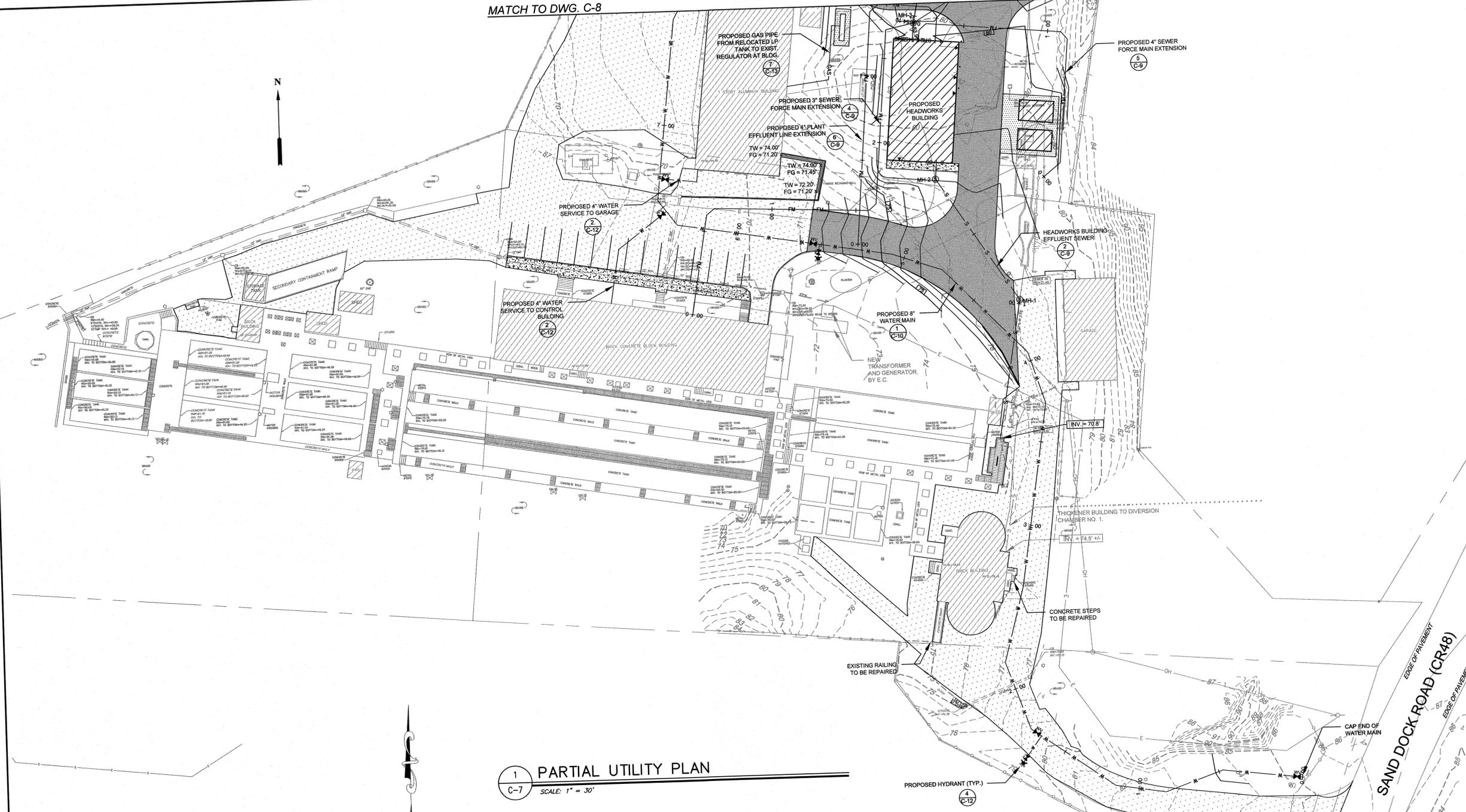
64 Green Street, Hudson, New York 12534
Phone No. (518) 828-2300 Fax No. (518) 828-3963

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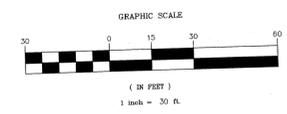
DATE	SCALE	DRAWN BY	CHECKED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	MA - RJJ / JFL	60401.30	C-6

MATCH TO DWG. C-8

MATCH TO DWG. C-8



1 PARTIAL UTILITY PLAN
 C-7 SCALE: 1" = 30'



REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PARTIAL UTILITY PLAN - 1

MORRIS ASSOCIATES,
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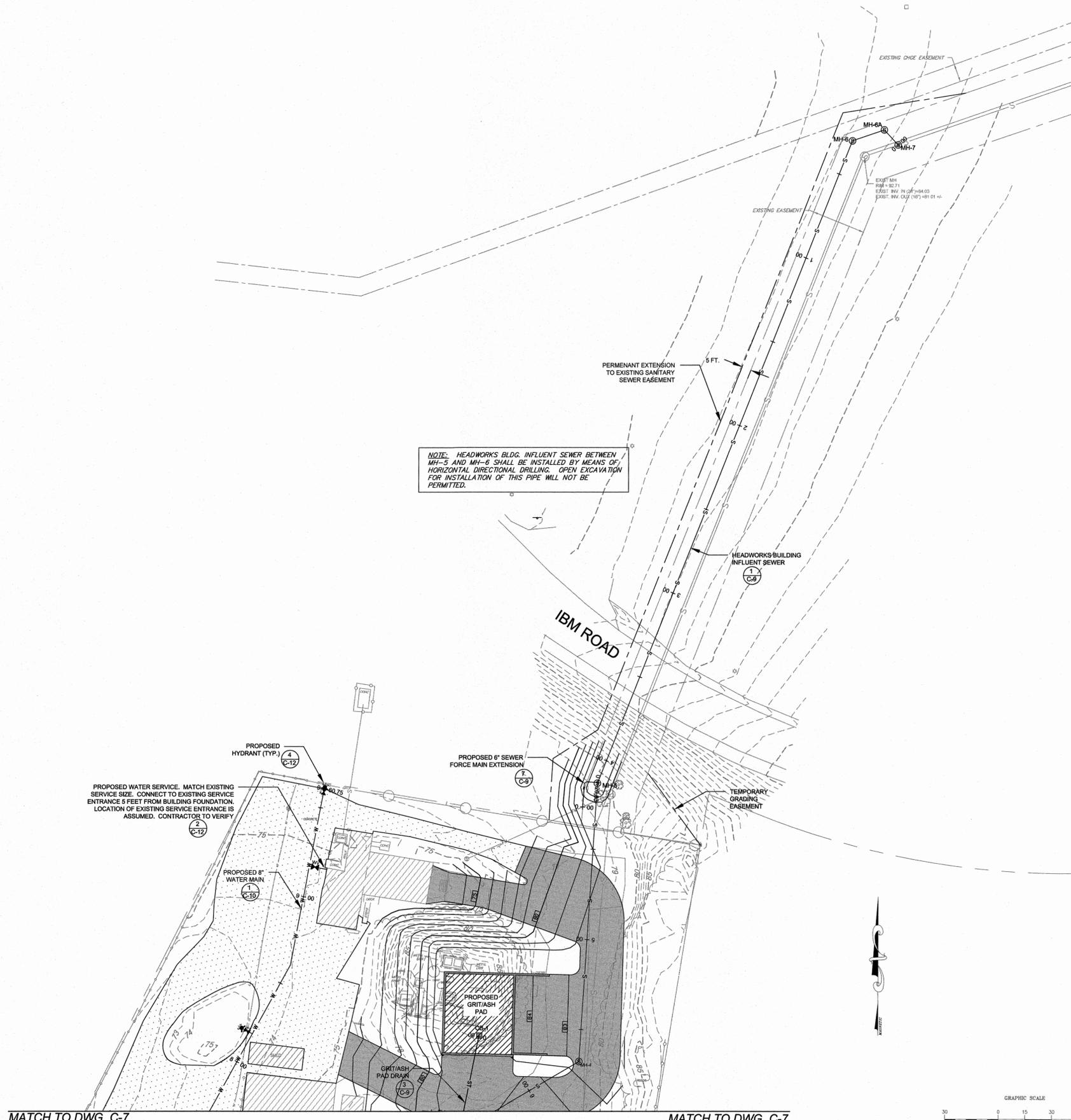
9 Elks Lane, Poughkeepsie, New York 12601
 Phone No. (845) 454-3411
 Fax No. (845) 473-1922

64 Green Street, Hudson, New York 12534
 Phone No. (518) 828-2300
 Fax No. (518) 828-3943

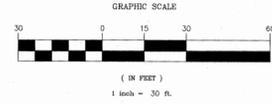
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	C-7



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1 PARTIAL UTILITY PLAN
C-8 SCALE: 1" = 30'



5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

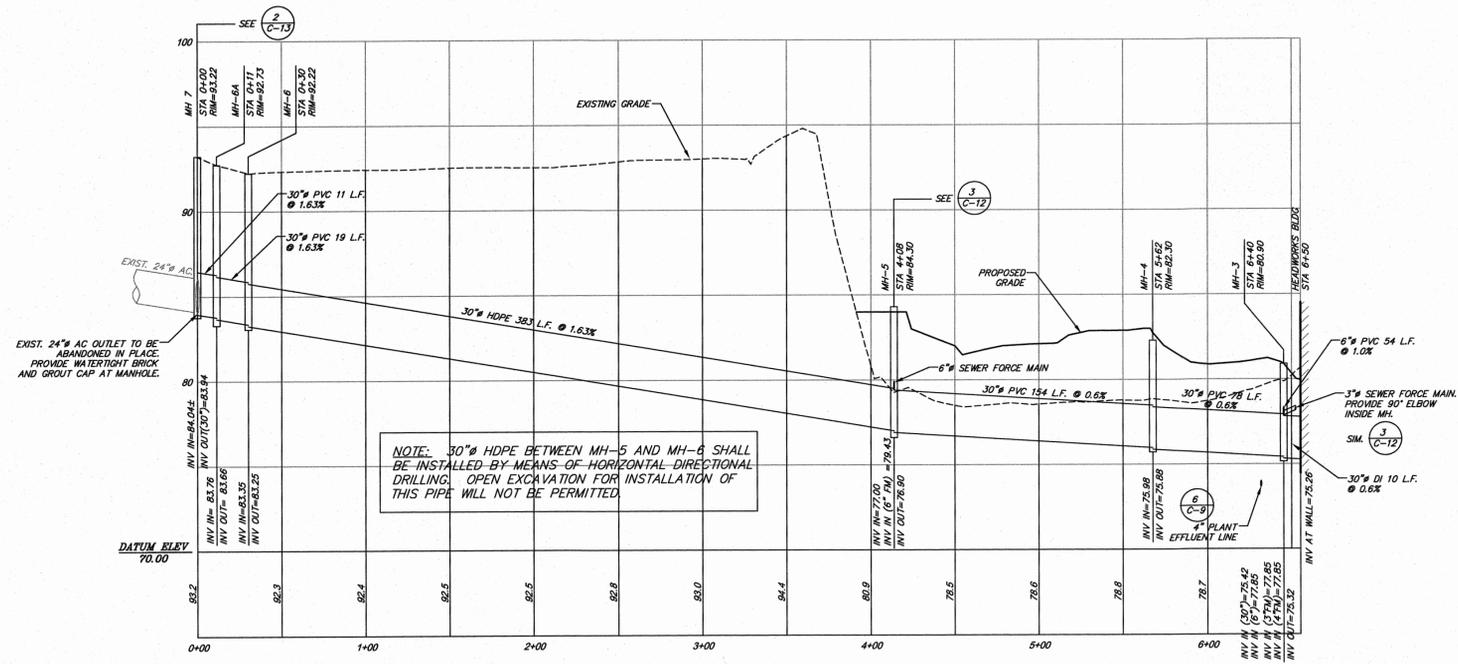
PARTIAL UTILITY PLAN - 2

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9 EKS Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411
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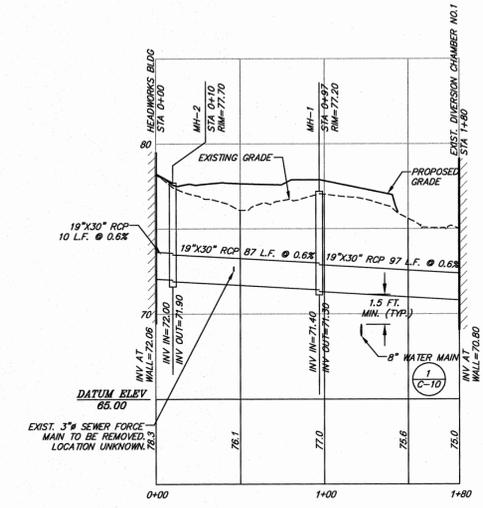
64 Green Street, Hudson, New York 12534
Phone No. (518) 828-2300
Fax No. (518) 828-3963

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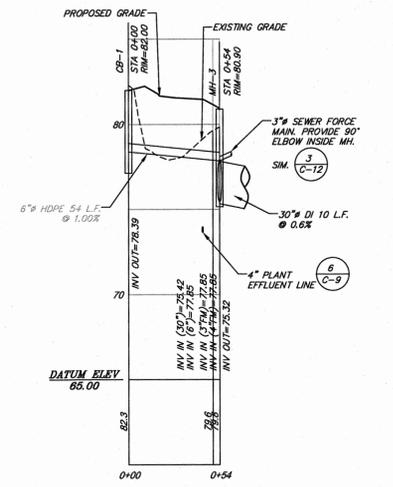
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	C-8
		CHECKED BY		
		MA - RJJ / JFL		



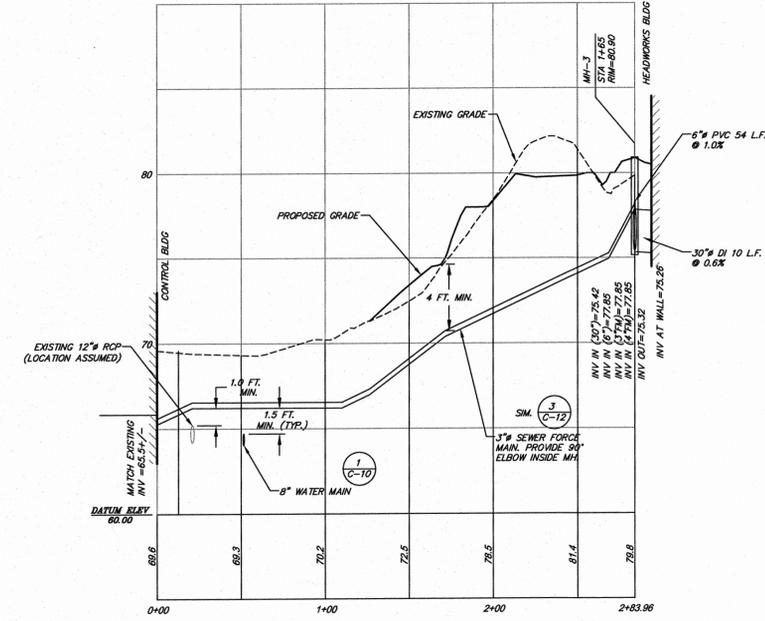
1 HEADWORKS BUILDING INFLUENT SEWER
 C-9 HOR. SCALE: 1" = 50'
 VERT. SCALE: 1" = 5'



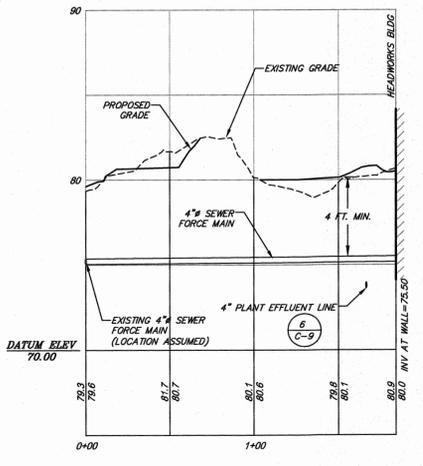
2 HEADWORKS BUILDING EFFLUENT SEWER
 C-9 HOR. SCALE: 1" = 50'
 VERT. SCALE: 1" = 5'



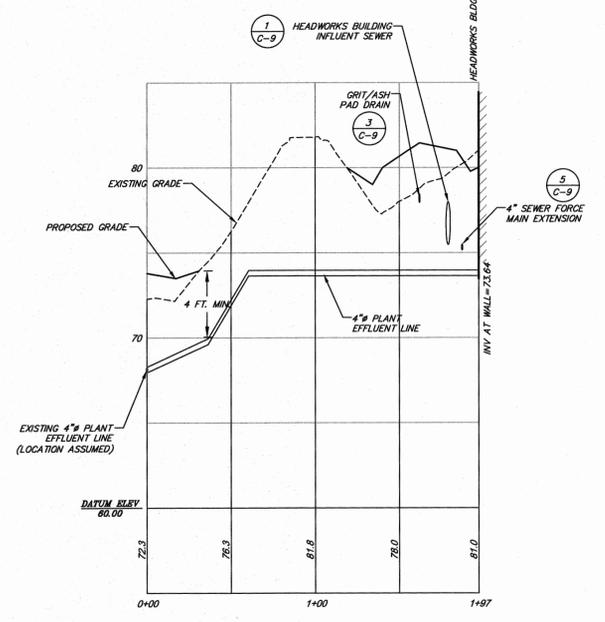
3 GRIT/ASH PAD DRAIN
 C-9 HOR. SCALE: 1" = 50'
 VERT. SCALE: 1" = 5'



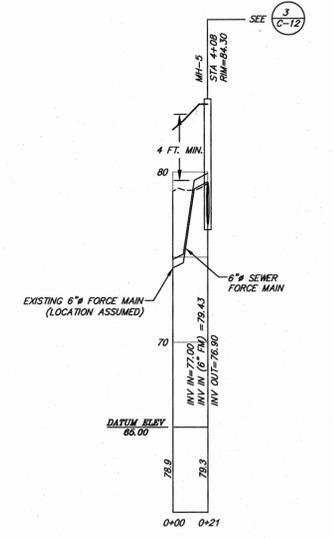
4 3" SEWER FORCE MAIN EXTENSION
 C-9 HOR. SCALE: 1" = 50'
 VERT. SCALE: 1" = 5'



5 4" SEWER FORCE MAIN EXTENSION
 C-9 HOR. SCALE: 1" = 50'
 VERT. SCALE: 1" = 5'



6 4" PLANT EFFLUENT LINE EXTENSION
 C-9 HOR. SCALE: 1" = 50'
 VERT. SCALE: 1" = 5'



7 6" SEWER FORCE MAIN EXTENSION
 C-9 HOR. SCALE: 1" = 50'
 VERT. SCALE: 1" = 5'

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
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1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



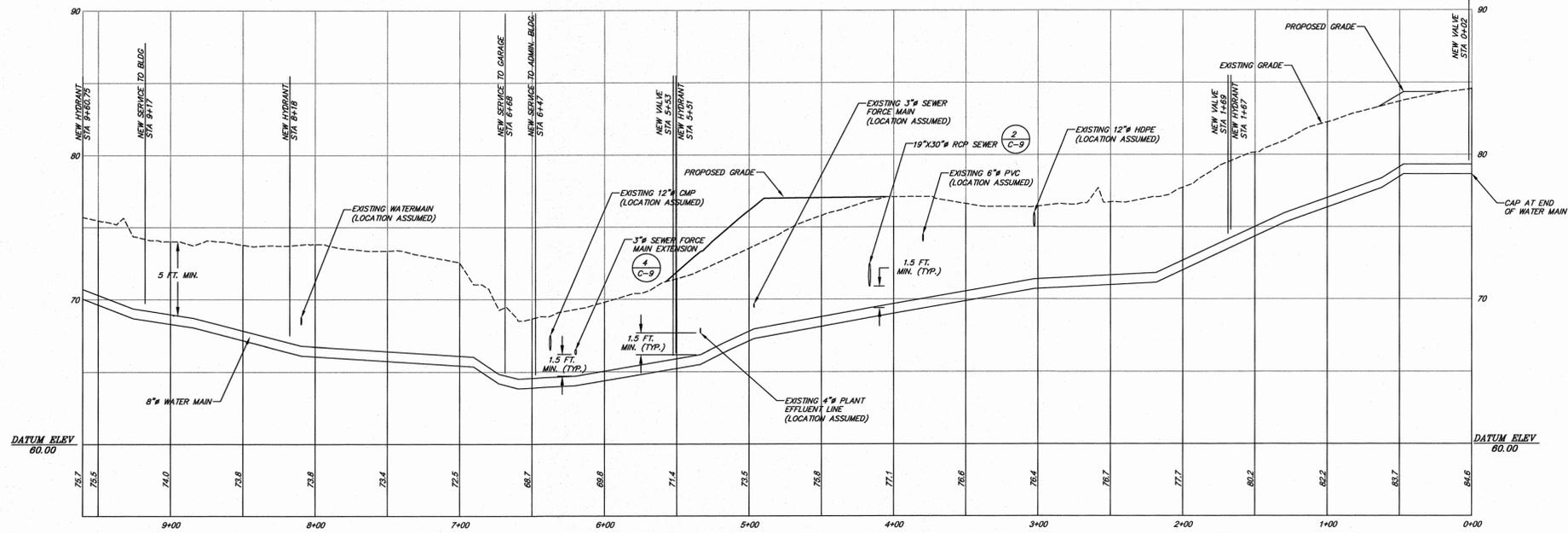
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

SEWER PROFILES

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 64 Green Street Hudson, New York 12534
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	C-9

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1 WATER MAIN PROFILE
 C-10 HOR. SCALE: 1" = 50'
 VERT. SCALE: 1" = 5'

5	ISSUED FOR FINAL REVIEW	03/09/2015	MA
4	ISSUED FOR 90% REVIEW	11/29/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

WATER MAIN PROFILE

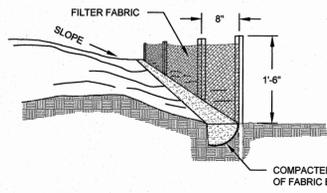
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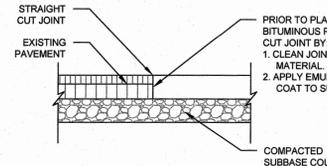
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01/15/14	AS SHOWN	MA - RJJ	60401.30	C-10
		DRAWN BY: MA		
		CHECKED BY: MA - RJJ/JFL		

SOIL EROSION AND SEDIMENT CONTROL NOTES:

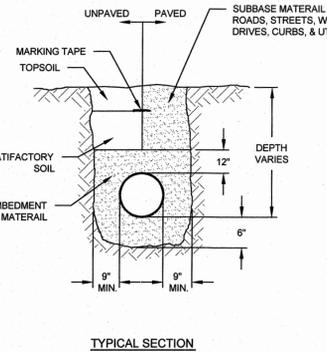
- ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STATE SOIL EROSION AND SEDIMENT CONTROL (2005), AS PUBLISHED BY THE NEW YORK STATE SOIL AND WATER CONSERVATION SOCIETY AND RECOMMENDED BY THE U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE (REFERRED TO IN REMAINING TEXT AS "THE NEW YORK GUIDELINES").
- ANY DISTURBED AREA THAT WILL BE LEFT UNDISTURBED FOR MORE THAN 21 DAYS, AND ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL BE SEEDED AND MULCHED WITHIN 14 DAYS OF THE LAST DISTURBANCE WITH TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS SHALL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL. THE SEEDING SHALL BE DONE IN ACCORDANCE WITH THE NEW YORK GUIDELINES, AS FOLLOWS:
 - SEED: ANNUAL RYE GRASS APPLIED AT A RATE OF 30 LBS PER ACRE OTHER SELECT MIXTURE AS DESCRIBED IN THE NEW YORK GUIDELINES.
 - IF: SPRING, SUMMER OR EARLY FALL SEED WITH RYE GRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE.
 - IF: LATE FALL OR EARLY WINTER SEED WITH CERTIFIED "ARJOSTOOK" WINTER RYE, AT 100 LBS. (CEREAL RYE) PER ACRE.
- MULCH: OLD HAY OR SMALL GRAIN STRAW APPLIED AT A RATE OF NINETY (90) POUNDS PER ONE THOUSAND SQUARE FT. OR TWO TONS PER ACRE. TO BE APPLIED AND ANCHORED ACCORDING TO THE NEW YORK GUIDELINES. WOODFIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- IN AREAS OF SLOPES STEEPER THAN ONE ON TWO, JUTE MATTING SHALL BE USED TO STABILIZE SEEDED AND/OR PLANTED AREAS. JUTE MATTING SHALL BE INSTALLED AND ANCHORED IN ACCORDANCE WITH THE NEW YORK GUIDELINES.
- ANY GRADED AREAS NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL, WITHIN FIVE (5) DAYS AFTER FINAL GRADING, RECEIVE PERMANENT VEGETATIVE COVER IN COMBINATION WITH A SUITABLE MULCH AS FOLLOWS:
 - STEEP OR EROSION SLOPES GREATER THAN 2:1 (H:V) REFER TO PERMANENT CRITICAL AREA PLANNING GUIDELINES.
 - RECREATIONAL AREAS AND LAWN REFER TO RECREATIONAL AREA IMPROVEMENT NOTES.
- SLOPES STEEPER THAN ONE ON THREE SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
- PAVED ROADWAYS SHALL BE KEPT CLEAR AT ALL TIMES.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAIN SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION OR SEDIMENT CONTROL FACILITIES. EXCEPT FOR MINOR PERIMETER EMBANKMENT AREAS, ALL GRADE AREA SHALL BE DIRECTED THROUGH ONE OF THE SEDIMENT BARRIERS. DIVERSION SWALES MAY BE USED TO DIRECT DRAINAGE RUNOFF UNTIL PERMANENT STORM DRAINAGE SYSTEM IS IN PLACE.
- DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS.
- STOCKPILES SHALL NOT BE LOCATED WITHIN FIFTY FEET (50') OF ROADWAYS OR DRAINAGE FACILITIES. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY A SILT FENCE, HAY BALES BARRIER OR COMBINATION OF BOTH.
- SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAIN BY THE CONTRACTOR ON A DAILY BASIS TO ENSURE THAT TEMPORARY AND PERMANENT DITCHES, PIPES AND STRUCTURES ARE CLEAR OF DEBRIS, THAT EMBANKMENTS AND BERMS ARE NOT BREACHED, AND THAT ALL BARRIERS ARE INTACT.
- MANDATORY STORMWATER INSPECTIONS SHALL BE PERFORMED WEEKLY AND WITHIN 24 HOURS OF ANY PRECIPITATION EVENT PRODUCING MORE THAN 1/2" OF PRECIPITATION OVER AND 24 HOUR PERIOD. INSPECTIONS ARE TO BE PERFORMED BY A LICENSED CERTIFIED PROFESSIONAL.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE SITE WORK BY THE OWNER. UPON CERTIFICATION OF FINAL ACCEPTANCE, THE OWNER WILL ASSUME RESPONSIBILITY FOR THE CONTINUED MAINTENANCE OR PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- ALL DRAINAGE OUTLETS AND INLETS SHALL BE LINED WITH STONE RIP-RIP AS SPECIFIED ON THE PLANS AND/OR PER ENGINEER.
- THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES.



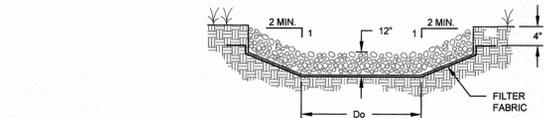
1 TYPICAL SILT FENCE DETAIL
C-11 N.T.S.



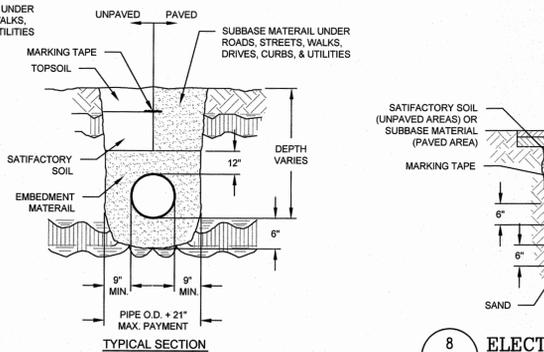
6 SAWCUT DETAIL
C-11 N.T.S.



7 TRENCH & BACKFILLING DETAIL
C-11 N.T.S.



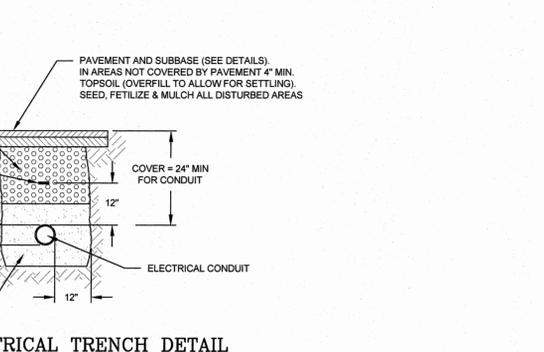
2 RIP-RAP OUTLET PROTECTION
C-11 N.T.S.



8 ELECTRICAL TRENCH DETAIL
C-11 N.T.S.



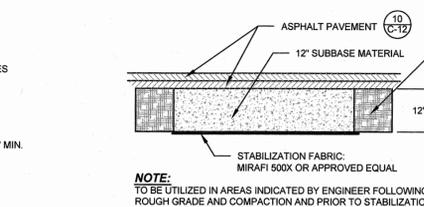
3 TYPICAL BALED FILTER DETAIL
C-11 N.T.S.



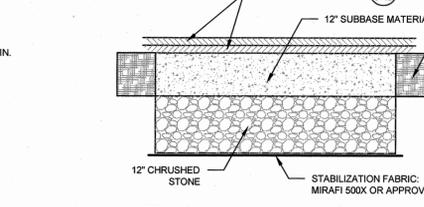
12 CONCRETE SEGMENTAL RETAINING WALL TYPICAL SLOPED WALL DETAIL
C-11 N.T.S.

ASPHALT RECLAMATION NOTES (FOAMED ASPHALT STABILIZATION):

- THE CONTRACTOR SHALL TAKE SAMPLES OF RECLAIMED MATERIAL PRIOR TO THE START OF RECLAMATION OPERATIONS. FROM THESE SAMPLES A MIX DESIGN WILL BE DEVELOPED.
- RECLAMATION DEPTH WILL BE A MINIMUM OF 12" ROUGH GRADE AND COMPACT RECLAIMED MATERIAL FOLLOWING RECLAMATION. IF SOFT SPOTS DEVELOP OF THE RECLAIMED MATERIAL SHALL BE REMOVED, STABILIZATION FABRIC PLACED AND NEW MATERIAL PLACED PER THE PAVEMENT REPLACEMENT DETAIL #1 OR #2 AS DETERMINED BY THE ENGINEER.
- FOLLOWING ROUGH GRADE, COMPACT AND REQUIRED RECLAMATION. THE MATERIAL SHALL BE REPERFORATED TO A MINIMUM DEPTH OF 6" AND STABILIZED WITH FOAMED ASPHALT (SEE SPECIFICATIONS). FINE GRADING SHALL THEN BE CONDUCTED PRIOR TO ASPHALT PAVING.

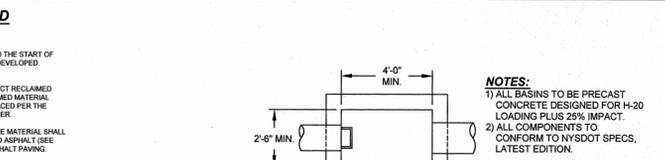


PAVEMENT REPLACEMENT DETAIL (1)
C-11 N.T.S.



PAVEMENT REPLACEMENT DETAIL (2)
C-11 N.T.S.

4 RECLAMATION DETAIL
C-11 N.T.S.



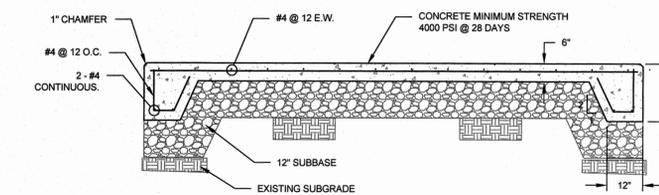
5 TYPICAL CATCH BASIN DETAIL
C-11 N.T.S.

PERMANENT SEEDING:

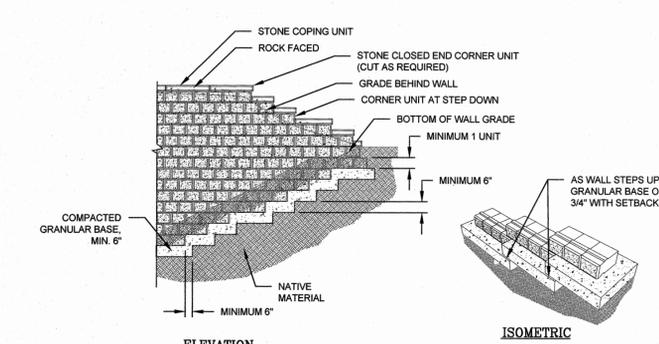
ALL AREAS NOT SPECIFIED WITH GRAVEL, CONCRETE OR ASPHALT COVER IS TO BE SEEDED WITH A PERMANENT SEED MIXTURE IN ACCORDANCE WITH THE FOLLOWING:

- SEEDING:**
- SHALL BE DONE BETWEEN MARCH 15 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1, EXCEPT OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
- FERTILIZER:**
- COMMERCIAL (5-10-5) INORGANIC OR ORGANIC, CONTAINING NOT LESS THAN 5 PERCENT NITROGEN, 10 PERCENT AVAILABLE PHOSPHORIC ACID AND 5 PERCENT WATER SOLUBLE POTASH.
 - OTHER FERTILIZERS WITH A 1-2-1 RATIO SUCH AS 10-20-10 OR 5-10-5 MAY BE SUBSTITUTED FOR ABOVE.
 - APPLY 5-10-5 EVENLY AT A RATE OF 40 POUNDS PER 1000 SQ. FT. OR 2 POUNDS OF NITROGEN PER 1000 SQ. FT.
- MULCH:**
- OLD HAY OR SMALL GRAIN STRAW APPLIED AT A RATE OF NINETY (90) POUNDS PER ONE THOUSAND SQUARE FT. OR TWO TONS PER ACRE. WOODFIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- SEED:**
- APPLICATION RATE:
 - STANDARD MIXTURE: 3 POUNDS PER 1000 SQ. FT.
 - SPECIAL MIXTURE: 5 POUNDS PER 1000 SQ. FT.
 - HYDROSEEDING:
 - APPLY SEEDING MATERIALS BY AN APPROVED HYDROSEEDER.
 - DISTRIBUTE UNIFORMLY A SLURRY MIXTURE OF WATER, SEED, FERTILIZER, AND MULCH AT A MINIMUM RATE OF 57 GALLONS PER 1000 SQ. FT.
 - DRY APPLICATION:
 - SOW SEED EVENLY BY HAND OR SEED SPREADER ON DRY OR MODERATELY DRY SOIL.
 - PROVIDE THE FOLLOWING SEED MIXTURE:

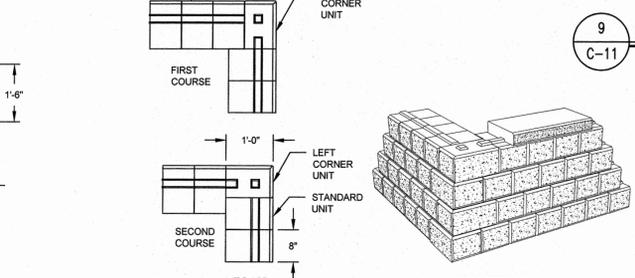
AMOUNT BY MIXTURE	SPECIES	PERCENTAGE	
		PURITY	GERMINATION
55% MIN	KENTUCKY BLUEGRASS	95%	80%
25% MIN	RED FESCUE	97%	80%
20% MIN	PERENNIAL RYE	98%	85%



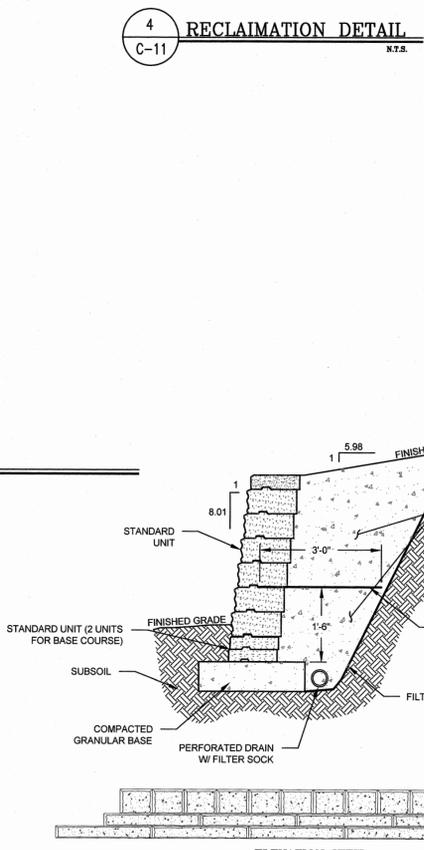
11 TYPICAL CONCRETE PAD DETAIL
C-11 N.T.S.



14 CONCRETE SEGMENTAL RETAINING WALL TYPICAL SLOPED WALL DETAIL
C-11 N.T.S.



15 CONCRETE SEGMENTAL RETAINING WALL ABUTTING EXISTING STRUCTURE DETAIL
C-11 N.T.S.



13 CONCRETE SEGMENTAL RETAINING WALL DETAIL
C-11 N.T.S.

NOTES:

- DUE TO THE WIDTH (FACE WIDTH) OF THE PISA STONE STANDARD UNIT, IT IS EASIER TO LEVEL ON THE COMPACTED GRANULAR BASE AS A RESULT, THE STONE IS COMMONLY USED AS THE BASE COURSE IN INSTALLATIONS.
- THE METHOD DESCRIBED ABOVE IS IDEAL FOR STRAIGHT WALL. FOR CURVED APPLICATIONS IT IS NECESSARY TO USE THE PISA STONE CORNER UNIT AS THE BASE COURSE. THE ABSENCE OF THE TONGUE ALLOWS THE TAPERED BLOCKS TO CURVE AS REQUIRED.

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/09/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	8/30/14	MA

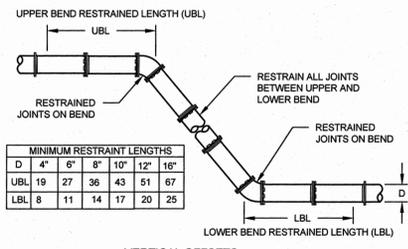
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

MISCELLANEOUS DETAILS - 1

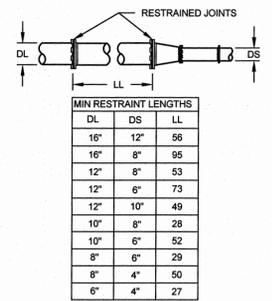
MORRIS ASSOCIATES,
ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elks Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411 Fax No. (845) 473-1962
44 Green Street, Hudson, New York 12534
Phone No. (518) 828-2300 Fax No. (518) 828-3943

DATE	SCALE	DRAWN BY	FILE No.
01/15/14	AS SHOWN	MA - RJJ	60401.30

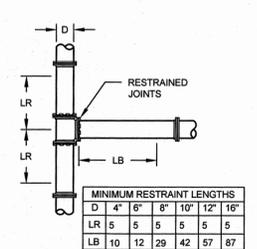
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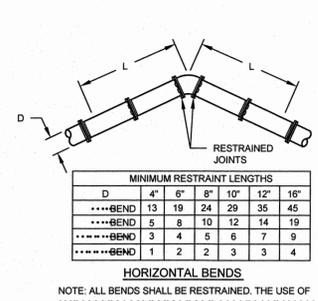
VERTICAL OFFSETS
NOTE: VERTICAL OFFSETS SHALL NOT EXCEED



REDUCER
NOTE: ALL REDUCERS SHALL BE RESTRAINED



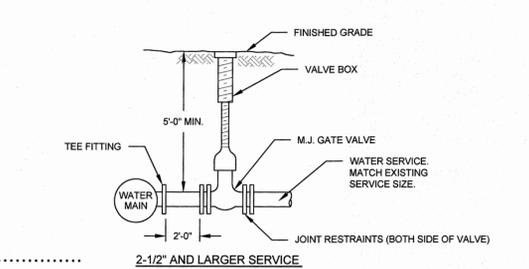
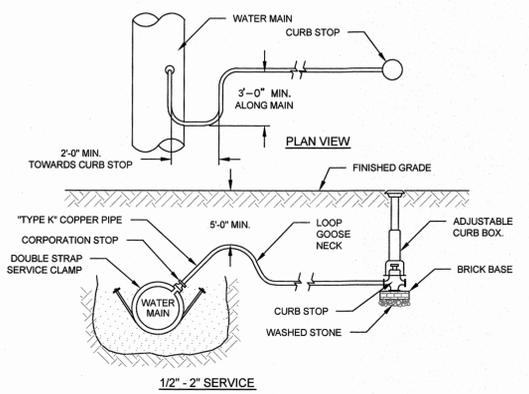
TEES
NOTE: ALL TEES SHALL BE RESTRAINED THE LARGEST DIAMETER PIPE SIZE SHALL APPLY FOR ALL REDUCING TEES



HORIZONTAL BENDS
NOTE: ALL BENDS SHALL BE RESTRAINED. THE USE OF

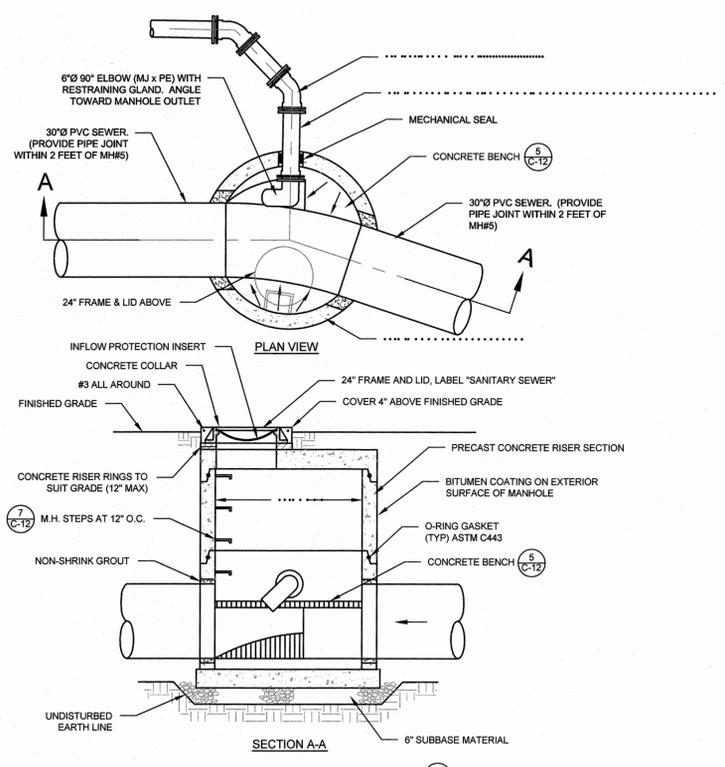
NOTE: ALL RESTRAINED LENGTHS IN FEET.

1 FORCE MAIN RESTRAINT DETAIL
C-12 N.T.S.



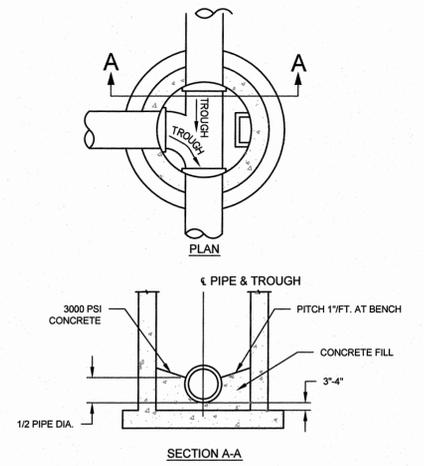
NOTE: CURB STOP/VALVE TO BE LOCATED 5 FEET FROM WATER MAIN

2 WATER SERVICE CONNECTION DETAIL
C-12 N.T.S.

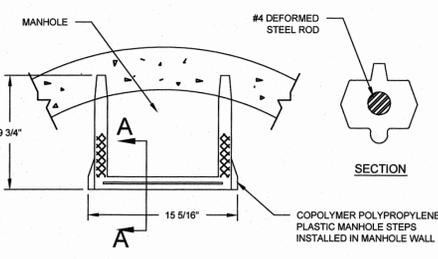


NOTE: REFER TO DETAIL FOR BACKFILL REQUIREMENTS

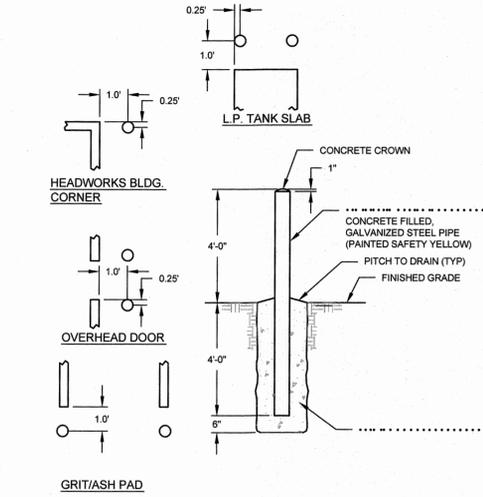
3 MANHOLE MH-5 DETAIL
C-12 N.T.S.



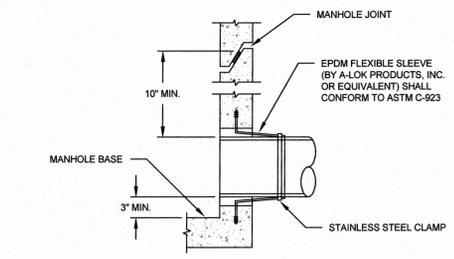
5 MANHOLE BENCH DETAIL
C-12 N.T.S.



7 MANHOLE STEP DETAIL
C-12 N.T.S.

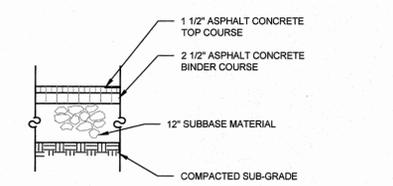


9 TYPICAL BOLLARD DETAIL
C-12 N.T.S.

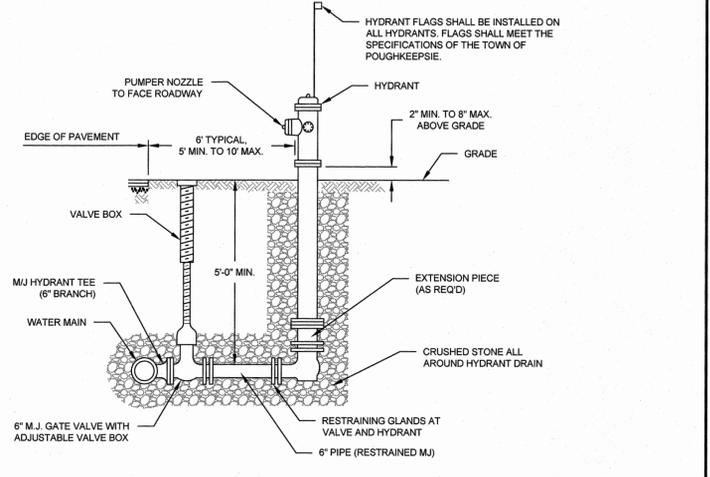


6 FLEXIBLE CONNECTION AT MANHOLE
C-12 N.T.S.

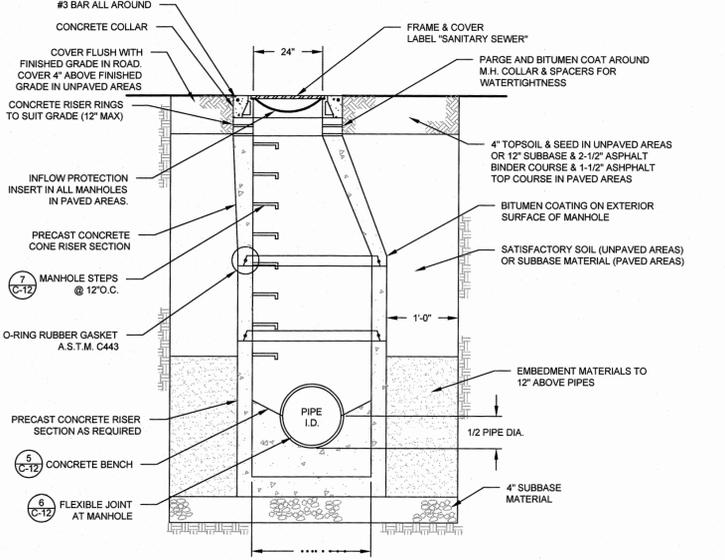
8 (DELETED)
C-12 N.T.S.



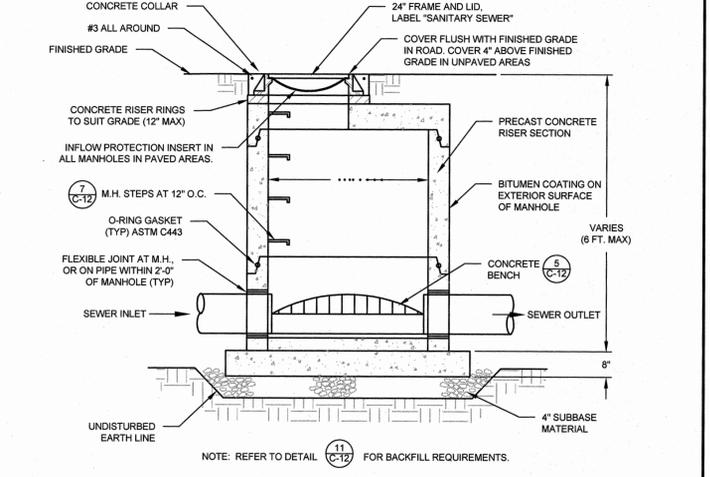
10 PAVEMENT DETAIL
C-12 N.T.S.



4 HYDRANT DETAIL
C-12 N.T.S.



11 SANITARY SEWER MANHOLE DETAIL
C-12 N.T.S. (DROP 2'-0" OR LESS AND TOTAL MH DEPTH = 6 FT.)



12 SANITARY SEWER MANHOLE DETAIL
C-12 N.T.S. (FULL SECTION MANHOLES < 6 FT. DEEP)

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1	ISSUED FOR 30% REVIEW	6/30/14	MA

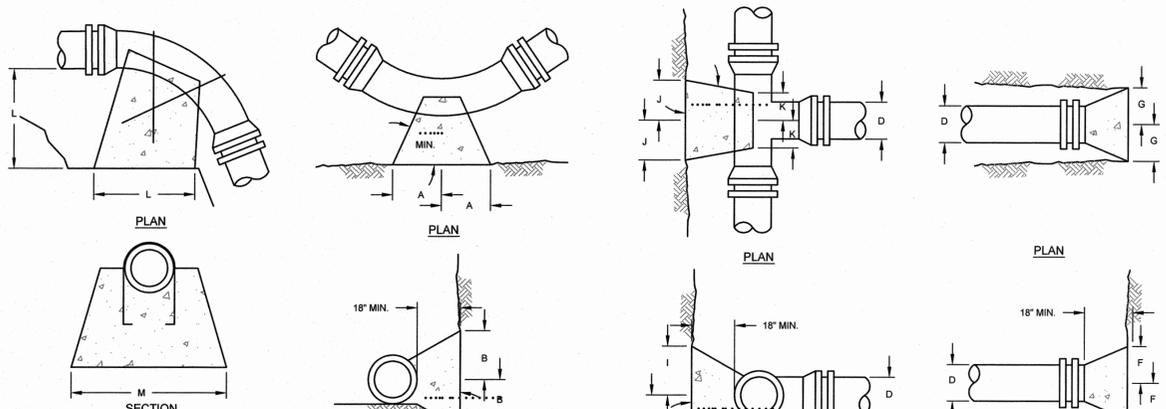
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

MISCELLANEOUS DETAILS - 2

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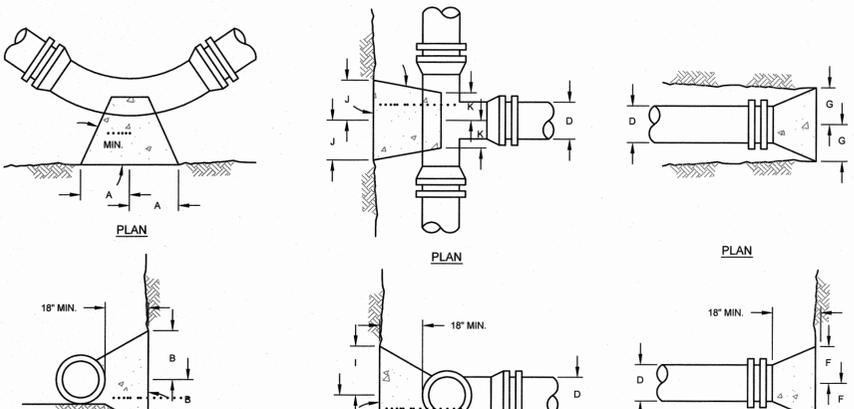
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DATE	SCALE	DESIGNED BY	FILE No.
01/15/14	AS SHOWN	MA - RJJ	60401.30
		DRAWN BY	DRAWING No.
		MA - RJJ/JFL	C-12



BEND	D	3/4"	6"	8"	12"
L	24"	30"	36"	48"	54"
M	30"	36"	48"	54"	72"
WDL, CF	10	22.5	36	72	
ROD	#4	#4	#4	#5	
EMBED	12"	12"	12"	12"	
L	30"	40"	48"	60"	
M	36"	40"	54"	66"	
VOL. CF	22.5	42.8	72	137.5	
ROD	#4	#4	#5	#6	
EMBED	12"	12"	12"	12"	
L	36"	48"	60"	78"	
M	48"	54"	60"	78"	
VOL. CF	36	72	125	274.6	
ROD	#4	#5	#6	#6	
EMBED	12"	12"	12"	12"	

VERTICAL DOWNWARD BENDS (GRAVITY BLOCKS)



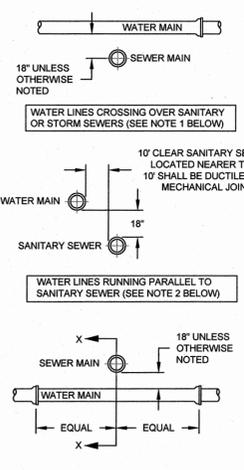
BEND	D	3/4"	6"	8"	12"
A	6"	9"	12"	18"	
B	8"	9"	10"	16"	
C	8"	11"	13"	17"	
D	12"	12"	16"	25"	

HORIZONTAL & VERTICAL UPWARD BENDS

THRUST BLOCKS SHALL BE USED ONLY WHERE INSUFFICIENT LENGTH IS AVAILABLE TO RESTRAIN PIPE JOINTS.

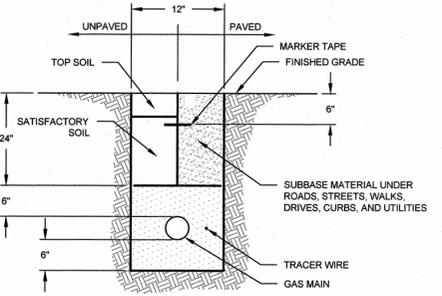


1 THRUST BLOCK DETAIL C-13 N.T.S.

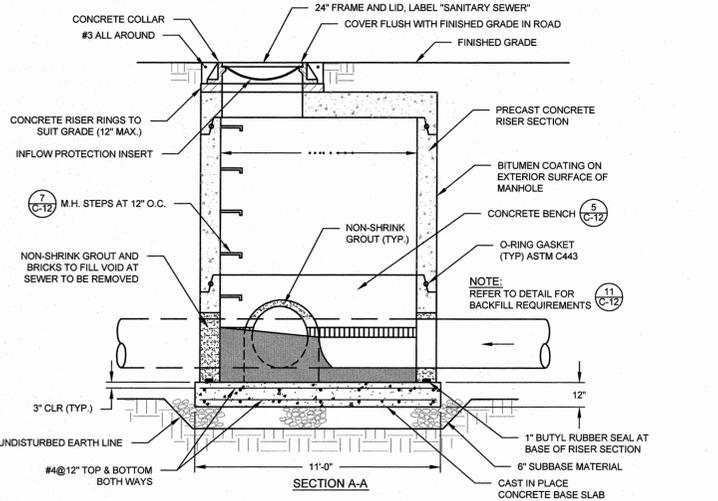
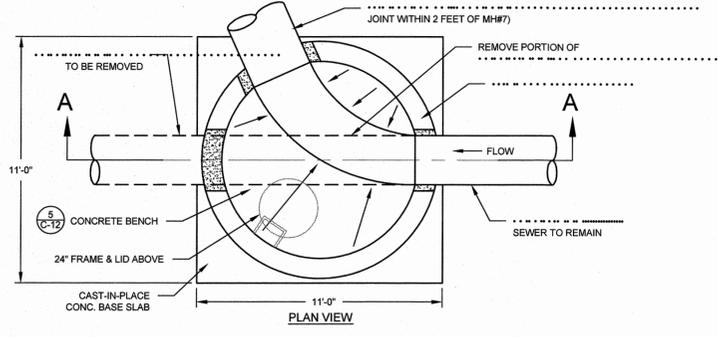


- GENERAL NOTES:
- WATER LINES CROSSING OVER SANITARY OR STORM SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18 INCHES FROM TOP OF SEWER TO BOTTOM OF WATER LINE.
 - WATER LINES RUNNING PARALLEL TO SANITARY SEWERS SHALL MAINTAIN A VERTICAL SEPARATION OF 18 INCHES ABOVE THE SEWER AND A HORIZONTAL SEPARATION OF 10 FEET FROM THE SEWER. SANITARY SEWERS LOCATED NEARER THAN THIS MINIMUM SEPARATION REQUIREMENT SHALL BE CAST-IRON MECHANICAL JOINT.
 - WATER LINES CROSSING UNDER SANITARY OR STORM SEWERS SHALL HAVE:
 - A MINIMUM VERTICAL SEPARATION OF 18 INCHES FROM TOP OF WATER LINE TO BOTTOM OF SEWER (UNLESS SHOWN OTHERWISE).
 - ADDITIONAL STRUCTURAL SUPPORT FOR THE SEWER TO PREVENT SEWER DEFLECTION.
 - THE 18 FEET LENGTH OF WATER PIPE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT FROM THE SEWER.

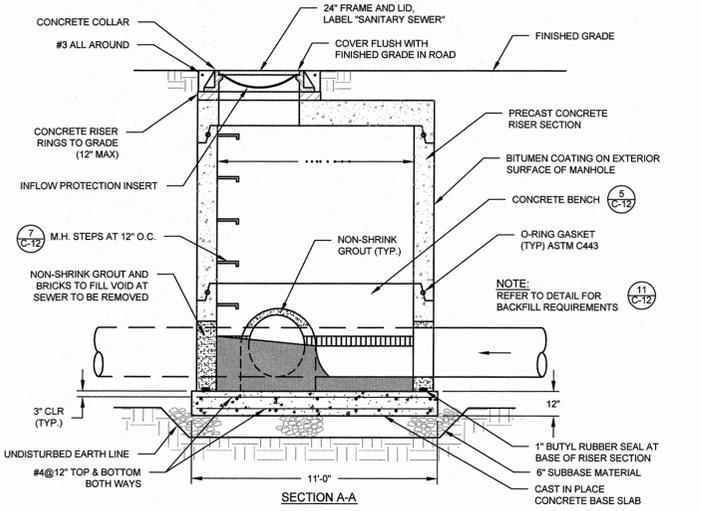
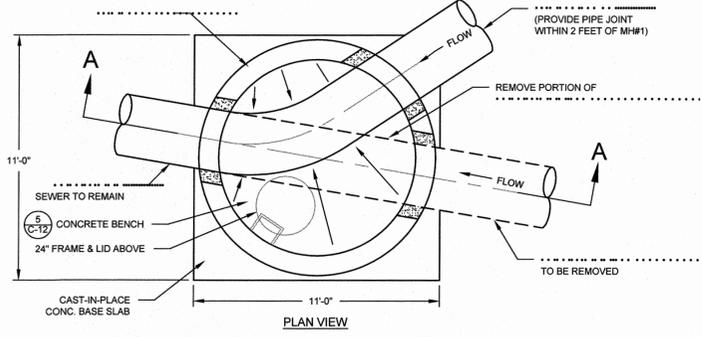
6 UTILITY CROSSING DETAIL C-13 N.T.S.



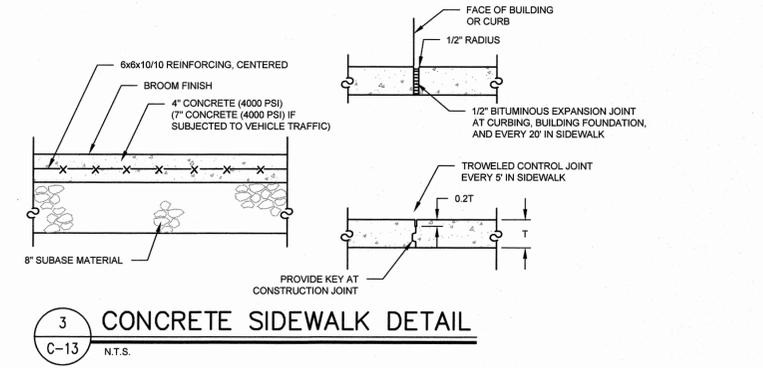
7 GAS CONSTRUCTION TRENCHING AND BACKFILL C-13 N.T.S.



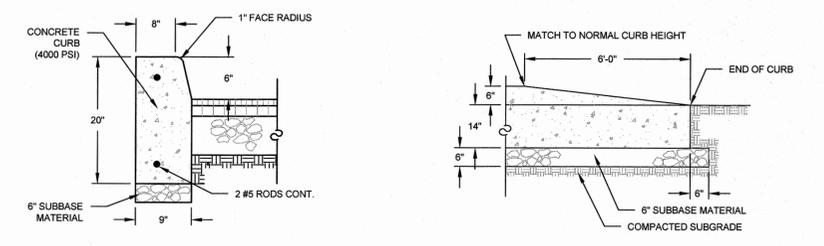
2 MANHOLE MH-7 DETAIL C-13 N.T.S.



8 MANHOLE MH-1 DETAIL C-13 N.T.S.

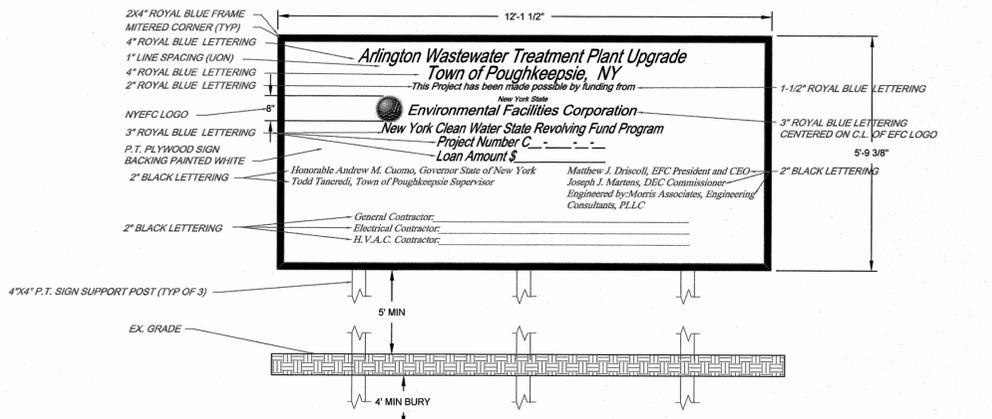


3 CONCRETE SIDEWALK DETAIL C-13 N.T.S.



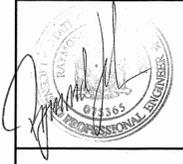
4 CONCRETE CURB DETAIL C-13 N.T.S.

