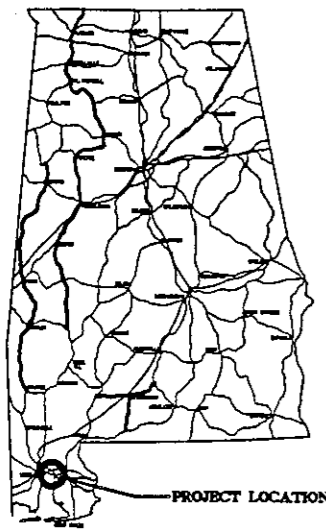


SHEET NO.	TOTAL SHEETS
1	26



**CITY OF SPANISH FORT**  
**PLANS OF PROPOSED**  
**PROJECT NO. 010701**  
**SPANISH FORT BLUFF STABILIZATION**  
**PHASE I**  
**BALDWIN COUNTY**  
 JUNE 30, 2004

SCALES { PLAN - 1"=50'  
 PROFILE - HORIZ. 1"=100'  
 VERT. 1"=20'  
 CROSS SECTIONS - HORIZ. 1"=20'  
 VERT. 1"=20'

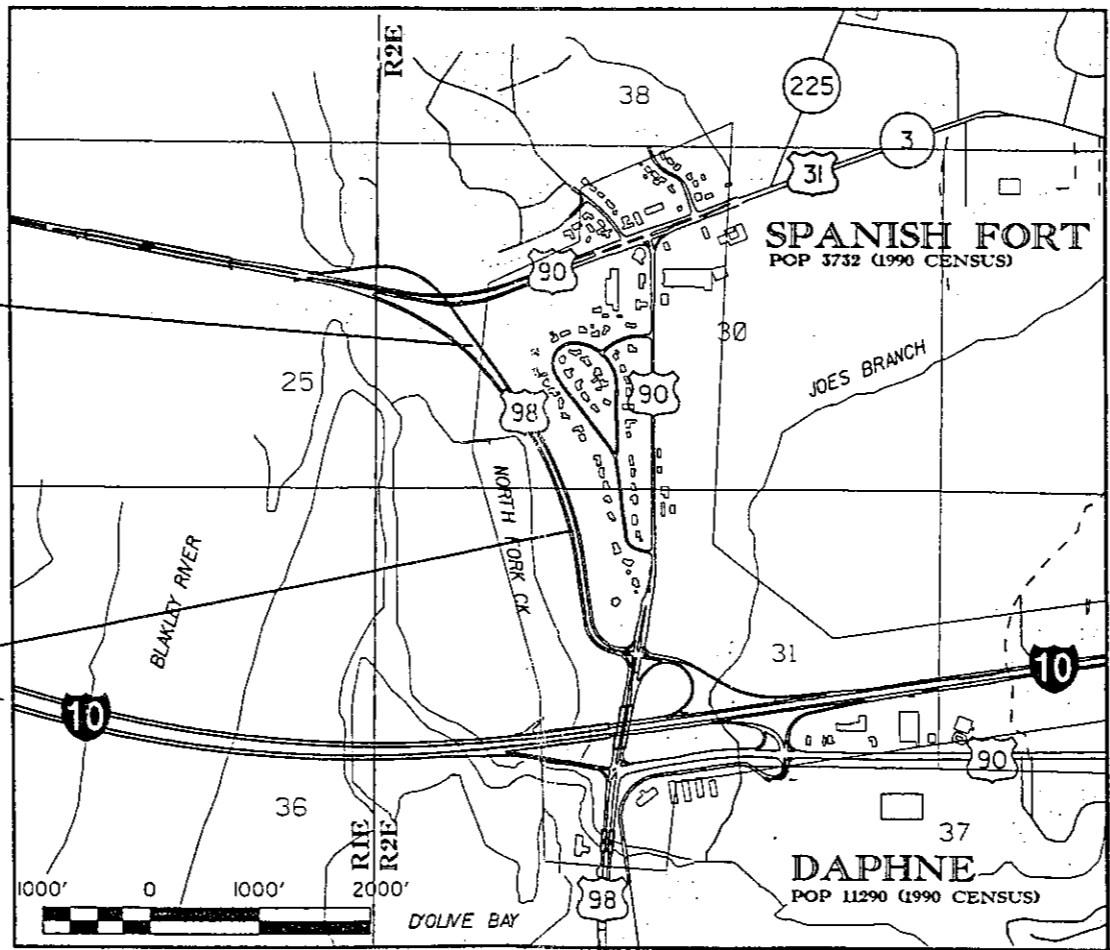
INDEX OF SHEETS

- 1 TITLE SHEET
- 1A PLANS LEGEND
- 2 TYPICAL SECTION
- 2A MISCELLANEOUS DETAILS
- 3 SUMMARY OF QUANTITIES
- 4-5 PLAN SHEETS
- 6 BENCH PROFILE
- 7-9 OMITTED
- 10 DRAINAGE SECTIONS
- 11-26 CROSS SECTIONS

END PROJECT  
 STA. 32+23.78  
 U.S. 98 WESTBOUND

BEGIN PROJECT  
 STA. 17+10.00  
 U.S. 98 WESTBOUND

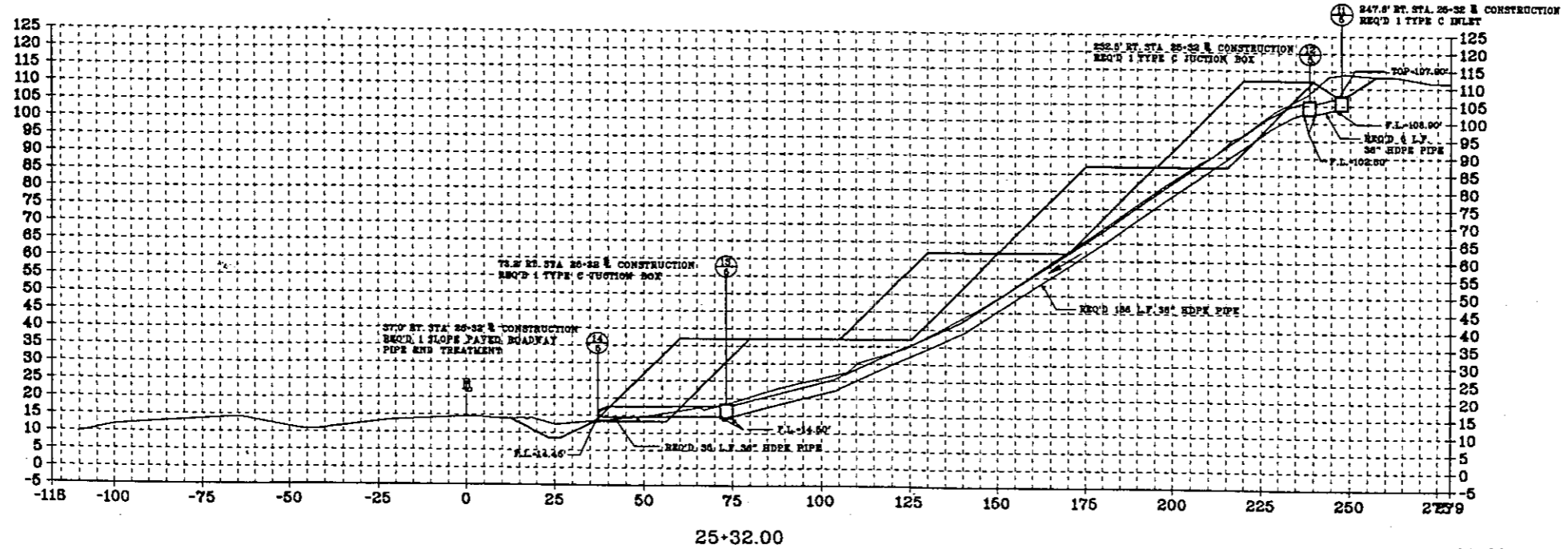
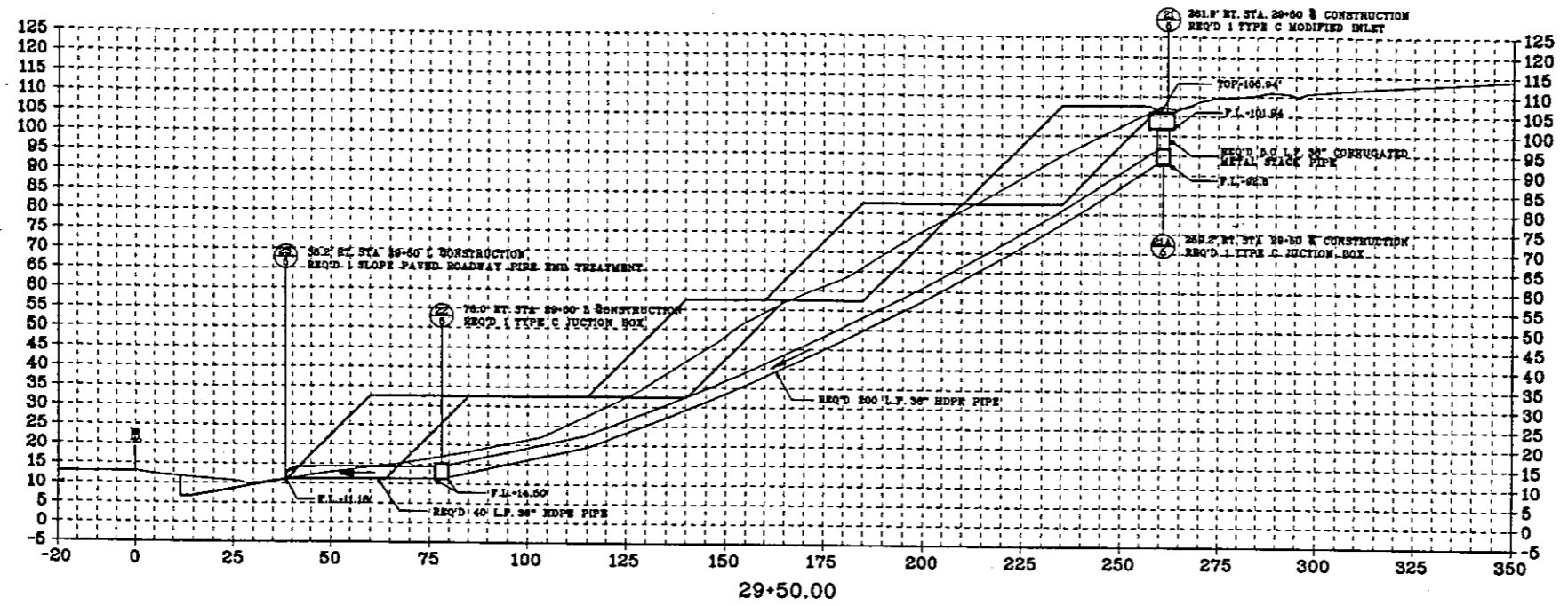
EQUATIONS & EXCEPTIONS  
 NONE



