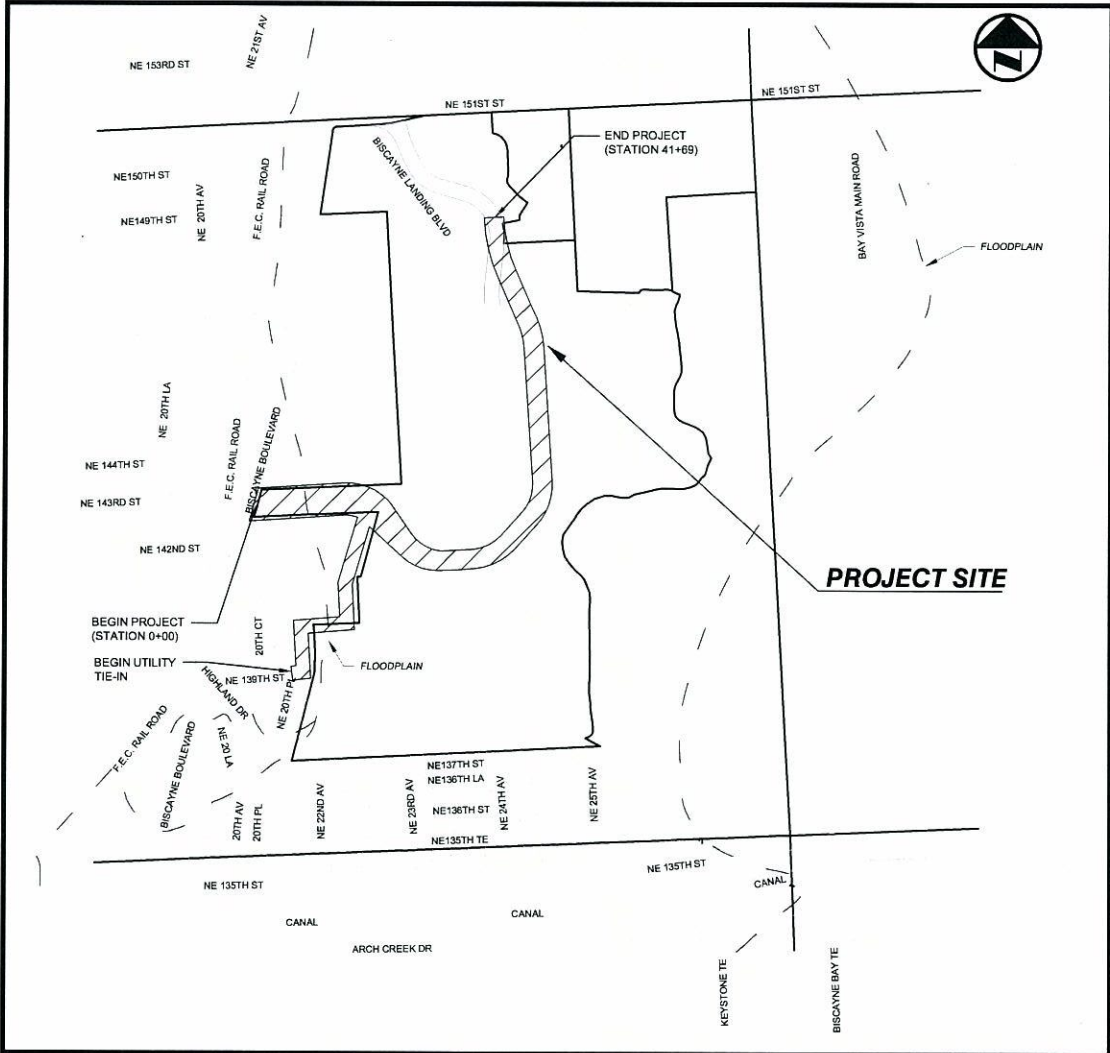


BISCAYNE LANDING BOULEVARD EXTENSION
ROADWAY IMPROVEMENT PLANS
FDEP CLOSURE PERMIT 0219514-001-SF MODIFICATION NO. 10
CITY OF NORTH MIAMI, FLORIDA



LOCATION MAP
NOT TO SCALE

INDEX OF DRAWINGS

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C-3	SITE PLAN - PERMIT MODIFICATION NO.10
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ENV-1	GAS MANAGEMENT_PLAN
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ENV-3	GAS MANAGEMENT_DETAILS
ENV-4	GAS MANAGEMENT_DETAILS

PREPARED BY:

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OCTOBER 11, 2013

USEN: 00-102327
K:\001\BISCAYNE\BISCAYNE LANDING\2013\Drawings\ENV\ 6-2 CONCEPTUAL SITE DEVELOPMENT PLAN.dwg 12/10/2013 10:02:18 PM



OLETA PARTNERS



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DEVELOPMENT PLAN

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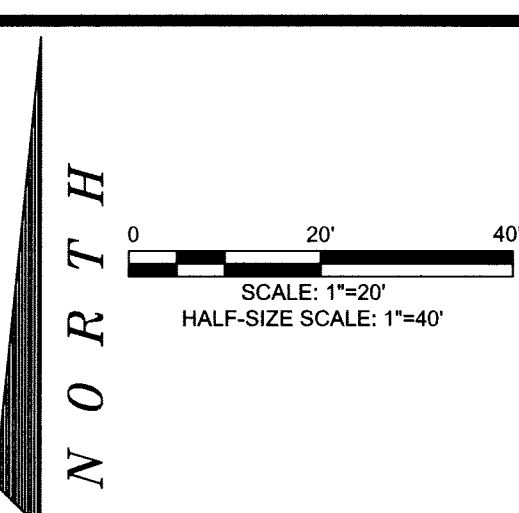
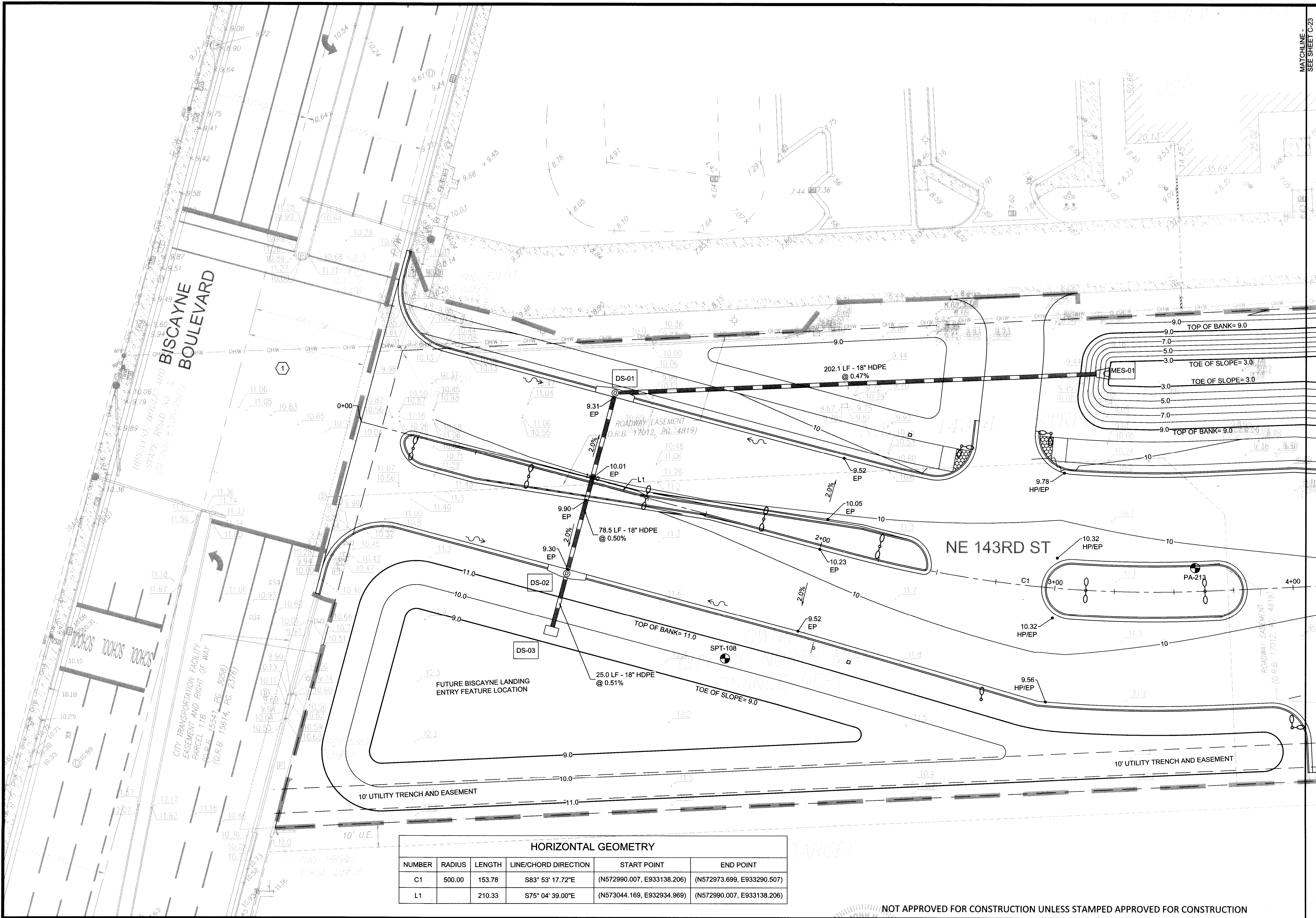
DAVID C. DEANS
David C. Deans
Signature
Date 12/10/13

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SHEET TITLE **CONCEPTUAL SITE DEVELOPMENT PLAN**

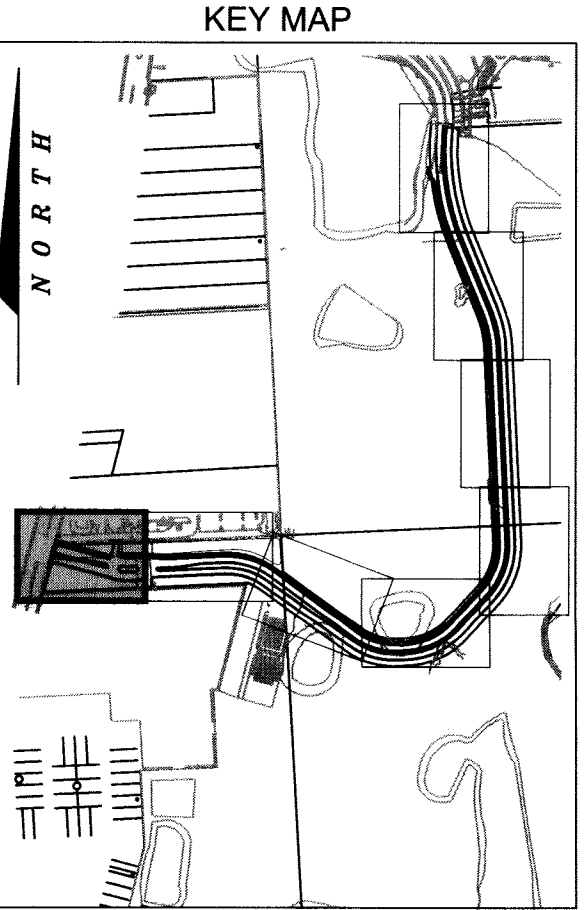
SHEET
C-2

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SHEET KEYNOTES

1. SEE SEPARATE CONSTRUCTION PLANS FOR INTERSECTION AND SIGNALIZATION IMPROVEMENTS



HORIZONTAL GEOMETRY					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT	END POINT
C1	500.00	153.78	S83° 53' 17.72"E	(N572990.007, E933138.206)	(N572973.699, E933290.507)
L1		210.33	S75° 04' 39.00"E	(N573044.169, E932934.969)	(N572990.007, E933138.206)

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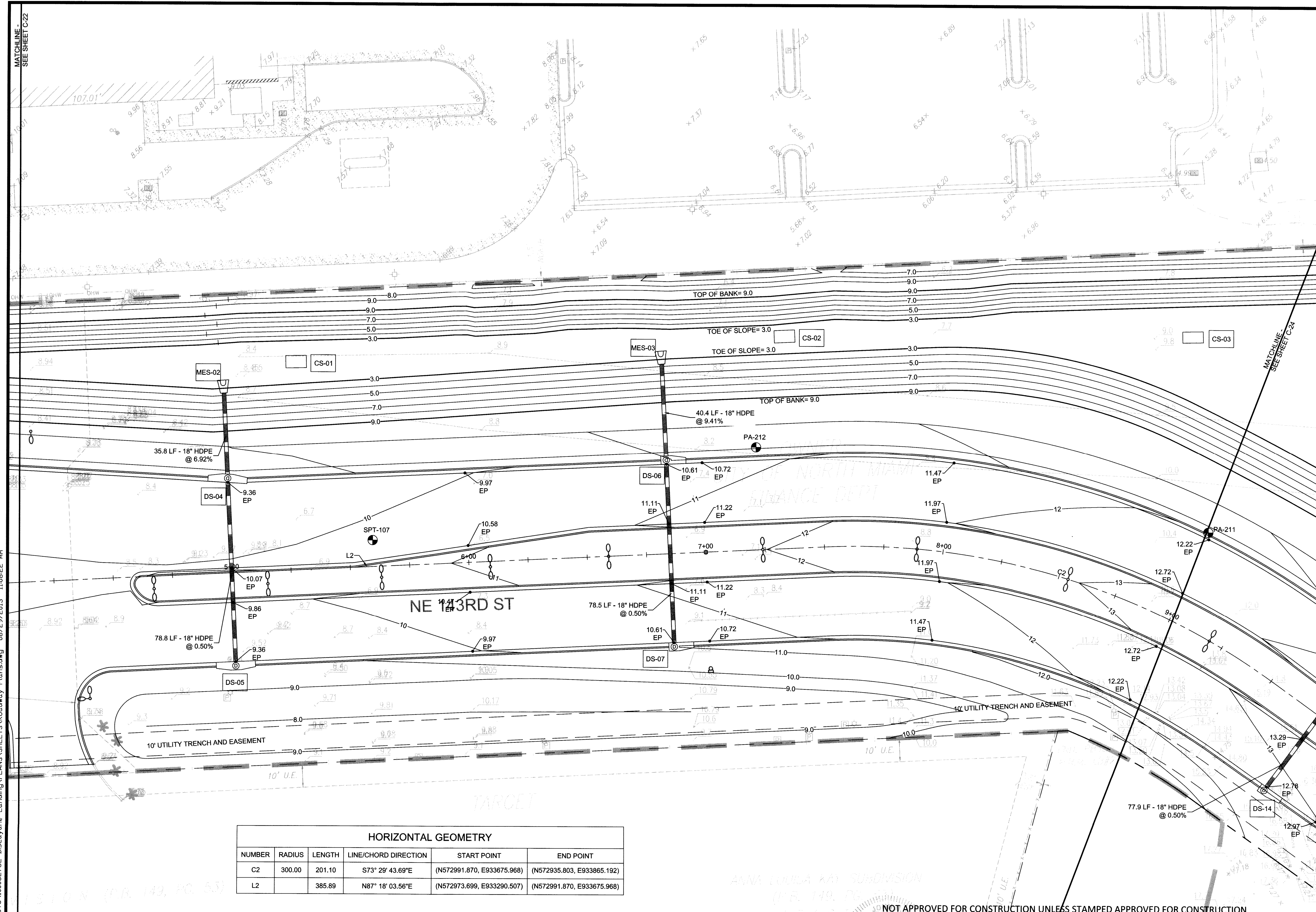
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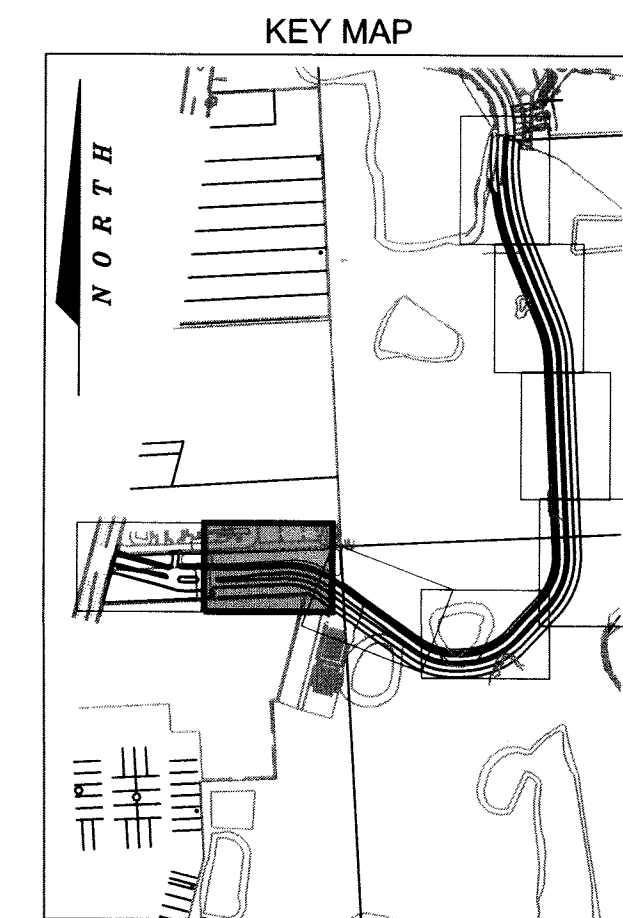
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JOB NO. 100032762
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SHEET TITLE **ROADWAY PLAN**

SHEET
C-22



 SHEET KEYNOTES



HORIZONTAL GEOMETRY					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT	END POINT
C2	300.00	201.10	S73° 29' 43.69"E	(N572991.870, E933675.968)	(N572935.803, E933865.192)
L2		385.89	N87° 18' 03.56"E	(N572973.699, E933290.507)	(N572991.870, E933675.968)

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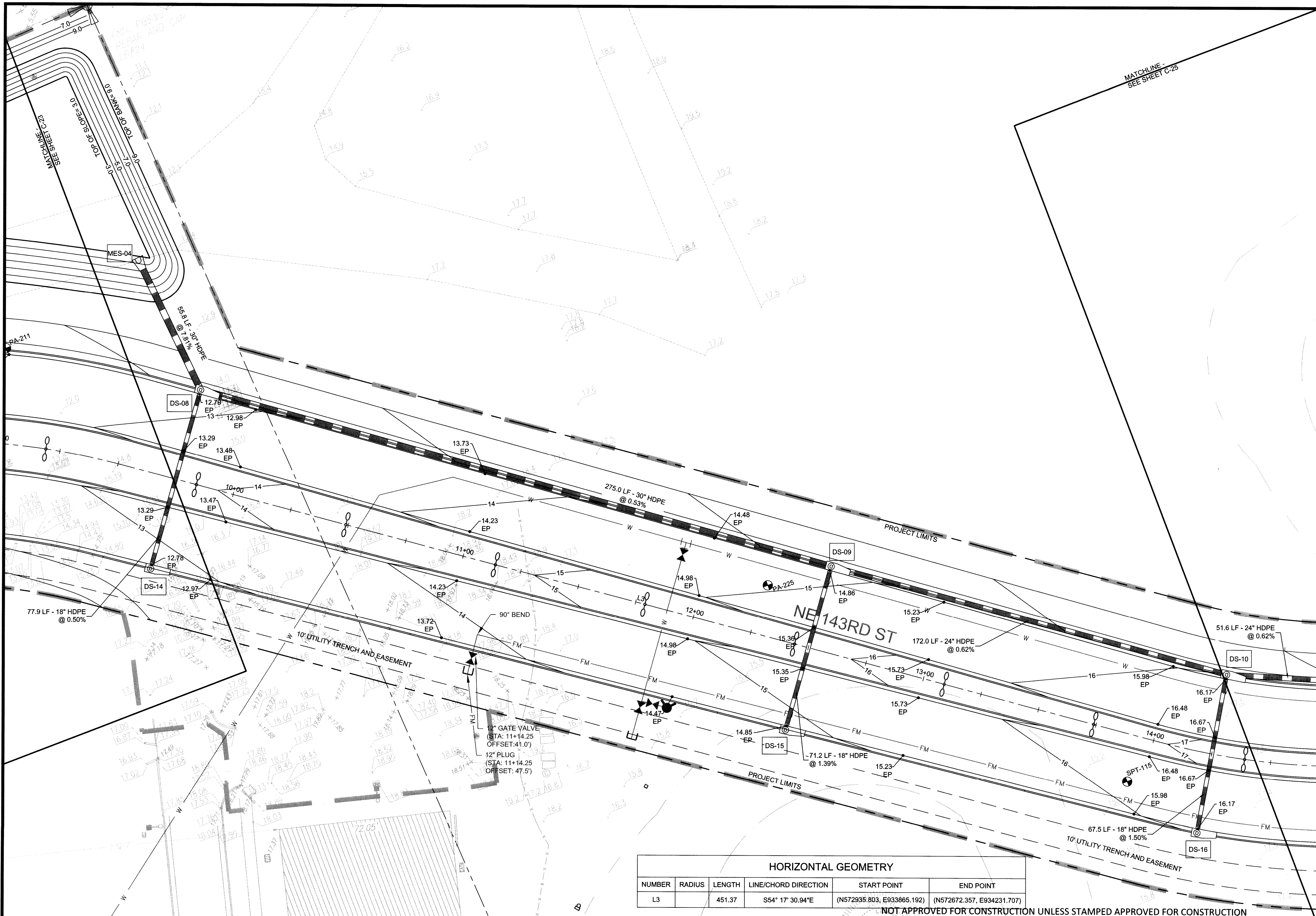
JOHN D. WILT P.E. NO. 53233
Signature _____ Date 6-23-13

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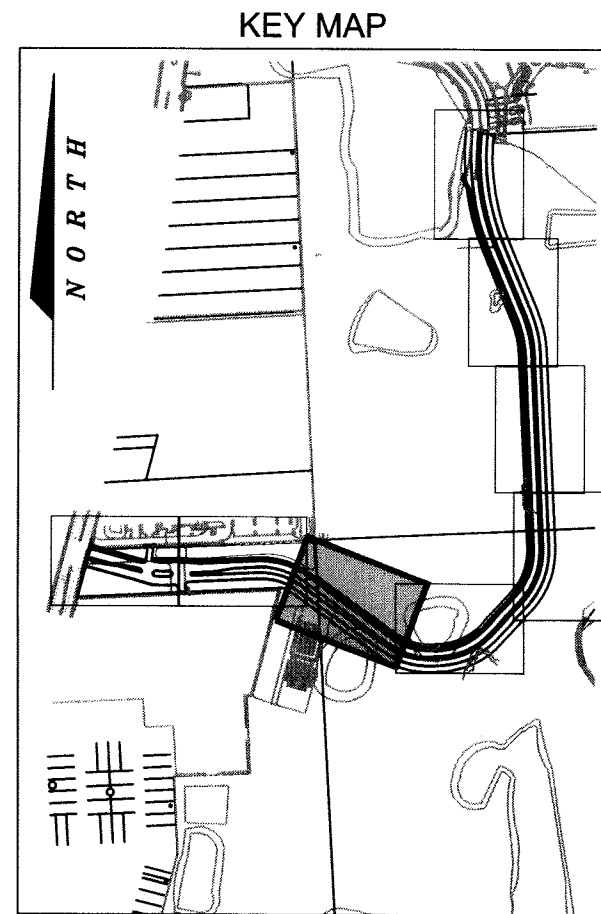
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SHEET TITLE	ROADWAY PLAN

SHEET
C-23

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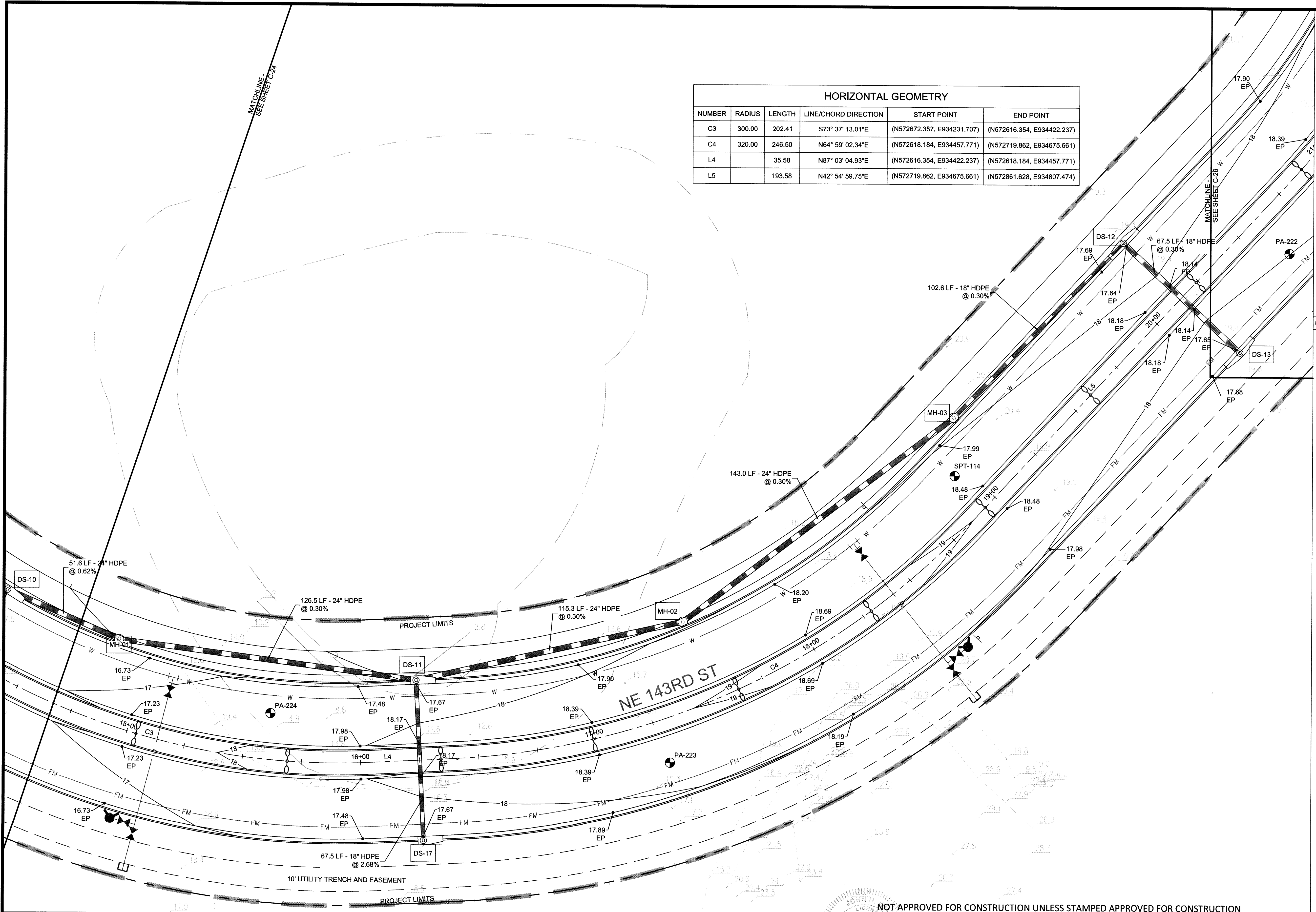
JOHN H. WILT, P.E., NO. 53233
Signature: [Signature] Date: 10-28-13
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SHEET TITLE **ROADWAY PLAN**

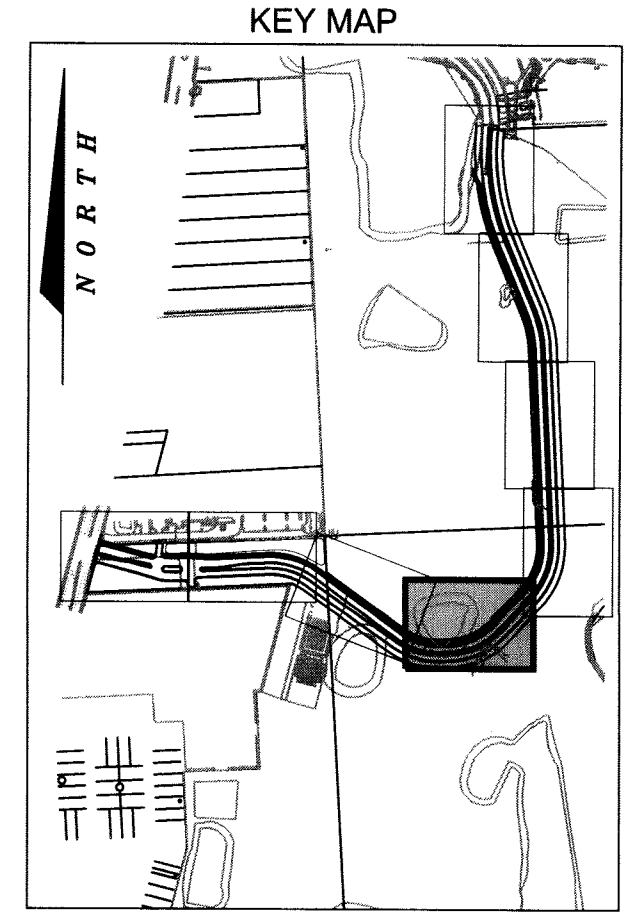
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HORIZONTAL GEOMETRY					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT	END POINT
C3	300.00	202.41	S73° 37' 13.01"E	(N572672.357, E934231.707)	(N572616.354, E934422.237)
C4	320.00	246.50	N64° 59' 02.34"E	(N572618.184, E934457.771)	(N572719.862, E934675.661)
L4		35.58	N87° 03' 04.93"E	(N572616.354, E934422.237)	(N572618.184, E934457.771)
L5		193.58	N42° 54' 59.75"E	(N572719.862, E934675.661)	(N572861.628, E934807.474)

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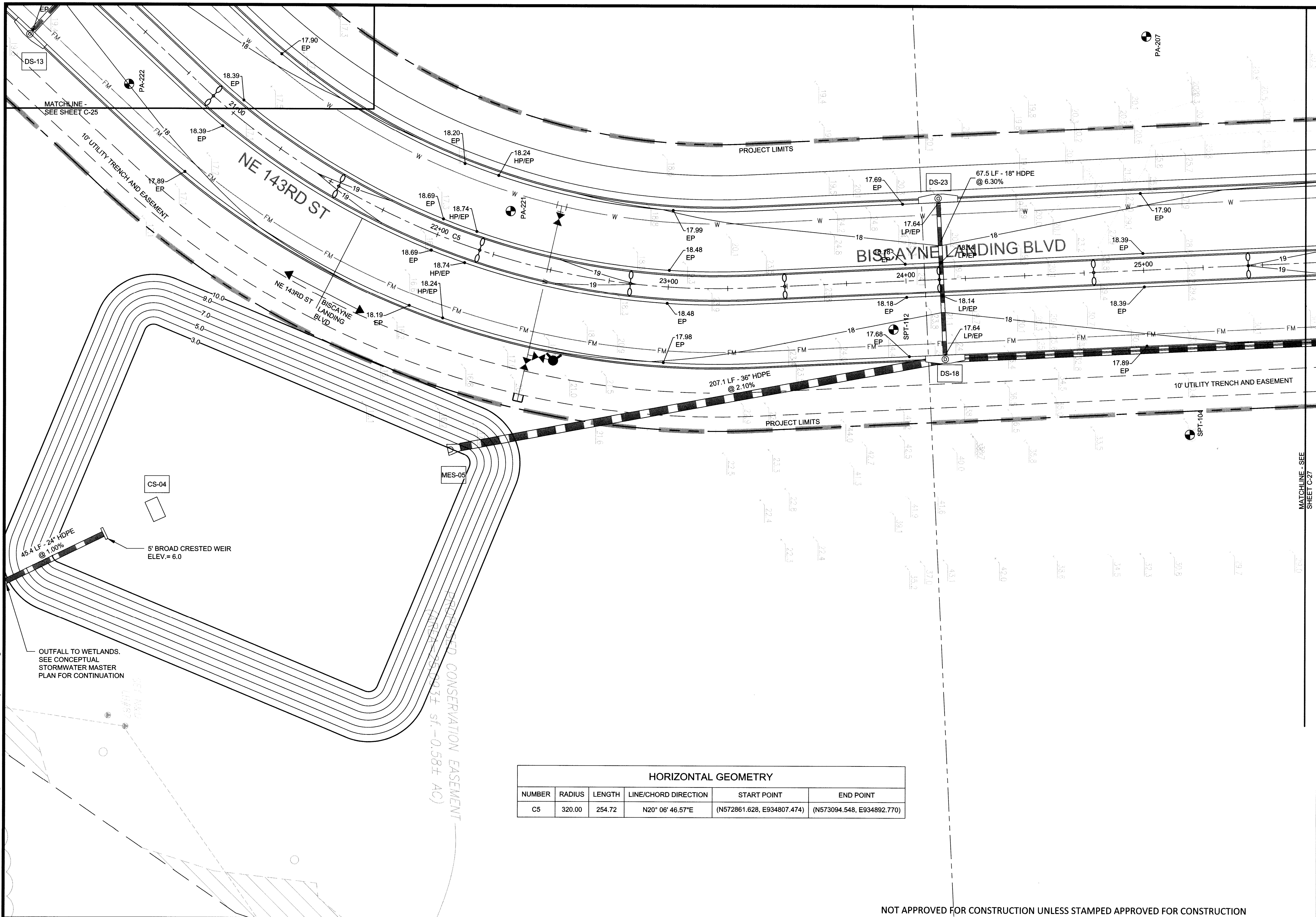
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PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **ROADWAY PLAN**

SHEET
C-25



N O R T H

0 20' 40'

SCALE: 1"=20'

HALF-SIZE SCALE: 1"=40'

SHEET KEYNOTES

KEY MAP

HORIZONTAL GEOMETRY					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT	END POINT
C5	320.00	254.72	N20° 06' 46.57"E	(N572861.628, E934807.474)	(N573094.548, E934892.770)

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PROJECT: **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE: **ROADWAY PLAN**

SHEET
C-26

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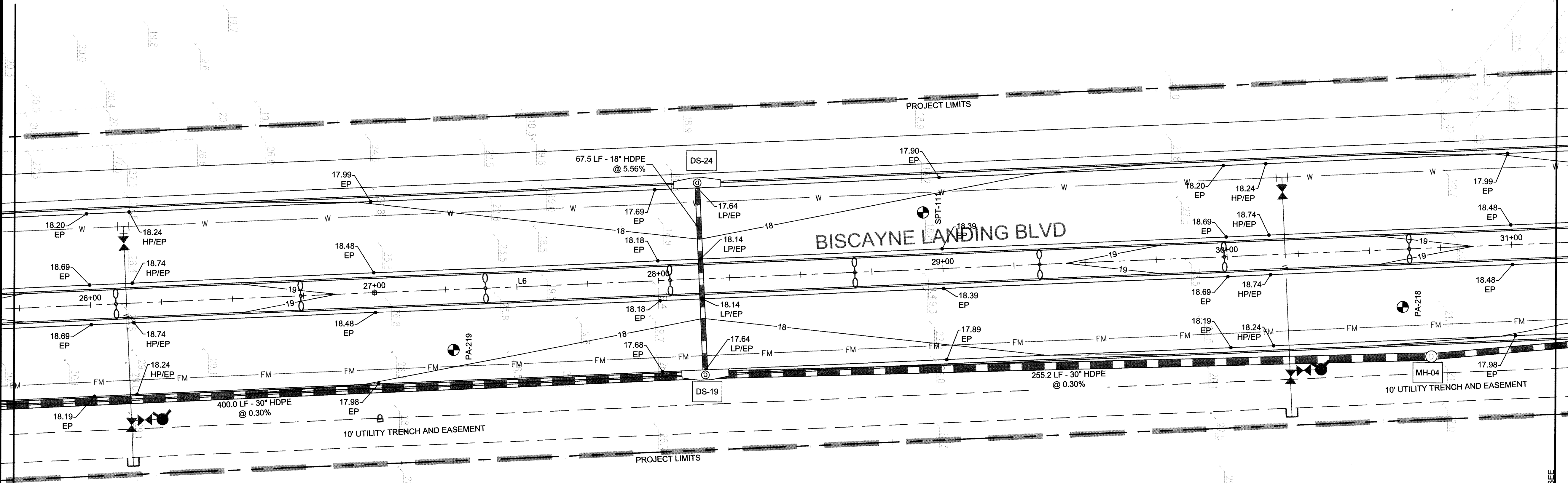
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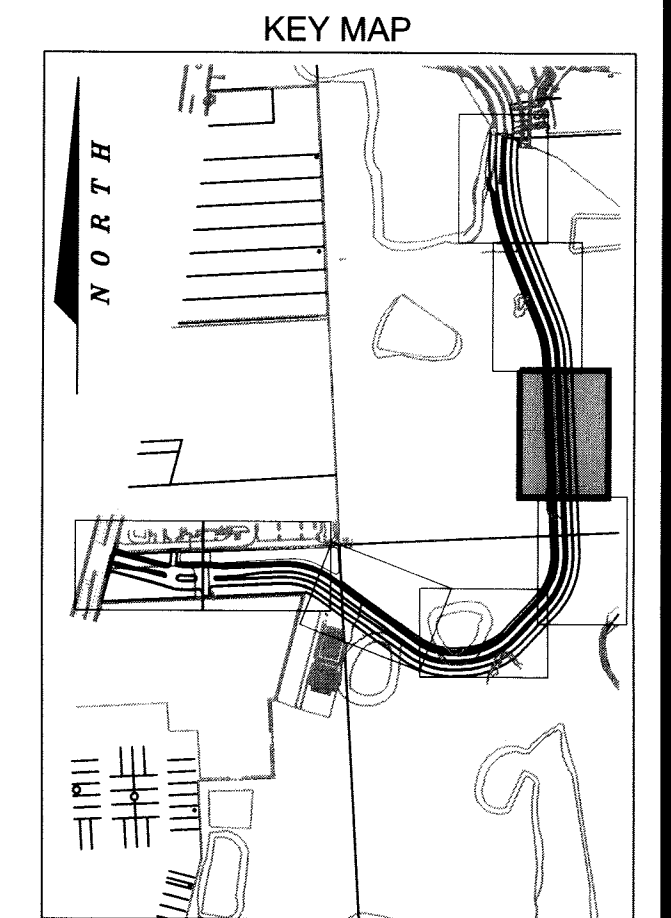
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SHEET TITLE **ROADWAY PLAN**

SHEET
C-27



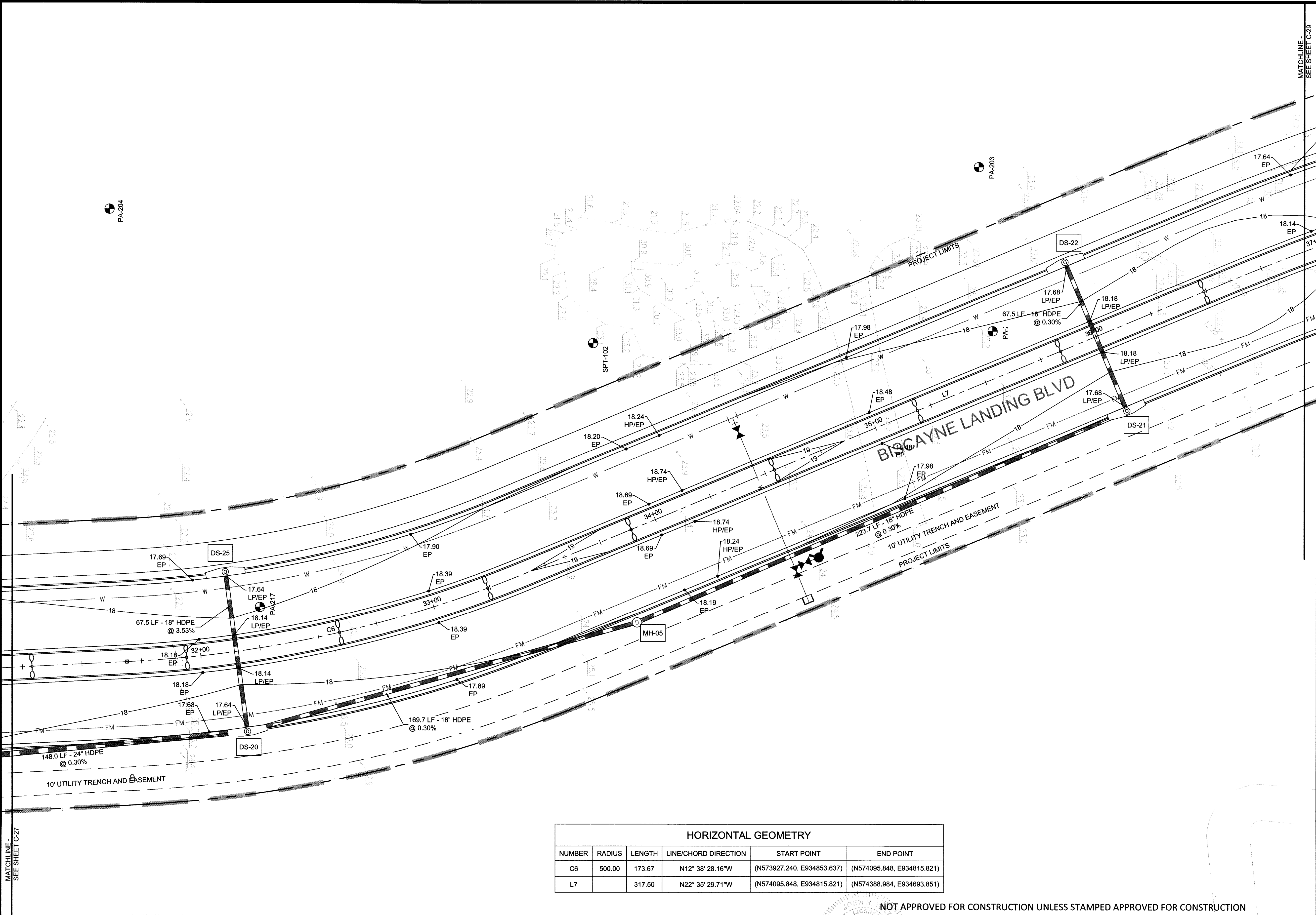
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SCALE: 1"=20'
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N O R T H

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SCALE: 1"=20'

HALF-SIZE SCALE: 1"=40'

SHEET KEYNOTES

KEY MAP

HORIZONTAL GEOMETRY					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT	END POINT
C6	500.00	173.67	N12° 38' 28.16"W	(N573927.240, E934853.637)	(N574095.848, E934815.821)
L7		317.50	N22° 35' 29.71"W	(N574095.848, E934815.821)	(N574388.984, E934693.851)

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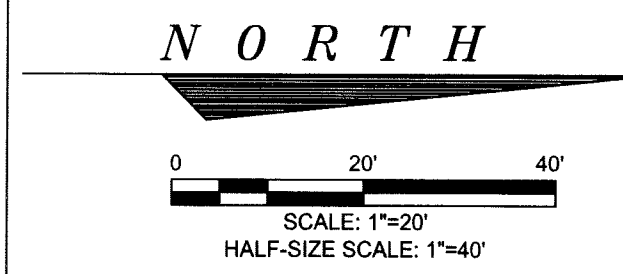
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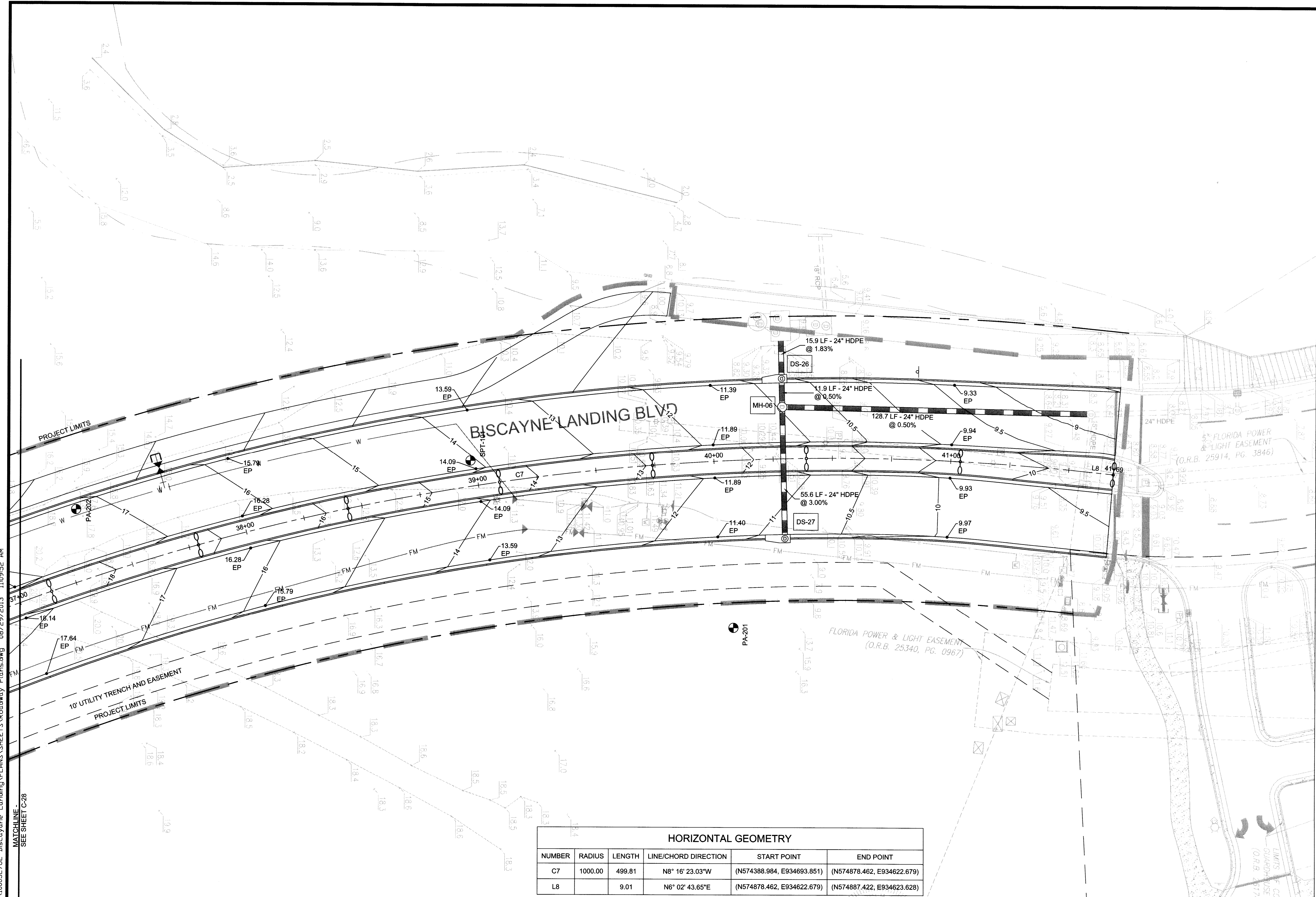
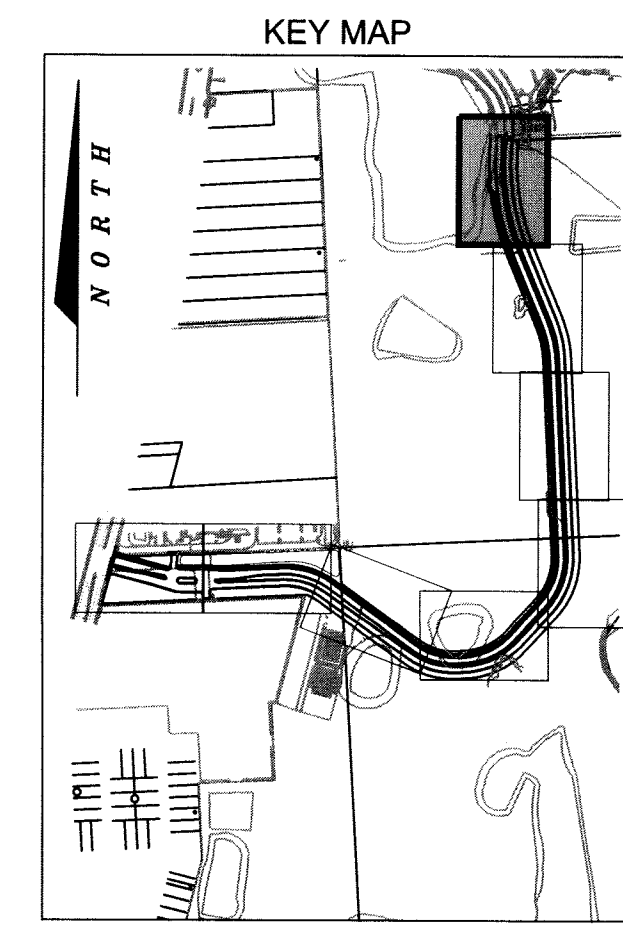
PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**

SHEET TITLE **ROADWAY PLAN**

SHEET
C-28



SHEET KEYNOTES



HORIZONTAL GEOMETRY					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT	END POINT
C7	1000.00	499.81	N8° 16' 23.03"W	(N574388.984, E934693.851)	(N574878.462, E934622.679)
L8		9.01	N6° 02' 43.65"E	(N574878.462, E934622.679)	(N574887.422, E934623.628)

