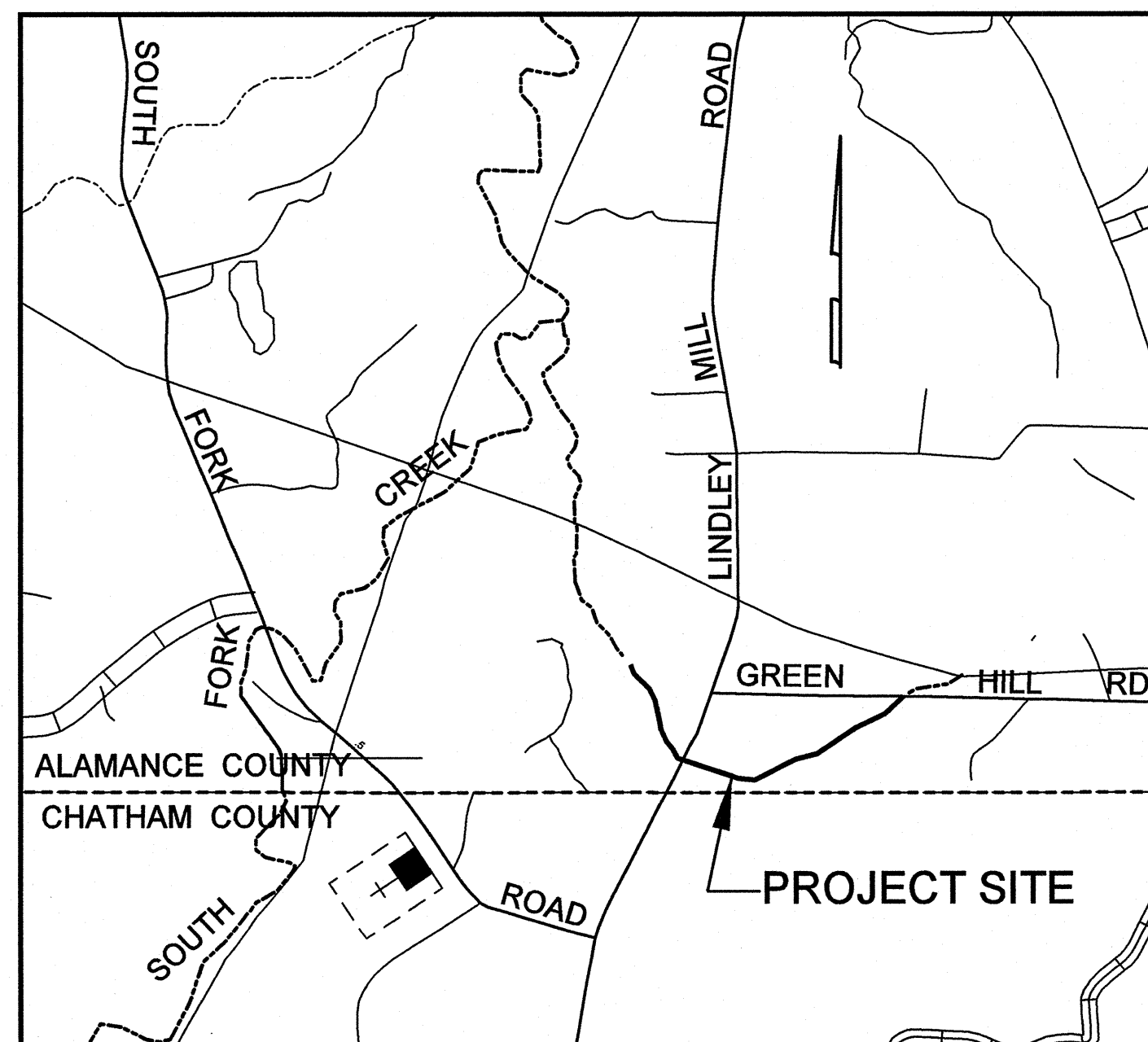
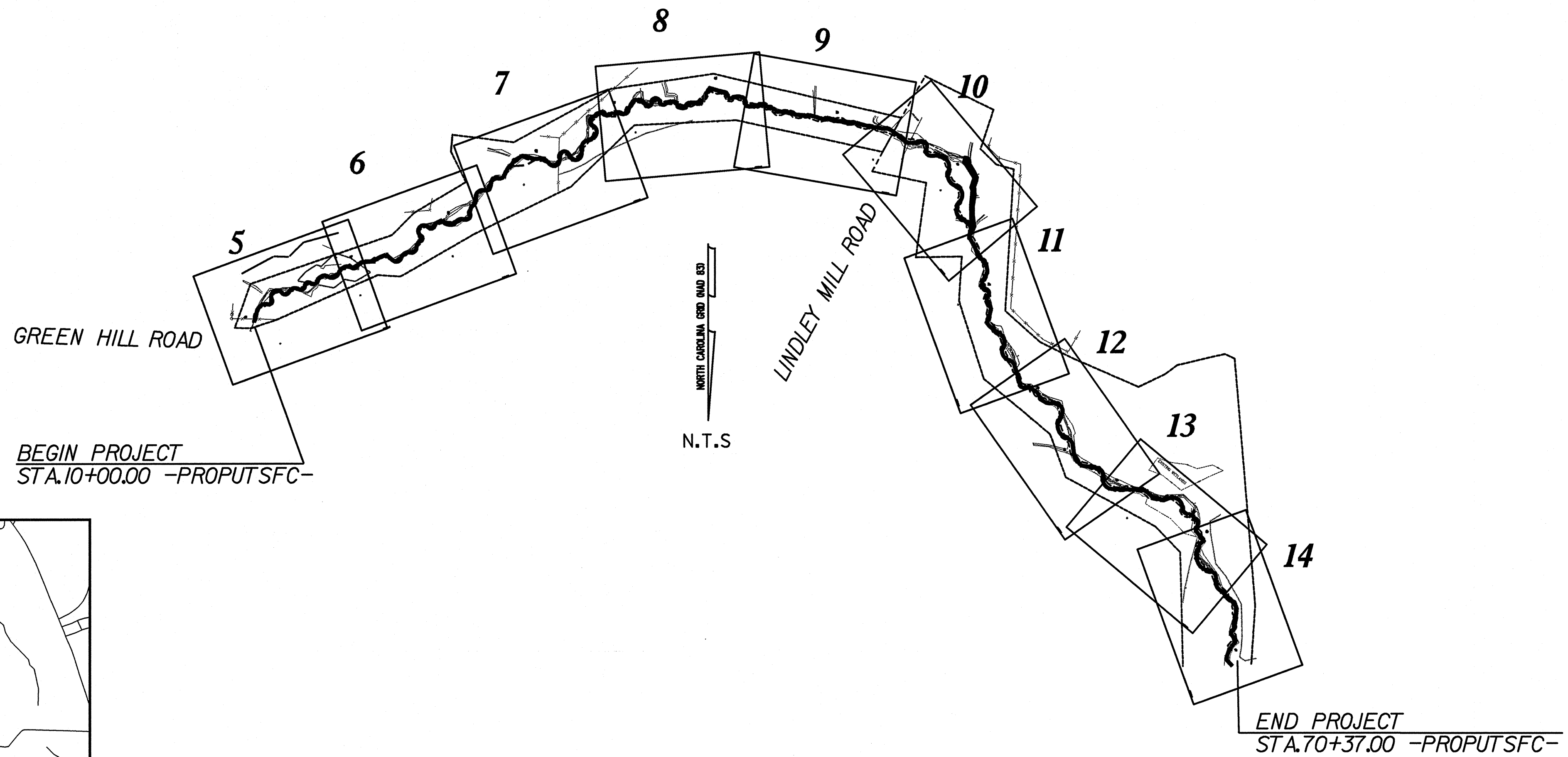


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 DIVISION OF WATER QUALITY
 NORTH CAROLINA WETLANDS RESTORATION PROGRAM

NATURAL CHANNEL DESIGN STREAM RESTORATION PROJECT

UT TO SOUTH FORK CREEK
 ALAMANCE & CHATHAM COUNTIES, NORTH CAROLINA



VICINITY MAP

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INDEX OF SHEETS

SHEETS NO.	CONTENTS
1	TITLE SHEET
2	LEGEND
3	TYPICAL SECTIONS
4 - 13	PLAN SHEETS
14 - 24	PROFILE SHEETS

DESIGN ENGINEER

LEGEND

ROADS & RELATED ITEMS

Prop. Woven Wire Fence	
Prop. Chain Link Fence	
Prop. Barbed Wire Fence	
Existing Fence	
Exist. Guardrail	
Prop. Guardrail	
Equality Symbol	

RIGHT OF WAY

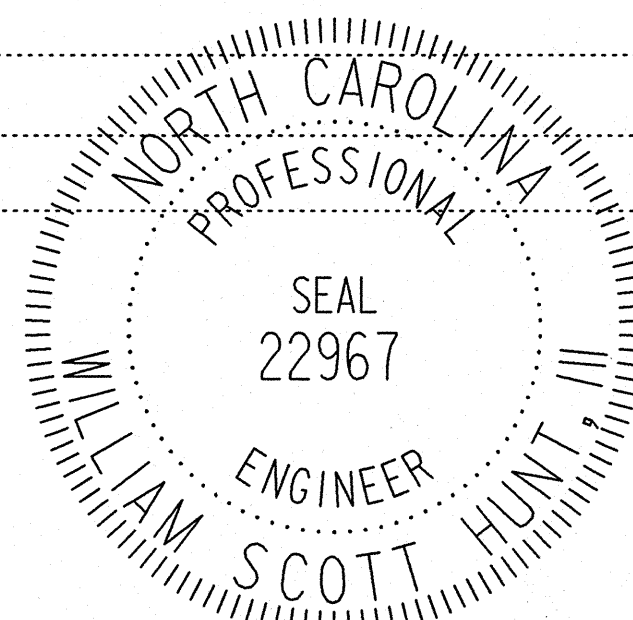
Right of Way Marker	
Exist. Right of Way Line w/Marker	
Prop. Right of Way Line (by others)	
Prop. Right of Way Line (by contract)	
Exist. Control of Access Line	
Prop. Control of Access Line	
Exist. Easement Line	
Prop. Temp. Construction Easement Line	
Prop. Temp. Drainage Easement Line	
Prop. Perm. Drainage Easement Line	

BOUNDARIES & PROPERTIES

Property Line Surveyed	
Property Line Not Surveyed	
Exist. Iron Pin	
Property Corner	
Property Monument	
Property Number	
Parcel Number	
Fence Line	
Existing Wetland Boundaries	
Proposed Wetland Boundaries	
Buildings	
Foundations	

HYDROLOGY

Stream or Body of Water	
Flow Arrow	
Disappearing Stream	
Spring	
Shoreline	
Falls, Rapids	



SEAL NOT VALID UNLESS SIGNED AND DATED

UTILITIES

Exist. Pole	
Exist. Power Pole	
Exist. Telephone Pole	
Exist. Joint Use Pole	
Telephone Pedestal	
Cable TV Pedestal	
Hydrant	
Exist. Water Valve	
Sewer Clean Out	
Power Manhole	
Water Manhole	
Light Pole	
H-Frame Pole	
Power Line Tower	
Pole with Base	
Gas Valve	
Gas Meter	
Telephone Manhole	
Power Transformer	
Guy Wire Anchor	
Sanitary Sewer Manhole	
Storm Sewer Manhole	
Tank; Water, Gas, Oil	
Recorded Water Line	
Sanitary Sewer	
Recorded Sanitary Sewer Force Main	
Recorded Gas Line	
Storm Sewer	
Recorded Power Line	
Recorded Telephone Cable	
Recorded UG Telephone Conduit	
Unknown Utility	
Recorded Television Cable	
Recorded Fiber Optics Cable	
Exist. Water Meter	
Exist. Overhead Power Line	
Exist. Underground Utilities	

STRUCTURES

MAJOR	
Bridge, Tunnel, or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR	
Head & End Wall	
Pipe Culvert	
Footbridge	
Drainage Boxes	

TOPOGRAPHY

Bridge	
Box Culvert or Tunnel	
Culvert	
Footbridge	
Trail, Footpath	

STREAM IMPROVEMENTS

Approx. Location of Boulder Cross Vane	
Approx. Location of Boulder J-Hook Vane	
Approx. Location of Boulder Vane	
Approx. Location of Rootwad	
Approx. Location of Stream Plug	
Approx. Location of Boulder Step Pool	
Approx. Location of Boulder Step Pool Drain	
Approx. Location of Rock Drain	
Proposed Oxbox Pond/Wetland	
Approximate limits of Buffer	
Existing Thalweg	
Existing Top of Bank	
Proposed Thalweg	
Proposed Bankfull	
Slope Stake Line	

VEGETATION

Existing Woods Line	
Existing Tree	
Existing Ash	
Existing Beech	
Existing Birch	
Existing Box Elder	
Existing Cedar	
Existing Cherry	
Existing Dead Tree	
Existing Elm	
Existing Hackberry	
Existing Hickory	
Existing Holly	
Existing Hornbeam	
Existing Ironwood	
Existing Maple	
Existing Mulberry	
Existing Oak	
Existing Persimmon	
Existing Pine	
Existing Poplar	
Existing Redbud	
Existing Sweet Gum	
Existing Sycamore	
Existing Walnut	
Existing Willow	

Date: 8/30/06 File: ncar0117rev02013_headline by: auroa from baseline monitor for mg 50203 legend.dgn

