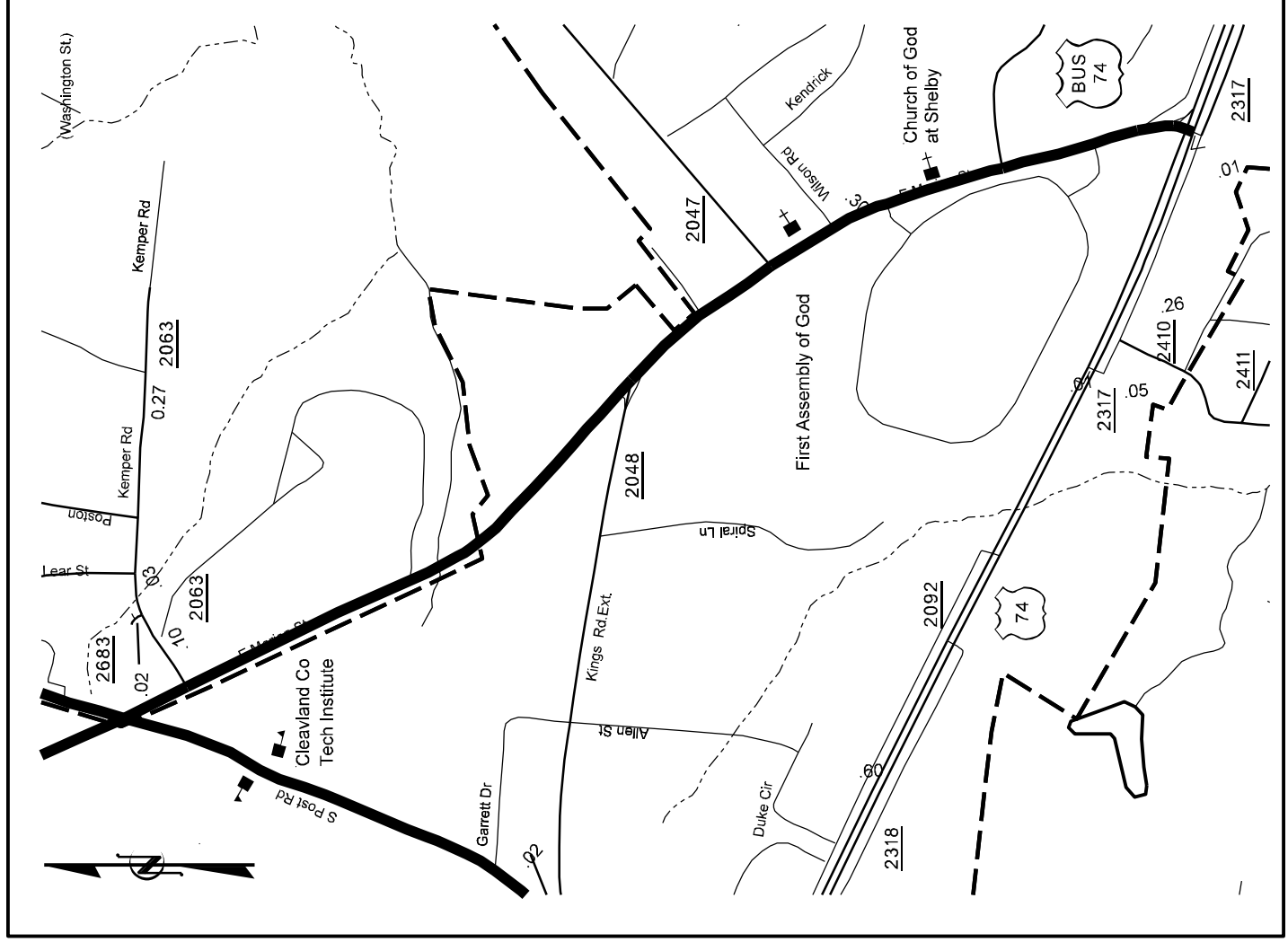


See Sheet 1-A For Index of Sheets



VICINITY MAP NOT TO SCALE

TIP PROJECT: 43430

CONTRACT:

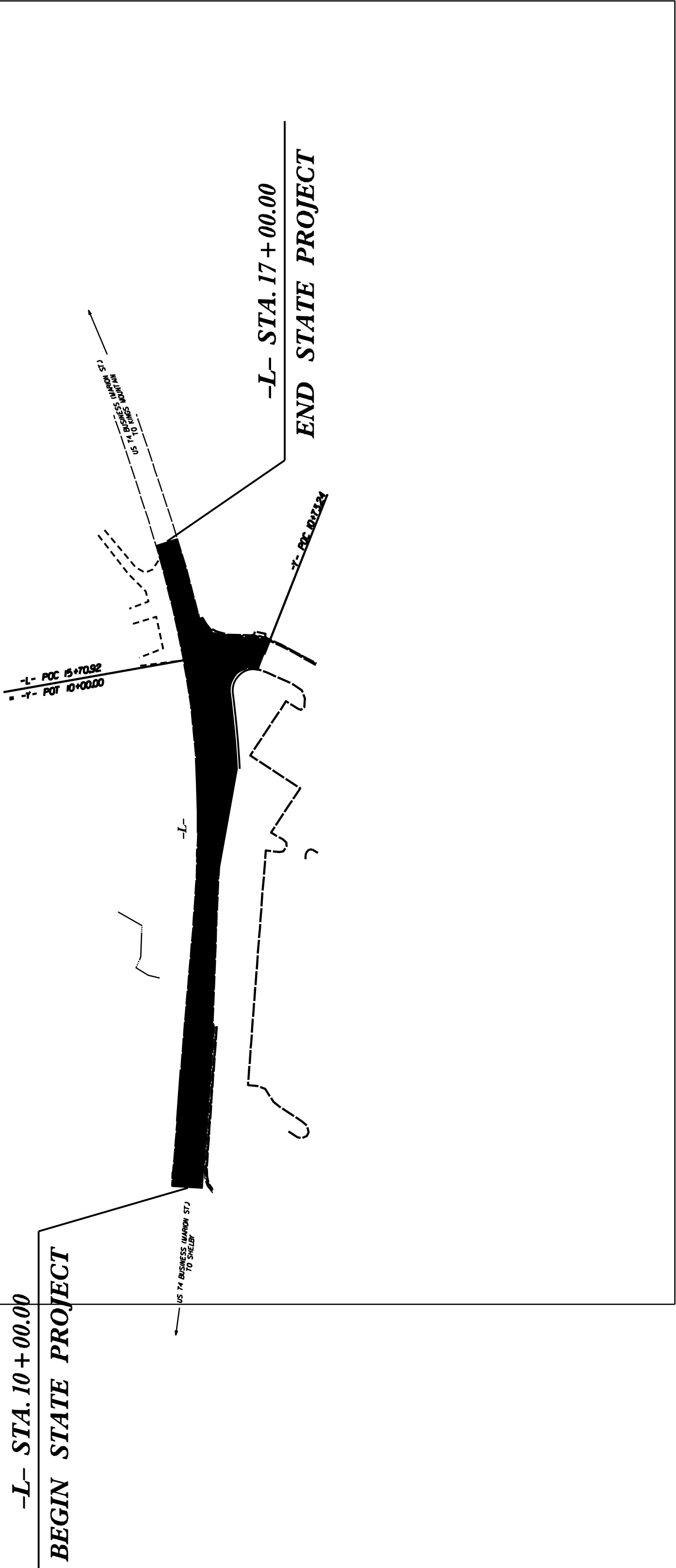
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CLEVELAND COUNTY

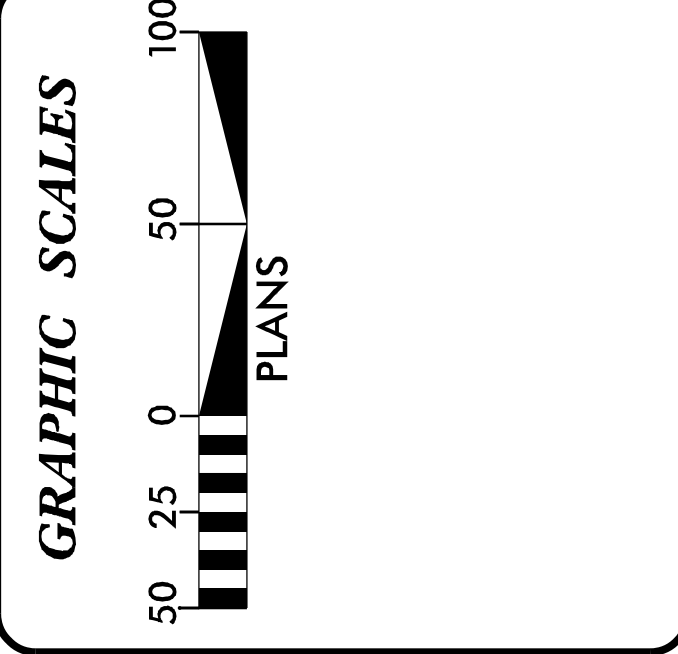
LOCATION: US 74 BUSINESS (EAST MARION ST.)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, PAVEMENT MARKINGS
AND PAVEMENT MARKERS

4



STATE	N.C.	STATE PROJECT REFERENCE NO.	43430	SUBJECT LINE	1	TOTAL SHEETS	4
STATE PROJ. NO.	43430	P.A. PROJ. NO.		DESCRIPTION	PE		
	43430				CONST.		



DESIGN DATA

ADT 2010 =	9700
ADT	
DHV =	%
D =	%
T =	% *
V =	45 MPH
* TTST =	DUAL
FUNC CLASS =	
STATEWIDE TIER	

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT =	0.133 MILES
TOTAL LENGTH OF ROADWAY PROJECT =	0.133 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1710 East Marion St., Shelby NC, 28150

2012 STANDARD SPECIFICATIONS	RIGHT OF WAY DATE:	M.E. Stafford, PE PROJECT ENGINEER
	LETTING DATE:	R.E. Humphries, PLS PROJECT DESIGN ENGINEER
		May 22, 2012

HYDRAULICS ENGINEER	SIGNATURE:	P.E.
	ROADWAY DESIGN ENGINEER	
	SIGNATURE:	P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

M.L. Holder
STATE HIGHWAY DESIGN ENGINEER P.E.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
225.01	Method for Grading - Method 11
225.02	Method for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Super-elevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Super-elevated Curve - Method 1
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basins - 12" thru 34" Pipe
840.02	Concrete Catch Basins - 12" thru 34" Pipe
840.03	Frame Catch Basins - 12" thru 34" Pipe
840.04	Concrete Drop Inlet - 12" thru 30" Pipe
840.14	Brick Drop Inlet - 12" thru 30" Pipe
840.15	Drop Inlet Frame and Grates - for use with Sid. Dwg 840.14 and 840.15
840.22	Frames and Wide Slot Sag Grates
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.34	Manhole Frame and Cover
840.66	Drainage Structure Steps
848.02	Driveway Turnout - Radius Type
862.01	Guardrail Placement
862.02	Guardrail Installation
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

GENERAL NOTES:
EFFECTIVE: 01-17-12
REVISED: 11/01/11

GRADE LINE:
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACE AND ARE TO BE CONSIDERED AS SUCH UNLESS OTHERWISE NOTED. THE GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.02 USING THE RATE OF SUPERELEVATION RUMPS SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, OR DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3" RADIUS OR RADIUS AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE CITY OF SHELBY, CLEVELAND COUNTY, AT&T, AND TIME WARNER CABLE

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2-A	DETAILS
3	SUMMARY OF QUANTITIES
3-A THRU 3-B	SUMMARY OF DRAINAGE QUANTITIES SUMMARY OF GUARDRAIL - EARTHWORK SUMMARY OF ASPHALT PAVEMENT REMOVAL SUMMARY
3-C	PARCEL INDEX
4	PLAN SHEET
TMP-1 THRU TMP-3	TRAFFIC CONTROL PLANS
PM-1 THRU PM-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS
X-1 THRU X-5	CROSS-SECTIONS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. 43430

SHEET NO. 1-B

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line _____
- County Line _____
- Township Line _____
- City Line _____
- Reservation Line _____
- Property Line _____
- Existing Iron Pin _____
- Property Corner _____
- Property Monument _____
- Parcel/Sequence Number _____
- Existing Fence Line _____
- Proposed Woven Wire Fence _____
- Proposed Chain Link Fence _____
- Proposed Barbed Wire Fence _____
- Existing Wetland Boundary _____
- Proposed Wetland Boundary _____
- Existing Endangered Animal Boundary _____
- Existing Endangered Plant Boundary _____
- Known Soil Contamination: Area or Site _____
- Potential Soil Contamination: Area or Site _____

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or UG Tank Cap _____
- Sign _____
- Well _____
- Small Mine _____
- Foundation _____
- Area Outline _____
- Cemetery _____
- Building _____
- School _____
- Church _____
- Dam _____

HYDROLOGY:

- Stream or Body of Water _____
- Hydro, Pool or Reservoir _____
- Jurisdictional Stream _____
- Buffer Zone 1 _____
- Buffer Zone 2 _____
- Flow Arrow _____
- Disappearing Stream _____
- Spring _____
- Wetland _____
- Proposed Lateral, Tail, Head Ditch _____
- False Sump _____

RAILROADS:

- Standard Gauge _____
- RR Signal Milepost _____
- Switch _____
- RR Abandoned _____
- RR Dismantled _____

RIGHT OF WAY:

- Baseline Control Point _____
- Existing Right of Way Marker _____
- Existing Right of Way Line _____
- Proposed Right of Way Line _____
- Proposed Right of Way Line with Iron Pin and Cap Marker _____
- Proposed Right of Way Line with Concrete or Granite Marker _____
- Existing Control of Access _____
- Proposed Control of Access _____
- Existing Easement Line _____
- Proposed Temporary Construction Easement _____
- Proposed Temporary Drainage Easement _____
- Proposed Permanent Drainage Easement _____
- Proposed Permanent Drainage / Utility Easement _____
- Proposed Permanent Utility Easement _____
- Proposed Temporary Utility Easement _____
- Proposed Aerial Utility Easement _____
- Proposed Permanent Easement with Iron Pin and Cap Marker _____

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement _____
- Existing Curb _____
- Proposed Slope Stakes Cut _____
- Proposed Slope Stakes Fill _____
- Proposed Curb Ramp _____
- Existing Metal Guardrail _____
- Proposed Guardrail _____
- Existing Cable Guiderail _____
- Proposed Cable Guiderail _____
- Equality Symbol _____
- Pavement Removal _____

VEGETATION:

- Single Tree _____
- Single Shrub _____
- Hedge _____
- Woods Line _____

WATER:

- Water Manhole _____
- Water Meter _____
- Water Valve _____
- Water Hydrant _____
- Recorded UG Water Line _____
- Designated UG Water Line (S.U.E.*) _____
- Above Ground Water Line _____

TV:

- TV Satellite Dish _____
- TV Pedestal _____
- TV Tower _____
- UG TV Cable Hand Hole _____
- Recorded UG TV Cable _____
- Designated UG TV Cable (S.U.E.*) _____
- Recorded UG Fiber Optic Cable _____
- Designated UG Fiber Optic Cable (S.U.E.*) _____

GAS:

- Gas Valve _____
- Gas Meter _____
- Recorded UG Gas Line _____
- Designated UG Gas Line (S.U.E.*) _____
- Above Ground Gas Line _____

SANITARY SEWER:

- Sanitary Sewer Manhole _____
- Sanitary Sewer Cleanout _____
- UG Sanitary Sewer Line _____
- Above Ground Sanitary Sewer _____
- Recorded SS Forced Main Line _____
- Designated SS Forced Main Line (S.U.E.*) _____

MISCELLANEOUS:

- Utility Pole _____
- Utility Pole with Base _____
- Utility Located Object _____
- Utility Traffic Signal Box _____
- Utility Unknown UG Line _____
- UG Tank; Water, Gas, Oil _____
- Underground Storage Tank, Approx. Loc. _____
- A/G Tank; Water, Gas, Oil _____
- Geoenvironmental Boring _____
- UG Test Hole (S.U.E.*) _____
- Abandoned According to Utility Records _____
- End of Information _____

TELEPHONE:

- Existing Telephone Pole _____
- Proposed Telephone Pole _____
- Telephone Manhole _____
- Telephone Booth _____
- Telephone Pedestal _____
- Telephone Cell Tower _____
- UG Telephone Cable Hand Hole _____
- Recorded UG Telephone Cable _____
- Designated UG Telephone Cable (S.U.E.*) _____
- Recorded UG Telephone Conduit _____
- Designated UG Telephone Conduit (S.U.E.*) _____
- Recorded UG Fiber Optics Cable _____
- Designated UG Fiber Optics Cable (S.U.E.*) _____

EXISTING STRUCTURES:

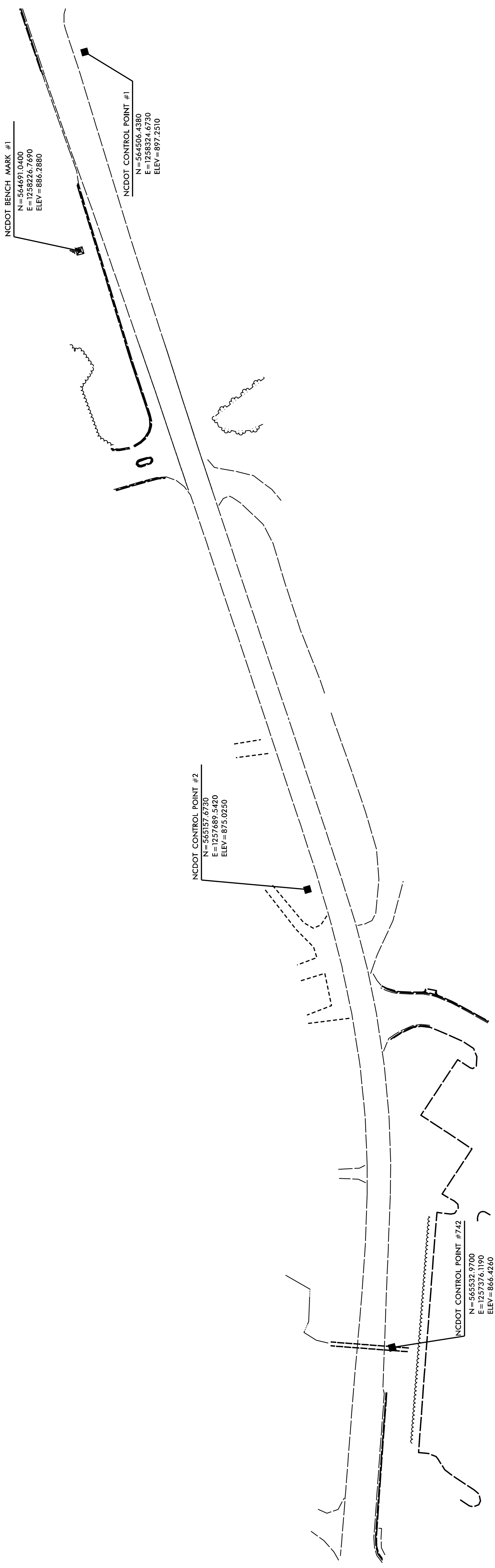
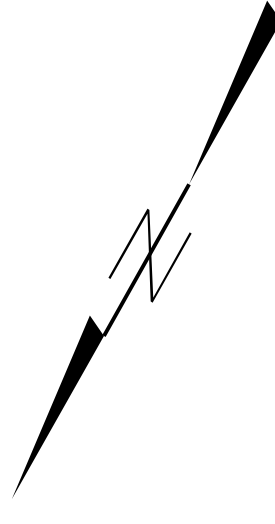
- MAJOR:
 - Bridge, Tunnel or Box Culvert _____
 - Bridge Wing Wall, Head Wall and End Wall _____
- MINOR:
 - Head and End Wall _____
 - Pipe Culvert _____
 - Footbridge _____
 - Drainage Box: Catch Basin, DI or JB _____
 - Paved Ditch Gutter _____
 - Storm Sewer Manhole _____
 - Storm Sewer _____

UTILITIES:

- POWER:
 - Existing Power Pole _____
 - Proposed Power Pole _____
 - Existing Joint Use Pole _____
 - Proposed Joint Use Pole _____
 - Power Manhole _____
 - Power Line Tower _____
 - Power Transformer _____
 - UG Power Cable Hand Hole _____
 - H-Frame Pole _____
 - Recorded UG Power Line _____
 - Designated UG Power Line (S.U.E.*) _____

SURVEY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO. I-C
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CONTROL DATA

POINT	NORTH	EAST	ELEVATION	STATION	OFFSET
1	564506.4380	1258324.6730	897.25	OUTSIDE PROJECT LIMITS	RT
2	565157.6730	1257689.5420	875.03	-L REV- 17+16	151.50' RT
742	565532.9700	1257376.1190	866.43	-L REV- 12+23	22.69' RT

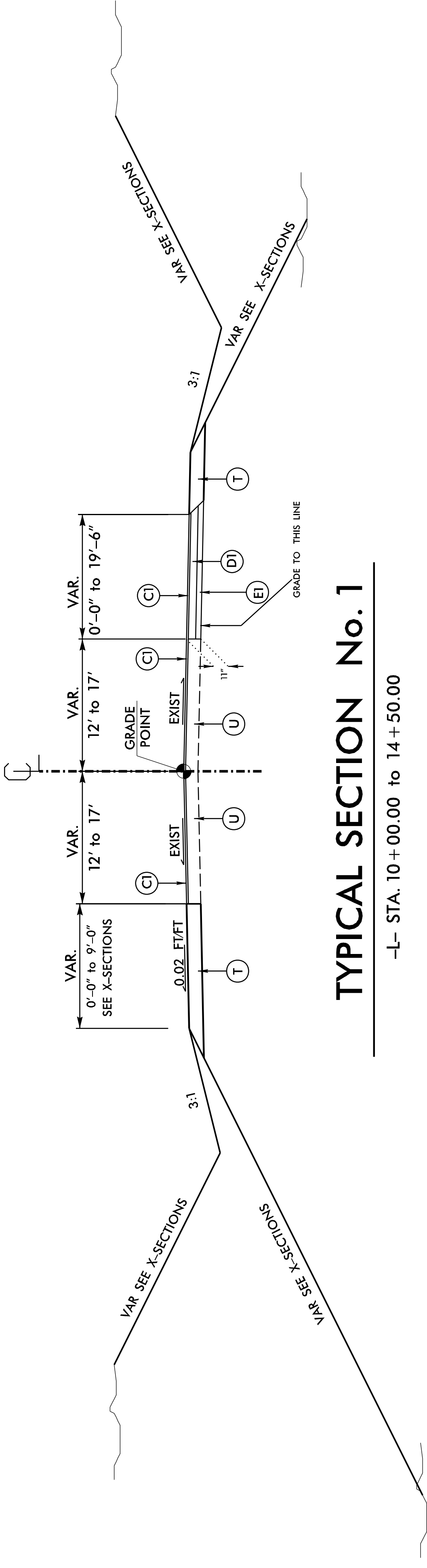
 BENCHMARK DATA

 BM 1 ELEVATION = 886.2880
 N: 564691 E: 1258227

 ???BRIDGE SPIKE IN TELEPHONE POLE???
 NEAR ENTRANCE TO APARTMENT COMPLEX

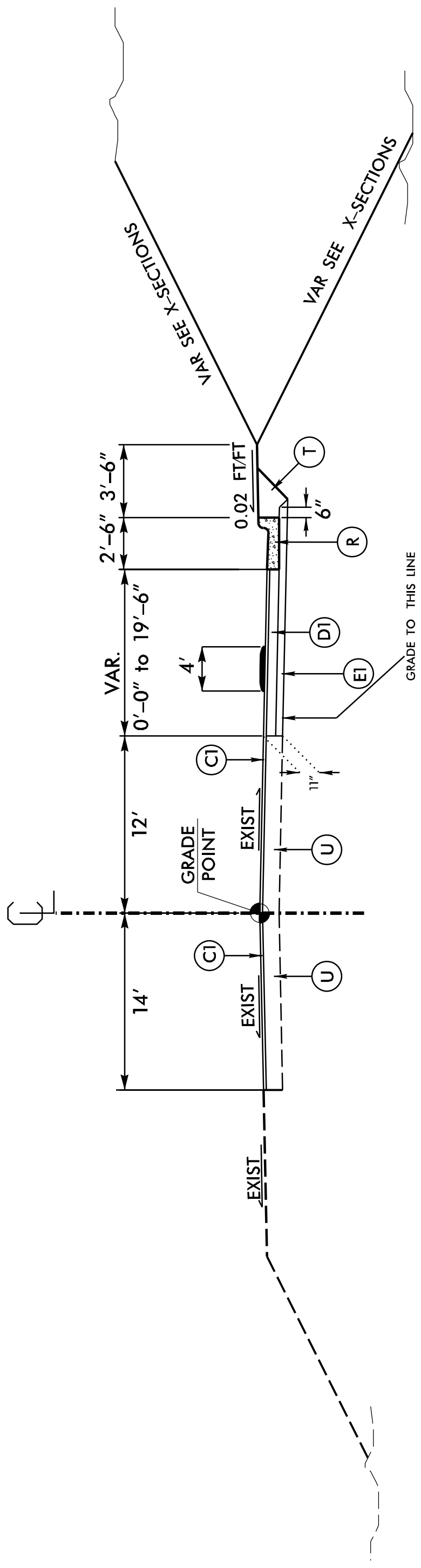
NOTE: DRAWING NOT TO SCALE

PROJECT REFERENCE NO.	XXXX	SHEET NO.	2
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			



