

JOSEPH G. CAPUTO COMMUNITY CENTER - LOCATION PLAN 95 BROADWAY

# VILLAGE OF OSSINING OSSINING, NEW YORK

MAYOR - RIKA LEVIN TRUSTEES - MANUEL R. QUEZADA, ROBERT M. FRITSCHE, OMAR LOPEZ, DANA WHITE

VILLAGE MANAGER KAREN D'ATTORE

CONTRACT NO. DPW-21-03

# REPLACEMENT OF CHILLER AT JOSEPH A. CAPUTO COMMUNITY CENTER

## LIST OF DRAWINGS

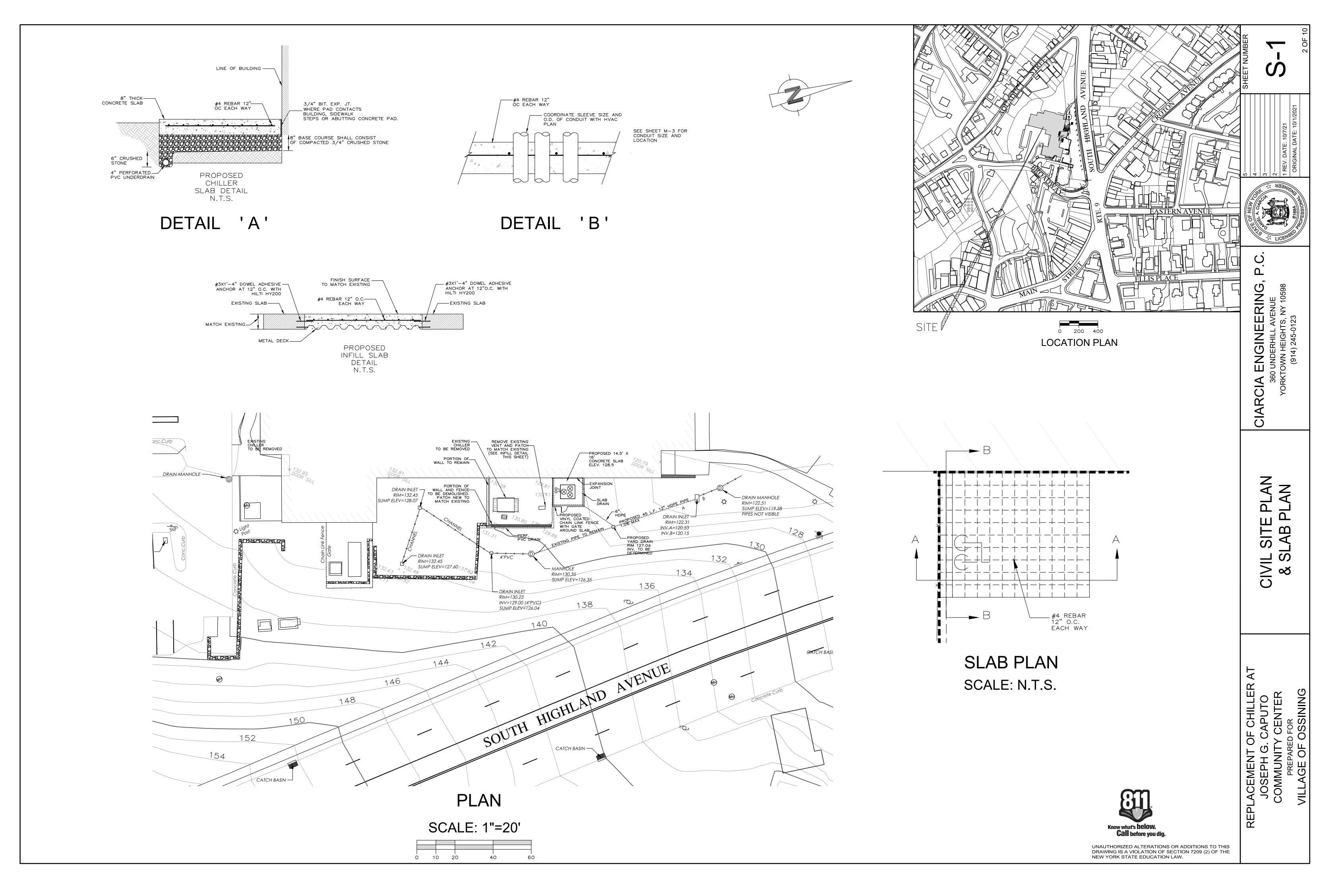
SHEET NO.	<u>TITLE</u>
T-1	TITLE SHEET
S-1	CIVIL SITE PLAN AND SLAB PLAN
S-2	CIVIL DETAILS
S-3	EROSION CONTROL PLAN
M-1	MECHANICAL GENERAL NOTES AND LEGEND
M-2	MECHANICAL DETAILS AND SCHEDULES
M-3	MECHANICAL SITE PLAN
M-4	MECHANICAL LOWER LEVEL PLAN
E-1	ELECTRICAL NOTES, DETAILS, LEGEND AND DIAGRAM
E-2	ELECTRICAL SITE PLAN AND DETAILS

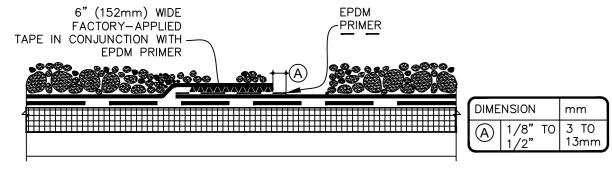
NO.	DATE	REVISION	BY
	NO.	NO. DATE	NO. DATE REVISION

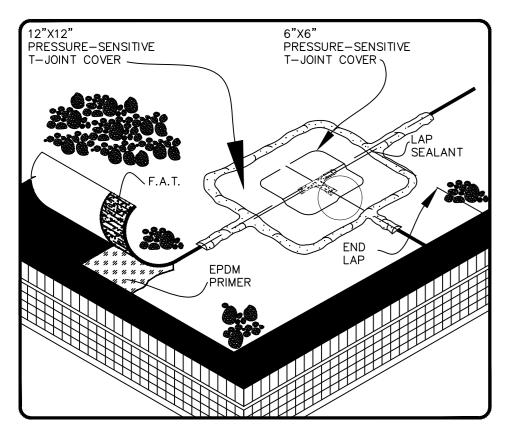




	OSSINING CHILLER REPLACEMENT	PROJECT NO.	210
	95 BROADWAY	SCALE	AS NOTE
	OSSINING, NEW YORK	DATE	11/03/202
PROJECT	· · · · · · · · · · · · · · · · · · ·	DRAWN BY	BG
	REPLACEMENT OF CHILLER	CHECKED BY	JGD
	AT JOSEPH G. CAPUTO COMMUNITY CENTER	DRAWING NO.	
SHEET TITLE	TITLE SHEET		T-1
		SHEET NO.	1 of 10



