

BERNARDS AVENUE NEIGHBORHOOD IMPROVEMENTS PHASE 2

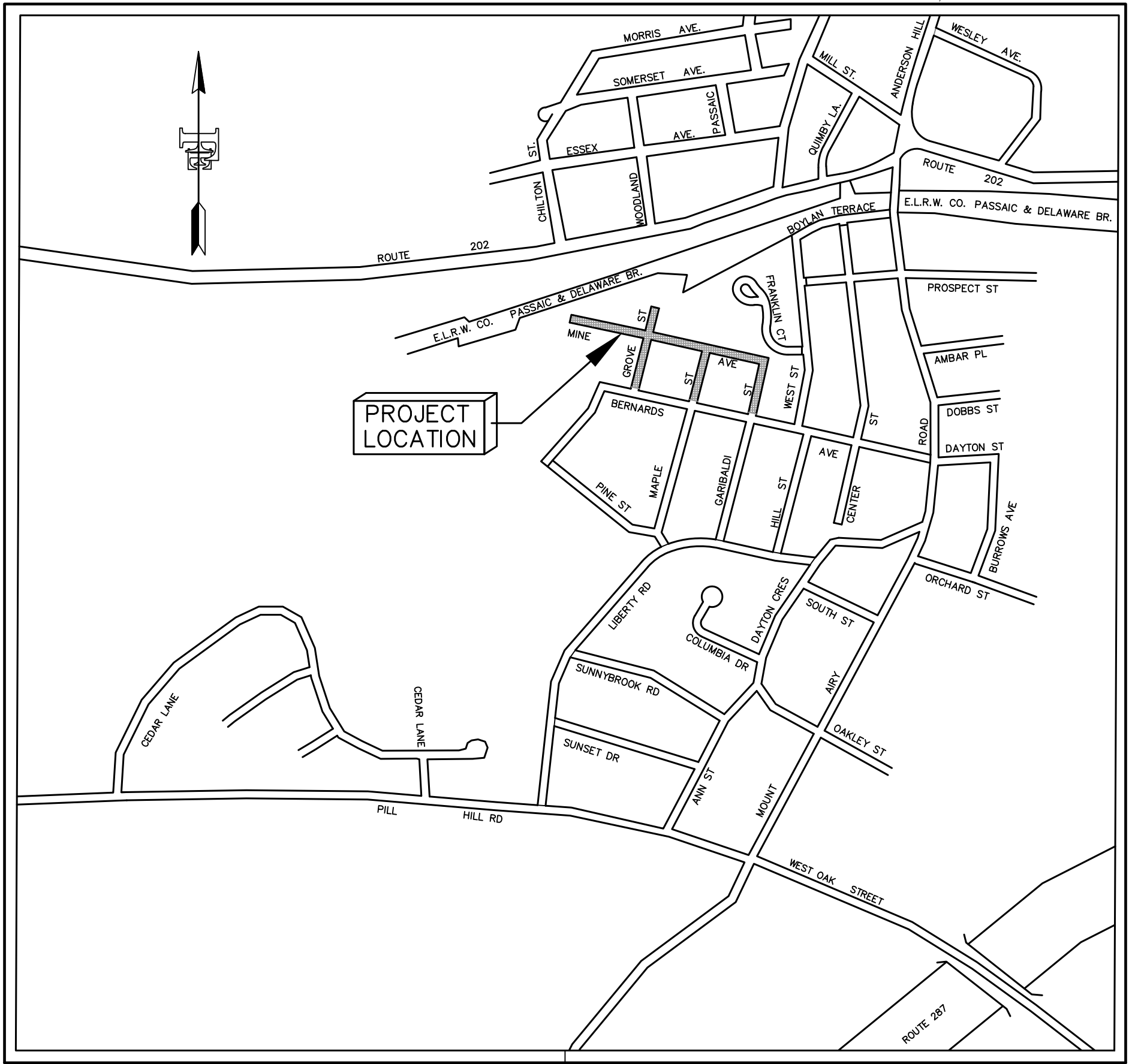
GROVE STREET, MAPLE AVENUE, GARIBALDI STREET, AND MINE AVENUE

BOROUGH OF BERNARDSVILLE SOMERSET COUNTY, NEW JERSEY

ESTIMATE OF QUANTITIES			
ITEM NO.	ESTIMATED QUANTITY	UNIT	DESCRIPTION
BASE BID			
1a	80	SF	CONSTRUCTION SIGNS, (48" X 48")
1b	60	SF	CONSTRUCTION SIGNS, (48" X 30")
1c	40	UNIT	DRUMS
1d	10	UNIT	BREAKAWAY BARRICADES, TYPE III
2	1	LS	CLEARING SITE
3	25	CY	EXCAVATION, TEST PIT (IF AND WHERE REQUIRED)
4	1,200	CY	EXCAVATION, UNCLASSIFIED (FROM CROSS SECTIONS)
5	150	CY	EXCAVATION, UNCLASSIFIED UNSTABLE SUBGRADE (IF AND WHERE DIRECTED)
6	150	CY	SUBBASE (IF AND WHERE DIRECTED)
7	1,500	TON	HOT MIX ASPHALT BASE COURSE, 19M64, 5" THICK
8	600	TON	HOT MIX ASPHALT SURFACE COURSE, 9.5M64, 2" THICK
9	32	LF	12" REINFORCED CONCRETE PIPE, CLASS V
10	40	LF	15" REINFORCED CONCRETE PIPE, CLASS IV
11	64	LF	18" REINFORCED CONCRETE PIPE, CLASS IV
12	100	LF	4" TO 6" LEADER DRAIN CONNECTION (IF AND WHERE DIRECTED)
13	2	UNIT	INLET, TYPE A
14	2	UNIT	INLET, TYPE B1
15	6	UNIT	INLET, TYPE D
16	1	UNIT	INLET, TYPE E
17	4	UNIT	RECONSTRUCTED INLET, TYPE A WITH NEW CASTING
18	2	UNIT	RECONSTRUCTED INLET, TYPE E WITH NEW CASTING
19	1	UNIT	RECONSTRUCTED STORM MANHOLE WITH NEW CASTING
20	7	UNIT	SET NEW MANHOLE CASTING (SANITARY SEWER)
21	30	SY	CONCRETE SIDEWALK, 4" THICK (FRONT WALKS)
22	60	SY	RESET PAVERS (FRONT WALKS AND DRIVEWAYS)
23	1,000	SY	HOT MIX ASPHALT DRIVEWAY RESTORATION
24	150	LF	GRANITE BLOCK CURB, VERTICAL
25	4,400	LF	GRANITE BLOCK CURB, SLOPING
26	5	UNIT	RESET MAILBOX (IF AND WHERE DIRECTED)
27	25	UNIT	RESET WATER VALVE BOX
28	5	UNIT	RESET GAS VALVE BOX
29	250	CY	BORROW TOPSOIL, 4" THICK
30	1,700	SY	FERTILIZING AND SEEDING, TYPE A3
31	1,700	SY	STRAW MULCHING, WITH TACKIFIER
32	1	LS	FINAL CLEANUP
33	1	DOLL	ASPHALT PRICE ADJUSTMENT
34	1	DOLL	FUEL PRICE ADJUSTMENT

NOTES RELATING TO BID ITEMS:

- ESTIMATED QUANTITIES MAY INCLUDE SHEET TOTALS AND IF AND WHERE DIRECTED QUANTITIES
- THE ASPHALT PRICE ADJUSTMENT PROVISIONS OF THE STATE STANDARD SPECIFICATIONS WILL APPLY TO THIS PROJECT AND THE ESTABLISHED PRICE LISTED IN THE BID PROPOSAL WILL BE ADJUSTED, AS APPLICABLE, AS PART OF THE FINAL CHANGE ORDER.
- THE FUEL PRICE ADJUSTMENT PROVISIONS OF THE STATE STANDARD SPECIFICATIONS WILL APPLY TO THIS PROJECT AND THE ESTABLISHED PRICE LISTED IN THE BID PROPOSAL WILL BE ADJUSTED, AS APPLICABLE, AS PART OF THE FINAL CHANGE ORDER.
- TRAFFIC DIRECTOR, FLAGGER REQUIRED BY THE CONTRACTOR WILL NOT BE MEASURED FOR PAYMENT, BUT ALL COSTS SHALL BE CONSIDERED INCLUDED IN THE VARIOUS UNIT PRICES BID FOR TRAFFIC CONTROL ITEMS IN THE PROPOSAL.
- THE COST OF POLICE TRAFFIC DIRECTORS, AS INDICATED IN THE TRAFFIC CONTROL PLANS, OR AS REQUIRED BY THE BERNARDSVILLE POLICE CHIEF, SHALL BE BORNE BY THE BOROUGH.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POLICE TRAFFIC DIRECTOR COSTS BEYOND THE TIME OF COMPLETION DATE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL POLICE COSTS WHERE THE CONTRACTOR FAILS TO CANCEL POLICE OFFICERS, DUE TO INCLEMENT WEATHER OR OTHER REASONS, WITHIN 2 HOURS OF THE SCHEDULED WORKING HOUR START TIME.



LOCATION MAP
NTS

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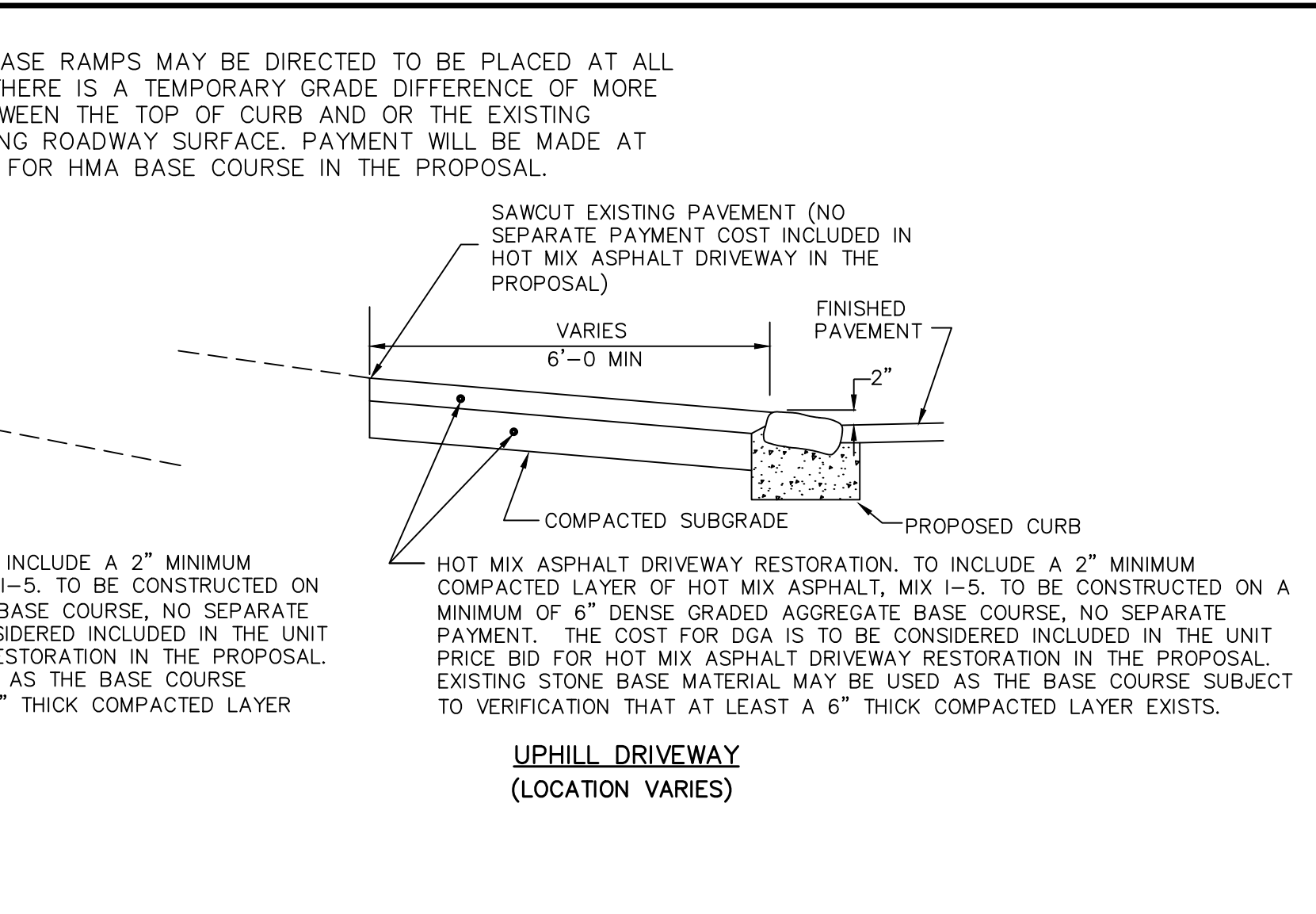
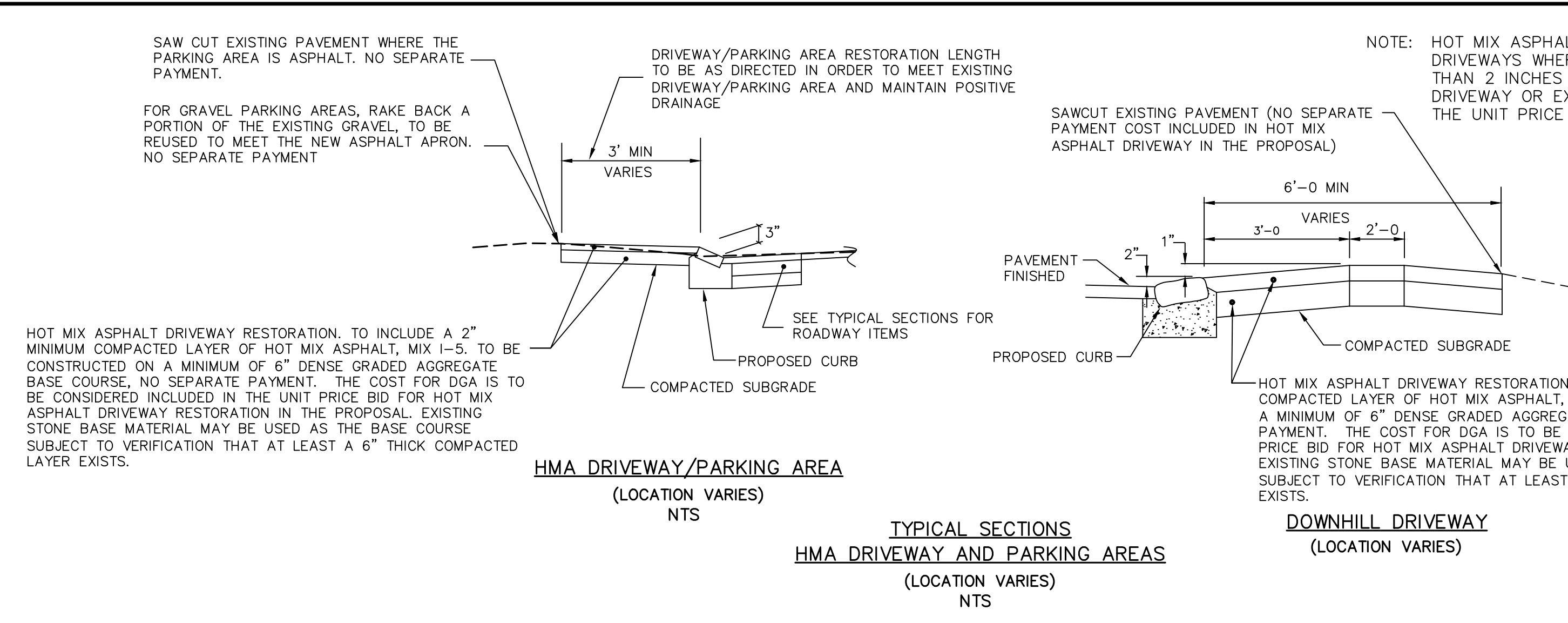
GENERAL NOTES:

- THE 2019 NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WITH AMENDMENTS THERETO TO GOVERN.
- ALL REINFORCED CONCRETE PIPE, DESIGNATED ON THE PLANS AS RCP, TO BE CLASS V, UNLESS INDICATED OTHERWISE ON THE CONSTRUCTION PLANS.
- ALL HIGH DENSITY POLYETHYLENE PIPE, DESIGNATED ON THE PLANS AS HDPE, TO BE N–12 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS OR EQUAL.
- THE VERTICAL DATUM IS BASED UPON NAVD 88 DERIVED USING LEICA GX1230 GPS RECEIVERS AND KEYNET.