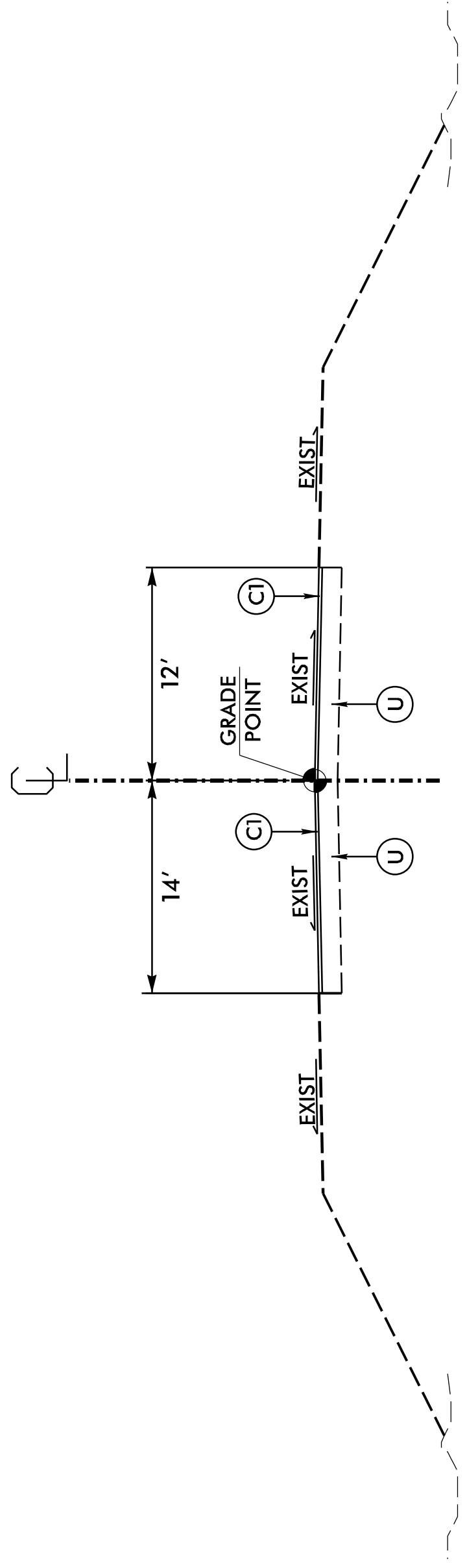
TYPICAL SECTION No. 1

-L- STA. 10+00.00 TO 14+50.00



TYPICAL SECTION No. 2

-L- STA. 14+50.00 TO 15+28.00



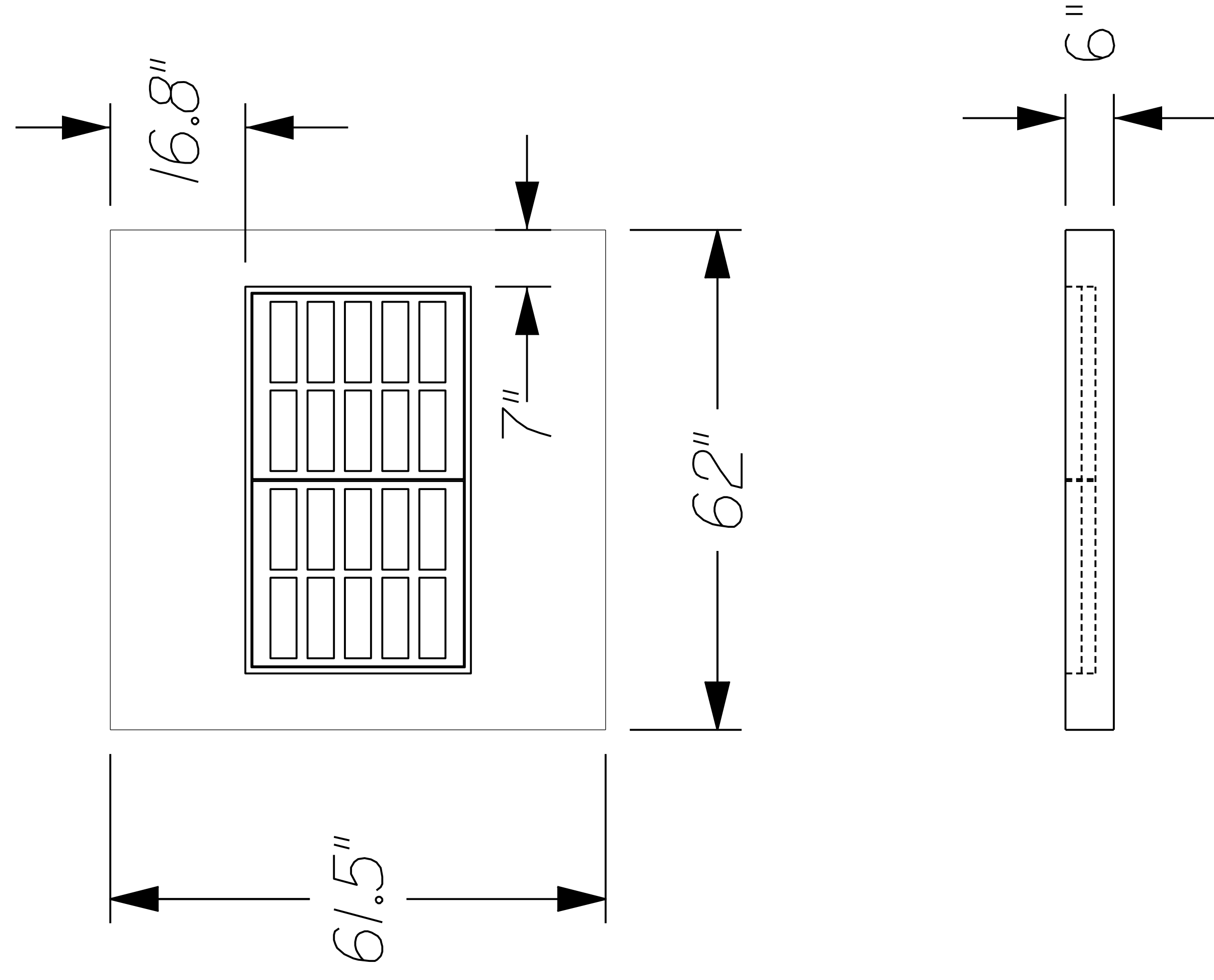
TYPICAL SECTION No. 3

-L- STA. 15+28.00 TO 17+00.00

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 5 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 313.5 LBS. PER SQ. YD IN EACH OF TWO LAYERS
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0 B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	2'-6" CONCRETE CURB & GUTTER
R2	5" MONOLITHIC CONCRETE ISLAND
T	EARTH MATERIAL

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT REFERENCE NO. 34340	SHEET NO. 2-A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REMOVE THE EXISTING FRAME AND COVER FROM THE EXISTING DROP INLET.

FABRICATE A NEW COVER TO THE DIMENSIONS SHOWN IN THIS DETAIL.

USE NCDOT STANDARD DRAWING 840.22 FOR FRAME AND GRATE

USE NCDOT STANDARD DRAWING 840.25 FOR ANCHORAGE FOR GRATES.

DETAIL FOR FRAME AND GRATE RISER

USE AT DRAINAGE STRUCTURE #5

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	SECTION	QUANTITY
00001000000-N	MOBILIZATION	LS	800	1
00004000000-N	CONSTRUCTION SURVEYING	LS	801	1
00430000000-N	GRADING	LS	226	1
00500000000-E	SUPPLEMENTARY CLEARING & GRUBBING	ACR	226	1
01340000000-E	DRAINAGE DITCH EXCAVATION	CY	240	25
03180000000-E	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	TON	300	60
03200000000-E	FOUNDATION CONDITIONING GEOTEXTILE	SY	300	190
03660000000-E	15" RC PIPE CULVERTS, CLASS III	LF	310	44
03720000000-E	18" RC PIPE CULVERTS, CLASS III	LF	310	12
03780000000-E	24" RC PIPE CULVERTS, CLASS III	LF	310	332
03840000000-E	30" RC PIPE CULVERTS, CLASS III	LF	310	112
05820000000-E	15" CS PIPE CULVERTS, 0.064" THICK	LF	310	60
09731000000-E	48" WELDED STEEL PIPE IN SOIL	LF	330	72
09950000000-E	PIPE REMOVAL	LF	340	82
12200000000-E	INCIDENTAL STONE BASE	TON	545	15
14890000000-E	ASPHALT CONC BASE COURSE, TYPE B25.0B	TON	610	150
14980000000-E	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	TON	610	200
15190000000-E	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	TON	610	280
15750000000-E	ASPHALT BINDER FOR PLANT MIX	TON	620	35
22090000000-E	ENDWALLS	CY	838	6
22860000000-N	MASONRY DRAINAGE STRUCTURES	EA	840	12
23080000000-E	MASONRY DRAINAGE STRUCTURES	LF	840	12
23642000000-N	FRAME WITH TWO GRATES, STD 840.20	EA	840	1
23650000000-N	FRAME WITH TWO GRATES, STD 840.22	EA	840	6
23740000000-N	FRAME WITH GRATE & HOOD, STD 840.03, TYPE **	EA	840	5
23960000000-N	FRAME WITH COVER, STD 840.54	EA	840	1
25490000000-E	2-6" CONCRETE CURB & GUTTER	LF	846	123
26550000000-E	5" MONOLITHIC CONCRETE ISLANDS(KEYED IN)	SY	852	82
28300000000-N	ADJUSTMENT OF MANHOLES	EA	858	1
30300000000-E	STEEL BM GUARDRAIL	LF	862	150
31500000000-N	ADDITIONAL GUARDRAIL POSTS	EA	862	5
32700000000-N	GUARDRAIL ANCHOR UNITS, TYPE 350	EA	SP	2
36280000000-E	RIP RAP, CLASS I	TON	876	40
36490000000-E	RIP RAP, CLASS B	TON	876	30
36560000000-E	GEOTEXTILE FOR DRAINAGE	SY	876	210
44000000000-E	WORK ZONE SIGNS (STATIONARY)	SF	1110	48
44050000000-E	WORK ZONE SIGNS (PORTABLE)	SF	1110	96
44300000000-N	DRUMS	EA	1130	100
44550000000-N	FLAGGER	MD	1150	30
46850000000-E	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	LF	1205	1238
46860000000-E	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	LF	1205	1983
46950000000-E	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	LF	1205	140
47100000000-E	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	LF	1205	68
47250000000-E	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	EA	1205	2
49050000000-N	SNOWFLOWABLE PAVEMENT MARKERS	EA	1253	15
52550000000-N	PORTABLE LIGHTING	LS	1413	1
60000000000-E	TEMPORARY SILT FENCE	LF	1605	300
60090000000-E	STONE FOR EROSION CONTROL, CLASS B	TON	1610	25
60120000000-E	SEDIMENT CONTROL STONE	TON	1610	50
60180000000-E	SEED FOR TEMPORARY SEEDING	LB	1620	25
60210000000-E	FERTILIZER FOR TEMPORARY SEED-ING	TON	1620	0.1
60300000000-E	SILT EXCAVATION	CY	1630	20
60360000000-E	MATTING FOR EROSION CONTROL	SY	1631	850
60420000000-E	1/4" HARDWARE CLOTH	LF	1632	185
60710200000-E	POLYACRYLAMIDE (PAM)	LB	SP	10
60840000000-E	SEEDING & MULCHING	ACR	1660	0.5
60900000000-E	SEED FOR REPAIR SEEDING	LB	1661	25
60930000000-E	FERTILIZER FOR REPAIR SEEDING	TON	1661	0.1
60960000000-E	SEED FOR SUPPLEMENTAL SEEDING	LB	1662	40
61080000000-E	FERTILIZER TOPDRESSING	TON	1665	0.1
61170000000-N	RESPONSE FOR EROSION CONTROL	EA	SP	3

