






**LIGHTING NOTES:**

1. PROPOSED LIGHTING AS MANUFACTURED BY SELUX LIGHTING. PROPOSED POLE LENGTHS VARY, SEE LIGHTING CHART.
2. GRID NUMBERS SHOWN REPRESENT FOOT CANDLE VALUES AT GROUND PLANE.
3. THE LIGHTING FIXTURES, SURFACE LOCATIONS AND ASSOCIATED PHOTOMETRIC VALUES ARE IDENTIFIED BY THE CHAZEN COMPANIES. DETAILED DESIGN OF THE LIGHTING SPECIFICATIONS, FOUNDATION DESIGN, LIGHTING CONDUIT, WIRING, AND CONTROL CIRCUITRY SHALL BE BY OTHERS.
4. IF DISCREPANCIES EXIST BETWEEN THE LIGHTING SCHEDULE AND LIGHTING PLAN, THE PLAN SHALL Dictate.
5. THE EXISTING STREET LIGHTS IN THE RIGHT-OF-WAYS HAVE NOT BEEN INCLUDED IN THIS PHOTOMETRIC ANALYSIS. THE LIGHT LEVELS SHOWN HEREON REFLECT THE PROPOSED LIGHTING ON SITE.

**LIGHTING LEGEND:**

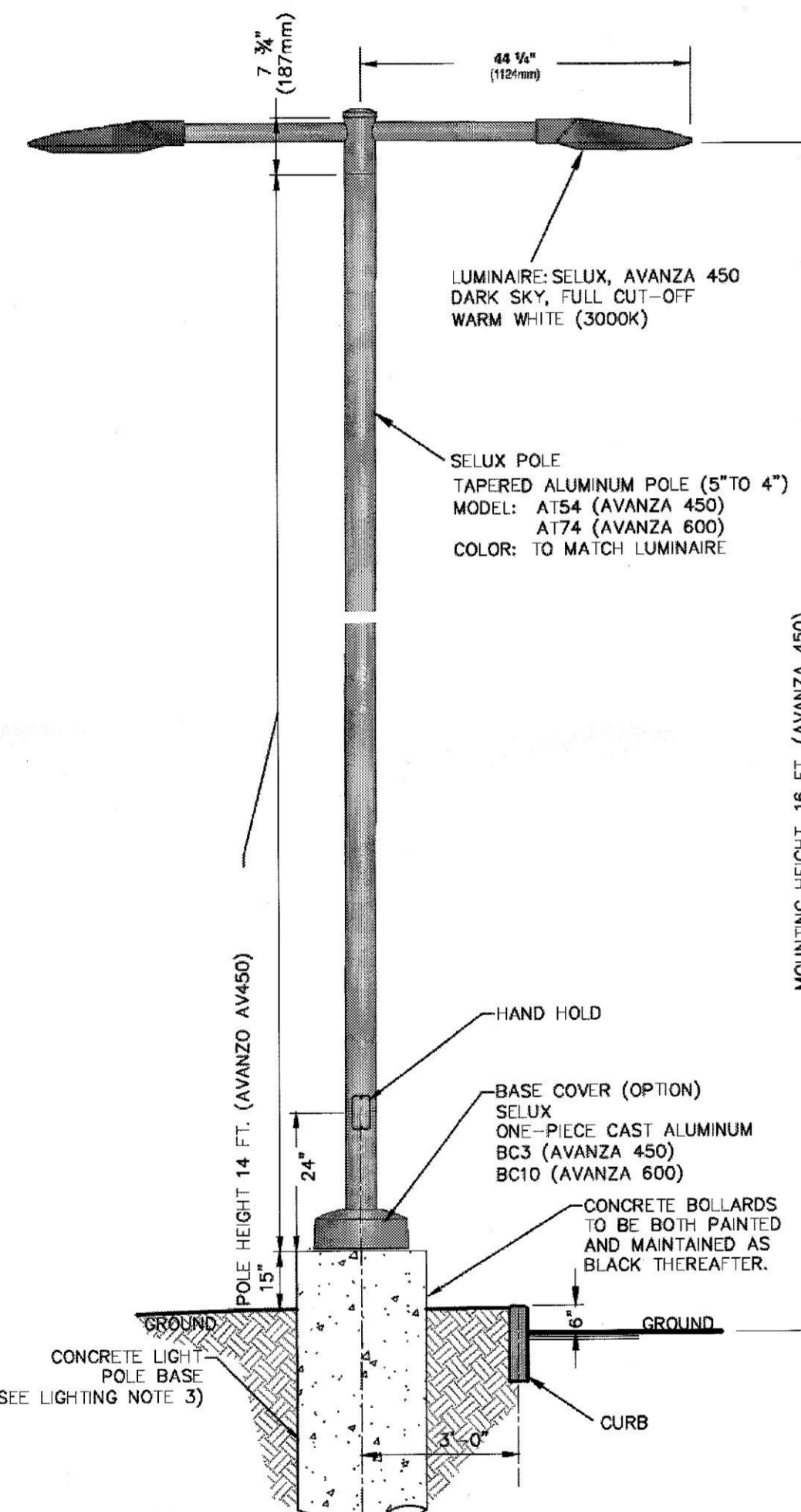
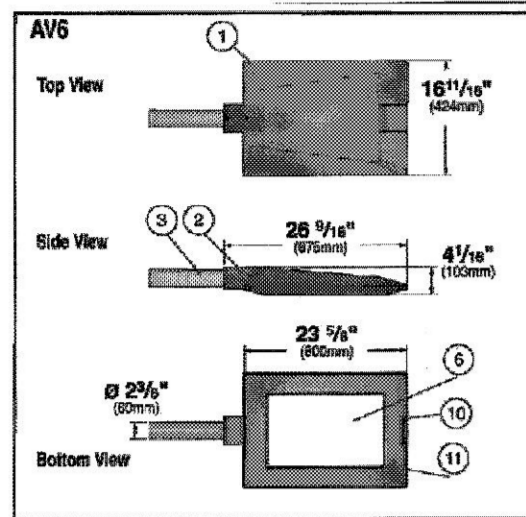
-  PROPOSED BUILDING
-  LIGHT WALL PACK
-  POST AND LUMINAIRE
-  PENDANT MOUNTED LUMINAIRE / POLE
-  CEILING-MOUNTED CANOPY LIGHT FIXTURE

**LIGHTING STATISTICS**

WWTP SITE:	AVERAGE	MAXIMUM	MINIMUM	AVE./MIN
WWTP - PAVEMENT ONLY	0.9 fc	5.0 fc	0.0 fc	N/A

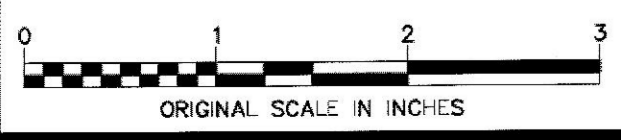
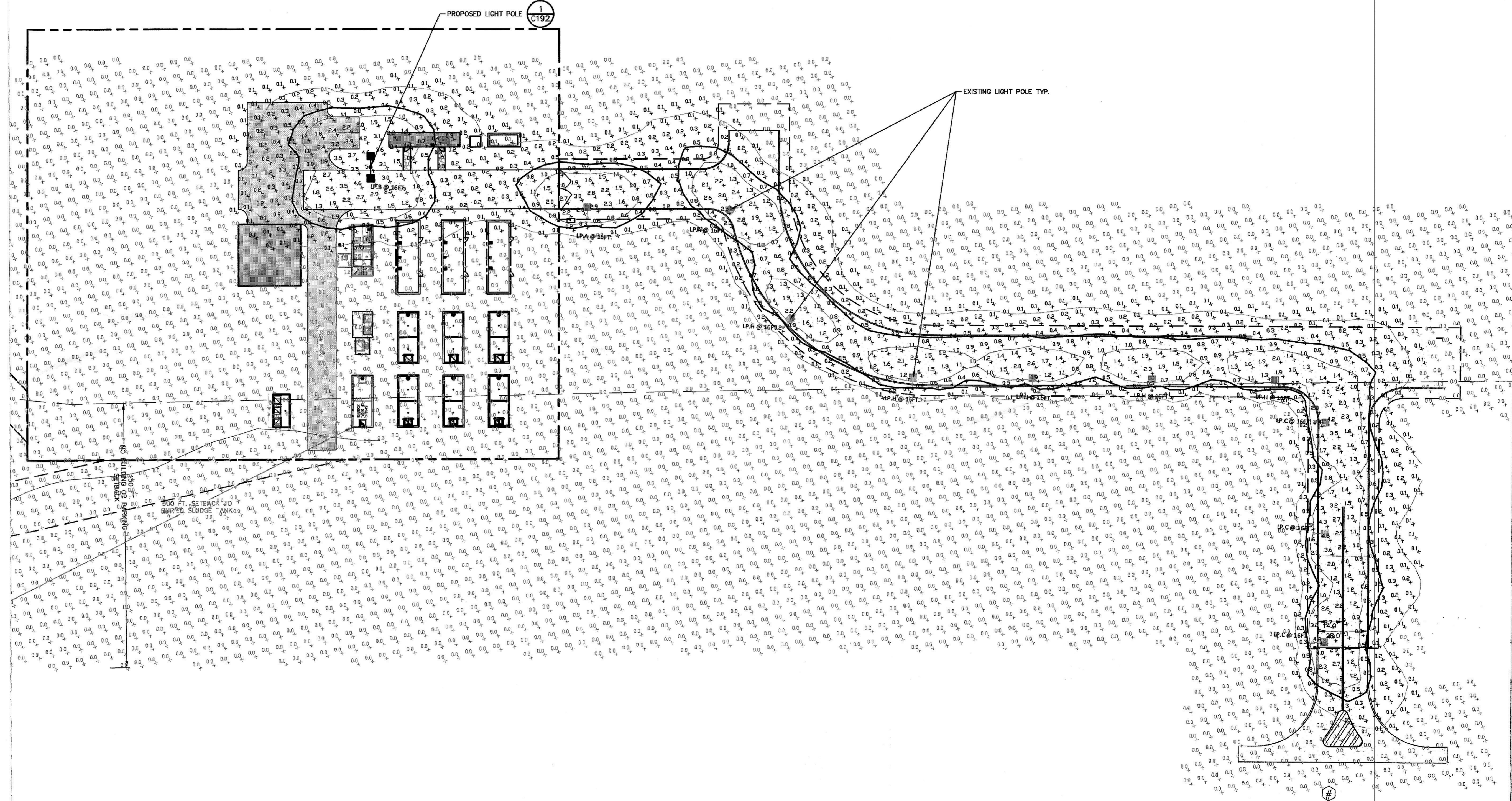
**LIGHTING SCHEDULE** (INCLUDES BOTH HOTEL SITE AND WWTP SITE)

QUANTITY	DESIGNATION	MANUFACTURER	MODEL: CATALOG NUMBER	MOUNT HEIGHT	LIGHTING TYPE	WATTS	TOTAL LUMENS	REMARKS	LIGHT TEMPERATURE
PROPOSED	1	SELUX	AVANSA 600: AV6-L2-0-L1700-R3W-40-120	16 FT.	LED	56W	4275	TWO LONG ARM MOUNTS AT 180°	3000 K
EXISTING	2	SELUX	AVANSA 450: AV4-L1-0-L105-R3W-40-120-SX 937 42-9/CF	16 FT.	LED	56W	4275	SINGLE LONG ARM MOUNT	3000 K
EXISTING	3	SELUX	AVANSA 450: AV4-L1-0-L105-R3N-40-120-SX 937 42-9/CF	16 FT.	LED	56W	4275	SINGLE LONG ARM MOUNT	3000 K
EXISTING	5	SELUX	AVANSA 450: AV4-L1-0-L105-R3W-40-120-IHS	16 FT.	LED	56W	2545	SINGLE LONG ARM MOUNT WITH HOUSE SIDE SHIELD	3000 K



- NOTES:**
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
  2. ALL EXCAVATIONS SHALL BE BACKFILLED WITH STRUCTURAL FILL AND COMPACTED TO 95% OF MAXIMUM MATERIAL DENSITY.
  3. ELECTRICAL POWER SUPPLY, WIRE, AND CONDUIT BY OTHERS.

**PARKING AREA LIGHTING FIXTURE DETAIL**  
 SCALE: N.T.S.



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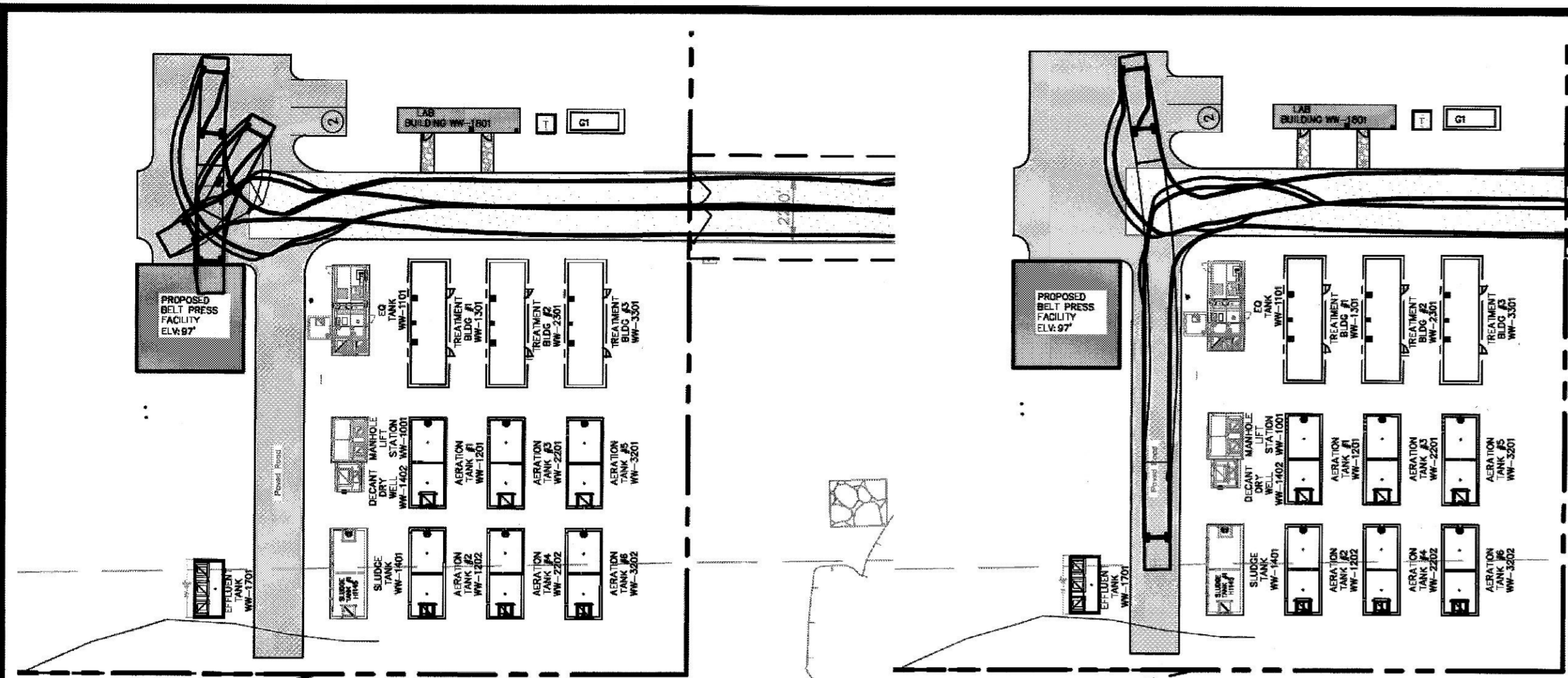
rev.	date	description
2	7/7/21	REVISED PER DDDO! AND DCWA COMMENTS
1	4/19/21	REVISED PER PLANNING BOARD COMMENTS

BELFIELD AT HISTORIC HYDE PARK

**AMENDED WWTP SITE PHOTOMETRIC LIGHTING PLAN**

TOWN OF HYDE PARK, DUTCHESS COUNTY, NEW YORK

designed	checked
TCC	PB
date 3/23/21	scale 1"=30'
project no. 81235.09	
sheet no. <b>C180B</b>	



**BELT PRESS GARBAGE TRUCK PATH**  
SCALE: 1"=40'

**WWTP SEWAGE TRUCK PATH**  
SCALE: 1"=40'

Rear-Load Garbage Truck  
Overall Length 35.000ft  
Overall Width 8.375ft  
Overall Body Height 10.546ft  
Min Body Ground Clearance 1.000ft  
Track Width 8.375ft  
Lock-to-lock time 6.00s  
Curb to Curb Turning Radius 29.300ft

**REAR-LOAD GARBAGE TRUCK**  
SCALE: NOT TO SCALE

**LEGEND:**

**LAYOUT:**

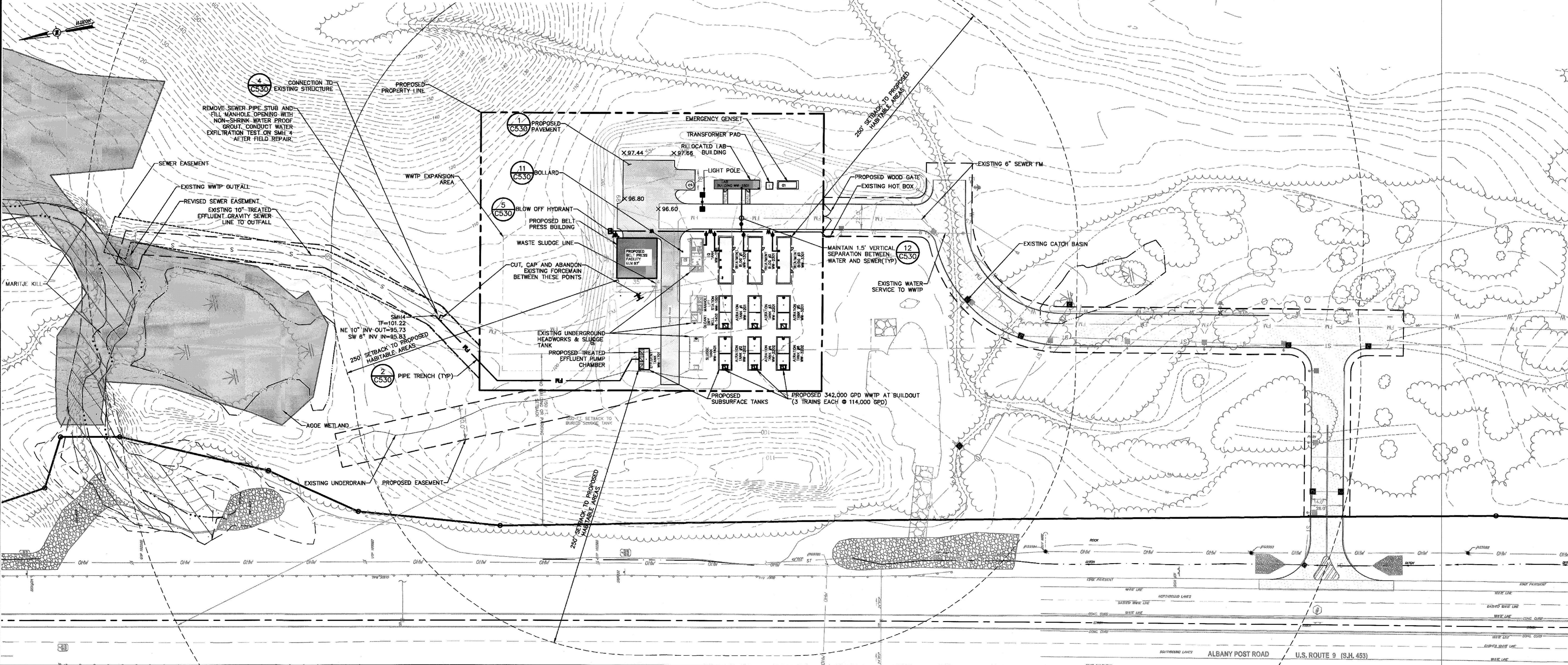
- SETBACK LINE
- CONC. CURB
- LOT LINE
- SETBACK LINE
- BUILDING
- CURB/WING GUTTER
- ASPHALT PARKING AREA
- SANITARY SEWER LINE
- FORCE MAIN
- WATER LINE
- STORM DRAIN LINE
- CULVERT W/ END SECTION
- SPOT ELEVATIONS
- EXISTING TREE LINE

**SYMBOLS:**

- CATCH BASIN
- FLARED END SECTION
- DRAINAGE MANHOLE
- SANITARY MANHOLE
- WATER SHUT OFF VALVE
- WATER VALVE
- HYDRANT
- POST AND LUMINAIRE
- PARKING COUNT

**NOTES:**

1. ALL UNDERGROUND TANKS MAY BE INSTALLED AT ONE TIME, AND THE TREATMENT TRAINS INSTALLED AS NEEDED.



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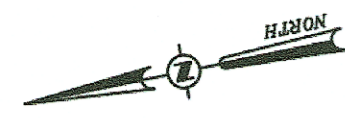
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2	7/2/21	REVISED PER DCOOH AND DCOWA COMMENTS
1	4/19/21	REVISED PER PLANNING BOARD COMMENTS

BELFIELD AT HISTORIC HYDE PARK

**AMENDED SITE AND UTILITY PLAN**

TOWN OF HYDE PARK, DUTCHESS COUNTY, NEW YORK

designed	checked
LTN	PB
date	scale
3/23/21	1"=40'
project no.	
81235.09	
sheet no.	
<b>C190A</b>	



**LEGEND:**

**LAYOUT:**

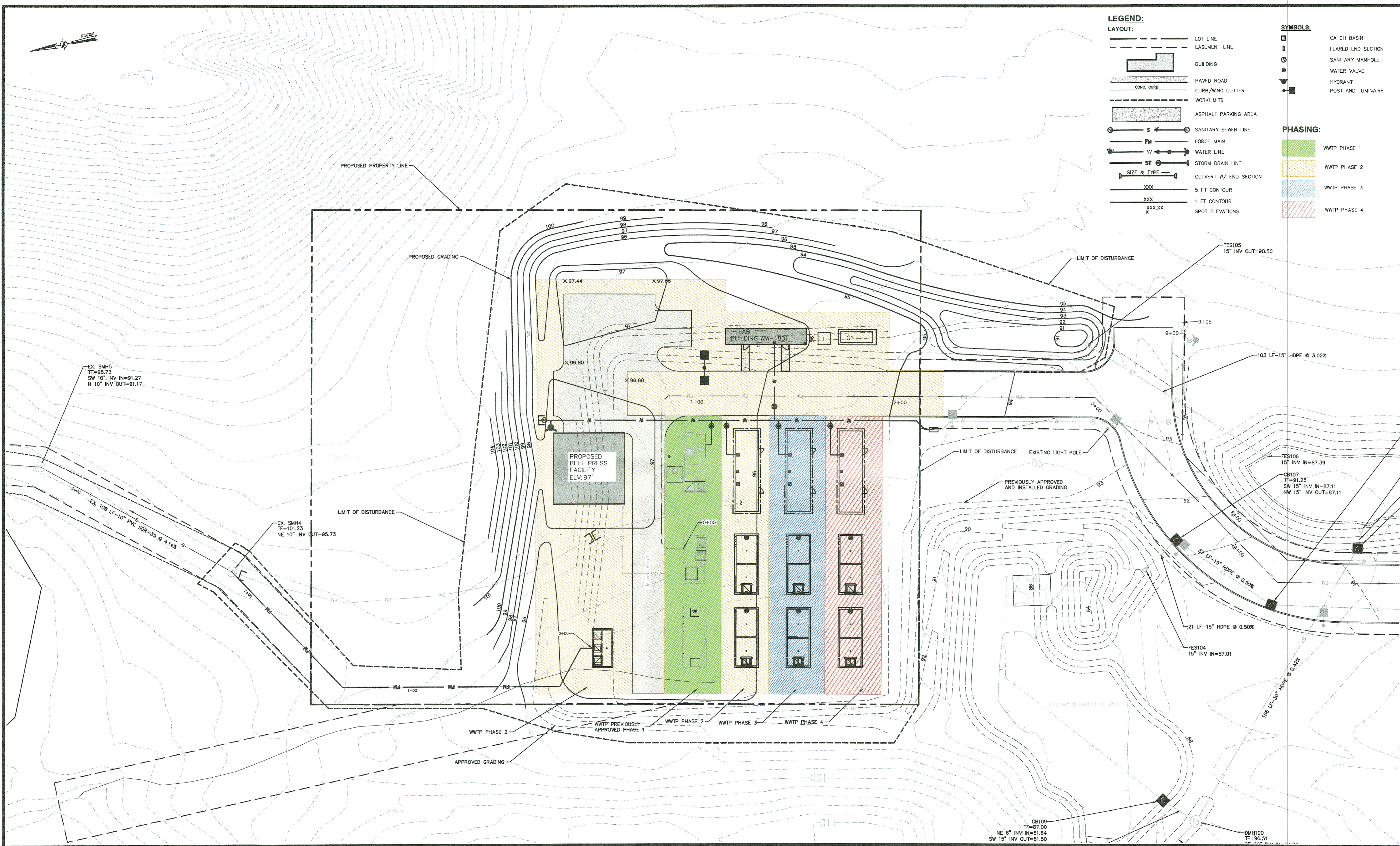
- LOT LINE
- EASEMENT LINE
- BUILDING
- PAVED ROAD
- CURB/WING GUTTER
- WORKLIMITS
- ASPHALT PARKING AREA
- SANITARY SEWER LINE
- FORCE MAIN
- WATER LINE
- STORM DRAIN LINE
- CULVERT W/ END SECTION
- 5 FT CONTOUR
- 1 FT CONTOUR
- SPOT ELEVATIONS

