

BY: ADB -
PLOTTED: Friday, December 23, 2022 AT 11:27 AM
FILE: T:\Gas House Pike\Design Files\pdp-P001.dgn

NOTES:

- EXISTING TOPOGRAPHY AND UNDERGROUND FEATURES DRAWN FROM DESIGN FILES AND APPROVED PLANS FOR "FREDERICK COMMERCE CENTER - GAS HOUSE PIKE WIDENING & LOGISTICS PARK ROAD" CITY OF FREDERICK FILE #PZ-21-00427-03, DATED AUGUST & NOVEMBER 2022, WITH CONSTRUCTION ANTICIPATED TO BE COMPLETED IN 2023.

LEGEND

	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA

NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
4	6" STEEL GAS	644,079.8356	1,213,693.5635	340.8'	345.1'
5	6" STEEL GAS	644,111.7226	1,213,985.9493	344.1'	347.7'
6	6" STEEL GAS	644,113.0137	1,214,027.8190	346.2'	349.4'
7	6" STEEL GAS	644,118.9737	1,214,223.8808	357.4'	361.2'

WB
CONSULTING ENGINEERS

THE
WILSON T.
BALLARD CO.
OWINGS MILLS, MD

CROSS REFERENCE

ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 35+00 TO STA 39+50**

DATE: DECEMBER 2022 SCALE: 1"=30'
FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 16 OF 273

TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
RT. STA. 33+90 TO RT. STA. 34+19 (SWM EMBANKMENT)	96
RT. STA. 34+29 TO RT. STA. 35+48 (SLOPE)	299
RT. STA. 36+55 TO RT. STA. 39+54 (BERM DITCH)	200
LT. STA. 37+12 TO LT. STA. 39+50 (BERM DITCH)	159

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.11-01)	
LOCATION - STATION	LF
RT. STA. 36+78 TO STA. 39+50	273
RT. STA. 37+60 TO STA. 39+50	191

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
I-103	17
MH-104	3
I-107	16
MH-105	1
I-108	3

CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
EW-109	22
ES-100	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
EW-109	9
ES-100	8

5 INCH CONCRETE DITCH	
LOCATION - STATION	SY
I-102	4

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
RT. STA. 36+08 TO STA. 36+46	38

ACCESS ROAD WITH CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM	
LOCATION - STATION	SY
ESD #FCXXBMP001095	1071

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 34+85 TO STA. 39+50	1245

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH CUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
RT. STA. 34+88 TO STA. 35+98	110
RT. STA. 36+53 TO STA. 39+50	297
LT. STA. 37+14 TO STA. 39+50	236

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)	
LOCATION - STATION	LF
RT. STA. 38+84 TO STA. 39+50	66

TRAFFIC BARRIER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)	
LOCATION - STATION	EA
RT. STA. 38+34 TO STA. 38+84	1
LT. STA. 38+34 TO STA. 38+84	1

TRAFFIC BARRIER THREE-BEAM ANCHORAGE TO VERTICAL FACE (MD 605.41)	
LOCATION - STATION	EA
LT. STA. 38+84 TO STA. 39+30	1

6 FOOT GALVANIZED CHAIN LINK FENCE (MD 690.01)	
LOCATION - STATION	LF
ESD #FCXXBMP001095	475

TERMINAL POST FOR 6 FOOT GALVANIZED CHAIN LINK FENCE (MD 690.01)	
LOCATION - STATION	EA
ESD #FCXXBMP001095	8

12 FOOT GATE FOR 6 FOOT GALVANIZED CHAIN LINK FENCE (MD 692.01)	
LOCATION - STATION	EA
ESD #FCXXBMP001095	1

4 FOOT FARM TYPE FENCE (MD 690.03)	
LOCATION - STATION	LF
RT. STA. 36+37 TO STA. 39+45	309

PS-1

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NOTES:

1. OFFSET TRAFFIC BARRIER 5'-0" FROM EDGE OF PAVEMENT TO AVOID UTILITY CONFLICTS.
2. REFER TO STRUCTURES SHEETS FOR ROCK FALL STRUCTURES AND WORK TO BE INCLUDED UNDER THESE ITEMS.

LEGEND

- | | |
|--|---|
| | CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.) |
| | FULL DEPTH CONSTRUCTION |
| | RESURFACING |
| | GRAVEL ENTRANCE |
| | BIO-SWALE / BIO-RETENTION |
| | PAVEMENT REMOVAL |
| | CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM |

TEST HOLE DATA

NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
8	6" STEEL GAS	644,116.1974	1,214,534.8263	379.7'	383.5'
9	6" STEEL GAS	644,083.9900	1,214,733.6578	383.4'	387.6'

WB

THE
WILSON T.
BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE

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FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 39+50 TO STA 46+50

DATE: DECEMBER 2022 SCALE: 1"=30'
FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 17 OF 273

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
G-3	15° 42' 29"	3° 49' 11"	1500.00'	206.92'	411.24'	14.20'
G-4	1° 52' 46"	0° 34' 23"	10000.00'	164.02'	328.01'	1.35'

6 INCH PERFORATED CIRCULAR PIPE
LONGITUDINAL UNDERDRAIN (MD 387.11-01)

LOCATION - STATION	LF
LT. STA. 39+50 TO STA. 40+50	100
RT. STA. 39+50 TO STA. 41+30	180
RT. STA. 41+37 TO STA. 44+50	310
RT. STA. 44+52 TO STA. 44+87	34

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)

LOCATION - STATION	LF
RT. STA. 41+35 TO STA. 42+05	77
RT. STA. 44+87	7

CLASS I RIPRAP DITCH

LOCATION - STATION	SY
ES-202	9
ES-205	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH

LOCATION - STATION	LF
ES-202	8
ES-205	8

5 INCH CONCRETE DITCH

LOCATION - STATION	SY
I-203	4
I-206	4

REMOVAL OF EXISTING PIPE

LOCATION - STATION	LF
RT. STA. 44+97 TO STA. 45+41 (UNK. CMP)	44

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH

LOCATION - STATION	SY
STA. 39+50 TO STA. 46+50	1499
RT. STA. 44+78 TO STA. 45+10 (DRIVEWAY)	58

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER
12 INCH GUTTER PAN, 8 INCH DEPTH (MD 620.02)

LOCATION - STATION	LF
RT. STA. 39+50 TO STA. 44+87	537
LT. STA. 44+50 TO STA. 44+85	36

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)

LOCATION - STATION	LF
RT. STA. 39+50 TO STA. 40+50	100
RT. STA. 42+77 TO STA. 44+00	121
RT. STA. 45+55 TO STA. 46+50	77
LT. STA. 45+73 TO STA. 46+50	104

TRAFFIC BARRIER W-BEAM ONE-SIDED
END TREATMENT (TYPE C) (MD 605.03)

LOCATION - STATION	EA
RT. STA. 44+00 TO STA. 44+50	1
LT. STA. 45+23 TO STA. 45+73	1

TRAFFIC BARRIER W-BEAM RADIUS
END TREATMENT (TYPE L) (MD 605.13)

LOCATION - STATION	EA
LT. STA. 44+85	1
RT. STA. 45+70	1

TRAFFIC BARRIER THRE-BEAM ANCHORAGE
TO VERTICAL FACE (MD 605.41)

LOCATION - STATION	EA
RT. STA. 44+50 TO STA. 44+97	1

REMOVAL AND DISPOSAL OF EXISTING
TRAFFIC BARRIER W-BEAM

LOCATION - STATION	LF
RT. STA. 45+49 TO STA. 46+50	105
LT. STA. 45+33 TO STA. 46+50	120

TYPE A SOIL STABILIZATION MATTING

LOCATION - STATION	SY
LT. STA. 39+50 TO STA. 44+79 (BERM DITCH)	366
RT. STA. 44+44 TO STA. 44+81 (BERM DITCH)	25
LT. STA. 45+25 TO STA. 46+50 (SLOPE)	299
RT. STA. 45+48 TO STA. 46+50 (SLOPE)	173

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MH-105	1
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LOCATION - STATION	SY
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EW-109	9
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5 INCH CONCRETE DITCH	
LOCATION - STATION	SY
I-102	4

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
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ACCESS ROAD WITH CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM	
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TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)	
LOCATION - STATION	LF
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TRAFFIC BARRIER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)	
LOCATION - STATION	EA
RT. STA. 38+34 TO STA. 38+84	1
LT. STA. 38+34 TO STA. 38+84	1

TRAFFIC BARRIER THREE-BEAM ANCHORAGE TO VERTICAL FACE (MD 605.41)	
LOCATION - STATION	EA
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**GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 39+50 TO STA 46+50**

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FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 17 OF 273

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6 INCH PERFORATED CIRCULAR PIPE
LONGITUDINAL UNDERDRAIN (MD 387.11-01)

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RT. STA. 44+52 TO STA. 44+87	34

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)

LOCATION - STATION	LF
RT. STA. 41+35 TO STA. 42+05	77
RT. STA. 44+87	7

CLASS I RIPRAP DITCH

LOCATION - STATION	SY
ES-202	9
ES-205	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH

LOCATION - STATION	LF
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5 INCH CONCRETE DITCH

LOCATION - STATION	SY
I-203	4
I-206	4

REMOVAL OF EXISTING PIPE

LOCATION - STATION	LF
RT. STA. 44+97 TO STA. 45+41 (UNK. CMP)	44

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH

LOCATION - STATION	SY
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RT. STA. 44+00 TO STA. 44+50	1
LT. STA. 45+23 TO STA. 45+73	1

TRAFFIC BARRIER W-BEAM RADIUS
END TREATMENT (TYPE L) (MD 605.13)

LOCATION - STATION	EA
LT. STA. 44+85	1
RT. STA. 45+70	1

TRAFFIC BARRIER THREE-BEAM ANCHORAGE
TO VERTICAL FACE (MD 605.41)

LOCATION - STATION	EA
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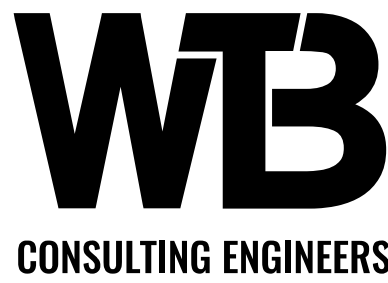
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TO AVOID UTILITY CONFLICTS.

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C6303.6303.01 (C28391) DWG. 18 OF 273

CURVE DATA					
CURVE	DELTA	Dc	RADIUS	TANGENT	EXTERNAL
G-4	1° 52' 46"	0° 34' 23"	10000.00'	164.02'	328.01'

TYPE A SOIL STABILIZATION MATTING

LOCATION - STATION	SY
RT. STA. 46+50 TO STA. 47+38 (SLOPE)	249
LT. STA. 46+50 TO STA. 50+78 (SLOPE)	1175
RT. STA. 47+62 TO STA. 49+64 (SLOPE & SWM EMBANKMENT)	1141
RT. STA. 49+17 TO STA. 49+89 (SWM EMBANKMENT)	83
RT. STA. 50+81 TO STA. 51+56 (SLOPE)	95
LT. STA. 51+06 TO STA. 52+26 (SLOPE)	151
LT. STA. 52+46 TO STA. 52+89 (SLOPE)	41

CLASS I RIPRAP DITCH

LOCATION - STATION	SY
EW-200	19
ES-207	9
ES-224	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH

LOCATION - STATION	LF
EW-200	14
ES-207	8
ES-224	8

5 INCH CONCRETE DITCH

LOCATION - STATION	SY
I-209	4
I-218	4
I-223	8

REMOVAL OF EXISTING PIPE

LOCATION - STATION	LF
RT. STA. 46+51 (27" X 40" CMPA)	11
LT. STA. 46+51 (27" X 40" CMPA)	15
RT. STA. 50+48 TO STA 50+85 (UNK. CMP)	37
LT. STA. 50+72 TO STA. 51+06 (15" CMP)	34

FLOWABLE BACKFILL FOR PIPE ABANDONMENT

LOCATION - STATION	CY
LT. + RT. STA. 46+51 (27" X 40" CMPA)	10

ACCESS ROAD WITH CELLULAR CONFINEMENT
LOAD SUPPORT SYSTEM

LOCATION - STATION	SY
ESD 2-2	335

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH

LOCATION - STATION	SY
STA. 46+50 TO STA. 53+00	1403
LT. STA. 50+77 TO STA. 51+04 (DRIVEWAY)	15

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)

LOCATION - STATION	LF
RT. STA. 46+50 TO STA. 47+40	96
LT. STA. 46+50 TO STA. 50+29	379
RT. STA. 47+60 TO STA. 50+00	246

TRAFFIC BARRIER W-BEAM ONE-SIDED
END TREATMENT (TYPE C) (MD 605.03)