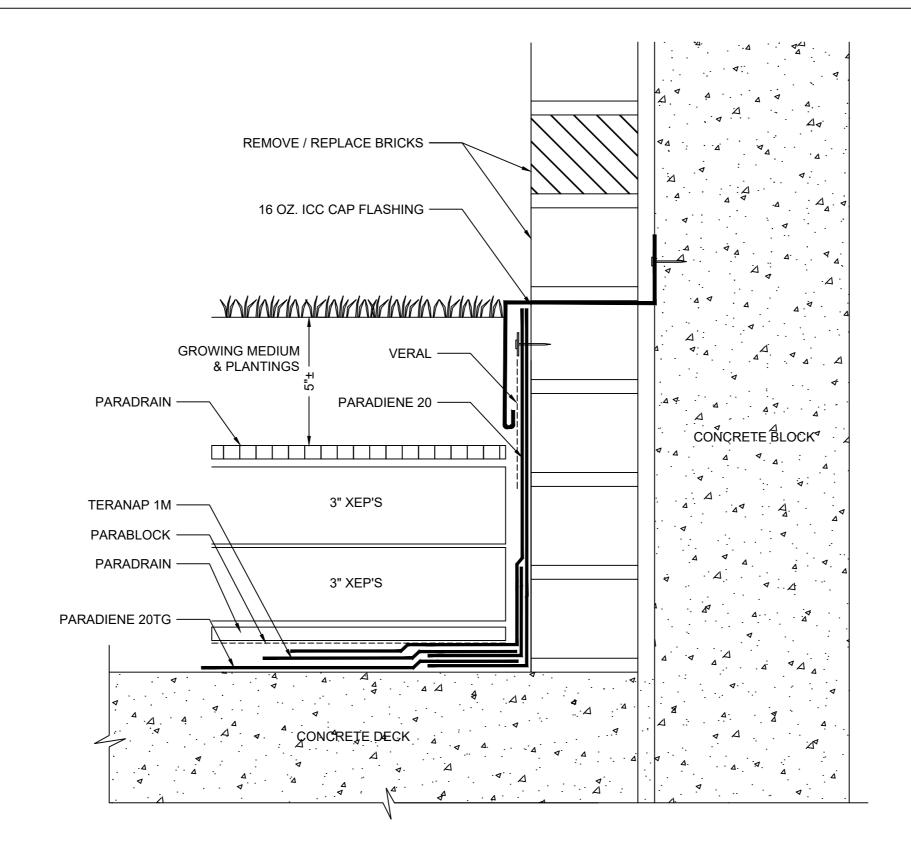




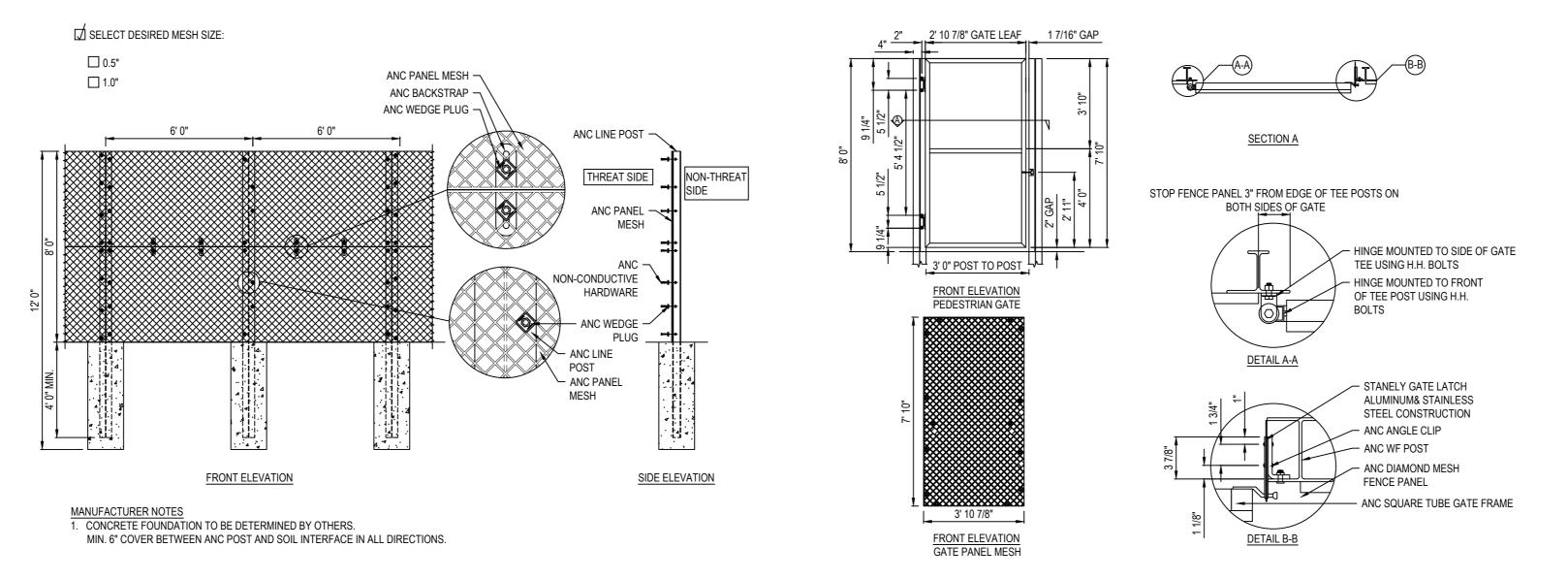
### NOTES:

- 1. ALL SPLICE INTERSECTIONS MUST BE OVERLAID WITH TWO LAYERS OF PRESSURE-SENSITIVE
- 2. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE COVERING 1/2" (13mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION AND OVERLAY WITH A 6"X6" (152X152mm) T-JOINT COVER. A SECOND LAYER OF 12"X12" (305X305mm) PRESSURE-SENSITIVE T-JOINT COVER IS REQUIRED.
- 3. BOTH LAYERS SHALL BE CENTERED OVER THE SPLICE INTERSECTION AND SEALED WITH CONTINUOUS LAP SEALANT.

MEMBRANE SPLICE (25 / 30 YEAR WARRANTIES)

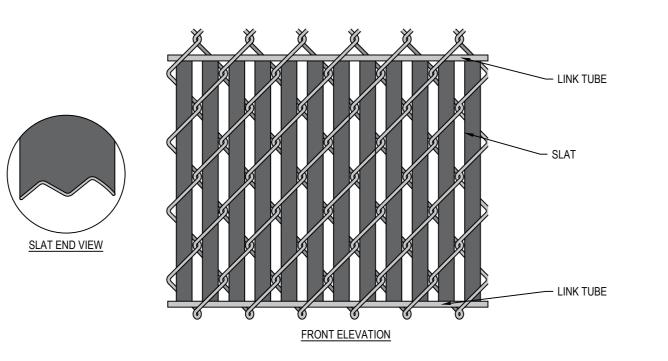


WALL FLASHING N.T.S.



PEDESTRIAN GATE

8' TALL, PANEL SYSTEM



SLAT SYSTEM





CIARCIA

ROSION

BURIED FABRIC



 GATHER EXCESS AT CORNERS

STAKE -

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.

2"X4" WOOD FRAME

DROP INLET

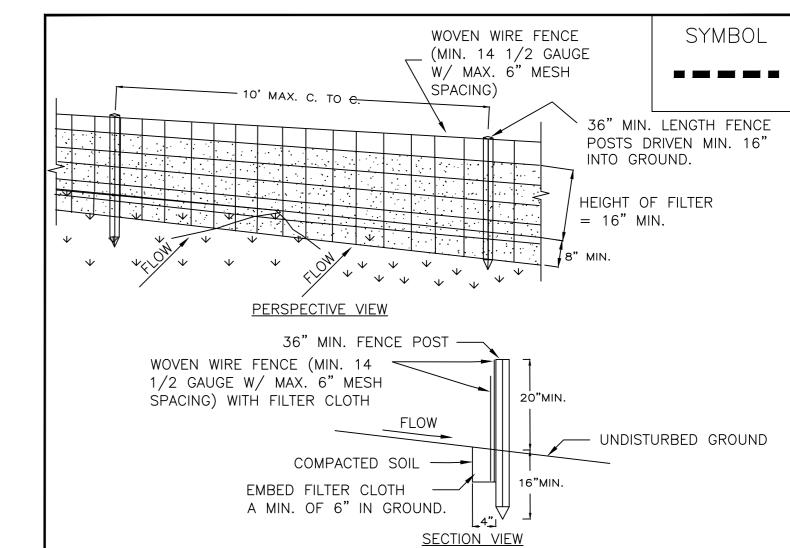
WITH GATE

- 2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- 3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
- 4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- 6. A 2"  $\times$  4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY. MAXIMUN DRAINAGE AREA 1 ACRE