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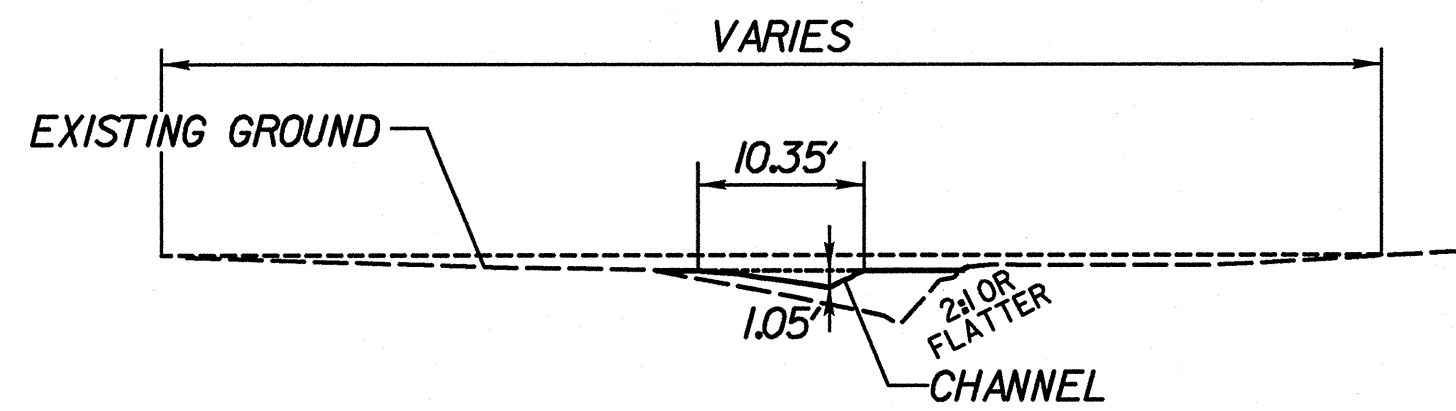
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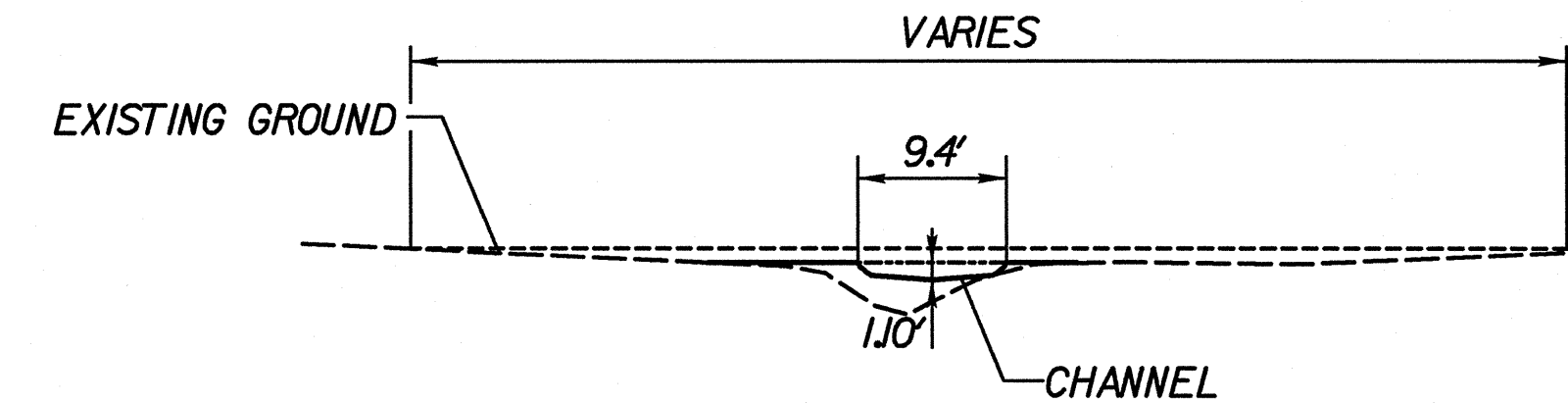
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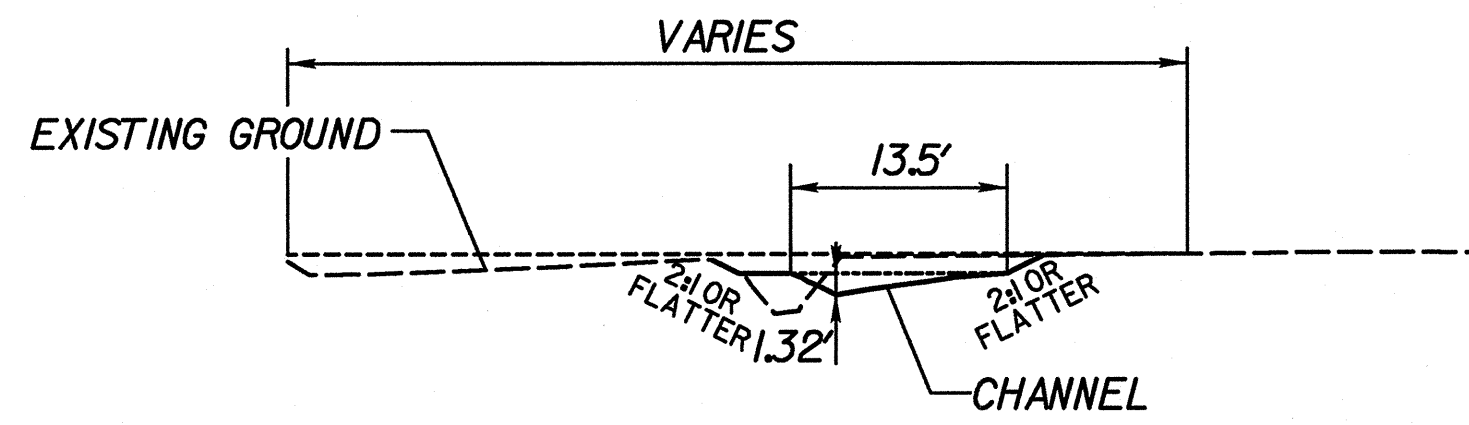
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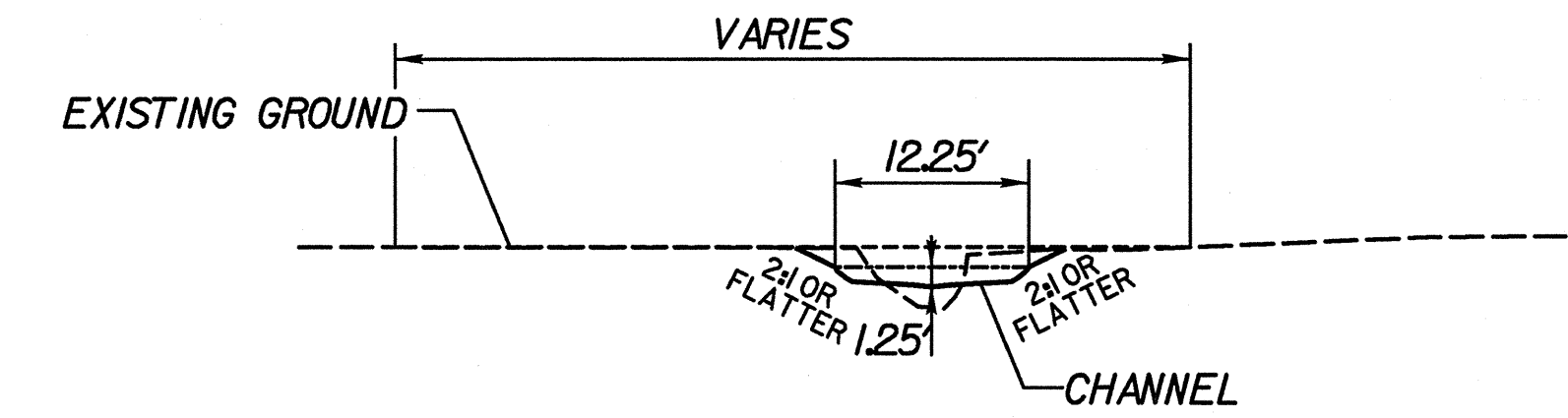
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STA. 10+00 TO 26+03



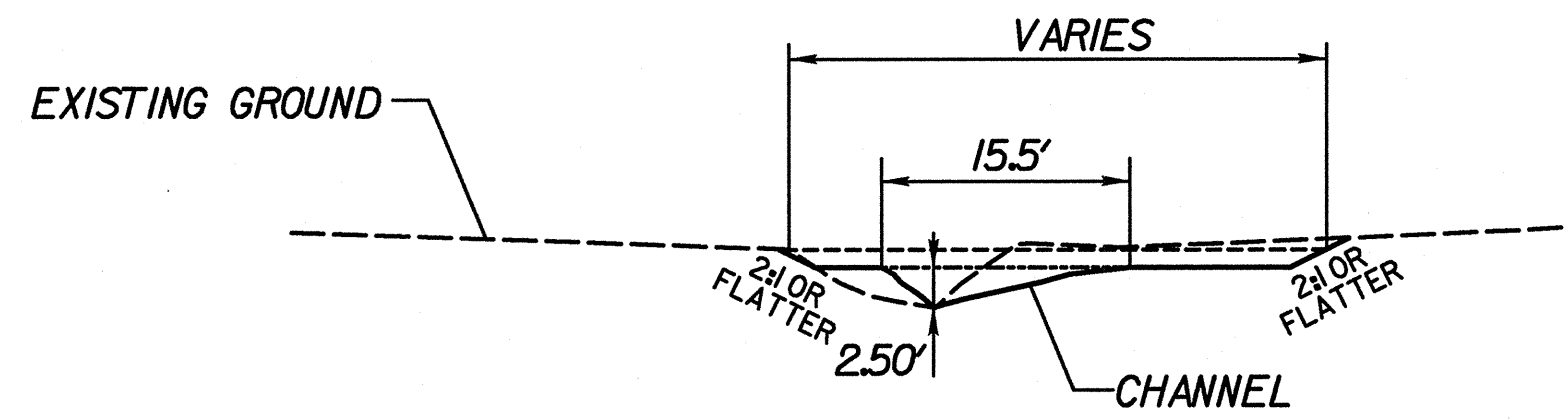
TYPICAL RIFFLE SUBREACH 1
STA. 10+00 TO 26+03



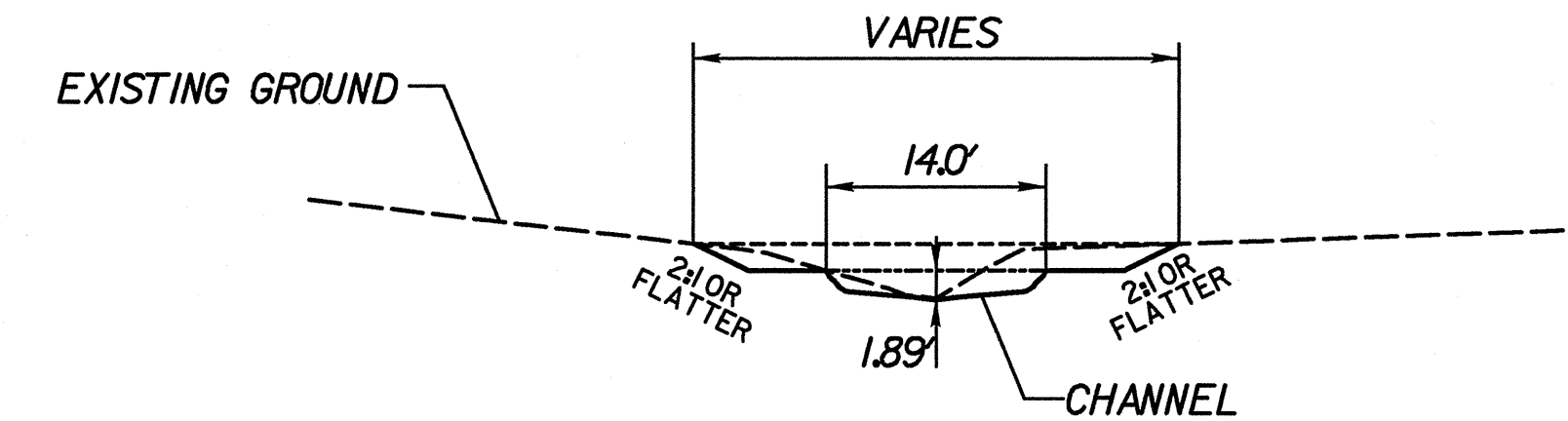
TYPICAL POOL SUBREACH 2
STA. 26+03 TO 33+05



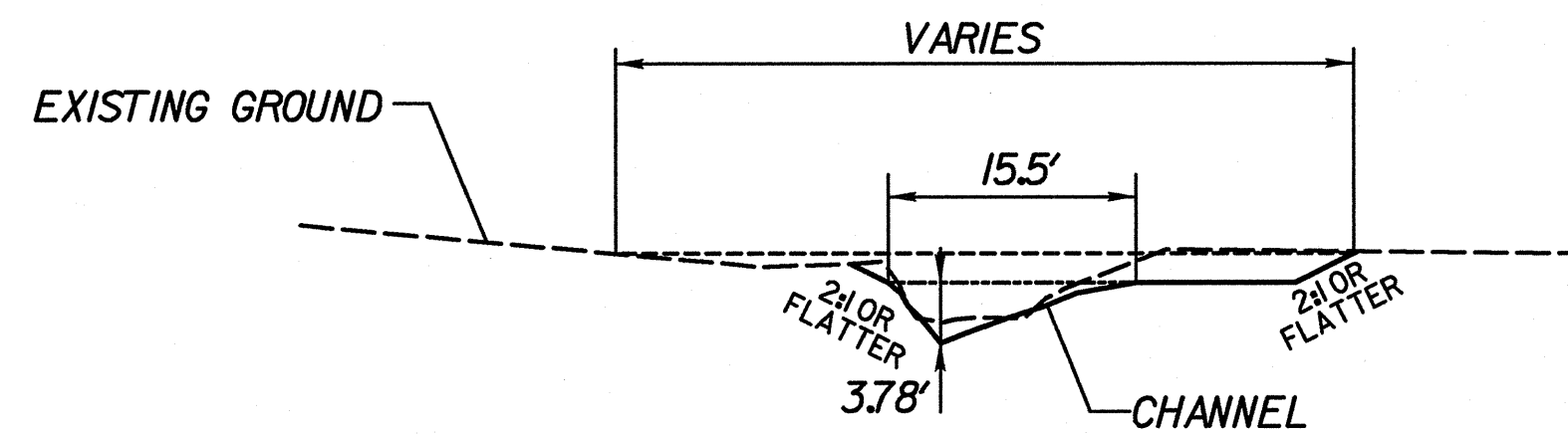
TYPICAL RIFFLE SUBREACH 2
STA. 26+03 TO 33+05