LOCATION - STATION	EA
RT. STA. 50+00 TO STA. 50+50	1
LT. STA. 50+29 TO STA. 50+79	1

TRAFFIC BARRIER W-BEAM RADIUS
END TREATMENT (TYPE L) (MD 605.13)

LOCATION - STATION	EA
RT. STA. 47+32	1
RT. STA. 47+68	1

REMOVAL AND DISPOSAL OF EXISTING
TRAFFIC BARRIER W-BEAM

LOCATION - STATION	LF
RT. STA. 46+50 TO STA. 50+54	408
LT. STA. 46+50 TO STA. 50+80	432

6 FOOT GALVANIZED CHAIN LINK FENCE (MD 690.01)

LOCATION - STATION	LF
ESD 2-2	609

TERMINAL POST FOR 6 FOOT GALVANIZED
CHAIN LINK FENCE (MD 690.01)

LOCATION - STATION	EA
ESD 2-2	9

12 FOOT GATE FOR 6 FOOT GALVANIZED
CHAIN LINK FENCE (MD 692.01)

LOCATION - STATION	EA
ESD 2-2	1

PS-3

BY: ADB -
PLOTTED: Friday, December 23, 2022 AT 11:36 AM
FILE: T:\Gas House Pike\Design Files\pdp-P004_gps.dgn

- LEGEND**
- CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
 - FULL DEPTH CONSTRUCTION
 - RESURFACING
 - GRAVEL ENTRANCE
 - BIO-SWALE / BIO-RETENTION
 - PAVEMENT REMOVAL
 - CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
11	6" STEEL GAS	643,866.0558	1,215,709.2586	422.1'	425.9'
11A	6" STEEL GAS	643,792.4854	1,216,051.4187	442.6'	446.1'

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CROSS REFERENCE	
ITEM	SHEET NOs.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGGING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 53+00 TO STA 59+00

DATE: DECEMBER 2022 SCALE: 1"=30'
FREDERICK COUNTY PROJECT NO.: 6C303.6303.01 (C28391) DWG. 19 OF 273

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
G-5A	0° 45' 41"	1° 25' 57"	4000.00'	26.58'	53.15'	0.09'
G-5B	2° 24' 41"	0° 34' 20"	10011.00'	210.69'	421.33'	2.22'

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.11-01)	
LOCATION - STATION	LF
LT. STA. 53+13 TO STA. 57+98	484
LT. STA. 58+14 TO STA. 59+00	86

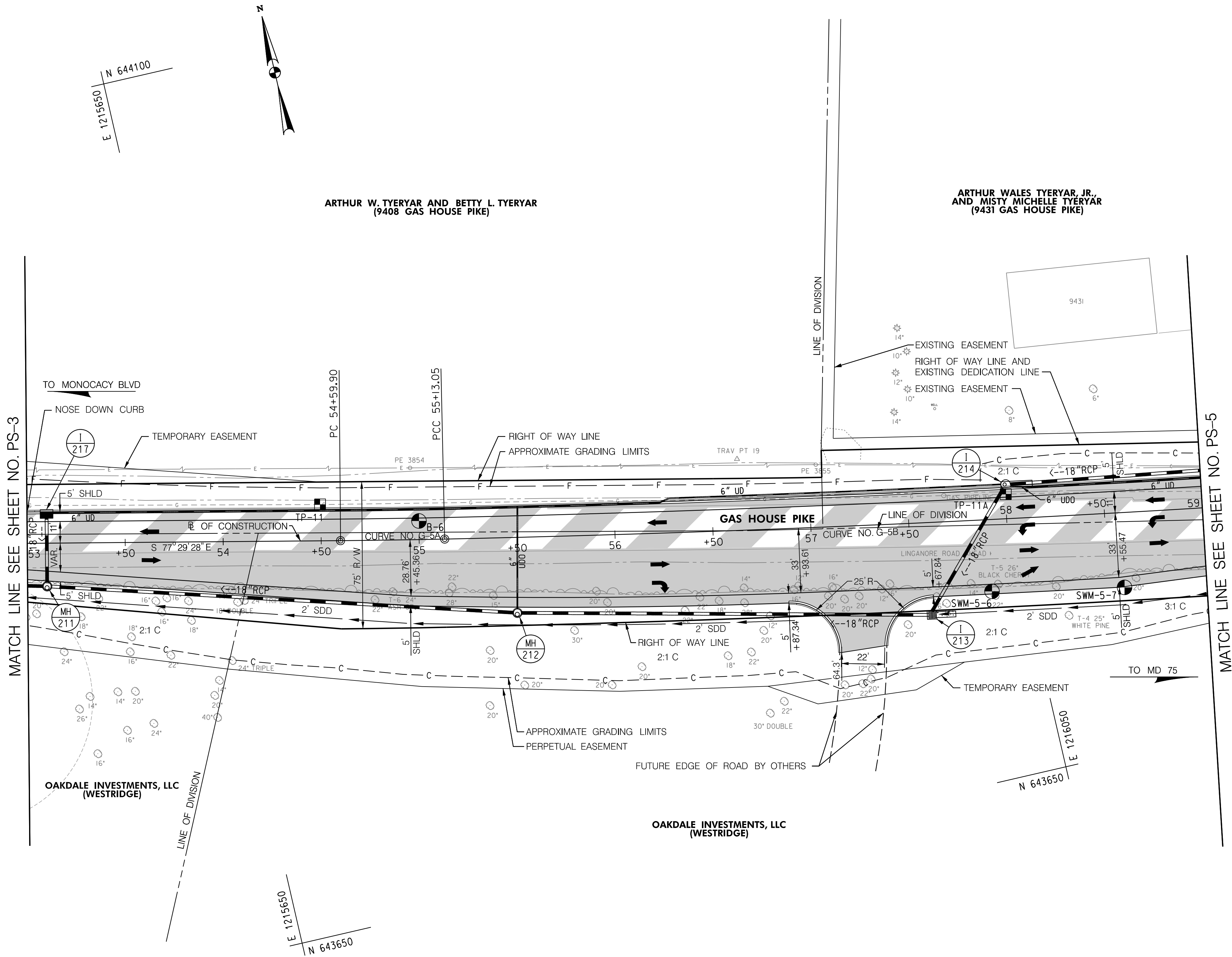
6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
MH-212	52
I-214	12

5 INCH CONCRETE DITCH	
LOCATION - STATION	SY
I-213	4

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
RT. STA. TO STA.	1348

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH CUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
LT. STA. 53+00 TO STA. 59+00	600
RT. STA. 56+87 TO STA. 57+12	40
RT. STA. 57+36 TO STA. 57+61	38

TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
RT. STA. 52+95 TO STA. 58+64 (SLOPE)	1278
LT. STA. 57+85 TO STA. 59+00 (SLOPE)	171



PS-4

UTILITY ADJUSTMENTS BY CONTRACTOR			
UTILITY	LOCATION - STATION	EX. ELEV.	PROP. ELEV.
WASH. GAS VENT	STA. 61+60, 13.5' LT.	449.54	450.12
WASH. GAS HOUSE CONN.	STA. 61+25 TO STA. 61+65, LT.	DET. IN FIELD	DET. IN FIELD
WASH. GAS VENT	STA. 64+83.1, 13.7' LT.	456.90	459.01

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
G-5B	2°24'41"	0°34'20"	10011.00'	210.69'	421.33'	2.22'
G-5C	1°59'49"	1°25'57"	4000.00'	69.72'	139.42'	0.61'
G-5D	0°35'55"	0°42'55"	8011.00'	41.84'	83.68'	0.11'
G-6	1°24'54"	0°42'58"	8000.00'	98.79'	197.57'	0.61'
L-1	0°59'23"	1°54'35"	3000.00'	25.91'	51.82'	0.11'

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.11-01)	
LOCATION - STATION	LF
LT. STA. 59+00 TO STA. 61+12	212
RT. STA. 64+02 TO STA. 65+39	137

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
I-215	12
MH-305	1
I-307	7

CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
ES-300	12
EW-302	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
ES-300	11
EW-302	12

5 INCH CONCRETE DITCH	
LOCATION - STATION	SY
I-216	4
I-301	8
I-306	4

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
LT. STA. 61+40 TO STA. 61+63 (UNK. CMP)	23
RT. STA. 62+72 TO STA. 62+94 (UNK. CMP)	22
RT. STA. 65+12 TO STA. 65+33 (8" CMP)	21

ACCESS ROAD WITH CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM	
LOCATION - STATION	SY
ESD 3-I	70

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 59+00 TO STA. 65+50	1501
STA. 10+15 TO STA. 11+50	383
RT. STA. 62+69 TO STA. 62+98 (SWM ACCESS ROAD)	22
RT. STA. 65+11 TO STA. 65+35 (DRIVEWAY)	23

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
LT. STA. 59+00 TO STA. 61+39	245
RT. STA. 62+98 TO STA. 65+11	213
RT. STA. 65+35 TO STA. 65+50	15

6 FOOT GALVANIZED CHAIN LINK FENCE (MD 690.01)	
LOCATION - STATION	LF
ESD 3-I	583

TERMINAL POST FOR 6 FOOT GALVANIZED CHAIN LINK FENCE (MD 690.01)	
LOCATION - STATION	EA
ESD 3-I	11

12 FOOT GATE FOR 6 FOOT GALVANIZED CHAIN LINK FENCE (MD 692.01)	
LOCATION - STATION	EA
ESD 3-I	1

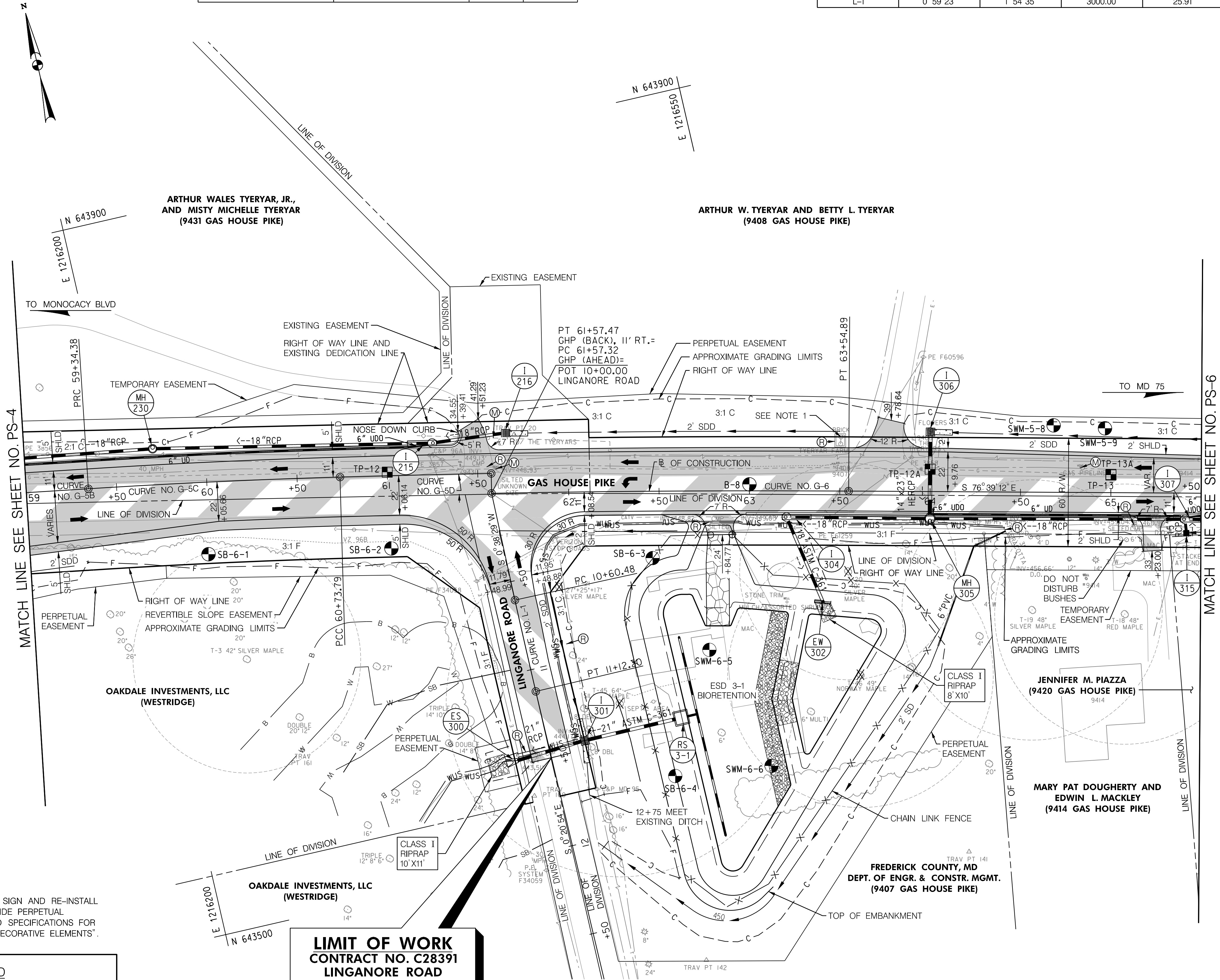
TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
LT. STA. 59+00 TO STA. 59+87 (SLOPE)	82
RT. STA. 59+86 TO RT. STA. 10+75 (SLOPE)	287
LT. STA. 10+89 TO STA. 11+82 (SWM EMBANKMENT)	109
LT. STA. 61+68 TO STA. 63+67 (SLOPE)	284

PS-5

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 59+00 TO STA 65+50**

DATE: DECEMBER 2022 SCALE: 1"=30'
FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 20 OF 273



- NOTES:
- SALVAGE EXISTING FARM SIGN AND RE-INSTALL NEXT TO DRIVEWAY OUTSIDE PERPETUAL EASEMENT LINE. REFER TO SPECIFICATIONS FOR "SALVAGE OF EXISTING DECORATIVE ELEMENTS".