**SYMBOLS:**

- CATCH BASIN
- FLARED END SECTION
- SANITARY MANHOLE
- WATER VALVE
- HYDRANT
- POST AND LUMINAIRE

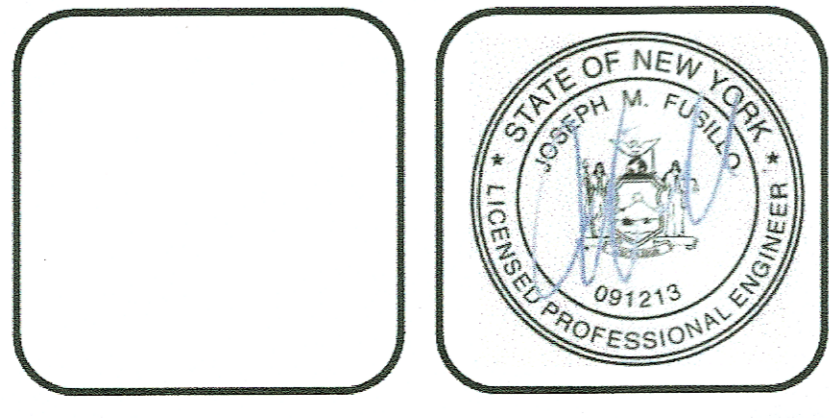
**PHASING:**

- WWTP PHASE 1
- WWTP PHASE 2
- WWTP PHASE 3
- WWTP PHASE 4



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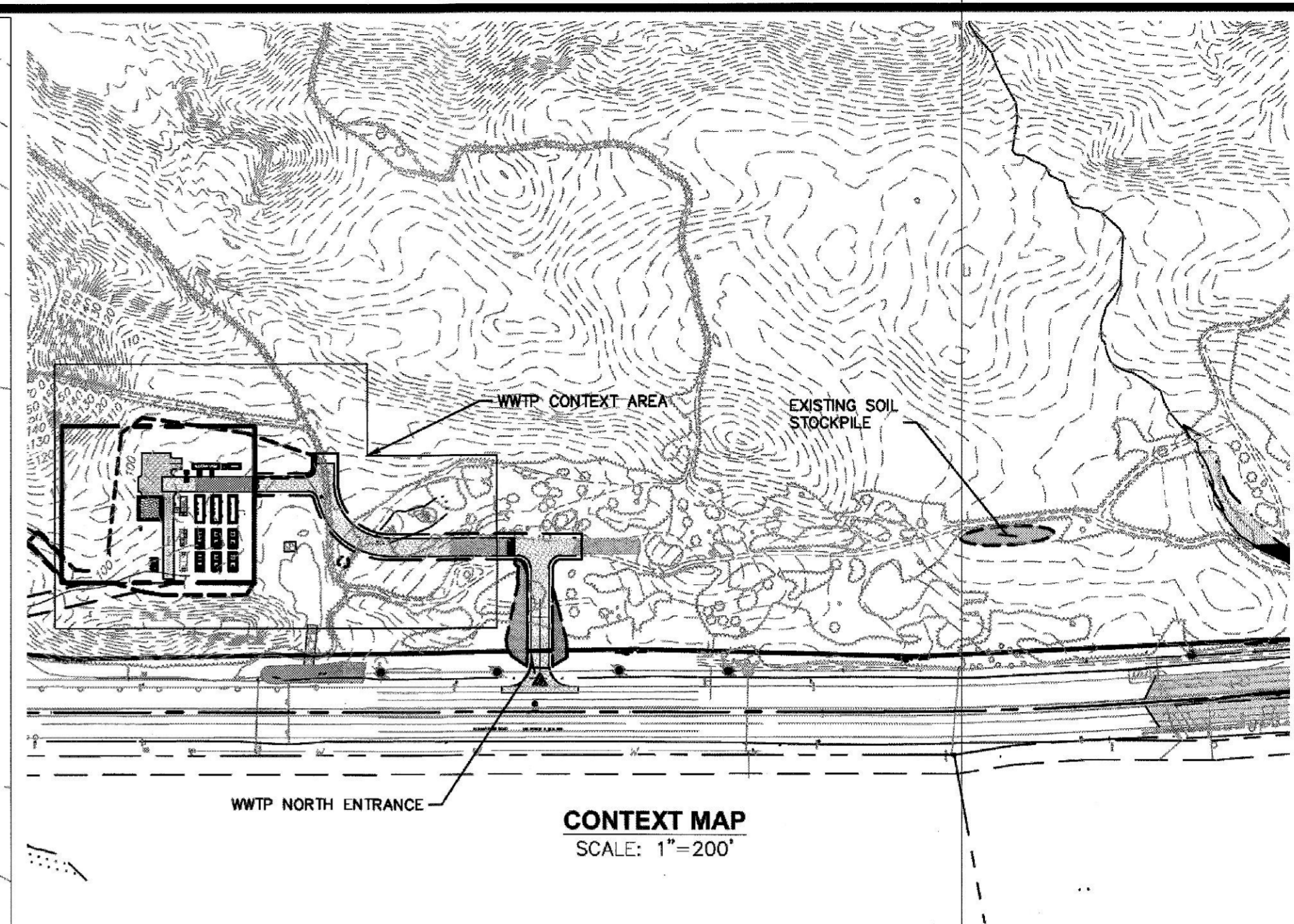
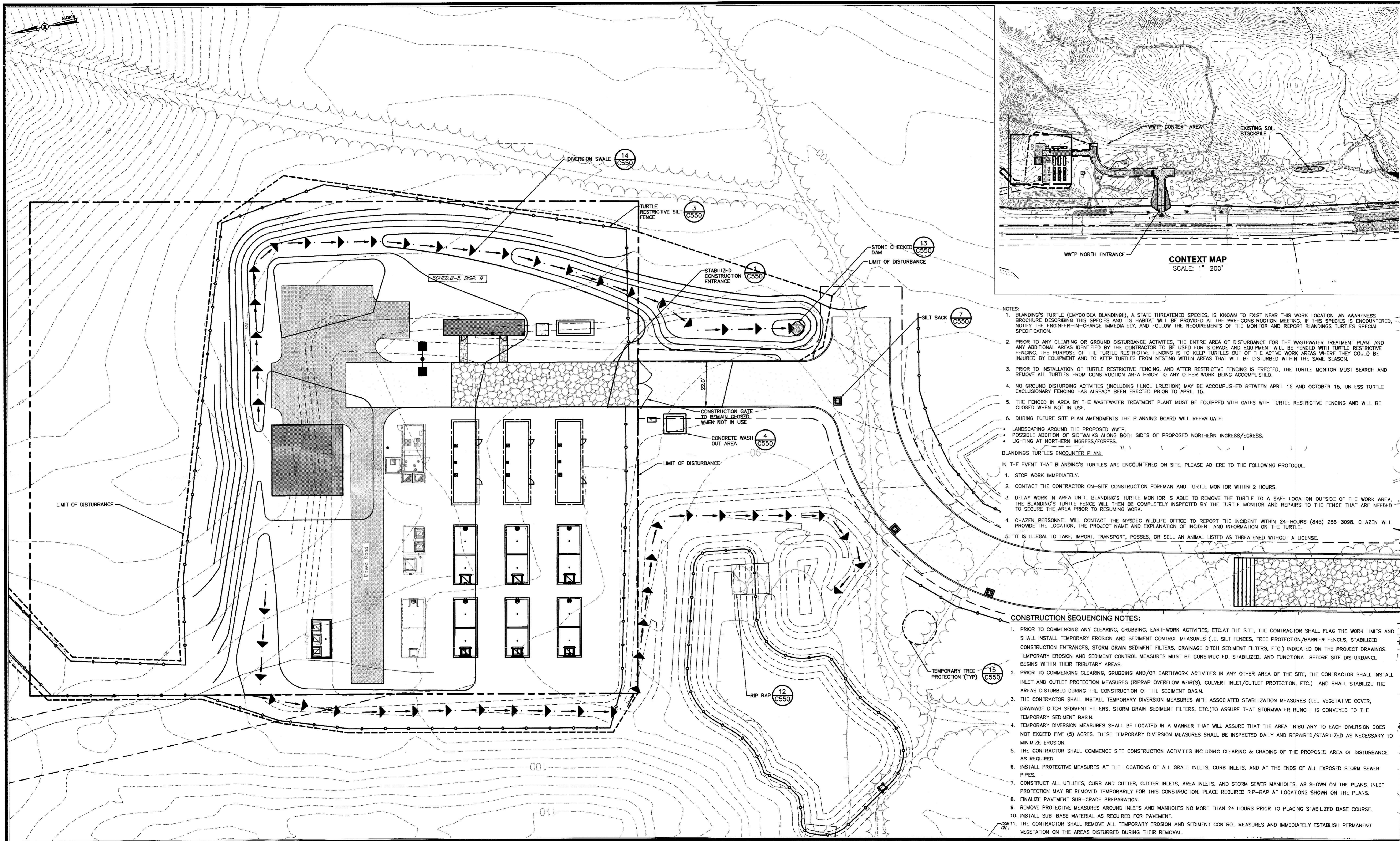
rev.	date	description
2	7/2/21	REVISED PER DCOOH AND DCWA COMMENTS
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BELLEFIELD AT HISTORIC HYDE PARK

**AMENDED GRADING, DRAINAGE AND PHASING PLAN**

TOWN OF HYDE PARK, DUTCHESS COUNTY, NEW YORK

designed	checked
LTN	PB
3/23/21	1"=20'
project no.	81235.09
sheet no.	C190B

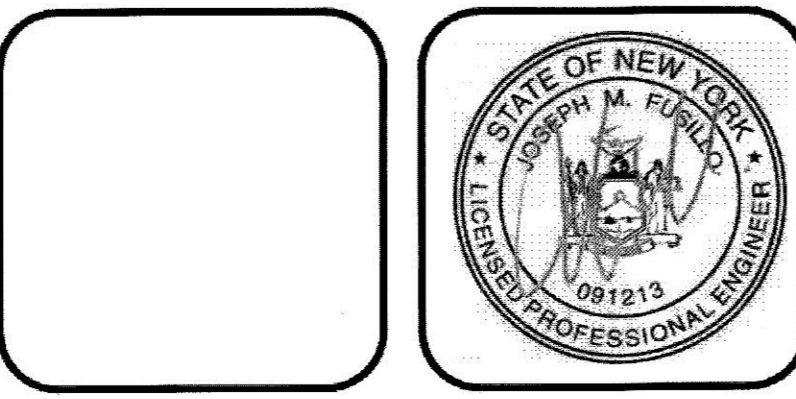


- NOTES:**
- BLANDING'S TURTLE (EMYDODEA BLANDINGII), A STATE THREATENED SPECIES, IS KNOWN TO EXIST NEAR THIS WORK LOCATION. AN AWARENESS BROCHURE DESCRIBING THIS SPECIES AND ITS HABITAT WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. IF THIS SPECIES IS ENCOUNTERED, NOTIFY THE ENGINEER-IN-CHARGE IMMEDIATELY, AND FOLLOW THE REQUIREMENTS OF THE MONITOR AND REPORT BLANDING'S TURTLES SPECIAL SPECIFICATION.
  - PRIOR TO ANY CLEARING OR GROUND DISTURBANCE ACTIVITIES, THE ENTIRE AREA OF DISTURBANCE FOR THE WASTEWATER TREATMENT PLANT AND ANY ADDITIONAL AREAS IDENTIFIED BY THE CONTRACTOR TO BE USED FOR STORAGE AND EQUIPMENT WILL BE FENCED WITH TURTLE RESTRICTIVE FENCING. THE PURPOSE OF THE TURTLE RESTRICTIVE FENCING IS TO KEEP TURTLES OUT OF THE ACTIVE WORK AREAS WHERE THEY COULD BE INJURED BY EQUIPMENT AND TO KEEP TURTLES FROM NESTING WITHIN AREAS THAT WILL BE DISTURBED WITHIN THE SAME SEASON.
  - PRIOR TO INSTALLATION OF TURTLE RESTRICTIVE FENCING, AND AFTER RESTRICTIVE FENCING IS ERECTED, THE TURTLE MONITOR MUST SEARCH AND REMOVE ALL TURTLES FROM CONSTRUCTION AREA PRIOR TO ANY OTHER WORK BEING ACCOMPLISHED.
  - NO GROUND DISTURBING ACTIVITIES (INCLUDING FENCE ERECTION) MAY BE ACCOMPLISHED BETWEEN APRIL 15 AND OCTOBER 15, UNLESS TURTLE EXCLUSIONARY FENCING HAS ALREADY BEEN ERECTED PRIOR TO APRIL 15.
  - THE FENCED IN AREA BY THE WASTEWATER TREATMENT PLANT MUST BE EQUIPPED WITH GATES WITH TURTLE RESTRICTIVE FENCING AND WILL BE CLOSED WHEN NOT IN USE.
  - DURING FUTURE SITE PLAN AMENDMENTS THE PLANNING BOARD WILL REEVALUATE:
    - LANDSCAPING AROUND THE PROPOSED WWTP.
    - POSSIBLE ADDITION OF SIDEWALKS ALONG BOTH SIDES OF PROPOSED NORTHERN INGRESS/EGRESS.
    - LIGHTING AT NORTHERN INGRESS/EGRESS.
- BLANDING'S TURTLES ENCOUNTER PLAN:**
- IN THE EVENT THAT BLANDING'S TURTLES ARE ENCOUNTERED ON SITE, PLEASE ADHERE TO THE FOLLOWING PROTOCOL:
- STOP WORK IMMEDIATELY.
  - CONTACT THE CONTRACTOR ON-SITE CONSTRUCTION FOREMAN AND TURTLE MONITOR WITHIN 2 HOURS.
  - DELAY WORK IN AREA UNTIL BLANDING'S TURTLE MONITOR IS ABLE TO REMOVE THE TURTLE TO A SAFE LOCATION OUTSIDE OF THE WORK AREA. THE BLANDING'S TURTLE FENCE WILL THEN BE COMPLETELY INSPECTED BY THE TURTLE MONITOR AND REPAIRS TO THE FENCE THAT ARE NEEDED TO SECURE THE AREA PRIOR TO RESUMING WORK.
  - CHAZEN PERSONNEL WILL CONTACT THE NYSDEC WILDLIFE OFFICE TO REPORT THE INCIDENT WITHIN 24-HOURS (845) 256-3098. CHAZEN WILL PROVIDE THE LOCATION, THE PROJECT NAME AND EXPLANATION OF INCIDENT AND INFORMATION ON THE TURTLE.
  - IT IS ILLEGAL TO TAKE, IMPORT, TRANSPORT, POSSESS, OR SELL AN ANIMAL LISTED AS THREATENED WITHOUT A LICENSE.

- CONSTRUCTION SEQUENCING NOTES:**
- PRIOR TO COMMENCING ANY CLEARING, GRUBBING, EARTHWORK ACTIVITIES, ETC. AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (I.E. SILT FENCES, TREE PROTECTION/BARRIER FENCES, STABILIZED CONSTRUCTION ENTRANCES, STORM DRAIN SEDIMENT FILTERS, DRAINAGE DITCH SEDIMENT FILTERS, ETC.) INDICATED ON THE PROJECT DRAWINGS. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
  - PRIOR TO COMMENCING CLEARING, GRUBBING AND/OR EARTHWORK ACTIVITIES IN ANY OTHER AREA OF THE SITE, THE CONTRACTOR SHALL INSTALL INLET AND OUTLET PROTECTION MEASURES (RIPRAP OVERFLOW WEIR(S), CULVERT INLET/OUTLET PROTECTION, ETC.) AND SHALL STABILIZE THE AREAS DISTURBED DURING THE CONSTRUCTION OF THE SEDIMENT BASIN.
  - THE CONTRACTOR SHALL INSTALL TEMPORARY DIVERSION MEASURES WITH ASSOCIATED STABILIZATION MEASURES (I.E., VEGETATIVE COVER, DRAINAGE DITCH SEDIMENT FILTERS, STORM DRAIN SEDIMENT FILTERS, ETC.) TO ASSURE THAT STORMWATER RUNOFF IS CONVEYED TO THE TEMPORARY SEDIMENT BASIN.
  - TEMPORARY DIVERSION MEASURES SHALL BE LOCATED IN A MANNER THAT WILL ASSURE THAT THE AREA TRIBUTARY TO EACH DIVERSION DOES NOT EXCEED FIVE (5) ACRES. THESE TEMPORARY DIVERSION MEASURES SHALL BE INSPECTED DAILY AND REPAIRED/STABILIZED AS NECESSARY TO MINIMIZE EROSION.
  - THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRADING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED.
  - INSTALL PROTECTIVE MEASURES AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
  - CONSTRUCT ALL UTILITIES, CURB AND GUTTER, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. PLACE REQUIRED RIP-RAP AT LOCATIONS SHOWN ON THE PLANS.
  - FINALIZE PAVEMENT SUB-GRADE PREPARATION.
  - REMOVE PROTECTIVE MEASURES AROUND INLETS AND MANHOLES NO MORE THAN 24 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
  - INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
  - THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

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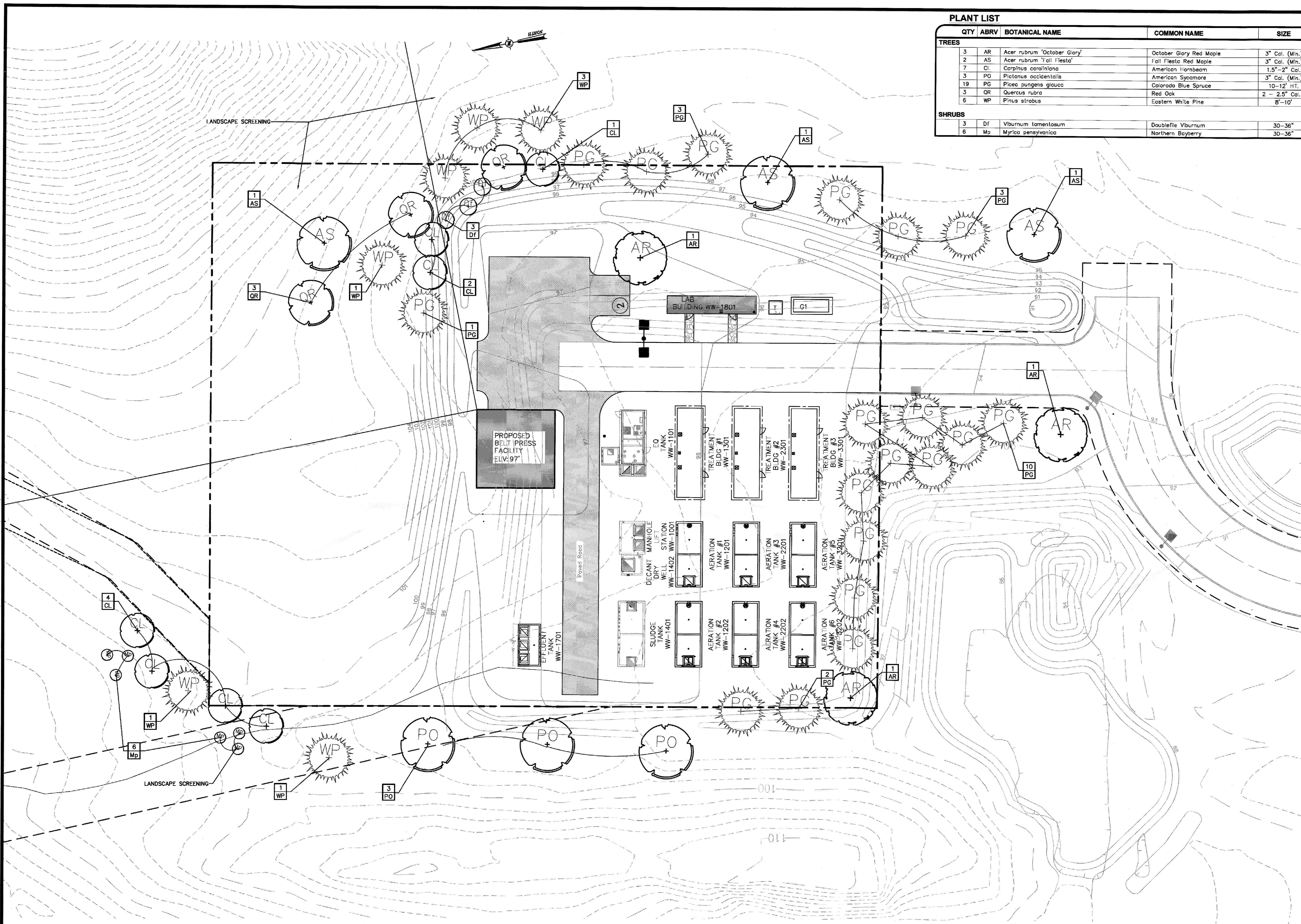
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BELLEFIELD AT HISTORIC HYDE PARK

**AMENDED EROSION & SEDIMENT CONTROL PLAN**

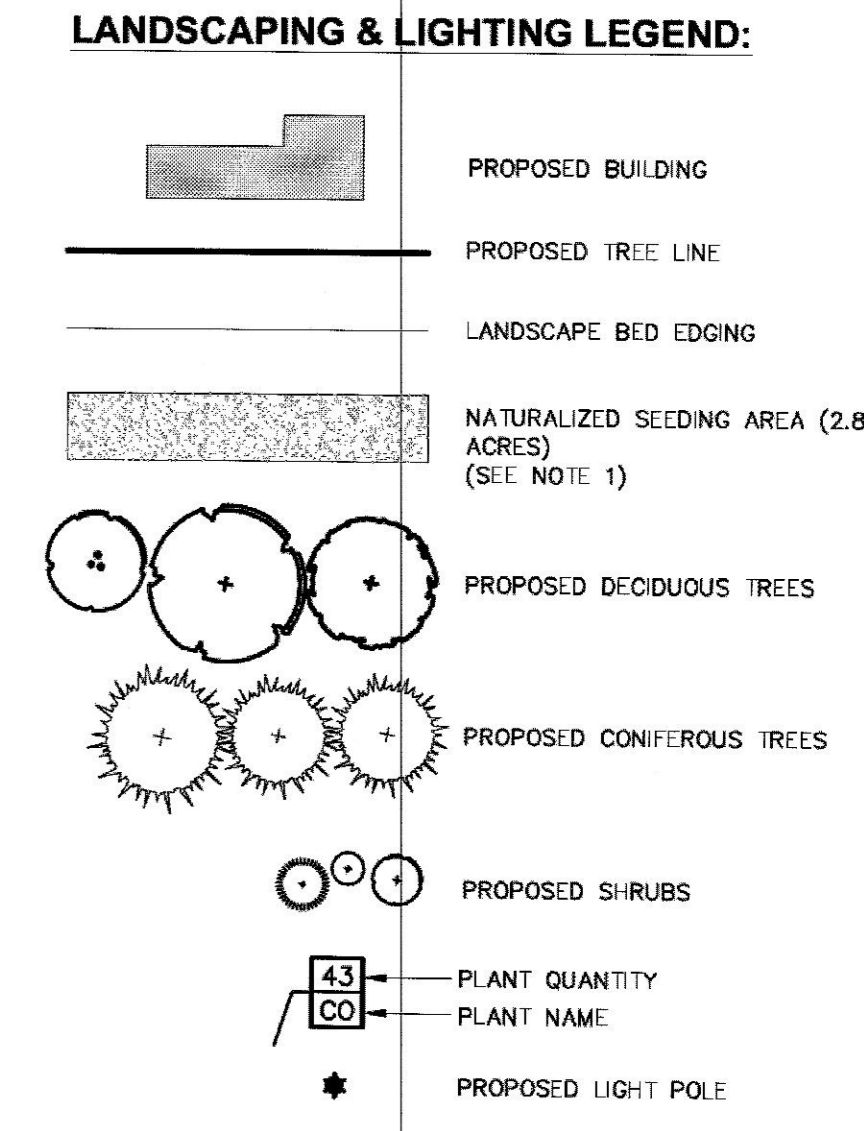
TOWN OF HYDE PARK, DUTCHESS COUNTY, NEW YORK

designed	checked
LTN	PB
3/23/21	1"
scale 1"=20'	
project no. 81235.09	
sheet no. C190C	