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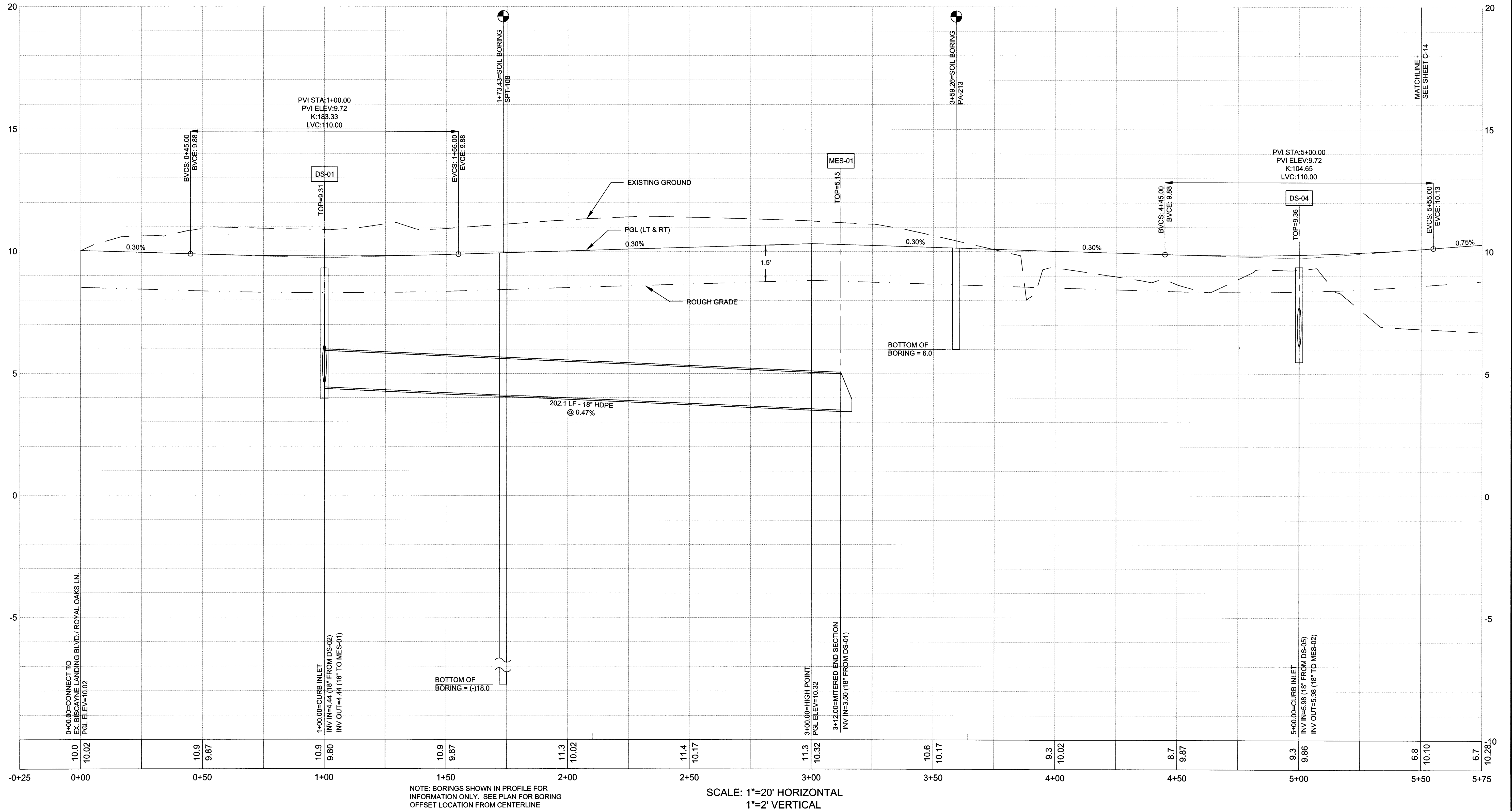
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SHEET TITLE **ROADWAY PLAN**

SHEET
C-29

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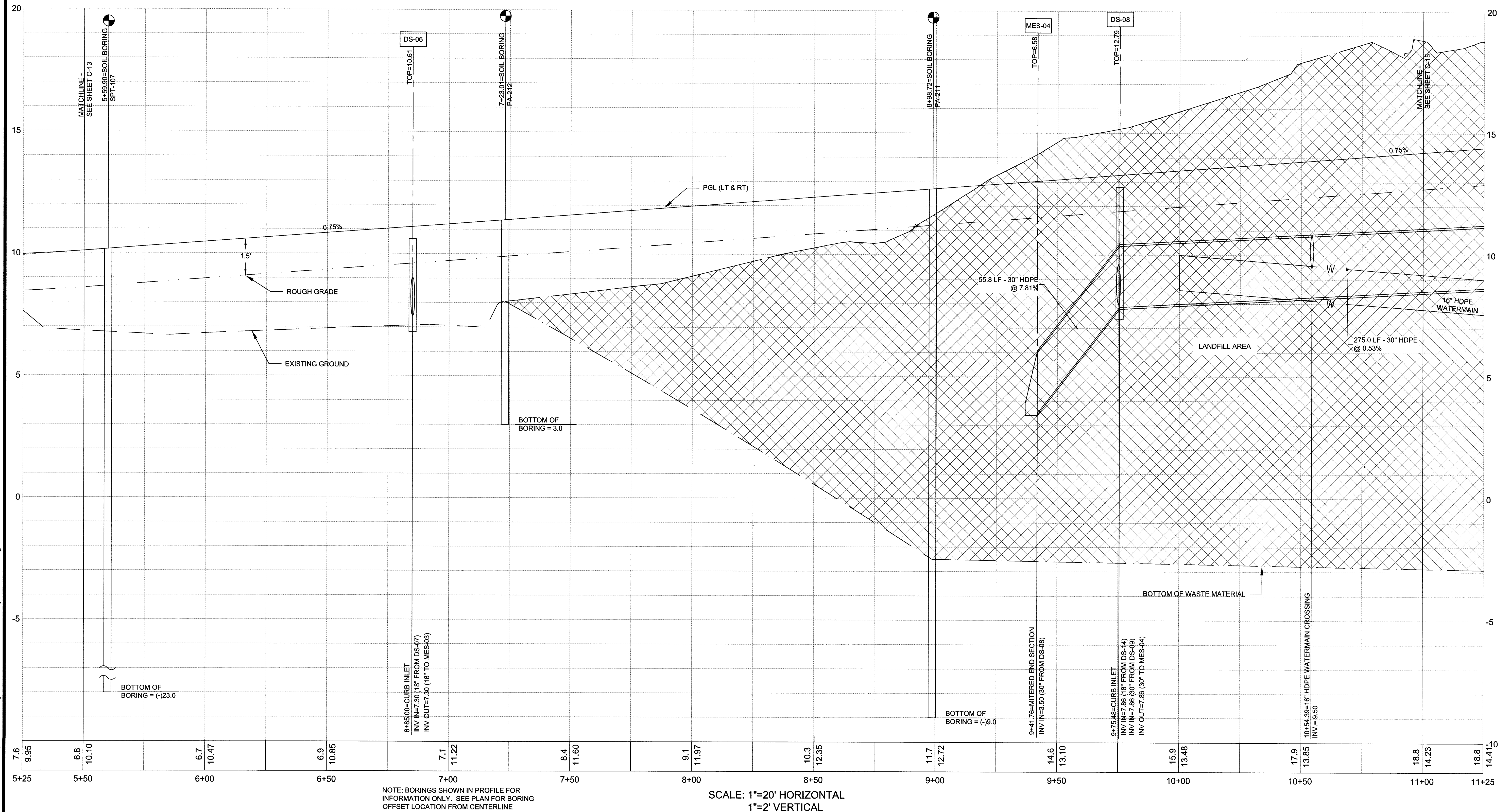
JOHN H. WILSON, P.E. NO. 53233
No 53233
Signature: [Signature] Date: 8-28-13
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CHECKED
QC

PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **ROADWAY PROFILES**

SHEET
C-30

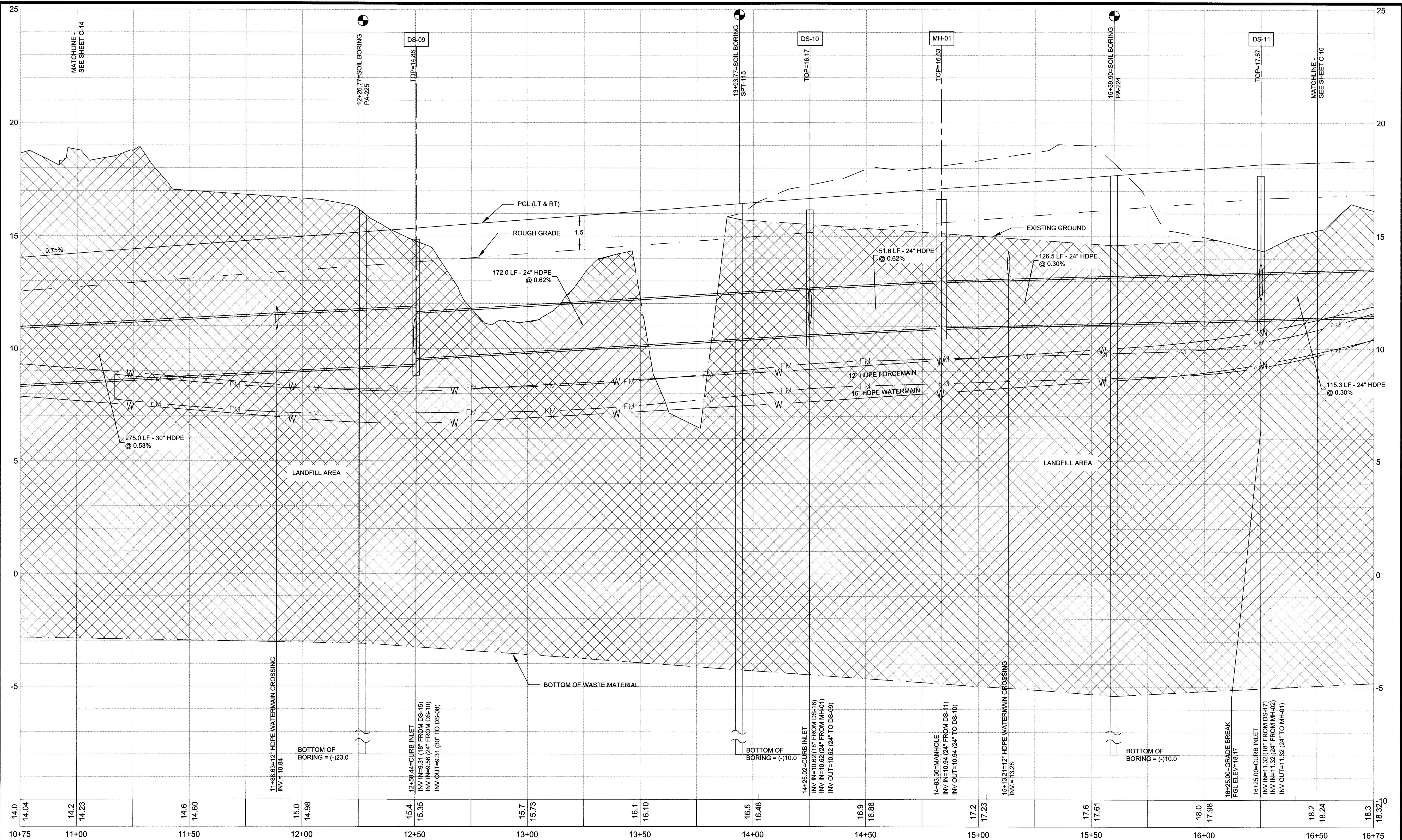
User: 22183 D:\CIVIL\PROJECTS\100032762 Biscayne Landing\PLANS\SHEETS\Roadway Profiles.dwg 08/29/2013 11:10:54 AM



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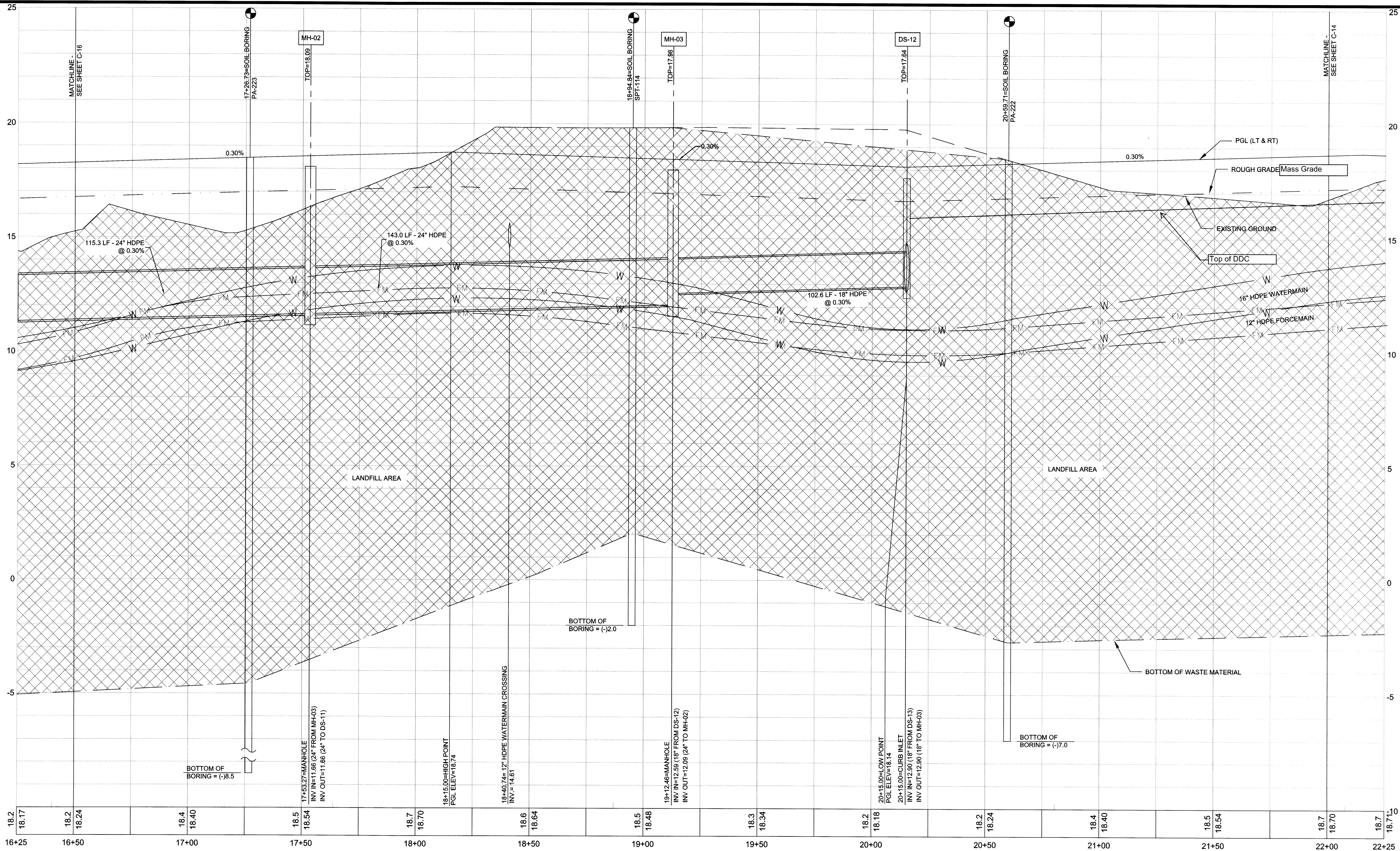
JOHN H. WILT, P.E.
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Date: 8-28-13
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PROJECT: **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE: **ROADWAY PROFILES**

SHEET
C-32

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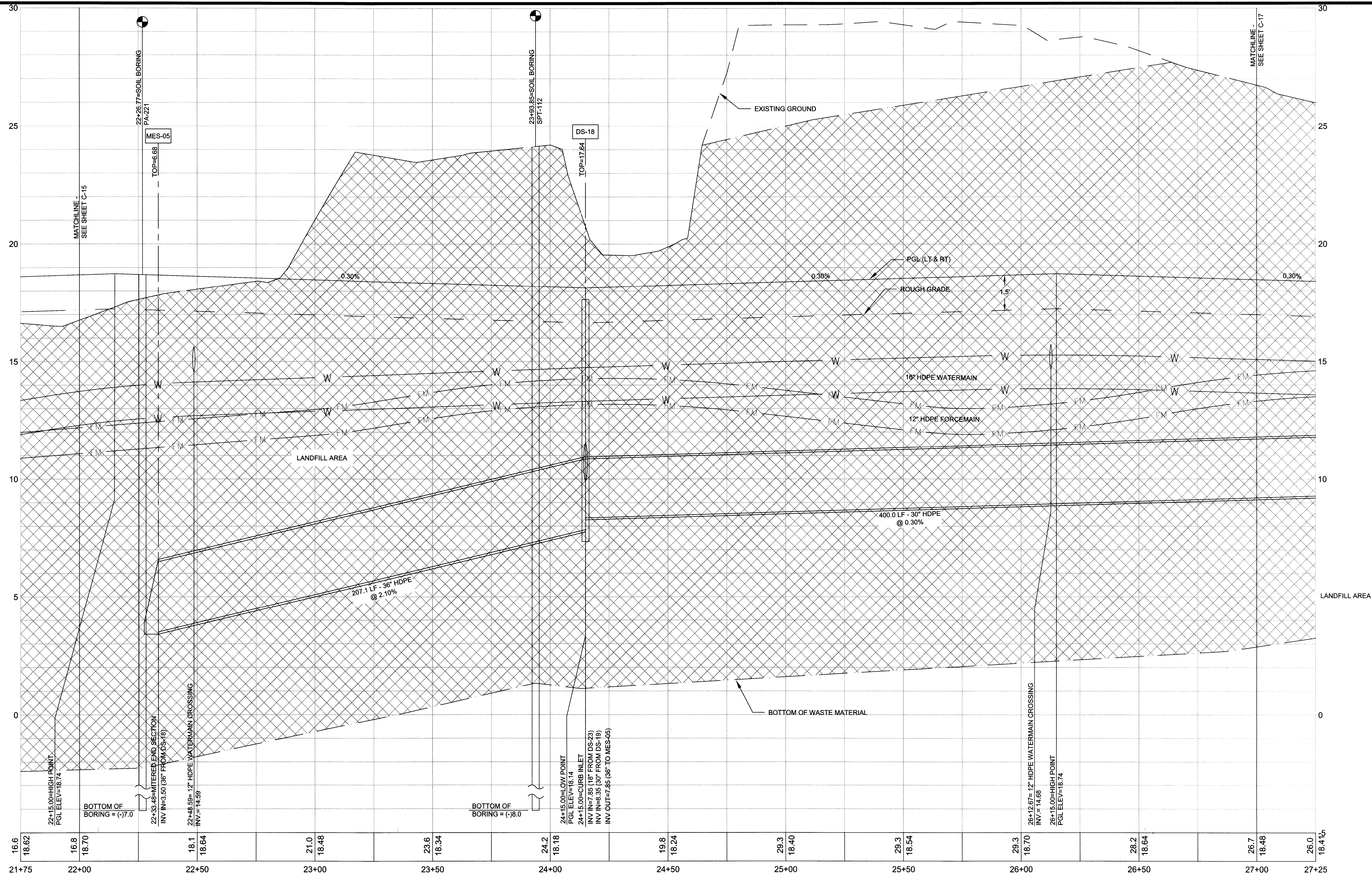
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Signature
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JCB NO. 100032762
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PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **ROADWAY PROFILES**

SHEET
C-33

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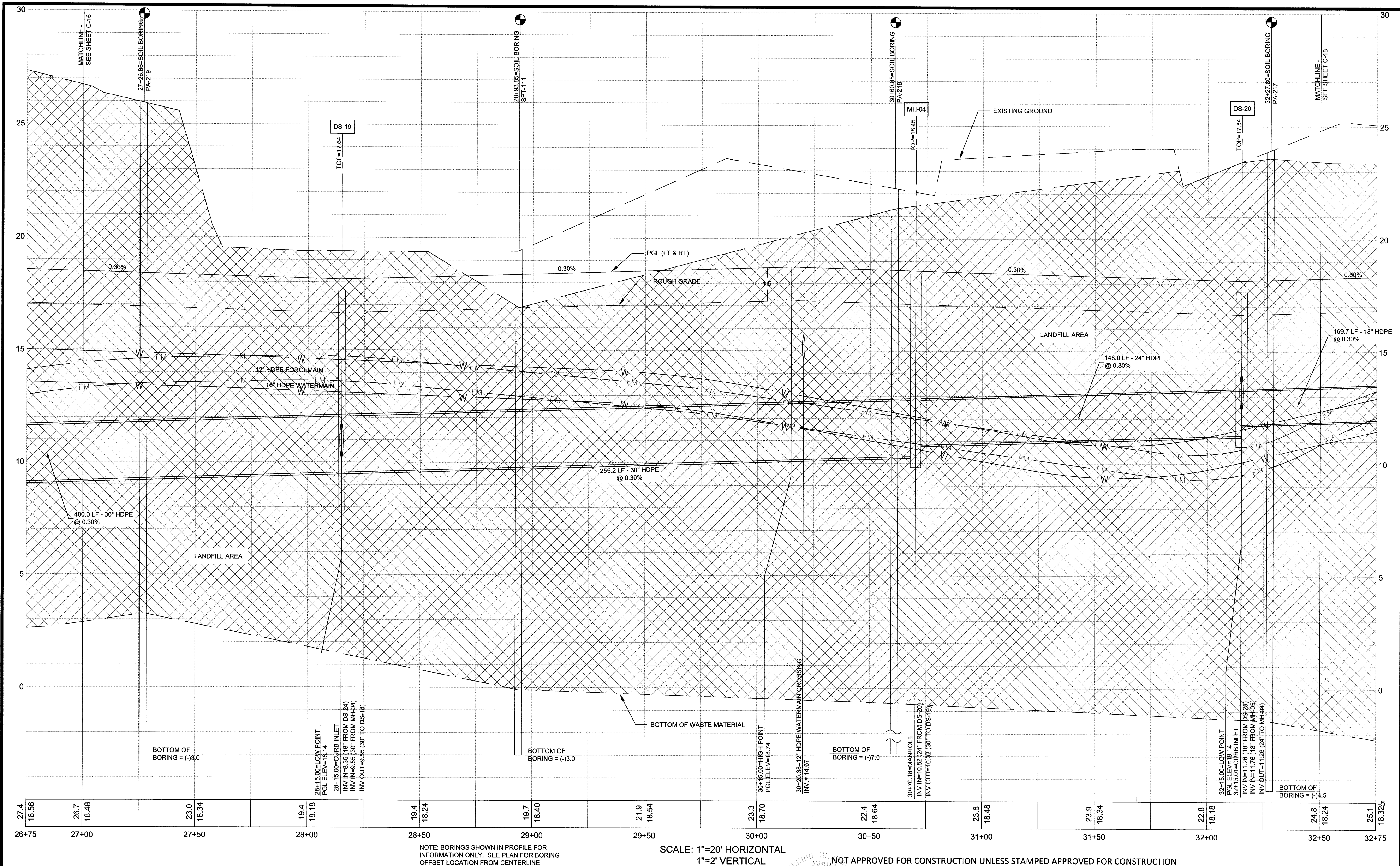
JOHN H. WILSON
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10-24-13
Date
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PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **ROADWAY PROFILES**

SHEET
C-34

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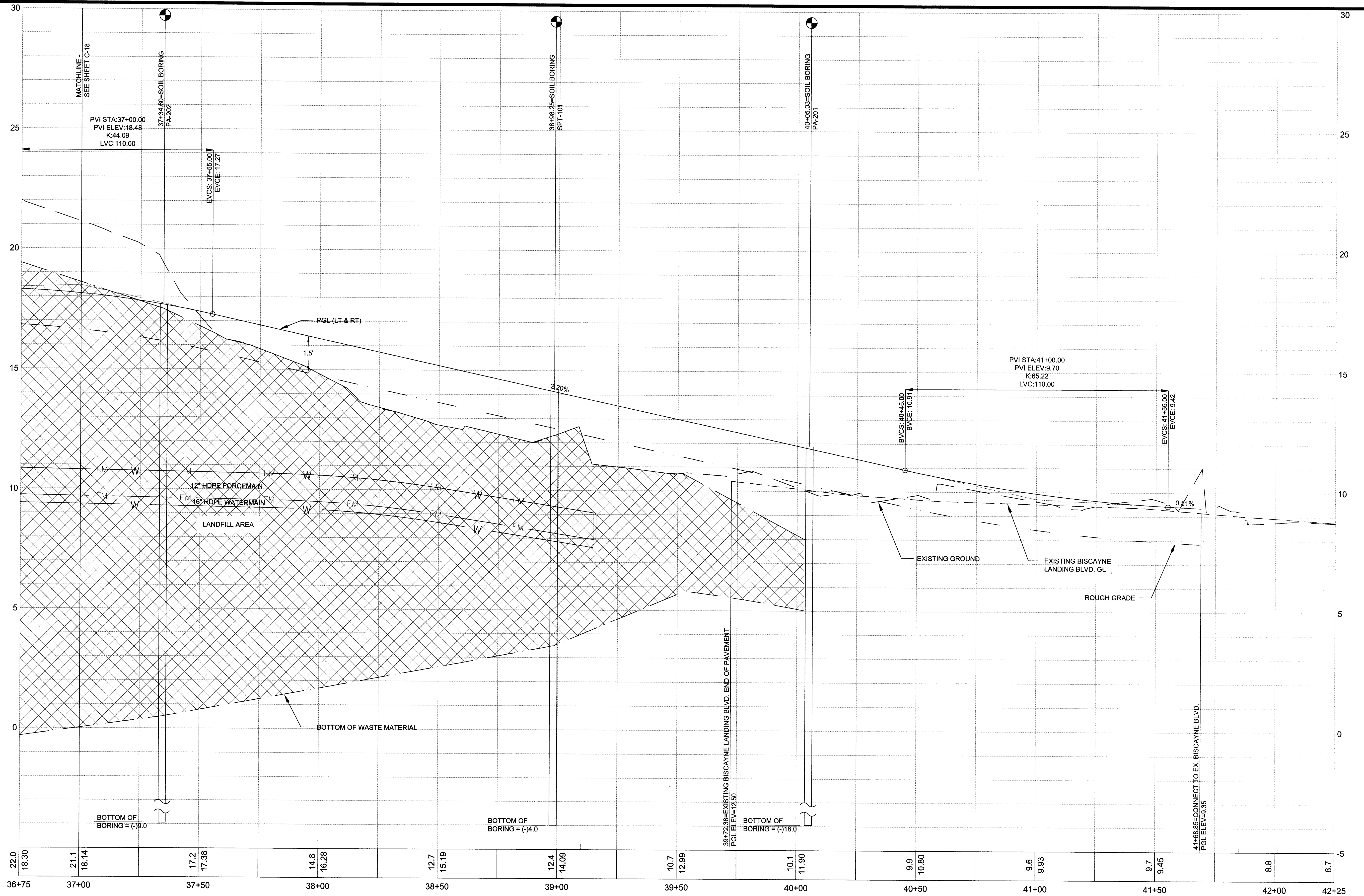
JOHN H. WILT
Signature
Date 10-28-13
P.E. NO. 53233
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PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **ROADWAY PROFILES**

SHEET
C-35

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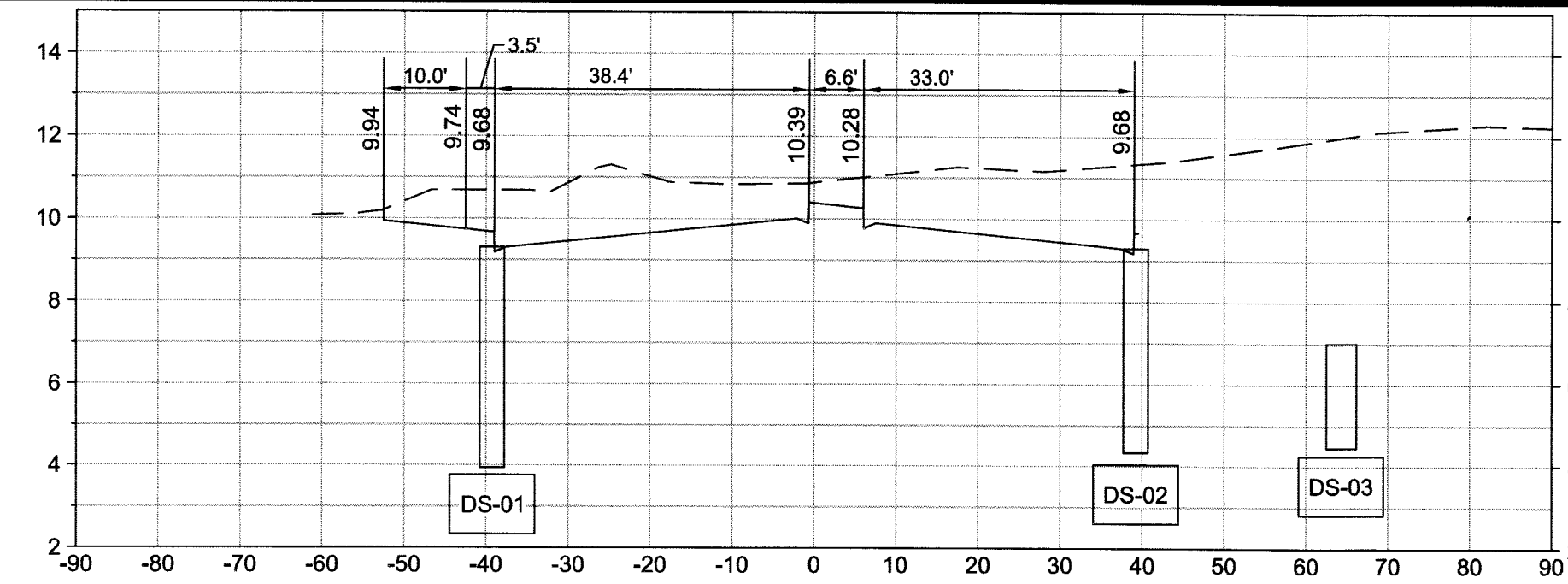
JOHN H. WILT, P.E. No. 53233
Signature: [Signature]
Date: 8-2-13
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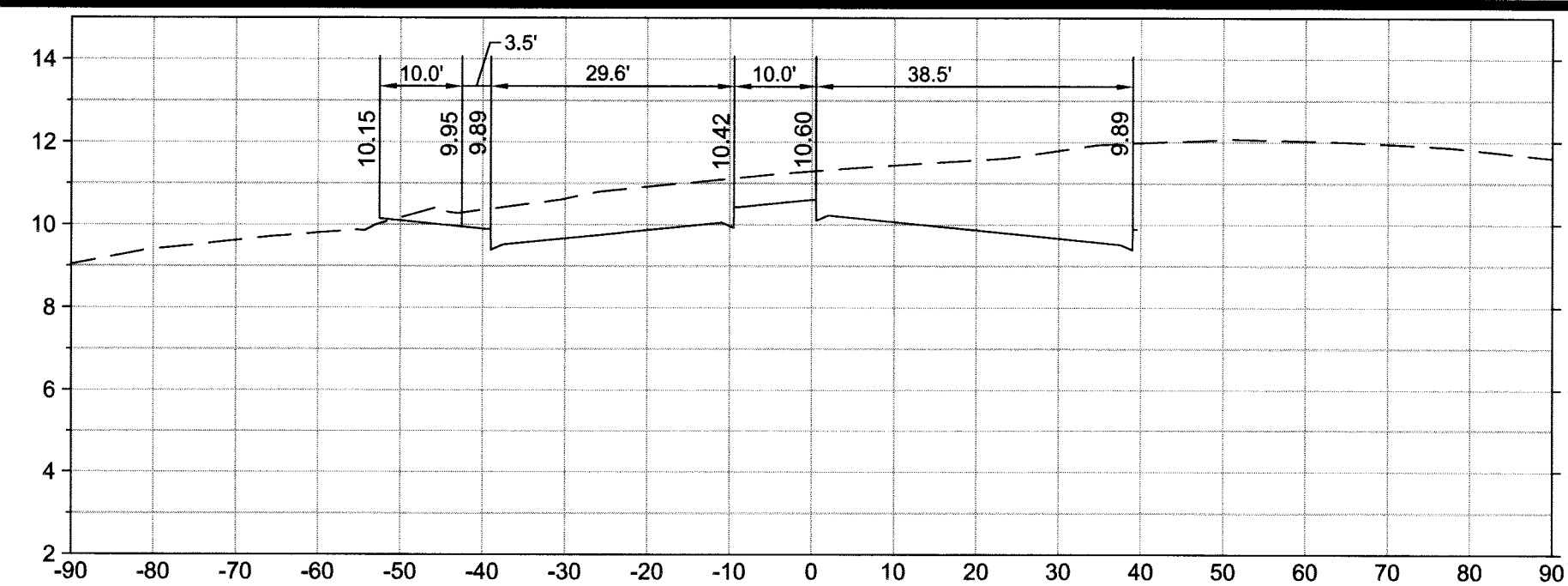
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SHEET TITLE: **ROADWAY PROFILES**

SHEET
C-37

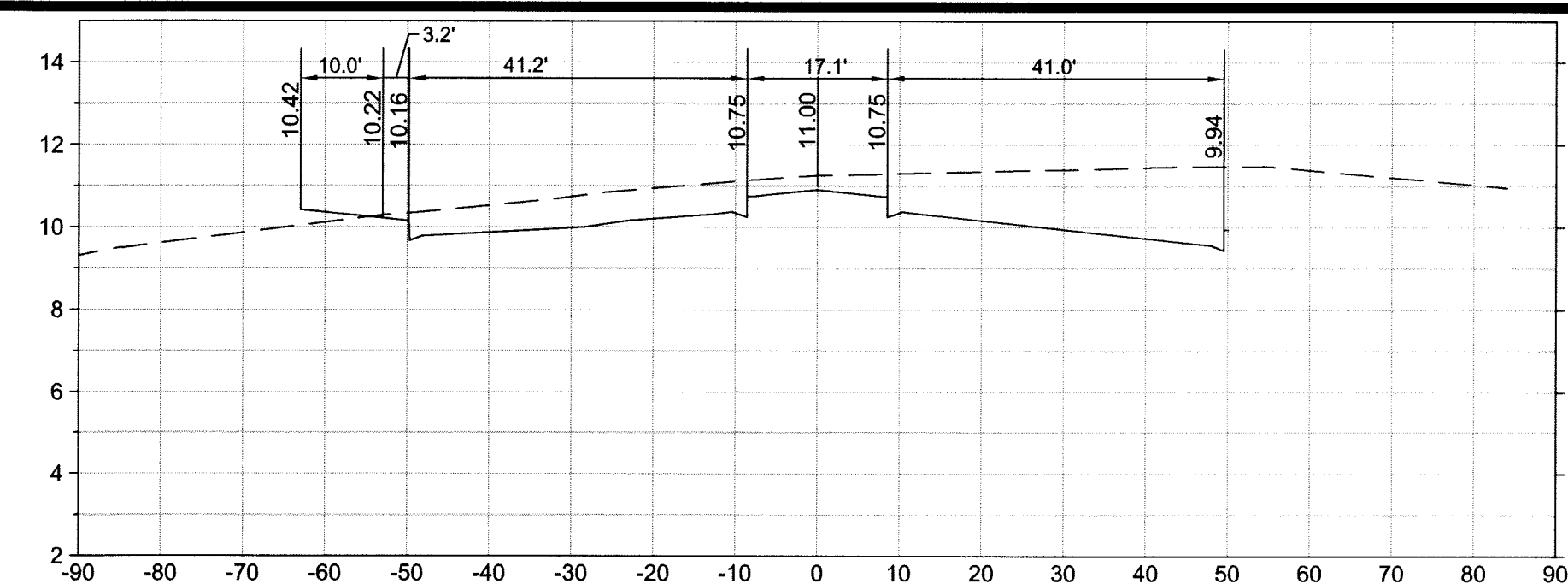
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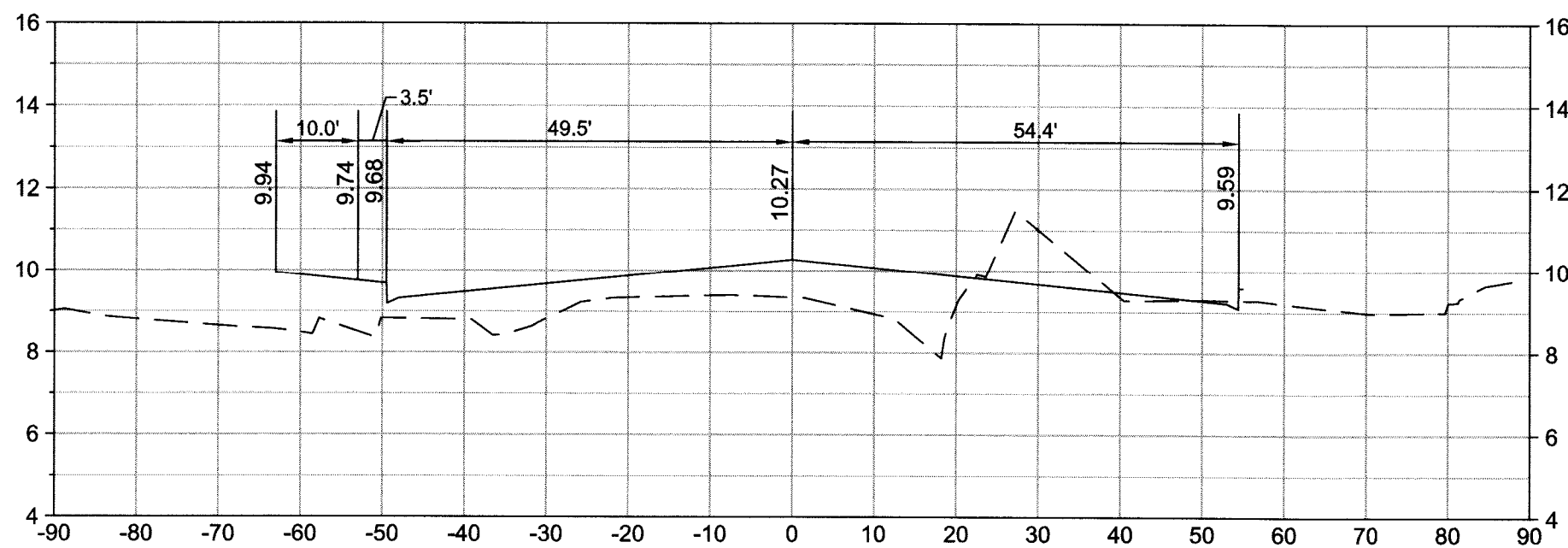
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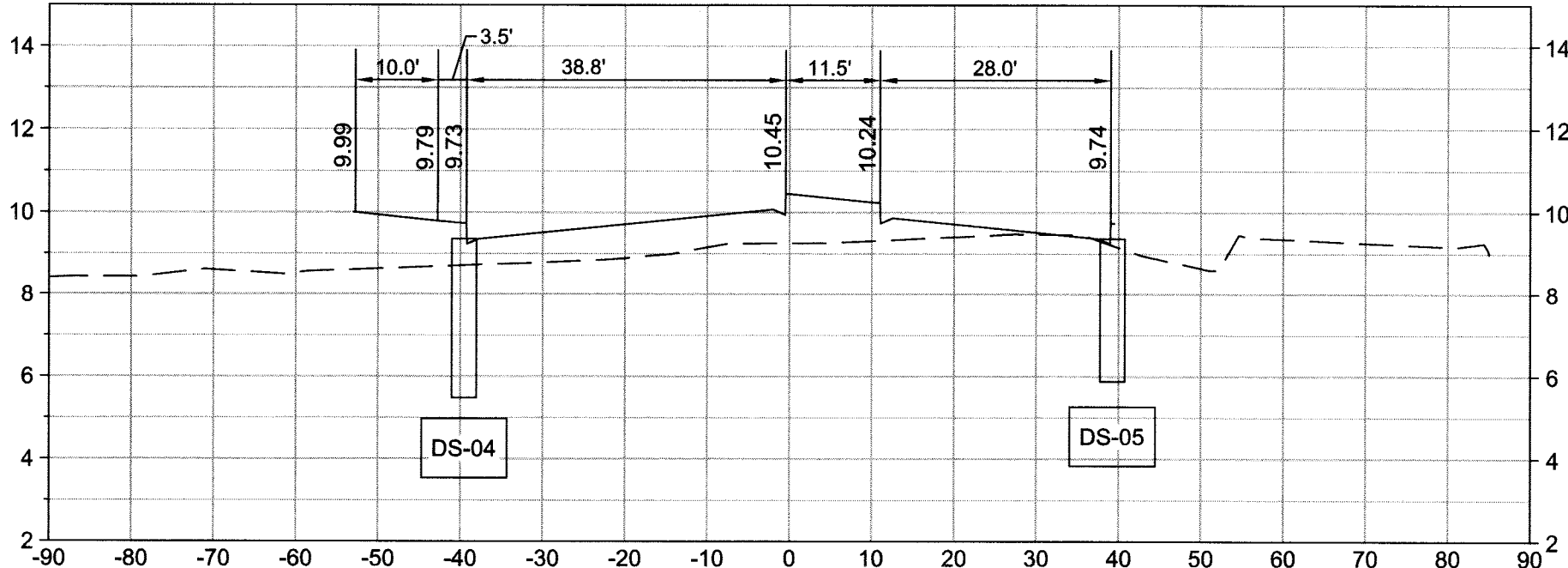
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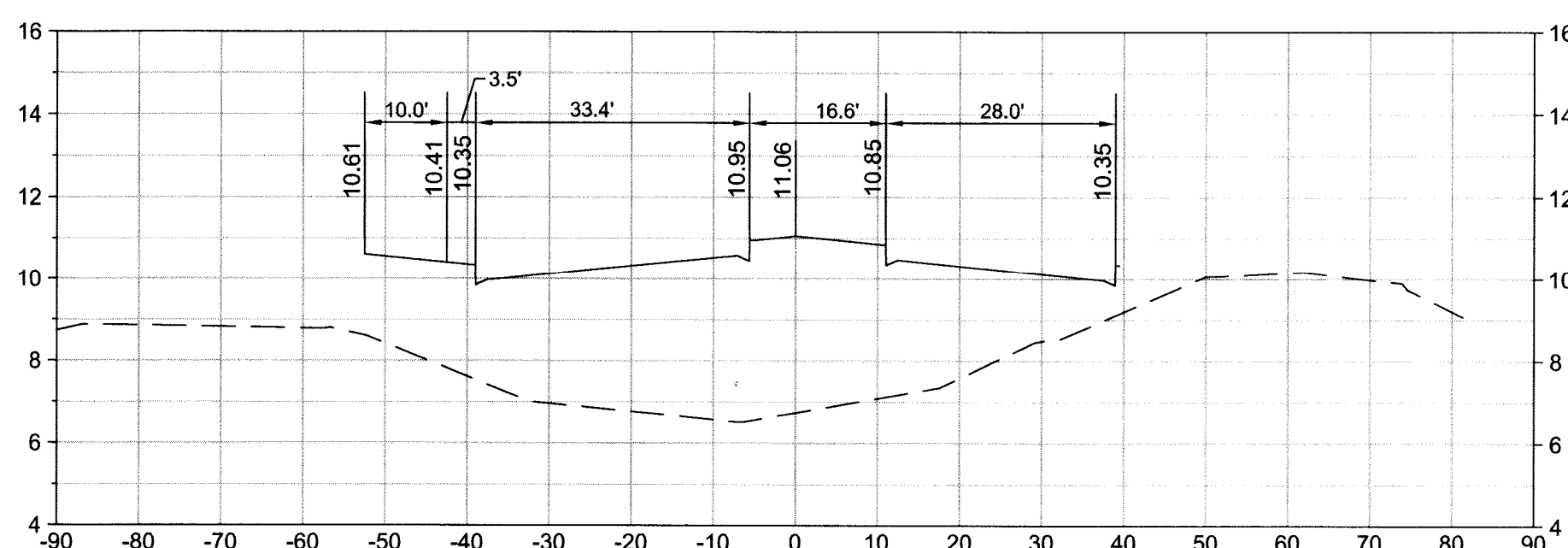
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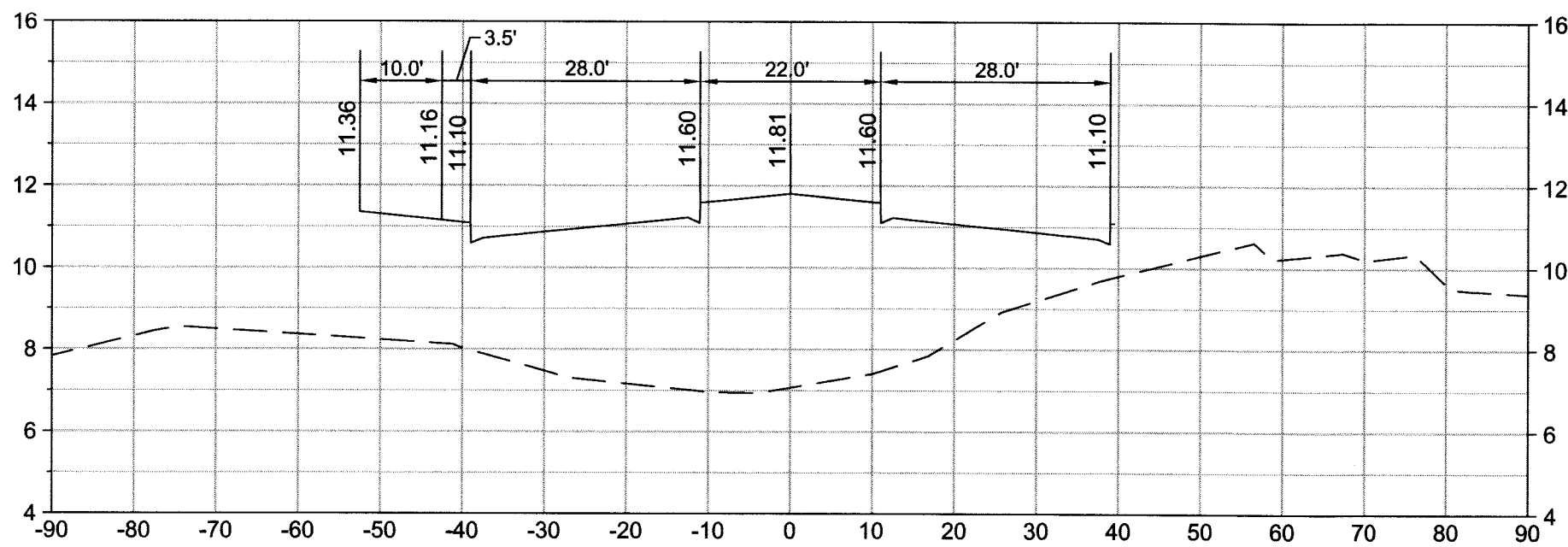
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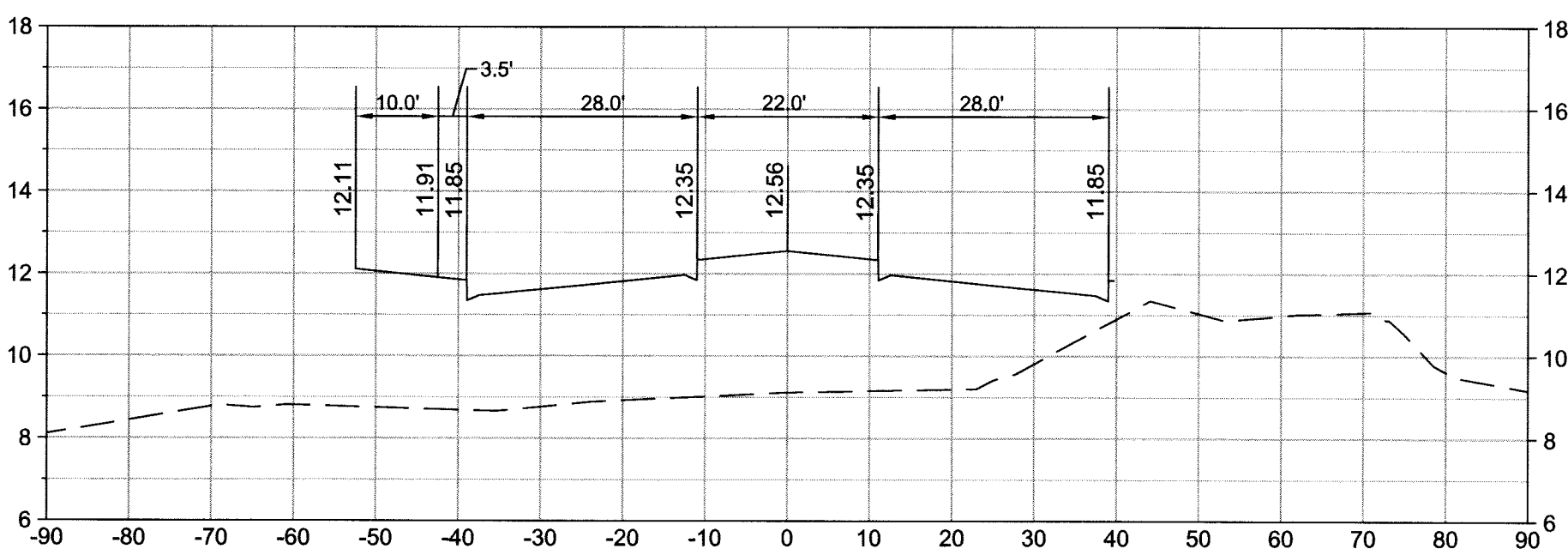
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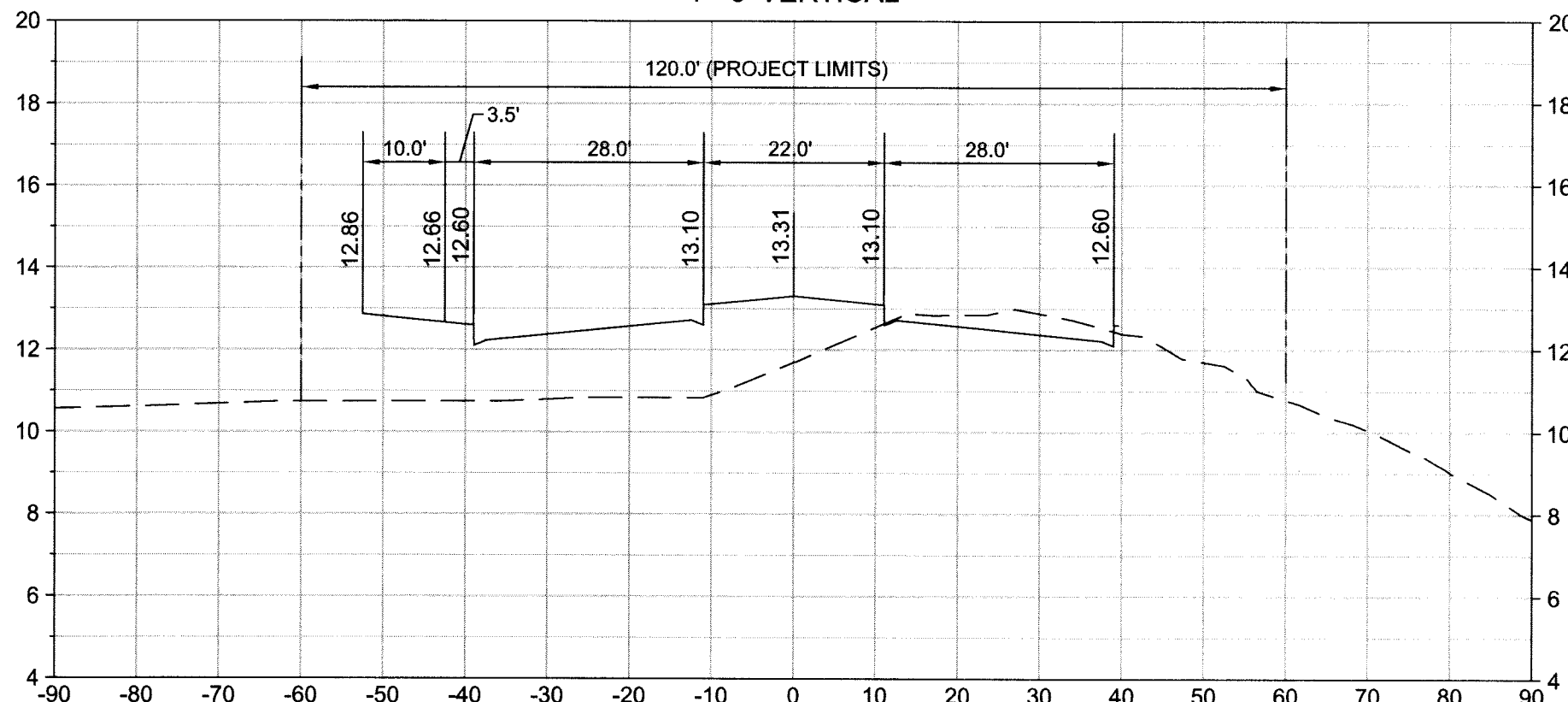
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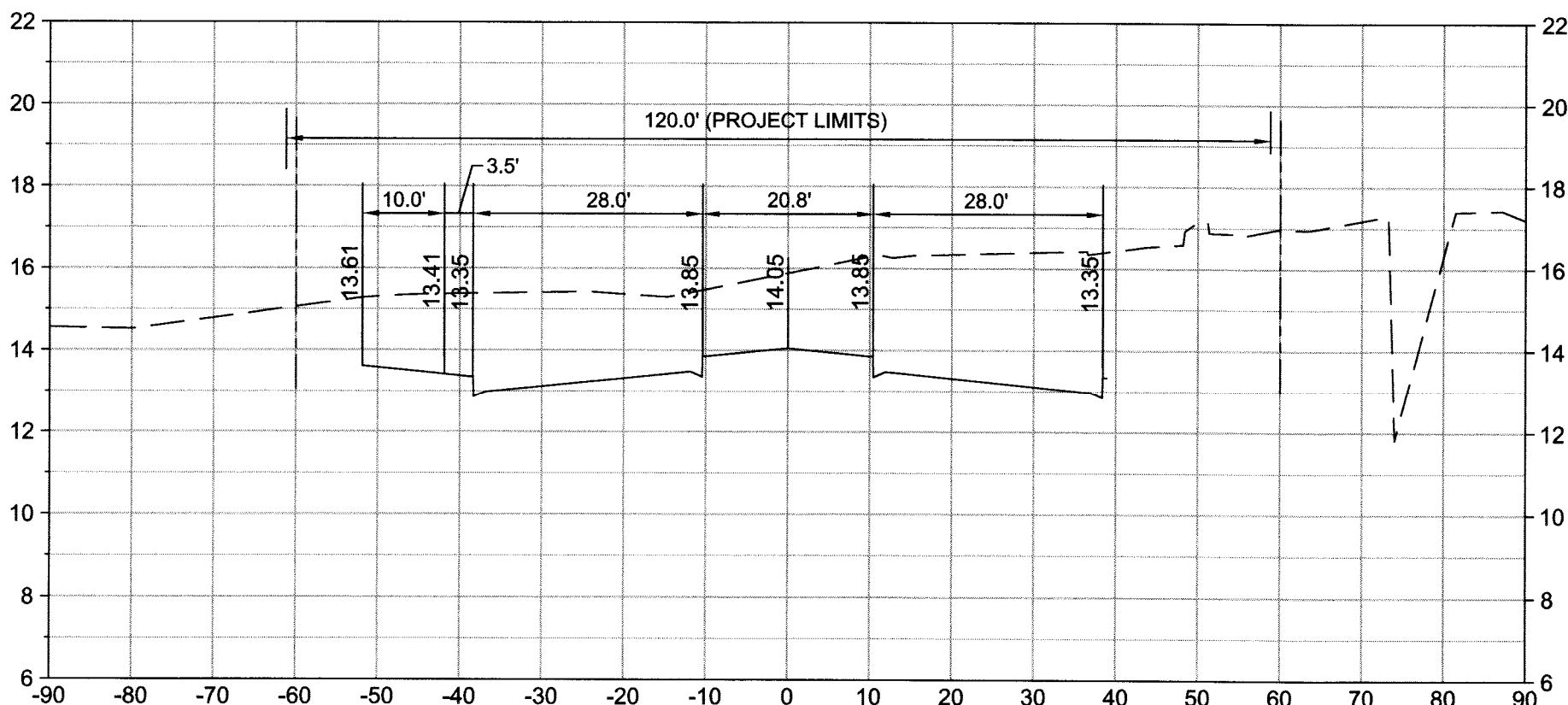
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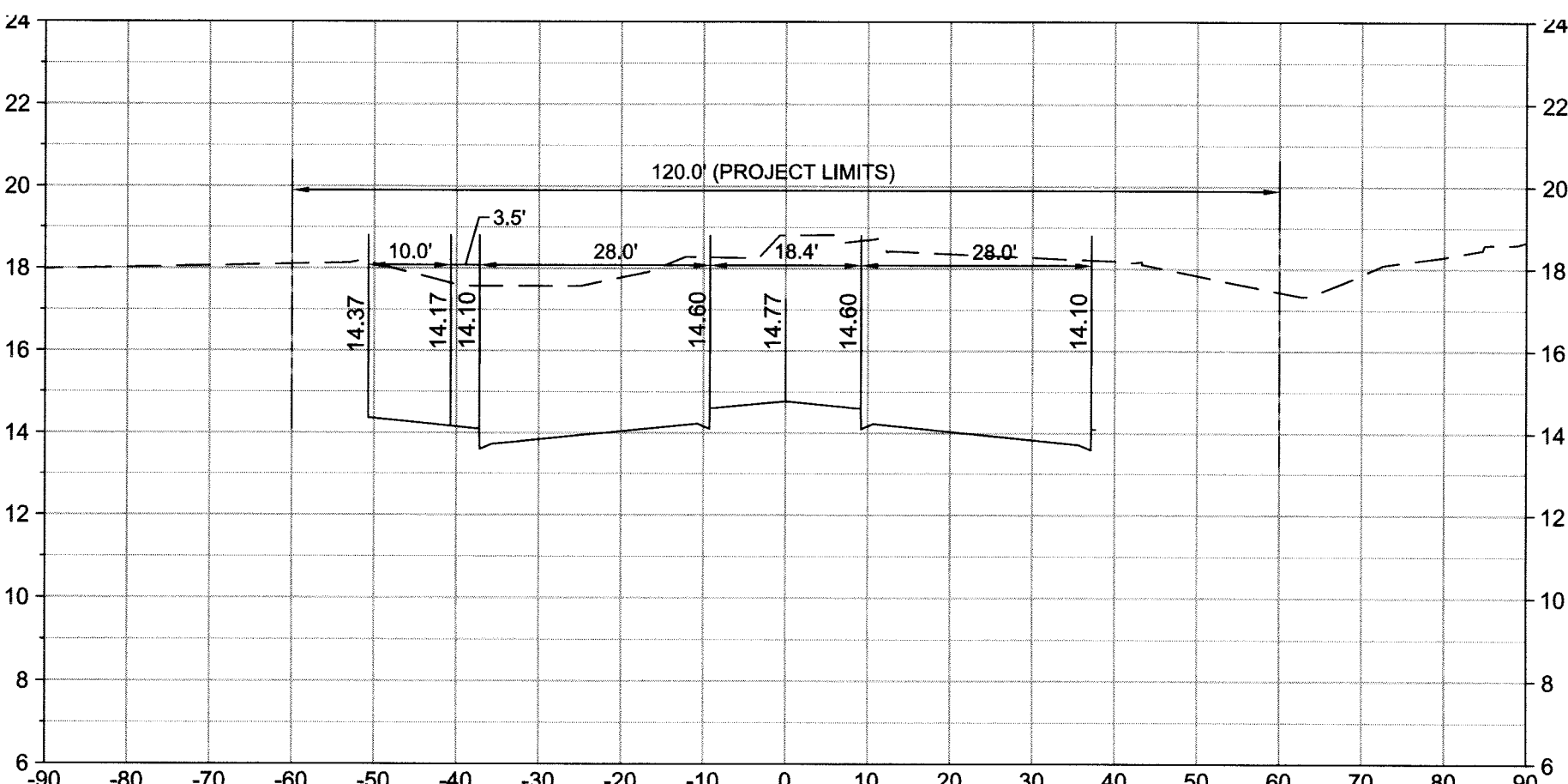
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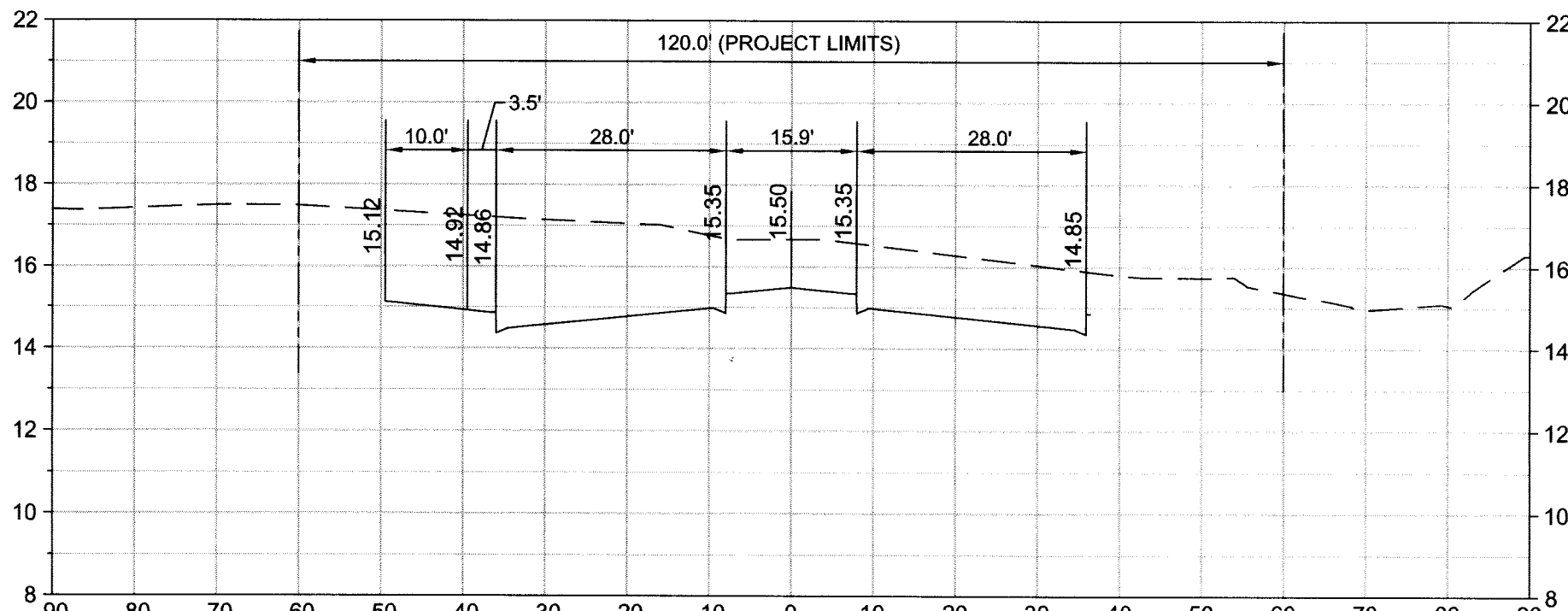
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STATION 10+00.00
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1"=5' VERTICAL



