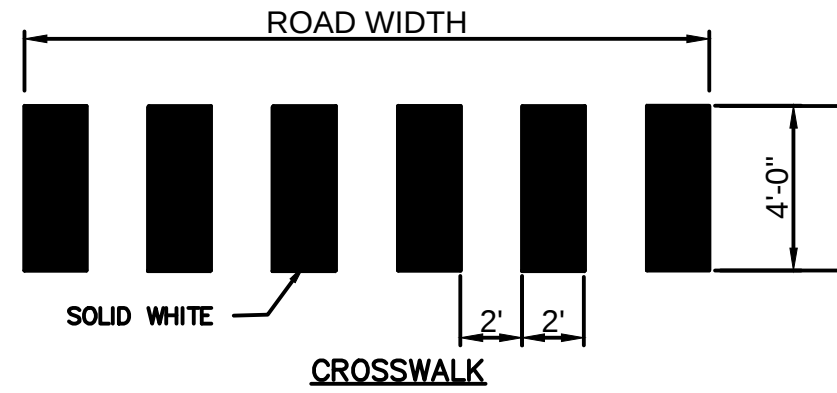
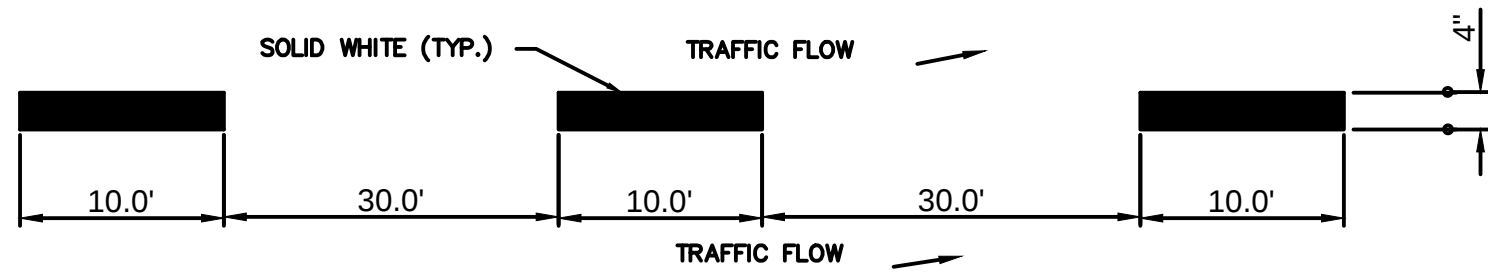
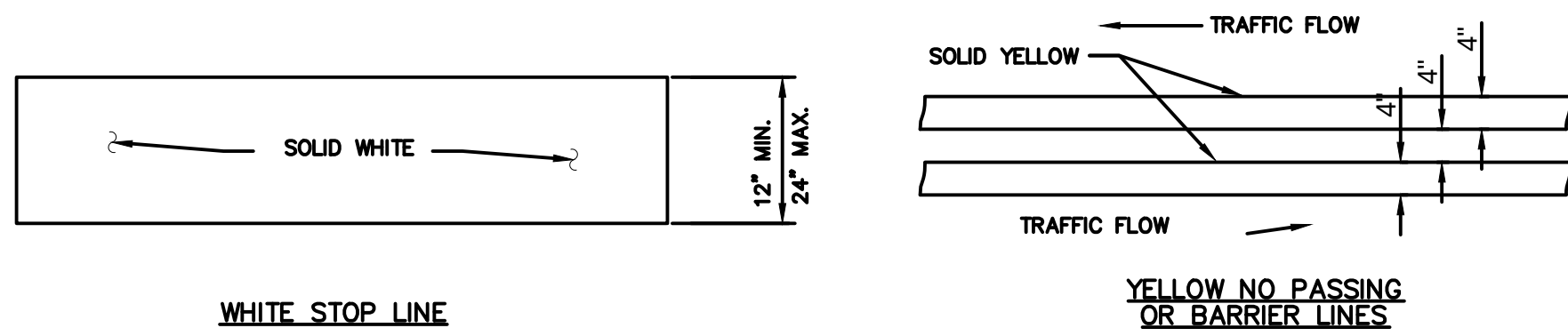
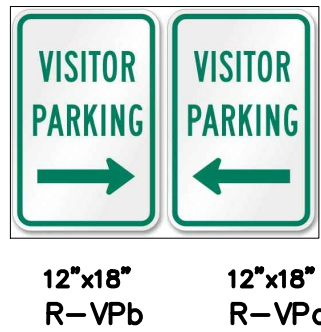
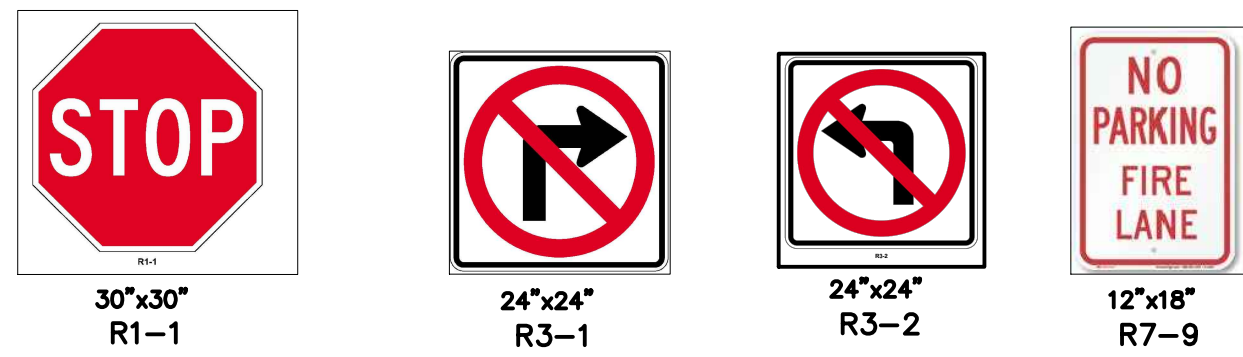
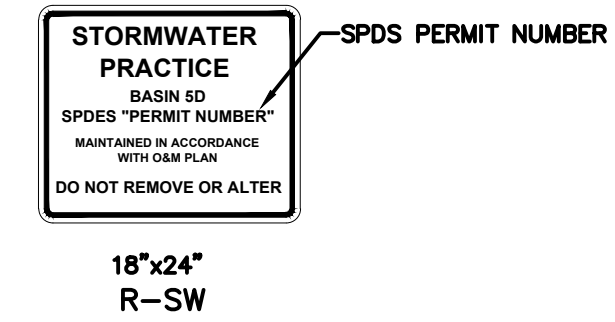
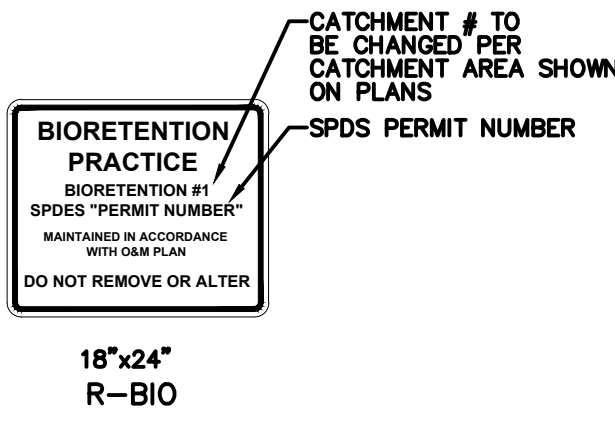




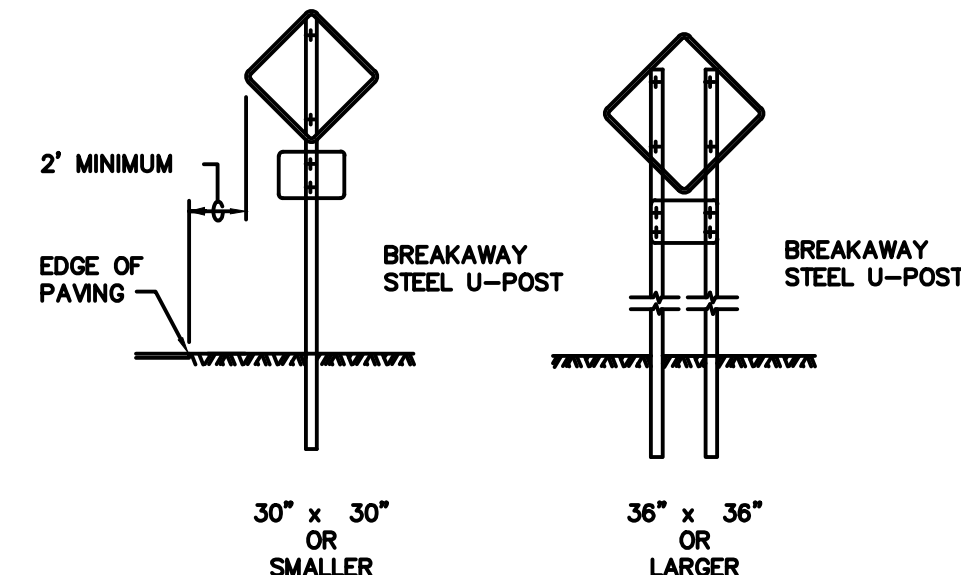
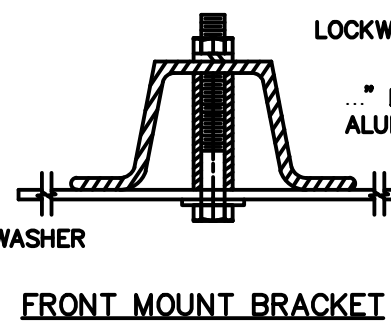
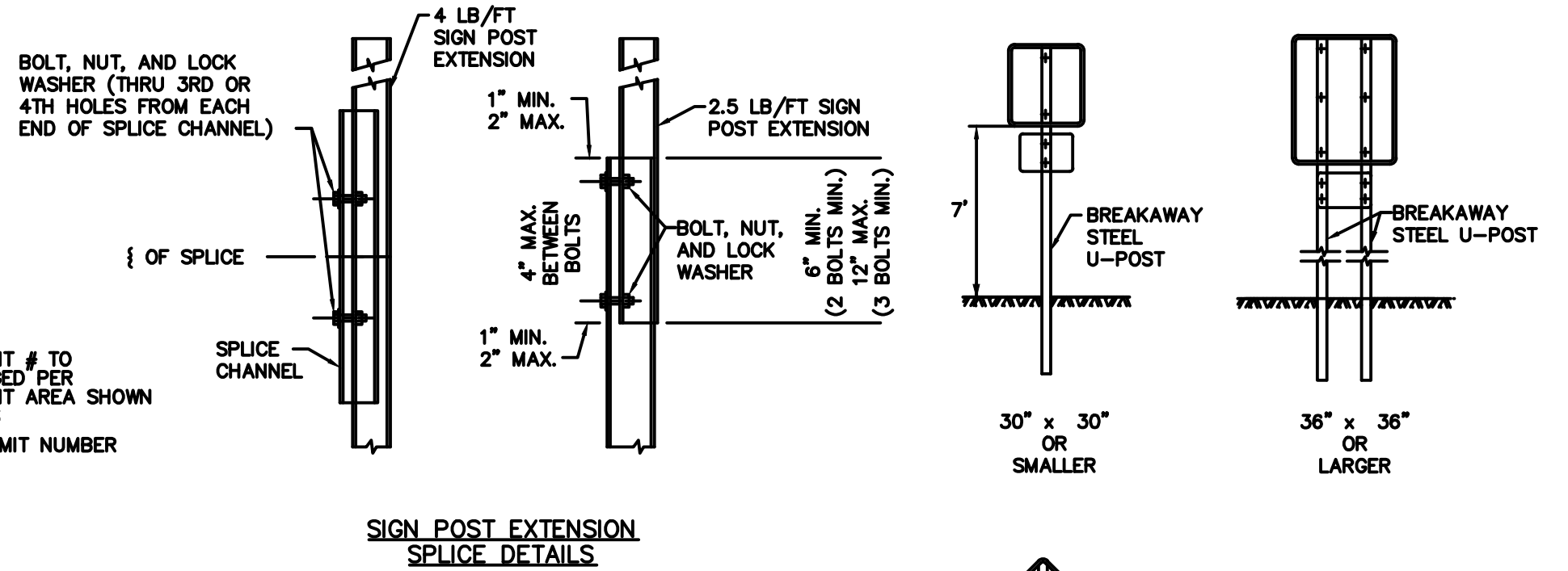
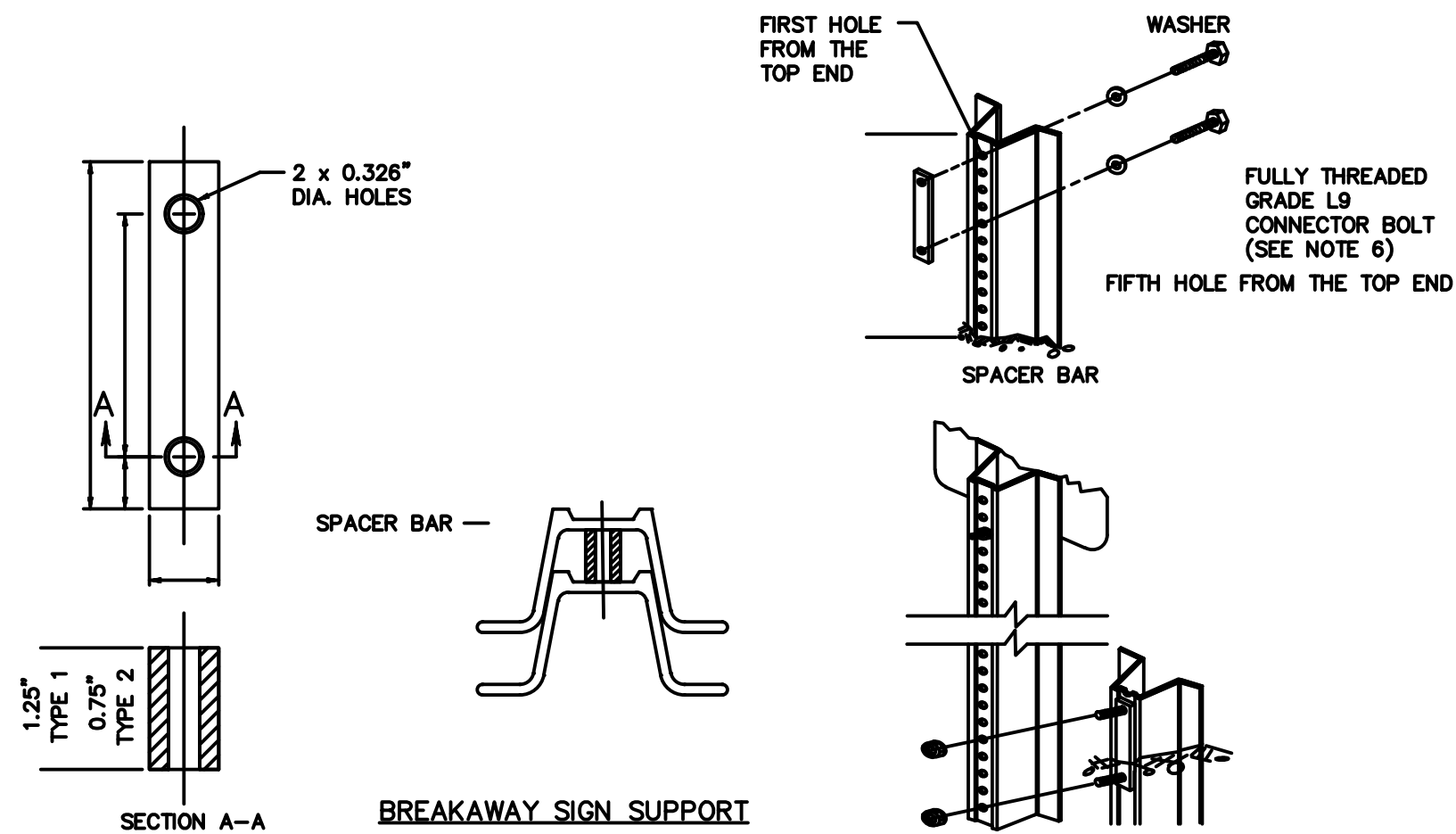
1 TYPICAL PAVEMENT MARKINGS
27-G-1305-D-12 N.T.S.



R-VPa



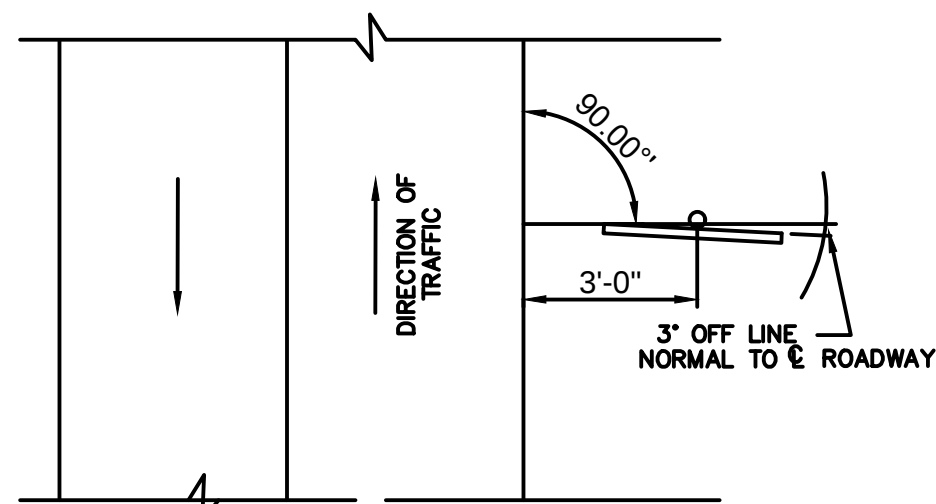
NOTES:
1. ALL SIGNS SHALL BE HIGH VISIBILITY AND HIGH LEGIBILITY BY DAY AND NIGHT.
2. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



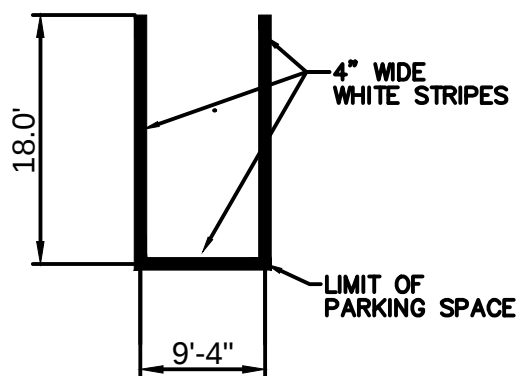
PANEL SIZE (W x H)	# OF POSTS	POST SIZE (LB / FT)
18" x 18"	1	2.5
18" x 24"	1	2.5
24" x 24"	1	2.5
24" x 30"	1	2.5

U-POST SELECTION TABLE
BREAKAWAY SIGN SUPPORT

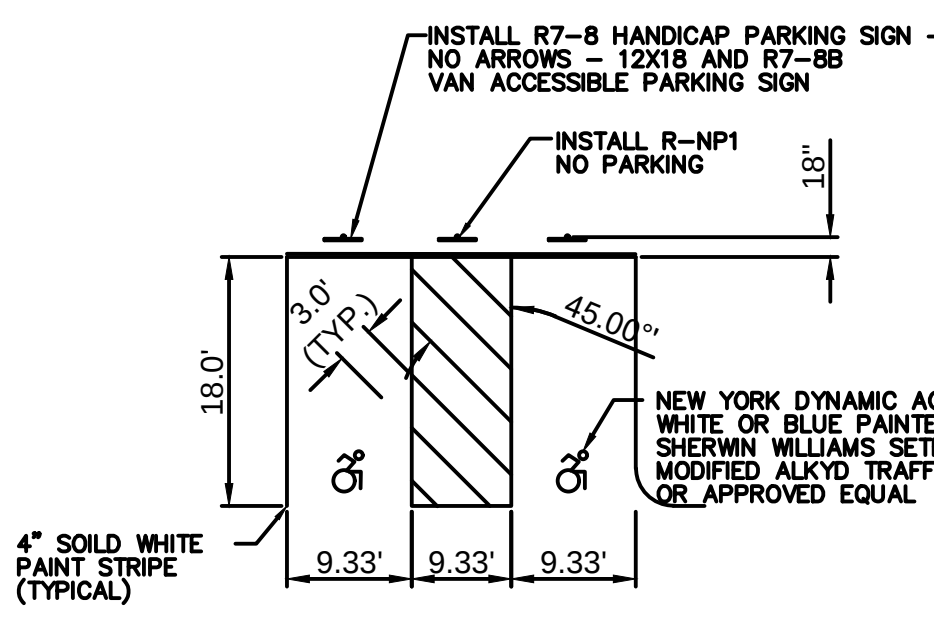
2 TYPICAL SIGNS
27-G-1305-D-12 N.T.S.



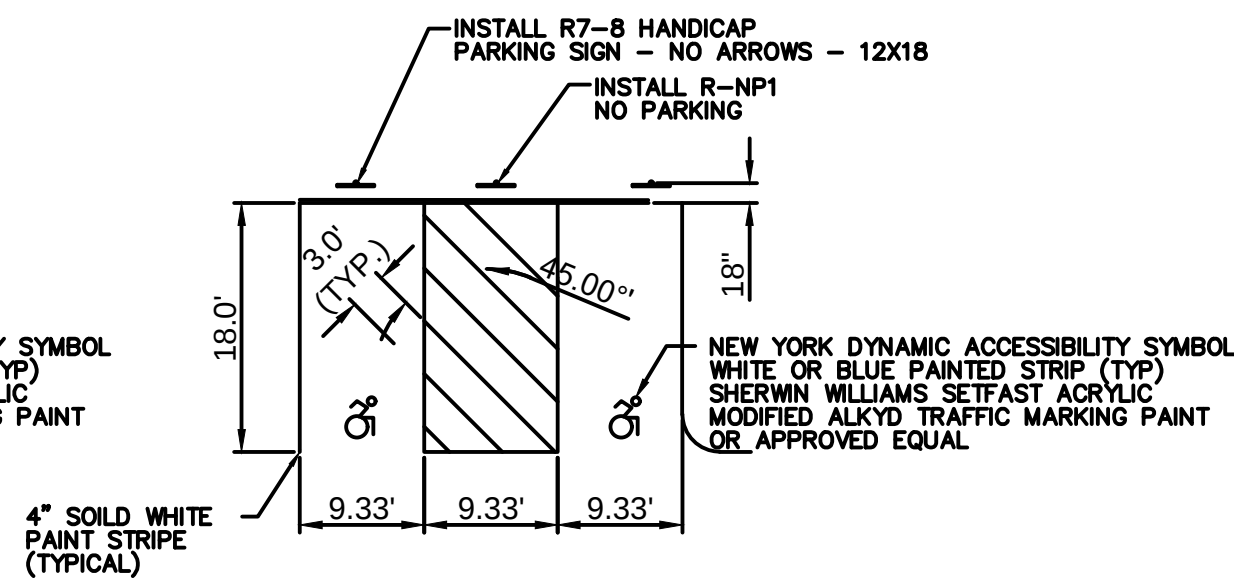
5 TYPICAL SIGNS POSITIONING
27-G-1305-D-12 N.T.S.