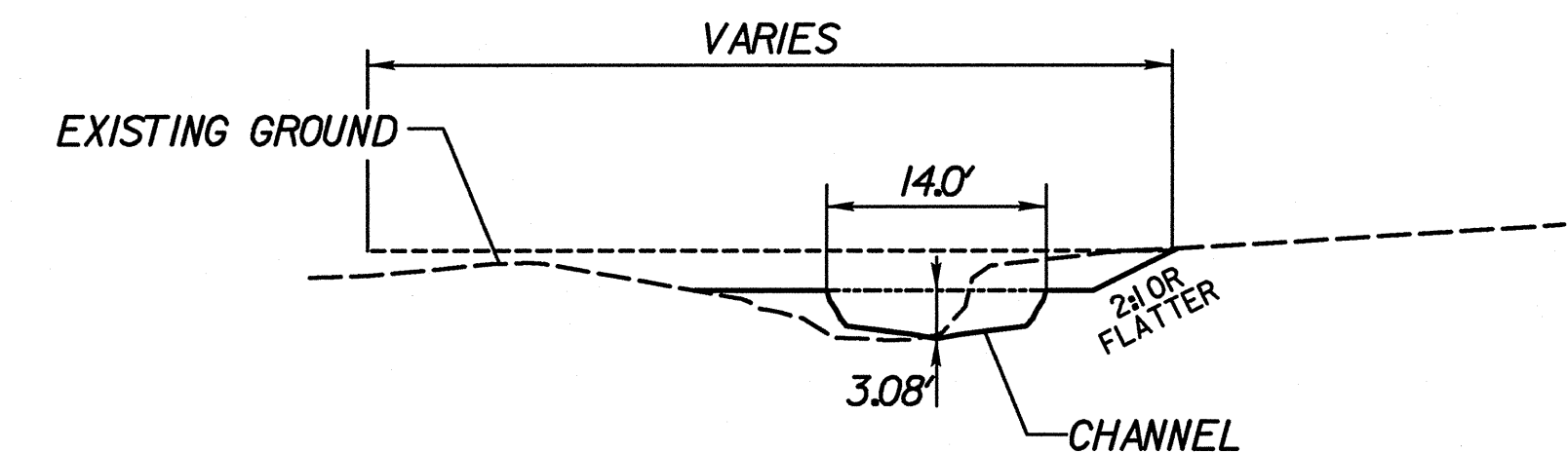
TYPICAL POOL SUBREACH 3
STA. 33+05 TO 42+10



TYPICAL RIFFLE SUBREACH 3
STA. 33+05 TO 42+10



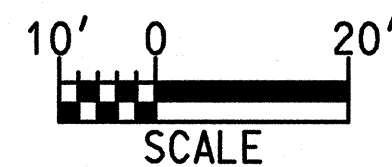
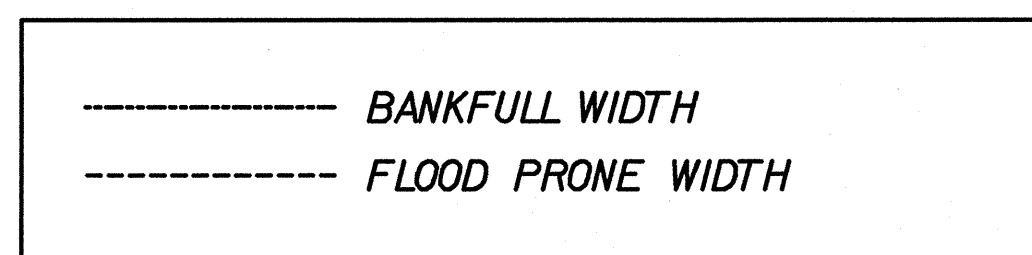
TYPICAL POOL SUBREACH 4
STA. 42+10 TO 70+40



TYPICAL RIFFLE SUBREACH 4
STA. 42+10 TO 70+40

TYPICAL SECTIONS

NTS



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SHEET NO. 3

Date: 8/29/2006
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BEGIN PROJECT STA. 10+00
BEGIN SUBREACH 1

NORTH CAROLINA GRID (NAD 83)

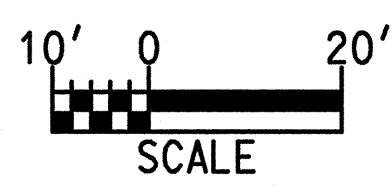
ABANDONED CHANNEL PLUGGED AND
BACKFILLED PER THE PROJECT
SPECIFICATIONS.

APPROXIMATE LOCATION
PERMANENT AT-GRADE
STREAM CROSSING

LIMIT OF CONSERVATION
EASEMENT PER PLAT MAP
PROVIDED BY LANDMARK
SURVEYING, INC.

GREEN HILL ROAD

MATCH LINE SHEET 5 STA. 15+00 -PROPUSFC-



Date: 8/23/2006
 File: ncar\g1\tr\60203\hobby\hydro\water\mon\baseline_monitoring\60203a04.dwg



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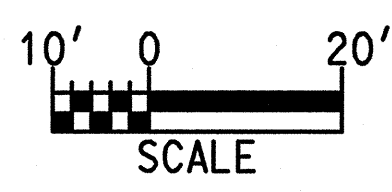
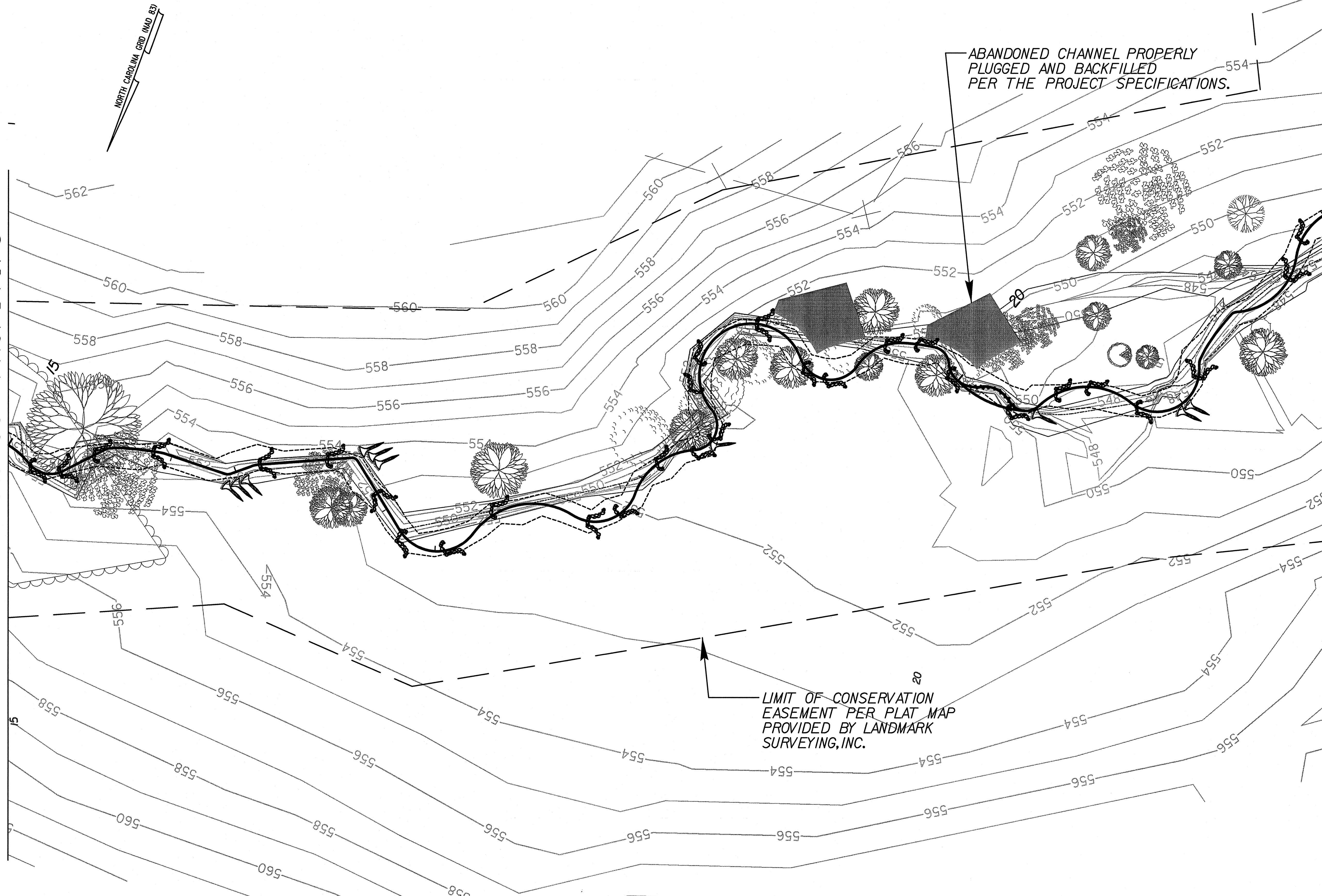
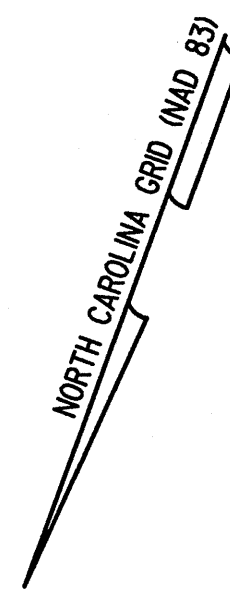
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SHEET NO. 4

MATCH LINE SHEET 4 STA. 15+00 -PROPUTSFC-

MATCH LINE SHEET 6 STA. 22+00 -PROPUTSFC-



Date: 8/23/2006
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UT TO SOUTH FORK CREEK
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SHEET NO. 5

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MATCH LINE SHEET 8 STA. 37+00 -PROPUSFC-

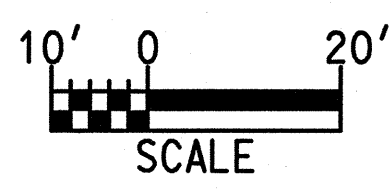
ABANDONED CHANNEL PROPERLY PLUGGED AND BACKFILLED PER THE PROJECT SPECIFICATIONS. EXISTING OXBOW RETAINED AND BACKFILLED TO CREATE AN OXBOW POND

CONFLUENCE END SUBREACH 2 BEGIN SUBREACH 3

ROCK DRAIN

LIMIT OF CONSERVATION EASEMENT PER PLAT MAP PROVIDED BY LANDMARK SURVEYING, INC.

NORTH CAROLINA GRID (NAD 83)



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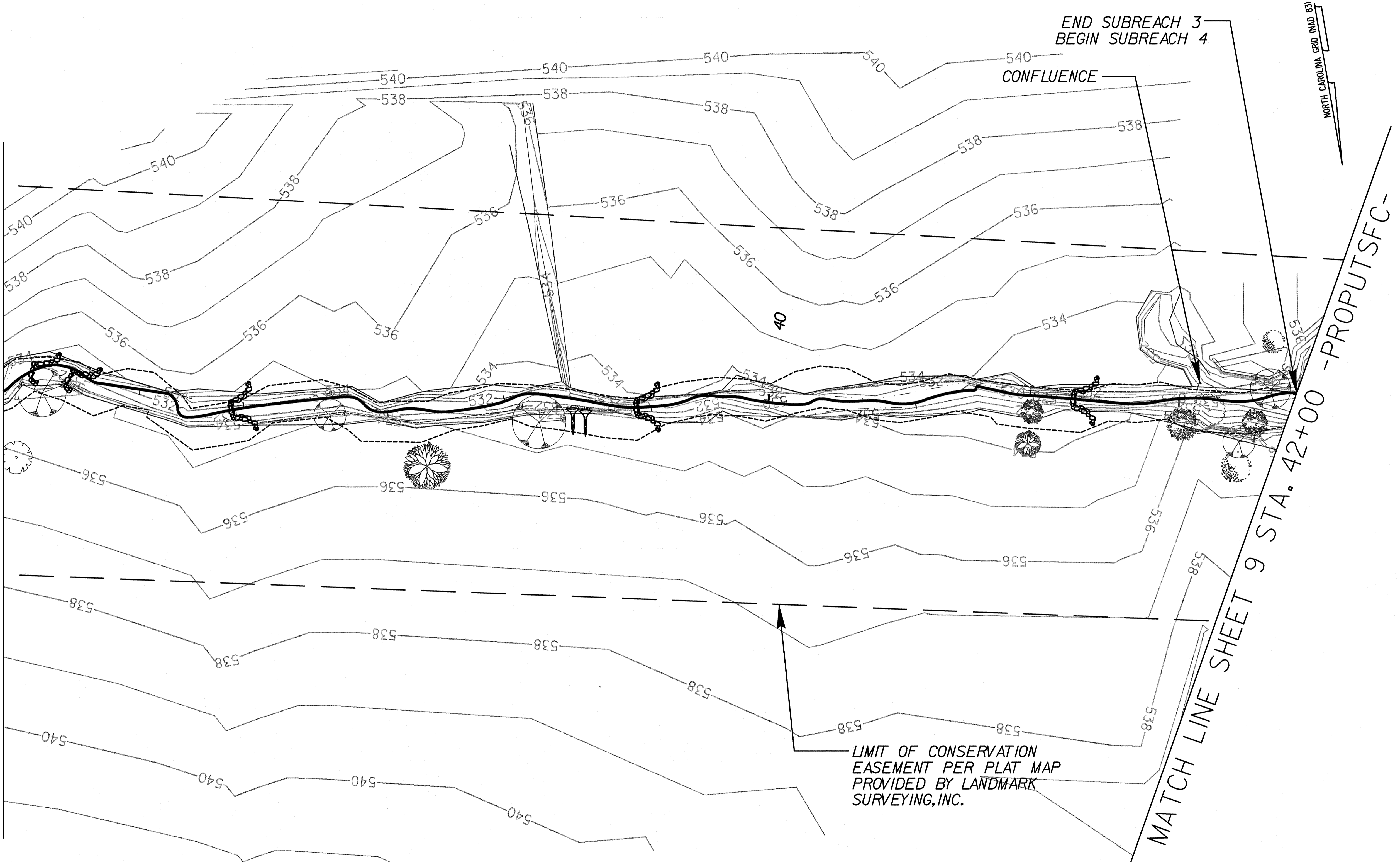
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SHEET NO. 7

