REALIGNMENT OF OLD FARMS ROAD

LOTCIP/CTDOT PROJECT NO. L004-0001

AVON · CONNECTICUT

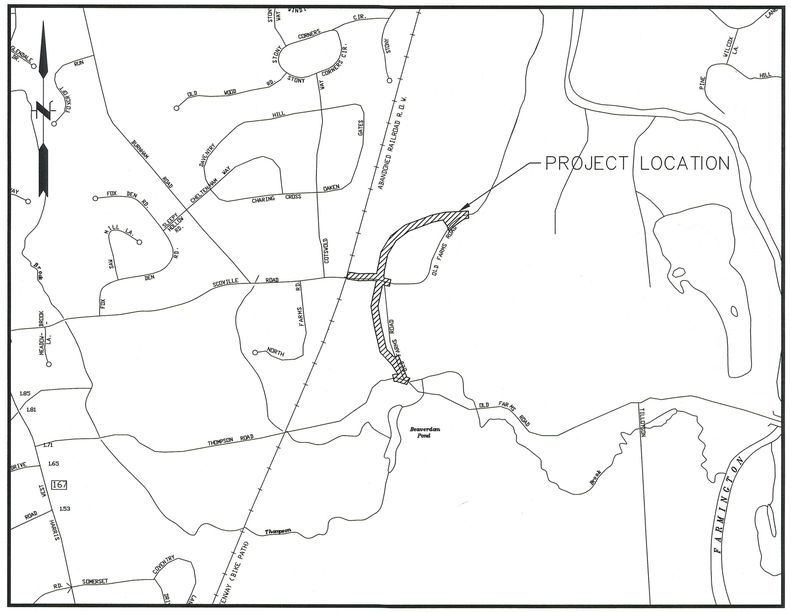
MARCH 2023

PREPARED FOR

TOWN OF AVON
60 WEST MAIN STREET (ROUTE 44)
AVON, CT 06001

PREPARED BY

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com



LOCATION MAP
SCALE: 1" = 1000'

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
OLD FARMS ROAD	TOWN OF AVON	3400 FEET
SCOVILLE ROAD	TOWN OF AVON	400 FEET
THOMPSON ROAD	TOWN OF AVON	170 FEET
ROUNDABOUT	TOWN OF AVON	352 FEET
PRIVATE DRIVE NO. 1	AVON OLD FARMS SCHOOL	305 FEET
PRIVATE DRIVE NO. 2	AVON OLD FARMS SCHOOL	160 FEET

GENERAL NOTES:

1. CONSTRUCTION SPECIFICATIONS:
   - Connecticut Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 818 dated 2020, Supplemental Specifications dated July 2022, and Special Provisions

2. DESIGN:
   - Connecticut Department of Transportation Highway Design Manual, dated 2003, revised 2020
   - NCHRP 672 - Roundabouts: An Informational Guide
   - AASHTO A Policy on Geometric Design of Highway and Streets Manual, 7th Edition dated 2018
   - AASHTO Guide for the Development of Bicycle Facilities dated 2012
   -
3. SURVEY:
   - Original survey by Golden Aerial Survey, Inc. (2016)
   - Supplemental survey by Fuss & O'Neill (MAY 2021)
   - Topographic Information based on NAD83 Horizontal and NAVD88 Vertical Datums

4. AVERAGE DAILY TRAFFIC (ADT):
   - 5714 Old Farms Road (May 2017)

SHEET INDEX

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TXS-01 - TXS-04	TYPICAL ROADWAY SECTIONS
MDS-01 - MDS-17	MISCELLANEOUS DETAILS
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STG-01	CONSTRUCTION STAGING PLAN
DTR-01	DETOUR PLAN
EE-01	UTILITY (F.I.O.) EVERSOURCE
FR-01	UTILITY (F.I.O.) FRONTIER
CG-01	UTILITY (F.I.O.) CNG
	CTDOT HIGHWAY STANDARD SHEETS
	CTDOT TRAFFIC STANDARD SHEETS

BID NUMBER:_____

Approved By: Brandon Robertson Date 3/2/2023
Brandon Robertson
Town Manager - Town of Avon

Designed By: Kristen Solloway Date 3/1/2023
Kristen E. Solloway
CT P.E. License No. 22072

STATE OF CONNECTICUT · KRISTEN E. SOLLOWAY · No. 22072 · LICENSED PROFESSIONAL ENGINEER

FINAL DESIGN (100%) DOCUMENTS

PROJ. No.: 20160663.A30
DATE: MARCH 2023

COV-01

File Path: J:\DWG\P20160663\A30\Civil\Plan\20160663A30_COV01.dwg, Layout: COV_01, Plotted: Wednesday, March 01, 2023, User: sbearce Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

GENERAL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818 DATED 2020, AND SUPPLEMENTAL SPECIFICATIONS DATED JULY 2022, AND SPECIAL PROVISIONS.
2. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
3. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
4. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
5. BASE PLAN: THE PROPERTY AND APPARENT RIGHT–OF–WAY LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY FUSS & O'NEILL, AND FROM PLANS OF RECORD. THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN AERIAL SURVEY PREFORMED BY GOLDEN AERIAL SURVEYS, INC AND SUPPLEMENTED BY ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY FUSS & O'NEILL DURING MAY OF 2021.
6. TOPOGRAPHIC INFORMATION IS BASED ON NAD83 HORIZONTAL AND NAVD88 VERTICAL DATUMS.
7. GEOTECHNICAL DATA INCLUDING BORING LOCATIONS AND ELEVATIONS WERE OBTAINED FROM SEABOARD DRILLING AND FUSS & O'NEILL IN JUNE OF 2021.
8. WETLANDS WERE DELINEATED BY JOSHUA H. WILSON (FUSS & O'NEILL) ON JULY 30, 2018.

PROSECUTION OF WORK

1. THE CONTRACTOR SHALL STAKE THE LIMITS OF ROADWAY CORRIDOR CLEARING AND FIELD VERIFY WITH THE ENGINEER AND TOWN OF AVON PRIOR TO PERFORMING PROJECT–WIDE CLEARING AND GRUBBING.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND EGRESS FROM ALL COMMERCIAL AND RESIDENTIAL DRIVEWAYS, INCLUDING ALL DRIVEWAYS WITH DIRECT ACCESS TO AVON OLD FARMS SCHOOL, THROUGHOUT THE PROJECT LIMITS. IF A TEMPORARY DRIVEWAY CLOSURE IS NECESSARY, IT SHALL BE PERMITTED IN ACCORDANCE WITH THE SPECIAL PROVISION FOR ITEM #0971001A – MAINTENANCE AND PROTECTION OF TRAFFIC.
3. THE CONTRACTOR SHALL CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION STAGING PLAN (STG–01) AND THE SPECIAL PROVISION FOR ITEM #0971001A – MAINTENANCE AND PROTECTION OF TRAFFIC AND AS LIMITED IN THE SPECIAL PROVISION FOR SEC. 1.08 – PROSECUTION AND PROGRESS.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO PERFORM ANY WORK THAT WILL INTERFERE WITH THE "STUDENT MOVE–IN" PERIOD (MAY 31 THRU JUNE 7) OR GRADUATION CEREMONIES (AUGUST 28 THRU SEPTEMBER 4) FOR AVON OLD FARMS SCHOOL.
5. THE CONTRACTOR WILL BE ALLOWED TO PERFORM WORK DAILY MONDAY THRU FRIDAY BETWEEN 7:00 AM AND 4:00 PM AND AS ALLOWED IN SEC. 1.08 – PROSECUTION AND PROGRESS.

MAINTENANCE AND PROTECTION OF TRAFFIC

1. THE CONTRACTOR SHALL MAINTAIN AND PROTECT TRAFFIC AS DESCRIBED IN THE SPECIAL PROVISION FOR ITEM #0971001A – MAINTENANCE AND PROTECTION OF TRAFFIC.
2. THE CONTRACTOR SHALL MAINTAIN AND PROTECT A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON ALL ROADWAYS UNLESS OTHERWISE ALLOWED DURING THE ALLOWABLE PERIODS.
3. DURING STAGE 2 CONSTRUCTION, THE CONTRACTOR WILL BE ALLOWED TO TEMPORARILY DETOUR TRAFFIC AND CLOSE SCOVILLE ROAD TO THRU TRAFFIC TO COMPLETE STAGE 2 CONSTRUCTION OF SCOVILLE ROAD, SHARED–USE PATH, AND THE ROUNDABOUT, AS SHOWN ON THE DETOUR PLAN (DTR–01).
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE TOWN OF AVON AT LEAST 14 DAYS IN ADVANCE OF IMPLEMENTING THE DETOUR. THE CONTRACTOR WILL BE REQUIRED TO REMOVE THE DETOUR AND RE–OPEN SCOVILLE ROAD AS IDENTIFIED IN SEC. 1.08 – PROSECUTION AND PROGRESS.
5. ACCESS FOR EMERGENCY VEHICLES SHALL BE PROVIDED AT ALL TIMES.
6. PEDESTRIAN ACCESS TO THE NEW SHARED–USE PATH AND/OR NEW SIDEWALK AREAS SHALL BE PROHIBITED FOR THE ENTIRE DURATION OF CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND/OR TOWN OF AVON.

NATURAL DIVERSITY DATABASE (NDDB) REQUIREMENTS

1. THE STATE LISTED SPECIES OF SPECIAL CONCERN EASTERN BOX TURTLE IS PRESENT WITHIN THE PROJECT LIMITS. ALL CONSTRUCTION ACTIVITIES WILL NEED TO BE COORDINATED WITH CTDOT OFFICE OF ENVIRONMENTAL PLANNING (OEP) THROUGH THE ENGINEER.
2. THE CONTRACTOR SHALL HIRE A QUALIFIED HERPETOLOGIST TO WORK ON SITE DURING THE PROJECT CONSTRUCTION PERIOD TO BE SURE THAT TURTLES WILL NOT BE UNINTENTIONALLY KILLED DURING THE MOVING OF HEAVY EQUIPMENT AND TREE CLEARING. THIS IS ESPECIALLY IMPORTANT IN MAY, JUNE AND JULY WHEN TURTLES ARE CHOOSING NEST SITES.
3. THE CONTRACTOR SHALL FOLLOW BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH SEC. 1.10 – ENVIRONMENTAL COMPLIANCE.

ENVIRONMENTAL PERMIT REQUIREMENTS

1. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE CONNECTICUT DEEP STORMWATER AND DEWATERING WASTEWATER FROM CONSTRUCTION ACTIVITIES GENERAL PERMIT PROCESS. THE TOWN OF AVON HAS SUBMITTED INFORMATION TO THE DEEP TO SATISFY THIS GENERAL PERMIT. THE CONTRACTOR MUST HAVE A COPY OF THIS GENERAL PERMIT ON SITE AT ALL TIMES.

EROSION AND SEDIMENT CONTROL

1. ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH SEC. 1.10 – ENVIRONMENTAL COMPLIANCE AND SHALL ALSO FOLLOW REQUIRED BEST MANAGEMENT PRACTICES (BMP'S) AND SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE 2002 EROSION & SEDIMENTATION CONTROL GUIDELINES AND THE 2004 STORMWATER MANUAL.
2. IT IS IMPORTANT THAT PROPER EROSION AND SEDIMENTATION CONTROLS BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THIS PROJECT. CARE SHALL BE EXERCISED SO AS NOT TO INCREASE TURBIDITY LEVELS. AS A BEST MANAGEMENT PRACTICE, ANY UNCONFINED INSTREAM WORK SHOULD BE RESTRICTED TO THE PERIOD FROM JUNE 1 TO SEPTEMBER 30, INCLUSIVE.
3. INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE. REFER TO THE EROSION AND SEDIMENT CONTROL DRAWINGS.
4. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
5. PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.
6. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.
7. CONTRACTOR SHALL MAINTAIN ANY EROSION CONTROL MEASURES DURING THE ENTIRE CONSTRUCTION PERIOD.
8. ANY SEDIMENT TRACKED ONTO THE PUBLIC RIGHT–OF–WAYS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
9. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF SITE.
10. SITE ELEMENTS TO REMAIN MUST BE PROTECTED FOR DURATION OF PROJECT.
11. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
12. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS. AN ANTI–TRACKING PAD SHALL BE INSTALLED AT ALL CONSTRUCTION ACCESS POINTS ADJACENT TO EXISTING ROADWAYS AND/OR DRIVEWAYS.
13. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING WETLAND LOCATED OUTSIDE THE LIMIT OF WORK AND OFF PROPERTY.

WETLAND CONSTRUCTION NOTES

1. THE TOWN OF AVON PLANNING & COMMUNITY DEVELOPMENT SPECIALIST, EMILY KYLE, MUST BE NOTIFIED 48 HOURS IN ADVANCE OF ANY WORK WITHIN THE REGULATED AREA.
2. A PRECONSTRUCTION MEETING SHALL BE HELD BEFORE INITIATING CONSTRUCTION. THE PRECONSTRUCTION MEETING SHALL BE ATTENDED BY THE TOWN OF AVON PLANNING & COMMUNITY DEVELOPMENT SPECIALIST, THE DESIGNATED PROFESSIONAL WETLAND SCIENTIST, ENGINEER, CONTRACTOR, LANDSCAPE SUBCONTRACTOR, AND ANY OTHER SUBCONTRACTOR INVOLVED IN THE RESTORATION ACTIVITY. THIS MEETING SHALL BE HELD NO SOONER THAN 2 WEEKS BEFORE THE WETLAND ACTIVITIES ARE TO BEGIN.
3. EROSION CONTROLS SHALL BE INSTALLED PER EROSION CONTROL PLAN, REPAIRED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD OF WETLAND IMPACT AND UNTIL THE SITE IS FULLY STABILIZED. EROSION CONTROLS SHALL THEN BE REMOVED FROM THE SITE.
4. A WETLAND SCIENTIST SHALL BE ON SITE TO MONITOR PLANTING AND GRADING OF THE WETLAND RESTORATION AREA TO ENSURE COMPLIANCE WITH APPROVED PLANS.
5. GRADING LINES DEPICTED ON THE PLAN ARE DRAWN SMOOTHLY. ACTUAL SURFACE GRADES ACROSS WETLAND 'FLOOR' SHALL REFLECT HUMMOCK AND HOLLOW TOPOGRAPHY OF NATURAL WETLANDS.
6. WETLAND RESTORATION AREAS SHOULD BE EXCAVATED TO NATIVE WETLAND SOILS (MINERAL OR ORGANIC), WHERE PRESENT AND FEASIBLE.
7. PEAT SOILS ENCOUNTERED DURING EXCAVATION MAY BE LEFT IN PLACE. IF TEMPORARY STOCKPILING OF WETLAND SOIL IS NECESSARY, MATERIAL MUST BE COVERED TO PREVENT LEACHING, MOISTURE LOSS AND SEDIMENT TRANSPORT.
8. NO SOIL AMENDMENT SHALL BE APPLIED OR ADDED UNLESS DIRECTED BY A PROFESSIONAL WETLAND SCIENTIST AND APPROVED BY THE ENGINEER.
9. FINAL SUB–GRADES SHALL BE REVIEWED AND APPROVED BY A PROFESSIONAL WETLAND SCIENTIST AFTER REVIEW OF SEASONAL, LOCAL HIGH GROUNDWATER MONITORING DATA AND FIELD CONDITIONS. MODIFICATIONS OF FINAL GRADES MAY BE MADE IN THE FIELD AS DIRECTED BY A PROFESSIONAL WETLAND SCIENTIST AND APPROVED BY THE ENGINEER.
10. COMPACTION OF SOILS IN THE WETLAND RESTORATION AREAS SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE BY THE USE OF LOW–GROUND PRESSURE MACHINERY.
11. SHOULD COMPACTION OCCUR, SOILS SHALL BE TILLED OR DISKED IN TWO DIRECTIONS TO RE–FRACTURE A MINIMUM OF TWELVE (12) INCHES BELOW FINISHED GRADE.
12. WHERE CALL FOR, RESTORATION AREAS SHALL BE SEEDED IMMEDIATELY FOLLOWING PLACEMENT AND FINAL GRADING INCLUDING MICROTOPOGRAPHY. SPRING SEEDING SHOULD OCCUR AFTER THE GROUND THAWS AND BEFORE JUNE 30. FALL SEEDING SHOULD OCCUR AFTER OCTOBER 15 AND BEFORE THE SOIL FREEZES.
13. UPLAND REVIEW AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIAL PROVISION FOR ITEM #0950040A – CONSERVATION SEEDING FOR SLOPES.

CONSTRUCTION LAYOUT

1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS–OF–WAY.
3. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.

EARTHWORK

1. NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION. "CALL BEFORE YOU DIG" AT 811 OR 1–800–922–4455.
2. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.

UTILITIES

1. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
2. THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.

GRADING, DRAINAGE AND UTILITY NOTES

1. UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES, ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "CALL BEFORE YOU DIG" AT 811 TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE WORK WHICH WOULD BE AFFECTED.
3. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES, GRADES AND OTHER SPECIFIC REQUIREMENTS OR SPECIFICATIONS FOR THE PROJECT AS SHOWN ON THE PLANS.
4. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.:
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
40' 20' 0 40'
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
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TOWN OF AVON

GENERAL NOTES

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

GEN-01

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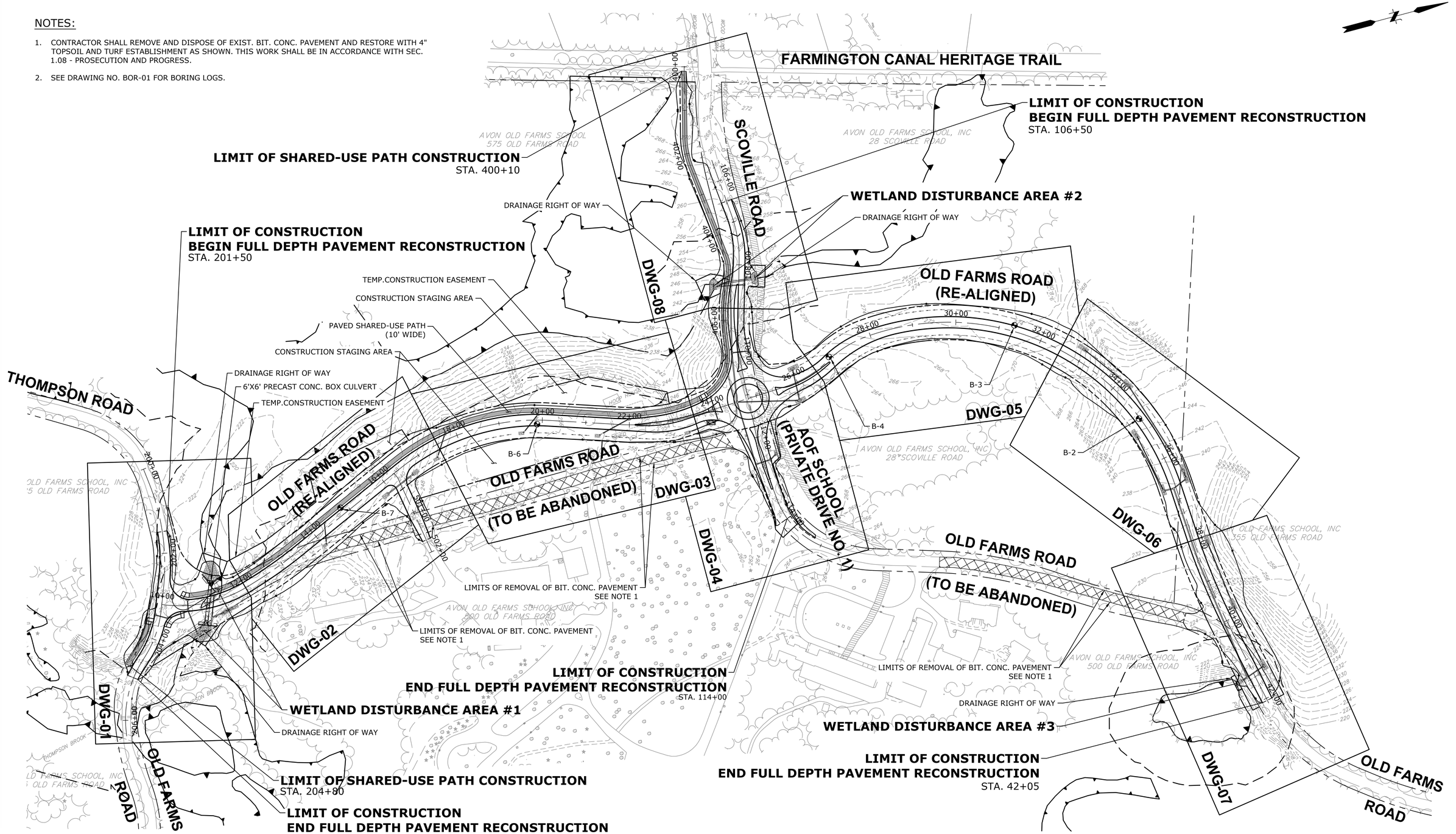
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: N/A LAYER STATE: N/A

NOTES:

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXIST. BIT. CONC. PAVEMENT AND RESTORE WITH 4" TOPSOIL AND TURF ESTABLISHMENT AS SHOWN. THIS WORK SHALL BE IN ACCORDANCE WITH SEC. 1.08 - PROSECUTION AND PROGRESS.

2. SEE DRAWING NO. BOR-01 FOR BORING LOGS.



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 100'
VERT.:
DATUM:
HORZ.: NAD83
VERT.: NAVD88
100 50 0 100
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
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TOWN OF AVON

INDEX PLAN & BORING LOCATIONS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

IND-01

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE: IND-01
MS VIEW: IND-01

NOTES:

1. SEE DRAWING NO. IND-01 FOR BORING LOCATIONS.

BORING NO. B-2

OLD FARMS RD (RE-ALIGNED) - STA. 34+92.02, 2.4' RT

Client: Fuss & Oneill				SEABOARD DRILLING, INC.	Test Boring/ Monitor Well ID: B-2
Location: Old Farm Road Avon, Ct				649 Meadow St., Chicopee, MA 01013	
Project: Old Farms Rd North-South				DRILLING/SOIL LOG	Sheet No. 1 of 1
Contractor: Seaboard Drilling, Inc.				Hammer (Weight-lb./fall-30")	Start: 6/2/2021
	Casing		Core Barrel	140/30 300/24	Finish: 6/2/2021
Type	HSA	SS	N/A	Rig Type: Diedrich D-25	Driller: Doug Feeley
O.D. Inch	8-1/2"				
I.D. Inch	4-1/4"				

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0-3'	flight sample			Dark Topsoil (moist 4") Brown fine SAND and Silt into brown/red med to coarse SAND, little Gravel, little fine Sand, trace Silt (no water)
3-6'	flight sample			Brown/Red fine to coarse SAND, some Gravel, trace Silt (wt @ 5')
				End of exploration@ 6'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING NO. B-3

OLD FARMS RD (RE-ALIGNED) - STA. 31+32.61, 13.9' LT

Client: Fuss & Oneill				SEABOARD DRILLING, INC.	Test Boring/ Monitor Well ID: B-3
Location: Old Farm Road Avon, Ct				649 Meadow St., Chicopee, MA 01013	
Project: Old Farms Rd North-South				DRILLING/SOIL LOG	Sheet No. 1 of 1
Contractor: Seaboard Drilling, Inc.				Hammer (Weight-lb./fall-30")	Start: 6/2/2021
	Casing		Core Barrel	140/30 300/24	Finish: 6/2/2021
Type	HSA	SS	N/A	Rig Type: Diedrich D-25	Driller: Doug Feeley
O.D. Inch	8-1/2"				
I.D. Inch	4-1/4"				

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0-3'	flight sample			Dark Topsoil (moist 7") Brown med to coarse SAND, some Gravel, little fine Sand, trace Silt
3-6'	flight sample			(no water no strata change) Brown/Red fine to coarse SAND, some Gravel, trace Silt (no water)
				End of exploration@ 6'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING NO. B-4

OLD FARMS RD (RE-ALIGNED) - STA. 26+93.43, 5.0' LT

Client: Fuss & Oneill				SEABOARD DRILLING, INC.	Test Boring/ Monitor Well ID: B-4
Location: Old Farm Road Avon, Ct				649 Meadow St., Chicopee, MA 01013	
Project: Old Farms Rd North-South				DRILLING/SOIL LOG	Sheet No. 1 of 1
Contractor: Seaboard Drilling, Inc.				Hammer (Weight-lb./fall-30")	Start: 6/2/2021
	Casing		Core Barrel	140/30 300/24	Finish: 6/2/2021
Type	HSA	SS	N/A	Rig Type: Diedrich D-25	Driller: Doug Feeley
O.D. Inch	8-1/2"				
I.D. Inch	4-1/4"				

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0-3'	flight sample			Brown med SANDS, trace Gravel, trace Silt (no water)
3-6'	flight sample			Brown/Red med to coarse SAND and Gravel, little fine Sand, traceSilt
				No water or strata change End of exploration@ 6'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING NO. B-6

OLD FARMS RD (RE-ALIGNED) - STA. 19+87.89, 9.5' RT

Client: Fuss & Oneill				SEABOARD DRILLING, INC.	Test Boring/ Monitor Well ID: B-6
Location: Old Farm Road Avon, Ct				649 Meadow St., Chicopee, MA 01013	
Project: Old Farms Rd North-South				DRILLING/SOIL LOG	Sheet No. 1 of 1
Contractor: Seaboard Drilling, Inc.				Hammer (Weight-lb./fall-30")	Start: 6/2/2021
	Casing		Core Barrel	140/30 300/24	Finish: 6/2/2021
Type	HSA	SS	N/A	Rig Type: Diedrich D-25	Driller: Doug Feeley
O.D. Inch	8-1/2"				
I.D. Inch	4-1/4"				

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0-3'	flight sample			Brown med SANDS, some fine to coarse Sand,trace Gravel, trace Silt (no strata change no water)
3-6'	flight sample			Brown med to coarse SAND and Gravel, some fine Sand, trace Silt
				No water or strata change End of exploration@ 6'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

BORING NO. B-7

OLD FARMS RD (RE-ALIGNED) - STA. 14+85.13, 16.3' LT

Client: Fuss & Oneill				SEABOARD DRILLING, INC.	Test Boring/ Monitor Well ID: B-7
Location: Old Farm Road Avon, Ct				649 Meadow St., Chicopee, MA 01013	
Project: Old Farms Rd North-South				DRILLING/SOIL LOG	Sheet No. 1 of 1
Contractor: Seaboard Drilling, Inc.				Hammer (Weight-lb./fall-30")	Start: 6/2/2021
	Casing		Core Barrel	140/30 300/24	Finish: 6/2/2021
Type	HSA	SS	N/A	Rig Type: Diedrich D-25	Driller: Doug Feeley
O.D. Inch	8-1/2"				
I.D. Inch	4-1/4"				

Depth (ft.) Range	Blows	Sample No.	Recovery	FIELD CLASSIFICATIONS AND REMARKS
0-3'	flight sample			0-5" Topsoil Brown fine to coarse SAND, little Gravel, little Silt (no strata change no water)
3-6'	flight sample			Brown fine to med SAND, some coarse Sand, trace Gravel
				No water or strata change End of exploration@ 6'

SAMPLE PENETRATION RESISTANCE - 140 lb. Wt. Falling 30" on 2" O.D. sampler

Density (# Hammer Blows)		Cohesive Consistence (# Hammer Blows)				PROPORTIONS	
0-4	Very Loose	0-2	Very Soft	3-4	Soft	Trace	0 to 10%
5-9	Loose	5-8	Medium-Stiff	9-15	Stiff	Little	10 to 20%
10-29	Medium-Dense	16-30	Very Stiff	31+	Hard	Some	20 to 35%
30-49	Dense					and	30 to 50%
50+	Very Dense						

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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VERT.: N/A
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VERT.:
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GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
860.646.2469
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TOWN OF AVON

BORING LOGS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

BOR-01

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_BOR01.dwg Layout: BOR-01 Plotted: Wed, March 01, 2023 - 8:43 AM User: sbearce
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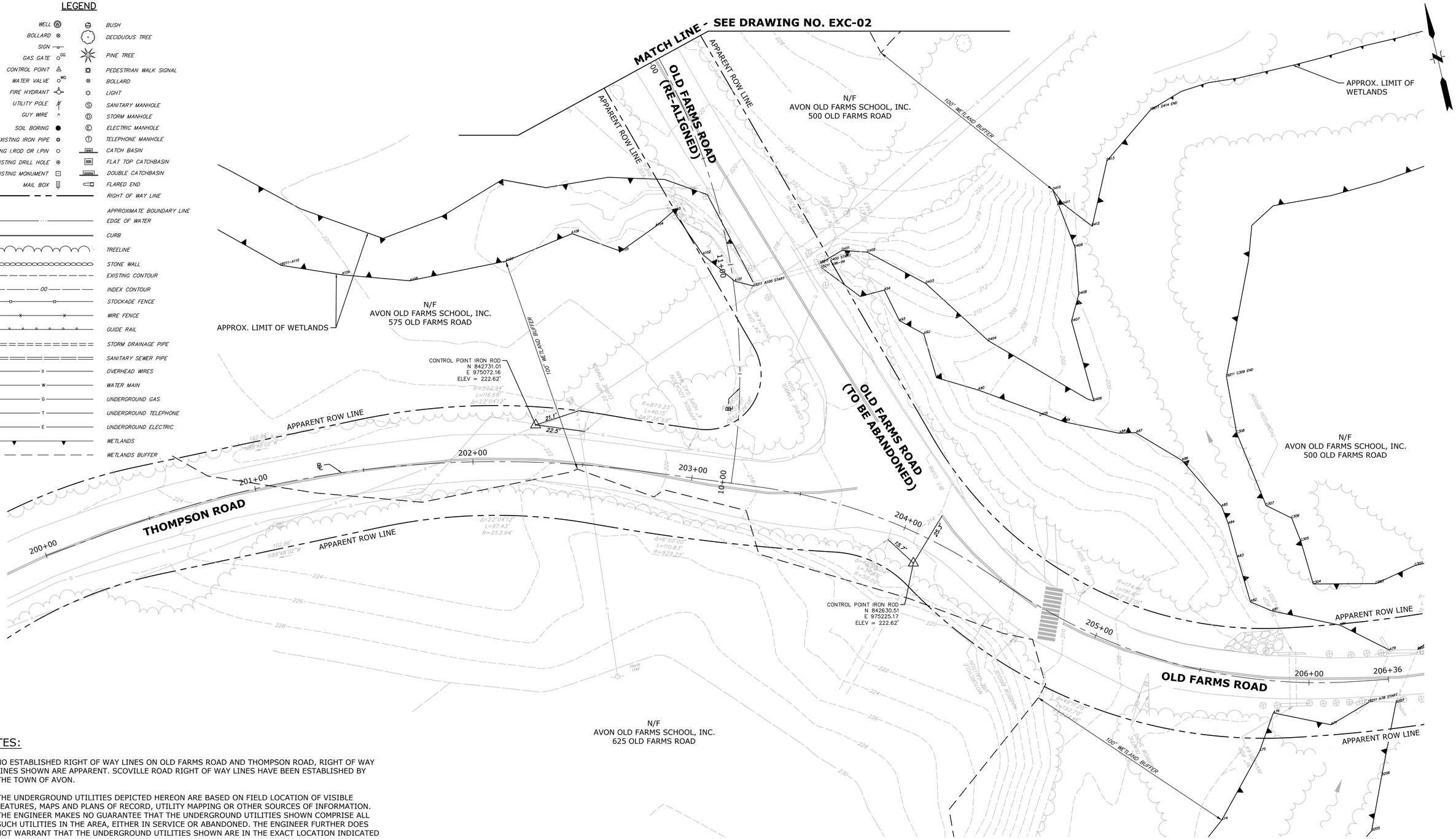
MS VIEW: LAYER STATE:

LEGEND

- WELL
- BOLLARD
- SIGN
- GAS GATE
- CONTROL POINT
- WATER VALVE
- FIRE HYDRANT
- UTILITY POLE
- GUY WIRE
- SOIL BORING
- EXISTING IRON PIPE
- EXISTING I.ROD OR I.PIN
- EXISTING DRILL HOLE
- EXISTING MONUMENT
- MAIL BOX
- BUSH
- DECIDUOUS TREE
- PINE TREE
- PEDESTRIAN WALK SIGNAL
- BOLLARD
- LIGHT
- SANITARY MANHOLE
- STORM MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- CATCH BASIN
- FLAT TOP CATCHBASIN
- DOUBLE CATCHBASIN
- FLARED END
- RIGHT OF WAY LINE
- APPROXIMATE BOUNDARY LINE
- EDGE OF WATER
- CURB
- TREELINE
- STONE WALL
- EXISTING CONTOUR
- INDEX CONTOUR
- STOCKADE FENCE
- WIRE FENCE
- GUIDE RAIL
- STORM DRAINAGE PIPE
- SANITARY SEWER PIPE
- OVERHEAD WIRES
- WATER MAIN
- UNDERGROUND GAS
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- WETLANDS
- WETLANDS BUFFER



NOTES:

1. NO ESTABLISHED RIGHT OF WAY LINES ON OLD FARMS ROAD AND THOMPSON ROAD, RIGHT OF WAY LINES SHOWN ARE APPARENT. SCOVILLE ROAD RIGHT OF WAY LINES HAVE BEEN ESTABLISHED BY THE TOWN OF AVON.
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3. SURVEY CONTROL POINTS ALSO SHALL BE UTILIZED FOR BENCHMARK INFORMATION.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SCALE:
HORZ.: 1" = 20'
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HORZ.: NAD 83
VERT.: NAVD 88
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GRAPHIC SCALE

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TOWN OF AVON

EXISTING CONDITIONS PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

EXC-01

File Path: J:\DWG\P2016\20663A30\Civil\Plan\20160663A30_EXC01.DWG Layout: EXC-01 Plotted: Wed, March 01, 2023 - 8:49 AM User: sbearce
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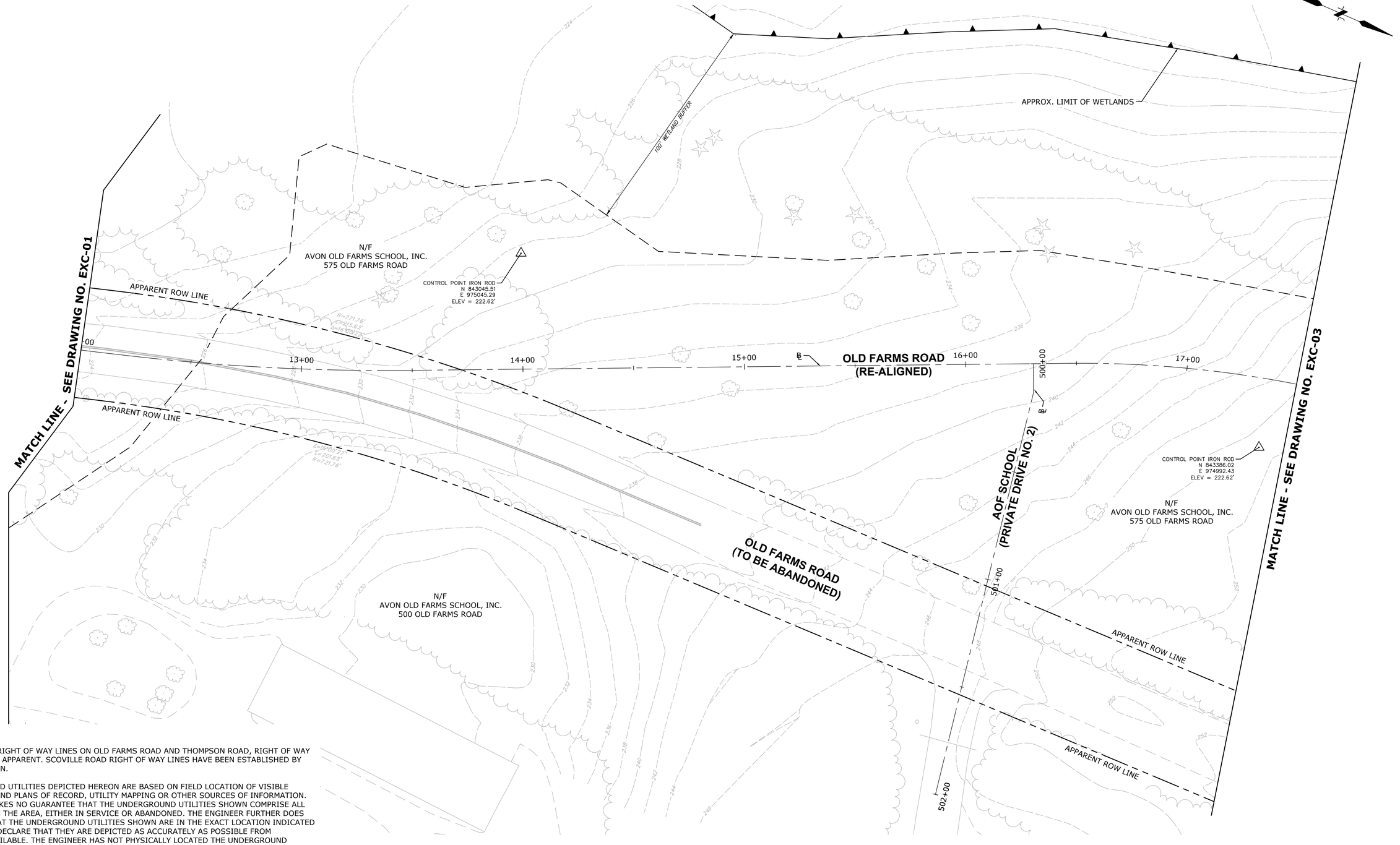

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TOWN OF AVON

EXISTING CONDITIONS PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

EXC-02

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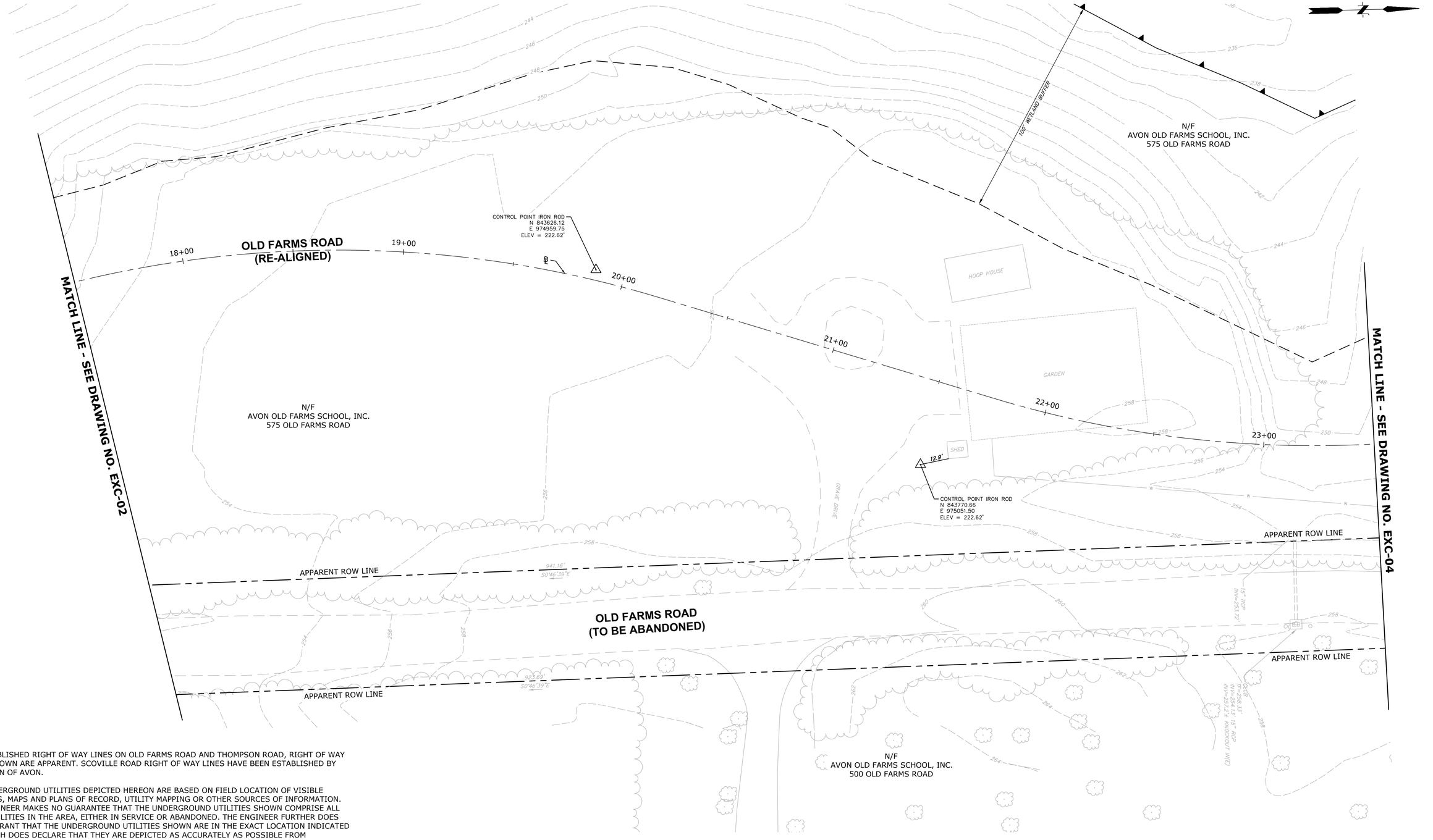

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TOWN OF AVON

EXISTING CONDITIONS PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

EXC-03

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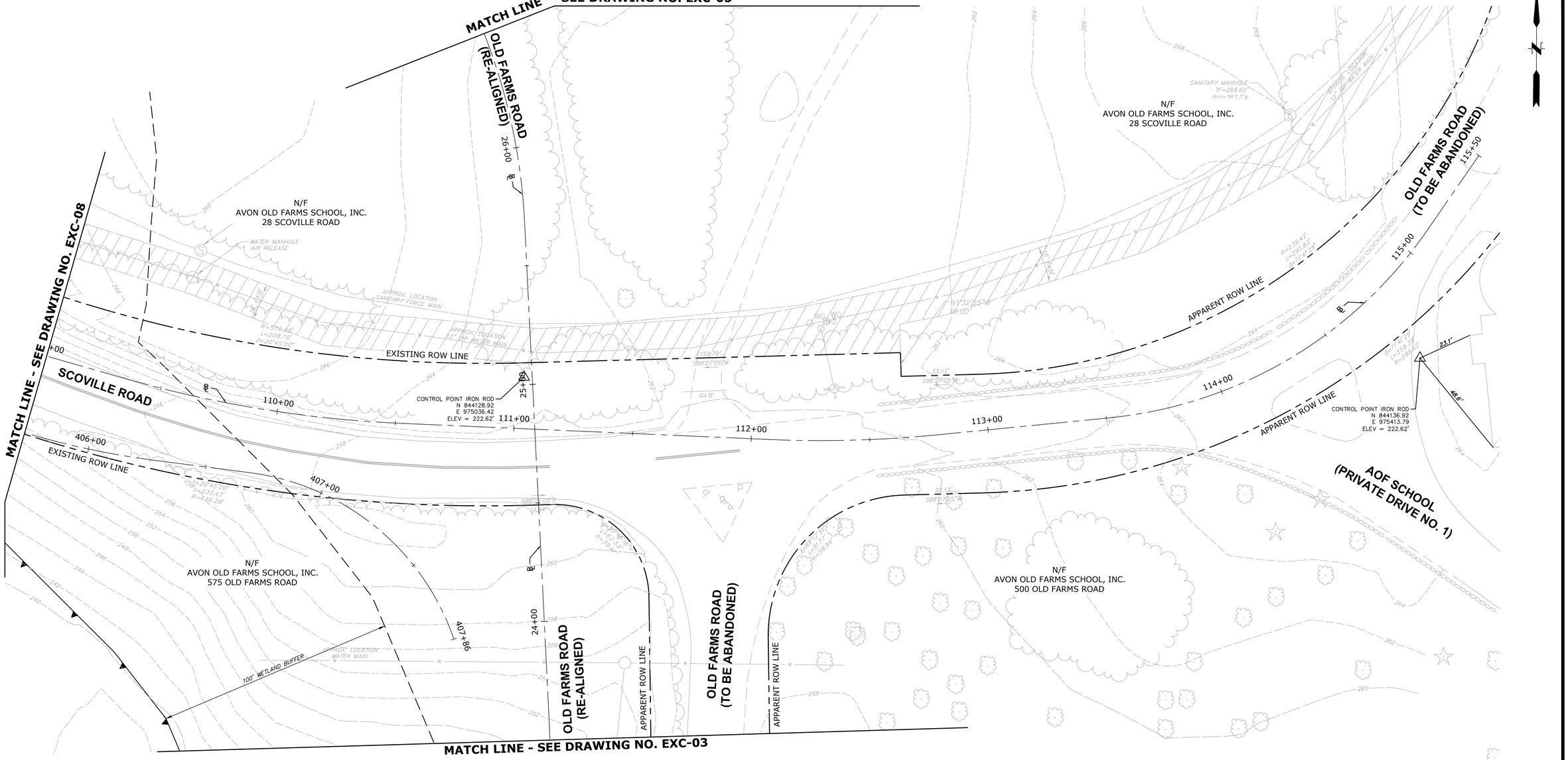

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TOWN OF AVON

EXISTING CONDITIONS PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
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EXC-04

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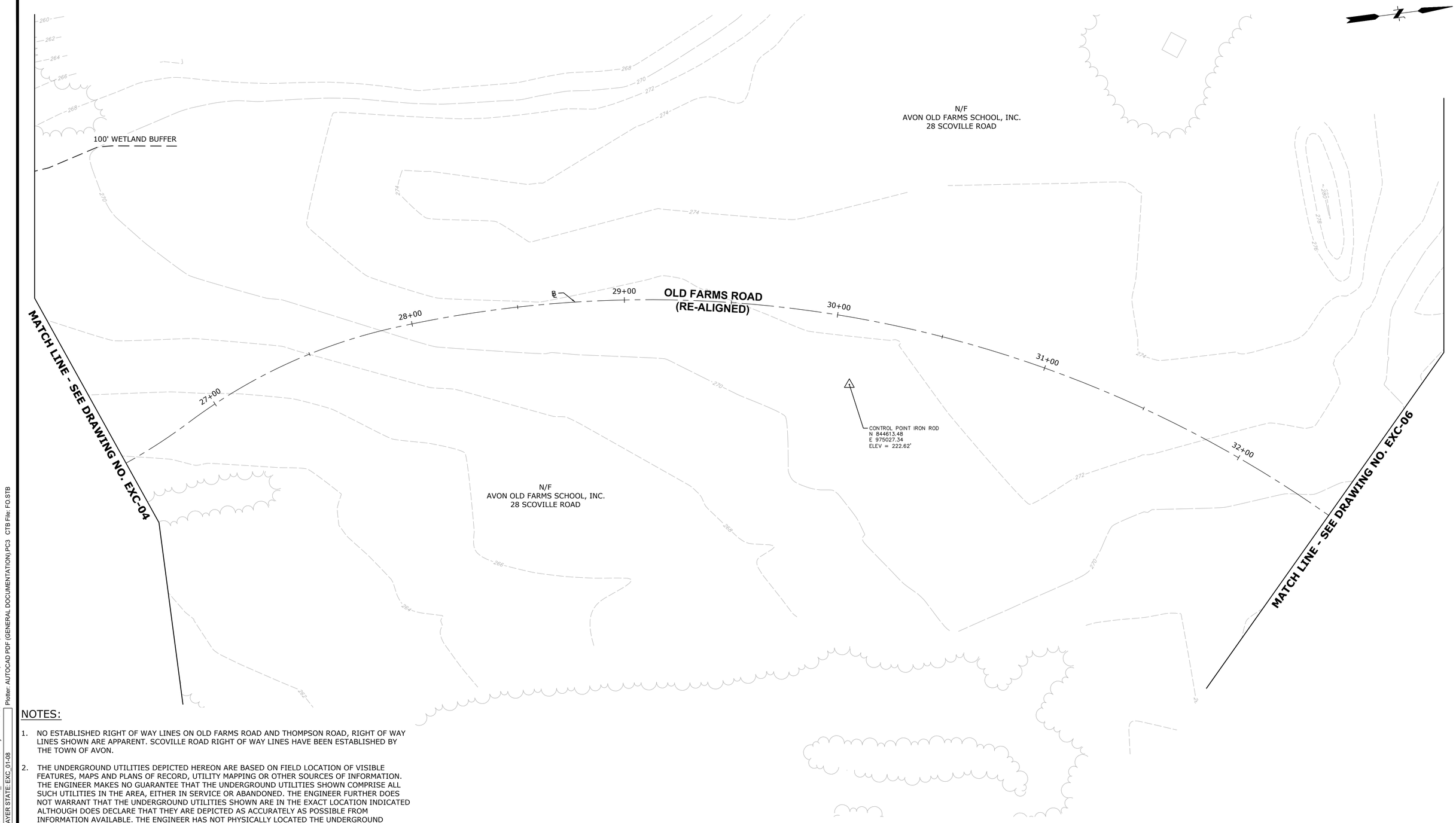

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TOWN OF AVON

EXISTING CONDITIONS PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
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EXC-05

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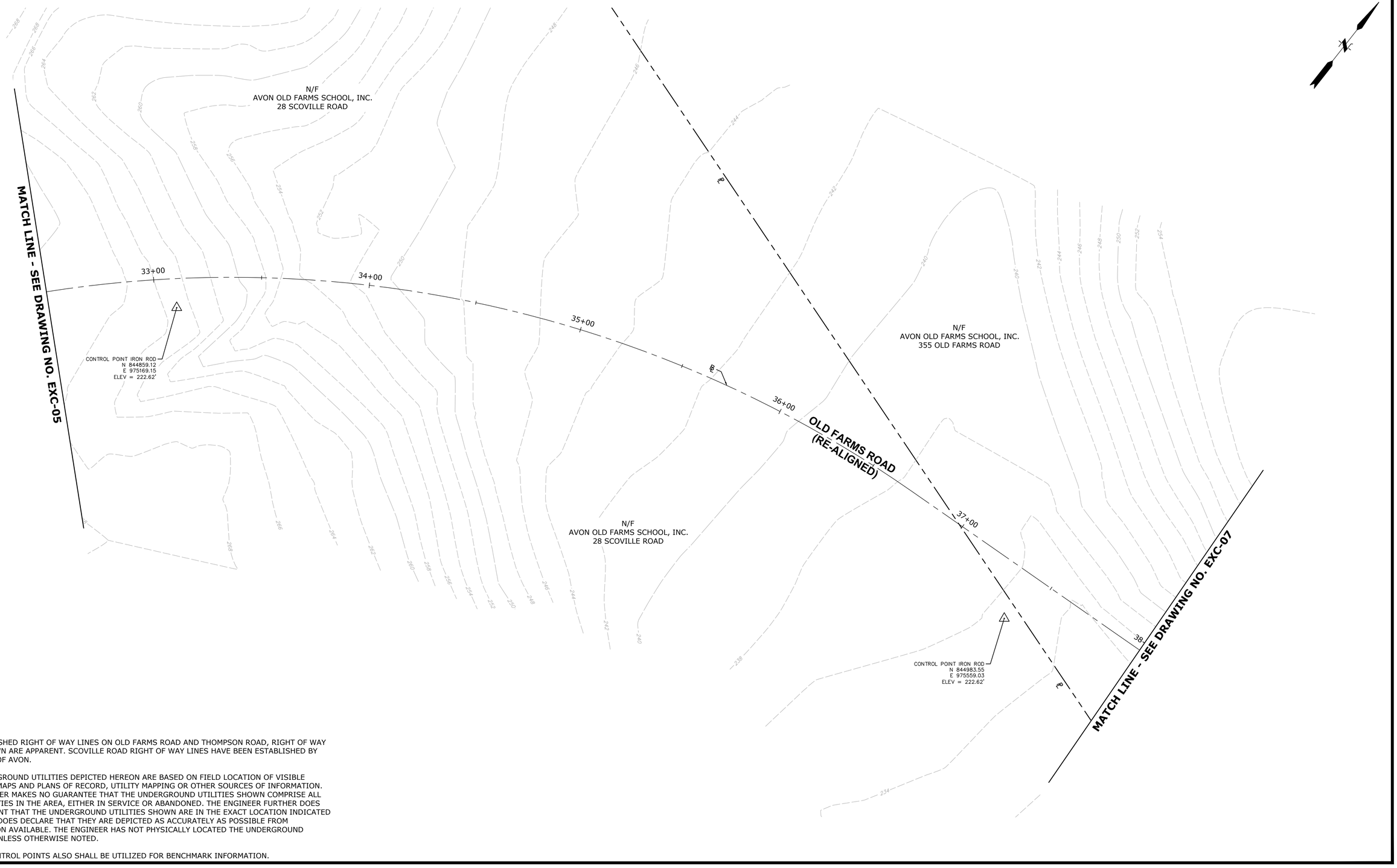

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TOWN OF AVON

EXISTING CONDITIONS PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

EXC-06

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:EXC_01-08
MS VIEW:EXC-06

NOTES:

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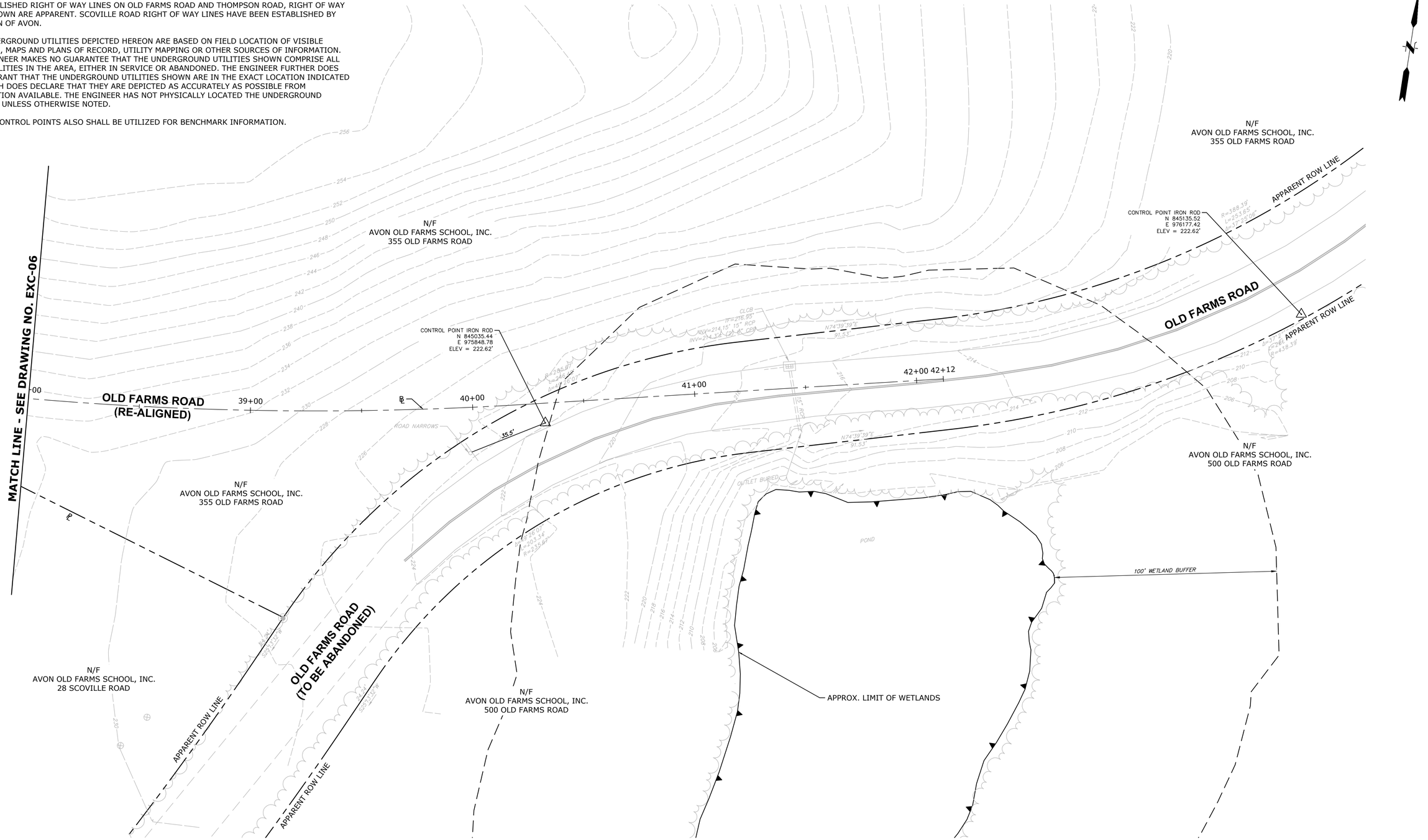

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TOWN OF AVON

EXISTING CONDITIONS PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

EXC-07

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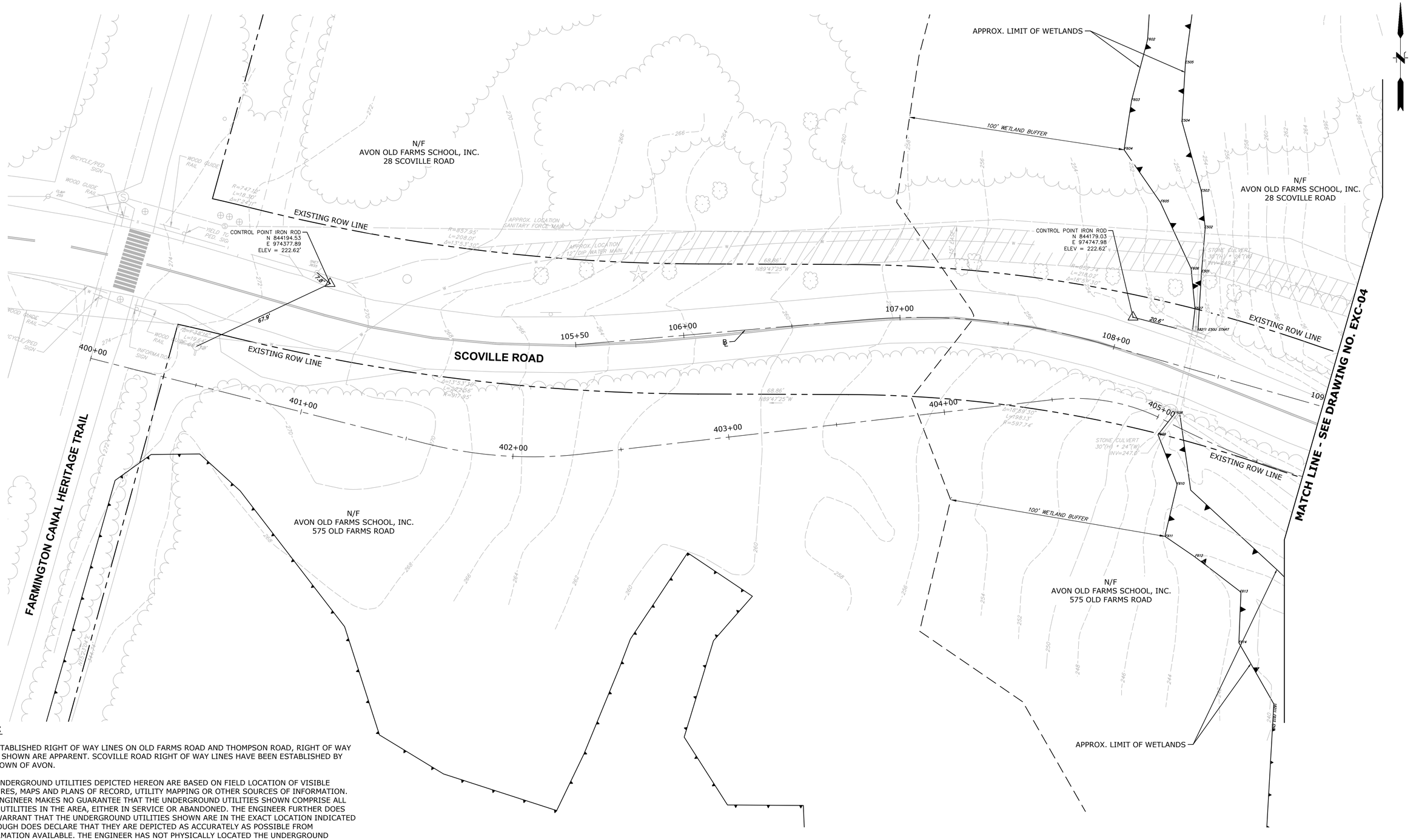

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TOWN OF AVON

EXISTING CONDITIONS PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
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EXC-08

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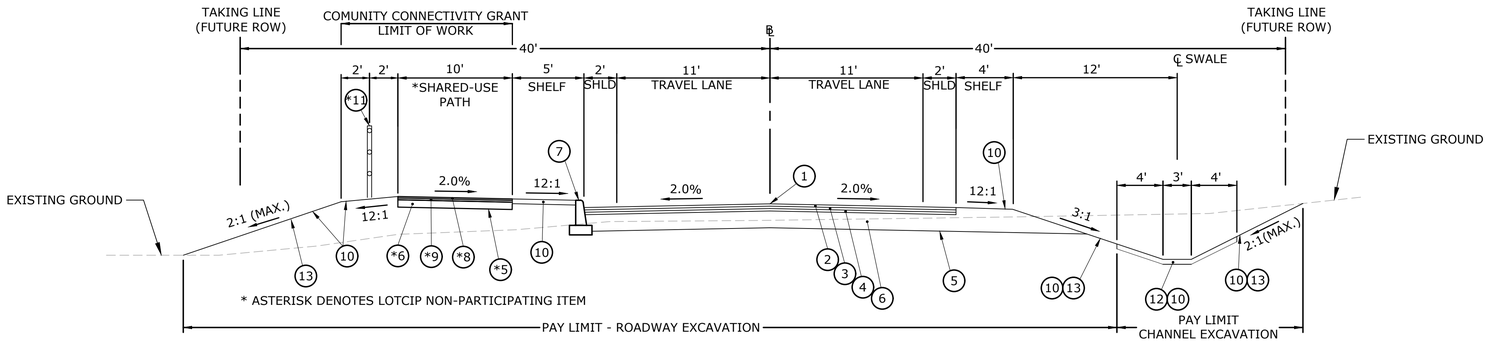
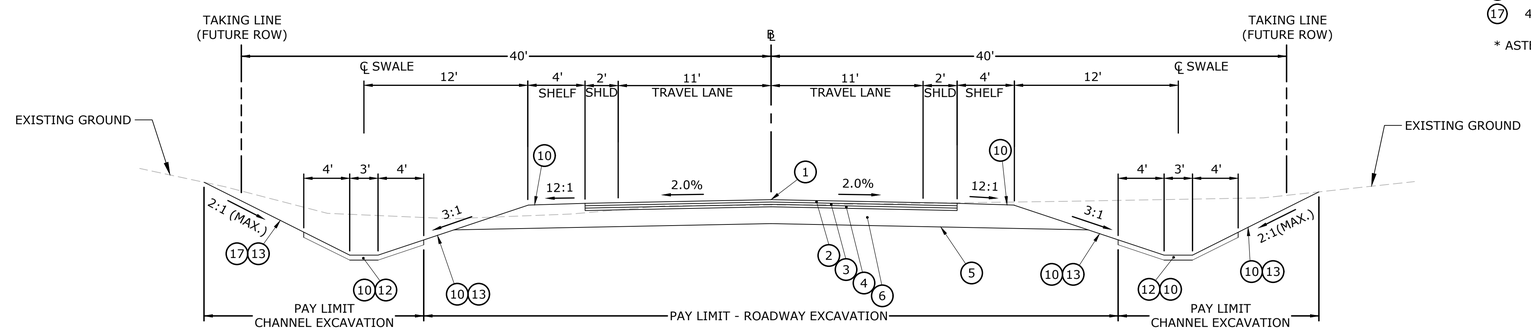


OLD FARMS ROAD (RE-ALIGNED) (FULL DEPTH PAVEMENT RECONSTRUCTION)

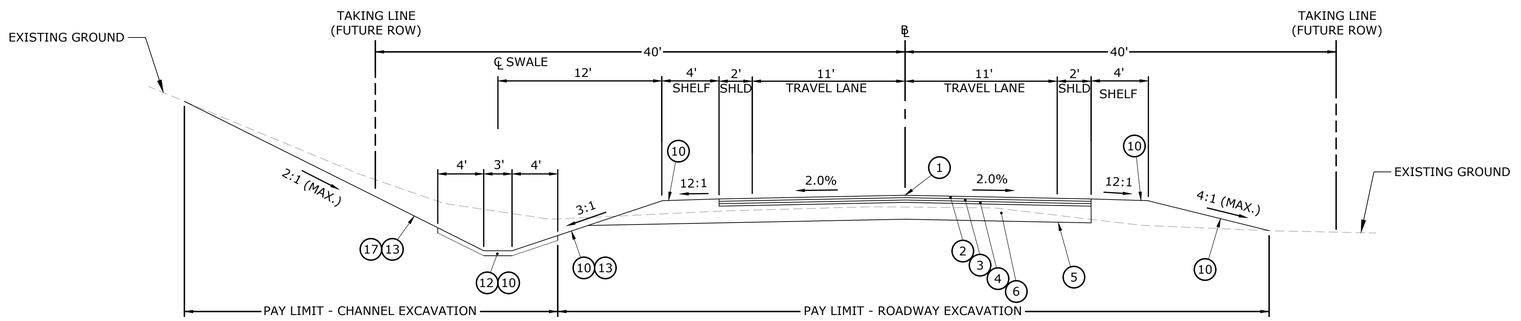
SOUTH OF SCOVILLE ROAD - STA. 10+13 TO STA. 22+13
N.T.S.

***NOTE: SEE SPILTTER ISLAND DETAILS AND ROADWAY CROSS SECTIONS BETWEEN STA. 22+13 AND STA. 26+87**



OLD FARMS ROAD (RE-ALIGNED) (FULL DEPTH PAVEMENT RECONSTRUCTION)

NORTH OF SCOVILLE ROAD - STA. 26+87 TO STA. 37+00
N.T.S.



OLD FARMS ROAD (RE-ALIGNED) (FULL DEPTH PAVEMENT RECONSTRUCTION)

NORTH OF ROUNDABOUT - STA. 37+00 TO STA. 42+05
N.T.S.

LEGEND

1. POINT OF APPLICATION OF GRADE
2. 1.5" PMA S0.375 TRAFFIC LEVEL 2
3. 2" HMA S0.50 TRAFFIC LEVEL 2
4. 2" HMA S0.50 TRAFFIC LEVEL 2
5. FORMATION OF SUBGRADE
6. 9" PROCESSED AGGREGATE BASE (*6" FOR SHARED-USE PATH)
7. CONCRETE CURBING
8. *1.25" HMA S0.375 (TRAFFIC LEVEL 1)
9. *1.5" HMA S0.375 (TRAFFIC LEVEL 1)
10. 4" TOPSOIL AND CONSERVATION SEEDING
11. *THREE RAIL WOOD FENCE
12. TYPE A GRASS-LINED SWALE (SEE CROSS SECTIONS)
13. EROSION CONTROL MATTING TYPE D
14. 6" X 18" GRANITE STONE CURBING
15. 10" STAMPED CONCRETE - TRUCK APRON
16. MOUNTABLE GRANITE STONE CURBING WITH 2" REVEAL
17. 4" TOPSOIL AND WILDFLOWER ESTABLISHMENT

* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: NTS
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
40' 20' 0 40'
GRAPHIC SCALE

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MANCHESTER, CONNECTICUT 06040
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TOWN OF AVON
TYPICAL ROADWAY SECTIONS
REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

TXS-01

File Path: J:\DWG\P2016\20160663\A30\Civil\Plan\20160663A30_TXS01.dwg Layout: TXS-01 Plotted: Wed, March 15, 2023 - 9:36 AM User: sbearce
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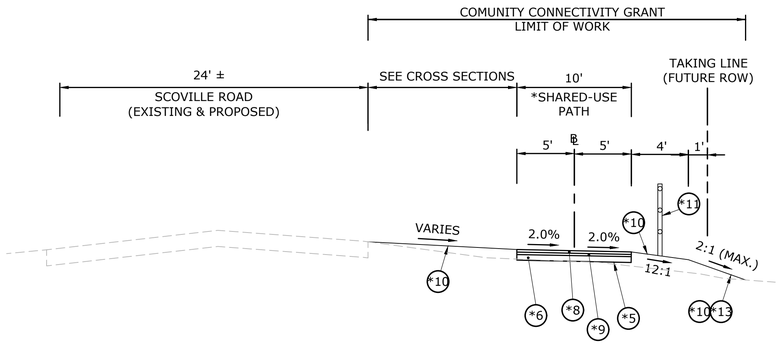
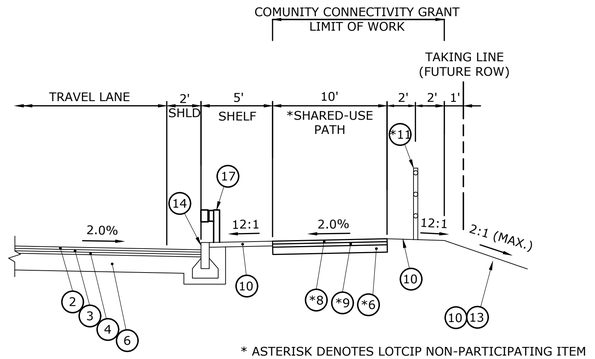


* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM

SHARED-USE PATH (FULL DEPTH PAVEMENT RECONSTRUCTION)
STA. 400+10 TO 405+50
N.T.S.



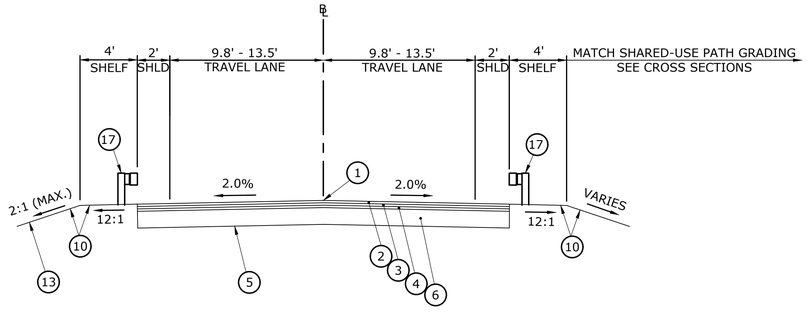
* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM

SHARED-USE PATH (FULL DEPTH PAVEMENT RECONSTRUCTION)
STA. 405+50 TO 407+86
N.T.S.

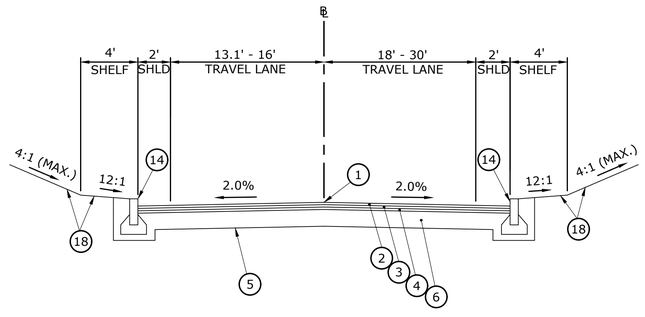
LEGEND

1. POINT OF APPLICATION OF GRADE
2. 1.5" PMA S0.375 TRAFFIC LEVEL 2
3. 2" HMA S0.50 TRAFFIC LEVEL 2
4. 2" HMA S0.50 TRAFFIC LEVEL 2
5. FORMATION OF SUBGRADE
6. 9" PROCESSED AGGREGATE BASE (*6" FOR SHARED-USE PATH)
7. CONCRETE CURBING
8. *1.25" HMA S0.375 (TRAFFIC LEVEL 1)
9. *1.5" HMA S0.375 (TRAFFIC LEVEL 1)
10. 4" TOPSOIL AND TURF ESTABLISHMENT
11. *THREE RAIL WOOD FENCE
12. TYPE A GRASS-LINED SWALE (SEE MDS SHEETS)
13. EROSION CONTROL MATTING TYPE D
14. 6" X 18" GRANITE STONE CURBING
15. 10" STAMPED CONCRETE - TRUCK APRON
16. MOUNTABLE GRANITE STONE CURBING WITH 2" REVEAL
17. STEEL-BACKED TIMBER GUIDERAIL
    - * SCOVILLE ROAD STA. 107+50 LT TO 109+95 LT
    - * SCOVILLE ROAD STA. 106+00 RT TO OLD FARMS ROAD (RE-ALIGNED) STA. 23+93 LT
18. 6" TOPSOIL AND TURF ESTABLISHMENT - LAWN

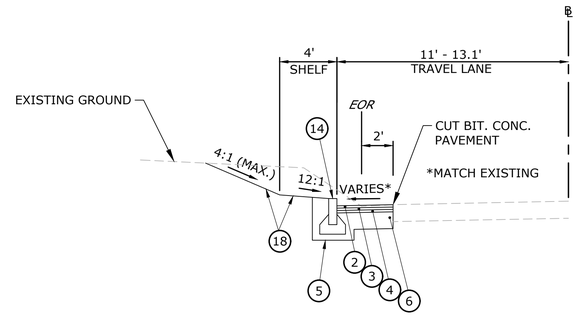
* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM



SCOVILLE ROAD (FULL DEPTH PAVEMENT RECONSTRUCTION)
WEST OF OLD FARMS ROAD (RE-ALIGNED) - STA. 106+50 TO 108+45
N.T.S.



AVON OLD FARMS SCHOOL - PRIVATE DRIVE NO. 1 (FULL DEPTH PAVEMENT RECONSTRUCTION)
EAST OF OLD FARMS ROAD (RE-ALIGNED) - STA. 113+24 TO 114+00
N.T.S.



AVON OLD FARMS SCHOOL - PRIVATE DRIVE NO. 1
PAVEMENT WIDENING - STA. 114+00 LT TO 114+80 LT
N.T.S.

***NOTE: SEE SPILTTER ISLAND DETAILS AND ROADWAY CROSS SECTIONS BETWEEN STA. 108+45 AND STA. 113+24**

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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SCALE:
HORZ.: NTS
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
40' 20' 0 40'
GRAPHIC SCALE

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TOWN OF AVON
TYPICAL ROADWAY SECTIONS
REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

TXS-02

File Path: J:\DWG\P2016\20160663A30\Civil\Plan\20160663A30_TXS01.dwg Layout: TXS-02 Plotted: Wed, March 15, 2023 - 9:36 AM User: sbearce
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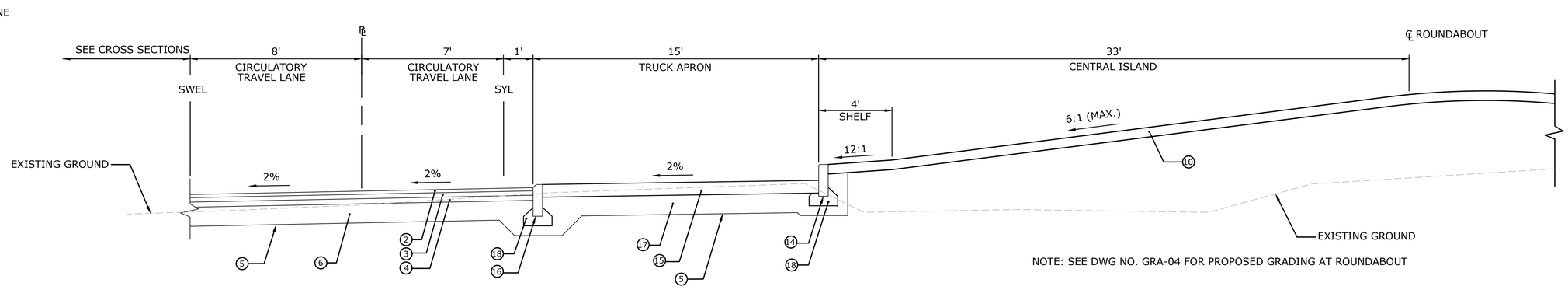
LAYER STATE: N/A
MS VIEW: N/A

LEGEND:

1. POINT OF APPLICATION OF GRADE
2. 1.5" PMA S0.375 TRAFFIC LEVEL 2
3. 2" HMA S0.50 TRAFFIC LEVEL 2
4. 2" HMA S0.50 TRAFFIC LEVEL 2
5. FORMATION OF SUBGRADE
6. 9" PROCESSED AGGREGATE BASE (6" FOR SHARED-USE PATH)
7. CONCRETE CURBING
8. 1.25" HMA S0.375 (TRAFFIC LEVEL 1)
9. 1.5" HMA S0.375 (TRAFFIC LEVEL 1)
10. 6" TOPSOIL AND TURF ESTABLISHMENT - LAWN
11. THREE RAIL WOOD FENCE
12. TYPE A GRASS-LINED SWALE (SEE MDS SHEETS)
13. EROSION CONTROL MATTING TYPE D
14. 6" X 18" GRANITE CURVED STONE CURBING
15. 10" STAMPED CONCRETE - TRUCK APRON
16. MOUNTABLE GRANITE STONE CURBING WITH 2" REVEAL
17. 12" PROCESSED AGGREGATE BASE
18. CLASS PCC03360 - SEE GRANITE STONE CURB SETTING DETAIL

SWEL = SOLID WHITE EDGE LINE

SYL = SOLID YELLOW LINE



NOTE: SEE DWG NO. GRA-04 FOR PROPOSED GRADING AT ROUNDABOUT

ROUNDABOUT (FULL DEPTH PAVEMENT RECONSTRUCTION)

STA. 0+00 TO 3+52

N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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VERT.:
DATUM:
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VERT.: NAVD 88
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GRAPHIC SCALE

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TOWN OF AVON

TYPICAL ROADWAY SECTIONS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

TXS-03

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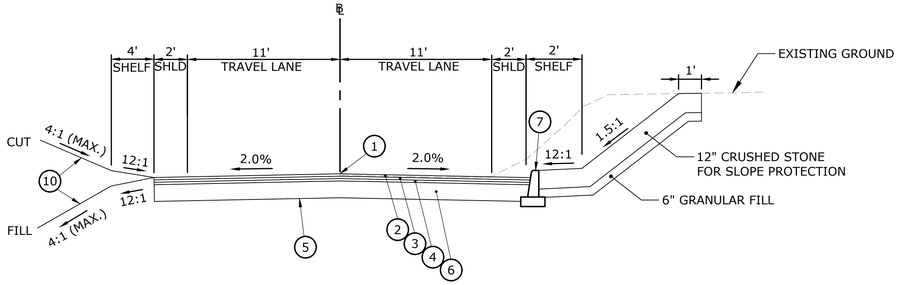
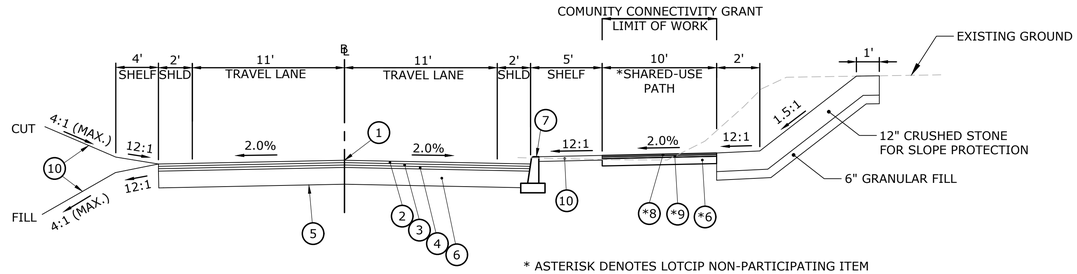


THOMPSON ROAD (FULL DEPTH PAVEMENT RECONSTRUCTION)
STA. 201+50 TO STA. 203+46
STA. 204+80 TO STA. 205+00
N.T.S.



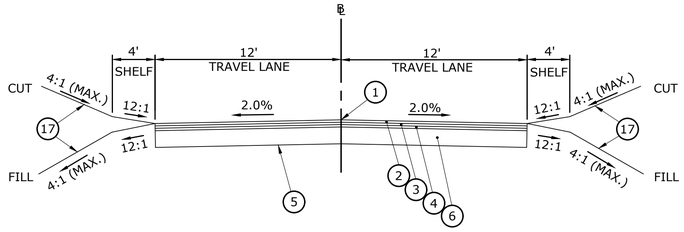
* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM

LEGEND

1. POINT OF APPLICATION OF GRADE
2. 1.5" PMA S0.375 TRAFFIC LEVEL 2
3. 2" HMA S0.50 TRAFFIC LEVEL 2
4. 2" HMA S0.50 TRAFFIC LEVEL 2
5. FORMATION OF SUBGRADE
6. 9" PROCESSED AGGREGATE BASE (*6" FOR SHARED-USE PATH)
7. CONCRETE CURBING
8. *1.25" HMA S0.375 (TRAFFIC LEVEL 1)
9. *1.5" HMA S0.375 (TRAFFIC LEVEL 1)
10. 4" TOPSOIL AND CONSERVATION SEEDING
11. *THREE RAIL WOOD FENCE
12. TYPE A GRASS-LINED SWALE (SEE MDS SHEETS)
13. EROSION CONTROL MATTING TYPE D
14. 6" X 18" GRANITE STONE CURBING
15. 10" STAMPED CONCRETE - TRUCK APRON
16. MOUNTABLE GRANITE STONE CURBING WITH 2" REVEAL
17. 6" TOPSOIL AND TURF ESTABLISHMENT - LAWN

* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM

THOMPSON ROAD (FULL DEPTH PAVEMENT RECONSTRUCTION)
STA. 203+46 TO STA. 204+80
N.T.S.



AVON OLD FARMS SCHOOL - PRIVATE DRIVE NO. 2 (FULL DEPTH PAVEMENT RECONSTRUCTION)
STA. 500+13 TO STA. 501+70
N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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40' 20' 0 40'
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TOWN OF AVON
TYPICAL ROADWAY SECTIONS
REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

TXS-04

File Path: J:\DWG\P2016\20160663A30\Civil\Plan\20160663A30_TXS01.dwg Layout: TXS-04 Plotted: Wed, March 15, 2023 - 9:36 AM User: sbearce
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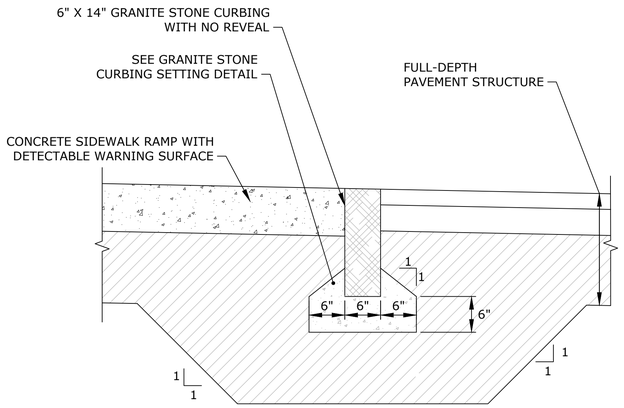


SPLITTER ISLAND GRANITE CURBING FLUSH WITH PAVEMENT (FOR CROSSWALKS ONLY)

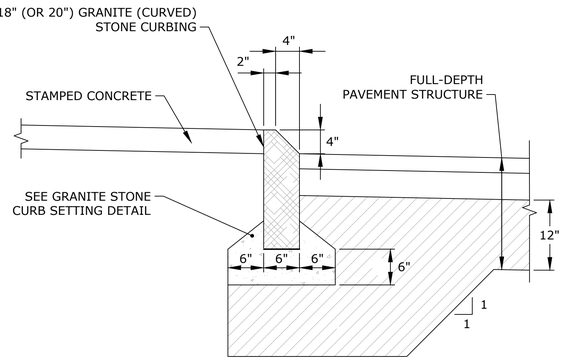
N.T.S.

NOTES:

1. CURB AND BASE MATERIAL TO BE PAID FOR UNDER ITEM NO. 0813040 - 6" X 14" GRANITE STONE CURBING.

NOTES:

1. MOUNTABLE GRANITE STONE CURBING WITH 4" REVEAL CURB AND BASE MATERIAL TO BE PAID FOR UNDER ITEM NO. 0813041 - 6" X 18" GRANITE STONE CURBING OR ITEM NO. 0813052 - 6" X 20" GRANITE CURVED STONE CURBING.

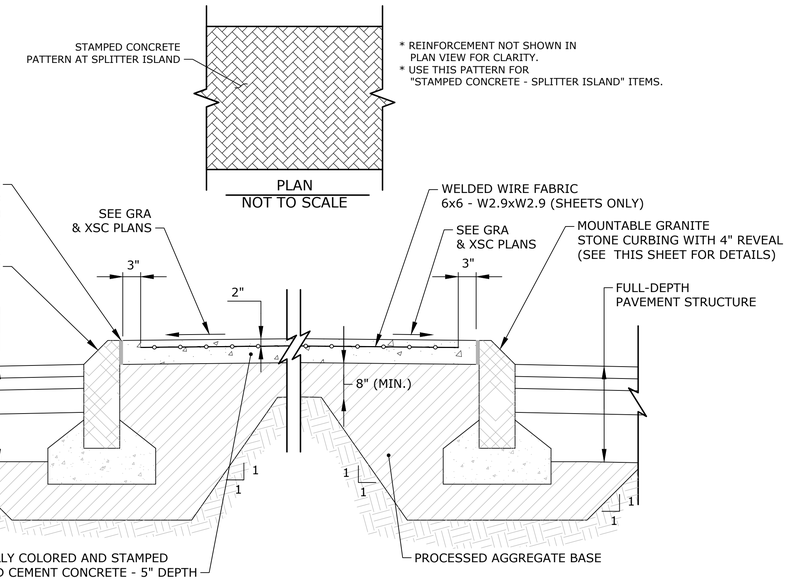


GRANITE STONE CURBING*		
SEGMENT	WIDTH	DEPTH
STRAIGHT	6 IN	18 IN
CURVED	6 IN	20 IN

SPLITTER ISLAND MOUNTABLE GRANITE STONE CURBING WITH 4" REVEAL

N.T.S.

* TABLE IS FOR GRANITE STONE CURBING INSTALLED WITHIN THE SPLITTER ISLANDS, CENTRAL ISLAND, AND TRUCK APRON. TABLE DOES NOT APPLY TO FLUSH STONE CURBING WITHIN THE SPLITTER ISLANDS.

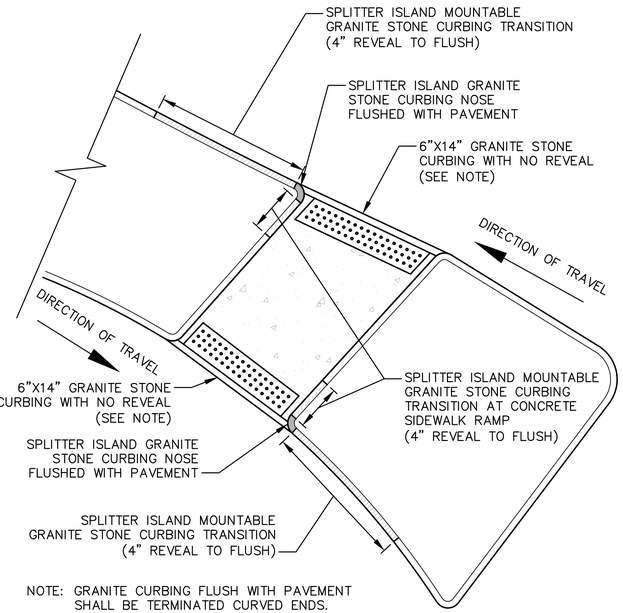


SPLITTER ISLAND DETAIL

N.T.S.

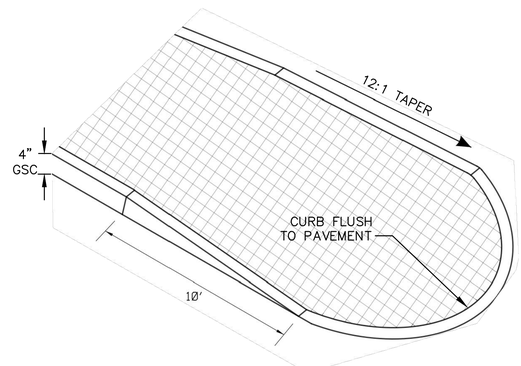
NOTES:

1. TRANSVERSE CONTRACTION JOINTS TO BE SPACED AT 15' O.C. MAX. SEE TRANSVERSE CONTRACTION JOINT DETAIL ON SHEET NO. MDS-04.
2. ALL WELDED WIRE FABRIC SHOULD HAVE A 2" MINIMUM COVER.
3. WELDED WIRE FABRIC TO BE PAID UNDER ITEM "WELDED WIRE FABRIC".
4. TOWN OF AVON SHALL SELECT STAMPED PATTERN AND COLOR. CONTRACTOR TO PROVIDE 48"X48" SAMPLE FOR ENGINEER AND TOWN OF AVON APPROVAL.



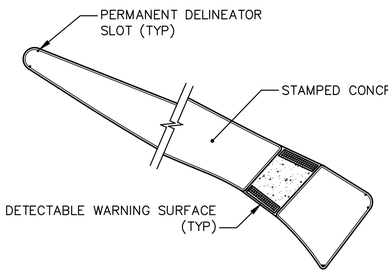
TAPERED GRANITE STONE CURBING AT SPLITTER ISLAND

N.T.S.



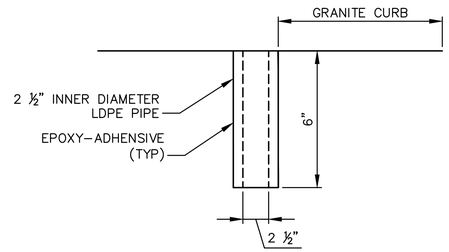
TYPICAL CURB TRANSITION (FOR SPLITTER ISLAND NOSE)

N.T.S.



SPLITTER ISLAND LAYOUT

N.T.S.



PERMANENT DELINEATOR SLOT DETAIL

N.T.S.

NOTES

1. THE LDPE PIPE FOR THE PERMANENT DELINEATOR SLOT SHALL BE INSERTED INTO A DRILLED HOLE IN THE STAMPED CONCRETE SPLITTER ISLAND DIRECTLY ADJACENT TO THE BACK OF THE CURB.
2. THE LDPE PIPE SHALL BE CHEMICALLY ADHERED TO THE CONCRETE USING AN EPOXY–ADHESIVE APPROVED BY THE ENGINEER. THE EPOXY–ADHESIVE SHALL COMPLETELY BOND THE OUTER SURFACE OF PIPE TO THE CONCRETE.
3. THE DELINEATOR SLOT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TYPE DE–3 DELINEATOR."

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: N.T.S.
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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-01

File Path: J:\DWG\P20160663\A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-01 Plotted: Thu, March 02, 2023 - 7:18 AM User: sbearce
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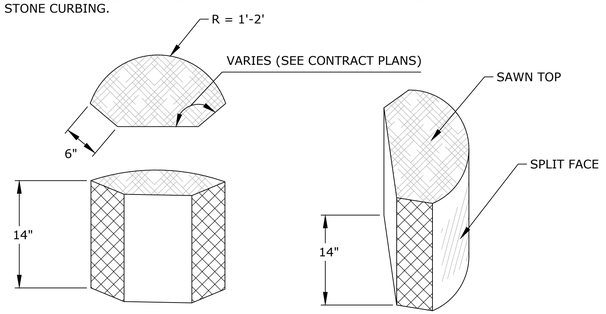
LAYER STATE:
MS VIEW:

NOTES:

1. FOR ALL GRANITE STONE CURBING, PLACE CONCRETE ONLY AT JOINTS (SEE GRANITE STONE CURB SETTING DETAIL), REMAINDER TO BE BASED MATERIAL.

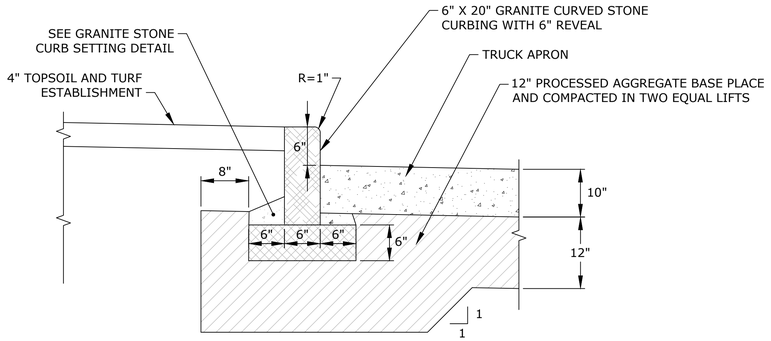
2. RADIUS (CURVED) CURBING APPLIES TO RADII OF 100' OR LESS.

3. CURB AND BASE MATERIAL TO BE PAID FOR UNDER ITEM NO. 0813040 - 6" X 14" GRANITE STONE CURBING.



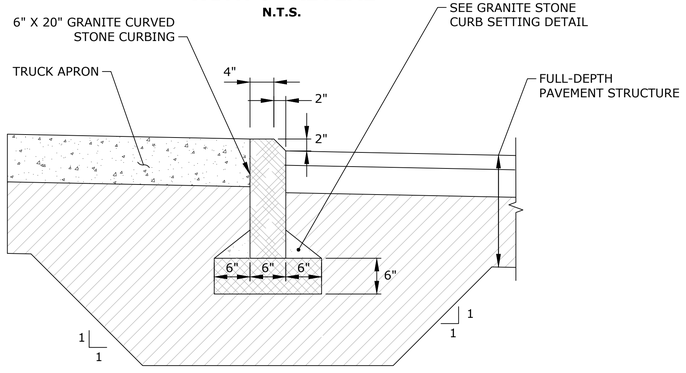
SPLITTER ISLAND GRANITE STONE CURBING NOSE FLUSH WITH PAVEMENT

N.T.S.



CENTRAL ISLAND GRANITE STONE CURBING WITH 6" REVEAL

N.T.S.

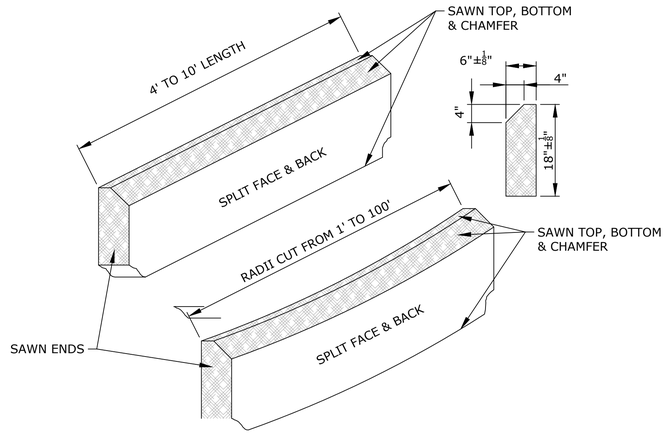


TRUCK APRON MOUNTABLE GRANITE STONE CURBING WITH 2" REVEAL

N.T.S.

NOTES:

1. CURB AND BASE MATERIAL TO BE PAID FOR UNDER ITEM NO. 0813052 - 6" X 20" GRANITE CURVED STONE CURBING.

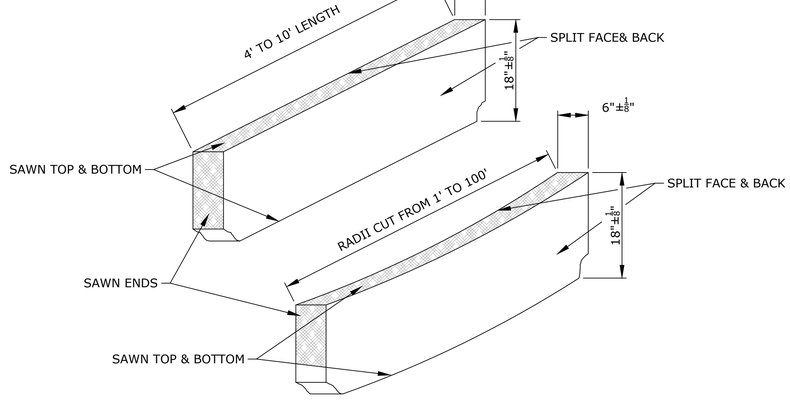


NOTES:

1. CURB AND BASE MATERIAL TO BE PAID FOR UNDER ITEM NO. 0813041 - 6" X 14" GRANITE STONE CURBING.

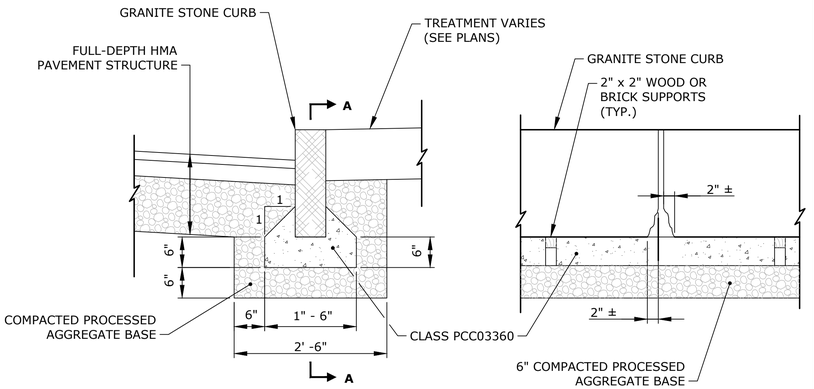
6" X 18" MOUNTABLE GRANITE STONE CURB

N.T.S.



6" X 18" GRANITE STONE CURB

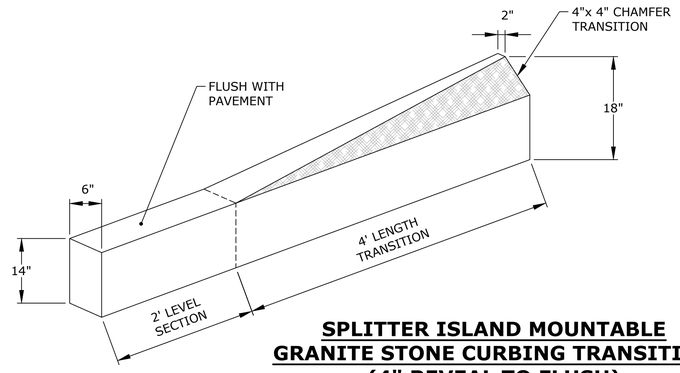
N.T.S.



SECTION A-A

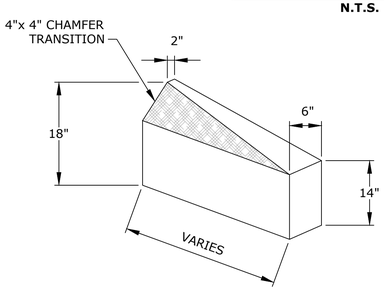
GRANITE STONE CURB SETTING DETAIL

N.T.S.



SPLITTER ISLAND MOUNTABLE GRANITE STONE CURBING TRANSITION (4" REVEAL TO FLUSH)

N.T.S.



SPLITTER ISLAND MOUNTABLE GRANITE STONE CURBING TRANSITION AT CONCRETE SIDEWALK RAMP (4" REVEAL TO FLUSH)

N.T.S.

