

T.I.P. NO.	SHEET NO.
B-3421	UC-1

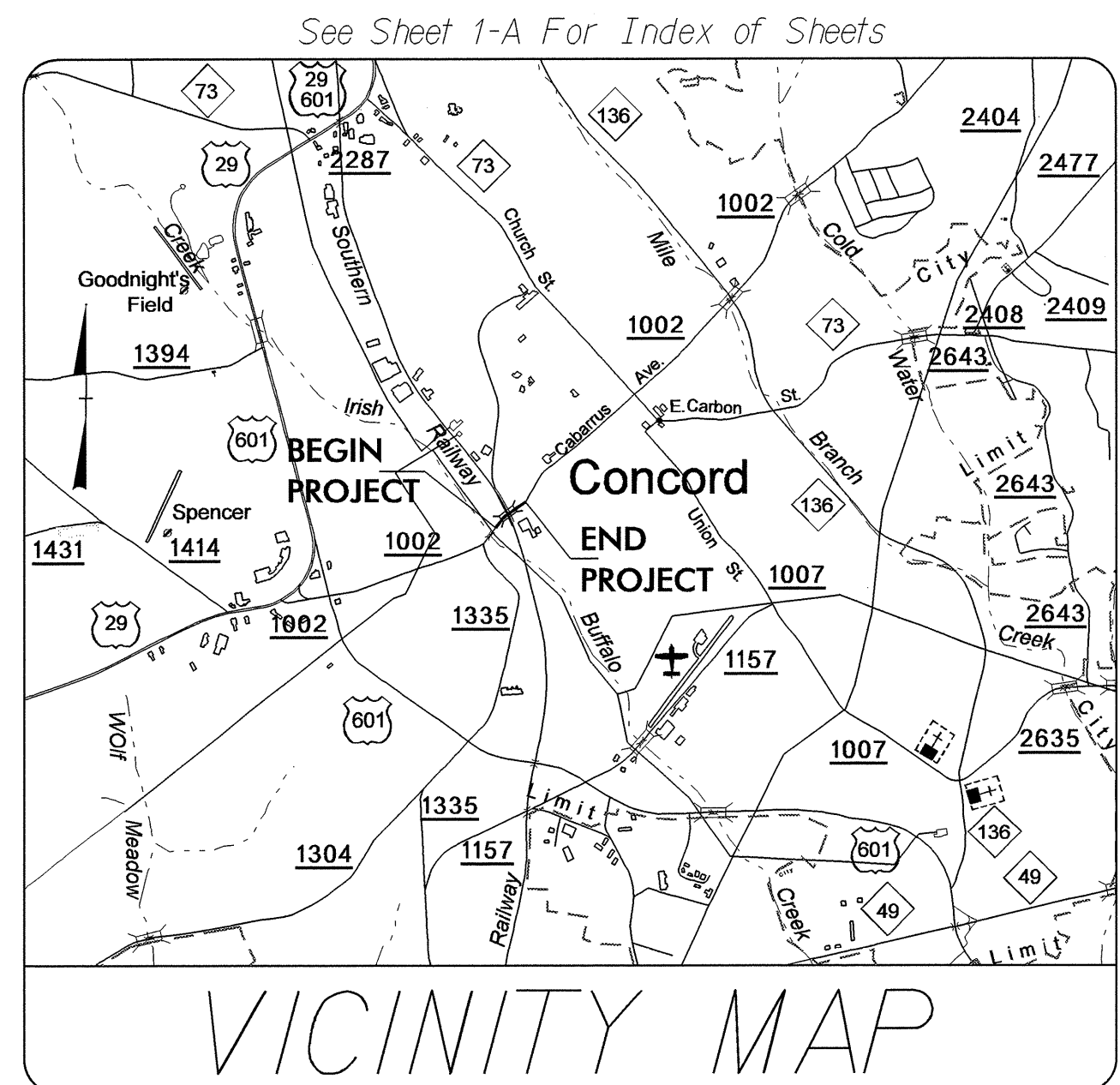
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
CABARRUS COUNTY**

**LOCATION: BRIDGE NO. 266 OVER SOUTHERN RAILWAY ON
SR 1002 (CABARRUS AVE.)**

TYPE OF WORK: WATER AND SEWER CONSTRUCTION

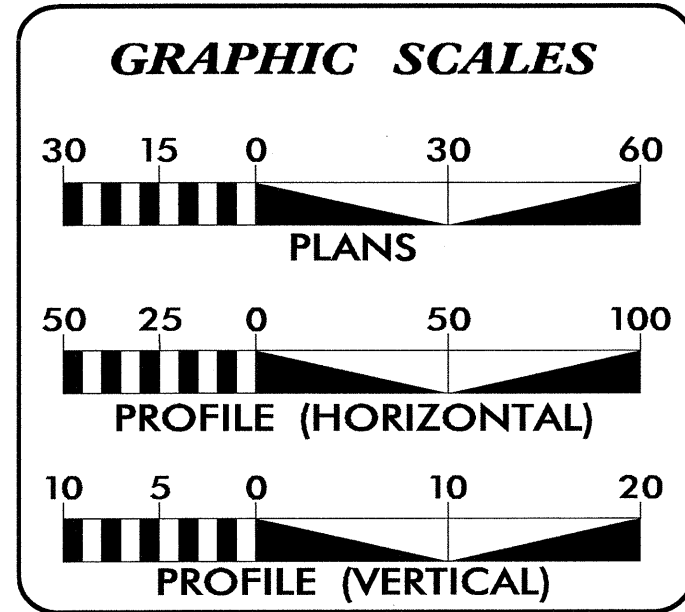
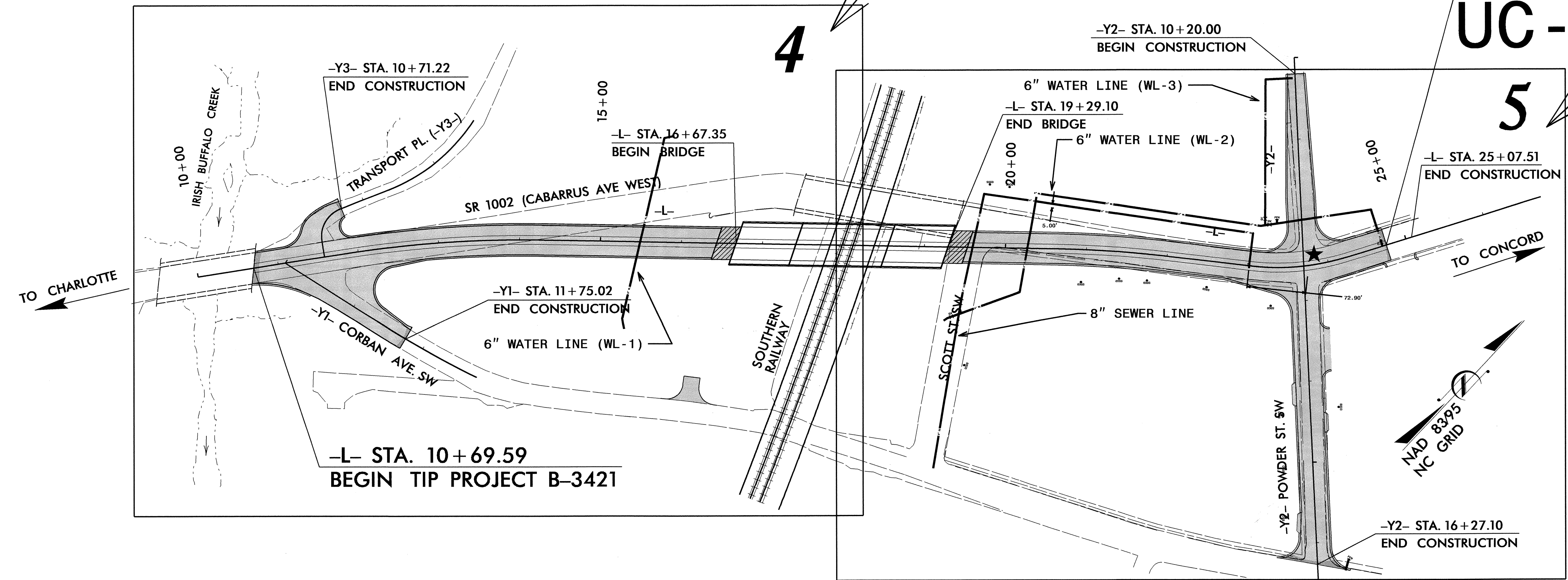
-L- STA. 24+75.00
END TIP PROJECT B-3421



TIP PROJECT: B-3421

UC - 2

UC - 3

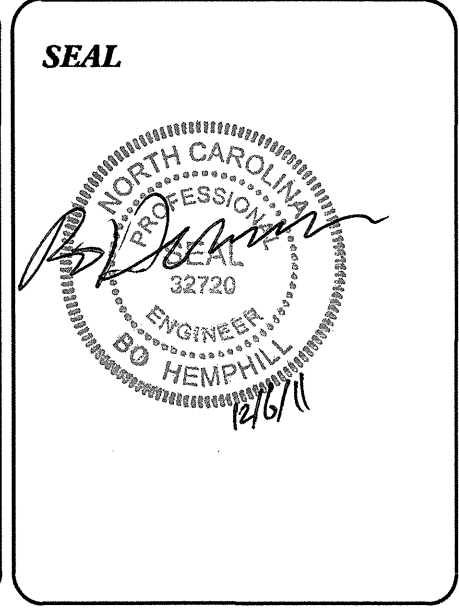


INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 THRU UC-3	UTILITY CONSTRUCTION PLAN SHEETS
UC-4	PROFILE SHEETS
UC-5	DETAILS SHEET