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
PARCEL INDEX

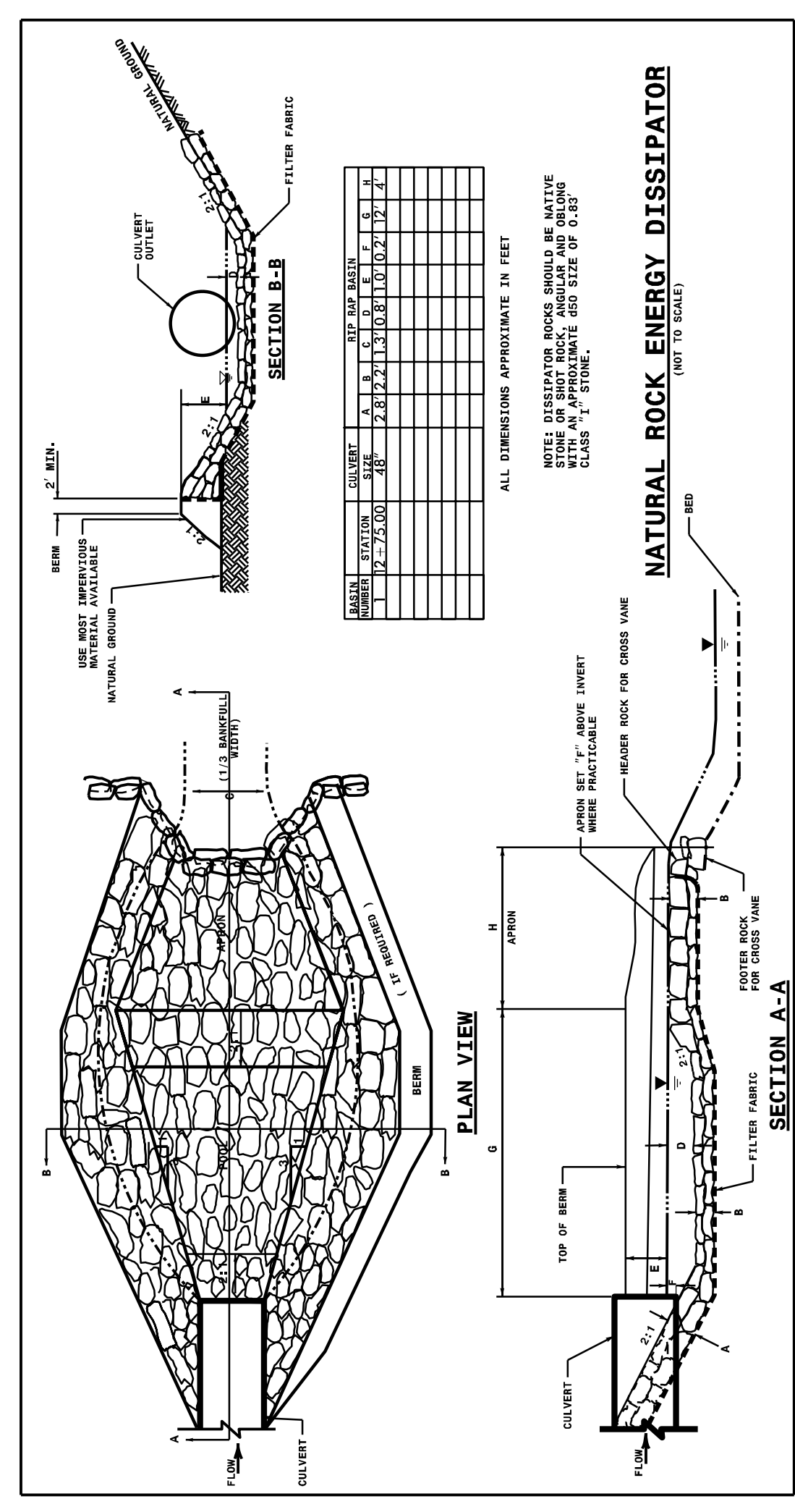
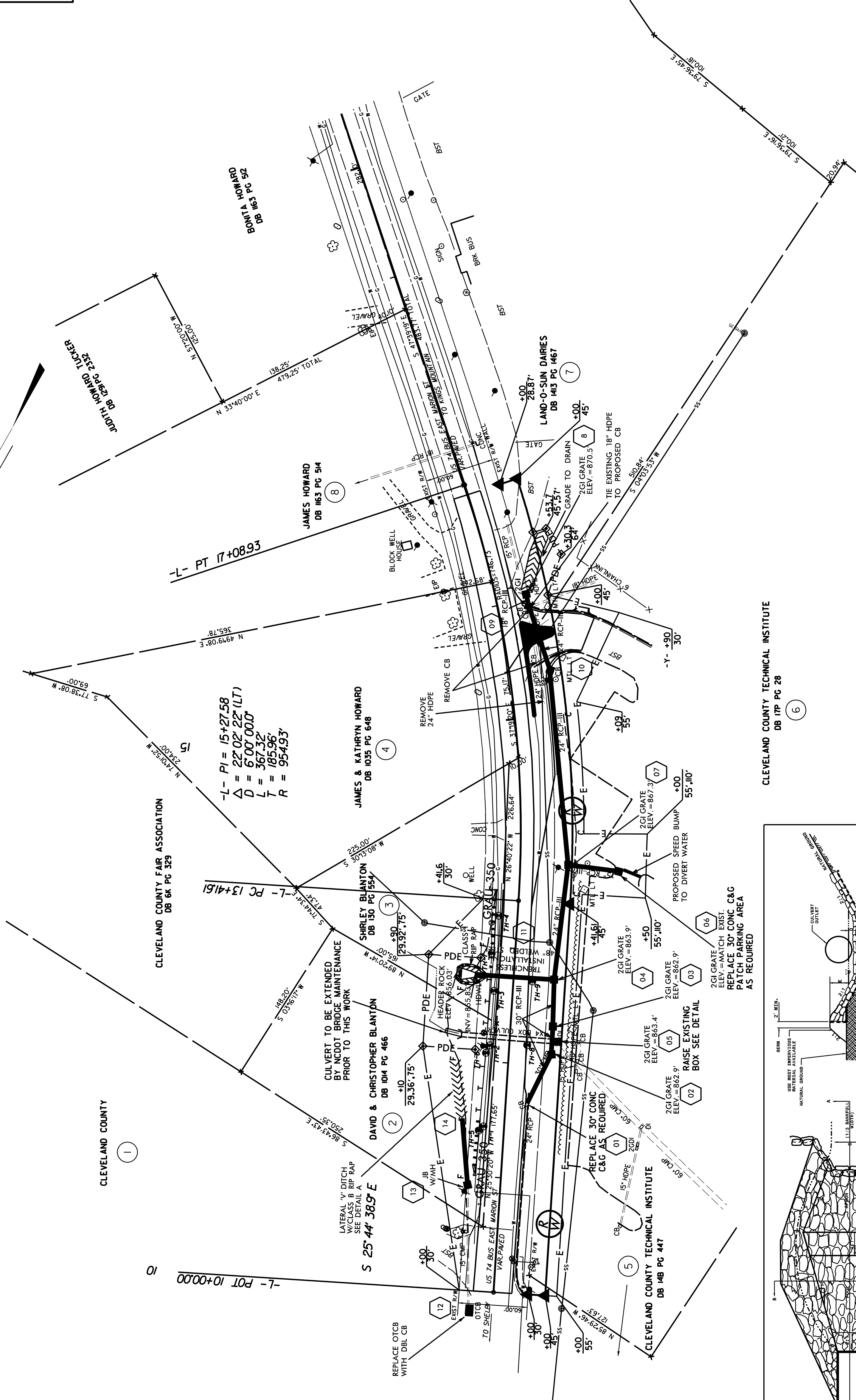
PARCEL NO.	PROPERTY OWNERS NAME	PLAN SHEET
1	CLEVELAND COUNTY FAIR ASSOCIATION	4
2	DAVID & CHRISTOPHER BLANTON	4
3	SHIRLEY BLANTON	4
4	JAMES & KATHRYN HOWARD	4
5	CLEVELAND COUNTY TECHNICAL INSTITUTE	4
6	CLEVELAND COUNTY TECHNICAL INSTITUTE	4
7	LAND-O-SUN DAIRIES	4
8	JAMES HOWARD	4

SUE DATA 6: GAS
 TH-1 Elev= 865.14'
 TH-2 Elev= 862.35'
 TH-3 Elev= 862.35'
 TH-4 Elev= 862.38'

SUE DATA 8: WATER (CCSD)
 TH-5 Elev= 864.79'
 TH-6 Elev= 862.56'
 TH-7 Elev= 862.26'

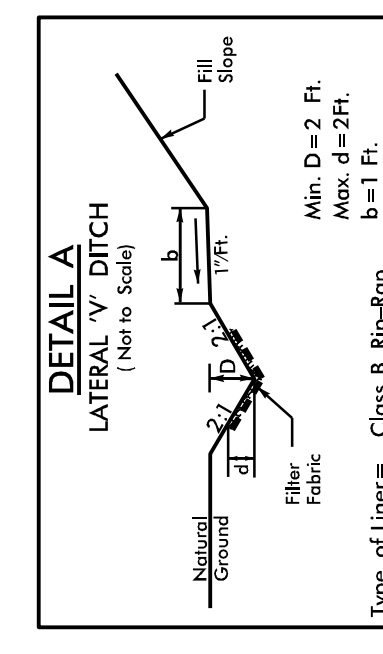
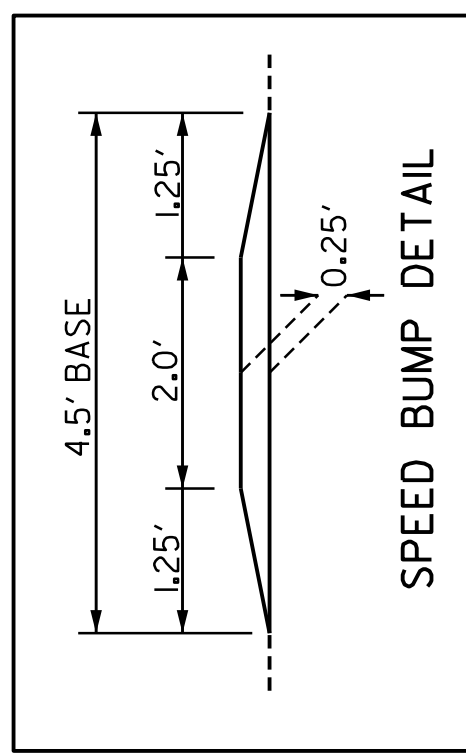
SUE DATA 6: WATER (SHELBY)
 TH-8 Elev= 863.67'
 TH-9 Elev= 862.83'

-L- PI = 15+27.58
 $\Delta = 22^{\circ}02'22''$ (LT)
 $D = 6'00''00.0'$
 $L = 367.32'$
 $T = 185.96'$
 $R = 954.93'$



MARK	STATION	TYPE	DESCRIPTION
01	10+00.00	24\"/>	

ALL DIMENSIONS APPROXIMATE IN FEET
 NOTE: DISSIPATOR ROCKS SHOULD BE NATIVE STONE OR APPROXIMATE AND SIZE OF ROCKS CLASS "1" STONE.

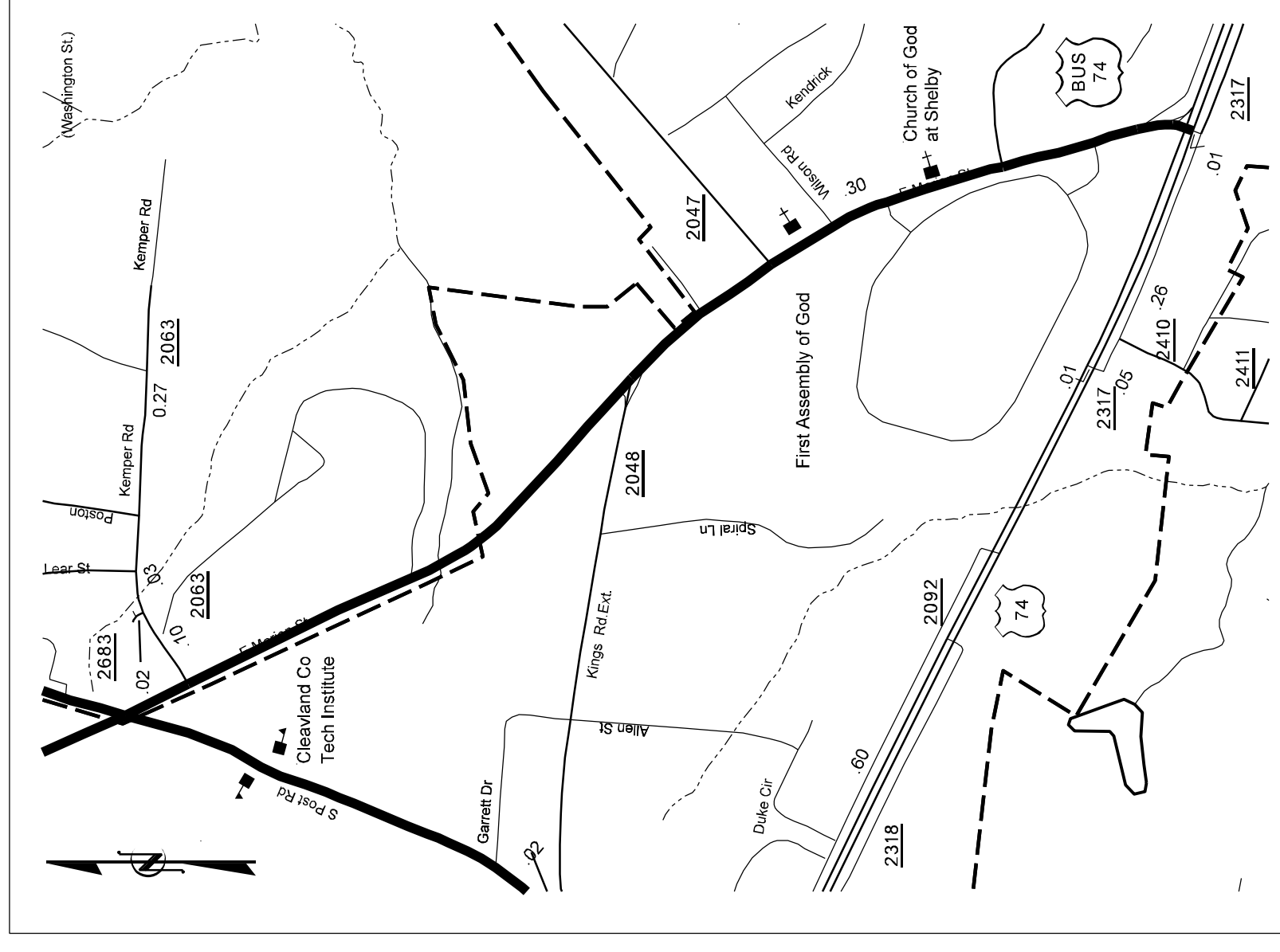
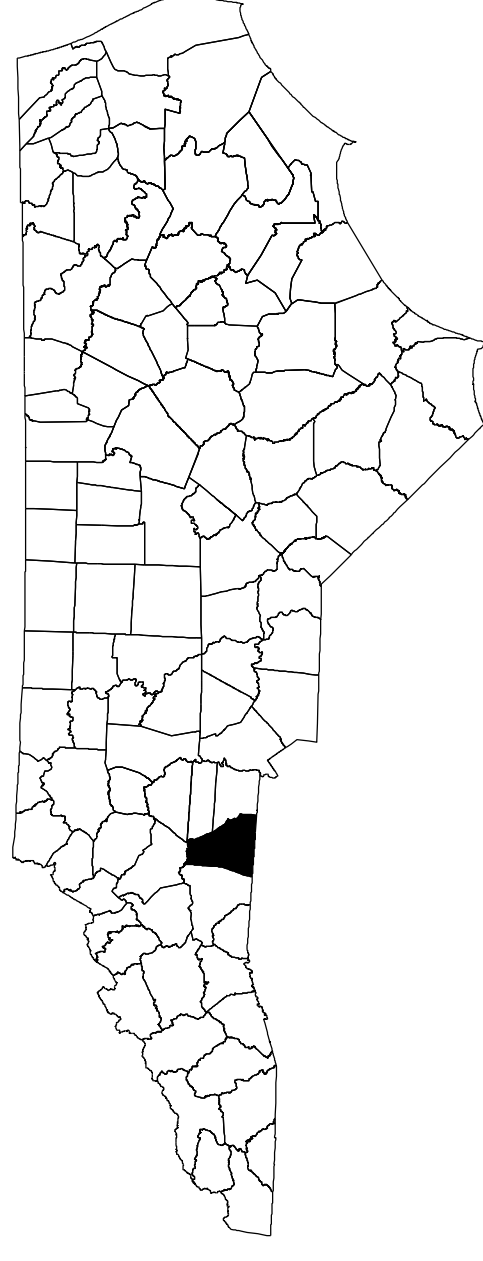


FROM STA. 11+50 TO STA. 12+50
 Type of Lining = Class B Rip-Rap
 Min. D=2 Ft.
 Max. d=2 Ft.
 b=1 Ft.