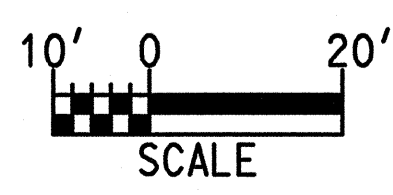
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MATCH LINE SHEET 7 STA. 37+00 -PROPUSFC-



MATCH LINE SHEET 9 STA. 42+00 -PROPUSFC-

LIMIT OF CONSERVATION EASEMENT PER PLAT MAP PROVIDED BY LANDMARK SURVEYING, INC.



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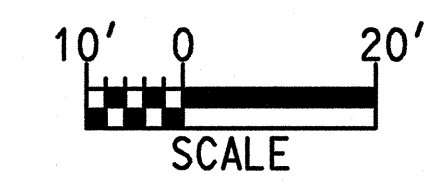
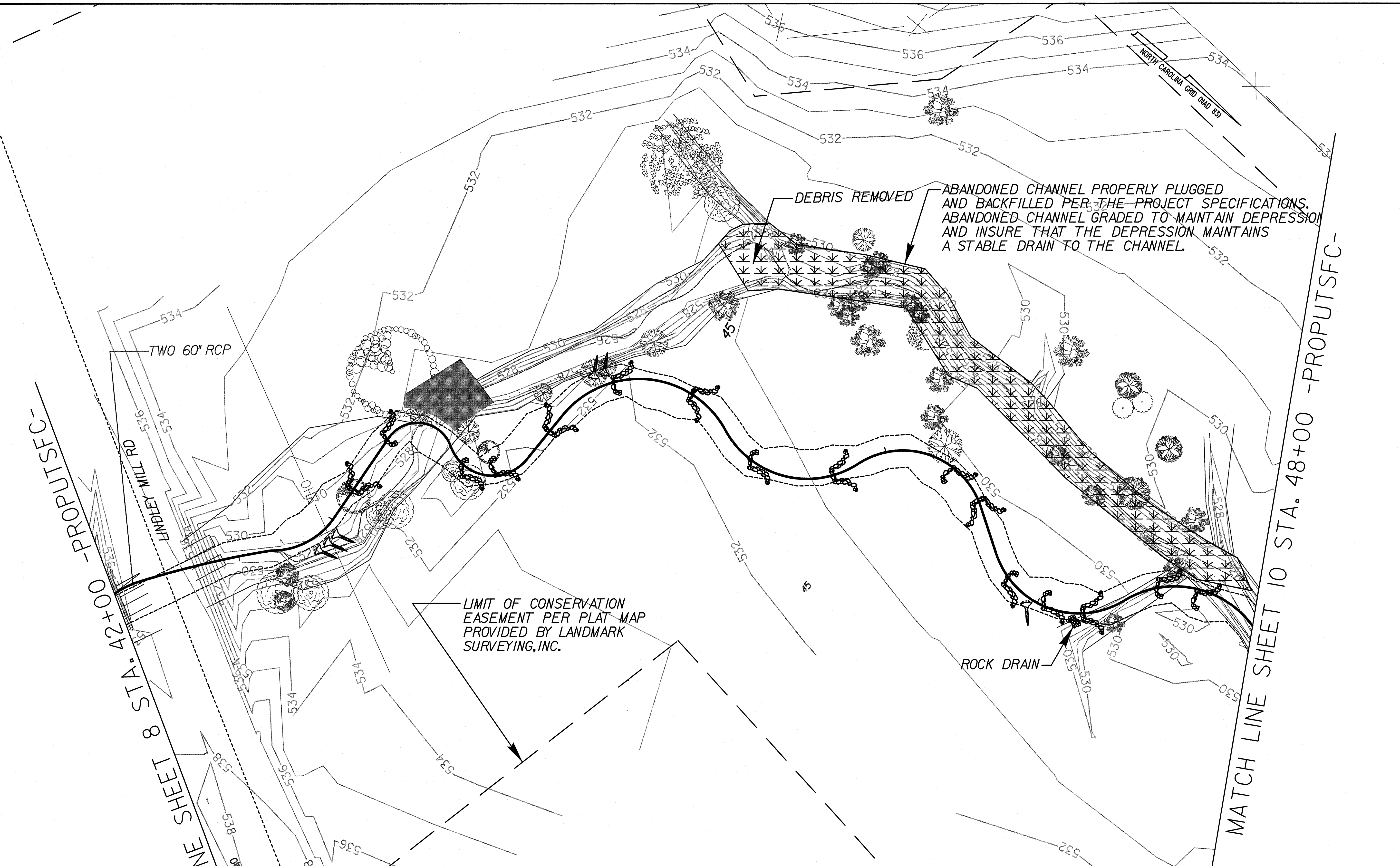
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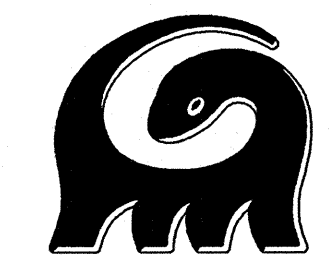
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Date: 8/24/2006
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MATCH LINE SHEET 8 STA. 42+00 - PROPUSFC -
 HINDLEY MILL RD
 MATCH LINE SHEET 10 STA. 48+00 - PROPUSFC -



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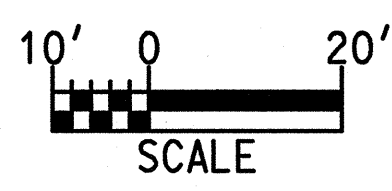
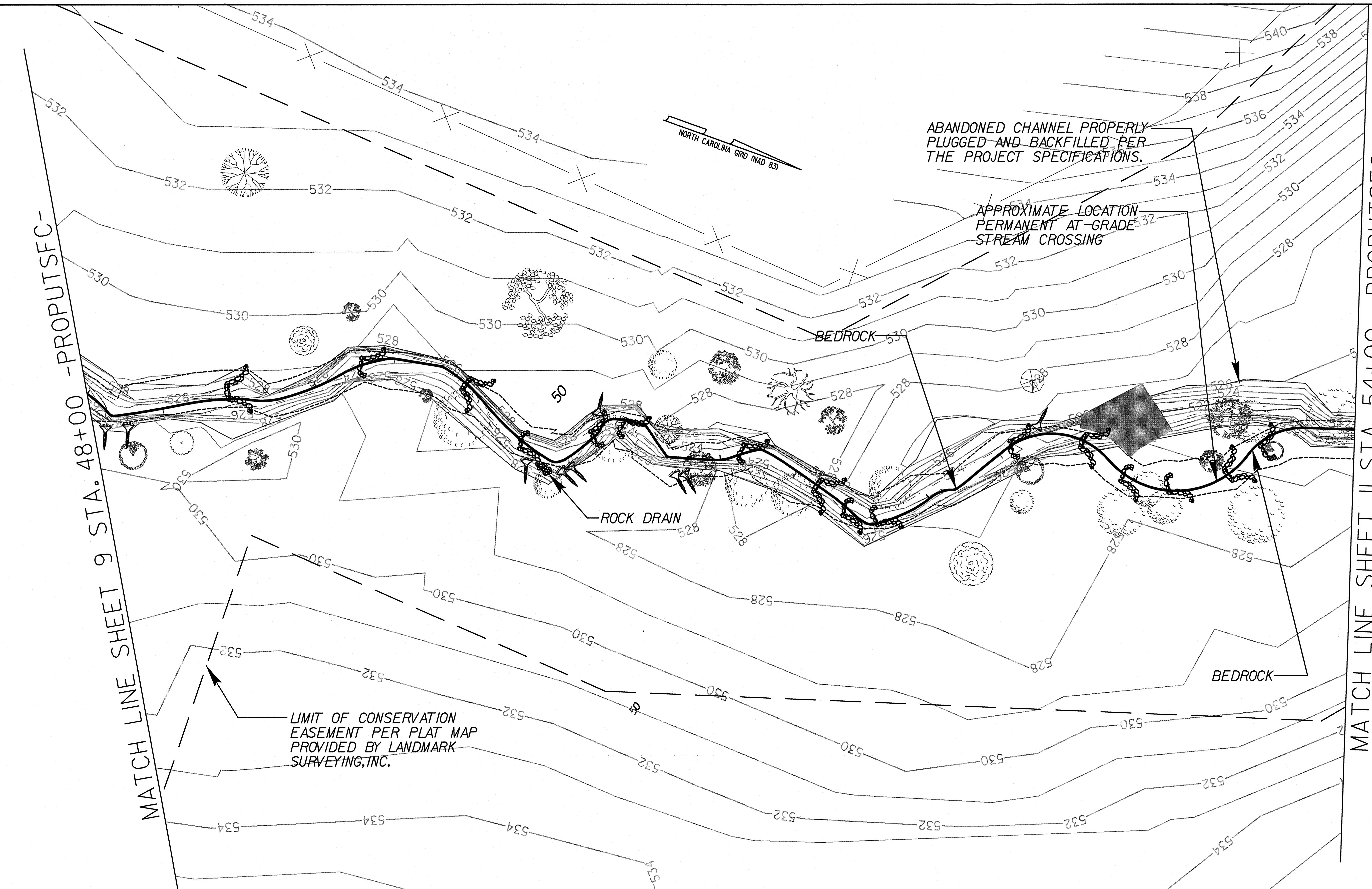
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UT TO SOUTH FORK CREEK
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SHEET NO. 9

MATCH LINE SHEET 9 STA. 48+00 -PROPUSFC-

MATCH LINE SHEET 11 STA. 54+00 -PROPUSFC-



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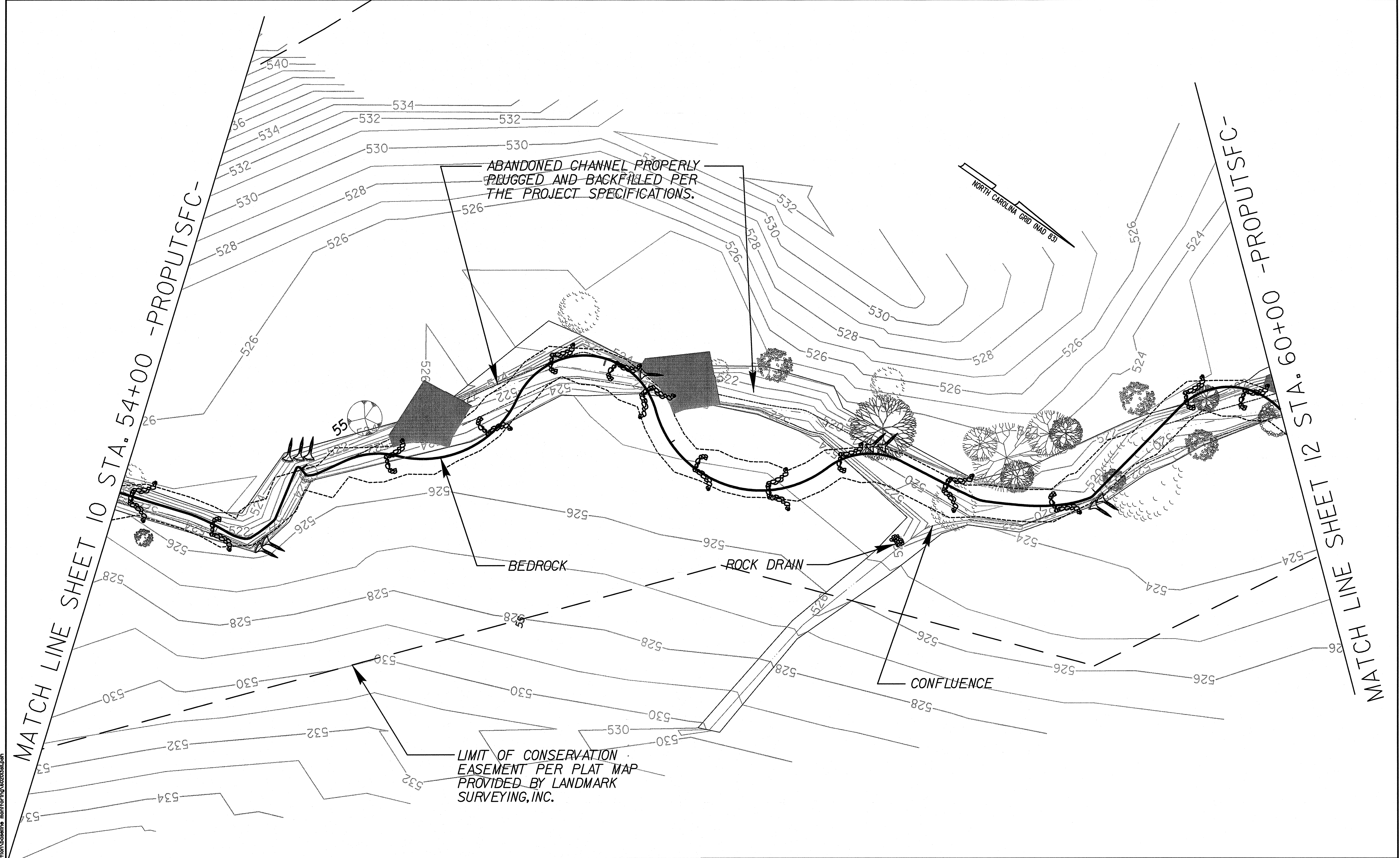
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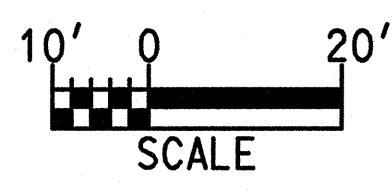
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SHEET NO. 10