5 CURB TERMINATION DETAIL C-13 N.T.S.



9 PROJECT SIGN DETAIL C-13 N.T.S.

REV.	NO.	DESCRIPTION	DATE	BY
5		ISSUED FOR FINAL REVIEW	03/09/2015	MA
4		ISSUED FOR 90% REVIEW	11/26/2014	MA
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2		DESIGN REVIEW REVISIONS	8/05/14	MA
1		ISSUED FOR 30% REVIEW	6/30/14	MA



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

MISCELLANEOUS DETAILS - 3

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DATE	SCALE	DESIGNED BY	FILE NO.	DRAWING NO.
01/15/14	AS SHOWN	MA - RJJ	60401.30	C-13



ABBREVIATIONS:

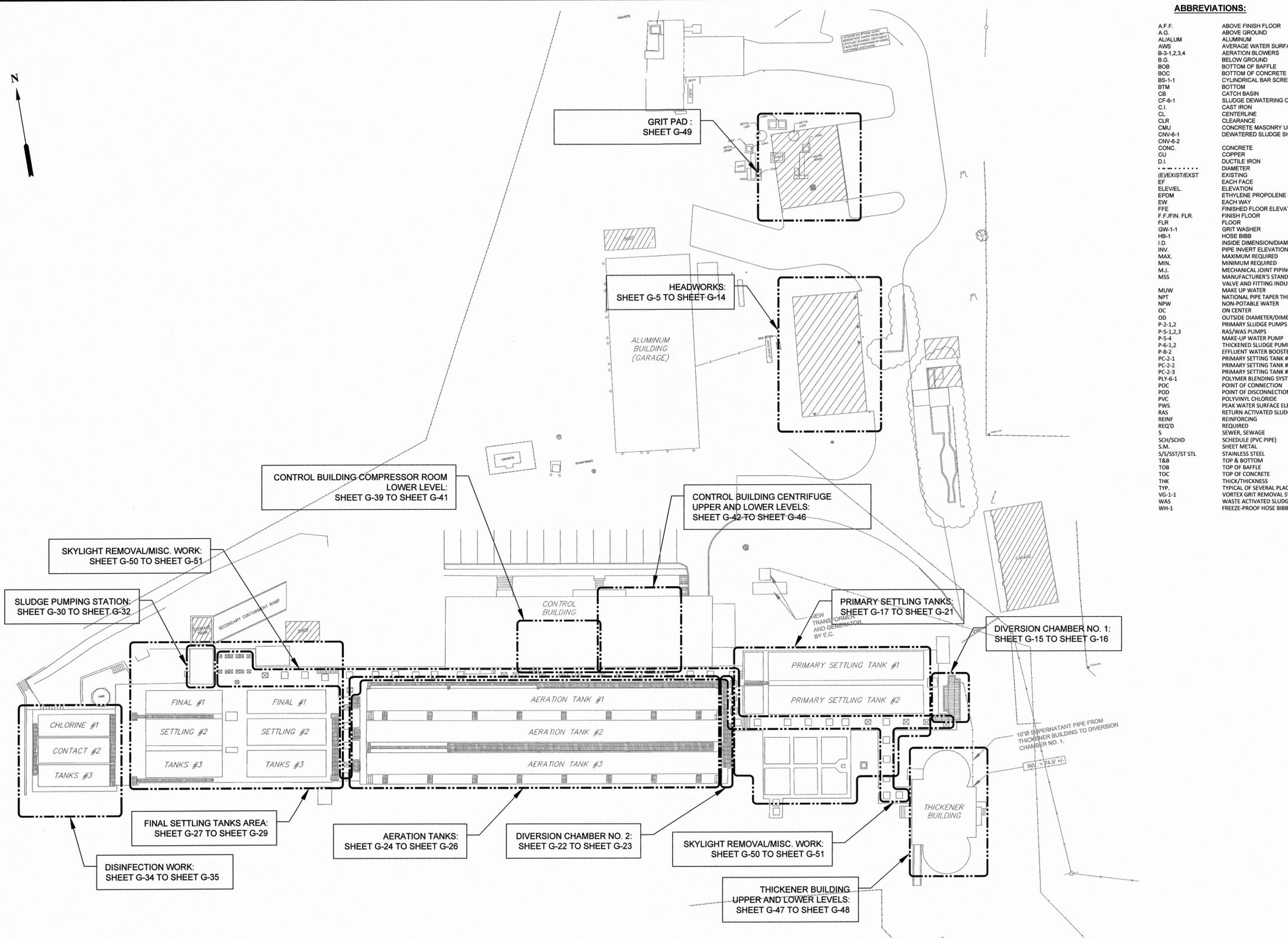
A.F.F.	ABOVE FINISH FLOOR
A.G.	ABOVE GROUND
AL/ALUM	ALUMINUM
AWS	AVERAGE WATER SURFACE ELEVATION
B-3-1,2,3,4	AERATION BLOWERS
B.G.	BELOW GROUND
BOB	BOTTOM OF BAFFLE
BOC	BOTTOM OF CONCRETE
BS-1-1	CYLINDRICAL BAR SCREEN
BTM	BOTTOM
CB	CATCH BASIN
CF-6-1	SLUDGE DEWATERING CENTRIFUGE
C.I.	CAST IRON
CLR	CLEARANCE
CMU	CONCRETE MASONRY UNIT
CNV-6-1	DEWATERED SLUDGE SHAFTLESS SCREW CONVEYOR
CNV-6-2	
CONC.	CONCRETE
CU	COPPER
D.I.	DUCTILE IRON
DIAMETER	DIAMETER
EXISTING	EXISTING
EF	EACH FACE
ELEV.	ELEVATION
EPM	ETHYLENE PROPYLENE DIENE METHYLENE
EW	EACH WAY
FFE	FINISHED FLOOR ELEVATION
F.F.FIN. FLR.	FINISH FLOOR
FLR	FLOOR
GW-1-1	GRIT WASHER
HB-1	HOSE BIBB
ID	INSIDE DIMENSION/DIAMETER
INV.	PIPE INVERT ELEVATION
MAX.	MAXIMUM REQUIRED
MIN.	MINIMUM REQUIRED
M.J.	MECHANICAL JOINT PIPING/FITTINGS
MSS	MANUFACTURER'S STANDARDIZATION SOCIETY OF THE VALVE AND FITTING INDUSTRY
MUW	MAKE UP WATER
NPT	NATIONAL PIPE TAPER THREADS
NPW	NON-POTABLE WATER
OC	ON CENTER
OD	OUTSIDE DIAMETER/DIMENSION
P-2-1,2	PRIMARY SLUDGE PUMPS
P-5-1,2,3	RAS/WAS PUMPS
P-5-4	MAKE UP WATER PUMP
P-6-1,2	THICKENED SLUDGE PUMPS
P-8-2	EFFLUENT WATER BOOSTER PUMPS
PC-2-1	PRIMARY SETTLING TANK #1 COLLECTOR SYSTEM
PC-2-2	PRIMARY SETTLING TANK #2 COLLECTOR SYSTEM
PC-2-3	PRIMARY SETTLING TANK #3,4 COLLECTOR SYSTEM
PLY-6-1	POLYMER BLENDING SYSTEM
POC	POINT OF CONNECTION
PDD	POINT OF DISCONNECTION
PVC	POLYVINYL CHLORIDE
PWS	PEAK WATER SURFACE ELEVATION
RAS	RETURN ACTIVATED SLUDGE
REINF	REINFORCING
REQ'D	REQUIRED
S	SEWER, SEWAGE
SCH/SCHD	SCHEDULE (PVC PIPE)
S.M.	SHEET METAL
S/S/ST/STL	STAINLESS STEEL
T&B	TOP & BOTTOM
TOB	TOP OF BAFFLE
TOC	TOP OF CONCRETE
THK	THICK/THICKNESS
TYP.	TYPICAL OF SEVERAL PLACES
VG-1-1	VORTEX GRIT REMOVAL SYSTEM
WAS	WASTE ACTIVATED SLUDGE
WH-1	FREEZE-PROOF HOSE BIBB

SYMBOLS

	AREA OF WORK (BOXES LINE-DASH-DASH-LINE)
	EXPANSION JOINTS
	HANDRAILS (DEMOLITION/INSTALLATION)
	ALUMINUM GRATINGS
	ALUMINUM GRATINGS
	SKYLIGHT OR PANELS
	BUTTERFLY VALVE
	BUTTERFLY CONTROL VALVE
	SOLENOID CONTROL VALVE
	BALL VALVE
	FLEXIBLE PIPE COUPLING

PIPING

	CW	COLD POTABLE WATER
	FM	SEWER FORCE MAIN
	HYD. SPLY.	HYDRAULIC SUPPLY
	HYD. RTN.	HYDRAULIC RETURN
	POLYMER	POLYMER FEED
	PS	PUMPED SEWAGE
	NPW	NON-POTABLE WATER
	S	SEWER/SEWAGE
	TS	THICKENED SLUDGE
	W	COLD POTABLE WATER



1 PROCESS WORK KEY PLAN
G-1 SCALE: 1"=30'

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	05/01/14	MA
REV. No.	DESCRIPTION	DATE	BY

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

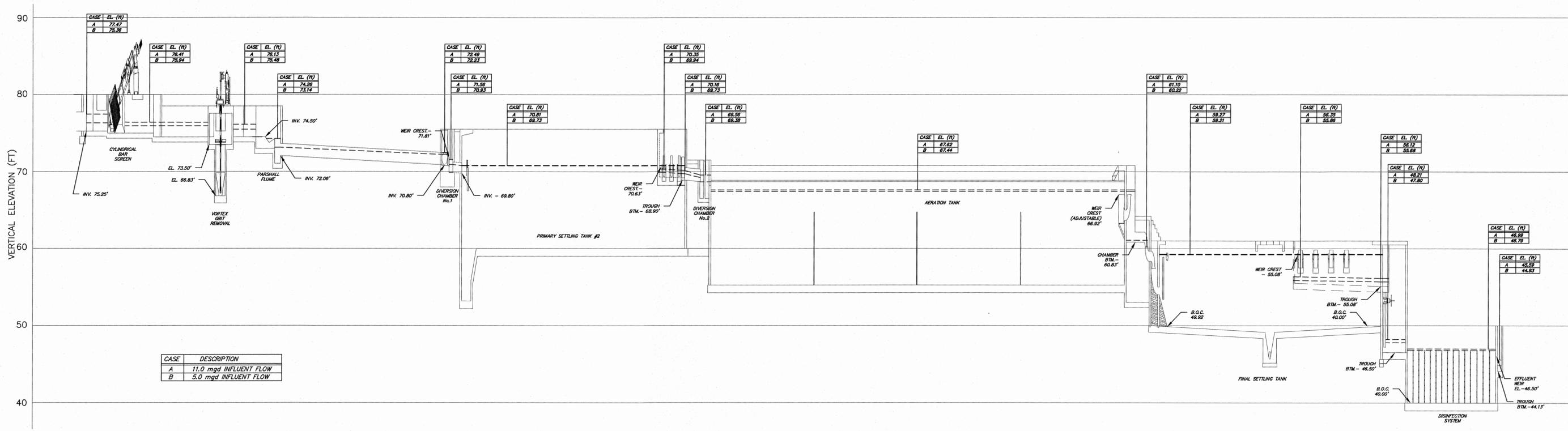
PROCESS WORK KEY PLAN AND ABBREVIATIONS / LEGEND



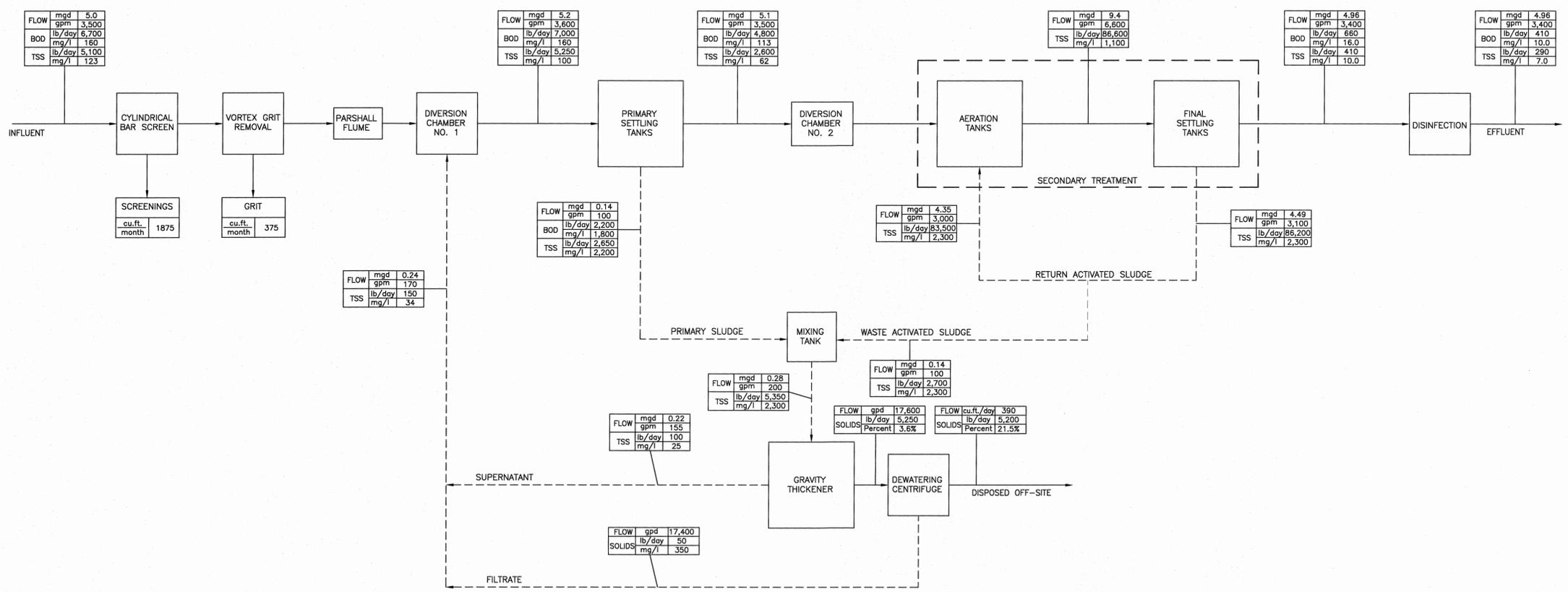
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-1
		CHECKED BY		
		MA - RJJ/JFL		

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1 HYDRAULIC PROFILE
G-2 N.T.S.



2 MASS BALANCE (5.0 MGD)
G-2 N.T.S.

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ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

HYDRAULIC PROFILE AND MASS BALANCE

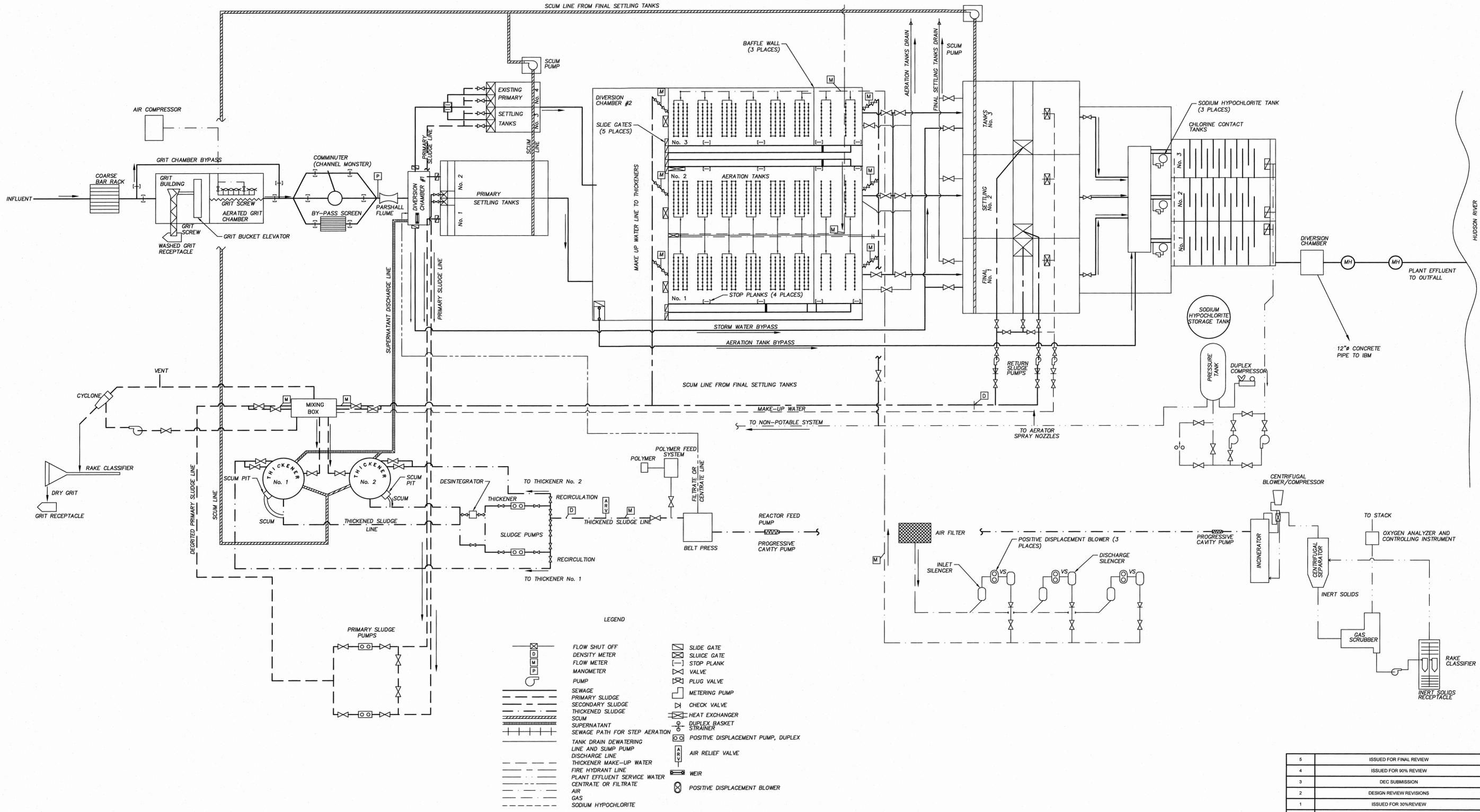
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DATE: 01/15/14	SCALE: AS SHOWN	DESIGNED BY: MA - RJJ	FILE No.: 60401.30	DRAWING No.: G-2
DRAWN BY: MA		CHECKED BY: MA - RJJ/JFL		

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1 PROCESS SCHEMATIC - EXISTING
G-3 N.T.S.

5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
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ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

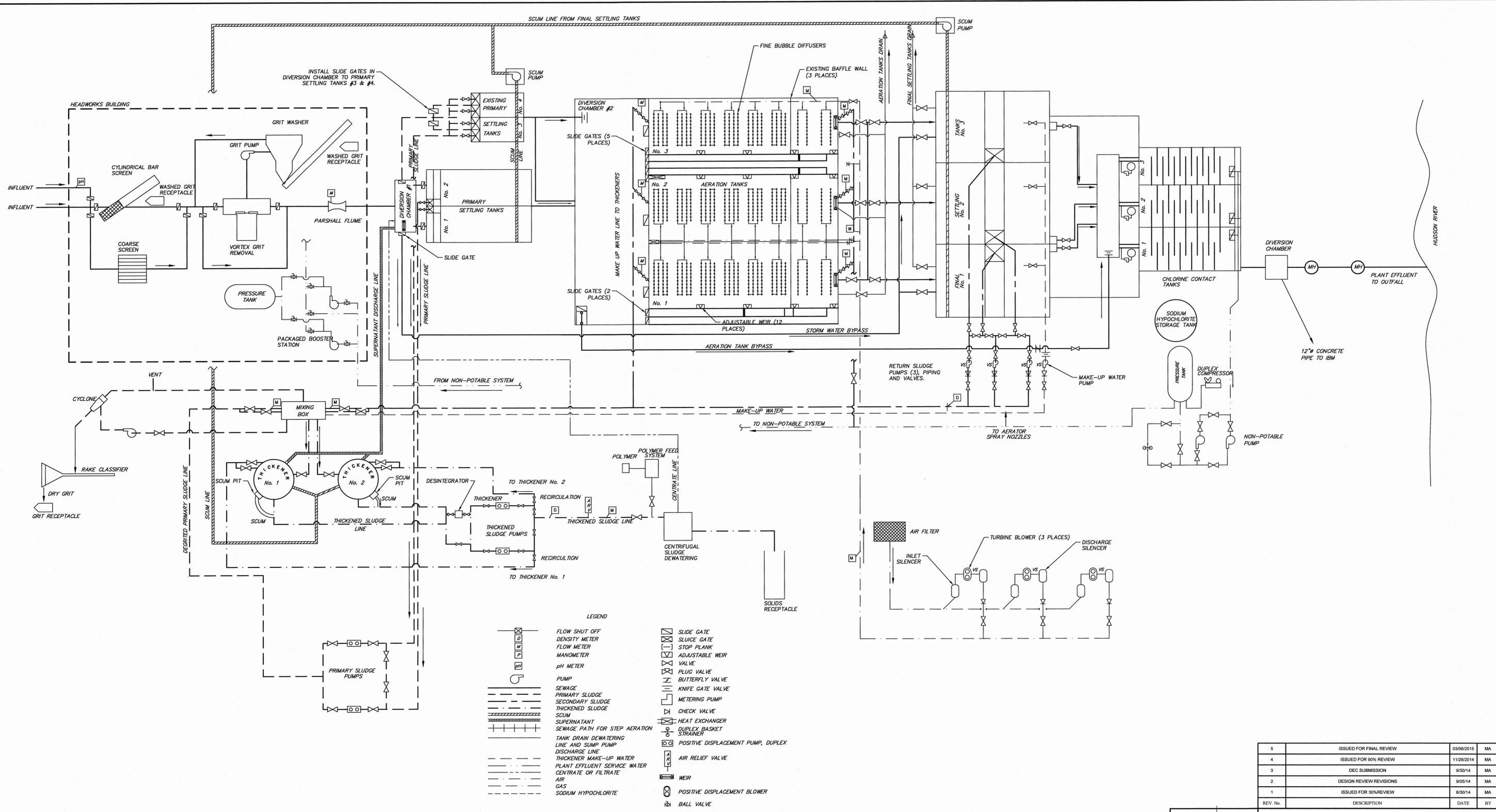
PROCESS SCHEMATIC - EXISTING

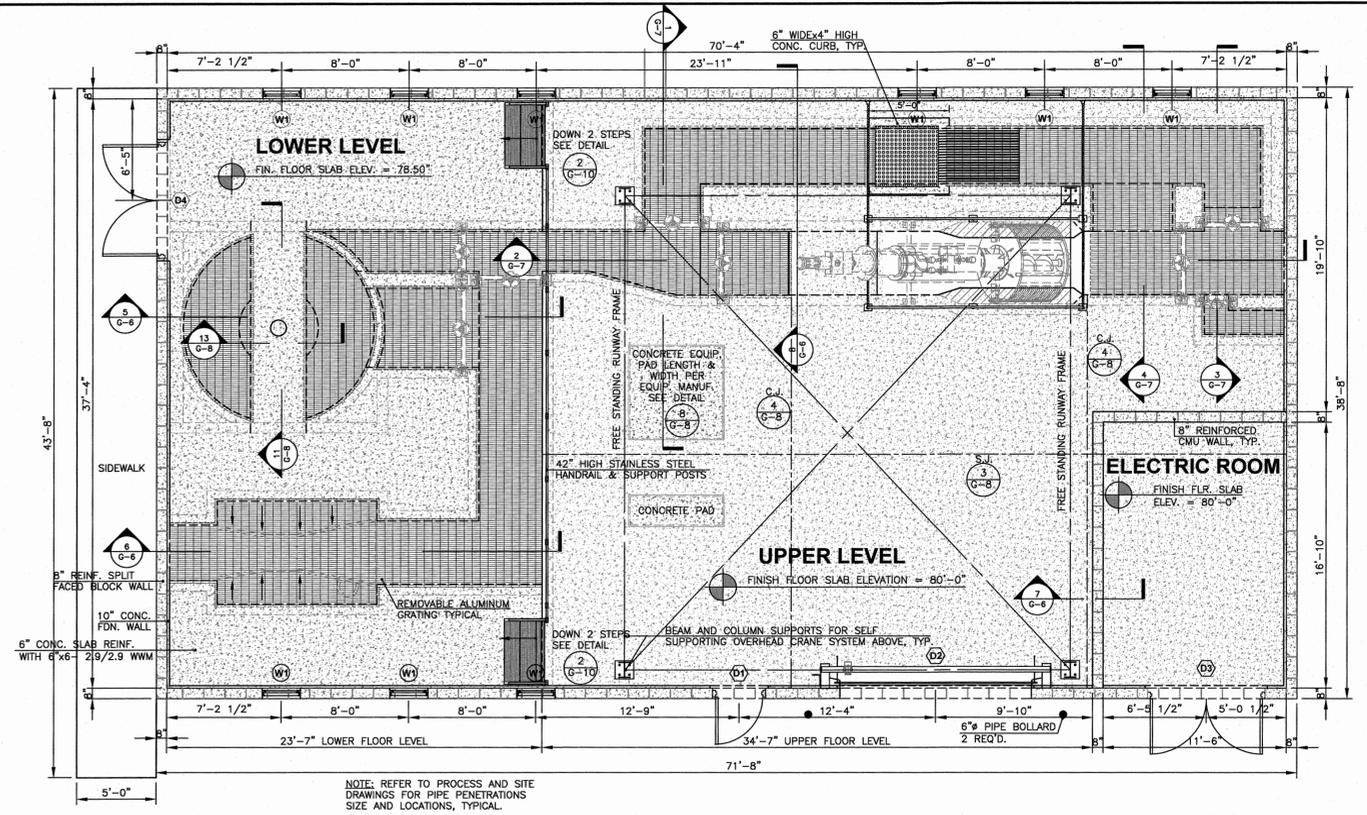
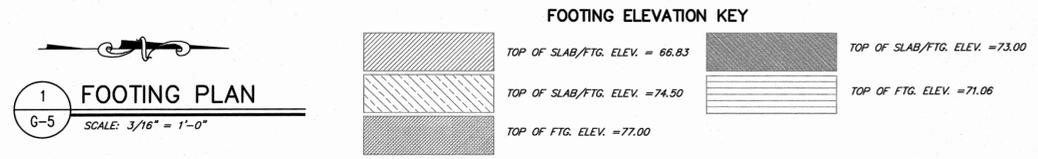
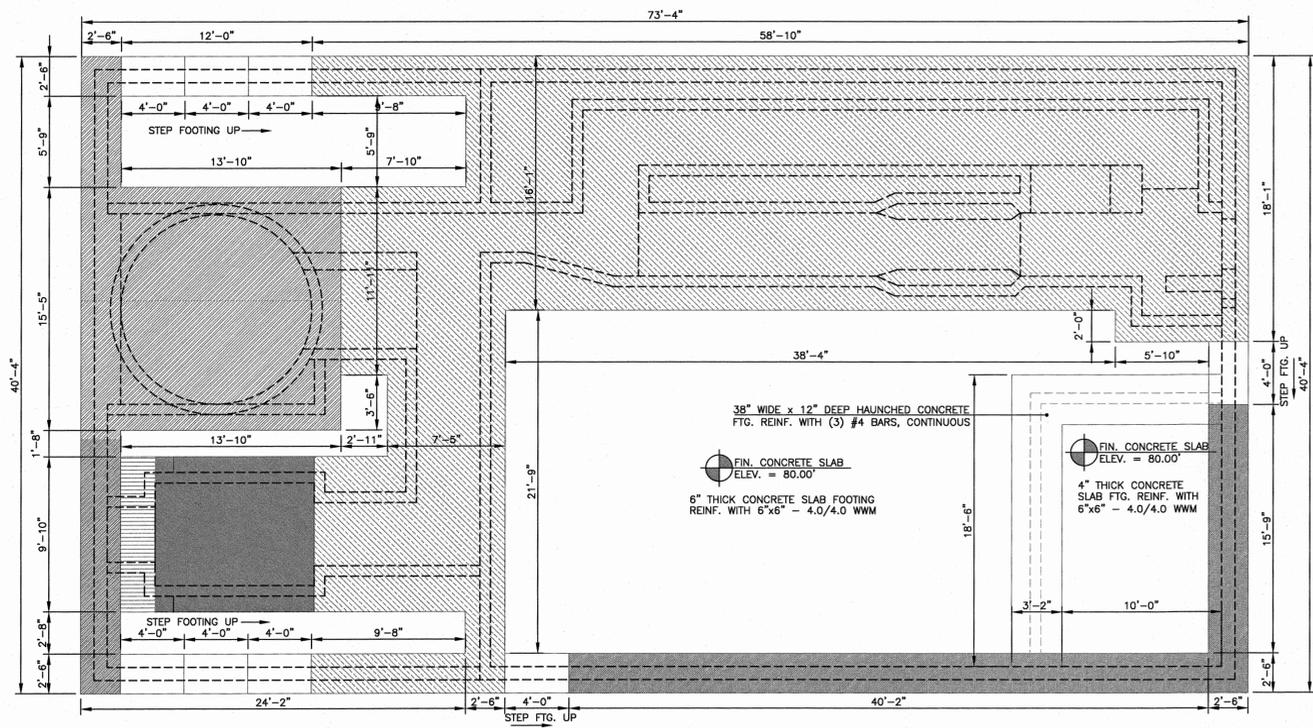
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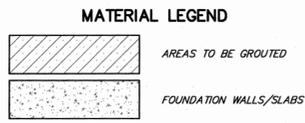
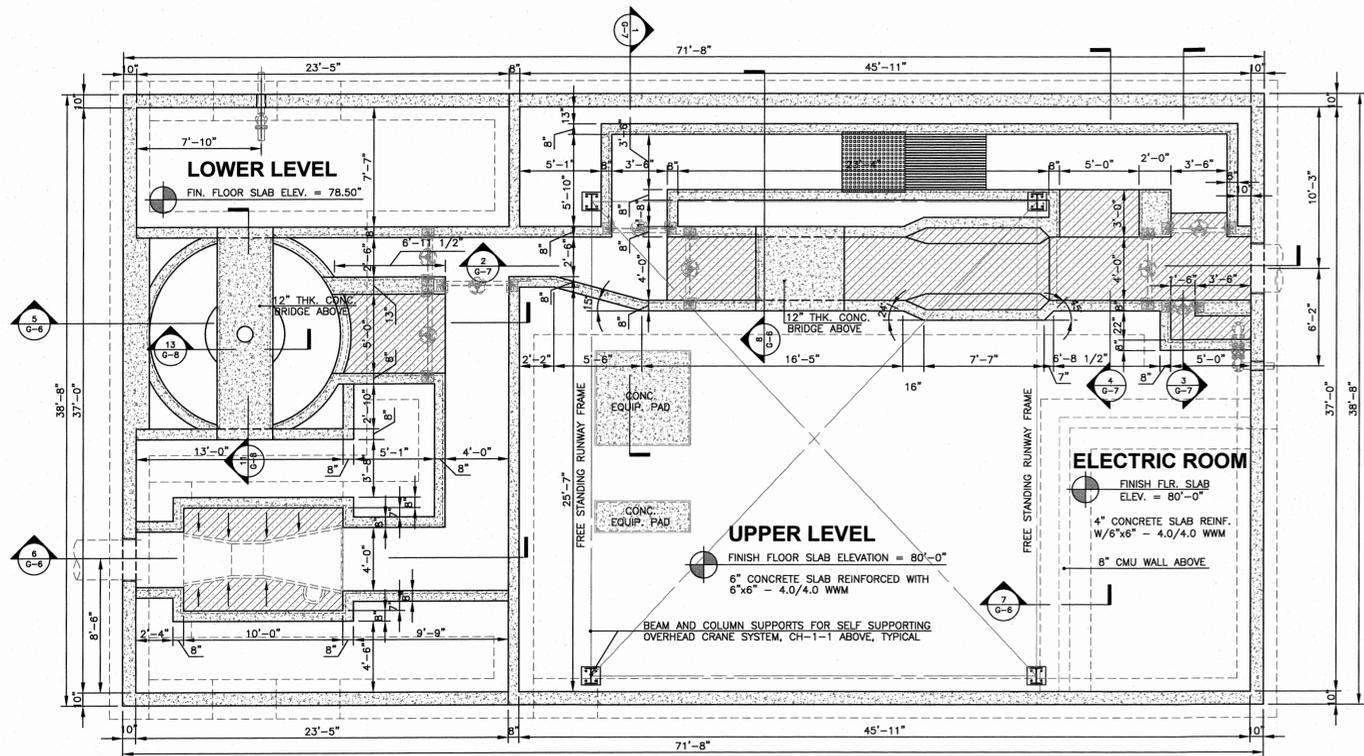
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DATE	SCALE	DESIGNED BY	FILE No.
01/15/14	AS SHOWN	MA - RJJ	60401.30
		CHECKED BY	DRAWING No.
		MA - RJJ / JFL	G-3





NOTE: ALL HEADWORKS METAL GRATING AND PIPE AND TUBE RAILINGS ARE INCLUDED IN LUMP SUM OF BASE BID.



5	ISSUED FOR FINAL REVIEW	03/09/2015	MA
4	ISSUED FOR 60% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

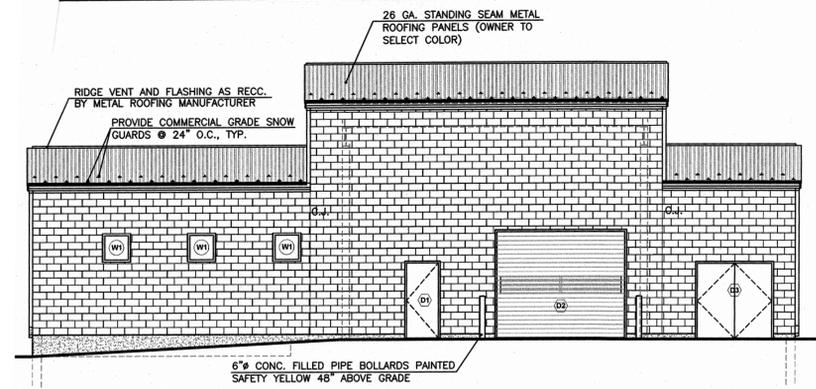
HEADWORKS BUILDING PLANS

MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elks Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411
Fax No. (845) 473-1962

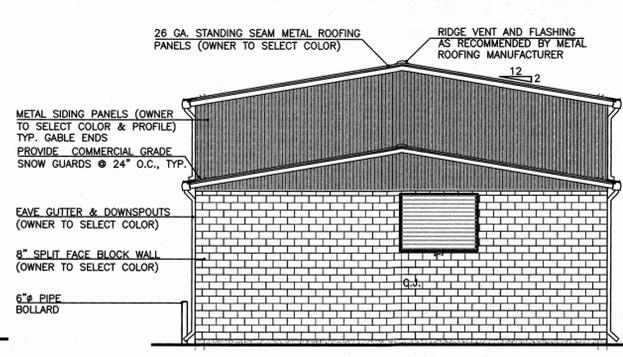
44 Green Street, Hudson, New York 12534
Phone No. (518) 828-2300
Fax No. (518) 828-3963

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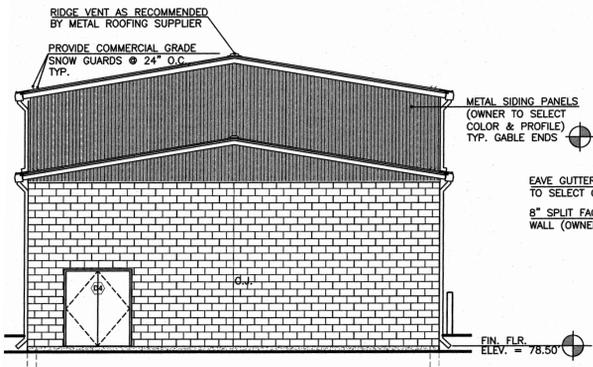
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-5
		DRAWN BY: MA		
		CHECKED BY: MA - RJJ/JFL		



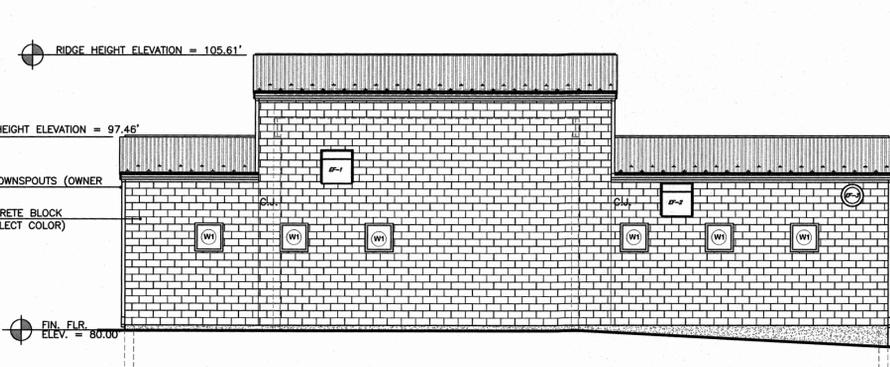
1 EAST ELEVATION
G-6 SCALE: 1/8" = 1'-0"



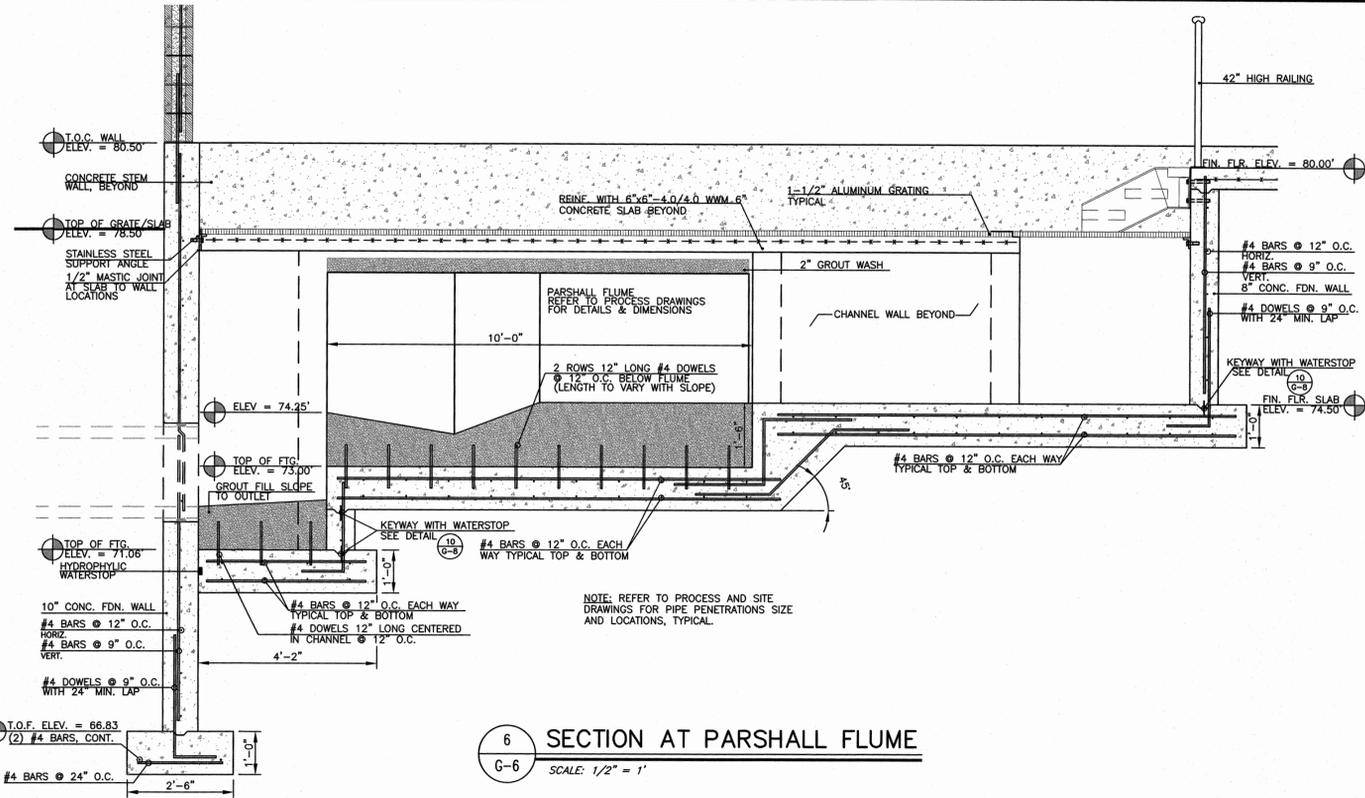
2 NORTH ELEVATION
G-6 SCALE: 1/8" = 1'-0"



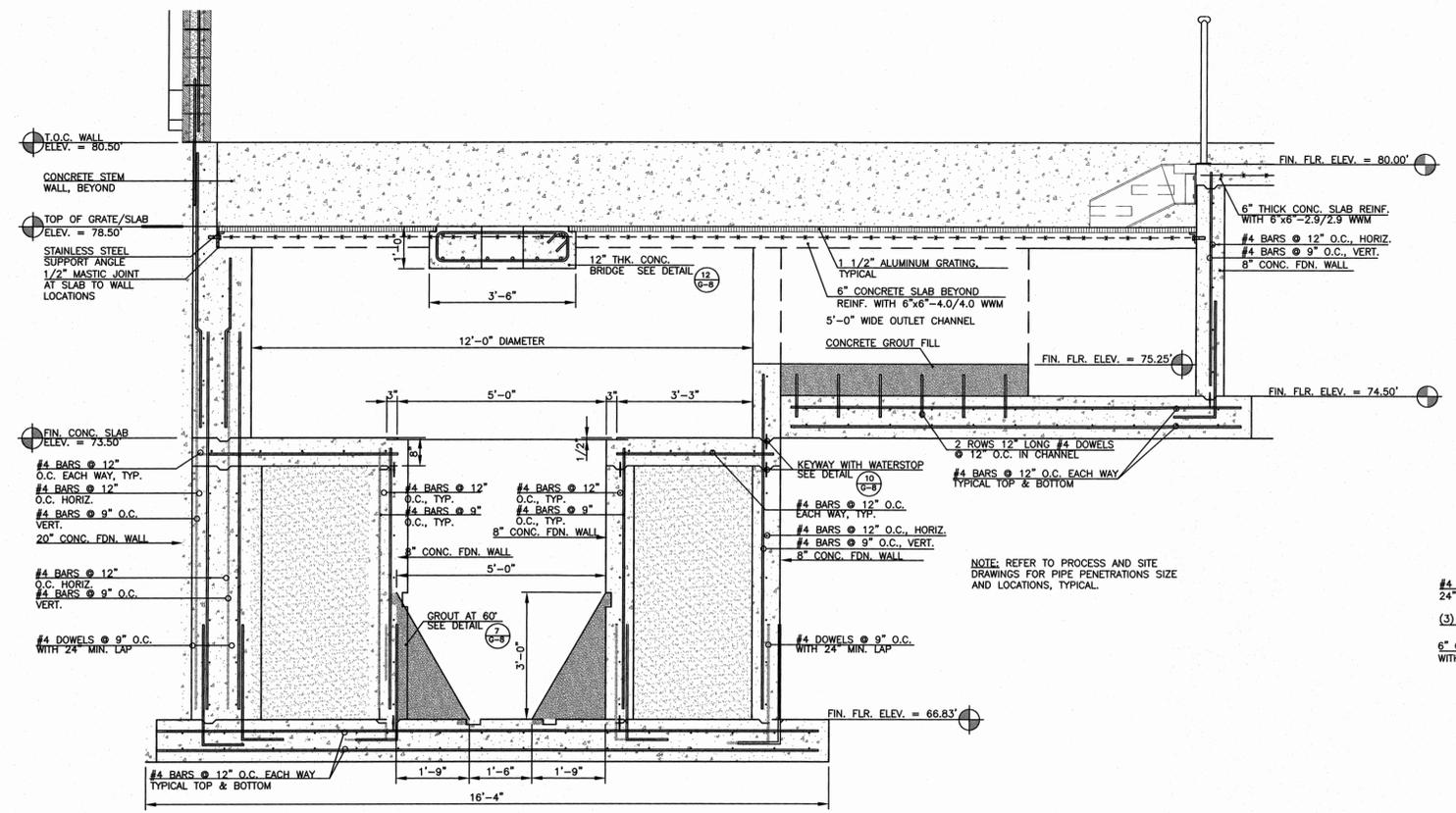
3 SOUTH ELEVATION
G-6 SCALE: 1/8" = 1'-0"



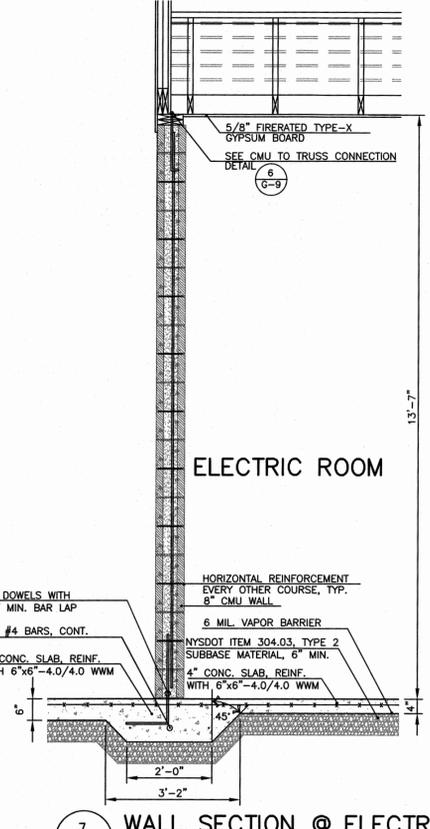
4 WEST ELEVATION
G-6 SCALE: 1/8" = 1'-0"



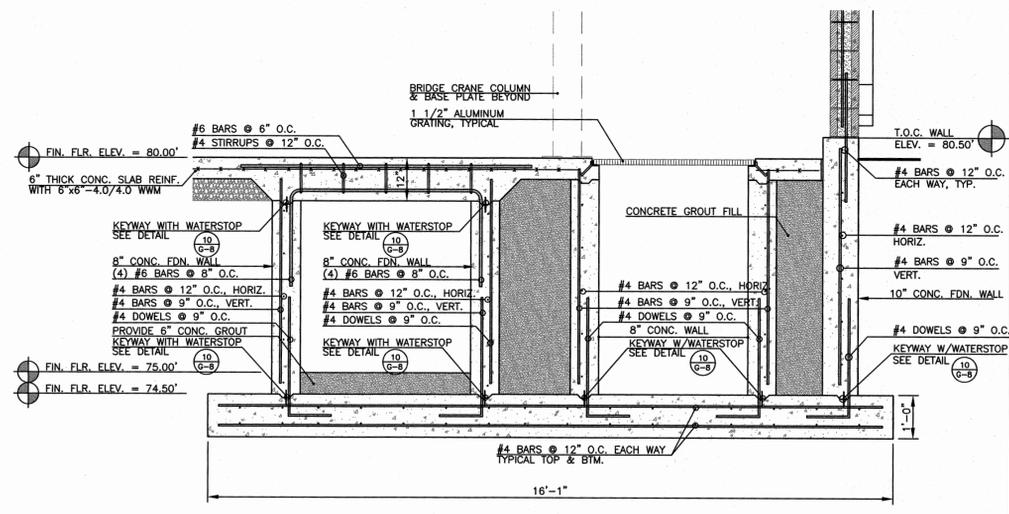
6 SECTION AT PARSHALL FLUME
G-6 SCALE: 1/2" = 1'



5 SECTION AT VORTEX GRIT REMOVAL
G-6 SCALE: 1/2" = 1'



7 WALL SECTION @ ELECTRIC ROOM
G-6 SCALE: 1/2" = 1'



8 SECTION AT BAR SCREEN PAD
G-6 SCALE: 1/2" = 1'

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2016	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



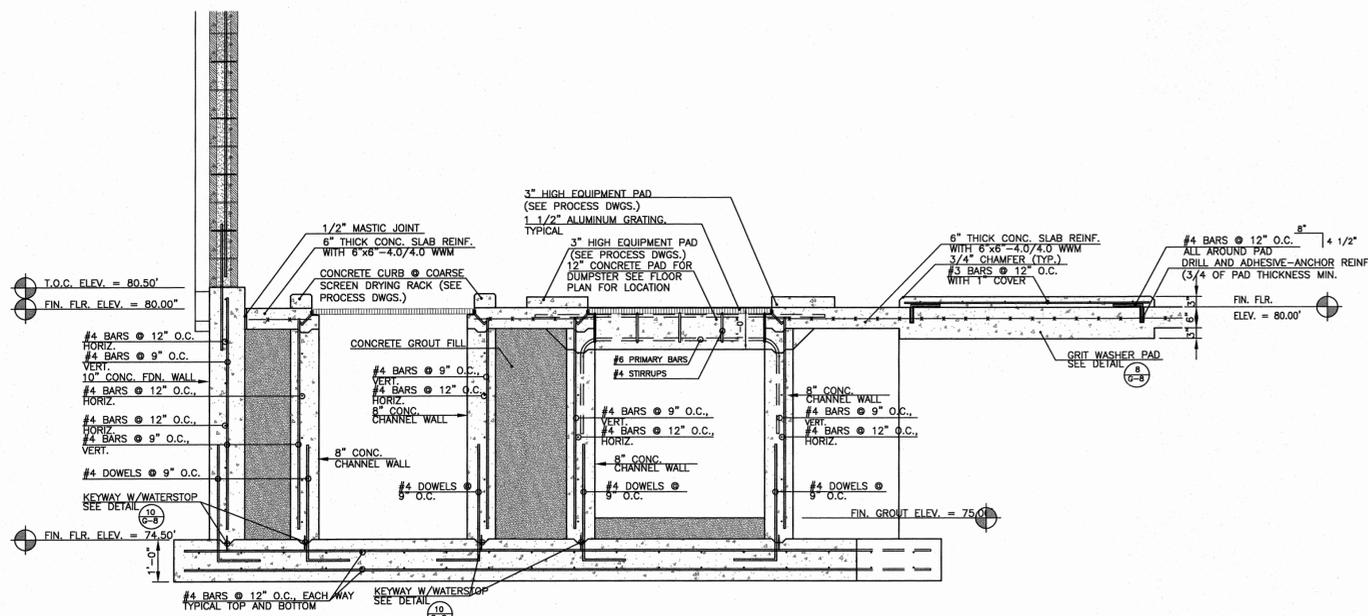
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

HEADWORKS BUILDING ELEVATIONS AND SECTIONS

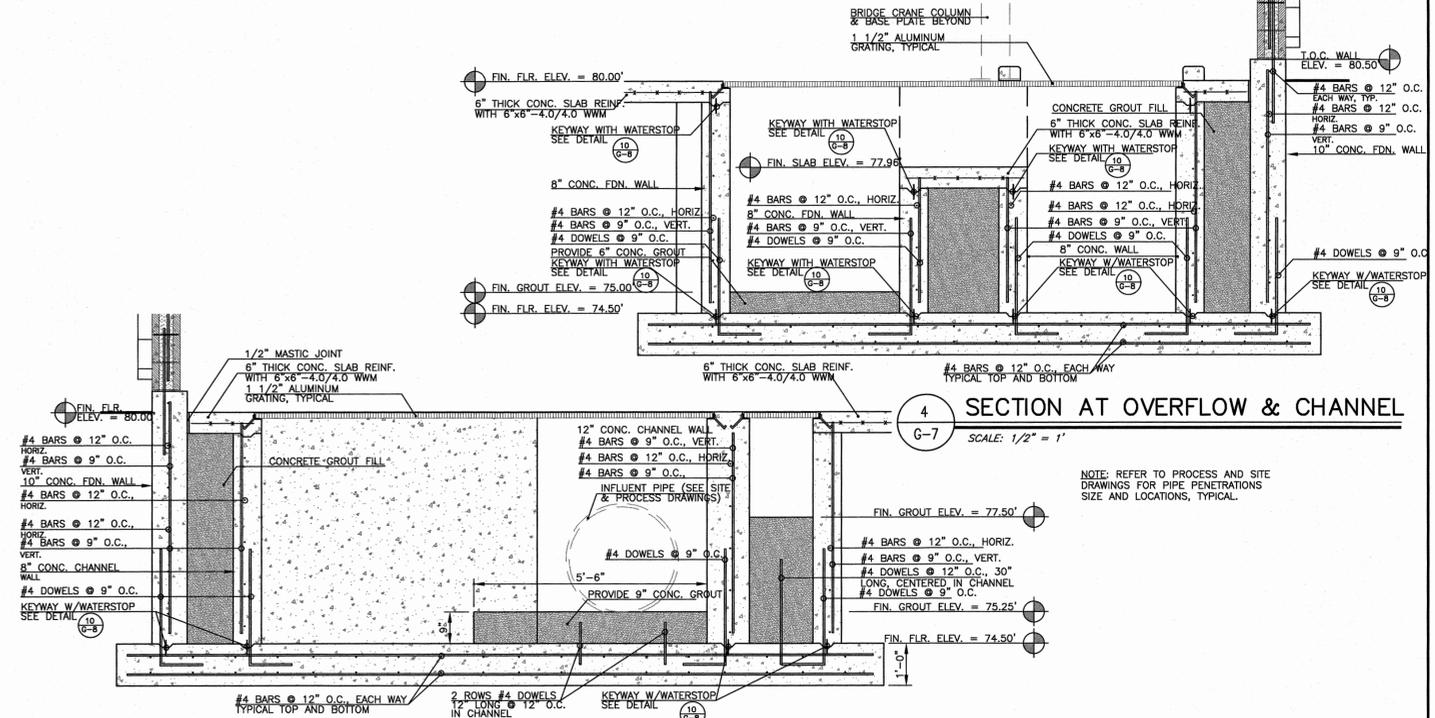
MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-6

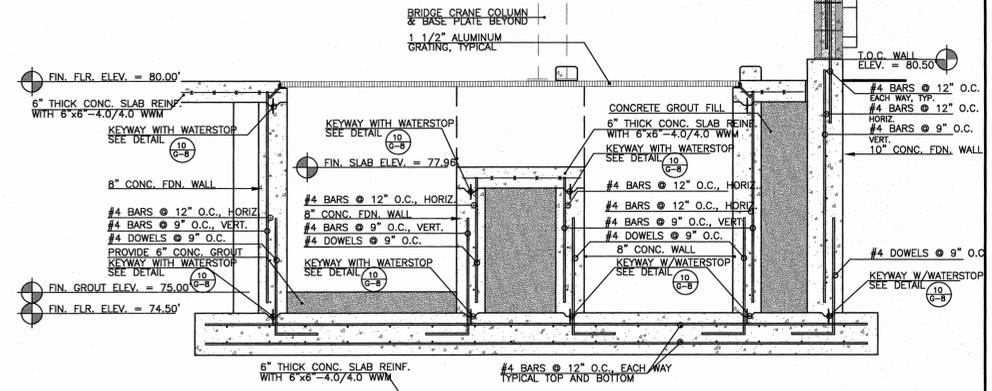
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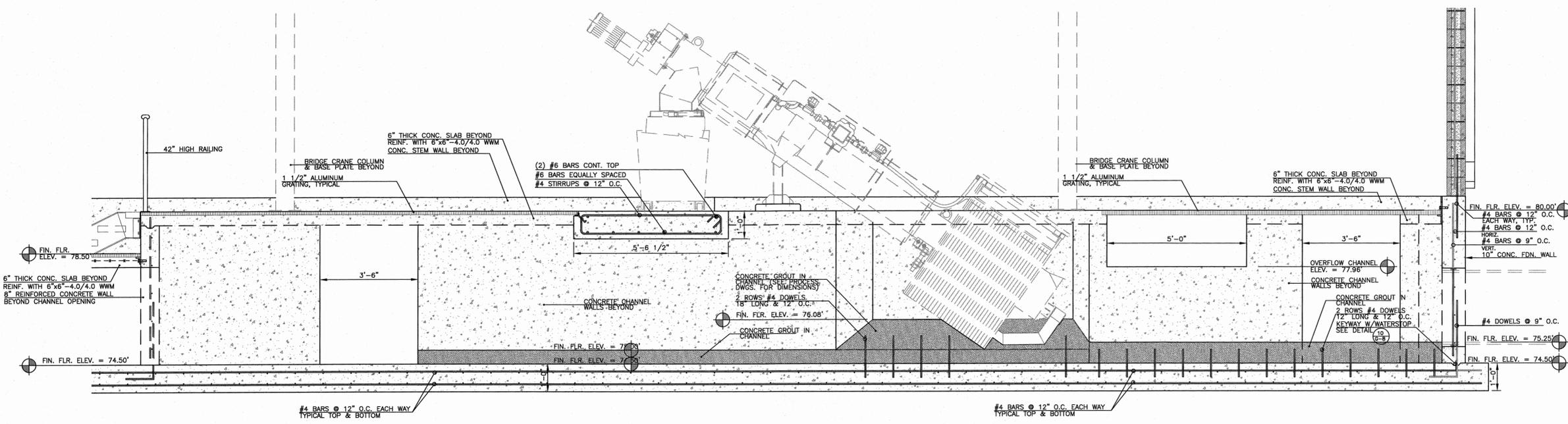
1 SECTION @ GRIT WASHER & CHANNEL
G-7 SCALE: 1/2" = 1'



3 BLDG. INFLUENT & SEWER EXTENSION CHANNEL
G-7 SCALE: 1/2" = 1'



4 SECTION AT OVERFLOW & CHANNEL
G-7 SCALE: 1/2" = 1'



2 SECTION @ BAR SCREEN & CHANNEL
G-7 SCALE: 1/2" = 1'

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	8/05/14	MA
1	ISSUED FOR 30% REVIEW	8/30/14	MA



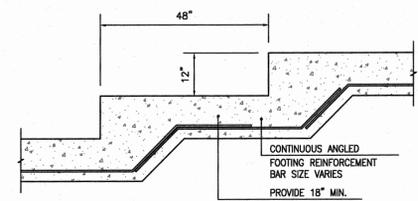
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

HEADWORKS BUILDING SECTIONS

MORRIS ASSOCIATES,
ENGINEERING AND SURVEYING CONSULTANTS, PLLC
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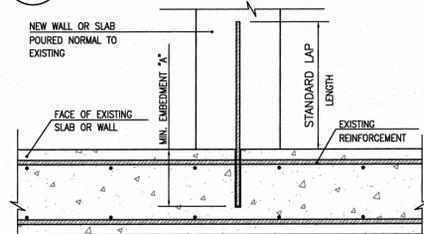
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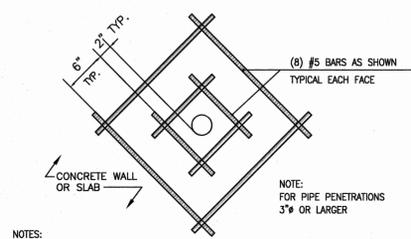
1 STEP FOOTING DETAIL

G-8 SCALE: 1/2"=1'-0"



DOWEL SIZE	MIN. EDGE DISTANCE	MIN. EMBEDMENT "A"
#3	2"	3 1/2"
#4	2 1/2"	5"
#5	3"	6 1/2"
#6	4"	9"
#7	5"	10 1/2"

- NOTES:
- CONFORM TO THE REQUIREMENTS OF SPECIFICATION SECTION 03215, DOWELING FOR CONCRETE.
 - FOLLOW ADHESIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.
 - USE MINIMUM EMBEDMENTS SHOWN, EXCEPT USE MANUFACTURER'S MINIMUM RECOMMENDED EMBEDMENT IF GREATER.
 - LOCATE DOWELS CENTERED IN WALL OR SLAB UNLESS OTHERWISE NOTED ON DRAWINGS. WHERE 2 ROWS OF DOWELS INDICATED, STAGGER SPACING AND LOCATE ALTERNATING DOWELS AT MINIMUM EDGE DISTANCE FROM OPPOSITE FACES.



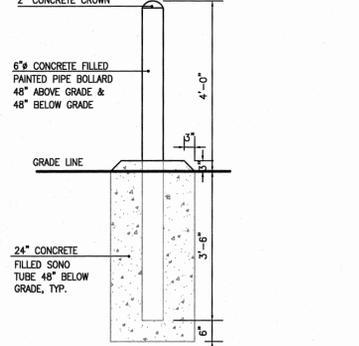
5 REINFORCEMENT @ PIPE PENETRATION

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



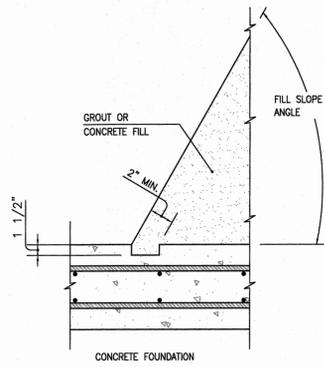
7 CONCRETE OR GROUT FILL KEY

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



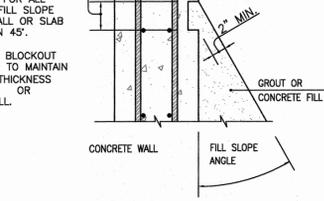
6 PIPE BOLLARD DETAIL

G-8 SCALE: 1/2"=1'-0"



7 CONCRETE OR GROUT FILL KEY

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



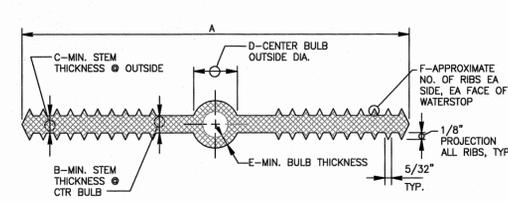
10 TYPICAL WATER STOP DETAILS

G-8 SCALE: NONE



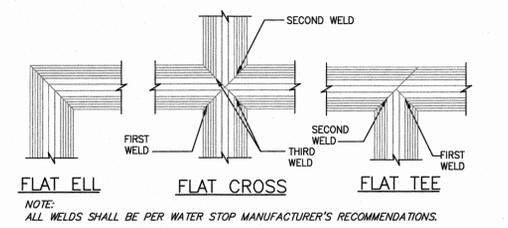
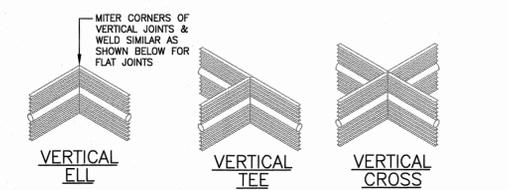
11 SECTION THROUGH WALLS @ VORTEX GRIT REMOVER SUPPORT BEAM

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



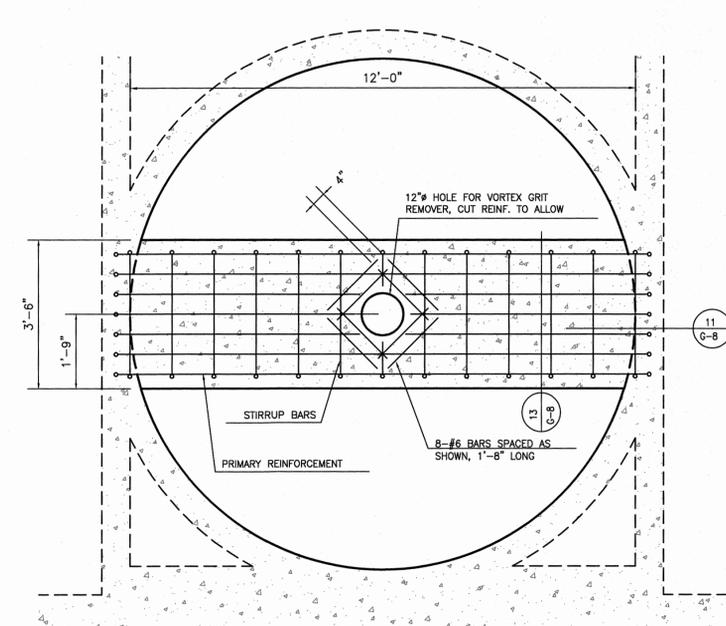
SIZE	A	B	C	D	E	F
4"x3/16"	4"	3/16"	3/16"	3/4"	1/4"	4
6"x3/8"	6"	3/8"	3/8"	7/8"	1/4"	6
9"x3/8"	9"	3/8"	3/8"	1"	1/4"	8

- NOTES:
- MATERIAL QUALITY PER SPECIFICATIONS.
 - DIM REQUIREMENTS INDICATED SHOULD BE GIVEN TO SUPPLIERS PRIOR TO PLACING ORDERS.
 - NON-ROUND CENTER BOLBS SHALL HAVE A MIN. OUTSIDE DIM OF 'D'.



10 TYPICAL WATER STOP DETAILS

G-8 SCALE: NONE

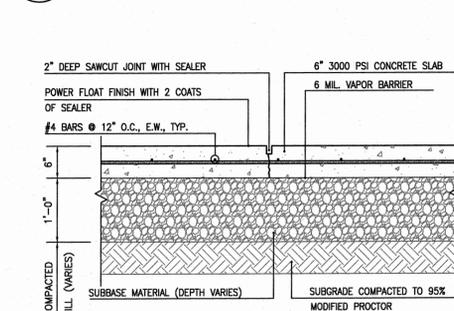


12 VORTEX SUPPORT BRIDGE

G-8 SCALE: 1"=2'-0"

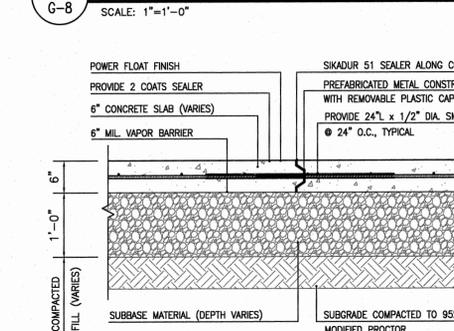
2 DRILL-IN DOWELS

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



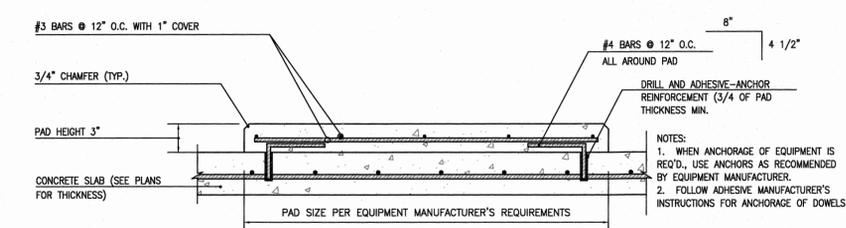
3 CONCRETE SLAB SAWCUT DETAIL

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



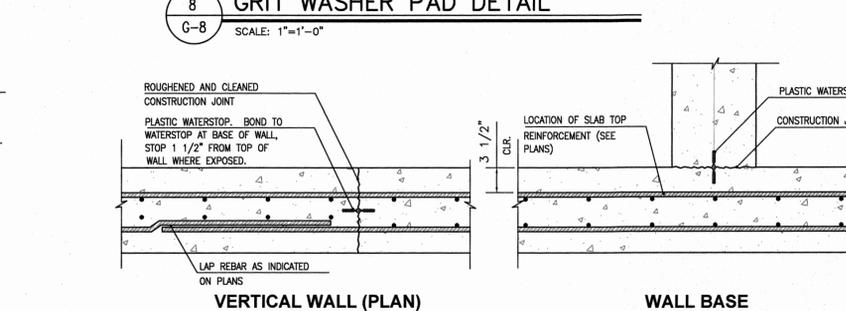
4 CONCRETE SLAB CONSTRUCTION JOINT DETAIL

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



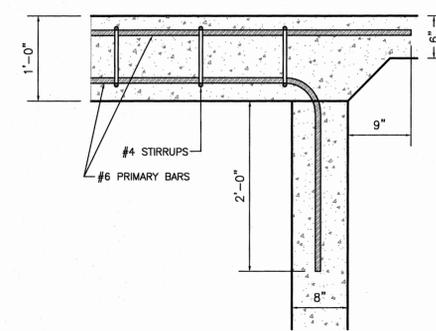
8 GRIT WASHER PAD DETAIL

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



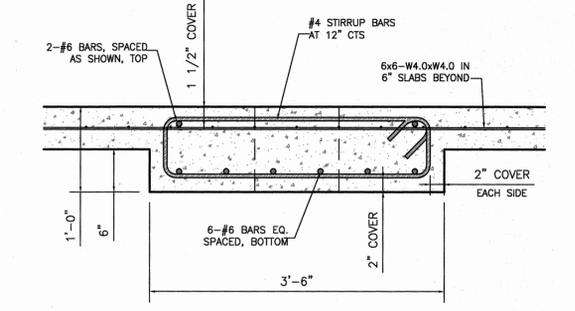
9 TYPICAL CONSTRUCTION JOINT DETAILS

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



11 SECTION THROUGH WALLS @ VORTEX GRIT REMOVER SUPPORT BEAM

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



13 SECTION THROUGH VORTEX GRIT REMOVER SUPPORT BEAM

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

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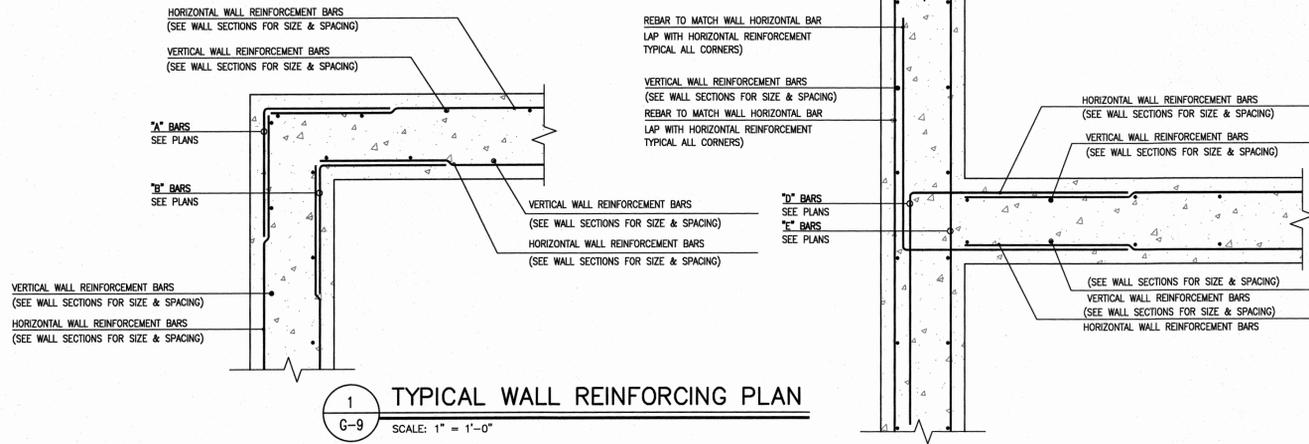
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

HEADWORKS BUILDING CONCRETE DETAILS - 1

MORRIS ASSOCIATES,
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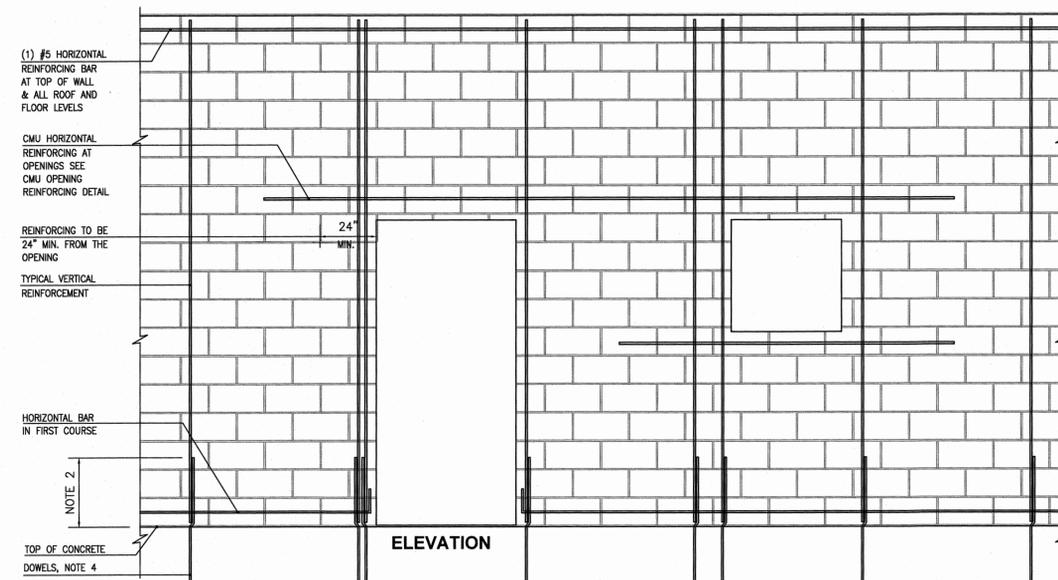
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-8

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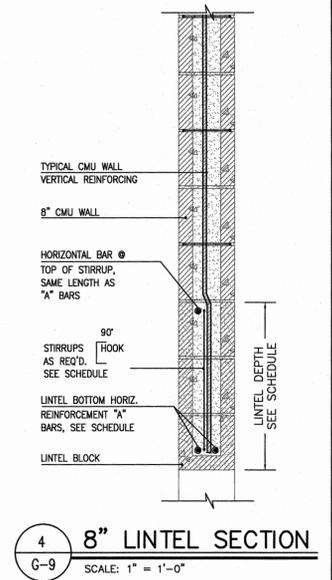


MINIMUM CONCRETE COVER FOR STEEL	
CONCRETE EXPOSURE	MIN. COVER (INCHES)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS OR JOISTS: #14 AND #18 BARS	1 1/2"
#11 BAR AND SMALLER	3/4"
BEAMS OR COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2"
SHELLS AND FOLDED PLATE MEMBERS: #6 BAR AND LARGER	3/4"
#5 BAR, W31 OR D31 WIRE AND SMALLER	1/2"

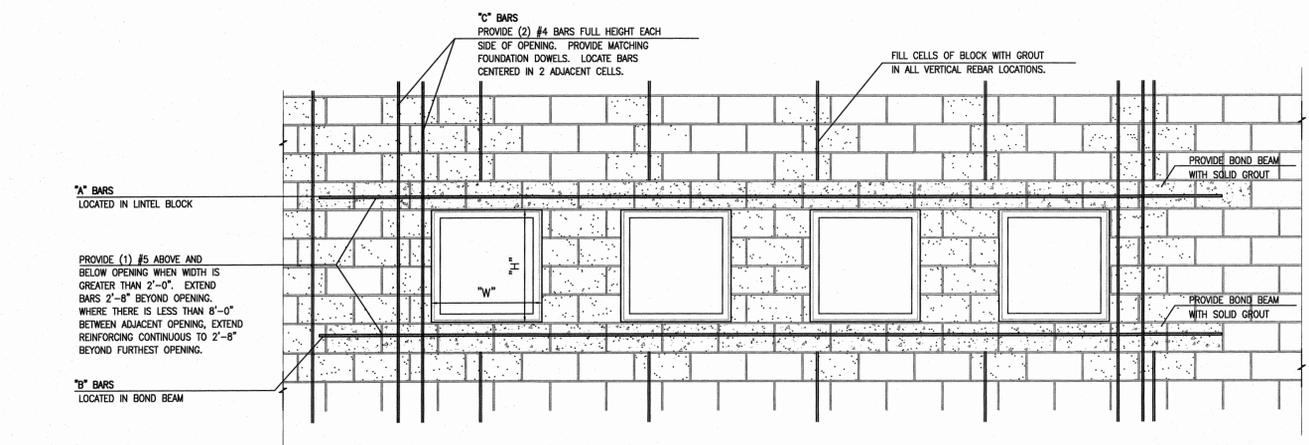
NOTES:
 1. TYPICAL HORIZONTAL WALL CORNER AND INTERSECTION REINFORCEMENT IS SHOWN TO AVOID CONGESTION AND PERMIT PROPER PLACEMENT, FOR SIZE AND SPACING SEE PLANS. ALL HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS SHALL BE FABRICATED AND INSTALLED WITH SPLICES LOCATED WHERE SHOWN REGARDLESS OF BAR SIZE AND SPACING.
 2. WHERE THE CORNER OR INTERSECTION REINFORCING SIZE AND SPACING IS NOT SHOWN, NOTED OR TABULATED ON THE PLANS, THE SIZE AND SPACING SHALL BE THE SAME AS THE WALL HORIZONTAL REINFORCING SHOWN ON THE WALL SECTIONS OR AS NOTED FOR THE REINFORCING BETWEEN THE CORNERS OR INTERSECTIONS.
 3. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 3" SHALL BE THE LESSER OF D/4, 10 FEET, OR 1.0 TIMES THE HEIGHT OF THE WALL, EXCEPT THAT IN NO CASE SHALL IT BE LESS THAN 2.0 FEET.
 4. D=LENGTH OF WALL PARALLEL TO THE BAR LENGTH IN QUESTION.
 5. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 5" SHALL BE EQUAL TO ONE "LAP LENGTH" AS REQUIRED BY THE GENERAL STRUCTURAL NOTES. USE THE LAP LENGTH AS REQUIRED FOR THE SMALLER OF THE TWO REINFORCING BARS BEING SPLICED.
 6. UNLESS OTHERWISE NOTED, "B" AND "C" BARS ARE THE SAME SIZE AND SPACING AND, "F" AND "G" BARS ARE THE SAME SIZE AND SPACING.