NOTES:

1. TRANSITION CURB AND BASE MATERIAL TO BE PAID FOR UNDER ITEM NO. 0813057 - 14" X 18" GRANITE STONE CURBING OR ITEM NO. 0813058 - 14" X 18" GRANITE CURVED STONE CURBING.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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SCALE: HORZ.: N.T.S. VERT.:
DATUM: HORZ.: VERT.:
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GRAPHIC SCALE

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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-02

File Path: J:\DWG\P2016\20663A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-02 Plotted: Thu, March 02, 2023 - 7:18 AM User: sbearce
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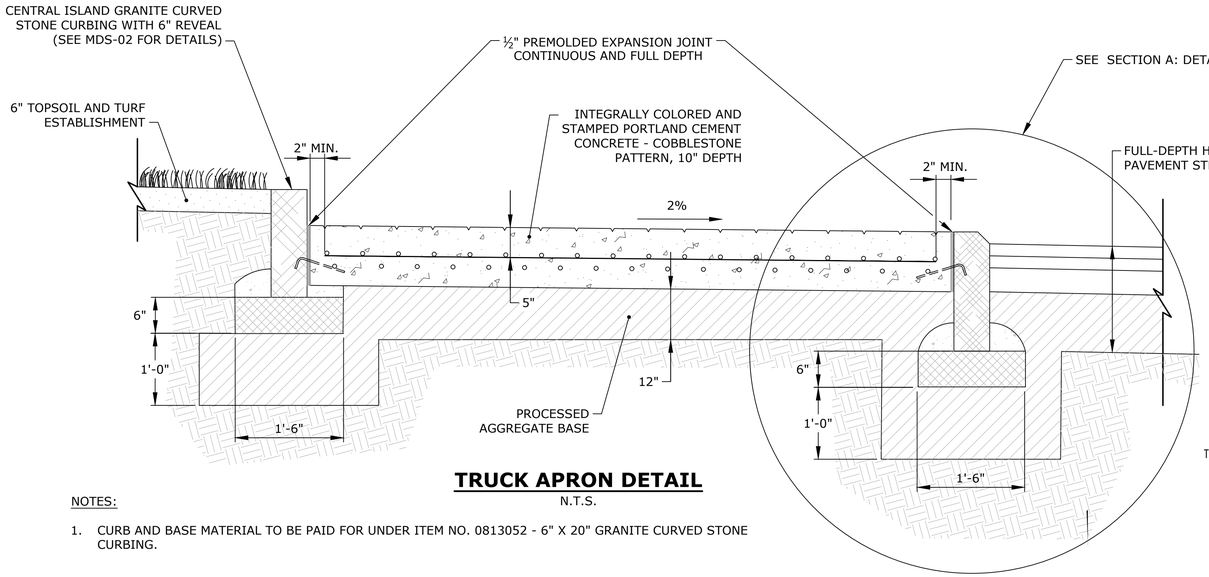
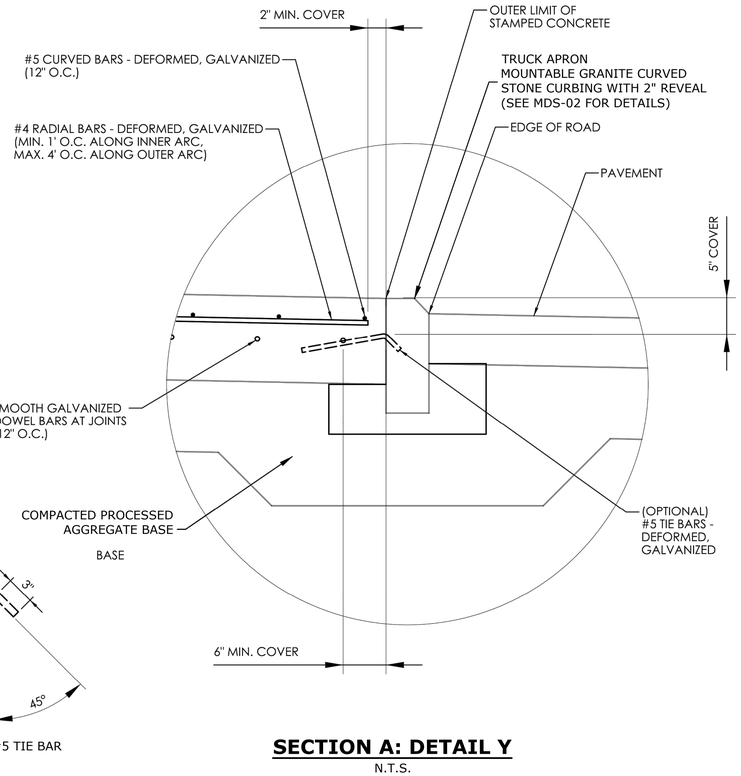


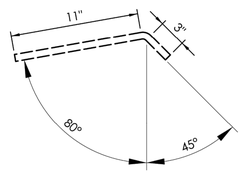
TRUCK APRON DETAIL

N.T.S.

NOTES:

1. CURB AND BASE MATERIAL TO BE PAID FOR UNDER ITEM NO. 0813052 - 6" X 20" GRANITE CURVED STONE CURBING.

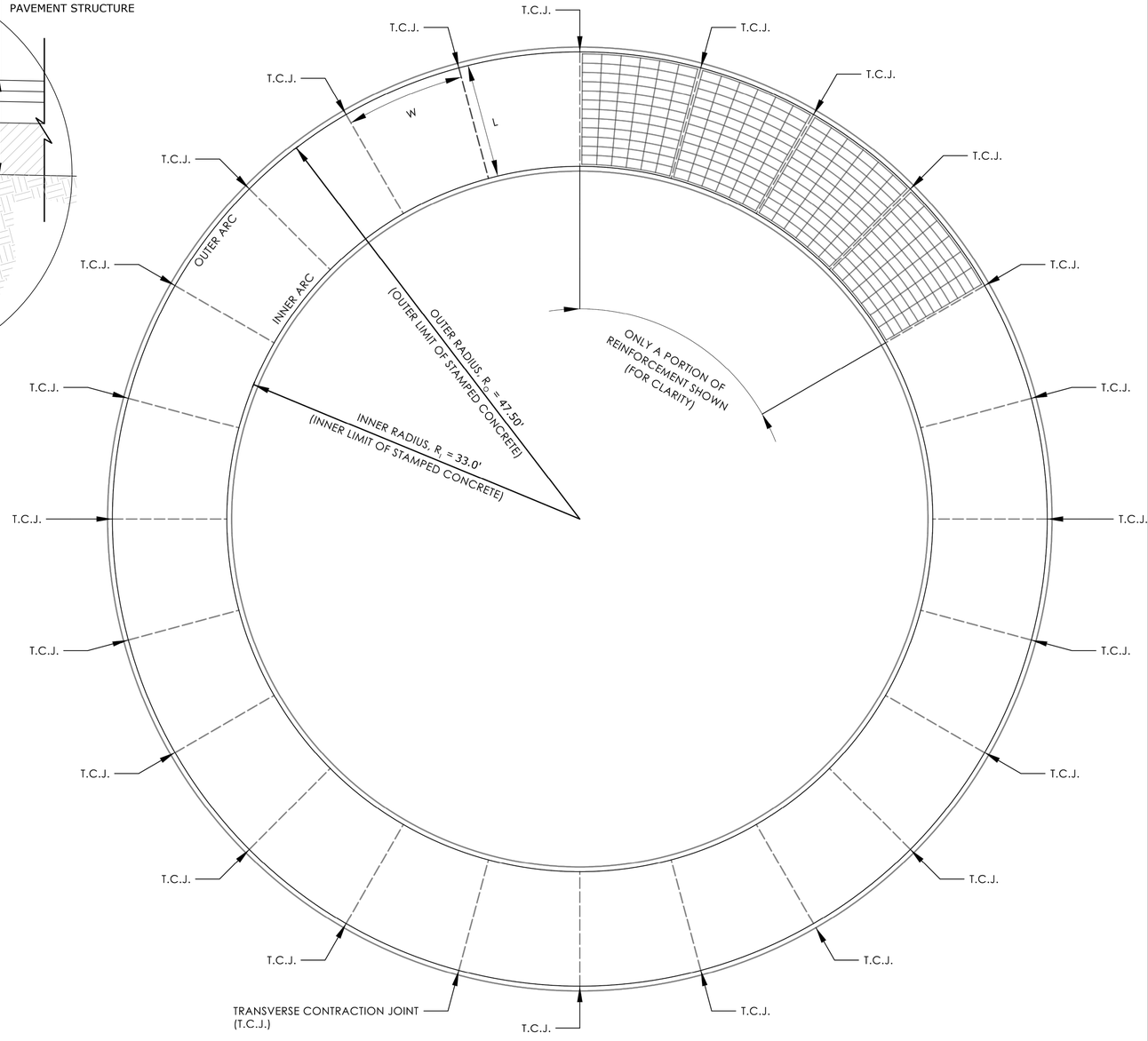




OPTIONAL #5 TIE BAR

SECTION A: DETAIL Y

N.T.S.



PLAN VIEW - TRUCK APRON

N.T.S.

File Path: J:\DWG\P2016\06663\A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-03 Plotted: Thu, March 02, 2023 - 7:18 AM User: sbearce
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MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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HORZ.: N.T.S.
VERT.:
DATUM:
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VERT.:
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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

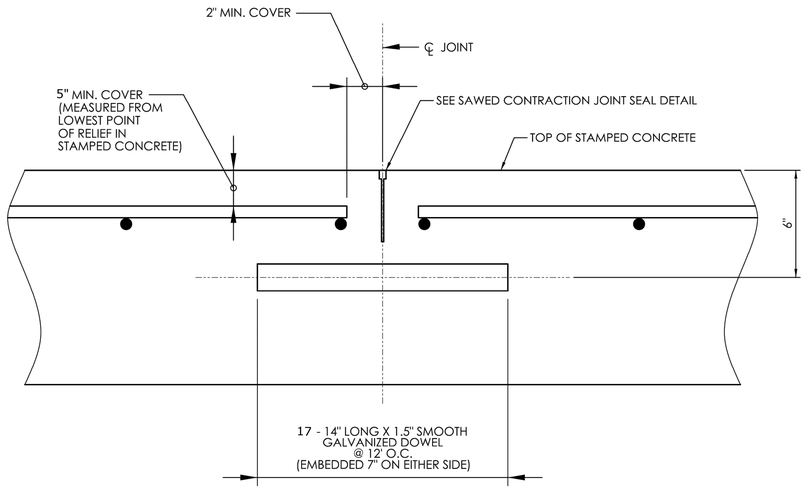
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

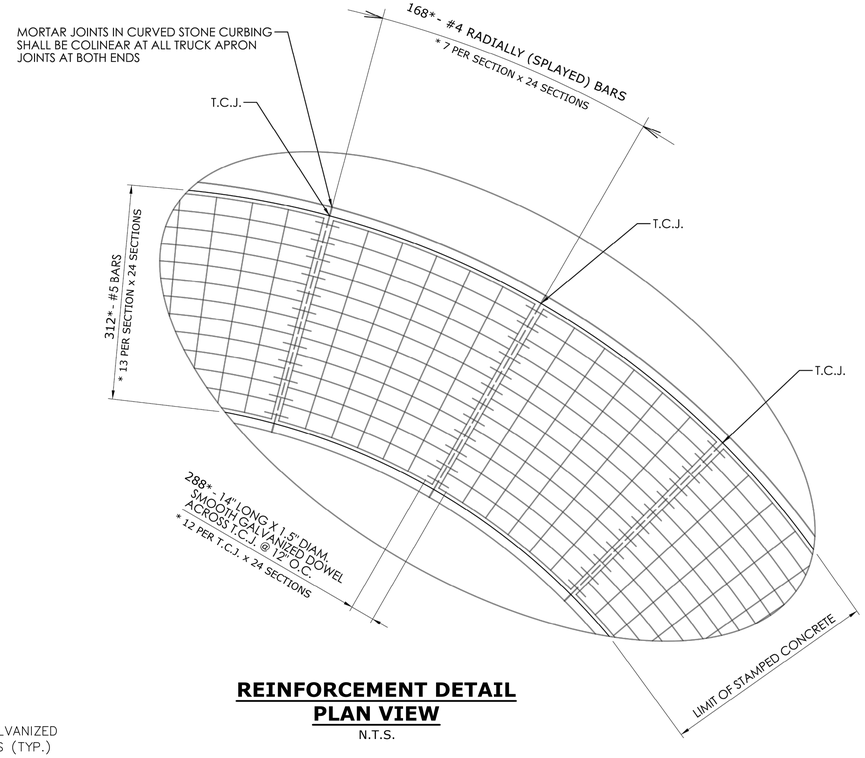
MDS-03

GENERAL NOTES:

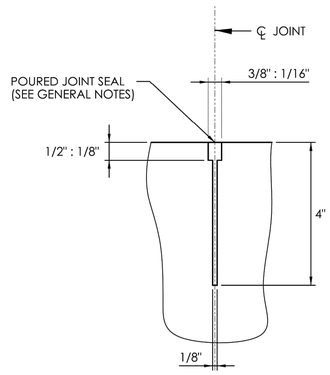
1. MATERIALS FOR SIDE FRAMES AND CENTER SUPPORTS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS M.06 - METALS. ALTERNATE FRAME DESIGN MAY BE APPROVED.
2. ALL SIDE FRAMES AND CENTER SUPPORTS SHALL BE 1 GAUGE WIRE AND 5/16" BARS THROUGHOUT.
3. SUPPORT REINFORCING BARS WITH PLASTIC CHAIRS.
4. ALL REINFORCEMENT SHALL BE GALVANIZED. DOWEL BARS AND BASKETS TO BE PAID UNDER ITEM "TRANSVERSE CONTRACTION JOINT." ALL OTHER ELEMENTS TO BE PAID UNDER ITEM "DEFORMED STEEL BARS - GALVANIZED."
5. DOWEL BAR DIAMETER SIZES ARE EXCLUSIVE OF COATING. ALL DIMENSIONS SUBJECTED TO MANUFACTURING TOLERANCES.
6. BOND-BREAKING MATERIAL APPLIED TO EACH DOWEL SHALL CONSIST OF PARAFFIN WAX, LITHIUM GREASE, OR OTHER SEMI-SOLID, INERT LUBRICANT.
7. AT FIRST POURING, THE JOINT SEAL MATERIAL SHALL FILL THE JOINT FLUSH WITH THE PAVEMENT SURFACE. AFTER THIS MATERIAL HAS COOLED AND CONTRACTED, THE REMAINING JOINT OPENING SHALL BE FILLED FLUSH WITH THE PAVEMENT SURFACE.



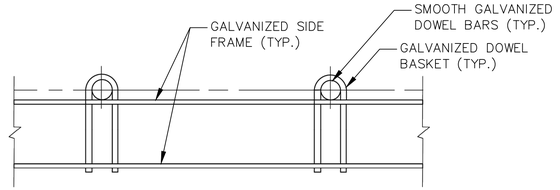
TRANSVERSE CONTRACTION JOINT SECTION VIEW
N.T.S.



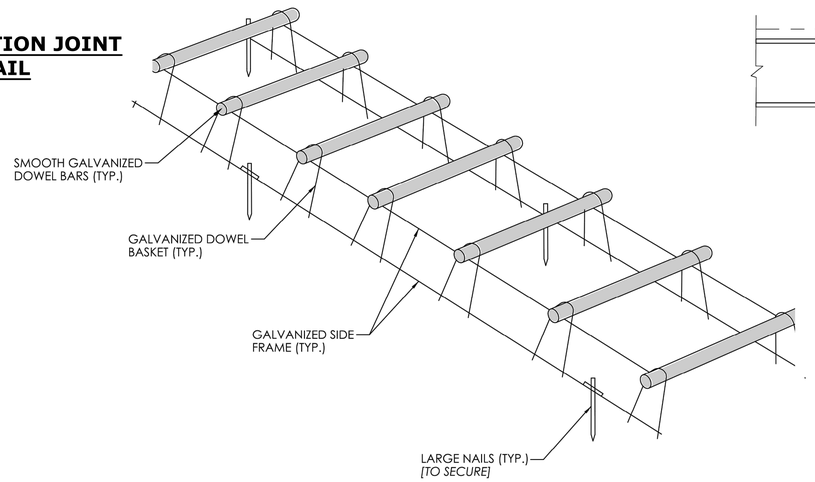
REINFORCEMENT DETAIL PLAN VIEW
N.T.S.



SAWED CONTRACTION JOINT SEAL DETAIL
N.T.S.

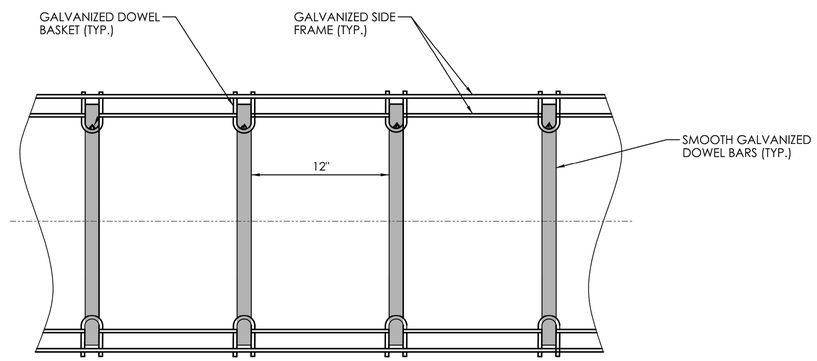


SIDE VIEW



ISOMETRIC VIEW

WELDED DOWEL ASSEMBLY AT CONTRACTION JOINT
N.T.S.



PLAN VIEW

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-04

File Path: J:\DWG\P2016\0663A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-04 Plotted: Thu, March 02, 2023 - 7:18 AM User: sbearce
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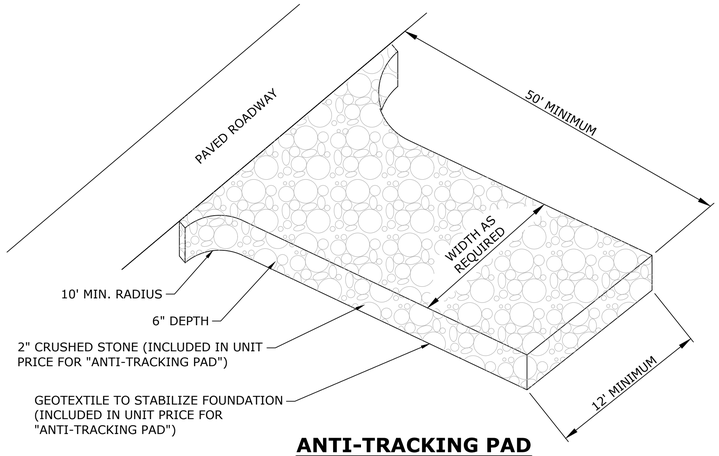

ANTI-TRACKING PAD
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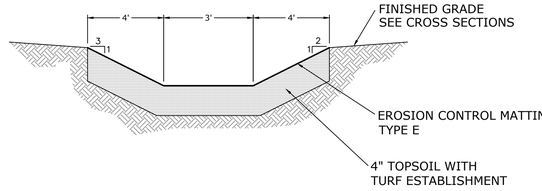


TYPE A GRASS-LINED SWALE
N.T.S.

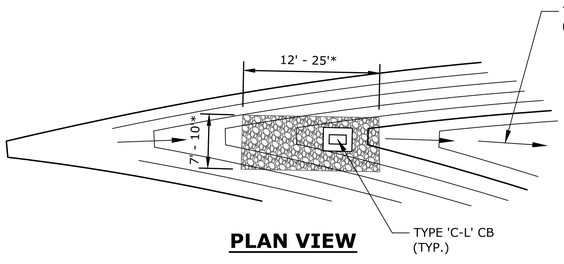
WETLAND BUFFER SEED MIX FOR AREAS OUTSIDE OF FLAGGED WETLANDS:
(SHALL BE NEW ENGLAND CONSERVATION/WILDLIFE MIX AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL):

BOTANICAL NAME	COMMON NAME	IND.
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	FACW–
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
ANDROPOGON GERARDII	BIG BLUESTEM	FAC
FESTUCA RUBRA	RED FESCUE	FACU
SORGHASTRUM NUTANS	INDIAN GRASS	UPL
PANICUM VIRGATUM	SWITCH GRASS	FAC
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	FACU
DESMODIUM CANADENSE	SHOWY TICK TREFOIL	FAC
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	NI
BIDENS FRONDOSA	BEGGAR TICKS	FACW
EUPATORIUM PURPUREUM	PURPLE JOE PYE WEED	FAC
RUDBECKIA HIRTA	BLACK EYED SUSAN	FACU
ASTER PILOSUS	HEATH (OR HAIRY) ASTER	UPL
SOLIDAGO JUNCEA	EARLY GOLDENROD	

WETLAND SEED MIX FOR AREAS WITHIN FLAGGED WETLANDS:
(SHALL BE NEW ENGLAND WETMIX AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL):

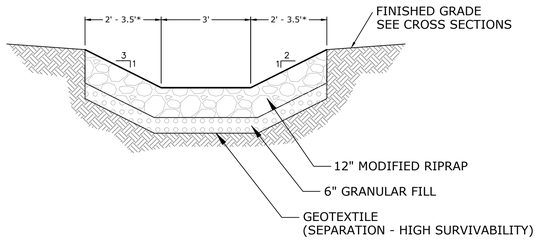
BOTANICAL NAME	COMMON NAME	IND.
CAREX VULPINOIDEA	FOX SEDGE	OBL
CAREX SCOPARIA	BLUNT BROOM SEDGE	FACW
CAREX LURIDA	LURID SEDGE	OBL
CAREX LUPULINA	HOP SEDGE	OBL
POA PALUSTRIS	FOWL BLUEGRASS	FACW
BIDENS FRONDOSA	BEGGAR TICKS	FACW
SCIRPUS ATROVIRENS	GREEN BULRUSH	OBL
ASCLEPIAS INCARNATA	SWAMP MILKWEED	OBL
CAREX CRINITA	FRINGED SEDGE	OBL
VERNONIA NOVEBORACENSIS	NEW YORK IRONWEED	FACW+
JUNCUS EFFUSUS	SOFT RUSH	FACW+
ASTER LATERIFLORUS	STARVED/CALICO ASTER	FACW
IRIS VERSICOLOR	BLUE FLAG	OBL
GLYCERIA GRANDIS	AMERICAN MANNAGRASS	OBL
MIMULUS RINGENS	SQUARE STEMMED MONKEY FLOWER	OBL
EUPATORIUM MACULATUM	SPOTTED JOE PYE WEED	OBL

SEED MIXES
N.T.S.



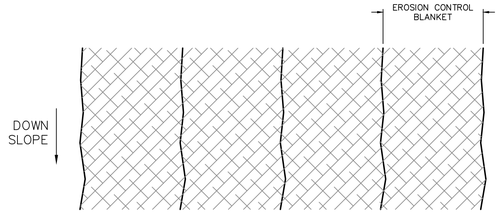
PLAN VIEW

*SEE DRAWING NO. GRA-01 TO GRA-08 FOR RIPRAP APRON SIZE (W' X L')

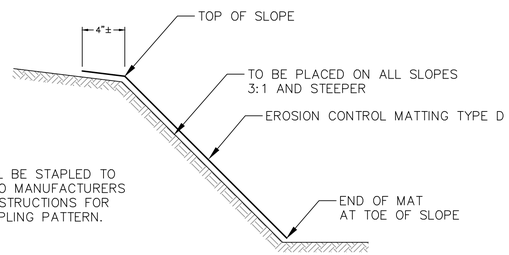


SECTION VIEW

MODIFIED RIPRAP APRON
N.T.S.



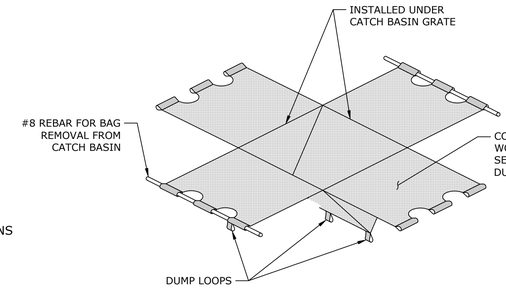
PLAN



NOTE:
BLANKETS SHALL BE STAPLED TO SLOPE. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR DETAILS OF STAPLING PATTERN.

ELEVATION

EROSION CONTROL MATTING
N.T.S.



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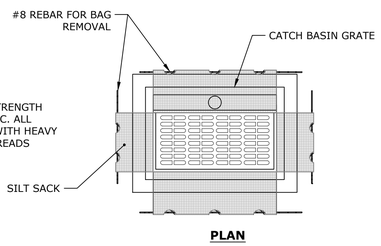
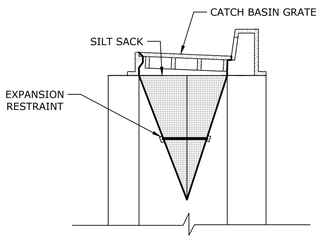


PLAN



SECTION

NOTES:

1. INSTALL SEDIMENT CONTROL SYSTEMS IN ALL CATCH BASINS BEFORE COMMENCING EXCAVATION AND TRENCHING WORK.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED

SEDIMENT CONTROL SYSTEM AT CATCH BASIN
N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-05

File Path: J:\DWG\P2016\20160663\A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-05 Plotted: Thu, March 02, 2023 - 7:18 AM User: sbearce
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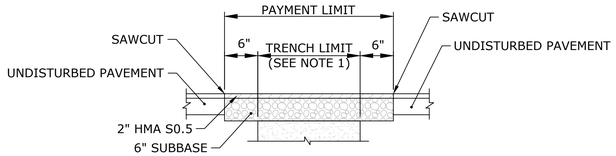
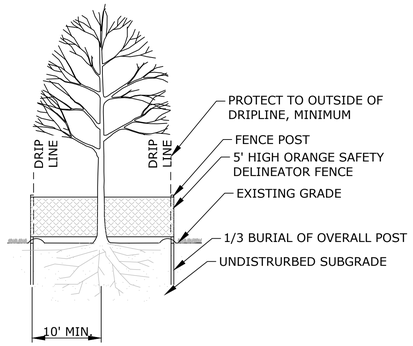


NOTES:

1. THE LIMIT OF THE TRENCH SHALL BE PIPE I.D. + 2'-0" FOR PIPES LESS THAN 30" IN DIAMETER. THE LIMIT OF HE TRENCH SHALL BE PIPE I.D. + 3'-0" FOR PIPES THAT ARE 30" OR GREATER IN DIAMETER.
2. THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT AT THE LIMITS OF TEMPORARY PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TEMPORARY PAVEMENT

N.T.S.

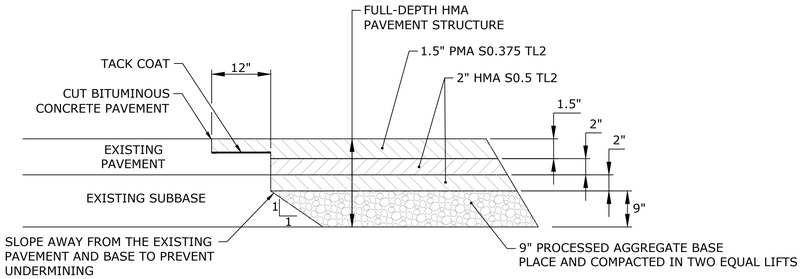


NOTES:

1. COORDINATE LOCATION OF FENCE WITH PROJECT ENGINEER.
2. IF EXCAVATION OCCURS WITHIN DRIPLINE, EXISTING ROOTS SHALL BE CLEANLY CUT PRIOR TO EXCAVATION BY A CERTIFIED ARBORIST AND TREES SHALL BE WATERED.

TREE PROTECTION

N.T.S.



PAVEMENT TRANSITION DETAIL FOR PLACEMENT AT EXISTING PAVEMENT

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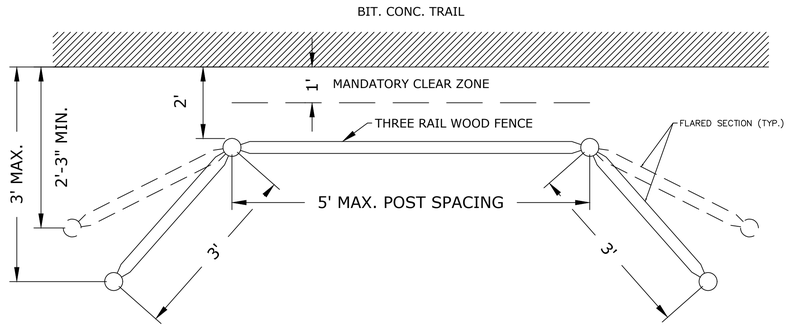
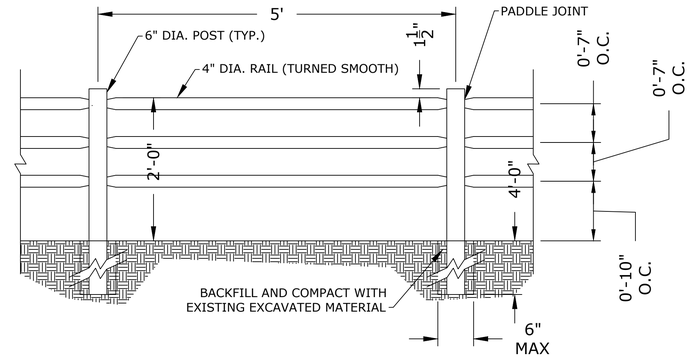
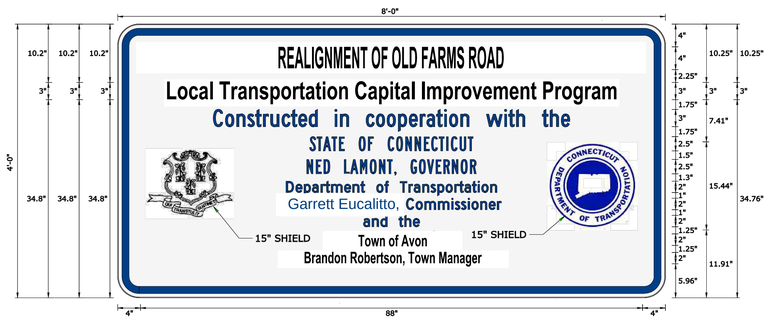




NOTE:
1. THREE RAIL FENCE USED ON EDGE OF STEEP SLOPES IN LOCATION SHOWN ON PLANS.
2. 2' CLEAR DIMENSIONS OFF EDGE OF TRAIL TO FACE OF POSTS.
3. NO TRAIL AMENITIES SHALL BE PLACED WITHIN THE 1' MANDATORY CLEAR ZONE.
4. SEE PLANS FOR LOCATIONS

THREE RAIL WOOD FENCE

N.T.S.



NOTE:

1. SIGN TO BE PAID UNDER ITEM #1220027A 'CONSTRUCTION SIGNS.'
2. SEE SPECIFICATION (#1220027A) FOR SIGN CONSTRUCTION REQUIREMENTS.

TEMPORARY FUNDING PROGRAM SIGN

N.T.S

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: N.T.S.
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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-06

File Path: J:\DWG\P2016\06663A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-06 Plotted: Thu, March 09, 2023 - 2:14 PM User: sbearce
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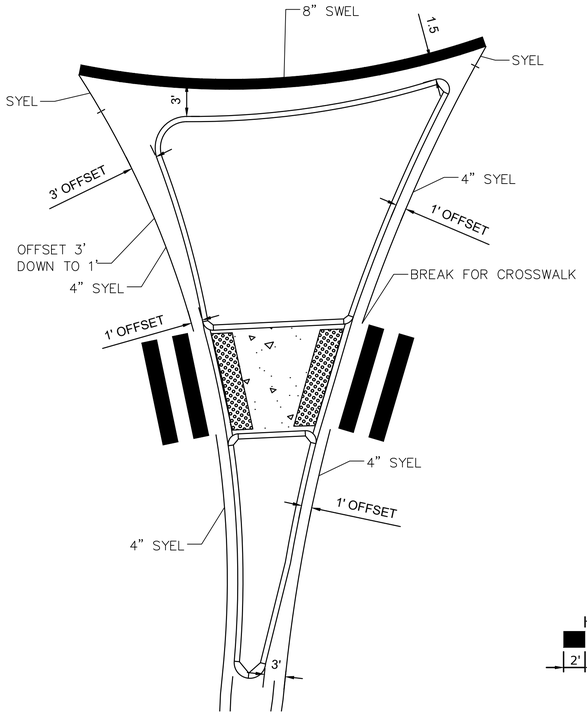
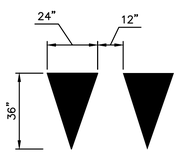


TYPICAL PAVEMENT MARKINGS AT SPLITTER ISLANDS

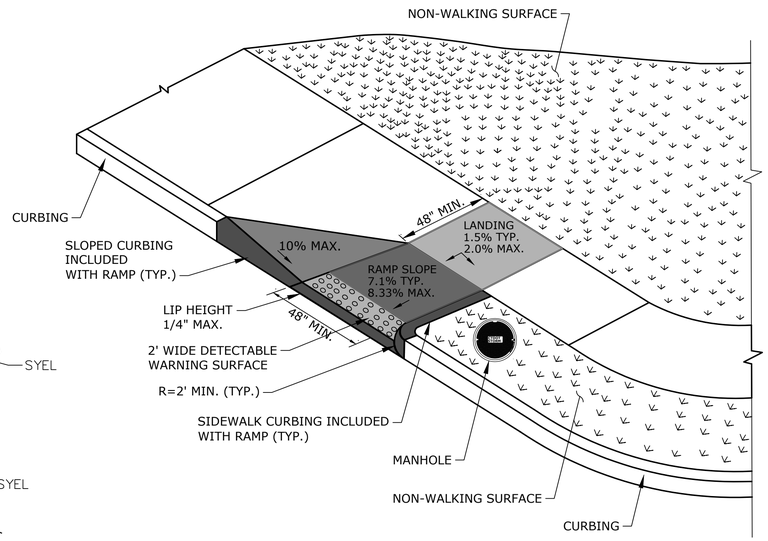
N.T.S

ROUNDABOUT DOTTED EXTENSION LINE (DEL)

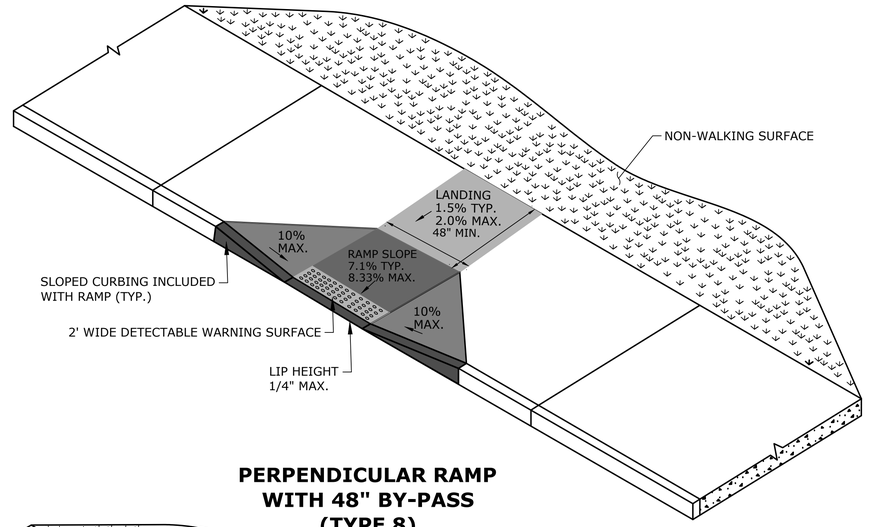


YIELD LINE DETAIL

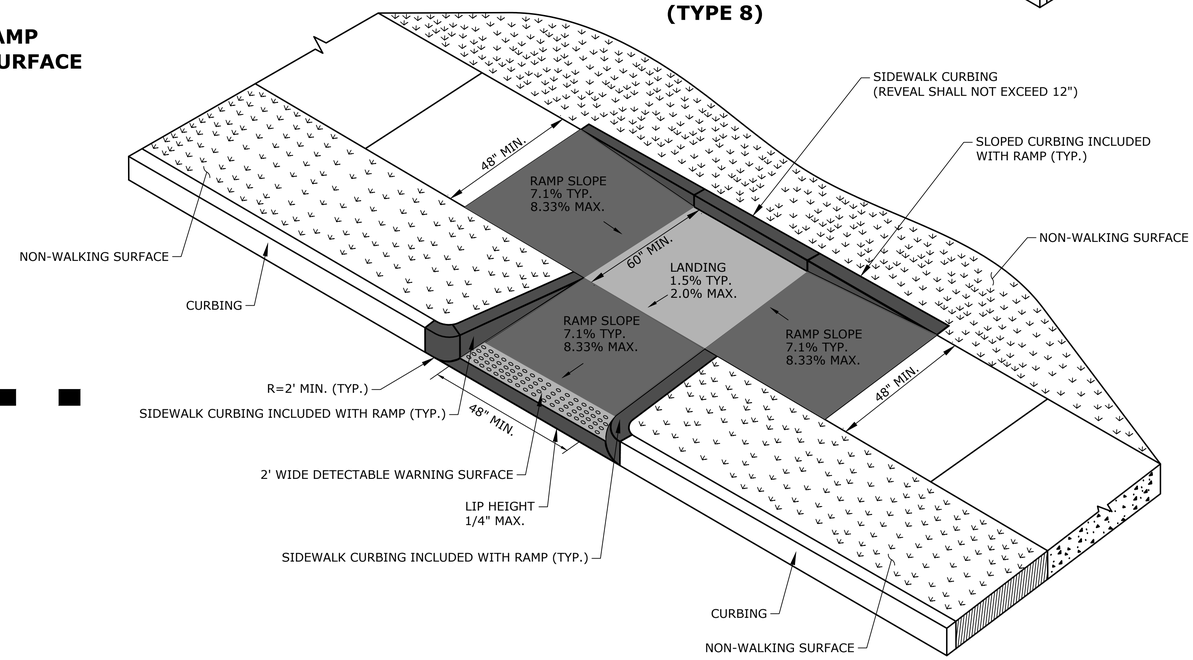
N.T.S



PERPENDICULAR RAMP WITH NON-WALKING SURFACE (TYPE 18 LEFT)



PERPENDICULAR RAMP WITH 48" BY-PASS (TYPE 8)



PERPENDICULAR RAMP WITH SIDEWALK CURB AND NON-WALKING SURFACE (TYPE 12)

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: N.T.S.
VERT.:
DATUM:
HORZ.:
VERT.:
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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-07

File Path: J:\DWG\P2016\0663\A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-07 Plotted: Thu, March 02, 2023 - 7:19 AM User: sbearce
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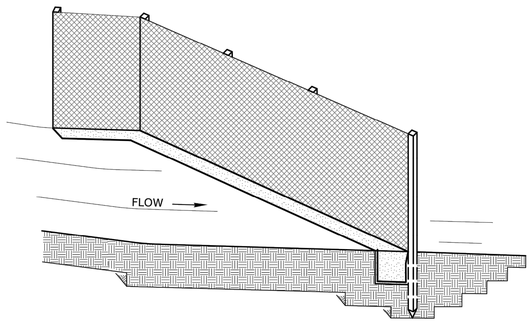
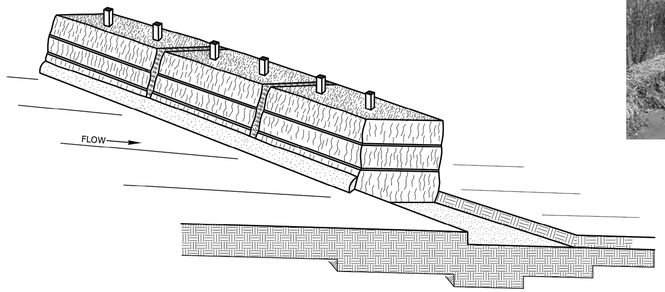
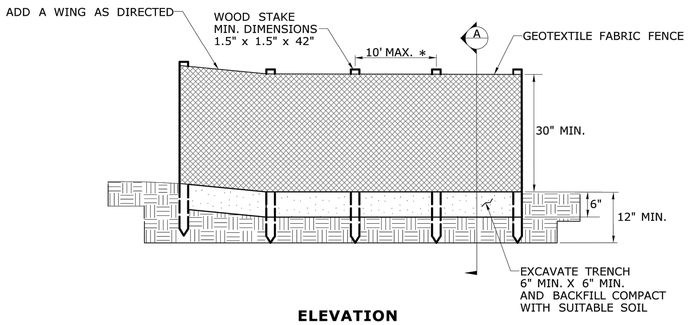


SEDIMENTATION CONTROL SYSTEM



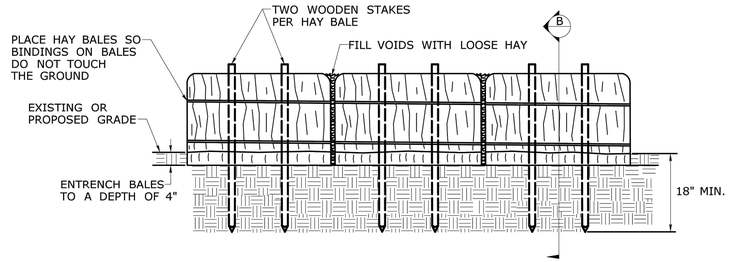
SEDIMENTATION CONTROL SYSTEM

INSTALL THE WING WHEN THE FENCE IS MORE THAN 4' FROM THE TOE OF SLOPE AND THE FENCE LINE GRADIENT IS 5% OR MORE

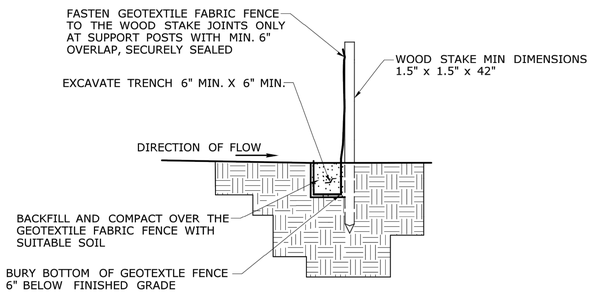


ELEVATION

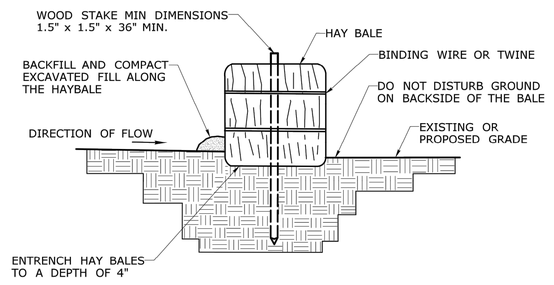
* FOR SLOPES STEEPER THAN 2:1 USE A 5' POST SPACING OR AS DIRECTED BY THE ENGINEER



ELEVATION



SECTION A



SECTION B

File Path: J:\DWG\P20160663A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-08 Plotted: Thu, March 02, 2023 - 7:19 AM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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SCALE:
HORZ.: N.T.S.
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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

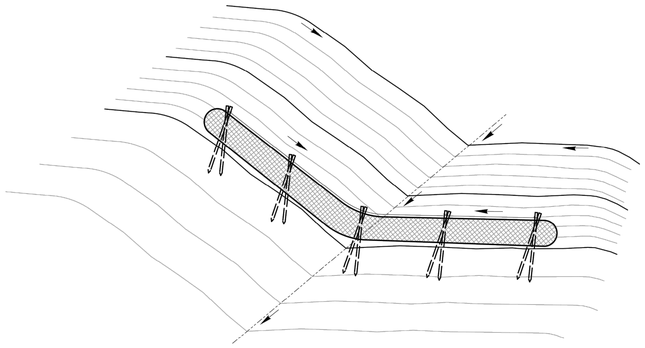
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

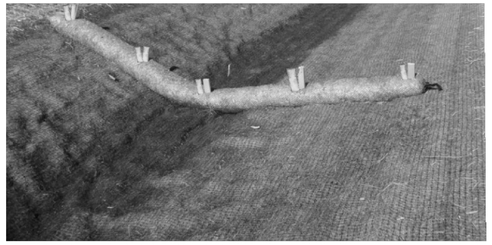
MDS-08

GENERAL NOTE:

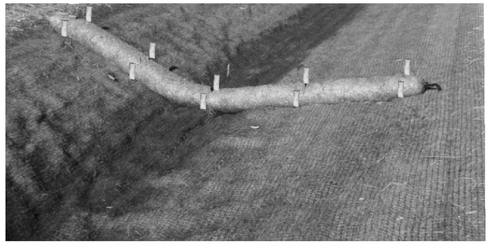
1. FIBER ROLLS SHALL BE STORED PROPERLY TO BE DRY PRIOR TO INSTALLATION.



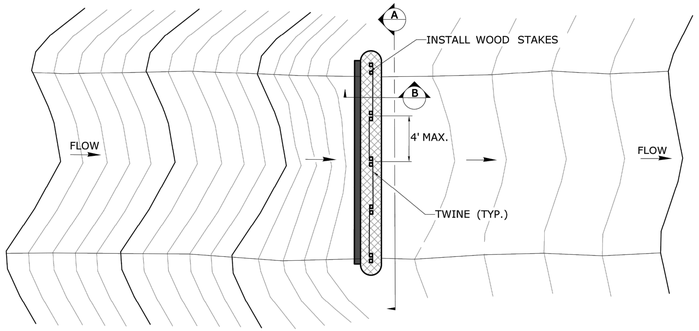
FIBER ROLL IN A CHANNEL



FIBER ROLL IN A CHANNEL

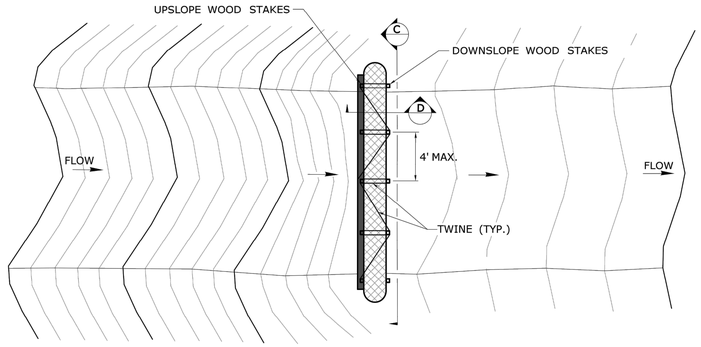


FIBER ROLL IN A CHANNEL
(ALTERNATIVE WOOD STAKING SHOWN)



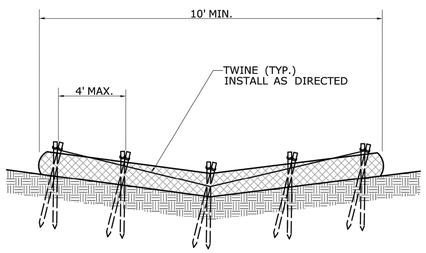
PLAN

FIBER ROLL IN A CHANNEL

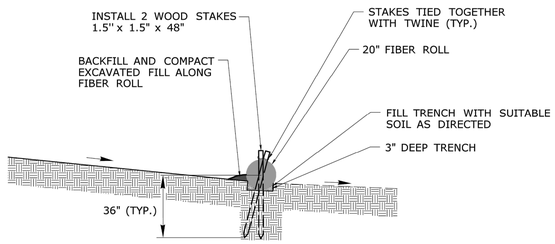


PLAN

ALTERNATIVE WOOD STAKING PLAN
FOR FIBER ROLL IN A CHANNEL

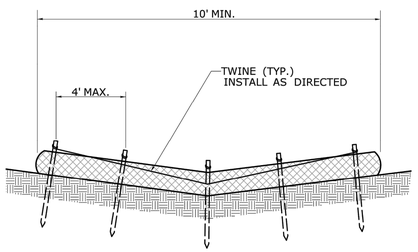


SECTION A



FIBER ROLL AT TOE OF SLOPE OR CHANNEL

SECTION B



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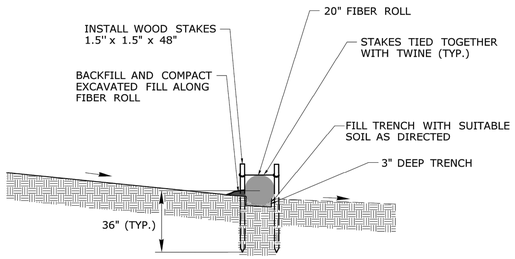

FIBER ROLL AT TOE OF SLOPE OR CHANNEL

SECTION D

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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SCALE:
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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-09

File Path: J:\DWG\P20160663A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-09 Plotted: Thu, March 02, 2023 - 7:19 AM User: sbearce
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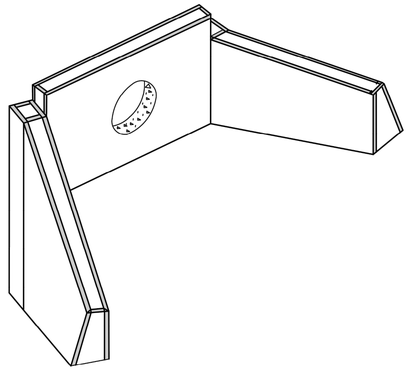
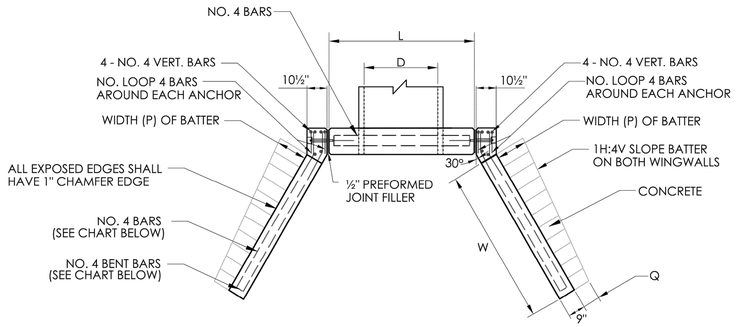


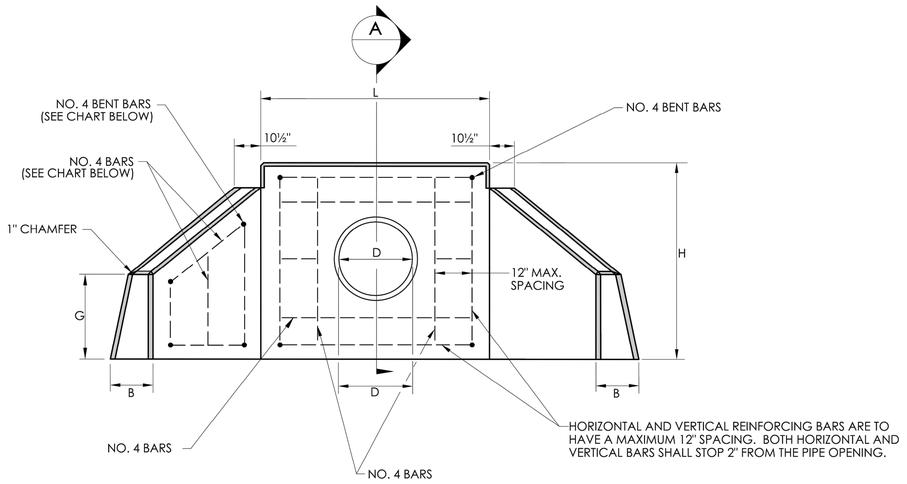
WING ENDWALL



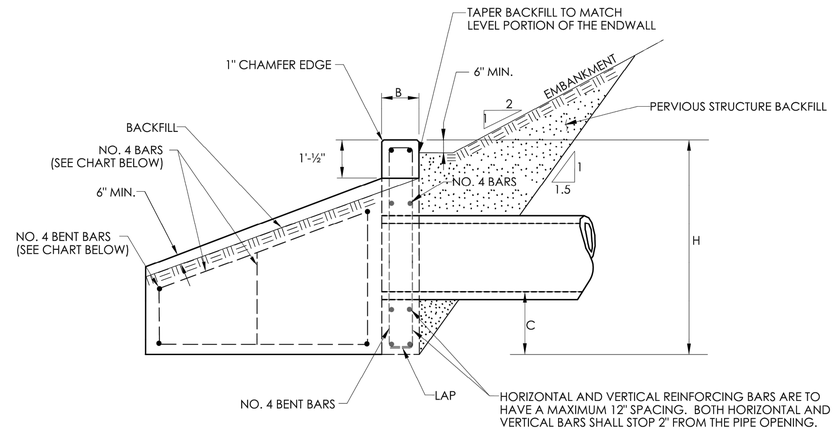
PLAN

GENERAL NOTES:

1. ALL REINFORCING BARS SHALL HAVE 2" COVER MIN.
2. ALL REINFORCING BARS ARE TO BE TIED AND NOT WELDED.
3. WET SETTING OF ANY STEEL IS NOT PERMITTED.
4. SEE THE CHART ON STANDARD DRAWING HW-506_01a, "ENDWALL" AND HW-506_01b "STEEL REINFORCING FOR ENDWALL".
5. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A767, CLASS 1.
6. WHEN USING PRECAST ALL PORTIONS OF LIFTING AND SEATING DEVICES THAT EXTEND TO OR BEYOND THE FINISHED CONCRETE SURFACE SHALL BE REMOVED. ALL FIXTURES OR HOLES CAST INTO THE SECTIONS FOR LIFTING OR SEATING SHALL BE COMPLETELY FILLED WITH NON-SHRINK GROUT AND FINISHED SMOOTH AND FLUSH WITH THE ADJACENT CONCRETE SURFACE.
7. NON-SHRINK GROUT SHALL CONFORM TO M.03.05. THE NON-SHRINK GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI PRIOR TO ALLOWING THE PASSAGE OF WATER OVER THE GROUT.



FRONT ELEVATION



SIDE VIEW (A)

WING ENDWALL DIMENSIONS

CONCRETE

DIAMETER (D)	BASE (B)	DEPTH OF CUTOFF WALL TO INVERT (C)	HEIGHT OF WINGWALL (G)	TOTAL HEIGHT (H)	LENGTH OF ENDWALL (L)	WIDTH OF BATTER (P)	WIDTH OF BATTER AT ENDPOINT (Q)	TAPERED WINGWALL LENGTH (W)	VOLUME
IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	C.Y.
12"	1'-3"	2'-0"	2'-0"	4'-6"	4'-6"	0'-10⅜"	0'-6"	2'-11"	1.8
15"	1'-3"	2'-0"	2'-0"	4'-9"	5'-6"	0'-11⅛"	0'-6"	3'-5"	2.2
18"	1'-3"	2'-0"	2'-0"	5'-0"	6'-6"	0'-11⅞"	0'-6"	3'-11"	2.7
24"	1'-3"	2'-0"	2'-0"	5'-6"	8'-6"	1'-1⅜"	0'-6"	4'-11"	3.7
30"	1'-3"	2'-0"	2'-0"	6'-0"	10'-6"	1'-2⅞"	0'-6"	5'-11"	4.8
36"	1'-6¾"	2'-0"	3'-3"	6'-6"	12'-6"	1'-4⅜"	0'-9¾"	5'-5¾"	6.8
42"	1'-6¾"	2'-0"	3'-3"	7'-0"	14'-6"	1'-5⅞"	0'-9¾"	6'-7¾"	8.5
48"	1'-8¼"	2'-0"	3'-9"	7'-6"	16'-6"	1'-7⅜"	0'-11¼"	7'-9½"	11.1

WINGWALL STEEL REINFORCEMENT

DIAMETER (D)	NO. 4 BENT BARS	NO. 4 BARS	THREADED ROD CONNECTIONS PER WW
IN.	EA.	EA.	EA.
12"	4	8	3
15"	5	8	4
18"	5	8	4
24"	6	10	5
30"	7	10	5
36"	7	12	6
42"	8	12	6
48"	9	14	7

SEE PROJECT PLANS FOR WING ENDWALL DETAILS NOT SHOWN ON THIS SHEET

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-10

File Path: J:\DWG\P2016\0663A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-10 Plotted: Thu, March 02, 2023 - 7:19 AM User: sbearce
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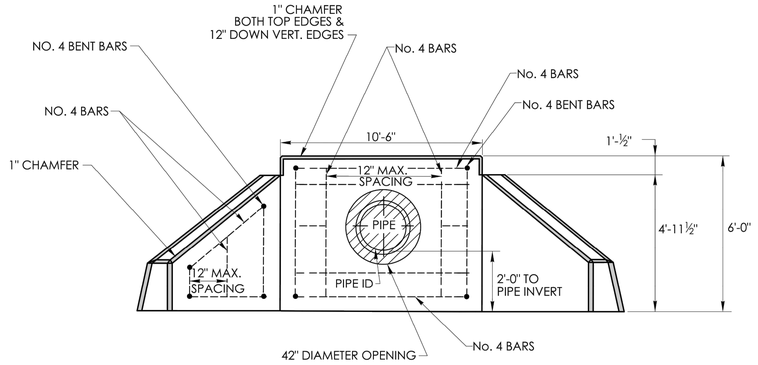
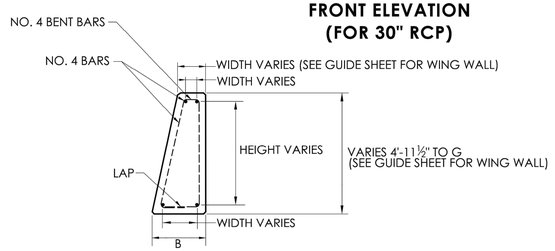
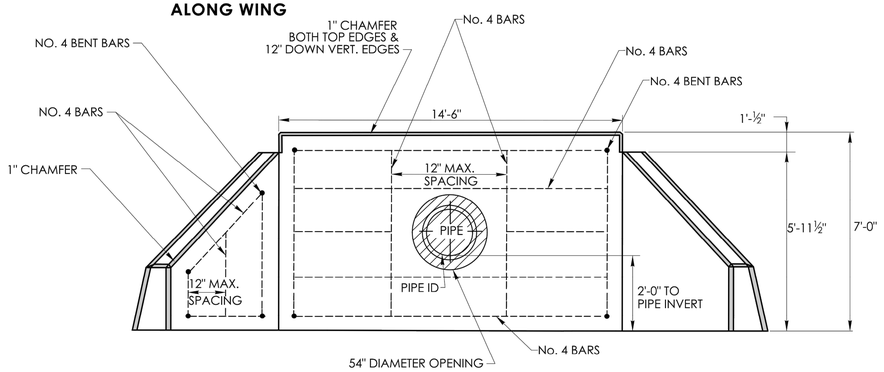


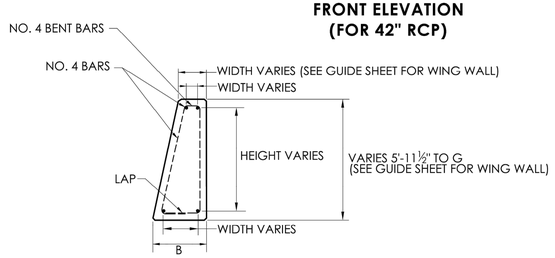
FRONT ELEVATION
(FOR 30" RCP)



SECTION
ALONG WING



FRONT ELEVATION
(FOR 42" RCP)



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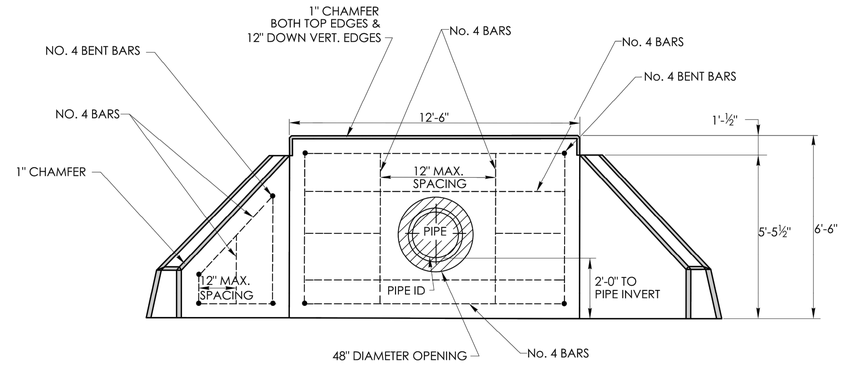
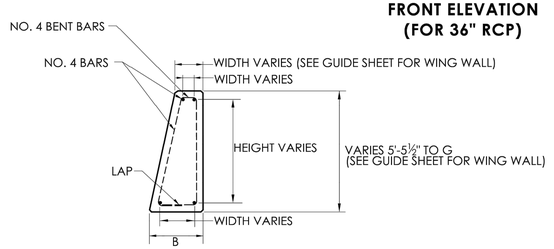
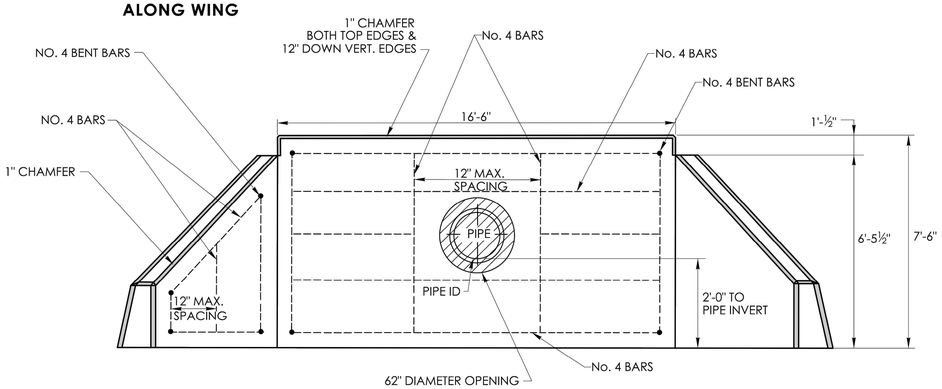
ALONG WING



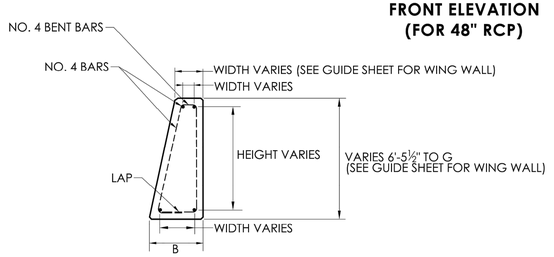
FRONT ELEVATION
(FOR 36" RCP)



SECTION
ALONG WING



FRONT ELEVATION
(FOR 48" RCP)



SECTION
ALONG WING

GENERAL NOTES:

1. SEE THE CHART ON STANDARD DRAWING HW-506_01a, "ENDWALL" AND HW-506_01b "STEEL REINFORCING FOR ENDWALLS".
2. SEE THE CHART ON THE GUIDE SHEET FOR WING ENDWALL, AND WINGWALL STEEL REINFORCING SIZES.
3. ALL REINFORCING BARS SHALL HAVE A 2" MIN. COVER.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-11

File Path: J:\DWG\P2016\0663A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-11 Plotted: Thu, March 02, 2023 - 7:19 AM User: sbearce
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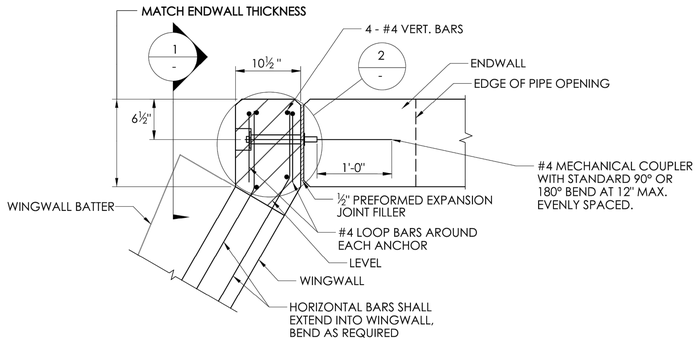
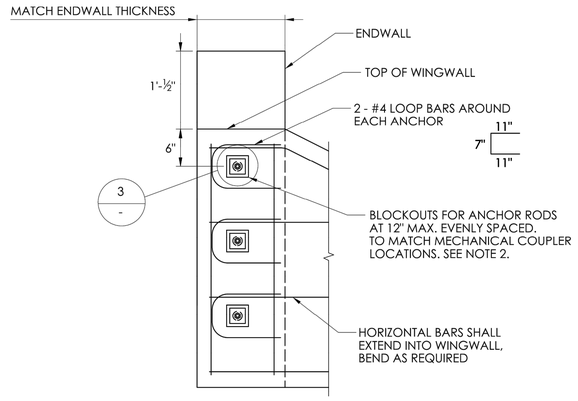


PLAN - PRECAST WALL CONNECTION



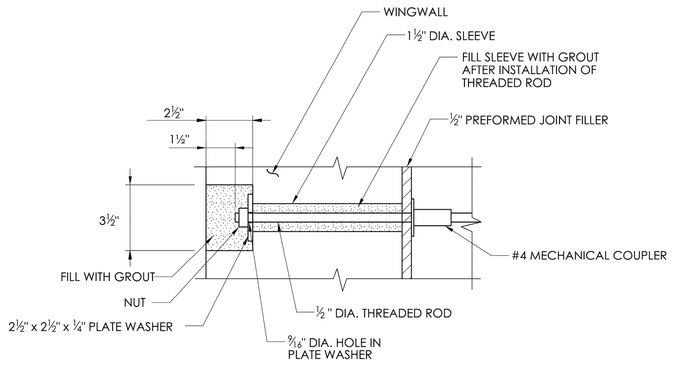
SECTION - PRECAST WALL CONNECTION 1 -

GENERAL NOTES:

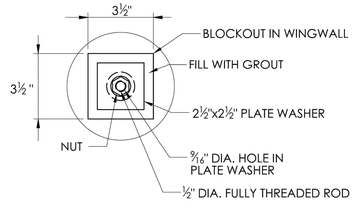
1) ALL TYPICAL REINFORCEMENT NOT SHOWN FOR CLARITY.

2) FOR MINIMUM NUMBER OF ANCHOR RODS AND BLOCKOUTS PER CONNECTION REFER, TO TABLE ON HWY-506 01c.

3) THREADED RODS SHALL MEET THE REQUIREMENTS OF ASTM F1554 GRADE 36 OR GREATER. STEEL PLATE WASHERS SHALL MEET THE REQUIREMENTS OF ASTM A36. NUTS SHALL MEET THE REQUIREMENTS OF ASTM A563. THREADED RODS, PLATE WASHERS, AND NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.



PLAN - BLOCK OUT 2 -



DETAIL - BLOCKOUT 3 -

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SEAL

SEAL

SCALE:
HORZ.: N.T.S.
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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-12

File Path: J:\DWG\P20\20160663\A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-12 Plotted: Thu, March 02, 2023 - 7:19 AM User: sbearce
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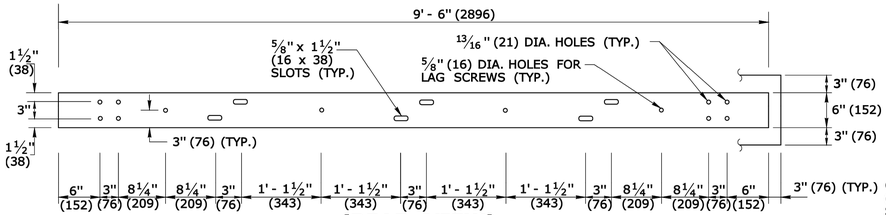
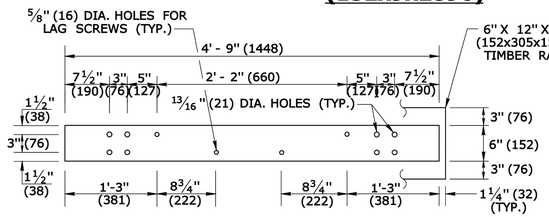
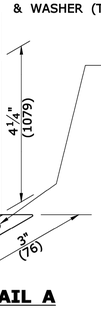


(REAR VIEW)
STANDARD STEEL RAIL DETAIL
6" x 3/8" x 9'-6"
(152x9x2896)

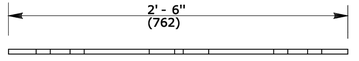


STEEL RAIL DETAIL
6' x 3/8" x 4'-9"
(1829 x 9 x 1448)
FOR CURVES WITH R < 70' (21.3m)

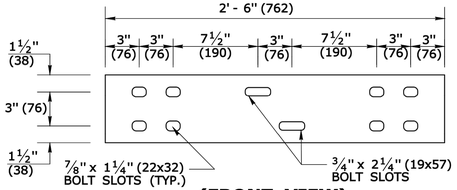


DETAIL A
DELINEATOR

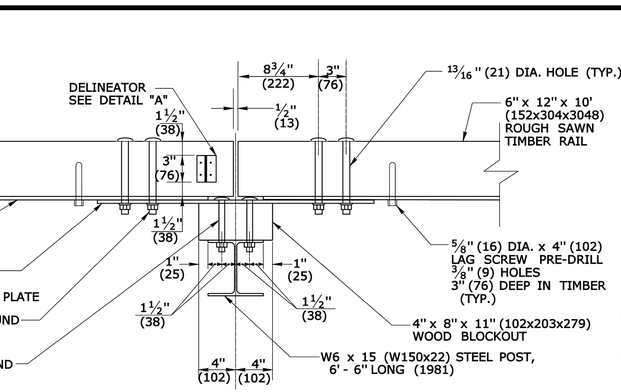
¼" x ½" (6x12) SLOT USE (4) 1" (25) LONG ½" (12) DIA. WOOD SCREWS FOR ATTACHING DELINEATOR. SCREW SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE W/ ASTM A-153.



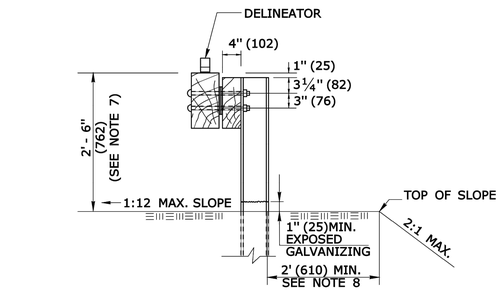
ELEVATION
STRAIGHT SPLICE PLATE



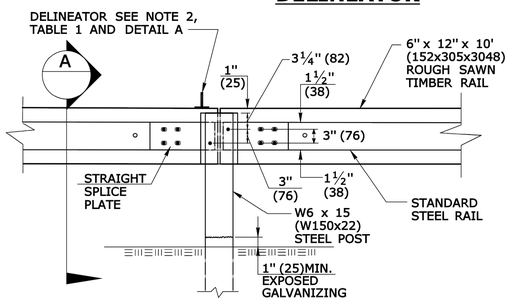
(FRONT VIEW)
STEEL SPLICE PLATE DETAIL
6" x 3/8" x 2'- 6"
(152x9x762)



POST CONNECTION FOR STRAIGHT SECTIONS



SECTION (A)
(NO CURB)



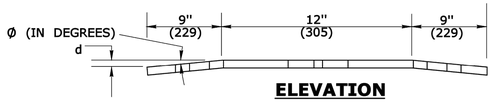
REAR VIEW ELEVATION
POST CONNECTION

TABLE 2

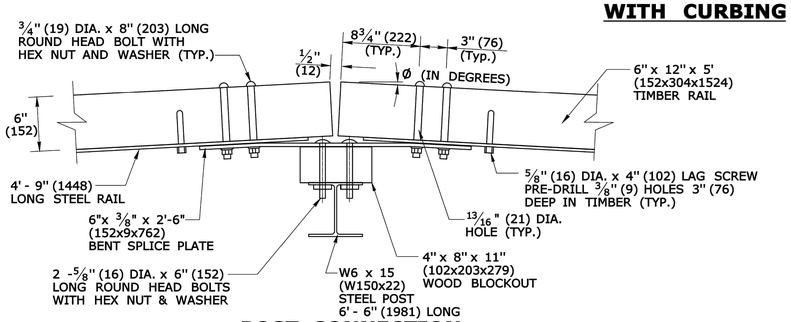
Radius R (ft.)(m)	Ø (Degrees)	d (in.)(mm)
35 (10.7)Min.	4.10	5/8(16)
40 (12.2)	3.58	9/16 (14)
45 (13.7)	3.18	½(13)
50 (15.2)	2.86	7/16 (11)
55 (16.8)	2.60	7/16 (11)
60 (18.3)	2.40	3/8(9)
65 (19.8)	2.20	3/8(9)
70 (21.3)	2.05	5/16 (8)
Over 70 (21.3)	Flat	0

TABLE 1

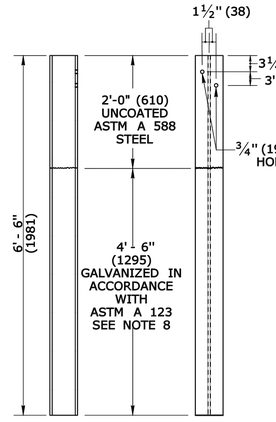
DELINEATOR SPACING	
CURVE RADIUS	SPACE
< 300' (91.4m)	20' (6.10m)
≥ 300' (91.4m)	50' (15.2m)



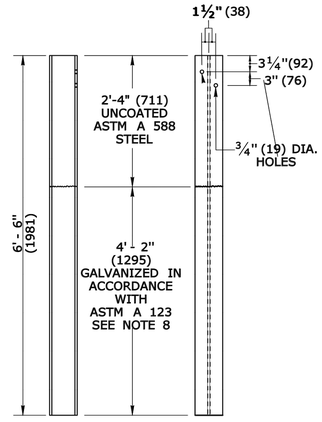
ELEVATION
BENT SPLICE PLATE



POST CONNECTION
FOR CURVES WITH R < 70' (21.3m)



SIDE VIEW FRONT VIEW
POST DETAIL
W6 X 15
(W150x22)
WITH CURBING



SIDE VIEW FRONT VIEW
POST DETAIL
W6 X 15
(W150x22)
NO CURBING

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

STEEL-BACKED TIMBER GUIDERAIL HARDWARE DETAILS

GENERAL NOTES:

1. MATERIALS AND CONSTRUCTION OF THE STEEL-BACKED TIMBER GUIDERAIL SHALL CONFORM TO SPECIAL PROVISION PROVIDED WITH THE PROJECT AND SHALL BE PAID FOR UNDER THE ITEM "STEEL-BACKED TIMBER GUIDERAIL - TYPE A".
2. DELINEATORS SHALL BE PLASTIC INVERTED T-SECTIONS IN ACCORDANCE WITH DETAIL "A". REFLECTORS SHALL BE SPACED IN ACCORDANCE WITH TABLE 1 , AND POSITIONED PERPENDICULAR TO THE ADJACENT EDGE OF LANE. DO NOT ATTACH REFLECTORS ON FLARE OR TERMINAL SECTIONS. REFLECTIVE SHEETING SHALL BE SILVER-WHITE ON ALL RAIL SECTIONS ADJACENT TO THE RIGHT SHOULDER, AND YELLOW ON RAIL SECTIONS ADJACENT TO THE LEFT SHOULDER OF TRAVEL LANES. DELINEATORS SHALL BE INCLUDED IN THE COST FOR "STEEL-BACKED TIMBER GUIDERAIL - TYPE A".
3. TWO ADDITIONAL ⅝" (16) DIA. X 4"(102) LONG LAG SCREWS AND WASHERS SHALL BE INSTALLED AT ALL MID-SPAN POINTS FOR STANDARD SYSTEMS.
4. ALL CONNECTION HARDWARE SHALL BE SUFFICIENTLY TIGHTENED TO ACCOMMODATE FOR SHRINKAGE OF THE WOOD ELEMENTS.
5. WHEN FURNISHING THE SHOP BENT SPLICE PLATES, USE THE MINIMUM BEND ANGLE AS SHOWN IN TABLE 2.
6. FOR RAILING SET ON A CURVE WITH RADII < 70' (21.3m) SPACE POSTS AT 5' (1524).
7. GUIDERAIL HEIGHT MAY VARY UP TO 2" (51) PLUS OR MINUS THE HEIGHT SHOWN IN THE DETAILS TO ACHIEVE A SMOOTH AND CONTINUOUS GUIDERAIL PROFILE.
8. 7'-6" (2286) LONG POSTS MAY BE USED IN LOCATIONS WHERE 2' (610)MIN SHELF IS NOT ATTAINABLE. GALVANIZED COATING LIMITS SHALL BE INCREASED BY 1' (305). PAYMENT FOR EXTRA LONG POSTS SHALL BE INCLUDED WITH THE ITEM FOR "STEEL-BACKED TIMBER GUIDERAIL - TYPE A".

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-13

File Path: J:\DWG\P2016\0663A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-13 Plotted: Thu, March 02, 2023 - 7:19 AM User: sbearce
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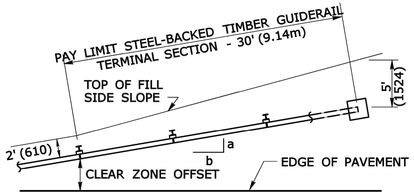
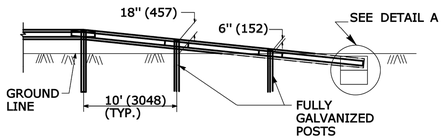


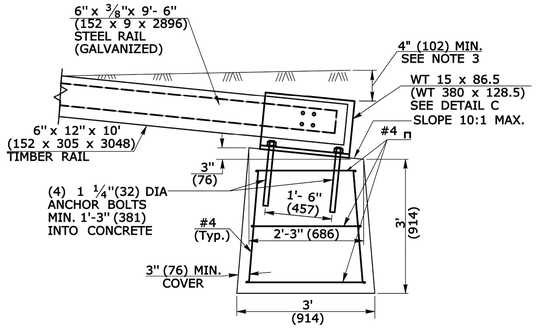
PLAN



ELEVATION

STELL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION (BURIED END ANCHORAGE TYPE I)

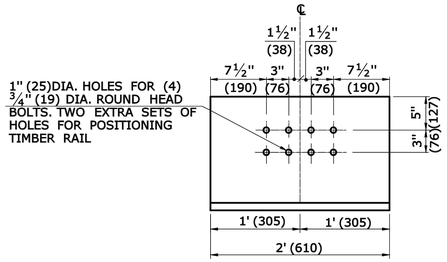
NOTE: SEE PLAN SHEETS FOR FLARE RATE a:b.



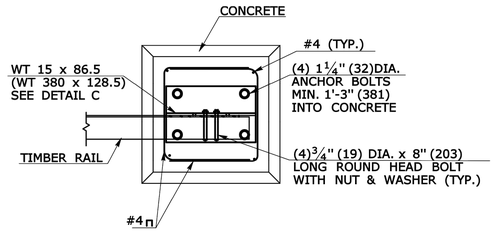
ELEVATION
DETAIL A

GENERAL NOTES:

1. MATERIALS AND CONSTRUCTION OF THE STEEL-BACKED TIMBER GUIDERAIL TERMINAL SECTIONS SHALL CONFORM TO THE SPECIAL PROVISIONS PROVIDED WITH THE PROJECT AND SHALL BE PAID FOR UNDER THE ITEM "STEEL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION". ALL HARDWARE IN CONTACT WITH THE GROUND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIAL PROVISION.
3. FOR TYPE 1 TERMINAL SECTION, EXTEND THE FLARE OUTSIDE BURY THE TERMINAL SECTION AND ELEMENT TO OBTAIN A MINIMUM COVER OF 4". SEE DETAIL A.
4. BEGIN THE FLARE AT THE NEAREST POST TO A TRANSITION POINT BETWEEN FILL AND CUT AS DIRECTED BY THE ENGINEER.
5. THE GUIDERAIL FLARE SHOWN ON THE PLAN SHEETS IS THE MINIMUM LENGTH AND RATE REQUIRED AS DIRECTED BY THE ENGINEER.
6. SEE STRUCTURES SUBSET FOR STEEL-BACKED TIMBER GUIDERAIL BRIDGE ATTACHMENT DETAILS.



ELEVATION
DETAIL C
WT 15 x 86.5 (GALVANIZED)
(WT 380 X 128.5)



PLAN
DETAIL D

PLAN VIEW FOR TYPE I ANCHOR

STEEL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-14

File Path: J:\DWG\P2016\0663\A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-14 Plotted: Thu, March 02, 2023 - 7:19 AM User: sbearce
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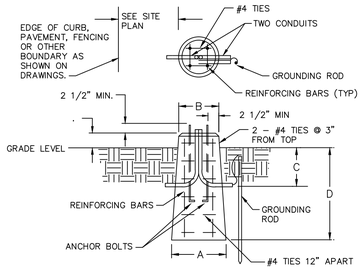
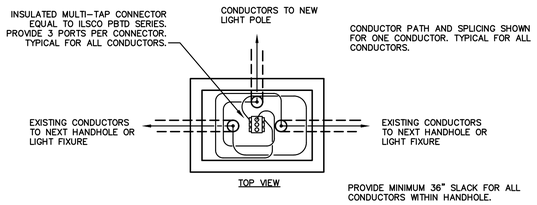


1. NUMBER, PATTERN AND SIZE OF ANCHOR BOLTS TO BE SPECIFIED BY LIGHTING POLE MANUFACTURER.
2. 4,000 PSI CONCRETE CURED FOR 7 DAYS PRIOR TO BACKFILL.
3. SONOTUBES SHALL BE CUT AND REMOVED DOWN 12" BELOW GRADE.
4. NO. 5 REINFORCING BARS, ASTM A 615, GRADE 60 WITH MINIMUM 2" COVER.
5. EACH LIGHTING POLE SHALL BE GROUNDED WITH 8' LONG 3/4" DIAMETER COPPER GROUNDING ROD AND #6 AWG BARE COPPER CONDUCTOR. TOP OF GROUNDING ROD SHALL BE 6" BELOW GRADE.

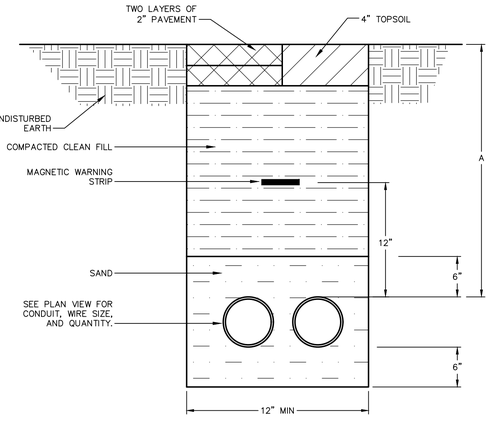
ROUND POLE BASE DIMENSIONS					
FIXTURE TYPE	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	DIMENSION "D"	DIMENSION "E"
1.1 THRU 1.6	30"	30"	24"	54"	4"
1.7 THRU 1.9	18"	18"	24"	42"	4"

NOTE: DINENSION "E" IS UNLESS OTHERWISE NOTED ON PLANS.

LIGHT POLE FOUNDATION
N.T.S.



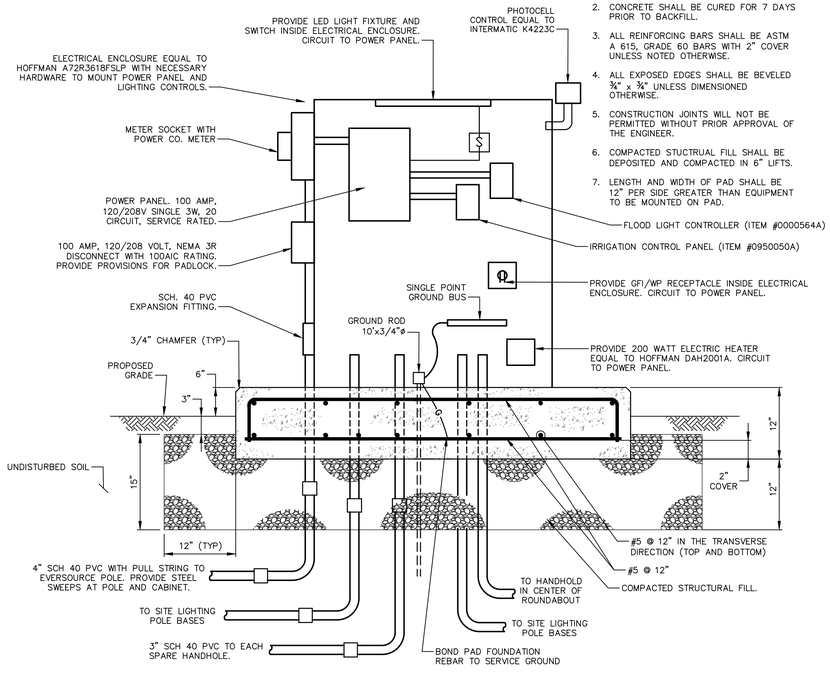
HANDHOLE SPLICING DETAIL
N.T.S.



CONDUIT DEPTHS	
SERVICE	DIM "A"
SECONDARY	24"
SITE LIGHTING	24"

NOTE:
WHEN MULTIPLE CONDUITS ARE BURIED TOGETHER THERE SHALL BE A MINIMUM OF 2" CLEARANCE BETWEEN CONDUITS.

TRENCHING AND BACKFILLING (ELECTRICAL)
N.T.S.



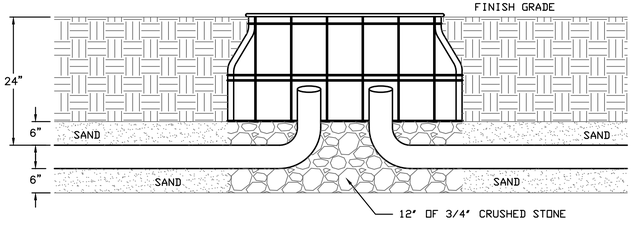
DECORATIVE LIGHT CONTROL CABINET ELECTRICAL SERVICE
N.T.S.

NOTES:

1. CONCRETE SHALL BE 4,000 PSI CONCRETE.
2. CONCRETE SHALL BE CURED FOR 7 DAYS PRIOR TO BACKFILL.
3. ALL REINFORCING BARS SHALL BE ASTM A 615, GRADE 60 BARS WITH 2" COVER UNLESS NOTED OTHERWISE.
4. ALL EXPOSED EDGES SHALL BE BEVELED ¾" x ¾" UNLESS DIMENSIONED OTHERWISE.
5. CONSTRUCTION JOINTS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
6. COMPACTED STUCTRUAL FILL SHALL BE DEPOSITED AND COMPACTED IN 6" LIFTS.
7. LENGTH AND WIDTH OF PAD SHALL BE 12" PER SIDE GREATER THAN EQUIPMENT TO BE MOUNTED ON PAD.

PROVIDE IN-GROUND HANDHOLE BOX:
- HIGH DENSITY REINFORCED CONCRETE
- H-20 RATING
- STEEL CHECKER COVER, BOLT DOWN
- 'ELECTRIC' OR 'TELCOM' ENGRAVED IN COVER

EQUAL TO OLDCASTLE PRECAST MODEL B1730



CONCRETE HANDHOLE (SPECIAL)
N.T.S.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

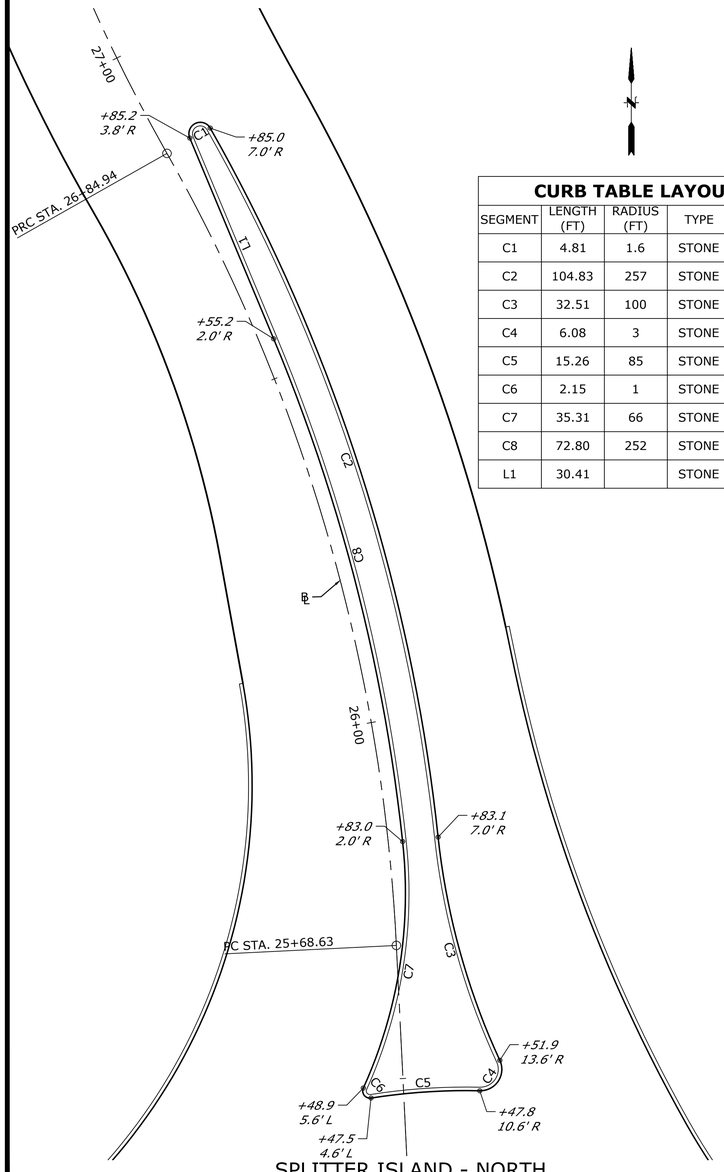
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-15

File Path: J:\DWG\P2016\0663\A30\Civil\Details\20160663A30_MDS01.dwg Layout: MDS-15 Plotted: Thu, March 02, 2023 - 7:19 AM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

CURB STYLE SCHEDULE	
1 6"x18" GRANITE STONE CURBING (A) WITH 4" REVEAL	5 14"X18" GRANITE CURVED STONE (E) CURBING (TRANSITION 4" TO FLUSH)
2 6"X20" GRANITE CURVED STONE (B) CURBING WITH 4" REVEAL	6 6"X20" GRANITE CURVED STONE (B) CURBING WITH 6" REVEAL
3 6"X14" GRANITE STONE CURBING (C) (FLUSH)	7 6"X20" GRANITE CURVED STONE (B) CURBING WITH 2" REVEAL
4 14"X18" GRANITE STONE CURBING (D) (TRANSITION 4" TO FLUSH)	

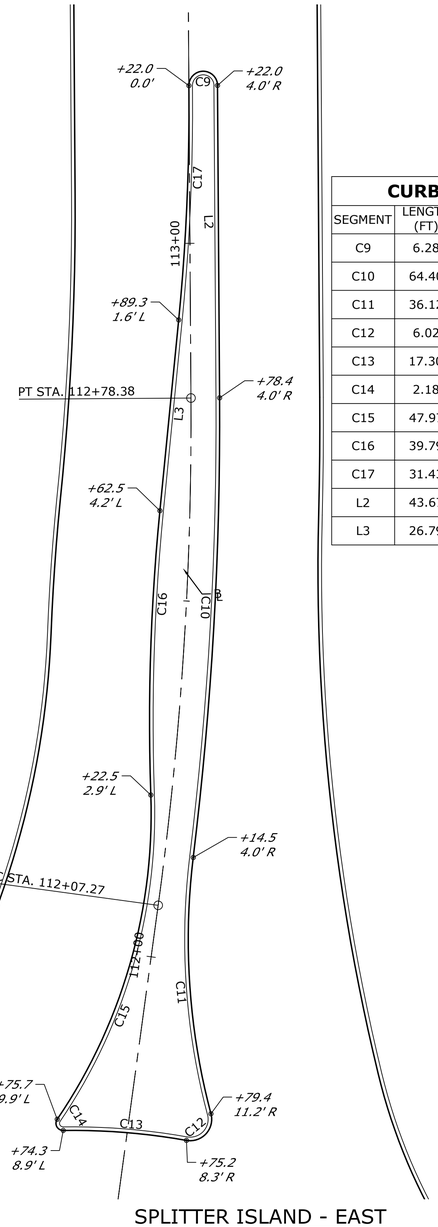


SPLITTER ISLAND - NORTH
N.T.S

CURB TABLE LAYOUT				
SEGMENT	LENGTH (FT)	RADIUS (FT)	TYPE	STYLE
C1	4.81	1.6	STONE	3
C2	104.83	257	STONE	1,4
C3	32.51	100	STONE	2
C4	6.08	3	STONE	2
C5	15.26	85	STONE	2
C6	2.15	1	STONE	2
C7	35.31	66	STONE	2
C8	72.80	252	STONE	1
L1	30.41		STONE	1,4

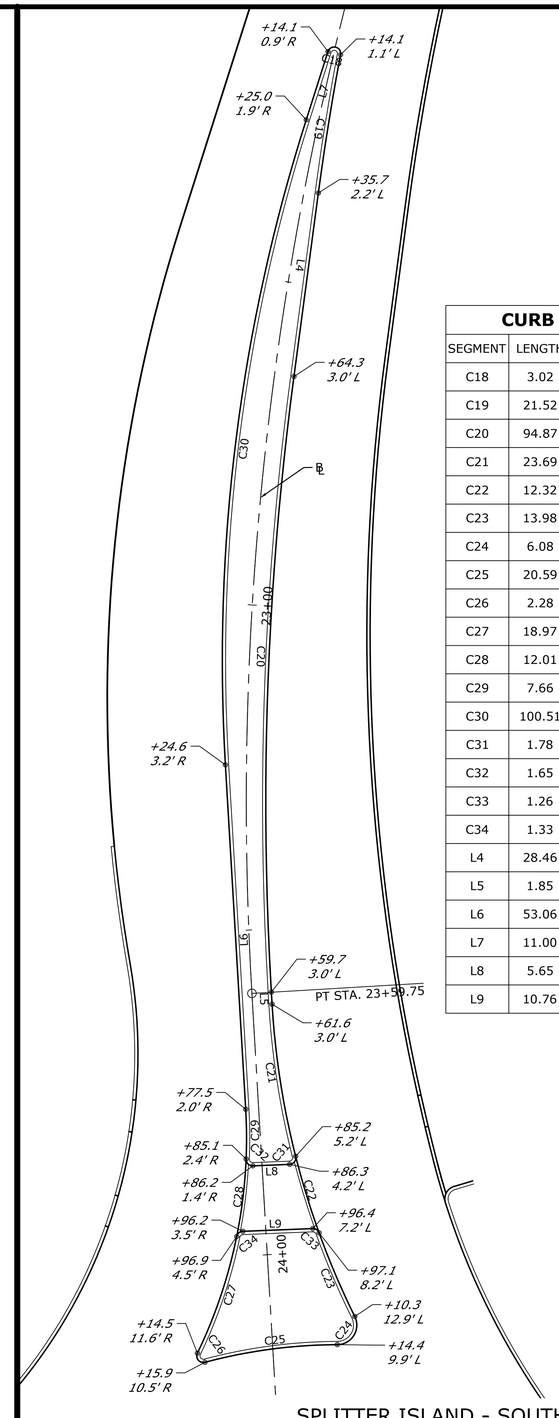
(A) PAID UNDER ITEM #0813041
(B) PAID UNDER ITEM #0813052
(C) PAID UNDER ITEM #0813040
(D) PAID UNDER ITEM #0813057
(E) PAID UNDER ITEM #0813058

* SEE MDS-01 & MDS-02 FOR ALL GRANITE CURBING DETAILS



SPLITTER ISLAND - EAST
N.T.S

CURB TABLE LAYOUT				
SEGMENT	LENGTH (FT)	RADIUS (FT)	TYPE	STYLE
C9	6.28	2	STONE	3
C10	64.40	504	STONE	1
C11	36.12	95	STONE	2
C12	6.02	3	STONE	2
C13	17.30	90	STONE	2
C14	2.18	1	STONE	2
C15	47.97	76	STONE	2
C16	39.79	300	STONE	1
C17	31.43	300	STONE	1,4
L2	43.67		STONE	1,4
L3	26.79		STONE	1



SPLITTER ISLAND - SOUTH
N.T.S

CURB TABLE LAYOUT				
SEGMENT	LENGTH	RADIUS	TYPE	STYLE
C18	3.02	1	STONE	3
C19	21.52	401	STONE	1,4
C20	94.87	497	STONE	1
C21	23.69	125	STONE	1,4
C22	12.32	125	STONE	3
C23	13.98	125	STONE	1
C24	6.08	3	STONE	2
C25	20.59	80	STONE	2
C26	2.28	1	STONE	2
C27	18.97	76	STONE	2,5
C28	12.01	76	STONE	3
C29	7.66	76	STONE	2
C30	100.51	274	STONE	1
C31	1.78	1	STONE	3
C32	1.65	1	STONE	2
C33	1.26	1	STONE	2
C34	1.33	1	STONE	3
L4	28.46		STONE	1
L5	1.85		STONE	1
L6	53.06		STONE	1
L7	11.00		STONE	1,4
L8	5.65		STONE	4
L9	10.76		STONE	4

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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TOWN OF AVON

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REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-16

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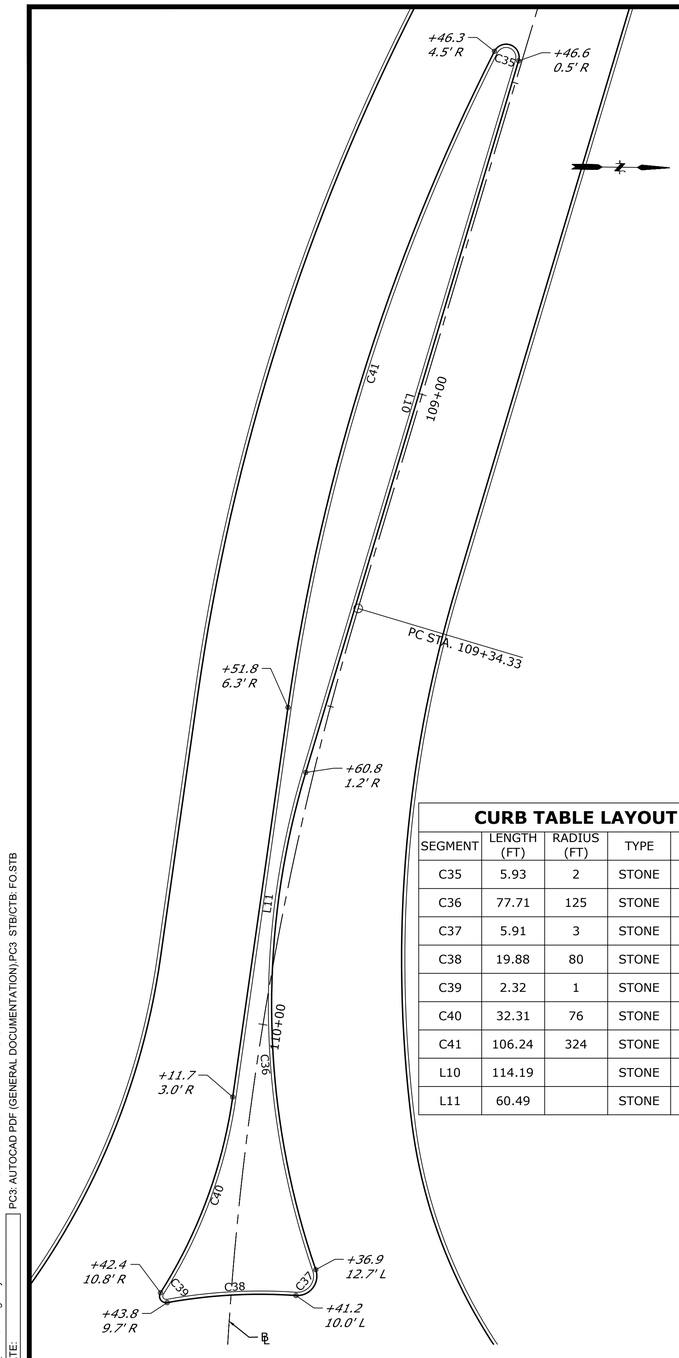
MS VIEW:



CURB TABLE LAYOUT

SEGMENT	LENGTH (FT)	RADIUS (FT)	TYPE	STYLE
C35	5.93	2	STONE	3
C36	77.71	125	STONE	1
C37	5.91	3	STONE	2
C38	19.88	80	STONE	2
C39	2.32	1	STONE	2
C40	32.31	76	STONE	2
C41	106.24	324	STONE	1,4
L10	114.19		STONE	1,4
L11	60.49		STONE	1

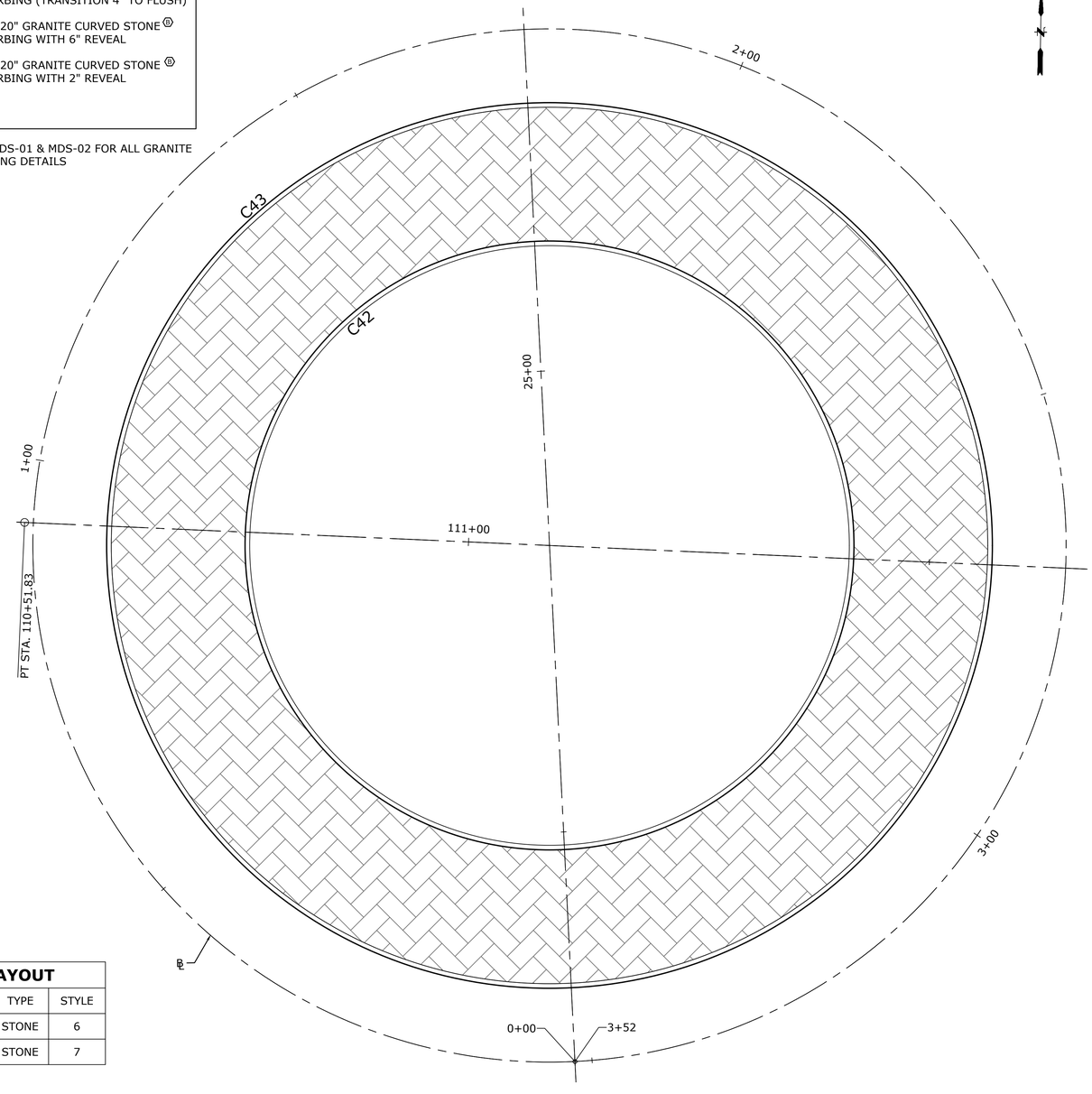
SPLITTER ISLAND - WEST
N.T.S

CURB STYLE SCHEDULE

1	6"x18" GRANITE STONE CURBING (A) WITH 4" REVEAL	5	14"X18" GRANITE CURVED STONE (E) CURBING (TRANSITION 4" TO FLUSH)
2	6"X20" GRANITE CURVED STONE (B) CURBING WITH 4" REVEAL	6	6"X20" GRANITE CURVED STONE (B) CURBING WITH 6" REVEAL
3	6"X14" GRANITE STONE CURBING (C) (FLUSH)	7	6"X20" GRANITE CURVED STONE (B) CURBING WITH 2" REVEAL
4	14"X18" GRANITE STONE CURBING (D) (TRANSITION 4" TO FLUSH)		

(A) PAID UNDER ITEM #0813041
(B) PAID UNDER ITEM #0813052
(C) PAID UNDER ITEM #0813040
(D) PAID UNDER ITEM #0813057
(E) PAID UNDER ITEM #0813058

* SEE MDS-01 & MDS-02 FOR ALL GRANITE CURBING DETAILS



CURB TABLE LAYOUT

SEGMENT	LENGTH (FT)	RADIUS (FT)	TYPE	STYLE
C42	207.35	33	STONE	6
C43	301.59	48	STONE	7

TRUCK APRON AND CENTRAL ISLAND
N.T.S

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: N.T.S.
VERT.:
DATUM:
HORZ.: NAD83
VERT.:
0
GRAPHIC SCALE

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TOWN OF AVON

MISCELLANEOUS DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

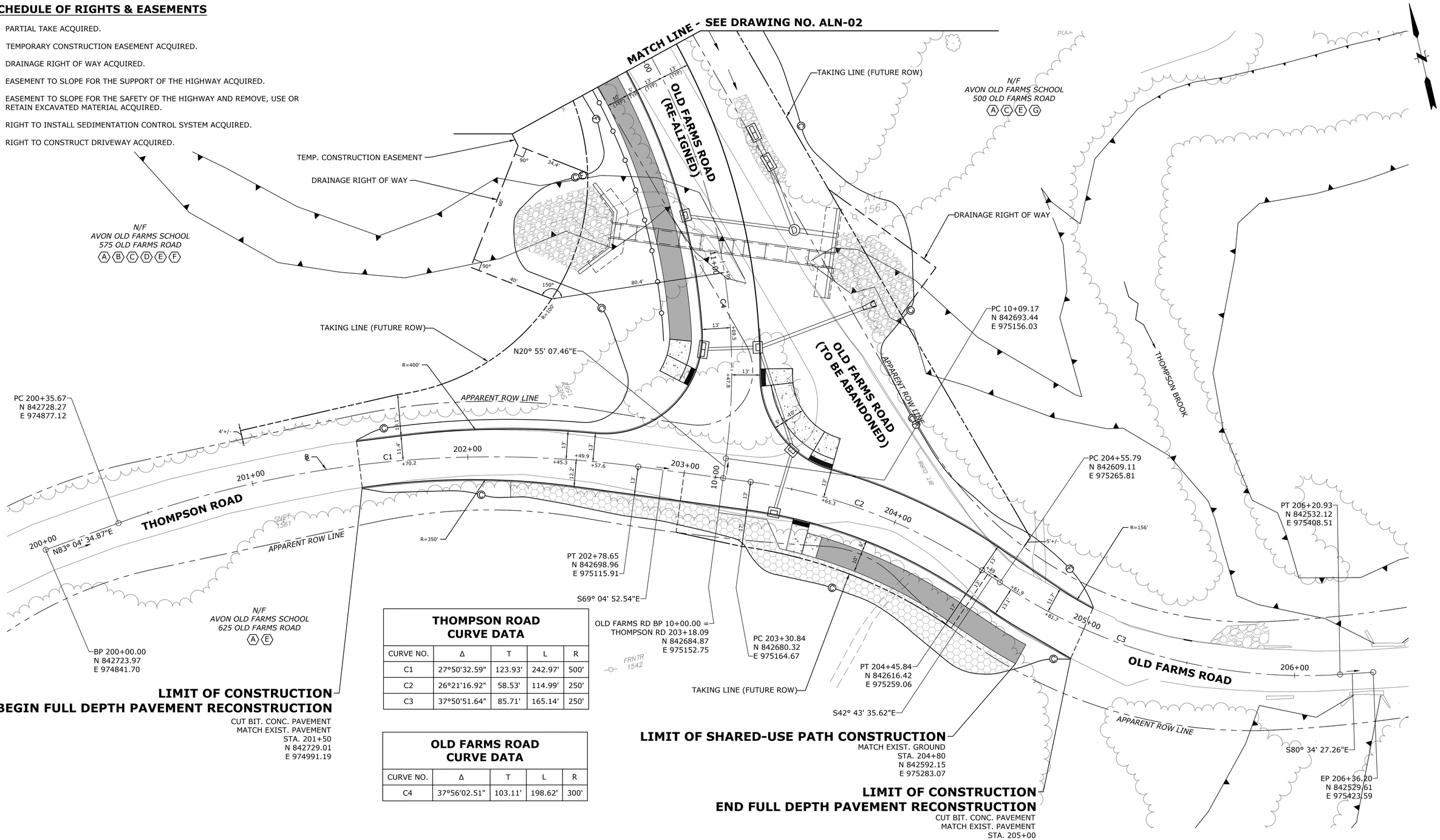
PROJ. No.: 20160663.A30
DATE: MARCH 2023

MDS-17

File: J:\DWG\P2016\60663\A30\Civil\Details\20160663A30_MDS02.dwg Layout: MDS-17 Plotted: 2023-03-02 6:37 AM Saved: 2023-03-02 6:36 AM User: SBearce
PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: FO.STB
LAYER STATE:
MS VIEW:

SCHEDULE OF RIGHTS & EASEMENTS

- (A) PARTIAL TAKE ACQUIRED.
- (B) TEMPORARY CONSTRUCTION EASEMENT ACQUIRED.
- (C) DRAINAGE RIGHT OF WAY ACQUIRED.
- (D) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY ACQUIRED.
- (E) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL ACQUIRED.
- (F) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED.
- (G) RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED.



