03-HIGHWAYS
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
INX-01	INDEX SHEET		
TYP-01 - TYP-02	TYPICAL SECTIONS		
MDS-01 - MDS-12	MISCELLANOUS DETAILS		
SEQ-01 - SEQ-09	SEQUENCE PLANS		
TWH-01	TEMPORARY WATER HANDLING PLAN		
ALN-01 - ALN-03	ALIGNMENT - GEOMETRY PLAN		
ROW-01 - ROW-03	RIGHT OF WAY PLAN		
IGP-01 - IGP-03	GRADING PLAN		
DRG-01 - DRG-03	DRAINAGE PLAN		
LDS-01	LANDSCAPE DESIGN SHEET		
PLN-01 - PLN-03	CONSTRUCTION PLAN		
BOR-01 - BOR-03	BORING REPORT		
PRO-01 - PRO-04	PROFILE SHEETS		
XSC-01 - XSC-11	CROSS SECTIONS - ROUTE 190 WEST		
XSC-12 - XSC-21	CROSS SECTIONS - ROUTE 190 EAST		
XSC-22 - XSC-40	CROSS SECTIONS - ROUTE 319		
XSC-41 - XSC-44	CROSS SECTIONS - ROUNDABOUT		

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

Salvatore Aresco, P.E.
For Matthew R. Vail
2019.08.19 14:40:23-04'00'

TRANSPORTATION PRINCIPAL ENGINEER - MATTHEW R. VAIL, P.E.

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/8/2019
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2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

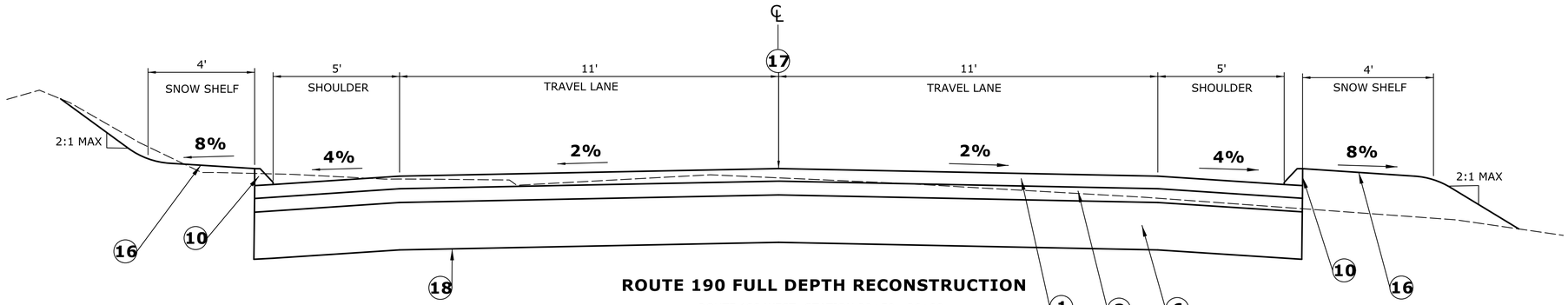
PROJECT NO. 0134-0147

DRAWING TITLE: INDEX SHEET

DRAWING NO. INX-01

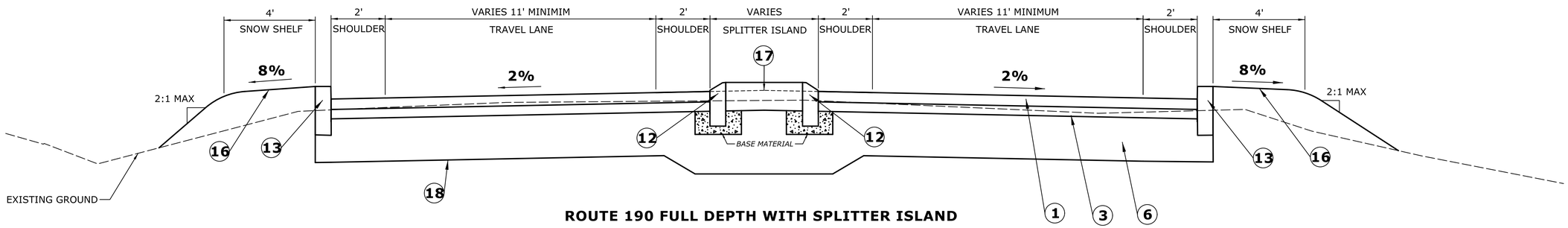
SHEET NO. 03.01

TYPICAL CROSS SECTIONS



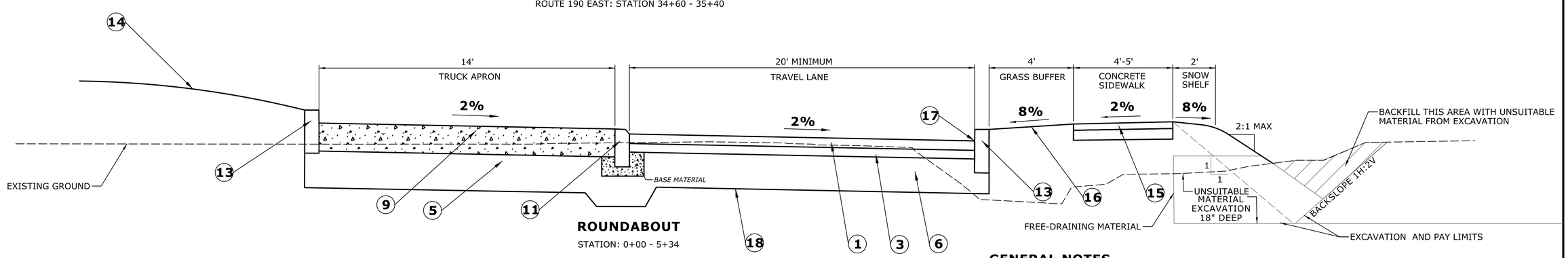
ROUTE 190 FULL DEPTH RECONSTRUCTION

ROUTE 190 WEST: STATION 20+50 - 26+00
ROUTE 190 EAST: STATION 30+50 - 34+60



ROUTE 190 FULL DEPTH WITH SPLITTER ISLAND

ROUTE 190 WEST: STATION 26+00 - 26+60
ROUTE 190 EAST: STATION 34+60 - 35+40



ROUNDABOUT

STATION: 0+00 - 5+34

LEGEND

1. 4" PMA S0.5 TRAFFIC LEVEL 3 (PLACED IN TWO EQUAL LIFTS)
2. 2" PMA S0.5 TRAFFIC LEVEL 2
3. 4" PMA S1.0 TRAFFIC LEVEL 3 (PLACED IN ONE SINGLE LIFT)
4. 4" PMA S0.5 TRAFFIC LEVEL 2 (PLACED IN TWO EQUAL LIFTS)
5. 10" PROCESSED AGGREGATE BASE
6. 12" PROCESSED AGGREGATE BASE
7. 14" PROCESSED AGGREGATE BASE (IF BEDROCK IS ENCOUNTERED, PROCESSED AGGREGATE WILL INCREASE TO 18"
8. 16" PROCESSED AGGREGATE BASE
9. 12" REINFORCED CONCRETE
10. CURBING AS SHOWN ON PLANS
11. GRANITE CURBING (2" REVEAL)
12. GRANITE CURBING (4" REVEAL)
13. CONCRETE CURBING (6" REVEAL)
14. LANDSCAPED CENTRAL ISLAND
15. CONCRETE SIDEWALK
16. TOPSOIL/TURF ESTABLISHMENT/ECM
17. POINT OF APPLICATION OF GRADE
18. FORMATION OF SUBGRADE

GENERAL NOTES

1. CLASS 1 EROSION CONTROL MATTING TYPE B TO BE INSTALLED AS DIRECTED BY ENGINEER ON SLOPES STEEPER THAN 4:1
2. THE LAST LIFT OF 2" OF PMA WILL BE LAID IN THE LAST STAGE OF WORK

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DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

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DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

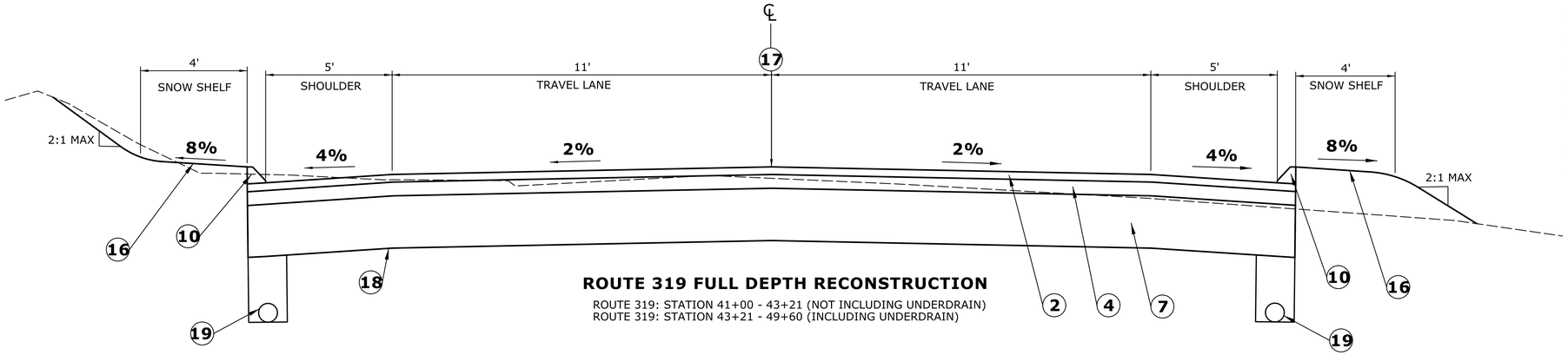
PROJECT NO. 0134-0147

DRAWING TITLE: TYPICAL SECTIONS

DRAWING NO. TYP-01

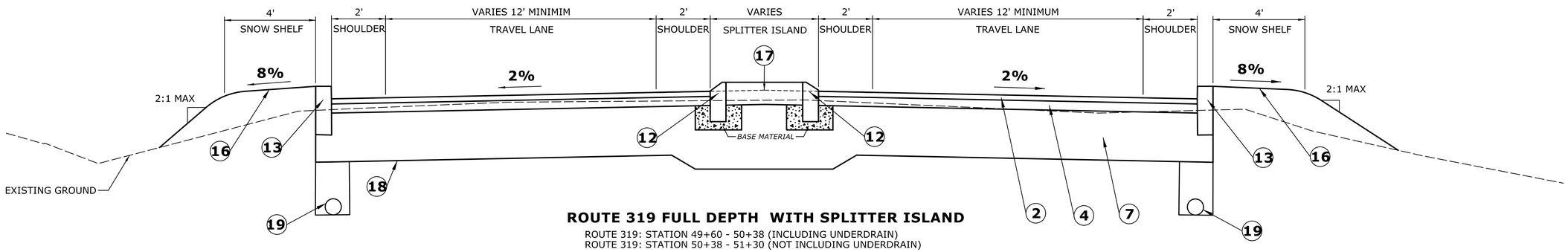
SHEET NO. 03.02

TYPICAL CROSS SECTIONS



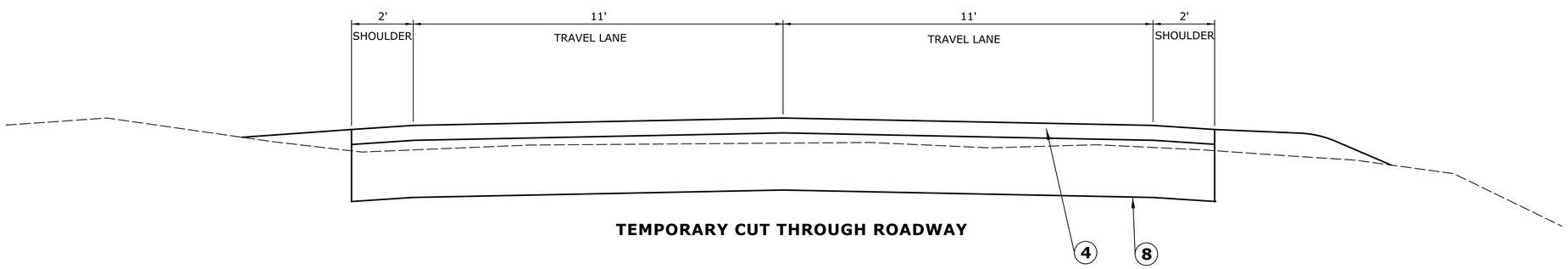
ROUTE 319 FULL DEPTH RECONSTRUCTION

ROUTE 319: STATION 41+00 - 43+21 (NOT INCLUDING UNDERDRAIN)
ROUTE 319: STATION 43+21 - 49+60 (INCLUDING UNDERDRAIN)



ROUTE 319 FULL DEPTH WITH SPLITTER ISLAND

ROUTE 319: STATION 49+60 - 50+38 (INCLUDING UNDERDRAIN)
ROUTE 319: STATION 50+38 - 51+30 (NOT INCLUDING UNDERDRAIN)



TEMPORARY CUT THROUGH ROADWAY

LEGEND

1. 4" PMA S0.5 TRAFFIC LEVEL 3 (PLACED IN TWO EQUAL LIFTS)
2. 2" PMA S0.5 TRAFFIC LEVEL 3
3. 4" PMA S1.0 TRAFFIC LEVEL 3 (PLACED IN ONE SINGLE LIFT)
4. 4" PMA S0.5 TRAFFIC LEVEL 2 (PLACED IN TWO EQUAL LIFTS)
5. 10" PROCESSED AGGREGATE BASE
6. 12" PROCESSED AGGREGATE BASE
7. 14" PROCESSED AGGREGATE BASE (IF BEDROCK IS ENCOUNTERED, PROCESSED AGGREGATE WILL INCREASE TO 18"
8. 16" PROCESSED AGGREGATE BASE
9. 12" REINFORCED CONCRETE
10. CURBING AS SHOWN ON PLANS
11. GRANITE CURBING (2" REVEAL)
12. GRANITE CURBING (4" REVEAL)
13. CONCRETE CURBING (6" REVEAL)
14. LANDSCAPED CENTRAL ISLAND
15. CONCRETE SIDEWALK
16. TOPSOIL/TURF ESTABLISHMENT/ECM
17. POINT OF APPLICATION OF GRADE
18. MATERIAL FOR TACK COAT
19. 6" UNDERDRAIN

GENERAL NOTES

1. CLASS 1 EROSION CONTROL MATTING TYPE B TO BE INSTALLED AS DIRECTED BY ENGINEER ON SLOPES STEEPER THAN 4:1
2. THE LAST LIFT OF 2" OF PMA WILL BE LAID IN THE LAST STAGE OF WORK

DESIGNER/DRAFTER: JLG
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NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

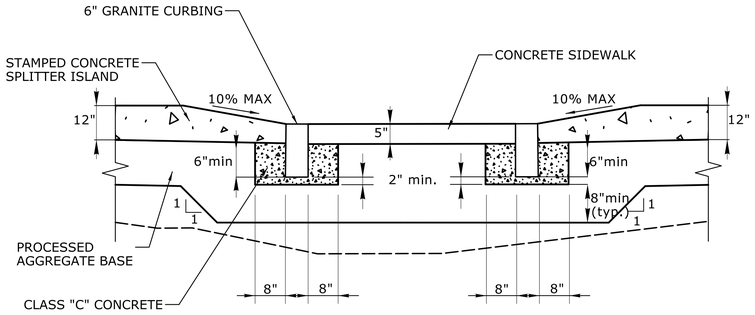
TOWN OF STAFFORD

PROJECT NO. 0134-0147

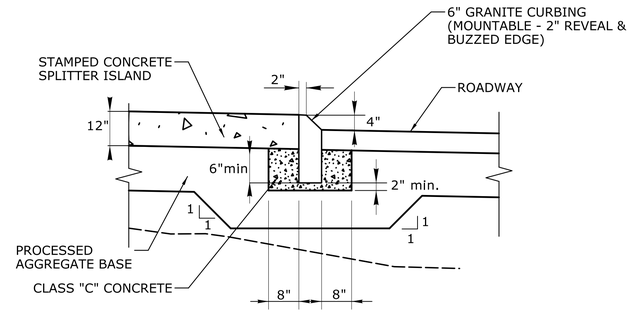
DRAWING TITLE: TYPICAL SECTIONS

DRAWING NO. TYP-02

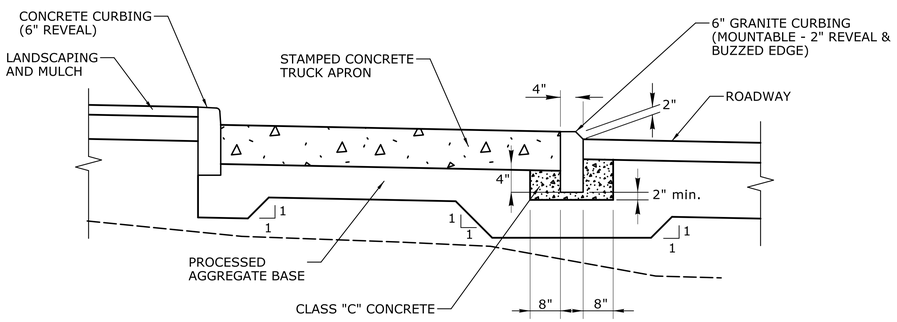
SHEET NO. 03.03



SECTION A-1
SPLITTER ISLAND
GRANITE CURBING WITH NO REVEAL

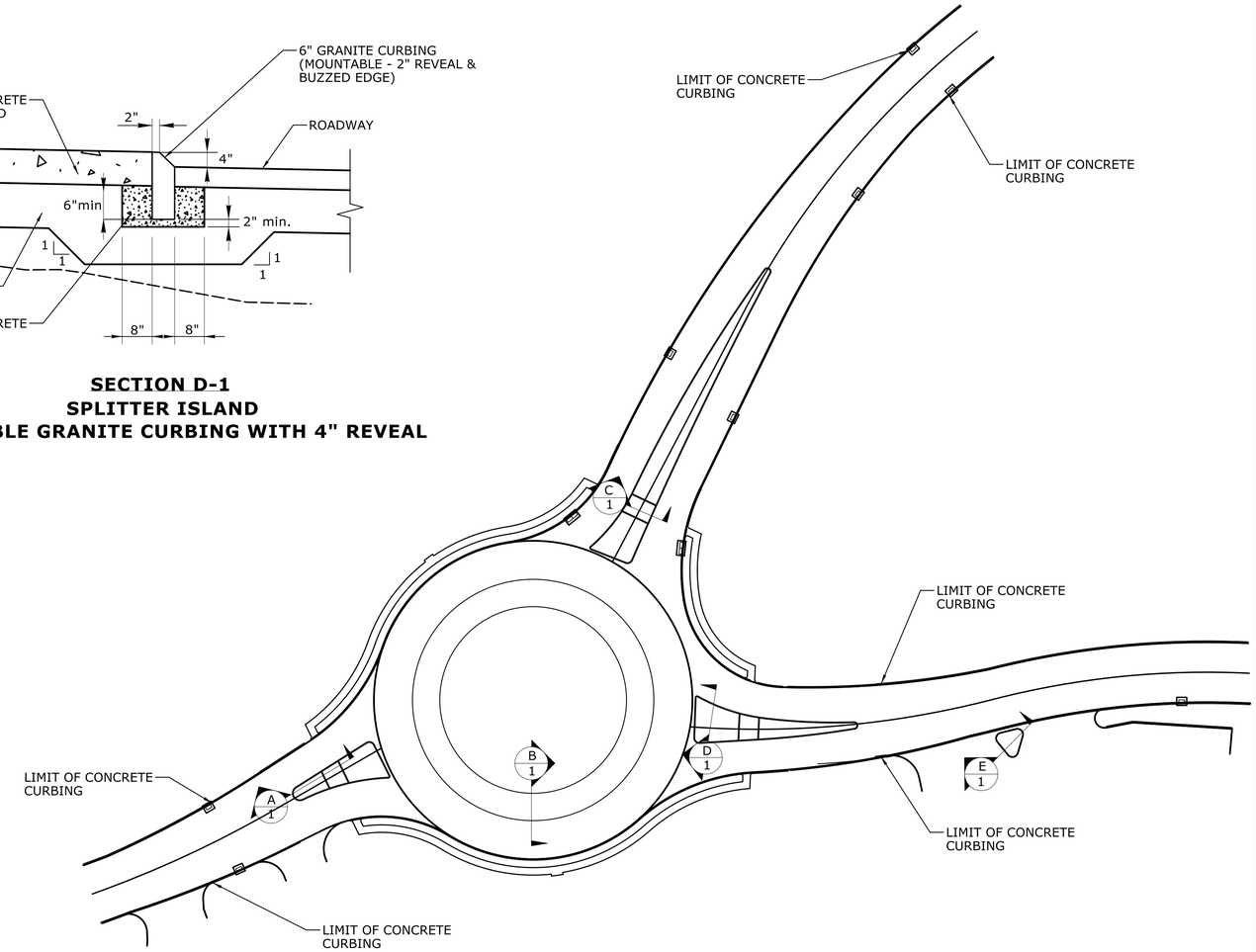


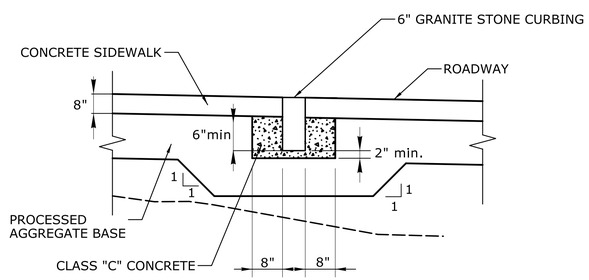
SECTION D-1
SPLITTER ISLAND
MOUNTABLE GRANITE CURBING WITH 4" REVEAL



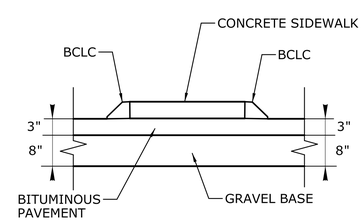
NOTE: REFER TO STRUCTURE PLANS FOR REINFORCING STEEL OF THE STAMPED CONCRETE TRUCK APRON

SECTION B-1
TRUCK APRON
MOUNTABLE GRANITE CURBING WITH 2" REVEAL

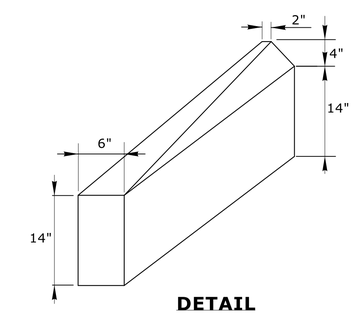




SECTION C-1
SPLITTER ISLAND
GRANITE CURBING WITH NO REVEAL



SECTION E-1
DRIVEWAY SPLITTER ISLAND
BITUMINOUS CONCRETE LIP CURBING



DETAIL
SPLITTER ISLAND
SLOPED GRANITE CURBING

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH
Plotted Date: 8/8/2019
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2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

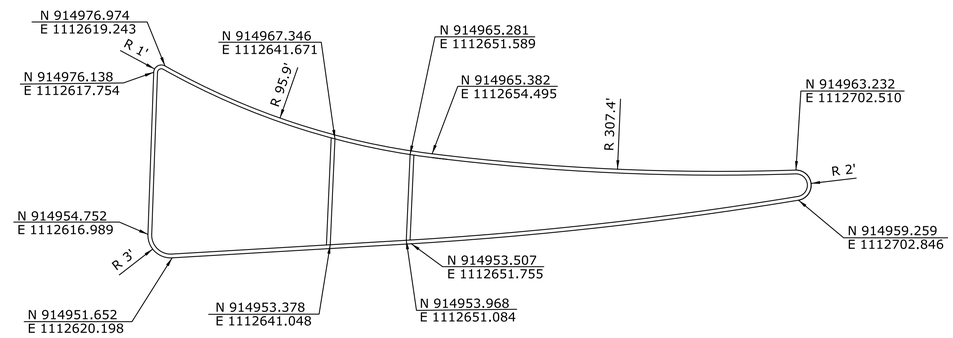
MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

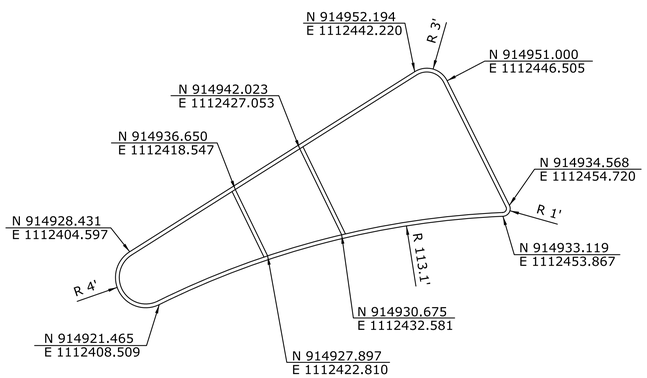
PROJECT NO. 0134-0147
DRAWING TITLE: MISCELLANEOUS DETAILS - CURB DETAILS

DRAWING NO. MDS-01
SHEET NO. 03.04

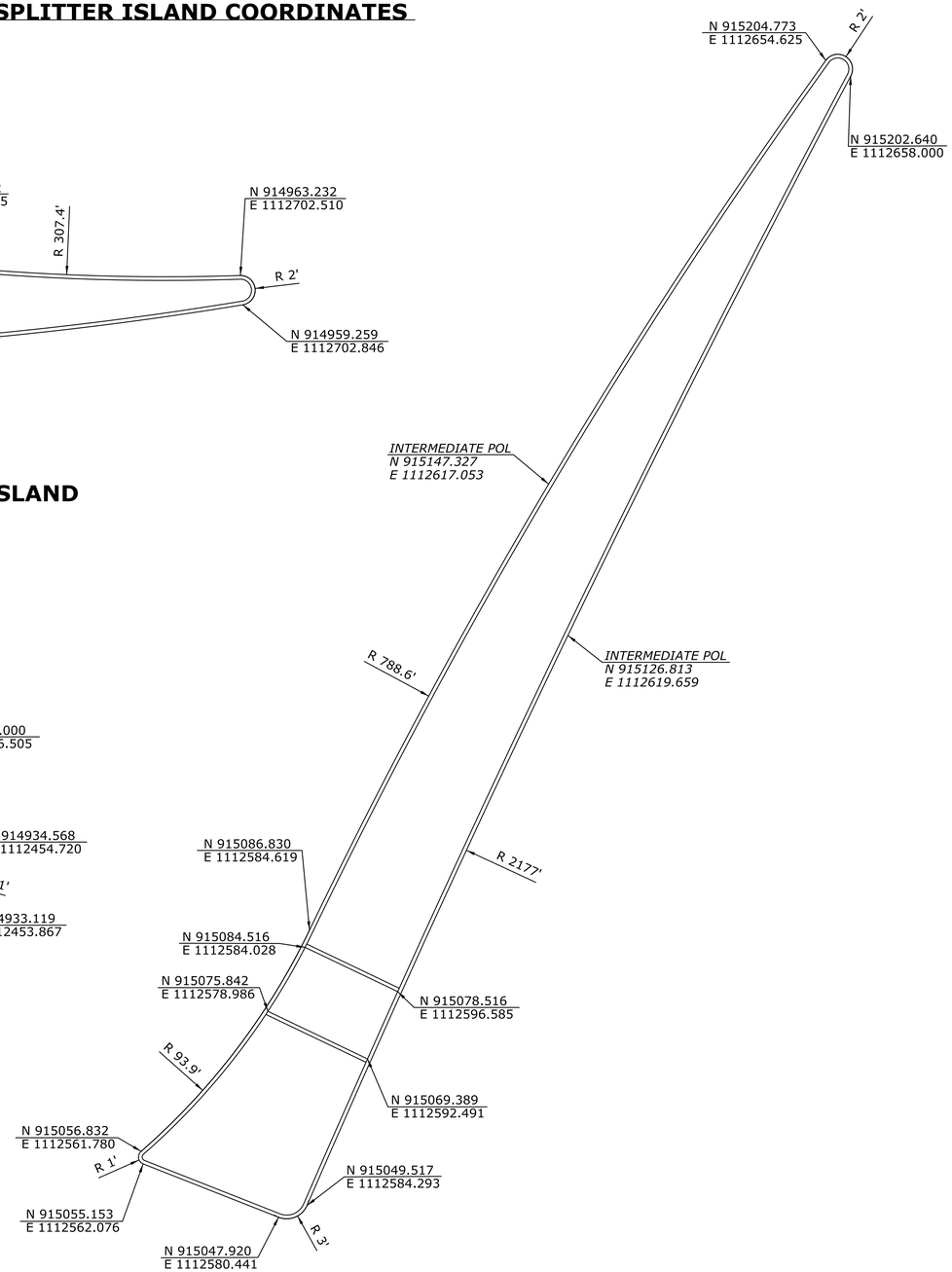
SPLITTER ISLAND COORDINATES



ROUTE 190 EAST SPLITTER ISLAND

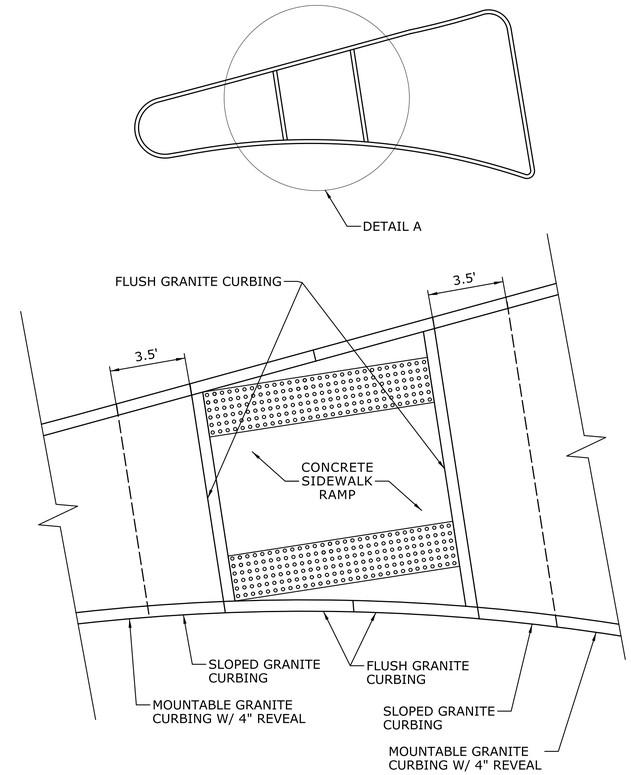


ROUTE 190 WEST SPLITTER ISLAND

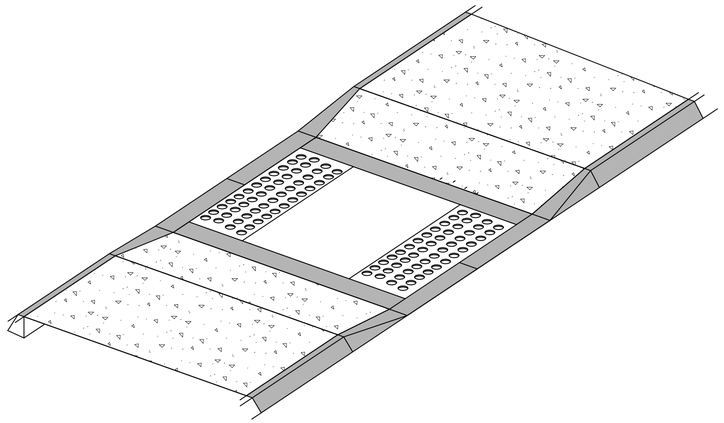


ROUTE 319 SPLITTER ISLAND

TYPICAL SPLITTER ISLAND DETAILS



DETAIL "A" PLAN VIEW



DETAIL "A" ISOMETRIC VIEW (N.T.S)

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-	-	-
-	-	-

0 10' 20'
HORIZONTAL SCALE
1"=10'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaul

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

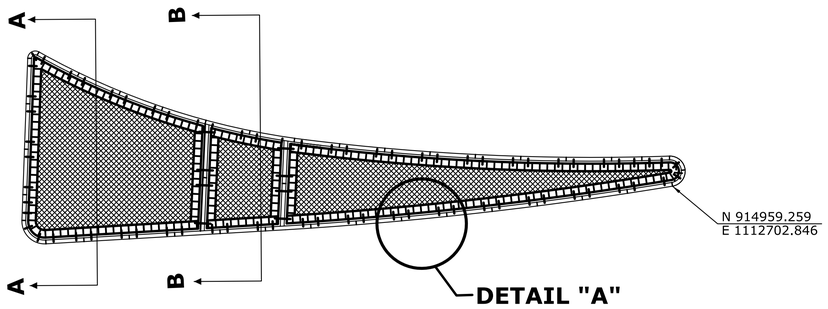
PROJECT NO. 0134-0147

DRAWING TITLE: MISCELLANOUS DETAILS
SPLITTER ISLAND DETAILS

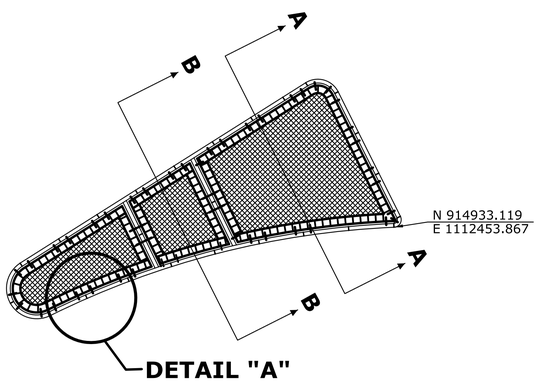
DRAWING NO.
MDS-02

SHEET NO.
03.05

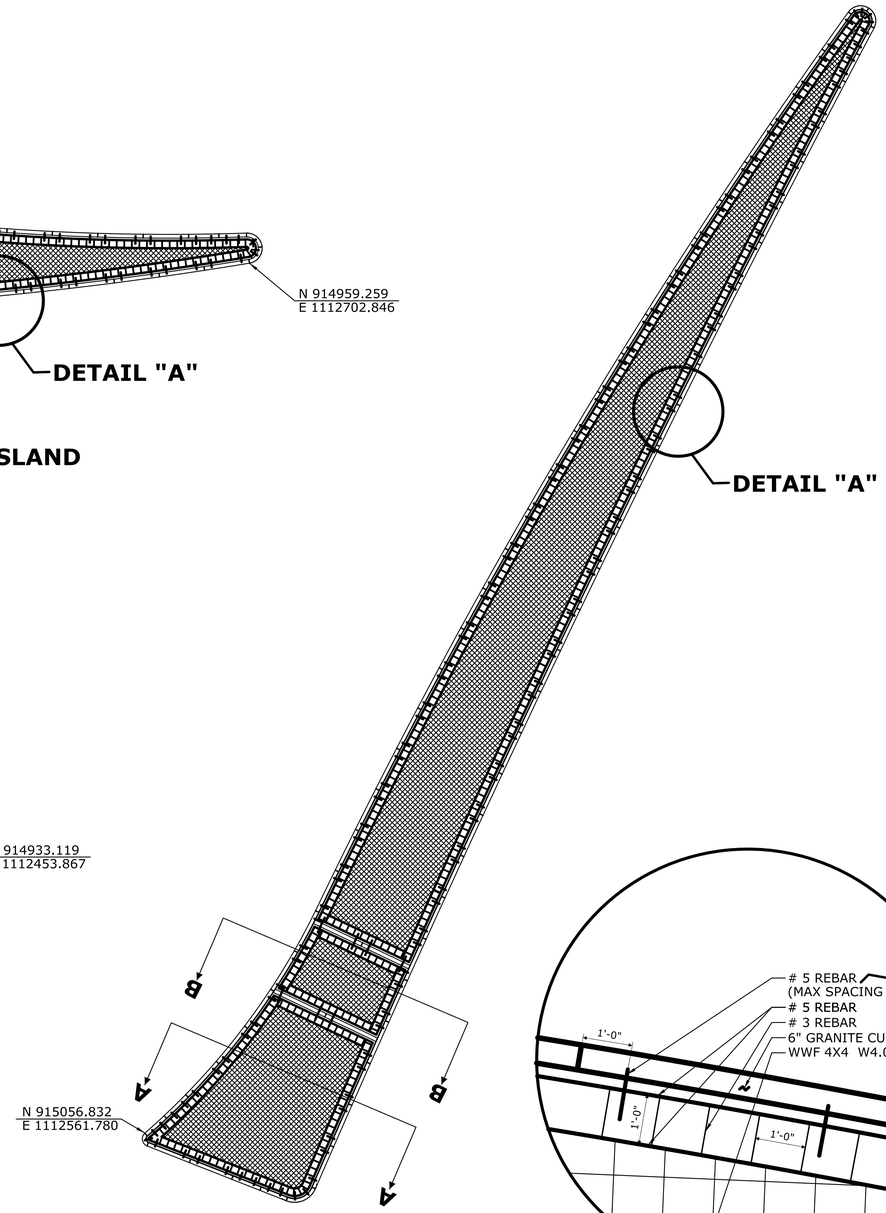
SPLITTER ISLAND REINFORCEMENT



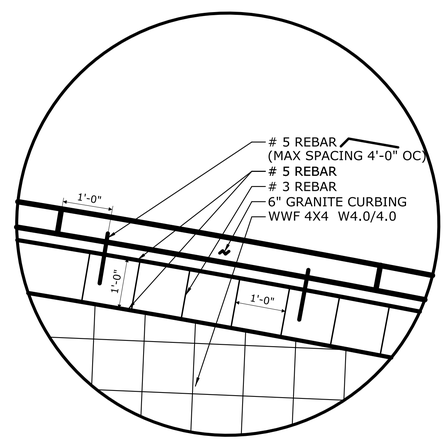
ROUTE 190 EAST SPLITTER ISLAND



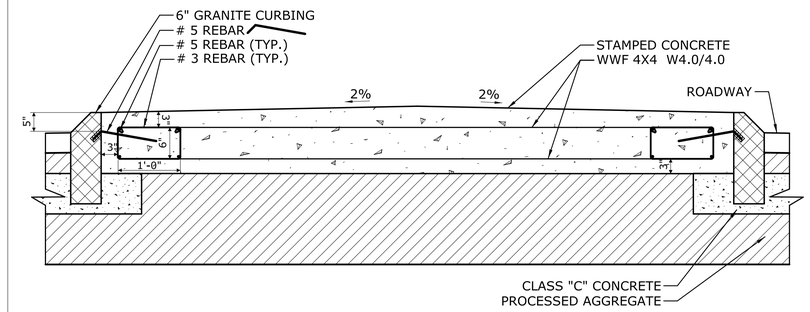
ROUTE 190 WEST SPLITTER ISLAND



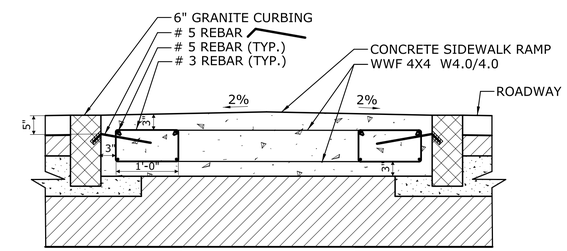
ROUTE 319 SPLITTER ISLAND



DETAIL "A" (N.T.S.)



SECTION A-A SPLITTER ISLAND MOUNTABLE GRANITE STONE CURBING (N.T.S.)



SECTION B-B SPLITTER ISLAND FLUSH GRANITE STONE CURBING (N.T.S.)

REINFORCEMENT NOTES

#3 AND #5 BARS SHALL CONFORM TO ASTM A615 GRADE 60. THESE BARS SHALL BE INCLUDED UNDER PAY ITEM "060200 - DEFORMED STEEL BARS"

WWF 4X4 W4.0/4.0 SHALL BE PAID FOR UNDER ITEM NUMBER 0602053 - WELDED WIRE FABRIC.

EMBEDMENT OF DOWEL INTO BACK FACE OF GRANITE CURBING SHALL BE A MINIMUM OF 3". DRILLING OF HOLES AND GROUTING SHALL BE INCLUDED UNDER PAY ITEM NUMBER(S) "0813021 - 6" GRANITE STONE CURBING" AND ITEM NUMBER - "0813031 6" GRANITE CURVED STONE CURBING".

CONTROL JOINTS SHALL BE INSTALLED PERPENDICULAR TO THE ALIGNMENT AT STANDARD INTERVALS.

DESIGNER/DRAFTER: JJ
CHECKED BY: EAJ
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0 10' 20'
HORIZONTAL SCALE 1"=10'

SIGNATURE/BLOCK:

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NEWINGTON, CT 06111

APPROVED BY:

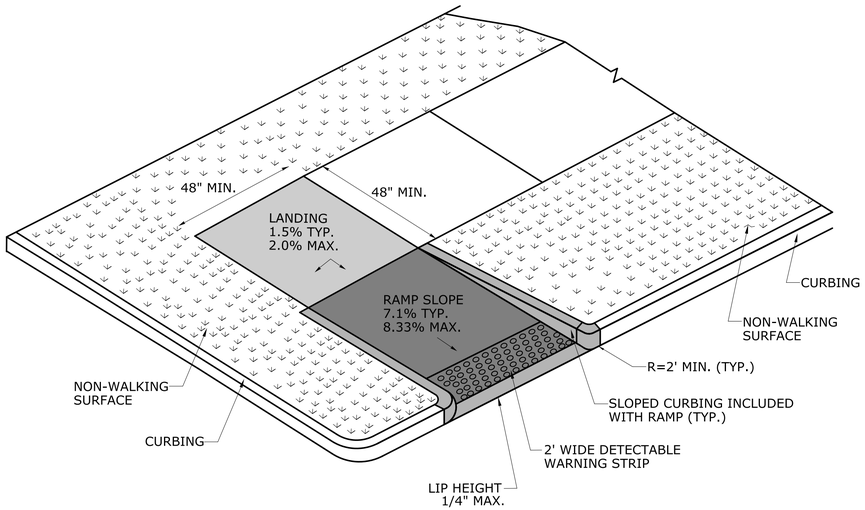
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

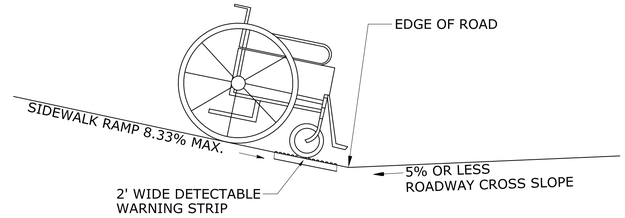
TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: MISCELLANEOUS DETAILS
SPLITTER ISLAND REINFORCEMENT DETAILS

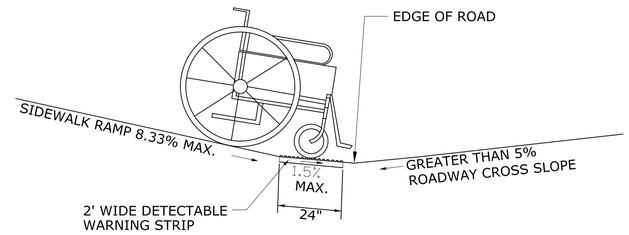
DRAWING NO. MDS-03
SHEET NO. 03.06



RESTRICTED PEDESTRIAN CROSSING SIDEWALK RAMP WITH NON-WALKING SURFACE



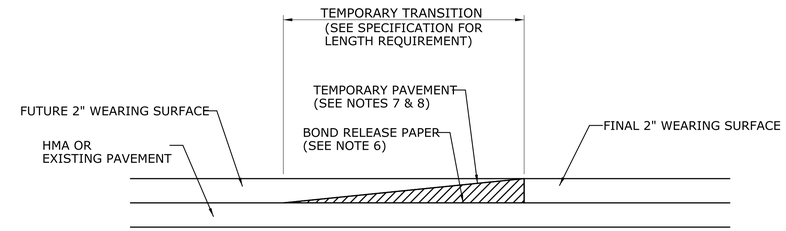
SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS



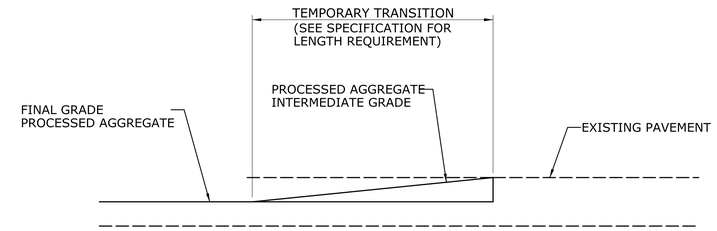
SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF GREATER THAN 5%

NOTES:

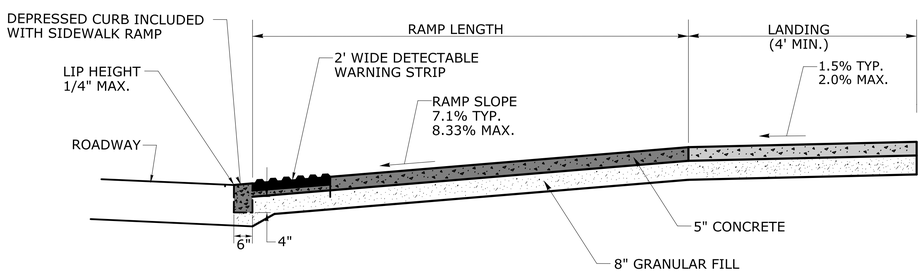
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1#4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.
5. TEMPORARY TRANSITIONS SHALL CONFORM TO SECTION 4.06 OF THE CONTRACT DOCUMENTS.
6. BOND RELEASE PAPER WILL NOT BE MEASURED FOR PAVEMENT BUT THE COST ASSOCIATED WITH FURNISHING AND INSTALLING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE WORK.
7. TEMPORARY TRANSITION IS TO BE REMOVED PRIOR TO CONTINUATION OF OVERLAY. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE REMOVAL OF TEMPORARY TRANSITION BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
8. TEMPORARY PAVEMENT AND PROCESSED AGGREGATE SHALL BE PAID FOR IN ACCORDANCE WITH CONTRACT UNIT PRICES FOR EACH ITEM.



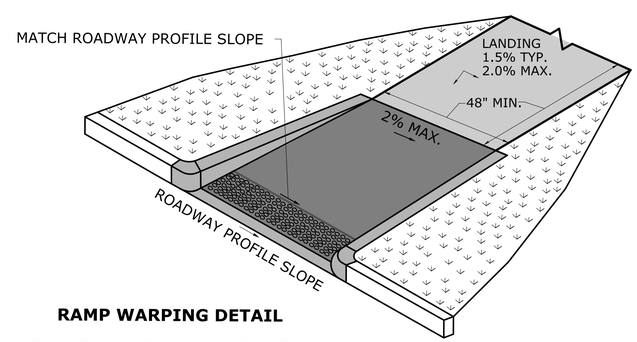
TEMPORARY PAVEMENT TRANSITION FOR INTERMEDIATE PAVING COURSES



TEMPORARY PAVEMENT TRANSITION AT LIMIT OF FULL DEPTH RECONSTRUCTION

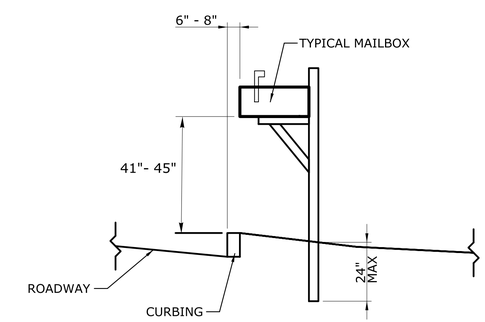


TYPICAL SECTION THROUGH CENTER OF SIDEWALK RAMP



RAMP WARPING DETAIL

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3 % PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.