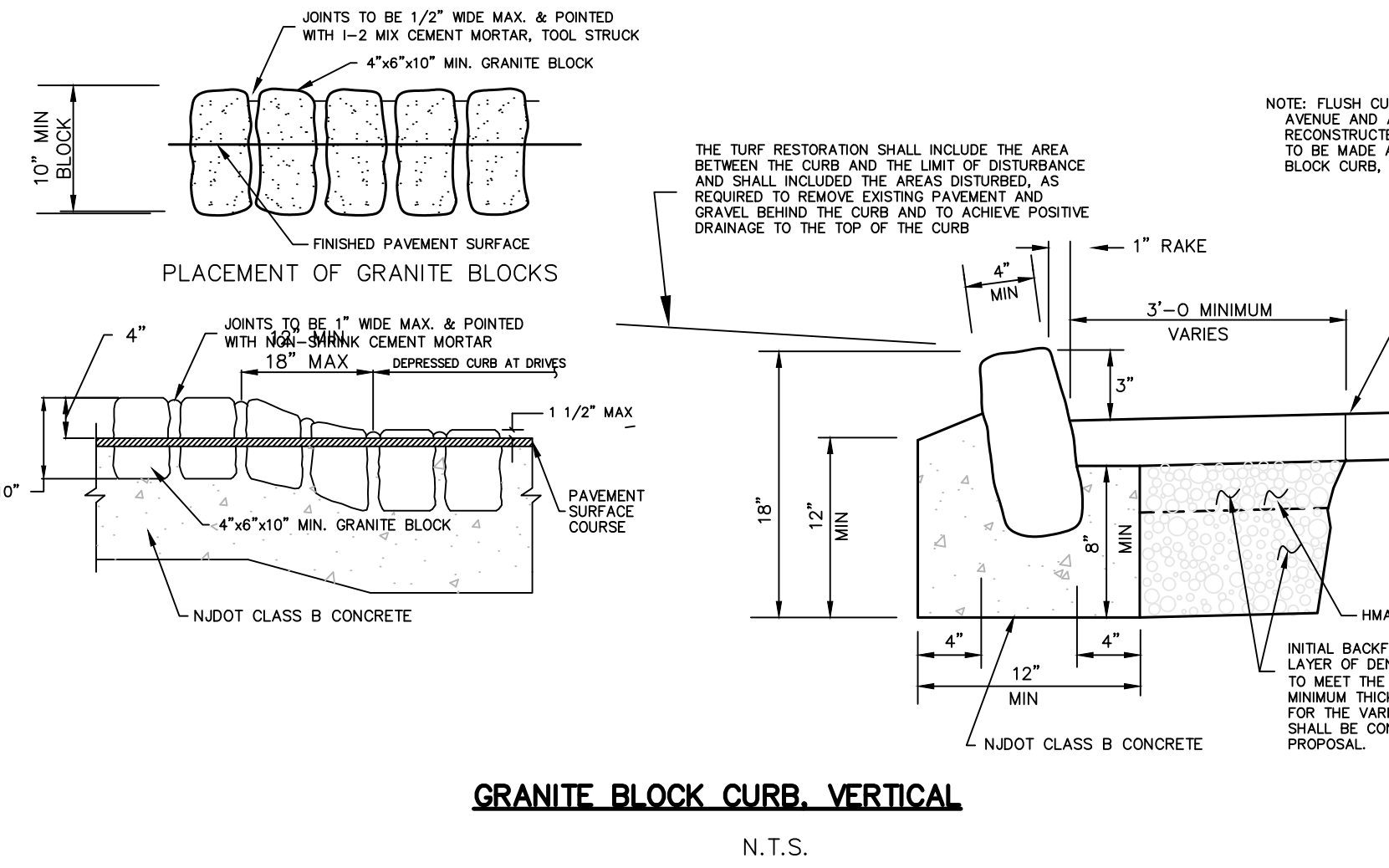
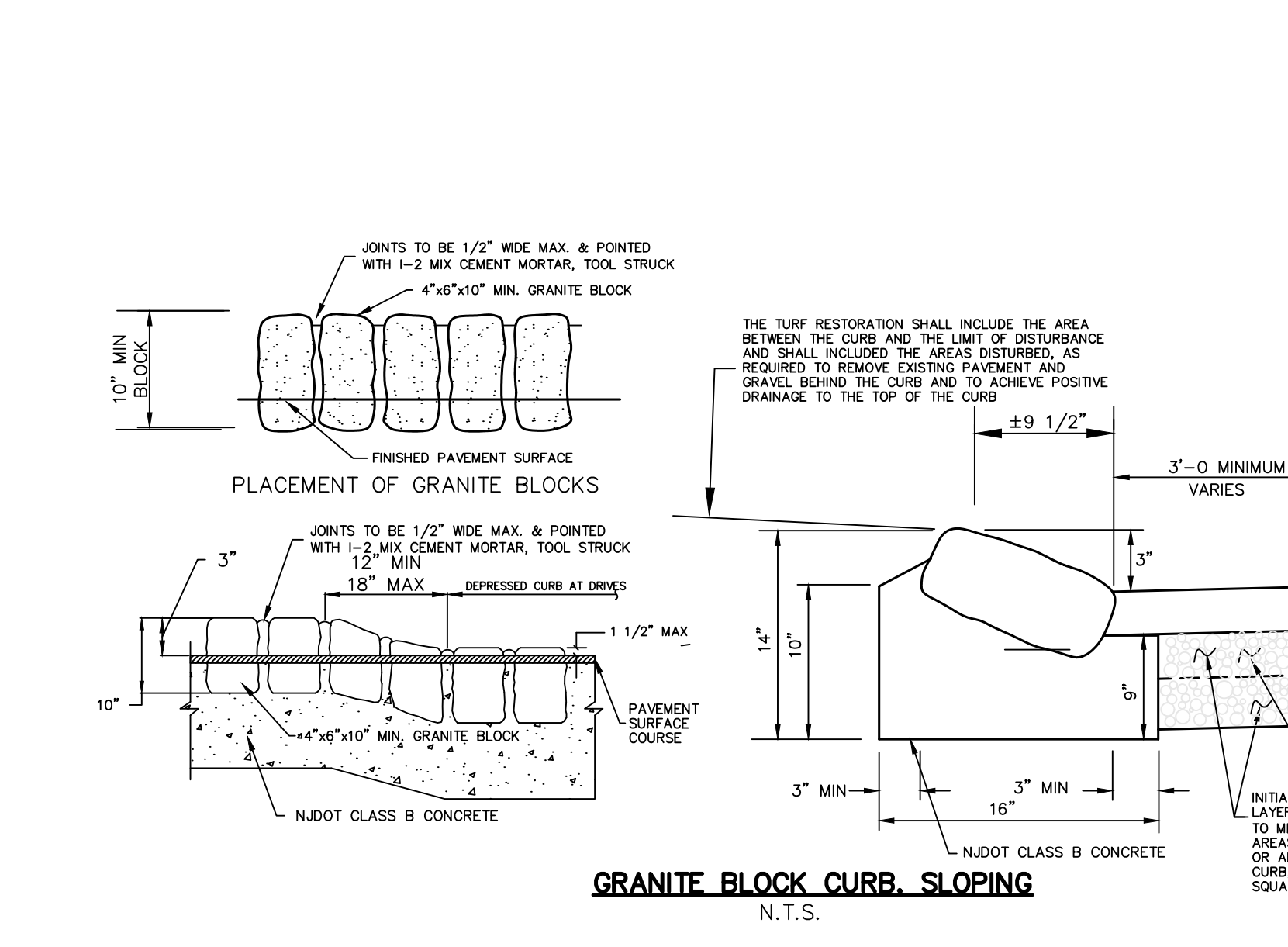
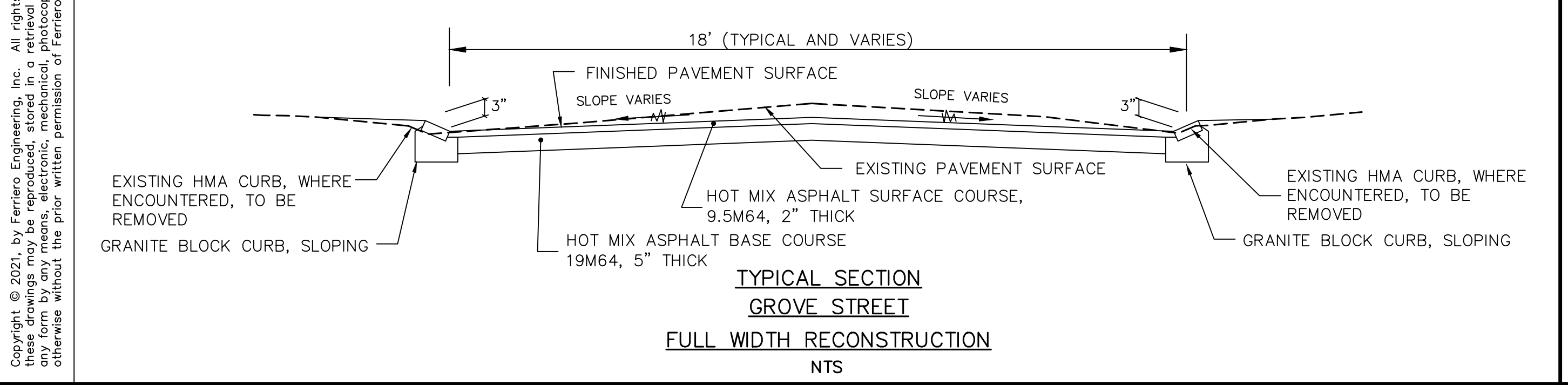
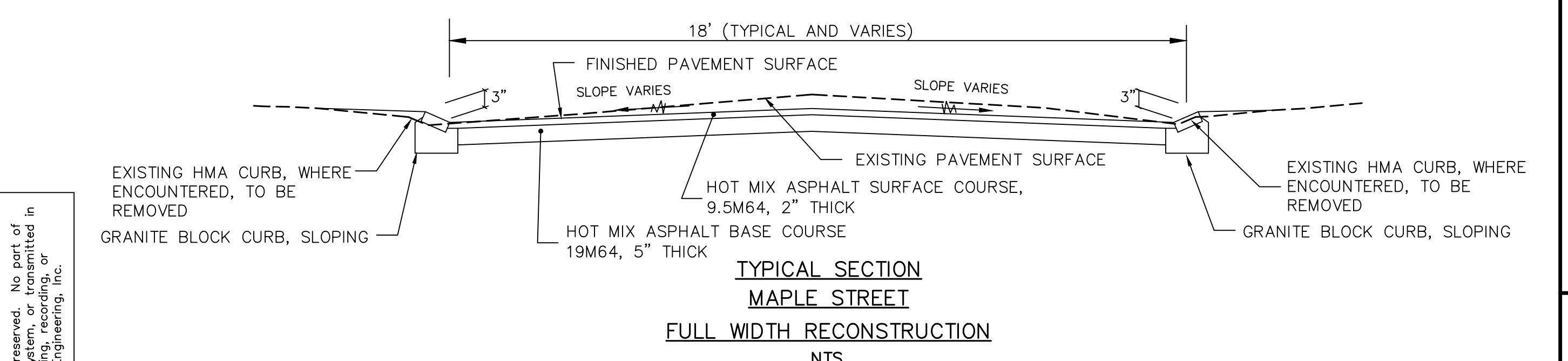
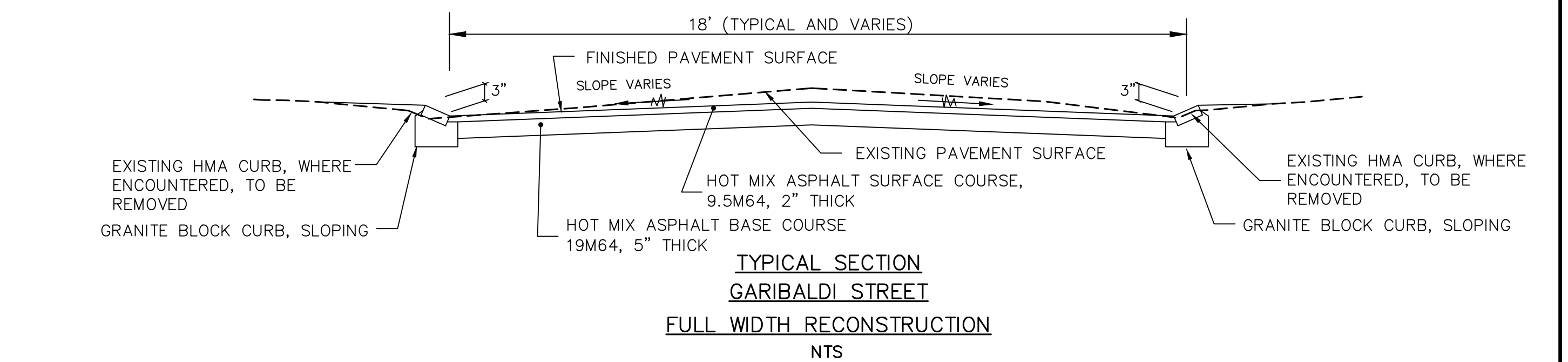
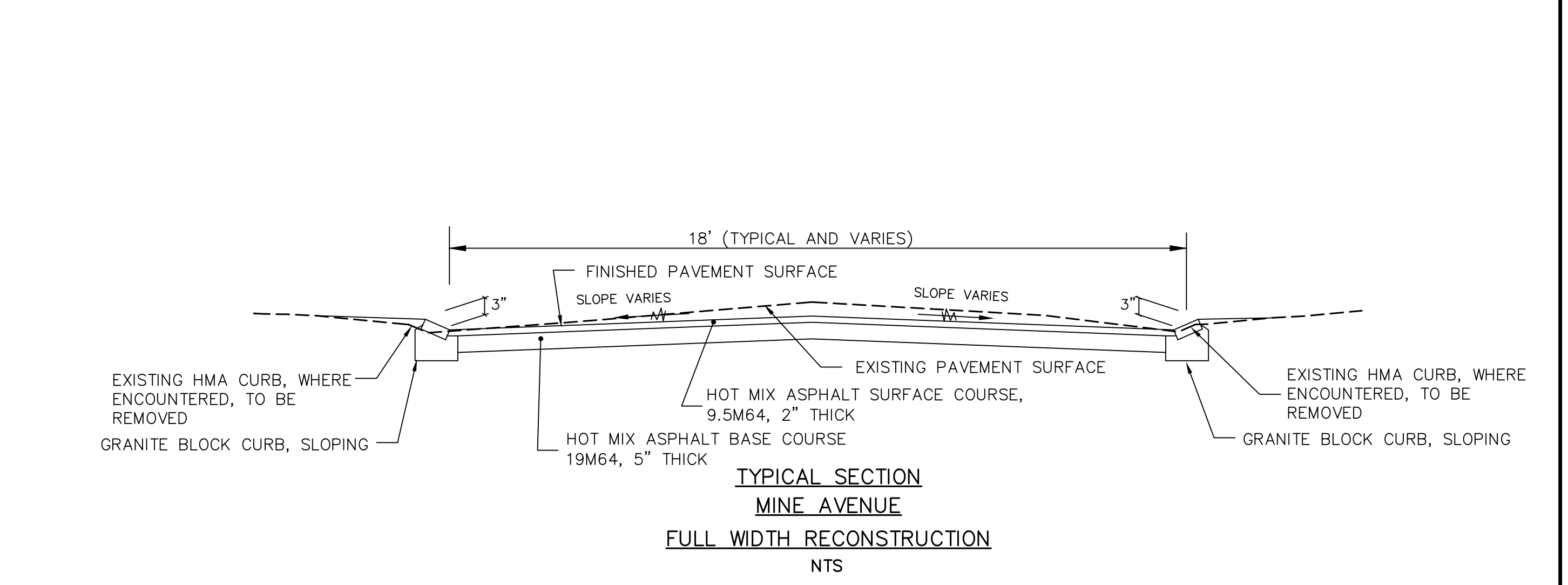
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- CONSTRUCTION NOTES:
- BACKFILL ADJACENT TO ALL NEW CURB, AFTER THE REMOVAL OF THE EXISTING PAVEMENT, CURB, OR CUTTER, WHERE REQUIRED, SHALL INCLUDE DENSE GRADED AGGREGATE ON THE ROADWAY SIDE FROM THE BOTTOM OF THE CURB EXCAVATION TO THE BOTTOM OF THE HMA BASE COURSE LAYER A MINIMUM OF 1 FOOT WIDE, MEASURED FROM THE FOOTING. THERE SHALL BE NO ADDITIONAL PAYMENT FOR THE EXTRA DEPTH OF DENSE GRADED AGGREGATE ADJACENT TO THE CURB, BUT ALL COSTS SHALL BE CONSIDERED IN THE UNIT PRICE BID FOR DENSE GRADED AGGREGATE IN THE PROPOSAL.
 - THERE SHALL BE NO SEPARATE PAYMENT FOR SAW CUTTING THE EXISTING PAVEMENT FOR EITHER STORM DRAINS, CURBING, DRIVEWAY RESTORATION OR FOR ASPHALT BASE REPAIR AND INSTALLATION. ALL COSTS SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE (CURB, DRIVEWAYS, HOT MIX ASPHALT BASE AND OR STORM DRAIN) ITEMS IN THE PROPOSAL.
 - REMOVAL OF THE EXISTING PAVEMENT, CURB, SIDEWALKS, AND OTHER UNCLASSIFIED MATERIAL, BETWEEN THE SAW CUT EDGE OF THE EXISTING PAVEMENT AND THE BACK EDGE OF THE CURB SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR EXCAVATION, UNCLASSIFIED IN THE PROPOSAL. EXCAVATION, UNCLASSIFIED, WILL NOT BE MEASURED, BUT PAYMENT WILL BE MADE FOR THE QUANTITY LISTED IN THE PROPOSAL, OR AS ADJUSTED FOR CHANGE ORDERS.
 - REMOVAL OF THE EXISTING PAVEMENT, CURB, SIDEWALKS, AND OTHER UNCLASSIFIED MATERIAL FROM THE BACK EDGE OF THE CURB TO THE CONNECTION POINT OUT, EITHER FOR DRIVEWAY AND PARKING AREA RESTORATION, SIDEWALK AND OR TOPSOIL AND SEEDING, SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE ITEMS (DRIVEWAY RESTORATION, SIDEWALKS AND OR TOPSOIL AND SEEDING) IN THE PROPOSAL. EXCAVATION OF THESE AREAS WILL NOT BE MEASURED FOR PAYMENT UNDER THE EXCAVATION, UNCLASSIFIED ITEM IN THE PROPOSAL.
 - DENSE GRADED AGGREGATE REQUIRED FOR BACKFILL OF STORM DRAINS AND STRUCTURES SHALL NOT BE MEASURED AND SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR STORM DRAIN ITEMS IN THE PROPOSAL. DENSE GRADED AGGREGATE REQUIRED UNDER DRIVEWAYS AND SIDEWALKS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR DRIVEWAYS AND SIDEWALKS IN THE PROPOSAL. IN AREAS WHERE THE ROADWAY IS TO BE WIDENED IN FILL SECTIONS, THE TOPSOIL SHALL BE STRIPPED TO A MINIMUM DEPTH OF 6-INCHES AND THE AREA BROUGHT TO THE PROPER SUBGRADE WITH DENSE GRADED AGGREGATE. IN THESE ISOLATED AREAS, THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE EXTRA DEPTH OF DENSE GRADED AGGREGATE AND PAYMENT WILL BE MADE AT THE SQUARE YARD PRICE BID IN THE PROPOSAL.
 - THE DENSE GRADED AGGREGATE SUBBASE COURSE, 4" THICK, SHALL NOT BE MEASURED FOR PAYMENT, BUT PAYMENT WILL BE MADE FOR THE QUANTITY LISTED IN THE PROPOSAL, OR AS ADJUSTED FOR CHANGE ORDERS.
 - EXCAVATION FOR TEST PITS SHALL BE REQUIRED IN ORDER TO LOCATE THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE VARIOUS UTILITY LINES, WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE ENGINEER SHALL MARK OUT THE LOCATION WHERE TEST HOLES WILL BE PERFORMED AND WILL SURVEY THE LOCATION OF ANY UTILITIES LOCATED DURING THE TEST PITS. IN THE EVENT THERE ARE CONFLICTS WITH UTILITIES AND THE PROPOSED STORM DRAIN, THE ENGINEER WILL REVISE THE PLANS AND ISSUE A FIELD CHANGE TO THE CONTRACTOR WITHIN FIVE (5) WORKING DAYS OF THE COMPLETION OF ALL TEST PITS. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR ADHERING TO THIS PROCEDURE, WHICH IS DEEMED NECESSARY BY THE OWNER IN ORDER TO AVOID DELAYS THAT COULD OCCUR IN THE EVENT OF A CONFLICT DURING CONSTRUCTION OF THE STORM DRAIN.



LEGEND

EXISTING WATER MAIN (SIZE)

EXISTING GAS MAIN (SIZE)

EXISTING TELEPHONE CONDUIT

EXISTING ELECTRIC CONDUIT

EXISTING OVERHEAD WIRES

EXISTING WATER VALVE

EXISTING HYDRANT

EXISTING SERVICE VALVE

EXISTING GAS VALVE

EXISTING SPRINKLER HEAD

EXISTING TELEPHONE MANHOLE

EXISTING UTILITY POLE

EXISTING STREET LIGHT

EXISTING LIGHT

TRAFFIC LIGHT

EXISTING SIGN

EXISTING HEDGE ROW

EXISTING EDGE OF PAVEMENT

EXISTING CURB LINE

PROPOSED CURB LINE

CURBS

EXISTING

PROPOSED

RECONSTRUCT

RESET

NEW MANHOLE HEAD, SQUARE FRAME, CIRCULAR COVER

NEW INLET CASTING

EXISTING

PROPOSED

RECONSTRUCT

RESET/NEW CASTING

NEW MANHOLE HEAD, CIRCULAR FRAME, CIRCULAR COVER

MANHOLES

PROPOSED ASPHALT DRIVEWAY/PARKING AREA

EX. SAN. SEWER/STORM DRAIN

PROPOSED STORM DRAIN

EXISTING SPOT GRADE

PROPOSED SPOT GRADE

FULL DEPTH PAVEMENT RECONSTRUCTION

FE STAFF 10 313.85

FE STAFF 10 313.85

NO. DATE REVISION

DRAWN BY: RCB CHECKED BY: PWF SCALE: AS NOTED

PAUL W. FERRIERO
N.J. PROFESSIONAL ENGINEER
NO. GE32978

Ferriero Engineering, Inc.

180 MAIN STREET P.O. BOX 571
CHESTER, NEW JERSEY 07930
908-879-6209

CERTIFICATE OF AUTHORIZATION 240A27935400

TYPICAL SECTIONS

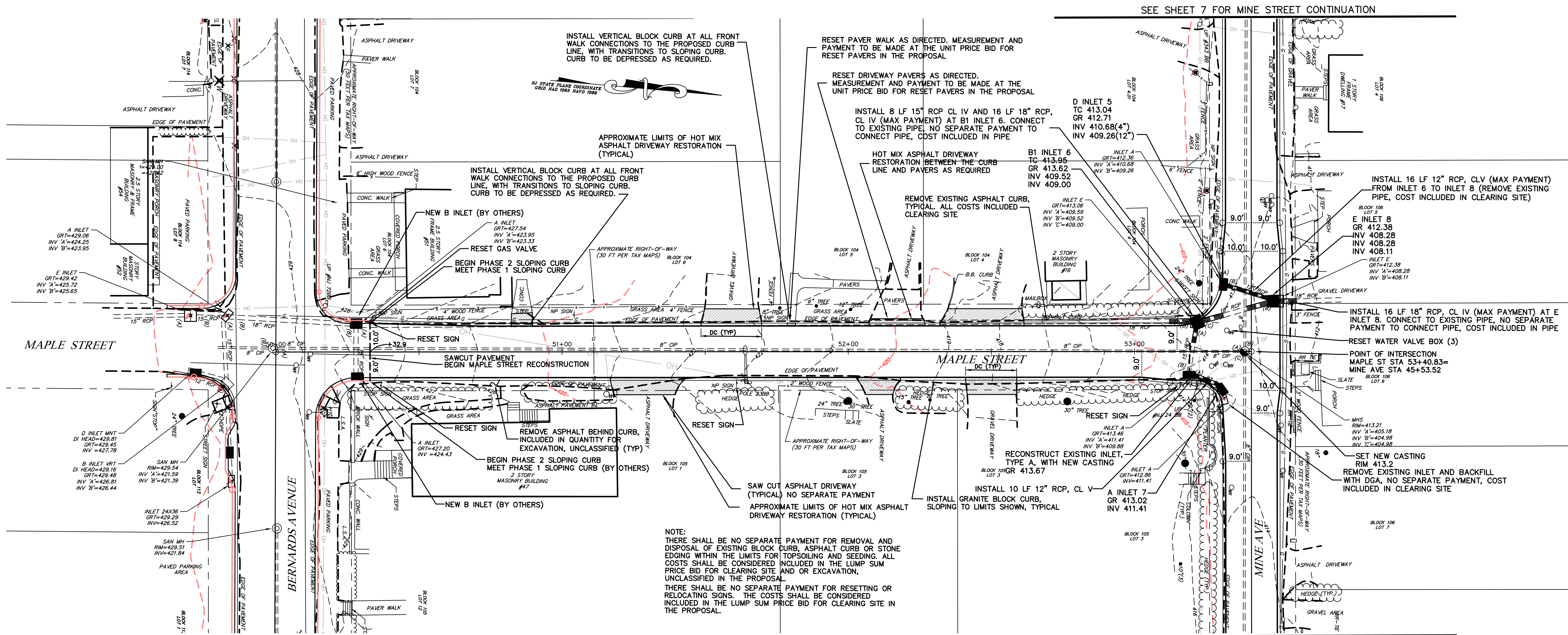
GROVE STREET,
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AND MINE AVENUE

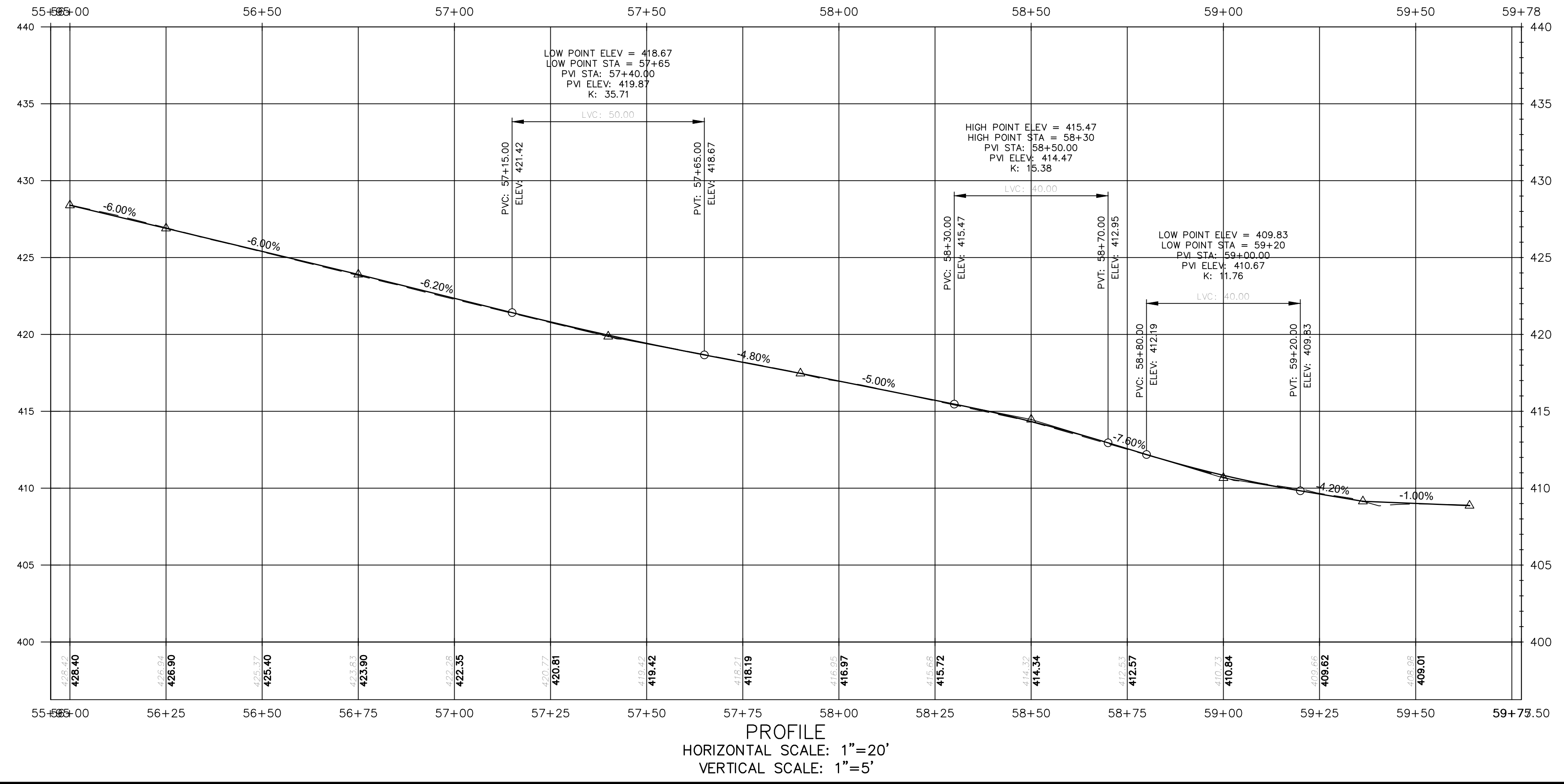
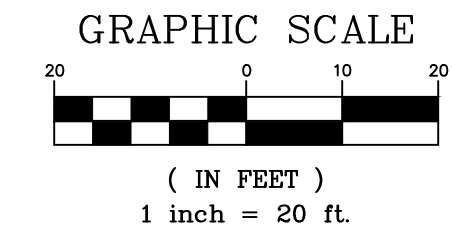
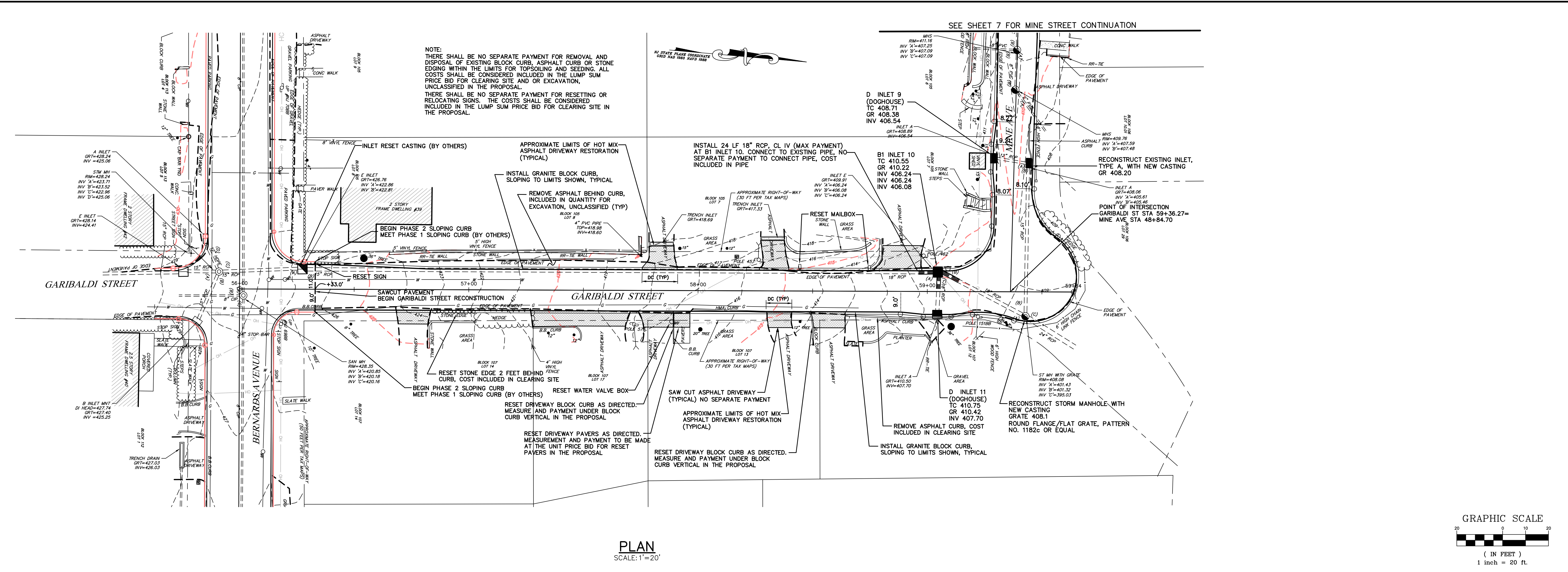
BERNARDS AVENUE
NEIGHBORHOOD
IMPROVEMENTS
PHASE 2

BOROUGH OF BERNARDSVILLE
SOMERSET COUNTY
NEW JERSEY

SHEET
2 of 21

DATE: 12/20/2022 PROJECT NO:
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NO. GE32978

