

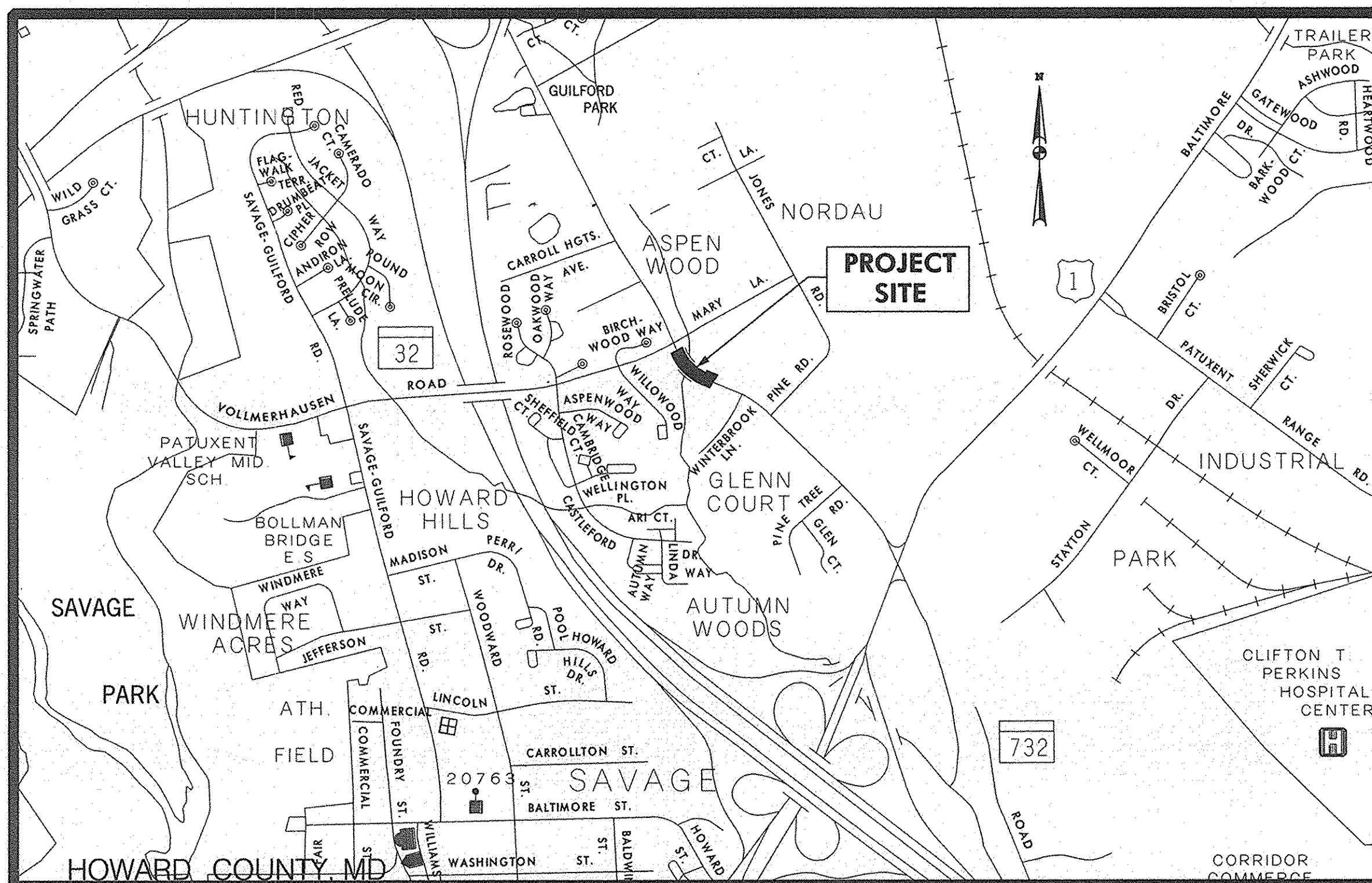
# Howard County, Maryland - Department of Public Works

## GUILFORD ROAD PEDESTRIAN BRIDGE

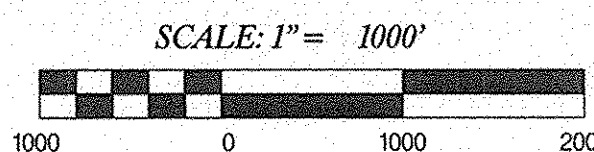
### INDEX OF SHEETS

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4. PEDESTRIAN BRIDGE GENERAL PLAN AND ELEVATION
5. PEDESTRIAN BRIDGE ABUTMENT GENERAL PLAN & ELEVATION AND TYPICAL SECTION.
6. PEDESTRIAN BRIDGE WING WALL ELEVATIONS
7. PEDESTRIAN BRIDGE DETAILS

### CAPITAL PROJECT NO. K-5040



PROJECT LENGTH: 0.07 MILES



NOTE:  
"EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED"

### GENERAL NOTES

1. ALL STATIONING AND DIMENSIONING ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.
2. APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE HOWARD COUNTY ENGINEER BY THE CONTRACTOR AND AT THE CONTRACTORS EXPENSE. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS, IF APPLICABLE:

MISS UTILITY 1-800-257-7777  
CONSTRUCTION INSPECTION DIVISION, HOWARD COUNTY 410-313-1880  
STATE HIGHWAY ADMINISTRATION DISTRICT 7- 301-624-8100  
BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC 410-855-6958  
BALTIMORE GAS & ELECTRIC COMPANY - GAS ENGINEERING AND CONSTRUCTION 410-291-5834  
DISTRIBUTION CUSTOMER SERVICE 410-685-0123  
ENGINEERING DAMAGE CONTROL 410-234-5621  
BELL ATLANTIC TELEPHONE 1-800-870-0000  
AMERICAN TELEPHONE & TELEGRAPH CABLE LOCATION DIVISION 410-393-3553  
COLONIAL PIPELINE COMPANY 410-781-4641  
BUREAU OF UTILITIES, HOWARD COUNTY 410-313-4900  
COMCAST CABLE 888-793-1800

THE CONTRACTOR SHALL CONTACT THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION OF ENGINEERING FOR VERIFICATION AND/OR INFORMATION REGARDING:  
A. EXISTING/PROPOSED RIGHT-OF-WAY  
B. UTILITY RELOCATION  
C. MAINTENANCE OF TRAFFIC DURING CONSTRUCTION  
D. EROSION/SEDIMENT CONTROL CERTIFICATION AND PERMIT  
E. HORIZONTAL/VERTICAL CONTROL  
F. GRADING PERMIT