ALL COSTS TO BE INCLUDED IN THE COST OF "CLEARING AND GRUBBING"

TYPICAL MAILBOX RESET DETAIL

DESIGNER/DRAFTER: JLG
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OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

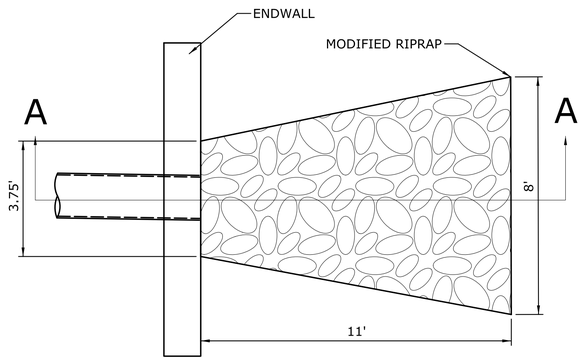
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

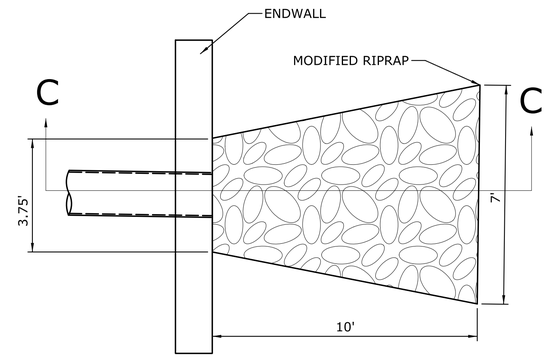
TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: MISCELLANEOUS DETAILS

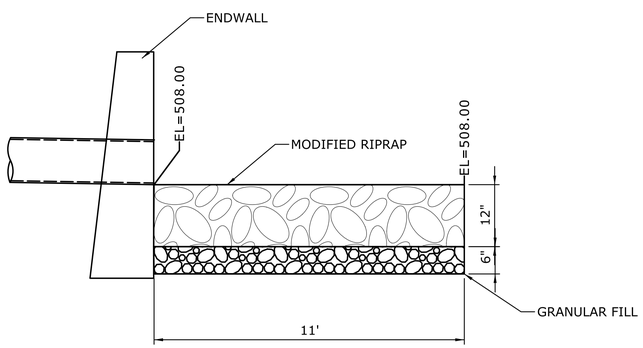
DRAWING NO. MDS-04
SHEET NO. 03.07



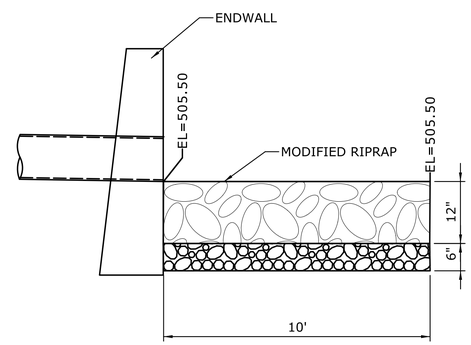
TYPE B
MODIFIED RIPRAP APRON
STA. 25+60 LT



TYPE B
MODIFIED RIPRAP APRON
STA. 51+25 RT



SECTION A-A



SECTION C-C

ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HIGHWAY STANDARD SHEET HW-506_01 AND PAID FOR UNDER ITEM NUMBER 0506001 "CONCRETE STEPS FOR COPING"

DESIGNER/DRAFTER: JLG
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2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

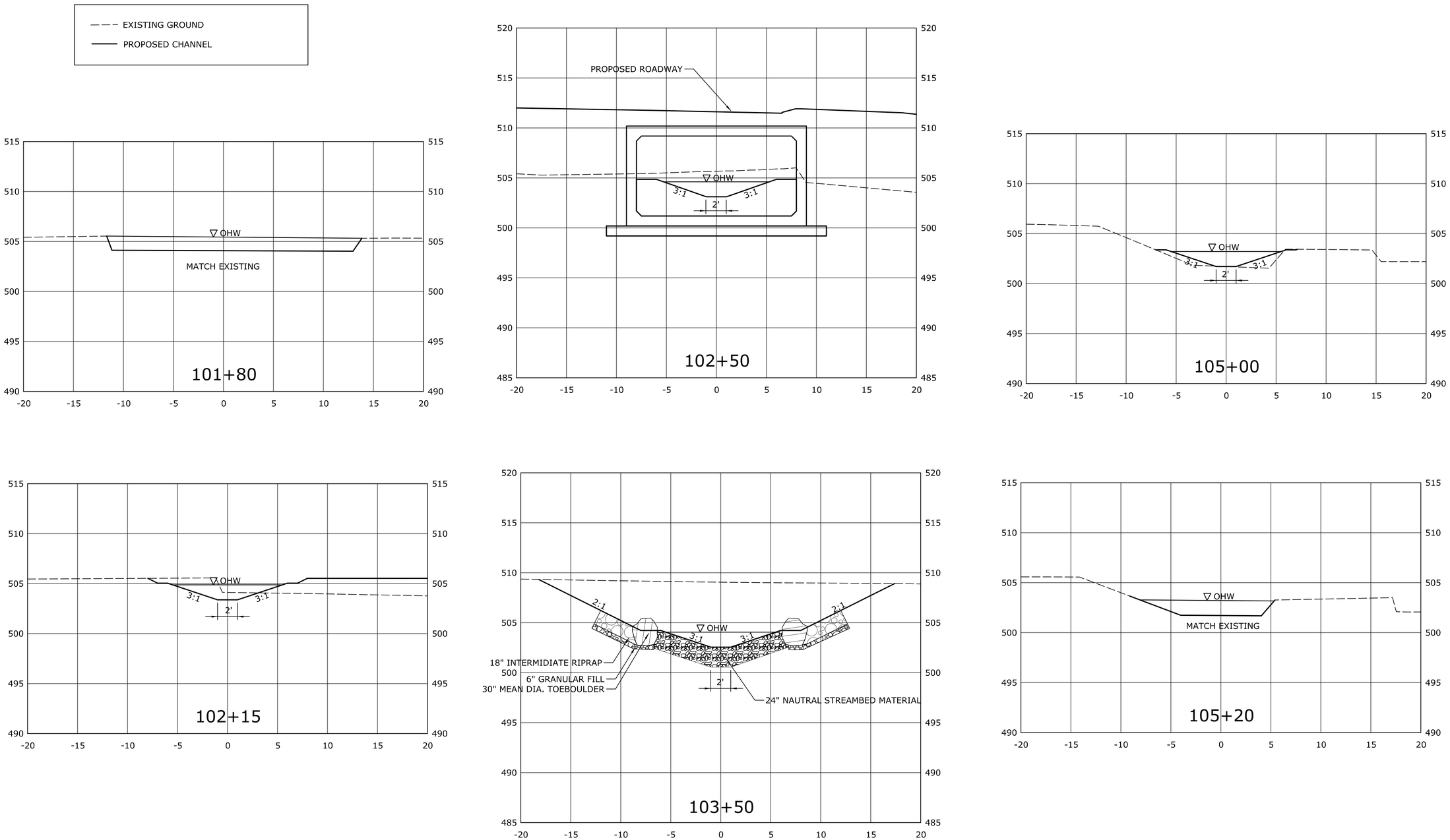
MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: MISCELLANEOUS DETAILS - RIPRAP APRONS

DRAWING NO. MDS-05
SHEET NO. 03.08

STA.101+10 TO STA.105+70



DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/13/2019
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0314-0147

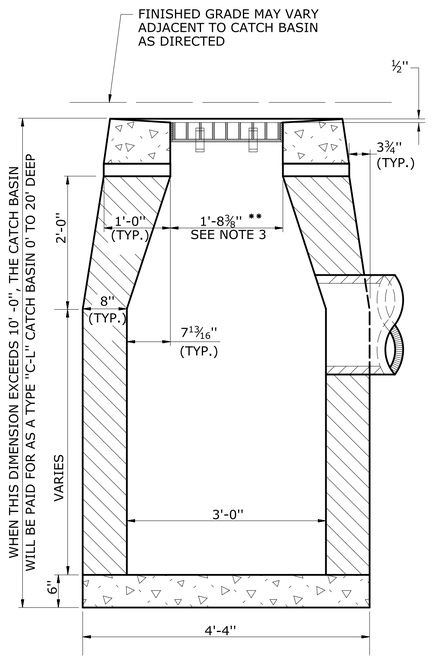
DRAWING TITLE: CHANNEL RECONSTRUCTION CROSS SECTIONS

DRAWING NO.
MDS-06

SHEET NO.
03.09

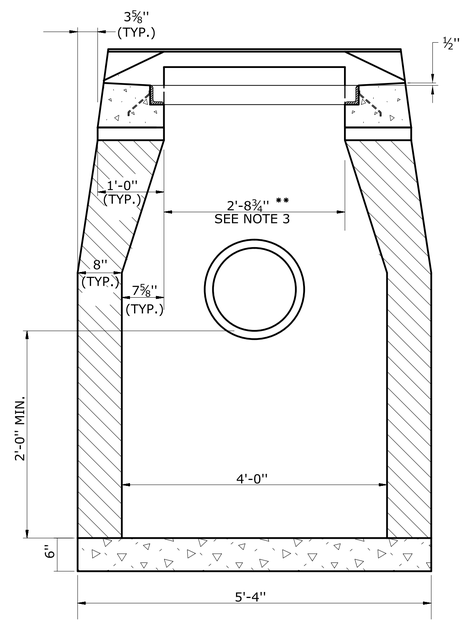
NOTES:

1. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
2. 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.
3. 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 **.
4. 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'.
5. 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.
6. TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE AT GUTTER LINE.



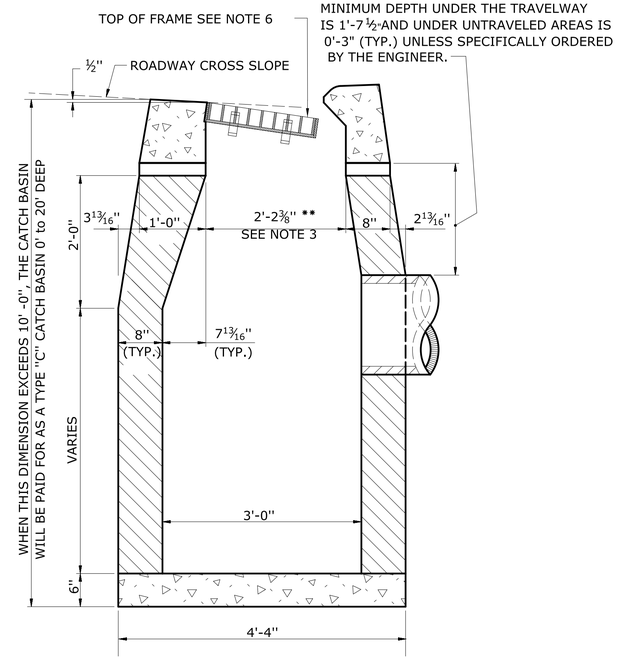
SECTION B

TYPE "C-L" CATCH BASIN



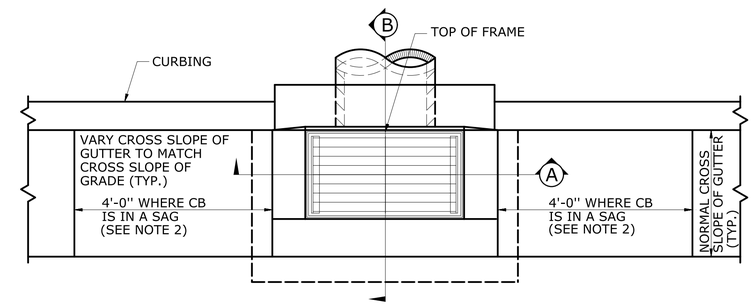
SECTION A

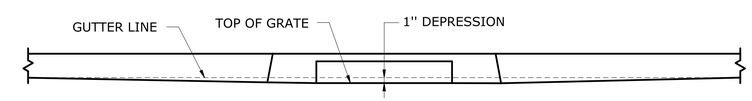
TYPE "C" & "C-L" CATCH BASIN (TYPE "C" TOP SHOWN)



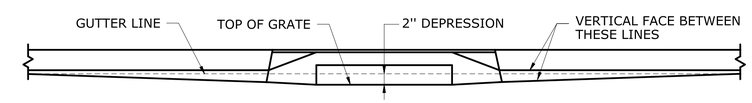
SECTION B

TYPE "C" CATCH BASIN



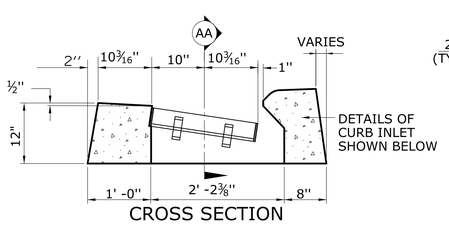


CATCH BASINS IN A LINE WITH 6" CONCRETE CURBING OR 6" STONE CURBING

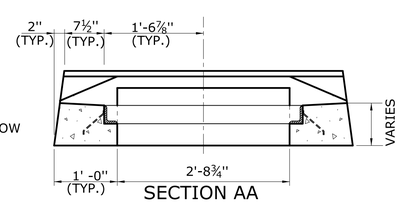


CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

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

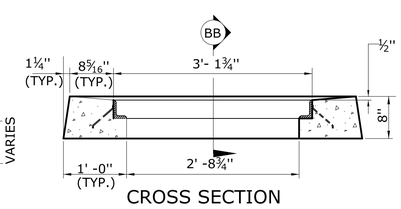


CROSS SECTION

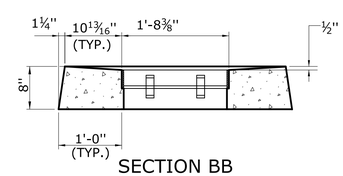


SECTION AA

TYPE "C" CATCH BASIN TOP



CROSS SECTION



SECTION BB

TYPE "C-L" CATCH BASIN TOP

DESIGNER/DRAFTER: JLG
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2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147

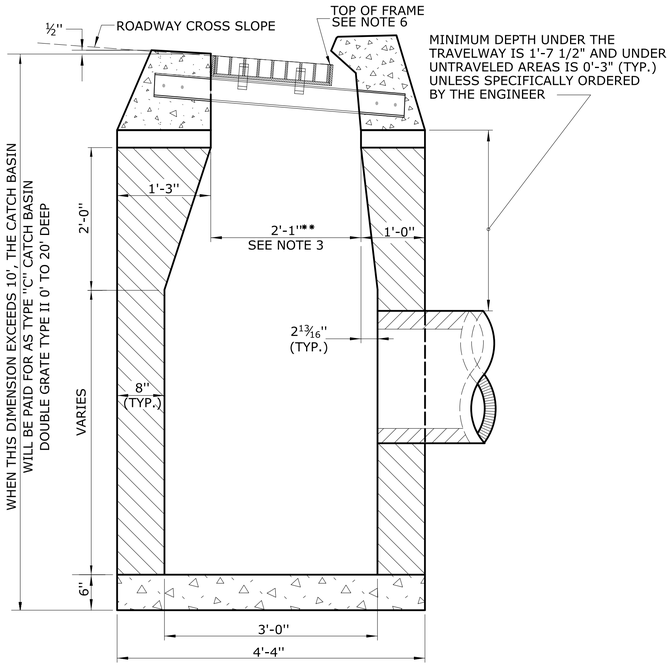
DRAWING TITLE: MISCELLANEOUS DETAILS CATCH BASINS

DRAWING NO. MDS-07

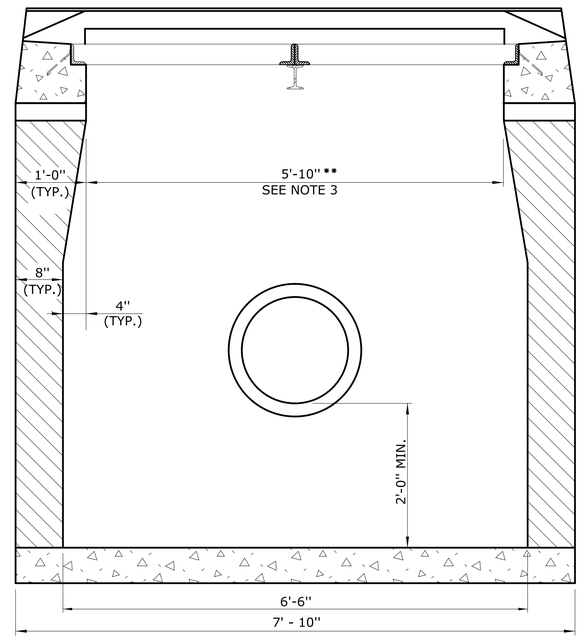
SHEET NO. 03.10

NOTES:

1. ALL THE FACES OF THE STRUCTURE IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
2. 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.
3. 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 **.
4. 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'.
5. 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.
6. TOP OF FRAME ELEVATION SHALL BE MEASURED IN BETWEEN BOTH GRATES AT THE GUTTER.

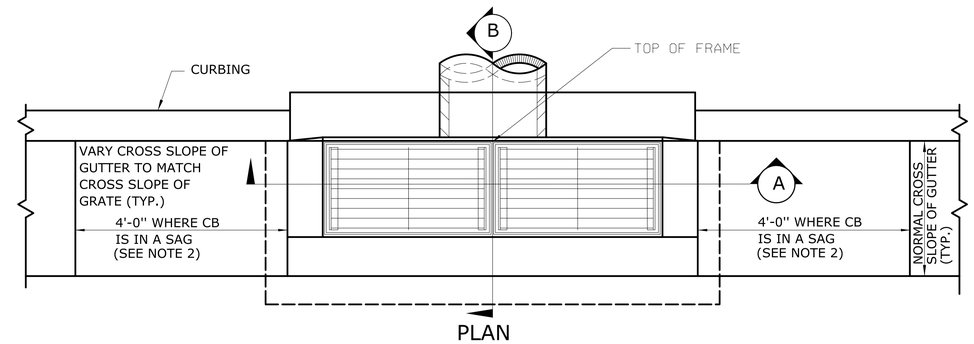


SECTION B



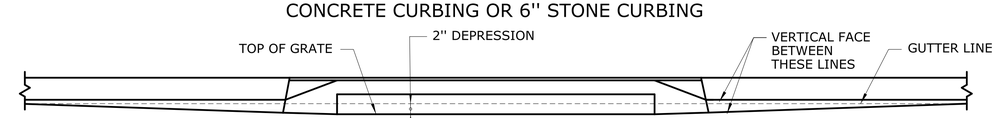
SECTION A

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II



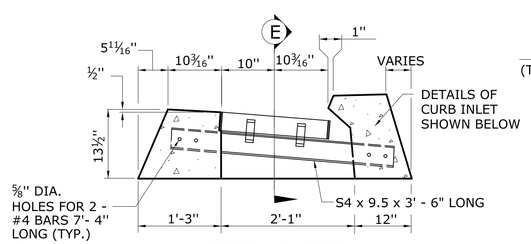
PLAN

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

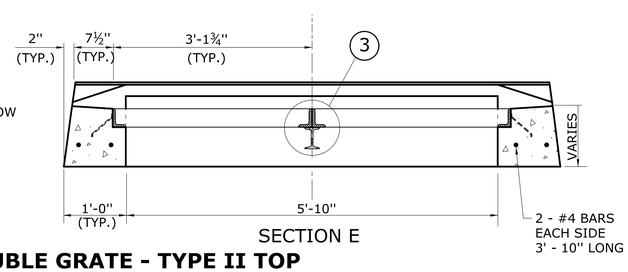


CATCH BASINS IN A LINE WITH 6'' BITUMINOUS
CONCRETE LIP CURBING (MACHINE FORMED)

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



CROSS SECTION



SECTION E

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

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH
Plotted Date: 8/8/2019
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SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

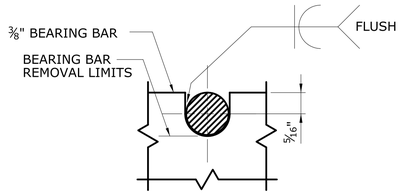
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

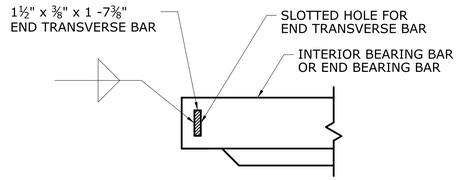
PROJECT NO. 0134-0147
DRAWING TITLE: MISCELLANEOUS DETAILS DOUBLE CATCH BASIN

DRAWING NO. MDS-08
SHEET NO. 03.11

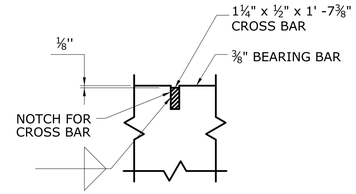


NOTE:
⅝" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

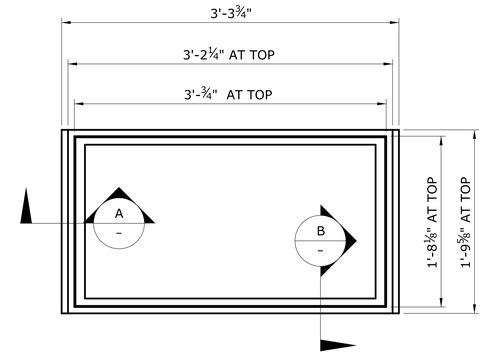
ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A



END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A AND B



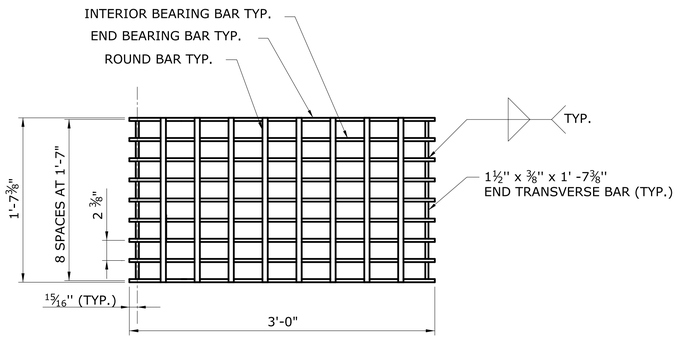
CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B



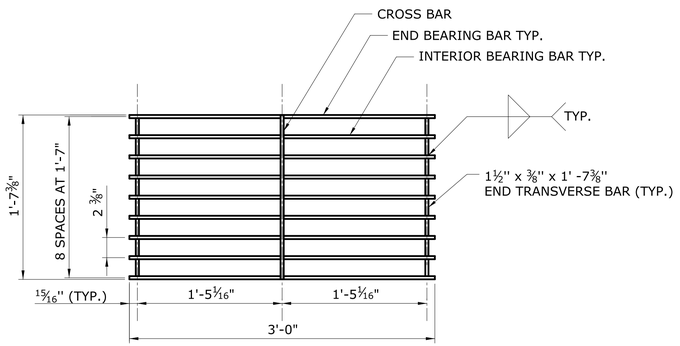
PLAN

NOTES:

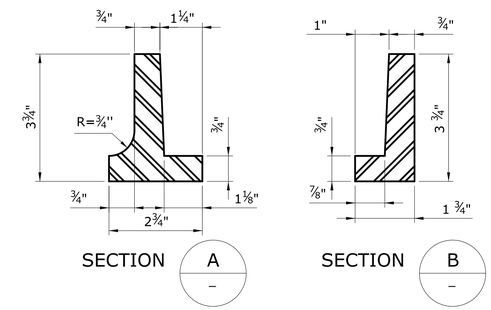
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. DO NOT GALVANIZE CAST IRON FRAMES.
4. DIMENSIONAL TOLERANCES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



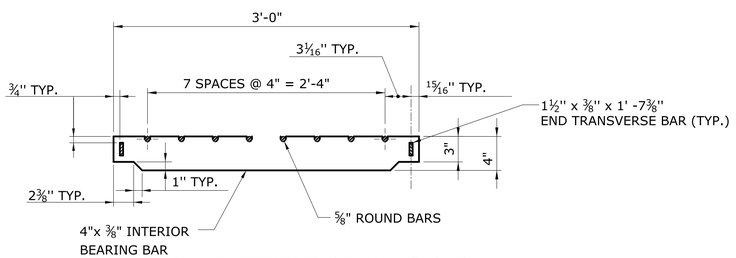
PLAN



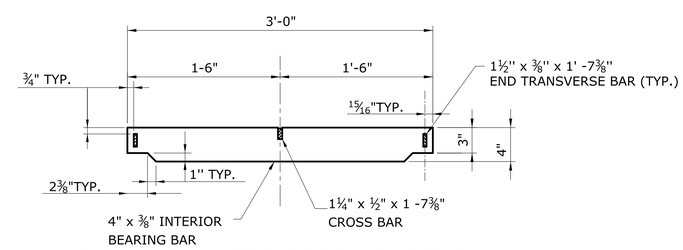
PLAN



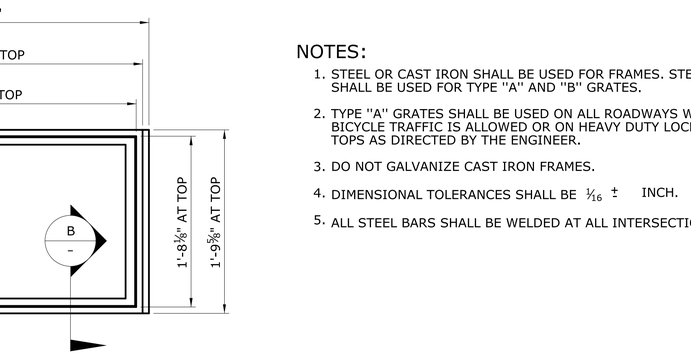
CAST IRON FRAME ALTERNATE



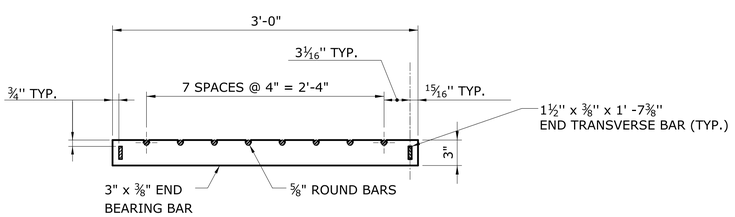
ELEVATION- INTERIOR BEARING BAR



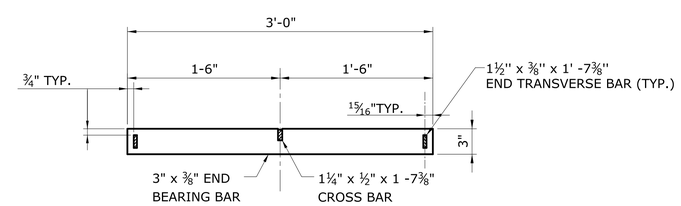
ELEVATION- INTERIOR BEARING BAR



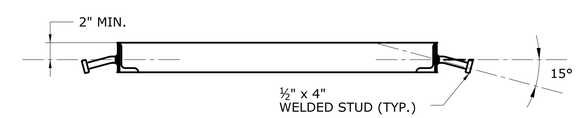
PLAN



ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A



ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B



WELDED STUD ANCHOR DETAILS
STEEL FRAME

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH
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2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:
Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNABOUT
AT ROUTE 190 AND ROUTE 319

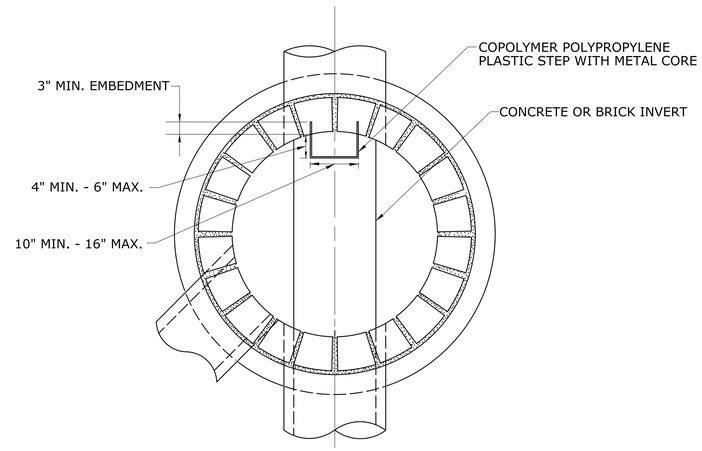
TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: MISCELLANEOUS DETAILS
CATCH BASIN FRAMES AND GRATES

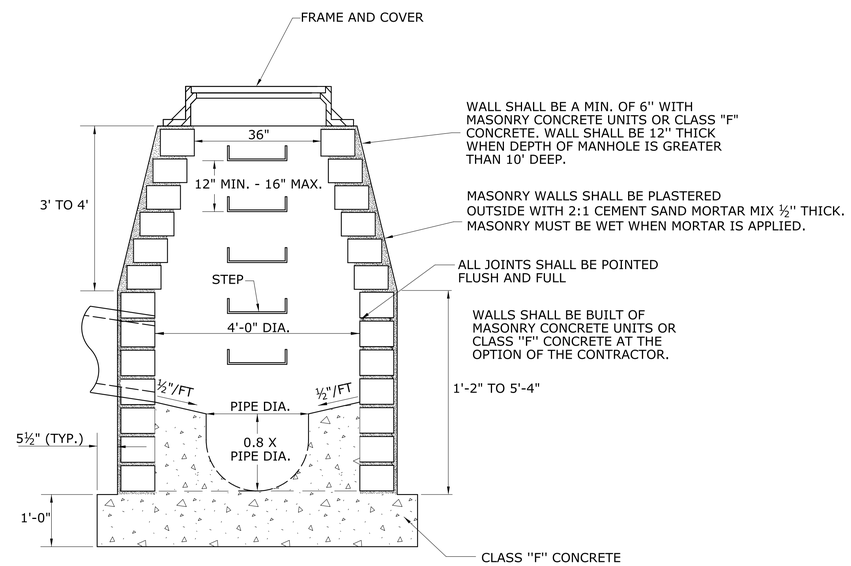
DRAWING NO. MDS-09
SHEET NO. 03.12

NOTES:

1. SEE GUIDE SHEET NO. DGS-10a OR DGS-10b FOR MANHOLE FRAME, GRATE AND COVER DETAIL.



PLAN



MANHOLE SECTION

DESIGNER/DRAFTER: JLG
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MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147

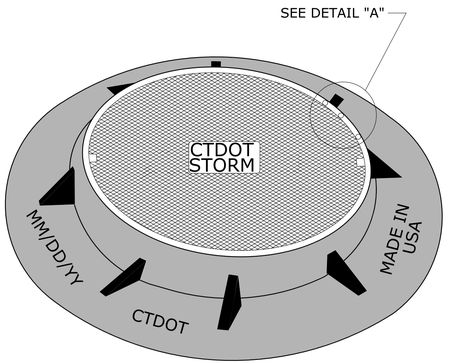
DRAWING TITLE: MISCELLANEOUS DETAILS
MANHOLE

DRAWING NO. MDS-10

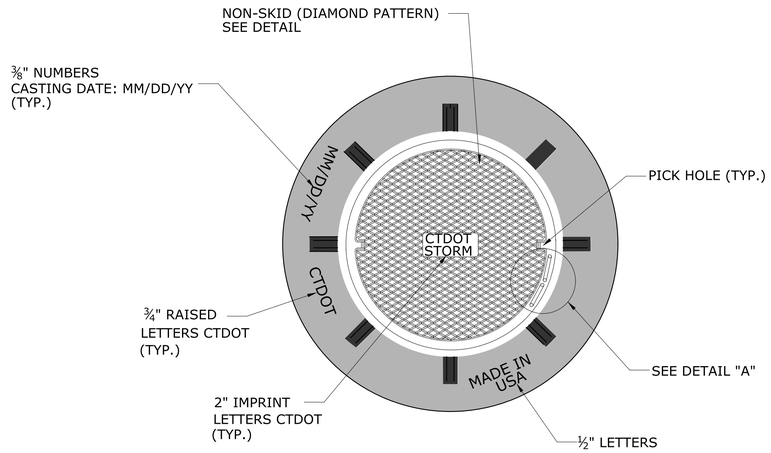
SHEET NO. 03.13

NOTES:

1. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.



MANHOLE FRAME AND COVER



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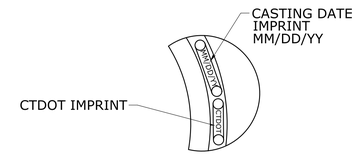
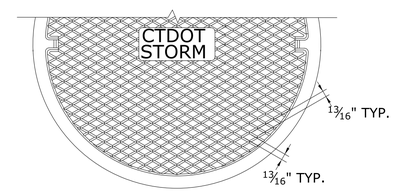
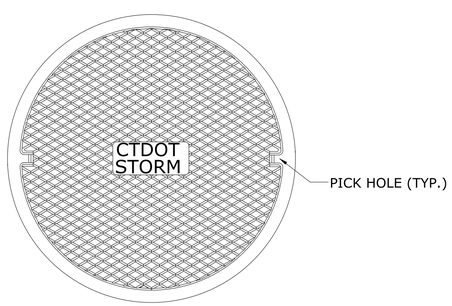


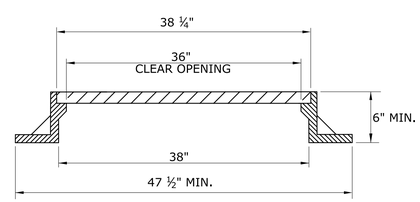
DETAIL "A"



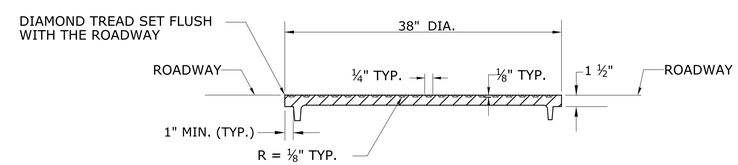
DIAMOND PATTERN PLAN



MANHOLE COVER PLAN



MANHOLE FRAME AND COVER



MANHOLE COVER WITH DIAMOND PATTERN

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Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

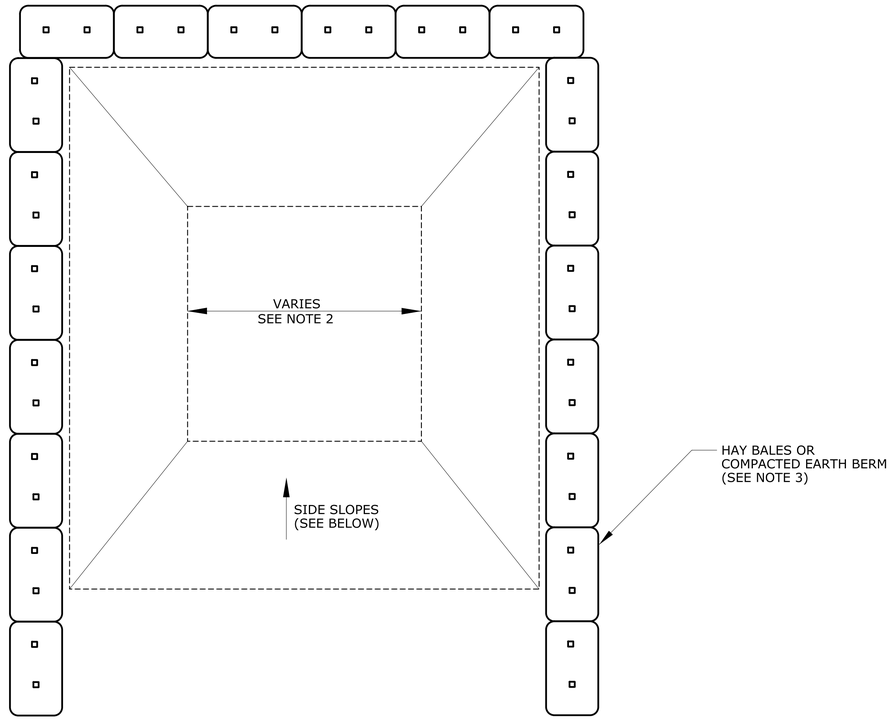
TOWN OF STAFFORD

PROJECT NO. 0134-0147

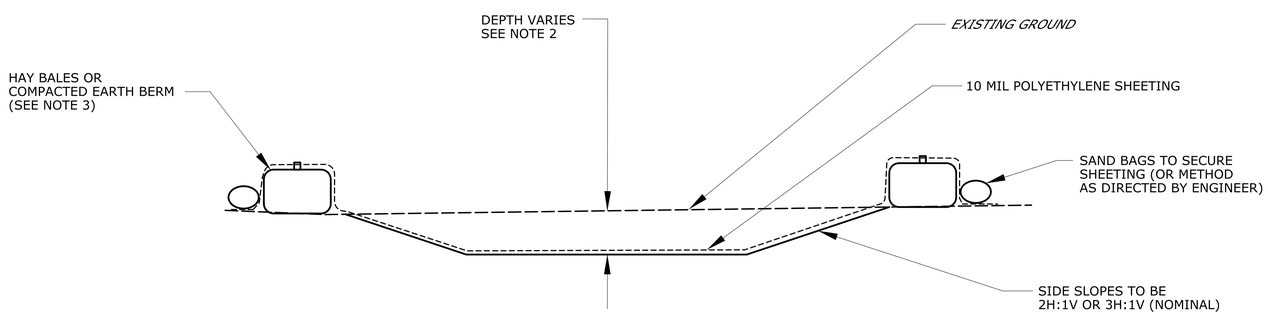
DRAWING TITLE: MISCELLANEOUS DETAILS
MANHOLE FRAME AND COVER

DRAWING NO. MDS-11

SHEET NO. 03.14



PLAN



CONCRETE WASHOUT AREA
NOT TO SCALE
(SEE NOTE 2)

NOTES:

1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.

2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREA(S) WITH THE PROJECT'S EROSION AND SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.

   LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOODPLAIN.

   SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.

3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ENGINEER, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.

4. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.

5. WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS, OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE CHECKED AFTER HEAVY RAINS.

6. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S DEPTH. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.

7. PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST OF THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION.

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APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE: MISCELLANEOUS DETAILS
CONCRETE WASHOUT DETAIL

DRAWING NO.
MDS-12

SHEET NO.
03.15

SEQUENCE 1

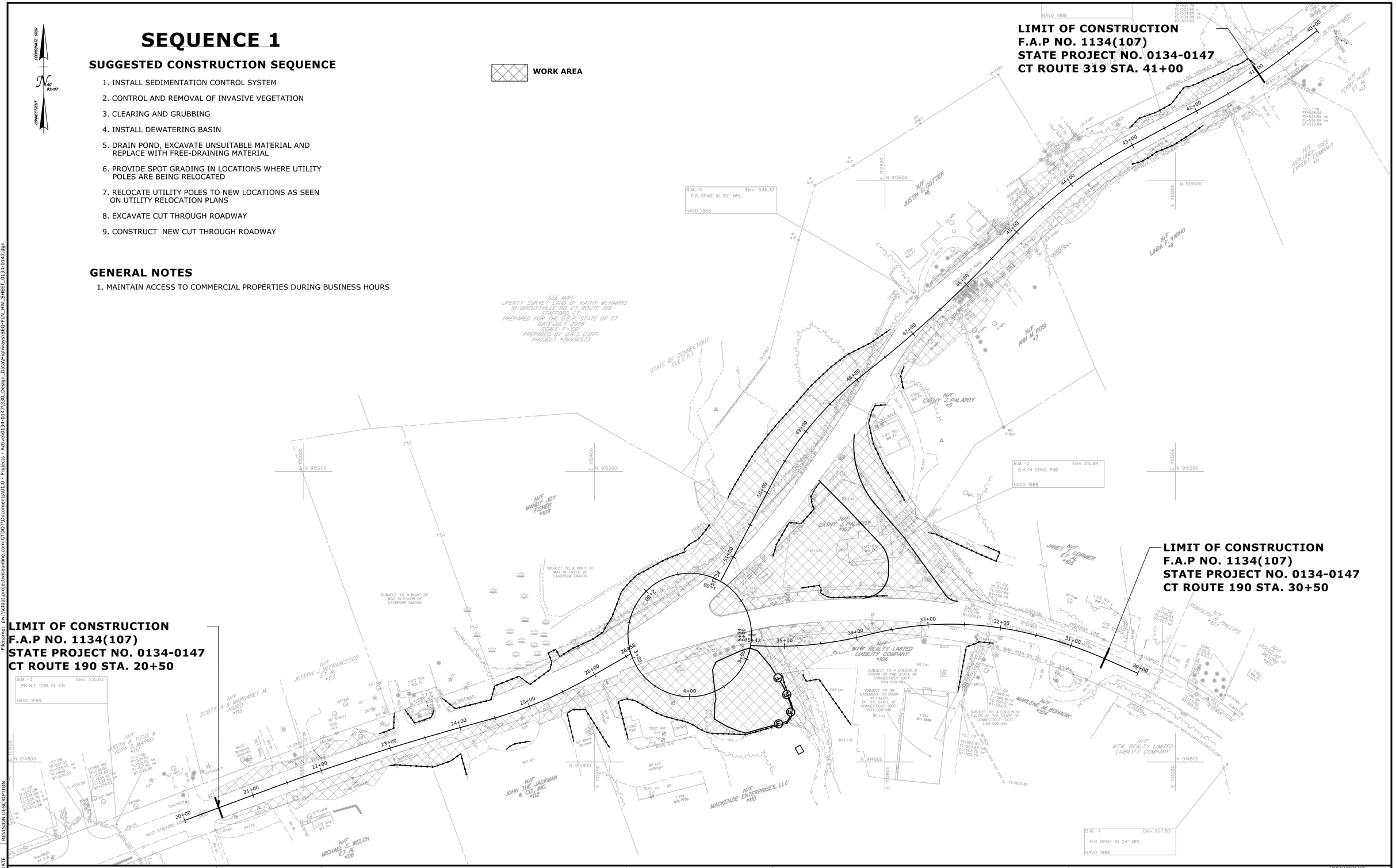
SUGGESTED CONSTRUCTION SEQUENCE

1. INSTALL SEDIMENTATION CONTROL SYSTEM
2. CONTROL AND REMOVAL OF INVASIVE VEGETATION
3. CLEARING AND GRUBBING
4. INSTALL DEWATERING BASIN
5. DRAIN POND, EXCAVATE UNSUITABLE MATERIAL AND REPLACE WITH FREE-DRAINING MATERIAL
6. PROVIDE SPOT GRADING IN LOCATIONS WHERE UTILITY POLES ARE BEING RELOCATED
7. RELOCATE UTILITY POLES TO NEW LOCATIONS AS SEEN ON UTILITY RELOCATION PLANS
8. EXCAVATE CUT THROUGH ROADWAY
9. CONSTRUCT NEW CUT THROUGH ROADWAY

GENERAL NOTES

1. MAINTAIN ACCESS TO COMMERCIAL PROPERTIES DURING BUSINESS HOURS

WORK AREA



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0 60' 120'
HORIZONTAL SCALE
1"=60'

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2800 BERLIN TURNPIKE
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APPROVED BY:

Matthew Vaul

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: SEQUENCE PLAN

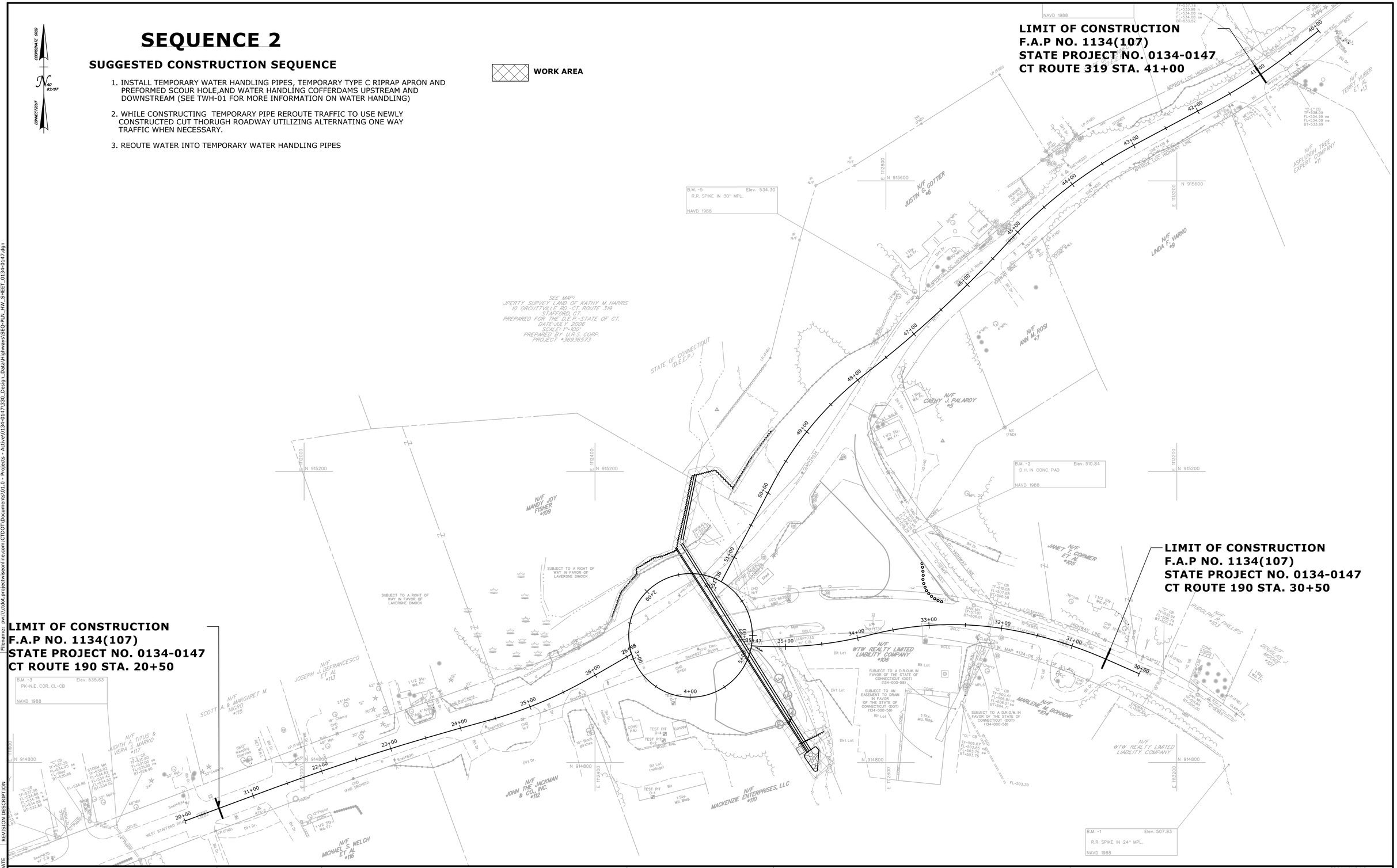
DRAWING NO. SEQ-01
SHEET NO. 03.16

SEQUENCE 2

SUGGESTED CONSTRUCTION SEQUENCE

1. INSTALL TEMPORARY WATER HANDLING PIPES, TEMPORARY TYPE C RIPRAP APRON AND PREFORMED SCOUR HOLE,AND WATER HANDLING COFFERDAMS UPSTREAM AND DOWNSTREAM (SEE TWH-01 FOR MORE INFORMATION ON WATER HANDLING)
2. WHILE CONSTRUCTING TEMPORARY PIPE REROUTE TRAFFIC TO USE NEWLY CONSTRUCTED CUT THORUGH ROADWAY UTILIZING ALTERNATING ONE WAY TRAFFIC WHEN NECESSARY.
3. REOUTE WATER INTO TEMPORARY WATER HANDLING PIPES

WORK AREA



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MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: SEQUENCE PLAN

DRAWING NO. SEQ-02
SHEET NO. 03.17

SEQUENCE 3

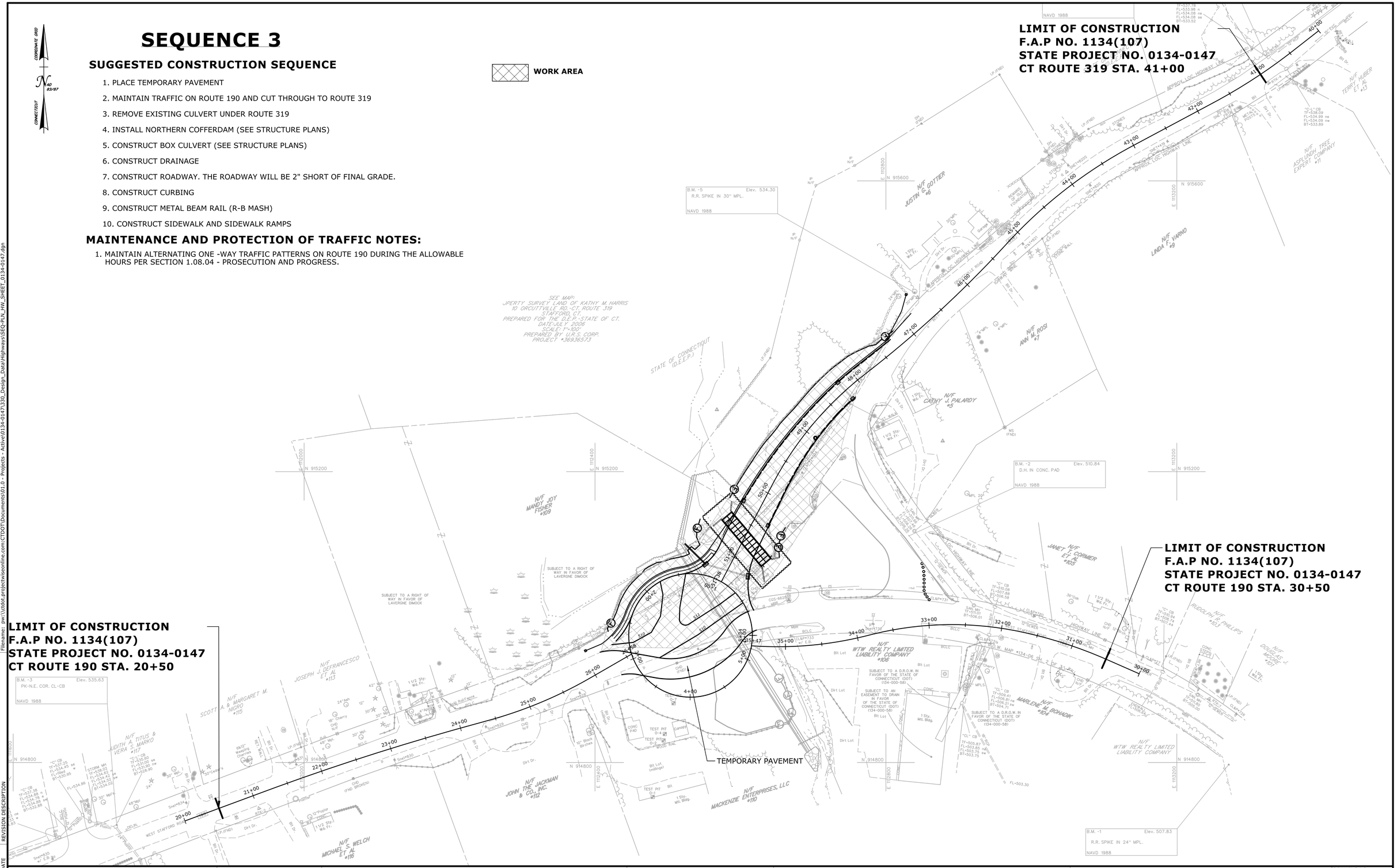
SUGGESTED CONSTRUCTION SEQUENCE

1. PLACE TEMPORARY PAVEMENT
2. MAINTAIN TRAFFIC ON ROUTE 190 AND CUT THROUGH TO ROUTE 319
3. REMOVE EXISTING CULVERT UNDER ROUTE 319
4. INSTALL NORTHERN COFFERDAM (SEE STRUCTURE PLANS)
5. CONSTRUCT BOX CULVERT (SEE STRUCTURE PLANS)
6. CONSTRUCT DRAINAGE
7. CONSTRUCT ROADWAY. THE ROADWAY WILL BE 2" SHORT OF FINAL GRADE.
8. CONSTRUCT CURBING
9. CONSTRUCT METAL BEAM RAIL (R-B MASH)
10. CONSTRUCT SIDEWALK AND SIDEWALK RAMPS

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. MAINTAIN ALTERNATING ONE -WAY TRAFFIC PATTERNS ON ROUTE 190 DURING THE ALLOWABLE HOURS PER SECTION 1.08.04 - PROSECUTION AND PROGRESS.