THOMPSON ROAD CURVE DATA

CURVE NO.	Δ	T	L	R
C1	27°50'32.59"	123.93'	242.97'	500'
C2	26°21'16.92"	58.53'	114.99'	250'
C3	37°50'51.64"	85.71'	165.14'	250'

OLD FARMS ROAD CURVE DATA

CURVE NO.	Δ	T	L	R
C4	37°56'02.51"	103.11'	198.62'	300'

LIMIT OF CONSTRUCTION
BEGIN FULL DEPTH PAVEMENT RECONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXIST. PAVEMENT
STA. 201+50
N 842729.01
E 974991.19

LIMIT OF SHARED-USE PATH CONSTRUCTION
MATCH EXIST. GROUND
STA. 204+80
N 842592.15
E 975283.07

LIMIT OF CONSTRUCTION
END FULL DEPTH PAVEMENT RECONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXIST. PAVEMENT
STA. 205+00
N 842579.45
E 975298.52

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ALIGNMENT LAYOUT PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

ALN-01

File Path: J:\DWG\P2016\20160663A30\Civil\Plan\20160663A30_ALN01.dwg Layout: ALN-01 Plotted: Tue, March 14, 2023 - 3:42 PM User: sbearce
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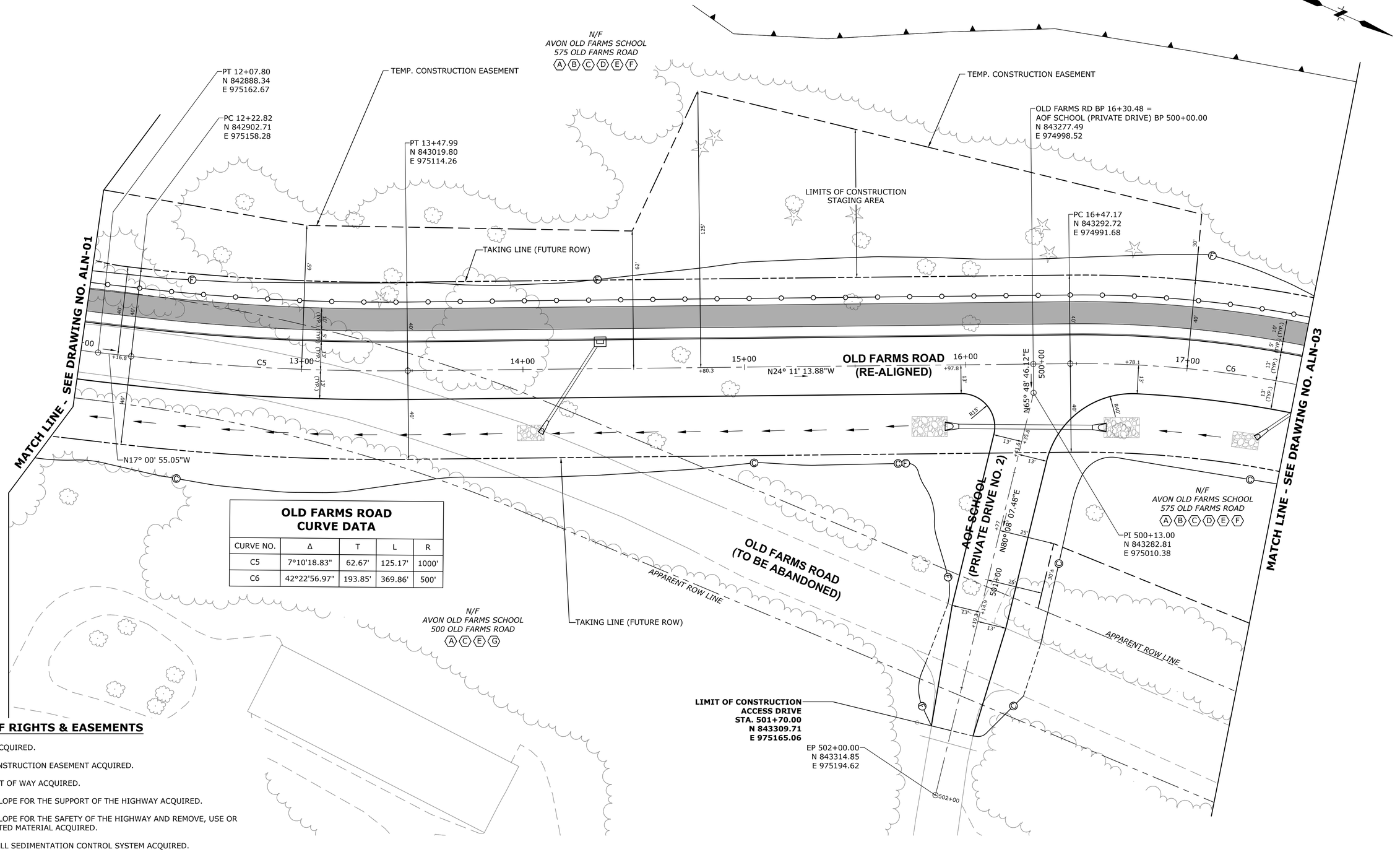

OLD FARMS ROAD CURVE DATA

CURVE NO.	Δ	T	L	R
C5	7°10'18.83"	62.67'	125.17'	1000'
C6	42°22'56.97"	193.85'	369.86'	500'

SCHEDULE OF RIGHTS & EASEMENTS

- (A) PARTIAL TAKE ACQUIRED.
- (B) TEMPORARY CONSTRUCTION EASEMENT ACQUIRED.
- (C) DRAINAGE RIGHT OF WAY ACQUIRED.
- (D) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY ACQUIRED.
- (E) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL ACQUIRED.
- (F) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED.
- (G) RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
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DATUM:
HORZ.: NAD 83
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TOWN OF AVON

ALIGNMENT LAYOUT PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

ALN-02

File Path: J:\DWG\P20\160663\A30\Civil\Plan\20160663A30_ALN01.dwg Layout: ALN-02 Plotted: Tue, March 14, 2023 - 3:42 PM User: sbearce
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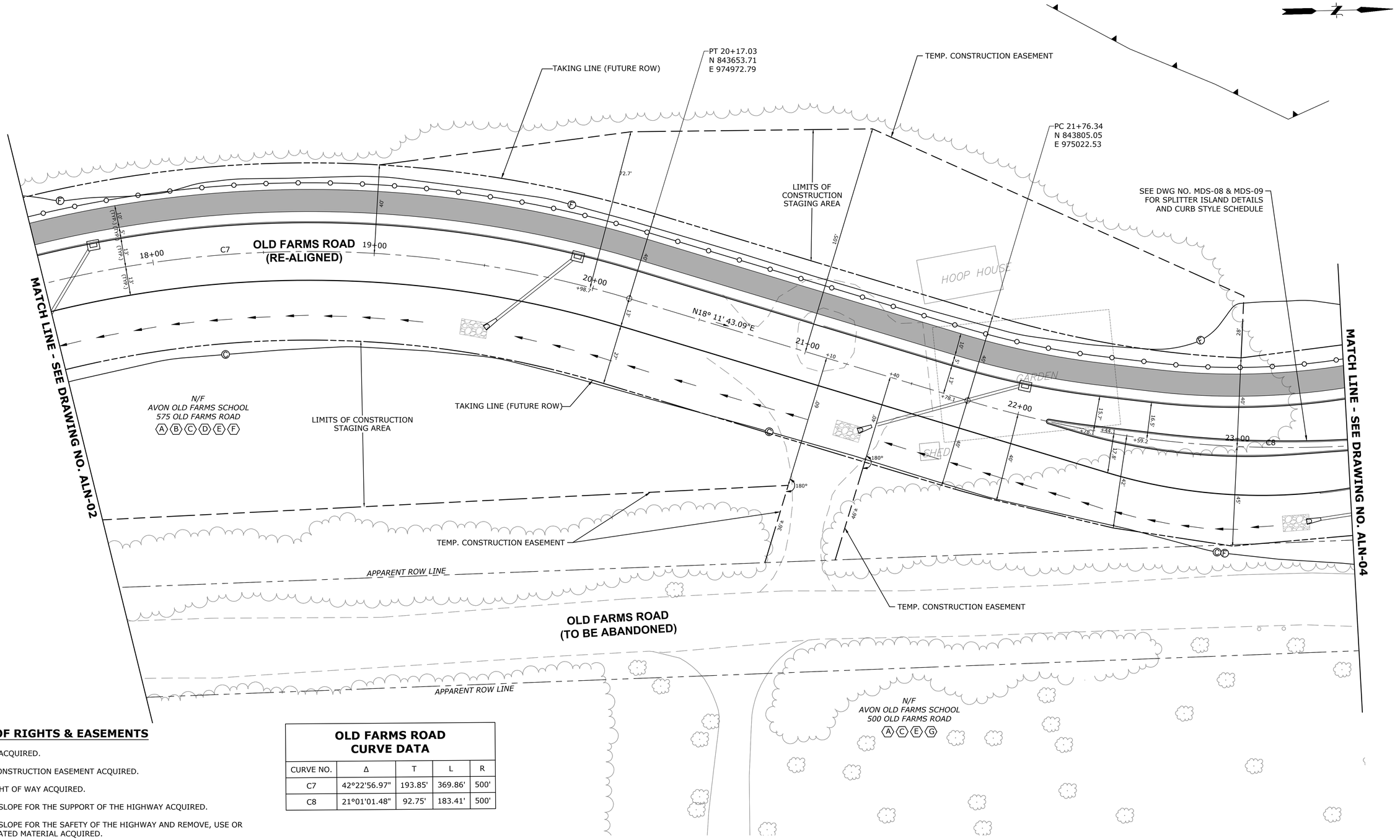

SCHEDULE OF RIGHTS & EASEMENTS

- Ⓐ PARTIAL TAKE ACQUIRED.
- Ⓑ TEMPORARY CONSTRUCTION EASEMENT ACQUIRED.
- Ⓒ DRAINAGE RIGHT OF WAY ACQUIRED.
- Ⓓ EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY ACQUIRED.
- Ⓔ EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL ACQUIRED.
- Ⓕ RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED.
- Ⓖ RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED.

OLD FARMS ROAD CURVE DATA

CURVE NO.	Δ	T	L	R
C7	42°22'56.97"	193.85'	369.86'	500'
C8	21°01'01.48"	92.75'	183.41'	500'

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ALIGNMENT LAYOUT PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

ALN-03

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_ALN01.dwg Layout: ALN-03 Plotted: Tue, March 14, 2023 - 3:42 PM User: sbearce
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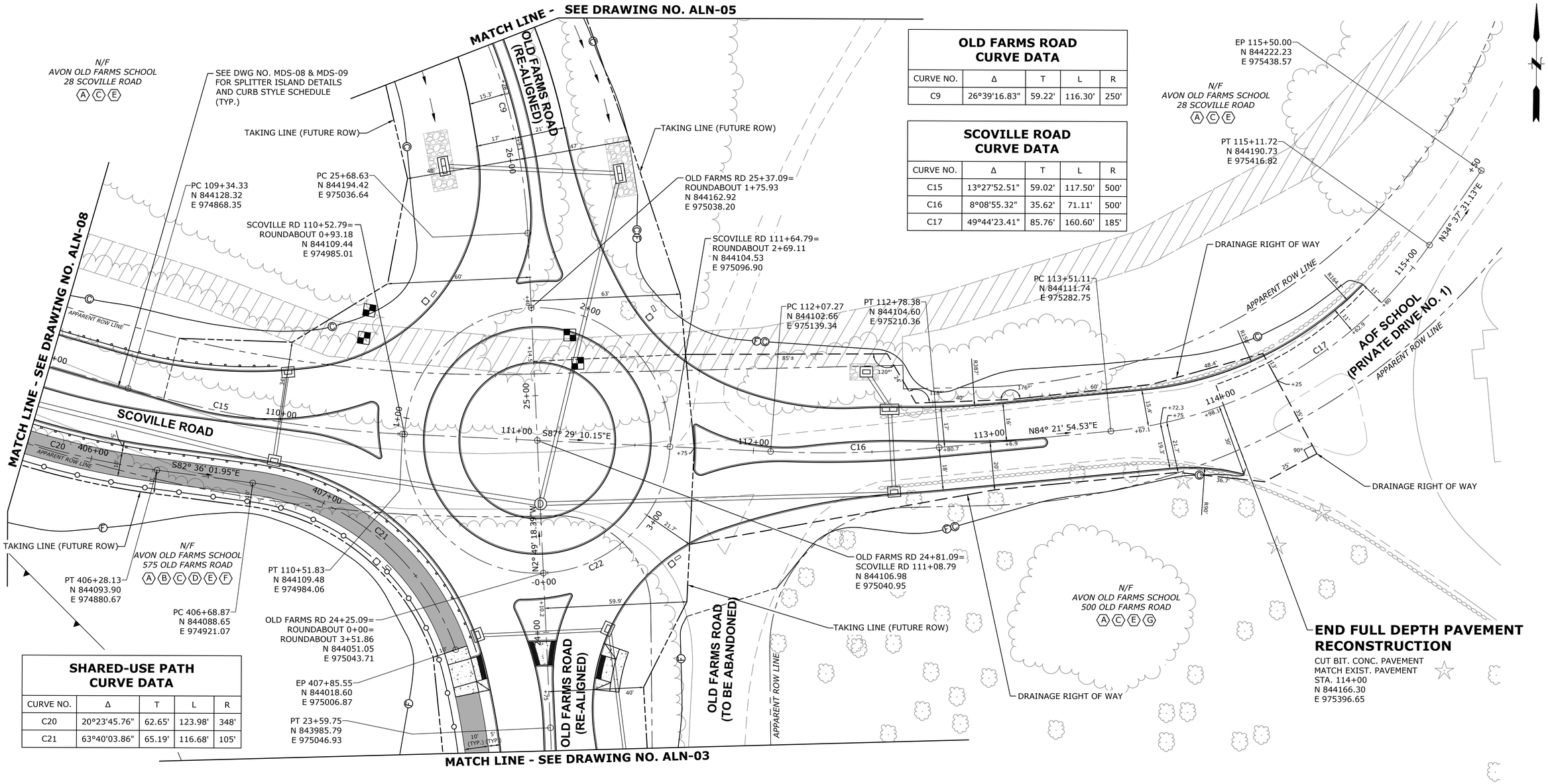

OLD FARMS ROAD CURVE DATA

CURVE NO.	Δ	T	L	R
C9	26°39'16.83"	59.22'	116.30'	250'

SCOVILLE ROAD CURVE DATA

CURVE NO.	Δ	T	L	R
C15	13°27'52.51"	59.02'	117.50'	500'
C16	8°08'55.32"	35.62'	71.11'	500'
C17	49°44'23.41"	85.76'	160.60'	185'

SHARED-USE PATH CURVE DATA

CURVE NO.	Δ	T	L	R
C20	20°23'45.76"	62.65'	123.98'	348'
C21	63°40'03.86"	65.19'	116.68'	105'

ROUNDABOUT CURVE DATA

CURVE NO.	Δ	T	L	R
C22	359°59'56.32"	0.00'	351.86'	56'

SCHEDULE OF RIGHTS & EASEMENTS

- (A) PARTIAL TAKE ACQUIRED.
- (B) TEMPORARY CONSTRUCTION EASEMENT ACQUIRED.
- (C) DRAINAGE RIGHT OF WAY ACQUIRED.
- (D) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY ACQUIRED.
- (E) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL ACQUIRED.
- (F) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED.
- (G) RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SEAL

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HORZ.: NAD 83
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GRAPHIC SCALE

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TOWN OF AVON

ALIGNMENT LAYOUT PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

ALN-04

File Path: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_ALN01.dwg Layout: ALN-04 Plotted: Tue, March 14, 2023 - 3:42 PM User: sbearce
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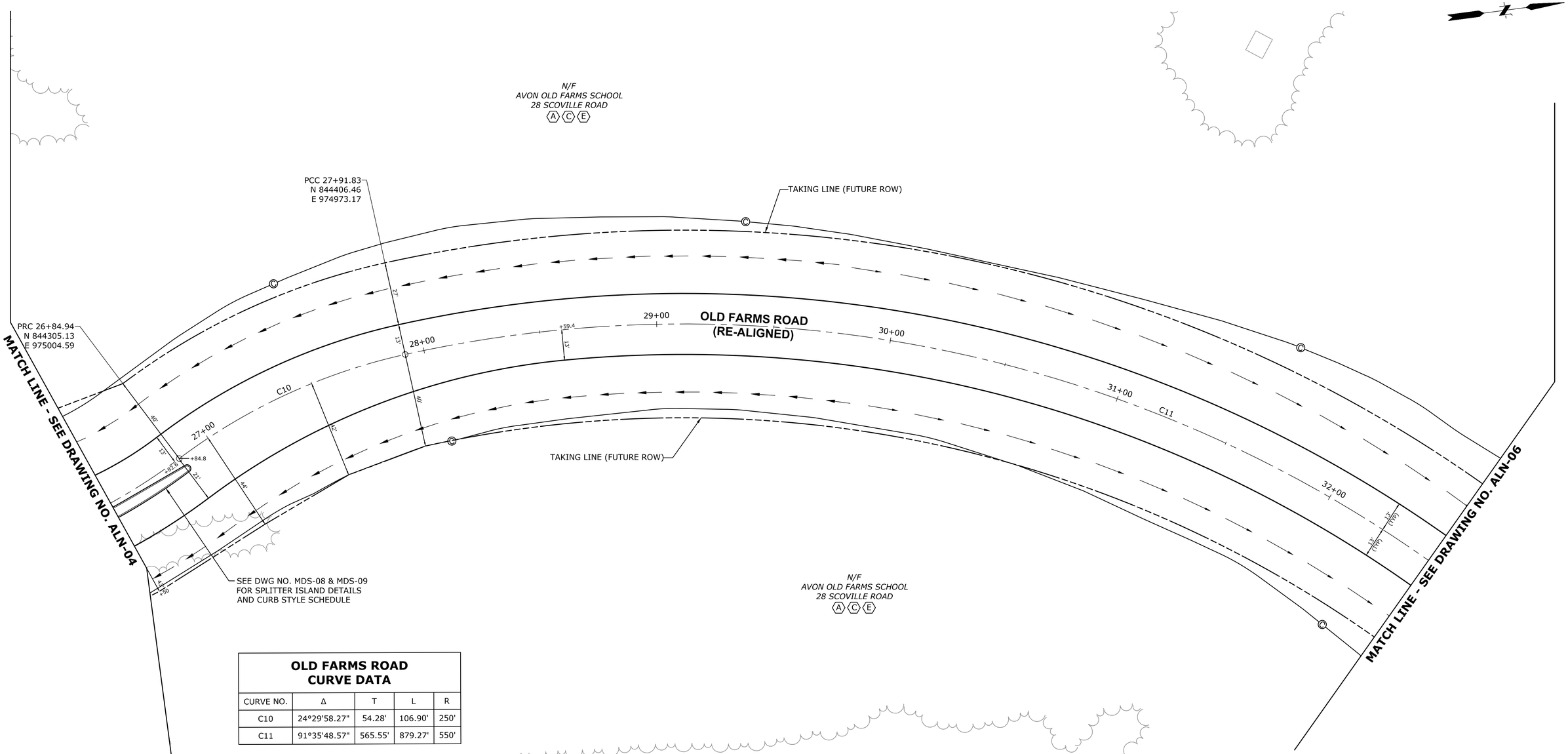

OLD FARMS ROAD CURVE DATA				
CURVE NO.	Δ	T	L	R
C10	24°29'58.27"	54.28'	106.90'	250'
C11	91°35'48.57"	565.55'	879.27'	550'

SCHEDULE OF RIGHTS & EASEMENTS

- (A) PARTIAL TAKE ACQUIRED.
- (B) TEMPORARY CONSTRUCTION EASEMENT ACQUIRED.
- (C) DRAINAGE RIGHT OF WAY ACQUIRED.
- (D) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY ACQUIRED.
- (E) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL ACQUIRED.
- (F) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED.
- (G) RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
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ALIGNMENT LAYOUT PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

ALN-05

File Path: J:\DWG\P2016\0663A30\Civil\Plan\20160663A30_ALN01.dwg Layout: ALN-05 Plotted: Tue, March 14, 2023 - 3:43 PM User: sbearce
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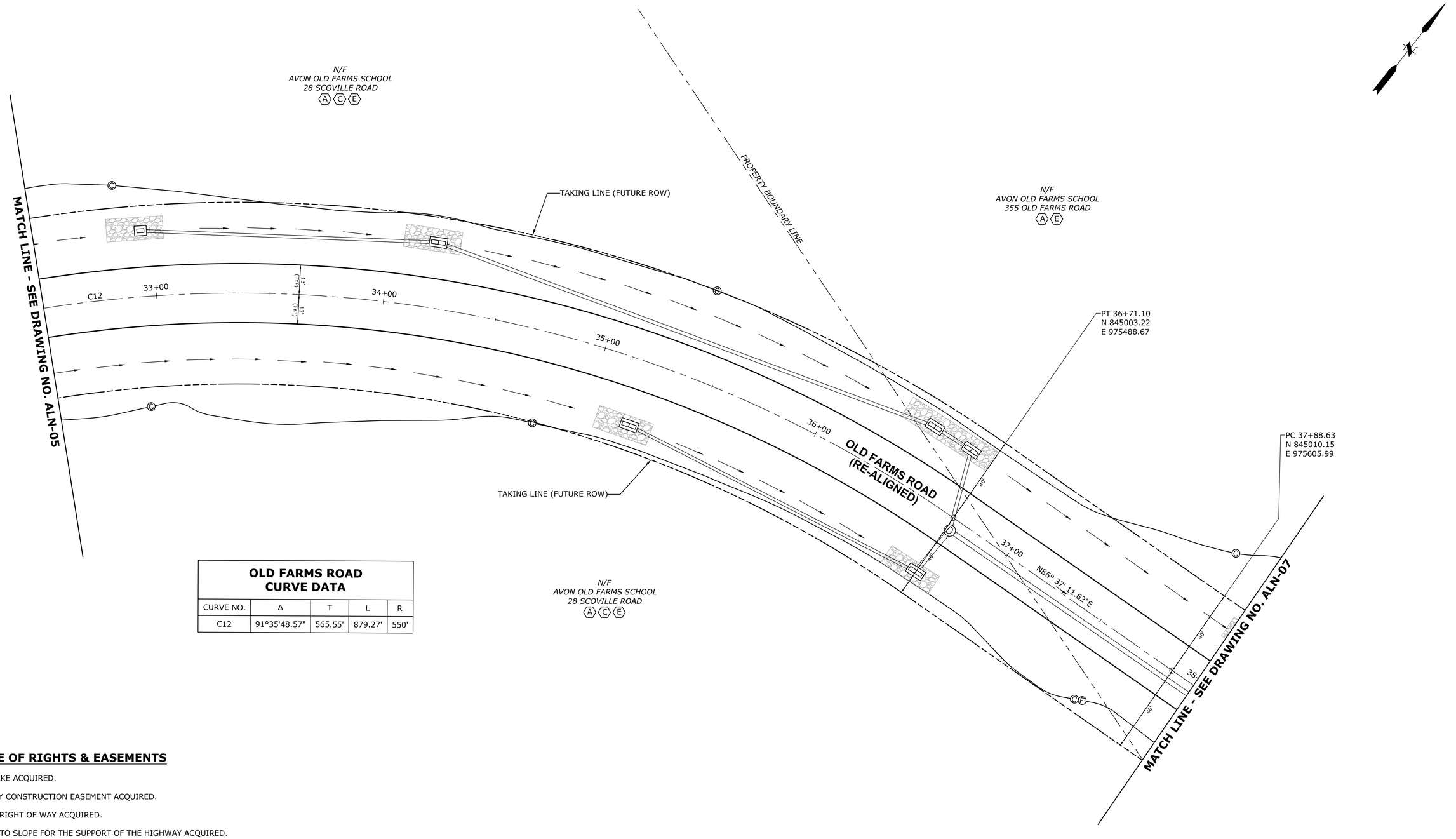

OLD FARMS ROAD CURVE DATA				
CURVE NO.	Δ	T	L	R
C12	91°35'48.57"	565.55'	879.27'	550'

SCHEDULE OF RIGHTS & EASEMENTS

- (A) PARTIAL TAKE ACQUIRED.
- (B) TEMPORARY CONSTRUCTION EASEMENT ACQUIRED.
- (C) DRAINAGE RIGHT OF WAY ACQUIRED.
- (D) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY ACQUIRED.
- (E) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL ACQUIRED.
- (F) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED.
- (G) RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ALIGNMENT LAYOUT PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

ALN-06

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_ALN01.dwg Layout: ALN-06 Plotted: Tue, March 14, 2023 - 3:43 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

SCHEDULE OF RIGHTS & EASEMENTS

- (A) PARTIAL TAKE ACQUIRED.
- (B) TEMPORARY CONSTRUCTION EASEMENT ACQUIRED.
- (C) DRAINAGE RIGHT OF WAY ACQUIRED.
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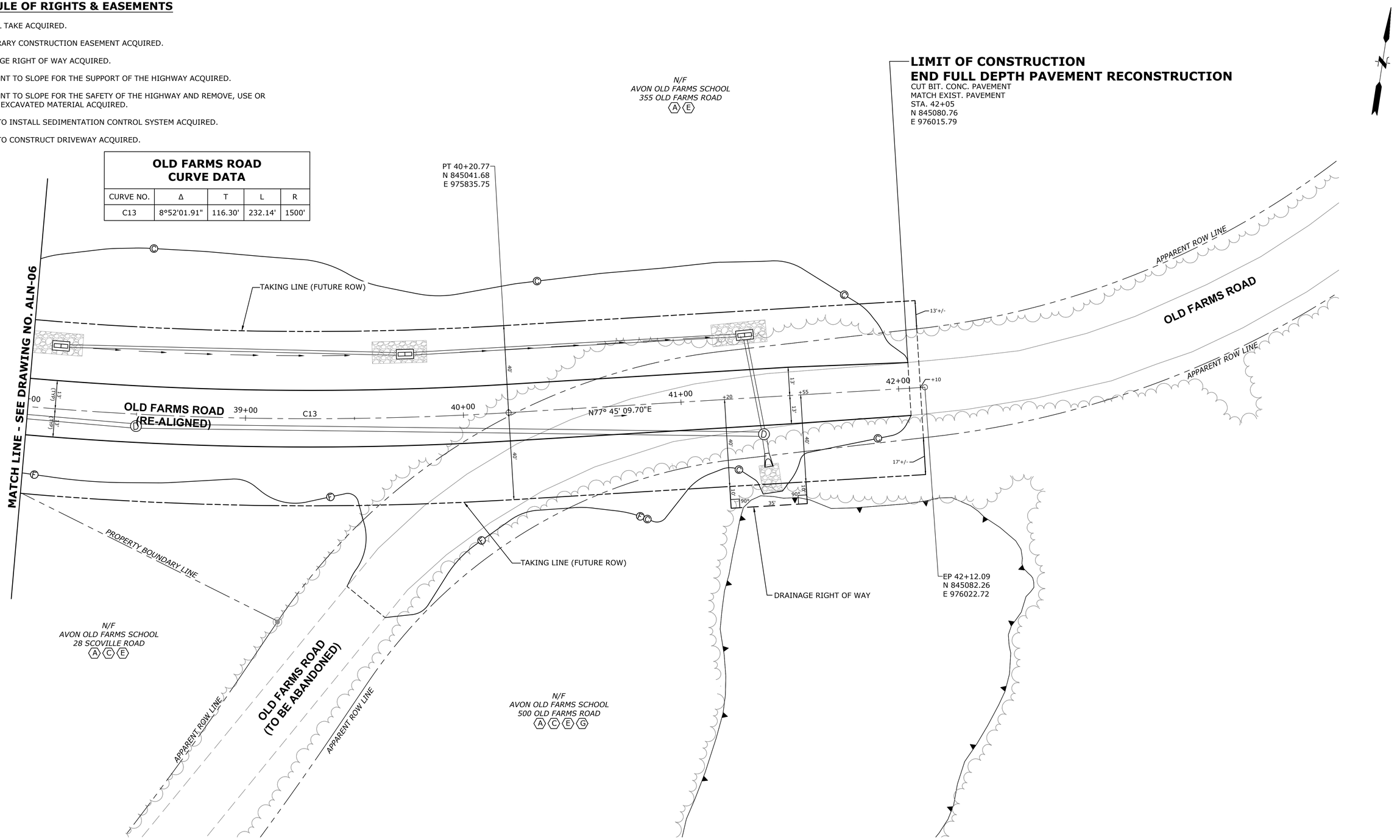
- (F) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM ACQUIRED.
- (G) RIGHT TO CONSTRUCT DRIVEWAY ACQUIRED.

OLD FARMS ROAD CURVE DATA

CURVE NO.	Δ	T	L	R
C13	8°52'01.91"	116.30'	232.14'	1500'



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
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TOWN OF AVON

ALIGNMENT LAYOUT PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

ALN-07

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_ALN01.dwg Layout: ALN-07 Plotted: Tue, March 14, 2023 - 3:43 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

SCHEDULE OF RIGHTS & EASEMENTS

- (A) PARTIAL TAKE ACQUIRED.
- (B) TEMPORARY CONSTRUCTION EASEMENT ACQUIRED.
- (C) DRAINAGE RIGHT OF WAY ACQUIRED.
- (D) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY ACQUIRED.
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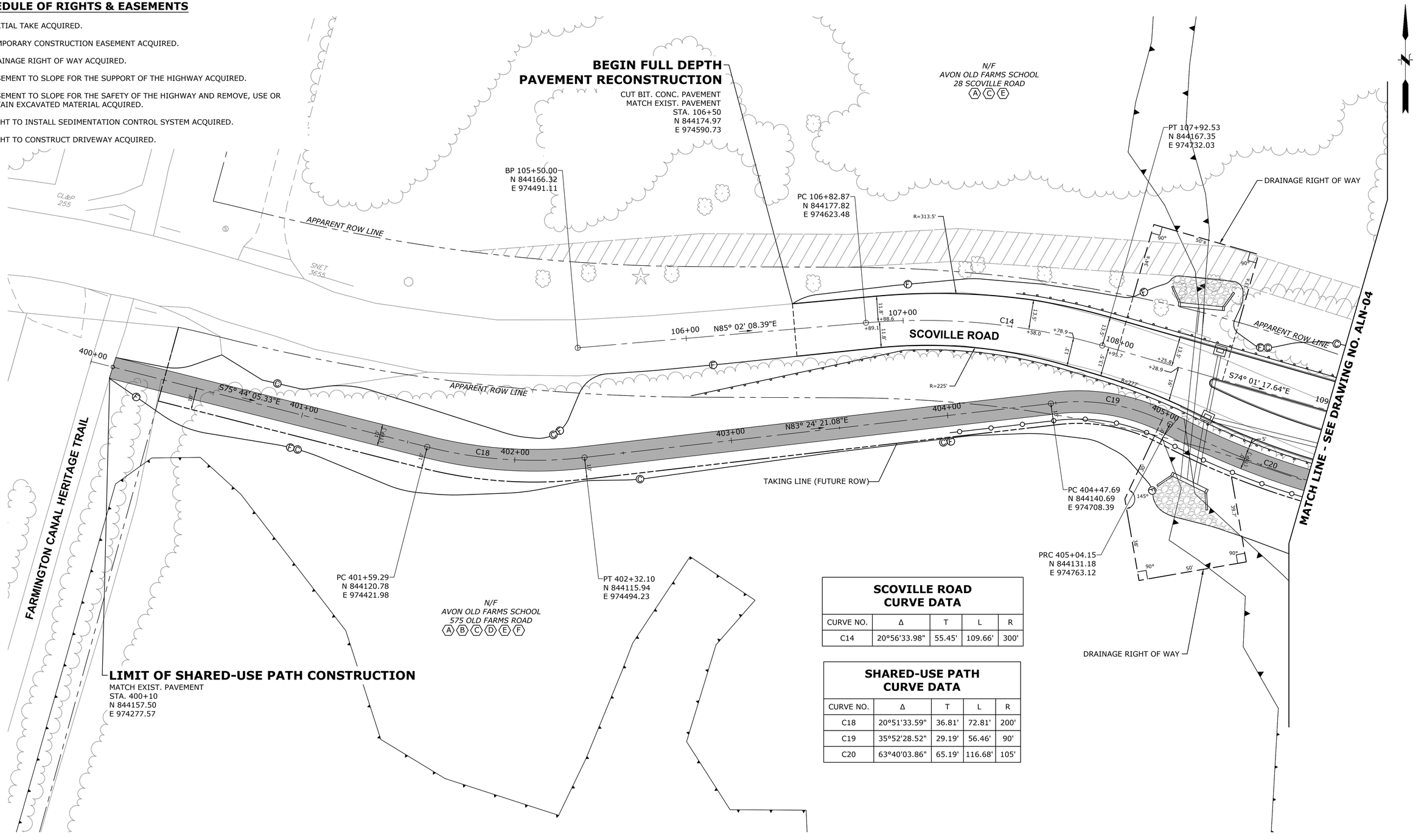

SCOVILLE ROAD CURVE DATA

CURVE NO.	Δ	T	L	R
C14	20°56'33.98"	55.45'	109.66'	300'

SHARED-USE PATH CURVE DATA

CURVE NO.	Δ	T	L	R
C18	20°51'33.59"	36.81'	72.81'	200'
C19	35°52'28.52"	29.19'	56.46'	90'
C20	63°40'03.86"	65.19'	116.68'	105'

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
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TOWN OF AVON

ALIGNMENT LAYOUT PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

ALN-08

File Path: J:\DWG\P20160663\A30\Civil\Plan\20160663A30_ALN01.dwg Layout: ALN-08 Plotted: Tue, March 14, 2023 - 3:43 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

LEGEND

COMMUNITY CONNECTIVITY GRANT - LIMIT OF WORK

* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM

MATCH LINE - SEE DRAWING NO. HPN-02

OLD FARMS ROAD (RE-ALIGNED)

APPARENT ROW LINE

TAKING LINE (FUTURE ROW)

FURNISH AND PLACE 4" TOPSOIL W/ CONSERVATION SEEDING (TYP.)

N/F AVON OLD FARMS SCHOOL 500 OLD FARMS ROAD

APPROX. LIMIT OF WETLANDS

DRAINAGE RIGHT OF WAY

RELOCATE UTILITY POLE AND OH WIRES (BY OTHERS)

END CONC. CURBING STA. 10+68

RELOCATE GAS MAIN (BY OTHERS)

*CONC. SIDEWALK RAMP (TYPE 12)

*CONC. SIDEWALK (10' WIDE)

REMOVE EXIST. BIT. CONC. PAVEMENT AND BCLC, RESTORE W/ 4" TOPSOIL AND CONSERVATION SEEDING

*PAVED SHARED USE-PATH (10' WIDE)

FURNISH AND PLACE 4" TOPSOIL W/ CONSERVATION SEEDING (TYP.)

DRAINAGE RIGHT OF WAY

*120 LF - THREE RAIL WOOD FENCE

313 LF - CONC. CURBING

APPROX. LIMIT OF WETLANDS

N/F AVON OLD FARMS SCHOOL 575 OLD FARMS ROAD

TAKING LINE (FUTURE ROW)

*END THREE RAIL WOOD FENCE STA. 10+65, 31' LT

SELECTIVE CLEARING AND THINNING

*CONC. SIDEWALK RAMP (TYPE 12)

APPROX. SLOPE LIMIT (TYP.)

EDGE OF PAVEMENT (TYP.)

BEGIN CONC. CURBING STA. 201+50

APPARENT ROW LINE

LIMIT OF 100' URA

PC STA. 200+35.67

THOMPSON ROAD

200+00

201+00

202+00

203+00

204+00

205+00

206+00

206+36

PC STA. 10+09.17

PT STA. 202+78.65

PC STA. 203+30.84

PT STA. 204+45.84

PC STA. 204+55.79

PT STA. 206+20.53

OLD FARMS ROAD (TO BE ABANDONED)

*CONC. SIDEWALK RAMP (TYPE 12)

*DETECTABLE WARNING SURFACE (TYP)

211 LF - CONC. CURBING

APPROX. SLOPE LIMIT (TYP.)

BEGIN CONC. CURBING STA. 205+00

THOMPSON BROOK

THOMPSON BROOK

OLD FARMS ROAD

LIMIT OF CONSTRUCTION
BEGIN FULL DEPTH PAVEMENT RECONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXIST. PAVEMENT
STA. 201+50

SELECTIVE CLEARING AND THINNING

FURNISH AND PLACE 4" TOPSOIL W/ CONSERVATION SEEDING (TYP.)

APPROX. SLOPE LIMIT (TYP.)

EDGE OF PAVEMENT (TYP.)

CRUSHED STONE FOR SLOPE PROTECTION

333 LF - CONC. CURBING

FURNISH AND PLACE 4" TOPSOIL W/ CONSERVATION SEEDING (TYP.)

*DETECTABLE WARNING SURFACE (TYP)

*CONC. SIDEWALK RAMP (TYPE 12)

TAKING LINE (FUTURE ROW)

*PAVED SHARED USE-PATH (10' WIDE)

FURNISH AND PLACE 4" TOPSOIL W/ CONSERVATION SEEDING (TYP.)

LIMIT OF SHARED-USE PATH CONSTRUCTION
MATCH EXIST. GROUND
STA. 204+80

END CONC. CURBING STA. 205+00

LIMIT OF 100' URA

APPARENT ROW LINE

LIMIT OF CONSTRUCTION
END FULL DEPTH PAVEMENT RECONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXIST. PAVEMENT
STA. 205+00

N/F AVON OLD FARMS SCHOOL 625 OLD FARMS ROAD

NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ROADWAY CORRIDOR CLEARING LIMITS AND REVIEW WITH THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING CLEARING AND GRUBBING.
2. SEE ALIGNMENT AND LAYOUT PLANS FOR PROPOSED LAYOUT DIMENSIONS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:

DATUM:
HORZ.: NAD 83
VERT.: NAVD 88

20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CONSTRUCTION PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

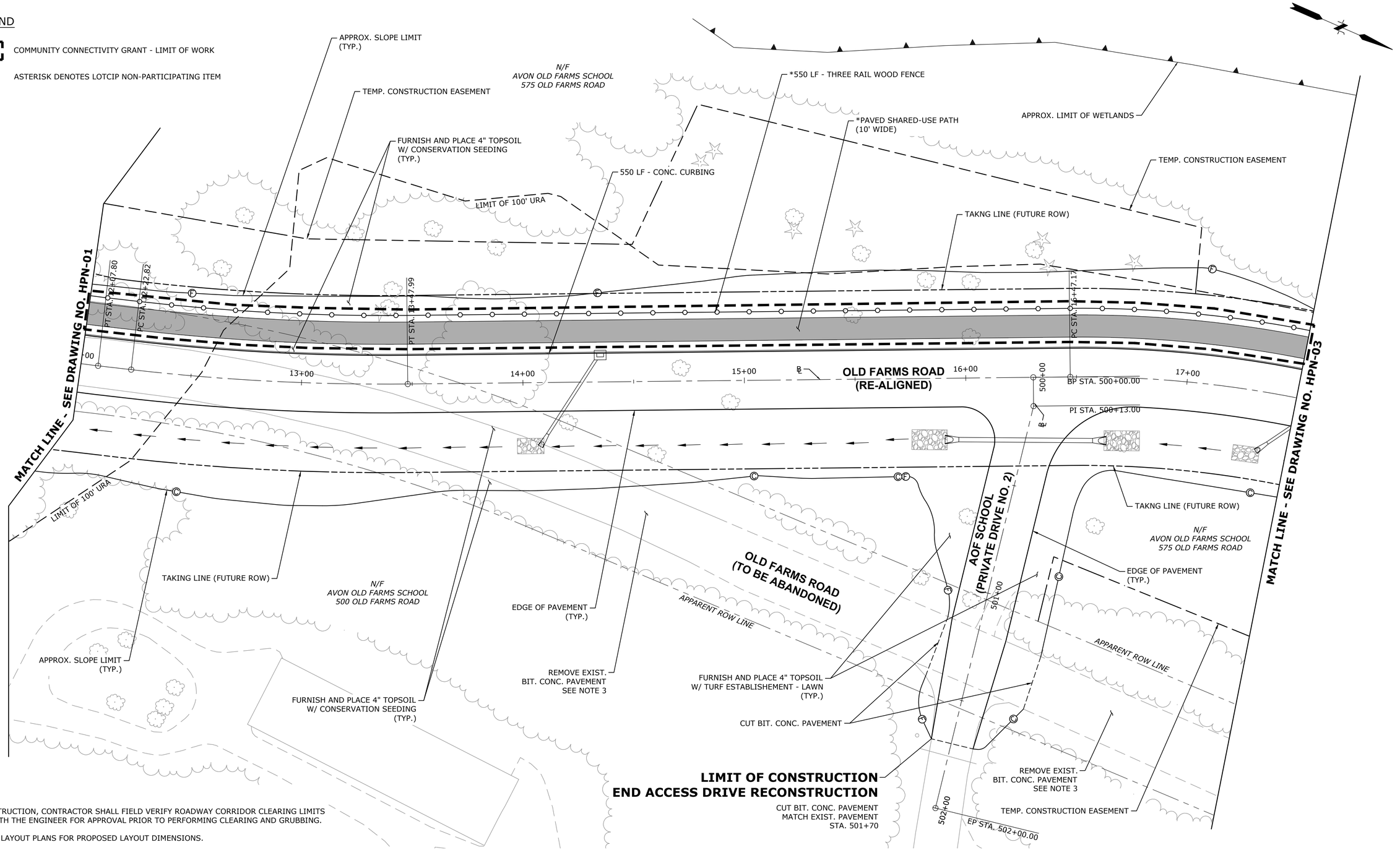
HPN-01

File Path: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_HPN01.dwg Layout: HPN-01 Plotted: Tue, March 14, 2023 - 5:43 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: HPN-01 LAYER STATE: HPN 01-08

LEGEND

COMMUNITY CONNECTIVITY GRANT - LIMIT OF WORK

* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM



NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ROADWAY CORRIDOR CLEARING LIMITS AND REVIEW WITH THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING CLEARING AND GRUBBING.
2. SEE ALIGNMENT LAYOUT PLANS FOR PROPOSED LAYOUT DIMENSIONS.
3. CONTRACTOR SHALL REMOVE EXIST. BIT. CONC. PAVEMENT AND RESTORE WITH 6" TOPSOIL AND TURF ESTABLISHMENT. THIS WORK SHALL BE IN ACCORDANCE WITH SEC. 1.08 - PROSECUTION AND PROGRESS. SEE SHEET NO. IND-01 FOR LIMITS OF BIT. CONC. PAVEMENT REMOVAL.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
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VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CONSTRUCTION PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

HPN-02

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_HPN01.dwg Layout: HPN-02 Plotted: Tue, March 14, 2023 - 5:44 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: HPN-01 LAYER STATE: HPN 01-08

LEGEND

COMMUNITY CONNECTIVITY GRANT - LIMIT OF WORK

* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM

APPROX. SLOPE LIMIT (TYP.)

601 LF - CONC. CURBING

*605 LF - THREE RAIL WOOD FENCE

FURNISH AND PLACE 4" TOPSOIL W/ CONSERVATION SEEDING (TYP.)

TAKING LINE (FUTURE ROW)

*PAVED SHARED-USE PATH (10' WIDE)

N/F
AVON OLD FARMS SCHOOL
575 OLD FARMS ROAD

APPROX. LIMIT OF WETLANDS

TEMP. CONSTRUCTION EASEMENT

LIMIT OF 100' URA

SEE NOTE 3

SEE DWG NO. MDS-08 & MDS-09 FOR SPLITTER ISLAND DETAILS AND CURB STYLE SCHEDULE

SPLITTER ISLAND MOUNTABLE GRANITE STONE CURBING WITH 4" REVEAL (TYP)

PT STA. 20+17.03

PC STA. 21+76.34

OLD FARMS ROAD
(RE-ALIGNED)

18+00 19+00 20+00 21+00 22+00 23+00

HOOP HOUSE

OPEN

SHED

MATCH LINE - SEE DRAWING NO. HPN-02

MATCH LINE - SEE DRAWING NO. HPN-04

N/F
AVON OLD FARMS SCHOOL
575 OLD FARMS ROAD

APPROX. SLOPE LIMIT (TYP.)

EDGE OF PAVEMENT (TYP.)

TAKING LINE (FUTURE ROW)

FURNISH AND PLACE 4" TOPSOIL W/ CONSERVATION SEEDING (TYP.)

REMOVE EXIST. BIT. CONC. PAVEMENT AND RESTORE W/ 4" TOPSOIL AND TURF ESTABLISHMENT

SEE NOTE 4

TEMP. CONSTRUCTION EASEMENT

SPLITTER ISLAND NOSE CURB TRANSITION

APPARENT ROW LINE

TEMP. CONSTRUCTION EASEMENT

OLD FARMS ROAD
(TO BE ABANDONED)

15" RCP
INV=253.72'

APPARENT ROW LINE

BEGIN 6" X 18" GSC
STA. 23+37

58.33'
254.13'
253.72'

REMOVE EXIST.
BIT. CONC. PAVEMENT
SEE NOTE 5

REMOVE EXIST.
BIT. CONC. PAVEMENT
SEE NOTE 5

14 LF - 6" X 18" GSC

12" RCP
OUT INV(E)

N/F
AVON OLD FARMS SCHOOL
500 OLD FARMS ROAD

NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ROADWAY CORRIDOR CLEARING LIMITS AND REVIEW WITH THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING CLEARING AND GRUBBING.
2. SEE ALIGNMENT LAYOUT PLANS FOR PROPOSED LAYOUT DIMENSIONS.
3. EXISTING GARDEN AND MISCELLANEOUS STRUCTURES TO BE REMOVED BY AVON OLD FARMS SCHOOL PRIOR TO CONSTRUCTION. EXISTING WATER SERVICE SHALL BE ABANDONED.
4. CONTRACTOR SHALL COMPLETELY REMOVE AND DISPOSE EXIST. WATER SERVICE FROM THE GARDEN TO THE EXIST. WATER GATE BOX LOCATED AT STA. 23+82, 33 RT.
5. CONTRACTOR SHALL REMOVE EXIST. BIT. CONC. PAVEMENT AND RESTORE WITH 6" TOPSOIL AND TURF ESTABLISHMENT. THIS WORK SHALL BE IN ACCORDANCE WITH SEC. 1.08 - PROSECUTION AND PROGRESS. SEE SHEET NO. IND-01 FOR LIMITS OF BIT. CONC. PAVEMENT REMOVAL.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CONSTRUCTION PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

HPN-03

File Path: J:\DWG\P2016\0663A30\Civil\Plan\20160663A30_HPN01.dwg Layout: HPN-03 Plotted: Tue, March 14, 2023 - 5:44 PM User: sbearce
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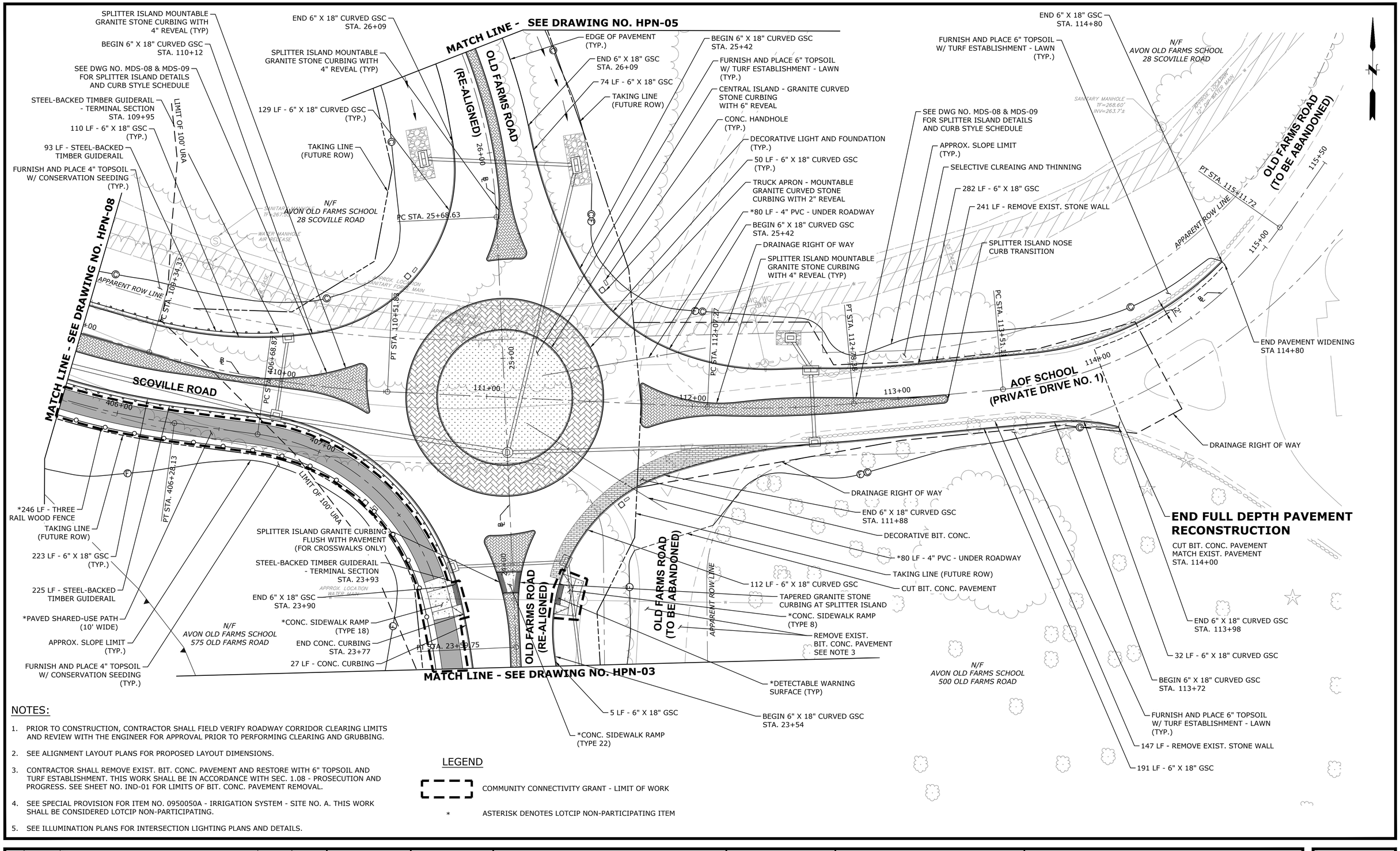
LAYER STATE: HPN 01-08
MS VIEW: HPN-01



NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ROADWAY CORRIDOR CLEARING LIMITS AND REVIEW WITH THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING CLEARING AND GRUBBING.
2. SEE ALIGNMENT LAYOUT PLANS FOR PROPOSED LAYOUT DIMENSIONS.
3. CONTRACTOR SHALL REMOVE EXIST. BIT. CONC. PAVEMENT AND RESTORE WITH 6" TOPSOIL AND TURF ESTABLISHMENT. THIS WORK SHALL BE IN ACCORDANCE WITH SEC. 1.08 - PROSECUTION AND PROGRESS. SEE SHEET NO. IND-01 FOR LIMITS OF BIT. CONC. PAVEMENT REMOVAL.
4. SEE SPECIAL PROVISION FOR ITEM NO. 0950050A - IRRIGATION SYSTEM - SITE NO. A. THIS WORK SHALL BE CONSIDERED LOTCIP NON-PARTICIPATING.
5. SEE ILLUMINATION PLANS FOR INTERSECTION LIGHTING PLANS AND DETAILS.

LEGEND

COMMUNITY CONNECTIVITY GRANT - LIMIT OF WORK

* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

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DATUM:
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TOWN OF AVON

ROADWAY CONSTRUCTION PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

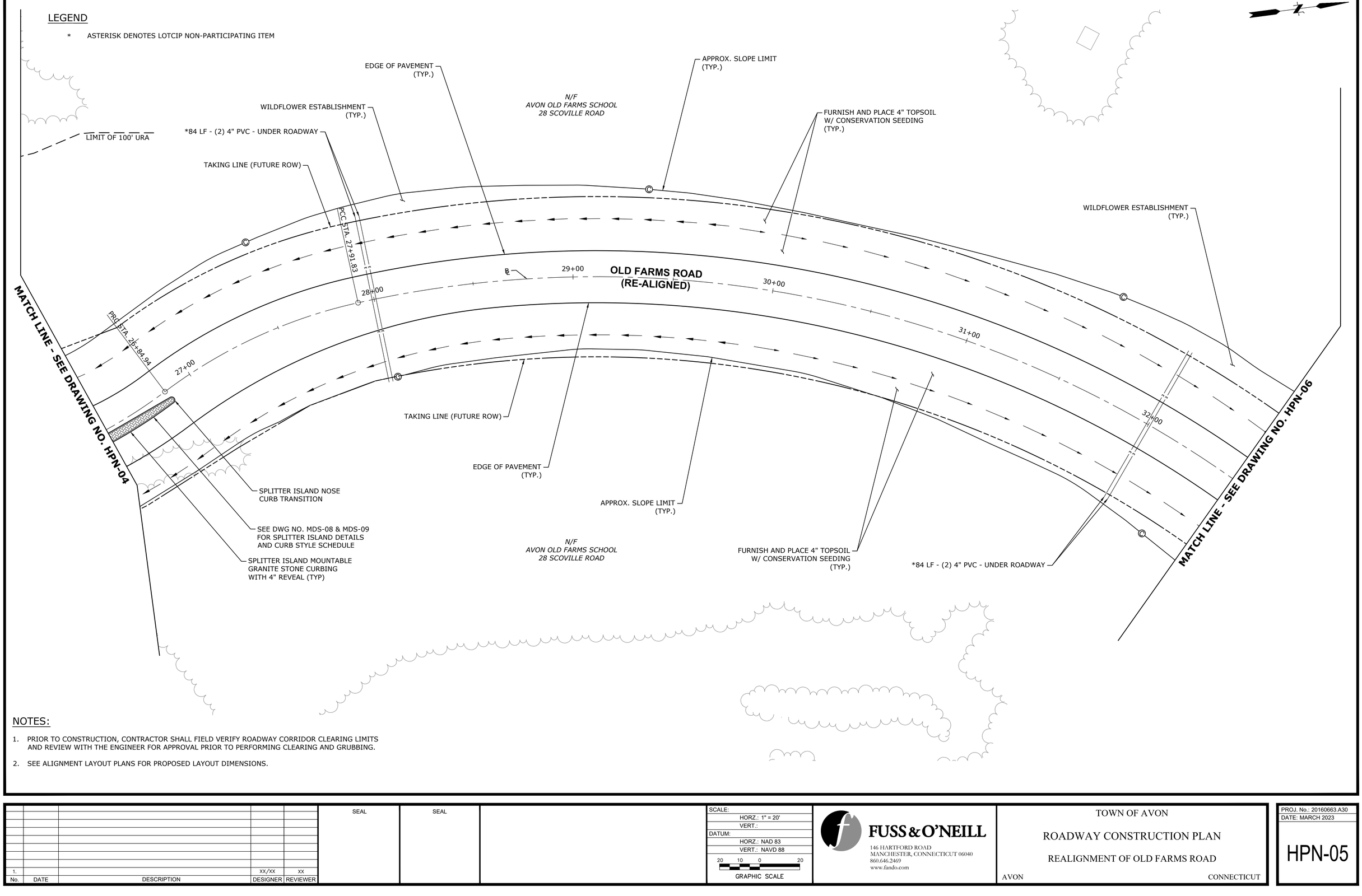
PROJ. No.: 20160663.A30
DATE: MARCH 2023

HPN-04

File Path: J:\DWG\P2016\20663\A30\Civil\Plan\20160663A30_HPN01.dwg Layout: HPN-04 Plotted: Tue, March 14, 2023 - 5:44 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE: HPN 01-08
MS VIEW: HPN-01

LEGEND

* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM



NOTES:

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2. SEE ALIGNMENT LAYOUT PLANS FOR PROPOSED LAYOUT DIMENSIONS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

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TOWN OF AVON

ROADWAY CONSTRUCTION PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

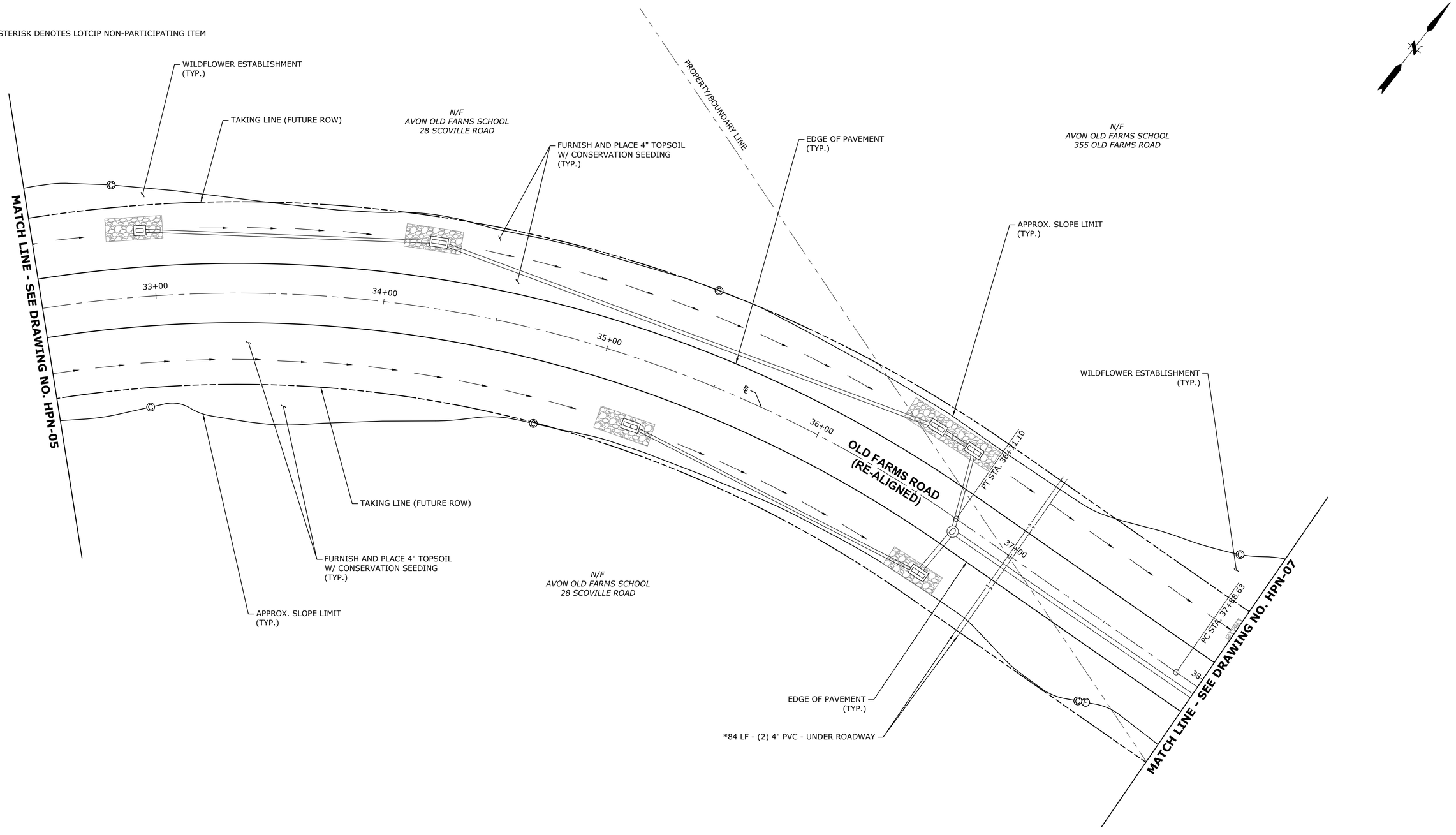
PROJ. No.: 20160663.A30
DATE: MARCH 2023

HPN-05

File Path: J:\DWG\P2016\20663\A30\Civil\Plan\20160663A30_HPN01.dwg Layout: HPN-05 Plotted: Tue, March 14, 2023 - 5:44 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:HPN 01-08
MS VIEW:HPN-01

LEGEND

* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM



NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ROADWAY CORRIDOR CLEARING LIMITS AND REVIEW WITH THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING CLEARING AND GRUBBING.
2. SEE ALIGNMENT LAYOUT PLANS FOR PROPOSED LAYOUT DIMENSIONS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

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20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CONSTRUCTION PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

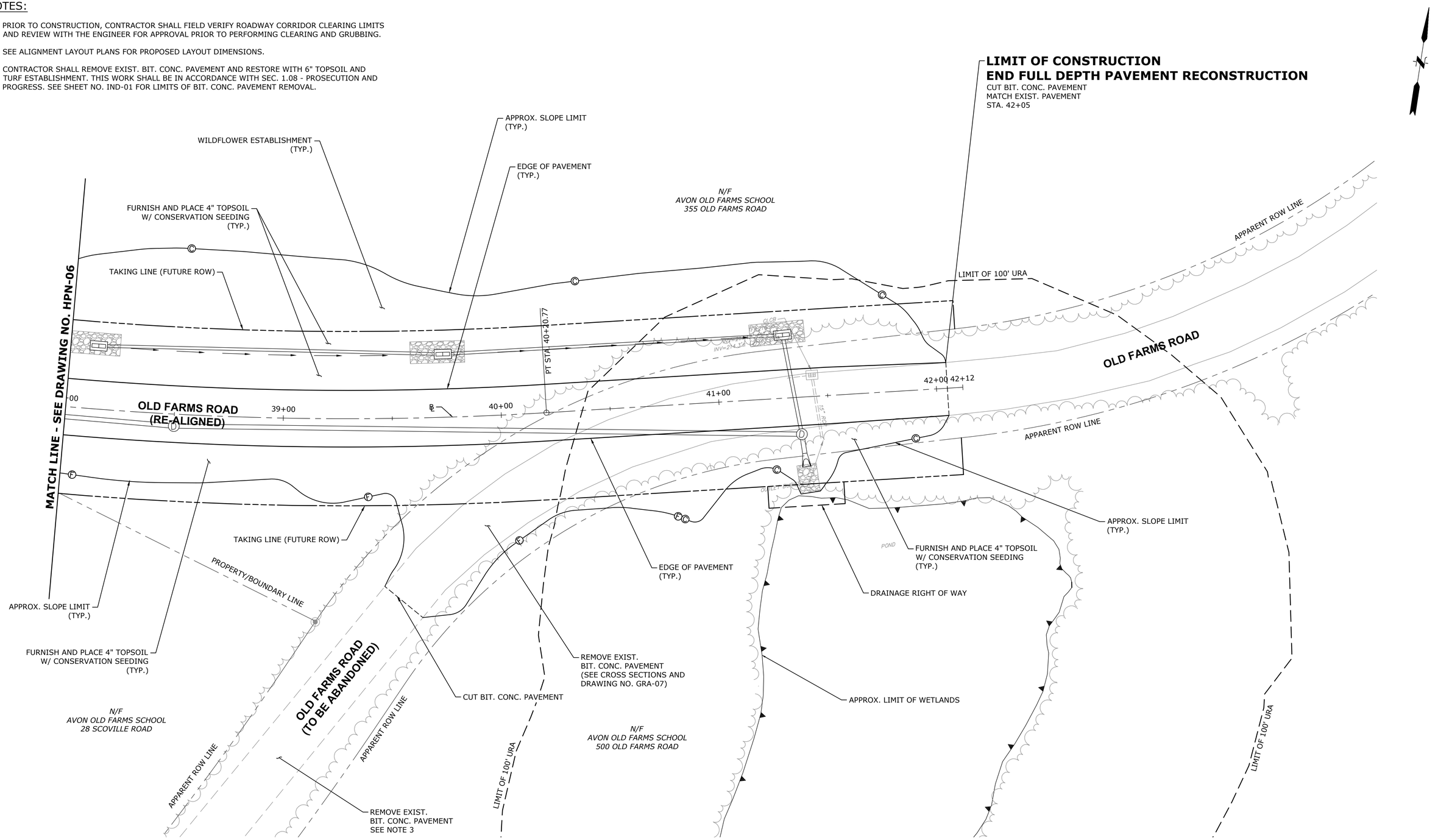
PROJ. No.: 20160663.A30
DATE: MARCH 2023

HPN-06

File Path: J:\DWG\P2016\20160663A30\Civil\Plan\20160663A30_HPN01.dwg Layout: HPN-06 Plotted: Tue, March 14, 2023 - 5:44 PM User: sbearce
MS VIEW: HPN-01 LAYER STATE: HPN 01-08 Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ROADWAY CORRIDOR CLEARING LIMITS AND REVIEW WITH THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING CLEARING AND GRUBBING.
2. SEE ALIGNMENT LAYOUT PLANS FOR PROPOSED LAYOUT DIMENSIONS.
3. CONTRACTOR SHALL REMOVE EXIST. BIT. CONC. PAVEMENT AND RESTORE WITH 6" TOPSOIL AND TURF ESTABLISHMENT. THIS WORK SHALL BE IN ACCORDANCE WITH SEC. 1.08 - PROSECUTION AND PROGRESS. SEE SHEET NO. IND-01 FOR LIMITS OF BIT. CONC. PAVEMENT REMOVAL.



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
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DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
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GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CONSTRUCTION PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

HPN-07

File Path: J:\DWG\P20160663\A30\Civil\Plan\20160663A30_HPN01.dwg Layout: HPN-07 Plotted: Tue, March 14, 2023 - 5:44 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:HPN 01-08
MS VIEW:HPN-01

LEGEND

COMMUNITY CONNECTIVITY GRANT - LIMIT OF WORK

* ASTERISK DENOTES LOTCIP NON-PARTICIPATING ITEM

BEGIN FULL DEPTH PAVEMENT RECONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXIST. PAVEMENT
STA. 106+50

FURNISH AND PLACE 4" TOPSOIL W/ CONSERVATION SEEDING (TYP.)

N/F
AVON OLD FARMS SCHOOL
28 SCOVILLE ROAD

CL&P 255

APPROX. LOCATION SANITARY FORCE MAIN

APPROX. LOCATION 12" DIP WATER MAIN

SNET 3655

APPARENT ROW LINE

SCOVILLE ROAD

105+50 106+00 107+00 108+00 109

400+00 401+00 402+00 403+00 404+00 405+00

PC STA. 106+82.87

PT STA. 107+92.53

LIMIT OF 100' URA

APPROX. LIMIT OF WETLANDS

DRAINAGE RIGHT OF WAY

BEGIN 6" X 18" GSC
STA. 108+26

152 LF - STEEL-BACKED TIMBER GUIDERAIL

74 LF - 6" X 18" GSC

SPLITTER ISLAND NOSE CURB TRANSITION

SPLITTER ISLAND MOUNTABLE GRANITE STONE CURBING WITH 4" REVEAL (TYP)

APPROX. SLOPE LIMIT (TYP.)

STEEL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION
STA. 107+50, 15' LT

EDGE OF PAVEMENT (TYP.)

STONE CULVERT
38"W x 24"H
ARCH PIPE

APPARENT ROW LINE

MATCH LINE - SEE DRAWING NO. HPN-04

FARMINGTON CANAL HERITAGE TRAIL

TAKING LINE (FUTURE ROW)

PC STA. 401+89.29

PT STA. 402+32.10

*PAVED SHARED-USE PATH (10' WIDE)

APPROX. SLOPE LIMIT (TYP.)

LIMIT OF SHARED-USE PATH CONSTRUCTION
MATCH EXIST. PAVEMENT
STA. 400+10

N/F
AVON OLD FARMS SCHOOL
575 OLD FARMS ROAD

*FURNISH AND PLACE 4" TOPSOIL W/ CONSERVATION SEEDING (TYP.)

STEEL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION
STA. 106+00, 26.5' RT

*BEGIN THREE RAIL WOOD FENCE
STA. 404+00, 8' RT

EDGE OF PAVEMENT (TYP.)

PC STA. 404+47.69

PRC STA. 405+04.15

BEGIN 6" X 18" GSC
STA. 108+35

72 LF - 6" X 18" GSC

DRAINAGE RIGHT OF WAY

SEE DWG NO. MDS-08 & MDS-09 FOR SPLITTER ISLAND DETAILS AND CURB STYLE SCHEDULE

*169 LF - THREE RAIL WOOD FENCE

APPROX. SLOPE LIMIT (TYP.)

296 LF - STEEL-BACKED TIMBER GUIDERAIL

APPROX. LIMIT OF WETLANDS

LIMIT OF 100' URA

NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ROADWAY CORRIDOR CLEARING LIMITS AND REVIEW WITH THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING CLEARING AND GRUBBING.
2. SEE ALIGNMENT LAYOUT PLANS FOR PROPOSED LAYOUT DIMENSIONS.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CONSTRUCTION PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

HPN-08

File Path: J:\DWG\P2016\0663A30\Civil\Plan\20160663A30_HPN01.dwg Layout: HPN-08 Plotted: Tue, March 14, 2023 - 5:44 PM User: sbearce
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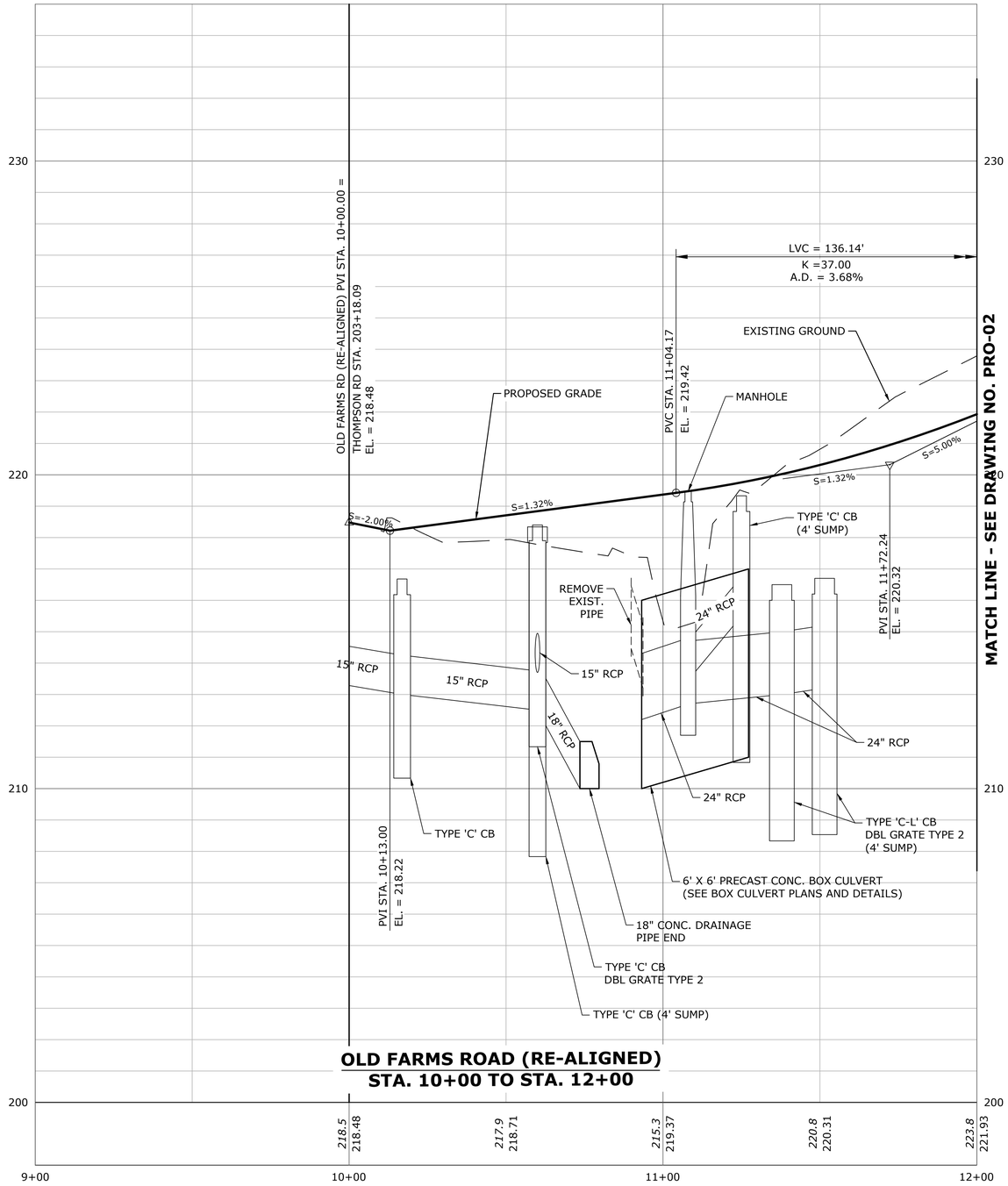

OLD FARMS ROAD (RE-ALIGNED)
STA. 10+00 TO STA. 12+00

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY PROFILE
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-01

File Path: J:\DWG\P20160663A30\Civil\Profile\20160663A30_PRF01.dwg Layout: PRO-01 Plotted: Wed, March 01, 2023 - 9:00 AM User: sbearce
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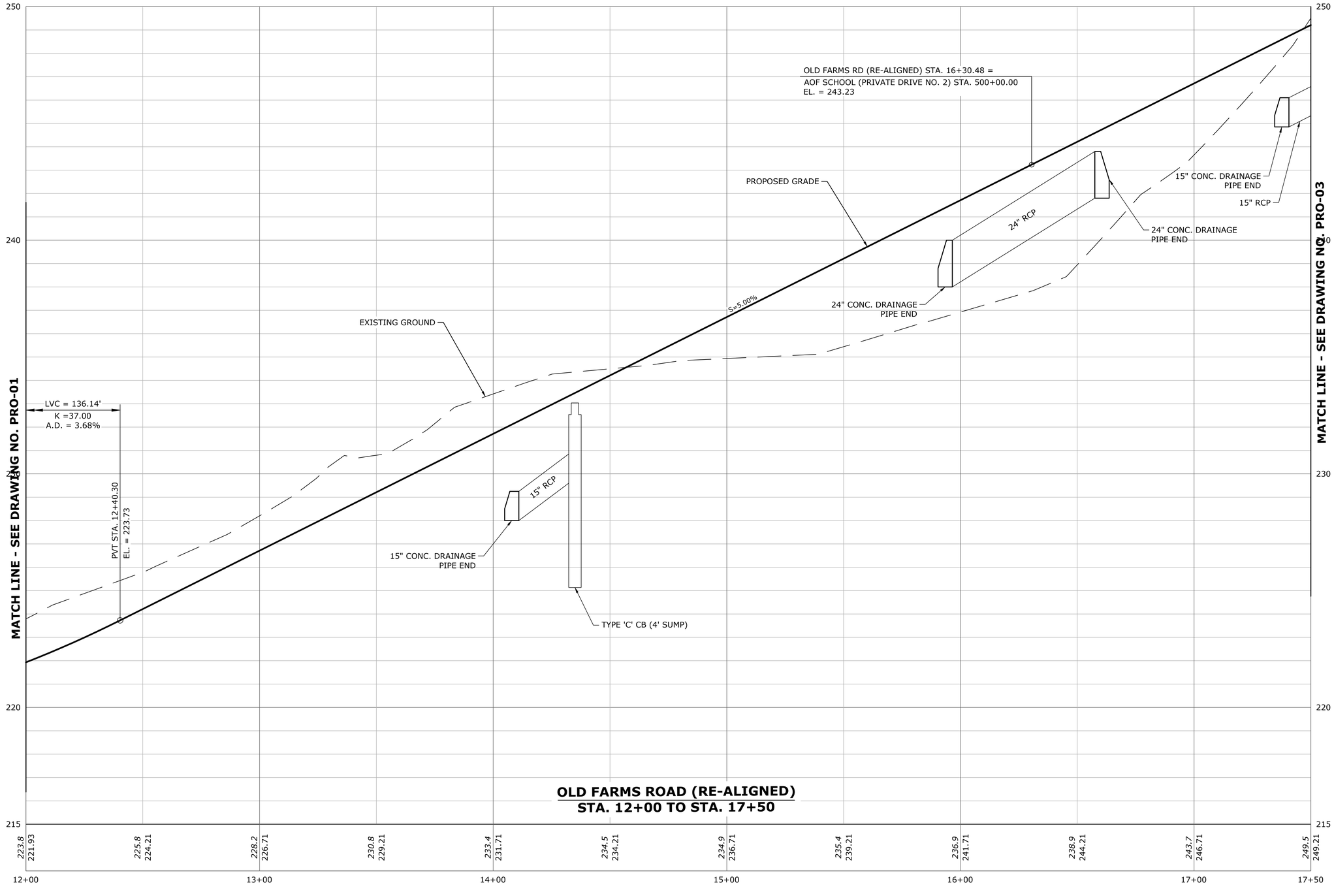

OLD FARMS ROAD (RE-ALIGNED)
STA. 12+00 TO STA. 17+50

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY PROFILE
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-02

File Path: J:\DWG\P20160663\A30\Civil\Profile\20160663A30_PRF01.dwg Layout: PRO-02 Plotted: Wed, March 01, 2023 - 9:00 AM User: sbearce
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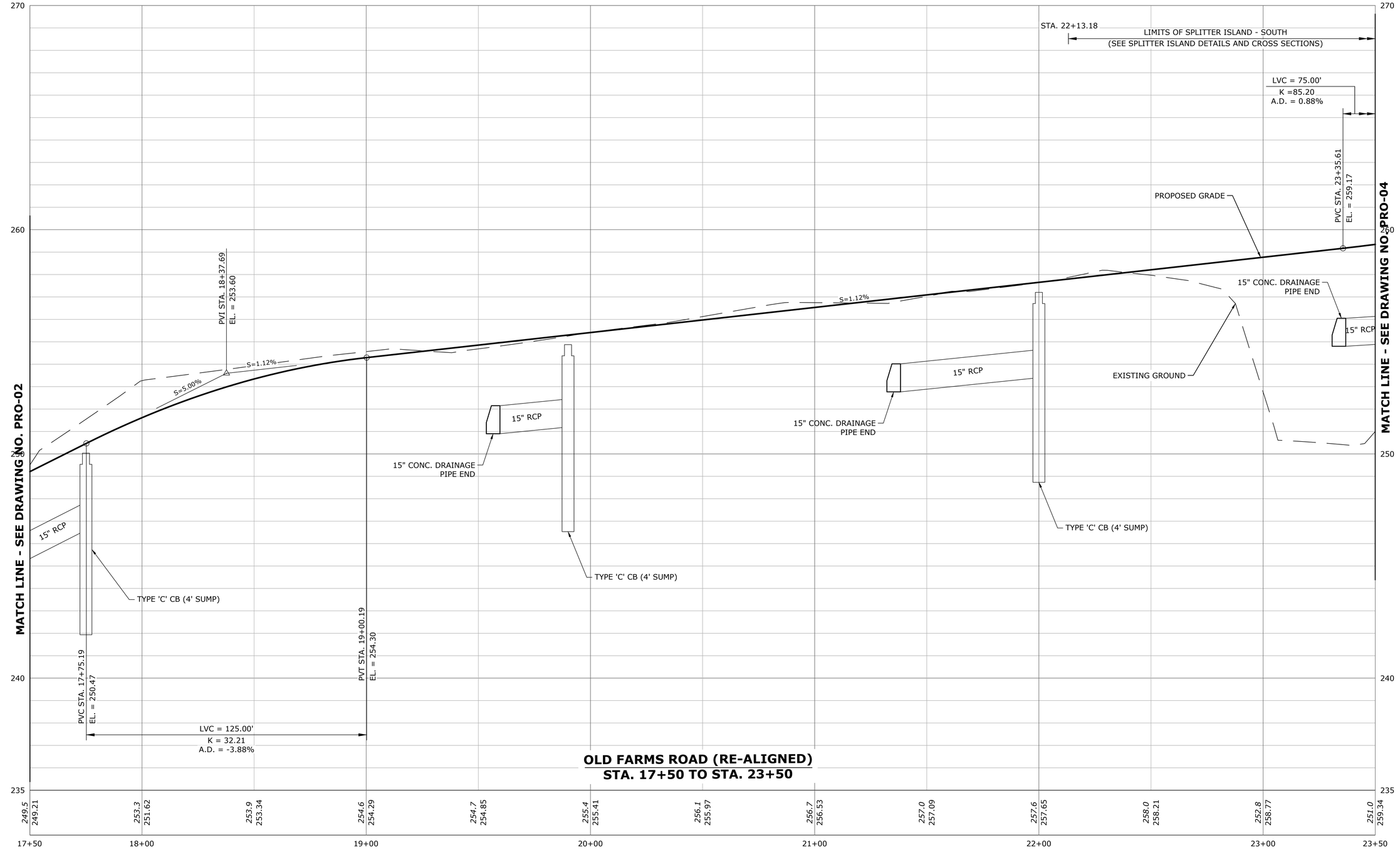

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
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DATUM:
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TOWN OF AVON

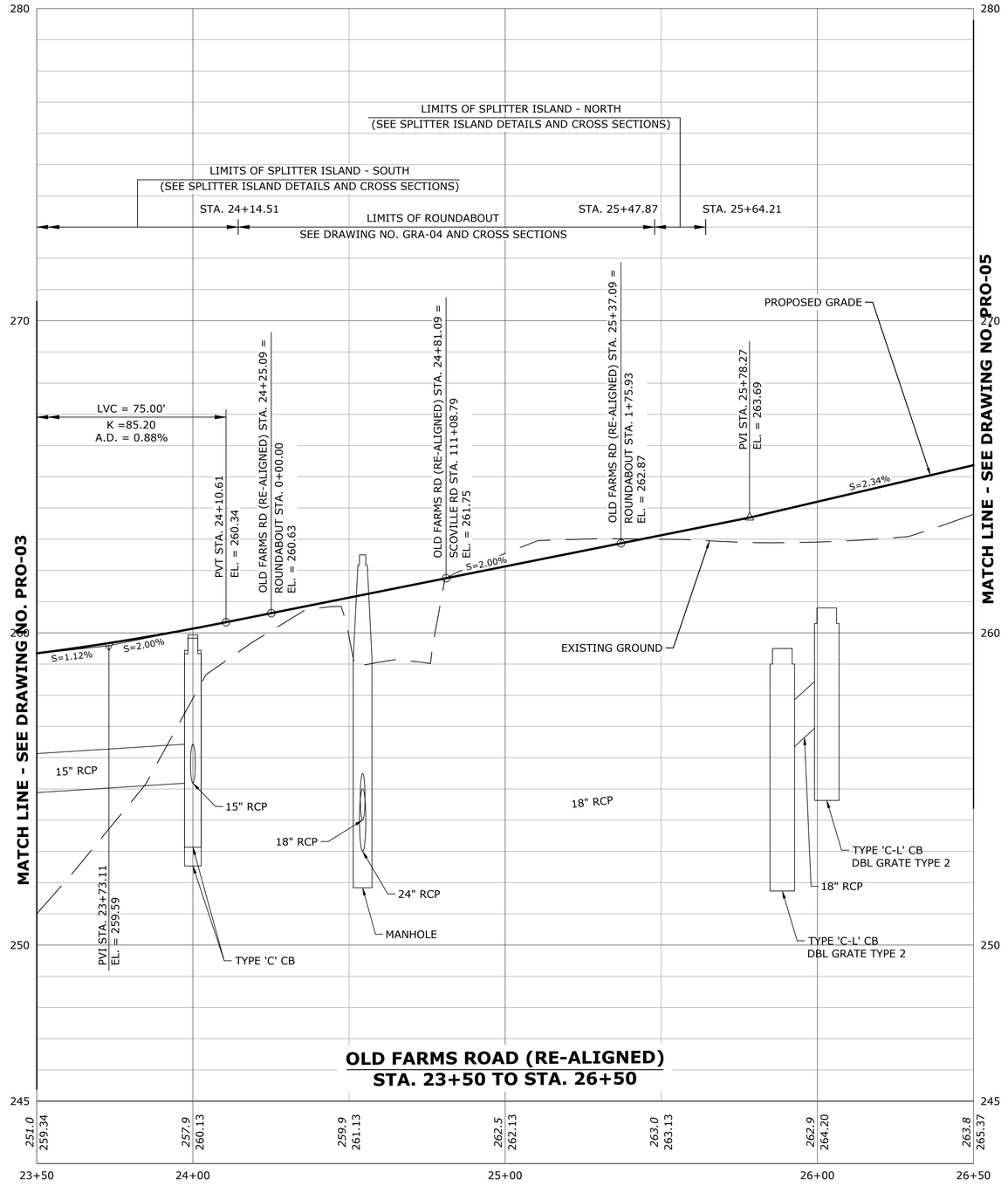
ROADWAY PROFILE
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-03



OLD FARMS ROAD (RE-ALIGNED)
STA. 23+50 TO STA. 26+50

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
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20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY PROFILE
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-04

File Path: J:\DWG\P20160663\A30\Civil\Profile\20160663A30_PRF01.dwg Layout: PRO-04 Plotted: Wed, March 01, 2023 - 9:00 AM User: sbearce
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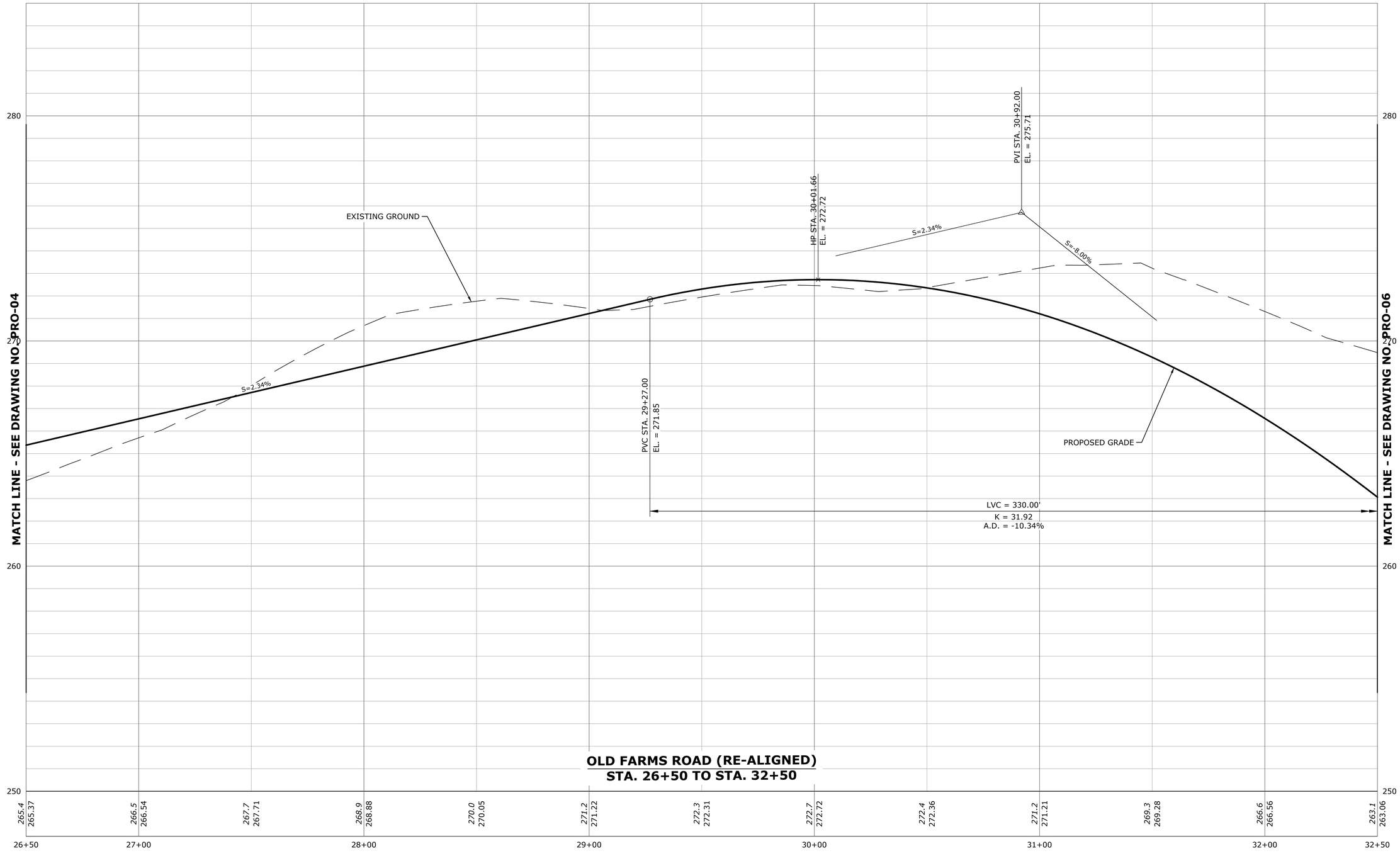