LEGEND	
	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA				
NO.	UTILITY	NORTHING	EASTING	SURFACE ELEVATION
12	6" STEEL GAS	643,729.2342	1,216,344.6984	444.9'
12A	6" ST. GAS / 2" PLA. GAS	643,663.2638	1,216,637.7847	449.0'
13	2" PLASTIC GAS	643,637.6116	1,216,734.5180	455.7'
13A	6" STEEL GAS	643,637.9327	1,216,734.5942	454.7'

WB THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE	
ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

UTILITY ADJUSTMENTS BY CONTRACTOR			
UTILITY	LOCATION - STATION	EX. ELEV.	PROP. ELEV.
WASH. GAS HOUSE CONN.	STA. 67+45, RT.	DET. IN FIELD	DET. IN FIELD
WASH. GAS HOUSE CONN.	STA. 69+53, RT.	DET. IN FIELD	DET. IN FIELD
WASH. GAS MANHOLE	STA. 71+13.4, 19.4 LT.	495.15	495.65

CURVE DATA					
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH
G-7	7°00'38"	1°54'35"	3000.00'	183.77'	367.07'

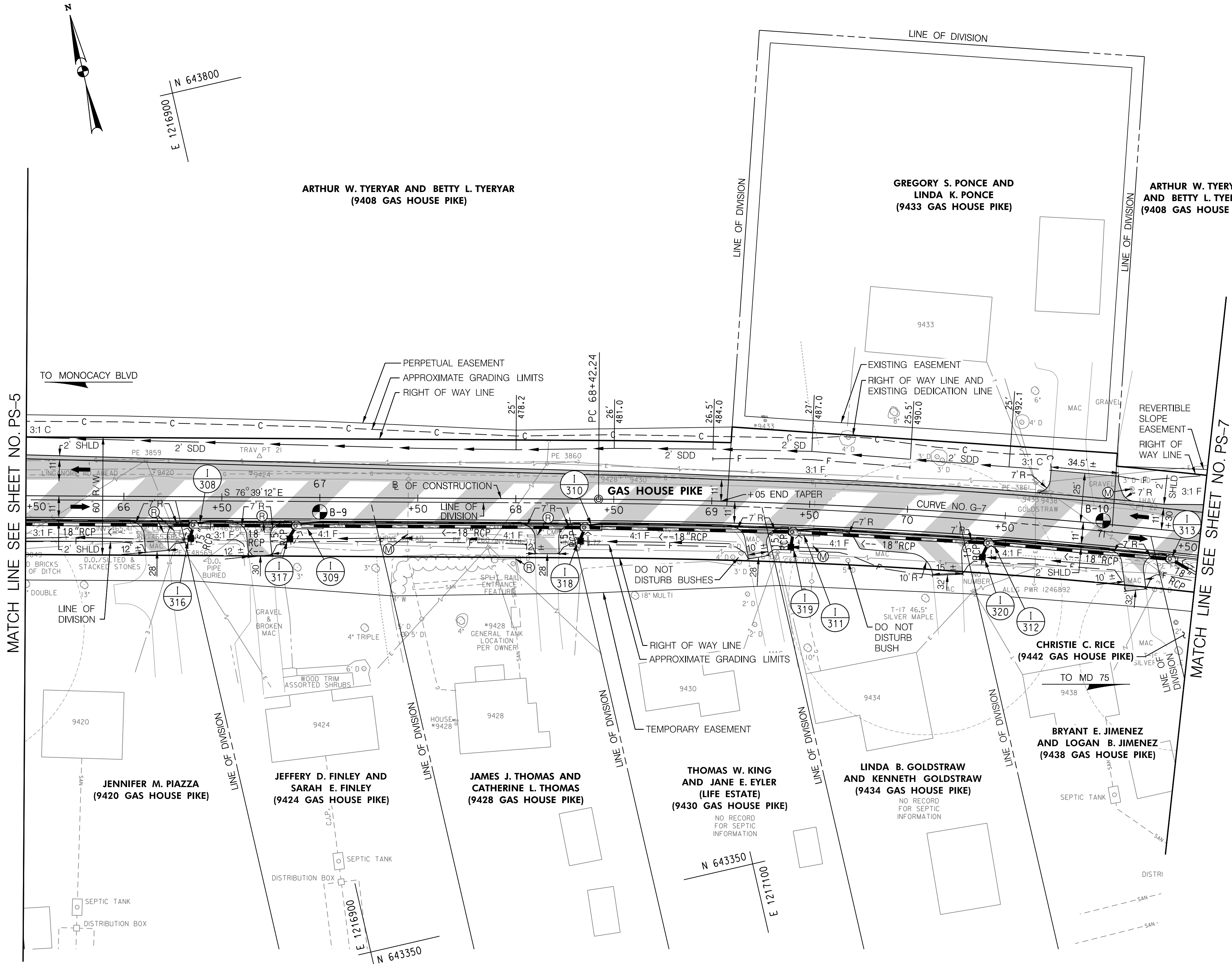
6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.01)	
LOCATION - STATION	LF
RT. STA. 65+50 TO STA. 66+33	84
RT. STA. 66+44 TO STA. 66+86	42
RT. STA. 67+02 TO STA. 68+33	131
RT. STA. 68+44 TO STA. 69+40	95
RT. STA. 69+56 TO STA. 70+40	84
RT. STA. 70+51 TO STA. 71+34	82

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
I-308	7
I-309	12
I-310	7
I-311	12
I-312	7

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
RT. STA. 66+07 TO STA. 66+26 (12" CMP)	19
RT. STA. 66+60 TO STA. 66+78 (12" CMP)	18
RT. STA. 68+06 TO STA. 68+26 (12" CMP)	20

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 65+50 TO STA. 71+50	1350
RT. STA. 66+03 TO STA. 66+29 (DRIVEWAY)	22
RT. STA. 66+56 TO STA. 66+82 (DRIVEWAY)	25
RT. STA. 68+03 TO STA. 68+29 (DRIVEWAY)	22
RT. STA. 69+11 TO STA. 69+36 (DRIVEWAY)	20
RT. STA. 69+68 TO STA. 70+36 (DRIVEWAY)	76
RT. STA. 71+05 TO STA. 71+30 (DRIVEWAY)	25

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
RT. STA. 65+50 TO STA. 66+03	53
RT. STA. 66+29 TO STA. 66+56	27
RT. STA. 66+82 TO STA. 68+03	21
RT. STA. 68+29 TO STA. 69+11	82
RT. STA. 69+36 TO STA. 69+68	32
RT. STA. 70+36 TO STA. 71+05	69
RT. STA. 71+30 TO STA. 71+50	20



LEGEND	
	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

WB THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE	
ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

PS-6

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 65+50 TO STA 71+50

DATE: DECEMBER 2022 SCALE: 1"=30'

FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 21 OF 273

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
G-7	7°00'38"	1°54'36"	3000.00'	183.77'	367.07'	5.62'
G-8	41°54'44"	7°09'43"	800.00'	306.39'	585.20'	56.66'

CLASS I RIPRAP DITCH		
LOCATION - STATION		SY
EW-400		8

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH		
LOCATION - STATION		LF
EW-400		7

5 INCH CONCRETE DITCH		
LOCATION - STATION		SY
I-401		8

REMOVAL OF EXISTING PIPE		
LOCATION - STATION		LF
RT. STA. 74+91 TO STA. 74+92 (12" RCP)		9
LT. STA. 74+94 TO STA. 74+97 (12" RCP)		15

FLOWABLE BACKFILL FOR PIPE ABANDONMENT		
LOCATION - STATION		CY
RT. STA. 74+92 TO LT. STA. 74+94 (12" RCP)		1

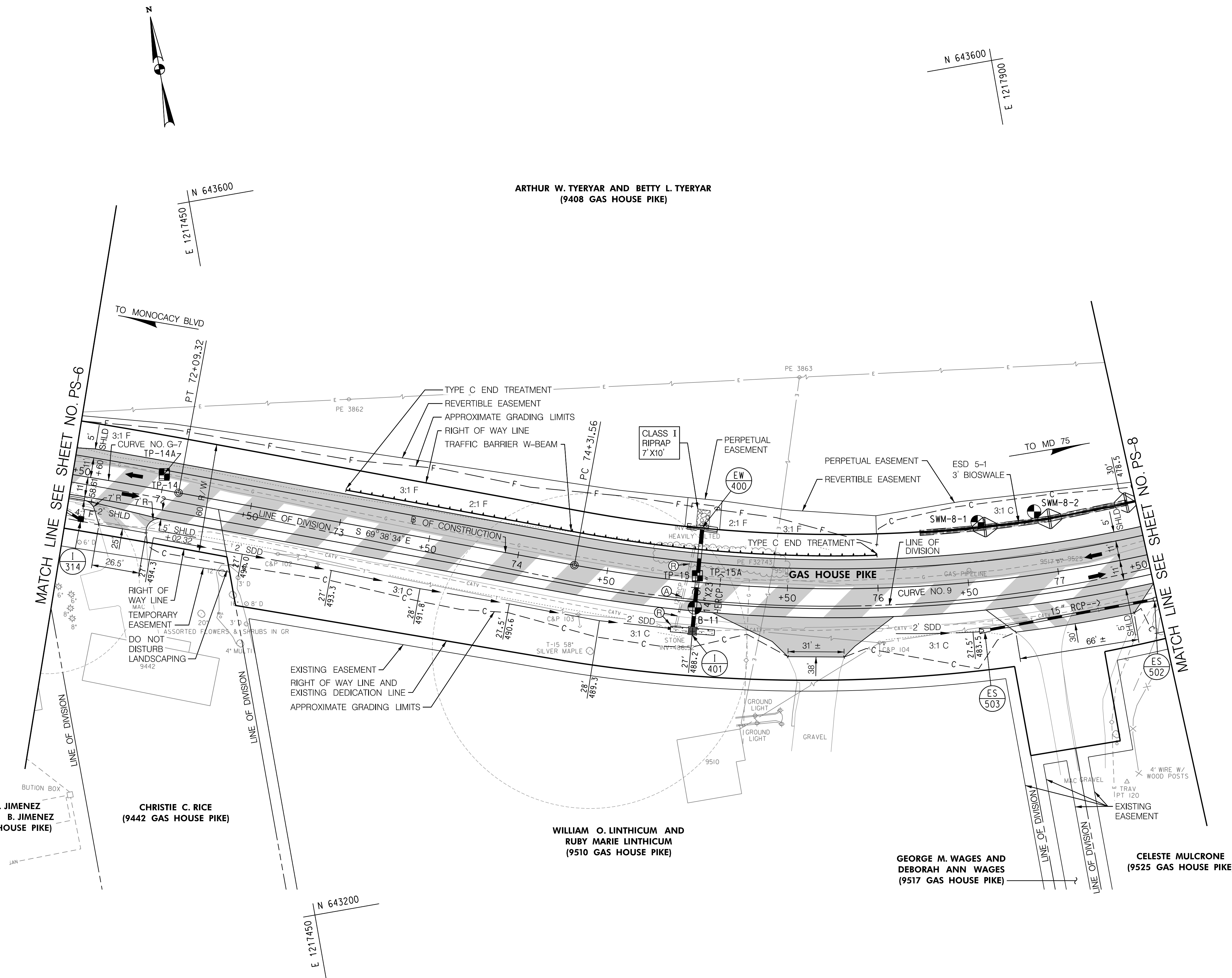
FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH		
LOCATION - STATION		SY
STA. 71+50 TO STA. 77+50		1252
RT. STA. 71+59 TO STA. 72+02 (DRIVEWAY)		35
RT. STA. 76+58 TO STA. 77+04 (DRIVEWAY)		60