WORK AREA

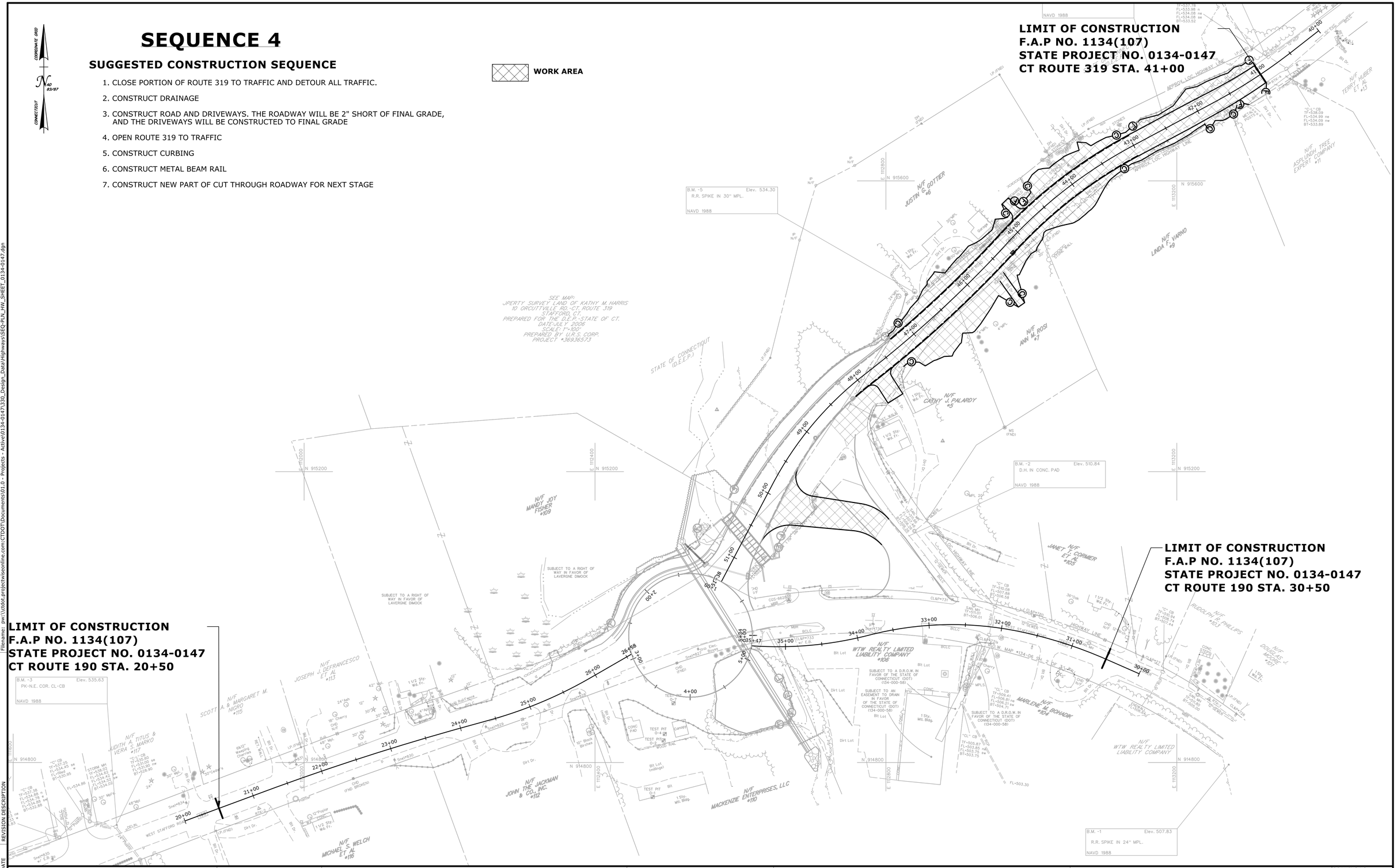


SEQUENCE 4

SUGGESTED CONSTRUCTION SEQUENCE

1. CLOSE PORTION OF ROUTE 319 TO TRAFFIC AND DETOUR ALL TRAFFIC.
2. CONSTRUCT DRAINAGE
3. CONSTRUCT ROAD AND DRIVEWAYS. THE ROADWAY WILL BE 2" SHORT OF FINAL GRADE, AND THE DRIVEWAYS WILL BE CONSTRUCTED TO FINAL GRADE
4. OPEN ROUTE 319 TO TRAFFIC
5. CONSTRUCT CURBING
6. CONSTRUCT METAL BEAM RAIL
7. CONSTRUCT NEW PART OF CUT THROUGH ROADWAY FOR NEXT STAGE

WORK AREA



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0 60' 120'
HORIZONTAL SCALE 1"=60'

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APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: SEQUENCE PLAN

DRAWING NO. SEQ-04
SHEET NO. 03.19

SEQUENCE 5

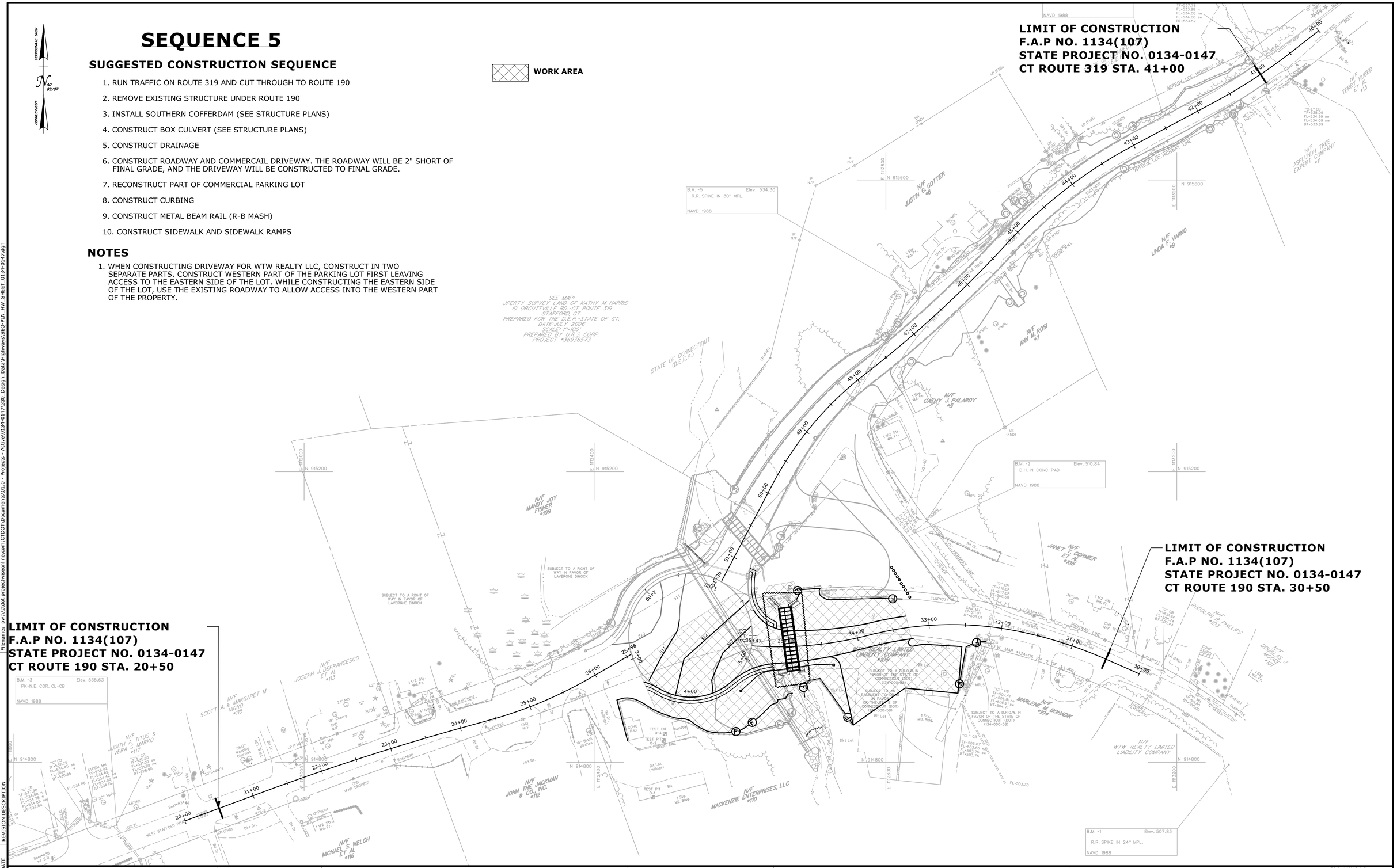
SUGGESTED CONSTRUCTION SEQUENCE

1. RUN TRAFFIC ON ROUTE 319 AND CUT THROUGH TO ROUTE 190
2. REMOVE EXISTING STRUCTURE UNDER ROUTE 190
3. INSTALL SOUTHERN COFFERDAM (SEE STRUCTURE PLANS)
4. CONSTRUCT BOX CULVERT (SEE STRUCTURE PLANS)
5. CONSTRUCT DRAINAGE
6. CONSTRUCT ROADWAY AND COMMERCAIL DRIVEWAY. THE ROADWAY WILL BE 2" SHORT OF FINAL GRADE, AND THE DRIVEWAY WILL BE CONSTRUCTED TO FINAL GRADE.
7. RECONSTRUCT PART OF COMMERCIAL PARKING LOT
8. CONSTRUCT CURBING
9. CONSTRUCT METAL BEAM RAIL (R-B MASH)
10. CONSTRUCT SIDEWALK AND SIDEWALK RAMPS

NOTES

1. WHEN CONSTRUCTING DRIVEWAY FOR WTW REALTY LLC, CONSTRUCT IN TWO SEPARATE PARTS. CONSTRUCT WESTERN PART OF THE PARKING LOT FIRST LEAVING ACCESS TO THE EASTERN SIDE OF THE LOT. WHILE CONSTRUCTING THE EASTERN SIDE OF THE LOT, USE THE EXISTING ROADWAY TO ALLOW ACCESS INTO THE WESTERN PART OF THE PROPERTY.

WORK AREA



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MODERN ROUNDABOUT
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PROJECT NO. 0134-0147
DRAWING TITLE: SEQUENCE PLAN

DRAWING NO. SEQ-05
SHEET NO. 03.20

SEQUENCE 6

SUGGESTED CONSTRUCTION SEQUENCE

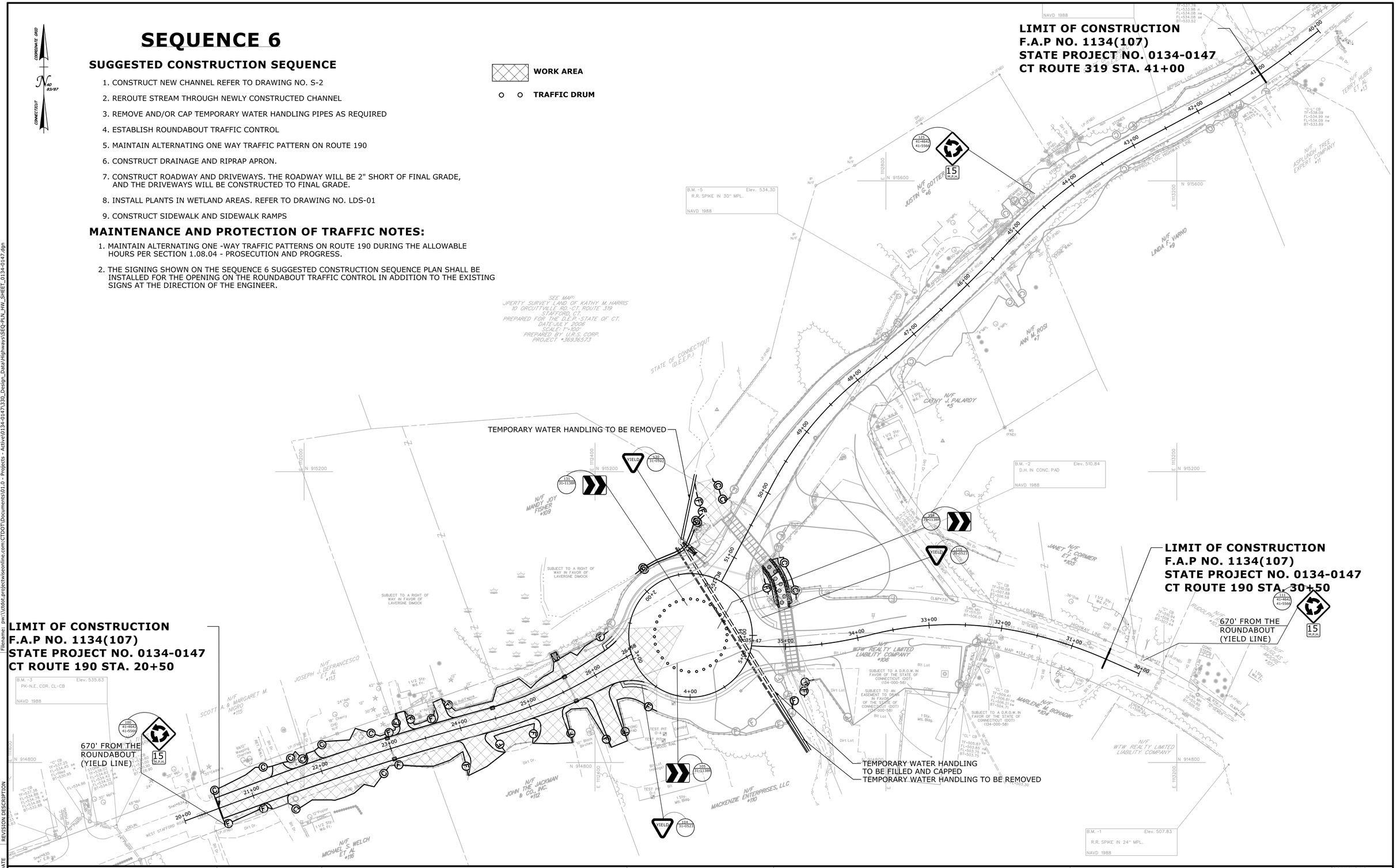
1. CONSTRUCT NEW CHANNEL REFER TO DRAWING NO. S-2
2. REROUTE STREAM THROUGH NEWLY CONSTRUCTED CHANNEL
3. REMOVE AND/OR CAP TEMPORARY WATER HANDLING PIPES AS REQUIRED
4. ESTABLISH ROUNDABOUT TRAFFIC CONTROL
5. MAINTAIN ALTERNATING ONE WAY TRAFFIC PATTERN ON ROUTE 190
6. CONSTRUCT DRAINAGE AND RIPRAP APRON.
7. CONSTRUCT ROADWAY AND DRIVEWAYS. THE ROADWAY WILL BE 2" SHORT OF FINAL GRADE, AND THE DRIVEWAYS WILL BE CONSTRUCTED TO FINAL GRADE.
8. INSTALL PLANTS IN WETLAND AREAS. REFER TO DRAWING NO. LDS-01
9. CONSTRUCT SIDEWALK AND SIDEWALK RAMPS

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. MAINTAIN ALTERNATING ONE -WAY TRAFFIC PATTERNS ON ROUTE 190 DURING THE ALLOWABLE HOURS PER SECTION 1.08.04 - PROSECUTION AND PROGRESS.
2. THE SIGNING SHOWN ON THE SEQUENCE 6 SUGGESTED CONSTRUCTION SEQUENCE PLAN SHALL BE INSTALLED FOR THE OPENING ON THE ROUNDABOUT TRAFFIC CONTROL IN ADDITION TO THE EXISTING SIGNS AT THE DIRECTION OF THE ENGINEER.

WORK AREA

TRAFFIC DRUM



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MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE: SEQUENCE PLAN

DRAWING NO.
SEQ-06

SHEET NO.
03.21

SEQUENCE 7

SUGGESTED CONSTRUCTION SEQUENCE

1. CONSTRUCT DRAINAGE
2. CONSTRUCT ROAD AND DRIVEWAYS. THE ROADWAS WILL BE 2" SHORT OF FINAL GRADE, AND THE DRIVEWAYS WILL BE CONSTRUCTED TO FINAL GRADE.
3. CONSTRUCT CONCRETE TRUCK APRON AND GRANITE CURBING
4. INSTALL TEMPORARY BITUMINOUS WEDGE FOR TRUCK TRAFFIC
5. INSTALL LANDSCAPING ON CENTER ISLAND
6. EXCAVATE CURRENT CUT THROUGH ROADWAY, AND PLACE WITH TURF ESTABLISHMENT

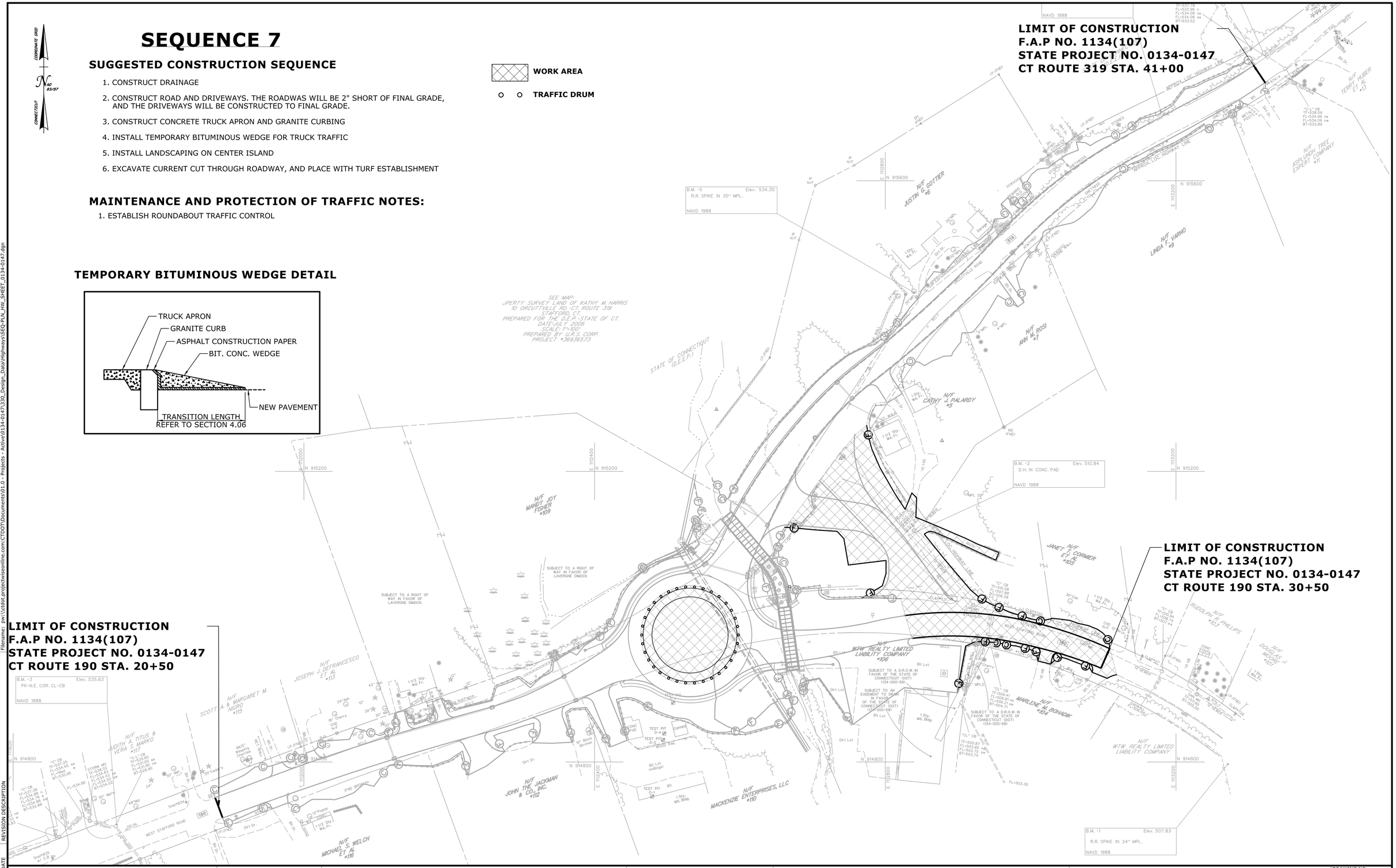
WORK AREA

TRAFFIC DRUM

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. ESTABLISH ROUNDABOUT TRAFFIC CONTROL

TEMPORARY BITUMINOUS WEDGE DETAIL



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MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: SEQUENCE PLAN

DRAWING NO. SEQ-07
SHEET NO. 03.22

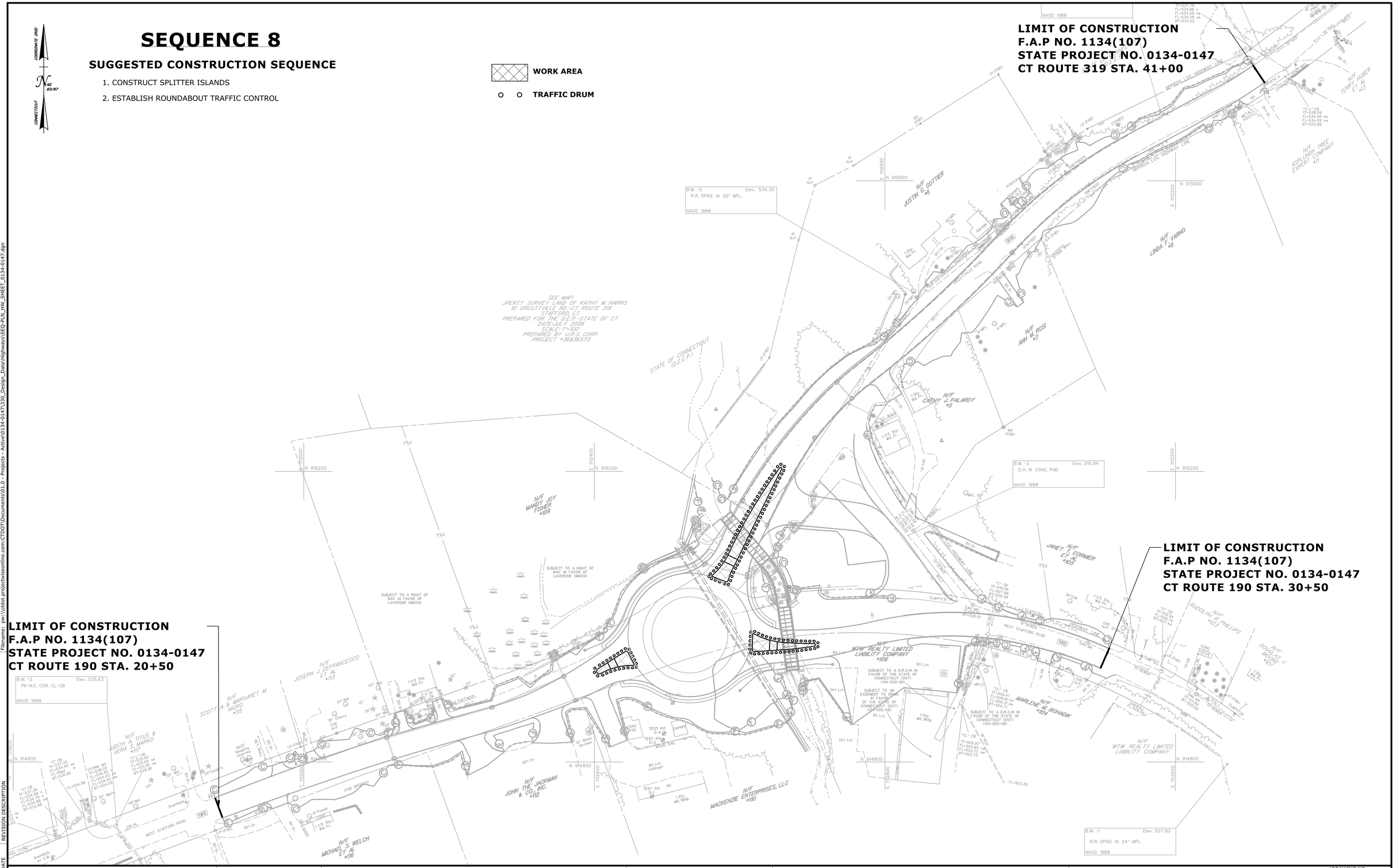
SEQUENCE 8

SUGGESTED CONSTRUCTION SEQUENCE

1. CONSTRUCT SPLITTER ISLANDS
2. ESTABLISH ROUNDABOUT TRAFFIC CONTROL

WORK AREA

TRAFFIC DRUM



DESIGNER/DRAFTER: JLG
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REV.	DATE	REVISION DESCRIPTION
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0 60' 120'
HORIZONTAL SCALE
1"=60'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE: SEQUENCE PLAN

DRAWING NO. SEQ-08

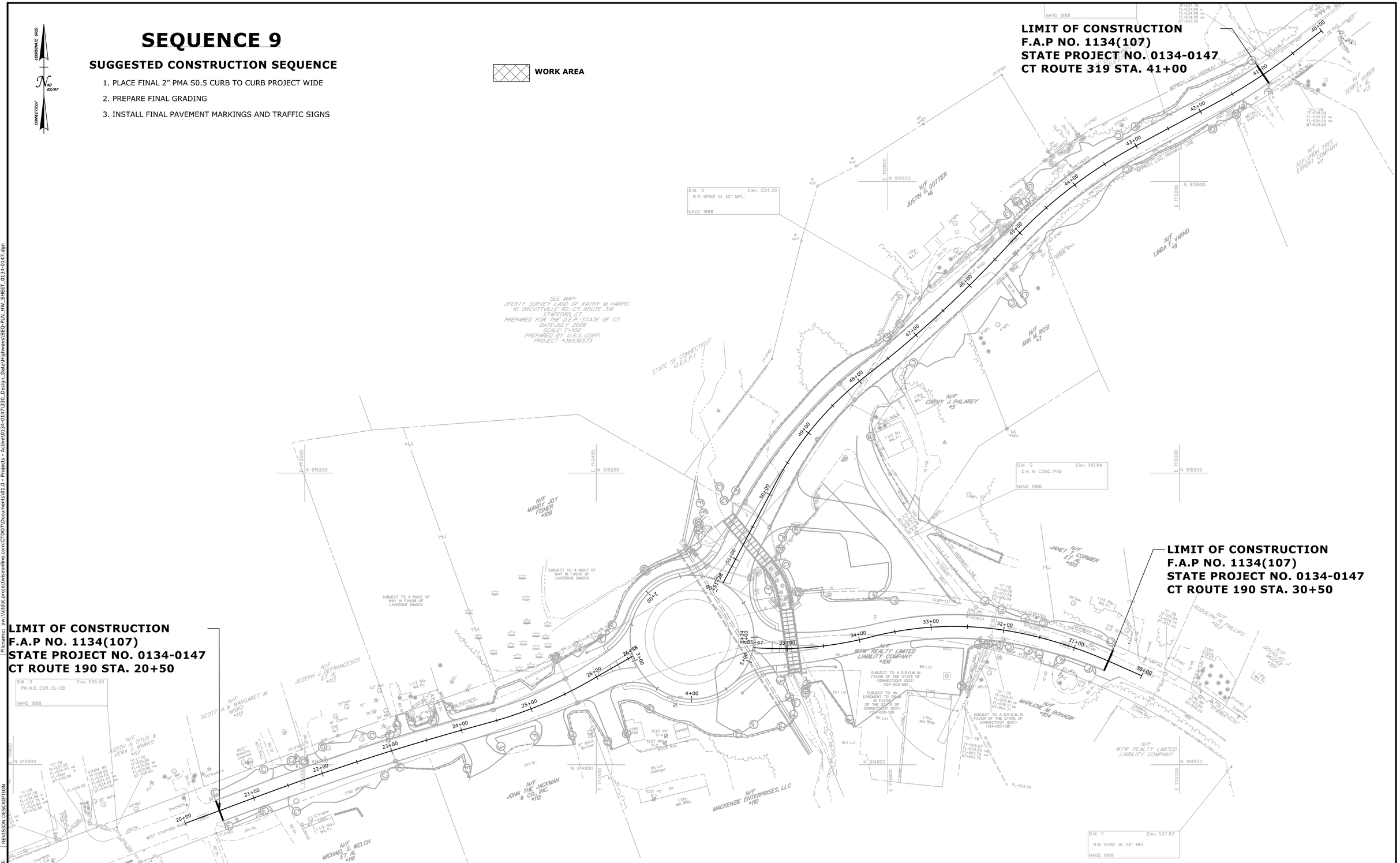
SHEET NO. 03.23

SEQUENCE 9

SUGGESTED CONSTRUCTION SEQUENCE

1. PLACE FINAL 2" PMA S0.5 CURB TO CURB PROJECT WIDE
2. PREPARE FINAL GRADING
3. INSTALL FINAL PAVEMENT MARKINGS AND TRAFFIC SIGNS

WORK AREA



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REV.	DATE	REVISION DESCRIPTION

0 60' 120'
HORIZONTAL SCALE
1"=60'

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OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
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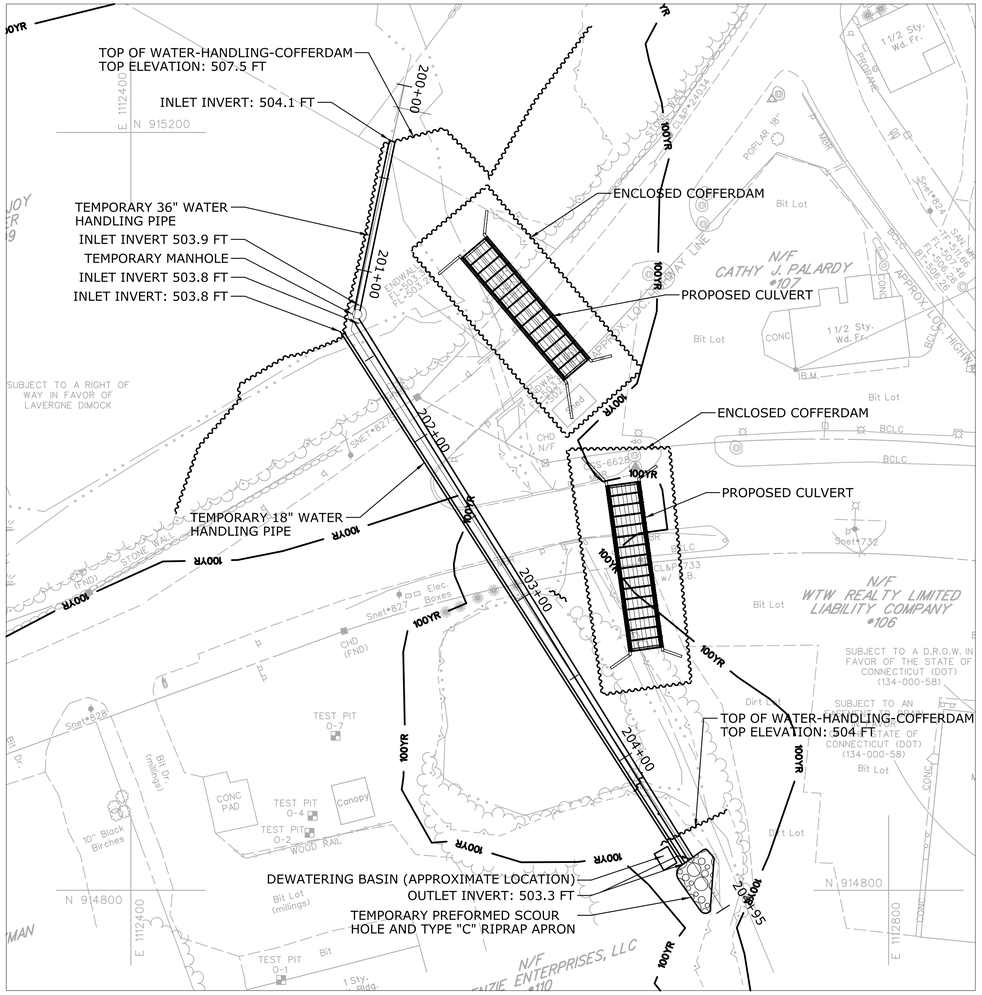
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

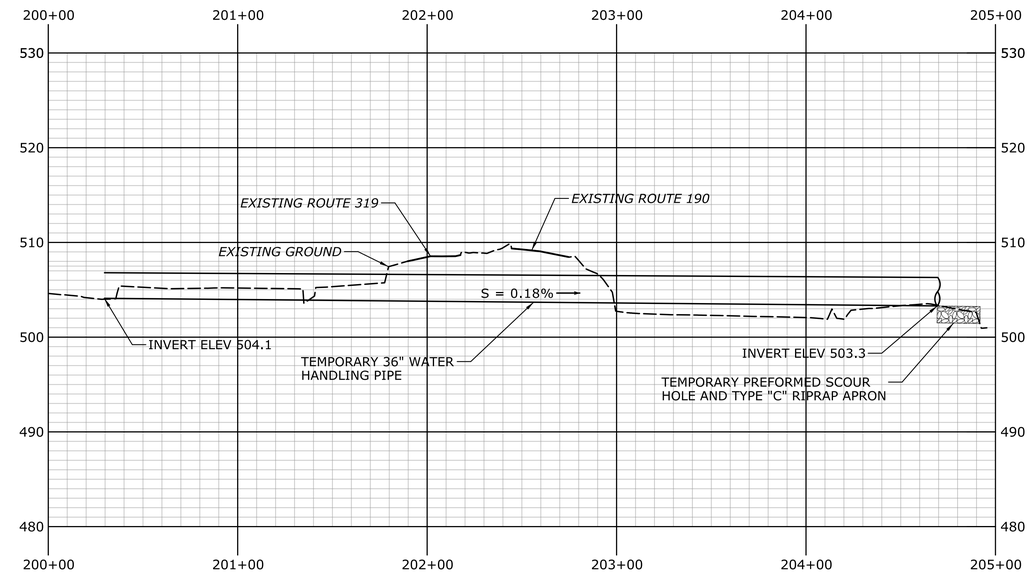
TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: SEQUENCE PLAN

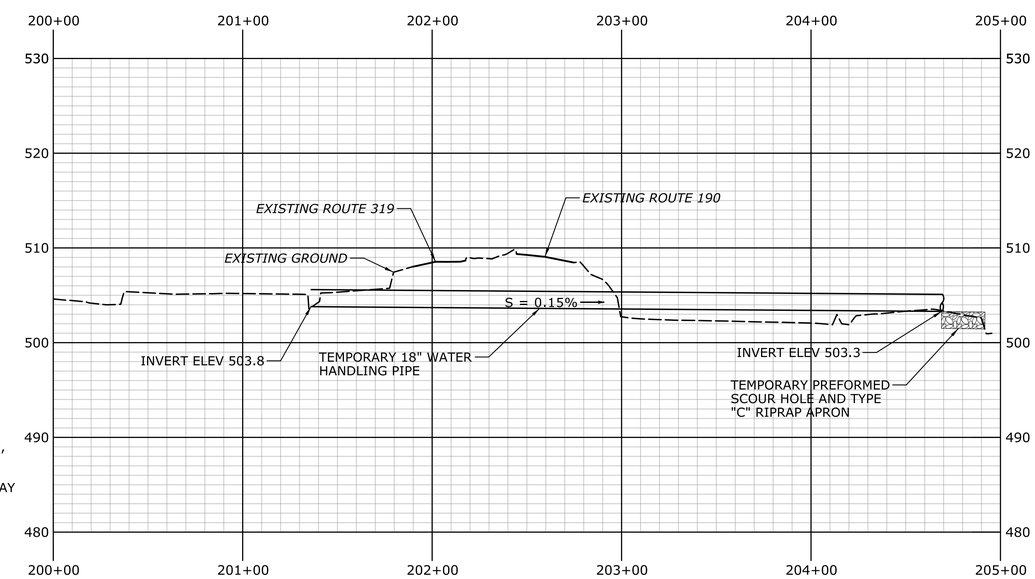
DRAWING NO. SEQ-09
SHEET NO. 03.24



PLAN VIEW



PROFILE - 36" TEMPORARY WATER HANDLING PIPE



PROFILE - 18" TEMPORARY WATER HANDLING PIPE

TEMPORARY HYDRAULIC DATA	
AVERAGE DAILY FLOW	2.6 CFS
AVERAGE SPRING FLOW	5.0 CFS
2-YEAR FREQUENCY DISCHARGE	40 CFS
TEMPORARY DESIGN DISCHARGE	40 CFS
TEMPORARY DESIGN FREQUENCY	2-YEAR
TEMPORARY HEADWATER ELEVATION	507.1' UPSTREAM 503.7' DOWNSTREAM

GENERAL NOTES:

1. HYDRAULIC DATA FOR GRAVITY FLOW BYPASS BASED ON A 36" DIA. SMOOTH INTERIOR INTERIOR PIPE WITH INVERT ELEVATIONS OF 504.1 FT (INLET) AND 503.3 FT (OUTLET).
2. USE OF SANDBAGS TO HOLD BYPASS PIPE IN PLACE IS PERMITTED IF NECESSARY.
3. IF THE 18" TEMPORARY WATER HANDLING PIPE MATERIAL IS LIGHTWEIGHT (NON-CONCRETE), BURY THE PIPE TO THE INLET OR OTHERWISE ANCHOR/SECURE THE INLET.
4. THE 36" TEMPORARY WATER HANDLING PIPE SHALL BE CONCRETE UPSTREAM OF THE ROADWAY TO MITIGATE THE EFFECTS OF BUOYANCY.

SUGGESTED CONSTRUCTION SEQUENCE:

1. CONSTRUCT TEMPORARY WATER HANDLING PIPES UNDER ROUTE 319 AND ROUTE 190
2. CONSTRUCT TEMPORARY PREFORMED SCOUR HOLE
3. CONSTRUCT TEMPORARY WATER HANDLING COFFERDAM
4. REROUTE WATER INTO 36" TEMPORARY PIPE
5. PUMP WATER AS NEEDED FROM SMALL STREAM TO 18" WATER HANDLING PIPE
6. CONTINUE TO SEQUENCE 3 (SEQ-03) IN THE STAGE CONSTRUCTION PLANS

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SIGNATURE/ BLOCK:
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2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:
Matthew Vail

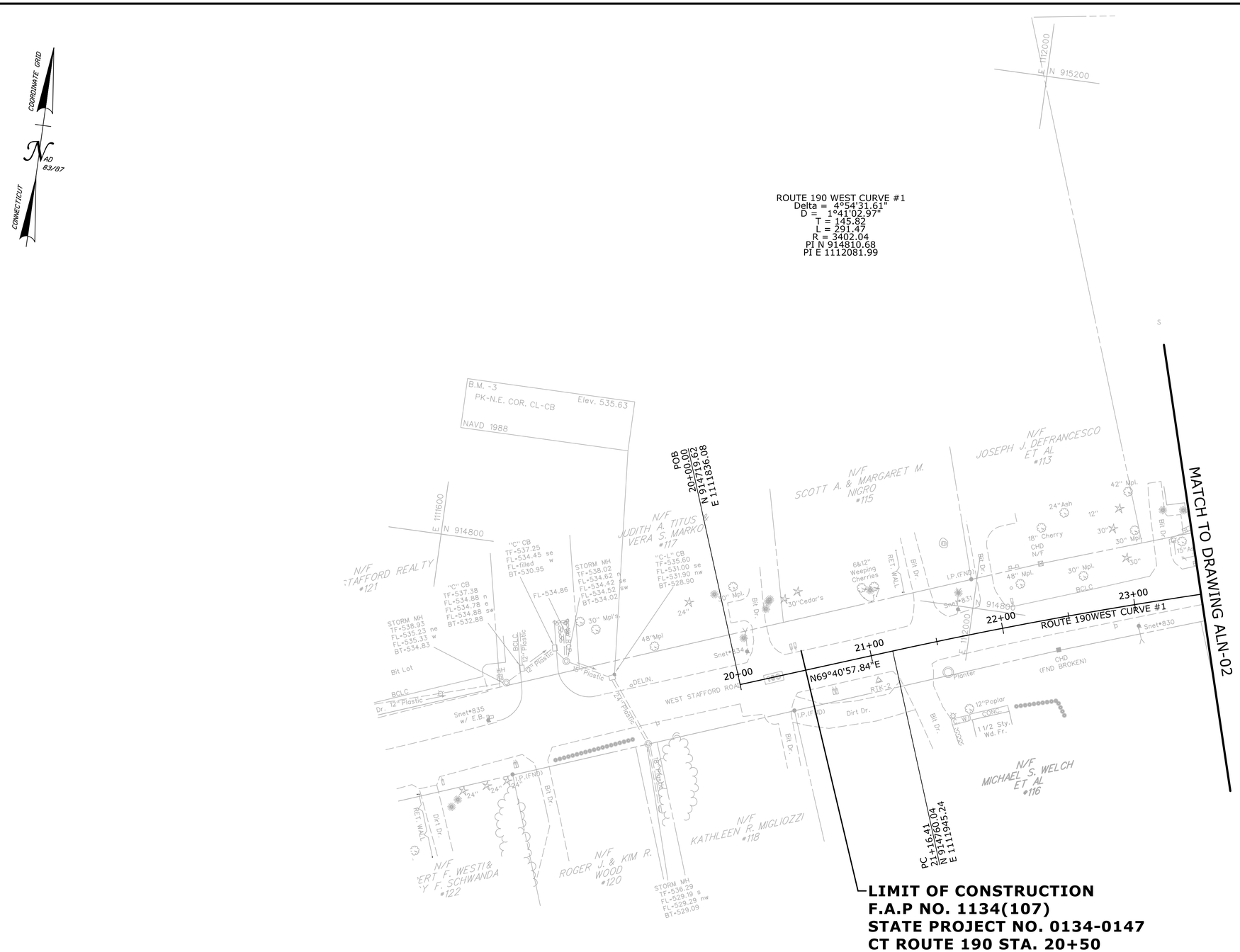
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: TEMPORARY WATER HANDLING

DRAWING NO. TWH-01
SHEET NO. 03.25



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REV.	DATE	REVISION DESCRIPTION

0 40' 80'
HORIZONTAL SCALE
1"=40'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

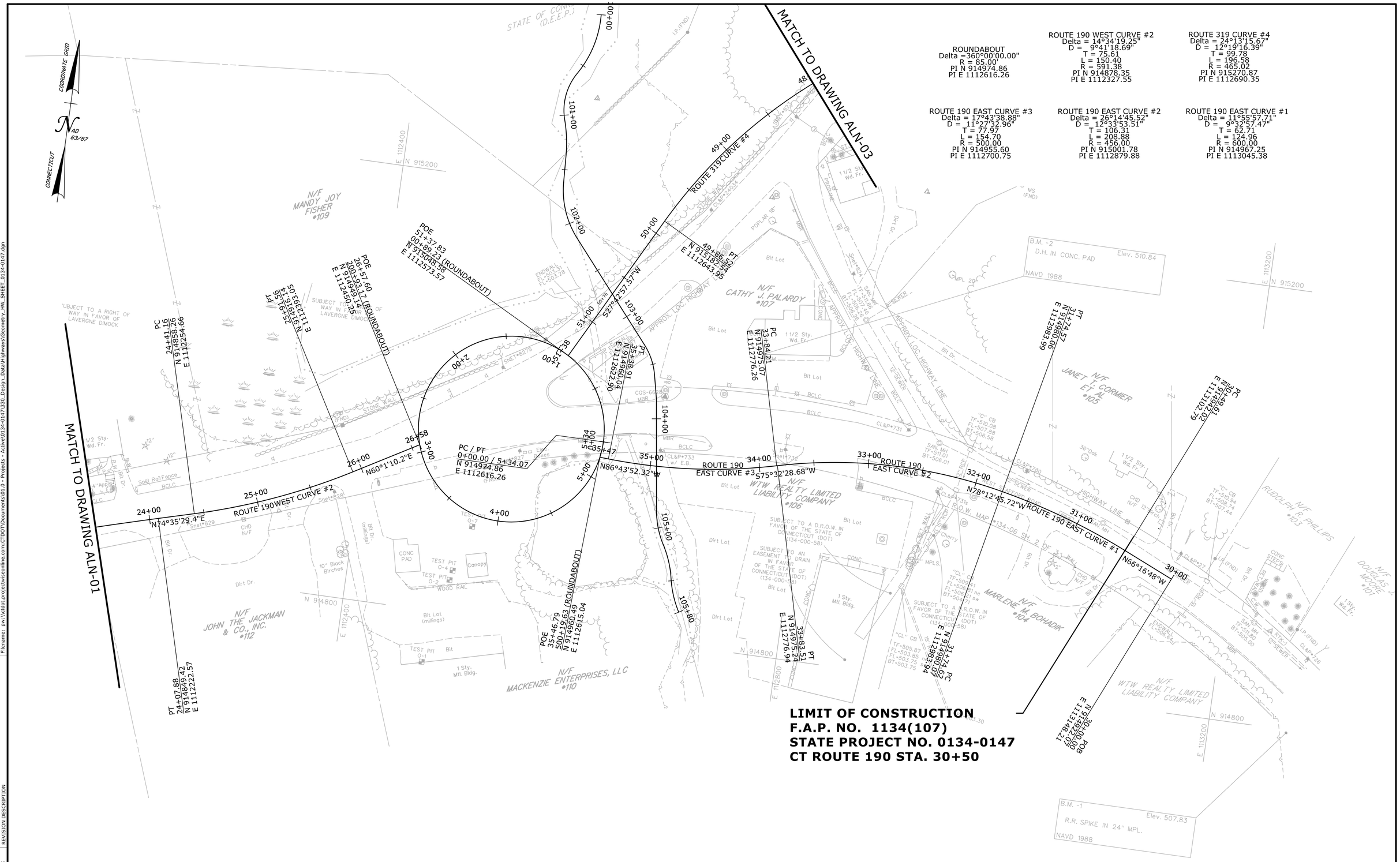
TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE:
ALIGNMENT - GEOMETRY PLAN

DRAWING NO.
ALN-01

SHEET NO.
03.26



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NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaul

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE: ALIGNMENT - GEOMETRY PLAN

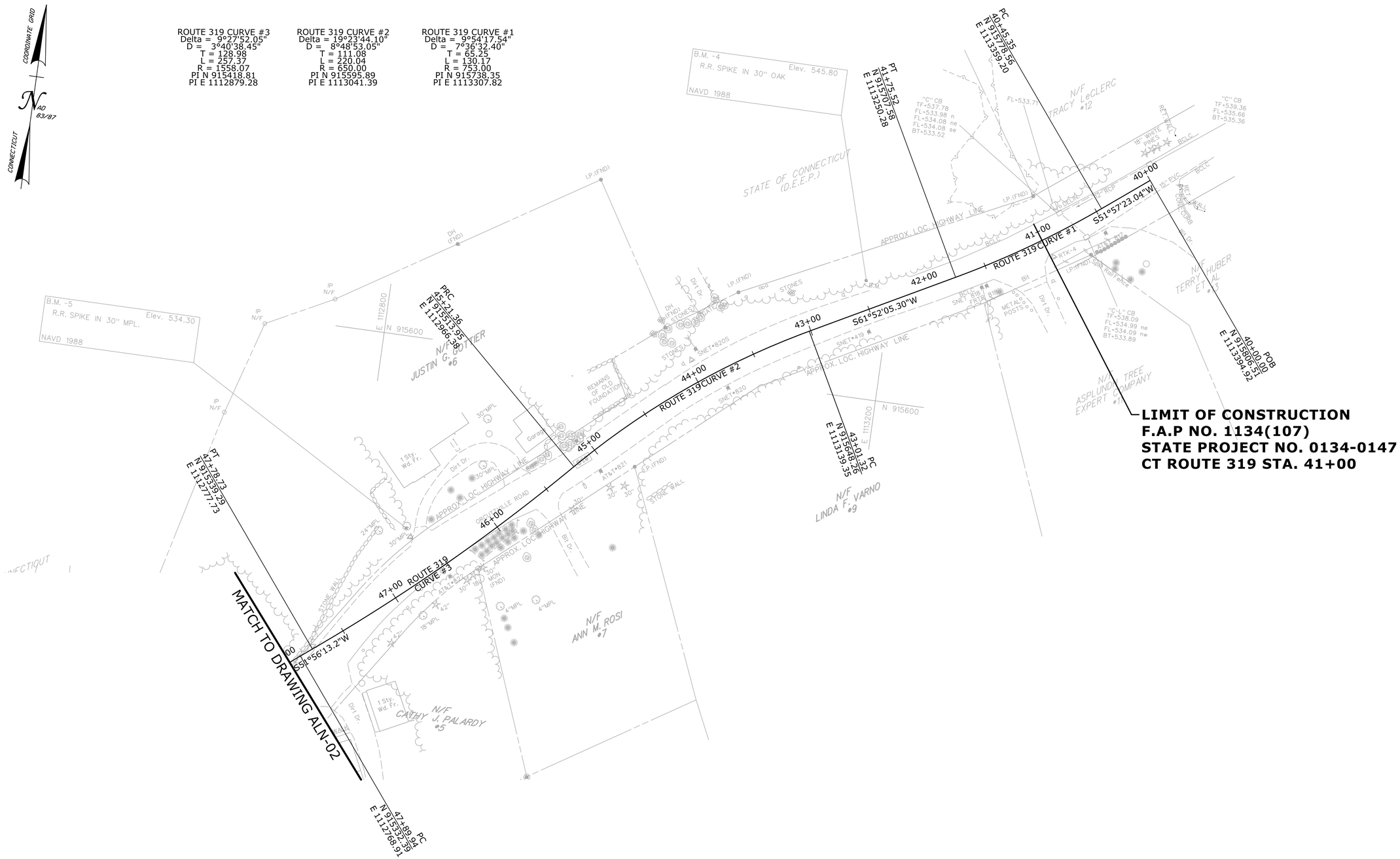
DRAWING NO. ALN-02

SHEET NO. 03.27

ROUTE 319 CURVE #3
Delta = 9°27'52.05"
D = 3°40'38.45"
T = 128.98
L = 257.37
R = 1558.07
PI N 915418.81
PI E 1112879.28

ROUTE 319 CURVE #2
Delta = 19°23'44.10"
D = 8°48'53.05"
T = 111.08
L = 220.04
R = 650.00
PI N 915595.89
PI E 1113041.39

ROUTE 319 CURVE #1
Delta = 9°54'17.54"
D = 7°36'32.40"
T = 65.25
L = 130.17
R = 753.00
PI N 915738.35
PI E 1113307.82



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SIGNATURE/ BLOCK:

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2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

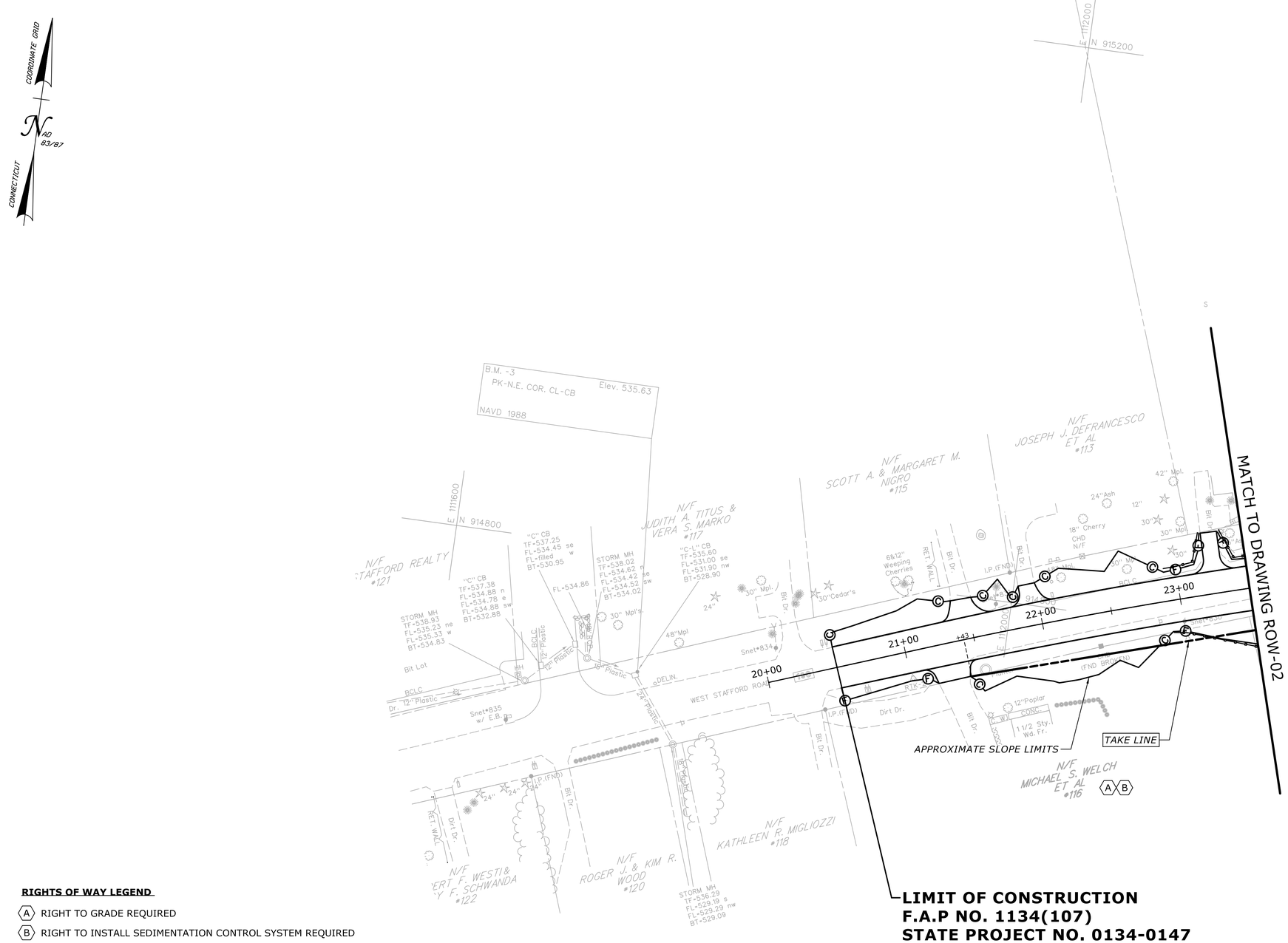
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: ALIGNMENT - GEOMETRY PLAN

DRAWING NO. ALN-03
SHEET NO. 03.28



LIMIT OF CONSTRUCTION
F.A.P NO. 1134(107)
STATE PROJECT NO. 0134-0147
CT ROUTE 190 STA. 20+50

RIGHTS OF WAY LEGEND

- (A) RIGHT TO GRADE REQUIRED
- (B) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED
- (C) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED
- (D) EASEMENT TO SLOPE FOR THE SAFETY AND SUPPORT OF THE HIGHWAY REQUIRED
- (E) CONSTRUCTION EASEMENT REQUIRED
- (F) DROW REQUIRED
- (G) DEFINED EASEMENT FOR HIGHWAY PURPOSES REQUIRED
- (H) TOTAL TAKE REQUIRED