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
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TOWN OF AVON

ROADWAY PROFILE
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-05

File Path: J:\DWG\P2016\0663\A30\Civil\Profile\20160663A30_PRF01.dwg Layout: PRO-05 Plotted: Wed, March 01, 2023 - 9:00 AM User: sbearce
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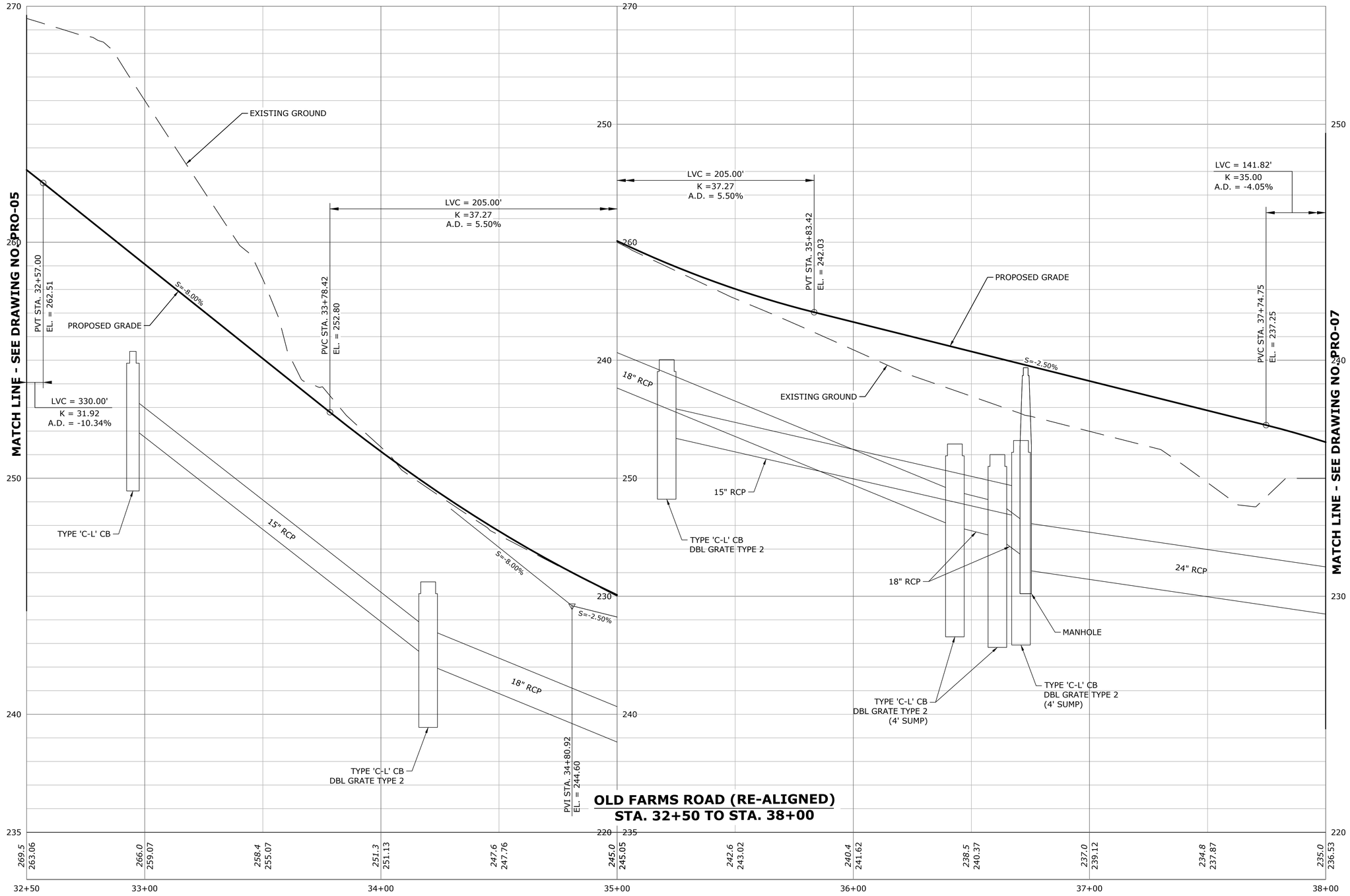

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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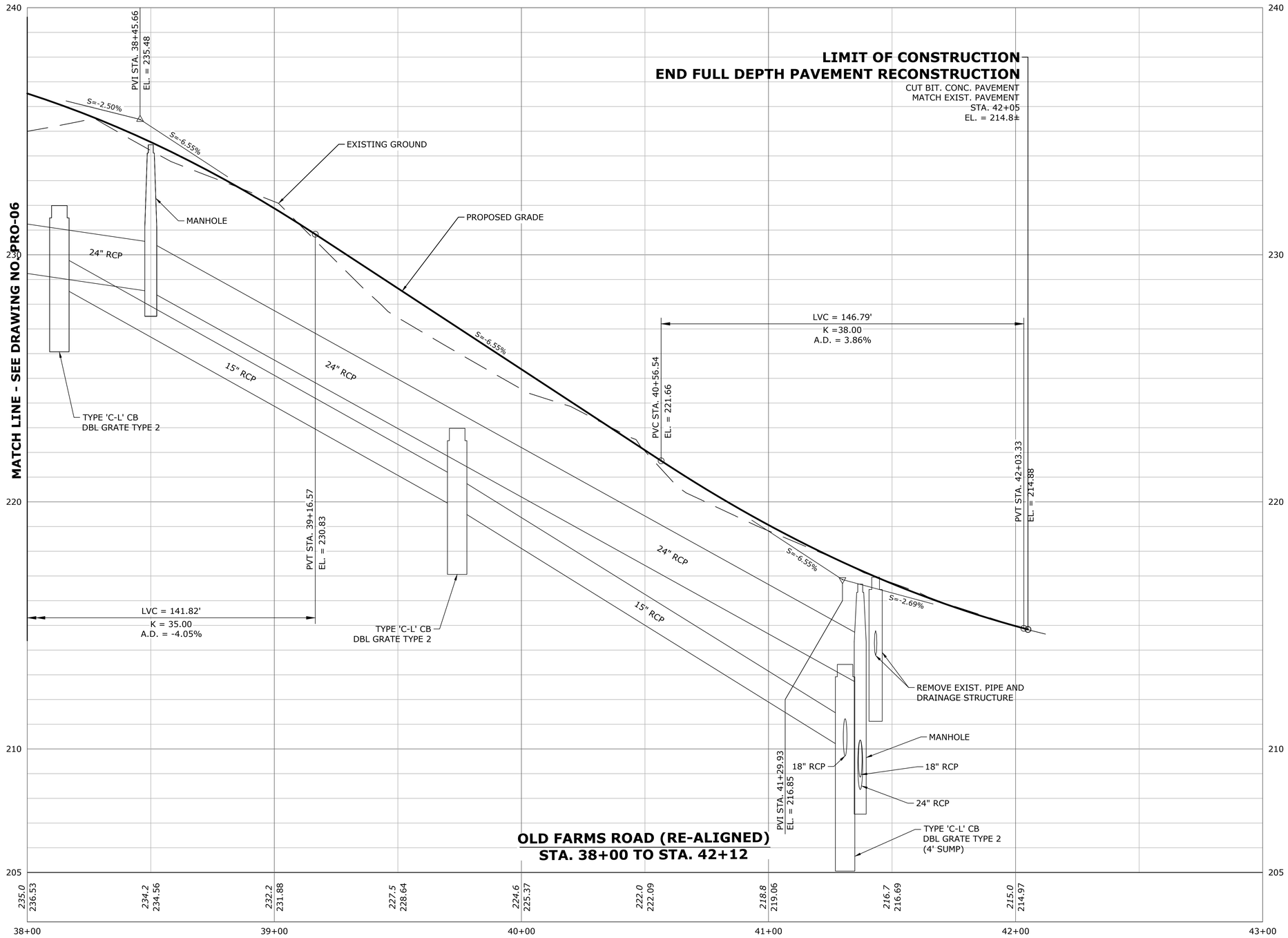
TOWN OF AVON

ROADWAY PROFILE
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-06



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY PROFILE
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-07

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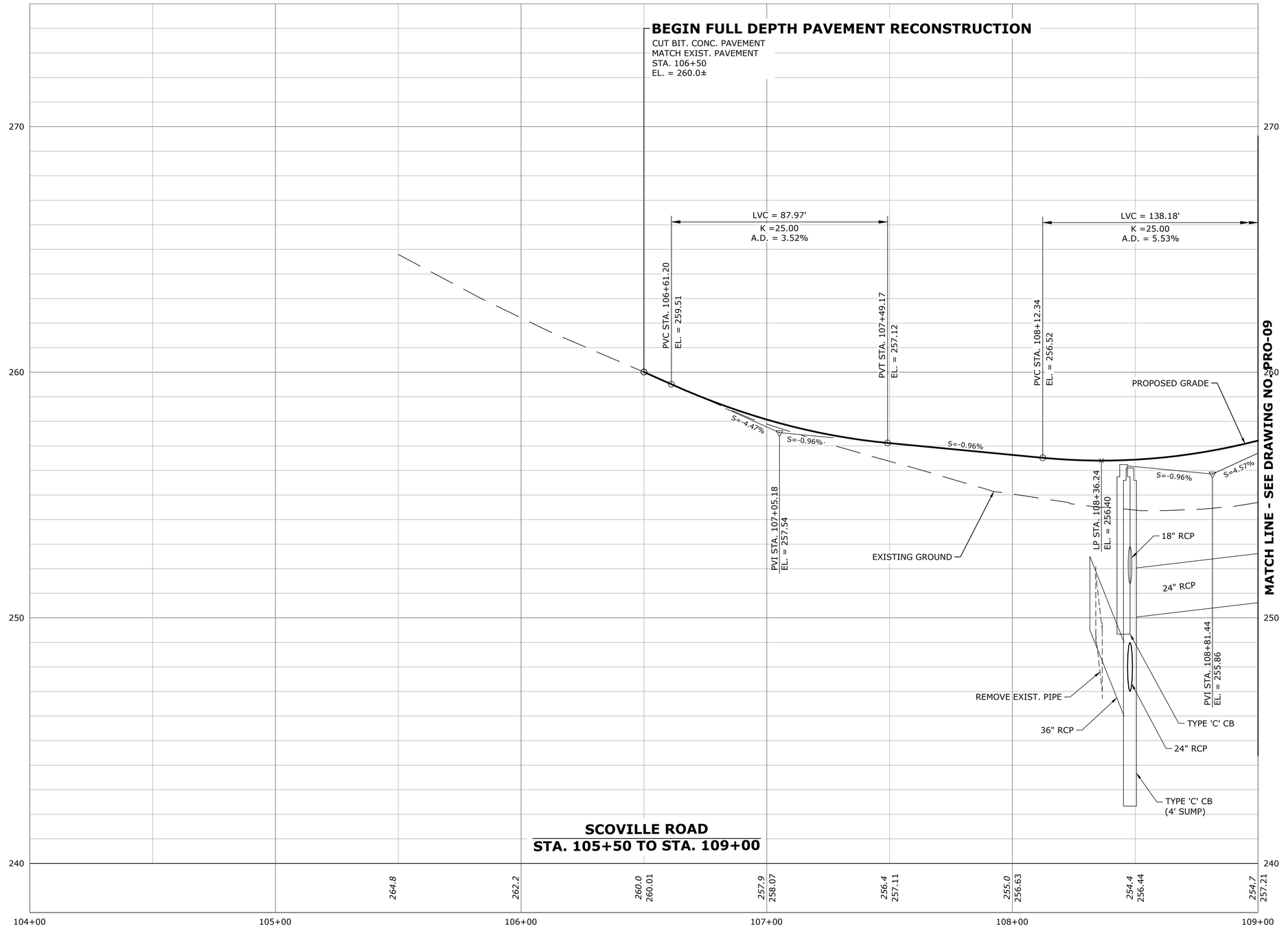

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
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DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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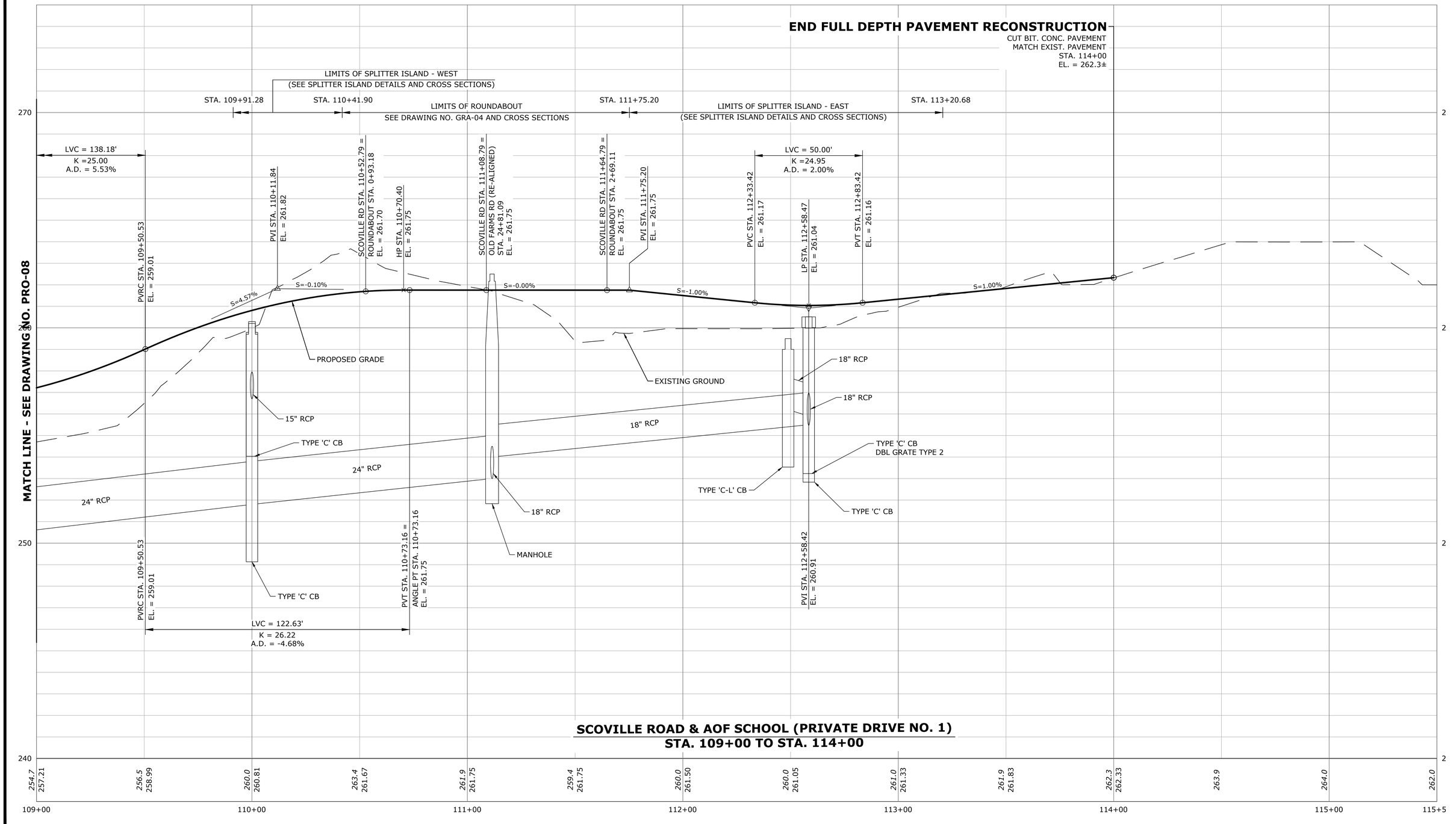
TOWN OF AVON
ROADWAY PROFILE
SCOVILLE ROAD
REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-08



SCOVILLE ROAD & AOF SCHOOL (PRIVATE DRIVE NO. 1)
STA. 109+00 TO STA. 114+00

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
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HORZ.: NAD 83
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TOWN OF AVON
ROADWAY PROFILE
SCOVILLE ROAD & AOF SCHOOL (PRIVATE DRIVE)
REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-09

File Path: J:\DWG\P2016\0663A30\Civil\Profile\20160663A30_PRF01.dwg Layout: PRO-09 Plotted: Wed, March 01, 2023 - 9:00 AM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

LIMIT OF SHARED-USE PATH CONSTRUCTION
BEGIN FULL DEPTH PAVEMENT RECONSTRUCTION

MATCH EXIST. PAVEMENT
STA. 400+10
EL. = 272.1±

PVI STA. 400+75.48
EL. = 271.52

S=-1.00%
S=-1.00%
S=-4.88%
S=-4.88%
S=-4.88%
S=1.30%
S=1.30%
S=1.30%
S=3.05%
S=3.05%

PVC STA. 400+30.24
EL. = 271.97

PVT STA. 401+20.72
EL. = 269.31

LVC = 90.48'
K = 23.29
A.D. = -3.88%

PROPOSED GRADE

EXISTING GROUND

LVC = 53.11'
K =8.59
A.D. = 6.18%

LVC = 44.15'
K =25.26
A.D. = 1.75%

PVC STA. 403+96.35
EL. = 255.85

LP STA. 404+38.29
EL. = 254.82

PVT STA. 404+49.46
EL. = 254.89

PVC STA. 404+73.72
EL. = 255.21

PVT STA. 405+17.87
EL. = 256.17

PVI STA. 405+50.00
EL. = 257.15

PVI STA. 404+22.91
EL. = 254.55

PVI STA. 404+95.79
EL. = 255.50

SEE SCOVILLE ROAD & OLD FARMS ROAD FOR LAYOUT CONTINUATION

TYPE 'C' CB

18" RCP

24" RCP

24" RCP

36" RCP

TYPE 'C' CB
(4' SUMP)

270
260
250
240

270.5 271.69
270.0 270.23
270.0 267.88
266.4 265.44
262.0 262.99
260.6 260.55
257.9 258.11
255.7 255.68
253.5 254.90
248.8 255.69
251.6 257.15
255.4
256.8

400+00 401+00 402+00 403+00 404+00 405+00 406+00 406+50

SHARED-USE PATH
STA. 400+00 TO STA. 405+50

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY PROFILE
SHARED-USE PATH

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-10

File Path: J:\DWG\P20160663A30\Civil\Profile\20160663A30_PRF01.dwg Layout: PRO-10 Plotted: Wed, March 01, 2023 - 9:00 AM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
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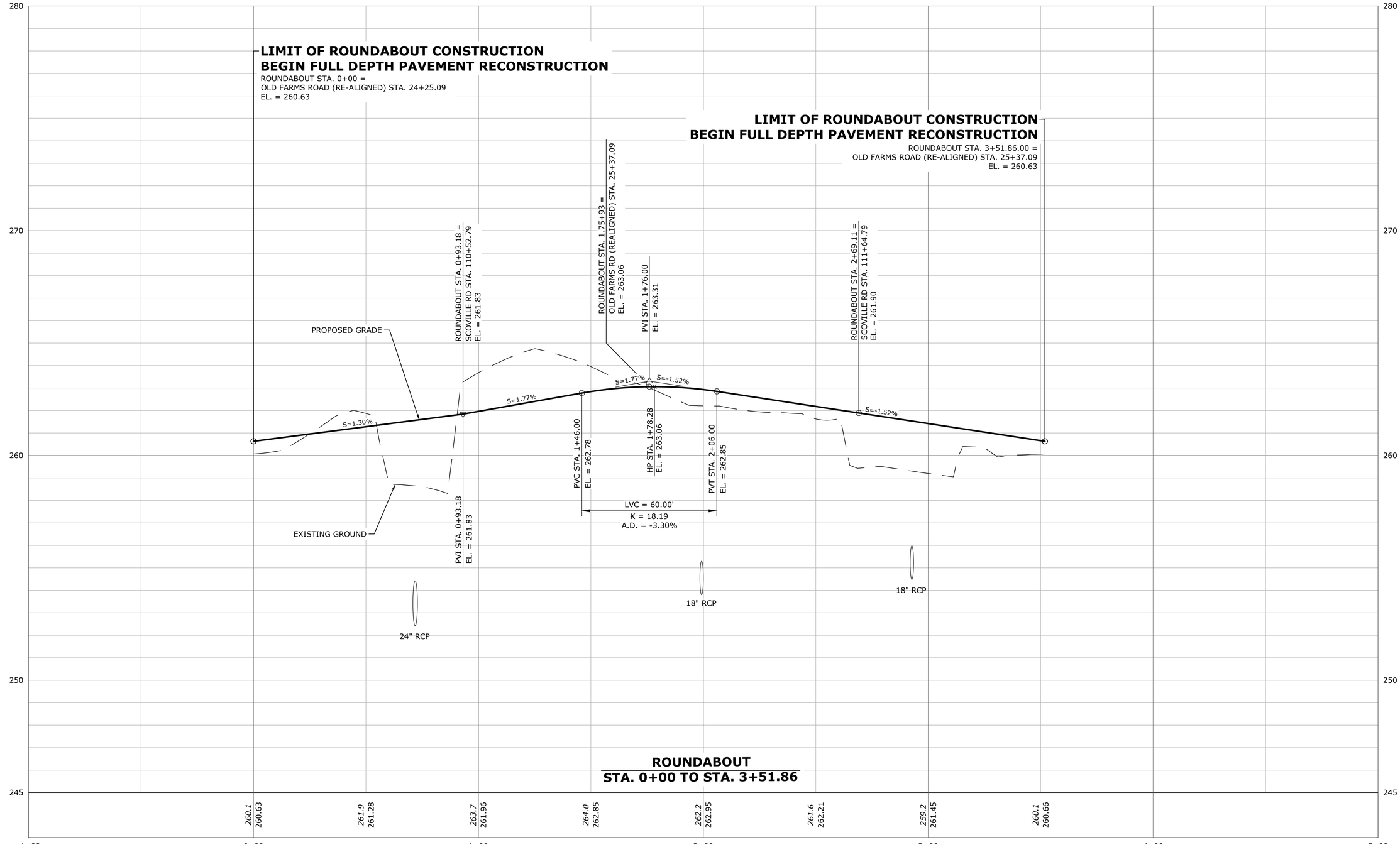

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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

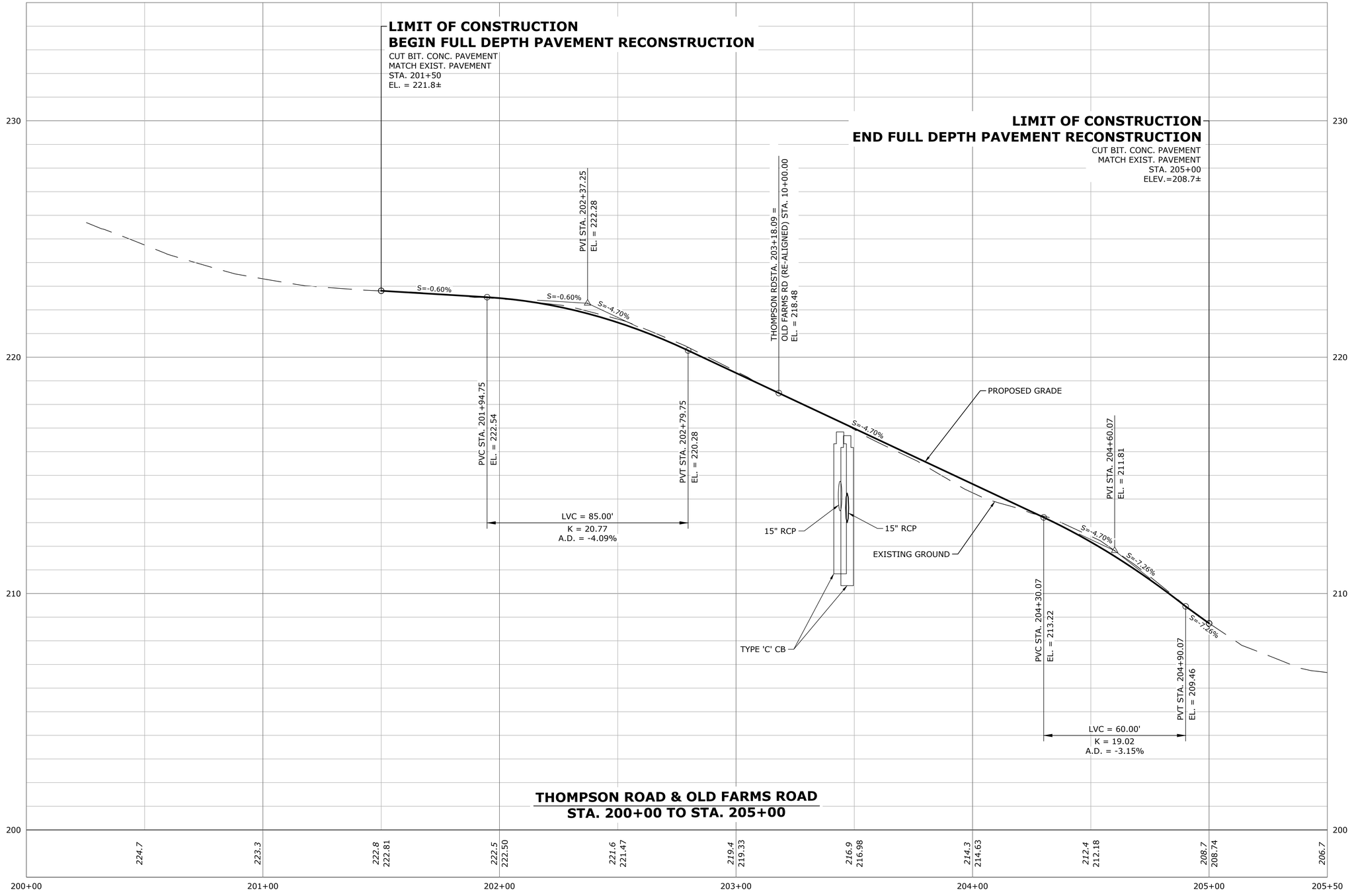
ROADWAY PROFILE
ROUNDABOUT

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-11



THOMPSON ROAD & OLD FARMS ROAD
STA. 200+00 TO STA. 205+00

File Path: J:\DWG\P2016\0663\A30\Civil\Profile\20160663A30_PRF01.dwg Layout: PRO-12 Plotted: Wed, March 01, 2023 - 9:00 AM User: sbearce
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
DATUM:
HORZ.: NAD83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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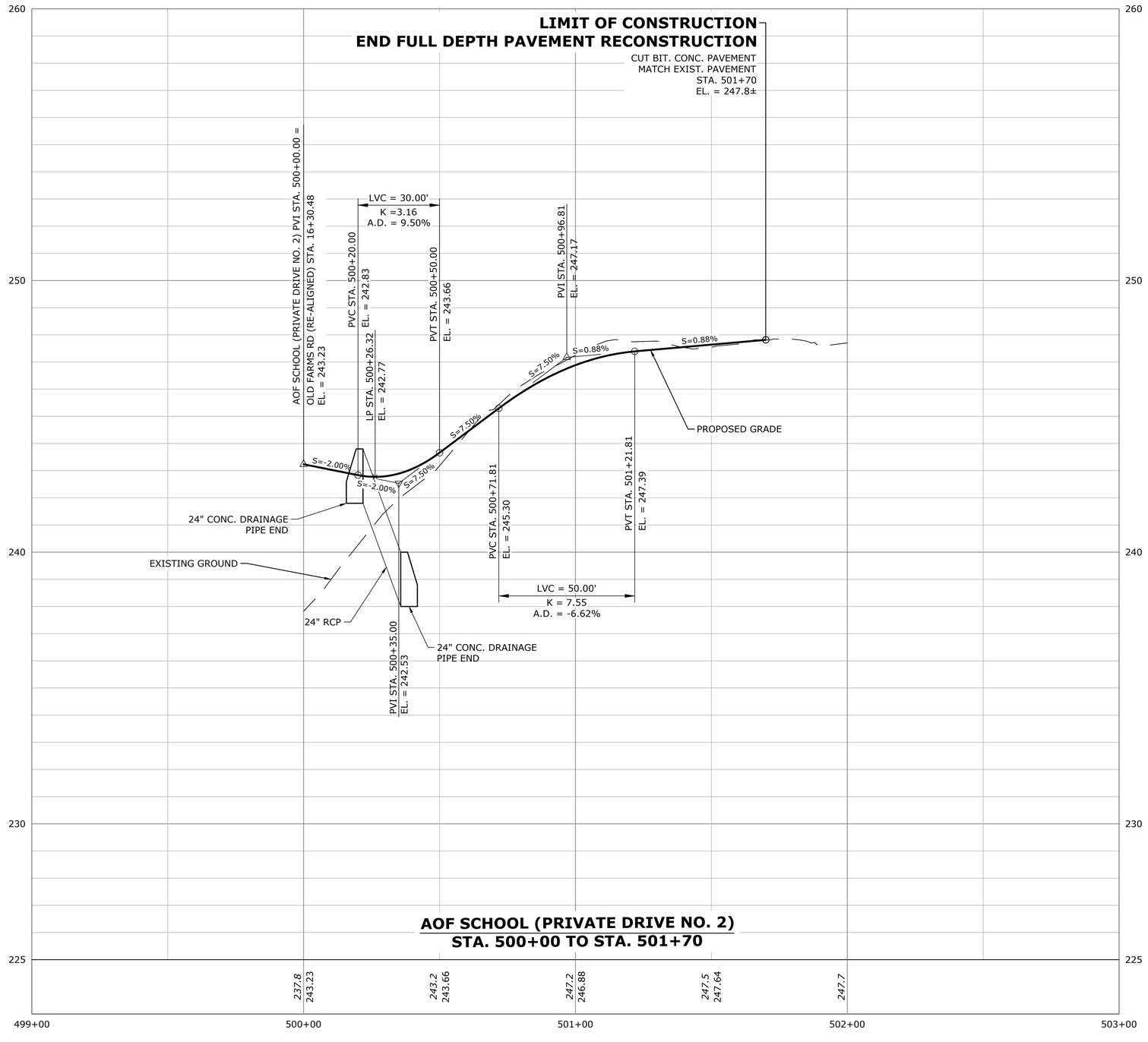
TOWN OF AVON
ROADWAY PROFILE
THOMPSON ROAD & OLD FARMS ROAD
REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-12



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.: 1" = 2'
DATUM:
HORZ.: NAD83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON
ROADWAY PROFILE
AOF SCHOOL (PRIVATE DRIVE NO. 2)
REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

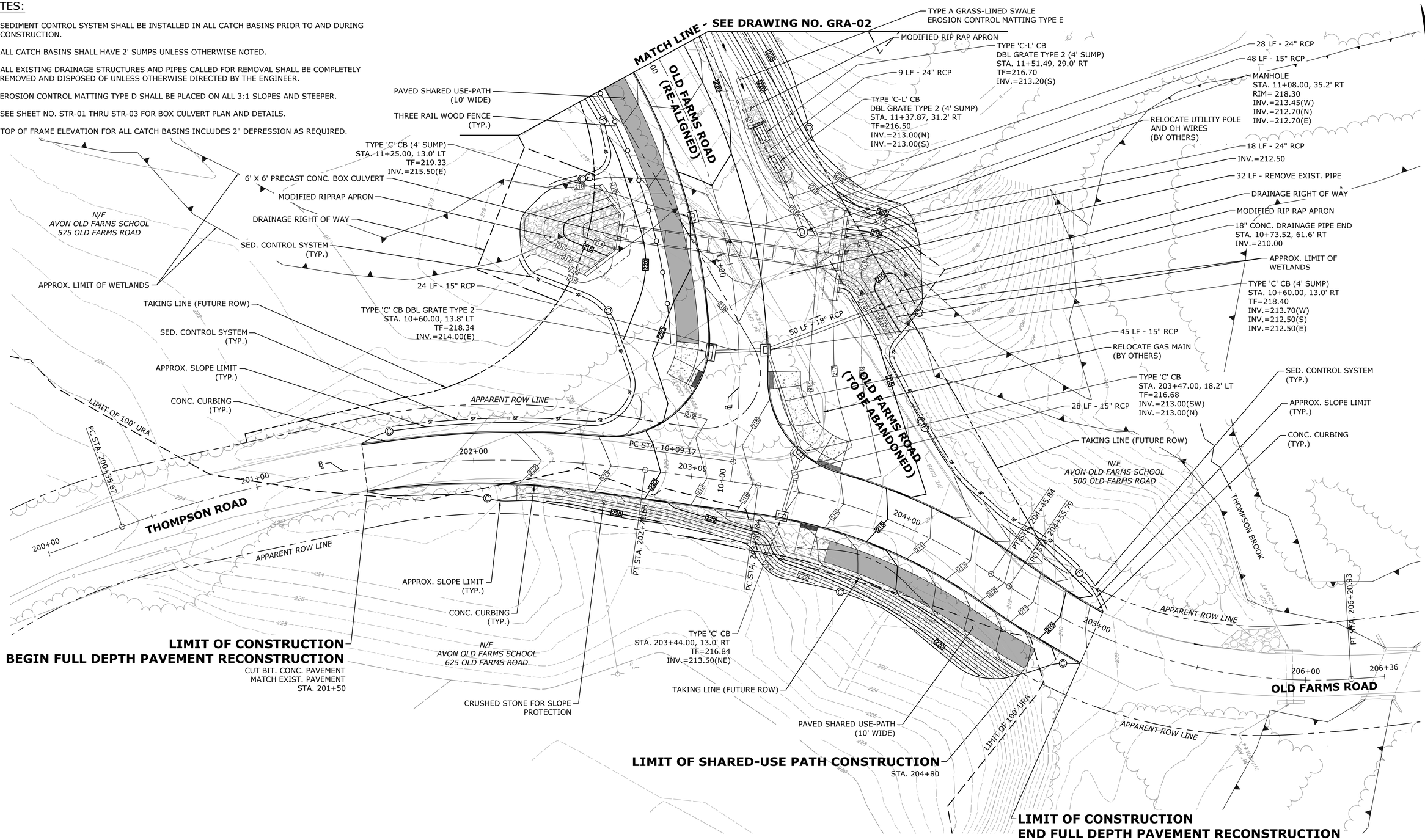
PROJ. No.: 20160663.A30
DATE: MARCH 2023

PRO-13

File Path: J:\DWG\P20160663\A30\Civil\Profile\20160663A30_PRF01.dwg Layout: PRO-13 Plotted: Wed, March 01, 2023 - 9:00 AM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

NOTES:

1. SEDIMENT CONTROL SYSTEM SHALL BE INSTALLED IN ALL CATCH BASINS PRIOR TO AND DURING CONSTRUCTION.
2. ALL CATCH BASINS SHALL HAVE 2' SUMPS UNLESS OTHERWISE NOTED.
3. ALL EXISTING DRAINAGE STRUCTURES AND PIPES CALLED FOR REMOVAL SHALL BE COMPLETELY REMOVED AND DISPOSED OF UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. EROSION CONTROL MATTING TYPE D SHALL BE PLACED ON ALL 3:1 SLOPES AND STEEPER.
5. SEE SHEET NO. STR-01 THRU STR-03 FOR BOX CULVERT PLAN AND DETAILS.
6. TOP OF FRAME ELEVATION FOR ALL CATCH BASINS INCLUDES 2" DEPRESSION AS REQUIRED.



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

GRADING, DRAINAGE, AND EROSION & SEDIMENTATION CONTROL PLANS

REALIGNMENT OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

GRA-01

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_GRA01.dwg Layout: GRA-01 Plotted: Tue, February 28, 2023 - 3:24 PM User: sbearce
MS VIEW: GRA-01 | LAYER STATE: GRA-01-08 | Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

NOTES:

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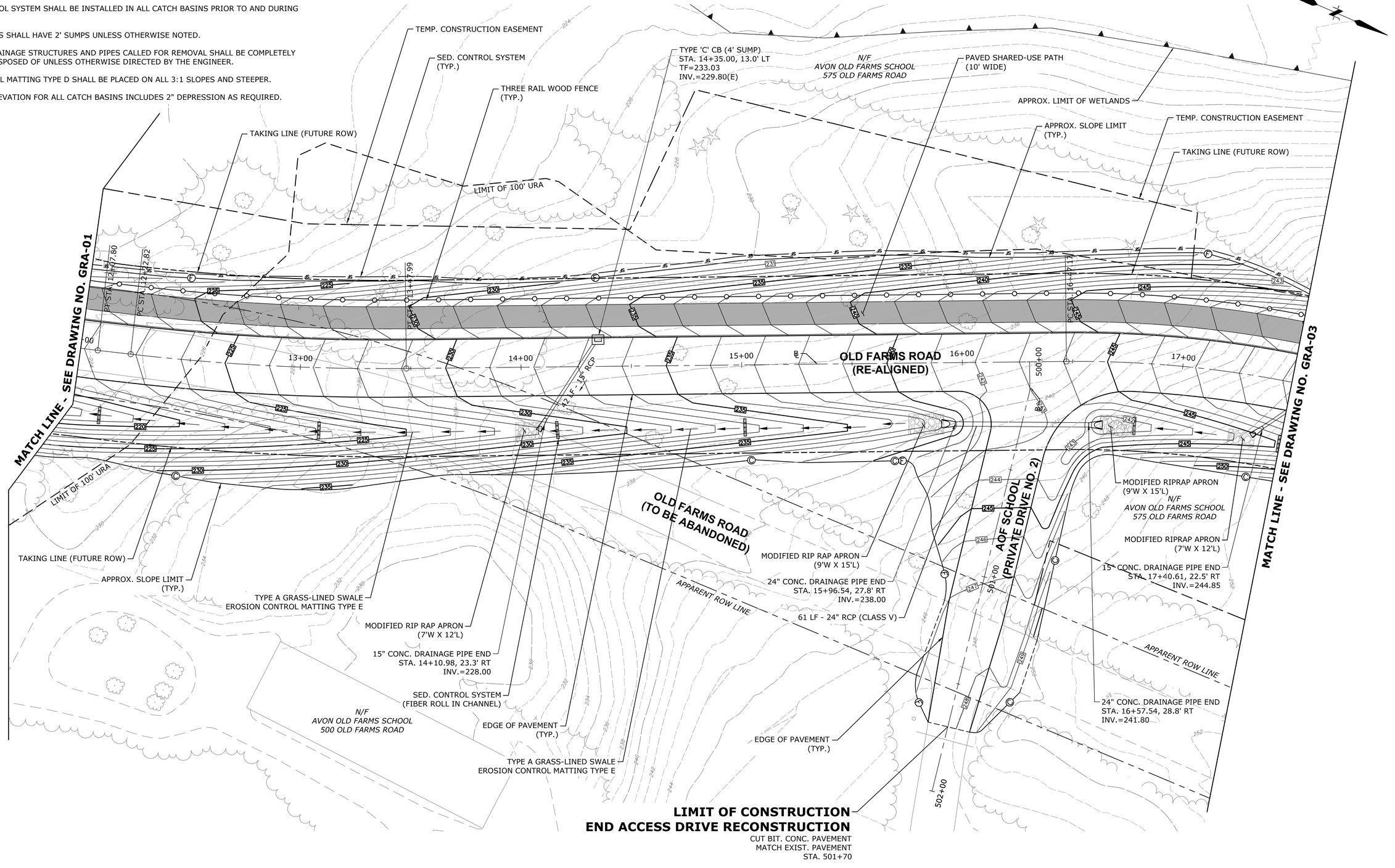
4. EROSION CONTROL MATTING TYPE D SHALL BE PLACED ON ALL 3:1 SLOPES AND STEEPER.
5. TOP OF FRAME ELEVATION FOR ALL CATCH BASINS INCLUDES 2" DEPRESSION AS REQUIRED.



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MS VIEW: GRA-02 | LAYER STATE: GRA-01-08 | Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

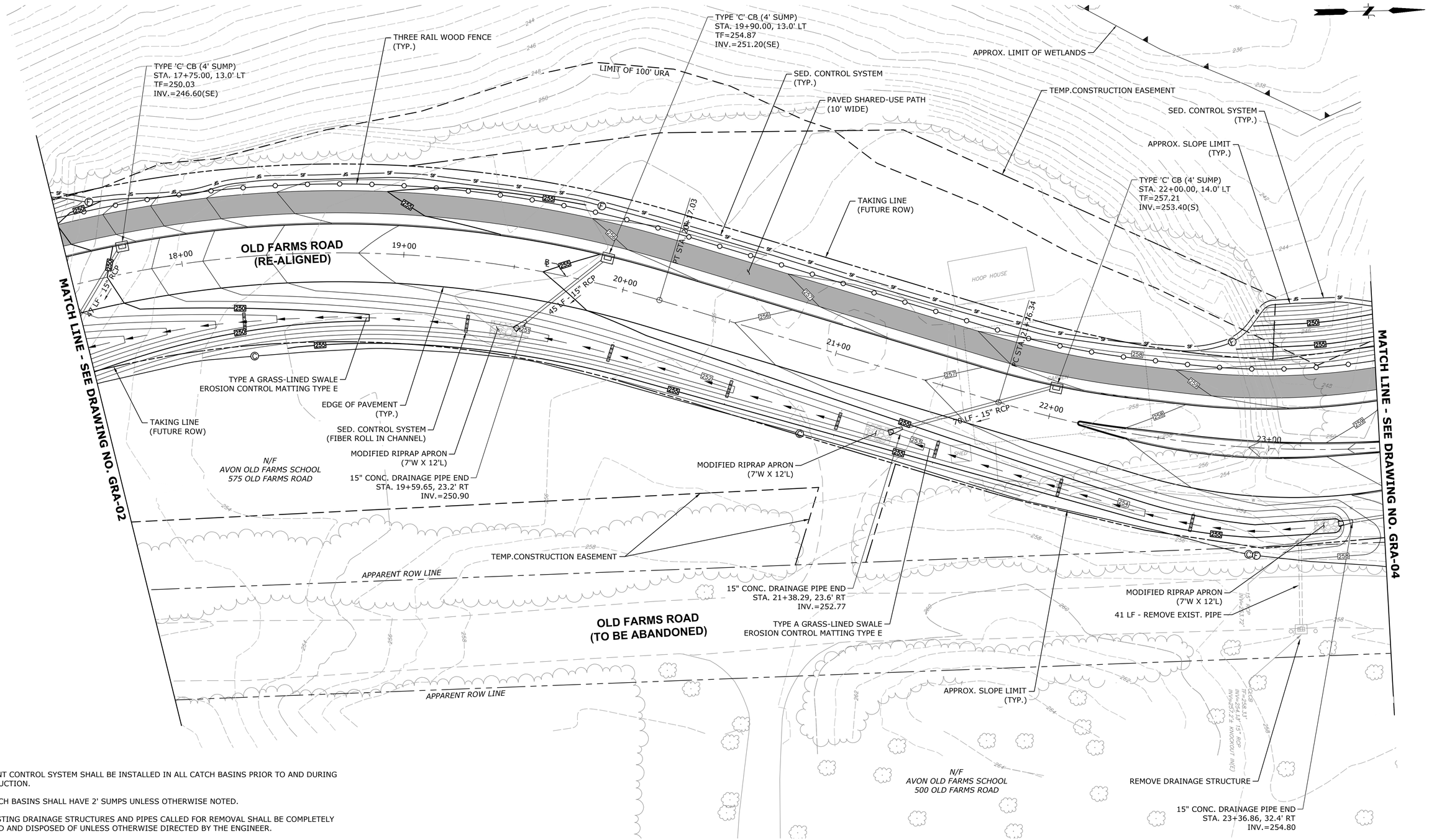
GRADING, DRAINAGE, AND EROSION & SEDIMENTATION CONTROL PLANS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

GRA-02



NOTES:

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4. EROSION CONTROL MATTING TYPE D SHALL BE PLACED ON ALL 3:1 SLOPES AND STEEPER.
5. TOP OF FRAME ELEVATION FOR ALL CATCH BASINS INCLUDES 2" DEPRESSION AS REQUIRED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

GRADING, DRAINAGE, AND EROSION & SEDIMENTATION CONTROL PLANS

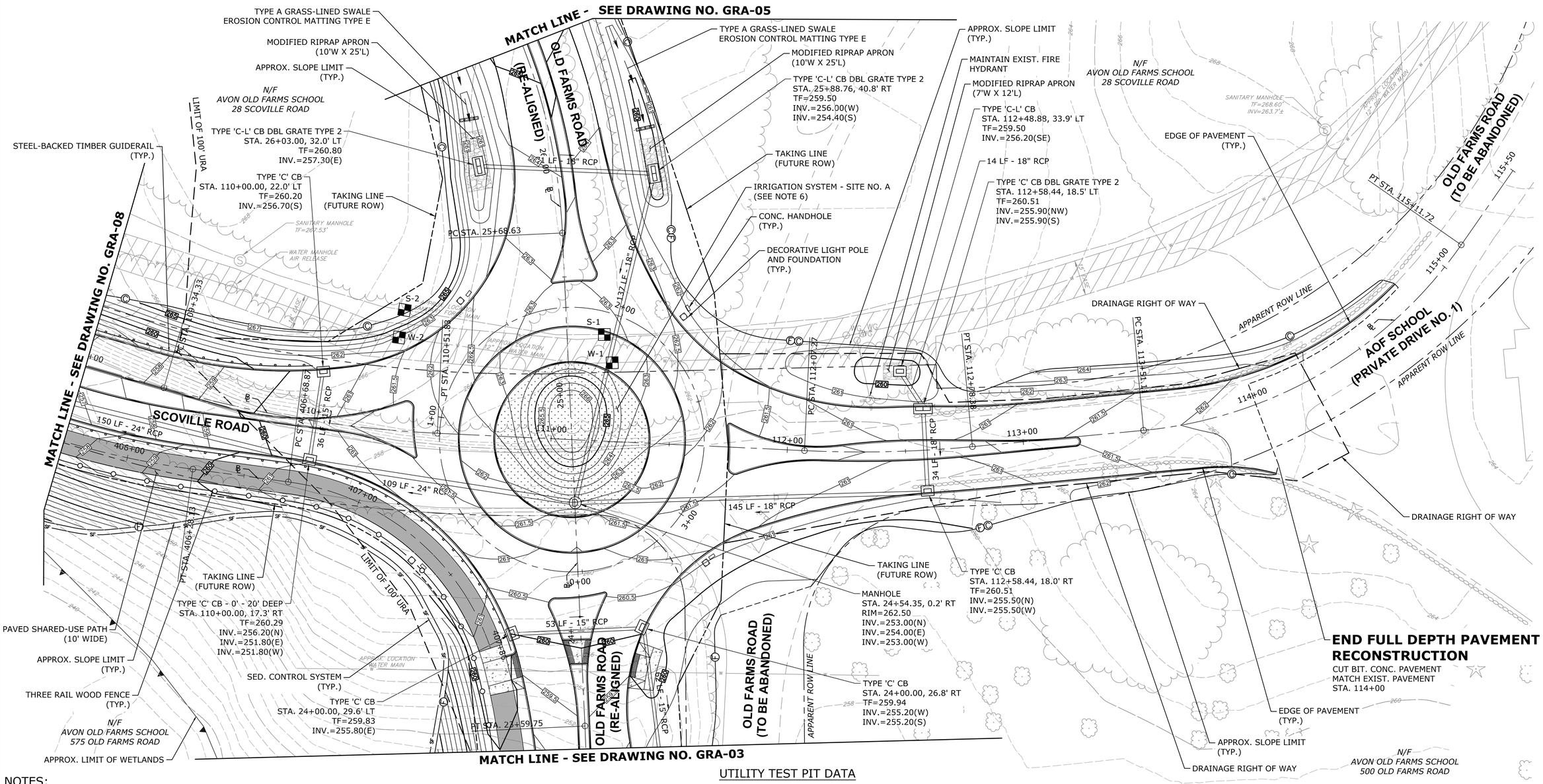
REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

GRA-03

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_GRA01.dwg Layout: GRA-03 Plotted: Tue, February 28, 2023 - 3:24 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: GRA-03 LAYER STATE: GRA-01-08



NOTES:

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4. EROSION CONTROL MATTING TYPE D SHALL BE PLACED ON ALL 3:1 SLOPES AND STEEPER.
5. TOP OF FRAME ELEVATION FOR ALL CATCH BASINS INCLUDES 2" DEPRESSION AS REQUIRED.
6. SEE SPECIAL PROVISION FOR ITEM NO. 0950050A - IRRIGATION SYSTEM - SITE NO. A.
7. SEE ILLUMINATION PLANS FOR INTERSECTION LIGHTING PLANS AND DETAILS.

UTILITY TEST PIT DATA

TEST PIT #	BASELINE STATION	BASELINE OFFSET	NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)	UTILITY DESCRIPTION	RELOCATION ANTICIPATED
WATER (CT WATER)								
W-1	2+05.56	19.27' RT	844139.56	975057.91	262.59	257.32	12" DUCTILE IRON	NO
W-2	1+12.63	28.94' LT	844149.97	974967.70	266.21	261.24	12" DUCTILE IRON	NO
SANITARY SEWER (AVON OLD FARMS SCHOOL)								
S-1	1+95.26	9.45' RT	844151.51	975054.53	262.41	257.93	FORCE MAIN	NO
S-2	1+27.45	33.57' LT	844161.61	974969.97	266.37	261.10	FORCE MAIN	NO

TEST PIT NOTES:

THIS UTILITY INFORMATION IS BASED ON LIMITED FIELD INVESTIGATIONS AND IS PRESENTED FOR INFORMATIONAL PURPOSES ONLY. IN SOME CASES THE FACILITY WAS NOT COMPLETELY EXPOSED TO POSITIVELY VERIFY ITS SIZE OR MATERIAL TYPE. THE CONTRACTOR IS STILL REQUIRED TO COORDINATE ITS CONSTRUCTION ACTIVITIES SO THAT THE UTILITIES ARE PROTECTED AT ALL TIMES.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
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20 10 0 20
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TOWN OF AVON

GRADING, DRAINAGE, AND EROSION & SEDIMENTATION CONTROL PLANS

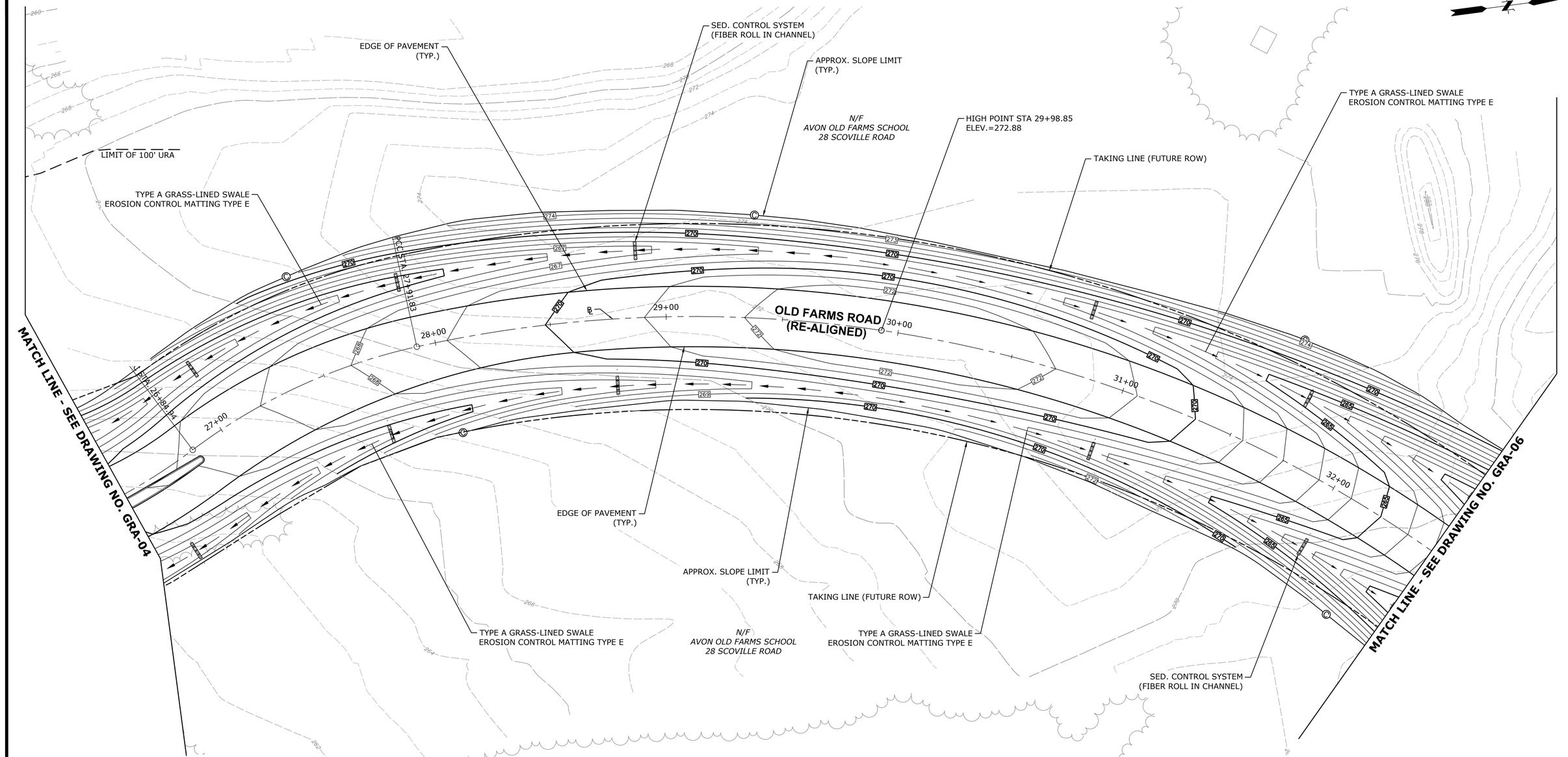
REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

GRA-04

File Path: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_GRA01.dwg Layout: GRA-04 Plotted: Thu, March 02, 2023 - 8:41 AM User: sbearce
Plotter: DWG TO PDF.PC3 CTB File: FO.STB
LAYER STATE: GRA-01-08
MS VIEW: GRA-04



NOTES:

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2. ALL CATCH BASINS SHALL HAVE 2' SUMPS UNLESS OTHERWISE NOTED.
3. ALL EXISTING DRAINAGE STRUCTURES AND PIPES CALLED FOR REMOVAL SHALL BE COMPLETELY REMOVED AND DISPOSED OF UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
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5. TOP OF FRAME ELEVATION FOR ALL CATCH BASINS INCLUDES 2" DEPRESSION AS REQUIRED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
20 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

GRADING, DRAINAGE, AND EROSION & SEDIMENTATION CONTROL PLANS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

GRA-05

File Path: J:\DWG\P2016\0663A30\Civil\Plan\20160663A30_GRA01.dwg Layout: GRA-05 Plotted: Tue, February 28, 2023 - 3:24 PM User: sbearce
MS VIEW: GRA-05 LAYER STATE: GRA-01-08 Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

TYPE A GRASS-LINED SWALE
EROSION CONTROL MATTING TYPE E

MODIFIED RIPRAP APRON
(10'W X 25'L)

TYPE 'C-L' CB
STA. 32+95.00, 29.0' LT
TF=255.38
INV.=252.13(NE)

126 LF - 15" RCP

N/F
AVON OLD FARMS SCHOOL
28 SCOVILLE ROAD

MATCH LINE - SEE DRAWING NO. GRA-05

33+00

34+00

35+00

36+00

APPROX. SLOPE LIMIT
(TYP.)

TYPE A GRASS-LINED SWALE
EROSION CONTROL MATTING TYPE E

TYPE A GRASS-LINED SWALE
EROSION CONTROL MATTING TYPE E

MODIFIED RIPRAP APRON
(10'W X 25'L)

TYPE 'C-L' CB DBL GRATE TYPE 2
STA. 34+20.00, 29.0' LT
TF=245.61
INV.=242.36(SW)
INV.=242.11(E)

SED. CONTROL SYSTEM
(FIBER ROLL IN CHANNEL)

TAKING LINE
(FUTURE ROW)

TAKING LINE
(FUTURE ROW)

TYPE A GRASS-LINED SWALE
EROSION CONTROL MATTING TYPE E

N/F
AVON OLD FARMS SCHOOL
28 SCOVILLE ROAD

MODIFIED RIPRAP APRON
(10'W X 25'L)

TYPE 'C-L' CB DBL GRATE TYPE 2
STA. 35+21.00, 29.0' RT
TF=240.03
INV.=236.78(E)

TYPE A GRASS-LINED SWALE
EROSION CONTROL MATTING TYPE E

SED. CONTROL SYSTEM
(FIBER ROLL IN CHANNEL)

MODIFIED RIPRAP APRON
(10'W X 25'L)

TYPE 'C-L' CB
DBL GRATE TYPE 2 (4' SUMP)
STA. 36+71.00, 29.0' RT
TF=236.60
INV.=233.35(W)
INV.=232.60(N)

EDGE OF PAVEMENT
(TYP.)

TYPE A GRASS-LINED SWALE
EROSION CONTROL MATTING TYPE E

227 LF - 18" RCP

EDGE OF PAVEMENT
(TYP.)

APPROX. SLOPE LIMIT
(TYP.)

PROPERTY BOUNDARY LINE

135 LF - 15" RCP

MODIFIED RIPRAP APRON
(10'W X 45'L)

TYPE 'C-L' CB
DBL GRATE TYPE 2 (4' SUMP)
STA. 36+43.00, 29.0' LT
TF=236.45
INV.=232.95(W)
INV.=232.95(E)

12 LF - 18" RCP

TYPE 'C-L' CB
DBL GRATE TYPE 2 (4' SUMP)
STA. 36+61.00, 29.0' LT
TF=236.00
INV.=232.50(W)
INV.=232.50(SE)

N/F
AVON OLD FARMS SCHOOL
355 OLD FARMS ROAD

33 LF - 18" RCP

TYPE A GRASS-LINED SWALE
EROSION CONTROL MATTING TYPE E

OLD FARMS ROAD (RE-ALIGNED)

P.C. STA. 36+11.10

24" RCP

37+00

173 LF - 24" RCP

P.T. STA. 37+84.31

38+00

MANHOLE
STA. 36+73.00, 5.5' RT
RIM=239.69
INV.=231.11(S)
INV.=231.61(NW)
INV.=231.11(E)

MATCH LINE - SEE DRAWING NO. GRA-07

NOTES:

1. SEDIMENT CONTROL SYSTEM SHALL BE INSTALLED IN ALL CATCH BASINS PRIOR TO AND DURING CONSTRUCTION.
2. ALL CATCH BASINS SHALL HAVE 2' SUMPS UNLESS OTHERWISE NOTED.
3. ALL EXISTING DRAINAGE STRUCTURES AND PIPES CALLED FOR REMOVAL SHALL BE COMPLETELY REMOVED AND DISPOSED OF UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. EROSION CONTROL MATTING TYPE D SHALL BE PLACED ON ALL 3:1 SLOPES AND STEEPER.
5. TOP OF FRAME ELEVATION FOR ALL CATCH BASINS INCLUDES 2" DEPRESSION AS REQUIRED.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
GRA-06 10 0 20
GRAPHIC SCALE

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TOWN OF AVON

GRADING, DRAINAGE, AND EROSION & SEDIMENTATION CONTROL PLANS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

GRA-06

File Path: J:\DWG\P2016\0663A30\Civil\Plan\20160663A30_GRA01.dwg Layout: GRA-06 Plotted: Tue, February 28, 2023 - 3:24 PM User: sbearce
MS VIEW: LAYER STATE: GRA-01-08 Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

NOTES:

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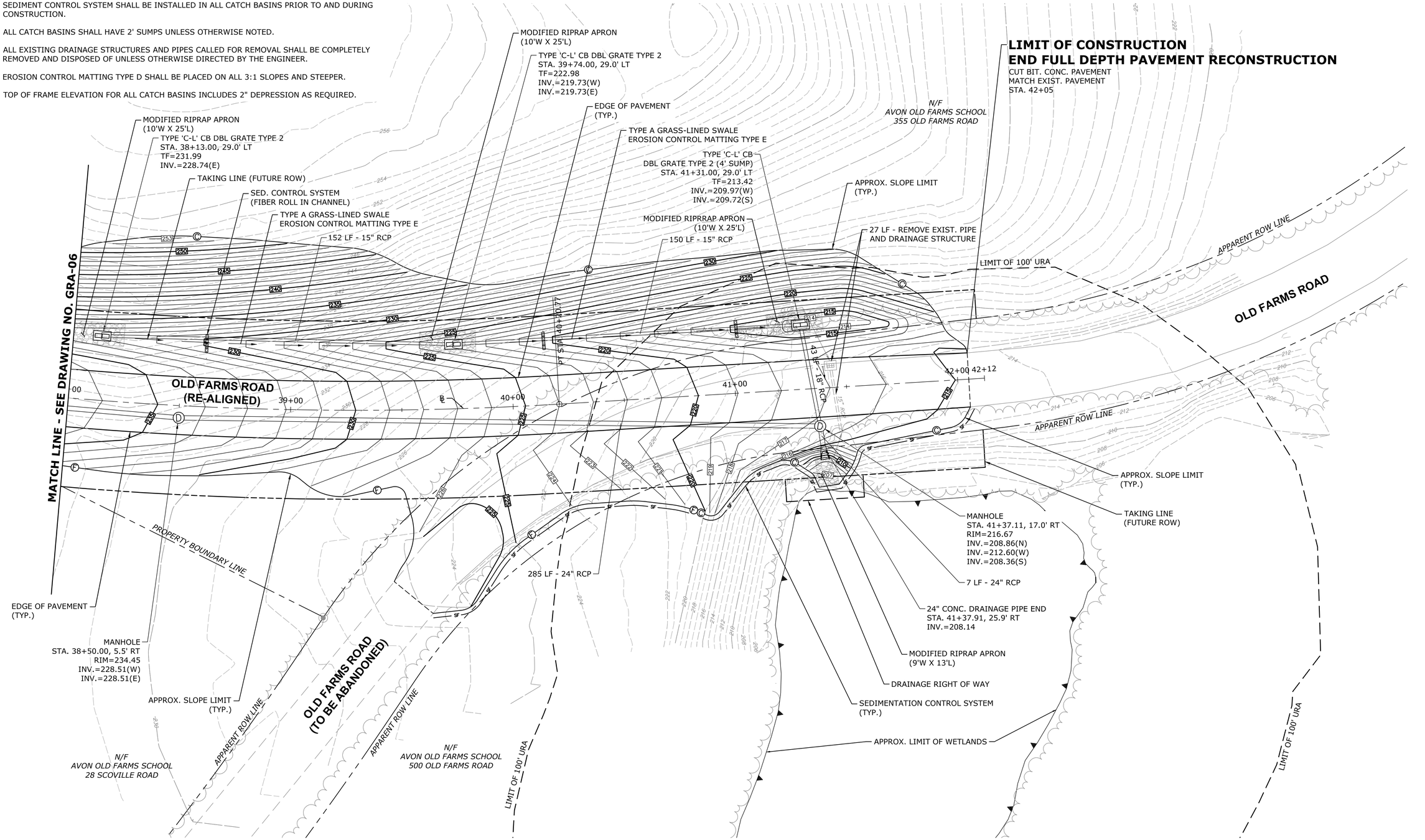
5. TOP OF FRAME ELEVATION FOR ALL CATCH BASINS INCLUDES 2" DEPRESSION AS REQUIRED.



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			SAL	SKB

SEAL

SEAL

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GRAPHIC SCALE

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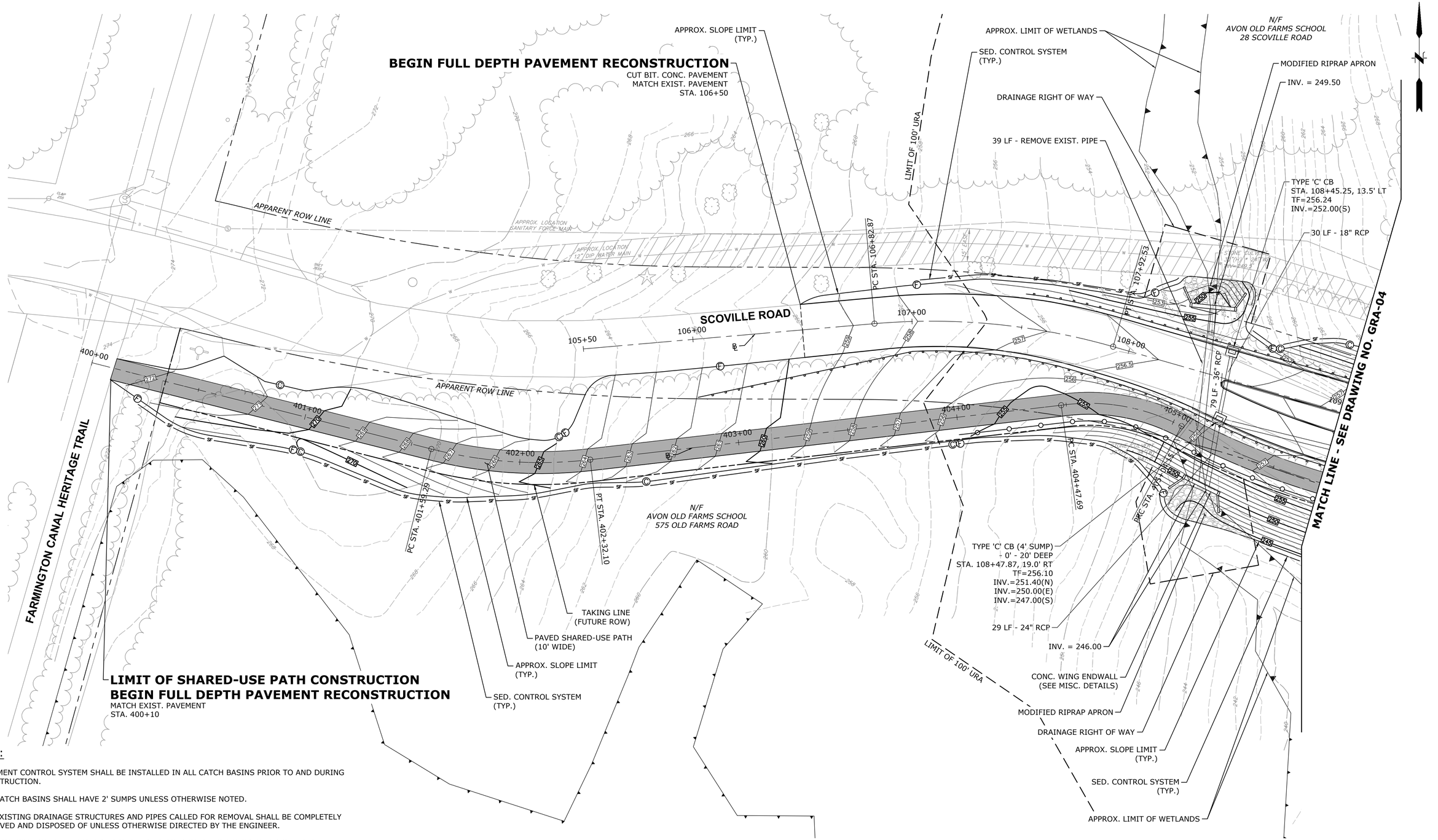
REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

GRA-07

File Path: J:\DWG\P20\20160663A30\Civil\Plan\20160663A30_GRA01.dwg Layout: GRA-07 Plotted: Tue, February 28, 2023 - 3:24 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: GRA-07 LAYER STATE: GRA-01-08



NOTES:

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GRADING, DRAINAGE, AND EROSION & SEDIMENTATION CONTROL PLANS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

GRA-08

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_GRA01.dwg Layout: GRA-08 Plotted: Tue, February 28, 2023 - 3:25 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE: GRA-01-08
MS VIEW: GRA-08

LEGEND

ID	NUMBER	DESCRIPTION	ID	NUMBER	DESCRIPTION
A	31-0552 (30"x30")	STOP	J	51-2010 (48"x12")	OLD FARMS RD
B	41-0501 (30"x30")				
C	51-5202R (60"x12")	THOMPSON RD →			
D	51-5202L (60"x12")	← OLD FARMS RD			

MATCH LINE - SEE DRAWING NO. PVT-02

4" WHITE EPOXY RESIN PAVEMENT MARKING

OLD FARMS ROAD (RE-ALIGNED)

4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING

4" WHITE EPOXY RESIN PAVEMENT MARKING

EPOXY RESIN PAVEMENT MARKING SYMBOL, AND LEGEND 10.5 LF, 12" STOP BAR

EPOXY RESIN PAVEMENT MARKING SYMBOLS, AND LEGEND 8' CROSS WALK

OLD FARMS ROAD (TO BE ABANDONED)

EPOXY RESIN PAVEMENT MARKING SYMBOL, AND LEGEND 10.5 LF, 12" STOP BAR

4" WHITE EPOXY RESIN PAVEMENT MARKING

LIMIT OF CONSTRUCTION
THOMPSON ROAD
MATCH EXIST. PAVEMENT
STA. 201+50

PC STA. 200+35.67

THOMPSON ROAD

200+00

201+00

202+00

PC STA. 10+09.17

203+00

10+00

11+00

204+00

205+00

206+00

OLD FARMS ROAD

PT STA. 206+20.93

PT STA. 204+45.84

PC STA. 204+55.79

REMOVE EXIST. SIGN

LIMIT OF CONSTRUCTION
OLD FARMS ROAD
MATCH EXIST. PAVEMENT
STA. 205+00

4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING

EPOXY RESIN PAVEMENT MARKING SYMBOL, AND LEGEND 10.5 LF, 12" STOP BAR

4" WHITE EPOXY RESIN PAVEMENT MARKING

SIGNS "C" AND "D" TO BE MOUNTED ON SAME POSTS

EPOXY RESIN PAVEMENT MARKING SYMBOLS, AND LEGEND 8' CROSS WALK

4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING

PT STA. 202+78.65

PC STA. 203+30.84

REMOVE EXIST. SIGN

4" WHITE EPOXY RESIN PAVEMENT MARKING

REMOVE AND RELOCATE EXISTING "MOTORCYCLE" WARNING SIGN

REMOVE AND RELOCATE EXISTING "NARROW BRIDGE" WARNING SIGN

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

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

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TOWN OF AVON

PAVEMENT MARKING & SIGNING PLANS

REALIGNMENT OF OLD FARMS ROAD

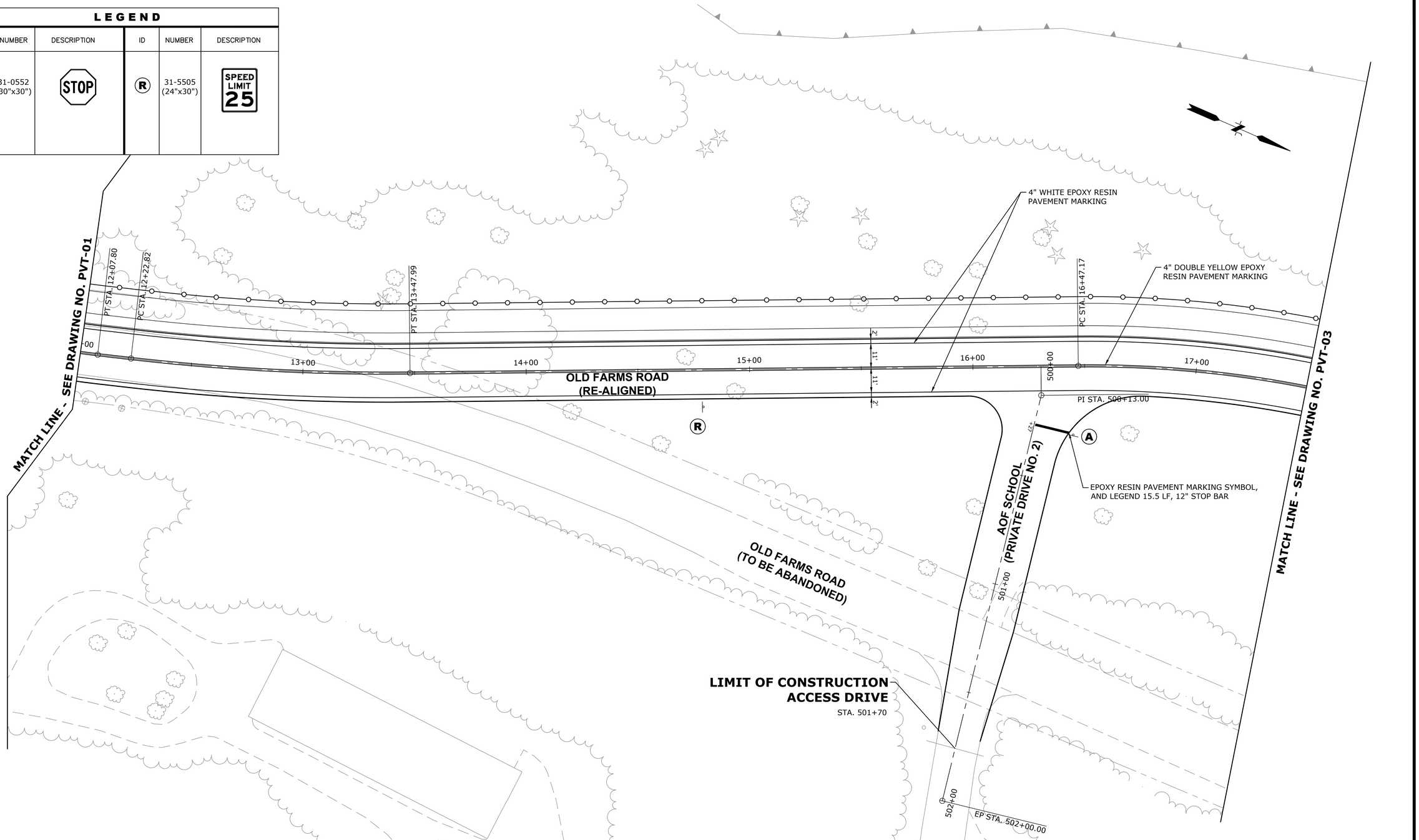
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PVT-01

File Path: J:\DWG\P2016\0663A30\Civil\Plan\20160663A30_PVT01.dwg Layout: PVT-01 Plotted: Wed, March 01, 2023 - 9:15 AM User: sbearce
MS VIEW: LAYER STATE:
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

LEGEND					
ID	NUMBER	DESCRIPTION	ID	NUMBER	DESCRIPTION
(A)	31-0552 (30"x30")	STOP	(R)	31-5505 (24"x30")	SPEED LIMIT 25



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SEAL

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SCALE:
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DATUM:
HORZ.:
VERT.:
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GRAPHIC SCALE

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TOWN OF AVON

PAVEMENT MARKING & SIGNING PLANS

REALIGNMENT OF OLD FARMS ROAD

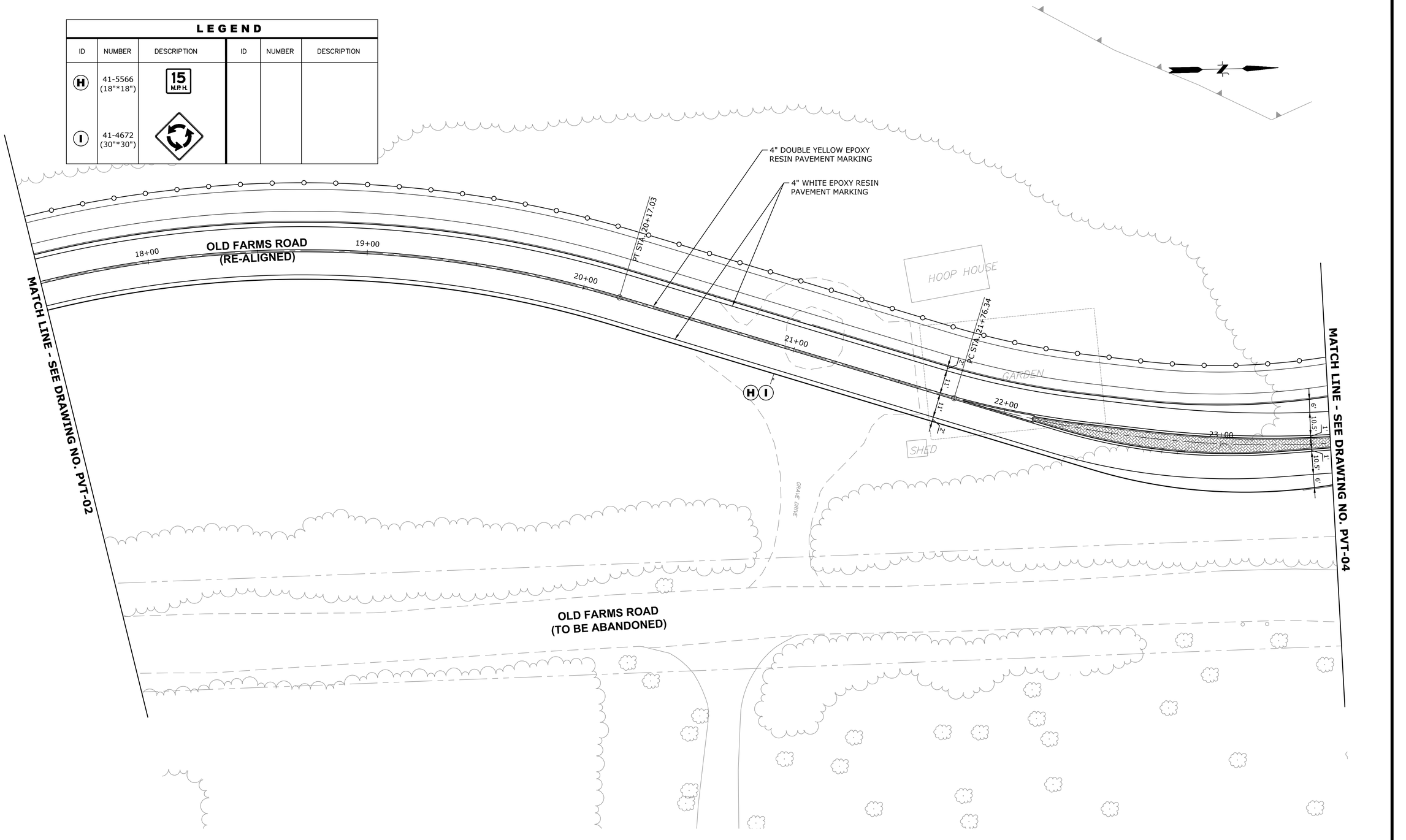
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PVT-02

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_PVT01.dwg Layout: PVT-02 Plotted: Wed, March 01, 2023 - 9:15 AM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

LEGEND					
ID	NUMBER	DESCRIPTION	ID	NUMBER	DESCRIPTION
H	41-5566 (18"*18")	15 M.P.H.			
I	41-4672 (30"*30")				



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SEAL

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TOWN OF AVON

PAVEMENT MARKING & SIGNING PLANS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PVT-03

File Path: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_PVT01.dwg Layout: PVT-03 Plotted: Wed, March 01, 2023 - 9:15 AM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

MATCH LINE - SEE DRAWING NO. PVT-05

MATCH LINE - SEE DRAWING NO. PVT-08

MATCH LINE - SEE DRAWING NO. PVT-03

OLD FARMS ROAD (RE-ALIGNED)

OLD FARMS ROAD (TO BE ABANDONED)

SCOVILLE ROAD

AOF SCHOOL (PRIVATE DRIVE NO. 01)

4" YELLOW EPOXY RESIN PAVEMENT MARKING

4" WHITE EPOXY RESIN PAVEMENT MARKING

EPOXY RESIN PAVEMENT MARKING SYMBOLS, AND LEGEND PAVEMENT ARROW (TYP.)

8" WHITE EPOXY RESIN PAVEMENT MARKING (TYP.) (2' LINE, 3' GAP)

YIELD LINE WHITE EPOXY RESIN PAVEMENT MARKING (TYP.)

SEE MDS-07 FOR ADDITIONAL SPLITTER ISLAND STRIPING DETAILS

LIMIT OF PAVEMENT MARKINGS
OLD FARMS ROAD / SCOVILLE ROAD
MATCH EXISTING PAVEMENT MARKINGS
STA. 115+50

EP STA. 115+50.00

PT STA. 115+11.72

PC STA. 25+68.63

PT STA. 110+51.88

PC STA. 109+34.33

PC STA. 112+07.27

PT STA. 112+78.38

PC STA. 113+51.11

PT STA. 406+28.13

PC STA. 406+68.87

EP STA. 407+85.55

PT STA. 23+59.75

LEGEND

ID	NUMBER	DESCRIPTION	ID	NUMBER	DESCRIPTION
E	31-1138 (30"x24")		H	41-5566 (18"x18")	15 M.P.H.
F	31-0523 (36"x36")	YIELD	I	41-4672 (30"x30")	
			N	51-5107 (48"x18")	SCOVILLE RD
G	41-4829 (30"x30")		O	51-5107 (48"x18")	OLD FARMS RD
			Q	51-5203 (60"x24")	AVON OLD FARMS SCHOOL
L	41-2617 (24"x12")				
M	41-2619 (24"x12")				

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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TOWN OF AVON

PAVEMENT MARKING & SIGNING PLANS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

PVT-04

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_PVT01.dwg Layout: PVT-04 Plotted: Wed, March 01, 2023 - 9:15 AM User: sbearce
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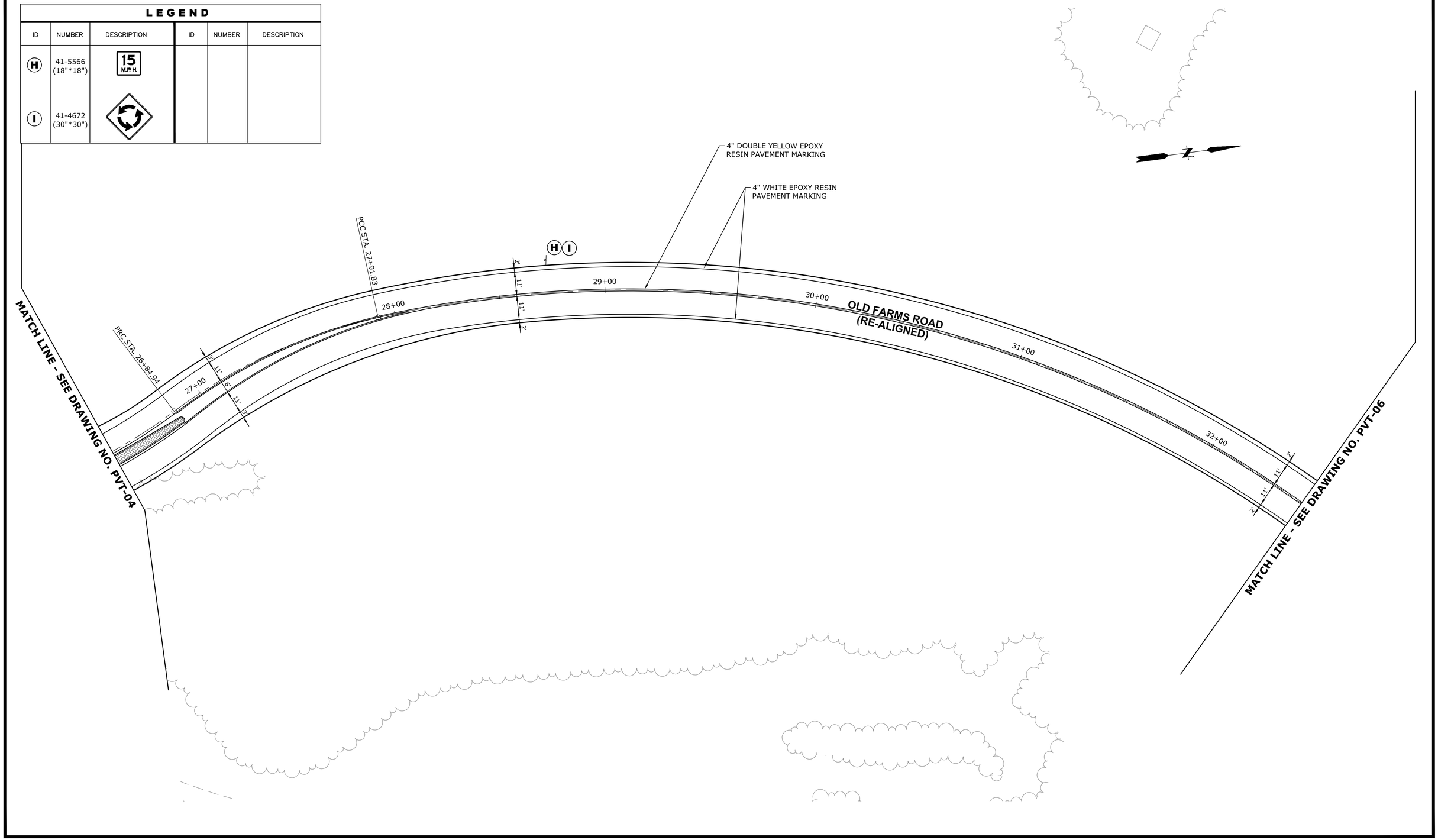
MS VIEW: LAYER STATE:

LEGEND

ID	NUMBER	DESCRIPTION	ID	NUMBER	DESCRIPTION
H	41-5566 (18"*18")	15 M.P.H.			
I	41-4672 (30"*30")				



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

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SCALE:
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AVON CONNECTICUT

PROJ. No.: 20160663.A30
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PVT-05

File Path: J:\DWG\P2016\0663A30\Civil\Plan\20160663A30_PVT01.dwg Layout: PVT-05 Plotted: Wed, March 01, 2023 - 9:16 AM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

LEGEND

ID	NUMBER	DESCRIPTION	ID	NUMBER	DESCRIPTION
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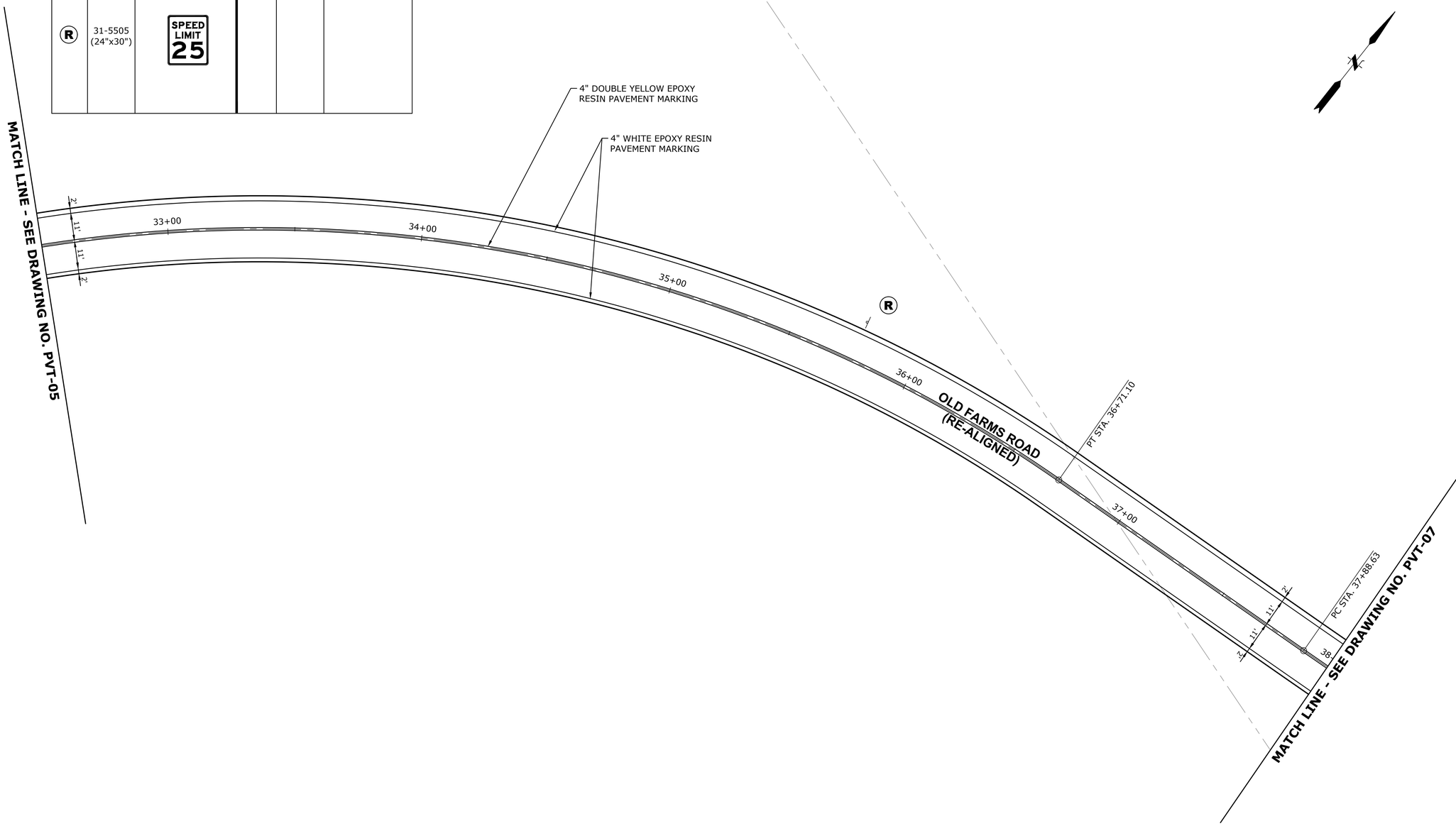

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SEAL

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PVT-06

File Path: J:\DWG\P2016\20663\A30\Civil\Plan\20160663A30_PVT01.dwg Layout: PVT-06 Plotted: Wed, March 01, 2023 - 9:16 AM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
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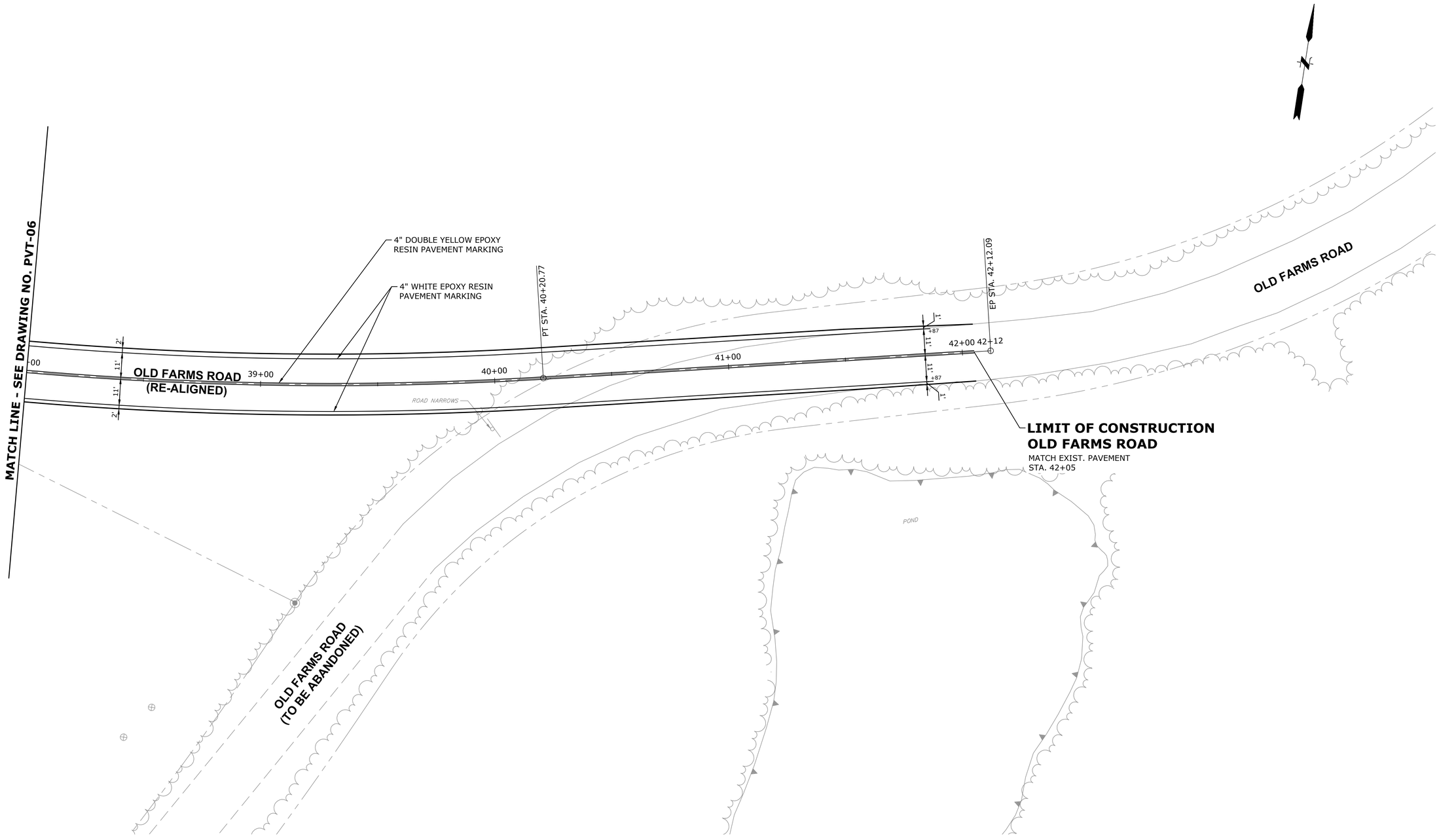

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PVT-07

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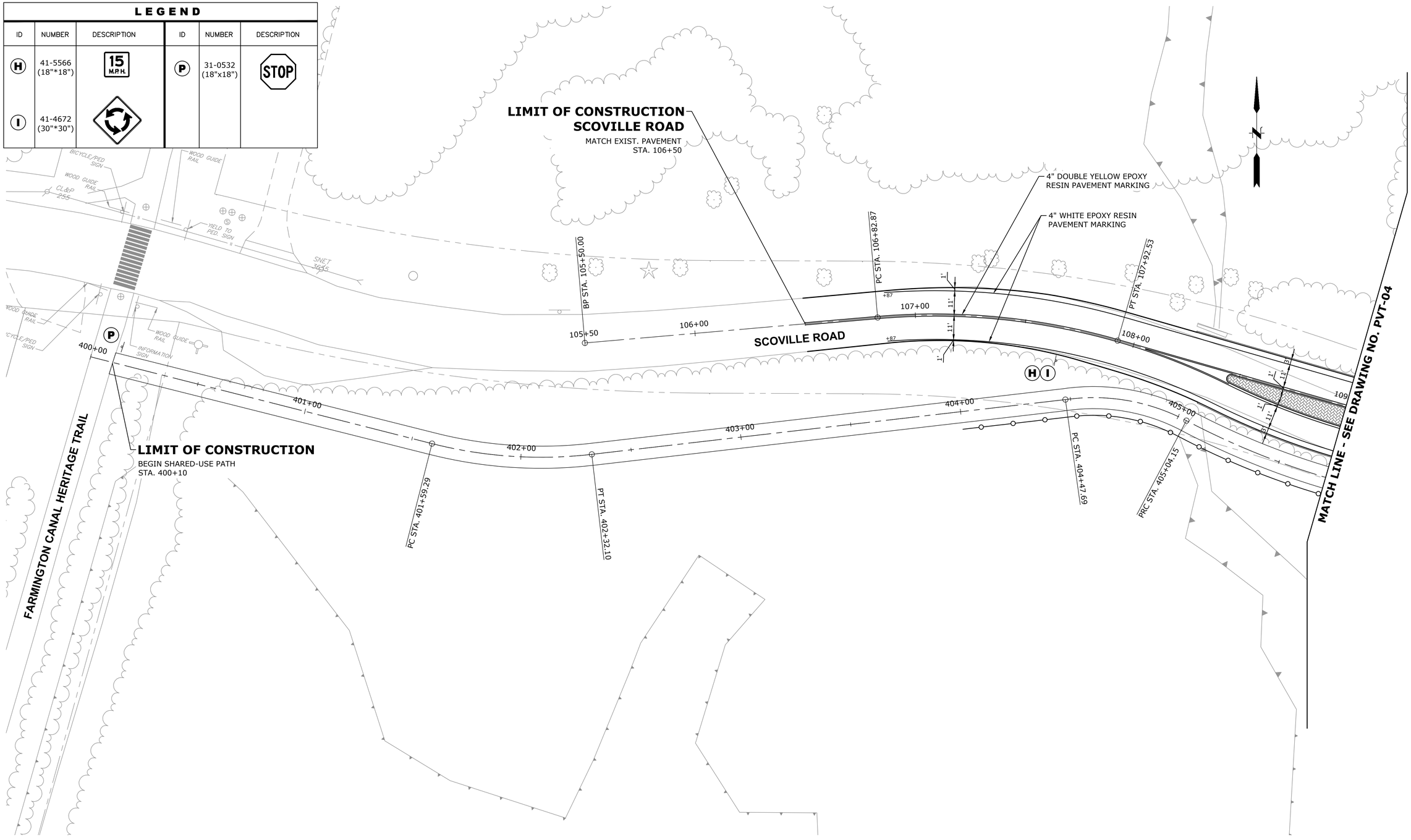
LEGEND					
ID	NUMBER	DESCRIPTION	ID	NUMBER	DESCRIPTION
H	41-5566 (18"*18")	15 M.P.H.	P	31-0532 (18"x18")	STOP
I	41-4672 (30"*30")				



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PVT-08

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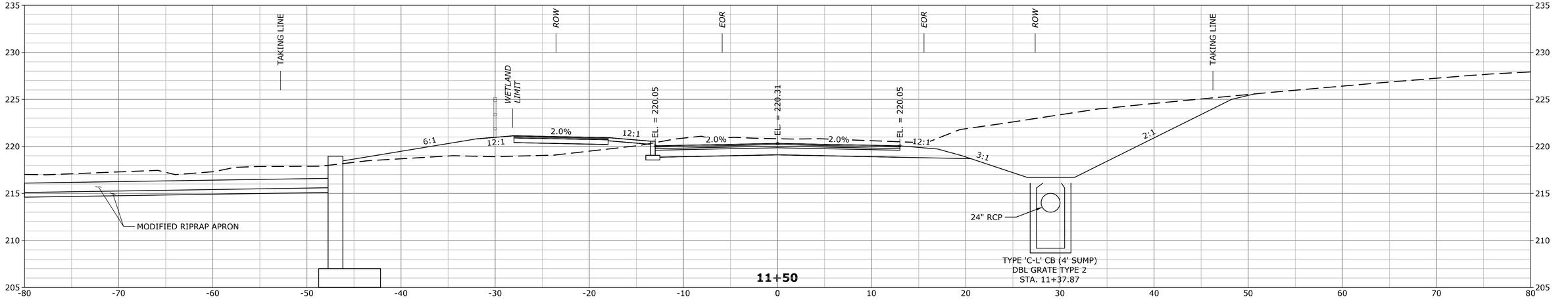

