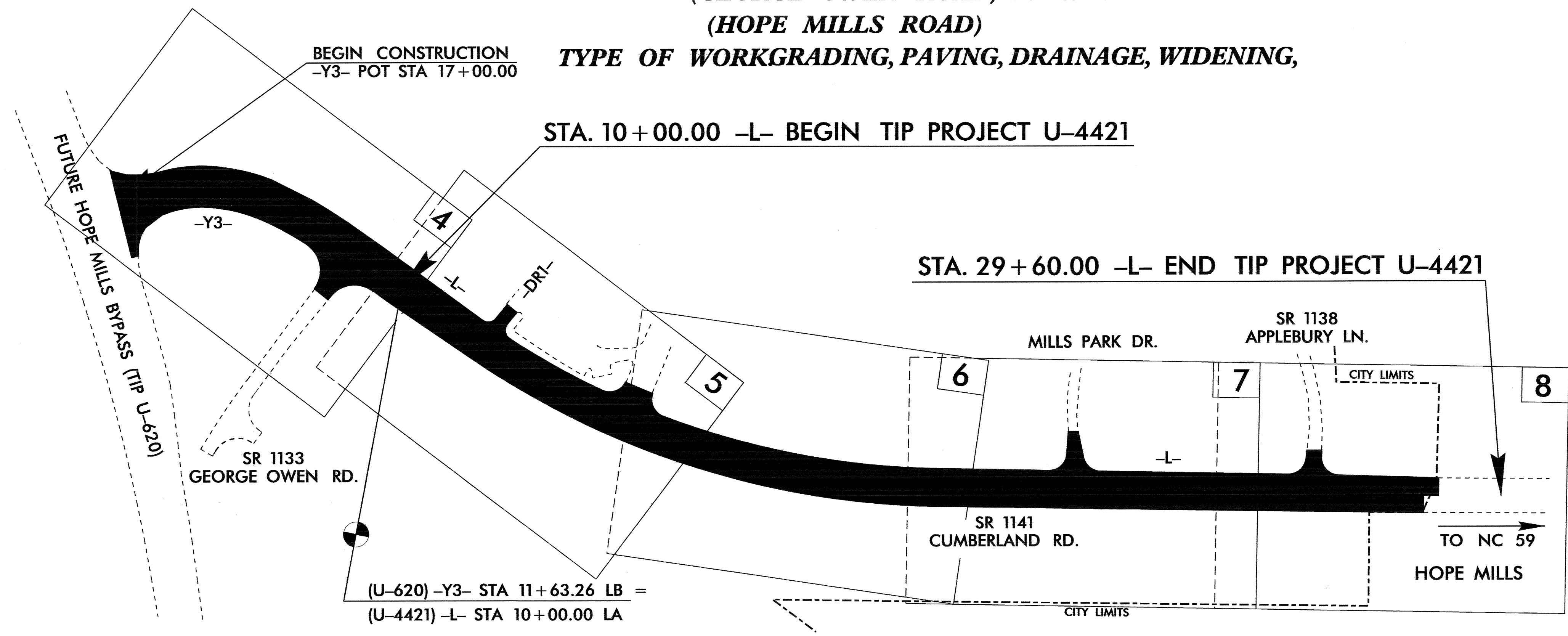
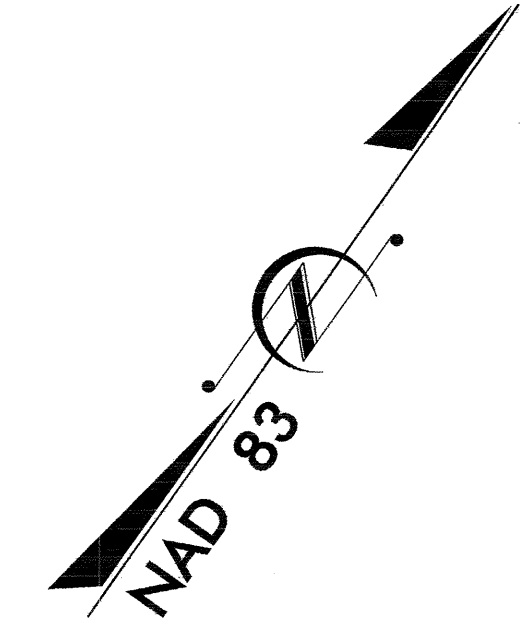


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4421	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

TIP PROJECT: U-4421

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
CUMBERLAND COUNTY

LOCATION: SR 1141 (CUMBERLAND ROAD), FROM SR 1133 (GEORGE OWEN ROAD) TO WEST OF NC 59 (HOPE MILLS ROAD)
TYPE OF WORKGRADING, PAVING, DRAINAGE, WIDENING,



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation.....	
1630.03	Temporary Silt Ditch.....	
1630.05	Temporary Diversion.....	
1605.01	Temporary Silt Fence.....	
1606.01	Special Sediment Control Fence.....	
1622.01	Temporary Berms and Slope Drains.....	
1630.01	Riser Basin.....	
1630.02	Silt Basin Type B.....	
1633.01	Temporary Rock Silt Check Type-A.....	
	Temporary Rock Silt Check Type-B.....	
1634.01	Temporary Rock Sediment Dam Type-A.....	
1634.02	Temporary Rock Sediment Dam Type-B.....	
1635.01	Rock Pipe Inlet Sediment Trap Type-A.....	
1635.02	Rock Pipe Inlet Sediment Trap Type-B.....	
1630.04	Stilling Basin.....	
	Rock Inlet Sediment Trap:	
1632.01	Type A.....	
1632.02	Type B.....	
1632.03	Type C.....	
	Skimmer Basin.....	
	Tiered Skimmer Basin.....	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
 2006 STANDARD SPECIFICATIONS

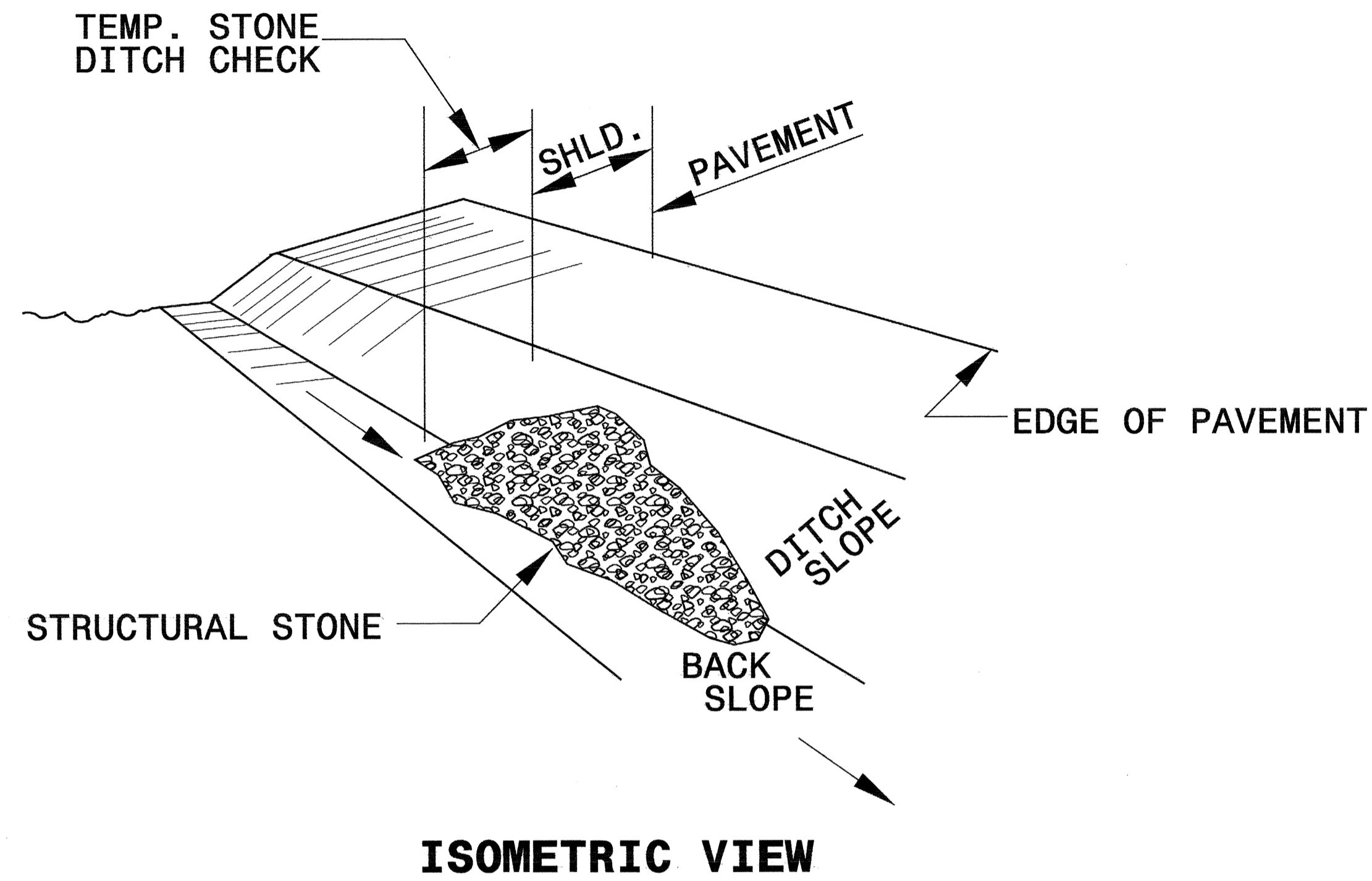
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	