DESIGNER/DRAFTER:JLG
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0 40' 80'
HORIZONTAL SCALE
1"=40'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

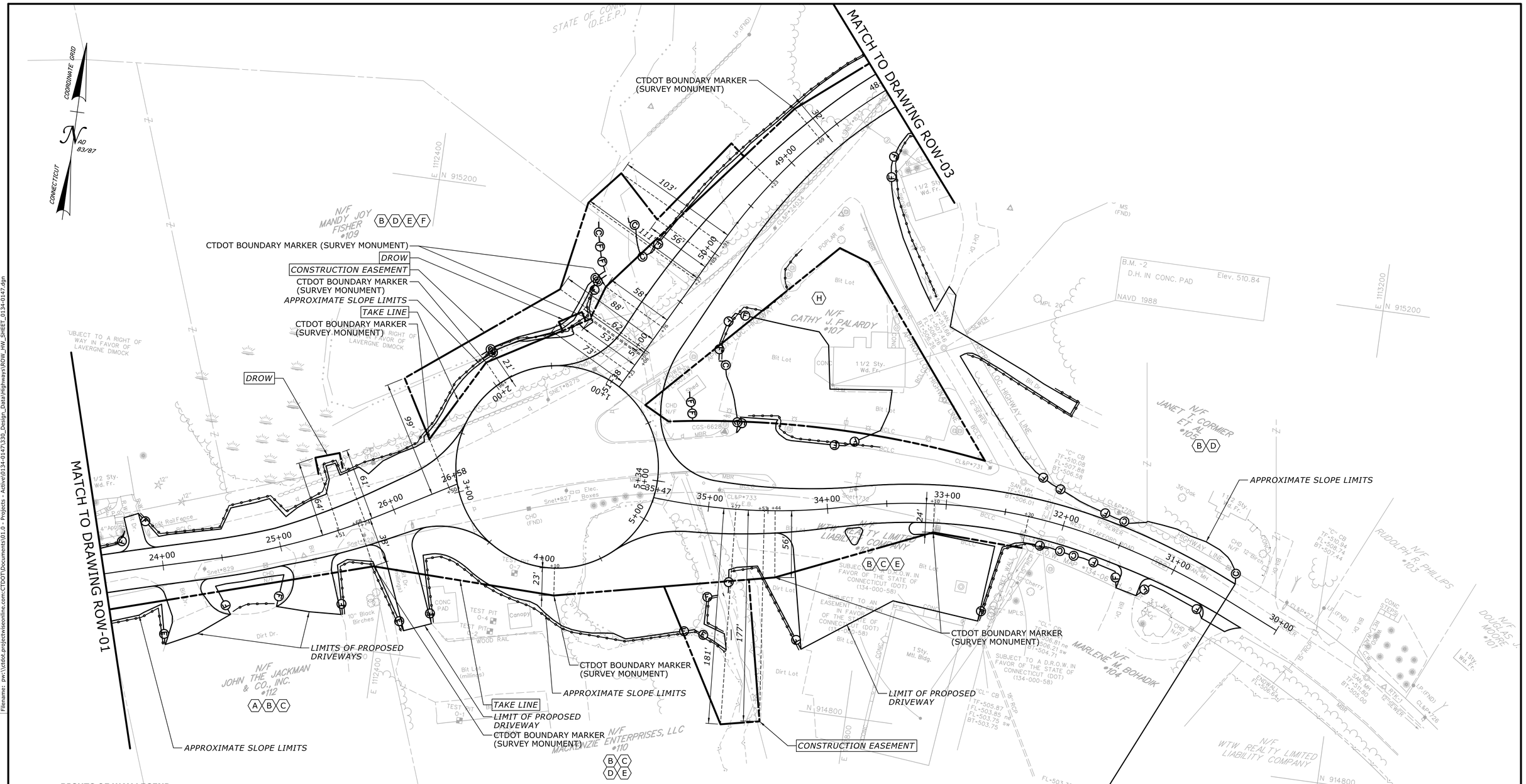
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: RIGHTS OF WAY PLAN

DRAWING NO. ROW-01
SHEET NO. 03.29



RIGHTS OF WAY LEGEND

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- (H) TOTAL TAKE REQUIRED

LIMIT OF CONSTRUCTION
F.A.P NO. 1134(107)
STATE PROJECT NO. 0134-0147
CT ROUTE 190 STA. 30+50

DESIGNER/DRAFTER:JLG
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0 40' 80'
HORIZONTAL SCALE 1"=40'

SIGNATURE/BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

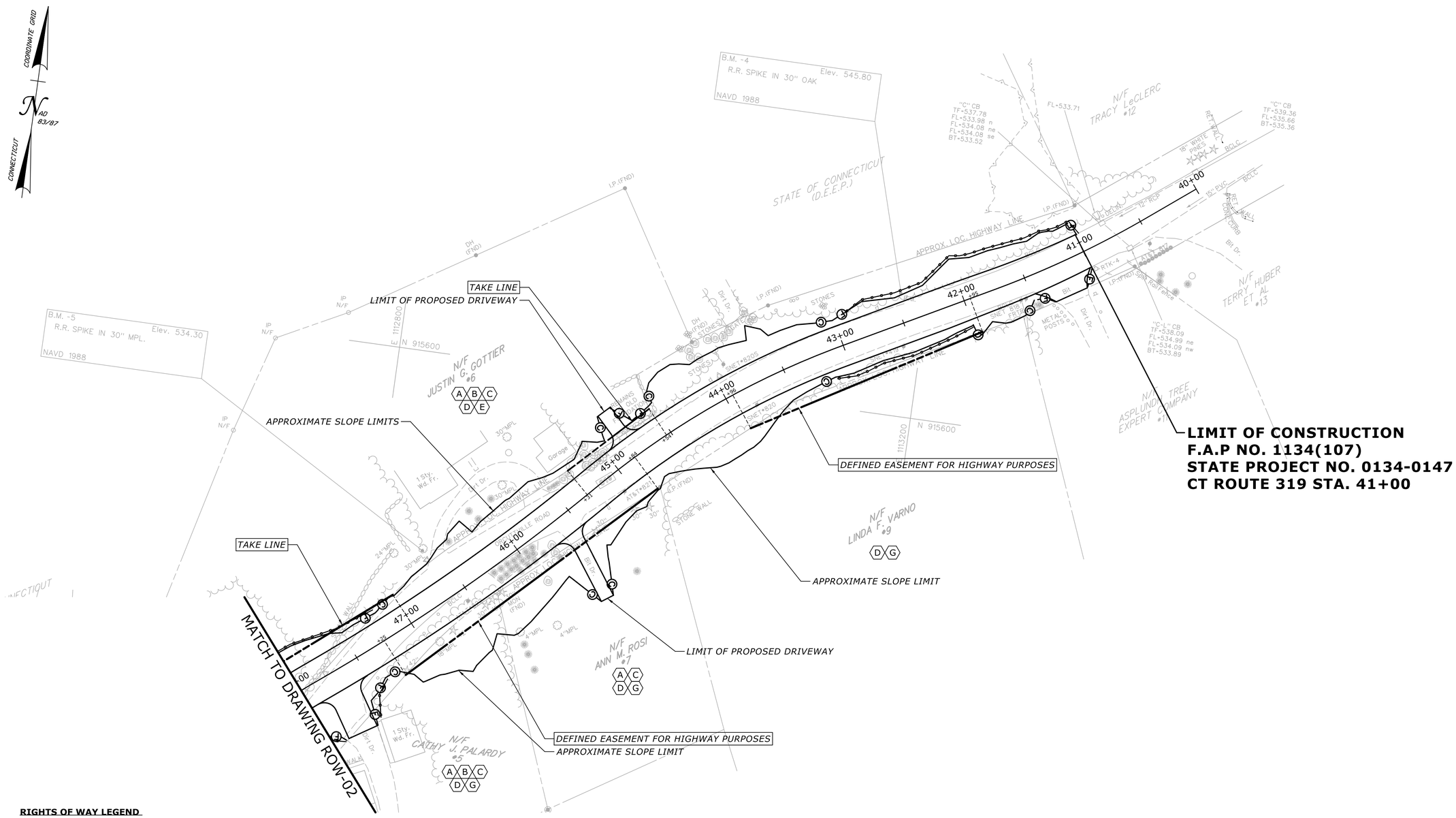
APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: RIGHTS OF WAY PLAN
DRAWING NO. ROW-02
SHEET NO. 03.30



RIGHTS OF WAY LEGEND

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- (B) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED
- (C) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED
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OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

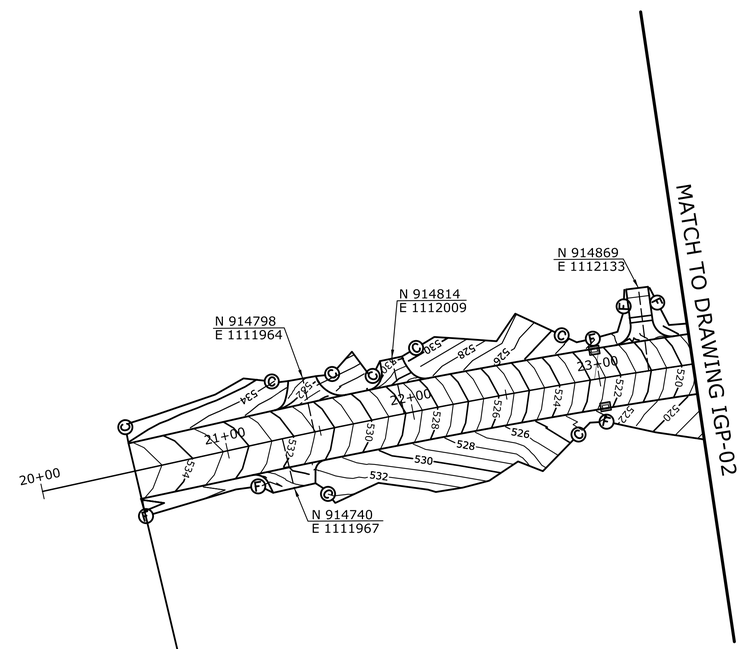
TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: RIGHTS OF WAY PLAN

DRAWING NO. ROW-03
SHEET NO. 03.31

GENERAL NOTES

1. THE HASHED LINES THROUGH THE CENTERLINE OF THE DRIVEWAYS REPRESENTS THE LOCATION OF THE SKEWED CROSS SECTIONS THROUGH THE DRIVEWAYS.



LIMIT OF CONSTRUCTION
F.A.P NO. 1134(107)
STATE PROJECT NO. 0134-0147
CT ROUTE 190 STA. 20+50

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STATE OF CONNECTICUT
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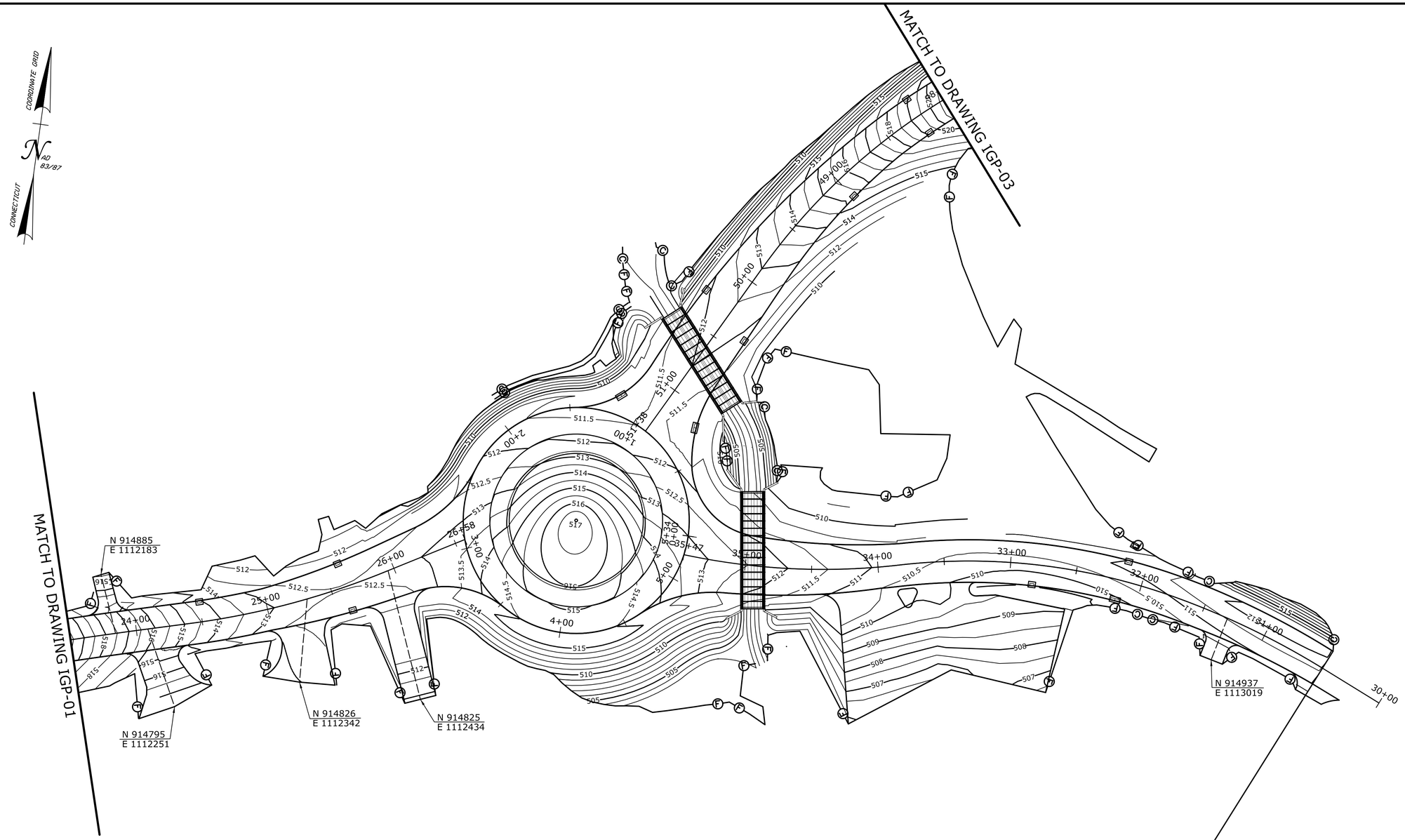
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: GRADING PLAN

DRAWING NO.
IGP-01
SHEET NO.
03.32



LIMIT OF CONSTRUCTION
STATE PROJECT NO. 0134-0147
F.A.P NO. 1134(107)
CT ROUTE 190 STA. 30+50

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0 40' 80'
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APPROVED BY:

Matthew Vaal

STATE OF CONNECTICUT
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OF
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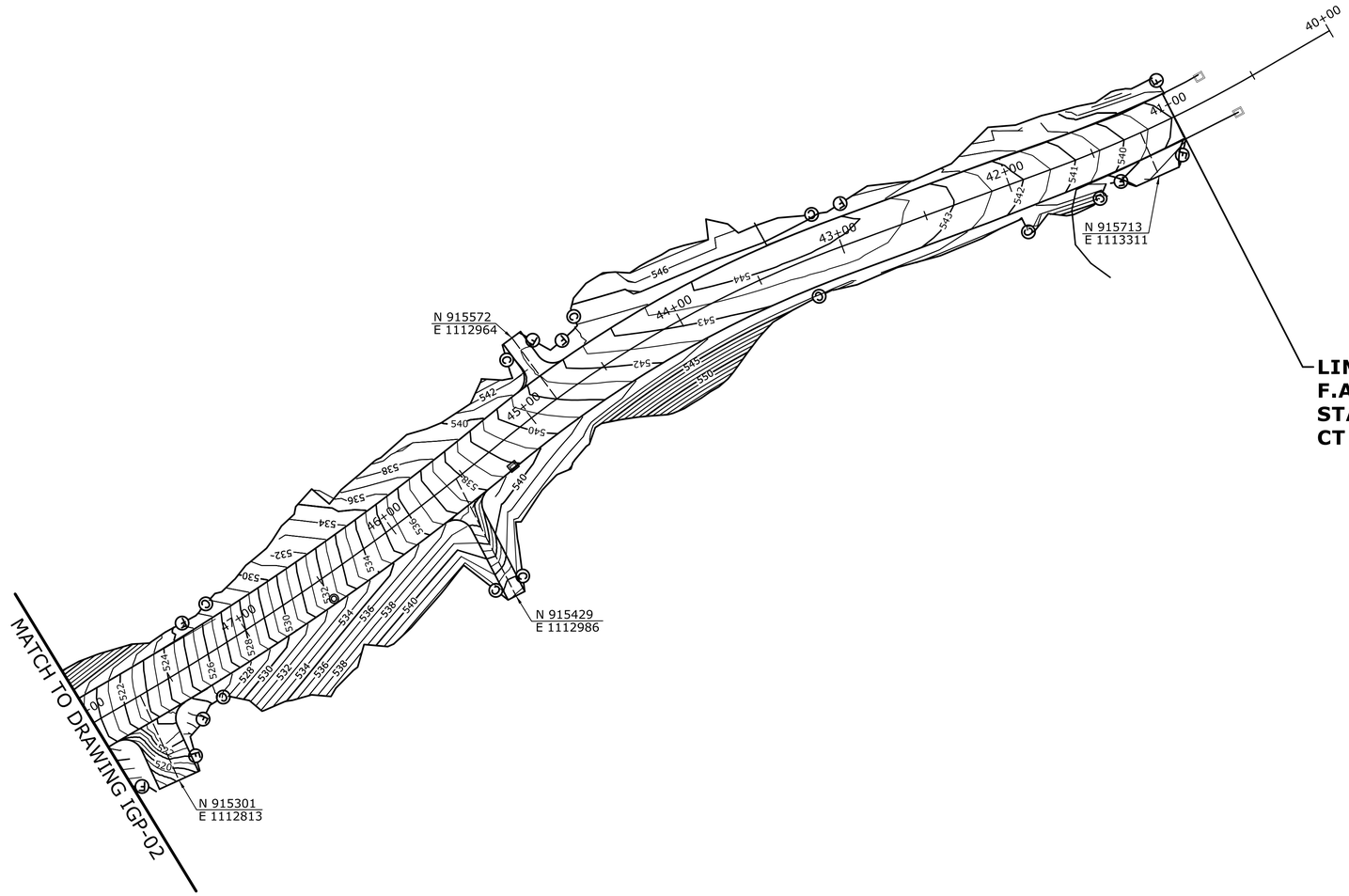
MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: GRADING PLAN

DRAWING NO.
IGP-02

SHEET NO.
03.33



LIMIT OF CONSTRUCTION
F.A.P NO. 1134(107)
STATE PROJECT NO. 0134-0147
CT ROUTE 319 STA. 41+00

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0 40' 80'
HORIZONTAL SCALE
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APPROVED BY:

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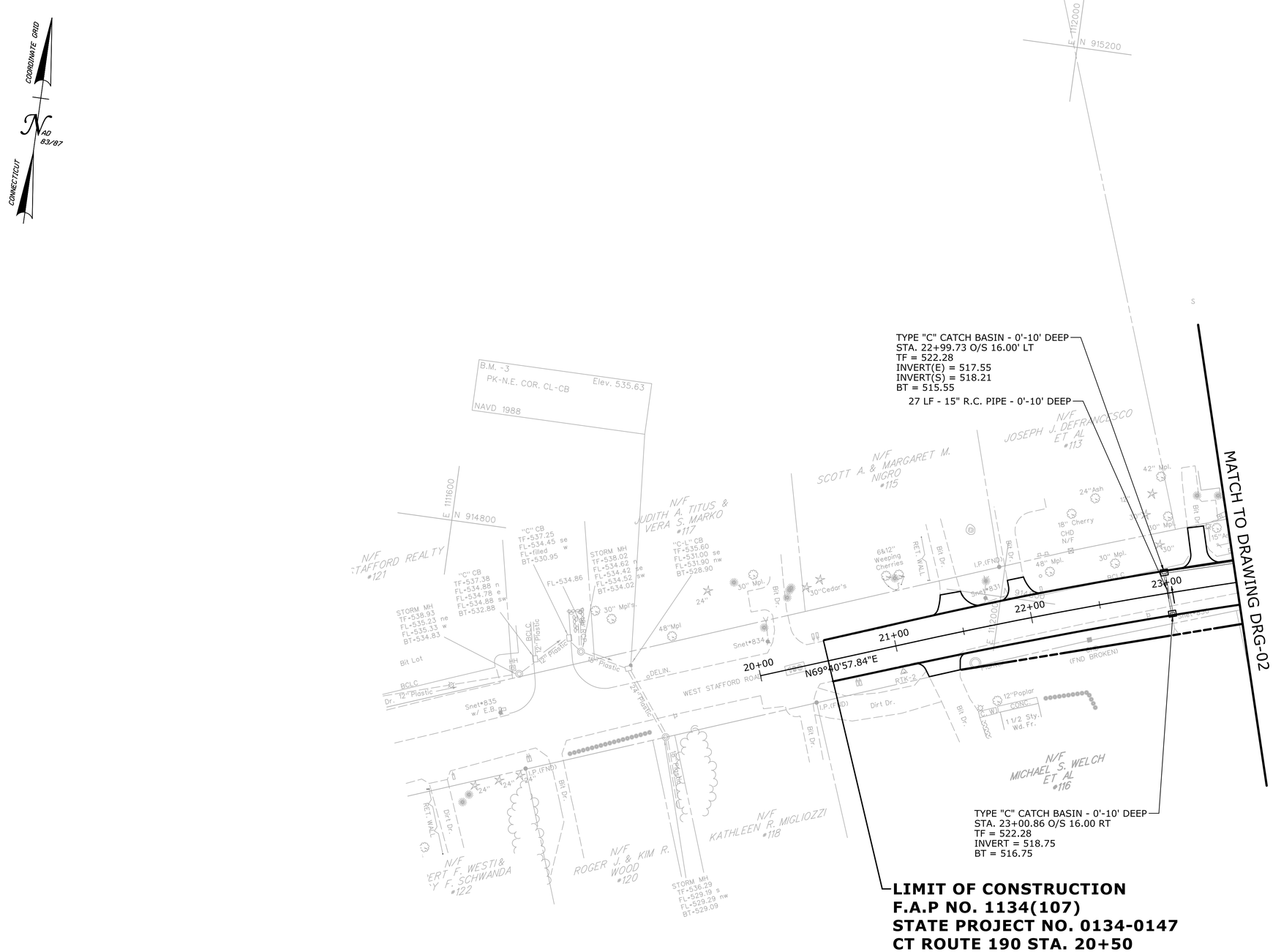
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: GRADING PLAN

DRAWING NO. IGP-03
SHEET NO. 03.34



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APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
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OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

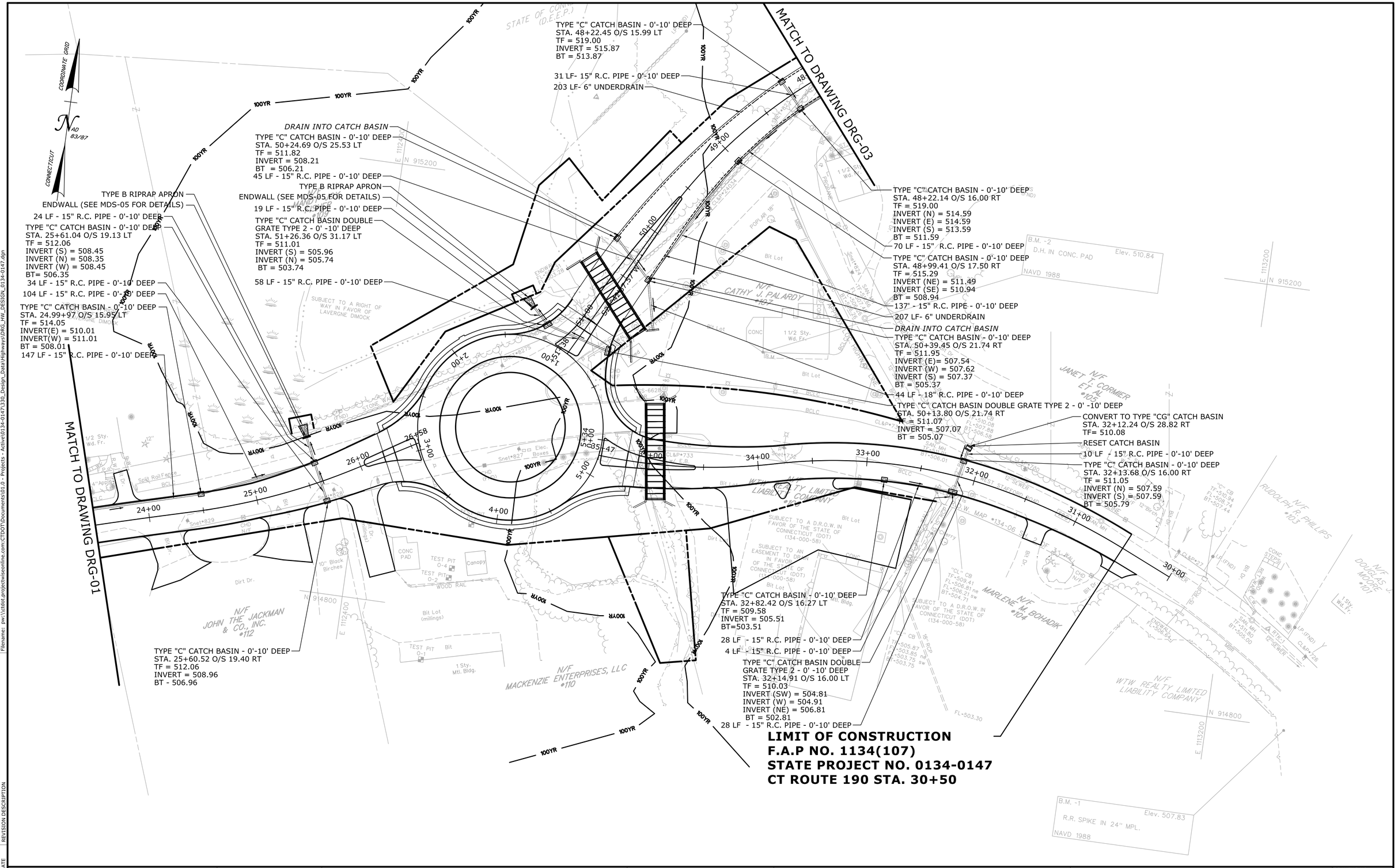
TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE: DRAINAGE PLAN

DRAWING NO.
DRG-01

SHEET NO.
03.35



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0 40' 80'
HORIZONTAL SCALE
1"=40'

SIGNATURE/BLOCK:

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APPROVED BY:

Matthew Vail

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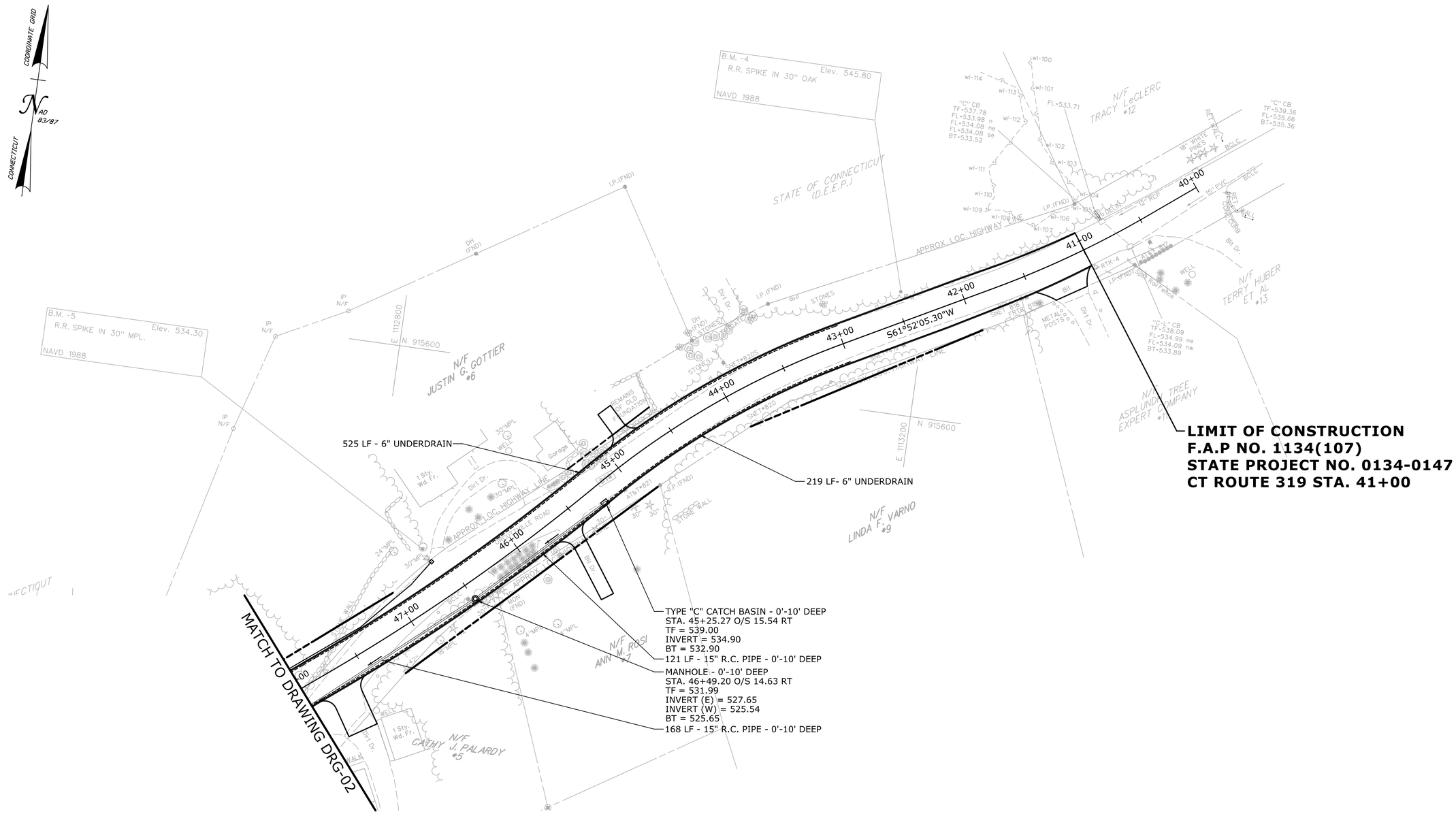
MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: DRAINAGE PLAN

DRAWING NO. DRG-02
SHEET NO. 03.36



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0 40' 80'
HORIZONTAL SCALE
1"=40'

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Varf

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: DRAINAGE PLAN

DRAWING NO. DRG-03
SHEET NO. 03.37

TREES

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	COMMENTS
A.r.	Acer Rubrum	Red Maple	2" - 2 1/2" Cal. B.B.	4	
Pl.a.	Platanus acerfolia	London Plane Tree	2" - 2 1/2" Cal. B.B.	3	Min. 5' Branching
U.a.	Ulmus americana	American Elm	2 1/2" - 3" Cal. B.B.	8	

SHRUBS AND HERBACEOUS PLANTS

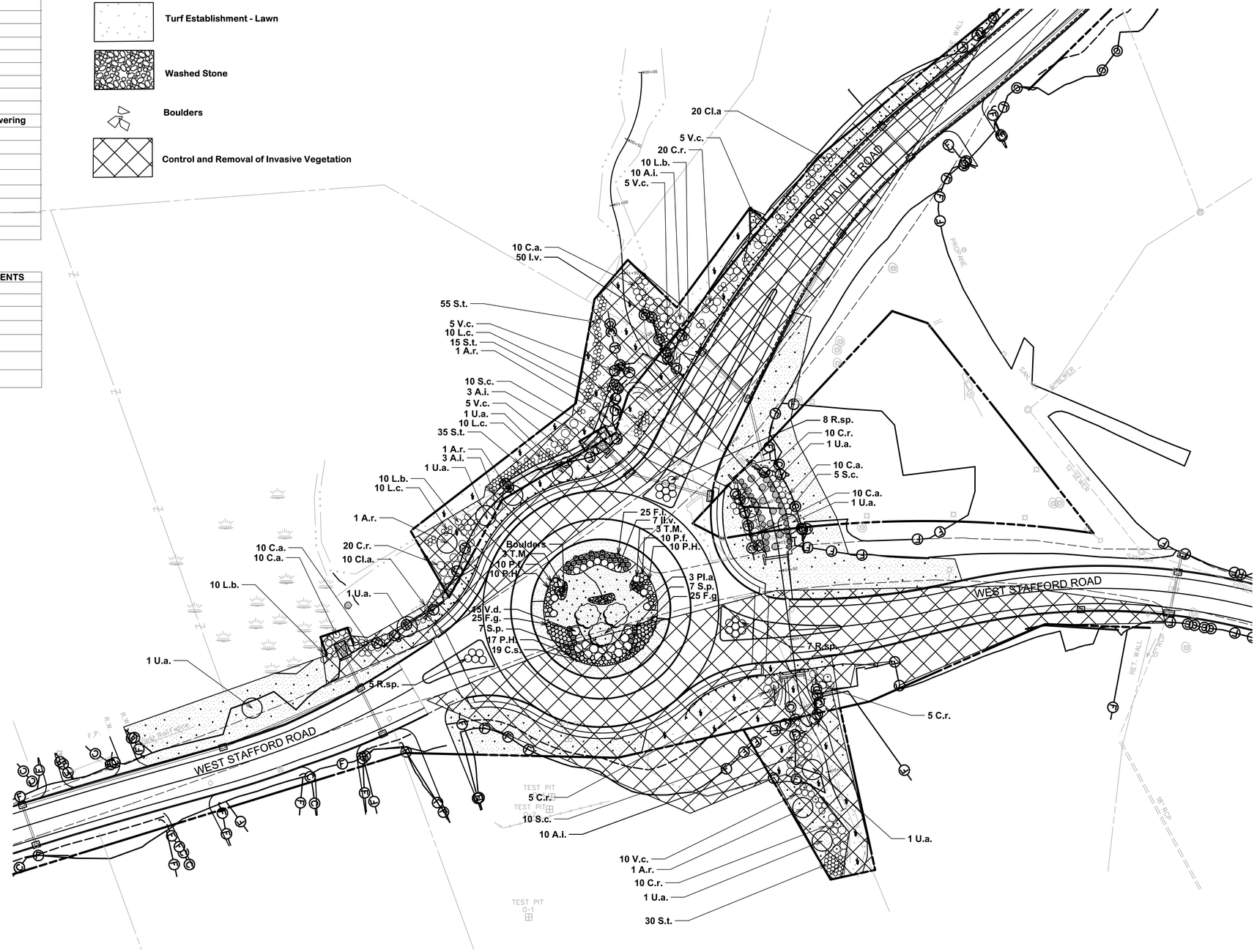
KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	COMMENTS
A.i.	Alnus incana	Speckled Alder	2' - 3' Ht. B.B.	26	
C.a.	Cornus alba	Siberian Dogwood	2' - 3' Ht. B.B.	50	
Cl.a.	Clethra alnifolia	Summersweet Clethra	2' - 3' Ht. B.B.	30	
C.r.	Cornus racemosa	Grey Dogwood	2' - 3' Ht. B.B.	65	
C.s.	Cornus sericea	Redosier Dogwood	24" - 36" Ht. Container	19	
F.g.	Fothergilla gardenii	Fothergilla	2' - 3' Ht. B.B.	50	
F.i.	Forsythia intermedia	Border Forsythia	2' - 3' Ht. B.R.	25	
I.v.	Iris versicolor	Blue Flag Iris	2" Peat Pot	50	
Il.v.	Ilex verticulata	Common Winterberry	2' - 3' Ht. B.B.	7	
L.b.	Lindera benzoin	Spicebush	18" - 24" Ht. B.B.	30	
L.c.	Lobelia cardinalis	Cardinal Flower	1 Gallon Container	30	
P.f.	Potenilla fruticosa spp.	Potentilla	18" - 24" Container	20	Pink Flowering
P.H.	Pennisetum 'Hameln'	Hameln Fountain Grass	1 Gallon Container	37	
R.sp.	Rosa mediland (White)	Mediland White Rose	18" - 24" Spr. B.B.	20	
S.c.	Sambucus canadensis	Common Elderberry	24" - 36" Ht. B.B.	25	
S.p.	Syringa patula 'Miss Kim'	Miss Kim Lilac	18" - 24" Ht. Container	14	
S.t.	Spiraea tomentosa	Steeple Bush	18" - 24" Ht. Container	120	
T.M.	Taxus x media 'Wardii'	Wardi's Yew	2' Ht. B.B.	6	
V.c.	Vaccinium corybosum	Highbush Blueberry	15" - 18" Ht. B.B.	20	
V.d.	Virburnum dentatum	Arrowwood Viburnum	3' - 4' Ht. B.B.	15	

SUPPLEMENTAL ITEMS

ITEM #	ITEM NAME	QTY.	COMMENTS
0950040A	Conservation Seeding For Slopes	3300 S.Y.	
0952051A	Control and Removal of Invasive Vegetation	9000 S.Y.	
0755009A	Geotextile	30 S.Y.	
0950009A	Boulders	6 EA.	
0302905A	Washed Stone	30 S.Y.	
0950043A	Wetland Grass Establishment	24300 S.F.	
0950019A	Turf Establishment - Lawn	275 S.Y.	

LEGEND

- Conservation Seeding for Slopes
- Wetland Grass Establishment
- Turf Establishment - Lawn
- Washed Stone
- Boulders
- Control and Removal of Invasive Vegetation



NOTES

PLANTING

1. PROVIDE LANDSCAPE DESIGN WITH A SOURCE OF SUPPLY INCLUDING THE SIZE, SPECIES AND QUANTITY OF EACH PLANT. PLANT MATERIAL MUST BE APPROVED AT THE NURSERY PRIOR TO DELIVERY. LANDSCAPE DESIGN MAY REJECT PLANT MATERIAL AT ANY TIME.
2. THE LOCATION OF PLANTINGS ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS OF DELIVERY SO THE LAYOUT CAN BE SCHEDULED WITH LANDSCAPE DESIGN.
3. REFER TO THE STANDARD SPECIFICATION AND SUPPLEMENTALS FOR INFORMATION PERTAINING TO TOPSOIL, PLANTING MIX, WATERING, WARRANTIES AND OTHER INFORMATION.
4. PLANTING BED LINES SHOWN ARE APPROXIMATE. FINAL CONFIGURATION TO BE DETERMINED IN THE FIELD AND BE EXCAVATED & MULCHED CONTINUOUSLY.
5. ALL SHRUBS SHALL BE NURSERY GRADE, CONFORMING TO SECTION 3 OF THE AMERICAN STANDARDS FOR NURSERY STOCK, MEETING THE MINIMUM REQUIREMENTS FOR CONTAINER SIZE, ROOT MASS AND NUMBER OF CANES FOR EACH 'TYPE'.
6. HERBACEOUS PLANTS MUST MEET THE MINIMUM REQUIREMENTS FOR CONTAINER SIZE AND ROOT MASS AS SPECIFIED ON THE PLANT LIST.

SEEDING

7. LIMITS OF BOTH CONSERVATION SEEDING FOR SLOPES, WETLAND GRASS ESTABLISHMENT AND TURF ESTABLISHMENT - LAWN ARE APPROXIMATE, AND WILL BE FINALIZED IN THE FIELD. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL COORDINATE SEEDING WITH THE OPTIMAL DATES INDICATED.
8. ALL AREAS DEVELOPED AND MAINTAINED AS LAWN BY ADJACENT PROPERTY OWNERS PRIOR TO CONSTRUCTION SHALL BE GRADED, PREPARED AND SEEDED TO RESTORE EXISTING CONDITIONS.
9. THE CONTRACTOR IS RESPONSIBLE FOR ANTICIPATING CORRECTIVE MEASURE REQUIRED FOR ALL SEEDING. AREAS COMPACTED BY CONSTRUCTION VEHICLES OR THE STOCKPILING OF MATERIAL MUST BE MADE FRIABLE PRIOR TO THE INSTALLATION OF TOPSOIL AND OR SEED.
10. THE CONTRACTOR IS RESPONDSIBLE FOT THE PROTECTION OF SEEDED AREAS THROUGHOUT THE CONTRACT AND WARRANTY PERIOD.
11. ESTIMATES FOR THE CONTRACT ITEMS INCLUDE ALL AREAS INDICATED ON THE PLANS AS WITHIN THE 'LIMIT OF WORK'. IN ADDITION, AREAS OUTSIDE THE LIMIT OF GRADING OR LIMIT OF WORK DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED AT NO ADDITIONAL EXPENSE.

DESIGNER/DRAFTER:
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0 40' 80'
HORIZONTAL SCALE
1"=40'

SIGNATURE/BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaul

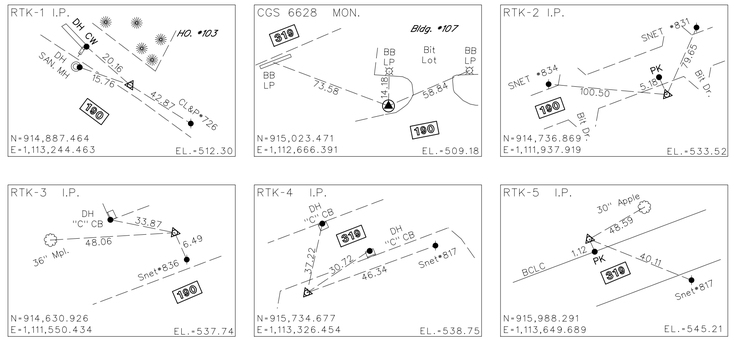
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

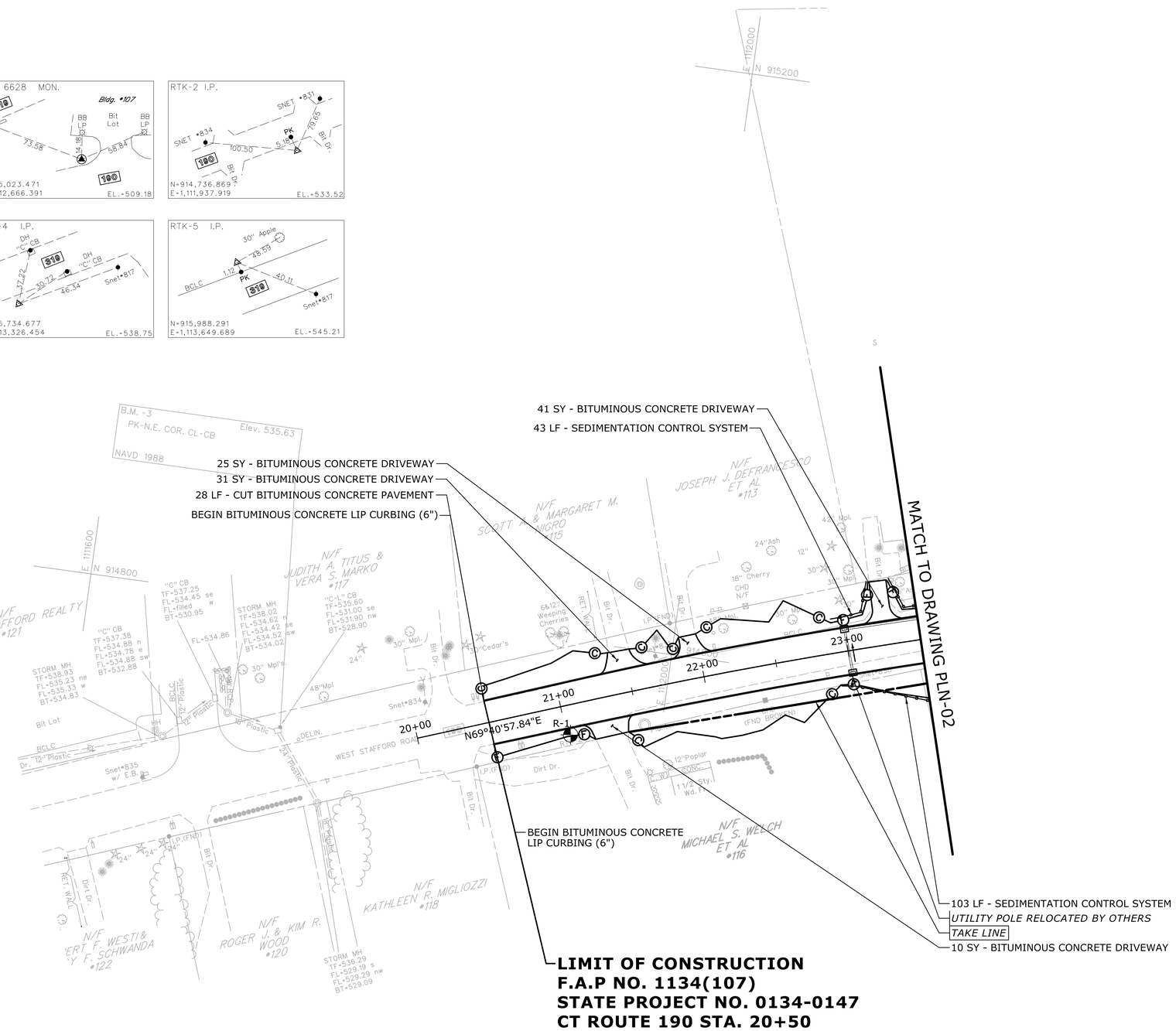
MODERN ROUNDABOUT
AT ROUTE 190 AND 319

TOWN OF STAFFORD

PROJECT NO. 134-147
DRAWING TITLE: LANDSCAPE DESIGN SHEET

DRAWING NO. LDS-01
SHEET NO. 03.38





GENERAL NOTES

1. "REMOVE STONE WALL" AS SHOWN ON PLANS SHALL BE REMOVED TO THE EXISTING RIGHT OF WAY LINE AND/OR PROPOSED TAKING LINE. LIMITS OF "REMOVE STONE WALL" WILL BE PAID FOR IN ACCORDANCE WITH ITEM NUMBER 0202100 "ROCK EXCAVATION"

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0 40' 80'
HORIZONTAL SCALE 1"=40'

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2800 BERLIN TURNPIKE
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APPROVED BY:

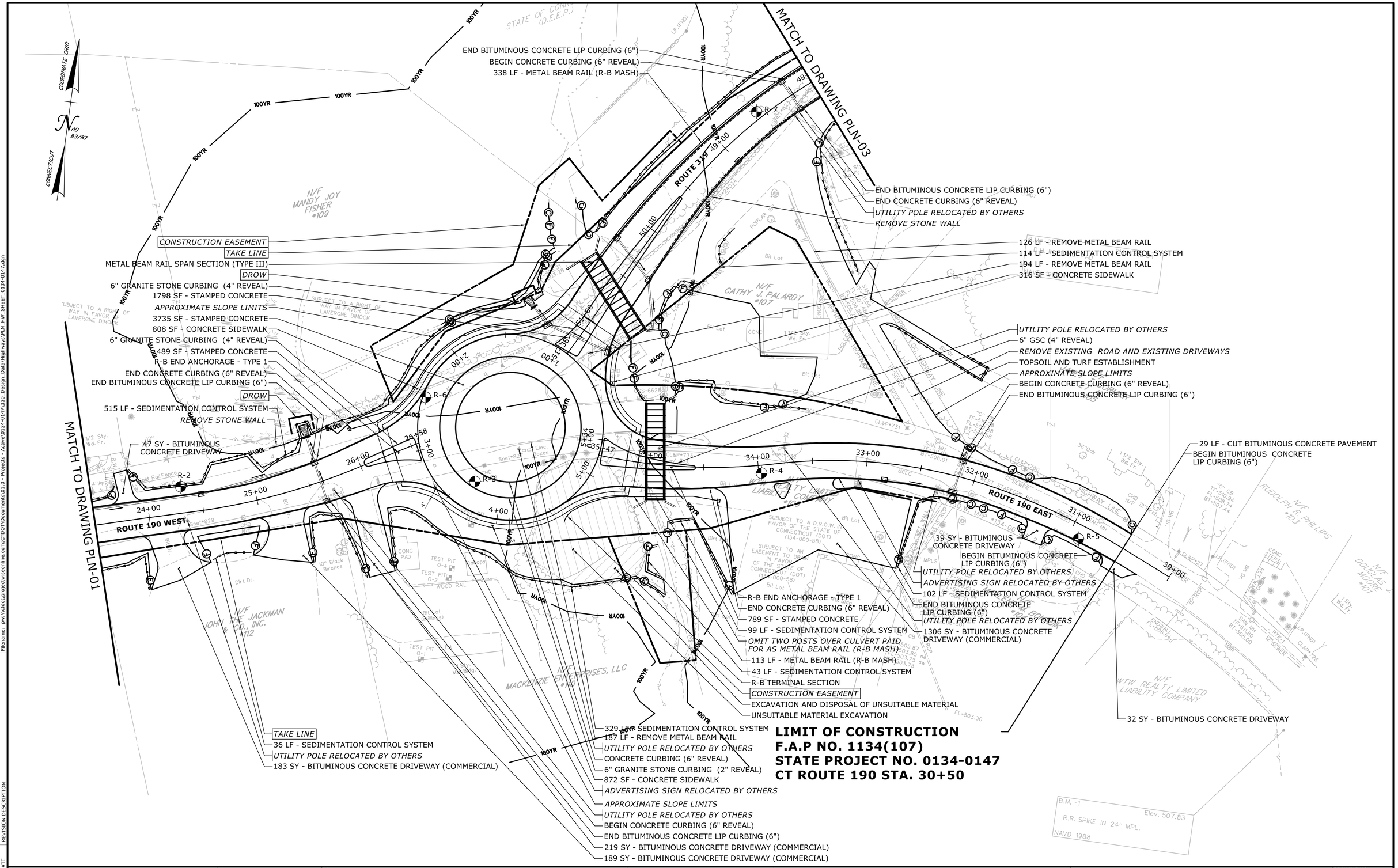
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: CONSTRUCTION PLAN

DRAWING NO. PLN-01
SHEET NO. 03.39



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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