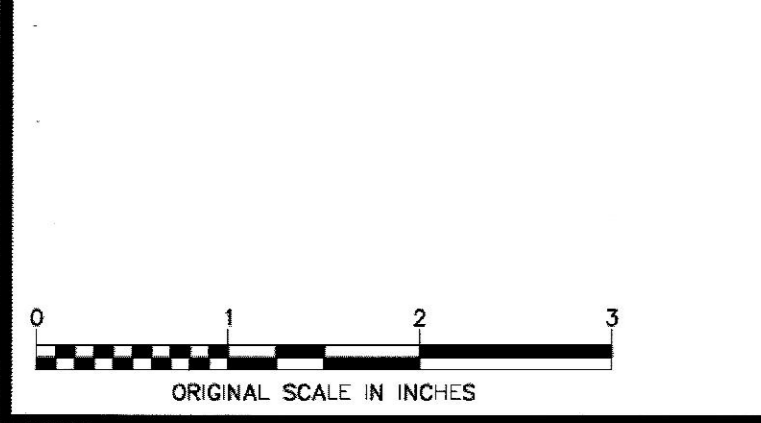
**PLANT LIST**

QTY	ABRV	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	REMARKS
<b>TREES</b>							
3	AR	Acer rubrum 'October Glory'	October Glory Red Maple	3" Cal. (Min.)	B&B	As Shown	*Street Tree, See Note 4.
2	AS	Acer rubrum 'Fall Fiesta'	Fall Fiesta Red Maple	3" Cal. (Min.)	B&B	As Shown	*Street Tree, See Note 4.
7	CL	Corpinus caroliniana	American Hornbeam	1.5"-2" Cal.	B&B	As Shown	
3	PO	Picea canadensis	American Sycamore	3" Cal. (Min.)	B&B	As Shown	
19	PG	Picea pungens glauca	Colorado Blue Spruce	10-12' HT.	B&B	As Shown	
3	OR	Quercus rubra	Red Oak	2 - 2.5" Cal.	B&B	As Shown	
6	WP	Pinus strobus	Eastern White Pine	8"-10"	B&B	As Shown	
<b>SHRUBS</b>							
3	Df	Viburnum tomentosum	Doublefile Viburnum	30-36"	Cont.	As Shown	
6	Ma	Myrica pensylvanica	Northern Bayberry	30-36"	Cont.	As Shown	



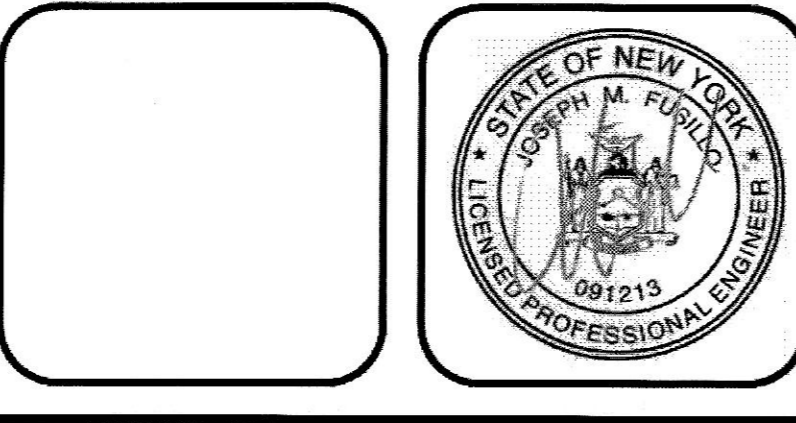
- NOTES:**
- SLOPES TO BE PLANTED WITH ERMX-181 (NATIVE STEEP SLOPE MIX WITH ANNUAL RYEGRASS - 12 LBS PER ACRE OR 1/4 POUND PER 1,000 SQ. FT.). FOLLOW MANUFACTURER RECOMMENDATIONS FOR FIRST AND SECOND SEASON MAINTENANCE.
  - ALL OTHER DISTURBED AREAS NOT SPECIFICALLY CALLED OUT FOR NEW IMPROVEMENTS SHALL BE TOPSOILED, SEEDED WITH LAWN SEED MIX, & MULCHED WITH STRAW (1" TP).
  - SEE ALSO SHEETS C170-A & C191 FOR ADDITIONAL LANDSCAPE PLANS.
  - STREET TREES, DENOTED WITH AN ASTERISK (\*) IN PLANT LIST, SHALL BE LIMBED-UP TO 6 FT.
  - ALL PLANTINGS SHALL BE MAINTAINED IN A VIGOROUS GROWING CONDITION. ANY PLANT NOT SO MAINTAINED SHALL BE REPLACED WITH A NEW PLANT NO LATER THAN THE BEGINNING OF THE NEXT GROWING SEASON.

- SOIL RESTORATION NOTES:**
- IN AREAS WHERE SOIL DISTURBANCE HAS OCCURRED OUTSIDE OF BUILDINGS AND PAVEMENT AREAS, THE DISTURBED SUB-SOILS SHALL BE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOILS RESTORATION STEPS APPLIED:
- APPLY THREE INCHES OF COMPOST OVER SOIL. COMPOST SHALL BE AGED, FROM PLANT DERIVED MATERIALS, FREE OF VISIBLE WEED SEEDS, HAVE NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING, PASS THROUGH A HALF INCH SCREEN AND HAVE A PH SUITABLE TO GROW DESIRED PLANTS.
  - TILL COMPOST INTO THE SUBSOIL TO A DEPTH OF AT LEAST 12-INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, MIXING AND CIRCULATING AIR AND COMPOST INTO SUB-SOILS.
  - ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
  - APPLY TOPSOIL TO A DEPTH OF SIX INCHES.



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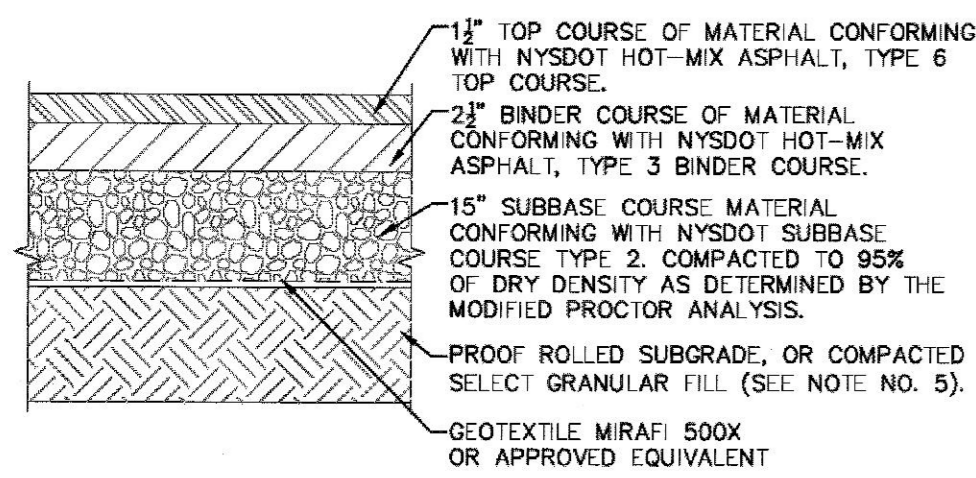
rev.	date	description
2	7/2/21	REVISD PER DECISION AND DOWN COMMENTS
1	4/19/21	REVISD PER PLANNING BOARD COMMENTS

BELFIELD AT HISTORIC HYDE PARK

**AMENDED WWTP LANDSCAPE PLAN**

TOWN OF HYDE PARK, DUTCHESS COUNTY, NEW YORK

designed	checked
TL	PB
date	scale
3/23/21	1"=20'
project no.	81235.09
sheet no.	<b>C190D</b>

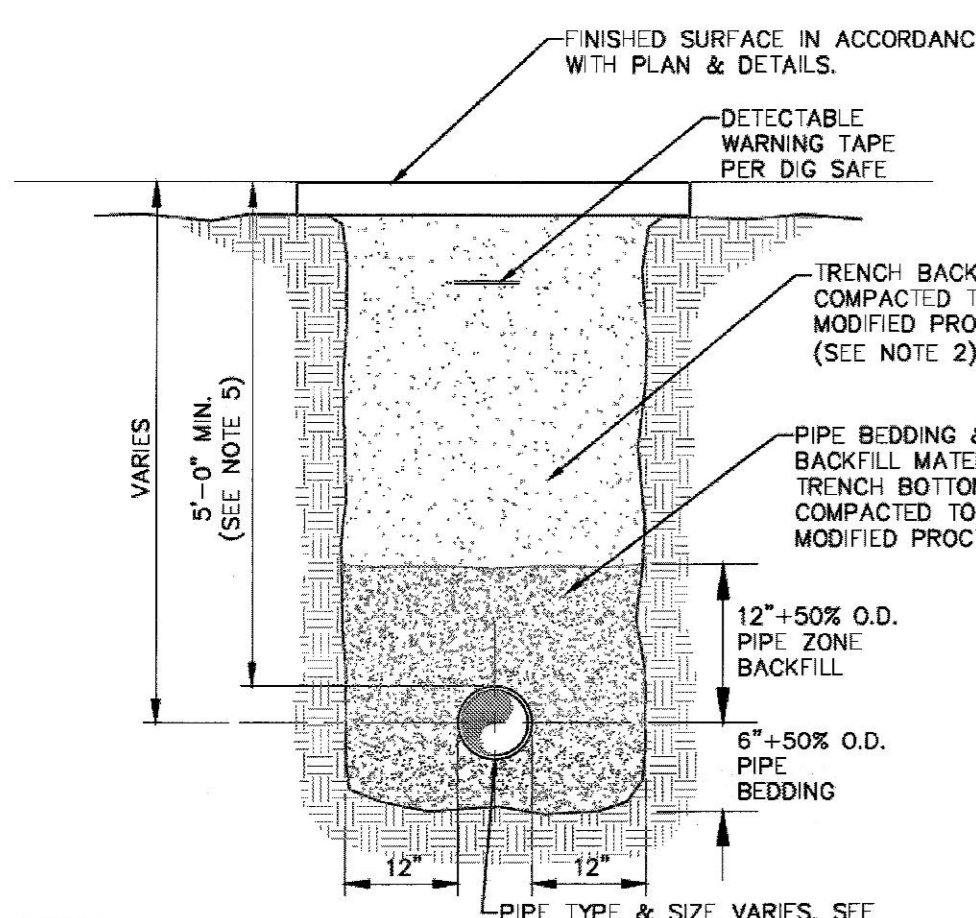


**ON-SITE ROADWAY SECTION DETAIL**  
SCALE: NOT TO SCALE

**NOTES:**

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYS DOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, AND ALL ADDENDA THERE TO.
2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYS DOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400 - HOT MIX ASPHALT OF THE ABOVE REFERENCED NYS DOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 403 - HOT MIX ASPHALT (HMA) PAVEMENTS FOR MUNICIPALITIES.
4. TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407 - TACK COAT OF THE ABOVE REFERENCED NYS DOT STANDARD SPECIFICATIONS.
5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203 - EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYS DOT STANDARD SPECIFICATIONS.
6. PAVEMENT SECTION DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY THE CHAZEN COMPANIES DATED 05/04/18.

**1 PAVEMENT SECTION DETAIL**  
SCALE: NOT TO SCALE



- NOTES:
1. PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SEIVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%

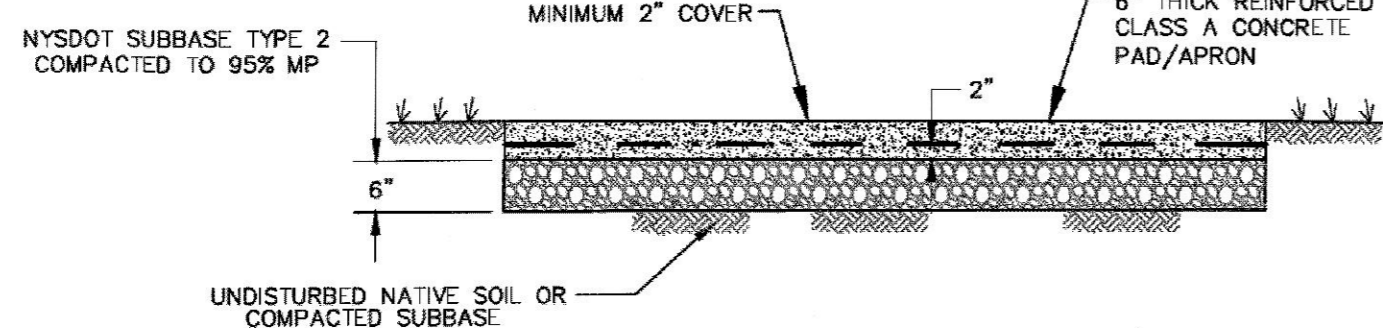
2. TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SEIVE DESIGNATION	% PASSING
4"	100%
NO. 40	0-70%
NO. 200	0-10%

- IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.

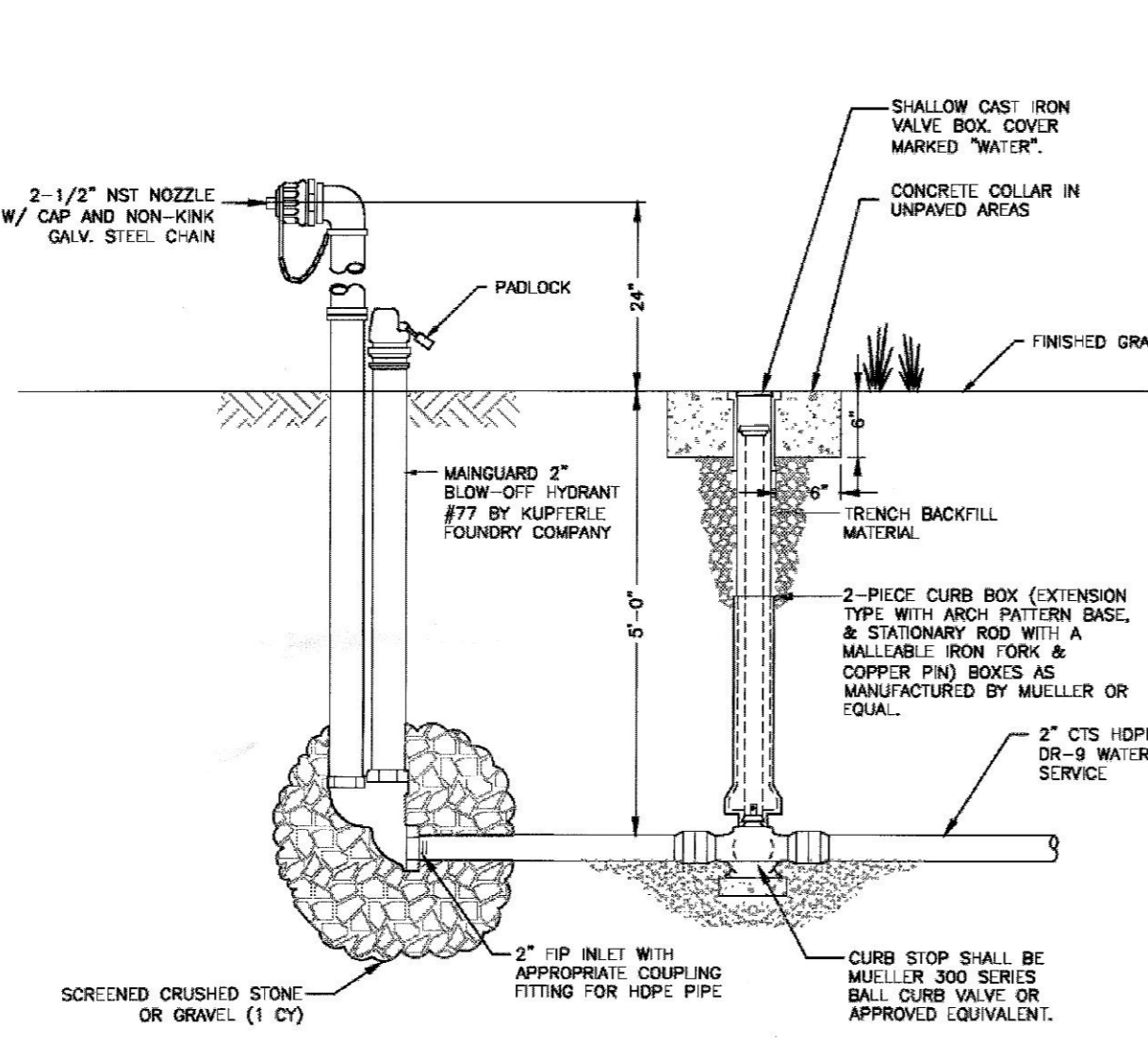
3. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.
4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
5. 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER FORCE MAINS ONLY.

**2 PIPE TRENCH DETAIL (TYPICAL)**  
SCALE: NOT TO SCALE



**13 SLAB-ON-GRADE CONCRETE PAD DETAIL**  
SCALE: NOT TO SCALE

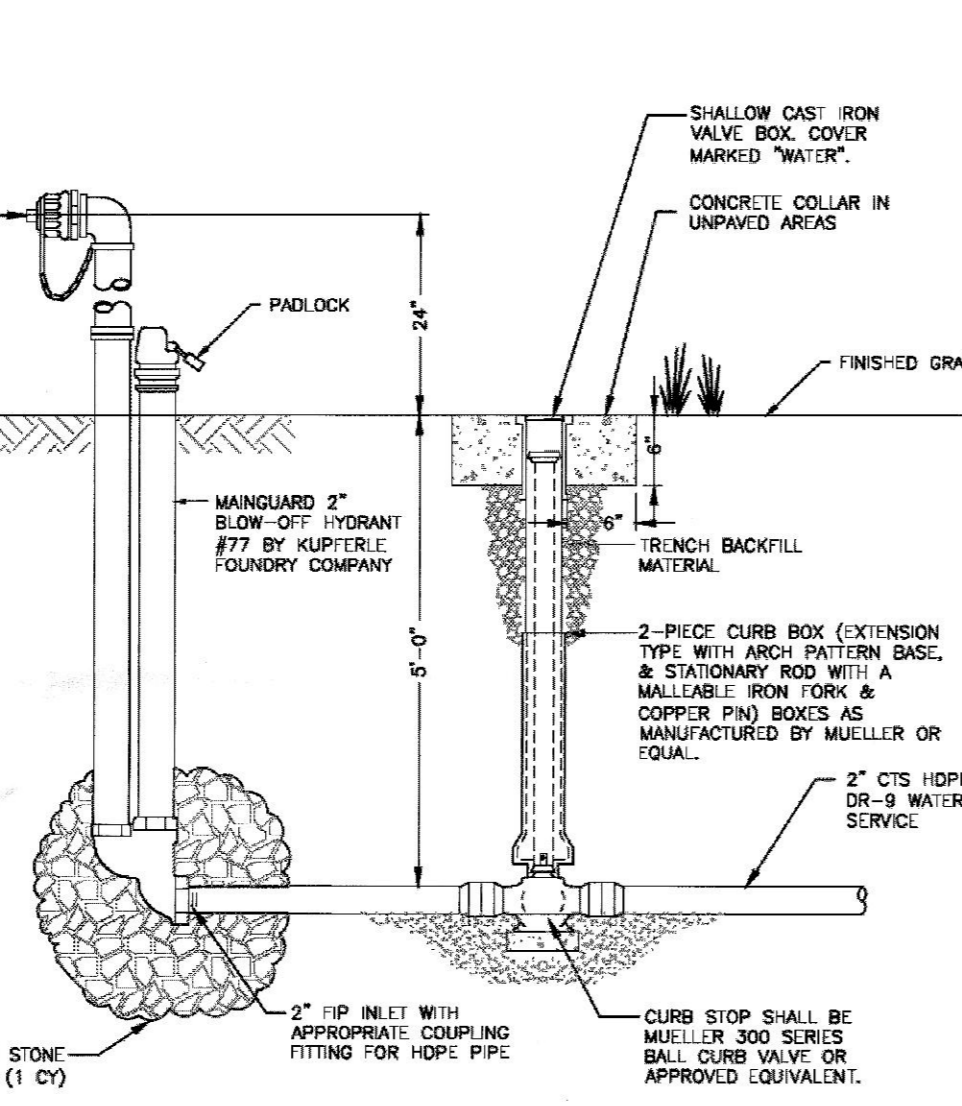
**4 PIPE CONNECTION TO DRAINAGE STRUCTURE - CMP OR HDPE CEMENT GROUT SEAL JOINT**  
SCALE: NOT TO SCALE



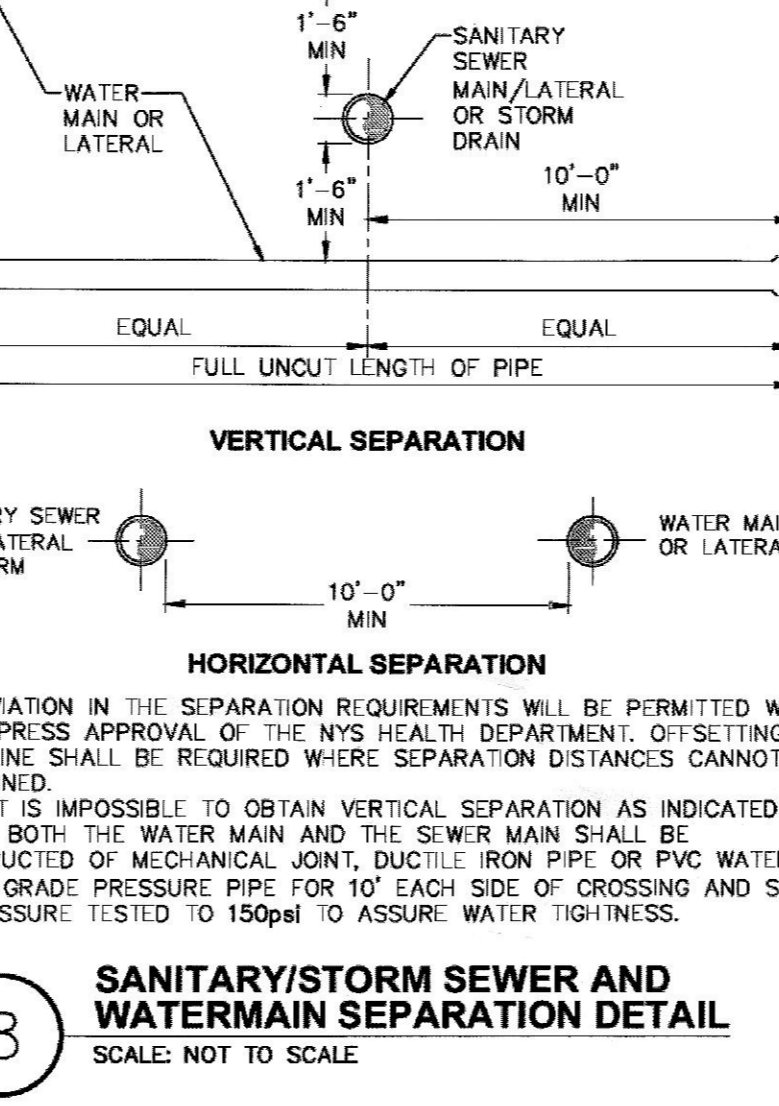
**5 TYPICAL BLOW-OFF HYDRANT**  
SCALE: NOT TO SCALE

- NOTES:
1. POST-HYDRANT SHALL BE MANGUARD NO.77 BLOW-OFF HYDRANT AS MANUFACTURED BY KUPFERLE FOUNDRY CO., ST. LOUIS, MO.
  2. HYDRANT SHALL BE SELF-DRAINING, NON-FREEZING TYPE WITH A 5'-0" BURY DEPTH. HYDRANT SHALL HAVE A 2" FIP HORIZONTAL INLET AND NON-TURNING OPERATING ROD. OUTLET SHALL BE 2-1/2" NST. HYDRANT SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE.
  3. ALL WORKING PARTS SHALL BE BRONZE TO BRONZE, AND SERVICEABLE FROM ABOVE GROUND.
  4. HYDRANT SHALL BE SET IN 1 CUBIC YARD OF SCREENED CRUSHED STONE OR GRAVEL TO ALLOW FOR PROPER DRAINAGE OF THE HYDRANT. RECOMMENDATIONS OF THE AWWA SHOULD BE FOLLOWED WHEN INSTALLING THE HYDRANT.