PROJECT REFERENCE NO. U-4421	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

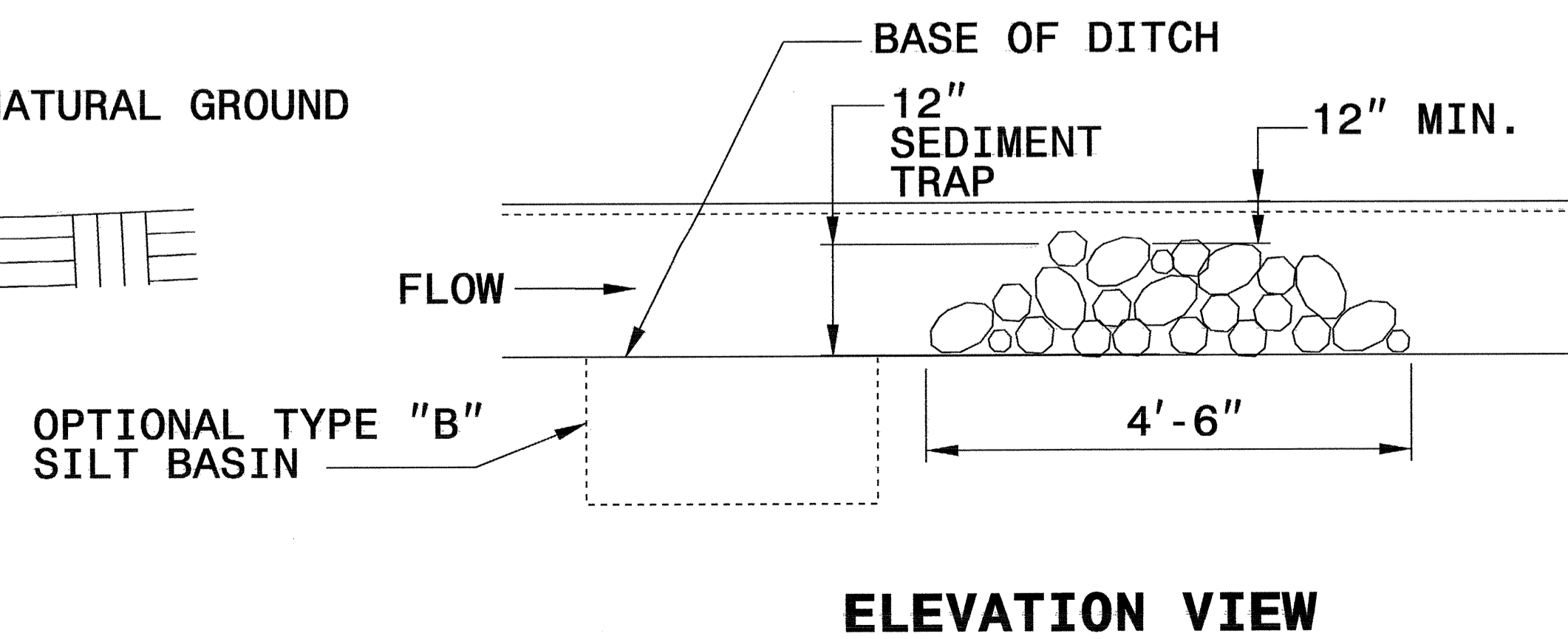
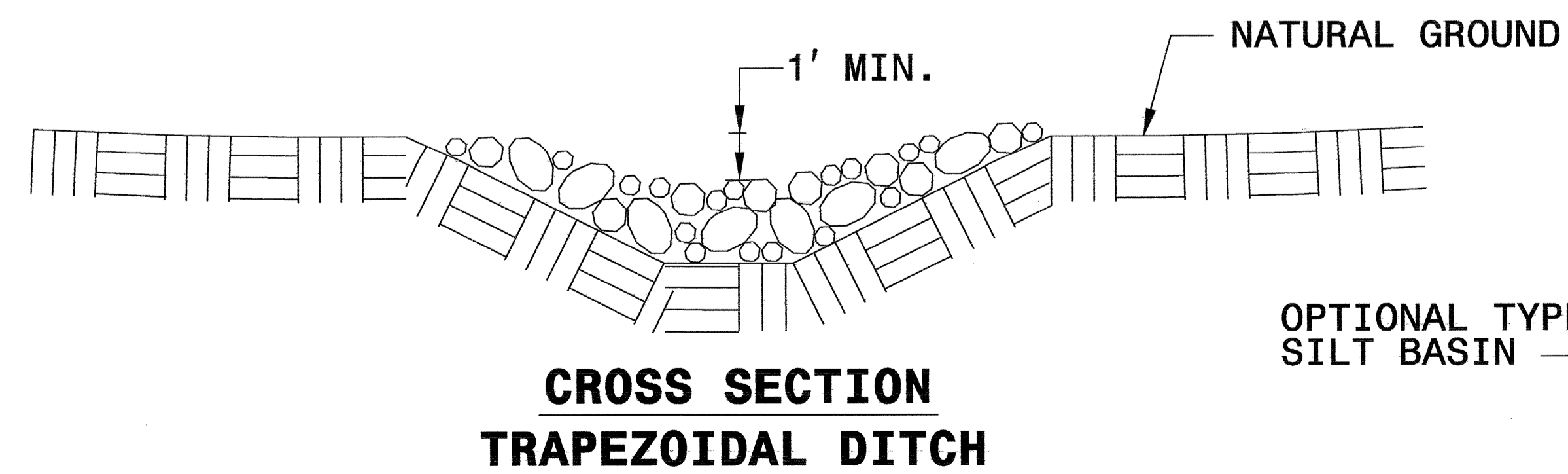
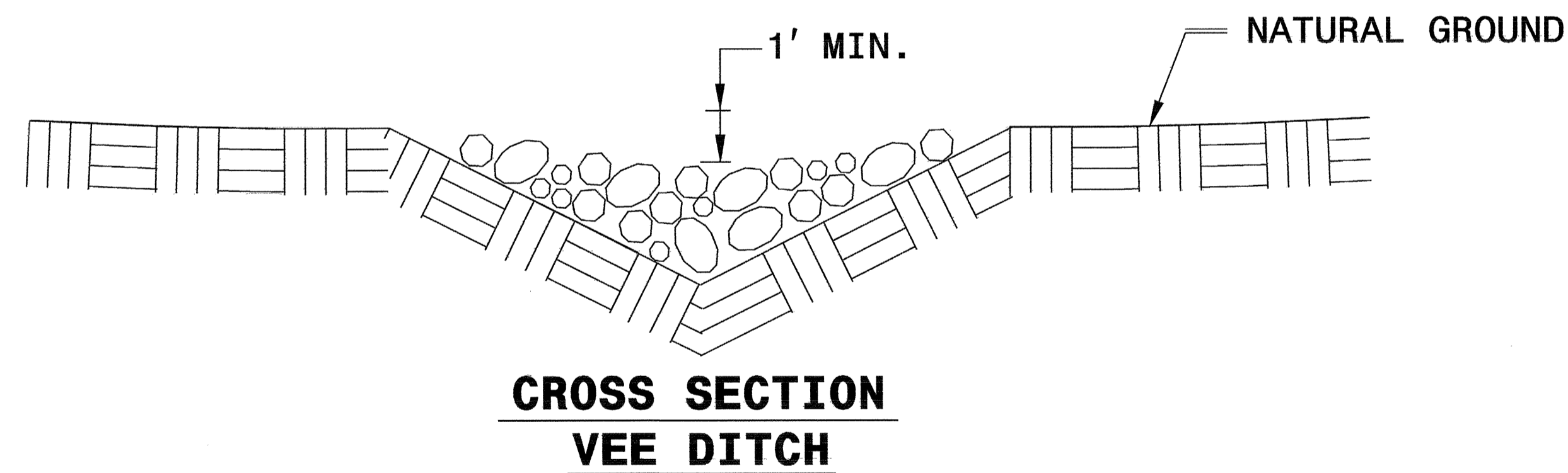
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