6 TYPICAL PARKING SPACE STRIPING
27-G-1305-D-12 N.T.S.



7 VAN ACCESSIBLE PARKING
27-G-1305-D-12 N.T.S.



8 ACCESSIBLE PARKING
27-G-1305-D-12 N.T.S.

NOTES:

1. DRIVE ANCHOR POST ASSEMBLY TO WITHIN APPROXIMATELY 12 INCHES ABOVE GROUND LEVEL. PLACE BOLT AND WASHER IN FIRST AND FIFTH HOLES FROM THE TOP END, AND SECURE BOLTS ONTO SPACER.
2. DRIVE ANCHOR POST ASSEMBLY TO WITHIN A MAXIMUM OF 6 INCHES ABOVE GROUND LEVEL.
3. DIG OUT AROUND BACK OF ANCHOR POST ASSEMBLY TO ALLOW ROOM FOR TOP POST TO BE ATTACHED.
4. NEST TOP POST ASSEMBLY ONTO PROTRUDING ANCHOR POST ASSEMBLY BOLTS, THROUGH THE FIRST AND FIFTH HOLES FROM THE BOTTOM OF THE TOP POST.
5. PLACE AND TIGHTEN A SELF-LOCKING FLANGE NUT ON EACH BOLT. WHEN INSTALLATION IS COMPLETE, TOP OF GROUND POST SHALL NOT EXCEED 8 INCHES ABOVE GROUND LEVEL.
6. SIZE OF CONNECTOR BOLT FOR TYPE 1, 5/8" x 1" SIZE OF CONNECTOR BOLT FOR TYPE 2, 5/8" x 2".
7. THE CONNECTOR BOLTS SHALL BE FULLY THREADED. EACH CONNECTOR BOLT AND NUT SHALL BE CLEARLY STAMPED WITH MANUFACTURER'S IDENTIFYING MARK.

GENERAL NOTES:

1. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND AS INDICATED BELOW.
2. ALL SIGN SUPPORTS SHALL BE OF THE BREAKAWAY TYPE WITH EXCEPTION OF THOSE INSTALLED BEHIND GUIDE RAIL OR OTHER ROADSIDE BARRIER.
3. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT, AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING SHALL BE IN CONFORMANCE WITH CURRENT ASTM A123.
4. ALL STEEL U-POST SIGN SUPPORTS MUST BE INSTALLED FACING THE PREDOMINANT TRAFFIC FLOW. A MOUNTING BRACKET SHOULD BE USED ON SIDE MOUNTED SIGNS SUCH AS "ONE WAY" SIGNS INSTALLED IN MEDIANS.
5. SIGN PANEL SIZES SHALL DETERMINE POST TYPE AND NUMBER AS SHOWN ON THIS DETAIL.
6. BOLTS SHALL NOT PROTRUDE MORE THAN 1/4" BEYOND THE NUT WHEN TIGHT, BUT SHALL ENGAGE ALL THREADS IN THE NUT.
7. WHEN SIGNS ARE INSTALLED ON SLOPES 10H:1V OR FLATTER, THE MINIMUM VERTICAL CLEARANCE REQUIREMENTS FOR SIGNS ARE 5".
FOR SINGLE POST INSTALLATIONS - THE MINIMUM DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND THE BOTTOM OF ANY PANEL MUST BE 7 FEET, AND THE MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO THE TOP OF ANY SIGN PANEL MUST BE 9 FEET.
FOR MULTI-POST INSTALLATIONS - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A MAJOR SIGN PANEL MUST BE 7 FEET.
SECONDARY SIGN PANELS (LAND SERVICE HIGHWAYS) - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A SECONDARY SIGN PANEL IS 6 FEET.
8. EXTRUDED ALUMINUM SIGN PANELS ARE NOT PERMITTED FOR USE WITH STEEL U-POST SIGN SUPPORTS.
9. STEEL U-POST SIGN SUPPORTS SHALL NOT BE PLACED IN FRONT OF GUIDE RAIL AND THE POSTS MUST NOT STRADDLE GUIDE RAIL.

Rev #	Date:	Description	Drawn By:	Rev #	Date:	Description	Drawn By:
A	19 Jun 2019	Issued for Permit	JR				
B	15 Jul 2019	ISSUED FOR PERMIT					

CONFIDENTIAL

THIS DRAWING IS THE PROPERTY OF REGENERON PHARMACEUTICALS, INC. THE INFORMATION CONTAINED HEREIN MAY NOT BE USED OR COPIED IN ANY MANNER WITHOUT THE PRIOR WRITTEN PERMISSION FROM REGENERON PHARMACEUTICALS, INC.

REGENERON

Regeneron Pharmaceuticals, Inc.
81 Columbia Turnpike
Rensselaer, NY 12144

Scale: AS NOTED

Bldg.:

SITE SIGNAGE DETAILS

File No.: 27-G-1305-D-12.DWG

Date: 31/1/2019

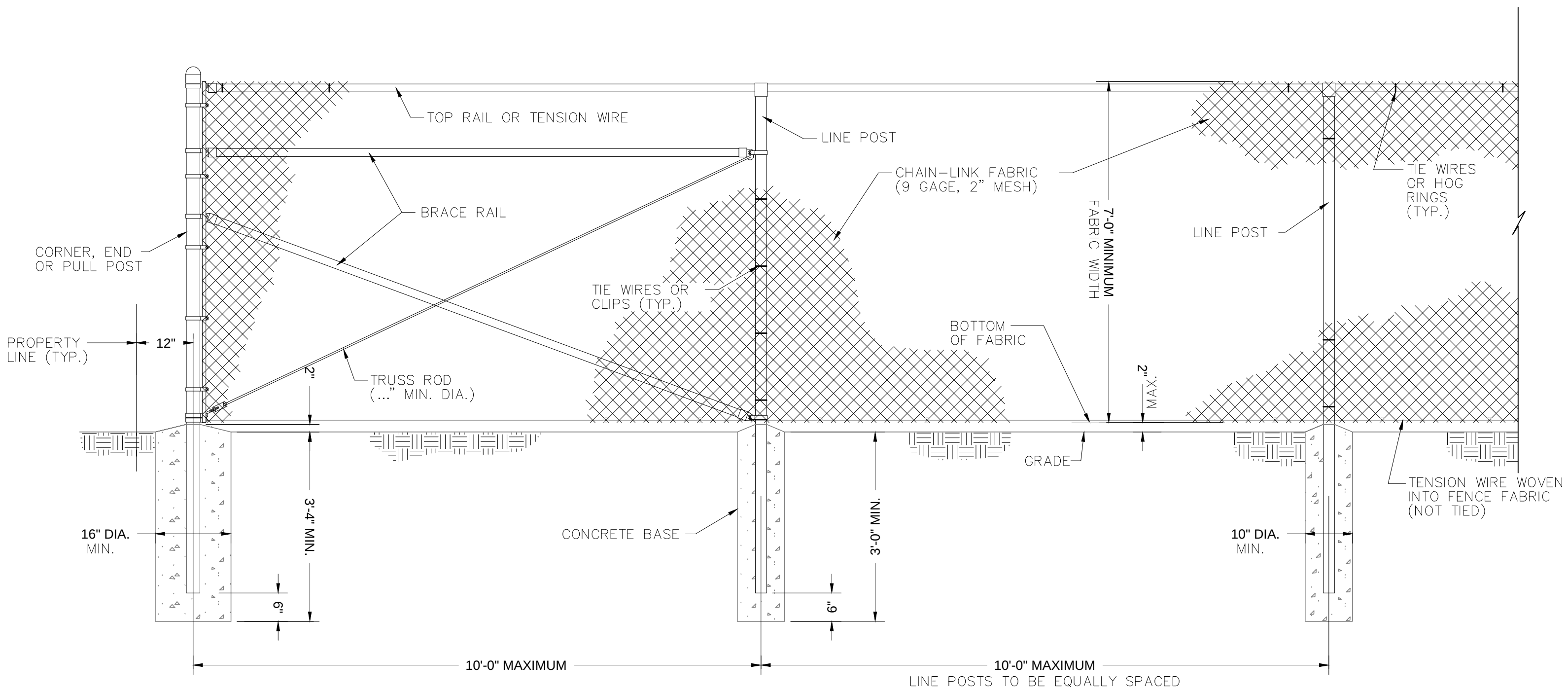
Drawing No.

27-G-1305-D-12

Old Drawing No.

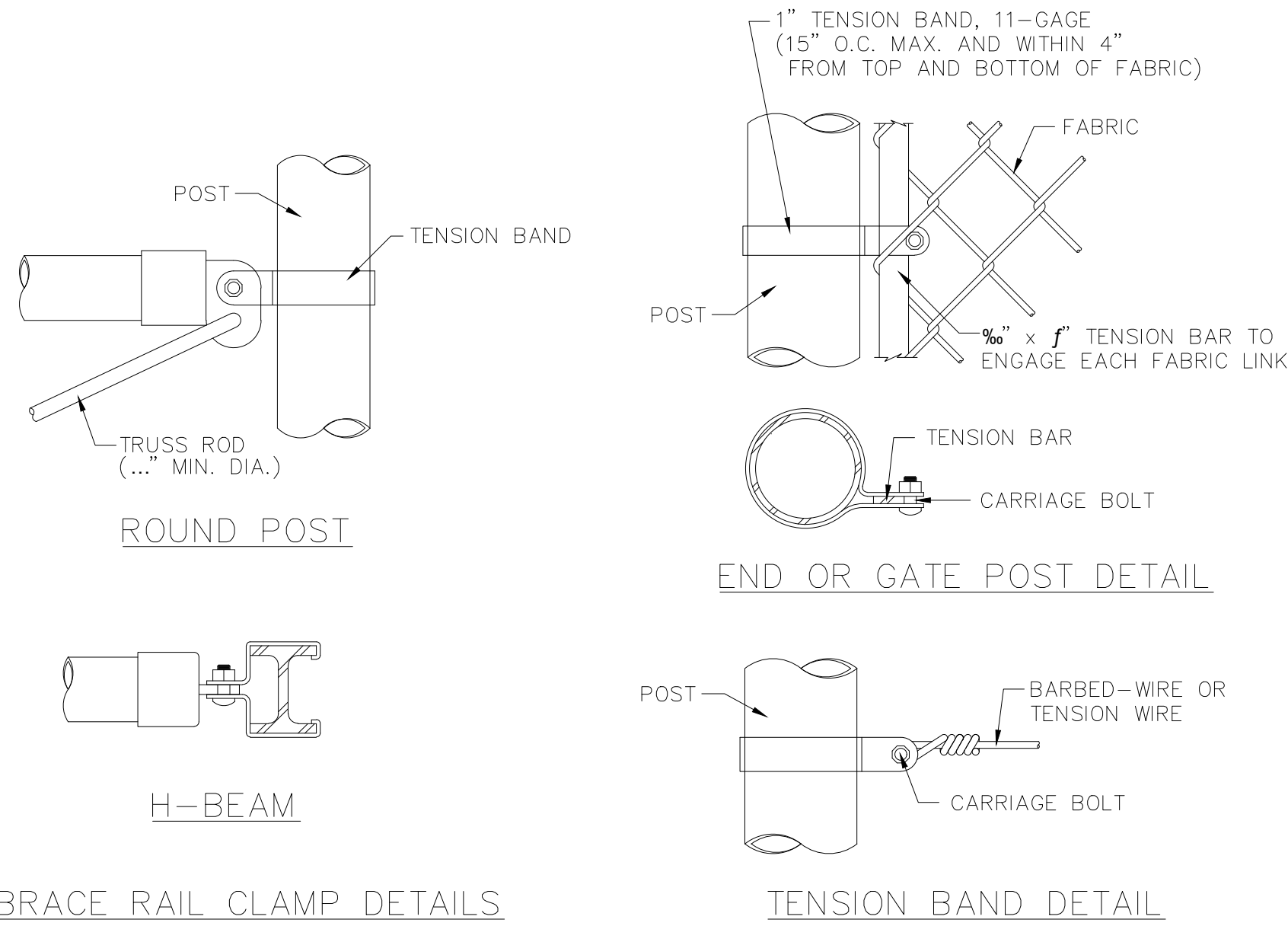
Revision: B

Sheet:

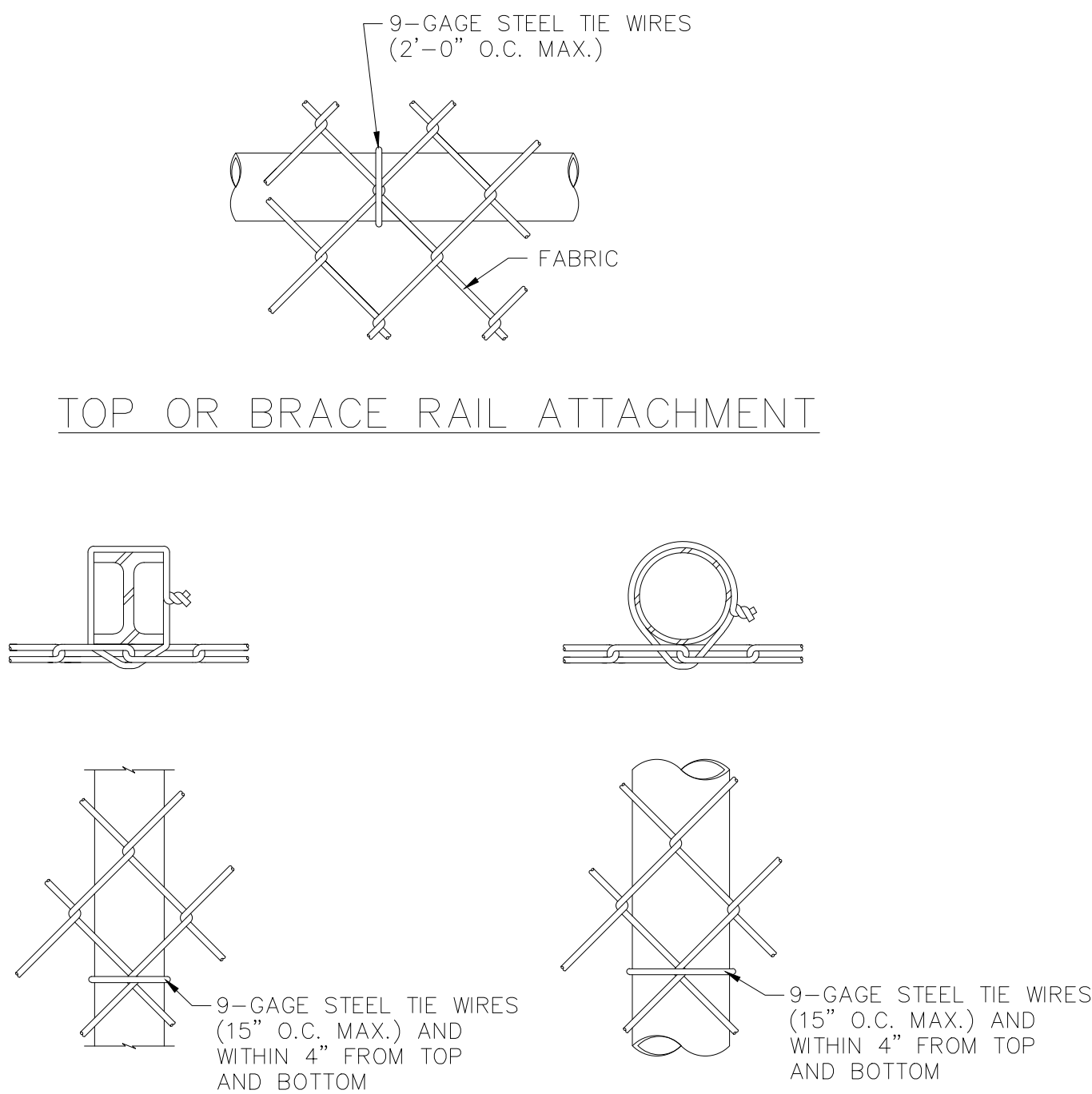


CHAIN-LINK SECURITY FENCE DETAIL
NOT TO SCALE

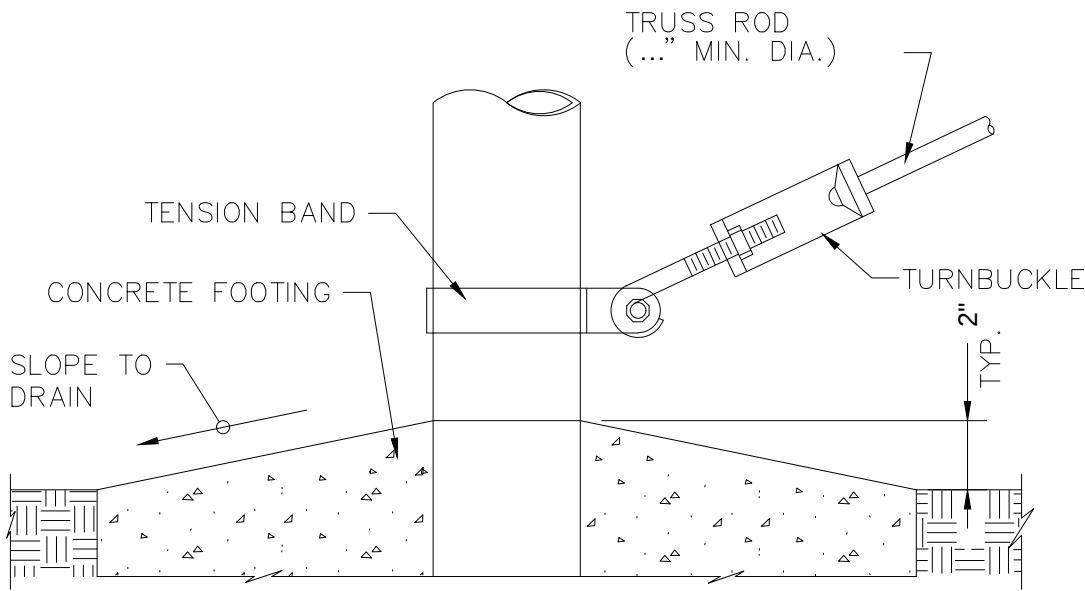
STEEL POST SCHEDULE			
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC 72" OR LESS	FABRIC 72" TO 96"	FABRIC OVER 96"
CORNER, END & PULL POSTS			
TUBULAR – ROUND	2.0" O.D.	2.5" O.D.	4.0" O.D.
TUBULAR – SQUARE	2.5" SQ.	3.0" SQ.	3.0" SQ.
C-SECTION (ROLL-FORMED)	3.5" x 3.5"	3.5" x 3.5"	_____
LINE POSTS			
TUBULAR – ROUND	2.0" O.D.	2.0" O.D.	3.0" O.D.
H-SECTION	1.875" x 1.625"	2.25" x 1.70"	2.25" x 1.70"
C-SECTION (ROLL-FORMED)	1.875" x 1.625"	2.25" x 1.70"	_____
TOP, BOTTOM & BRACE RAILS			
TUBULAR – ROUND	1.25" O.D.		
TUBULAR – SQUARE	1.50" O.D.		
H-SECTION	1.625" x 1.50"		
C-SECTION (ROLL-FORMED)	1.625" x 1.25"		



FASTENING DETAILS
NOT TO SCALE



LINE POST ATTACHMENTS
NOT TO SCALE



TRUSS ROD AND BAND
NOT TO SCALE

1 TYPICAL FENCE
27-G-1305-D-13 N.T.S.

Planning Board-Town of East Greenbush
BY DIRECTION OF
CHAIRMAN OF THE PLANNING
BOARD THESE PLANS ARE APPROVED
SEE FIRST SHEET FOR DATE & SIGNATURE

Rev #	Date:	Description	Drawn By:	Rev #	Date:	Description	Drawn By:
A	19 Jun 2019	Issued for Permit	JR				
B	15 Jul 2019	ISSUED FOR PERMIT					

CONFIDENTIAL

THIS DRAWING IS THE PROPERTY OF
REGENERON PHARMACEUTICALS, INC. THE
INFORMATION CONTAINED HEREIN MAY NOT
BE USED OR COPIED IN ANY MANNER
WITHOUT THE PRIOR WRITTEN PERMISSION
FROM REGENERON PHARMACEUTICALS, INC.