STATION 11+00.00
SCALE: 1"=20' HORIZONTAL
1"=5' VERTICAL



STATION 12+00.00
SCALE: 1"=20' HORIZONTAL
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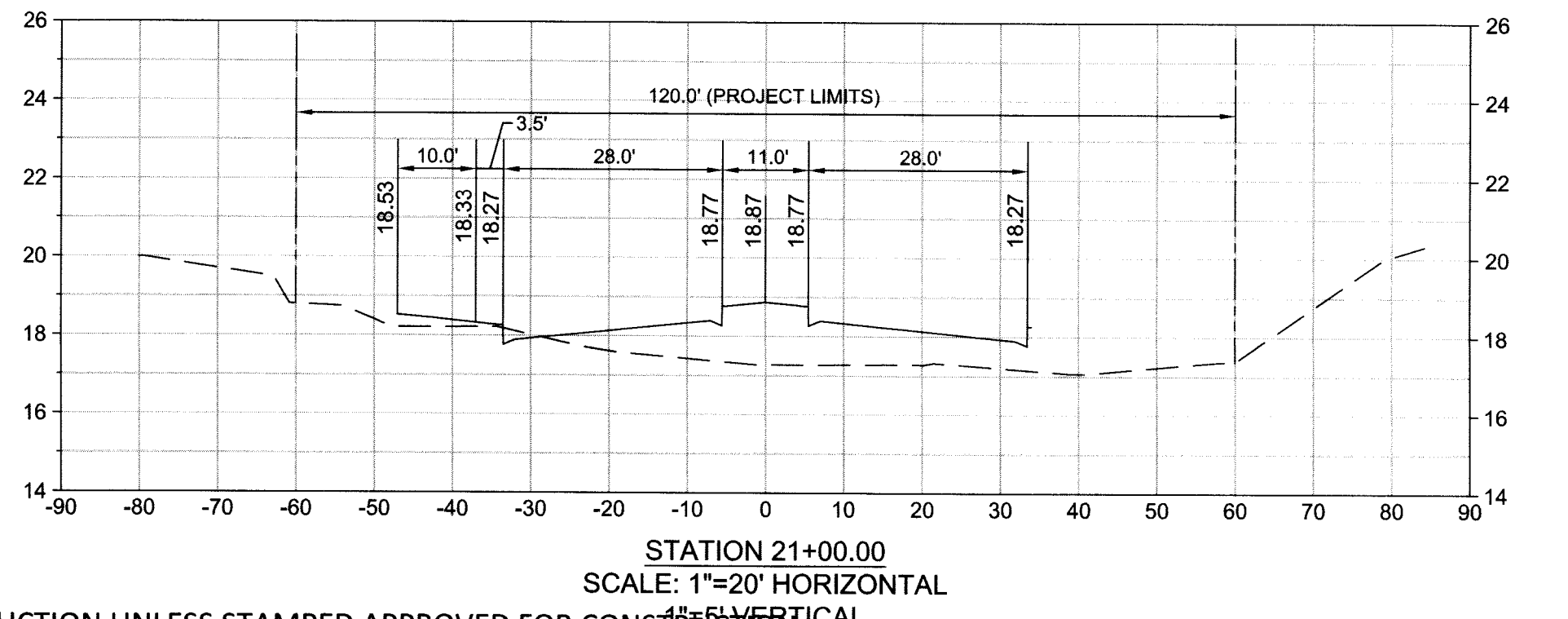
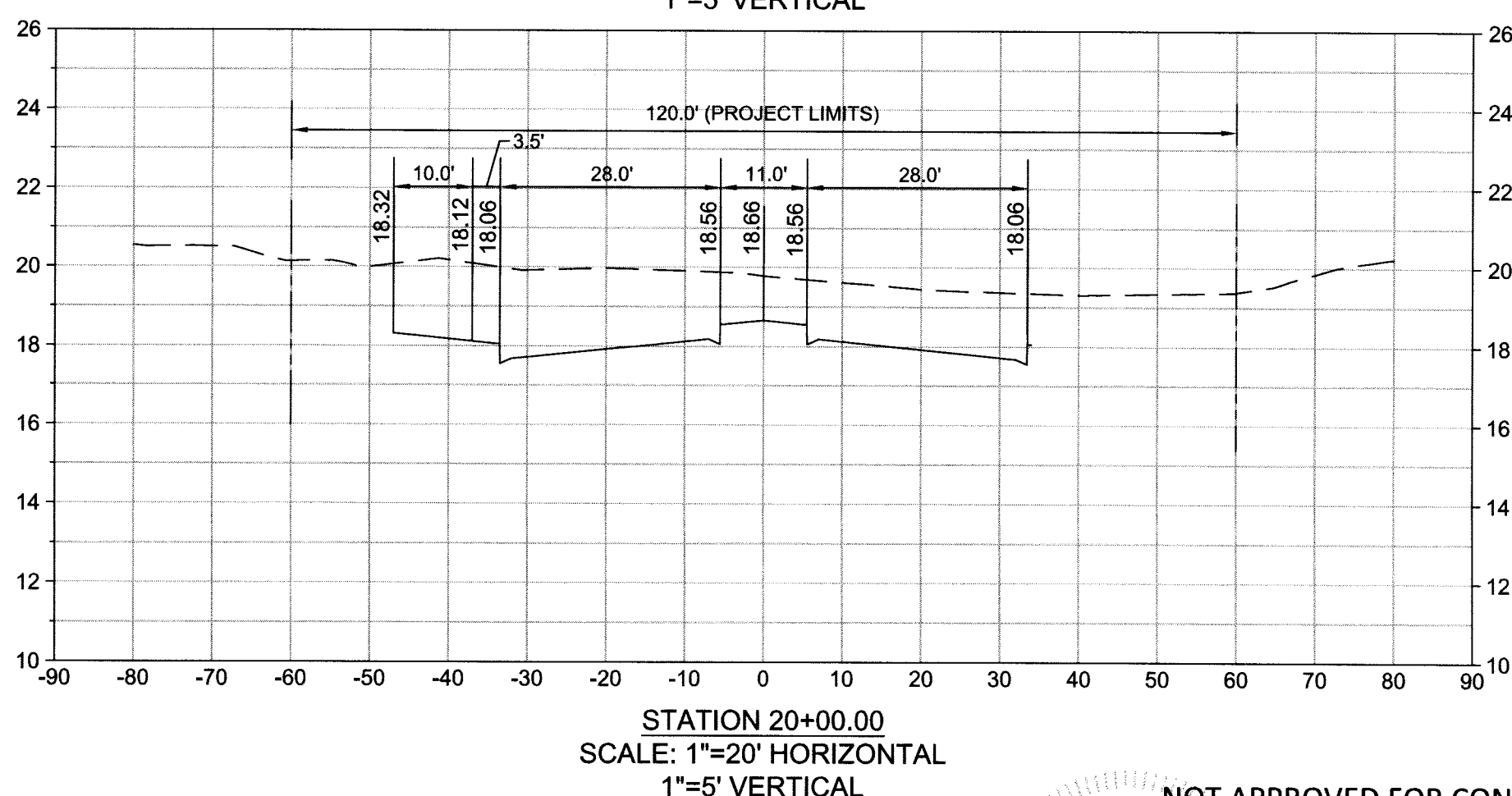
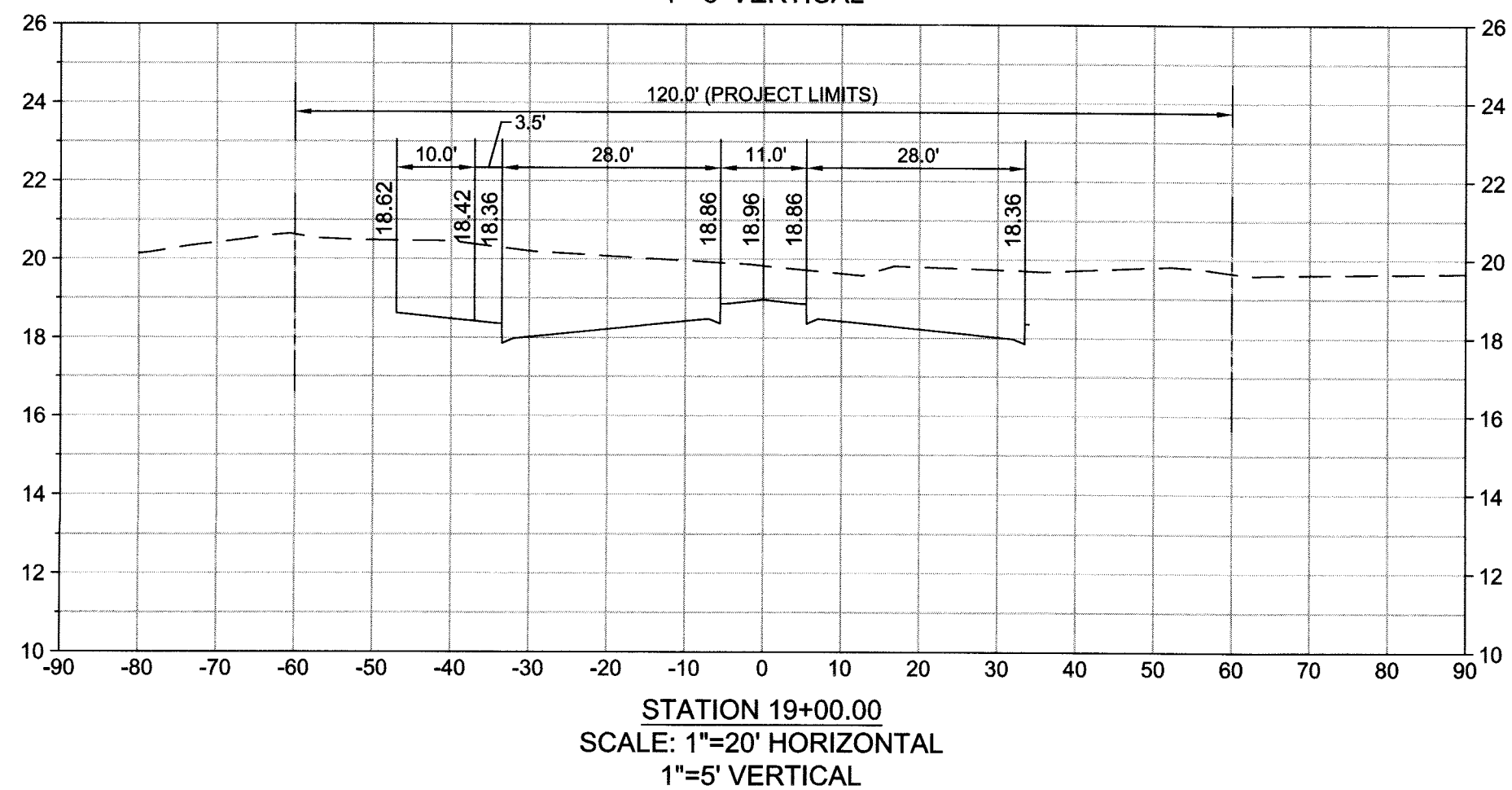
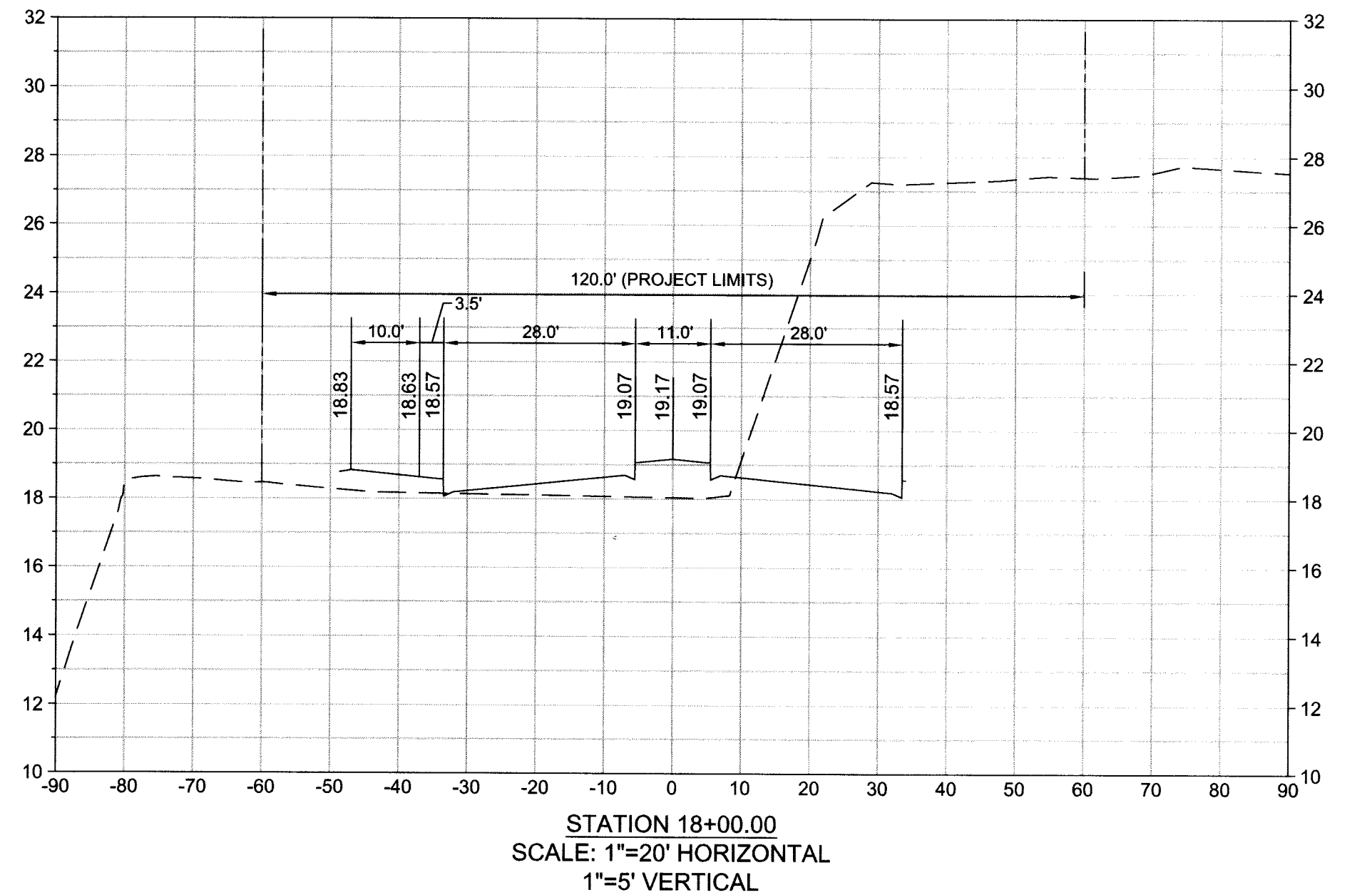
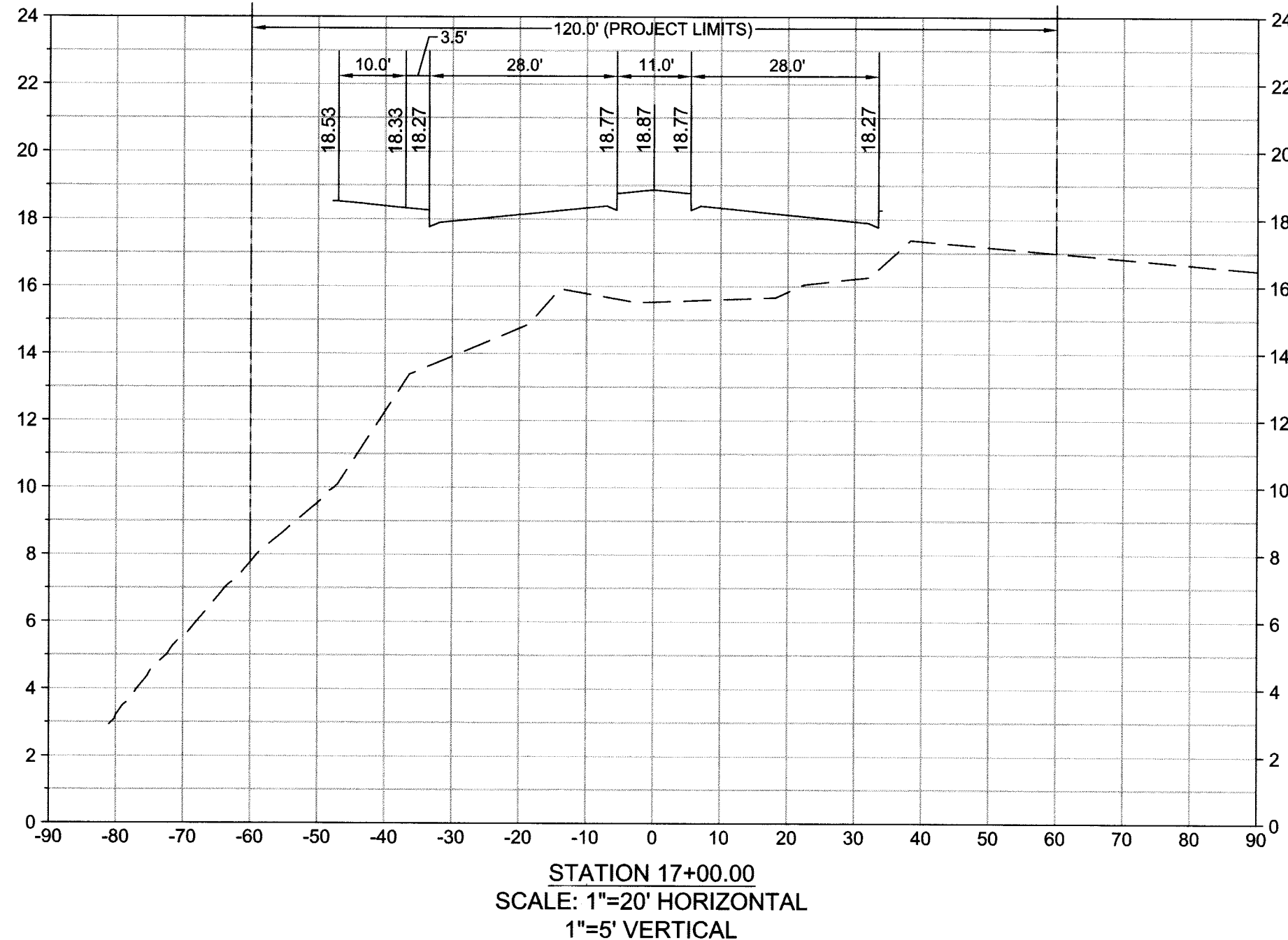
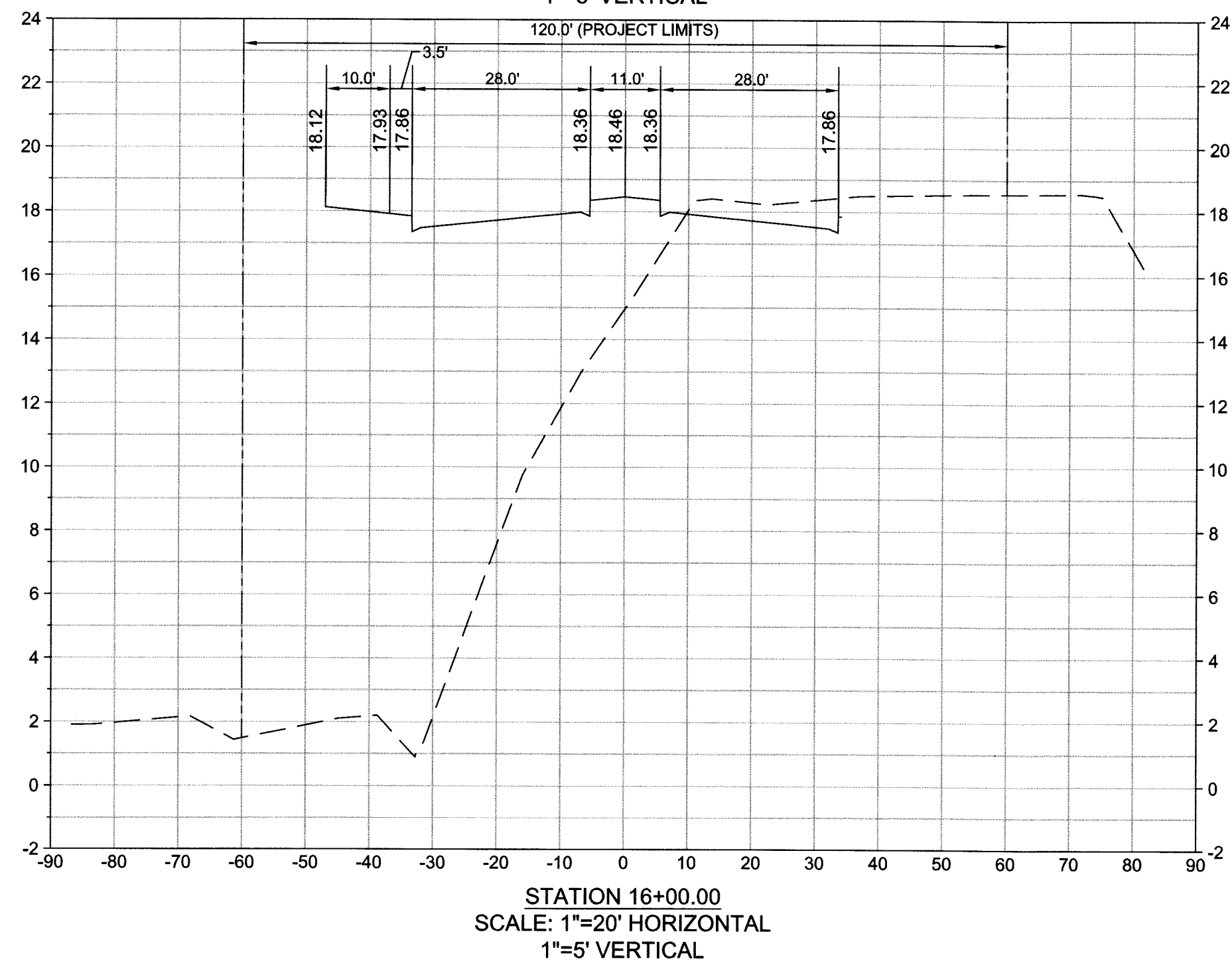
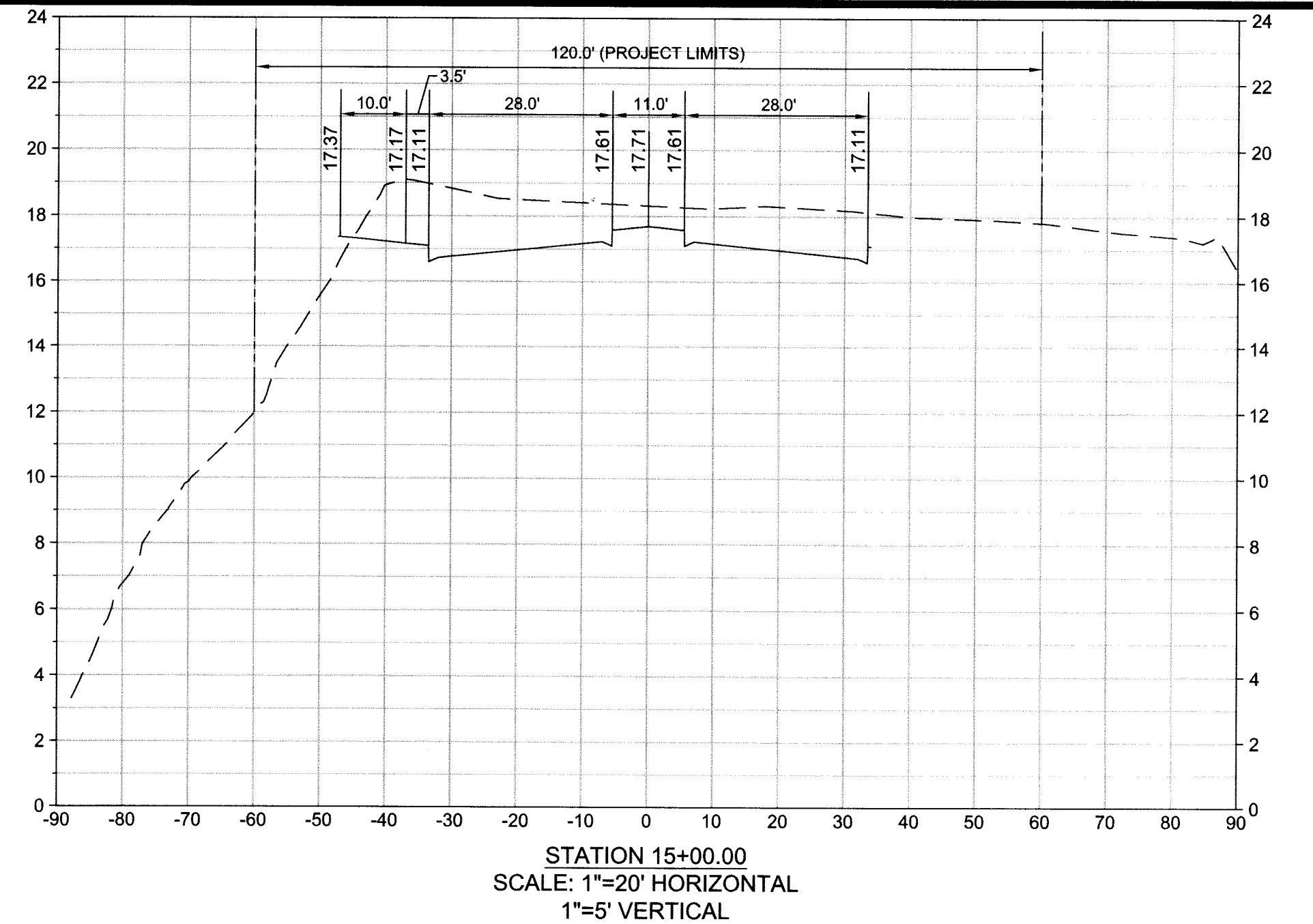
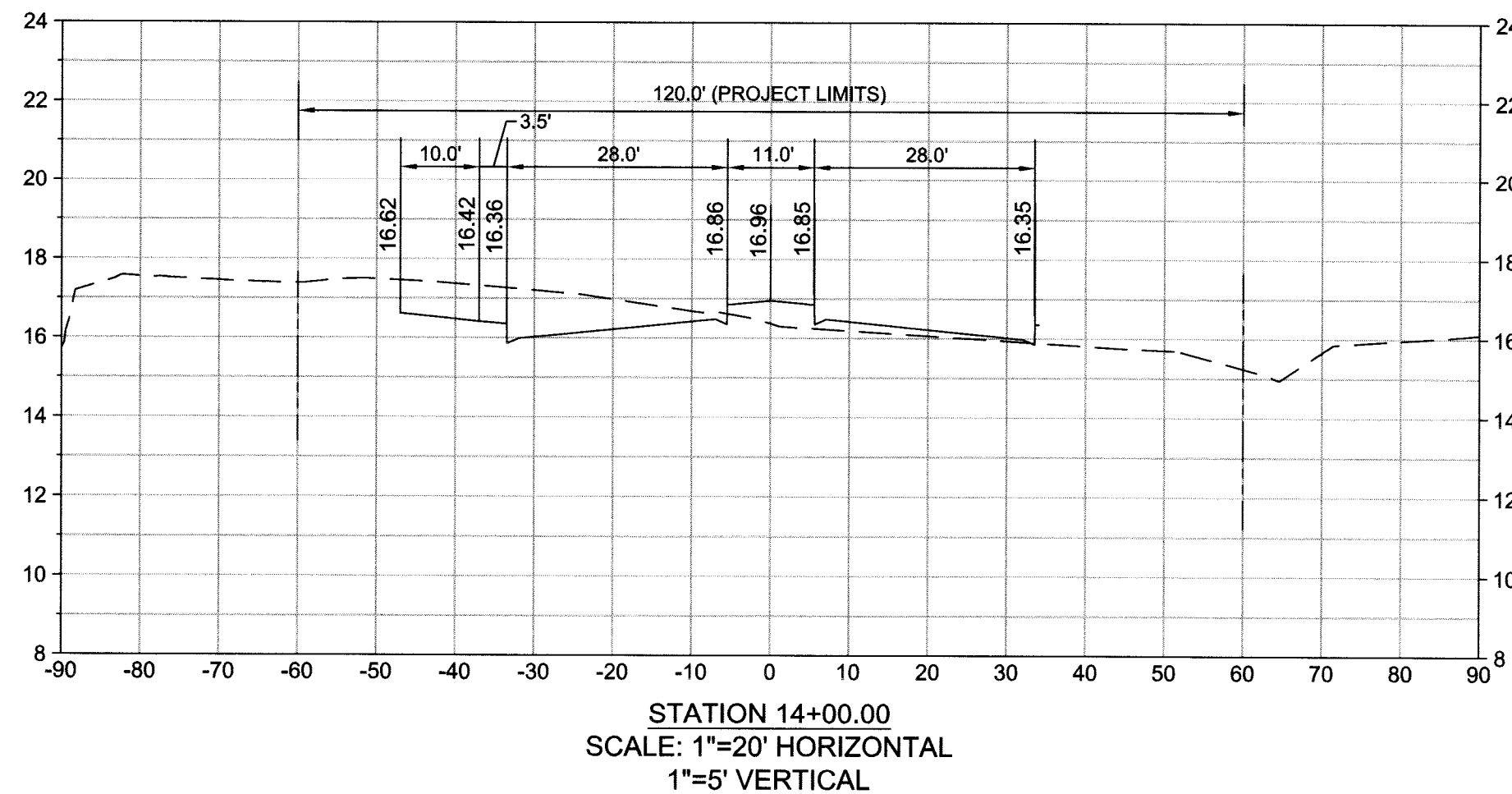
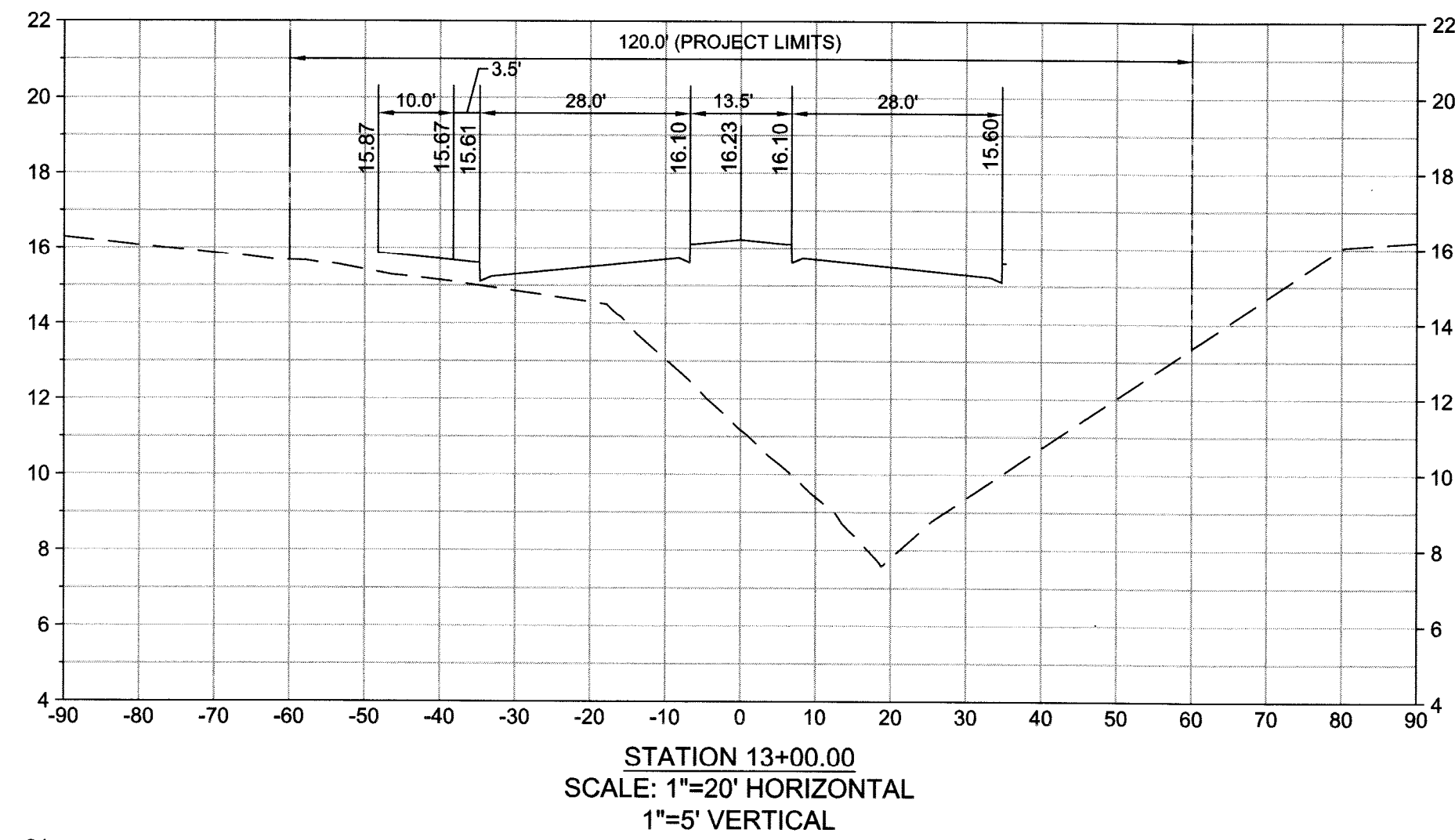
JOHN A. WILSON, P.E. NO. 53233
Signature: *[Signature]* Date: 12-22-13
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PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **CROSS-SECTIONS**

