

SLUDGE HANDLING IMPROVEMENTS

WATER POLLUTION CONTROL FACILITY · PUTNAM · CONNECTICUT
SEPTEMBER 2026

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LOCATION MAP
SCALE: 1" = 200'

PREPARED BY

**FUSS &
O'NEILL**

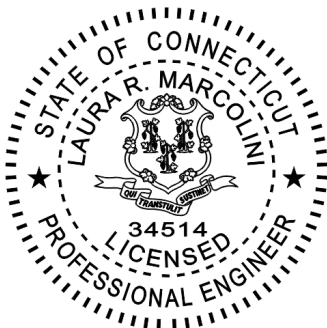
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PREPARED FOR

TOWN OF PUTNAM
MAYOR - NORMAN B. SENEY
200 SCHOOL STREET
PUTNAM, CT 06260

PREPARED FOR

WATER POLLUTION CONTROL AUTHORITY
SUPERINTENDENT - BRIAN LYNCH
4 KENNEDY DRIVE
PUTNAM, CT 06260



PROJ. No.: 1998386.P91
DATE: SEPTEMBER 2026

GI-001

File: J:\DWG\1989386\191Civil\Plant\1989386P91_COV01.dwg Layout: GI-002 Plotted: 2026-09-11 12:09 PM Saved: 2026-09-02 3:41 PM User: Albert.Wait
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CIVIL GENERAL NOTES

GENERAL

- 1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- 2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
- 3. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
- 4. BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY BOUNDARIES LLC, AND FROM PLANS OF RECORD. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY BOUNDARIES LLC. DURING MARCH 18TH 2025.
- 6. TOPOGRAPHIC ELEVATIONS ARE BASED ON NORTH AMERICAN 1983 DATUM (NAD83).
- 7. GEOTECHNICAL DATA INCLUDING TEST PIT AND BORING LOCATIONS AND ELEVATIONS WERE OBTAINED FROM CLARENCE WELT ASSOC., INC.
- 8. WETLANDS WERE DELINEATED BY IAN T. COLE ON MARCH 18TH 2025.

WORK RESTRICTIONS

- 1. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
- 2. WORK IS RESTRICTED TO THE HOURS OF 6AM TO 2PM ON MONDAY THROUGH FRIDAY.

REGULATORY REQUIREMENTS

- 1. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
- 2. WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS.
- 3. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 4. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- 5. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

EROSION AND SEDIMENT CONTROL

- 1. INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE. REFER TO THE EROSION AND SEDIMENT CONTROL DRAWINGS.
- 2. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
- 3. INSPECT AND MAINTAIN EROSION CONTROL MEASURES PER THE SCHEDULE IN THE EROSION AND SEDIMENT CONTROL DRAWINGS. DISPOSE OF SEDIMENT IN AN UPLAND AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 4. PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.
- 5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.
- 6. ADDITIONAL NOTES AND DETAILS ARE PROVIDED ON SHEET CD-101.

DEMOLITION

- 1. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS, UNLESS OTHERWISE NOTED.

CONSTRUCTION LAYOUT

- 1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
- 2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
- 3. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
- 4. DIMENSIONS ARE FROM FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS NOTED OTHERWISE.

- 5. BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

EARTHWORK

- 1. EXCAVATE TEST PITS AS INDICATED ON THE DRAWINGS TO PROPOSED SUBGRADE ELEVATION. TEST PITS SHALL HAVE AN OPEN CROSS-SECTIONAL AREA LARGE ENOUGH TO PERMIT EFFICIENT EXCAVATION AND SHORING/LINING, ENGINEERING AND GEOLOGICAL INSPECTION AND PHOTOGRAPHING OF THE SUBSURFACE SOILS AND MANUAL UNDISTURBED SAMPLING FROM WITHIN THE TEST PIT. ALL TEST PITS SHALL BE EXCAVATED, DEWATERED (IF NECESSARY), SHORED/LINED AND PROTECTED FROM SURFACE WATER DRAINAGE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, LOCAL, CORPS OF ENGINEERS, AND OSHA SAFETY REGULATIONS.
 - 1.1. ALLOW FOR TEST PIT LOGGING AND SAMPLING BY THE ENGINEER.
- 2. NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION. CT: "CALL BEFORE YOU DIG" AT 1-800-922-4455. OR E-TICKET: CBYD.COM
- 3. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.
- 4. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, PERFORM EARTHWORK OPERATIONS TO SUBGRADE ELEVATIONS. SEE DRAWINGS BY OTHERS FOR WORK ABOVE SUBGRADE.

UTILITIES

- 1. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
- 2. THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
- 3. PAY ALL FEES AND COSTS ASSOCIATED WITH UTILITY MODIFICATIONS AND CONNECTIONS, REGARDLESS OF THE ENTITY THAT PERFORMS THE WORK.
- 4. COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
- 5. INTERIOR DIAMETERS OF STORM DRAIN AND SANITARY SEWER STRUCTURES SHALL BE DETERMINED BY THE PRECAST MANUFACTURER, BASED ON THE INDICATED PIPE SYSTEM LAYOUT AND LOCAL MUNICIPAL STANDARDS.
 - MINIMUM INTERIOR DIAMETERS:
 - 0 TO 20 FEET DEEP; 4 FEET.
 - 20 FEET OR GREATER; 5 FEET.
- 6. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES ARE APPROXIMATE. SET OR RESET RIM ELEVATIONS AS FOLLOWS:
 - IN PAVEMENTS AND CONCRETE SURFACES: FLUSH
 - IN SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
 - IN LANDSCAPE, SEEDED, AND OTHER EARTH SURFACE AREAS: 1 INCH ABOVE SURROUNDING AREA; TAPER EARTH TO RIM ELEVATION.
- 7. INSTALL PROPOSED PRIVATE UTILITY SERVICES ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION (WATER, SEWER, GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). COORDINATE FINAL DESIGN LOADS AND LOCATIONS WITH OWNER AND ARCHITECT.

PAVEMENT

- 1. AT A MINIMUM, CONSTRUCT ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

SITE RESTORATION

- 1. PROVIDE 6 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
- 2. REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO OWNER.
- 3. RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO OWNER.

LAYOUT LEGEND

- | LD. | ITEM |
|-----|---|
| BA | - BOLLARD |
| BC | - BITUMINOUS CONCRETE LIP CURB |
| CA | - BURRIED CONCRETE ANCHOR FOR END RAIL |
| CC | - CONCRETE CURB |
| CS | - CROSS WALK SIGN |
| CW | - CONCRETE SIDEWALK |
| DE | - "DO NOT ENTER" SIGN |
| DP | - CONCRETE DUMPSTER PAD |
| DR | - TURN SIGN |
| DY | - 4" DOUBLE YELLOW PAINTED LINE |
| FS | - FREE STANDING SITE SIGN |
| GR | - GUIDE RAIL WITH STELL POSTS |
| HR | - HANDICAP RAMP - SEE SHEET ?? |
| LO | - PAVED LEAK-OFF |
| PL | - PAINTED ISLAND - 4" WHITE LINES |
| RG | - RAIN GARDEN |
| RI | - RAISED ISLAND |
| RW | - RETAINING WALL |
| SA | - SCREENED SERVICE AREA ENCLOSURE ON CONCRETE PAD. SEE ARCHITECTURAL DRAWINGS |
| SB | - 12" WIDE WHITE STOP BAR |
| SS | - STOP SIGN |
| WL | - 4" WHITE PAINTED LINE |
| XC | - 8" WDE PAINTED CROSS WALK, 24" WIDE STRIPE |

LEGEND

- | | |
|--|---|
| | PROPOSED CONTOURS
PROPOSED SPOT ELEVATION
PROPOSED CLEARING LIMIT (APPROX.)
CONSTRUCTION HAUL ROUTE
PROPERTY LINE
PROPOSED ROOF DRAIN
PROPOSED CABLE LINE
PROPOSED SANITARY SEWER LINE
PROPOSED STORM DRAINAGE LINE
PROPOSED TELEPHONE LINE
PROPOSED WATER MAIN
PROPOSED GAS MAIN
PROPOSED ELECTRICAL SERVICE
PROPOSED GUIDE RAIL
PROPOSED HYDRANT AND GATE VALVE
PROPOSED REINFORCED CONCRETE CULVERT END
PROPOSED YARD DRAIN
PROPOSED TYPE "C-L" CATCH BASIN
PROPOSED TYPE "C" CATCH BASIN
PROPOSED HEAD WALL
PROPOSED STORM MANHOLE
PROPOSED STORM DRAIN
PROPOSED SANITARY MANHOLE
PROPOSED SIGN
PROPOSED LIGHT
PROPOSED BITUMINOUS CURB
PROPOSED RETAINING WALL
LOCAL INLAND WETLAND LINE
PROPOSED EROSION CONTROL MAT
PROPOSED CONCRETE WALK
PROPOSED CHAIN LINK FENCE
PROPOSED BARB WIRE FENCE
PROPOSED STOCKADE FENCE
PROPOSED SILT FENCE

PROPOSED HAY BALES

PROPOSED HAYBALE CHECK DAM

EXISTING CONTOURS
EXISTING TREE LINE
EXISTING DECIDUOUS TREE

EXISTING EVERGREEN TREE

EXISTING UTILITY POLE
EXISTING WATER GATE VALVE
EXISTING TELEPHONE MANHOLE
EXISTING HYDRANT
EXISTING CATCH BASIN
EXISTING SANITARY MANHOLE
EXISTING STORM MANHOLE
EXISTING SANITARY SEWER LINE
EXISTING TELEPHONE LINE
EXISTING WATER MAIN
EXISTING GAS MAIN
EXISTING ELECTRICAL SERVICE
LIMIT OF DISTURBANCE

TEST PIT |
|--|---|

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER	



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TOWN OF PUTNAM

GENERAL NOTES AND LEGEND

SLUDGE HANDLING IMPROVEMENTS

PUTNAM

CONNECTICUT

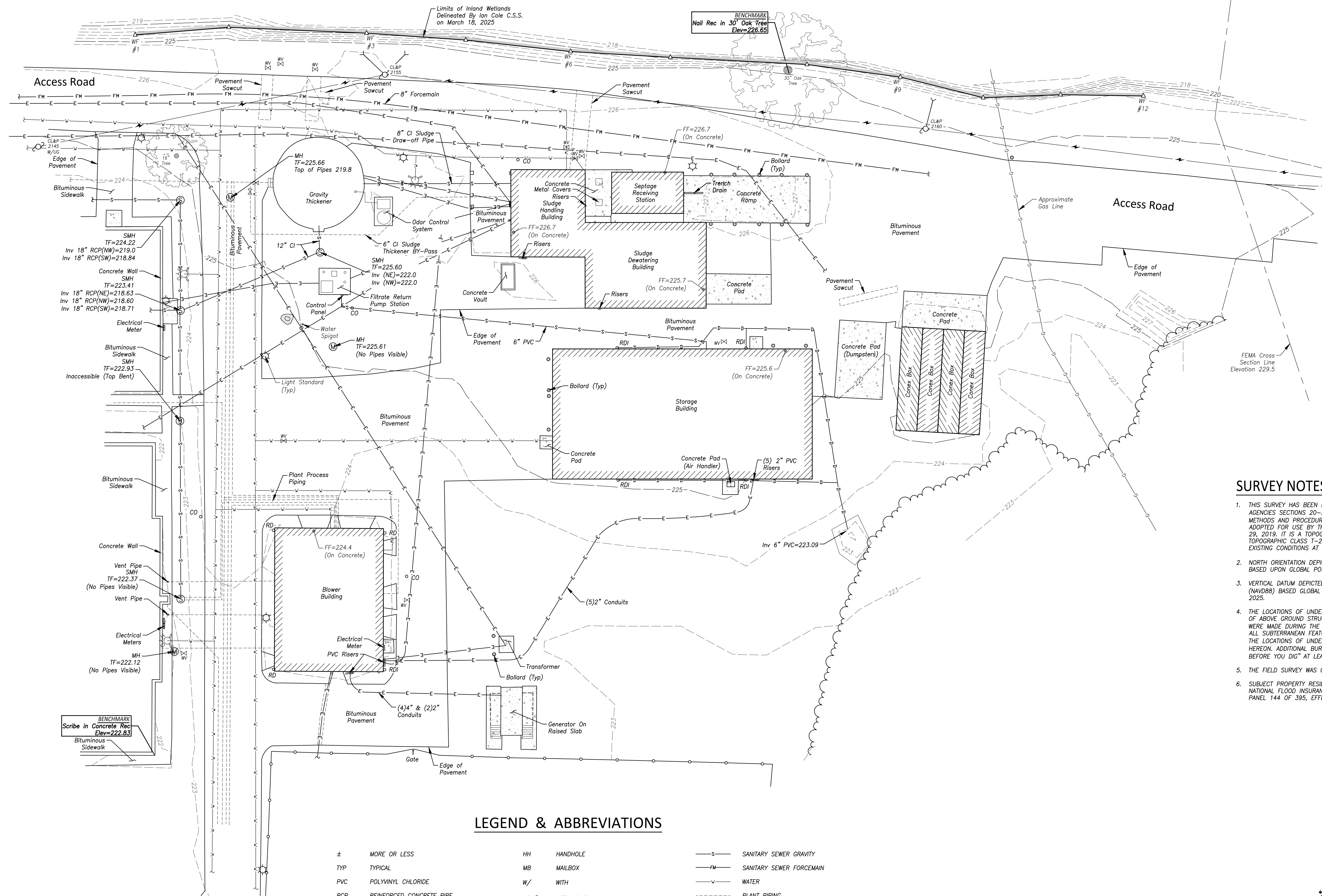
PROJ. No.: 1998386.P91
DATE: SEPTEMBER 2026