**PRELIMINARY**  
6-30-04

SYNERGY  
 EARTH SYSTEMS, INC.  
 VOLKERT & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

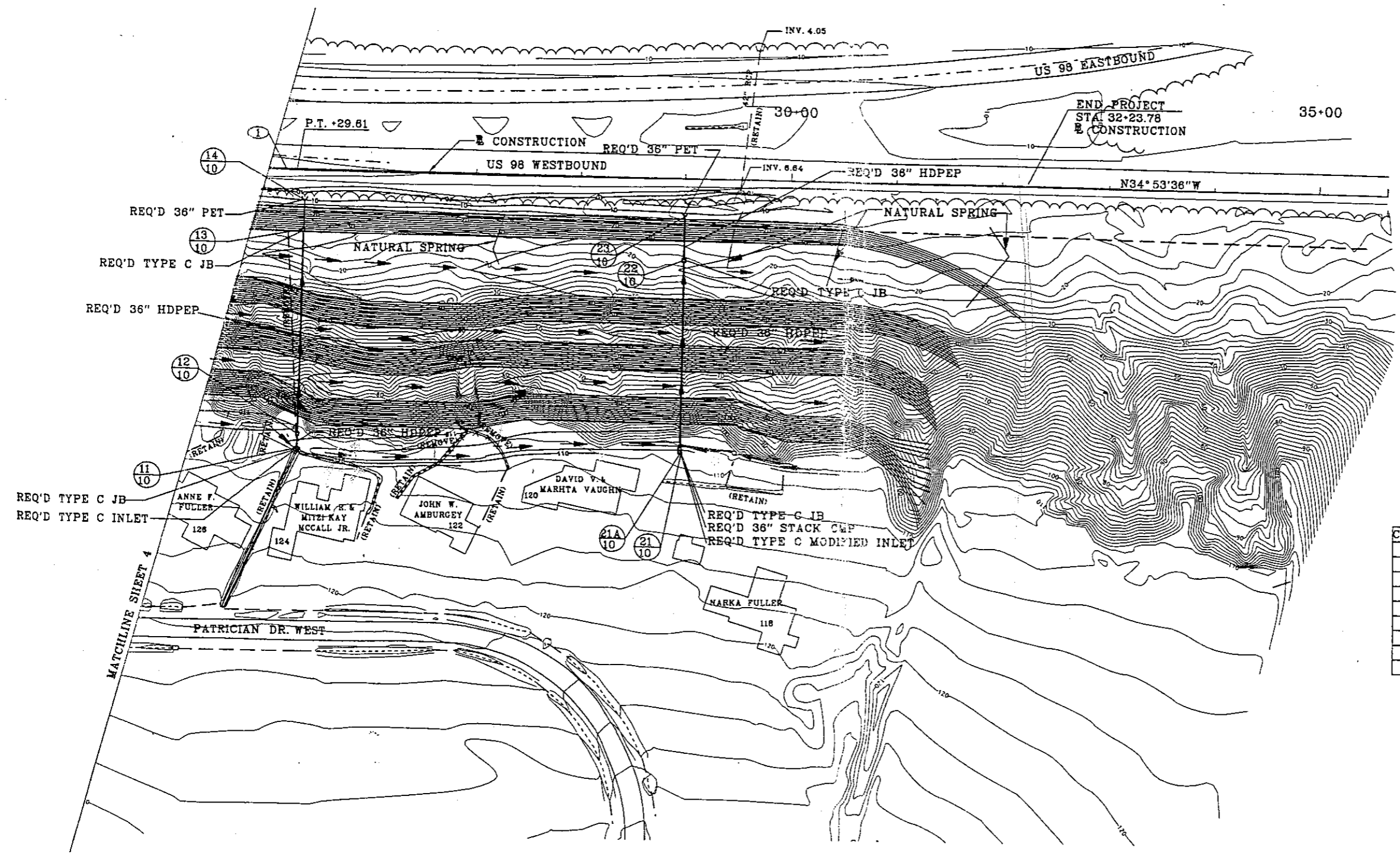
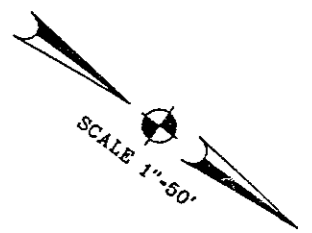
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
 PROJECT MANAGER  
 REGISTRATION NO. \_\_\_\_\_  
  
 APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
 VICE PRESIDENT  
 REGISTRATION NO. \_\_\_\_\_



SCALE 1"=20' HOR.  
1"=20' VER.

CITY OF SPANISH FORT		
DRAINAGE SECTIONS		
SYNERGY EARTH SYSTEMS, INC.		VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS
DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG. NO.

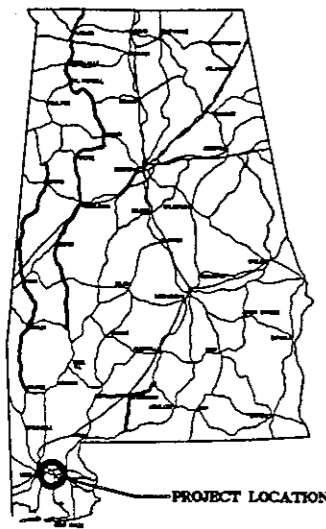
PROJECT: 2007-0000-0000-0000  
 SHEET: 10 OF 26  
 DATE: 08/14/07



CURVE NO.	①
P.I. STA.	18+09.72
P.T. STA.	10+61.76
P.T. STA.	25+29.61
Δ	27° 07' 47" LT.
D	1° 50' 54"
T	747.95
L	1467.85
R	3100.00'
"e"	N/A

CITY OF SPANISH FORT		
PLAN SHEET STA. 25+00 TO STA. 35+65		
SYNERGY EARTH SYSTEMS, INC.	VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG. NO.

SHEET NO.	TOTAL SHEETS
1	26



**CITY OF SPANISH FORT**  
**PLANS OF PROPOSED**  
**PROJECT NO. 010701**  
**SPANISH FORT BLUFF STABILIZATION**  
**PHASE I**  
**BALDWIN COUNTY**  
 JUNE 30, 2004

SCALES { PLAN - 1"=50'  
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 CROSS SECTIONS - HORIZ. 1"=20'  
 VERT. 1"=20'

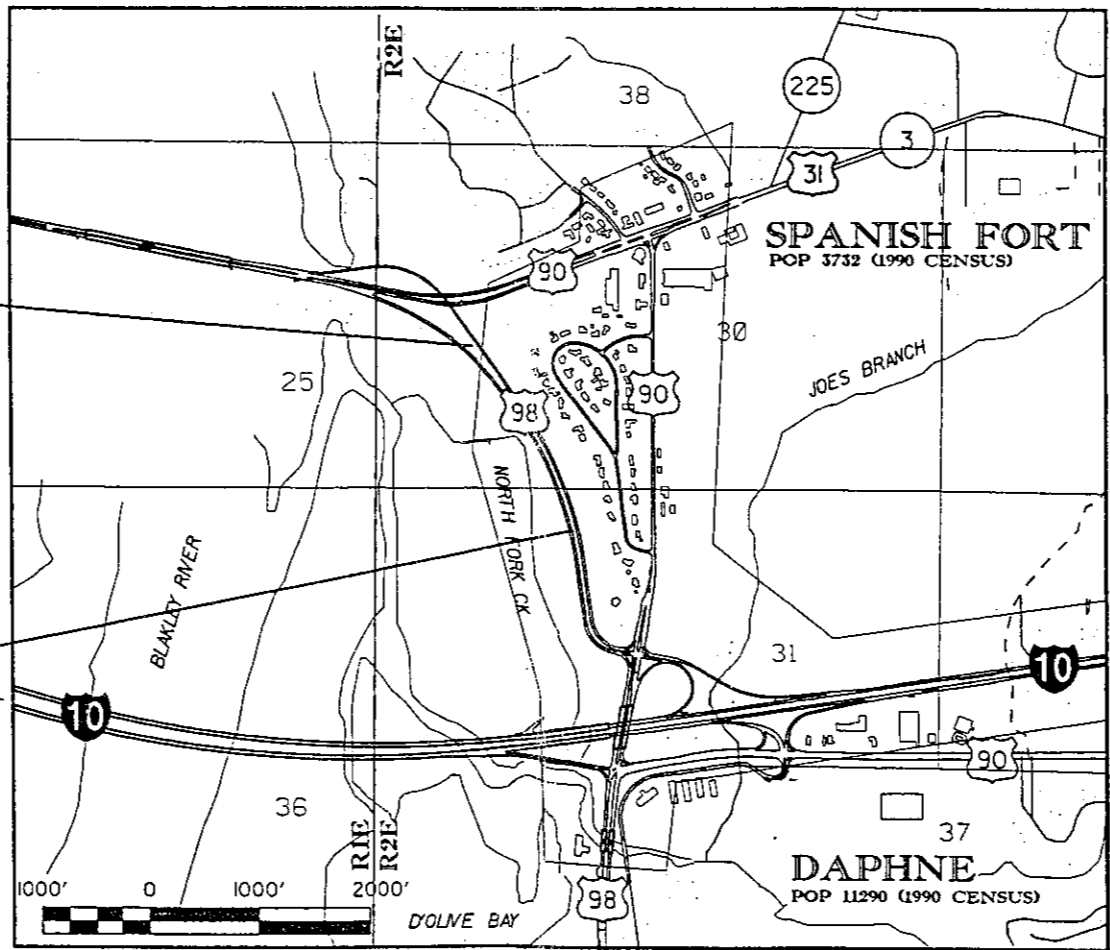
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- 3 SUMMARY OF QUANTITIES
- 4-5 PLAN SHEETS
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- 7-9 OMITTED
- 10 DRAINAGE SECTIONS
- 11-26 CROSS SECTIONS