NOTES:
 1. FOR TYPICAL WALL REINFORCING, SEE WALL SECTIONS AND DETAILS FOR EACH BUILDING. SEE GENERAL NOTES FOR MINIMUM REINFORCING REQUIREMENTS.
 2. LAP ALL REINFORCING 48 BAR DIAMETERS (2'-0" MIN.), EXCEPT LAP VERTICAL BARS IN THE MIDDLE HALF OF THE WALL HEIGHT 72 BAR DIAMETERS.
 3. STAGGER SPLICES IN ADJACENT HORIZONTAL BARS IN THE SAME COURSE BY 2'-0".
 4. PROVIDE DOWEL BARS IN THE FOUNDATION TO MATCH ALL VERTICAL REINFORCING.
 5. PROVIDE ADDED REINFORCING AT WALL INTERSECTIONS AND CORNERS.
 6. GROUT EACH SIDE OF OPENING AS NOTED IN TYPICAL CMU OPENING REINFORCING DETAIL.



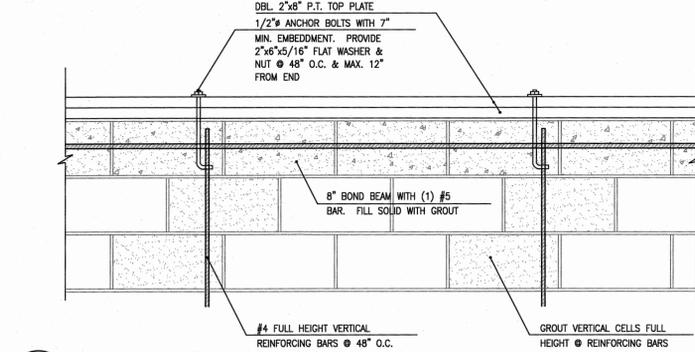
3 TYPICAL CMU WALL REINFORCING DETAIL
 G-9 SCALE: 1/2" = 1'-0"



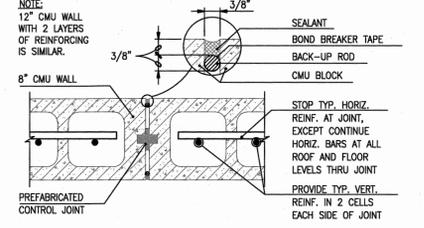
CMU OPENING REINF SCHEDULE													
8" WALLS						12" WALLS							
W	LINTEL DEPTH	STIRRUP SIZE, SPA	"A" BARS	"B" BARS	"C" BARS	JAMB WIDTH	W	LINTEL DEPTH	STIRRUP SIZE, SPA	"A" BARS	"B" BARS	"C" BARS	JAMB WIDTH
<2'-8"	8"	-	1	1	1	8"	<2'-8"	8"	-	2	2	2	8"
>2'-8" <4'-0"	16"	-	2	1	1	8"	>2'-8" <4'-0"	16"	-	2	2	2	8"
>4'-0" <6'-0"	24"	#308	2	1	2	16"	>4'-0" <6'-0"	24"	#308	2	2	4	16"
>6'-0" <8'-0"	32"	#3016	2	2	3	24"	>6'-0" <8'-0"	32"	#3016	2	2	6	24"
>8'-0" <10'-0"	48"	#3024	2	2	3	24"	>8'-0" <10'-0"	48"	#3024	2	2	6	24"

NOTES:
 1. USE THE BAR QUANTITIES AND SIZES GIVEN IN LINTEL SCHEDULE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 2. EXTEND "C" BARS 48 BAR DIAMETERS OR 2'-0" MIN. BEYOND TOP AND BOTTOM OF OPENING EXCEPT THAT WHEN "H" OR "W" EXCEEDS 2'-0", "C" BARS SHALL EXTEND FULL HEIGHT.
 3. "A" AND "B" BARS SHALL EXTEND 48 BAR DIAMETERS OR 2'-0" MINIMUM EACH SIDE OF THE OPENINGS.
 4. FOR BAR SIZES, MATCH TYPICAL WALL REINFORCEMENT AS SHOWN ON THE BUILDING WALL SECTIONS.
 5. PROVIDE (2) #5 BARS ABOVE AND BELOW OPENING WHEN "W" IS GREATER THAN 2'-0". EXTEND 2'-8" EACH SIDE OF THE OPENING. WHERE THERE IS LESS THAN 8'-0" BETWEEN ADJACENT OPENINGS, EXTEND REINFORCING CONTINUOUS TO 2'-8" BEYOND FURTHEST OPENING.
 6. PROVIDE 2 TYPICAL WALL VERTICAL BARS EACH SIDE OF OPENING, FULL WALL HEIGHT WHEN "H" IS GREATER THAN 2'-0". PROVIDE MATCHING FOUNDATION DOWELS. LOCATE BARS CENTERED IN 2 ADJACENT CELLS IN 8" WALLS, AND EACH FACE IN SINGLE GROUT CELL IN 12" WALLS.

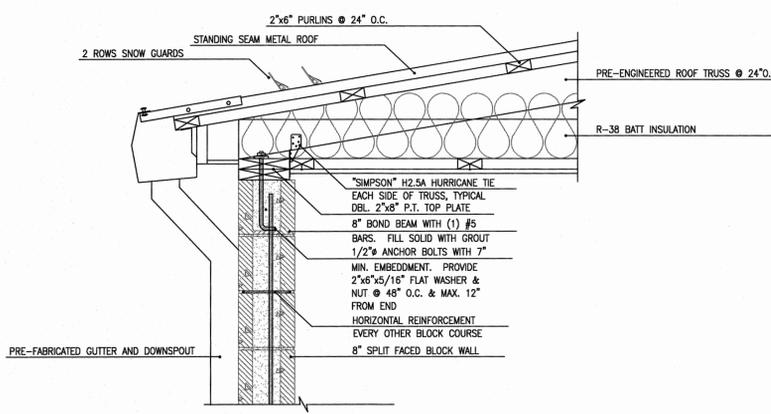
2 CMU OPENING REINFORCING
 G-9 SCALE: 1/2" = 1'-0"



5 8" CMU TO TOP PLATE CONNECTION
 G-9 SCALE: 1" = 1'-0"



7 CMU CONTROL JOINT
 G-9 SCALE: 1 1/2" = 1'-0"



6 8" CMU TO TRUSS ROOF CONNECTION
 G-9 SCALE: 1" = 1'-0"

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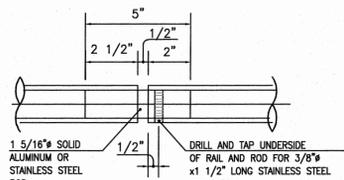
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

HEADWORKS BUILDING CONCRETE DETAILS - 2

MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
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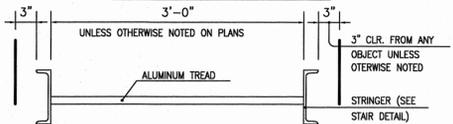
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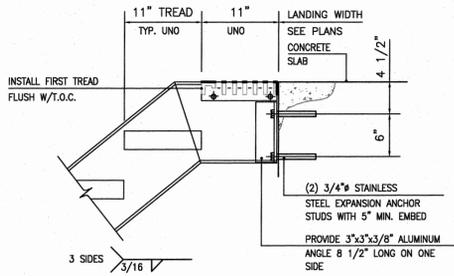


1 RAIL EXPANSION JOINT
G-10 SCALE: 3" = 1'-0"

STAIRWAY WIDTH	BEARING BARS
	ALUMINUM TREAD
2'-3" OR LESS	1"x3/16"
2'-9" OR LESS	1 1/4"x3/16"
3'-3" OR LESS	1 1/2"x3/16"
4'-7" OR LESS	1 3/4"x3/16"



3 STAIR TREAD DETAIL
G-10 SCALE: 1" = 1'-0"



- NOTES:
1. PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE AS SPECIFIED.
 2. GRIND EXPOSED FACES ONLY.
 3. STAIR HANDRAIL NOT SHOWN.

2 TYPICAL STAIR CONNECTION
G-10 SCALE: NONE

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

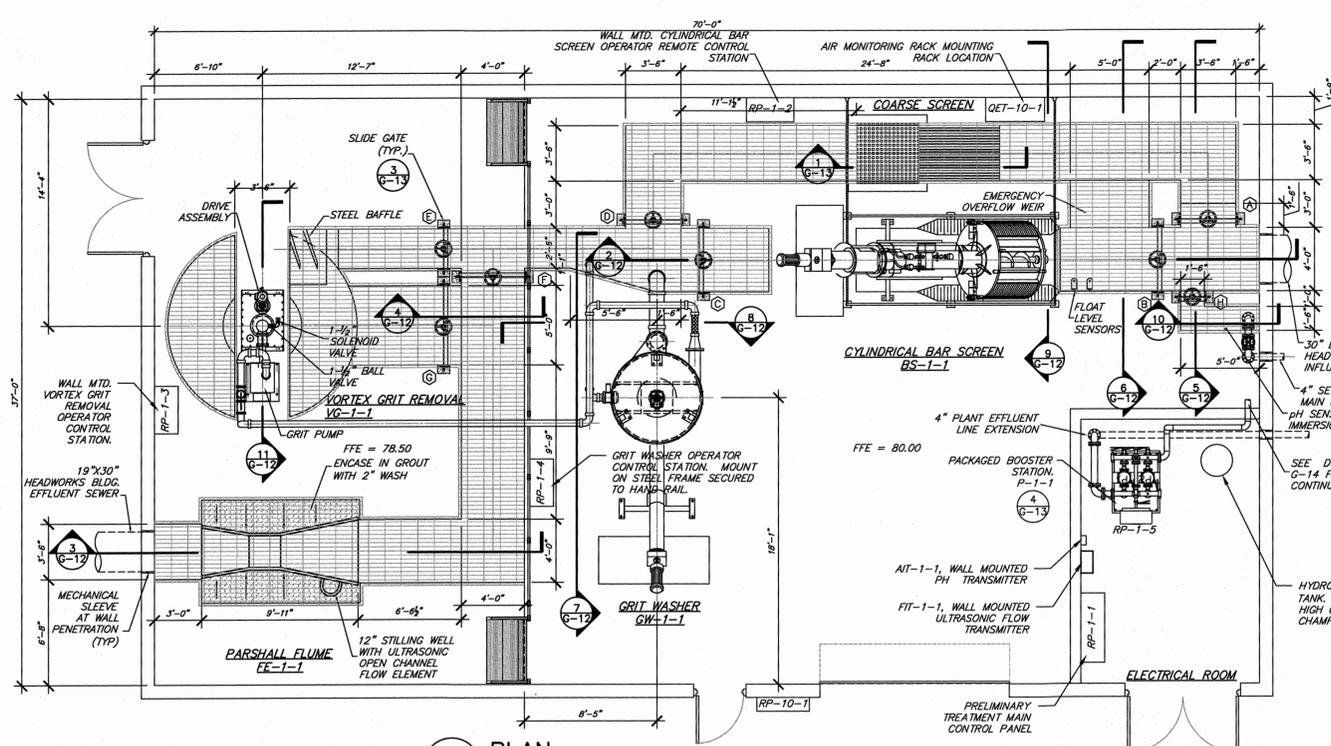
HEADWORKS BUILDING DETAILS

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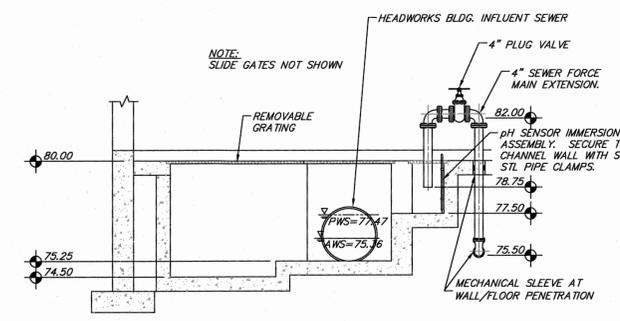
MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elys Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411 Fax No. (845) 473-1962

54 Green Street Hudson, New York 12534
Phone No. (518) 828-2300 Fax No. (518) 828-3963

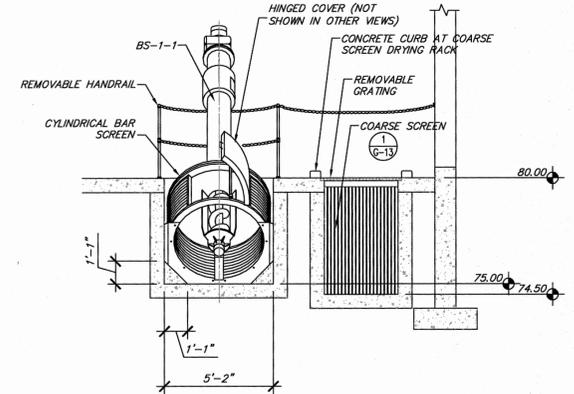
DATE	SCALE	DESIGNED BY	FILE No.
01/15/14	AS SHOWN	MA - RJJ	60401.30
		DRAWN BY	DRAWING No.
		MA - RJJ / JFL	G-10



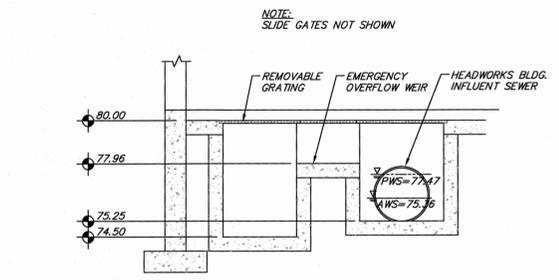
1 PLAN
G-12 SCALE: 3/16" = 1'-0"



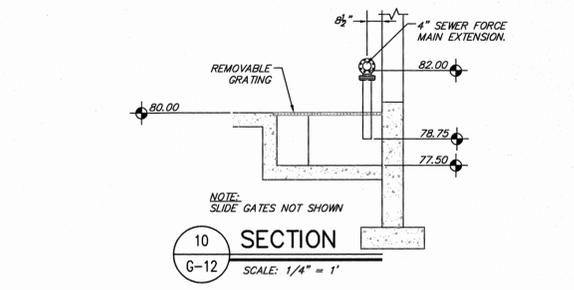
5 SECTION
G-12 SCALE: 1/4" = 1'



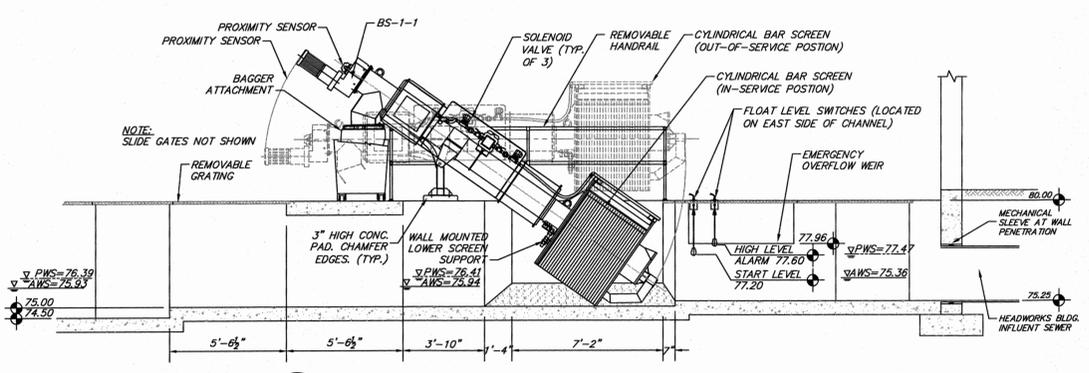
9 SECTION AT CYLINDRICAL BAR SCREEN/COARSE SCREEN
G-12 SCALE: 1/4" = 1'



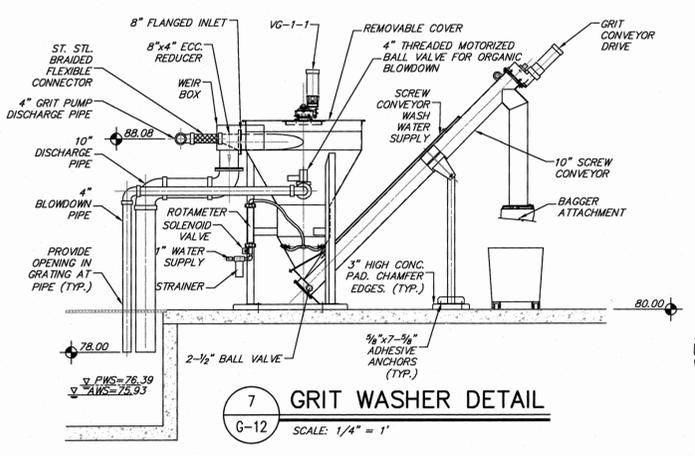
6 SECTION AT EMERGENCY OVERFLOW WEIR
G-12 SCALE: 1/4" = 1'



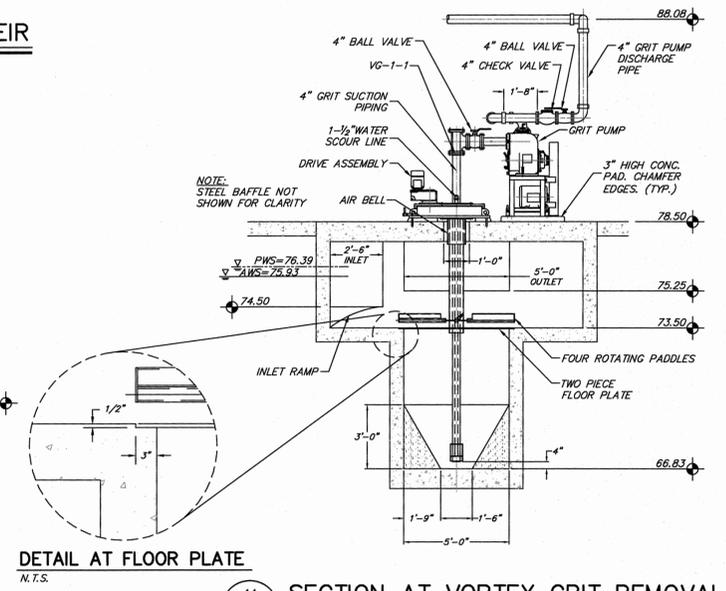
10 SECTION
G-12 SCALE: 1/4" = 1'



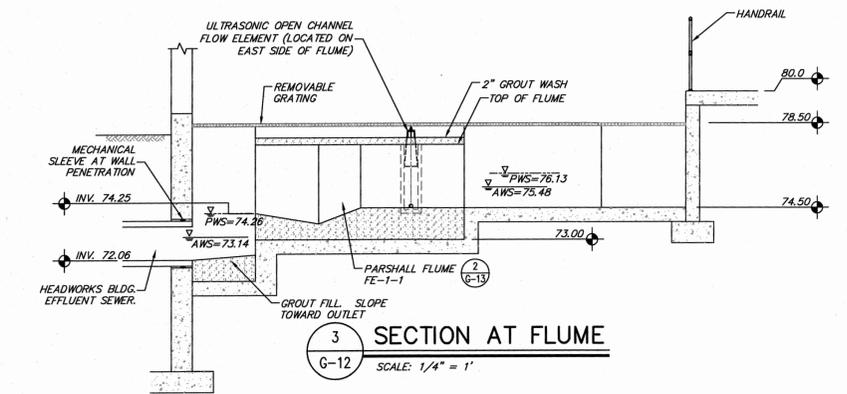
2 SECTION AT CYLINDRICAL BAR SCREEN
G-12 SCALE: 1/4" = 1'



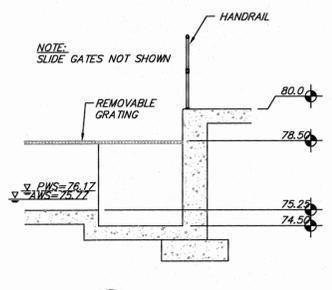
7 GRIT WASHER DETAIL
G-12 SCALE: 1/4" = 1'



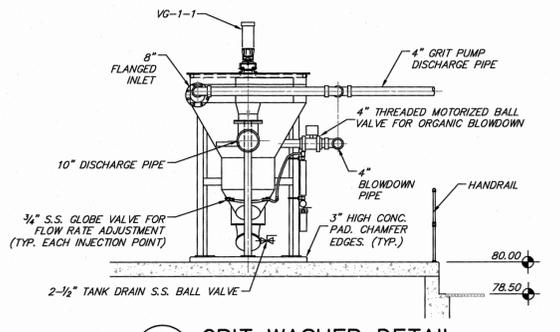
DETAIL AT FLOOR PLATE
N.T.S.



3 SECTION AT FLUME
G-12 SCALE: 1/4" = 1'



4 SECTION
G-12 SCALE: 1/4" = 1'



8 GRIT WASHER DETAIL
G-12 SCALE: 1/4" = 1'

11 SECTION AT VORTEX GRIT REMOVAL
G-12 SCALE: 1/4" = 1'

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/29/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

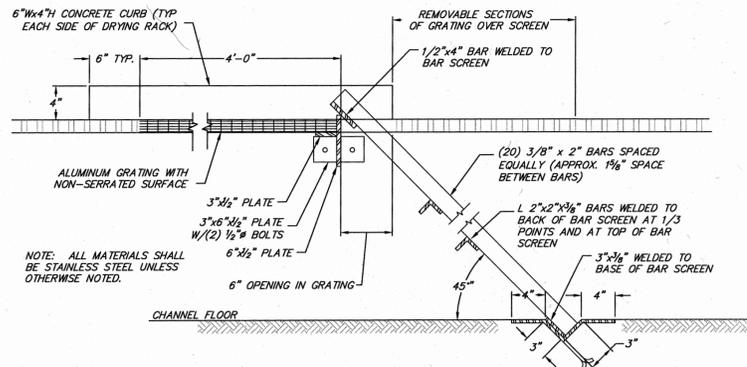
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

HEADWORKS BUILDING PROCESS PLAN AND DETAILS

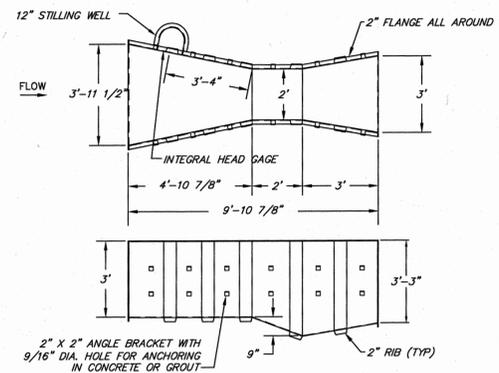
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9 Elks Lane, Poughkeepsie, New York 12601
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DATE	SCALE	DESIGNED BY	FILE No.
01/15/14	AS SHOWN	MA - RJJ	60401.30

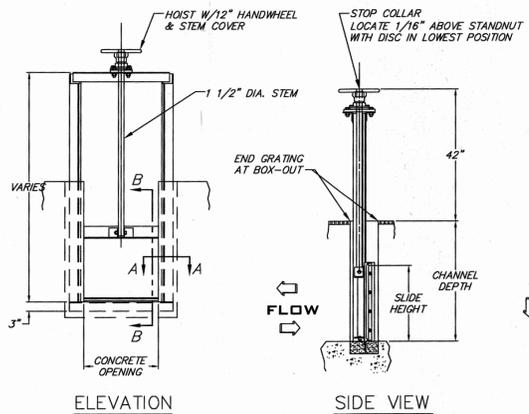
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1 COARSE SCREEN DETAIL
G-13 NTS



2 PARSHALL FLUME DETAIL
G-13 NTS

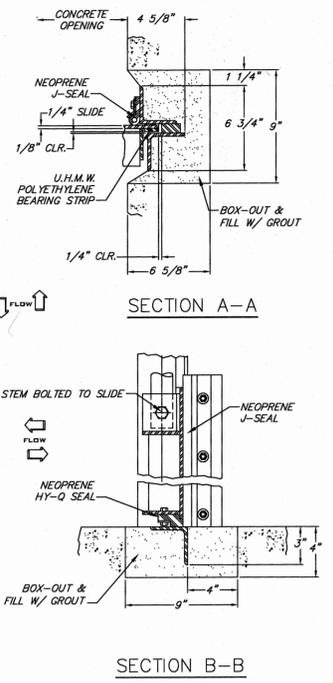


SLIDE GATE SCHEDULE

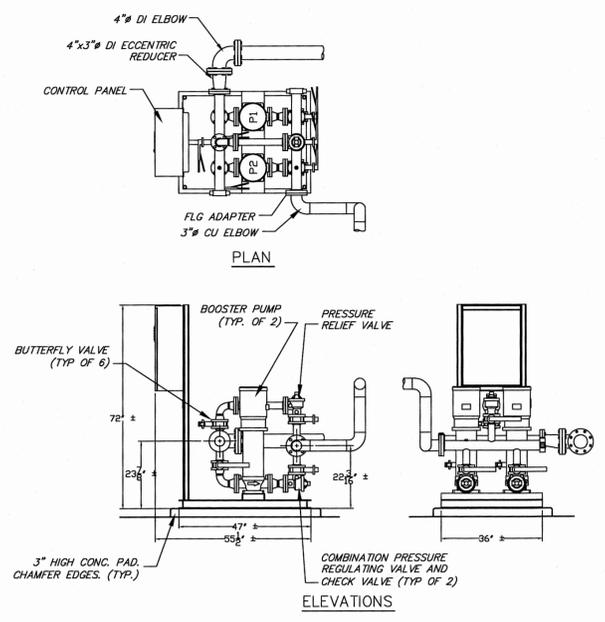
SLIDE GATE I.D.	CONCRETE OPENING, FT.	CHANNEL DEPTH, FT.	SLIDE HEIGHT, FT.
A	3'-6"	5'-0"	2'-9"
B	4'-0"	5'-0"	2'-9"
C	4'-0"	5'-0"	2'-3"
D	3'-6"	5'-6"	2'-9"
E	2'-6"	4'-0"	2'-9"
F	4'-0"	4'-0"	2'-9"
G	5'-0"	3'-3"	2'-0"
H**	1'-6"	2'-6"	1'-6"

** PROVIDE A 1'-0" W x 0'-6" H WEIR OPENING IN GATE H (SEE DETAIL)

3 SLIDE GATE DETAIL
G-13 NTS

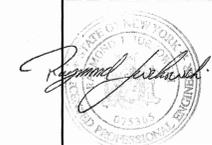


SECTION B-B



4 PACKAGED BOOSTER STATION, P-8-2
G-13 NTS

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/29/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	8/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

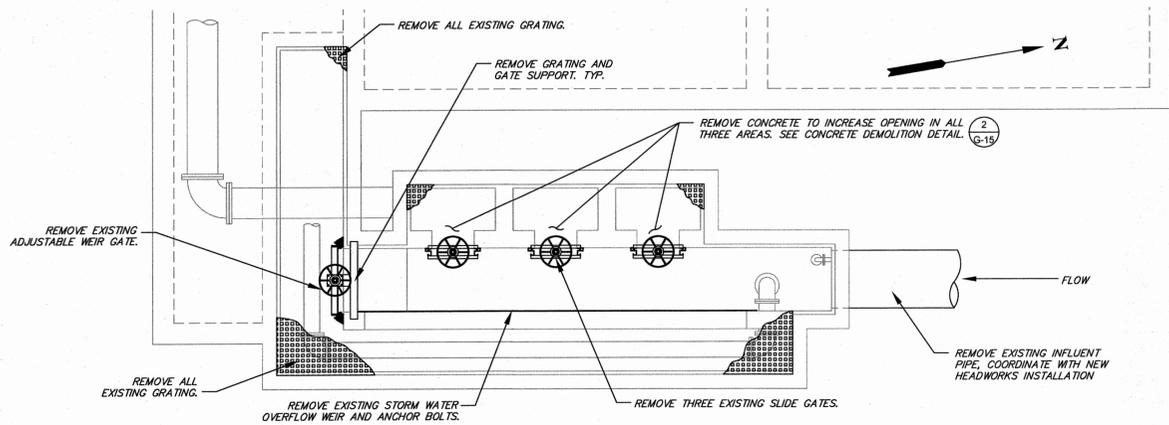


ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

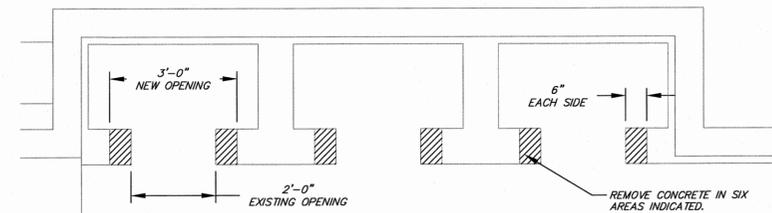
HEADWORKS BUILDING PROCESS DETAILS

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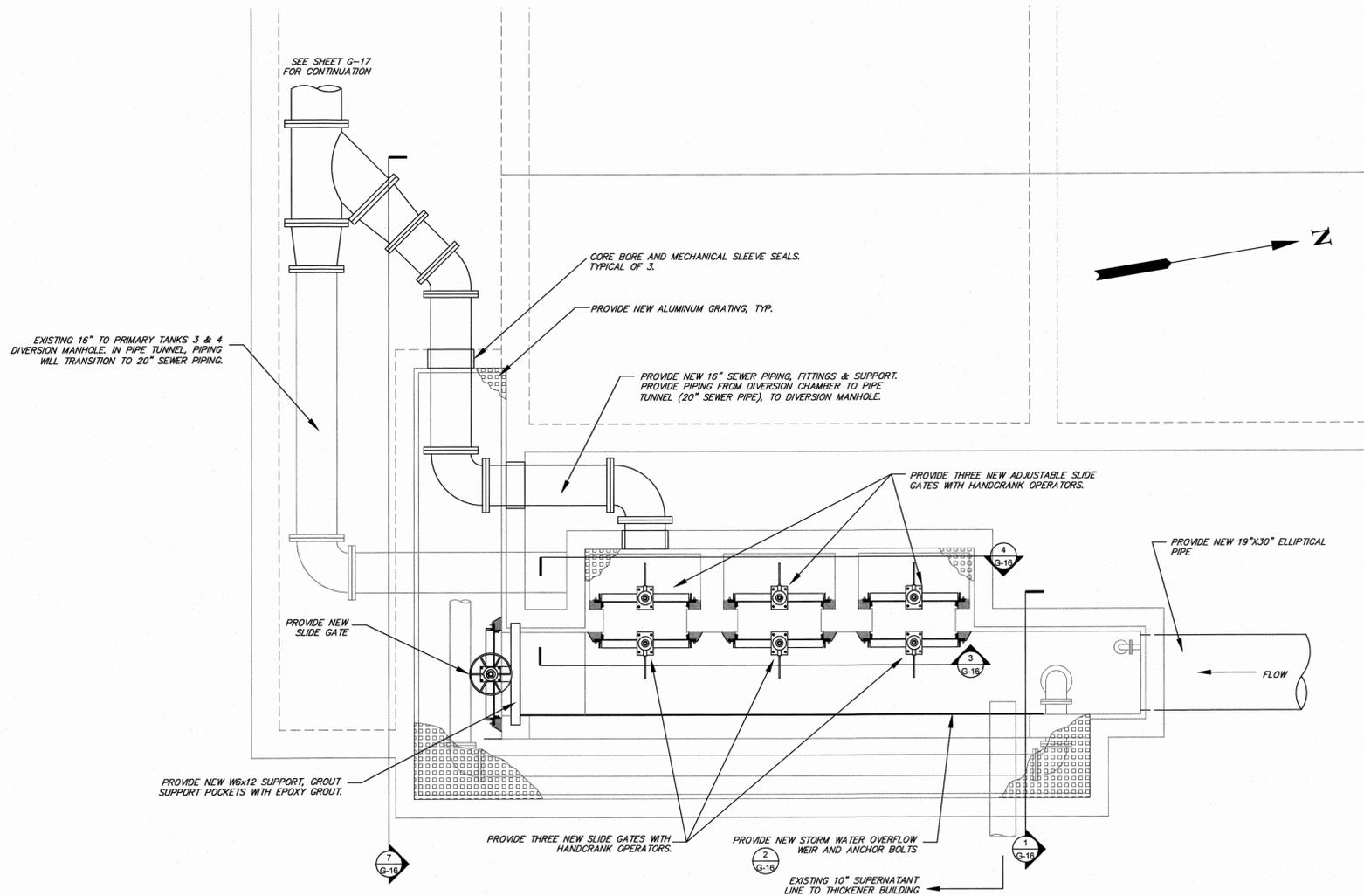
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-13



1 DEMOLITION PLAN
G-15 SCALE: 1/4"=1'-0"

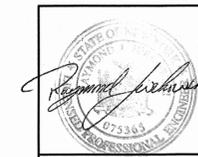


2 CONCRETE DEMOLITION DETAIL
G-15 SCALE: 1/2"=1'-0"



4 PLAN
G-15 SCALE: 3/8"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	03/01/14	MA



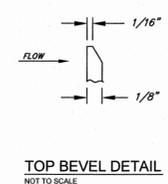
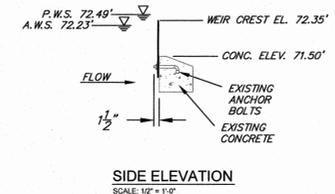
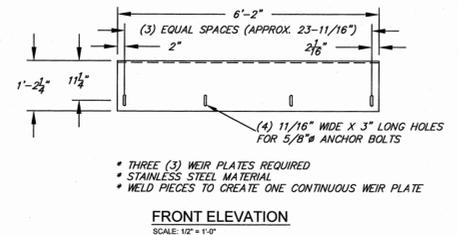
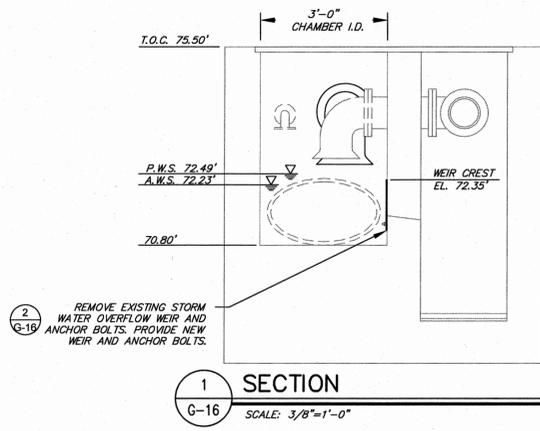
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

DIVERSION CHAMBER NO. 1 PLANS & SECTIONS

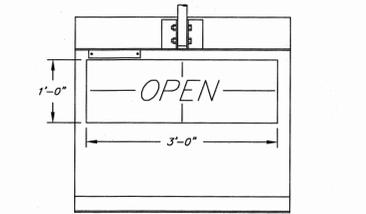
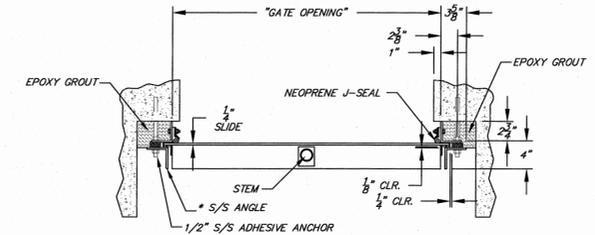
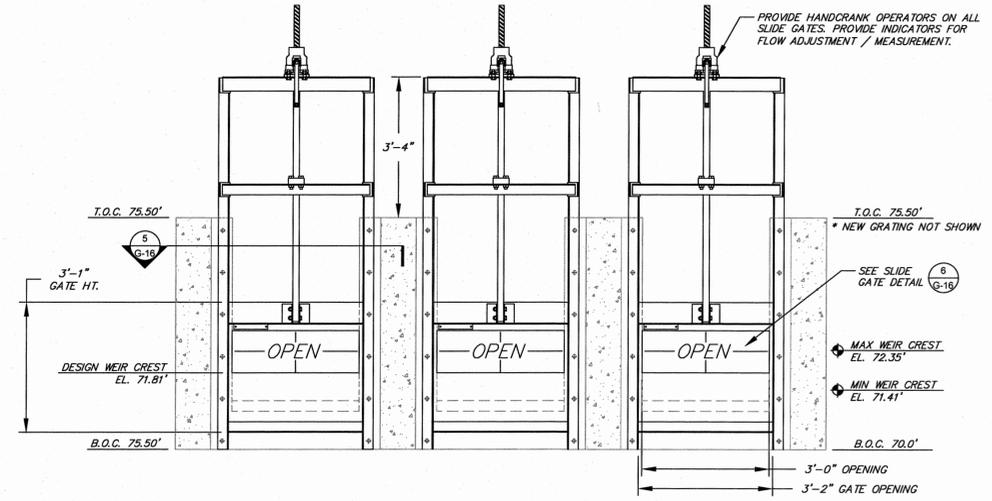
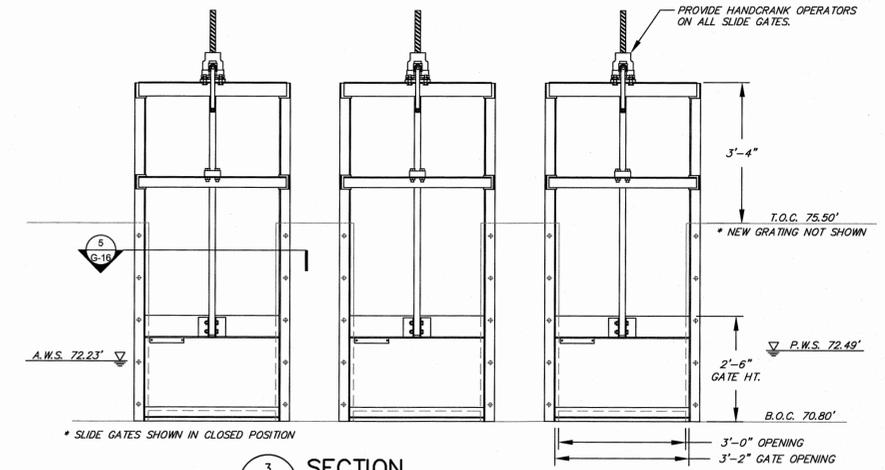
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DATE	SCALE	DESIGNED BY	CHECKED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	MA - RJJ/JFL	60401.30	G-15

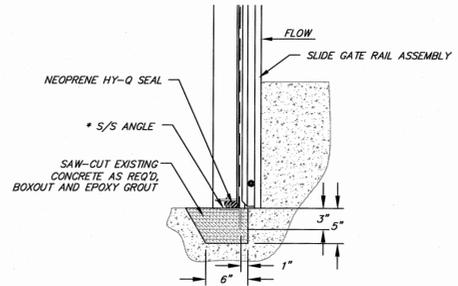
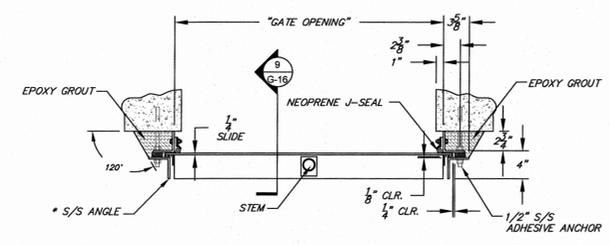
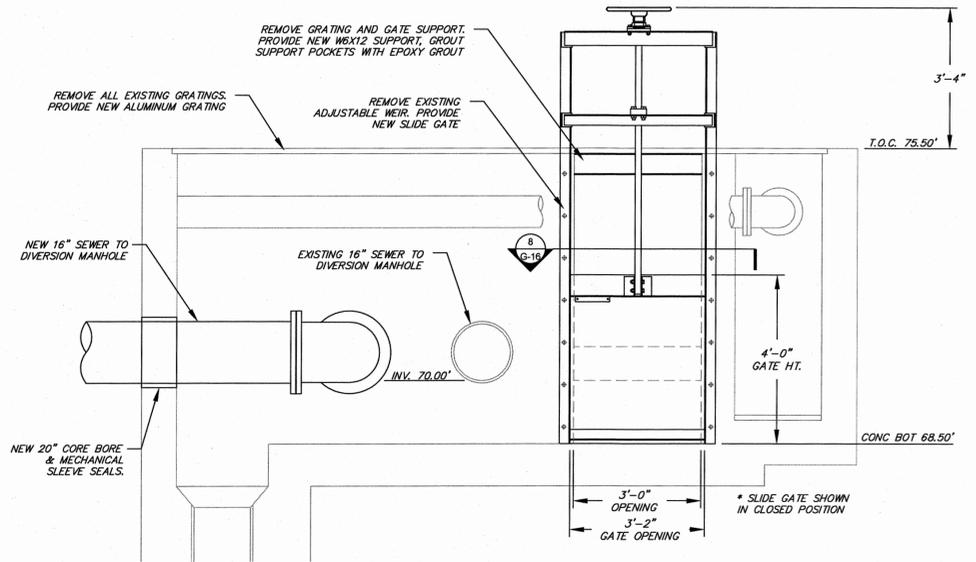


2 OVERFLOW WEIR DETAILS
G-16 SCALE: AS SHOWN



5 SLIDE GATE MOUNTING DETAIL
G-16 SCALE: 1"=1'-0"

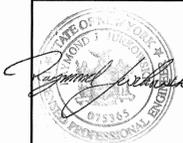
6 SLIDE GATE DETAIL
G-16 SCALE: 3/4"=1'-0"



8 SLIDE GATE MOUNTING DETAIL
G-16 SCALE: 1"=1'-0"

9 SLIDE GATE MOUNTING DETAIL
G-16 SCALE: 1"=1'-0"

5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



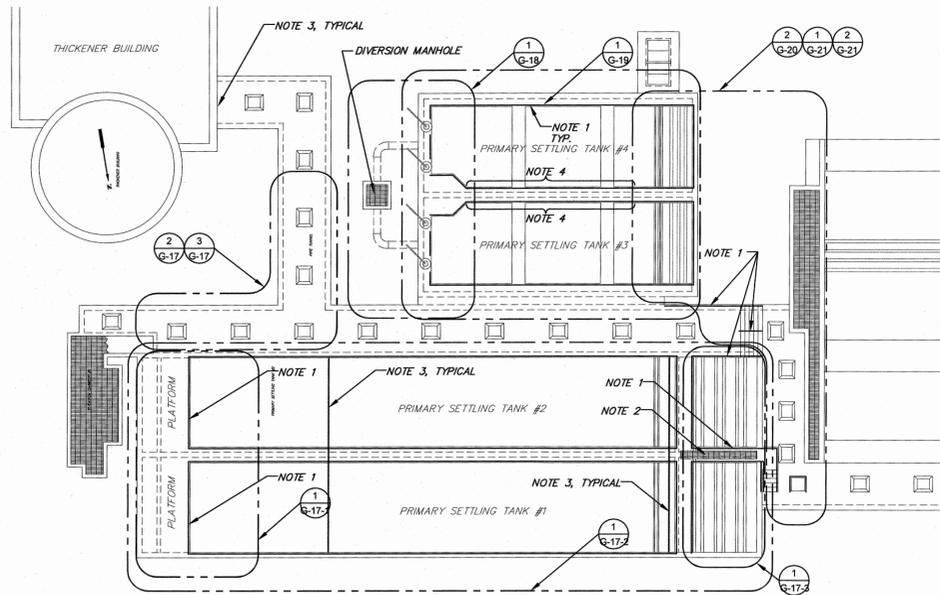
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

DIVERSION CHAMBER NO. 1 SECTIONS & DETAILS

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9 EKS Lane, Poughkeepsie, New York 12601
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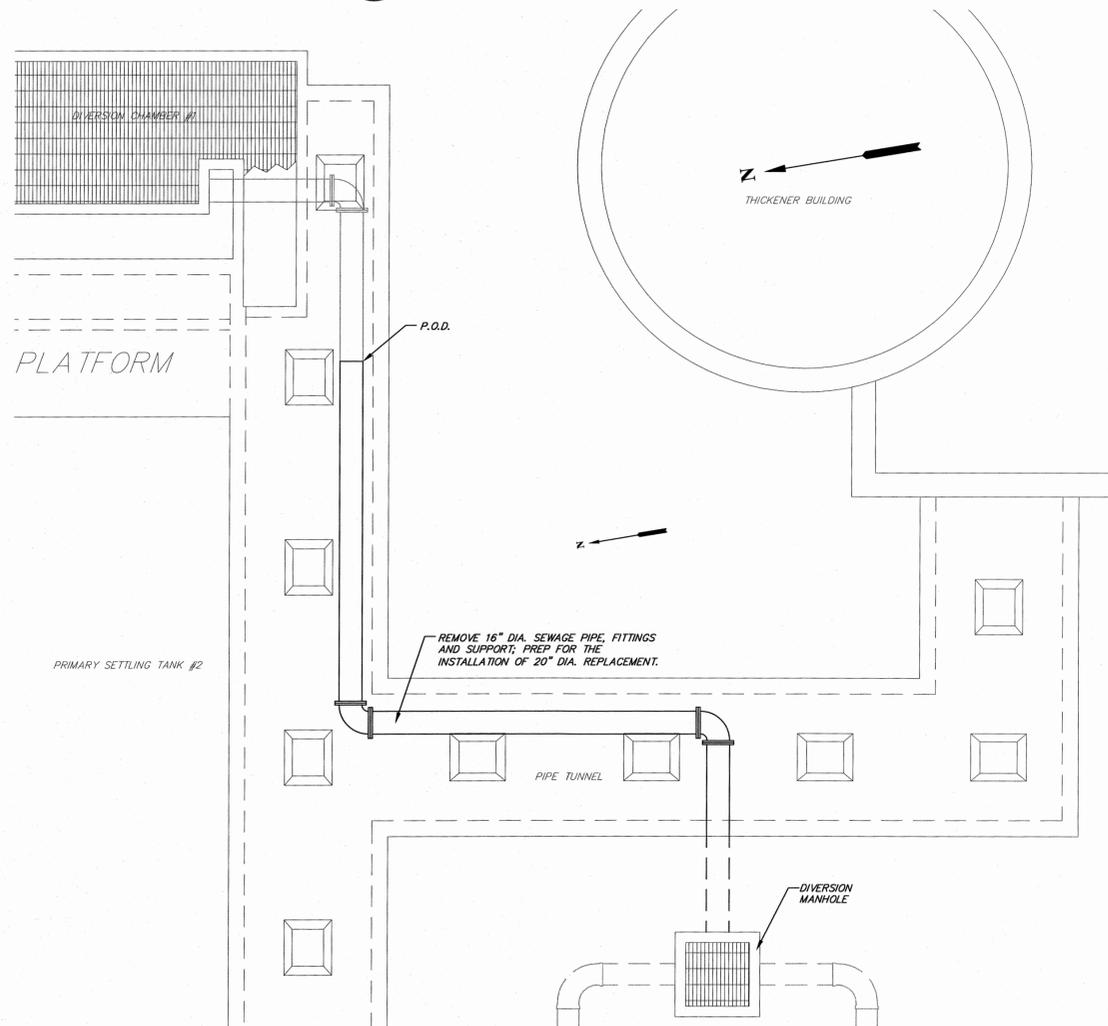
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-16
		CHECKED BY		
		MA - RJJ/JFL		

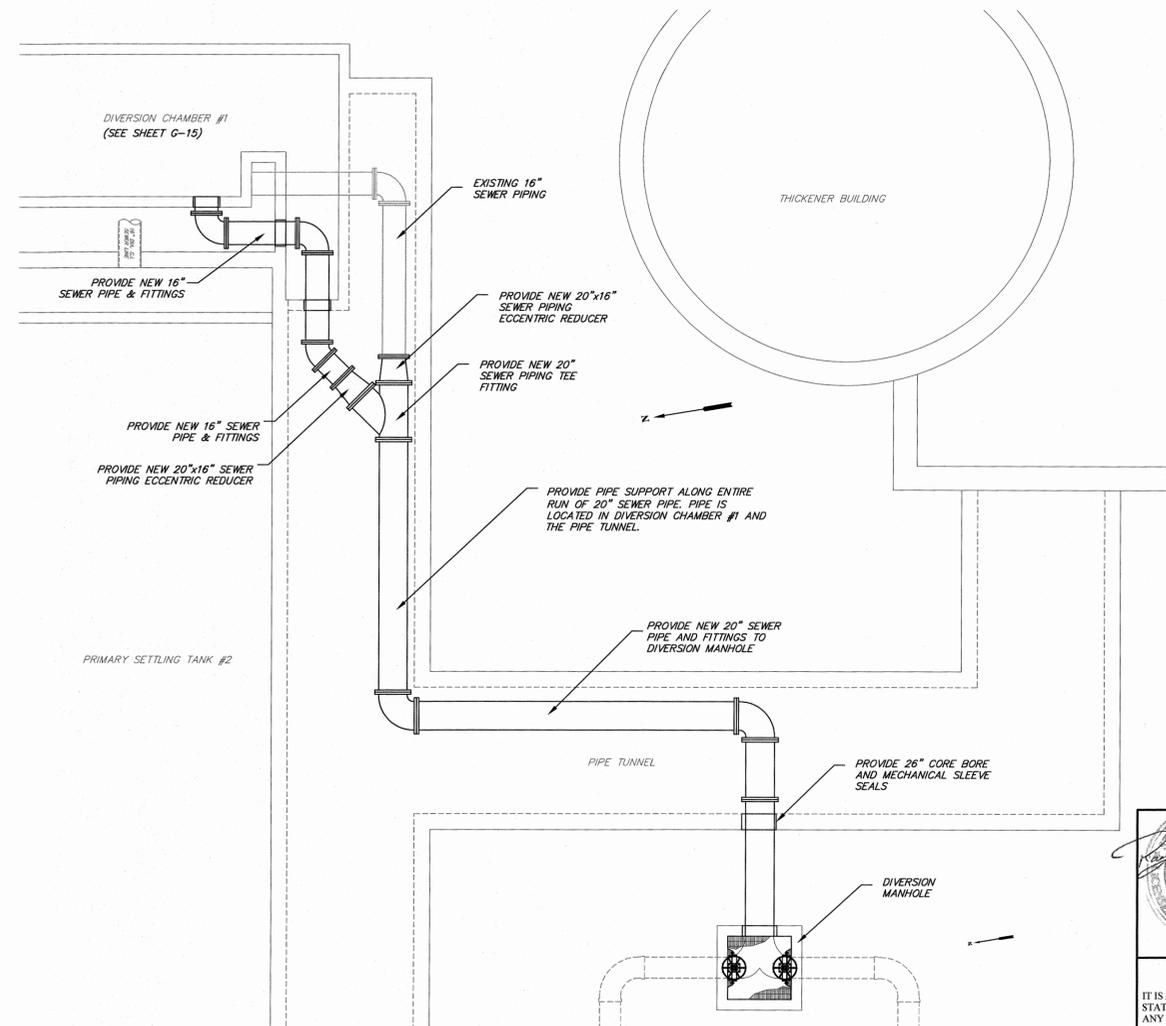


- NOTES:**
1. REMOVE ALL EXISTING RAILINGS AND HARDWARE AND PROVIDE NEW TYPE 1 RAILINGS.
 2. REMOVE ALL EXISTING GRATINGS AND PROVIDE NEW ALUMINUM GRATINGS.
 3. REPAIR EXISTING EXPANSION JOINTS IN ACCORDANCE WITH DETAILS ON CONTRACT DRAWINGS.
 4. PROVIDE NEW TYPE 1 RAILINGS.
 5. REPAIR ALL CRACKS AND SPALLING IN ACCORDANCE WITH DIVISION 3 REQUIREMENTS.

1 KEY PLAN
G-17 SCALE: 1/16"=1'-0"

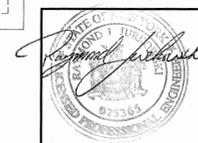


2 DEMOLITION PLAN
G-17 SCALE: 1/4"=1'-0"



3 INLET PIPING PLAN
G-17 SCALE: 1/4"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/09/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

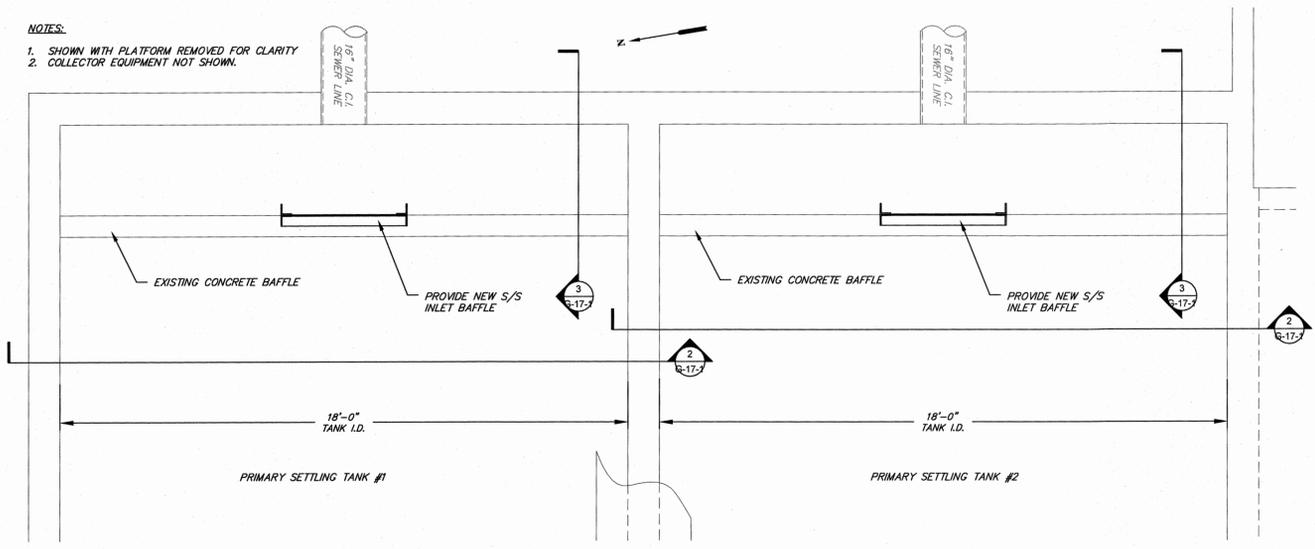
PRIMARY SETTLING TANKS KEY PLAN AND INLET PIPING PLANS

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64 Green Street, Hudson, New York 12534
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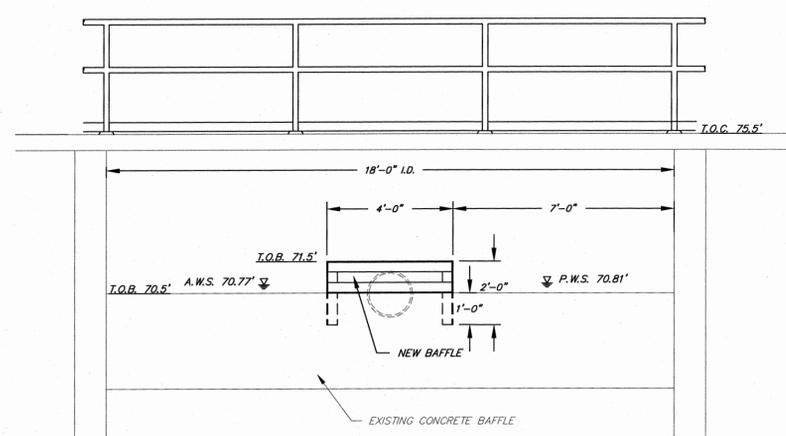
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ DRAWN BY: MA CHECKED BY: MA - RJJ/JFL	60401.30	G-17

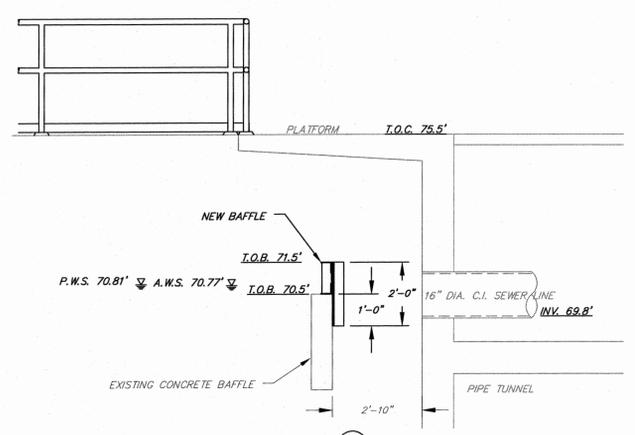
NOTES:
 1. SHOWN WITH PLATFORM REMOVED FOR CLARITY
 2. COLLECTOR EQUIPMENT NOT SHOWN.



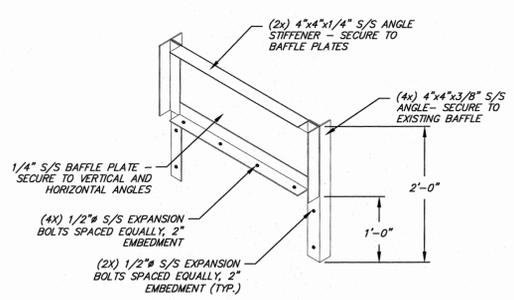
1 PARTIAL PLAN
 G-17-1 SCALE: 3/8"=1'-0"



2 SECTION
 G-17-1 SCALE: 3/8"=1'-0"



3 SECTION
 G-17-1 SCALE: 3/8"=1'-0"



4 BAFFLE DETAIL
 G-17-1 SCALE: NONE

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
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2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PRIMARY SETTLING TANKS TANK #1 AND #2 INLET PLANS/DETAILS

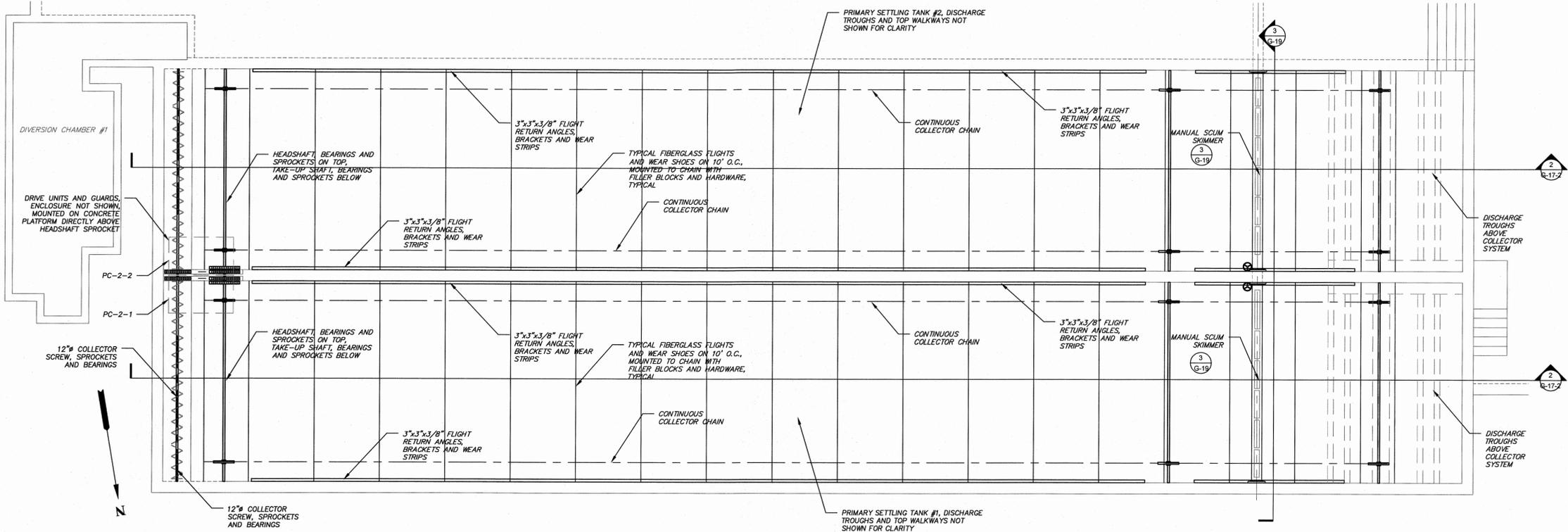
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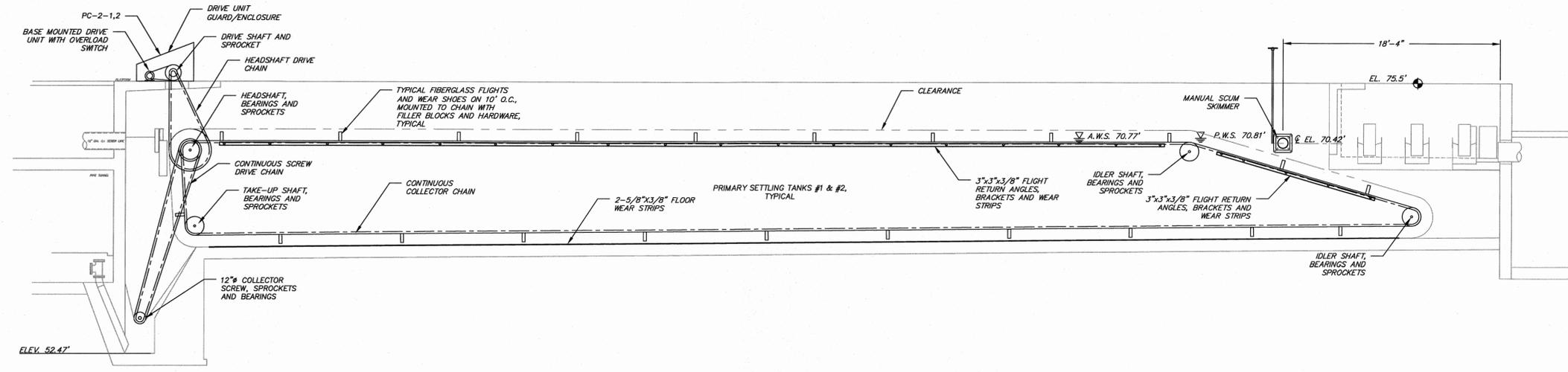
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-17-1

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1 TANK #1 AND #2 PLAN
 G-17-2 SCALE: 3/16"=1'-0"



2 TANK #1 AND #2 SECTION, TYPICAL
 G-17-2 SCALE: 3/16"=1'-0"

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	8/30/14	MA
REV No	DESCRIPTION	DATE	BY



Raymond J. Jell
 PROFESSIONAL ENGINEER
 No. 10866

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PRIMARY SETTLING TANKS
TANK #1 AND #2 COLLECTORS



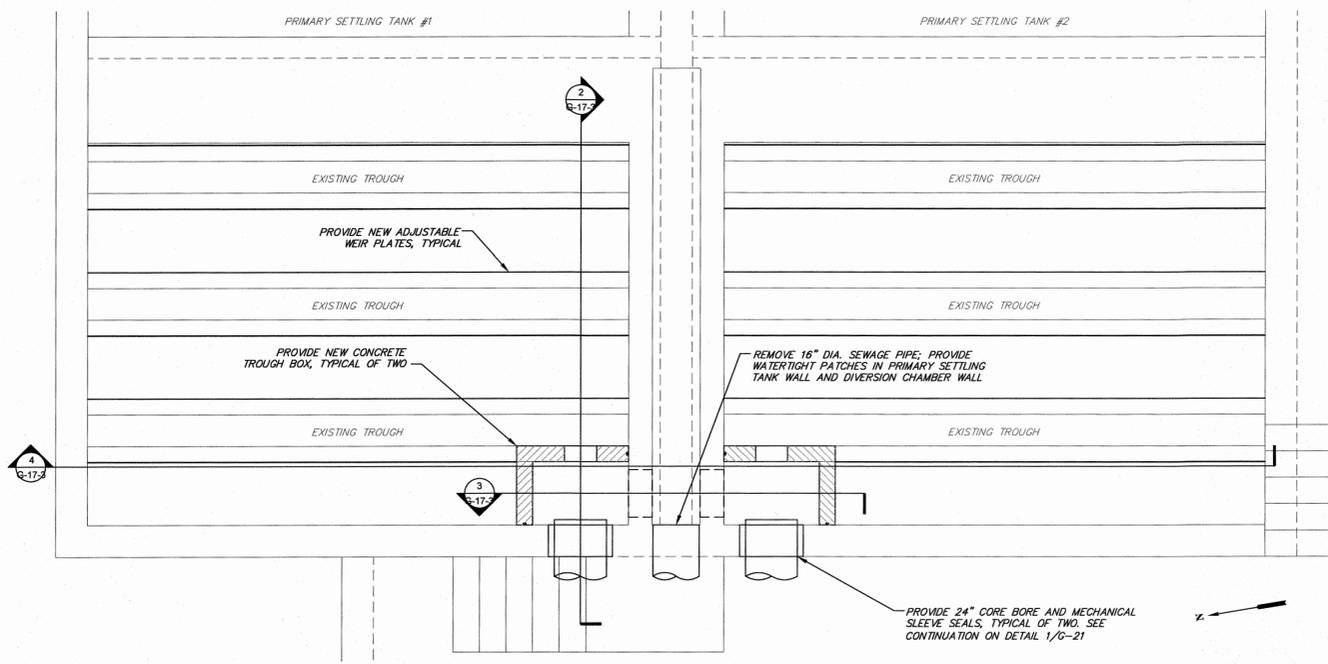
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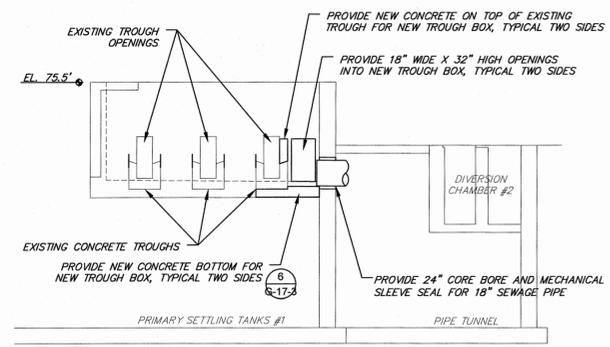
64 Green Street, Hudson, New York 12534
 Phone No. (518) 528-2300 Fax No. (518) 828-3963

DATE 01/15/14	SCALE AS SHOWN	DESIGNED BY MA - RJJ	FILE No. 60401.30	DRAWING No. G-17-2
		DRAWN BY MA - RJJ/JFL		
		CHECKED BY MA - RJJ/JFL		

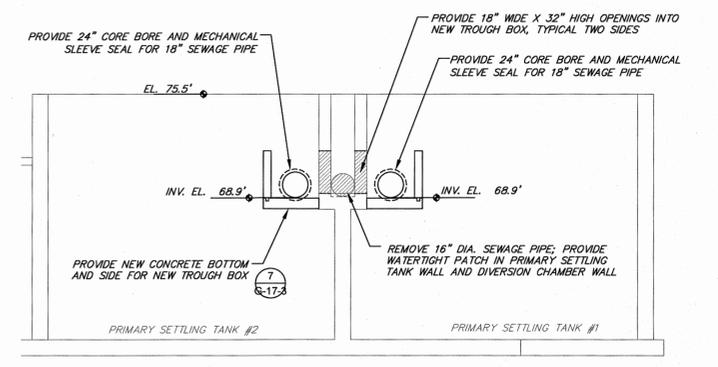
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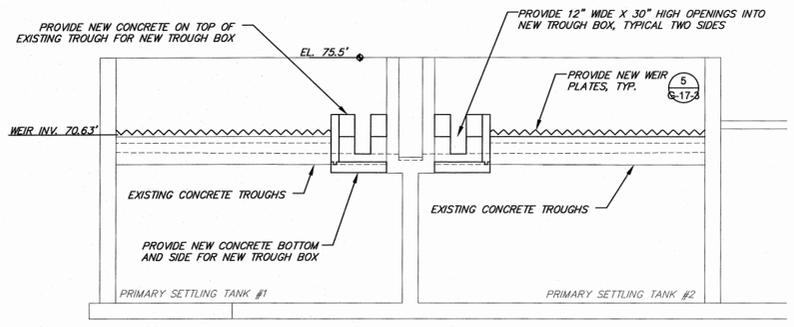
1 TANK #1 AND #2 PARTIAL PLAN
 G-17-3 SCALE: 3/8"=1'-0"



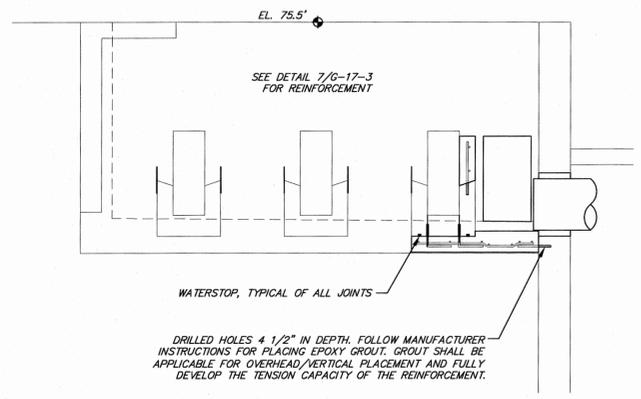
2 SECTION
 G-17-3 SCALE: 3/16"=1'-0"



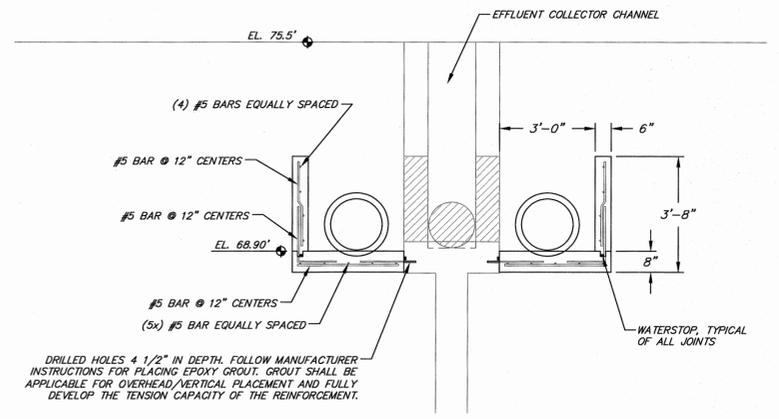
3 SECTION
 G-17-3 SCALE: 3/16"=1'-0"



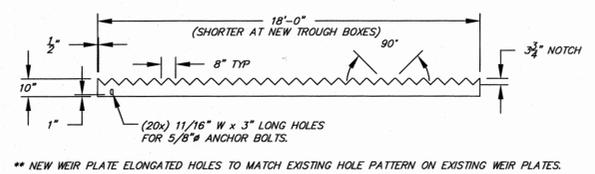
4 SECTION
 G-17-3 SCALE: 3/16"=1'-0"



6 STEEL REINFORCING BAR DESIGN FOR TROUGH BOX
 G-17-3 SCALE: 3/8"=1'-0"



7 STEEL REINFORCING BAR DESIGN FOR TROUGH BOX
 G-17-3 SCALE: 3/8"=1'-0"



** NEW WEIR PLATE ELONGATED HOLES TO MATCH EXISTING HOLE PATTERN ON EXISTING WEIR PLATES.

5 WEIR DETAIL
 G-17-3 SCALE: 1/4"=1'-0"

5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/25/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



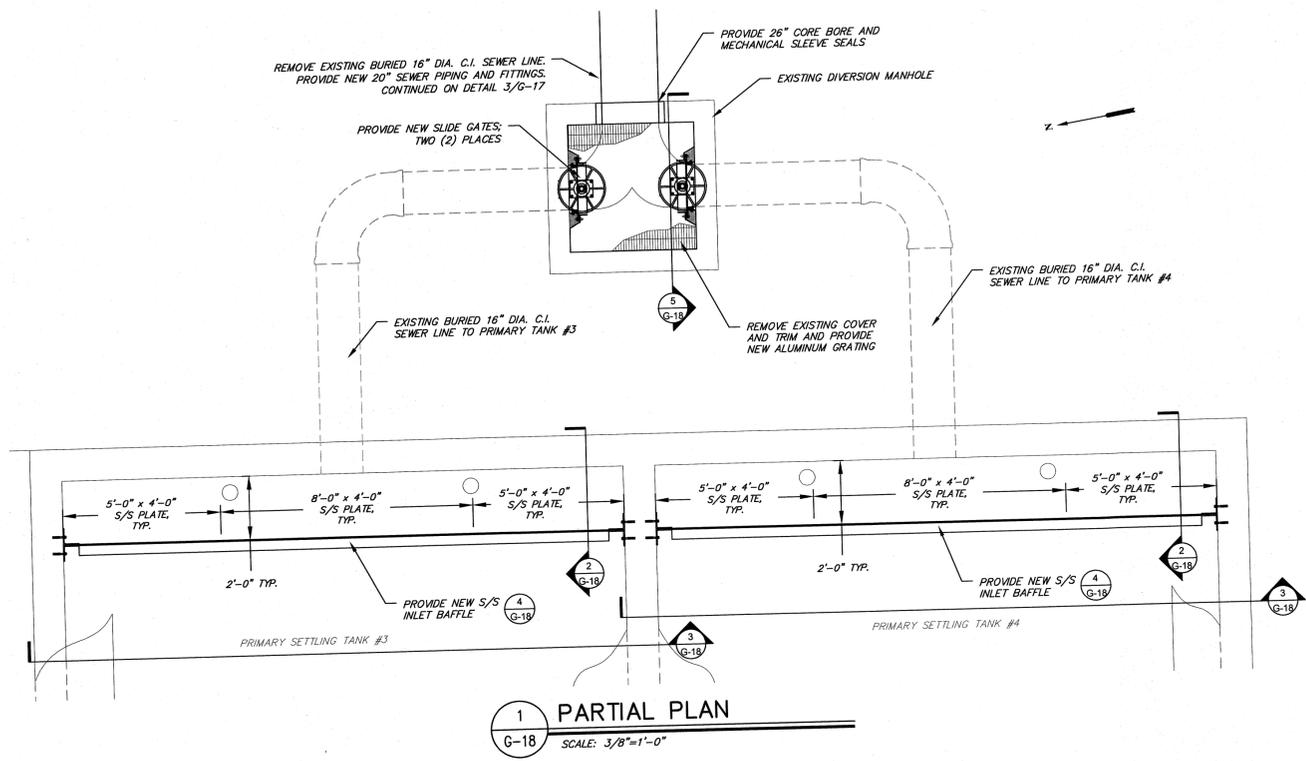
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PRIMARY SETTLING TANKS TANK #1 AND #2 OUTLET PLANS AND DETAILS

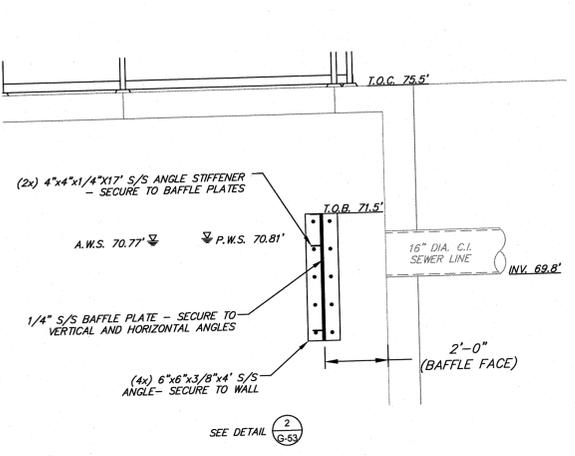
MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
 9 Elk Lane, Poughkeepsie, New York 12601
 Phone No. (845) 454-3411 Fax No. (845) 473-1962
 64 Green Street, Hudson, New York 12534
 Phone No. (518) 828-2300 Fax No. (518) 828-3963

DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-17-3
		DRAWN BY		
		MA - RJJ/JEL		

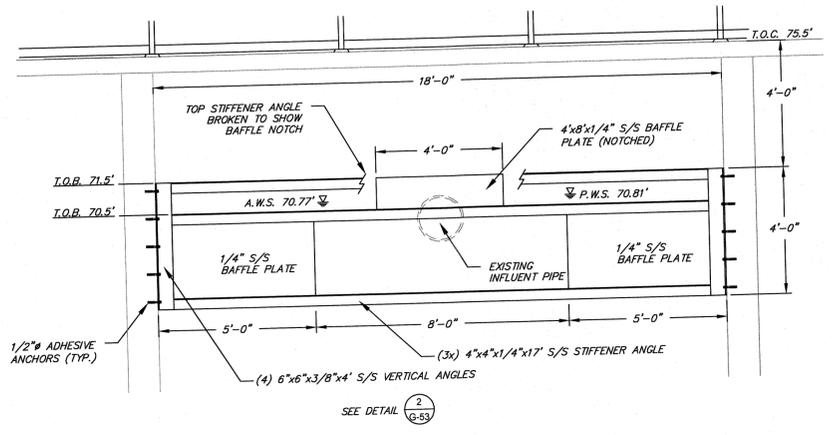
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE PLANS, SPECIFICATIONS OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.