WATER AND SEWER OWNERS ON PROJECT

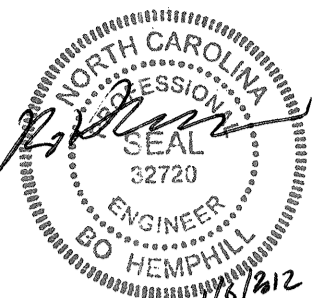
(1) Water - City of Concord
(2) Sanitary Sewer - City of Concord



PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION**

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 707-6690
FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Carl Barclay, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Bo Hemphill, P.E. UTILITIES PROJECT DESIGNER



UTILITY CONSTRUCTION

NOTES:

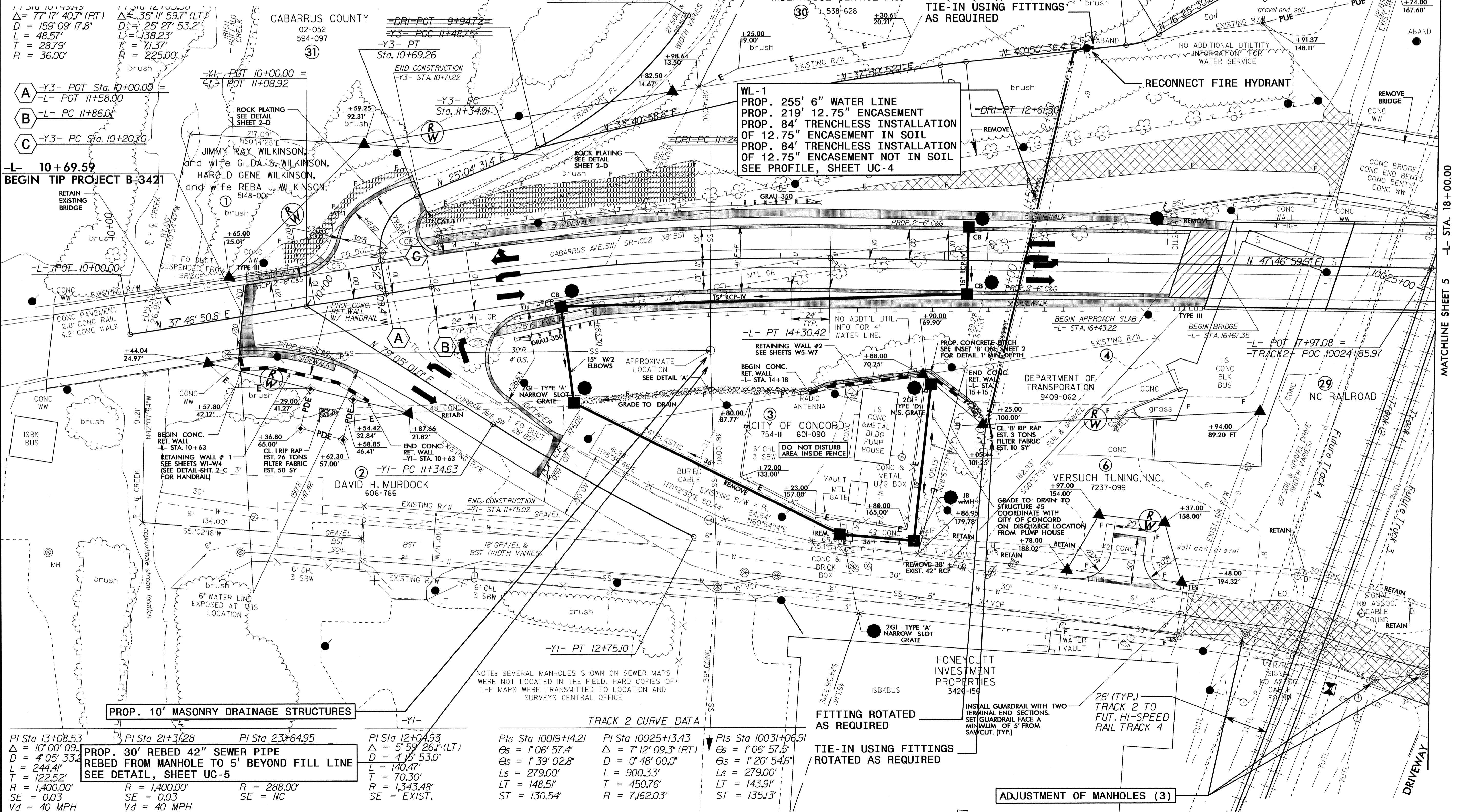
- SEE THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- ALL WATER AND SEWER LINES ARE OWNED BY THE CITY OF CONCORD.
- WATER LINE WL-1 SHALL BE RESTRAINED JOINT DI. WATER LINES WL-2 AND WL-3 SHALL BE DI.
- THE SEWER LINE SEGMENT BETWEEN MH-2 AND MH-3 SHALL BE RESTRAINED JOINT DI.
- ALL RELOCATED WATER AND SEWER SERVICES SHALL BE REPLACED TO THE PIPE.
- SERVICE SHALL BE MAINTAINED FOR ALL WATER AND SEWER CUSTOMERS DURING CONSTRUCTION. SEE THE SPECIAL PROVISIONS FOR SERVICE INTERRUPTION REQUIREMENTS.

- THE ENCASUREMENT FOR WATER LINE WL-1 SHALL EXTEND 5' BEYOND THE FINAL FILL.
- THE ENCASUREMENT OF THE SEWER LINE BETWEEN MH-2 AND MH-3 SHALL EXTEND 5' BEYOND THE SLOPE STAKES. TRENCHLESS INSTALLATION SHALL BE BY JACK AND BORE.
- THE ENCASUREMENT OF WATER LINE WL-2 SHALL EXTEND 5' BEYOND THE SLOPE STAKES. TRENCHLESS INSTALLATION SHALL BE BY JACK AND BORE.
- ALL ENCASUREMENT PIPE SHALL BE STEEL.

PI Sta 11+46.31 Δ = 10° 00' 09.0"
 D = 4' 05" 33.2"
 L = 244.41'
 T = 122.52'
 R = 1,400.00'
 SE = 0.03
 Vd = 40 MPH

PI Sta 12+53.46 Δ = 25° 27' 53.2"
 D = 19' 05" 54.9"
 L = 156.9'
 T = 7.84'
 R = 300.00'

PI Sta 13+70.23 Δ = 24° 25' 05.8"
 D = 14' 35" 29.6"
 L = 21.31'
 T = 10.82'
 R = 50.00'



11+51.01+74.79 Δ = 77° 17' 40.7" (RT)
 D = 159' 09" 17.8"
 L = 48.57'
 T = 28.79'
 R = 36.00'

11+51.01+74.79 Δ = 35° 11' 59.7" (LT)
 D = 25' 27" 53.2"
 L = 138.23'
 T = 71.37'
 R = 225.00'

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 R = 225.00'

PROP. 10' MASONRY DRAINAGE STRUCTURES

PROP. 30' REBED 42" SEWER PIPE REBED FROM MANHOLE TO 5' BEYOND FILL LINE SEE DETAIL, SHEET UC-5

TRACK 2 CURVE DATA

PIs Sta 10019+14.21	PI Sta 10025+13.43	PIs Sta 10031+06.91
Δ = 1° 06' 57.4"	Δ = 7° 12' 09.3" (RT)	Δ = 1° 06' 57.5"
D = 1' 39" 02.8"	D = 0' 48" 00.0"	D = 1' 20" 54.6"
Ls = 279.00'	L = 900.33'	Ls = 279.00'
LT = 148.51'	T = 450.76'	LT = 143.91'
ST = 130.54'	R = 7,162.03'	ST = 135.13'

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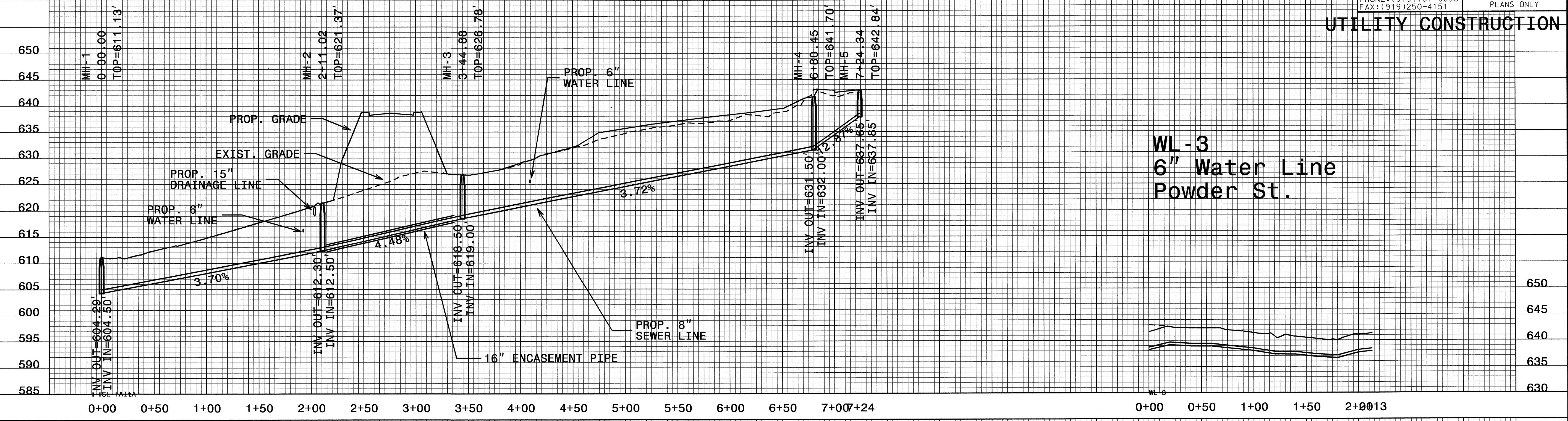
MATCHLINE SHEET 5 - L STA. 18+00.00