REGENERON

Regeneron Pharmaceuticals, Inc.
81 Columbia Turnpike
Rensselaer, NY 12144

Scale: AS NOTED

Bldg.:

SITE DETAILS

File No.: 27-G-1305-D-13.DWG

Date: 25/10/2018

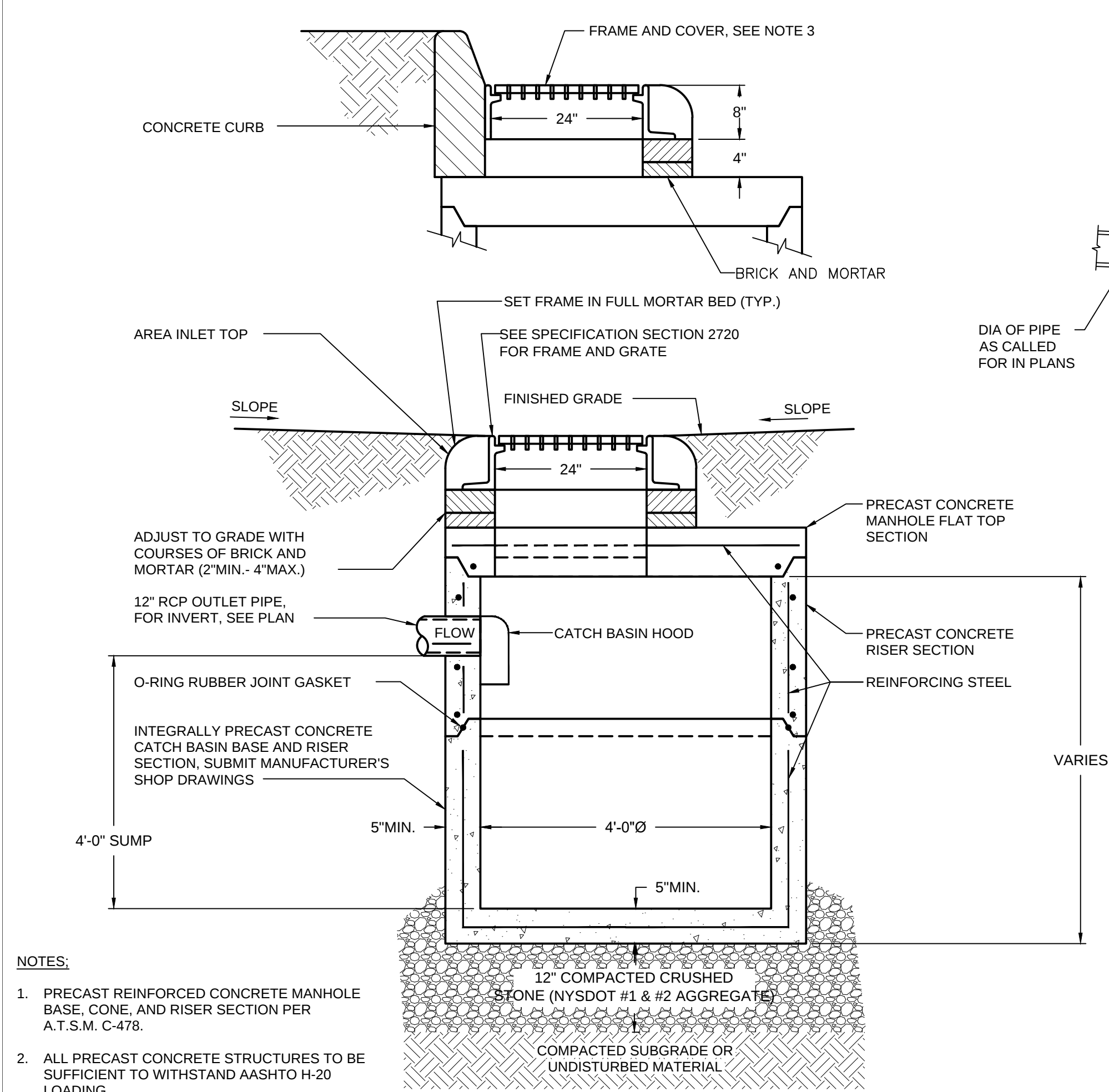
Drawing No.

27-G-1305-D-13

Old Drawing No.

Revision: B

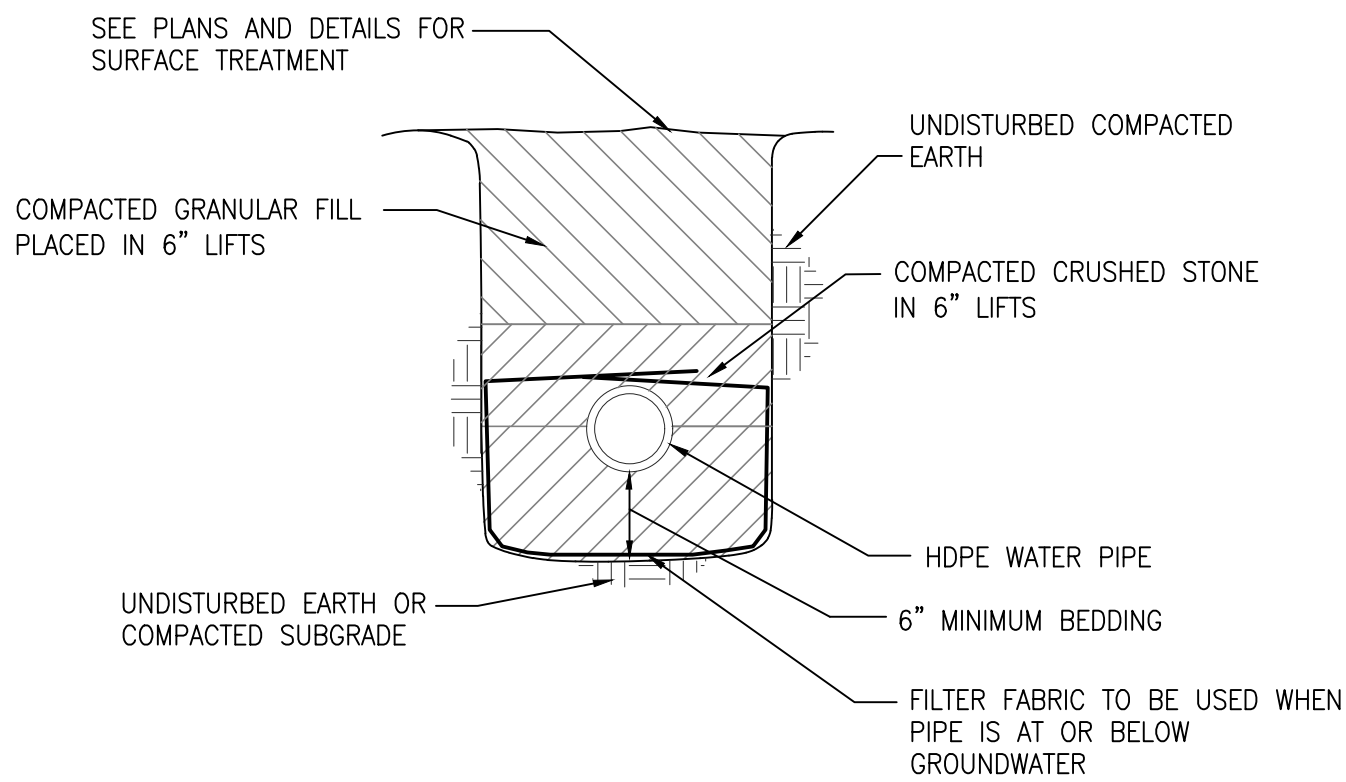
Sheet:



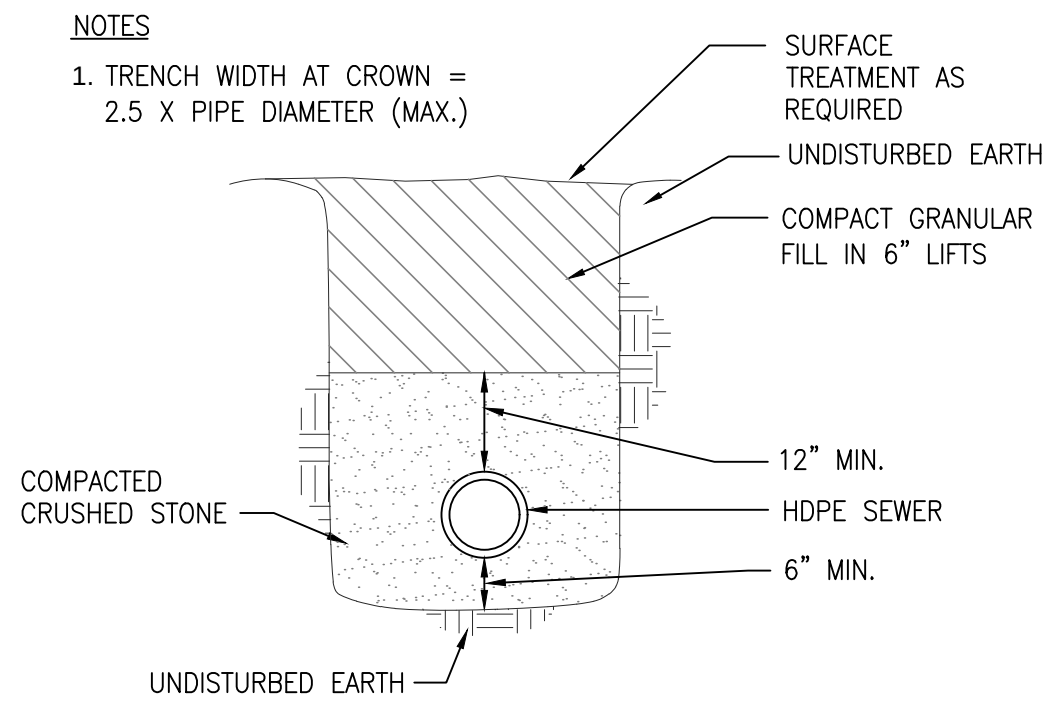
NOTES:

1. PRECAST REINFORCED CONCRETE MANHOLE BASE, CONE, AND RISER SECTION PER A.T.S.M. C-478.
2. ALL PRECAST CONCRETE STRUCTURES TO BE SUFFICIENT TO WITHSTAND AASHTO H-20 LOADING
3. GENERAL FOUNDRY HEAVY DUTY SQUARE HOLE GRATE 22464SQH OR APPROVED EQUAL

1 CATCH BASIN
27-G-1501-D-20 / N.T.S.

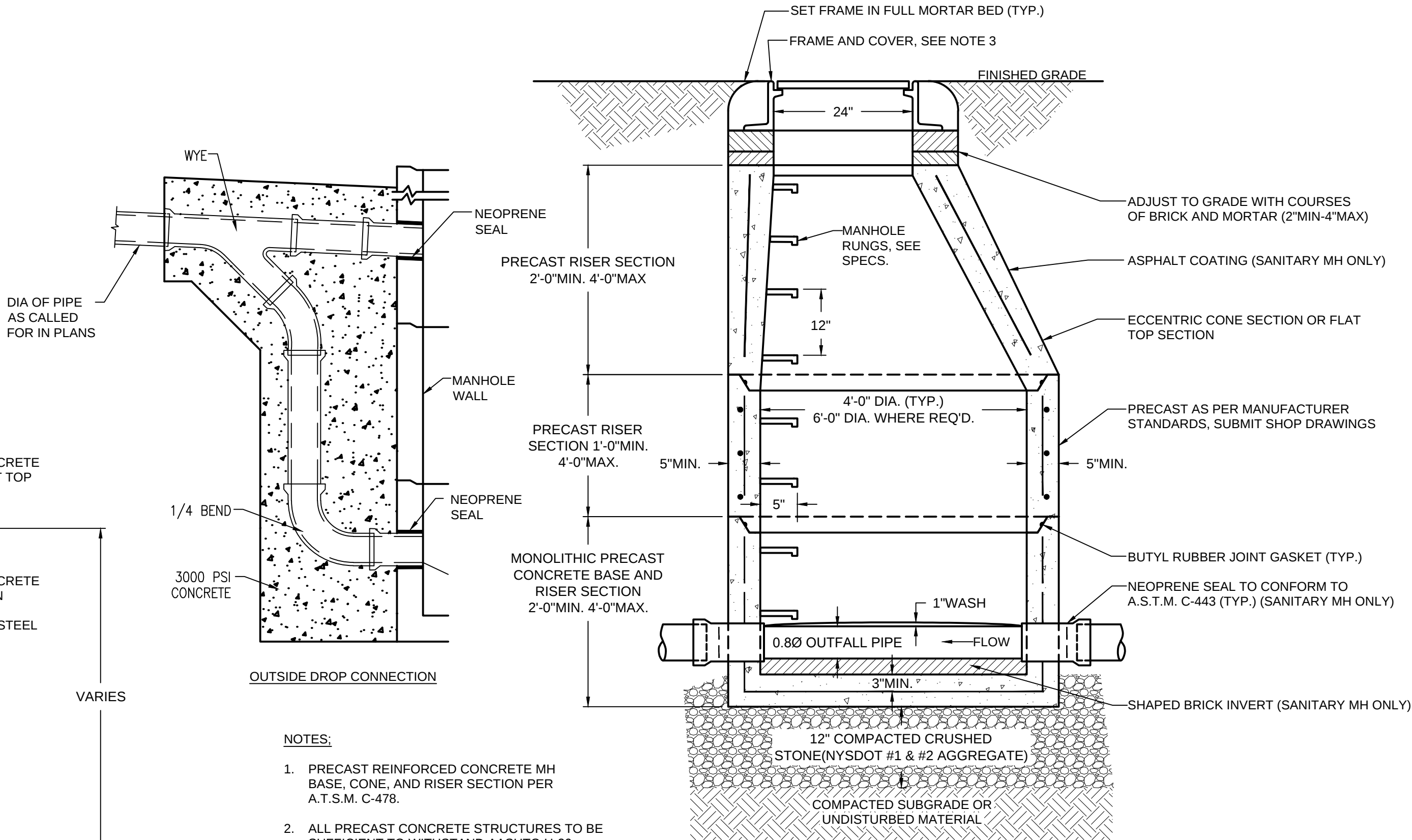


4 TYPICAL WATER MAIN TRENCH DETAIL
27-G-1501-D-20 / N.T.S.



5 SEWER PIPE TRENCH DETAIL
27-G-1501-D-20 / N.T.S.

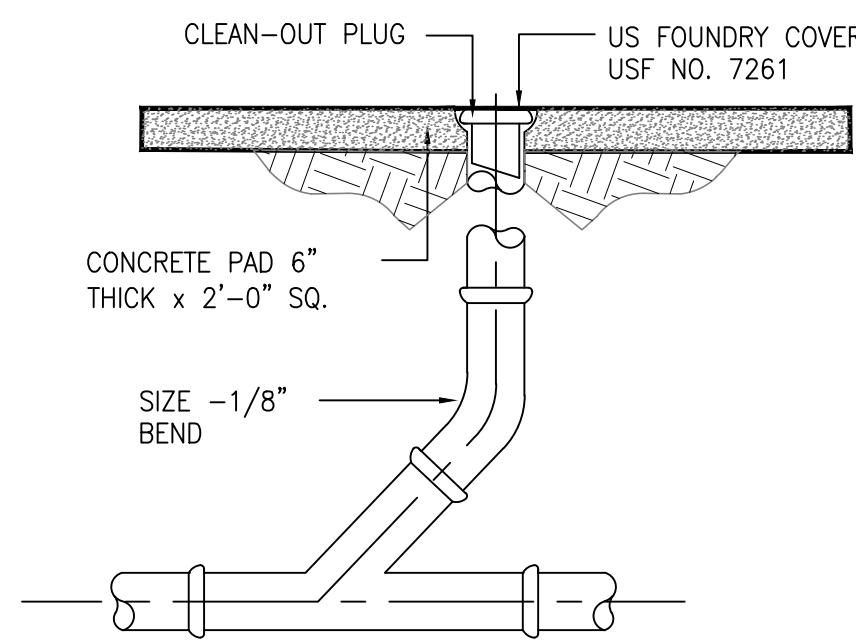
- NOTES:
1. TRENCH EXCAVATION WIDTH TO ALLOW FOR FREE TRAVEL OF COMPACTION EQUIPMENT. MINIMUM TRENCH WIDTH=2.5 X PIPE DIAMETER
 2. DELETED
 3. SEE SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS
 4. AVOID HEAVY EQUIPMENT LOADS OVER PIPE DURING CONSTRUCTION



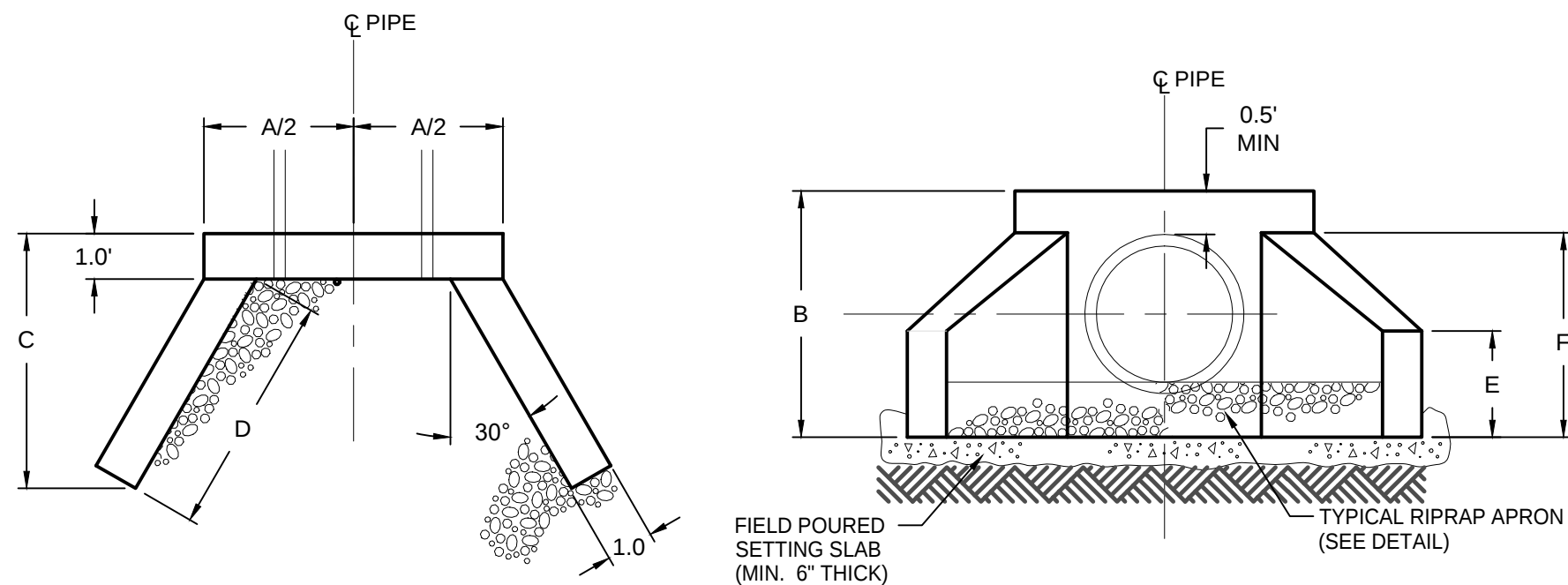
NOTES:

1. PRECAST REINFORCED CONCRETE MH BASE, CONE, AND RISER SECTION PER A.T.S.M. C-478.
2. ALL PRECAST CONCRETE STRUCTURES TO BE SUFFICIENT TO WITHSTAND AASHTO H-20 LOADING
3. GENERAL FOUNDRY HEAVY DUTY SOLID COVER 12661 OR APPROVED EQUAL
4. COVER TO READ "DRAIN" FOR DRAINAGE MANHOLES AND "SEWER" FOR SANITARY MANHOLES.

2 PRECAST MANHOLE
27-G-1501-D-20 / N.T.S.



6 CLEANOUT DETAIL
27-G-1501-D-20 / N.T.S.



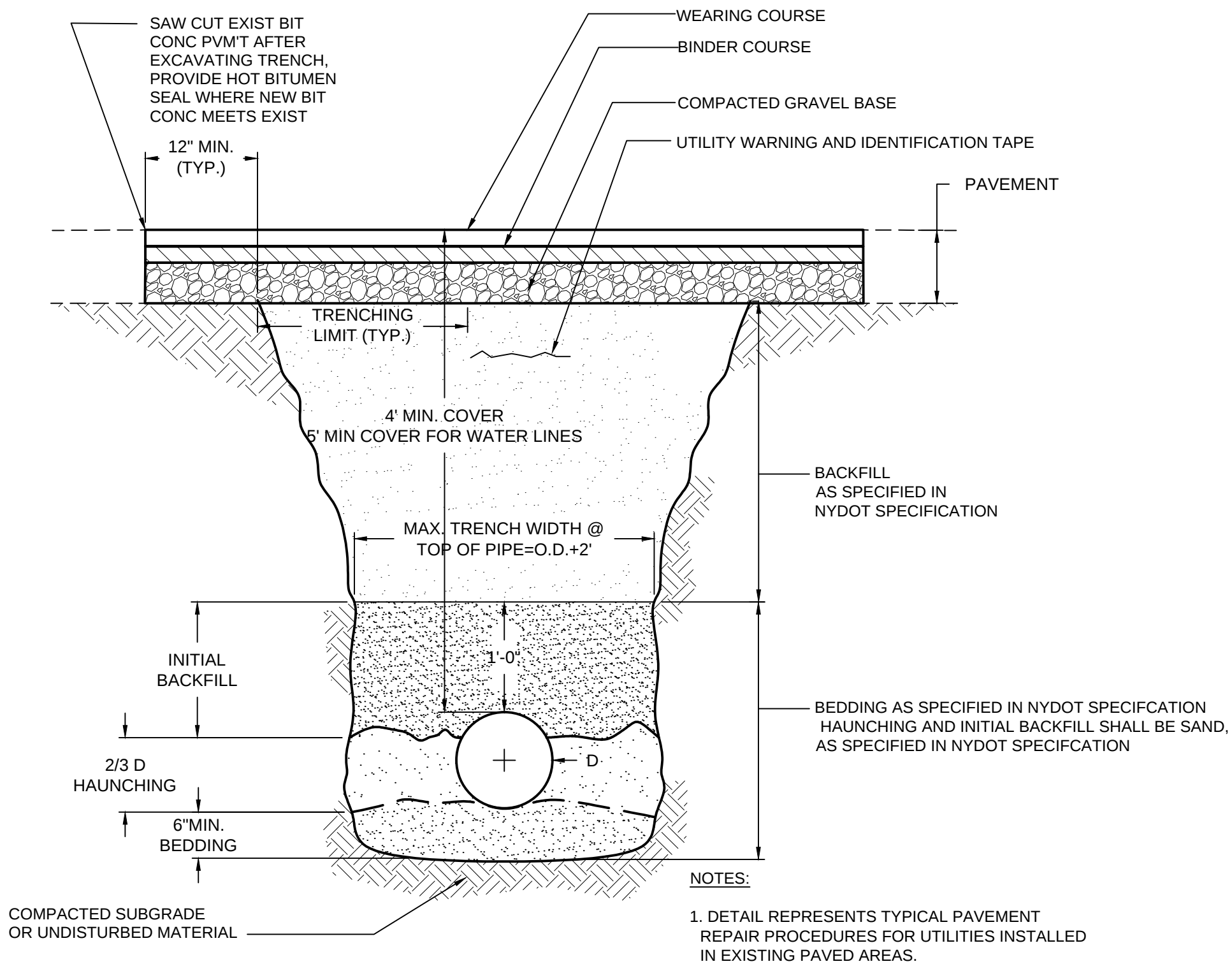
3 PRECAST HEADWALL DETAIL
27-G-1501-D-20 / N.T.S.