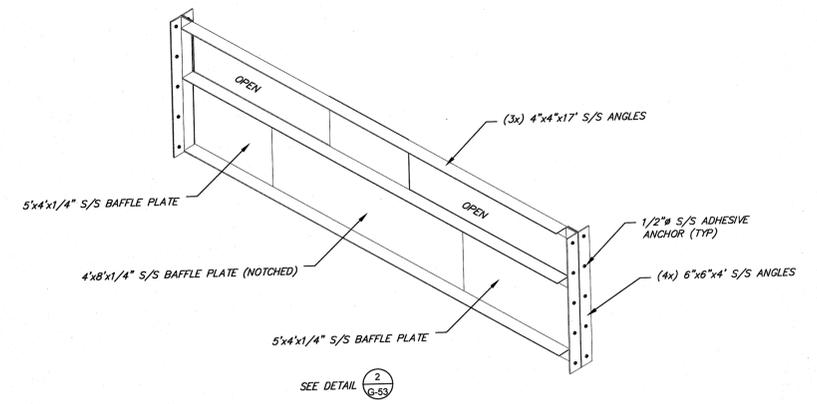
1 PARTIAL PLAN
G-18 SCALE: 3/8"=1'-0"



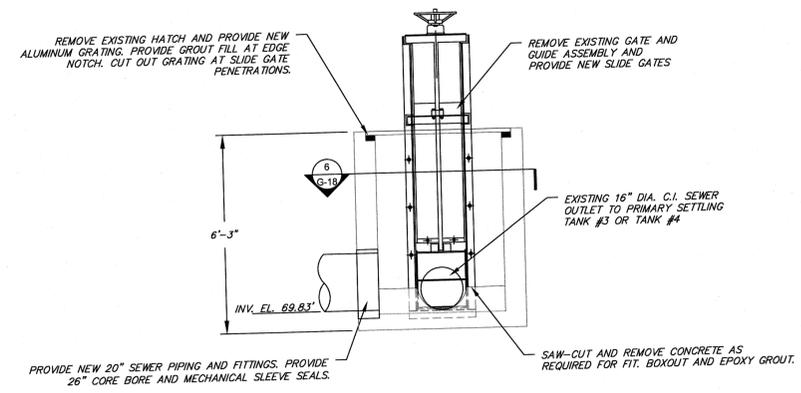
2 SECTION
G-18 SCALE: 3/8"=1'-0"



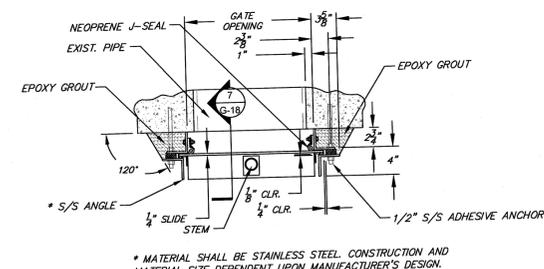
3 SECTION
G-18 SCALE: 3/8"=1'-0"



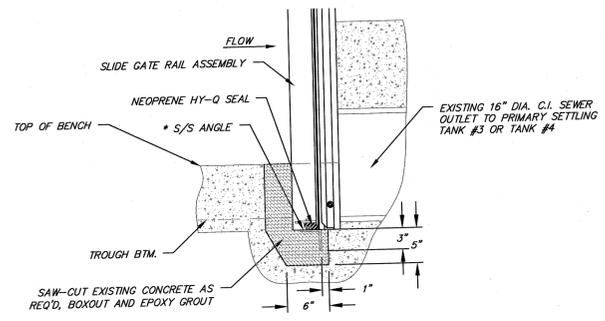
4 BAFFLE DETAIL
G-18 SCALE: NONE



5 SECTION
G-18 SCALE: 3/8"=1'-0"



6 MOUNTING DETAIL
G-18 SCALE: 1"=1'-0"



7 MOUNTING DETAIL
G-18 SCALE: 1"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/02/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

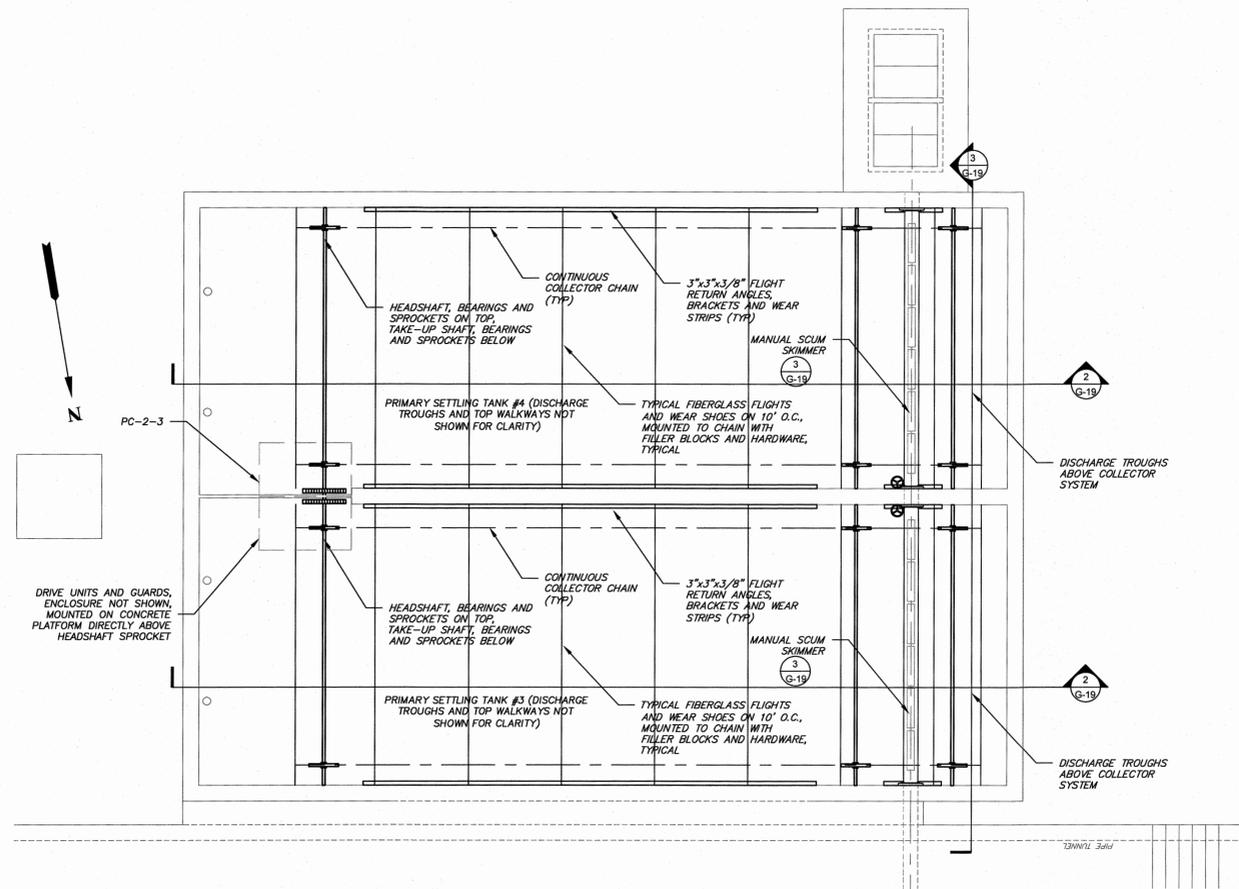


ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY
PRIMARY SETTLING TANKS TANK #3 AND #4 PLANS AND DETAILS

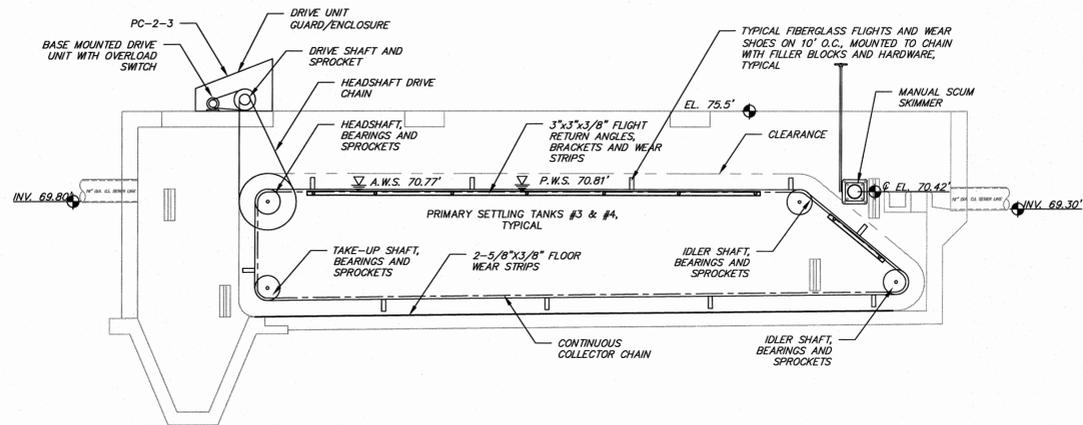
MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elys Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411 Fax No. (845) 473-1962
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJL	60401.30	G-18

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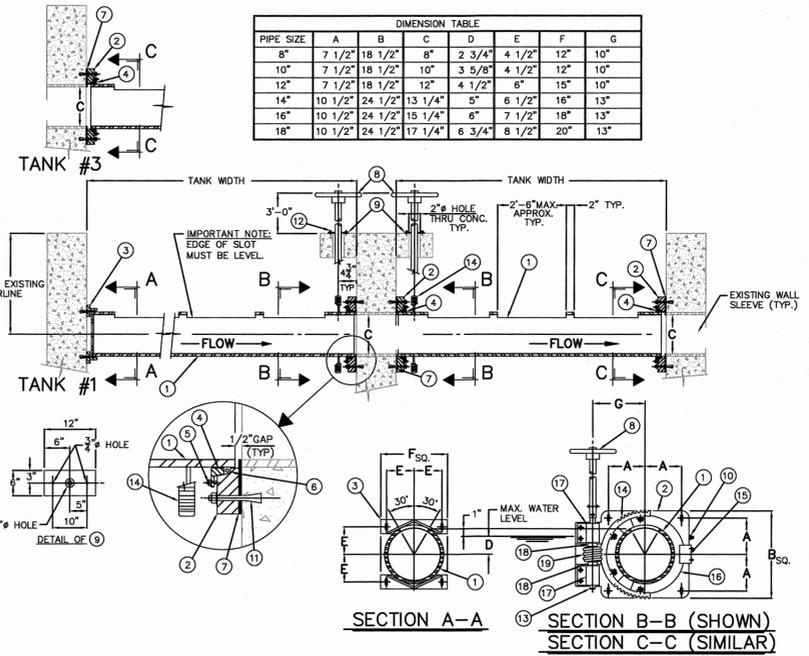
1 TANK #3 AND #4 PLAN
G-19 SCALE: 3/16"=1'-0"



2 TANK #3 AND #4 SECTION, TYPICAL
G-19 SCALE: 3/16"=1'-0"

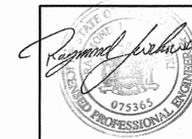
NOMENCLATURE

- 1 SKIMMER PIPE
- 2 WALL BEARING
- 3 END BRACKET
- 4 BEARING SLEEVE
- 5 SEAL TENSION BOLT
- 6 OIL RESISTANT BUNA-N "O" RING SEAL
- 7 1/4" THK. NEOPRENE GASKET
- 8 HANDWHEEL & SHAFT EXTENSION
- 9 SHAFT EXTENSION GUIDE
- 10 GREASE FITTING
- 11 3/4" DIA. x 7" LG. EXP. ANCHOR BOLT, NUT & WASHER x 3 7/8" EMBEDMENT (4-REQ'D. PER EA. WALL BEARING AND END BRACKET)
- 12 5/8" DIA. x 4 1/2" LG. EXP. ANCHOR BOLT, NUT & WASHER x 3 1/2" EMBEDMENT (2-REQ'D. PER EA. SHAFT EXTENSION GUIDE)
- 13 WORM SHAFT
- 14 WORM GEAR
- 15 RETAINER
- 16 GUIDE LUG
- 17 BABBITTED BEARING
- 18 SPACER
- 19 WORM



3 SCUM SKIMMER DETAIL
G-19 N.T.S.

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/09/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



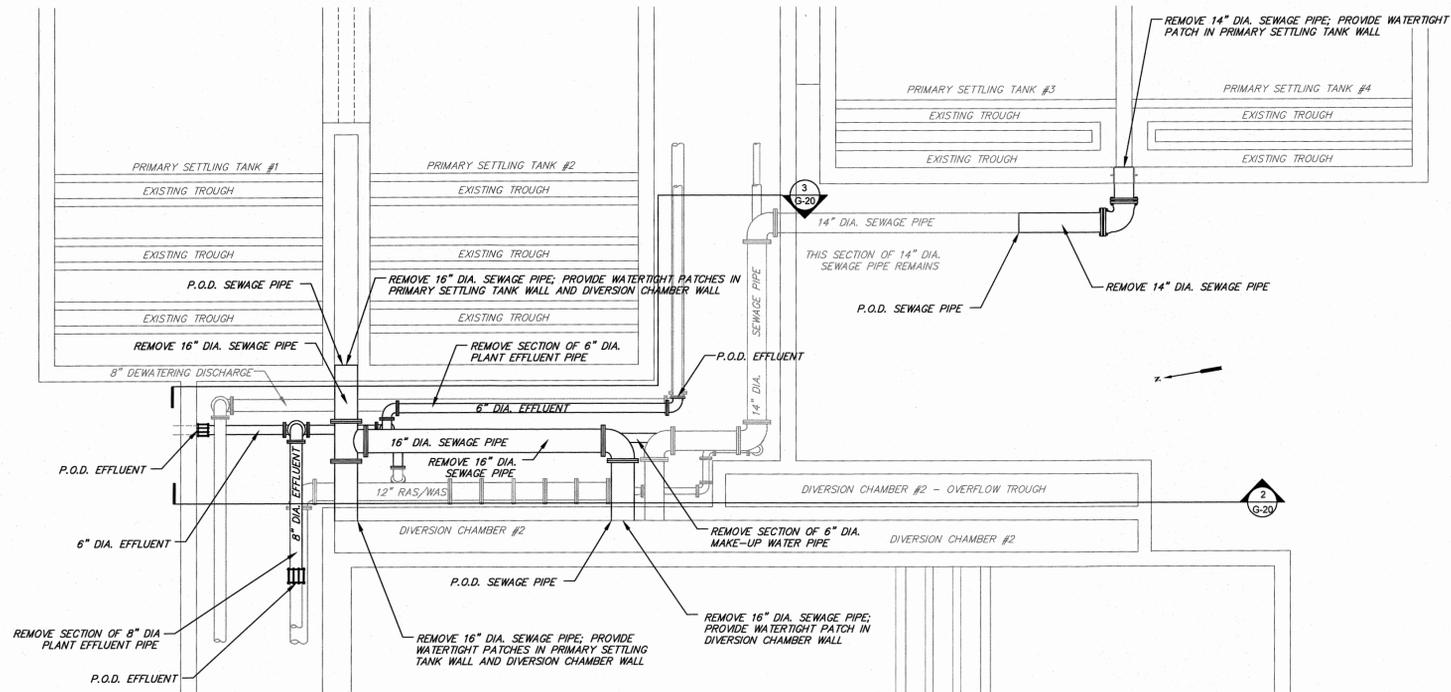
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PRIMARY SETTLING TANKS
TANK #3 AND #4 COLLECTORS

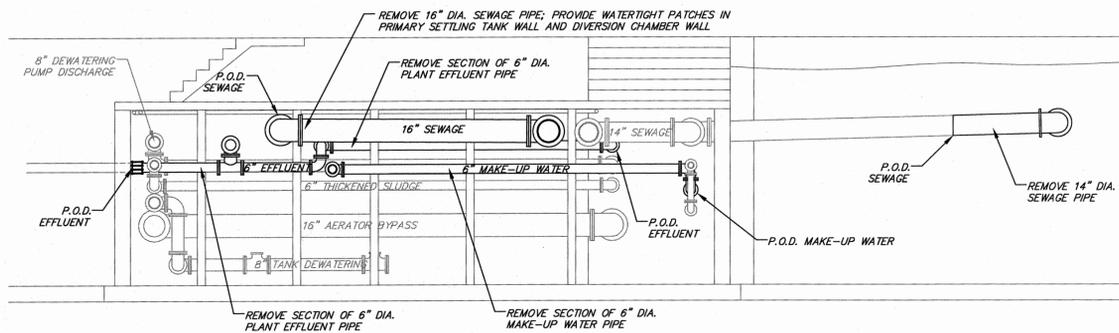
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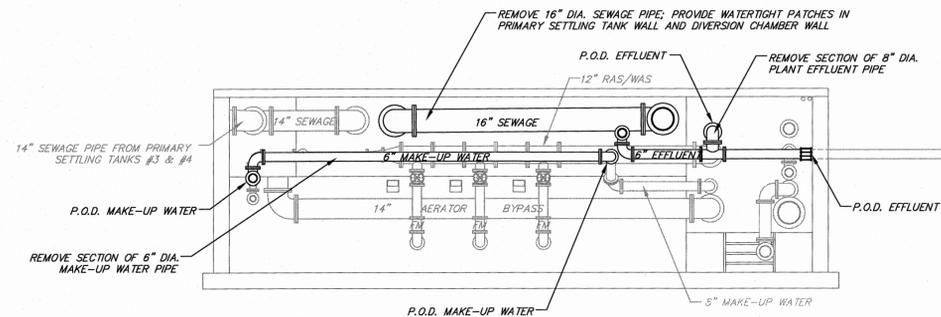
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-19



1 DEMOLITION PLAN
G-20 SCALE: 3/16"=1'-0"



2 SECTION
G-20 SCALE: 3/16"=1'-0"



3 SECTION
G-20 SCALE: 3/16"=1'-0"

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY

Reginald J. J. [Signature]

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

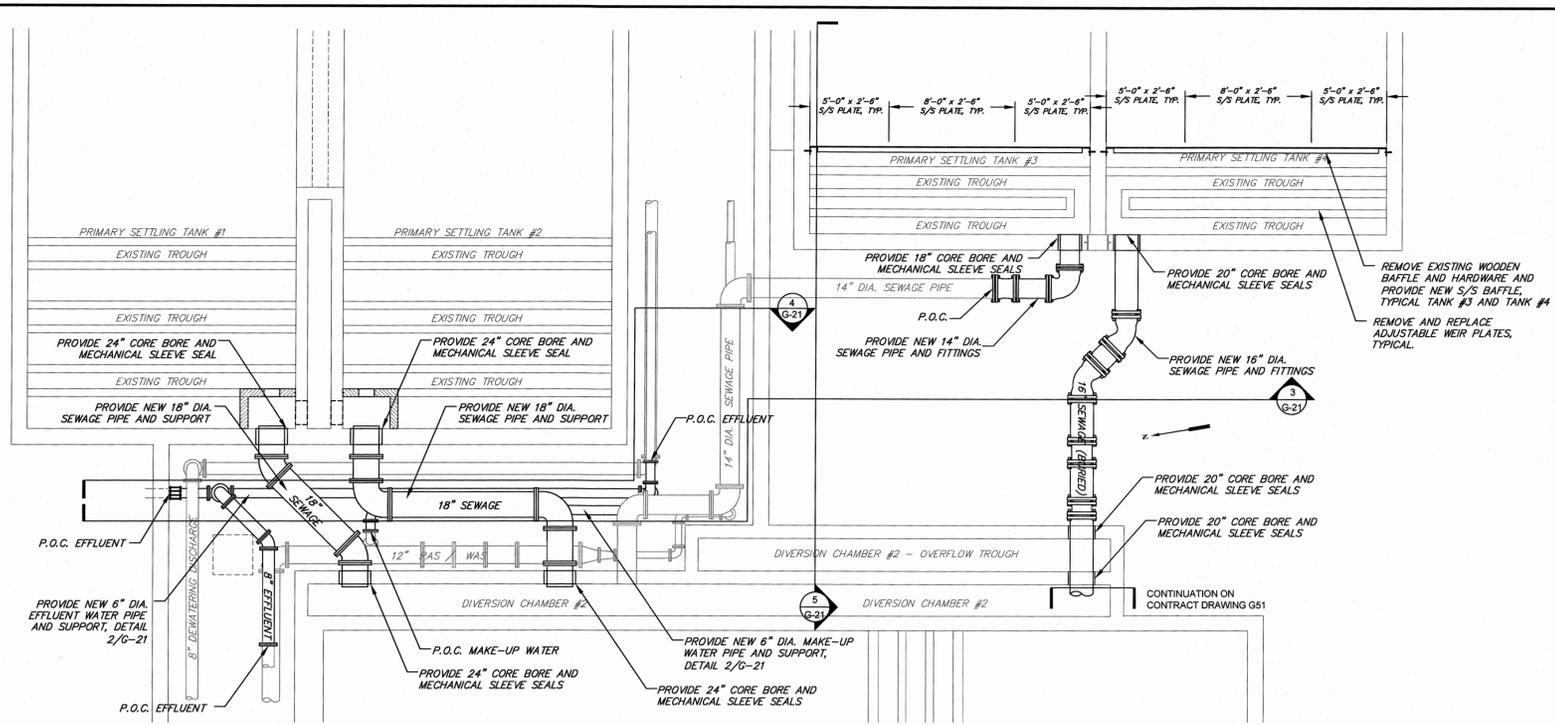
PRIMARY SETTLING TANKS DISCHARGE PIPING DEMOLITION

MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 ELS LANE, POUGHKEEPSIE, NEW YORK 12601
PHONE NO. (845) 454-3411 FAX NO. (845) 473-1962

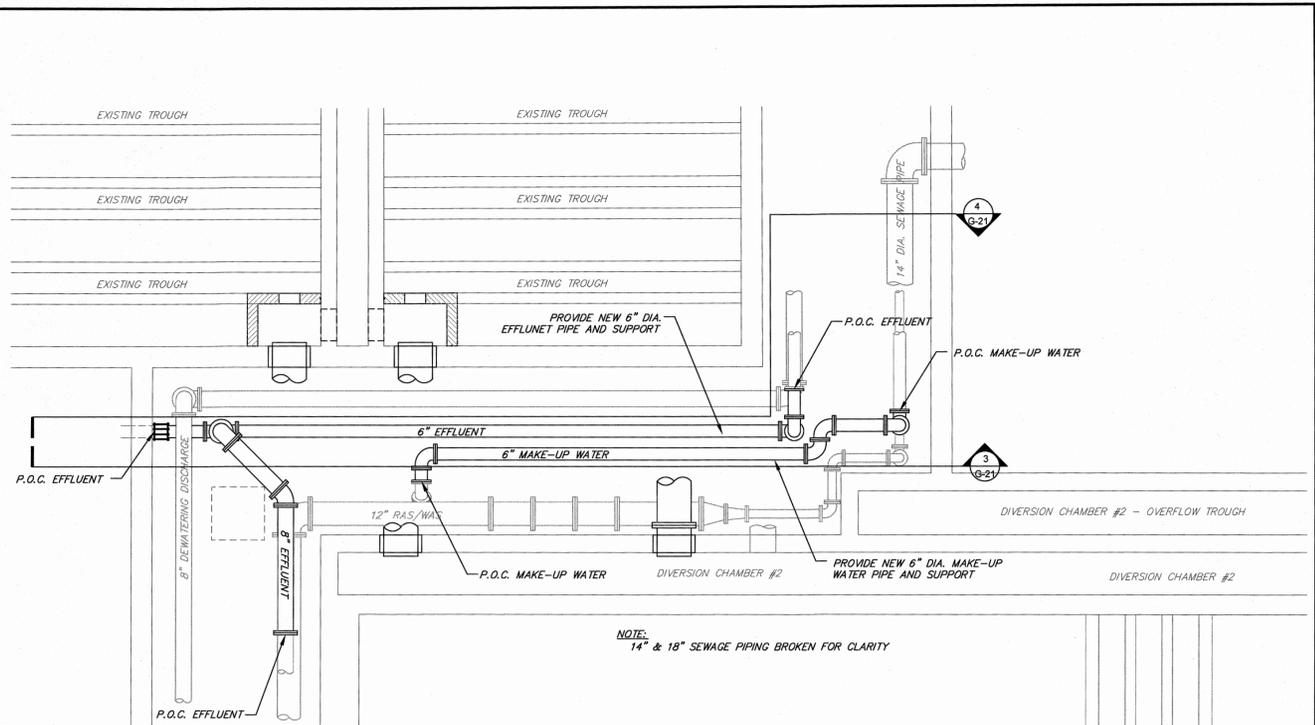
44 GREEN STREET, HUDSON, NEW YORK 12534
PHONE NO. (518) 828-2300 FAX NO. (518) 828-3963

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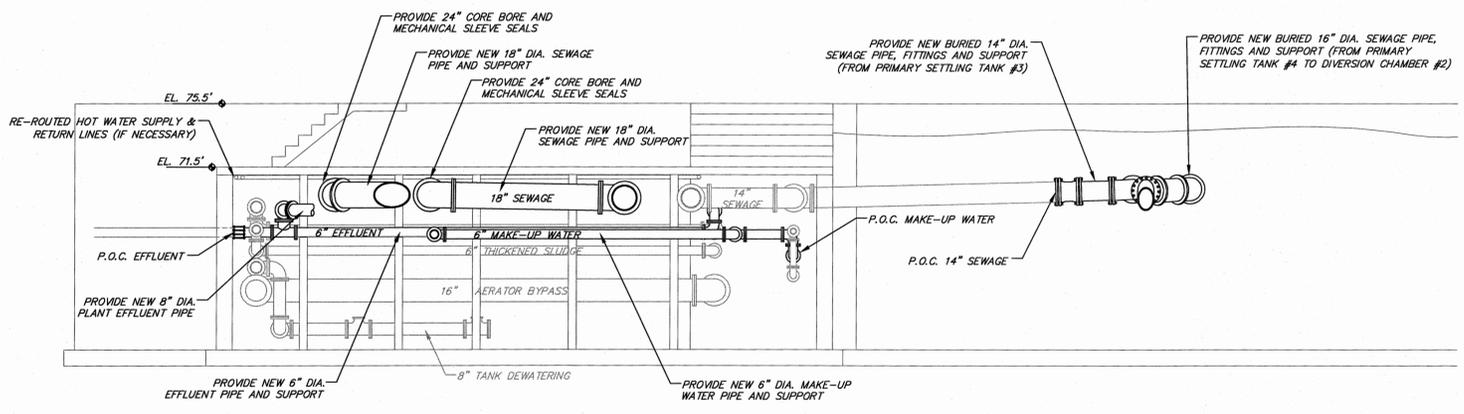
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-20



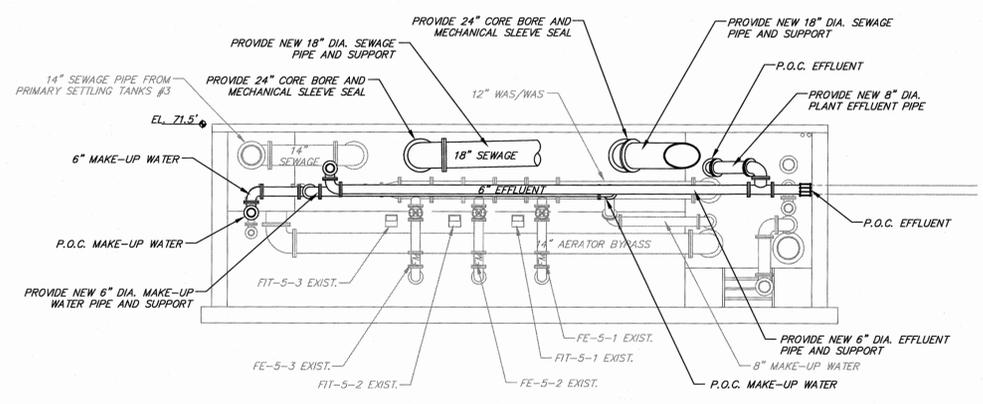
1 PLAN
G-21 SCALE: 3/16"=1'-0"



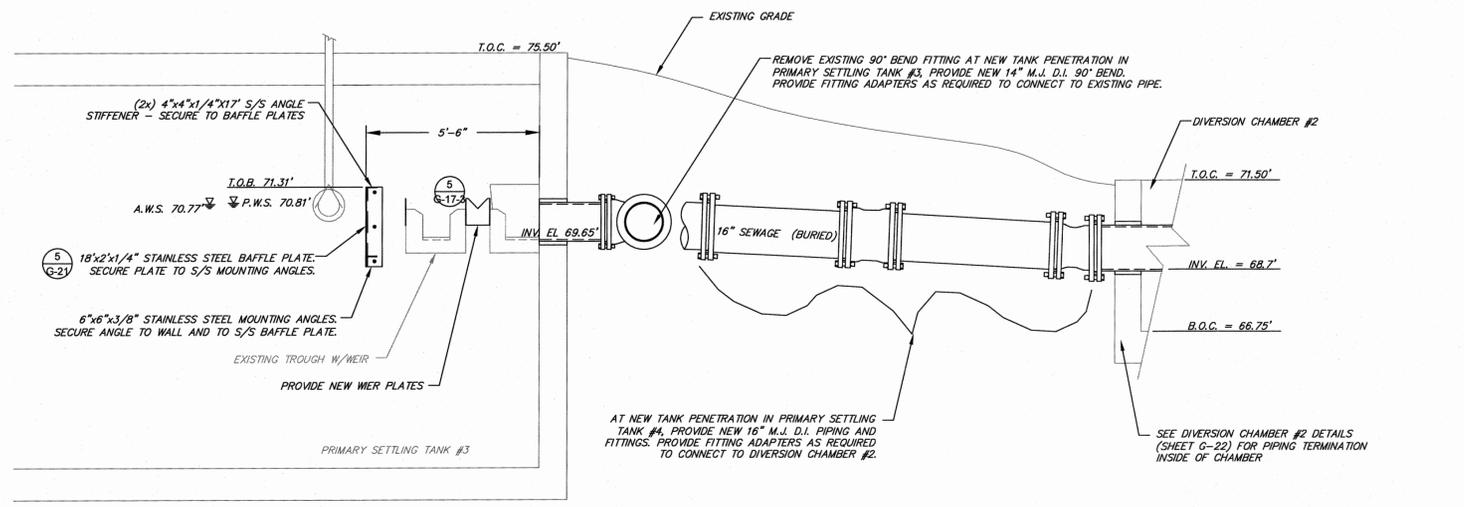
2 PLAN
G-21 SCALE: 1/4"=1'-0"



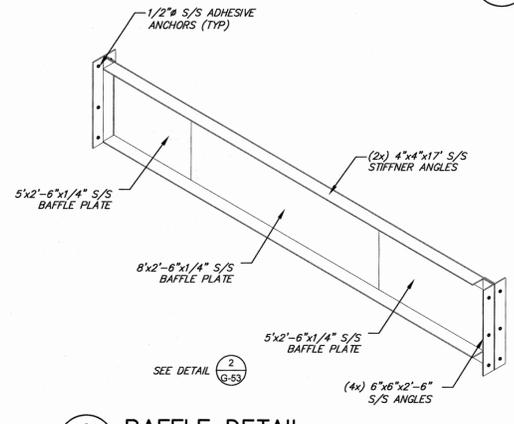
3 SECTION
G-21 SCALE: 3/16"=1'-0"



4 SECTION
G-21 SCALE: 3/16"=1'-0"



5 SECTION
G-21 SCALE: 3/8"=1'-0"



6 BAFFLE DETAIL
G-21 SCALE: NONE

REV No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	8/20/14	MA

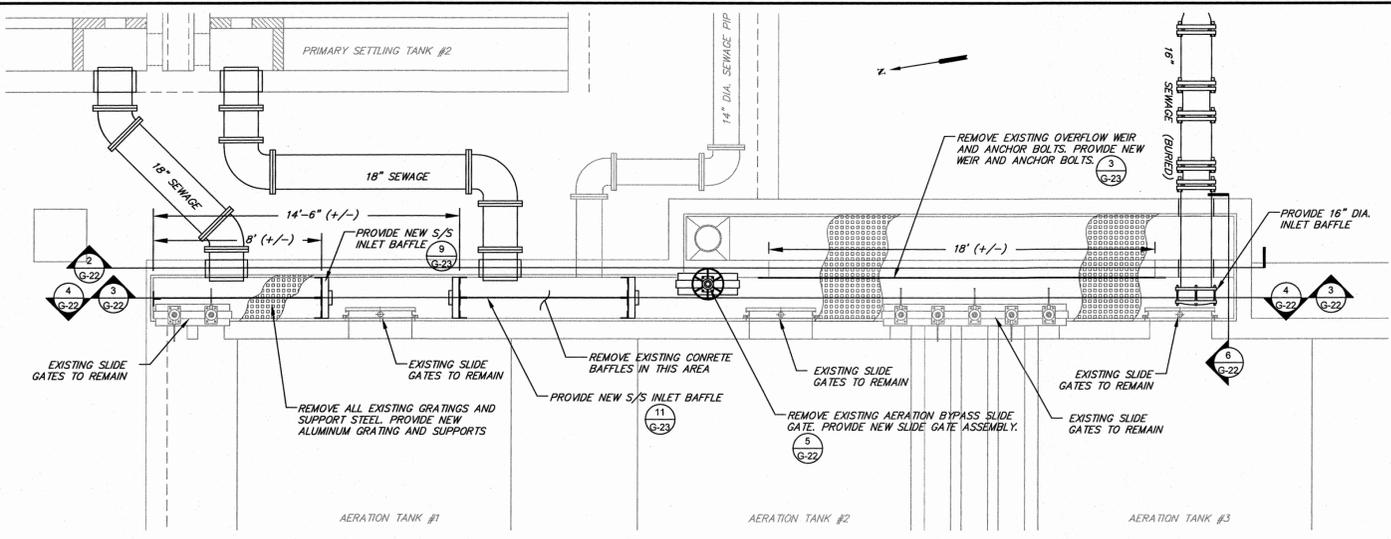
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PRIMARY SETTLING TANKS DISCHARGE PIPING PLANS AND DETAILS

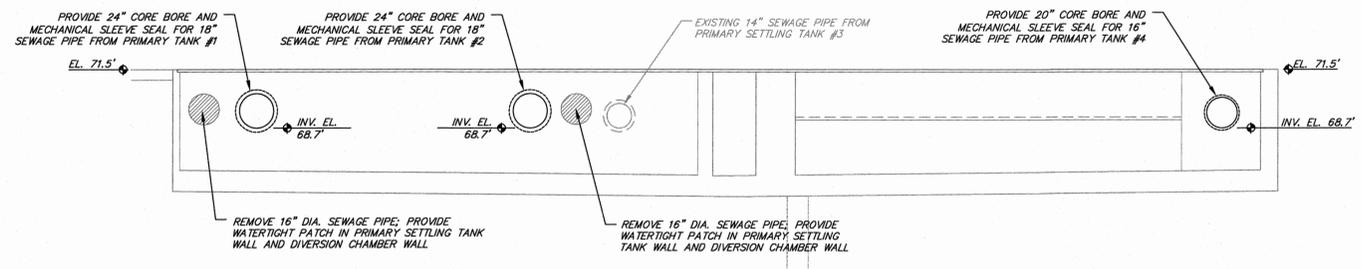
MORRIS ASSOCIATES,
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9 Elk Lane, Poughkeepsie, New York 12601
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-21

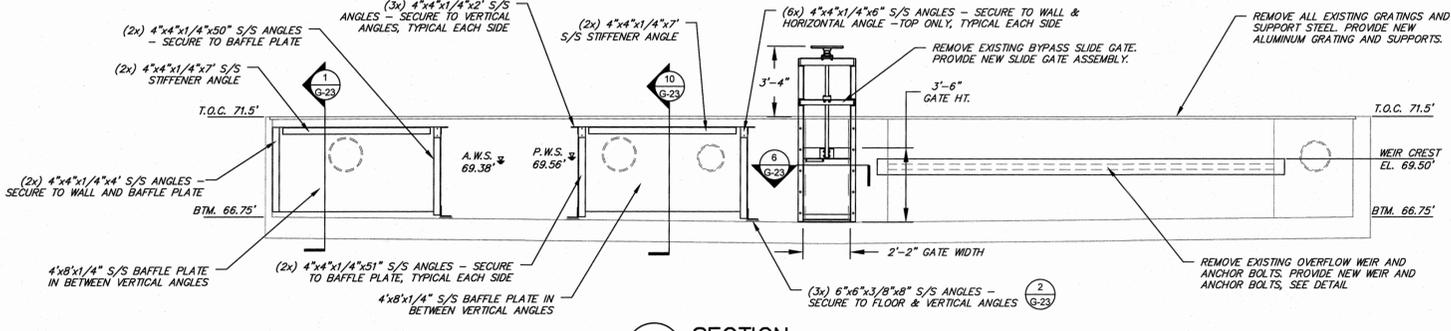
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE PLANS, SPECIFICATIONS OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.



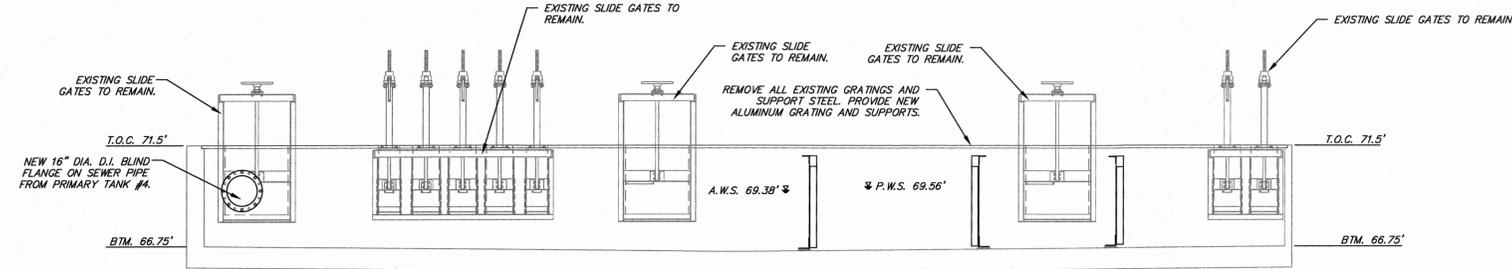
1 PLAN
G-22 SCALE: 1/4"=1'-0"



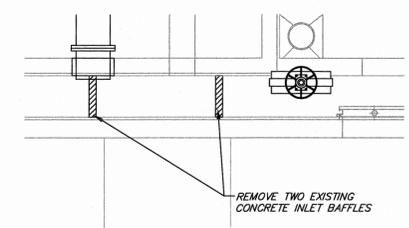
2 SECTION
G-22 SCALE: 1/4"=1'-0"



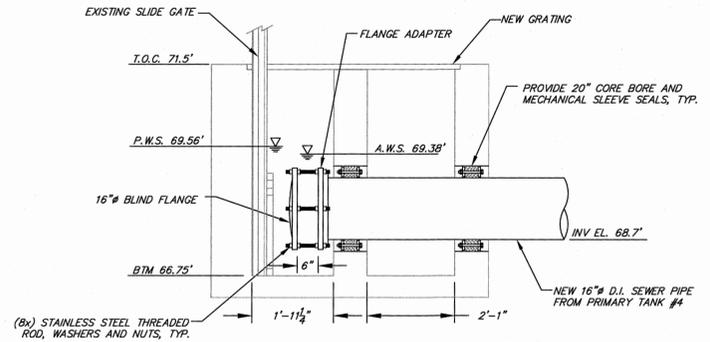
3 SECTION
G-22 SCALE: 1/4"=1'-0"



4 SECTION
G-22 SCALE: 1/4"=1'-0"



5 BAFFLE DEMOLITION DETAIL
G-22 SCALE: 1/4"=1'-0"



6 SECTION
G-22 SCALE: 1/2"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/20/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



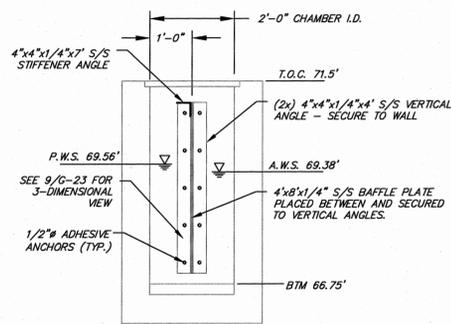
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

DIVERSION CHAMBER NO. 2 PLAN & SECTIONS

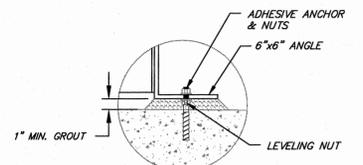
MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elk Lane, Poughkeepsie, New York 12601
44 Green Street, Hudson, New York 12534
Phone No. (845) 454-3411 Phone No. (518) 828-2300
Fax No. (845) 473-1962 Fax No. (518) 828-3963

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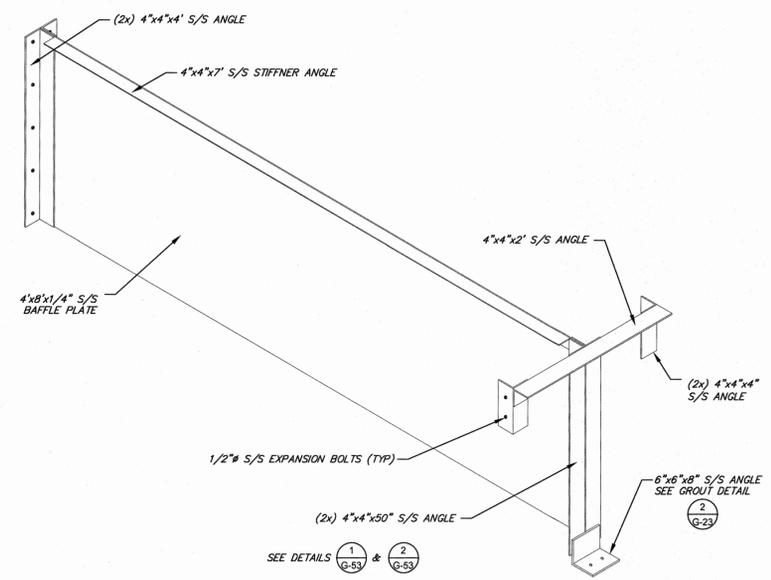
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-22



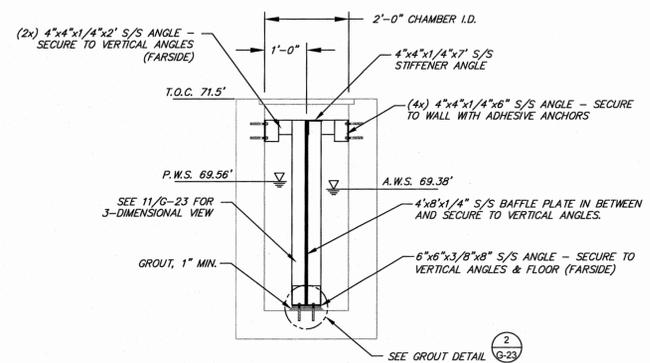
1 SECTION
G-23 SCALE: 1/2"=1'-0"
SEE DETAILS 1 & 2



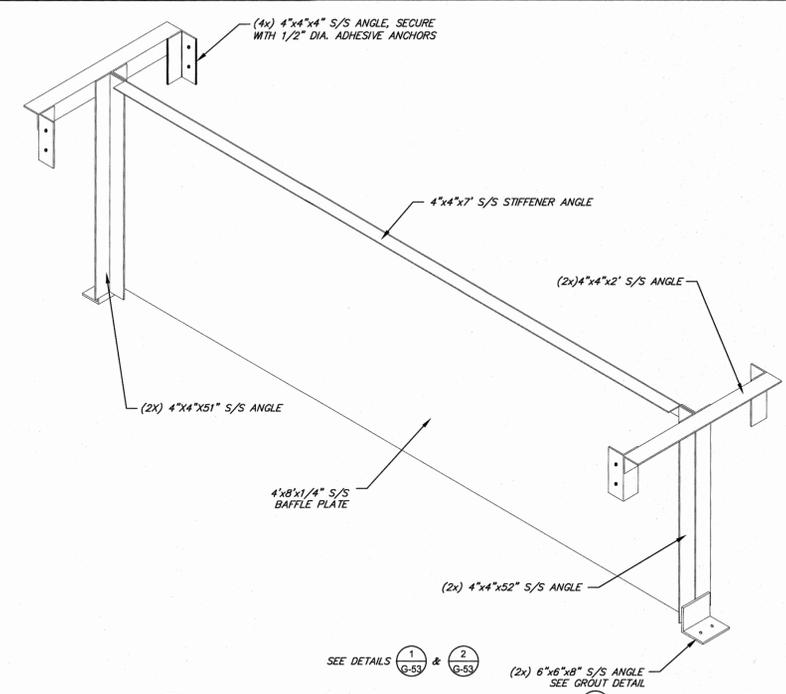
2 GROUT DETAIL
G-23 SCALE: NONE



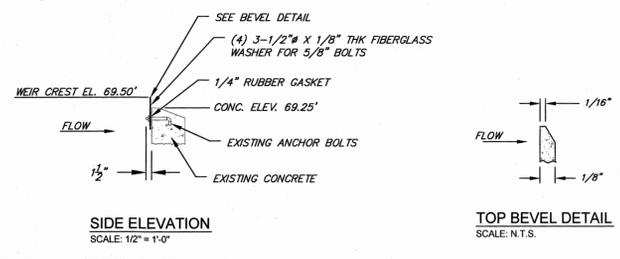
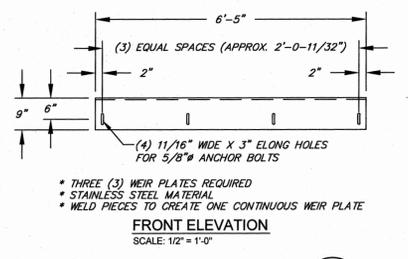
9 DETAIL
G-23 SCALE: NONE



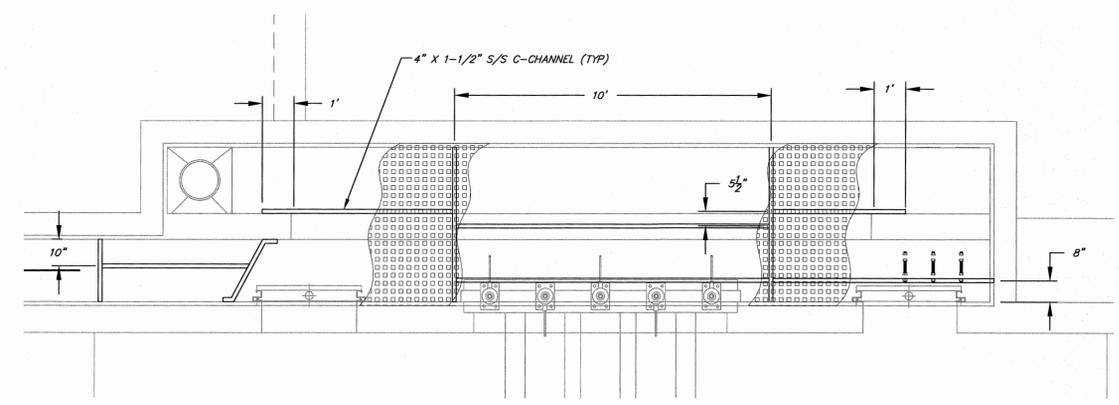
10 SECTION
G-23 SCALE: 1/2"=1'-0"
SEE DETAILS 1 & 2



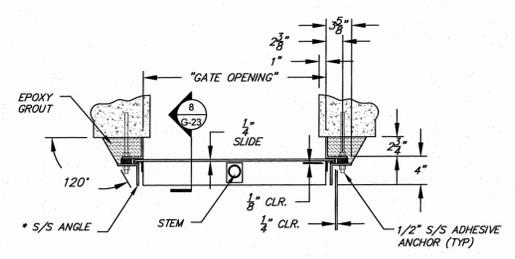
11 DETAIL
G-23 SCALE: NONE



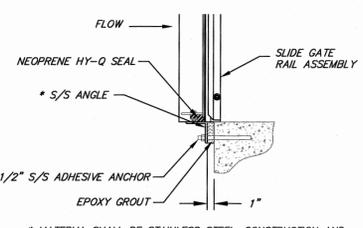
3 OVERFLOW WEIR DETAILS
G-23 SCALE: AS SHOWN



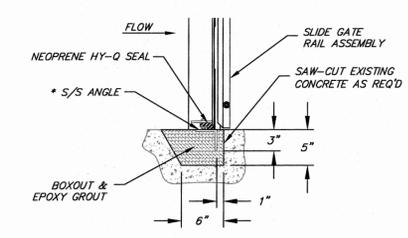
12 GRATING SUPPORT PLAN
G-23 SCALE: 3/8"=1'-0"



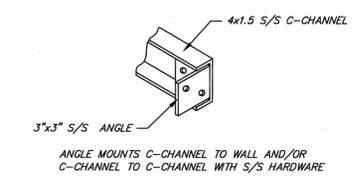
6 SLIDE GATE SECTION
G-23 SCALE: 1"=1'-0"



7 SLIDE GATE MOUNTING DETAIL
G-23 SCALE: 1"=1'-0"



8 SLIDE GATE MOUNTING DETAIL
G-23 SCALE: 1"=1'-0"



13 DETAIL
G-23 SCALE: NONE

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	8/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

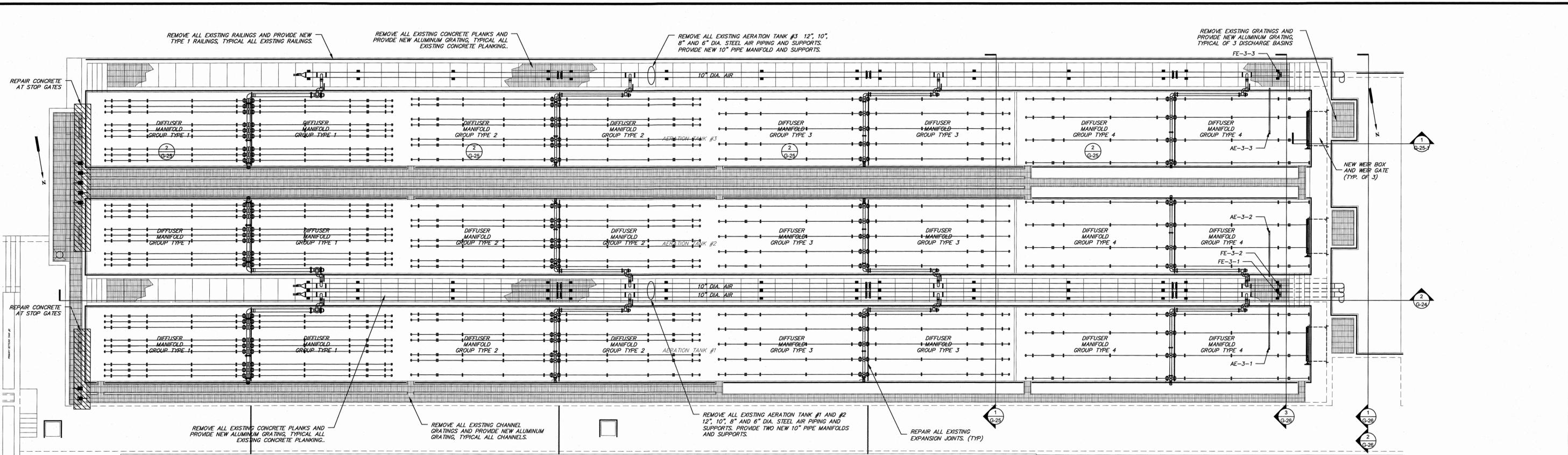


ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

DIVERSION CHAMBER NO. 2 DETAILS

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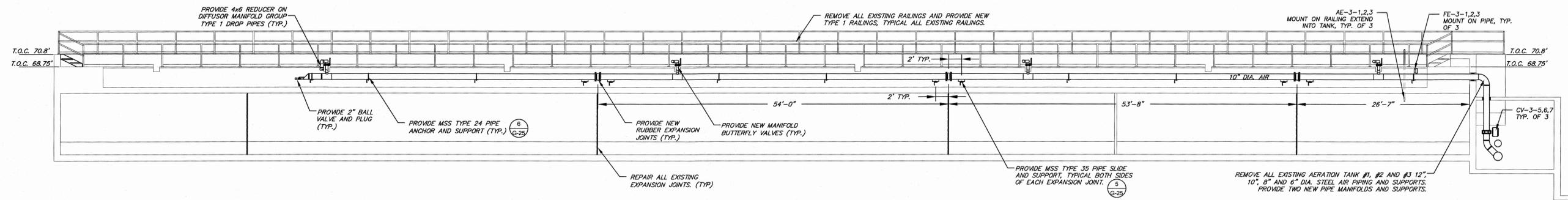
DATE	SCALE	DESIGNED BY	FILE No.
01/15/14	AS SHOWN	MA - RLJ	60401.30
		CHECKED BY	DRAWING No.
		MA - RLJ/JFL	G-23



NOTES.

1. REMOVE ALL EXISTING RAILINGS AND HARDWARE AND PROVIDE NEW TYPE 1 RAILINGS.
2. REMOVE ALL EXISTING GRATINGS AND PROVIDE NEW ALUMINUM GRATING. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM OF THE BASE BID.
3. REMOVE ALL EXISTING CONCRETE PLANKS AND PROVIDE NEW ALUMINUM GRATING.
4. REPAIR EXISTING EXPANSION JOINTS IN ACCORDANCE WITH DETAILS ON CONTRACT DRAWINGS.
5. REPAIR ALL CRACKS AND SPALLING IN ACCORDANCE WITH DIVISION 3 REQUIREMENTS.
6. AERATION TANK #1, #2 AND #3: REMOVE ALL EXISTING DIFFUSER MANIFOLD AIR PIPING AND PIPE MANIFOLD AIR PIPING INCLUDING DROP PIPES.

1 PLAN
 G-24 SCALE: 1/8"=1'-0"



2 SECTION
 G-24 SCALE: 1/8"=1'-0"

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	9/30/14	MA
REV No.	DESCRIPTION	DATE	BY



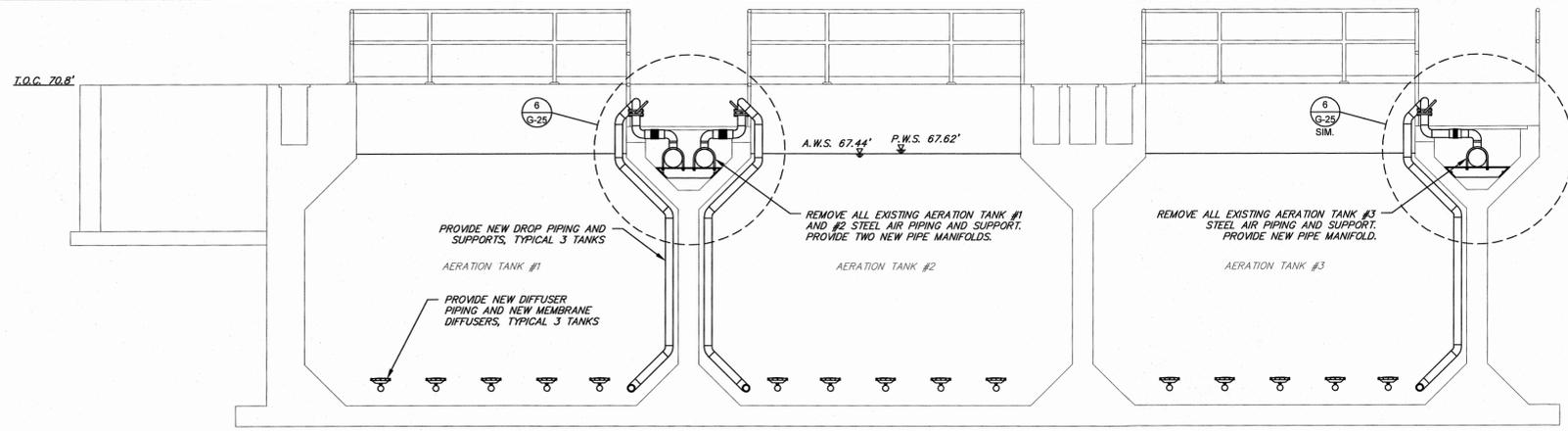
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

AERATION TANK PLAN AND SECTIONS

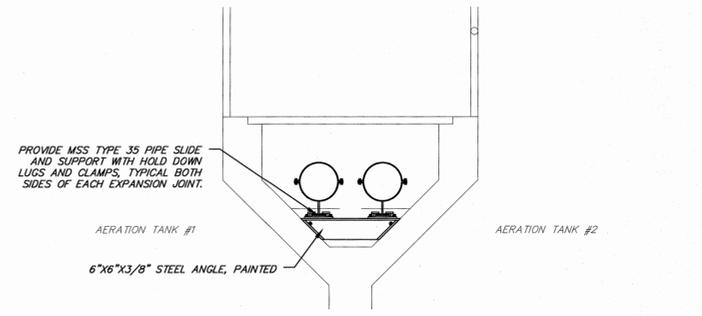
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-24
		DRAWN BY		
		CHECKED BY		
		MA - RJJ/JFL		

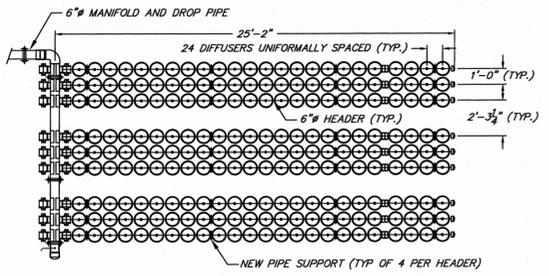
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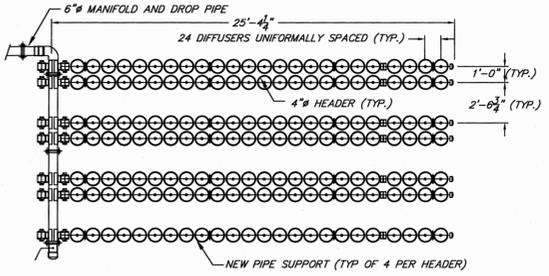
1 SECTION
G-25 SCALE: 1/4"=1'-0"



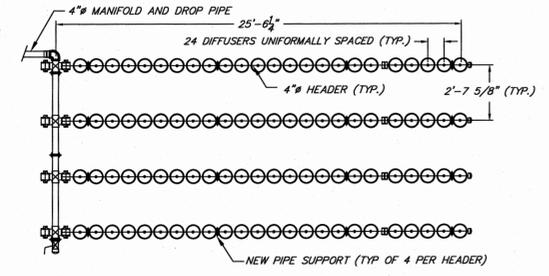
5 AERATION PIPING SECTION AT EXPANSION JOINT
G-25 SCALE: 1/2"=1'-0"



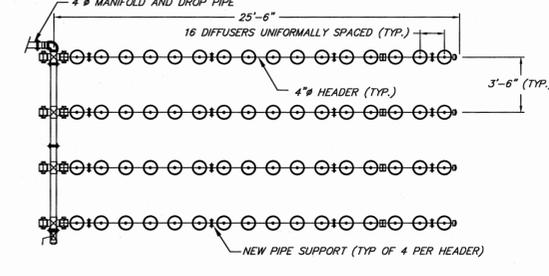
DIFFUSER MANIFOLD GROUP TYPE 1



DIFFUSER MANIFOLD GROUP TYPE 2

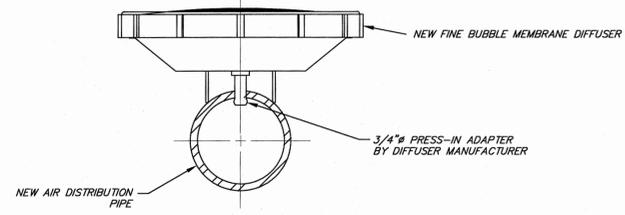


DIFFUSER MANIFOLD GROUP TYPE 3

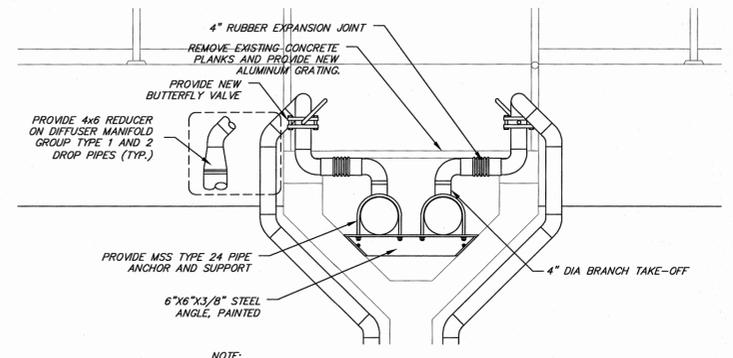


DIFFUSER MANIFOLD GROUP TYPE 4

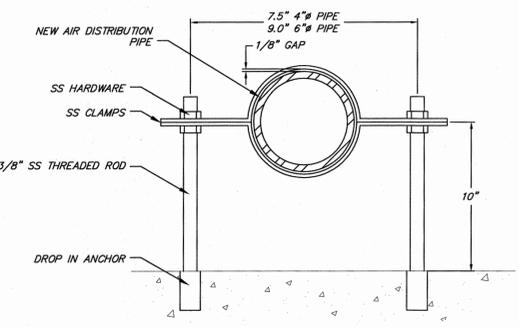
2 DIFFUSER MANIFOLD GROUP DETAILS
G-25 SCALE: 3/16"=1'-0"



3 DIFFUSER DETAIL
G-25 SCALE: NONE



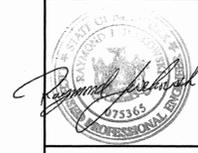
6 TYPICAL AERATION PIPING SECTION
G-25 SCALE: 1/2"=1'-0"



4 DIFFUSER MANIFOLD SUPPORT DETAIL
G-25 SCALE: NONE

NOTE:
1. AERATION TANK #3 PIPING SIMILAR TO AERATION TANK #1 PIPING. CENTER AERATION TANK #3 PIPE IN TROUGH.