5/28/99

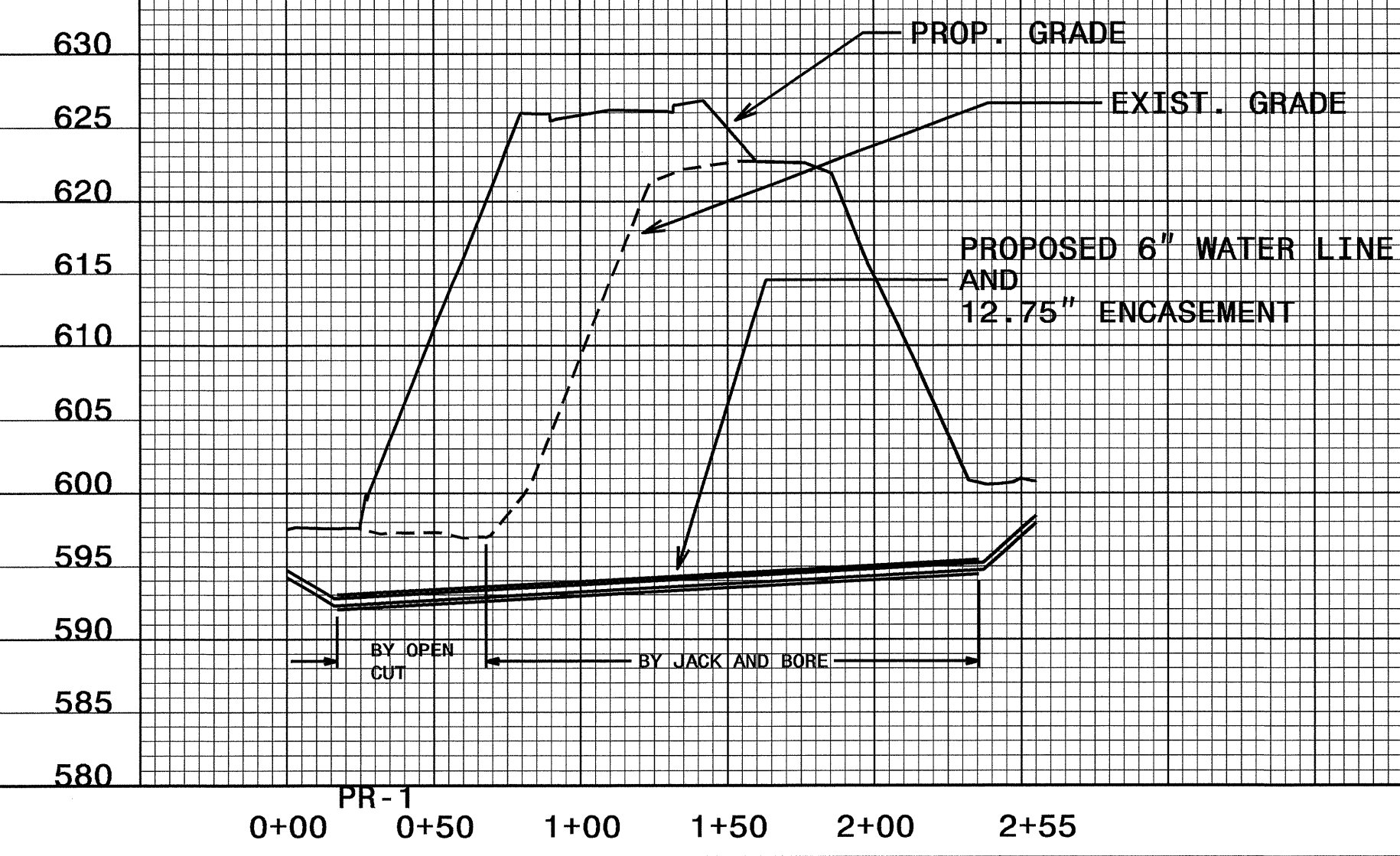
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PROJECT REFERENCE NO. B-3421	SHEET NO. UC-4
DESIGNED BY: BH	
DRAWN BY: BH	
CHECKED BY: CAB	
APPROVED BY: CAB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

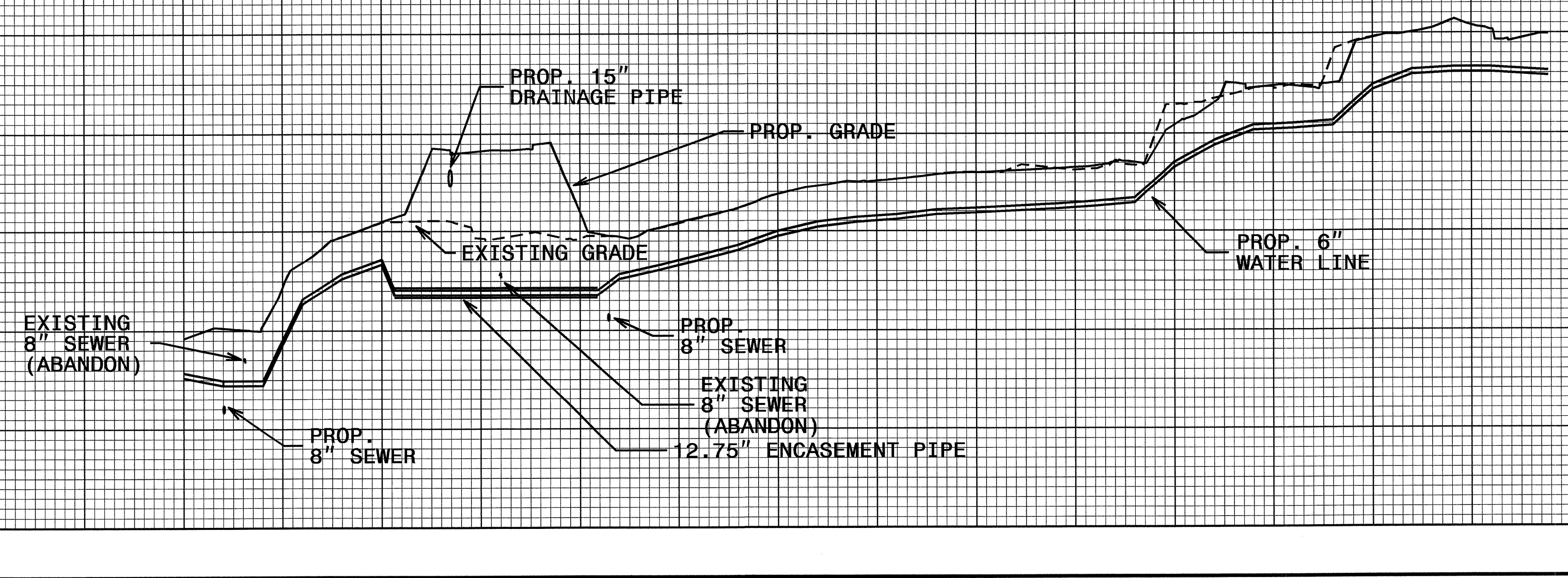
8" Sewer Line Cabarrus Ave./Scott St.