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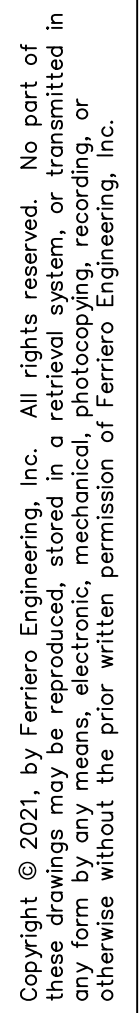
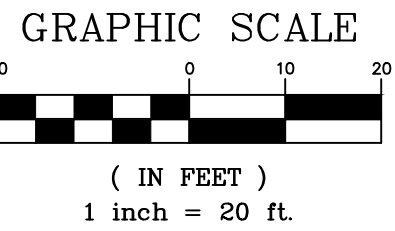
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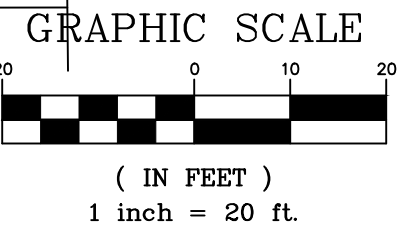
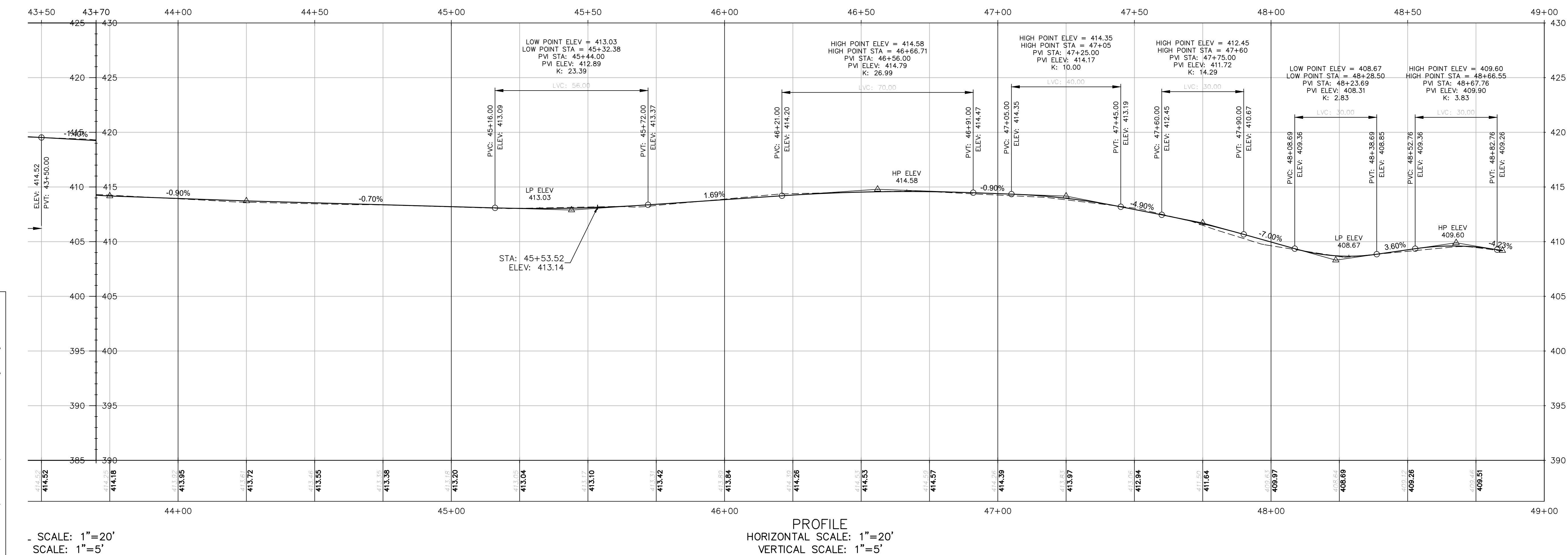
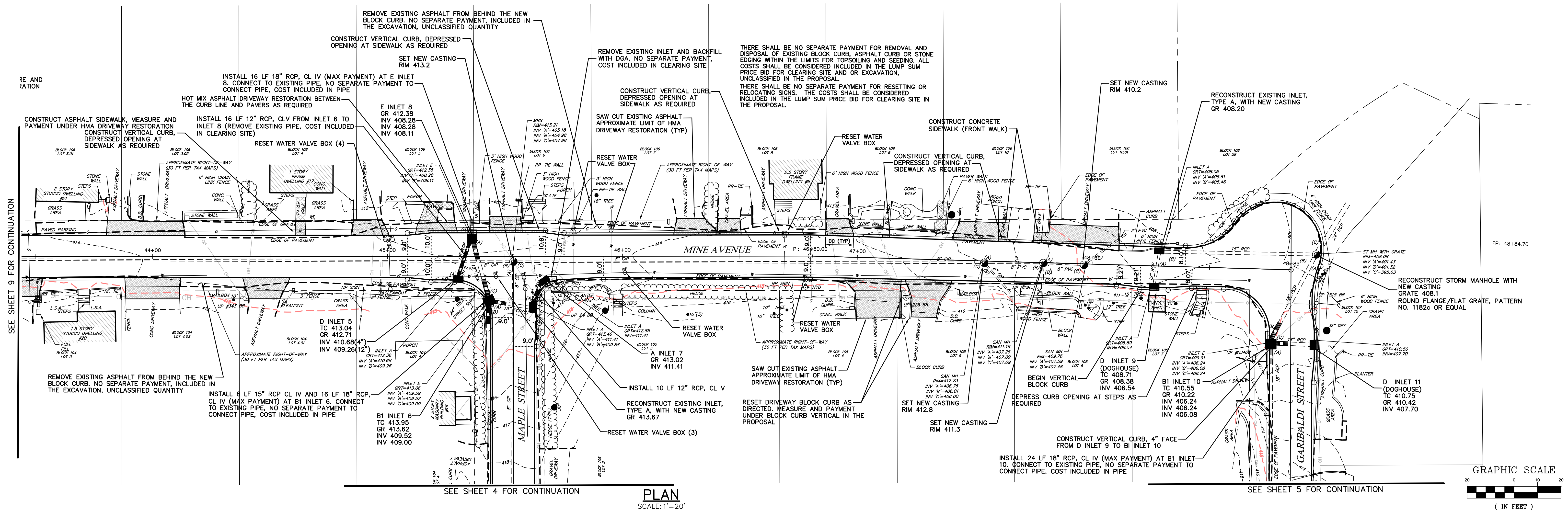
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CONSTRUCTION PLAN AND PROFILE
GARIBALDI STREET
(STA 56+00 TO 59+36.27)
BERNARDS AVENUE NEIGHBORHOOD IMPROVEMENTS PHASE 2
BOROUGH OF BERNARDSVILLE
SOMERSET COUNTY
NEW JERSEY

SHEET
5 of 21

DATE: 12/20/2022
REVISION: PROJECT NO: 21B105

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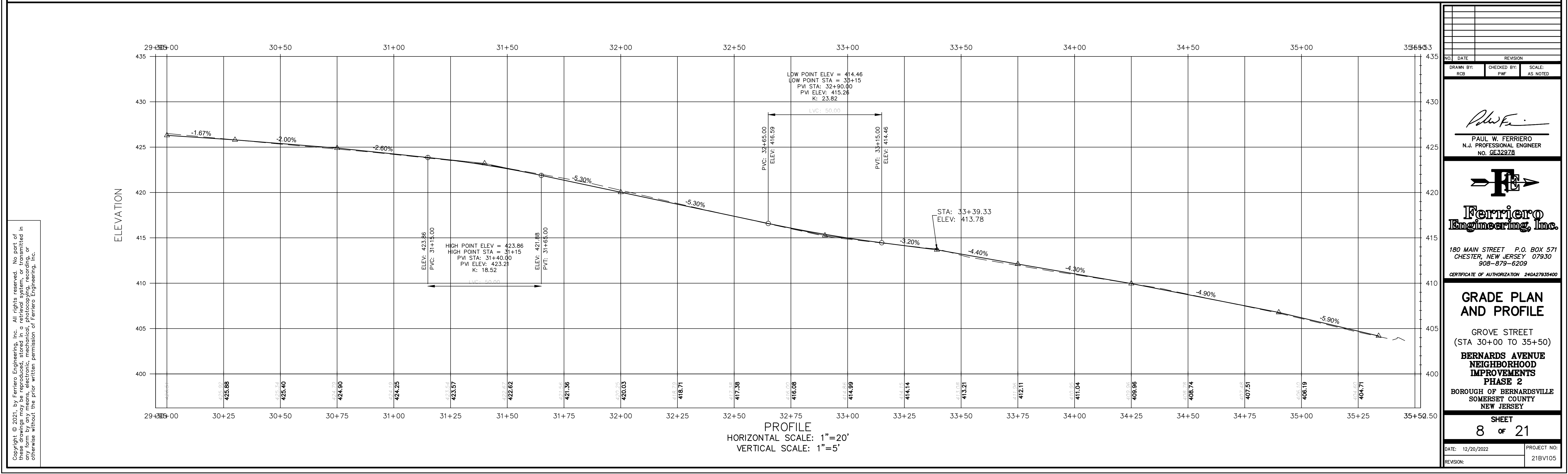
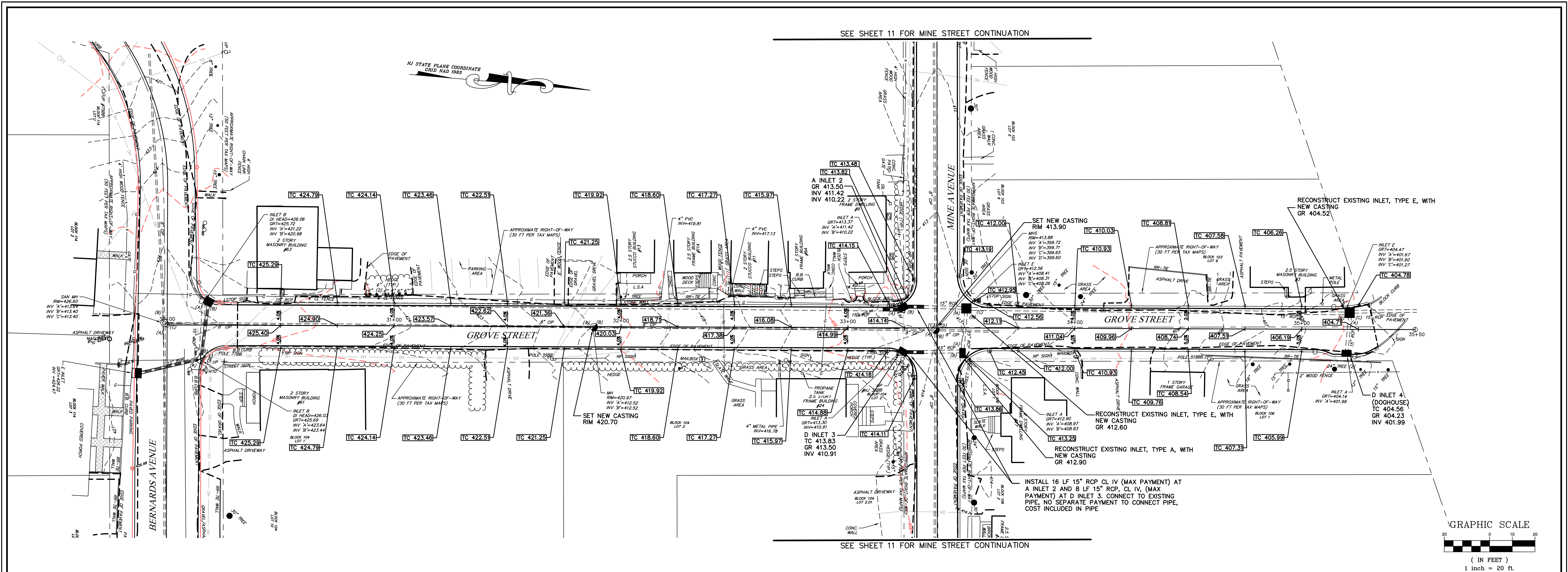
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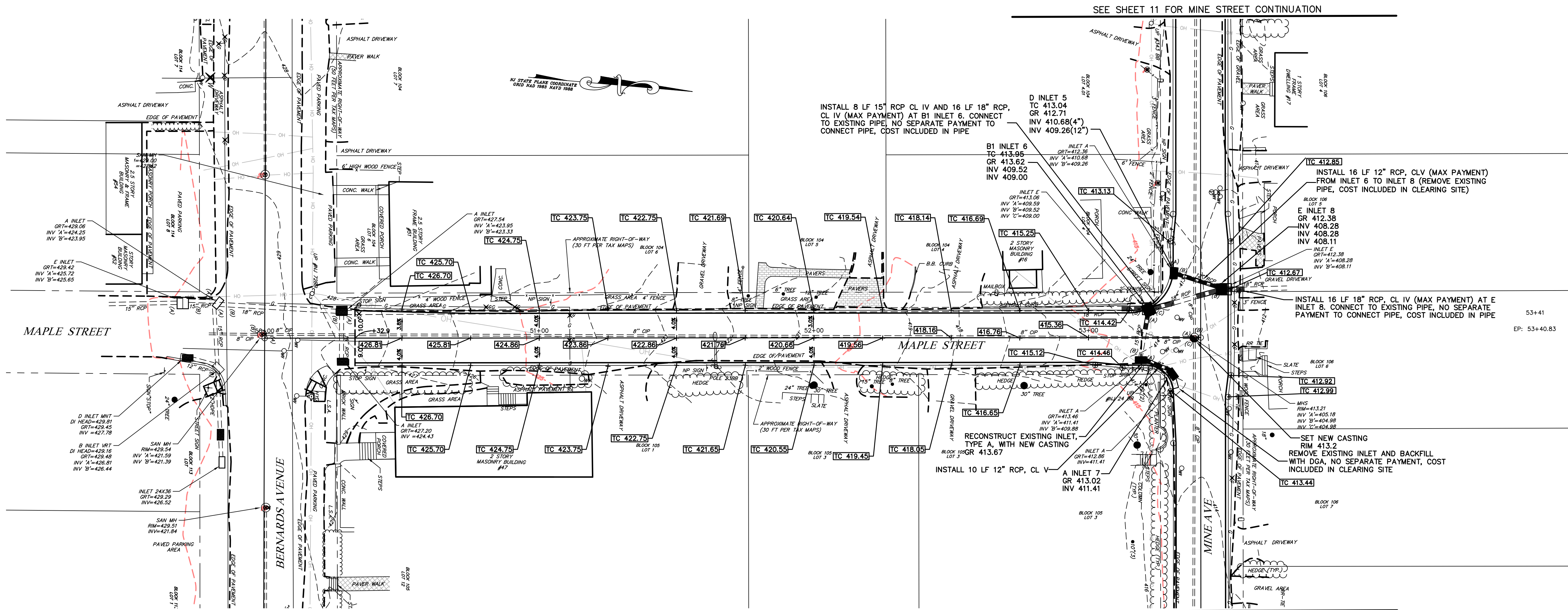
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CONSTRUCTION PLAN AND PROFILE
MINE AVENUE
(STA 43+50 TO STA 48+85)
BERNARDS AVENUE NEIGHBORHOOD IMPROVEMENTS PHASE 2
BOROUGH OF BERNARDSVILLE
SOMERSET COUNTY
NEW JERSEY

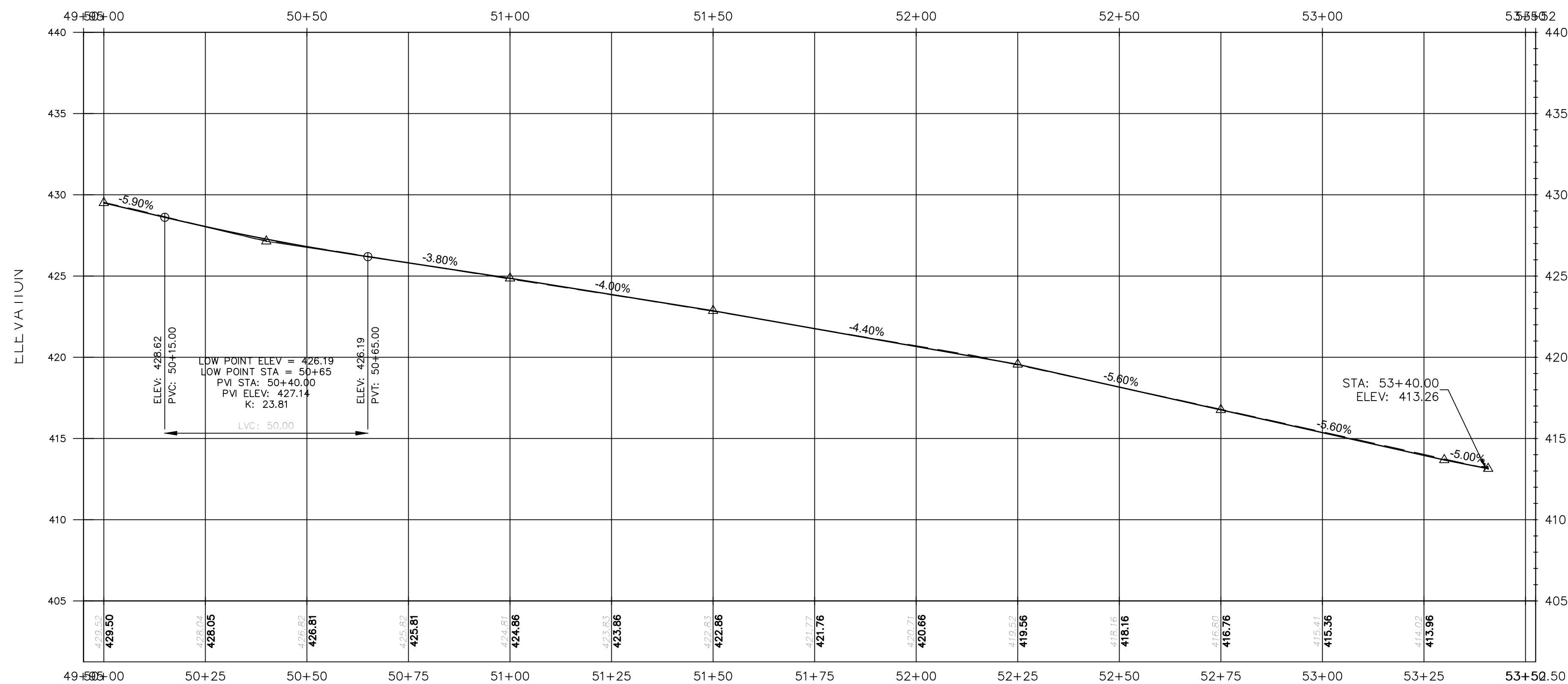
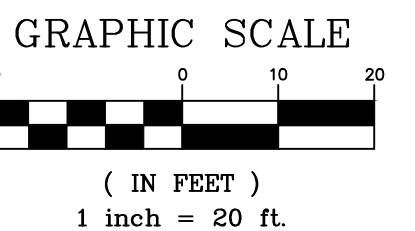
SHEET
7 of 21

DATE: 12/20/2022
REVISION:
PROJECT NO.: 21B105



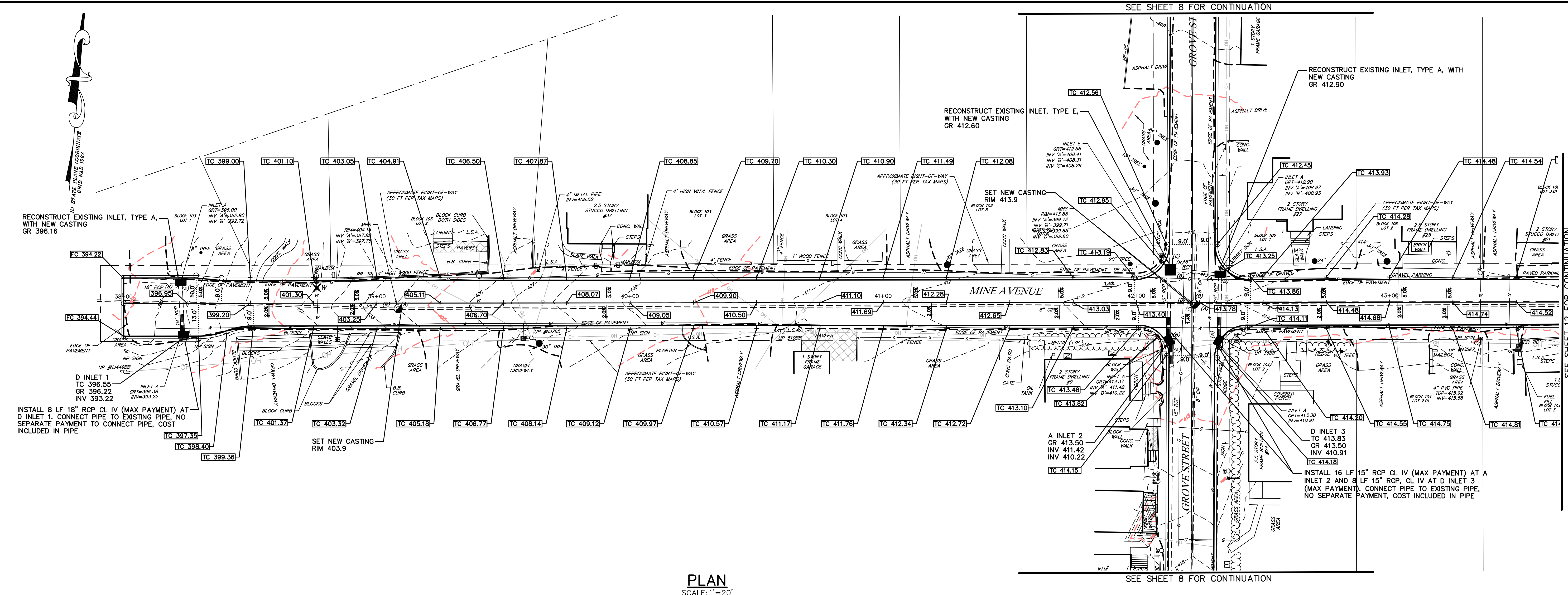


PLAN
SCALE: 1"=20'

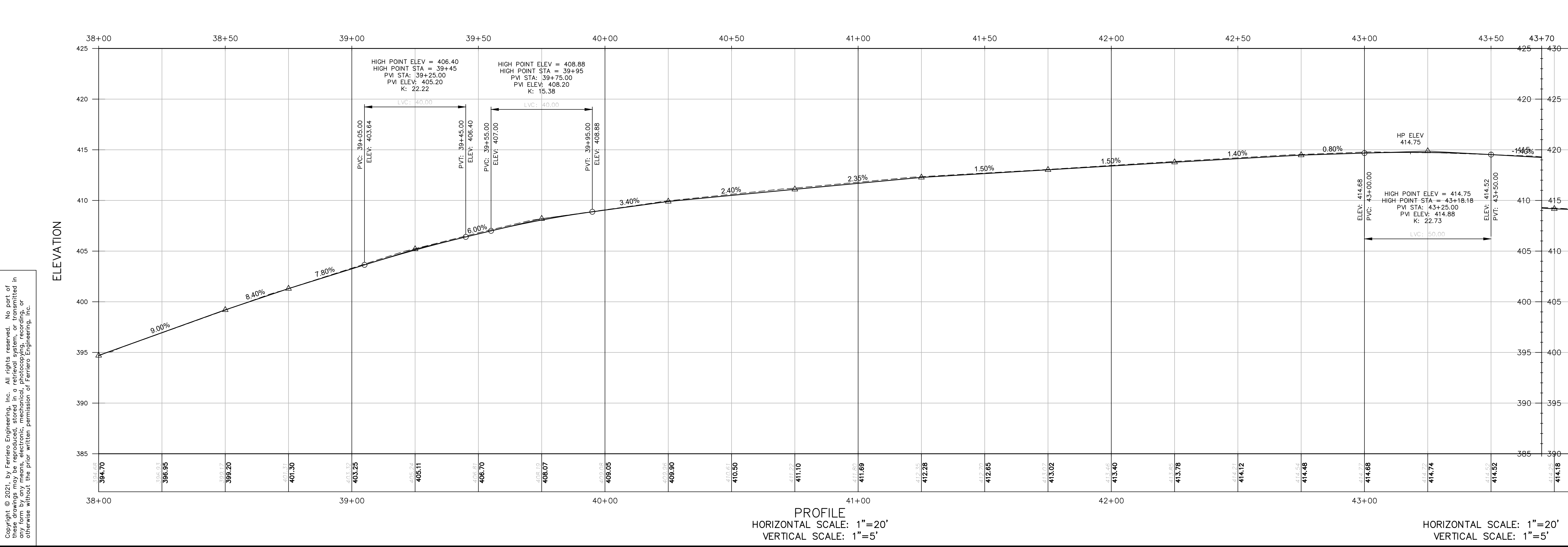
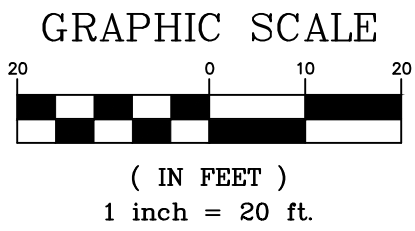