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



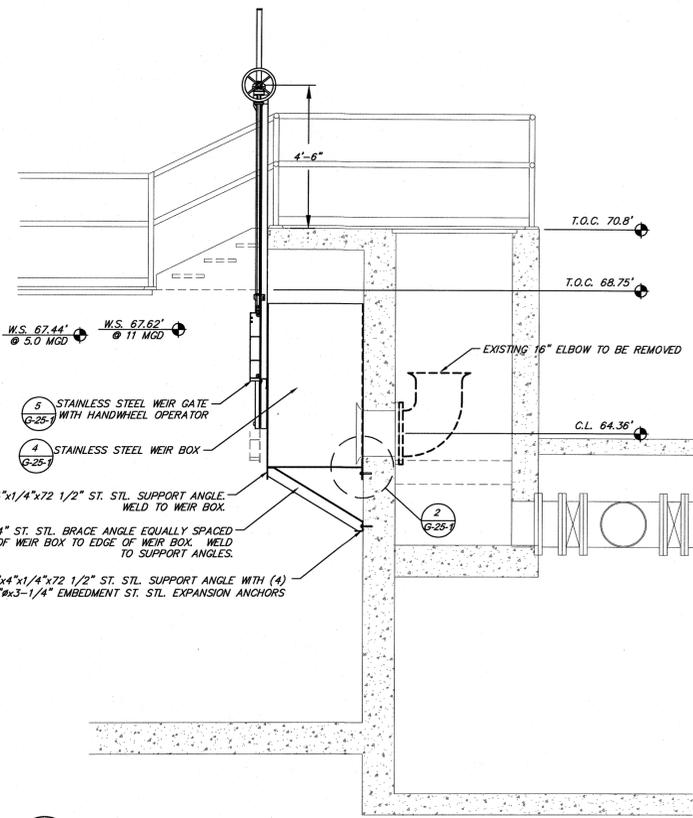
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

AERATION TANK DETAILS - 1

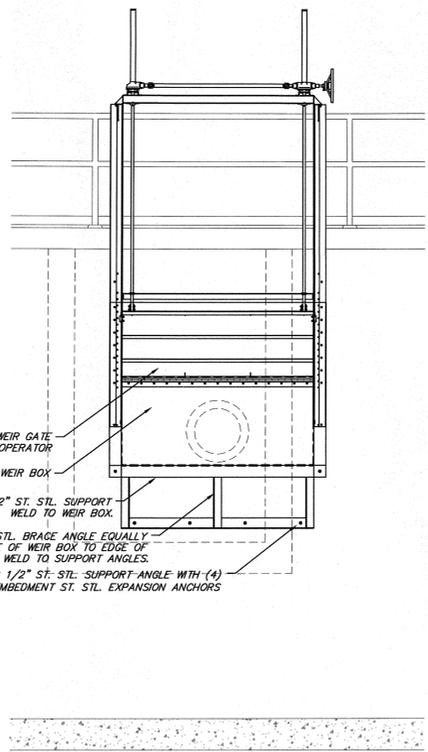
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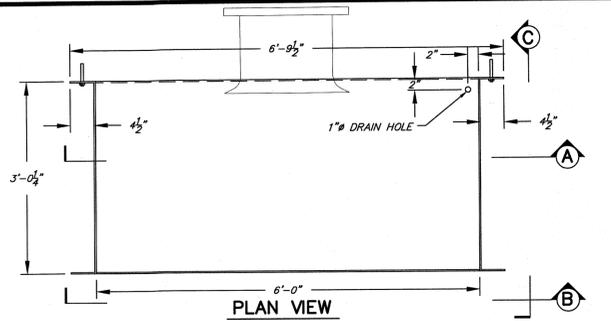
DATE	SCALE	DESIGNED BY	FILE No.
01/15/14	AS SHOWN	MA - RJJ	60401.30



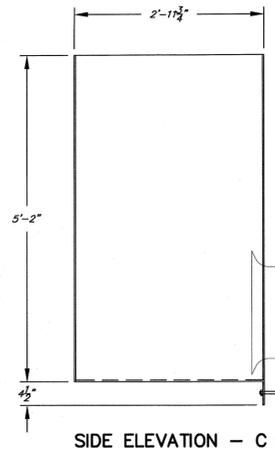
1 SECTION
G-25-1 SCALE: 1/2"=1'-0"



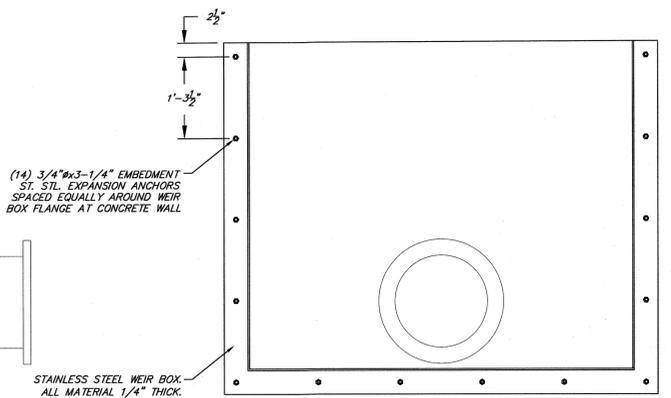
3 SECTION
G-25-1 SCALE: 1/2"=1'-0"



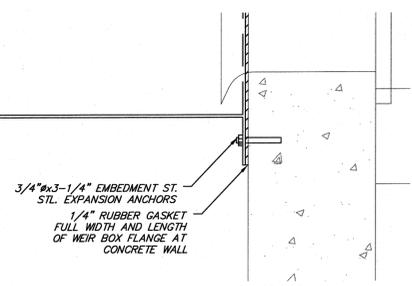
PLAN VIEW



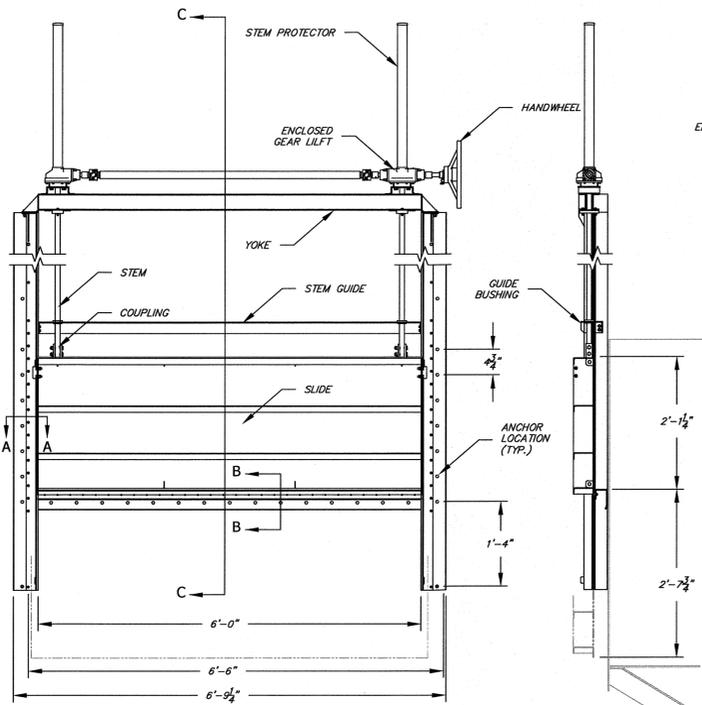
SIDE ELEVATION - C



FRONT SECTION - A

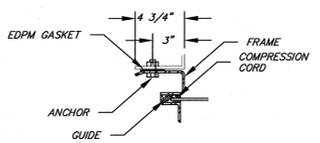


2 SECTION
G-25-1 SCALE: 2"=1'-0"

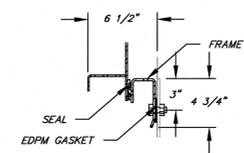


ELEVATION

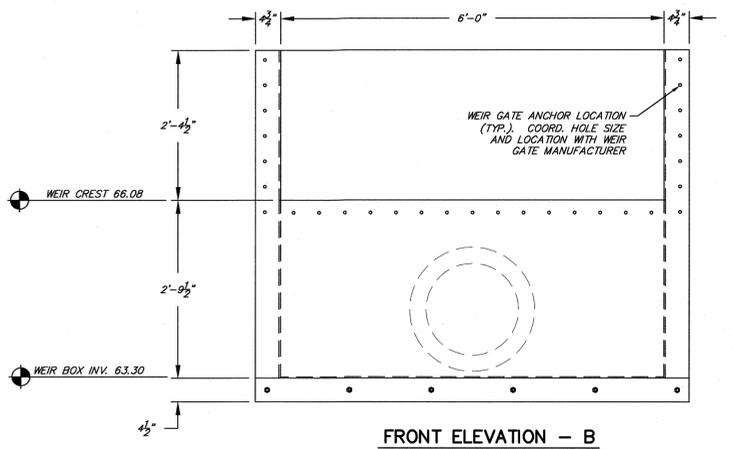
SECTION C-C



SECTION A-A



SECTION B-B

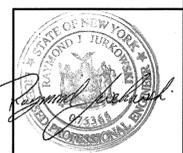


FRONT ELEVATION - B

4 WEIR BOX DETAIL
G-25-1 SCALE: 1"=1'-0"

5 WEIR GATE DETAIL
G-25-1 SCALE: 1/2"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



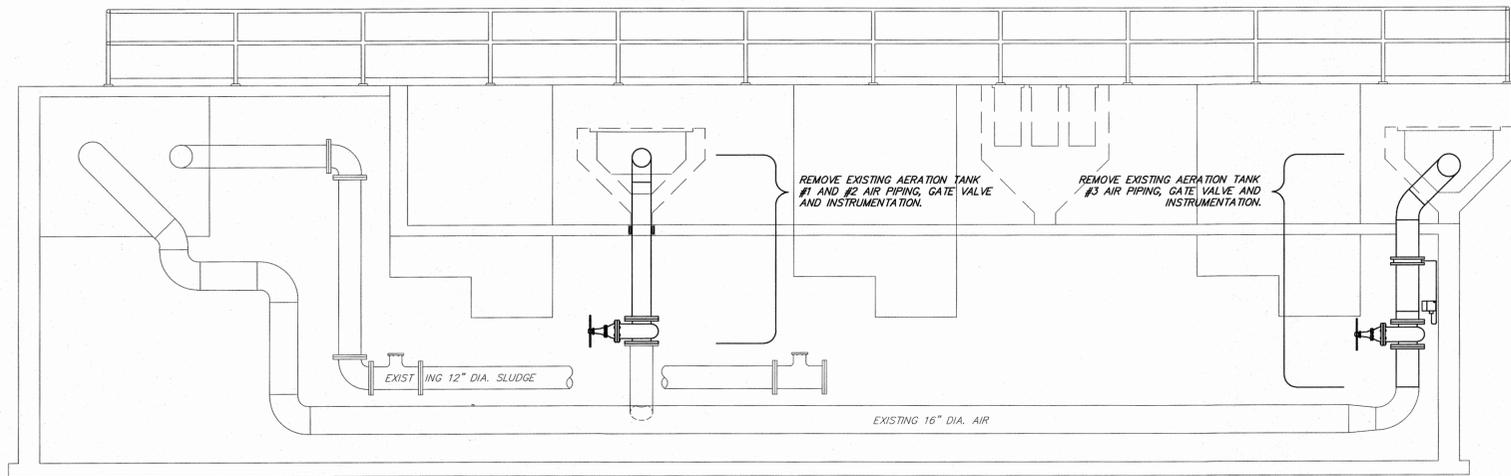
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

AERATION TANK DETAILS - 2

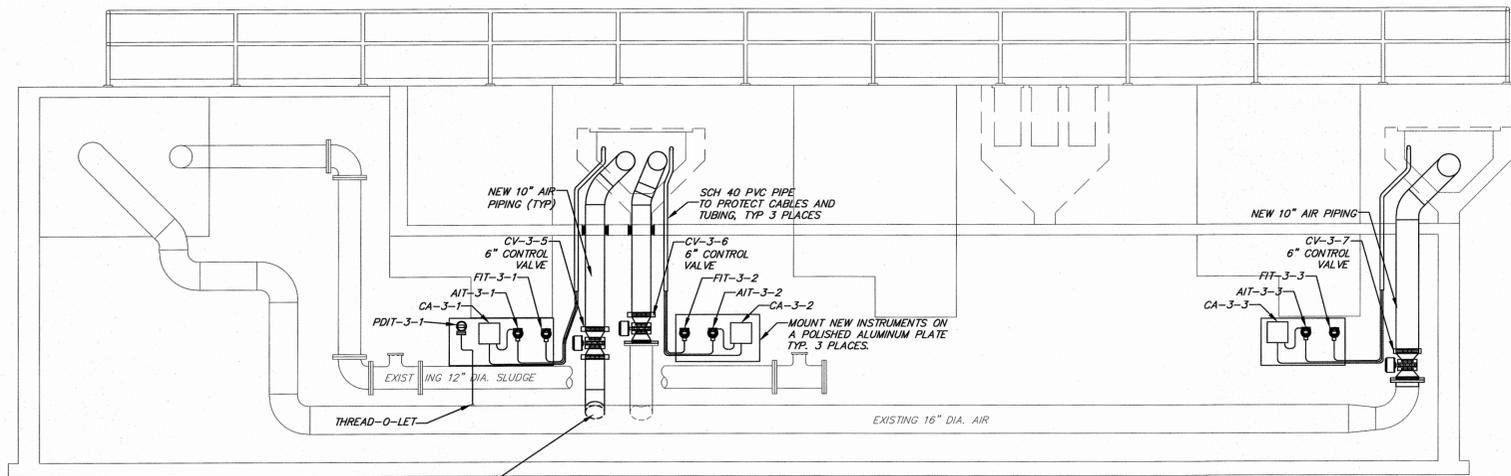
MORRIS ASSOCIATES,
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9 Elks Lane, Poughkeepsie, New York 12601
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Fax No. (845) 473-1929

DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-25-1

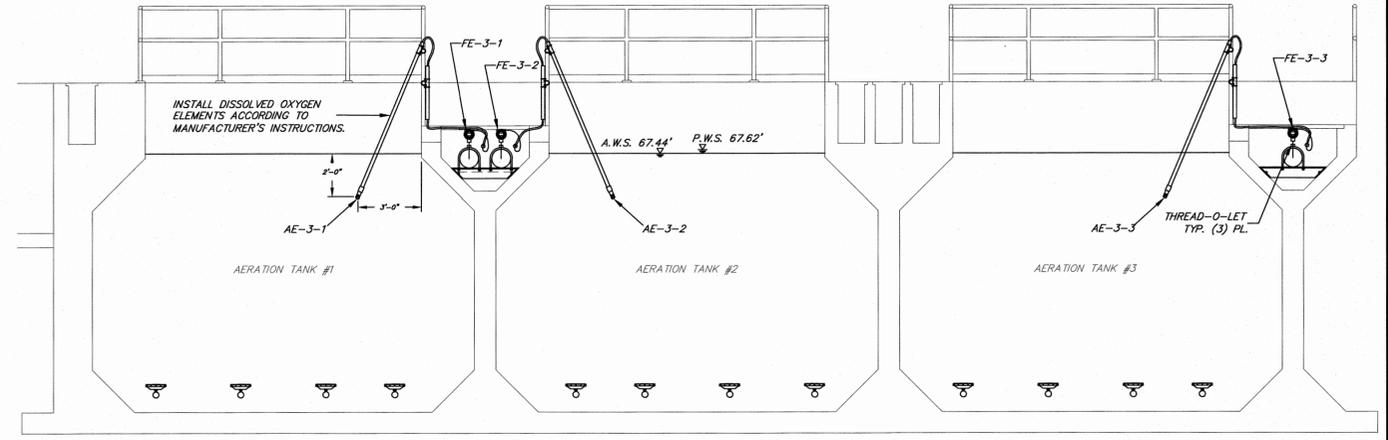
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1 DEMOLITION SECTION
G-26 SCALE: 1/4"=1'-0"

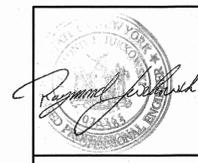


2 SECTION
G-26 SCALE: 1/4"=1'-0"



3 SECTION
G-26 SCALE: 1/4"=1'-0"

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



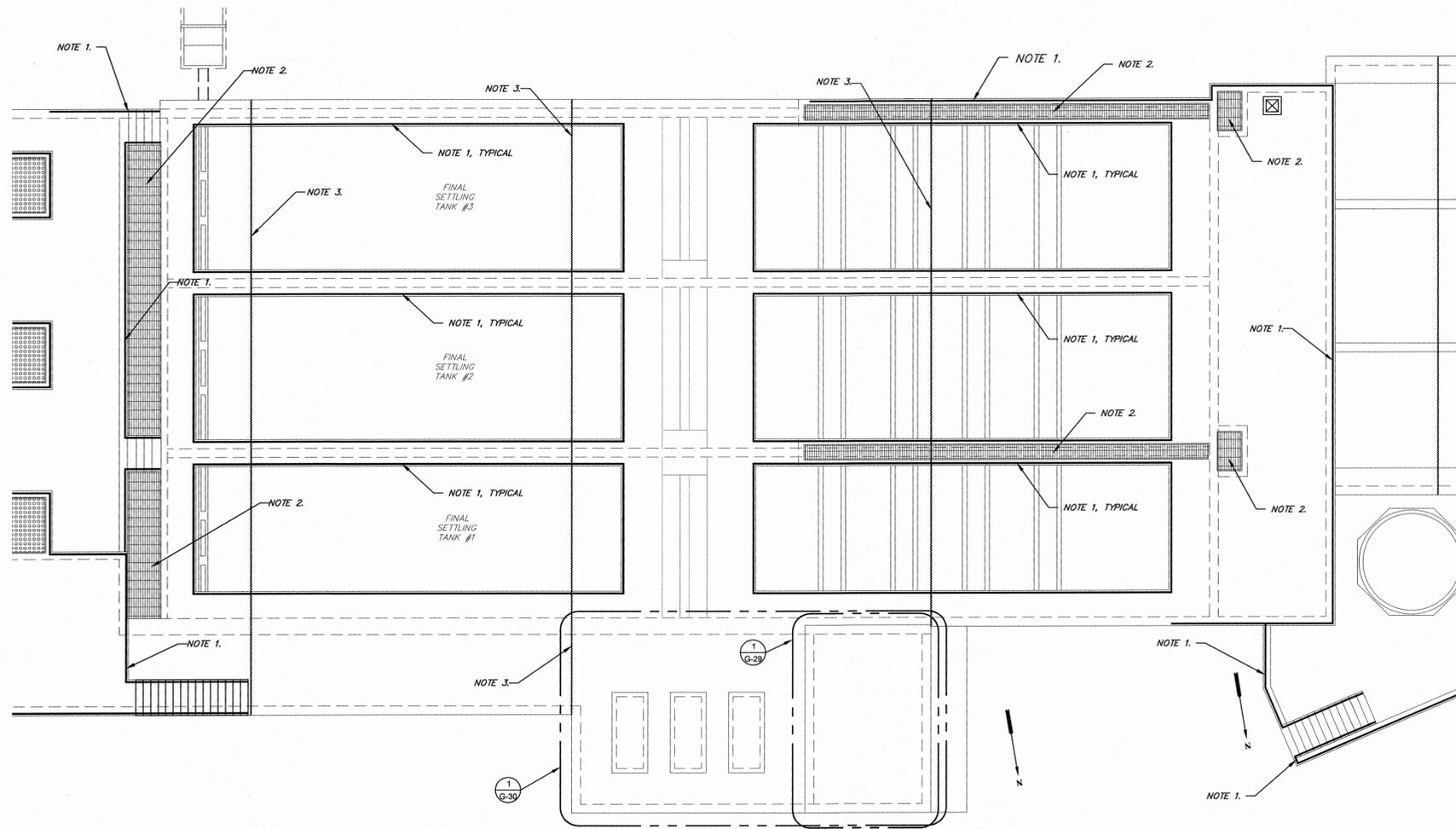
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

AERATION TANK SECTIONS

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DATE	SCALE	DESIGNED BY	FILE No.
09/16/14	AS SHOWN	MA - RJJ	60401.30
		DRAWN BY	DRAWING No.
		TLW	G-26
		CHECKED BY	
		MA - RJJ/JFL	



1 PLAN
 G-27 SCALE: 3/32"=1'-0"

NOTES:

1. REMOVE ALL EXISTING RAILINGS AND HARDWARE AND PROVIDE NEW TYPE 1 RAILINGS.
2. REMOVE ALL EXISTING GRATINGS AND PROVIDE NEW TYPE 1 GRATINGS.
3. REPAIR EXISTING EXPANSION JOINTS IN ACCORDANCE WITH DETAILS ON CONTRACT DRAWINGS.
4. (DELETED).
5. REPAIR ALL CRACKS AND SPALLING IN EXISTING CONCRETE IN ACCORDANCE WITH DIVISION 3 REQUIREMENTS.

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	8/30/14	MA



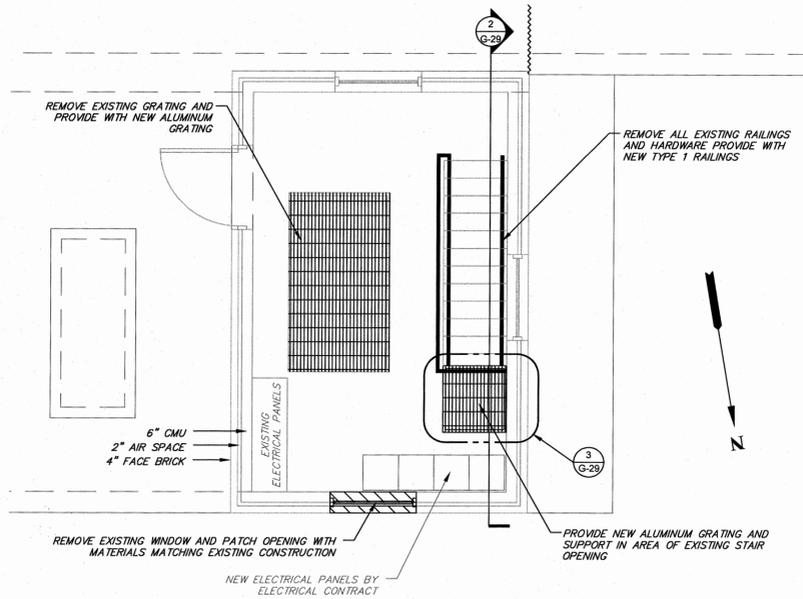
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

FINAL SETTLING TANKS PLAN

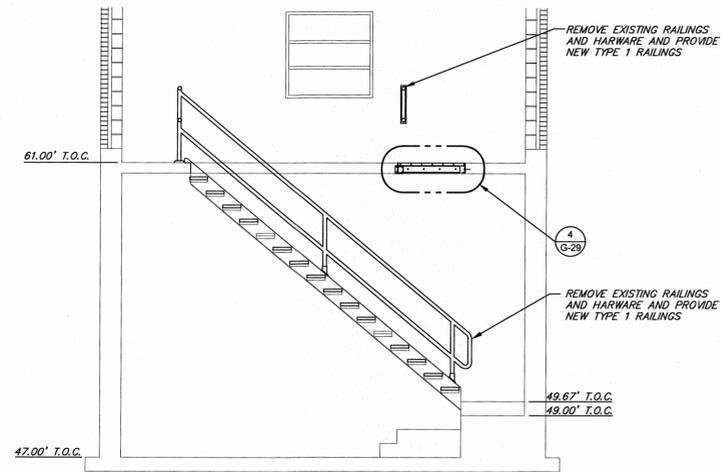
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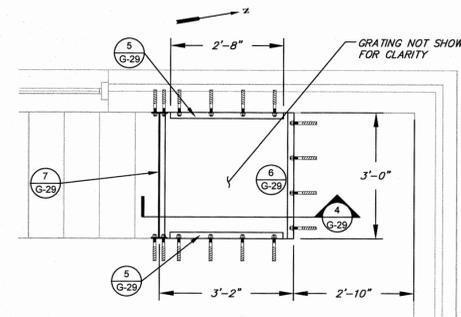
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJ	60401.30	G-27
		DRAWN BY		
		CHECKED BY		
		MA - RJ/JPL		



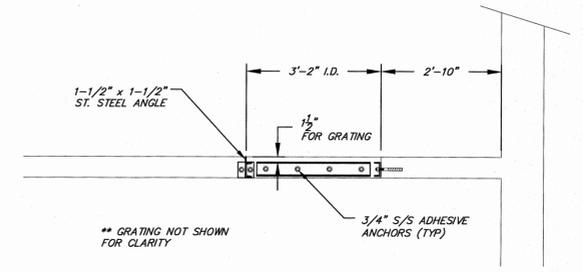
1 SLUDGE PUMPING STATION PLAN
G-29 SCALE: 1/4"=1'-0"



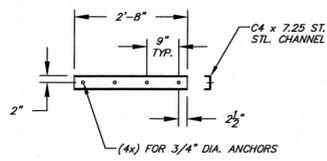
2 SLUDGE PUMPING STATION SECTION
G-29 SCALE: 1/4"=1'-0"



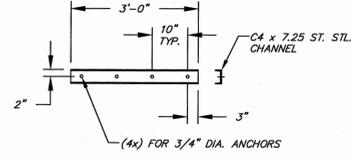
3 PLAN
G-29 SCALE: 1/2"=1'-0"



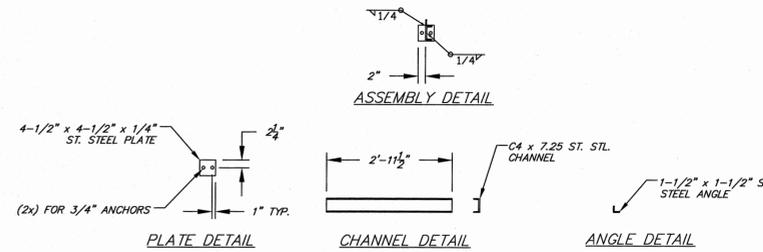
4 SECTION
G-29 SCALE: 1/2"=1'-0"



5 CHANNEL DETAIL
G-29 SCALE: 1/2"=1'-0"



6 CHANNEL DETAIL
G-29 SCALE: 1/2"=1'-0"



7 CHANNEL ASSEMBLY / DETAIL
G-29 SCALE: 1/2"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	8/30/14	MA

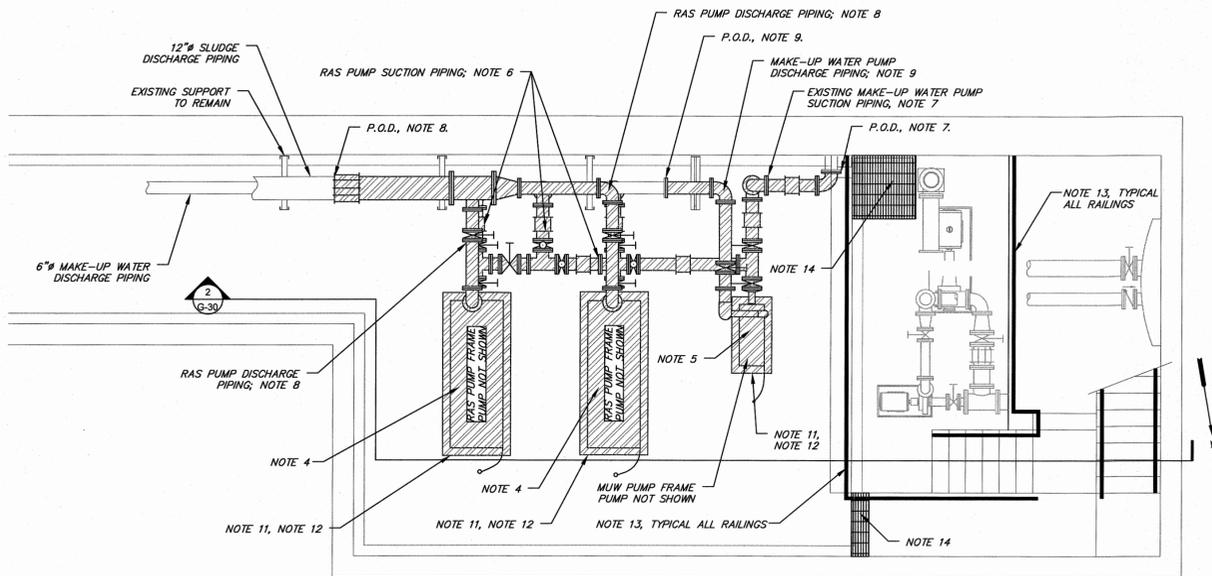


ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY
FINAL SETTLING TANKS DETAILS

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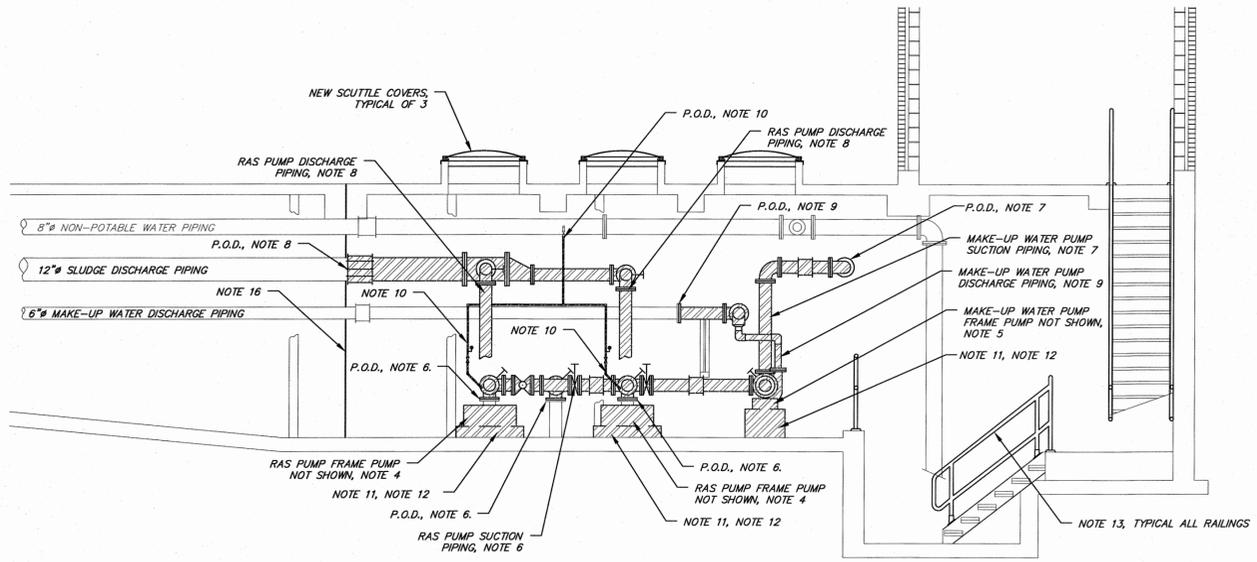
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-29
		CHECKED BY		
		MA - RJJ / JFL		



IDENTIFIES EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED

1 PLAN
G-30 SCALE: 1/4"=1'-0"

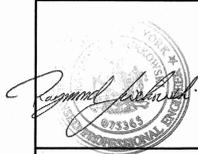
- NOTES**
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 - CONTRACTOR SHALL COORDINATE THE REMOVAL AND DISPOSAL OF ALL EQUIPMENT, VALVES, PIPING, PIPING ACCESSORIES, AND SUPPORT ASSOCIATED WITH THE CONTRACT DRAWINGS WITH WORK BY OTHER CONTRACTS AND OWNER.
 - (DELETED.)
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF TWO (2) EXISTING RETURN ACTIVATED SLUDGE PUMP SETS.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ONE (1) EXISTING MAKE-UP WATER PUMP SET.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING 6" RETURN ACTIVATED SLUDGE PUMP SUCTION PIPING FROM THREE (3) POINTS OF DISCONNECT (P.O.D.) TO INTAKE SIDE OF TWO (2) EXISTING RETURN ACTIVATED SLUDGE PUMPS.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING 6" MAKE-UP WATER PUMP INTAKE PIPING FROM P.O.D. TO INTAKE SIDE ON EXISTING MAKE-UP WATER PUMP.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING RETURN ACTIVATED SLUDGE PUMP DISCHARGE PIPING FROM P.O.D. ON EXISTING 12" DISCHARGE PIPING TO DISCHARGE SIDE OF TWO (2) EXISTING RETURN ACTIVATED SLUDGE PUMPS. CONTRACTOR SHALL REMOVE AND DISPOSE INDICATED 6" & 12" PIPING AND PIPING ACCESSORIES.
 - CONTRACTOR SHALL REMOVE AND DISPOSE ALL 6" EXISTING DISCHARGE PIPING FROM P.O.D. TO DISCHARGE SIDE OF EXISTING MAKE-UP WATER PUMP. CONTRACTOR SHALL REMOVE AND DISPOSE INDICATED 3" & 6" PIPING AND PIPING ACCESSORIES.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING 1/2" CU NON-POTABLE WATER PIPING AND PIPE INSULATION FROM EXISTING OVERHEAD VALVE (P.O.D.) TO 1/4" CONNECTION ON THE TWO (2) EXISTING RAS PUMPS.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING CONCRETE PADS AND ASSOCIATED MATERIALS FOR THE EXISTING TWO (2) RETURN ACTIVATED SLUDGE PUMPS AND ONE (1) MAKE-UP WATER PUMP.
 - CONTRACTOR SHALL REPAIR AND RESTORE FINISH FLOOR AFTER INSTALLATION OF NEW CONCRETE BASES. SEE CONTRACT DRAWING SLUDGE PUMPING STATION LOWER LEVEL PUMP BASE INSTALLATION PLAN.
 - REMOVE ALL EXISTING RAILINGS AND HARDWARE AND PROVIDE NEW TYPE 1 RAILINGS.
 - REMOVE ALL EXISTING GRATINGS AND PROVIDE NEW ALUMINUM GRATING.
 - ALL WORK SHALL BE STAGED AND SCHEDULED IN ACCORDANCE WITH DIVERSION 1 REQUIREMENTS.
 - REPAIR EXISTING EXPANSION JOINTS IN ACCORDANCE WITH DETAILS ON CONTRACT DRAWINGS.



IDENTIFIES EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED

2 SECTION
G-30 SCALE: 1/4"=1'-0"

REV. No	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

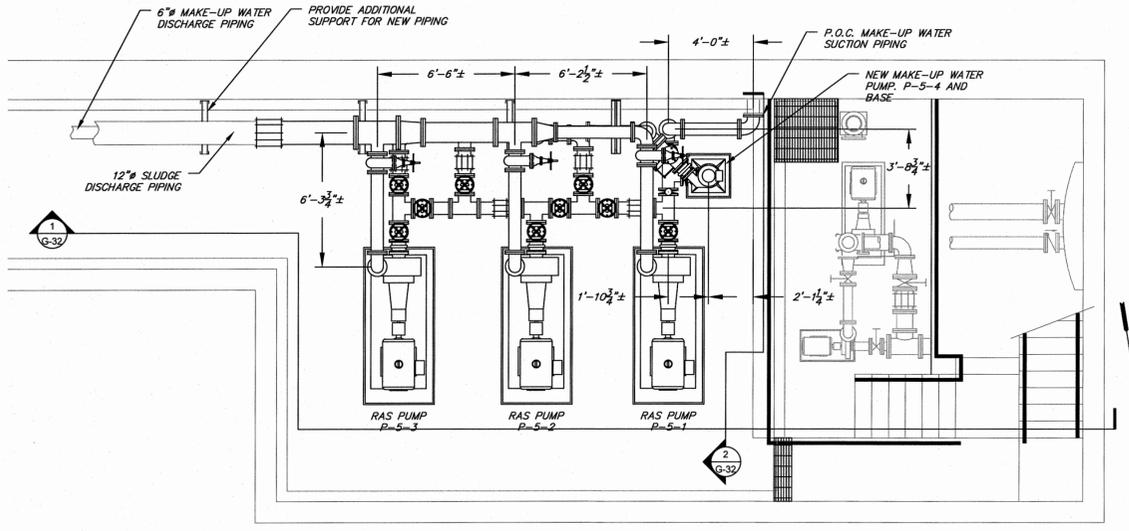


ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY
SLUDGE PUMPING STATION LOWER LEVEL DEMOLITION PLAN AND SECTION

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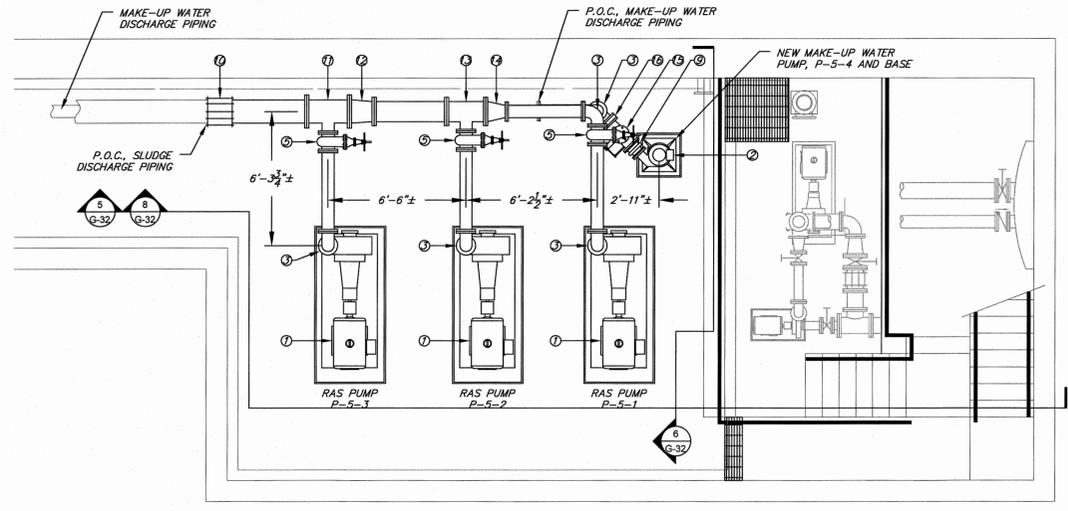
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-30



- NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 2. ALL FINAL DIMENSIONS ARE DEPENDANT UPON FINAL EQUIPMENT SELECTIONS.
 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AFTER FINAL EQUIPMENT SELECTIONS. FINAL EQUIPMENT SELECTIONS MAY EFFECT FINAL LOCATION OF EQUIPMENT AND PIPING CONFIGURATIONS.

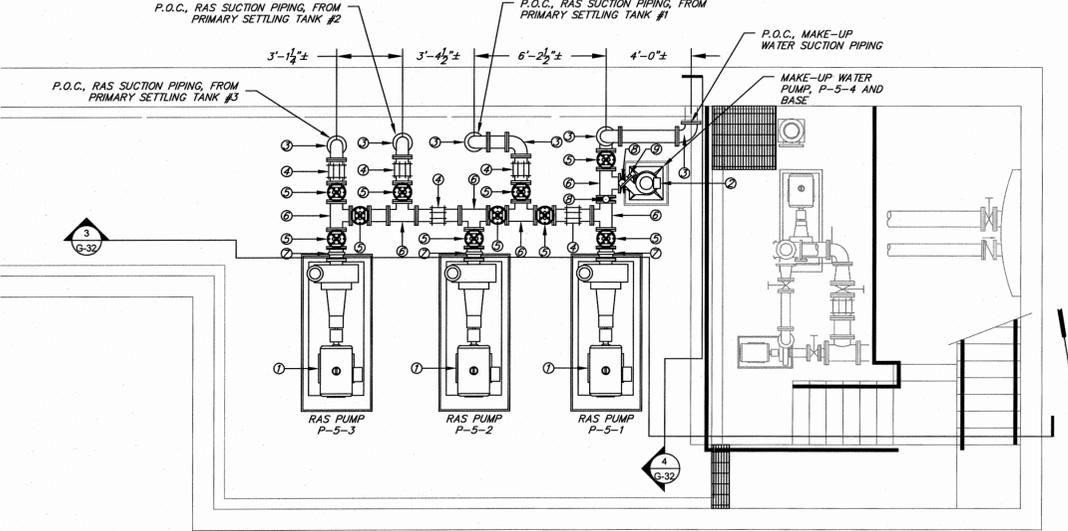
1 PLAN
 G-31 SCALE: 1/4"=1'-0"



- GENERAL NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 2. ALL FINAL DIMENSIONS ARE DEPENDANT UPON FINAL EQUIPMENT SELECTIONS.
 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AFTER FINAL EQUIPMENT SELECTIONS. FINAL EQUIPMENT SELECTIONS MAY EFFECT FINAL LOCATION OF EQUIPMENT AND PIPING CONFIGURATIONS.

3 DISCHARGE PIPING PLAN
 G-31 SCALE: 1/4"=1'-0"

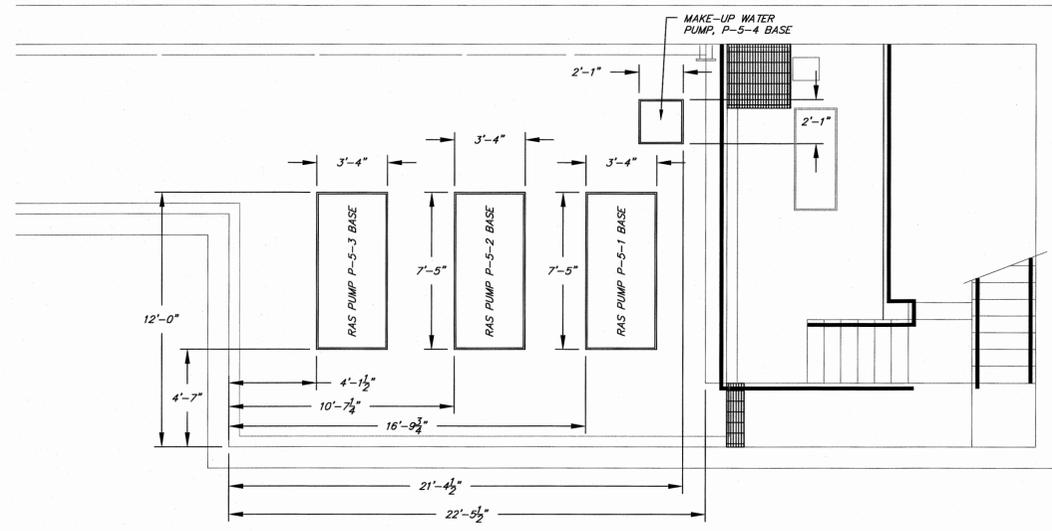
- LEGEND**
- | ① | DESCRIPTION |
|---|---|
| ① | RETURN ACTIVATED SLUDGE PUMP & MOTOR SET |
| ② | MAKE-UP WATER PUMP & MOTOR SET |
| ③ | 6" DUCTILE IRON 90° ELBOW |
| ④ | 6" STEEL COUPLING |
| ⑤ | 6" GATE VALVE |
| ⑥ | 6"x6"x6" DUCTILE IRON TEE |
| ⑦ | 6"x6"x6" EXPANSION JOINT |
| ⑧ | 6" KNIFE GATE VALVE |
| ⑨ | 6"x4"x6" REDUCER EXPANSION JOINT |
| ⑩ | 12" STEEL COUPLING |
| ⑪ | 12"x12"x6" DUCTILE IRON REDUCER TEE |
| ⑫ | 12"x10"x6" DUCTILE IRON ECCENTRIC REDUCER |
| ⑬ | 10"x10"x6" DUCTILE IRON REDUCER TEE |
| ⑭ | 10"x6"x6" DUCTILE IRON ECCENTRIC REDUCER |
| ⑮ | 6" SWING CHECK VALVE WITH LEVER & WEIGHT |
| ⑯ | 6" DUCTILE IRON FLANGE FILLER |



- NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 2. ALL FINAL DIMENSIONS ARE DEPENDANT UPON FINAL EQUIPMENT SELECTIONS.
 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AFTER FINAL EQUIPMENT SELECTIONS. FINAL EQUIPMENT SELECTIONS MAY EFFECT FINAL LOCATION OF EQUIPMENT AND PIPING CONFIGURATIONS.

2 SUCTION PIPING PLAN
 G-31 SCALE: 1/4"=1'-0"

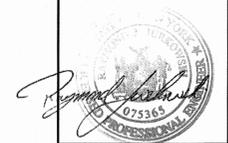
- LEGEND**
- | ① | DESCRIPTION |
|---|---|
| ① | RETURN ACTIVATED SLUDGE PUMP & MOTOR SET |
| ② | MAKE-UP WATER PUMP & MOTOR SET |
| ③ | 6" DUCTILE IRON 90° ELBOW |
| ④ | 6" STEEL COUPLING |
| ⑤ | 6" GATE VALVE |
| ⑥ | 6"x6"x6" DUCTILE IRON TEE |
| ⑦ | 6"x6"x6" EXPANSION JOINT |
| ⑧ | 6" KNIFE GATE VALVE |
| ⑨ | 6"x4"x6" REDUCER EXPANSION JOINT |
| ⑩ | 12" STEEL COUPLING |
| ⑪ | 12"x12"x6" DUCTILE IRON REDUCER TEE |
| ⑫ | 12"x10"x6" DUCTILE IRON ECCENTRIC REDUCER |
| ⑬ | 10"x10"x6" DUCTILE IRON REDUCER TEE |
| ⑭ | 10"x6"x6" DUCTILE IRON ECCENTRIC REDUCER |
| ⑮ | 6" SWING CHECK VALVE WITH LEVER & WEIGHT |
| ⑯ | 6" DUCTILE IRON FLANGE FILLER |



- NOTES:**
1. DIMENSIONS ARE FOR REFERENCE ONLY, CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AFTER FINAL EQUIPMENT SELECTIONS. FINAL EQUIPMENT SELECTIONS MAY EFFECT FINAL LOCATION OF EQUIPMENT, DIMENSIONS AND PIPING CONFIGURATIONS.
 2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 3. CONTRACTOR SHALL REPAIR AND RESTORE FINISH FLOOR AFTER INSTALLATION OF NEW CONCRETE PUMP BASES.

4 EQUIPMENT BASE PLAN
 G-31 SCALE: 1/4"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

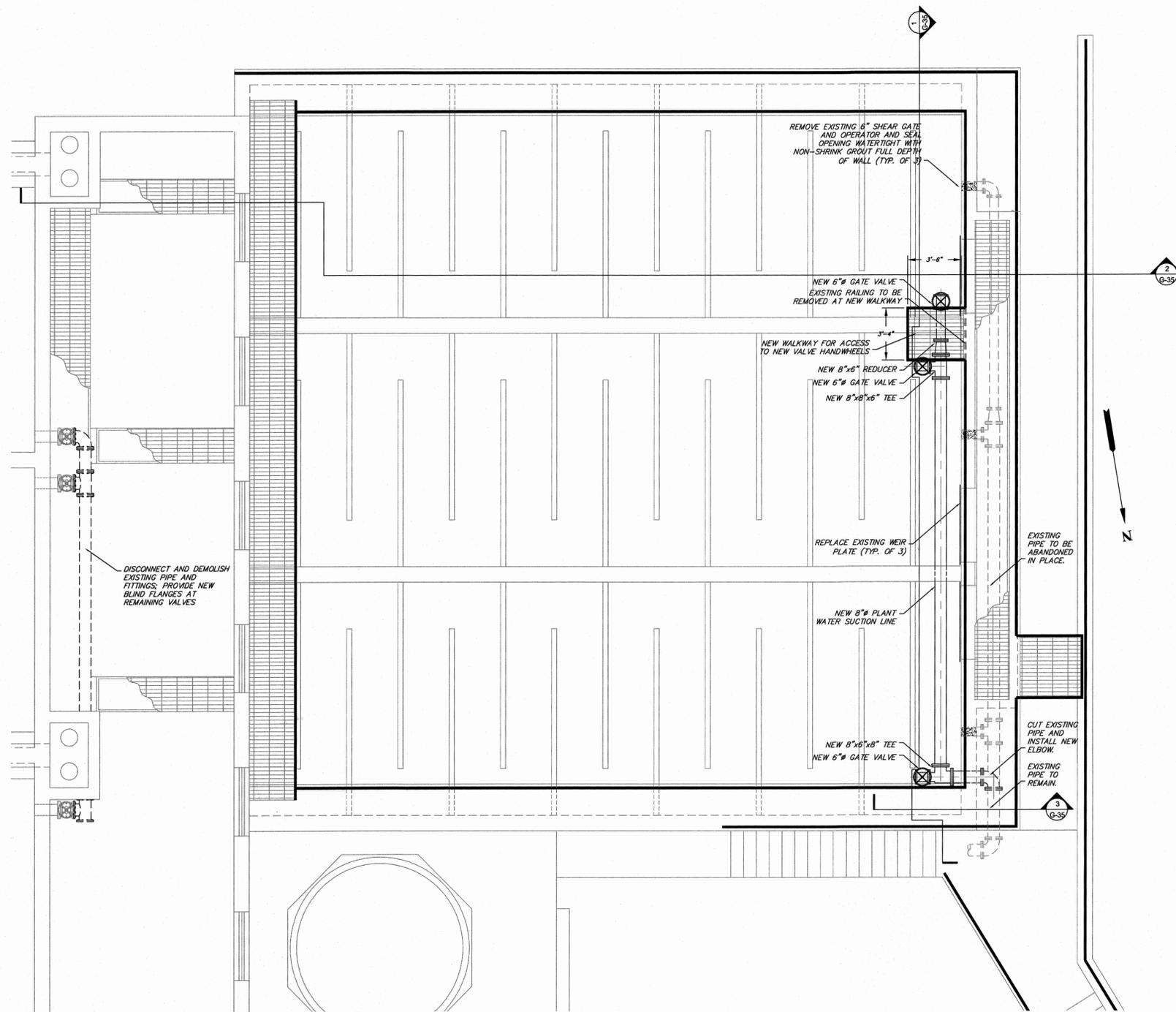


ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY
SLUDGE PUMPING STATION LOWER LEVEL INSTALLATION PLANS

MORRIS ASSOCIATES,
 ENGINEERING AND SURVEYING CONSULTANTS, PLLC
 9 Elk Lane, Poughkeepsie, New York 12601
 Phone No. (845) 454-3411
 Fax No. (845) 473-1962

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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-31



1 PLAN
G-34 SCALE: 1/4"=1'-0"

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/20/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

DISINFECTION AREA PLAN

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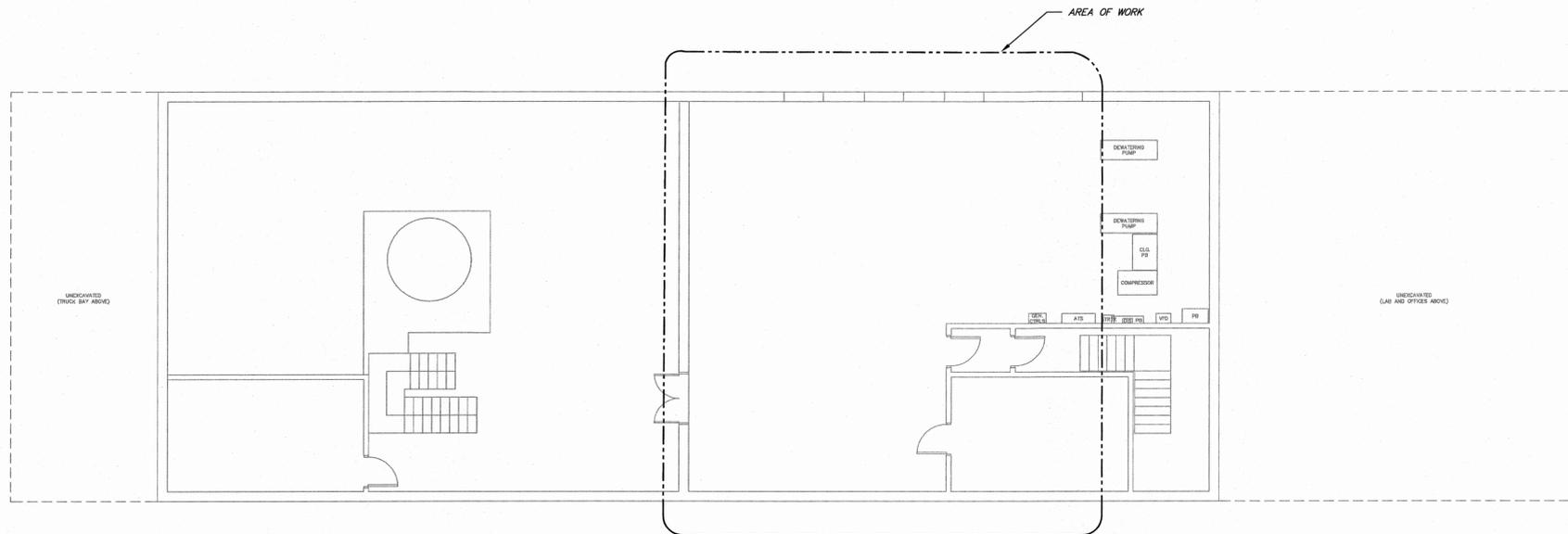
MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC

9 Elks Lane, Poughkeepsie, New York 12601
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Fax No. (845) 473-1962

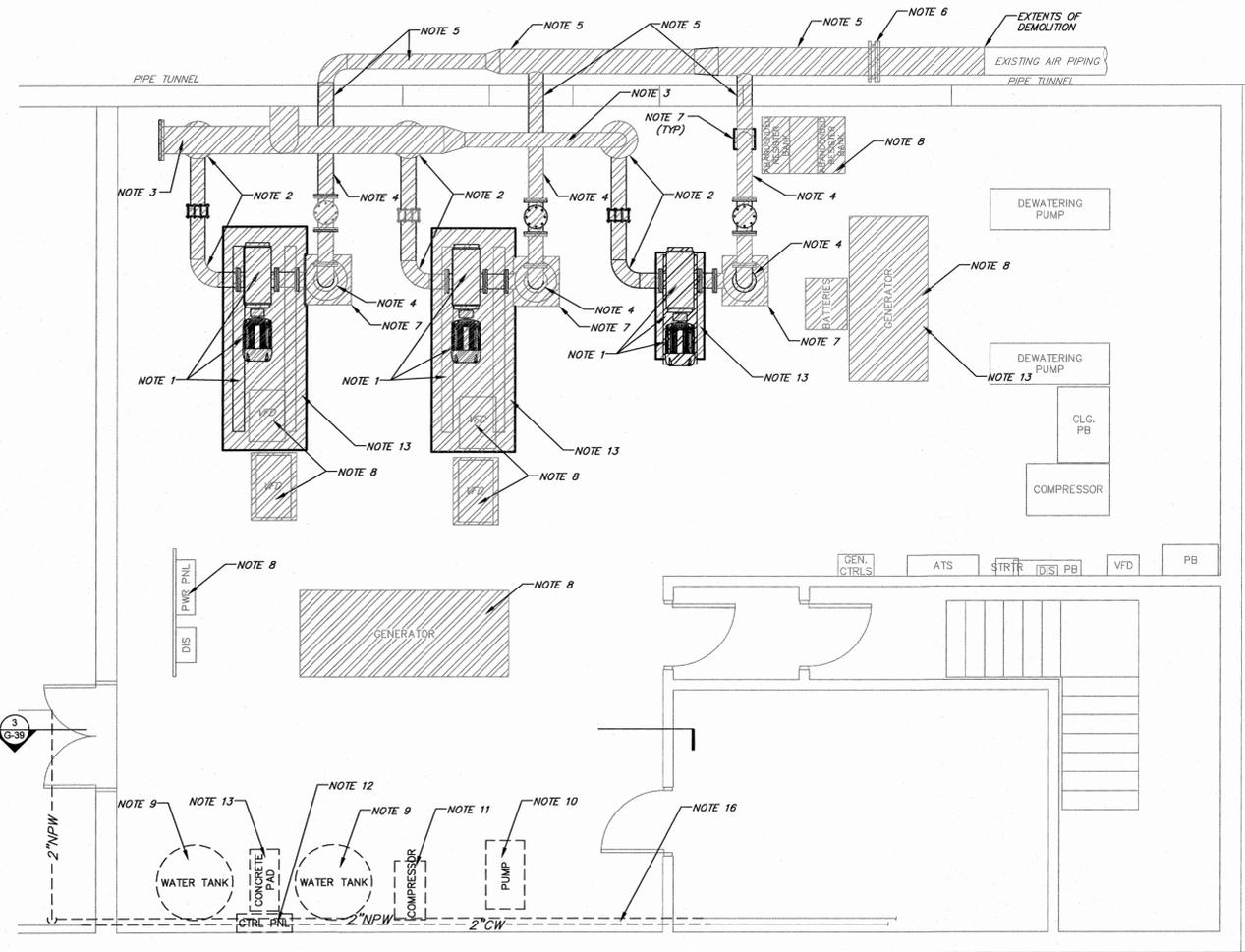
64 Green Street, Hudson, New York 12534
Phone No. (518) 828-2300
Fax No. (518) 828-3963

DATE: 01/15/14 SCALE: AS SHOWN
DESIGNED BY: MA - RJJ
DRAWN BY: MA
CHECKED BY: MA - RJJ/JFL

FILE No.: 60401.30 DRAWING No.: G-34

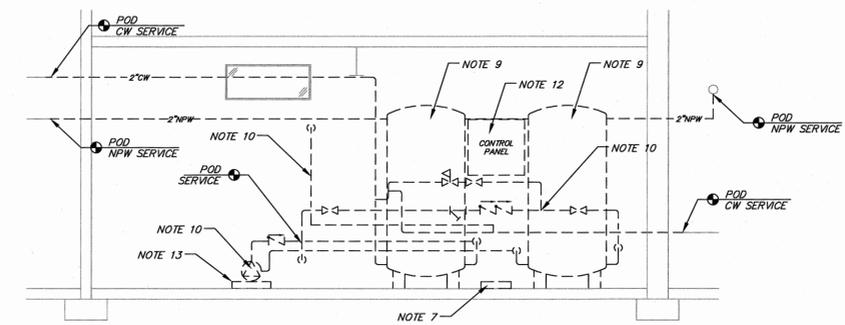


1 KEY PLAN - CONTROL BLDG. LOWER LEVEL
G-39 SCALE: 1/8"=1'-0"



2 PLAN - DEMOLITION
G-39 SCALE: 1/4"=1'-0"

IDENTIFIES EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED



3 SECTION - DEMOLITION
G-39 SCALE: 1/4"=1'-0"

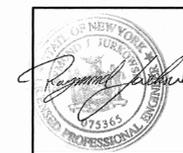
DEMOLITION NOTES:

- CONTRACTOR SHALL REMOVE AND DISPOSE OF THREE (3) EXISTING AERATION BLOWERS, MOTORS, AND BLOWER/MOTOR FRAMES AS INDICATED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING INTAKE PIPING, INTAKE SILENCERS, AND PIPING SUPPORTS AS INDICATED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING INTAKE HEADER PIPING IN COMPRESSOR ROOM, AS WELL AS INTAKE PIPING THROUGH EXTERIOR WALL TO INTAKE FILTER. REMOVE AND DISPOSE INTAKE FILTER.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING DISCHARGE PIPING, DISCHARGE SILENCERS, AND PIPING SUPPORTS INDICATED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING DISCHARGE PIPING AND SUPPORT THAT HAS PENETRATED THE WALL INTO THE PIPE TUNNEL. REMOVE PIPE TUNNEL PIPING TO THE EXTENT INDICATED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING ORIFICE PLATE, ASSOCIATED EQUIPMENT AND SUPPORT IN THE PIPE TUNNEL.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING CONCRETE PADS USED FOR INTAKE AND DISCHARGE SILENCERS, AS WELL AS CONCRETE PADS USED FOR PIPE SUPPORTS.
- CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR, THE REMOVAL AND DISPOSAL OF EXISTING ELECTRICAL EQUIPMENT ASSOCIATED WITH ALL BLOWER EQUIPMENT.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF TWO (2) EXISTING WATER STORAGE TANKS AS INDICATED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING COMPRESSOR AND ALL ASSOCIATED EQUIPMENT AS INDICATED.
- CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR, THE REMOVAL AND DISPOSAL OF EXISTING CONTROL PANEL AND ALL ASSOCIATED EQUIPMENT AS INDICATED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING CONCRETE PADS USED FOR EQUIPMENT BEING REMOVED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WINDOWS AND PREPARE ROUGH OPENING FOR THE INSTALLATION OF NEW LOUVERS.
- CONTRACTOR SHALL REPAIR AND RESTORE FINISH FLOOR AFTER REMOVAL/INSTALLATION OF ALL CONCRETE PADS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING COLD WATER AND NON-POTABLE PIPING AND PIPING SUPPORTS AS INDICATED, COORDINATE REMOVALS WITH THE INSTALLATION OF ELECTRICAL ROOM AND EQUIPMENT.
- ALL WORK SHALL BE STAGED AND SCHEDULED IN ACCORDANCE WITH DIVISION 1 REQUIREMENTS.

GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- CONTRACTOR SHALL COORDINATE THE REMOVAL AND DISPOSAL OF ALL EQUIPMENT, VALVES, PIPING, PIPING ACCESSORIES, AND SUPPORT ASSOCIATED WITH THE CONTRACT DRAWINGS WITH WORK BY OTHER CONTRACTS AND OWNER.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT, VALVES, PIPING, PIPING ACCESSORIES, AND SUPPORT ASSOCIATED WITH THE CONTRACT DRAWINGS WITH WORK BY OTHER CONTRACTS AND OWNER.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AFTER FINAL EQUIPMENT SELECTIONS. FINAL EQUIPMENT SELECTIONS MAY AFFECT FINAL LOCATION OF EQUIPMENT AND PIPING CONFIGURATIONS.

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 80% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



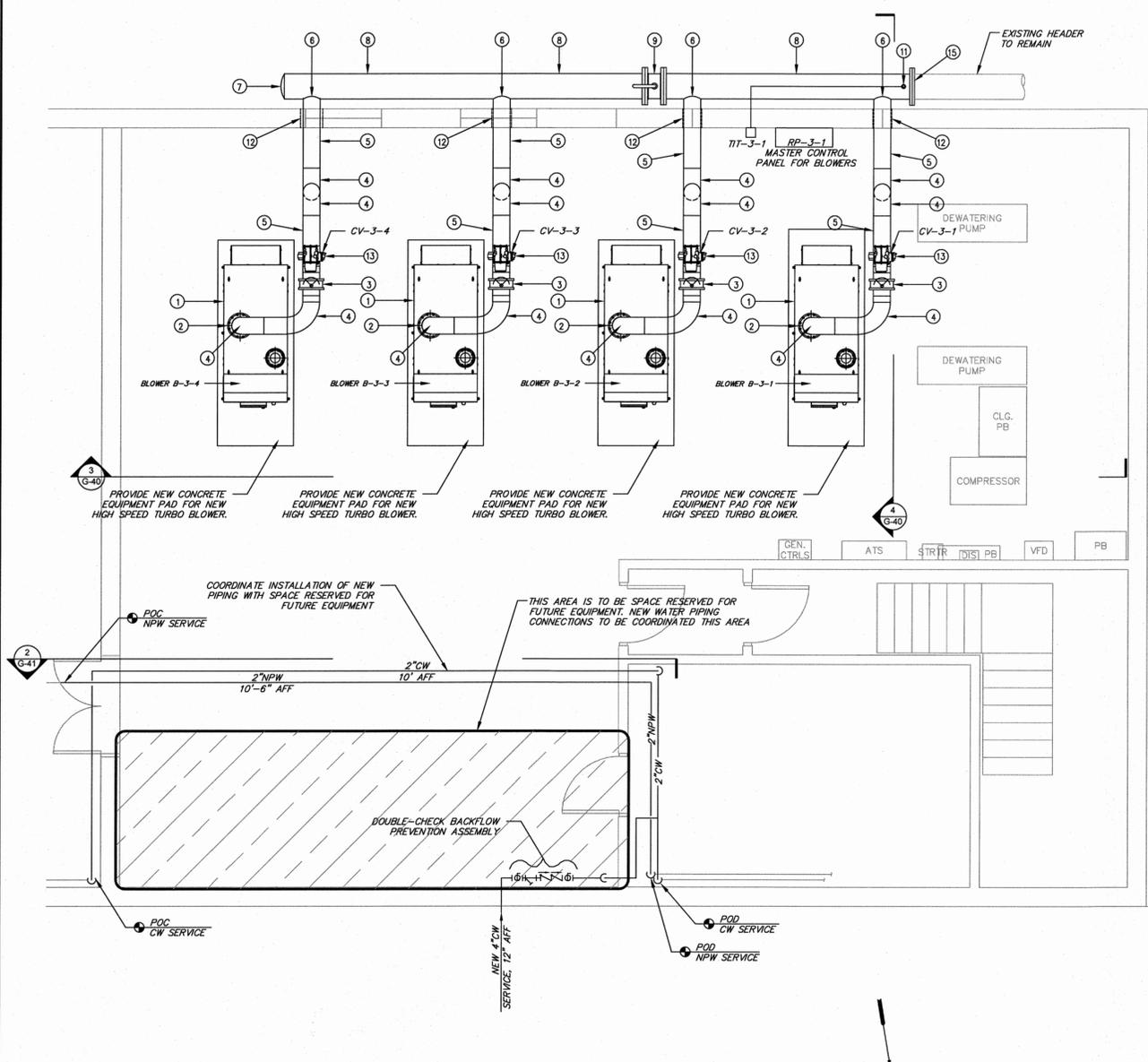
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

CONTROL BLDG. COMPRESSOR ROOM
KEY PLAN AND DEMOLITION PLANS

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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-39
		CHECKED BY		
		MA - RJJ/JFL		

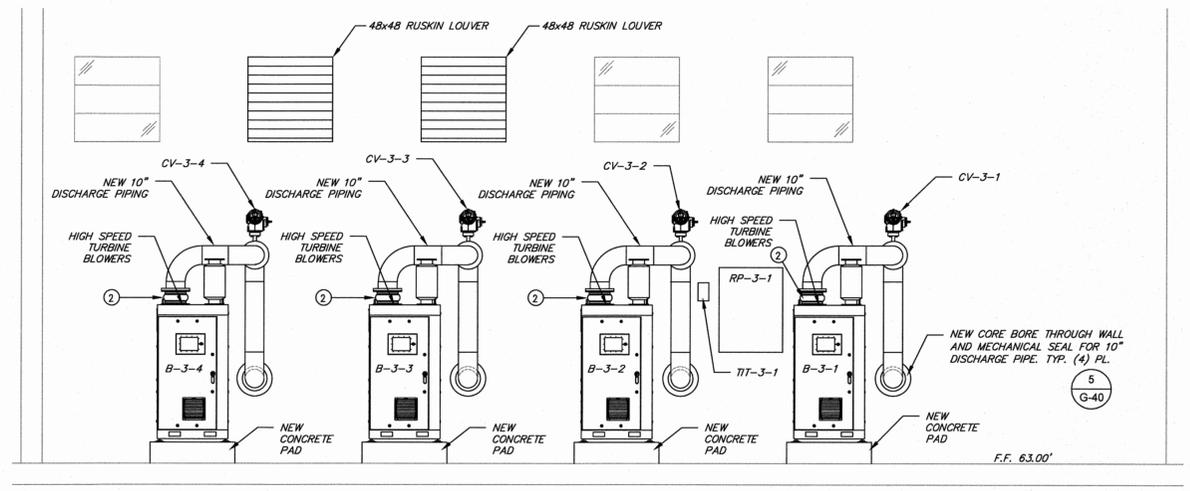
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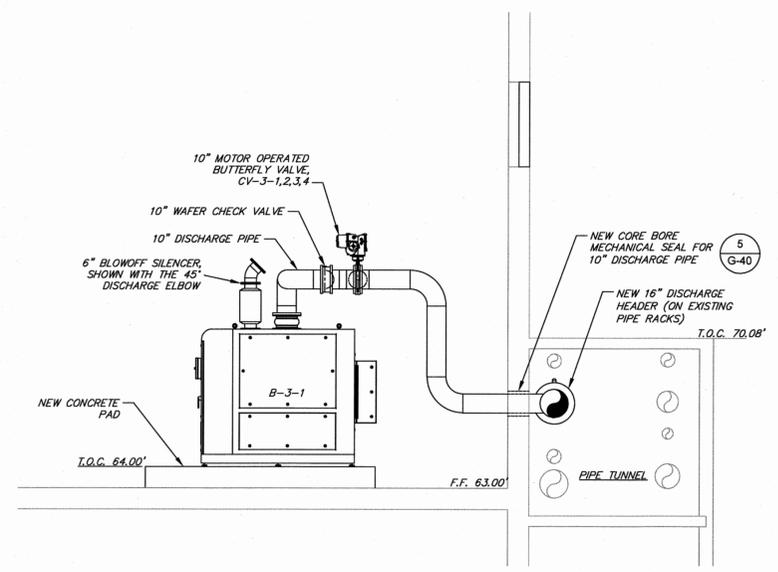
2 PLAN - DISCHARGE PIPING
G-40 SCALE: 1/4"=1'-0"

- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 - CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT, VALVES, PIPING, PIPING ACCESSORIES, AND SUPPORT ASSOCIATED WITH THE CONTRACT DRAWINGS WITH WORK BY OTHER CONTRACTS AND OWNER.
 - CONTRACTOR SHALL COORDINATE THE REMOVAL OF TWO WINDOWS AND INSTALLATION OF TWO LOUVERS.
 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AFTER FINAL EQUIPMENT SELECTIONS. FINAL EQUIPMENT SELECTIONS MAY EFFECT FINAL LOCATION OF EQUIPMENT AND PIPING CONFIGURATIONS.