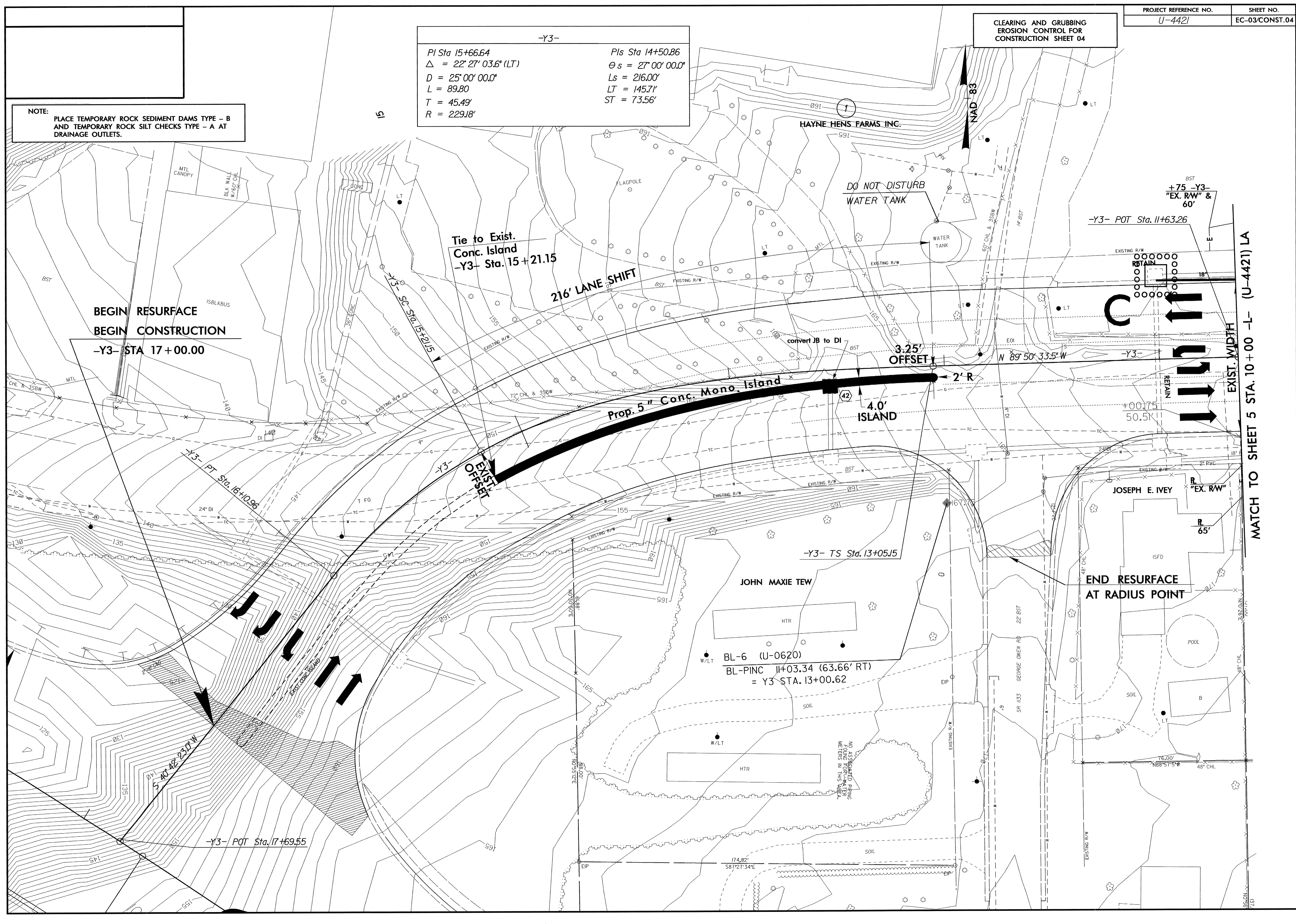
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

-Y3-
PI Sta 15+66.64 Pls Sta 14+50.86
 $\Delta = 22^\circ 27' 03.6" (LT)$ $\theta_s = 27^\circ 00' 00.0"$
 $D = 25^\circ 00' 00.0"$ $L_s = 216.00'$
 $L = 89.80$ $LT = 145.71'$
 $T = 45.49'$ $ST = 73.56'$
 $R = 229.18'$