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH CUTTER PAN, 8 INCH DEPTH (MD 620.02)		
LOCATION - STATION		LF
RT. STA. 71+50 TO STA. 71+59		9

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)		
LOCATION - STATION		LF
LT. STA. 73+50 TO STA. 75+50		196

TRAFFIC BARRER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)		
LOCATION - STATION		EA
LT. STA. 73+00 TO STA. 73+50		1
LT. STA. 75+50 TO STA. 76+00		1

TYPE A SOIL STABILIZATION MATTING		
LOCATION - STATION		SY
LT. STA. 72+71 TO STA. 75+76		511



LEGEND	
	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
14	6" STEEL GAS	643,453.6935	1,217,410.2251	490.9'	495.5'
14A	2" PLASTIC GAS	643,454.5570	1,217,410.5424	491.7'	495.5'
15	2" PLASTIC GAS	643,347.7738	1,217,690.5771	484.9'	488.3'
15A	6" STEEL GAS	643,347.9377	1,217,690.6224	484.1'	488.3'

WB THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE	
ITEM	SHEET NOs.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

PS-7

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 71+50 TO STA 77+50

DATE: DECEMBER 2022 SCALE: 1"=30'

FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 22 OF 273

BY: ADB -
PLOTED: Friday, December 23, 2022 AT 11:42 AM
FILE: T:\Gas House Pike\Design Files\pdp-P008.gps.dgn

LEGEND

	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA

NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
16	6" STEEL GAS	643,349.1393	1,218,092.9598	473.8'	478.8'
16A	UG CATV /UG ELEC	643,322.9694	1,218,099.2731	477.0'	479.3'
17	6" STEEL GAS	643,470.1526	1,218,408.8857	469.8'	473.5'

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BALLARD CO.**
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE

ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE FROM FREDERICK CITY LIMITS TO BOYERS MILL ROAD ROADWAY PLAN STA 77+50 TO STA 84+00

DATE: DECEMBER 2022 SCALE: 1"=30'
FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 23 OF 273

CURVE DATA					
CURVE	DELTA	Dc	RADIUS	TANGENT	EXTERNAL
G-8	41°54'44"	7°09'44"	800.00'	306.39'	585.20'
G-9	19°48'50"	8°48'53"	650.00'	113.52'	224.78'

10 FOOT TUBULAR STEEL GATE	
LOCATION - STATION	EA
RT. STA. 81+65	2

TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
RT. STA. 77+42 TO STA. 79+77 (SLOPE)	261
LT. STA. 77+53 TO STA. 79+43 (SLOPE)	357
LT. STA. 82+53 TO STA. 83+29 (SLOPE)	83
RT. STA. 82+97 TO STA. 84+00 (SLOPE)	188

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.11-01)	
LOCATION - STATION	LF
LT. STA. 80+00 TO STA. 82+61	261
RT. STA. 81+50 TO STA. 82+66	116

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
LT. STA. 81+74 TO STA. 81+91	15
LT. STA. 82+60	9
RT. STA. 82+66 TO STA. 82+85	21

CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
EW-500	8
ES-502	9
ES-604	9
LT. STA. 82+87 TO STA. 82+99	11

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
EW-500	7
ES-502	8
ES-604	8
LT. STA. 82+99	8

5 INCH CONCRETE DITCH	
LOCATION - STATION	SY
I-501	8
I-606	2

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
RT. STA. 79+16 (UNK. PIPE)	5
LT. STA. 79+16 (UNK. PIPE)	6

FLOWABLE BACKFILL FOR PIPE ABANDONMENT	
LOCATION - STATION	CY
RT. + LT. STA 79+16 (UNK. PIPE)	2

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 77+50 TO STA. 84+00	1501
LT. STA. 80+70 TO STA. 81+05	28

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
LT. STA. 79+69 TO STA. 80+70	101
RT. STA. 79+84 TO STA. 81+16	134
LT. STA. 81+05 TO STA. 83+39	234
RT. STA. 81+80 TO STA. 82+24	44

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)	
LOCATION - STATION	LF
RT. STA. 83+25 TO STA. 84+00	75

TRAFFIC BARRER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)	
LOCATION - STATION	EA
RT. STA. 82+75 TO STA. 83+25	1

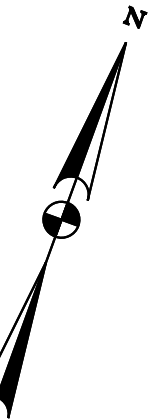
5 INCH CONCRETE SIDEWALK	
LOCATION - STATION	SF
LT. STA. 81+21	38

CONCRETE STEPS	
LOCATION - STATION	CY
LT. STA. 81+21	2

METAL HANDRAIL	
LOCATION - STATION	LF
LT. STA. 81+21	14

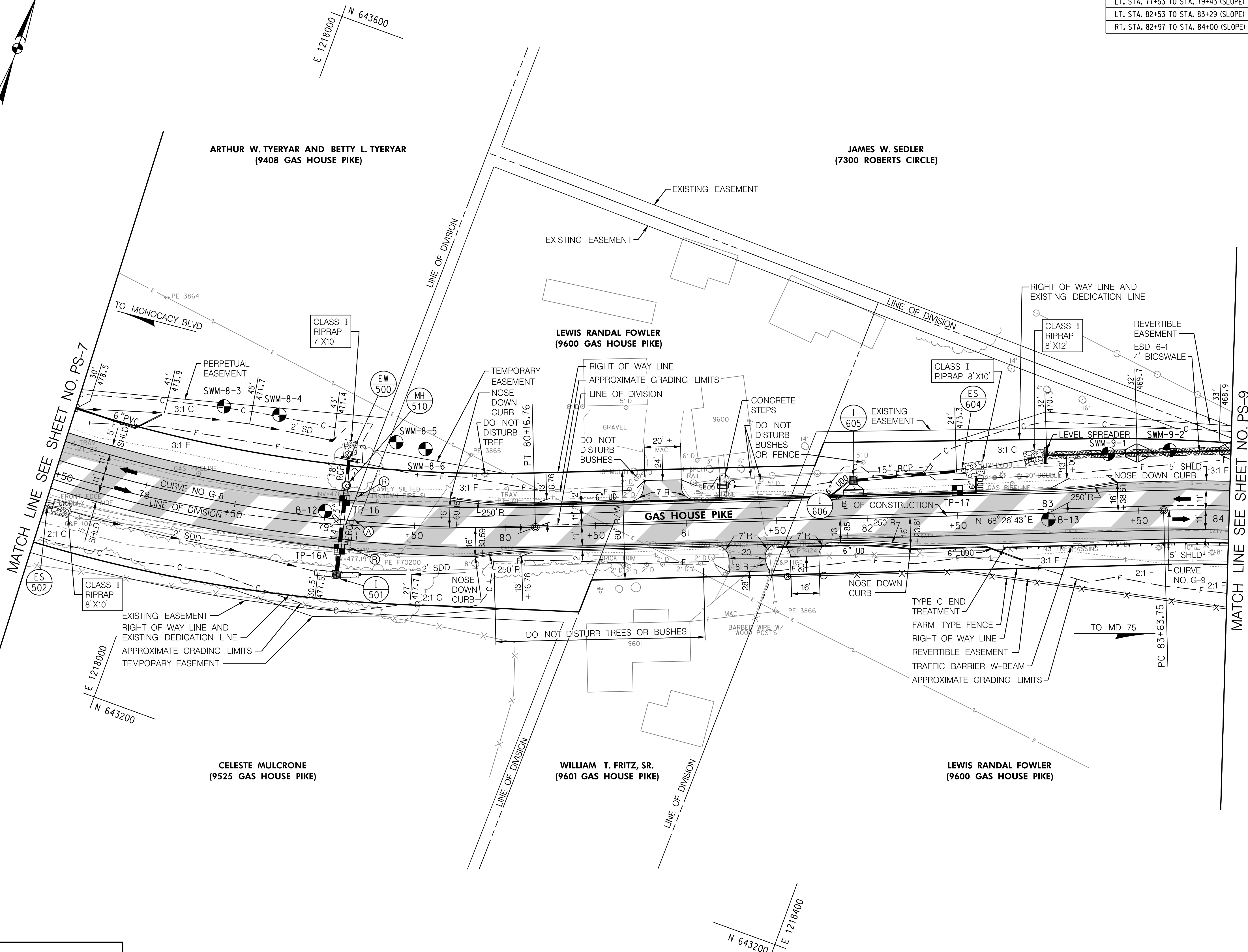
4 FOOT FARM TYPE FENCE (MD 690.03)	
LOCATION - STATION	LF
RT. STA. 81+45 TO STA. 81+55	10
RT. STA. 81+75 TO STA. 84+00	224

PS-8



MATCH LINE SEE SHEET NO. PS-7

MATCH LINE SEE SHEET NO. PS-9



BY: ADB - Thursday, December 22, 2022 AT 01:11 PM
PLOTED: Thursday, December 22, 2022 AT 01:11 PM
FILE: T:\Gas House Pike\Design Files\pdp-P003_gps.dgn

NOTES:

1. APPLY WEED MATTING COVERED WITH 6" COMPACTED CRUSHER RUN AGGREGATE CR-6 BETWEEN THE SHOULDER EDGE AND THE BACK OF THE TRAFFIC BARRIER POST FROM RT. STA. 88+44 TO RT. STA. 90+67. WORK SHALL BE CONSIDERED INCIDENTAL TO THE TRAFFIC BARRIER ITEMS.

LEGEND

	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA

NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
18	6" STEEL GAS	643,550.3198	1,218,684.1691	465.1'	469.6'
18A	UG CATV /UG ELEC	643,526.5605	1,218,686.9462	466.2'	468.7'
18B	UG CATV	643,572.1951	1,218,738.5527	468.8'	469.7'



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CROSS REFERENCE

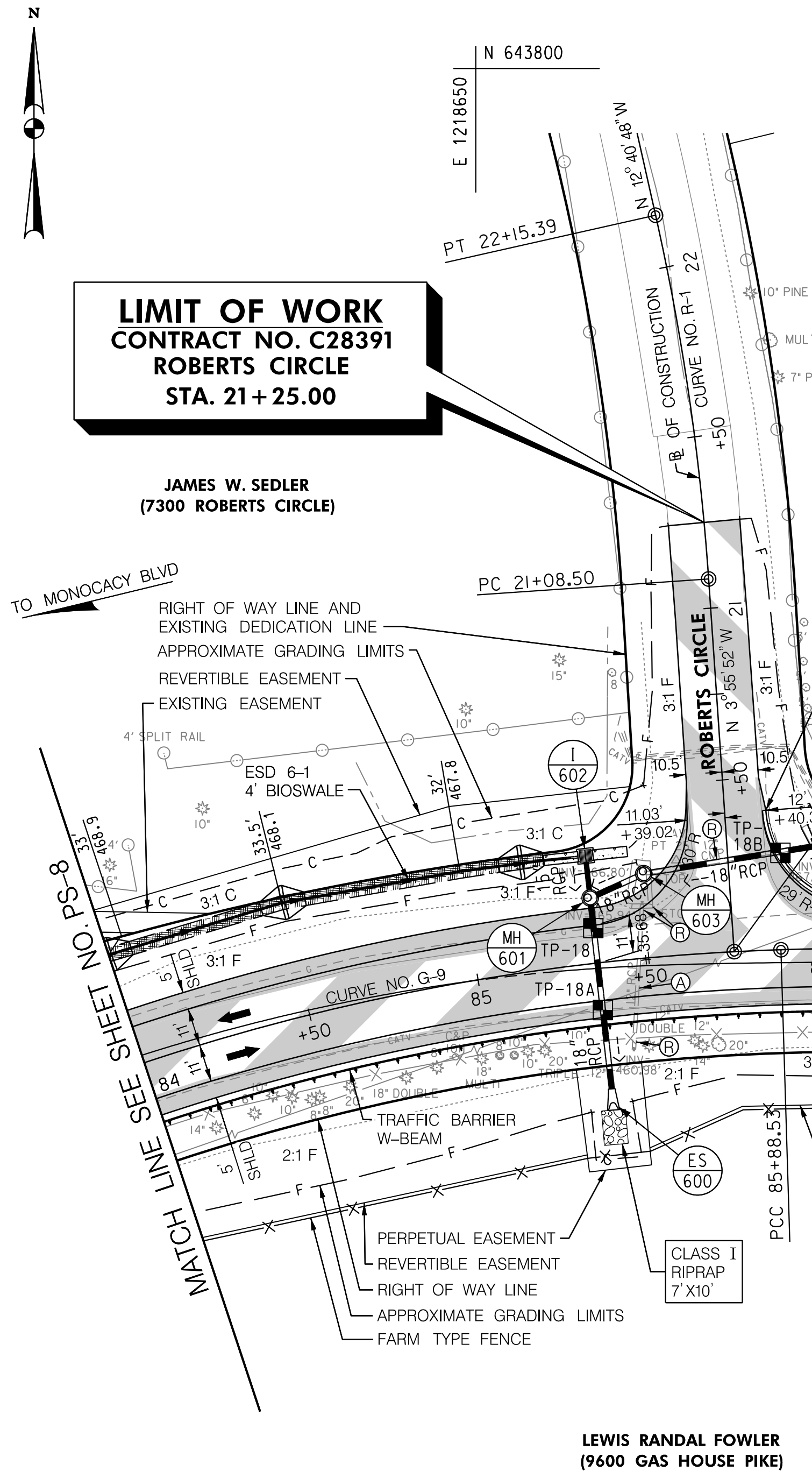
ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGGING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 84+00 TO STA 90+00**