GI-002

\\192.168.2.5\PROJECTS\CIVIL 3D PROJECTS\2025\25-3589 F-O PUTNAM\DWG\SURVEY\F-O PUTNAM-EXISTING COND.DWG



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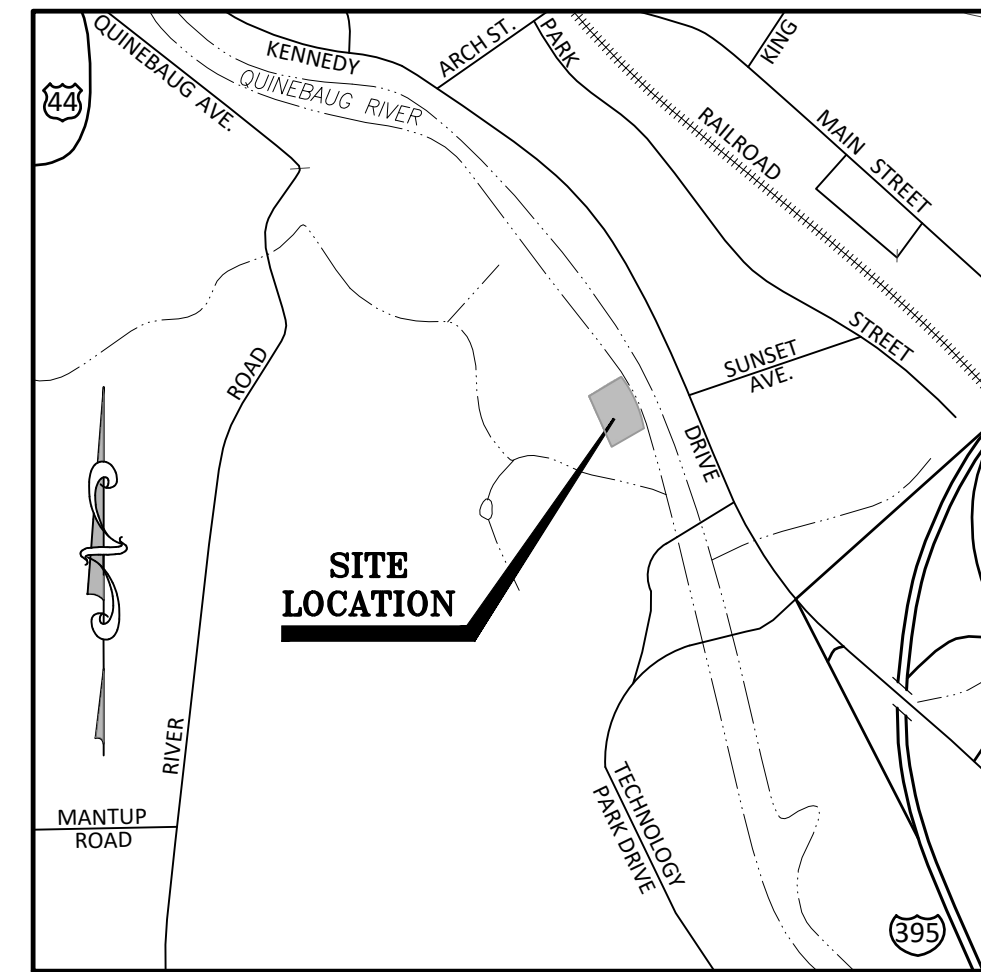


LEGEND & ABBREVIATIONS

±	MORE OR LESS	HH	HANDHOLE	—S—	SANITARY SEWER GRAVITY
TYP	TYPICAL	MB	MAILBOX	—FM—	SANITARY SEWER FORCEMAIN
PVC	POLYVINYL CHLORIDE	W/	WITH	—W—	WATER
RCP	REINFORCED CONCRETE PIPE	WF #1	WETLAND FLAG	----	PLANT PIPING
HDPE	HIGH DENSITY POLYETHYLENE PIPE	CL&P	CONNECTICUT LIGHT AND POWER	○	BOLLARD
SF	SQUARE FEET	N/F	NOW OR FORMERLY	○	UTILITY POLE
FF	FINISHED FLOOR	CO	CLEANOUT	—	GUY WIRE
MH	MANHOLE	—224—	EXISTING CONTOUR	▢	CATCH BASIN
SMH	SANITARY MANHOLE	—	TREE LINE	Ⓜ	MANHOLE
CB	CATCH BASIN	—	CHAINLINK FENCE	Ⓢ	SANITARY MANHOLE
TF	TOP OF FRAME	—	GAS	⊗	WATER, SANITARY OR GAS VALVE
INV	INVERT	—E—	UNDERGROUND ELECTRIC	△	WETLAND FLAG
WV	WATER VALVE	—	OVERHEAD WIRES		

I HAVE DELINEATED THE INLAND WETLANDS AND WATERCOURSES AS SHOWN
ON THE SUBJECT SITE PLANS IN ACCORDANCE WITH THE STANDARDS AND
DEFINITIONS FOUND IN THE CONNECTICUT GENERAL STATUTES, CHAPTER 440,
SECTIONS 22A-36 THROUGH 22A-45 AS AMENDED.

IAN T. COLE, P.W.S. #2006, REGISTERED SOIL SCIENTIST

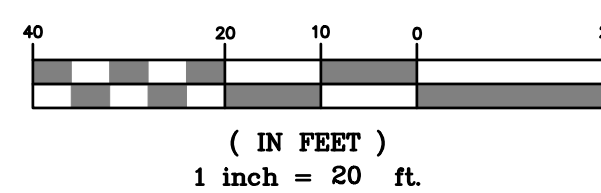


LOCATION MAP
SCALE: 1"=1000'

SURVEY NOTES

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED FOR USE BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019. IT IS A TOPOGRAPHIC SURVEY AND CONFORMS TO HORIZONTAL CLASS 4-2 AND TOPOGRAPHIC CLASS T-2 ACCURACY STANDARDS. IT IS INTENDED TO BE USED TO DEPICT THE EXISTING CONDITIONS AT THE TIME OF SURVEY.
- NORTH ORIENTATION DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN DATUM 1983 (NAD83) BASED UPON GLOBAL POSITIONING SYSTEM OBSERVATIONS, OBSERVED ON MARCH 6, 2025.
- VERTICAL DATUM DEPICTED HEREON IS APPROXIMATE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) BASED GLOBAL POSITIONING SYSTEM OBSERVATIONS USING GEOIDE18 ON MARCH 6, 2025.
- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON THE LOCATION OF ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED BY OTHERS. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. ALL SUBTERRANEAN FEATURES AND IMPROVEMENTS MAY NOT BE DEPICTED OR NOTED HEREON. THE LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. CONTACT "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OPERATIONS.
- THE FIELD SURVEY WAS COMPLETED ON MARCH 18, 2025.
- SUBJECT PROPERTY RESIDES IN A REGULATORY FLOODWAY WITH BASE FLOOD ELEVATIONS PER NATIONAL FLOOD INSURANCE RATE MAP TOWN OF PUTNAM AND KILLINGLY, NUMBER 090136, PANEL 144 OF 395, EFFECTIVE DATE SEPTEMBER 7, 2023.

GRAPHIC SCALE

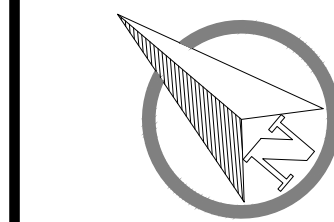


"TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY
CORRECT AS NOTED HEREON."

JOHN U. FAULISE JR. L.S. LICENSE NO. DATE

Topographic Survey "Existing Conditions Plan"

Prepared for
Fuss & O'Neil, Inc
Water Pollution Control Facility - Putnam, Connecticut

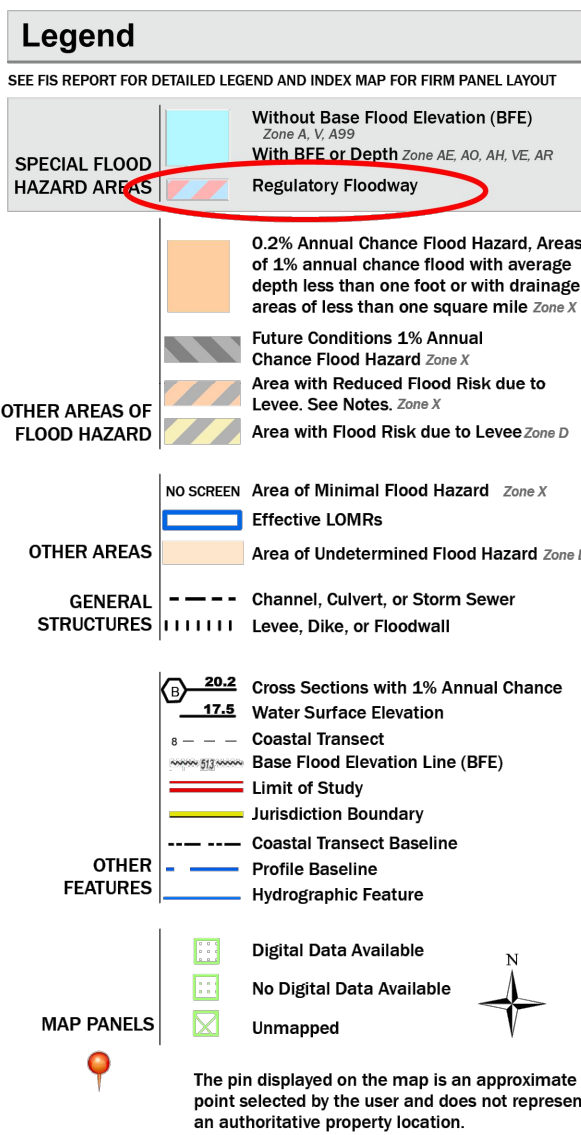


SCALE: 1" = 20'
DATE: March 2025
JOB I.D. NO. 25-3589
Revisions

SHEET NO.

1

1



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



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GRAPHIC SCALE	

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TOWN OF PUTNAM

EXISTING SITE & BORING LOCATION PLAN

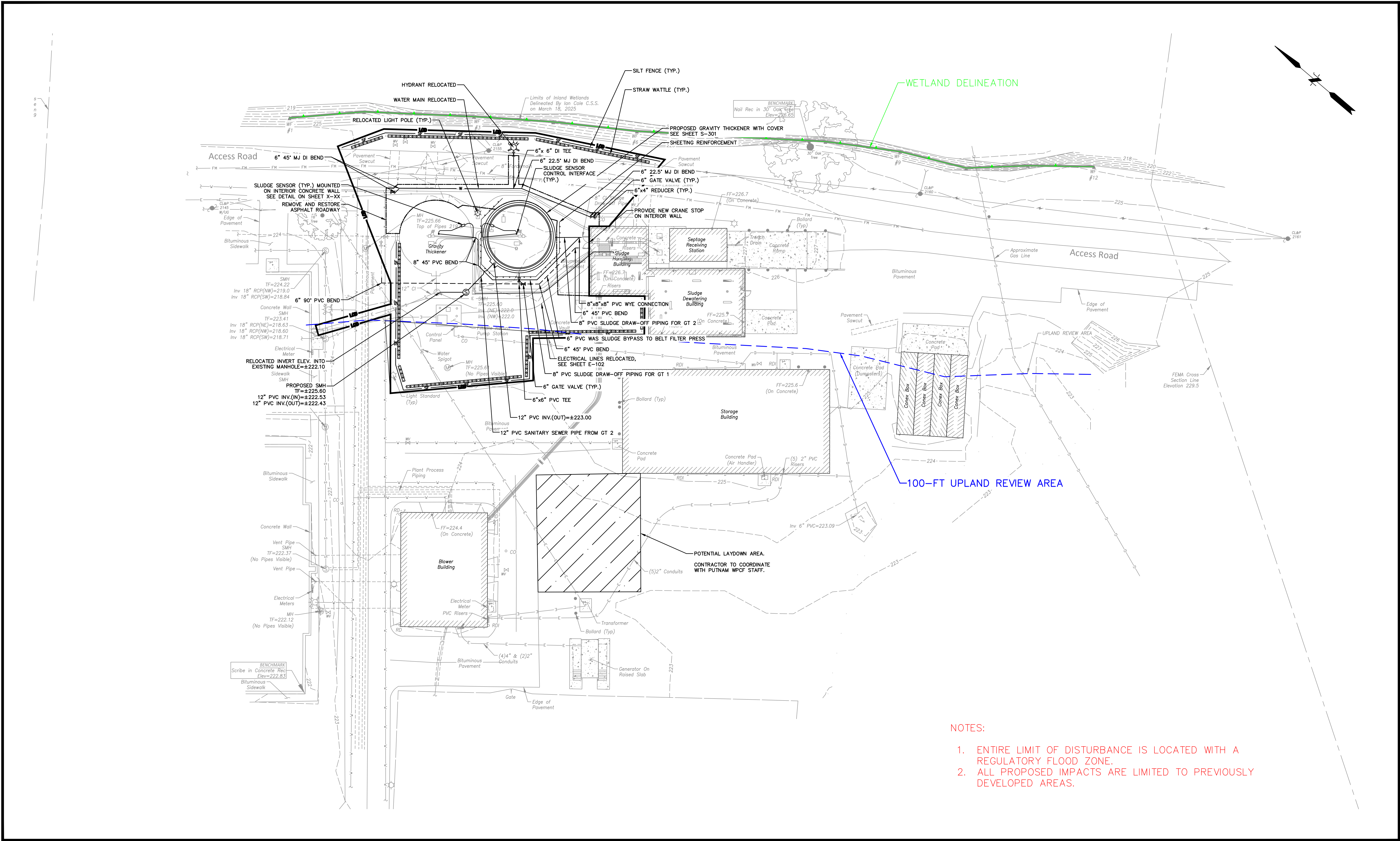
SLUDGE HANDLING IMPROVEMENTS

ROJ. No.: 1998386.P91
DATE: SEPTEMBER 2026

CS-101

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 LAYER STATE: PC3: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3 STB1CB: FO STB

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- NOTES:
1. ENTIRE LIMIT OF DISTURBANCE IS LOCATED WITH A REGULATORY FLOOD ZONE.
 2. ALL PROPOSED IMPACTS ARE LIMITED TO PREVIOUSLY DEVELOPED AREAS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



SEAL	

SCALE:	HORZ.: 1" = 20'
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DATUM:	HORZ.: -
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0 10' 20' 40'	
GRAPHIC SCALE	