END PROJECT  
 STA. 32+23.78  
 U.S. 98 WESTBOUND

BEGIN PROJECT  
 STA. 17+10.00  
 U.S. 98 WESTBOUND

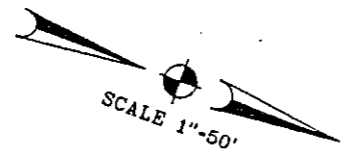
EQUATIONS & EXCEPTIONS  
 NONE



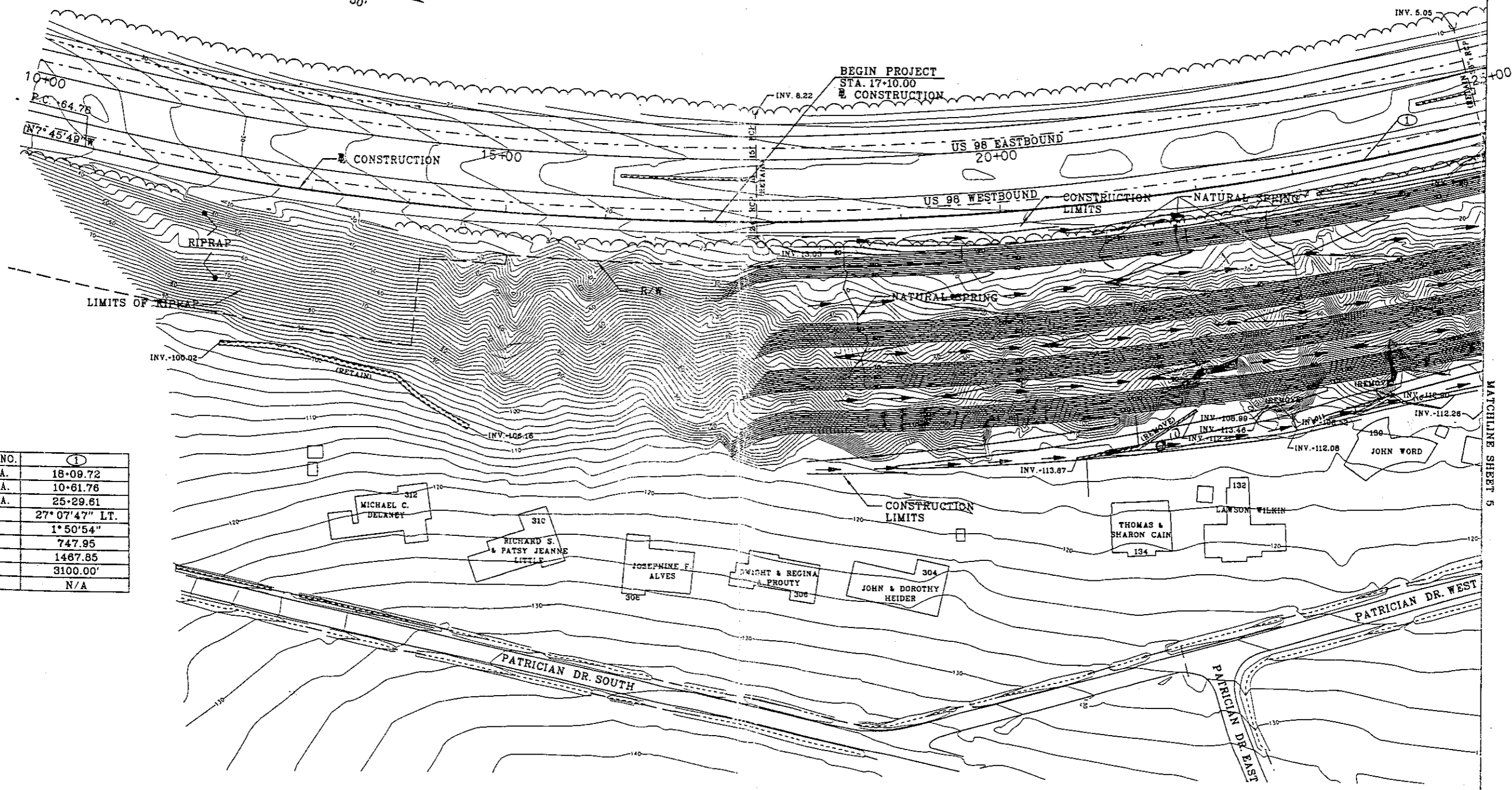
**PRELIMINARY**  
 6-30-04

SYNERGY  
 EARTH SYSTEMS, INC.  
 VOLKERT & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
 PROJECT MANAGER  
 REGISTRATION NO. \_\_\_\_\_  
  
 APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
 VICE PRESIDENT  
 REGISTRATION NO. \_\_\_\_\_



CURVE NO.	①
P.I. STA.	18+09.72
P.T. STA.	10+61.76
P.T. STA.	25+29.61
Δ	27° 07' 47" LT.
D	1° 50' 54"
T	747.95
L	1467.85
R	3100.00'
"e"	N/A

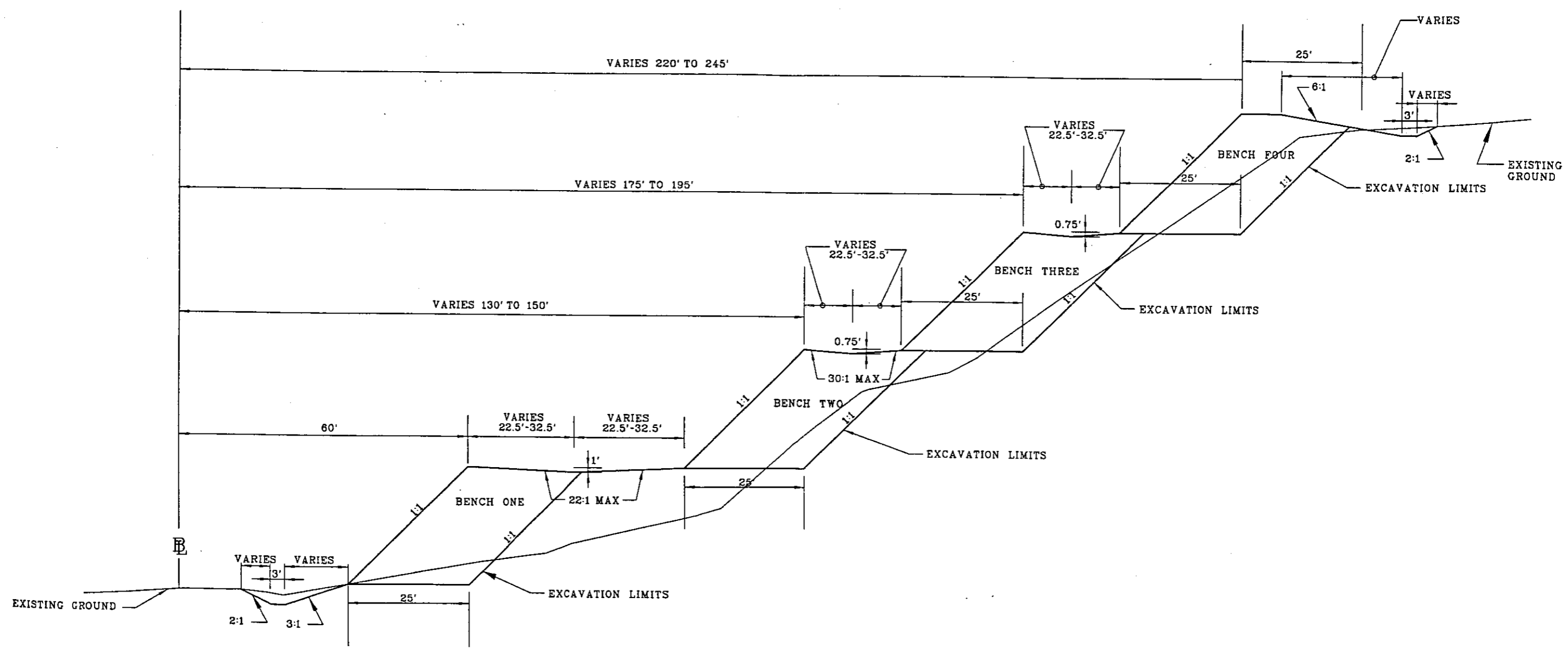


MATCHLINE SHEET 5

CITY OF SPANISH FORT		
PLAN SHEET STA. 10+00 TO STA. 25+00		
SYNERGY EARTH SYSTEMS, INC.		VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS
DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG. NO.