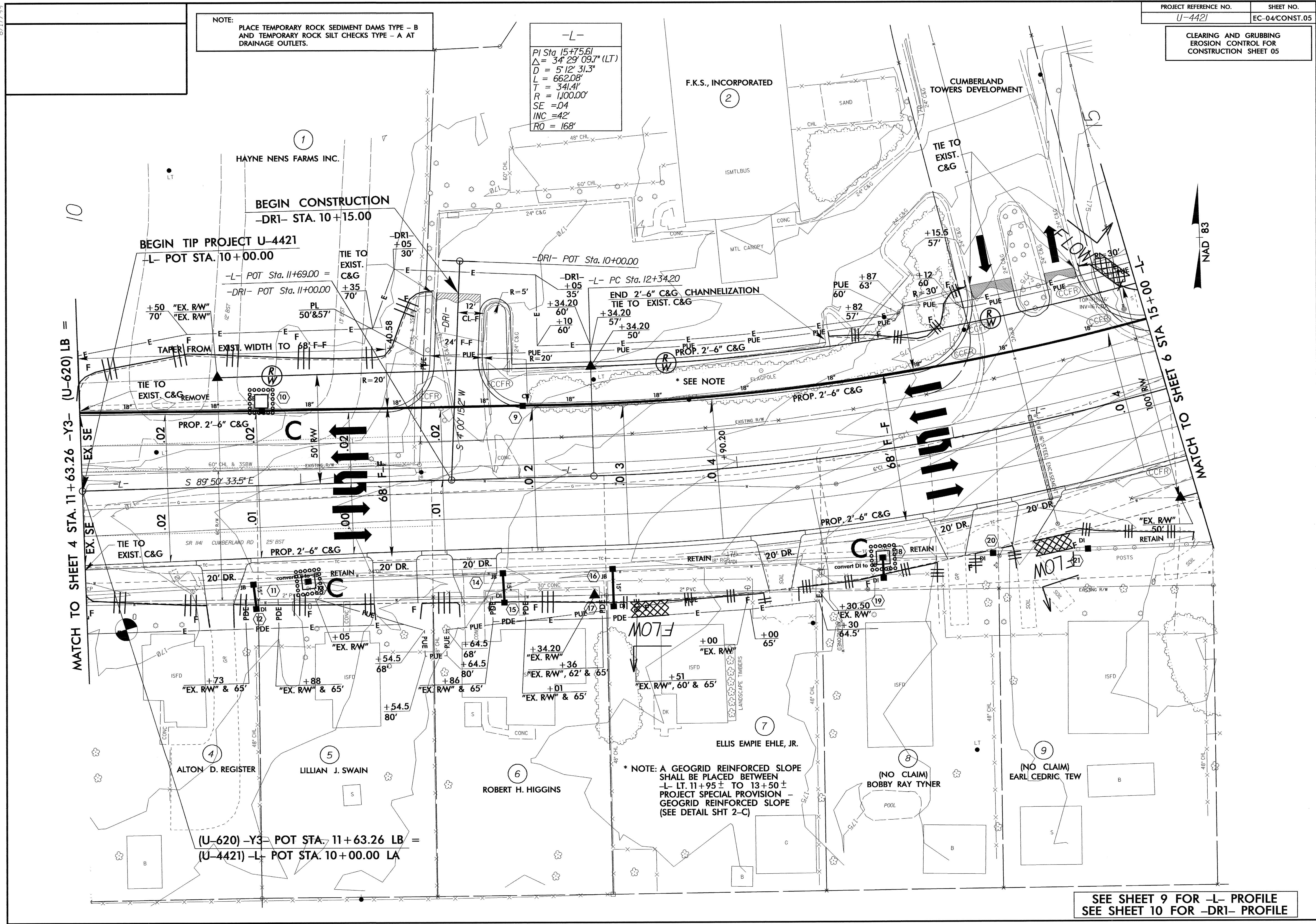
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



MATCH TO SHEET 5 STA. 10+00 -L- (U-4421) LA

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

-L-
 PI Sta. 15+75.61
 $\Delta = 34^{\circ} 29' 09.7''$ (LT)
 $D = 5' 12' 31.3''$
 $L = 662.08'$
 $T = 341.41'$
 $R = 1,100.00'$
 $SE = .04$
 $INC = 42^{\circ}$
 $RO = 168'$



10

MATCH TO SHEET 4 STA. 11+63.26 -Y3- (U-620) LB =

MATCH TO SHEET 6 STA 15+00+00 -L- (U-620) LB =

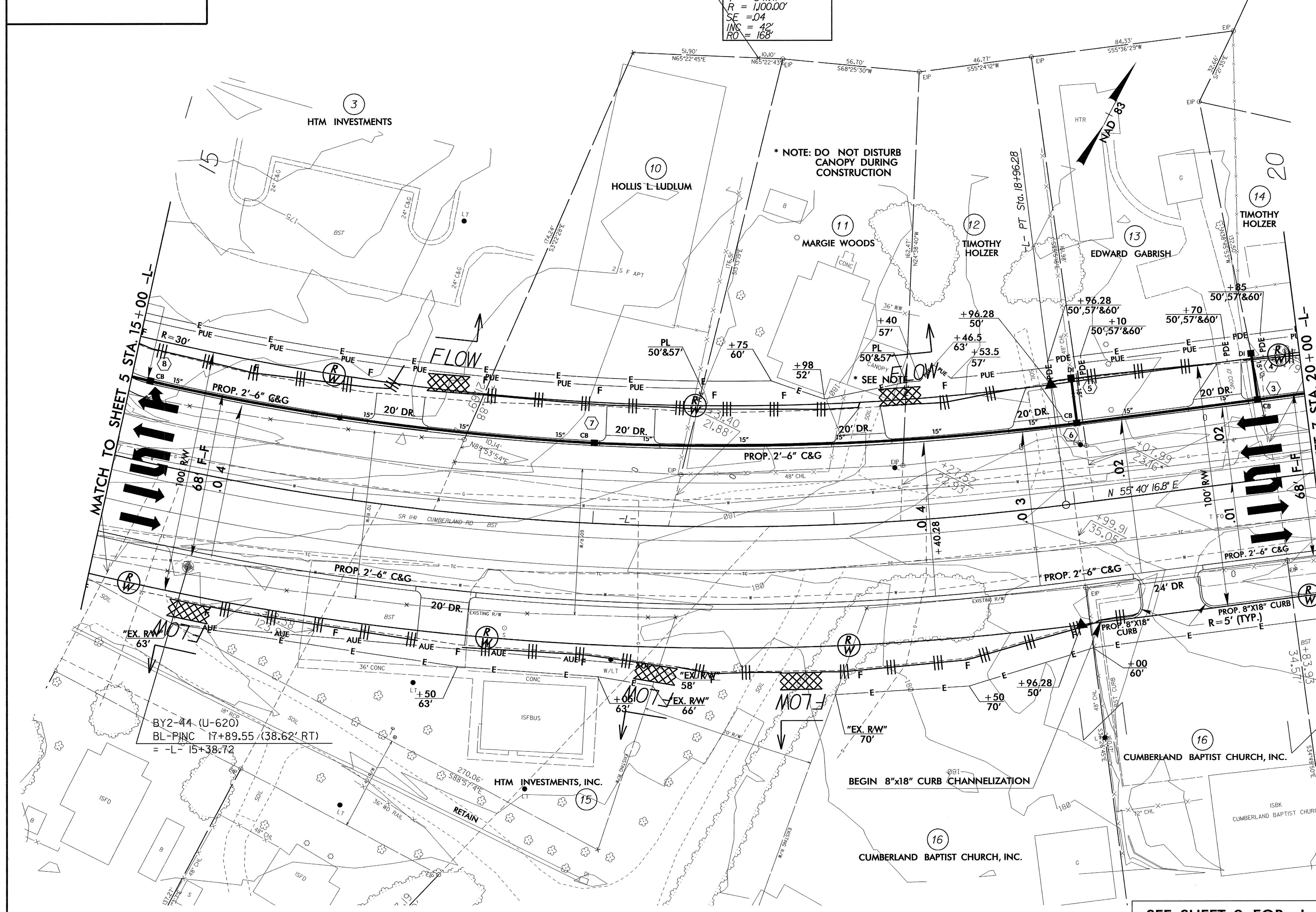
(U-620) -Y3- POT STA. 11+63.26 LB =
 (U-4421) -L- POT STA. 10+00.00 LA

* NOTE: A GEOGRID REINFORCED SLOPE SHALL BE PLACED BETWEEN -L- LT. 11+95± TO 13+50± PROJECT SPECIAL PROVISION - GEOGRID REINFORCED SLOPE (SEE DETAIL SHT 2-C)

SEE SHEET 9 FOR -L- PROFILE
 SEE SHEET 10 FOR -DRI- PROFILE

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

-L-
PI Sta 15+75.61
Δ = 34' 29" 09.7" (LT)
D = 5' 12" 31.3"
L = 662.08'
T = 341.41'
R = 1,100.00'
SE = .04
INC = 42'
RO = 168'