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

FILTER FABRIC DROP INLET



### CONSTRUCTION SPECIFICATIONS

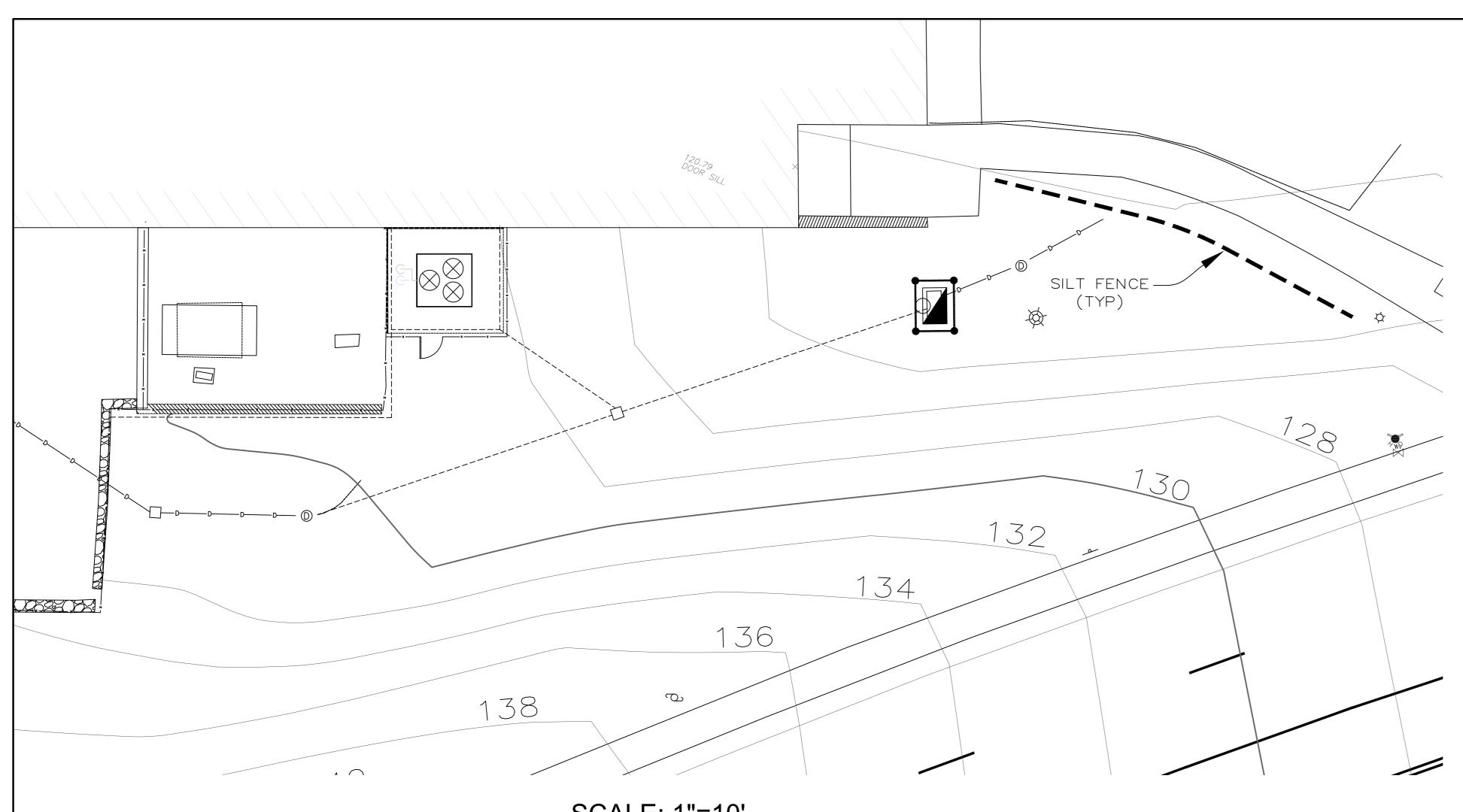
- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- 2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

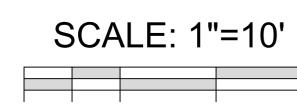
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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SILT FENCE

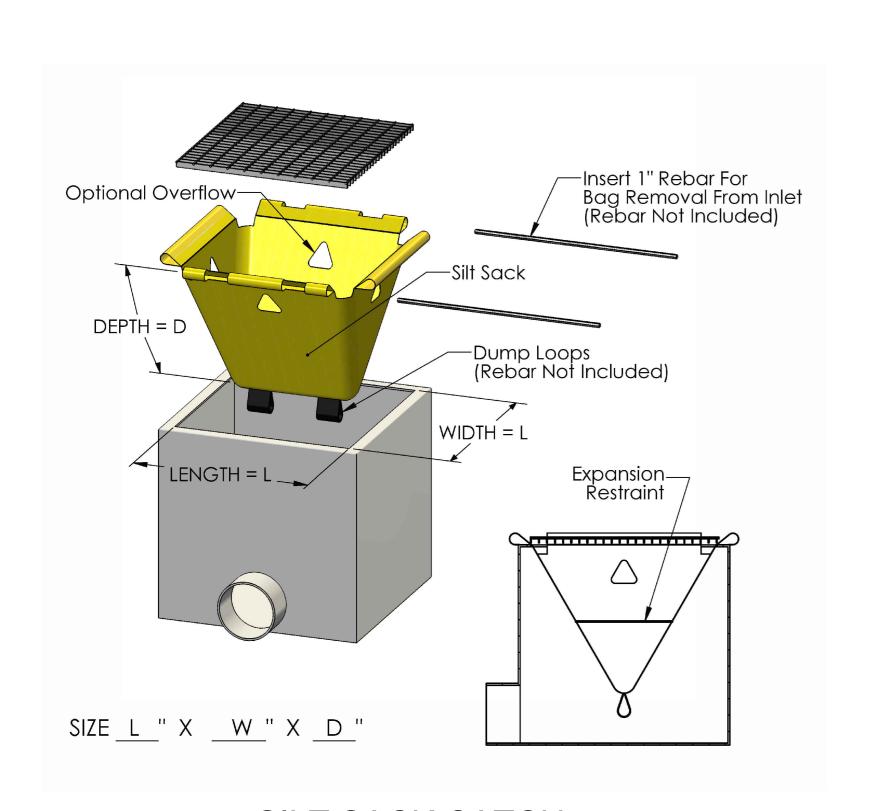
**Call** before you dig. UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.





### **EROSION CONTROL NOTES:**

- 1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE
- 2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PROCEDURES SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE DOCUMENT ENTITLED "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR
- 3. PRIOR TO ANY EXCAVATION, SILT FENCE SHALL BE INSTALLED AT THE APPROPRIATE LOCATIONS NOTED ON EROSION CONTROL PLAN. SILT FENCING SHALL BE INSTALLED AS DIRECTED BY THE OWNER'S REPRESENTATIVE IN THE FIELD AND INSTALLED AS PER THE INSTRUCTIONS OF THE MANUFACTURER. ADDITIONAL SILT FENCE MAY BE PLACED BY THE OWNER'S REPRESENTATIVE IN THE FIELD. SILT FENCING SHALL BE MAINTAINED IN OPERABLE CONDITION AND SHALL NOT BE REMOVED UNTIL DISTURBED AREAS ARE THOROUGHLY
- 4. IMMEDIATELY TOPSOIL & SEED WITH A MIXTURE OF PERENNIAL RYE GRASS, ANNUAL RYE GRASS AND WINTER RYE AND MULCH WITH 6" OF HAY ALL FINISHED SLOPES AND ALL ROUGH CUT SLOPES TO REMAIN OPEN FOR
- 5. ALL SLOPES CONSTRUCTED WITH FILL MATERIAL AND ALL SLOPES WITH GRADE 3:1 OR STEEPER SHALL BE TOPSOILED, SEEDED, MULCHED AND STABILIZED WITH STAKED TOBACCO NETTING, UNLESS OTHERWISE NOTED.ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED.
- 6. IN ADDITION TO ALL SPECIFIED AND LOCATED EROSION CONTROL DEVICES, THE CONTRACTOR SHALL TAKE ALL STEPS PRUDENT AND NECESSARY TO STABILIZE THE SITE AT ALL TIMES.
- 7. DO NOT STOCKPILE MATERIALS ON STEEP SLOPES, IN DRAINAGE SWALES OR IN WETLAND AREAS. SURROUND ALL STOCKPILE AREAS WITH STAKED HAYBALES OR SILT SCREEN MATERIALS. 8. UTILITY LINE EXCAVATED MATERIAL SHALL BE TEMPORARILY STOCKPILED ON HIGH SIDE OF EXCAVATION SO RUNOFF IS DIRECTED AWAY FROM TRENCH. AFTER BACK—FILLING, AREA IS TO BE TOPSOILED, SEEDED AND MULCHED.
- 9. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE—HALF THE HEIGHT OF THE BARRIER. SEDIMENT SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ADDITIONAL EROSION