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TOWN OF PUTNAM

PROPOSED SITE PLAN

SLUDGE HANDLING IMPROVEMENTS

CONNECTICUT

PROJ. No.: 1998386.P91
DATE: SEPTEMBER 2026

CS-103

1. CONSTRUCTION STANDARDS -- CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE CONNECTICUT GUIDELINES FOR SOIL, EROSION AND SEDIMENT CONTROL (CT) BULLETIN. ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
2. PLAN IMPLEMENTATION -- IMPLEMENT THIS EROSION AND SEDIMENT CONTROL PLAN. THIS IMPLEMENTATION INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES UNTIL PERMANENT STABILIZATION IS ACHIEVED, INFORMING ALL SUBCONTRACTORS OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND ADAPTING THE SYSTEM TO THE LOCAL AGENTS AND THE TRANSFER OF THIS RESPONSIBILITY. THE OWNER SHALL BE RESPONSIBLE FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN TO THE NEW OWNER IF THE TITLE OF THE LAND IS TRANSFERRED PRIOR TO ACHIEVING PERMANENT STABILIZATION.
3. INSTALLATION SCHEDULE -- INSTALL THE CONSTRUCTION ENTRANCE BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF THE PROJECT AREA BEGINS. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO STUMP REMOVAL AND CONSTRUCTION. INSTALL ADDITIONAL CONTROL MEASURES DURING THE CONSTRUCTION PERIOD, IF DEEMED NECESSARY BY THE OWNER, HIS AGENTS OR AGENTS OF THE MUNICIPALITY.
4. FUGITIVE DUST -- CONTROL FUGITIVE DUST USING WATER SPRAYS OR CALCIUM CHLORIDE ON SOIL SURFACES, SWEEPING PAVED AREAS, TEMPORARY WINDBREAKS OR NON-ASPHALTIC SOIL TACKIFIERS.
5. STRAW BALE LINE SPAN -- INSTALL STRAW BALES WHERE PROTECTION AND EFFECTIVENESS IS REQUIRED FOR LESS THAN 90 DAYS. OTHERWISE, INSTALL SILT FENCE.
6. CATCH BASINS -- PROTECT CATCH BASINS WITH PROPER CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
7. STOCKPILES -- ENCLOSE STOCKPILES OF ERODIBLE SOIL WITH A STRAW BALE OR SILT FENCE BARRIER. THE SIDE SLOPES OF ERODIBLE STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS SHALL BE SEEDDED AND MULCHED IMMEDIATELY AFTER THEY ARE FORMED.
8. TOE OF SLOPE -- ESTABLISH AN EROSION CONTROL BARRIER (SILT FENCE OR STRAW BALE BARRIER) APPROXIMATELY 5 TO 10 FEET FROM THE PROPOSED TOE OF THE CUT OR FILL AREA PRIOR TO BEGINNING EARTHWORK.
9. SEDIMENT REMOVAL -- SEDIMENT REACHING $\frac{1}{8}$ THE HEIGHT OF THE EROSION CONTROL BARRIER SHALL BE REMOVED. REMOVE AND DISPOSE OF SEDIMENT IN A MANNER CONSISTENT WITH THE INTENT OF THE PLAN.
10. SOIL STABILIZATION SCHEDULE -- APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL GRADE. APPLY TEMPORARY SOIL STABILIZATION MEASURES IF FINAL GRADING IS TO BE DELAYED MORE THAN 30 DAYS.
11. TEMPORARY SEEDING -- TEMPORARILY SEED ERODIBLE SOILS THAT WILL BE EXPOSED GREATER THAN 1 BUT LESS THAN 12 MONTHS WITHIN THE FIRST 7 DAYS OF SUSPENDING GRADING OPERATIONS. APPLY LIME AT A RATE OF 90 LBS/1000 SQ. FT. APPLY 10-10-10 FERTILIZER AT A RATE OF 7 $\frac{1}{2}$ LBS/1000 SQ. FT. APPLY PERENNIAL REY GRASS AT A RATE OF 2 LBS/1000 SQ. FT. TO A DEPTH OF $\frac{1}{2}$ INCH. OPTIMUM SEEDING DATES ARE MARCH 15 TO JULY 1 AND AUGUST 1 TO OCTOBER 15. MULCH FOR SOIL SEED APPLIED AFTER THE END OF THE OPTIMUM SEEDING DATE. APPLY MULCH ONLY SUCH THAT IT PROVIDES 80%-95% SOIL COVERAGE. MULCH FOR SOIL SEED APPLIED OUTSIDE OF THE OPTIMUM SEEDING DATES SHALL BE APPLIED EVENLY SUCH THAT IT PROVIDES 95%-100% COVERAGE.
12. PERMANENT SEEDING -- SEED PERMANENT LAWN AREAS IN ACCORDANCE WITH THE SPECIFICATIONS.
13. INSPECTION -- THE ENGINEER WILL VERIFY IN THE FIELD THAT THE CONTROLS REQUIRED BY THIS PLAN ARE PROPERLY INSTALLED AND MAINTAINED. THESE INSPECTIONS SHALL BE NOT LESS FREQUENTLY THAN WEEKLY AND WITHIN 24 HOURS OF THE END OF A STORM HAVING A RAINFALL AMOUNT OF 0.1 INCH OR GREATER. FOLLOWING THESE INSPECTIONS, A WRITTEN REPORT SHALL BE PREPARED, INFORMING THE OWNER OR HIS AGENT NOT LESS FREQUENTLY THAN WEEKLY AND THE MUNICIPALITY NOT LESS FREQUENTLY THAN MONTHLY OF OBSERVATIONS, MAINTENANCE, AND CORRECTIVE ACTIVITIES UNDERTAKEN.



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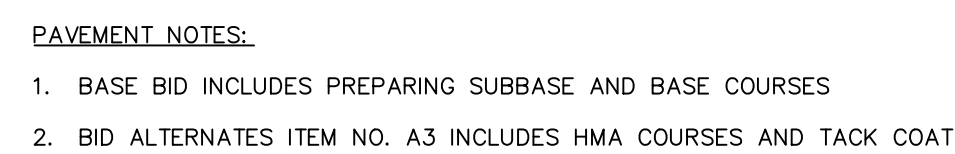


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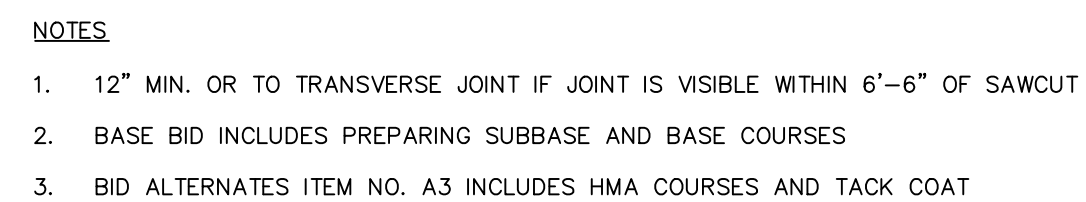
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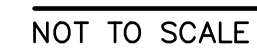
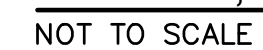
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CD-102

1. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALL OF STRUCTURE.
2. MANHOLES SHALL BE PLACED ON 8" MINIMUM CRUSHED STONE BASE.
3. INSTALL RUBBER PLUGS IN LIFTING HOLES.
4. MANHOLES SHALL RECEIVE 2 COATS OF DAMP-PROOFING MATERIAL PRIOR TO DELIVERY TO THE SITE.
5. PROVIDE WATERIGHT STUB AND FLEXIBLE SLEEVE AS NOTED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
6. PIPE TO MANHOLE JOINTS SHALL BE SEALED WATERIGHT BY USE OF PRE-MOLDED ELASTOMERIC SEALED JOINTS CAST INTO CONCRETE MANHOLE BASE AND SHALL CONFORM TO ASTM C 443 AND ASTM C 923.
7. BUTYL RUBBER JOINT SEAL SHALL CONFORM TO ASTM C 990.
8. MANHOLE FRAME AND COVERS SHALL BE OF THE TYPE INDICATED BELOW OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED.

LOCATION	TYPE
GUTTERS, LOW LYING, WET UNPAVED AREAS	BOLTED & GASKETED (BOLTS SHALL BE 1/2" STAINLESS STEEL.)
NORMALLY DRY UNPAVED AND PAVED AREAS	STANDARD
VALVE STRUCTURES WATERIGHT	
THE COVER SHALL HAVE THE WORDS "SANITARY SEWER" CAST INTO THE COVER IN 2" LETTERS.	
9. MANHOLE STEPS SHALL BE STEEL REINFORCED POLYPROPYLENE OR ALUMINUM.
10. WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INCOMING SEWER AND THE MANHOLE INVERT IS 24" OR LESS, THE INVERT SHALL BE FILLETED.
11. PAYMENT DEPTHS ARE MEASURED FROM TOP OF CONE TO INVERT OF STRUCTURE.

PLAN

Diagram illustrating the cross-section of a concrete slab with a clear opening. The dimensions are as follows:

- Overall width: 40"
- Overall depth: 8"
- Clear opening width: 30"
- Top reinforcement width: 32"
- Bottom reinforcement width: 30"
- Top reinforcement thickness: 1-3/4"

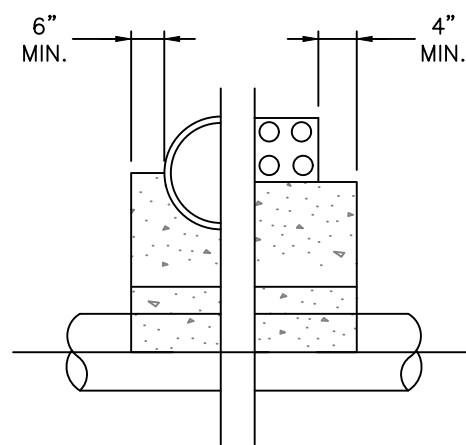
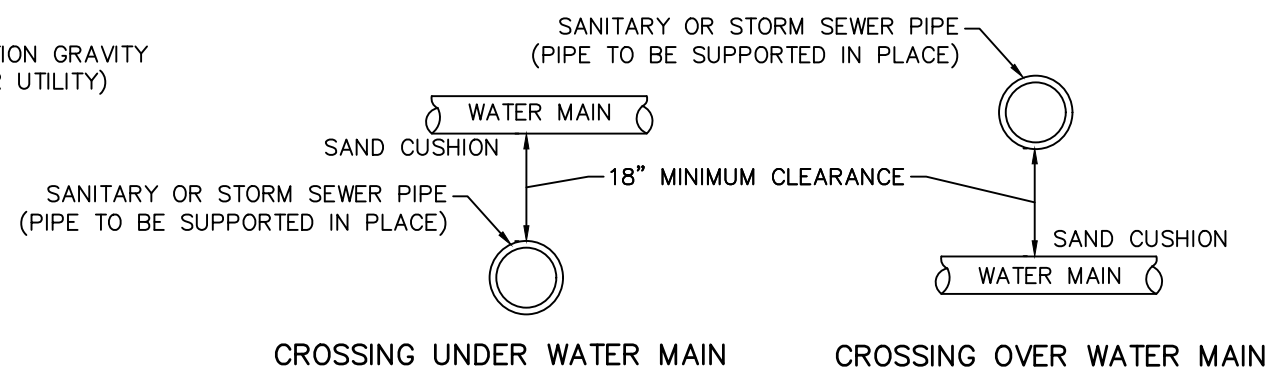


Diagram illustrating the cross-section of a pipe installation for Type B (d < 12"). The diagram shows a pipe (UTILITY OR SEWER) installed in a trench. The pipe is surrounded by 2" STYROFOAM OR POLYISOCYANURATE BETWEEN PIPE AND CONCRETE. The pipe is supported by COMPACTED PIPE BEDDING. The trench is filled with CONCRETE, which is CLASS A CONCRETE FOR FULL WIDTH OF TRENCH. A BOND BREAKER is shown between the pipe and the concrete. The trench is symmetrical about a vertical centerline, indicated by a vertical line and arrows labeled SYMMETRICAL ABOUT C. The depth of the trench is labeled d.

1. d=DISTANCE FROM TOP OF SEWER PIPE TO THE BOTTOM OF THE UTILITY PIPE
2. SUPPORTS TO BE LOCATED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER

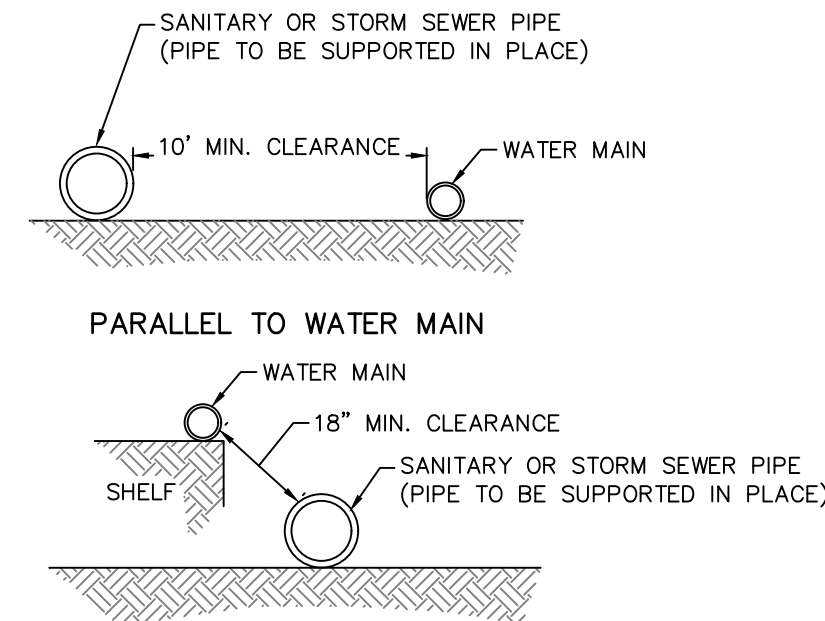


CROSSING UNDER WATER MAIN

1. IF THE SANITARY SEWER CROSSES LESS THAN 18" ABOVE OR UNDER THE WATER MAIN, THE SANITARY SEWER MUST BE ENCASED IN CONCRETE TO A DISTANCE OF 10 FEET (10') ON BOTH SIDES OF THE WATER MAIN OR BE APPROVED TIGHT JOINTED PIPE AS APPROVED

PARALLEL TO WATER MAIN

2. IF THE SANITARY SEWER IS WITHIN 10 HORIZONTAL FEET (10') OF THE WATER MAIN AND EITHER ABOVE THE WATER MAIN INVERT OR LESS THAN 18 INCHES (18") UNDER THE WATER MAIN, THE SANITARY SEWER MUST BE ENCASED IN CONCRETE OR BE APPROVED TIGHT JOINTED PIPE AS APPROVED



8"

8"

STANDARD MANHOLE FRAME, COVER AND INSERT (TYP.) WITH MH CLEAR OPENING OF 30"

IN UNPAVED AREAS, MANHOLE COVERS TO BE FLUSH WITH SURFACE.

ANCHOR FRAME WITH CLASS A CONCRETE TO TOP OF FRAME SLOPED TO DRAIN AWAY.

ADJUST FRAME TO FINAL GRADE WITH BRICK AND MORTAR WITH A MINIMUM HEIGHT OF 1 COURSE OF BRICK AND A MAXIMUM BRICK HEIGHT OF 12"

1 COAT OF FLEXIBLE EPOXY GEL INT. AND EXT.

2 COATS DAMP-PROOFING MATERIAL

BUTYL RUBBER JOINT SEAL (TYP.)

BRICK LINED INVERT

SLOPING SHELF TO DRAIN

PROVIDE GROUT FOR ANNULAR SPACE BETWEEN DOG HOUSE MANHOLE AND EXISTING GRAVITY MAIN (TYP.)

5" MIN.

0.8x DIA.

4'-0" DIA.

5" MIN.

BASE TO BE CONSTRUCTED ON 8" MIN. CRUSHED STONE BASE

LIP ON BASE

END OF PIPE SHALL BE CUT FLUSH WITH INSIDE WALL (TYP.)

8-INCH PVC PIPE

36" DIA. CLEAR OPENING

12" TYP.