3. PLACE REGULATION "ROAD WORK" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS AT LIMIT OF WORK ALONG COUNTY ROADWAYS. COMPLY WITH HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS.
4. ALL GRADING SHALL BE LIMITED TO EXISTING R.O.W. AND EASEMENTS INCLUDING SIDE SLOPES AND STABILIZATION. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED IN ACCORDANCE WITH THE SEDIMENT CONTROL NOTES AND DETAILS.
5. FOR DETAILS NOT SHOWN ON THESE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, THE CONTRACTOR SHALL ABIDE BY THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS, THE PROJECT INVITATION FOR BID BOOKLET, THE SPECIAL PROVISIONS AND THE MARYLAND STATE HIGHWAY ADMINISTRATION'S "BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES" AND "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS." IN THE EVENT OF ANY DISCREPANCY BETWEEN THESE SOURCES, THE SPECIAL PROVISIONS SHALL GOVERN.
6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MD SHA STANDARDS AND SPECIFICATIONS.
7. STAGING AND STOCKPILE AREA WILL BE DETERMINED BY CONTRACTOR, AND AS APPROVED BY THE COUNTY ENGINEER.
8. COORDINATES SHOWN HEREON ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 83'.
9. HORIZONTAL SITE CONTROL IS NAD83 (91). VERTICAL SITE CONTROL IS NGVD29.
10. SITE SURVEY WAS PERFORMED BY URS ON FEBRUARY 2005.

### CONVENTIONAL SIGNS

PROPOSED MEDIAN BARRIER		PROPOSED CULVERT	
ELECTRICAL HAND BOX - SIGNALS		EXISTING CULVERT	
BURIED UTILITY LINES & NO. OF CABLES		EXISTING DROP INLET	
STATE, COUNTY OR CITY LINES		UTILITY POLE	
PROPOSED TRAFFIC BARRIER		MARSH	
EXISTING TRAFFIC BARRIER		HEDGE	
FENCE LINE		GROUND ELEVATION	
RIGHT OF WAY LINE		GRADE ELEVATION	
EXISTING ROADWAY			
RAILROAD			
BASE OR SURVEY LINE			
FIRE HYDRANT			

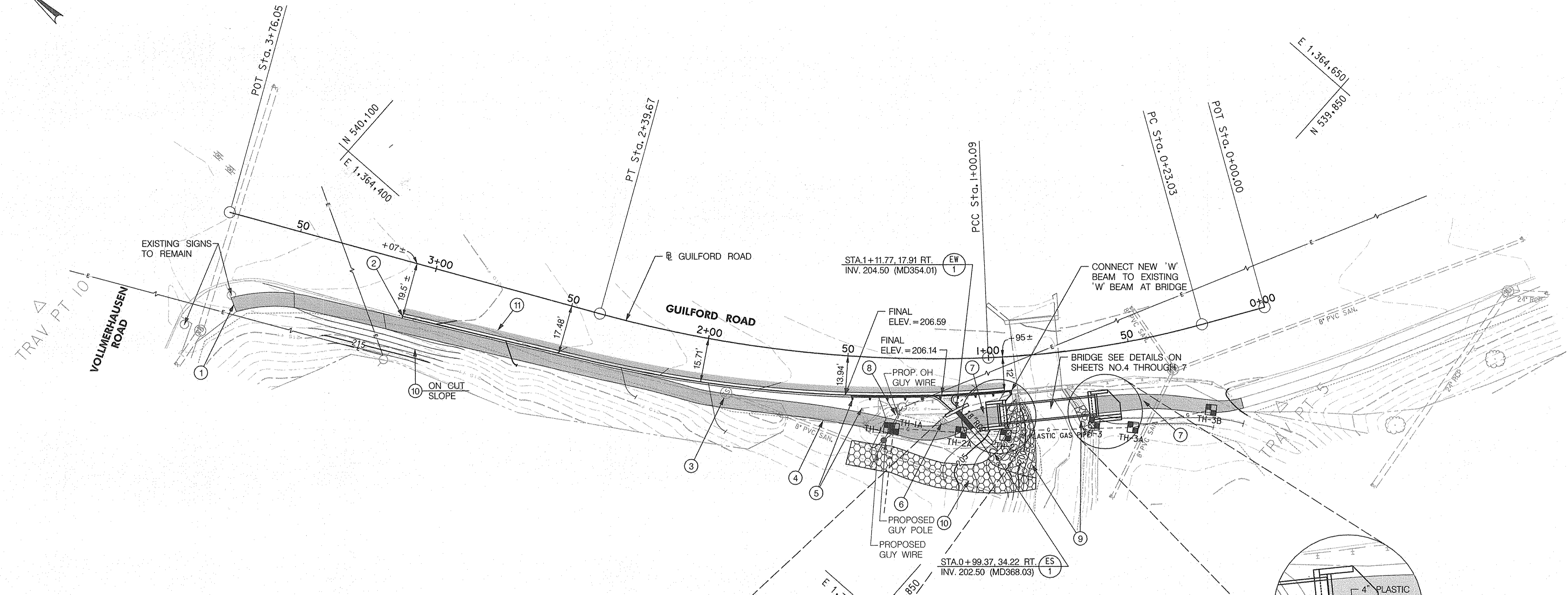
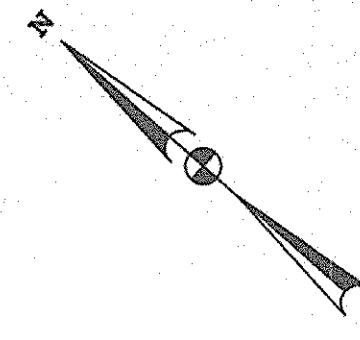
SHEETS 1, 2 & 3 OF 7  
PROFESSIONAL CERTIFICATION  
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16156, EXPIRATION DATE: 8/28/2008."

SHEETS 4 THRU 7 OF 7  
PROFESSIONAL CERTIFICATION  
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 18560, EXPIRATION DATE: 01-14-2010."