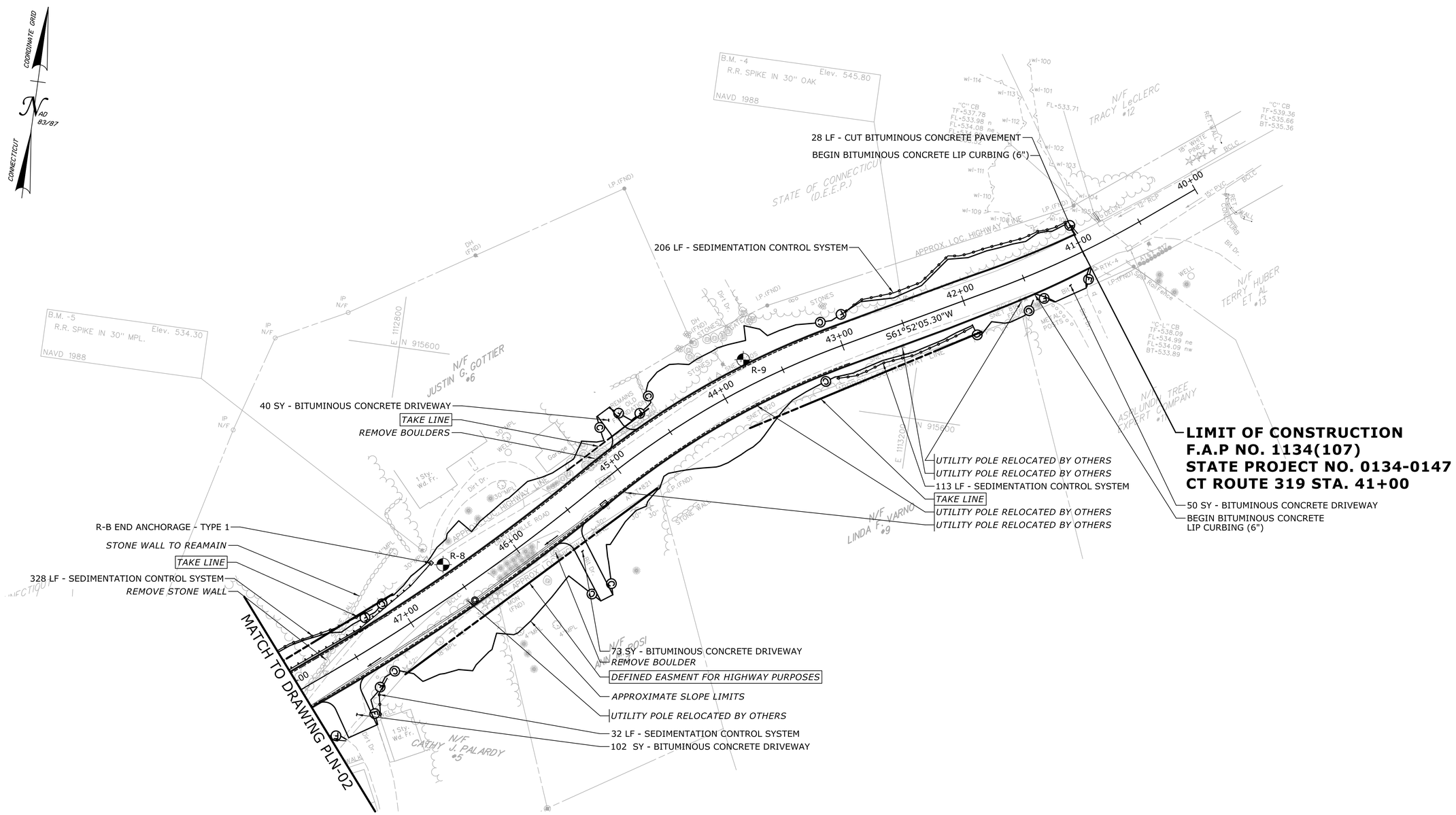
TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE: CONSTRUCTION PLAN

DRAWING NO. PLN-02

SHEET NO. 03.40



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1"=40'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Paul

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE: CONSTRUCTION PLAN

DRAWING NO.
PLN-03

SHEET NO.
03.41

Connecticut DOT Boring Report

Driller: M. Childs		Hole No.: R-1	
Inspector: R. Pion	Town: Stafford	Stat./Offset: 21+03/19.6' Rt	
Engineer: R. Pion	Project No.: 0134-0147	Northing: 914737	
Start Date: 7-19-17	Route No.: 190 & 319	Easting: 111940	
Finish Date: 7-19-17	Bridge No.:	Surface Elevation: 532.65	
Project Description: Roundabout Installation			
Casing Size/Type: 4" HSA	Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type: 0	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @12.8 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	1 1 3 4	24	16		GRAVELLY SAND	Brown c-f SAND, little f-m gravel, little silt	530
5	S-2	14 35 18 26	24	16			Gray f-c SAND, little c-f gravel, trace silt	525
10	S-3	9 17 23 32	24	18			Gray f-c SAND, little silt, little c-f gravel	520
15	S-4	10 13 6 9	24	18			Gray f-c SAND, trace silt	515
20							END OF BORING 17ft	510
25								505
30								500
35								495
40								490
45								485
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 17ft Rock: 0ft	NOTES:	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: M. Childs		Hole No.: R-2	
Inspector: R. Pion	Town: Stafford	Stat./Offset: 24+38/25.3' Lft	
Engineer: R. Pion	Project No.: 0134-0147	Northing: 914882	
Start Date: 7-19-17	Route No.: 190 & 319	Easting: 1112245	
Finish Date: 7-19-17	Bridge No.:	Surface Elevation: 513.89	
Project Description: Roundabout Installation			
Casing Size/Type: 4" HSA	Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type: 0	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @12.2 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	14 80 53 17	24	10		PAVEMENT STRUCTURE	Gray c-f GRAVEL, and c-f SAND, trace silt	510
5	S-2	2 4 6 33	24	14		GRAVELLY SAND	Gray c-f SAND, some c-f gravel, trace silt	505
10	S-3	14 38 24 14	24	24			Gray c-f SAND, little c-f gravel, trace silt	500
15	S-4	45 23 29 31	24	24			Gray f-c SAND, little silt, trace f gravel	495
20							END OF BORING 17ft	490
25								485
30								480
35								475
40								470
45								465
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 17ft Rock: 0ft	NOTES: Pavement structure consists of 10 inches of bituminous pavement bearing on 24 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: C. Knight		Hole No.: R-3	
Inspector: G. Arzt	Town: Stafford	Stat./Offset: 3+63/24.3' Lft	
Engineer: R. Pion	Project No.: 0134-0147	Northing: 914920	
Start Date: 7-25-17	Route No.: 190 & 319	Easting: 1112506	
Finish Date: 7-25-17	Bridge No.:	Surface Elevation: 508.12	
Project Description: Roundabout Installation			
Casing Size/Type: 3" HFJ	Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type:	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @4.7 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	3 5 6 4	24	14		GRAVELLY SAND	Light gray c-f SAND, trace silt	505
5	S-2	17 26 32 44	24	12			Gray c-f SAND, some c-f gravel, trace silt	500
10	S-3	17 13 7 6	24	10			Brown c-f SAND, some c-f gravel, trace silt	495
15	S-4	50	1	1		BEDROCK	Gray completely decomposed rock	490
	C-1		31	31	100		Gray medium grained, massive bedded, unfractured, fresh gneiss Core times in min/ft: 1.5, 1.0, 0.5	
20	S-5	14 14 18 13	24	13			Gray completely decomposed rock	485
25							END OF BORING 19.7ft	480
30								475
35								470
40								465
45								460
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 19.7ft Rock: 0ft	NOTES:	Sheet 1 of 1
No. of Soil Samples: 5 No. of Core Runs: 1		SM-001-M REV. 1/02

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

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OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE: BORING REPORT

DRAWING NO. BOR-01

SHEET NO. 03.42

Connecticut DOT Boring Report

Driller: C. Knight		Hole No.: R-4	
Inspector: G. Arzt	Town: Stafford	Stat./Offset: 33+98/8.5' Lft	
Engineer: R. Pion	Project No.: 0134-0147	Northing: 914964	
Start Date: 7-26-17	Route No.: 190 & 319	Easting: 1112764	
Finish Date: 7-26-17	Bridge No.:	Surface Elevation: 507.17	
Project Description: Roundabout Installation			
Casing Size/Type: 3" HFJ	Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type:	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @4.25 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	17 17 31 13	24	19		GRAVELLY SAND	Gray c-f GRAVEL, some c-f sand, trace silt	505
5	S-2	3 1 5 11	24	6			Black c-f SAND, some c-f gravel, trace silt	500
10	S-3	14 29 45 34	24	10			Gray c-f SAND, some c-f gravel, trace silt	495
15	S-4	14 42 38 76	24	11			Gray c-f SAND, little c-f gravel, trace silt	490
20							END OF BORING 17ft	485
25								480
30								475
35								470
40								465
45								460
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 17ft Rock: 0ft	NOTES:	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: M. Childs		Hole No.: R-5	
Inspector: R. Pion	Town: Stafford	Stat./Offset: 30+90.1/11.8' Lft	
Engineer: R. Pion	Project No.: 0134-0147	Northing: 914946	
Start Date: 7-19-17	Route No.: 190 & 319	Easting: 1113061	
Finish Date: 7-19-17	Bridge No.:	Surface Elevation: 511.02	
Project Description: Roundabout Installation			
Casing Size/Type: 4" HSA	Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type: 0	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @10.2 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	6 14 15 17	24	18		PAVEMENT STRUCTURE/ GRAVELLY SAND	Gray c-f SAND, trace f gravel, trace silt	510
5	S-2	1 7 12 18	24	16			Gray c-f SAND, little c-f gravel, trace silt	505
10	S-3	16 13 9 9	24	20			Gray c-f GRAVEL, some c-f sand, trace silt	500
15	S-4	36 29 18 13	24	21		SILTY SAND	Gray f-c SAND, little silt, little c-f gravel	495
20							END OF BORING 19ft	490
25								485
30								480
35								475
40								470
45								465
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 19ft Rock: 0ft	NOTES: Pavement structure consists of 9.5 inches of bituminous pavement with no discernable subbase Encountered 14" of blowback at 10 foot sample	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: M. Childs		Hole No.: R-6	
Inspector: G. Arzt	Town: Stafford	Stat./Offset: 2+38/2.0' Rt	
Engineer: R. Pion	Project No.: 0134-0147	Northing: 914983	
Start Date: 7-18-17	Route No.: 190 & 319	Easting: 1112444	
Finish Date: 7-18-17	Bridge No.:	Surface Elevation: 508.12	
Project Description: Roundabout Installation			
Casing Size/Type: 4" HSA	Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type: 0	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @4.5 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	2 2 3 7	24	13		TOPSOIL	Black f-c SAND, little silt	505
5	S-2	8 11 11 23	24	1		GRAVELLY SAND	Gray rock pieces	500
10	S-3	9 19 34 30	24	16			Gray c-f SAND, little f-m gravel, trace silt	495
15	S-4	6 9 16 16	24	15			Gray c-f SAND, little f-m gravel, trace silt	490
20							END OF BORING 17ft	485
25								480
30								475
35								470
40								465
45								460
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 17ft Rock: 0ft	NOTES:	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 0		SM-001-M REV. 1/02

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/8/2019
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SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: BORING REPORT

DRAWING NO. BOR-02
SHEET NO. 03.43

Connecticut DOT Boring Report

Driller: C. Knight	Hole No.: R-7		
Inspector: G. Arzt	Town: Stafford	Stat./Offset: 48+57/4.7' Rt	
Engineer: R. Pion	Project No.: 0134-0147	Northing: 915291	
Start Date: 7-27-17	Route No.: 190 & 319	Easting: 1112716	
Finish Date: 7-27-17	Bridge No.:	Surface Elevation: 509.73	
Project Description: Roundabout Installation			
Casing Size/Type: 3" HFJ	Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type:	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @4.5 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	1 1 1 4	24	12		TOPSOIL	Black f-c SAND, some silt, trace f gravel	
						GRAVELLY SAND		
5	S-2	19 27 25 30	24	15			Gray c-f GRAVEL, and c-f SAND, trace silt	505
10	S-3	32 43 53 38	24	13			Gray c-f SAND, some f-m gravel, trace silt	500
15	S-4	22 25 31 95	24	12			Gray c-f SAND, little silt, little f-m gravel	495
20							END OF BORING 19ft	490
25								485
30								480
35								475
40								470
45								465
50								460

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 19ft Rock: 0ft	NOTES: Pavement structure consists of 14 inches of bituminous pavement with no discernable subbase	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 0		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: M. Childs	Hole No.: R-8		
Inspector: G. Arzt	Town: Stafford	Stat./Offset: 46+56/23.1' Rt	
Engineer: R. Pion	Project No.: 0134-0147	Northing: 915443	
Start Date: 7-18-17	Route No.: 190 & 319	Easting: 1112857	
Finish Date: 7-18-17	Bridge No.:	Surface Elevation: 531.62	
Project Description: Roundabout Installation			
Casing Size/Type: 4" HSA	Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type: NQ2	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @5.6 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ GRAVELLY SAND		530
	S-1	21 35 36 43	24	17			Light gray c-f SAND, and f-m GRAVEL, trace silt	
5						BEDROCK		525
	C-1		60	60	93		Gray medium grained, massive bedded, unfractured, fresh gneiss Core times in min/ft: 6.0, 10.0, 8.5, 13.0, 13.0	
10							END OF BORING 9ft	520
15								515
20								510
25								505
30								500
35								495
40								490
45								485
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 4ft Rock: 5ft	NOTES:	Sheet 1 of 1
No. of Soil Samples: 1 No. of Core Runs: 1		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: M. Childs	Hole No.: R-9		
Inspector: G. Arzt	Town: Stafford	Stat./Offset: 43+75/19.9' Rt	
Engineer: R. Pion	Project No.: 0134-0147	Northing: 915627	
Start Date: 7-18-17	Route No.: 190 & 319	Easting: 1113066	
Finish Date: 7-18-19	Bridge No.:	Surface Elevation: 545.46	
Project Description: Roundabout Installation			
Casing Size/Type: 4" HSA	Sampler Type/Size: 1 3/8" ID SS	Core Barrel Type: 0	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @Dry after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	12 13 13 14	24	15		GRAVELLY SAND	Brown c-f SAND, little c-f gravel, trace silt	545
5	S-2	15 14 14 12	24	15			Gray c-f SAND, little c-f gravel, trace silt	540
10	S-3	13 15 88	17	12			Gray c-f SAND, little c-f gravel, trace silt	535
15	S-4	19 13 14 17	24	13			Gray c-f SAND, some m-f gravel, trace silt	530
20							END OF BORING 17ft	525
25								520
30								515
35								510
40								505
45								500
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 17ft Rock: 0ft	NOTES:	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 0		SM-001-M REV. 1/02

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/8/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\BOR_HW_SHEET_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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-	-	-
-	-	-
-	-	-

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

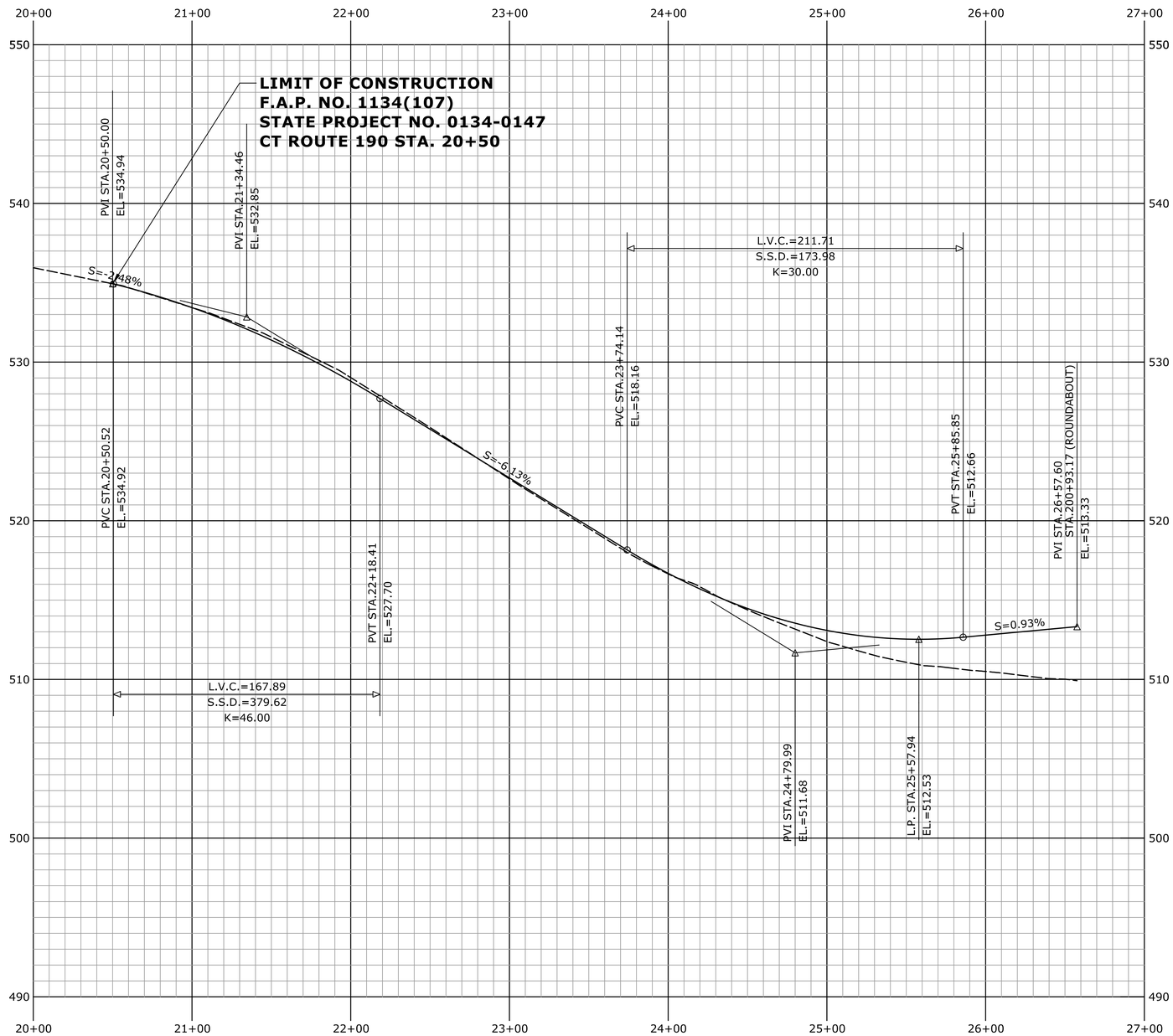
MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: BORING REPORT

DRAWING NO. BOR-03
SHEET NO. 03.44

ROUTE 190 WEST



LINE	SURFACE	OFFSET
— —	existing	0.000

Scaled 10.0000 Times Ver.
Scaled 1.0000 Times Hor.

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/8/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\PRO_HW_SHEET_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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-	-	-
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0 40' 80'
HORIZONTAL SCALE
1"=40'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

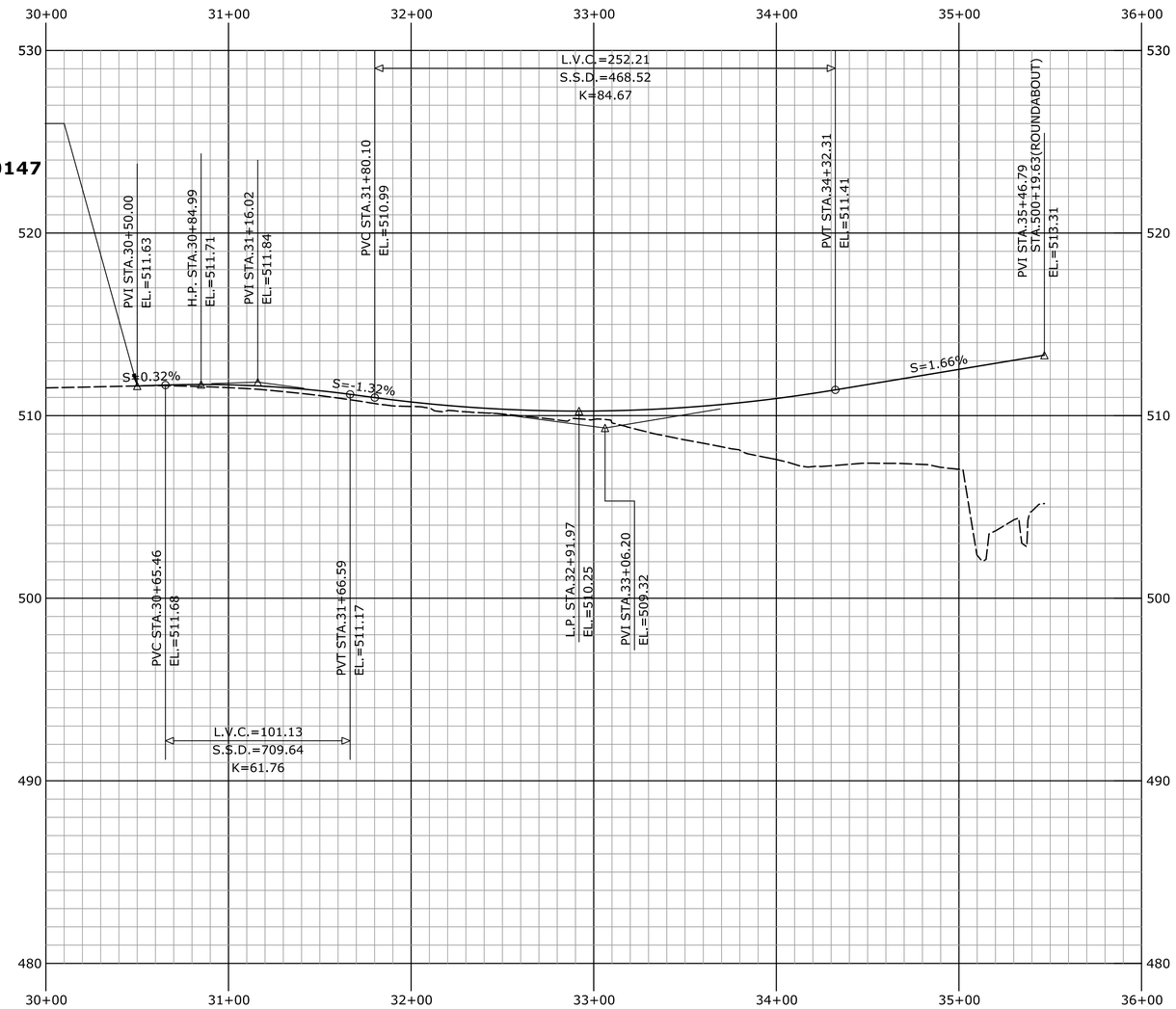
PROJECT NO. 0134-0147
DRAWING TITLE: PROFILE SHEET - ROUTE 190 WEST

DRAWING NO.
PRO-01

SHEET NO.
03.45

ROUTE 190 EAST

LIMIT OF CONSTRUCTION
F.A.P. NO. 1134(107)
STATE PROJECT NO. 0134-0147
CT ROUTE 190 STA. 30+50



LINE	SURFACE	OFFSET
——	existing	0.000

Scaled 10.0000 Times Ver.
Scaled 1.0000 Times Hor.

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/8/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\PRO_HW_SHEET_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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-	-	-
-	-	-
-	-	-

0 40' 80'
HORIZONTAL SCALE
1"=40'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaul

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

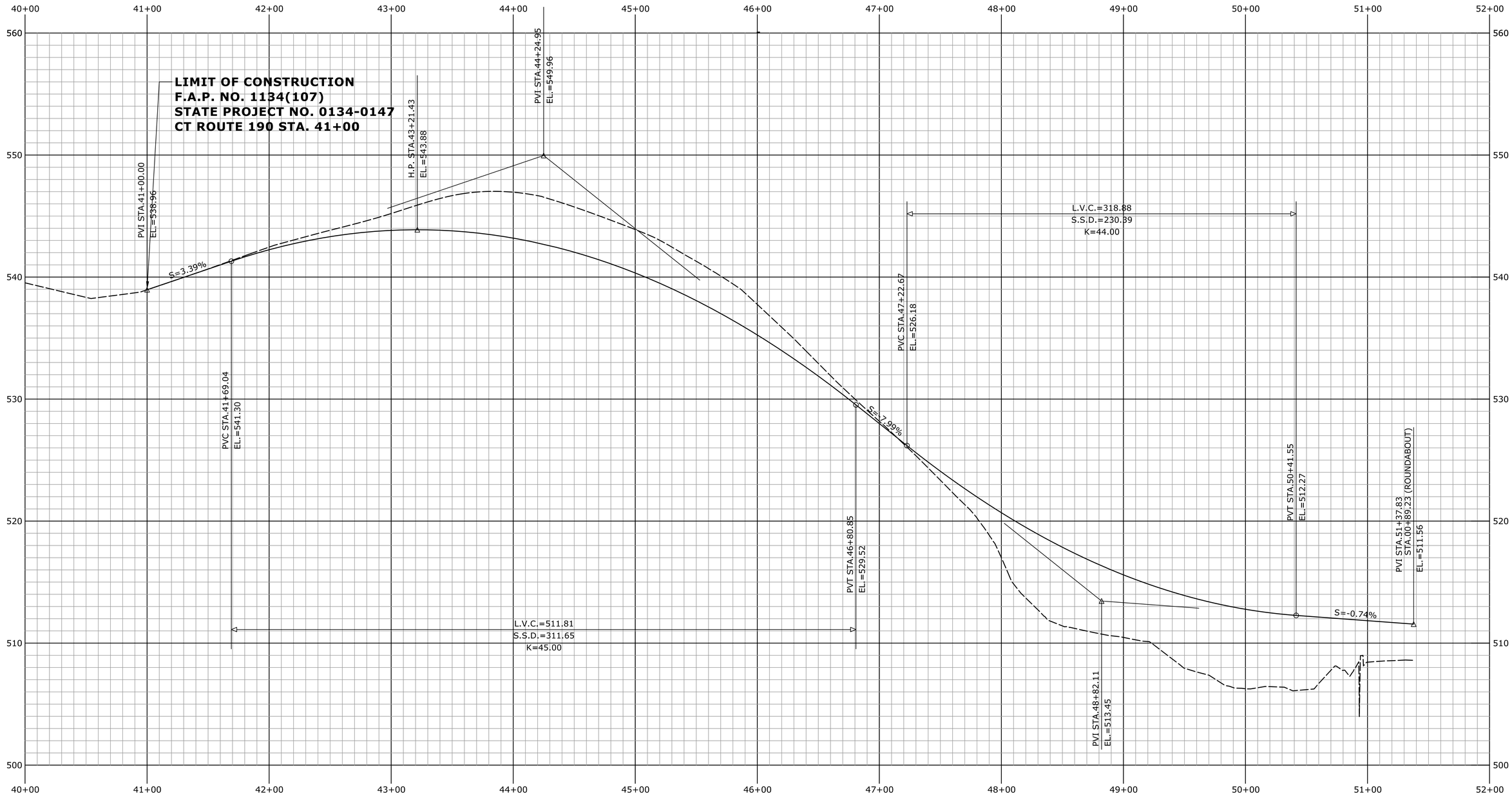
MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOEN OF STAFFORD

PROJECT NO. 0134-0147
DRAWING TITLE: PROFILE SHEET - ROUTE 190 EAST

DRAWING NO. PRO-02
SHEET NO. 03.46

ROUTE 319



LINE	SURFACE	OFFSET
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Scaled 10.0000 Times Ver.
Scaled 1.0000 Times Hor.

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/8/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\PRO_HW_SHEET_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
-	-	-

0 40' 80'
HORIZONTAL SCALE
1"=40'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

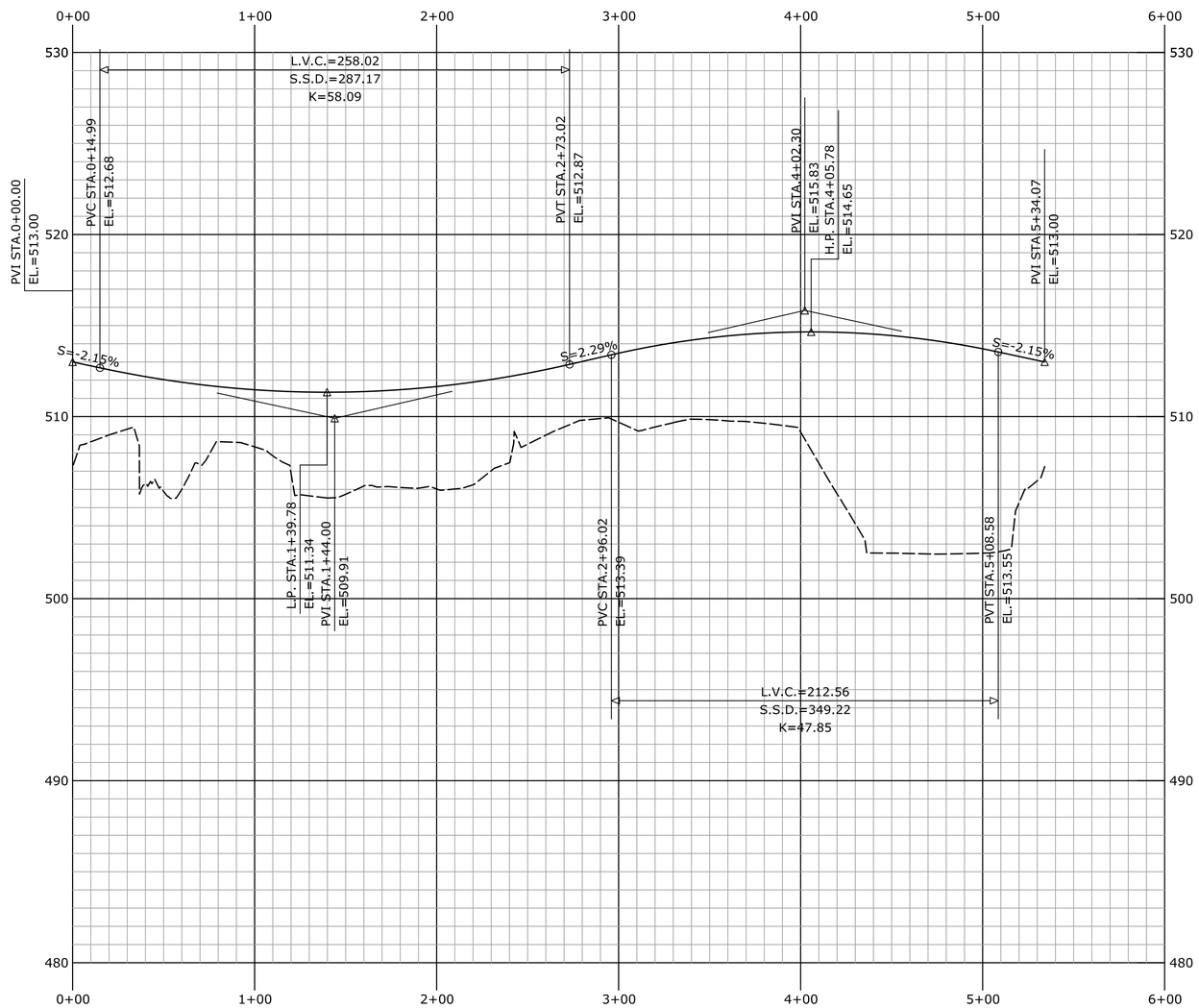
PROJECT NO. 0134-0147

DRAWING TITLE: PROFILE SHEET - ROUTE 319

DRAWING NO.
PRO-03

SHEET NO.
03.47

ROUNDABOUT



LINE	SURFACE	OFFSET
— —	existing	0.000

Scaled 10.0000 Times Ver.
Scaled 1.0000 Times Hor.

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/8/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\PRO_HW_SHEET_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 40' 80'
HORIZONTAL SCALE
1"=40'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOEN OF STAFFORD

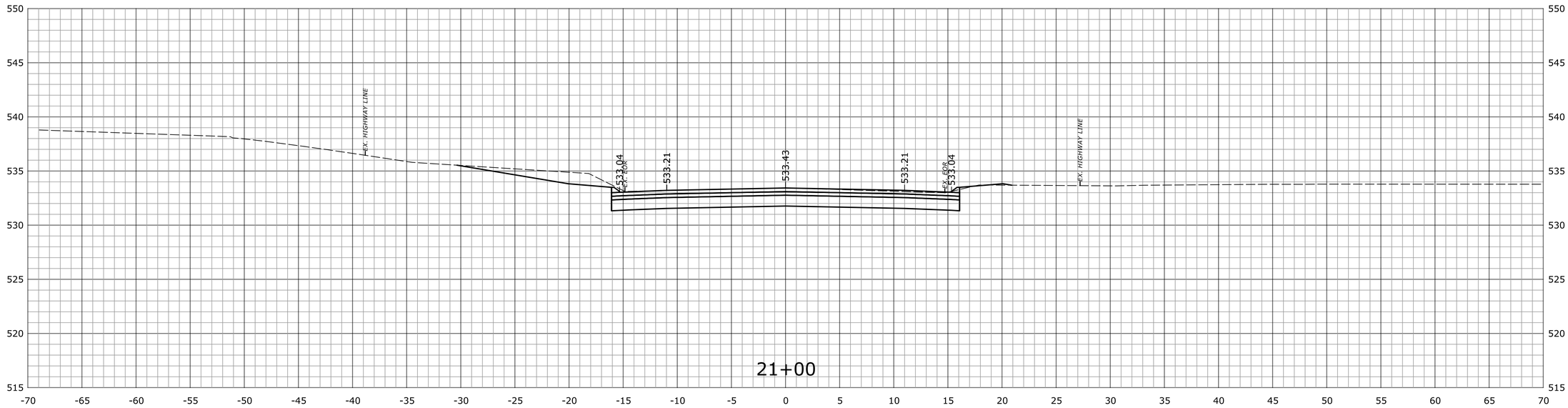
PROJECT NO. 0134-0147

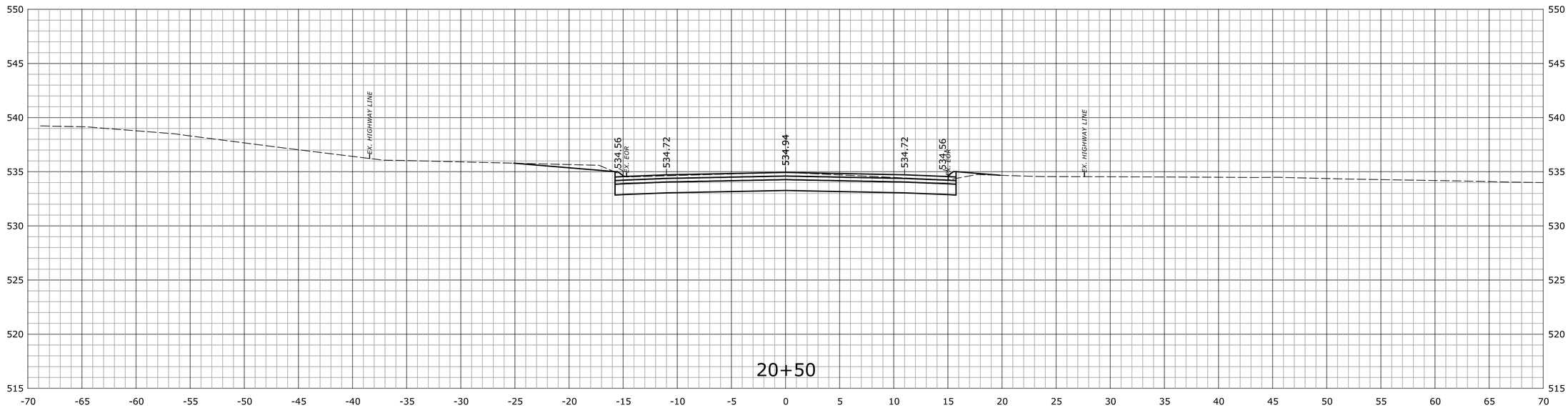
DRAWING TITLE: PROFILE SHEET - ROUNDABOUT

DRAWING NO. PRO-04

SHEET NO. 03.48

STA.20+50 TO STA.21+00





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

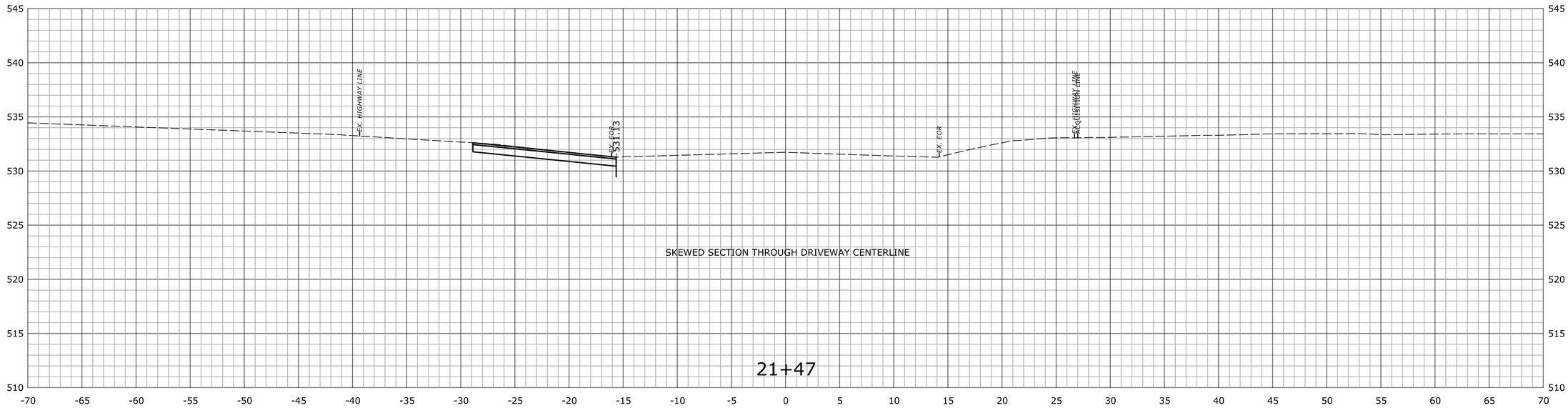
PROJECT NO. 0134-0147

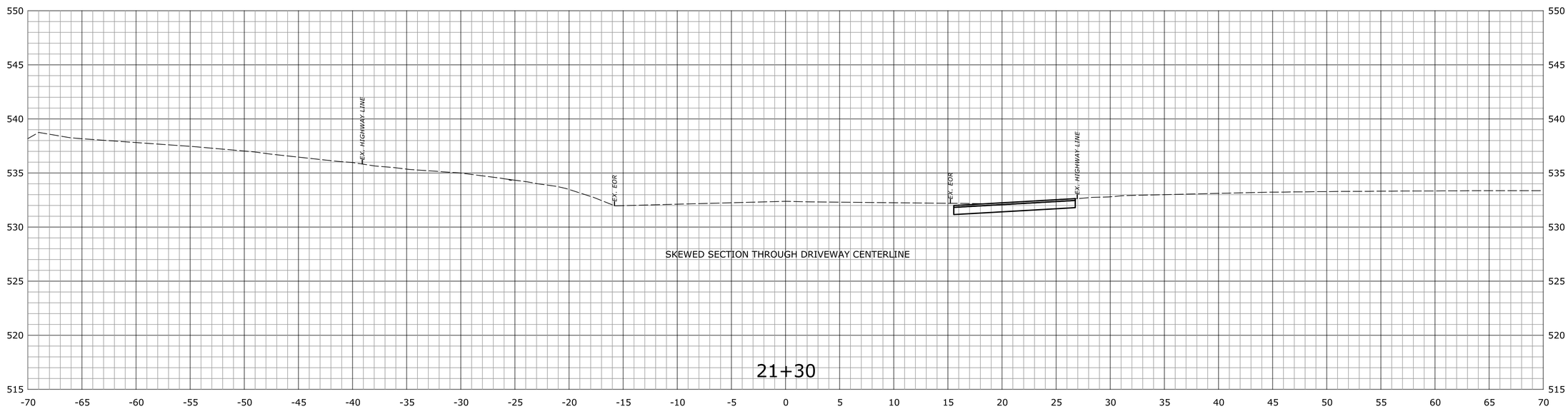
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-01

SHEET NO.
03.49

STA.21+30 TO STA.21+47





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

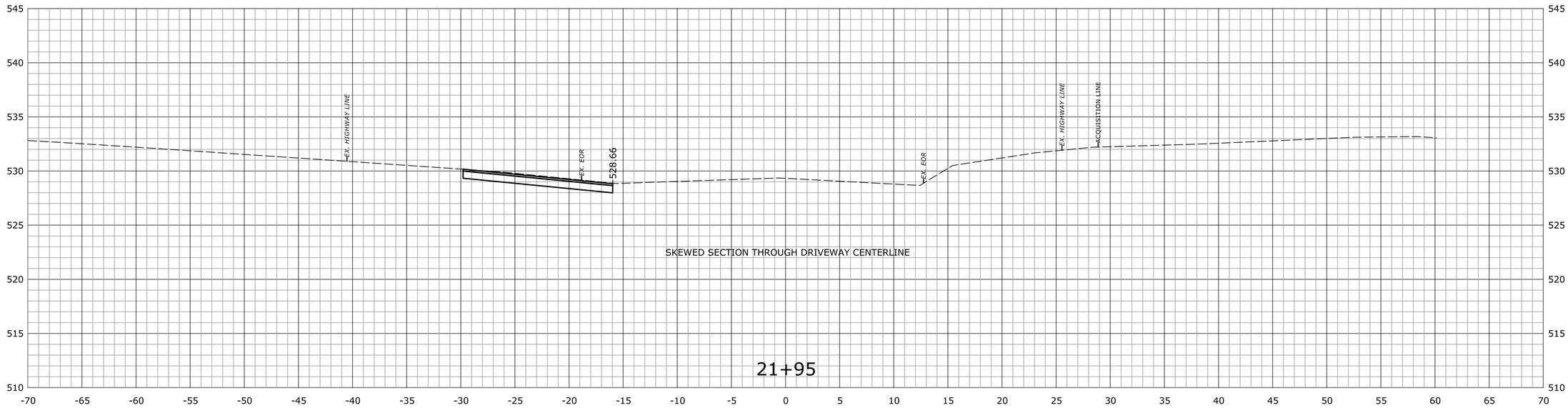
PROJECT NO. 0134-0147

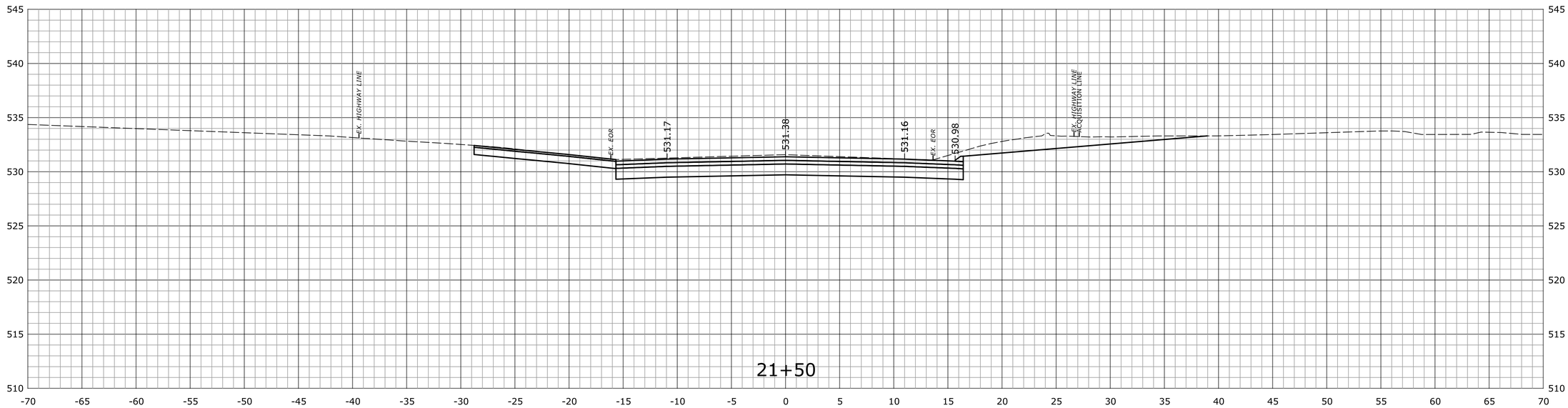
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-02

SHEET NO.
03.50

STA.21+50 TO STA.21+95





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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-	-	-

0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

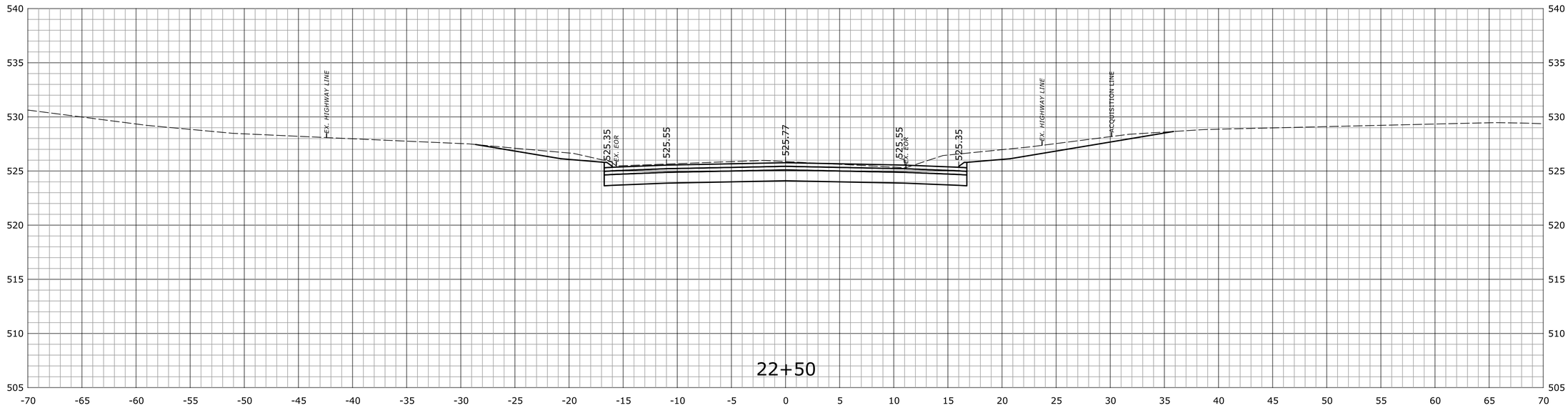
PROJECT NO. 0134-0147

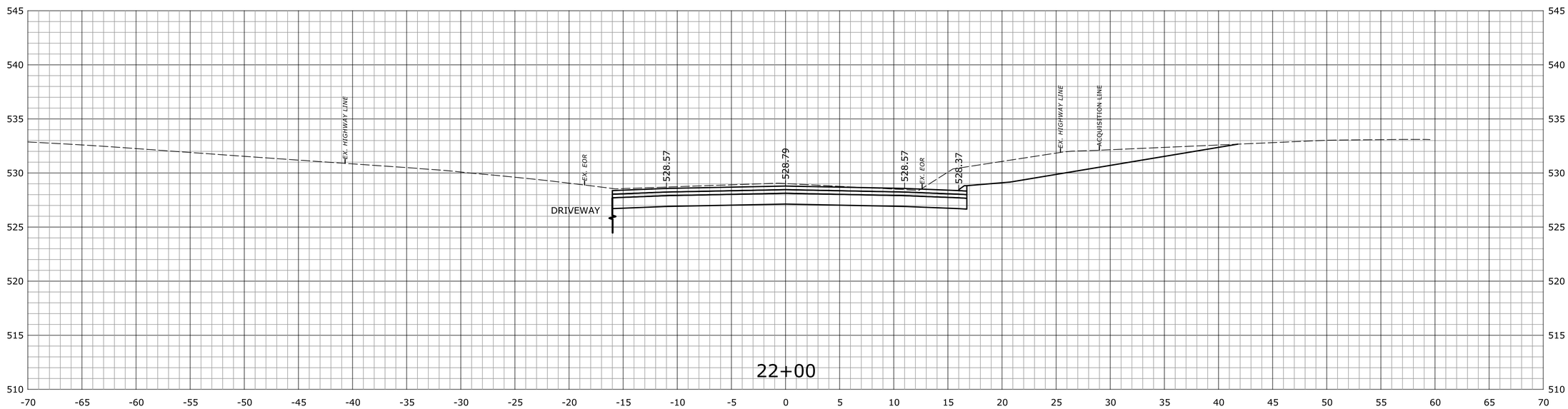
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-03

SHEET NO.
03.51

STA.22+00 TO STA.22+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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-	-	-

0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT RUOTE 190 AND ROUTE 319

TOWN OF STAFFORD

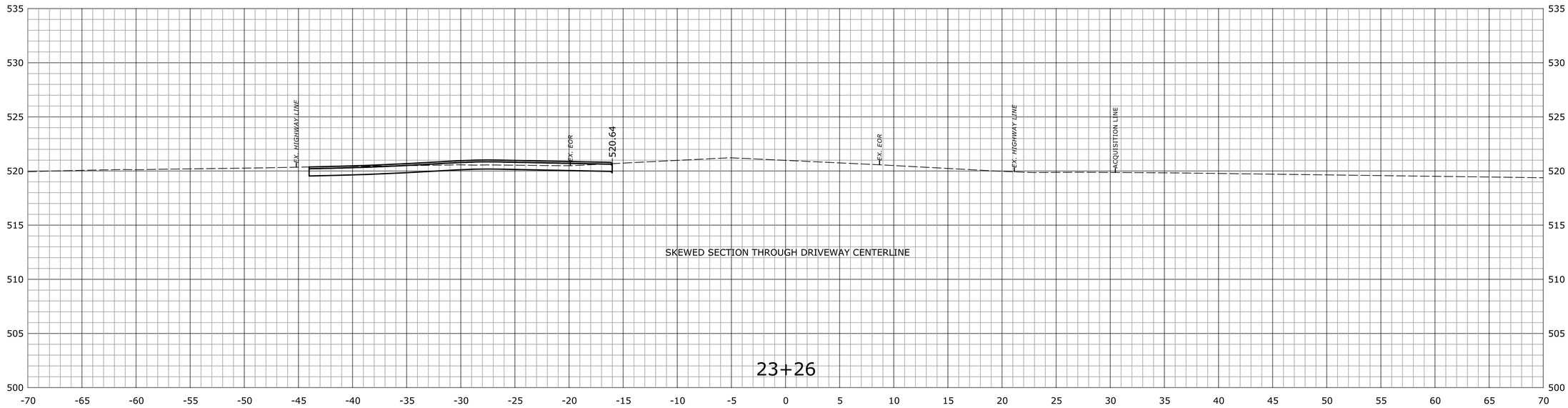
PROJECT NO. 0134-0147

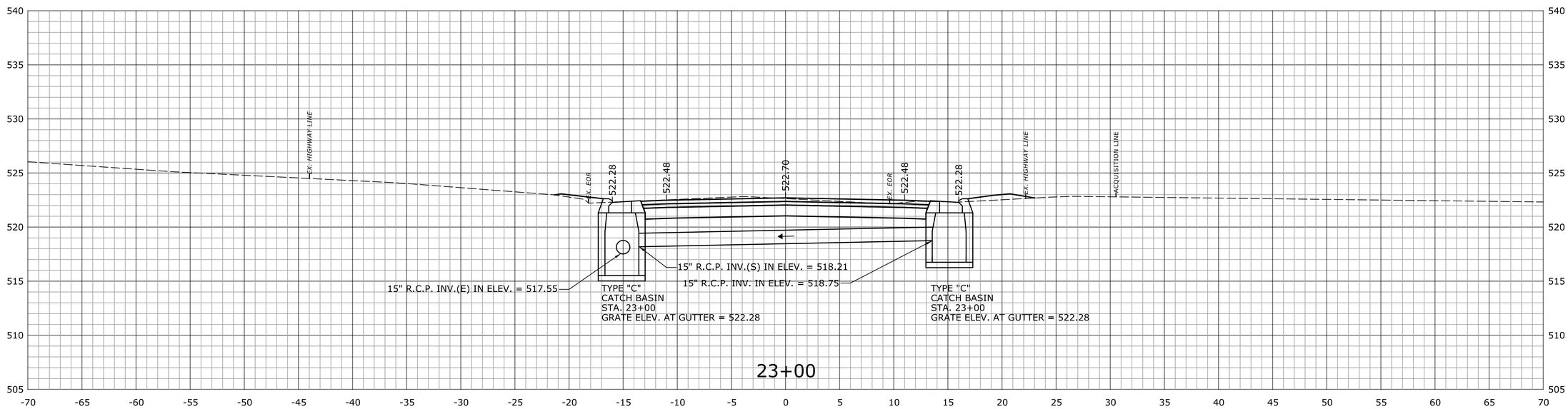
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-04