SHEET
C-38

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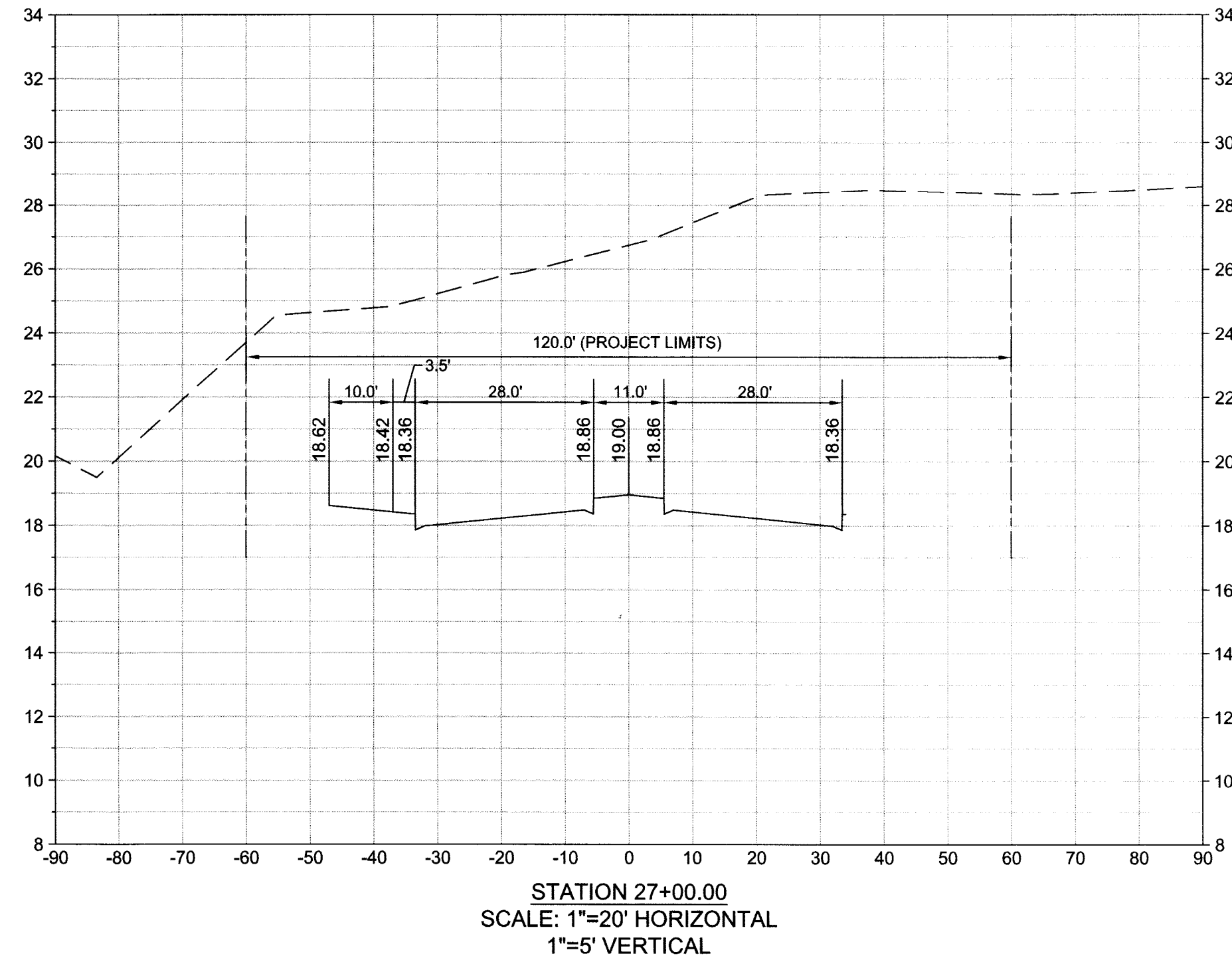
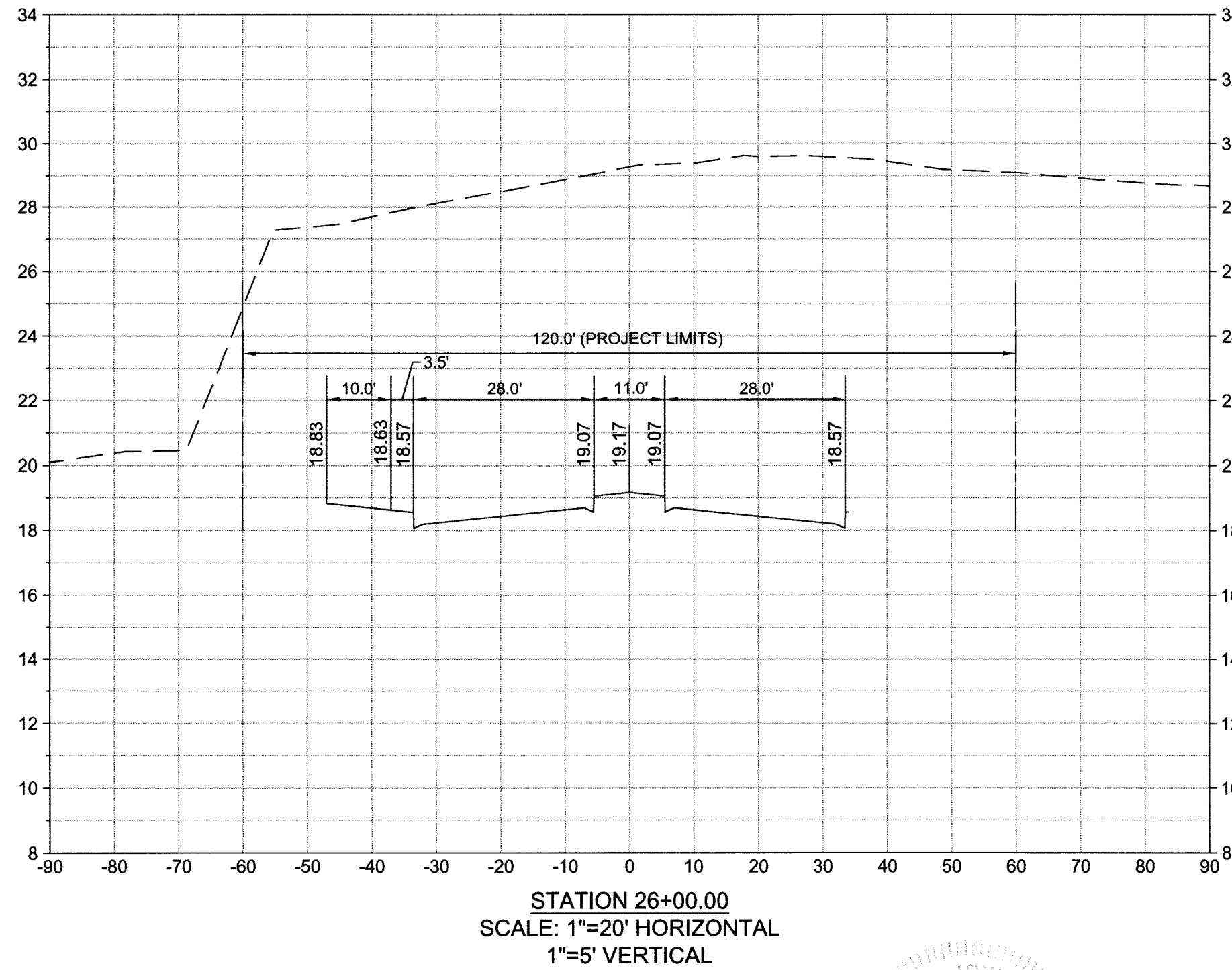
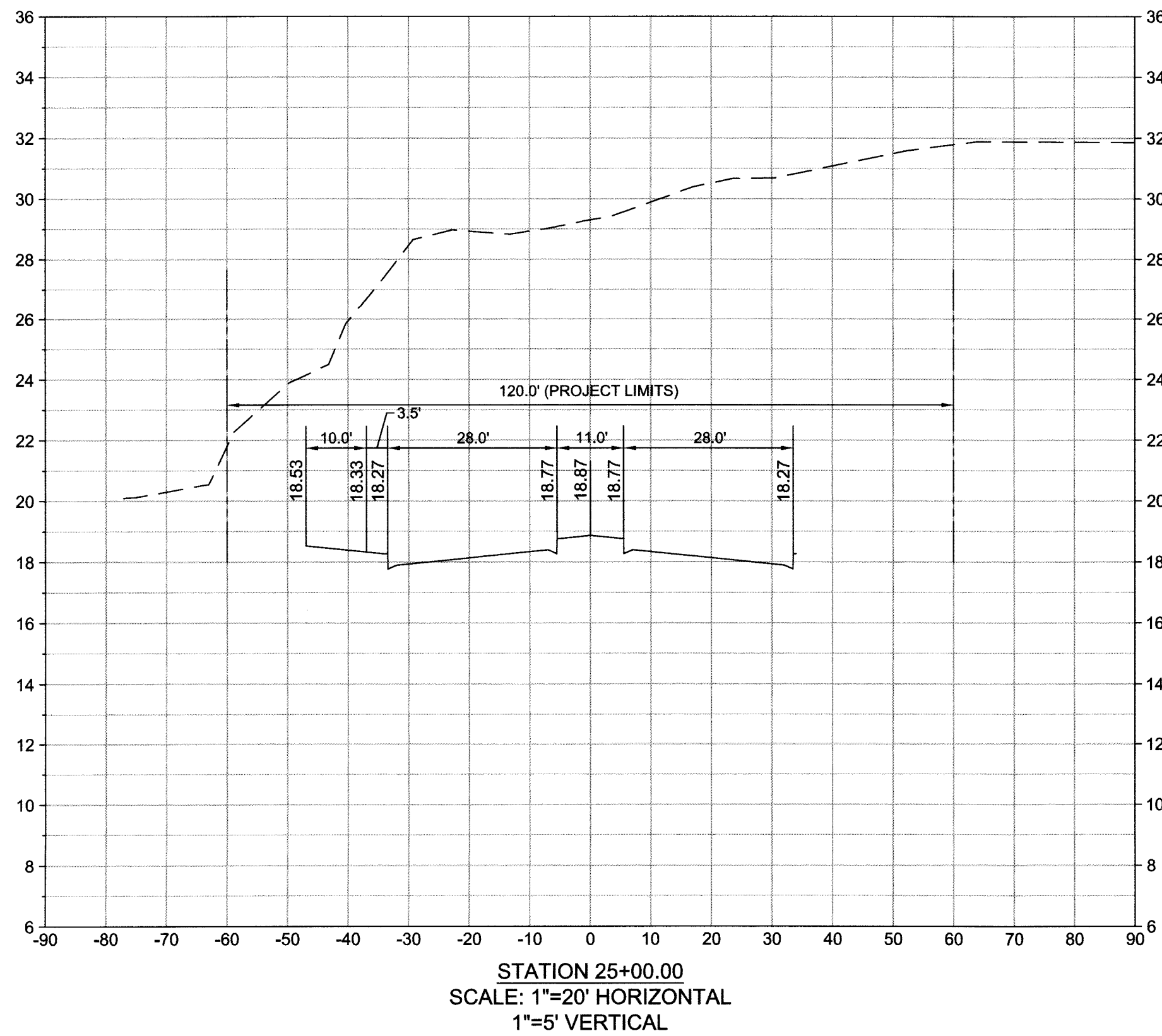
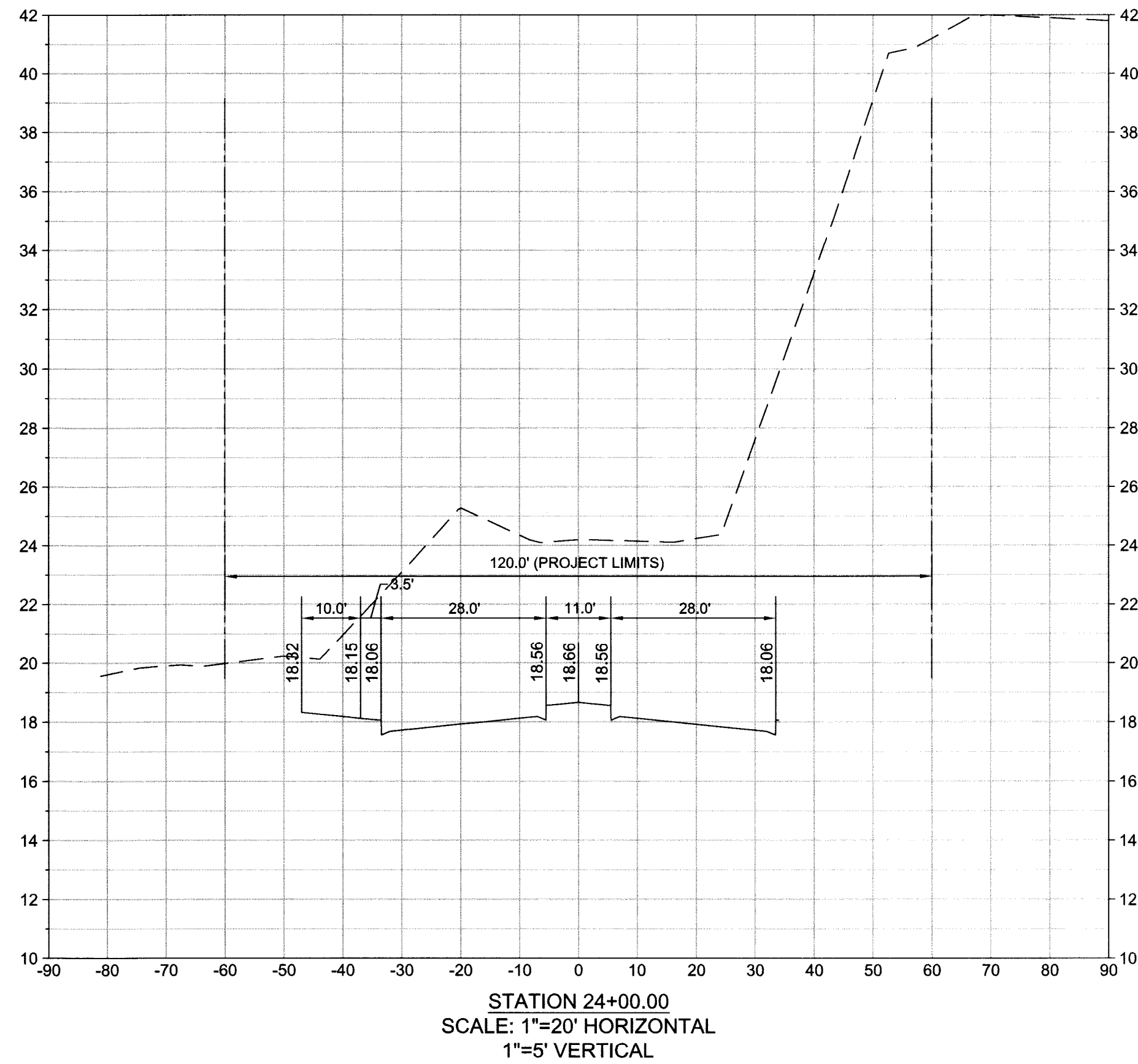
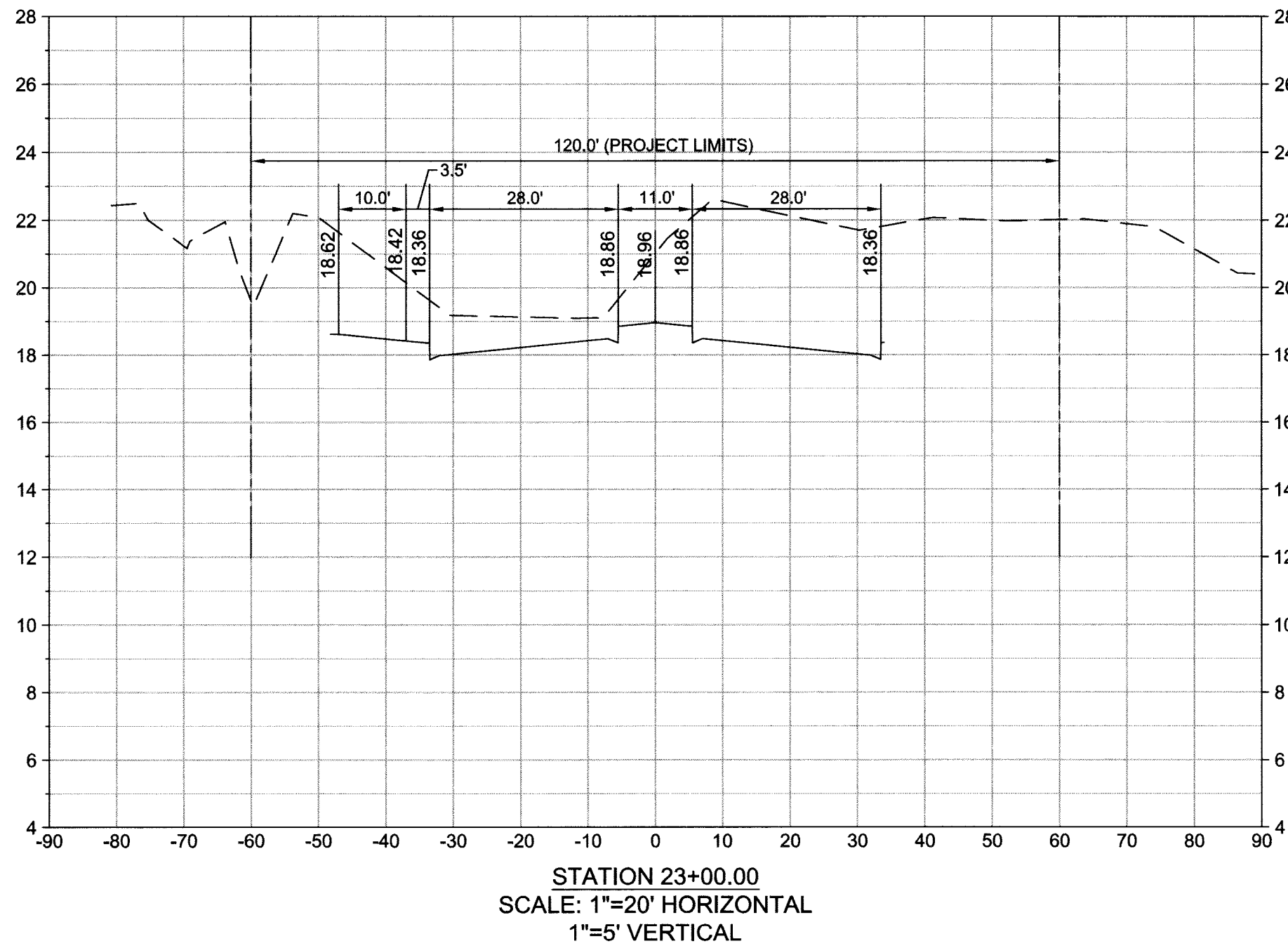
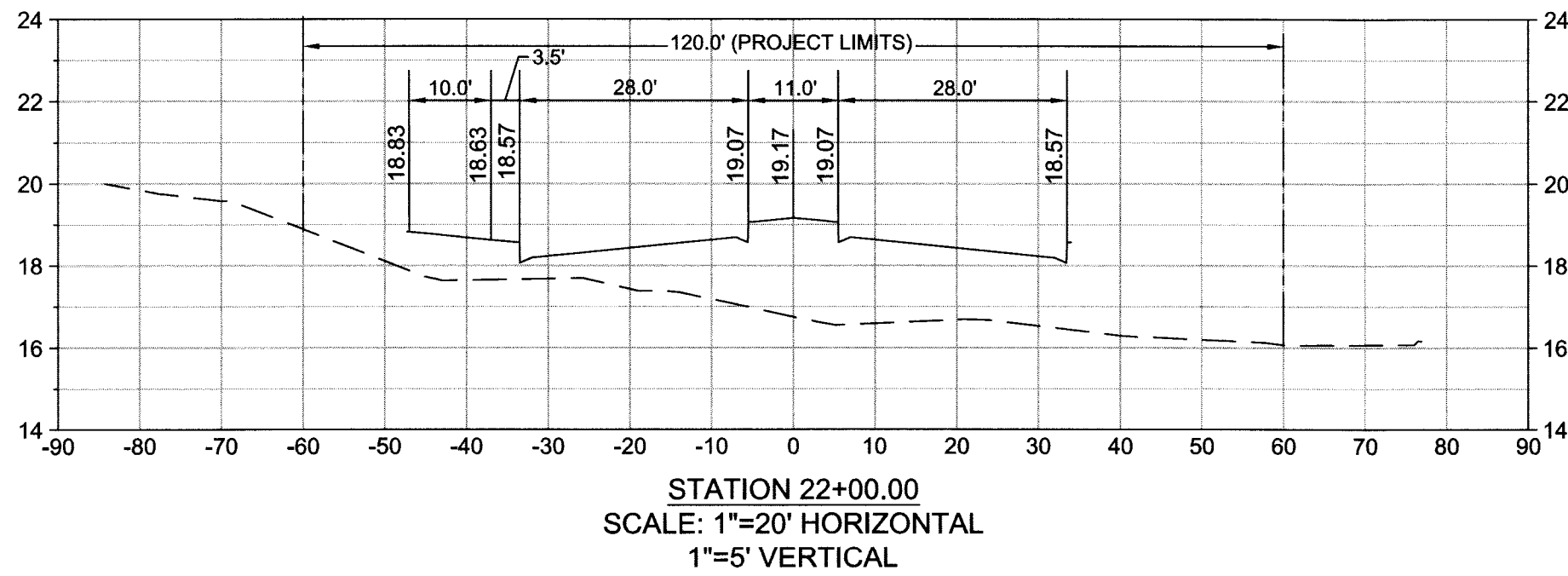
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PROJECT
SHEET TITLE
BISCAYNE LANDING BOULEVARD EXTENSION
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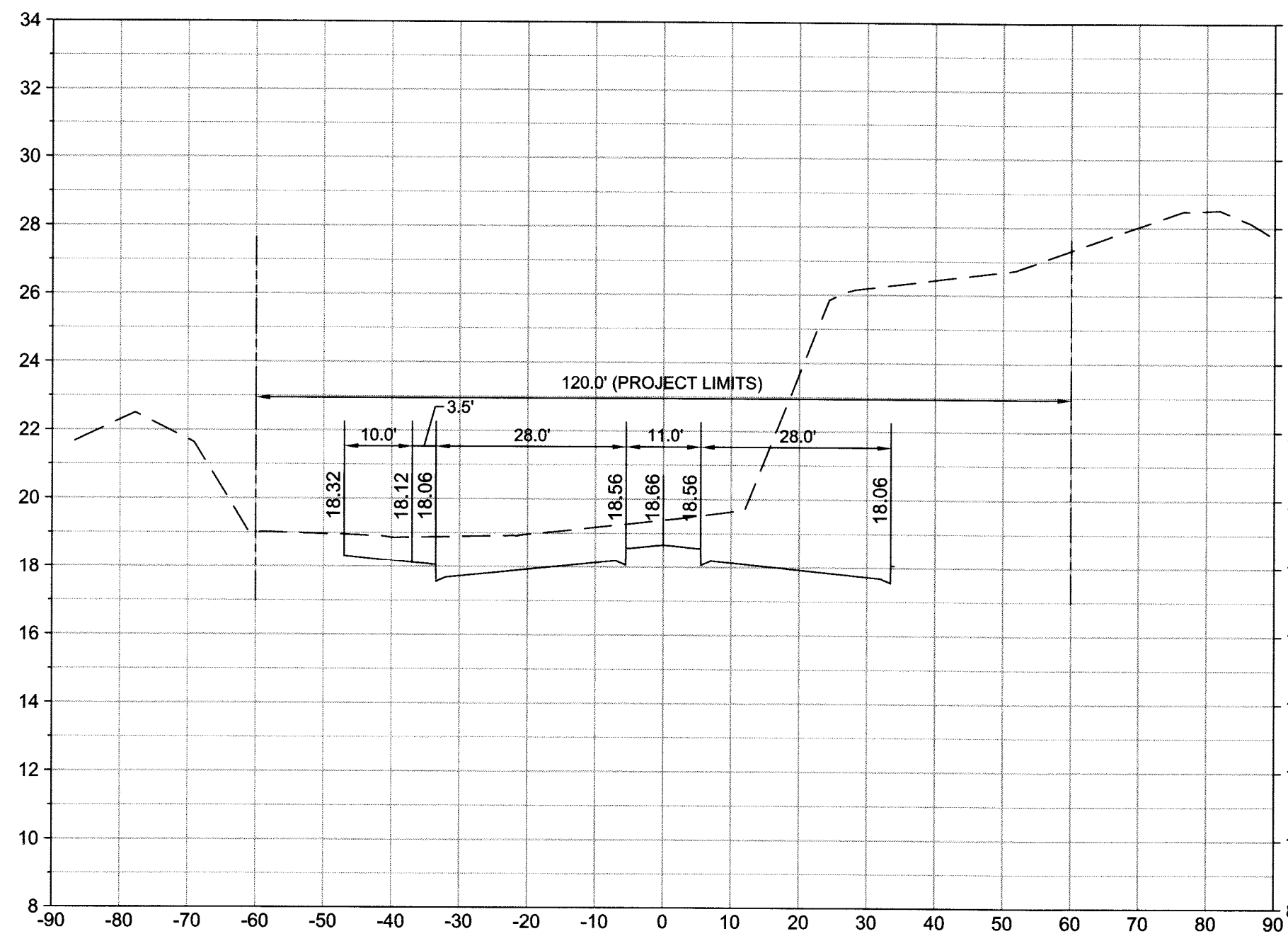
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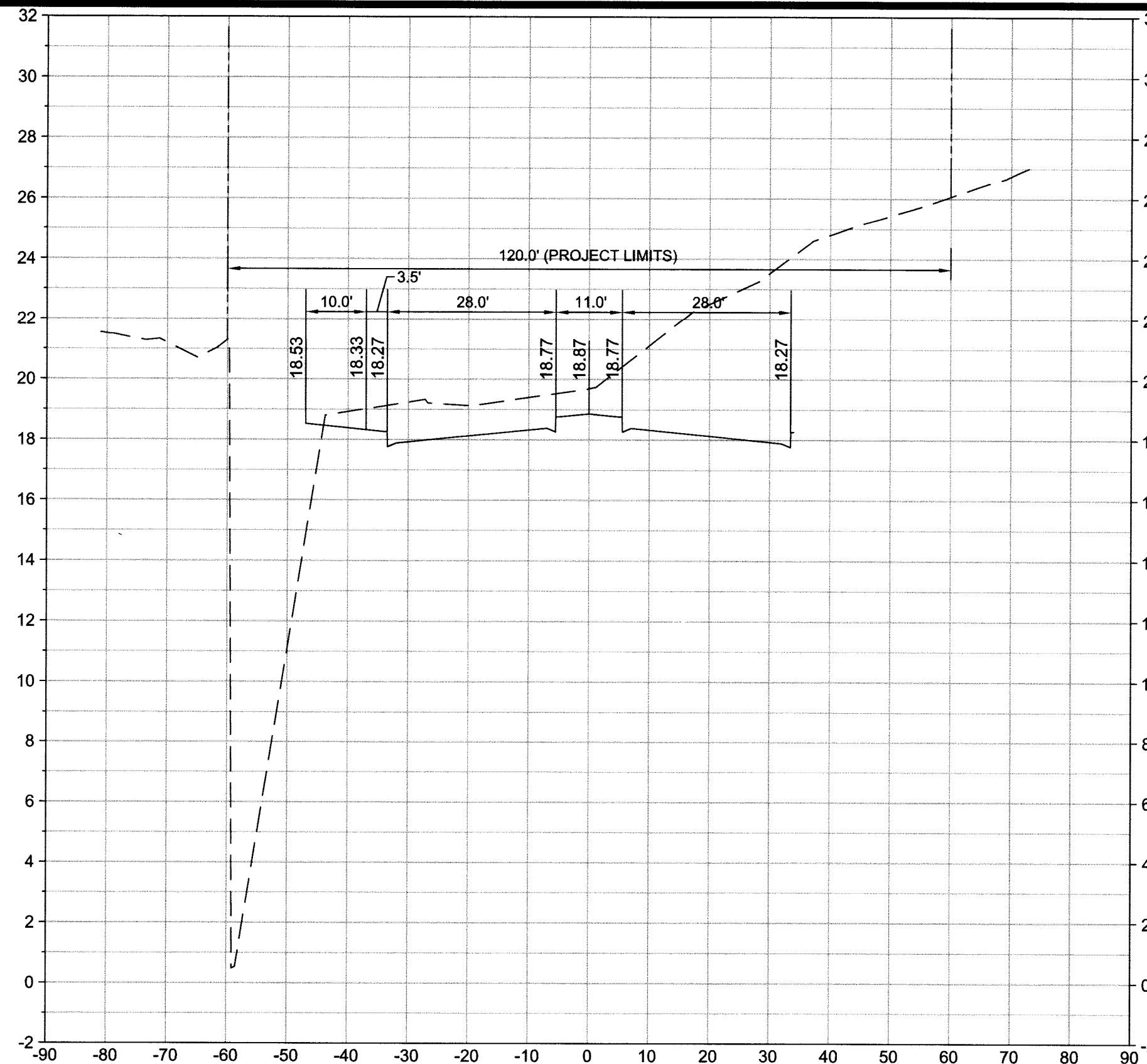
PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE
CROSS-SECTIONS

SHEET
C-40

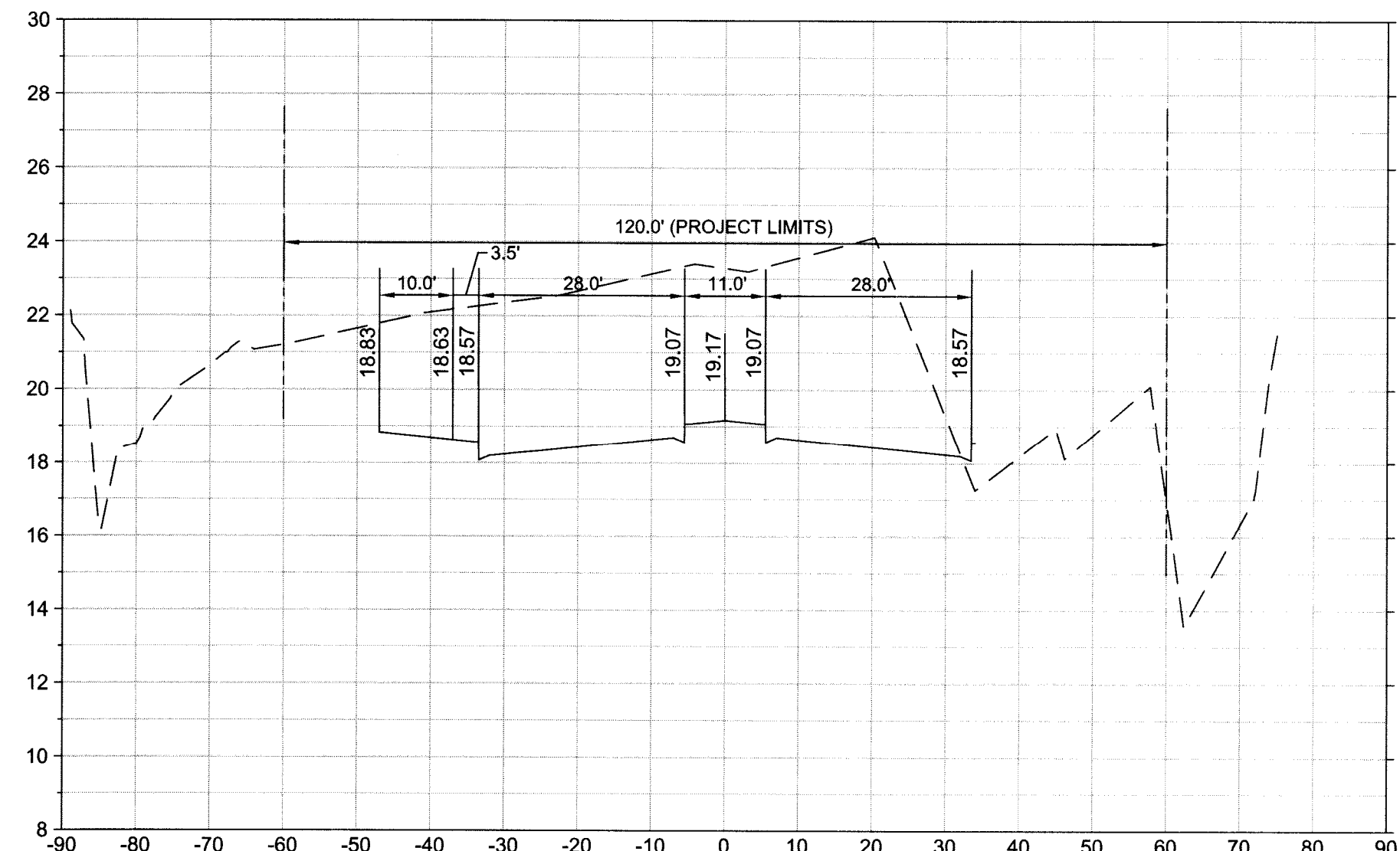
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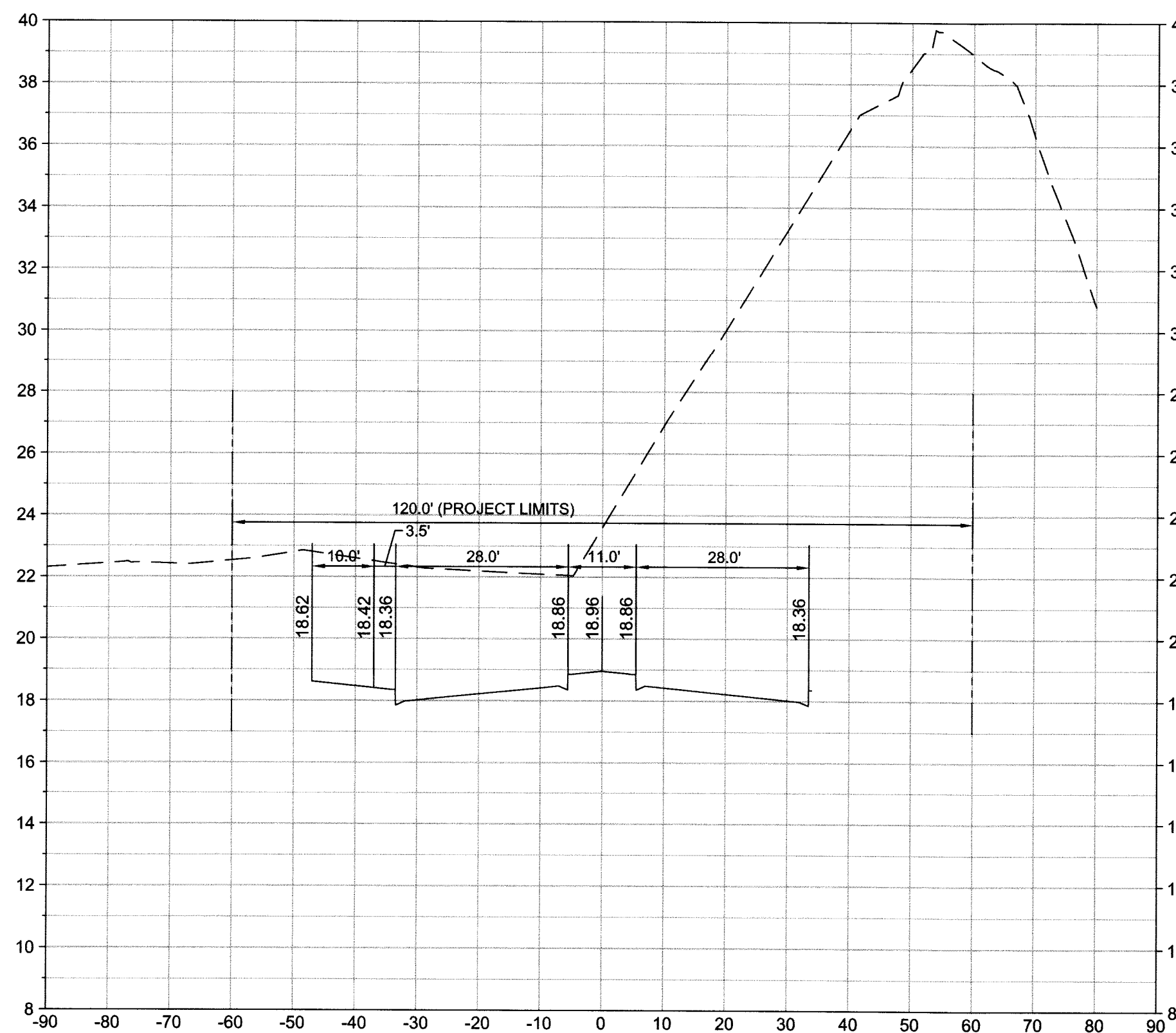
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1"=5' VERTICAL



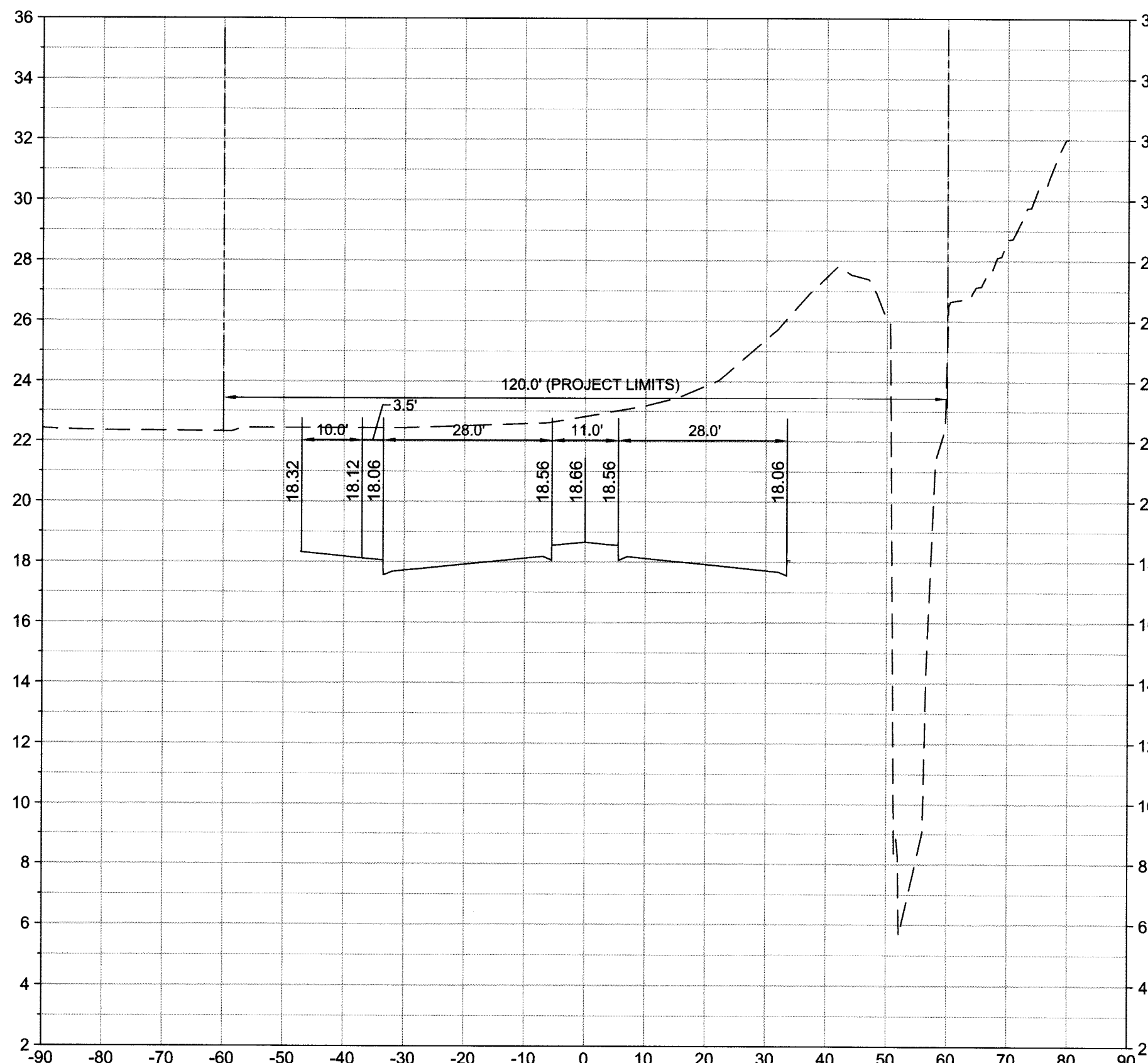
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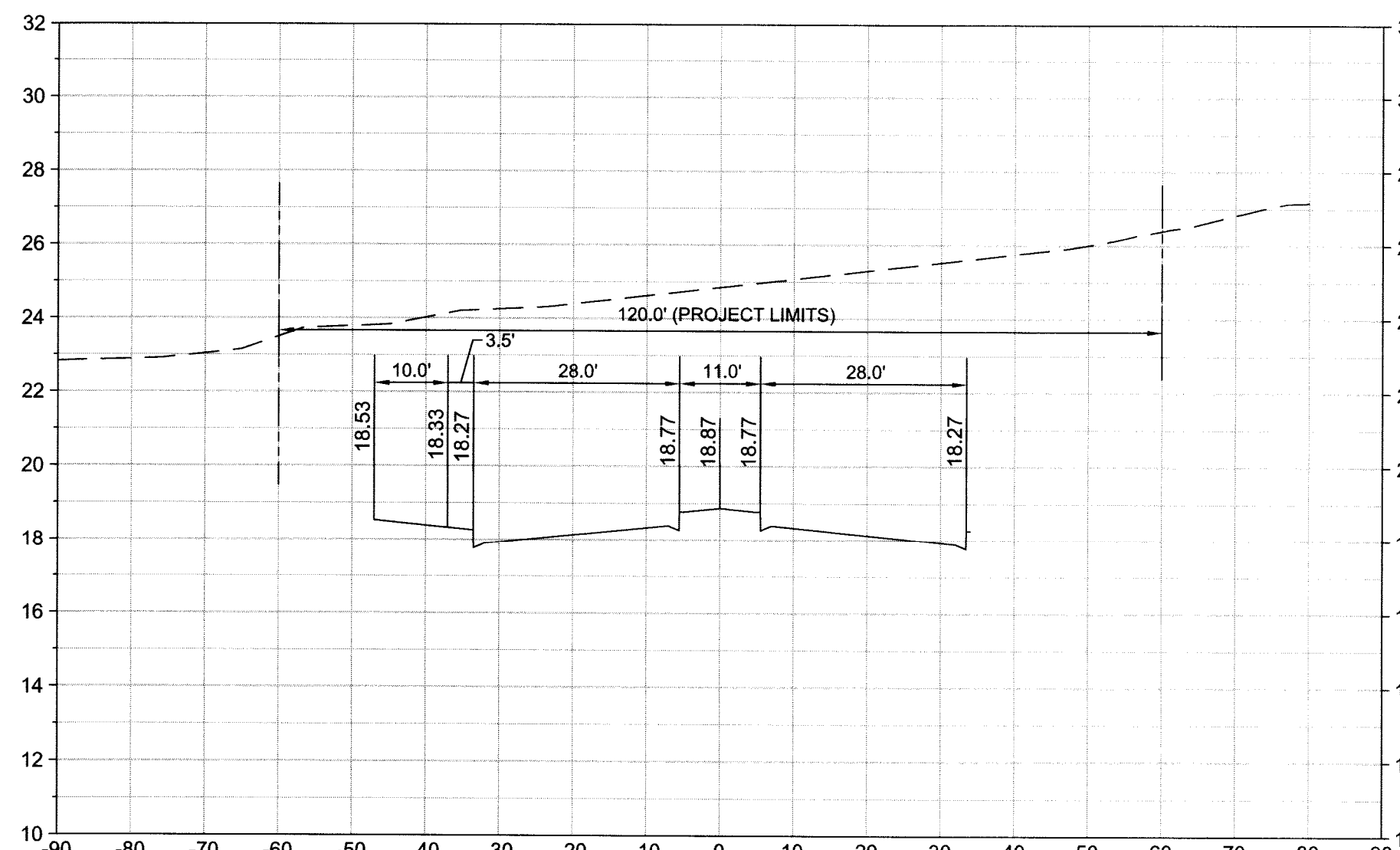
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1"=5' VERTICAL



STATION 31+00.00
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1"=5' VERTICAL