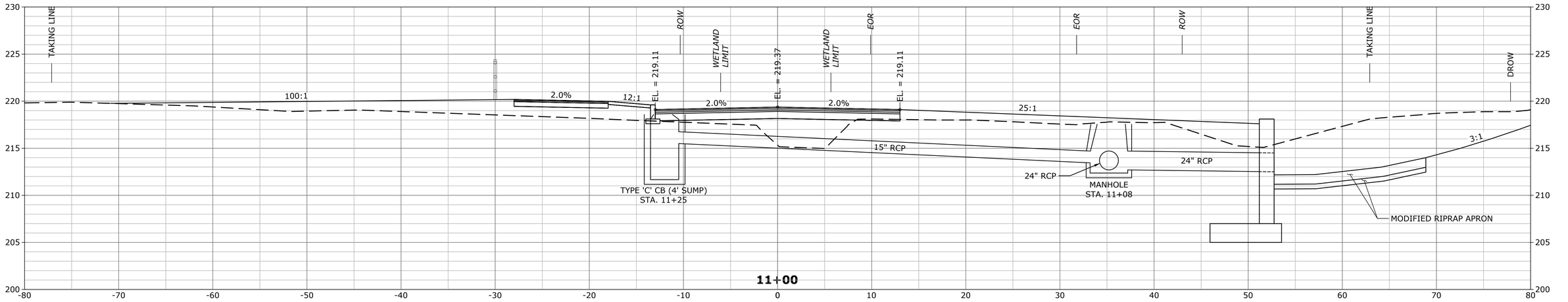

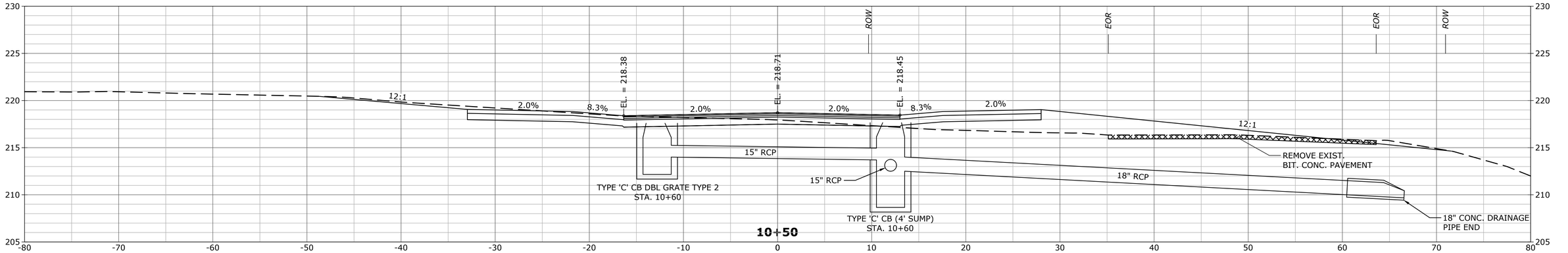

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'

DATUM:
HORZ.: NAD 83
VERT.: NAVD 88

5 2.5 0 5
GRAPHIC SCALE

FUSS & O'NEILL
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TOWN OF AVON

ROADWAY CROSS SECTIONS OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-01

File: J:\DWG\P20160663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-01 Plotted: 2023-03-01 11:30 AM Saved: 2023-03-01 11:30 AM User: SBearce
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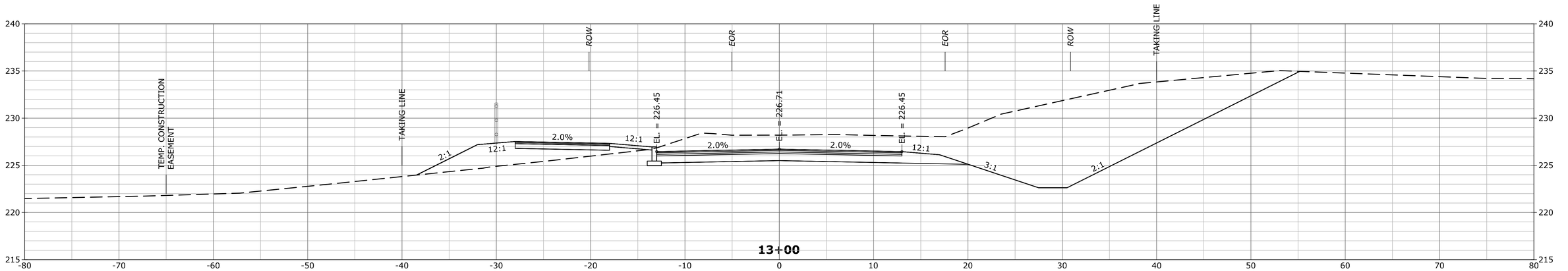
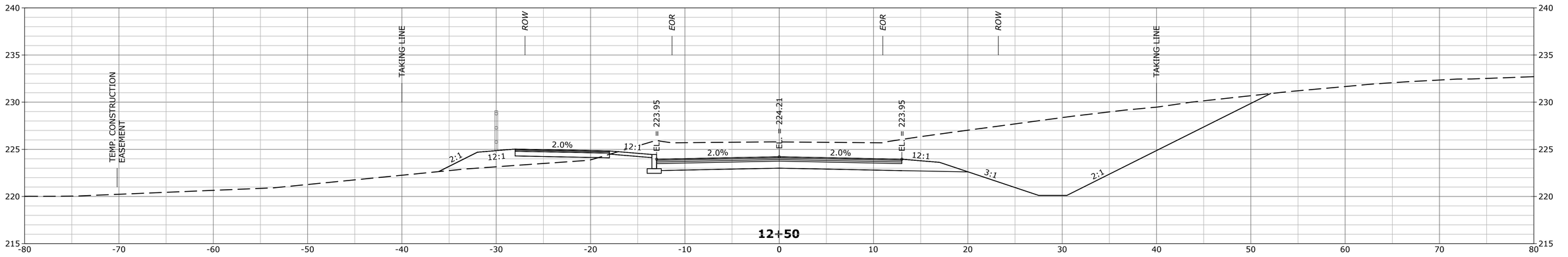
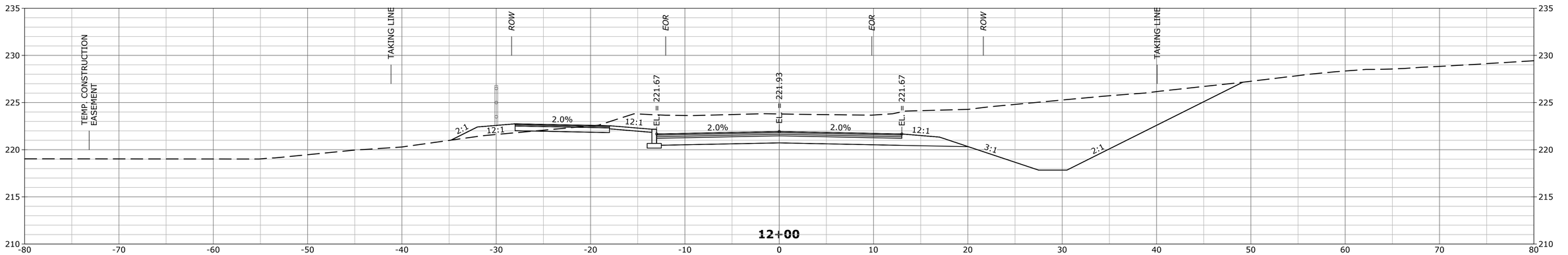
LAYER STATE:
MS VIEW:







No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-02

File: J:\DWG\P20160663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-02 Plotted: 2023-03-01 11:30 AM Saved: 2023-03-01 11:30 AM User: SBearce
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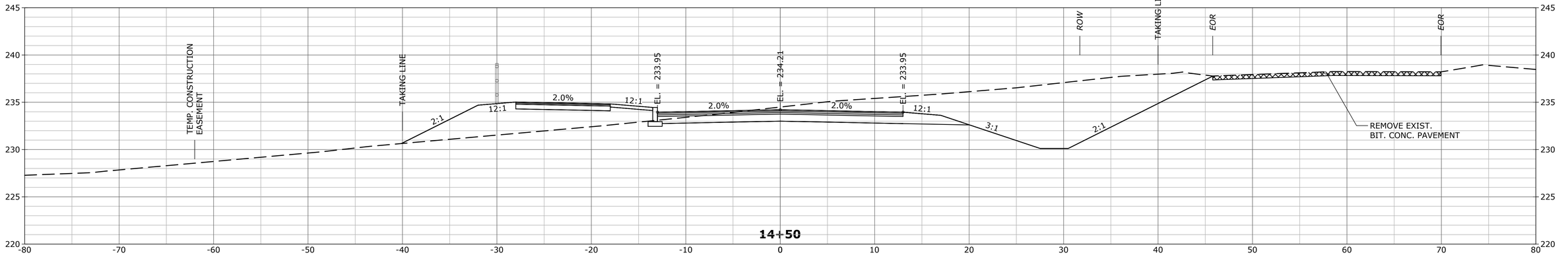

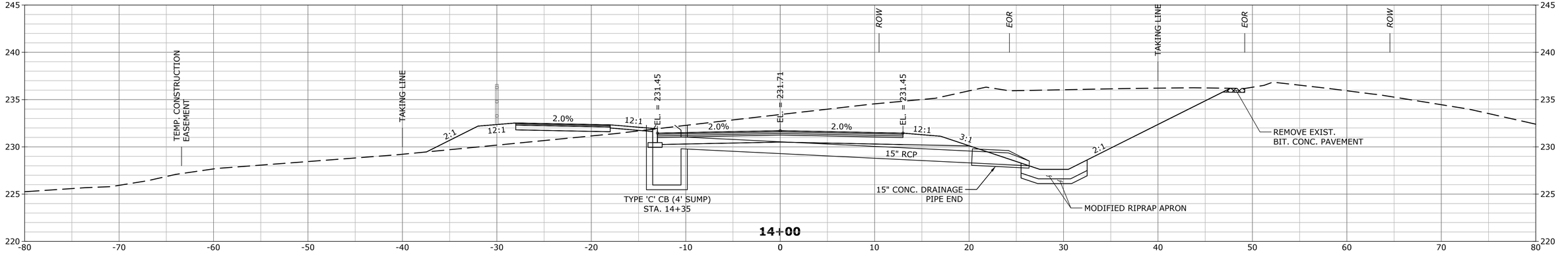

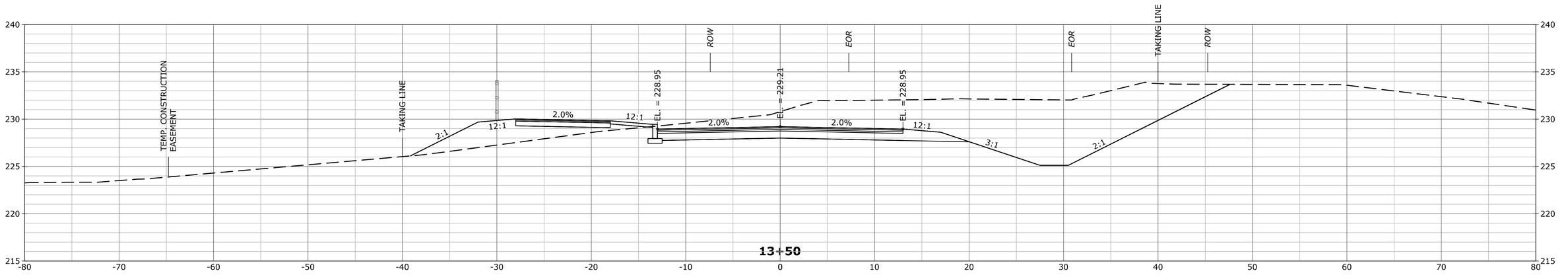

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-03

File: J:\DWG\P20160663A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-03 Plotted: 2023-03-01 11:30 AM Saved: 2023-03-01 11:30 AM User: SBearce
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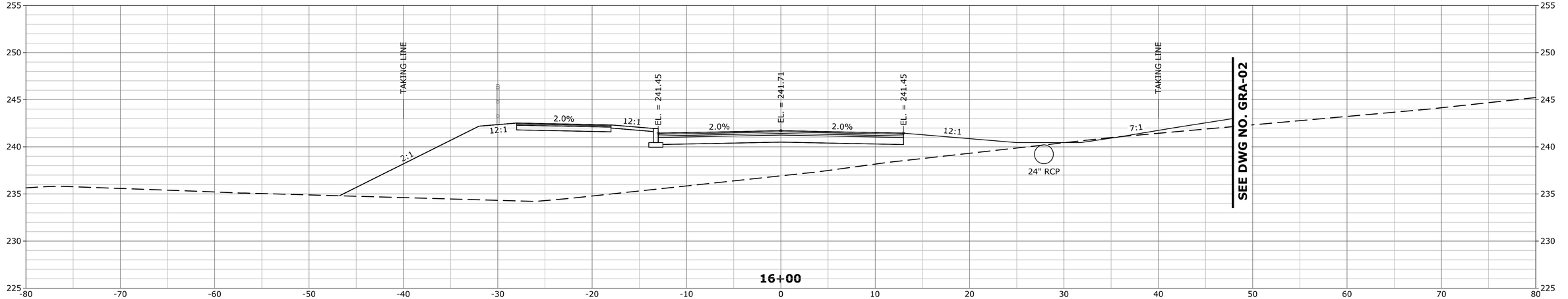

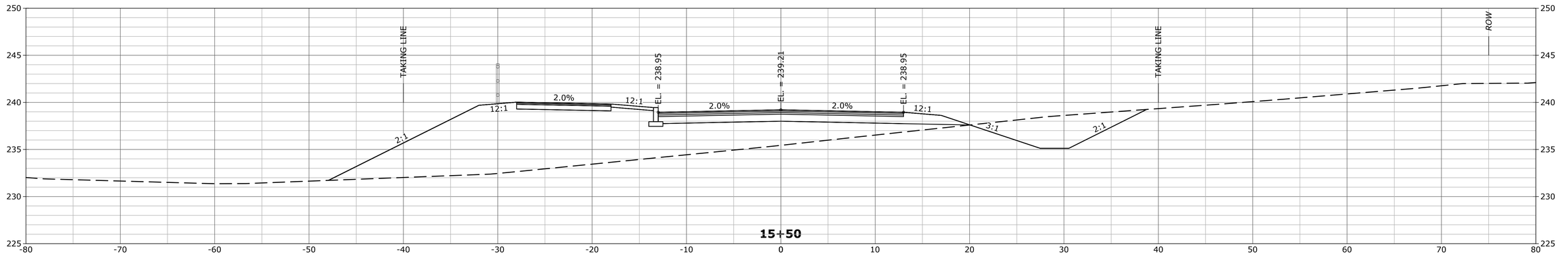

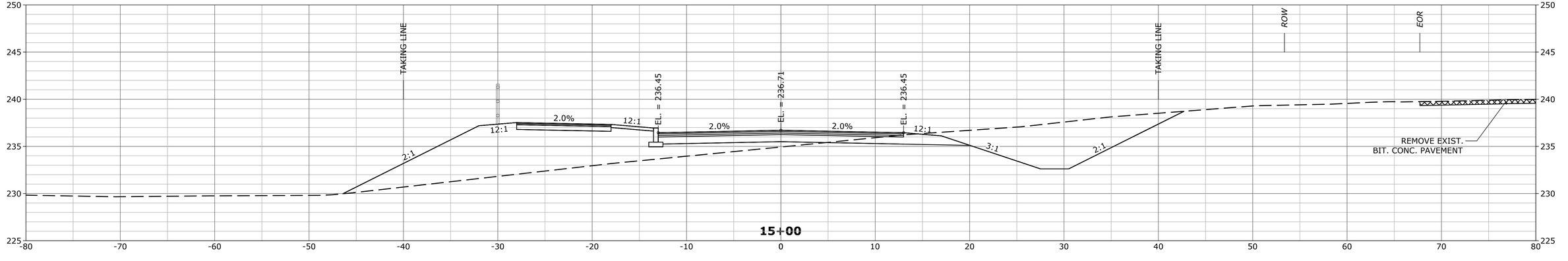

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-04

File: J:\DWG\P20\60663.A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-04 Plotted: 2023-03-01 11:31 AM Saved: 2023-03-01 11:30 AM User: SBearce
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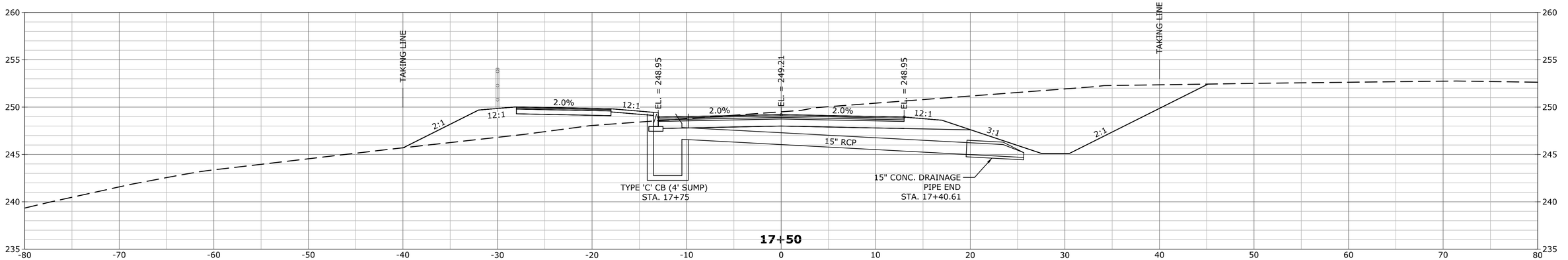

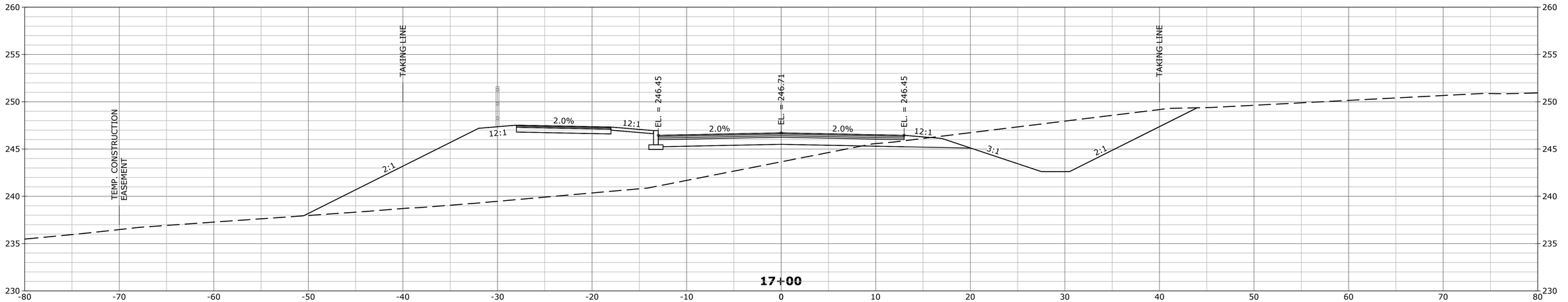

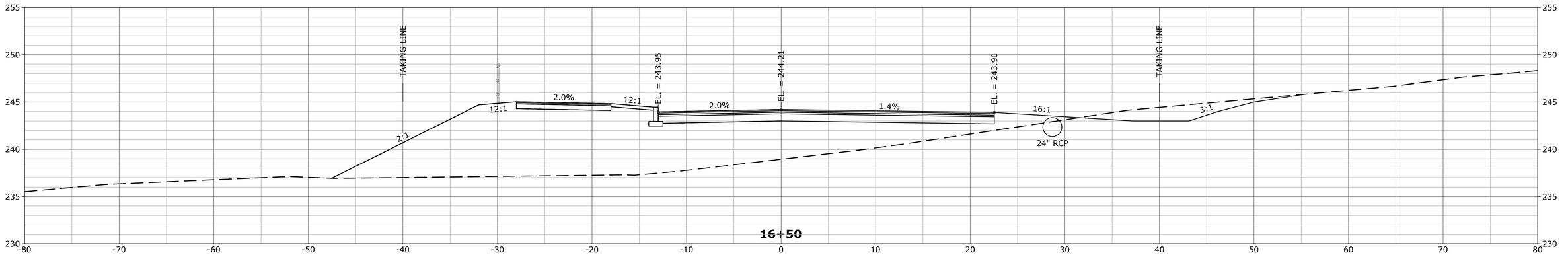

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-05

File: J:\DWG\P20160663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-05 Plotted: 2023-03-01 11:31 AM Saved: 2023-03-01 11:30 AM User: SBearce
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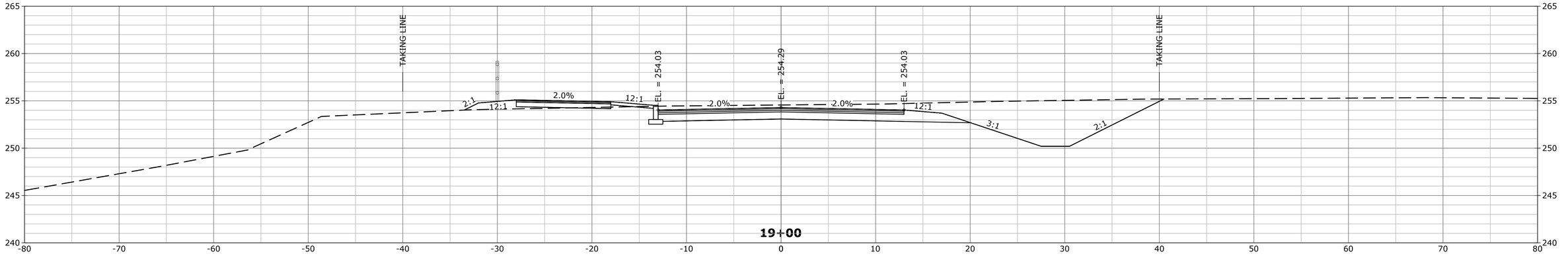

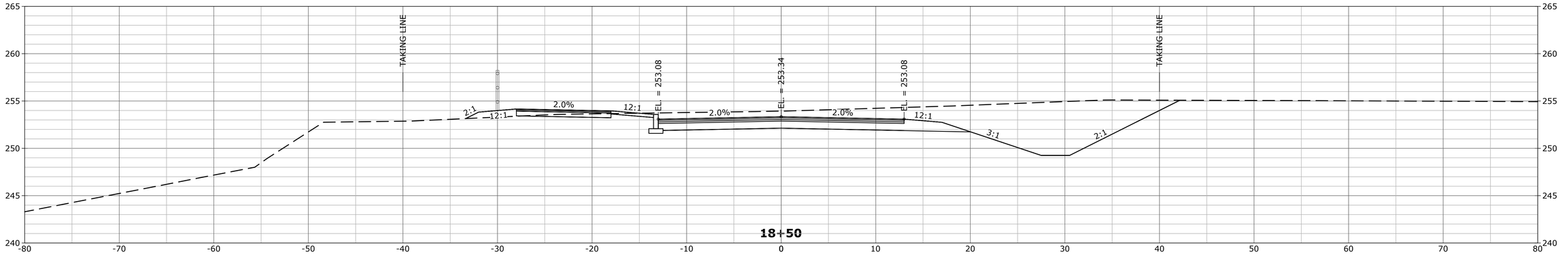

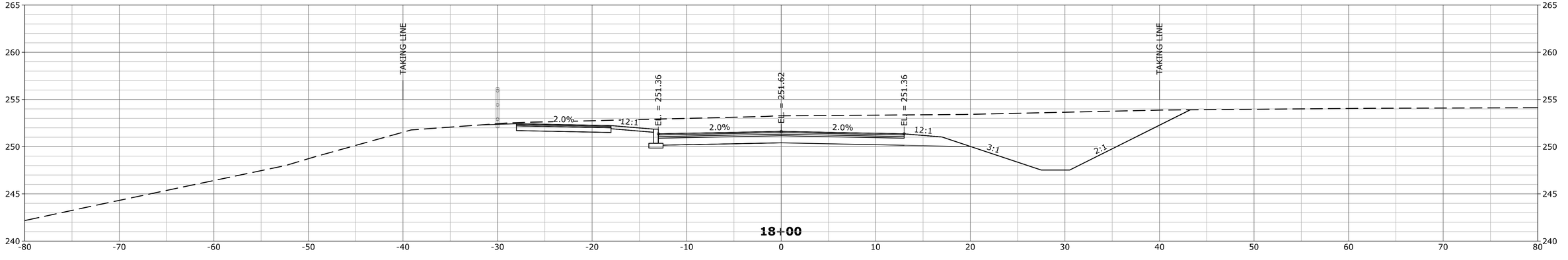

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-06

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-06 Plotted: 2023-03-01 11:31 AM Saved: 2023-03-01 11:30 AM User: SBearce
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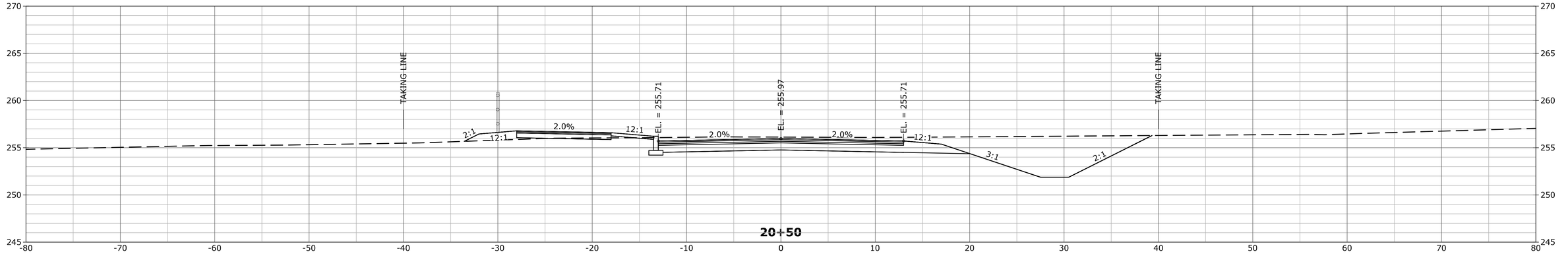

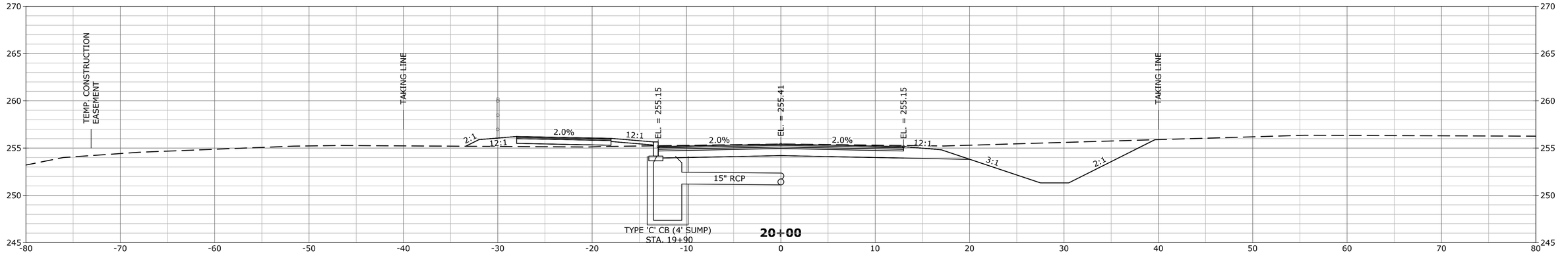

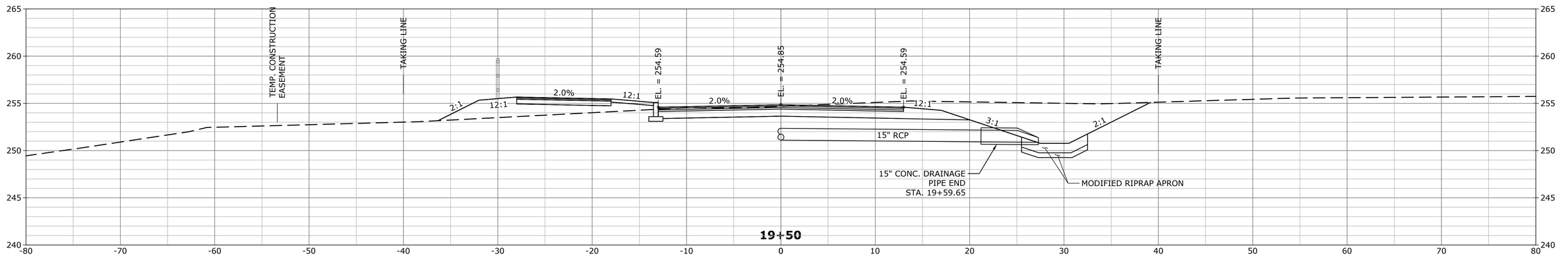

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-07

File: J:\DWG\P2016\20160663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-07 Plotted: 2023-03-01 11:31 AM Saved: 2023-03-01 11:30 AM User: SBearce
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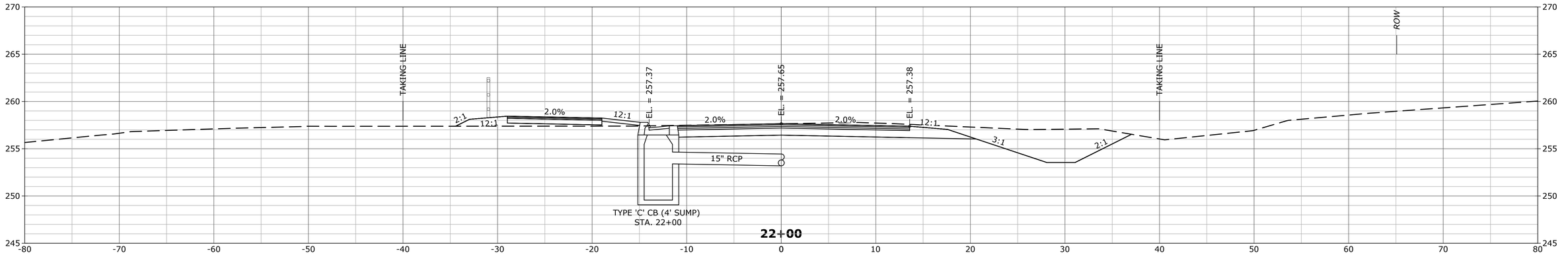

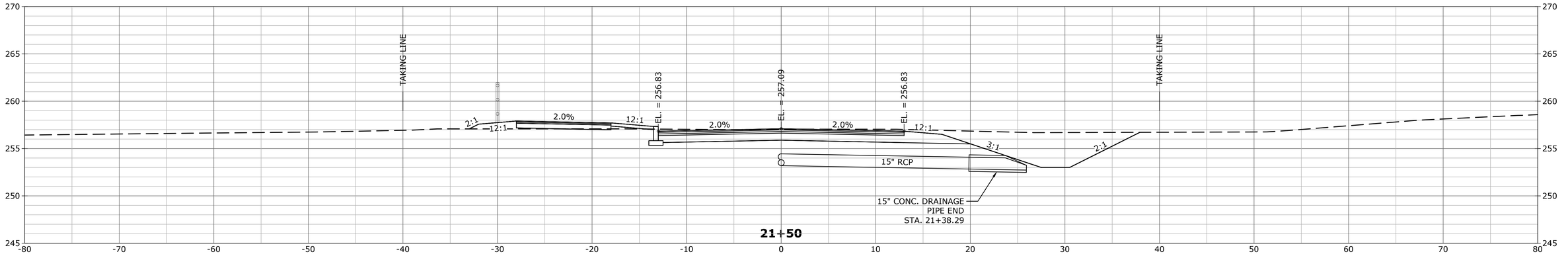

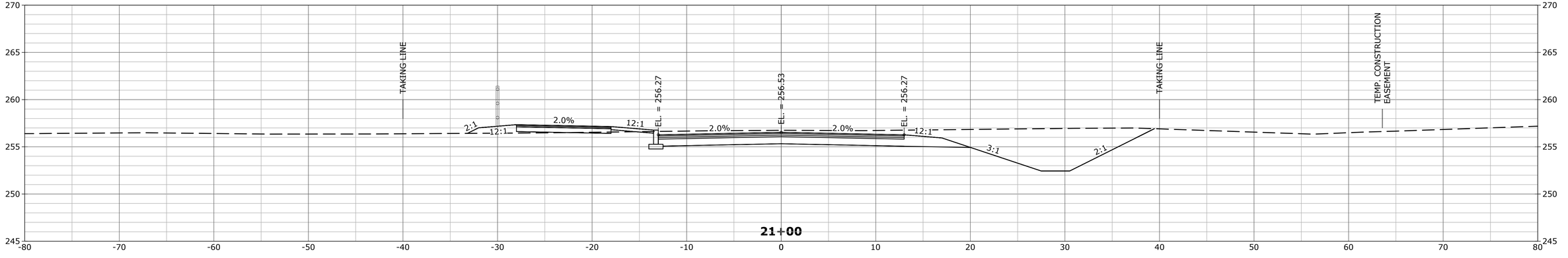

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
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VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-08

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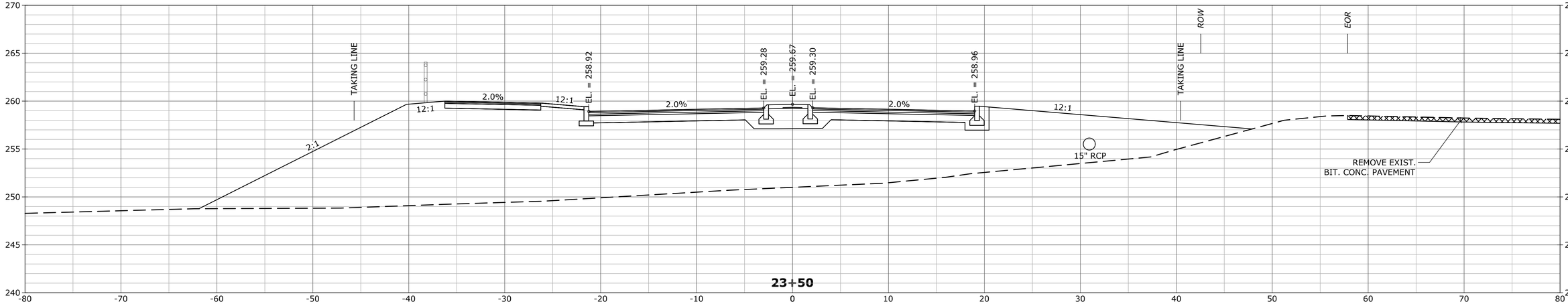

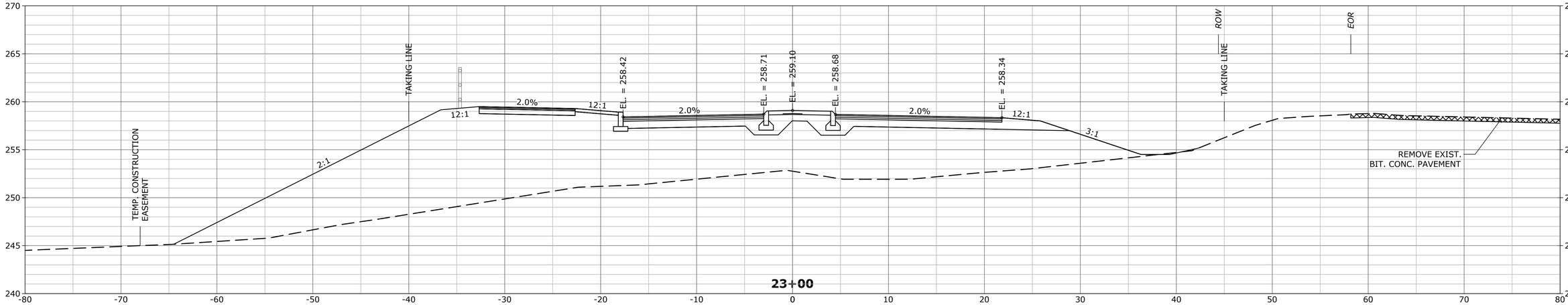

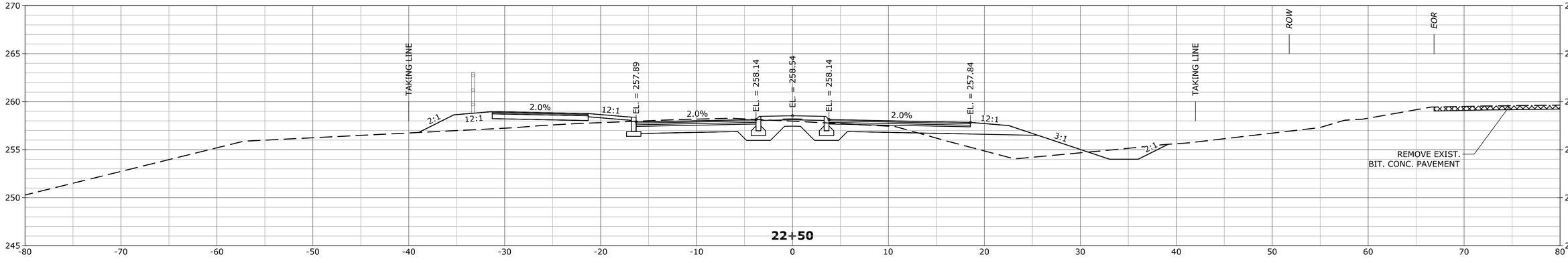

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LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

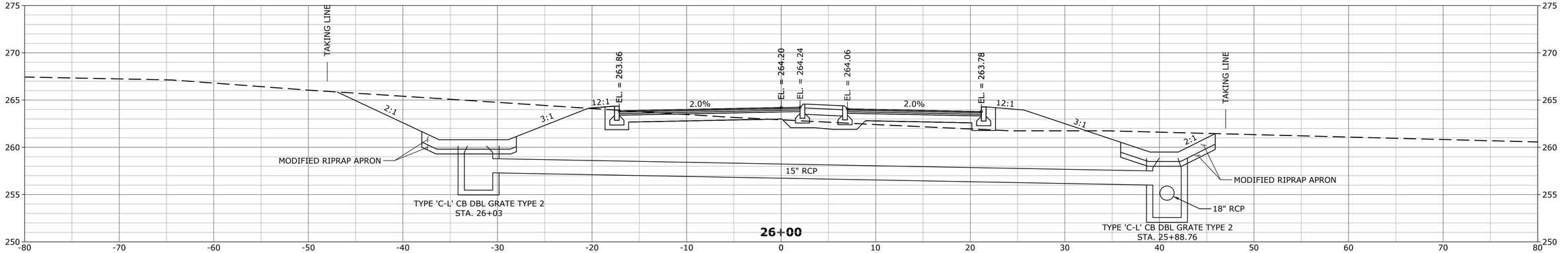
ROADWAY CROSS SECTIONS OLD FARMS ROAD (RE-ALIGNED)

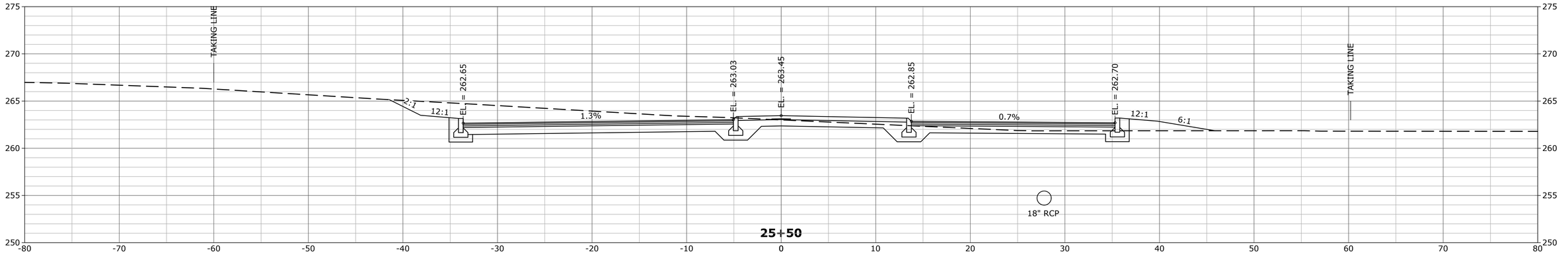
REALIGNMENT OF OLD FARMS ROAD

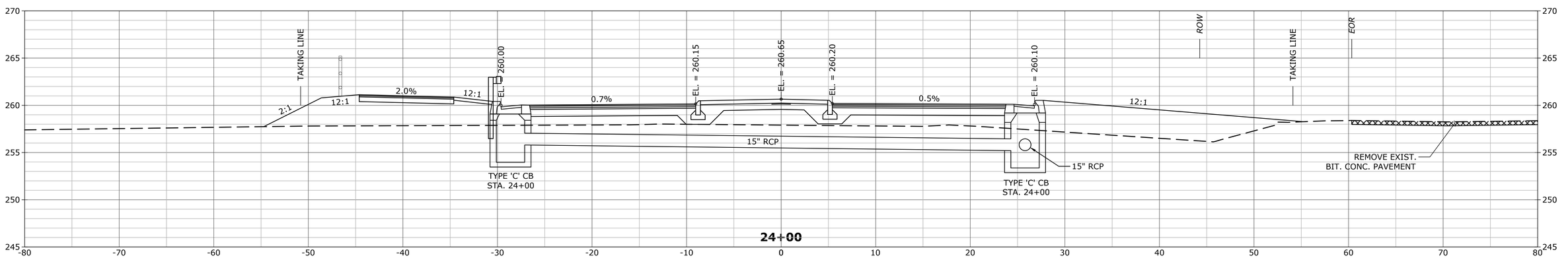
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-09







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LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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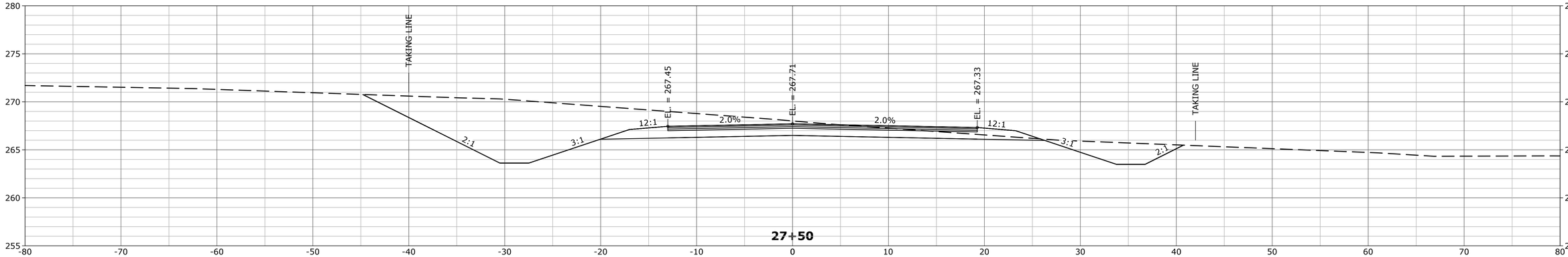
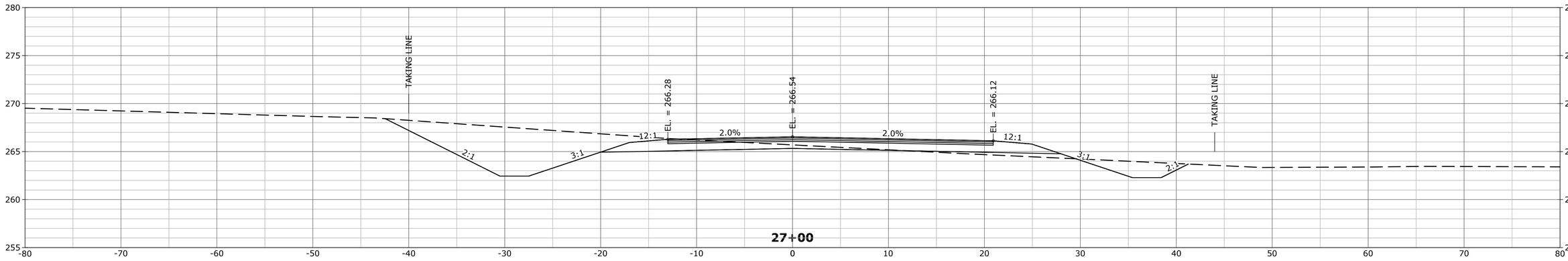
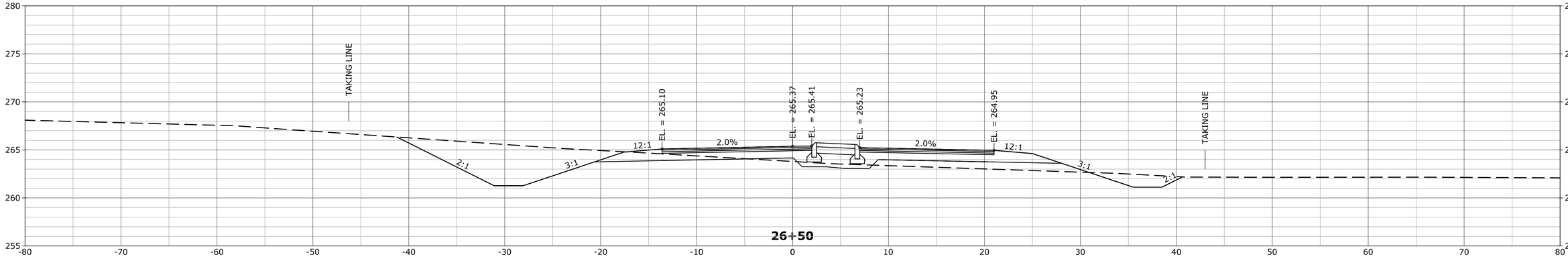
TOWN OF AVON
ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)
REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-10







No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'

DATUM:
HORZ.: NAD 83
VERT.: NAVD 88

5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-11

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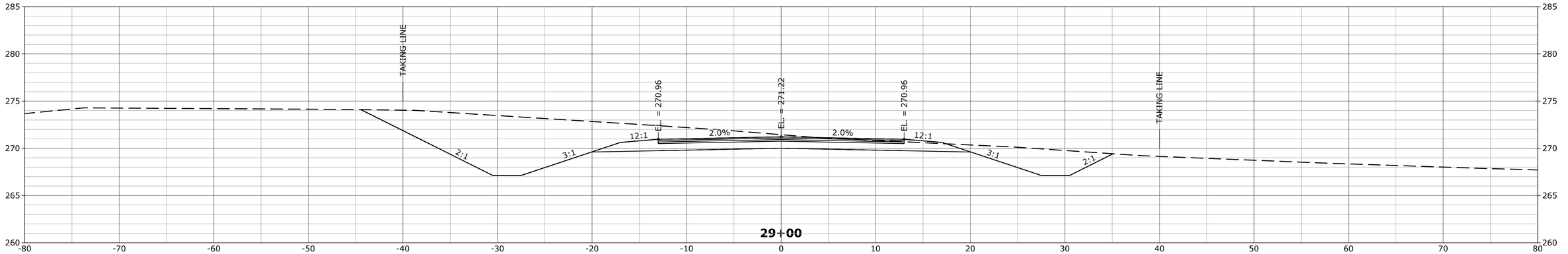
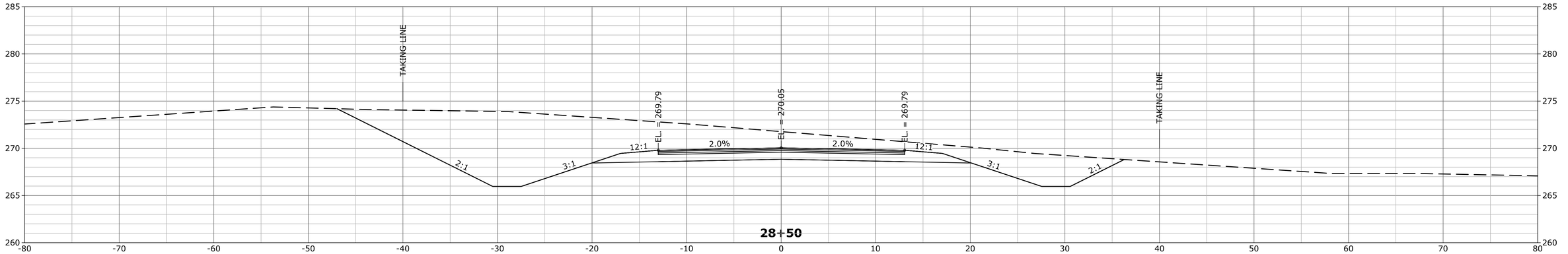
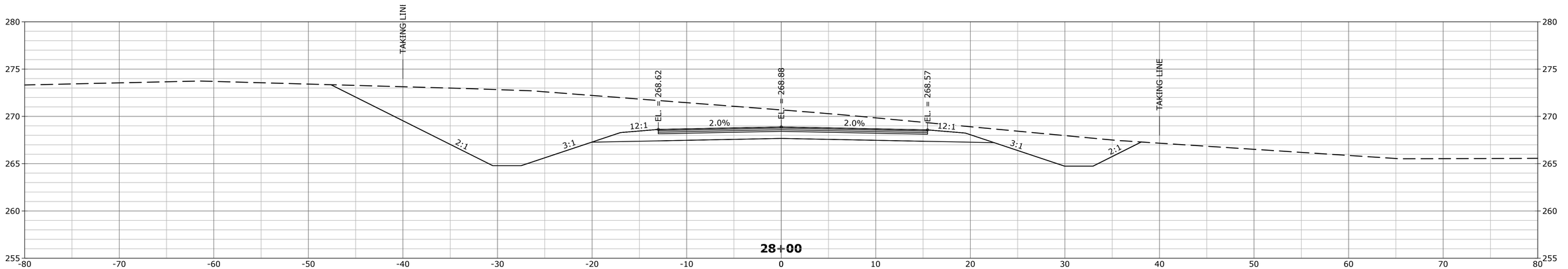
MS VIEW:







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LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

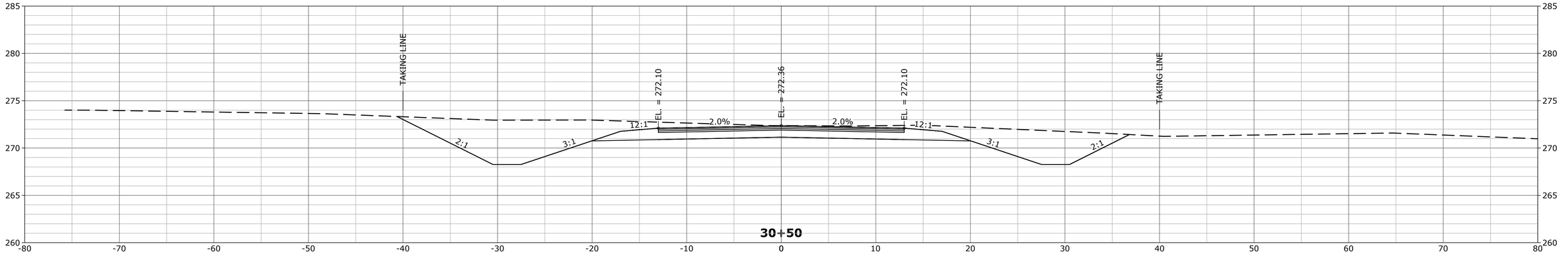
ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

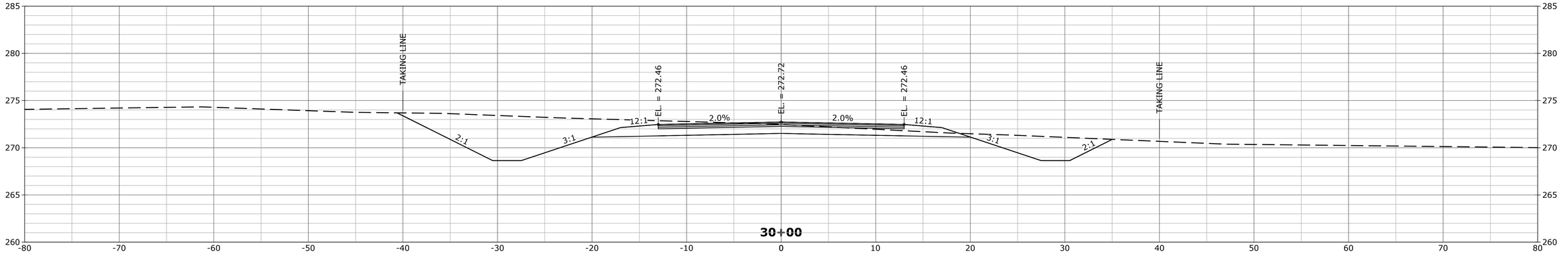
REALIGNMENT OF OLD FARMS ROAD

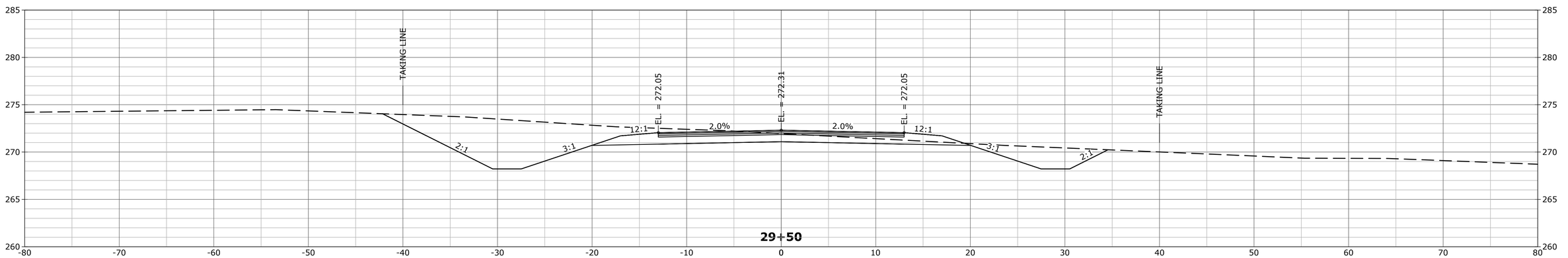
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-12







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LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

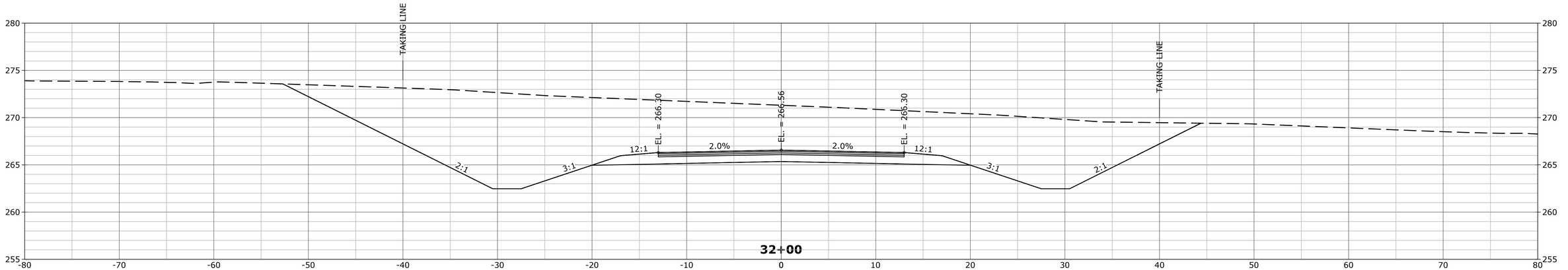
ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

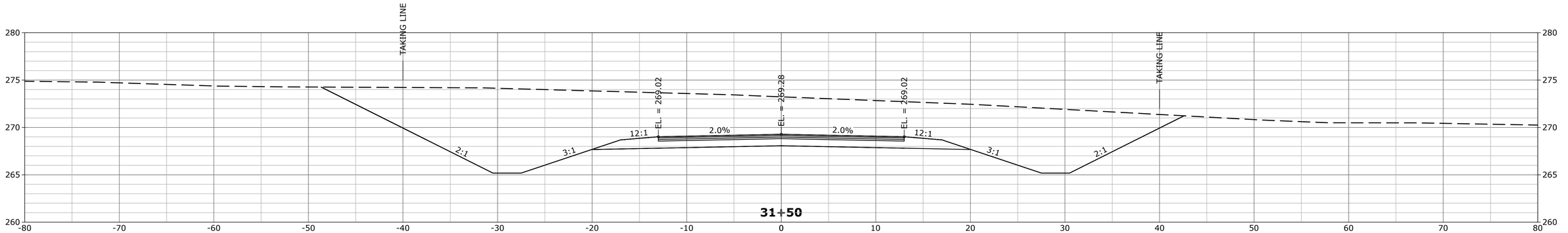
REALIGNMENT OF OLD FARMS ROAD

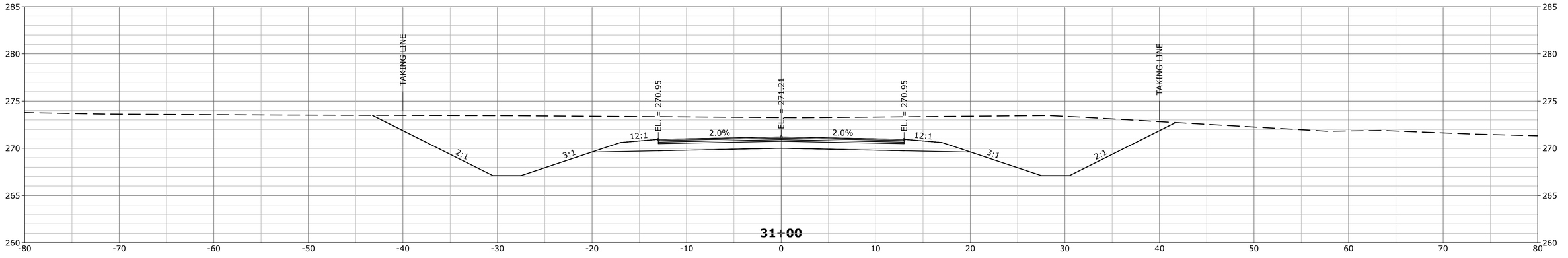
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-13







No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-14

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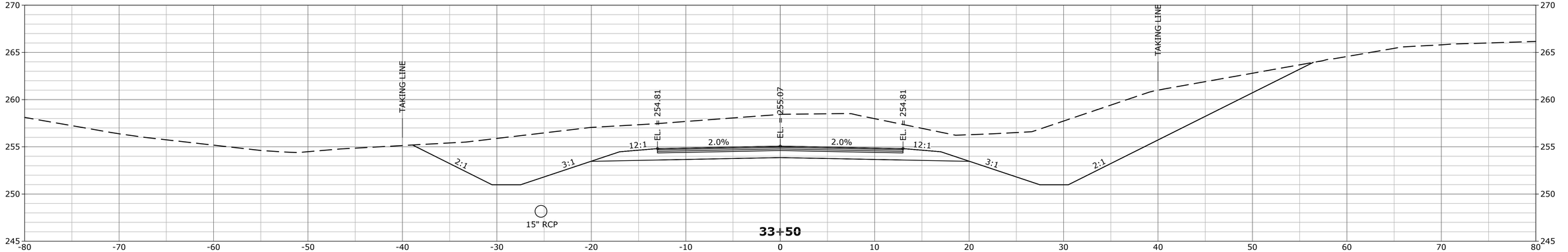
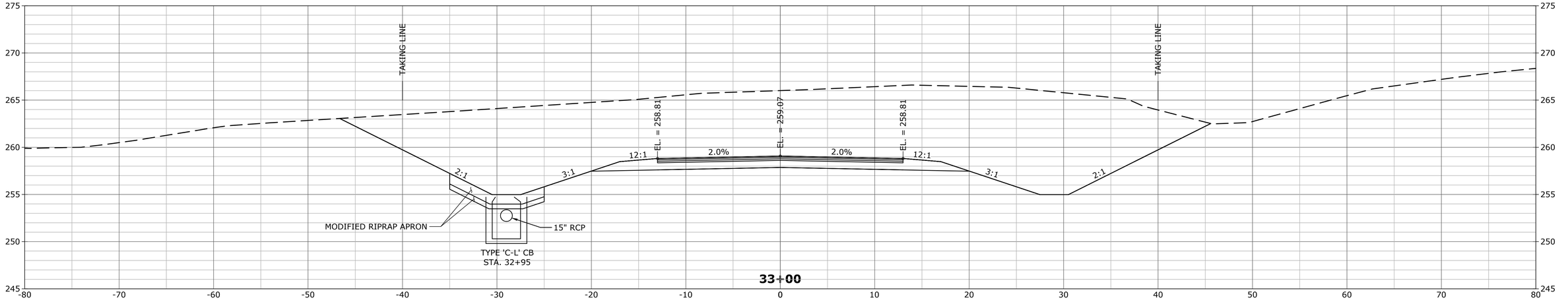
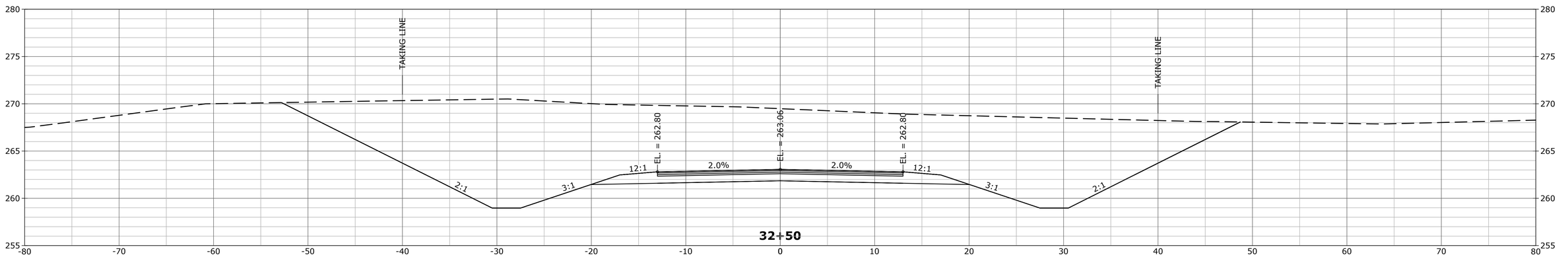
MS VIEW:







No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-15

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-15 Plotted: 2023-03-01 11:31 AM Saved: 2023-03-01 11:30 AM User: SBearce
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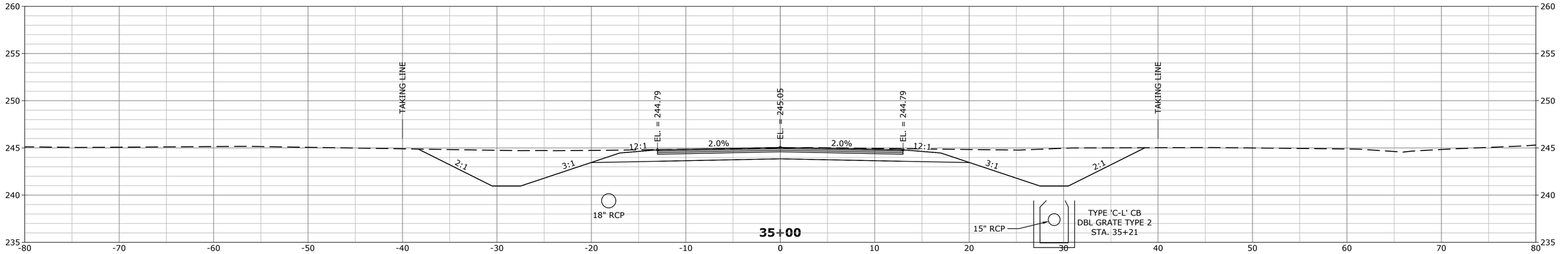

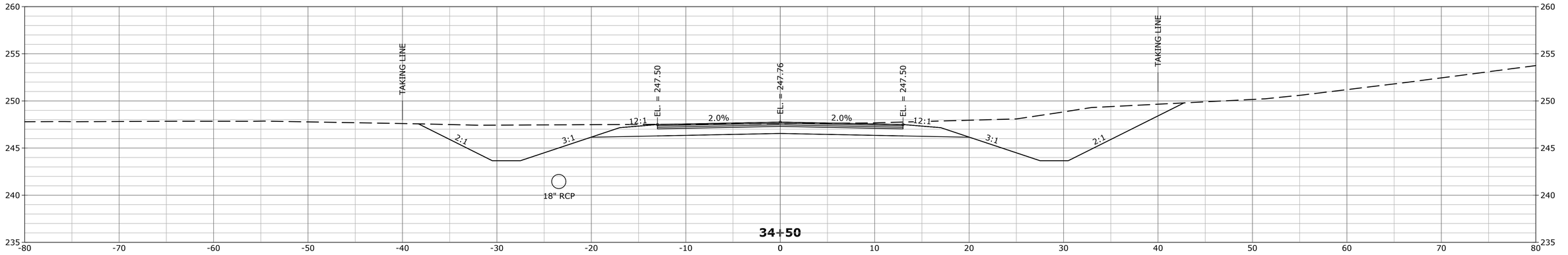

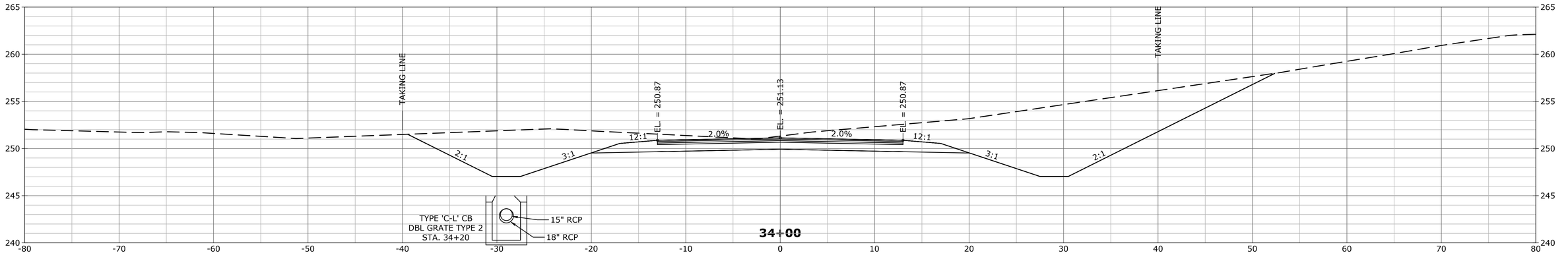

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LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

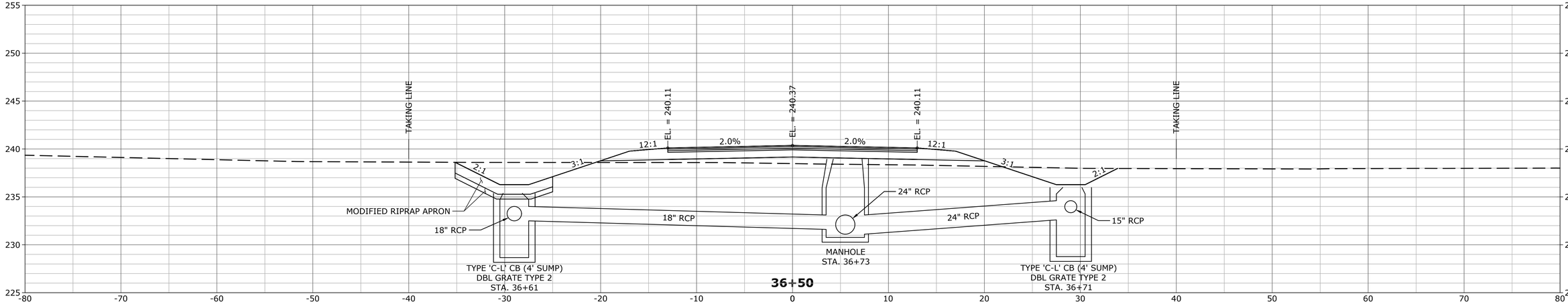
ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

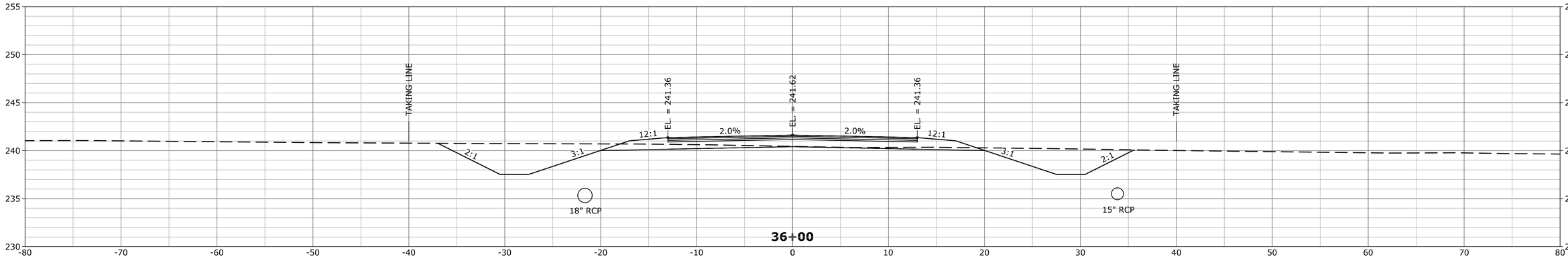
REALIGNMENT OF OLD FARMS ROAD

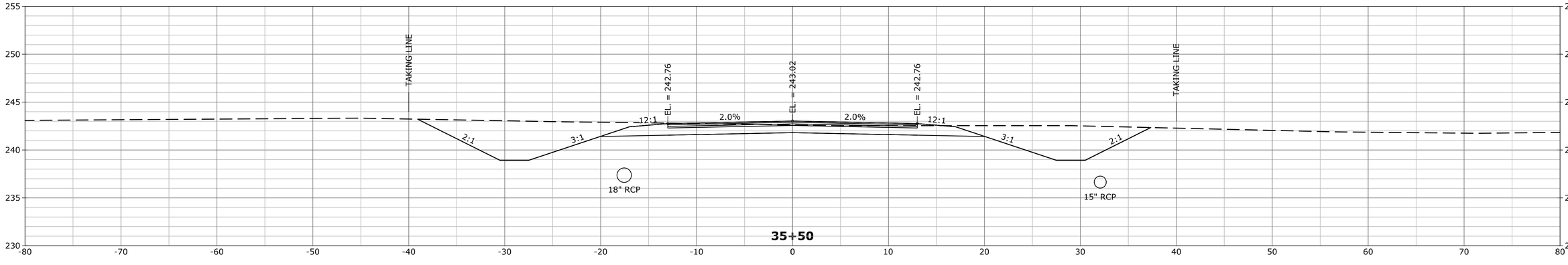
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-16







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

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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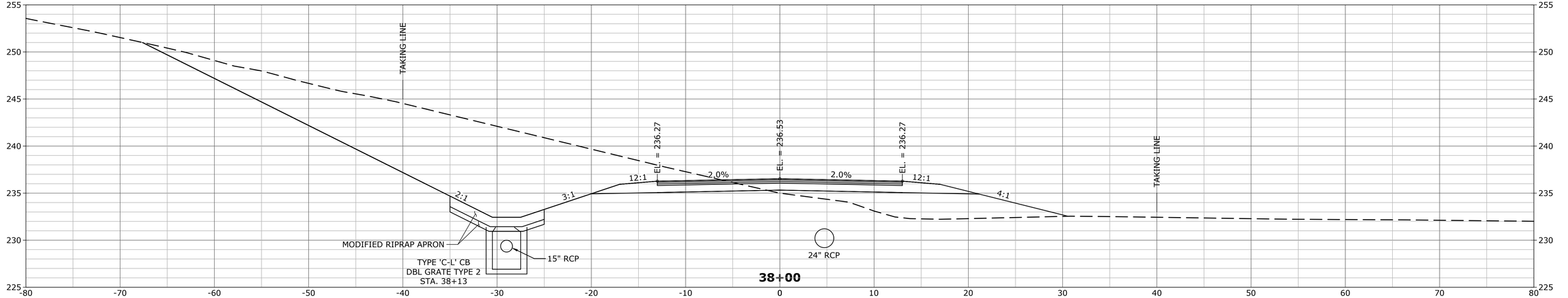
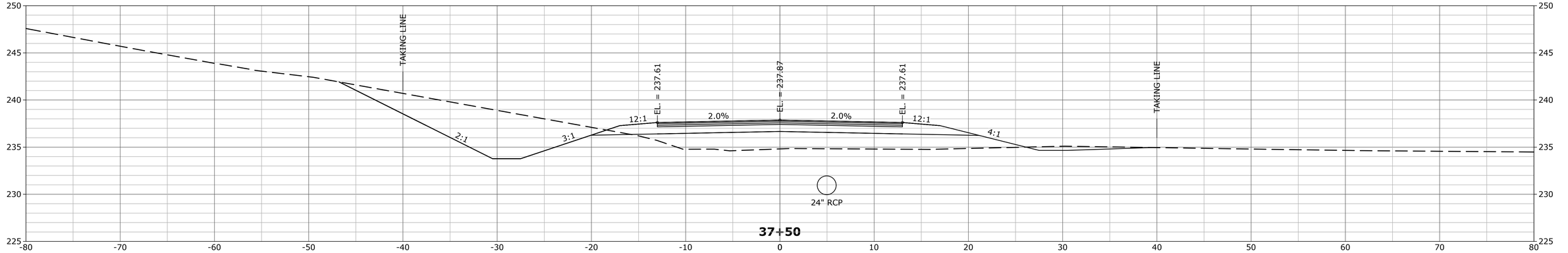
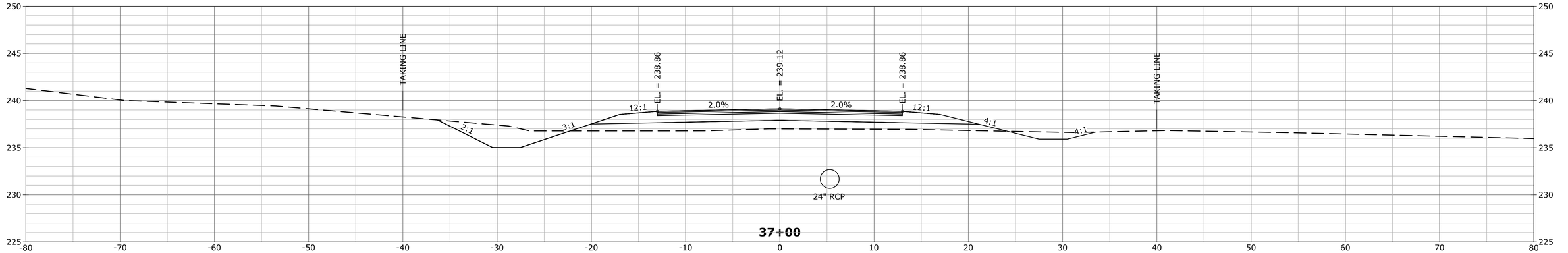
TOWN OF AVON
ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)
REALIGNMENT OF OLD FARMS ROAD
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-17







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LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

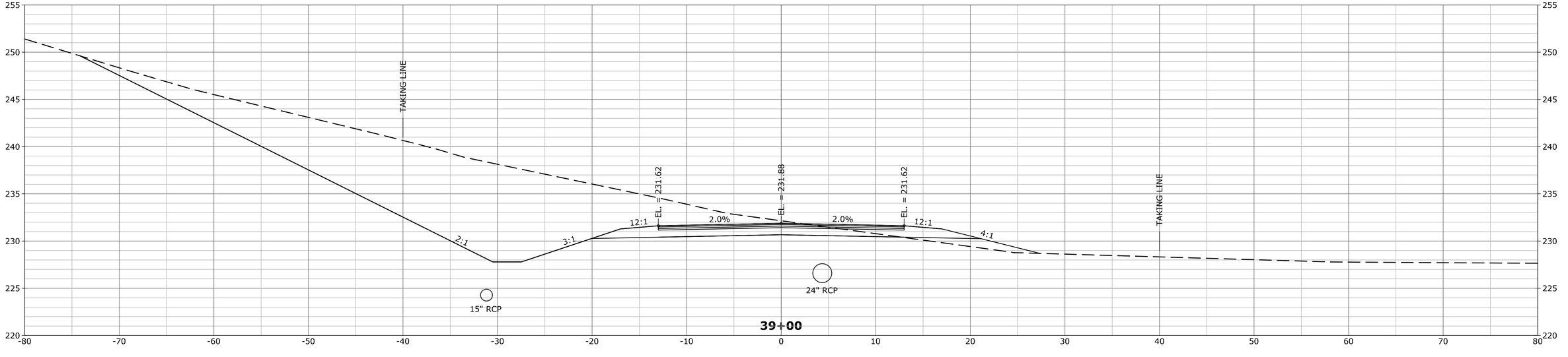
ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

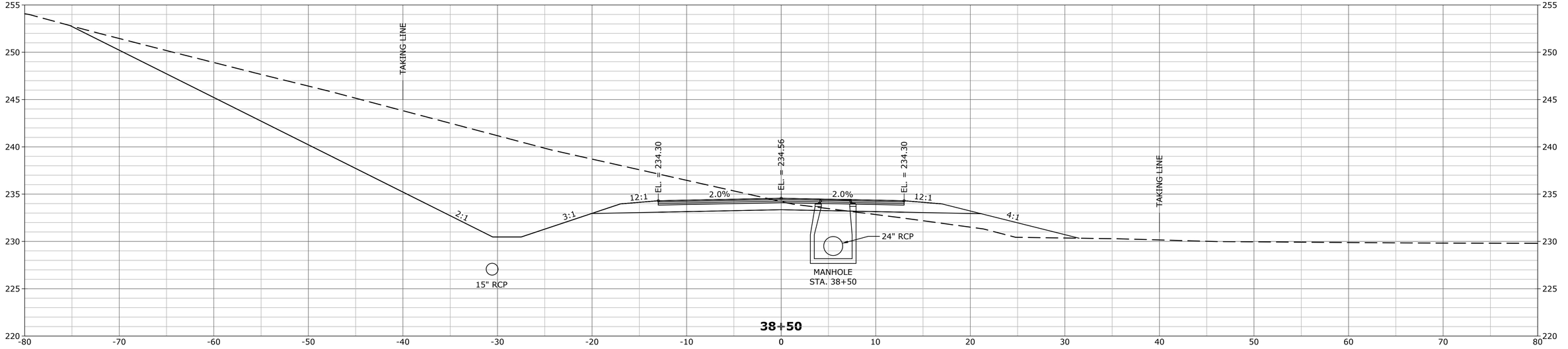
REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-18





No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-19

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-19 Plotted: 2023-03-01 11:32 AM Saved: 2023-03-01 11:30 AM User: SBearce
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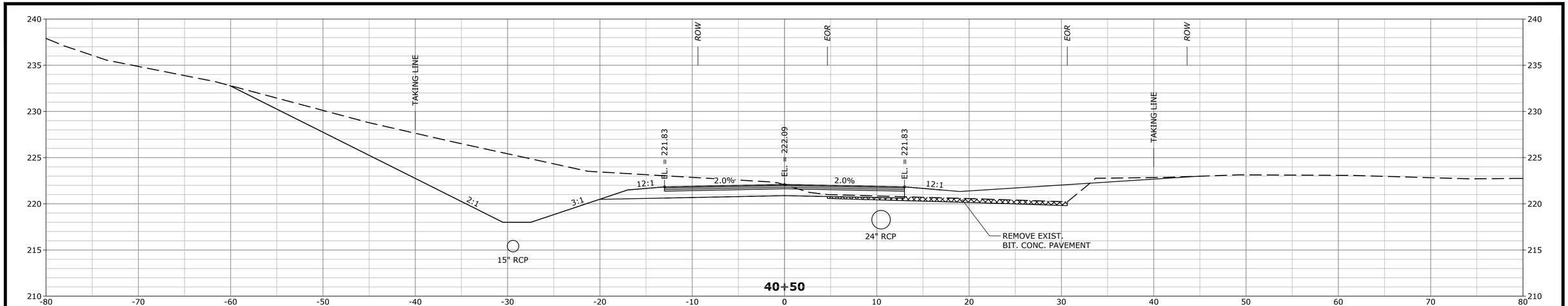

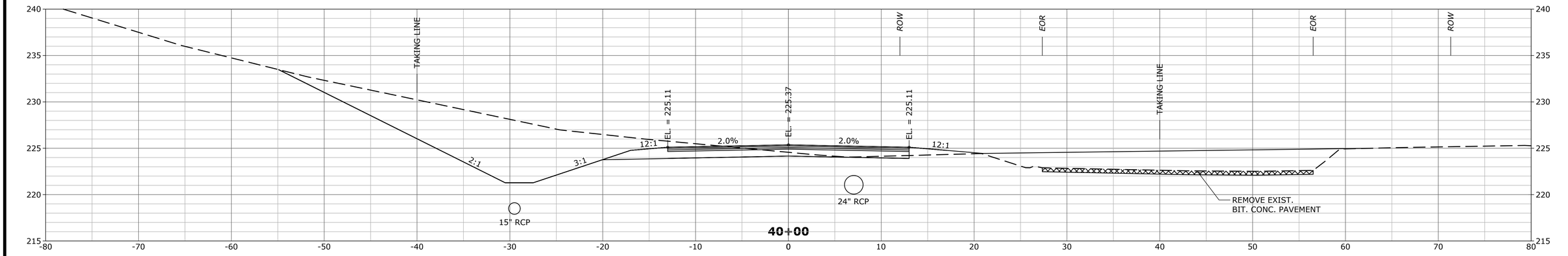

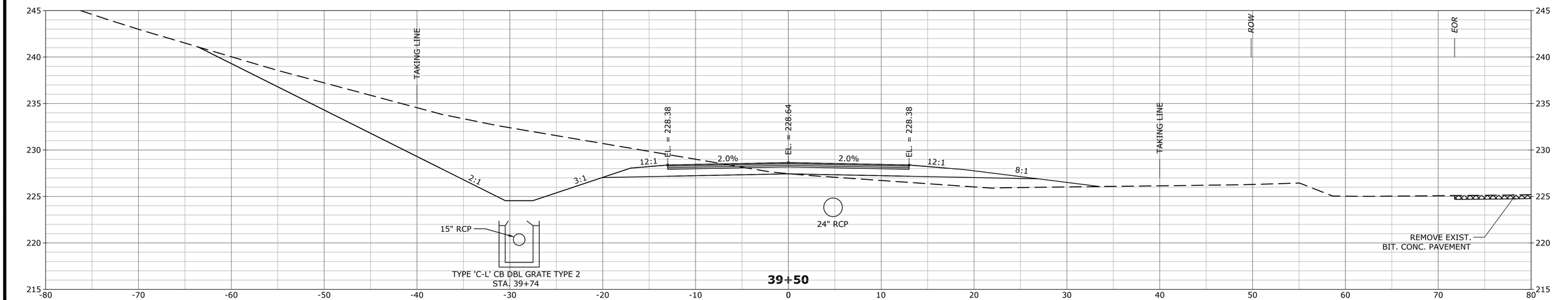

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-20

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-20 Plotted: 2023-03-01 11:32 AM Saved: 2023-03-01 11:30 AM User: SBearce
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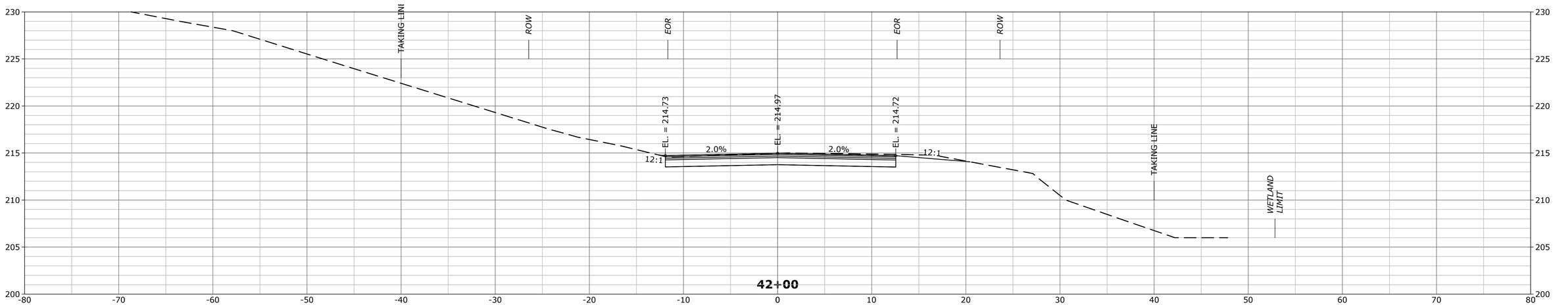

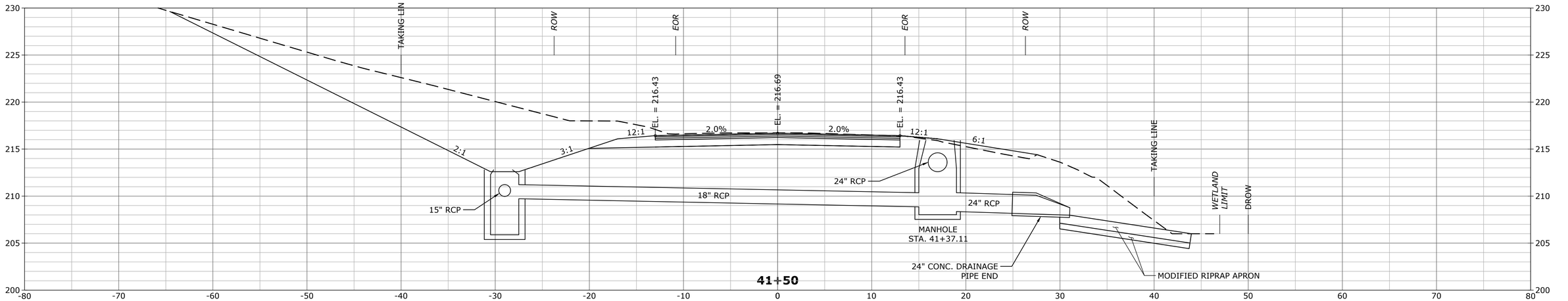

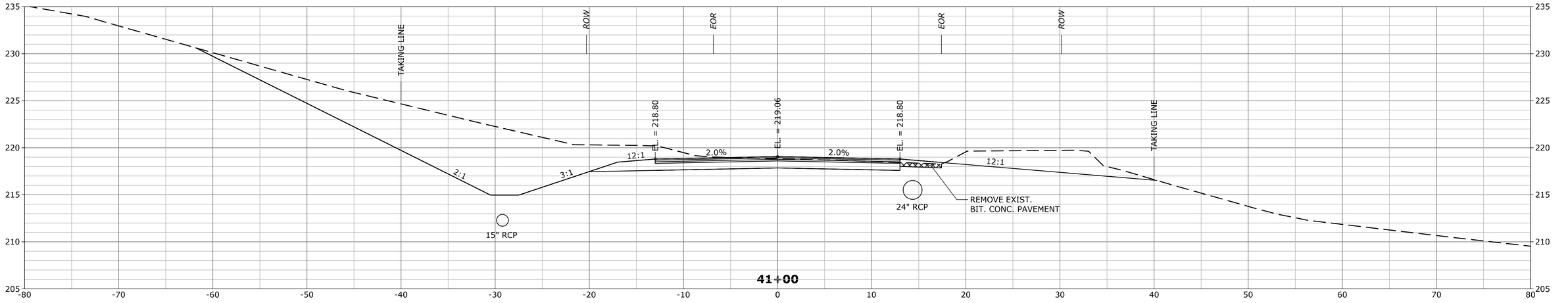

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS OLD FARMS ROAD (RE-ALIGNED)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-21

File: J:\DWG\P20160663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-21 Plotted: 2023-03-01 11:32 AM Saved: 2023-03-01 11:30 AM User: SBearce
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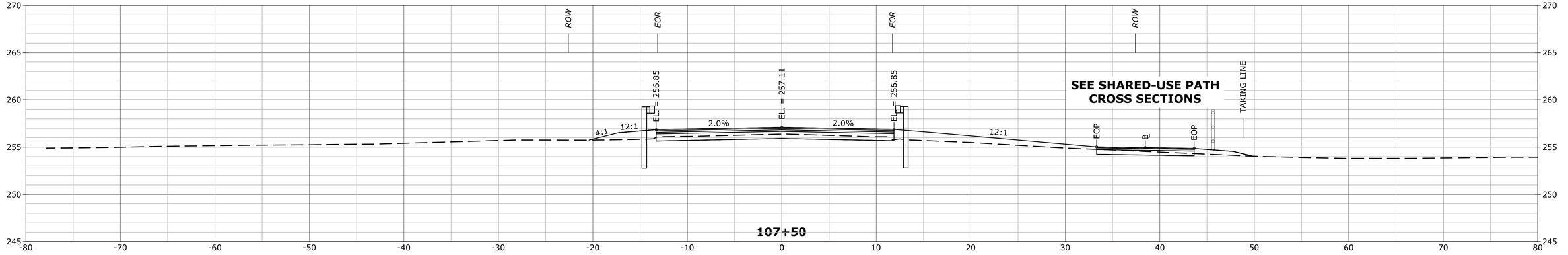

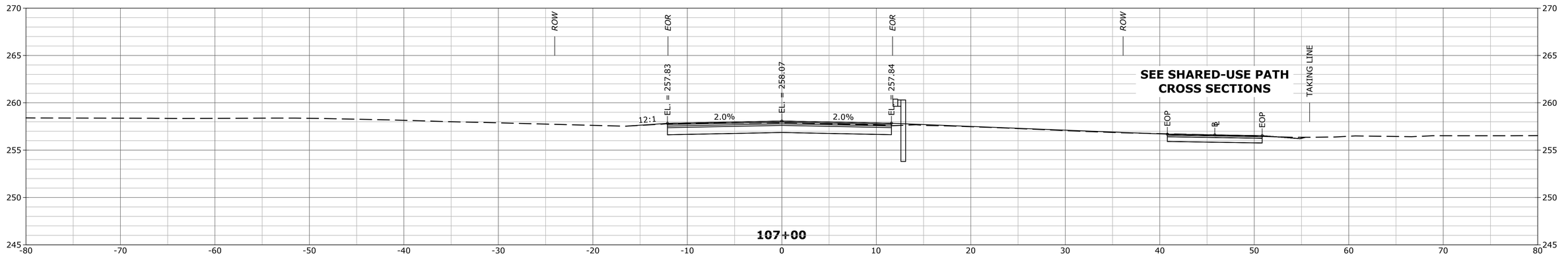

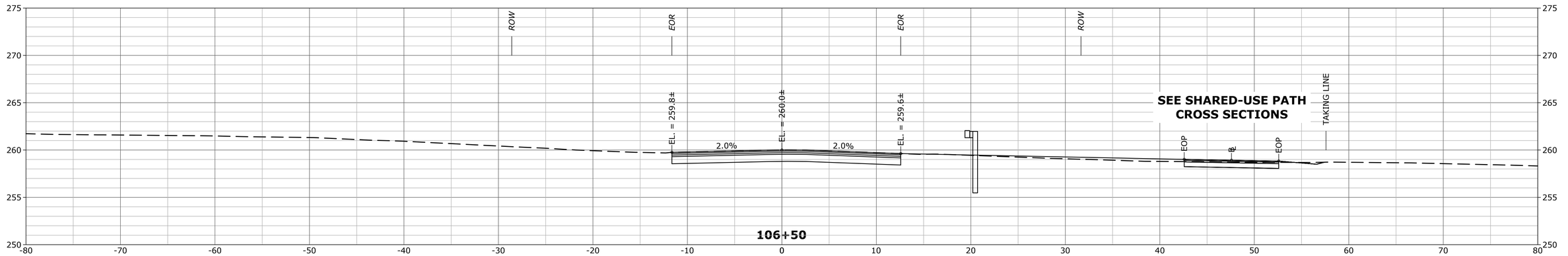

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PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

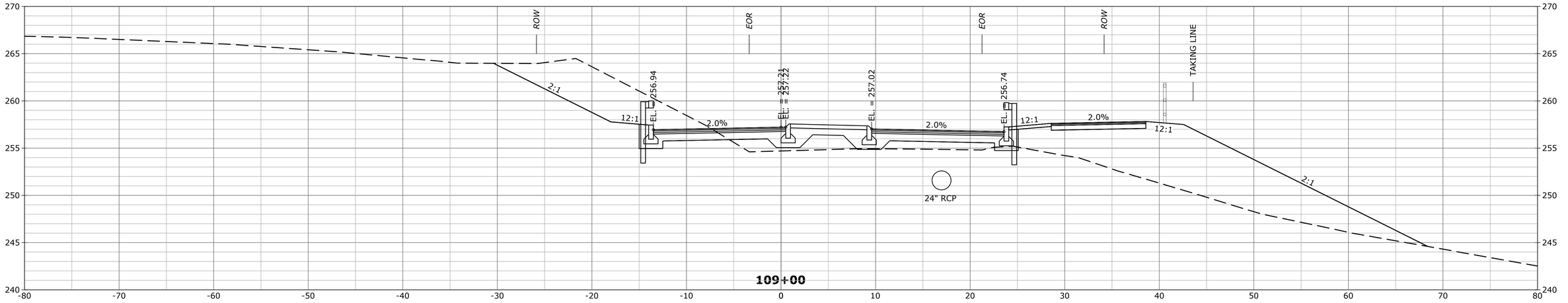
ROADWAY CROSS SECTIONS
SCOVILLE ROAD

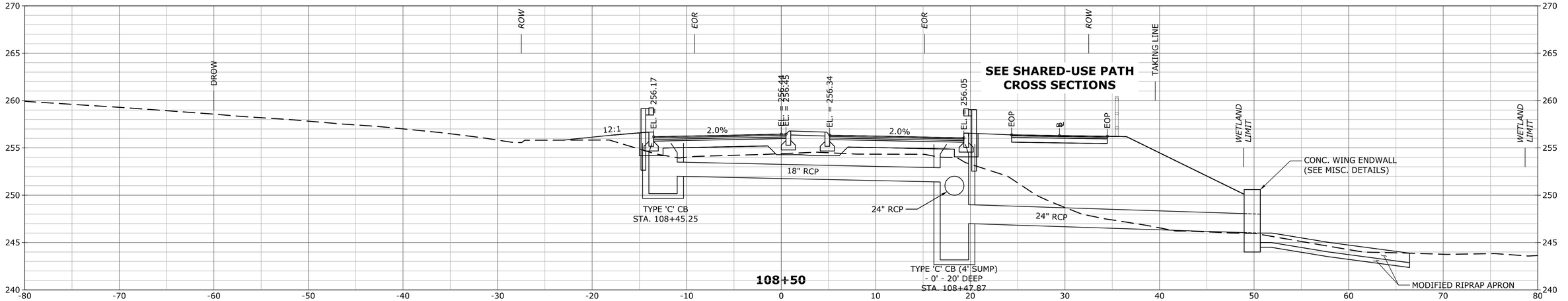
REALIGNMENT OF OLD FARMS ROAD

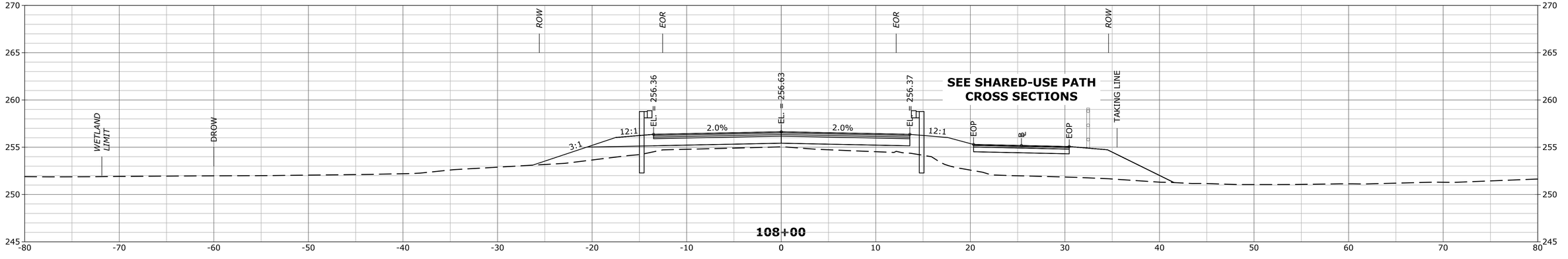
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-22







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LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

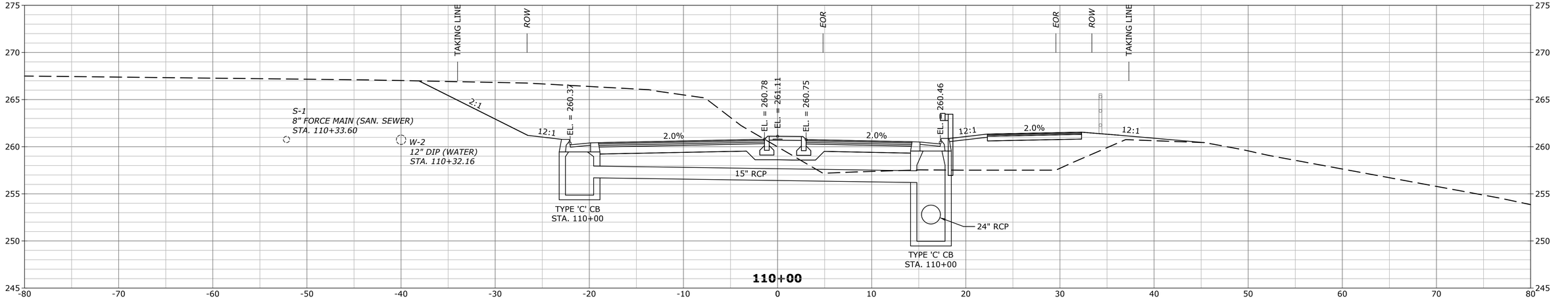
ROADWAY CROSS SECTIONS
SCOVILLE ROAD

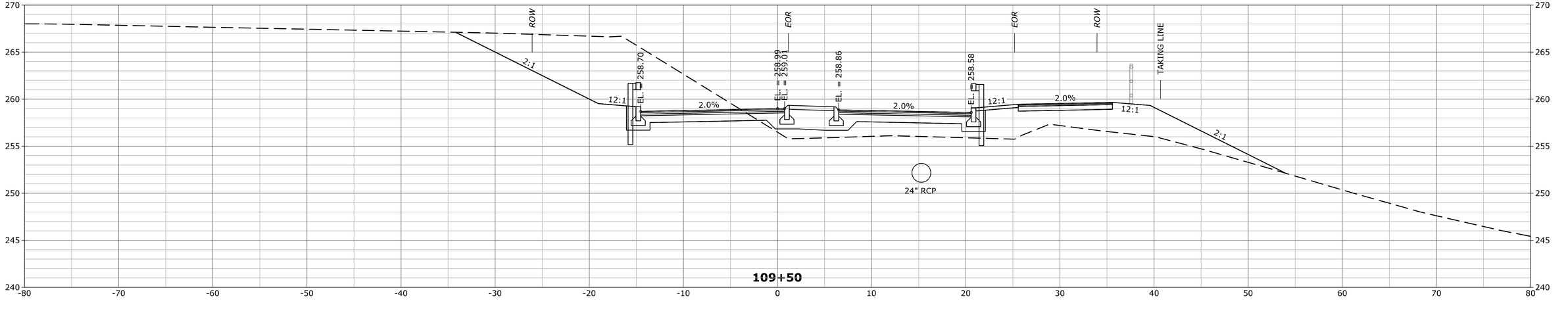
REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-23