MATCH TO SHEET 5 STA. 15+00 -L-

MATCH TO SHEET 7 STA. 20+00 -L-

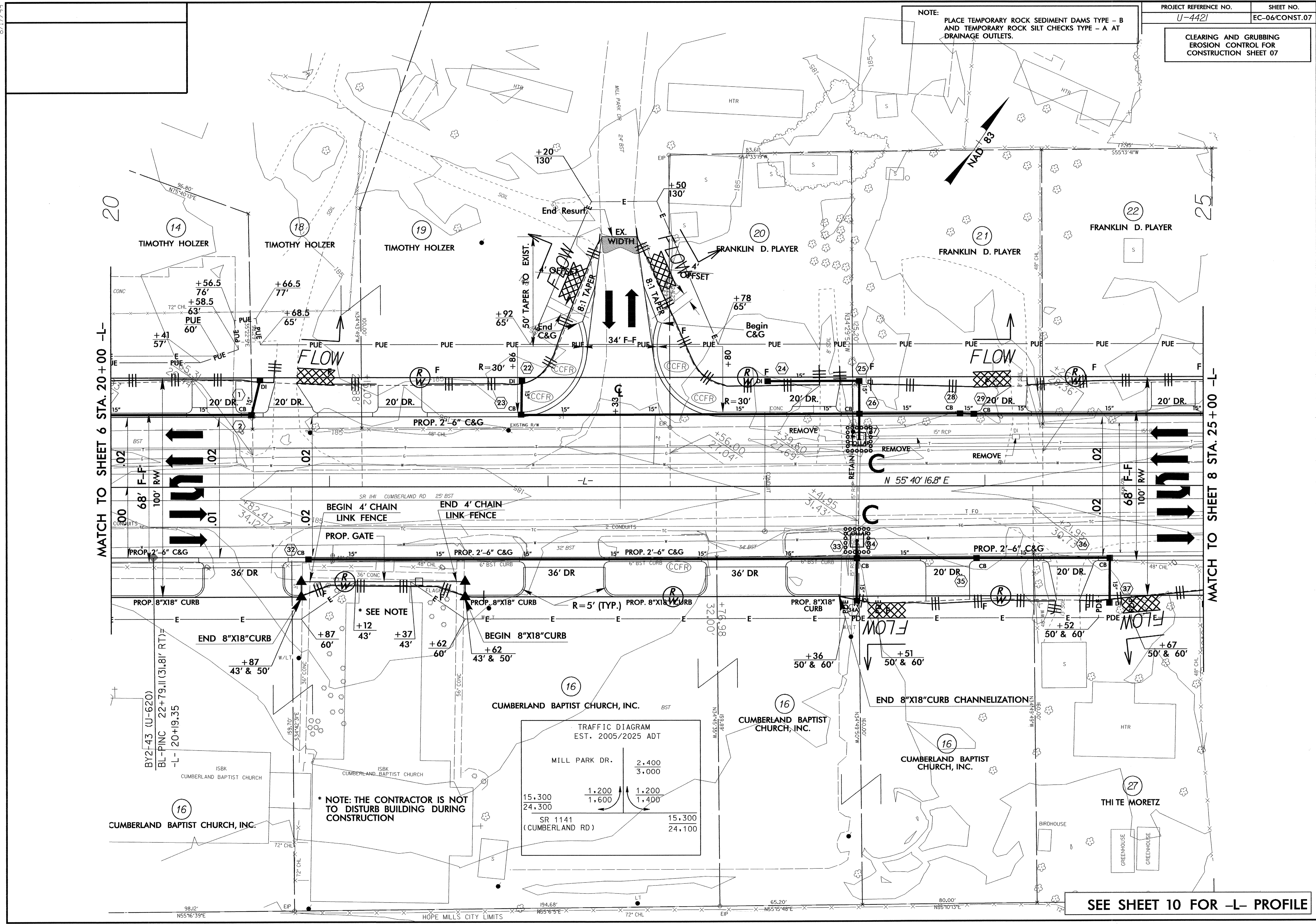
BY2-44 (U-620)
BL-PINC 17+89.55 (38.62' RT)
= -L- 15+38.72