STATION 32+00.00
SCALE: 1"=20' HORIZONTAL
1"=5' VERTICAL

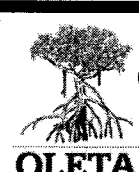


STATION 33+00.00
SCALE: 1"=20' HORIZONTAL
1"=5' VERTICAL

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PROJECT

BISCAYNE LANDING BOULEVARD EXTENSION

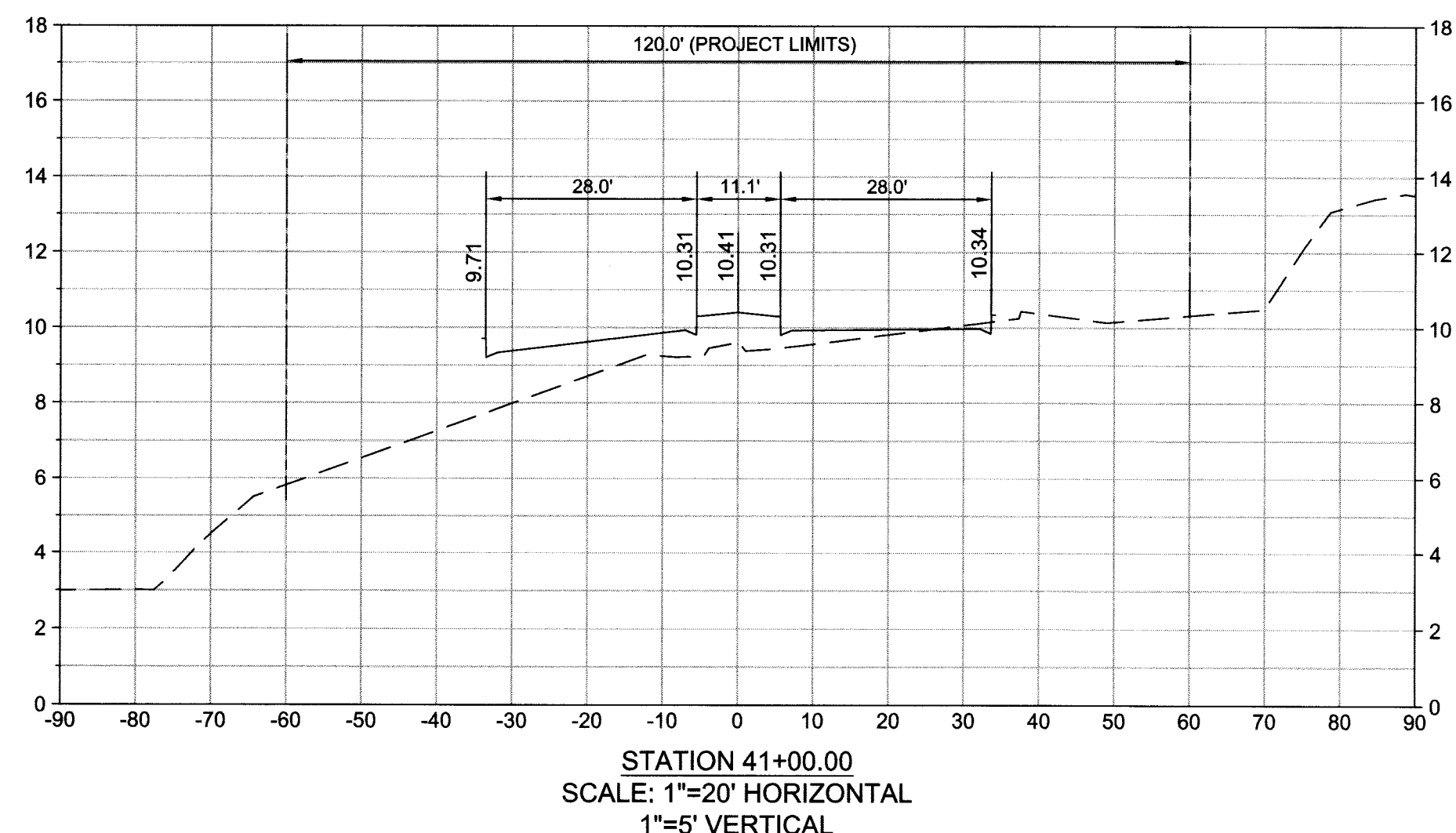
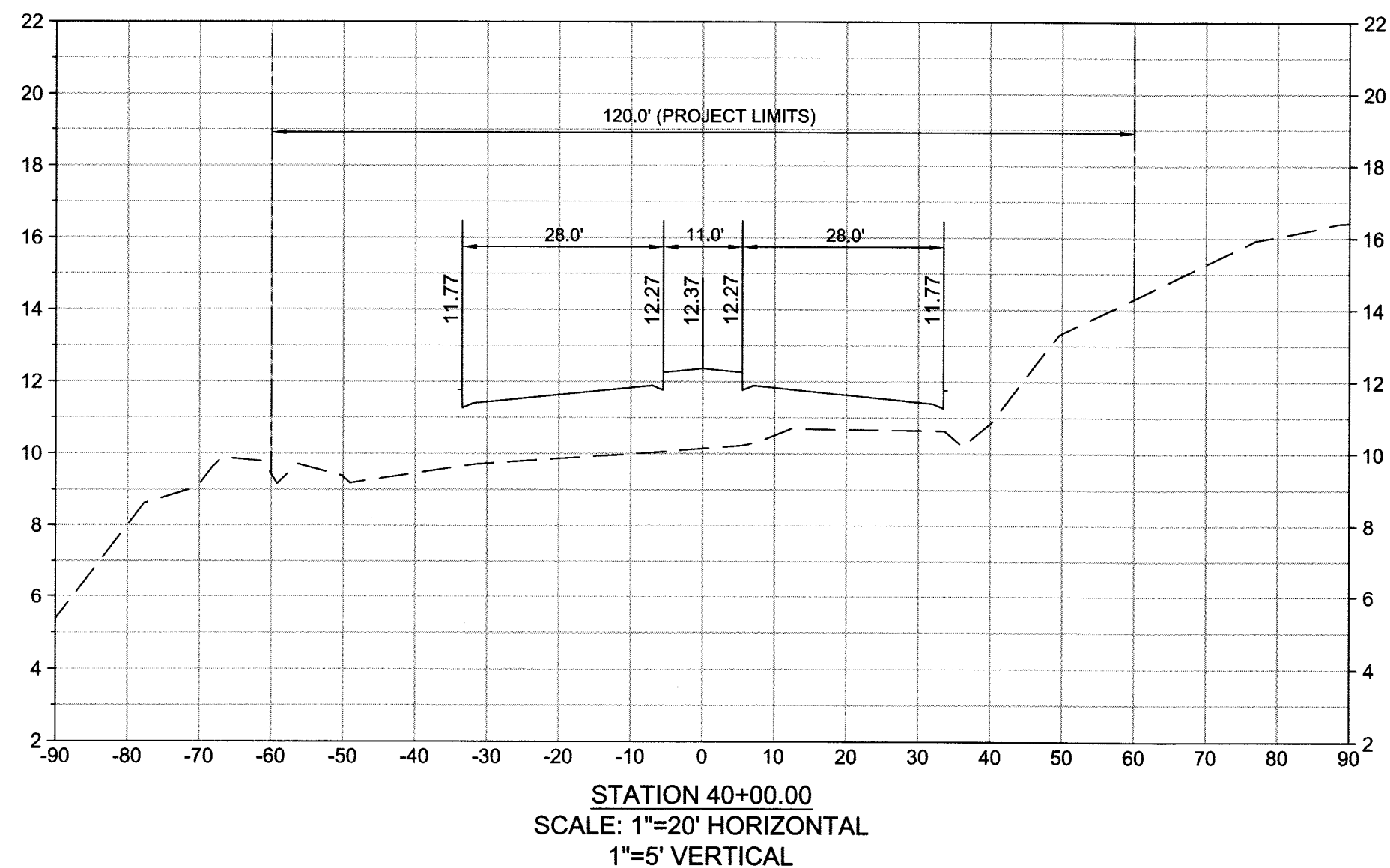
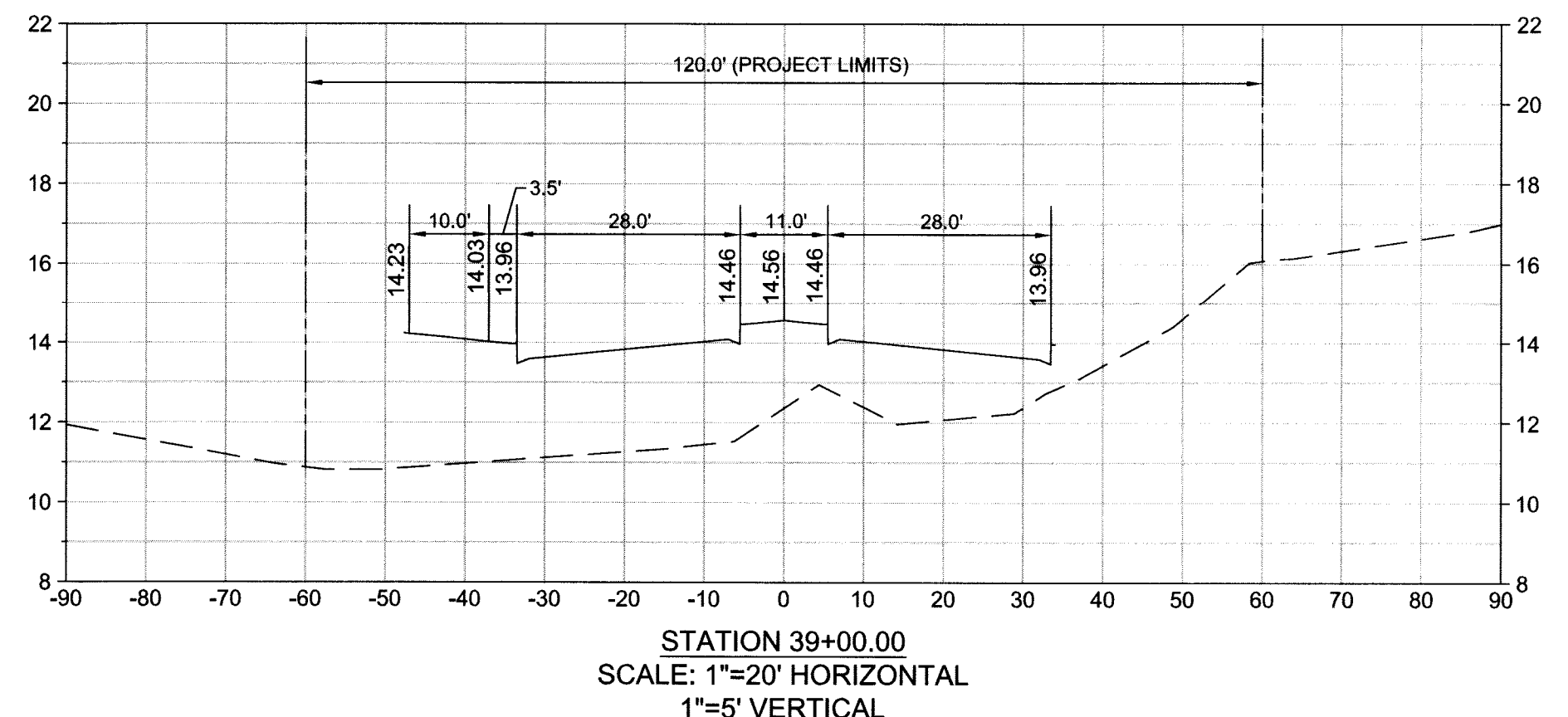
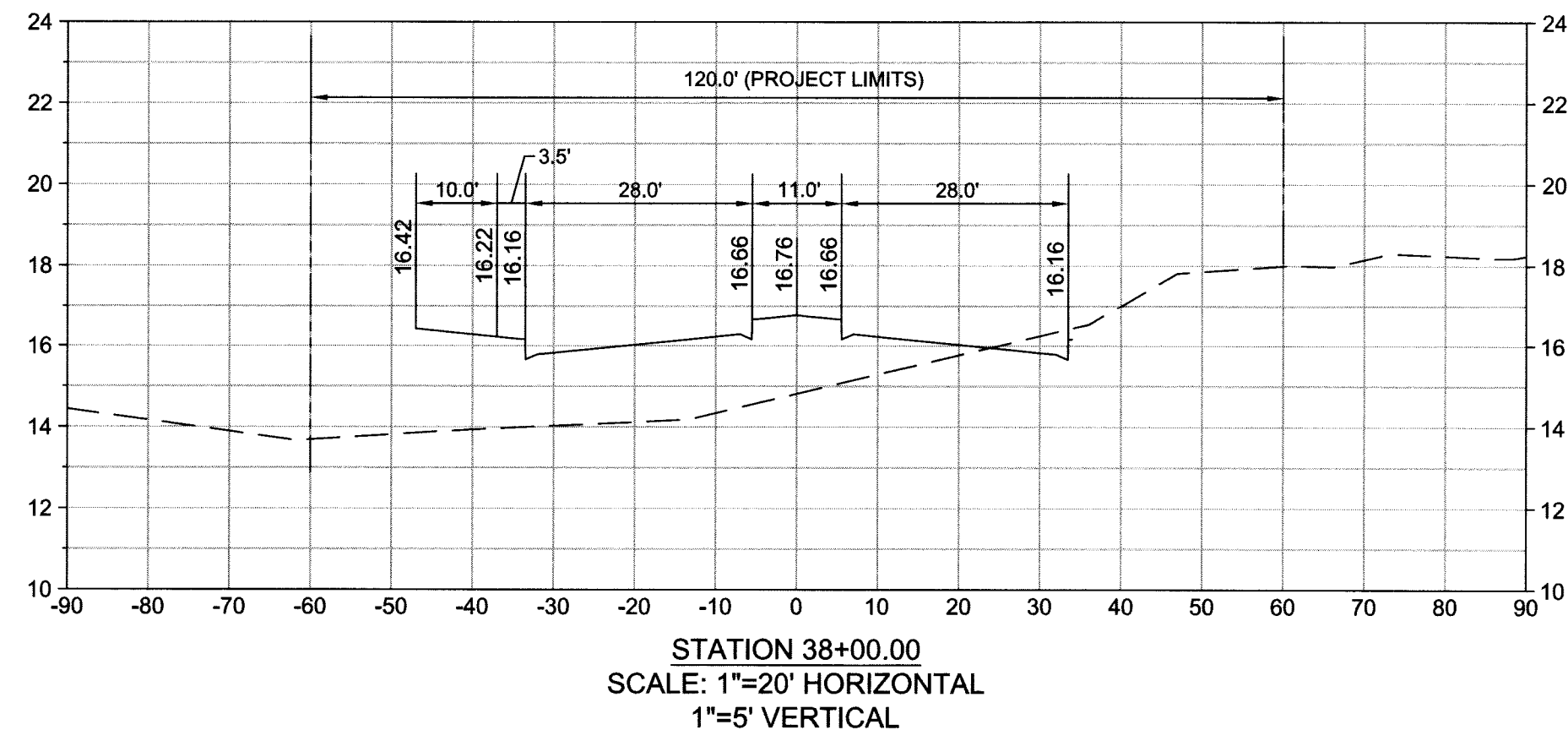
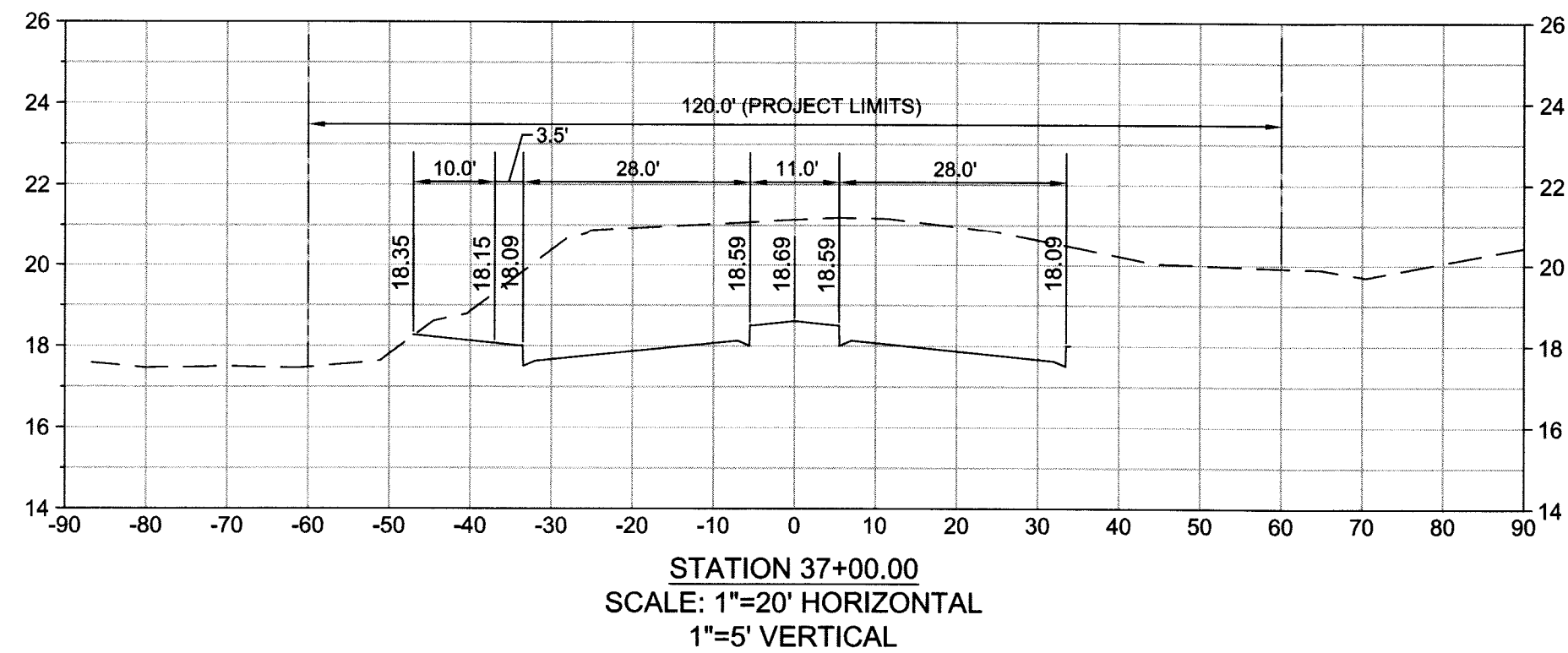
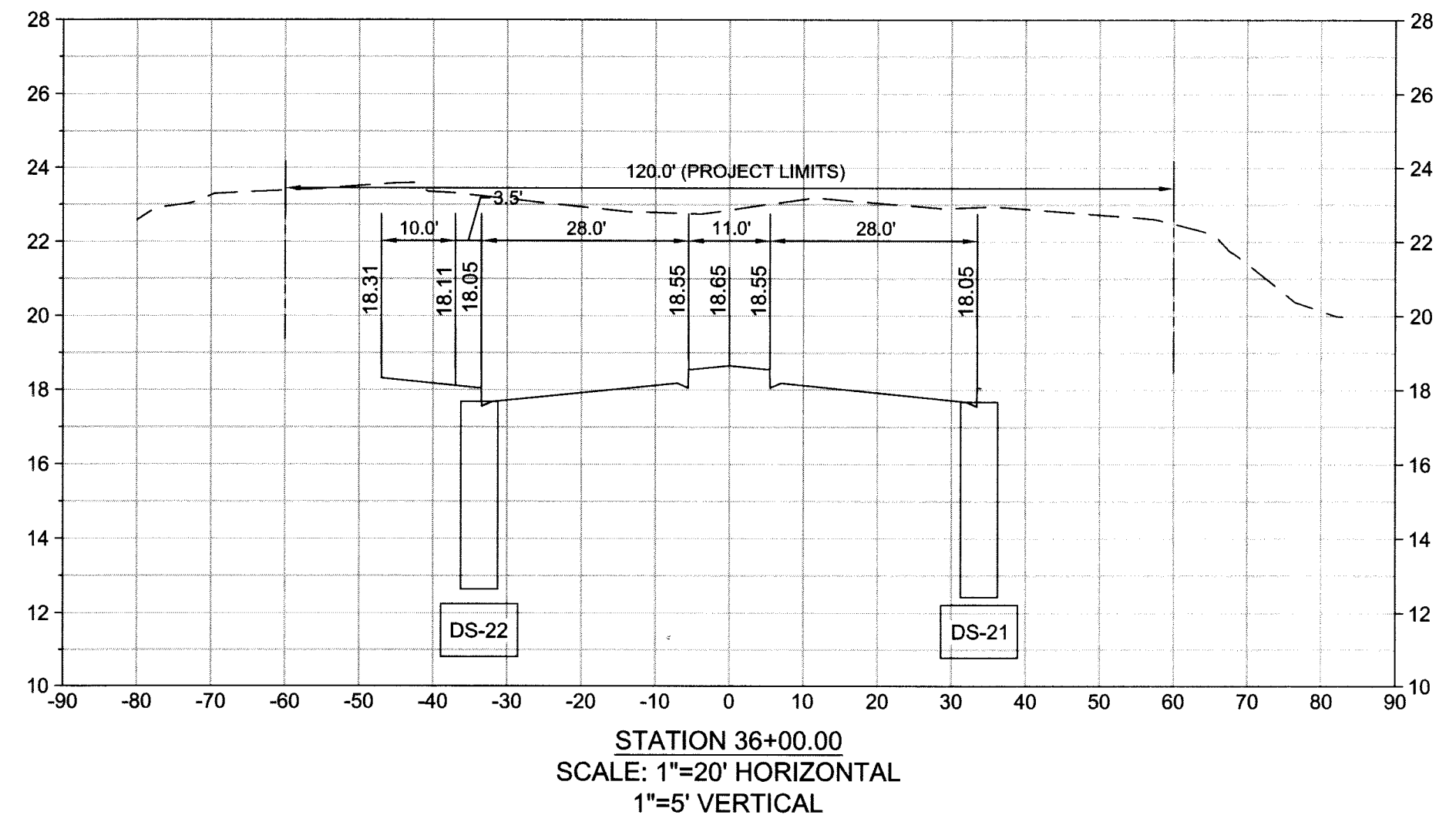
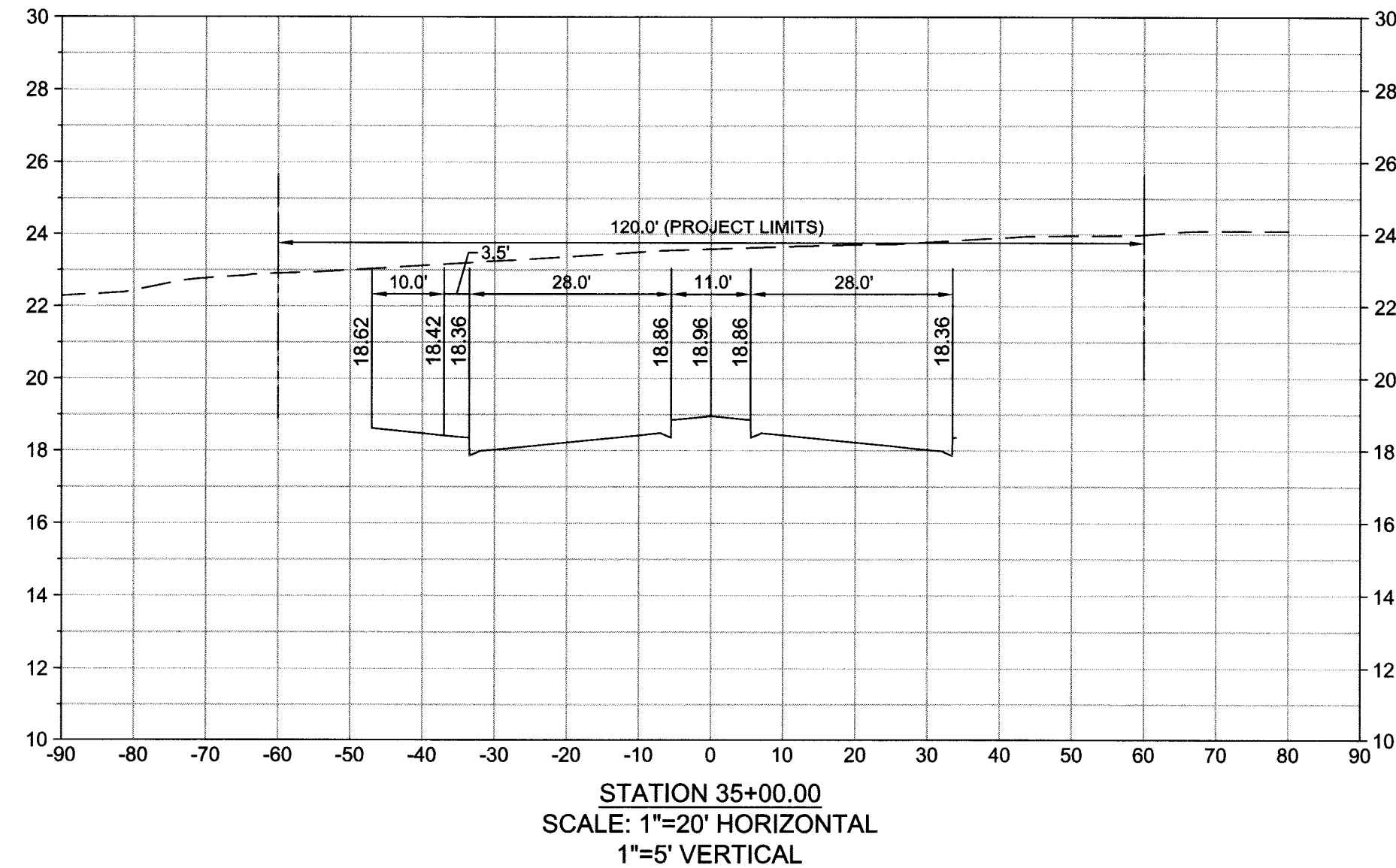
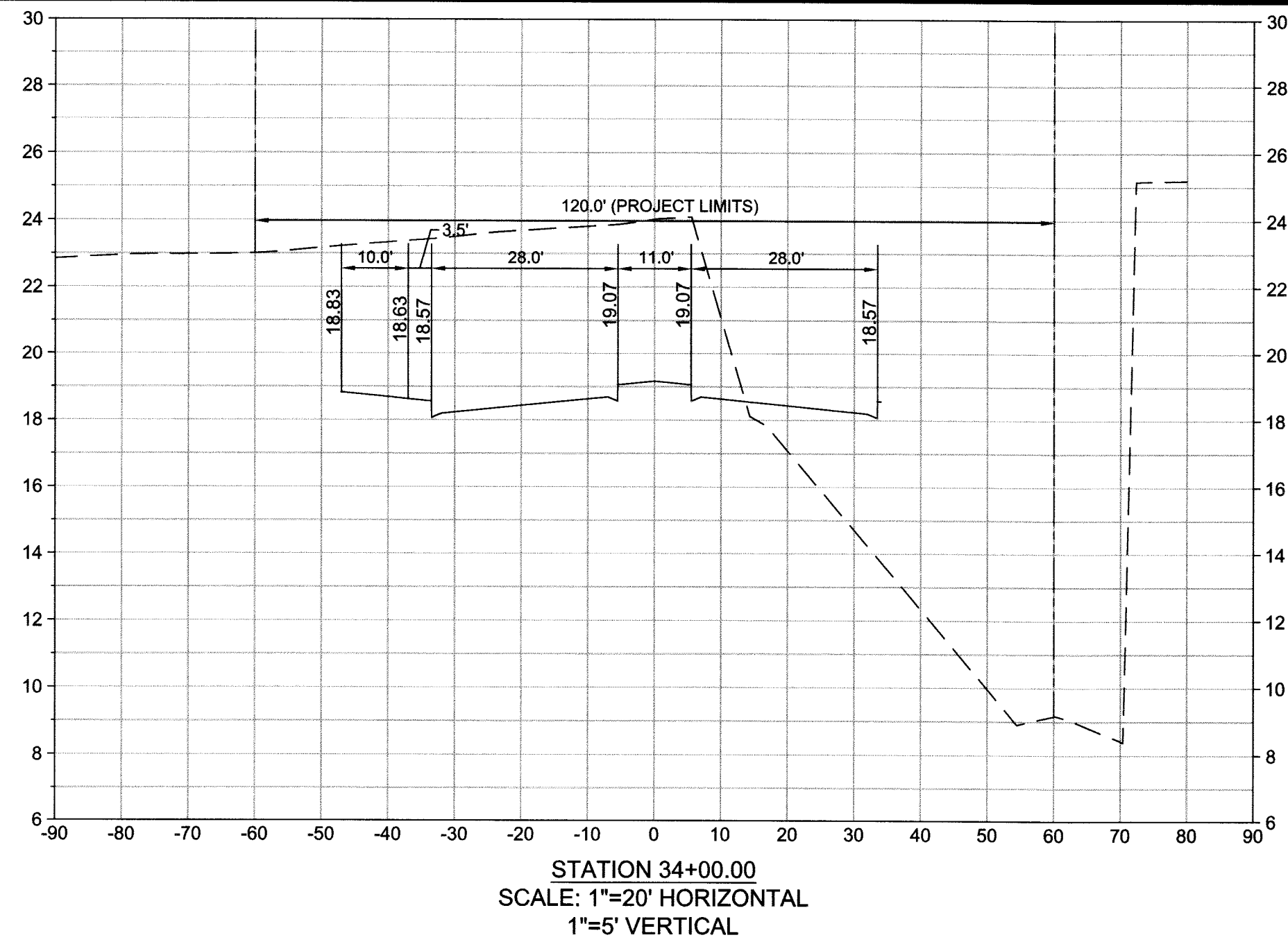
SHEET TITLE

CROSS-SECTIONS

SHEET

C-41

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PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **CROSS-SECTIONS**

SHEET
C-42

User: 23182 D:\CIVIL\PROJECTS\00032762 Biscayne Landing\PLANS\SHEETS\Summary of Drainage Structures.dwg 08/29/2013 11:30:35 AM

STORM STRUCTURE TABLE							
NAME	DESCRIPTION	BOTTOM	ELEVATION (RIM/FLOW/EOP)	INVERTS	SUMP	STATION	OFFSET
CS-01	CONTROL STRUCTURE W/ DRAINAGE WELL		11.00		0.0'	5+30.95	87.24' L
CS-02	CONTROL STRUCTURE W/ DRAINAGE WELL		11.00		0.0'	7+36.97	89.01' L
CS-03	CONTROL STRUCTURE W/ DRAINAGE WELL		11.00		0.0'	8+68.45	113.02' L
CS-04	CONTROL STRUCTURE W/ DRAINAGE WELL		11.00		0.0'	21+54.46	155.98' R
DS-01	CURB INLET		9.31	INV IN(S)= 4.44 INV OUT(E)= 4.44	0.0'	1+00.00	39.25' L
DS-02	CURB INLET		9.30	INV IN(S)= 4.83 INV OUT(N)= 4.83	0.0'	1+00.00	39.25' R
DS-03	TYPE C INLET		7.02	INV OUT(N)= 4.96	0.0'	1+00.00	64.29' R
DS-04	CURB INLET		9.36	INV IN(S)= 5.98 INV OUT(N)= 5.98	0.0'	5+00.00	39.54' L
DS-05	CURB INLET		9.36	INV OUT(N)= 6.38	0.0'	5+00.00	39.25' R
DS-06	CURB INLET		10.61	INV IN(S)= 7.30 INV OUT(N)= 7.30	0.0'	6+85.00	39.25' L
DS-07	CURB INLET		10.61	INV OUT(N)= 7.69	0.0'	6+85.00	39.25' R
DS-08	CURB INLET		12.79	INV IN(SW)= 7.86 INV IN(SE)= 7.86 INV OUT(N)= 7.86	0.0'	9+75.48	38.95' L
DS-09	CURB INLET		14.86	INV IN(SW)= 9.31 INV IN(SE)= 9.56 INV OUT(NW)= 9.31	0.0'	12+50.44	35.59' L
DS-10	CURB INLET		16.17	INV IN(SW)= 10.62 INV IN(SE)= 10.62 INV OUT(NW)= 10.62	0.0'	14+25.02	33.75' L
DS-11	CURB INLET		17.67	INV IN(S)= 11.32 INV IN(E)= 11.32 INV OUT(W)= 11.32	0.0'	16+25.00	33.75' L
DS-12	CURB INLET		17.64	INV IN(SE)= 12.90 INV OUT(SW)= 12.90	0.0'	20+15.00	33.75' L
DS-13	CURB INLET		17.64	INV OUT(NW)= 13.10	0.0'	20+15.00	33.75' R
DS-14	CURB INLET		12.78	INV OUT(NE)= 8.25	0.0'	9+74.49	38.95' R
DS-15	CURB INLET		14.85	INV OUT(NE)= 10.30	0.0'	12+49.53	35.62' R
DS-16	CURB INLET		16.17	INV OUT(NE)= 11.63	0.0'	14+25.00	33.75' R

STORM STRUCTURE TABLE							
NAME	DESCRIPTION	BOTTOM	ELEVATION (RIM/FLOW/EOP)	INVERTS	SUMP	STATION	OFFSET
DS-17	CURB INLET		17.67	INV OUT(N)= 13.13	0.0'	16+25.00	33.75' R
DS-18	CURB INLET		17.64	INV IN(W)= 7.85 INV IN(N)= 8.35 INV OUT(S)= 7.85	0.0'	24+15.00	33.75' R
DS-19	CURB INLET		17.64	INV IN(W)= 8.35 INV IN(N)= 9.55 INV OUT(S)= 9.55	0.0'	28+15.00	33.75' R
DS-20	CURB INLET		17.64	INV IN(W)= 11.26 INV IN(N)= 11.76 INV OUT(S)= 11.26	0.0'	32+15.01	33.75' R
DS-21	CURB INLET		17.68	INV IN(SW)= 12.94 INV OUT(SE)= 12.94	0.0'	36+00.00	33.80' R
DS-22	CURB INLET		17.68	INV OUT(NE)= 13.14	0.0'	36+00.00	33.75' L
DS-23	CURB INLET		17.64	INV OUT(E)= 12.10	0.0'	24+15.00	33.75' L
DS-24	CURB INLET		17.64	INV OUT(E)= 12.10	0.0'	28+15.00	33.75' L
DS-25	CURB INLET		17.64	INV OUT(E)= 13.64	0.0'	32+15.00	33.75' L
DS-26	CURB INLET		10.75	INV OUT(E)= 2.92 INV OUT(W)= 2.92	0.0'	40+29.27	33.75' L
DS-27	CURB INLET		10.75	INV IN(W)= 5.50	0.0'	40+29.26	33.78' R
MES-01	MITERED END SECTION		--	INV IN(W)= 3.50	--	3+12.00	90.76' L
MES-02	MITERED END SECTION		--	INV IN(S)= 3.50	--	5+00.01	75.37' L
MES-03	MITERED END SECTION		--	INV IN(S)= 3.50	--	6+84.81	79.64' L
MES-04	MITERED END SECTION		--	INV IN(S)= 3.50	--	9+41.76	81.56' L
MES-05	MITERED END SECTION		--	INV IN(N)= 3.50	--	22+33.48	81.46' R
MH-01	MANHOLE		16.63	INV IN(E)= 10.94 INV OUT(NW)= 10.94	0.0'	14+83.36	35.45' L
MH-02	MANHOLE		18.09	INV IN(NE)= 11.66 INV OUT(W)= 11.66	0.0'	17+53.27	35.57' L
MH-03	MANHOLE		17.98	INV IN(NE)= 12.59 INV OUT(SW)= 12.09	0.0'	19+12.46	35.57' L
MH-04	MANHOLE		18.45	INV IN(N)= 10.82 INV OUT(S)= 10.32	0.0'	30+70.18	38.09' R

STORM STRUCTURE TABLE							
NAME	DESCRIPTION	BOTTOM	ELEVATION (RIM/FLOW/EOP)	INVERTS	SUMP	STATION	OFFSET
MH-05	MANHOLE		18.50	INV IN(NW)= 12.27 INV OUT(S)= 12.27	0.0'	33+76.36	36.99' R
MH-06	MANHOLE		10.96	INV IN(W)= 2.98 INV OUT(N)= 2.94 INV OUT(E)= 3.83	0.0'	40+29.27	21.83' L

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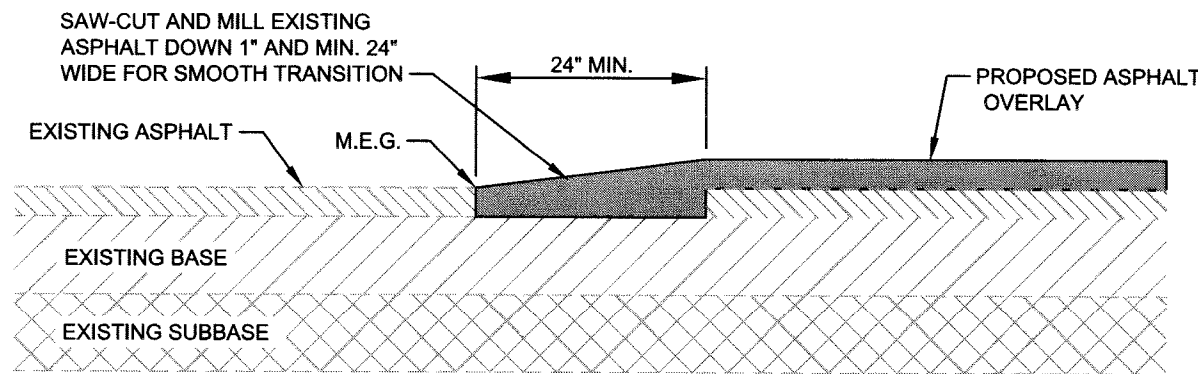
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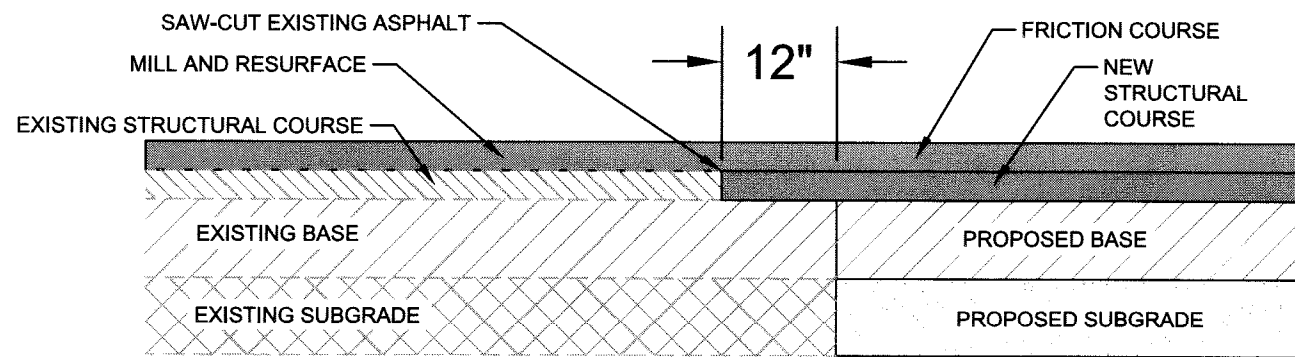
PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **SUMMARY OF DRAINAGE STRUCTURES**

SHEET
C-43

\\atkins\projects\100032762 Biscayne Landing\PLANS\SHEETS\Paving and Drainage Details.dwg 08/29/2013 11:19:22 AM User: 23189



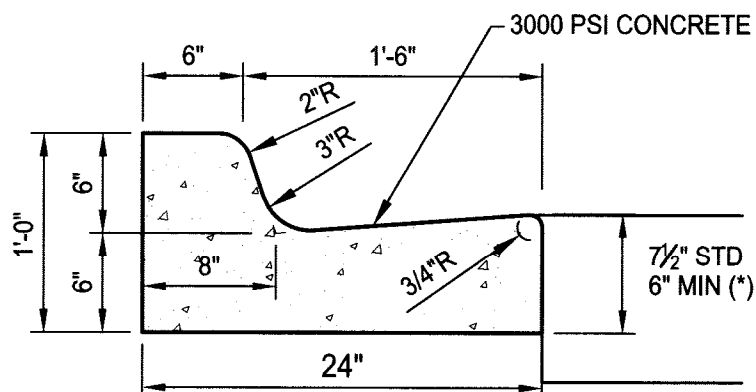
01 ASPHALT OVERLAY END SPLICE DETAIL
SCALE: NTS



NOTES:

1. PROVIDE ASPHALT SPLICE AT ALL TRANSITIONS BETWEEN NEW AND EXISTING PAVEMENT SECTIONS.
2. 12-INCH ASPHALT REMOVAL MAY VARY AT THE DISCRETION OF THE COUNTY INSPECTOR.
3. RESTORE EXISTING BASE TO ORIGINAL CONDITION OR BETTER.

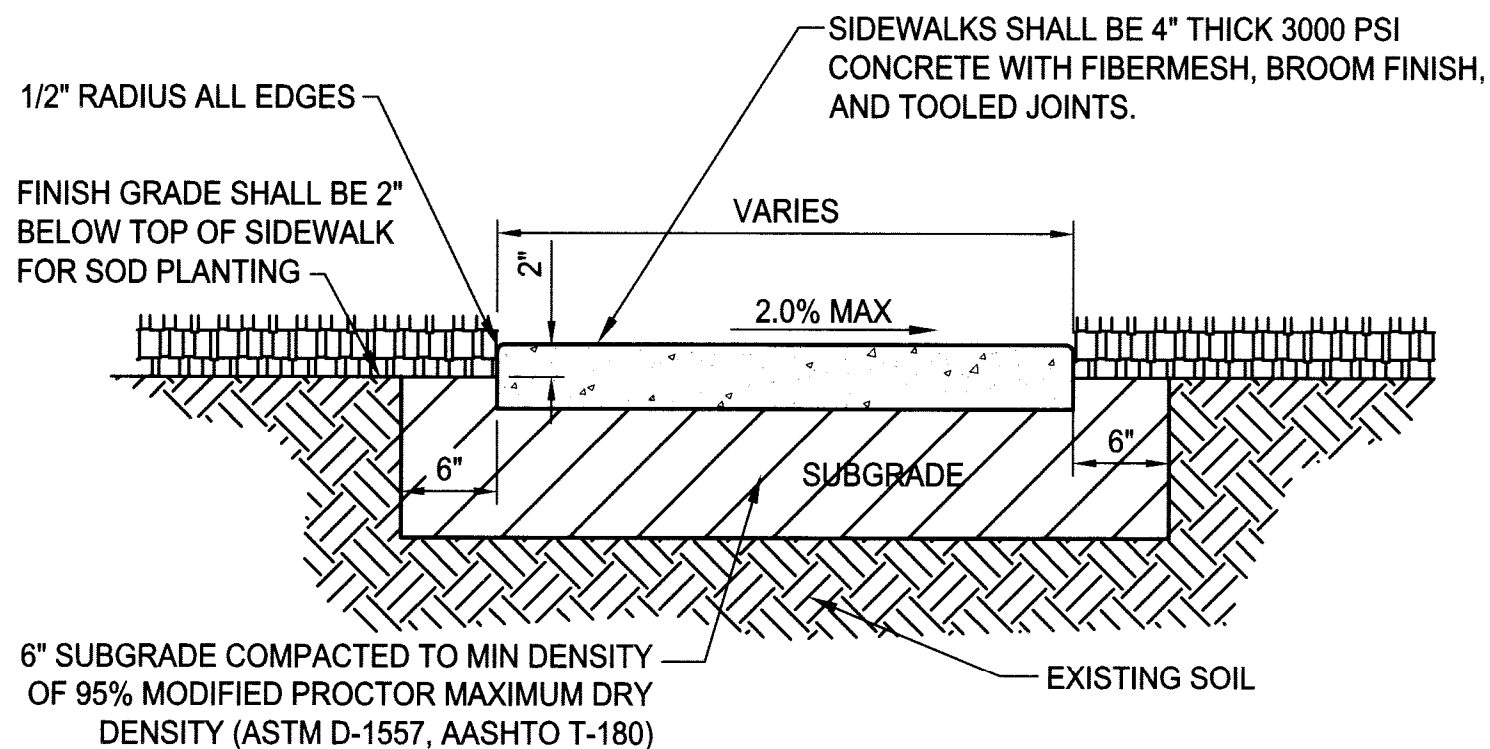
02 ASPHALT PAVEMENT EDGE SPLICE DETAIL
SCALE: NTS



GENERAL NOTES:

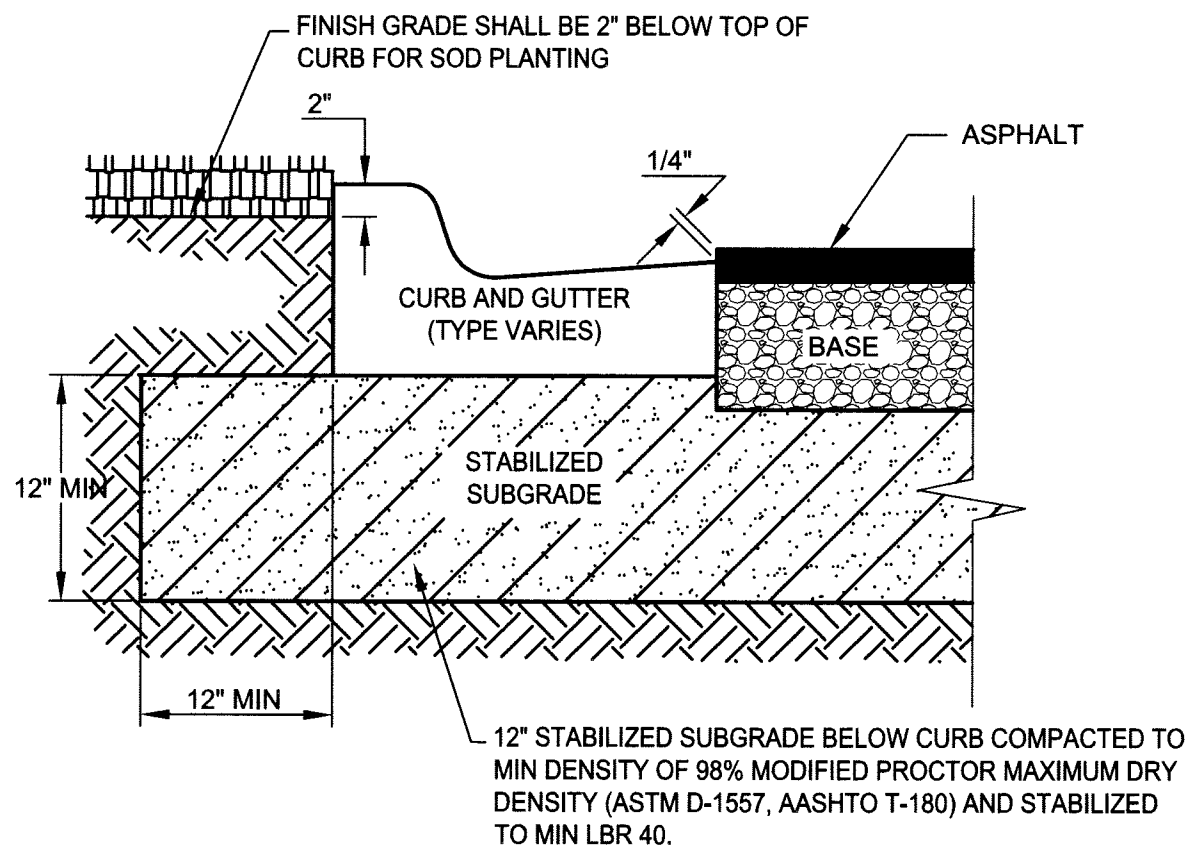
1. (*) WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6".
2. SEE FDOT INDEX 300, LATEST EDITION, FOR ADDITIONAL DETAILS RELATED TO USES WITH PAVEMENT TYPES AS WELL AS JOINT TYPES AND SPACING.

05 TYPE F CURB DETAIL
SCALE: NTS

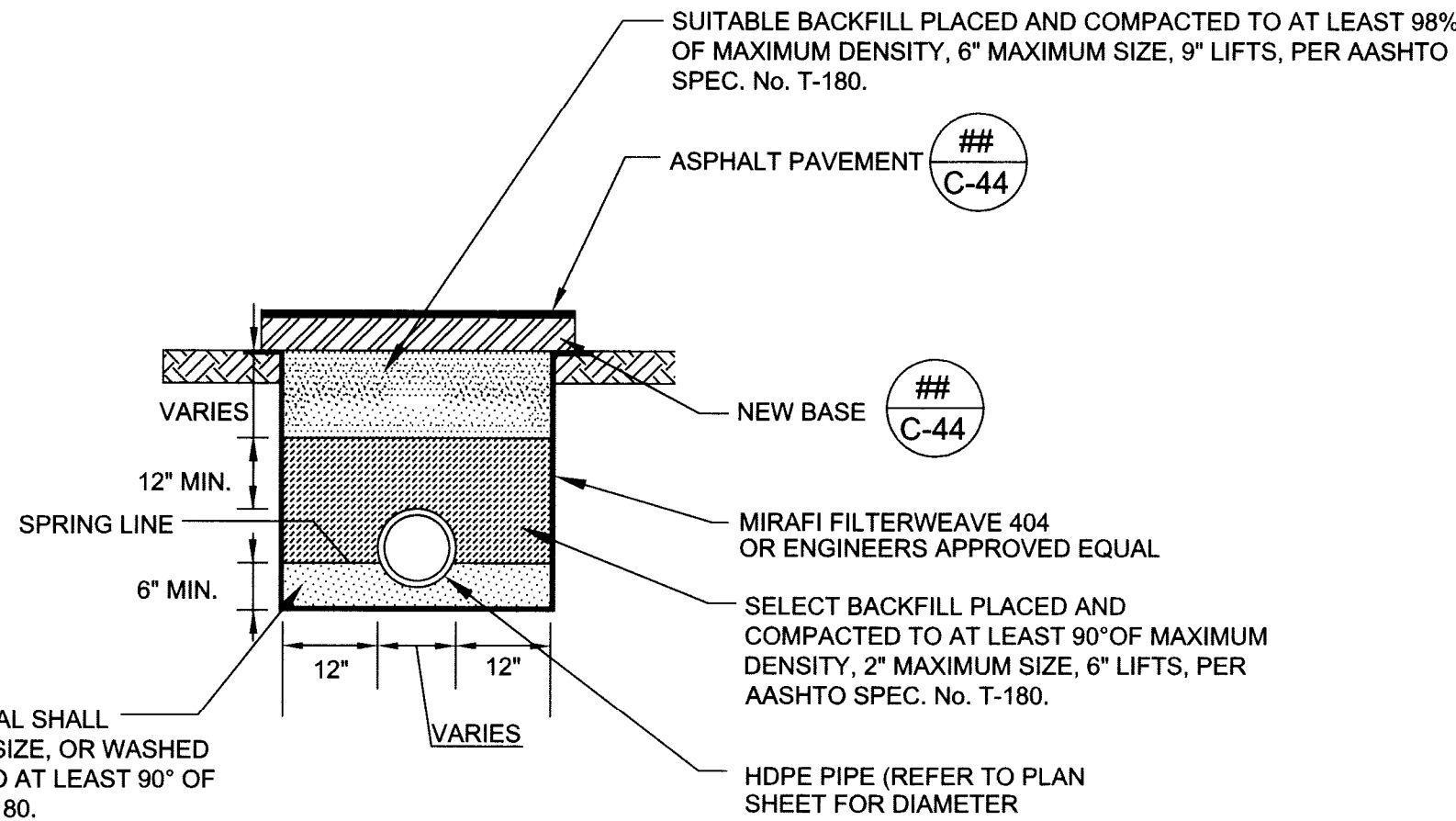


STANDARD

03 TYPICAL SIDEWALK DETAIL
SCALE: NTS



06 PAVEMENT EDGE WITH CURB AND GUTTER
SCALE: NTS



04 DRAINAGE TRENCH
SCALE: NTS

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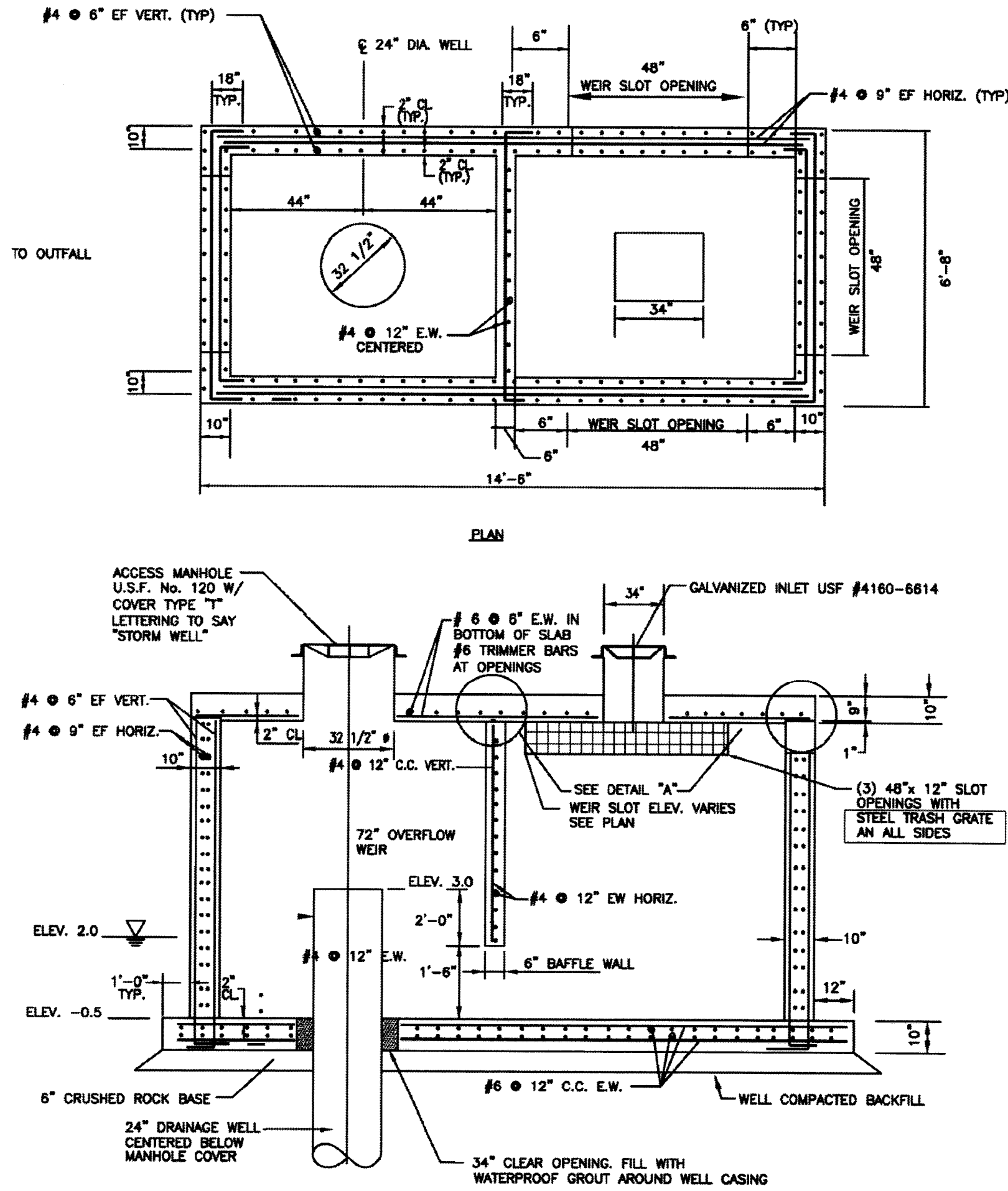
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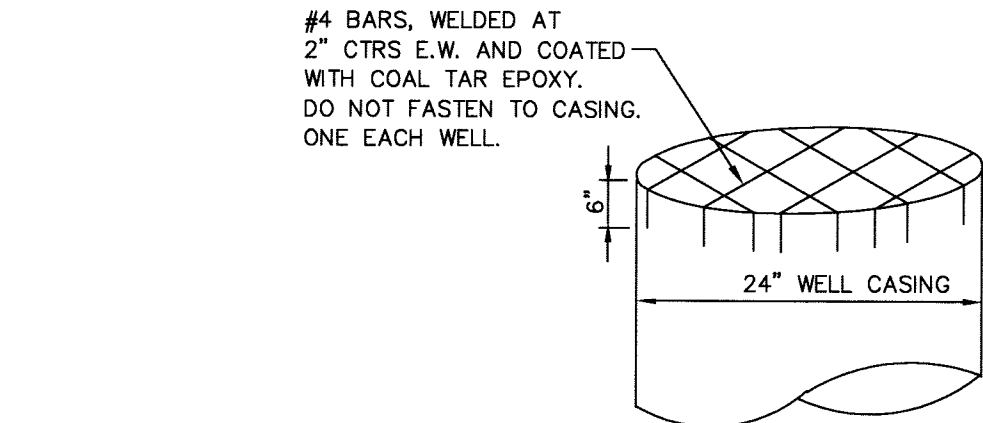
PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **PAVING AND DRAINAGE DETAILS**

SHEET
C-44

Unit: 20489
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08 CONTROL STRUCTURE AND WELL
SCALE:NTS

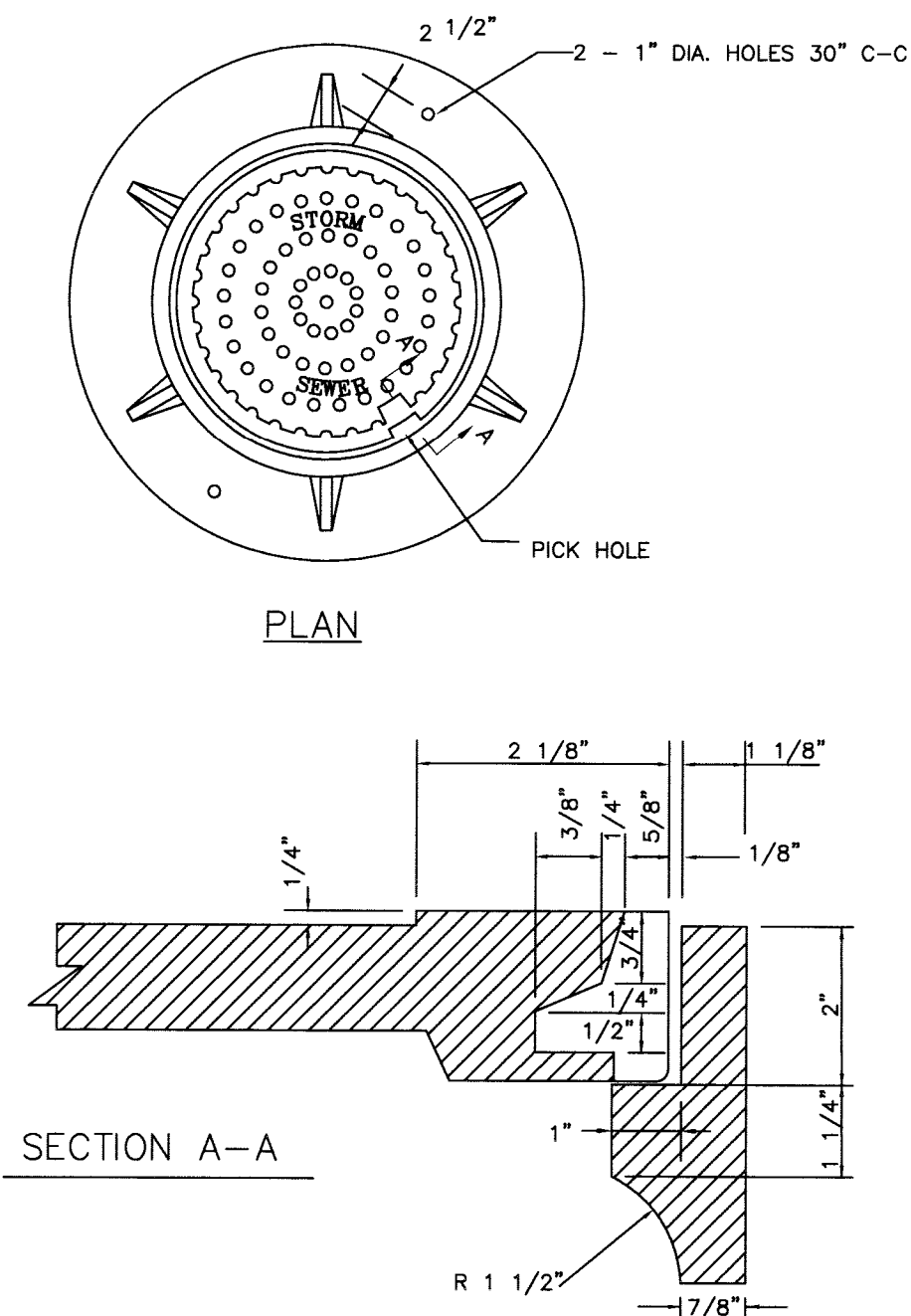


09 WELL COVER DETAIL
SCALE:NTS

DRAINAGE WELL SPECIFICATION:

1. WELL SHALL BE CONSTRUCTED BY A STATE OF FLORIDA LICENSED WATER WELL CONTRACTOR. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR THE CONSTRUCTION OF THE DRAINAGE WELL. UPON COMPLETION OF THE WELL THE CONTRACTOR SHALL SUBMIT ALL NECESSARY DOCUMENT TO THE APPROPRIATE REGULATORY AGENCY AND OBTAIN AN AUTHORIZATION OF USE.
2. WELL CASING SHALL BE PLAIN END, STANDARD WEIGHT 3/8" MINIMUM WALL THICKNESS, NEW BLACK STEEL PIPE CONFORMING TO ASTM A53. JOIN LENGTHS OF CASING BY WELDING OR THREADED COUPLINGS WHICH SHALL MEET THE STRENGTH REQUIREMENTS OF THE CASING. FIELD WELDS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 206. ALL JOINTS SHALL BE MADE WATERTIGHT.
3. INSTALL DRAINAGE WELL CASING AS SHOWN ON THE DRAWING. WELL CASING SHALL EITHER BE DRIVEN OR PLACED IN A DRILLED HOLE WHICH WILL ALLOW A MINIMUM OF 2 INCHES OF CEMENT GROUT AROUND THE OUTSIDE OF CASING. EXTEND THE CASING TO THE DEPTH AT WHICH THE GROUNDWATER CONTAINS NOT LESS THAN 10,000 PPM TOTAL DISSOLVED SOLIDS, AND 1500 PPM CHLORIDE. THE OPEN HOLE BELOW THE CASING TIP SHALL EXTEND A MINIMUM OF 10 FT. WHERE THE CASING IS PLACED IN A DRILLED HOLE, GROUT THE FULL LENGTH OF CASING.
4. DRILL THE WELL IN THE LOCATIONS INDICATED ON THE DRAWINGS. PROVIDE SUITABLE TANKS AND TRUCKS TO IMMEDIATELY REMOVE ALL DRILLING AND WELL WATER FROM THE SITE AND TO KEEP THE DRILLING AREA AS CLEAN AND FREE OF UNSIGHTLY DEBRIS AS POSSIBLE.
5. THE REQUIRED DISCHARGE CAPACITIES FOR THE WELLS SHALL BE 700 GPM PER FOOT OF HYDRAULIC HEAD. TOTAL MINIMUM DISCHARGE CAPACITY SHALL BE 2100 GPM WITH THE WATER COLUMN AT ELEVATION 5.0 FEET NGVD BASED IN A GROUND WATER LEVEL OF 2.0 FEET NGVD. AT THE LOSS OF DRILLING FLUID, THE CONTRACTOR SHALL TEST THE WELL FOR CAPACITY AND SHALL CONTINUE TO DRILL UNTIL AN ADEQUATE STRATUM IS FOUND.
6. GROUT CASINGS IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE. IN ONE CONTINUOUS OPERATION, FILLING COMPLETELY THE ANNULAR SPACE BETWEEN HOLE AND CASING FROM THE BOTTOM OF THE CASING UP TO THE TOP OF THE GROUND. UNLESS OTHERWISE SPECIFIED, THE METHOD USED SHALL BE ONE OF THOSE DESCRIBED IN AWWA A100, SECTION A1-8.4 - "GROUTING OF ANNULAR SPACE SURROUNDING PROTECTIVE CASING" PROVIDED THERE IS NO CONFLICT WITH REQUIREMENTS OF THESE SPECIFICATIONS. AFTER CEMENTING, THE CASING AND WELL, MUST REMAIN UNDISTURBED FOR AT LEAST 48 HOURS FOR SETTING UP OF THE CEMENT.