No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
SCOVILLE ROAD
REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-24

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-24 Plotted: 2023-03-01 11:32 AM Saved: 2023-03-01 11:30 AM User: SBearce
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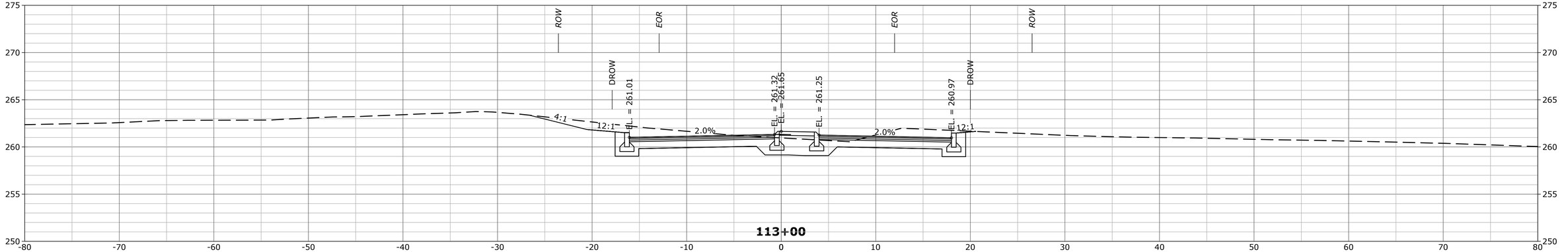

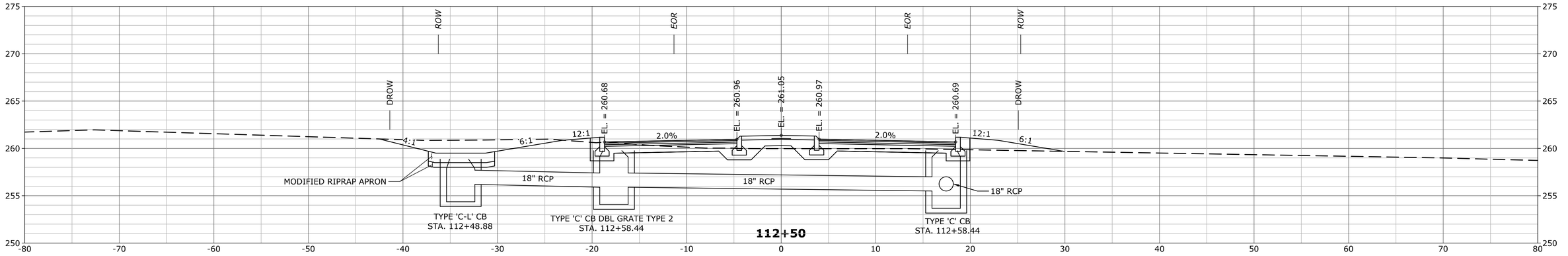

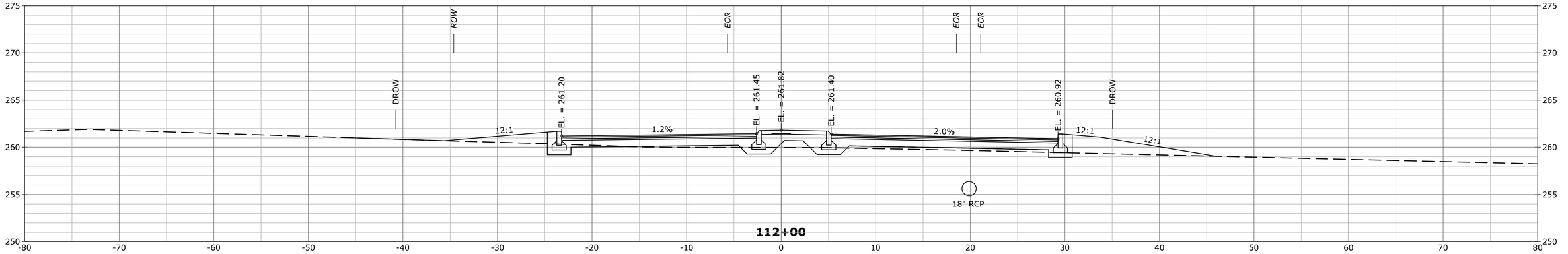

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
AOF SCHOOL (PRIVATE DRIVE NO. 1)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-25

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-25 Plotted: 2023-03-01 11:32 AM Saved: 2023-03-01 11:30 AM User: SBearce
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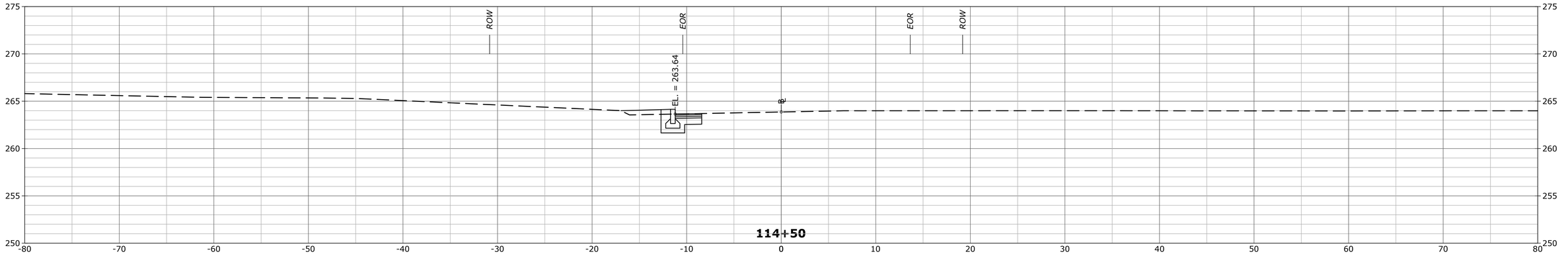

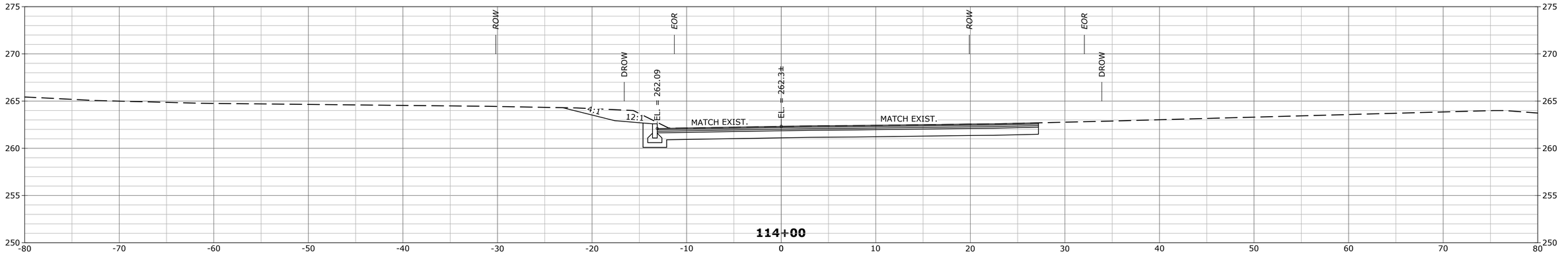

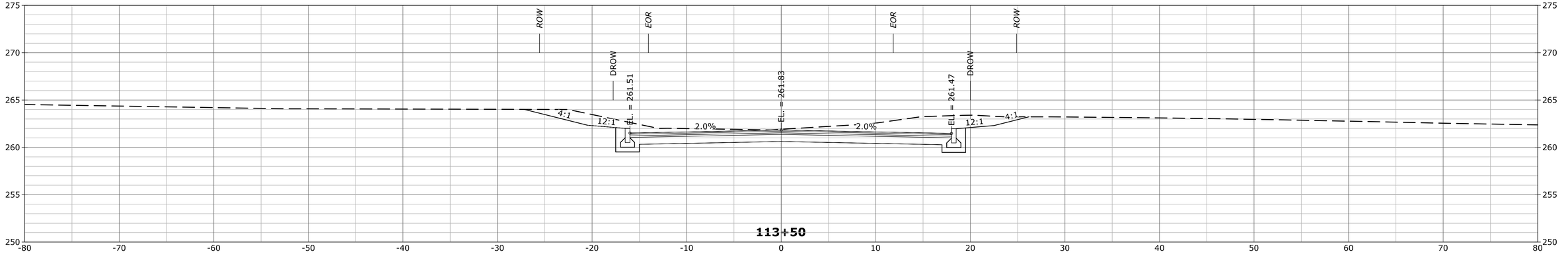

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
AOF SCHOOL (PRIVATE DRIVE NO. 1)

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-26

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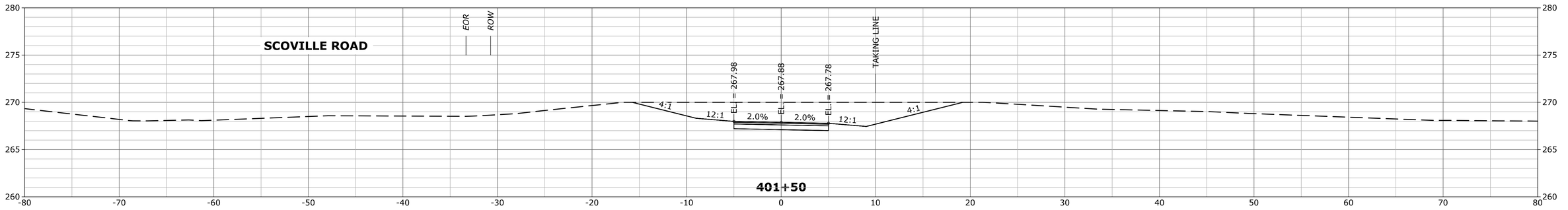

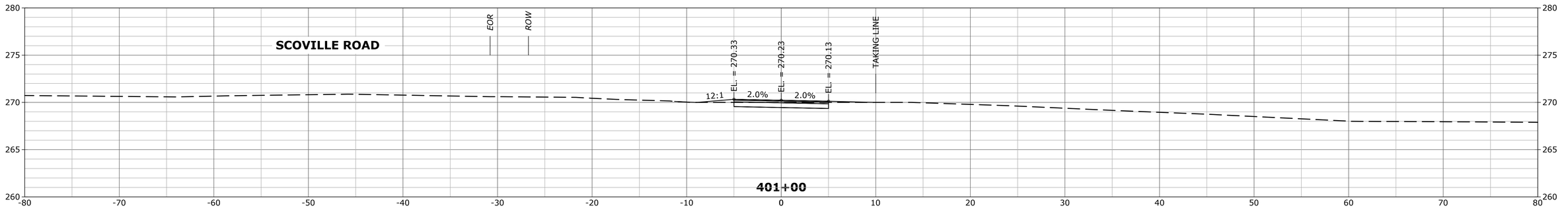

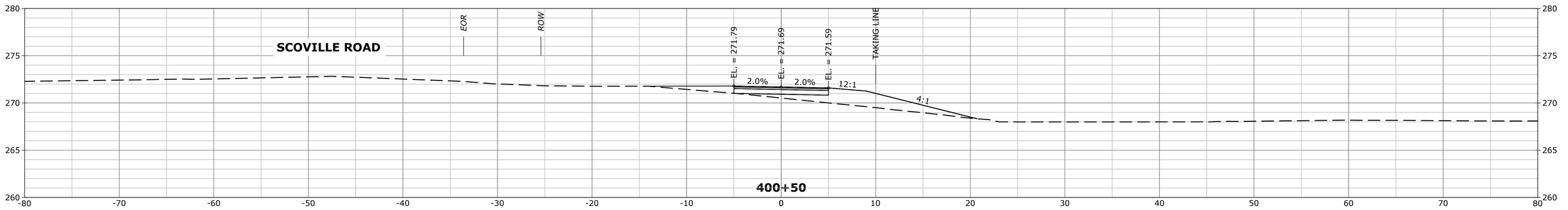

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PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: FO.STB
LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

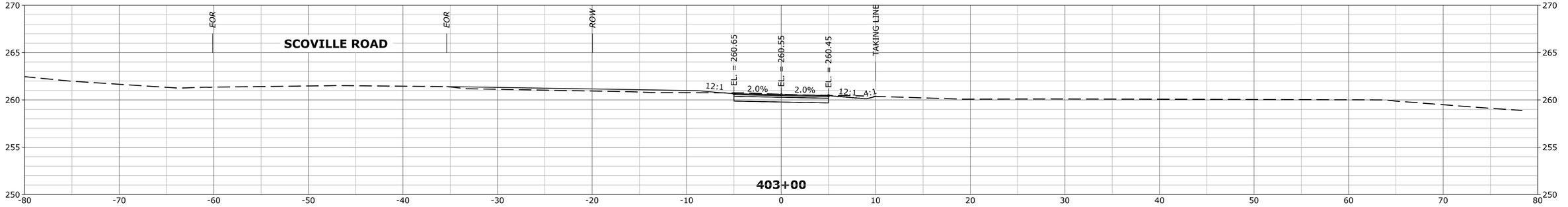
ROADWAY CROSS SECTIONS SHARED-USE PATH

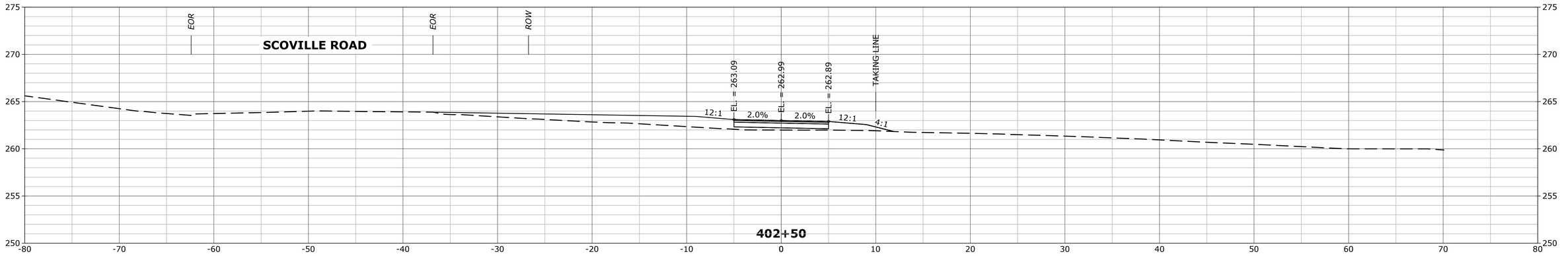
REALIGNMENT OF OLD FARMS ROAD

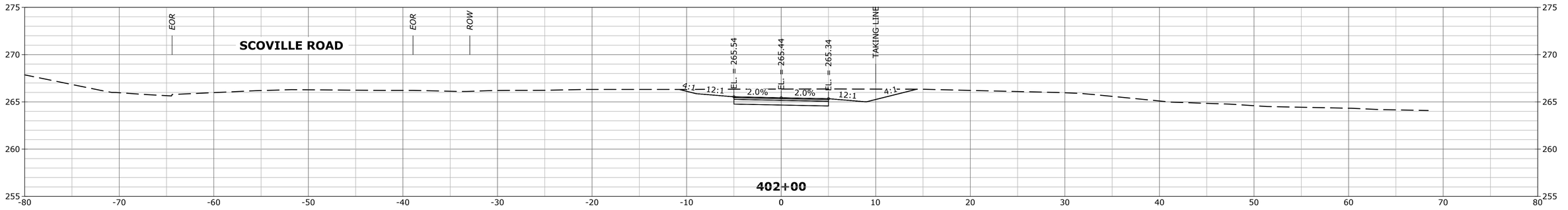
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-27







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

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

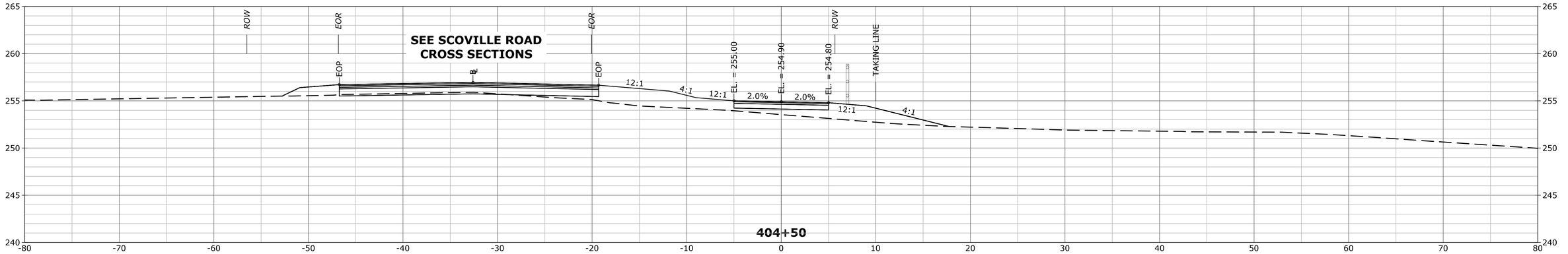
ROADWAY CROSS SECTIONS SHARED-USE PATH

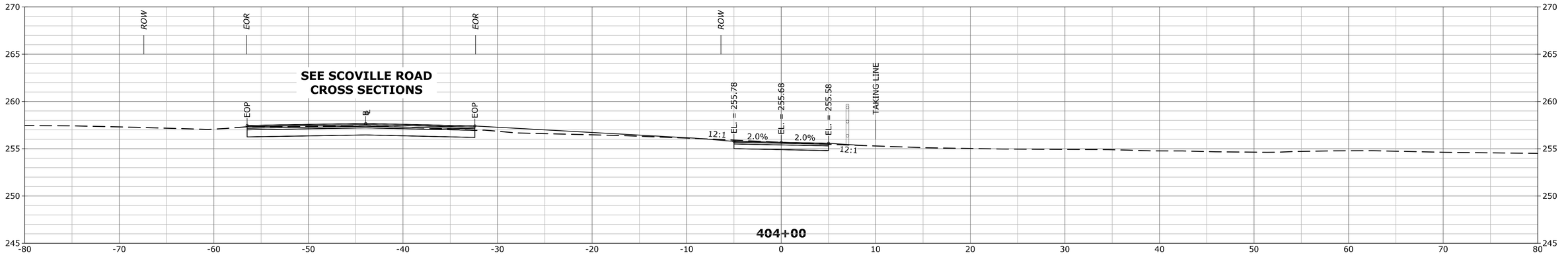
REALIGNMENT OF OLD FARMS ROAD

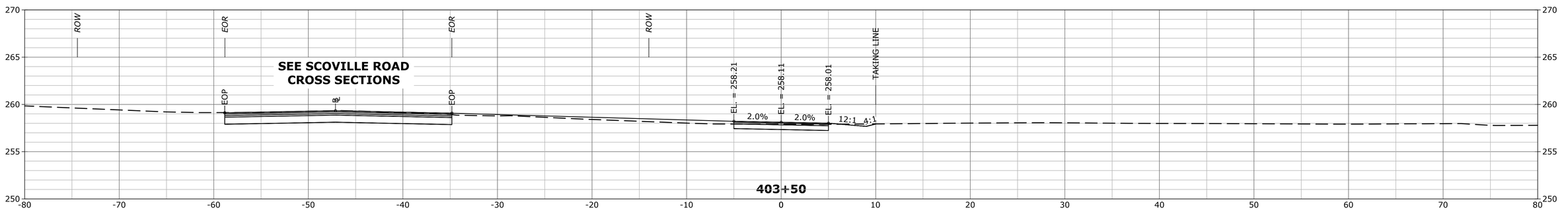
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-28







No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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SEAL

SCALE:
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DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
SHARED-USE PATH

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-29

File: J:\DWG\P2016\20160663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-29 Plotted: 2023-03-01 11:32 AM Saved: 2023-03-01 11:30 AM User: SBearce
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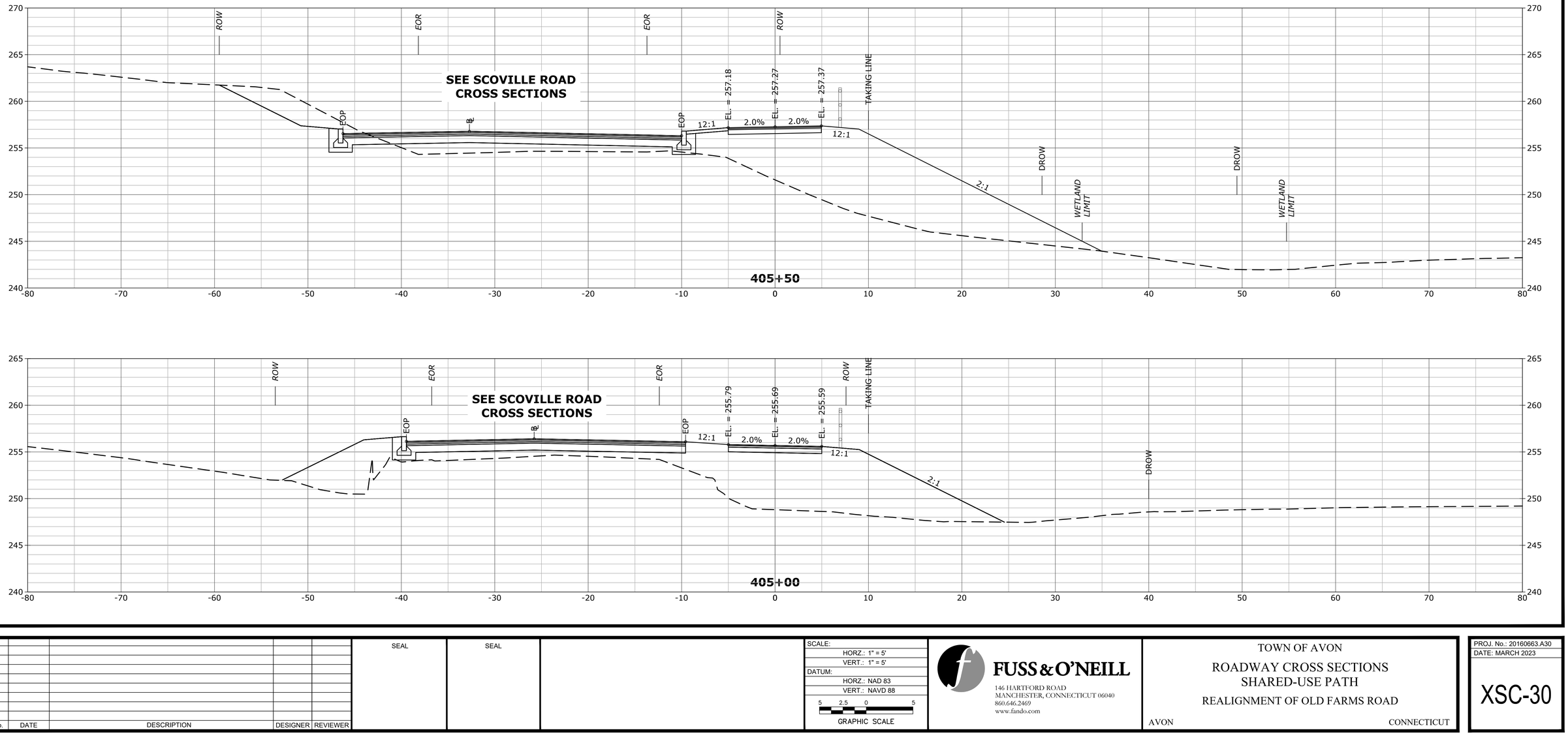

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
SHARED-USE PATH

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-30

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-30 Plotted: 2023-03-01 11:32 AM Saved: 2023-03-01 11:30 AM User: SBearce
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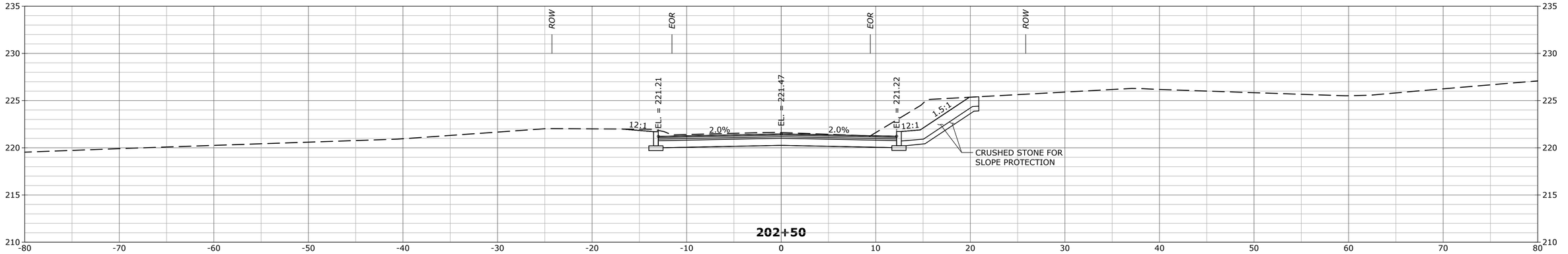

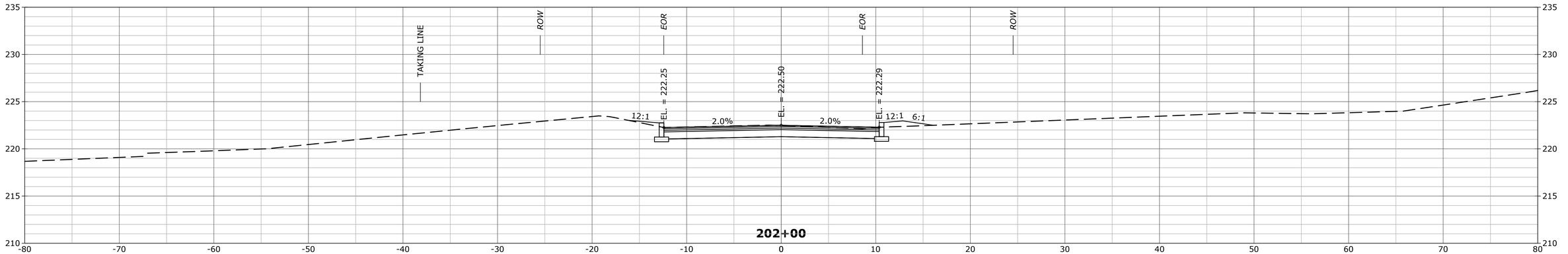

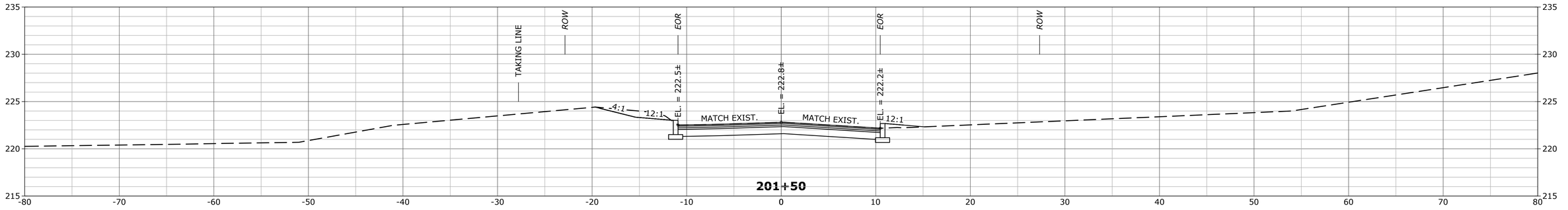

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
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DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
THOMPSON ROAD

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-31

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-31 Plotted: 2023-03-01 11:32 AM Saved: 2023-03-01 11:30 AM User: SBearce
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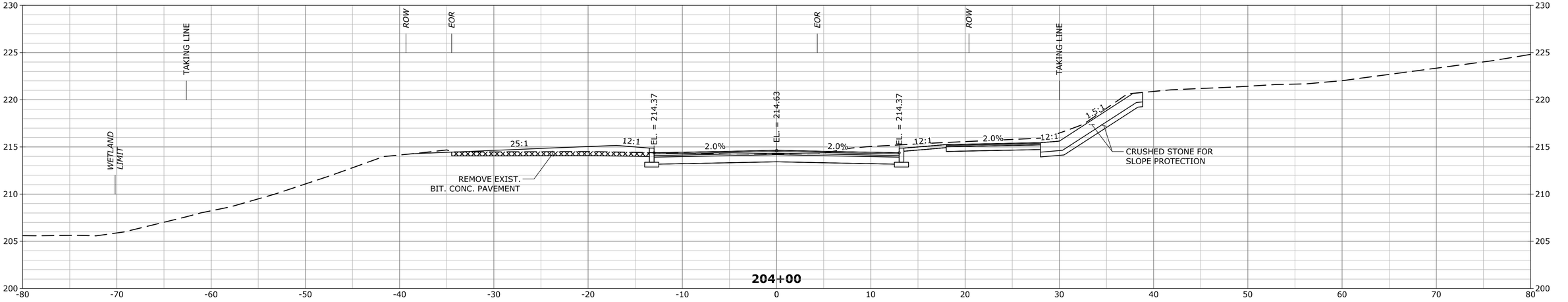

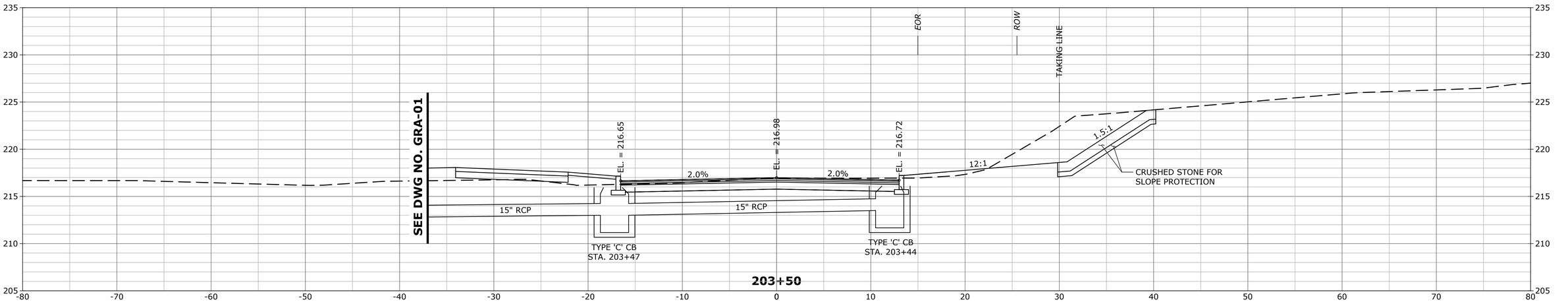

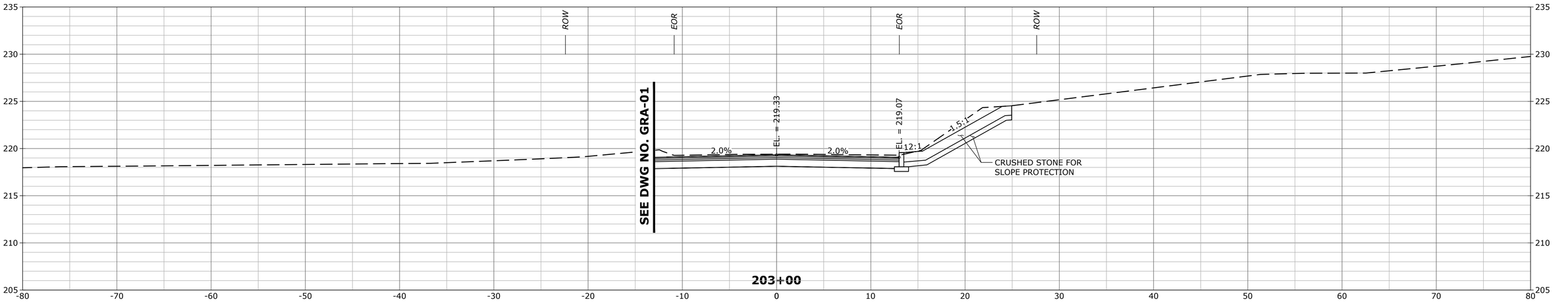

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LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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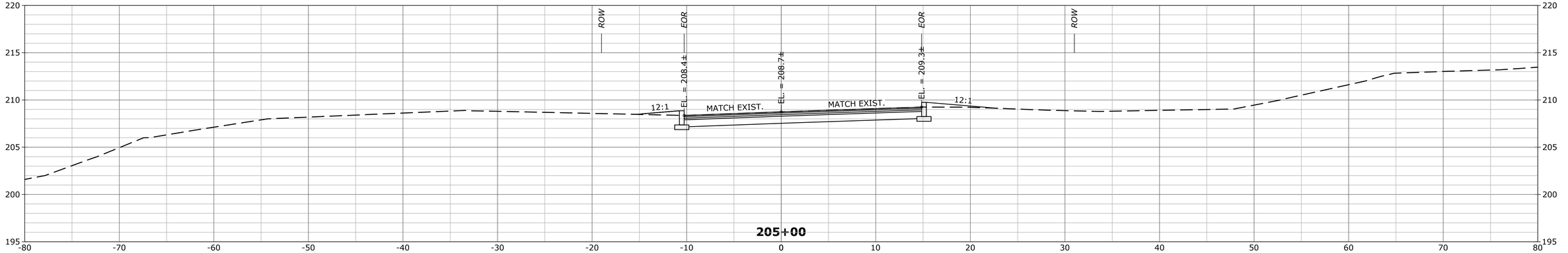
TOWN OF AVON

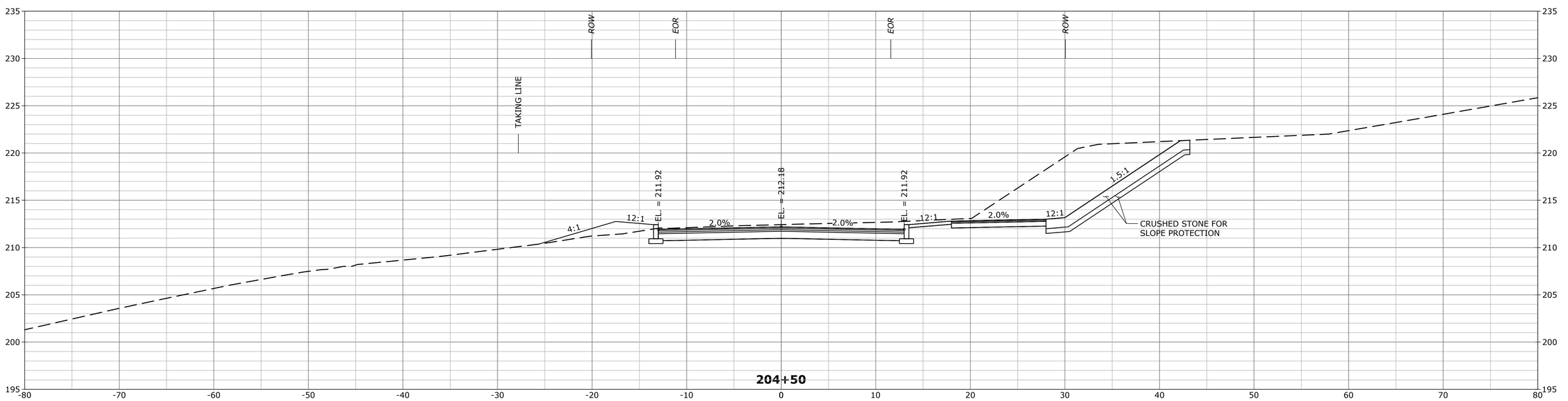
ROADWAY CROSS SECTIONS
THOMPSON ROAD
REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-32





No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
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VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

ROADWAY CROSS SECTIONS
THOMPSON ROAD
REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-33

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_XSC01.dwg Layout: XSC-33 Plotted: 2023-03-01 11:33 AM Saved: 2023-03-01 11:30 AM User: SBearce
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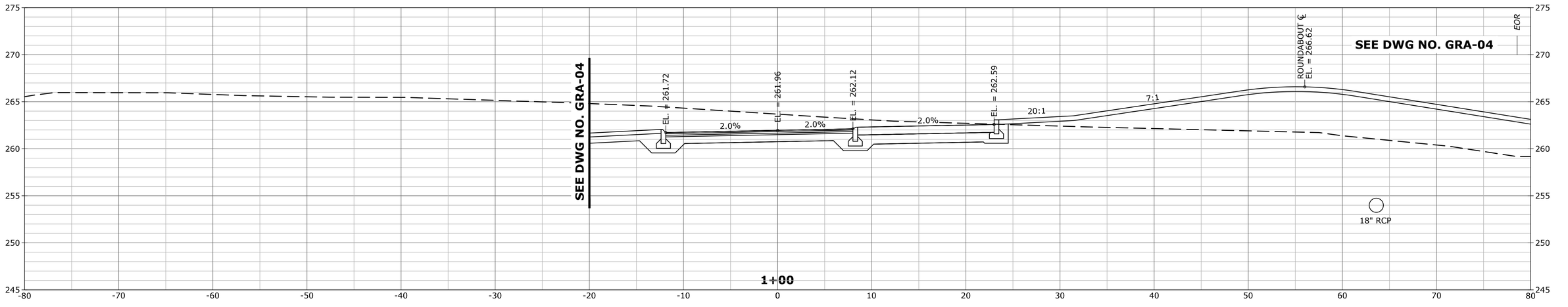

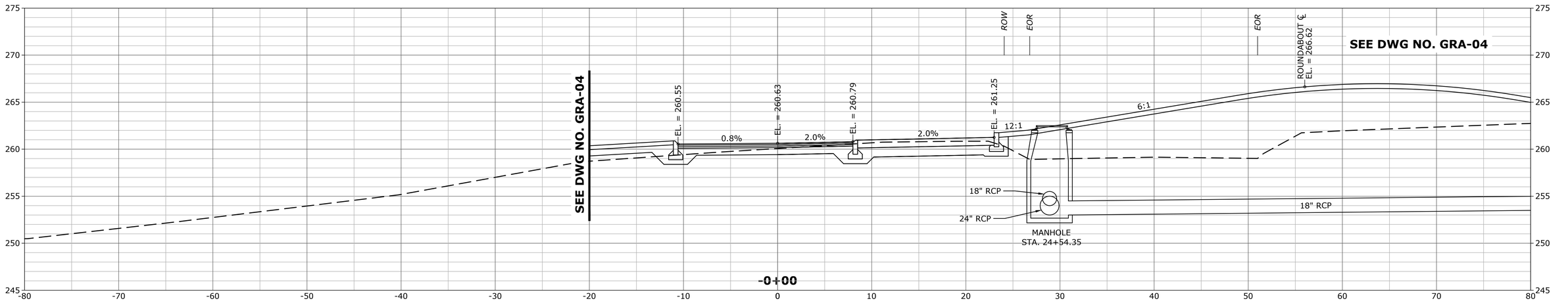

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LAYER STATE:
MS VIEW:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

SEAL

SEAL

SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
5 2.5 0 5
GRAPHIC SCALE

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TOWN OF AVON

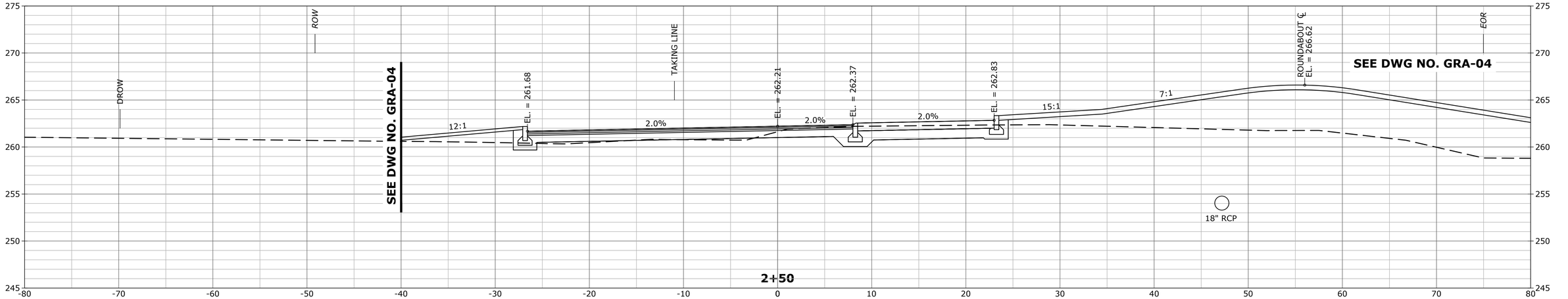
ROADWAY CROSS SECTIONS ROUNDABOUT

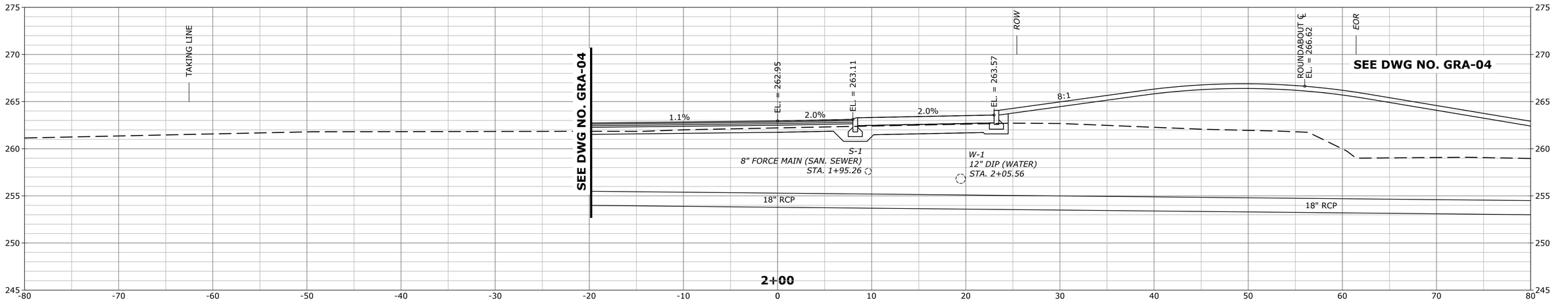
REALIGNMENT OF OLD FARMS ROAD

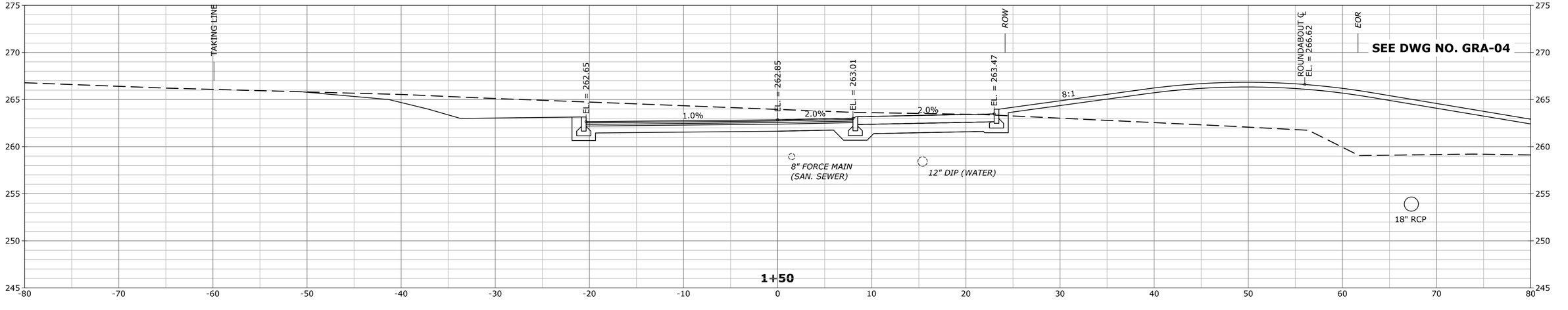
AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-34







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No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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SCALE:
HORZ.: 1" = 5'
VERT.: 1" = 5'
DATUM:
HORZ.: NAD 83
VERT.: NAVD 88
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GRAPHIC SCALE

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TOWN OF AVON

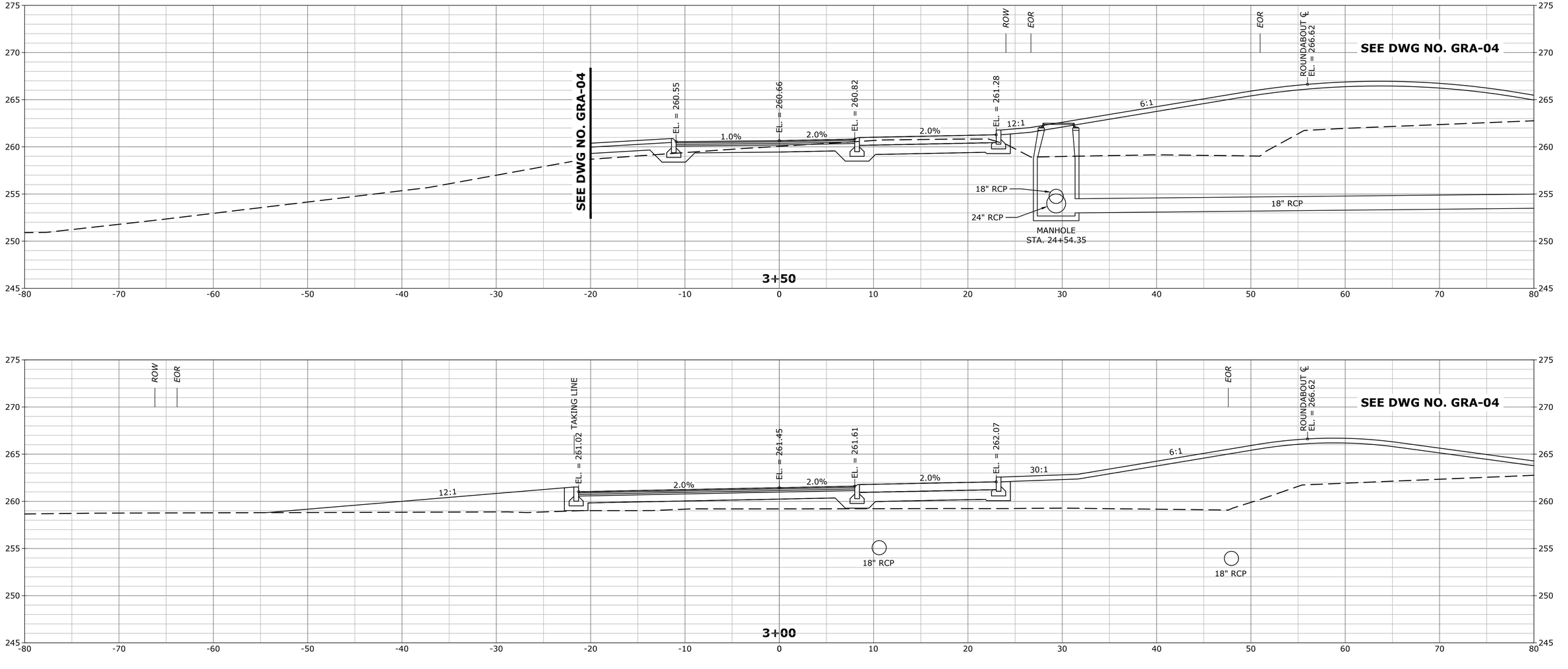
ROADWAY CROSS SECTIONS
ROUNDABOUT

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-35



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VERT.: NAVD 88
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GRAPHIC SCALE

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TOWN OF AVON

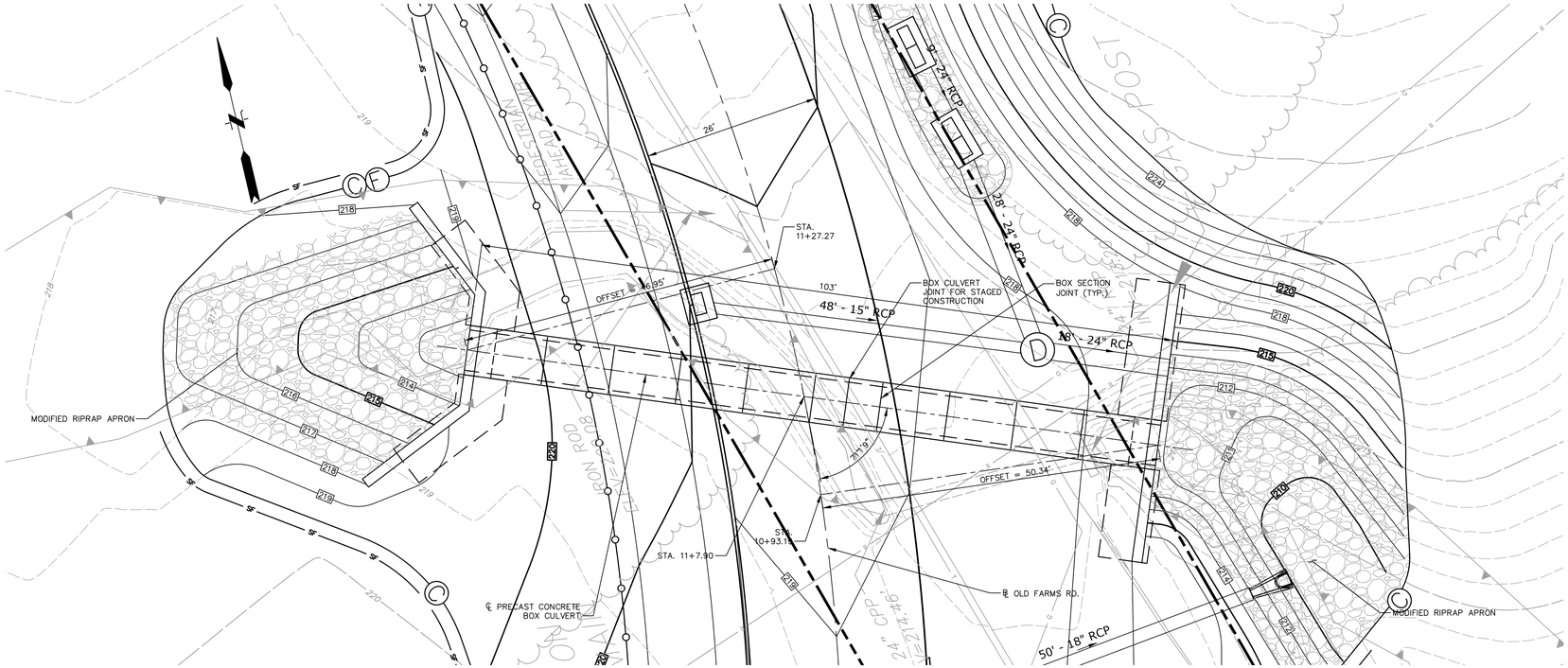
ROADWAY CROSS SECTIONS ROUNDABOUT

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

XSC-36

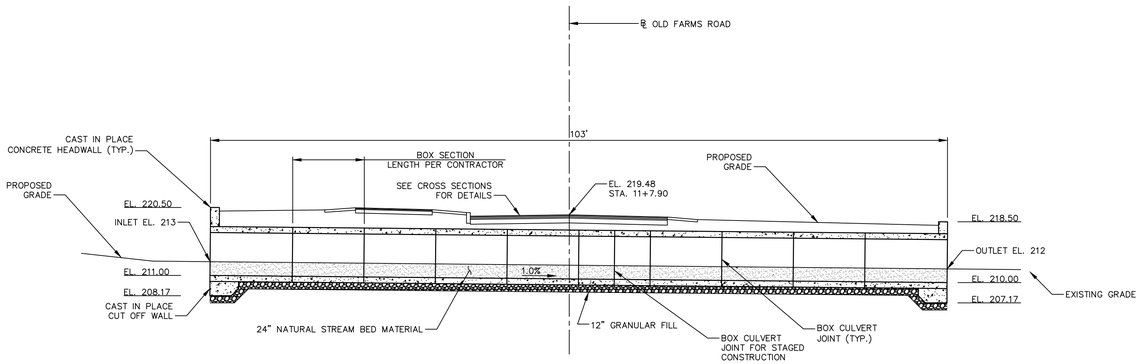


CULVERT PLAN
SCALE: 1" = 10'-0"

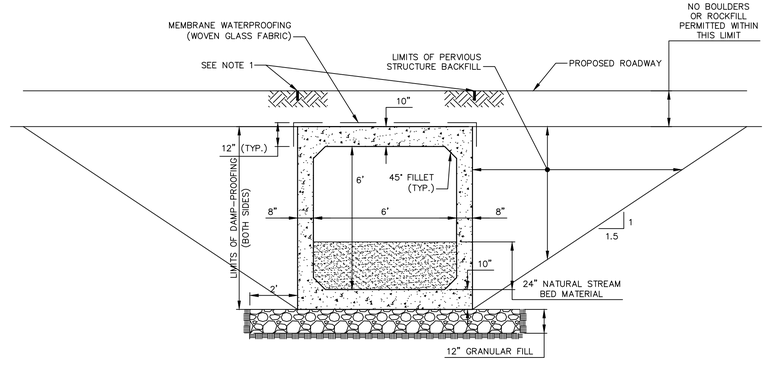
NOTES:

1. CULVERT CONSTRUCTION SHALL CONFORM TO THE CONNDOT STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818 (2020).
2. CONCRETE MATERIAL STRENGTHS:
   FOOTING CONCRETE: CLASS PCC 03340.....f'c = 3,000 PSI
   ABUTMENT AND WALL CONCRETE: CLASS PCC 03340.....f'c = 3,000 PSI
3. THE CONTRACTOR SHALL DESIGN, MANUFACTURE AND CONSTRUCT PRECAST CULVERT IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR "PRECAST CONCRETE BOX CULVERT" AND THE INSIDE DIMENSIONS, LENGTH AND DETAILS SHOWN ON THESE PLANS.
4. ALL INSERTS OR HOLES CAST INTO THE CULVERT SECTIONS FOR THE SOLE PURPOSE OF HANDLING AND SETTING THE UNITS SHALL BE GROUTED OVER TO A SMOOTH FINISH UPON COMPLETION OF THE WORK.
5. NON-SHRINK GROUT SHALL BE USED TO GROUT THE REINFORCEMENT.
6. THE COST OF FURNISHING AND INSTALLING INSERTS SHALL BE INCLUDED IN THE ITEM "6-0" X 6'-0" PRECAST CONCRETE BOX CULVERT" AND SHALL BE ONE OF THE FOLLOWING:
   1. STAR EXPANSION INDUSTRIES CORP. TYPE P-35-T
   2. RICHMOND SCREW ANCHOR CO. TYPE LF
   3. DAYTON SUPERIOR CORP. TYPE F-57

   ALL INSERTS SHALL HAVE A CORROSIVE RESISTANT COATING.
7. THE #5 BARS WITH THREADED END SHALL BE COMPATIBLE WITH THE THREADED INSERTS (SEE NOTE 4). THREADS SHALL BE LONG ENOUGH TO FULLY ENGAGE THE INSERTS. THE THREADED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.
8. ALL REINFORCEMENT TO HAVE 2" COVER UNLESS OTHERWISE NOTED.
9. ALL REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60 AND BE GALVANIZED, AFTER FABRICATION, TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS.



SECTION ALONG CULVERT ℄
SCALE: 1" = 10'-0"



NOTES:

1. CUT OVERLAY WITH A $\frac{3}{4}$" X 1 $\frac{1}{2}$" DEEP KERF AND FILL WITH A POURABLE SEALANT WHEN COVER IS LESS THAN 2'-0" (FROM TOP OF BOX TO WEARING SURFACE). COST OF CUTTING AND SEALING TO BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "SAWING AND SEALING JOINTS".
2. CULVERT LAYOUT BASED ON THE SLAB DIMENSIONS SHOWN. ADJUSTMENTS SHALL BE MADE FOR DIFFERING DIMENSIONS PER CONTRACTOR DESIGN.

CULVERT TYPICAL SECTION
SCALE: 1" = 3'-0"

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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SCALE:
HORZ.: 1" = 10'
VERT.:
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TOWN OF AVON

6' x 6' BOX CULVERT PLAN AND CROSS SECTION VIEW

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

STR-01

File: J:\DWG\P2016\0663\A30\Civil\Plan\20160663A30_STR01.dwg Layout: STR-01 Plotted: 2023-03-01 9:41 AM Saved: 2023-03-01 9:40 AM User: SBearce
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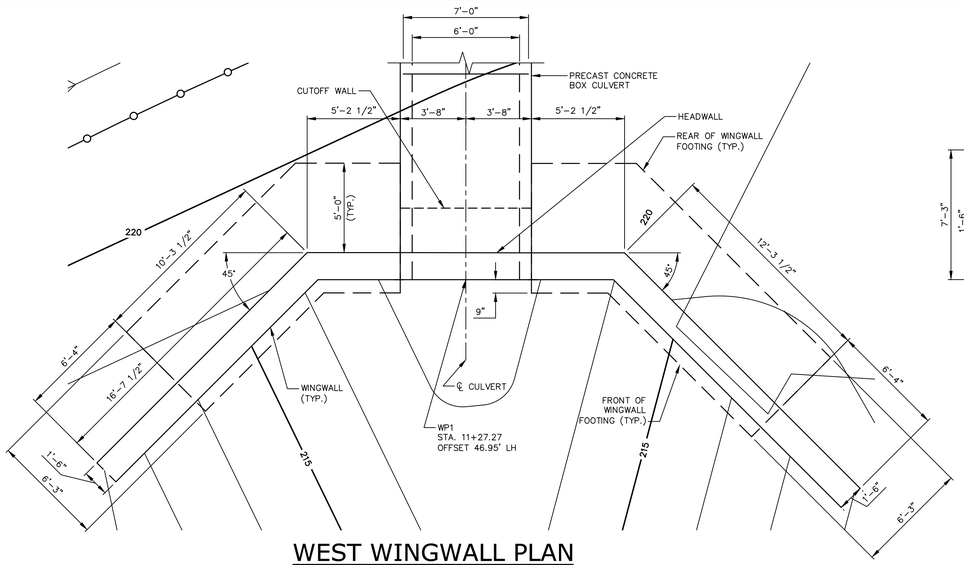
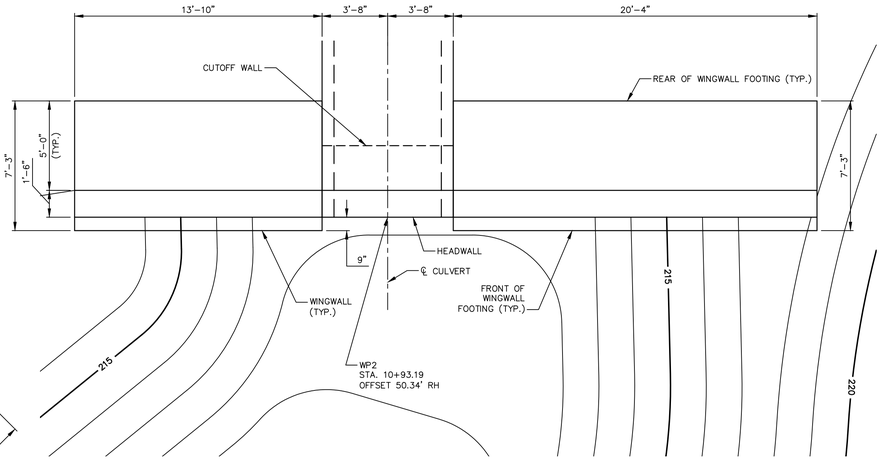


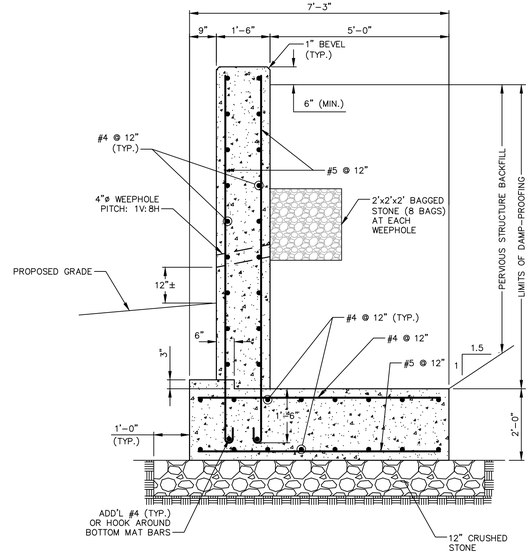
WEST WINGWALL PLAN

SCALE: $\frac{1}{4}$" = 1'-0"



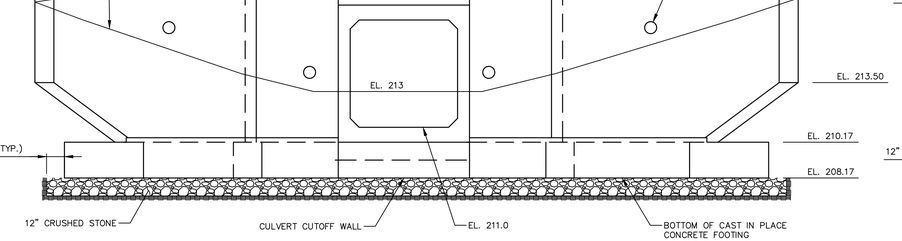
EAST WINGWALL PLAN

SCALE: $\frac{1}{4}$" = 1'-0"



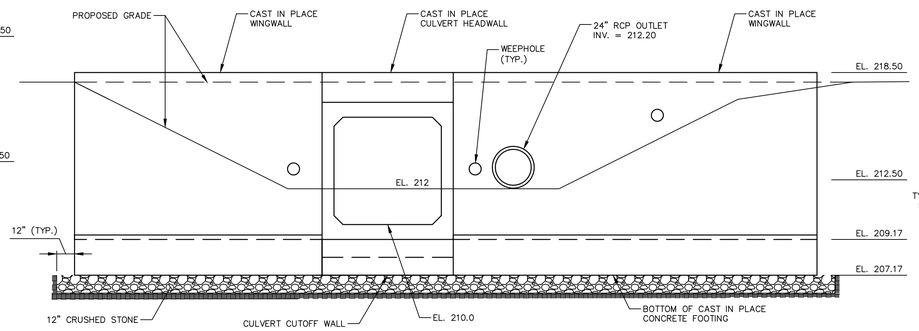
TYPICAL RETAINING WALL SECTION

SCALE: $\frac{1}{2}$" = 1'-0"



WEST WINGWALL ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



EAST WINGWALL ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"

WP	NORTHING	EASTING
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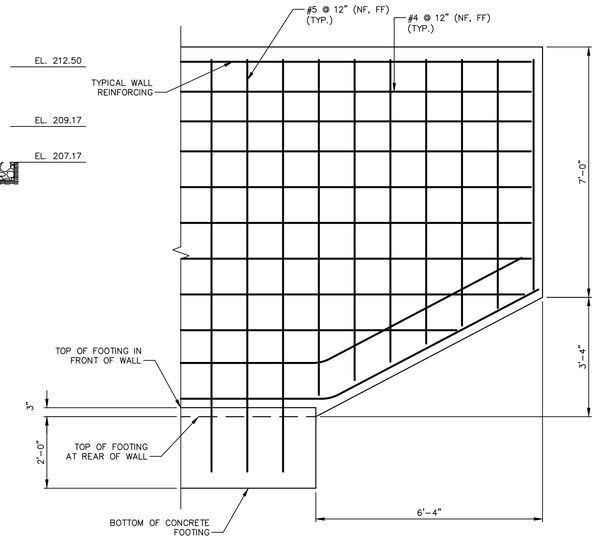
2	842770.79	975224.88



NOTE: FOOTING REINFORCEMENT NOT SHOWN FOR CLARITY.

WALL EXTENSION REINFORCING

SCALE: $\frac{1}{2}$" = 1'-0"

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SCALE:
HORZ.: AS NOTED
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GRAPHIC SCALE

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TOWN OF AVON

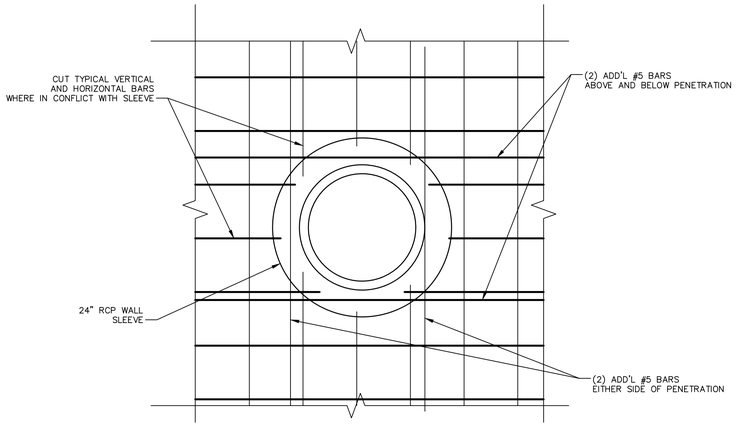
BOX CULVERT DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

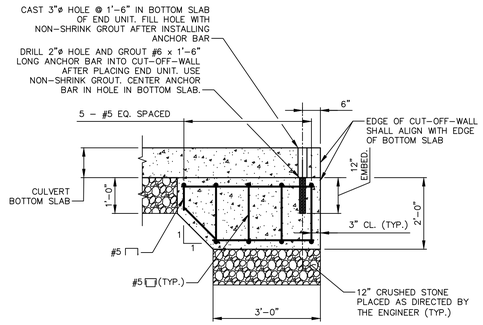
PROJ. No.: 20160663.A30
DATE: MARCH 2023

STR-02



PARTIAL SECTION THRU CULVERT AT EXPANSION JOINT

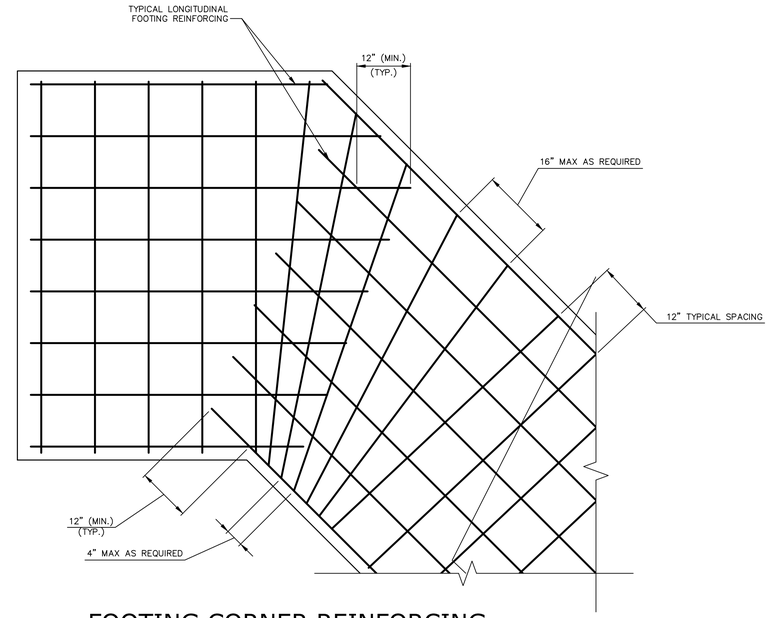
SCALE: $\frac{3}{4}$" = 1'–0"



NOTE: PROVIDE 12" SPLICE LENGTH UNLESS OTHERWISE INDICATED.

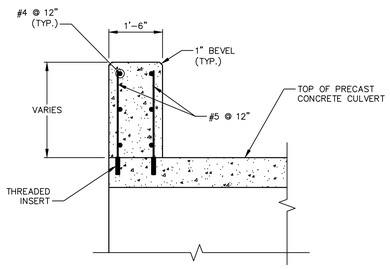
CUTOFF WALL SECTION

SCALE: $\frac{1}{2}$" = 1'–0"



FOOTING CORNER REINFORCING

SCALE: $\frac{3}{4}$" = 1'–0"



HEADWALL SECTION

SCALE: $\frac{1}{2}$" = 1'–0"

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No.	DATE	DESCRIPTION	DESIGNER	REVIEWER

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SCALE:
HORZ.: AS NOTED
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GRAPHIC SCALE

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TOWN OF AVON

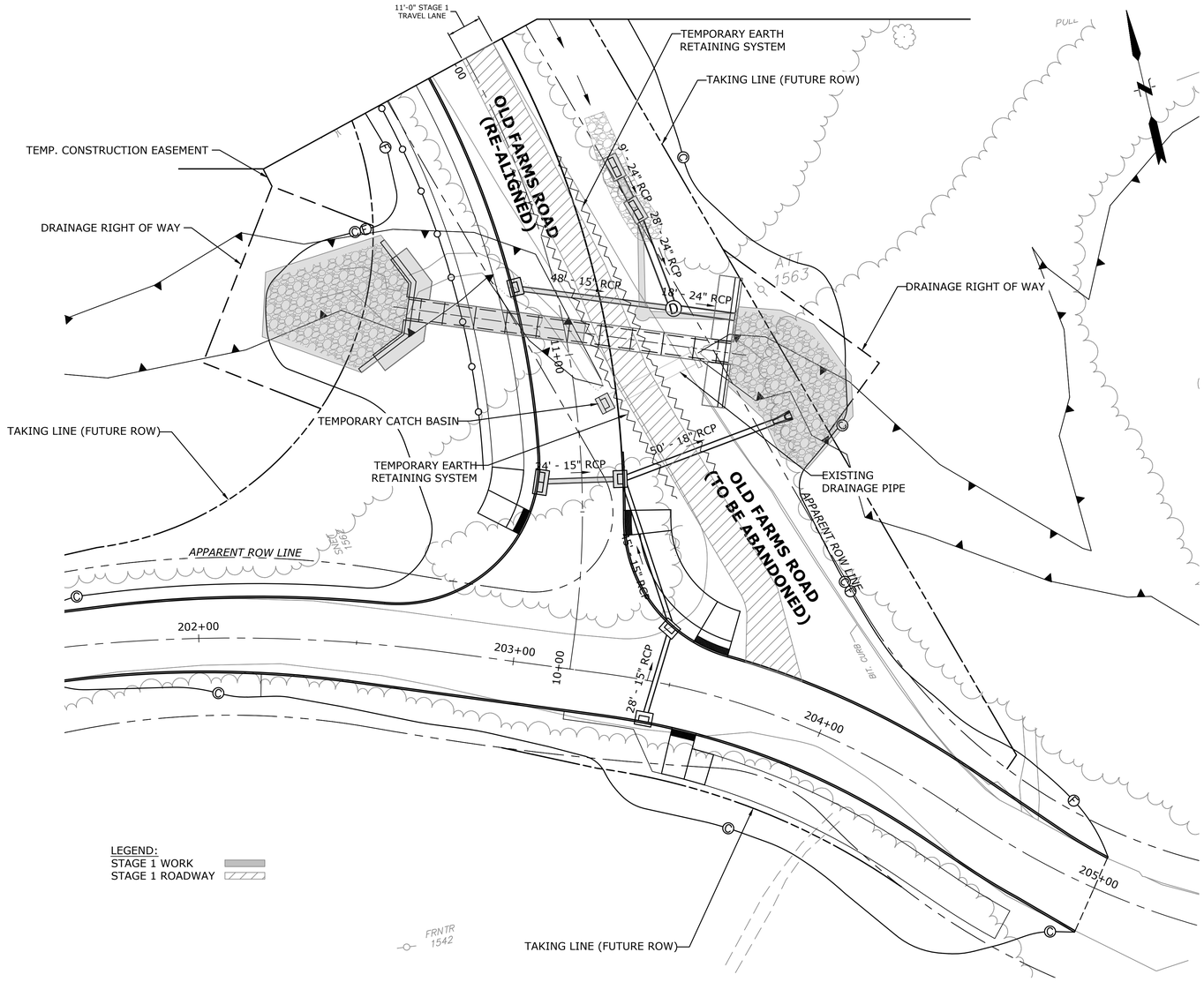
BOX CULVERT DETAILS

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

STR-03



STAGE 1

1. INSTALL SINGLE 11' LANE, WITH ALTERNATING TRAFFIC AS SHOWN WITHIN WESTERN LIMITS OF EXISTING OLD FARMS ROAD.
2. INSTALL TEMPORARY EARTH RETAINING SYSTEMS ON EITHER SIDE OF OPEN LANE, AS REQUIRED TO CONSTRUCT ADJACENT DRAINAGE SYSTEMS.
3. INSTALL A TEMPORARY MANHOLE OR CATCH BASIN AT THE WEST END OF THE EXISTING CMP CULVERT. DIVERT CULVERT FLOW TO THIS MANHOLE FOR THE REMAINDER OF STAGE 1 CONSTRUCTION.
4. INSTALL RIPRAP APRON AND DRAINAGE SYSTEM ON EAST SIDE OF ROADWAY. DIVERT DRAINAGE SYSTEMS ON EAST SIDE OF PROJECT TO THE NEW CATCH BASINS.
5. START CULVERT CONSTRUCTION FROM THE WEST SIDE, INCLUDING CULVERT CUTOFF WALL, WINGWALL FOOTINGS, WINGWALLS, AND FIRST 50'± OF THE CULVERT.
6. INSTALL DRAINAGE SYSTEMS ON THE WEST SIDE OF THE ROADWAY TO THE EXTENT POSSIBLE.
7. COMPLETE EARTHWORK AND WESTERN ROADWAY CONSTRUCTION.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SCALE:
HORZ.: 1" = 20'
VERT.:
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HORZ.: NAD 83
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TOWN OF AVON

BOX CULVERT PLAN
STAGE 1

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

STR-04

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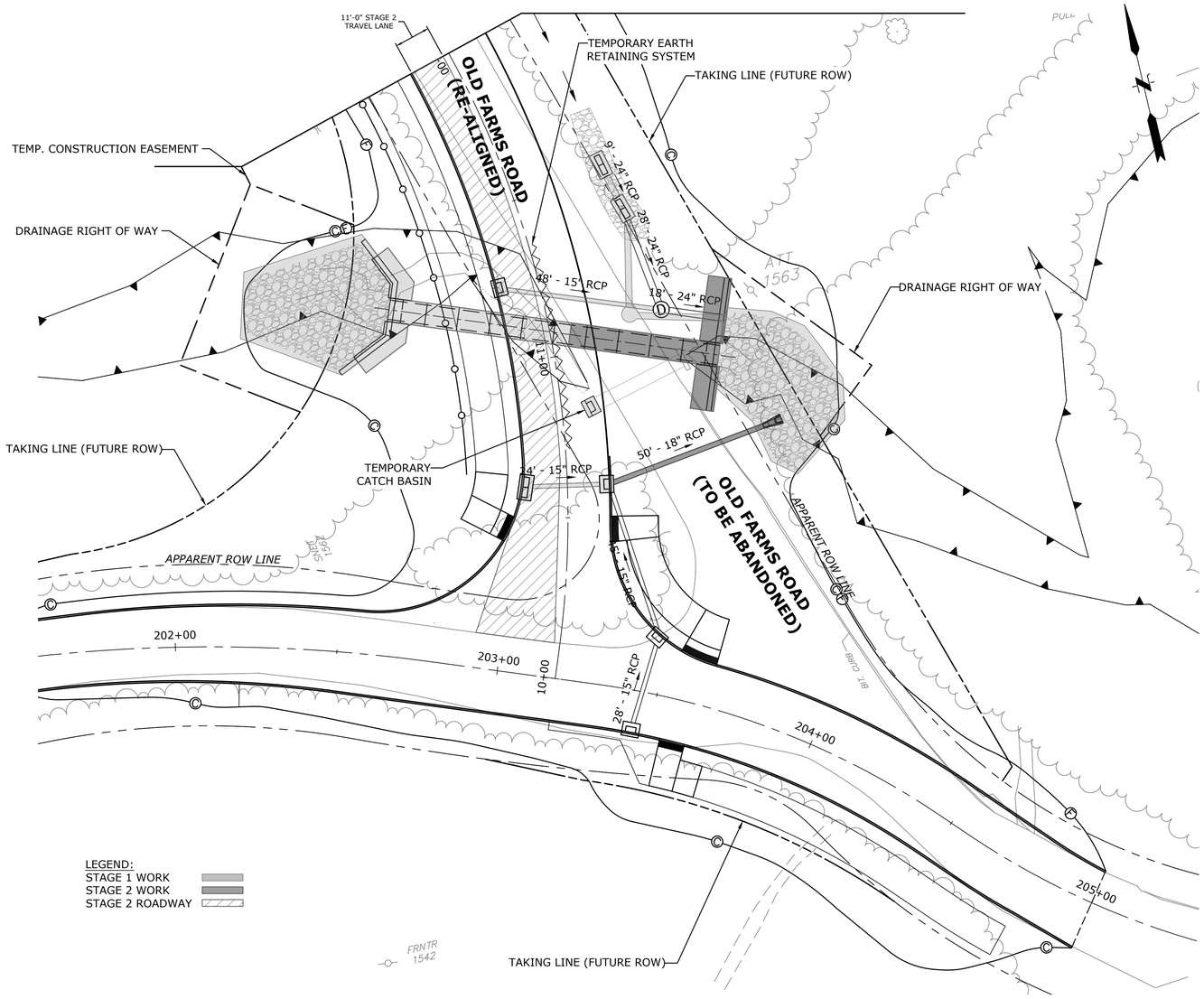

STAGE 2

1. OPEN WEST END OF CULVERT TO FLOW, DIVERT FLOW FROM COMPLETED END OF CULVERT TO THE TEMPORARY MANHOLE.
2. SHIFT 11' LANE TO THE WESTERN LIMIT OF ON NEWLY CONSTRUCTED ROAD WITH, ALTERNATING ONE LANE TRAFFIC.
3. INSTALL TEMPORARY EARTH RETAINING SYSTEMS ON EAST SIDE, AS REQUIRED TO CONSTRUCT ADJACENT DRAINAGE SYSTEMS.
4. FINISH NORTHERN PIPE RUN FROM CATCH BASIN TO MANHOLE. INSTALL SOUTHERN PIPE RUN FROM CATCH BASIN TO OUTFALL ON RIPRAP APRON.
5. DIVERT CULVERT FLOW FROM WEST END OF CULVERT INTO CATCH BASIN(S) OF THE NEWLY CONSTRUCTED ROADWAY DRAINAGE SYSTEM. REMOVE TEMPORARY MANHOLE AND ABANDON EXISTING DRAINAGE PIPE.
6. COMPLETE REMAINING 50'± OF CULVERT. CONSTRUCT FOOTINGS, IF NOT ALREADY COMPLETE, WINGWALLS, CUTOFF WALL AND HEADWALL.
7. COMPLETE EARTHWORK AND EASTERN ROADWAY CONSTRUCTION.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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SCALE:
HORZ.: 1" = 20'
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HORZ.: NAD 83
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GRAPHIC SCALE

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TOWN OF AVON

BOX CULVERT PLAN
STAGE 2

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

STR-05

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SUGGESTED SEQUENCE OF CONSTRUCTION

PRE-STAGE 1
- INSTALL DRAINAGE CROSSINGS AT SCOVILLE RD AND OLD FARMS RD

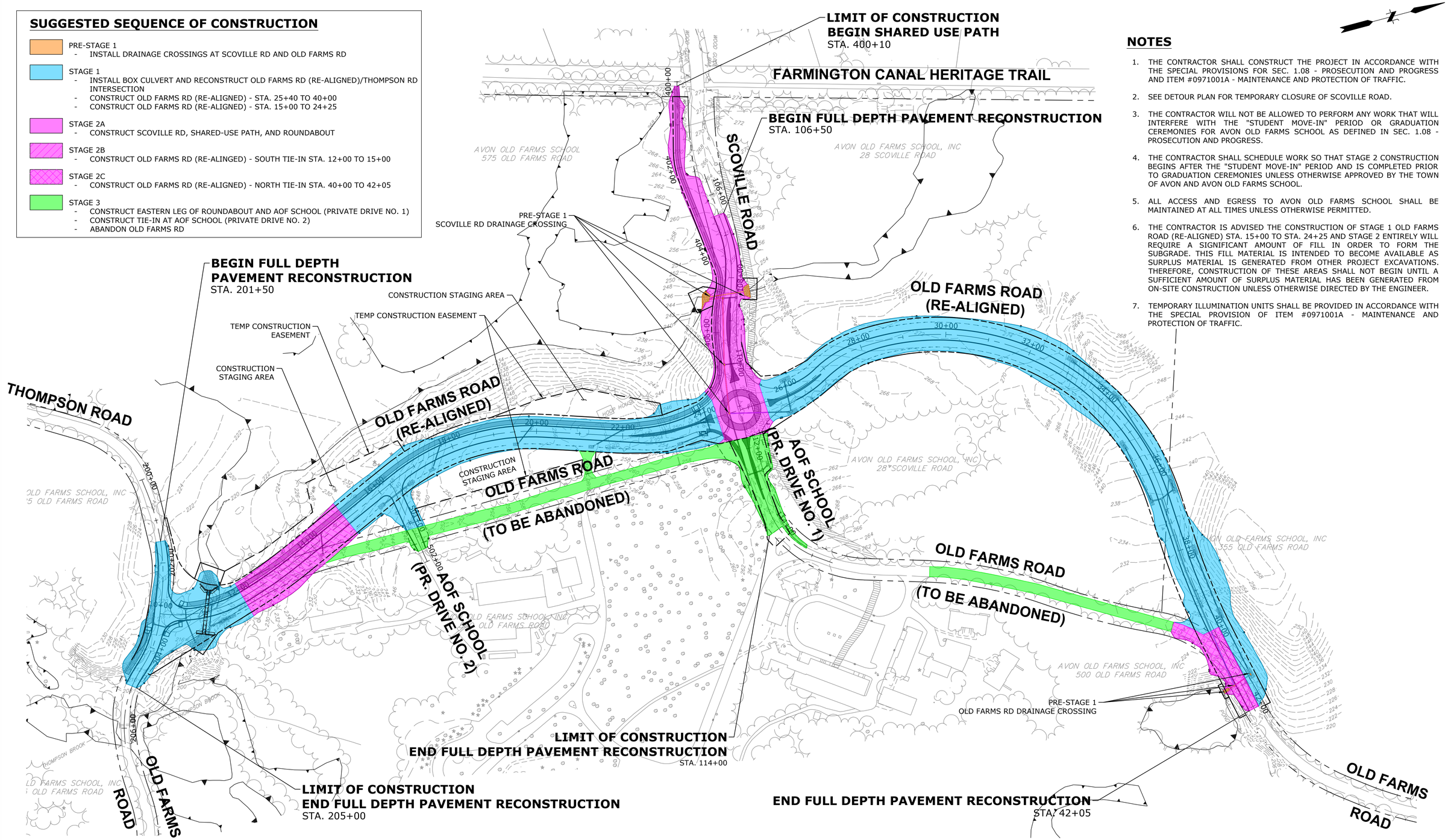
STAGE 1
- INSTALL BOX CULVERT AND RECONSTRUCT OLD FARMS RD (RE-ALIGNED)/THOMPSON RD INTERSECTION
- CONSTRUCT OLD FARMS RD (RE-ALIGNED) - STA. 25+40 TO 40+00
- CONSTRUCT OLD FARMS RD (RE-ALIGNED) - STA. 15+00 TO 24+25

STAGE 2A
- CONSTRUCT SCOVILLE RD, SHARED-USE PATH, AND ROUNDABOUT

STAGE 2B
- CONSTRUCT OLD FARMS RD (RE-ALINGED) - SOUTH TIE-IN STA. 12+00 TO 15+00

STAGE 2C
- CONSTRUCT OLD FARMS RD (RE-ALIGNED) - NORTH TIE-IN STA. 40+00 TO 42+05

STAGE 3
- CONSTRUCT EASTERN LEG OF ROUNDABOUT AND AOF SCHOOL (PRIVATE DRIVE NO. 1)
- CONSTRUCT TIE-IN AT AOF SCHOOL (PRIVATE DRIVE NO. 2)
- ABANDON OLD FARMS RD



NOTES

1. THE CONTRACTOR SHALL CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR SEC. 1.08 - PROSECUTION AND PROGRESS AND ITEM #0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.
2. SEE DETOUR PLAN FOR TEMPORARY CLOSURE OF SCOVILLE ROAD.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO PERFORM ANY WORK THAT WILL INTERFERE WITH THE "STUDENT MOVE-IN" PERIOD OR GRADUATION CEREMONIES FOR AVON OLD FARMS SCHOOL AS DEFINED IN SEC. 1.08 - PROSECUTION AND PROGRESS.
4. THE CONTRACTOR SHALL SCHEDULE WORK SO THAT STAGE 2 CONSTRUCTION BEGINS AFTER THE "STUDENT MOVE-IN" PERIOD AND IS COMPLETED PRIOR TO GRADUATION CEREMONIES UNLESS OTHERWISE APPROVED BY THE TOWN OF AVON AND AVON OLD FARMS SCHOOL.
5. ALL ACCESS AND EGRESS TO AVON OLD FARMS SCHOOL SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE PERMITTED.
6. THE CONTRACTOR IS ADVISED THE CONSTRUCTION OF STAGE 1 OLD FARMS ROAD (RE-ALIGNED) STA. 15+00 TO STA. 24+25 AND STAGE 2 ENTIRELY WILL REQUIRE A SIGNIFICANT AMOUNT OF FILL IN ORDER TO FORM THE SUBGRADE. THIS FILL MATERIAL IS INTENDED TO BECOME AVAILABLE AS SURPLUS MATERIAL IS GENERATED FROM OTHER PROJECT EXCAVATIONS. THEREFORE, CONSTRUCTION OF THESE AREAS SHALL NOT BEGIN UNTIL A SUFFICIENT AMOUNT OF SURPLUS MATERIAL HAS BEEN GENERATED FROM ON-SITE CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. TEMPORARY ILLUMINATION UNITS SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIAL PROVISION OF ITEM #0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

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DATUM:
HORZ.: NAD83
VERT.: NAVD88
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TOWN OF AVON

CONSTRUCTION STAGING PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

STG-01

File Path: J:\DWG\P2016\0663A30\Civil\Plan\20160663A30_STG01.dwg Layout: STG-01 Plotted: Tue, March 14, 2023 - 2:54 PM User: sbearce
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MS VIEW: IND-01

C — Old Farms Rd North / DETOUR ← — 80-9920 / 80-9710(L)

D — Old Farms Rd North / DETOUR → — 80-9920 / 80-9710(R)

E — Old Farms Rd South / DETOUR ← — 80-9920 / 80-9710(L)

F — Old Farms Rd South / DETOUR → — 80-9920 / 80-9710(R)

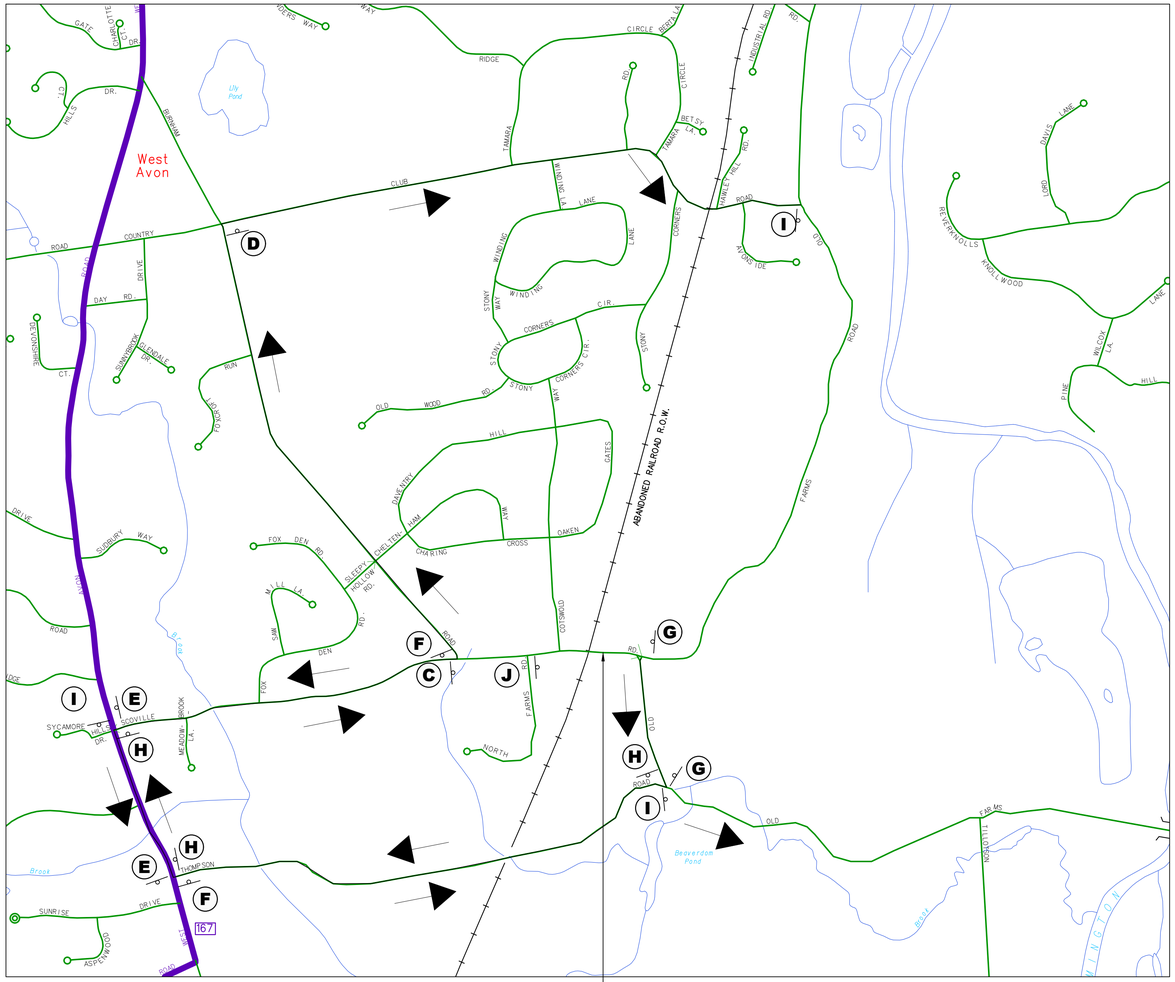
G — Scoville Rd / DETOUR ← — 80-9919 / 80-9710(L)

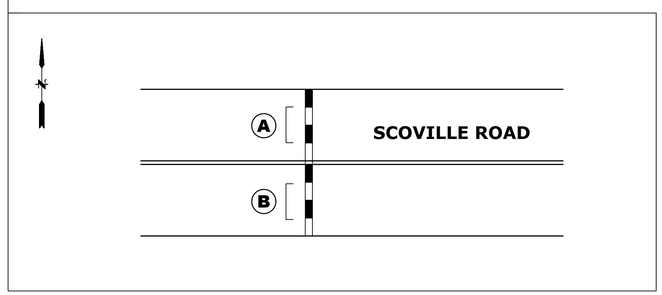
H — Scoville Rd / DETOUR → — 80-9919 / 80-9710(R)

I — END DETOUR — 80-9708

J — ROAD CLOSED 500 FT

I — Old Farms Rd South / DETOUR ↑ — 80-9920 / 80-9710





DETOUR NOTES

1. ALL SIGN LOCATIONS INDICATED ON THE PLAN ARE APPROXIMATE, EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD AS DIRECTED BY ENGINEER.
2. DETOUR SIGNS SHALL BE COVERED WHEN THE DETOUR IS NOT IN OPERATION.
3. DETOUR SIGNS SHALL BE REMOVED WHEN THE DETOUR IS NO LONGER REQUIRED.
4. EXISTING SIGNS WHICH CONFLICT WITH THE DETOUR, SIGNS SHALL BE COVERED, REMOVED, OR REVISED AS DIRECTED BY THE ENGINEER.
5. INSTALL POST-MOUNTED SIGNS IN ACCORDANCE WITH STANDARD SHEETS TR_1208-01 AND TR_1208-02.
6. THE COST OF THE DETOUR SIGNS SHALL BE PAID FOR UNDER ITEM #1220027 CONSTRUCTION SIGNS.
7. ACCESS AND EGRESS TO ALL STREETS AND DRIVES MUST BE MAINTAINED AT ALL TIMES.