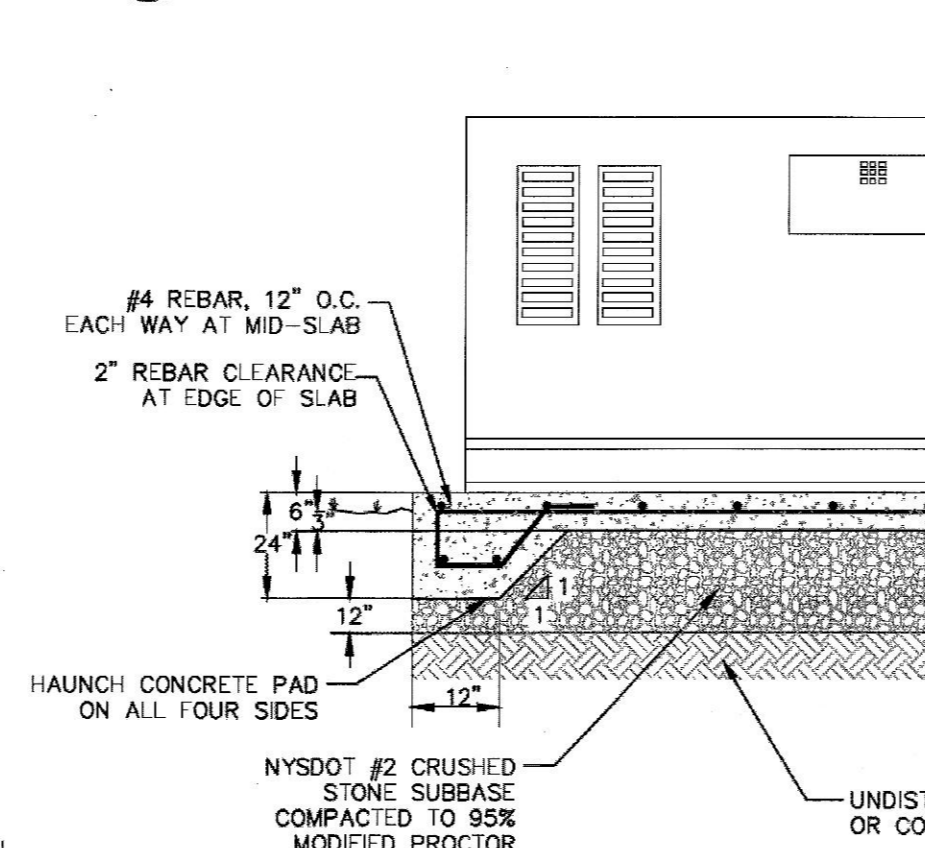
**3 PAVEMENT TRANSITION DETAIL**  
SCALE: NOT TO SCALE



**6 TYPICAL CURB VALVE AND BOX**  
SCALE: NOT TO SCALE

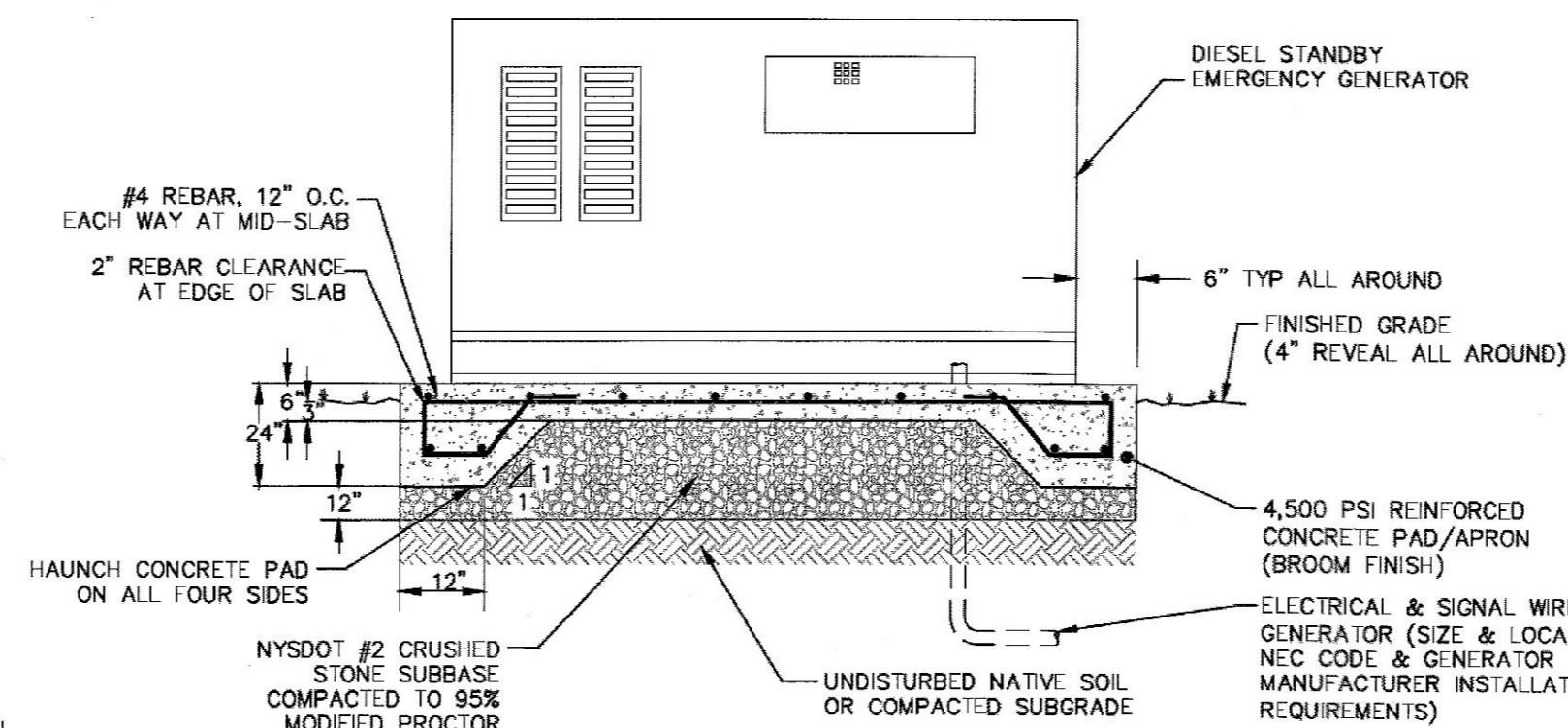


**8 SANITARY/STORM SEWER AND WATERMAIN SEPARATION DETAIL**  
SCALE: NOT TO SCALE



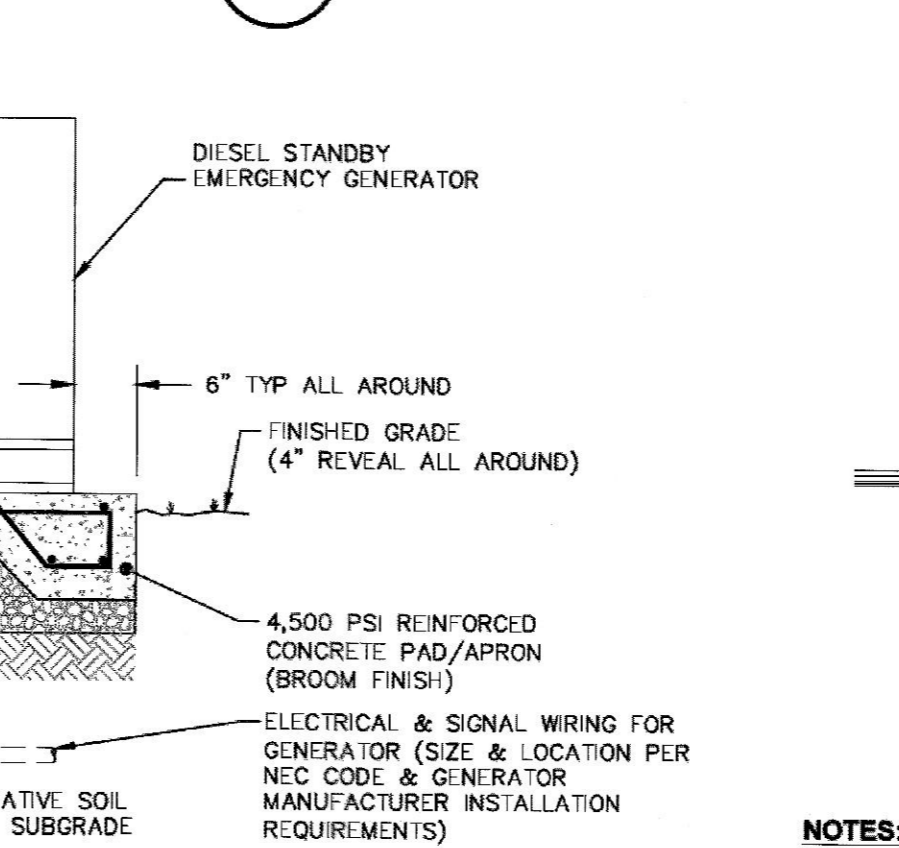
- NOTES:
1. NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE NYS HEALTH DEPARTMENT. OFFSETTING OF WATERLINE SHALL BE REQUIRED WHERE SEPARATION DISTANCES CANNOT BE MAINTAINED.
  2. WHEN IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS INDICATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT, DUCTILE IRON PIPE OR PVC WATER WORKS GRADE PRESSURE PIPE FOR 10' EACH SIDE OF CROSSING AND SHALL BE PRESSURE TESTED TO 150psi TO ASSURE WATER TIGHTNESS.

**10 GENERATOR PAD DETAIL**  
SCALE: NOT TO SCALE

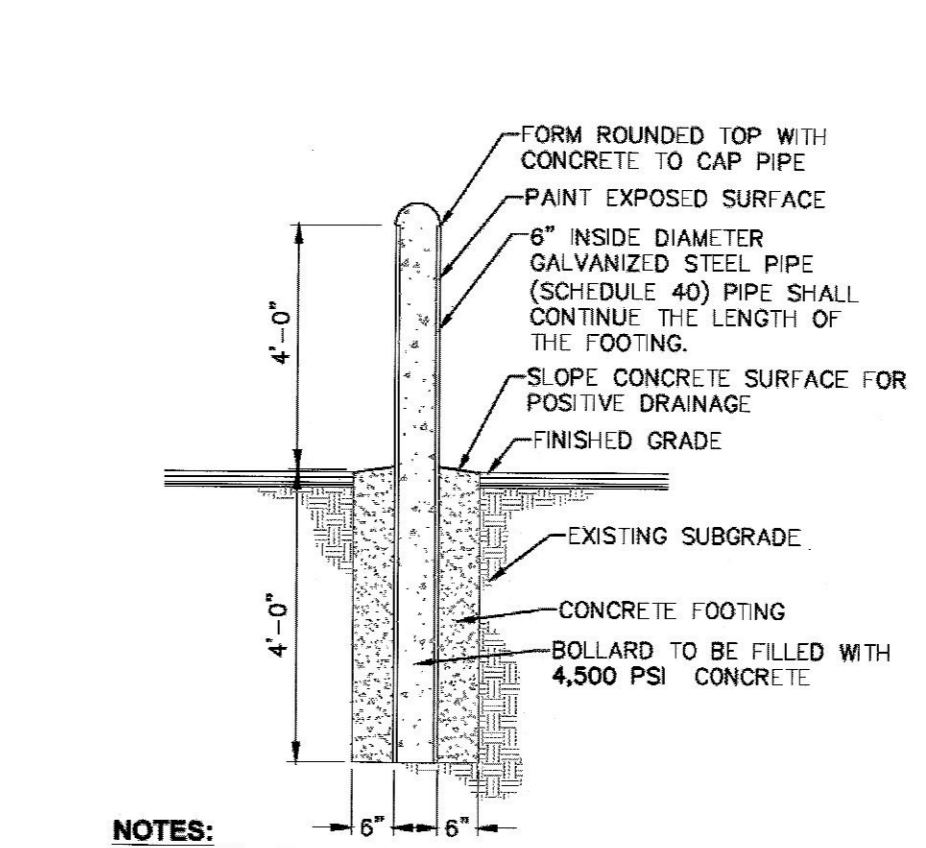


- NOTES:
1. THE GENERATOR SHALL BE HOUSED IN A SOUND ATTENUATED ACOUSTICALLY DESIGNED WEATHER PROTECTIVE ENCLOSURE. THE UNIT SHALL BE PROVIDED WITH THE FOLLOWING: RUN-OFF-AUTO SWITCH, RUNNING TIME METER, CRITICAL GRADE EXHAUST SILENCER, AUTOMATIC TRANSFER SWITCH, AUTOMATIC BATTERY CHARGER, GENERATOR ALARM STATUS PANEL, OIL PRESSURE GAUGE, HIGH TEMPERATURE AND LOW OIL PRESSURE SHUTDOWN.
  2. MINIMUM CONCRETE PAD DIMENSIONS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.

**9 WATERLINE OFFSET DETAIL**  
SCALE: NOT TO SCALE

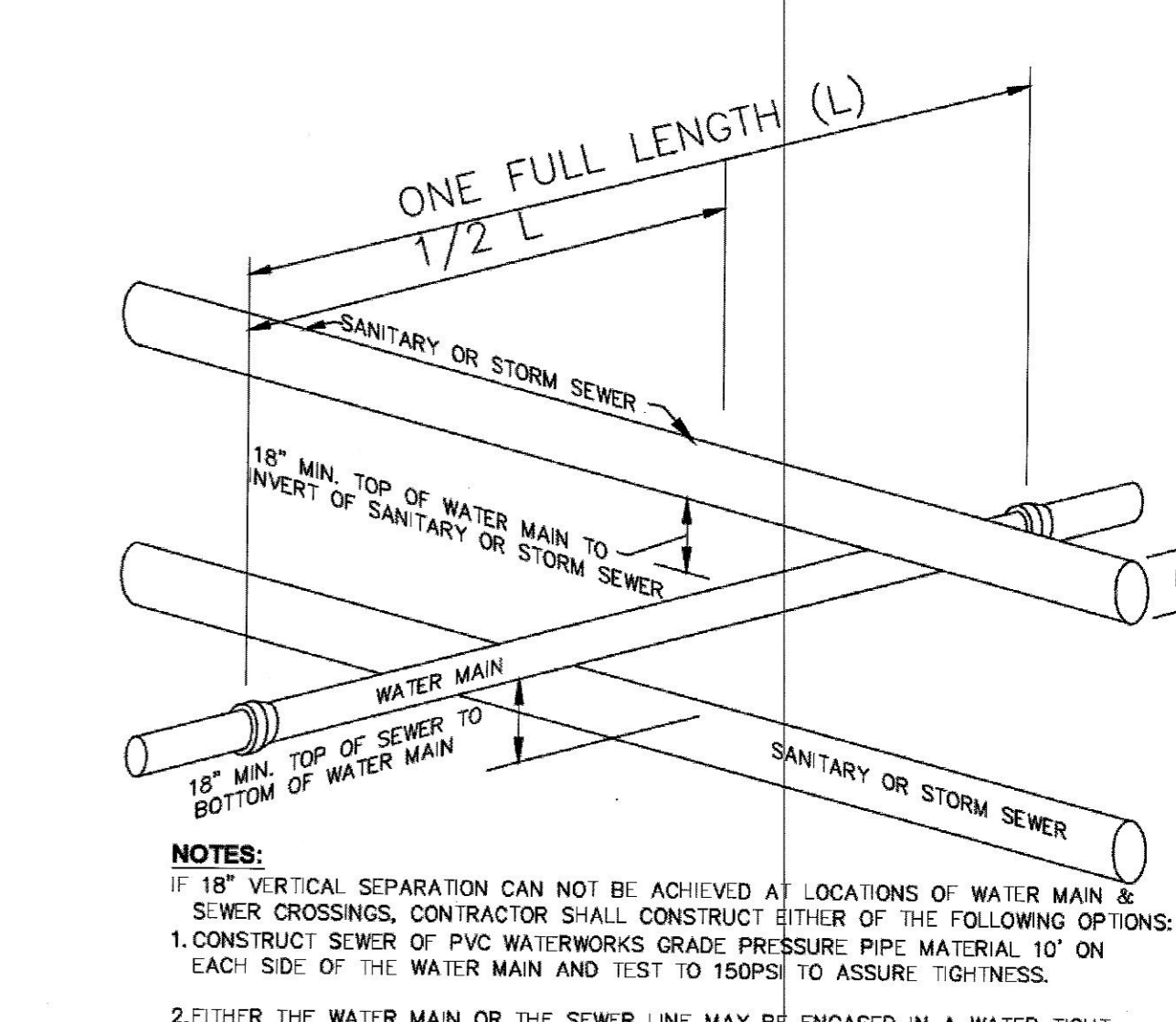


**11 STEEL & CONCRETE BOLLARD DETAIL**  
SCALE: NOT TO SCALE



- NOTES:
1. BOLLARD FINISH: PREPARE GALVANIZED COATING TO RECEIVE PAINTED FINISH. APPLY (1) COAT OF RUST INHIBITOR PRIMER. APPLY (2) COATS OF GLOSS ENAMEL (COLOR TO BE SELECTED BY THE OWNER).
  2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI @ 28 DAYS.
  3. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" (WITH A TOLERANCE OF 1").
  4. ALL CONCRETE SHALL HAVE A 5% ENTRAINED AIR (WITH A TOLERANCE OF 1%) CONFORMING WITH ASTM C260.

**12 SECTION WATER/SEWER SEPARATION REQUIREMENTS**  
SCALE: NOT TO SCALE



- NOTES:
1. IF 18" VERTICAL SEPARATION CAN NOT BE ACHIEVED AT LOCATIONS OF WATER MAIN & SEWER CROSSINGS, CONTRACTOR SHALL CONSTRUCT EITHER OF THE FOLLOWING OPTIONS:
    1. CONSTRUCT SEWER OF PVC WATERWORKS GRADE PRESSURE PIPE MATERIAL 10' ON EACH SIDE OF THE WATER MAIN AND TEST TO 150psi TO ASSURE TIGHTNESS.
    2. EITHER THE WATER MAIN OR THE SEWER LINE MAY BE ENCASED IN A WATER TIGHT CARRIER PIPE WHICH EXTENDS TO FEET ON BOTH SIDES OF THE CROSSING. THE CARRIER PIPE SHALL BE OF MATERIAL APPROVED FOR THE USE IN WATER MAIN CONSTRUCTION.

**RPZ SCHEDULE**

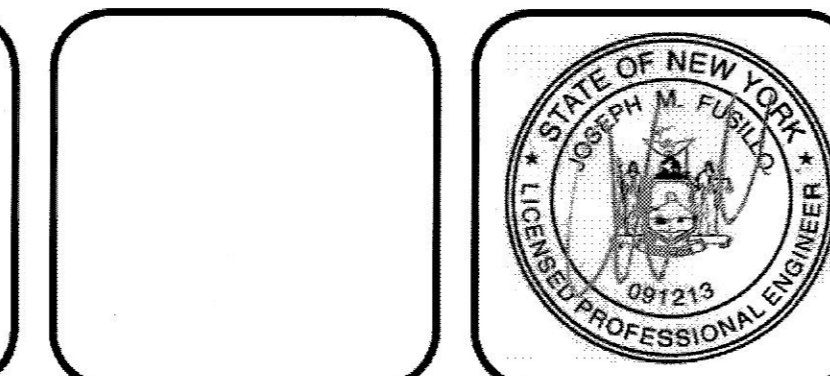
LOCATION	QUANTITY	MAKE & MODEL
HOT BOX ENCLOSURE	1	WATTS 1" LF00M3-QT
SCREENINGS BUILDING	1	WATTS 1" LF00M3-QT
TREATMENT BUILDINGS	3	WATTS 1" LF00M3-QT
LABORATORY BUILDING	1	WATTS 1" LF00M3-QT

**7 BACKFLOW PREVENTION DEVICE (TYP)**  
SCALE: NOT TO SCALE

- NOTES:
1. ALL DOUBLE CHECK VALVE (DCV) AND REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AS PER THE JANUARY 1992 NYS DOT "GUIDELINES FOR DESIGNING BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS".
  2. PROVIDE THE FOLLOWING CLEARANCES FOR MAINTENANCE OF THE BACKFLOW PREVENTION DEVICE:
    - 12" MIN CLEAR SPACE ABOVE THE ASSEMBLY
    - 30" MIN OF CLEAR SPACE BETWEEN THE FRONT SIDE OF THE DEVICE AND THE NEAREST WALL OR OBSTRUCTION
    - 8" MIN OF CLEAR SPACE FROM THE BACK SIDE OF THE DEVICE TO THE NEAREST WALL OR OBSTRUCTION
    - 18" MIN CLEARANCE BETWEEN THE BOTTOM OF THE RELIEF VALVE AND THE FLOOR (RPZ ONLY) - AN AIR GAP OF AT LEAST TWICE THE DIAMETER OF THE DRAIN LINE SHALL BE PROVIDED ABOVE THE FLOOR DRAIN. THE AIR GAP SHALL IN NO CASE BE LESS THAN 1 INCH (RPZ ONLY)
  3. FOLLOWING COMPLETION OF THE INSTALLATION, THE OWNER SHALL BE RESPONSIBLE FOR TESTING THE BACKFLOW PREVENTION DEVICE SHALL BE TESTED BY A NYS DOT FORM 1013 AND PROVIDED TO OWNER AND DCOOH.
  4. THE OWNER SHALL BE RESPONSIBLE FOR TESTING ALL BACKFLOW PREVENTION DEVICES AT LEAST ANNUALLY. THE TEST SHALL BE COMPLETED BY A NYS CERTIFIED TESTER WITH A COPY OF THE INSPECTION AND TEST REPORT (DOH-1013) FORWARDED TO DUTCHESS COUNTY WATER & WASTEWATER AUTHORITY AND THE DUTCHESS COUNTY DEPARTMENT OF HEALTH.
  5. ALL BACKFLOW PREVENTION DEVICES SHALL BE COMPLETELY DISASSEMBLED AND RE-ASSEMBLED EVERY FIVE (5) YEARS FOR MAINTENANCE PURPOSES.