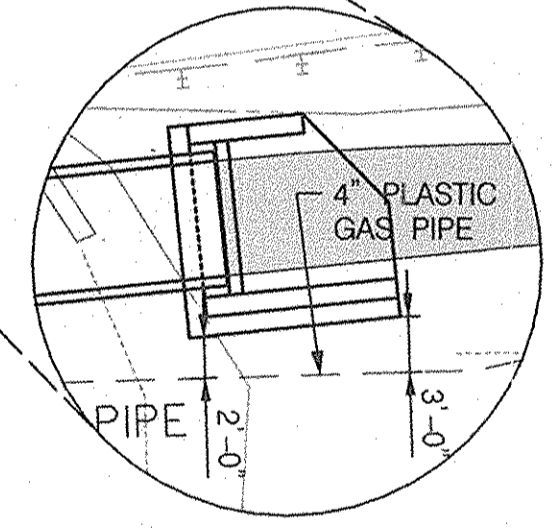
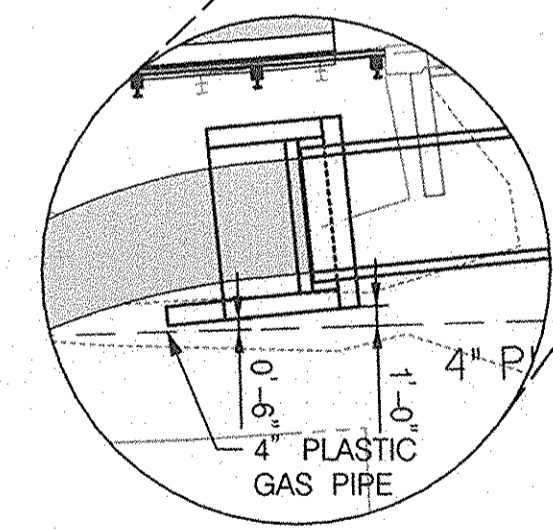
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  DEPARTMENT OF PUBLIC WORKS DATE: 12/27/07 Steve Shaner 12/26/07 CHIEF, TRANSPORTATION & SPECIAL PROJECTS DATE: 1-17-08 Chief, Bureau of Highways Date: 12/19/07		<b>URS</b> HUNT VALLEY, MARYLAND  SABRA WANG & ASSOCIATES, INC. 204 JON A STREET BALTIMORE, MD 21204 410-528-7000 WWW.SABRA-WANG.COM	DES: DRN: CHK: DTM DATE: 06/08/07 BY NO. REVISION DATE	<b>TITLE SHEET</b>  NO.: _____ DATE: _____	<b>GUILFORD ROAD PEDESTRIAN BRIDGE</b>  HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. K-5040	SCALE AS SHOWN SHEET 1 OF 7
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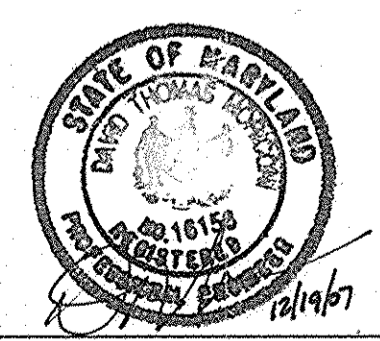
**CONSTRUCTION NOTES**

- ① MEET EXISTING SIDEWALK
- ② MEET EXISTING CURB AND GUTTER
- ③ ADJUST SANITARY MANHOLE FRAME AND COVER TO FINISHED GRADE
- ④ REMOVE EXISTING STORM DRAIN PIPE
- ⑤ REMOVE AND REPLACE TRAFFIC BARRIER. ADD TYPE C TRAFFIC BARRIER END TREATMENT
- ⑥ RESET GAS VALVE ROAD BOX ADJACENT TO SIDEWALK
- ⑦ TRANSITION HOT MIX ASPHALT SIDEWALK FROM 5' TO 6' FOR A DISTANCE OF 20' AT THE APPROACHES TO THE BRIDGE.
- ⑧ EXISTING GUY WIRE TO BE REMOVED AND RESET BY BGE
- ⑨ PLACE CLASS 2 RIPRAP ( $D_{50} = 16"$ , THICKNESS = 32") WITH CLASS 'C' GEOTEXTILE
- ⑩ PLACE SOIL STABILIZATION MATTING
- ⑪ PROVIDE 5" WHITE PAINT LINE AS DIRECTED BY THE COUNTY BETWEEN VOLLMERHAUSEN ROAD AND BRIDGE