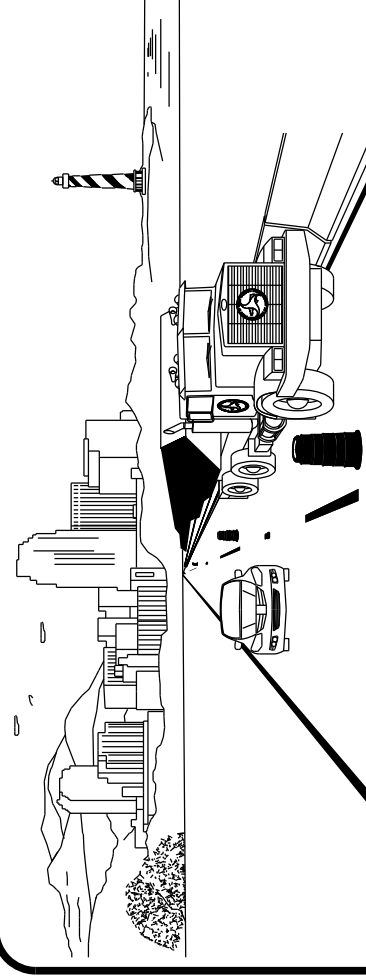
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CLEVELAND COUNTY



VICINITY MAP NOT TO SCALE



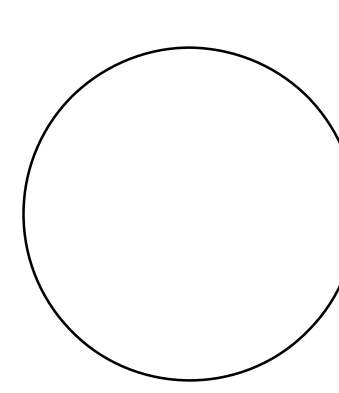
WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
TRAFFIC CONTROL PROJECT ENGINEER
TRAFFIC CONTROL PROJECT DESIGN ENGINEER
TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: _____
DATE: _____



SEAL

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-2	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-3	GENERAL NOTES AND LOCAL NOTES)
TMP-4	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEMWAYS ADVANCED WORK ZONE WARNING SIGNS
PM-1	PAVEMENT MARKING SCHEDULE
PM-2	PAVEMENT MARKING PLANS

43430

TIP PROJECT:

SHEET NO.
TMP-1

\$\$\$SYTIME\$\$\$
\$\$\$USERNAME\$\$\$
\$\$\$DGN\$\$\$

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:


STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - EXIST. PVMT.
 - NORTH ARROW
 - PROPOSED PVMT.
- TRAFFIC CONTROL DEVICES**
- CONE
 - DRUM
 - SKINNY DRUM
 - TEMPORARY CRASH CUSHION
 - FLASHING ARROW BOARD
 - FLAGGER
 - LAW ENFORCEMENT
 - TRUCK MOUNTED ATTENUATOR (TMA)
 - CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGNING**
- PORTABLE SIGN
 - STATIONARY SIGN
 - STATIONARY OR PORTABLE SIGN
- PAVEMENT MARKERS**
- CRYSTAL/CRYSTAL
 - CRYSTAL/RED
 - YELLOW/YELLOW
- PAVEMENT MARKING SYMBOLS**
- PAVEMENT MARKING SYMBOLS

APPROVED: _____ DATE: _____

SEAL



ROADWAY STANDARD DRAWINGS & LEGEND

MANAGEMENT STRATEGIES

GENERAL NOTES / LOCAL NOTES

PROJ. REFERENCE NO. 43430 SHEET NO. TMP-3

CONSTRUCTION

WIDEN & CONSTRUCT TURN LANE AS SHOWN ON PLANSHEET 4. INSTALL DRAINAGE STRUCTURES AS SHOWN ON PLANSHEET 4. SURFACE PAVEMENT AS SHOWN ON PLANSHEETS 2 & 4. CONSTRUCT CONCRETE ISLAND AS SHOWN ON PLANSHEET 4. PLACE PAVEMENT MARKINGS AND MAKERS AS SHOWN ON PLANSHEETS PMP-1 THRU PMP-3.

TMP DESIGN PARAMETERS

MAINTAIN TRAFFIC AND PROTECT WORKERS DURING CONSTRUCTION ACTIVITIES USING TEMPORARY LANE CLOSURES AS SHOWN IN STANDARD DRAWING 1101.02 SHEET 1 OF 15.

TRAFFIC WILL NEED TO BE MAINTAINED AT THE DRIVEWAYS TO ALL BUSINESSES AND PRIVATE PROPERTY ON THE PROJECT DURING THE LIFE OF THE PROJECT.

GENERAL NOTES / LOCAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

-L- US 74 BUS (E. MARION ST.) & -Y- LINE CLEVELAND COMMUNITY COLLEGE ENTRANCE MONDAY THRU THURSDAY 6:00 A.M. TO 7:00 P.M. AND THURSDAY 7:00 P.M. THRU SATURDAY 12:00 A.M.

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 P.M. DECEMBER 31st TO 7:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 A.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 P.M. THURSDAY AND 7:00 A.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 P.M. FRIDAY TO 7:00 A.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 A.M. THE DAY AFTER INDEPENDENCE DAY.
IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 P.M. FRIDAY AND 7:00 A.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 P.M. TUESDAY TO 7:00 A.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- B) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- E) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

TRAFFIC PATTERN ALTERATIONS

- F) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- G) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- H) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- I) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADIUS, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- J) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- K) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

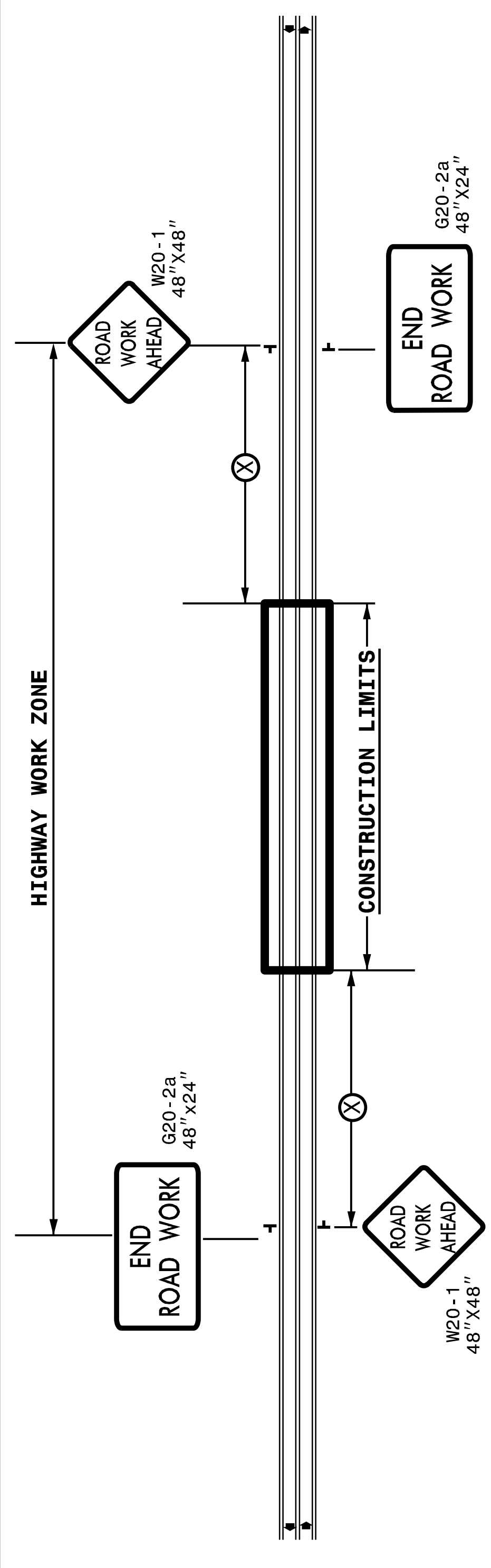
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SEAL

TRANSPORTATION OPERATIONS PLAN

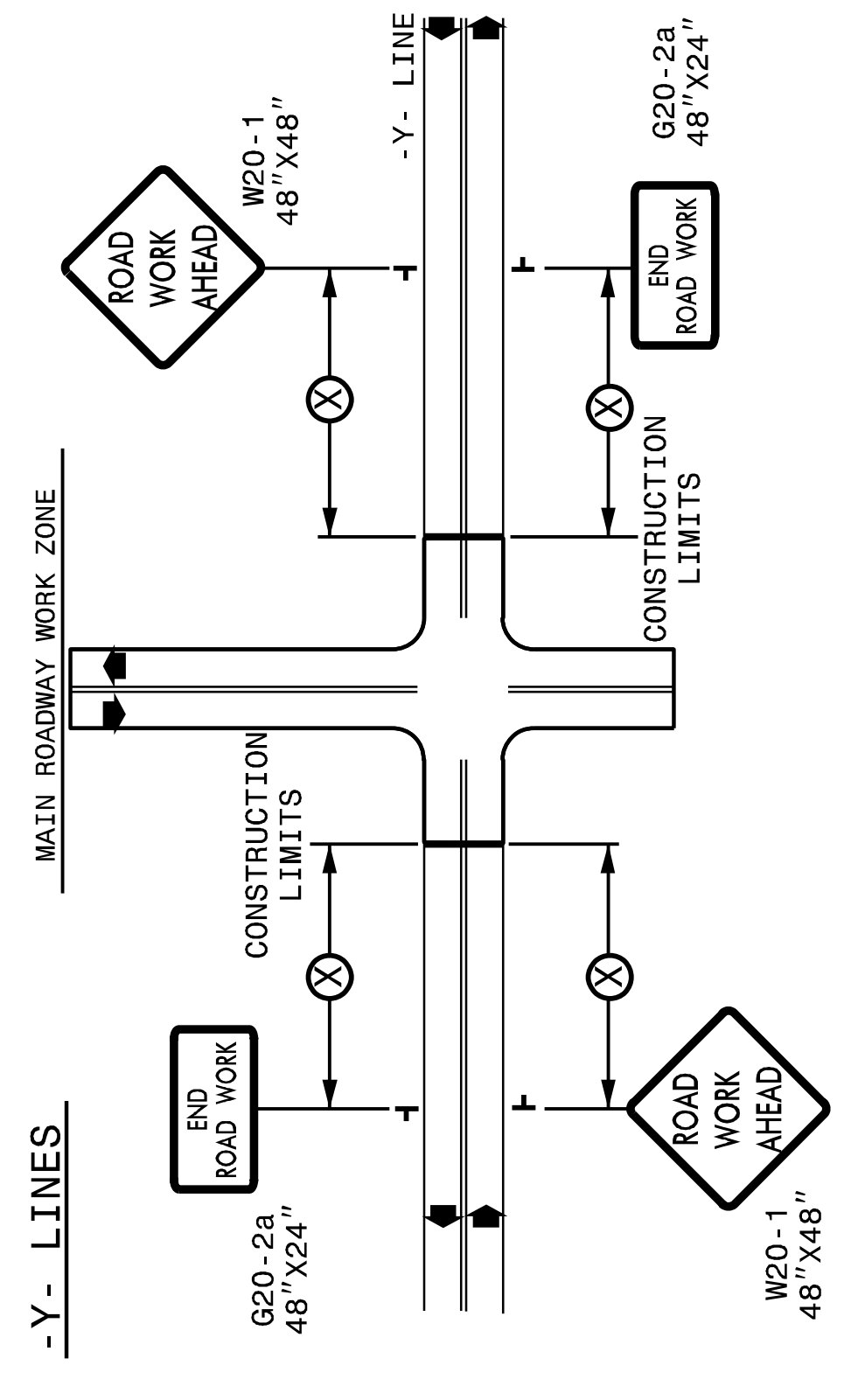
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\$\$\$\$\$DN\$\$\$\$\$

TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B). MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

⊥ STATIONARY SIGN

➡ DIRECTION OF TRAFFIC FLOW

APPROVED: _____ DATE: _____

SEAL



\$\$\$\$\$SYSTEM\$\$\$\$\$
\$\$\$\$\$SERNAME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$