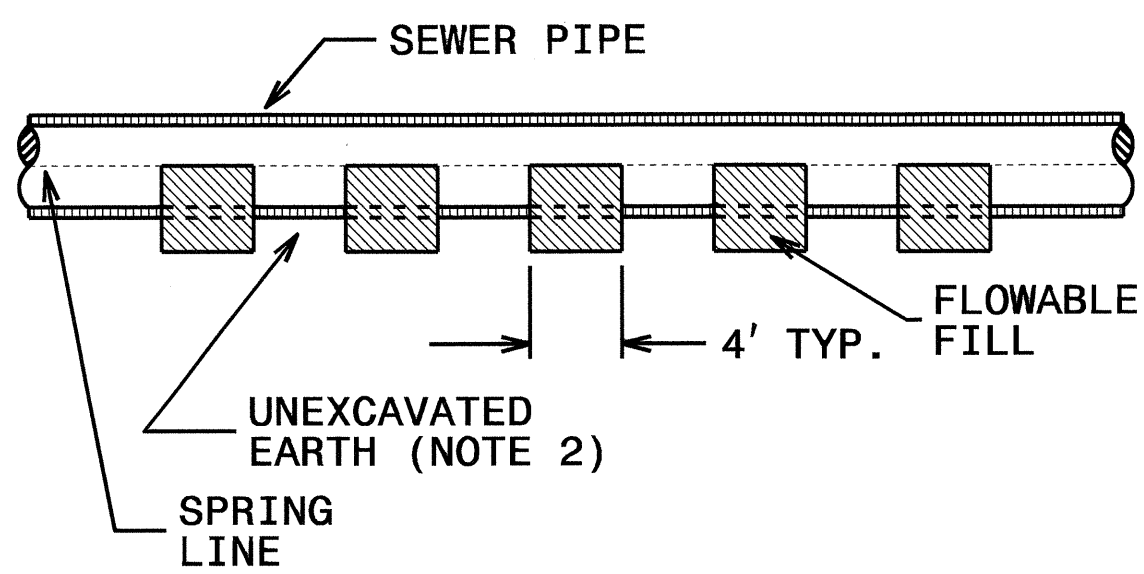
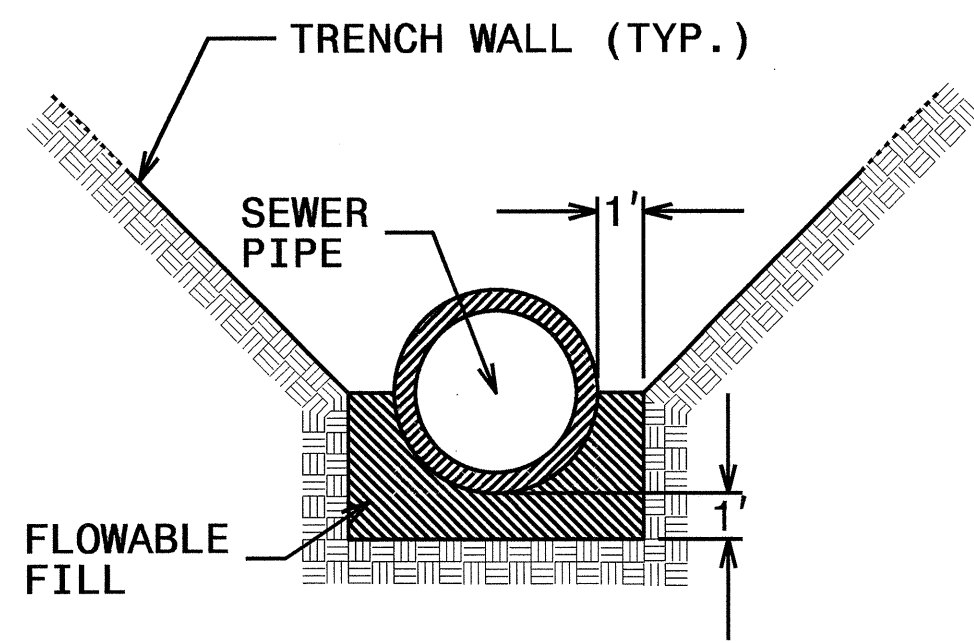
WL-1 6" Water Line Crossing Cabarrus Ave.



WL-2 6" Water Line Cabarrus Ave.

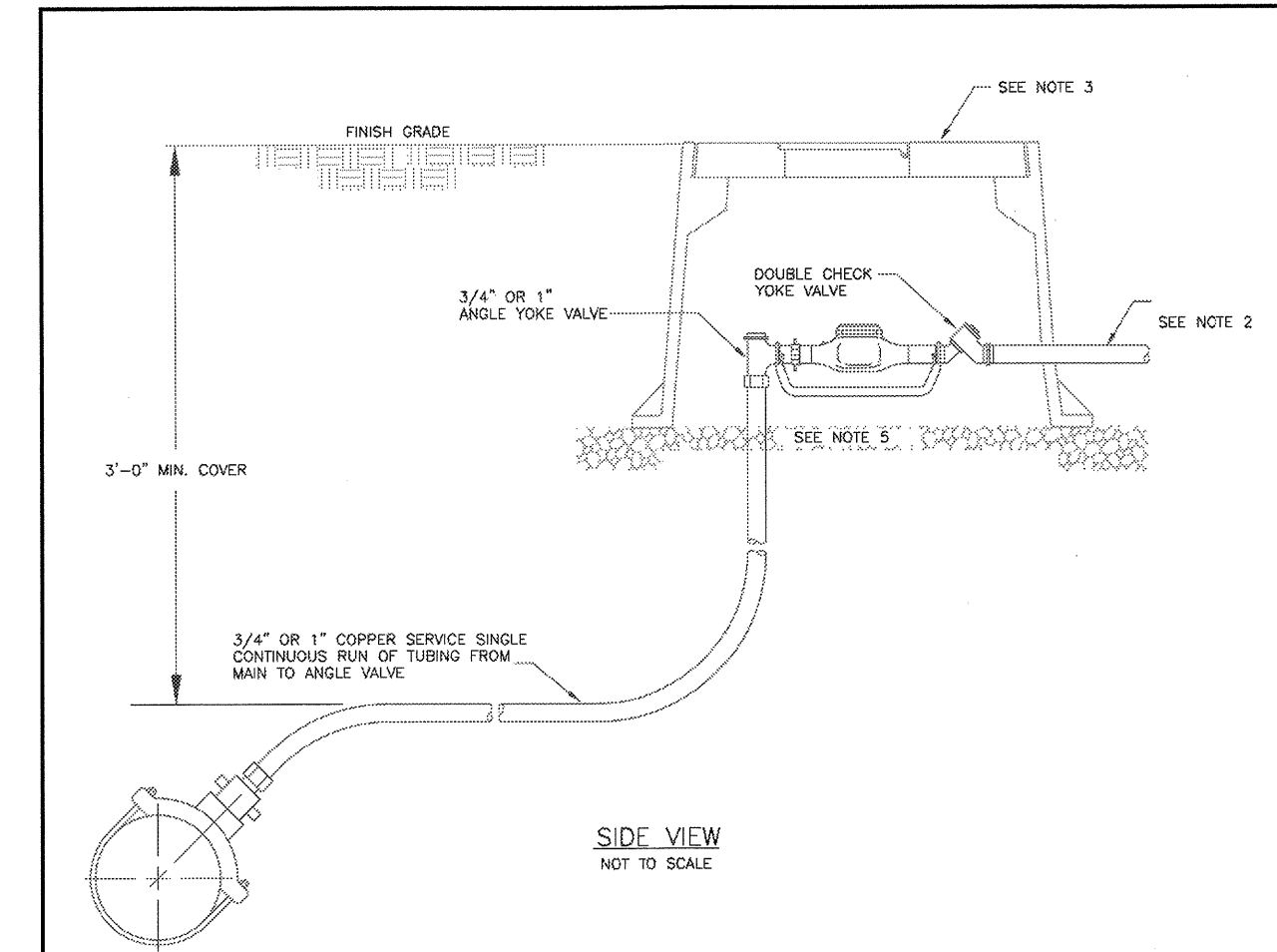
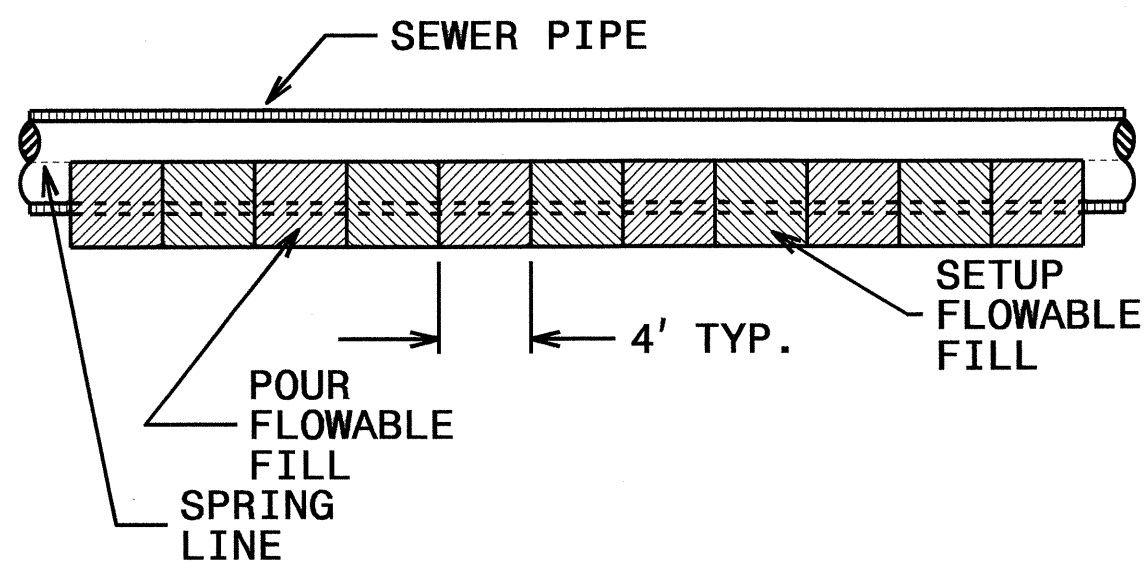


42" SEWER LINE REBEDDING DETAIL



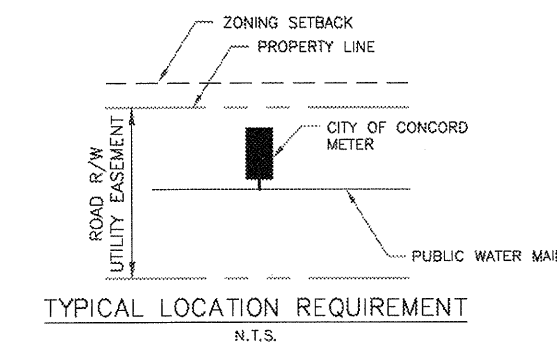
NOTES:

1. USE 150 PSI FLOWABLE FILL.
2. EXCAVATE UNDER PIPE IN ALTERNATING 4' SECTIONS. LEAVE SOIL IN PLACE BETWEEN SECTIONS TO BE REBEDDED. POUR FLOWABLE FILL TO THE SPRING LINE OF THE PIPE. ALLOW FLOWABLE FILL TO SET OVERNIGHT.
3. EXCAVATE INTERMEDIATE SECTIONS UNDER PIPE. POUR FLOWABLE FILL TO THE SPRING LINE OF THE PIPE AND ALLOW TO SET.
4. THE TRENCH MAY BE BACKFILLED WHEN DIRECTED BY THE ENGINEER.