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NO.	DATE	REVISION
1	12/20/2022	AS NOTED
DRAWN BY: RCB		
CHECKED BY: PWF		
SCALE: AS NOTED		
 PAUL W. FERRIERO N.J. PROFESSIONAL ENGINEER NO. GE32978		
 Ferriero Engineering, Inc.		
180 MAIN STREET P.O. BOX 571 CHESTER, NEW JERSEY 07930 908-879-6209		
CERTIFICATE OF AUTHORIZATION 240A27935400		
GRADE PLAN AND PROFILE MAPLE STREET (STA 50+00 TO 53+40.83) BERNARDS AVENUE NEIGHBORHOOD IMPROVEMENTS PHASE 2 BOROUGH OF BERNARDSVILLE SOMERSET COUNTY NEW JERSEY		
SHEET 9 OF 21		
DATE: 12/20/2022	PROJECT NO: 21B1V105	
REVISION:		



PLAN
SCALE: 1"=20'



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

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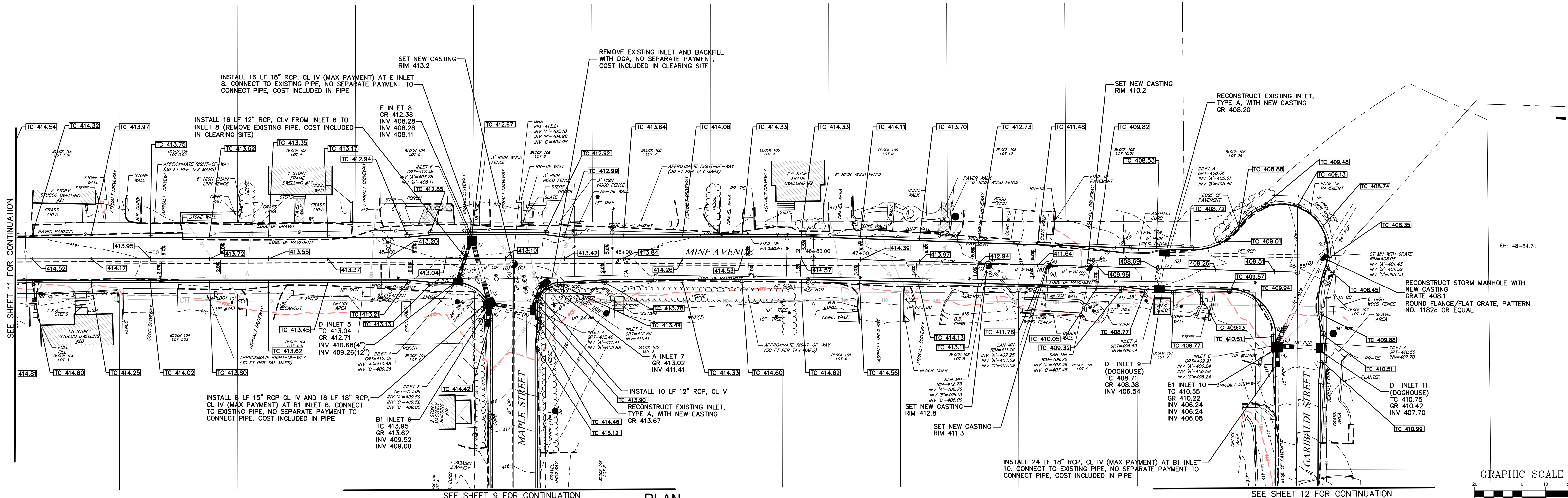
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(STA 38+00 TO STA 43+50)

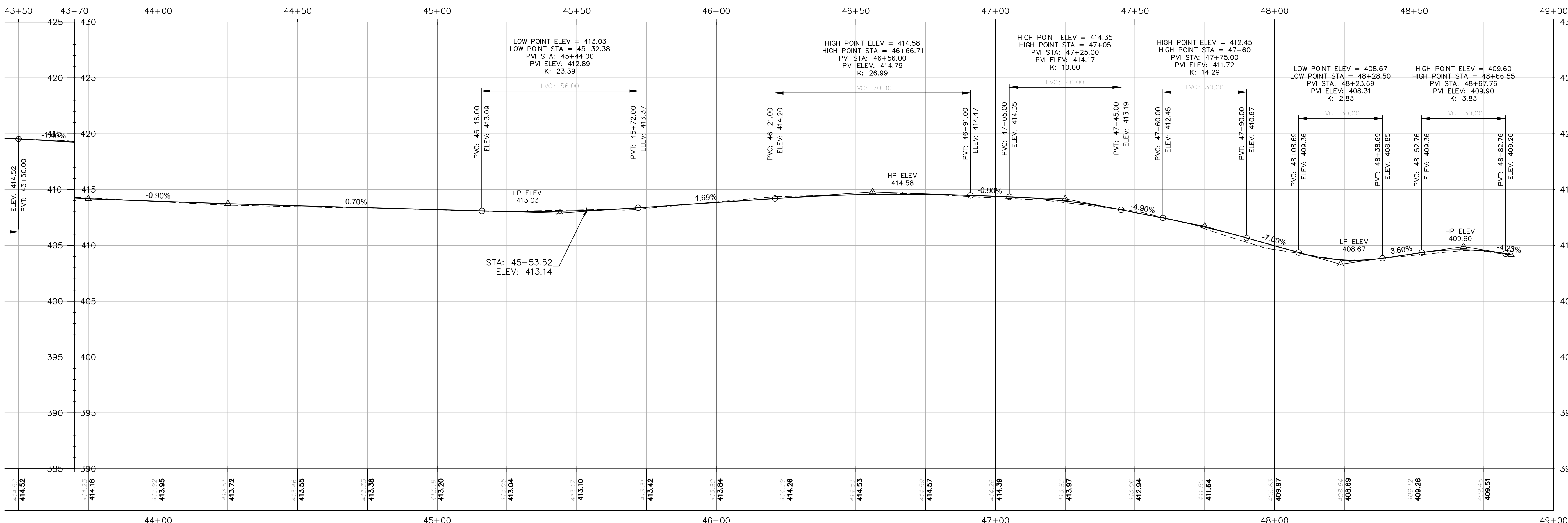
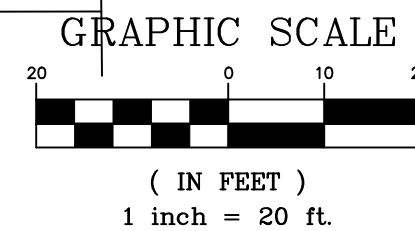
BERNARDS AVENUE NEIGHBORHOOD IMPROVEMENTS PHASE 2
BOROUGH OF BERNARDSVILLE
SOMERSET COUNTY
NEW JERSEY

SHEET
11 of 21

DATE: 12/20/2022	PROJECT NO.: 21B1V105
REVISION:	



PLAN
SCALE: 1"=20'



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

SCALE: 1"=20'
SCALE: 1"=5'

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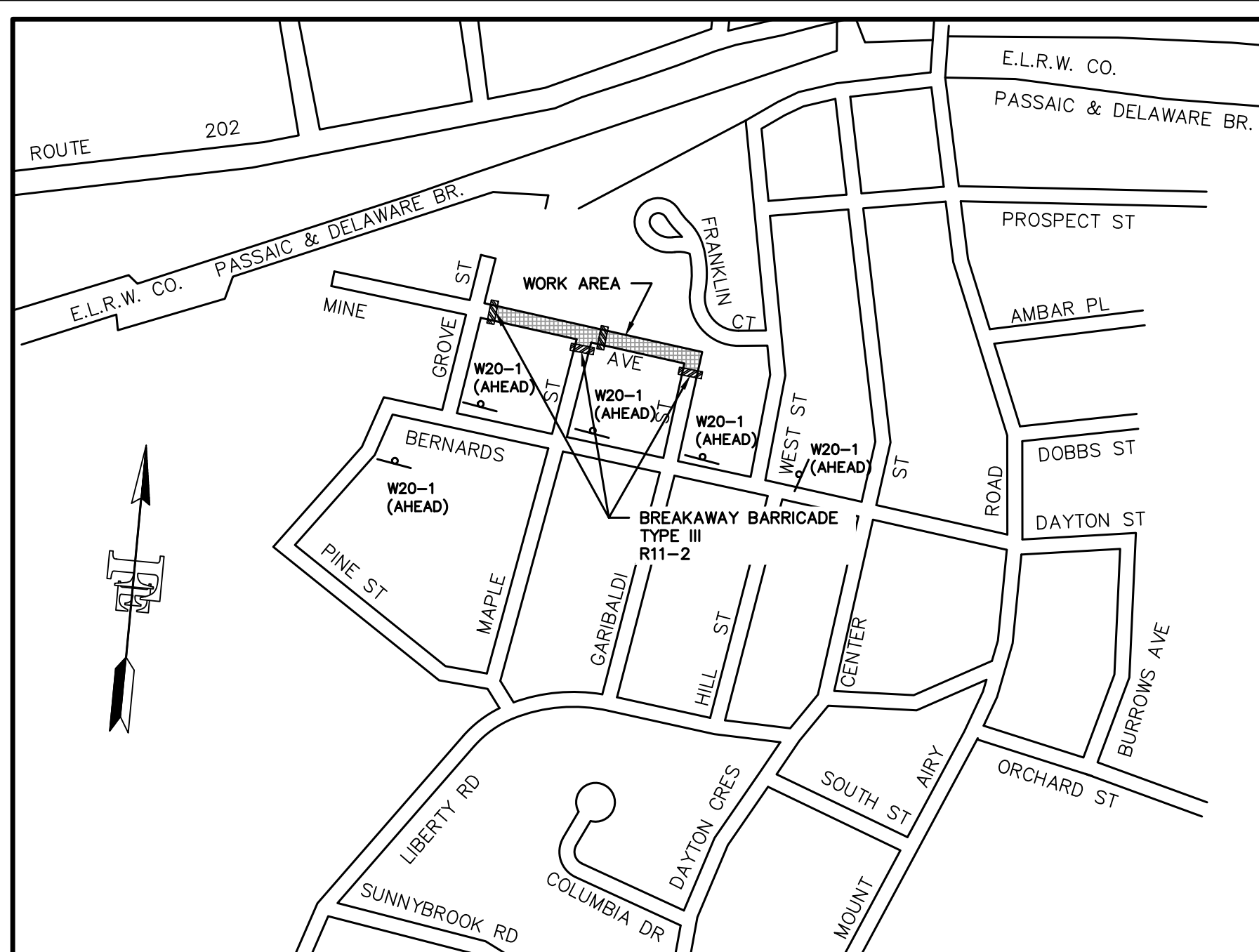
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GRADE PLAN AND PROFILE
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(STA 43+50 TO STA 48+85)

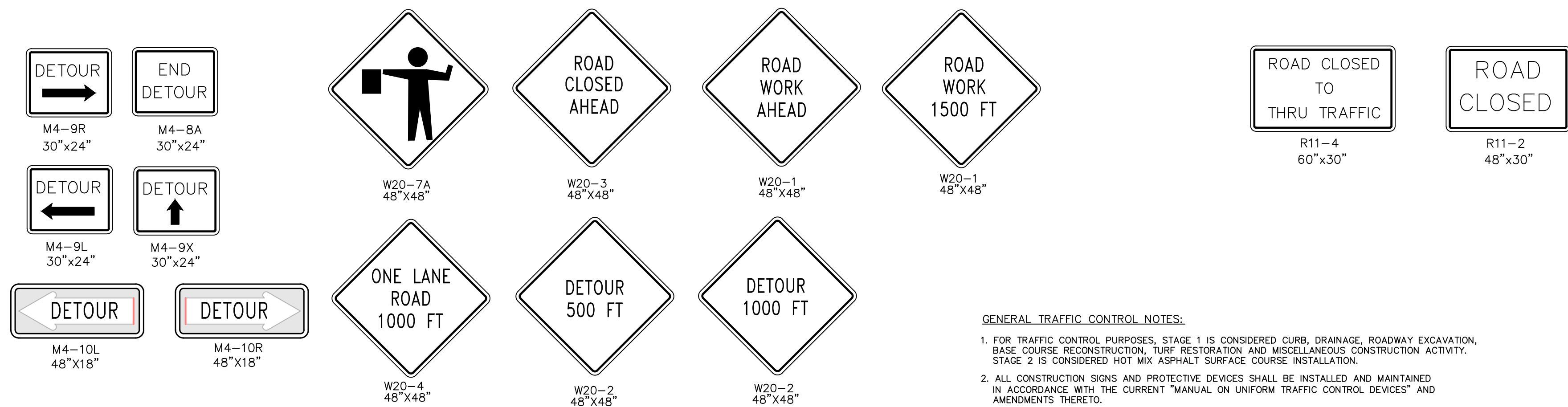
BERNARDS AVENUE NEIGHBORHOOD IMPROVEMENTS PHASE 2
BOROUGH OF BERNARDSVILLE
SOMERSET COUNTY
NEW JERSEY

SHEET
12 OF 21

DATE: 12/20/2022	PROJECT NO: 21B105
REVISION:	



TRAFFIC CONTROL PLAN
STAGE 1-SECTION 6 AND SECTION 7
NOT TO SCALE



NOTES:

TRAFFIC CONES SHALL BE
PREDOMINANTLY ORANGE IN
COLOR.

BASES MAY BE OF BREAKAWAY
BALLASTED TYPE

MINOR MANUFACTURER'S
VARIATIONS MAY BE
ACCEPTABLE UPON APPROVAL
OF THE ENGINEER.

3" - 4" SPACE FOR HANDLING

6" SILVER (WHITE) REFLECTORIZED
SHEETING, ASTM D-4986 TYPE III

2" SPACE

4" SILVER (WHITE) REFLECTORIZED
SHEETING, ASTM D-4986 TYPE III

28" MIN.

PLASTIC OR RUBBER,
MIN WEIGHT 7 LBS.

7 1/2" MIN O.D.

A diagram of a traffic barrel. The barrel has a height of 36 inches, indicated by a vertical dimension line on the right. The top opening is 18 inches wide, indicated by a horizontal dimension line at the top. The base of the barrel is 36 inches wide, indicated by a horizontal dimension line at the bottom. The barrel is shown with alternating light and dark gray horizontal bands.

TRAFFIC CONTROL SIGNS:

GENERAL NOTES:

1. DIMENSIONS, COLORS AND DETAILS OF VARIOUS SIZE SIGNS, AND ACCESSORY PANELS TO FOLLOW STANDARDS IN THE CURRENT "STANDARD HIGHWAY SIGN PUBLICATION" AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
2. LETTERS AND NUMERALS SHALL CONFORM TO THE CURRENT MANUAL, "STANDARD ALPHABETS FOR HIGHWAY SIGNS" U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

BACKING MATERIAL

1. ALUMINUM SHALL BE FLAT SHEET OF ALLOY 5052-H38 OR 6061-T6 ALLOY, 0.100" GAUGE.

TEMPORARY SIGN :

2. WOOD POSTS SHALL HAVE A UNIFORM CROSS-SECTION AND SHALL NOT EXCEED THE FOLLOWING DIMENSIONS FOR:

EXCEED THE FOLLOWING DIMENSIONS FOR:

SINGLE POST:	4"x6"
TWO POSTS:	3"x6" OR 4"x5"
THREE POSTS:	3"x5" OR

4"x6" WOOD POSTS SHALL BE MODIFIED BY DRILLING 1 1/2" DIAMETER HOLES, 4" AND 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTER LINE.

3. NO BRACING IS PERMITTED. VERTICAL CLEARANCES FOR SIGNS MOUNTED ON WOOD SUPPORTS SHALL BE 7' MINIMUM. EMBEDMENT DEPTH FOR THE WOOD POSTS SHALL NOT EXCEED 3.5 FEET.
4. STEEL POSTS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL FOR U-POST SIGN SUPPORT.
5. TEMPORARY SIGN SUPPORTS NOT MEETING THIS CRITERIA SHALL BE SHIELDED BY A LONGITUDINAL BARRIER OR IMPACT ATTENUATOR.

SIGN FACES

1. SIGN FACES SHALL BE REFLECTIVE SHEETING, TYPE II

FASTENERS

1. ALL SIGNS SHALL BE SECURELY FASTENED TO THEIR SUPPORTS WITH BOLTS, NUTS AND WASHERS IN ACCORDANCE WITH THE SPECIFICATIONS

BOLTS, NUTS AND WASHERS IN ACCORDANCE WITH THE SPECIFICATIONS.

[illegible]



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CERTIFICATE OF AUTHORIZATION 24GA27935400