SHEET NO.
03.52

STA.23+00 TO STA.23+26





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
-	-	-

HORIZONTAL SCALE 1"=5' (0, 5', 10')

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

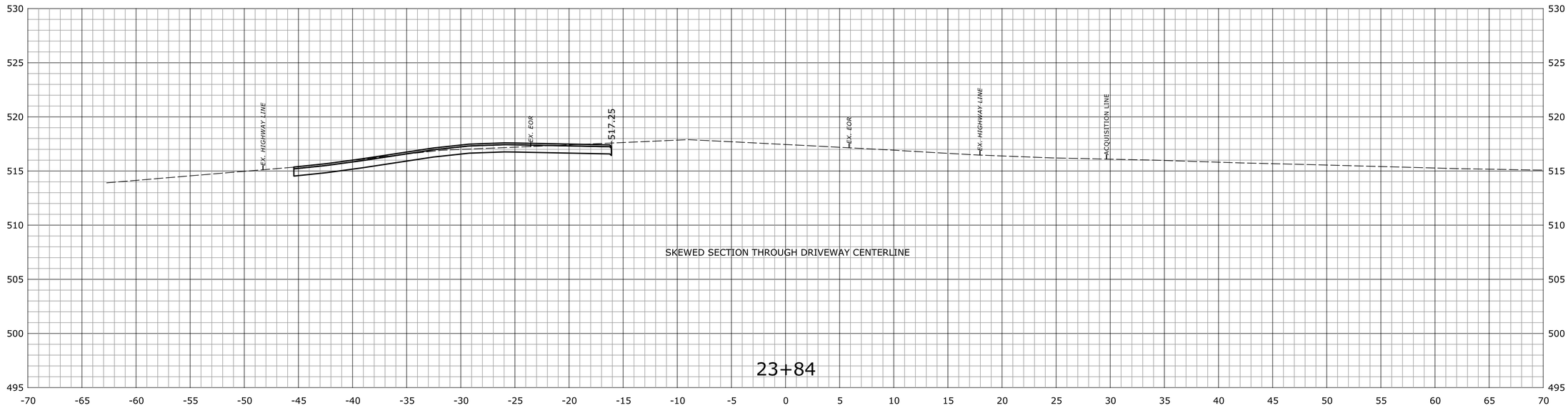
PROJECT NO. 0134-0147

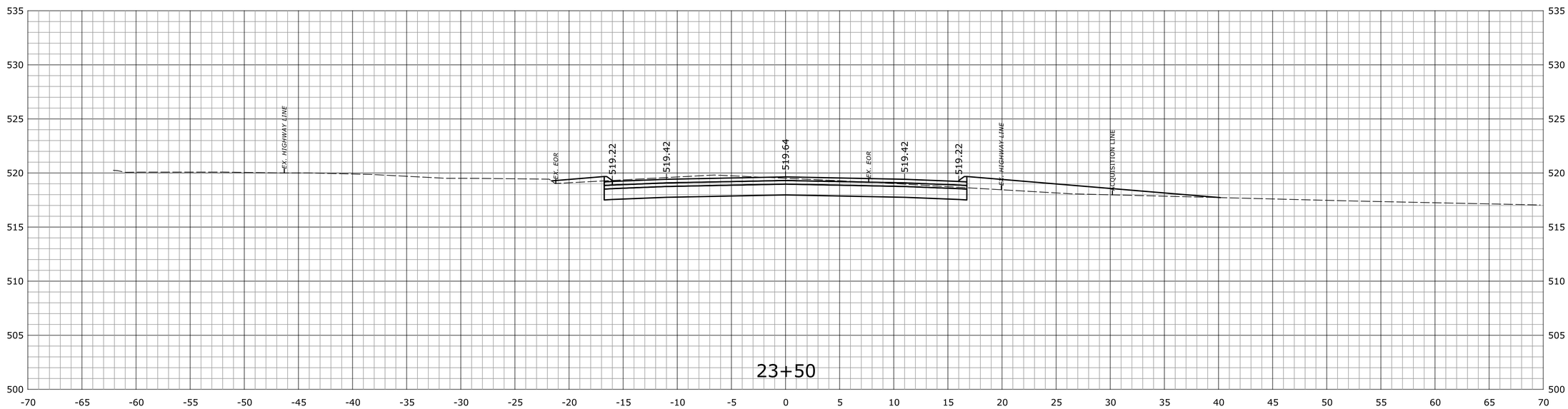
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO. XSC-05

SHEET NO. 03.53

STA.23+50 TO STA.23+84





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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-	-	-
-	-	-
-	-	-

0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

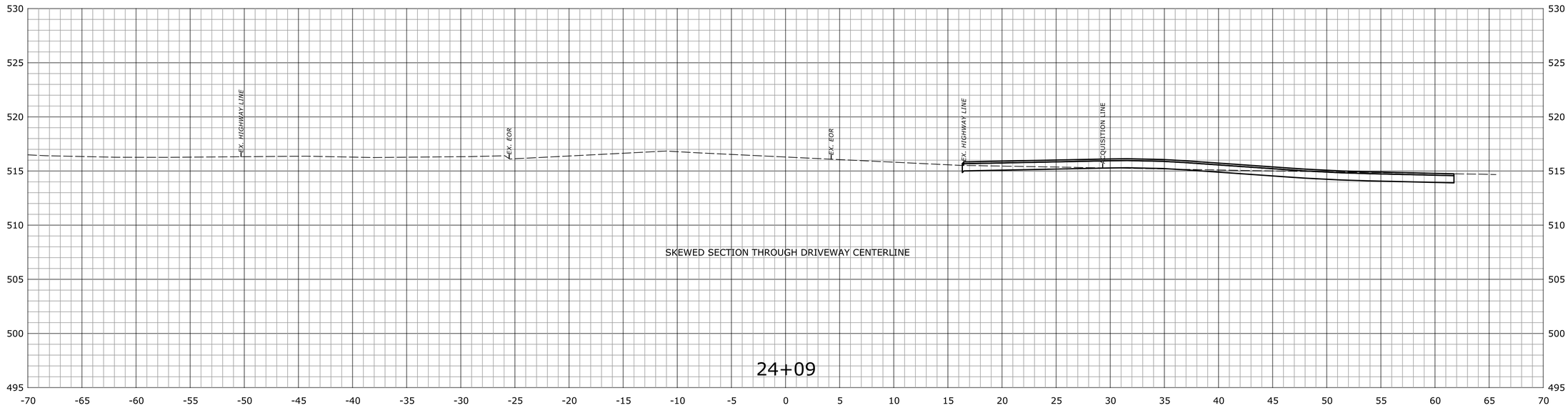
PROJECT NO. 0134-0147

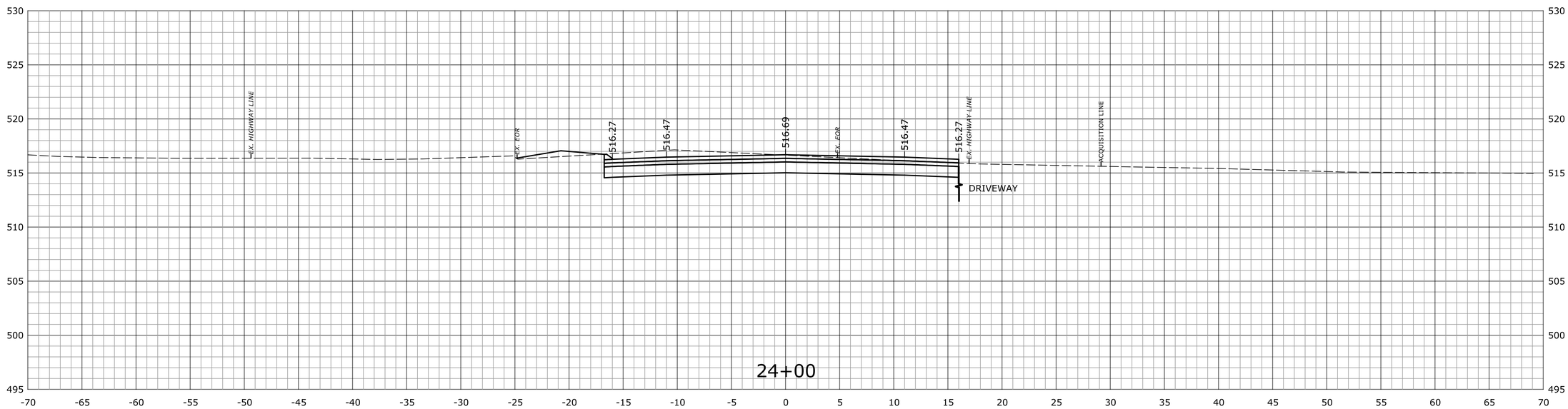
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-06

SHEET NO.
03.54

STA.24+00 TO STA.24+09





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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-	-	-
-	-	-
-	-	-
-	-	-

0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

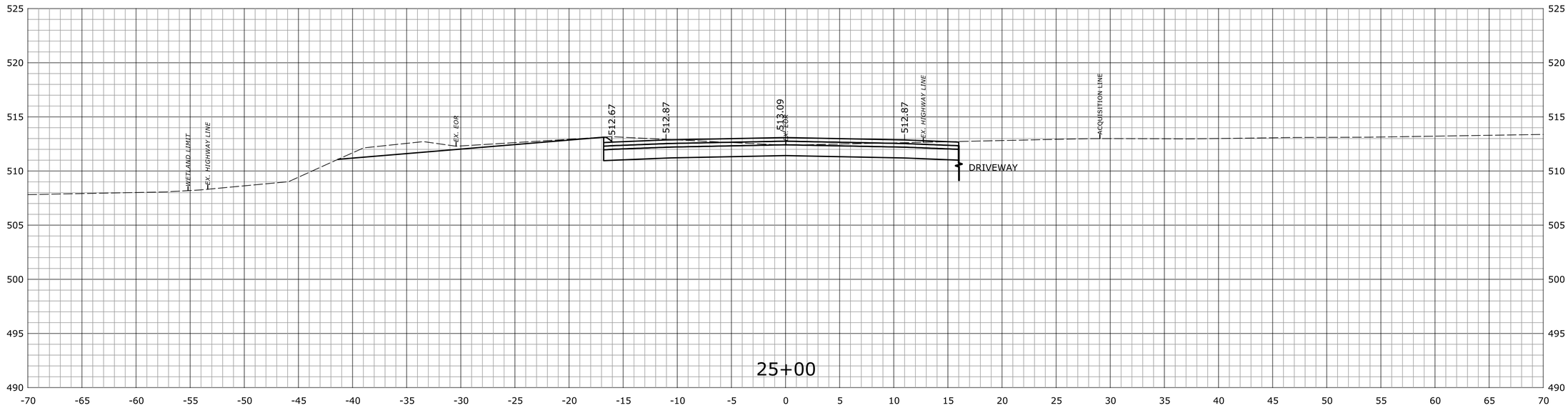
PROJECT NO. 0134-0147

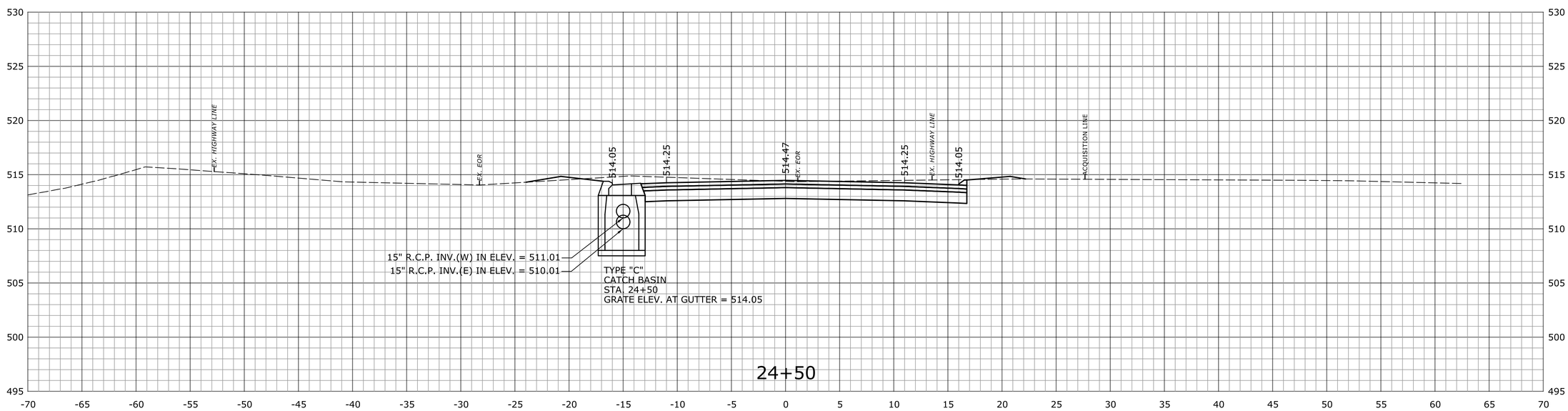
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-07

SHEET NO.
03.55

STA.24+50 TO STA.25+00





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

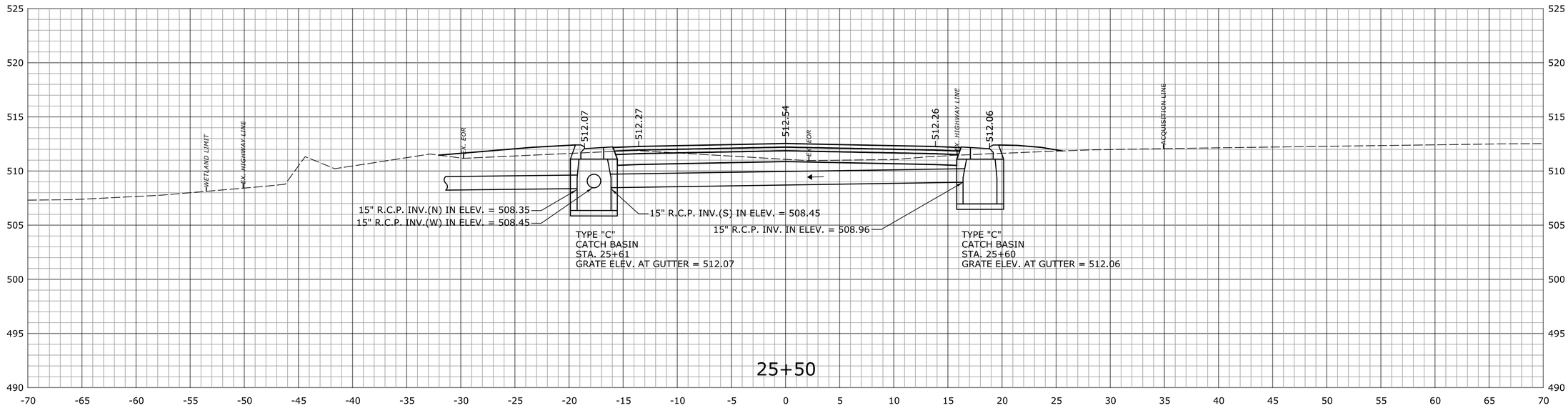
PROJECT NO. 0134-0147

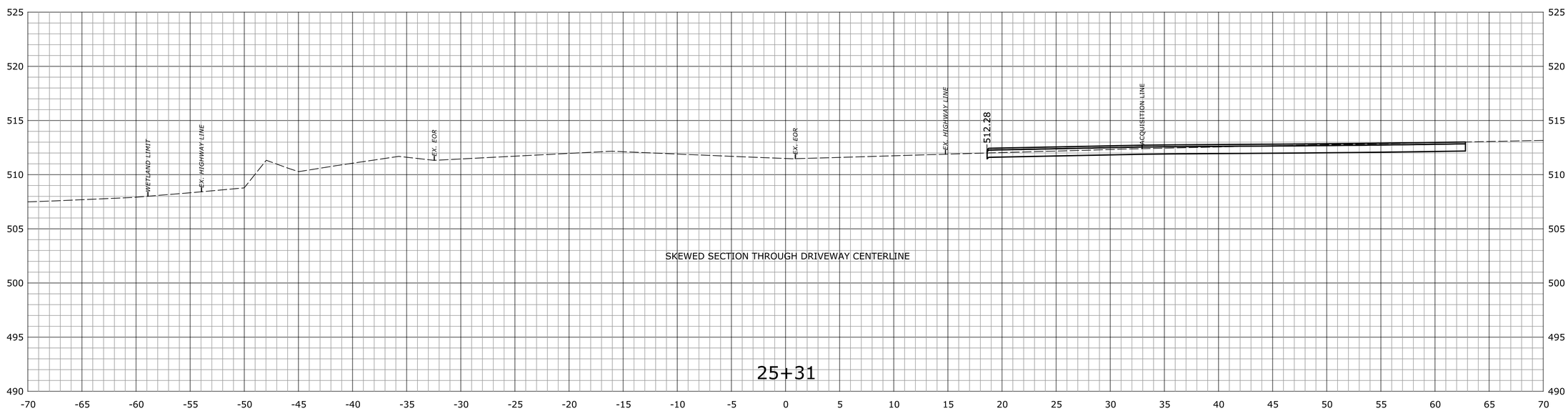
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-08

SHEET NO.
03.56

STA.25+31 TO STA.25+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaal

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDBAOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

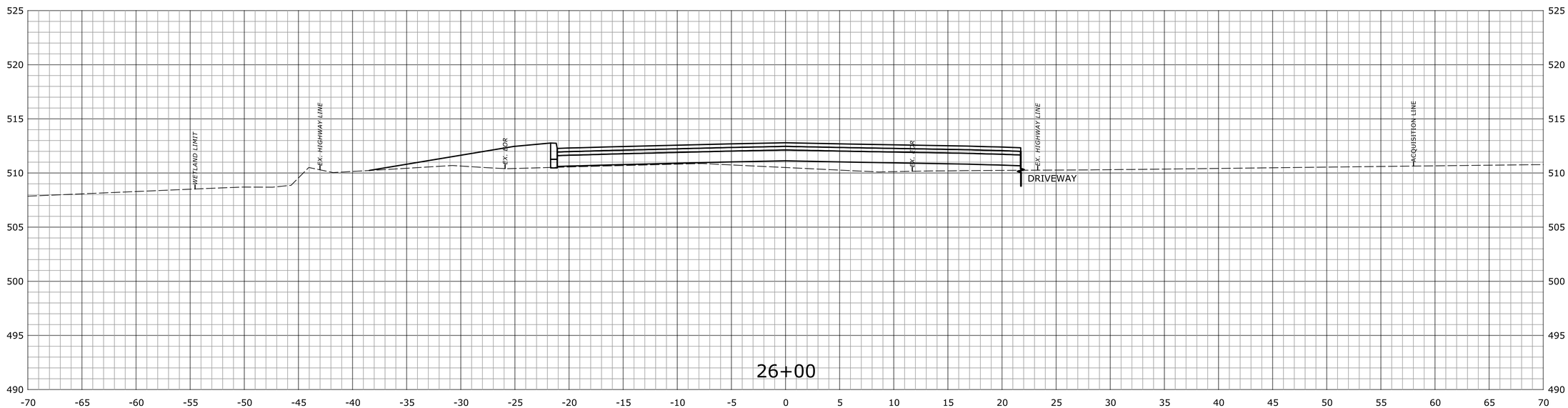
PROJECT NO. 0134-0147

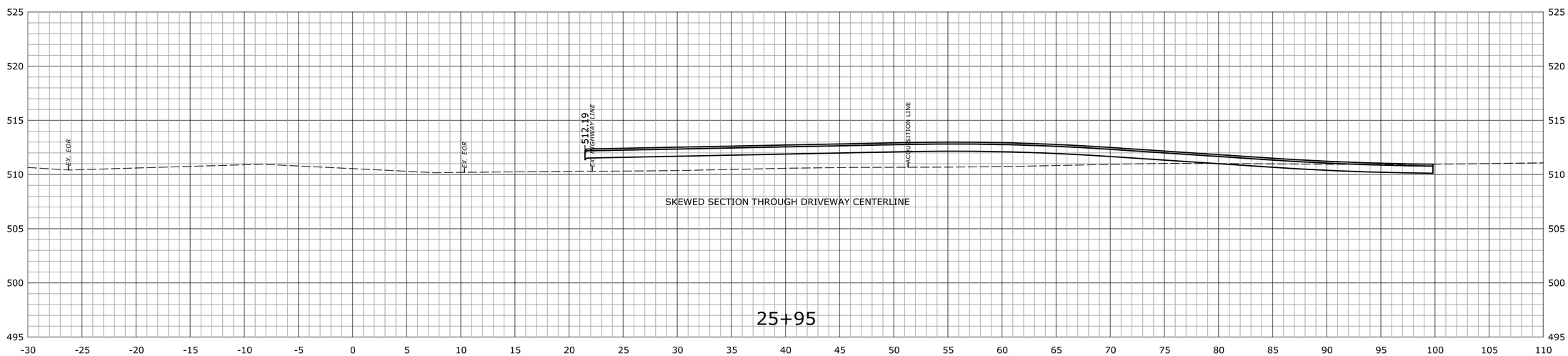
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-09

SHEET NO.
03.57

STA.25+95 TO STA.26+00





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Ford

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

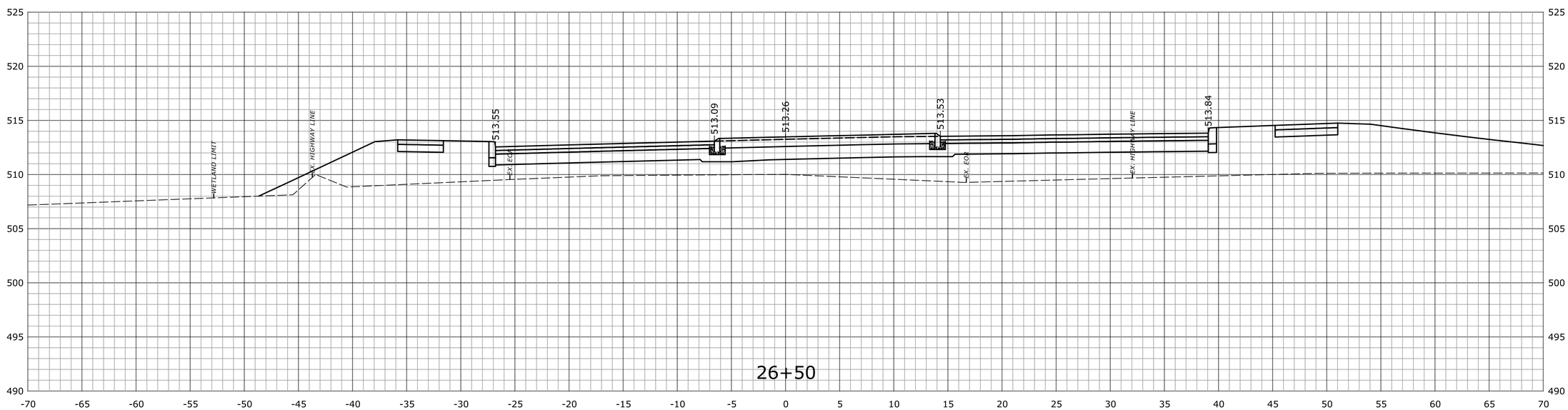
PROJECT NO. 0134-0147

DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-10

SHEET NO.
03.58

STA.26+50 TO STA.26+50



DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\cdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

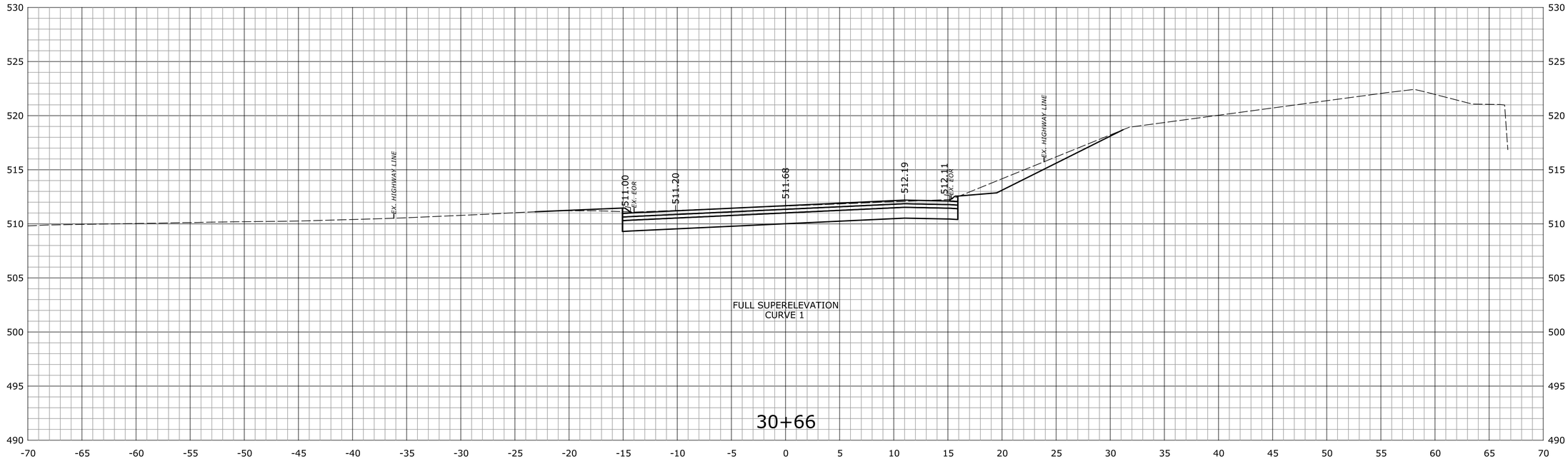
PROJECT NO. 0134-0147

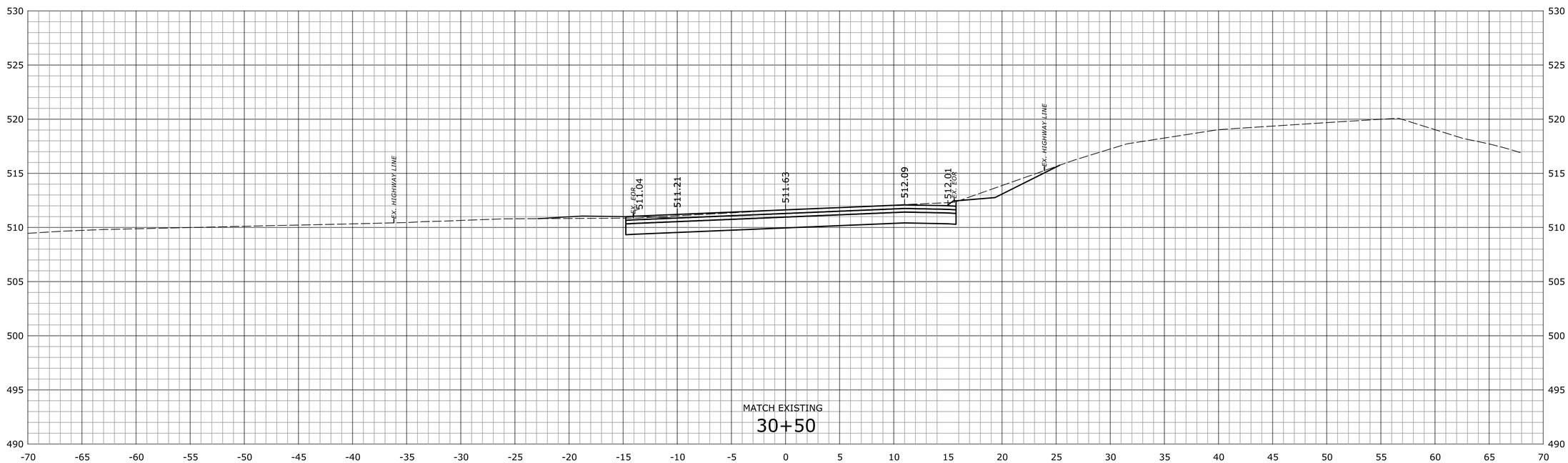
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 WEST

DRAWING NO.
XSC-11

SHEET NO.
03.59

STA.30+50 TO STA.30+66





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoadS_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

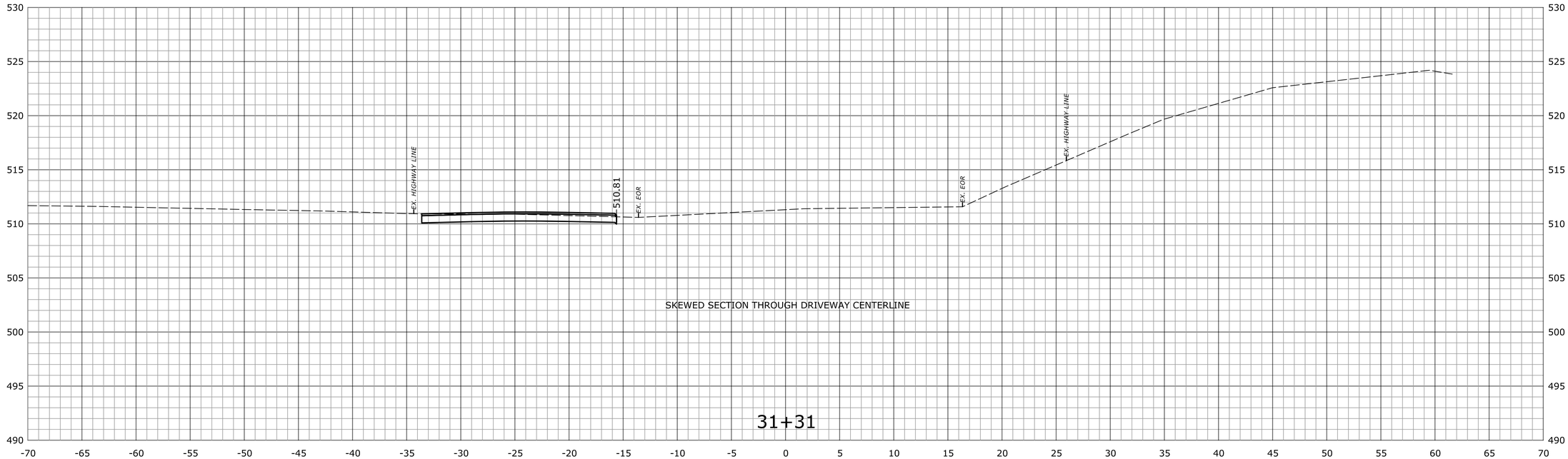
PROJECT NO. 0134-0147

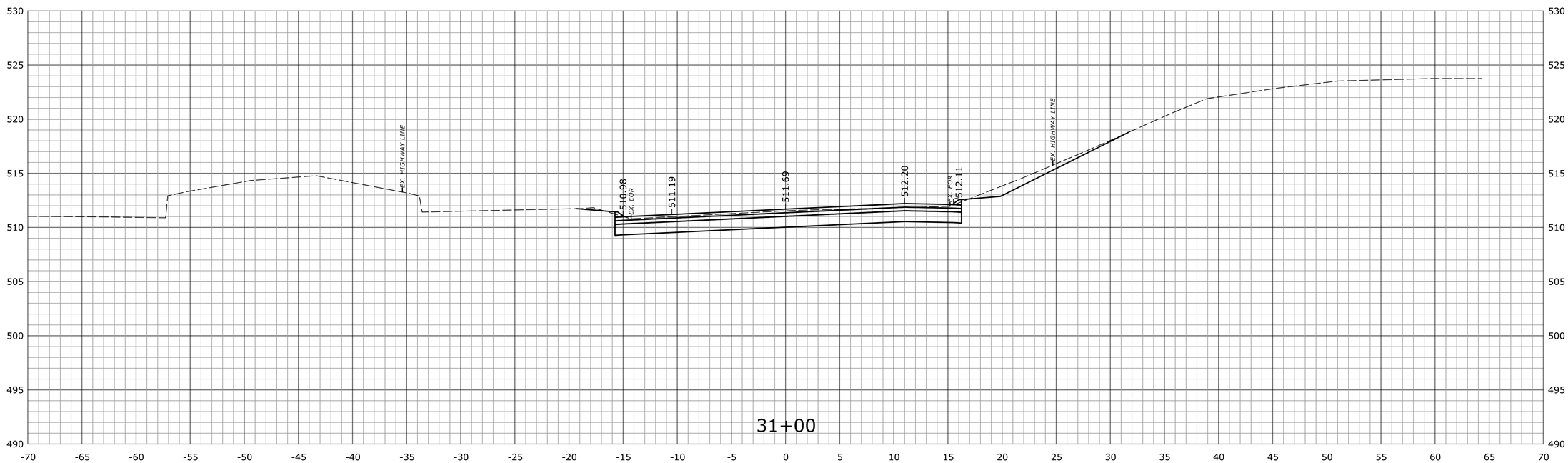
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-12

SHEET NO.
03.60

STA.31+00 TO STA.31+31





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOFN OF STAFFORD

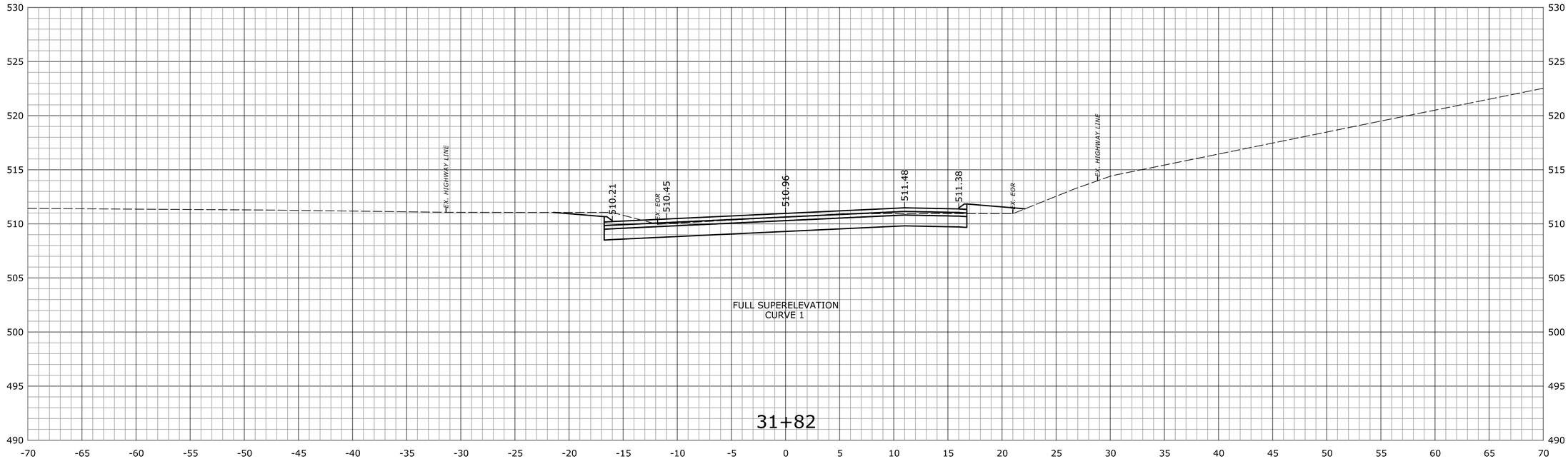
PROJECT NO. 0134-0147

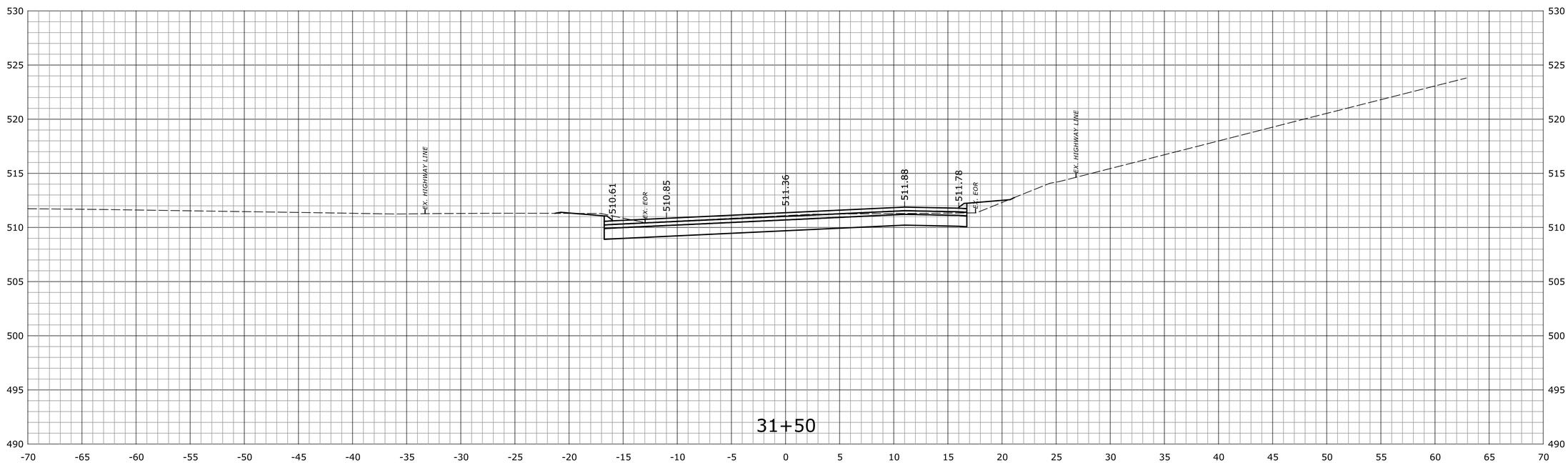
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-13

SHEET NO.
03.61

STA.31+50 TO STA.31+82





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoadS_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

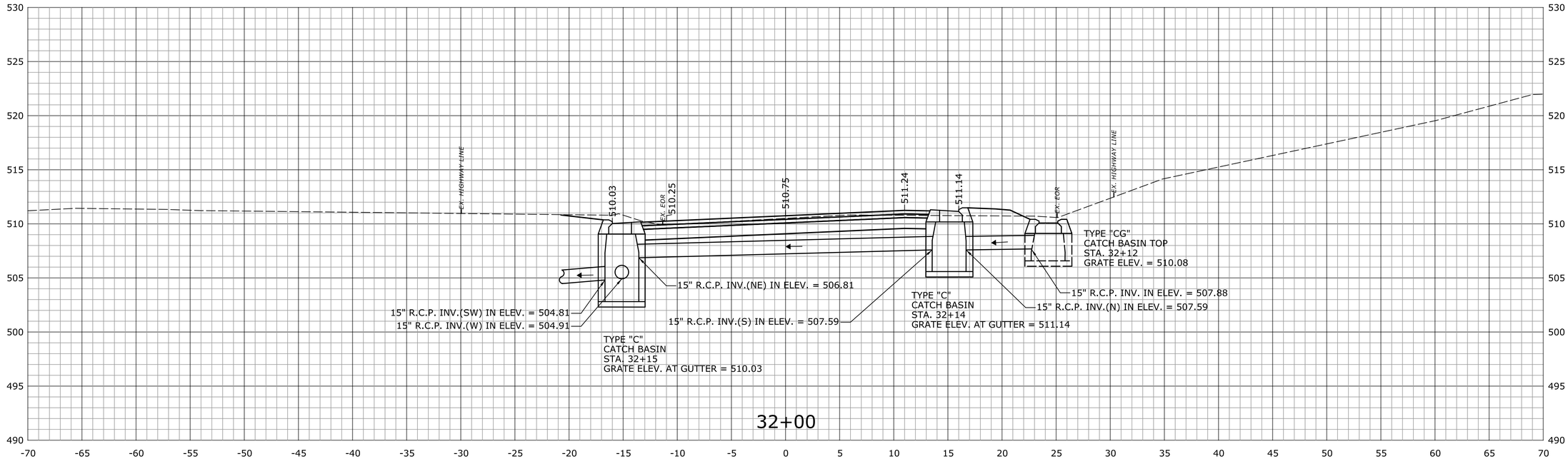
PROJECT NO. 0134-0147

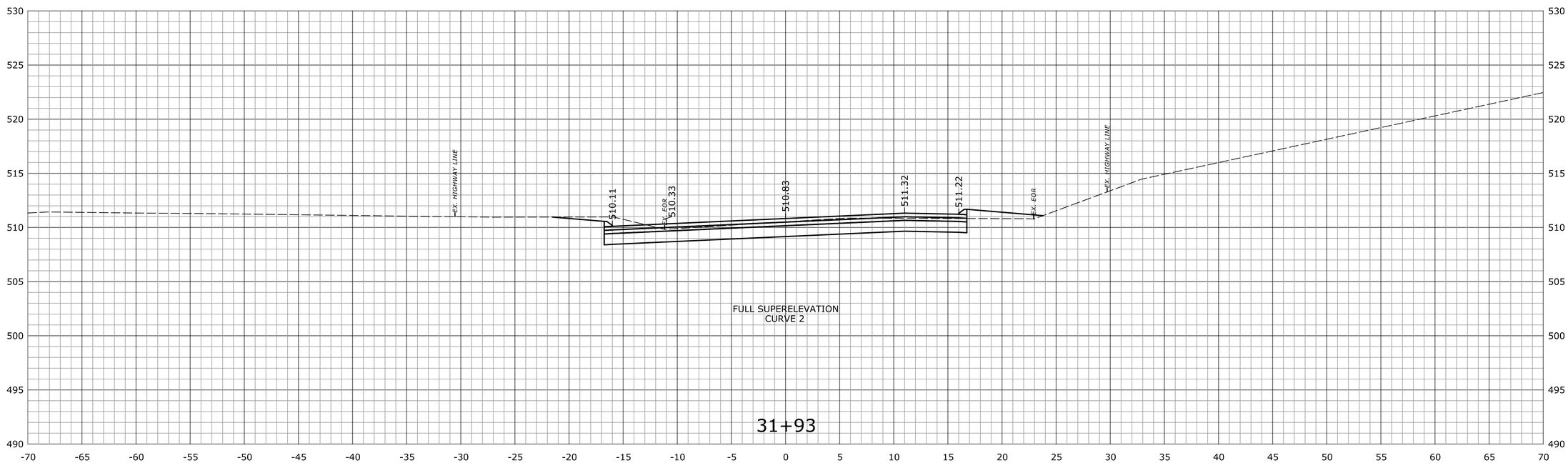
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-14

SHEET NO.
03.62

STA.31+93 TO STA.32+00





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

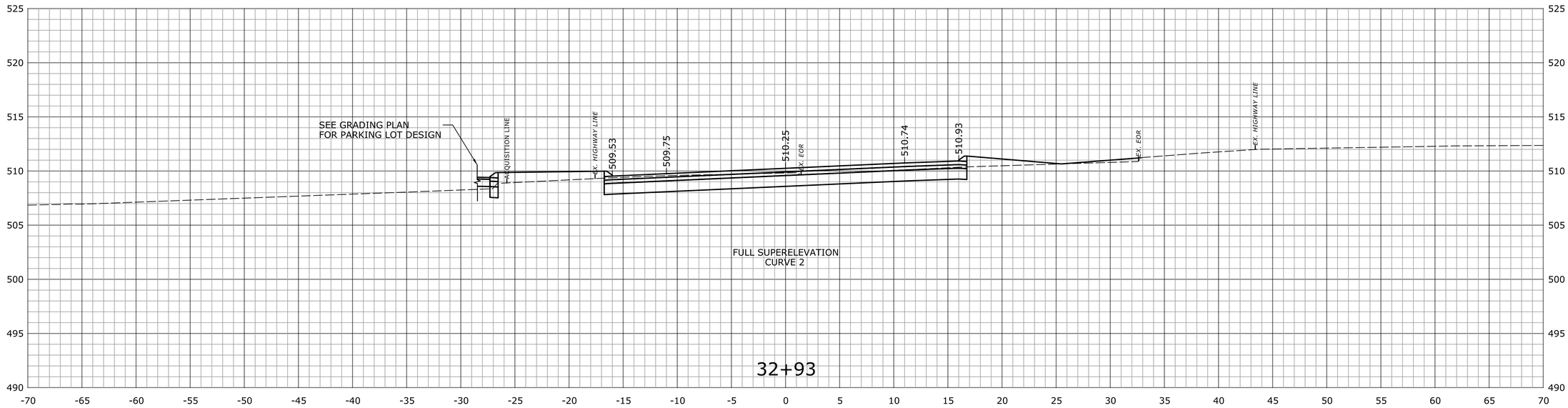
PROJECT NO. 0134-0147

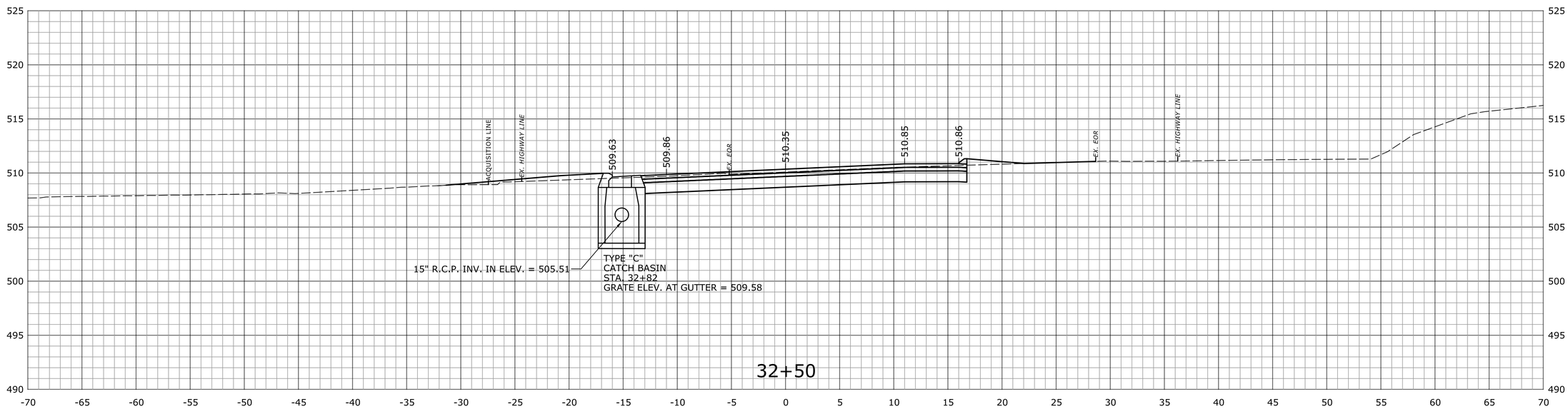
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-15

SHEET NO.
03.63

STA.32+50 TO STA.32+93





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROTUE 319

TOWN OF STAFFORD

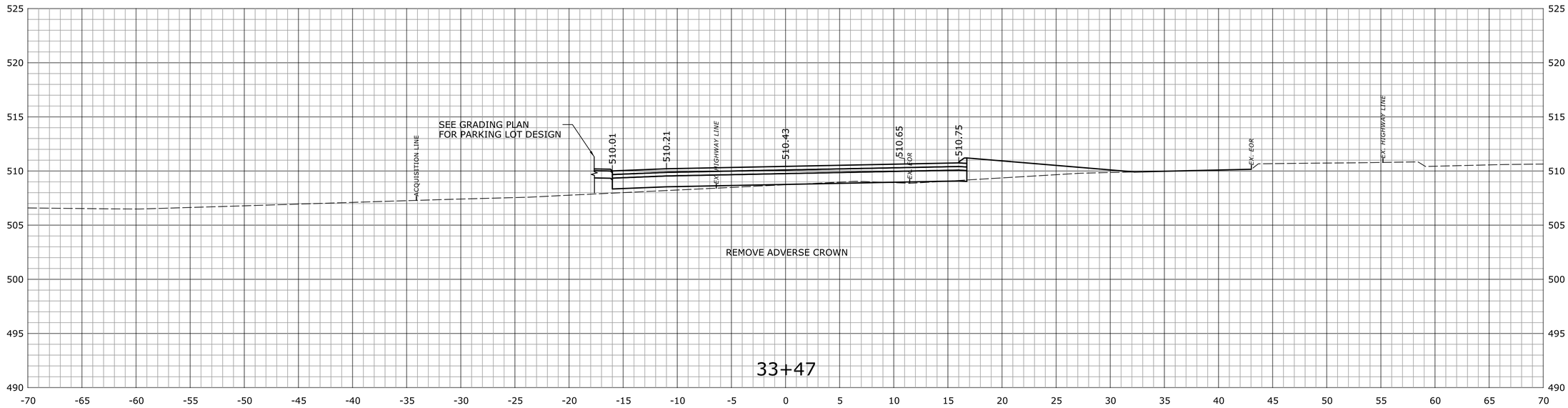
PROJECT NO. 0134-0147

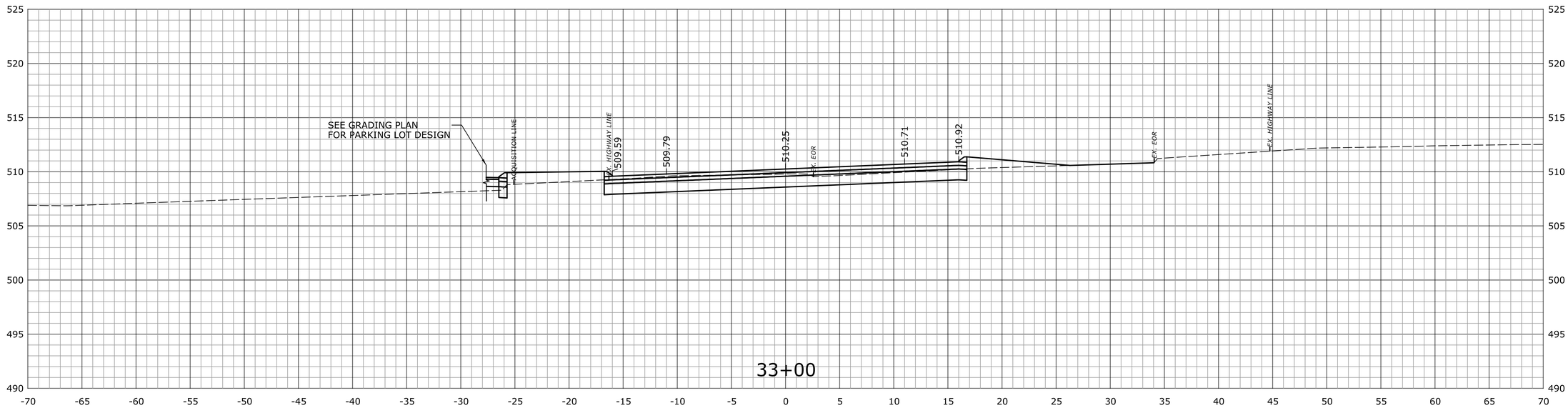
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-16