SCHEDULE							
TYPE	PIPE ID	A	B	C	D	E	F
I	12" - 15"	56"	39"	44"	36"	12"	24"
II	18" - 21"	64"	48"	48"	39"	12"	24"
III	24" - 27"	68"	52"	48"	42"	18"	36"
IV	30" - 36"	79"	72"	67"	63"	24"	48"
V	42"	88"	78"	67"	63"	24"	48"

NOTES:

1. CONCRETE IS DESIGNED TO OBTAIN A STRENGTH OF 4,000 PSI AT 28 DAY.
2. REINFORCING STEEL HAS A YIELD STRENGTH 60,000 PSI.
3. ALL EXPOSED EDGES OF HEADWALLS SHALL HAVE A 1" x 1" CHAMFERED EDGE.

3 PRECAST HEADWALL DETAIL
27-G-1501-D-20 / N.T.S.



7 UTILITY TRENCH DETAIL
27-G-1501-D-20 / N.T.S.

Planning Board-Town of East Greenbush
BY DIRECTION OF
CHAIRMAN OF THE PLANNING
BOARD THESE PLANS ARE APPROVED
SEE FIRST SHEET FOR DATE & SIGNATURE

Rev #	Date:	Description	Drawn By:	Rev #	Date:	Description	Drawn By:
A	19 Jun 2019	Issued for Permit	JR				
B	15 Jul 2019	ISSUED FOR PERMIT					

CONFIDENTIAL

THIS DRAWING IS THE PROPERTY OF
REGENERON PHARMACEUTICALS, INC. THE
INFORMATION CONTAINED HEREIN MAY NOT
BE USED OR COPIED IN ANY MANNER
WITHOUT THE PRIOR WRITTEN PERMISSION
FROM REGENERON PHARMACEUTICALS, INC.

REGENERON

Regeneron Pharmaceuticals, Inc.
81 Columbia Turnpike
Rensselaer, NY 12144

Scale: AS NOTED

Bldg.:

File No.: 27-G-1501-D-20.DWG

Date: 25/10/2018

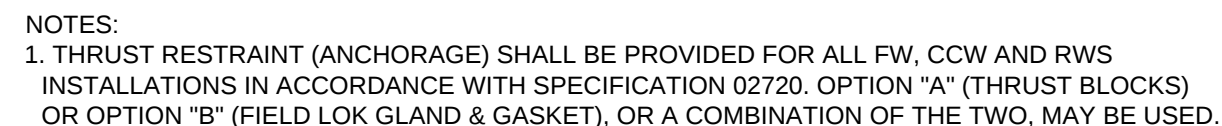
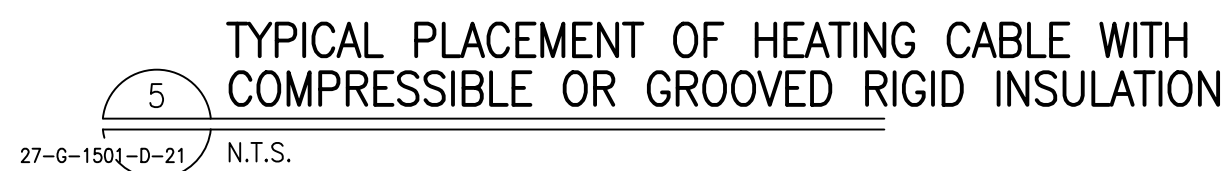
Drawing No.

27-G-1501-D-20

Old Drawing No.

Revision: B

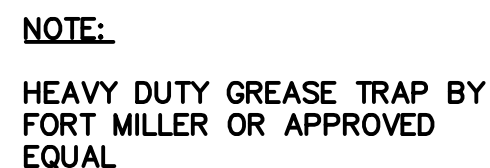
Sheet:



2. IF OPTION "B" IS SELECTED, ALL JOINTS WITHIN THE RESTRAINED LENGTH ("L") SHALL BE MECHANICAL JOINT WITH FIELD LOK GLAND & GASKET, AS SPECIFIED IN SPECIFICATION 02720. WHERE THE DISTANCE BETWEEN FITTINGS IS LESS THAN THE REQUIRED RESTRAINED LENGTH ("L"), ALL JOINTS BETWEEN THE FITTINGS SHALL BE RESTRAINED, AS WELL AS ALL JOINTS WITHIN THE REQUIRED RESTRAINED LENGTH ON THE STRAIGHT RUNS ON EITHER SIDE OF THE FITTINGS.

3. THRUST RESTRAINT AND ANCHORAGE DETAILS FOR PPS SYSTEMS (CHWR, CHWS, PSH, PCP, PCH) BY MANUFACTURER.

4. WHERE CONVENTIONAL THRUST BLOCKS ARE NOT FEASIBLE (I.E. PIPE NOT ADJACENT TO TRENCH WALLS), GRAVITY BLOCKS WITH ANCHOR STRAPS MAY BE SUBSTITUTED. SEE DETAIL 4 FOR DETAILS.

(FIRE PROTECTION / DOMESTIC WATER)(FIRE PROTECTION / DOMESTIC WATER)

- HEAVY DUTY PARABOLIC
MANHOLE COVER, SYRACUSE
CASTINGS 6530 WITH
#6530060ST WATERTIGHT INNER
COVER AND #6536LB LOCKBAR
LOCKBAR; REFER TO
"WATERTIGHT SANITARY SEWER
MANHOLE FRAME & COVER
DETAIL"



27-G-1501-D-21 7 2,000 GAL. OIL/GREASE SEPARATOR
N.T.S.

Planning Board—Town of East Greenbush
BY DIRECTION OF
CHAIRMAN OF THE PLANNING
BOARD THESE PLANS ARE APPROVED
SEE FIRST SHEET FOR DATE & SIGNATURE

CONFIDENTIAL

THIS DRAWING IS THE PROPERTY OF
REGENERON PHARMACEUTICALS, INC. THE
INFORMATION CONTAINED HEREIN MAY NOT
BE USED OR COPIED IN ANY MANNER
WITHOUT THE PRIOR WRITTEN PERMISSION
FROM REGENERON PHARMACEUTICALS, INC.

REGENERON

Regeneron Pharmaceuticals, Inc.
81 Columbia Turnpike
Rensselaer, NY 12144

Scale: AS NOTED

Bldg.:

File No.: **27-G-1501-D-21.DWG**

Date: 14/11/2018

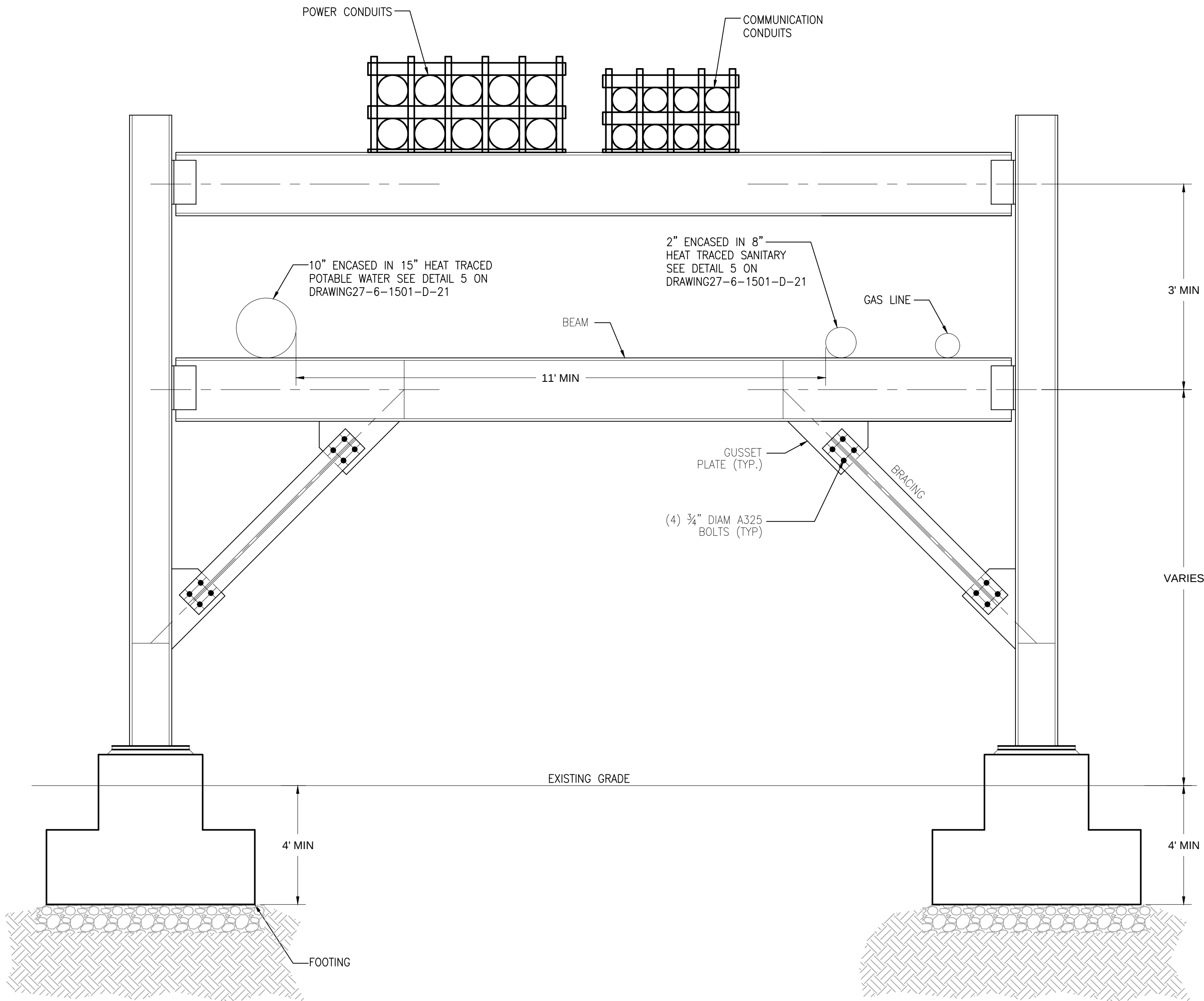
Drawing No.

27-G-1501-D-21

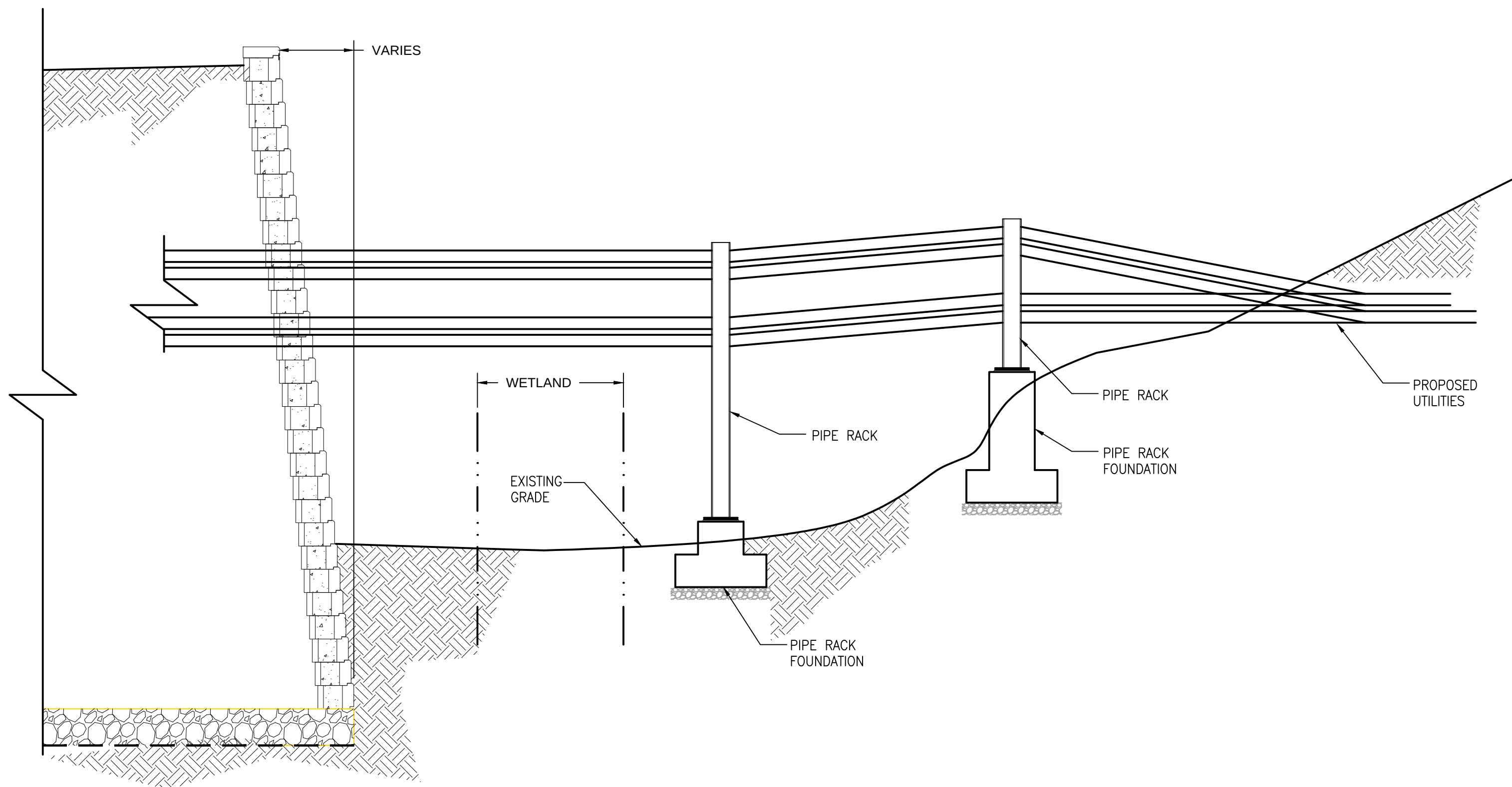
Old Drawing No.	
-----------------	--

Revision: **B**

Sheet:



1
TYPICAL SECTION
PIPE RACK / UTILITY CROSSINGS
27-G-1501-D-22 SCALE: N.T.S.



2
PIPE RACK / UTILITY CROSSINGS
27-G-1501-D-22 SCALE: N.T.S.

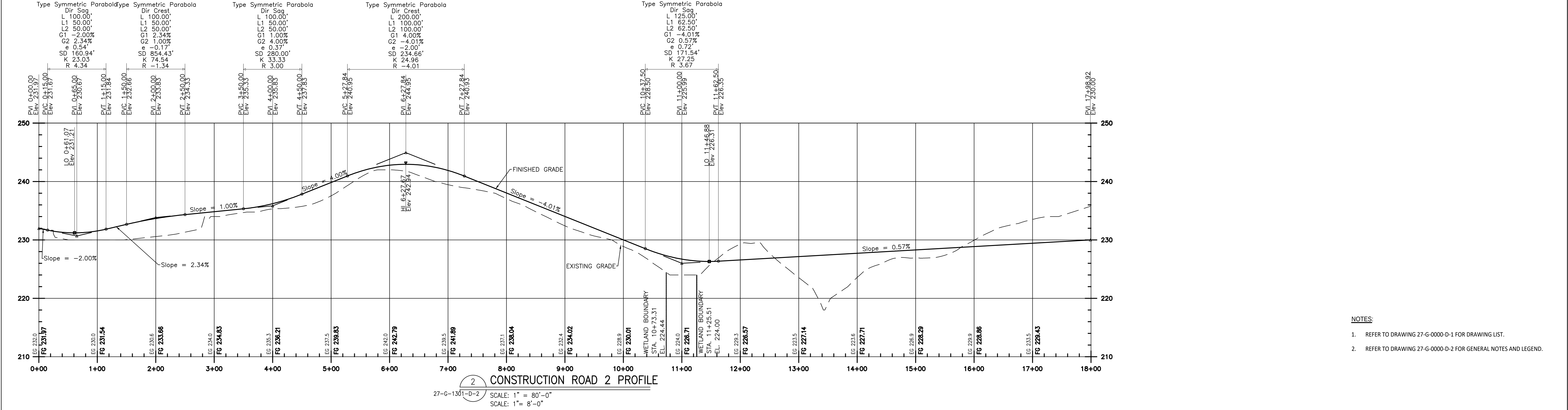
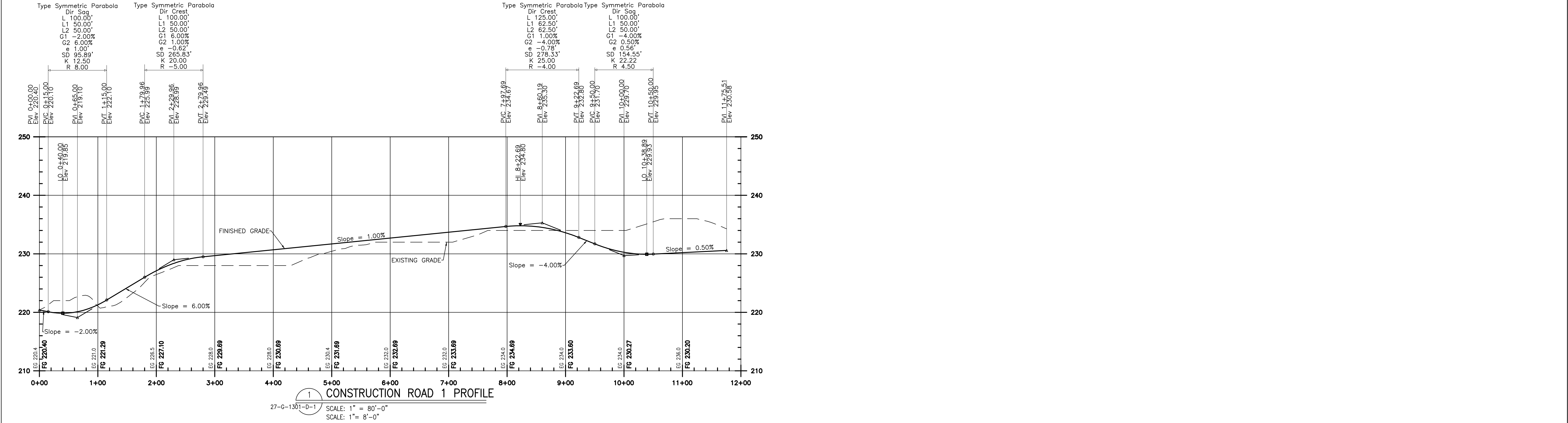
Planning Board-Town of East Greenbush
BY DIRECTION OF
CHAIRMAN OF THE PLANNING
BOARD THESE PLANS ARE APPROVED
SEE FIRST SHEET FOR DATE & SIGNATURE

Rev #	Date:	Description	Drawn By:	Rev #	Date:	Description	Drawn By:
A	19 Jun 2019	Issued for Permit	JR				
B	15 Jul 2019	ISSUED FOR PERMIT					

CONFIDENTIAL

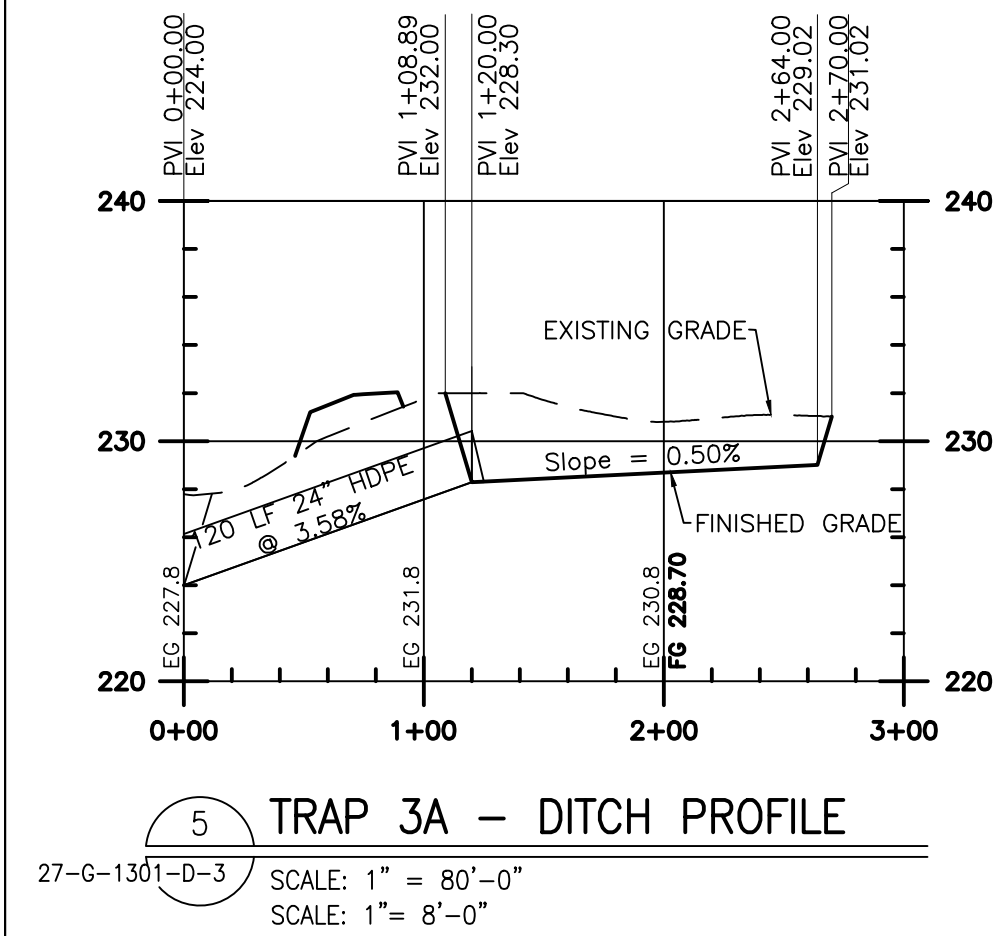
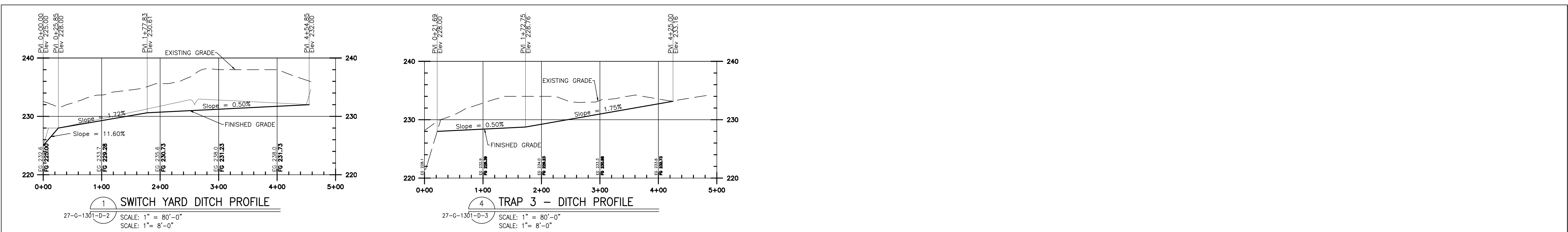
THIS DRAWING IS THE PROPERTY OF
REGENERON PHARMACEUTICALS, INC. THE
INFORMATION CONTAINED HEREIN MAY NOT
BE USED OR COPIED IN ANY MANNER
WITHOUT THE PRIOR WRITTEN PERMISSION
FROM REGENERON PHARMACEUTICALS, INC.