TRAFFIC CONTROL

TRAFFIC CONTROL PLANS

PLANS

GROVE STREET,
MAPLE AVENUE

MAPLE AVENUE,
CARIBALDI STREET

GARIBALDI STREET
AND MINE AVENUE

BERNARDINO AVENUE

**BERNARDS AVENUE
NEIGHBORHOOD**

NEIGHBORHOOD IMPROVEMENTS

PHASE 2

BOROUGH OF BERNARDSVILLE
SOMERSET COUNTY

SOMERSET COUNTY
NEW JERSEY

SHEET

SHEET
13 OF 21

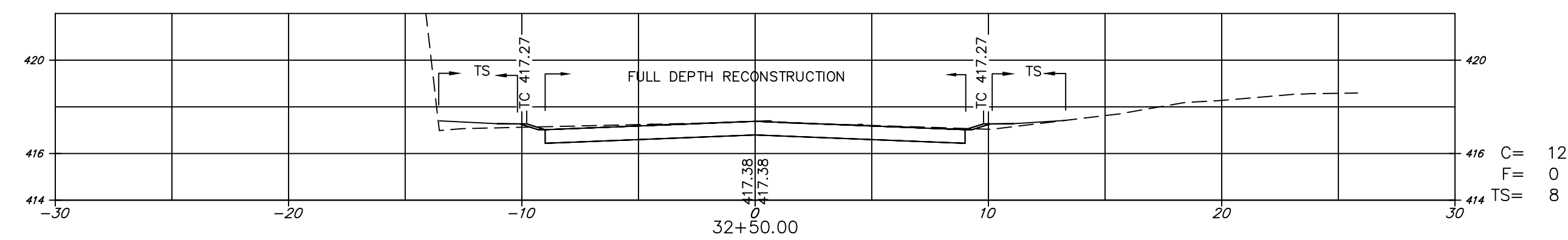
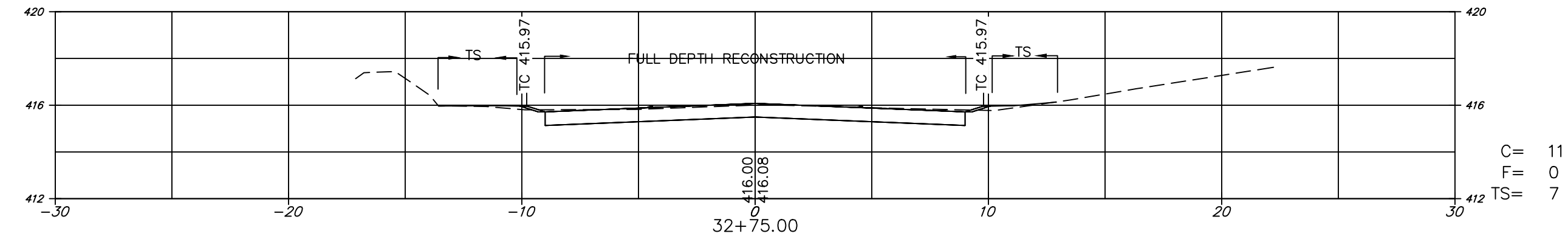
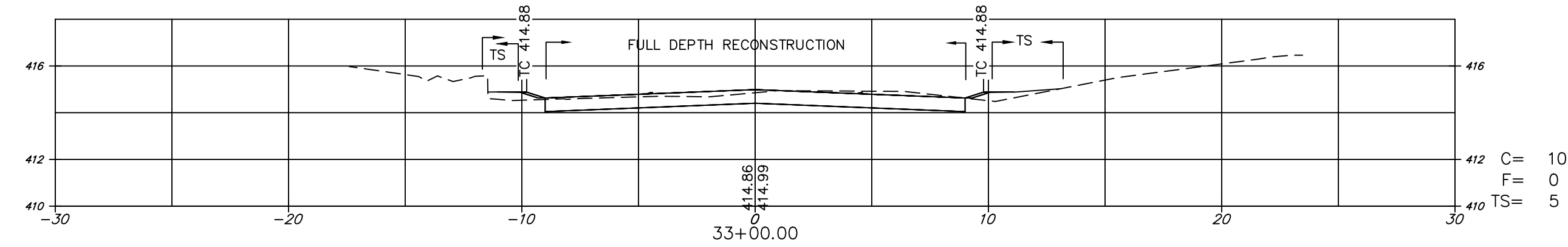
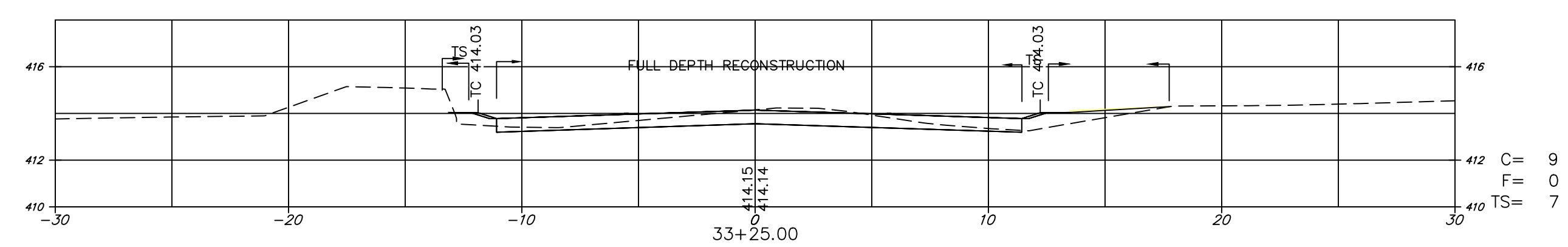
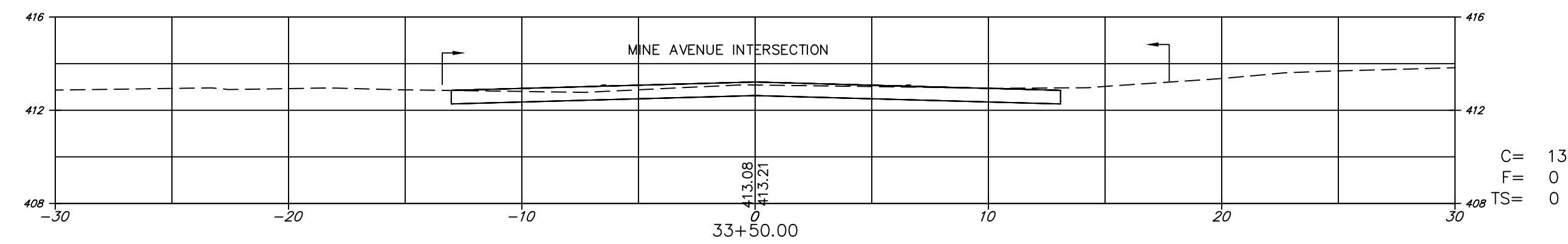
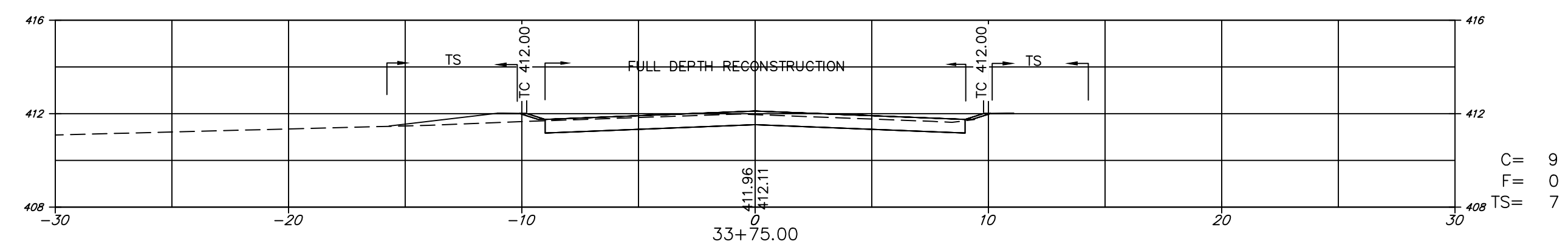
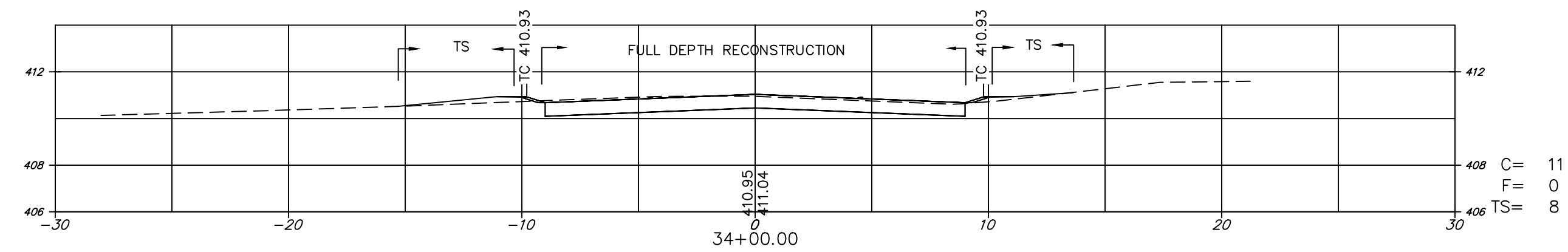
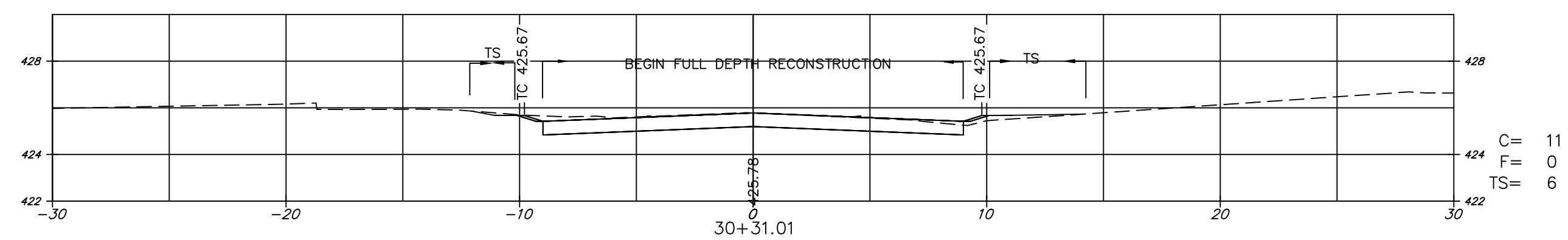
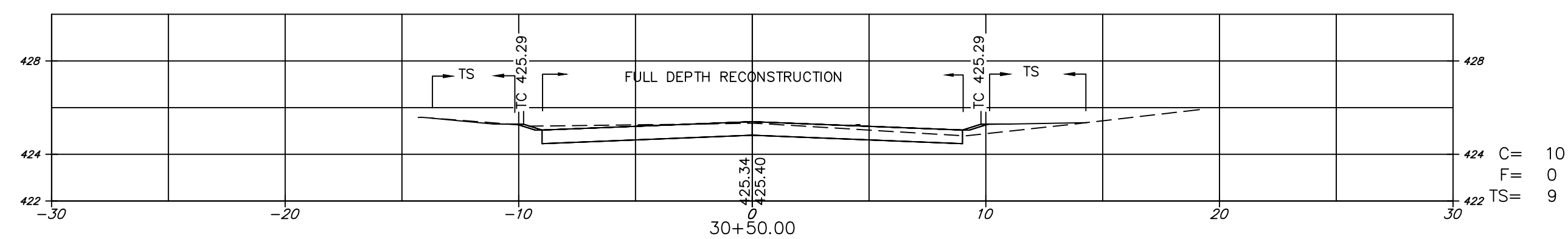
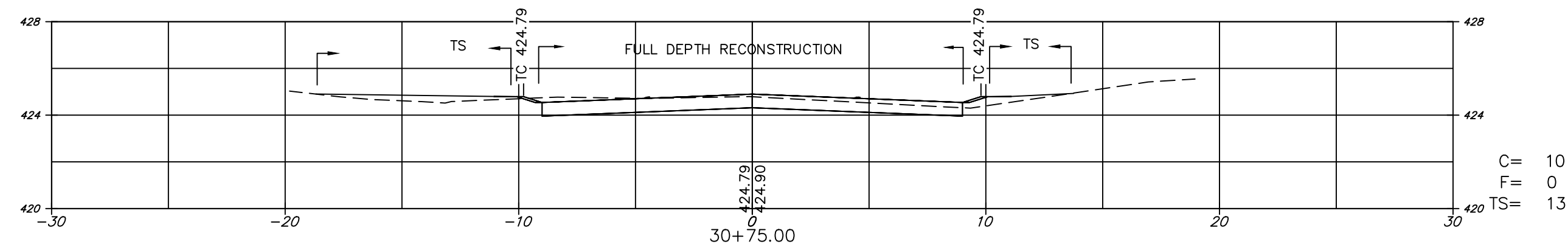
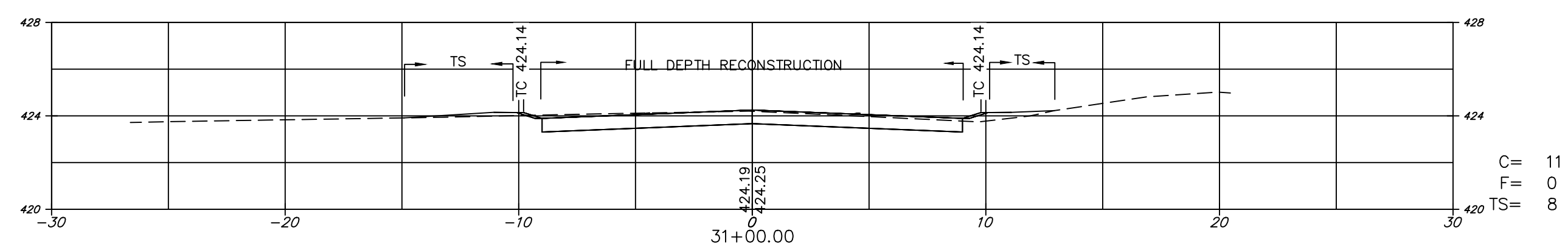
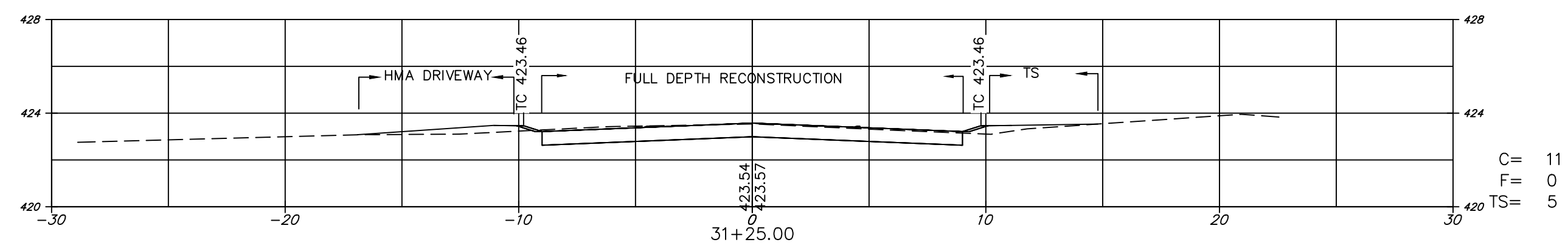
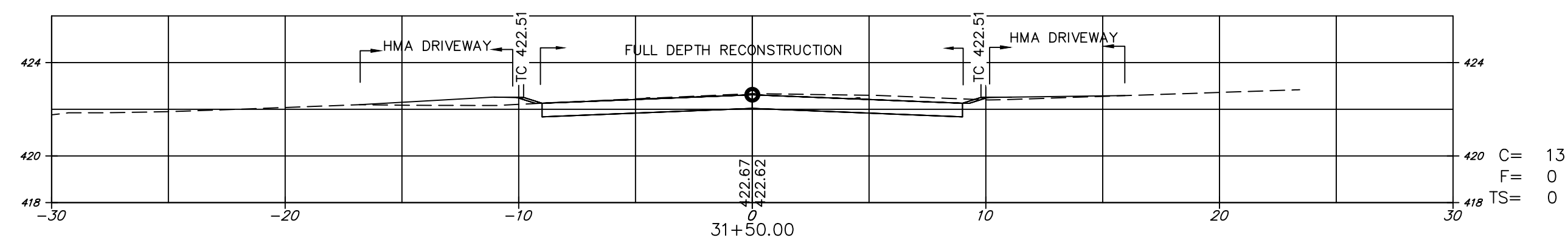
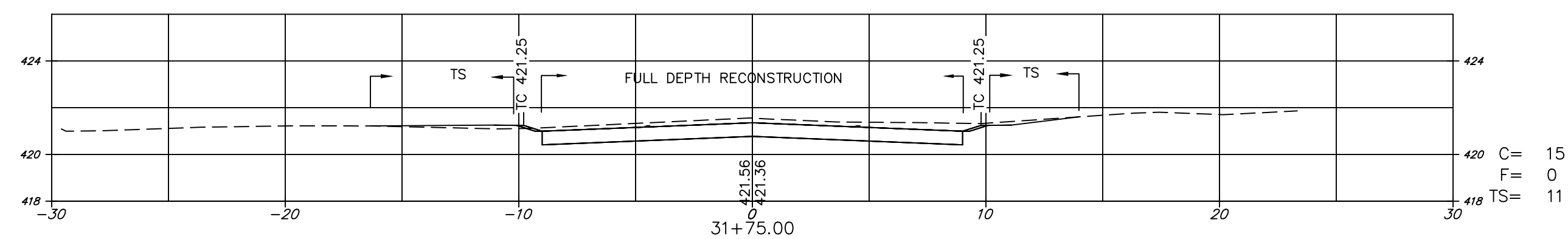
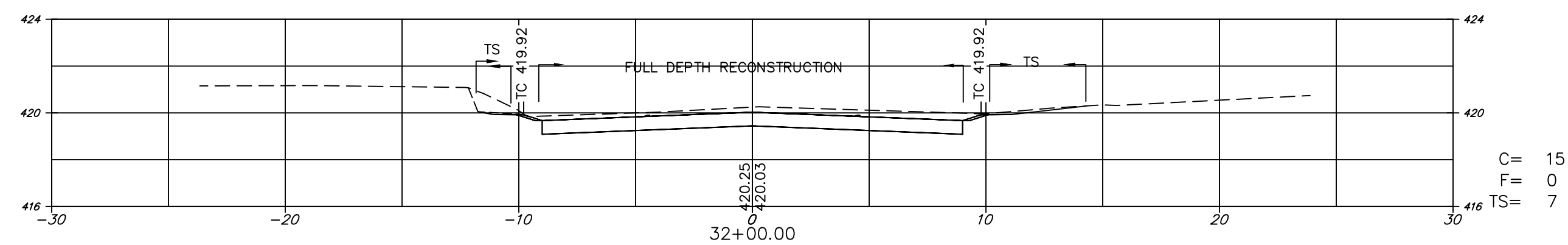
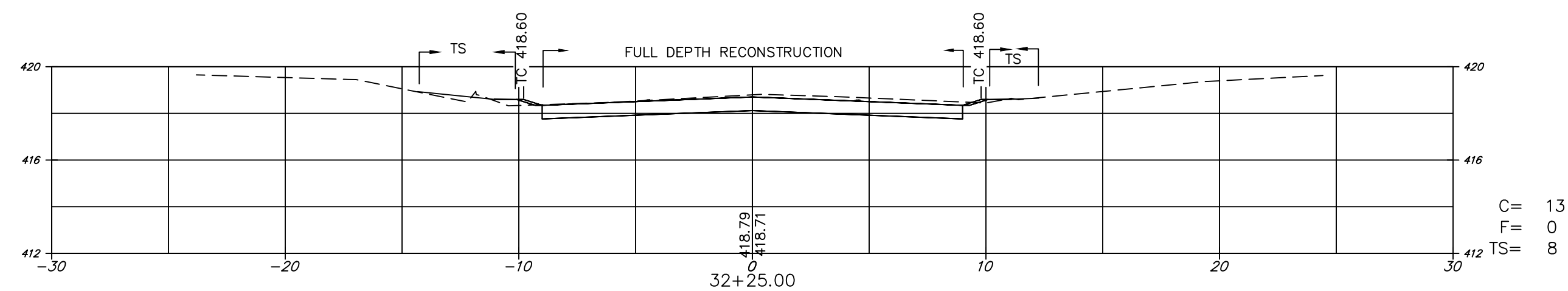
13 of 21

DATE: 12/20/2022	PROJECT NO:
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REVISION:	21BV105
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LEVEL 10000000	

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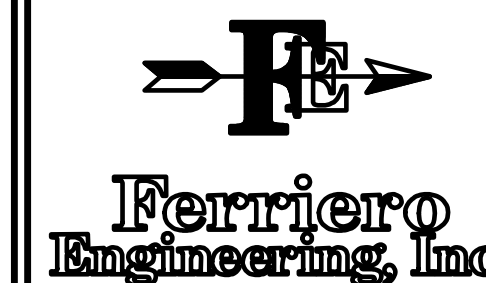


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180 MAIN STREET P.O. BOX 5
CHESTER, NEW JERSEY 07930
908-879-6209

CERTIFICATE OF AUTHORIZATION 24GA279354

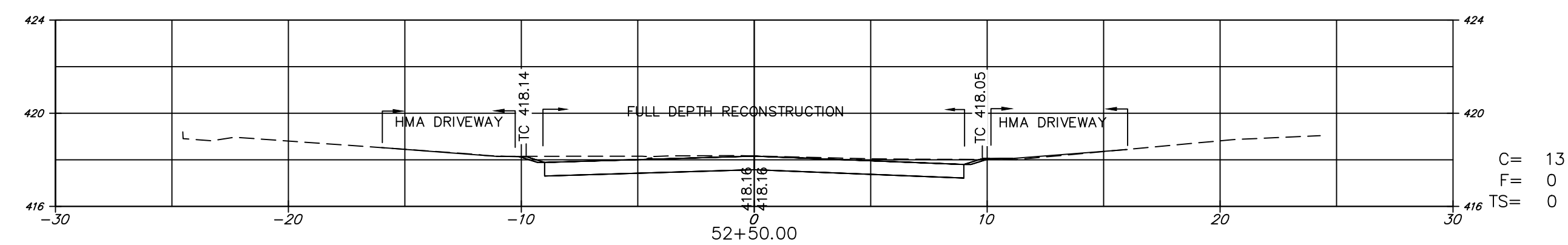
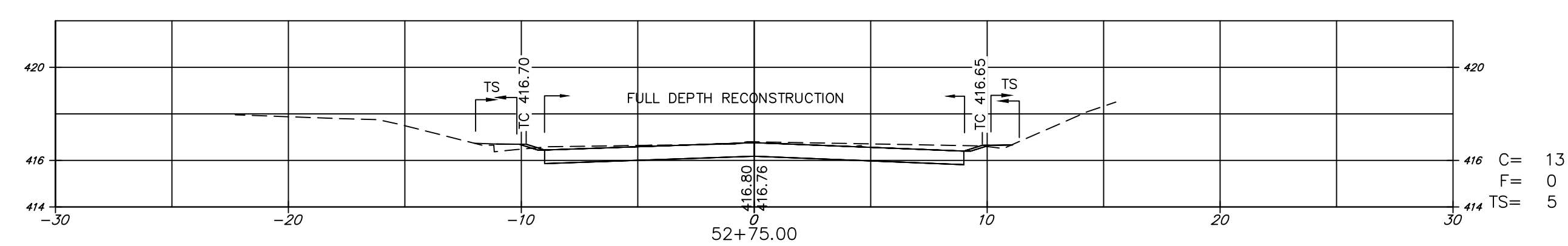
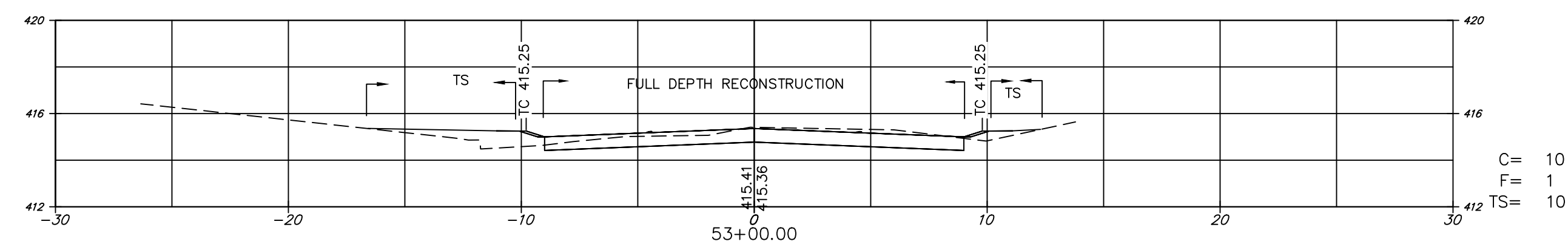
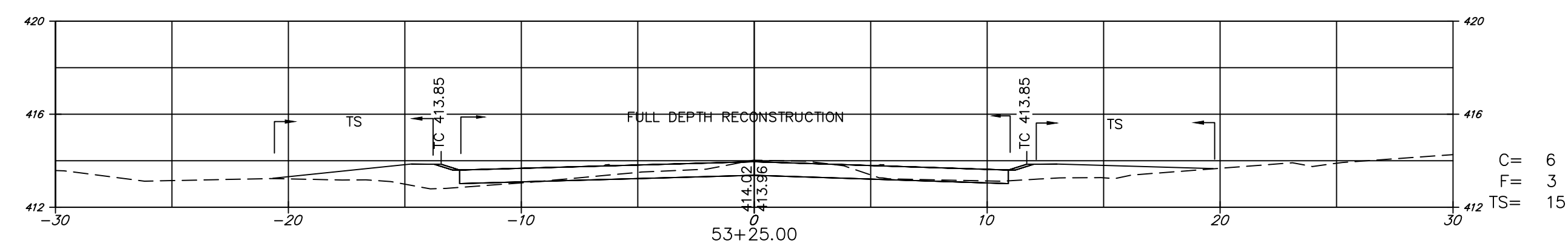
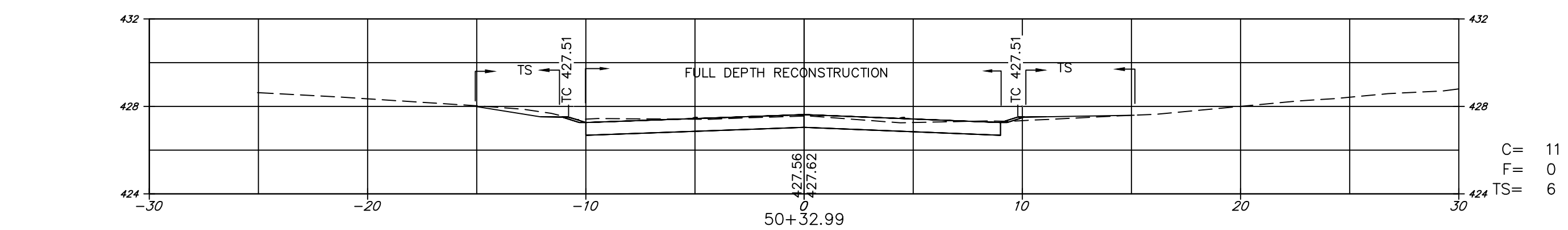
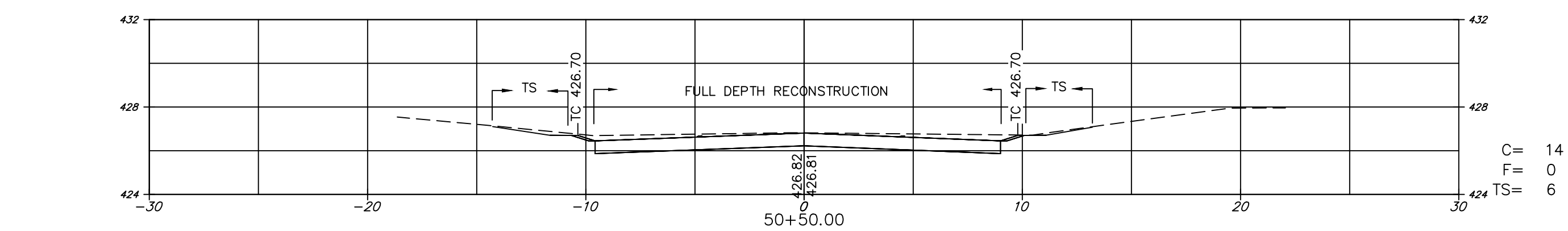
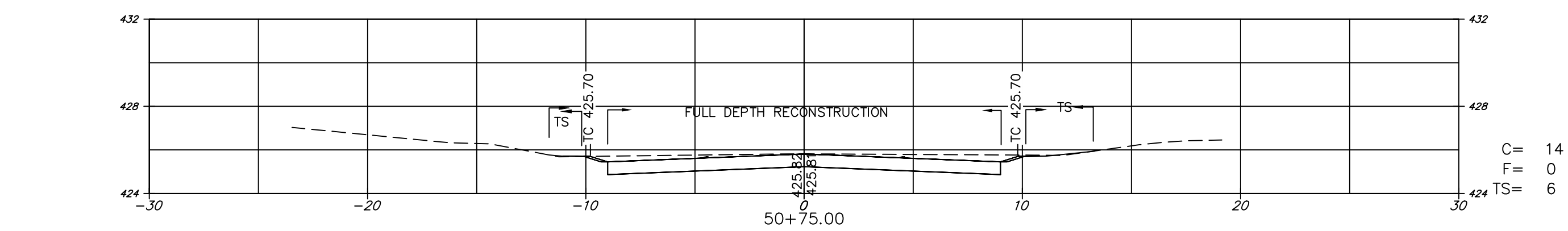
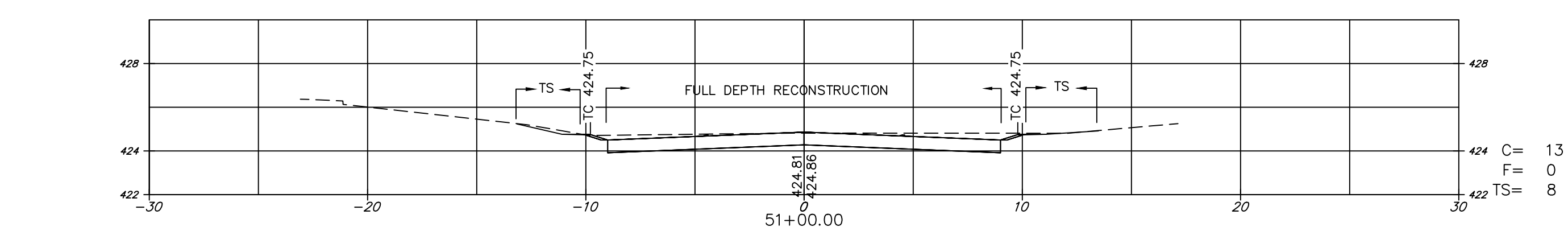
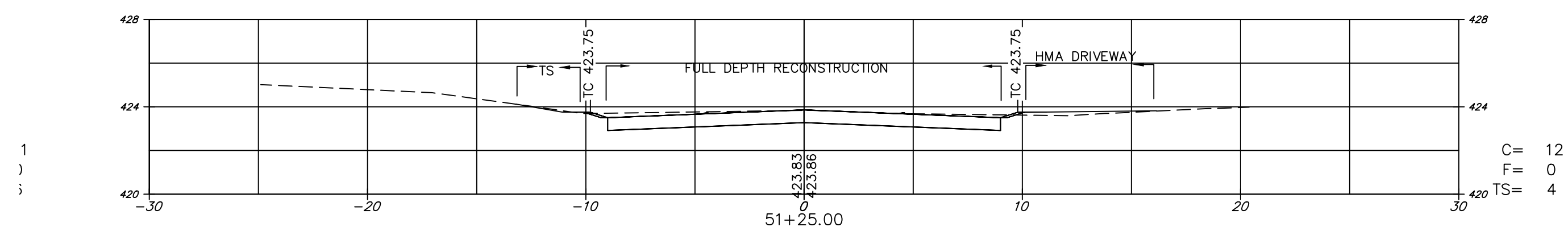
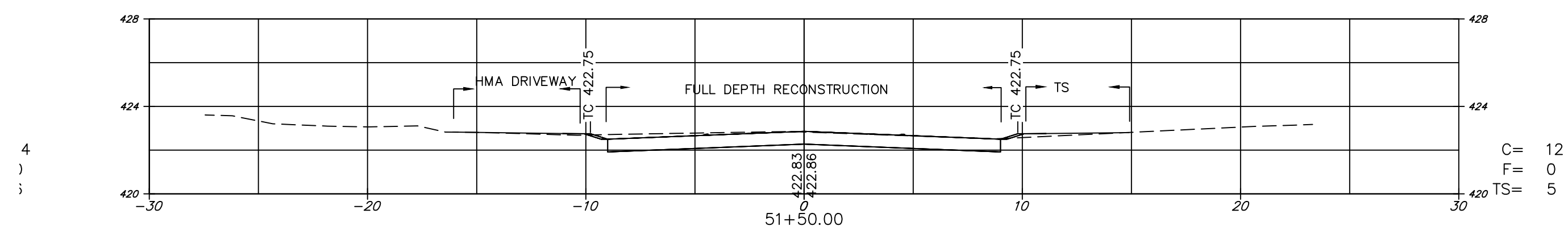
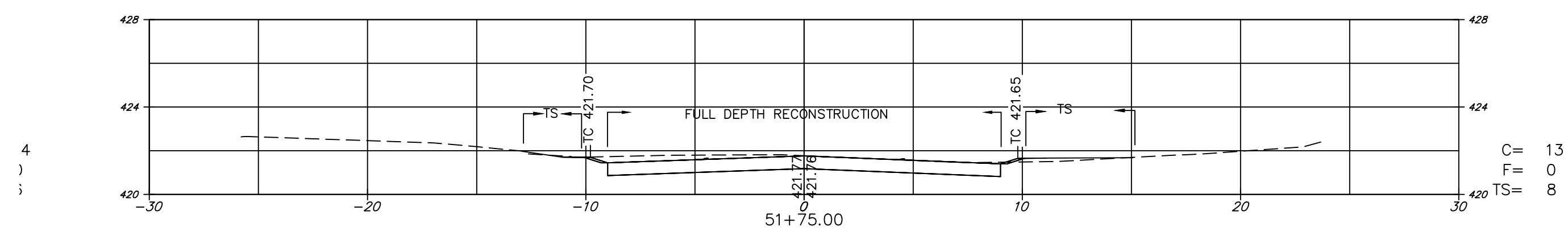
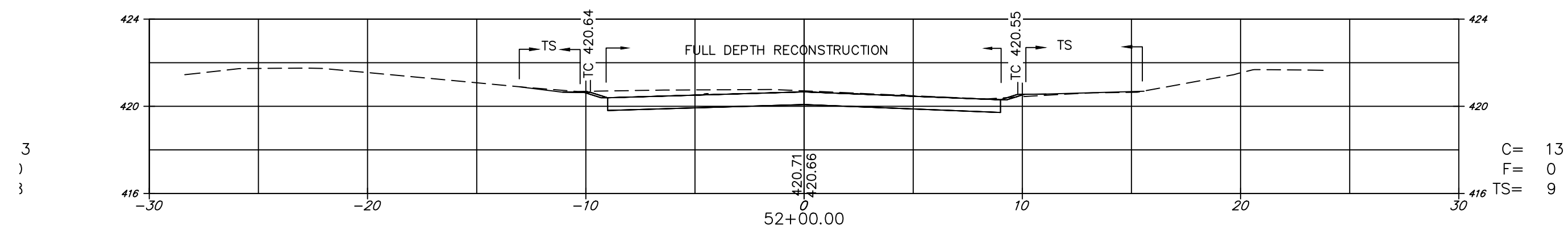
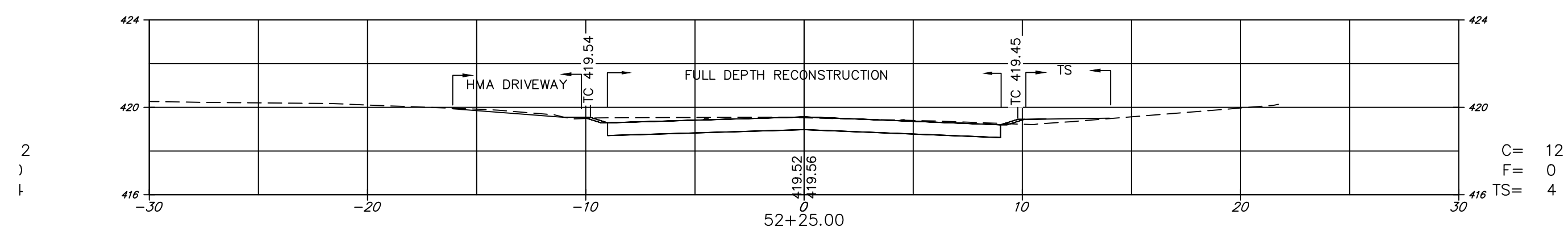
CROSS SECTIONS