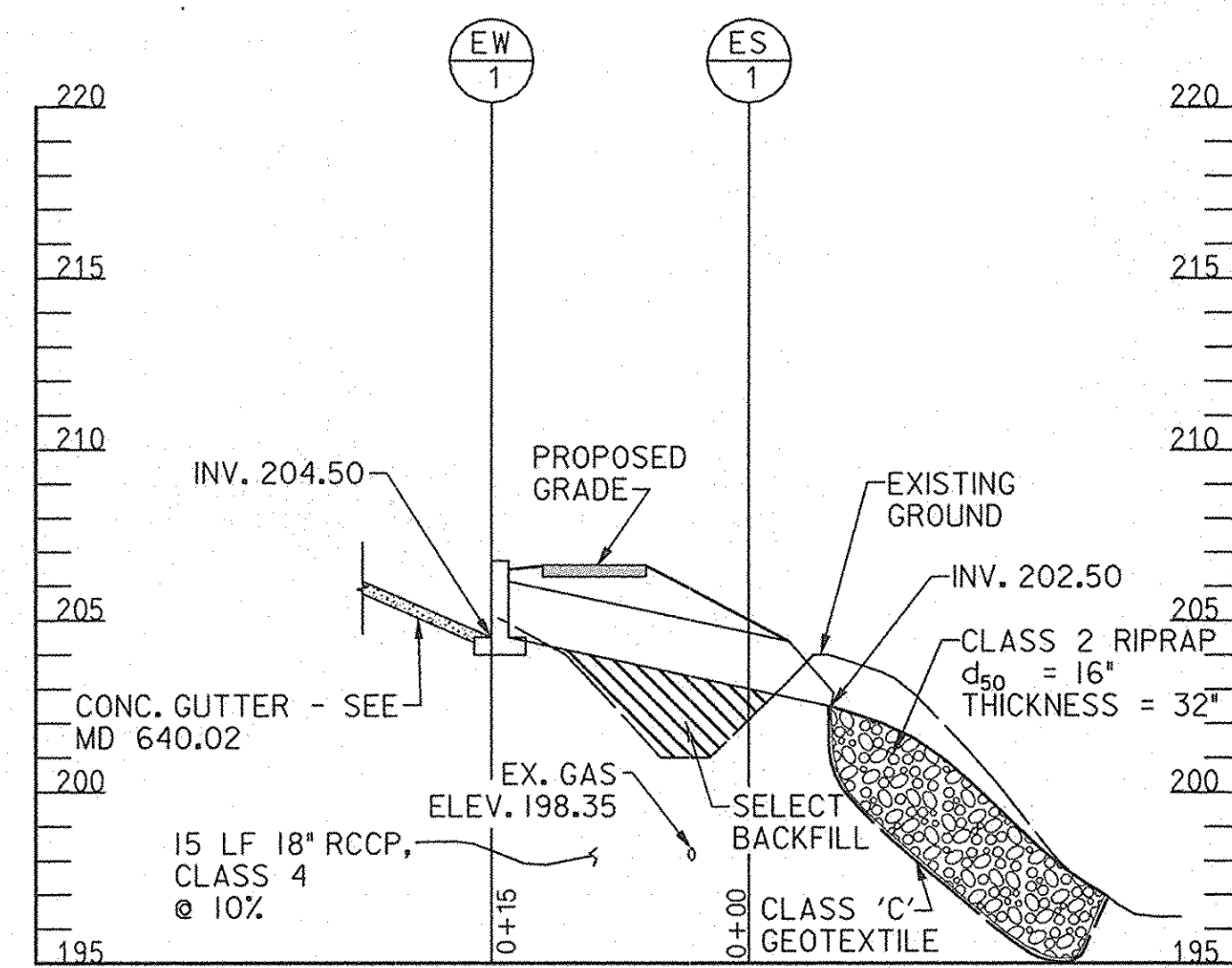
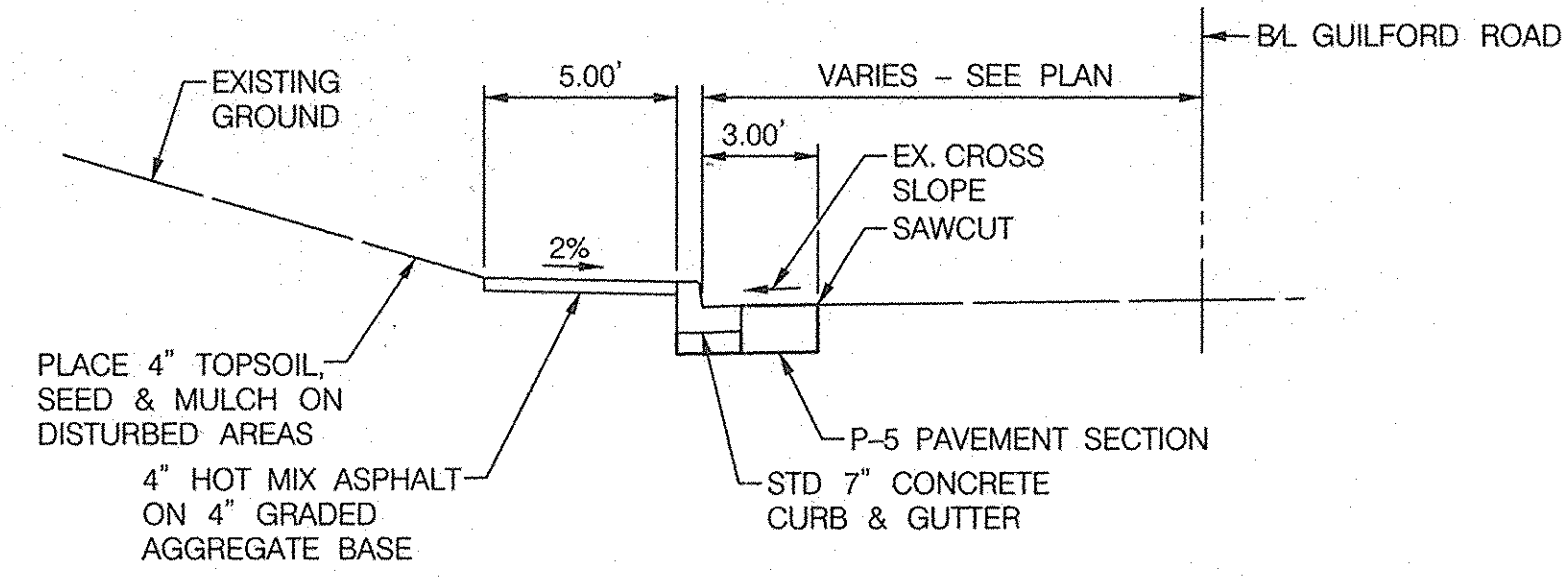
TRAVERSE POINTS			
POINT	ELEVATION	NORTHING	EASTING
5	206.08	1,364,550.9600	539,790.9870
6	222.06	1,365,011.1220	539,569.5100
10	214.68	1,364,286.2870	540,146.1050

TEST PIT DATA					
NUMBER	TYPE	COVER	REMARKS	NORTHERN	EASTERN
TH-1	4" GAS PIPE	5.02'	GAS	1,364,453.0244	539,890.4490
TH-1A	(3) 1" ELEC.	3.62'	ELEC.	1,364,453.9615	539,889.1694
TH-2	N/A	DRY	GAS	1,364,478.4436	539,857.6918
TH-2A	4" GAS PIPE	3.26'	GAS	1,364,468.7193	539,870.2936
TH-3	N/A	DRY	GAS	1,364,502.6574	539,836.9117
TH-3A	4" GAS PIPE	5.14'	GAS	1,364,510.4551	539,825.5545
TH-3B	4" GAS PIPE	3.50'	GAS	1,364,533.4300	539,808.8112



<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p>Steve Shuman 12/26/07 CHIEF, TRANSPORTATION SPECIAL PROJECTS</p> <p>12/27/07 CHIEF, BUREAU OF ENGINEERING</p> <p>1-17-08 Wills Z. ... Chief, Bureau of Highways</p>	 SCALE 1" = 20'	 HUNT VALLEY, MARYLAND	 DARRA WANG & ASSOCIATES, INC. 1004 JOE AVENUE BALTIMORE, MD 21202 WWW.DARRA-WANG.COM	DES: DRN: CHK: DTM DATE: 06/08/07	<p><b>ROADWAY PLAN</b></p> <p>NO.: _____ DATE: _____</p>	<p><b>GUILFORD ROAD PEDESTRIAN BRIDGE</b></p> <p>HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. K-5040</p>	SCALE AS SHOWN  SHEET 2 OF 7
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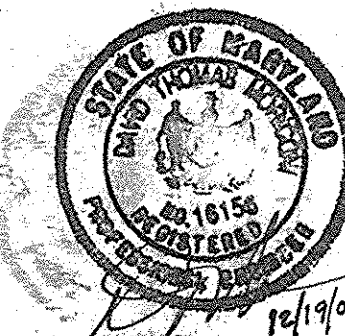


PIPE PROFILE  
SCALE: HORZI. 1" = 10'  
VERT. 1" = 5'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

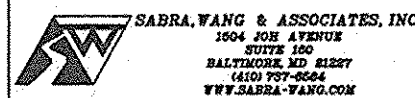
DEPARTMENT OF PUBLIC WORKS  
Steve Shuman 12/26/07  
CHIEF, TRANSPORTATION & SPECIAL PROJECTS