SEE SHEET 9 FOR -L- PROFILE

8/17/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



MATCH TO SHEET 6 STA. 20+00 -L-

MATCH TO SHEET 8 STA. 25+00 -L-

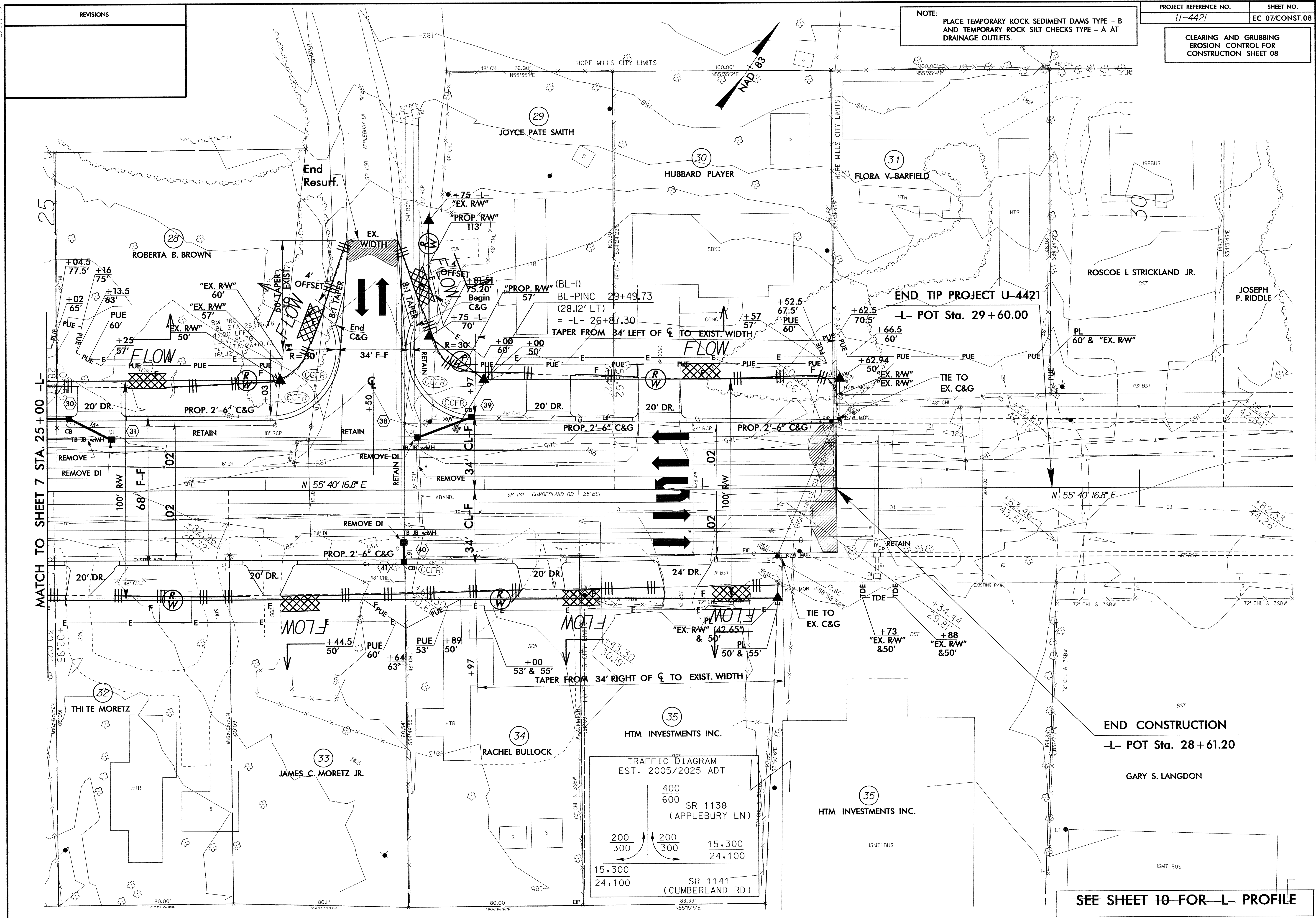
* NOTE: THE CONTRACTOR IS NOT
TO DISTURB BUILDING DURING
CONSTRUCTION

SEE SHEET 10 FOR -L- PROFILE

REVISIONS

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 08

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



MATCH TO SHEET 7 STA. 25+00 -L-

END CONSTRUCTION
-L- POT Sta. 28+61.20

GARY S. LANGDON

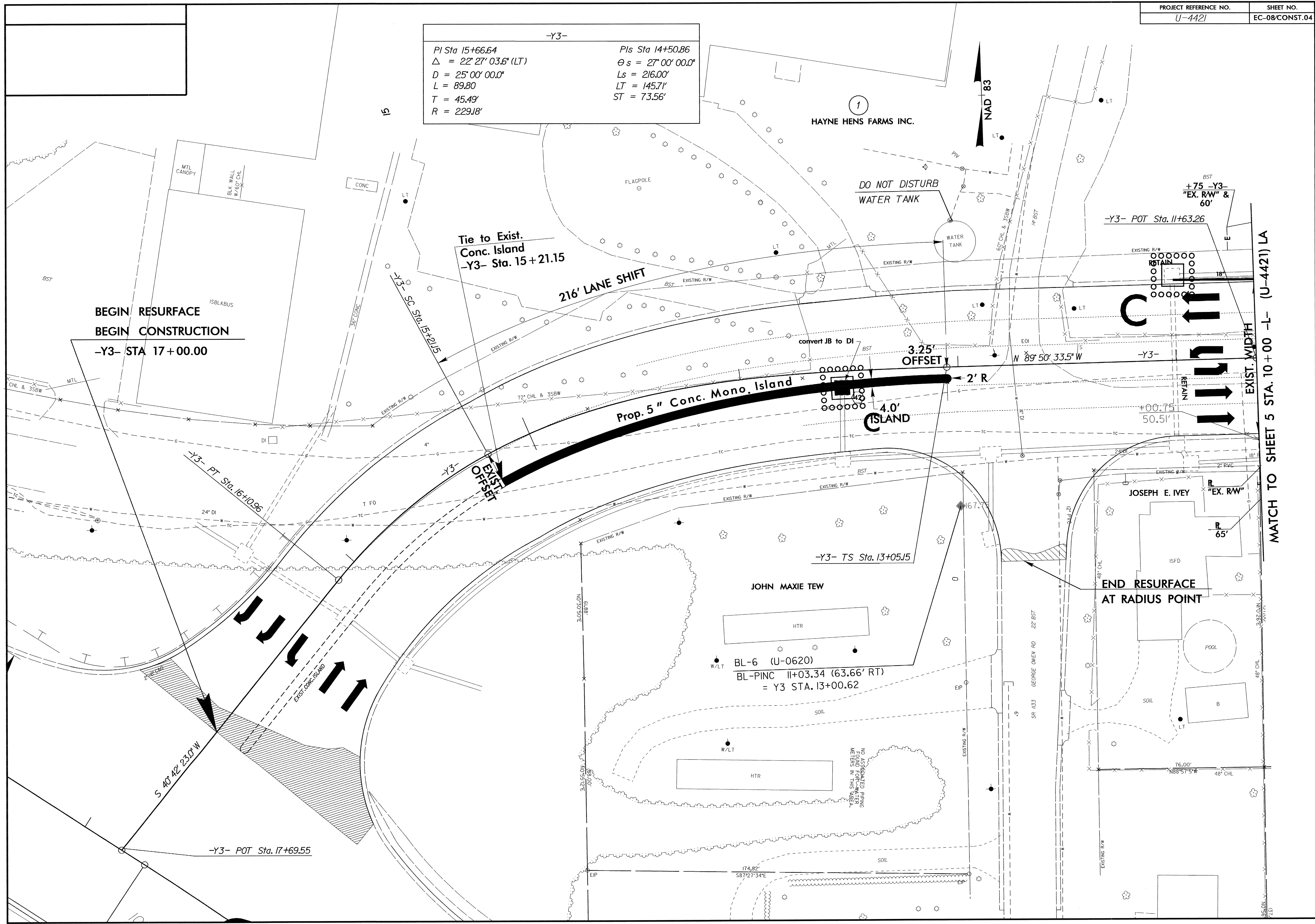
TRAFFIC DIAGRAM
EST. 2005/2025 ADT

400	400	15,300
600	600	24,100
SR 1138 (APPLEBURY LN)		
200	200	15,300
300	300	24,100
SR 1141 (CUMBERLAND RD)		

SEE SHEET 10 FOR -L- PROFILE

-Y3-

PI Sta 15+66.64	Pls Sta 14+50.86
$\Delta = 22^\circ 27' 03.6" (LT)$	$\Theta s = 27^\circ 00' 00.0"$
$D = 25^\circ 00' 00.0"$	$Ls = 216.00'$
$L = 89.80$	$LT = 145.71'$
$T = 45.49'$	$ST = 73.56'$
$R = 22918'$	



BEGIN RESURFACE
BEGIN CONSTRUCTION
-Y3- STA 17+00.00

Tie to Exist.
Conc. Island
-Y3- Sta. 15+21.15

216' LANE SHIFT

Prop. 5" Conc. Mono. Island

DO NOT DISTURB
WATER TANK

+75 -Y3-
"EX. R/W" &
60'

-Y3- POT Sta. 11+63.26

3.25'
OFFSET

2' R

4.0'
ISLAND

+00.75
50.51'

-Y3- PT Sta. 16+10.96

-Y3- TS Sta. 13+05.15

END RESURFACE
AT RADIUS POINT

BL-6 (U-0620)
BL-PINC 11+03.34 (63.66' RT)
= Y3 STA. 13+00.62

-Y3- POT Sta. 17+69.55

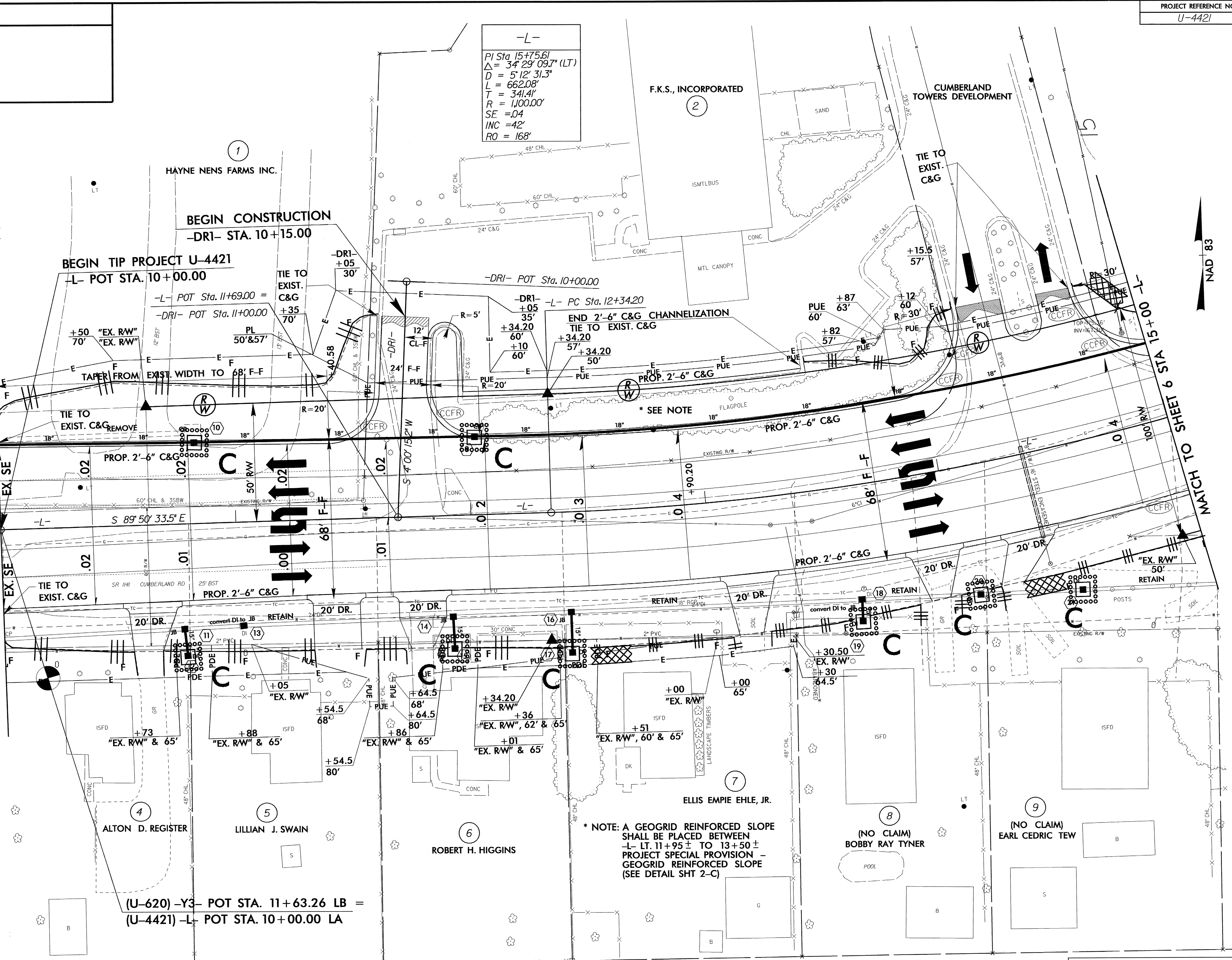
MATCH TO SHEET 5 STA. 10+00 -L- (U-4421) LA