GENERAL NOTES:

1. REFER TO THE CITY OF CONCORD SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF MATERIALS.
2. PROVIDE 12" BRASS NIPPLE PAST BOX.
3. THE METER HOUSING SHALL BE MID STATE PLASTICS OR EQUAL; 3/4-INCH BOX MSBCF - 1118-12XL AND LID MSBCF-1118-RT; AND 1-INCH BOX MSBCF-1324-12XL AND LID MSBCF-1324-RT. METER BOX RIM SHALL BE SET FLUSH WITH FINAL GRADE. THE WATER METER BOX ASSEMBLY SHALL NOT BE LOCATED WITHIN A ROAD, STREET, DRIVEWAY, SIDEWALK OR DRAINAGE FEATURE.
4. ALL APPURTENANCES FOR THE INSTALLATION OF THE WATER METER; THE METER; BRASS GROUND LOCKABLE METER CUTOFF, GASKETS, AND EXPANSION CONNECTION; SHALL BE INSTALLED BY THE CITY OF CONCORD, IF CONNECTION IS TO AN EXISTING MAIN.
5. THE BASE OF THE METER BOX MUST HAVE AT LEAST 8-INCHES TO 8-INCHES OF #57 WASHED STONE.



		WATER METER STANDARD DETAIL 3/4-INCH AND 1-INCH RESIDENTIAL WATER SERVICE METER	
1.	9/7/07	By	CONTINUOUS PIPE & CONNECTION, SWM
No.	Date	By	REVISION
Drawn By:		Checked By:	Approved By: Date
			02/05

GENERAL NOTES:

1. HYDRANTS SHALL BE MUELLER COMPANY - MODEL SUPER CENTURION 250, AMERICAN FLOW CONTROL - MODEL 5 1/2" 8-84-S, GLOW VALVE COMPANY - MODEL: MEDALLION, OR EQUAL WITH BLACK PRIMER FINISH.
2. HYDRANT SHALL HAVE INTEGRAL 3/4"-10TPI STYLE STORZ CONNECTION WITH 6 1/4" VALVE OPENING, OPEN LEFT, 1 1/2" PENTAGON NUTS, TWO-2 3/8" NST CONNECTIONS, ONE-5" STORZ CONNECTION, DRAIN HOLES OPEN, AND 6" MJ SHOE.
3. MINIMUM BURY DEPTH OF 3'-6".
4. ALL HYDRANTS SHALL STAND UPRIGHT. HYDRANTS WITH PUMPER NOZZLES SHALL HAVE HOSE NOZZLES PARALLEL WITH, AND THE PUMPER NOZZLE PERPENDICULAR TO, THE CURB LINE. ALL HYDRANTS SHALL BE ORIENTED SO THAT THE PUMPER NOZZLE FACES THE CURB OR AS DIRECTED BY THE CITY.
5. HYDRANT SHALL BE LOCATED AT LEAST 3' BEHIND THE CURB AND LESS THAN 10' FROM THE EDGE OF THE ROAD PAVEMENT OR AS DIRECTED BY THE CITY.
6. ALL OTHER MATERIALS AND INSTALLATION MUST CONFORM WITH THE TECHNICAL STANDARDS OF WSACC AND CITY OF CONCORD.

FIRE HYDRANT PAINT COLOR CODE REQUIREMENTS:
 ALL NEW FIRE HYDRANTS INSTALLED IN THE CITY OF CONCORD SHALL BE PAINTED IN ACCORDANCE WITH THE FOLLOWING COLORS:

1. HYDRANTS ON PUBLIC WATER MAINS SHALL BE PAINTED SAFETY YELLOW, SHERWIN WILLIAMS STEEL MASTER 9500 B96-300 SERIES: LVR 30% OR EQUAL.
2. PRIVATE HYDRANTS ON PRIVATE WATER MAINS SHALL BE PAINTED SAFETY RED, SHERWIN WILLIAMS SW4081 LVR 11% OR EQUAL.

FOR ALL FIELD PAINTING, ALL SURFACES SHALL BE SANDBLASTED AND PROPERLY PREPARED ACCORDING TO THE PAINT MANUFACTURER'S RECOMMENDATION PRIOR TO PAINTING. ALL FIRE HYDRANTS AND ANY PORTIONS OF THE HYDRANT ASSEMBLY EXPOSED TO VIEW (ABOVE ADJACENT GROUND ELEVATION) SHALL BE PAINTED WITH TWO (2) OR MORE EVENLY APPLIED COATS OF HYDRANT ENAMEL PAINT. HYDRANTS WILL BE RETOUCHED / REPAINTED AS NECESSARY AFTER INSTALLATION AND PRIOR TO ACCEPTANCE.

		CITY OF CONCORD STANDARD DETAIL FIRE HYDRANT	
1.	8/9/08	By	PUBLIC HYDRANT COLOR REVISION
No.	Date	By	REVISION
Drawn By:		Checked By:	Approved By: Date
			09/08

TYPICAL NCDOT BORE DETAIL (NTS)

TYPICAL PIPE CROSSING UNDER HIGHWAYS (NTS)

TYPICAL END WALL SECTION (NTS)

GENERAL NOTES:

1. SEE DRAWINGS FOR LOCATION, SIZE AND LENGTH OF STEEL PIPE CASINGS.
2. INSTALL TWO (2) 1-INCH DRAINS EACH SIDE OF CARRIER PIPE IN DOWNHILL END WALL.
3. ENGAGEMENT PIPE IS TO EXTEND OUTSIDE OF THEORETICAL 1:1 SLOPE FROM EXISTING OR PROPOSED EDGE OF PAVEMENT AND 5 FEET BEHIND THE CURB AND/OR 5 FT BEYOND THE TOE OF THE SLOPE.
4. ALL EXCAVATIONS SHALL BE OUTSIDE THE PROJECTED 1:1 THEORETICAL SLOPE FROM EDGE OF PAVEMENT (E.O.P.) LINE OR A MINIMUM OF 5 FEET FROM THE EDGE OF PAVEMENT TO THE NEAREST EDGE OF TRENCH.
5. ALL TRAFFIC WILL BE EXCLUDED FROM THE 1:1 SLOPE AREA UNTIL BACKFILL IS COMPLETE.
6. IN ANY EVENT SHOULD THE 1:1 SLOPE AREA BE UNPROTECTED, ACTIVE SHORING (SHEET PILING, SOLDIER PILES AND/OR LAGGING, ETC) SHALL MEET THE APPROVAL OF MDT DIVISION ENGINEER.
7. ACTIVE SHORING SHALL BE IN ACCORDANCE WITH OSHA TRENCHING STANDARD 1926 SUBPART 7" OR AS AMENDED.
8. RESTRAINED PUSH-ON JOINT DUCTILE IRON CARRIER PIPE SHALL EXTEND THROUGH NCDOT ROW AND CASING PIPE ASSEMBLY.
9. SEE NCDOT DETAIL M2.0 "CASING SPIDER" FOR CASING PIPE AND SPIDER REQUIREMENTS.

		CITY OF CONCORD STANDARD DETAIL NCDOT DRY BORE	
1.	8/26/08	By	REVISION FROM WSACC
No.	Date	By	REVISION
Drawn By:		Checked By:	Approved By: Date
			10/07

RELATION OF WATER MAINS TO SANITARY SEWER MAINS

NOTE:
 WHEN THE WATER MAIN IS ABOVE THE SANITARY SEWER, BUT WITH LESS THAN 24" CLEARANCE, OR WHEN THE SANITARY SEWER IS ABOVE THE WATER MAIN, BOTH THE WATER MAIN AND THE SANITARY SEWER LINE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL SPACING MEASURED AT RIGHT ANGLES TO THE SEWER, OF 10 FEET OR EACH SIDE OF THE CROSSING.