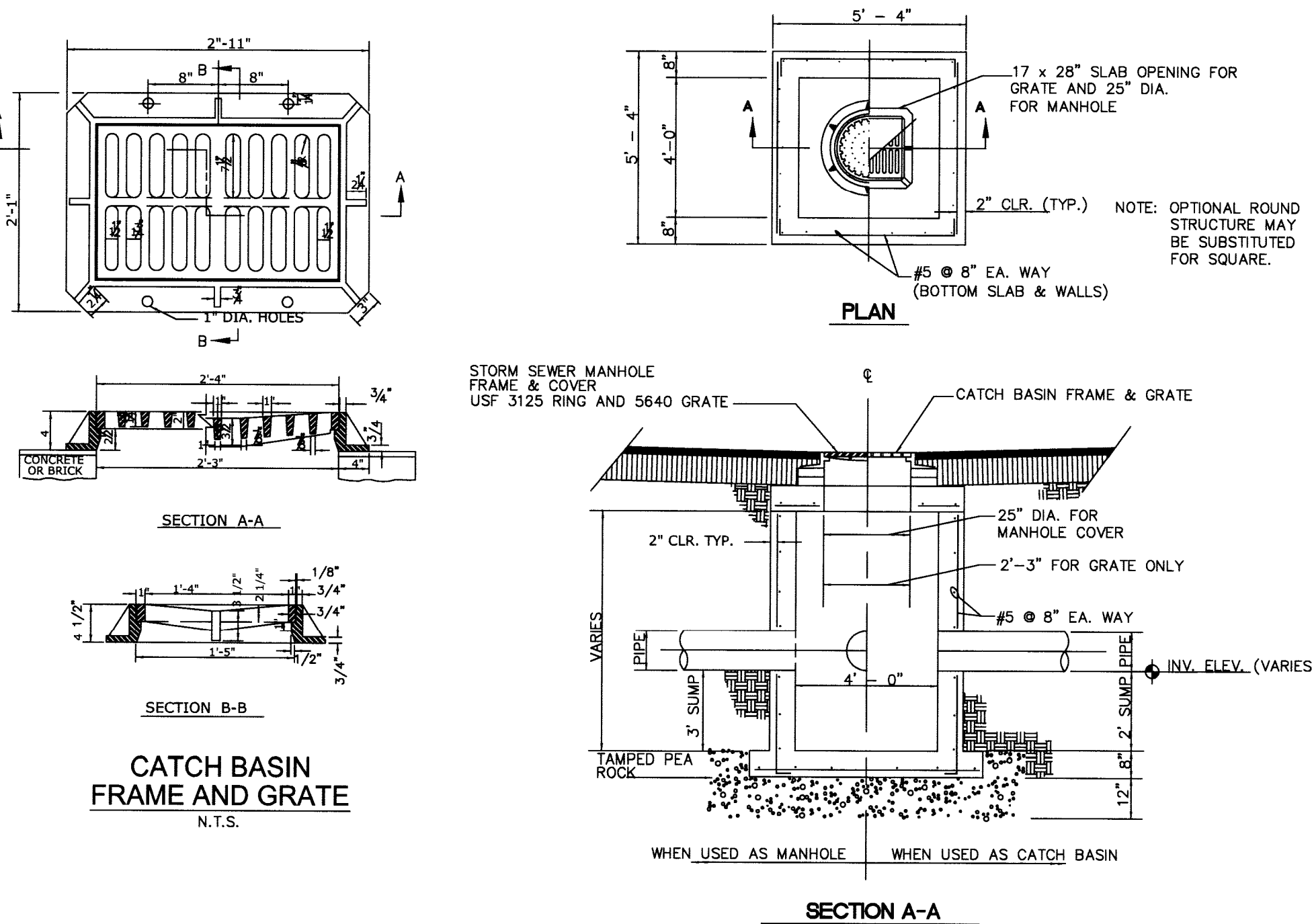
10 DRAINAGE WELL SPECIFICATIONS
SCALE:NTS



NOTES:

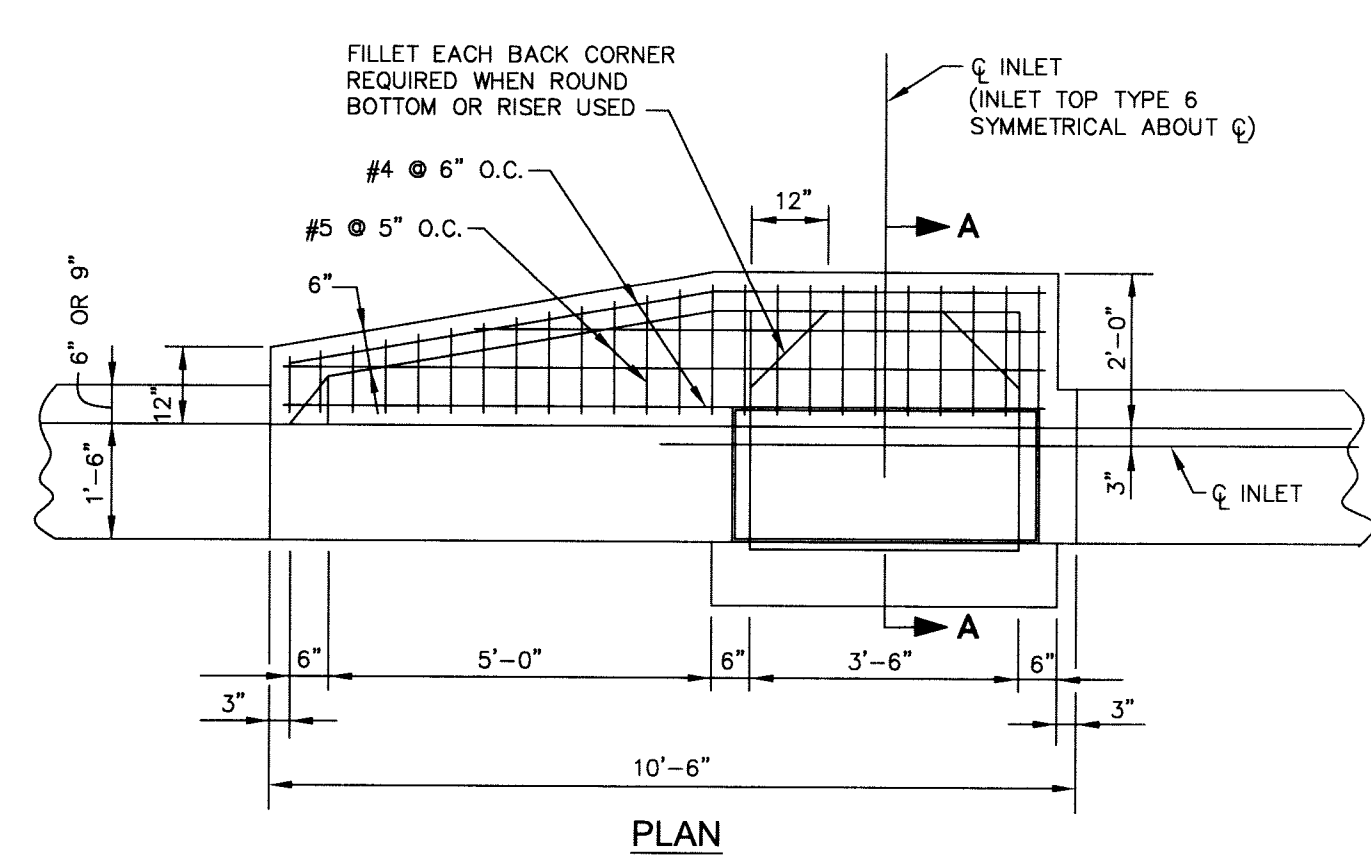
- 1.-LETTER ON COVER TO BE ARRANGED WITH A RADIUS OF 6 1/2" TO CENTER OF LETTERS.
- 2-EACH LETTER TO BE 2" LONG , 3/8" DEEP , 1/4" TO 5/16" THICK, AND FLUSH WITH TOP OF BEADS.
- 3-BEADS TO BE 3/8" HIGH WITH A RADIUS OF 1/2" AT BOTTOM AND 3/8" AT TOP
- 4.-ALL BEARING SURFACES TO BE MACHINED.
- 5-MIN WEIGHTS
COVER 168 LBS.
FRAME 365 LBS.

11 STORM SEWER MANHOLE FRAME AND COVER
SCALE:NTS



GENERAL NOTES:

- 1.- CIRCULAR STRUCTURES (Alternates "A") MAY BE CONSTRUCTED OF CONCRETE OR BRICK, BUT RECTANGULAR STRUCTURES (Alternates "B" & "C") SHALL BE CONSTRUCTED OF CONCRETE ONLY. THE CONCRETE MAY BE CAST-IN-PLACE OR PRECAST.
- 2.- WALL REINFORCEMENT AND THICKNESS ARE FOR EITHER CAST-IN-PLACE OR PRECAST CONCRETE EXCEPT THAT FOR PRECAST CIRCULAR UNITS ASTM SPECIFICATION C-76, TABLE III, FOR 8 WALL REINFORCED CONCRETE PIPE OR PRECAST CIRCULAR UNITS IN ACCORDANCE WITH ASTM SPECIFICATION C-478 WILL BE ACCEPTABLE TOP AND FLOOR SLAB THICKNESS AND THE REINFORCEMENT ARE FOR ALL TYPES OF CONSTRUCTION.
- 3.- PRECAST TOP AND/OR FLOOR SLABS MAY BE OF THE SAME CONCRETE AS SPECIFIED IN ASTM SPECIFICATIONS C-478 FOR PRECAST CIRCULAR UNITS.
- 4.- SMOOTH FLOW CHANNELS COMPOSED OF CONCRETE, OR BRICK AND MORTAR, SHALL BE CONSTRUCTED IN THE BOTTOMS OF ALL STRUCTURES TO A DEPTH EQUAL TO HALF THE DIAMETER OF THE LARGEST PIPE.
- 5.- CORNER FILLETS SHOWN FOR RECTANGULAR STRUCTURES ARE NECESSARY ONLY WHEN STRUCTURES ARE USED IN CONJUNCTION WITH CIRCULAR TOPS.
- 6.- STRUCTURES SHALL BE SECURED TO INLET THROATS, RISERS OR MANHOLE TOPS WITH A MINIMUM OF 6-No 4 BARS 12" LONG, OR AS SHOWN ON SHEET 2.
- 7.- ANY INLET, MANHOLE OR JUNCTION BOX MAY BE USED IN CONJUNCTION WITH ANY INLET THROAT OR MANHOLE TOP.
- 8.- MORTAR USED TO SEAL THE PIPE IN THE WALLS OF THE PRECAST UNITS SHALL BE OF SUCH A MIX THAT SHRINKAGE WILL NOT CAUSE LEAKAGE INTO OR OUT OF THE UNITS MAXIMUM OPENING FOR PIPE SHALL BE MAX. REQUIRED OD + 6".
- 9.- BRICK MASONRY CONSTRUCTION SHALL BE PLASTERED WITH 1/2" THICK MORTAR INSIDE AND OUTSIDE.
- 10.- CONCRETE PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE OR PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 7, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-71)".



13 CURB INLET (TYPES 5 & 6)
SCALE:NTS

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PROJECT
BISCAYNE LANDING BOULEVARD EXTENSION
PAVING AND DRAINAGE DETAILS
SHEET TITLE

SHEET
C-45

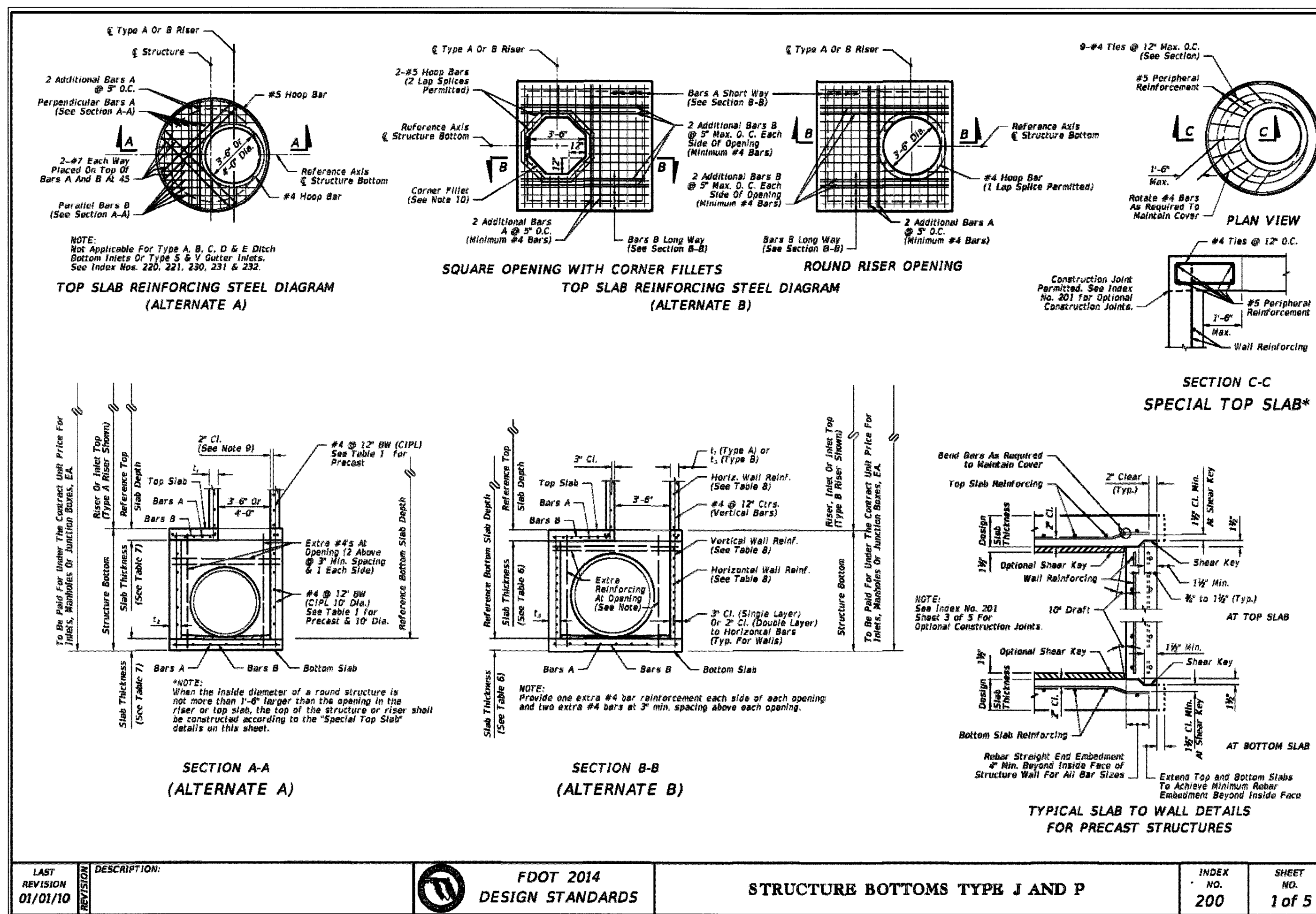
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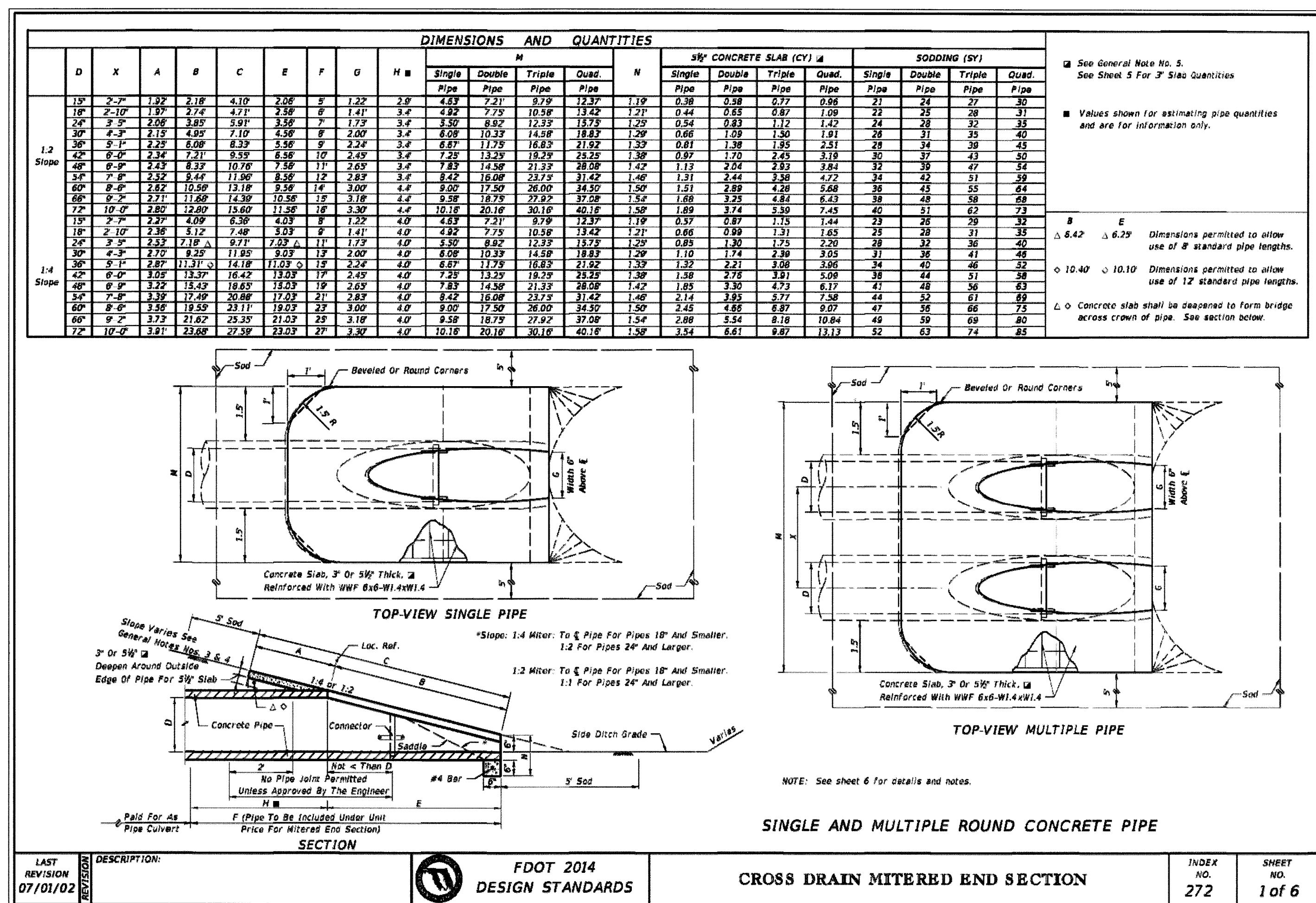
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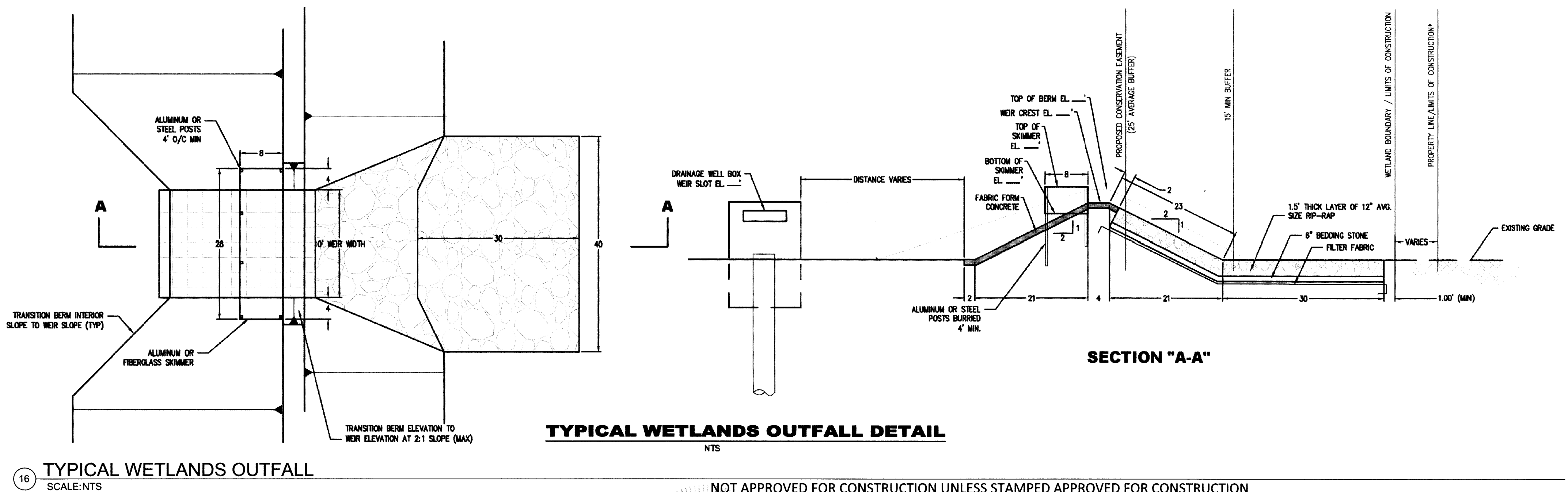
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14 STRUCTURE BOTTOMS (TYPE J AND P)
SCALE: NTS



15 MITERED END SECTION
SCALE: NTS



TYPICAL WETLANDS OUTFALL DETAIL
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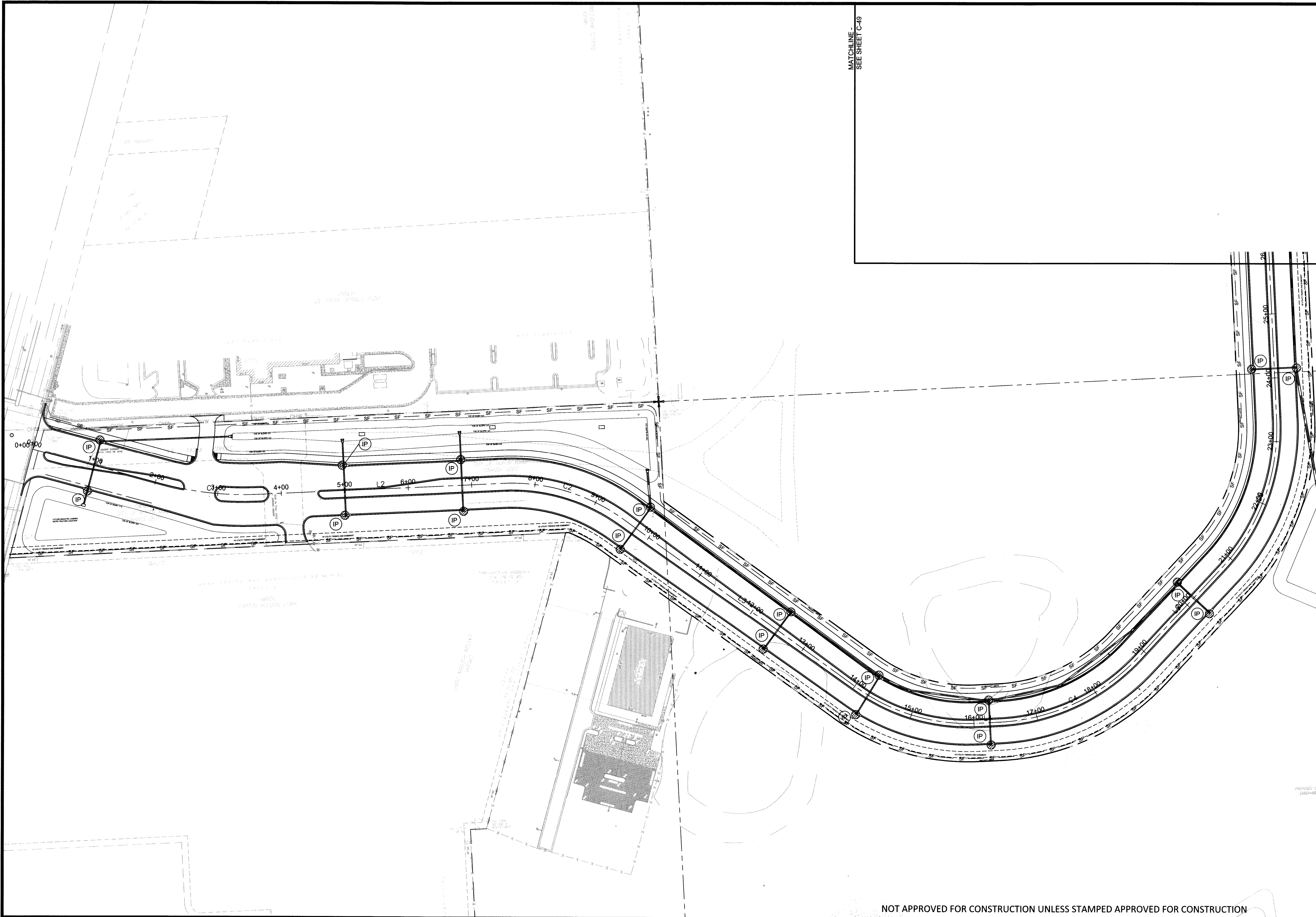
PROJECT
BISCAYNE LANDING BOULEVARD EXTENSION
PAVING AND DRAINAGE DETAILS

SHEET
C-46

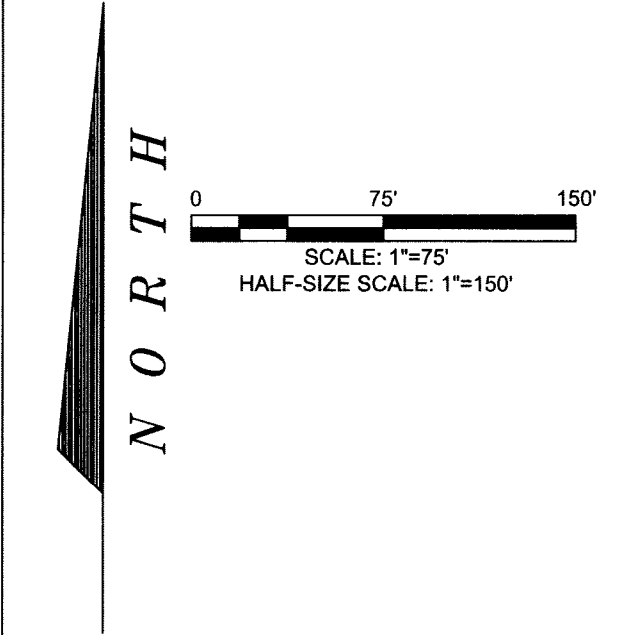
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1. SITE DESCRIPTION		5. TIMING OF CONTROLS/MEASURES		13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.		8. INVENTORY FOR POLLUTION PREVENTION PLAN		THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.		13. CERTIFICATION STATEMENT			
BISCAYNE LANDING BOULEVARD EXTENSION CITY OF NORTH MIAMI, FLORIDA OWNER NAME AND ADDRESS: OLETA PARTNERS, LLC 15045 BISCAYNE BOULEVARD NORTH MIAMI, FLORIDA 33181 A. DESCRIPTION: THIS PROJECT CONSISTS OF ROADWAY IMPROVEMENTS. B. SOIL DISTURBING ACTIVITIES: CLEARING AND GRUBBING; EARTHWORK AND GRADING; C. SITE AREA: 1. TOTAL AREA OF SITE = 13.45 ACRES 2. TOTAL AREA TO BE DISTURBED =13.45 ACRES D. RUNOFF COEFFICIENTS: 1. PRE-CONSTRUCTION = 0.20 2. DURING CONSTRUCTION = 0.40 - 0.85 3. POST-CONSTRUCTION = 0.85 SOILS: SURFICIAL SOILS, FINE SAND, OVERLAYING LANDFILL. E. SITE MAPS: * SEE ATTACHED PLAN SHEETS FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. * SEE ATTACHED PLAN SHEETS FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS * SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION. F. NAME OF RECEIVING WATERS: ADJACENT WETLANDS (BISCAYNE BAY), BISCAYNE ADJUFER		AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND SYNTHETIC BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN. 6. CONTROLS IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE PLAN SHEETS. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE PLAN SHEETS AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES. A. EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES 1. SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT. REFER TO SYNTHETIC BALE BARRIER DETAIL FOR PROPER LOCATION, MATERIAL & USAGE. 2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. REFER TO DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER. 3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE. 4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. 5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY. 6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADJACENT AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS. 7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET. 8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. 9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH. 10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS. 11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER AT NO ADDITIONAL COST TO THE OWNER. 12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.		14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED. 15. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WHATEVER QUALITY STANDARDS ARE MAINTAINED. B. STRUCTURAL PRACTICES 1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. 2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE: A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS. C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. 3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND SYNTHETIC BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL. C. SEDIMENT BASINS SEDIMENT BASINS WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER Ponds (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION. D. WETLAND PROTECTION EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION. 7. CONTROLS FOR OTHER POTENTIAL POLLUTANTS WASTE DISPOSAL 1. WASTE MATERIALS: ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LOADED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. 2. OFFSITE VEHICLE TRACKING: A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN. 3. SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS. 4. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.		THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION: ☐ Concrete ☐ Fertilizers ☐ Wood ☐ Asphalt ☐ Petroleum Based Products ☐ Masonry Blocks ☐ Tar ☐ Cleaning Solvents ☐ Roofing Materials ☐ Detergents ☐ Paints ☐ Metal Studs ☐ _____ ☐ _____ ☐ _____ CONTRACTOR SHALL CHECK APPROPRIATE BOXES. 9. SPILL PREVENTION MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT. * AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. * ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. * PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. * SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. * WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. * MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. * THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL. HAZARDOUS PRODUCTS THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. * PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. * ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. * IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE: PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. FERTILIZERS FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS. PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS. CONCRETE TRUCKS CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE. SPILL CONTROL PRACTICES IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL, IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.		10. DEWATERING AND TEMPORARY IMPOUNDMENT NOTES 1. ALL SILT FENCES SHALL BE IN PLACE PRIOR TO DEWATERING ACTIVITIES. 2. A TEMPORARY IMPOUNDMENT AREA SHALL BE CONSTRUCTED PER THE TEMPORARY IMPOUNDMENT BASIN DETAIL. THE IMPOUNDMENT AREA SHALL BE CONSTRUCTED PRIOR TO DEWATERING ACTIVITIES. 3. RECHARGE TRENCHES WILL BE MAINTAINED FULL OF WATER FOR DURATION OF THE DEWATERING ACTIVITIES. 4. DISCHARGE SHALL MEET STATE WATER QUALITY STANDARDS. CONTRACTOR SHALL USE ADDITIONAL MEASURES NECESSARY TO ENSURE WATER QUALITY STANDARDS ARE MET, SPECIFICALLY TURBIDITY. 5. DEWATERING SHALL BE DONE IN ONE PHASE AND SHALL CEASE DURING HEAVY RAINFALL EVENTS. 6. STORM WATER RUNOFF SHALL BE PREVENTED FROM ENTERING IMPOUNDMENT AREA BY BERMING AROUND THESE AREAS WITH A BERM MINIMUM OF 12" ABOVE EXISTING GRADE AND GRADING DRAINAGE AWAY FROM DEWATERING ACTIVITY AREAS. 7. THE SIZE OF THE TEMPORARY IMPOUNDMENT BASIN IS BASED ON ESTIMATED DEWATERING RATES AND VOLUMES REQUIRED TO CONSTRUCT THE PROJECT. STORMWATER MANAGEMENT SYSTEM. THE CONTRACTOR SHALL ADJUST THE SIZE OF THE TEMPORARY IMPOUNDMENT BASIN AS REQUIRED BASED ON THE MEANS AND METHODS OF CONSTRUCTION AND ACTUAL FIELD CONDITIONS, INCLUDING DEWATERING PUMP RATES AND RATES OF INFILTRATION ENCOUNTERED. 11. TURBIDITY MONITORING SAMPLE PLAN MONITORING REQUIRED: DESCRIPTION: TURBIDITY EXPRESSES IN NEPHELO-METRIC TURBIDITY UNITS (NTU) LOCATION: BACKGROUND - SAMPLES SHALL BE TAKEN 200 FT UPSTREAM OF EACH CONSTRUCTION ACTIVITY WITHIN SURFACE WATER OF THE STATE COMPLIANCE. SAMPLES SHALL BE TAKEN 200 FT DOWNSTREAM. FREQUENCY: PERIODICALLY AS DETERMINED BY CONTRACTOR TO ENSURE COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY STANDARDS. DURATION: MONITORING SHALL BEGIN ON THE FIRST DAY OF CONSTRUCTION FOR ALL ACTIVITIES RELATED TO THE PROPOSED ACTIVITIES THAT ARE CLASSIFIED AS SURFACE WATERS OF THE STATE. MONITORING SHALL CEASE WHEN ALL CONSTRUCTION ACTIVITIES RELATED TO THE PROPOSED ACTIVITIES ARE COMPLETED. THE MONITORING DATA MUST DEMONSTRATE THAT TURBIDITY 200 FT DOWNSTREAM OF ALL PROPOSED ACTIVITIES IS LESS THAN OR EQUAL TO 29 NTUS ABOVE NATURAL BACKGROUND TURBIDITY 200 FT UPSTREAM OF EACH PROPOSED ACTIVITY FOR A PERIOD OF 7 CONSECUTIVE DAYS AFTER COMPLETION OF CONSTRUCTION. ALL MONITORING DATA SHALL BE SUBMITTED WITHIN ONE WEEK OF ANALYSIS WITH DOCUMENTS CONTAINING THE FOLLOWING INFORMATION: (1) PERMIT AND APPLICATION NUMBER; (2) DATES OF SAMPLING AND ANALYSIS; (3) A STATEMENT DESCRIBING THE METHODS USED IN COLLECTION, HANDLING, STORAGE AND ANALYSIS OF THE SAMPLES; (4) A MAP INDICATING THE SAMPLING LOCATIONS AND (5) A STATEMENT BY THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE SAMPLING PROGRAM CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF THE DATA. MONITORING REPORTS SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR EACH SAMPLE THAT IS TAKEN: (A) TIME AND DAY SAMPLES TAKEN; (B) DEPTH OF WATER BODY; (C) DEPTH OF SAMPLE; (D) ANTECEDENT WEATHER CONDITIONS; (E) WIND DIRECTION AND VELOCITY IF MONITORING REVEALS VIOLATIONS OF THE STATE WATER QUALITY STANDARD FOR TURBIDITY, CONSTRUCTION SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS. ANY SUCH OCCURRENCE SHALL ALSO BE IMMEDIATELY (WITHIN A 24 HOUR PERIOD) REPORTED TO THE LOCAL WATER MANAGEMENT DISTRICT.		13. CERTIFICATION STATEMENT ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A COPY OF THE FOLLOWING CERTIFICATION STATEMENT BEFORE CONDUCTING ANY ACTIVITIES AT THE SITE. I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORM WATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.			
										RESPONSIBLE FORBUDIES GENERAL CONTRACTOR SUB-CONTRACTOR SUB-CONTRACTOR SUB-CONTRACTOR SUB-CONTRACTOR			
										BUSINESS NAME, ADDRESS AND TELEPHONE NUMBER OF CONTRACTOR & ALL SUBS SIGNATURE AND TITLE			
										4. POLLUTION PREVENTION PLAN CERTIFICATION I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. DATED: _____ SIGNED: _____			
2001 NW 107th Avenue Miami, Florida 33172 305.592.7275 FBPR Certificate of Authorization No. 24		CLIENT  OLETA PARTNERS, LLC 3390 MARY STREET, STE 200 MIAMI, FL 33133		ORIGINAL REVISIONS: 1 2 3 4		NOTICE: The information in this document was prepared by Atkins. While Atkins has taken all reasonable steps to assure the accuracy of the information contained in this document, it cannot guarantee that changes or alterations to this document will not be made by persons other than Atkins personnel after the document leaves the possession of Atkins. Changes or alterations may be safely related and result in damage to property, personal injury or death. If verification of the information contained in this document is needed, contact will be made directly with Atkins. This document must be compared to the original hard copy, with certified raised seal, if applicable, in order to insure the accuracy of the information contained therein and to further insure that no changes, alterations or modifications have been made to the document. No reliance should ever be made on a documentation transmitted or reviewed by computer or other electronic means unless it is first compared to the original. Atkins makes no warranties, express or implied, concerning the accuracy of the information contained in any document transmitted or reviewed by computer or other electronic means.		JOHN H. WILLY, CIVIL ENGINEER, P.E. NO. 53233  No 53233 10-28-13 Signature _____ Date _____ NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK		JOB NO. 100032762 DRAWN _____ DESIGNED _____ CHECKED _____ QC _____		PROJECT BISCAYNE LANDING BOULEVARD EXTENSION SHEET TITLE STORM WATER POLLUTION PREVENTION NOTES	
										SHEET C-47			

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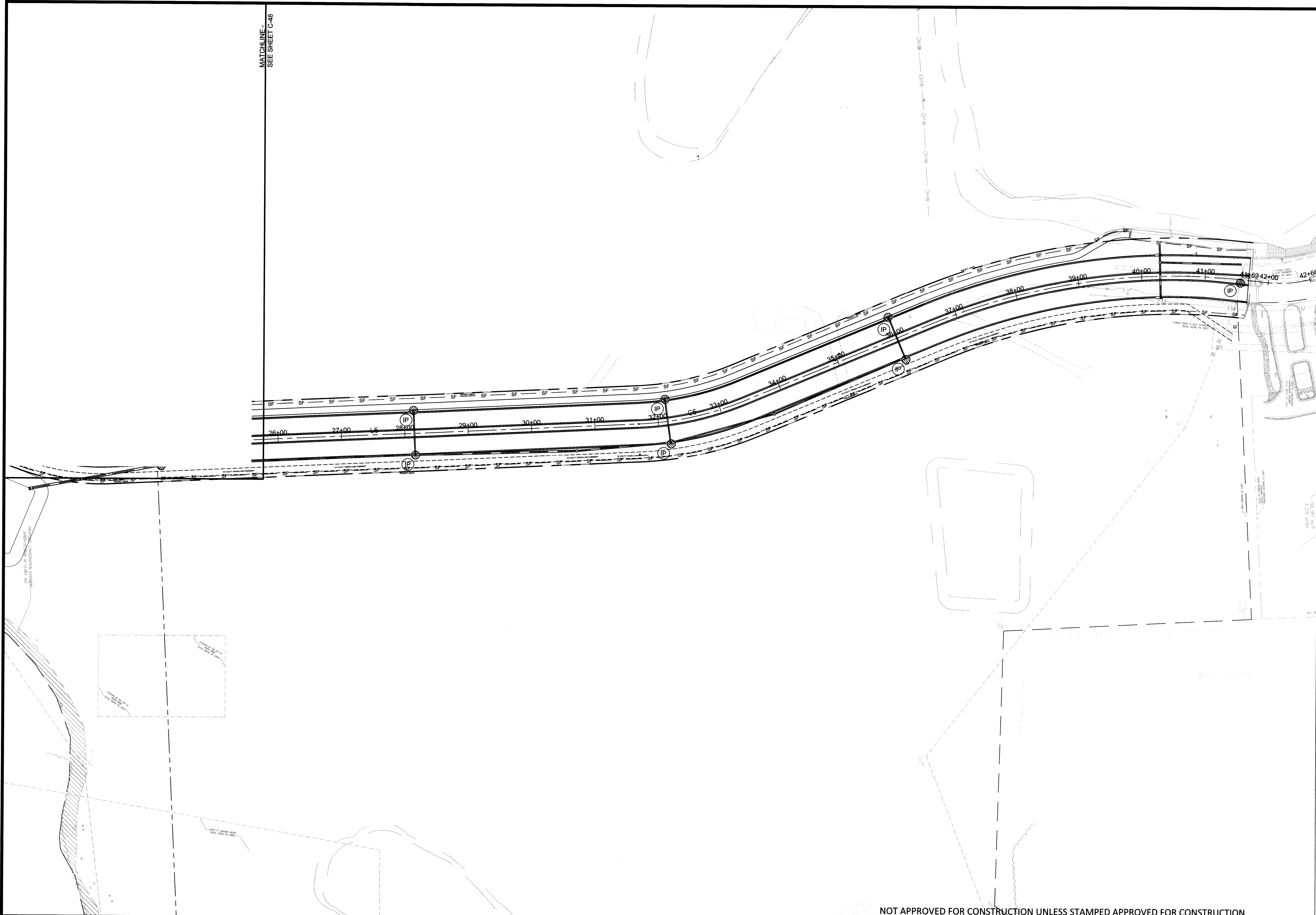
SHEET LEGEND

- INLET PROTECTION
- SILT FENCE

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DESIGNED _____																
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PROJECT	BISCAYNE LANDING BOULEVARD EXTENSION															
SHEET TITLE	STORM WATER POLLUTION PREVENTION PLAN															

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NORTH

0 75' 150'