*Paul J. ...* 12/27/07  
CHIEF, BUREAU OF ENGINEERING  
*Will J. ...* 1-17-08  
CHIEF, BUREAU OF HIGHWAYS



**URS**

HUNT VALLEY, MARYLAND



DES:					
DRN:					
CHK: DTM					
DATE:					
06/08/07	BY	NO.	REVISION	DATE	

**ROADWAY DETAILS**

**GUILFORD ROAD  
PEDESTRIAN BRIDGE**

HOWARD COUNTY, MARYLAND  
CAPITAL PROJECT NO. K-5040

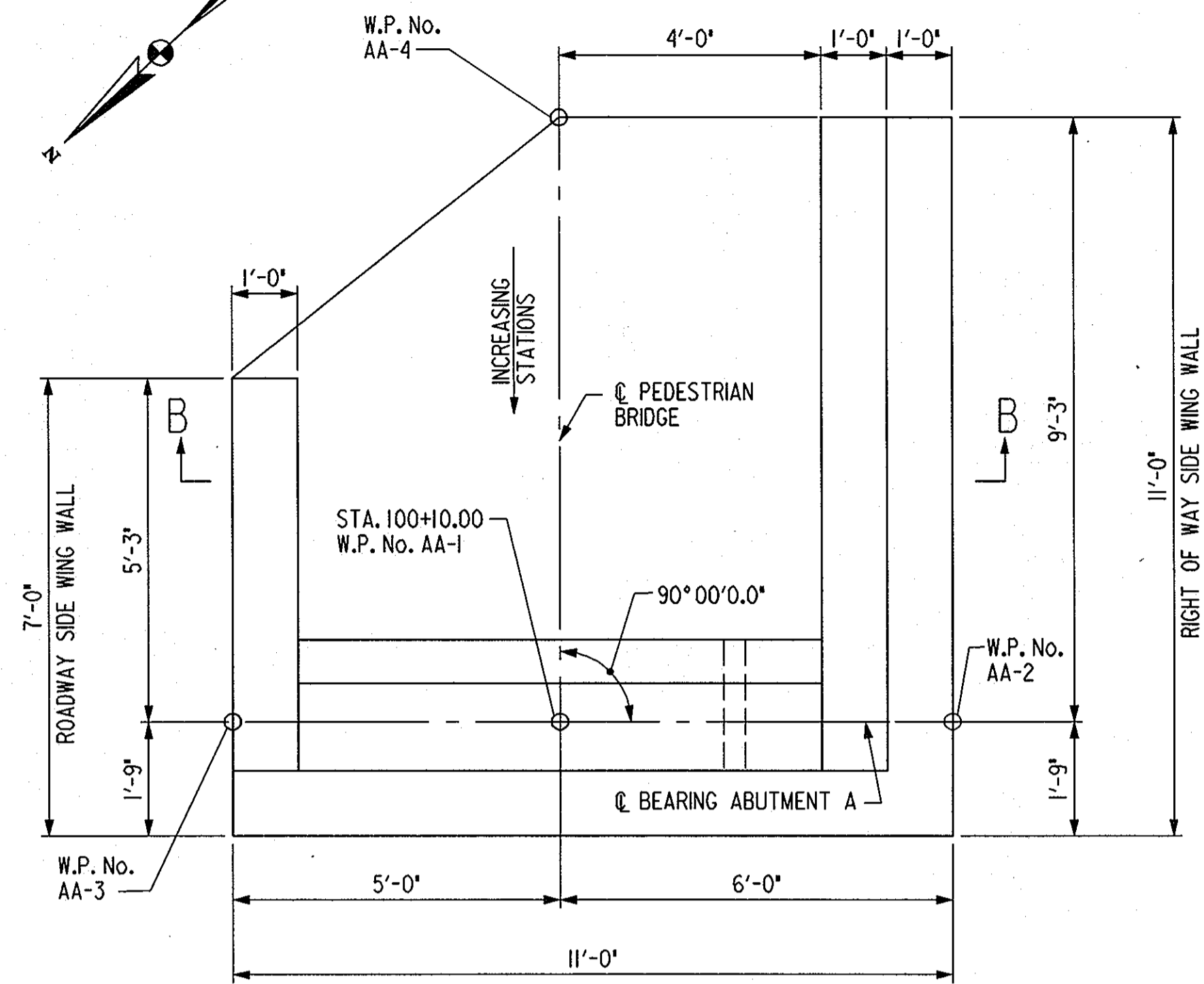
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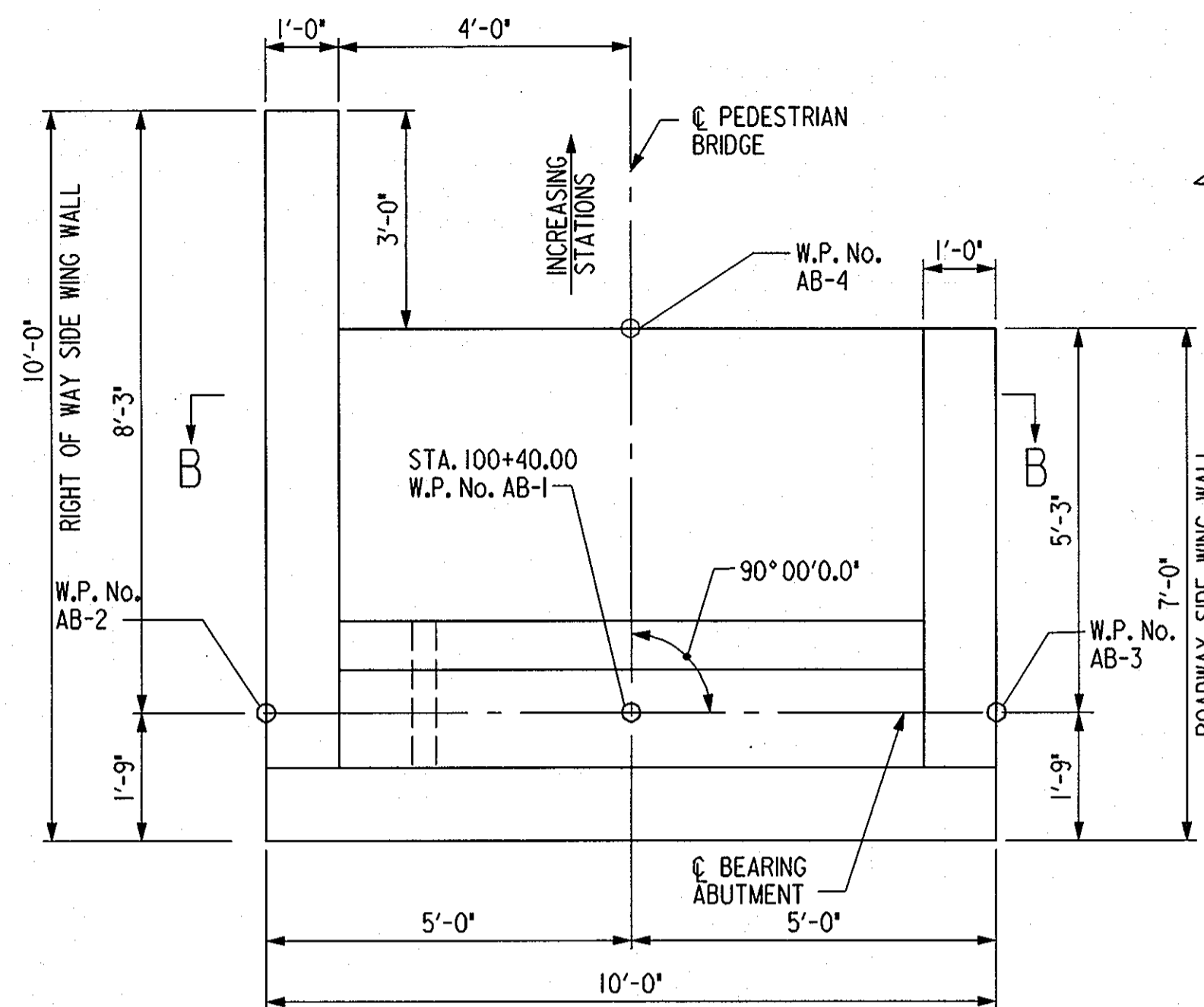
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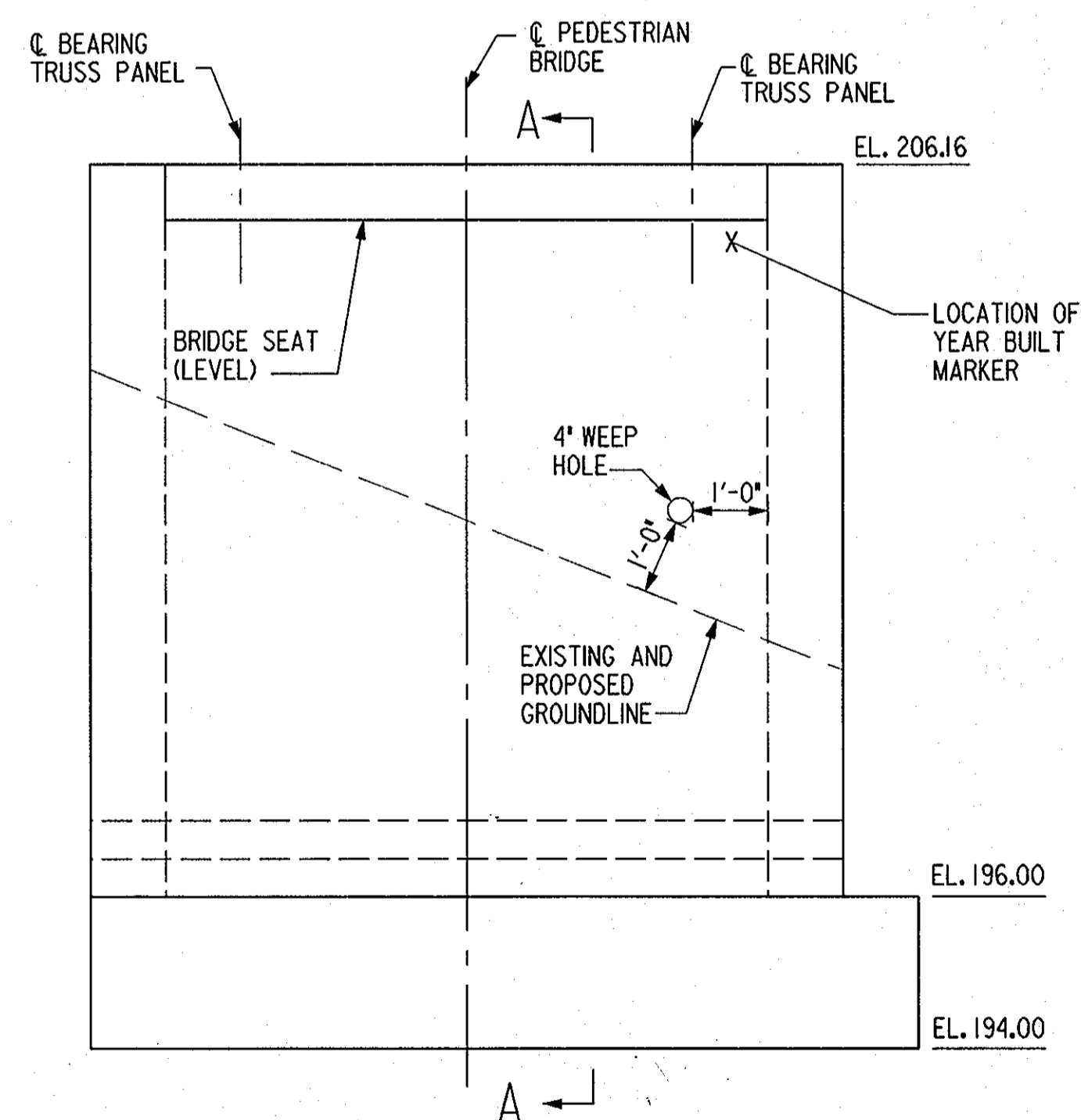