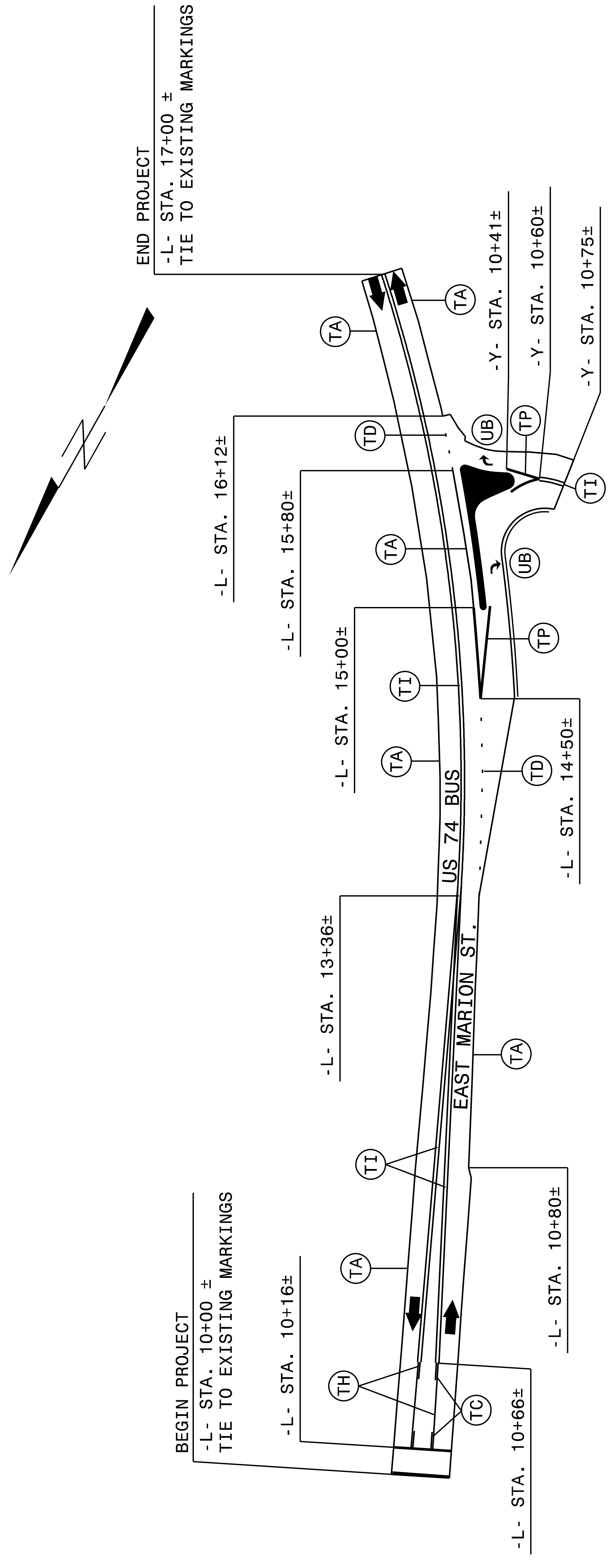
FINAL PAV'T MARKING SCHEDULE

Pavement Marking Schedule
TIP Project # 43430

SYMBOL	DESCRIPTI	FINAL PAVEMENT MARKINGS	PAY ITEM QUANTITY	TOTAL
T3	WHITE CROSSWALK LINE	THERMOPLASTIC(24", 120 MILS)	68 LF	68 LF
TC	10 FT. WHITE SKIP	THERMOPLASTIC(4", 120 MILS)	26 LF	1983 LF
TD	2 FT. WHITE MINISKIP		19 LF	
TH	YELLOW SINGLE CENTER		100 LF	
TI	YELLOW DOUBLE CENTER		1838 LF	
TA	WHITE EDGE LINE	THERMOPLASTIC(4", 90 MILS)	1238 LF	1238 LF
TP	WHITE GORE LINE	THERMOPLASTIC(8", 90 MILS)	140 LF	140 LF
UB	RIGHT TURN ARROW	THERMOPLASTICPAVEMENT MARKING SYMBOLS (90 MILS)	2 EA	2 EA
			TOTAL	2 EA

SEE ROADWAY STANDARD DRAWING NUMBERS 1205.01, 1205.02, 1205.04, 1205.05, 1205.06, 1205.08, 1205.09, 1250.01 AND 1253.01

APPROVED: _____ DATE: _____		FINAL PAVEMENT MARKING PLAN										
SCALE: NONE DATE: 06-11 DWG. BY: BKS DESIGN BY: _____ REVIEWED BY: _____		REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>										



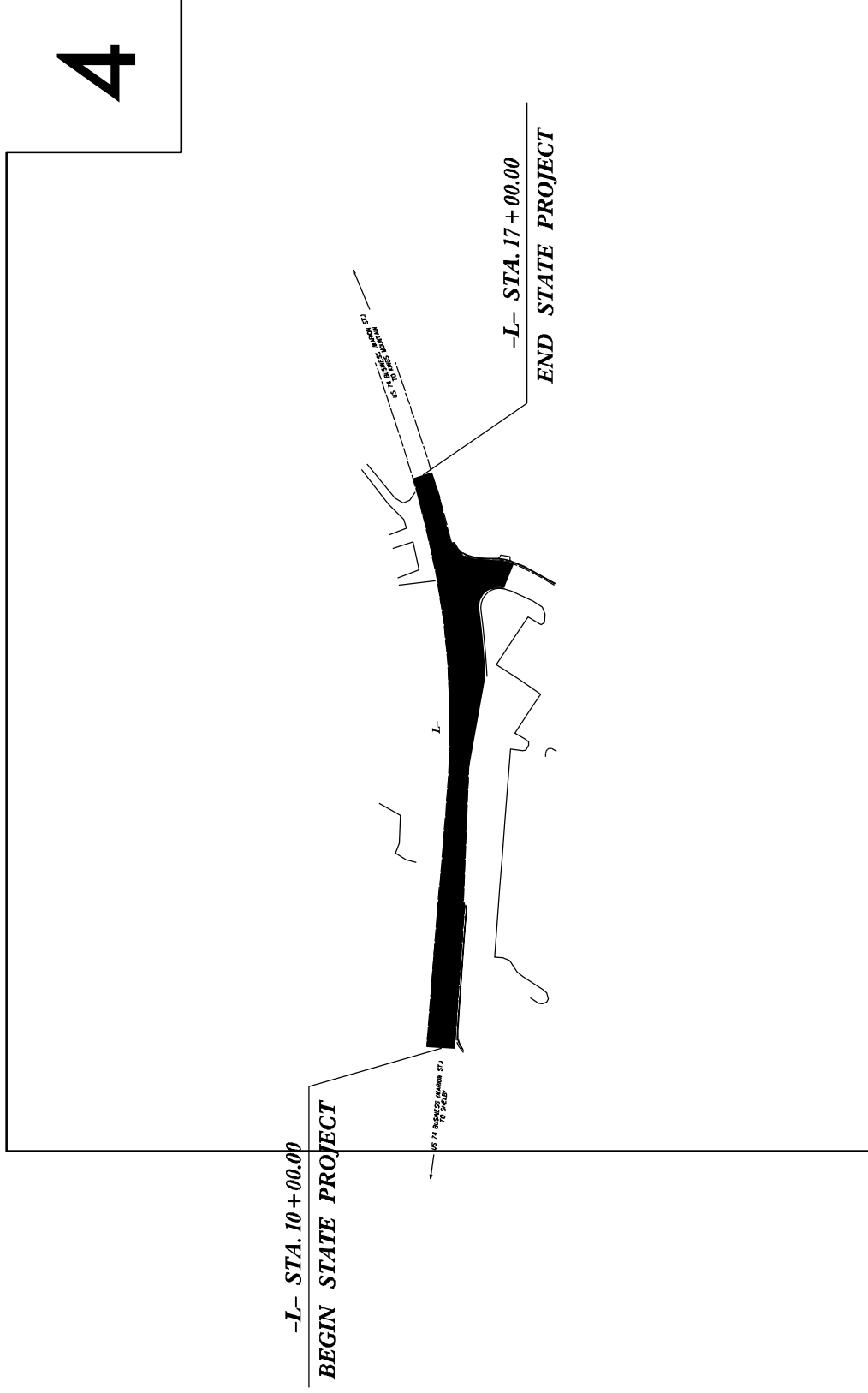
NOTES:

- SEE SHEET PM-1, FOR FINAL PAVEMENT MARKING SCHEDULE.
- PAVEMENT MARKINGS, SYMBOLS, AND CHARACTERS ARE TO BE MARKED ACCORDING TO ROADWAY STANDARD DRAWINGS UNLESS OTHERWISE NOTED IN THE PLANS.

APPROVED:	DATE:
SEAL	
SCALE:	NONE
DATE:	
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	
FINAL PAVEMENT MARKING PLAN	
REVISIONS	

TIP PROJECT: 43430

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



B.K. SOWELL
LEVEL III-A NAME
332
LEVEL III-A NUMBER

STATE	STATE PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
N.C.	4430	EC-1	
STATE SYMBOL	S.A. NUMBER	DESCRIPTION	

- ### EROSION AND SEDIMENT CONTROL MEASURES
- Standard*
- 1630.05 Temporary Silt Ditch
 - 1630.06 Temporary Diversion
 - 1640.01 Temporary Silt Fence
 - 1640.01 Special Sediment Control Fence
 - 1650.01 Temporary Berms and Slope Drains
 - 1650.02 Silt Basin Type B
 - 1650.01 Temporary Rock Silt Check Type-A
 - 1650.01 Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)
 - 1650.02 Temporary Rock Silt Check Type-B
 - Wattle / Coir Fiber Wattle
 - Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)
 - 1650.01 Temporary Rock Sediment Dam Type-A
 - 1650.02 Temporary Rock Sediment Dam Type-B
 - 1650.01 Rock Pipe Inlet Sediment Trap Type-A
 - 1650.02 Rock Pipe Inlet Sediment Trap Type-B
 - 1650.04 Stilling Basin
 - 1650.06 Special Stilling Basin
 - 1650.01 Rock Inlet Sediment Trap Type A
 - 1650.02 Type B
 - 1650.05 Type C
 - Skimmer Basin
 - Tiered Skimmer Basin
 - Infiltration Basin

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

GRAPHIC SCALE

PLANS
0

PROFILE (HORIZONTAL)
0

PROFILE (VERTICAL)
0

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-000000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
DIVISION 12 DDC UNIT
1710 East Marion St.
Shelby, NC 28152

2012 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 January 2012 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
1606.01 Special Sediment Control Fence
1632.03 Rock Inlet Sediment Trap Type C

EROSION CONTROL & PIPE INSTALLATION SCHEDULE

GENERAL E&SC NOTES

GROUND STABILIZATION CHART

Erosion Control Schedule and Notes

1. Generally, the order of installation of the erosion control measures will be as follows:
 - A. Temporary silt basins shall be installed before clearing and grubbing begins.
 - B. Silt fences and temporary silt ditches shall be installed after clearing and before grading.
 - C. Temporary stone ditch checks with PAM or wattles with PAM shall be installed in all disturbed areas as soon as the disturbance begins.
 - D. Final stone ditch checks or wattles shall be installed as soon as ditch line is established.
 - E. Pipe outlet and inlet protection will be done as soon as the pipe is installed.
 - F. Other permanent erosion control measures are to be implemented as soon as practical.
2. Temporary rock silt checks, type B will be spaced by percent grade as shown in the erosion control plan.
3. No. 5 stone, or equivalent, will be used in conjunction with the temporary rock silt checks in locations where water is leaving the project or entering a pipe.
4. All devices are to be cleaned out when half full.
5. Establish permanent vegetation per ground stabilization chart.

Notes:

For silt basin size see the attached erosion control plans.

PAM is to be placed on all Type A checks and wattles in the erosion control chain except for the final device in HWQ and Trout projects.

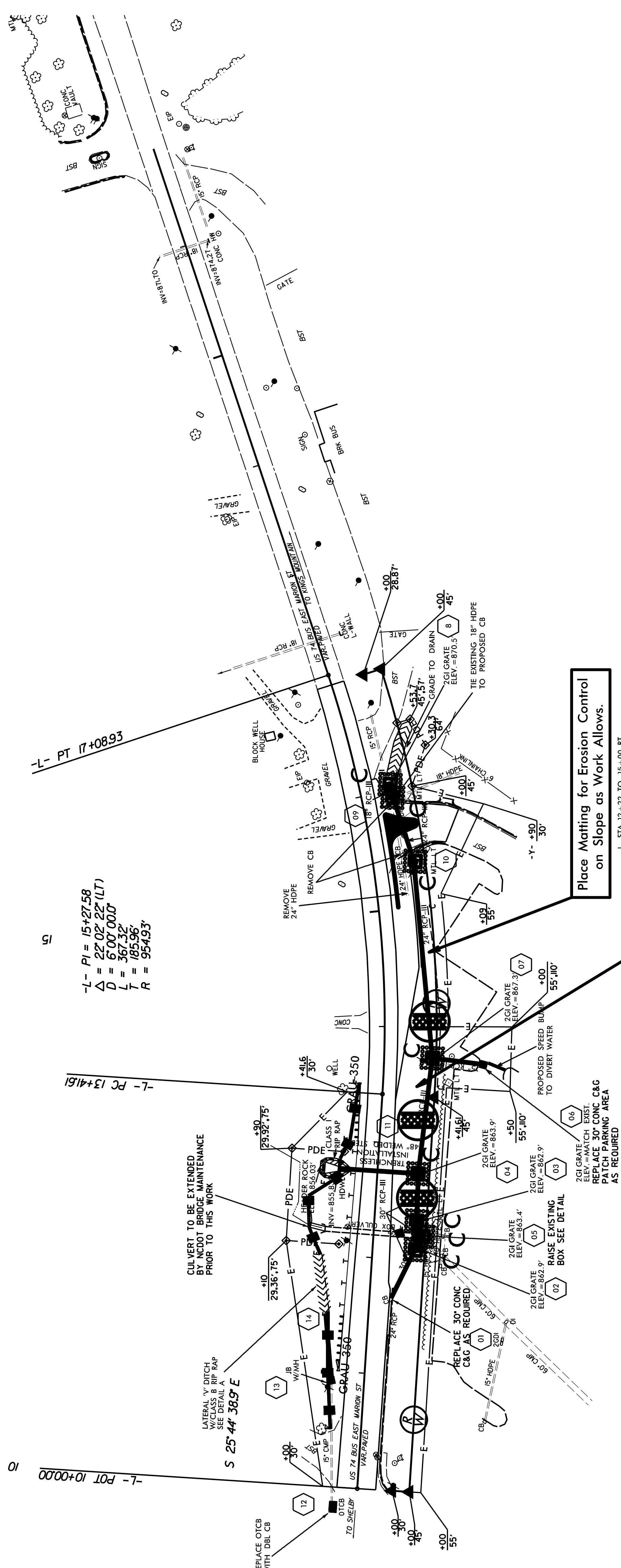
Pipe Installation Schedule and Notes

1. Prior to installing any E&SC measures identify permit conditions and impact area limits.
2. Install erosion control devices.
3. Remove material and existing pipe while limiting, material and sediment from entering stream and escaping the project.
4. Place the new pipe and compact backfill.
5. Install slope protection on the outlet and inlet ends of the pipe. Also complete installation of erosion control measures and perform maintenance as needed on existing measures.
6. Establish permanent vegetation per ground stabilization chart.