DATE: DECEMBER 2022 SCALE: 1"=30'
FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 24 OF 273

PS-9



CURVE DATA					
CURVE	DELTA	Dc	RADIUS	TANGENT	EXTERNAL
G-9	19° 48' 50"	8° 48' 53"	650.00'	113.52'	224.78'
G-10	17° 26' 37"	4° 46' 29"	1200.00'	184.09'	365.34'
G-11	10° 18' 22"	5° 30' 33"	1040.00'	93.79'	187.07'
R-1	8° 44' 57"	8° 11' 06"	700.00'	53.55'	106.89'
D-1	5° 08' 35"	5° 43' 46"	1000.00'	44.91'	89.76'

METAL HANDRAIL	
LOCATION - STATION	LF
LT. STA. 86+57	14
4 FOOT FARM TYPE FENCE (MD 690.03)	
LOCATION - STATION	LF
RT. STA. 84+00 TO STA. 86+83	270
TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
RT. STA. 84+00 TO STA. 86+16 (SLOPE)	475
LT. STA. 86+59 TO STA. 87+25 (SLOPE)	79
RT. STA. 88+46 TO STA. 90+00 (SLOPE)	372
RT. STA. 30+49 TO STA. 31+26 (SLOPE)	97

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.11-01)	
LOCATION - STATION	LF
RT. STA. 86+31 TO STA. 88+47	213
6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
RT. STA. 88+47 TO STA. 88+52	8
CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
ES-600	8
ES-800	8
BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
ES-600	7
ES-800	7

5 INCH CONCRETE DITCH	
LOCATION - STATION	SY
I-602	8
I-608	8

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
RT. 85+43 (12" RCP)	12
LT. 85+49 (12" RCP)	5
LT. STA. 88+59 TO STA. 88+78 (12" CMP)	21

FLOWABLE BACKFILL FOR PIPE ABANDONMENT	
LOCATION - STATION	CY
RT. + LT. 85+47 (12" RCP)	1
RT. + LT. 30+26 (12" CMP)	2

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 84+00 TO STA. 90+00	1279
STA. 20+06 TO STA. 21+25	295
STA. 31+10 TO STA. 31+50	91

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
RT. STA. 20+34 TO LT. STA. 87+18	149
RT. STA. 86+31 TO STA. 87+76	144
LT. STA. 81+42 TO STA. 88+66	126

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)	
LOCATION - STATION	LF
RT. STA. 84+00 TO STA. 85+75	175
RT. STA. 88+46 TO STA. 90+00	173

TRAFFIC BARRIER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)	
LOCATION - STATION	EA
RT. STA. 85+75 TO STA. 86+25	1
LT. STA. 89+54 TO STA. 90+04	1

TRAFFIC BARRIER W-BEAM RADIUS END TREATMENT (TYPE L) (MD 605.13)	
LOCATION - STATION	EA
RT. STA. 88+46	1

REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W-BEAM	
LOCATION - STATION	LF
RT. STA. 88+69 TO STA. 90+00	130
LT. STA. 89+41 TO STA. 90+00	59

5 INCH CONCRETE SIDEWALK	
LOCATION - STATION	SF
LT. STA. 86+57	36
RT. STA. 87+45	42

CONCRETE STEPS	
LOCATION - STATION	CY
LT. STA. 86+57	2

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
G-11	10°18'22"	5°30'33"	1040.00'	93.79'	187.07'	4.22'
G-12	3°29'33"	1°08'45"	5000.00'	152.43'	304.77'	2.32'

CLASS I RIPRAP DITCH		
LOCATION - STATION		SY
ES-701		8
ES-703		9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH		
LOCATION - STATION		LF
ES-701		8
ES-703		8

5 INCH CONCRETE DITCH		
LOCATION - STATION		SY
I-702		4

REMOVAL OF EXISTING PIPE		
LOCATION - STATION		LF
RT. STA. 90+68 TO STA. 90+99 (18" CMP)		31

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH		
LOCATION - STATION		SY
STA. 90+00 TO STA. 95+50		1238

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)		
LOCATION - STATION		LF
RT. STA. 90+00 TO STA. 90+17		17

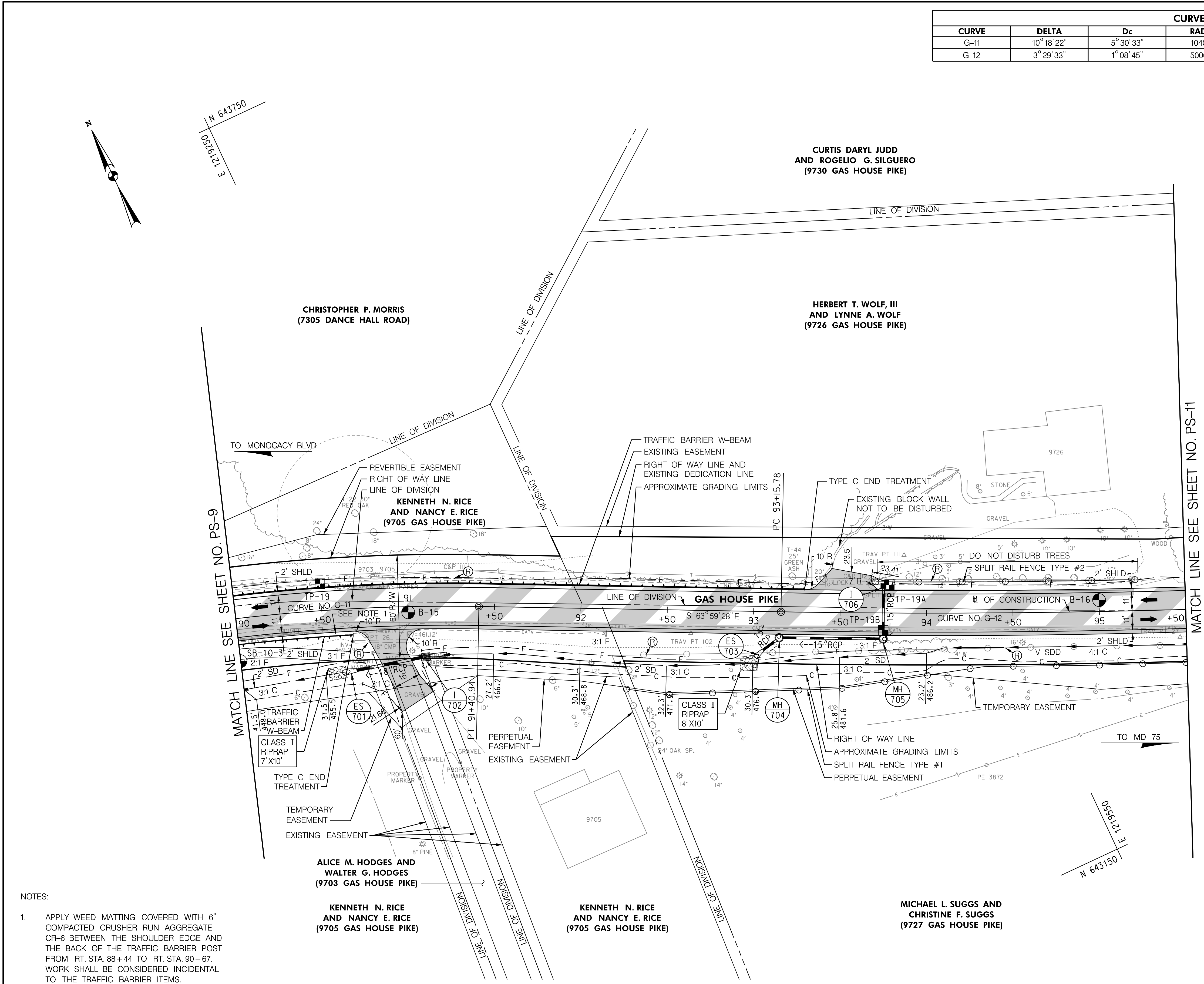
TRAFFIC BARRIER W-BEAM USING 8 FOOT POST (MD 605.23)		
LOCATION - STATION		LF
LT. STA. 90+00 TO STA. 92+84		284

TRAFFIC BARRER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)		
LOCATION - STATION		EA
RT. STA. 90+17 TO STA. 90+67		I
LT. STA. 92+84 TO STA. 93+34		I

REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W-BEAM		
LOCATION - STATION		LF
RT. STA. 90+00 TO STA. 90+49		49
LT. STA. 90+00 TO STA. 93+03		303

SPLIT RAIL FENCE		
LOCATION - STATION		LF
RT. STA. 92+27 TO STA. 95+50 - TYPE #1		326
LT. STA. 93+71 TO STA. 95+22 - TYPE #2		150

TYPE A SOIL STABILIZATION MATTING		
LOCATION - STATION		SY
RT. STA. 90+00 TO STA. 90+68 (SLOPE)		142
RT. STA. 91+74 TO STA. 93+47 (SLOPE)		223



- NOTES:
1. APPLY WEED MATTING COVERED WITH 6" COMPACTED CRUSHER RUN AGGREGATE OR-6 BETWEEN THE SHOULDER EDGE AND THE BACK OF THE TRAFFIC BARRIER POST FROM RT. STA. 88+44 TO RT. STA. 90+67. WORK SHALL BE CONSIDERED INCIDENTAL TO THE TRAFFIC BARRIER ITEMS.

LEGEND	
	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
19	6" STEEL GAS	643,484.1415	1,219,196.7407	458.7'	462.7'
19A	6" STEEL GAS	643,344.3475	1,219,495.0950	482.0'	485.5'
19B	UG. CATV /UG. ELEC	643,321.9449	1,219,480.7544	483.4'	485.7'

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE	
ITEM	SHEET NOs.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

PS-10

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 90+00 TO STA 95+50**

DATE: DECEMBER 2022 SCALE: 1"=30'

FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 25 OF 273

BY: ADB -
PLOT: 2022-12-23 11:44 AM
FILE: T:\Gas House Pike\Design Files\pdp-F01-gas.dgn

LEGEND

CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)

FULL DEPTH CONSTRUCTION

RESURFACING

GRAVEL ENTRANCE

BIO-SWALE / BIO-RETENTION

PAVEMENT REMOVAL

CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
20	6" STEEL GAS	643,203.5416	1,219,810.3813	506.9'	510.5'

WB

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE	
ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGGING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

PS-11

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 95+50 TO STA 101+50

DATE: DECEMBER 2022
FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391)

SCALE: 1"=30'
DWG. 26 OF 273

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
G-12	3° 29' 33"	1° 08' 45"	5000.00'	152.43'	304.77'	2.32'
G-13	7° 25' 17"	2° 17' 31"	2500.00'	162.14'	323.82'	5.25'

CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
EW-900	9
HW-901	12
ES-902	8
ES-904	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
EW-900	8
HW-901	8
ES-902	7
ES-904	8

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
LT. STA. 97+17 (18" CMP)	11
RT. STA. 97+22 (18" CMP)	9
RT. STA. 40+28 (18" CMP)	11
LT. STA. 40+34 (18" CMP)	12

FLOWABLE BACKFILL FOR PIPE ABANDONMENT	
LOCATION - STATION	CY
RT. + LT. STA. 97+20 (18" CMP)	2
RT. + LT. STA. 40+31 (18" CMP)	2

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 95+50 TO STA. 101+50	1395
STA. 40+16 TO STA. 40+55	117

TRAFFIC BARRIER W-BEAM USING 8 FOOT POST (MD 605.23)	
LOCATION - STATION	LF
LT. STA. 96+09 TO STA. 97+50	140

TRAFFIC BARRIER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)	
LOCATION - STATION	EA
LT. STA. 95+59 TO STA. 96+09	1
LT. STA. 97+50 TO STA. 98+00	1

REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W-BEAM	
LOCATION - STATION	LF
LT. STA. 95+58 TO STA. 97+86	228