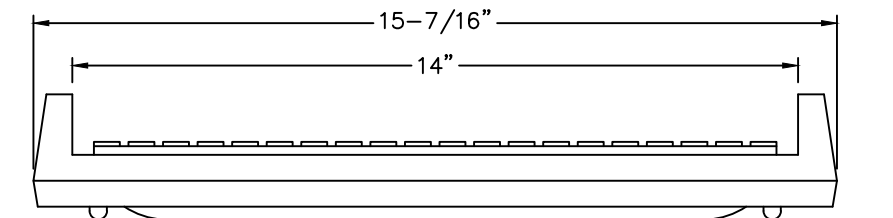
4" TYP.

MANHOLE STEPS SHALL BE CAST IN PRECAST UNIT DURING MANUFACTURE

1'-0" OR 4'-0" ECCENTRIC CONE

1'-0" MIN. 4'-0" MAX.

1'-0" MIN. ABOVE OPENING



3-1/8"

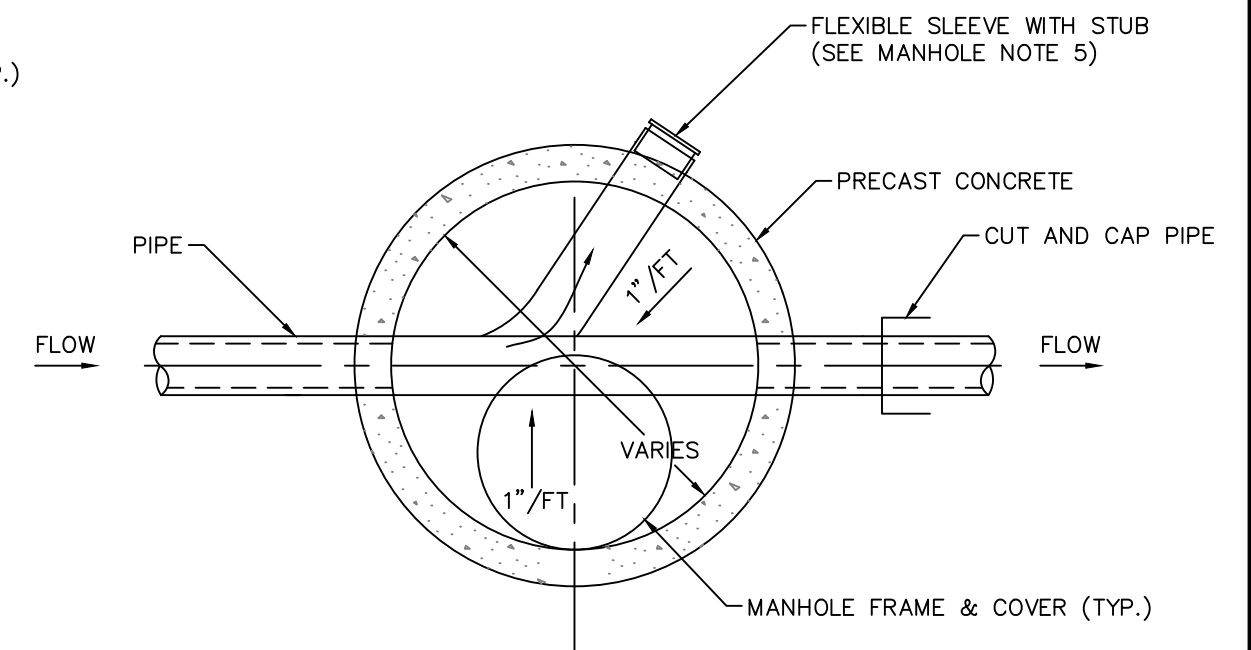
5-1/8"

1/2" DIAMETER STEEL REINFORCEMENT (GRADE 60)

COPOLYMER POLYPROPYLENE PLASTIC

GROUT OR CAST IN MANHOLE WALL

SECTION A-A



TO DRAIN

FOR ANNUAL DOG HOUSE EXISTING (TYP.)

8-INCH PVC PIPE

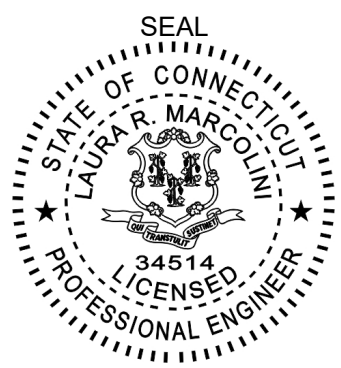
BRICK LINED INVERT AND SHELVE

BRICK MASONRY OR CLASS A CONCRETE

SLOPE @ 1"/FT

0.8x0.8 DIA

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SANITARY SEWER DETAILS

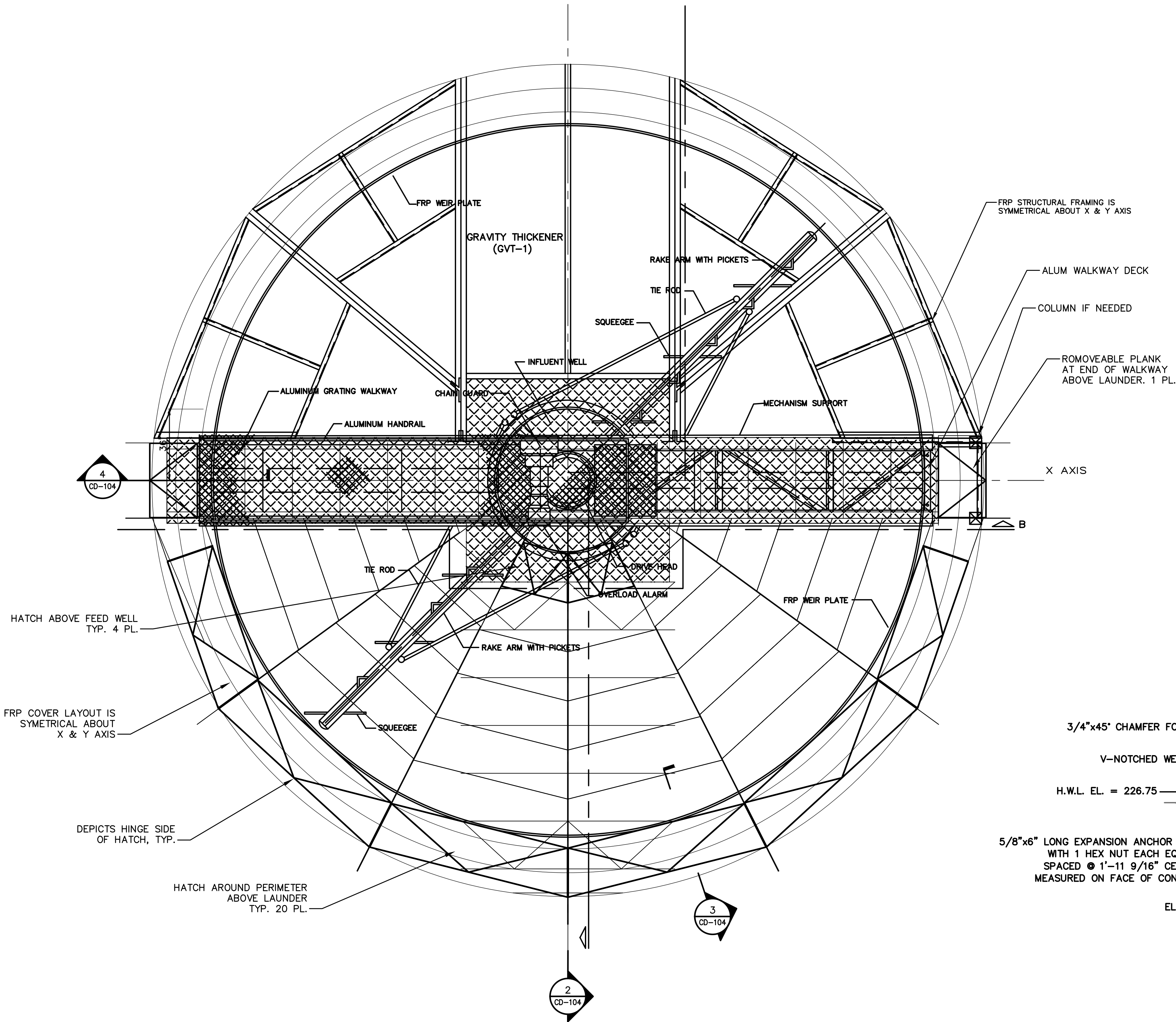
SLUDGE HANDLING IMPROVEMENTS

CONNECTICUT

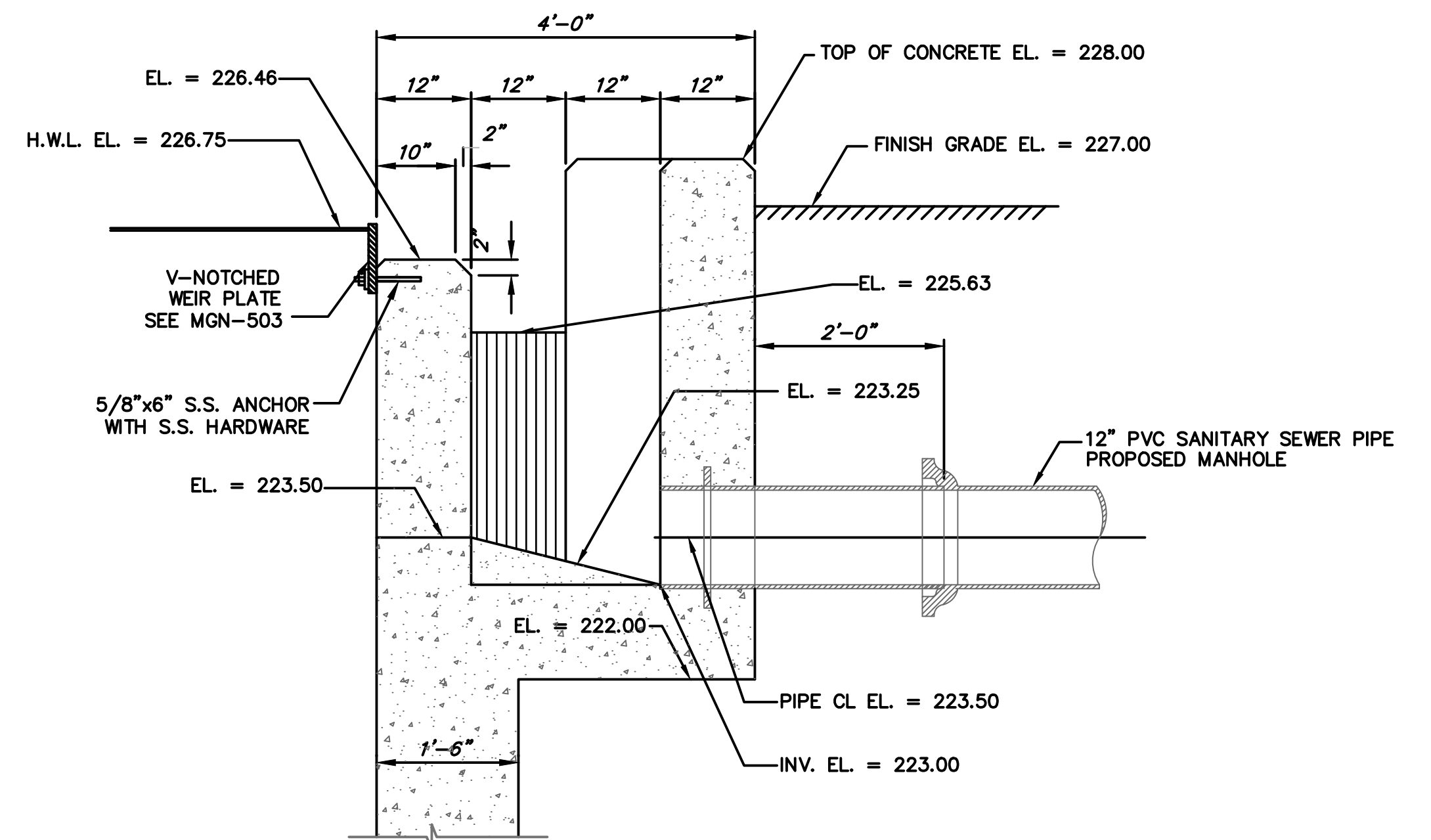
CD-103

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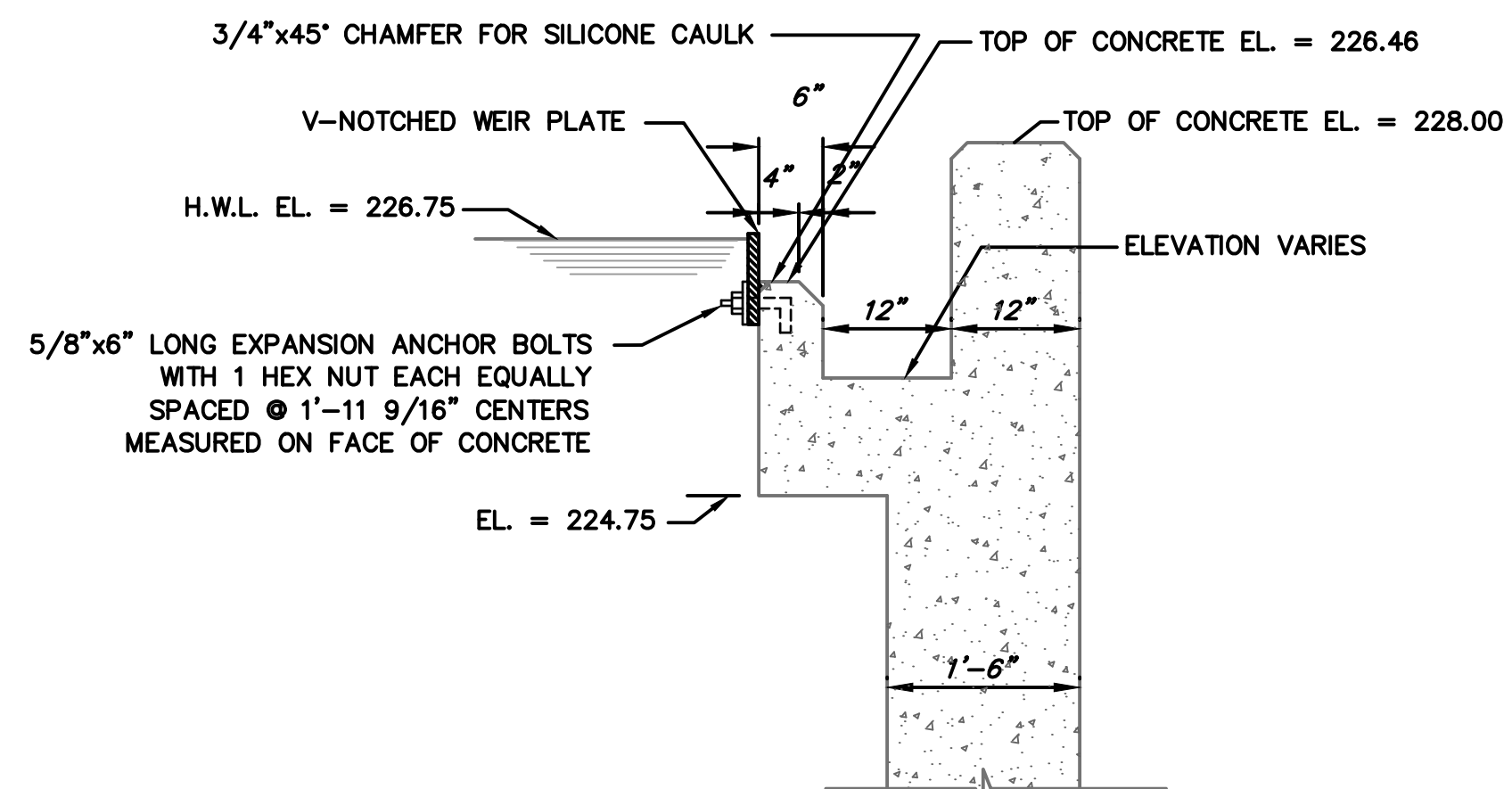
1 PROPOSED GRAVITY THICKENER PLAN
3/8" = 1'-0"