REGENERON		UTILITY DETAILS		Drawing No.	
Regeneron Pharmaceuticals, Inc. 81 Columbia Turnpike Rensselaer, NY 12144				27-G-1501-D-22	
Scale: AS NOTED		Bldg.:		Old Drawing No.	
File No.: 27-G-1501-D-22.DWG		Date: 14/11/2018		Revision: B	
				Sheet:	



- NOTES:
- REFER TO DRAWING 27-G-0000-D-1 FOR DRAWING LIST.
 - REFER TO DRAWING 27-G-0000-D-2 FOR GENERAL NOTES AND LEGEND.

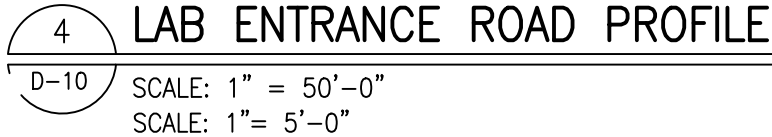
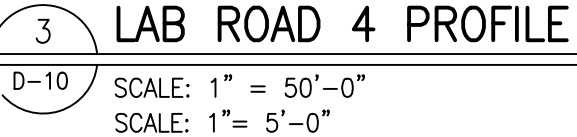
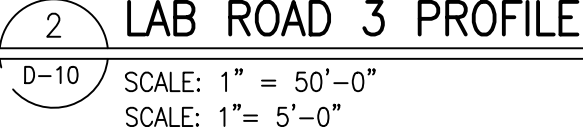
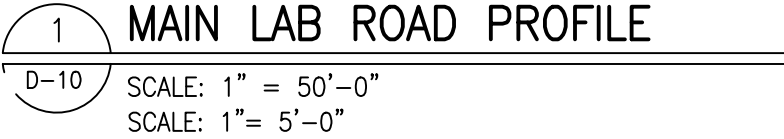
Rev #	Date:	Description	Drawn By:	Rev #	Date:	Description	Drawn By:	CONFIDENTIAL		REGENERON		SITE EARLY GRADING ROAD PROFILES		Drawing No. 27-G-1302-D-1	
A	17 Jan 2019	Issued for Permit	AJW												
B	27 Feb 2019	Issued for Permit	JR					THIS DRAWING IS THE PROPERTY OF REGENERON PHARMACEUTICALS, INC. THE INFORMATION CONTAINED HEREIN MAY NOT BE USED OR COPIED IN ANY MANNER WITHOUT THE PRIOR WRITTEN PERMISSION FROM REGENERON PHARMACEUTICALS, INC.		Regeneron Pharmaceuticals, Inc. 81 Columbia Turnpike Rensselaer, NY 12144		File No.: 27-G-1302-D-1.DWG		Date: 21/12/2018	
C	07 Mar 2019	Issued for Permit	JR												
D	19 Jun 2019	Issued for Permit	JR												
E	15 Jul 2019	ISSUED FOR PERMIT													
										Scale: AS NOTED		Bldg.:		Revision: E	
														Sheet:	



- NOTES:
- REFER TO DRAWING 27-G-0000-D-1 FOR DRAWING LIST.
 - REFER TO DRAWING 27-G-0000-D-2 FOR GENERAL NOTES AND LEGEND.

Planning Board—Town of East Greenbush
BY DIRECTION OF
CHAIRMAN OF THE PLANNING
BOARD THESE PLANS ARE APPROVED
SEE FIRST SHEET FOR DATE & SIGNATURE

Rev #	Date:	Description	Drawn By:	Rev #	Date:	Description	Drawn By:	CONFIDENTIAL THIS DRAWING IS THE PROPERTY OF REGENERON PHARMACEUTICALS, INC. THE INFORMATION CONTAINED HEREIN MAY NOT BE USED OR COPIED IN ANY MANNER WITHOUT THE PRIOR WRITTEN PERMISSION FROM REGENERON PHARMACEUTICALS, INC.	REGENERON Regeneron Pharmaceuticals, Inc. 81 Columbia Turnpike Rensselaer, NY 12144	SITE EARLY GRADING DITCH PROFILES			Drawing No.		
A	17 Jan 2019	Issued for Permit	AJW										27-G-1302-D-2		
B	27 Feb 2019	Issued for Permit	JR							Old Drawing No.					
C	07 Mar 2019	Issued for Permit	JR												
D	19 Jun 2019	Issued for Permit	JR												
E	15 Jul 2019	ISSUED FOR PERMIT													
										Scale: AS NOTED	Bldg.:	File No.: 27-G-1302-D-2.DWG	Date: 31/1/2019	Revision: E	Sheet:



CONFIDENTIAL

THIS DRAWING IS THE PROPERTY OF
REGENERON PHARMACEUTICALS, INC. THE
INFORMATION CONTAINED HEREIN MAY NOT
BE USED OR COPIED IN ANY MANNER
WITHOUT THE PRIOR WRITTEN PERMISSION
FROM REGENERON PHARMACEUTICALS, INC.

Regeneron Pharmaceuticals, Inc.
81 Columbia Turnpike
Rensselaer, NY 12144

Bldg.:

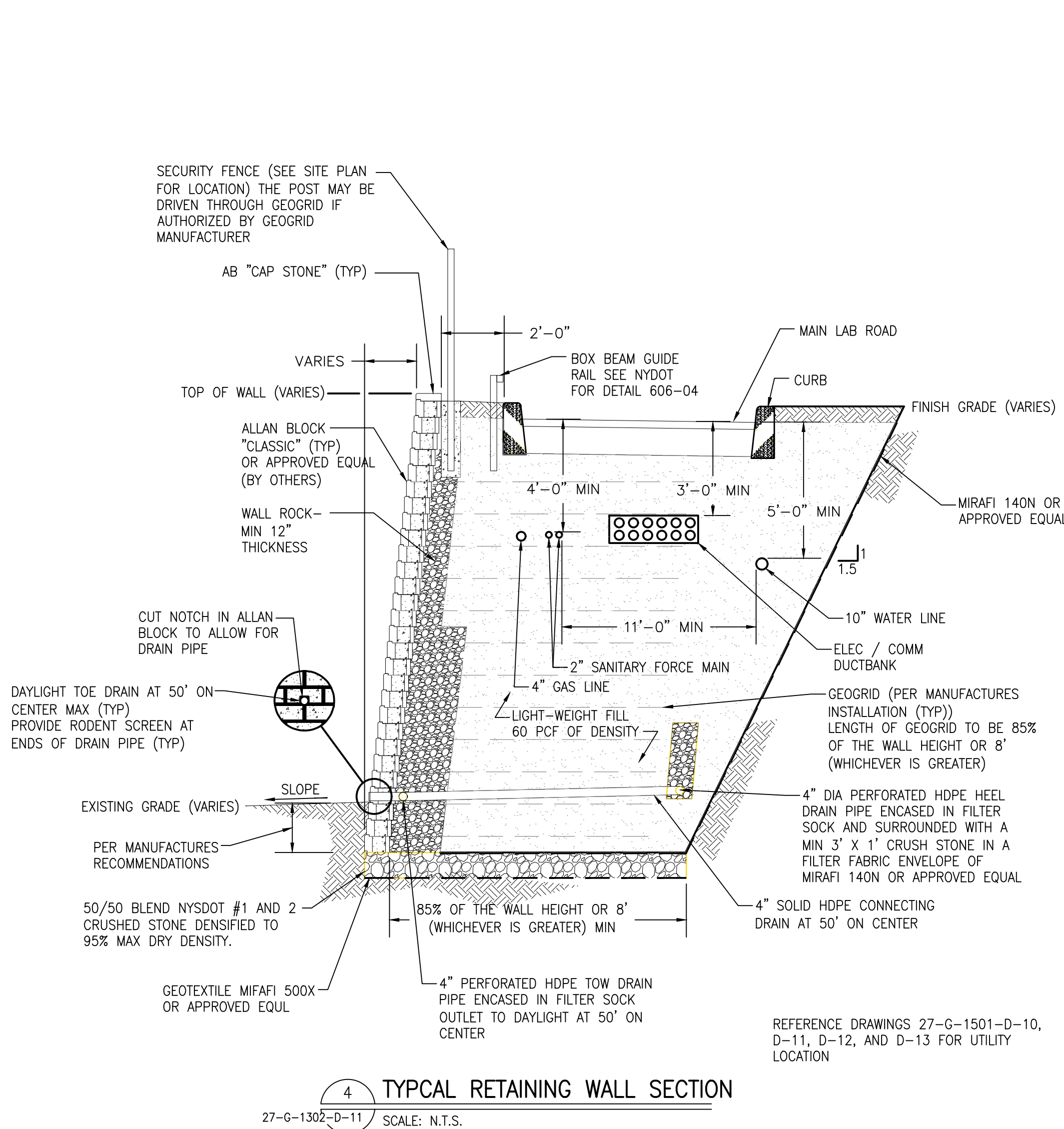
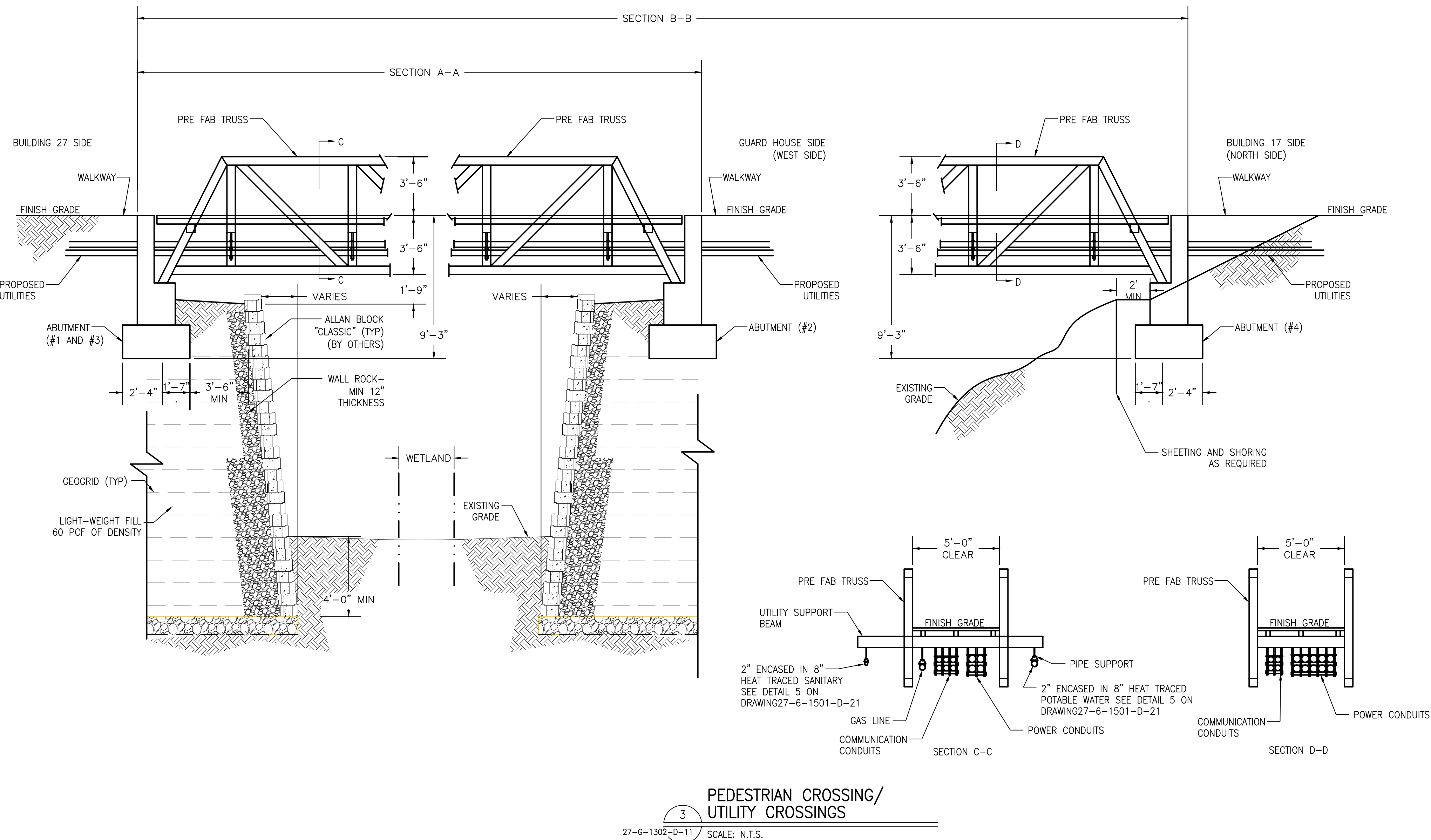
Date: 28/8/2018

Drawing No.

27-G-1302-D-10

Revision: **B**

Sheet:

[illegible]

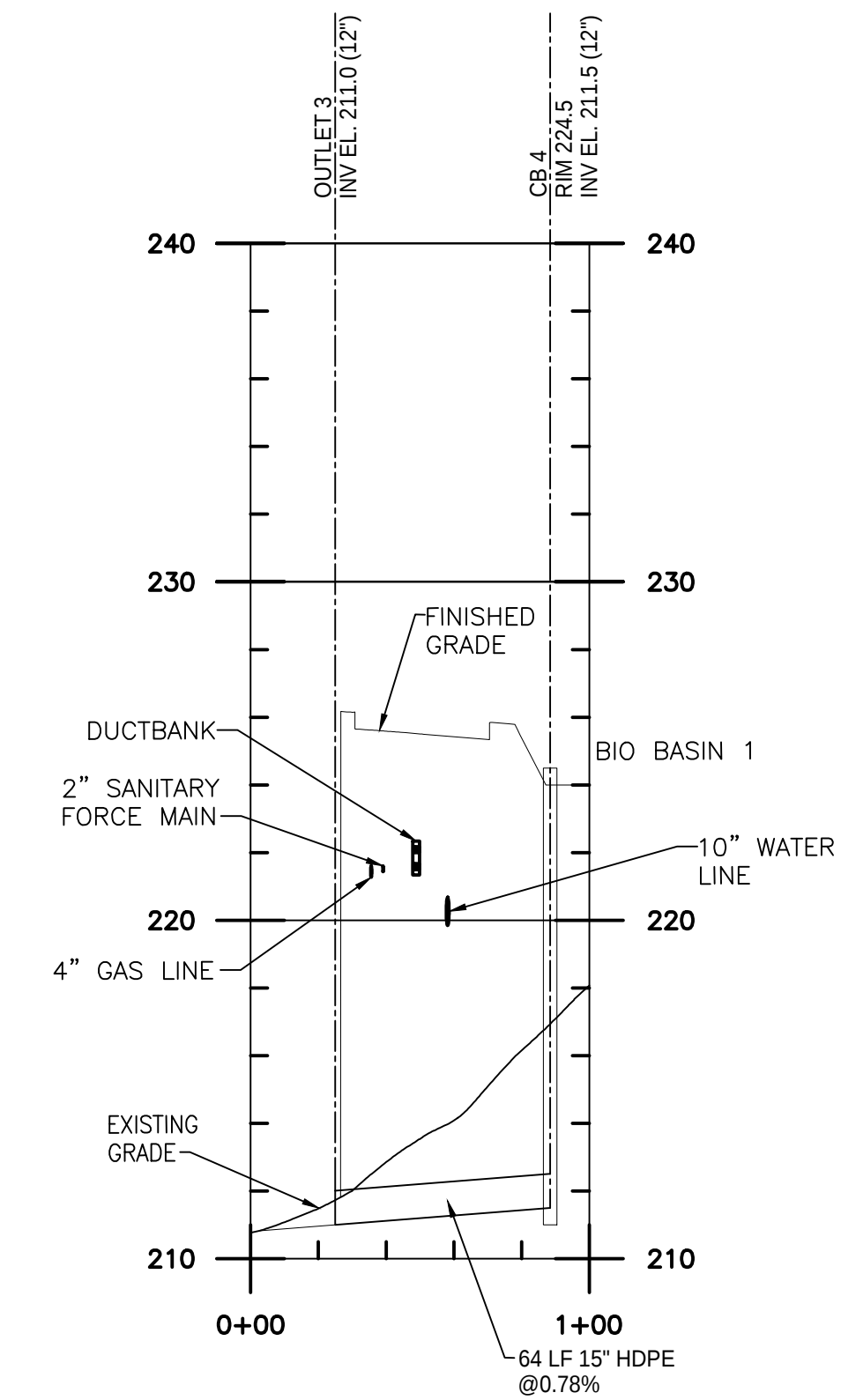
CONFIDENTIAL

THIS DRAWING IS THE PROPERTY OF
REGENERON PHARMACEUTICALS, INC. THE
INFORMATION CONTAINED HEREIN MAY NOT
BE USED OR COPIED IN ANY MANNER
WITHOUT THE PRIOR WRITTEN PERMISSION
FROM REGENERON PHARMACEUTICALS, INC.

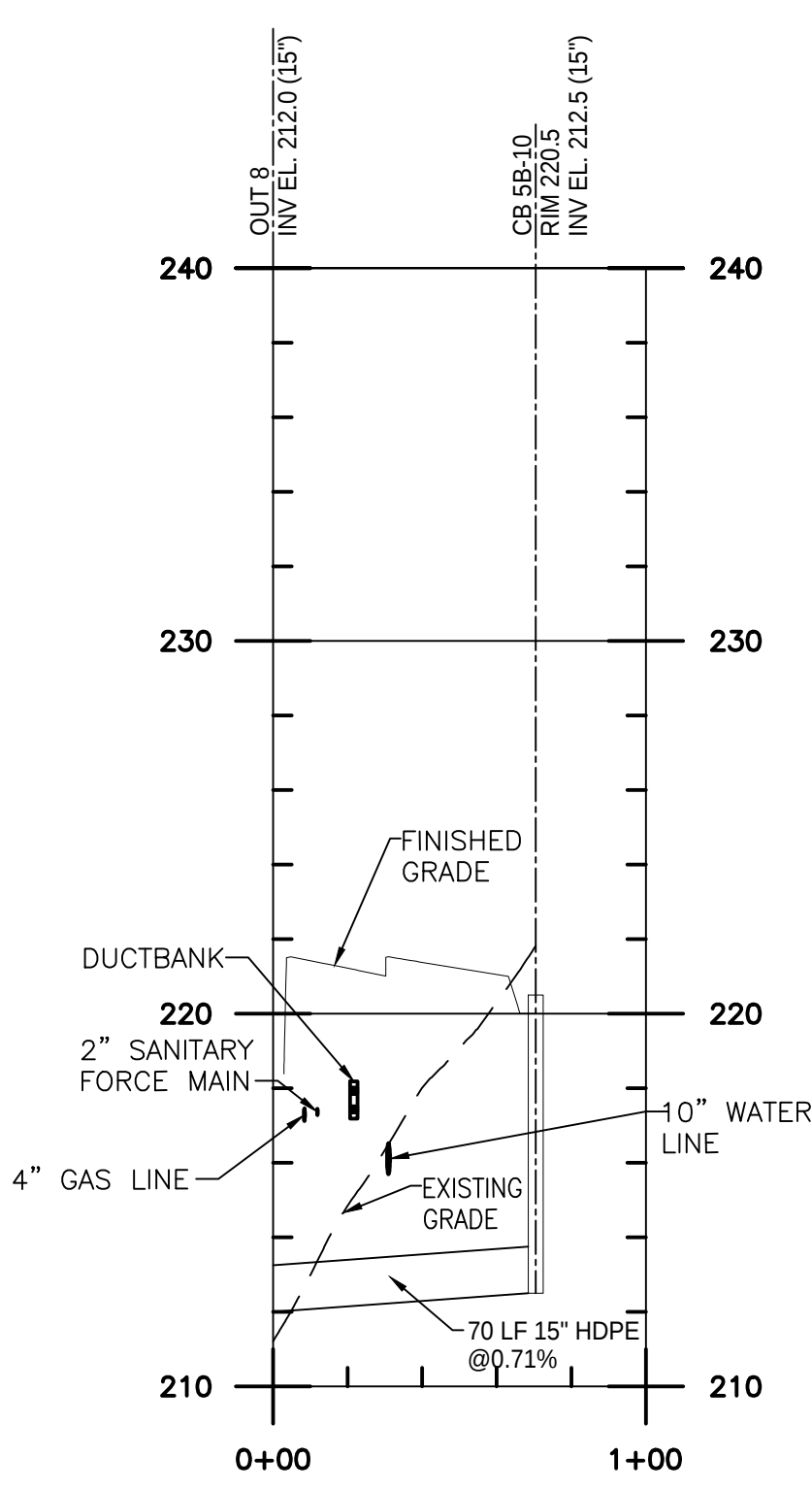
<i>REGENERON</i> Regeneron Pharmaceuticals, Inc. 81 Columbia Turnpike Rensselaer, NY 12144	
Scale: AS NOTED	Bltn :

File No : 27-G-1302-D-11 DWG	Date: 15/3/2019
-------------------------------------	-----------------