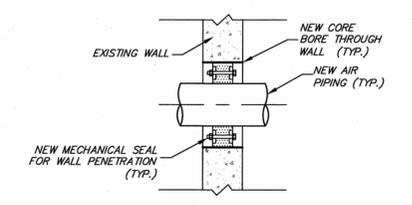
- | # | DESCRIPTION |
|----|--|
| 1 | HIGH SPEED TURBO BLOWERS |
| 2 | 10" FLANGED EXPANSION JOINT |
| 3 | 10" WAFER CHECK VALVE |
| 4 | 10" 90 DEG ELBOW |
| 5 | 10" DISCHARGE PIPING |
| 6 | 10" BRANCH TAP (INSIDE PIPE TUNNEL) |
| 7 | 16" END CAP |
| 8 | 16" DISCHARGE HEADER |
| 9 | 16" BUTTERFLY VALVE |
| 10 | 16" ORIFICE PLATE |
| 11 | 1-1/2" WELDED COUPLING (TEMPERATURE SENSOR WELL) |
| 12 | PROVIDE PENETRATION, WALL SLEEVE & MECHANICAL SEAL FOR 10" PIPING |
| 13 | 10" MOTORIZED BUTTERFLY VALVE |
| 14 | NEW AIR INTAKE LOUVERS IN WINDOW OPENINGS |
| 15 | PROVIDE NEW WELDED CLASS 150 FLANGE AT EXISTING PIPE END REMAINING |



3 SECTION
G-40 SCALE: 1/4"=1'-0"



4 SECTION
G-40 SCALE: 1/4"=1'-0"



5 WALL SLEEVE AND MECHANICAL SEAL DETAIL
G-40 SCALE: NONE

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/09/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	8/30/14	MA

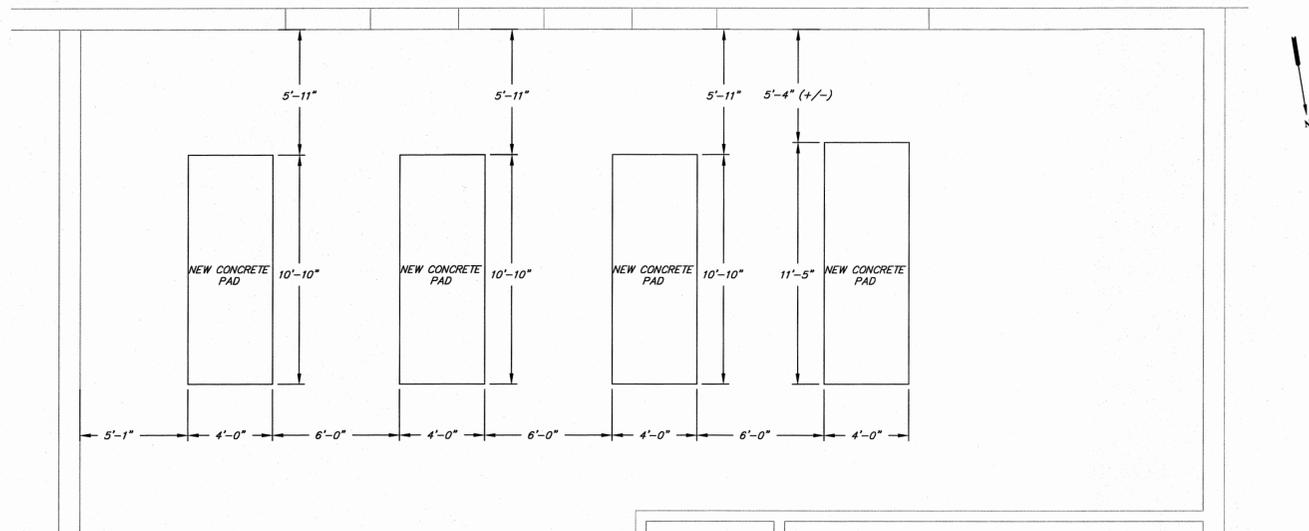
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

CONTROL BLDG. COMPRESSOR ROOM INSTALLATION PLANS AND DETAILS - 1

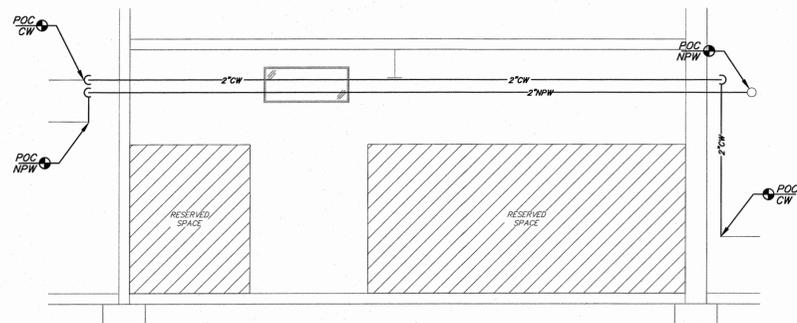
MORRIS & ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elks Lane, Poughkeepsie, New York 12601
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-40

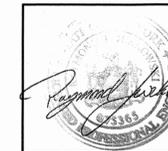


1 PLAN - EQUIPMENT PADS
G-41 SCALE: 1/4"=1'-0"



2 SECTION - WATER PIPING CONNECTIONS
G-41 SCALE: 1/4"=1'-0"

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY

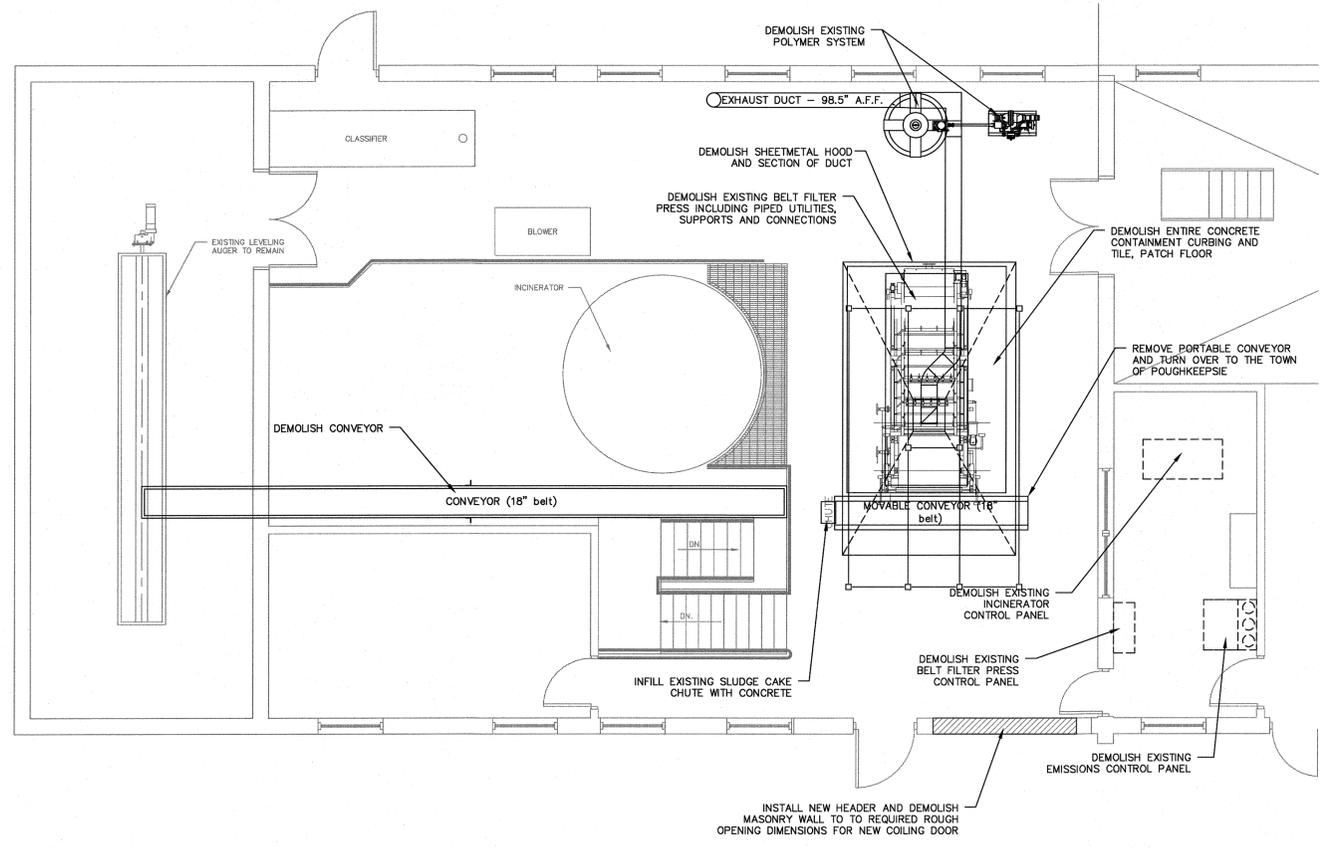


ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY
CONTROL BLDG. COMPRESSOR ROOM INSTALLATION PLANS AND DETAILS - 2

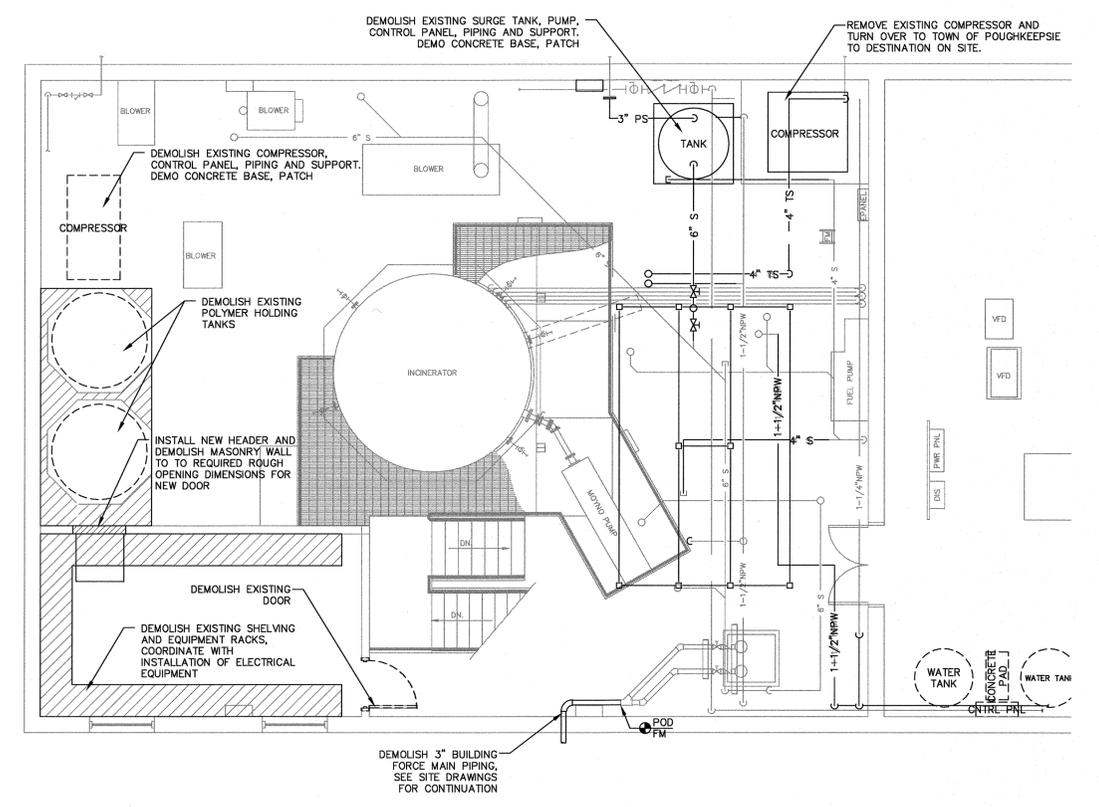
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-41
		DRAWN BY: MA		
		CHECKED BY: MA - RJJ/JFL		



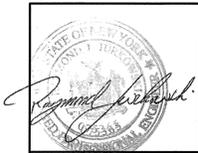
1 PLAN - UPPER LEVEL
G-42 SCALE: 3/16"=1'-0"



2 PLAN - LOWER LEVEL
G-42 SCALE: 3/16"=1'-0"

NOTES:
1. PIPING AND EQUIPMENT FOR REMOVAL IS IDENTIFIED AS HEAVY DARK LINES.

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	8/30/14	MA
2	DESIGN REVIEW REVISIONS	6/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

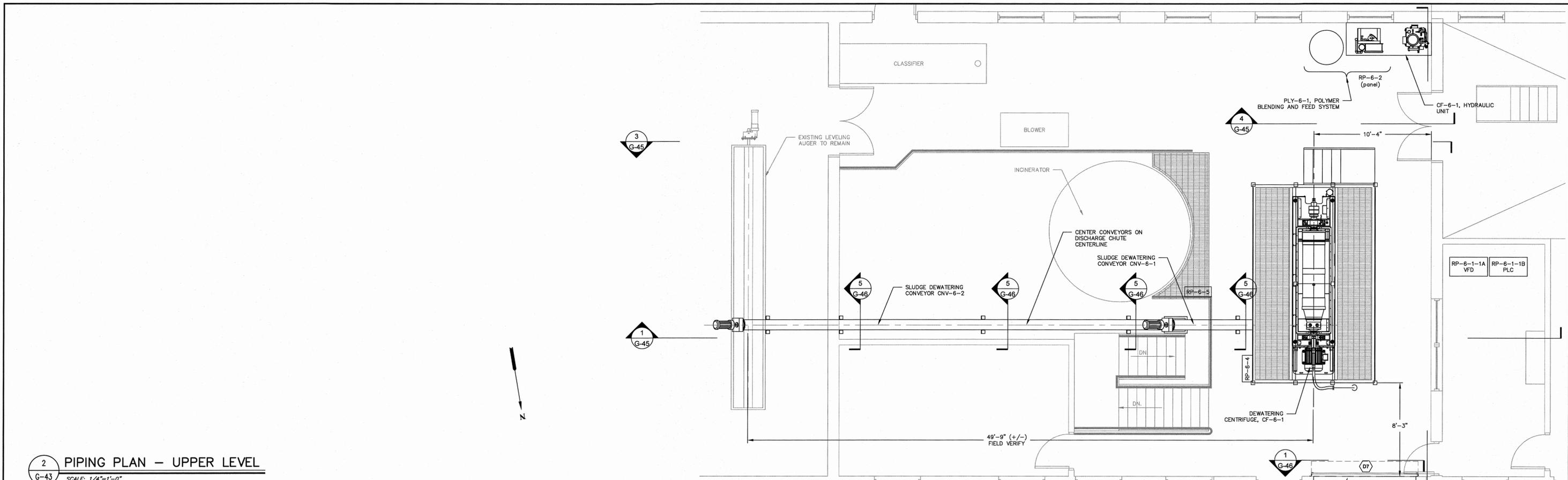
SLUDGE DEWATERING BELT FILTER PRESS DEMOLITION

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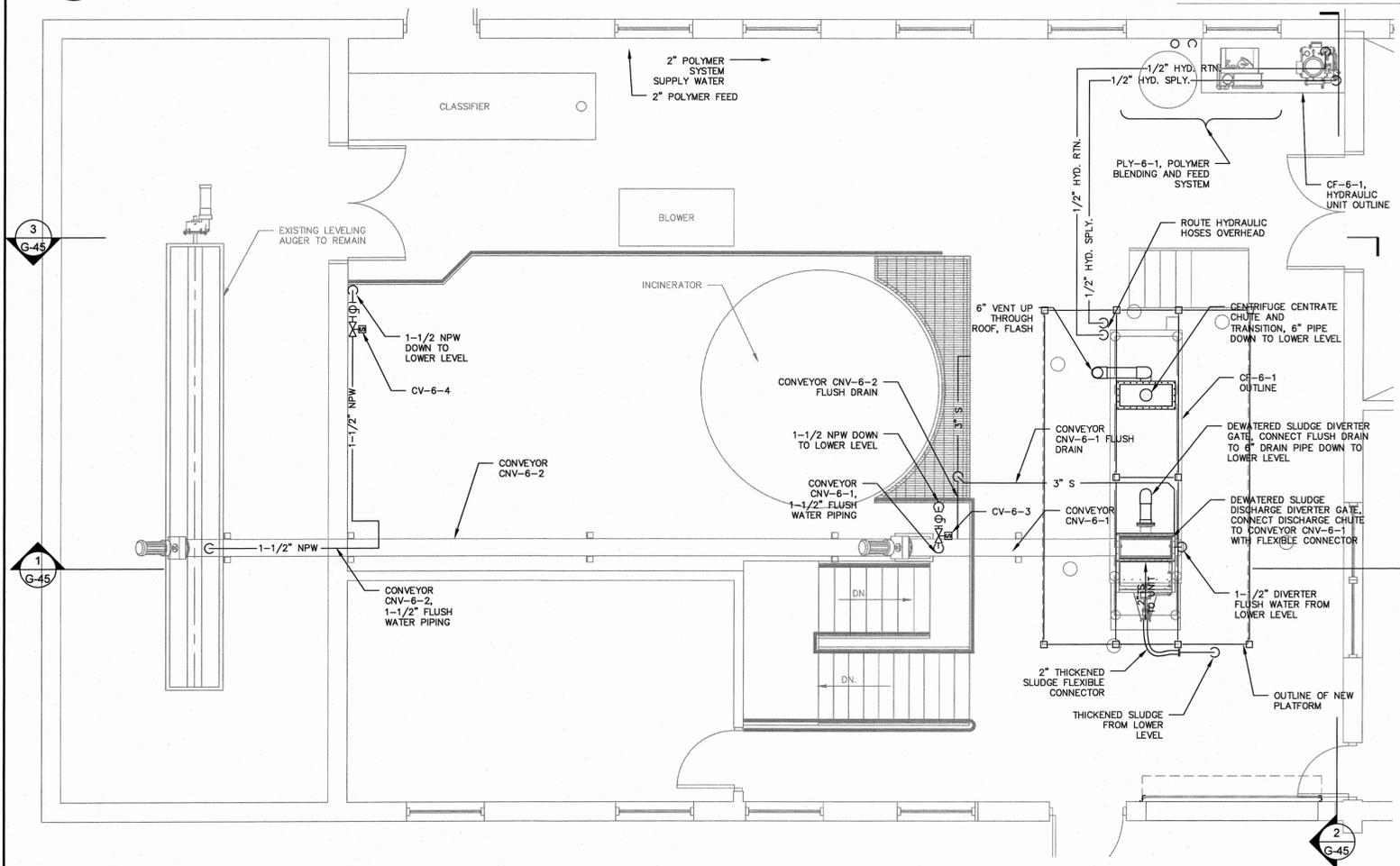
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-42



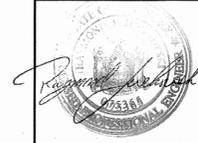
2 PIPING PLAN - UPPER LEVEL
 G-43 SCALE: 1/4"=1'-0"



PROVIDE OPENING IN EXISTING CMU WALL. INSTALL COILING DOOR. DOOR SHALL BE INSTALLED PER MANUF. INSTRUCTIONS (9'-4" HEIGHT) SEE DETAIL 1/G-46

1 EQUIPMENT PLAN - UPPER LEVEL
 G-43 SCALE: 1/4"=1'-0"

5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



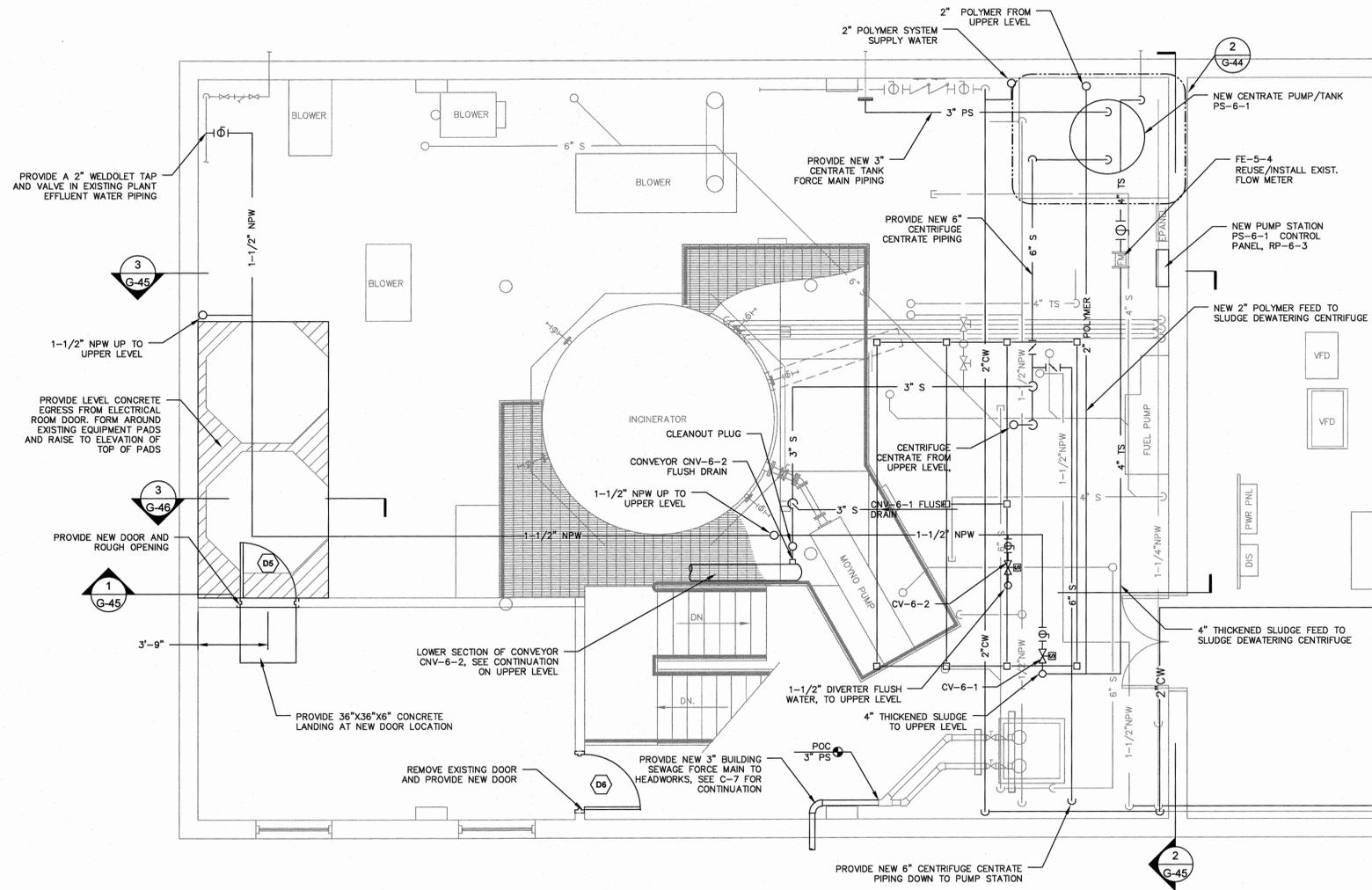
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

SLUDGE DEWATERING UPPER LEVEL PLANS

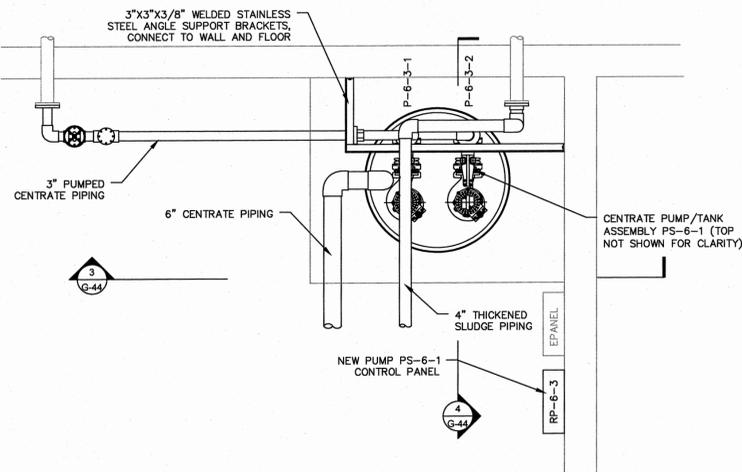
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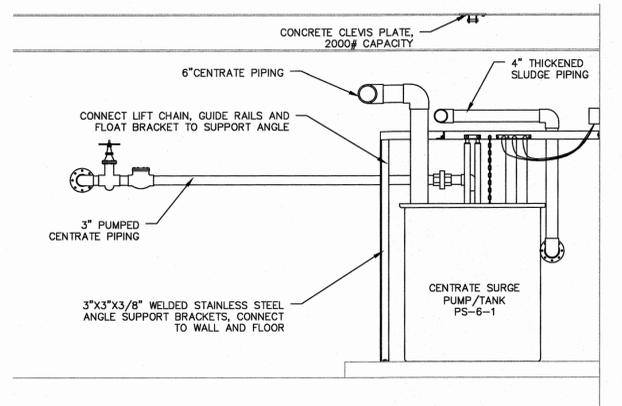
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-43
		DRAWN BY: MA		
		CHECKED BY: MA - RJJ/JFL		



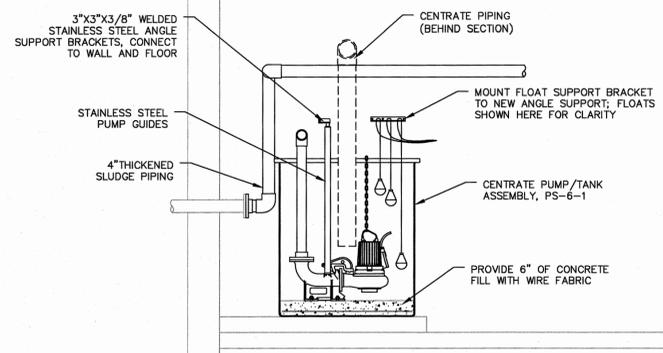
1 PLAN - LOWER LEVEL
G-44 SCALE: 1/4"=1'-0"



2 CENTRATE SURGE TANK PLAN
G-44 SCALE: 3/8"=1'-0"

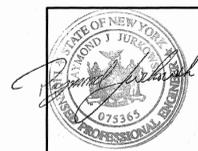


3 ELEVATION
G-44 SCALE: 3/8"=1'-0"



4 SECTION
G-44 SCALE: 3/8"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



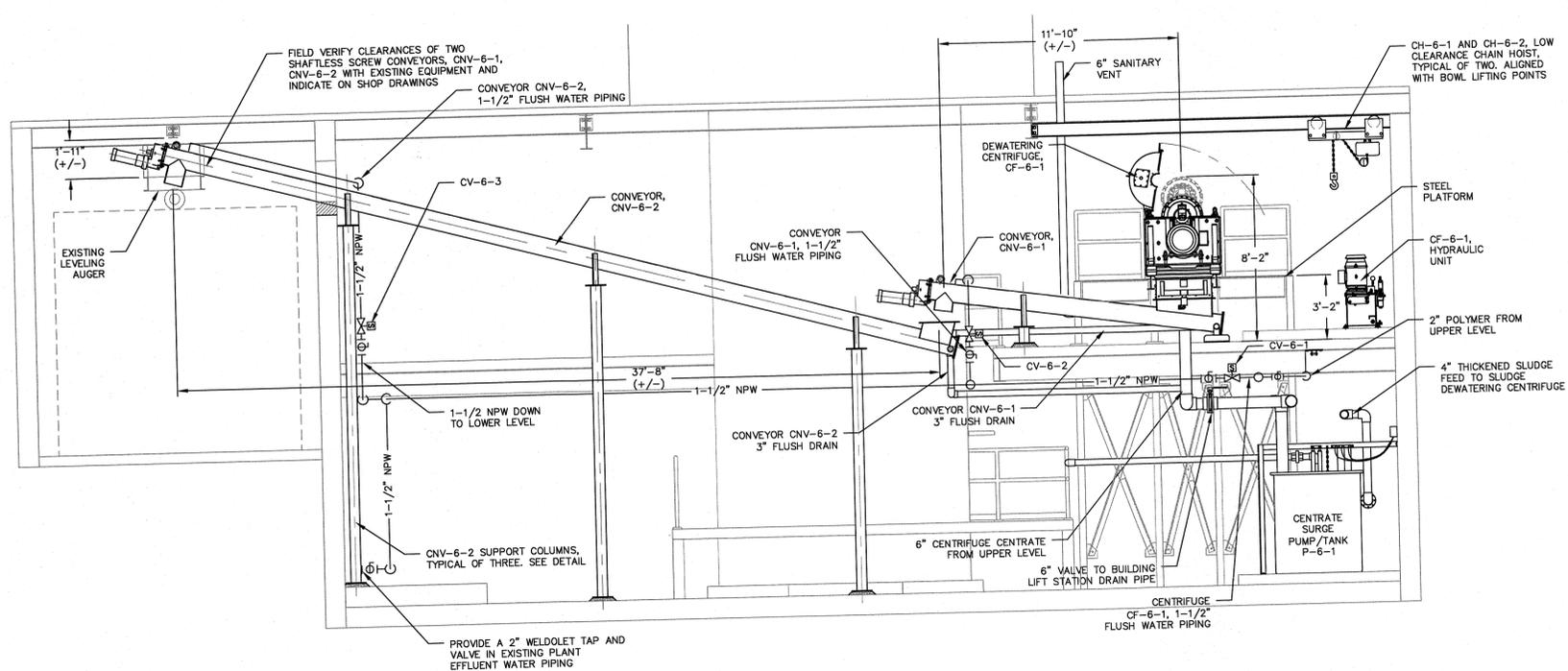
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

SLUDGE DEWATERING LOWER LEVEL PLANS AND DETAILS

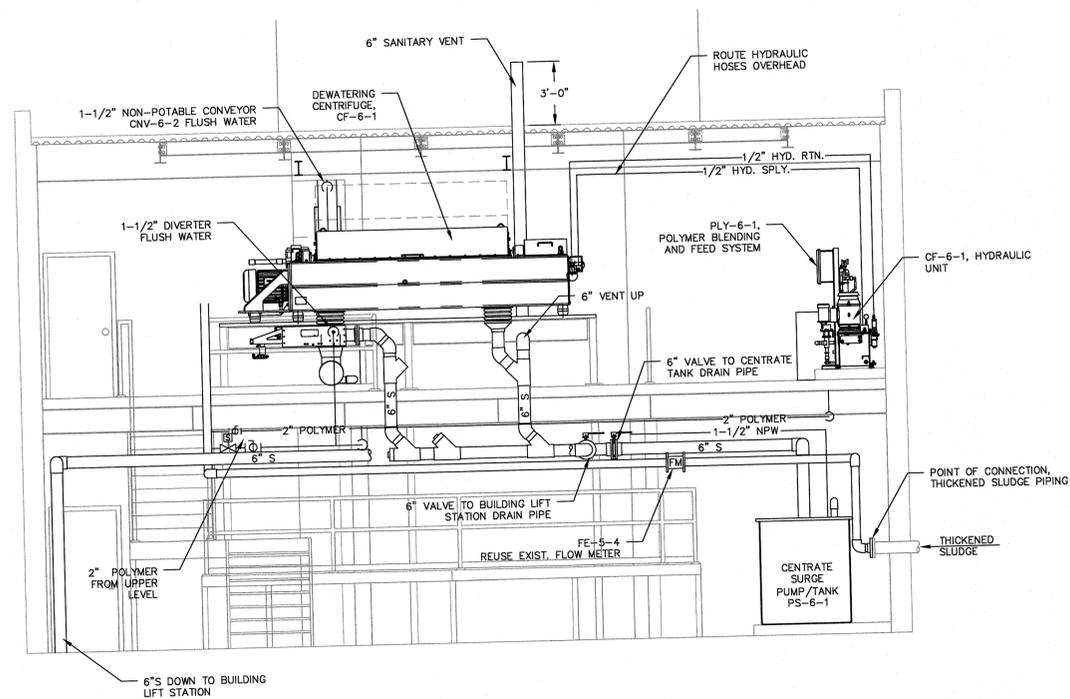
MORRIS ASSOCIATES,
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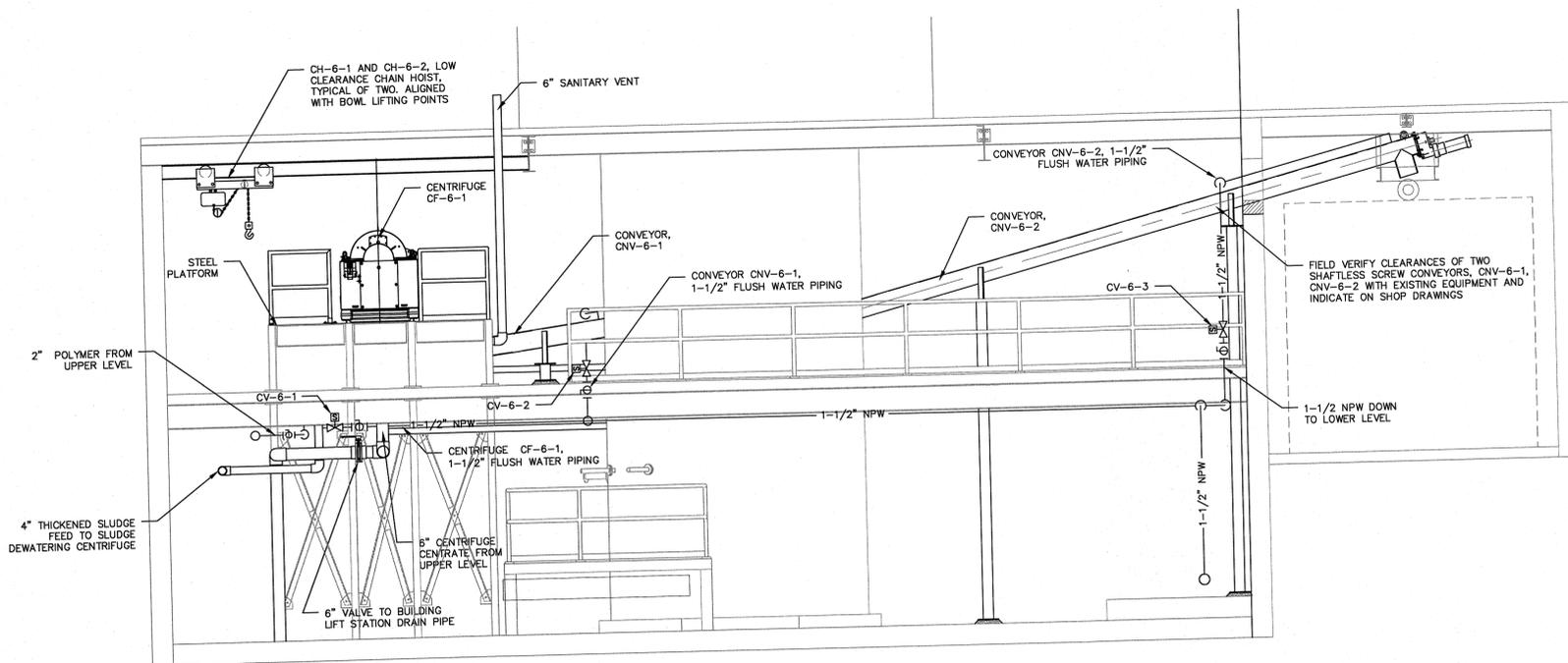
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-44



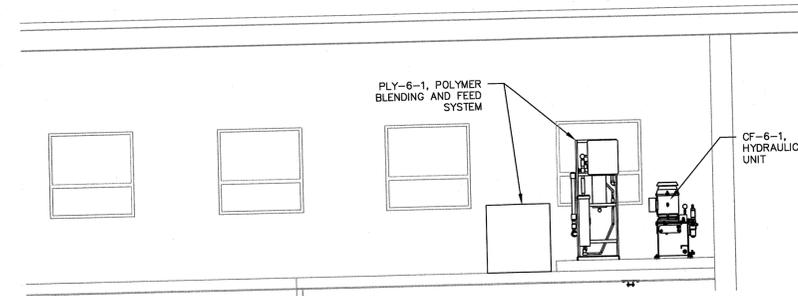
1 ELEVATION
G-45 SCALE: 1/4"=1'-0"



2 ELEVATION
G-45 SCALE: 1/4"=1'-0"



3 ELEVATION
G-45 SCALE: 1/4"=1'-0"



4 ELEVATION
G-45 SCALE: 3/8"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
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1	ISSUED FOR 30% REVIEW	6/30/14	MA

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

SLUDGE DEWATERING ELEVATIONS

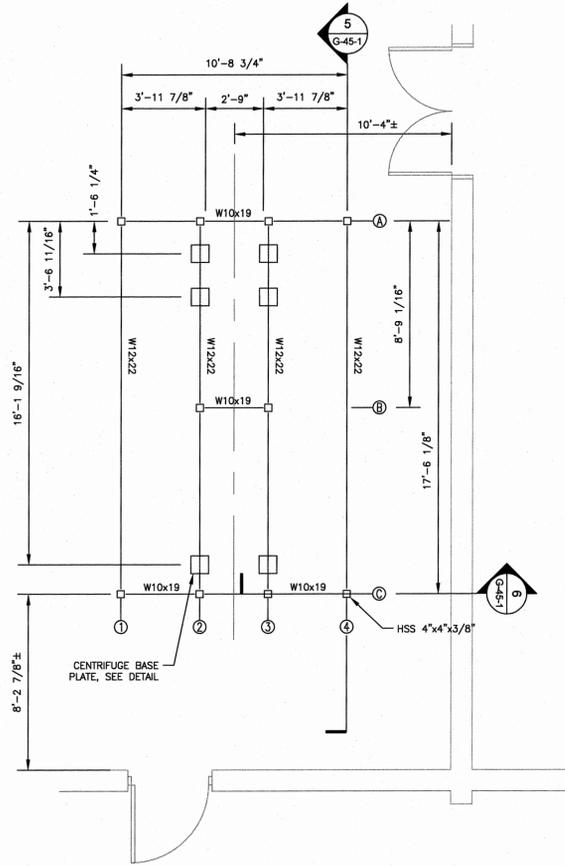
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Phone No. (845) 454-3411
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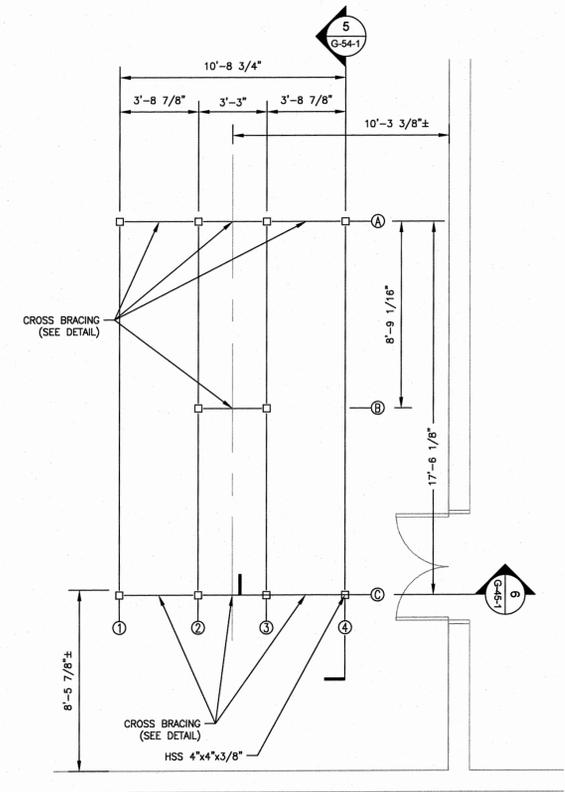
44 Green Street
Hudson, New York 12534
Phone No. (518) 828-2300
Fax No. (518) 828-3963

DATE: 01/15/14 SCALE: AS SHOWN DESIGNED BY: MA - RJJ DRAWN BY: MA CHECKED BY: MA - RJJ/JFL FILE No.: 60401.30 DRAWING No.: G-45

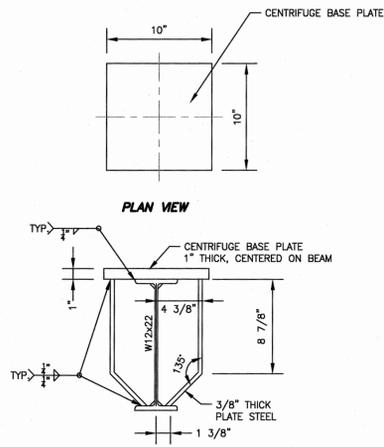
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE PLANS, SPECIFICATIONS OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.



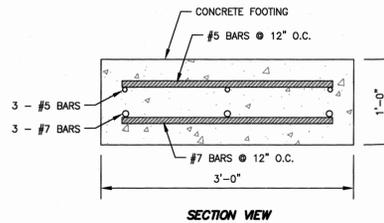
1 UPPER LEVEL FRAMING PLAN
G-45-1 SCALE: 1/4"=1'-0"



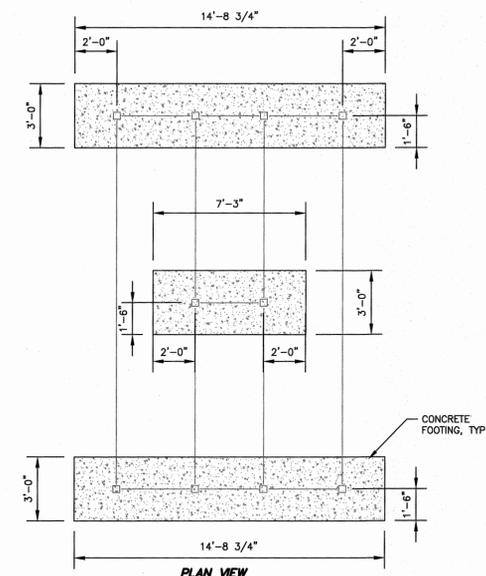
2 LOWER LEVEL FRAMING PLAN
G-45-1 SCALE: 1/4"=1'-0"



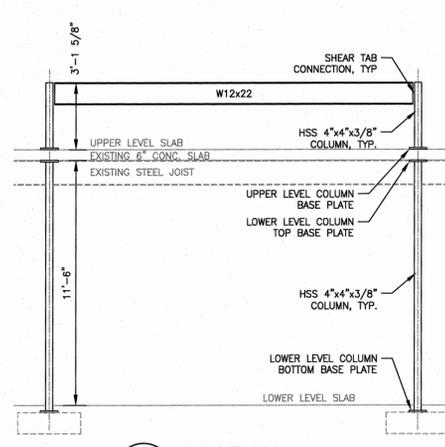
3 CENTRIFUGE BASE PLATE DETAIL
G-45-1 SCALE: 1 1/2"=1'-0"



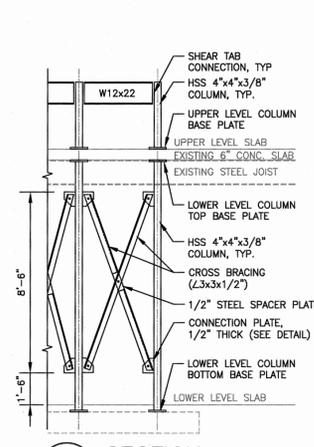
4B FOOTING SECTION
G-45-1 SCALE: 1"=1'-0"



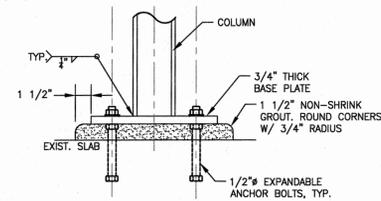
4A FOOTING PLAN
G-45-1 SCALE: 1/4"=1'-0"



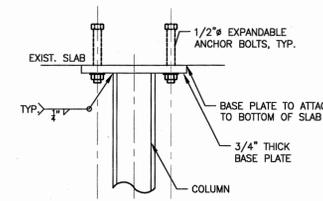
5 SECTION
G-45-1 SCALE: 1/4"=1'-0"



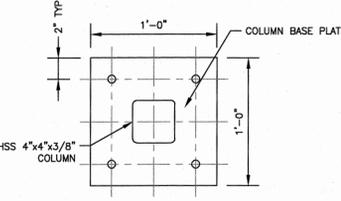
6 SECTION
G-45-1 SCALE: 1/4"=1'-0"



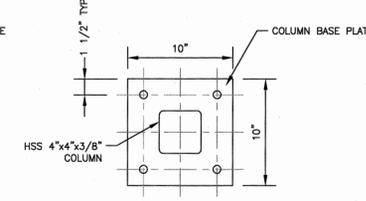
UPPER & LOWER LEVEL BASE PLATE ELEVATION VIEW



LOWER LEVEL TOP BASE PLATE ELEVATION VIEW

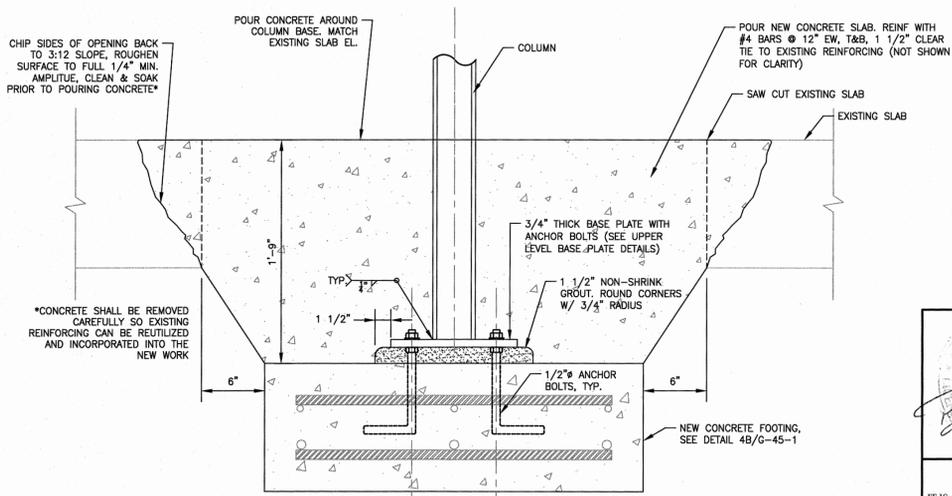


UPPER & LOWER LEVEL BASE PLATE PLAN VIEW

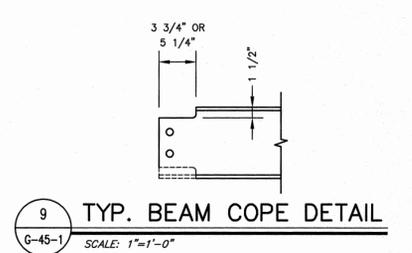


LOWER LEVEL TOP BASE PLATE PLAN VIEW

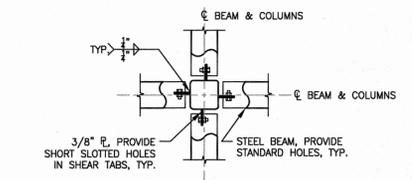
7 COLUMN BASE PLATE DETAILS
G-45-1 SCALE: 1 1/2"=1'-0"



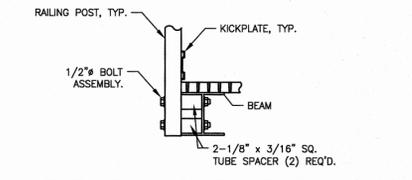
8 COLUMN FOOTING & BASE PLATE DETAIL
G-45-1 SCALE: 1 1/2"=1'-0"



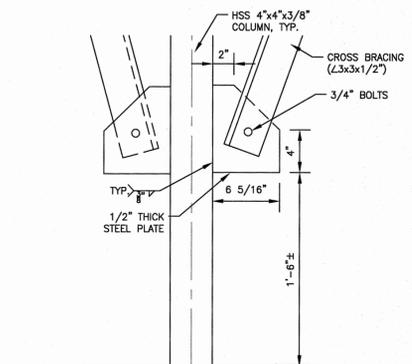
9 TYP. BEAM COPE DETAIL
G-45-1 SCALE: 1"=1'-0"



10 TYP. SHEAR TAB CONNECTION
G-45-1 SCALE: 1"=1'-0"

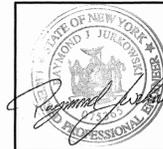


11 TYP. RAILING POST TO STEEL BEAM CONNECTION
G-45-1 SCALE: 1"=1'-0"



12 CROSS-BRACING CONNECTION PLATE DETAIL
G-45-1 SCALE: 1 1/2"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	8/30/14	MA

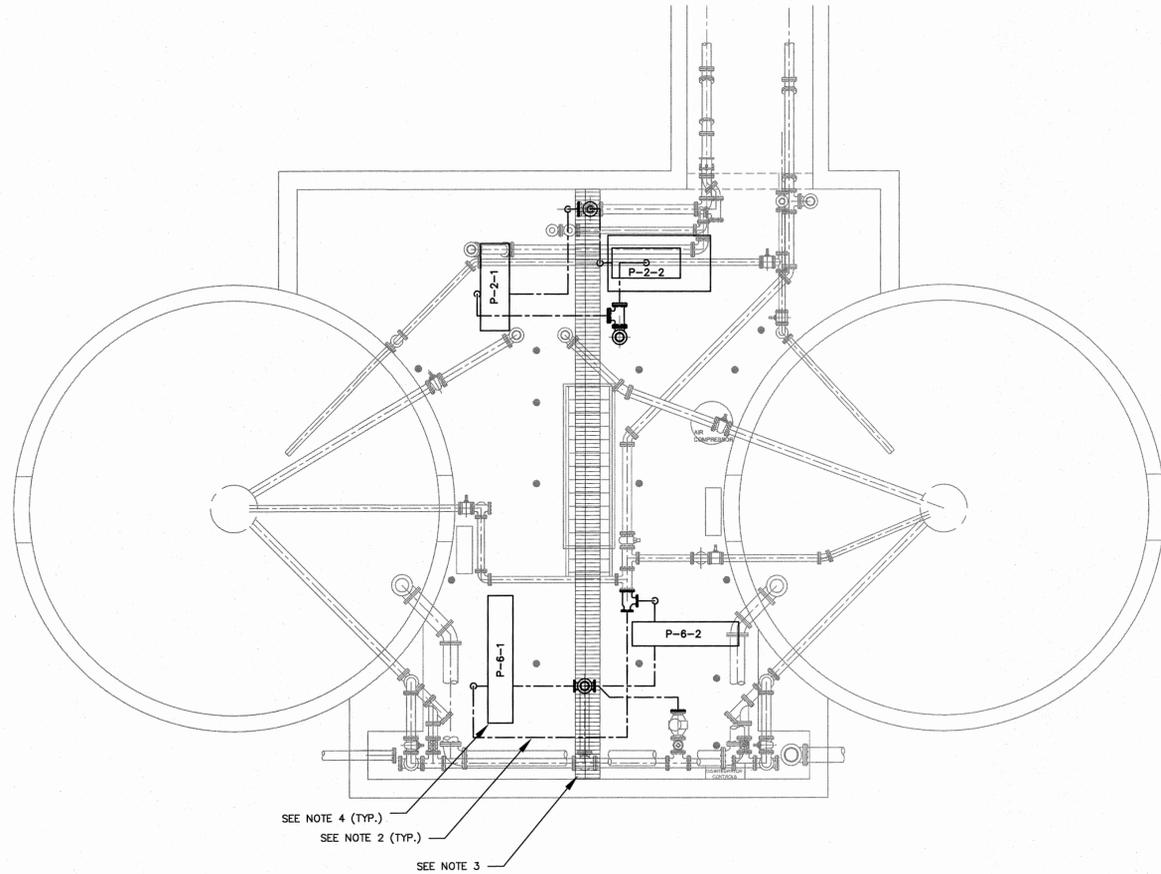


ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY
SLUDGE DEWATERING SUPPORT STRUCTURAL PLAN & DETAILS

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE PLANS, SPECIFICATIONS OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elks Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411
Fax No. (845) 473-1962
64 Green Street, Hudson, New York 12534
Phone No. (518) 828-2300
Fax No. (518) 828-3963

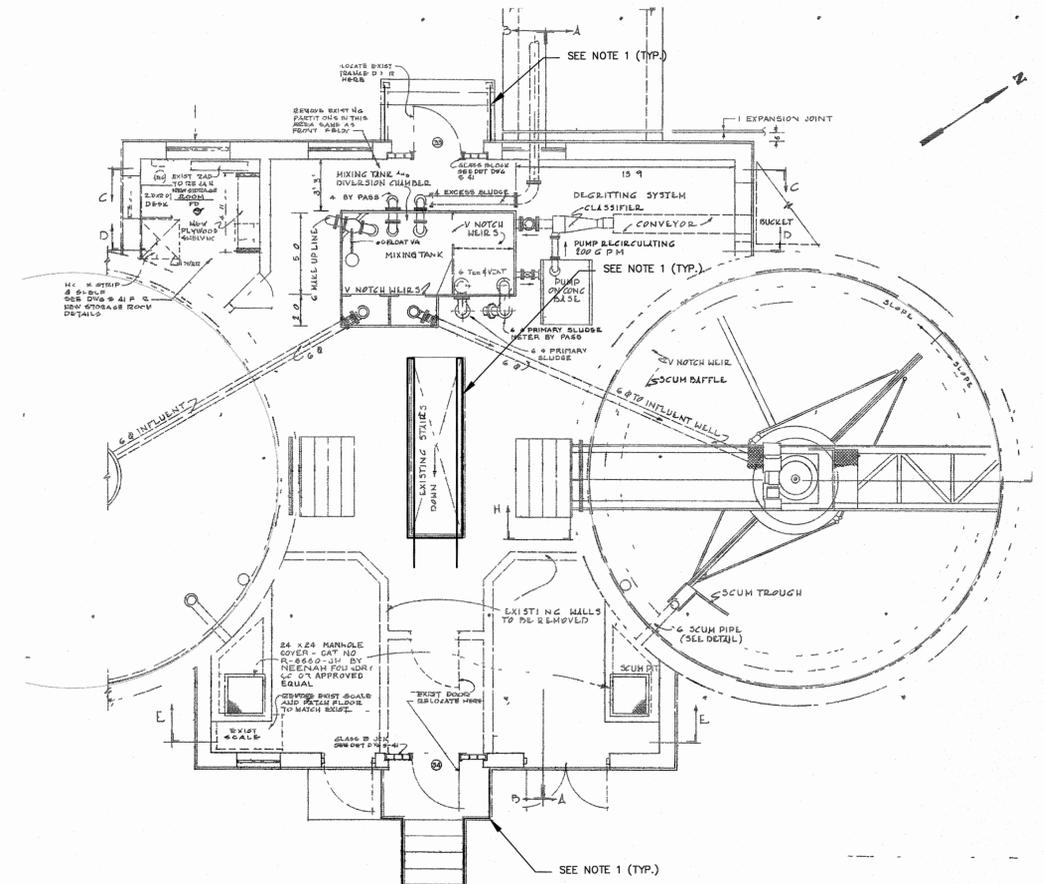
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
FEB. 2015	AS SHOWN	PSM-RJJ	60401.30	G-45-1



1 DEMOLITION PLAN - LOWER LEVEL
 G-47 SCALE: 3/16"=1'-0"

NOTES:

1. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING RAILINGS.
2. CONTRACTOR TO REMOVE AND DISPOSE OF SLUDGE PIPING, VALVES, AND ASSOCIATED PIPE SUPPORTS.
3. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING GRATING.
4. CONTRACTOR TO REMOVE AND DISPOSE OF FOUR SLUDGE PUMPS (P-2-1, P-2-2, P-6-1, AND P-6-2) AND THEIR CONCRETE BASES.



2 DEMOLITION PLAN - UPPER LEVEL
 G-47 SCALE: 3/16"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

THICKENER BUILDING DEMOLITION PLANS

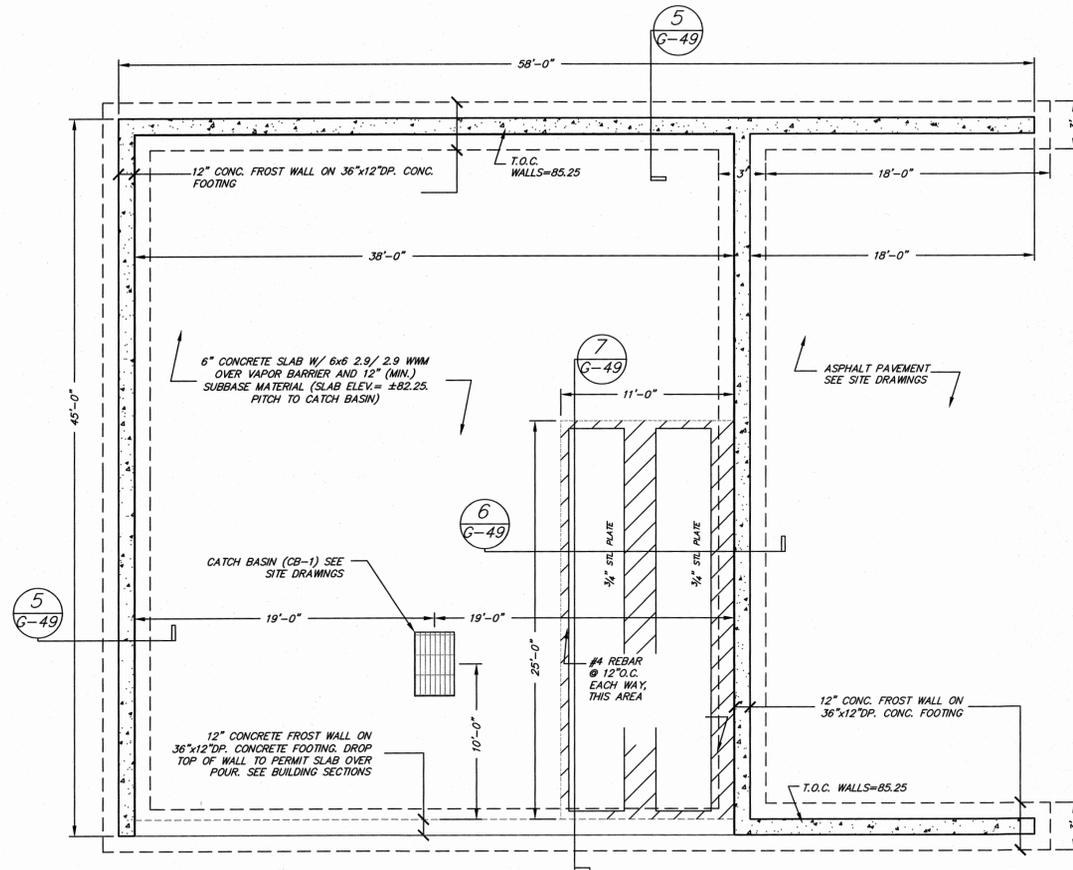
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MORRIS ASSOCIATES,
 ENGINEERING AND SURVEYING CONSULTANTS, PLLC

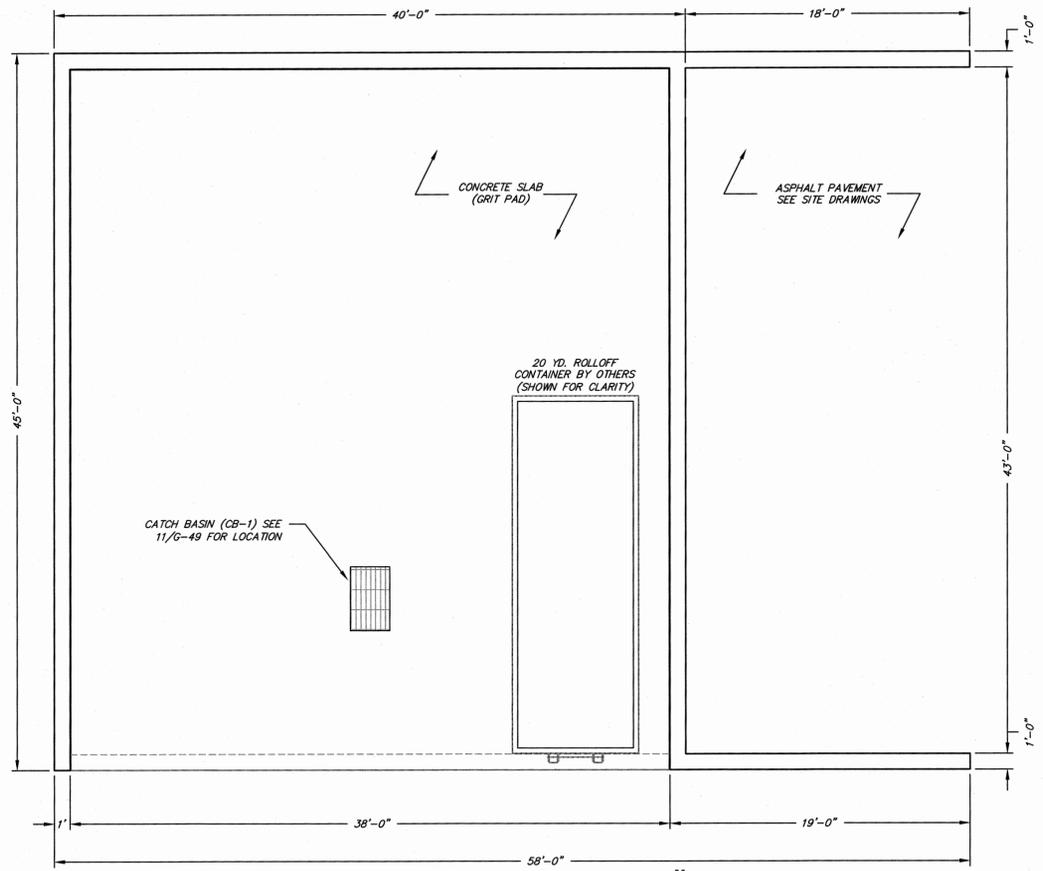
9 Elks Lane,
 Poughkeepsie, New York 12601
 Phone No. (845) 454-3411
 Fax No. (845) 473-1962

64 Green Street
 Hudson, New York 12534
 Phone No. (518) 828-2300
 Fax No. (518) 828-3963

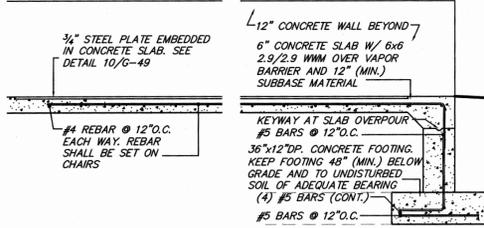
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	G-47
		CHECKED BY		
		MA - RJJ / JFL		



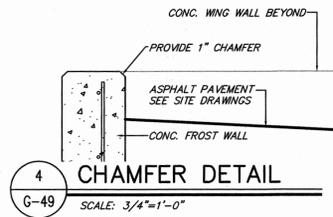
1 FOUNDATION PLAN
G-49 SCALE: 3/32"=1'-0"



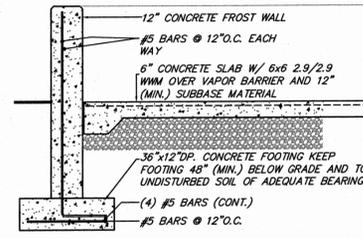
2 FLOOR PLAN
G-49 SCALE: 3/32"=1'-0"



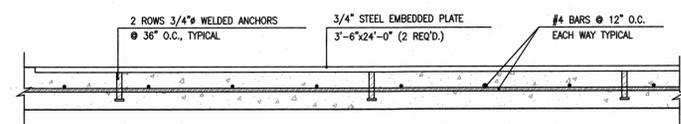
3 REINF. SLAB DETAIL
G-49 SCALE: 3/8"=1'-0"



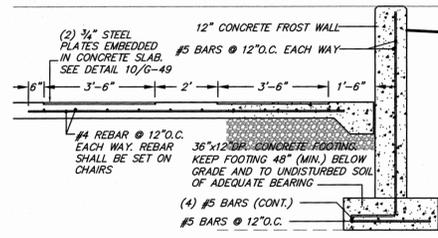
4 CHAMFER DETAIL
G-49 SCALE: 3/4"=1'-0"



5 FROSTWALL DETAIL
G-49 SCALE: 3/8"=1'-0"



7 EMBEDDED STEEL PLATE DETAIL
G-49 SCALE: 3/8"=1'-0"



6 REINF. SLAB DETAIL
G-49 SCALE: 3/8"=1'-0"

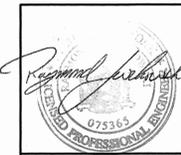
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/28/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	6/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY

ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

GRIT PAD PLANS AND DETAILS

MORRIS ASSOCIATES,
ENGINEERING AND SURVEYING CONSULTANTS, PLLC
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
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SKYLIGHT CONCRETE DEMOLITION SCHEDULE

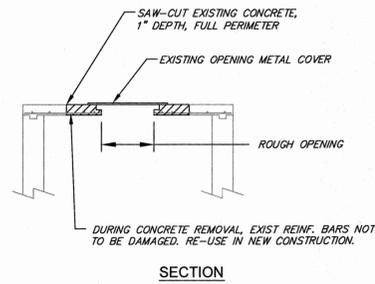
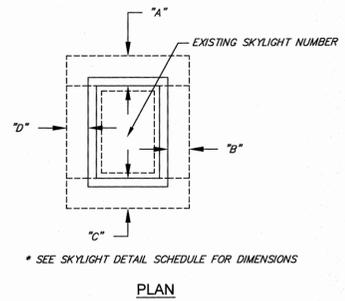
SKYLIGHT NUMBER	METAL COVER / WINDOW	SAW CUT DIMENSIONS				COMMENTS
		"A"	"B"	"C"	"D"	
1	METAL COVER	17	17	17	17	REMOVE TWO THREADED ROD PIPE SUPPORTS
2	METAL COVER	24	17	17	17	REMOVE EMBEDDED CHANNELS
3	METAL COVER	17	17	17	26	REMOVE EMBEDDED CHANNELS
4	METAL COVER	17	19	17	24	REMOVE EMBEDDED CHANNELS
5	METAL COVER	20	19	25	18	REMOVE EMBEDDED CHANNELS
6	WINDOW	8	17	8	17	
7	WINDOW	17	17	17	17	REMOVE VERTICAL CHANNEL ATTACHMENT
8	WINDOW	17	17	17	17	REMOVE EMBEDDED CHANNELS AND THREADED ROD PIPE SUPPORTS
9	METAL COVER	33	17	17	30	REMOVE EMBEDDED CHANNELS
10	WINDOW	19	17	19	17	REMOVE EMBEDDED CHANNELS
11	METAL COVER	18	17	18	17	REMOVE EMBEDDED CHANNELS
12	METAL COVER	19	17	17	17	REMOVE EMBEDDED CHANNELS
13	METAL COVER	17	17	17	17	
14	METAL COVER	17	17	21	17	REMOVE EMBEDDED CHANNELS
15	METAL COVER	17	20	22	17	REMOVE EMBEDDED CHANNELS AND PIPE CLAMP
16	METAL COVER	17	17	17	17	REMOVE EMBEDDED CHANNELS AND SURFACE MOUNTED CHANNELS
17	METAL COVER	30	17	17	38	REMOVE EMBEDDED CHANNELS AND SURFACE MOUNTED CHANNELS
18	METAL COVER	17	22	18	32	REMOVE EMBEDDED CHANNELS AND SURFACE MOUNTED CHANNELS
19	METAL COVER	17	22	17	32	REMOVE EMBEDDED CHANNELS AND SURFACE MOUNTED CHANNELS
20	METAL COVER	19	17	23	17	REMOVE EMBEDDED CHANNELS
21	METAL COVER	17	17	18	17	REMOVE EMBEDDED CHANNELS
22	METAL COVER	27	17	28	17	REMOVE EMBEDDED CHANNELS
23	METAL COVER	29	17	29	17	REMOVE EMBEDDED CHANNELS
24	WINDOW	27	17	24	17	REMOVE EMBEDDED CHANNELS
25	WINDOW	31	17	28	17	REMOVE EMBEDDED CHANNELS
26	WINDOW	27	17	28	20	REMOVE EMBEDDED CHANNELS
27	WINDOW	27	17	28	17	REMOVE EMBEDDED CHANNELS
28	WINDOW	29	17	27	17	REMOVE EMBEDDED CHANNELS
29	WINDOW	28	17	27	17	REMOVE EMBEDDED CHANNELS
30	WINDOW	28	17	28	17	REMOVE EMBEDDED CHANNELS AND SURFACE MOUNTED ANGLE
31	METAL COVER	29	17	29	17	REMOVE EMBEDDED CHANNELS
32	METAL COVER	29	17	28	17	REMOVE EMBEDDED CHANNELS
33	METAL COVER	28	20	18	17	REMOVE EMBEDDED CHANNELS
34	METAL COVER	29	17	30	17	REMOVE EMBEDDED CHANNELS
35	METAL COVER	27	17	27	17	REMOVE EMBEDDED CHANNELS AND FLUSH MOUNTED PIPE HANGER SUPPORT
36	METAL COVER	32	22	28	17	REMOVE EMBEDDED CHANNELS
37	METAL COVER	*17	*17	*17	*17	REMOVE EMBEDDED CHANNELS AND SURFACE MOUNTED CHANNELS AND PIPE SUPPORTS
38	METAL COVER	15	20	20	17	REMOVE EMBEDDED CHANNELS AND SURFACE MOUNTED CHANNELS
39	METAL COVER	26	17	17	17	REMOVE EMBEDDED CHANNELS AND THREADED ROD PIPE SUPPORTS
40	METAL COVER	26	17	17	19	REMOVE EMBEDDED CHANNELS AND THREADED ROD PIPE SUPPORTS
41	WINDOW	26	17	17	17	REMOVE EMBEDDED CHANNELS AND THREADED ROD PIPE SUPPORTS
42	WINDOW	*17	*17	*17	*17	REMOVE EMBEDDED CHANNELS AND SURFACE MOUNTED CHANNELS AND PIPE SUPPORTS
43	WINDOW	17	17	17	17	REMOVE EMBEDDED PIPE SUPPORTS AND SURFACE MOUNTED CHANNELS
44	METAL COVER	24	17	17	**12	REMOVE EMBEDDED PIPE SUPPORTS AND SURFACE MOUNTED CHANNELS
45	METAL COVER	17	17	17	17	REMOVE EMBEDDED PIPE SUPPORTS AND SURFACE MOUNTED CHANNELS
46	WINDOW	17	18	17	17	REMOVE EMBEDDED PIPE SUPPORTS AND SURFACE MOUNTED CHANNELS

ALL DIMENSIONS ARE TAKEN FROM THE ROUGH OPENING. SKYLIGHT "ROUGH OPENING" IS NOT INCLUDED IN OVERALL SIZE OF SAW CUT OPENING. ALL DIMENSIONS ARE IN INCHES.

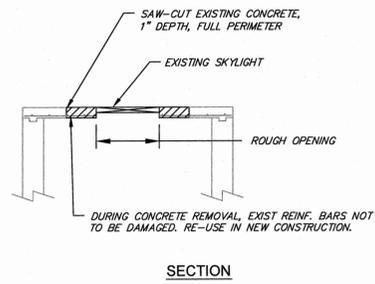
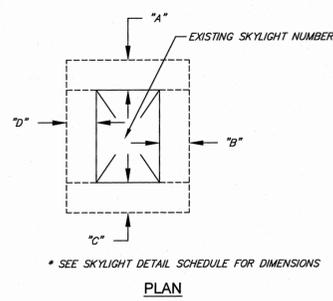
- * - DIMENSIONS ARE ESTIMATES, SKYLIGHTS APPROXIMATELY 20" ABOVE OPERATING FLOOR.
- ** - 12" DIMENSION IS TO AVOID 2 CONCRETE PENETRATIONS OF CONDUIT

NOTES:

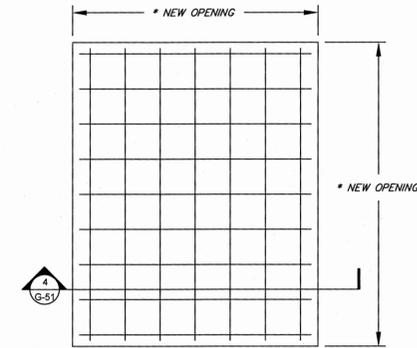
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING GLASS SKYLIGHTS (15 TOTAL).
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING METAL COVERED SKYLIGHT OPENINGS (31 TOTAL).
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING CONCRETE AROUND SKYLIGHT IN ACCORDANCE WITH THE SKYLIGHT CONCRETE REMOVAL SCHEDULE & THE DETAILS ON THIS DRAWING.
- CONTRACTOR SHALL THOROUGHLY EXAMINE EXISTING PIPE TUNNEL FOR INTERFERENCES WITH THE PROPOSED CONCRETE REMOVAL.
- CONTRACTOR SHALL REMOVE ALL EXISTING EMBEDDED CHANNELS WITHIN THE SAW CUT DIMENSIONS IN THE PIPE TUNNEL.
- CONTRACTOR SHALL REMOVE ALL SURFACE MOUNTED CHANNELS AND PIPE SUPPORTS WITHIN THE SAW CUT AREAS.
- CONTRACTOR SHALL NOT DAMAGE EXISTING REINFORCING BARS. REINFORCING BARS ARE TO REMAIN AND BE REUSED DURING INSTALLATION OF NEW CONCRETE SLAB PATCH.
- CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL AFFECTED PIPING, CONDUIT, ETC. WITHIN THE PIPE TUNNEL.
- CONTRACTOR MAY RELOCATE PIPING WITH APPROVAL OF THE ENGINEER. RELOCATED PIPING SHALL COMPLY WITH THE SCHEDULE. PIPE SUPPORTS SHALL BE AS SHOWN ON PIPE HANGERS AND SUPPORT DETAILS.