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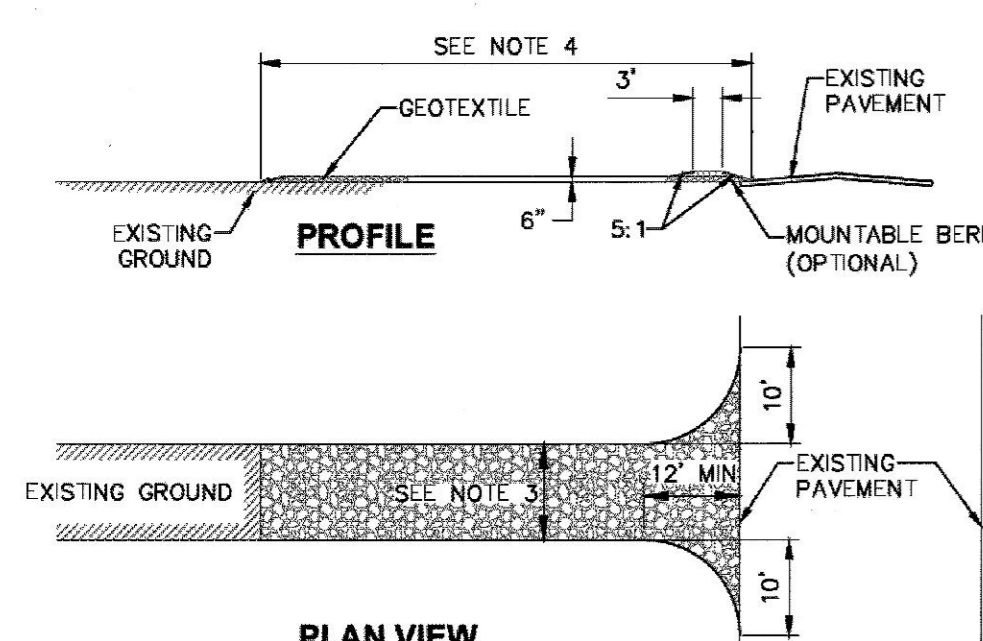
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3	7/23/21	REVISED PER DCOWA COMMENTS
2	7/2/21	REVISED PER DCOOH AND DCOWA COMMENTS
1	4/19/21	REVISED PER PLANNING BOARD COMMENTS

BELLEFIELD AT HISTORIC HYDE PARK

**AMENDED SITE AND UTILITY DETAILS**

TOWN OF HYDE PARK, DUTCHESS COUNTY, NEW YORK

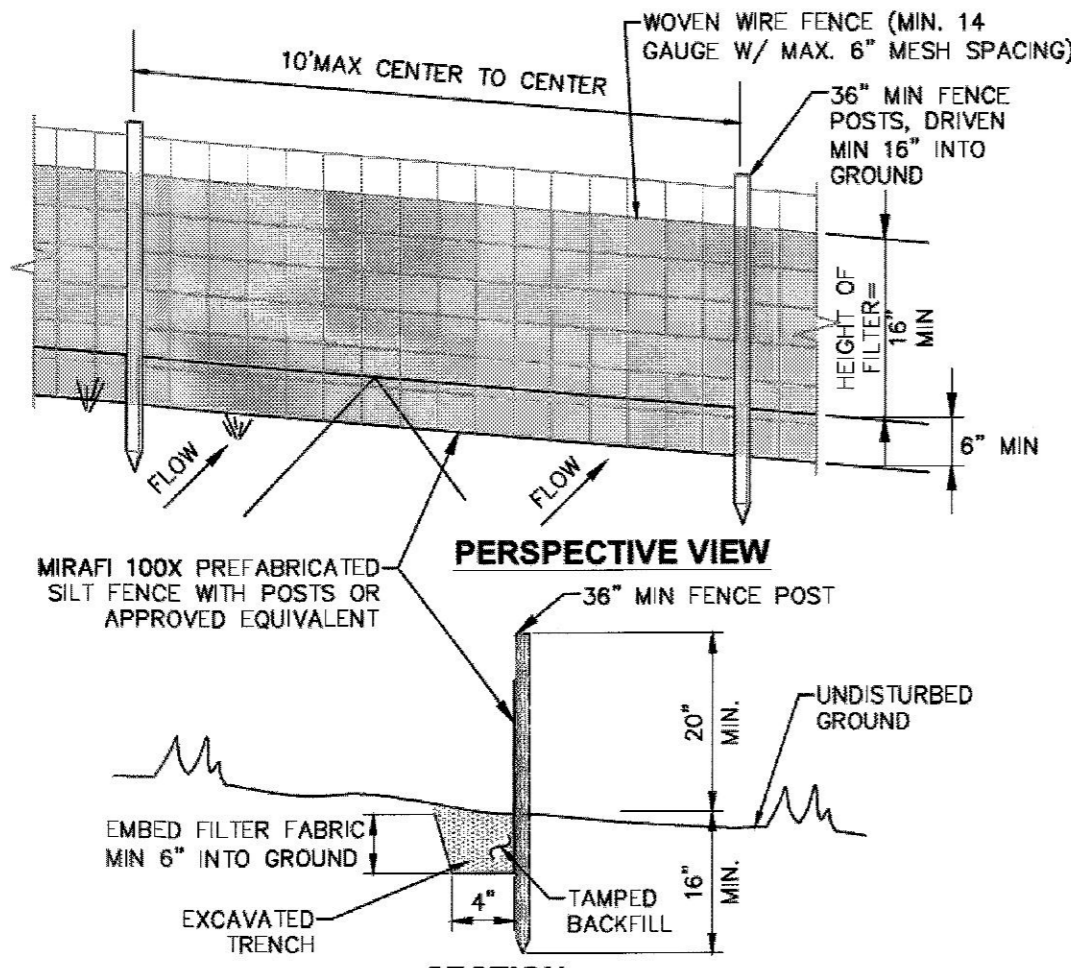
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date 5/23/21  
project no. 81235.09  
sheet no. C530



**CONSTRUCTION ENTRANCE SPECIFICATIONS:**

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- LENGTH - NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
- GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**1 STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
SCALE: NOT TO SCALE

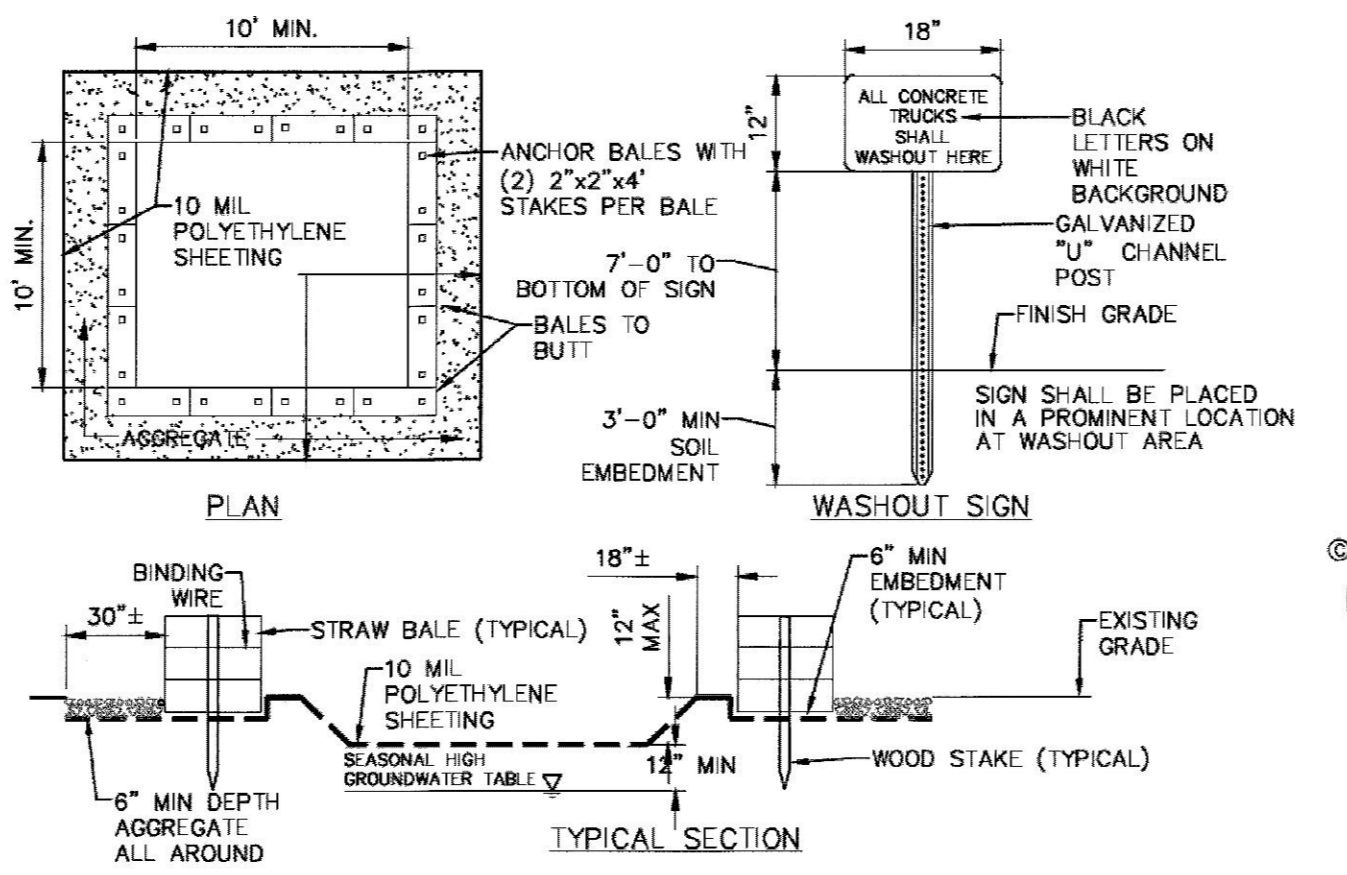


**NOTES:**

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL "I" OR "U" TYPE OR HARDWOOD.
- FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAX MESH OPENING.
- WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100 FEET OF FENCE.
- SILT FENCE SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
- SILT FENCE SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS FLOWING TO THE BARRIER.
- MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUN-OFF TO A SILT FENCE ARE:

SLOPE STEEPNESS	MAXIMUM SLOPE LENGTH (FT)
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

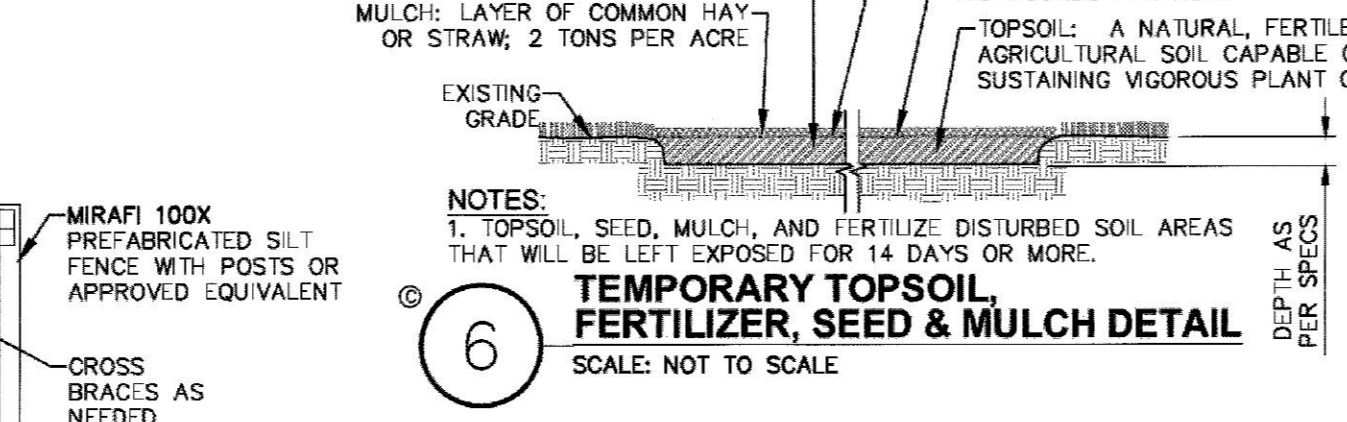
**2 SILT FENCE INSTALLATION DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
- CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
- WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL. THIS INCLUDES REPLACEMENT OF THE 10 MIL POLYETHYLENE SHEETING.
- WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
- ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
- AT LEAST WEEKLY, REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

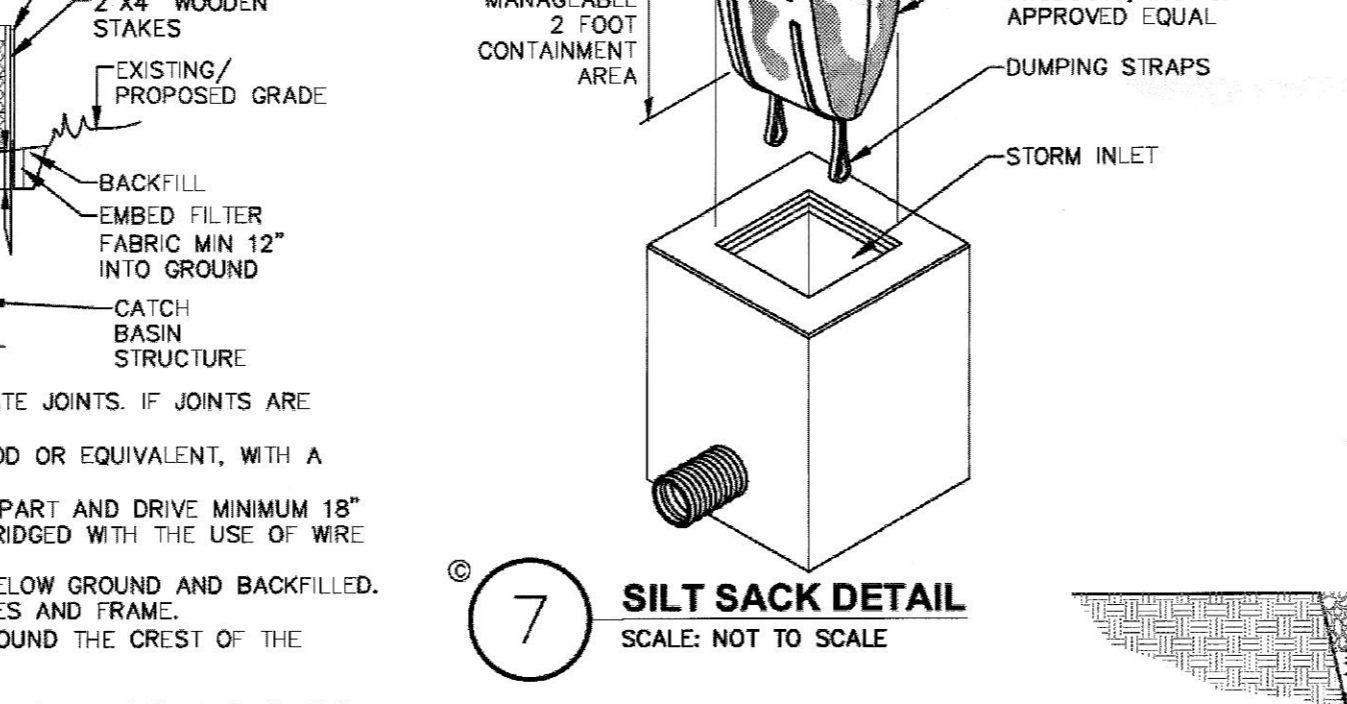
**4 CONCRETE WASHOUT AREA DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- TOPSOIL, SEED, MULCH, AND FERTILIZER DISTURBED SOIL AREAS THAT WILL BE LEFT EXPOSED FOR 14 DAYS OR MORE.
- FERTILIZER: COMMERCIAL 5-10-5, 175 POUNDS PER ACRE.
- TOPSOIL: A NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH.

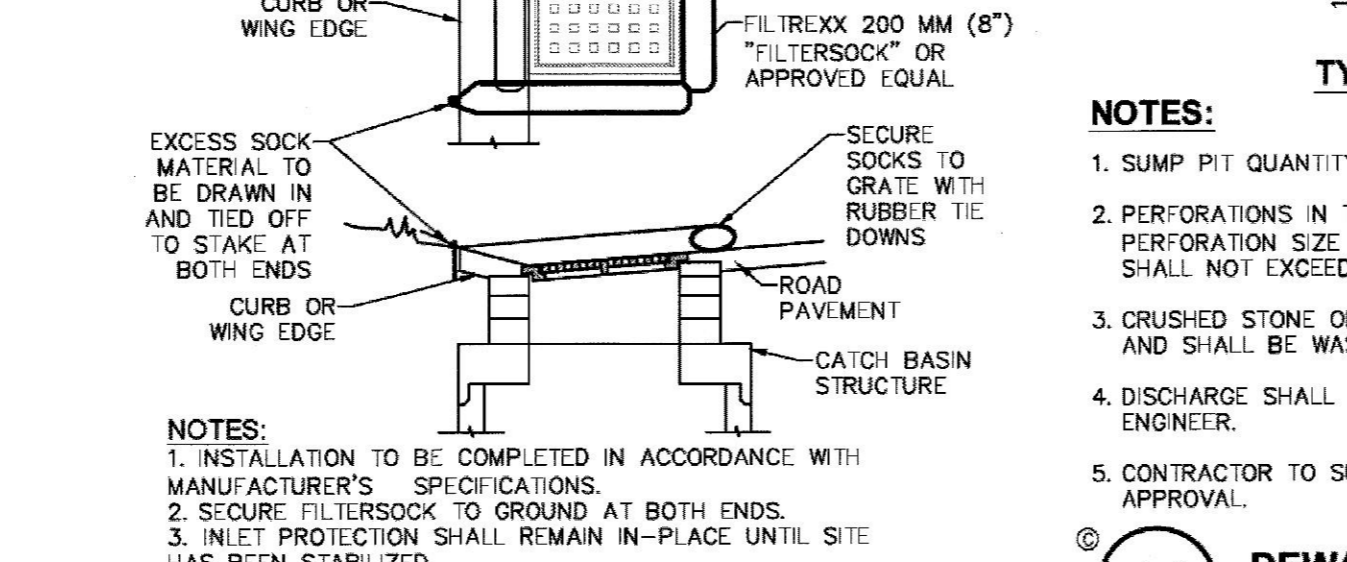
**6 TEMPORARY TOPSOIL, FERTILIZER, SEED & MULCH DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
- CUT FABRIC FROM CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED, OVERLAP TO THE NEXT STAKE.
- STAKE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE MINIMUM 18" DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND FABRIC FOR SUPPORT.
- FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.
- MAXIMUM DRAINAGE AREA IS 1 ACRE.
- INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

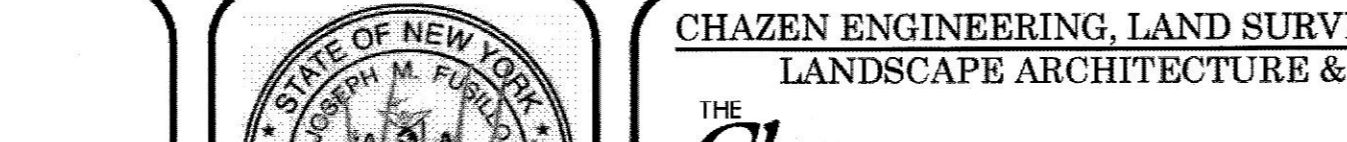
**7 SILT SACK DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- SECURE FILTERSOCK TO GROUND AT BOTH ENDS.
- INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

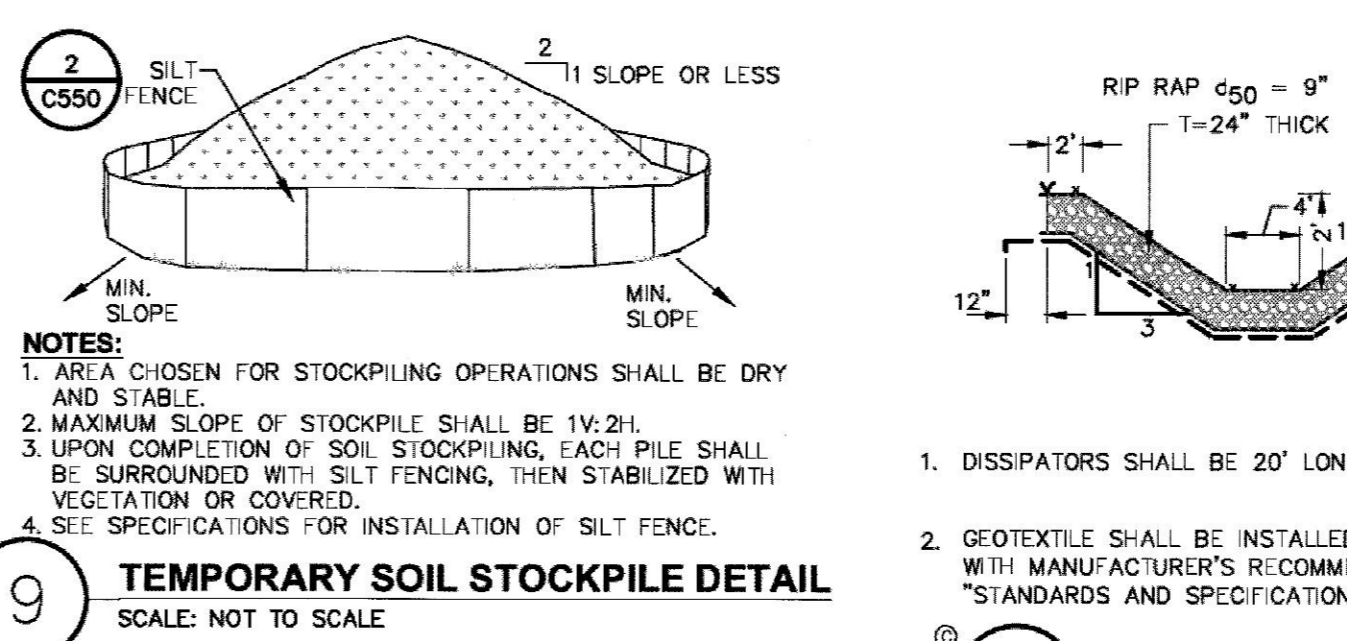
**5 TEMPORARY OUT OF PAVEMENT FILTER FABRIC DROP INLET PROTECTION DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- SECURE FILTERSOCK TO GROUND AT BOTH ENDS.
- INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

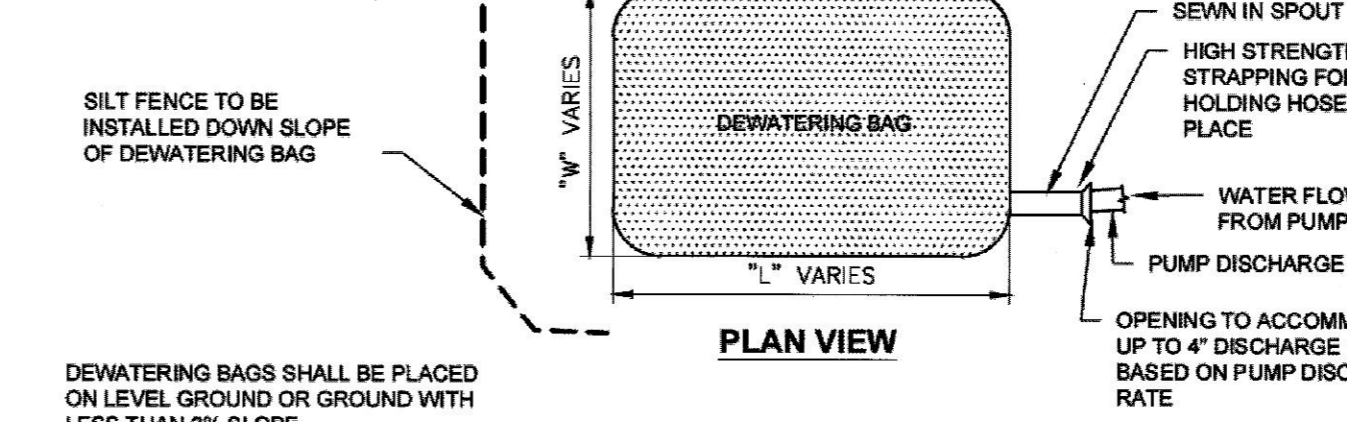
**8 CATCH BASIN GRATE INLET FILTER DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- AREAS CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
- UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
- SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