SILT SACK CATCH BASIN PROTECTION

HVAC NOTES	GENERAL NOTES		LEGEND
UPON COMPLETION OF ALL WORK, ALL EQUIPMENT AND PIPE SHALL BE THOROUGH Y OF FAMER AND LEFT IN FIRST CLASS CONDITION.  THOROUGH Y OF FAMER AND LEFT IN FIRST CLASS CONDITION.	1. AT A MINIMUM, ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, NYS BUILDING CODE, NYS MECHANICAL CODE, 2020 NYS ENERGY CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING	SYMBOL	DESCRIPTION
THOROUGHLY CLEANED AND LEFT IN FIRST CLASS CONDITION.  2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EQUIPMENT	JURISDICTION OVER THE WORK. IF THE CONTRACT DOCUMENT SHOW DIFFERENT THAN THE CODE, THE MORE STRINGENT SHALL APPLY.		EXISTING WORK / BY OTHERS
UNDER THIS SECTION UNTIL FINAL ACCEPTANCE BY THE ENGINEER.	2. PIPING IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING SHALL BE DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER.		WORK TO BE PROVIDED
3. ALL EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH ALL APPLICABLE CODES, MANUFACTURER SPECIFICATIONS, AND TO THE SATISFACTION OF THE ENGINEER.	3. THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.	11111	WORK TO BE REMOVED
4. CONTRACTOR SHALL PROVIDE ALL CONTROLS, AND CONTROL WIRING AS REQUIRED FOR COMPLETE CONTROL OF EQUIPMENT FOR A COMPLETE	4. ALL WORK SHOWN ON ALL DRAWINGS SHALL BE PROVIDED UNLESS OTHERWISE NOTED.	———э	PIPE TURNING DOWN
FUNCTIONING SYSTEM AS SPECIFIED. CONTRACTOR SHALL TIE AIR COOLED CHILLER INTO EXISTING BAS LOCATED IN MECHANICAL ROOM.	5. THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING TO MATCH EXISTING AS REQUIRED FOR THE INSTALLATION OF WORK.		PIPE TURNING UP
5. INSTALL ALL REQUIRED APPURTENANCES PER CODE WHETHER SPECIFIED OR NOT FOR COMPLETE FUNCTIONING SYSTEMS.	6. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND ALL NEWLY INSTALLED WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS AND OWNERS EQUIPMENT, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE SIGNAGE, BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.		CHILLED WATER SUPPLY PIPE
6. CONTRACTOR TO BLEED ENTIRE AIR COOLED CHILLER SYSTEM BEFORE CONSTRUCTION STARTS. CONTRACTOR SHALL CONTACT THE OWNER ONE WEEK	7. WHERE WELDING OR OPEN FLAME IS USED FOR CUTTING, SOLDERING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AND A FIRE WATCH IN PROXIMITY OF WORK AREA.		CHILLED WATER RETURN PIPE
BEFORE SYSTEM IS BLED. ONCE CONSTRUCTION IS COMPLETED AND SYSTEM IS READY TO BE TESTED, CONTRACTOR SHALL FILL SYSTEM WITH WATER.	8. ALL WORK SHALL BE COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THIS PROJECT.	<u> </u>	GATE VALVE
7. CONTRACTOR IS RESPONSIBLE FOR RE-BALANCING AIR-COOLED CHILLER SYSTEM AFTER INSTALLATION. EXISTING CHILLED WATER PUMP HAS BEEN ASSUMED	9. THE CONTRACTOR SHALL FILE PLANS WITH THE GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.	ф	BALL VALVE
ADEQUATE FOR THE CHANGE IN CONFIGURATION.	10. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT IN		PRESSURE GAGE
	WRITING TO OWNER STATING THE SAME. EQUIPMENT WARRANTEES OF A LONGER DURATION SHALL APPLY.		FLEX CONNECTION
	11. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	-3-	Y-STRAINER
	12. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.	•	LIMIT OF DEMOLITION
	13. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND IN ACCORDANCE WITH BEST TRADE PRACTICES.	•	POINT OF CONNECTION
	14. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND SIGNED BY THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER OR FOUND TO BE DEFECTIVE IN ANY WAY SHALL BE REPLACED BY	AHU	AIR HANDLER UNIT
	THE CONTRACTOR AT HIS OWN EXPENSE.	BAS	BUILDING AUTOMATION SYSTEM
	15. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.	CFM	CUBIC FEET PER MINUTE
	16. ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8AM TO 5PM MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE OWNER. WORKING HOURS MUST BE COORDINATED WITH GENERAL CONTRACTOR.	CHWS/R	CHILLED WATER SUPPLY/RETURN
	HOWEVER, THE CONTRACTOR MAY WORK EXTRA HOURS AS NEEDED TO COMPLETE THE CONTRACT SCOPE OF WORK AND MEET THE COMPLETION DATE AT NO ADDITIONAL COST TO OWNER, AS LONG AS OWNER HAS BEEN PROPERLY NOTIFIED AND HAS APPROVED SAME.	(E)	EXISTING
	7. NO SYSTEM OR EQUIPMENT SHALL BE SHUT DOWN WITHOUT PERMISSION OF THE FACILITIES OPERATION MANAGER OR OWNERS DESIGNATED	EAT	ENTERING AIR TEMPERATURE
	REPRESENTATIVE. ADEQUATE NOTICE SHALL BE GIVEN TO THE FACILITIES OPERATION MANAGER IN WRITING WHEN SYSTEM SHUTDOWN INVOLVES A TEMPORARY DISRUPTION TO BUILDING SERVICES	EWT	ENTERING WATER TEMPERATURE
	18. ANY DISRUPTION IN BUILDING SERVICES SHALL BE KEPT TO A MINIMUM AND SHALL NOT BE IMPLEMENTED WITHOUT RECEIVING PRIOR WRITTEN APPROVAL OF THE FACILITIES OPERATION MANAGER.	F	FAHRENHEIT
	19. ALL WORK SHALL BE COORDINATED WITH THE FACILITIES OPERATIONS MANAGER AND COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THE PROJECT.	FT H20	FOOT OF WATER COLUMN
	20. ROUGH PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK UNLESS OTHERWISE NOTED AND SHALL MATCH	GPM	GALLONS PER MINUTE
	EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER. FINAL PATCHING AND PAINTING SHALL BE PERFORMED BY GENERAL CONTRACTOR.	(IN)	INCHES
	21. LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING POLYETHYLENE BARRIERS OR TARPAULINS AND EXHAUST TO CONTAIN AIRBORNE	LBS	POUNDS
	MATERIALS.	LWT	LEAVING WATER TEMPERATURE
	22. THE CONTRACTOR SHALL SUBMIT DIGITAL COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT, PIPING, AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK, WITHIN TWO WEEKS AFTER AWARD OF CONTRACT. SHOP DRAWINGS SHALL INDICATE ALL TECHNICAL DATA, STRUCTURAL MEMBERS, WALLS, FLOORS, DUCTWORK, ETC., WITH ELEVATIONS AT WHICH NEW WORK IS TO BE	MCA	MINIMUM CIRCUIT AMPACITY
	INSTALLED. ANY DEVIATION IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND OWNER. THE ENGINEER SHALL REVIEW AND TURN AROUND SHOP DWGS. WITHIN (7) DAYS OF RECEIPT OF SAME.	МОСР	MAXIMUM OVER CURRENT PROTECTION
	23. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF CONTRACT DRAWINGS.	TYP.	TYPICAL
	24. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.	CH #	DENOTES AIR COOLED CHILLER
	25. ALL WORK SHOWN ON ALL DRAWINGS SHALL BE PROVIDED UNLESS OTHERWISE NOTED.		
	26. ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.		
	27. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK.		
	28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK, AND OTHER PROPERTY.		

ALL WORK IS TO BE PROVIDED UNLESS OTHERWISE NOTED

TO THE BEST OF MY KNOWLEDGE AND PROFESSIONAL JUDGEMENT, THESE PLANS & SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE				
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.				
ONLY COPIES FROM THE ORIGINAL OF THIS DRAWING THAT ARE MARKED WITH THE ORIGINAL SEAL AND SIGNATURE OF THE ENGINEER SHALL BE CONSIDERED AS TRUE VALID COPIES.				
	NO.	DATE	REVISION	BY





	OSSINING CHILLER REPLACEMENT
	95 BROADWAY OSSINING, NEW YORK
PROJECT	DEDLACEMENT OF CHILLED

REPLACEMENT OF CHILLER
AT JOSEPH G. CAPUTO COMMUNITY CENTER

MECHANICAL GENERAL NOTES AND LEGENDS

AS NOTED 11/03/2021 CHECKED BY JSR / GRL

	AIR COOLED CHILLER SCHEDULE																							
UNIT NO. SERVICE	CAPACITY	CHILLER PRESSURE DROP	EFFICIENCY WITHOUT		EVAPORATOR			CONDENSER		COMPRESSOR		ELECTRICAL			PHYSICAL CHARACTERISTICS			s	MANUFACTURER MODI	MODEL				
	SERVICE	(TONS)	(FT H20)	PUMP (EER) (BTU/W)	FLUID TYPE	EWT (F)	LWT (F) PRESSURE DROP NUMBER OF AIRFLOW (CFM) FANS (CFM) FANS (CFM) TYPE QUANTITY REFRIGERANT VOLTS/PHAS	VOLTS/PHASE	MCA	МОСР	WEIGHT (LBS)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	MANUFACTURER	MODEL								
CH 1	CHILLED WATER AIR HANDLERS	35.69	9.44	10.70	WATER	54	44	85.35	6.19	3	29,600	95	SCROLL	2	R-410A	208/3	165.4	200	2,163	89	93	67	CARRIER	30RAP035