1 OPENING W/METAL COVER
G-51 SCALE: 1/4"=1'-0"



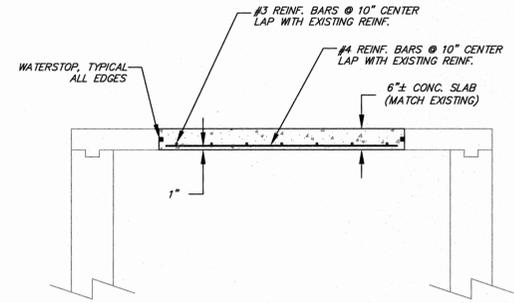
2 OPENING W/SKYLIGHT
G-51 SCALE: 1/4"=1'-0"



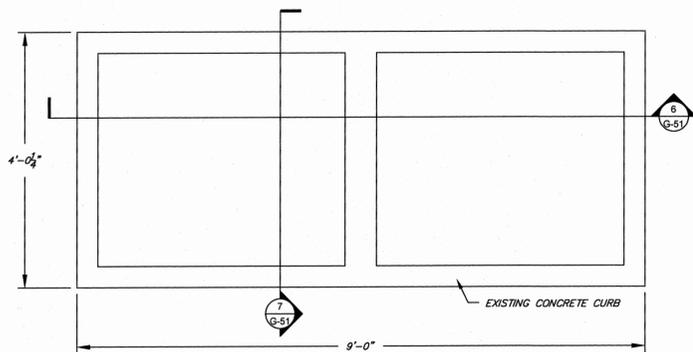
3 SKYLIGHT OPENING PATCH PLAN
G-51 SCALE: 1/2"=1'-0"

NOTES:

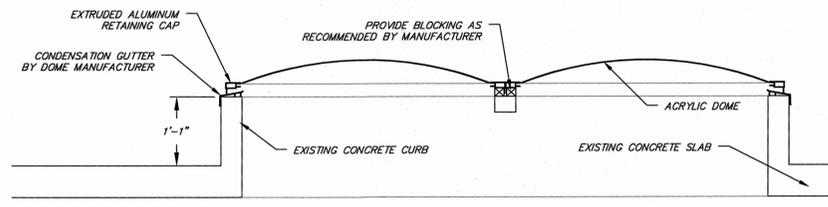
- CONTRACTOR SHALL PROVIDE NEW CONCRETE SLABS IN THE OPENING CREATED FROM THE SKYLIGHT REMOVAL IN ACCORDANCE WITH THE DETAILS ON THIS DRAWING.
- CONTRACTOR SHALL PROVIDE NEW #3 AND #4 REINFORCING BARS IN ACCORDANCE WITH THE DETAILS ON THIS DRAWING.
- ALL CONCRETE SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- ALL REINFORCING BARS SHALL BE DEFORMED BARS WITH A YIELD STRENGTH OF 60,000 PSI.
- ALL CONCRETE IS CAST-IN-PLACE.
- CONTRACTOR SHALL PATCH ALL CONCRETE DAMAGED BY THE REMOVAL OF THE EXISTING SKYLIGHTS THAT OCCURRED OUTSIDE THE SAW CUT AREA'S.
- CONTRACTOR SHALL PATCH ALL CONCRETE DAMAGED BY THE INSTALLATION OF THE TEMPORARY SUPPORTS / BRACING.
- CONTRACTOR SHALL PATCH OR REPLACE ALL DAMAGED TUBING & PIPING, AND TUBING/PIPING INSULATION THAT OCCURRED DURING THE CONCRETE REMOVAL ON THE SKYLIGHTS.
- CONTRACTOR SHALL REFER TO PIPE HANGERS AND PIPE SUPPORT DETAILS FOR ALL PIPE HANGER AND SUPPORT INSTALLATION.



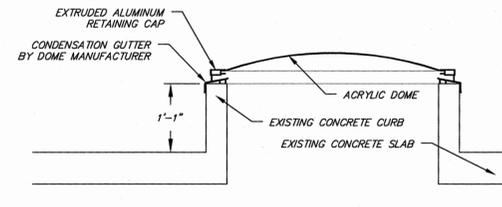
4 SKYLIGHT OPENING PATCH SECTION
G-51 SCALE: 1/2"=1'-0"



5 SCUTTLE COVER PATCH PLAN
G-51 SCALE: 3/4"=1'-0"



6 SCUTTLE COVER PATCH SECTION
G-51 SCALE: 3/4"=1'-0"



7 SCUTTLE COVER PATCH SECTION
G-51 SCALE: 3/4"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
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2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA

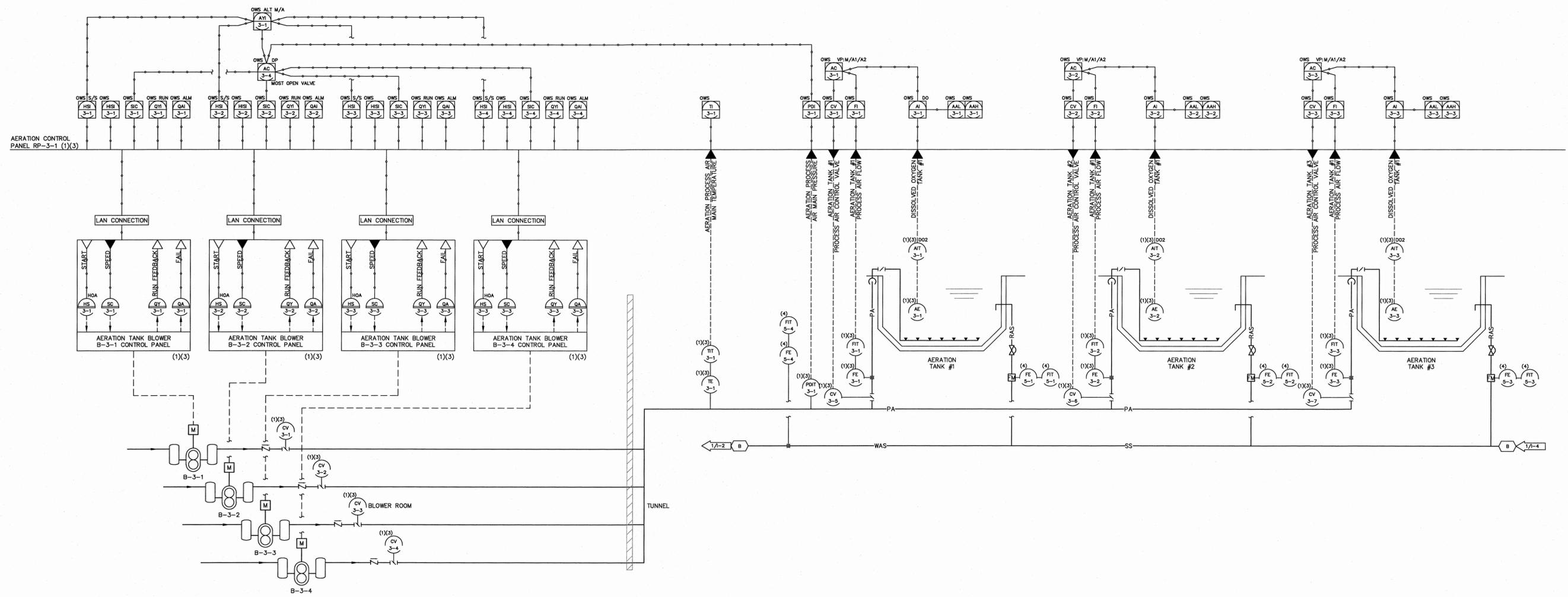
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

SKYLIGHT REMOVAL/MISC. WORK SCHEDULE AND DETAILS

MORRIS ASSOCIATES, ENGINEERING AND SURVEYING CONSULTANTS, PLLC
9 Elk Lane, Poughkeepsie, New York 12601
Phone No. (845) 454-3411 Fax No. (845) 473-1962
44 Green Street, Hudson, New York 12534
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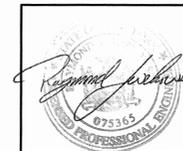
DATE: 01/15/14 SCALE: AS SHOWN
DESIGNED BY: MA - RJJ
DRAWN BY: MA
CHECKED BY: MA - RJJ/JFL
FILE No.: 60401.30 DRAWING No.: G-51



1 PACKAGED AERATION SYSTEM
 1-3 SCALE: NONE

- (1) - PANELS AND DEVICES PROVIDED BY GENERAL CONTRACTOR, G.C.
- (2) - PANELS AND DEVICES PROVIDED BY ELECTRICAL CONTRACTOR, E.C.
- (3) - PANELS AND DEVICES PROVIDED AS PART OF A PACKAGED SYSTEM.
- (4) - EXISTING PANELS AND DEVICES.

5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/29/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PROCESS AND INSTRUMENTATION AERATION PROCESS

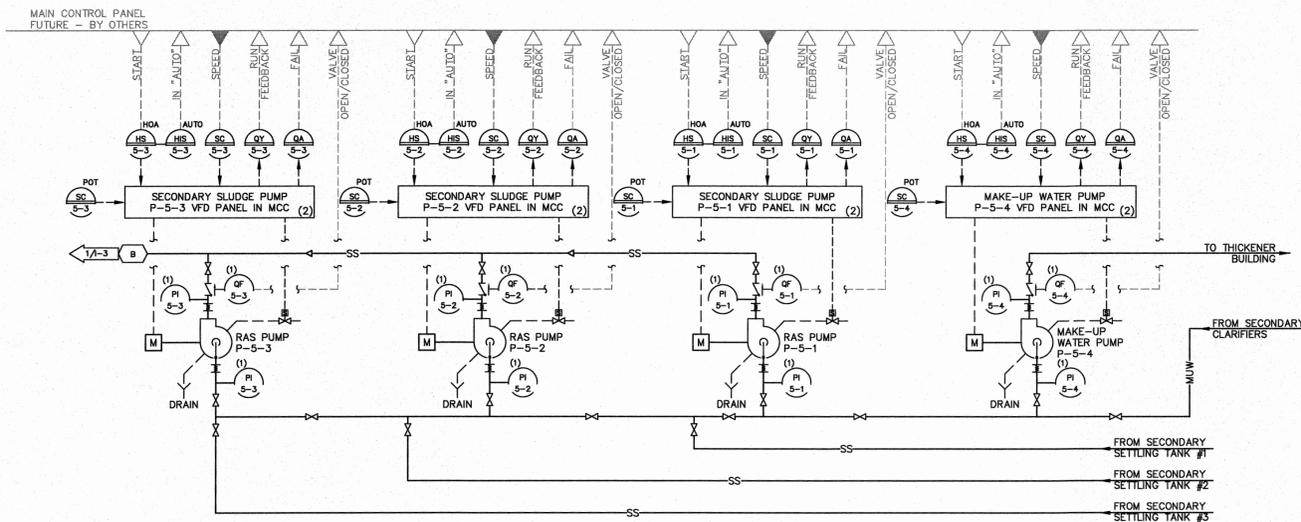
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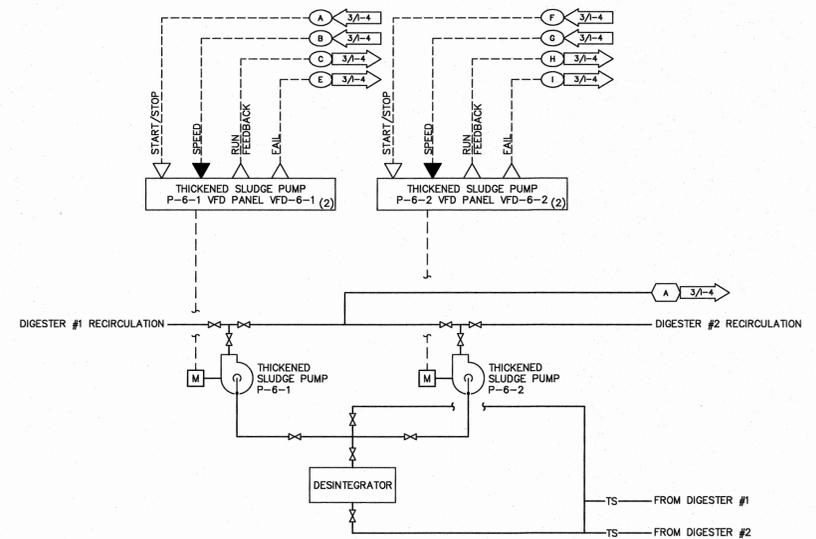
9 Elk Lane, Poughkeepsie, New York 12601
 Phone No. (845) 454-3411 Fax No. (518) 828-3963

64 Green Street, Hudson, New York 12534
 Phone No. (518) 828-2300 Fax No. (518) 828-3963

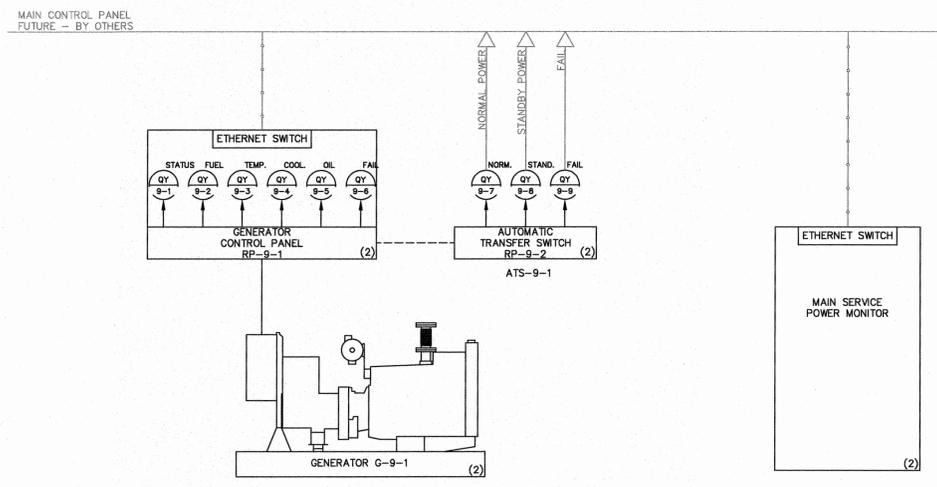
DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	I-3
		CHECKED BY		
		MA - RJJ / JFL		



1 SECONDARY SLUDGE PUMPS
1-5 SCALE: NONE



2 THICKENED SLUDGE PUMPS
1-5 SCALE: NONE



3 GENERATOR BACK-UP POWER
1-5 SCALE: NONE

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ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PROCESS AND INSTRUMENTATION SLUDGE PUMPING AND GENERATOR

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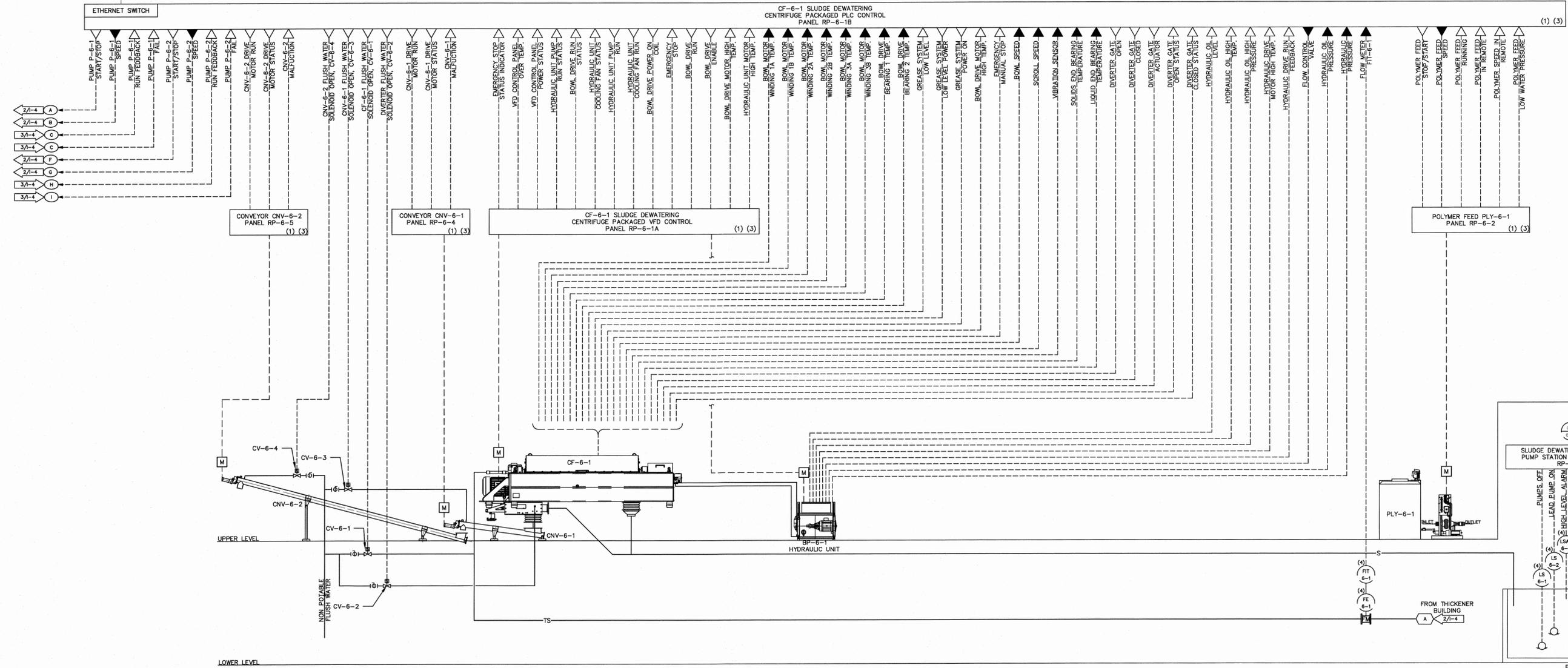
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	MA - RJJ	60401.30	I-4
		DRAWN BY: MA		
		CHECKED BY: MA - RJJ/JEL		

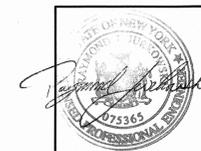
MAIN CONTROL PANEL
FUTURE - BY OTHERS



1 CENTRIFUGAL SLUDGE DEWATERING
1-5 SCALE: NONE

- (1) - PANELS AND DEVICES PROVIDED BY GENERAL CONTRACTOR, G.C.
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REV. No.	DESCRIPTION	DATE	BY
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ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PROCESS AND INSTRUMENTATION SLUDGE PROCESSING

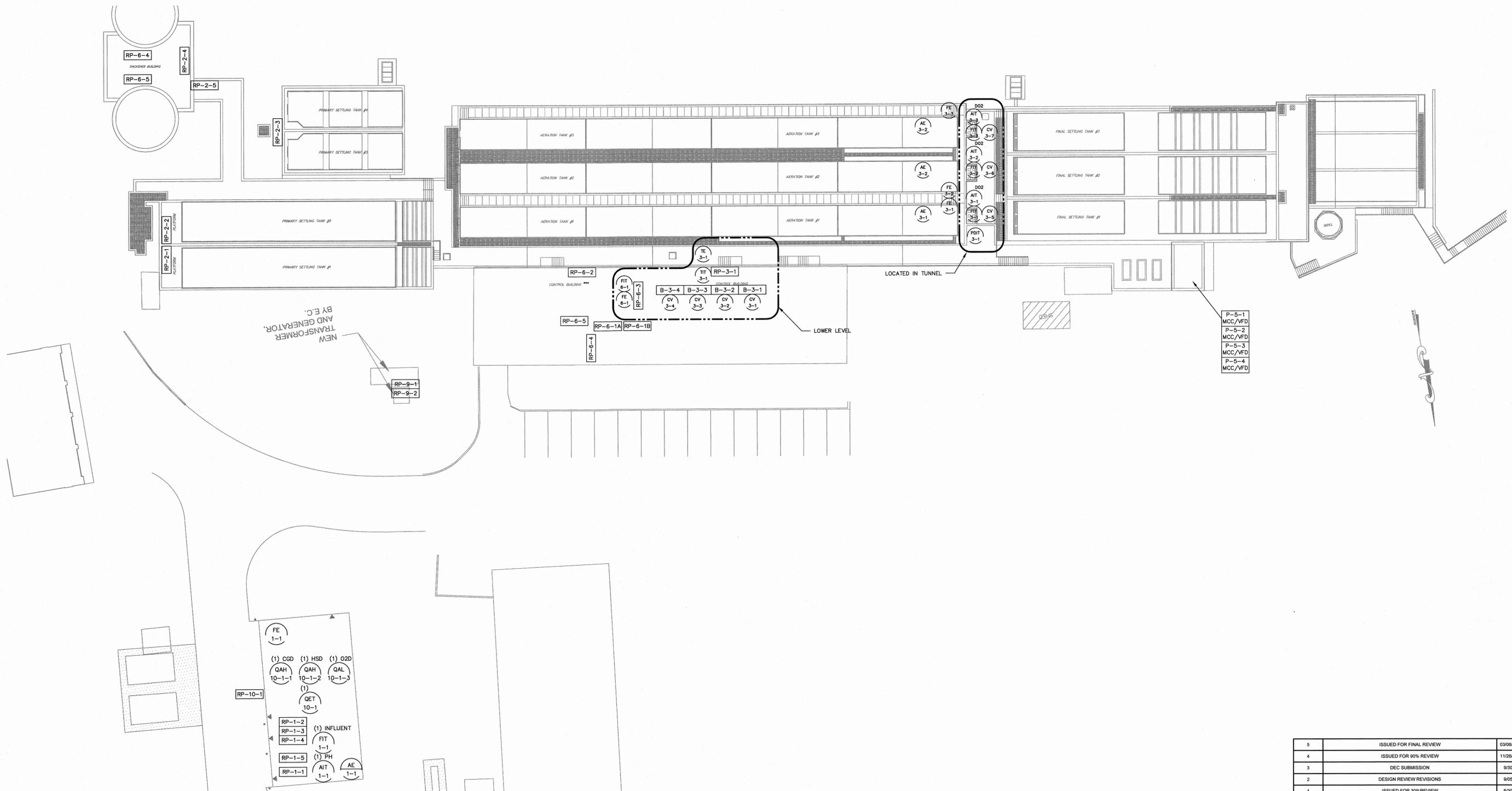
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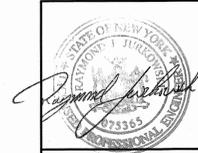
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ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PROCESS AND INSTRUMENTATION PANEL AND DEVICE LOCATIONS

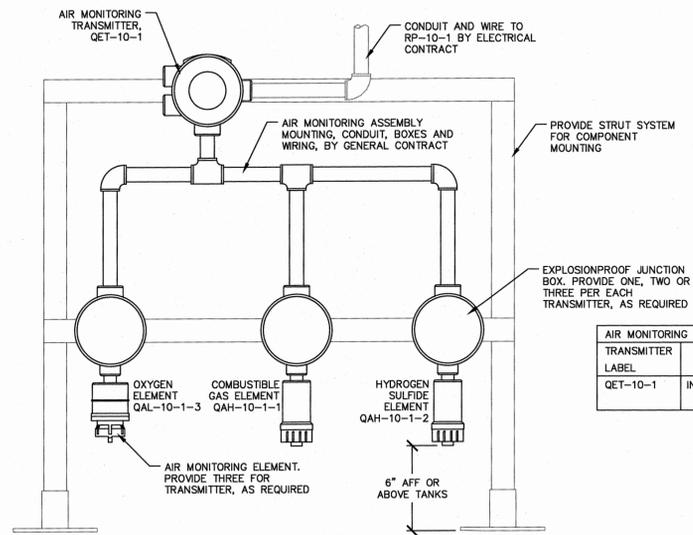
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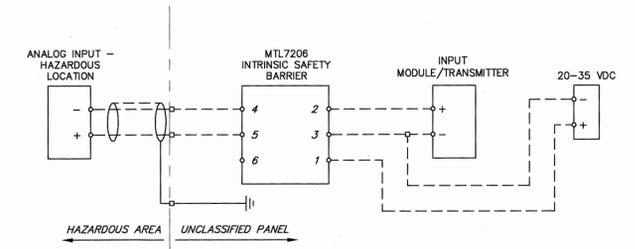
64 Green Street
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Fax No. (518) 828-3963

DATE 01/15/14	SCALE AS SHOWN	DRAWN BY MA	FILE No. 60401.30	DRAWING No. I-6
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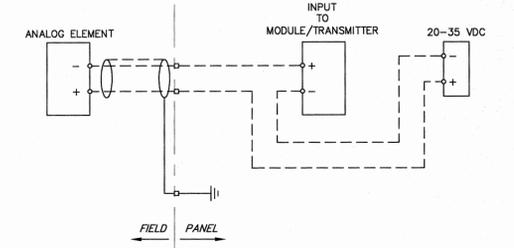
AIR MONITORING TRANSMITTER SCHEDULE				
TRANSMITTER LABEL	LOCATION	ELEMENTS		
		COMBUSTIBLE GAS	HYDROGEN SULFIDE	OXYGEN
QET-10-1	INSIDE HEADWORKS AREA	X	X	X

1 AIR MONITORING SENSORS/TRANSMITTERS RACK
1-6



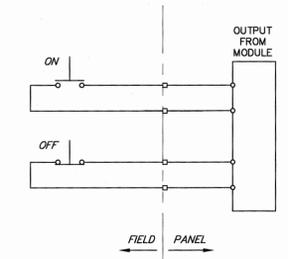
TYPICAL 2-WIRE ANALOG ELEMENT/TRANSMITTER INTRINSICALLY SAFE

3
1-6



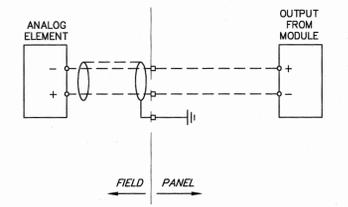
TYPICAL 2-WIRE ANALOG TRANSMITTER

4
1-6



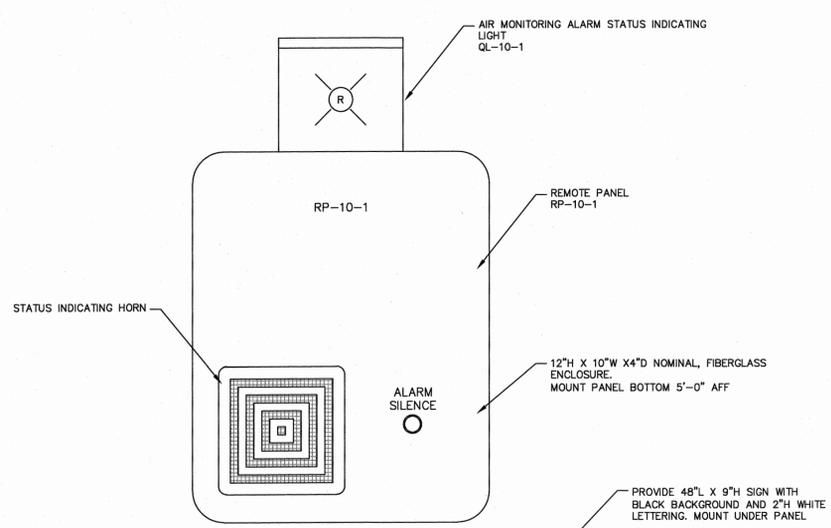
5 REMOTE PUSHBUTTON STATION

5
1-6



TYPICAL 2-WIRE ANALOG OUTPUT

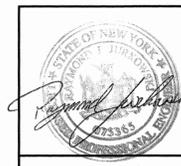
6
1-6



RED - GAS MONITORING ALARM

2 AIR MONITORING ANNUNCIATORS
1-6

REV. No.	DESCRIPTION	DATE	BY
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ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PROCESS AND INSTRUMENTATION DETAILS

MORRIS ASSOCIATES,
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SYMBOL	DESCRIPTION
A	FIXTURE AS INDICATED IN FIXTURE SCHEDULE "A"-FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE)
WP	WALL MOUNT EXTERIOR FIXTURE FIXTURE NOTATIONS SAME AS ABOVE.
EM	EMERGENCY LIGHTING BATTERY UNIT WITH HEADS EM = FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE)
EX	EXIT SIGN SEE LIGHTING FIXTURE SCHEDULE WHEN USED, ARROW INDICATES DIRECTION OF EGRESS
CB-HV.1,2	HOMERUN, CIRCUITS 1 AND 3 RUN TO PANEL CB-HV
55	WIRE TAG-### CORRESPONDS TO ### IN CONDUIT AND WIRE SCHEDULE SHEET E-10.
OR	PANELBOARD [**]-NAME AS INDICATED
J	JUNCTION BOX
P	PULL BOX
	DISTRIBUTION CLASS WOOD POLE FOR OVERHEAD ELECTRIC USE
	SINGLE POLE SWITCH- "O" INDICATES CONTROL OF LIGHTS "O" "M" INDICATES MOTOR HORSEPOWER RATED.
	THREE WAY SWITCH "O" INDICATES CONTROL OF LIGHTS "O"
	DUPLEX RECEPTACLE, 20A, 120V, 3W, SINGLE PHASE * C - MOUNTED ABOVE COUNTER TOP GF - GROUND FAULT INTERRUPTER TYPE WP - WEATHERPROOF 3 - BRANCH CIRCUIT NUMBER T - TRANSIENT VOLTAGE SURGE SUPPRESSOR IC - ISOLATED GROUND
	SIMPLEX RECEPTACLE, 120V, 20A, 2P, 3W, NOTATIONS SAME AS ABOVE FOR DUPLEX RECEPTACLE * TL - LOCKING TYPE WP - WEATHERPROOF
	EXOTHERMIC WELD CONNECTION
AAA-#	EQUIPMENT TAG TAG NO. AS INDICATED AAA - INDICATES TYPE OF EQUIPMENT. # - PROCESS AS INDICATED ON P. & ID # - EQUIPMENT #
	INDICATED EQUIPMENT AND MATERIALS TO BE DEMOLISHED
CLASS 1, DIV. 1	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND INSTALLATION WITH IN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS CONFORM TO N.E.C. REQUIREMENTS FOR THE HAZARDOUS AREA CLASSIFICATION SHOWN
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR

ONE LINE OR CONTROL DIA.	PLAN	DESCRIPTION
	CB	LOW VOLTAGE CIRCUIT BREAKER, THREE POLE UNLESS NOTED OTHERWISE
	⊗	COMBINATION MOTOR CIRCUIT PROTECTOR AND MAGNETIC MOTOR STARTER, FULL VOLTAGE NON-REVERSING UNLESS NOTED OTHERWISE: * FVR - FULL VOLTAGE REVERSING * FNR - REDUCED VOLTAGE NON-REVERSING 2S1W - TWO SPEED, ONE WINDING 2S2W - TWO SPEED, TWO WINDING RVAT-REDUCED VOLTAGE AUTO TRANSFORMER
		NON-FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE * AMPERE RATING NOTED IF OTHER THAN 30A
		FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE: * AMPERE RATING AND FUSE SIZE AS NOTED
		MANUAL MOTOR STARTER WITH THERMAL OVERLOAD HEATER: P - PILOT LIGHT 2 - 2 POLES
	T	TRANSFORMER, RATING AND CONNECTIONS AS NOTED.
		CURRENT TRANSFORMER * A TO 5 A - PRIMARY AMPERES
V-120		POTENTIAL TRANSFORMER * - QUANTITY V - PRIMARY VOLTAGE
	LA	LIGHTNING ARRESTER
		SPECIAL CAPACITOR: SC - SURGE CAPACITOR PF - POWER FACTOR CORRECTION CAPACITOR
		GROUND OR GROUND ROD
30A		FUSE, AMPERE RATING AS NOTED
		MOTOR, NUMERAL INDICATES HORSEPOWER
		GENERATOR, RATINGS AND CONNECTIONS AS NOTED
		TACHOMETER GENERATOR
		VOLTMETER WITH SWITCH, 3 PHASE * RANGE AS NOTED
		AMMETER WITH SWITCH, 3 PHASE * RANGE AS NOTED
		UNIT HEATER - ELECTRIC HEATING COIL AND FAN # - RATING
		CONDUCTORS OR CONDUITS CROSSING PATHS BUT NOT CONNECTED
		CONDUCTORS ELECTRICALLY CONNECTED
		INDICATES LIMITS OF EQUIPMENT OR WIRING ENCLOSURE
		PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN, NORMALLY CLOSED.
		PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN NORMALLY OPEN
	ES	EMERGENCY STOP PUSHBUTTON WITH RED MUSHROOM HEAD OPERATOR, MAINTAINED CONTACT, PUSH-TO-STOP PULL TO RESET.
	PBL	START-STOP PUSHBUTTON CONTROL STATION, (MOMENTARY CONTACT) WITH LOCKOUT DEVICE ON STOP
	PBM	START-STOP PUSHBUTTON CONTROL STATION, MAINTAINED CONTACT WITH LOCKOUT DEVICE ON STOP
	LR	TWO POSITION SELECTOR SWITCH, MAINTAINED CONTACT POSITION 1-CONTACT 2-CONTACT A X O X B O O X * NAMEPLATE (A/B) LR - LOCAL/REMOTE
	HCA LOR RSL	THREE POSITION SELECTOR SWITCH, MAINTAINED CONTACT POSITION 1-CONTACT 2-CONTACT 3-CONTACT A X O - B O O - C O X - * NAMEPLATE (A/B/C) HCA - HAND/OFF/AUTO LOR - LOCAL/OFF/REMOTE RSL - RAISE/STOP/LOWER HOR - HAND/OFF/REMOTE TOA - TEST/OFF/AUTO
100 A ATS-1		AUTOMATIC OR MANUAL TRANSFER SWITCH NO. 1 (ATS-1) "N" INDICATES NORMAL OR PREFERRED SOURCE "S" INDICATES STAND BY OR ALTERNATE SOURCE 100 A INDICATES CONTINUOUS CURRENT RATING

ONE LINE OR CONTROL DIA.	PLAN	DESCRIPTION
	LS OR	LIQUID LEVEL (FLOAT) SWITCH: NORMALLY OPEN, CLOSSES ON RISING LEVEL NORMALLY OPEN, CLOSSES ON RISING LEVEL
	PS OR	PRESSURE OR VACUUM SWITCH: NORMALLY OPEN, CLOSSES ON RISING PRESSURE NORMALLY OPEN, CLOSSES ON DROPPING PRESSURE NORMALLY CLOSED, OPENS ON RISING PRESSURE NORMALLY CLOSED, OPENS ON DROPPING PRESSURE
	TS OR	TEMPERATURE ACTUATED SWITCH (THERMOSTAT): NORMALLY OPEN, CLOSSES ON RISING PRESSURE NORMALLY OPEN, CLOSSES ON DROPPING PRESSURE NORMALLY CLOSED, OPENS ON RISING PRESSURE NORMALLY CLOSED, OPENS ON DROPPING PRESSURE
	FS OR	FLOW SWITCH (AIR, WATER, ETC.): NORMALLY OPEN, CLOSSES ON INCREASED FLOW NORMALLY CLOSED, OPENS ON INCREASED FLOW
	ZS OR	POSITION (LIMIT) SWITCH: NORMALLY OPEN - HELD CLOSED NORMALLY OPEN - HELD OPEN NORMALLY CLOSED - HELD OPEN NORMALLY CLOSED - HELD CLOSED
	SV	SOLENOID OPERATED VALVE
	HTR	STRIP HEATER OR HEATING ELEMENT
	SCV	SURGE CONTROL VALVE
		PILOT LIGHT, COLOR AS NOTED * R - RED * G - GREEN * A - AMBER * B - BLUE * W - WHITE
		PILOT LIGHT, PUSH TO TEST TYPE * COLOR AS NOTED ABOVE
		RELAY COIL, NUMBER AS INDICATED
		MOTOR STARTER COIL, NUMBER AS INDICATED
		CONTACT, NORMALLY OPEN (NO)
		CONTACT, NORMALLY CLOSED (NC)
		OVERLOAD RELAY HEATER (OL)
		TIME DELAY RELAY, RANGE AS NOTED SET POINT AS NOTED TDE-TIME DELAY AFTER ENERGIZATION-ON DELAY TDO-TIME DELAY AFTER DE-ENERGIZATION-OFF DELAY NOTC - NORMALLY OPEN, TIMED CLOSE WHEN ENERGIZED NCTO - NORMALLY CLOSED, TIMED OPEN WHEN ENERGIZED NOTO - NORMALLY OPEN, TIMED OPEN WHEN DE-ENERGIZED NCTC - NORMALLY CLOSED, TIMED CLOSE WHEN DE-ENERGIZED

ABBREVIATIONS

AC	AIR CONDITIONER.
AF	ABOVE FINISHED FLOOR.
CB	CIRCUIT BREAKER.
CKT	CIRCUIT.
CP	CONTROL PANEL.
EC	EMPTY CONDUIT.
EQ	EQUALIZATION.
ERV	ENERGY RECOVER VENTILATOR.
EP	EXPLOSION PROOF.
EQ	EQUALIZATION.
FS	FUSED SWITCH.
GF	GROUND FAULT CIRCUIT INTERRUPTER.
GND, G	GROUND.
HP	HORSEPOWER.
HRV	HEAT RECOVERY VENTILATOR.
JB	JUNCTION BOX.
LVL	LEVEL SENSOR.
MCC	MOTOR CONTROL CENTER.
MCP	MOTOR CIRCUIT PROTECTOR.
MH	MOUNTING HEIGHT, MANHOLE.
NEC	NATIONAL ELECTRICAL CODE.
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
NFS	NON-FUSED SWITCH.
NIC	NOT IN CONTRACT.
PBL	PUSH BUTTON START STOP SWITCH WITH LOCKOUT
RP	REMOTE PANEL.
RS	REMOTE STARTER.
S/N	SOLID NEUTRAL.
UG	UNDERGROUND.
UO	UNLESS OTHERWISE NOTED.
WP	WEATHER PROOF.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	VOLT	MOUNTING
A	CLASS 1 DIV 1 INDUSTRIAL STRIP	HUBBELL	HLHFL-50L-4-2L-U50-86320	277	SURFACE
B	4" INDUSTRIAL STRIP	HUBBELL	LXEM4-40HL-RFA-EU	277	SURFACE
EM	CLASS 1 DIV 1 EMERGENCY PACK	DUAL-LIGHT	HLEBS-23DH-P-A	277	WALL
EX	LED EXIT	DUAL-LIGHT	LTU-RW-1	277	WALL
EX1	CLASS 1 DIV 1 LED EXIT	DUAL-LIGHT	XPE-WSRE-1	277	WALL
WP	EXTERIOR WALL PACK	HUBBELL	PGM3-30LU-5K-BZ-PC-BBU277	277	WALL

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**ARLINGTON WASTEWATER
TREATMENT PLANT**
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

ELECTRICAL LEGEND, SYMBOLS AND ABBREVIATIONS

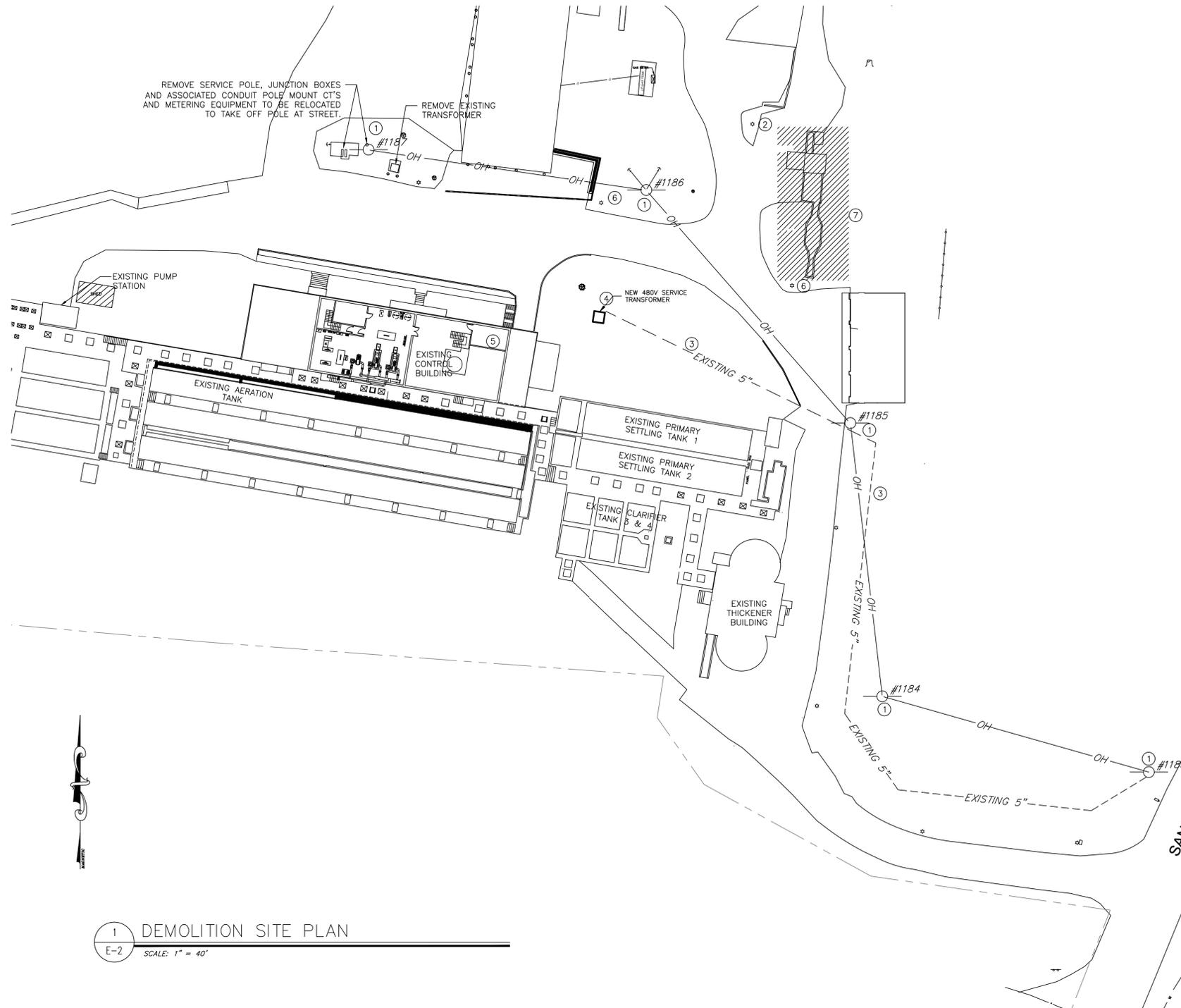
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planners electrical
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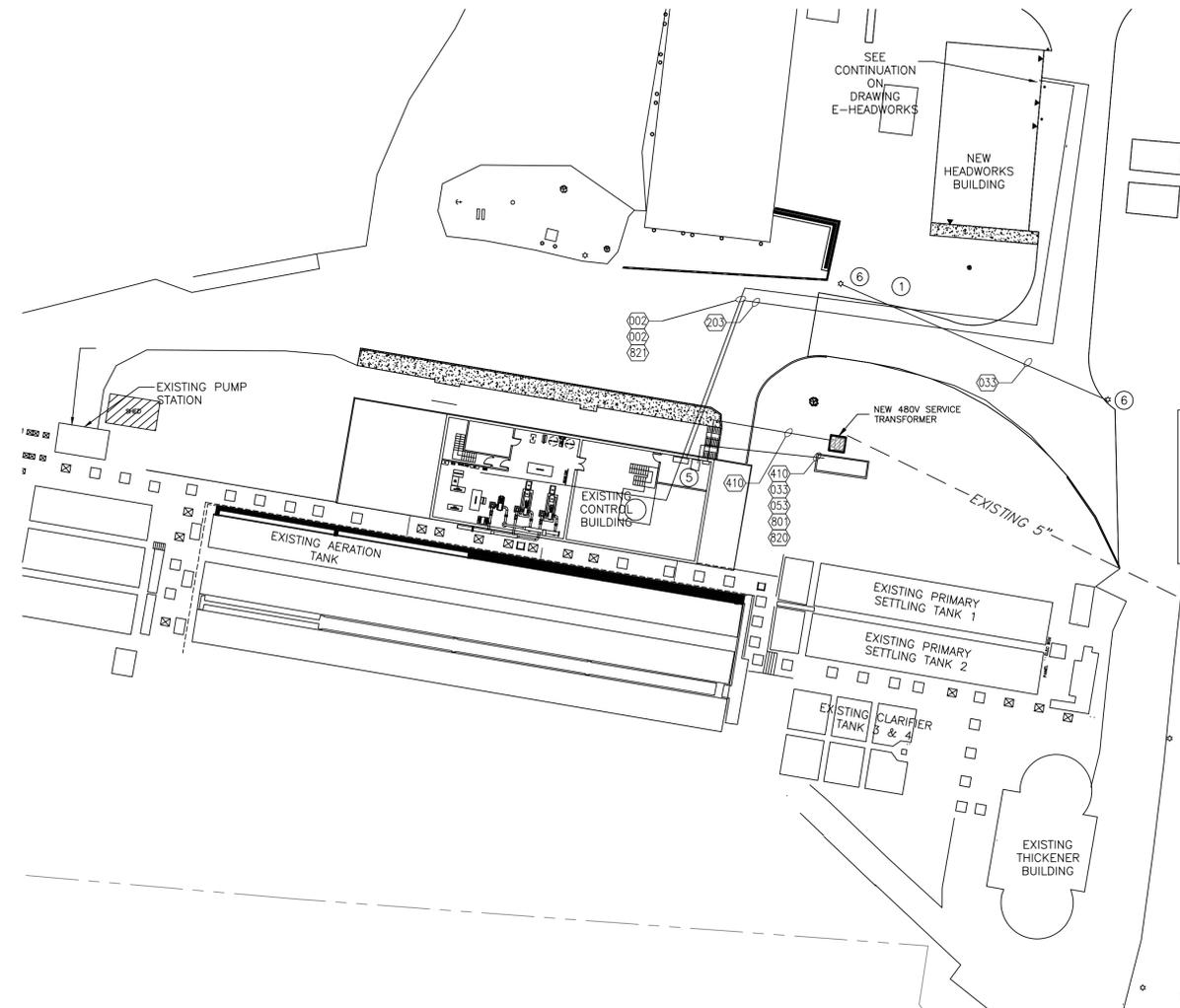
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1 DEMOLITION SITE PLAN
E-2 SCALE: 1" = 40'

DRAWING NOTES: #

- EXISTING POLE LINE AND WIRING TO BE REMOVED. AFTER THE NEW SERVICE IS ENERGIZED REMOVE ALL WIRING, POLES AND ASSOCIATED GUYS AND CABLES.
- EXISTING LIGHT POLE TO BE REMOVED. CONTRACTOR TO DISCONNECT EXISTING CONDUIT AND WIRE. CONTRACTOR TO INSTALL NEW CONDUIT AND WIRE TO KEEP REMAINING SITE POLES ENERGIZED.
- EXISTING 5" CONDUIT TO BE USED FOR NEW PRIMARY SERVICE TO NEW TRANSFORMER LOCATION.
- EXISTING TRANSFORMER VAULT. CONTRACTOR IS RESPONSIBLE TO COORDINATE INSTALLATION OF NEW SERVICE TRANSFORMER WITH CENTRAL HUDSON.
- NEW ELECTRIC ROOM LOCATED IN THE LOWER LEVEL OF THE CONTROL BUILDING.
- CONTRACTOR TO REPLACE CONDUIT AND WIRE TO EXISTING LIGHT POLE. CONFIRM EXACT ROUTING IN FIELD.
- EXISTING HEADWORKS AREA TO BE DEMOLISHED. DISCONNECT ELECTRICAL EQUIPMENT AND REMOVE ALL CONDUIT AND WIRE. MARK ALL UNUSED BREAKERS AS SPARE.
- LOCATION OF NEW PS-MCC CONTRACTOR TO RUN NEW CONDUITS AND WIRE THROUGH EXISTING TUNNEL TO CONTROL BUILDINGS NEW MDP. SEE SHEET E-8.



2 NEW ELECTRICAL SITE PLAN
E-2 SCALE: 1" = 40'

EXISTING CONDITION DESIGNATION

DEMOLITION NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY ALL ELECTRICAL ISOLATION (LOCK & TAG) AND EQUIPMENT SHOWN FOR SAFE DEMOLITION AND REMOVAL.
- WHENEVER THE CONTRACTOR IS REQUIRED TO DEMOLISH A PANELBOARD, MOTOR CONTROL CENTER, OR ANY POWER SOURCE SUPPLYING POWER TO MULTIPLE DEVICES OR LOCATIONS, THE CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS. ANY CIRCUITS ROUTED TO LOCATIONS OUTSIDE THE DEMOLITION AREA SHALL BE RELOCATED AS REQUIRED. THE OWNER SHALL BE NOTIFIED PRIOR TO THE CIRCUIT RELOCATION.
- THE CONTRACTOR SHALL DISCONNECT ALL ELECTRICAL DEVICES/EQUIPMENT (PANELS, TRANSFORMERS, BUSDUCT, RECEPTACLES, SWITCHES, LIGHTS, MOTORS, ETC.) LIGHTING AND POWER FEEDERS ASSOCIATED WITHIN THE AREA OF WORK AS SHOWN (INCLUDING BUILDING EXTERIOR AND ROOF-TOP EQUIPMENT) TO ALLOW FOR SAFE AND COMPLETE REMOVAL OF ALL EQUIPMENT BEING DEMOLISHED, BACK TO SOURCE ALONG WITH ALL ASSOCIATED CONDUITS, CONDUCTORS, ETC. UNLESS OTHERWISE NOTED.

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ARLINGTON WASTEWATER TREATMENT PLANT
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

ELECTRICAL SITE DRAWING

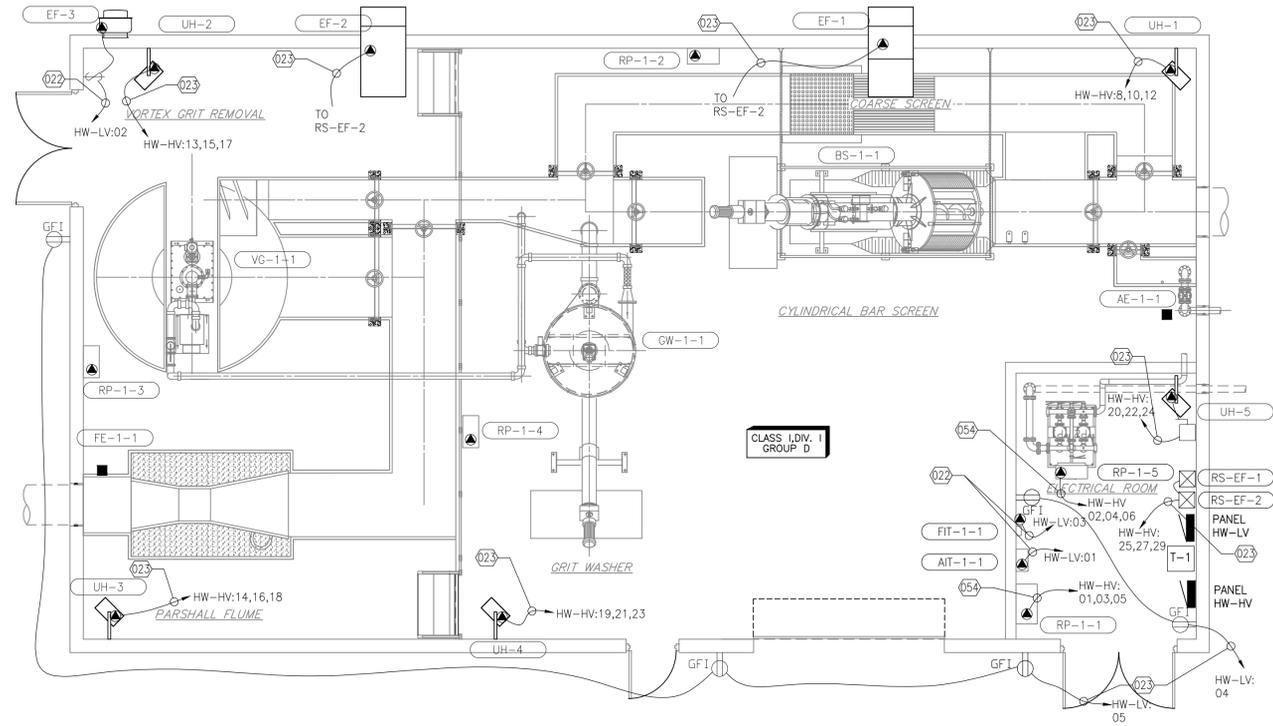
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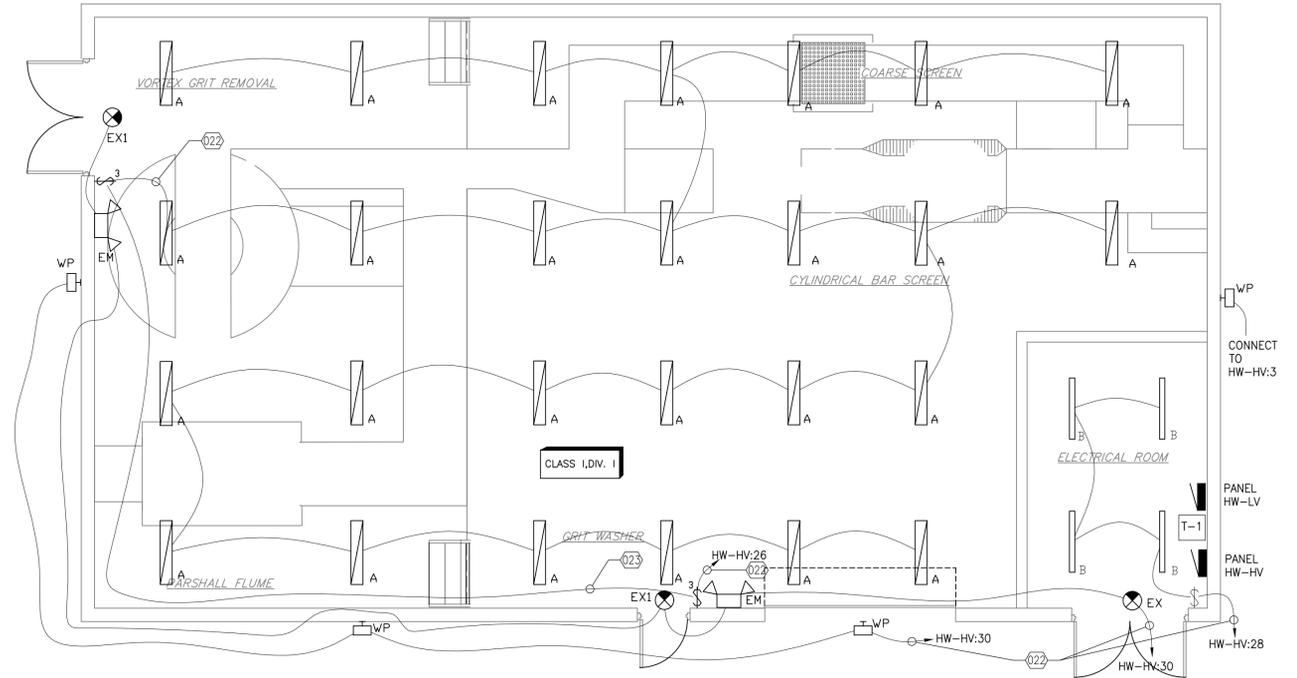
consultants mechanical planners electrical designers
2600 South Rd #44-260 Poughkeepsie, NY 12601 845-471-6036

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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	KMW	WE14209	E-2



1 HEADWORKS ELECTRICAL POWER PLAN
E-3 SCALE: 3/16"=1'-0"



2 HEADWORKS ELECTRICAL POWER PLAN
E-3 SCALE: 3/16"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR 100% REVIEW	03/06/15	KMW
4	ISSUED FOR 90% REVIEW	11/30/2014	KMW
3	DEC SUBMISSION	9/30/14	KMW
1	ISSUED FOR 30% REVIEW	6/30/14	MA



ARLINGTON WASTEWATER TREATMENT PLANT
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

ELECTRICAL PLAN HEADWORKS BUILDING

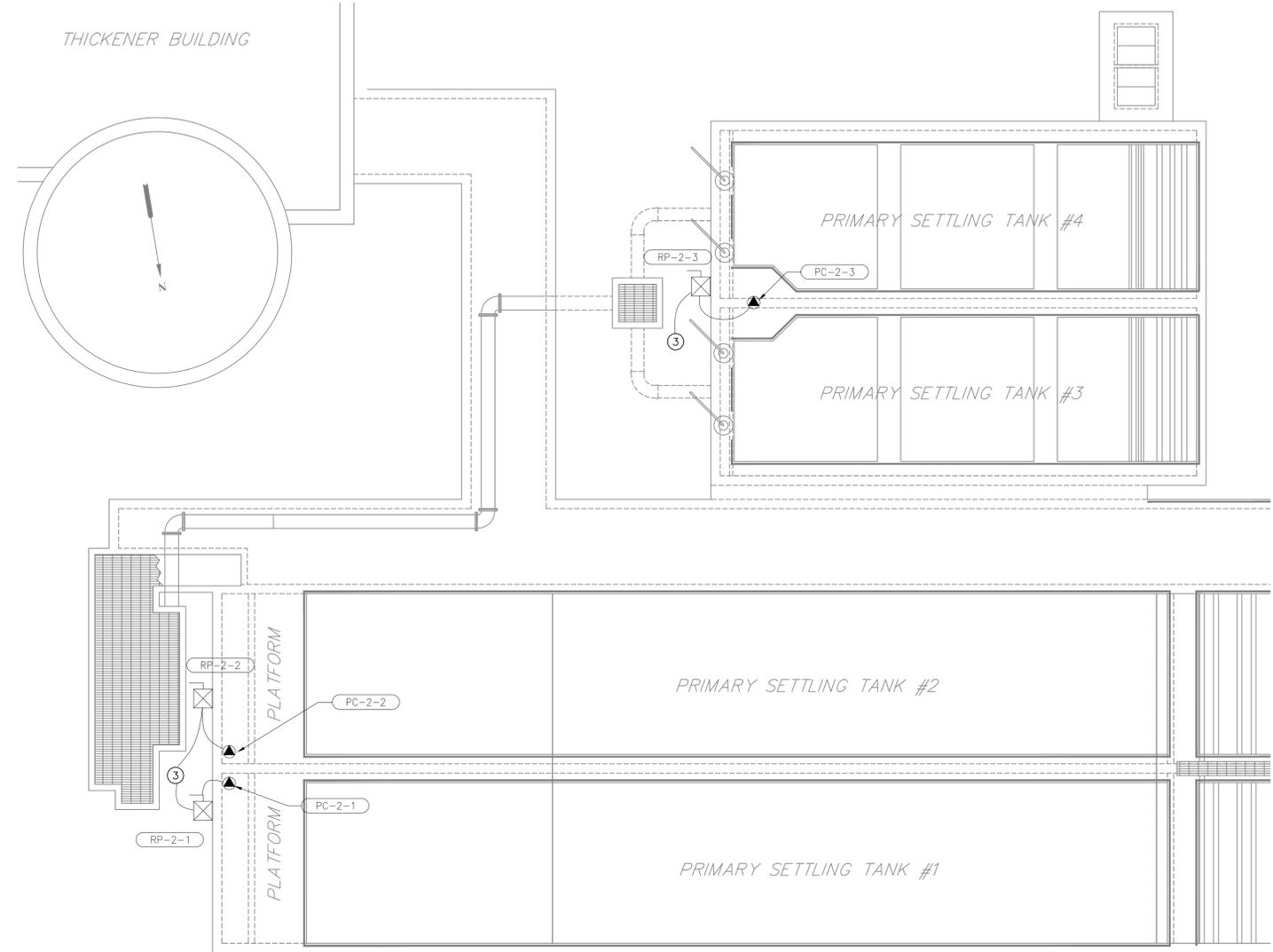
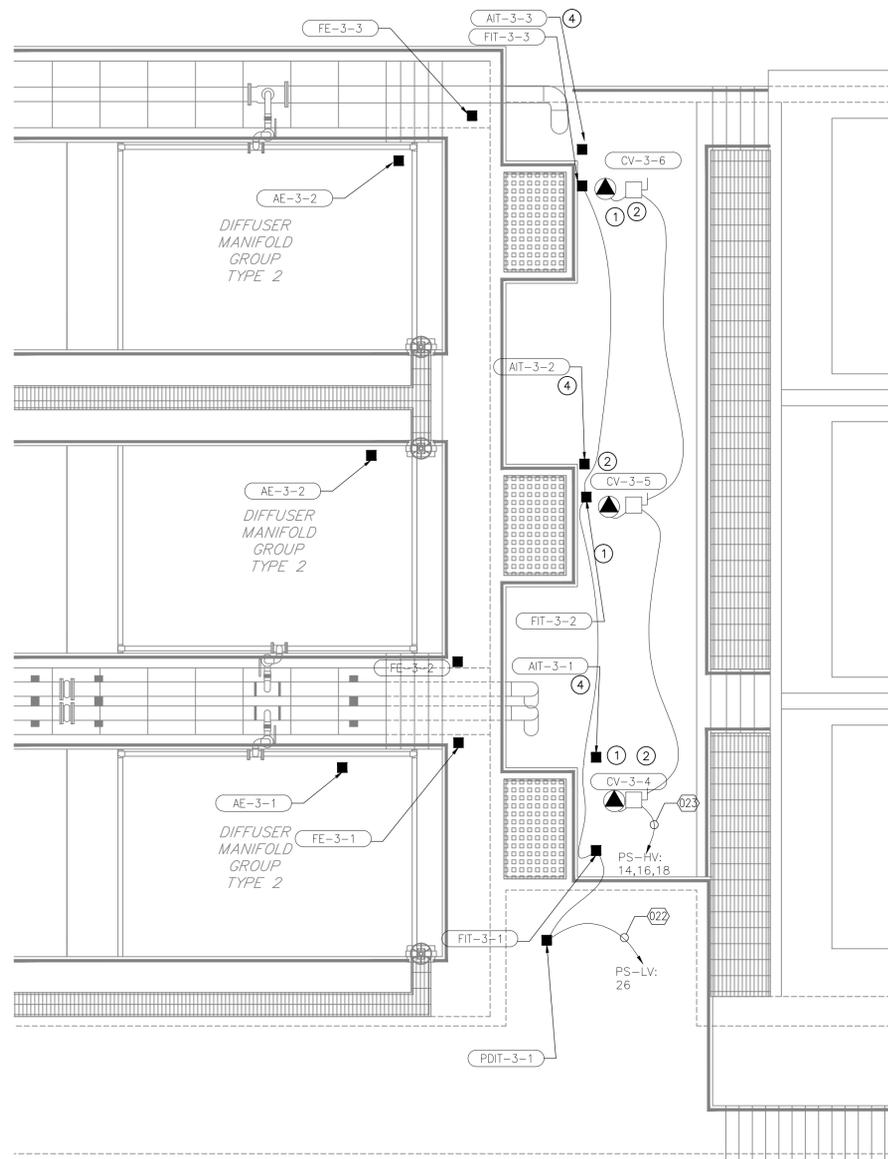


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DATE 01/15/14	SCALE AS SHOWN	DESIGNED BY KMW	CHECKED BY DW	FILE No. WE14209	DRAWING No. E-3
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2 PRIMARY SETTLING TANKS
 E-4 SCALE: 1/8"=1'-0"

1 AERATION TANKS
 E-4 SCALE: 3/16"=1'-0"

DRAWING NOTES: #

1. DISCONNECT POWER TO EXISTING TRANSMITTERS AND SENSORS. REMOVE ALL UNUSED CONDUIT AND WIRE.
2. TRANSMITTER AND AND CONTROL VALVE LOCATED IN TUNNEL SPACE BELOW.
3. DISCONNECT EXISTING MOTOR AND REMOVE EXISTING COMBINATION STARTER. PROVIDE NEW COMBINATION STARTER AND CONDUIT AND WIRE TO NEW EQUIPMENT. REUSE EXISTING FEEDER FROM MMC-DI.
4. EXISTING AIT TRANSMITTER TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING AND WIRE NEW DEVICES EXTEND CONDUIT AND WIRE TO NEW DEVICE LOCATION.

EXISTING CONDITION DESIGNATION

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL ELECTRICAL ISOLATION (LOCK & TAG) AND EQUIPMENT SHOWN FOR SAFE DEMOLITION AND REMOVAL.
2. WHENEVER THE CONTRACTOR IS REQUIRED TO DEMOLISH A PANELBOARD, MOTOR CONTROL CENTER, OR ANY POWER SOURCE SUPPLYING POWER TO MULTIPLE DEVICES OR LOCATIONS, THE CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS. ANY CIRCUITS ROUTED TO LOCATIONS OUTSIDE THE DEMOLITION AREA SHALL BE RELOCATED AS REQUIRED. THE OWNER SHALL BE NOTIFIED PRIOR TO THE CIRCUIT RELOCATION.
3. THE CONTRACTOR SHALL DISCONNECT ALL ELECTRICAL DEVICES/EQUIPMENT (PANELS, TRANSFORMERS, BUSDUCT, RECEPTACLES, SWITCHES, LIGHTS, MOTORS, ETC.) LIGHTING AND POWER FEEDERS ASSOCIATED WITHIN THE AREA OF WORK AS SHOWN (INCLUDING BUILDING EXTERIOR AND ROOF-TOP EQUIPMENT), TO ALLOW FOR SAFE AND COMPLETE REMOVAL OF ALL EQUIPMENT BEING DEMOLISHED, BACK TO SOURCE ALONG WITH ALL ASSOCIATED CONDUITS, CONDUCTORS, ETC. UNLESS OTHERWISE NOTED.

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1	ISSUED FOR 30% REVIEW	6/30/14	MA



ARLINGTON WASTEWATER TREATMENT PLANT
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

PRIMARY SETTLING AND AERATION TANKS ELECTRICAL PLAN

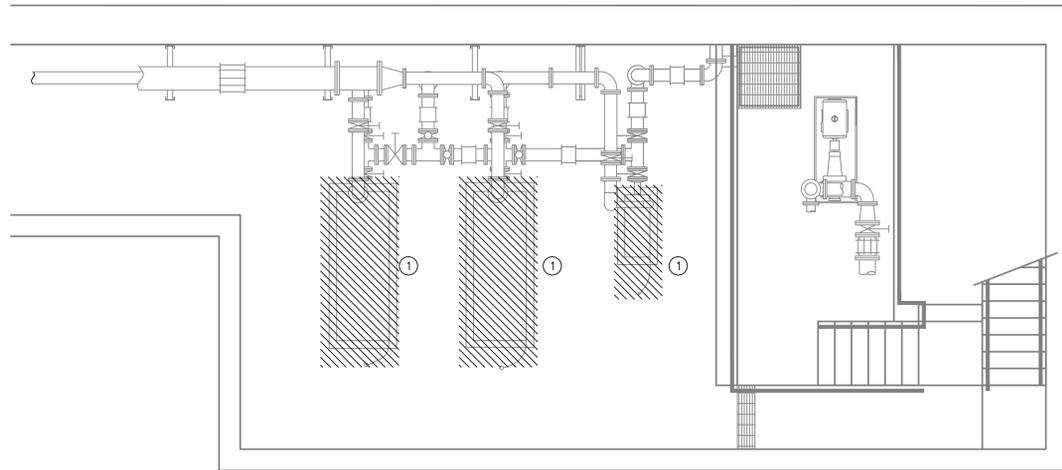
MORRIS ASSOCIATES, PLLC
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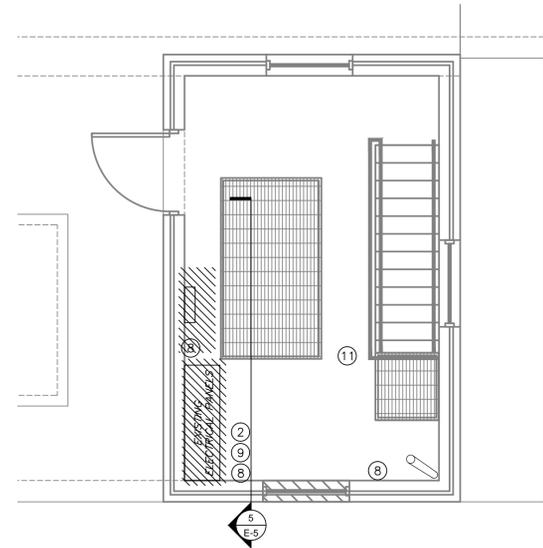
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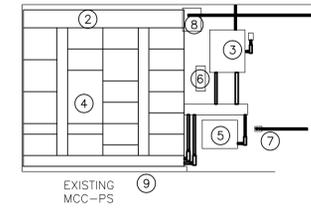
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		DRAWN BY: KMW	DRAWING No. E-4
		CHECKED BY: DW	



1
E-5
PUMP STATION LOWER LEVEL DEMOLITION PLAN
SCALE: 1/4"=1'-0"



2
E-5
PUMP STATION UPPER LEVEL DEMOLITION PLAN
SCALE: 1/4"=1'-0"



5
E-5
EXISTING ELECTRICAL EQUIPMENT DEMOLITION PLAN
SCALE: 1/4"=1'-0"

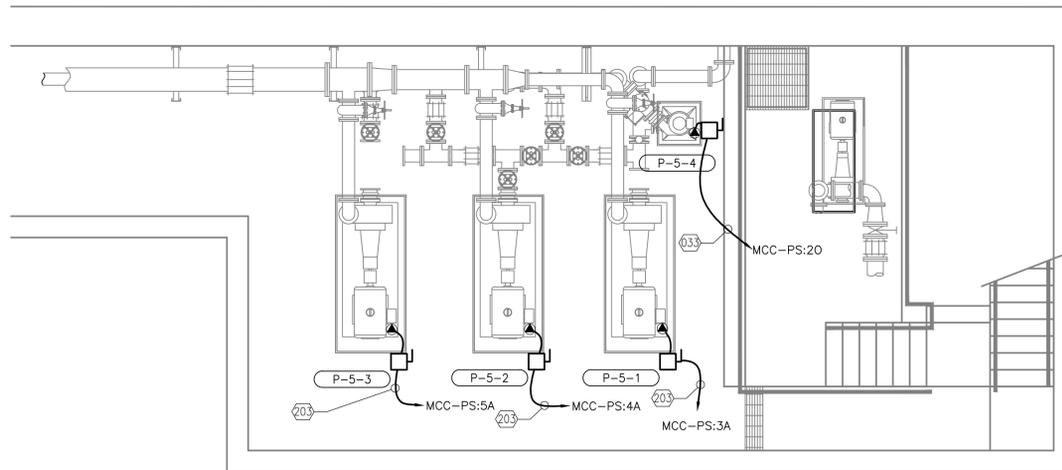
EXISTING CONDITION DESIGNATION

DEMOLITION NOTES:

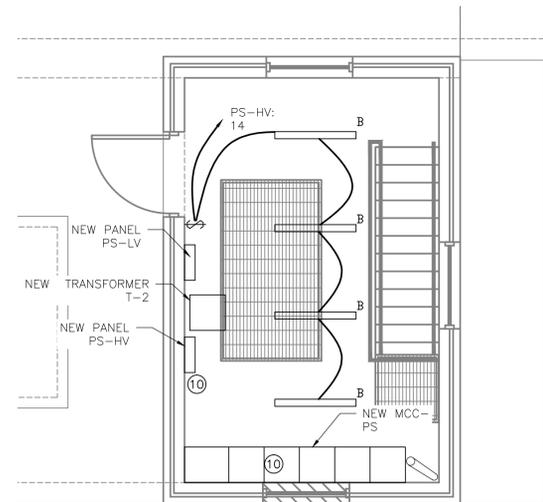
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2. WHENEVER THE CONTRACTOR IS REQUIRED TO DEMOLISH A PANELBOARD, MOTOR CONTROL CENTER, OR ANY POWER SOURCE SUPPLYING POWER TO MULTIPLE DEVICES OR LOCATIONS, THE CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS. ANY CIRCUITS ROUTED TO LOCATIONS OUTSIDE THE DEMOLITION AREA SHALL BE RELOCATED AS REQUIRED. THE OWNER SHALL BE NOTIFIED PRIOR TO THE CIRCUIT RELOCATION.
3. THE CONTRACTOR SHALL DISCONNECT ALL ELECTRICAL DEVICES/EQUIPMENT (PANELS, TRANSFORMERS, BUSDUCT, RECEPTACLES, SWITCHES, LIGHTS, MOTORS, ETC.) LIGHTING AND POWER FEEDERS ASSOCIATED WITHIN THE AREA OF WORK AS SHOWN (INCLUDING BUILDING EXTERIOR AND ROOF-TOP EQUIPMENT), TO ALLOW FOR SAFE AND COMPLETE REMOVAL OF ALL EQUIPMENT BEING DEMOLISHED. BACK TO SOURCE ALONG WITH ALL ASSOCIATED CONDUITS, CONDUCTORS, ETC. UNLESS OTHERWISE NOTED.