GROUND STABILIZATION CHART

Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10 ft. or less in length and are not steeper than 2:1, 14 days are allowed
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length
All other areas flatter than 4:1	14 days	None (except for perimeters and HQW zones)

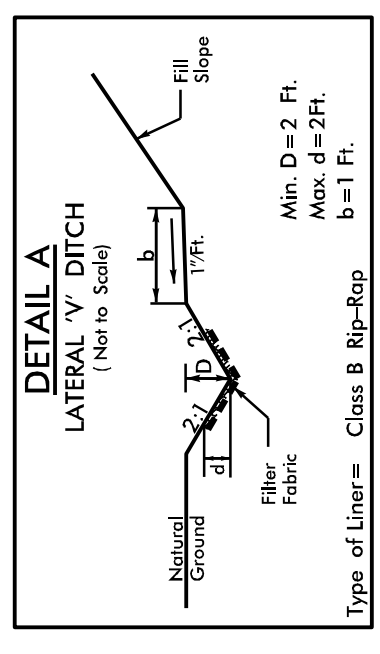
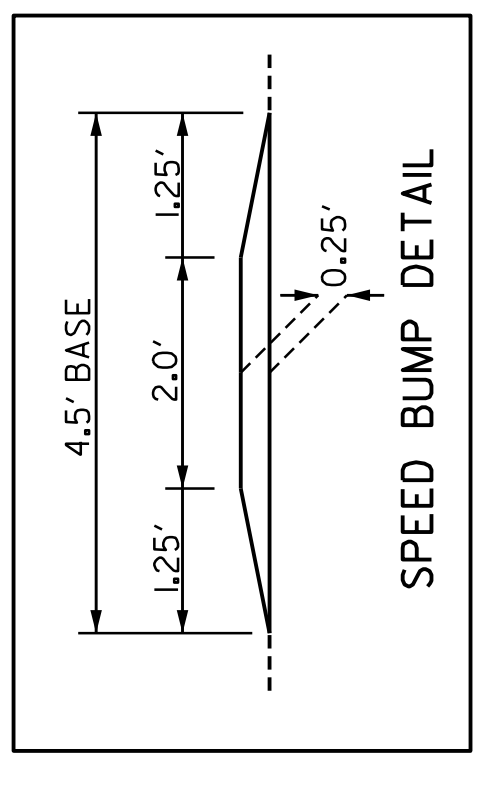
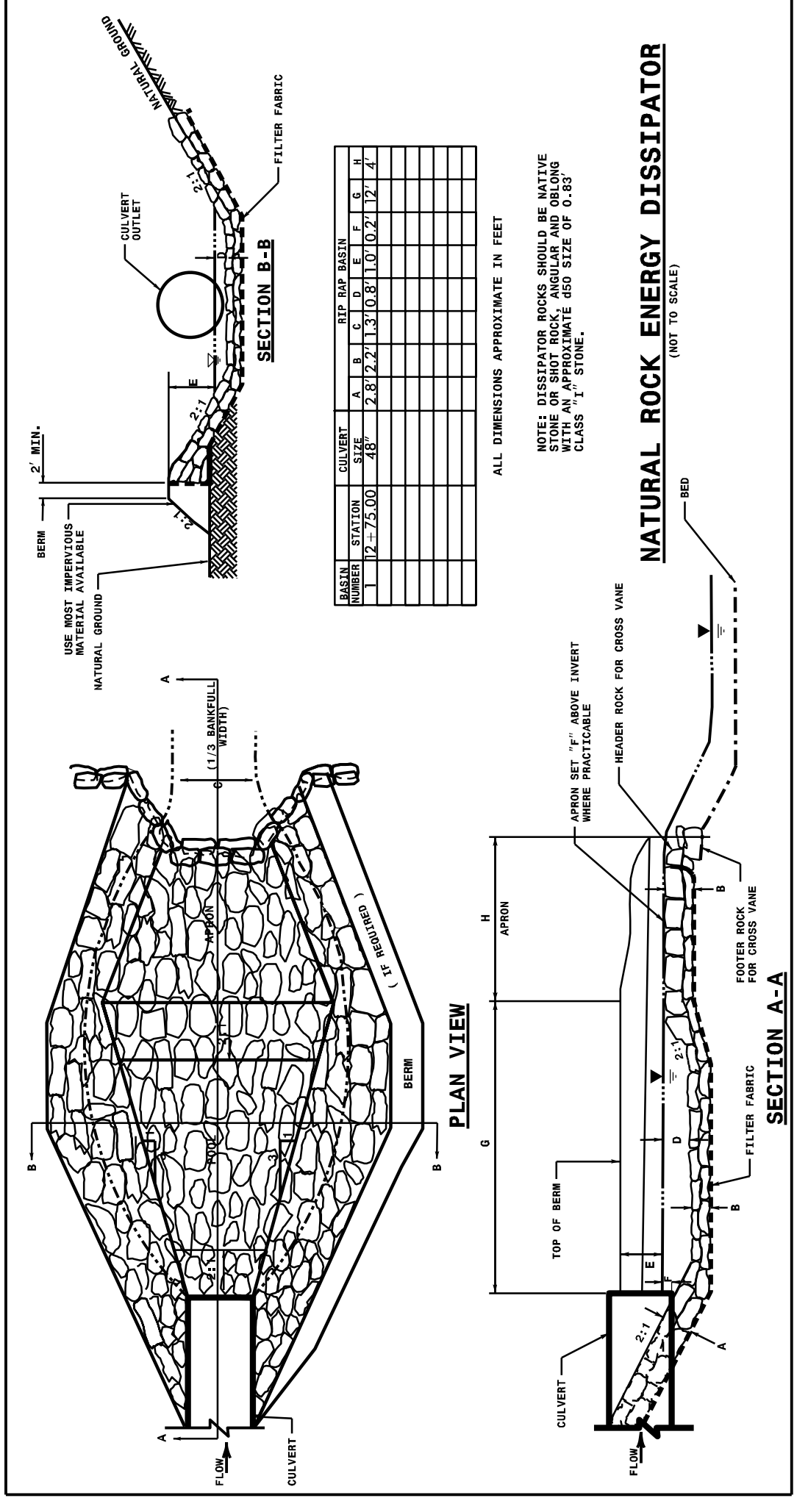
NOTES: TRSC-A HEIGHT 1.0' TYPICAL
 PLACE 3.0' SECTIONS OF SPECIAL SEDIMENT CONTROL FENCE AT LOW POINTS IN SILT FENCE AS DIRECTED BY THE ENGINEER TO FACILITATE DRAINAGE.



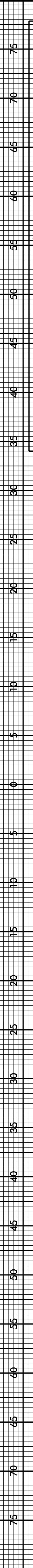
$-L- PI = 15+27.58$
 $\Delta = 22'02'' 22' (LT)$
 $D = 6'00'' 00.0'$
 $L = 367.32'$
 $T = 185.96'$
 $R = 954.93'$

Place Matting for Erosion Control on Slope as Work Allows.

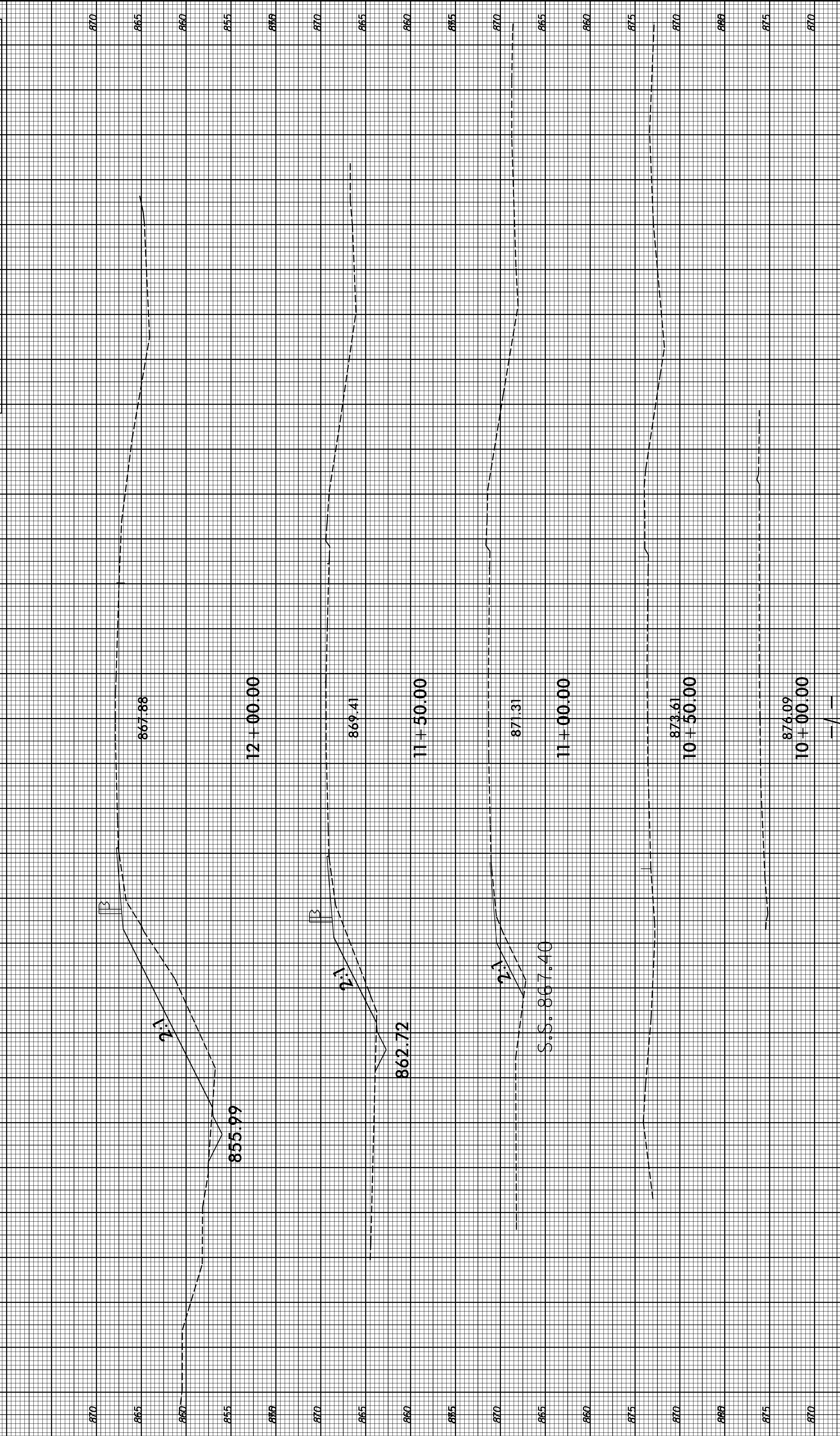
INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