		RELATION OF WATER MAINS TO SANITARY SEWER MAINS	
1.	8/26/08	By	REVISION FROM WSACC
No.	Date	By	REVISION
Drawn By:		Checked By:	Approved By: Date
			10/07

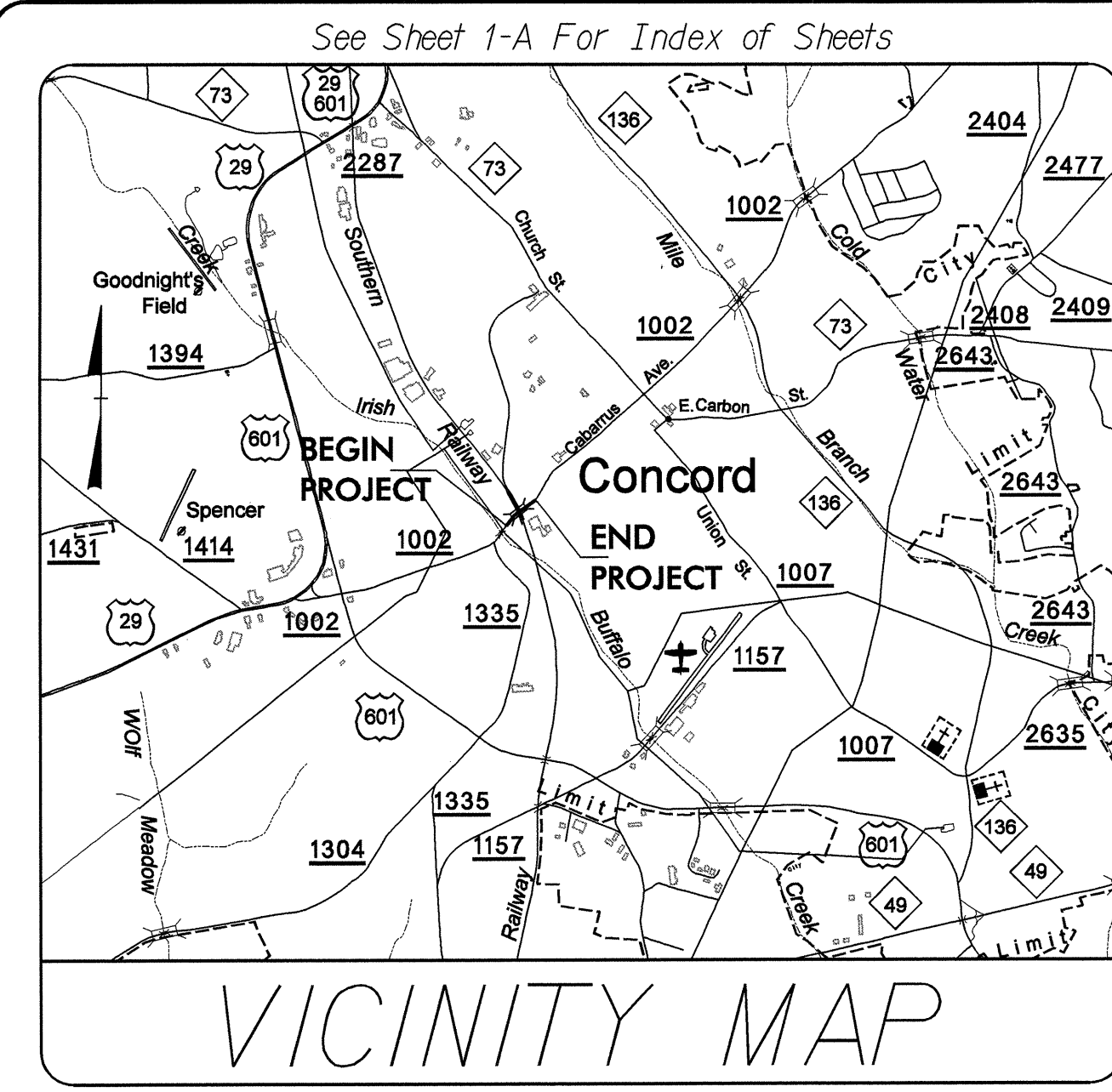
TYPICAL SEWER LATERAL

NOTE:

1. THE LATERAL SHALL BE A MINIMUM OF 5'-0" BELOW THE EDGE OF PAVEMENT, EXCEPT WHERE DEPTH OF SEWER MAIN WILL NOT PERMIT.
2. 4" SCHER LATERAL - MINIMUM GRADE 1.0%

		TYPICAL SEWER LATERAL	
1.	8/26/08	By	REVISION FROM WSACC
No.	Date	By	REVISION
Drawn By:		Checked By:	Approved By: Date
			10/07

CONTRACT: C 202773 TIP PROJECT: B-3421



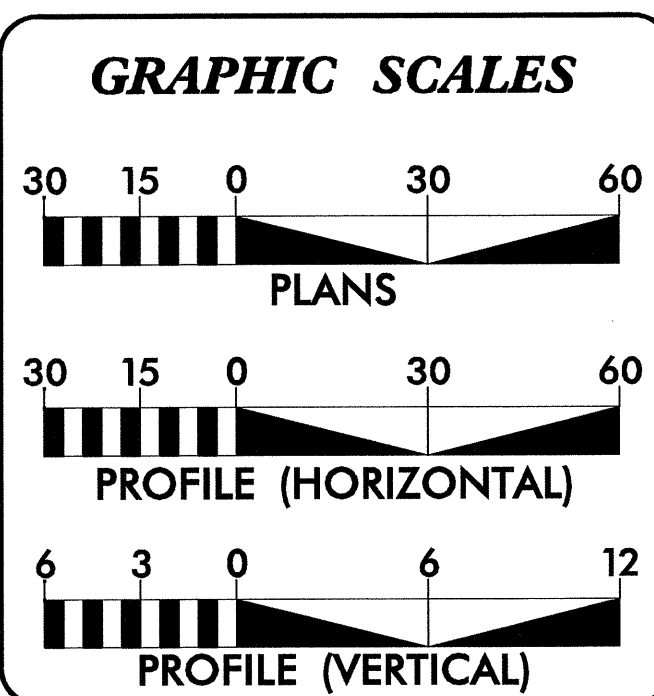
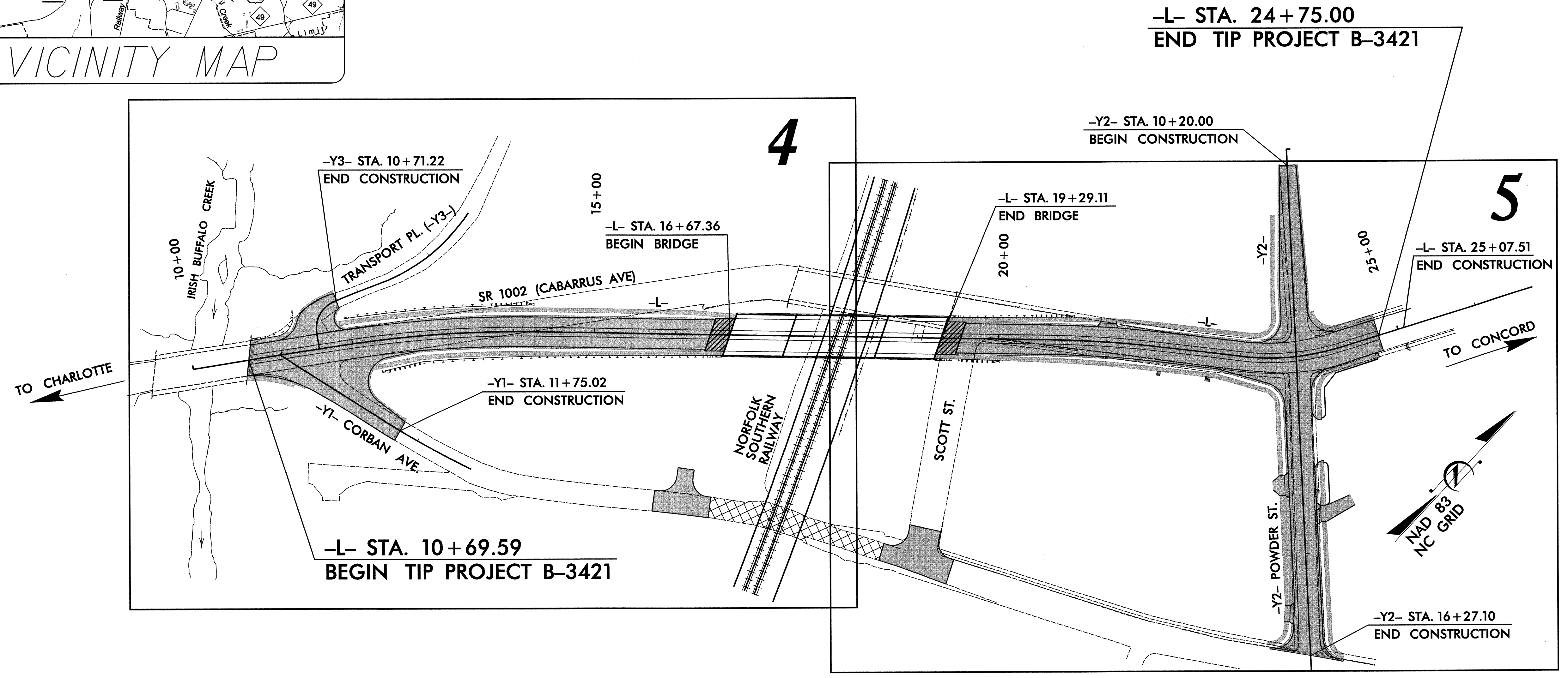
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CABARRUS COUNTY