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Date: 8/29/2006
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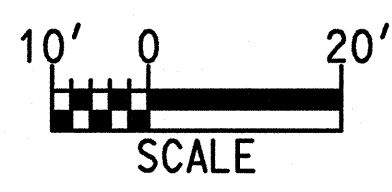
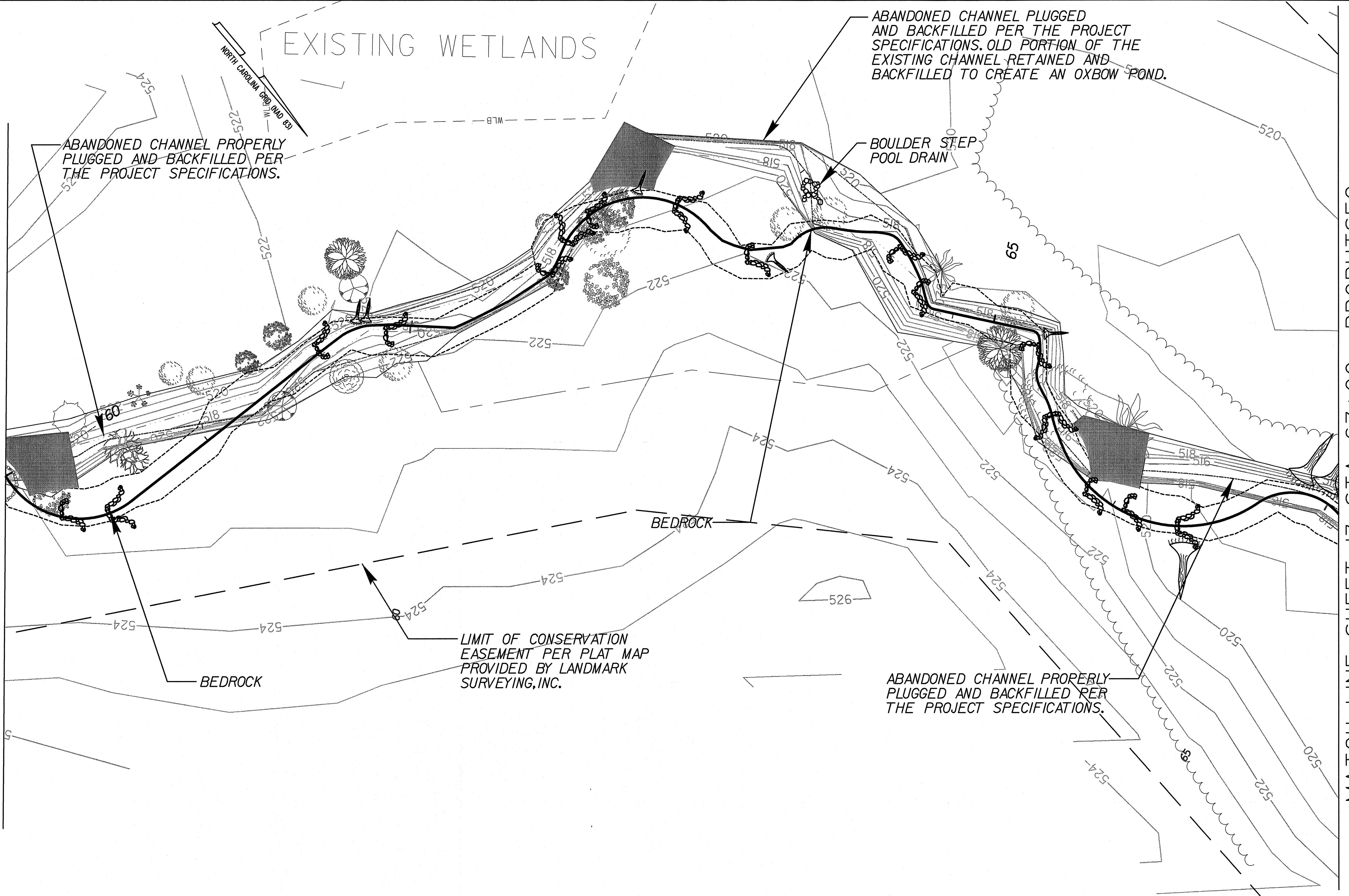
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SHEET NO. II

MATCH LINE SHEET II STA. 60+00 -PROPUSFC-

MATCH LINE SHEET I3 STA. 67+00 -PROPUSFC-



Date: 8/29/2006
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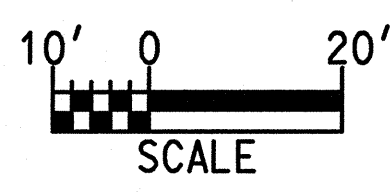
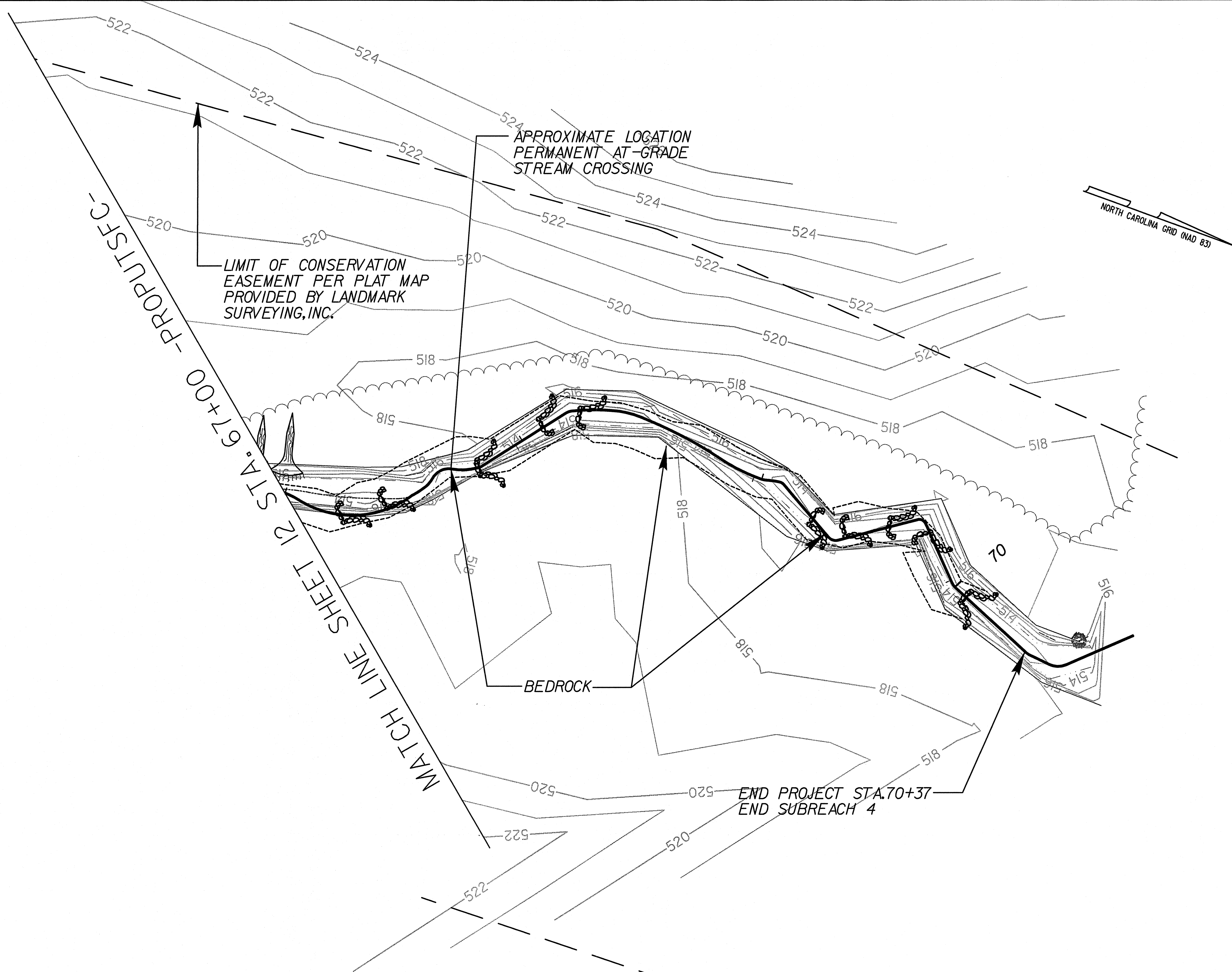
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SHEET NO. 12



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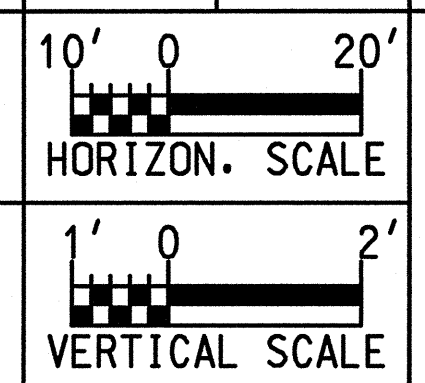
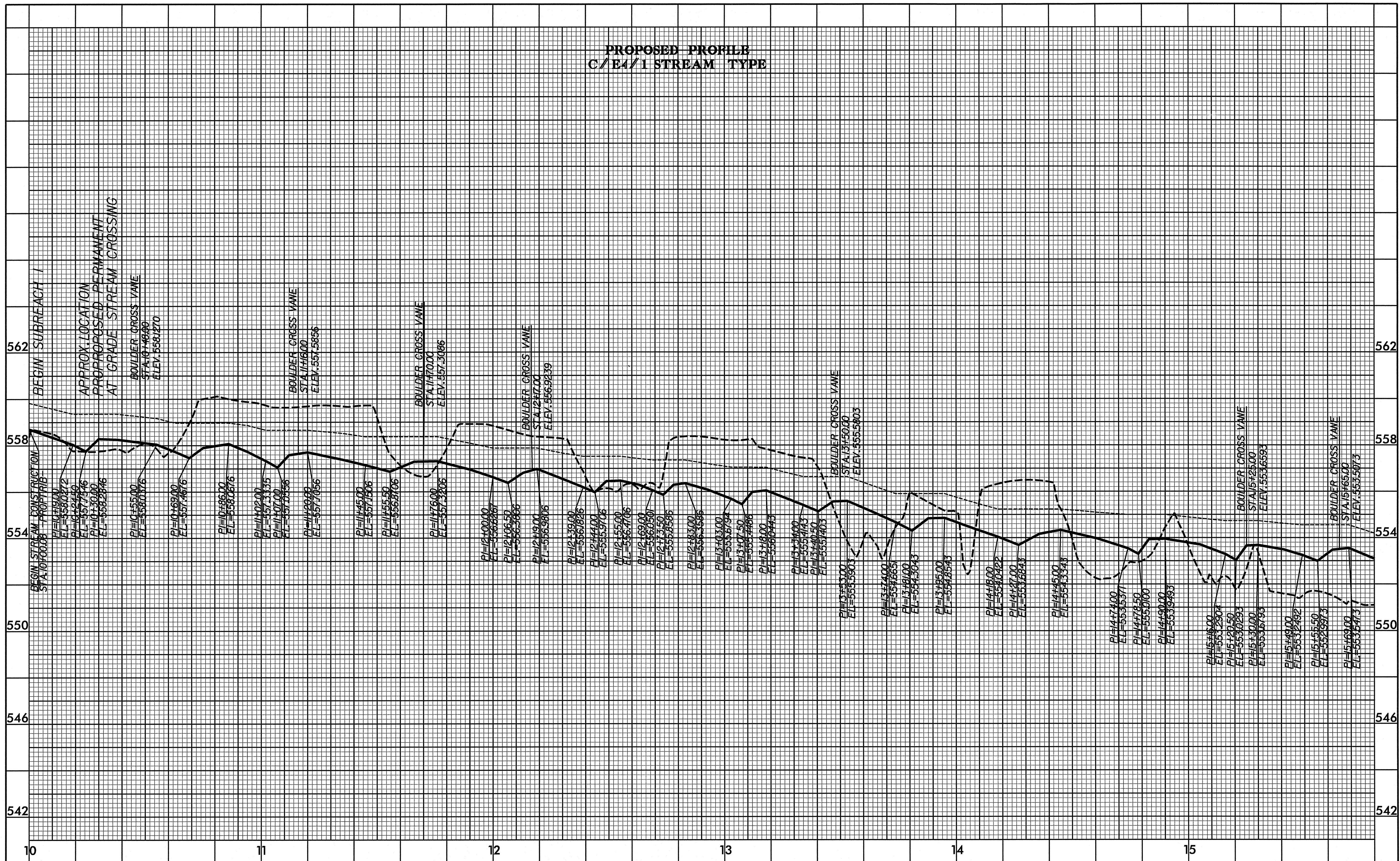
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SHEET NO. 13