TYPICAL SECTION  
 STA. 17+10.00 TO STA. 32+23.78

CITY OF SPANISH FORT		
TYPICAL SECTIONS		
SYNERGY EARTH SYSTEMS, INC.		VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS
DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG. NO.

REVISIONS



# PLANS LEGEND

SHEET NO.	TOTAL SHEETS
1A	26

## ABBREVIATIONS

ACRE .....	AC.	SQUARE FEET .....	S.F. OR SQ. FT.
AHEAD .....	AH.	SQUARE YARD .....	S.Y. OR SQ. YD.
ALTERNATE .....	ALT.	STANDARD DRAWING .....	STD. DWG.
ACQUIRED .....	ACQ'D.	STATION .....	STA.
ASPHALT .....	ASP.	STEEL .....	STL.
BACK .....	BK.	STRUCTURE .....	STR.
BARREL .....	BBL.	SUPERELEVATION .....	S.E. OR 'e'
BASELINE .....	B	TANGENT .....	T.
BENCH MARK .....	B.M.	TRANSITIONAL END SECTION .....	T.E.S.
BRICK RESIDENCE .....	BR.RES.	TURNOUT .....	T.O.
BRIDGE .....	BR.	TYPICAL .....	TYP.
BUILDING .....	BLDG.	VERTICAL CLEARANCE .....	VERT. CL.
CENTERLINE .....	C	VERTICAL CURVE LENGTH .....	V.C.
CONCRETE .....	CONC.	TOP OF CURB .....	(TC)
CONSTRUCTION LIMITS .....	CONST. LIMITS		
CULVERT .....	CULV.		
CURB AND GUTTER .....	C&G		
DEGREE OF CURVE .....	D		
DRAINAGE AREA .....	D.A.		
DENIAL OF ACCESS .....	D/A		
DROP INLET .....	D.I.		
EDGE OF PAVEMENT .....	E.O.P.		
ELEVATION .....	ELEV. OR EL.		
EQUAL .....	EQ.		
EXTERNAL .....	E		
EXISTING .....	EXIST.		
EXISTING SLOTTED DRAIN .....	E.S.D.		
FLARED END TERMINATION .....	F.E.T.		
FLOW LINE .....	FL.		
FRAME RESIDENCE .....	FR.RES.		
GUARD RAIL .....	G.R.		
HEADWALL .....	HOWL.		
HIGH WATER .....	H.W.		
JUNCTION BOX .....	J.B.		
LENGTH OF CURVE .....	L.		
LINEAR FEET .....	L.F. OR LIN. FT.		
MAXIMUM .....	MAX.		
MINIMUM .....	MIN.		
NOT TO SCALE .....	N.T.S.		
POINT OF CURVATURE .....	P.C.		
POINT OF INTERSECTION .....	P.I.		
POINT OF TANGENCY .....	P.T.		
POINT ON CURVE .....	P.O.C.		
POINT ON TANGENT .....	P.O.T.		
POINT OF VERTICAL INTERSECTION .....	P.V.I.		
PROFILE GRADE LINE .....	P.G.L.		
PROPERTY LINE .....	P		
RADIUS .....	R.		
RAILROAD .....	R.R.		
REINFORCED CONCRETE PIPE .....	R.C.P.		
ROADWAY .....	RDWY.		
REINFORCED .....	REINF.		
REQUIRED .....	REQ'D.		
RETAIN .....	RET.		
RIGHT OF WAY .....	R/W		
SHOULDER .....	SHLD.		
SIDEWALK .....	S.W.		
SLOTTED DRAIN .....	S.D.		

## UTILITIES

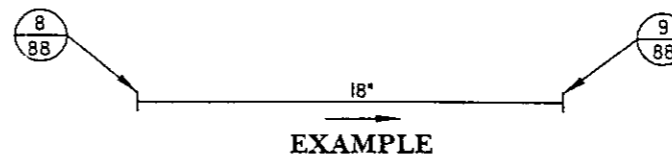
	EXISTING	PROPOSED
POWER POLE .....	■	□
LIGHT POLE .....	◆	◇
TELEPHONE POLE .....	◆	◇
ANCHOR .....	▲	△
STUB POWER .....	■	□
STUB TELEPHONE .....	◆	◇
ELECTRIC DUCT .....	EL. AMTD	EL. AMTD
DIRECT BURIAL ELECTRIC CABLE .....	BE	BE
OVERHEAD ELECTRIC CABLE .....	OE	OE
ELECTRIC MANHOLE .....	EMH	EMH
TOWER .....	⊗	⊗
TELEPHONE PEDESTAL .....	⊕	⊕
TELEPHONE DUCT .....	TP. AMTD	TP. AMTD
DIRECT BURIAL TELEPHONE CABLE .....	BT	BT
OVERHEAD TELEPHONE CABLE .....	OT	OT
TELEPHONE MANHOLE .....	TMH	TMH
SANITARY SEWER .....	SAN. SEW	SAN. SEW
STORM SEWER .....	STM	STM
SEWER MANHOLE .....	SM	SM
WATER MAIN .....	WM	WM
WATER VALVE .....	⊗	⊗
FIRE HYDRANT .....	⊙	⊙
WATER METER .....	⊠	⊠
GAS MAIN .....	GM	GM
GAS VALVE .....	⊠	⊠
GAS REGULATOR .....	⊠	⊠
DIRECT BURIAL CABLE TV .....	BTV	BTV
OVERHEAD CABLE TV .....	OTV	OTV

## ROADWAY

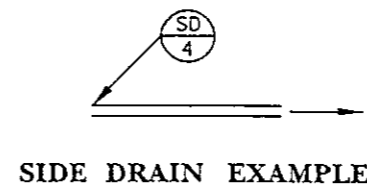
CENTER LINE .....	55
STATE BOUNDARY LINE .....	— —
COUNTY BOUNDARY LINE .....	— —
CITY LIMIT LINES .....	— —
SECTION LINES .....	SEC 22 SEC 23
QUARTER-SECTION LINES .....	— —
RANGE-TOWNSHIP LINES .....	R-17-E R-18-E
PROPERTY LINES .....	P
EXISTING R/W .....	— —
ACQUIRED R/W .....	— —
DENIED ACCESS .....	— —
REQUIRED FENCE .....	— —
CONSTRUCTION LIMITS .....	— —
RAILROAD .....	— —
WOOD FENCE .....	— —
BARBED WIRE FENCE .....	— —
TREES .....	— —
WOODS LINE .....	— —
MARSH .....	— —
STREAM .....	— —
DRAIN .....	— —
GRAVEL ROAD .....	— —
EXISTING GUARDRAIL .....	— —
REQUIRED GUARDRAIL .....	— —
EXISTING PIPE CULVERT .....	— —
EXISTING PIPE CULVERT (REMOVE) .....	— —
REQUIRED PIPE CULVERT .....	— —
EXISTING BOX CULVERT .....	— —
REQUIRED BOX CULVERT .....	— —
EXTENDED CULVERT .....	— —
DROP INLET .....	□
BRIDGE .....	— —
SELECTIVE CLEARING LIMITS .....	— —
PIPE CULVERT (ELEVATION VIEW) .....	FL=410.25
BOX CULVERT (ELEVATION VIEW) .....	FL=420.55
REQUIRED DITCH .....	— —
EXISTING DITCH .....	— —
EXISTING SIGN .....	— —
REQUIRED SIGN .....	— —
CHAIN LINK FENCE .....	— —
REQ'D. CL. 2 RIPRAP W/ FILTER BLANKET .....	— —
REMOVAL OF EXIST. ASPHALT PAVEMENT .....	— —
REMOVAL OF EXIST. CONCRETE BRIDGE .....	— —

## DRAINAGE STRUCTURE INDEX NUMBERS

DRAINAGE STRUCTURE WRITE-UPS ARE LOCATED ON THE DRAINAGE CROSS-SECTION SHEETS. STRUCTURES WITH WRITE-UPS ARE INDEXED AT EACH END, WITH NUMBERS ASSIGNED BY DIRECTION OF FLOW. THE NUMBER IN THE UPPER HALF OF THE CIRCLE (EXAMPLE 8 OR 9) IS THE DRAINAGE STRUCTURE INDEX NUMBER. THE NUMBER IN THE LOWER HALF (EXAMPLE 88) IS THE SHEET REFERENCE NUMBER. A DASHED CIRCLE REPRESENTS AN EXISTING STRUCTURE.



ALL INFORMATION CONCERNING THE DISPOSITION OF SIDE DRAIN PIPE IS SHOWN ON THE SUMMARY OF QUANTITIES BOX SHEET. THE TOP LETTERS (SD) ARE FOR SIDE DRAIN AND THE BOTTOM NUMBER IS THE DRAINAGE STRUCTURE INDEX NUMBER.