NEW

CONCRETE

EXISTING

CONCRETE

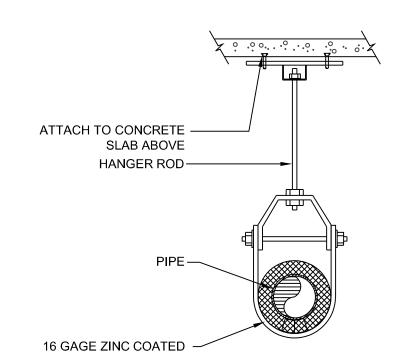
S.S. AND NEOPRENE

WALL PENETRATION

DOUBLE LINK-SEAL

SEALS (TYP.)

- PROVIDE UNIT WITH DISCONNECT SWITCH
- CONTRACTOR SHALL PROVIDE EQUIPMENT PAD FOR CHILLER TO BE MOUNTED ON. REFER TO S-1 FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL CONNECT UNIT TO EXISTING BAS SYSTEM FOR CONTROL APPROVED EQUAL MANUFACTURERS AS LISTED IN SPECIFICATION SHALL FIT ON EQUIPMENT PAD AND EQUIPMENT PAD SHALL BE ABLE TO WITHSTAND WEIGHT. REFER TO S-1 FOR SIZE OF PAD



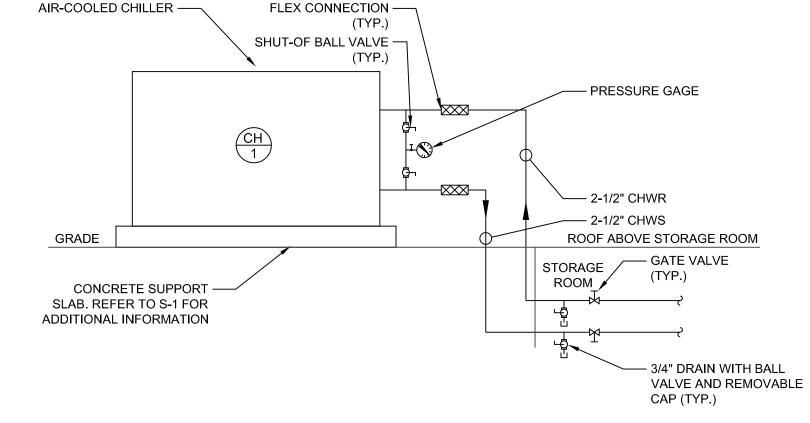
STEEL SADDLE 12" LONG

### **INSULATED PIPE** W/ VAPOR BARRIER

### TYPICAL CLEVIS HANGER SUPPORT

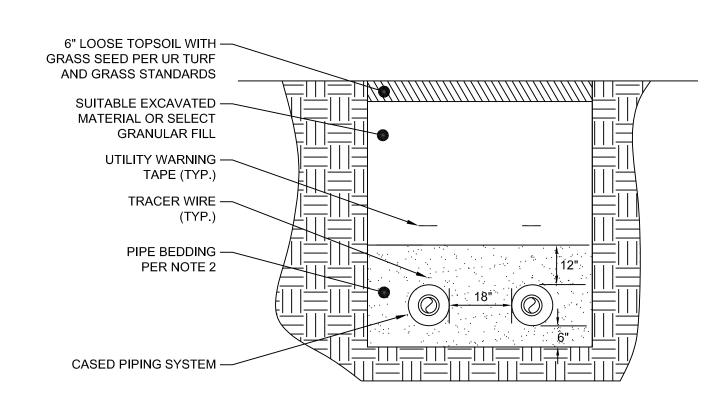
### INDIVIDUAL PIPE HANGER ROD AND SPACING SCHEDULE NOMINAL PIPE OR TUBE 3/4 | 1 | 1 1/2 | 2 | 2 1/2 | SIZE - INCHES HANGER ROD SIZES -3/8 3/8 3/8 3/8 1/2 INCHES MAXIMUM SPACING BETWEEN PIPE SUPPORTS - FEET MAX. SPACING BETWEEN CU. TUBE SUPPORTS - FEET NOTES: TRAPEZE HANGER SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE. TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF SAFETY OF 5 FOR CENTER OF SPAN CONCENTRATED LOAD.

## PIPE SUPPORT DETAIL



# AIR COOLED CHILLER PIPE CONNECITON DETIAL

NO SCALE



- 1. ALL SUB-GRADES SHALL BE COMPACTED TO 95% MODIFIED PROCTOR PRIOR TO PLACEMENT OF PIPE BEDDING MATERIALS.
- 2. PIPE SHALL BE BEDDED IN A MINIMUM OF 6" SAND BEDDING MATERIAL AS PER NYSDOT 703.06-CUSHION SAND. SAND SHALL ENCAPSULATE PIPE SECTION ALL AROUND. BEDDING MATERIAL ZONE SHALL EXTEND 12" ABOVE TOP OF PIPE. ALL
- SAND BEDDING SHALL BE COMPACTED TO 95% MODIFIED PROCTOR. 3. FILL MATERIAL ABOVE PIPE ZONE SHALL BE SUITABLE EXCAVATED MATERIAL. ALL FILL MATERIAL ABOVE PIPE BEDDING ZONE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR. LEVEL OF COMPACTION SHALL BE DETERMINED BY LABORATORY TESTING OR NUCLEAR DENSITY TESTING, OR OTHER SUITABLE
- MEANS AS DETERMINED BY THE CONTRACT DOCUMENTS. 4. TRACER WIRE SHALL BE INSTALLED ABOVE EACH PIPE IN THE TRENCH, ORIENTED ALONG THE CENTER LINE OF THE PIPE. TRACER WIRE SHALL BE A MINIMUM OF 10 AWG INSULATED COPPER WIRE.
- 5. UTILITY MARKING TAPE, BLUE IN COLOR READING: "CHILLED WATER" IN BLACK LETTERS, SHALL BE INSTALLED IMMEDIATELY ABOVE PIPE BEDDING ZONE.
- 6. RESTORATION OF GRADE SURFACES SHALL MEET, AT A MINIMUM, THE
- REQUIREMENTS OUTLINED IN THE DETAIL.
- 7. CHILLED WATER PIPING SHALL MAINTAIN A SEPARATION OF 18" MINIMUM.
- 8. CLEAR SPACE BETWEEN THE PIPING AND THE TRENCH WALL SHALL BE MINIMUM

# UNDERGROUND CHILLED WATER TRENCH DETAIL

NO SCALE

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	ENGINEER SHALL BE CONSIDERED AS TRUE VALID COPIES.		DATE	REVISION	BY