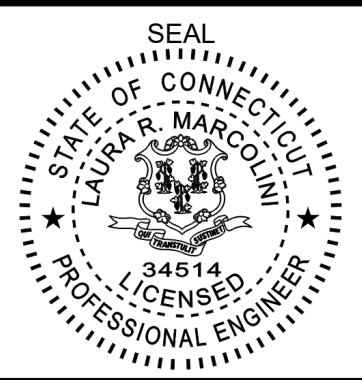
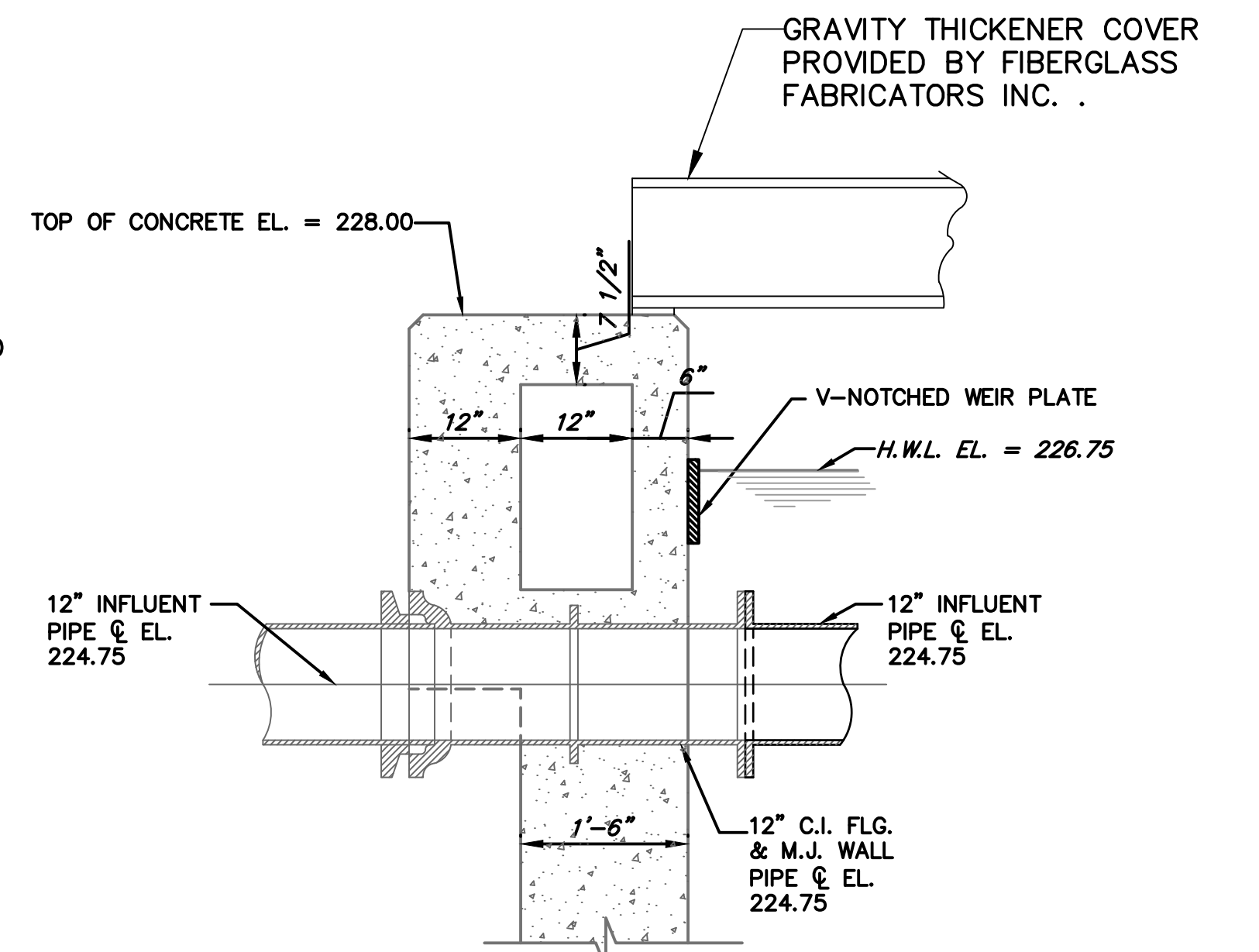
2 SANITARY SEWER PIPING SECTION
SCALE: 3/4"=1'-0"



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



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



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FUSS & O'NEILL
ONE FINANCIAL PLAZA, 15th FLOOR
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PUTNAM

TOWN OF PUTNAM
GRAVITY THICKENER TANK - PROCESS
PROPOSED PLAN & DETAILS
SLUDGE HANDLING IMPROVEMENTS

CONNECTICUT

PROJ. No.: 1998386.P91
DATE: SEPTEMBER 2026

CD-104

-
- 30'-0" TANK DIA
- 6'-0" DIA INFLUENT WELL
- AMWELL TO HERE
12" STD 125# FLANGE
- DRIVE ASSEMBLY
W/RIGID COUPLING
- HANDRAILING
W/KICKPLATE
- GRAVITY THICKENER COVER
PROVIDED BY FIBERGLASS
FABRICATORS, INC.
- SLUDGE SENSOR
- WEIR PLATE
- BASE FLOOD EL = 229.90'
TOP OF WALKWAY EL = 229.48'
- 228.13'
TOP OF TANK EL = 228.00'
H.W.L. EL = 226.75'
- SEE SECTION 3
ON CD-104 FOR
DETAILED VIEW
- 12" INFLUENT PIPE
& SUPPORT
(BY CONTRACTOR)
SEE NOTE 1
- TYP
SEE NOTE 2
- 2'-1 1/2"
- TORQUE TUBE
- 2'-4"
- 2'-0" TYP
- TRUSS ARM
W/PICKETS
- 8" SLUDGE DRAW-OFF
TO SLUDGE HANDLING BUILDING
- FLIGHT &
ADJUSTABLE SQUEEGEE
- SLUDGE CONCENTRATOR
- 9'-11" S.W.D.
- TOP OF GROUT EL = 216.75'
- TOP OF GROUT EL = 213.69'
- SLUDGE DRAW-OFF INV. = 212.50'
- GRAVITY THICKENER BASE = 211.00'
- PROPOSED GRAVITY THICKENER SECTION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



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TOWN OF PUTNAM

GRAVITY THICKENER TANK - PROCESS PROPOSED SECTION

SLUDGE HANDLING IMPROVEMENTS

PUTNAM

CONNECTICUT

PROJ. No.: 1998386.P91
DATE: SEPTEMBER 2026

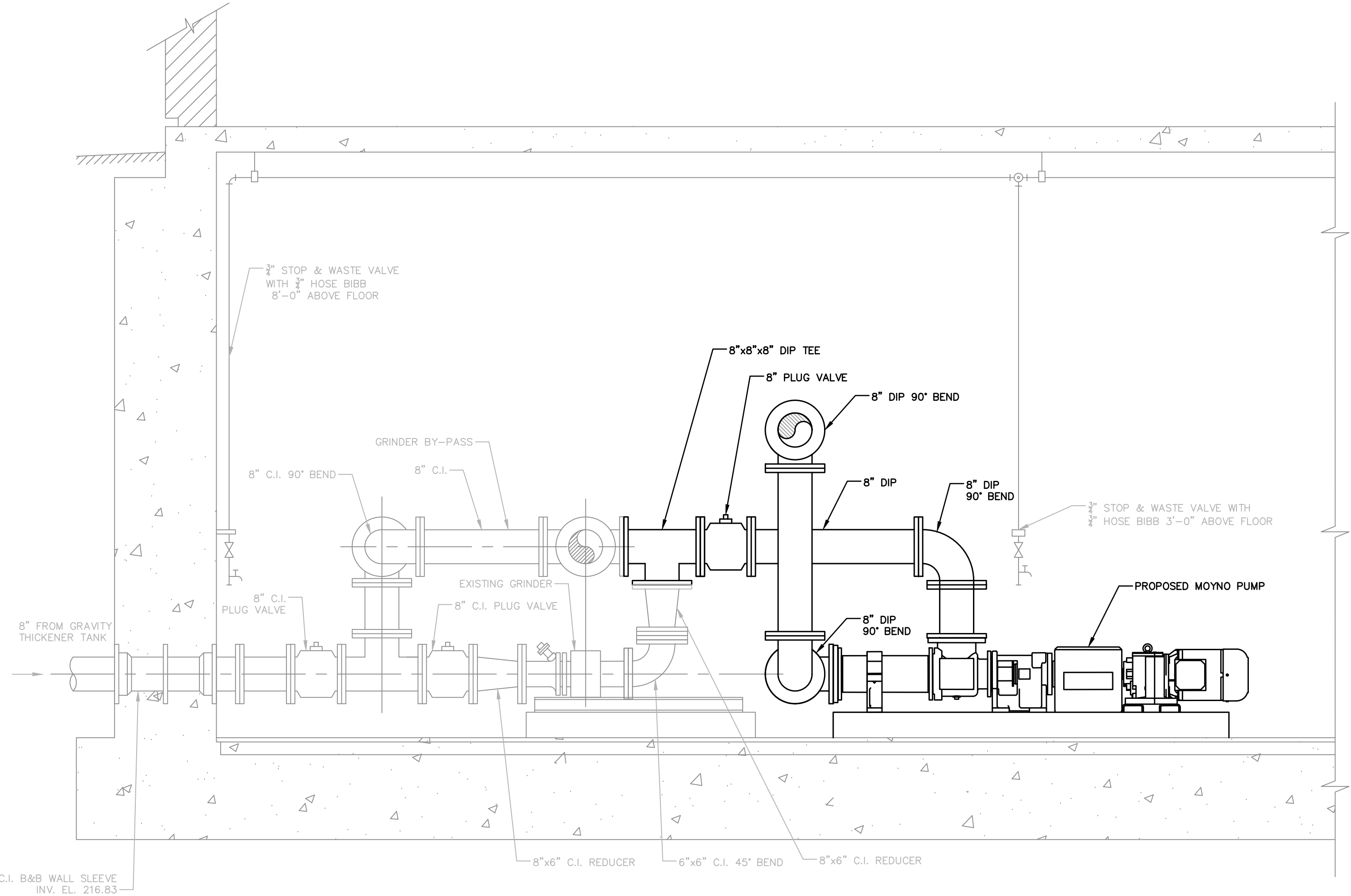
CD-301

SEAL
STATE OF CONNECTICUT
LAURA R. MARCOLINI
34514
LICENSED
PROFESSIONAL ENGINEER

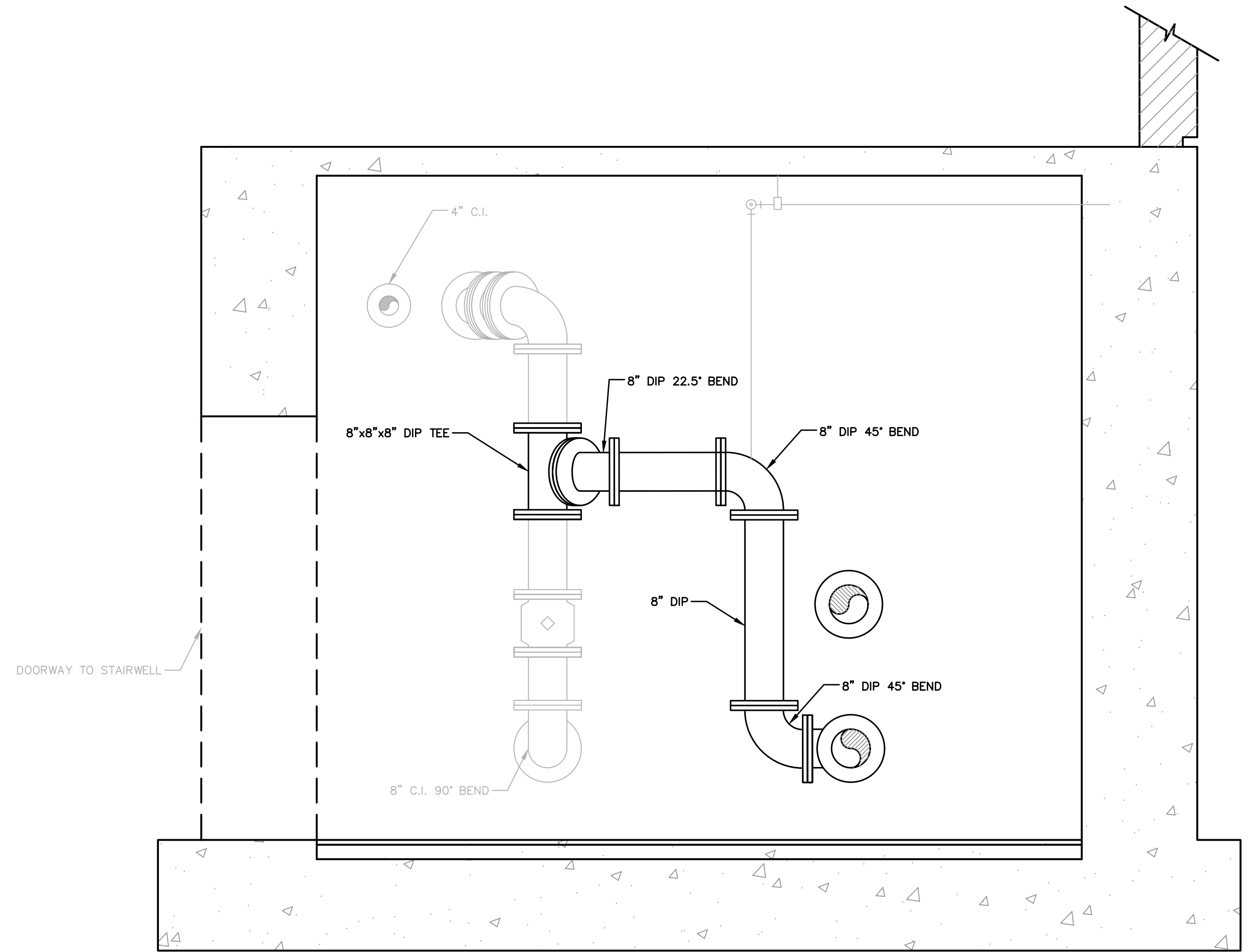
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GRAPHIC SCALE	

PROJ. No.: 1998386.C91
DATE: SEPTEMBER 2026
MSH-101

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MS VIEW: LAYER STATE:



1 MOYNO PUMP SECTION
1" = 20'



2 MOYNO PUMP CONNECTION SECTION
1" = 20'

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



SEAL

SCALE:
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VERT.: -
DATUM:
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0 10' 20' 40'
GRAPHIC SCALE

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TOWN OF PUTNAM
SLUDGE HANDLING BUILDING
MOYNO PUMP PROFILE VIEWS
SLUDGE HANDLING IMPROVEMENTS
PUTNAM
CONNECTICUT

PROJ. No.: 1998386.C91
DATE: SEPTEMBER 2026
MSH-103

THE WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS FOR THE 2022 CONNECTICUT STATE BUILDING CODE, EXCEPT AS AMENDED, ALTERED OR DELETED BY THE ADDITIONAL PROVISIONS IN THE CONNECTICUT SUPPLEMENT.