GROVE STREET
(STA 30+31 TO 34+00)

**BERNARDS AVENUE
NEIGHBORHOOD
IMPROVEMENTS
PHASE 2**
BOROUGH OF BERNARDSVILLE
SOMERSET COUNTY
NEW JERSEY

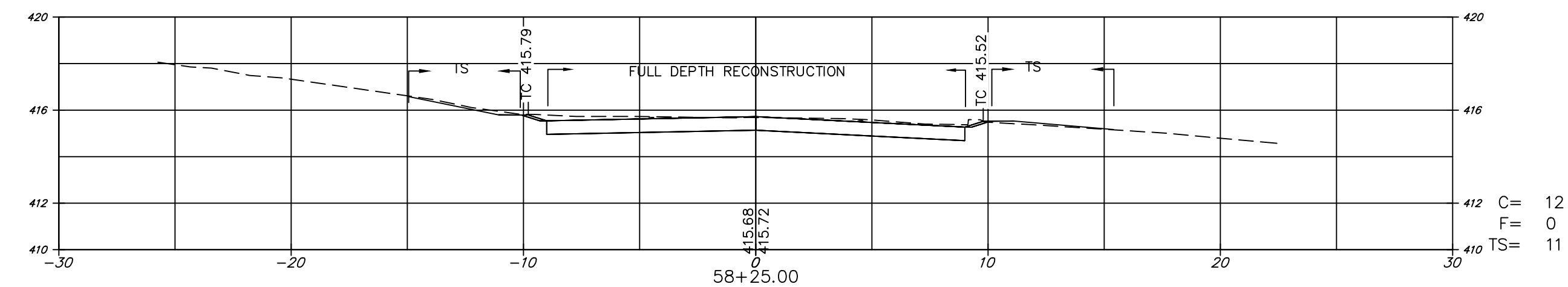
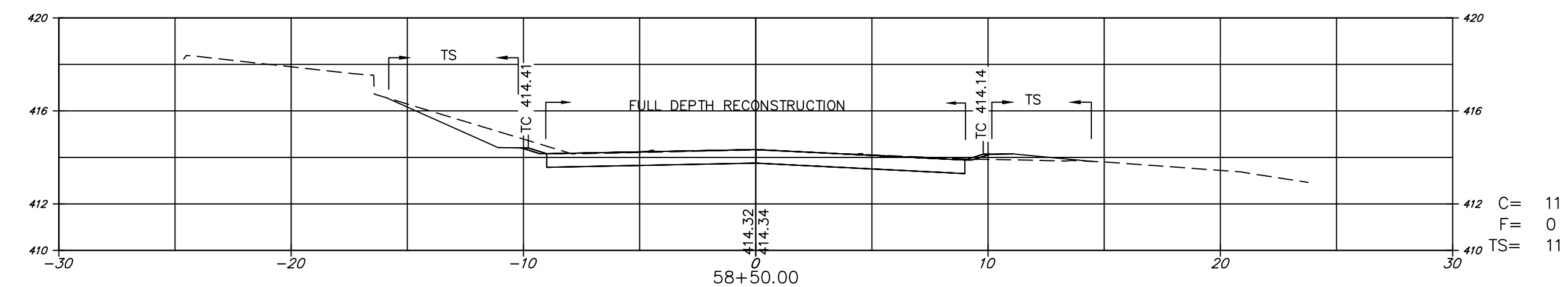
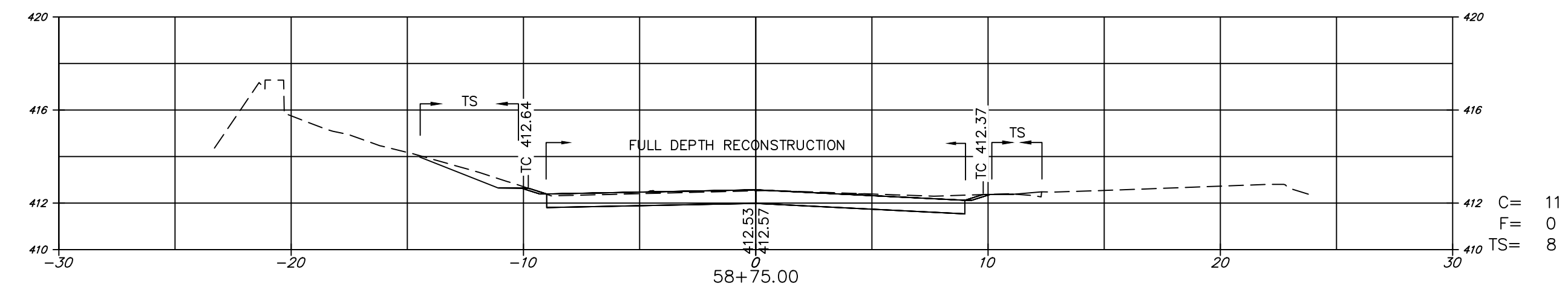
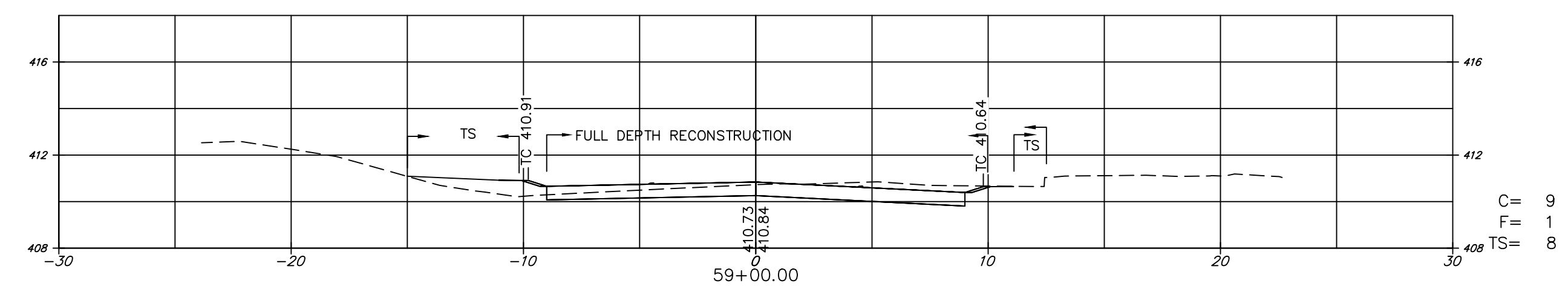
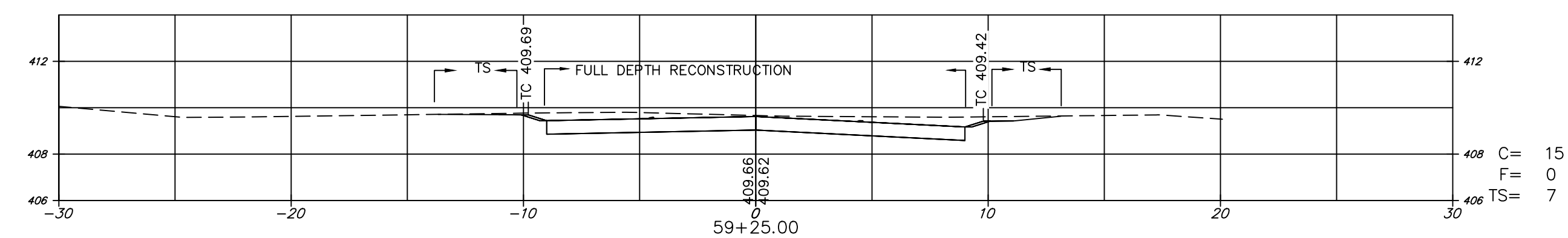
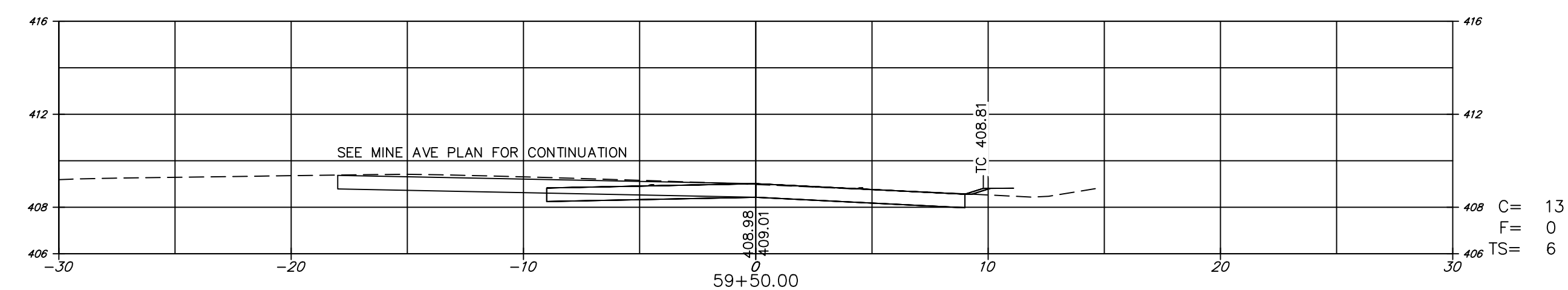
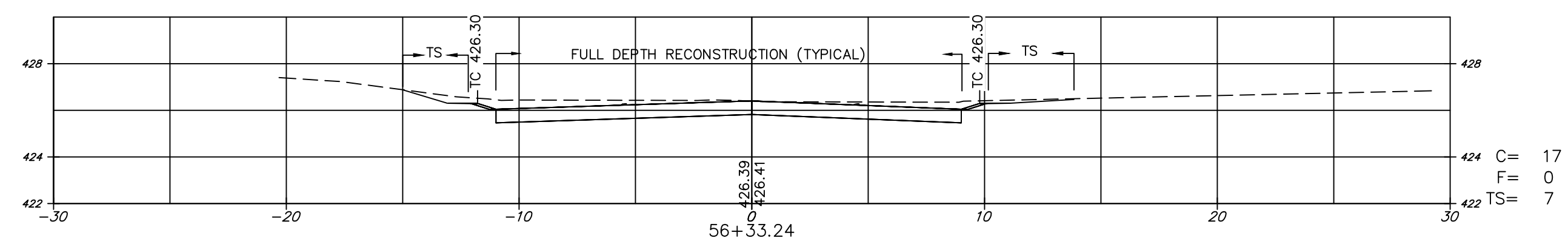
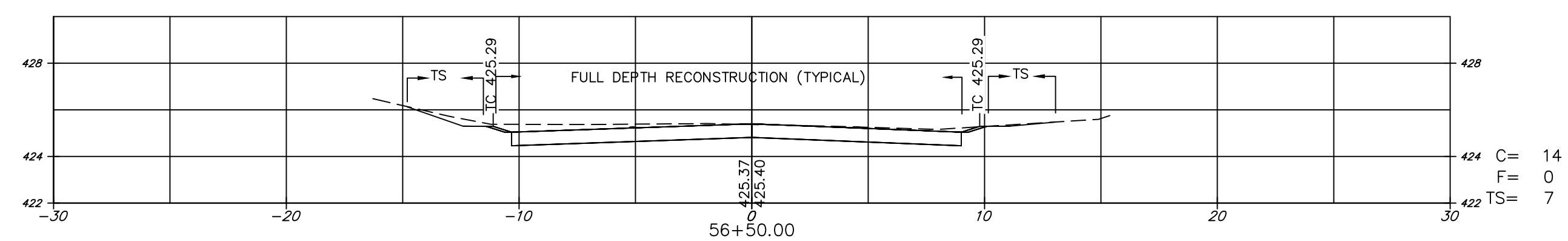
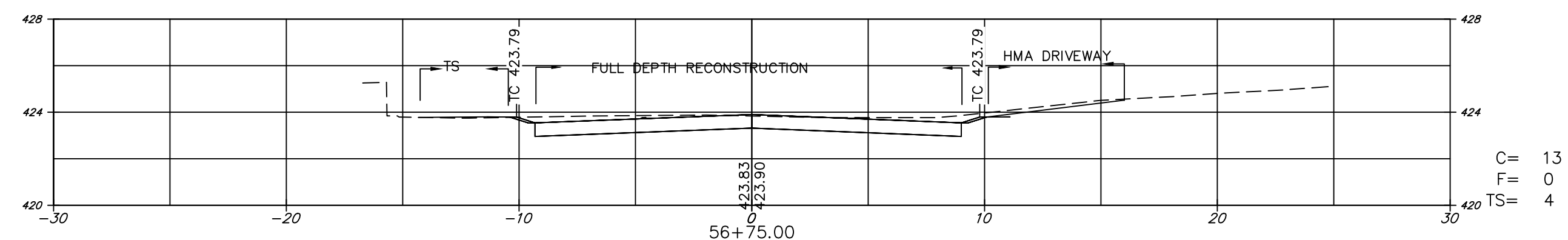
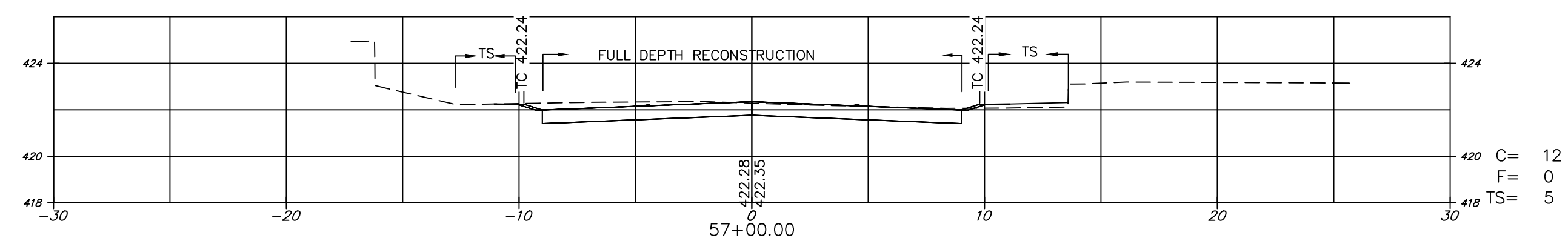
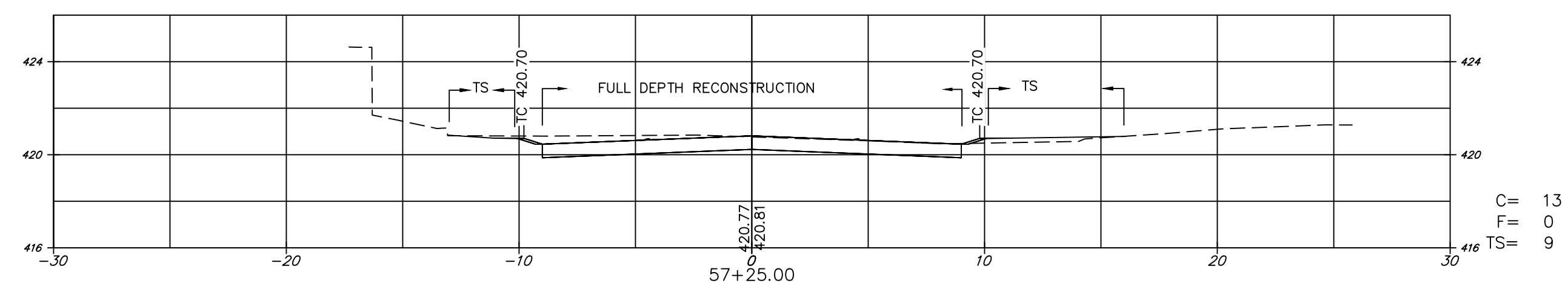
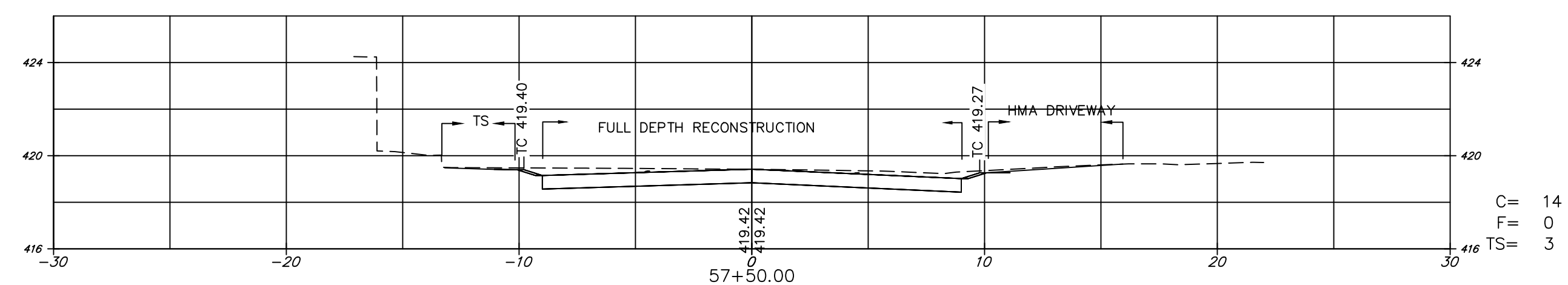
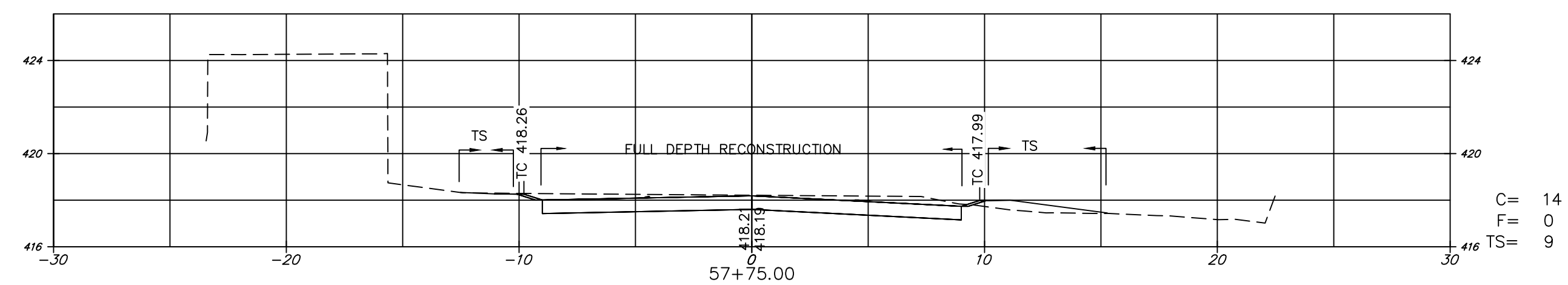
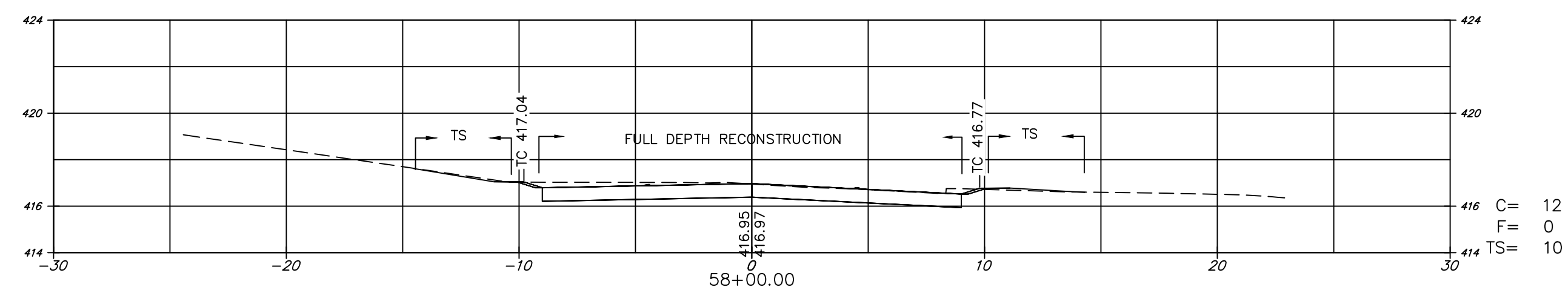
SHEET
14 OF 21

DATE: 12/20/2022	PROJECT M
REVISION:	21BV10



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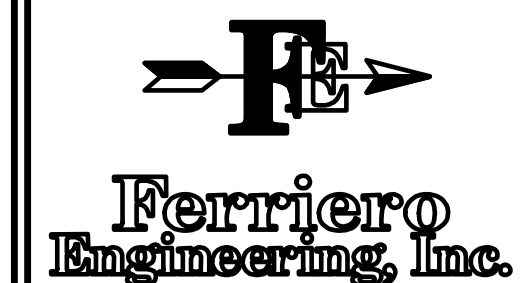
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NO.	DATE	REVISION
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RCB	PWF	AS NOTED



PAUL W. FERRIERO
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CERTIFICATE OF AUTHORIZATION 24GA27935400

CROSS SECTIONS

GARIBALDI STREET
(STA 56+33 TO 59+50)