SPLIT RAIL FENCE	
LOCATION - STATION	LF
RT. STA. 95+50 TO STA. 96+83 - TYPE #1	133
LT. STA. 95+69 TO STA. 98+10 - TYPE #2	240

TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
RT. STA. 97+42 TO STA. 101+50 (SD/SDD & SLOPE)	436
LT. STA. 98+31 TO STA. 99+93 (SD/SDD & SLOPE)	229
LT. STA. 100+55 TO STA. 101+50 (SDD & SLOPE)	137

BY: ADB -
PLOT: 2022-12-23 11:44 AM
FILE: T:\Gas House Pike\Design Files\pdp-F01-gas.dgn

BY: ADB - Thursday, December 22, 2022 AT 01:32 PM
PLOT: T:\Gas House Pike\Design Files\pdp-F012.dwg
FILE: T:\Gas House Pike\Design Files\pdp-F012.dwg

LEGEND

CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)

FULL DEPTH CONSTRUCTION

RESURFACING

GRAVEL ENTRANCE

BIO-SWALE / BIO-RETENTION

PAVEMENT REMOVAL

CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

UTILITY ADJUSTMENTS BY CONTRACTOR			
UTILITY	LOCATION - STATION	EX. ELEV.	PROP. ELEV.
WASH. GAS HOUSE CONN.	STA. 101+63, LT.	DET. IN FIELD	DET. IN FIELD

CURVE DATA					
CURVE	DELTA	Dc	RADIUS	TANGENT	EXTERNAL
G-14	19° 07' 47"	5° 30' 14"	1041.00'	175.42'	347.57'

CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
ES-906	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
ES-906	8

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 101+50 TO STA. 103+75	826
LT. STA. 103+28 TO STA. 103+51 (DRIVEWAY)	19

4 FOOT FARM TYPE FENCE (MD 690.03)	
LOCATION - STATION	LF
LT. STA. 103+54 TO STA. 106+01	246

TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
RT. STA. 101+50 TO STA. 103+77 (SDD)	152
LT. STA. 101+50 TO STA. 103+34 (SDD & SLOPE)	373
LT. STA. 103+46 TO STA. 105+38 (SLOPE)	231

THE
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BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE	
ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

PS-12

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 101+50 TO STA 107+50

DATE: DECEMBER 2022 SCALE: 1"=30'

FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 27 OF 273

BY: ADB - Thursday, December 22, 2022 AT 02:08 PM
PLOTFILE: Gas_House_Pike_Design_Files\pdp-f015.dwg
FILE: T:\Gas_House_Pike_Design_Files\pdp-f015.dwg

LEGEND	
	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
22	6" STEEL GAS	643,091.8182	1,222,044.6148	555.4'	559.9'

WB THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE	
ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

PS-15

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 119+50 TO STA 126+00

DATE: DECEMBER 2022 SCALE: 1"=30'

FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 30 OF 273

CURVE DATA					
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH
G-16	9°55' 46"	0°42' 58"	8000.00'	694.95'	1386.43'

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.11-01)	
LOCATION - STATION	LF
RT. STA. 119+61 TO STA. 121+31	170
RT. STA. 125+49 TO STA. 126+00	51

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
RT. STA. 121+31 TO LT. STA. 121+54	42

CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
ES-1340	9
ES-1341	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
ES-1340	8
ES-1341	8

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 119+50 TO STA. 126+00	1442
RT. STA. 121+31 TO STA. 121+78 (DRIVEWAY)	46
RT. STA. 123+16 TO STA. 124+16 (DRIVEWAY)	60
RT. STA. 124+67 TO STA. 125+49 (DRIVEWAY)	74

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
RT. STA. 119+61 TO STA. 121+31	170
RT. STA. 125+49 TO STA. 126+00	51

TRAFFIC BARRIER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)	
LOCATION - STATION	EA
RT. STA. 119+25 TO STA. 119+75	1

5 INCH CONCRETE SIDEWALK	
LOCATION - STATION	SF
RT. STA. 120+71	30

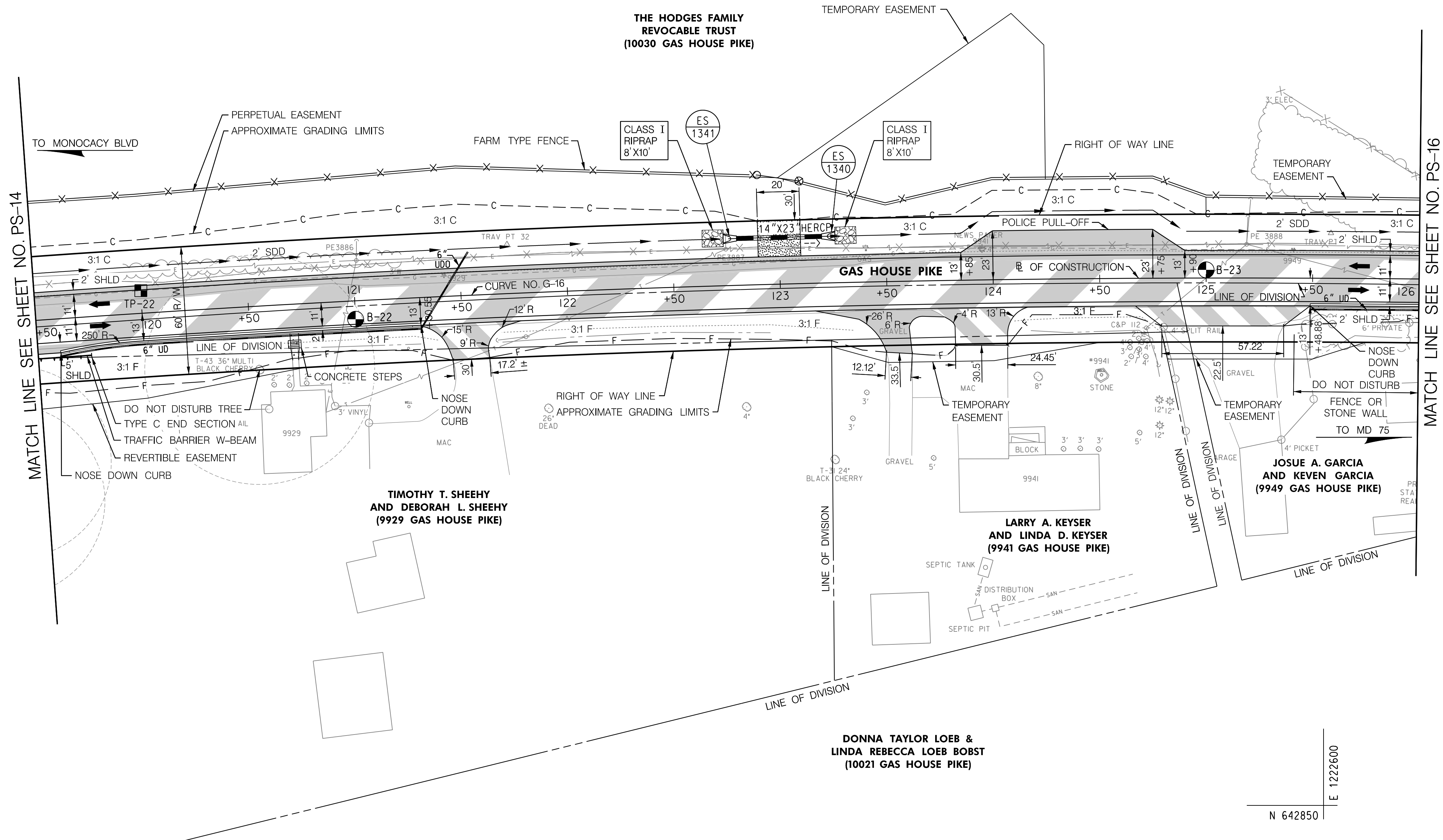
CONCRETE STEPS	
LOCATION - STATION	CY
RT. STA. 120+71	2

METAL HANDRAIL	
LOCATION - STATION	LF
RT. STA. 120+71	10

4 FOOT FARM TYPE FENCE (MD 690.03)	
LOCATION - STATION	LF
LT. STA. 119+50 TO STA. 122+90	344
LT. STA. 123+10 TO STA. 126+00	296

10 FOOT TUBULAR STEEL GATE	
LOCATION - STATION	EA
LT. STA. 123+00	2

TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
LT. STA. 119+50 TO STA. 122+64 (SDD & SLOPE)	631
LT. STA. 123+36 TO STA. 126+00 (SDD)	301



MATCH LINE SEE SHEET NO. PS-16

BY: ADB - Thursday, December 22, 2022 AT 02:26 PM
PLOTED: Thursday, December 22, 2022 AT 02:26 PM
FILE: T:\Gas House Pike\Design Files\pdp-F016.dgn

- NOTES:
- SALVAGE EXISTING MASONRY PILLARS AND RE-INSTALL AT ENDS OF PROPOSED FENCE AT PERPETUAL EASEMENT LINE. REFER TO SPECIFICATIONS FOR "SALVAGE OF EXISTING DECORATIVE ELEMENTS".

LEGEND	
	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
23	6" STEEL GAS	643,086.4905	1,223,095.0330	497.3'	501.3'

WB THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE	
ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

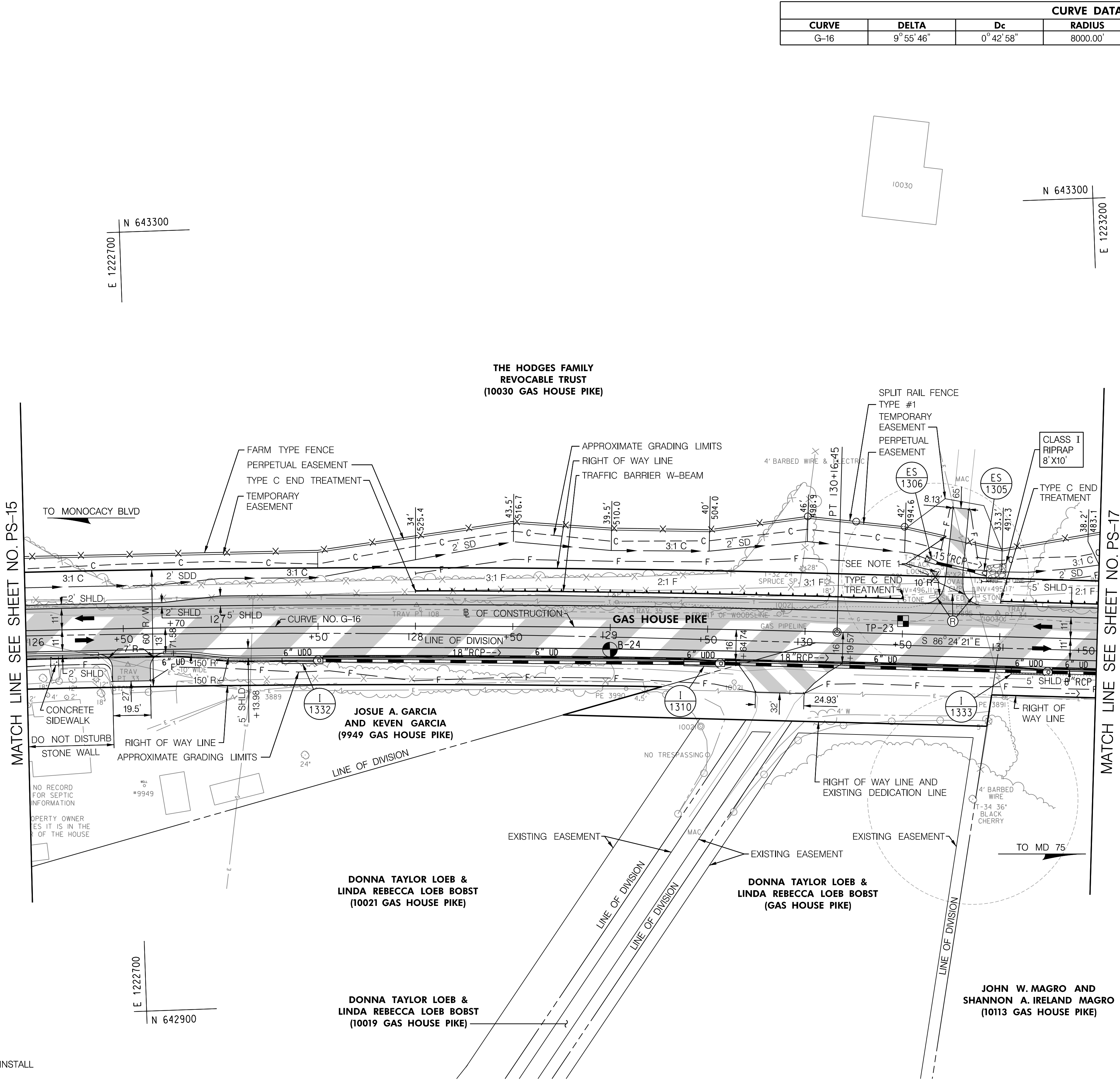
PS-16

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 126+00 TO STA 131+50

DATE: DECEMBER 2022 SCALE: 1"=30'

FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 31 OF 273



CURVE DATA					
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH
G-16	9°55'46"	0°42'58"	8000.00'	694.95'	1386.43'

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.11-01)	
LOCATION - STATION	LF
RT. STA. 126+00 TO STA. 127+31	131
RT. STA. 127+52 TO STA. 129+38	185
RT. STA. 129+59 TO STA. 131+06	147
RT. STA. 131+27 TO STA. 131+50	23

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
I-1310	17
I-1332	17
I-1333	17

CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
ES-1305	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
ES-1305	8

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
LT. STA. 130+66 TO STA. 130+87 (15"x24" CMPA)	21

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 126+00 TO STA. 131+50	1186
RT. STA. 129+65 TO STA. 130+19 (DRIVEWAY)	68
LT. STA. 130+69 TO STA. 130+81 (DRIVEWAY)	47

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
RT. STA. 126+00 TO STA. 126+37	37
RT. STA. 126+70 TO STA. 129+65	295
RT. STA. 130+19 TO STA. 131+50	131

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)	
LOCATION - STATION	LF
LT. STA. 128+50 TO STA. 130+00	150

TRAFFIC BARRIER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)	
LOCATION - STATION	EA
LT. STA. 128+00 TO STA. 128+50	1
LT. STA. 130+00 TO STA. 130+50	1
LT. STA. 131+00 TO STA. 131+50	1

5 INCH CONCRETE SIDEWALK	
LOCATION - STATION	SF
RT. STA. 126+14	18

4 FOOT FARM TYPE FENCE (MD 690.03)	
LOCATION - STATION	LF
LT. STA. 126+00 TO STA. 130+00	404
LT. STA. 130+83 TO STA. 131+50	68

SPLIT RAIL FENCE	
LOCATION - STATION	LF
RT. STA. 130+00 TO STA. 130+71 - TYPE #1	71

TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
LT. STA. 126+00 TO STA. 130+71 (SDD & SLOPE)	1051
LT. STA. 130+80 TO STA. 131+50 (SDD/SDD & SLOPE)	137

BY: ADB -
PLOTED: Thursday, December 22, 2022 AT 02:28 PM
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LEGEND

- CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
- FULL DEPTH CONSTRUCTION
- RESURFACING
- GRAVEL ENTRANCE
- BIO-SWALE / BIO-RETENTION
- PAVEMENT REMOVAL
- CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA

NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
23A	6" STEEL GAS	643,059.2783	1,223,542.4707	456.1'	460.4'



THE
WILSON T.
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OWINGS MILLS, MD

CROSS REFERENCE

ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

GAS HOUSE PIKE FROM FREDERICK CITY LIMITS TO BOYERS MILL ROAD ROADWAY PLAN STA 131+50 TO STA 137+50

DATE: DECEMBER 2022 SCALE: 1"=30'
FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 32 OF 273

PS-17

CURVE DATA					
CURVE	DELTA	Dc	RADIUS	TANGENT	EXTERNAL
G-17	1° 30' 57"	0° 34' 23"	10000.00'	132.30'	264.58'

TERMINAL POST FOR 6 FOOT GALVANIZED
CHAIN LINK FENCE (MD 690.01)

LOCATION - STATION	EA
ESD I3-1	I2

12 FOOT GATE FOR 6 FOOT GALVANIZED
CHAIN LINK FENCE (MD 692.01)

LOCATION - STATION	EA
ESD I3-1	I

4 FOOT FARM TYPE FENCE (MD 690.03)

LOCATION - STATION	LF
LT. STA. 131+50 TO STA. 132+12	62
LT. STA. 133+37 TO STA. 133+86	74

TYPE A SOIL STABILIZATION MATTING

LOCATION - STATION	SY
LT. STA. 131+50 TO STA. 137+50 (SD & SLOPE)	1374
RT. STA. 132+43 TO STA. 133+43 (SDD & SLOPE)	150
RT. STA. 134+17 TO STA. 137+32 (SLOPE & CHANNEL)	786
RT. STA. 135+33 TO STA. 136+37 (SWM EMBANKMENT)	206
RT. STA. 136+14 TO STA. 136+49 (SD & SWM SLOPE)	262
RT. STA. 136+61 TO STA. 136+97 (SWM SLOPE)	198

6 INCH PERFORATED CIRCULAR PIPE
LONGITUDINAL UNDERDRAIN (MD 387.II-01)

LOCATION - STATION	LF
RT. STA. 131+50 TO STA. 132+25	75

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)

LOCATION - STATION	LF
I-1309	17

CLASS I RIPRAP DITCH

LOCATION - STATION	SY
LT. STA. 132+56 TO STA. 132+67	5
ES-1302	12
ES-1307	11
EW-1313	33
RT. STA. 136+07 TO STA. 136+21	21

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH

LOCATION - STATION	LF
ES-1307	8
EW-1313	11
RT. STA. 136+07	8

CLASS II RIPRAP DITCH

LOCATION - STATION	SY
EW-1300	93
HW-1301	57

BOTTOM CUTOFF WALLS FOR CLASS II RIPRAP DITCH

LOCATION - STATION	LF
EW-1300	32
HW-1301	25

5 INCH CONCRETE DITCH

LOCATION - STATION	SY
I-1304	X
I-1312	X
I-1335	X

REMOVAL OF EXISTING PIPE

LOCATION - STATION	LF
LT. STA. 131+63 TO STA 131+90 (18" CMP)	27

ACCESS ROAD WITH CELLULAR CONFINEMENT
LOAD SUPPORT SYSTEM

LOCATION - STATION	SY
ESD I3-1	223

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH

LOCATION - STATION	SY
STA. 131+50 TO STA. 134+70	686
STA. 135+30 TO STA. 137+50	472

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER
12 INCH GUTTER PAN, 8 INCH DEPTH (MD 620.02)

LOCATION - STATION	LF
RT. STA. 131+50 TO STA. 132+50	100

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23)

LOCATION - STATION	LF
LT. STA. 131+50 TO STA. 137+50	600
RT. STA. 134+35 TO STA. 137+25	290

TRAFFIC BARRER W-BEAM ONE-SIDED
END TREATMENT (TYPE C) (MD 605.03)

LOCATION - STATION	EA
RT. STA. 133+85 TO STA. 134+35	I

REMOVAL AND DISPOSAL OF EXISTING
TRAFFIC BARRIER W-BEAM

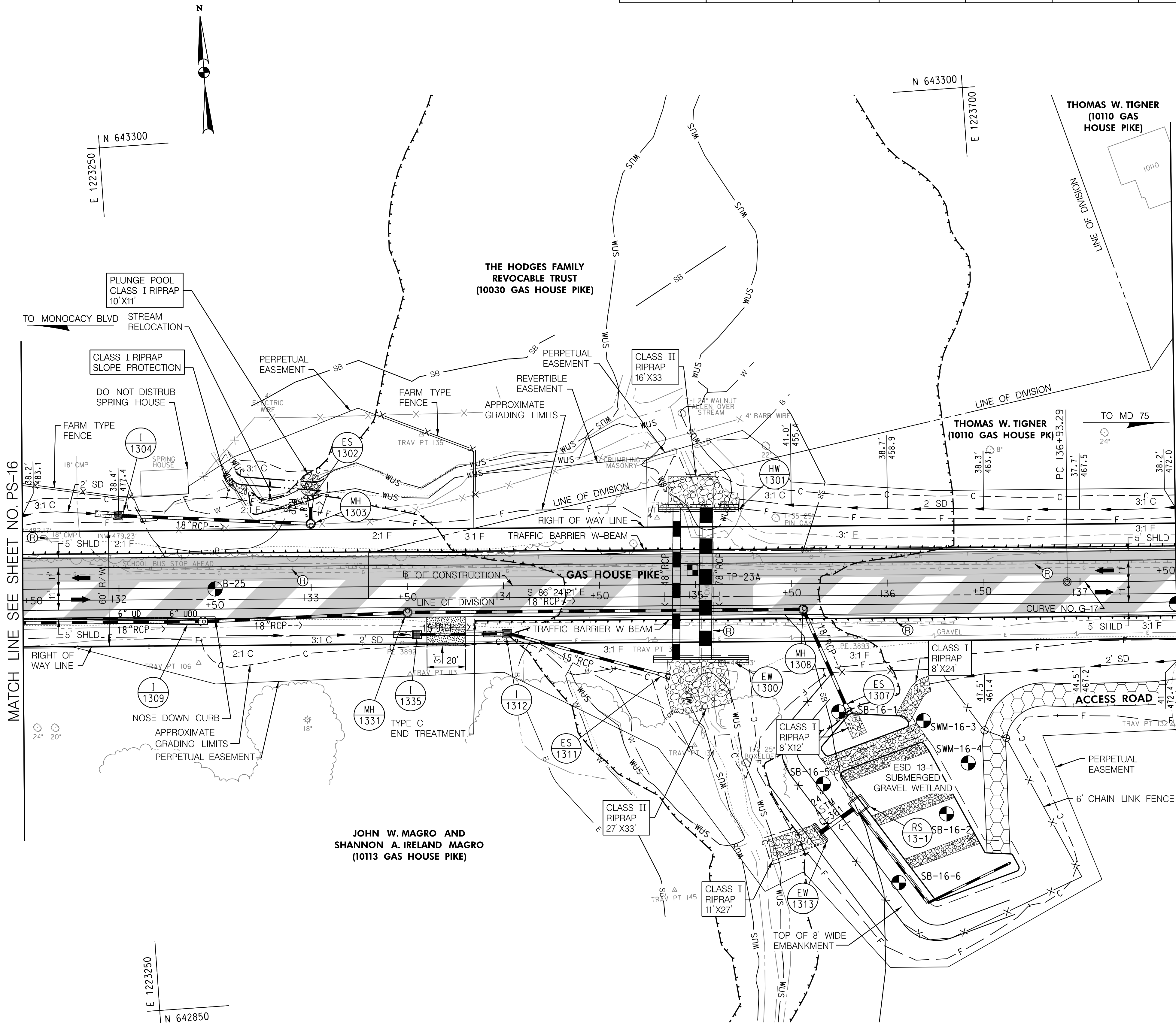
LOCATION - STATION	LF
LT. STA. 131+84 TO STA. 137+50	566
RT. STA. 133+84 TO STA. 136+35	251

6 FOOT GALVANIZED CHAIN LINK FENCE (MD 690.01)

LOCATION - STATION	LF
ESD I3-1	440

MATCH LINE SEE SHEET NO. PS-16

MATCH LINE SEE SHEET NO. PS-18



JOHN W. MAGRO AND
SHANNON A. IRELAND MAGRO
(10113 GAS HOUSE PIKE)

BY: ADB -
PLOTTED: Thursday, December 22, 2022 AT 02:29 PM
FILE: T:\Gas House Pike\Design Files\pdp-F018.dwg

- LEGEND**
- CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
 - FULL DEPTH CONSTRUCTION
 - RESURFACING
 - GRAVEL ENTRANCE
 - BIO-SWALE / BIO-RETENTION
 - PAVEMENT REMOVAL
 - CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
24	6" STEEL GAS	643,024.1395	1,224,092.4187	503.4'	507.2'



THE
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CROSS REFERENCE	
ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULES.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGGING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 137+50 TO STA 143+50**

DATE: DECEMBER 2022 SCALE: 1"=30'
FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 33 OF 273

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
G-17	1°30'57"	0°34'23"	10000.00'	132.30'	264.58'	0.88'
G-18	1°30'57"	0°34'23"	10000.00'	132.30'	264.58'	0.88'

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.11-01)	
LOCATION - STATION	LF
RT, STA. 141+00 TO STA. 143+50	250

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
RT, STA. 140+89 TO STA. 141+00	12

CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
ES-1315	9
ES-1317	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
ES-1315	8
ES-1317	8

5 INCH CONCRETE DITCH	
LOCATION - STATION	SY
I-1316	4
I-1318	4

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
RT, STA. 138+11 TO STA. 138+31 (15" CMP)	21
LT, STA. 138+14 TO STA. 138+35 (18"X30" CMPA)	21

ACCESS ROAD WITH CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM	
LOCATION - STATION	SY
ESD 13-1	89

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 137+50 TO STA. 143+50	1263
RT, STA. 138+10 TO STA. 138+39 (DRIVEWAY)	49
LT, STA. 138+26 TO STA. 138+36 (DRIVEWAY)	11