SHEET NO.
03.64

STA.33+00 TO STA.33+47





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

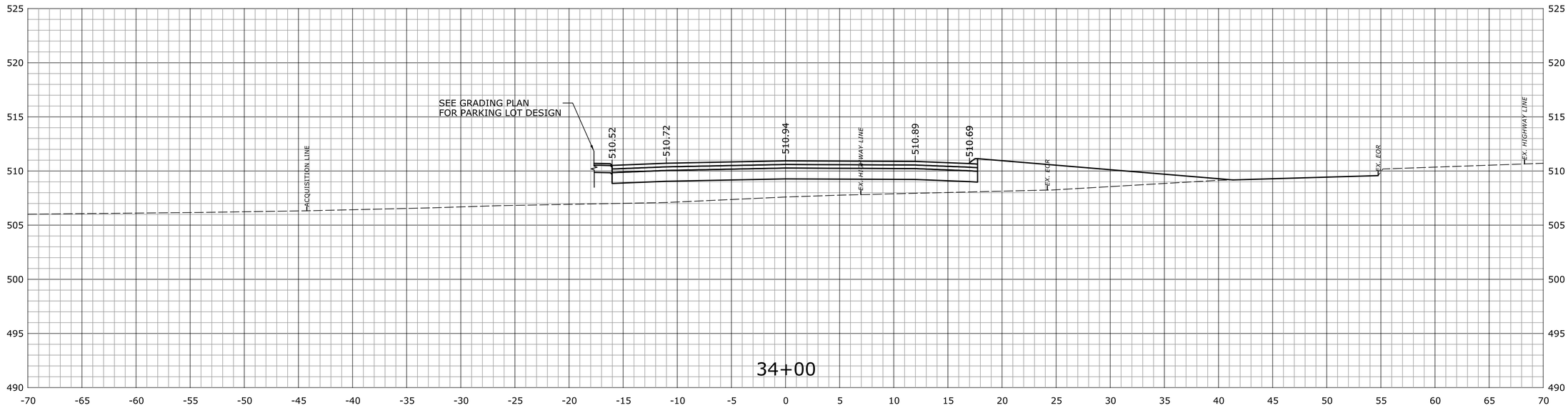
PROJECT NO. 0134-0147

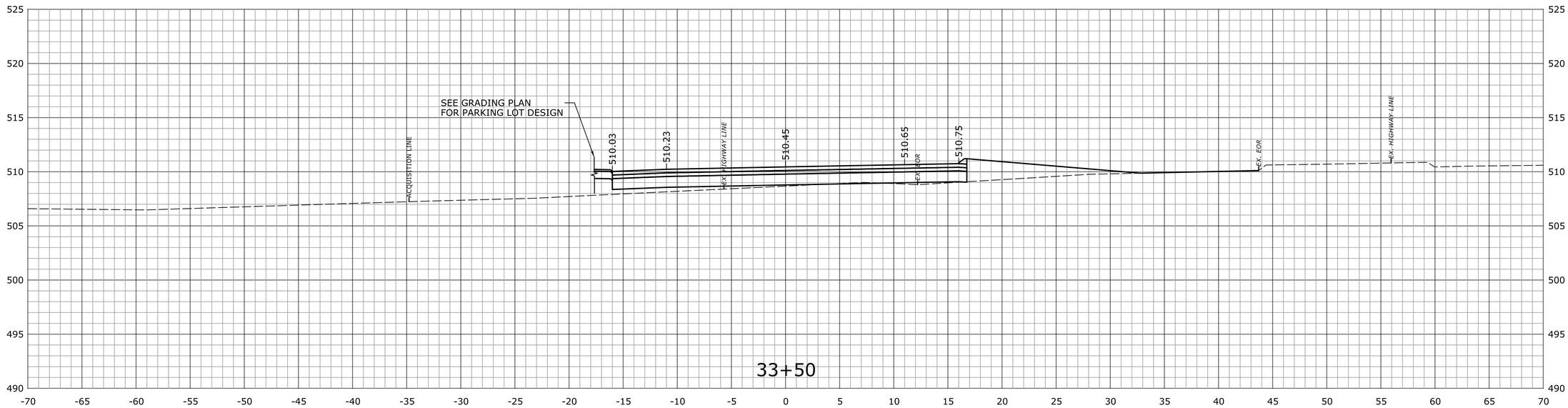
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-17

SHEET NO.
03.65

STA.33+50 TO STA.34+00





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

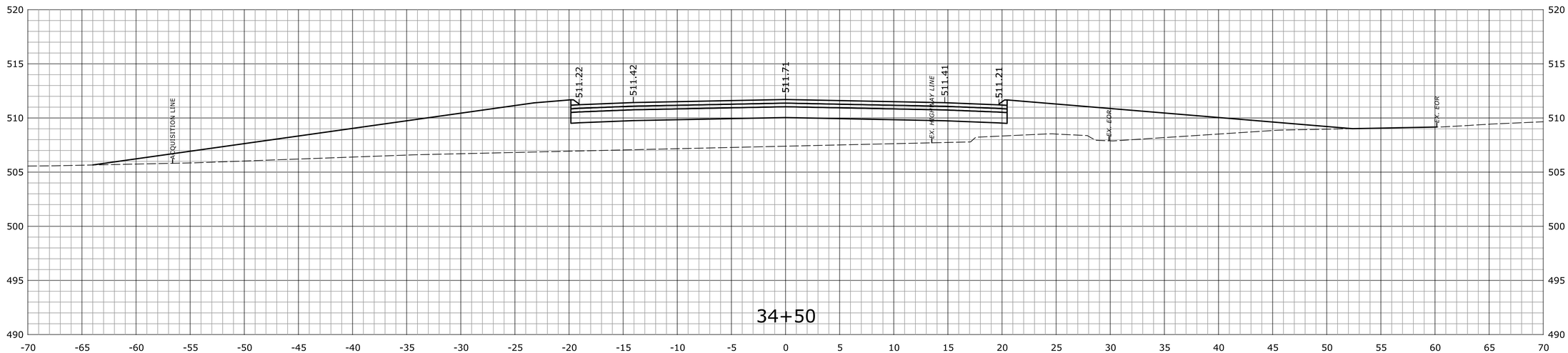
PROJECT NO. 0134-0147

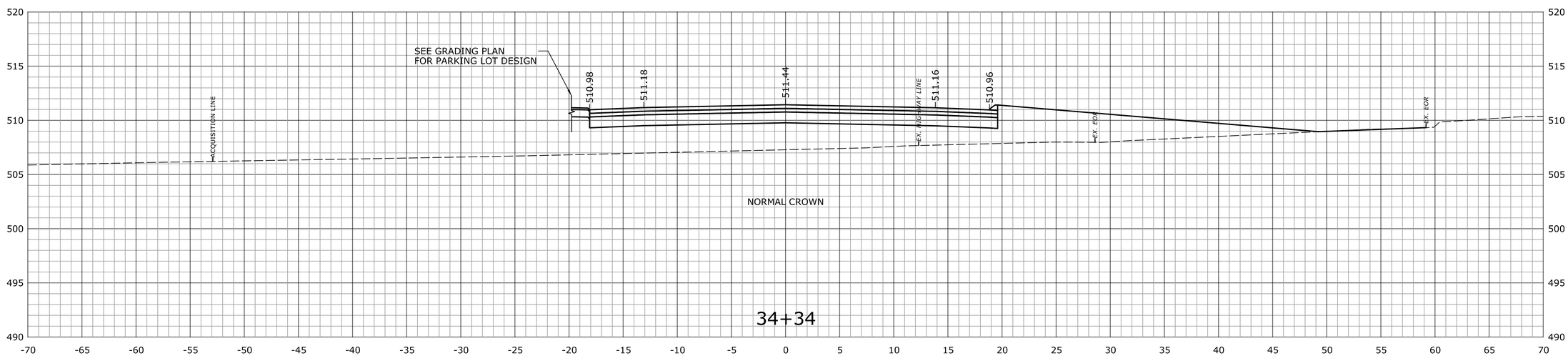
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-18

SHEET NO.
03.66

STA.34+34 TO STA.34+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

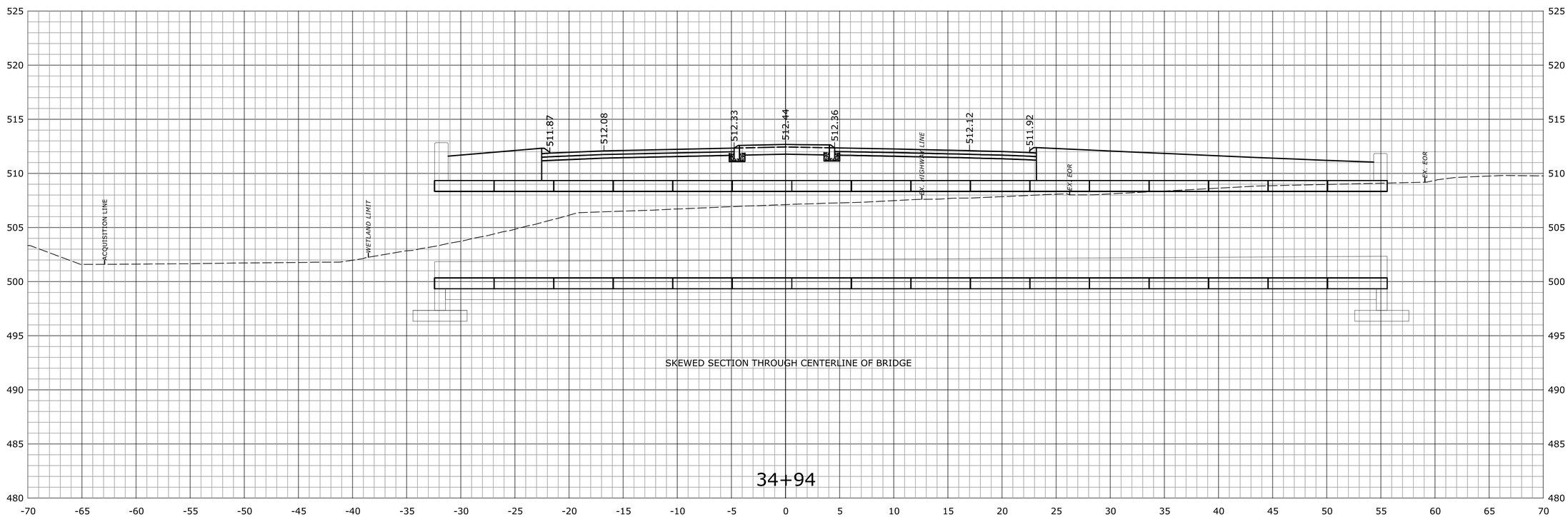
PROJECT NO. 0134-0147

DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-19

SHEET NO.
03.67

STA.34+94 TO STA.34+94



STRUCTURE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO STRUCTURE PLANS.

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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-	-	-

0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

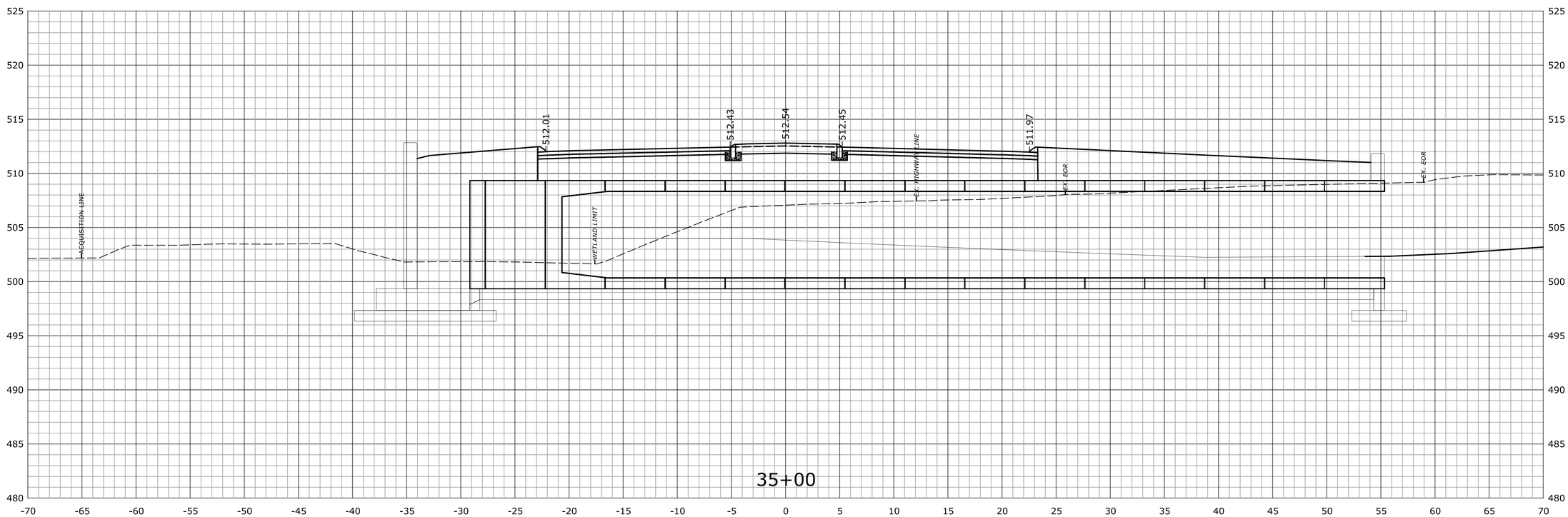
PROJECT NO. 0134-0147

DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-20

SHEET NO.
03.68

STA.35+00 TO STA.35+00



STRUCTURE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO STRUCTURE PLANS.

DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoadS_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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-	-	-

0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

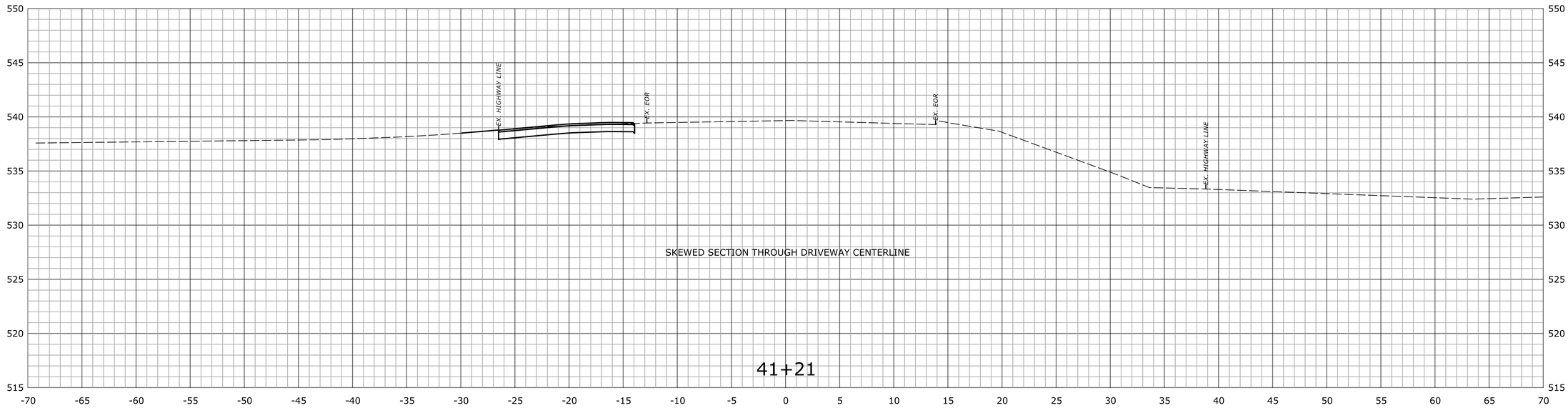
PROJECT NO. 0134-0147

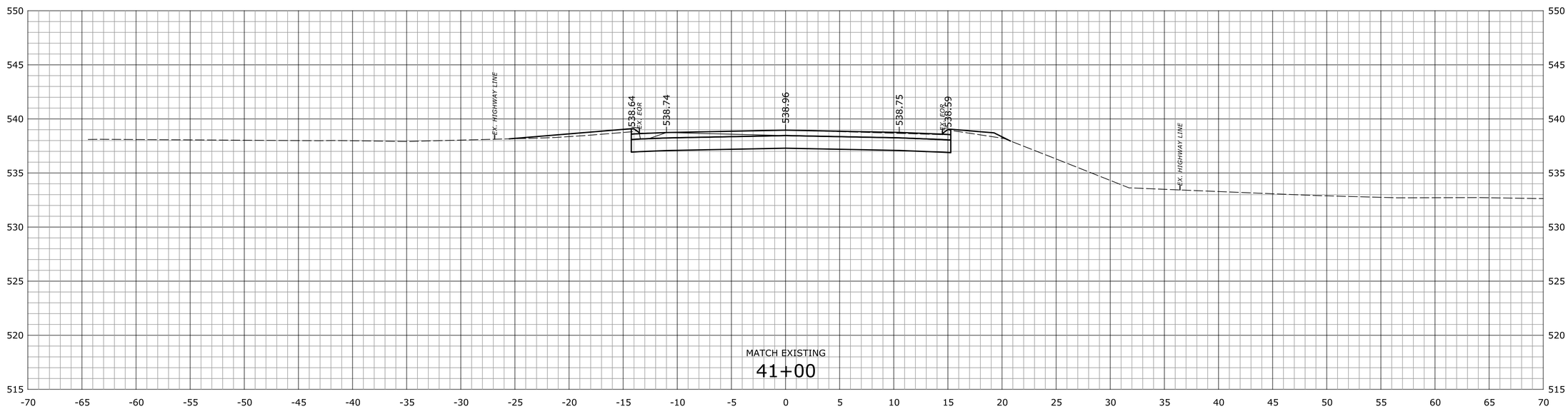
DRAWING TITLE:
CROSS SECTIONS
ROUTE 190 EAST

DRAWING NO.
XSC-21

SHEET NO.
03.69

STA.41+00 TO STA.41+21





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

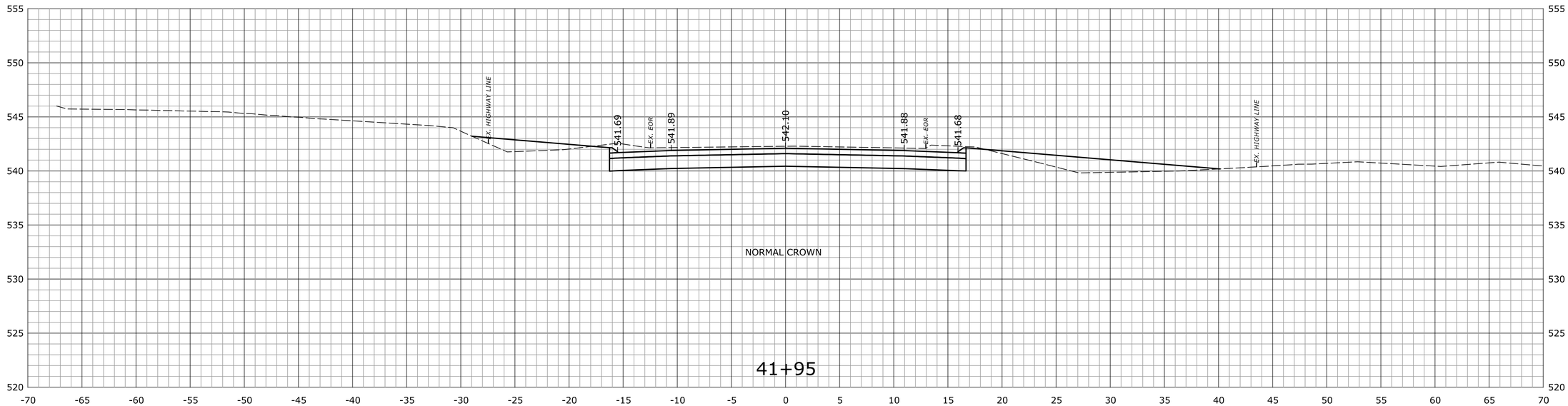
PROJECT NO. 0134-0147

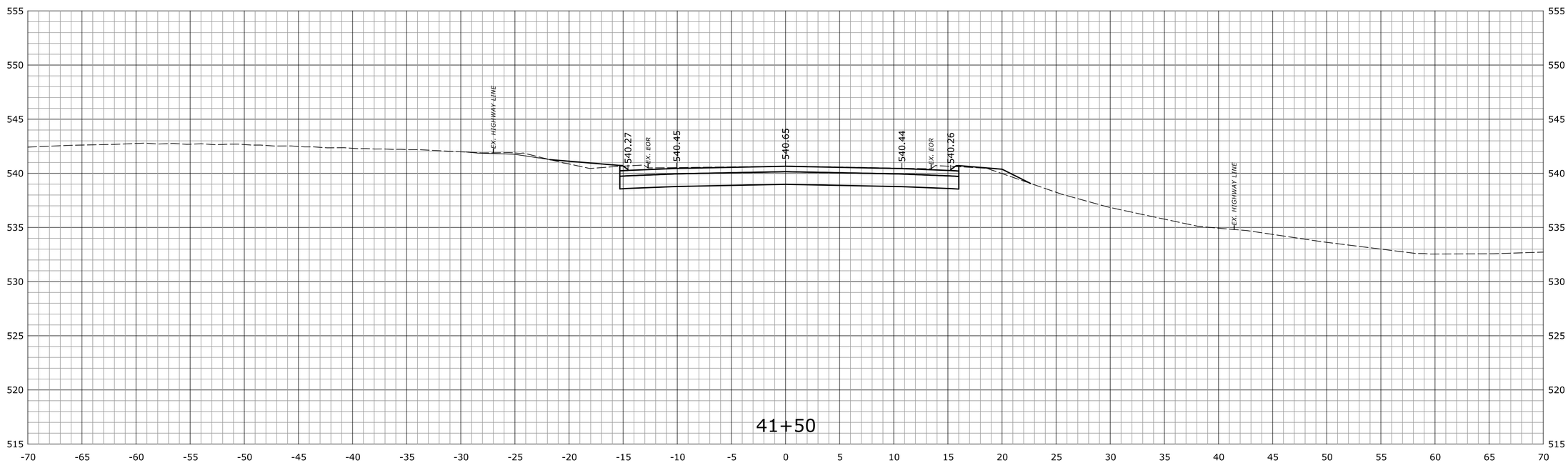
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-22

SHEET NO.
03.70

STA.41+50 TO STA.41+95





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

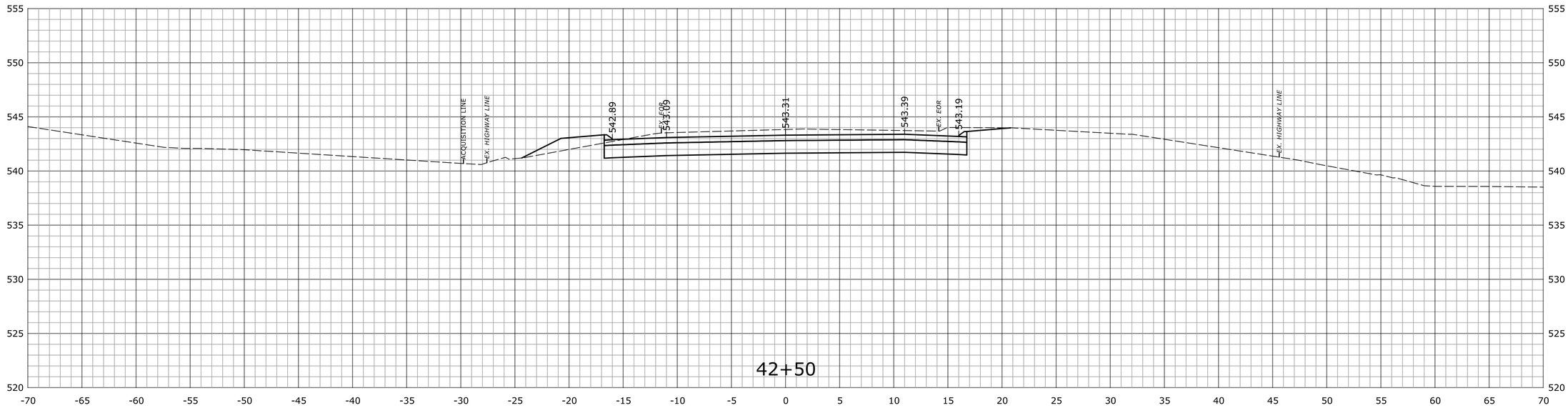
PROJECT NO. 0134-0147

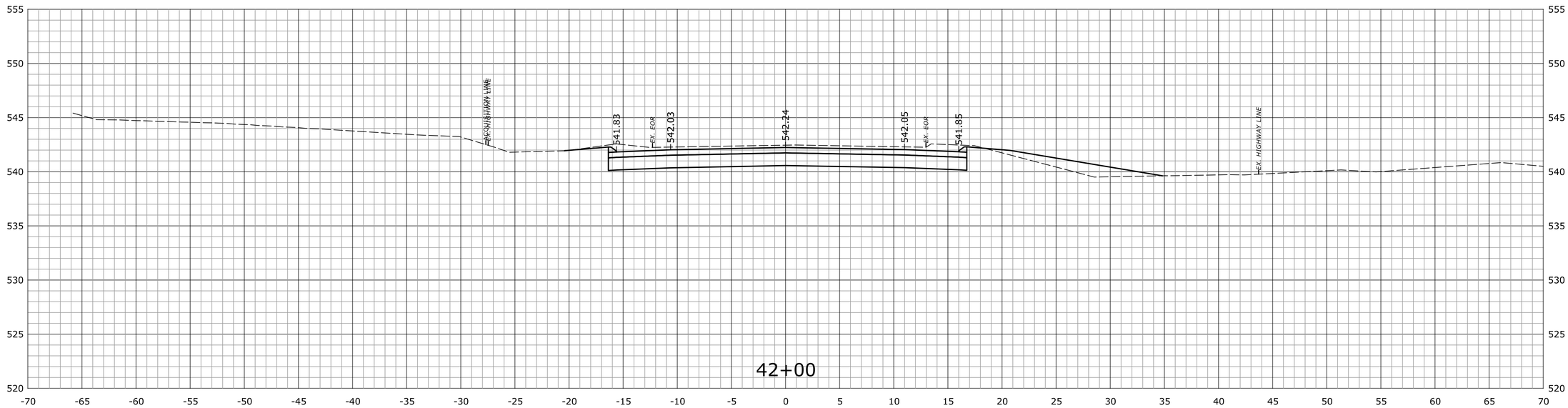
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-23

SHEET NO.
03.71

STA.42+00 TO STA.42+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

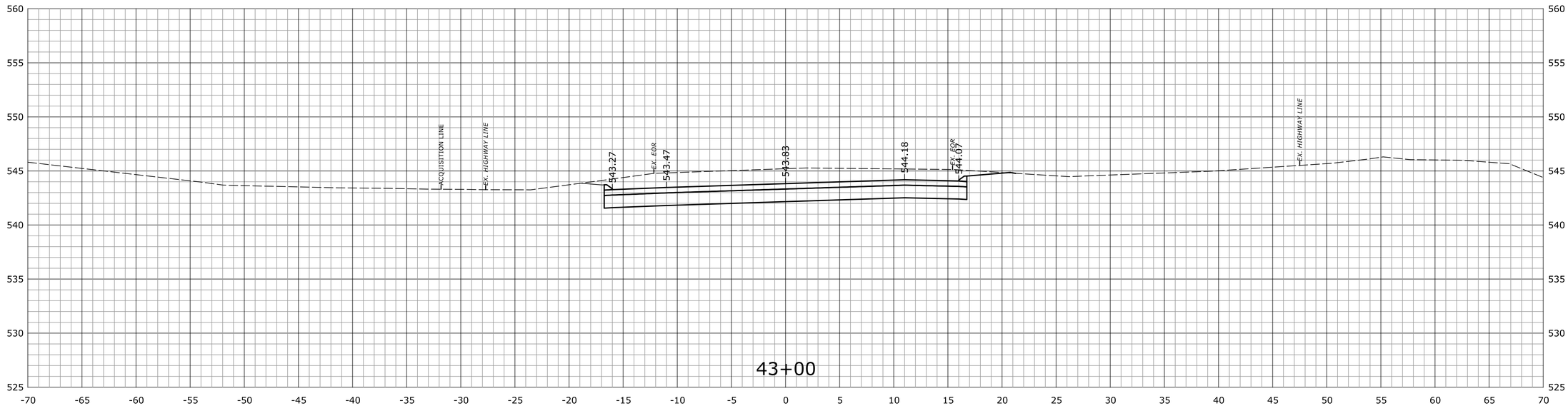
PROJECT NO. 0134-0147

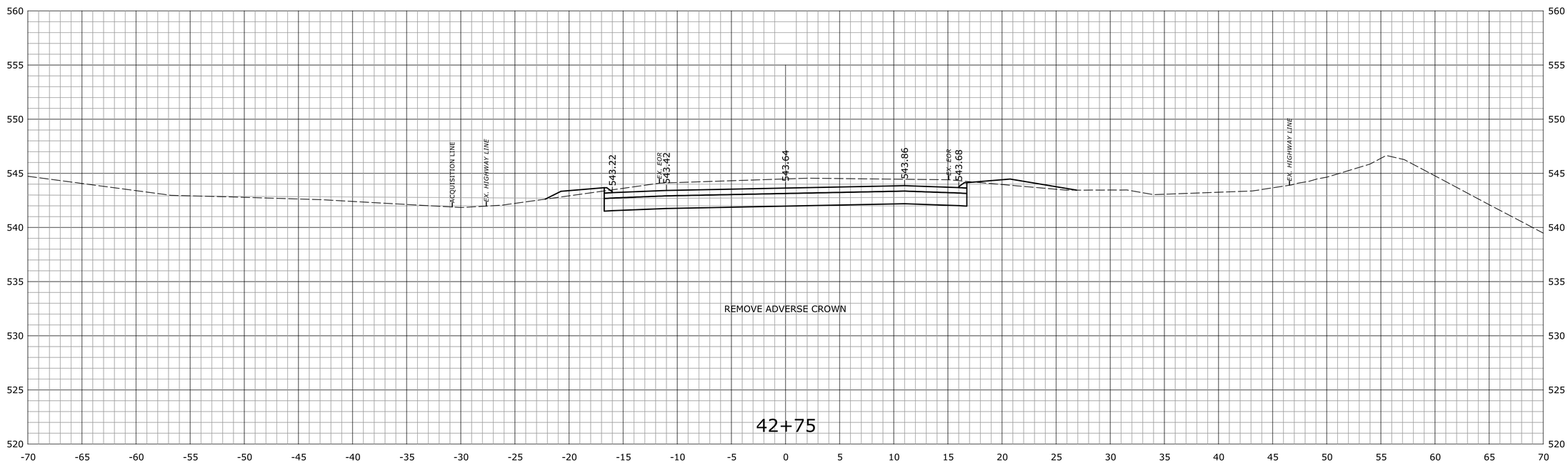
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-24

SHEET NO.
03.72

STA.42+75 TO STA.43+00





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

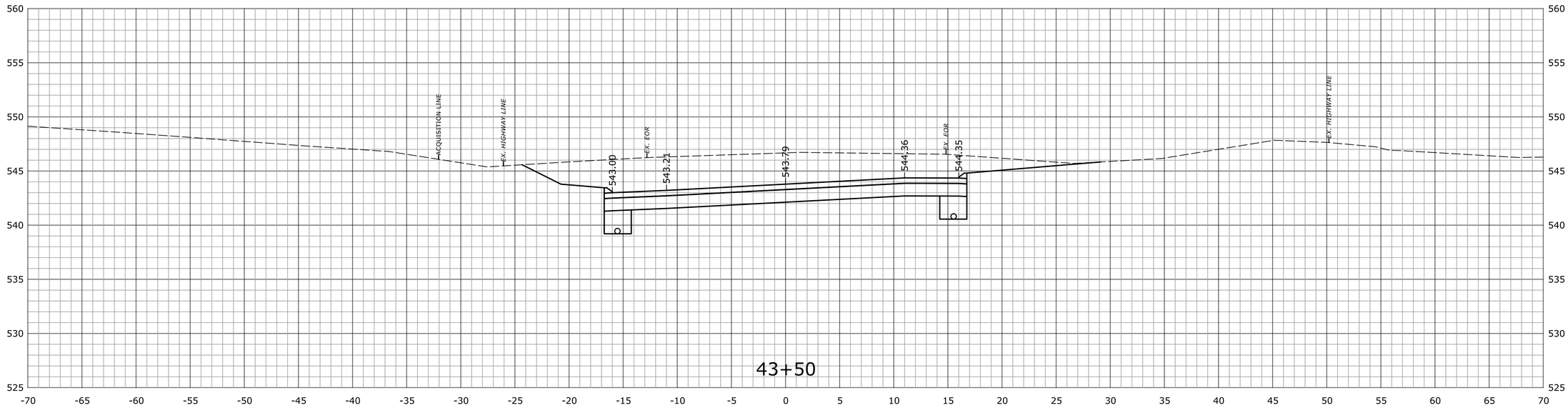
PROJECT NO. 0134-0147

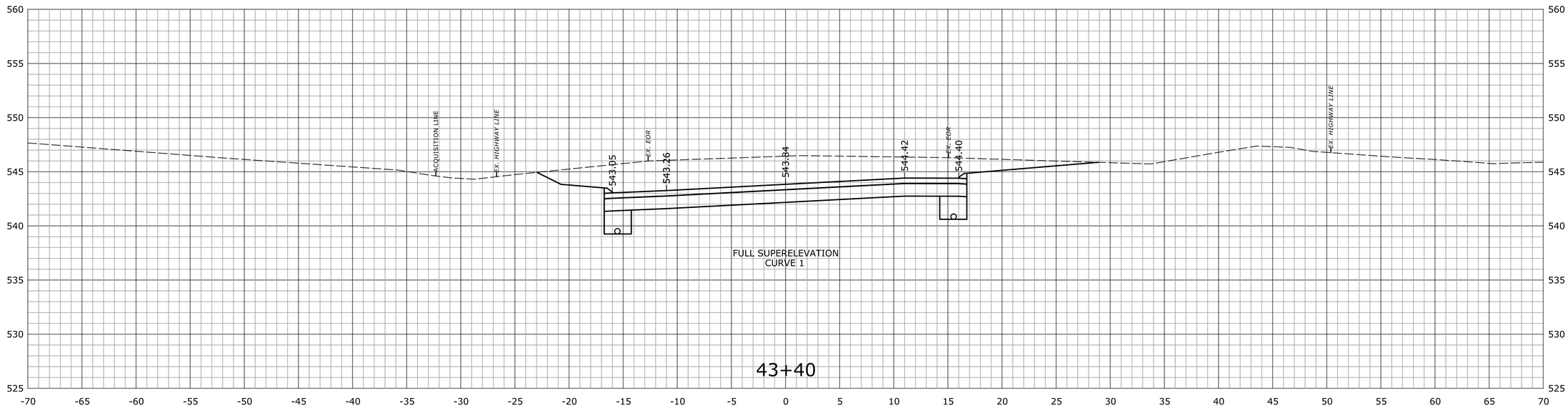
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-25

SHEET NO.
03.73

STA.43+40 TO STA.43+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Varf

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

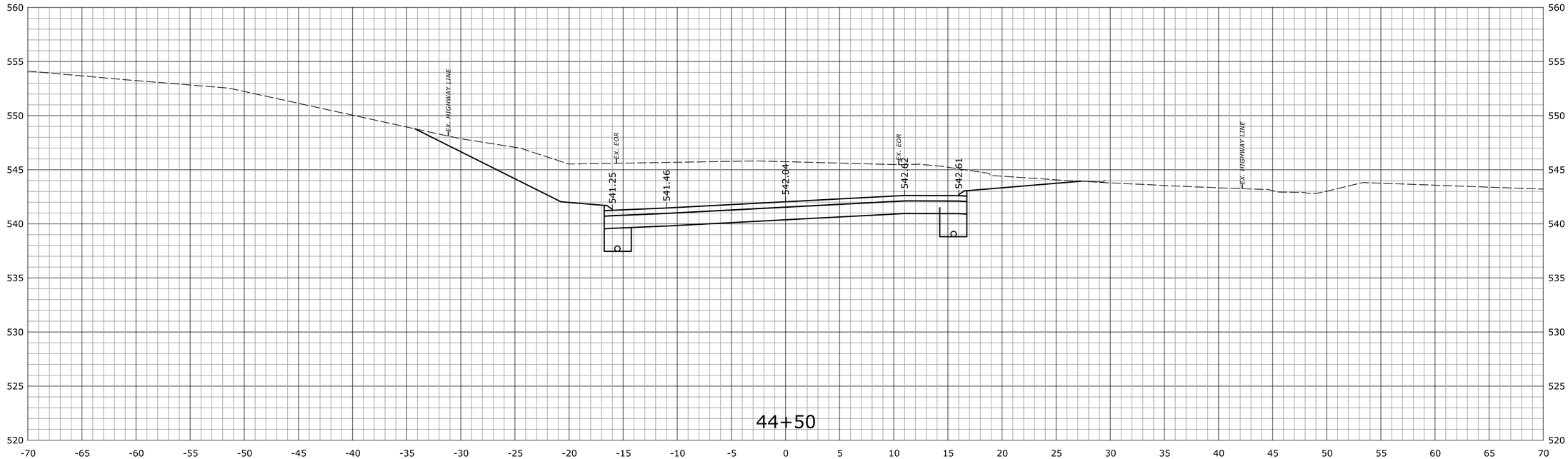
PROJECT NO. 0134-0147

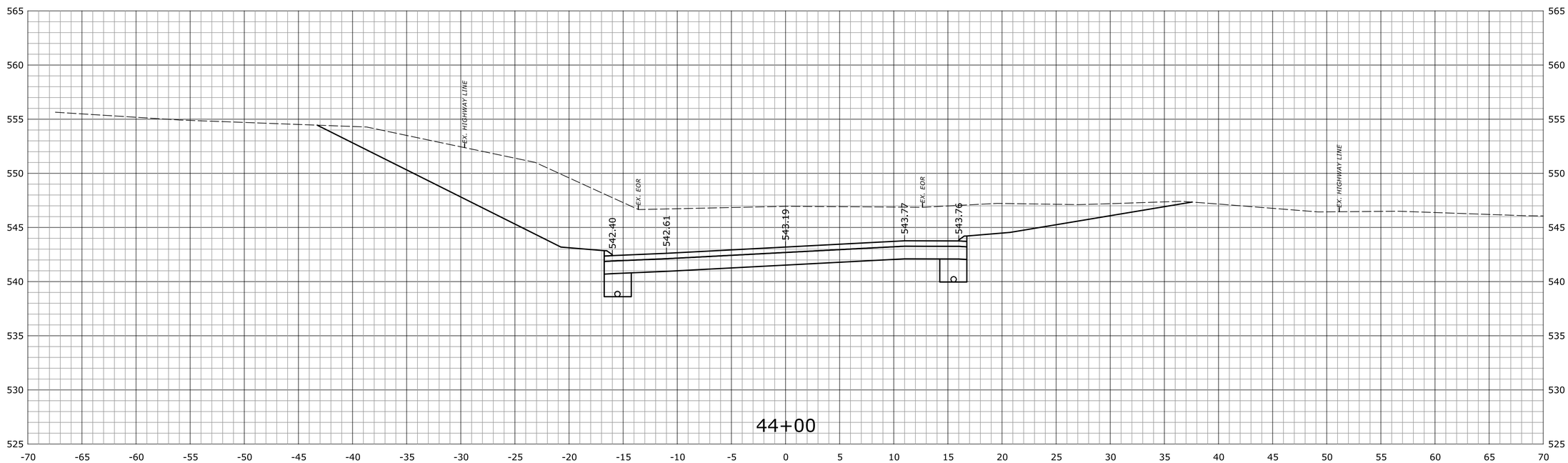
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-26

SHEET NO.
03.74

STA.44+00 TO STA.44+50





DESIGNER/DRAFTER:JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

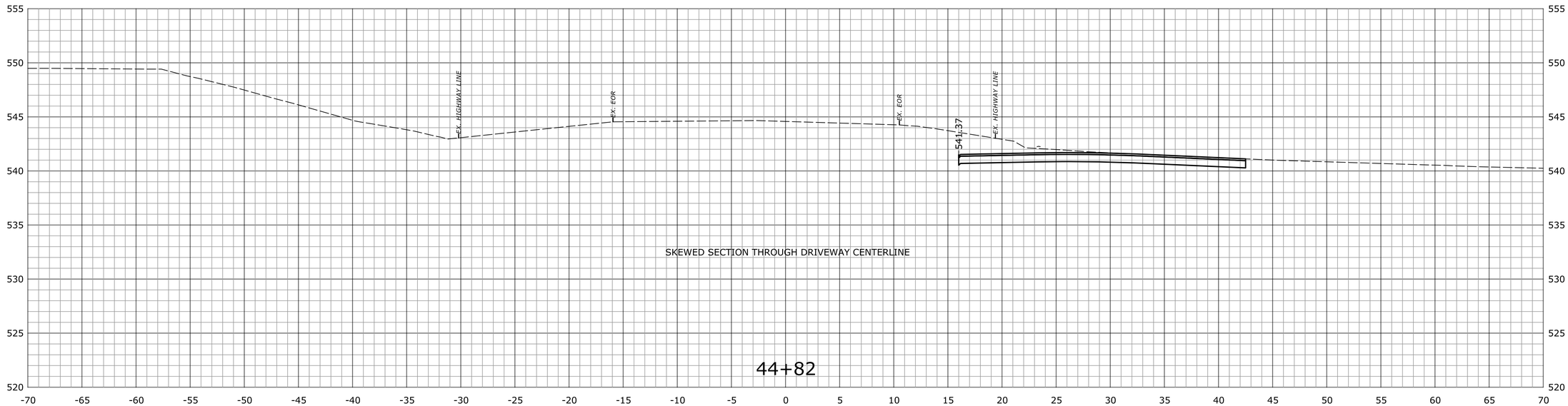
PROJECT NO. 0134-0147

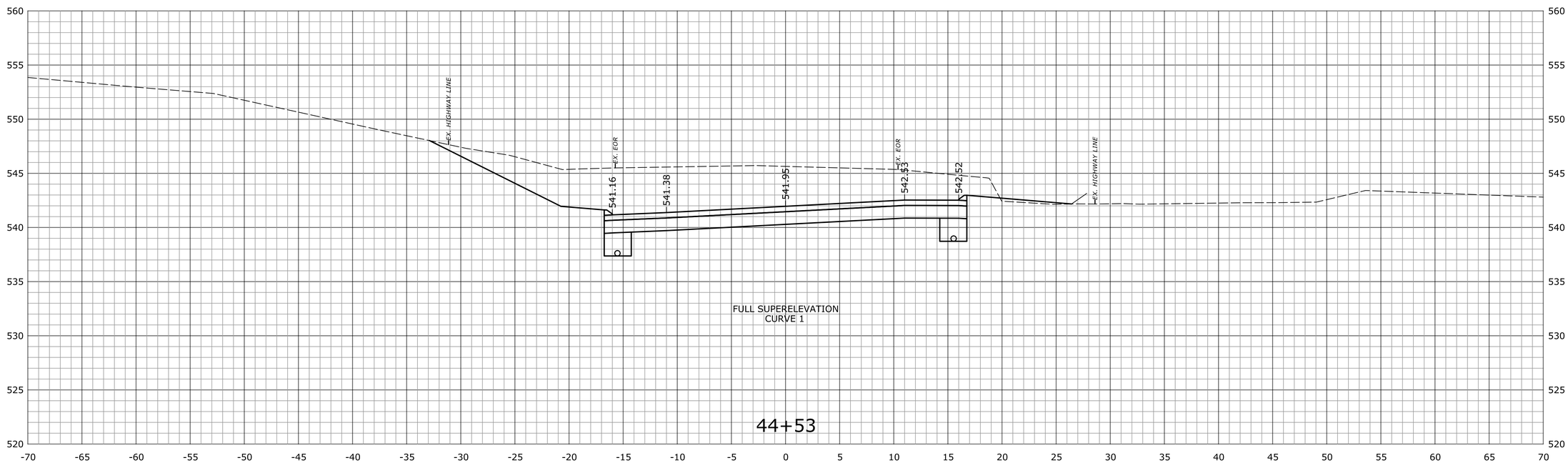
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-27

SHEET NO.
03.75

STA.44+53 TO STA.44+82





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

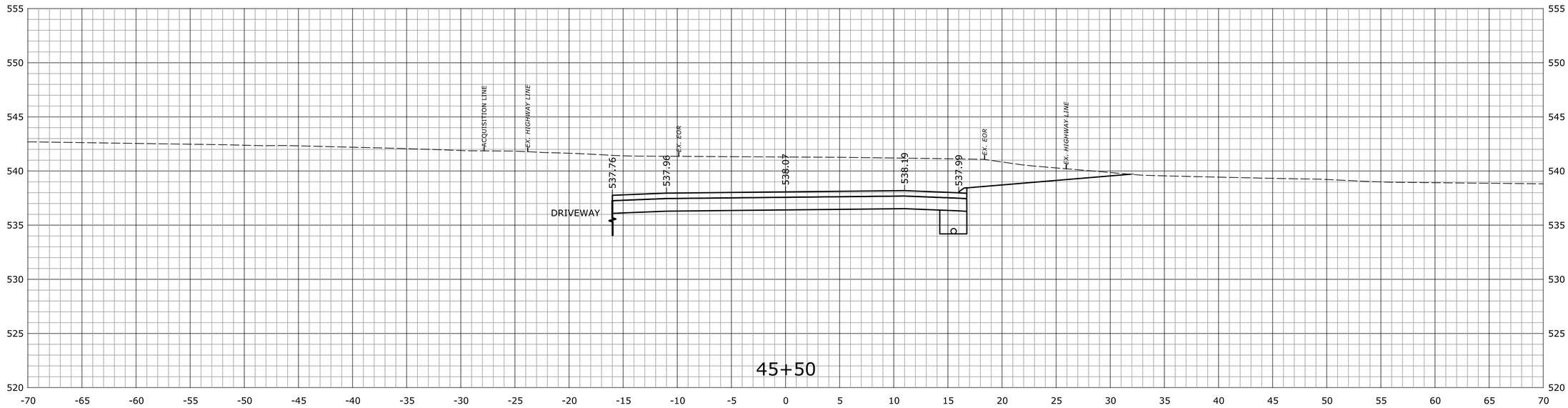
PROJECT NO. 0134-0147

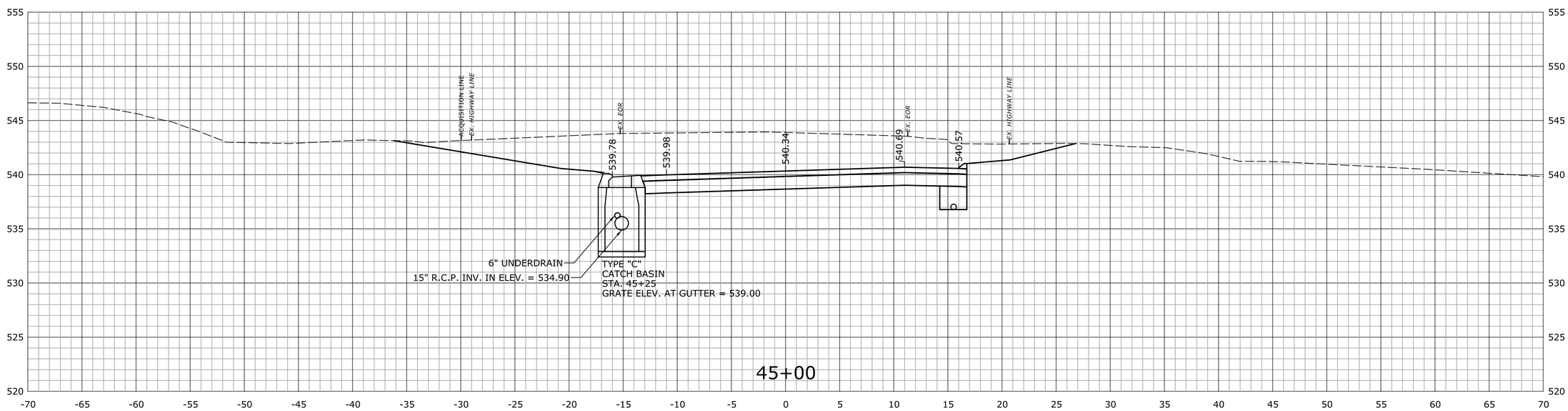
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-28

SHEET NO.
03.76

STA.45+00 TO STA.45+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

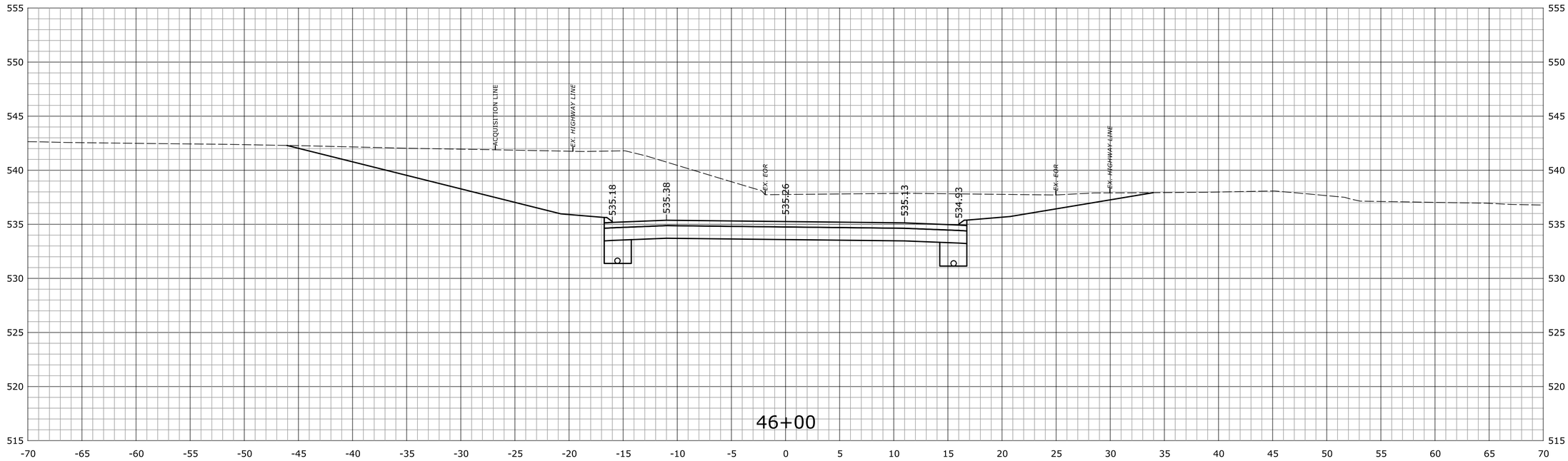
PROJECT NO. 0134-0147

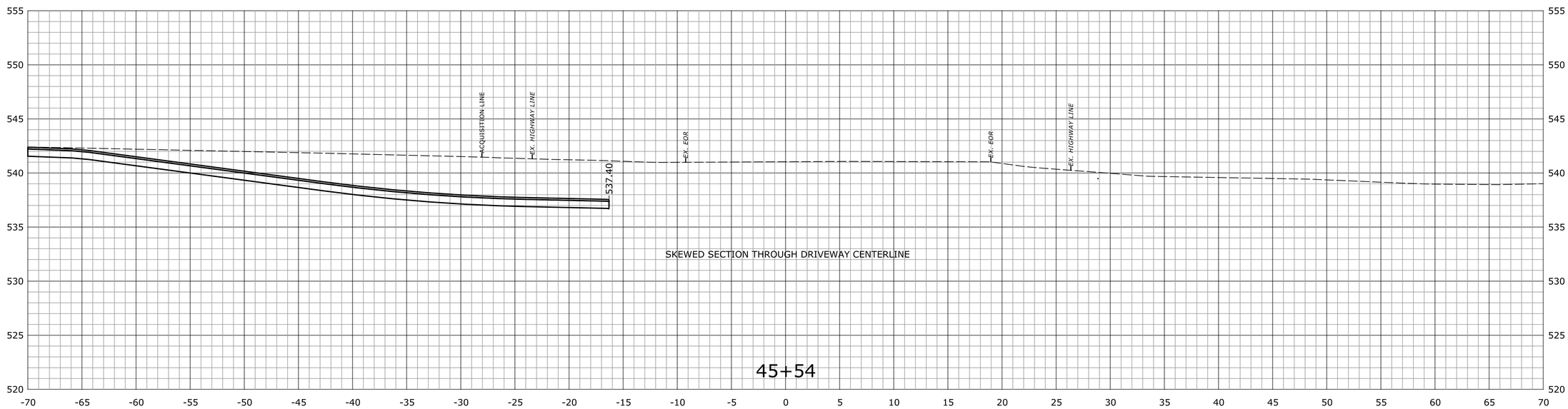
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-29