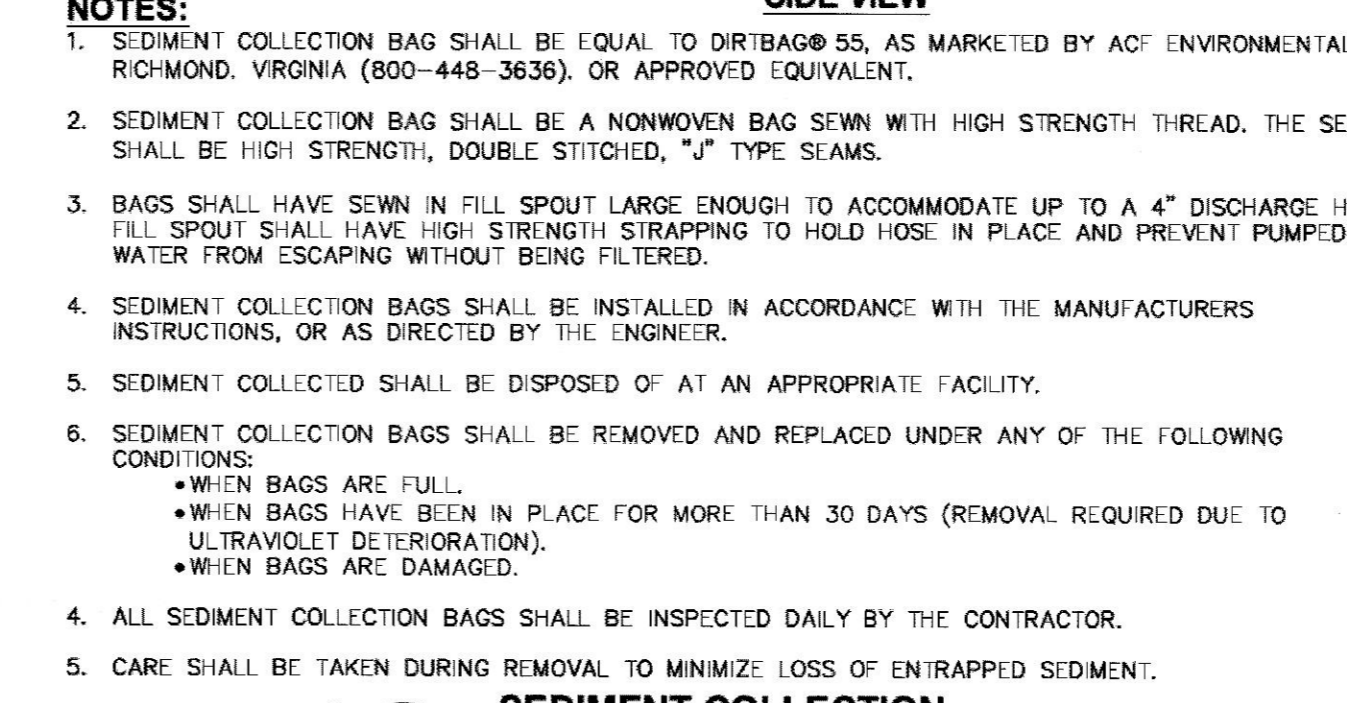
**9 TEMPORARY SOIL STOCKPILE DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- DISSIPATORS SHALL BE 20' LONG.
- GEOTEXTILE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

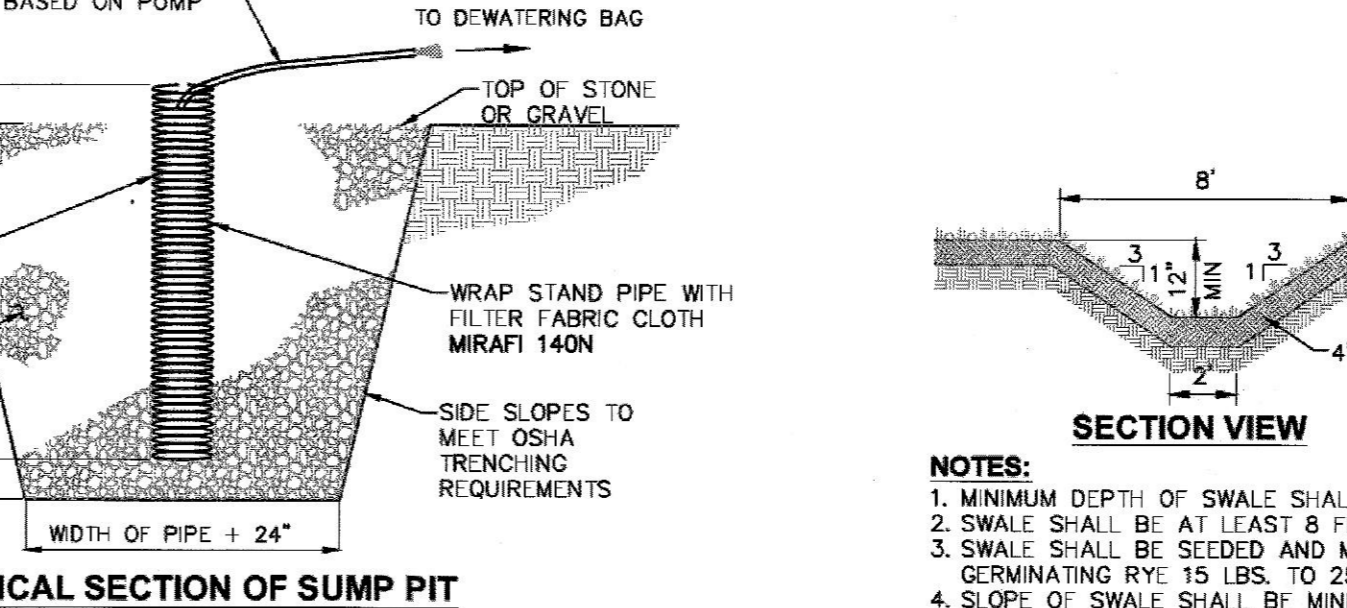
**12 RIP RAP ENERGY DISSIPATOR SECTION**  
SCALE: NOT TO SCALE



**NOTES:**

- SEDIMENT COLLECTION BAG SHALL BE EQUAL TO DIRTBAG 55, AS MARKETING BY ACF ENVIRONMENTAL, RICHMOND, VIRGINIA (800-448-3636), OR APPROVED EQUIVALENT.
- SEDIMENT COLLECTION BAG SHALL BE A NONWOVEN BAG SEWN WITH HIGH STRENGTH THREAD. THE SEAMS SHALL BE HIGH STRENGTH, DOUBLE STITCHED, "J" TYPE SEAMS.
- BAGS SHALL HAVE SEWN IN FILL SPOUT LARGE ENOUGH TO ACCOMMODATE UP TO A 4" DISCHARGE HOSE. FILL SPOUT SHALL HAVE HIGH STRENGTH STRAPPING TO HOLD HOSE IN PLACE AND PREVENT PUMPED WATER FROM ESCAPING WITHOUT BEING FILTERED.
- SEDIMENT COLLECTION BAGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, OR AS DIRECTED BY THE ENGINEER.
- SEDIMENT COLLECTED SHALL BE DISPOSED OF AT AN APPROPRIATE FACILITY.
- SEDIMENT COLLECTION BAGS SHALL BE REMOVED AND REPLACED UNDER ANY OF THE FOLLOWING CONDITIONS:
  - WHEN BAGS ARE FULL.
  - WHEN BAGS HAVE BEEN IN PLACE FOR MORE THAN 30 DAYS (REMOVAL REQUIRED DUE TO ULTRAVIOLET DEGRADATION).
  - WHEN BAGS ARE DAMAGED.
- ALL SEDIMENT COLLECTION BAGS SHALL BE INSPECTED DAILY BY THE CONTRACTOR.
- CARE SHALL BE TAKEN DURING REMOVAL TO MINIMIZE LOSS OF ENTRAPPED SEDIMENT.

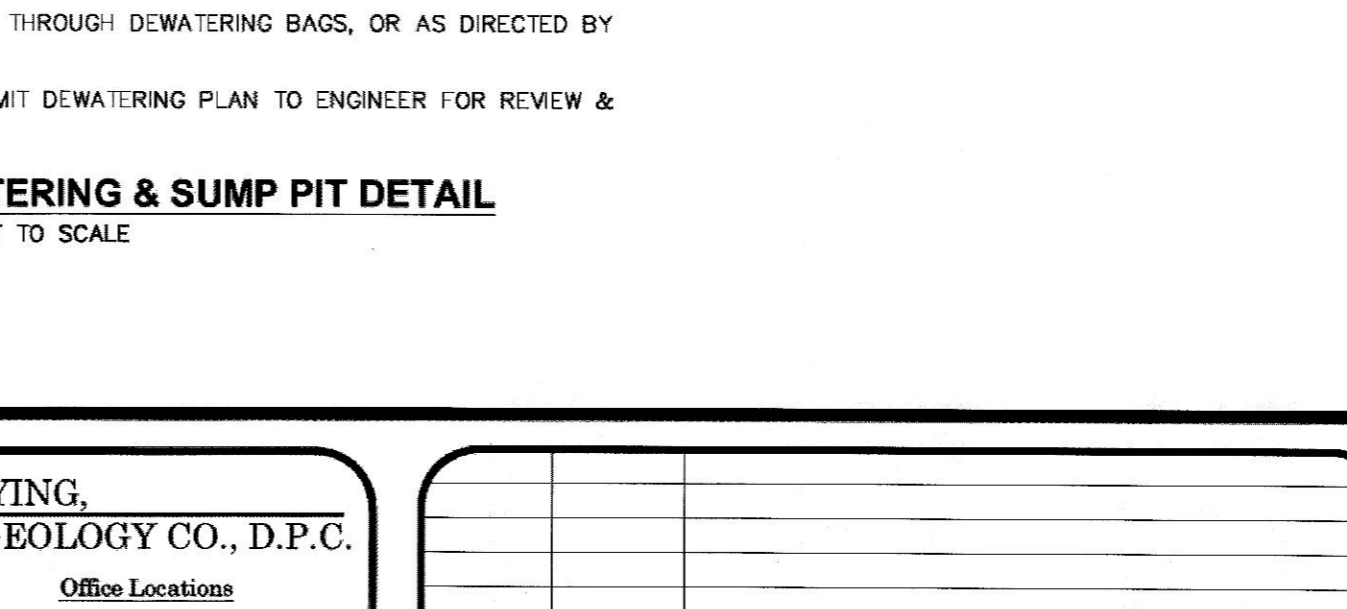
**10 SEDIMENT COLLECTION DEWATERING BAG DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- MINIMUM DEPTH OF SWALE SHALL BE 12".
- SWALE SHALL BE AT LEAST 8 FEET WIDE AT TOP.
- SWALE SHALL BE SEDED AND MULCHED WITH FAST GERMINATING RYE 15 LBS. TO 25 LBS. PER 1,000 SF.
- SLOPE OF SWALE SHALL BE MINIMUM 2%.

**14 PERMANENT GRASS LINED DIVERSION SWALE DETAIL**  
SCALE: NOT TO SCALE



**NOTES:**

- SUMP PIT QUANTITY & LOCATION SHALL BE DETERMINED BY CONTRACTOR.
- PERFORATIONS IN THE STANDPIPE SHALL BE EITHER CIRCULAR OR SLOTS. PERFORATION SIZE SHALL NOT EXCEED 1/2" INCH DIAMETER. PUMP RATE SHALL NOT EXCEED INFLOW RATE INTO STAND PIPE.
- CRUSHED STONE OR GRAVEL SHALL BE NYS DOT #2 SIZE OR EQUIVALENT AND SHALL BE WASHED PRIOR TO INSTALLATION WITHIN SUMP.
- DISCHARGE SHALL BE THROUGH DEWATERING BAGS, OR AS DIRECTED BY ENGINEER.
- CONTRACTOR TO SUBMIT DEWATERING PLAN TO ENGINEER FOR REVIEW & APPROVAL.

**11 DEWATERING & SUMP PIT DETAIL**  
SCALE: NOT TO SCALE

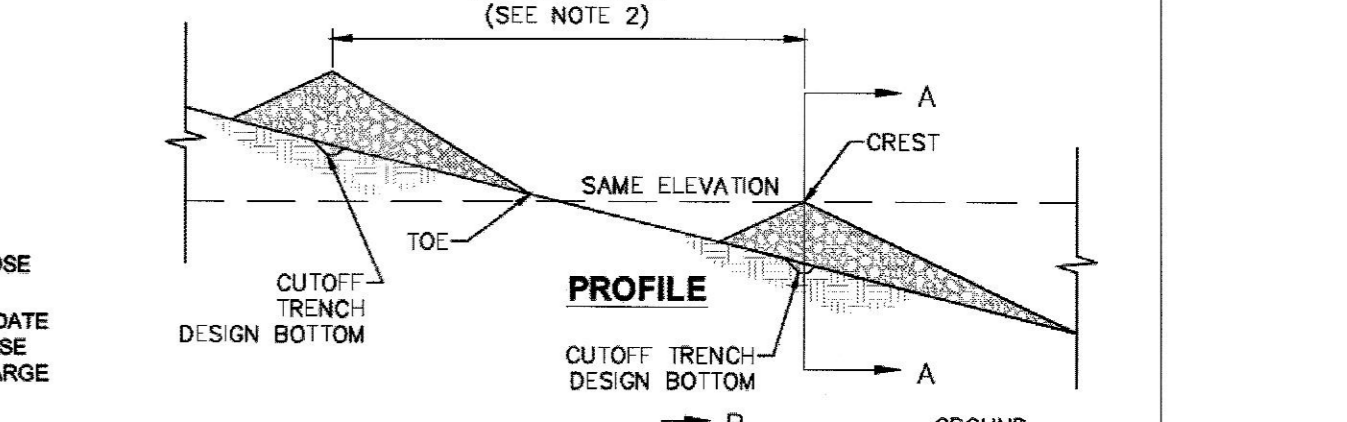


**CONSTRUCTION SPECIFICATIONS:**

- STONE SHALL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON THE PLAN.
- SET SPACING OF CHECK DAMS IN ACCORDANCE WITH THE FOLLOWING:
 

CHECK DAM SPACING INCREMENT	2'-6" DEEP DITCH/SWALE W/ 1'-9" HIGH CHECK DAM (SPACING = 100 FEET PER 1000 SF)
SLOPE	SPACING
0.5%	305'
1%	610'
2%	1220'
3%	1830'
4%	2440'
5%	3050'
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CURB, ENTRANCES BELOW CHECK DAM ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
- MAXIMUM DRAINAGE AREA IS 2 ACRES.

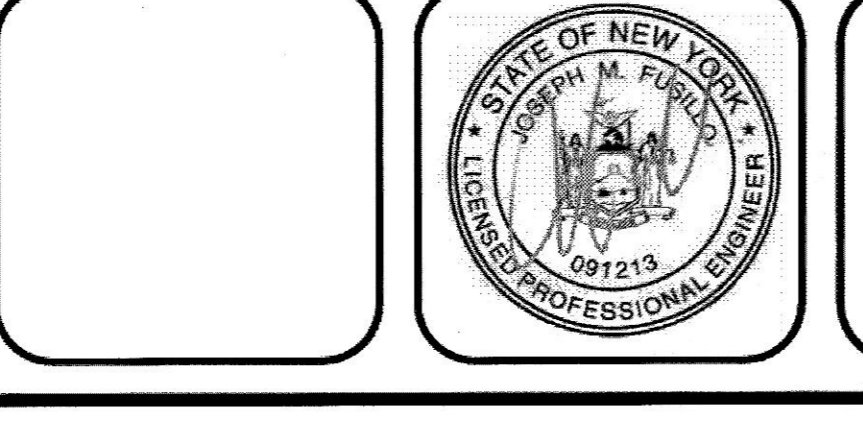
**13 STONE CHECK DAM DETAIL**  
SCALE: NOT TO SCALE



**NOTE:** SEE LANDSCAPING PLAN FOR ADDITIONAL TREE PROTECTION NOTES.

**15 TEMPORARY TREE PROTECTION DETAIL**  
SCALE: NOT TO SCALE

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rev.	date	description
2	7/2/21	REVISED PER DDDH AND DOWNA COMMENTS
1	4/19/21	REVISED PER PLANNING BOARD COMMENTS

BELLEFIELD AT HISTORIC HYDE PARK

**AMENDED EROSION & SEDIMENT CONTROL DETAILS**

TOWN OF HYDE PARK, DUTCHESS COUNTY, NEW YORK

Designed LTN PB  
checked  
date 3/23/21  
scale  
project no. 81235.09  
sheet no. C550



SPDES GENERAL PERMIT GP-0-15-002 COMPLIANCE NOTES:

THIS PLAN SET AND THE ACCOMPANYING SWPPP ENTITLED "STORMWATER POLLUTION PREVENTION PLAN THE INN AT BELLEFIELD" HAVE BEEN SUBMITTED AS A SET. THESE ENGINEERING DRAWINGS ARE CONSIDERED AN INTEGRAL PART OF THE SWPPP. THEREFORE THE PLAN SET IS NOT CONSIDERED COMPLETE WITHOUT THE SWPPP.

- 1. THIS PROJECT HAS APPLIED FOR A WAIVER THE TOWN OF HYDE PARK ALLOWING THE DISTURBANCE OF MORE THAN FIVE (5) ACRES OF LAND AT ANY ONE TIME. THEREFORE, IF THE CONTRACTOR'S CONSTRUCTION SEQUENCE REQUIRES THE DISTURBANCE OF MORE THAN FIVE ACRES AT ANY ONE TIME, WRITTEN APPROVAL MUST BE OBTAINED FROM THE TOWN OF HYDE PARK PRIOR TO EXCEEDING THE 5 ACRE LIMIT.

CONSTRUCTION SEQUENCING NOTES:

- 1. PRIOR TO COMMENCING ANY CLEARING, GRUBBING, EARTHWORK ACTIVITIES, ETC. AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (I.E. SILT FENCES, TREE PROTECTION/BARRIER FENCES, STABILIZED CONSTRUCTION ENTRANCES, STORM DRAIN SEDIMENT FILTERS, DRAINAGE DITCH SEDIMENT FILTERS, ETC.) INDICATED ON THE PROJECT DRAWINGS. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
2. THE CONTRACTOR SHALL CLEAR AND GRUB THE AREA OF THE STORMWATER MANAGEMENT FACILITIES. THE AREA TRIBUTARY TO THE SEDIMENT TRAP SHALL NOT EXCEED 4.26 ACRES IN EXTENT. THE AREA TRIBUTARY TO THE SEDIMENT BASIN SHALL NOT EXCEED 61.3 ACRES IN EXTENT.
3. THE STORMWATER DETENTION BASIN SHALL BE UTILIZED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL THE OUTLET CONTROL STRUCTURES AND THE EARTHEN BERM. THE BASIN SHALL BE GRADED TO THE TOP OF THE AQUATIC BENCH AS INDICATED IN THE TYPICAL STORMWATER MANAGEMENT BASIN SECTION PRESENTED IN THE PROJECT DRAWINGS.
4. PRIOR TO COMMENCING CLEARING, GRUBBING AND/OR EARTHWORK ACTIVITIES IN ANY OTHER AREA OF THE SITE, THE CONTRACTOR SHALL INSTALL INLET AND OUTLET PROTECTION MEASURES (RIPRAP OVERFLOW WEIR(S), CULVERT INLET/OUTLET PROTECTION, ETC.) AND SHALL STABILIZE THE AREAS DISTURBED DURING THE CONSTRUCTION OF THE SEDIMENT BASIN.
5. THE CONTRACTOR SHALL INSTALL TEMPORARY DIVERSION MEASURES WITH ASSOCIATED STABILIZATION MEASURES (I.E., VEGETATIVE COVER, DRAINAGE DITCH SEDIMENT FILTERS, STORM DRAIN SEDIMENT FILTERS, ETC.) TO ASSURE THAT STORMWATER RUNOFF IS CONVEYED TO THE TEMPORARY SEDIMENT BASIN. TEMPORARY DIVERSION MEASURES SHALL BE LOCATED IN A MANNER THAT WILL ASSURE THAT THE AREA TRIBUTARY TO EACH DIVERSION DOES NOT EXCEED FIVE (5) ACRES. THESE TEMPORARY DIVERSION MEASURES SHALL BE INSPECTED DAILY AND REPAIRED/STABILIZED AS NECESSARY TO MINIMIZE EROSION.
7. THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRADING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED.
8. INSTALL PROTECTIVE MEASURES AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
9. CONSTRUCT ALL UTILITIES, CURB AND GUTTER, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. PLACE REQUIRED RIP-RAP AT LOCATIONS SHOWN ON THE PLANS.
10. FINALIZE PAVEMENT SUB-GRADE PREPARATION.
11. REMOVE PROTECTIVE MEASURES AROUND INLETS AND MANHOLES NO MORE THAN 24 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
12. INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
13. PRIOR TO FINALIZING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY, ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEANED OF ALL SILT AND SEDIMENT.
14. UPON COMPLETION OF SITE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL FINALIZE CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY. CONTRACTOR SHALL FINISH GRADE THE FORBAY(S), AQUATIC BENCHES, AND WET POOL(S) AND STABILIZE AS INDICATED IN THE PROJECT DRAWINGS.
15. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

EROSION AND SEDIMENT CONTROL MEASURES:

- 1. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
2. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
3. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.
4. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "TROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

PERMANENT AND TEMPORARY VEGETATION: INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE: INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. CHECK FOR MUD, SEDIMENT BUILD UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WEATHER. RE-SHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

SILT FENCE: INSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

SOIL STOCKPILE: INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPAIR THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

DUST CONTROL: SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOI STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

CHECK DAM: INSPECT CHECK DAMS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. IF SIGNIFICANT EROSION HAS OCCURRED BETWEEN STRUCTURES A LINE OF STONE OR OTHER SUITABLE MATERIAL SHOULD BE INSTALLED IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAM AS NEEDED TO ALLOW CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER APPROVAL OF ENGINEER.

EROSION CONTROL BLANKET: INSPECT THE BLANKET EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. REPLACE WIRE STAPLES AS REQUIRED. REPAIR AND RESEED WHERE CRACKS AND DAMAGED VEGETATION IS EVIDENT. WHEN DAMAGED BEYOND REPAIR OR NO LONGER FUNCTIONING, THE BLANKET SHALL BE REPLACED.

TEMPORARY SWALE: INSPECT ALL EARTH DIKES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION SHALL BE REPAIRED IMMEDIATELY.

SEDIMENT TRAP: INSPECT ALL SEDIMENT TRAPS EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. REPAIRS SHALL BE MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 OF THE DESIGN DEPTH OF THE TRAP.

STORM DRAIN INLET PROTECTION: INSPECT ALL STORM DRAIN INLET PROTECTION DEVICES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY.

DEWATERING PITS: (IF REQUIRED) - INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PIPES OF OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, PIT SHALL BE DISMANTLED AND CONSTRUCT NEW PITS AS NEEDED.

SNOW AND ICE CONTROL: PARKING LOTS, ROADWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE CONTROL.

TRACKOUT PLATES: INSPECT TWICE DURING THE DAY AND AT THE END OF THE DAY AND CHECK FOR SEDIMENT BUILD UP AND MUD BUILD UP. TRACKOUT PLATES SHALL BE SWEEP AND CLEARED TWICE A DAY AND WASH DOWN AT THE END OF THE DAY. FOLLOWING PRECIPITATION EVENTS, CLEARING AND WASH DOWN TWICE DURING THE DAY AND AT THE END OF THE DAY.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, JULY 2016.
2. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT USED IMMEDIATELY FOR GRADING PURPOSES. INSTALL SILT FENCE AROUND SOIL STOCKPILES.
3. APPLY SURFACE STABILIZATION AND RESTORATION MEASURES - AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED, SUSPENDED, OR INCOMPLETE AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED. (SEE SPECIFICATIONS FOR TEMPORARY VEGETATIVE COVER). AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT BE REDISTURBED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. (SEE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER). SEEDING FOR PERMANENT VEGETATIVE COVER SHALL BE WITHIN THE SEASONAL LIMITATIONS. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE. FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
4. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
7. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.
8. IN LOCATIONS WHERE WATER OR SANITARY FORCEMAIN ARE BEING INSTALLED, TRENCHING IS TO EITHER BE IMMEDIATELY BACKFILLED AND COVERED WITH STRAW AND SEED OR MATERIAL IS TO BE STORED ON THE UPGRADE SIDE OF THE TRENCH.