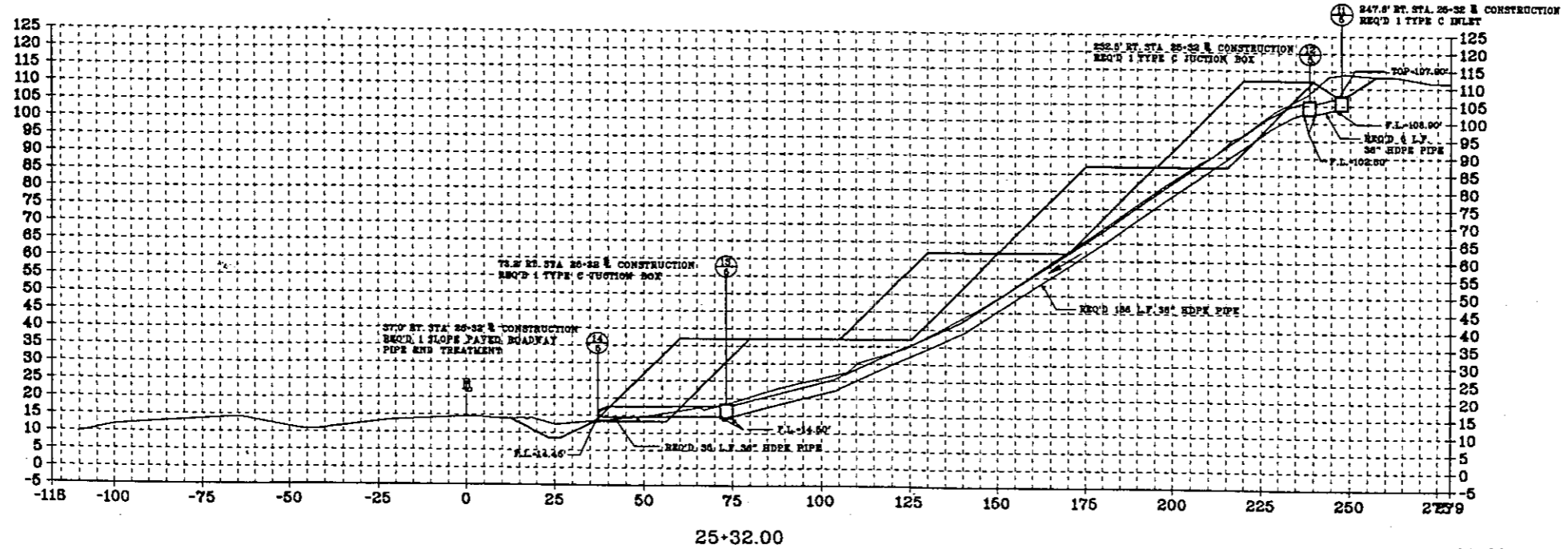
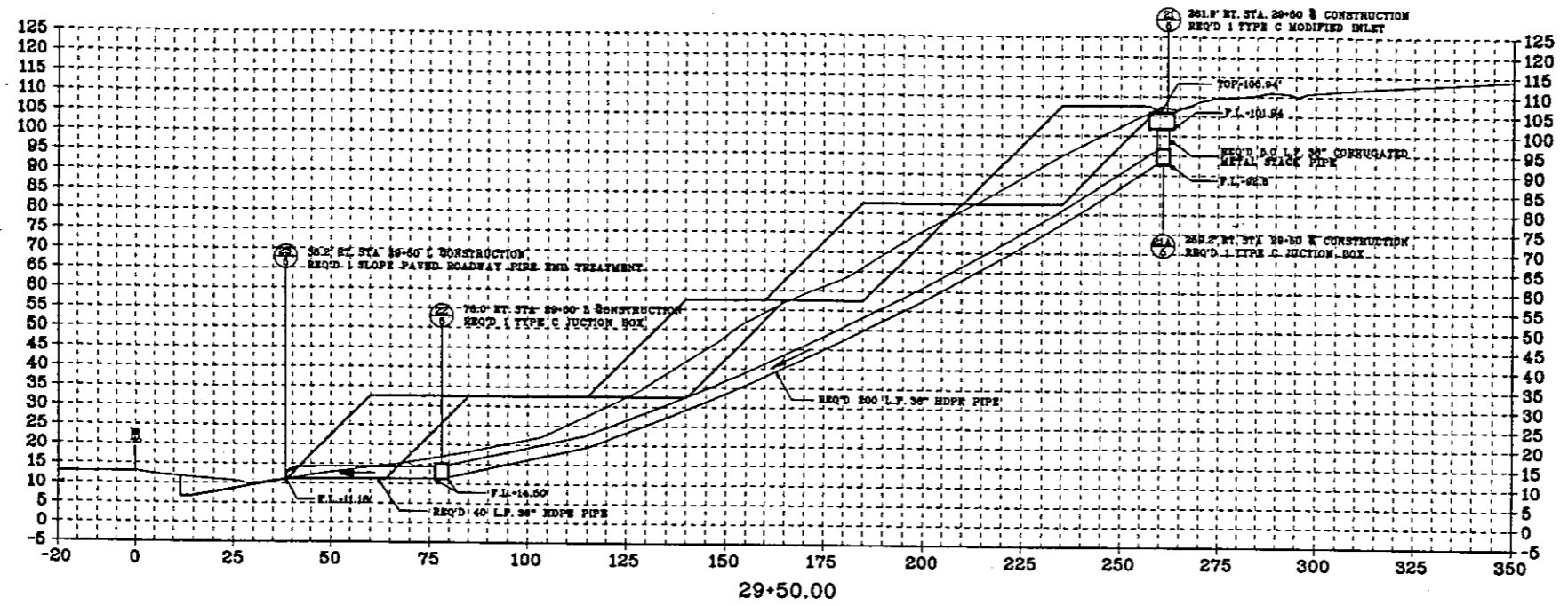


SIDE DRAIN EXAMPLE

CITY OF SPANISH FORT

PLANS LEGEND

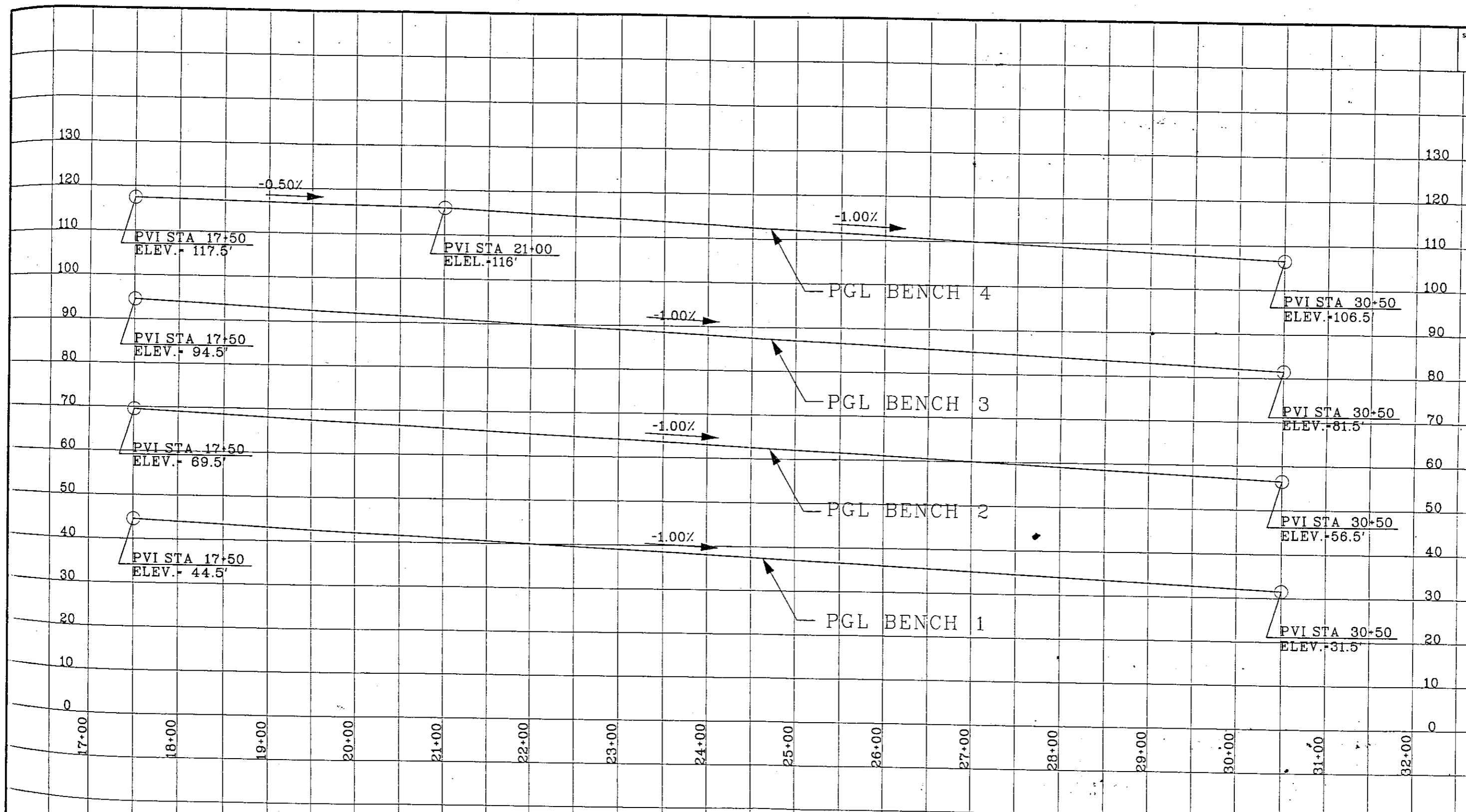
SYNERGY EARTH SYSTEMS, INC.		VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNED	DETAILED	QUANTITIES	
CHECKED	CHECKED	CHECKED	
DATE		DWG. NO.	



SCALE 1"=20' HOR.  
1"=20' VER.

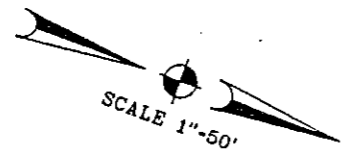
CITY OF SPANISH FORT		
DRAINAGE SECTIONS		
SYNERGY EARTH SYSTEMS, INC.		VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS
DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG. NO.