ABUTMENT A PLAN  
SCALE: 1/2" = 1'-0"

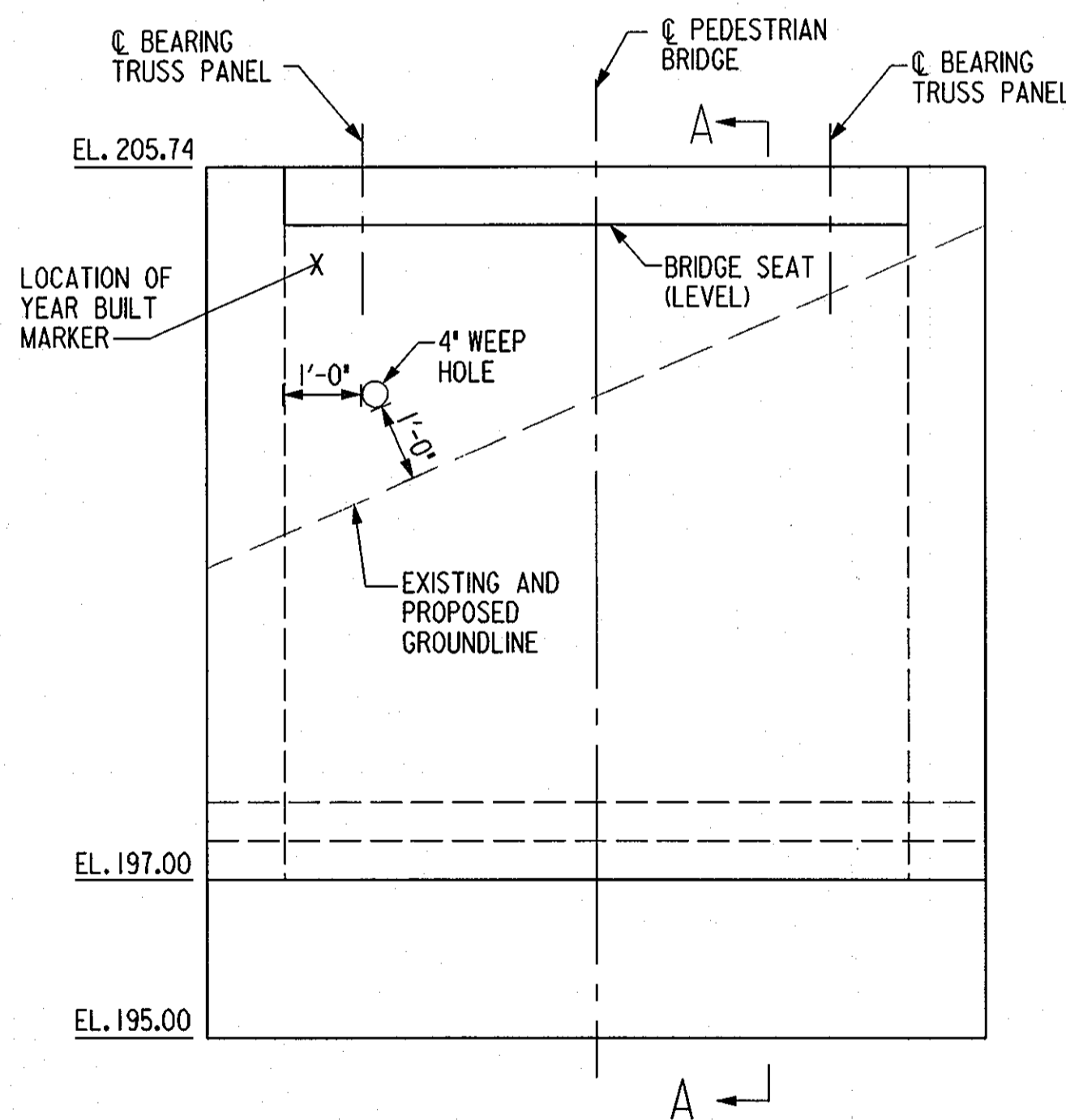


ABUTMENT B PLAN  
SCALE: 1/2" = 1'-0"

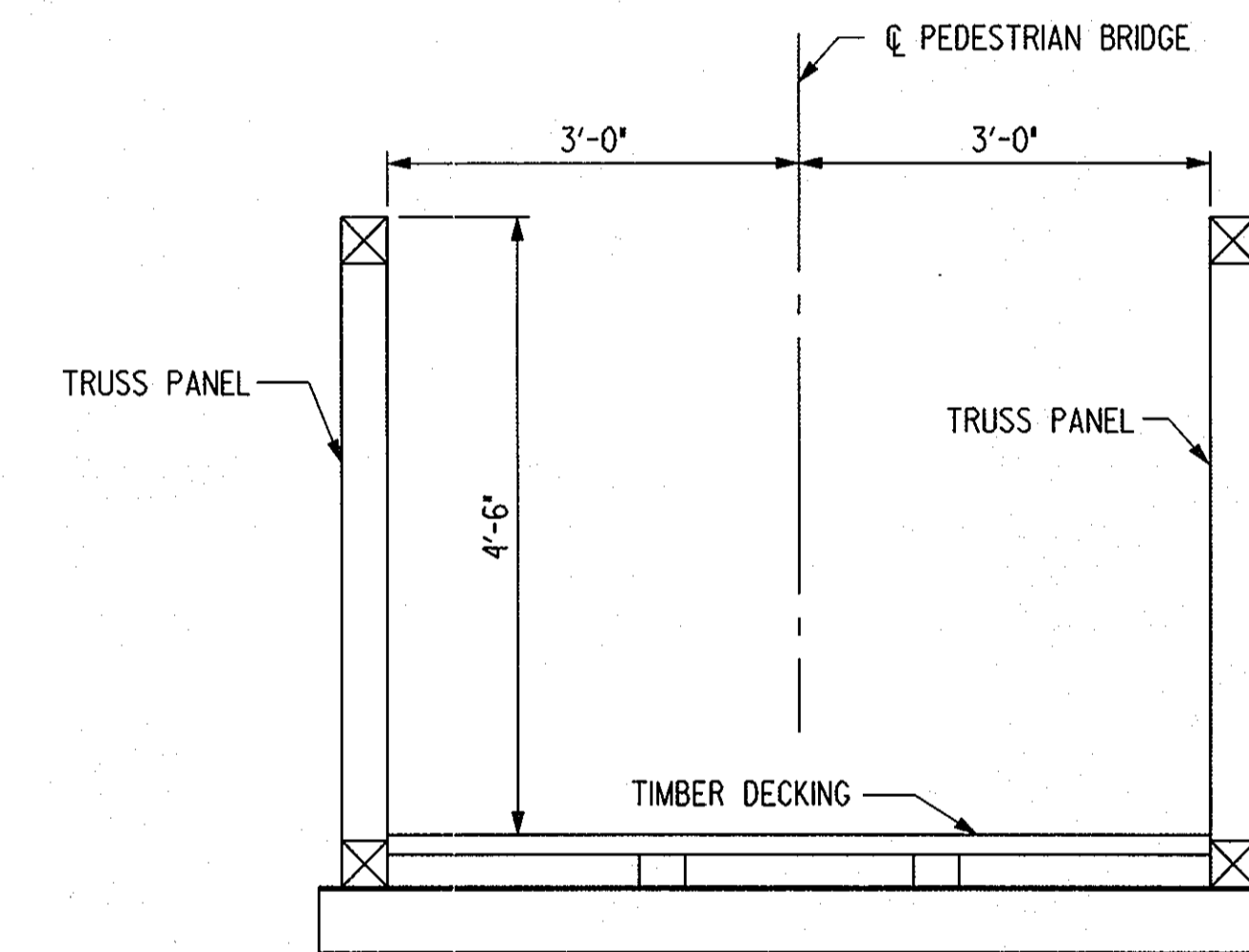
WORKING POINTS DATA				
W.P. NO.	PEDESTRIAN BRIDGE STATION	OFFSET	NORTHING	EASTING
AA-1	100+07.00	-0-	539,841.07	1,364,507.04
AA-2	100+07.00	6.00' L.T.	539,836.68	1,364,503.15
AA-3	100+07.00	5.00 R.T.	539,844.73	1,364,510.64
AA-4	199+98.75	-0-	539,834.77	1,364,514.01
AB-1	100+40.00	-0-	539,863.55	1,364,483.07
AB-2	100+40.00	5.00' L.T.	539,859.89	1,364,479.67
AB-3	100+40.00	5.00' R.T.	539,867.21	1,364,486.48
AB-4	100+51.25	-0-	539,867.13	1,364,479.23