PROPOSED PROFILE
C/E1/1 STREAM TYPE



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1	REB	8/30/06	MONITORING BASELINE
	BY	DATE	DESCRIPTION OF REVISION

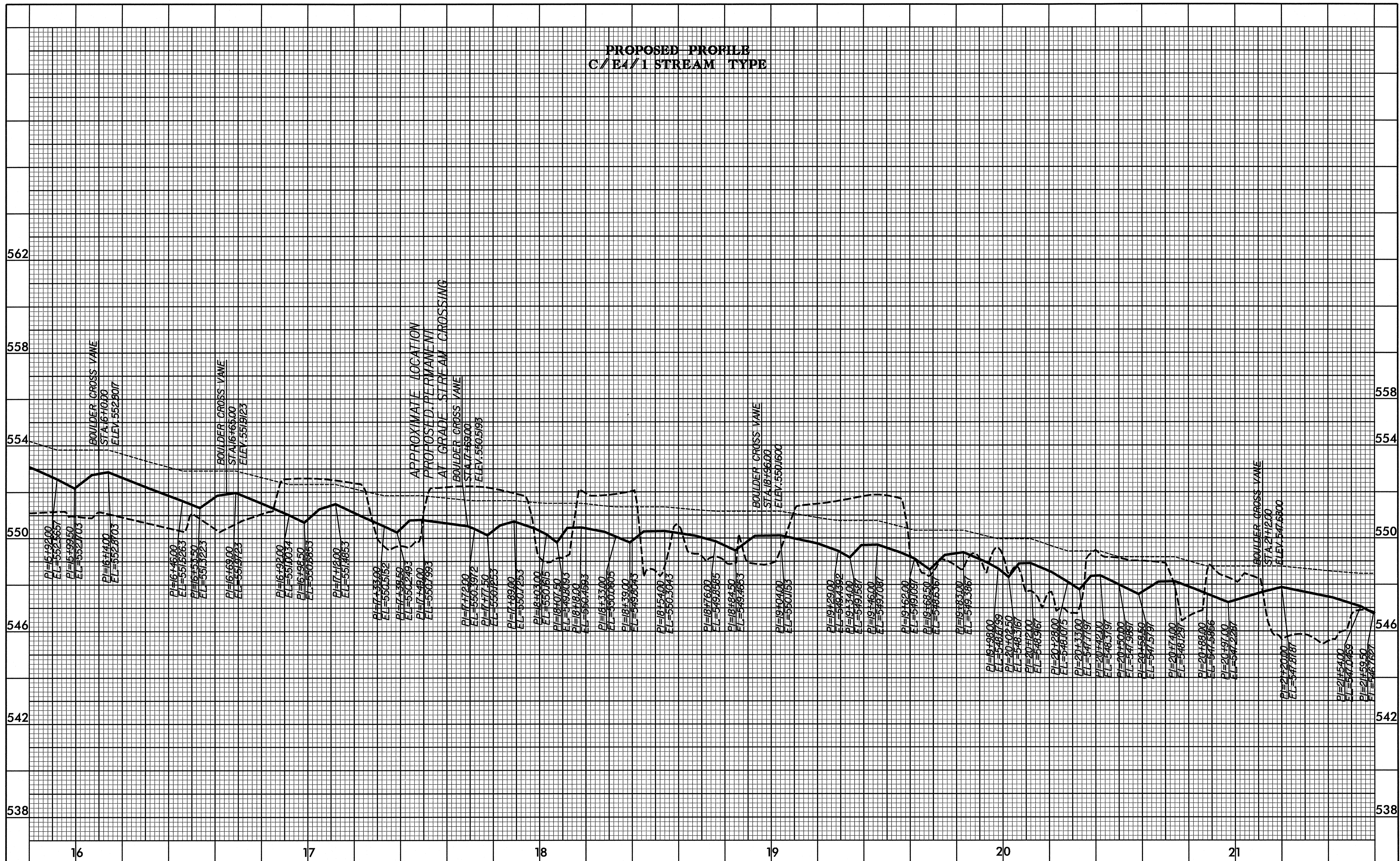
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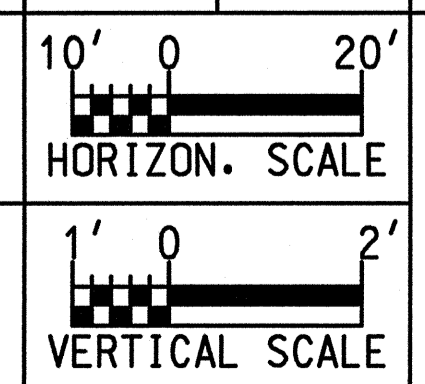
SHEET NO. 14

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PROPOSED PROFILE
C/E4/1 STREAM TYPE



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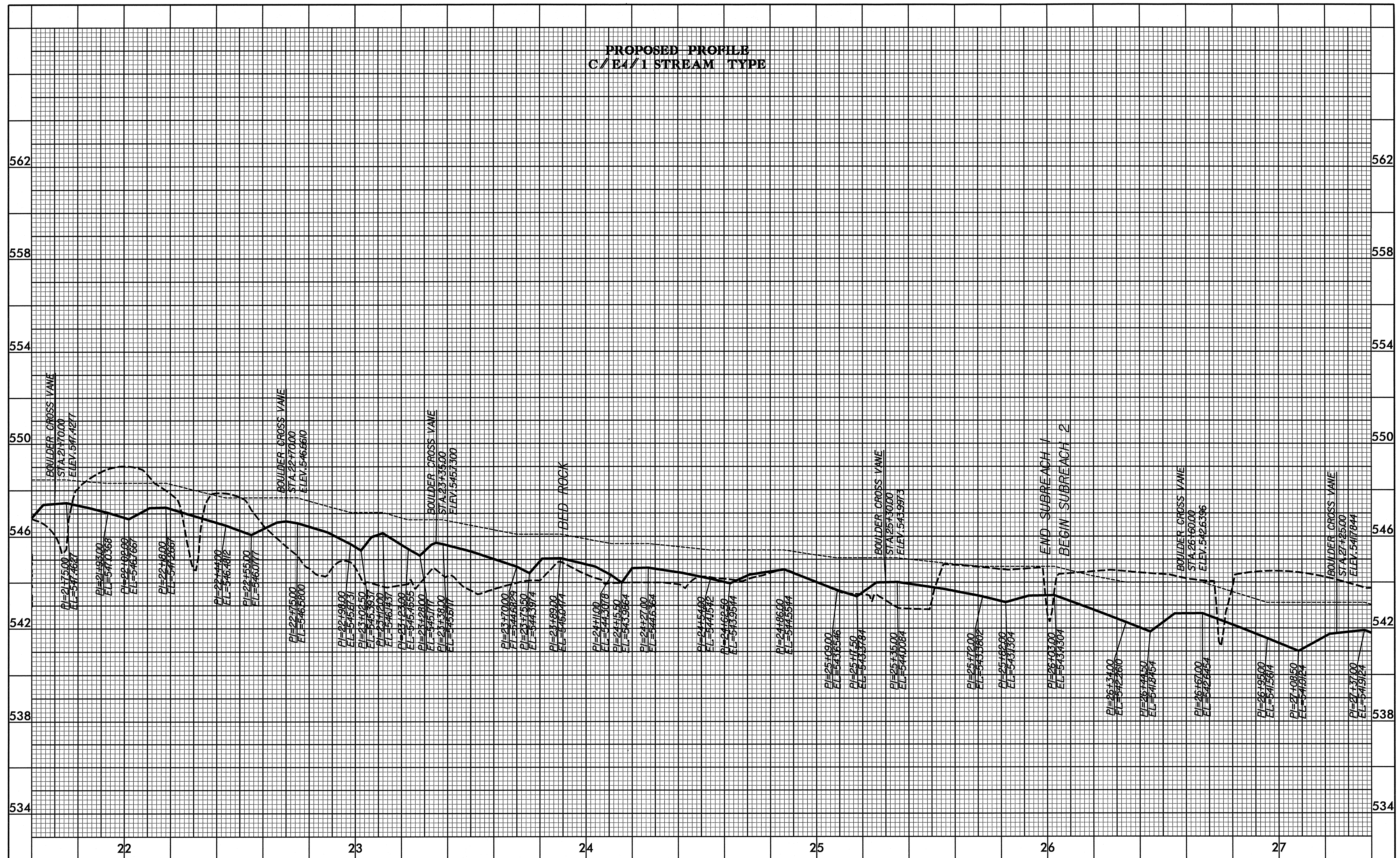
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NORTH CAROLINA WETLANDS RESTORATION PROGRAM

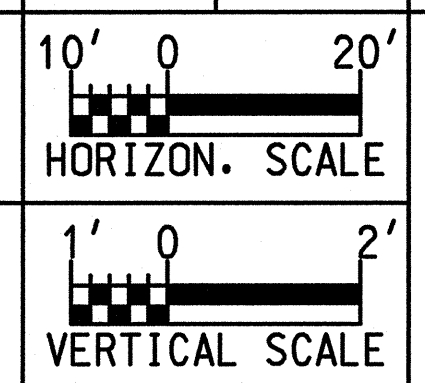
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SHEET NO. 15

PROPOSED PROFILE
C/E1/1 STREAM TYPE



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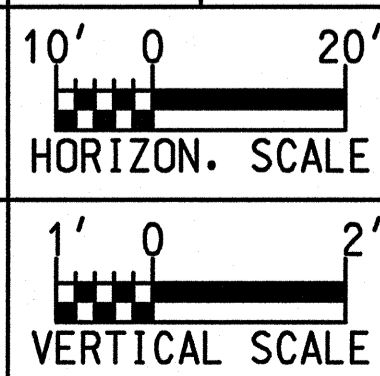
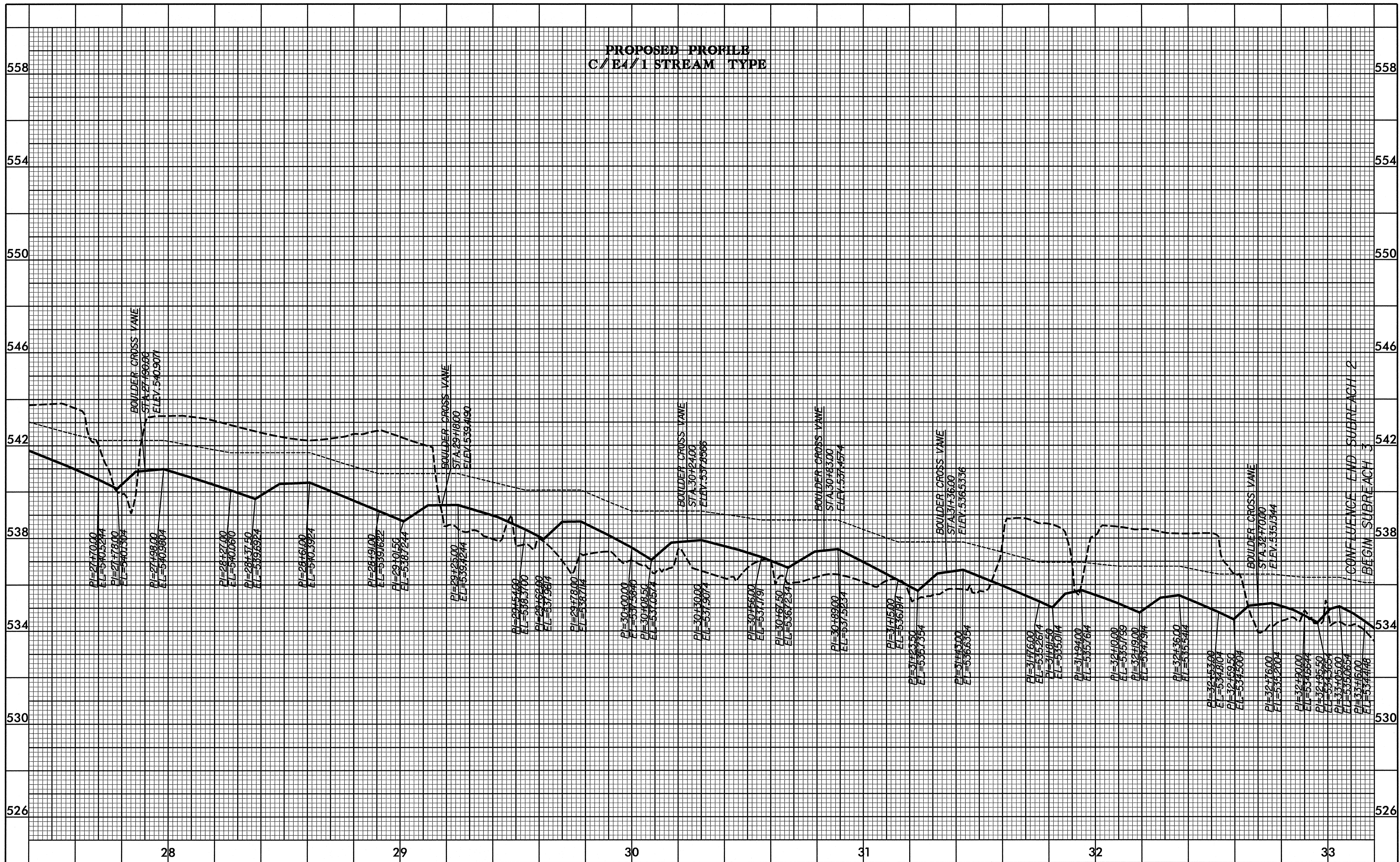
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	BY	DATE	DESCRIPTION OF REVISION