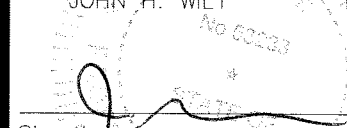
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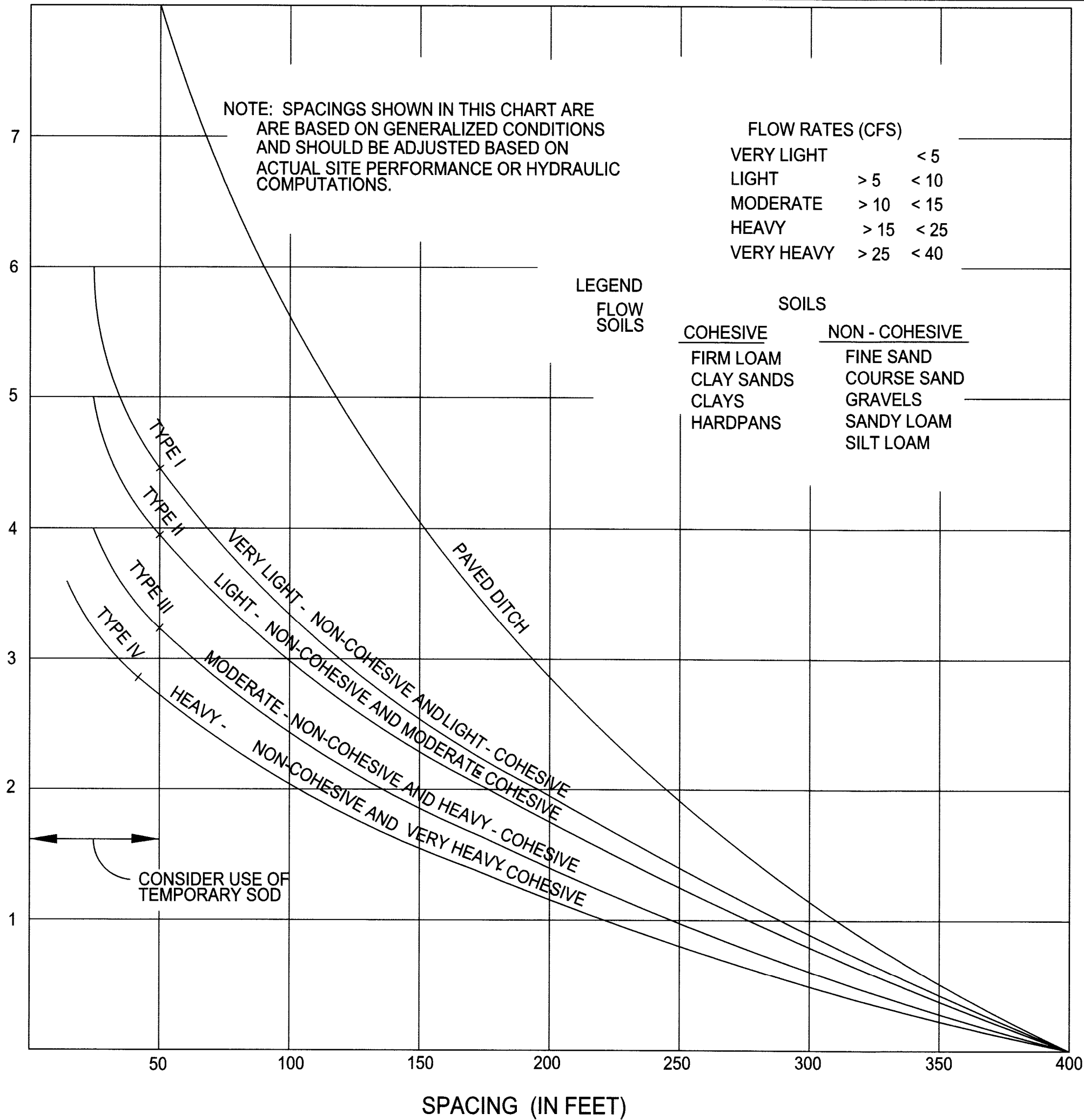
INLET PROTECTION 

SILT FENCE 

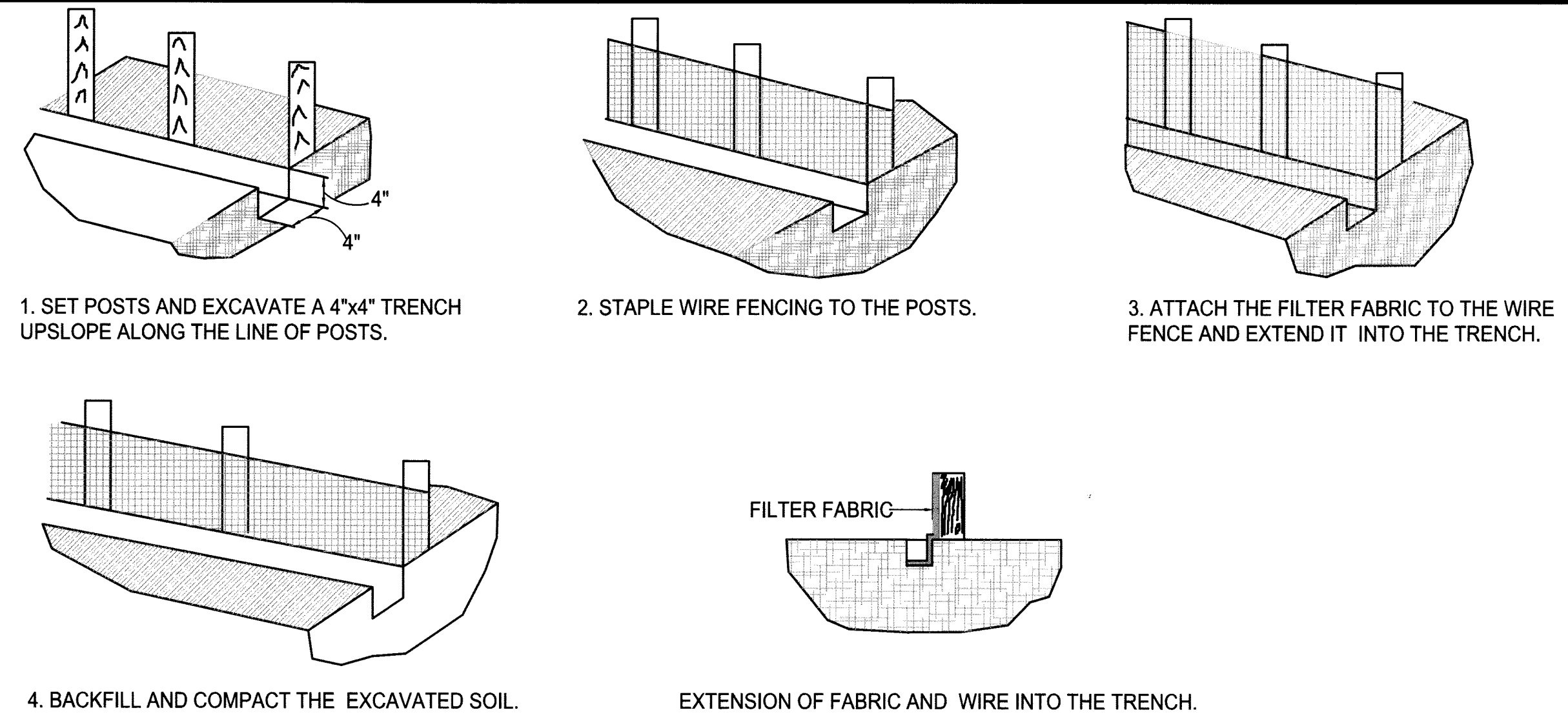
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JOB NO.	100032762																				
DRAWN	_____																				
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PROJECT	BISCAYNE LANDING BOULEVARD EXTENSION																				
SHEET TITLE	STORMWATER POLLUTION PREVENTION PLAN																				

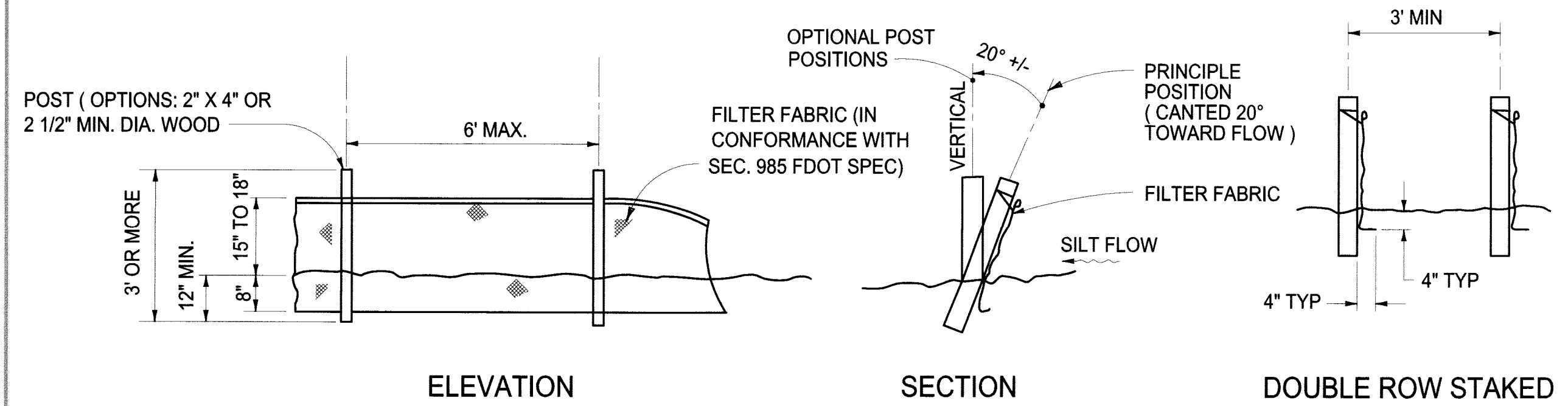
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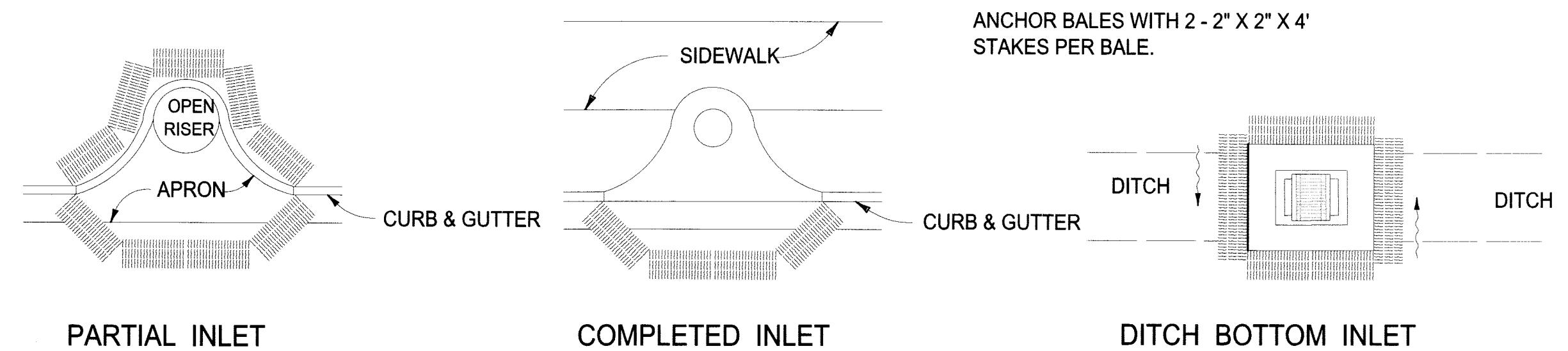
01 SPACING RECOMMENDATION FOR SILT FENCES & SYNTHETIC BALES
SCALE: NTS



02 CONSTRUCTION DETAILS FOR SILT FENCES
SCALE: NTS



03 SILT FENCE TYPE III
SCALE: NTS



04 PROTECTION AROUND INLETS OR SIMILIAR STRUCTURES
SCALE: NTS

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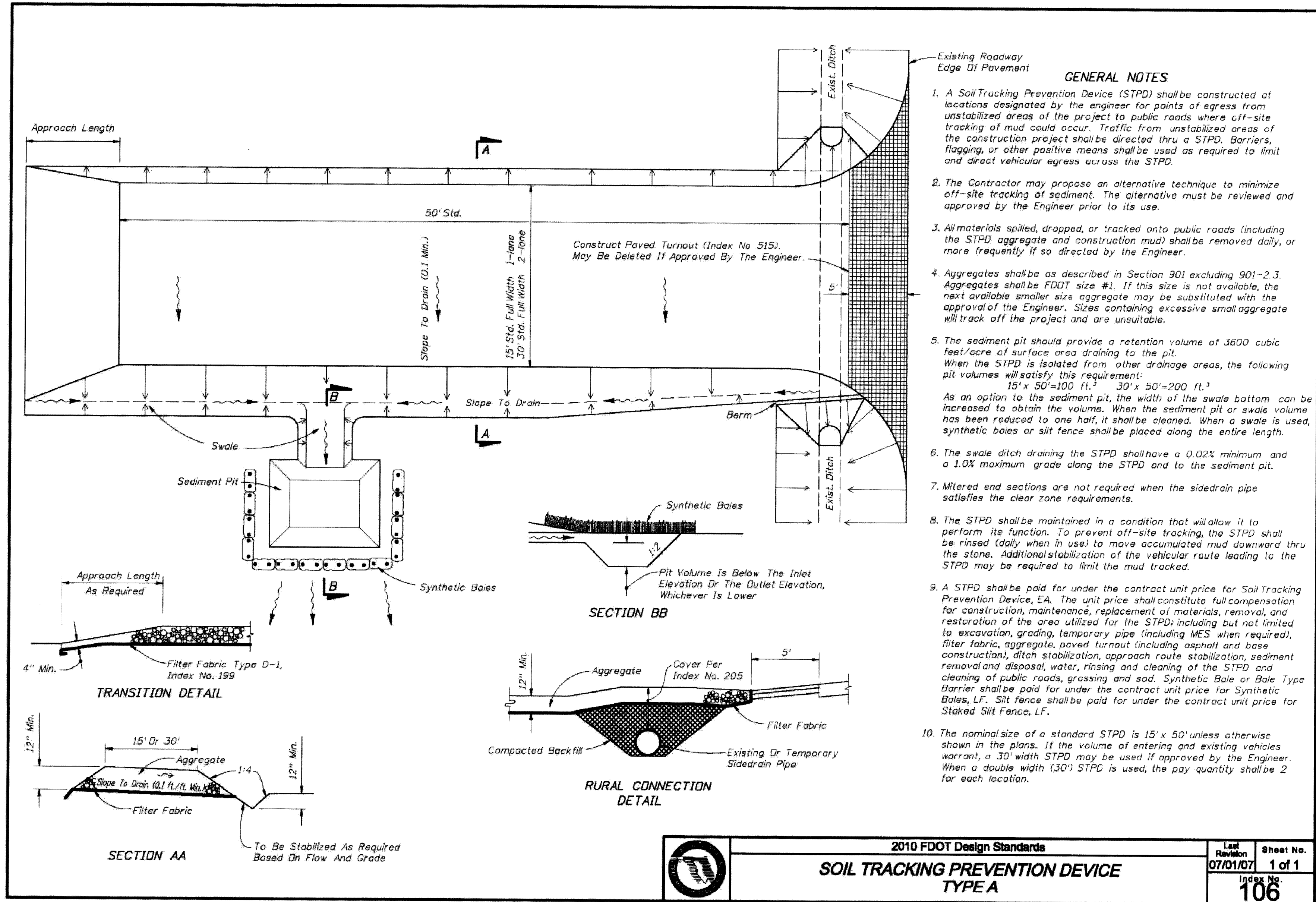
JOHN H. WILT
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P.E. NO. 53233
Date 10-26-13
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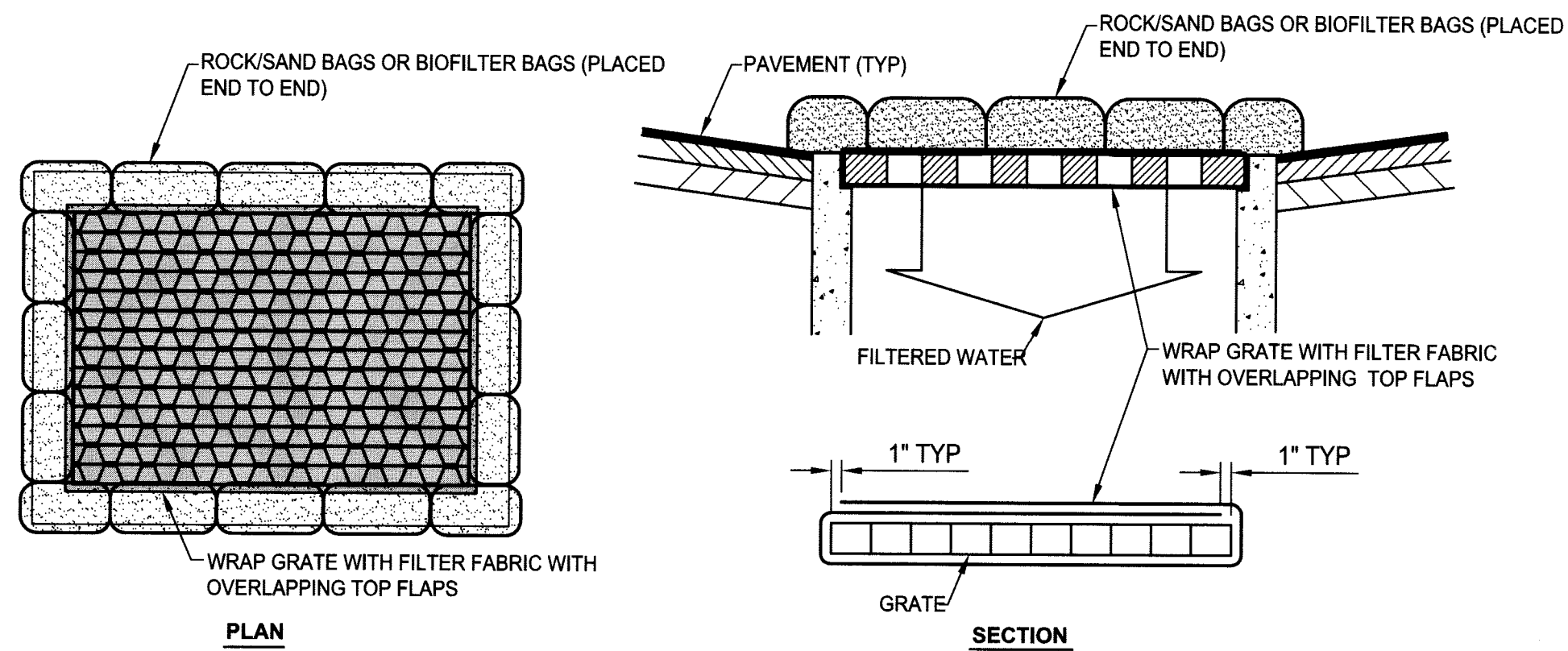
PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **STORM WATER POLLUTION PREVENTION DETAILS**

SHEET
C-50

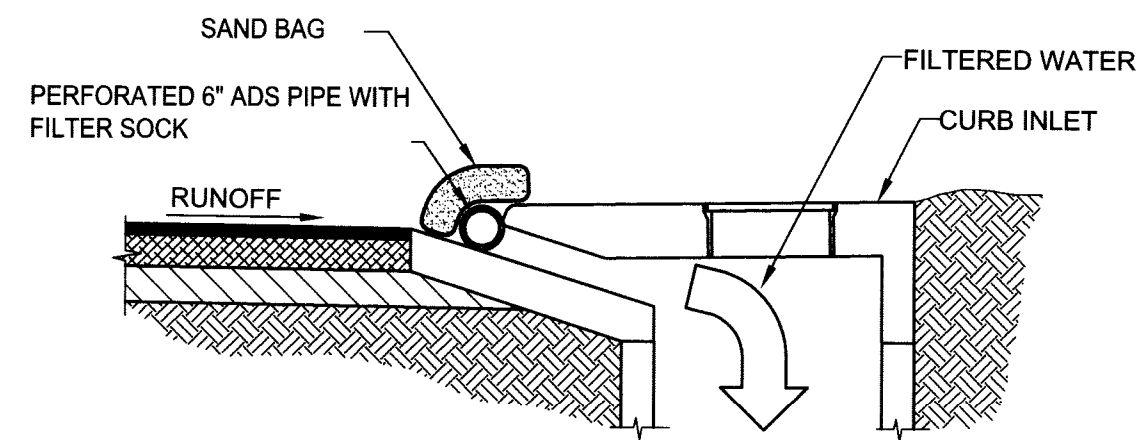
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05 SOIL TRACKING PREVENTION DEVICE TYPE A
SCALE: NTS



06 INLET SEDIMENT FILTER
SCALE: NTS



07 CURB INLET SEDIMENT FILTER
SCALE: NTS

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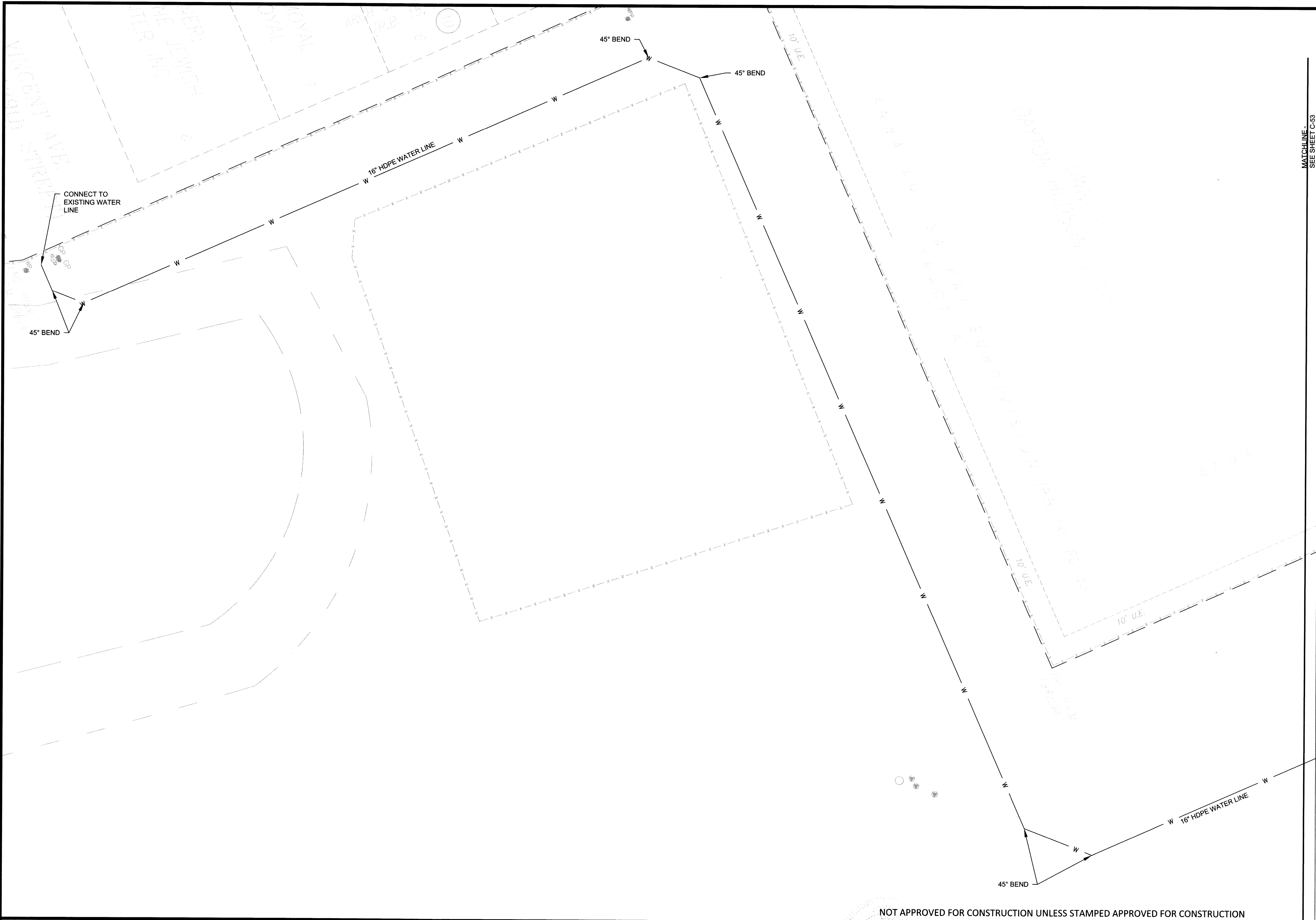
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PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **STORM WATER POLLUTION PREVENTION DETAILS**

SHEET
C-51

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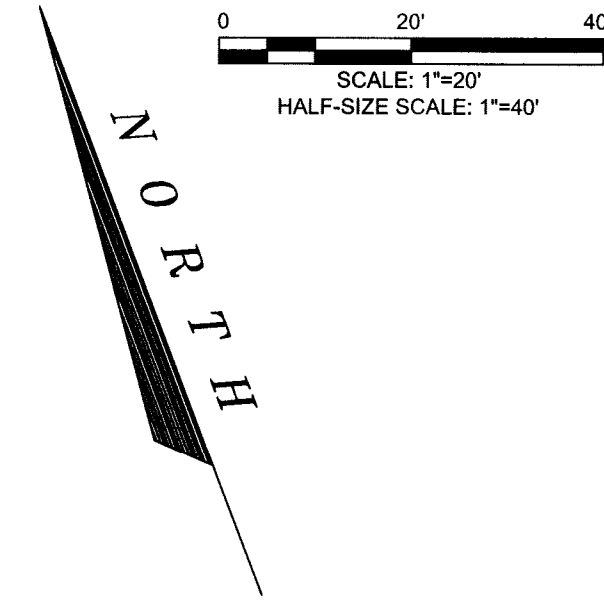
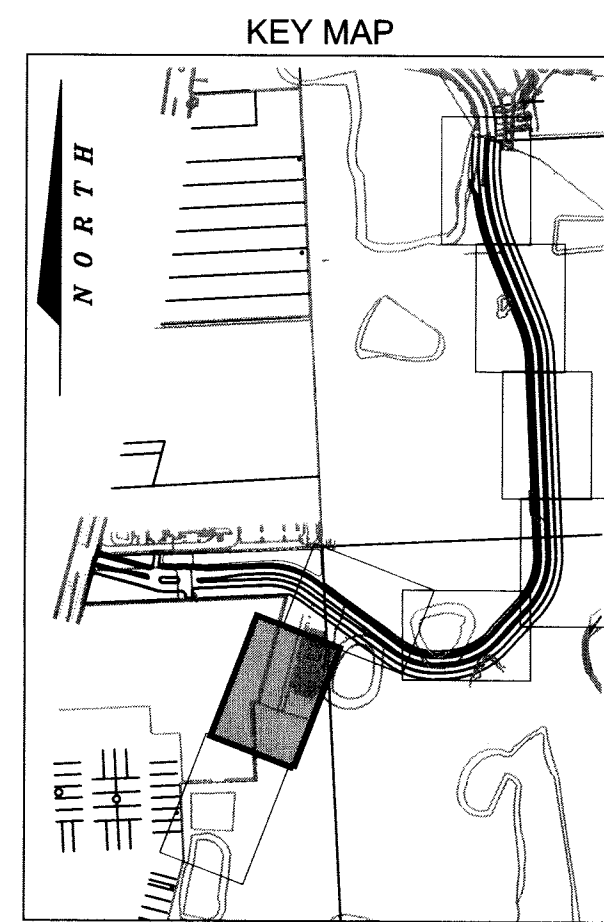
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Signature: Date: 8-29-13
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QC: _____

PROJECT: **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE: **UTILITY PLAN**

SHEET
C-53



SCALE: 1"=20'
HALF-SIZE SCALE: 1"=40'

N
O
R
T
H

OWNER:
DAYTON HUDSON CORP.

TRACT A
SUBDIVISION
P.B. 143, MC 53
SHAW LOUISA WAY SUBDIVISION

TRACT A
SUBDIVISION
P.B. 140, PD. 53
SA KAY

10' U.E.

10' U.E.

16" HDPE WATER LINE

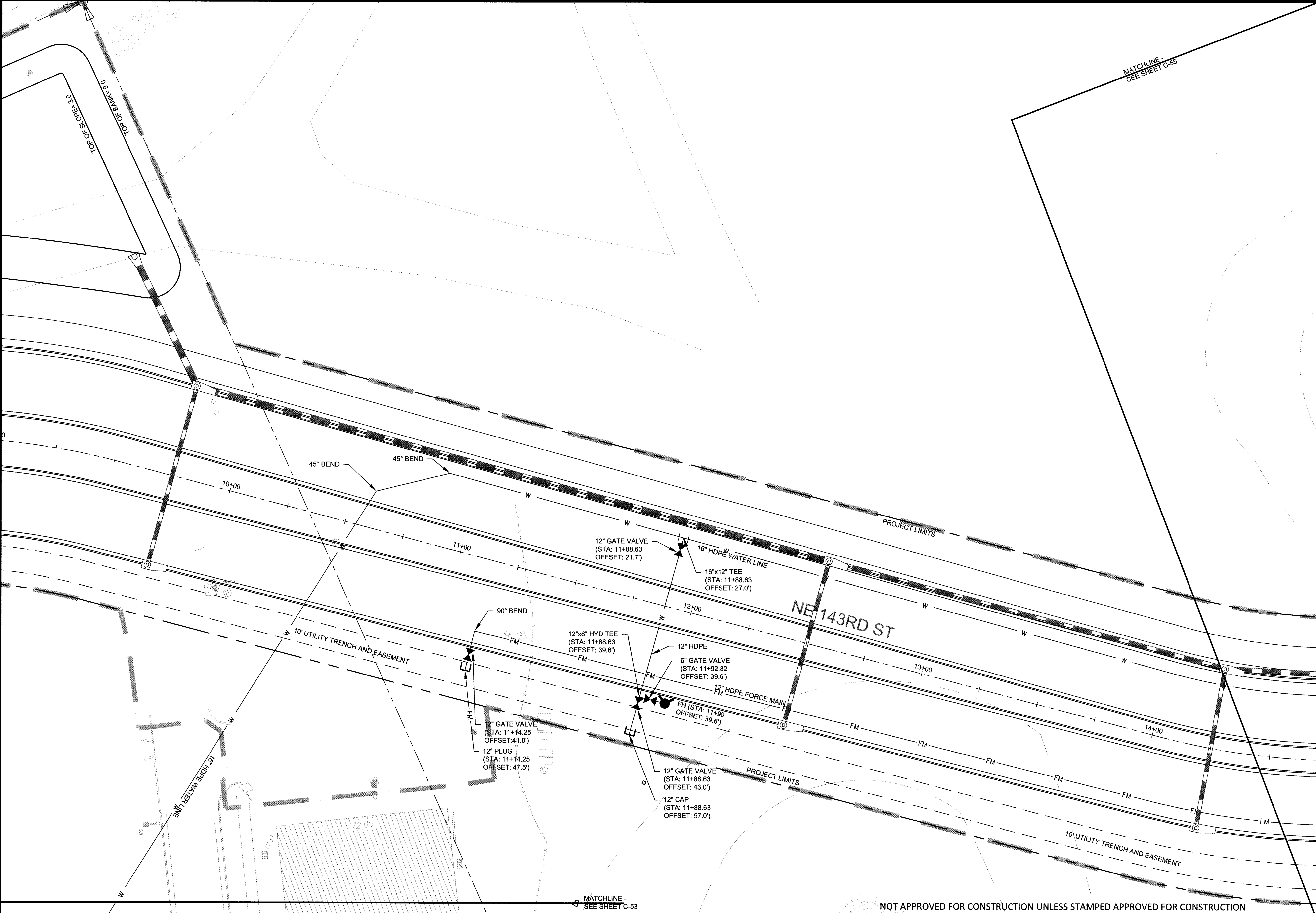
129.10'

72.04'

129.15'

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0 20' 40'

SCALE: 1"=20'

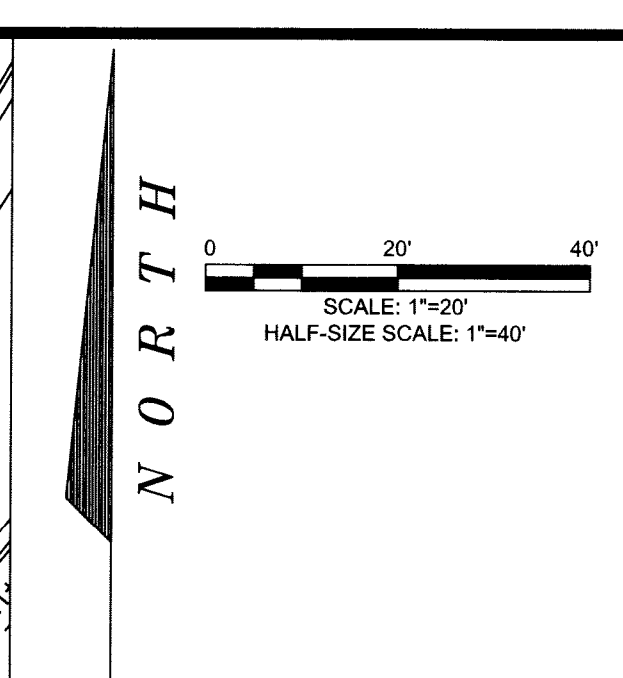
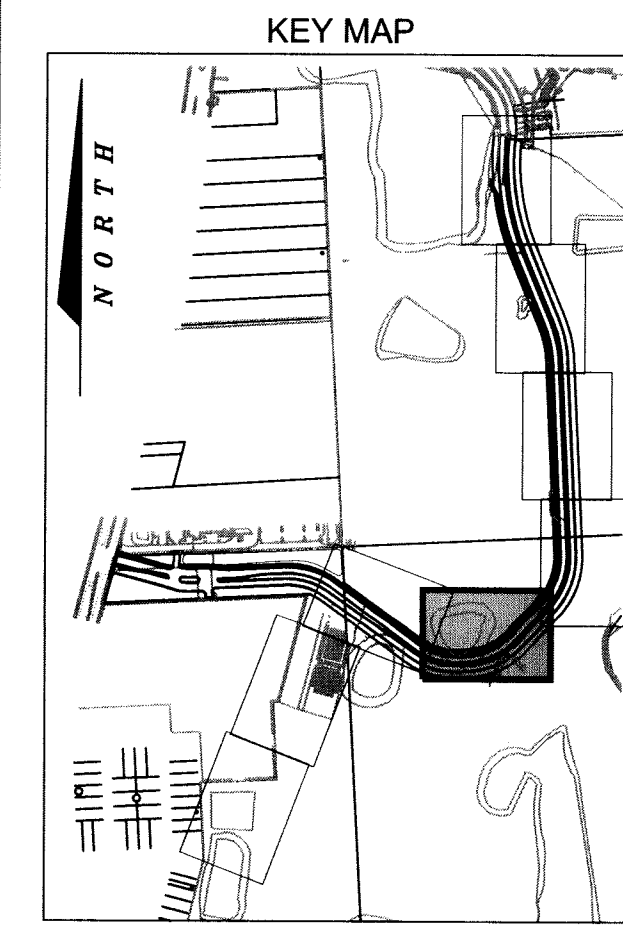
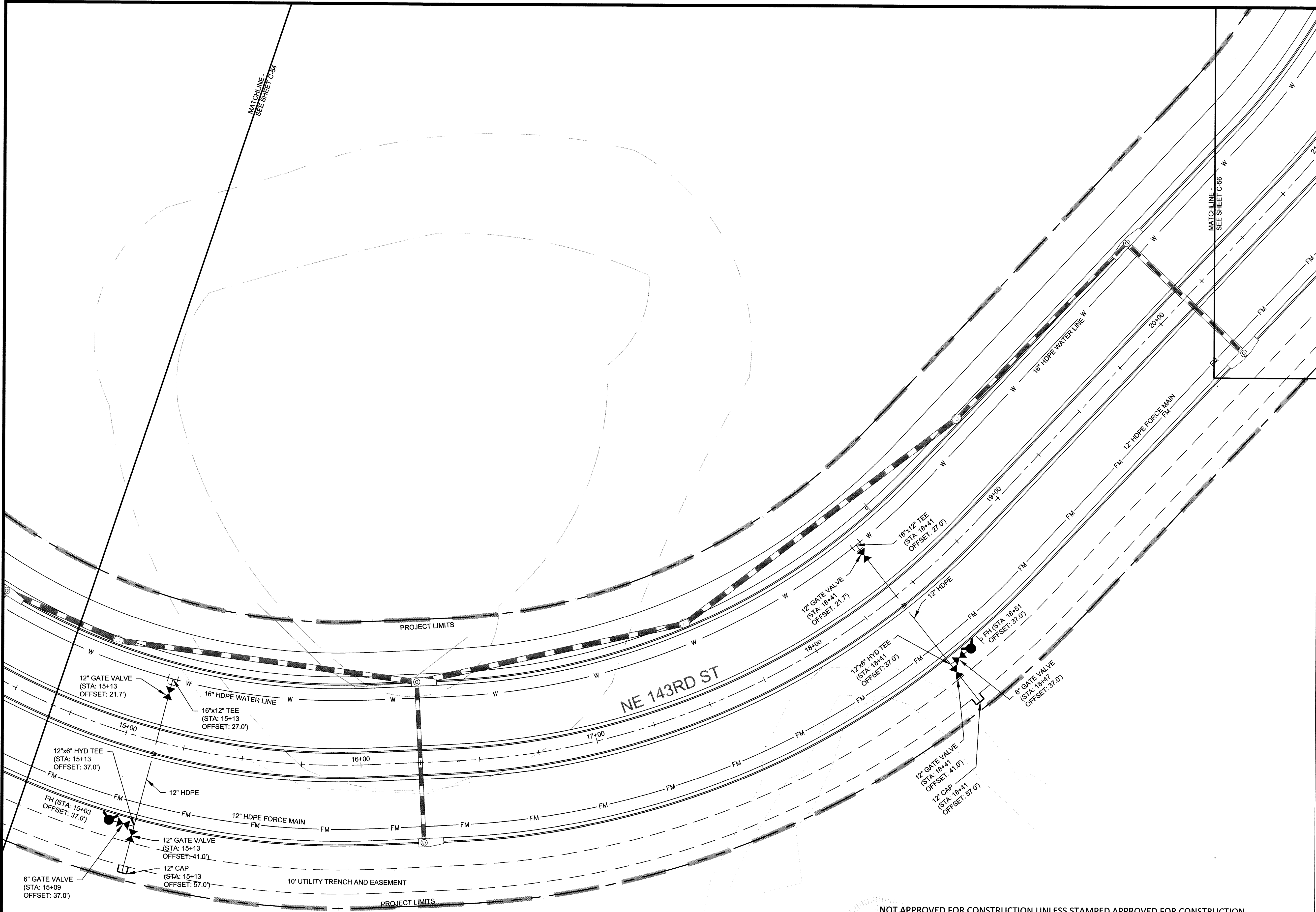
HALF-SIZE SCALE: 1"=40'

NORTH

KEY MAP

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	ORIGINAL REVISIONS:								
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JOHN H. WILT

Signature

P.E. NO. 53233
10-28-13
Date

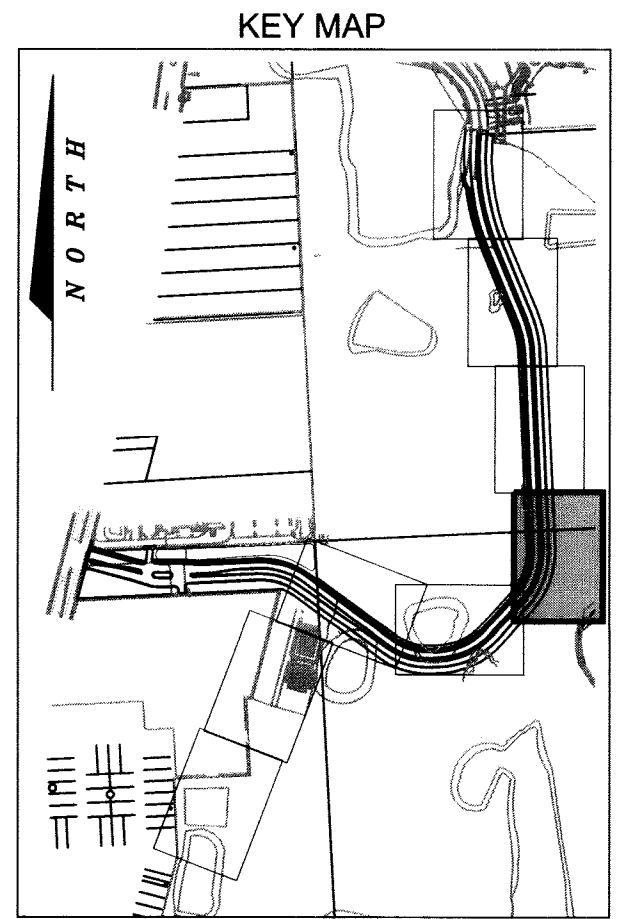
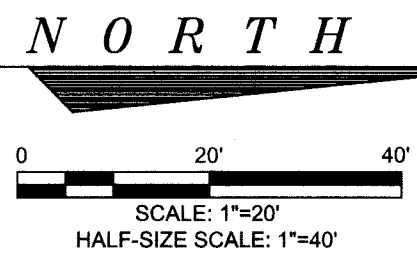
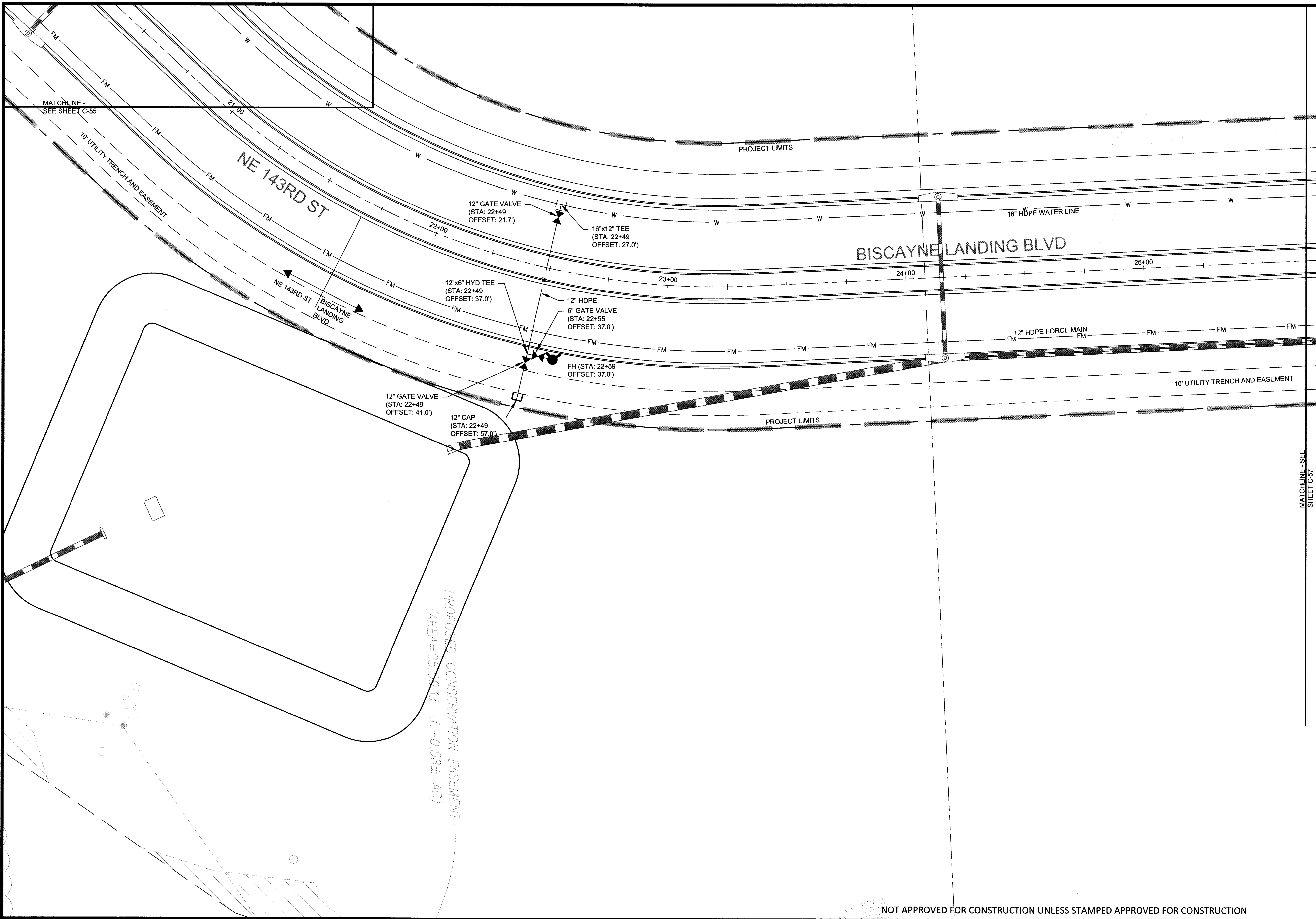
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JOB NO. 100032762	PROJECT BISCAYNE LANDING BOULEVARD EXTENSION
DRAWN _____	SHEET TITLE
DESIGNED _____	UTILITY PLAN
CHECKED _____	
QC _____	

SHEET
C-55

Users: 25183 D:\C:\WORK\PROJECTS\100032762 Biscayne Landing\PLANS\SHEETS\Utility Plans.dwg 08/29/2013 11:27:28 AM



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JOHN R. WILT, P.E. NO. 53233
Signature: [Signature] Date: 10-28-13
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DRAWN
DESIGNED
CHECKED
QC

PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **UTILITY PLAN**

SHEET
C-56

Users: 20182
D:\C:\PROJECTS\100032762 Biscayne Landing\PLANS\utility Plans.dwg 08/29/2013 11:23:40 AM
MATCHLINE - SEE SHEET C-56

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REVISIONS:	_____
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3	_____
4	_____

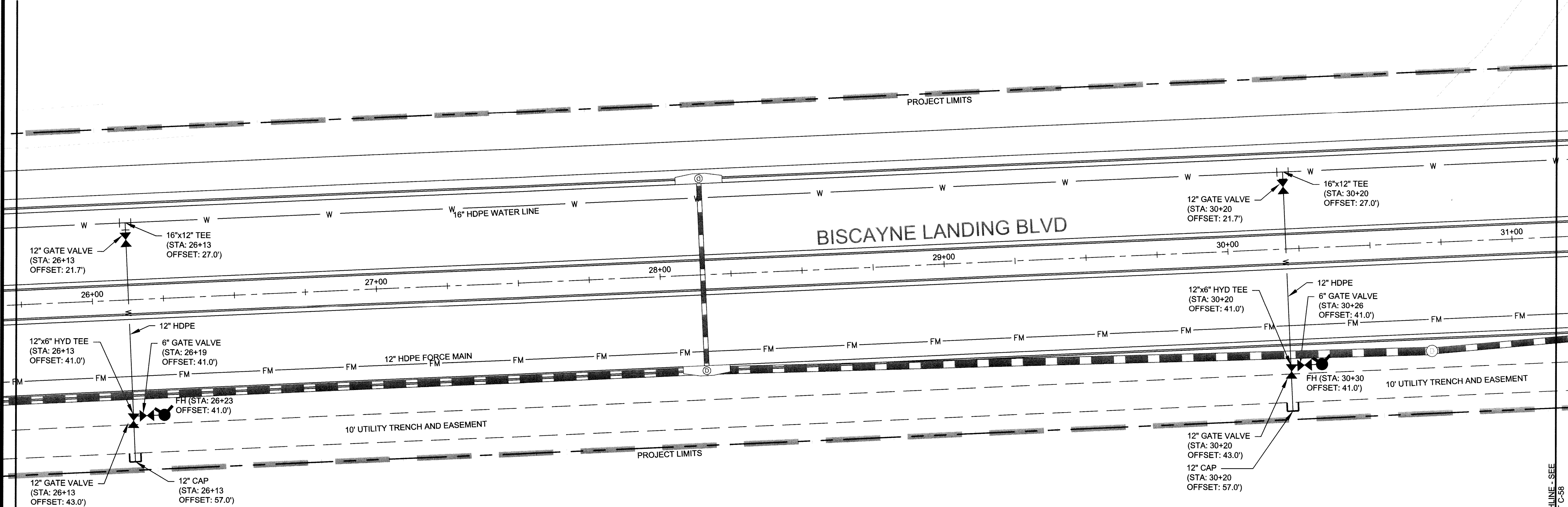
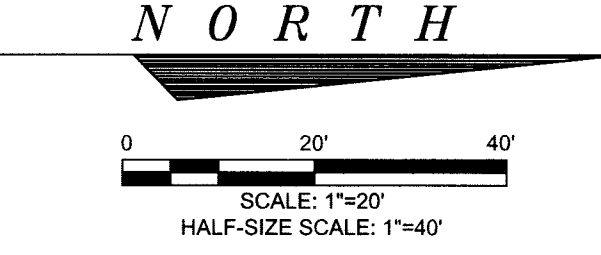
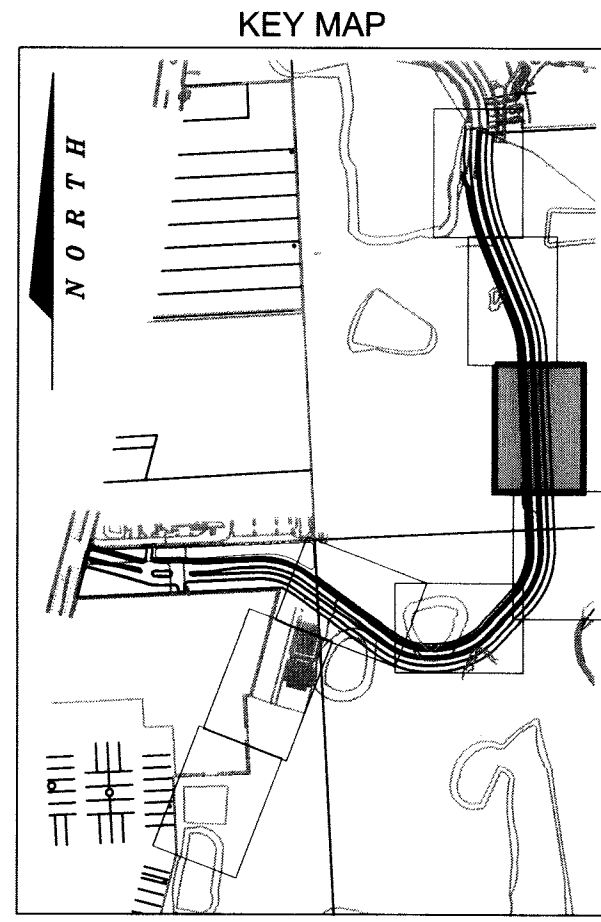
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Signature: _____
Date: 12-23-13
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PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **UTILITY PLAN**