LEGEND

- TEMPORARY PRECAST BARRIER
- SIGN POST - MOUNTED SIGN
- DOUBLE POST - MOUNTED SIGN
- BARRICADE WARNING LIGHTS HIGH INTENSITY
- CHANGEABLE MESSAGE SIGN
- CONSTRUCTION BARRICADE TYPE III

A — ROAD CLOSED — 80-9080

B — STOP — 31-0557

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

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

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

TOWN OF AVON

DETOUR PLAN

REALIGNMENT OF OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

DTR-01

File Path: J:\DWG\P20160663A30\Civil\Plan\20160663A30_DTR01.dwg Layout: DTR-01 Plotted: Wed, March 01, 2023 - 10:17 AM User: sbearce
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

MATCH LINE - SEE DRAWING NO. UTL-05

MATCH LINE - SEE DRAWING NO. UTL-08

MATCH LINE - SEE DRAWING NO. UTL-03

N/F
AVON OLD FARMS SCHOOL
28 SCOVILLE ROAD

N/F
AVON OLD FARMS SCHOOL
28 SCOVILLE ROAD

AVON OLD FARMS SCHOOL, INC
28 SCOVILLE ROAD

AVON OLD FARMS SCHOOL, INC
500 OLD FARMS ROAD

N/F
AVON OLD FARMS SCHOOL
575 OLD FARMS ROAD

N/F
AVON OLD FARMS SCHOOL
500 OLD FARMS ROAD

SCOVILLE ROAD

OLD FARMS ROAD (RE-ALIGNED)

OLD FARMS ROAD (TO BE ABANDONED)

AOF SCHOOL (PRIVATE DRIVE NO. 1)

APPARENT ROW LINE

PC STA. 25+68.63

PT STA. 110+51.61

PC STA. 110+34.33

PC STA. 112+08.37

PT STA. 112+08.37

PC STA. 113+51.11

PT STA. 115+11.72

PT STA. 406+13

PC STA. 406+68.81

PT STA. 23+59.75

SANITARY MANHOLE
TF=287.53'

WATER MANHOLE
AIR RELEASE

SANITARY MANHOLE
TF=268.60'
INV=263.7'±

APPROX. LOCATION
12" DIP WATER MAIN

APPROX. LOCATION
WATER MAIN

18" RCP

15" RCP

WG WG

END FULL DEPTH PAVEMENT RECONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXIST. PAVEMENT
STA. 114+00

FOR INFORMATION PURPOSES ONLY

LEGEND

SANITARY MANHOLE	STORM DRAINAGE PIPE
STORM MANHOLE	SANITARY SEWER PIPE
CATCH BASIN	OVERHEAD WIRES
FLAT TOP CATCHBASIN	WATER MAIN
DOUBLE CATCHBASIN	UNDERGROUND GAS
FLARED END	UNDERGROUND TELECOMMUNICATION
WATER VALVE	UNDERGROUND ELECTRIC
FIRE HYDRANT	
UTILITY POLE	
GUY WIRE	
GAS GATE	

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

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

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

TOWN OF AVON

EVERSOURCE UTILITY PLAN

REALIGNMENT OLD FARMS ROAD

AVON CONNECTICUT

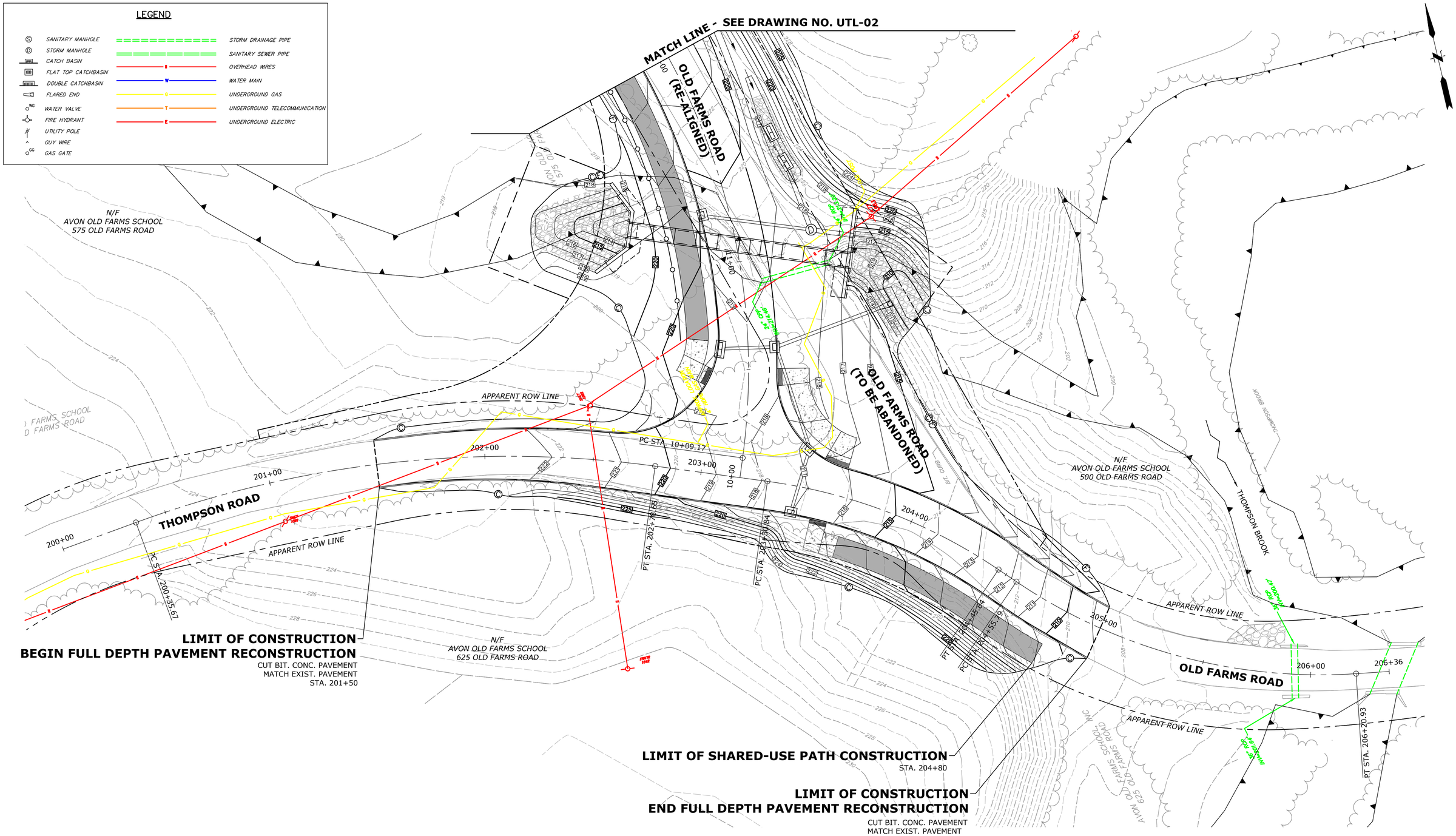
PROJ. No.: 20160663.A30
DATE: MARCH 2023

EE-01

File Path: J:\DWG\P20160663\A30\Civil\Plan\20160663A30_UTL01.dwg Layout: EE-01 Plotted: Wed. March 01, 2023 - 6:13 PM User: sbearce
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

LEGEND

- SANITARY MANHOLE
- STORM MANHOLE
- CATCH BASIN
- FLAT TOP CATCHBASIN
- DOUBLE CATCHBASIN
- FLARED END
- WG WATER VALVE
- FIRE HYDRANT
- UTILITY POLE
- GUY WIRE
- GG GAS GATE
- STORM DRAINAGE PIPE
- SANITARY SEWER PIPE
- OVERHEAD WIRES
- W WATER MAIN
- G UNDERGROUND GAS
- T UNDERGROUND TELECOMMUNICATION
- E UNDERGROUND ELECTRIC



LEGEND

- SANITARY MANHOLE
- STORM MANHOLE
- CATCH BASIN
- FLAT TOP CATCHBASIN
- DOUBLE CATCHBASIN
- FLARED END
- WATER VALVE
- FIRE HYDRANT
- UTILITY POLE
- GUY WIRE
- GAS GATE
- STORM DRAINAGE PIPE
- SANITARY SEWER PIPE
- OVERHEAD WIRES
- WATER MAIN
- UNDERGROUND GAS
- UNDERGROUND TELECOMMUNICATION
- UNDERGROUND ELECTRIC

MATCH LINE - SEE DRAWING NO. UTL-02

N/F
AVON OLD FARMS SCHOOL
575 OLD FARMS ROAD

OLD FARMS ROAD
(RE-ALIGNED)

OLD FARMS ROAD
(TO BE ABANDONED)

N/F
AVON OLD FARMS SCHOOL
500 OLD FARMS ROAD

THOMPSON BROOK

APPARENT ROW LINE

PC STA. 10+09.17

PT STA. 202+78.65

PC STA. 203+90.84

PT STA. 204+45.84

PC STA. 204+55.75

PT STA. 206+20.93

THOMPSON ROAD

PC STA. 200+35.67

N/F
AVON OLD FARMS SCHOOL
625 OLD FARMS ROAD

LIMIT OF CONSTRUCTION
BEGIN FULL DEPTH PAVEMENT RECONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXIST. PAVEMENT
STA. 201+50

LIMIT OF SHARED-USE PATH CONSTRUCTION
STA. 204+80

LIMIT OF CONSTRUCTION
END FULL DEPTH PAVEMENT RECONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXIST. PAVEMENT
STA. 205+00

FOR INFORMATION PURPOSES ONLY

File Path: J:\DWG\P2016\0663A30\Civil\Plan\20160663A30_UTL01.dwg Layout: CG-01 Plotted: Wed, March 01, 2023 - 6:13 PM User: sbearce
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

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

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
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www.fando.com

TOWN OF AVON

CNG UTILITY PLAN

REALIGNMENT OLD FARMS ROAD

AVON CONNECTICUT

PROJ. No.: 20160663.A30
DATE: MARCH 2023

CG-01

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT # L004-0001 **REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
✓	HW-211_01	ANTI-TRACKING PAD	11-09-22
✓	HW-286_01	DRAINAGE TRENCH EXCAVATION	11-09-22
	HW-506 01a	ENDWALLS	11-09-22
	HW-506 01b	STEEL REINFORCING FOR ENDWALLS	11-09-22
	HW-506_02	TYPE "D-G" & "L" ENDWALLS	11-09-22
	HW-506_03	ENDWALLS FOR PIPE - ARCH	11-09-22
✓	HW-586_01	CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES	11-09-22
	HW-586_02	CATCH BASIN (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE I STRUCTURES	11-09-22
✓	HW-586_03	CATCH BASIN (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE II STRUCTURES	11-09-22
✓	HW-586_04	PRECAST CATCH BASIN AND ROUND STRUCTURE	11-09-22
	HW-586_05	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE I	11-09-22
✓	HW-586_06	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II	11-09-22
✓	HW-586 07a	CATCH BASIN TYPE "C" AND "C-L" TOPS	11-09-22
	HW-586 07b	CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE I TOPS	11-09-22
✓	HW-586 07c	CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE II TOPS	11-09-22
	HW-586 07d	CATCH BASIN TYPE "C-G" AND "C-M" BARRIER CURB TOPS	11-09-22
✓	HW-586_08	CATCH BASIN FRAMES AND GRATES	11-09-22
	HW-586_09	CATCH BASIN LOCK DOWN TOPS	11-09-22
✓	HW-586_10a	MANHOLE FRAME AND COVER	11-09-22
	HW-586_10b	MANHOLE FRAME AND GRATE	11-09-22
✓	HW-586_10c	REINFORCED PRECAST CONCRETE MANHOLE	11-09-22
✓	HW-586_10d	MANHOLE NON-PRECAST CONCRETE UNIT	11-09-22
✓	HW-686_01a	CONCRETE PIPE CONNECTION SHEET 1	11-09-22
✓	HW-686_01b	CONCRETE PIPE CONNECTION SHEET 2	11-09-22
	HW-686_02a	DRAINANGE PIPE ENDS SHEET 1 [CORRUGATED METAL PIPE]	11-09-22
✓	HW-686_02b	DRAINAGE PIPE ENDS SHEET 2 [CONCRETE PIPE]	11-09-22
	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	11-09-22
	HW-803_01	PAVED APRONS	11-09-22
✓	HW-811_01	CONCRETE CURBING	11-09-22
	HW-813_01	GRANITE STONE TRANSITION CURBING	11-09-22
	HW-813_02	STONE CURBING	11-09-22
	HW-815_01	BITUMINOUS CONCRETE CURBING	11-09-22

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-821_01a	TRANSITION - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 1	11-09-22
	HW-821_01b	TRANSITION - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 2	11-09-22
	HW-821_01c	TRANSITION - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 3	11-09-22
	HW-821_02a	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	11-09-22
	HW-821_02b	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	11-09-22
	HW-821_03a	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 1	11-09-22
	HW-821_03b	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 2	11-09-22
	HW-821_03c	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 3	11-09-22
	HW-821_03d	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 4	11-09-22
	HW-821_03e	TRANSITION - 32" JERSEY SHAPE TO 45" F-SHAPE	11-09-22
	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	11-09-22
	HW-821_04b	MERRITT PARKWAY - 2' WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	11-09-22
	HW-821_05a	TRANSITION - 45" F-SHAPE TO 54" VERTICAL SHAPE SHEET 1	11-09-22
	HW-821_05b	TRANSITION - 45" F-SHAPE TO 54" VERTICAL SHAPE SHEET 2	11-09-22
	HW-821_06	54" VERTICAL SHAPE BARRIER	11-09-22
	HW-821_07	MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS	11-09-22
	HW-821_08a	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM	11-09-22
	HW-821_08b	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM - REINF.	11-09-22
	HW-821_09a	SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM	11-09-22
	HW-821_09b	SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM - REINF.	11-09-22
	HW-821_10a	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM	11-09-22
	HW-821 10b	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM REINF.	11-09-22
	HW-821_11a	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 1	11-09-22
	HW-821_11b	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 2	11-09-22
✓	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	11-09-22
✓	HW-822 02a	TEMPORARY TRAFFIC BARRIER - DETAILS	11-09-22
	HW-822 02b	TEMPORARY TRAFFIC BARRIER (BOLTED)	11-09-22
✓	HW-822 02c	TEMPORARY TRAFFIC BARRIER & TEMPORARY TRAFFIC BARRIER (PINNED)	11-09-22
	HW-905_01	STONE WALL FENCE	11-09-22
	HW-906_01	WIRE FENCE	11-09-22

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

STANDARD SHEET TITLE:
HIGHWAY STANDARD SHEET INDEX

STANDARD SHEET NO.:
1 OF 2

PLOTTED DATE: 11/15/2022

*ONLY STANDARD SHEETS MARKED WITH AN " ✓ " ARE IN THIS PROJECT # L004-0001 **REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	11-09-22
	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	11-09-22
	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350) GUIDERAIL	11-09-22
	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	11-09-22
	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	11-09-22
	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	11-09-22
	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	11-09-22
	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	11-09-22
	HW-910 09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	11-09-22
	HW-910 09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	11-09-22
	HW-910 10	METAL BEAM RAIL 8" x 6" BOX BEAM	11-09-22
	HW-910 11	CURVED GUIDERAIL TREATMENT DETAIL	11-09-22
	HW-910_12a	MERRITT PARKWAY GUIDERAIL LEADING END ATTACHMENTS AND SYSTEMS 2&3	11-09-22
	HW-910_12b	MERRITT PARKWAY GUIDERAIL HARDWARE DETAILS	11-09-22
	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	11-09-22
	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	11-09-22
	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	11-09-22
	HW-910_13b	THRIE-BEAM TRANSITIONS	11-09-22
	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	11-09-22
	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	11-09-22
	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	11-09-22
	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	11-09-22
	HW-910_17	R-B TERMINAL SECTION	11-09-21
	HW-910_18	METAL BEAM RAIL (TYPE MD-I) GUIDERAIL	11-09-22
	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	11-09-22
	HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	11-09-22
	HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	11-09-22
	HW-910_20	MASH W-BEAM HARDWARE	11-09-22
	HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL	11-09-22
	HW-910_22	METAL BEAM RAIL (MD-B MASH) GUIDERAIL	11-09-22
	HW-910_23	METAL BEAM RAIL (R-B MASH) HALF & QUARTER POST SPACING GUIDERAIL	11-09-22
	HW-910_24	METAL BEAM RAIL SPAN SECTION TYPES II AND III	11-09-22
	HW-910_25	METAL BEAM RAIL TRANSITION 350 TO MASH	11-09-22

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-910_26	THRIE-BEAM ATTACHMENT HARDWARE	11-09-22
	HW-910_27	THRIE-BEAM ATTACHMENT	11-09-22
	HW-910_28	R-B MASH BRIDGE ATTACHMENT TRAILING END	11-09-22
	HW-911_01	R-B END ANCHORAGE TYPE I AND II	11-09-22
	HW-911_02	MD-B END ANCHORAGE TYPE I	11-09-22
	HW-911_03	ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE	11-09-22
	HW-911_05	MERRITT PARKWAY GUIDERAIL END ANCHORS	11-09-22
	HW-913_01a	CHAIN LINK FENCE	11-09-22
	HW-913_01b	CHAIN LINK FENCE HARDWARE	11-09-22
	HW-913_02	CHAIN LINK FENCE GATES	11-09-22
	HW-918_01a	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1	11-09-22
	HW-918_01b	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2	11-09-22
	HW-918_01c	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3	11-09-22
✓	HW-921_01	CONCRETE SIDEWALKS	11-09-22
	HW-922_01	BITUMINOUS CONCRETE SIDEWALK AND BITUMINOUS CONCRETE DRIVEWAY	11-09-22
	HW-924_01	CONCRETE DRIVEWAY RAMPS	11-09-22
	HW-949_01a	LANDSCAPE PLANTING	11-09-22
	HW-949_01b	TREE STAKING	11-09-22
	HW-1800_01	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (FLARED AND TANGENTIAL)	11-09-22
	HW-1800 02	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (MEDIAN/GORE)	11-09-22

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

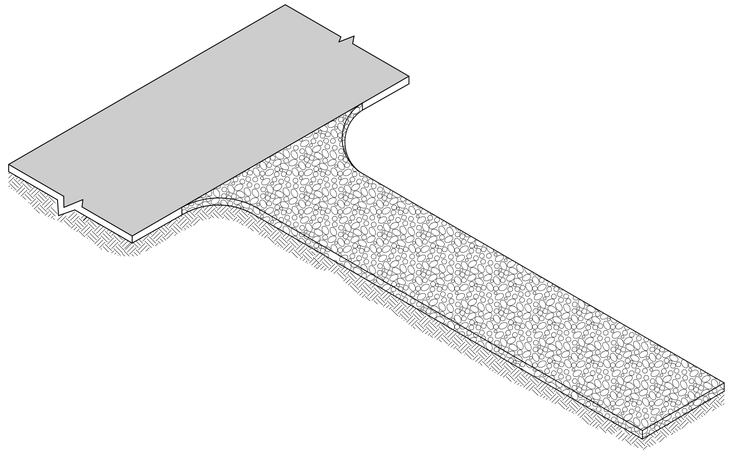
STANDARD SHEET TITLE:
HIGHWAY STANDARD SHEET INDEX

STANDARD SHEET NO.:
2 OF 2

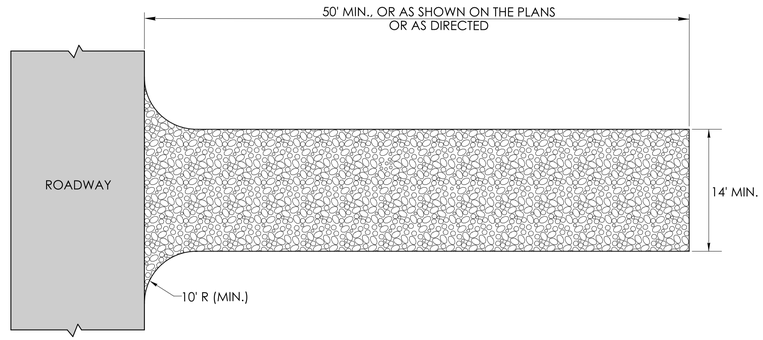
PLOTTED DATE: 11/22/2022

GENERAL NOTE:

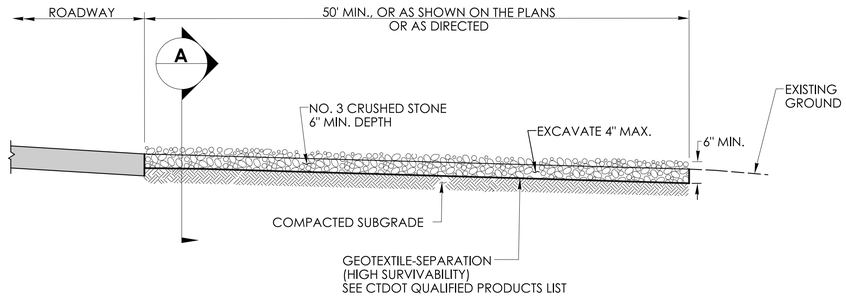
1. THE LENGTH OF THE ANTI-TRACKING PAD SHALL BE INCREASED AS DIRECTED FOR SITES COMPOSED OF CLAY OR SILTS.



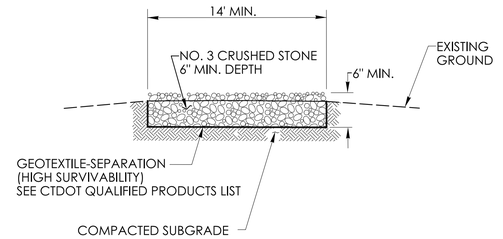
ANTI-TRACKING PAD



PLAN



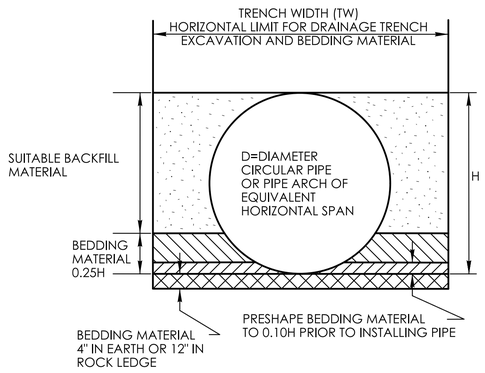
ELEVATION



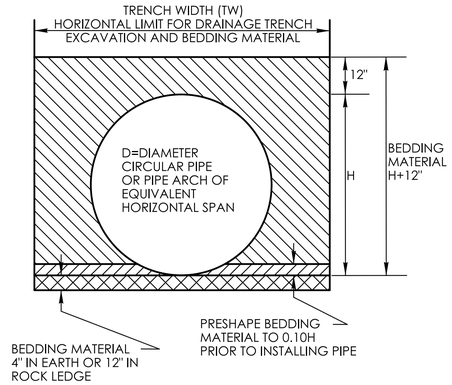
SECTION A

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:21:42-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.09 13:46:56-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: ANTI-TRACKING PAD	STANDARD SHEET NO.: HW-211_01

PLOTTED DATE: 9/21/2022



PIPE TRENCH
FOR PIPES LESS THAN 48"



PIPE TRENCH
FOR PIPES GREATER THAN
OR EQUAL TO 48"

TRENCH WIDTH (TW) CHART

PIPE, PIPE-ARCH, OR DRAINAGE STRUCTURE	TRENCH WIDTH
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN LESS THAN 30"	2' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN GREATER THAN OR EQUAL TO 30"	3' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH FABRICATED FROM STRUCTURAL PLATES	4' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
DRAINAGE STRUCTURES	2' BEYOND ALL EXTERIOR OR FOUNDATION WALLS

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Digitally signed by Leo Fontaine, P.E.
Date: 2022.09.27 14:24:13-04'00'

APPROVED BY:
Digitally signed by Calabrese, Michael
Date: 2022.11.09 13:47:30-05'00'

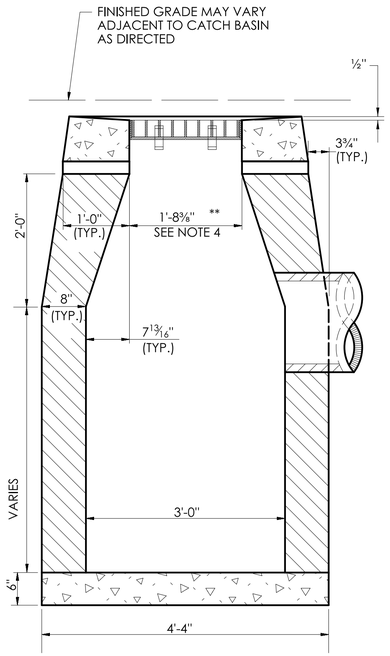
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

STANDARD SHEET TITLE:
DRAINAGE TRENCH EXCAVATION

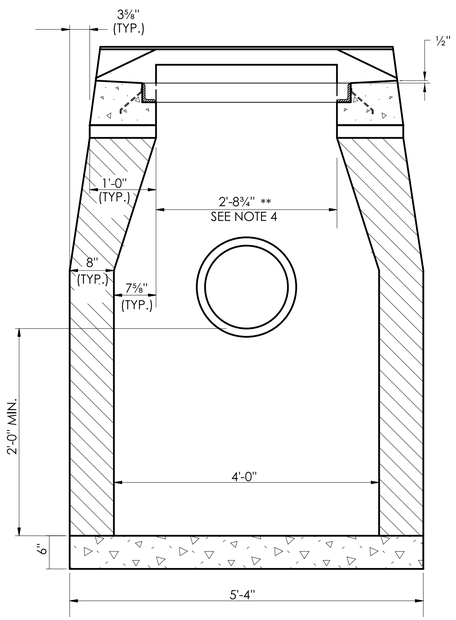
STANDARD SHEET NO.:
HW-286_01

PLOTTED DATE: 9/21/2022



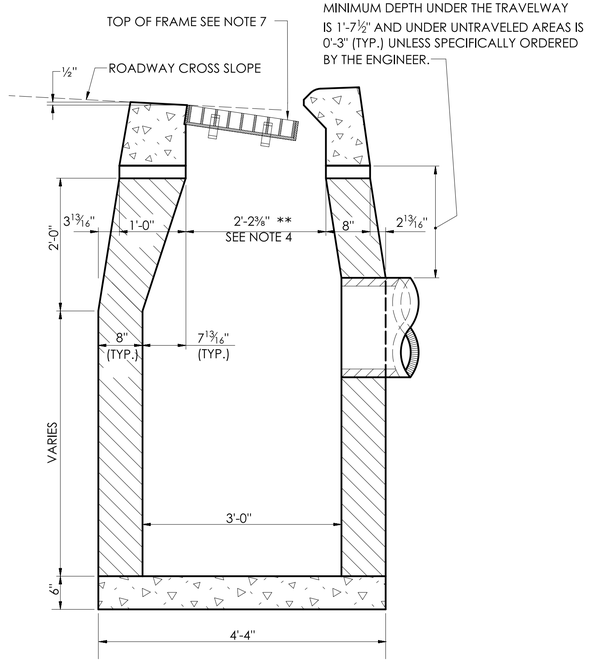
SECTION B

TYPE "C-L" CATCH BASIN



SECTION A

TYPE "C" & "C-L" CATCH BASIN
(TYPE "C" TOP SHOWN)

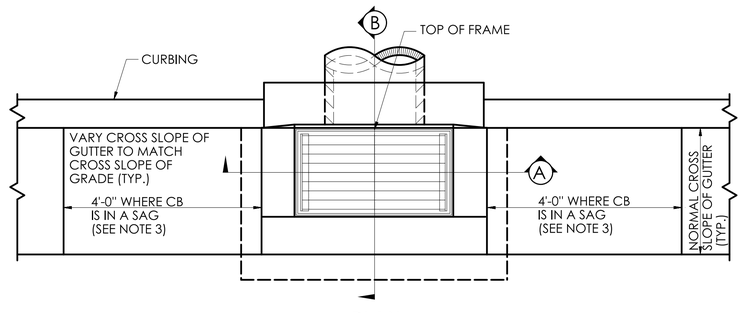


SECTION B

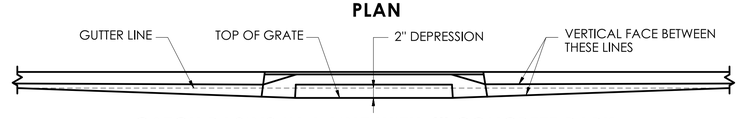
TYPE "C" CATCH BASIN

GENERAL NOTES:

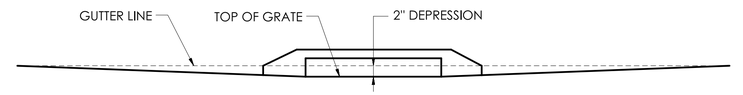
1. FOR CATCH BASIN TOPS, SEE SHEET NO. HW-586_07.
2. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
3. USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY THE ENGINEER.
4. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE DIMENSIONS SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS FOR THE CATCH BASIN OPENINGS SHOWN IN THE SECTION VIEWS **.
5. WALL THICKNESS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS SHALL START AFTER THE FIRST 10'.
6. SPACERS CAN BE EITHER CONCRETE MASONRY UNIT OR PRECAST WITH THE REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE THE PROPER GRADE SHOWN ON THE PLANS.
7. TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE AT GUTTER LINE.



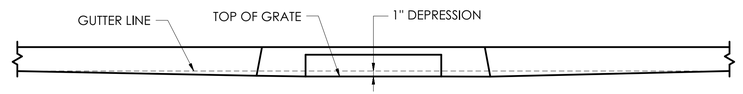
PLAN



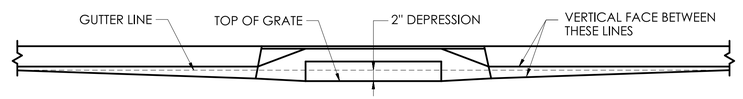
CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING



CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED

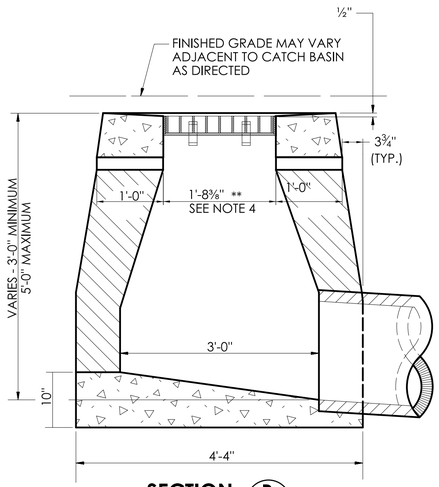


CATCH BASINS IN A LINE WITH 6" CONCRETE CURBING OR 6" STONE CURBING



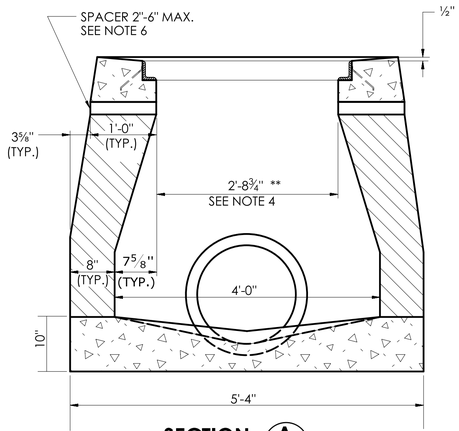
CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN



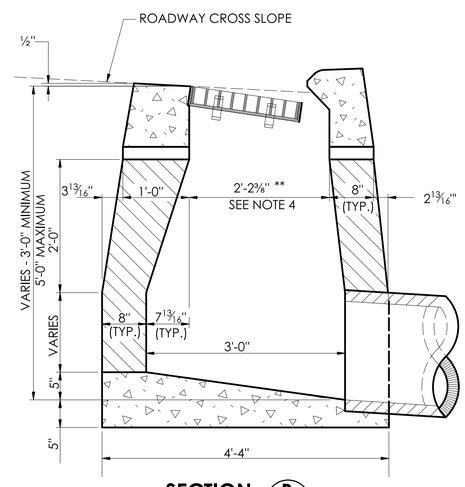
SECTION B

TYPE "C-L" DROP INLET



SECTION A

TYPE "C" & "C-L" DROP INLET
(TYPE "C-L" TOP SHOWN)



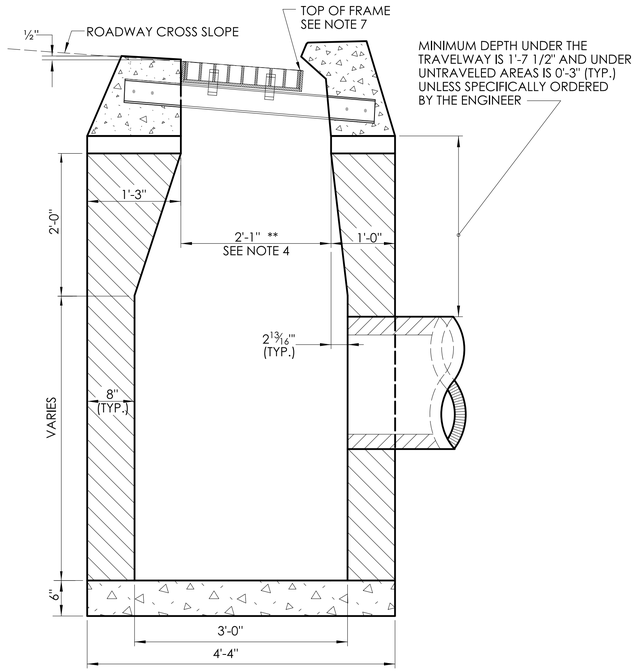
SECTION B

TYPE "C" DROP INLET

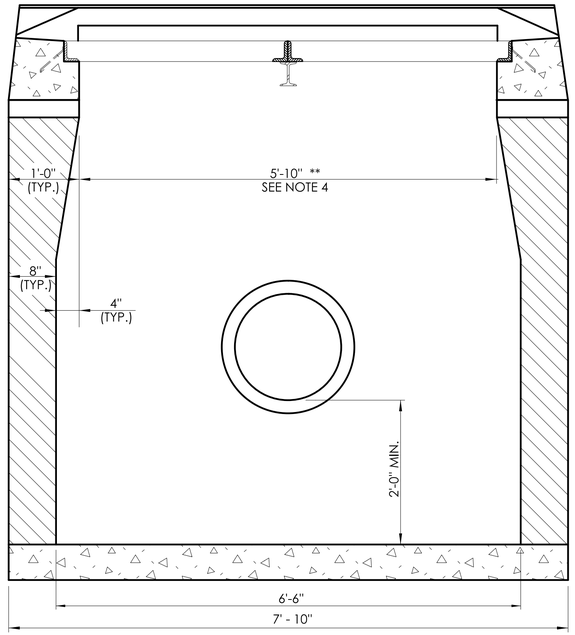
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:31:04-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.09 13:51:15-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES

STANDARD SHEET NO.: HW- 586_01

PLOTTED DATE: 9/21/2022



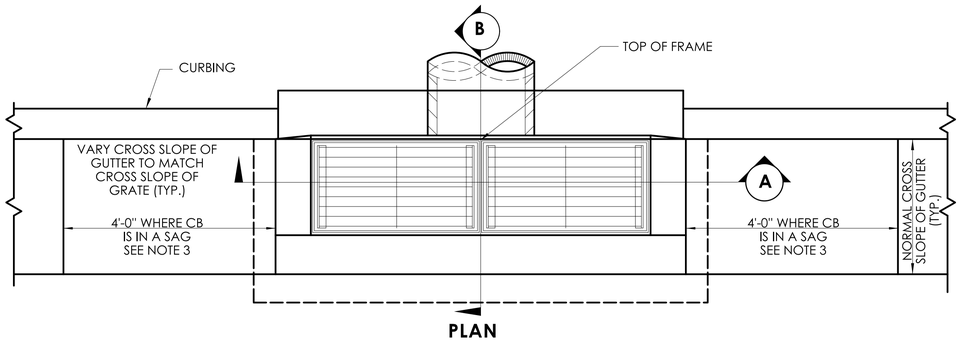
SECTION B



SECTION A

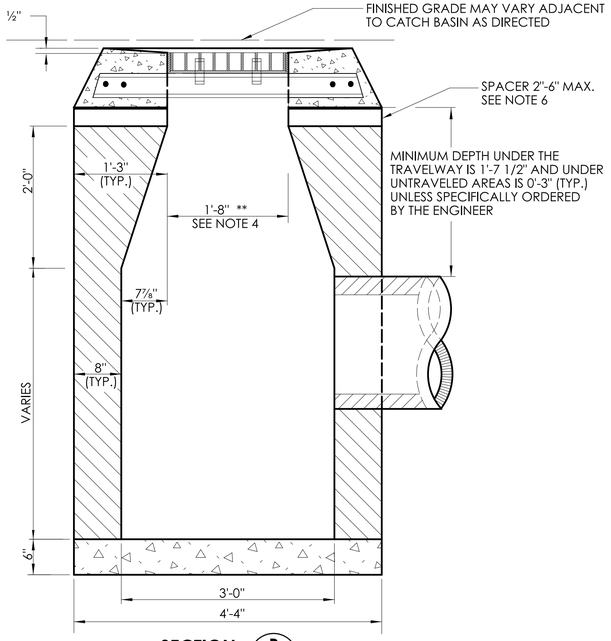
GENERAL NOTES:

1. FOR CATCH BASIN TOPS, SEE SHEET NO. HW-586_07.
2. ALL THE FACES OF THE STRUCTURE IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
3. USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE AS DIRECTED BY THE ENGINEER.
4. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH DIMENSIONS SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY **.
5. WALL THICKNESS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS SHALL START AFTER THE FIRST 10'.
6. SPACERS CAN BE EITHER CONCRETE MASONRY UNIT OR PRECAST, WITH THE REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE THE PROPER GRADE SHOWN ON THE PLANS.
7. TOP OF FRAME ELEVATION SHALL BE MEASURED IN BETWEEN BOTH GRATES AT THE GUTTER.

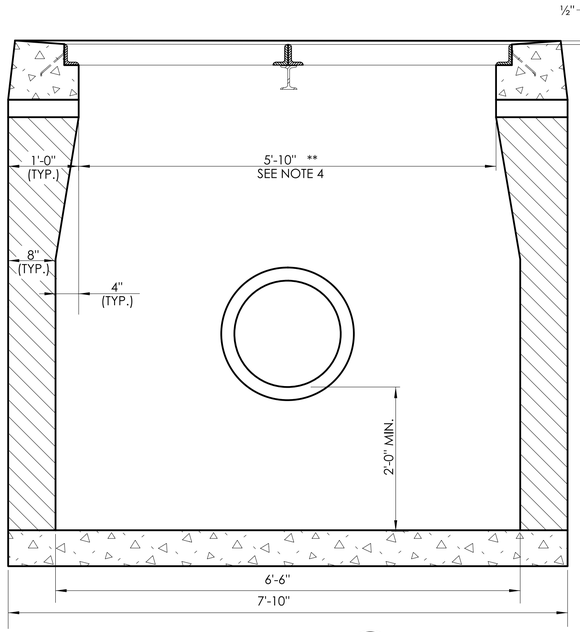


PLAN

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II



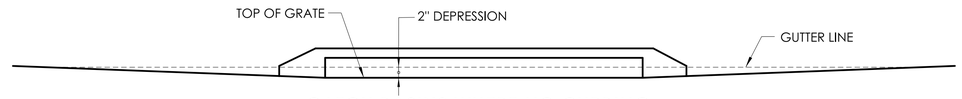
SECTION B



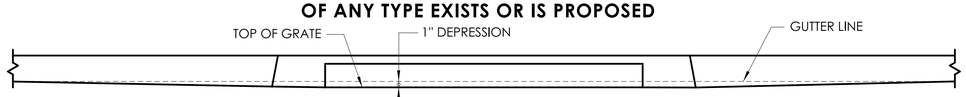
SECTION A

TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II

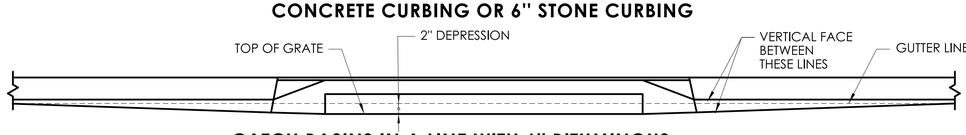
CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING



CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED



CATCH BASINS IN A LINE WITH 6" CONCRETE CURBING OR 6" STONE CURBING

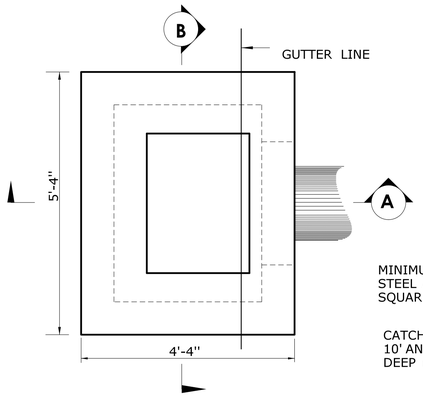


CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

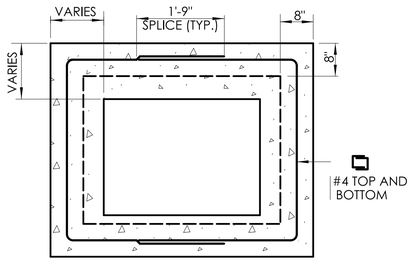
DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:31:43-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 11:50:38-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CATCH BASIN (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE II STRUCTURES	STANDARD SHEET NO.: HW- 586_03

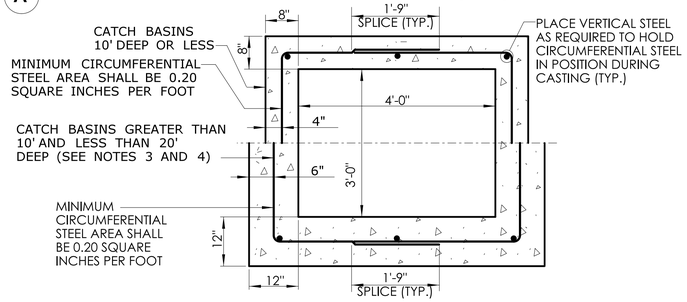
PLOTTED DATE: 9/21/2022



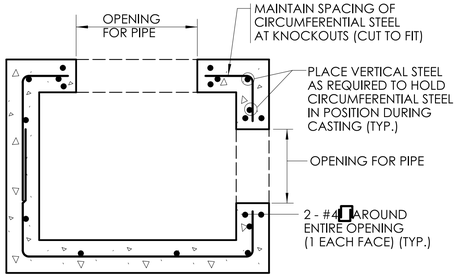
PLAN



REDUCER SECTION (TYP.)



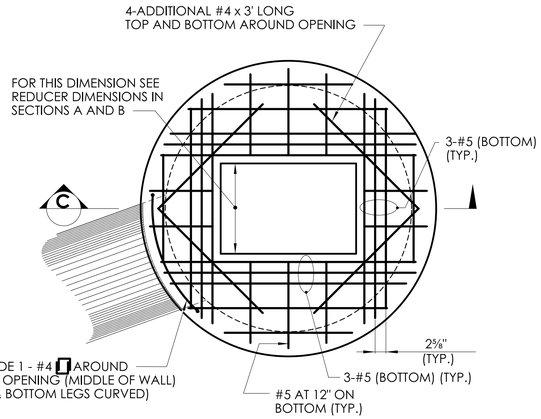
RISER SECTION (TYP.)



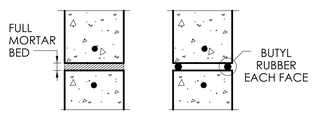
TYPICAL SECTION THROUGH
RISER WITH OPENING

GENERAL NOTES:

1. WELDED WIRE FABRIC WITH AN AREA EQUAL TO OR GREATER THAN THE REINFORCING SHOWN MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.
2. ALL REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 2 INCHES, EXCEPT FOR BENEATH BOTTOM REINFORCEMENT IN TOP SLABS, WHERE THE MINIMUM MAY BE 1½ INCHES.
3. WALL THICKNESS OF ALL CATCH BASINS OVER 10 FEET DEEP SHALL BE INCREASED TO 12 INCHES. INSIDE DIMENSIONS SHALL REMAIN THE SAME. THE 12 INCH THICKNESS SHALL START AFTER THE FIRST 10 FEET.
4. BASES AND RISERS AT A DEPTH OF 20 FEET AND GREATER SHALL BE DESIGNED BY THE CONTRACTOR AND WORKING DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
5. RISERS MAY BE PREFABRICATED WITH PIPE OPENINGS IN ALL FOUR WALLS. ADEQUATE REINFORCING AROUND PIPE OPENINGS SHALL BE PROVIDED. RISERS USED WHERE A PIPE OPENING IS TO REMAIN IN PLACE MUST BE FORMED UP WITH BRICK AS DIRECTED BY THE ENGINEER.
6. RISERS SHALL NEVER HAVE CORNER PIPE ENTRIES. ROUND STRUCTURES SHALL BE USED WHEN PIPES CANNOT ALIGN WITH A RECTANGULAR STRUCTURE KNOCKOUT.
7. SHRINKAGE AND TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN THE TOPS OF SLABS. THE TOTAL AREA OF REINFORCEMENT PROVIDED SHALL BE AT LEAST 0.125 SQUARE INCHES PER FOOT IN EACH DIRECTION. THE MAXIMUM SPACING OF THIS REINFORCEMENT SHALL NOT EXCEED 18 INCHES.
8. THE DETAILS SHOWN IN THE PLAN VIEW FOR PRECAST CONCRETE ROUND STRUCTURES SHALL ALSO BE USED FOR CONVERTING MANHOLES TO CATCH BASINS.
9. FOR CATCH BASIN TOPS, SEE SHEET NO. HW-586_07 FOR RECTANGULAR OPENING OR SHEET NOS. HW-586_10a, HW-586_ 10b OR HW-586_ 10c FOR CIRCULAR OPENING.

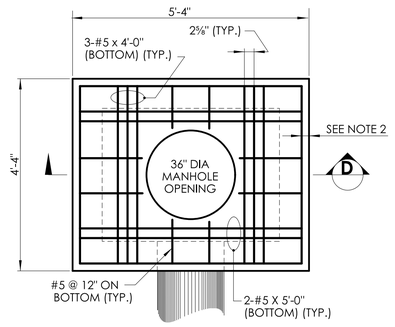


PLAN
(SEE NOTE 9)

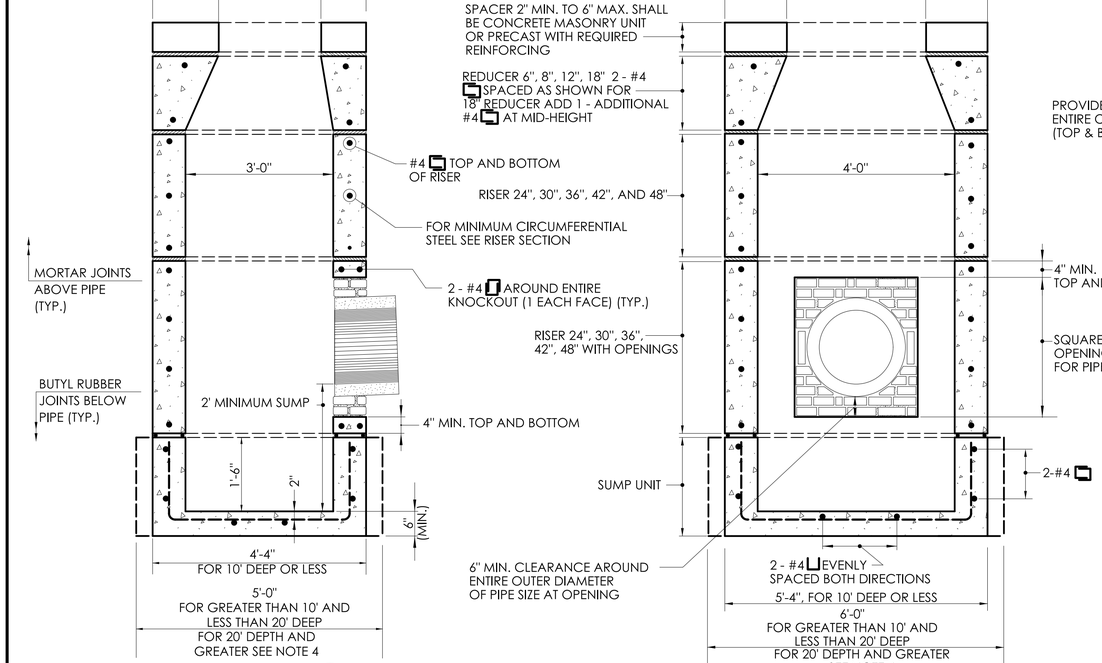


MORTAR JOINT DETAIL

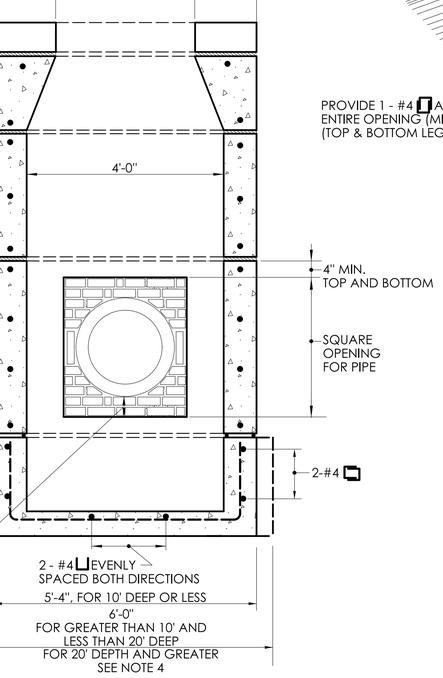
BUTYL RUBBER JOINT DETAIL



PLAN

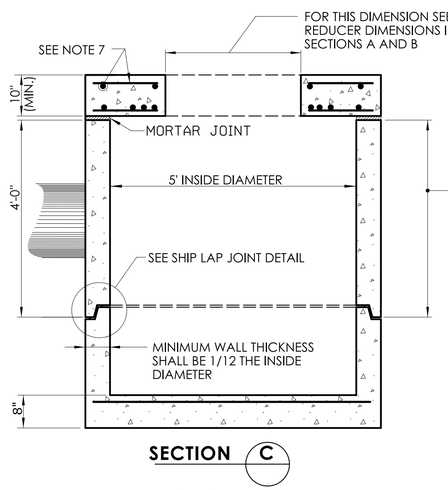


SECTION A



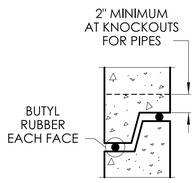
SECTION B

PRECAST CONCRETE TYPE "C" AND "C-L" CATCH BASIN
(UNDER 10' DEEP SHOWN)

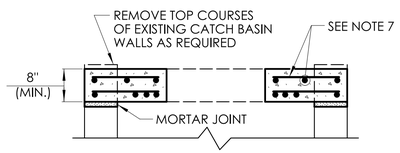


SECTION C

PRECAST CONCRETE
TYPE "C" AND "C-L" ROUND STRUCTURE
(SEE NOTE 6)



SHIP LAP
JOINT DETAIL
(FOR USE WITH ROUND
STRUCTURES ONLY)



SECTION D

TOP SLAB TO CONVERT
CATCH BASIN TO MANHOLE

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Digitally signed by Leo Fontaine, P.E.
Date: 2022.09.27 14:32:06-04'00'

APPROVED BY:
Digitally signed by Calabrese, Michael
Date: 2022.11.08 11:46:58-05'00'

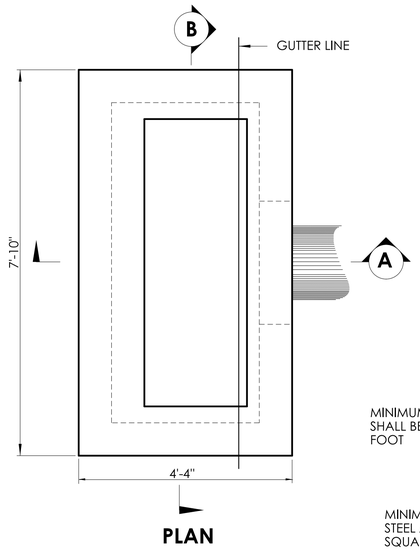
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT
STANDARD SHEET

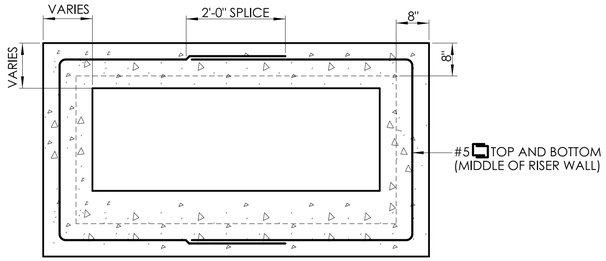
STANDARD SHEET TITLE:
PRECAST CATCH BASIN AND ROUND STRUCTURE

STANDARD SHEET NO.:
HW- 586_04

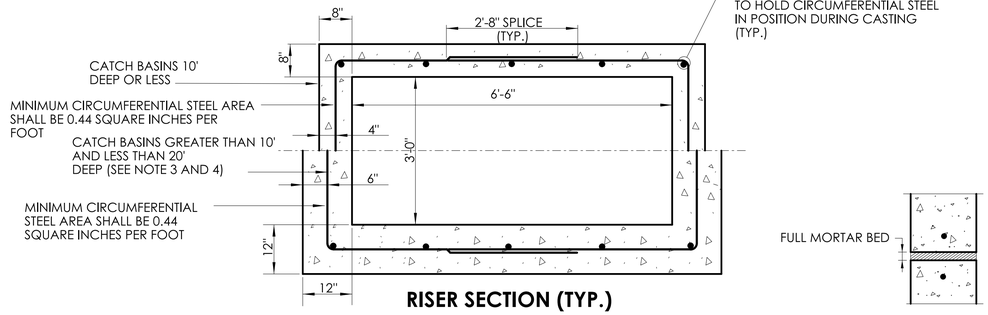
PLOTTED DATE: 9/21/2022



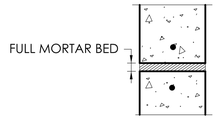
PLAN



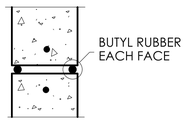
REDUCER SECTION (TYP.)



RISER SECTION (TYP.)



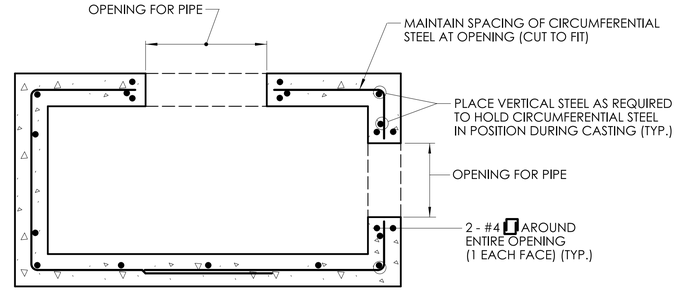
MORTAR JOINT



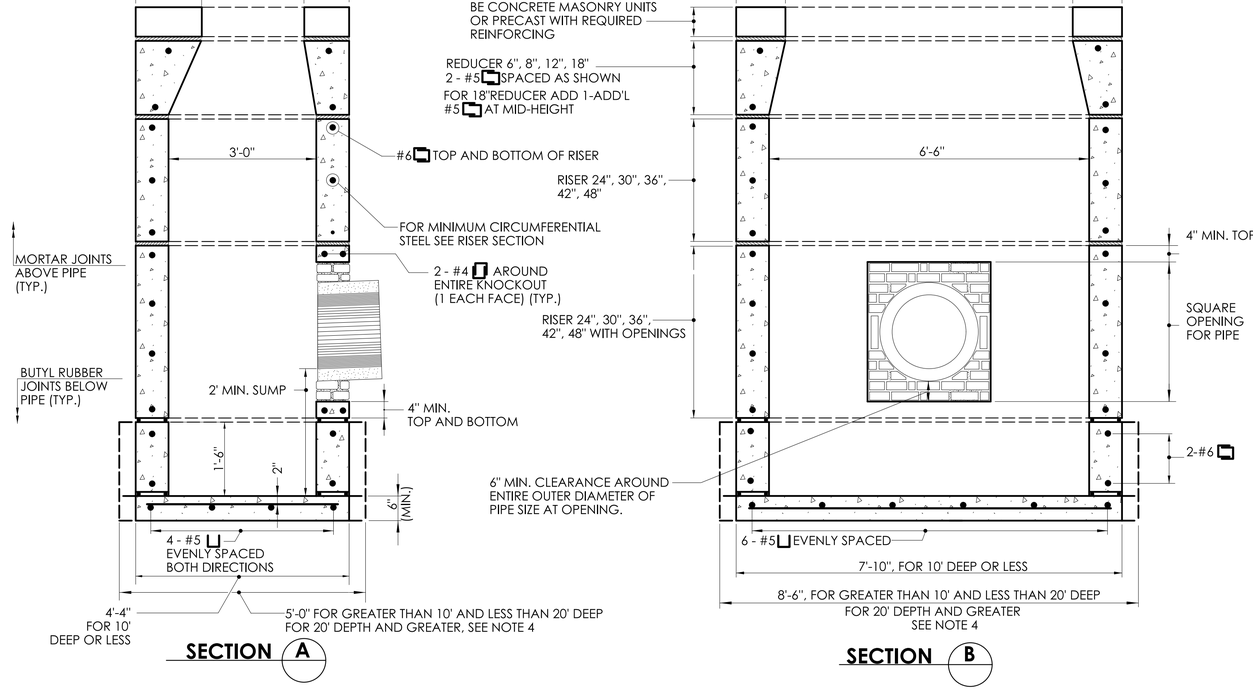
BUTYL RUBBER JOINT

GENERAL NOTES:

1. WELDED WIRE FABRIC WITH AN AREA EQUAL TO OR GREATER THAN THE REINFORCING SHOWN MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.
2. ALL REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 2 INCHES EXCEPT FOR BENEATH BOTTOM REINFORCEMENT IN TOP SLABS, WHERE THE MINIMUM MAY BE 1½ INCHES.
3. WALL THICKNESS OF ALL CATCH BASINS OVER 10 FEET DEEP SHALL BE INCREASED TO 12 INCHES. INSIDE DIMENSIONS SHALL REMAIN THE SAME. THE 12 INCH THICKNESS SHALL START AFTER THE FIRST 10 FEET.
4. BASES AND RISERS AT A DEPTH OF 20 FEET AND GREATER SHALL BE DESIGNED BY THE CONTRACTOR AND WORKING DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
5. RISERS MAY BE PREFABRICATED WITH PIPE OPENINGS IN ALL FOUR WALLS. ADEQUATE REINFORCING AROUND PIPE OPENINGS SHALL BE PROVIDED. RISERS USED WHERE A PIPE OPENING IS TO REMAIN IN PLACE MUST BE FORMED UP WITH BRICK AS DIRECTED BY THE ENGINEER.
6. RISERS SHALL NEVER HAVE CORNER PIPE ENTRIES. ROUND STRUCTURES SHALL BE USED WHEN PIPES CANNOT ALIGN WITH A RECTANGULAR STRUCTURE KNOCKOUT.
7. FOR CATCH BASIN TOPS, SEE SHEET NO. HW-586_07.



TYPICAL SECTION THROUGH SINGLE RISER WITH OPENINGS

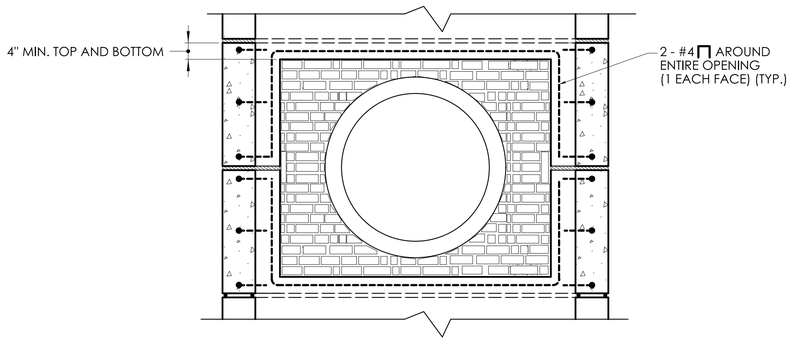


SECTION A

SECTION B

PRECAST CONCRETE TYPE "C" AND "C-L" DOUBLE GRATE TYPE II CATCH BASIN

(UNDER 10' DEEP SHOWN)



DOUBLE RISER OPENING (TYP.)
PIPES GREATER THAN 24" OUTSIDE DIAMETER

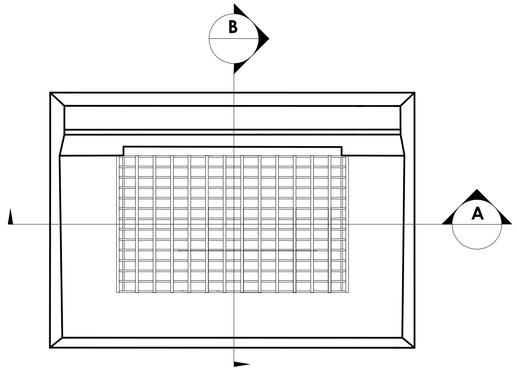
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:33:02-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 11:45:52-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II	STANDARD SHEET NO.: HW-586_06

PLOTTED DATE: 9/21/2022

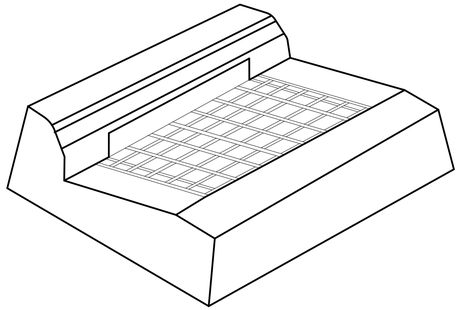
GENERAL NOTES:

1. SEE SHEET HW-586_08, FOR CATCH BASIN FRAMES AND GRATES AND HW-586_09 FOR CATCH BASIN LOCK DOWN TOPS.
2. SEE SHEET HW-586_01, CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" TO DETERMINE THE TOP OF FRAME DEPRESSION AT THE GUTTER.
3. ALL BARS SHALL HAVE A MINIMUM 2" COVER.
4. Manufacturing Dimensional Tolerance Table

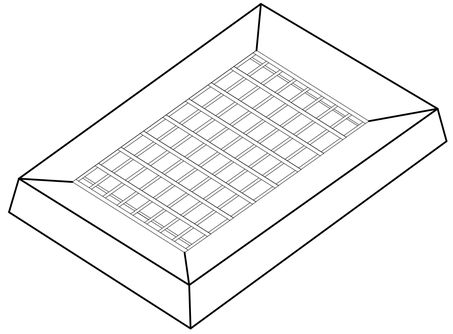
Any Dimension (D)	Allowable Tolerance
D < 5"	± ¼"
5" ≤ D ≤ 10"	± ½"
D > 10"	± 1"



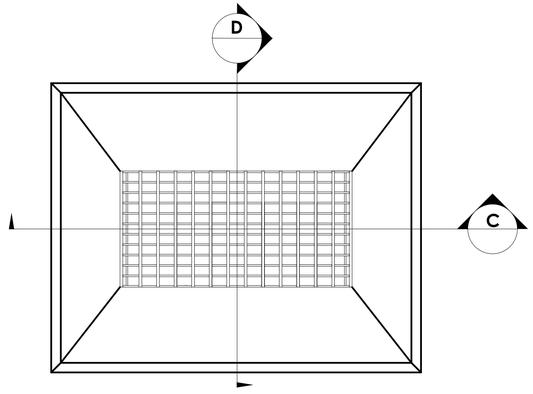
TYPE "C" CATCH BASIN TOP PLAN



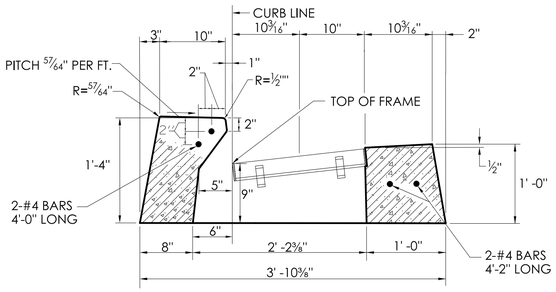
TYPE "C" CATCH BASIN TOP



TYPE "C-L" CATCH BASIN TOP

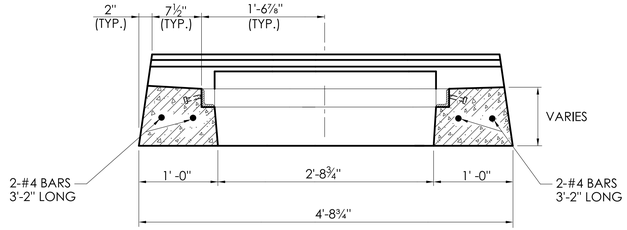


TYPE "C-L" CATCH BASIN TOP PLAN



TYPE "C" CATCH BASIN TOP FOR 6" CONCRETE CURBING OR 6" STONE CURBING

SECTION B

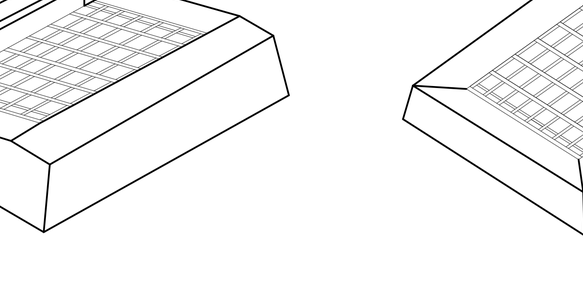


TYPE "C" CATCH BASIN TOP

SECTION A

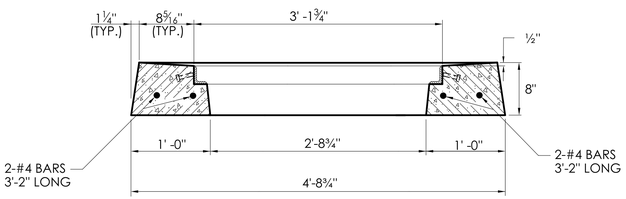
TYPE "C" CATCH BASIN TOP FOR 6" BITUMINOUS CONCRETE LIP CURBING

SECTION B



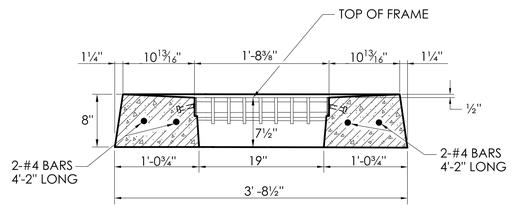
TYPE "C" CATCH BASIN TOP FOR 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING

SECTION B



TYPE "C-L" CATCH BASIN TOP

SECTION C



TYPE "C-L" CATCH BASIN TOP

SECTION D

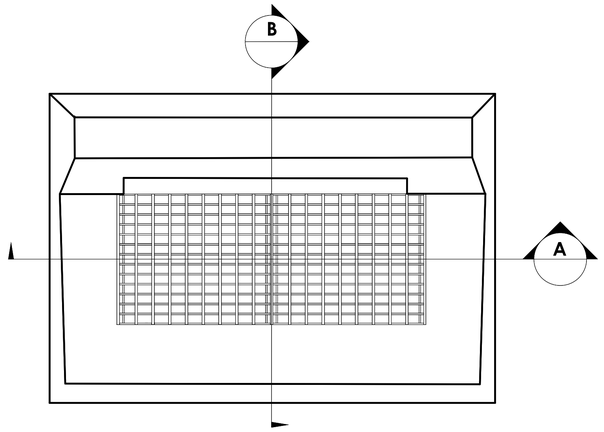
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.10.05 14:17:48-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.09 13:53:03-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CATCH BASIN TYPE "C" AND "C-L" TOPS	STANDARD SHEET NO.: HW- 586_07a

PLOTTED DATE: 9/21/2022

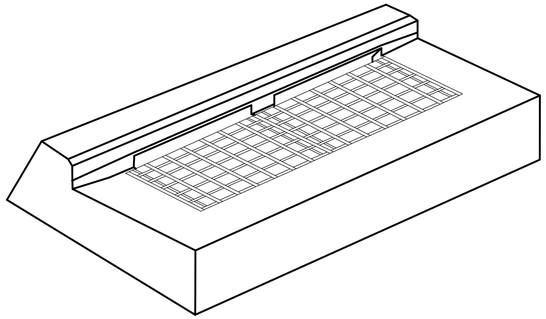
GENERAL NOTES:

1. SEE SHEET HW-586_08 FOR CATCH BASIN FRAMES AND GRATES, AND HW-586_09 CATCH BASIN LOCK DOWN TOPS.
2. SEE SHEET HW-586_03 CATCH BASIN TOPS (TYPE "C" AND "C-L") FOR DOUBLE GRATE TYPE II, TO DETERMINE THE TOP OF FRAME AT THE GUTTER.
3. ALL BARS SHALL HAVE A MINIMUM 2" COVER
4. MANUFACTURING DIMENSIONAL TOLERANCE TABLE

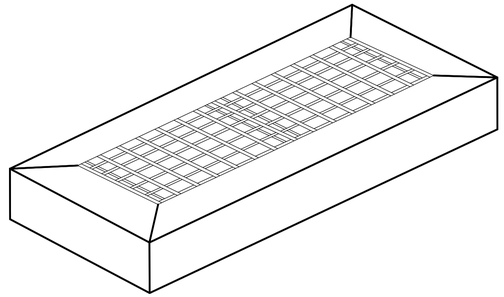
Any Dimension (D)	Allowable Tolerance
D < 5"	± ¼"
5" ≤ D ≤ 10"	± ½"
D > 10"	± 1"



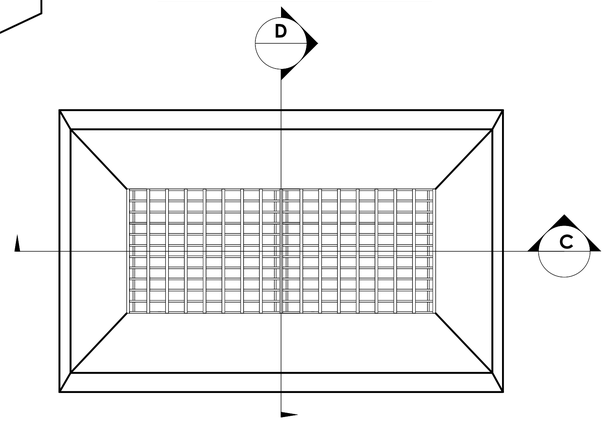
TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II TOP PLAN



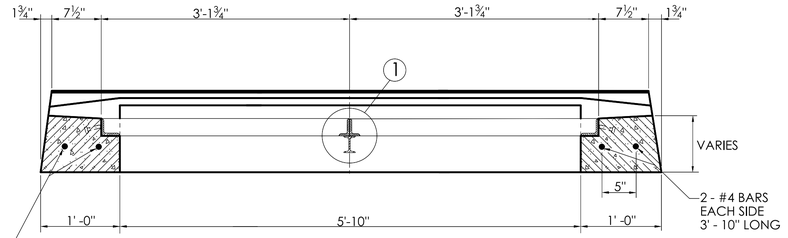
TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II TOP



TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE II TOP

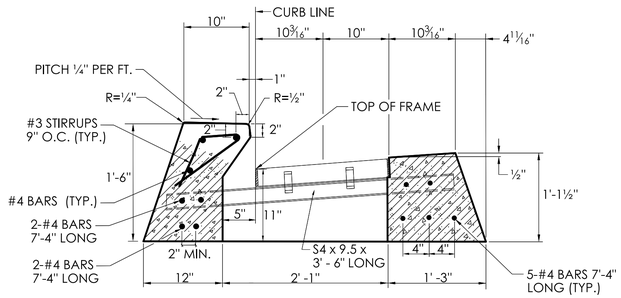


TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE II TOP PLAN



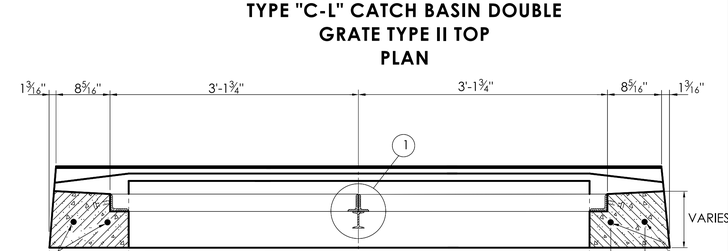
TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II TOP

SECTION A



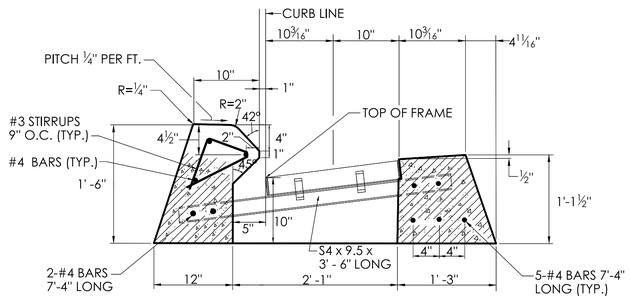
TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II TOP FOR 6" CONCRETE CURBING OR 6" STONE CURBING

SECTION B



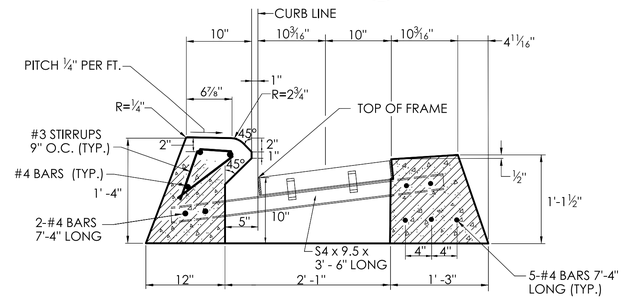
TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE II TOP

SECTION C



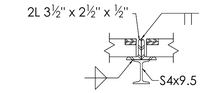
TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II TOP FOR 6" BITUMINOUS CONCRETE LIP CURBING

SECTION B

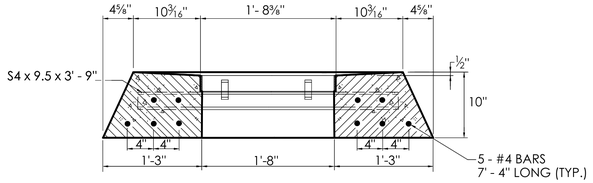


TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II TOP FOR 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING

SECTION B



DETAIL 1

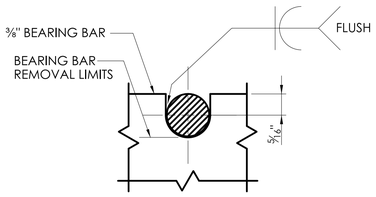


TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE II TOP

SECTION D

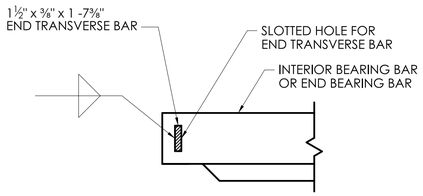
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.10.05 14:18:19-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.09 13:53:51-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE II TOPS	STANDARD SHEET NO.: HW- 586_07c

PLOTTED DATE: 9/21/2022

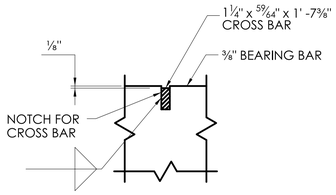


NOTE:
⅝" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

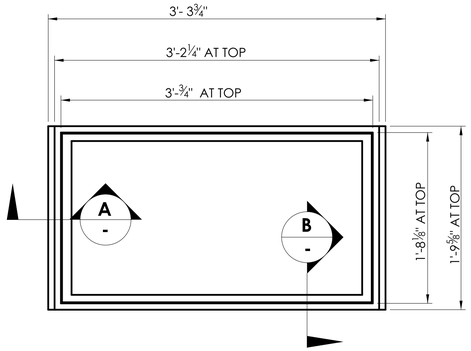
ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A



END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A AND B



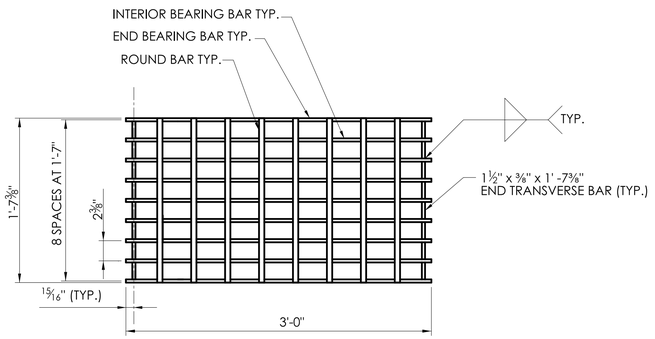
CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B



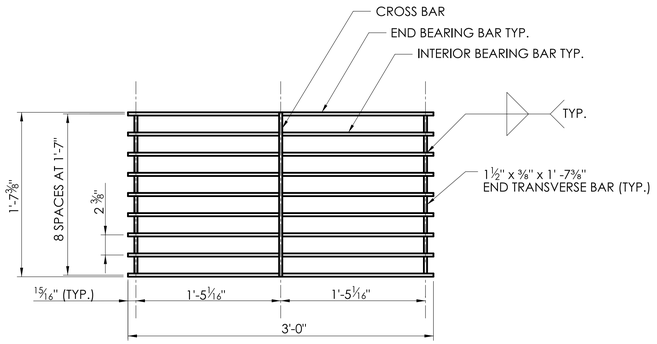
PLAN

GENERAL NOTES:

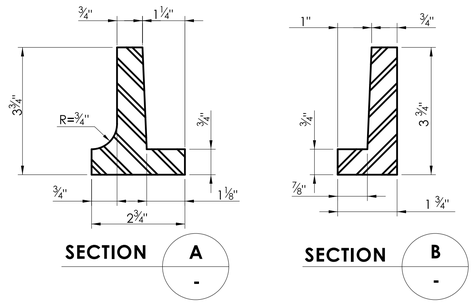
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. DO NOT GALVANIZE CAST IRON FRAMES.
5. DIMENSIONAL TOLERANCES SHALL BE ± 3/16".
6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



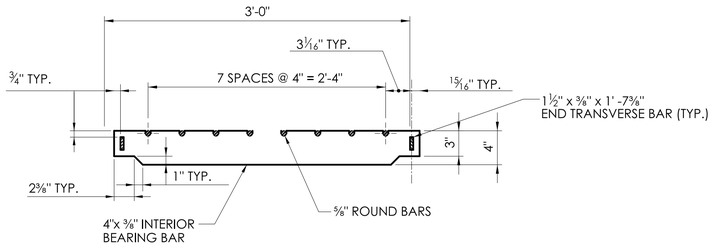
PLAN



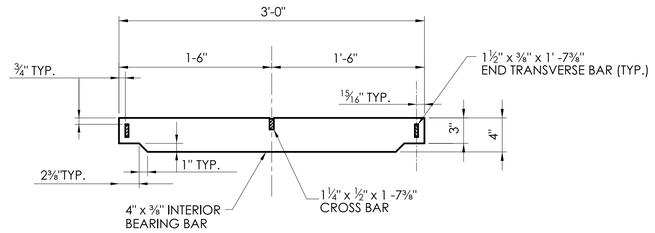
PLAN



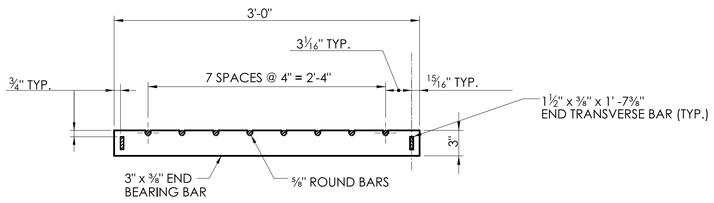
CAST IRON FRAME ALTERNATE



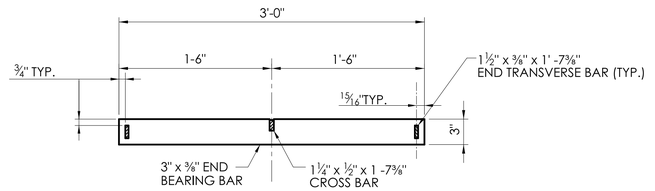
ELEVATION- INTERIOR BEARING BAR



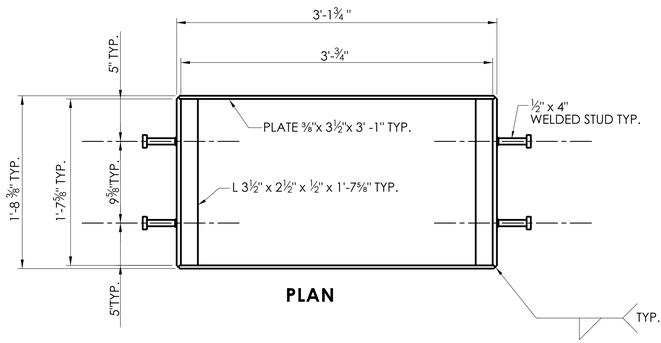
ELEVATION- INTERIOR BEARING BAR



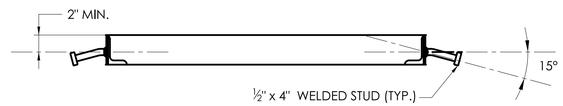
ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A



ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B



PLAN



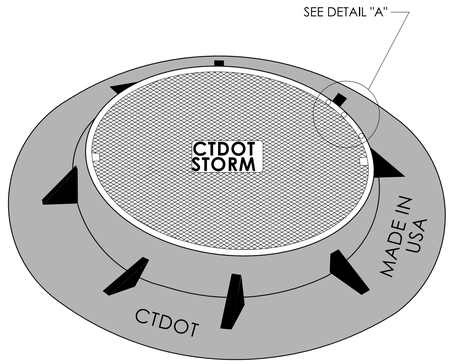
WELDED STUD ANCHOR DETAILS
STEEL FRAME

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.10.05 14:19:16-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.09 14:00:56-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CATCH BASIN FRAMES AND GRATES	STANDARD SHEET NO.: HW- 586_08

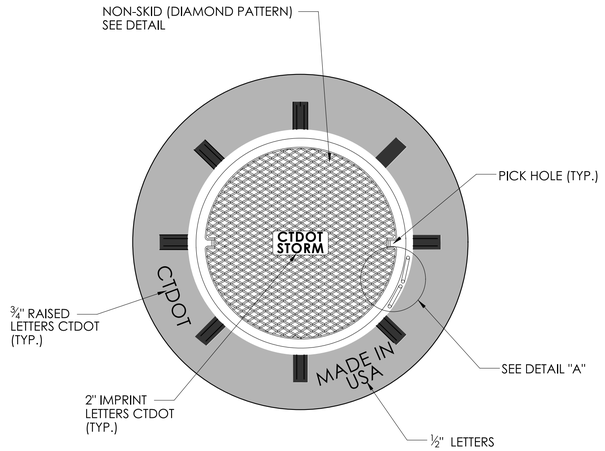
PLOTTED DATE: 9/21/2022

GENERAL NOTES:

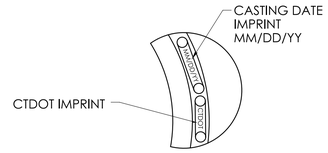
1. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
2. CASTING DATE SHALL BE INDICATED ON EACH: FRAME (SEE DETAIL A) AND COVER (PLACED ON UNDERSIDE).



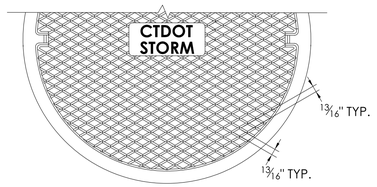
MANHOLE FRAME AND COVER



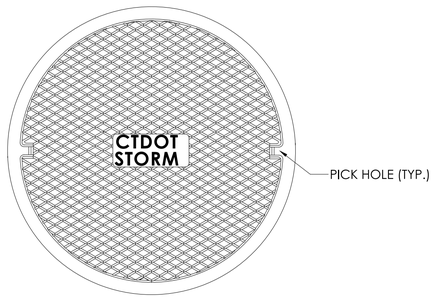
PLAN



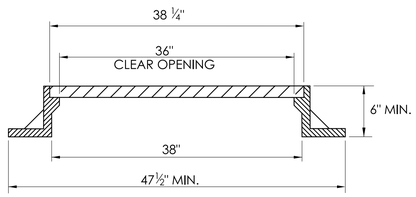
DETAIL "A"



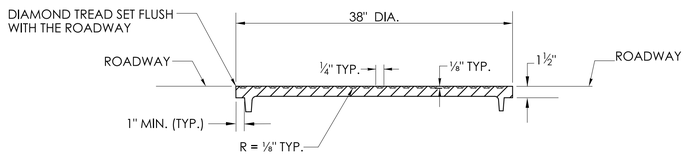
DIAMOND PATTERN PLAN



MANHOLE COVER PLAN



MANHOLE FRAME AND COVER



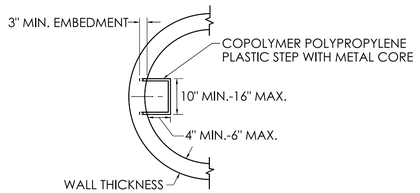
MANHOLE COVER WITH DIAMOND PATTERN

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.10.12 08:59:37-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.02 10:23:32-04'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: MANHOLE FRAME AND COVER	STANDARD SHEET NO.: HW-586_10a

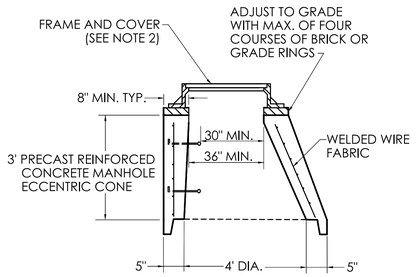
PLOTTED DATE: 10/12/2022

GENERAL NOTES:

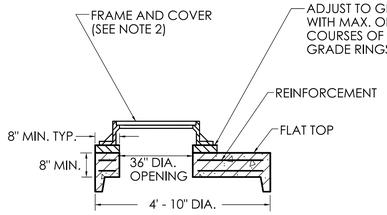
1. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE.
2. SEE SHEETS HW-586_10a, AND HW-586_10b FOR MANHOLE FRAME, GRATE AND COVER DETAIL.



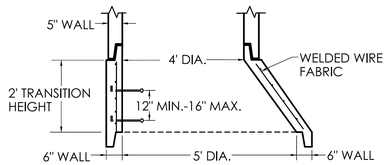
STEP DETAIL



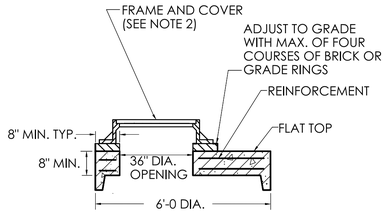
ECCENTRIC CONE SECTION



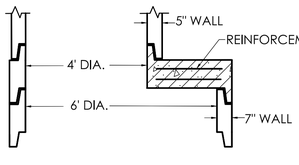
FLAT SLAB TOP FOR RISER SECTION



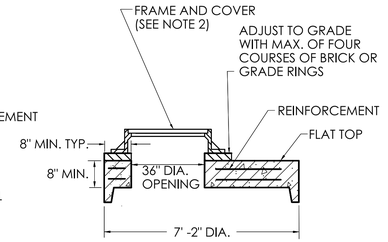
TRANSITION SECTION



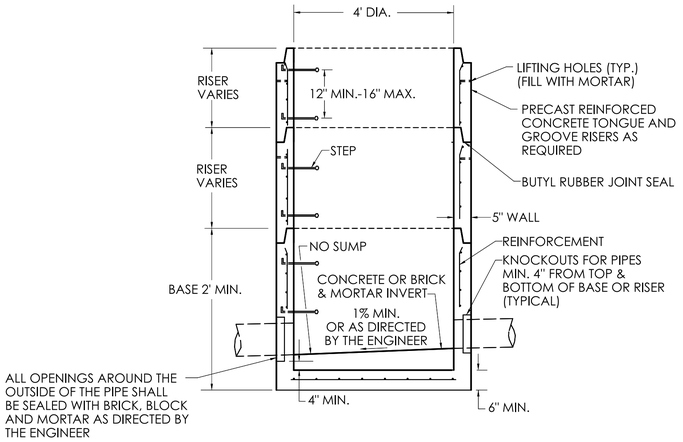
FLAT SLAB TOP FOR RISER SECTION



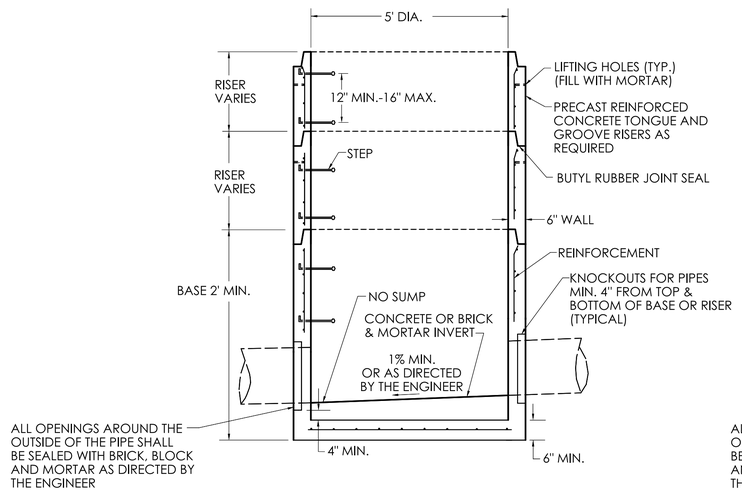
REDUCER SECTION



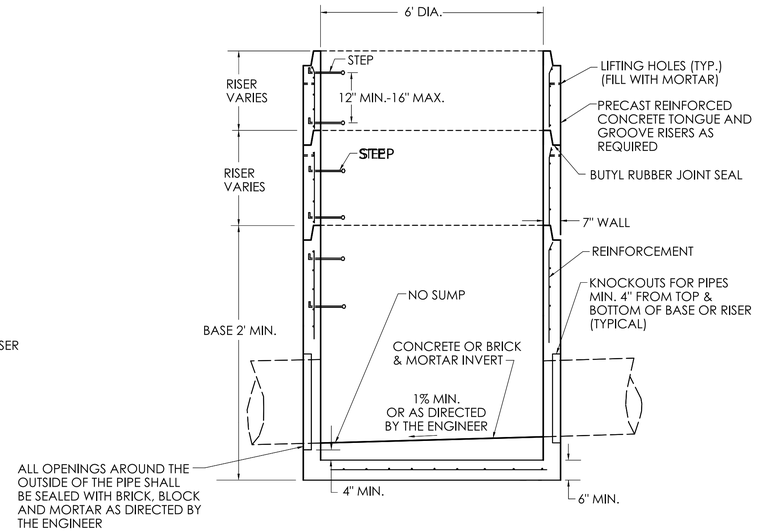
FLAT SLAB TOP FOR RISER SECTION



4' DIAMETER REINFORCED PRECAST CONCRETE MANHOLE SECTION



5' DIAMETER REINFORCED PRECAST CONCRETE MANHOLE SECTION



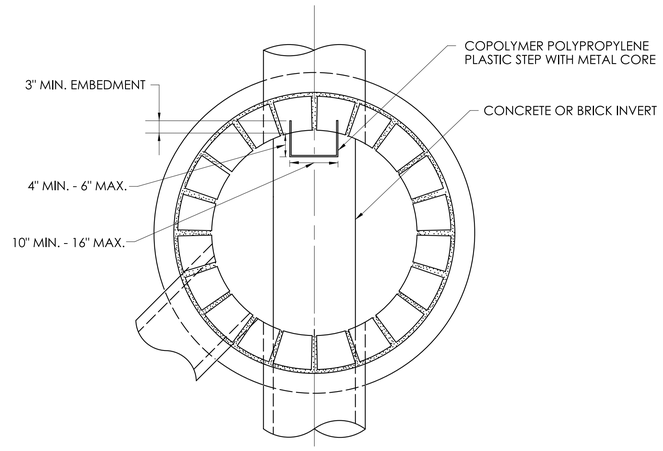
6' DIAMETER REINFORCED PRECAST CONCRETE MANHOLE SECTION

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:36:19-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 11:44:21-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: REINFORCED PRECAST CONCRETE MANHOLE / STANDARD SHEET NO.: HW- 586_10c

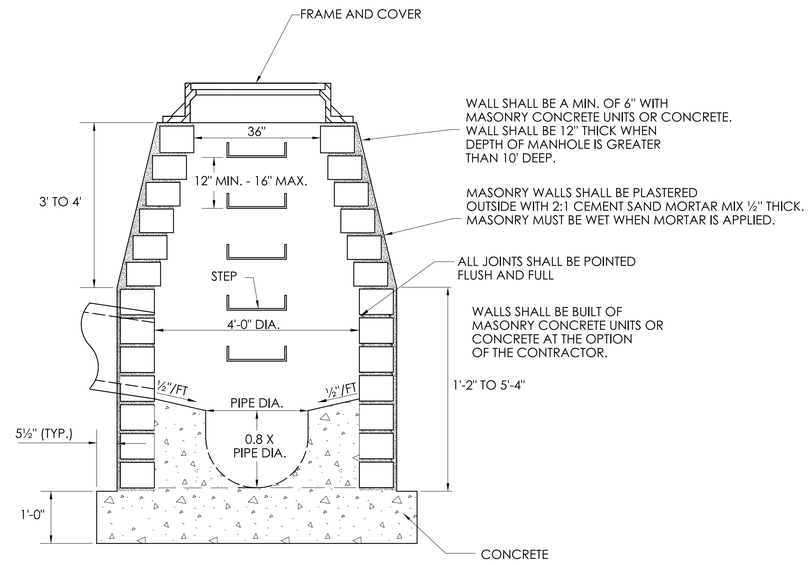
PLOTTED DATE: 9/21/2022

GENERAL NOTES:

1. SEE SHEET NO. HW-586_10a OR HW-586_10b FOR MANHOLE FRAME, GRATE AND COVER DETAIL.



PLAN



MANHOLE SECTION

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Digitally signed by Leo Fontaine, P.E.
Date: 2022.09.27 14:36:40-04'00'

APPROVED BY:
Digitally signed by Calabrese, Michael
Date: 2022.11.08 11:50:05-05'00'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

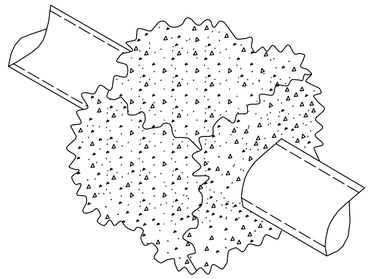
STANDARD SHEET TITLE:
MANHOLE NON - PRECAST CONCRETE UNIT

STANDARD SHEET NO.:
HW-586_10d

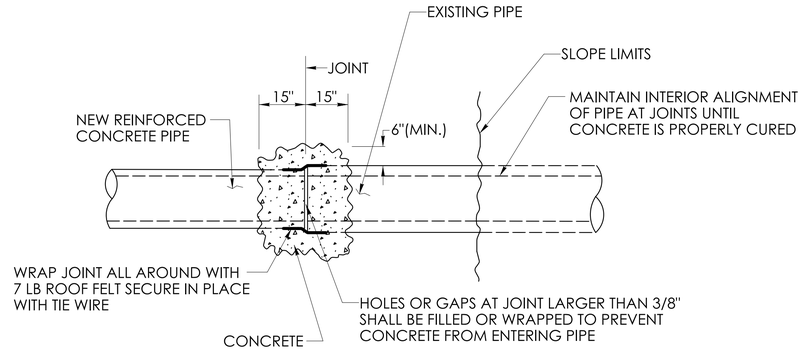
PLOTTED DATE: 9/23/2022

GENERAL NOTES:

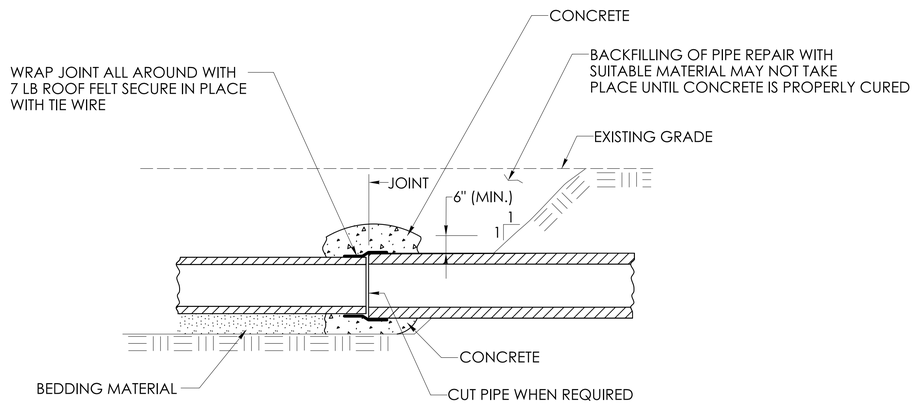
1. "CONCRETE PIPE CONNECTION" IS INTENDED FOR USE WHERE A REINFORCED CONCRETE PIPE REPAIR OR MODIFICATION IS NEEDED SOMEWHERE WITHIN A PIPE RUN WHERE A BELL/SPIGOT JOINT CANNOT BE ACHIEVED.
2. MAINTAIN INTERIOR ALIGNMENT OF PIPE AT JOINTS UNTIL CONCRETE IS PROPERLY CURED.
3. BACKFILL OF PIPE REPAIR WITH SUITABLE MATERIAL MAY NOT TAKE PLACE UNTIL THE CONCRETE IS PROPERLY CURED.
4. CONTRACTOR SHALL MAINTAIN LINE AND GRADE OF PIPE REPAIR OR MODIFICATION BY METHODS APPROVED BY THE ENGINEER
5. HOLES OR GAPS AT JOINT LARGER THAN ⅜" SHALL BE FILLED OR WRAPPED TO PREVENT CONCRETE FROM ENTERING THE PIPE.



CONCRETE PIPE AT THE JOINT



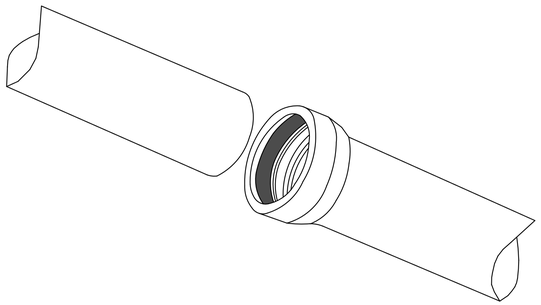
PLAN



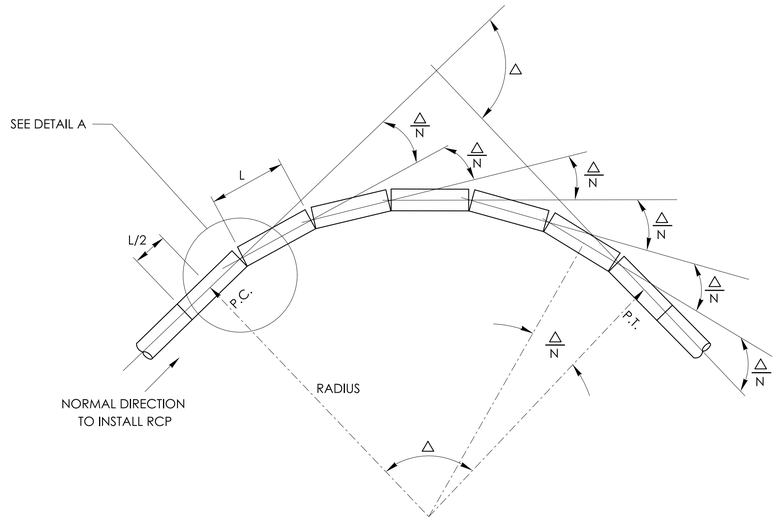
SECTION
CONCRETE PIPE CONNECTION

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:37:04-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 11:49:40-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CONCRETE PIPE CONNECTION SHEET 1	STANDARD SHEET NO.: HW-686_01a

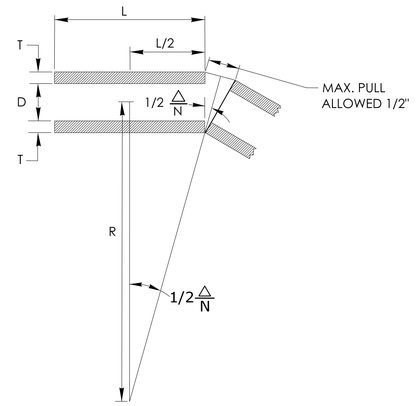
PLOTTED DATE: 9/21/2022



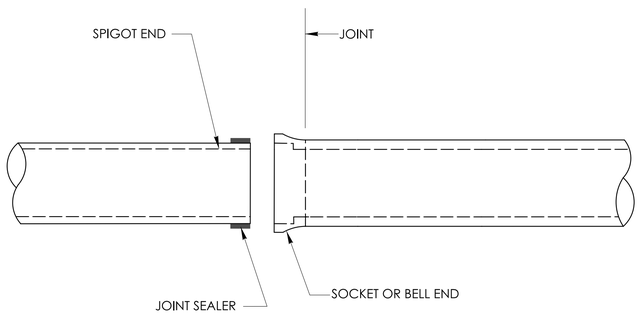
CONCRETE PIPE ASSEMBLY AT THE JOINT



CURVED ALIGNMENT USING DEFLECTED STRAIGHT PIPE FOR MAXIMUM PULL 1/2"



DETAIL A
DEFLECTING STANDARD FOR RCP



STANDARD CONNECTION FOR CONCRETE PIPE

MINIMUM RADII FOR RCP PIPE ON CURVED ALIGNMENT

DIAMETER (D)	MINIMUM RADII USING 8' PIPE LENGTHS
IN.	FT.
15	337
18	392
21	401
24	452
30	617
36	729
42	842
48	953
54	1066
60	1178
72	1403

NOTES:

1. N IS THE NUMBER OF PIPE SEGMENTS
2. D IS PIPE DIAMETER
3. L IS LENGTH OF PIPE
4. T IS PIPE THICKNESS
5. △ IS THE DEGREE OF CURVATURE

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Digitally signed by Leo Fontaine, P.E.
Date: 2022.09.27 14:37:24-04'00'

APPROVED BY:
Digitally signed by Calabrese, Michael
Date: 2022.11.08 11:49:11-05'00'

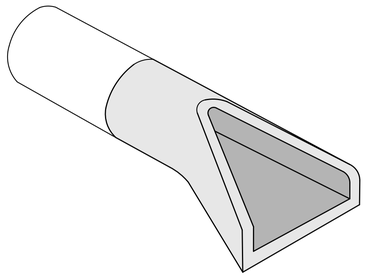
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

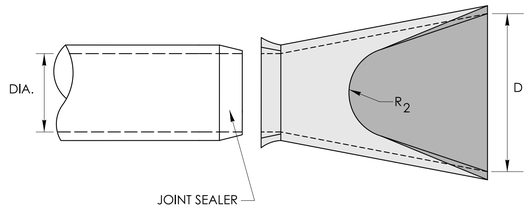
STANDARD SHEET TITLE:
CONCRETE PIPE CONNECTION SHEET 2

STANDARD SHEET NO.:
HW-686_01b

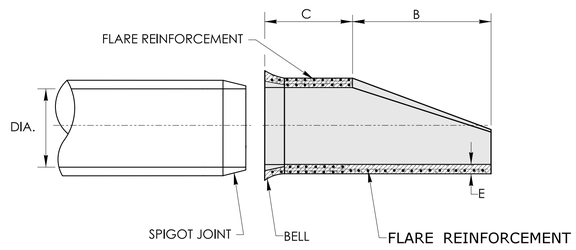
PLOTTED DATE: 9/21/2022



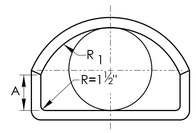
PRECAST CONCRETE PIPE END



PLAN



SECTION



ELEVATION

END SECTION FOR REINFORCED CONCRETE PIPE END								FLARE REINFORCEMENT ONE LAYER ONLY IN CENTER OF WALL	
PIPE DIAMETER INCHES	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	R_1 INCHES	R_2 INCHES	MIN. AREA OF LONGITUDINAL STEEL SQ. IN PER FT.	MIN. AREA OF TRANSVERSE STEEL STEEL SQ. IN PER FT.
12	4	24	48 7/8	24	3	10 1/4	9	0.048	0.048
15	6	27	46	30	3	12 1/2	11	0.054	0.054
18	9	27	46	36	3	15 1/2	12	0.060	0.060
24	9 1/2	43 1/2	30	48	3	16 13/16	14	0.072	0.072
30	12	54	19 3/4	60	3 1/2	18 1/2	15	0.084	0.084
36	15	63	34 3/4	72	4	24 5/16	20	0.096	0.096
42	21	63	35	78	4 1/2	27 1/2	22	0.108	0.108
48	24	72	26	84	5	28 1/2	22	0.120	0.120
54	27	65	35	90	5 1/2	33 1/8	24	0.132	0.132
60	30	60	39	96	6	36 1/16	24	0.144	0.144

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Digitally signed by Leo Fontaine, P.E.
Date: 2022.09.27 14:38:07-04'00'

APPROVED BY:
Digitally signed by Calabrese, Michael
Date: 2022.11.08 11:26:57-05'00'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

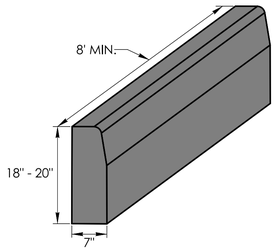
STANDARD SHEET TITLE:
DRAINAGE PIPE ENDS SHEET 2

STANDARD SHEET NO.:
HW-686_02b

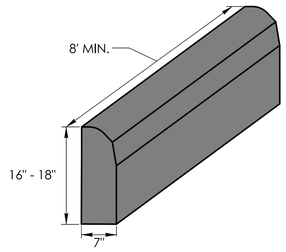
PLOTTED DATE: 9/21/2022

GENERAL NOTE:

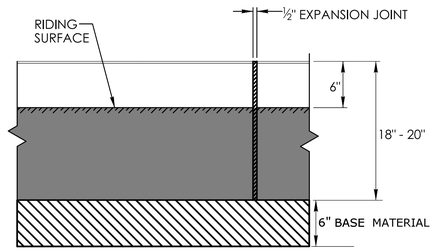
1. PRECAST CONCRETE CURBING MAY BE CAST BY THE MANUFACTURER WITH OPTIONAL LIFTING AND DOWEL BAR HOLES.