PIPE PENETRATION DETAIL FOR

WALLS 12" THICK AND GREATER

WATER STOP AND —

ANCHOR COLLAR

EPOXY COATED

CARRIER LINE

DOUBLE LINK-SEAL

TYPE WALL SLEEVE

APPLY BITUMINOUS

REINFORCING BARS

AND LINKS SEALS

NO SCALE

COATING TO EXPOSED CUT

CORE DRILL CONCRETE

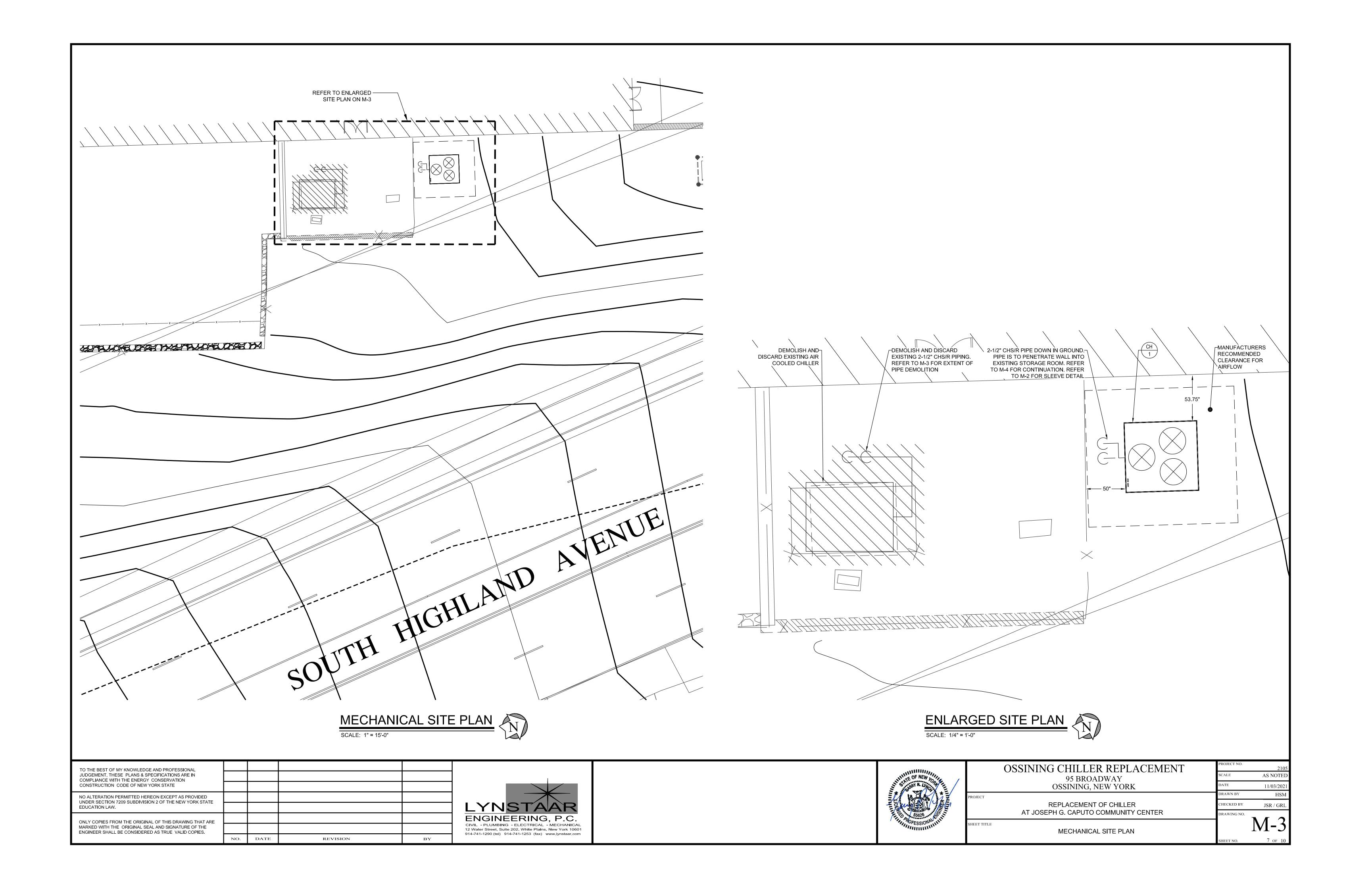
DIAMETER SIZE FOR PIPE

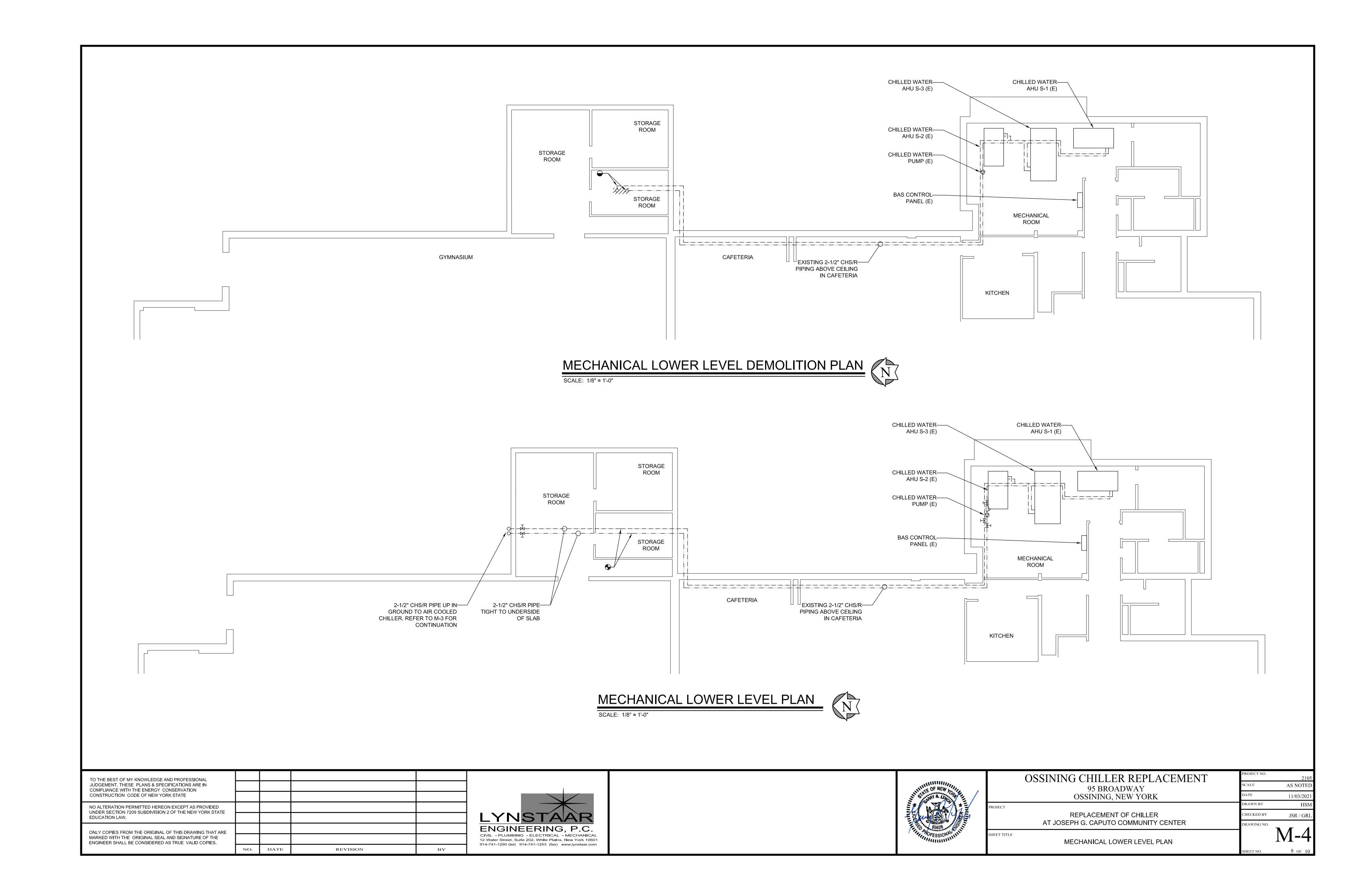




	OSSINING CHILLER REPLACEMENT	PROJECT NO.	2105
	95 BROADWAY	SCALE	AS NOTED
	OSSINING, NEW YORK	DATE	11/03/2021
PROJECT		DRAWN BY	HSM
	REPLACEMENT OF CHILLER	CHECKED BY	JSR / GRL
	AT JOSEPH G. CAPUTO COMMUNITY CENTER	DRAWING NO.	7.50
SHEET TITLE	MECHANICAL DETAILS AND SCHEDULES		M-2