8/17/99

-L-
 PI Sta. 15+75.61
 $\Delta = 34^{\circ} 29' 09.7''$ (LT)
 $D = 5' 12' 31.3''$
 $L = 662.08'$
 $T = 341.41'$
 $R = 1,100.00'$
 $SE = .04$
 $INC = 42'$
 $RO = 168'$

10

MATCH TO SHEET 4 STA. 11+63.26 -Y3- (U-620) LB =



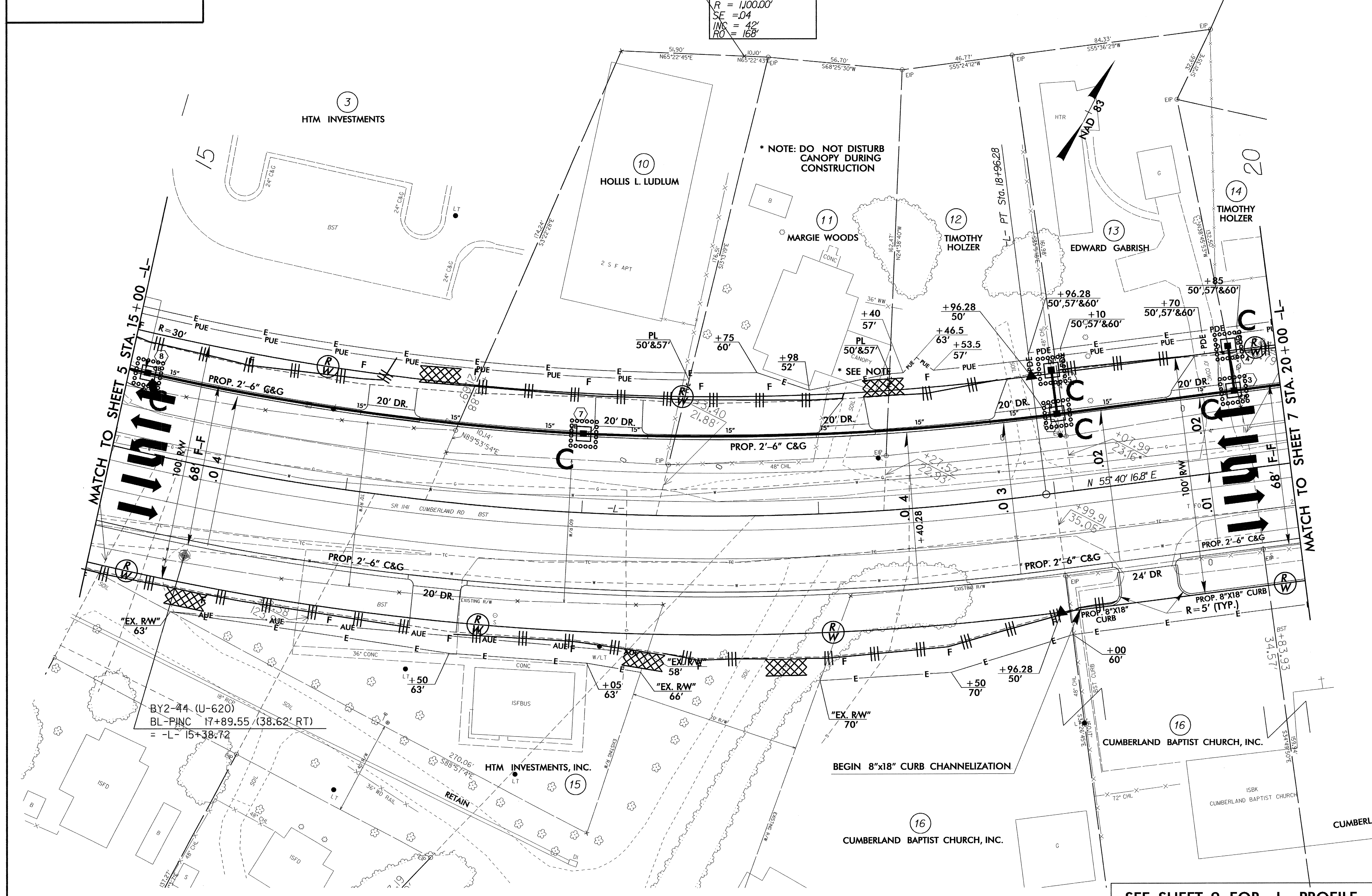
* NOTE: A GEOGRID REINFORCED SLOPE SHALL BE PLACED BETWEEN -L- LT. 11+95 ± TO 13+50 ± PROJECT SPECIAL PROVISION - GEOGRID REINFORCED SLOPE (SEE DETAIL SHT 2-C)

(U-620) -Y3- POT STA. 11+63.26 LB =
 (U-4421) -L- POT STA. 10+00.00 LA

SEE SHEET 9 FOR -L- PROFILE
 SEE SHEET 10 FOR -DRI- PROFILE

8/17/99

-L-
 PI Sta 15+75.61
 $\Delta = 34' 29'' 09.7''$ (LT)
 $D = 5' 12'' 31.3''$
 $L = 662.08'$
 $T = 341.4'$
 $R = 1,100.00'$
 $SE = .04$
 $INC = 42'$
 $RO = 168'$