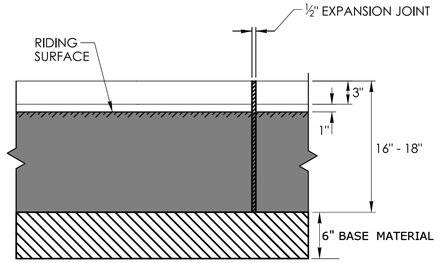
CONCRETE CURBING (6" REVEAL)



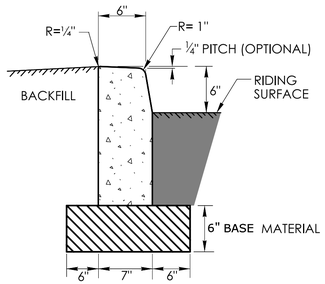
CONCRETE PARK CURBING (4" REVEAL)



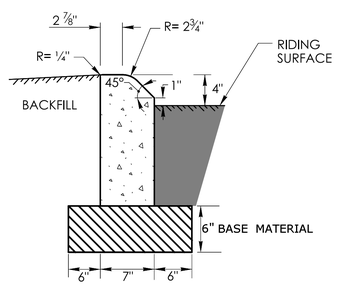
FRONT ELEVATION



FRONT ELEVATION



SECTION



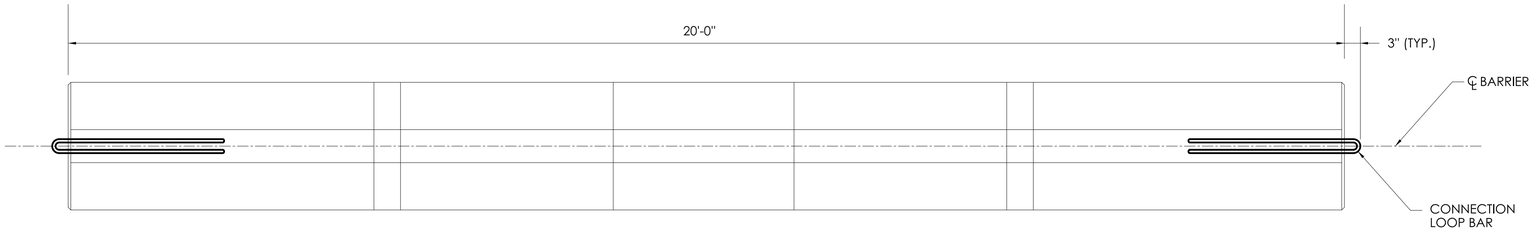
SECTION

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:41:41-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 11:41:25-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CONCRETE CURBNG	STANDARD SHEET NO.: HW- 811_01

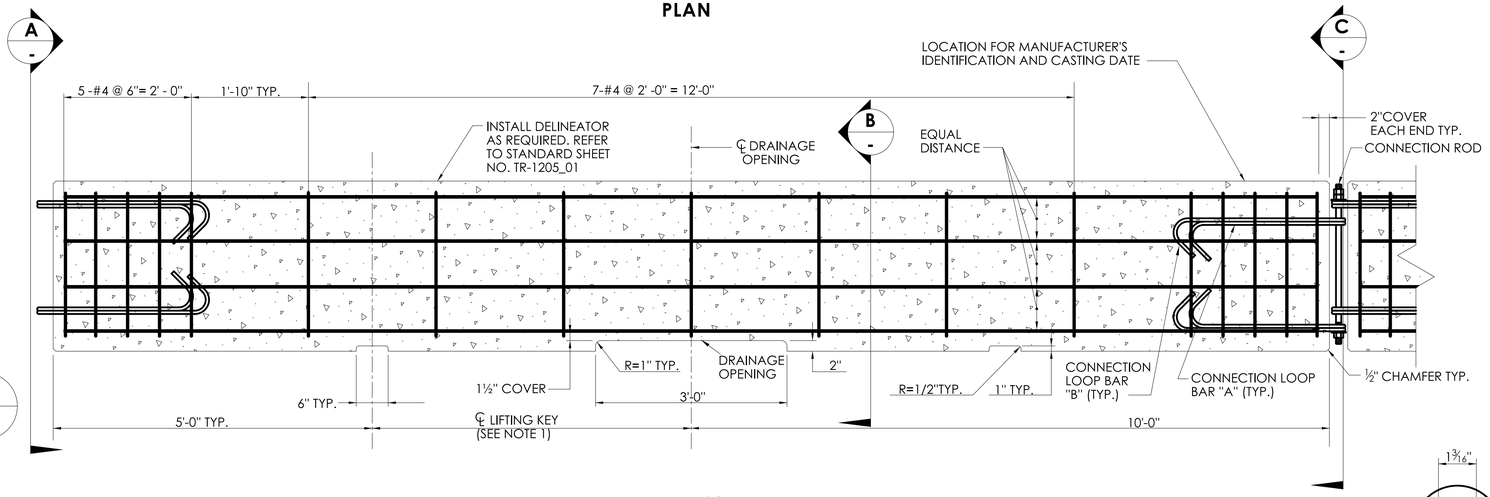
PLOTTED DATE: 9/21/2022

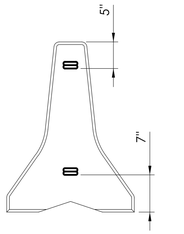
GENERAL NOTES:

1. ALTERNATE DESIGNS FOR LIFTING KEYS, HOLES OR OTHER HANDLING DEVICES MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. EXPECTED PERMANENT DYNAMIC DEFLECTION IS 3'-6" BASED ON TL-3 CRASH TESTS WITH 240' OF TPCBC.



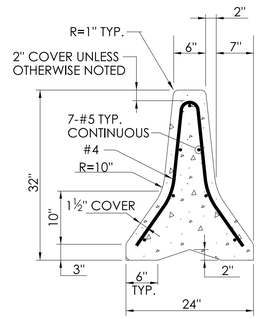
PLAN



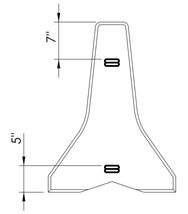


SECTION A -

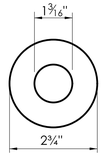
ELEVATION



SECTION B -

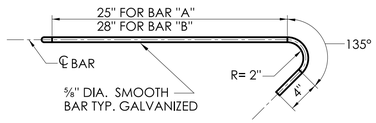


END VIEW C -



WASHER DETAIL

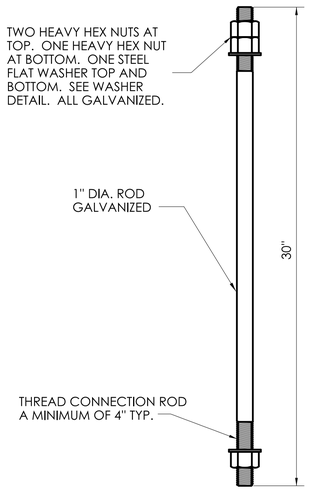
PLAN



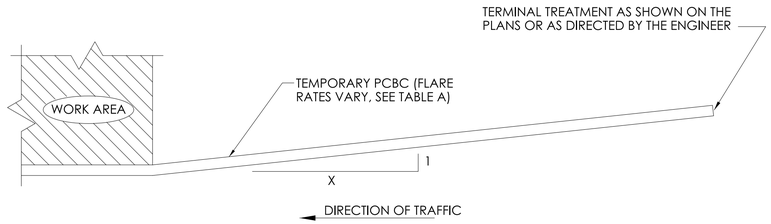
ELEVATION

BAR " A " = 6' - 0" TOTAL
BAR " B " = 6' - 6" TOTAL

CONNECTION LOOP BAR



CONNECTION ROD



PLAN - TYPICAL INSTALLATION

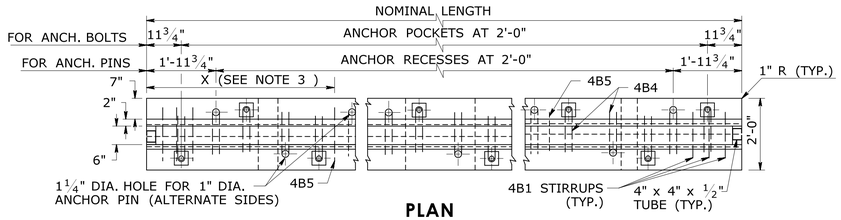
TABLE A FLARE RATES

* SPEED	FLARE RATE (X : 1)
≤ 30MPH	4 : 1
> 30MPH BUT < 45MPH	6 : 1
≥ 45MPH NON-LIMITED ACCESS HIGHWAYS	8 : 1
ALL LIMITED ACCESS HGHWAYS	10 : 1

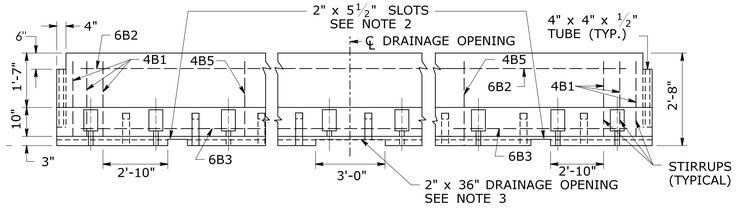
* DESIGN SPEED THROUGH THE WORK AREA.

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 15:00:00-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 10:22:53-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: TEMPORARY PRECAST CONCRETE BARRIER CURB	STANDARD SHEET NO.: HW- 822_01

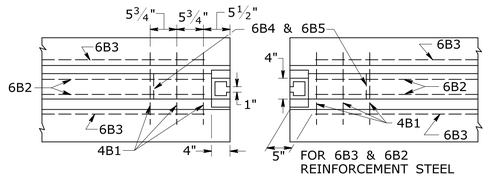
PLOTTED DATE: 9/21/2022



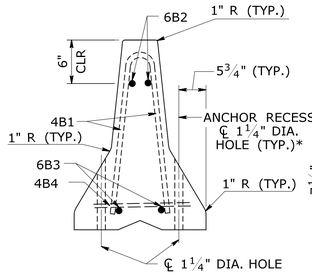
PLAN



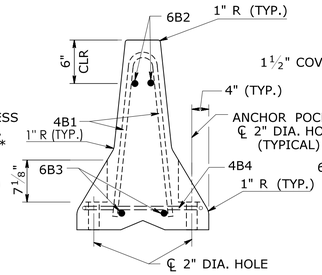
ELEVATION



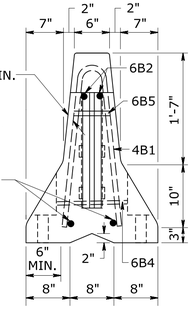
PLAN - BARRIER END



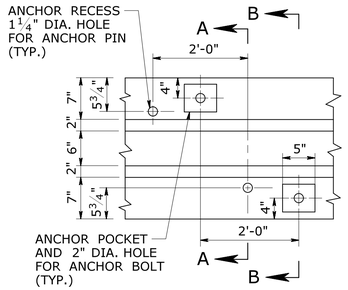
SECTION A-A



SECTION B-B

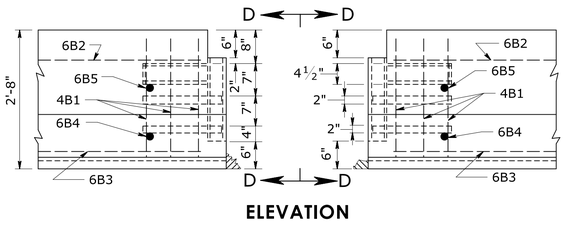


SECTION D-D



PLAN - ANCHOR RECESS/POCKET

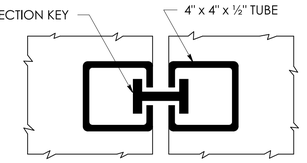
SEE NOTE 5



ELEVATION

GENERAL NOTES:

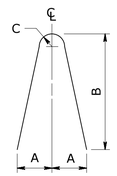
1. CONCRETE CLEAR COVER FOR REINFORCEMENT STEEL IS 1½" (MIN.).
2. 2" x 5½" SLOTS - TWO REQUIRED IN SECTIONS 12 FEET AND GREATER. ONE REQUIRED IN 8 FOOT AND 10 FOOT SECTIONS.
3. 2" x 36" DRAINAGE OPENING IS ONLY REQUIRED FOR TEMPORARY TRAFFIC BARRIER UNITS OF 20 FEET IN LENGTH, LOCATED IN MIDDLE OF THE BARRIER UNIT.
4. A TEMPORARY TRAFFIC BARRIER UNIT IS 20 FEET IN LENGTH; HOWEVER OTHER LENGTHS MAY BE USED TO MEET FIELD CONDITIONS. THE NUMBER AND PLACEMENT OF THE 4B4 AND 4B5 REINFORCEMENT STEEL WILL VARY WITH THE LENGTH OF THE BARRIER UNIT AS SHOWN ON THE TABLE OF VARIABLE REINFORCEMENT STEEL. THE 6B2 AND 6B3 REINFORCEMENT STEEL TO BE PLACED 10 INCHES SHORTER THAN THE NOMINAL LENGTH OF THE BARRIER UNITS.
5. ANCHOR RECESS HOLES OR ANCHOR POCKETS WITH ASSOCIATED REINFORCEMENT STEEL ARE ONLY REQUIRED FOR THE ASSOCIATED TEMPORARY TRAFFIC BARRIER (PINNED) OR TEMPORARY TRAFFIC BARRIER (BOLTED).



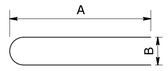
KEY IN PLACE

TEMPORARY TRAFFIC BARRIER

TABLE OF VARIABLE REINFORCEMENT STEEL			
NOMINAL LENGTH OF BARRIER UNIT	MARK	"X"	NO. EACH SECTION
20'	4B4	N.A.	19
20'	4B5	6'-11"	2
18'	4B4	N.A.	17
18'	4B5	6'-5"	2
16'	4B4	N.A.	15
16'	4B5	5'-11"	2
14'	4B4	N.A.	13
14'	4B5	7'-0"	1
12'	4B4	N.A.	11
12'	4B5	6'-0"	1
10'	4B4	N.A.	9
10'	4B5	5'-0"	1
8'	4B4	N.A.	7
8'	4B5	-	0
"X" DISTANCE FROM END OF BARRIER TO 4B5 REINFORCEMENT STEEL			

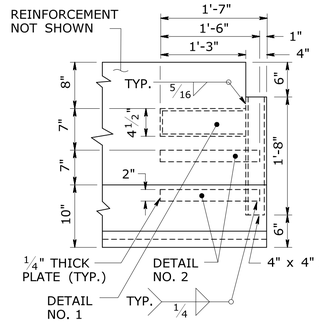


TYPE "I" REINFORCEMENT STEEL

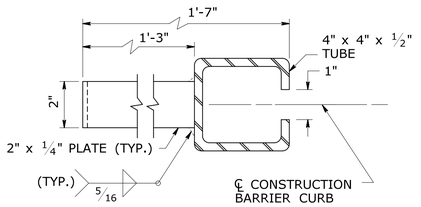


TYPE "II" REINFORCEMENT STEEL

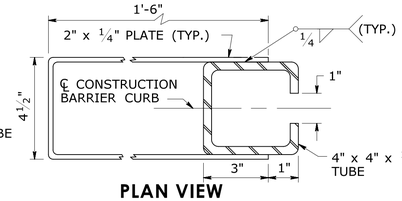
REINFORCEMENT STEEL LIST (EACH BARRIER SECTION)								
MARK	SIZE	NUMBER IN EACH SECTION	LENGTH	TYPE	A	B	C	LOCATION
4B1	#4	6	4'-11"	I	5"	26"	2"	STIRRUPS
4B4	#4	SEE NOTE 4	3'-1"	II	15½"	4"		STIRRUPS
4B5	#4	SEE NOTE 4	4'-11"	I	5"	26"	2"	STIRRUPS
6B2	#6	2	SEE NOTE 4	STR.				LONGITUDINAL (TOP) NORMAL SECTION
6B3	#6	2	SEE NOTE 4	STR.				LONGITUDINAL (BOTTOM) NORMAL SECTION
6B4	#6	2	1'-2"	STR.				TRANSVERSE (BOTTOM) NORMAL SECTION
6B5	#6	2	0'-6"	STR.				TRANSVERSE (TOP) NORMAL SECTION



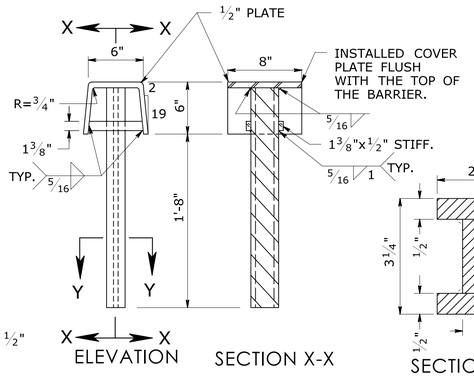
ELEVATION



PLAN VIEW DETAIL NO. 1



PLAN VIEW DETAIL NO. 2



ELEVATION — SECTION X-X — SECTION Y-Y

CONNECTION KEY

TEMPORARY TRAFFIC BARRIER CONNECTION DETAILS

MASH 2016 COMPLIANT
APPROVAL ID. 2021-01

NOT TO SCALE

SIGNATURE BLOCK:
OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

SUBMITTED BY:
Digitally signed by Leo Fontaine, P.E.
Date: 2022.09.27 15:00:31-04'00'

APPROVED BY:
Digitally signed by Calabrese, Michael
Date: 2022.11.08 10:22:10-05'00'

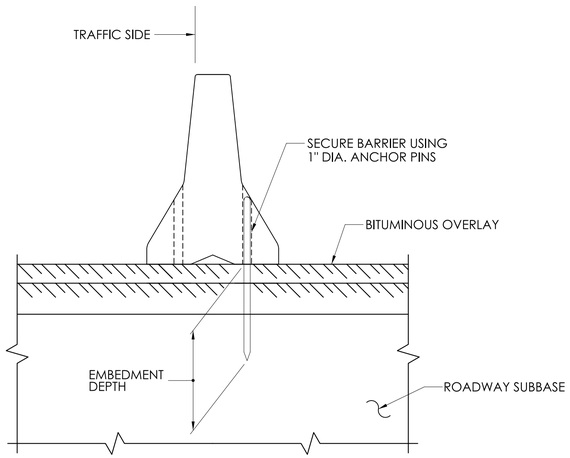
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

STANDARD SHEET TITLE:
TEMPORARY TRAFFIC BARRIER - DETAILS

STANDARD SHEET NO.:
HW- 822_02a

PLOTTED DATE: 9/21/2022



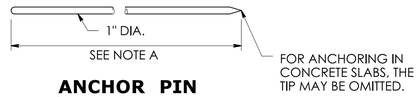
END VIEW - TEMPORARY TRAFFIC BARRIER (PINNED)

SEE NOTES 2 & 3 FOR PIN OPTIONS
ROADSIDE APPLICATION SHOWN

NOTE A

ENSURE THAT THE LENGTH OF THE ANCHOR PIN IS SUCH THAT THE FOLLOWING MINIMUM EMBEDMENT LENGTH IS OBTAINED:

(A) INTO CONCRETE PAVEMENT 0'-5"
(B) INTO FLEXIBLE PAVEMENT 1'-6"
(C) INTO UNPAVED AREA 2'-6"



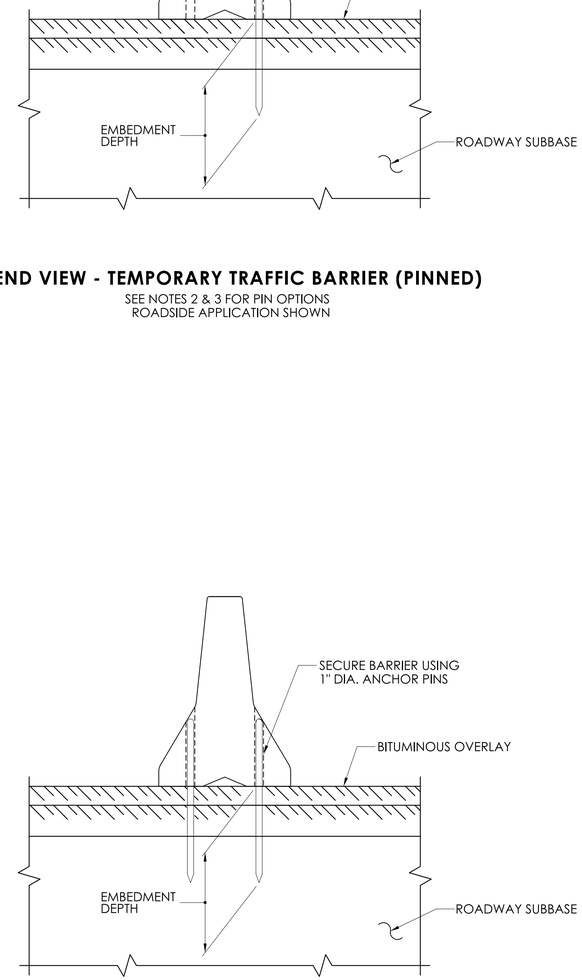
ANCHOR PIN

GENERAL NOTES:

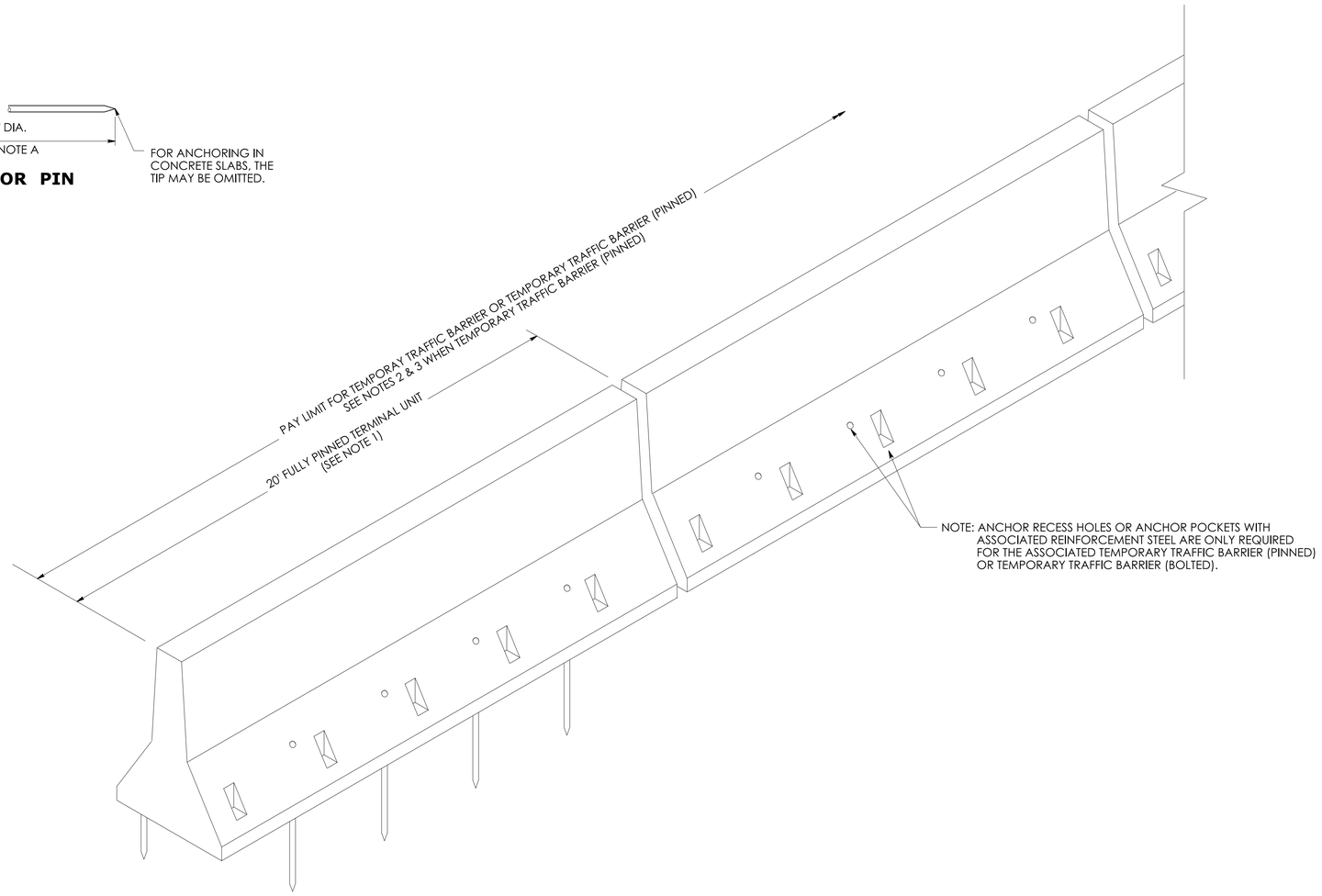
1. THE FIRST AND LAST UNIT OF A TEMPORARY TRAFFIC BARRIER LAYOUT SHALL BE 20 FOOT IN LENGTH AND FULLY PINNED (9 PINS) ON BOTH SIDES.
2. TEMPORARY TRAFFIC BARRIER (PINNED) SHALL ONLY BE PINNED ON THE WORK AREA SIDE OF THE BARRIER AFTER THE REQUIRED LENGTH OF BARRIER IS PLACED.
3. TEMPORARY TRAFFIC BARRIER (PINNED) SHALL BE FULLY PINNED (9 PINS) IN LOCATIONS WHERE THE BARRIERS ARE DIVIDING OPPOSING TRAFFIC.
4. ALL ANCHOR PINS INSTALLED SHALL NOT PROJECT BEYOND THE TEMPORARY TRAFFIC BARRIER'S SURFACE.
5. INSTALL DELINEATORS AS REQUIRED, REFER TO TRAFFIC STANDARD SHEET NO. TR-1205_01.
7. TEMPORARY TRAFFIC BARRIER DESIGN DEFLECTION DISTANCES BY TYPE;

BARRIER TYPE	**DEFLECTION
UNPINNED	40"
PINNED	20"

** MASH STANDARD DEFLECTION CAUSED BY 5,000 LB VEHICLE TRAVELING 62 MPH IMPACTING THE BARRIER AT 25 DEGREE ANGLE.



END VIEW - TERMINAL UNIT



TEMPORARY TRAFFIC BARRIER

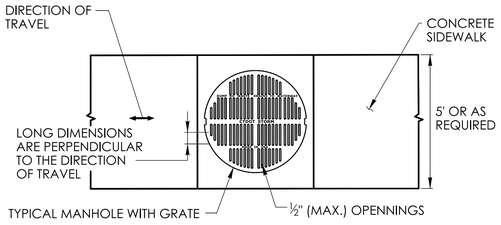
MASH 2016 COMPLIANT
APPROVAL ID. 2021-01

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 15:00:15-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 10:20:44-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: TEMPORARY TRAFFC BARRIER AND TEMPORARY TRAFFC BARRIER (PINNED)	STANDARD SHEET NO.: HW- 822_02c

PLOTTED DATE: 9/21/2022

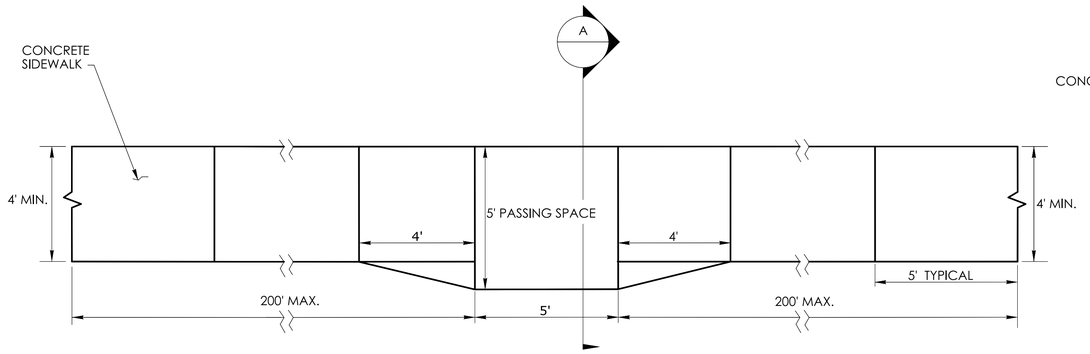
GENERAL NOTES:

1. SEE CONCRETE SIDEWALK RAMPS GUIDE SHEETS FOR PEDESTRIAN RAMP TYPES.
2. ALL CURBING SHALL BE INSTALLED AS EITHER PRECAST OR CAST IN PLACE AS DIRECTED.



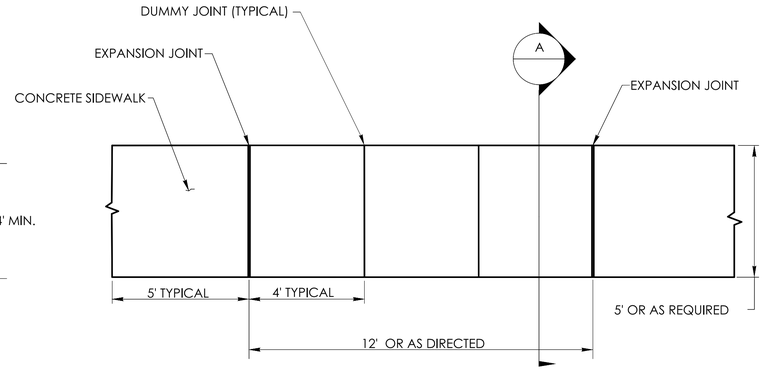
PEDESTRIAN ACCESS ROUTE OVER A MANHOLE WITH GRATE

1. HORIZONTAL OPENINGS IN GRATES AND JOINTS MUST NOT BE MORE THAN ½ INCH
2. ELONGATED OPENINGS IN GRATES MUST BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DIRECTION OF TRAVEL

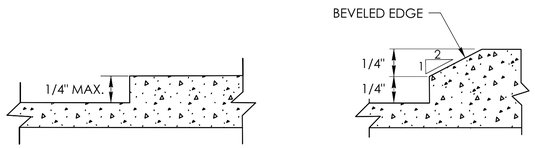


5' PASSING SPACE FOR 4' WIDE SIDEWALK PLAN

PASSING SPACES SHALL BE PROVIDED AT INTERVALS OF 200' MAXIMUM FOR SIDEWALKS LESS THAN 5' IN WIDTH

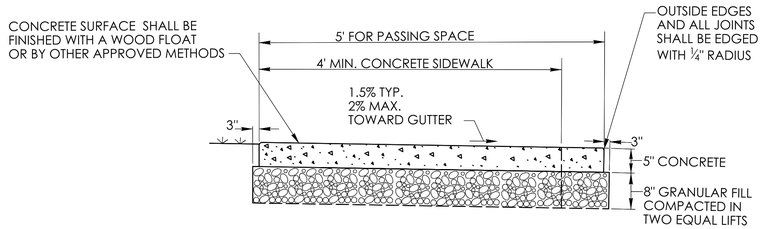


5' WIDE SIDEWALK PLAN



VERTICAL SURFACE DISCONTINUITIES

VERTICAL SURFACE DISCONTINUITIES MUST BE BEVELED TO A HEIGHT NOT GREATER THAN ¼ INCH. THE BEVEL MUST BE THE ENTIRE WIDTH OF THE DISCONTINUITY



5' PASSING SPACE FOR 4' WIDE SIDEWALK

SECTION A

	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 15:15:58-04'00'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 09:42:54-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CONCRETE SIDEWALKS / STANDARD SHEET NO.: HW-921_01

PLOTTED DATE: 9/23/2022

ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT # L004-0001

	SHEET NO.	TITLE	APPROVAL DATE
☐	TR-1000_01	GENERAL CLAUSES (TEST PROCEDURES)	1/2014
☑	TR-1001_01	TRENCHING & BACKFILLING, ELECTRICAL CONDUIT	4/2012
☐	TR-1002_01	TRAFFIC CONTROL FOUNDATIONS	1/2014
☐	TR-1010_01	CONCRETE HANDHOLE	4/2014
☐	TR-1102_01	PEDESTALS, PEDESTRIAN SIGNALS	4/2012
☐	TR-1105_01	TRAFFIC SIGNALS AND CABLE ASSIGNMENTS	8/2018
☐	TR-1107_01	PEDESTRIAN PUSH BUTTON	8/2018
☐	TR-1108_01	CONTROLLERS	5/2013
☐	TR-1111_01	LOOP VEHICLE DETECTOR AND SAWCUT	4/2014
☐	TR-1113_01	CONTROL CABLE	4/2014
☐	TR-1114_01	BONDING & UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAILS	8/2018

	SHEET NO.	TITLE	APPROVAL DATE
☑	TR-1205_01	DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS	8/2018
☑	TR-1208_01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS	8/2018
☑	TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	6/2017
☐	TR-1210_01	PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
☐	TR-1210_02	PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS	OBSOLETE
☐	TR-1210_03	SPECIAL DETAILS & TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS	OBSOLETE
☑	TR-1210_04	PAVEMENT MARKING LINES AND SYMBOLS	8/2018
☐	TR-1210_05	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	4/2017
☐	TR-1210_06	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	8/2018
☐	TR-1210_07	PAVEMENT MARKINGS FOR EXIT RAMPS	4/2017
☑	TR-1210_08	PAVEMENT MARKINGS FOR NON FREEWAYS	8/2018
☐	TR-1210_09	PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RR CROSSINGS	4/2017
☑	TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	8/2018
☑	TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	8/2018

STANDARD SHEETS SHALL BE USED WITH STANDARD SPECIFICATIONS

REV.	DATE	REVISION DESCRIPTION
4	4-2017	REMOVED TR-1210_01 TO TR-1210_03. ADDED TR-1210_04 TO TR-1210_09
3	4-2014	REMOVED TR-1111_02.
2	1-2014	REMOVED TR-1103_01.
1	4-2012	RENUMBERED TR-1107_02 TO TR-1114_01. REMOVED TR-1116_01.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/16/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD_DGN.DGN Model: TR-01-STD_INDEX

SUBMITTED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

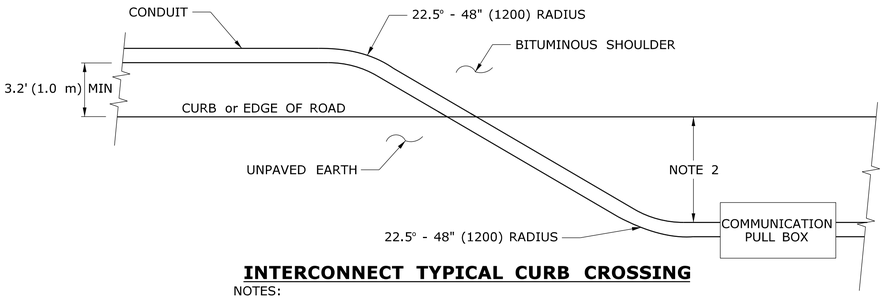
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

TRAFFIC STANDARD SHEET INDEX

STANDARD SHEET NO.:

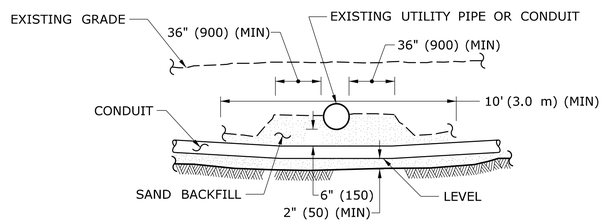
TR-STD_INDEX



INTERCONNECT TYPICAL CURB CROSSING

NOTES:

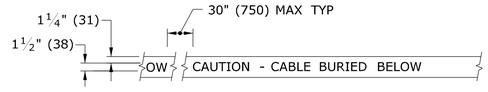
1. RESTORE AREAS DISTURBED BY TRENCH TO ORIGINAL CONDITION.
2. INSTALL PULL BOX A MINIMUM OF 10' (3.0 m) FROM CURB UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY ENGINEER.



CROSSING UNDER EXISTING UTILITY

NOTES:

1. WHEN ENCOUNTERED AT APPROXIMATELY THE SAME DEPTH, CROSS BENEATH.
2. PROTECT & SUPPORT EXPOSED EXISTING UTILITY.

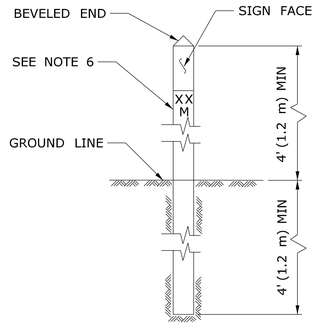


DETECTABLE WARNING TAPE

NOTE:

STANDARD SPECIFICATIONS, ARTICLE: 1.05.15

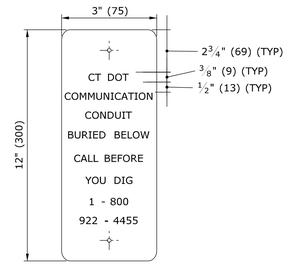
1. TAPE COLORS:
   COMMUNICATION - ORANGE BACKGROUND / BLACK LEGEND
   POWER - RED BACKGROUND / BLACK LEGEND



INTERCONNECT CONDUIT IDENTIFICATION POST

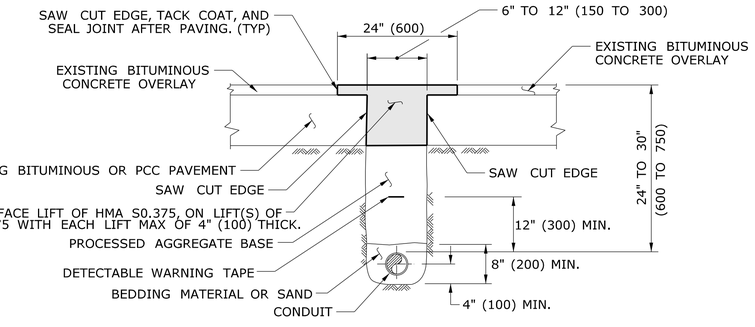
NOTES:

1. 4" x 4" (100 x 100) NOMINAL, PRESSURE TREATED WOOD POST.
2. ATTACH SIGN TO POST WITH ¼" x 1¼" (6 x 31) STAINLESS STEEL LAG SCREW WITH NYLON WASHER ON FACE OF SIGN.
3. SIGN COLORS: BACKGROUND - ORANGE (RETROREFLECTIVE) LEGEND - BLACK (OPAQUE).
4. INSTALL POST APPROX 24" (600) FROM RMC IN VICINITY OF EACH PULL BOX.
5. INSTALL POSTS BETWEEN PULL BOXES, APPROX 10' (3.0 m) OFF CURB. SPACE POSTS 1500'± (460 m±) APART.
6. PERMANENTLY ATTACH STAINLESS STEEL NUMBERS INDICATING DISTANCE TO TRENCH IN FEET (METERS) CONTAINING COMMUNICATION CABLE. ATTACH NUMBERS TO SIDE OF POST FACING CONDUIT. INCLUDE "M" SUFFIX IF METERS.



SIGN FACE DETAIL

SIGN # 41-4669

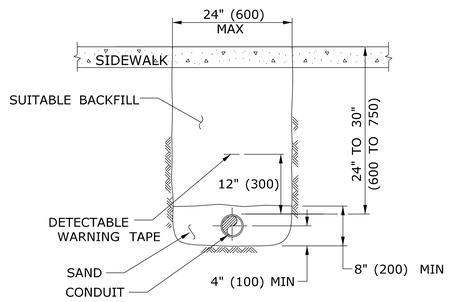


PAVEMENT - BITUMINOUS CONCRETE OR OVERLAYED PORTLAND CEMENT CONCRETE

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 3.04 & 4.06.03

1. TOTAL HOT MIX ASPHALT (HMA) THICKNESS TO MATCH EXISTING BITUMINOUS CONCRETE AND PORTLAND CEMENT CONCRETE (PCC) THICKNESS.
2. WHEN ALLOWED BY ENGINEER, USE CONTROLLED LOW STRENGTH MATERIAL (CLSM) AS BEDDING MATERIAL. TOP OF CLSM AT LEAST 20" (500) BELOW SURFACE.

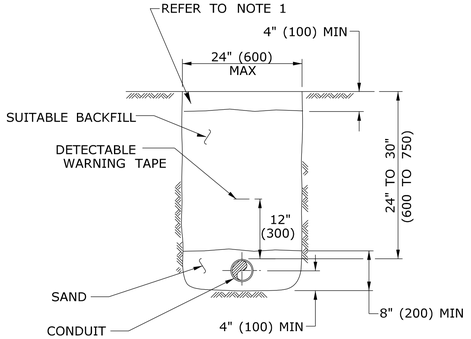


SIDEWALK

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 9.21 & 9.22

1. WHERE CONCRETE SIDEWALK DAMAGED OR CUT, REPLACE THE ENTIRE SECTION BETWEEN JOINTS. REPLACEMENT SIDEWALK IS PAID FOR AT THE CONTRACT UNIT PRICE FOR "CONCRETE SIDEWALK".



EARTH

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 9.50

1. IN MOWED AREAS: PLACE TOPSOIL, FERTILIZER, SEED, & MULCH.

GENERAL NOTES:

1. TOP OF CONDUIT NO LESS THAN 24" (600) DEEP.
2. COMPACT BACKFILL IN ≤ 6" (150) LIFTS. HAND COMPACTION NOT PERMITTED.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

-- -- RMC (RIGID METAL CONDUIT)

REV.	DATE	REVISION DESCRIPTION
1	4-2012	REVISED BITUMINOUS CONRCETE TO HMA, & MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/14/2012

DIMENSIONS ARE IN ENGLISH (.") & METRIC UNITS (mm).
METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1001_01

SUBMITTED BY: NAME/DATE/TIME:
Tracy L. Fogarty 2012.05.01 12:54:42-04'00'

APPROVED BY: NAME/DATE/TIME:
Timothy M. Wilson 2012.05.09 10:23:34-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

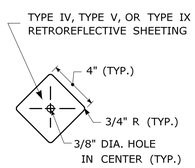
TRENCHING & BACKFILLING, ELECTRICAL CONDUIT

STANDARD SHEET NO.:

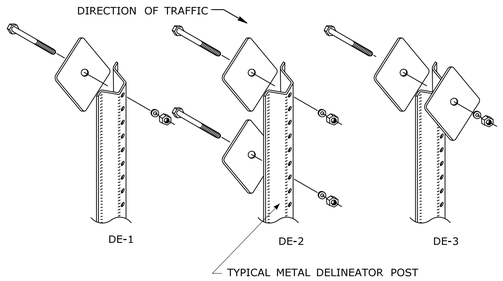
TR-1001_01

DELINEATORS DE-1, DE-2, DE-3

INSTALLATION ON DELINEATOR POSTS



SIGN #51-5028 WHITE
SIGN #51-5029 YELLOW



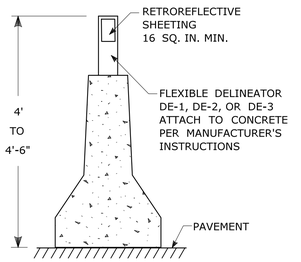
COLORS: - YELLOW OR WHITE.

DELINEATORS - .0625" THK. ALUMINUM ALLOY.

FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV, TYPE V, OR TYPE IX RETROREFLECTIVE SHEETING.

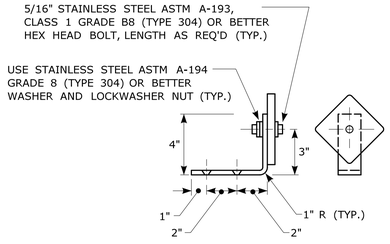
DELINEATORS SHALL BE FASTENED WITH 5/16" STAINLESS STEEL ASTM A-193 CLASS 1, GRADE B8 (TYPE 304) OR BETTER HEX HEAD BOLT (LENGTH AS REQUIRED), WASHER AND FIBER INSERT SELF LOCKING NUT, ON STANDARD METAL DELINEATOR POST.

INSTALLATION ON PERMANENT CONCRETE BARRIER, BRIDGE PARAPETS AND RETAINING WALLS

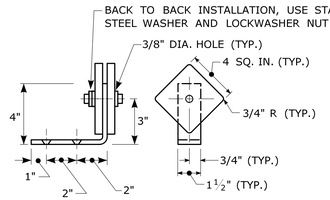


DELINEATORS DE-1, DE-2, DE-3 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

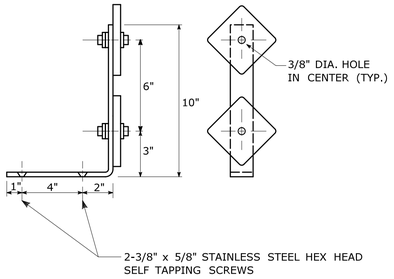
DELINEATORS DE-4, DE-4A, DE-5 FOR INSTALLATION ON METAL BRIDGE RAIL



DE-4



DE-4A

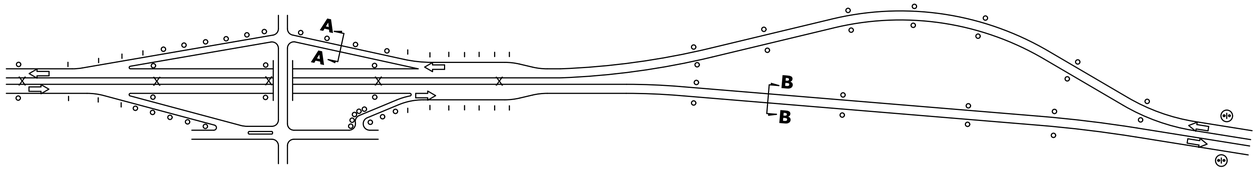


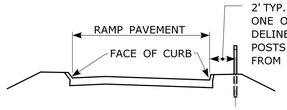
DE-5

COLORS: - YELLOW OR WHITE.
DELINEATORS - .0625" THK. ALUMINUM ALLOY.
BRACKET - .125" THK. ALUMINUM ALLOY, AND SHALL CONFORM TO SPECIFICATION M.18.07-03 BRIDGE RAIL MOUNTING BRACKETS.
FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV, TYPE V, OR TYPE IX RETROREFLECTIVE SHEETING.
USE STAINLESS STEEL WASHERS ON FACE OF DELINEATORS, 5/8" O.D. X 3/8" I.D. X .032" THK. (TYP.)

DELINEATORS TYPE DE-4, DE-4A, AND DE-5 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

TYPICAL MAINLINE & INTERCHANGE DELINEATION

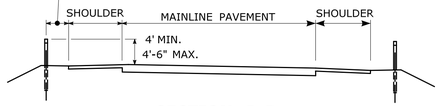




2' TYP. TO 8' MAX. AS DIRECTED BY ENGINEER.
ONE OFFSET SHALL BE USED THROUGHOUT PROJECT.
DELINEATORS TO BE PLACED IN LINE WITH GUIDE RAIL POSTS WHEN GUIDE RAIL IS 8' OR LESS FROM THE EDGE OF THE ROAD.

SECTION A-A

DELINEATOR PLACEMENT ON RAMPS
ON TANGENT SECTIONS - RIGHT SIDE OF RAMP
ON CURVED SECTIONS - BOTH SIDES OF CURVE



2' TYP. TO 8' MAX. AS DIRECTED BY ENGINEER.
ONE OFFSET SHALL BE USED THROUGHOUT PROJECT.
DELINEATORS TO BE PLACED IN LINE WITH GUIDE RAIL POSTS WHEN GUIDE RAIL IS 8' OR LESS FROM THE EDGE OF THE ROAD.

SECTION B-B

DELINEATOR PLACEMENT ON MAINLINE

DELINEATOR SPACING NOTES:

1) AT LOCATIONS WHERE THE MEDIAN WIDTH (BETWEEN SHOULDERS) IS 12' OR LESS, AND MEDIAN BEAM RAIL IS PRESENT, TYPE DE-3 DELINEATORS SHALL BE MOUNTED WITHIN THE MEDIAN BEAM RAIL.
2) SPACING ON MAINLINE EXPRESSWAY TANGENTS SHALL BE 400'.
3) SPACING ON MAINLINE EXPRESSWAY CURVES SHALL BE AS SPECIFIED IN TABLE 3F-1 OF THE MUTCD.
4) ON ACCELERATION AND DECELERATION LANES AND ON-RAMP TANGENT SECTIONS, DELINEATOR SPACING SHALL BE 100'.
5) ON CURVED PORTIONS OF RAMPS, DELINEATOR SPACING SHALL BE IN ACCORDANCE WITH TABLE 3F-1 OF THE MUTCD, BUT NOT TO EXCEED 100'.

LEGEND:

- ○ DE-1 DELINEATORS OR DE-4 DELINEATOR ASSEMBLY
- ı DE-2 DELINEATORS OR DE-5 DELINEATOR ASSEMBLY
- X DE-3 DELINEATORS ASSEMBLY OR DE-4A DELINEATOR
- (11) D10-1, 2, 3, OR 4 ASSEMBLY TO BE INSTALLED WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

COLOR APPLICATION, FOR DE-1 THRU DE-5

LEFT SIDE OF ALL ROADWAYS AND RAMPS - YELLOW
RIGHT SIDE OF ALL ROADWAYS AND RAMPS - WHITE

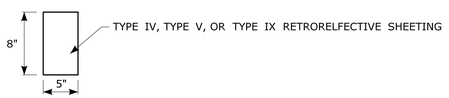
MUTCD TABLE 3F-1 APPROXIMATE SPACING FOR DELINEATORS ON HORIZONTAL CURVES

RADIUS (R) OF CURVE (feet)	APPROXIMATE SPACING (S) ON CURVE (feet)
50	20
115	25
180	35
250	40
300	50
400	55
500	65
600	70
700	75
800	80
900	85
1,000	90

DISTANCE IN FEET WERE ROUNDED TO THE NEAREST 5 FEET. SPACING FOR SPECIFIC RADII MAY BE INTERPOLATED FROM TABLE. THE MINIMUM SPACING SHOULD BE 20 FEET. THE SPACING ON CURVES SHOULD NOT EXCEED 300 FEET. IN ADVANCE OF OR BEYOND A CURVE, AND PROCEEDING AWAY FROM THE END OF THE CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S, THE SECOND IS 3S, AND THE THIRD 6S BUT NOT TO EXCEED 300 FEET.

S REFERS TO THE DELINEATOR SPACING FOR SPECIFIC RADII COMPUTED FROM THE FORMULA: $S=3\sqrt{R-50}$.

DELINEATORS DE-7, DE-7A, DE-7B, DE-7D FOR INSTALLATION ON TEMPORARY PRECAST CONCRETE BARRIER CURB AND TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)



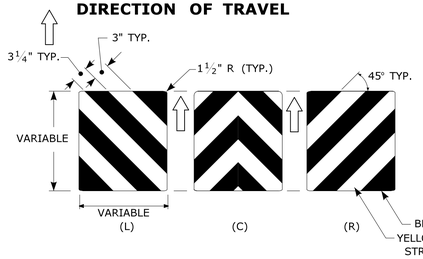
DE-7 ONE WAY WHITE
DE-7A ONE WAY YELLOW
DE-7B TWO WAY YELLOW
DE-7D TWO WAY WHITE
TEMPORARY PRECAST CONCRETE BARRIER DELINEATORS ARE TO BE FABRICATED OF ALUMINUM, STEEL, PLASTIC, OR OF A MATERIAL APPROVED BY THE ENGINEER AND MOUNTED IN THE CENTER OF EACH SECTION OF TEMPORARY BARRIER AS REQUIRED AND PER MANUFACTURER'S INSTRUCTIONS.

SPACING FOR TEMPORARY BARRIER CURB DELINEATORS:

ON THE LEADING TAPERED SECTION - EVERY 20',
ON THE FIRST 100' OF THE PARALLEL SECTION - EVERY 20',
ON THE REMAINING LENGTH - EVERY 100', MINIMUM OF 2 IF LESS THAN 100',
ALTERNATING ONE WAY TRAFFIC - EVERY 20',
ALL OTHER ROADWAYS SHALL BE DELINEATED IN ACCORDANCE WITH MUTCD.

DELINEATORS DE-7, DE-7A, DE-7B, AND DE-7D TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

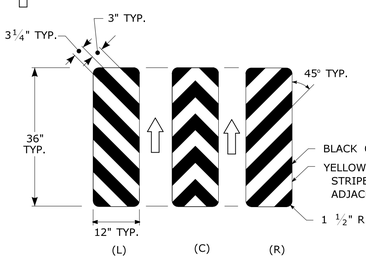
ATTENUATOR REFLECTORS SIGN #40-4266



THIS SHEETING WITHOUT A SUBSTRATE TO BE INSTALLED ON THE NOSE OF THE IMPACT ATTENUATOR WITH ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
THE SHEETING SHALL COVER THE NOSE OF THE IMPACT ATTENUATOR.
ON A CURVED NOSE, THE WIDTH OF THE SHEETING SHALL EXTEND 1" BEYOND THE POINT OF CURVATURE ON EACH SIDE OF THE NOSE.
THE HEIGHT AND WIDTH OF THE SHEETING VARIES DEPENDING ON THE SIZE OF THE NOSE OF THE IMPACT ATTENUATOR.

ATTENUATOR REFLECTOR TO BE PAID FOR UNDER SECTION 18.0 IMPACT ATTENUATOR

TYPE 3 OBJECT MARKERS SIGN #41-4267



SIGN #41-4267 MARKER MOUNTED ON 4lb. METAL SIGN POST.
BOTTOM OF SIGN #41-4267 TO BE 4' ABOVE ADJACENT EDGE OF PAVEMENT.
FINAL LOCATIONS OF SIGN #41-4267 MARKERS WILL BE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

TYPE 3 OBJECT MARKER TO BE PAID FOR UNDER SECTION 12.08 SIGN FACE SHEET ALUMINUM

REV.	DATE	REVISION DESCRIPTION
5	8-2018	INCLUDED DE-7D AND REMOVED DE-7C, DE-9, AND DE-10.
4	4-2017	REVISED ATTENUATOR REFLECTOR AND TYPE 3 OBJECT MARKERS.
3	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
2	2-2011	MINOR REVISIONS.
1	1-2010	INCLUDED DETAILS IN D10-1, D10-2, D10-3 DELINEATORS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1205..01..1..2018.dgn Model: TR-1205..01

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:04:28-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:47:46-04'00'

CTDOT STANDARD SHEET

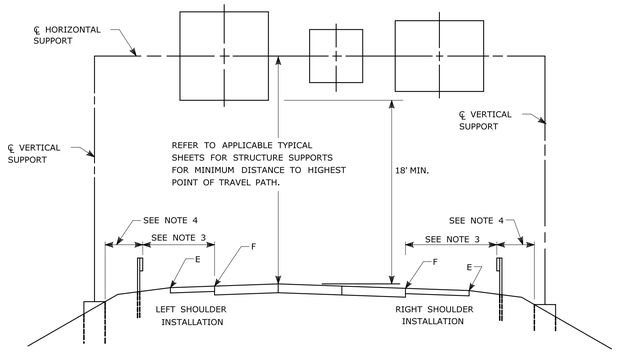
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS

STANDARD SHEET NO.:

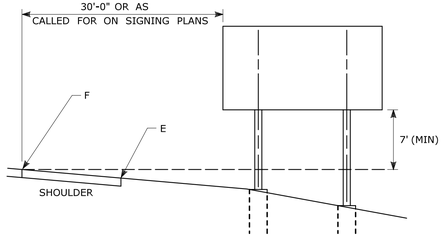
TR-1205_01



TYPICAL PLACEMENT OF OVERHEAD SIGNS ON SIGN SUPPORTS

NOTES:

1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
2) BARRIER SYSTEMS MAY BE REQUIRED FOR BOTH SIDES OF SUPPORTS IN MEDIANS.
3) IMPACT PROTECTION SHALL BE PROVIDED FOR THE SIGN SUPPORTS LOCATED WITHIN CLEAR ZONE.
4) SIGN SUPPORT FOUNDATIONS SHALL BE LOCATED OUTSIDE OF BARRIER SYSTEMS DEFLECTION AREA.
5) ALL SIGNS ARE TO BE LEVEL, REGARDLESS OF CAMBER IN SUPPORT.



TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

NOTES:

1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.
2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' MIN. FROM POINT "E".
4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES. SIGNS LOCATED 30 FT OR MORE FROM THE EDGE OF THE ROAD SHALL BE TURNED APPROXIMATELY 3° TOWARD THE ROAD.

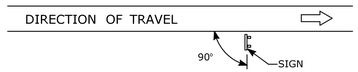


DIAGRAM "A"

ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.

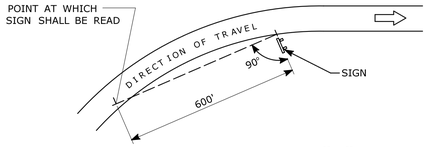
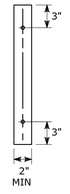


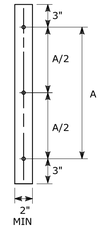
DIAGRAM "B"

SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

RETROREFLECTIVE STRIPS 48" LONG OR LESS:



RETROREFLECTIVE STRIPS OVER 48" LONG:

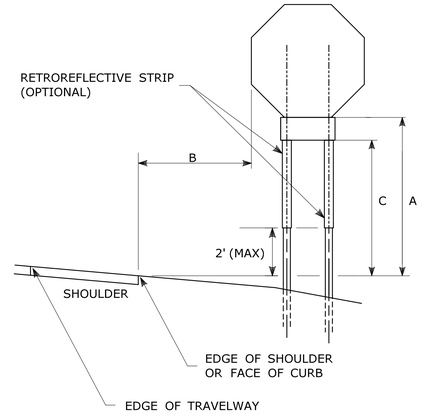


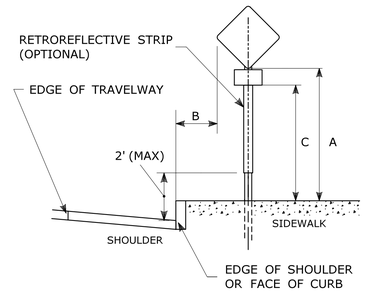
RETROREFLECTIVE STRIP DETAIL

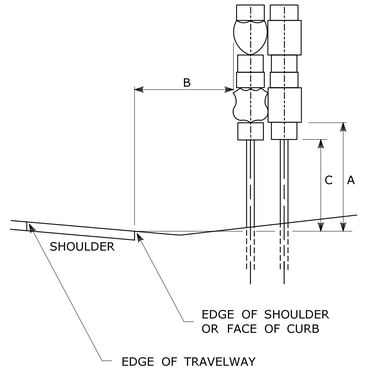
NOTES:

RETROREFLECTIVE STRIPS WHICH ARE 48 IN LONG OR LESS SHALL BE ATTACHED USING 2 BOLTS AND RETROREFLECTIVE STRIPS OVER 48 IN LONG SHALL BE ATTACHED USING 3 BOLTS AS SHOWN ON THE DETAILS ABOVE.
REFER TO STANDARD SHEET No. TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR MOUNTING DETAILS.

RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND "DO NOT ENTER" SIGNS SHALL BE RED.







TYPICAL SIGN PLACEMENT DETAIL

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY.

REFER TO STANDARD SHEET No. TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS AND SIGN MOUNTING.

IF A RETFOREFLECTIVE STRIP IS USED ON SIGN SUPPORT, IT SHALL BE PLACED FOR THE FULL LENGTH OF THE SUPPORT FROM THE BOTTOM OF THE SIGN TO WITHIN 2 FT ABOVE THE EDGE OF THE ROADWAY.

PARKING SIGNS TYPICALLY USE 45° MOUNTING BRACKET.

DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET (1)	DIM."C" MIN PLAQUE HEIGHT (1)	ASSEMBLY LOCATION
7' (2)	6' 12' (3)	5'	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
5'	2'	4'	• SIGNS IN RURAL AREAS • DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMPS • DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS
5'	2'	N/A	• CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS • ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS
4'	6' 12' (3)	N/A	INCIDENT MANAGEMENT SIGNS AND MILE POST MARKER ASSEMBLIES LOCATED ON FREEWAYS AND EXPRESSWAYS
4'	2'	4'	CENTRAL ISLANDS OF ROUNDABOUTS
7'	2' (4)	6'	BUSINESS & RESIDENTIAL AREAS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
7'	2' (4)	7'	SIDEWALKS (5)

(1) OR AS DIRECTED BY THE ENGINEER

(2) 8 FT MINIMUM HEIGHT REQUIRED IF A SUPPLEMENTAL PLAQUE IS SUBMOUNTED BELOW THE MAJOR SIGN.

(3) 6 FT FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6 FT WIDE
12 FT FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6 FT WIDE.

(4) A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.

(5) A CLEAR PATH OF NOT LESS THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

REV.	DATE	REVISION DESCRIPTION
3	8-2018	INCLUDED INCIDENT MANAGEMENT AND MILE MARKER SIGNS.
2	4-2017	MINOR REVISIONS.
1	2-2011	MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR_1208_01_1_2018.dgn Model: TR-1208_01

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:06:06-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:48:06-04'00'

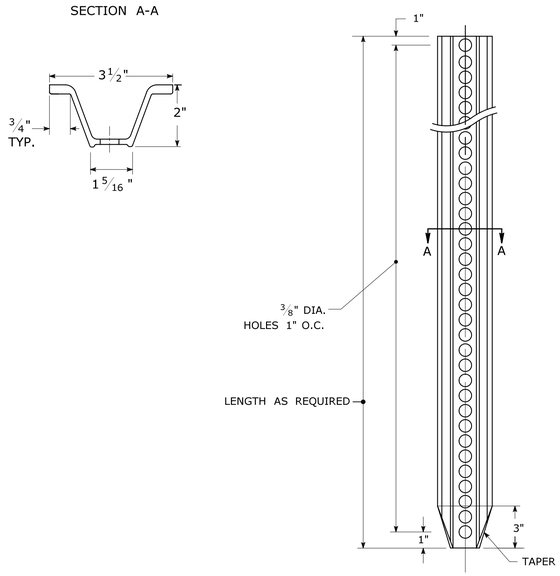
CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

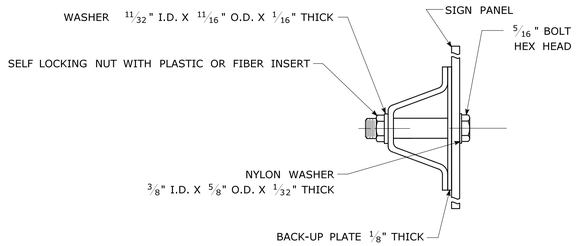
STANDARD SHEET TITLE:
SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS

STANDARD SHEET NO.:
TR-1208_01

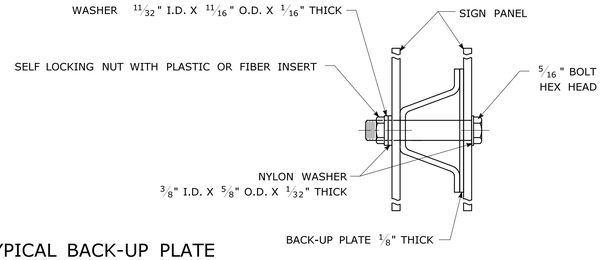
TYPICAL METAL SIGN POSTS



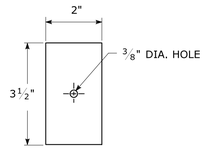
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



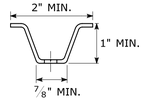
TYPICAL BACK-UP PLATE



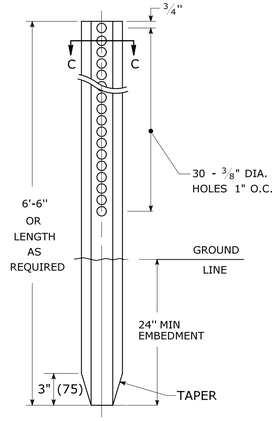
BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240, (ALLOY TYPES 304 OR 316).

METAL DELINEATOR POST

WT./FT. = 1.12 LBS./FT. MIN.



SECTION C-C

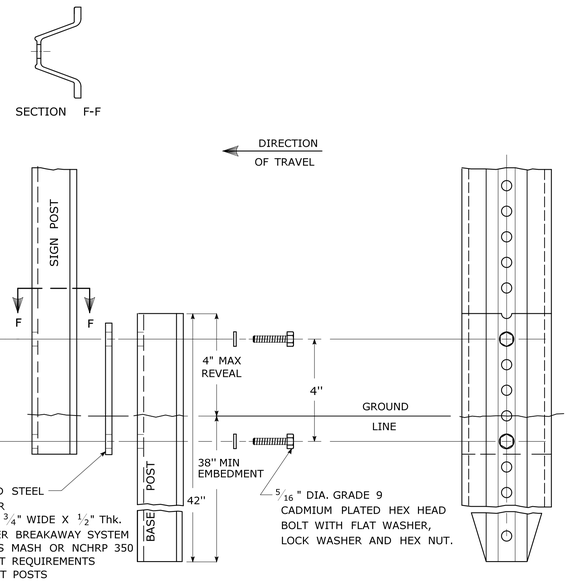


GENERAL NOTES:

1. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 80 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91 LBS. OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
5. ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
6. ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. SIGN POSTS SHALL BE 4 LBS./FT.

BREAKAWAY INSTALLATION

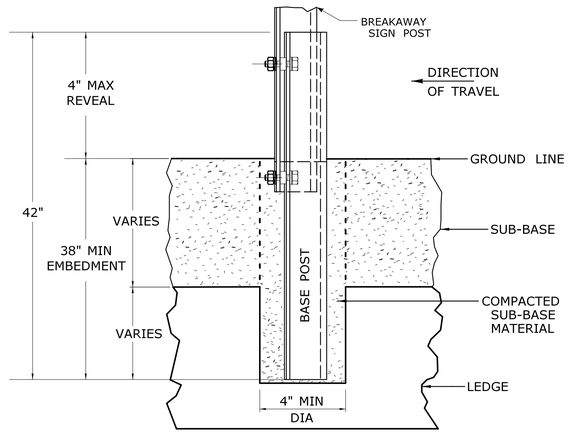
FOR 4 LBS./FT. POSTS



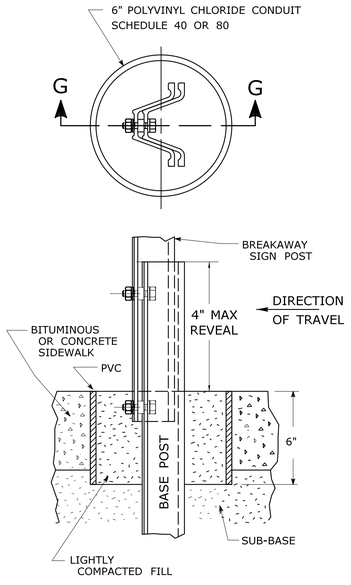
TYPICAL SIGN POST INSTALLATION IN LEDGE

LEDGE SHALL BE REMOVED TO DRIVE THE BASE POST TO A DEPTH OF 38".

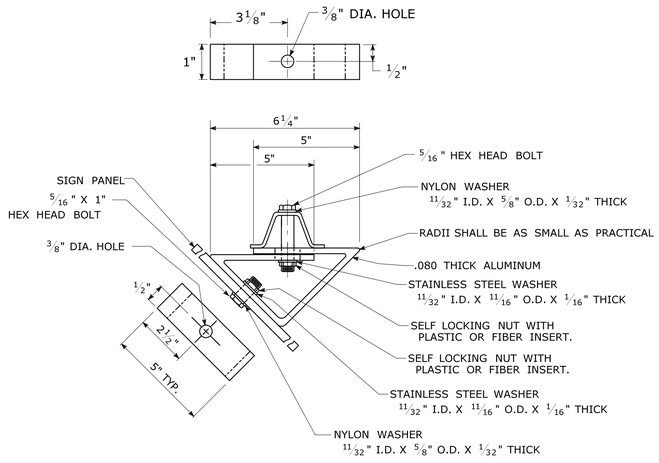
HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



TYPICAL SLEEVE FOR PAVED AREAS



45° MOUNTING BRACKET FOR INSTALLATION OF PARKING SIGNS



REV.	DATE	REVISION DESCRIPTION
2	6-2017	SIGN POST REVISIONS.
1	2-2011	MINOR REVISIONS.

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Plotted Date: 6/6/2017

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1208_02_May_2017_Revision.dgn Model: TR-1208_02

SUBMITTED BY:	NAME/DATE/TIME:
Mark Makuch	Mark F. Makuch, P.E. 2017.06.07 07:30:30-04'00'
Mary E. Baker	Mary E. Baker, P.E. 2017.06.13 15:28:14-04'00'
APPROVED BY:	NAME/DATE/TIME:
Gregory M. Dorosh	Gregory M. Dorosh, P.E. 2017.06.15 09:27:29-04'00'

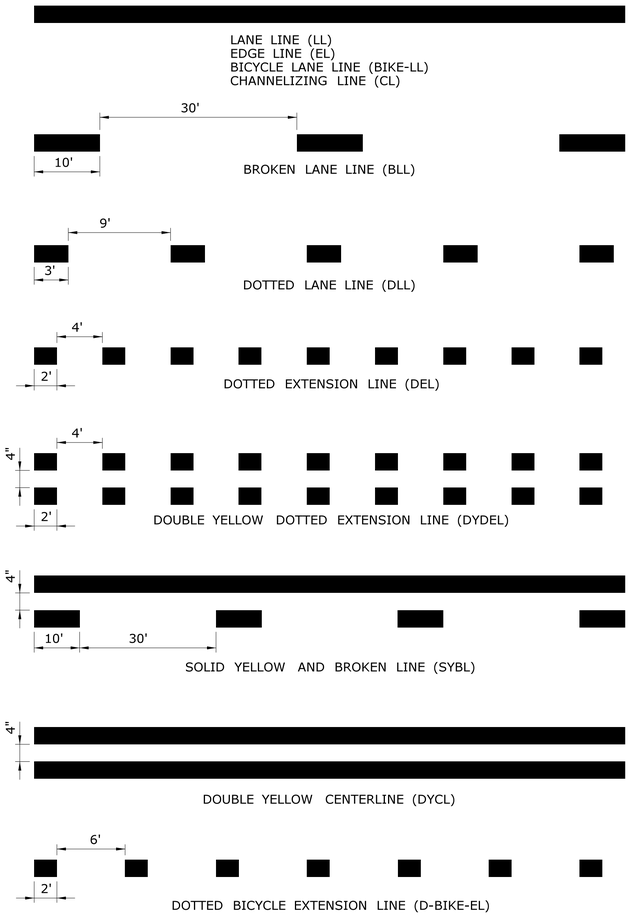
CTDOT STANDARD SHEET

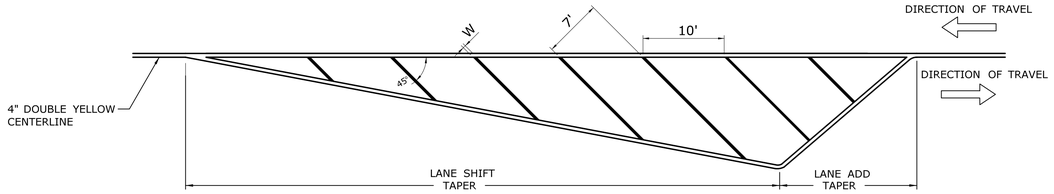
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

METAL SIGN POSTS AND SIGN MOUNTING DETAILS

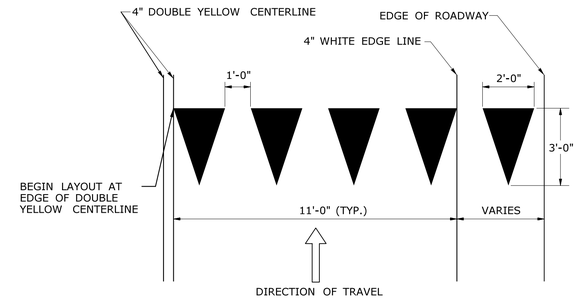
GUIDE SHEET NO.: **TR-1208_02**



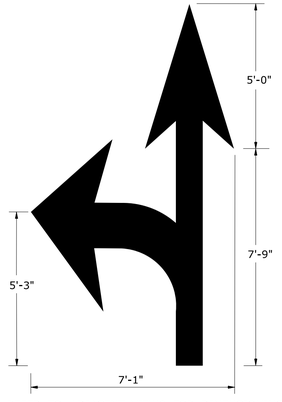


CROSS HATCHED ISLAND DETAIL
(YELLOW)

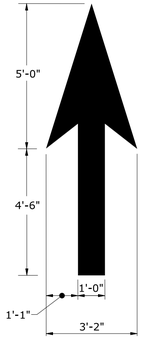
W IS TO BE 6" WHEN POSTED SPEED ≤ 45 MPH
W IS TO BE 12" WHEN POSTED SPEED > 45 MPH
CROSS HATCHED ISLANDS ARE TO BE INSTALLED WHERE CALLED FOR ON THE PLANS



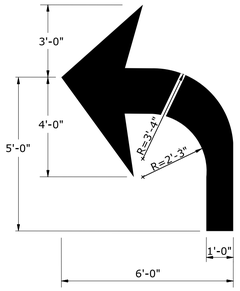
YIELD LINE DETAIL
(WHITE)



REFER TO ADJACENT VIEWS FOR DIMENSIONING
27.0 S.F.



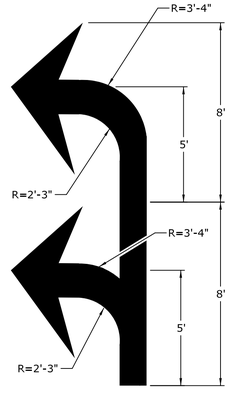
12.5 S.F.



15.5 S.F.

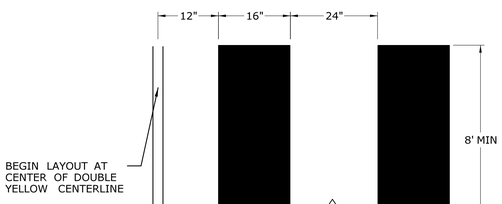
27.0 S.F.
LEFT & RIGHT
ARROW COMBO

38.5 S.F.
3 WAY ARROW
COMBO



35 S.F.
DOUBLE LEFT
ARROW

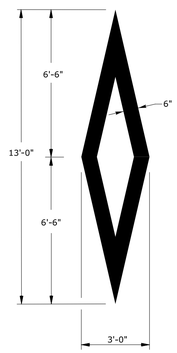
PAVEMENT ARROW DETAILS
(WHITE)
ARROWS SHALL BE CENTERED IN TRAVEL LANE



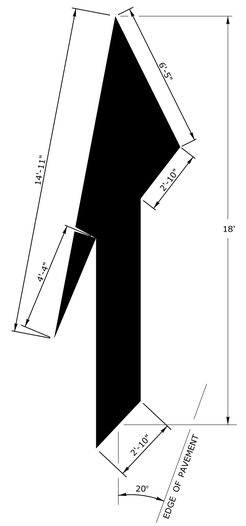
CROSSWALK DETAIL
(WHITE)

NOTES :

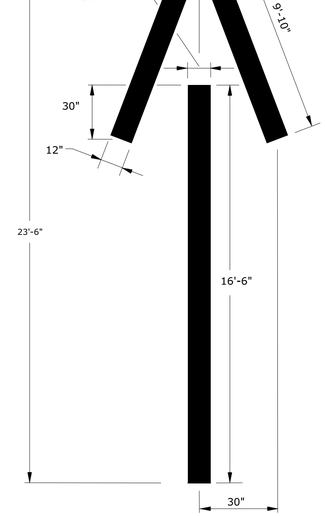
1. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
2. RIGHT TURN PAVEMENT MARKING ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.



WHITE PREFERENTIAL
LANE SYMBOL
13.0 S.F.



WHITE LANE
REDUCTION ARROW
41.8 S.F.



WHITE WRONG WAY
PAVEMENT ARROW
36.2 S.F.

REV.	DATE	REVISION DESCRIPTION
1	8-2018	REMOVED ROUNDABOUT MARKINGS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_04.dgn Model: CT_Civil_2D_Sheet

SUBMITTED BY:	NAME/DATE/TIME:
Mark Makuch	Mark F. Makuch, P.E. 2018.08.17 09:07:44-04'00'
APPROVED BY:	NAME/DATE/TIME:
	Mark F. Carlino, P.E. 2018.08.21 07:48:45-04'00'

CTDOT
STANDARD SHEET

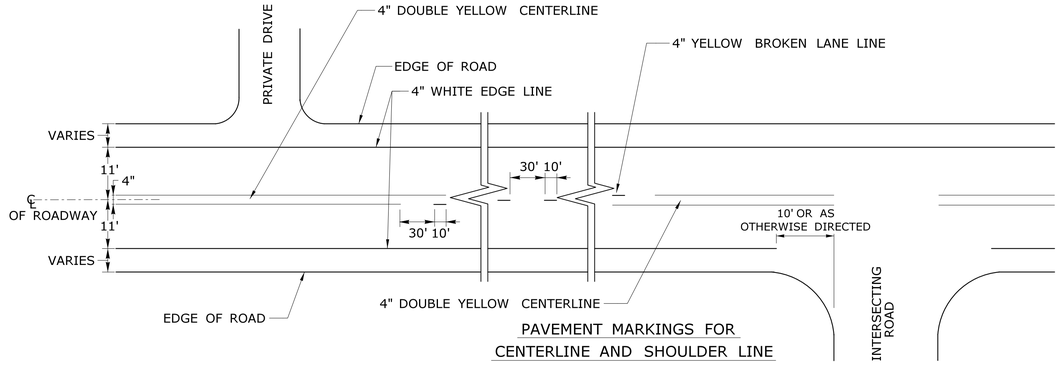
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

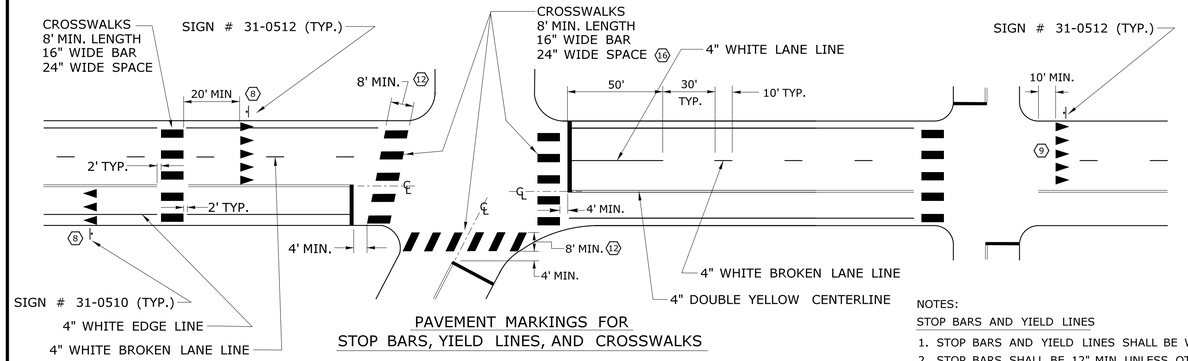
PAVEMENT MARKING LINES AND SYMBOLS

STANDARD SHEET NO.:

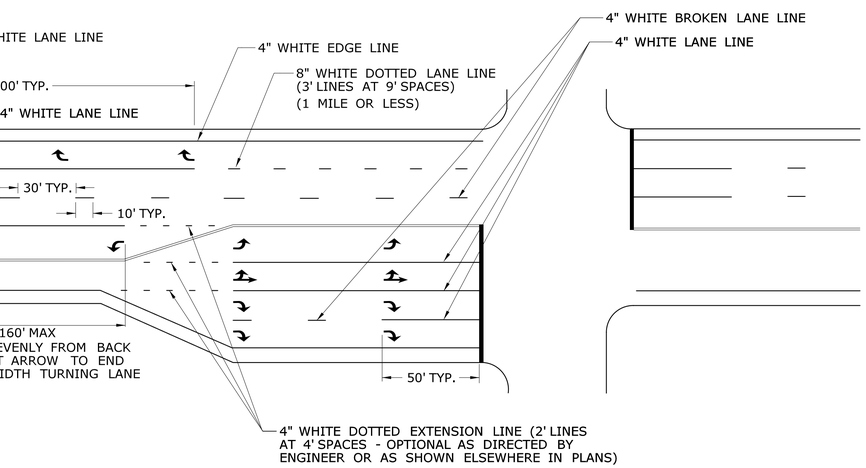
TR-1210_04



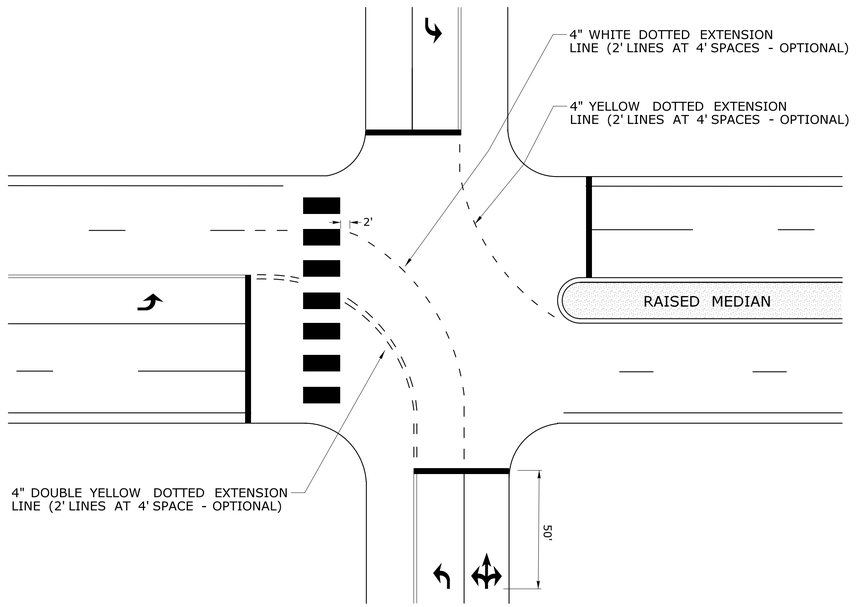
PAVEMENT MARKINGS FOR
CENTERLINE AND SHOULDER LINE



PAVEMENT MARKINGS FOR
STOP BARS, YIELD LINES, AND CROSSWALKS



PAVEMENT MARKINGS FOR TURNING LANES
AND ROAD LANE-DROP



TURNING EXTENSIONS

NOTES:

STOP BARS AND YIELD LINES

1. STOP BARS AND YIELD LINES SHALL BE WHITE.
2. STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
3. STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
4. IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
5. THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
6. FOR STOP BARS AT RAMPS SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMPS".
7. FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.

(8) MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHALL BE INSTALLED AND SHOULD BE LOCATED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER.
WHERE A YIELD LINE EXISTS ON AN APPROACH TO A CROSSWALK, THE APPROAPRIATE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.

(9) FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.

10. THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.

CROSSWALKS

11. CROSSWALK MARKINGS SHALL BE WHITE.

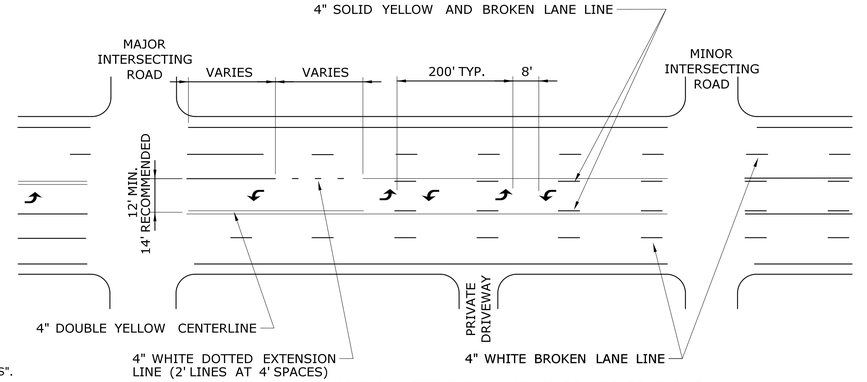
(12) AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO ℄ AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.

13. BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
14. ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
15. DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.

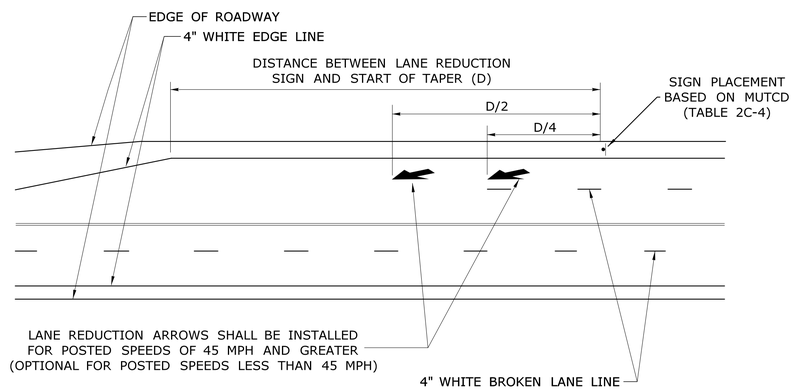
(16) 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.

PAVEMENT MARKINGS FOR TURNING LANES

(17) INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.



TWO-WAY LEFT-TURN MARKINGS APPLICATIONS



LANE REDUCTION TRANSITIONS

REV.	DATE	REVISION DESCRIPTION
1	8-2018	REVISED YIELD LINE SIGNAGE AND NOTES.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1210_08.DGN Model: TR-1210_05

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:10:18-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:49:18-04'00'

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
PAVEMENT MARKINGS
FOR NON FREEWAYS

STANDARD SHEET NO.:
TR-1210_08

E5 - SERIES

E5-1

COPY & BORDER - WHITE
BACKGROUND - GREEN

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	51-6147	2

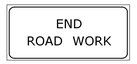
16 - SERIES

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-M	5.0	30X24	80-1613	1
16-H	17.5	60X42	80-1608	2
16-E	35.0	84X60	80-1605	2

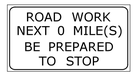
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-S	10.0	48X30	80-1619	2

G20 - SERIES

G20-2a



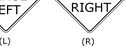
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	8.0	48X24	80-9612	2



VARIABLE MILEAGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	90.0	120X108	80-9728	

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9711	1
	16.0	48	80-9712	2



VARIABLE MILEAGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	7.0	72X14	80-9720	

VARIABLE ARROW
COPY & BORDER - WHITE
BACKGROUND - BLUE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	50-5934	2

M4 - SERIES

M4-8

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9707	1

M4-9b

VARIABLE ARROW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	30X24	80-9703	1

M4-8a

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.0	24X18	80-9708	1

M4-9b

VARIABLE ARROW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	6.25	30X30	80-9706	1

M4-10

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	6.0	48X18	80-9701R	2
	6.0	48X18	80-9702L	2

VARIABLE ARROW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	30X24	80-9710	1

R1 - SERIES

R1-1

COPY & BORDER - WHITE
BACKGROUND - RED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.19	30	31-0552	1
	13.30	48	31-0557	2

R1-2

COPY & BORDER - RED
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.90	36	31-0523	1
	10.83	60	31-0528	2

R4 - SERIES

R4-7

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	24X30	31-1526	1

R4-9

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	24X30	31-1517	1
	12.0	36X48	31-1518	1
	20.0	48X60	31-1519	2

R9 & R11 - SERIES

R9-9

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.75	30X18	80-9076	1

R11-3a

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9077	2

R9-11

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.0	24X18	80-9074	1

R11-3b

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

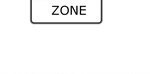
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9078	2

R9-11a

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9075	1

R11-3b



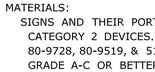
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9081	2

R11-2

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	10.0	48X30	80-9080	2



COPY & BORDER - BLACK
BACKGROUND - WHITE

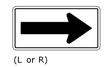
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	22.5	60X54	31-1907	2

W1 - SERIES

W1-4

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9432L	1
	9.0	36	80-9431R	1
	16.0	48	80-9452L	2
	16.0	48	80-9451R	2

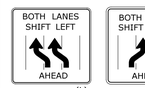
W1-6



	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	8.0	48X24	80-9424	2
	12.5	60X30	80-9423	2

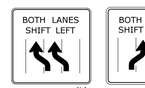
W1-8

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.0	18X24	80-9401	1
	5.0	24X30	80-9403	1
	7.5	30X36	80-9404	1



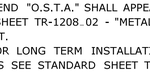
(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9433L	2
	16.0	48	80-9435R	2



(L) (R)

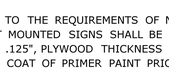
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9434L	2
	16.0	48	80-9436R	2



(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9443L	2
	25.0	60	80-9445R	2

W1-4b



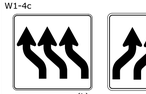
(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9444L	2
	25.0	60	80-9446R	2

(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9483L	2
	25.0	60	80-9485R	2

W1-4c



(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9484L	2
	25.0	60	80-9486R	2

W3 - SERIES

W3-1

OCTAGON - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9050	1
	16.0	48	80-9051	2

W3-2

TRIANGLE - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9054	1
	16.0	48	80-9055	2

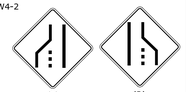
W3-3

TOP CIRCLE - RED
MIDDLE CIRCLE - YELLOW
BOTTOM CIRCLE - GREEN
COPY & BORDER - BLACK
BACKGROUND - FLUORESCENT ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9052	1
	16.0	48	80-9053	2

W4-W6 - SERIES

W4-2



	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9918L	2
	16.0	48	80-9917R	2

W6-3

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9945	2

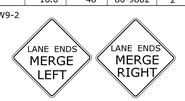
W8-W9 - SERIES

W8-1

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9901	1
	16.0	48	80-9902	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9801	1
	16.0	48	80-9802	2

W9-2



(L) (R)

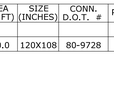
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9910L	2
	16.0	48	80-9911R	2

W13 - SERIES

W13-1

SUBPLATE
VARIABLE SPEED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	4.0	24	80-9569	1
	6.25	30	80-9567	1



VARIABLE SPEED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9506	1
	16.0	48	80-9508	2

W3-5

VARIABLE SPEED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9520	1
	16.0	48	80-9521	2

W16 - SERIES

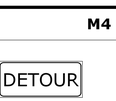
W16-15P

COPY & BORDER - BLACK
BACKGROUND - ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9049	

W20 - SERIES

W20-1



	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	6.25	30	80-9602	1
	9.0	36	80-9603	1
	16.0	48	80-9604	2

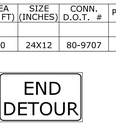
(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9836	2
(R)	16.0	48	80-9839	2

W20-7a

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9803	1
	16.0	48	80-9804	2

W20-1

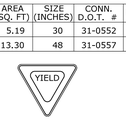


VARIABLE DISTANCE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9614	1
	16.0	48	80-9615	2

(L) (R)

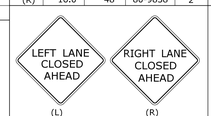
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9837	2
(R)	16.0	48	80-9838	2



	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	32.0	96X48	80-9815	2

W20-2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9805	1
	16.0	48	80-9806	2



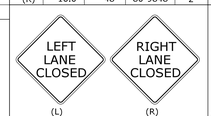
(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9847	2
(R)	16.0	48	80-9848	2

W16-9P

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9870	
	3.75	30X18	80-9871	

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9834	1
	16.0	48	80-9835	2



(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)	16.0	48	80-9846	2
(R)	16.0	48	80-9849	2

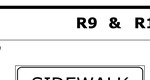
W16-3aP

VARIABLE MILEAGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.5	30X12	80-9872	
	4.5	36X18	80-9873	

W21 - SERIES

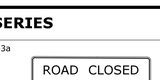
W21-6



	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9607	1

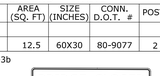
W22 - SERIES

W22-1



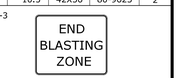
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9620	1
	16.0	48	80-9625	2

W22-2



	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	10.5	42X36	80-9623	2

W22-3



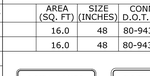
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	10.5	42X36	80-9621	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	4.17	60X10	80-9913	2
	12.0	96X18	80-9914	2
	3.33	48X10	80-9916	2

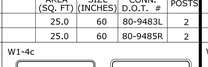
BLANK OR
VARIABLE LEGEND

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9933	1
	16.0	48	80-9934	2

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9928	2
	24.0	72X48	80-9929	2



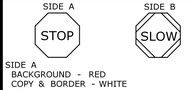
	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9956	2



(1) (2)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(1)	16.0	48	80-9957	2
(2)	9.0	36	80-9958	1
(2)	16.0	48	80-9959	2

STOP-SLOW PADDLE



SIDE A
BACKGROUND - RED
COPY & BORDER - WHITE
SIDE B
BACKGROUND - ORANGE
COPY & BORDER - BLACK PLAIN

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.25	18	80-9950	PADDLE

NOTES:
1. R1-SERIES SIGN THE LEGEND "O.S.T.A." SHALL APPEAR.
2. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
3. POSTS SHALL BE 4 LBS./FT.
4. ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE STANDARD SHEET TR-1208_02.
5. FOR TEMPORARY SUPPORTS SEE STANDARD SHEET TR-1220_02 - "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".
6. FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
7. ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.
8. MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS.

MATERIALS:
SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES. ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100" EXCEPT SIGN #s. 80-1605, 80-9914, 80-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125", PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2" EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.

COLORS:
BACKGROUND - FLUORESCENT ORANGE - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS WITH FLUORESCENT ORANGE BACKGROUND TO USE TYPE VIII RETROREFLECTIVE SHEETING.
ALL OTHER SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
6	8-2018	REVISED POST REQUIREMENTS AND SHEETING TYPE.
5	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
4	6-2012	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
3	4-2012	REVISED NEW SIGNAL SIGN(S) TO CONFORM TO 2009 MUTCD.
2	2-2011	MINOR REVISIONS.
1	3-2010	REMOVED OBSOLETE SIGNS (50-5925, 50-5935).

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Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1220_01_1_2018.dgn Model: TR-1220_01

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:11:08-04'00'

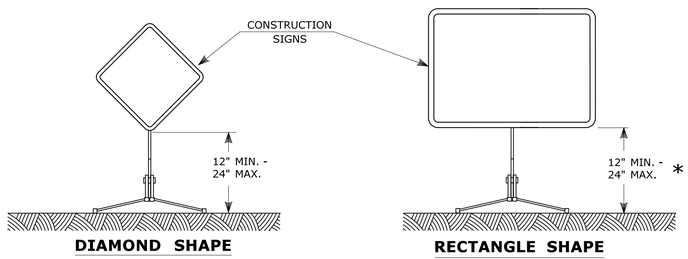
APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:49:34-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS

STANDARD SHEET NO.:
TR-1220_01

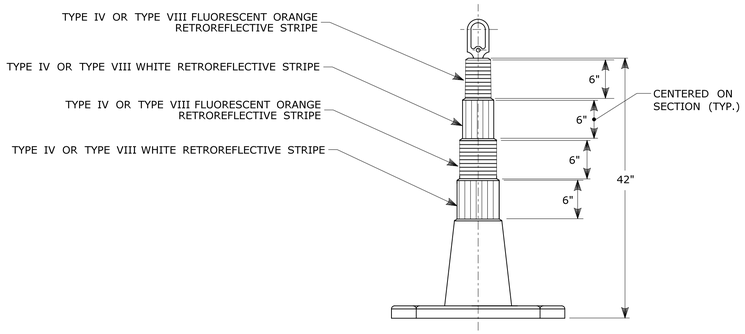


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
5. PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220_01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

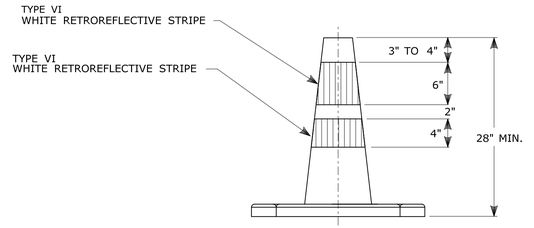
* FOR E5-1 (EXIT SIGNS) USE MIN 48".



42" TRAFFIC CONE

NOTES:

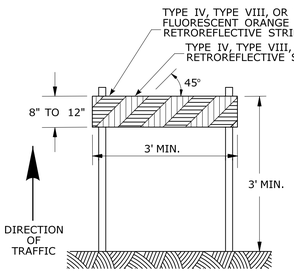
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
6. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



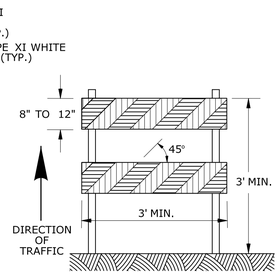
TRAFFIC CONE

NOTES:

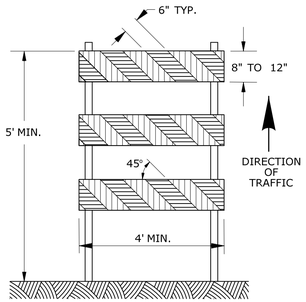
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
6. TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
7. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TYPE I BARRICADE



TYPE II BARRICADE

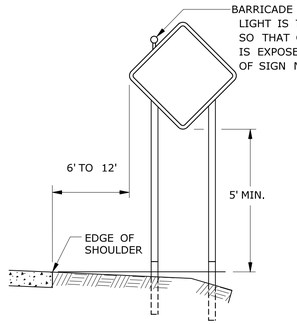


TYPE III BARRICADE

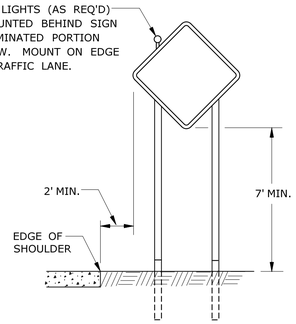
CONSTRUCTION BARRICADES

NOTES:

1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
3. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



RURAL AREA



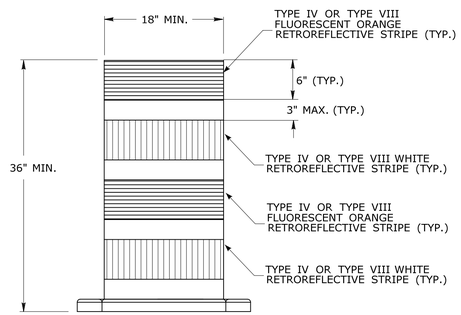
URBAN AREA

PLACEMENT OF CONSTRUCTION SIGNS TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.

REFER TO STANDARD SHEETS:
TR-1208_01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS."
TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."



TRAFFIC DRUM FRONT VIEW

NOTES:

1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
3. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

REV.	DATE	REVISION DESCRIPTION
3	8-2018	UPDATED SHEETING TYPE AND COLOR.
2	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
1	2-2011	MINOR REVISIONS.

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Plotted Date: 8/10/2018

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: TR-1220_02_3_2018.dgn Model: TR-1220_02

SUBMITTED BY: NAME/DATE/TIME:
Mark F. Makuch, P.E.
2018.08.17 09:12:43-04'00'

APPROVED BY: NAME/DATE/TIME:
Mark F. Carlino, P.E.
2018.08.21 07:49:51-04'00'

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

STANDARD SHEET NO.:
TR-1220_02