**LOCATION: BRIDGE NO. 266 OVER SOUTHERN RAILWAY ON
SR 1002 (CABARRUS AVE.)**
TYPE OF WORK: UTILITIES BY OTHERS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3421	UO-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 2010 =	21,723
ADT 2030 =	23,800
DHV =	10 %
D =	50 %
T =	5 % *
V =	40 MPH
* (TTST 2% + DUAL 3%)	
FUNC. CLASS =	URBAN MINOR ARTERIAL
DESIGN EXCEPTION REQ'D FOR VERTICAL ALIGNMENT & VERTICAL SSD	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2 THRU 3	PLAN SHEETS

- UTILITY OWERS ON PROJECT**
- (1) CITY OF CONCORD - POWER
 - (2) WINDSTREAM - TELEPHONE
 - (3) TIME WARNER CABLE - CATV
 - (4) PSNC - GAS

HYDRAULICS ENGINEER

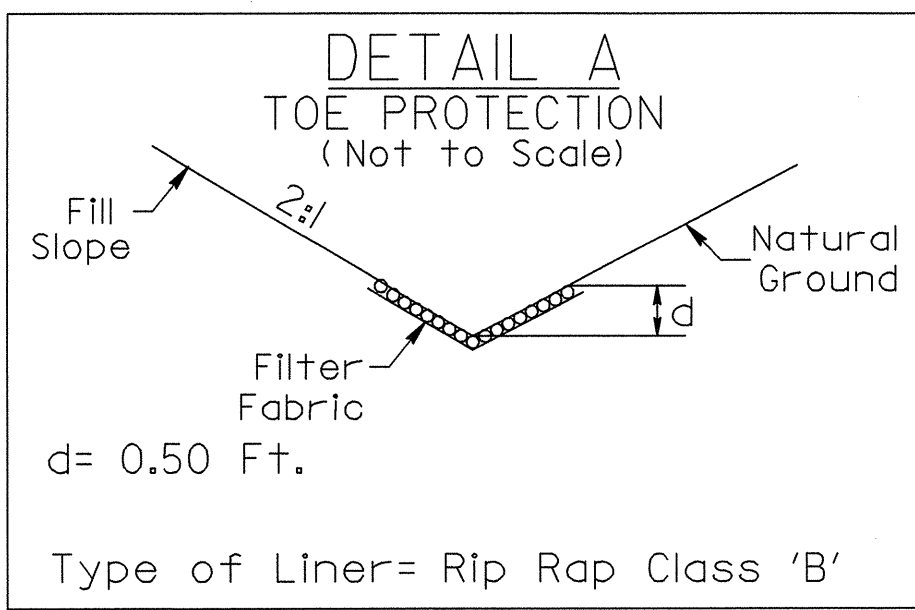
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

STATE HIGHWAY DESIGN ENGINEER



UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.

UTILITIES OWNERS OF PROJECT

CITY OF CONCORD - POWER
WINDSTREAM - TELEPHONE
TIME WARNER CABLE - CATV
PSNC - GAS

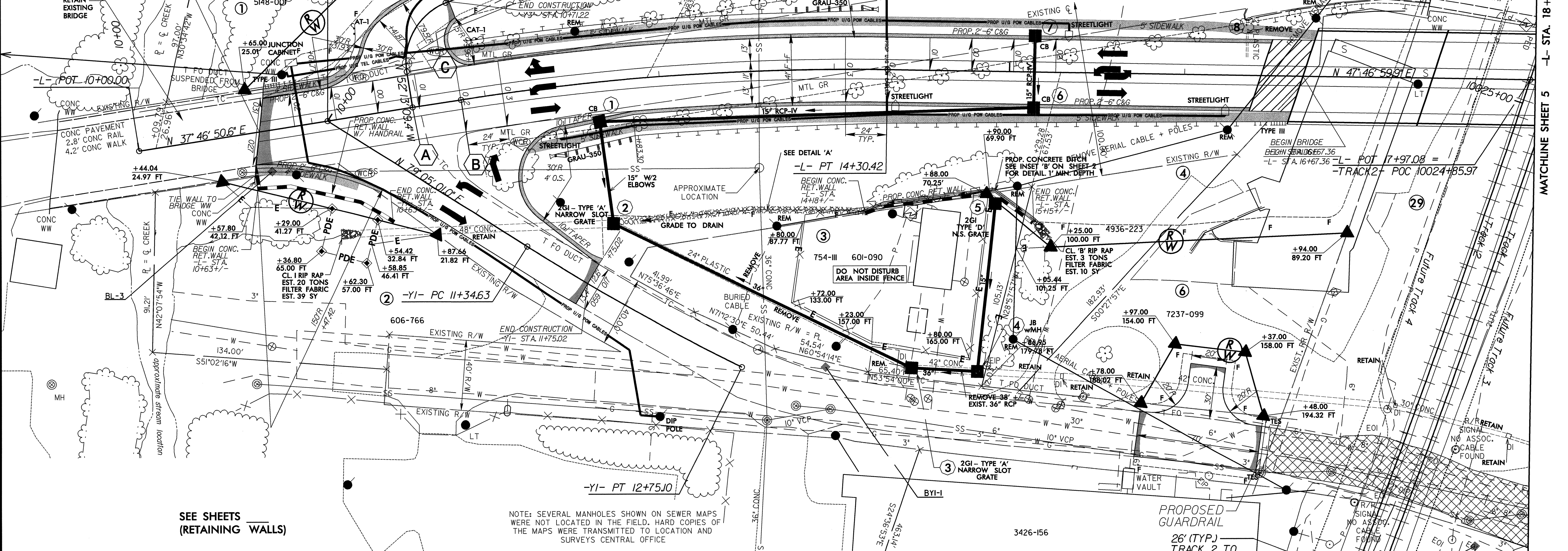
FROM -L- STA. 12+70+/- TO -L- STA. 14+20+/- RT
EST. CL 'B' RIP RAP = 30 TONS
EST. FILTER FABRIC = 80 SY

-Y3-

PI Sta 10+49.49	PI Sta 12+05.38
D = 77' 17" 40.7" (RT)	D = 35' 11" 59.7" (LT)
D = 159' 09" 17.8"	D = 25' 27" 53.2"
L = 48.57'	L = 138.23'
T = 28.79'	T = 71.37'
R = 36.00'	R = 225.00'

- A -Y3- POT Sta. 10+00.00 = -L- POT 11+58.00
- B -L- PC 11+86.01
- C -Y3- PC Sta. 10+20.70

-L- 10+69.59
BEGIN TIP PROJECT B-3421



SEE SHEETS (RETAINING WALLS)

NOTE: SEVERAL MANHOLES SHOWN ON SEWER MAPS WERE NOT LOCATED IN THE FIELD. HARD COPIES OF THE MAPS WERE TRANSMITTED TO LOCATION AND SURVEYS CENTRAL OFFICE

-L-			-Y1-	TRACK 2 CURVE DATA		
PI Sta 13+08.53	PI Sta 21+31.28	PI Sta 23+64.95	PI Sta 12+04.93	PIs Sta 10019+14.21	PI Sta 10025+13.43	PIs Sta 10031+06.91
D = 10' 00" 09.3" (RT)	D = 5' 45" 30.6" (RT)	D = 2' 49" 12.5" (LT)	D = 5' 59" 26.1" (LT)	Fs = 1' 06" 57.4"	D = 7' 12" 09.3" (RT)	Fs = 1' 06" 57.5"
D = 4' 05" 33.2"	D = 4' 05" 33.2"	D = 19' 53" 39.7"	D = 4' 15" 53.0"	Fs = 1' 39" 02.8"	D = 0' 48" 00.0"	Fs = 1' 20" 54.6"
L = 244.4'	L = 140.7'	L = 121.4'	L = 140.47'	Ls = 279.00'	L = 900.33'	Ls = 279.00'
T = 122.52'	T = 70.41'	T = 61.62'	T = 70.30'	LT = 148.51'	T = 450.76'	LT = 143.91'
R = 1,400.00'	R = 1,400.00'	R = 288.00'	R = 1,343.48'	ST = 130.54'	R = 7,162.03'	ST = 135.13'
SE = 0.03	SE = 0.03	SE = NC	SE = EXIST.			
Vd = 40 MPH	Vd = 40 MPH					

PROPOSED GUARDRAIL
26' (TYP.)
TRACK 2 TO
FUT. HI-SPEED
RAIL TRACK 4

SEE SHEET 6 FOR -L- GRADE & PROFILE

8/17/09
 REVISIONS
 09/29/11 14:22:21
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MATCHLINE SHEET 5 -L- STA. 18+00.00