PROJECT: 2007-0000-0000-0000  
 SHEET NO.: 10 OF 26  
 DATE: 08/14/07

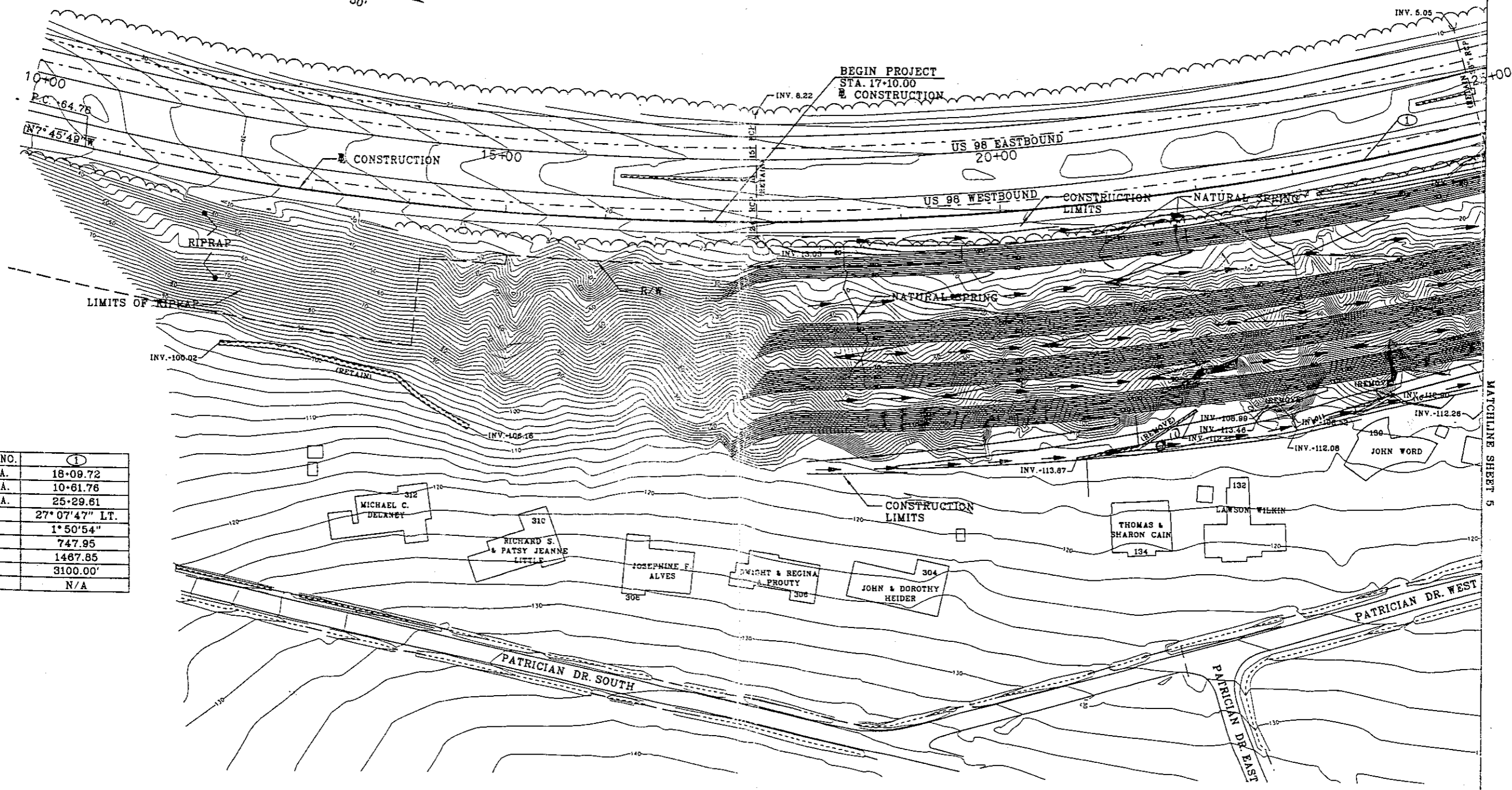


SCALE: 1"=100' HOR.  
1"=20' VER.

CITY OF SPANISH FORT		
BENCH PROFILE		
DESIGNED	SYNERGY EARTH SYSTEMS, INC.	VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS
CHECKED	DATE	QUANTITIES CHECKED
REVISIONS	DATE	DWG. NO.



CURVE NO.	①
P.I. STA.	18+09.72
P.T. STA.	10+61.76
P.T. STA.	25+29.61
Δ	27° 07' 47" LT.
D	1° 50' 54"
T	747.95
L	1467.85
R	3100.00'
"e"	N/A



CITY OF SPANISH FORT		
PLAN SHEET STA. 10+00 TO STA. 25+00		
SYNERGY EARTH SYSTEMS, INC.		VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS
DESIGNED	DETAILED	QUANTITIES
CHECKED	CHECKED	CHECKED
DATE		DWG. NO.

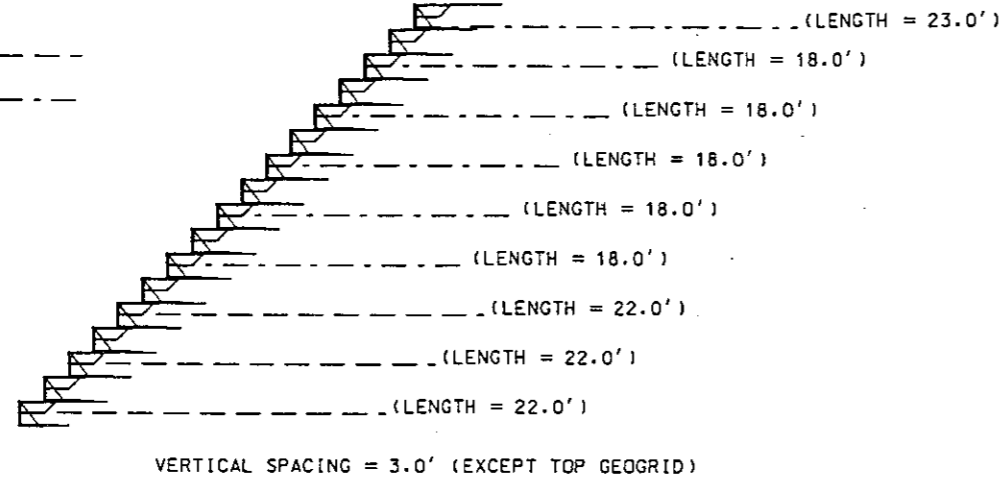
MATCHLINE SHEET 5



PRIMARY REINFORCING DETAIL

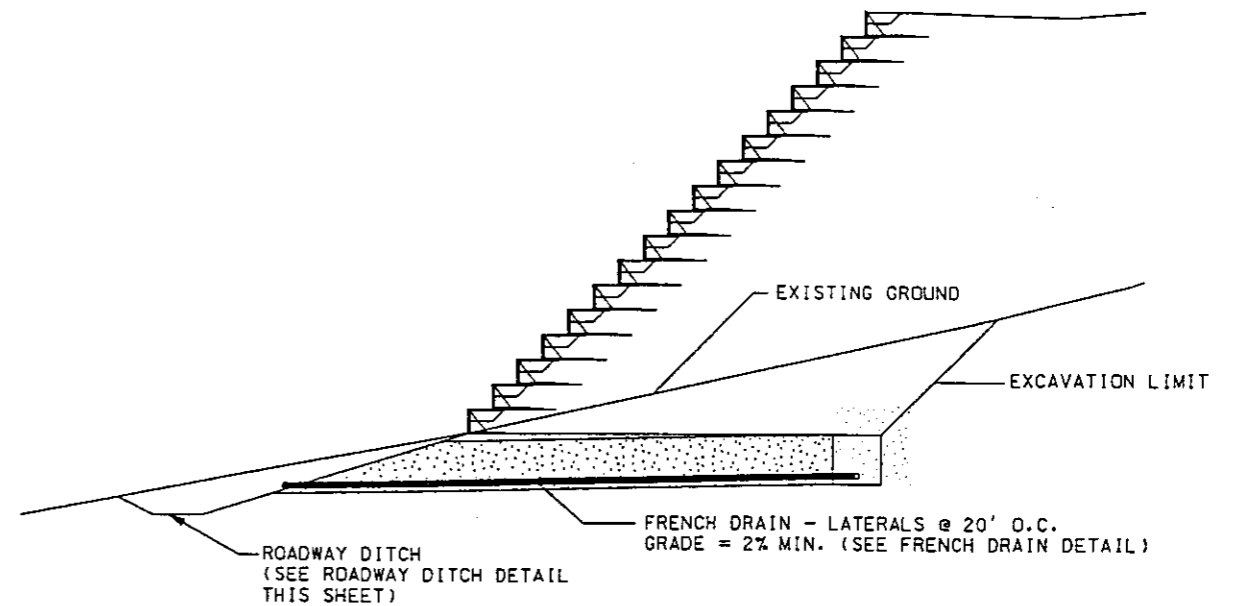
(ALL BENCHES)  
N.T.S.

KEY  
 TYPE 1 GEOGRID  
 TYPE 2 GEOGRID



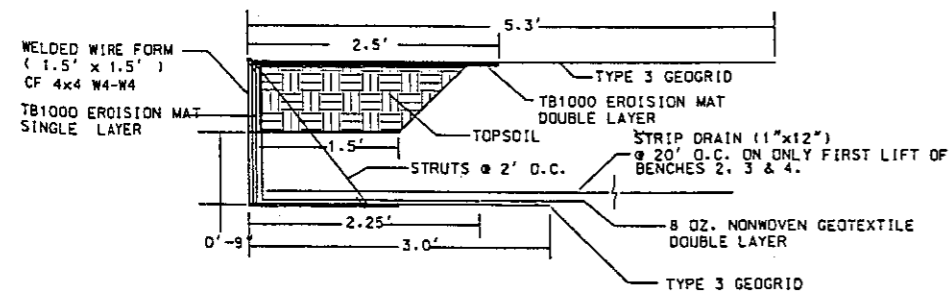
TYPICAL SECTION - BENCH NO. 1

N.T.S.