SHEET NO.
03.77

STA.45+54 TO STA.46+00





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

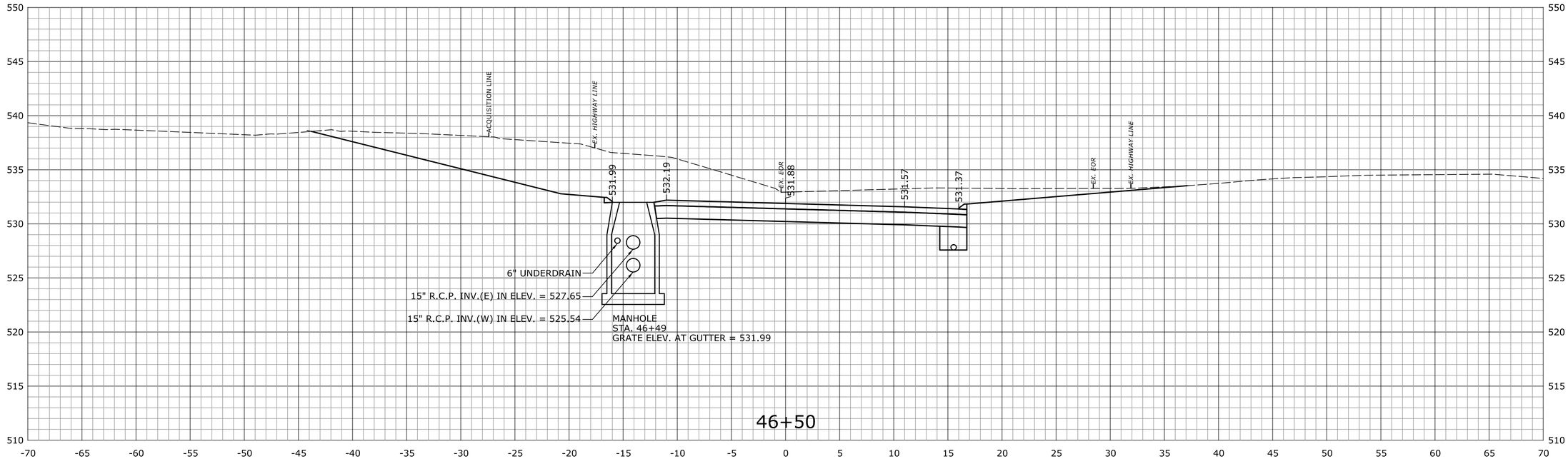
PROJECT NO. 0134-0147

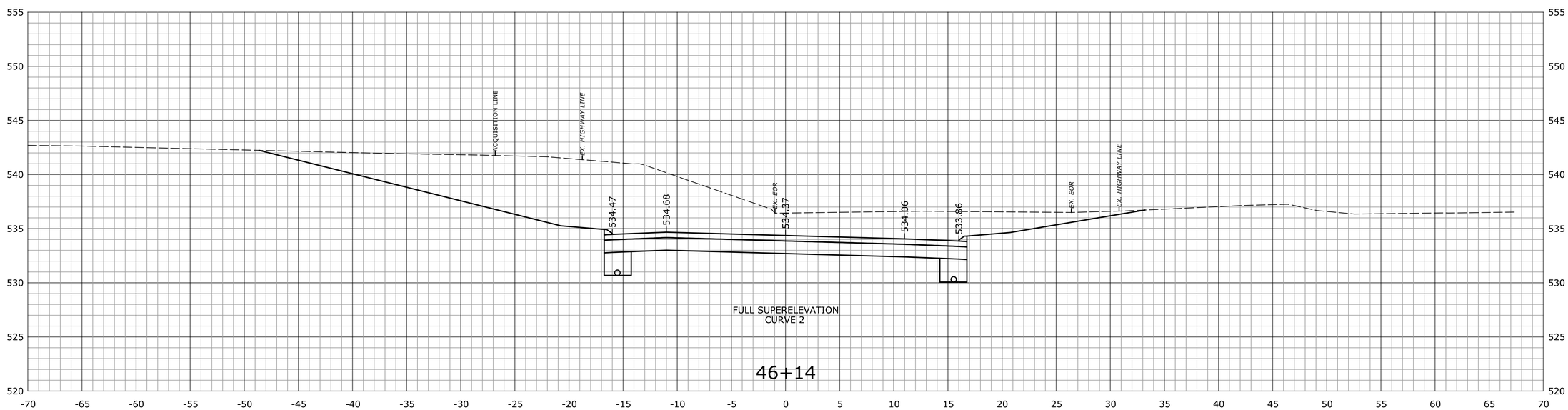
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-30

SHEET NO.
03.78

STA.46+39 TO STA.46+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

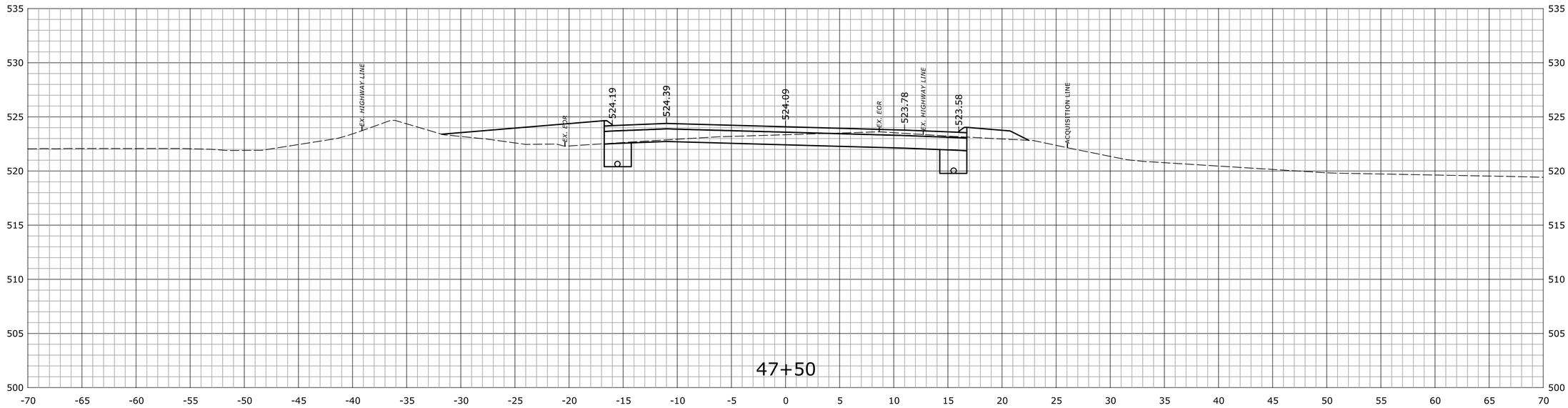
PROJECT NO. 0134-0147

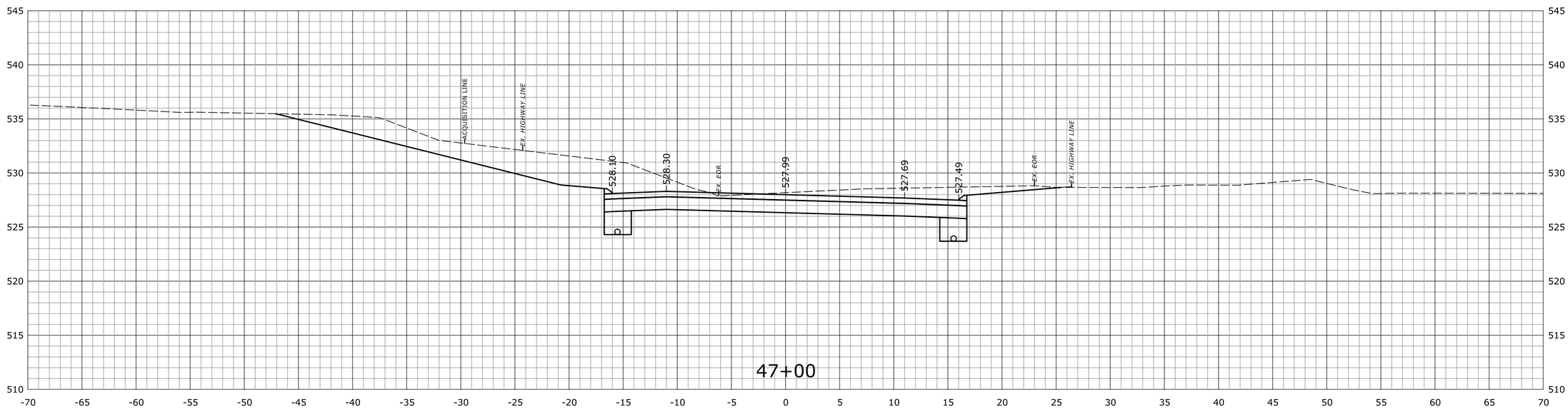
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-31

SHEET NO.
03.79

STA.47+00 TO STA.47+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

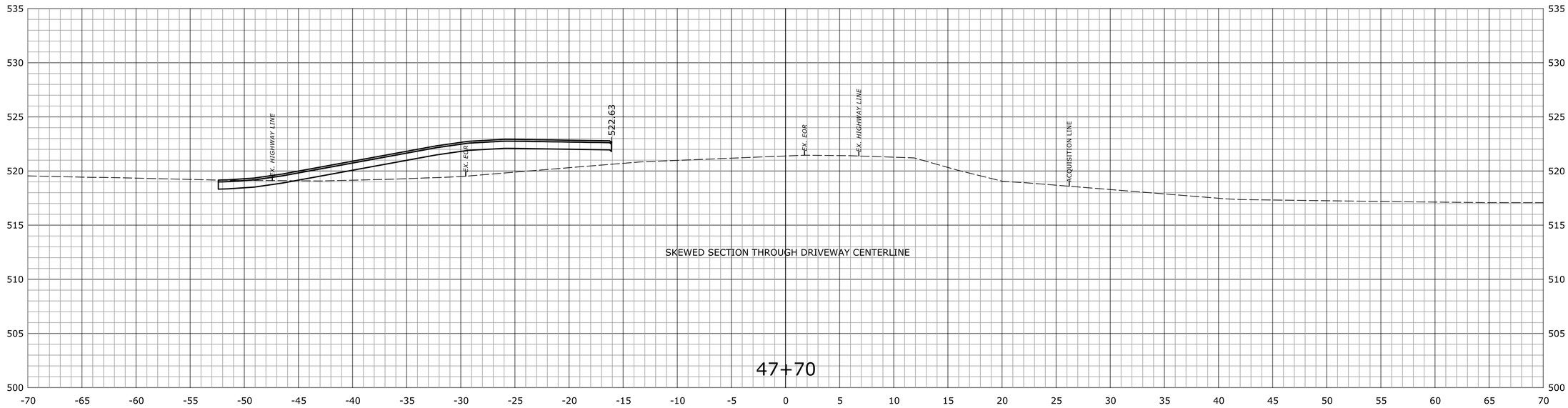
PROJECT NO. 0134-0147

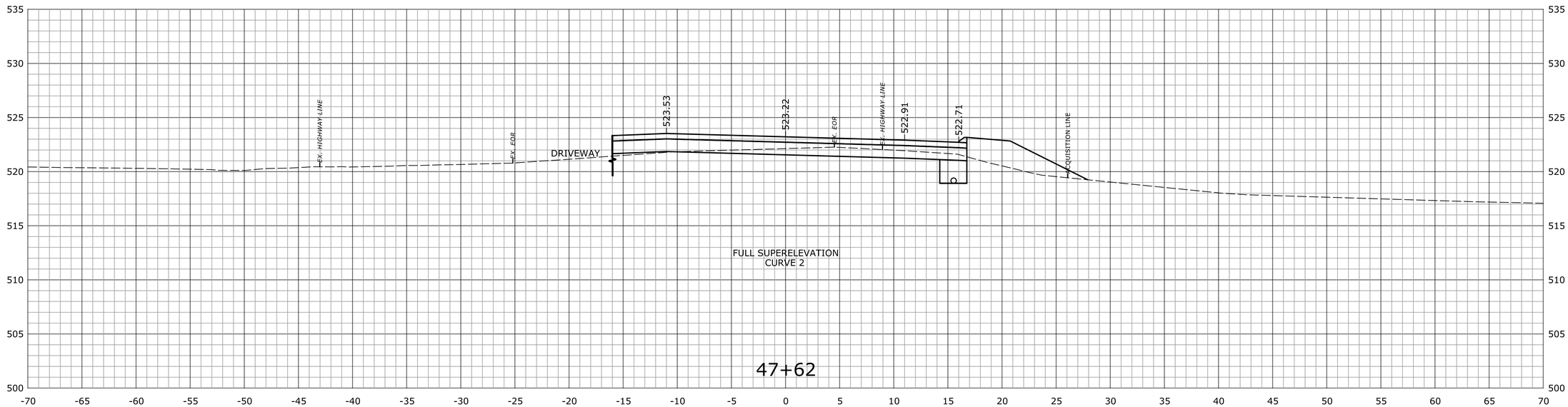
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-32

SHEET NO.
03.80

STA.47+62 TO STA.47+70





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

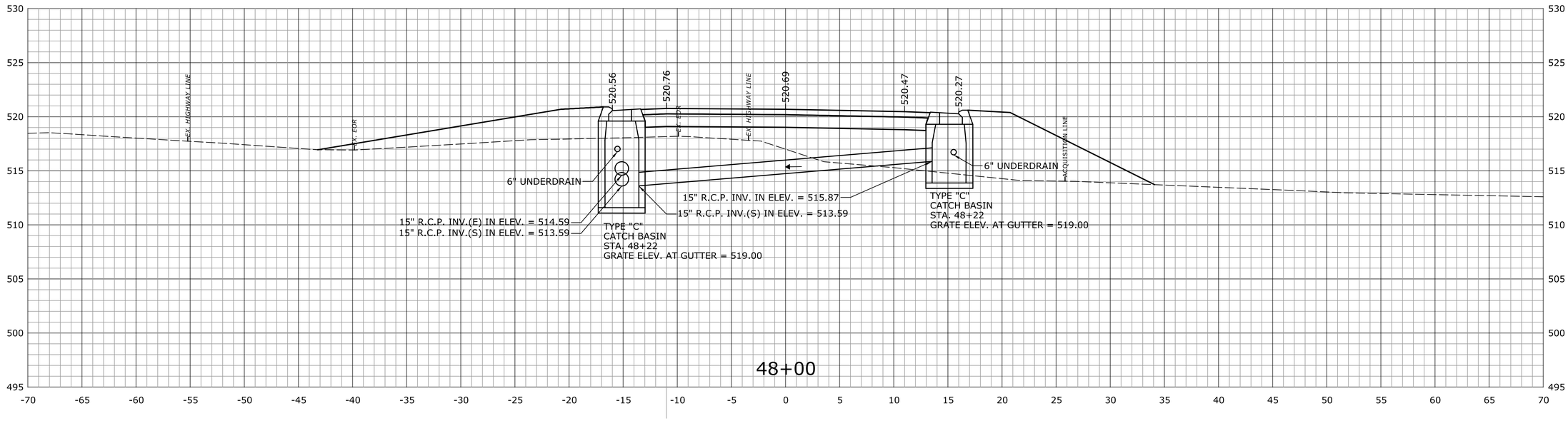
PROJECT NO. 0134-0147

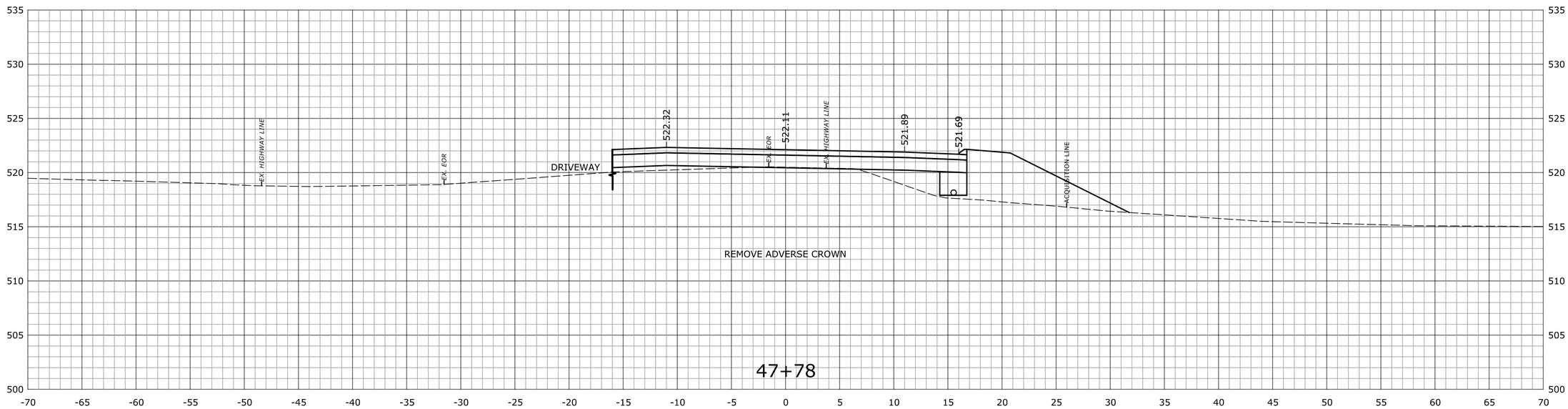
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-33

SHEET NO.
03.81

STA.47+78 TO STA.48+00





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
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REV.	DATE	REVISION DESCRIPTION
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-	-	-

0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

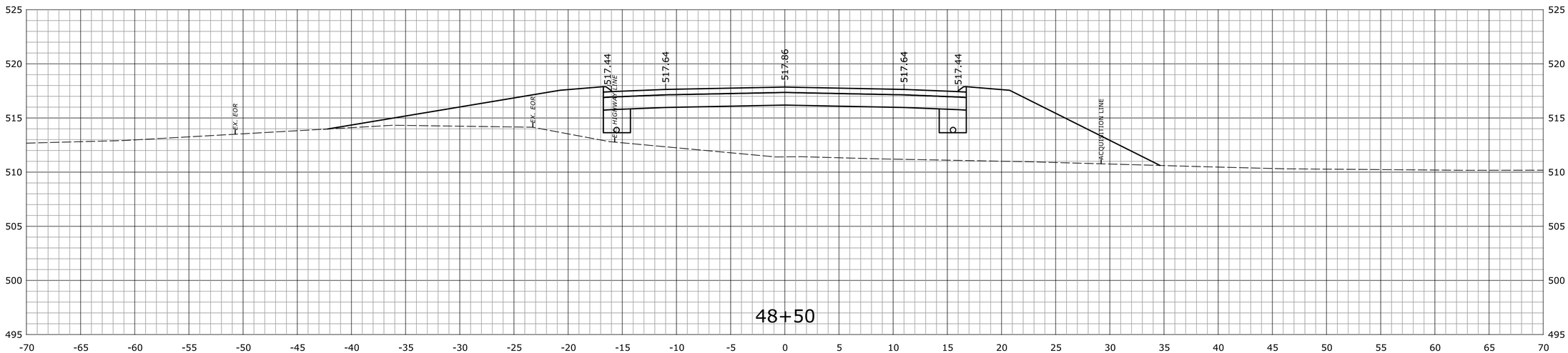
PROJECT NO. 0134-0147

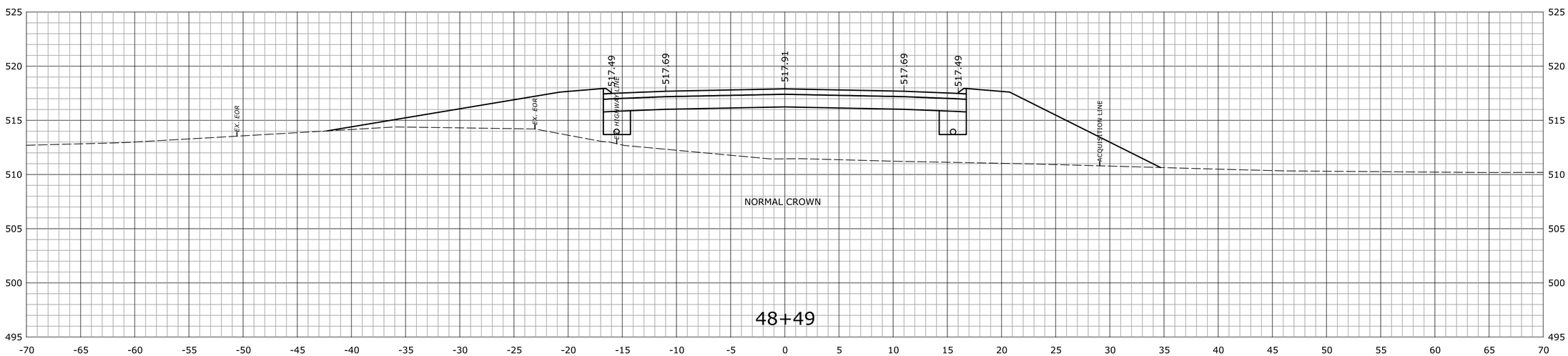
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-34

SHEET NO.
03.82

STA.48+49 TO STA.48+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

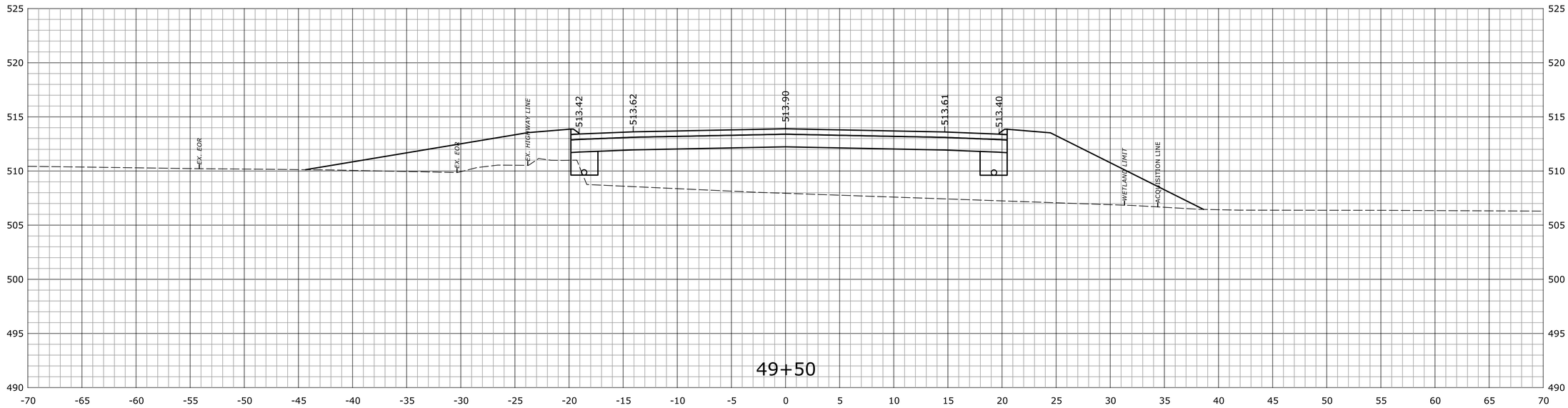
PROJECT NO. 0134-0147

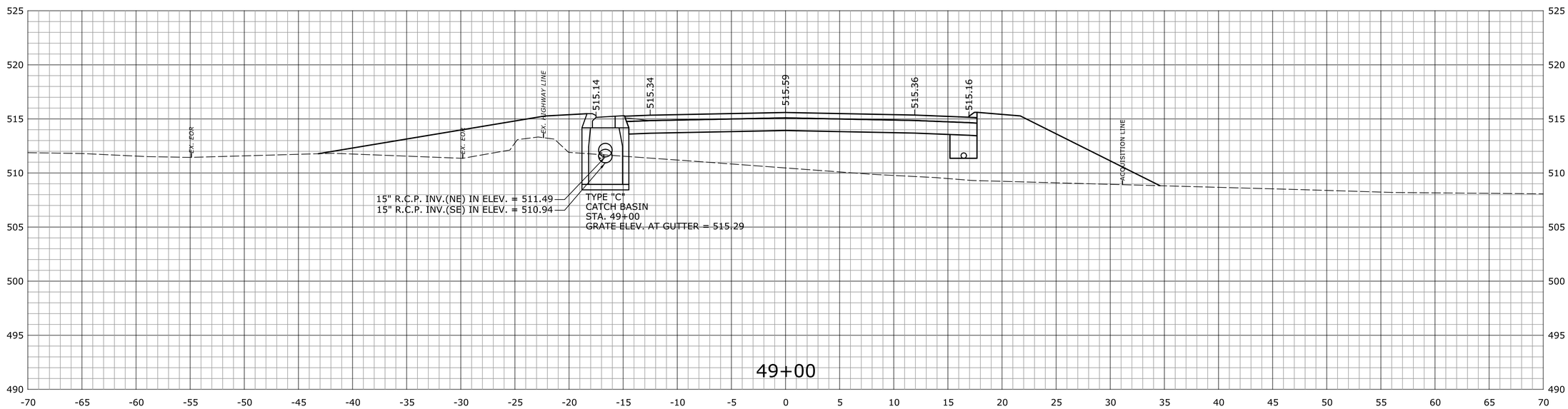
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-35

SHEET NO.
03.83

STA.49+00 TO STA.49+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

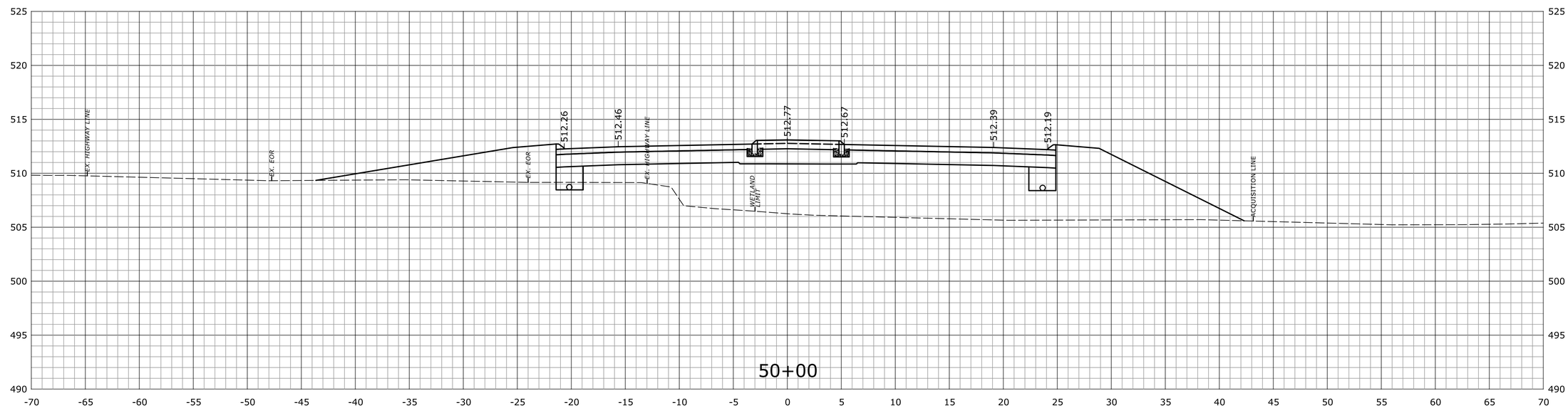
PROJECT NO. 0134-0147

DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-36

SHEET NO.
03.84

STA.50+00 TO STA.50+00



DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\cdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

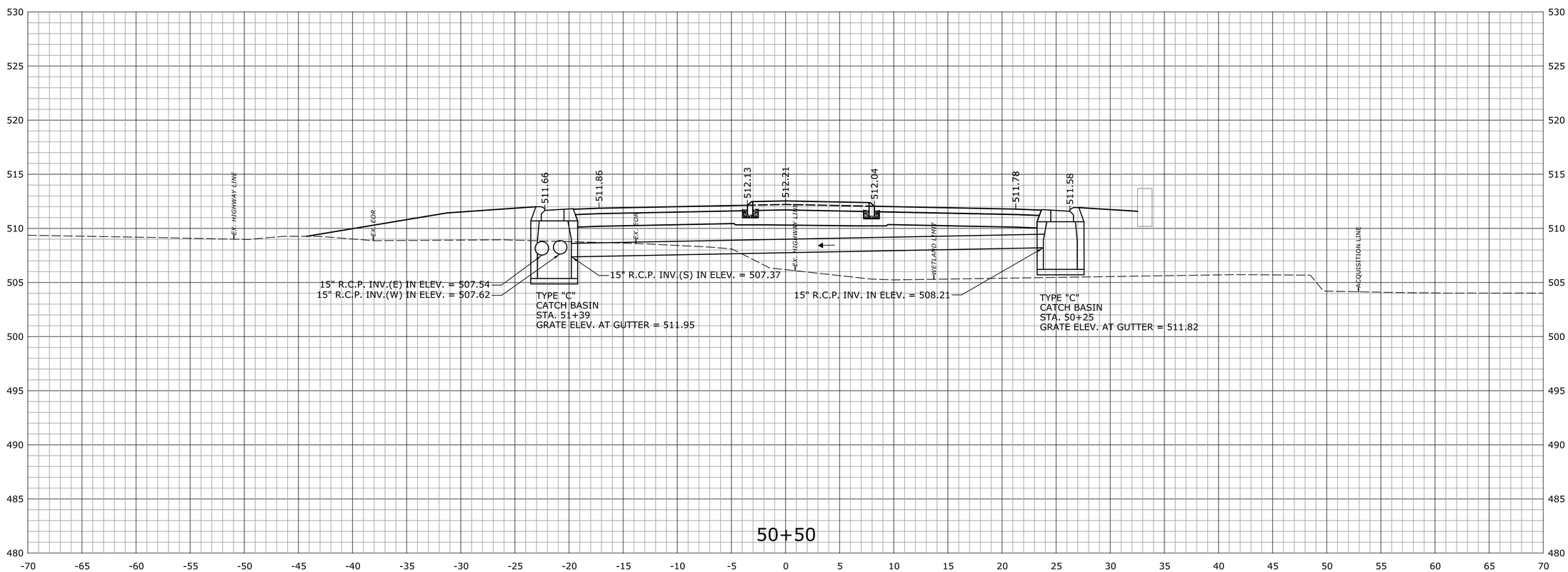
PROJECT NO. 0134-0147

DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-37

SHEET NO.
03.85

STA.50+50 TO STA.50+50



DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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-	-	-

HORIZONTAL SCALE 1"=5' (0, 5', 10')

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

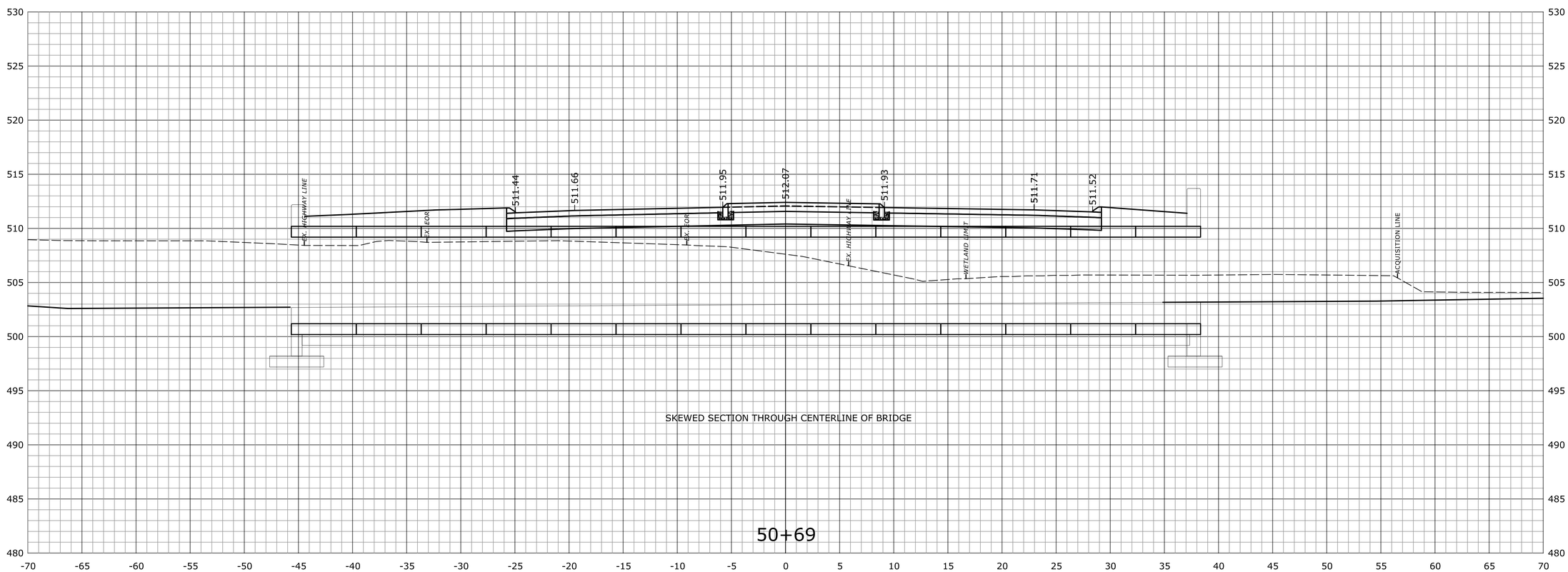
PROJECT NO. 0134-0147

DRAWING TITLE: CROSS SECTIONS ROUTE 319

DRAWING NO. XSC-38

SHEET NO. 03.86

STA.50+69 TO STA.50+69



DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Ford

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

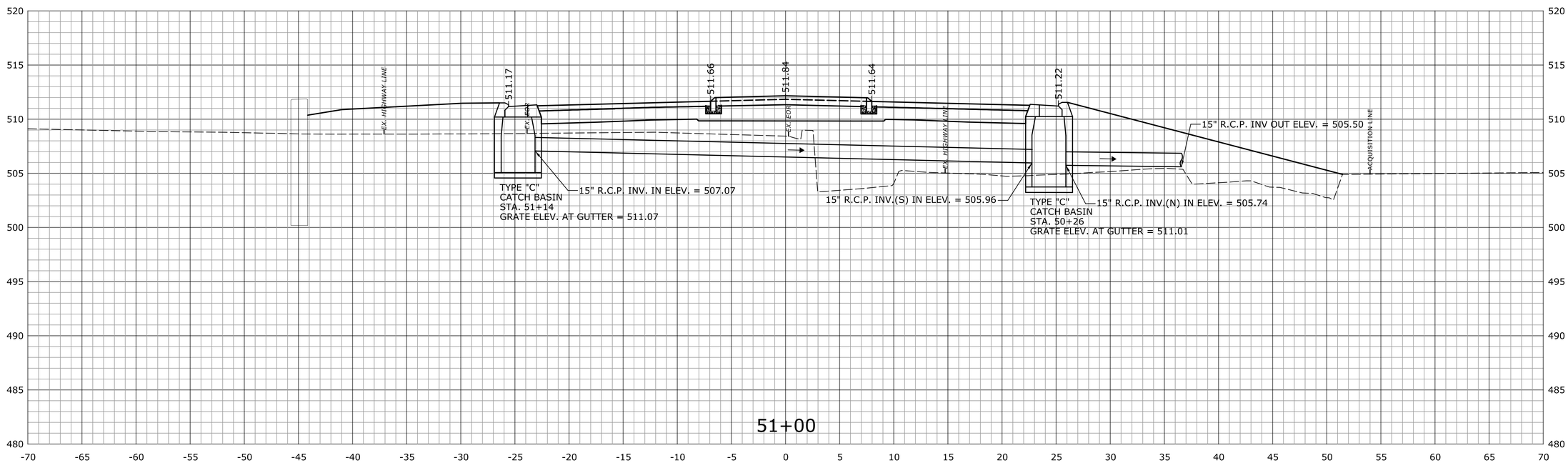
PROJECT NO. 0134-0147

DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-39

SHEET NO.
03.87

STA.51+00 TO STA.51+00



DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 8/16/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TWON OF STAFFORD

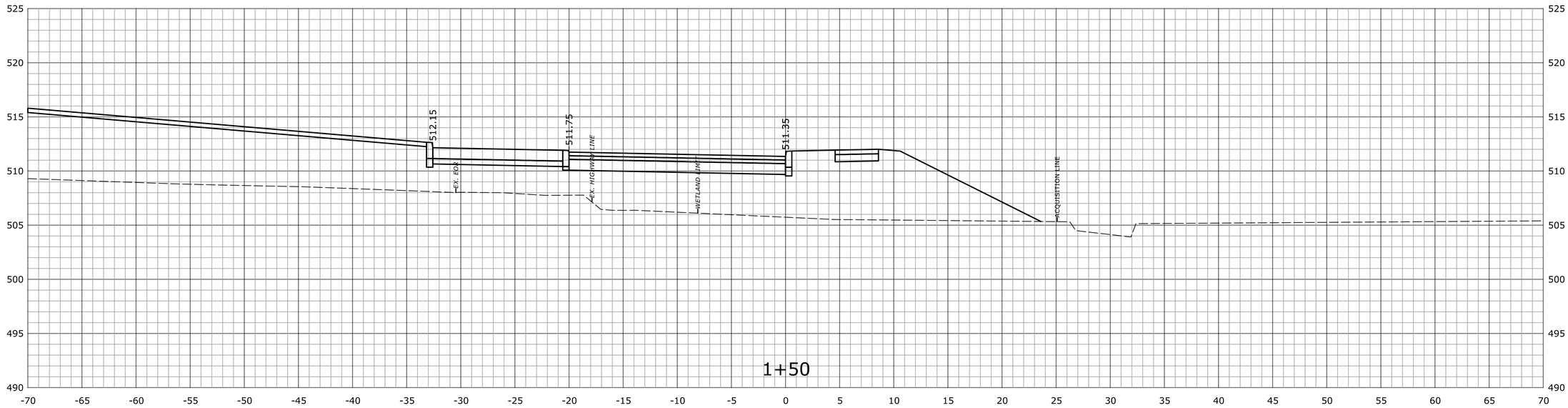
PROJECT NO. 0134-0147

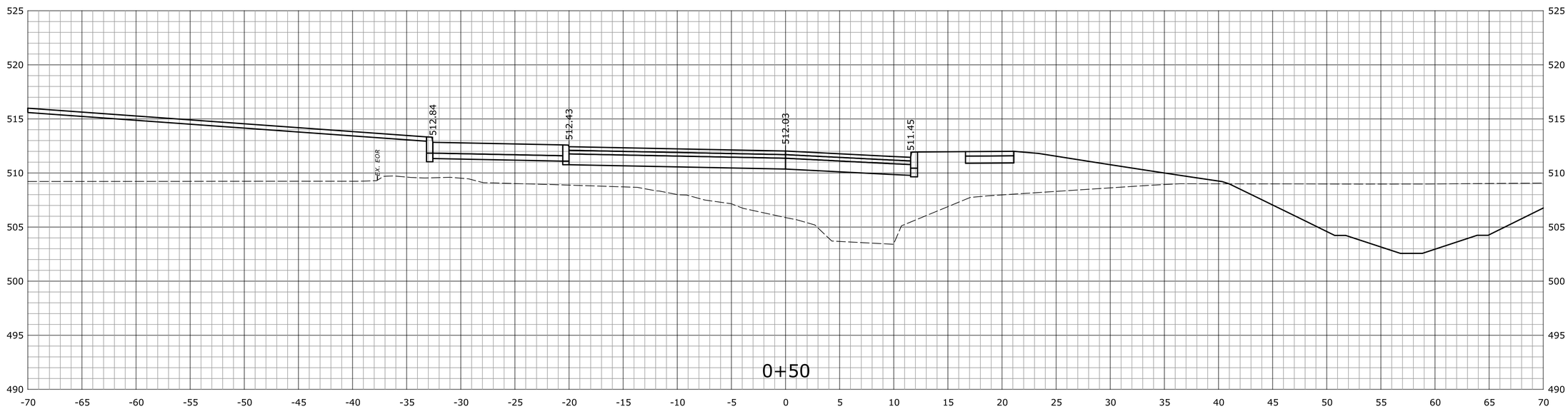
DRAWING TITLE:
CROSS SECTIONS
ROUTE 319

DRAWING NO.
XSC-40

SHEET NO.
03.88

STA.0+50 TO STA.1+50





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 7/12/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

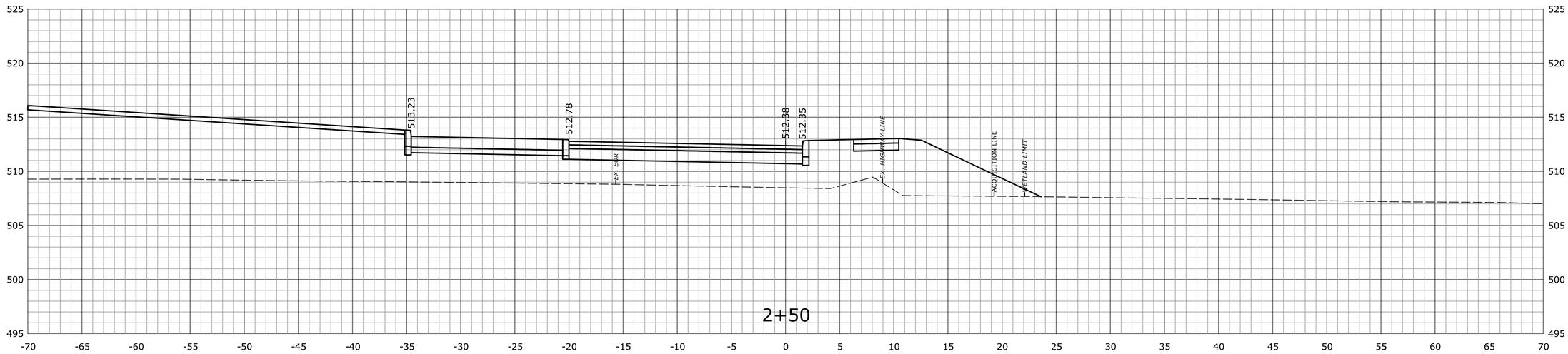
PROJECT NO. 0134-0147

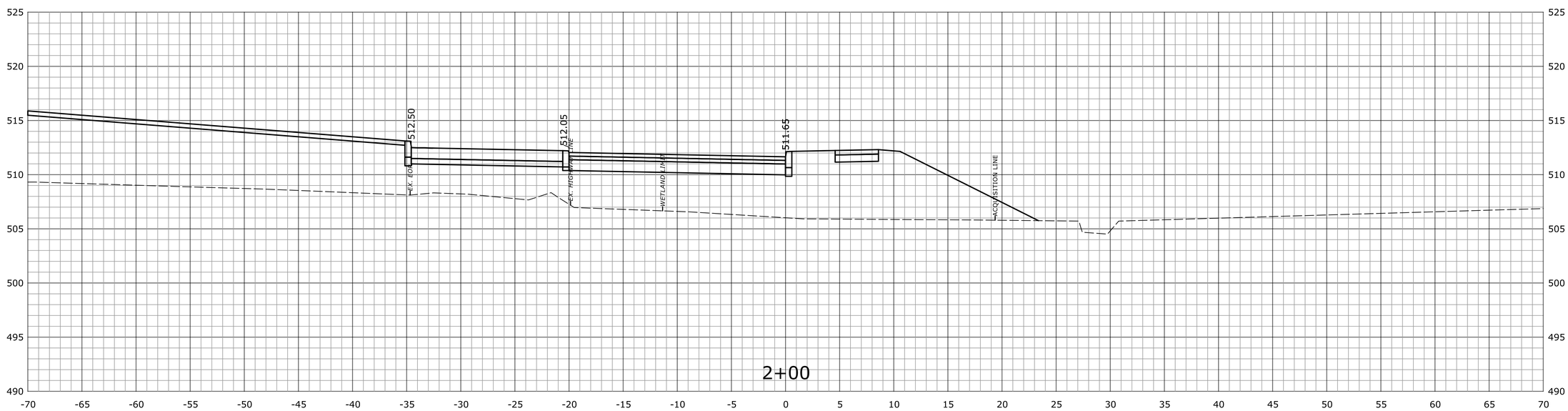
DRAWING TITLE:
CROSS SECTIONS
ROUNDABOUT

DRAWING NO.
XSC-41

SHEET NO.
03.89

STA.2+00 TO STA.2+50





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Plotted Date: 7/12/2019
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REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

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NEWINGTON, CT 06111

APPROVED BY:

Matthew Vaz

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

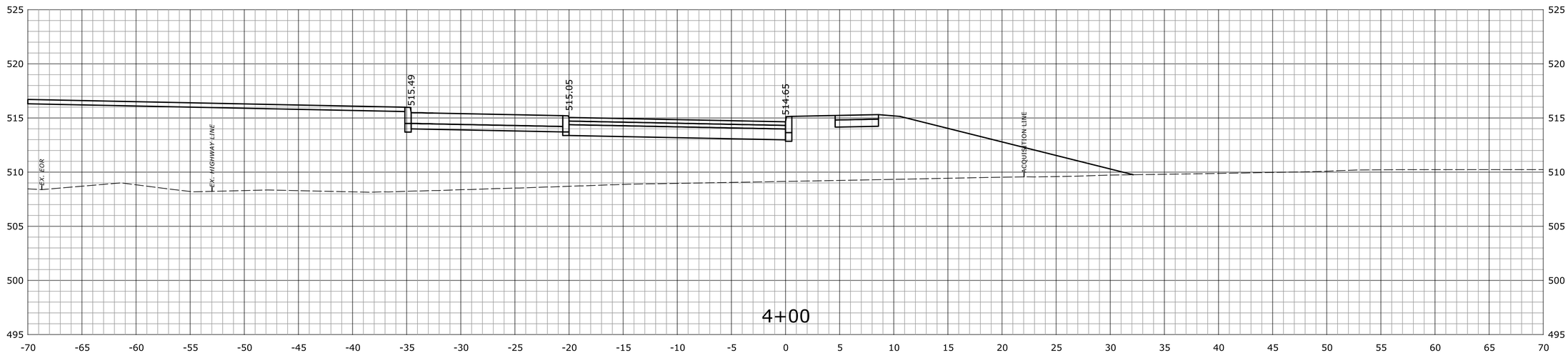
PROJECT NO. 0134-0147

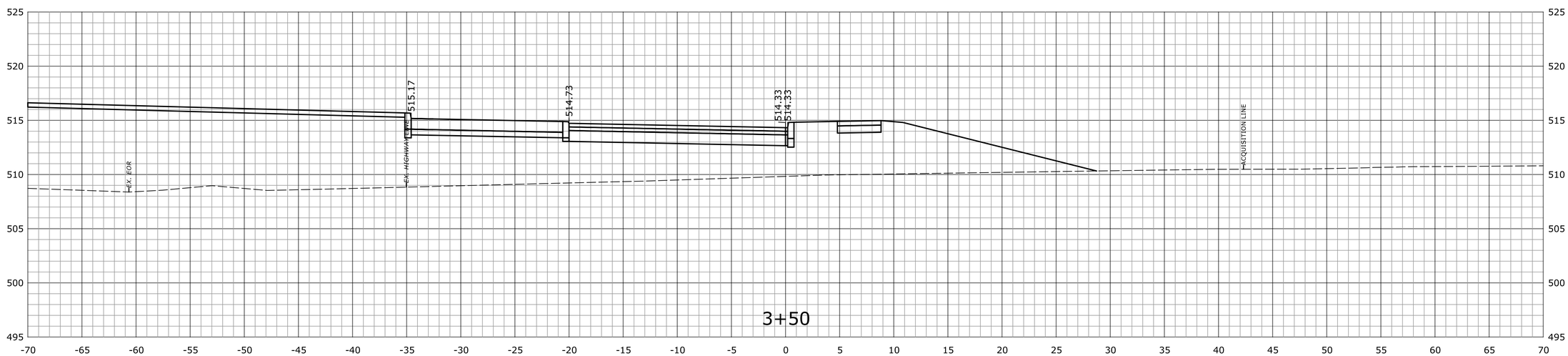
DRAWING TITLE:
CROSS SECTIONS
ROUNDABOUT

DRAWING NO.
XSC-42

SHEET NO.
03.90

STA.3+50 TO STA.4+00





DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 7/12/2019
Filename: pw:\\ctdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

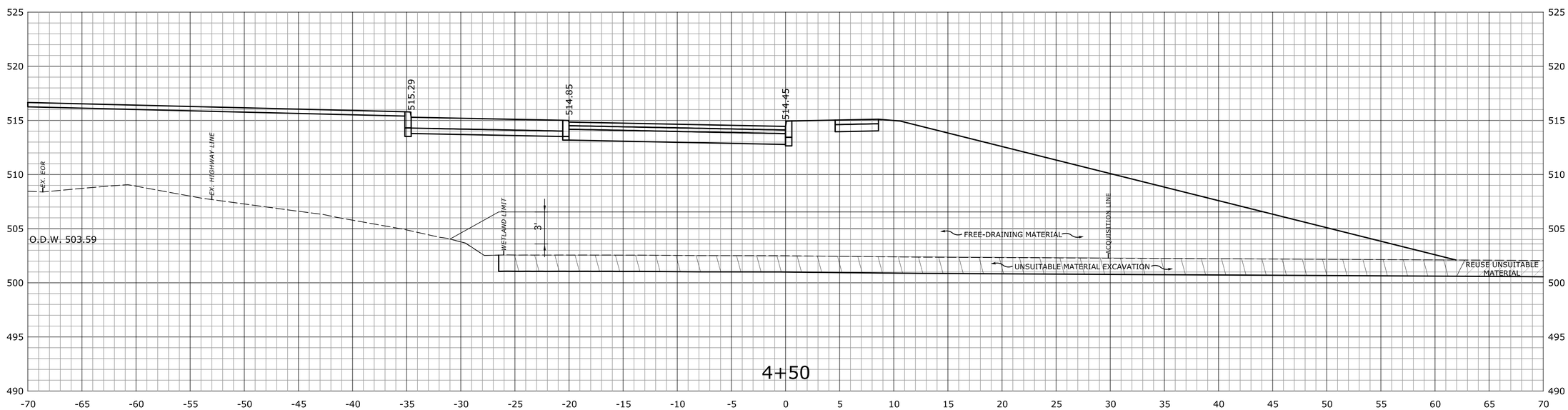
PROJECT NO. 0134-0147

DRAWING TITLE:
CROSS SECTIONS
ROUNDABOUT

DRAWING NO.
XSC-43

SHEET NO.
03.91

STA.4+50 TO STA.4+50



DESIGNER/DRAFTER: JLG
CHECKED BY: SDH

Plotted Date: 7/12/2019
Filename: pw:\\cdot.projectwiseonline.com:CTDOT\Documents\01.0 - Projects - Active\0134-0147\330_Design_Data\Highways\OpenRoads_HW_DESIGN_0134-0147.dgn

REV.	DATE	REVISION DESCRIPTION
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0 5' 10'
HORIZONTAL SCALE
1"=5'

SIGNATURE/
BLOCK:

OFFICE OF ENGINEERING
2800 BERLIN TURNPIKE
NEWINGTON, CT 06111

APPROVED BY:

Matthew Vail

STATE OF CONNECTICUT
DEPARTMENT
OF
TRANSPORTATION

MODERN ROUNDABOUT
AT ROUTE 190 AND ROUTE 319

TOWN OF STAFFORD

PROJECT NO. 0134-0147

DRAWING TITLE:
CROSS SECTIONS
ROUNDABOUT

DRAWING NO.
XSC-44

SHEET NO.
03.92