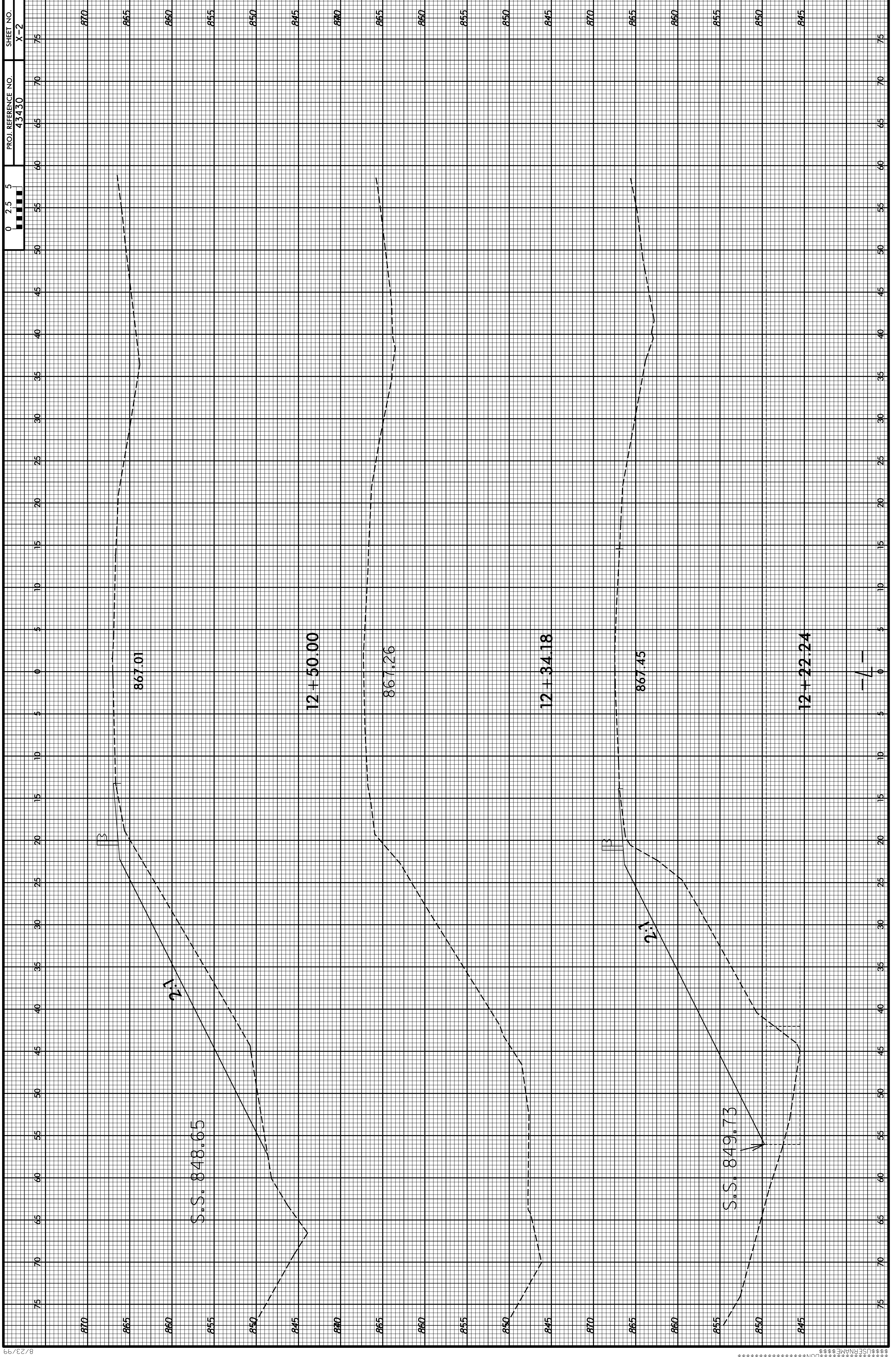


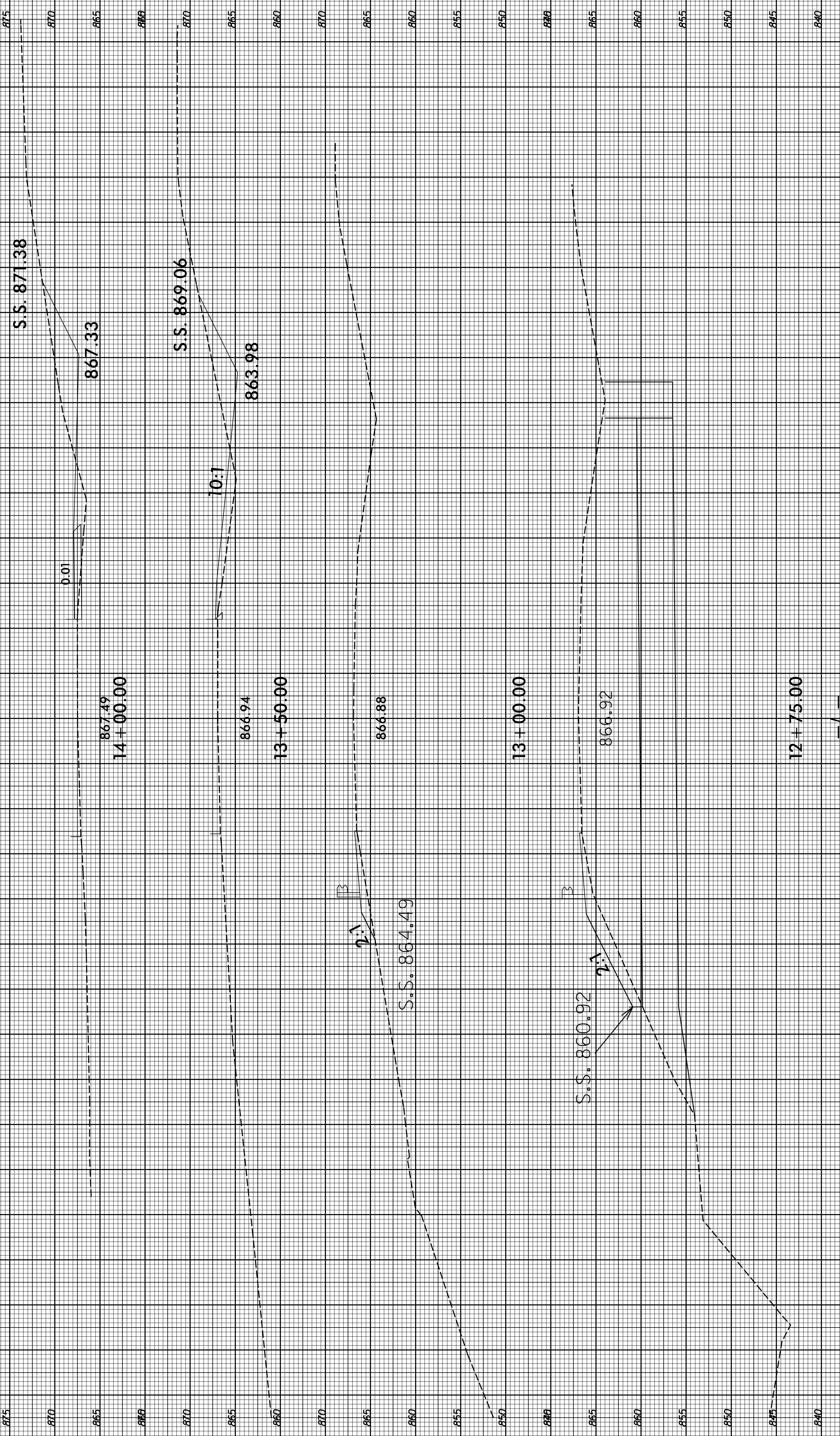
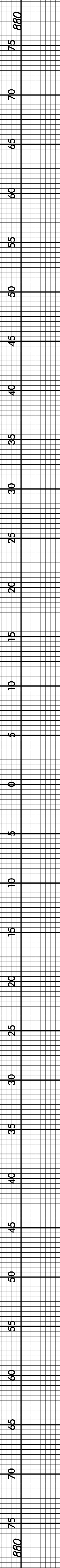
FROM STA. 11+50 TO STA. 12+50

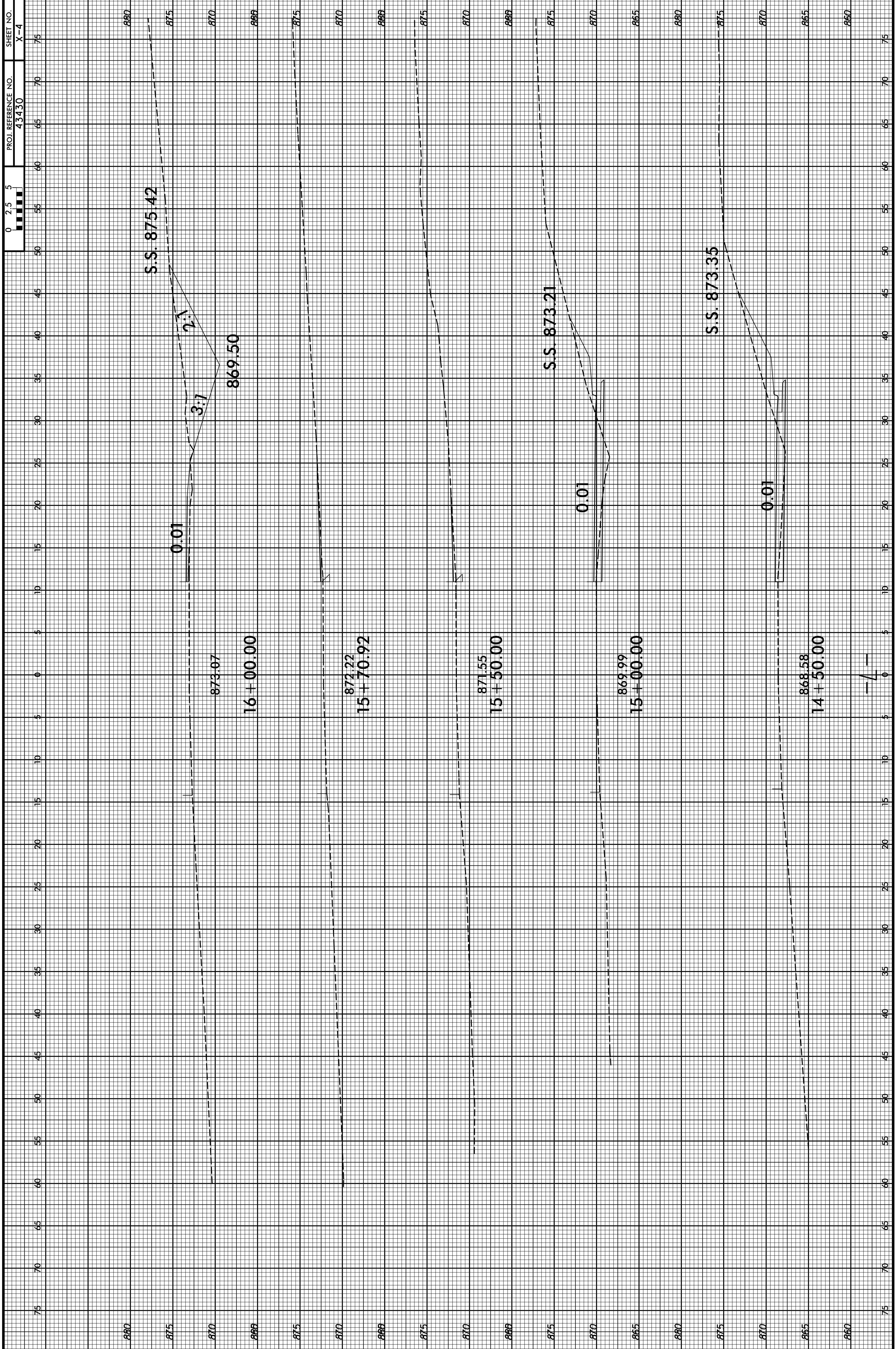


Notes: Approximate quantities only. Unclassified Excavation, Borrow, Excavation, Shoulder, Borrow, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the contract lump sum prices for "Grading."

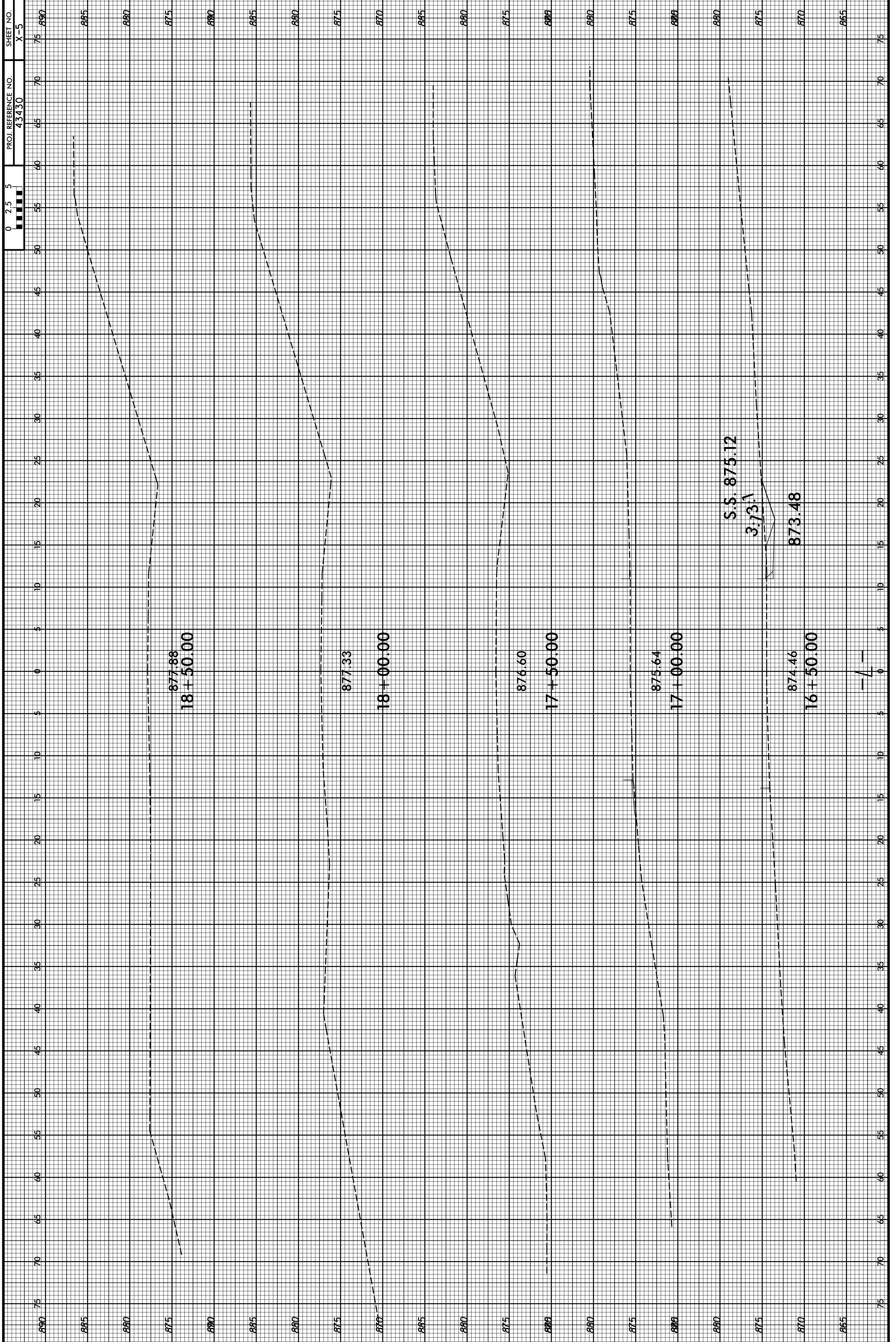








-4-



0 2.5 5
PROJ. REFERENCE NO. 43430
SHEET NO. X-5