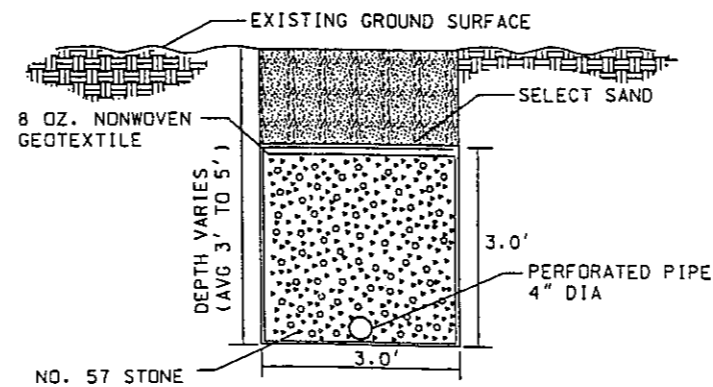
WRAPPED FACE DETAIL

N.T.S.



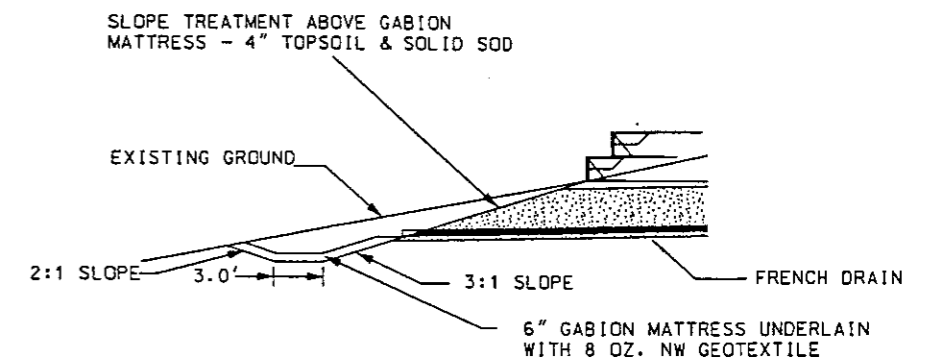
FRENCH DRAIN DETAIL

N.T.S.



ROADWAY DITCH DETAIL

N.T.S.

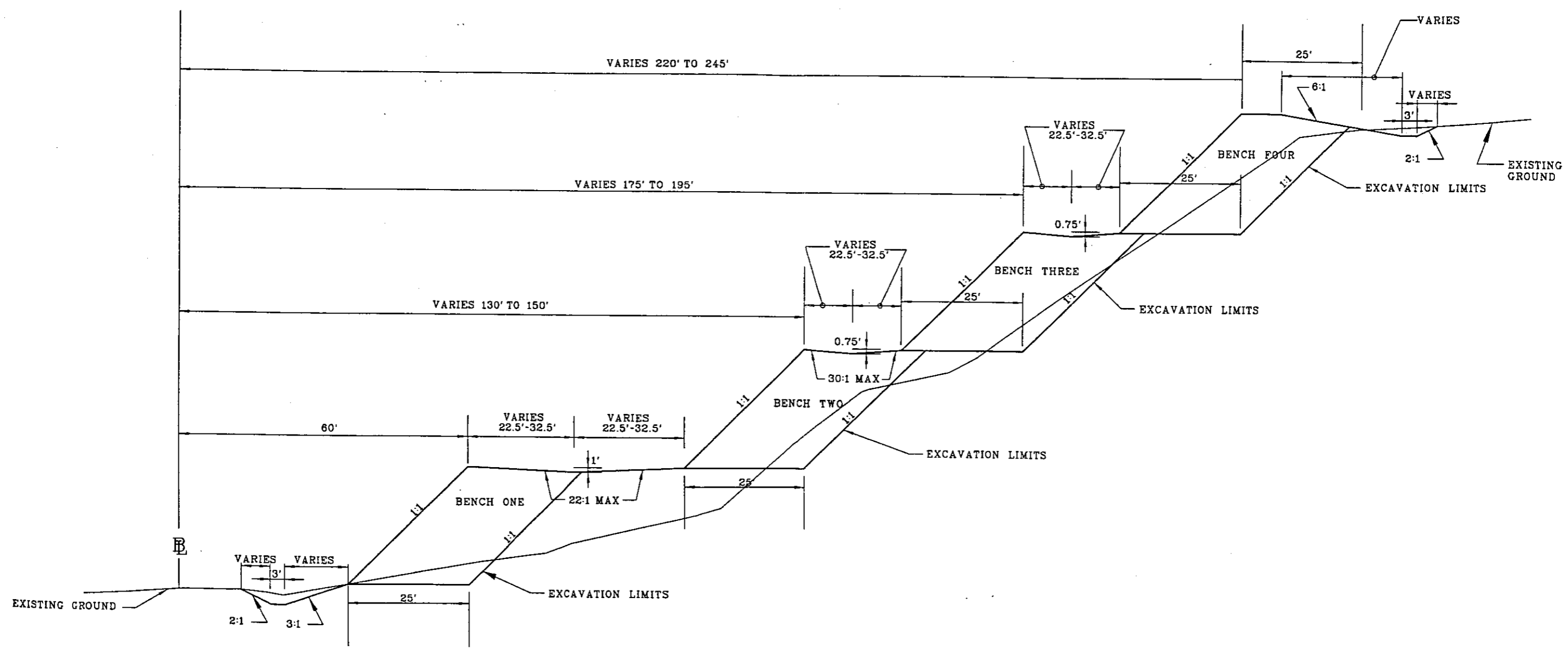


CITY OF SPANISH FORT

MISCELLANEOUS DETAILS

SYNERGY EARTH SYSTEMS, INC.		VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNED	Detailed	QUANTITIES	
CHECKED	CHECKED	CHECKED	
DATE		DWG. NO.	

REVISIONS



TYPICAL SECTION  
 STA. 17+10.00 TO STA. 32+23.78

CITY OF SPANISH FORT		
TYPICAL SECTIONS		
DESIGNED	SYNERGY EARTH SYSTEMS, INC.	VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS
CHECKED	DATE	QUANTITIES CHECKED
REVISIONS	DATE	DWG. NO.

# PLANS LEGEND

SHEET NO.	TOTAL SHEETS
1A	26

## ABBREVIATIONS

ACRE .....	AC.	SQUARE FEET .....	S.F. OR SQ. FT.
AHEAD .....	AH.	SQUARE YARD .....	S.Y. OR SQ. YD.
ALTERNATE .....	ALT.	STANDARD DRAWING .....	STD. DWG.
ACQUIRED .....	ACQ'D.	STATION .....	STA.
ASPHALT .....	ASP.	STEEL .....	STL.
BACK .....	BK.	STRUCTURE .....	STR.
BARREL .....	BBL.	SUPERELEVATION .....	S.E. OR 'e'
BASELINE .....	℄	TANGENT .....	T.
BENCH MARK .....	B.M.	TRANSITIONAL END SECTION .....	T.E.S.
BRICK RESIDENCE .....	BR.RES.	TURNOUT .....	T.O.
BRIDGE .....	BR.	TYPICAL .....	TYP.
BUILDING .....	BLDG.	VERTICAL CLEARANCE .....	VERT. CL.
CENTERLINE .....	℄	VERTICAL CURVE LENGTH .....	V.C.
CONCRETE .....	CONC.	TOP OF CURB .....	(TC)
CONSTRUCTION LIMITS .....	CONST. LIMITS		
CULVERT .....	CULV.		
CURB AND GUTTER .....	C&G		
DEGREE OF CURVE .....	D		
DRAINAGE AREA .....	D.A.		
DENIAL OF ACCESS .....	D/A		
DROP INLET .....	D.I.		
EDGE OF PAVEMENT .....	E.O.P.		
ELEVATION .....	ELEV. OR EL.		
EQUAL .....	EQ.		
EXTERNAL .....	E		
EXISTING .....	EXIST.		
EXISTING SLOTTED DRAIN .....	E.S.D.		
FLARED END TERMINATION .....	F.E.T.		
FLOW LINE .....	FL.		
FRAME RESIDENCE .....	FR.RES.		
GUARD RAIL .....	G.R.		
HEADWALL .....	HOWL.		
HIGH WATER .....	H.W.		
JUNCTION BOX .....	J.B.		
LENGTH OF CURVE .....	L.		
LINEAR FEET .....	L.F. OR LIN. FT.		
MAXIMUM .....	MAX.		
MINIMUM .....	MIN.		
NOT TO SCALE .....	N.T.S.		
POINT OF CURVATURE .....	P.C.		
POINT OF INTERSECTION .....	P.I.		
POINT OF TANGENCY .....	P.T.		
POINT ON CURVE .....	P.O.C.		
POINT ON TANGENT .....	P.O.T.		
POINT OF VERTICAL INTERSECTION .....	P.V.I.		
PROFILE GRADE LINE .....	P.G.L.		
PROPERTY LINE .....	℄		
RADIUS .....	R.		
RAILROAD .....	R.R.		
REINFORCED CONCRETE PIPE .....	R.C.P.		
ROADWAY .....	RDWY.		
REINFORCED .....	REINF.		
REQUIRED .....	REQ'D.		
RETAIN .....	RET.		
RIGHT OF WAY .....	R/W		
SHOULDER .....	SHLD.		
SIDEWALK .....	S.W.		
SLOTTED DRAIN .....	S.D.		