TOPSOIL SPECIFICATIONS:

- 1. EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STOCKPILES SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.

SITE PREPARATION:

- 1. COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.
2. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%.
3. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER LITTER.

TOPSOIL MATERIALS:

- 1. NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:
A. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.
B. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" Sieve WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.
C. CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" Sieve.
D. CONTAINING THE FOLLOWING WASHED GRADATIONS:

Table with columns: Sieve Designation, % Passing. Values for 1/4" (97-100) and No 200 (20-80).

APPLICATION AND GRADING:

- 1. TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER.
2. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDD, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

VEGETATIVE COVER SPECIFICATIONS:

TEMPORARY VEGETATIVE COVER (DURING CONSTRUCTION):

- 1. SITE PREPARATION (SAME AS PERMANENT VEGETATIVE COVER)
2. SEED MIX. (APPLY AT RATE OF 3 TO 4 LBS PER 1000 SF)
AMOUNT BY: MINIMUM % PURITY GERMINATION
WEIGHT SPECIES OR VARIETY
100% ANNUAL RYEGRASS 98% 90%
3. SEEDING (SAME AS PERMANENT VEGETATIVE COVER)

PERMANENT VEGETATIVE COVER (AFTER CONSTRUCTION):

- 1. SITE PREPARATION
A. BRING AREA TO BE SEEDD TO REQUIRED GRADE. A MINIMUM OF 4" OF TOPSOIL IS REQUIRED.
B. PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4 INCHES.
C. REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.
D. LIME TO PH OF 6.5.
E. FERTILIZER: USE 5-10-5 (NPK) OR EQUIVALENT. APPLY AT RATE OF 4 LBS/1000 SF.
F. INCORPORATE LIME AND FERTILIZER IN THE TOP 4 INCHES OF TOPSOIL.
G. SMOOTH AND FIRM THE SEEDBED.
2. SEED MIXTURE FOR USE ON LAWN AREAS: PROVIDE FRESH, CLEAN, NEWLY PREPARED SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS.

LAWN SEED MIX. (APPLY AT RATE OF 5 TO 6 LBS PER 1000 SF)

Table for Lawn Seed Mix with columns: Amount by, Minimum % Purity, Germination. Lists Kentucky Blue Grass, Perennial Rye, and Creeping Red Fescue.

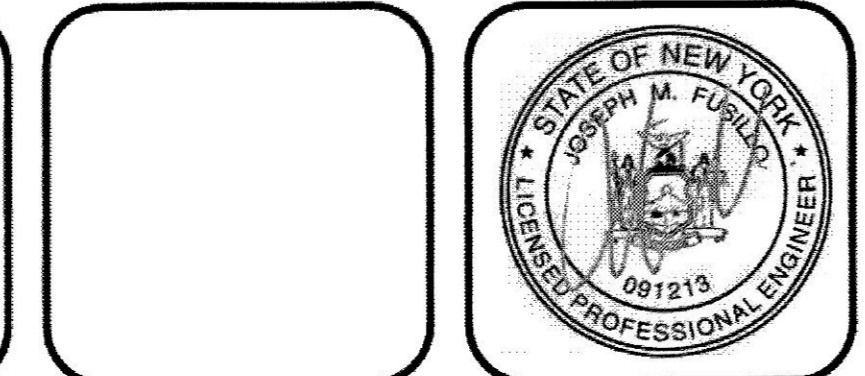
Table for Shade with columns: Amount by, Minimum % Purity, Germination. Lists Kentucky Blue Grass, Perennial Rye, and Creeping Red Fescue.

- 3. SEEDING
A. APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER OR HYDRO-SEEDER AT RATE INDICATED. CLEAN, NEW-GROW SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS.
B. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS:
I. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS /ACRE MIN., TO BE APPLIED ONCE SEEDING IS COMPLETE.
II. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY HYDROSEEDER AT RATE OF 2,000 LBS/ACRE.
C. ALL SEEDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
D. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO DISLODGE PLANTING SOIL.
E. UNLESS OTHERWISE DIRECTED IN WRITING, SEED FROM MARCH 15TH TO JUNE 15TH, AND FROM AUGUST 15TH TO OCTOBER 15TH.

COMPACTION REQUIREMENTS

Table with columns: Location, Compaction, Testing Frequency. Lists locations like Pipe Trench Backfill, Pipe Bedding, and Pavement Subbase.

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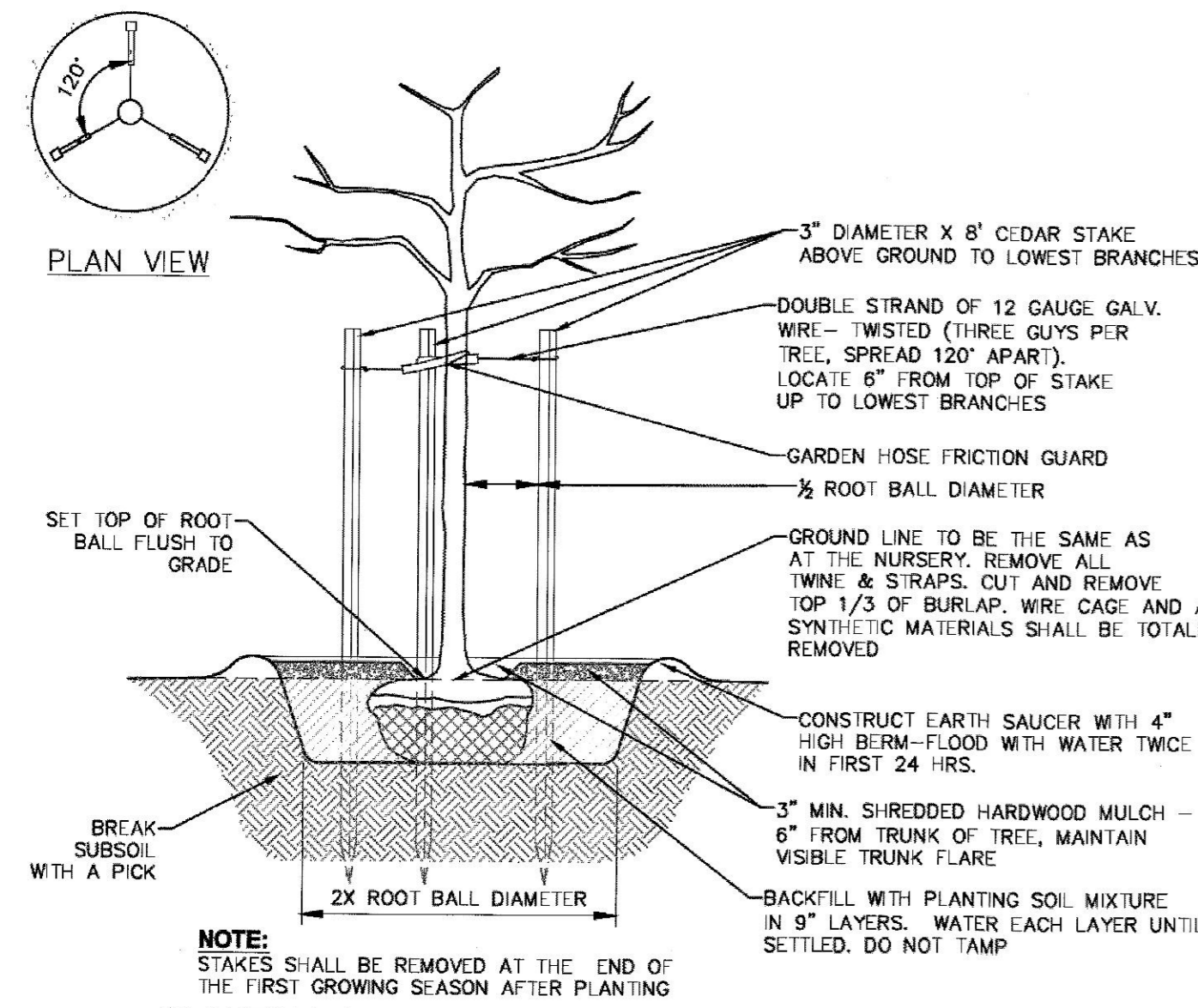


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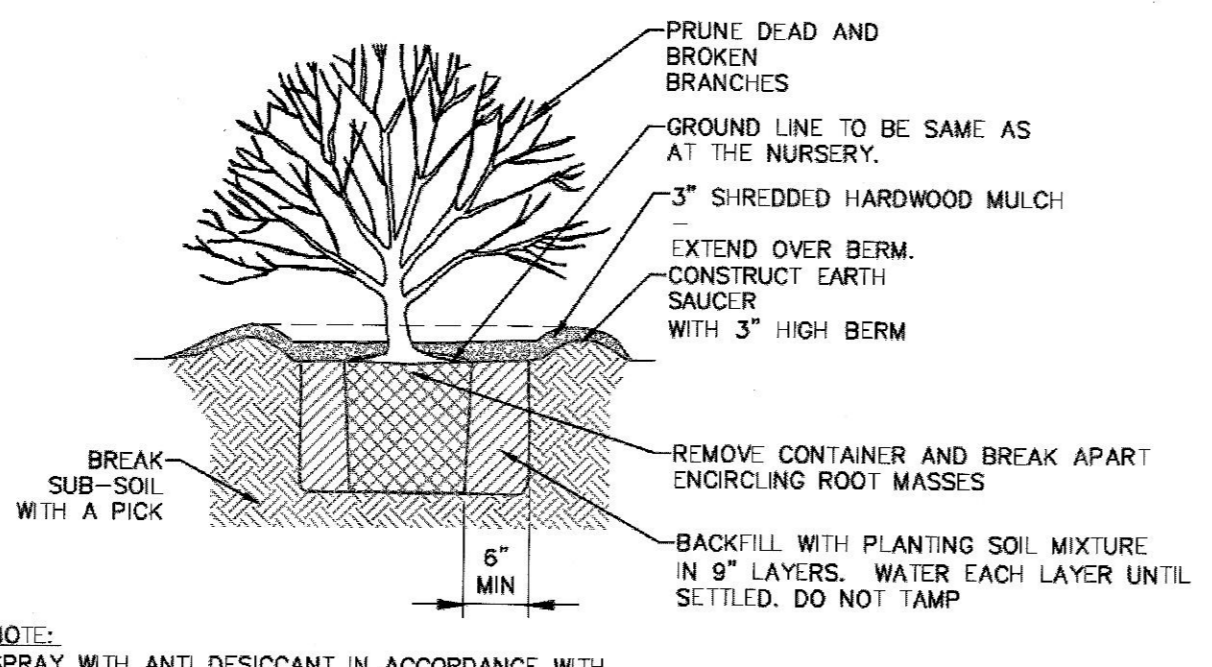
Revision table with columns: rev, date, description. Shows two revisions related to DCD001 and DC001A comments.

BELLEFIELD AT HISTORIC HYDE PARK AMENDED EROSION & SEDIMENT CONTROL NOTES TOWN OF HYDE PARK, DUTCHESS COUNTY, NEW YORK

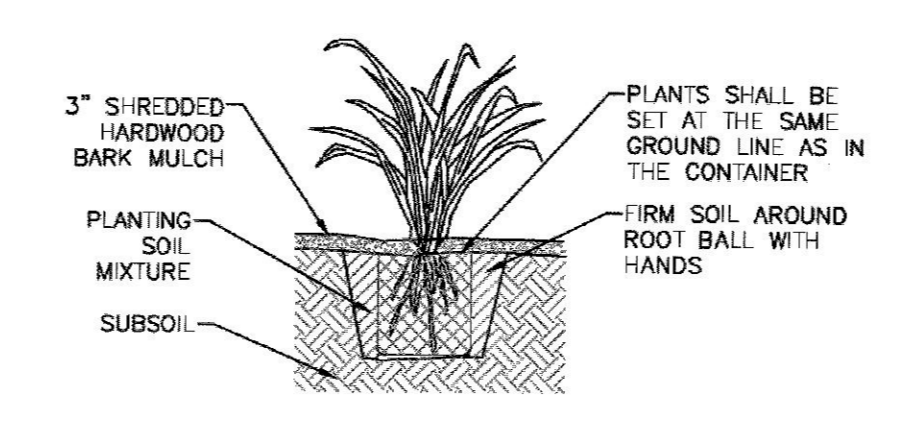
Designation table with columns: designed LTN, checked PB, date, scale, project no., sheet no. Values include 3/23/21, 81235.09, C551.



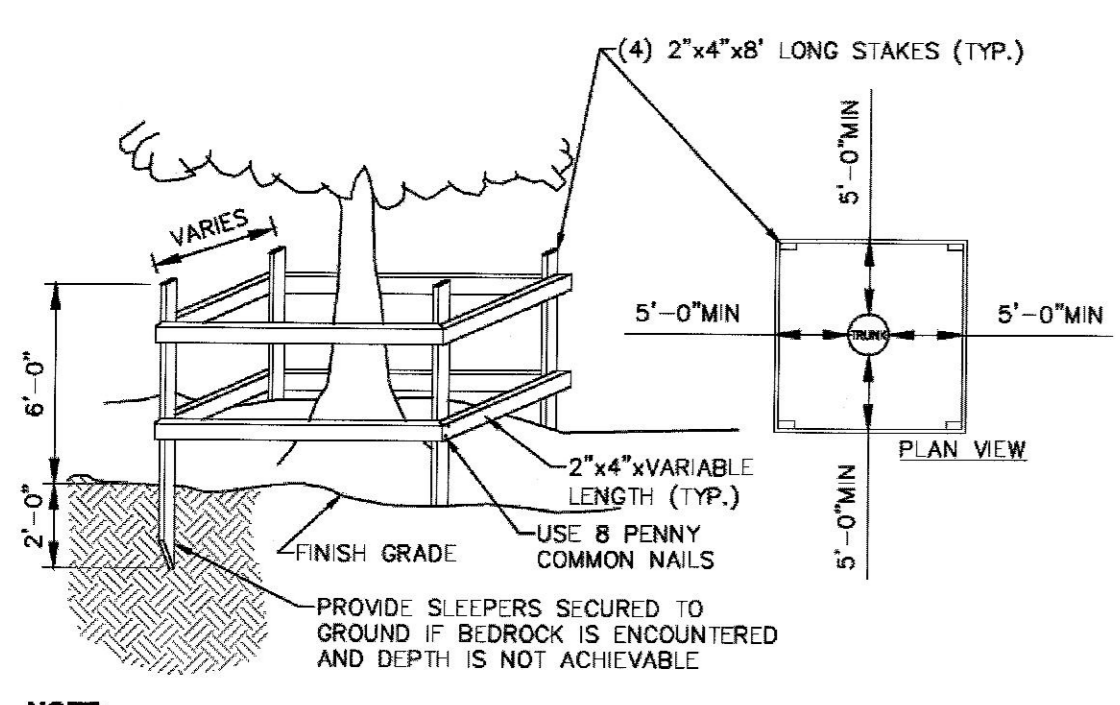
**1 PLANTING AND GUYING DETAILS-FOR TREES SMALLER THAN 3\"/>**



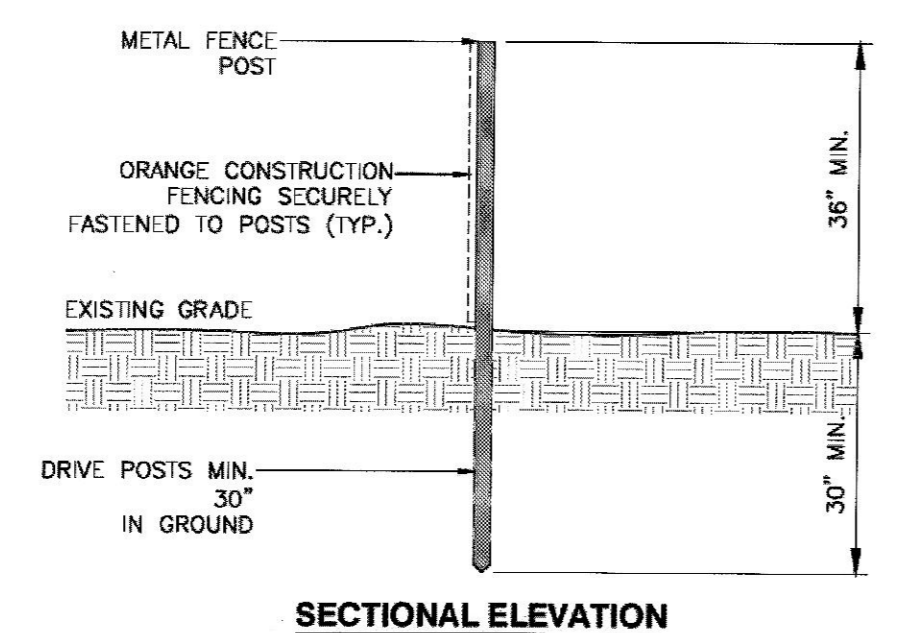
**2 SHRUB PLANTING DETAIL FOR CONTAINERIZED SHRUBS**  
SCALE: NOT TO SCALE



**3 CONTAINERIZED PERENNIAL PLANTING**  
SCALE: NOT TO SCALE



**4 TEMPORARY TREE PROTECTION DETAIL**  
SCALE: NOT TO SCALE



**5 TREE PROTECTION FENCING DETAIL**  
SCALE: NOT TO SCALE

**LANDSCAPING NOTES:**

- THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
  - THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
  - THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
  - THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.
  - NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
  - QUALITY ASSURANCE:
    - NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
    - SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, INC. (AAN), UNLESS OTHERWISE SPECIFIED.
    - NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, WOODRUS PLANT NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
    - SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
  - SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
    - UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
    - UNLESS OTHERWISE DIRECTED IN WRITING PLANT TREES AND SHRUB FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 1.
    - AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE LAWNS OR PLANTS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PROVIDE STABILIZING WITH TEMPORARY VEGETATIVE COVER (TOPSOIL AND TEMPORARY COVER SEED MIX) WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
  - PRODUCTS:
    - IMPORTED TOPSOIL: PROVIDE TOPSOIL CONFORMING TO THE FOLLOWING:
 

SIEVE DESIGNATION	% PASSING
1"	100
1/4"	97-100
NO 200	20-60
    - SEED MIXTURE: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTION SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. PROVIDE THE FOLLOWING MIXTURES:
      - LAWN SEED MIX
 

SUN AND PARTIAL SHADE:			
AMOUNT BY WEIGHT	SPECIES OR VARIETY	MINIMUM % PURITY	MINIMUM % GERMINATION
50%	KENTUCKY BLUE GRASS*	95%	80%
20%	PERENNIAL RYE	98%	90%
30%	CREeping RED FESCUE	97%	85%
100%	*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS.		
      - TEMPORARY COVER SEED MIX
 

SHADE:			
AMOUNT BY WEIGHT	SPECIES OR VARIETY	MINIMUM % PURITY	MINIMUM % GERMINATION
25%	KENTUCKY BLUE GRASS**	95%	80%
20%	PERENNIAL RYE	98%	90%
35%	CREeping RED FESCUE	97%	85%
20%	CHEWINGS RED FESCUE	97%	85%
100%	**SHADE TOLERANT VARIETY		
- EXECUTION:
  - LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
  - TOPSOIL SHALL BE SPREAD NO LESS THAN 4" OVER SUB-GRADE MATERIAL. SOIL AMENDMENTS SHALL BE THOROUGHLY MIXED INTO THE TOP 4" OF TOPSOIL, FOLLOWING THE SPECIFICATIONS STATED BELOW.
  - PERFORM FINE GRADING TO FINISHED ELEVATION ONLY IMMEDIATELY PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADDED TO A SMOOTH, EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
  - FERTILIZING:
    - THE SOIL SHALL BE TESTED FOR PH AND LIME ADDED AS NECESSARY. ALL AMENDMENTS SHALL BE CHECKED AND APPROVED BY LANDSCAPE ARCHITECT BEFORE AMENDMENTS ARE MADE.
    - APPLY FERTILIZER AT RATE OF 4 LBS/1000 SF FOR LAWN AREAS.
  - LAWN:
    - LAWN SEED MIX: SEED AT THE RATE OF 5 TO 6 LBS PER 1,000 SF.
    - TEMPORARY COVER SEED MIX: SEED AT THE RATE OF 3 TO 4 LBS PER 1,000 SF.
    - TEMPORARY COVER SEED MIX TO BE APPLIED ONLY FOR LATE FALL OR SUMMER SOIL STABILIZATION OUTSIDE ALLOWED SEEDING PERIODS.
  - ALL SEEDING AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS:
    - A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS/ACRE MIN. TO BE APPLIED ONCE SEEDING IS COMPLETE.
    - WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY A HYDROSEEDER AT A RATE OF 2,000 LBS/ACRE.
  - ALL SEEDING SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
  - ALL NEWLY PLANTED AREAS SHALL BE KEPT MOIST BY WATERING UNTIL GRASSES AND GROUND COVERS ARE WELL ESTABLISHED. THE LANDSCAPE CONTRACTOR MUST WATER PLANT MATERIAL WHEN NECESSARY FOR 60 DAYS AFTER INSTALLATION.
  - LAWNS ARE TO BE WARRANTED UNTIL THEY BECOME ESTABLISHED, UNTIL FINAL ACCEPTANCE, AND NOT LESS THAN 60 DAYS AFTER COMPLETION OF ALL WORK. TREES, SHRUBS, GROUND COVERS, AND PERENNIALS SHALL BE WARRANTED AGAINST DEFECTS INCLUDING POOR GROWTH AND DEATH, EXCEPT WHEN RESULTING FROM OWNER NEGLIGENCE, INCIDENTS THAT ARE BEYOND THE CONTROL OF THE LANDSCAPE INSTALLER AND DAMAGE OR ABUSE BY OTHERS, FOR AT LEAST ONE FULL YEAR AFTER PROJECT COMPLETION.
  - LIMIT SUB-GRADE PREPARATION TO AREAS THAT WILL BE PLANTED IN THE IMMEDIATE FUTURE.
  - LOOSEN SUB-GRADE TO A MINIMUM DEPTH OF 4 INCHES. REMOVE STONES LARGER THAN 1-1/2 INCHES IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEUS MATERIALS.
  - MIX SOIL AMENDMENTS THOROUGHLY INTO TOP 4" OF TOPSOIL TO MEET THE THICKNESS, GRADES, AND ELEVATIONS SHOWN. AFTER LIGHT ROLLING AND NATURAL SETTLEMENT, DO NOT SPREAD IF PLANTING SOIL OR SUB-GRADE IS FROZEN.
  - GRADE LAWN AND GRASS AREAS TO A SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORM FINE TEXTURE. ROLL (112 POUND ROLLER MAXIMUM) AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINE GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE. REMOVE TRASH, DEBRIS, STONES LARGER THAN 1-1/2 INCHES IN ANY DIMENSION, AND OTHER OBJECTS THAT MAY INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS.
  - MOISTEN PREPARED LAWN AREAS BEFORE PLANTING WHEN SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.
  - RESTORE PREPARED AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINE GRADING AND BEFORE PLANTING.