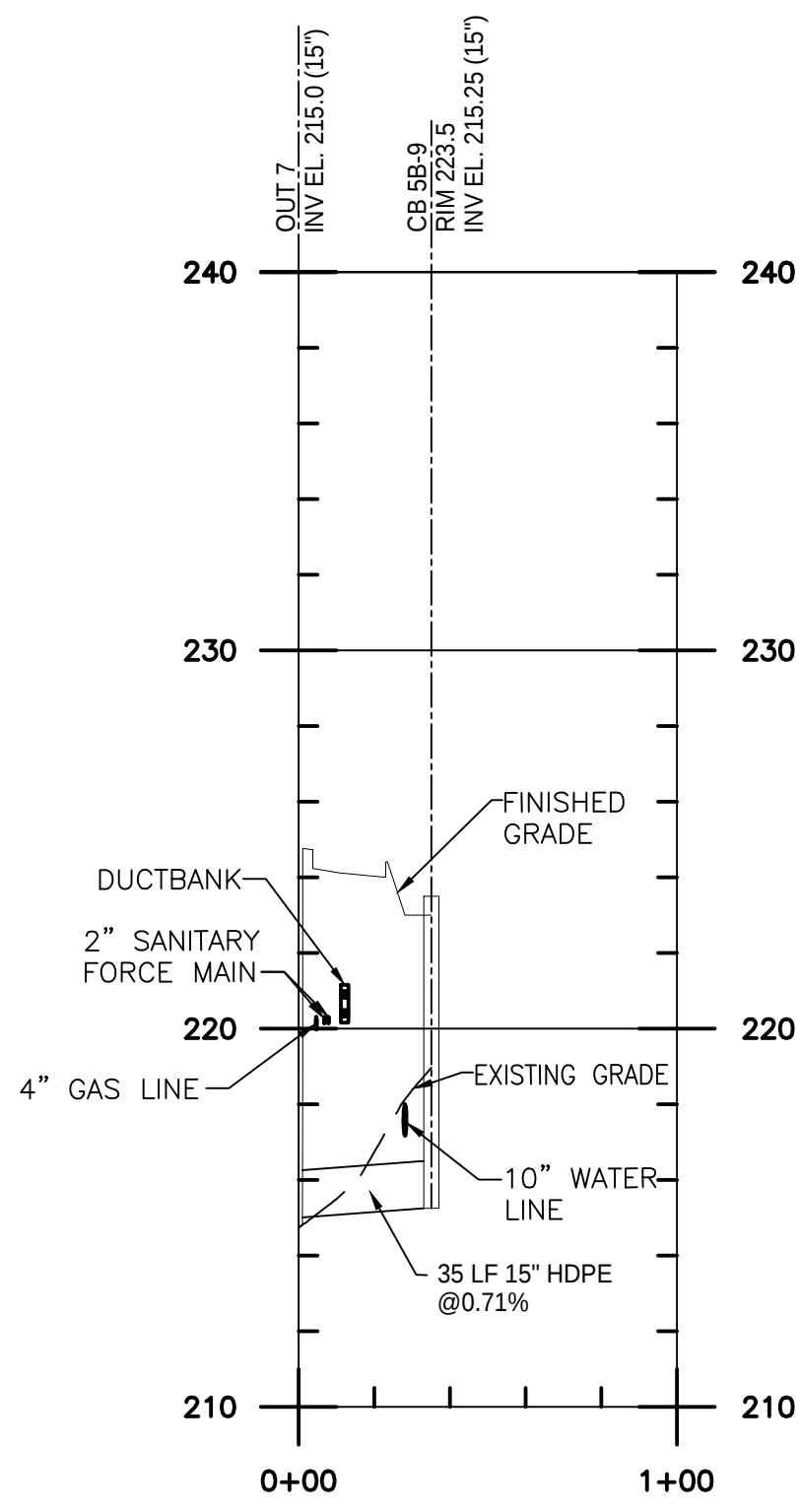
Planning Board—Town of East Greenbush BY DIRECTION OF CHAIRMAN OF THE PLANNING BOARD THESE PLANS ARE APPROVED SEE FIRST SHEET FOR DATE & SIGNATURE	
Drawing No. 27-G-1302-D-11	
Old Drawing No.	
Revision: B	Sheet:



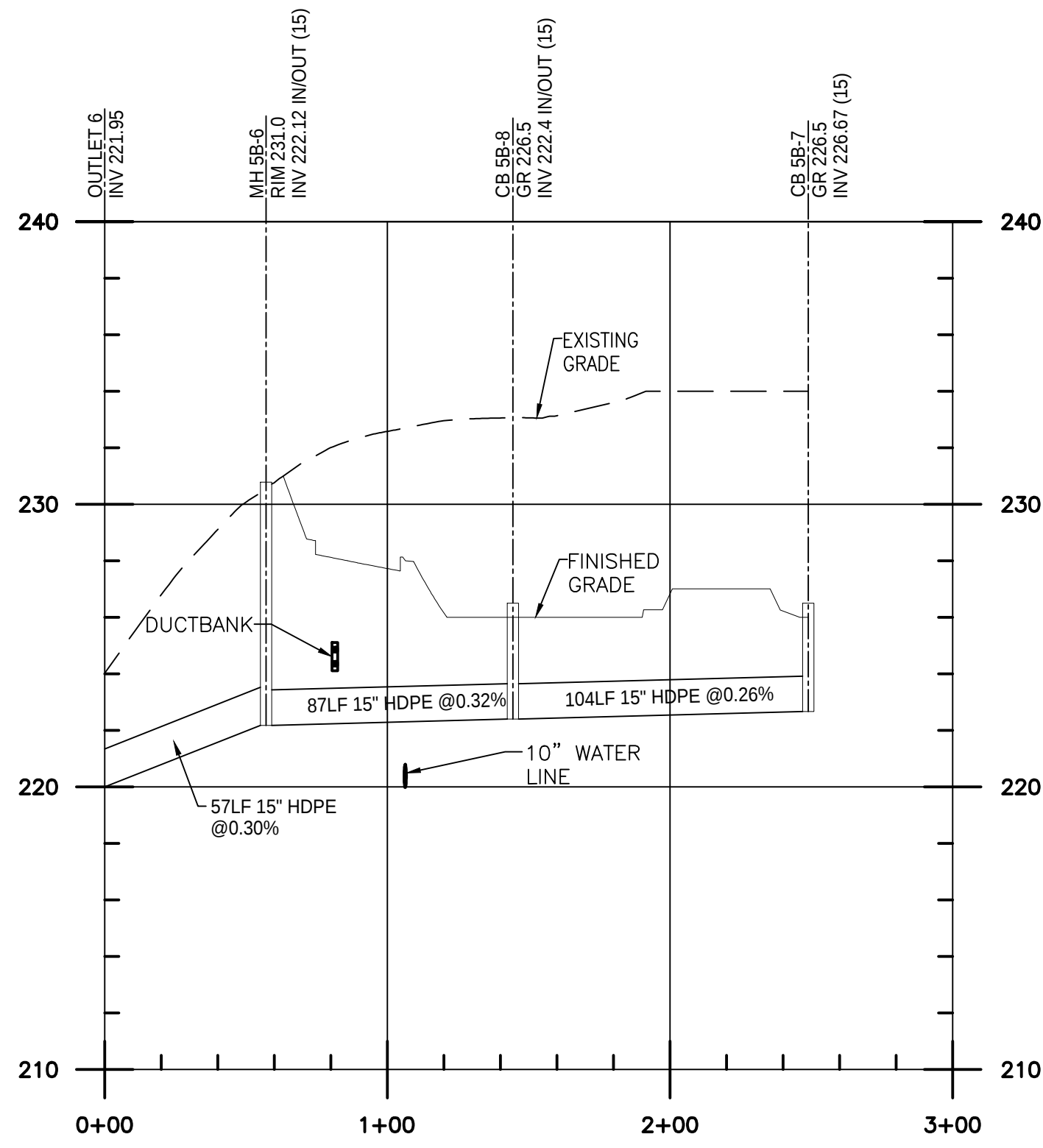
1 BIORETENTION 1 PROFILE
27-G-1302-D-12 SCALE: 1" = 50'-0"
SCALE: 1"= 5'-0"



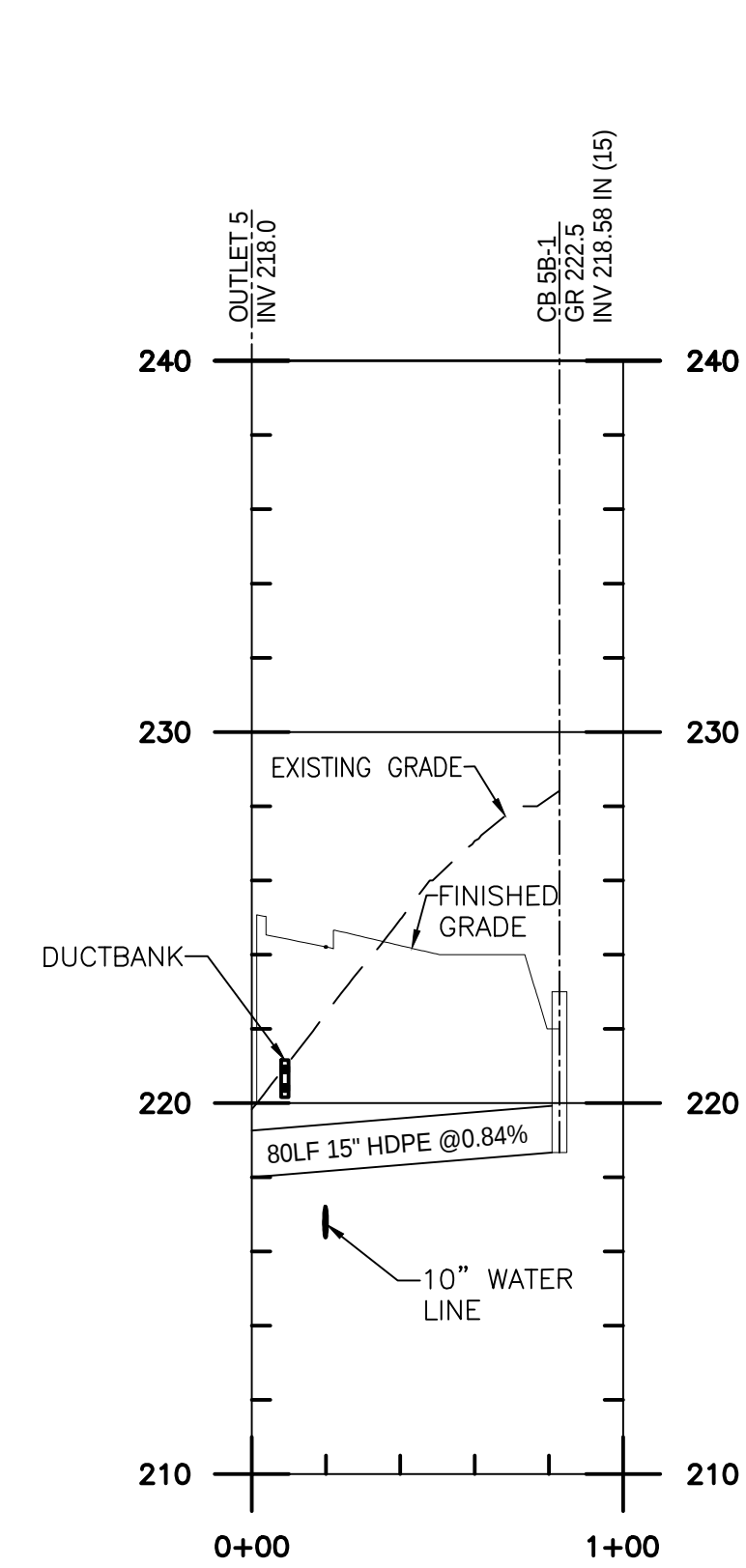
2 BIORETENTION 2 PROFILE
27-G-1302-D-12 SCALE: 1" = 50'-0"
SCALE: 1"= 5'-0"



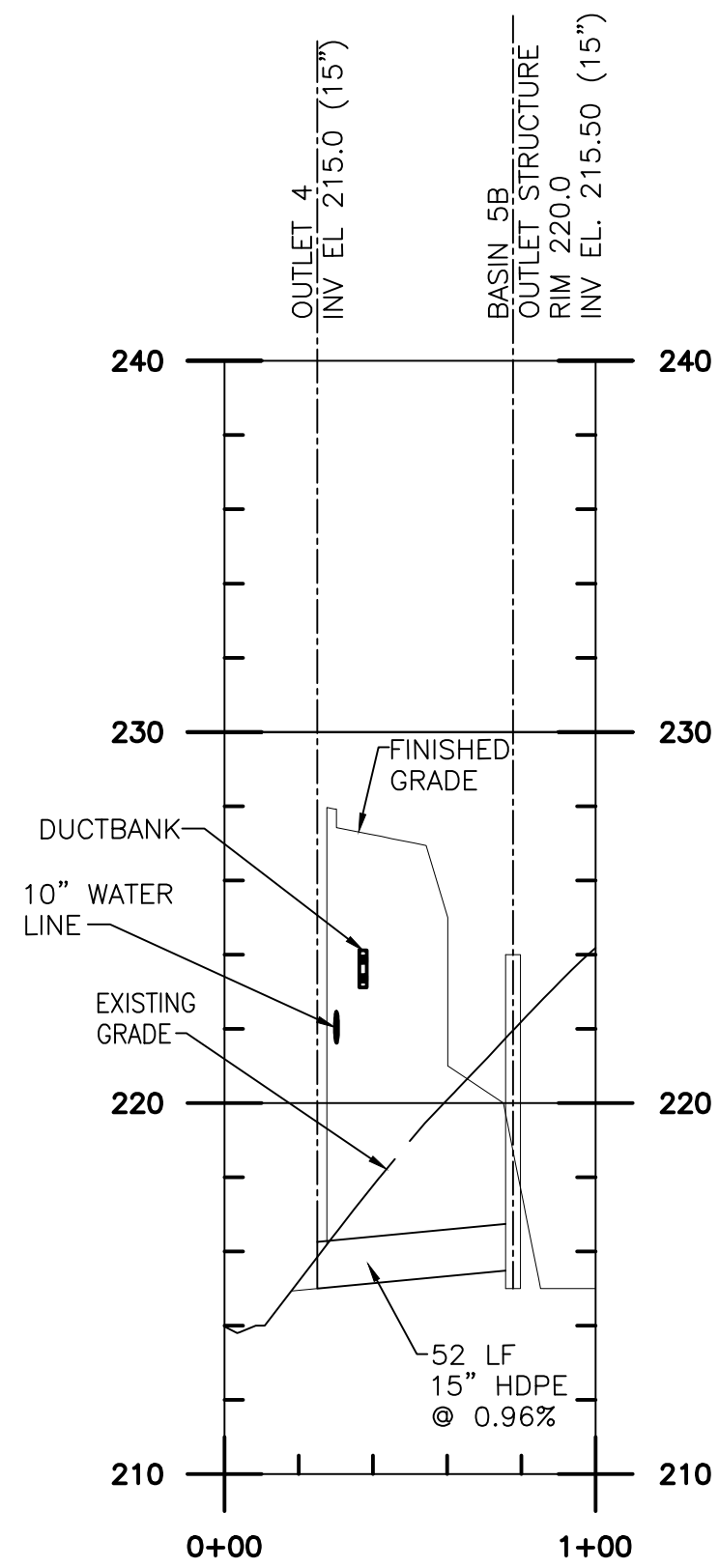
3 BIORETENTION 3 PROFILE
27-G-1302-D-12 SCALE: 1" = 50'-0"
SCALE: 1"= 5'-0"



4 BIORETENTION 4 AND 5 PROFILE
27-G-1302-D-12 SCALE: 1" = 50'-0"
SCALE: 1"= 5'-0"



5 BIORETENTION 6 PROFILE
27-G-1302-D-12 SCALE: 1" = 50'-0"
SCALE: 1"= 5'-0"



6 STORM BASIN 5B PROFILE
27-G-1302-D-12 SCALE: 1" = 50'-0"
SCALE: 1"= 5'-0"

Planning Board--Town of East Greenbush
BY DIRECTION OF
CHAIRMAN OF THE PLANNING
BOARD THESE PLANS ARE APPROVED
SEE FIRST SHEET FOR DATE & SIGNATURE

Rev #	Date:	Description	Drawn By:	Rev #	Date:	Description	Drawn By:
A	19 Jun 2019	Issued for Permit	JR				
B	15 Jul 2019	ISSUED FOR PERMIT					

CONFIDENTIAL

THIS DRAWING IS THE PROPERTY OF
REGENERON PHARMACEUTICALS, INC. THE
INFORMATION CONTAINED HEREIN MAY NOT
BE USED OR COPIED IN ANY MANNER
WITHOUT THE PRIOR WRITTEN PERMISSION
FROM REGENERON PHARMACEUTICALS, INC.

REGENERON

Regeneron Pharmaceuticals, Inc.
81 Columbia Turnpike
Rensselaer, NY 12144

STORMWATER PROFILES
SHEET 1

Scale: AS NOTED

Bldg.:

File No.: 27-G-1302-D-12.DWG

Date: 19/4/2019

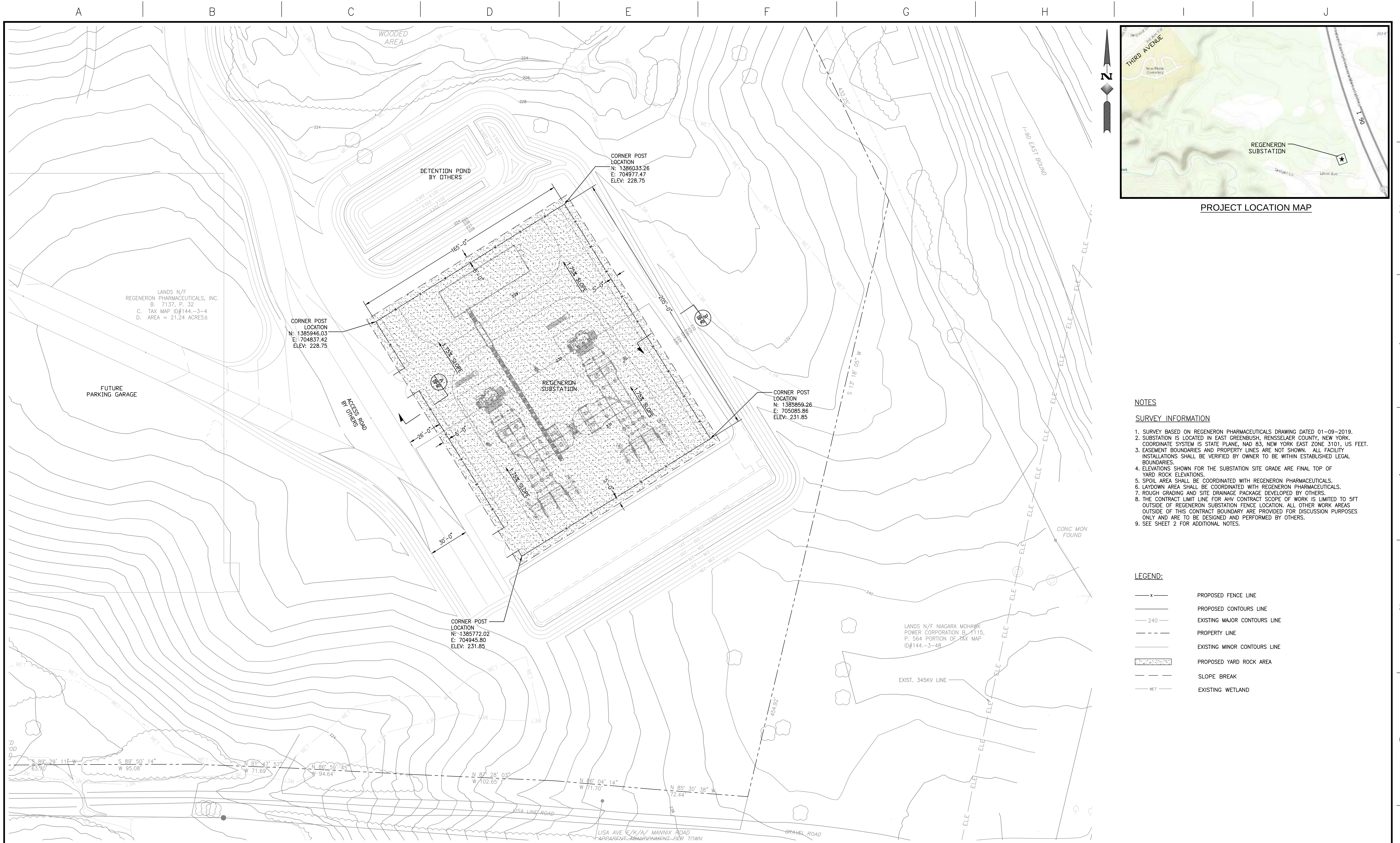
Drawing No.

27-G-1302-D-12

Old Drawing No.

Revision: B

Sheet:



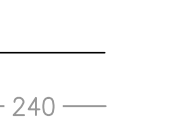
PROJECT LOCATION MAP

NOTES

SURVEY INFORMATION

1. SURVEY BASED ON REGENERON PHARMACEUTICALS DRAWING DATED 01-09-1991.
2. SUBSTATION IS LOCATED IN EAST GREENBUSH, RENSSELAER COUNTY, NEW YORK. COORDINATE SYSTEM IS STATE PLANE, NAD 83, NEW YORK EAST ZONE 3101, US FEET.
3. EASEMENT BOUNDARIES AND PROPERTY LINES ARE NOT SHOWN. ALL FACILITY INSTALLATIONS SHALL BE VERIFIED BY OWNER TO BE WITHIN ESTABLISHED LEGAL BOUNDARIES.
4. ELEVATIONS SHOWN FOR THE SUBSTATION SITE GRADE ARE FINAL TOP OF YARD ROCK ELEVATIONS.
5. SPOIL AREA SHALL BE COORDINATED WITH REGENERON PHARMACEUTICALS.
6. LAYDOWN AREA SHALL BE COORDINATED WITH REGENERON PHARMACEUTICALS.
7. ROUGH GRADING AND SITE DRAINAGE PACKAGE DEVELOPED BY OTHERS.
8. THE CONTRACT LIMIT LINE FOR AHV CONTRACT SCOPE OF WORK IS LIMITED TO 5FT OUTSIDE OF REGENERON SUBSTATION FENCE LOCATION. ALL OTHER WORK ARE OUTSIDE OF THIS CONTRACT. ALL WORK ARE PROVIDED FOR DISCUSSION PURPOSES ONLY AND ARE TO BE DESIGNED AND PERFORMED BY OTHERS.
9. SEE SHEET 2 FOR ADDITIONAL NOTES.