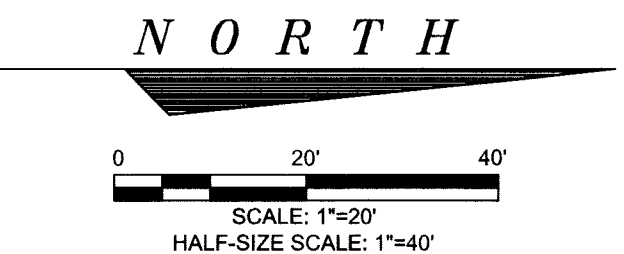
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C-57



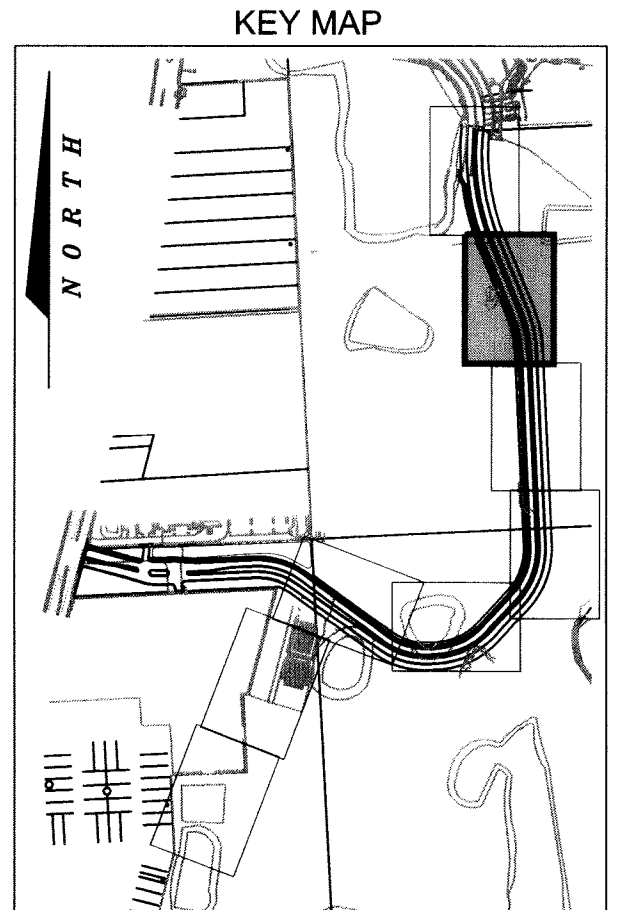
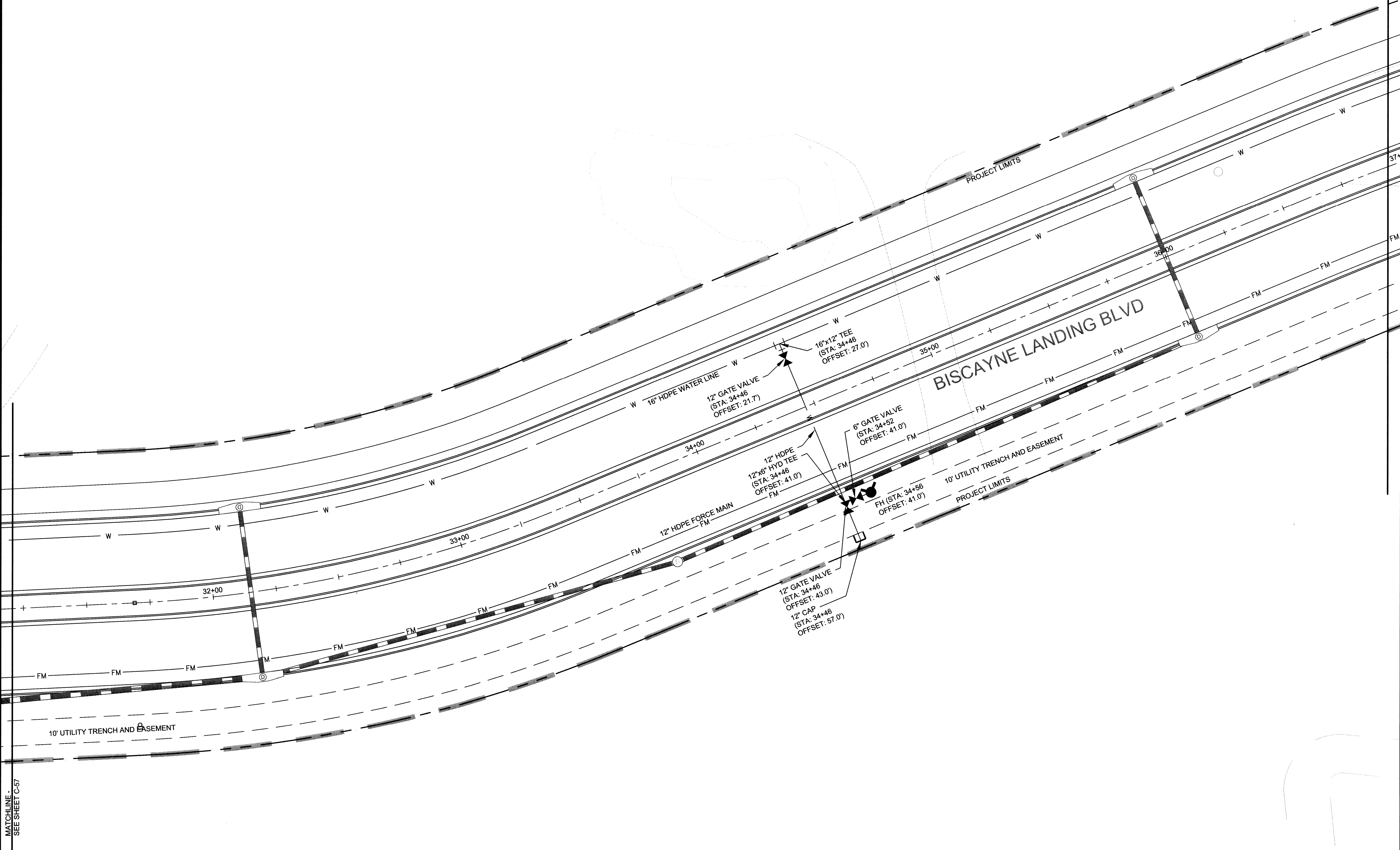
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MATCHLINE -
SEE SHEET C-57

MATCHLINE -
SEE SHEET C-59



SHEET KEYNOTES



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JOHN H. WILT
Signature
P.E. NO. 53233
Date 12-28-13
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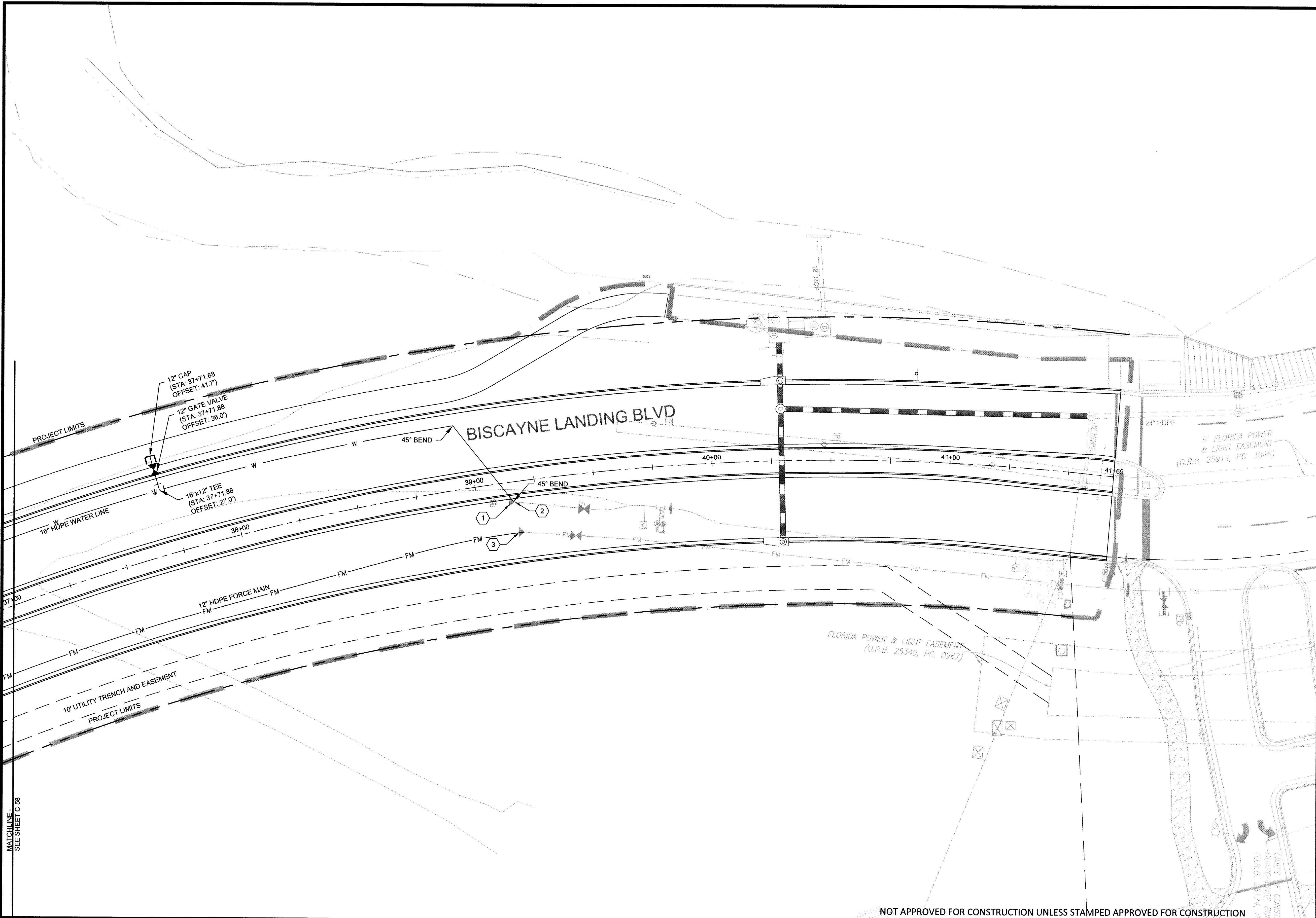
JOB NO.	100032762
DRAWN	
DESIGNED	
CHECKED	
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PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**

SHEET TITLE **UTILITY PLAN**

SHEET
C-58

U:\proj\25183 Biscayne Landing\PLANS\UTILITY\Utility Plans.dwg 08/29/2013 11:24:09 AM
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N O R T H

0 20' 40'

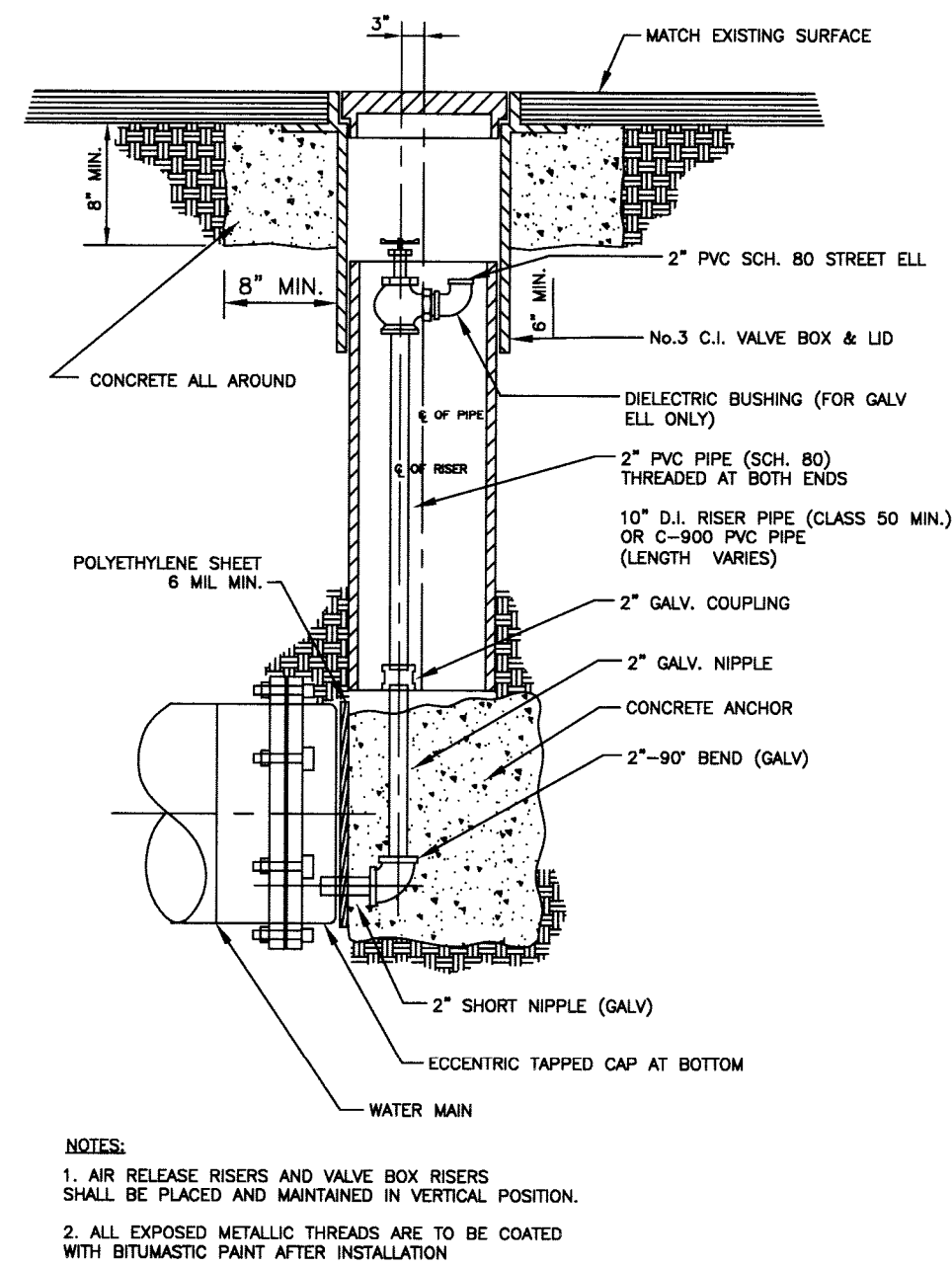
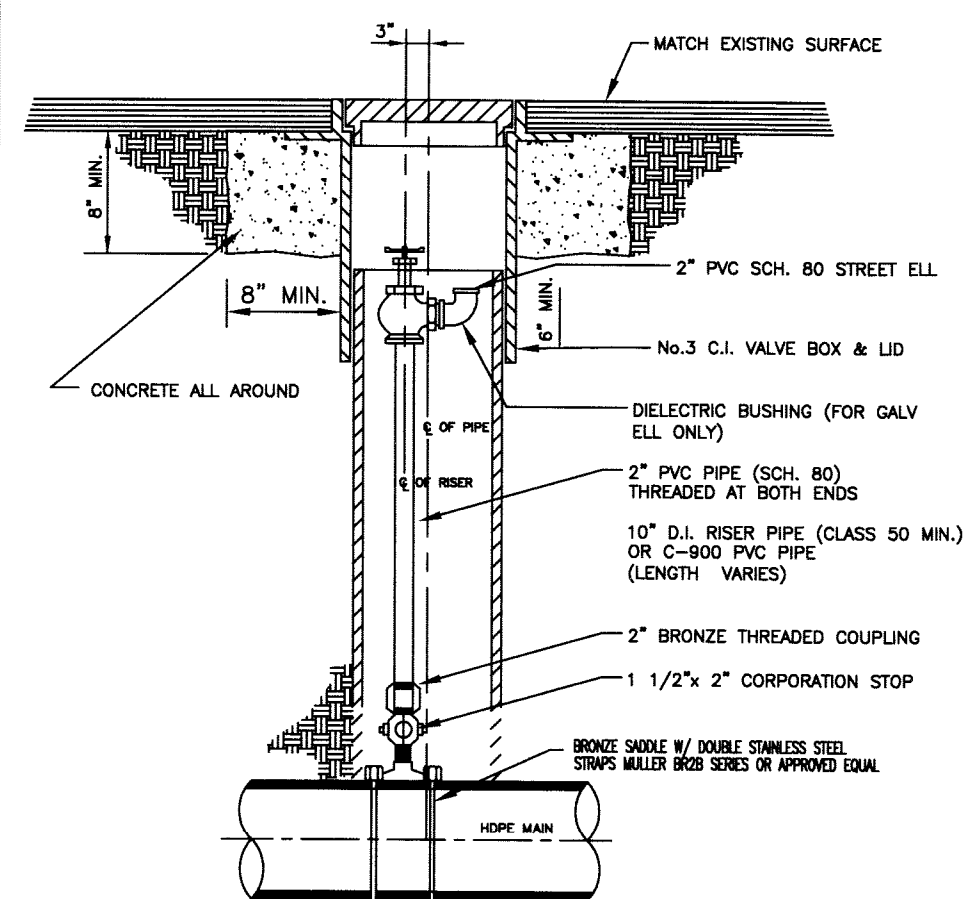
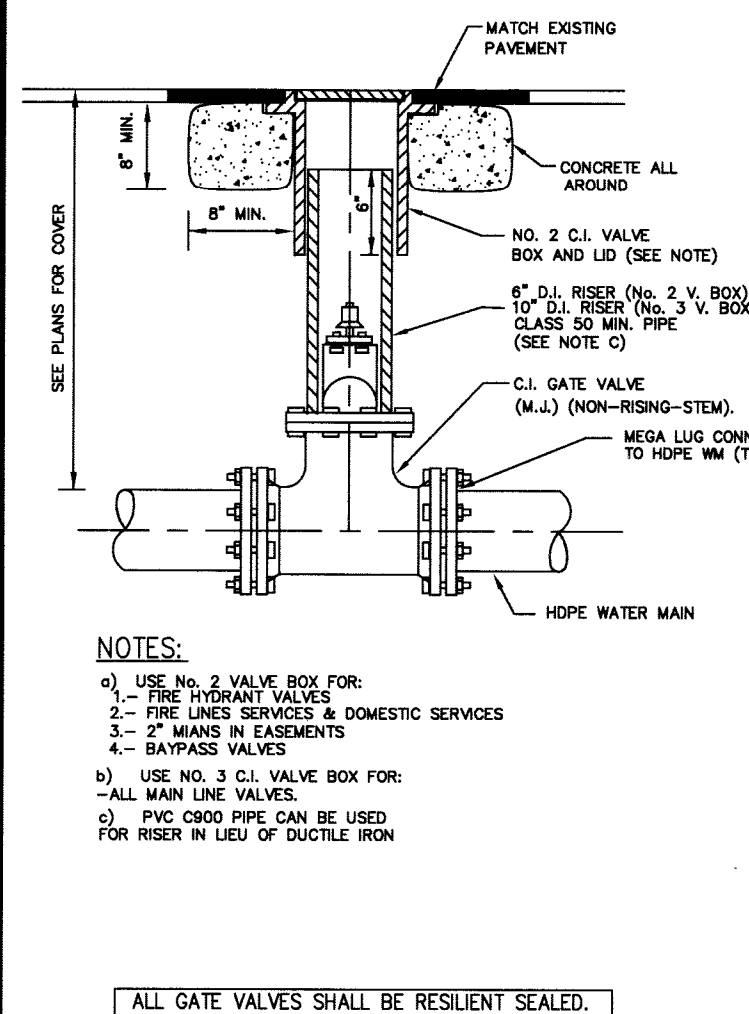
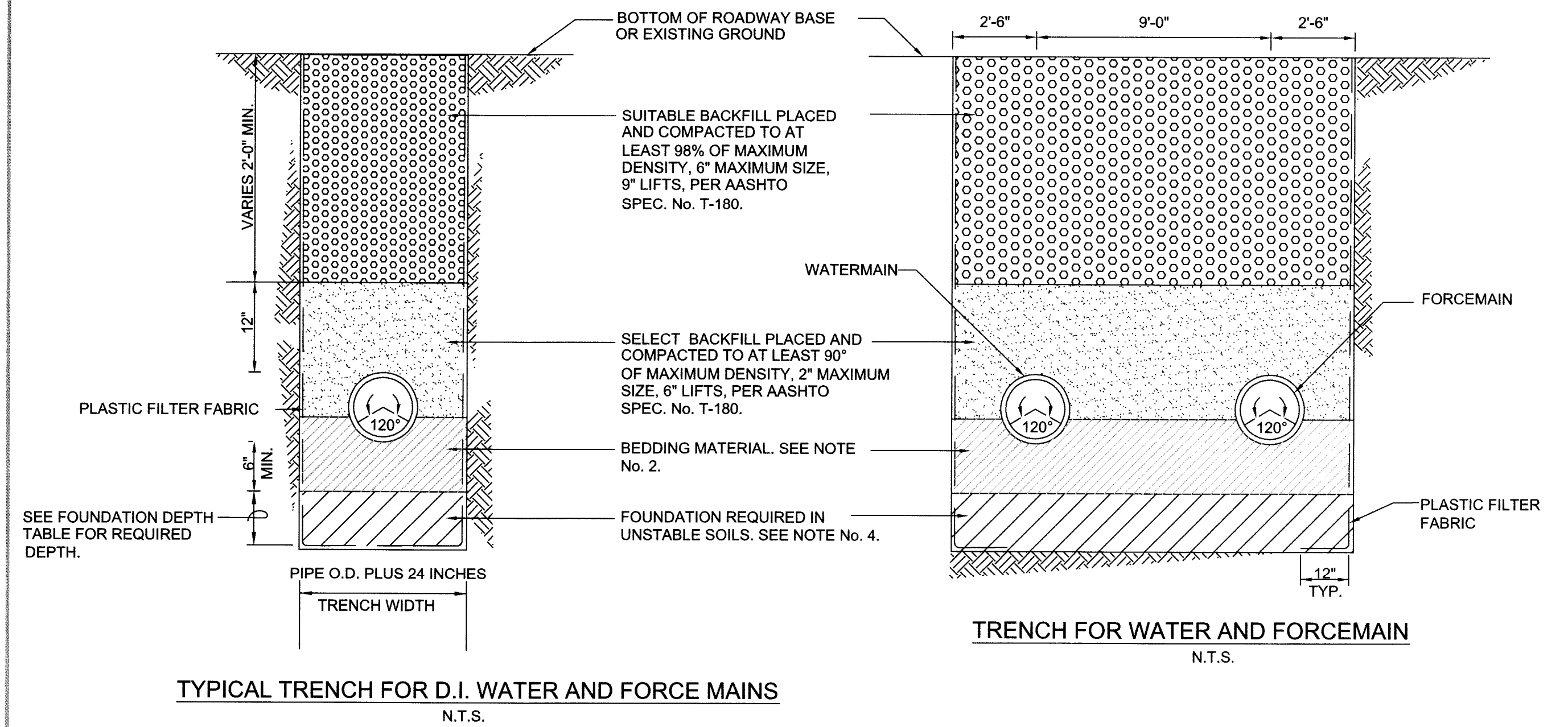
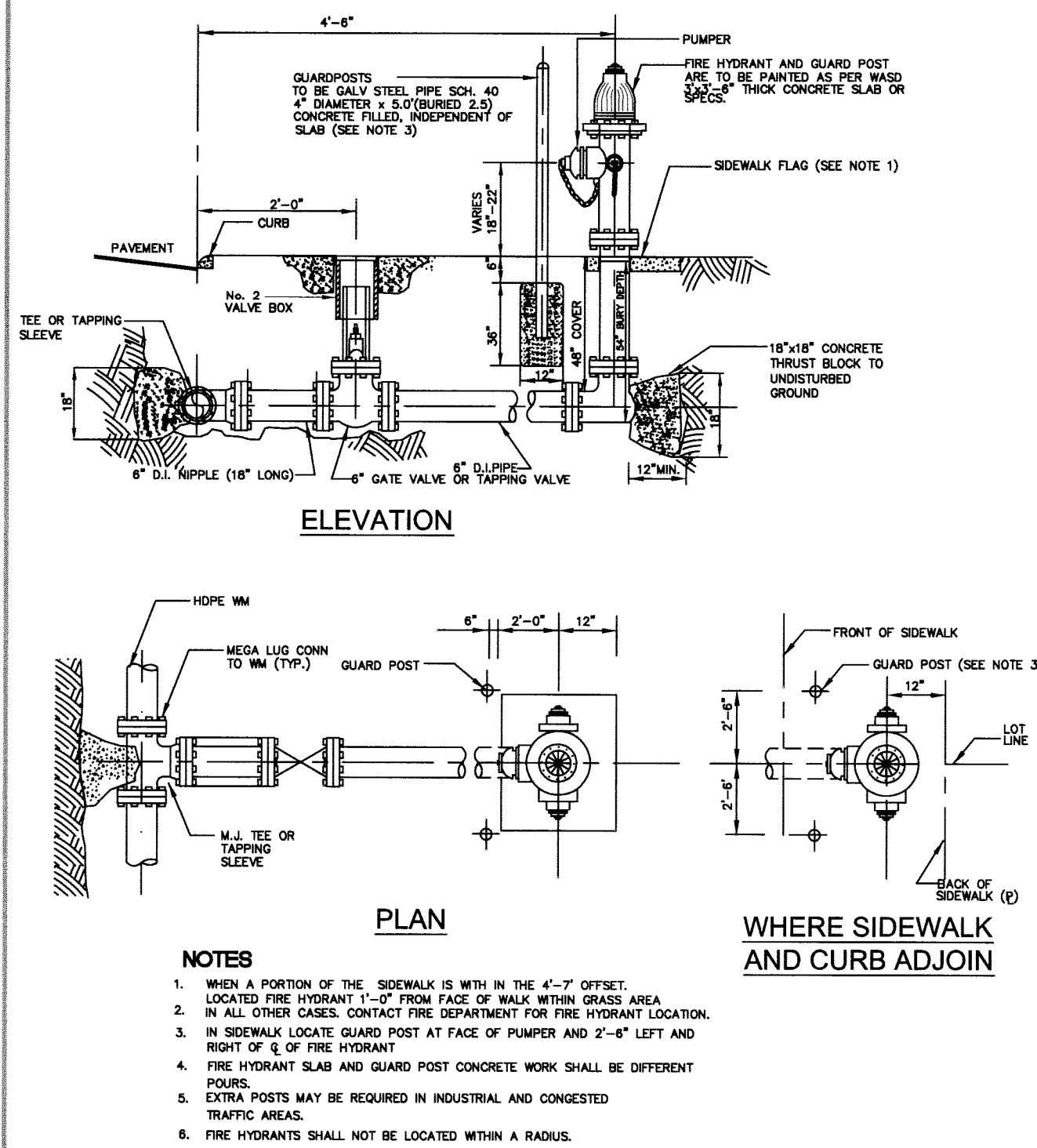
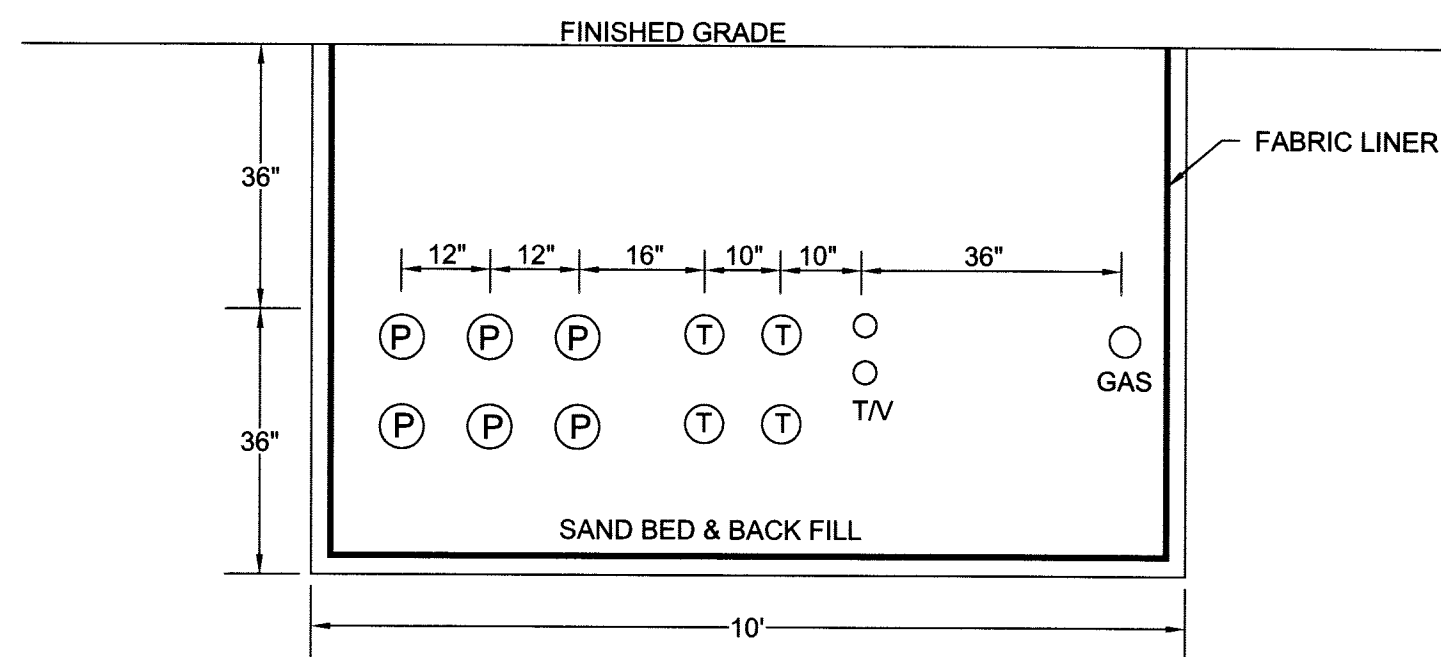
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HALF-SIZE SCALE: 1"=40'

SHEET KEYNOTES

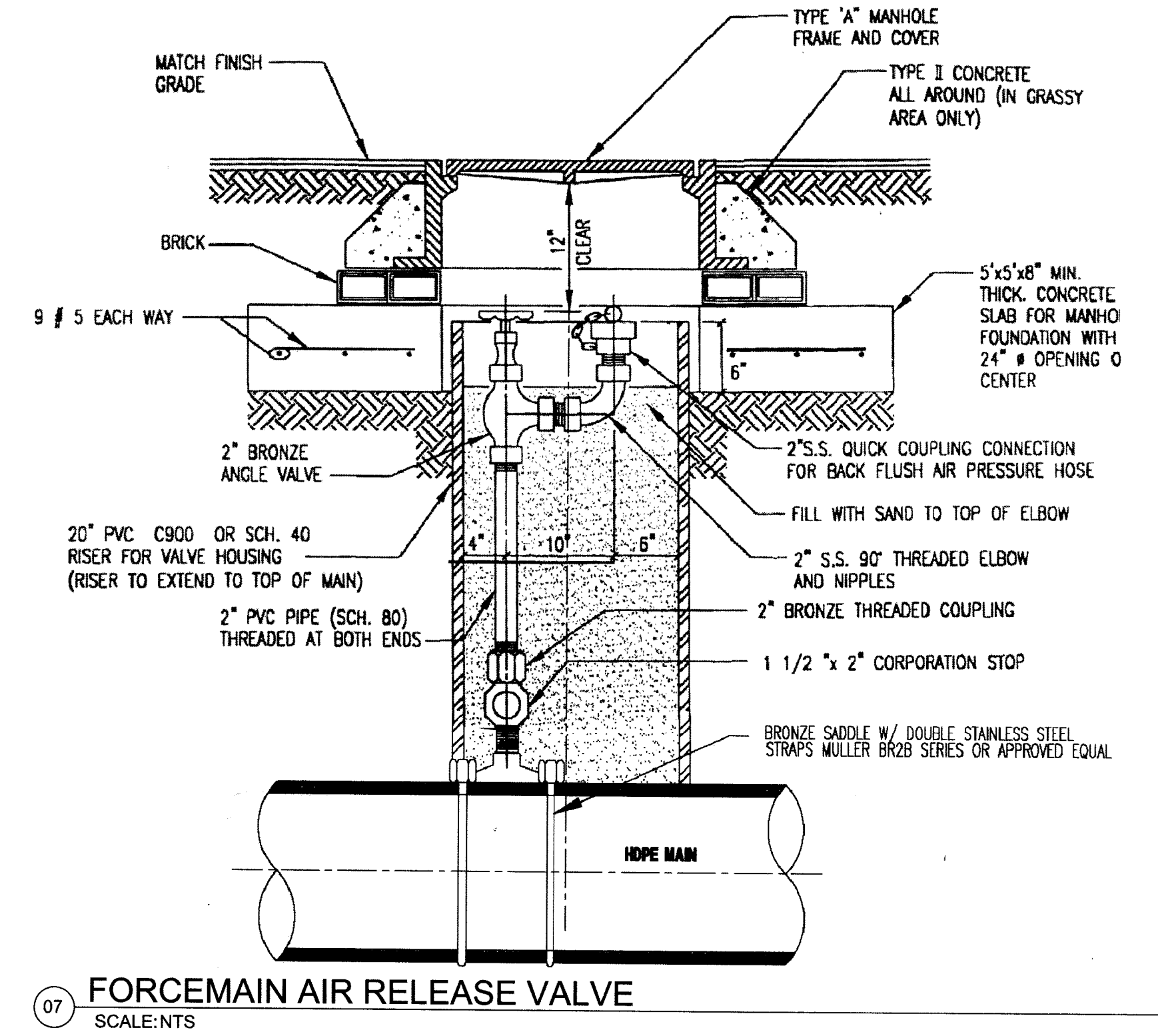
1. REMOVE BLOW-OFF VALVE AND CONNECT TO EXISTING WATER MAIN
2. PROVIDE JUMPER
3. CONNECT TO EXISTING FORCE MAIN

KEY MAP

[illegible]

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D:\CIVIL\PROJECTS\100032762 Biscayne Landing\PLANS\SHEETS\Utility Details.dwg 08/29/2013 11:24:25 AM



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Signature: *[Signature]* Date: 7-2-13
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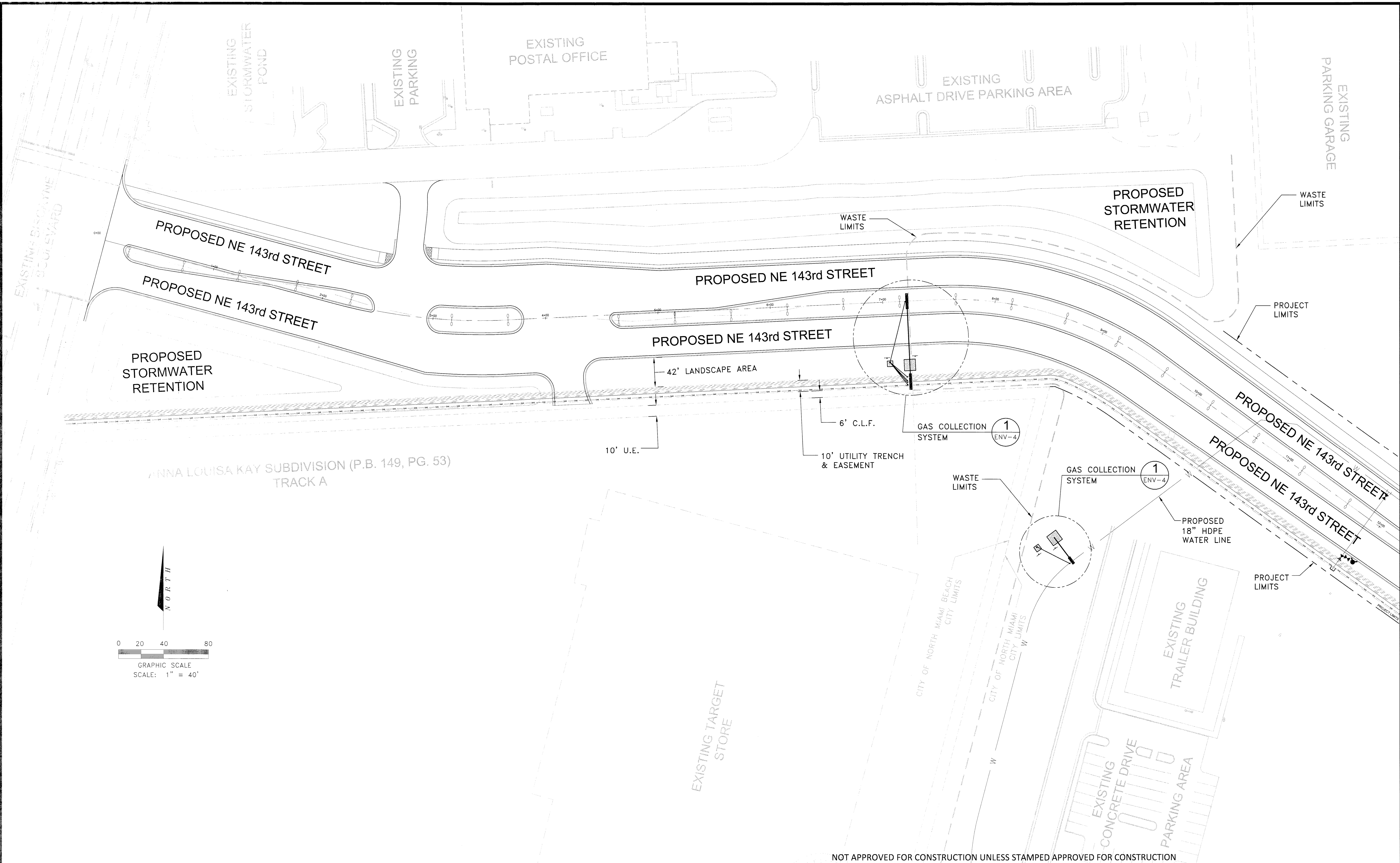
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JOB NO. 100032762
DRAWN _____
DESIGNED _____
CHECKED _____
QC _____

PROJECT **BISCAYNE LANDING BOULEVARD EXTENSION**
SHEET TITLE **UTILITY DETAILS**

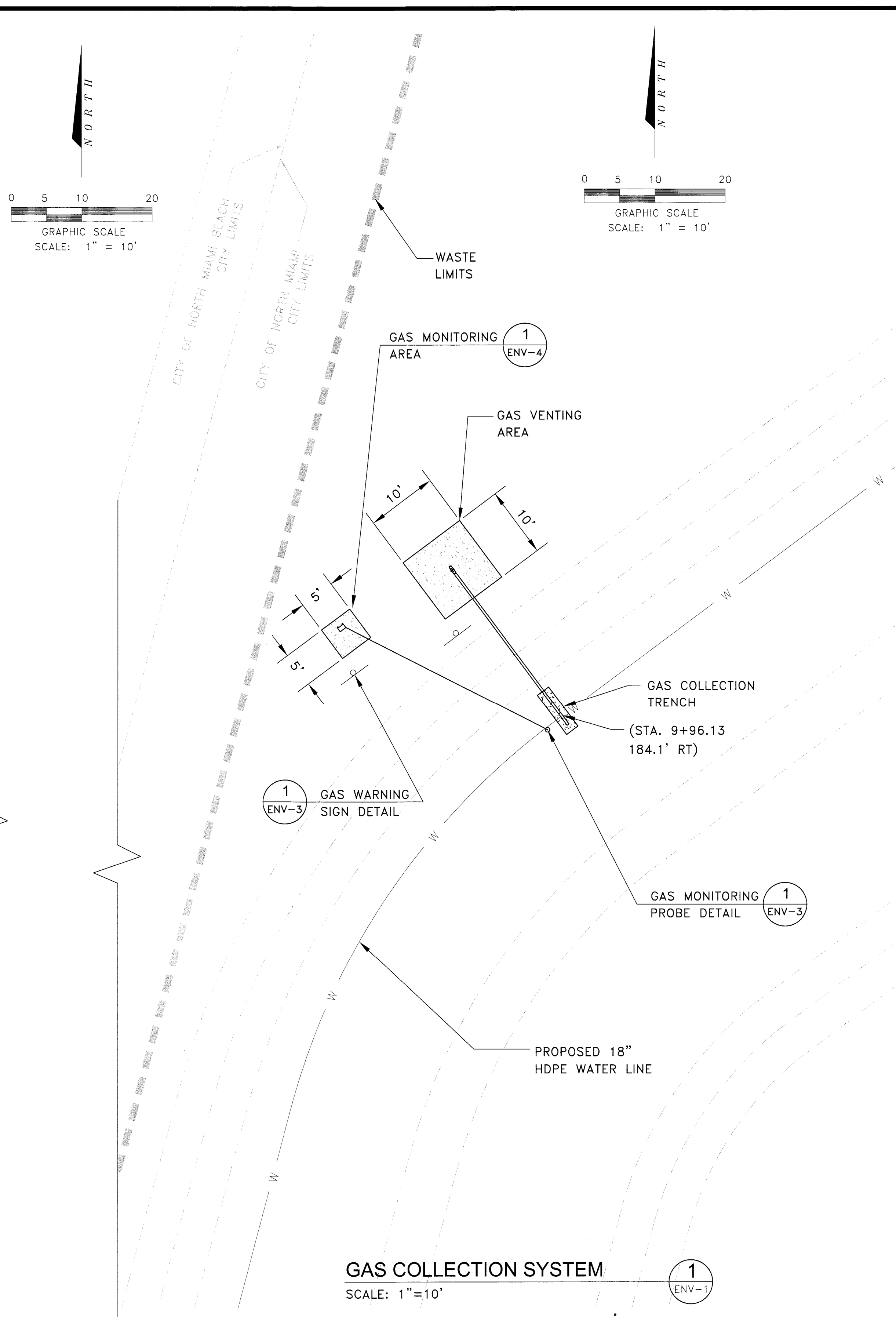
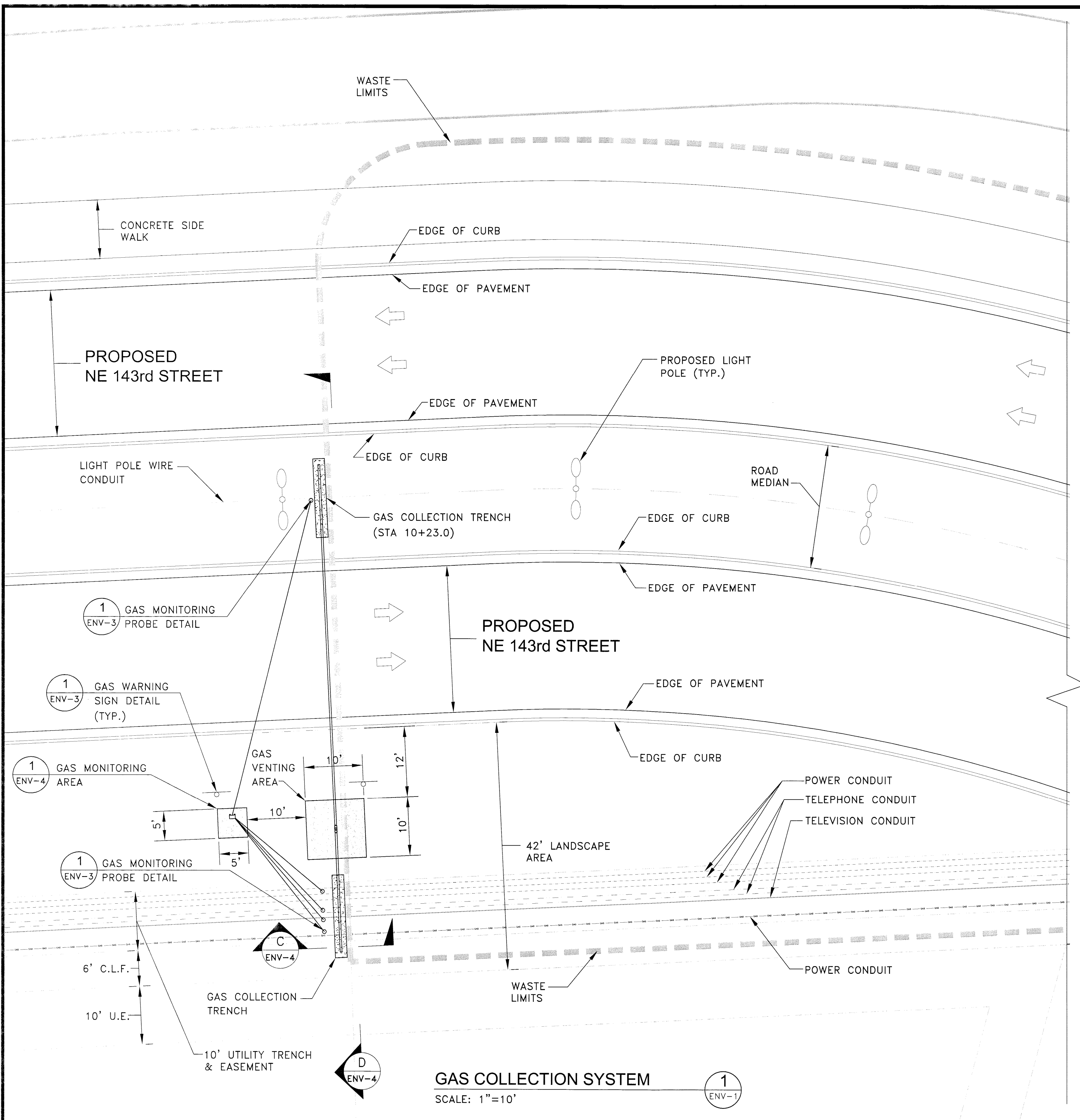
SHEET
C-61

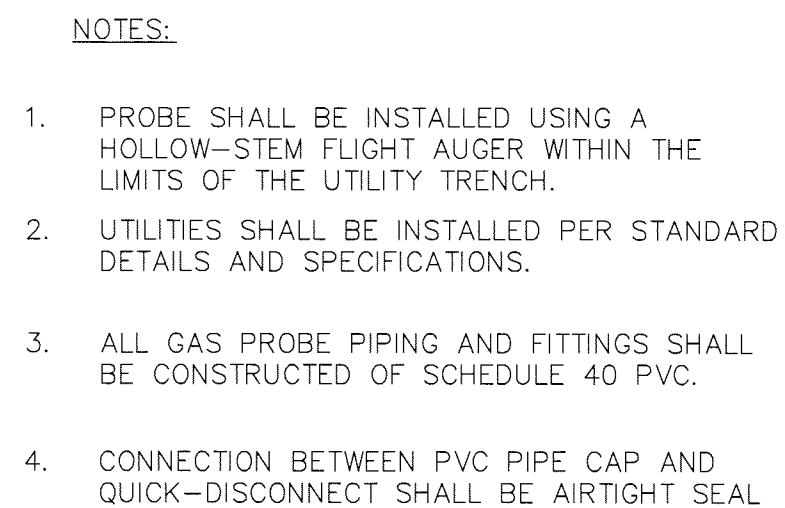
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UNLOH, STEVEN GADDY VASDEVAN BISCAYNE LANDING, 2013 Drawings\ENV-1-2 GAS MANAGEMENT PLAN.dwg 12/10/2013 09:53:21 PM



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			REVISIONS:				DRAWN			
			1				DESIGNED			
			2				CHECKED			





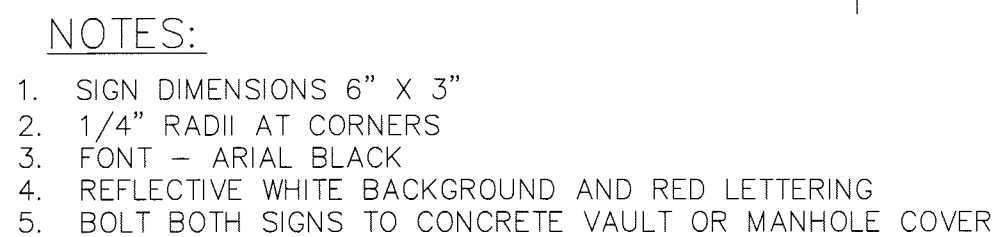
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ENV-2



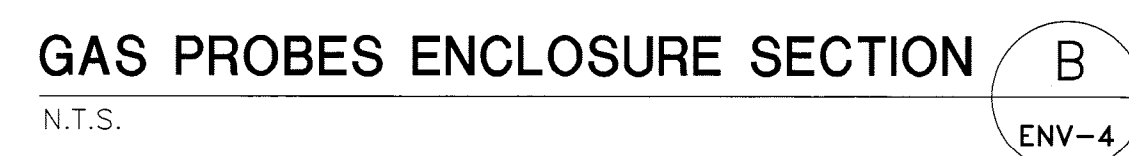
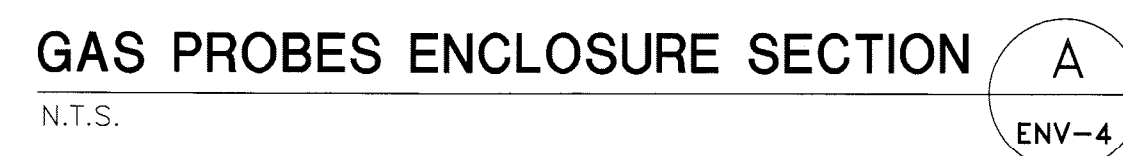
N.T.S.

A
ENV-3



NOT TO SCALE

1
ENV-2



DAVID E. DEANS P.E. NO. 31095

David E. Deans 12/11/2013

Signature Date

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PROJECT	BISCAYNE LANDING BOULEVARD EXTENSION
SHEET TITLE	MISCELLANEOUS DETAILS

SHEET
ENV-4