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REV.	DATE	DESCRIPTION
2	7/2/21	REVISED PER OGDON AND BOWEN COMMENTS
1	4/19/21	REVISED PER PLANNING BOARD COMMENTS

BELLEFIELD AT HISTORIC HYDE PARK

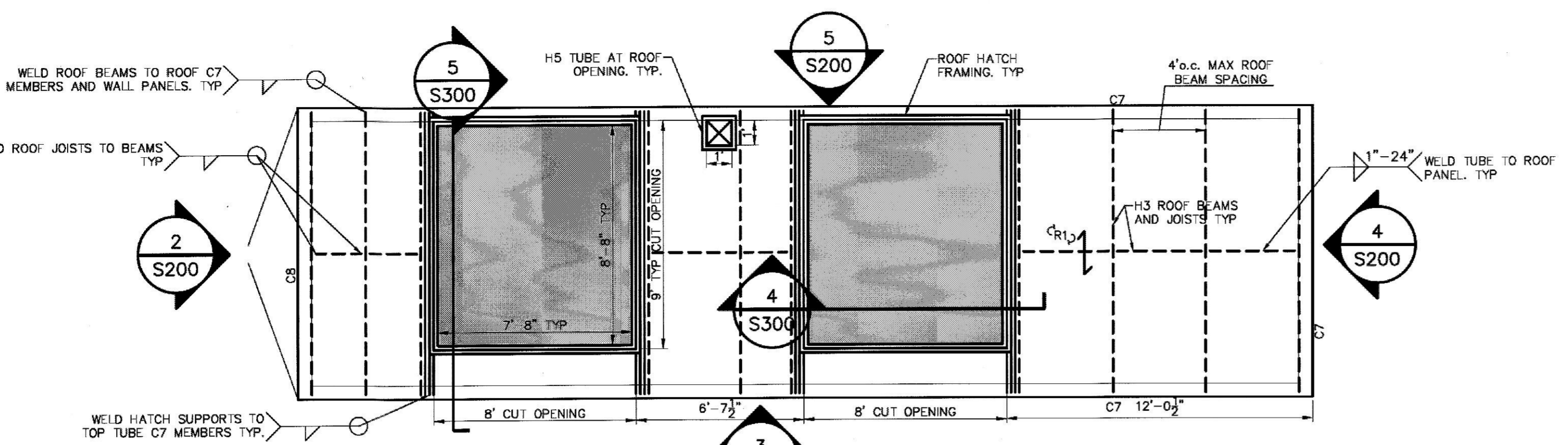
**AMENDED LANDSCAPE DETAILS**

TOWN OF HYDE PARK, DUTCHESS COUNTY, NEW YORK

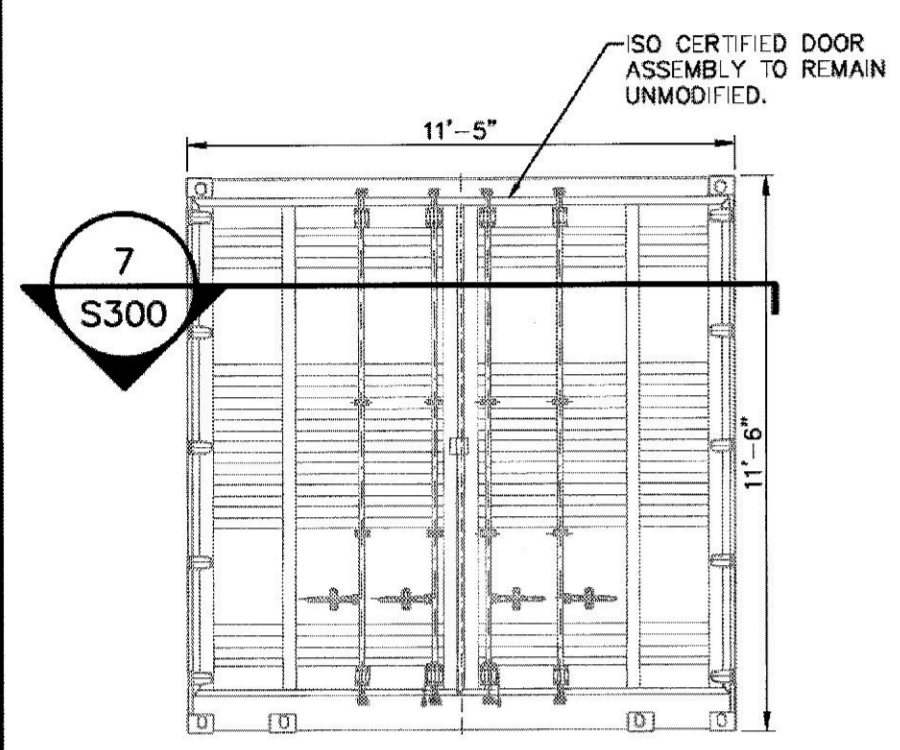
designed LN	checked FB
date 3/23/21	scale
project no. 81235.09	
sheet no.	<b>C580</b>

**LEGEND**

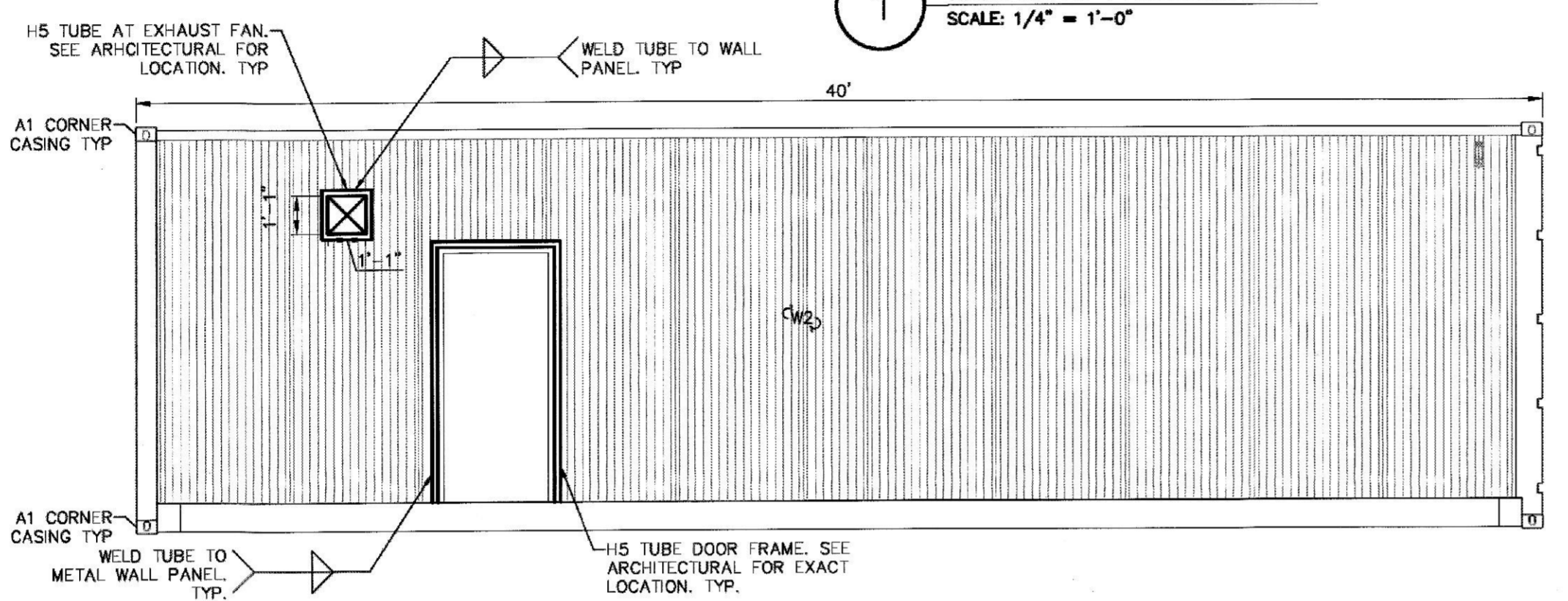
- DIRECTION OF CORRUGATED STEEL ROOF PANELING. SEE S600 FOR ADDITIONAL INFORMATION.
- EDGE OF INTERIOR FINISH BY OTHERS
- ROOF FRAMING MEMBER
- STEEL FRAMING AT OPENINGS
- EDGE OF ROOF FRAMING
- J1, W1, C6, ETC SEE S600 FOR STRUCTURAL MEMBER SCHEDULE INCLUDING GEOMETRY AND MATERIAL TYPE.
- ROOF HATCH



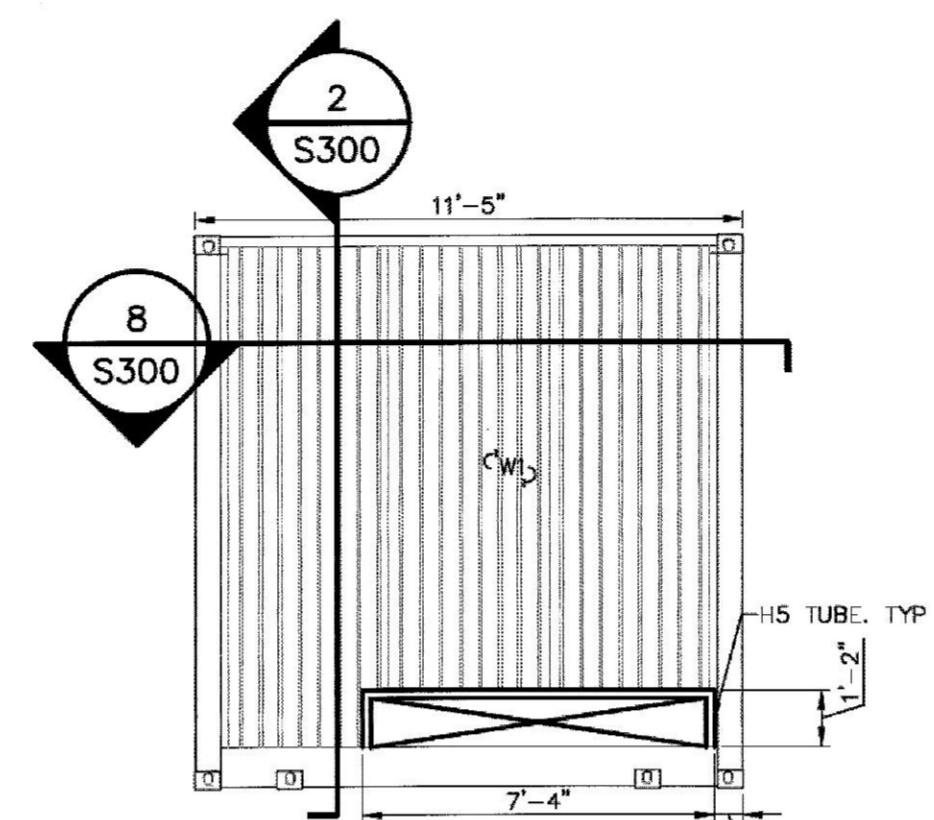
**1 MBR ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



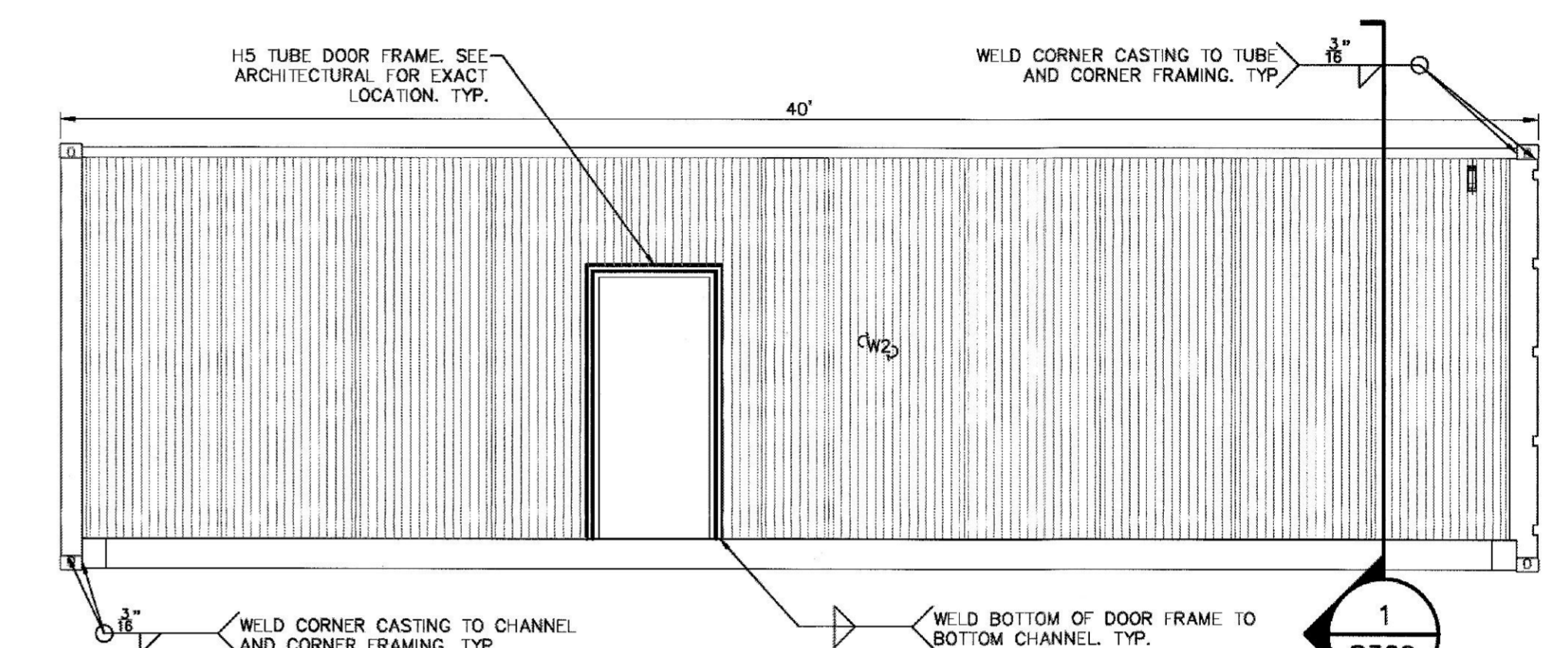
**2 MBR END ELEVATION**  
SCALE: 1/4" = 1'-0"



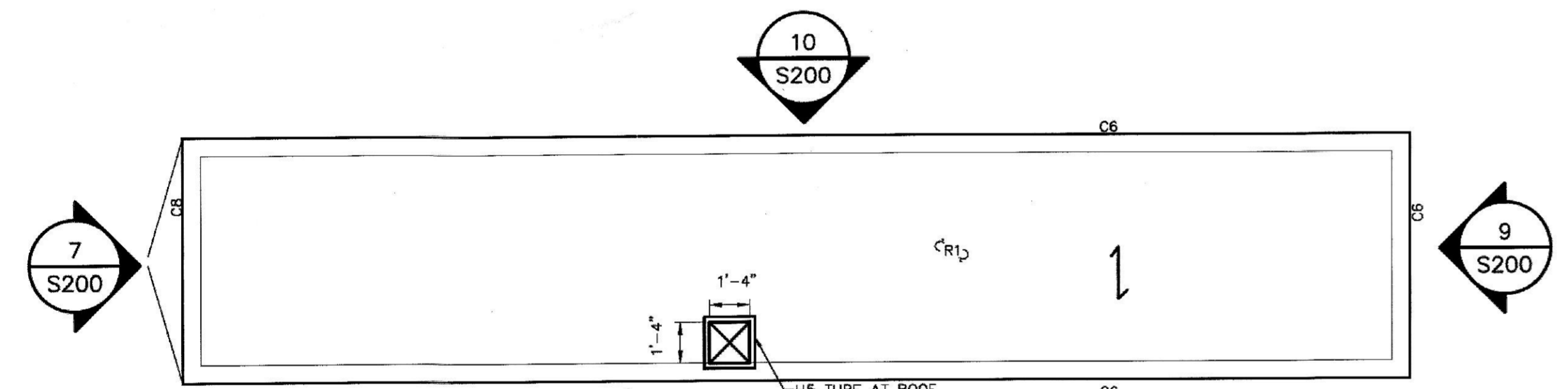
**3 MBR FRONT SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



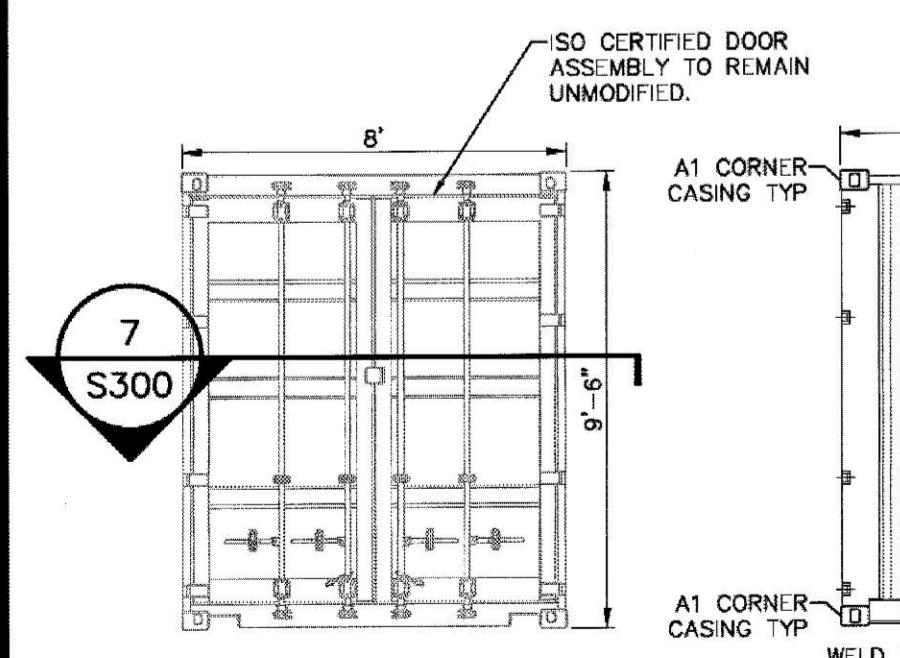
**4 MBR END ELEVATION**  
SCALE: 1/4" = 1'-0"



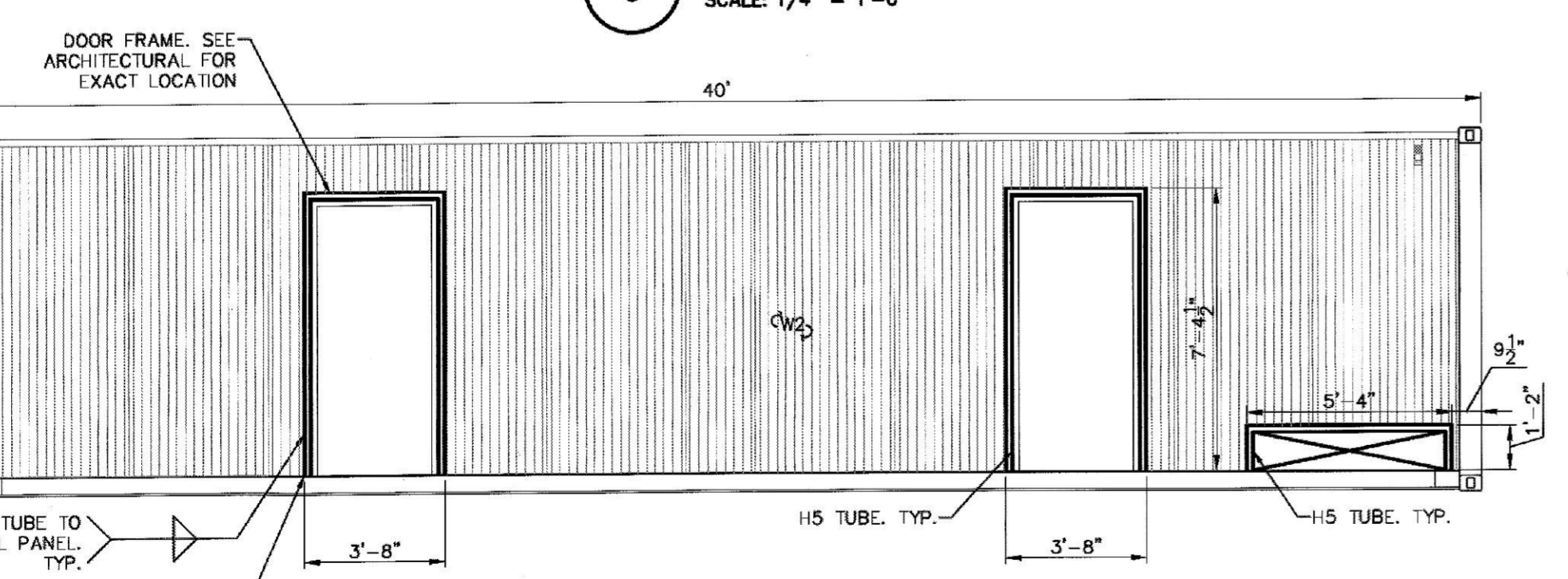
**5 MBR BACK SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



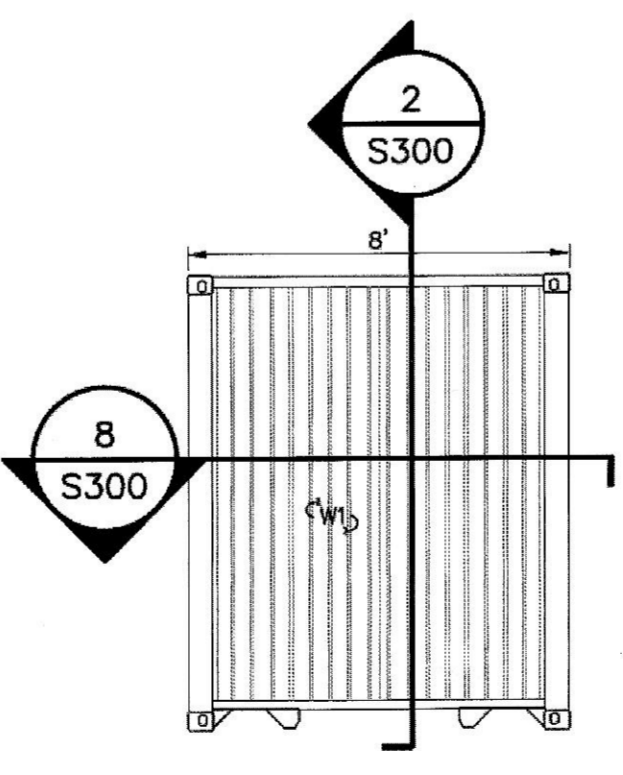
**6 LAB ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



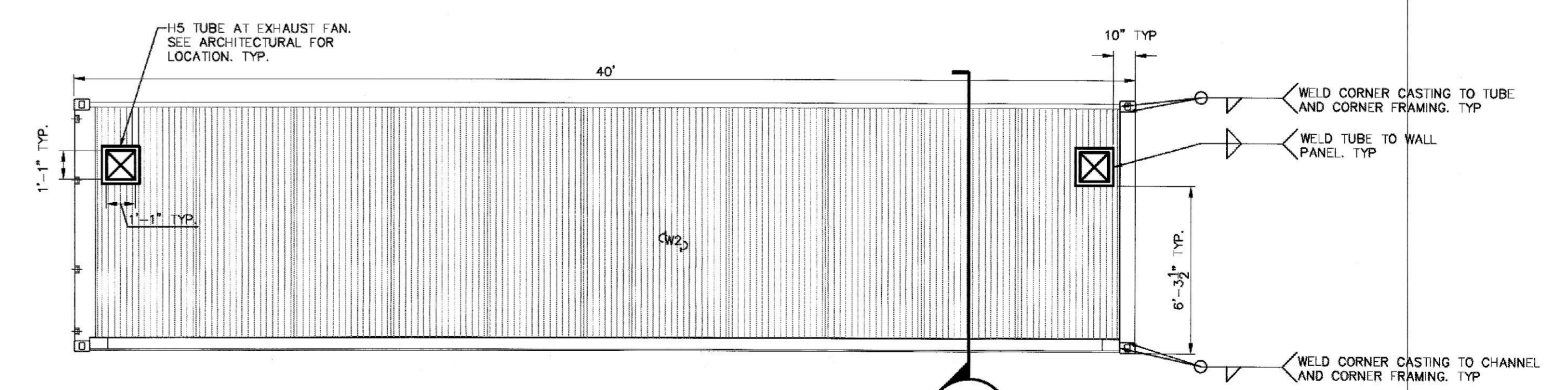
**7 LAB END ELEVATION**  
SCALE: 1/4" = 1'-0"



**8 LAB FRONT SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



**9 LAB END ELEVATION**  
SCALE: 1/4" = 1'-0"



**10 LAB BACK SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"

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Professional Services: Civil Engineers, Land Surveyors, Planners, Environmental & Safety Professionals, Landscape Architects, Transportation Planners & Engineers

rev.	date	description

**BELLEFIELD WASTEWATER TREATMENT PLANT**

**EXTERIOR VIEWS**

HYDE PARK, DUTCHESS COUNTY, NEW YORK

designed	checked
RNS	JL
date	scale
3/23/21	AS NOTED
project no.	31960.00
sheet no.	<b>S200</b>