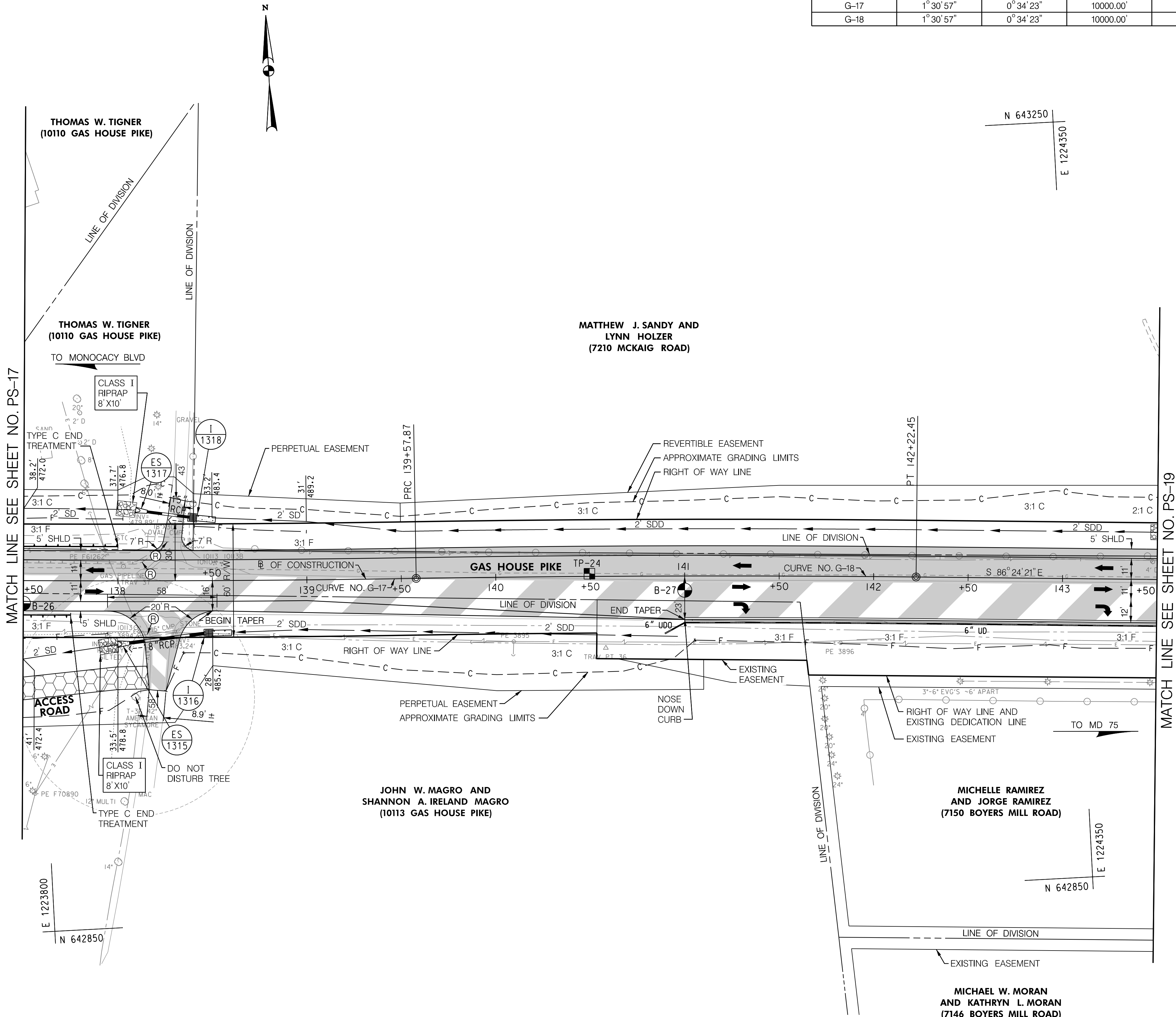
STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
RT, STA. 141+00 TO STA. 143+50	250

TRAFFIC BARRIER W-BEAM ONE-SIDED END TREATMENT (TYPE C) (MD 605.03)	
LOCATION - STATION	EA
RT, STA. 137+25 TO STA. 137+75	1
LT, STA. 137+50 TO STA. 138+00	1

REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W-BEAM	
LOCATION - STATION	LF
LT, STA. 137+50 TO STA. 138+18	71

TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
RT, STA. 137+50 TO STA. 137+91 (SD)	27
LT, STA. 137+50 TO STA. 138+28 (SD & SLOPE)	190
LT, STA. 138+51 TO STA. 143+50 (SD/SDD & SLOPE)	802
RT, STA. 138+60 TO STA. 140+96 (SDD & SLOPE)	554

PS-18



MATCH LINE SEE SHEET NO. PS-17

MATCH LINE SEE SHEET NO. PS-19

UTILITY ADJUSTMENTS BY CONTRACTOR			
UTILITY	LOCATION - STATION	EX. ELEV.	PROP. ELEV.
WASH. GAS VENT	STA. 145+32.1, 0.9' RT.	537.34	537.82
WASH. GAS VALVE	STA. 146+22.3, 8.2' LT.	537.87	538.35

CURVE DATA					
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH
G-19	15° 24' 27"	19° 05' 55"	300.00'	40.58'	80.67'
G-20	2° 10' 37"	1° 04' 52"	5300.00'	100.70'	201.37'

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN (MD 387.11-01)	
LOCATION - STATION	LF
LT. STA. 144+17 TO STA. 145+35	120

6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS (MD 387.01)	
LOCATION - STATION	LF
I-1320	12

CLASS I RIPRAP DITCH	
LOCATION - STATION	SY
ES-1319	9

BOTTOM CUTOFF WALLS FOR CLASS I RIPRAP DITCH	
LOCATION - STATION	LF
ES-1319	8

REMOVAL OF EXISTING PIPE	
LOCATION - STATION	LF
RT. + LT. STA. 53+97 (21"X12" CMP)	32

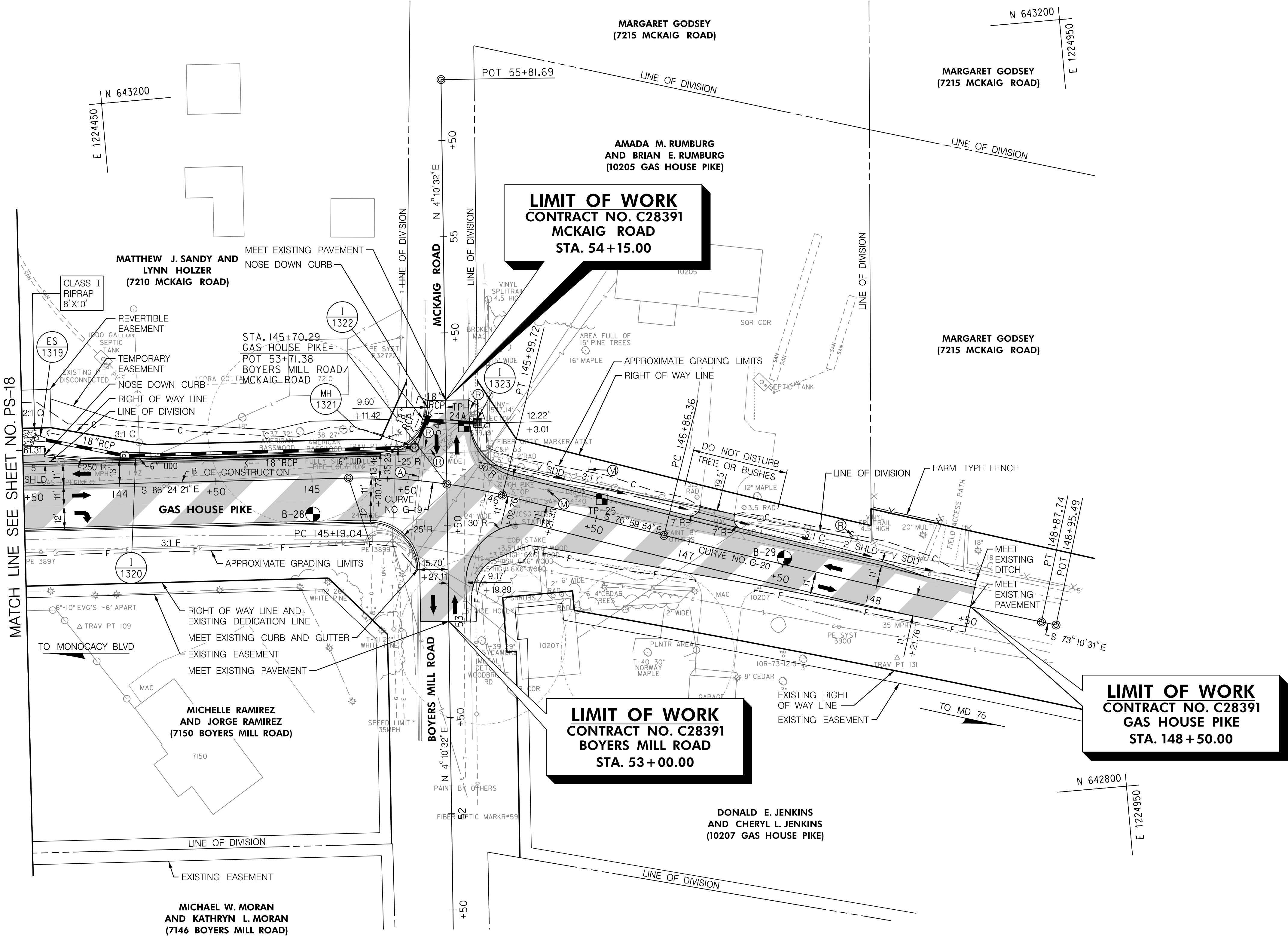
FLOWABLE BACKFILL FOR PIPE ABANDONMENT	
LOCATION - STATION	CY
RT. + LT. STA. 145+56 (UNK. PIPE)	2

FINE MILLING ASPHALT PAVEMENT 0 INCH TO 2 INCH	
LOCATION - STATION	SY
STA. 143+50 TO STA. 148+50	1103
STA. 53+00 TO STA. 53+51	330
STA. 53+82 TO STA. 54+15	76

STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 INCH CUTTER PAN, 8 INCH DEPTH (MD 620.02)	
LOCATION - STATION	LF
RT. STA. 143+50 TO LT. STA. 53+27	219
LT. STA. 143+61 TO LT. STA. 54+11	212

4 FOOT FARM TYPE FENCE (MD 690.03)	
LOCATION - STATION	LF
LT. STA. 147+90 TO STA. 148+24	34

TYPE A SOIL STABILIZATION MATTING	
LOCATION - STATION	SY
LT. STA. 143+50 TO STA. 143+70 (SLOPE)	26



- NOTES:
- DO NOT DISTURB TREES.

LEGEND	
	CONCRETE (SIDEWALK, ENTRANCE APRON, CONCRETE DITCH, ETC.)
	FULL DEPTH CONSTRUCTION
	RESURFACING
	GRAVEL ENTRANCE
	BIO-SWALE / BIO-RETENTION
	PAVEMENT REMOVAL
	CELLULAR CONFINEMENT LOAD SUPPORT SYSTEM

TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
24A	UG TELE	643,016.3570	1,224,623.0521	534.3'	539.0'
25	6" STEEL GAS	642,972.3639	1,224,691.1760	532.4'	537.6'

WB THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS | OWINGS MILLS, MD

CROSS REFERENCE	
ITEM	SHEET NOS.
TYPICAL SECTIONS.....	4 TO 7
SUPERELEVATION CHARTS.....	9 TO 10
PIPE & DRAINAGE SCHEDULE.....	117 TO 121
GEOMETRIC LAYOUT SHEETS.....	12 TO 15
ROADWAY PLAN SHEETS.....	16 TO 34
ROADWAY PROFILE SHEETS.....	35 TO 48
MAINTENANCE OF TRAFFIC.....	49 TO 68
EROSION & SEDIMENT CONTROL PLANS.....	122 TO 168
SIGNING & MARKING PLANS.....	183 TO 199
LANDSCAPE PLAN SHEETS.....	169 TO 175
RESPECTIVE RIGHT-OF-WAY PLATS.....	SEE TITLE SHEET

PS-19

FREDERICK COUNTY, MARYLAND
DIVISION OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING
FREDERICK COUNTY, MARYLAND

**GAS HOUSE PIKE
FROM FREDERICK CITY LIMITS
TO BOYERS MILL ROAD
ROADWAY PLAN
STA 143+50 TO STA 148+50**

DATE: DECEMBER 2022 SCALE: 1"=30'

FREDERICK COUNTY PROJECT NO.: C6303.6303.01 (C28391) DWG. 34 OF 273