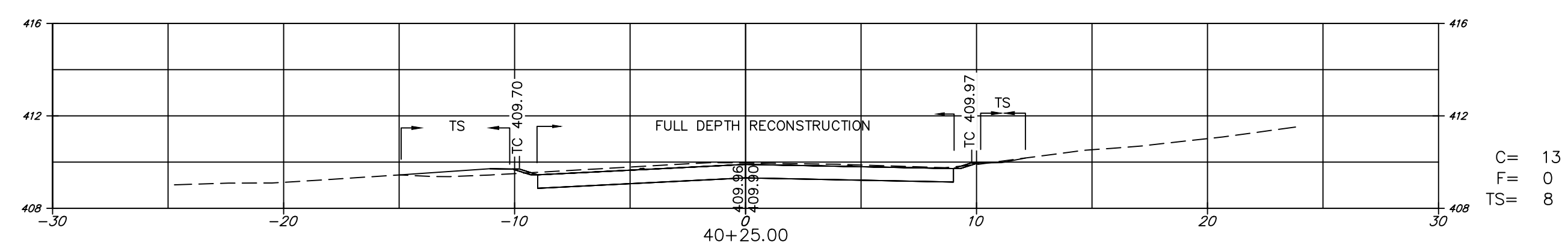
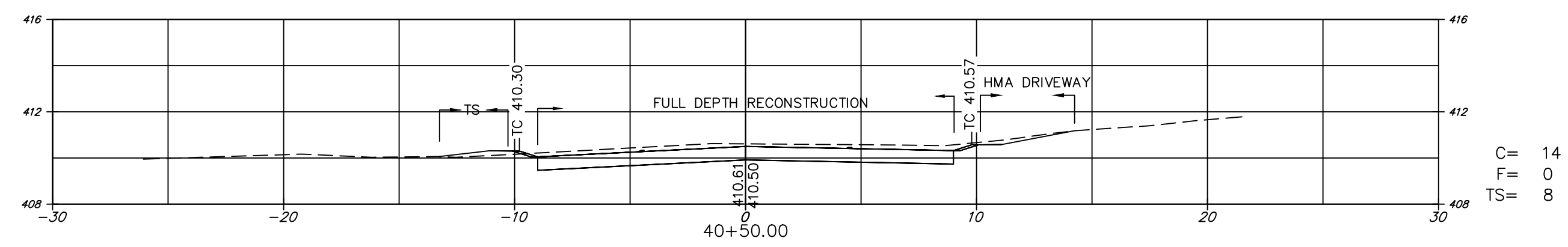
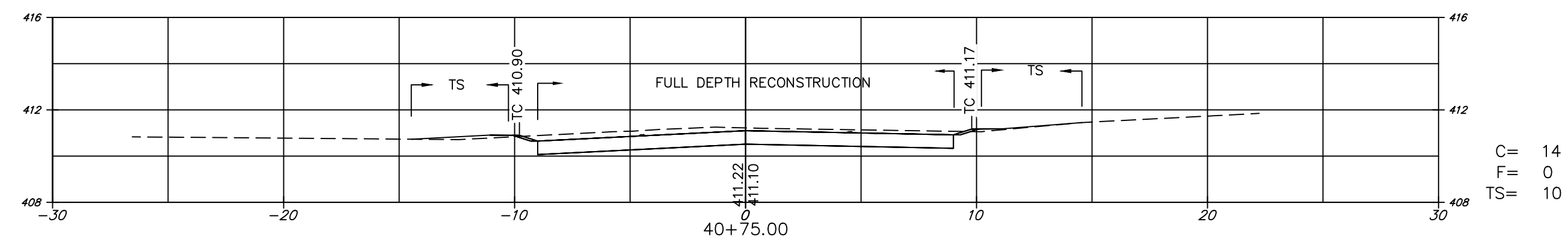
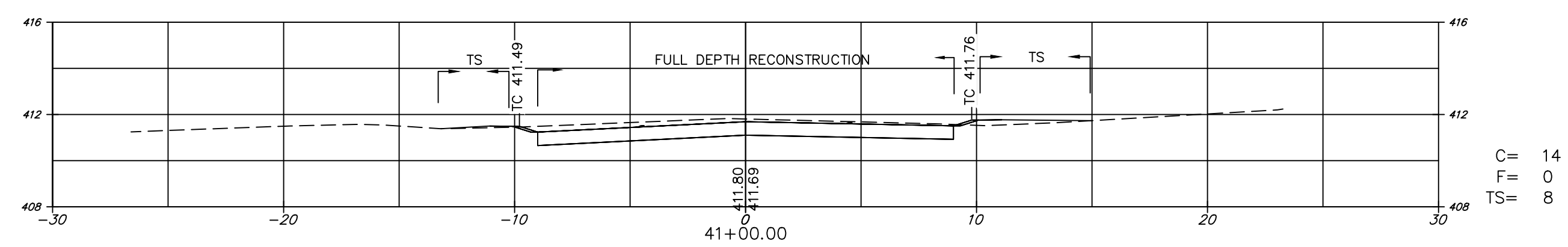
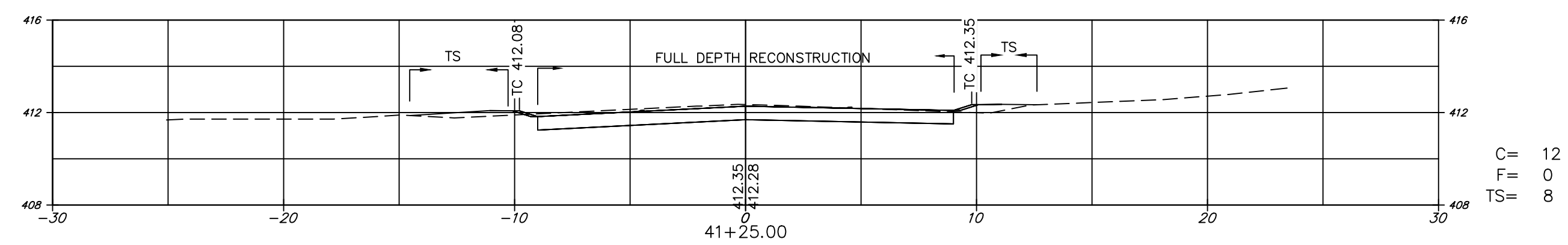
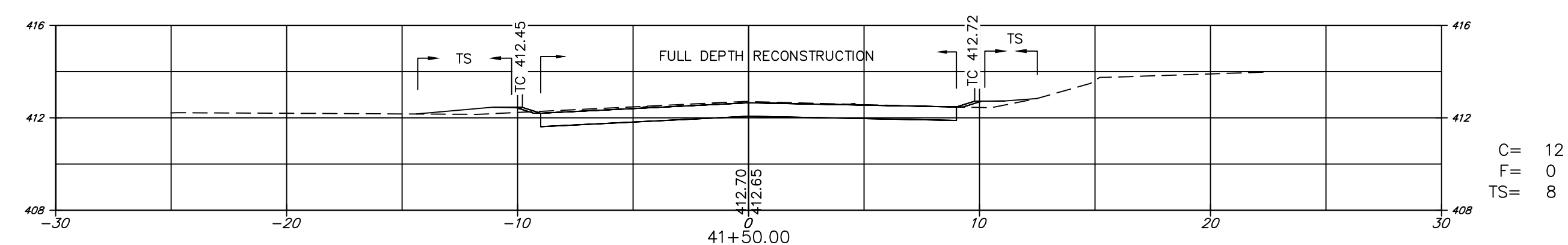
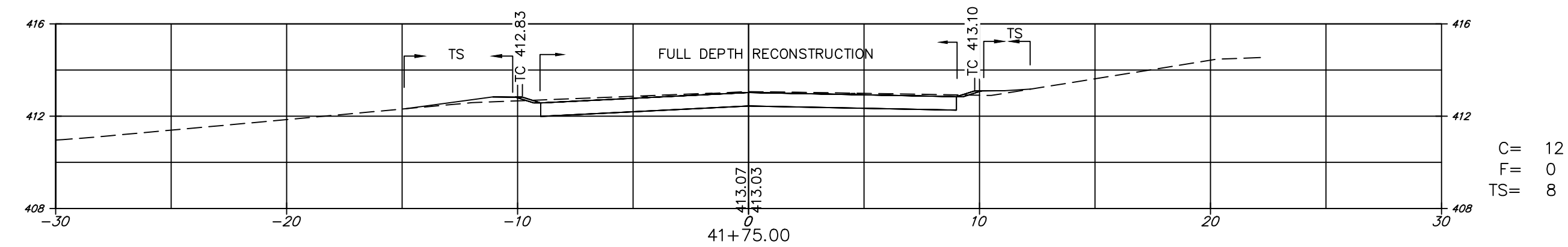
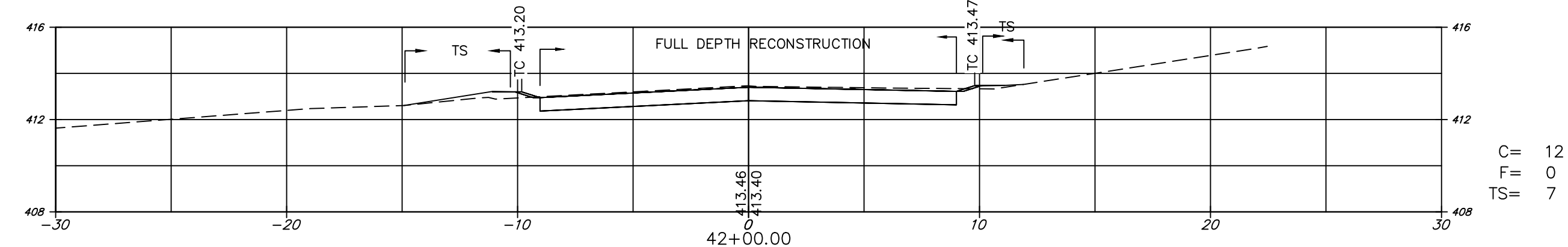
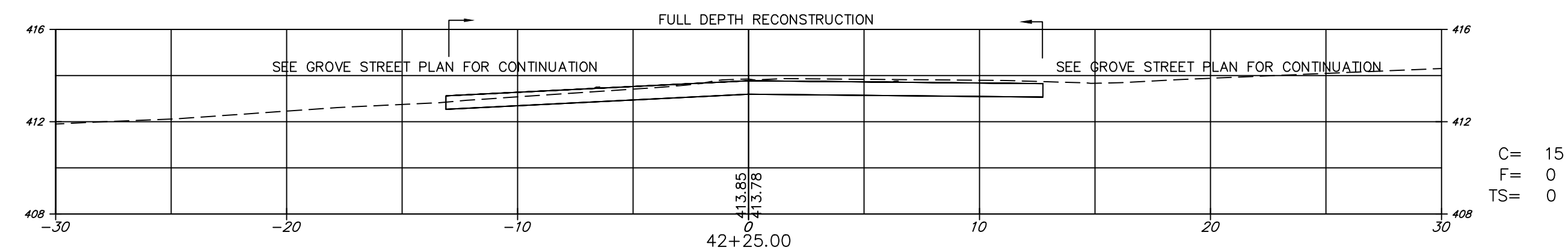
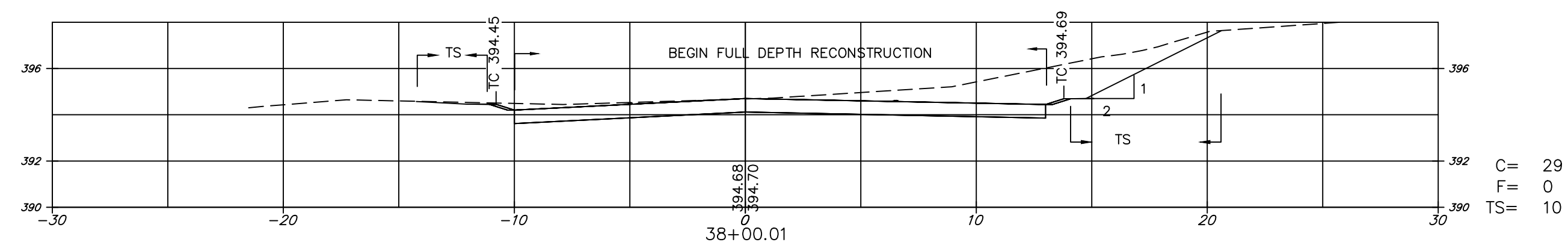
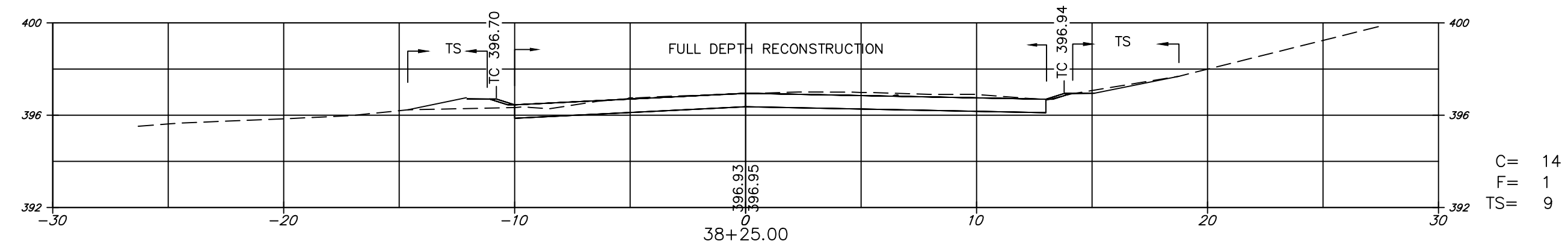
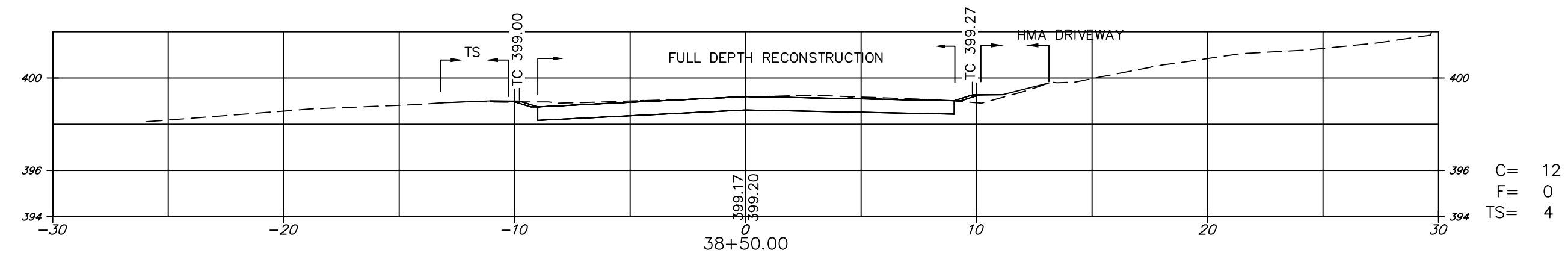
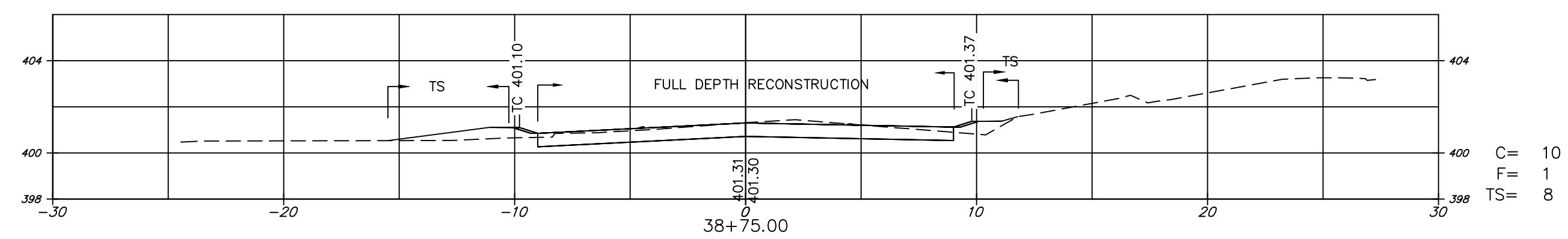
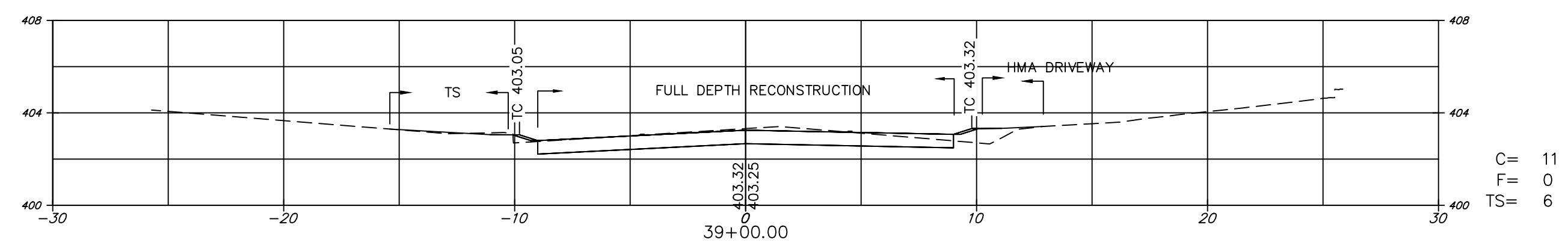
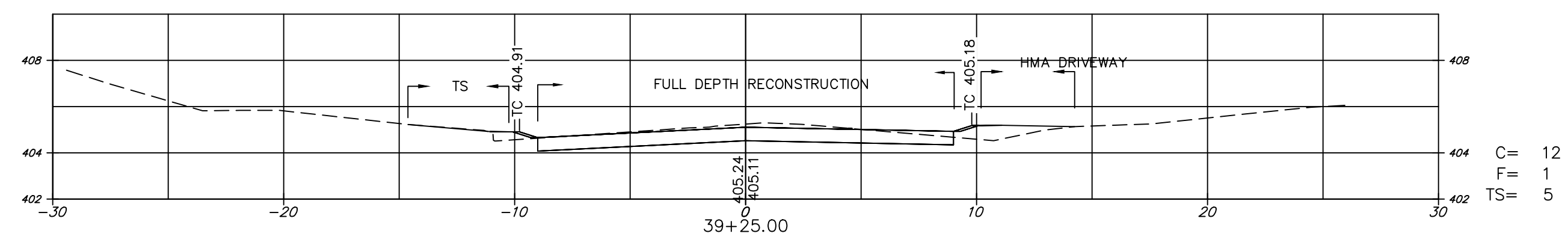
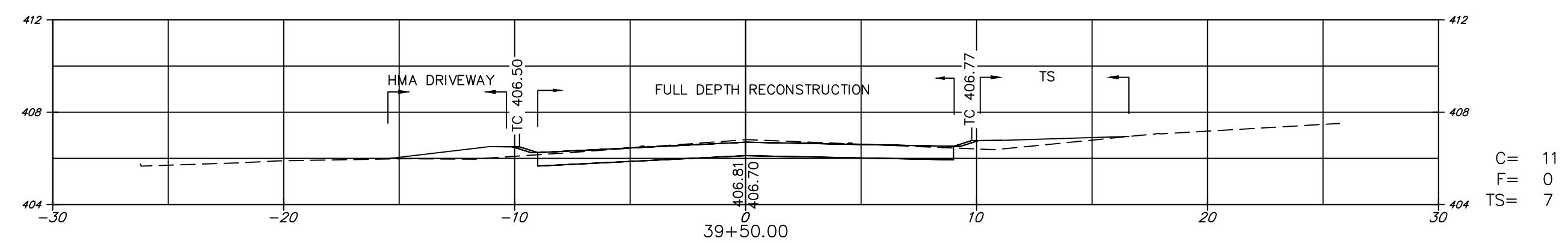
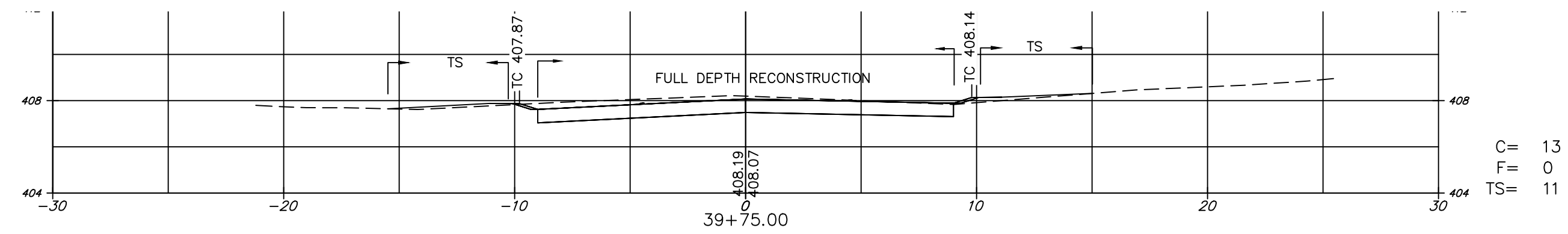
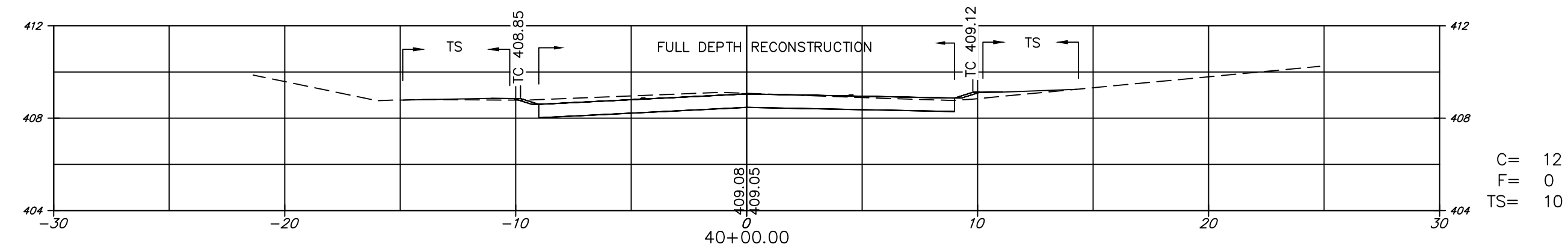
**BERNARDS AVENUE
NEIGHBORHOOD
IMPROVEMENTS
PHASE 2**

**BOROUGH OF BERNARDSVILLE
SOMERSET COUNTY
NEW JERSEY**

SHEET
17 OF 21

DATE: 12/20/2022	PROJECT NO: 21BV105
REVISION:	

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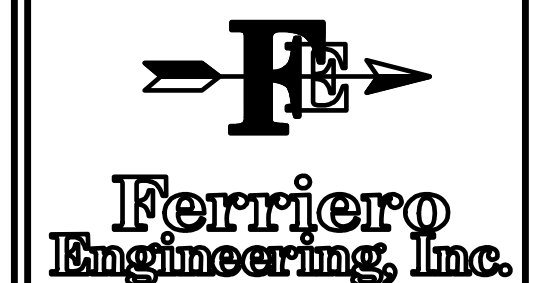