## UTILITIES

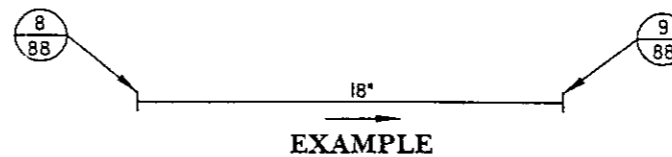
	EXISTING	PROPOSED
POWER POLE .....	■	□
LIGHT POLE .....	◆	⊕
TELEPHONE POLE .....	◆	⊕
ANCHOR .....	▲	△
STUB POWER .....	■	□
STUB TELEPHONE .....	◆	⊕
ELECTRIC DUCT .....	EL. AMTD	EL. AMTD
DIRECT BURIAL ELECTRIC CABLE .....	BE	BE
OVERHEAD ELECTRIC CABLE .....	OE	OE
ELECTRIC MANHOLE .....	EMH	EMH
TOWER .....	⊗	⊗
TELEPHONE PEDESTAL .....	⊕	⊕
TELEPHONE DUCT .....	TP. AMTD	TP. AMTD
DIRECT BURIAL TELEPHONE CABLE .....	BT	BT
OVERHEAD TELEPHONE CABLE .....	OT	OT
TELEPHONE MANHOLE .....	TMH	TMH
SANITARY SEWER .....	SAN. SEW	SAN. SEW
STORM SEWER .....	STM	STM
SEWER MANHOLE .....	SM	SM
WATER MAIN .....	WM	WM
WATER VALVE .....	⊗	⊗
FIRE HYDRANT .....	⊕	⊕
WATER METER .....	⊗	⊗
GAS MAIN .....	GM	GM
GAS VALVE .....	⊗	⊗
GAS REGULATOR .....	⊕	⊕
DIRECT BURIAL CABLE TV .....	BTV	BTV
OVERHEAD CABLE TV .....	OTV	OTV

## ROADWAY

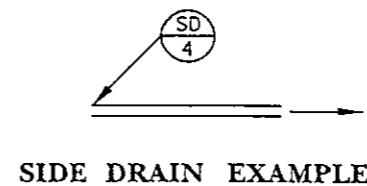
CENTER LINE .....	55
STATE BOUNDARY LINE .....	— — — — —
COUNTY BOUNDARY LINE .....	— — — — —
CITY LIMIT LINES .....	▨ ▨ ▨ ▨ ▨
SECTION LINES .....	SEC 22 SEC 23
QUARTER-SECTION LINES .....	1/4-17-6 1/4-18-6
RANGE-TOWNSHIP LINES .....	— — — — —
PROPERTY LINES .....	℄
EXISTING R/W .....	— — — — —
ACQUIRED R/W .....	— — — — —
DENIED ACCESS .....	— — — — —
REQUIRED FENCE .....	— x — x —
CONSTRUCTION LIMITS .....	— — — — —
RAILROAD .....	— — — — —
WOOD FENCE .....	— — — — —
BARBED WIRE FENCE .....	— x — x —
TREES .....	⊙ ⊙ ⊙
WOODS LINE .....	— — — — —
MARSH .....	* * * * *
STREAM .....	— — — — —
DRAIN .....	— — — — —
GRAVEL ROAD .....	— — — — —
EXISTING GUARDRAIL .....	— — — — —
REQUIRED GUARDRAIL .....	— — — — —
EXISTING PIPE CULVERT .....	— — — — —
EXISTING PIPE CULVERT (REMOVE) .....	-x-x-x-x-
REQUIRED PIPE CULVERT .....	— — — — —
EXISTING BOX CULVERT .....	— — — — —
REQUIRED BOX CULVERT .....	— — — — —
EXTENDED CULVERT .....	— — — — —
DROP INLET .....	□
BRIDGE .....	— — — — —
SELECTIVE CLEARING LIMITS .....	-x-x-x-
PIPE CULVERT (ELEVATION VIEW) .....	FL=410.25
BOX CULVERT (ELEVATION VIEW) .....	FL=420.55
REQUIRED DITCH .....	— — — — —
EXISTING DITCH .....	— — — — —
EXISTING SIGN .....	⊕
REQUIRED SIGN .....	⊕
CHAIN LINK FENCE .....	— — — — —
REQ'D. CL. 2 RIPRAP W/ FILTER BLANKET .....	▨
REMOVAL OF EXIST. ASPHALT PAVEMENT .....	▨
REMOVAL OF EXIST. CONCRETE BRIDGE .....	▨

## DRAINAGE STRUCTURE INDEX NUMBERS

DRAINAGE STRUCTURE WRITE-UPS ARE LOCATED ON THE DRAINAGE CROSS-SECTION SHEETS. STRUCTURES WITH WRITE-UPS ARE INDEXED AT EACH END, WITH NUMBERS ASSIGNED BY DIRECTION OF FLOW. THE NUMBER IN THE UPPER HALF OF THE CIRCLE (EXAMPLE 8 OR 9) IS THE DRAINAGE STRUCTURE INDEX NUMBER. THE NUMBER IN THE LOWER HALF (EXAMPLE 88) IS THE SHEET REFERENCE NUMBER. A DASHED CIRCLE REPRESENTS AN EXISTING STRUCTURE.



ALL INFORMATION CONCERNING THE DISPOSITION OF SIDE DRAIN PIPE IS SHOWN ON THE SUMMARY OF QUANTITIES BOX SHEET. THE TOP LETTERS (SD) ARE FOR SIDE DRAIN AND THE BOTTOM NUMBER IS THE DRAINAGE STRUCTURE INDEX NUMBER.



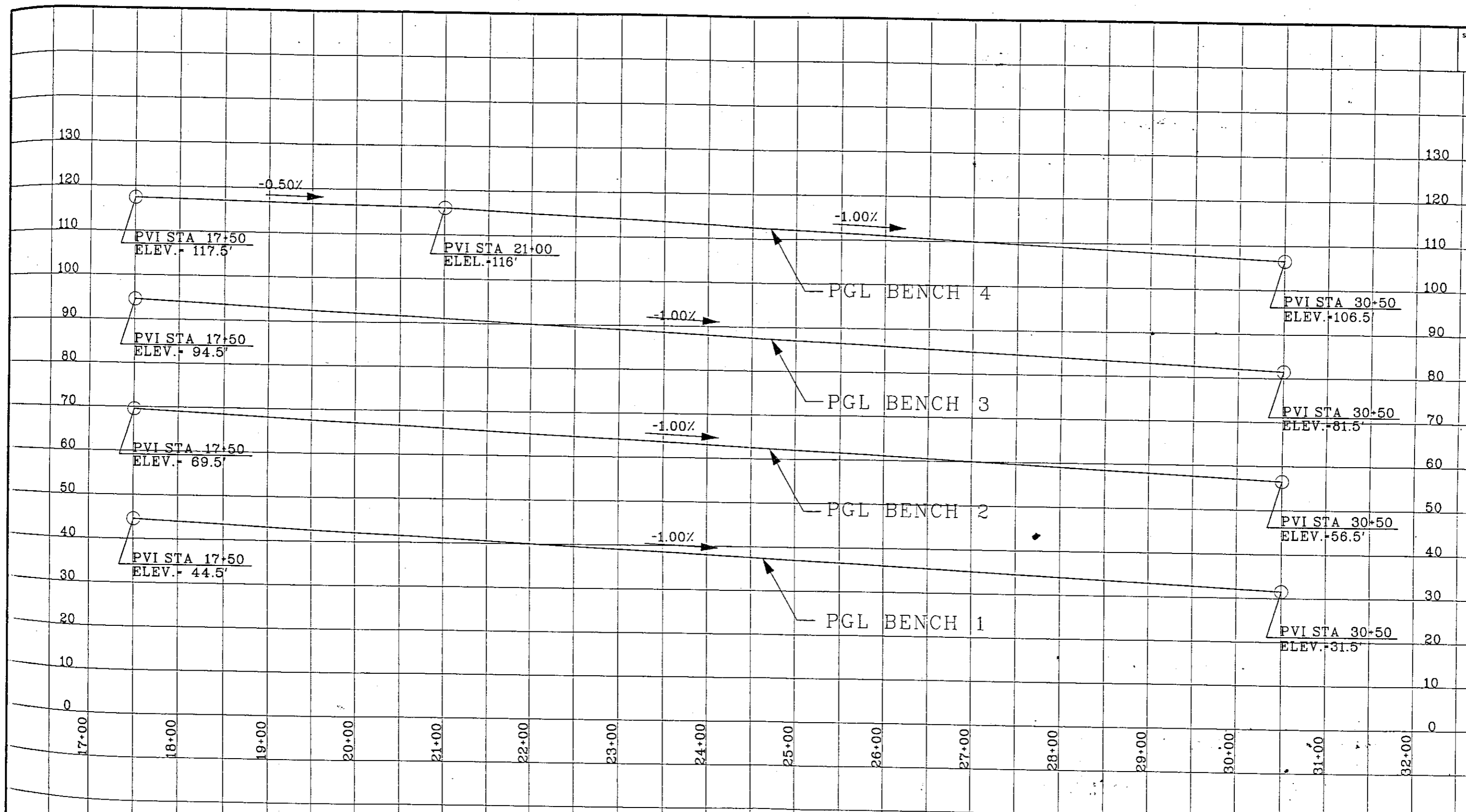
SIDE DRAIN EXAMPLE

CITY OF SPANISH FORT

PLANS LEGEND

SYNERGY EARTH SYSTEMS, INC.		VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS	
DESIGNED	DETAILED	QUANTITIES	
CHECKED	CHECKED	CHECKED	
DATE		DWG. NO.	





SCALE: 1"=100' HOR.  
1"=20' VER.

CITY OF SPANISH FORT		
BENCH PROFILE		
DESIGNED	SYNERGY EARTH SYSTEMS, INC.	VOLKERT & ASSOCIATES, INC. CONSULTING ENGINEERS
CHECKED	DATE	QUANTITIES CHECKED
REVISIONS	DATE	DWG. NO.