LATERAL EARTH PRESSURES:

	ACTIVE =	35 PCF
	AT-REST =	55 PCF

ROOF SNOW:	GROUND SNOW LOAD,	$P_g = 40$ PSF
	FLAT-ROOF SNOW LOAD,	$P_f = 27$ PSF
	SNOW EXPOSURE FACTOR,	$C_e = 0.9$
	SNOW LOAD IMPORTANCE FACTOR,	$I_s = 1.0$
	THERMAL FACTOR,	$C_t = 1.2$
	MINIMUM ROOF DESIGN SNOW LOAD	$= 30$ PSF

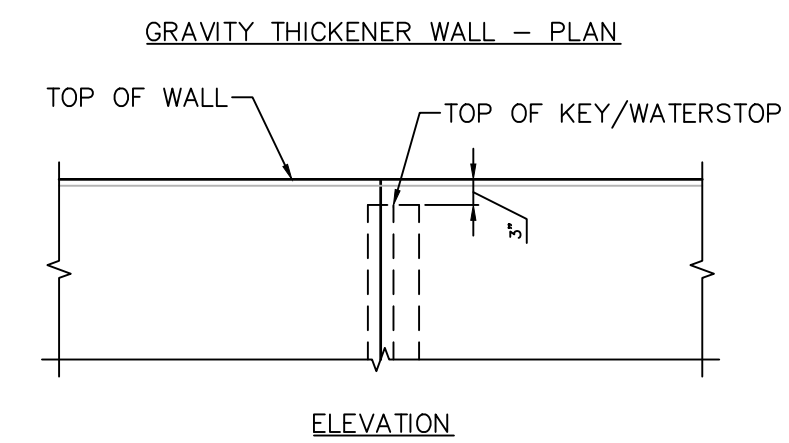
WIND: BASIC WIND SPEED (3-SECOND GUST), $V = 129$ MPH
BUILDING CATEGORY = II
WIND IMPORTANCE FACTOR, $I_w = 1.00$
WIND EXPOSURE CATEGORY = C
INTERNAL PRESSURE COEFFICIENT, $GC_{pi} = \pm$

SEISMIC:	SEISMIC USE GROUP	= III
	SEISMIC IMPORTANCE FACTOR, I_e	= 1.25
MAPPED SPECTRAL RESPONSE ACCELERATIONS, S_s		= 0.184
	S_1	= 0.055
SITE CLASS SPECTRAL RESPONSE COEFFICIENTS, S_{DS}		= 0.196
	S_{D1}	= 0.088
	SEISMIC DESIGN CATEGORY	= B

- CONCRETE NOTES:

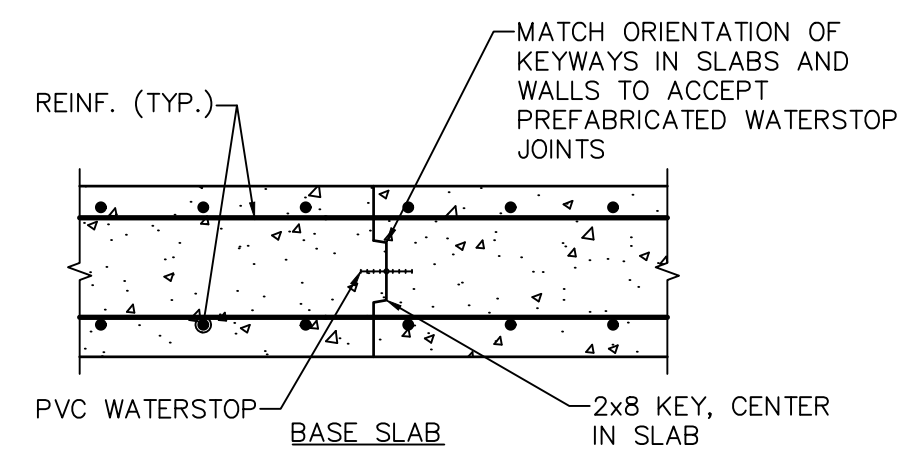
1. ALL CONCRETE WORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 AND BE DETAILED IN ACCORDANCE WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
3. REBARS SHALL HAVE A MINIMUM CONCRETE COVER AS FOLLOWS:
CONCRETE DEPOSITED AGAINST GROUND.....3 IN.
CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
FOR BARS #5 AND LARGER.....2 IN.
FOR BARS SMALLER THAN #5.....1½ IN.
CONCRETE NOT EXPOSED TO THE WEATHER OR THE GROUND:
SLABS AND WALLS.....¾ IN.
4. ALL REINFORCING BARS SHALL BE CONTINUOUS AND LAPPED A MINIMUM OF 48 BAR DIAMETERS AT ALL SPLICES, CORNERS, AND INTERSECTIONS UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPOSED LOCATION PRIOR TO AND DURING PLACEMENT OF CONCRETE USING APPROVED CHAIRS, SPACERS AND TIE WIRE AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD WITHOUT THE APPROVAL OF THE ENGINEER.
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185, WITH A MINIMUM YIELD STRENGTH OF 75 KSI. LAP EDGES AND ENDS OF FABRIC SHEETS A MINIMUM OF ONE MESH SPACING PLUS 2 INCHES, AND WIRE TOGETHER. ALTERNATIVELY, SLABS-ON-GRADE MAY BE REINFORCED WITH FIBER REINFORCEMENT, SUCH AS FIBERMESH, APPLIED AT A DOSAGE RATE OF NOT LESS THAN 1.5 LBS/CU YD.
7. CONCRETE PROTECTION FOR REINFORCEMENT SHALL IN ALL CASES BE AT LEAST EQUAL TO THE DIAMETER OF THE BAR EXCEPT FOR CONCRETE SLABS.
8. CONCRETE FOR WALLS, PIERS, AND FOOTINGS SHALL BE NORMAL WEIGHT CONCRETE AND SHALL DEVELOP A COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS, UNLESS OTHERWISE NOTED. CONCRETE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF ¾ INCH, A MINIMUM CEMENT CONTENT OF 560 LBS/CU YD., AND A MAXIMUM SLUMP OF 4 INCHES. CONCRETE MIX SHALL INCLUDE A CRYSTALLINE WATERPROOFING ADMIXTURE TO CREATE INTERNAL WATERPROOFING MEMBRANE.
9. ALL FOOTINGS AND PIERS SHALL BE CENTERED BELOW THE MEMBERS WHICH THEY SUPPORT UNLESS SHOWN OTHERWISE.
10. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A ¾ INCH CHAMFER UNLESS NOTED OTHERWISE.
11. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED.
12. SIZES AND LOCATIONS OF ALL REQUIRED EMBEDDED ITEMS FOR ALL TRADES SUCH AS ANCHOR BOLTS, PIPING SLEEVES, HOLDOWN ANCHORS, ETC., SHALL BE COORDINATED BY THE CONTRACTOR WITH OTHER TRADES.
13. CONSTRUCTION JOINTS SHALL BE DETAILED AND LOCATED ON SHOP DRAWINGS AND APPROVED BY THE ENGINEER. UNLESS SHOWN OTHERWISE, CONSTRUCTION JOINTS ARE TO BE KEYED AND PROVIDE FOR CONTINUITY OF REINFORCING STEEL. CONSTRUCTION JOINTS ARE TO BE LOCATED WHERE CONSTRUCTION OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
14. CONSTRUCTION JOINTS IN WALLS SHALL BE LOCATED AT THE CONVENIENCE OF THE CONTRACTOR MID-WAY BETWEEN BUTTRESSES, BUT NOT LESS THAN 4'-0" FROM ANY OPENING, EXCEPT WHERE SPECIFICALLY SHOWN ON PLAN OR APPROVED BY THE ENGINEER. IN NO EVENT SHALL A STRAIGHT RUN LONGER THAN 80'-0" BE PLACED WITHOUT A JOINT.
15. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED IN WALLS, OTHER THAN SHOWN IN DETAILS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING POURS TO MINIMIZE SHRINKAGE CRACKING. IN GENERAL, WALLS SHALL NOT BE POURED IN CONTINUOUS LENGTHS EXCEEDING 30 FEET WITHOUT CONTRACTION (CONTROL) JOINTS. THE LOCATION AND CONFIGURATION OF JOINTS EXPOSED TO VIEW SHALL BE COORDINATED WITH THE ARCHITECT. CONTRACTION JOINTS IN SLAB-ON-GRADE SHOULD NOT EXCEED 20 FEET IN ANY DIRECTION. TYPICAL CONTRACTION JOINT PATTERNS ARE INDICATED ON FOUNDATION PLANS.
17. IF SHALLOW FOUNDATION WALLS, EXTENDED PLATFORMS, ETC. ARE POURED SEPARATELY FROM THE MAIN FOUNDATION WALLS, PROVIDE 2½ INCH DEEP KEY (FULL AREA) AND DOWEL ALL REINFORCEMENT.
18. MASONRY DOWELS: PROVIDE, PLACE, AND SPACE TO MATCH MASONRY REINFORCING.

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AS WELL AS ALL APPROPRIATE AGENCIES AND MUNICIPALITIES TO AVOID DAMAGE TO UNDERGROUND UTILITIES PRIOR TO THE START OF ANY SITE WORK.
2. ALL EARTHWORK FOR BUILDING FOUNDATIONS SHOWN ON CONTRACT DOCUMENTS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS NOTED IN THE GEOTECHNICAL ENGINEERING REPORT DATED APRIL 24, 2025 PREPARED BY WELTI GEOTECHNICAL, P.C.
3. THE BOTTOM OF EXTERIOR FOOTINGS NOT ON SOLID ROCK SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. FOOTINGS ON LEDGE SHALL REST ON BROOM CLEAN SOLID ROCK IF SLOPE OF ROCK SURFACE EXCEEDS 1 ON 6, FOOTING SHALL BE DOWELED TO LEDGE.
4. THE SLAB-ON-GRADE BASE COURSE SHALL CONSIST OF A 12" MINIMUM THICKNESS OF COMPACTED STRUCTURAL FILL, UNLESS OTHERWISE NOTED.
5. BACKFILL FOR ALL BUILDING FOUNDATION WALLS SHALL BE RAISED SIMULTANEOUSLY ON THE INSIDE AND OUTSIDE OF THE WALL TO PROPOSED GRADES.
6. ALL FILL AND BACKFILL FOR FOOTINGS, SLABS, AND WALLS SHALL BE STRUCTURAL FILL, CONFORMING TO THE SPECIFICATIONS, WITH THE EXCEPTION OF BACKFILL AGAINST EXTERIOR SIDE OF FROST WALLS WHERE SUITABLE FILL MAY BE USED.
7. SIZES AND LOCATIONS OF ALL REQUIRED SLAB AND WALL PENETRATIONS FOR ALL TRADES SUCH AS PIPING SLEEVES SHALL BE COORDINATED BY THE CONTRACTOR WITH OTHER TRADES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, OPERATING AND MAINTAINING ALL EQUIPMENT NECESSARY TO DEWATER SITE EXCAVATIONS.
9. ALL BEARING MATERIAL SHALL BE INSPECTED BY A QUALIFIED TECHNICIAN PRIOR TO CONCRETE PLACEMENT. A QUALIFIED TECHNICIAN SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

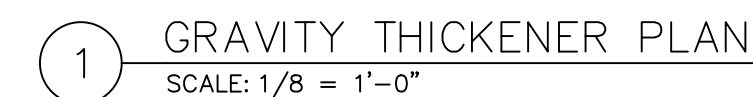


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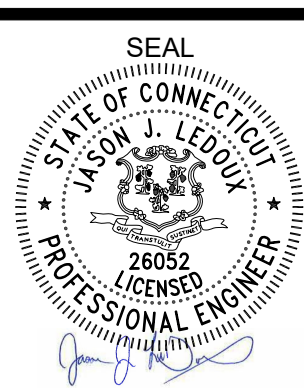
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No.	DATE	DESCRIPTION	DESIGNER	REVIEWER