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NO.	DATE	REVISION
DRAWN BY:	CHECKED BY:	SCALE:
RCB	PWF	AS NOTED



 PAUL W. FERRIERO
 N.J. PROFESSIONAL ENGINEER
 NO. GE32978



180 MAIN STREET P.O. BOX 571
CHESTER, NEW JERSEY 07930
908-879-6209

CERTIFICATE OF AUTHORIZATION 24GA27935400

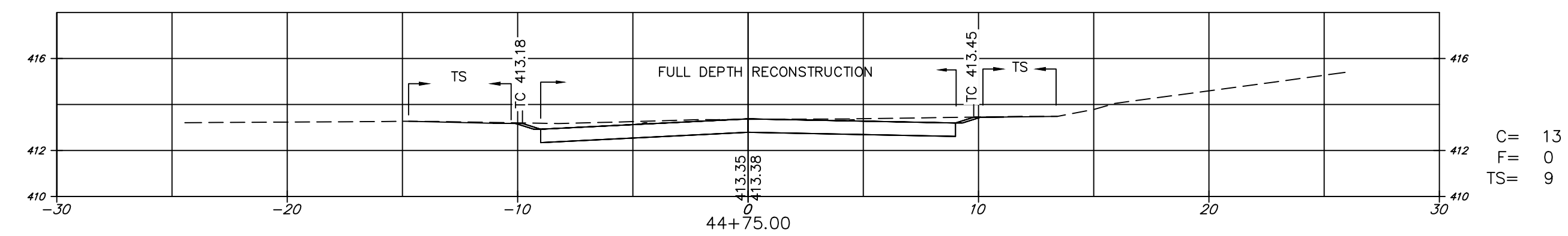
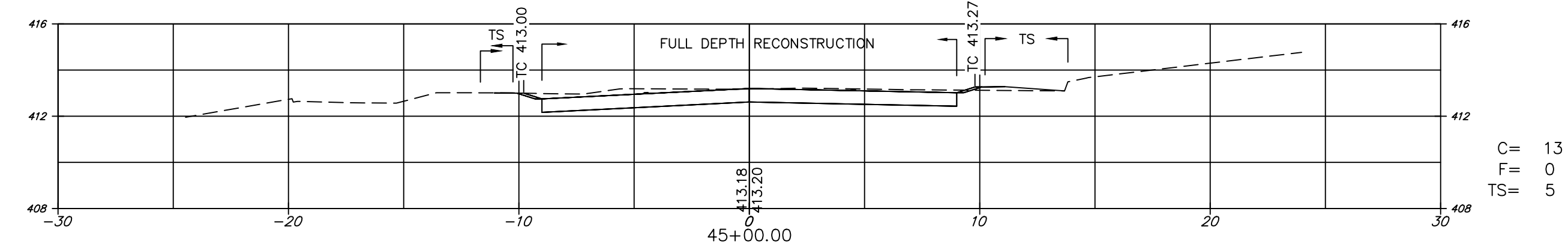
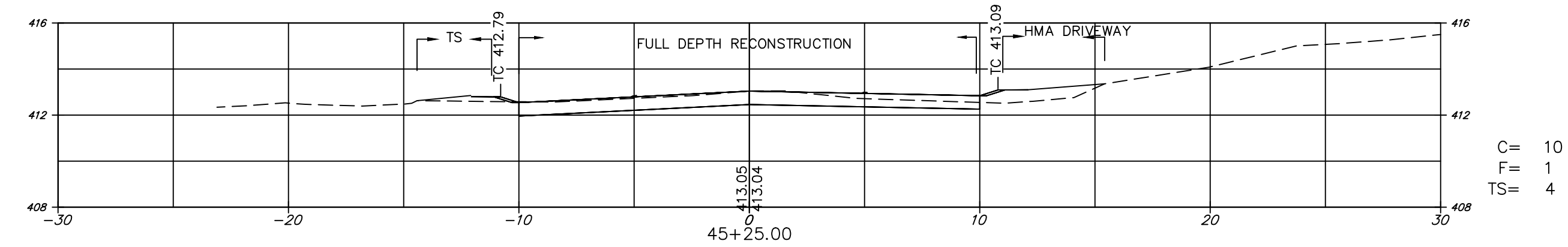
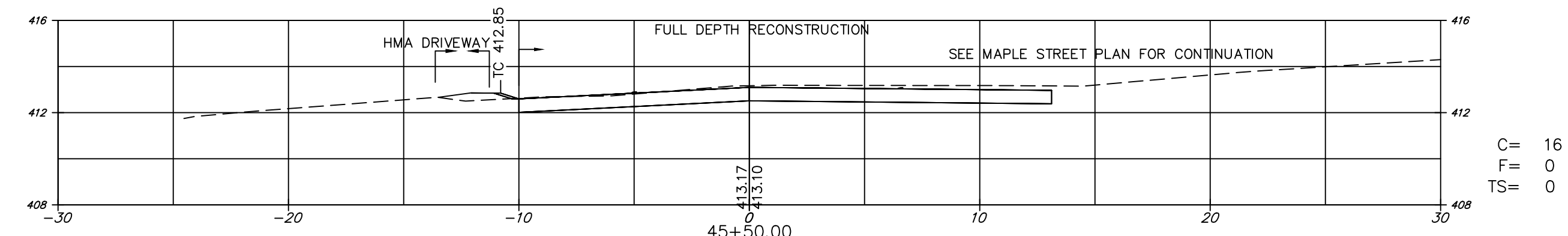
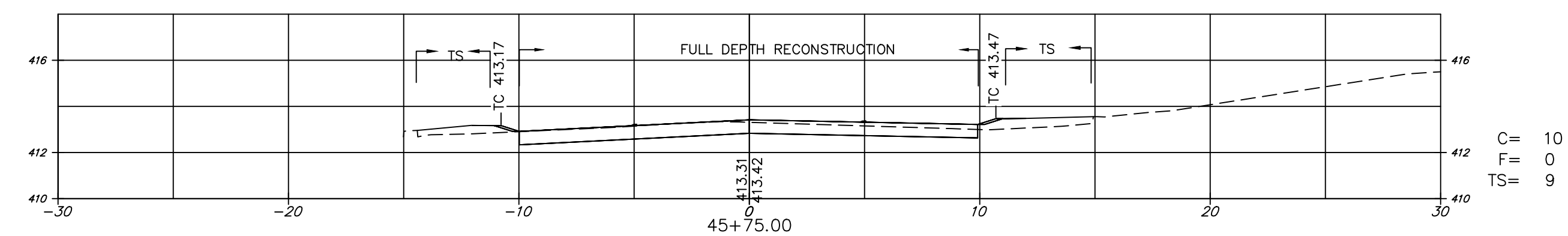
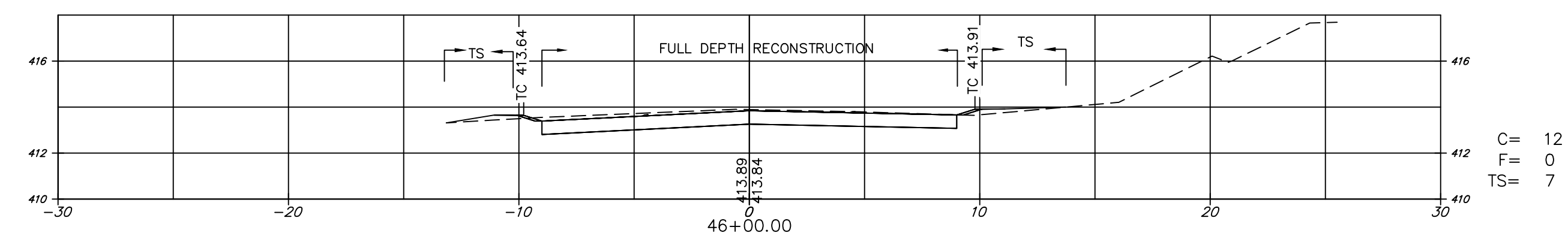
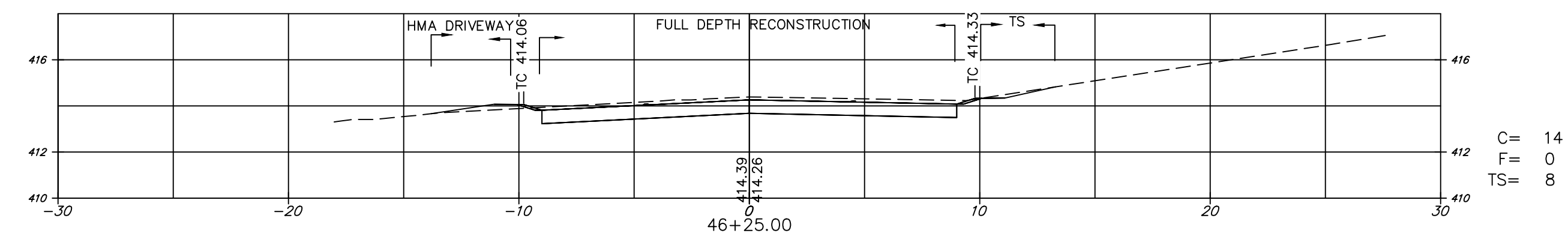
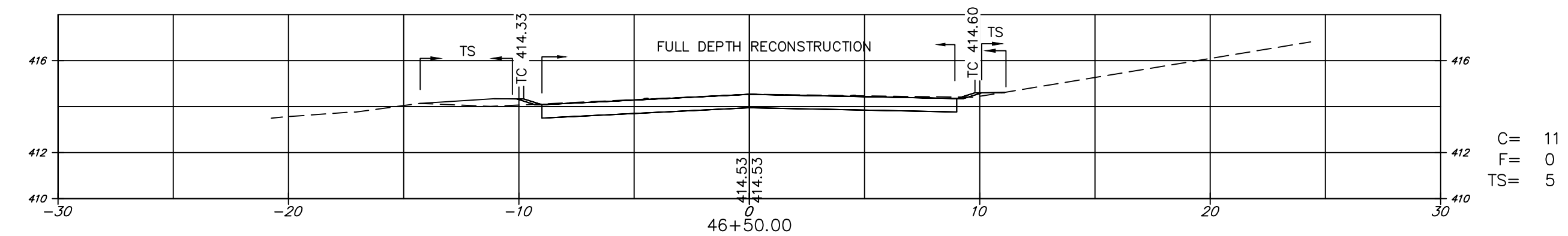
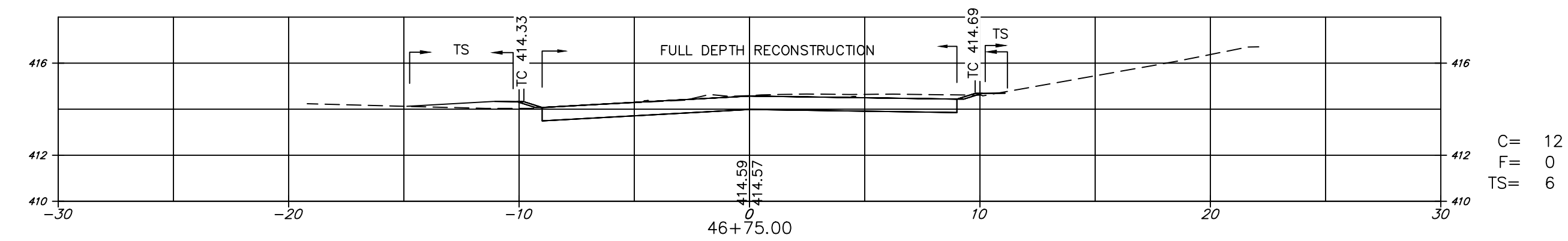
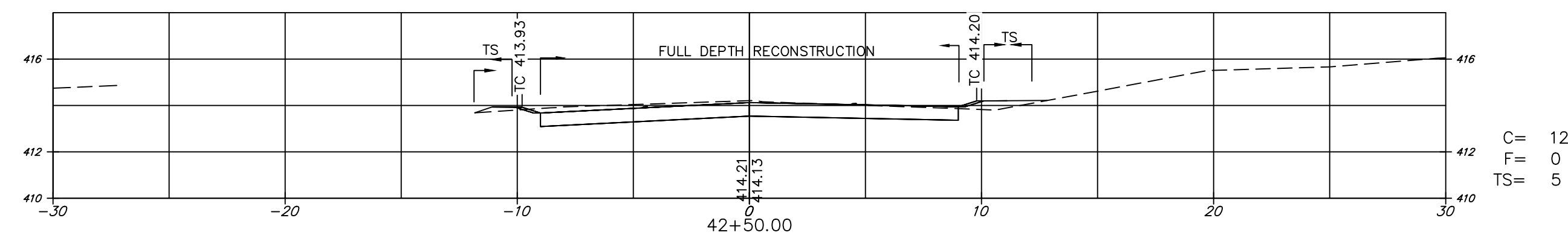
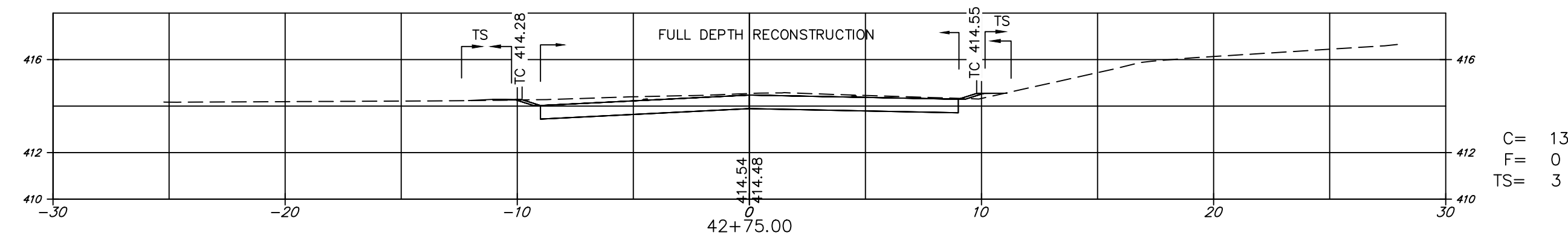
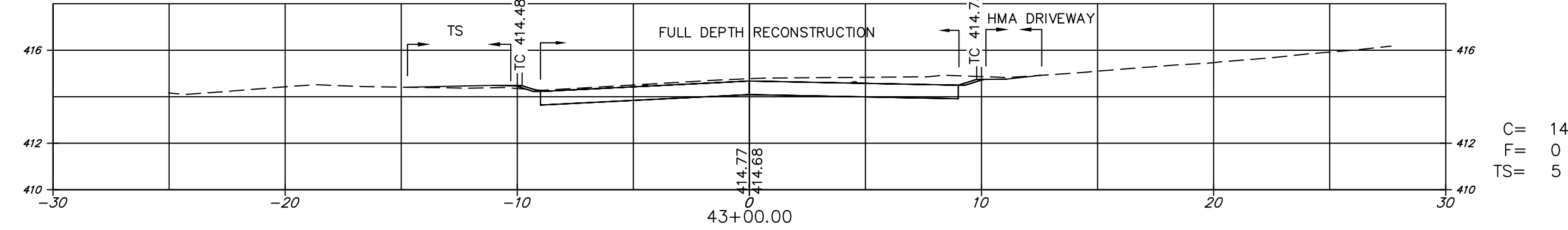
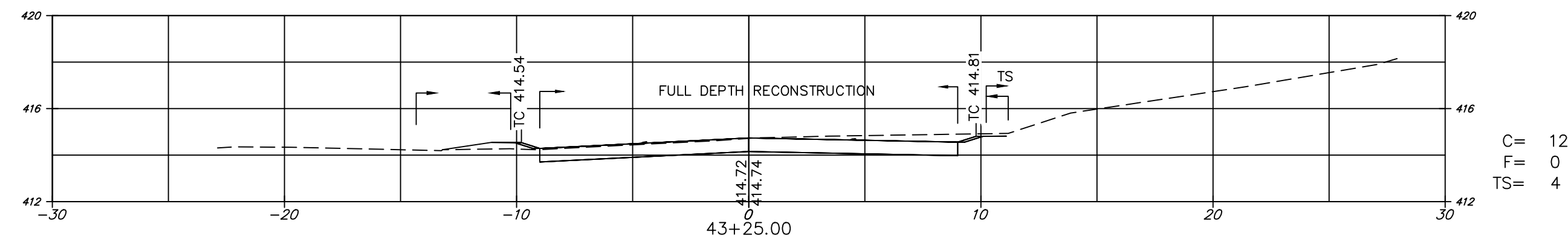
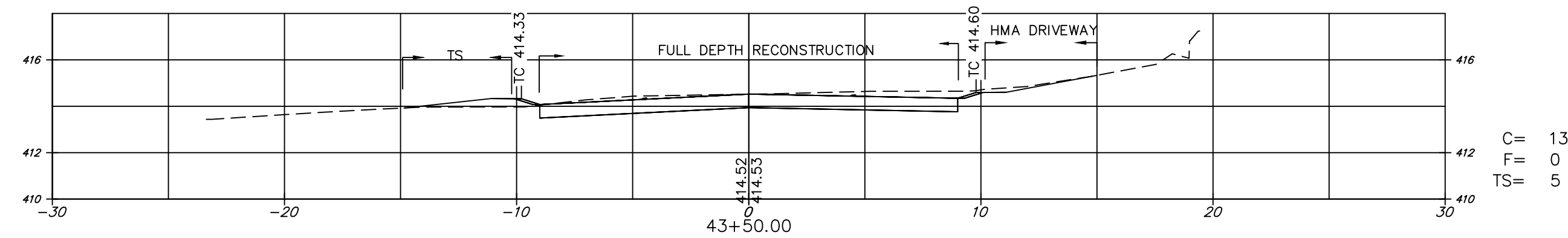
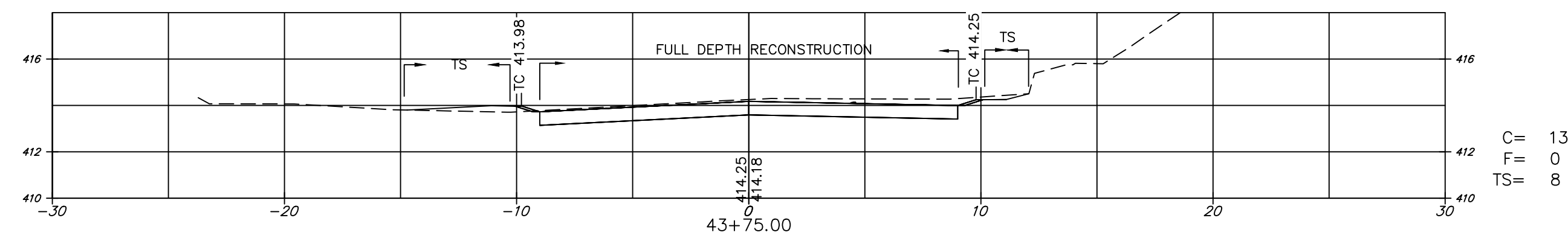
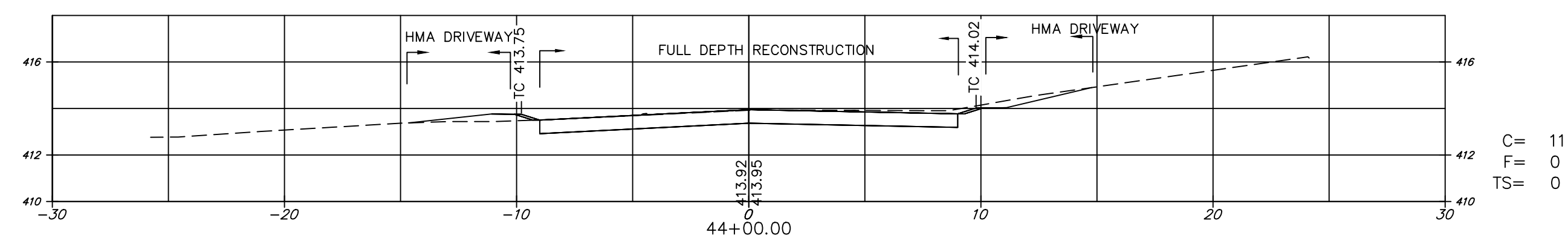
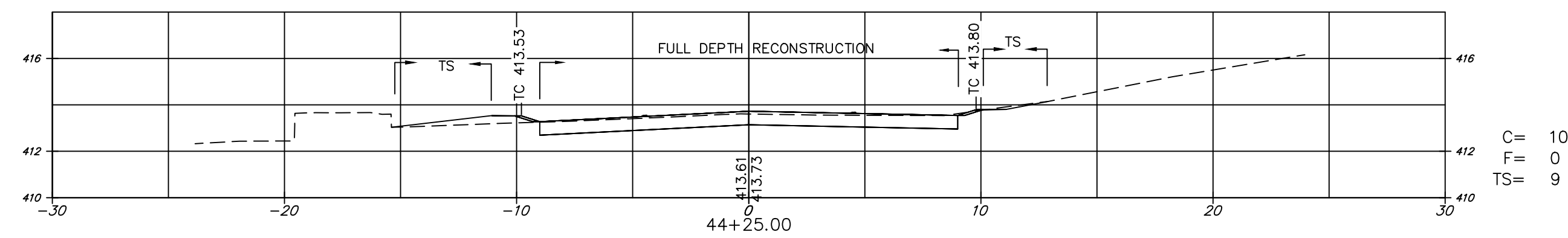
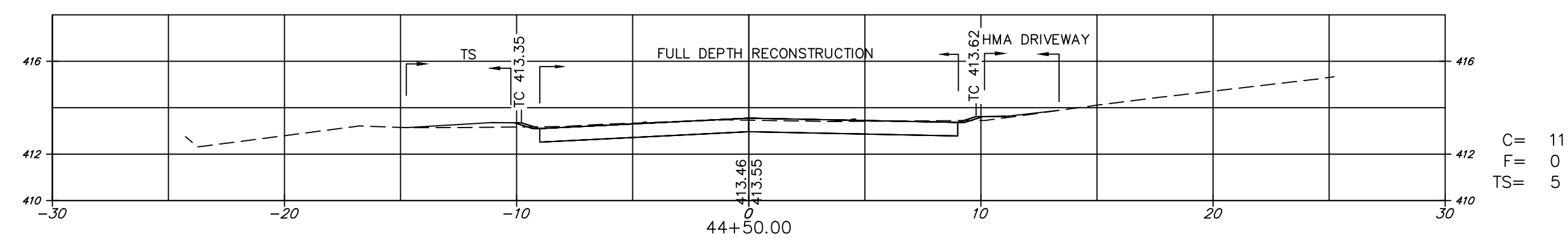
CROSS SECTIONS

MINE AVENUE
(STA 38+00 TO 42+25)

**BERNARDS AVENUE
NEIGHBORHOOD
IMPROVEMENTS
PHASE 2**
BOROUGH OF BERNARDSVILLE
SOMERSET COUNTY
NEW JERSEY

SHEET
18 OF 21

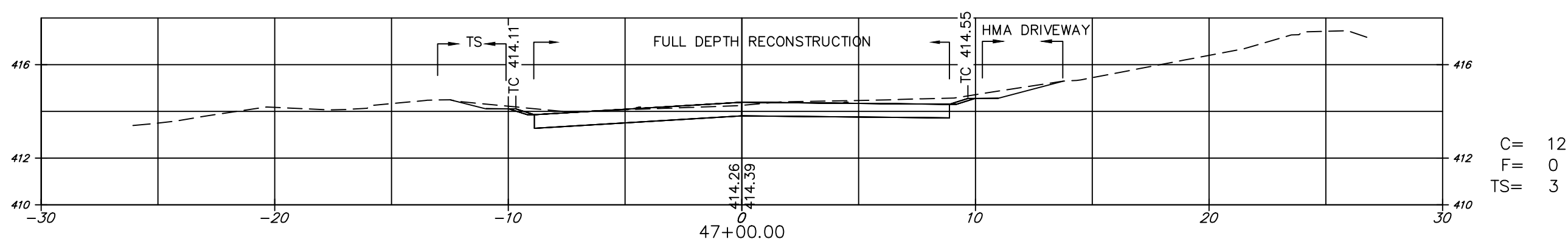
DATE: 12/20/2022	PROJECT NO: 21BV105
REVISION:	



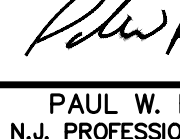
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NO.		REVISION	
DRAWN BY: RCB	CHECKED BY: PWF	SCALE: AS NOTED	
 PAUL W. FERRIERO N.J. PROFESSIONAL ENGINEER NO. GE32978			
 Ferriero Engineering, Inc.			
180 MAIN STREET P.O. BOX 571 CHESTER, NEW JERSEY 07930 908-879-6209			
CERTIFICATE OF AUTHORIZATION 246A27935400			
CROSS SECTIONS MINE AVENUE (STA 42+50 TO 46+75)			
BERNARDS AVENUE NEIGHBORHOOD IMPROVEMENTS PHASE 2 BOROUGH OF BERNARDSVILLE SOMERSET COUNTY NEW JERSEY			
SHEET 19 OF 21			
DATE: 12/20/2022		PROJECT NO: 21B1V105	
REVISION:			

11. ALL EXCAVATION REQUIRED FOR STORM DRAIN INSTALLATION IS CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR THE PIPE OF THE VARIOUS SIZES.



<u>EXCAVATION, UNCLASSIFIED</u>	
FROM GROVE STREET CROSS SECTIONS @ 25' INTERVALS, SHEETS 15-16	211 CY
FROM MAPLE STREET CROSS SECTIONS @ 25' INTERVALS, SHEET 17	133 CY
FROM GARIBALDI STREET CROSS SECTIONS @ 25' INTERVALS, SHEET 18	152 CY
FROM MINE AVENUE CROSS SECTIONS @ 25' INTERVALS, SHEETS 19-21	<u>537 CY</u>
EXCAVATION, UNCLASSIFIED FROM SECTIONS	1,033 CY
LESS 25%	<u>258 CY</u>
AVAILABLE FOR EMBANKMENT (EXCLUDES EXCAVATION FROM TRENCHES)	775 CY
BORROW EXCAVATION, ZONE 3	0 CY
TOPSOILING REQUIRED (BASED ON SECTIONS)	1,515 SY
EXCAVATION, UNCLASSIFIED (CONTRACT AMOUNT)	1,200 CY
EXCAVATION, UNCLASSIFIED, UNSTABLE SUBGRADE (IF AND WHERE REQUIRED)	150 CY
SUBBASE (IF AND WHERE REQUIRED)	150 CY
BORROW TOPSOIL, 4" THICK (CONTRACT AMOUNT, TO BE MEASURED)	250 CY

NO.	DATE	REVISION	
DRAWN BY: RCB	CHECKED BY: PWF	SCALE: AS NOTED	
			
PAUL W. FERRIERO N.J. PROFESSIONAL ENGINEER NO. GE32978			
 Ferriero Engineering, Inc.			
180 MAIN STREET P.O. BOX 571 CHESTER, NEW JERSEY 07930 908-879-6209			
CERTIFICATE OF AUTHORIZATION 246A27935400			
CROSS SECTIONS MINE AVENUE (STA 47+00 TO 48+82)			
BERNARDS AVENUE NEIGHBORHOOD IMPROVEMENTS PHASE 2 BOROUGH OF BERNARDSVILLE SOMERSET COUNTY NEW JERSEY			
SHEET 20 OF 21			
DATE: 12/20/2022		PROJECT NO:	
REVISION:		21BVI05	