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SHEET NO. 16

PROPOSED PROFILE
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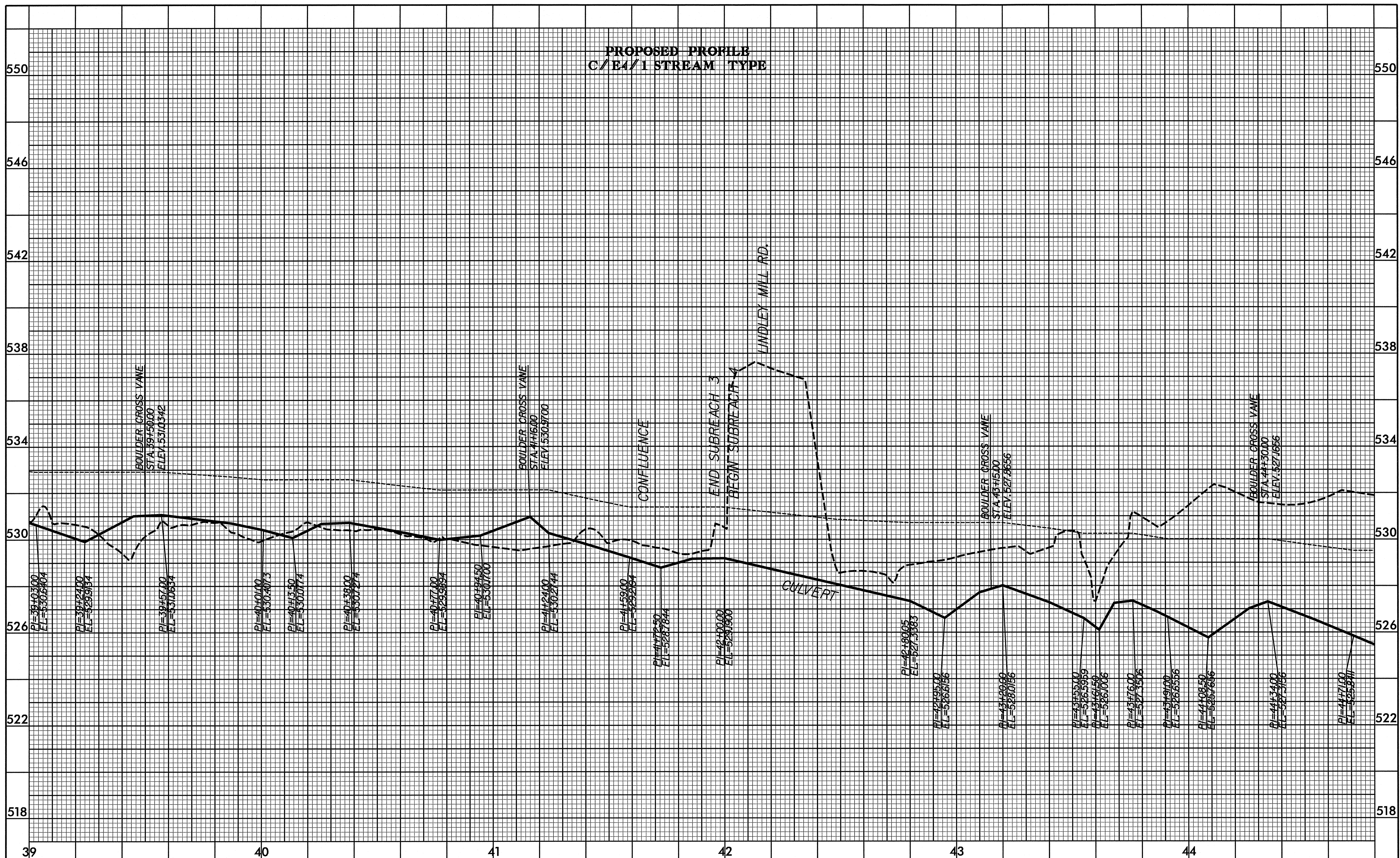
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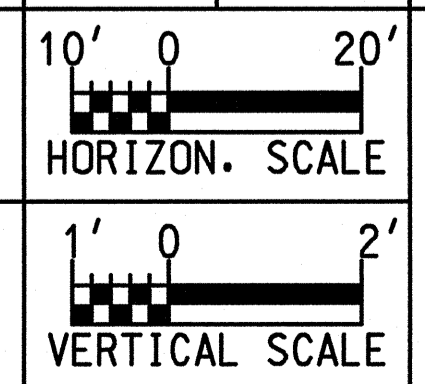
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PROPOSED PROFILE
C/E1/1 STREAM TYPE



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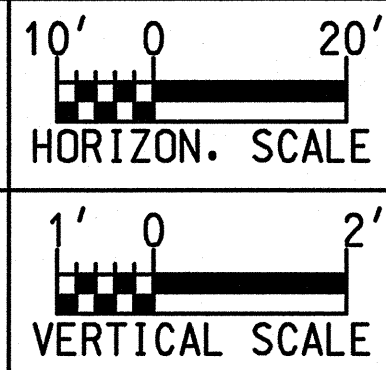
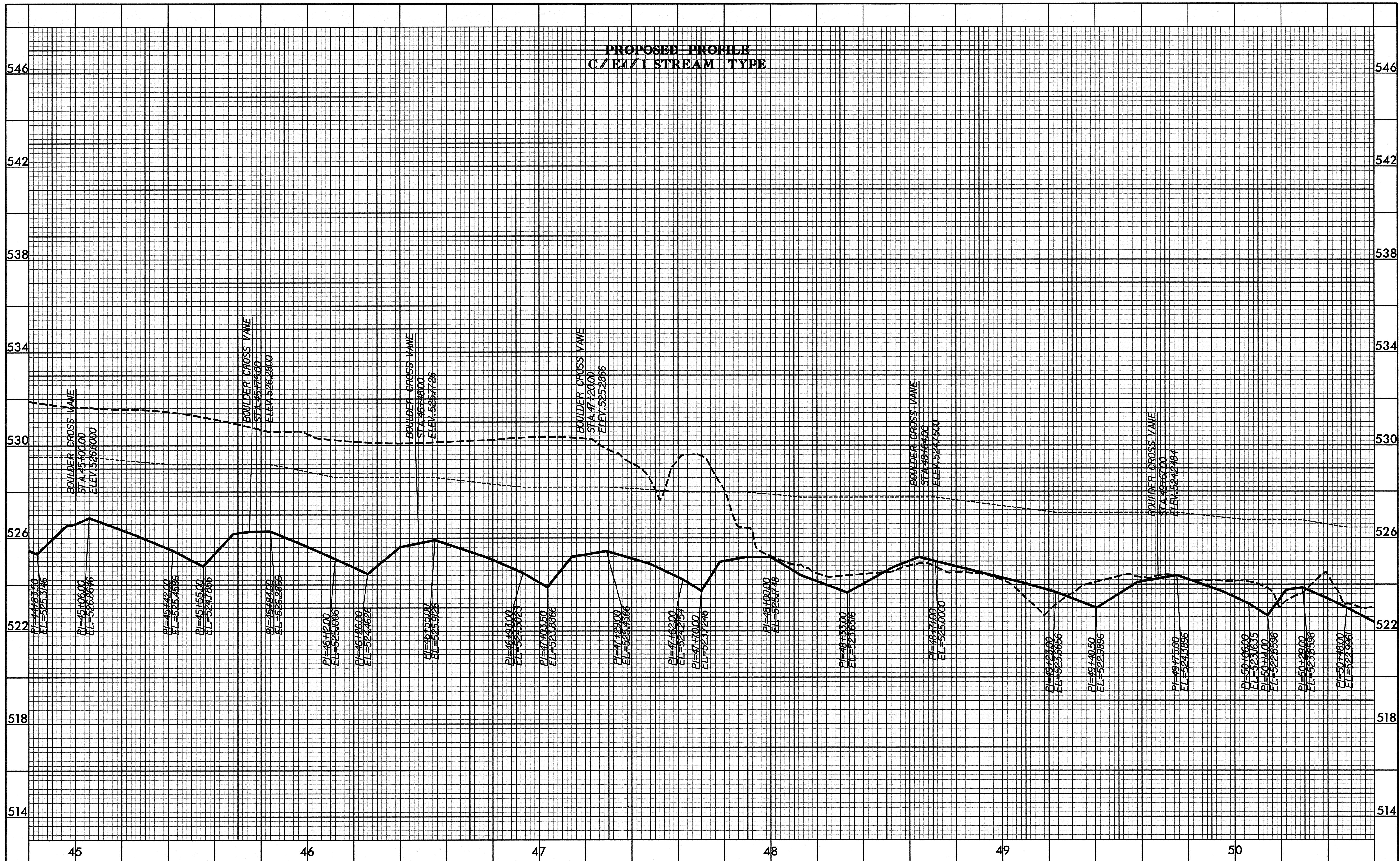
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SHEET NO. 19