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TOWN OF PUTNAM

STRUCTURAL NOTES AND DETAILS

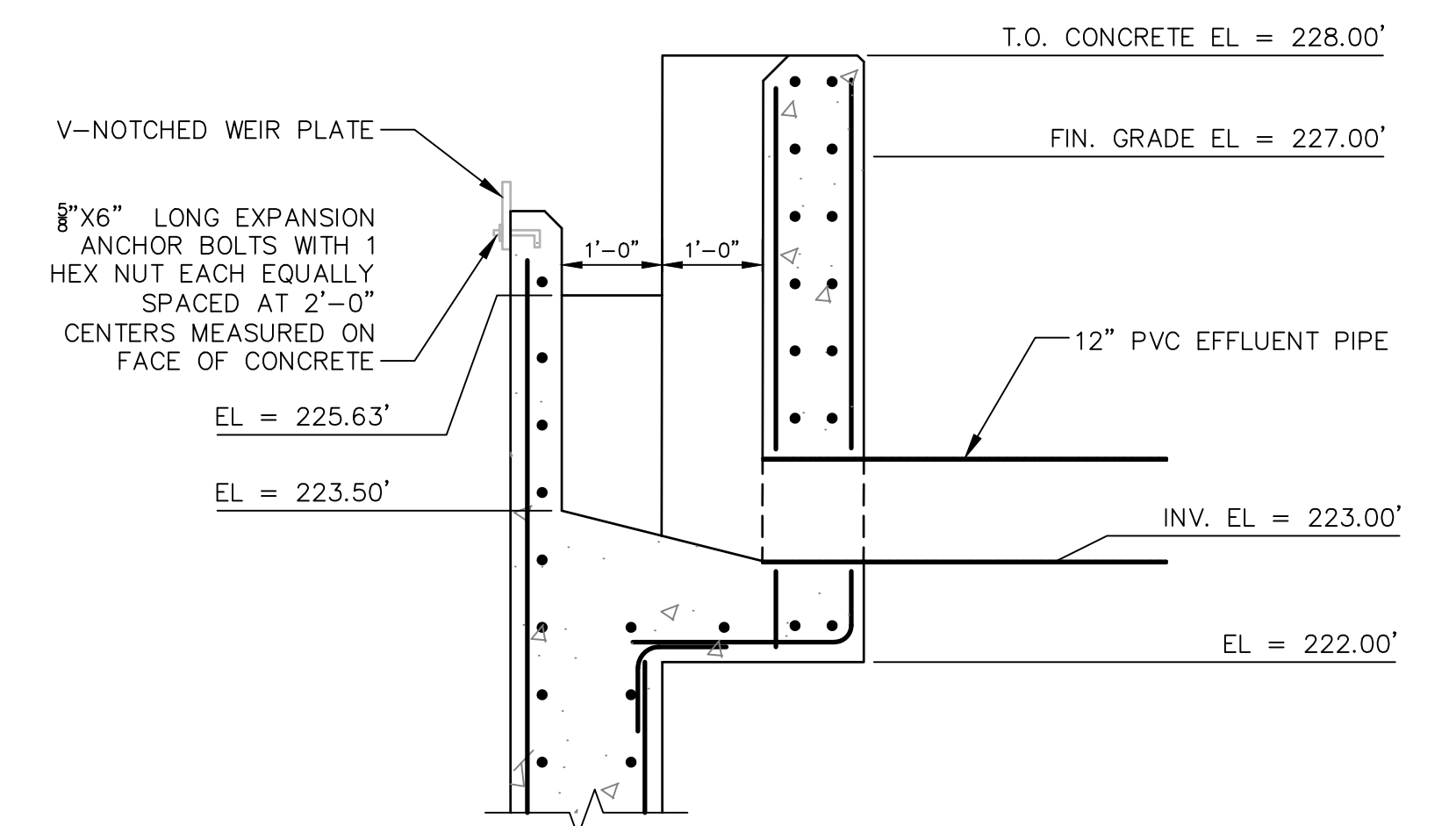
SLUDGE HANDLING IMPROVEMENTS

PUTNAM

CONNECTICUT

PROJ. No.: 199898386.P9
DATE: SEPTEMBER 2026

S-001



2 EFFLUENT PIPE SECTION
SCALE: N.T.S.

TOWN OF PUTNAM

GRAVITY THICKENER DETAILS

SLUDGE HANDLING IMPROVEMENTS

PUTNAM CONNECTICUT

PROJ. No.: 199898386.P91
DATE: SEPTEMBER 2026
S-301

GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND THE LATEST ADOPED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES AND AMENDMENTS.
2. THE CONTRACTOR SHALL OBTAIN AND BEAR THE COST OF ALL PERMITS REQUIRED TO PERFORM THE WORK.
3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC (EXCEPT WHERE DIMENSIONED) AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEM AND WORK. ALL LOCATIONS AND CONDUIT SIZING SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY FIELD CONDITIONS FOR OPTIMUM ROUTING AND SIZING OF CONDUITS.
4. EXACT LOCATION OF ALL EQUIPMENT, PANELS, PULL BOXES, FEEDERS, FIXTURES, ETC., SHALL BE APPROVED BY THE ENGINEER, ARCHITECT, AND OWNER PRIOR TO THE INSTALLATION OF THE SAME.
5. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO ELIMINATE ANY INTERFERENCE WITH PIPES, DUCTS, ETC.
6. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS.
7. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS, JUNCTION BOXES AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ALL ELECTRICAL WORK TO COMPRISE A COMPLETE AND OPERATING SYSTEM WHETHER SHOWN ON THE PLANS OR NOT.
8. CONDUITS AND WIRING SHALL BE INSTALLED CONCEALED WHEREVER POSSIBLE AND SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ALL BUILDING LINES.
9. ALL CONDUITS SHALL CONTAIN A GREEN GROUND WIRE. BOND ALL PANELS, CABINETS, ENCLOSURES, CONDUITS, ETC., AS REQUIRED. ALL GROUNDING CONDUCTORS SHALL BE CONTINUOUS TO MAIN GROUNDING SYSTEM.
10. ALL WIRE SHALL BE 600V INSULATED TYPES THWN OR XHHW, 75°C, COPPER, UNLESS OTHERWISE INDICATED.
11. BRANCH CIRCUIT WIRING SHALL BE MINIMUM 1/2" - 2#12, 1#12 GND. BRANCH CIRCUIT WIRING AND HOMERUNS WITH LENGTHS EXCEEDING 90 FEET FOR 120V AND 200 FEET FOR 277V SHALL USE #10 AWG, THOSE EXCEEDING 140 FEET FOR 120V SHALL USE #8 AWG CONDUCTORS. NO MORE THAN THREE PHASES MAY BE COMBINED IN A SINGLE HOMERUN AND EACH PHASE SHALL BE PROVIDED WITH AN INDIVIDUAL NEUTRAL.
12. ALL CUTTING, PATCHING AND FIRESTOPPING RELATED TO ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
13. PROVIDE CONDUIT SLEEVES FILLED WITH AN APPROVED FIRE-RESISTANT MATERIAL TO MAINTAIN RATING: WHERE FIRE-RATED WALLS, FLOORS OR CEILINGS ARE PENETRATED. APPROVED WATERTIGHT CONDUIT SLEEVES SHALL BE INSTALLED WHERE WALLS ARE PENETRATED EITHER ENTERING OR LEAVING A BUILDING.
14. FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES AND EQUIPMENT, REFER TO ARCHITECTURAL DRAWINGS. COLORS AND FINISHES OF DEVICES, COVER PLATES, LIGHTING FIXTURES, ETC., SHALL BE APPROVED BY THE ARCHITECT DURING THE SHOP DRAWING PHASE OF CONSTRUCTION.
15. COORDINATE CONDUITS ENTERING OR LEAVING THE BUILDING WITH THE SITE CONTRACTOR(S) BEFORE INSTALLATION. COORDINATE INVERTS WITH THE STRUCTURE AND SYSTEM REQUIREMENTS PRIOR TO INSTALLATION.
16. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES WITH THE ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND REFLECTED CEILING PLANS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DISPOSITION.
17. INSTALL ALL EQUIPMENT IN ACCESSIBLE LOCATIONS. WHERE EQUIPMENT MUST BE INSTALLED ABOVE AN INACCESSIBLE CEILING OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED AND THE LOCATION SHALL BE COORDINATED WITH THE ARCHITECT.

DEMOLITION NOTES:

3. EXISTING ELECTRICAL EQUIPMENT INDICATED ON PLANS HAS BEEN DERIVED FROM THE BEST AVAILABLE EXISTING DRAWINGS, VISUAL OBSERVATION AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS REQUIRED. ANY EQUIPMENT THAT IS NOT IDENTIFIED AND CONFLICTS WITH NEW CONSTRUCTION SHALL NOT BE DISCONNECTED AND SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER / ENGINEER FOR DISPOSITION.
2. WHERE WIRING IS TO BE REMOVED, RELOCATED OR RECONNECTED, THE CONTRACTOR SHALL TAKE PRECAUTIONS AND ASSUME THAT THE CIRCUIT MAY BE ACTIVE. CONTRACTOR SHALL TEST, VERIFY AND SECURE ALL CIRCUITS BEFORE REMOVAL. UNWIRING WIRING SHALL BE IDENTIFIED. ANY WIRING TO REMAIN SHALL BE VERIFIED BY THE CONTRACTOR, TAGGED AND IDENTIFIED AS REQUIRED.
3. EXISTING ELECTRICAL EQUIPMENT AND DEVICES TO BE REMOVED SHALL BE REMOVED COMPLETELY INCLUDING ALL CONDUIT, WIRING AND ASSOCIATED APPURTENANCES BACK TO EXISTING POWER SOURCE OR TO THE NEAREST ASSOCIATED JUNCTION BOX. REMAIN TO REMAIN IN SERVICE. IF REMOVED BACK TO EXISTING SOURCE, LABEL CIRCUIT BREAKER AS SPARE. EXISTING CONDUITS TO BE REMOVED, WHICH ARE EMBEDDED IN A CONCRETE SLAB, SHALL HAVE THE WIRING REMOVED AND THE CONDUIT CUT FLUSH WITH CONCRETE AND SEALED IN AN APPROVED MANNER.
4. EXISTING ELECTRICAL EQUIPMENT AND WIRING TO REMAIN SHALL BE PROTECTED FROM DAMAGE AS REQUIRED DURING THE CONSTRUCTION PERIOD AND LEFT IN GOOD WORKING ORDER AT COMPLETION. ANY EQUIPMENT DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
5. OWNER AND CODE REQUIRED SYSTEMS THAT ARE REQUIRED TO REMAIN ACTIVE DURING CONSTRUCTION SHALL BE TEMPORARILY WIRED AS REQUIRED AND SHALL REMAIN ACTIVE THROUGHOUT THE CONSTRUCTION PERIOD UNTIL NEW SYSTEMS ARE INSTALLED, TESTED AND ACCEPTED.
6. IN CONDITIONS WHERE IN THE OPINION OF THE CONTRACTOR IT IS NOT CLEAR WHETHER EXISTING ELECTRICAL EQUIPMENT IS TO BE REMOVED OR REMAIN, IT SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND FINAL DECISION.
7. ANY DISRUPTION OF ANY ELECTRICAL SERVICE NECESSITATED BY THE ELECTRICAL RENOVATION SHALL BE COORDINATED WITH THE OWNER. A MINIMUM OF 72 HOURS NOTICE SHALL BE GIVEN PRIOR TO THE DISCONNECTION OF ANY SERVICE. ANY DISRUPTION OF FIRE ALARM SERVICE SHALL BE COORDINATED WITH THE OWNER AND FIRE DEPARTMENT.
8. EXISTING ELECTRICAL EQUIPMENT REMOVED SHALL BE BROKEN DOWN INTO MANAGEABLE LENGTHS FOR STORAGE, HANDLING AND DISPOSAL. EQUIPMENT REMOVED OF MATERIAL VALUE SHALL BE TURNED OVER TO THE OWNER FOR HIS FINAL DISPOSITION.
9. ELECTRICAL RENOVATION WORK SHALL BE ACCOMPLISHED IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST ADOPED EDITION OF THE NATIONAL ELECTRICAL CODE.
10. DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE ARCHITECTURAL, HVAC, PLUMBING AND FIRE PROTECTION PLANS.

POWER CONNECTIONS

POWER CONNECTIONS	
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
	SINGLE RECEPTACLE MOUNTED AT 16" AFF TO CENTER OF BOX.
	DUPLEX RECEPTACLE MOUNTED AT 16" AFF TO CENTER OF BOX.
	DUPLEX RECEPTACLE SPLIT WIRED MOUNTED AT 16" AFF TO CENTER OF BOX.
	DUPLEX RECEPTACLE CIRCUITED TO EMERGENCY POWER MOUNTED AT 16" AFF TO CENTER OF BOX.
	QUADPLEX RECEPTACLE MOUNTED AT 16" AFF TO CENTER OF BOX.
	QUADPLEX RECEPTACLE FOR COMPUTERS MOUNTED AT 16" AFF TO CENTER OF BOX.
	SPECIAL RECEPTACLE FOR SPECIFIED EQUIPMENT. COORDINATE WITH OTHER TRADES FOR MOUNTING LOCATION.
	SWITCH WITH PILOT LIGHT
	RECEPTACLES SHOWN IN BOX WILL BE FLOOR MOUNTED
	RECEPTACLES SHOWN IN CIRCLE WILL BE CEILING MOUNTED
	FIREMATIC MOUNTED ON CEILING ABOVE HEATING EQUIPMENT. WIRE IN SERIES WITH CONTROL CIRCUIT.
	EMERGENCY POWER SHUT OFF SWITCH
	ELECTRICAL METER MOUNTED PER UTILITY COMPANY REQUIREMENTS.
	CONTACTOR
	MAGNETIC MOTOR STARTER
	MANUAL DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	JUNCTION BOX
	CEILING MOUNTED DOWN DRAFT FAN
	BRANCH CIRCUIT HOMERUN "X" INDICATES CIRCUIT NUMBER "Y" INDICATES POWER PANEL

SUBSCRIPTS

"n" = NUMBER EQUALS ALTERNATE MOUNTING HEIGHT IN INCHES.
INTERIOR WILL BE TO CENTER OF BOX AFF.
EXTERIOR WILL BE TO CENTER OF BOX AFG.

D = DEDICATED CIRCUIT TO THE DEVICE.

GFI = GROUND FAULT INTERRUPT PROTECTION.

WP = WEATHERPROOF BOX PER SPECIFICATIONS.