LEGEND:



- x — PROPOSED FENCE LINE
- PROPOSED CONTOURS LINE
- 240 — EXISTING MAJOR CONTOURS LINE
- - - - PROPERTY LINE
- EXISTING MINOR CONTOURS LINE
-  PROPOSED YARD ROCK AREA
- — — SLOPE BREAK
- WET — EXISTING WETLAND

PROPRIETARY INFORMATION AHV CLAIMS PROPRIETARY RIGHTS TO THE INFORMATION, DESIGN, AND LAYOUT DISCLOSED HEREIN. THIS DRAWING IS ISSUED FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT BE REPRODUCED, DISCLOSED TO OTHERS OR USED TO DESIGN OR CONSTRUCT ANY OF THE ITEMS SHOWN HEREIN WITHOUT THE EXPRESSED WRITTEN CONSENT OF AHV. COPYRIGHT 2018 — ALBANY, NY	REV.	DATE	DESCRIPTIONS	BY	CHK'D	APRV'D	REV.	DATE	DESCRIPTIONS	BY	CHK'D	APRV'D	STATE OF NEW YORK MARK S. GERED No. 8846 LICENSED PROFESSIONAL ENGINEER APPLIED HIGH VOLTAGE	REGENERON REGENERON PHARMACEUTICALS, INC. 115/13.8KV SUBSTATION SITE GRADING PLAN		PLOT SCALE: ARCH ENGRG 		
							D	02/15/19	ISSUED FOR PERMIT	SDD	DS	MS				PROJ. NO.: 19109	SCALE: 1"=30'	
							C	01/15/19	ISSUED FOR REVIEW	SDD	DS	DS				DWG. NO.: 110		
							B	09/25/18	ISSUED FOR 60% REVIEW	SDD	DS	DS				SHEET: 01	REV.: E	
	E	03/07/19	ISSUED FOR PERMIT		SDD	DS	MS	A	08/24/18	ISSUED FOR REVIEW	SDD	DS				DS		

GENERAL SITE GRADING NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS, GRADES, AND BEARINGS PRIOR TO ORDERING MATERIALS AND STARTING CONSTRUCTION. ANY ENGINEERS AND OWNER REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
2. ALL PROJECT AREA CLEARING, GRUBBING, EXCAVATION, BACKFILL AND EMBANKMENT SHALL CONFIRM TO PROJECT DRAWINGS AND THE GEOTECHNICAL REPORT RECOMMENDATIONS PREPARED BY DENTE GROUP ON AUGUST 3, 2018.
3. GRADING PLAN, INCLUDING PROPOSED SPOT ELEVATIONS, SHOWS FINAL TOP OF YARD ROCK ELEVATIONS. FINAL GRADE SHALL BE UNIFORMLY SLOPED BETWEEN PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ON THE PROJECT DRAWINGS.
4. PRIOR TO STARTING ANY OTHER WORK AT THE SITE, CONTRACTOR SHALL CREATE PROPER AND POSITIVE DRAINAGE TO PROVIDE A RELATIVELY DRY CONDITION. PONDING OF WATER AT THE SITE SHALL BE AVOIDED.
5. SUBGRADES SHALL BE PROTECTED FROM DISTURBANCE, DO NOT ALLOW ACCUMULATION OF WASTE, DEBRIS, CONSTRUCTION WATER, RUBBISH, ETC. THAT CAN CREATE HAZARDOUS CONDITIONS.
6. NO FILL SHALL BE PLACED ON FROZEN GROUND AND FILL MATERIALS SHALL NOT CONTAIN ANY FROZEN MATERIAL.
7. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE DUST CONTROL MEASURES AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION OPERATION.
8. IF GROUNDWATER OR PERCHED SURFACE WATER IS ENCOUNTERED DURING ANY GRADING OR EXCAVATION PROCESS, CONSULT WITH THE GEOTECHNICAL ENGINEER REGARDING STABILIZATION OF THE BASES OF THE EXCAVATIONS AND BACKFILL.

EXISTING UTILITY NOTES:

1. ALL EXISTING UTILITIES WITHIN LIMITS OF PLAN ARE BELIEVED TO BE SHOWN. HOWEVER, THIS DOES NOT RELIEVE THE CONTRACTOR FROM FOLLOWING REQUIRED PROCEDURES FOR SAFE DIGGING, INCLUDING CALLING THE REQUIRED UNDERGROUND UTILITY LOCATING SERVICES, PRIOR TO EXCAVATION.
2. ALL EXISTING UTILITIES ARE TO BE PROTECTED FOR THE DURATION OF WORK. CONTRACTOR SHALL USE METHODS THAT AVOID DISRUPTION AND DAMAGE TO UTILITIES.
3. UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND THE ACTUAL UTILITY LOCATIONS MAY VARY. AHPV DO NOT GUARANTEE THE PRESENCE, LOCATION, ALIGNMENT, SIZE, TYPE OR DEPTH OF ANY PUBLIC OR PRIVATE UNDERGROUND/ABOVE GROUND UTILITY OR STRUCTURES WHICH MAY OR MAY NOT BE SHOWN ON THE DRAWINGS.

COARSE AGGREGATE NOTES:

1. INSTALL A LAYER OF COARSE AGGREGATE OVER THE ENTIRE SUBSTATION AREA, INCLUDING THE EXTENSION BEYOND THE PERIMETER FENCE (SAME AREA THAT IS TO RECEIVE YARD ROCK). THE COARSE AGGREGATE SHALL CONFORM TO THE FOLLOWING:
2. WELL-GRADED SAND-GRAVEL MIX CONFORMING TO NYSDOT, SECTION 304.12, COARSE AGGREGATE, TYPE 2.
3. 5% MAX TOTAL OF SHALE, ORGANICS, FOREIGN MATERIAL, SOFT, POOR-DURABILITY, OR DISINTEGRATED MATERIAL.
4. MINIMUM THICKNESS AS SHOWN ON DETAILS. ADDITIONAL THICKNESS AS REQUIRED TO BRING SUBBASE UP TO THE BOTTOM OF THE PROPOSED YARD ROCK.
5. LOOSE LIFT THICKNESS NOT EXCEEDING 6 INCHES.
6. COMPACTED TO 95% OF MAXIMUM MODIFIED PROCTOR DENSITY (ASTM D1557) WITHIN 2% OF OPTIMUM MOISTURE CONTENT.
7. CONTRACTOR SHALL SUBMIT CERTIFICATION, FOR ACCEPTANCE BY AHV PRIOR TO INSTALLATION, THAT COARSE AGGREGATE MATERIAL COMPLIES WITH ABOVE REQUIREMENTS.

YARD ROCK NOTES:

1. INSTALL A LAYER OF YARD ROCK OVER THE ENTIRE SUBSTATION AREA AS SHOWN OR INDICATED, INCLUDING THE EXTENSION BEYOND THE PERIMETER FENCE. THE YARD ROCK SHALL CONFORM TO THE FOLLOWING:
2. CRUSHED QUARRY STONE AND COMPLYING WITH NYSDOT SPECIFICATION.
3. UNIFORMLY GRADED TO NOMINAL, AS FOLLOWS:

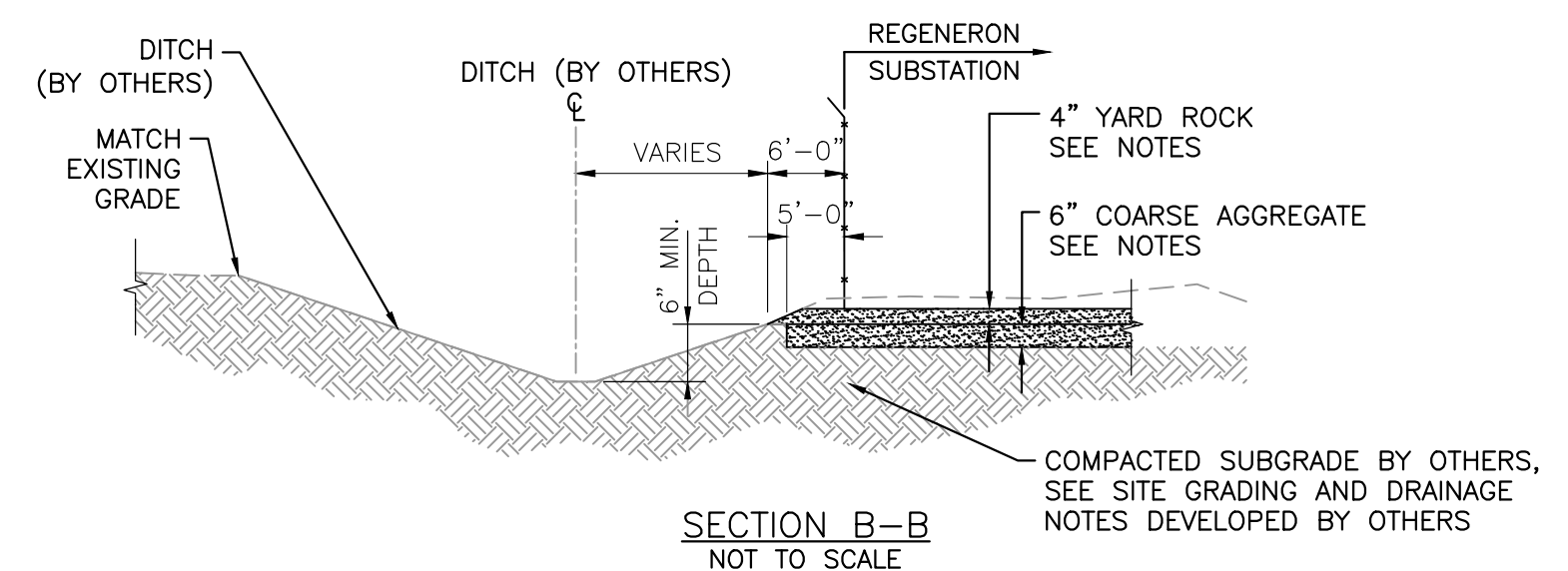
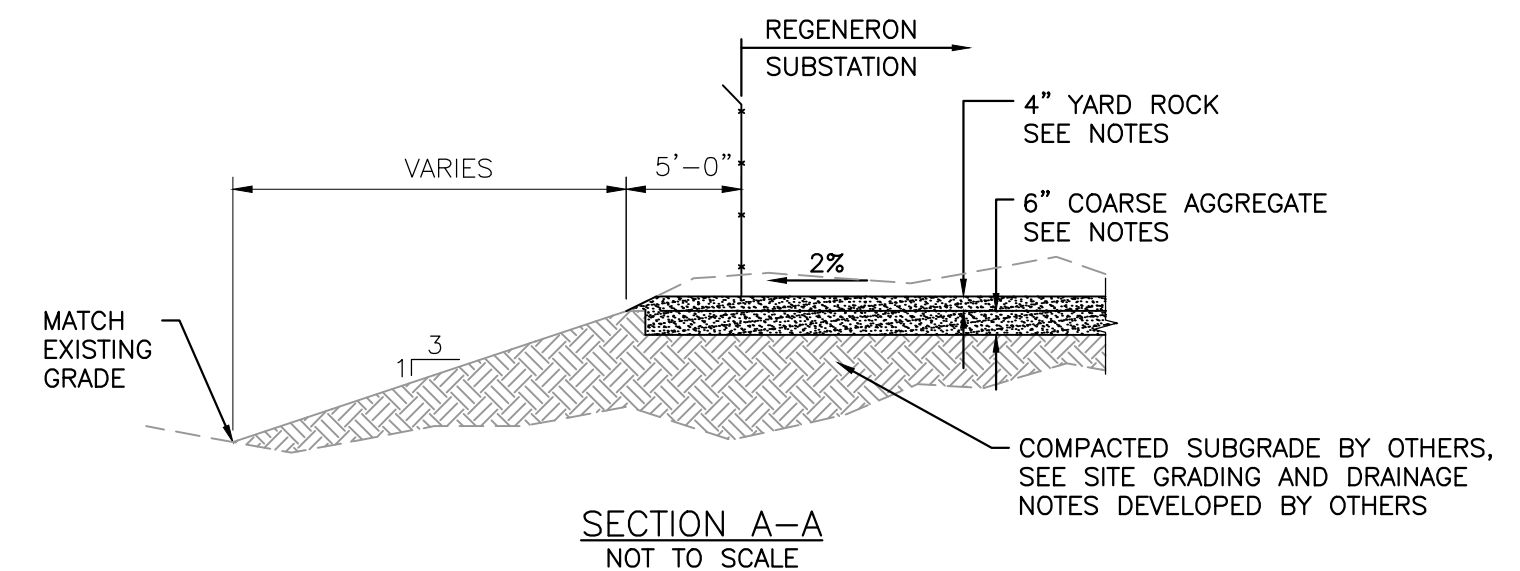
SIEVE SIZE	<u>% PASSING BY WEIGHT</u>
1 ½ INCH	100
1 INCH	95 TO 100
½ INCH	25 TO 60
#4	0 TO 10
#8	0 TO 5
4. FREE FROM (5% MAX TOTAL) EXCESS FLAT, ELONGATED, ROUNDED, SOFT, POOR-DURABILITY, OR DISINTEGRATED MATERIAL. ROUNDED AGGREGATE WILL NOT BE ACCEPTED.
5. YARD ROCK SHALL HAVE A MINIMUM ELECTRICAL RESISTIVITY OF 3000 OHM-METER.
6. MINIMUM THICKNESS AS SHOWN ON DETAILS. ADDITIONAL THICKNESS AS REQUIRED TO BRING THE YARD STONE UP TO PROPOSED ELEVATIONS.
7. CONTRACTOR SHALL SUBMIT CERTIFICATION, FOR ACCEPTANCE BY AHV PRIOR TO INSTALLATION, THAT YARD ROCK MATERIAL COMPLIES WITH ABOVE REQUIREMENTS.

SOIL STERILIZATION NOTES:

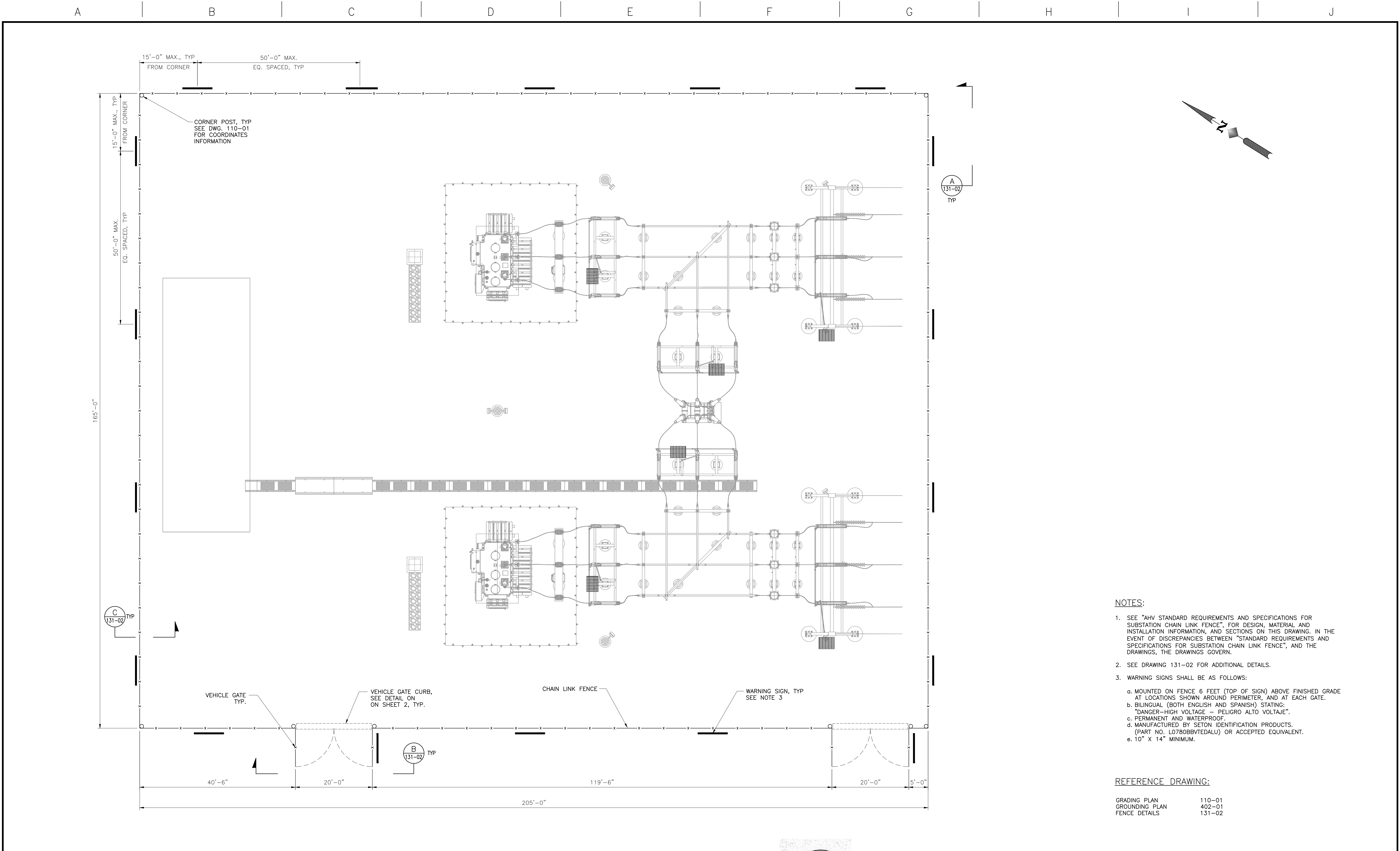
1. SOIL STERILIZATION SHALL BE APPLIED TO TOP OF THE YARD STONE AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE RIGHT HERBICIDE(S) FOR SITE LOCATION WHICH ARE MOST EFFECTIVE FOR THE GIVEN SEASON OF APPLICATION, SOIL CONDITIONS AND PLANT MATERIAL AT THE SUBSTATION SITE AND WHICH MINIMIZE THE POTENTIAL FOR ANY ENVIRONMENTAL IMPACT TO SURROUNDING AREAS. HERBICIDE(S) SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS/RECOMMENDATIONS AND ACCORDING TO STATE AND LOCAL LAWS AND IN A MANNER TO AVOID MIGRATION OUTSIDE SUBSTATION AREAS.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND ENSURE THAT ADEQUATE EROSION AND SEDIMENTATION CONTROLS ARE USED THROUGHOUT THE PROJECT AREA.
2. LIMIT CLEARING AND GRUBBING OPERATIONS TO AREAS ACTUALLY REQUIRING GRADING OPERATIONS.
3. THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME BY CONSTRUCTION OPERATIONS SHALL BE KEPT TO A MINIMUM.
4. ALL SLOPES, CROWNS, DITCHES, CULVERTS, AND OTHER DRAINAGE FEATURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES.
5. DITCHES AND OTHER DRAINAGE FACILITIES NECESSARY TO REMOVE PONDED WATER SHALL BE CONSTRUCTED AS SOON AS PRACTICAL TO ENSURE THAT THE WORK AREA IS DRY DURING THE PROGRESSION OF WORK.
6. EROSION CONTROL BARRIERS SHALL BE INSTALLED BEFORE COMMENCING ANY GRADING OPERATIONS, LEFT IN PLACE AND THEN REMOVED WHEN VEGETATION IS FIRMLY REESTABLISHED OVER ALL DISTURBED AREAS.
7. ALL ADJACENT AREAS SHALL BE RETURNED TO CONDITIONS EXISTING PRIOR TO START OF WORK.
8. EROSION AND SEDIMENT CONTROL SHALL BE INSTALL ACCORDING WITH THE SWPPP DOCUMENTS COMPLETED FOR THIS PROJECT BY OTHERS.



PROPRIETARY INFORMATION AHV CLAIMS PROPRIETARY RIGHTS TO THE INFORMATION, DESIGN, AND LAYOUT DISCLOSED HEREIN. THIS DRAWING IS ISSUED FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT BE REPRODUCED, DISCLOSED TO OTHERS OR USED TO DESIGN OR CONSTRUCT ANY OF THE ITEMS SHOWN HEREIN WITHOUT THE EXPRESSED WRITTEN CONSENT OF AHV. COPYRIGHT 2018 — ALBANY, NY	REV.	DATE	DESCRIPTIONS	BY	CHK'D	APRV'D	REV.	DATE	DESCRIPTIONS	BY	CHK'D	APRV'D	STATE OF NEW YORK MARK S. SCHENCK REGISTERED PROFESSIONAL ENGINEER NO. 68843 APPLIED HIGH VOLTAGE	REGENERON REGENERON PHARMACEUTICALS, INC.		PLOT SCALE: ARCH ENGRG 0 1 2	
							D	02/15/19	ISSUED FOR PERMIT	SDD	DS	MS		PROJ. NO.: 19109		SCALE: NONE	
							C	01/15/19	ISSUED FOR REVIEW	SDD	DS	DS		DWG. NO.: 110		SHEET: 02	REV.: E
							B	09/25/18	ISSUED FOR 60% REVIEW	SDD	DS	DS					
	E	03/07/19	ISSUED FOR PERMIT		SDD	DS	MS	A	08/24/18	ISSUED FOR REVIEW	SDD	DS		DS			
115/13.8kV SUBSTATION SITE GRADING NOTES AND DETAILS																	

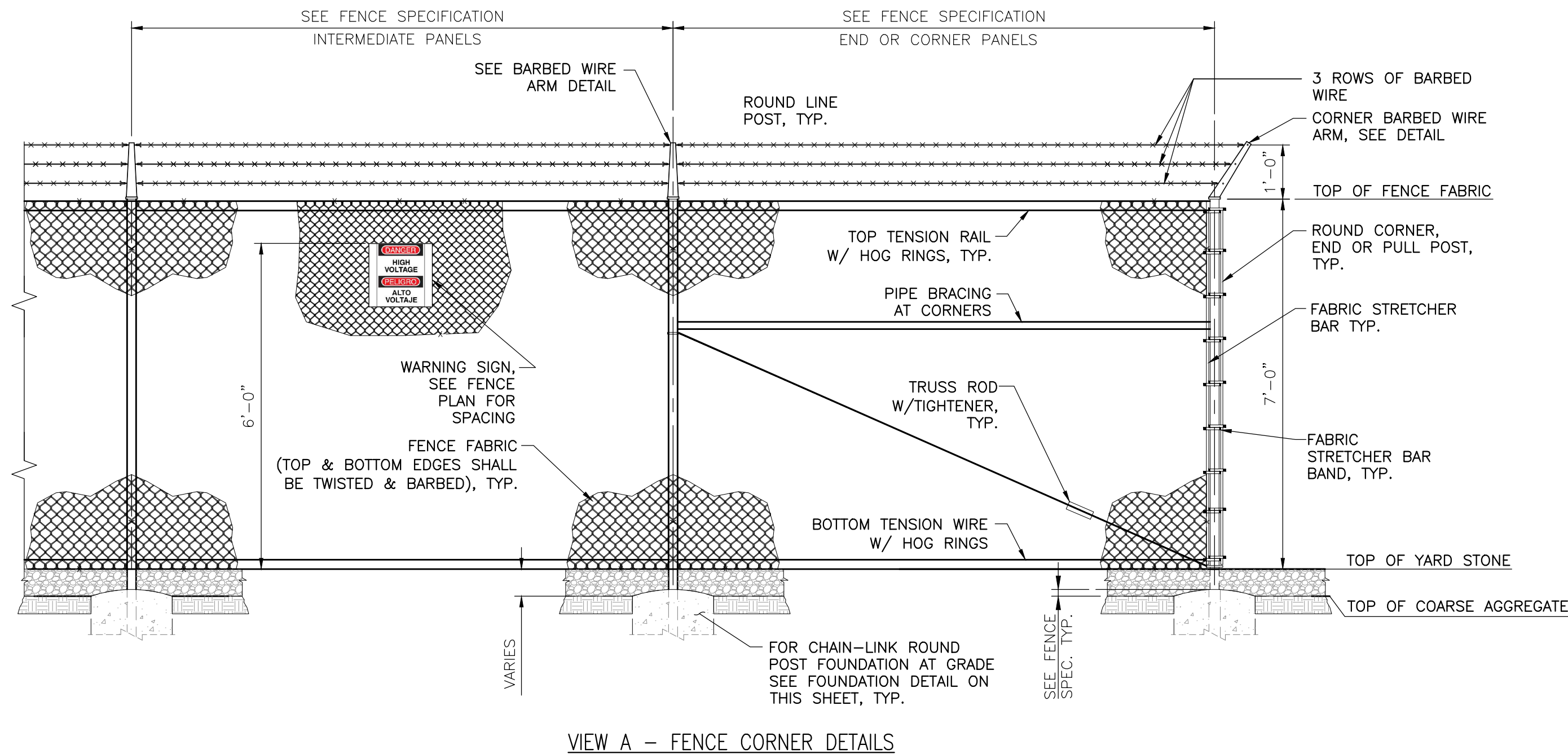


- NOTES:
- SEE "AHV STANDARD REQUIREMENTS AND SPECIFICATIONS FOR SUBSTATION CHAIN LINK FENCE", FOR DESIGN, MATERIAL AND INSTALLATION INFORMATION, AND SECTIONS ON THIS DRAWING. IN THE EVENT OF DISCREPANCIES BETWEEN "STANDARD REQUIREMENTS AND SPECIFICATIONS FOR SUBSTATION CHAIN LINK FENCE", AND THE DRAWINGS, THE DRAWINGS GOVERN.
 - SEE DRAWING 131-02 FOR ADDITIONAL DETAILS.
 - WARNING SIGNS SHALL BE AS FOLLOWS:
 - MOUNTED ON FENCE 6 FEET (TOP OF SIGN) ABOVE FINISHED GRADE AT LOCATIONS SHOWN AROUND PERIMETER, AND AT EACH GATE.
 - BILINGUAL (BOTH ENGLISH AND SPANISH) STATING: "DANGER-HIGH VOLTAGE - PELIGRO ALTO VOLTAJE".
 - PERMANENT AND WATERPROOF.
 - MANUFACTURED BY SETON IDENTIFICATION PRODUCTS. (PART NO. L0780BBVTEDALU) OR ACCEPTED EQUIVALENT.
 - 10" X 14" MINIMUM.