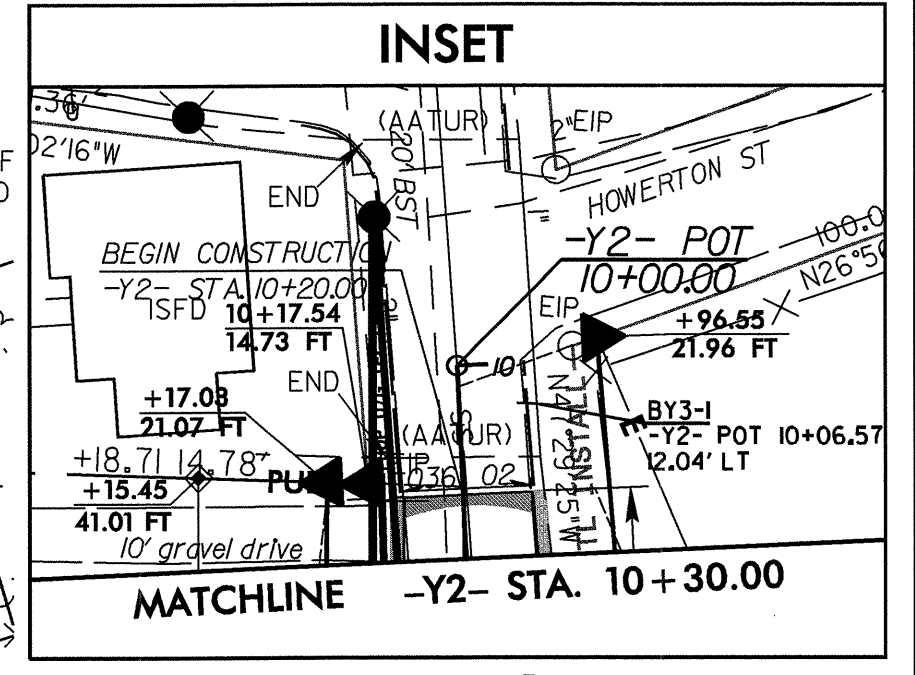
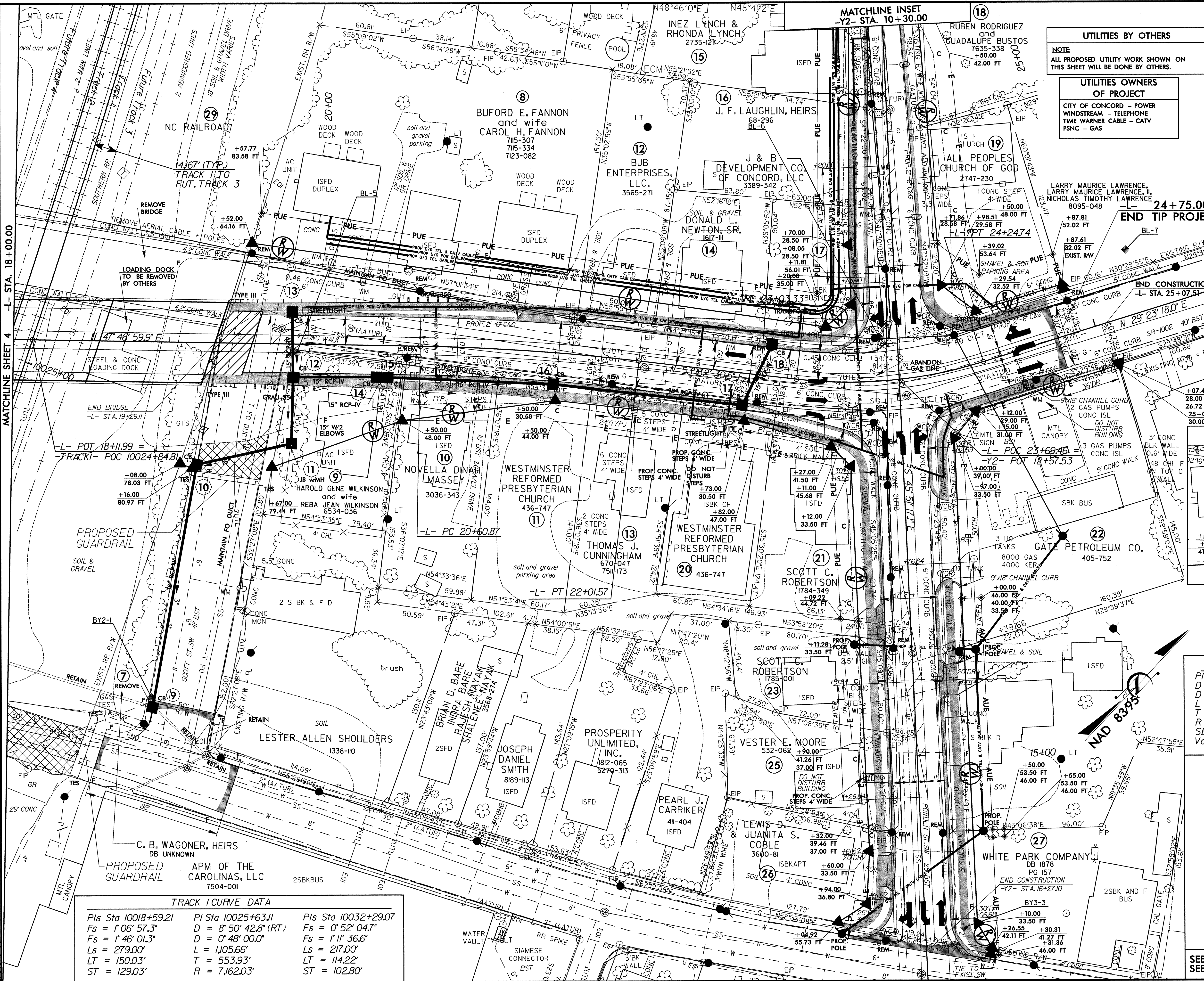
PROJECT REFERENCE NO.	SHEET NO.
B-3421	00-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.

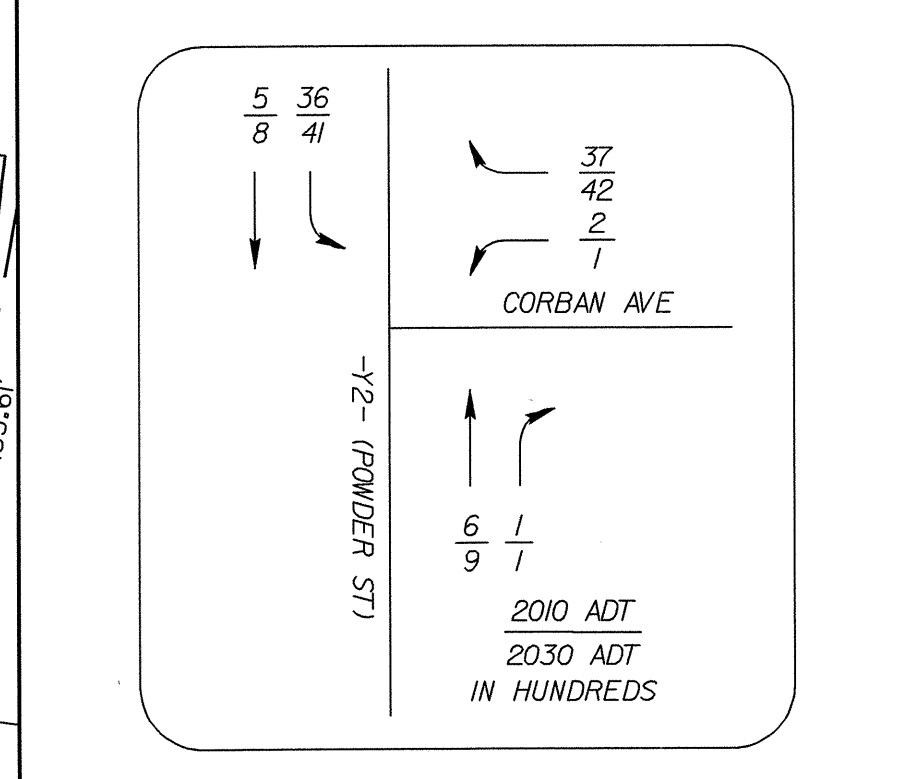
UTILITIES OF PROJECT

CITY OF CONCORD - POWER
WINDSTREAM - TELEPHONE
TIME WARNER CABLE - CATV
PSNC - GAS



24
DONALD L. NEWTON, SR.
1319-352
1617-111
1736-342
2404-289
2467-031

-L-	
PI Sta 21+31.28	PI Sta 23+64.95
D = 5' 45" 30.6" (RT)	D = 24' 09" 12.5" (LT)
D = 4' 05" 33.2"	D = 19' 53" 39.7"
L = 140.71'	L = 121.41'
T = 70.41'	T = 61.62'
R = 1,400.00'	R = 288.00'
SE = 0.03	SE = NC
Vd = 40 MPH	



TRACK 1 CURVE DATA

PIs Sta 10018+59.21	PI Sta 10025+63.11	PIs Sta 10032+29.07
Fs = 1' 06" 57.3"	D = 8' 50" 42.8" (RT)	Fs = 0' 52" 04.7"
Fs = 1' 46" 01.3"	D = 0' 48" 00.0"	Fs = 1' 11" 36.6"
Ls = 279.00'	L = 1105.66'	Ls = 217.00'
LT = 150.03'	T = 553.93'	LT = 114.22'
ST = 129.03'	R = 7,162.03'	ST = 102.80'

SEE SHEET 7 FOR -L- GRADE & PROFILE
SEE SHEET 7 FOR -Y2- GRADE & PROFILE

8/17/99
 MATCHLINE SHEET 4 -L- STA. 18+00.00
 MATCHLINE INSET -Y2- STA. 10+30.00
 REVISIONS
 05/11/2008 08116_NCDOTUtilityCoord\001_B-3421\NCDOT Provided Data\B-3421-11\B3421-rdy_psh5.dgn