LIGHTING

LIGHTING	
	EXTERIOR LIGHT AND POLE

-				
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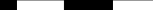
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TOWN OF PUTNAM

ELECTRICAL GENERAL NOTES AND LEGENDS

SLUDGE HANDLING IMPROVEMENTS

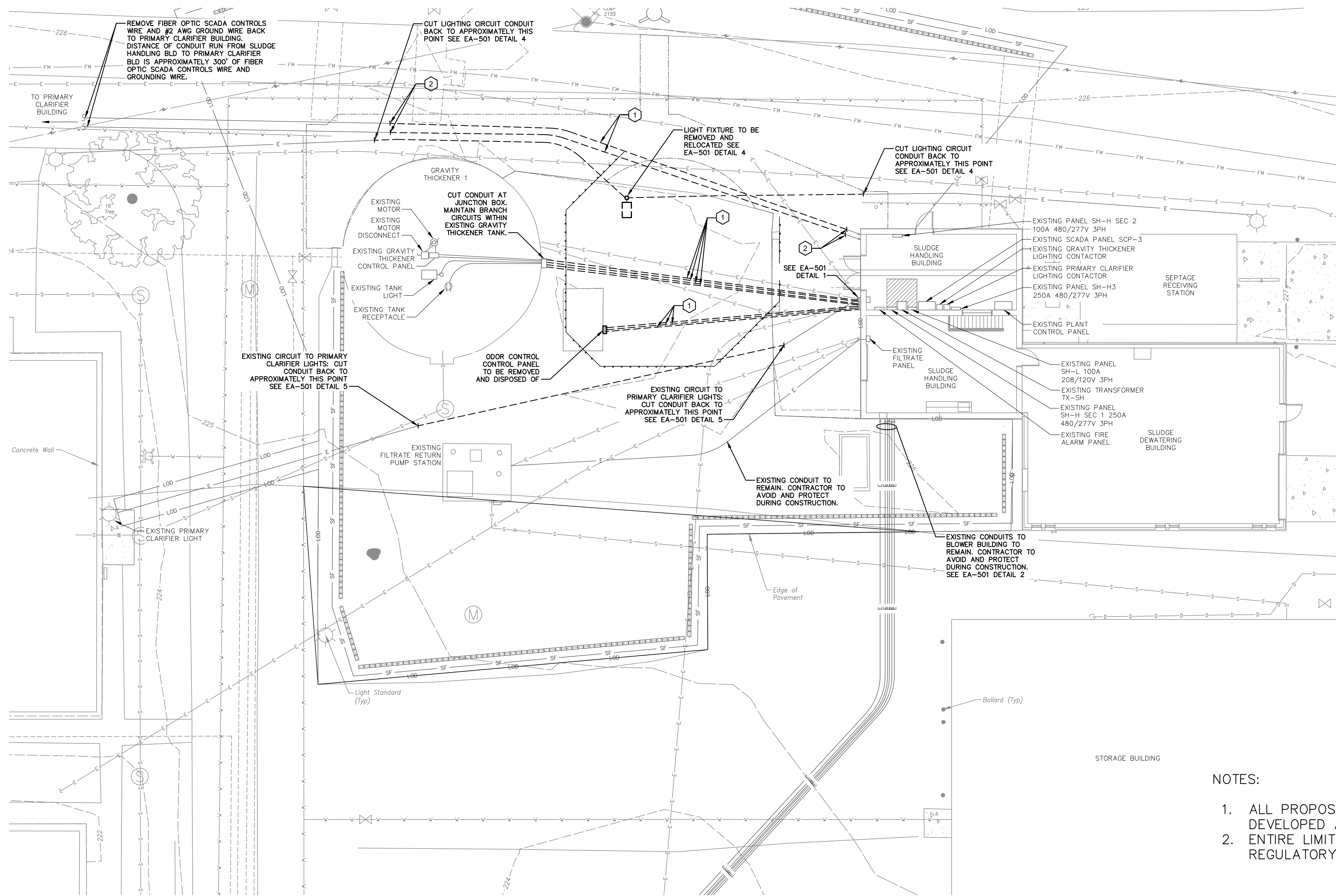
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PROJ. No.: 1998386.P91
DATE: SEPTEMBER 2023

DATE: SEPTEMBER 2020

EA-001

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LINETYPE LEGEND	
	EXISTING TO REMAIN
	DEMOLITION

- KEY NOTES:
- 1 REMOVE AND DISPOSE OF CONDUIT AND CONDUCTORS BACK TO SOURCE SEE EA-501 DETAIL 1
 - 2 SEE EA-502 DETAIL 2

- NOTES:
1. ALL PROPOSED IMPACTS ARE LIMITED TO PREVIOUSLY DEVELOPED AREAS.
 2. ENTIRE LIMIT OF DISTURBANCE IS LOCATED WITH A REGULATORY FLOOD ZONE.

1 ELECTRICAL SITE DEMOLITION PLAN
SCALE: SCALE: 1" = 10'

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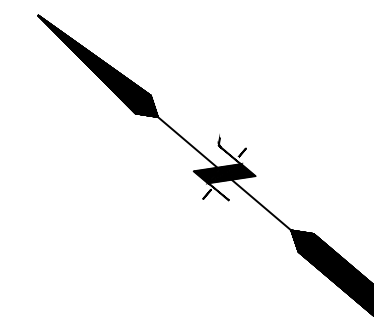
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TOWN OF PUTNAM
ELECTRICAL SITE PLAN DEMOLITION
SLUDGE HANDLING IMPROVEMENTS
CONNECTICUT

PROJ. No.: 1998386.P91 DATE: SEPTEMBER 2026
EA-101



_____ EXISTING TO REMAIN

_____ NEW WORK

- ① 2" 2^{CV} WITH 2 GRAVITY THICKENER MOTOR CIRCUITS SH-H SEC1, 32,34,36 AND SH-H3, 8,10,12. TWO LIGHTING CIRCUITS SH-H SEC1, 1 AND SH-H SEC1, 4, TWO RECEPTACLE CIRCUITS SH-L, 1 AND SH-L, 22 AND ONE SENSOR INTERFACE CIRCUIT SH-L,28.
- ② 2" 2^{CV} WITH 24 SCADA CONTROL CONDUCTORS
- ③ 1" 1^{CV}, WITH ONE GRAVITY THICKENER 1 MOTOR CIRCUIT SH-H SEC1, 32,34,36, ONE LIGHTING CIRCUIT SH-H SEC1, 1, AND ONE RECEPTACLE CIRCUIT SH-L, 1.
- ④ 1" 1^{CV}, WITH ONE GRAVITY THICKENER 2 MOTOR CIRCUIT SH-H3, 8,10,12 ONE LIGHTING CIRCUIT SH-H SEC1, 4, AND ONE RECEPTACLE CIRCUIT SH-L, 22.
- ⑤ 1" 1^{CV} WITH 10 SCADA CONTROL CONDUCTORS
- ⑥ SEE EA-502 DETAIL 2
- ⑦ SLUDGE SENSOR CONTROL INTERFACE MOUNTED ON UNISTRUT SEE EA-502 DETAIL 3
- ⑧ 1" 1^{CV}, WITH ONE SLUDGE SENSOR CONTROL INTERFACE CIRCUIT SH-L, 28
- ⑨ 1" 1^{CV}, WITH 4 SCADA CONTROL CONDUCTORS
- ⑩ SEE EA-502 DETAIL 3 FOR WIRING TO EACH SLUDGE SENSOR.

1. FOR GRAVITY THICKENER 2 MOTOR, PROVIDE A 20A 3P BREAKER IN PANEL SH-H3, USING SPARE SPACES 8,10,12.
2. FOR GRAVITY THICKENER 2 RECEPTACLE, PROVIDE A 20A 1P BREAKER IN PANEL SH-L, USING SPARE SPACE 22.
3. FOR GRAVITY THICKENER 2 LIGHT FIXTURE, PROVIDE A 20A 1P BREAKER IN PANEL SH-H SECT, USING SPARE SPACE 4.
4. FOR ALL NEW CONDUIT SEE EA-501 DETAIL 3 FOR BURIED CONDUIT DETAIL
5. FOR WIRE AND CONDUIT SIZING REFER TO PANELBOARD SCHEDULES ON EA-501.

THIS INCLUDES BUT IS NOT LIMITED TO ALL SYSTEMS OF WIRING SUCH AS POWER, LIGHTING, CONTROLS, AND TELECOMMUNICATION SYSTEMS.

1. INTERIOR OF ALL BUILDINGS SHALL BE COPPER CONDUCTORS/FO CABLES IN IMC
2. EXTERIOR UNDERGROUND HORIZONTAL RUNNINGS SHALL BE COPPER CONDUCTORS/FO CABLES IN SCHEDULE 40 PVC CONDUIT.
3. EXTERIOR UNDERGROUND SWEEPS AND VERTICAL RISE SHALL BE COPPER CONDUCTORS/FO CABLES IN IMC CONDUIT.
4. EXTERIOR EXPOSED SHALL BE COPPER CONDUCTORS/FO CABLES IN IMC CONDUIT.
5. WHERE CONDUITS RISE UP TO A CLASS 1, DIV 2 OR 2 ENVIRONMENT, SEAL OFFS SHALL BE IN IMC/FO

1. ALL PROPOSED IMPACTS ARE LIMITED TO PREVIOUSLY DEVELOPED AREAS.
2. ENTIRE LIMIT OF DISTURBANCE IS LOCATED WITH A REGULATORY FLOOD ZONE.

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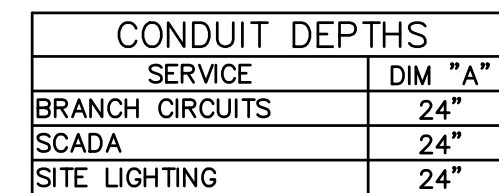
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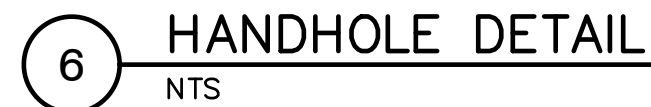
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DATE: SEPTEMBER 2026

EA-102



PROVIDE IN-GROUND HANDHOLE BOX:
- HIGH DENSITY REINFORCED
CONCRETE
- H-20 RATING
- STEEL CHECKER COVER, BOLT DOWN
EQUAL TO OLDCASTLE PRECAST MODEL B1730

SEAL

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PUTNAM

CONNECTICUT

EA-501



SCHEDULE FOR PANEL SH-H3 LOCATED IN SLUDGE HANDLING BUILDING										
Panel Designation: SH-H3			Frame Size: MLO/MB (Amps): 250			Volts: 277/480V				
Mounting: Surface			A.I.C.:			Phase: 3				
TVSS Type:						Wire: 4				
CKT	DESCRIPTION	VA	VOLTS	PH	WIRE	CONDUIT	AMPS	POLES	REMARKS	
1,3,5	Screen Motor		480	1			20	3		
2,4,6	Unamed		480	1			20	3		
7,9,11	Heater		480	1			20	3		
8,10,12	Gravity Thickener #2	11,626	480	3	#12 AWG	1"	NOTE 1	20	3	New Breaker and Circuit
13,15,17	Moyno Pump in Basement	6,394	480	3	#10 AWG	3/4"	NOTE 1	30	3	New Breaker and Circuit
14,16,18	Snare Space							3		

1 PANELBOARD SCHEDULES

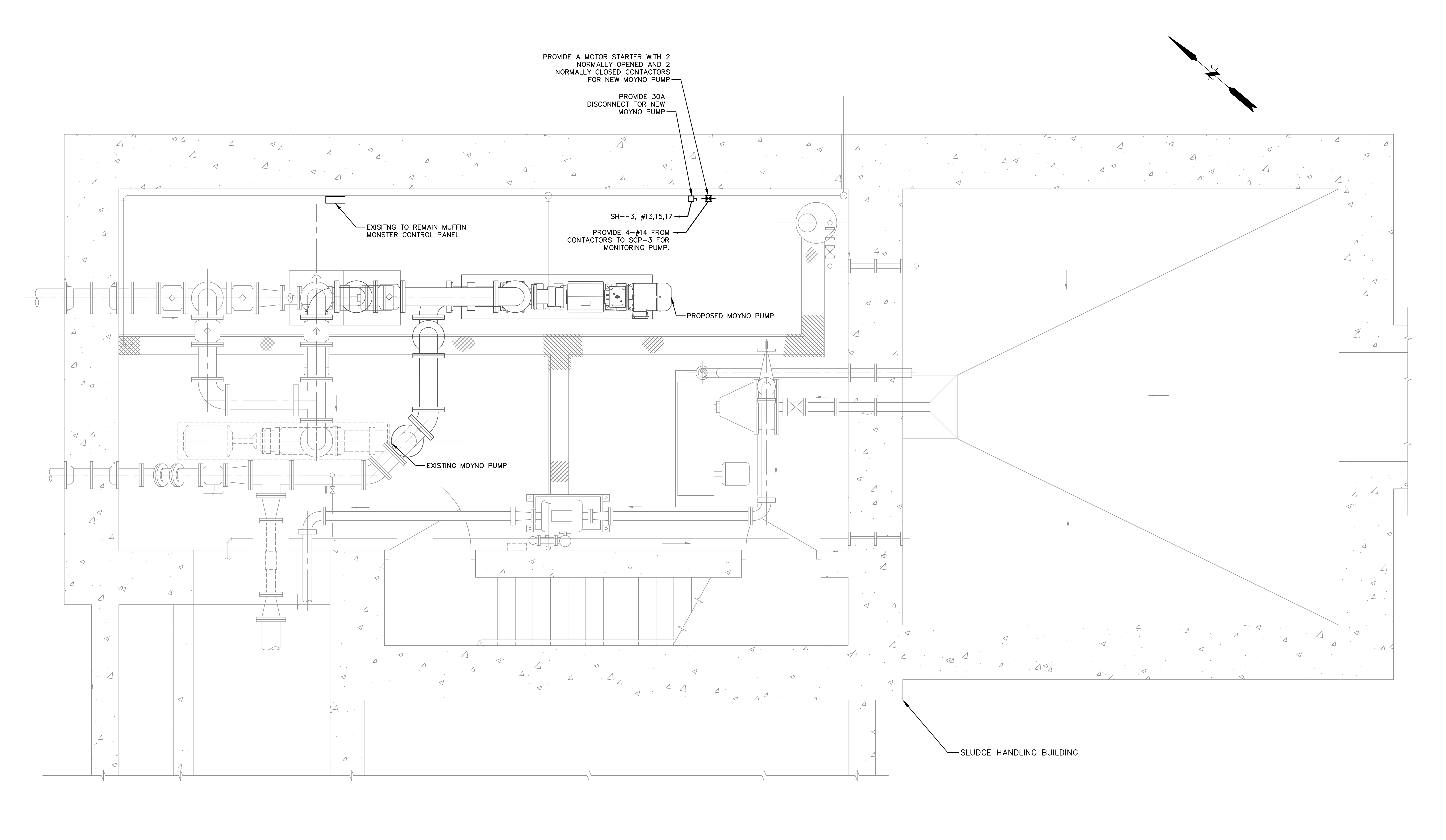
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PUTNAM

CONNECTICUT

EA-502

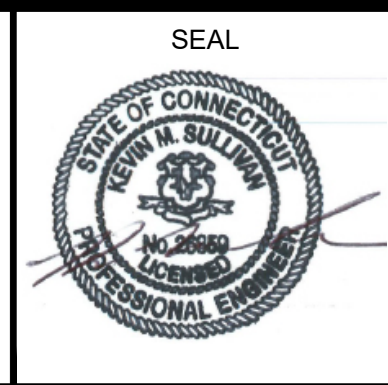
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PC3: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3: STB/CTB: FO STB
MS VIEW: LAYER STATE:



1 ELECTRICAL SLUDGE HANDLING BUILDING MOYNO PUMP INSTALLATION NEW WORK PLAN
SCALE: SCALE: 1" = 20'

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL



SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: -
DATUM:
HORZ.: -
VERT.: -
0 10' 20' 40'
GRAPHIC SCALE

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TOWN OF PUTNAM
SLUDGE HANDLING BUILDING
MOYNO PUMP INSTALLATION SITE PLAN
SLUDGE HANDLING IMPROVEMENTS
PUTNAM
CONNECTICUT

PROJ. No.: 1998386.C91
DATE: SEPTEMBER 2026
EA-103