MATCH TO SHEET 5 STA. 15+00 -L-

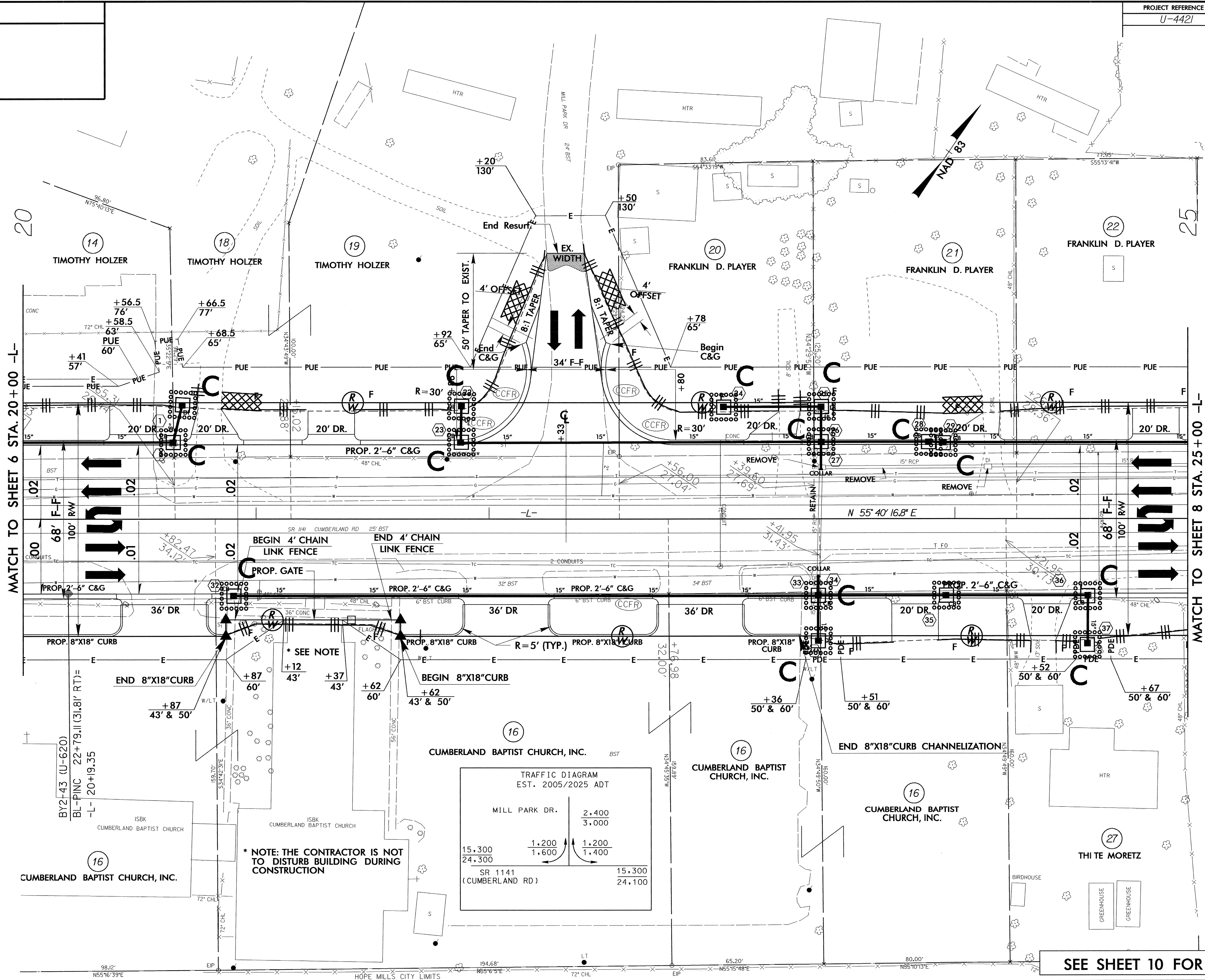
MATCH TO SHEET 7 STA. 20+00 -L-

BY2-44 (U-620)
 BL-PINC 17+89.55 (38.62' RT)
 = -L- 15+38.72

BEGIN 8"x18" CURB CHANNELIZATION

SEE SHEET 9 FOR -L- PROFILE

8/17/79



TRAFFIC DIAGRAM
EST. 2005/2025 ADT

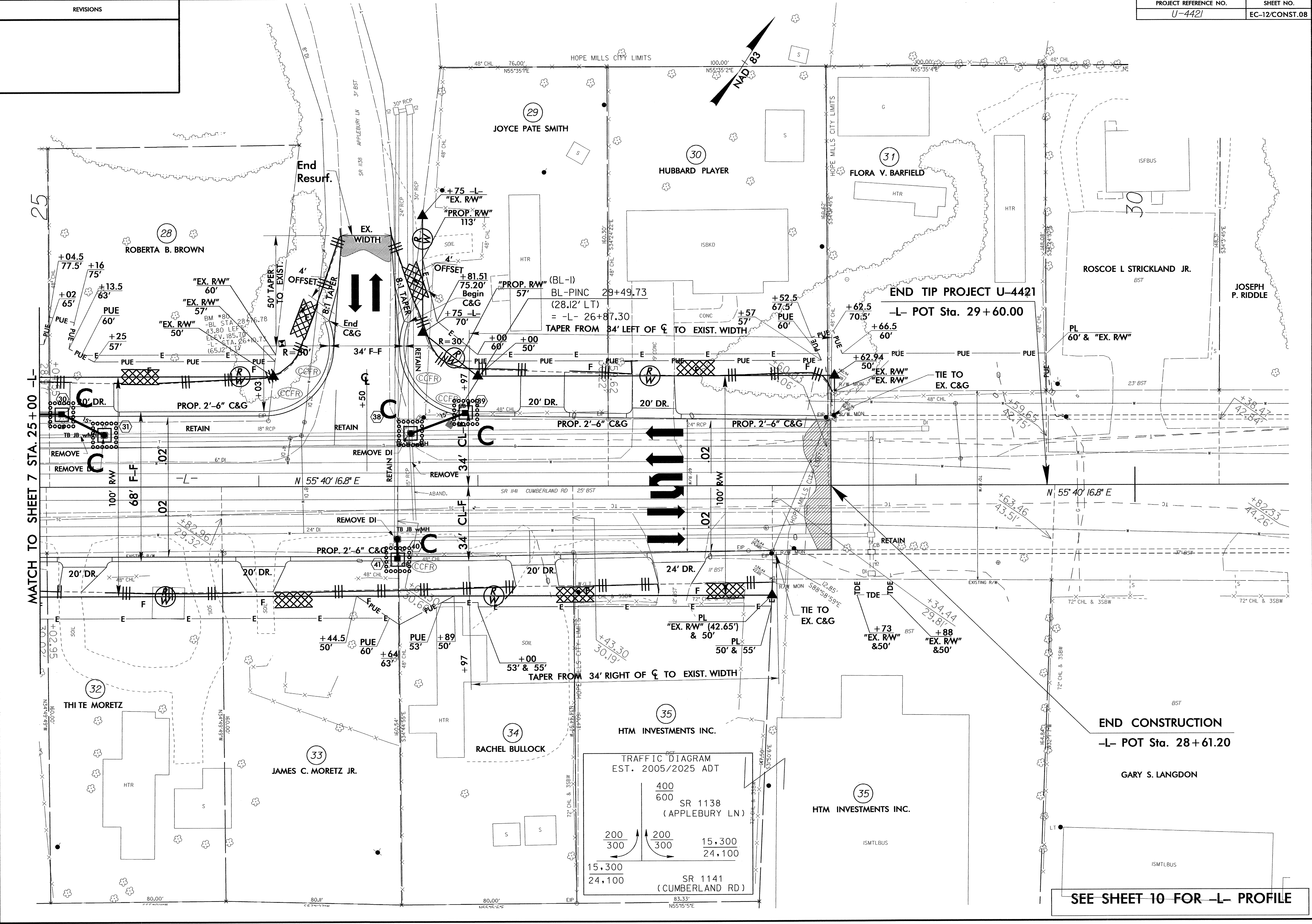
MILL PARK DR.		2,400	3,000
15,300	1,200	1,200	1,400
24,300	1,600	1,600	1,400
SR 1141 (CUMBERLAND RD)		15,300	24,100

* NOTE: THE CONTRACTOR IS NOT TO DISTURB BUILDING DURING CONSTRUCTION

SEE SHEET 10 FOR -L- PROFILE

8/17/99

REVISIONS



TRAFFIC DIAGRAM
EST. 2005/2025 ADT

400	600	
SR 1138 (APPLEBURY LN)		
200	200	15,300
300	300	24,100
SR 1141 (CUMBERLAND RD)		
15,300		24,100

END CONSTRUCTION
-L- POT Sta. 28+61.20

GARY S. LANGDON

SEE SHEET 10 FOR -L- PROFILE