DRAWING NOTES: (N)

1. EXISTING PUMP TO BE REMOVED. DISCONNECT POWER AND REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
2. EXISTING MCC TO BE REMOVED. REMOVE ALL UNUSED CONDUIT AND WIRE BACK TO THE SOURCE. EXISTING LOADS TO BE RE-ROUTED TO NEW MCC-PS, PS-HV OR PS-LV. SEE MCC-PS DETAIL AND PANEL SCHEDULE ON SHEET E-9 AND E-10. PROVIDE JUNCTION BOXES, CONDUIT AND WIRE AS REQUIRED TO EXTEND WIRING TO NEW LOCATION.
3. EXISTING PANEL LL-1 TO BE REMOVED. ALL EXISTING CIRCUITS TO BE RELOCATED TO NEW PANEL PS-LV. REMOVE ALL CONDUIT AND WIRE ASSOCIATED WITH THIS PANEL AND EXTEND TO NEW PANEL. PROVIDE JUNCTION BOXES AND SPLICES AS REQUIRED.
4. LOCATION OF EXISTING PANEL P, A 22 CIRCUIT PANEL TO BE REMOVED WITH MCC-PS. ALL EXISTING LOADS TO BE EXTENDED TO NEW PANEL PS-LV. PROVIDE JUNCTION BOXES AND SPLICES AS REQUIRED.
5. REMOVE EXISTING TRANSFORMER. AND ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE SOURCE.
6. EXISTING FIRE EXTINGUISHER TO BE REMOVED AND RELOCATED TO ALLOW FOR THE INSTALLATION OF NEW PANELS AND TRANSFORMER.
7. EXISTING RECEPTACLE: REMOVE AND RELOCATE TO ALLOW FOR THE INSTALLATION OF NEW POWER PANELS AND TRANSFORMERS.
8. RELOCATE EXISTING CONDUITS THAT PENETRATE THE EXTERIOR WALL REPAIR ALL WALL PENETRATIONS AND PAINT THE REPAIRED WALL TO MATCH EXISTING. (TYPICAL OF 4)
9. REMOVE EXISTING HOUSE KEEPING PAD AND ALL ASSOCIATED MATERIALS FOR THE EXISTING MCC. REPAIR AND RESTORE FINISHED FLOOR TO EXISTING ADJACENT CONDITIONS.
10. PROVIDE HOUSE KEEPING PAD FOR NEW FLOOR MOUNT EQUIPMENT IN ACCORDANCE WITH THE EQUIPMENT SPECIFICATIONS.
11. REMOVE EXISTING LIGHTING AND REPLACE WITH NEW AS SHOWN IN DETAIL E5/4.



3
E-5
PUMP STATION LOWER LEVEL ELECTRICAL PLAN
SCALE: 1/4"=1'-0"



4
E-5
PUMP STATION UPPER LEVEL ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

5	ISSUED FOR 100% REVIEW	03/06/15	KMW
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3	DEC SUBMISSION	9/30/14	KMW
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

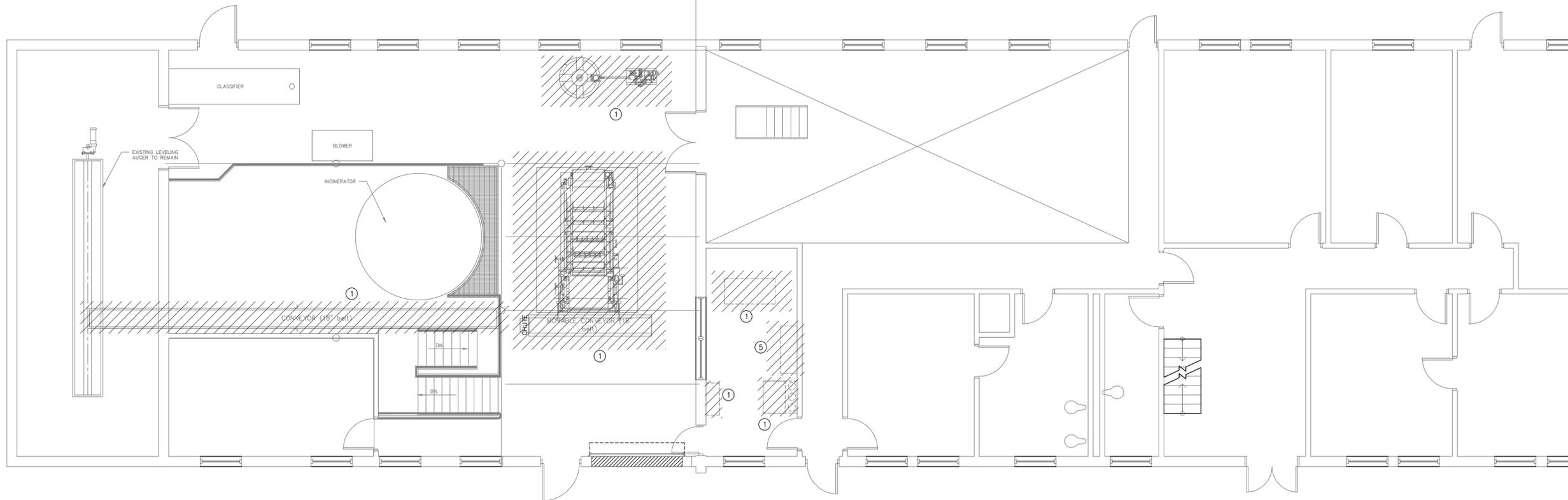
SLUDGE PUMPING STATION UPPER AND LOWER LEVEL ELECTRICAL PLAN

WE
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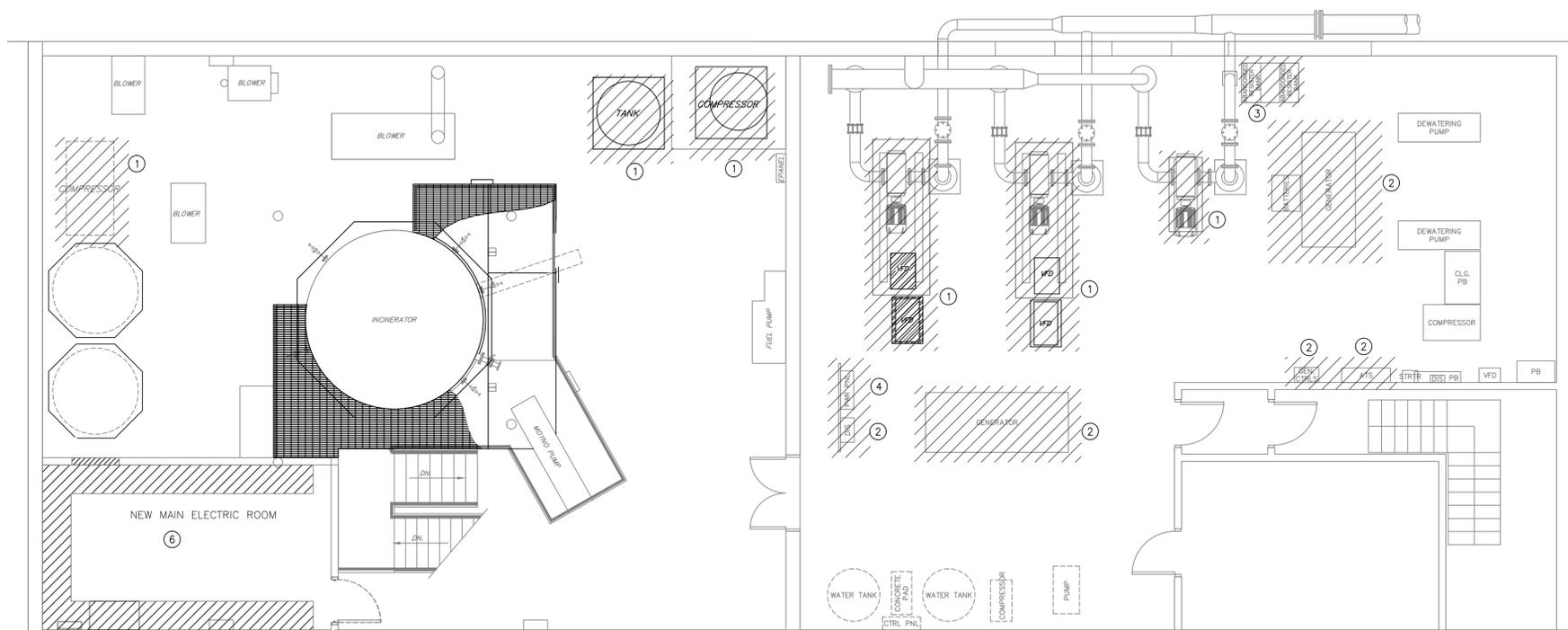
MORRIS ASSOCIATES, ENGINEERING CONSULTANTS, PLLC
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DATE	SCALE	DESIGNED BY	FILE No.	DRAWING No.
01/15/14	AS SHOWN	KMW	WE14209	E-5
		DRAWN BY: KMW		
		CHECKED BY: DW		



2 CONTROL BUILDING UPPER LEVEL DEMO PLAN
E-6 SCALE: 3/16"=1'-0"

- DRAWING NOTES:**
- EXISTING EQUIPMENT TO BE REMOVED. DISCONNECT POWER AND REMOVE AND DISPOSE OF ALL ASSOCIATED CONDUIT WIRE, BACK TO ITS SOURCE. INCLUDE ALL DISCONNECTS, STARTERS AND HANGARS AND SUPPORTS.
 - REMOVE EXISTING GENERATOR, INCLUDING ALL CONDUIT, WIRE, HOUSE KEEPING PADS, TRANSFER SWITCHES AND HANGARS AND SUPPORTS.
 - REMOVE EXISTING LOAD BANK. REMOVE ALL DUCTWORK AND HOUSE KEEPING PADS.
 - EXISTING PANEL EP2 TO BE REMOVED. DISCONNECT ALL EXISTING CIRCUITS PROVIDE JUNCTION BOXES AND NEW CONDUIT AND WIRE AND INSTALL SPLICES TO EXTEND SERVICES TO NEW PANEL CB-HV.
 - EXISTING MCC TO BE REMOVED. FEEDER TO BE REUSED TO FEED NEW PANEL CB-HV2. PROVIDE JUNCTION BOXES AND ADDITIONAL CONDUIT AND INSTALL SPLICES TO EXTEND FEEDER TO NEW PANEL.
 - EXISTING LIGHTING AND SWITCHES TO BE REMOVED. REMOVE AND DISPOSE OF ALL CONDUIT, JUNCTION BOXES AND ASSOCIATED WIRING. MAKE ALL REMOVALS BACK TO SOURCE.



1 CONTROL BUILDING LOWER LEVEL ELECTRICAL DEMO PLAN
E-6 SCALE: 3/16"=1'-0"

EXISTING CONDITION DESIGNATION

- DEMOLITION NOTES:**
- THE CONTRACTOR SHALL FIELD VERIFY ALL ELECTRICAL ISOLATION (LOCK & TAG) AND EQUIPMENT SHOWN FOR SAFE DEMOLITION AND REMOVAL.
 - WHENEVER THE CONTRACTOR IS REQUIRED TO DEMOLISH A PANELBOARD, MOTOR CONTROL CENTER, OR ANY POWER SOURCE SUPPLYING POWER TO MULTIPLE DEVICES OR LOCATIONS, THE CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS. ANY CIRCUITS ROUTED TO LOCATIONS OUTSIDE THE DEMOLITION AREA SHALL BE RELOCATED AS REQUIRED. THE OWNER SHALL BE NOTIFIED PRIOR TO THE CIRCUIT RELOCATION.
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1	ISSUED FOR 30% REVIEW	6/30/14	MA



ARLINGTON WASTEWATER TREATMENT PLANT
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

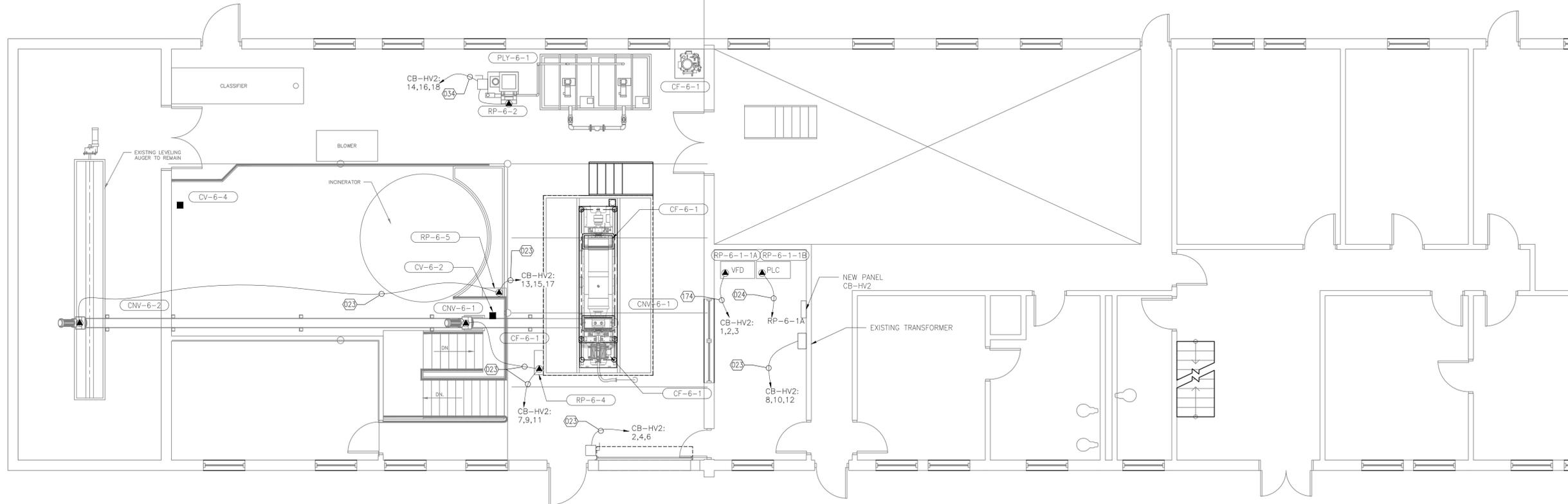
**ELECTRICAL DEMOLITION PLAN
BLOWER RM AND BELT FILTER PRESS**

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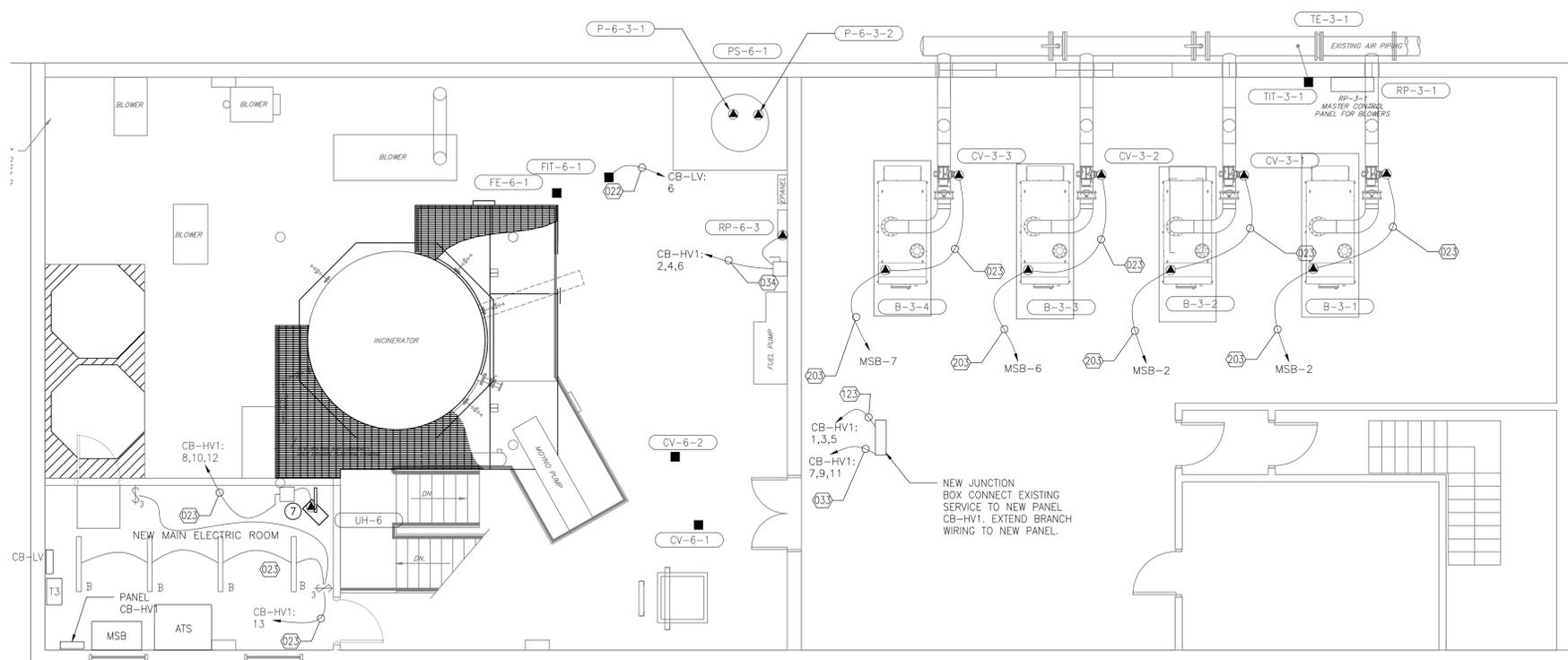
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1 CONTROL BUILDING UPPER LEVEL ELECTRICAL PLAN
 E-7 SCALE: 3/16"=1'-0"



2 CONTROL BUILDING LOWER LEVEL ELECTRICAL PLAN
 E-7 SCALE: 3/16"=1'-0"

5	ISSUED FOR 100% REVIEW	03/06/15	KMW
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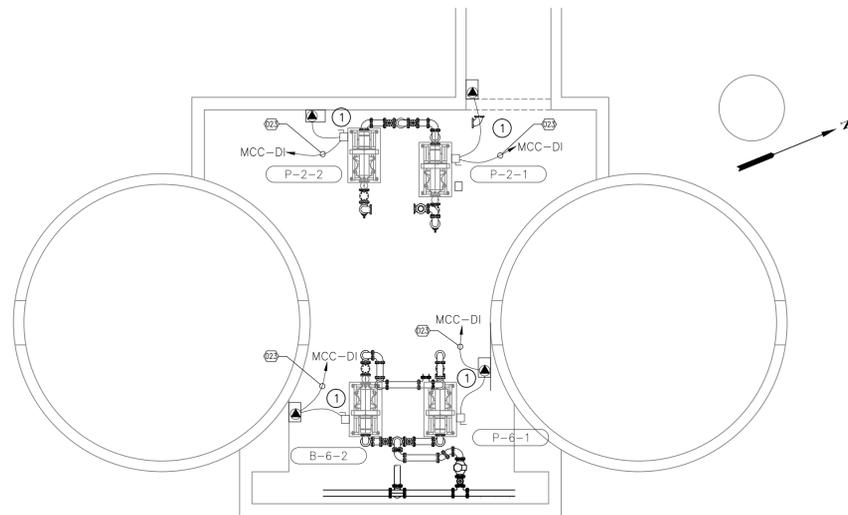
ARLINGTON WASTEWATER TREATMENT PLANT
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY
ELECTRICAL PLAN-BLOWER ROOM AND DEWATERING CENTRIFUGE

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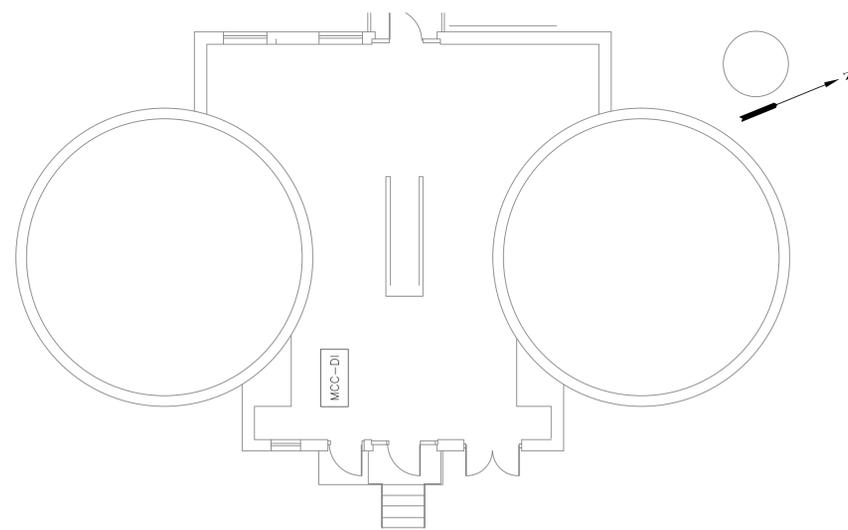
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DRAWING NOTES: #

1. EXISTING MOTOR TO BE REPLACED. REMOVE EXISTING VFD AND DISCONNECT. PROVIDE NEW VFD AND DISCONNECT. PROVIDE ALL NEW CONDUIT AND WIRE AS REQUIRED TO WIRE NEW EQUIPMENT.

1
E-8
THICKENER BUILDING LOWER LEVEL ELECTRICAL PLAN
SCALE: 1/8"=1'-0"



2
E-8
THICKENER BUILDING UPPER LEVEL ELECTRICAL PLAN
SCALE: 1/8"=1'-0"

REV. No.	DESCRIPTION	DATE	BY
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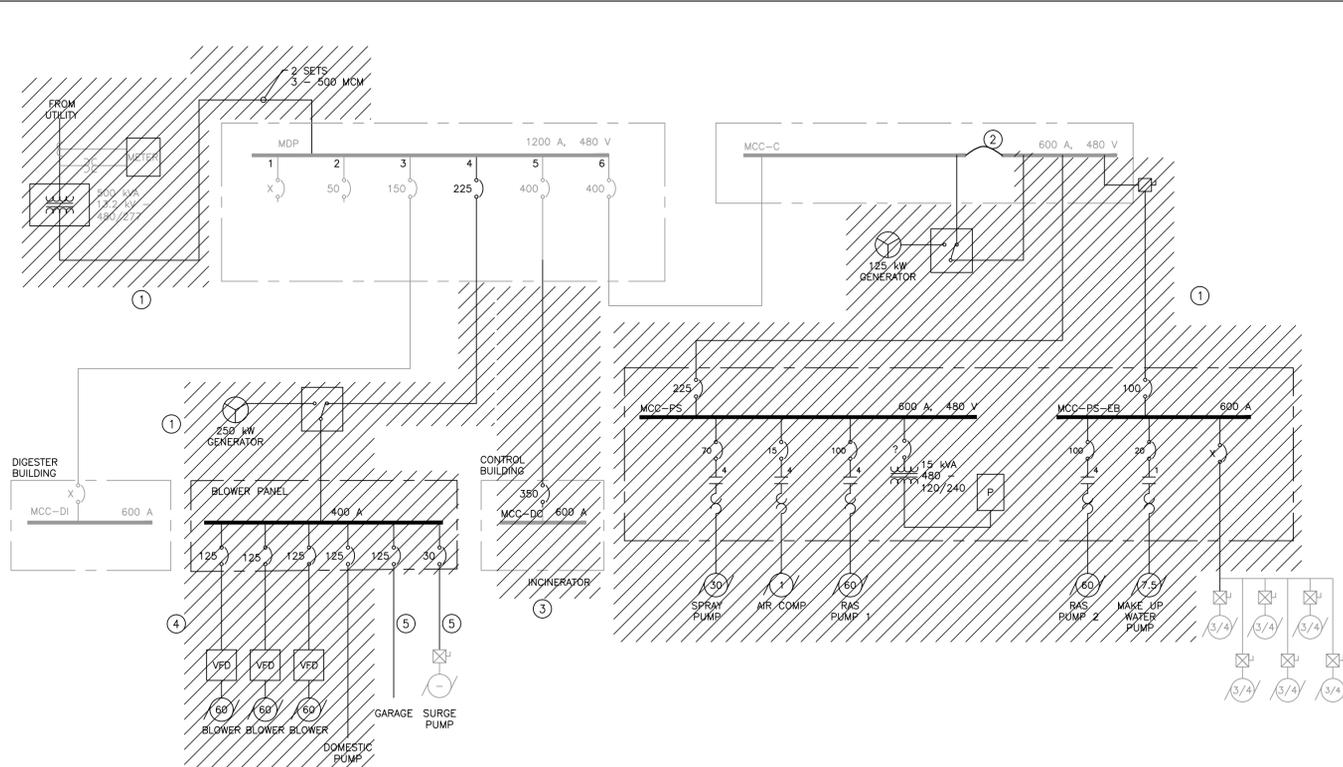
ARLINGTON WASTEWATER TREATMENT PLANT
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY
ELECTRICAL PLAN THICKENER BUILDING

WE WHITMAN ENGINEERING, P.C.
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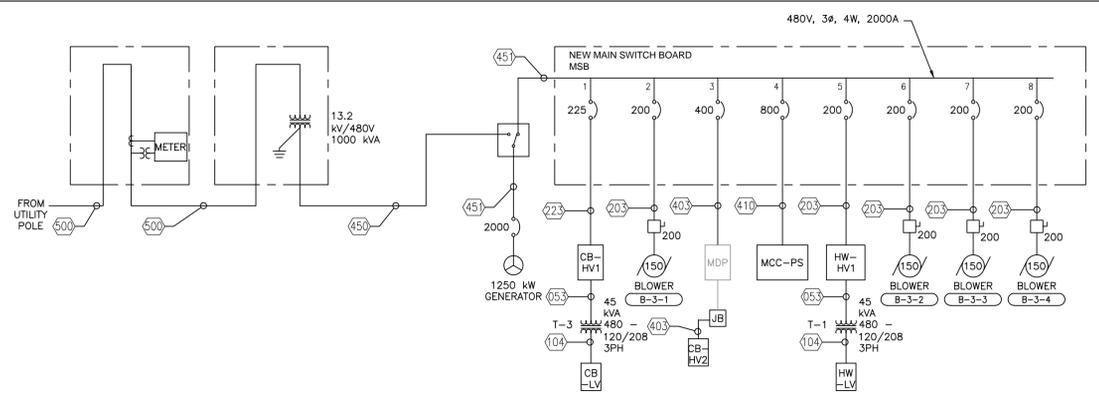
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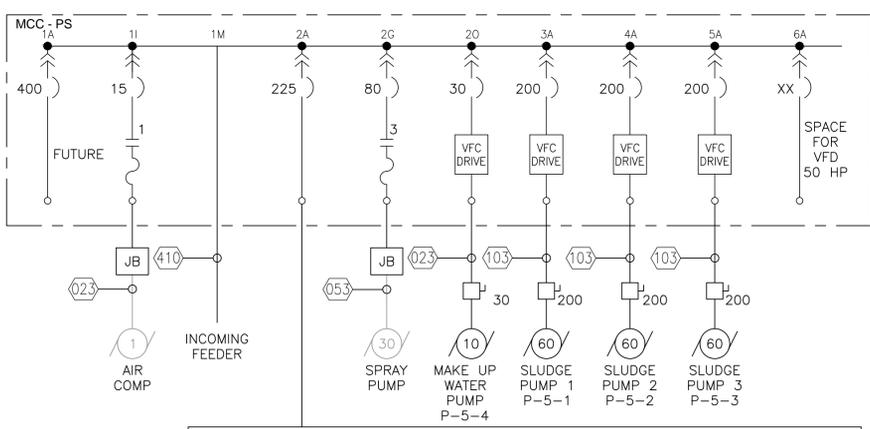
DATE 01/15/14	SCALE AS SHOWN	DESIGNED BY: KMW DRAWN BY: KMW CHECKED BY: DW	FILE No. WE14209	DRAWING No. E-8
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1 DEMO ONE-LINE DIAGRAM
E-9 SCALE: NONE



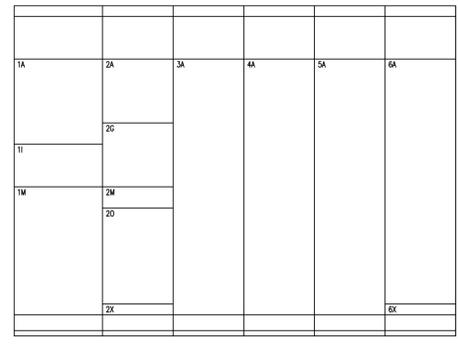
2 ELECTRICAL SERVICE ONE-LINE DIAGRAM
E-9 SCALE: NONE



3 NEW PUMP STATION ONE-LINE DIAGRAM
E-9 SCALE: NONE

MCC-PS SCHEDULE

SECT.	UNIT	EQUIPMENT / DISC.	HP / LOAD	TYPE	FRAME	TRIP	COMMENTS
1	A	FUTURE		SPACE ONLY	400		PROVIDE SPACE FOR FUTURE 400 AMP BREAKER
1	I	AIR COMPRESSOR	1 HP	COMBINATION STARTER	150	15	
1	M	INCOMING FEEDER		LUGS ONLY			
2	A	PS-HV		BREAKER	250	225	
2	G	SPRAY PUMP	30 HP	COMBINATION STARTER	150	100	
2	M	ASD LINE REACTOR					
2	O	MAKE UP WATER PUMP P-5-4	10 HP	VFD	150	35	
3	A	SLUDGE PUMP P-5-1	60 HP	VFD	250	200	
4	A	SLUDGE PUMP P-5-2	60 HP	VFD	250	200	
5	A	SLUDGE PUMP P-5-3	60 HP	VFD	250	200	
6	A	SPACE FOR FUTURE VFD		SPACE ONLY FOR 50 HP VFD	250		PROVIDE SPACE FOR FUTURE 400 AMP BREAKER



4 MCC-PS FRONT ELEVATION
E-9 SCALE: NONE

CONTROL WIRE SCHEDULE

###	C. SIZE	WIRES
800	3/4"	2-#14, #14G
801	3/4"	4-#14, #14G
802	3/4"	6-#14, #14G
803	3/4"	8-#14, #14G
804	3/4"	10-#14, #14G
805	3/4"	12-#14, #14G
806	3/4"	4-#14, #14G
810	1"	1-2C #16, TSP
811	1"	2-2C #16, TSP
812	1"	3-2C #16, TSP
820	1"	1-CAT 6
821	2"	3-CAT 6 CABLES

CONTROL WIRE SCHEDULE

###	C. SIZE	WIRES
001	1"	SPARE CONDUIT OR AS NOTED
002	2"	SPARE CONDUIT OR AS NOTED
003	3"	SPARE CONDUIT OR AS NOTED
004	4"	SPARE CONDUIT OR AS NOTED
007	3/4"	SPARE CONDUIT OR AS NOTED
010	3/4"	2-#14, #14G
011	3/4"	4-#14, #14G
022	3/4"	2-#12, #12G
023	3/4"	3-#12, #12G
024	3/4"	4-#12, #12G
032	3/4"	2-#10, #10G
033	3/4"	3-#10, #10G
034	3/4"	4-#10, #10G
052	3/4"	2-#8, #10G
053	3/4"	3-#8, #10G
054	3/4"	4-#8, #10G
062	3/4"	2-#6, #8
063	3/4"	3-#6, #8
064	1"	4-#6, #8G
082	1"	2-#4, #8G
083	1"	3-#4, #8G
084	1-1/4"	4-#4, #8G
103	1-1/4"	3-#3, #8G
104	1-1/4"	4-#3, #8G
123	1-1/4"	3-#1, #6G
174	2"	4-2/0, #6G
203	2"	3-3/0, #6G
223	2-1/2"	(4)-250MCM, #4G
400	4"	4"-500MCM, #3G
403	4"	3-500MCM, 3G
410	2-4"	2-SETS 4-500MCM, 1/0G
450	6-3"	6-SETS 4-400MCM
451	6-3"	6 SETS 4-400MCM, 3/0G
500	5"	(3)#2 15KV CONCENTRIC NEUTRAL AL CH&E SPEC.

- DRAWING NOTES:**
- CONTRACTOR TO REMOVE DISPOSE OF ALL CONDUIT AND WIRING ASSOCIATED WITH EQUIPMENT AS INDICATED INCLUDING JUNCTION BOXES AND AND CONTROL WIRING.
 - REMOVE EXISTING EMERGENCY FEED TO MCC-C-EM. REPLACE IT WITH 3-500MCM WIRES AND LUGS. THE EMERGENCY SECTION TO BE FED FROM THE NORMAL SIDE OF MCC-C. TAP THE BUS AS NEEDED. EXTEND THE GROUND BUS TO THE NORMAL SIDE BUS.
 - EXISTING MCC-DO TO BE REMOVE AND DISPOSED PROPERLY. THE FEEDER IS TO BE REUSED TO FEED NEW PANEL CB-HV2.
 - REMOVE BLOWER PANEL. REMOVE ALL ASSOCIATED CONDUIT AND WIRE.
 - EQUIPMENT TO BE RE-FED FROM NEW MAIN SWITCH BOARD PROVIDE NEW CONDUIT, WIRE AND JUNCTION BOXES AS NEED TO FEED FROM PANEL CB-HV1.

5 ELECTRICAL WIRE AND CONDUIT SCHEDULES
E-9 SCALE: NONE

5	ISSUED FOR 100% REVIEW	03/06/15	KMW
4	ISSUED FOR 90% REVIEW	11/30/2014	KMW
3	DEC SUBMISSION	9/30/14	KMW
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

ONE LINE DIAGRAMS



consultants
planners
designers
mechanical
electrical
plumbing
2600 South Rd #44-260
Poughkeepsie, NY 12601
845-411-6036

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DATE	SCALE	DESIGNED BY	FILE No.
01/15/14	AS SHOWN	KMW	WE14209
DRAWN BY	CHECKED BY	DATE	DRAWING No.
KMW	DW		E-9

ELECTRICAL PANEL HW-HV SCHEDULE						
VOLTAGE: 480/277 V 3Ø 4W TYPE: MAIN LUGS ONLY MOUNTING: SURFACE POLES: 42 MAINS: 250A						
POS.	AREA SERVED	CB.		CB.	AREA SERVED	POS.
1						2
3	RP-1-1	50		50	BOOSTER PUMPS RP-1-5	4
5						6
7						8
9	PANEL HW-LV VIA T-1	45		20	UH-1	10
11						12
13						14
15	UH-2	20		20	UH-3	16
17						18
19						20
21	UH-4	20		20	UH-5	22
23						24
25						26
27	EXHAUST FANS EF-1 & EF-2	20		20	LIGHTING PROCESS AREA	28
29						30
31	SPACE	20			SPACE	32
33	SPACE	20			SPACE	34
35	SPACE	20			SPACE	36
37	SPACE				SPACE	38
39	SPACE				SPACE	40
41	SPACE				SPACE	42

ELECTRICAL PANEL HW-LV SCHEDULE						
VOLTAGE: 208/120 3Ø 4W TYPE: 100A MCB MOUNTING: SURFACE POLES: 30 MAINS: 100A						
POS.	AREA SERVED	CB.		CB.	AREA SERVED	POS.
1	PH SENSOR AIT-1-1	20				2
3	FIT SENSOR FIT-1-1	20		20	EF-3	4
5	EXTERIOR RECEPTACLES	20				6
7	SPARE	20				8
9	SPARE	20				10
11	SPARE	20				12
13	SPARE	20				14
15	SPARE	20				16
17	SPARE	20				18
19	SPARE	20				20
21	SPACE					22
23	SPACE					24
25	SPACE					26
27	SPACE					28
29	SPACE					30

ELECTRICAL PANEL CB-HV1 SCHEDULE						
VOLTAGE: 480/277 V 3Ø 4W TYPE: MAIN LUGS ONLY MOUNTING: SURFACE POLES: 42 MAINS: 250A						
POS.	AREA SERVED	CB.		CB.	AREA SERVED	POS.
1						2
3	GARAGE BUILDING	125		30	RP-6-3 DOMESTIC PUMPS	4
5						6
7						8
9	SURGE PUMP	30		20	UH-6	10
11						12
13	LIGHTING ELECTRIC ROOM	20				14
15						16
17						18
19						20
21						22
23						24
25						26
27						28
29						30
31						32
33						34
35						36
37						38
39						40
41						42

ELECTRICAL PANEL CB-HV2 SCHEDULE						
VOLTAGE: 480/277 V 3Ø 4W TYPE: MAIN LUGS ONLY MOUNTING: SURFACE POLES: 42 MAINS: 250A						
POS.	AREA SERVED	CB.		CB.	AREA SERVED	POS.
1						2
3	RP-6-1-1A	175		20	GARAGE DOOR	4
5						6
7						8
9	RP-6-4 FOR CNV-6-1	20		20	XFMR TO FEED AC UNIT	10
11						12
13						14
15	RP-6-5 FOR CNV-6-2	20		30	POLYMER SYSTEM	16
17						18
19						20
21						22
23						24
25						26
27						28
29						30
31						32
33						34
35						36
37						38
39						40
41						42

ELECTRICAL PANEL PS-HV SCHEDULE						
VOLTAGE: 480/277 V 3Ø 3W TYPE: MAIN LUGS ONLY MOUNTING: SURFACE POLES: 42 MAINS: 250A						
POS.	AREA SERVED	CB.		CB.	AREA SERVED	POS.
1						2
3	PANEL PS-LV VIA T-2	45		20	ELECTRIC VALVE MOTORS	4
5						6
7						8
9	SECONDARY SCUM PUMP	20		20	COLLECTOR DRIVES	10
11						12
13						14
15	STAND-BY EFFLUENT PUMP	20		20	CONTROL VALVES CV-3-4, CV-3-5, CV-3-6	16
17						18
19	LIGHTING UPPER LEVEL	20			SPACE	20
21	SPARE	20			SPACE	22
23	SPARE	20			SPACE	24
25	SPACE				SPACE	26
27	SPACE				SPACE	28
29	SPACE				SPACE	30
31	SPACE				SPACE	32
33	SPACE				SPACE	34
35	SPACE				SPACE	36
37	SPACE				SPACE	38
39	SPACE				SPACE	40
41	SPACE				SPACE	42

ELECTRICAL PANEL PS-LV SCHEDULE						
VOLTAGE: 208/120 V 3Ø 4W TYPE: 100A MCB MOUNTING: SURFACE POLES: 42 MAINS: 250A						
POS.	AREA SERVED	CB.		CB.	AREA SERVED	POS.
1	LIGHTS LOWER LVL	20		20	LIGHTS UPPER LVL	2
3	LIGHTS LOWER LEVEL	20		20	LTS- SETTLING TANK	4
5	PLUGS & ROOF DRAIN	20		20	LIGHTS SETTLING TANK	6
7	LIGHTS TUNNEL 3-WAY	20		20	SPACE	8
9	CATHODIC PROTECTION	20		20	PLUGS AERATION TANK	10
11	SUMP PUMP	20		20	LIGHTS TUNNEL	12
13	HEAT TAPE	20		20	MOTOR HEATERS	14
15	INSTRUMENTATION	20		20	METERS	16
17	INSTRUMENTATION	20		20	SPACE	18
19	SHED	20		20	SHED	20
21						22
23	CHLORINE REC	20		20	CHLORINE PUMP	24
25	RECEPTS SETTLING TANK	20		20	NEW TRANSMITTERS IN AERATION	26
27	RECEPT. SETTLING TANK	20		20	SPACE	28
29	SPACE	20		20	SPACE	30
31	SPACE	20		20	SPACE	32
33	SPACE	20		20	SPACE	34
35	SPACE	20		20	SPACE	36
37	SPACE	20		20	SPACE	38
39	SPACE	20		20	SPACE	40
41	SPACE	20		20	SPACE	42

ELECTRICAL PANEL CB-LV SCHEDULE						
VOLTAGE: 208/120 3Ø 4W TYPE: 100A MCB MOUNTING: SURFACE POLES: 30 MAINS: 100A						
POS.	AREA SERVED	CB.		CB.	AREA SERVED	POS.
1						2
3	GENERATOR JACKET HEATER	30		20	GENERATOR BATTERY CHARGER	4
5						6
7	SPARE	20				8
9	SPARE	20				10
11	SPARE	20				12
13	SPARE	20				14
15	SPARE	20				16
17	SPARE	20				18
19	SPARE	20				20
21	SPACE					22
23	SPACE					24
25	SPACE					26
27	SPACE					28
29	SPACE					30

- DRAWING NOTES:** #
- EXISTING EQUIPMENT CURRENTLY BEING FED FROM PANEL BLOWER PANEL. PROVIDE CONDUIT, WIRE AND JUNCTION BOXES AS REQUIRED TO EXTEND FEEDERS TO THIS PANEL.
 - EXISTING EQUIPMENT CURRENTLY BEING FED FROM MCC-DO. PROVIDE CONDUIT, WIRE AND JUNCTION BOXES AS REQUIRED TO EXTEND FEEDERS TO THIS PANEL.
 - EXISTING EQUIPMENT CURRENTLY BEING FED FROM EXISTING MCC IN PUMP STATION BUILDING. PROVIDE CONDUIT, WIRE AND JUNCTION BOXES AS REQUIRED TO EXTEND FEEDERS TO THIS PANEL.
 - EXISTING EQUIPMENT CURRENTLY BEING FED FROM PANEL "P" AND PANEL "LLO-1" IN PUMP STATION BUILDING. PROVIDE CONDUIT, WIRE AND JUNCTION BOXES AS REQUIRED TO EXTEND FEEDERS TO THIS PANEL.

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR 100% REVIEW	03/06/15	KMW
4	ISSUED FOR 90% REVIEW	11/30/2014	KMW
3	DEC SUBMISSION	9/30/14	KMW
1	ISSUED FOR 30% REVIEW	6/30/14	MA



ARLINGTON WASTEWATER TREATMENT PLANT
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

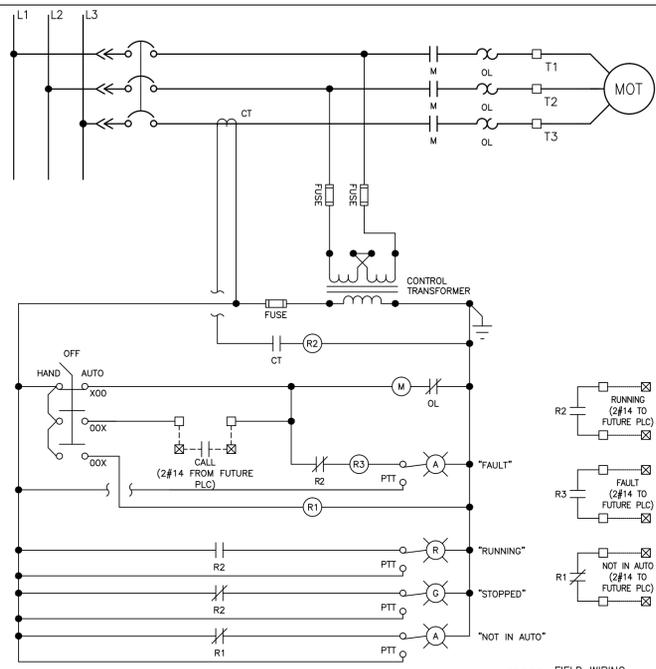
SCHEDULES

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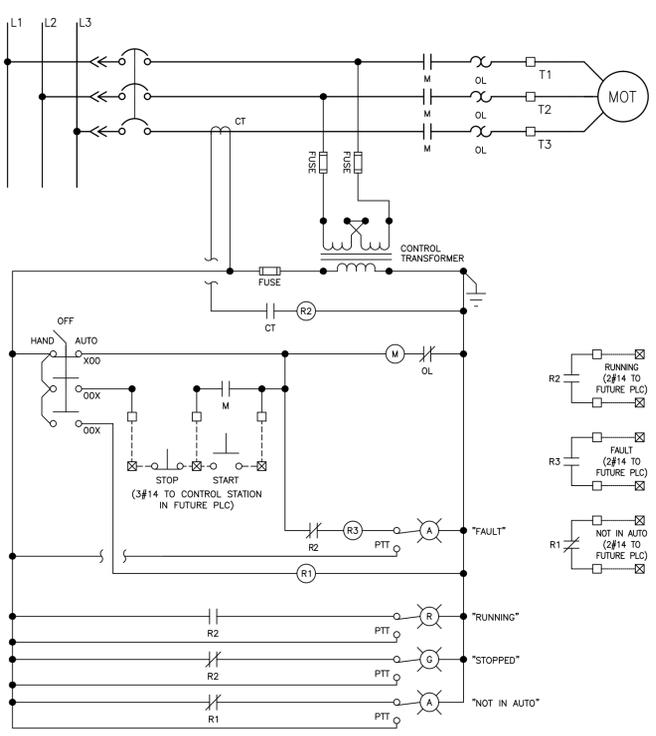
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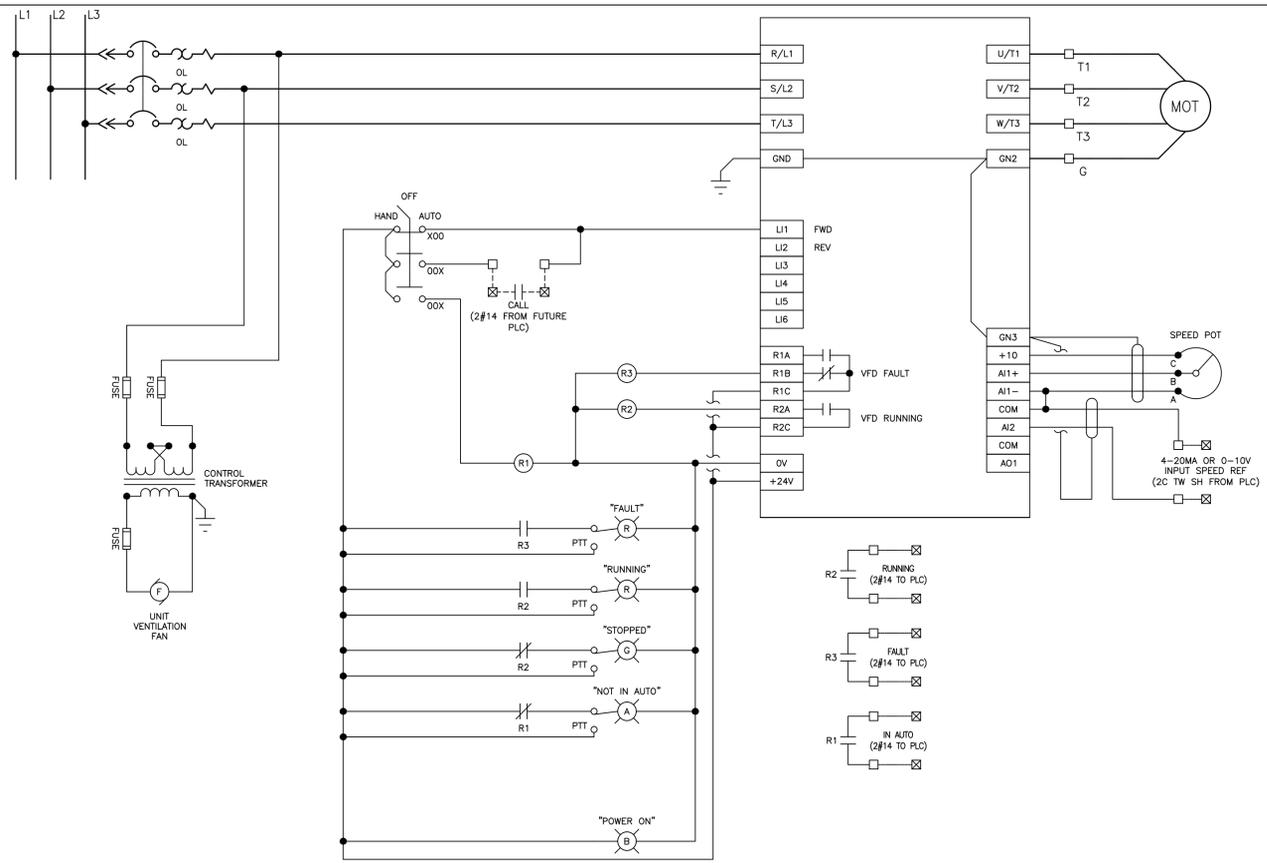
CONTROL SCHEME

- SCHEMATIC FOR:
- EF-1 HEAD WORKS EXHAUST FAN 1
 - EF-2 HEAD WORKS EXHAUST FAN 2



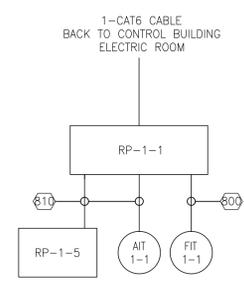
CONTROL SCHEME

- SCHEMATIC FOR:
- PC-2-1 COLLECTION SYSTEM DRIVE TANK 1
 - PC-2-2 COLLECTION SYSTEM DRIVE TANK 2
 - PC-2-3 COLLECTION SYSTEM DRIVE TANK 3,4



CONTROL SCHEME

- SCHEMATIC FOR:
- P-2-1 PRIMARY SLUDGE PUMP
 - P-2-2 THICKENED SLUDGE PUMP
 - P-5-1 RAS PUMP
 - P-5-2 RAS PUMP
 - P-5-3 RAS PUMP
 - P-6-1 THICKENED SLUDGE PUMP
 - P-6-2 THICKENED SLUDGE PUMP
 - P-5-4 MAKE UP WATER PUMP



ADDITIONAL WIRING AS SHOWN ON E-13/1

**PRELIMINARY TREATMENT
ADDITIONAL CONTROL WIRING**

1
E-11

SCALE: NONE

5	ISSUED FOR 100% REVIEW	03/06/15	KMW
4	ISSUED FOR 90% REVIEW	11/30/2014	KMW
3	DEC SUBMISSION	9/30/14	KMW
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



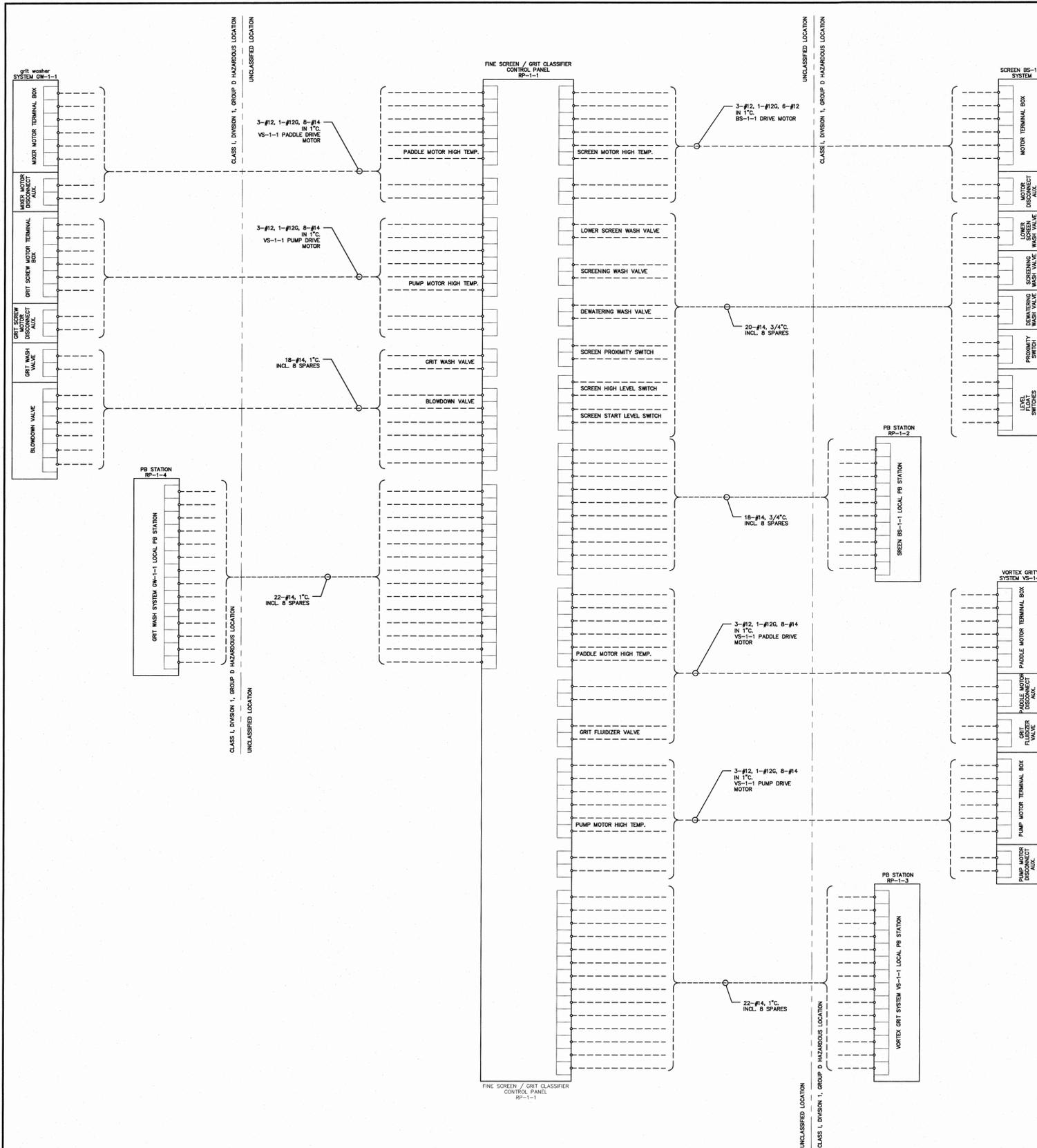
ARLINGTON WASTEWATER TREATMENT PLANT
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY
ELECTRICAL WIRING DIAGRAMS

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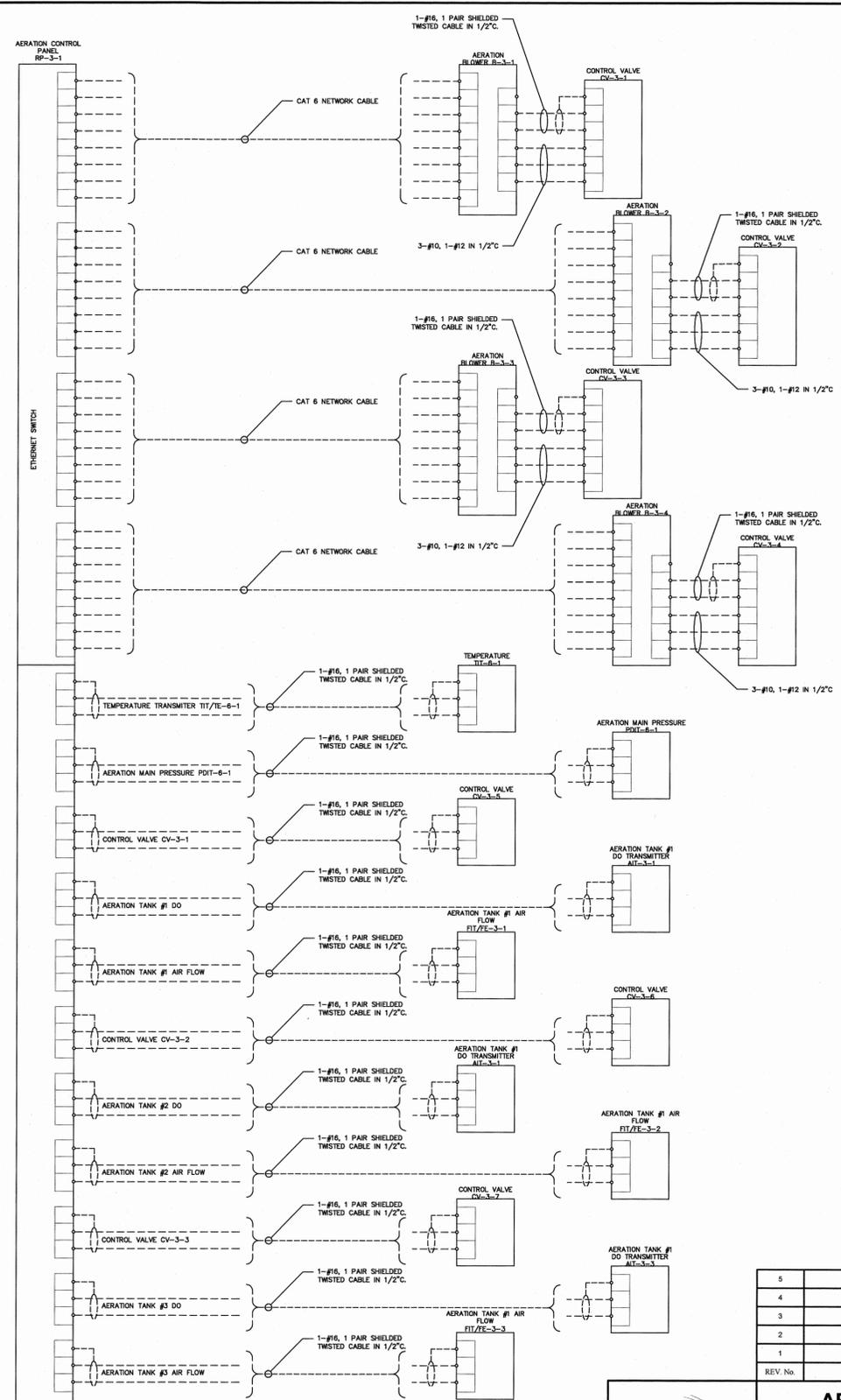
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DATE: 01/15/14	SCALE: AS SHOWN	DESIGNED BY: KMW DRAWN BY: KMW CHECKED BY: DW	FILE No.: WE14209	DRAWING No.: E-11
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1 PRELIMINARY TREATMENT PT-1-1 CONTROL WIRING DIAGRAM
E-13 SCALE: NONE



2 AERATION SYSTEM CONTROL WIRING DIAGRAM
E-13 SCALE: NONE

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/08/2015	MA
4	ISSUED FOR 90% REVIEW	11/20/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



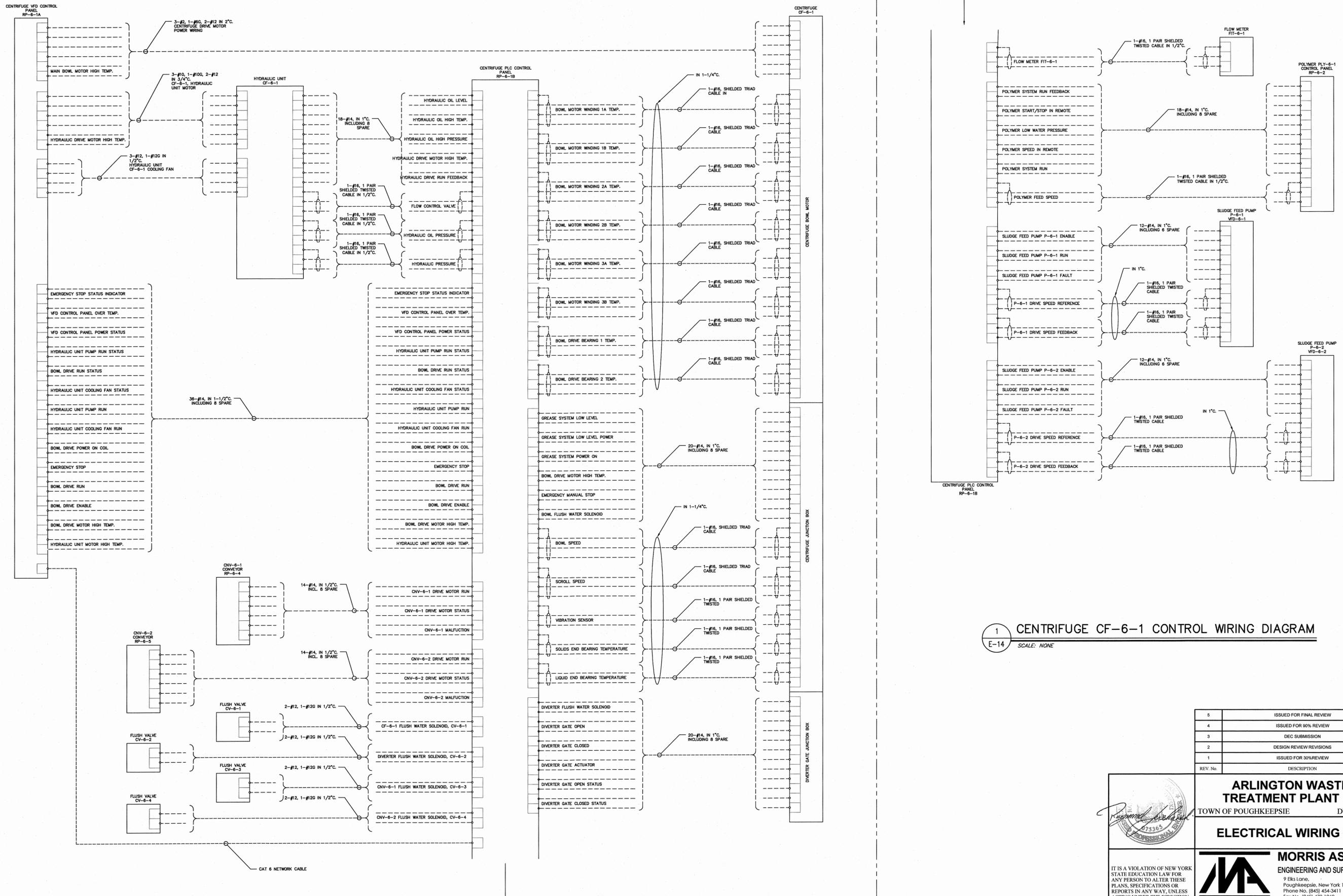
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

ELECTRICAL WIRING DIAGRAMS

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1 CENTRIFUGE CF-6-1 CONTROL WIRING DIAGRAM
 E-14 SCALE: NONE

REV. No.	DESCRIPTION	DATE	BY
5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/29/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA



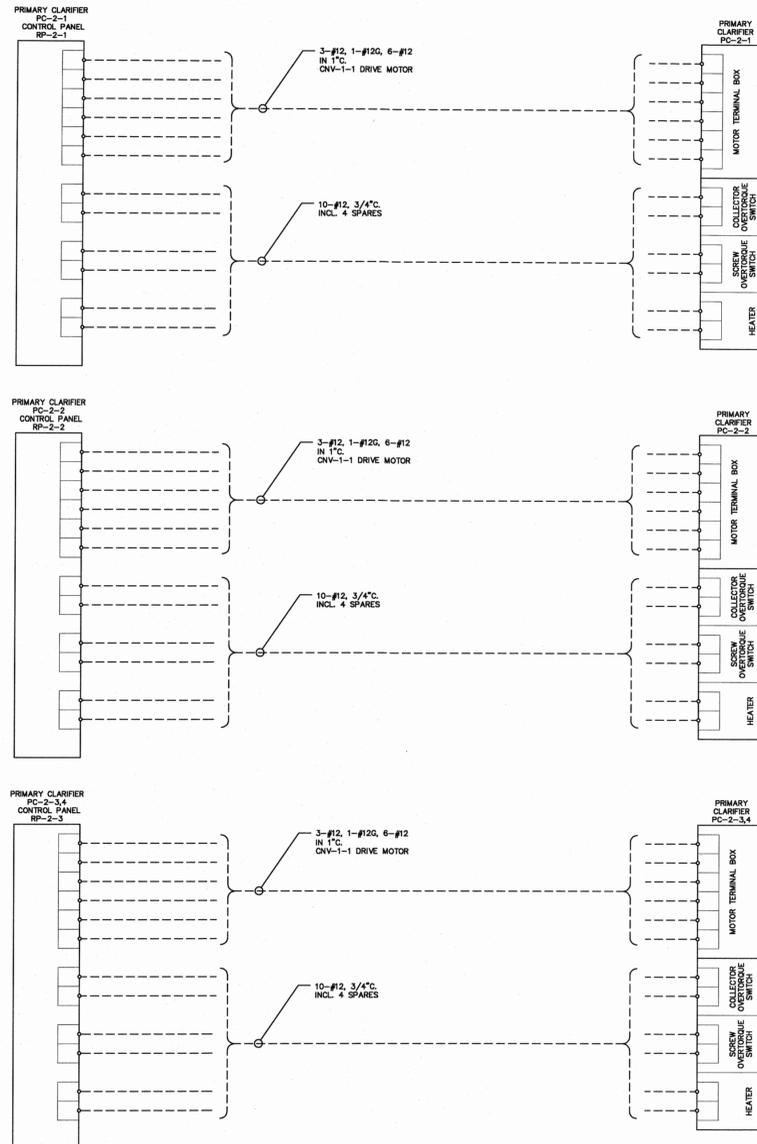
ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
 TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

ELECTRICAL WIRING DIAGRAMS

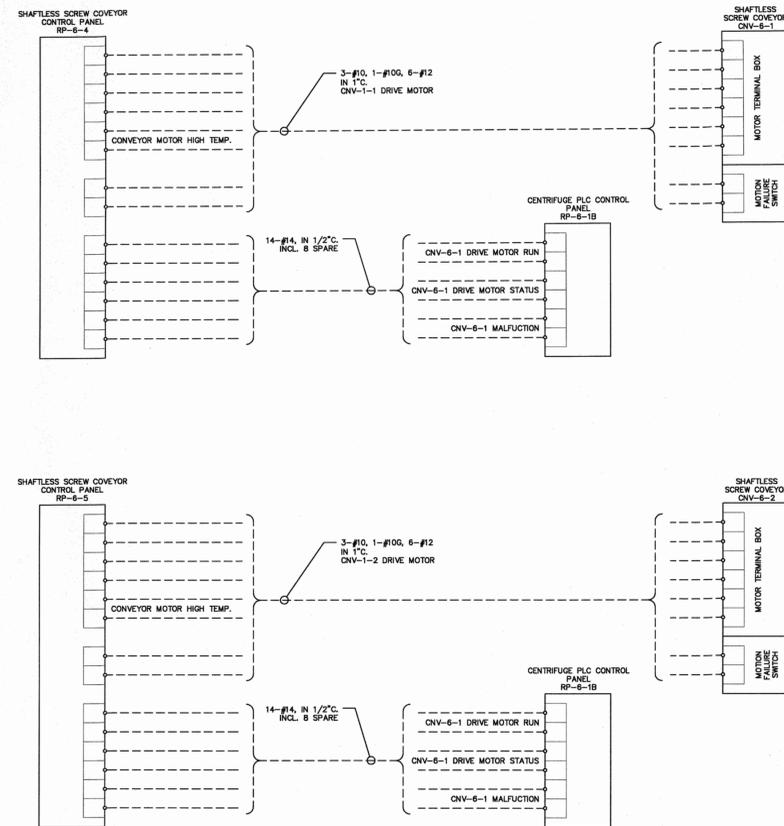
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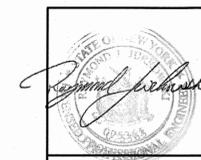


1 PC-2-1,-2,-3,-4 CONTROL WIRING DIAGRAM
E-15 SCALE: NONE



1 CNV-6-1,-2 CONTROL WIRING DIAGRAM
E-15 SCALE: NONE

5	ISSUED FOR FINAL REVIEW	03/06/2015	MA
4	ISSUED FOR 90% REVIEW	11/26/2014	MA
3	DEC SUBMISSION	9/30/14	MA
2	DESIGN REVIEW REVISIONS	9/05/14	MA
1	ISSUED FOR 30% REVIEW	6/30/14	MA
REV. No.	DESCRIPTION	DATE	BY



ARLINGTON WASTEWATER TREATMENT PLANT UPGRADE
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NY

ELECTRICAL WIRING DIAGRAMS

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		CHECKED BY	DRAWING No.
		MA - RJJ/JFL	E-15