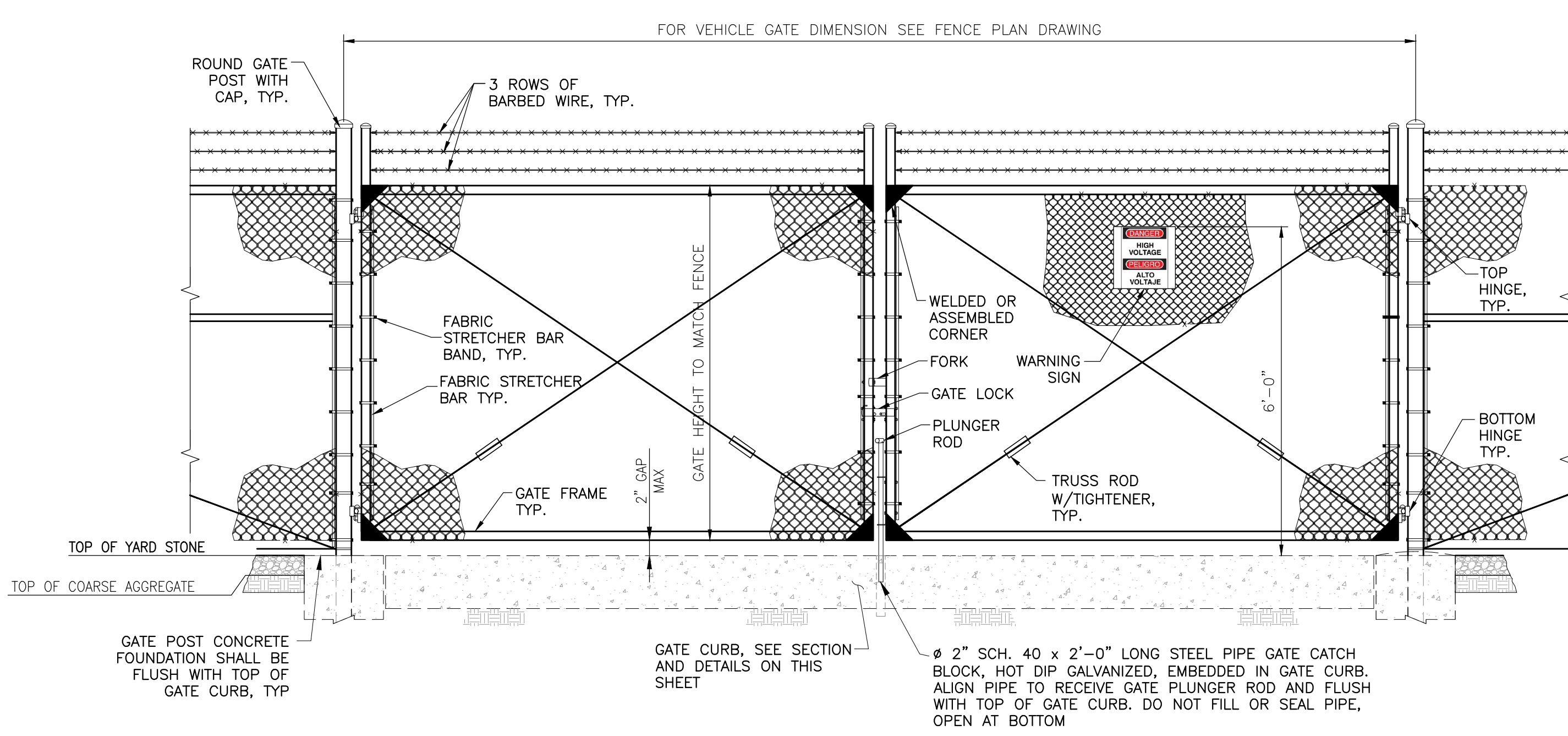
REFERENCE DRAWING:

GRADING PLAN 110-01
GROUNDING PLAN 402-01
FENCE DETAILS 131-02

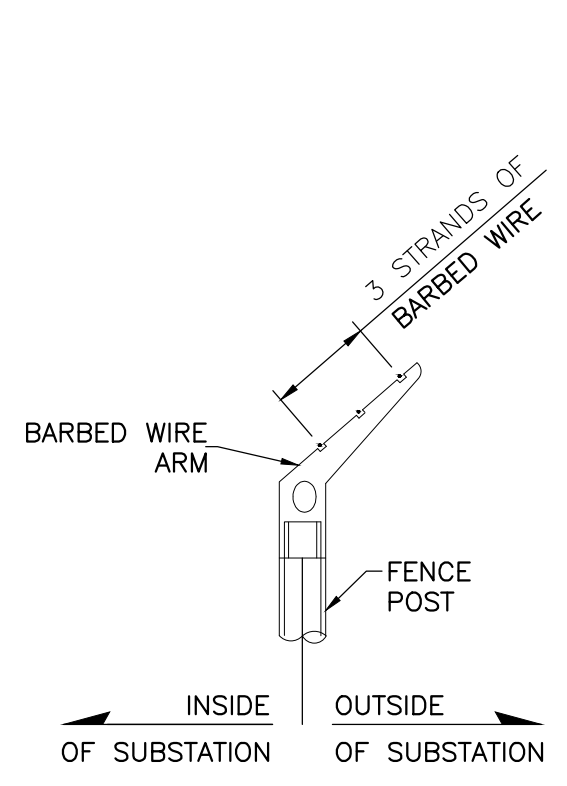
PROPRIETARY INFORMATION AHV CLAIMS PROPRIETARY RIGHTS TO THE INFORMATION, DESIGN, AND LAYOUT DISCLOSED HEREIN. THIS DRAWING IS ISSUED FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT BE REPRODUCED, DISCLOSED TO OTHERS OR USED TO DESIGN OR CONSTRUCT ANY OF THE ITEMS SHOWN HEREIN WITHOUT THE EXPRESSED WRITTEN CONSENT OF AHV. COPYRIGHT 2018 - ALBANY, NY	REV.	DATE	DESCRIPTIONS	BY	CHK'D	APRV'D	REV.	DATE	DESCRIPTIONS	BY	CHK'D	APRV'D
							B	02/15/19	ISSUED FOR PERMIT	SDD	DS	MS
							A	09/25/18	ISSUED FOR 60% REVIEW	SDD	DS	DS
STATE OF NEW YORK MAX S. SCHER NO. 68448 LICENSED PROFESSIONAL ENGINEER APPLIED HIGH VOLTAGE												
REGENERON REGENERON PHARMACEUTICALS, INC. 115/13.8kV SUBSTATION FENCE PLAN										PLOT SCALE: ARCH ENGRG 0 1 2 0 1 2 PROJ. NO.: 19109 DWG. NO.: 131 SCALE: 3/32"=1'-0" SHEET: 01 REV: B		



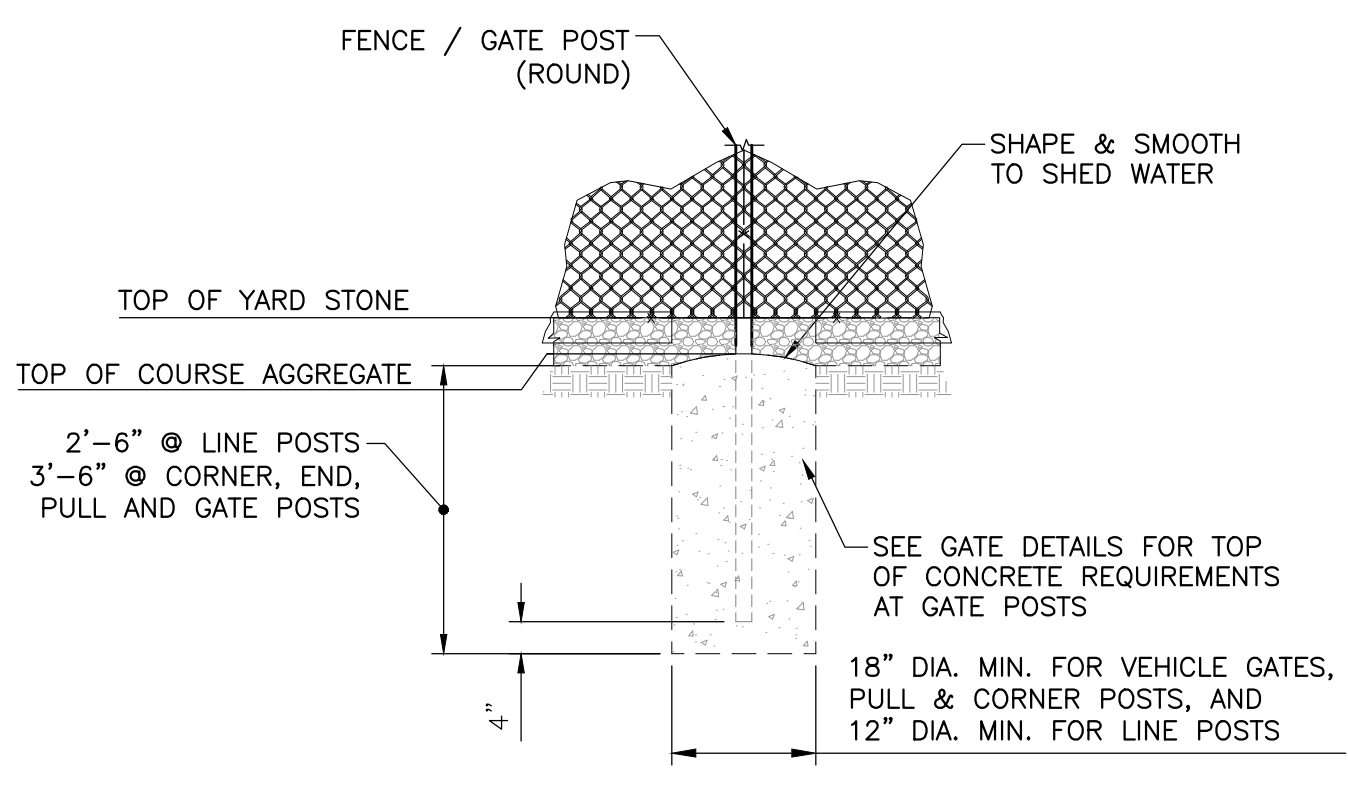
VIEW A - FENCE CORNER DETAILS



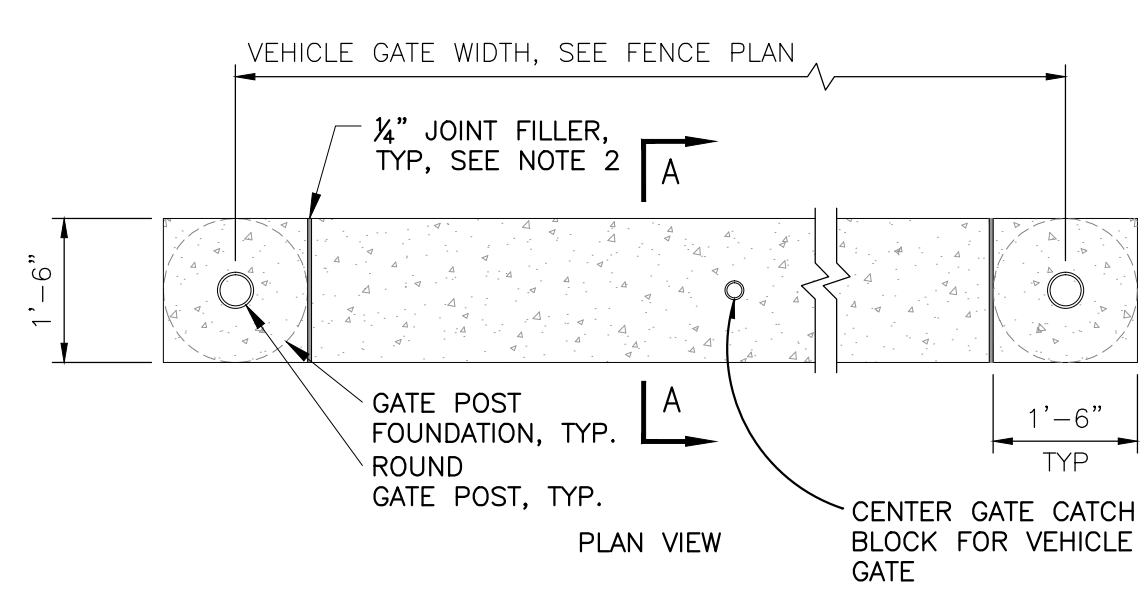
VIEW B - VEHICLE GATE DETAILS



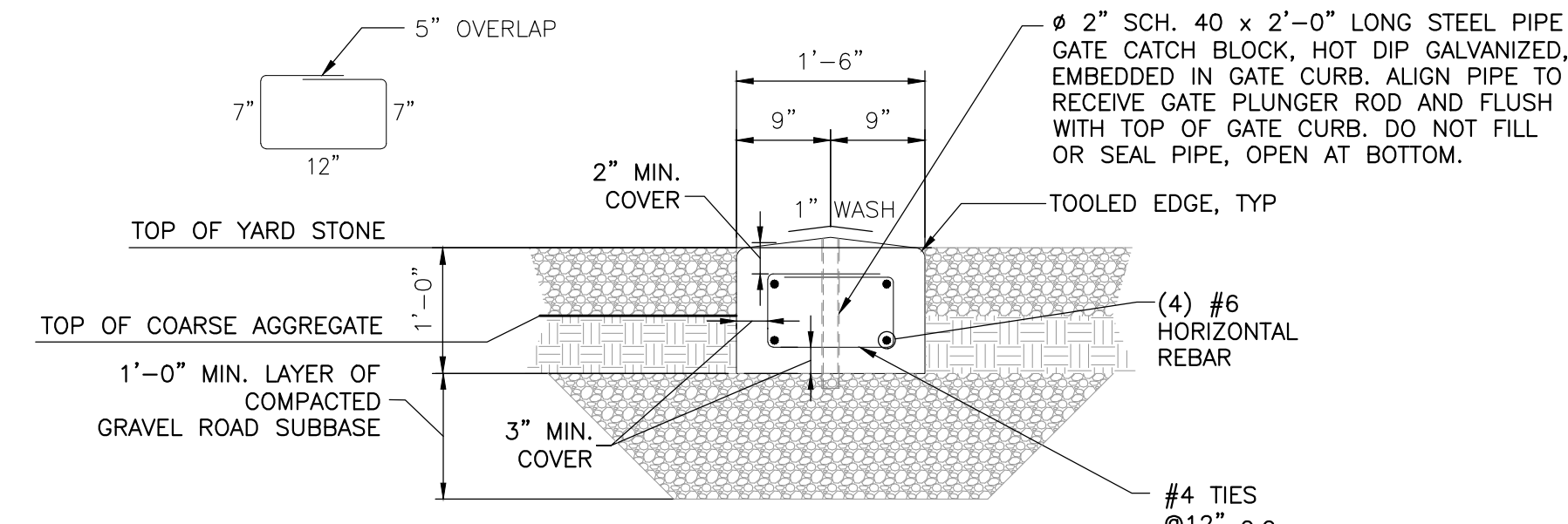
VIEW C - TYPICAL BARBED WIRE ARM DETAIL



POST - CONCRETE FOUNDATION DETAIL



VEHICLE GATE CURB DETAIL



GATE CURB SECTION A-A

- NOTES:
- SEE "AHV STANDARD REQUIREMENTS AND SPECIFICATIONS FOR SUBSTATION CHAIN LINK FENCE", FOR DESIGN, MATERIAL AND INSTALLATION INFORMATION, AND SECTIONS ON THIS DRAWING. IN THE EVENT OF DISCREPANCIES BETWEEN "STANDARD REQUIREMENTS AND SPECIFICATIONS FOR SUBSTATION CHAIN LINK FENCE", AND THE DRAWINGS, THE DRAWINGS GOVERN.
 - INSTALL 1/4" MINIMUM PREMOULDED JOINT FILLER AT EACH SIDE OF GATE CURB.
 - WARNING SIGNS SHALL BE AS FOLLOWS:
 - MOUNTED ON FENCE 6 FEET (TOP OF SIGN) ABOVE FINISHED GRADE AT LOCATIONS SHOWN AROUND PERIMETER, AND AT EACH GATE.
 - BILINGUAL (BOTH ENGLISH AND SPANISH) STATING: "DANGER-HIGH VOLTAGE - PELIGRO ALTO VOLTAJE".
 - PERMANENT AND WATERPROOF.
 - MANUFACTURED BY SETON IDENTIFICATION PRODUCTS. (PART NO. L0780BBVTEDALU) OR ACCEPTED EQUIVALENT.
 - 10" X 14" MINIMUM.

REFERENCE DRAWING:

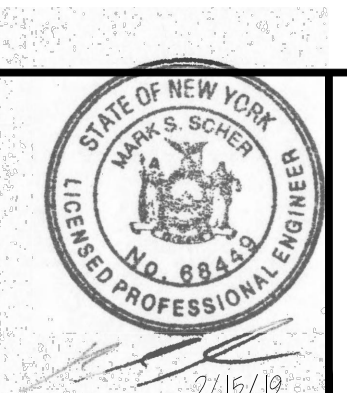
GRADING PLAN	110-01
GROUNDING PLAN	402-01
FENCE PLAN	131-01

PROPRIETARY INFORMATION

AHV CLAIMS PROPRIETARY RIGHTS TO THE INFORMATION, DESIGN, AND LAYOUT DISCLOSED HEREIN. THIS DRAWING IS ISSUED FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT BE REPRODUCED, DISCLOSED TO OTHERS OR USED TO DESIGN OR CONSTRUCT ANY OF THE ITEMS SHOWN HEREIN WITHOUT THE EXPRESSED WRITTEN CONSENT OF AHV.

COPYRIGHT 2018 - ALBANY, NY

REV.	DATE	DESCRIPTIONS	BY	CHK'D	APR'D	REV.	DATE	DESCRIPTIONS	BY	CHK'D	APR'D
						B	02/15/19	ISSUED FOR PERMIT	SDD	DS	MS
						A	09/25/18	ISSUED FOR 60% REVIEW	SDD	DS	DS



REGENERON REGENERON PHARMACEUTICALS, INC.
115/13.8kV SUBSTATION FENCE DETAILS

PLOT SCALE:		
ARCH ENGRG 0 1 2 0 1 2		
PROJ. NO.:	SCALE:	
19109	NONE	
DWG. NO.:	SHEET:	REV.:
131	02	B

This document contains confidential and proprietary information of Niagara Mohawk Power Corporation, d/b/a National Grid ("National Grid"). It is to be used by authorized contractors for National Grid solely in connection with the specific project for which it has been transmitted. Any other use, reproduction, or dissemination without prior express written authorization of National Grid is strictly prohibited.



M.L. Z15794, P.R. 912057 - CKT. #4 115KV SUPPLY
M.L. Z15906, P.R. 912302 - CKT. #9 115KV SUPPLY

SURVEY FILE #5047

PREPARED BY

TRANSMISSION SYSTEM

RIVERSIDE-REYNOLDS RD. #4

REYNOLDS RD. - GREENBUSH #9

115kV SUPPLIES TO REGENERON PHARMACEUTICALS

PLAN

W.O. 10028109156 - CKT. #4 115KV SUPPLY
W.O. 10026914104 - CKT. #9 115KV SUPPLY

SH. 1