MECHANICAL DETAILS AND SCHEDULES





### **GENERAL NOTES:**

- 1. ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE OF THE STATE OF NEW YORK AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK.
- 2. THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL.
- 3. THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- 4. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
- 5. NO SYSTEM SHALL BE SHUT DOWN WITHOUT PERMISSION OF THE OWNER/OWNER. ADEQUATE NOTICE SHALL BE GIVEN TO THE OWNER/OWNER. WHEN SYSTEM SHUTDOWN INVOLVES A TEMPORARY DISRUPTION TO SERVICES.
- 6. ANY DISRUPTION IN SERVICES SHALL BE KEPT TO A MINIMUM AND SHALL NOT BE IMPLEMENTED WITHOUT RECEIVING PRIOR WRITTEN APPROVAL OF THE OWNER/OWNER.
- 7. ALL WORK SHALL BE COORDINATED WITH THE OWNER AND ALL TRADES RELATED TO THE INSTALLATION OF THIS PROJECT.
- 8. THE CONTRACTOR SHALL TURN OVER TO THE OWNER AT THE COMPLETION OF ALL WORK, THREE (3) COPIES IN BOUND FORM OF OPERATING, MAINTENANCE, AND INSTRUCTION MANUALS WHICH SHALL INCLUDE ALL EQUIPMENT BROCHURES, PIPING AND WIRING DIAGRAMS, DRAWINGS, TEMPERATURE CONTROLS, AND STARTUP AND SHUTDOWN PROCEDURES OF ALL NEWLY INSTALLED EQUIPMENT.
- 9. THE CONTRACTOR SHALL FILE PLANS WITH GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
- 10. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE OWNER STATING SAME.
- 11. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 12. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- 13. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMAN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS.
- 14. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER OR THE OWNER/OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR OWNER/OWNER OR FOUND TO BE DEFECTIVE OR OF POOR QUALITY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 15. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS.
- 16. ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8 A.M. TO 5 P.M. MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE OWNER/OWNER. HOWEVER, THE CONTRACTOR MAY WORK EXTRA HOURS AS NEEDED TO COMPLETE THE CONTRACT SCOPE OF WORK AND MEET THE COMPLETION DATE AT NO ADDITIONAL COST TO OWNER, AS LONG AS THE OWNER/OWNER HAS BEEN PROPERLY NOTIFIED AND HAS APPROVED SAME.
- 17. PATCHING & REPAIR OF CONCRETE, SIDEWALK OR GROUND, ETC. SHALL BE BY TRADE WHO PERFORMED WORK AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER.
- 18. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER/OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
- 19. ALL WORK SHOWN ON ALL DRAWINGS IS NEW UNLESS OTHERWISE NOTED.

TO THE BEST OF MY KNOWLEDGE AND PROFESSIONAL JUDGEMENT, THESE PLANS & SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

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

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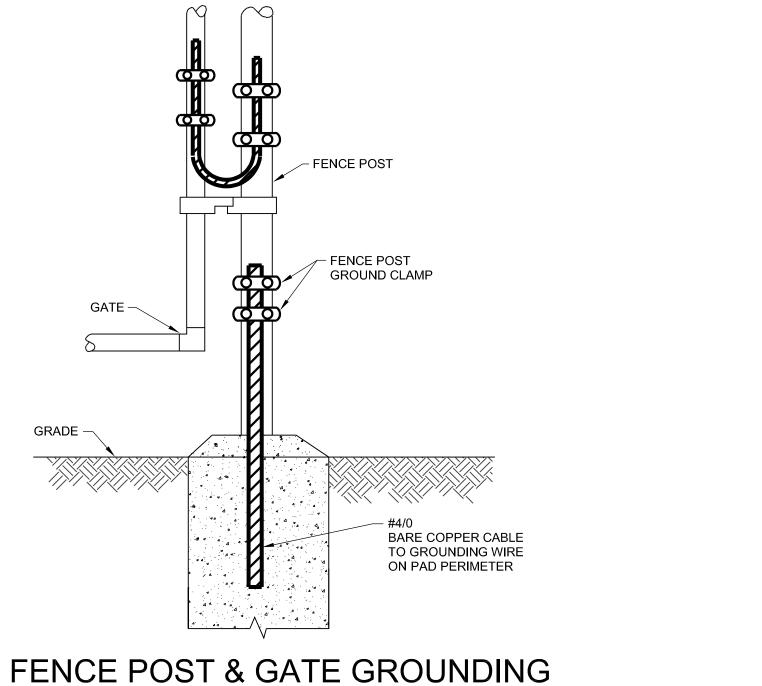
ENGINEER SHALL BE CONSIDERED AS TRUE VALID COPIES.

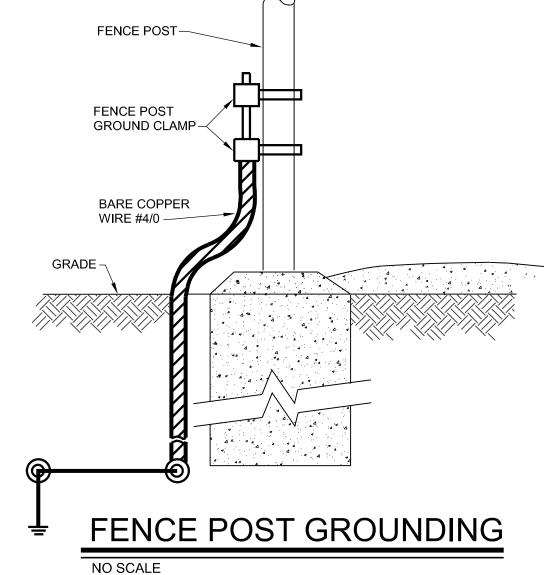
EDUCATION LAW.

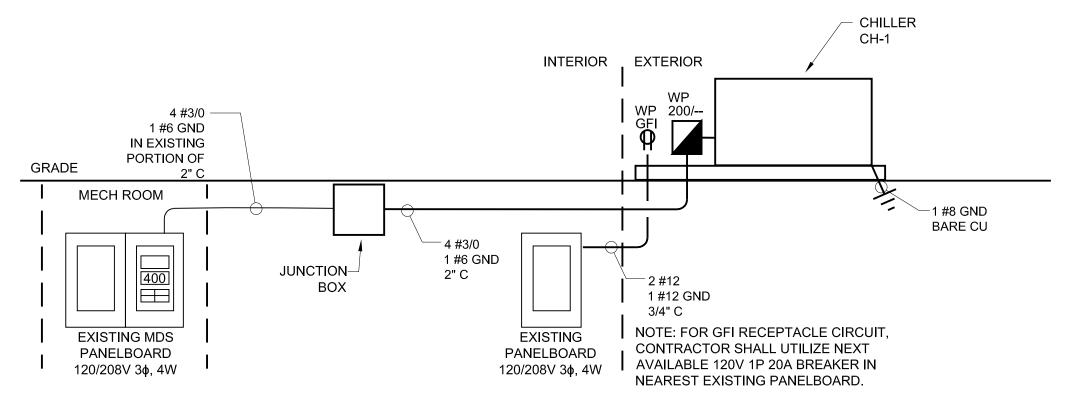
- 20. ALL DOWNSTREAM DEVICES AND EQUIPMENT WHICH BECOME DISCONNECTED DURING THIS CONSTRUCTIONS SHALL BE RECONNECTED AT NO COST TO THE OWNER. PROVIDE ALL CONDUIT AND WIRE AS REQUIRED
- 21. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF THE WORK.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING REASONABLE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK AND OTHER PROPERTY.

DATE

REVISION



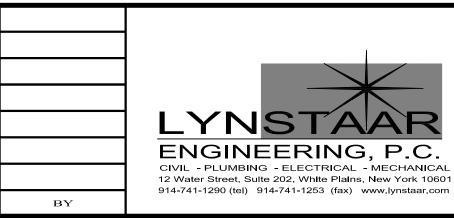




### NOTES:

- 1. REPLACE EXISTING FUSES IN EXISTING 400A SWITCH PREVIOUSLY SERVING CHILLER WITH 200A FUSES.
- 2. FEEDERS SERVING CHILLER SHALL BE RUN IN EXISTING PORTION OF CONDUIT AS INDICATED. PROVIDE JUNCTION BOX AND EXTEND FEEDER AND CONDUIT TO CHILLER AS REQUIRED.