PROPOSED PROFILE
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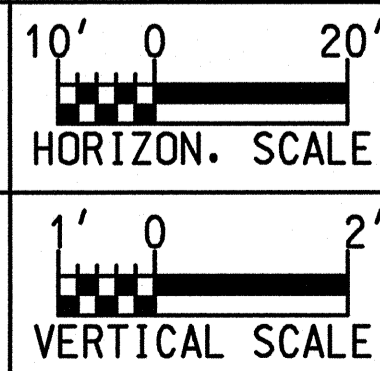
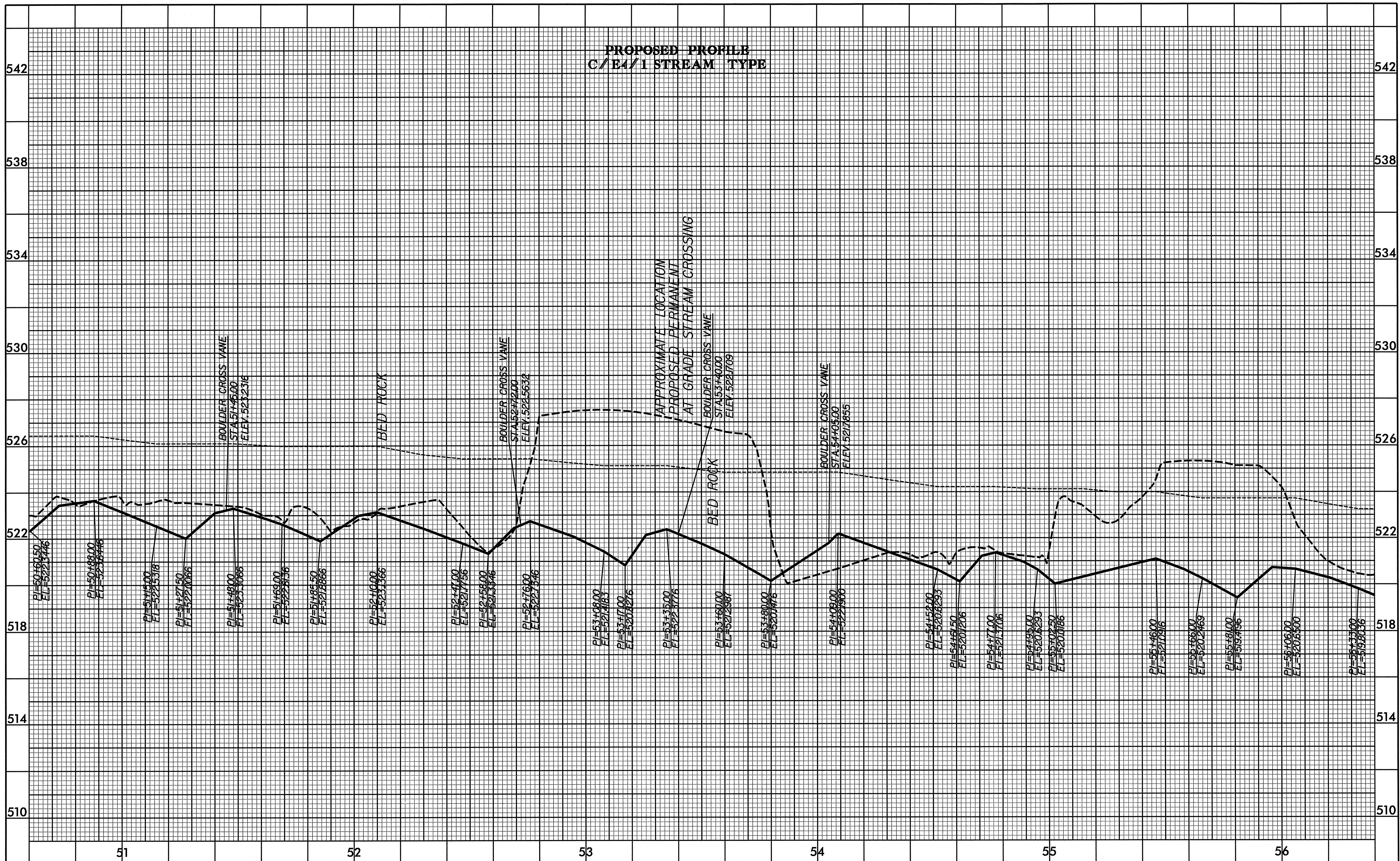
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PROPOSED PROFILE
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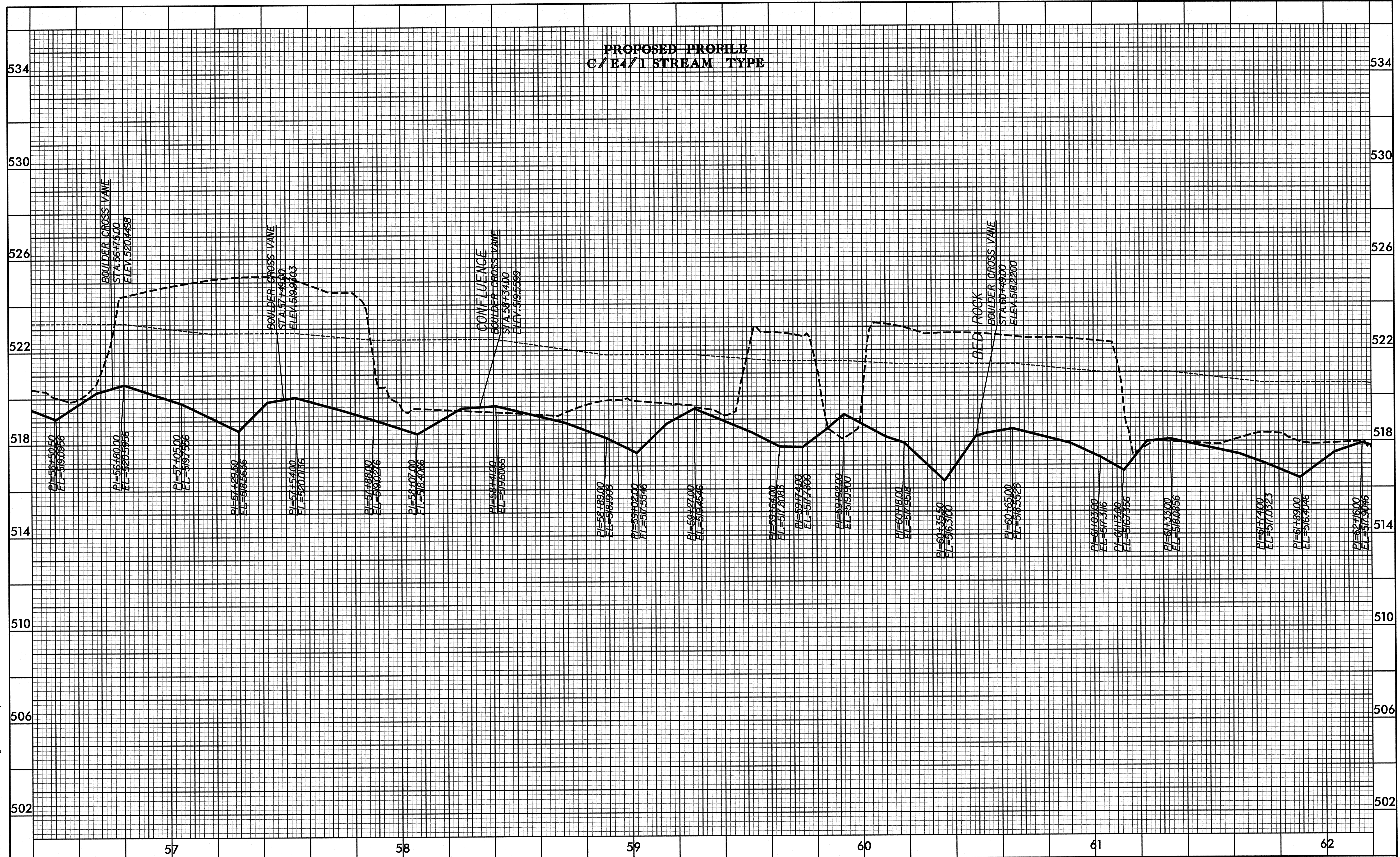
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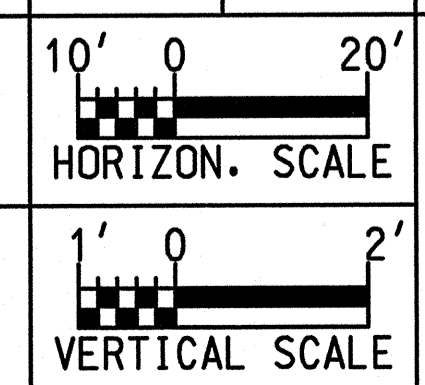
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PROPOSED PROFILE
C/E4/I STREAM TYPE



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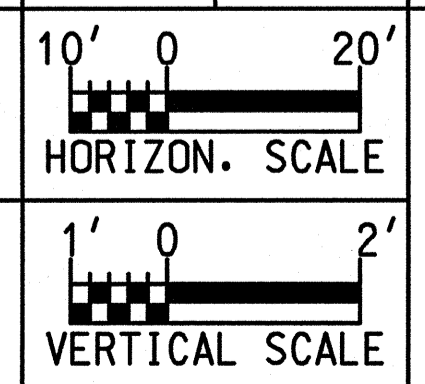
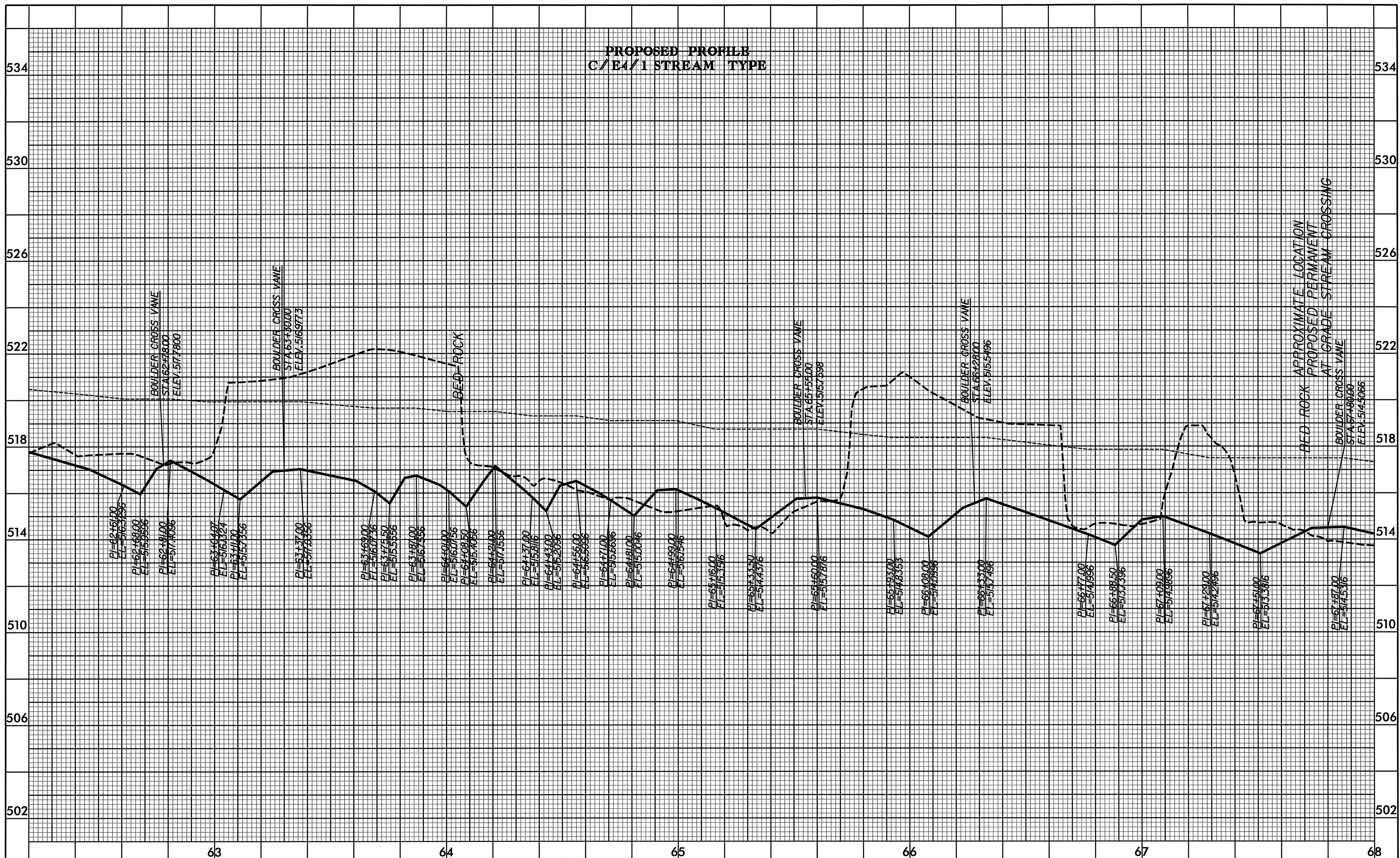
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SHEET NO. 22

PROPOSED PROFILE
C/E1/1 STREAM TYPE



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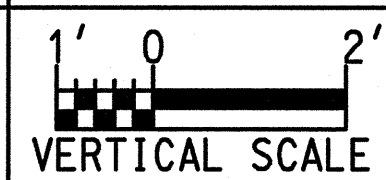
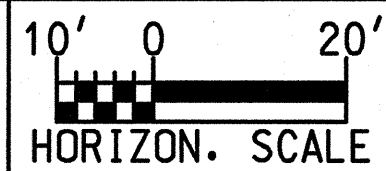
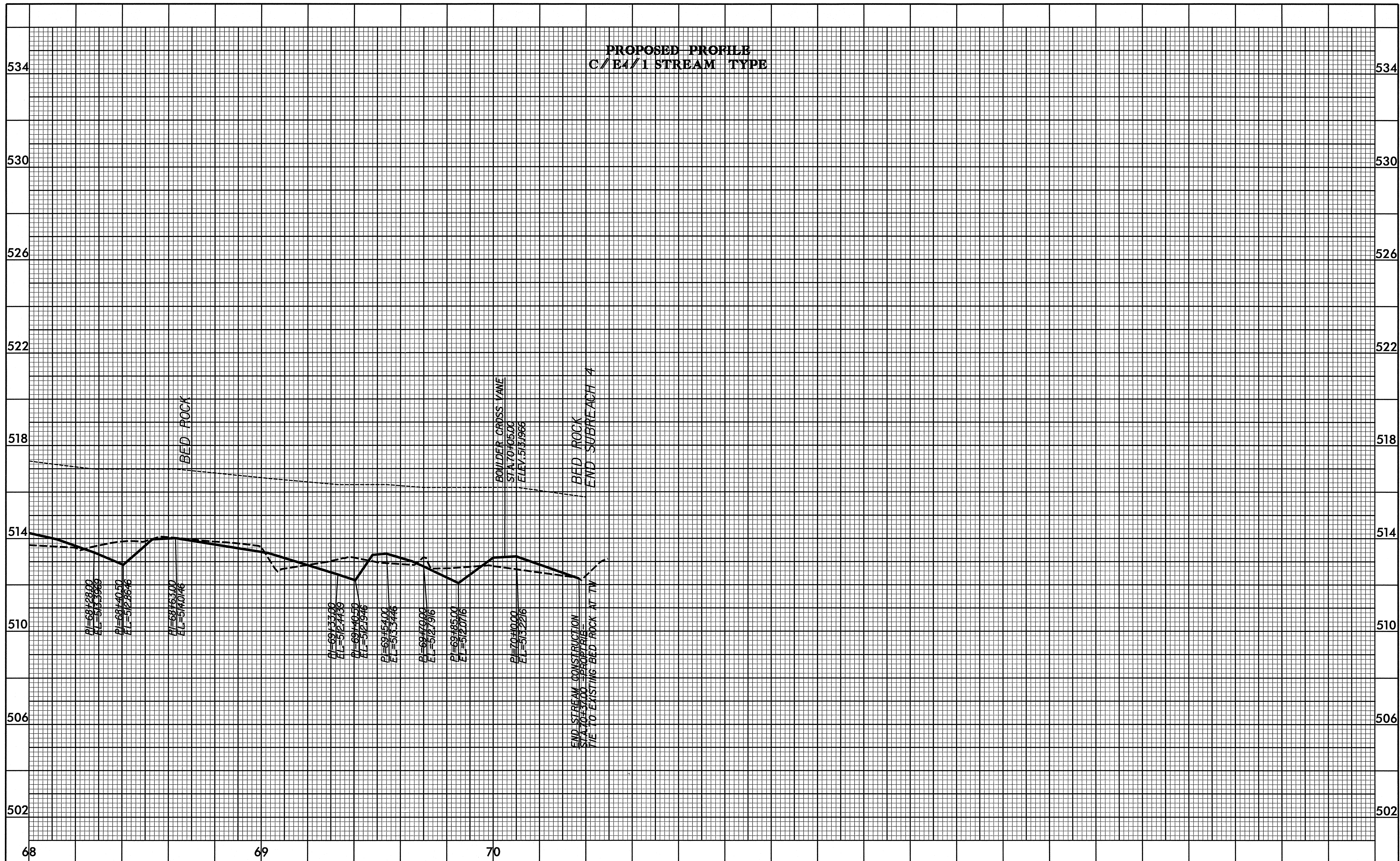
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	BY	DATE	DESCRIPTION OF REVISION

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PROPOSED PROFILE
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