# POWER SINGLE LINE DIAGRAM



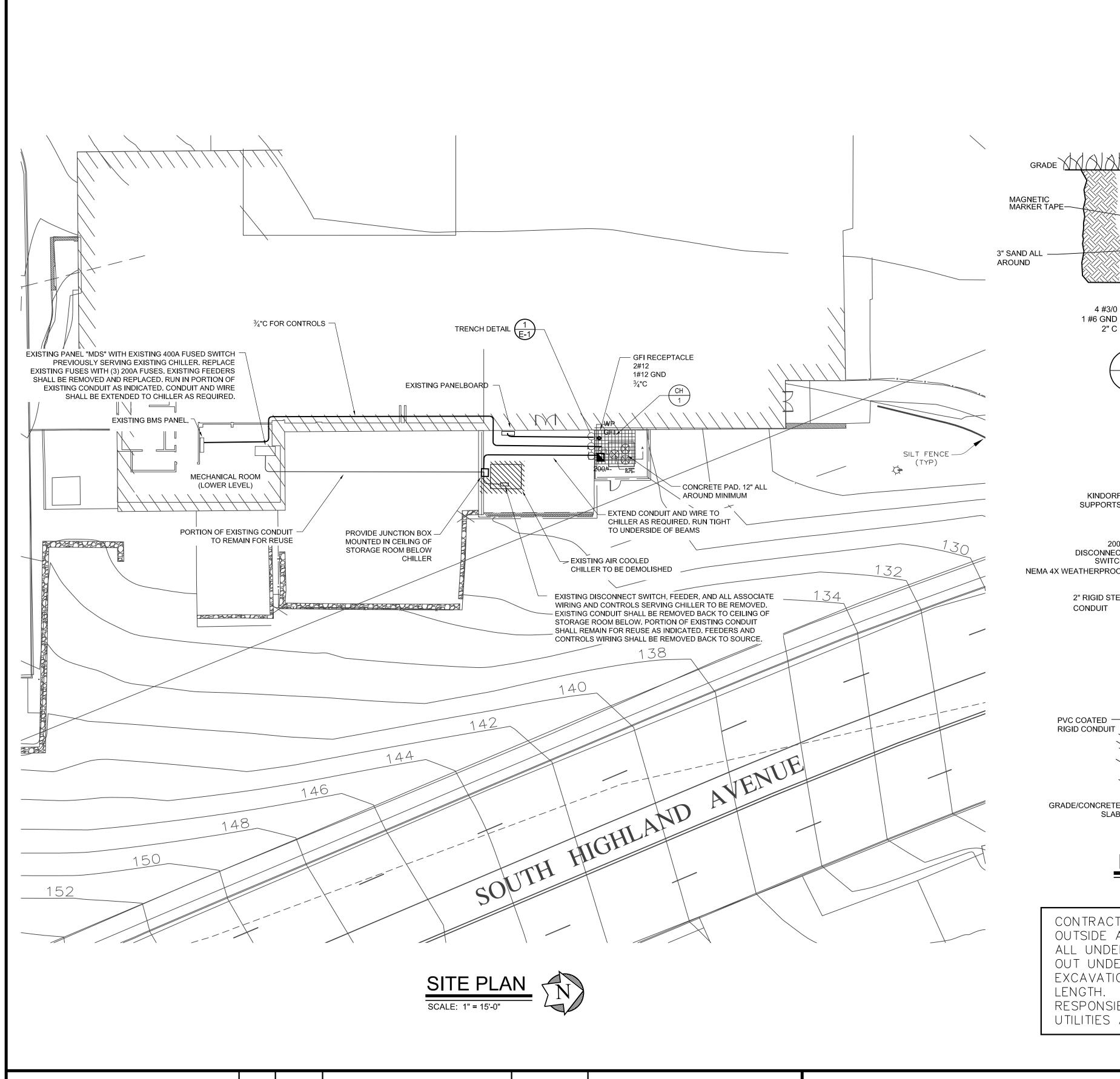
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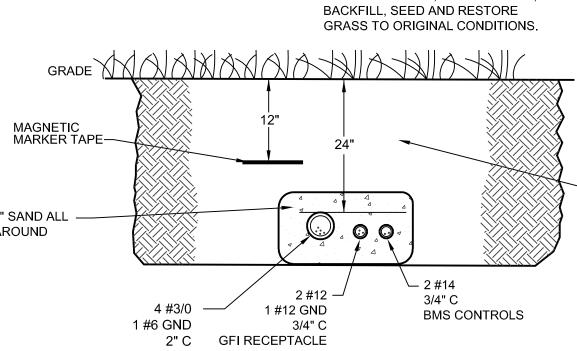


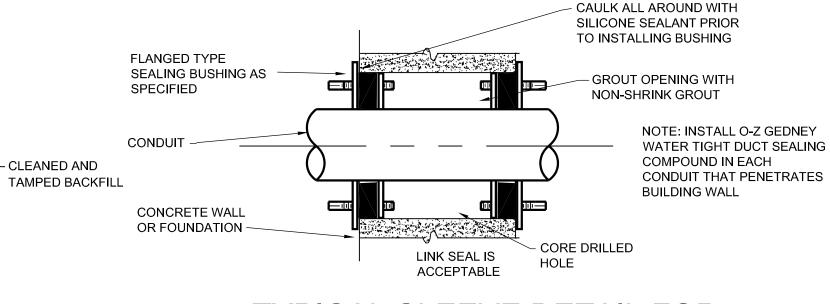
	OSSINING CHILLER REPLACEMENT	PROJECT NO.	2105
	95 BROADWAY	SCALE	AS NOTED
	OSSINING, NEW YORK	DATE	11/03/2021
PROJECT		DRAWN BY	BG
	REPLACEMENT OF CHILLER	CHECKED BY	JGD
	AT JOSEPH G. CAPUTO COMMUNITY CENTER	DRAWING NO.	<b>T</b> 4
SHEET TITLE	ELECTRICAL NOTES, DETAILS, LEGEND AND DIAGRAM		E-1
		SHEET NO.	9 of 10

LEGEND									
SYMBOL	DESCRIPTION								
	EXISTING EQUIPMENT, DEVICE, CONDUIT, ETC.								
	EXISTING EQUIPMENT, DEVICE, CONDUIT, ETC. TO BE REMOVED								
	EQUIPMENT, DEVICE, CONDUIT, ETC. TO BE PROVIDED								
30A/3P	30 AMP, 3 POLE CIRCUIT BREAKER								
M	METER								
$\downarrow$	CURRENT TRANSFORMER								
	PANELBOARD								
J	JUNCTION BOX								
200/-	DISCONNECT SWITCH - FRAME/FUSE								
///_	CIRCUIT HOMERUN (120V) TO PANELBOARD								
	WIREWAY - CROSSLINES INDICATE NUMBER OF CONDUCTORS WHERE MORE THAN TWO								
-××	FENCE								

NOTE: ALL WORK IS NEW UNLESS OTHERWISE NOTED.







1 TRENCH DETAIL

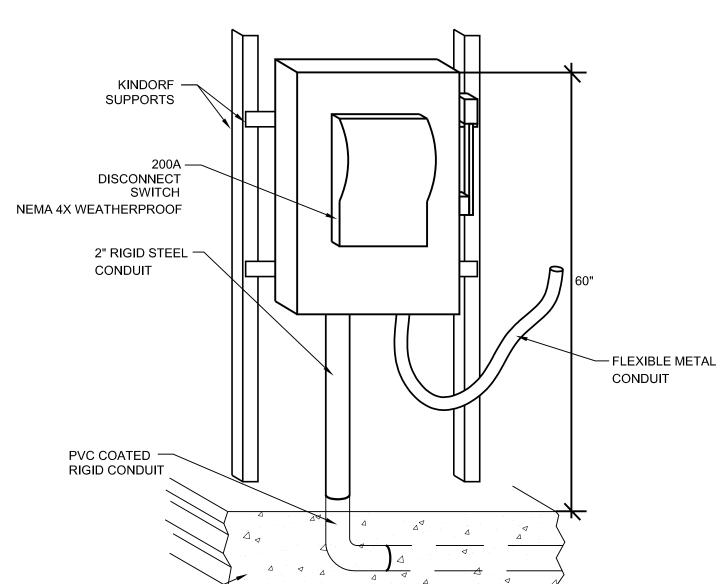
1 NO SCALE

NOTE: EXCAVATE, REMOVE ROCK,

TYPICAL SLEEVE DETAIL FOR

EXISTING WALL PENETRATION

NO SCALE



# DISCONNECT SWITCH DETAIL

NO SCALE

CONTRACTOR TO HIRE SERVICES OF OUTSIDE AGENCY FOR MARKING OUT ALL UNDERGROUND UTILITIES. MARK OUT UNDER AND 6'-0" BOTH SIDES OF EXCAVATION AREA AND ENTIRE LENGTH. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED UTILITIES AND COST FOR THE REPAIRS.

					_
TO THE BEST OF MY KNOWLEDGE AND PROFESSIONAL JUDGEMENT, THESE PLANS & SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE					] ]
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	NO.	DATE	REVISION	вч	





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	95 BROADWAY	SCALE	AS NOTED
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	AT JOSEPH G. CAPUTO COMMUNITY CENTER	DRAWING NO.	
SHEET TITLE	ELECTRICAL SITE PLAN AND DETAILS		E-2
		SHEET NO	10 OF 10