ABUTMENT A ELEVATION  
SCALE: 1/2" = 1'-0"



ABUTMENT B ELEVATION  
SCALE: 1/2" = 1'-0"



TYPICAL SUPERSTRUCTURE SECTION  
SCALE: 3/4" = 1'-0"

NOTES:

- FOR SECTION A-A DETAIL SEE DWG. No. S-4
- FOR SECTION B-B DETAIL SEE DWG. No. S-4
- FOR ABUTMENT CORNER DETAILS SEE DWG. No. S-4
- FOR WING WALL ELEVATION DETAILS SEE DWG. No. S-3
- FOR REINFORCING DETAILS SEE DWG. No. S-4
- FOR YEAR BUILT MARKER DETAILS SEE MD SHA STD. NO. M (10.07)-99-334 IN SPECIAL PROVISIONS.

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DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS DATE: 12/27/07  
 Steve Shanahan 12/26/07  
 CHIEF, BUREAU OF ENGINEERING  
 CHIEF, TRANSPORTATION & SPECIAL PROJECTS  
 DATE: 1-17-08  
 CHIEF, BUREAU OF HIGHWAYS



SABRA WANG & ASSOCIATES, INC.  
1504 JOH. AVENUE  
SUITE 160  
BALTIMORE, MD 21227  
(410) 737-8564  
WWW.SABRA-WANG.COM

DES: FC					
DRN: YM					
CHK: KJS					
DATE: 7/07	BY:	NO.:	REVISION:	DATE:	

**PEDESTRIAN BRIDGE  
ABUTMENT GENERAL  
PLAN & ELEVATION  
AND TYPICAL SECTION**

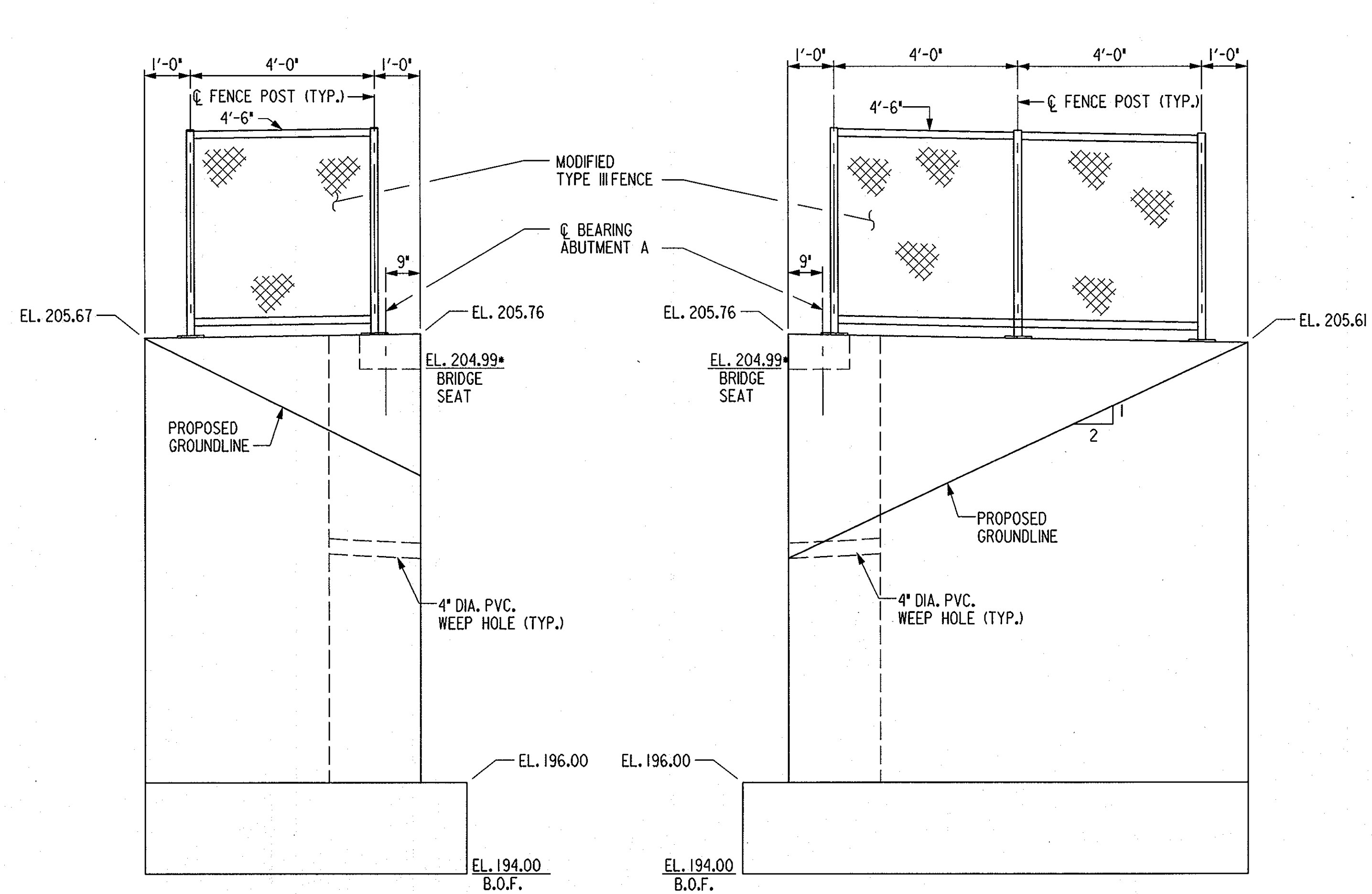
NO.: \_\_\_\_\_ DATE: 12/07

**GUILDFORD ROAD  
PEDESTRIAN SIDEWALK AND BRIDGE**

HOWARD COUNTY, MARYLAND  
CAPITAL PROJECT NO. K-5040

SCALE:  
AS  
SHOWN  
SHEET  
5 OF 7

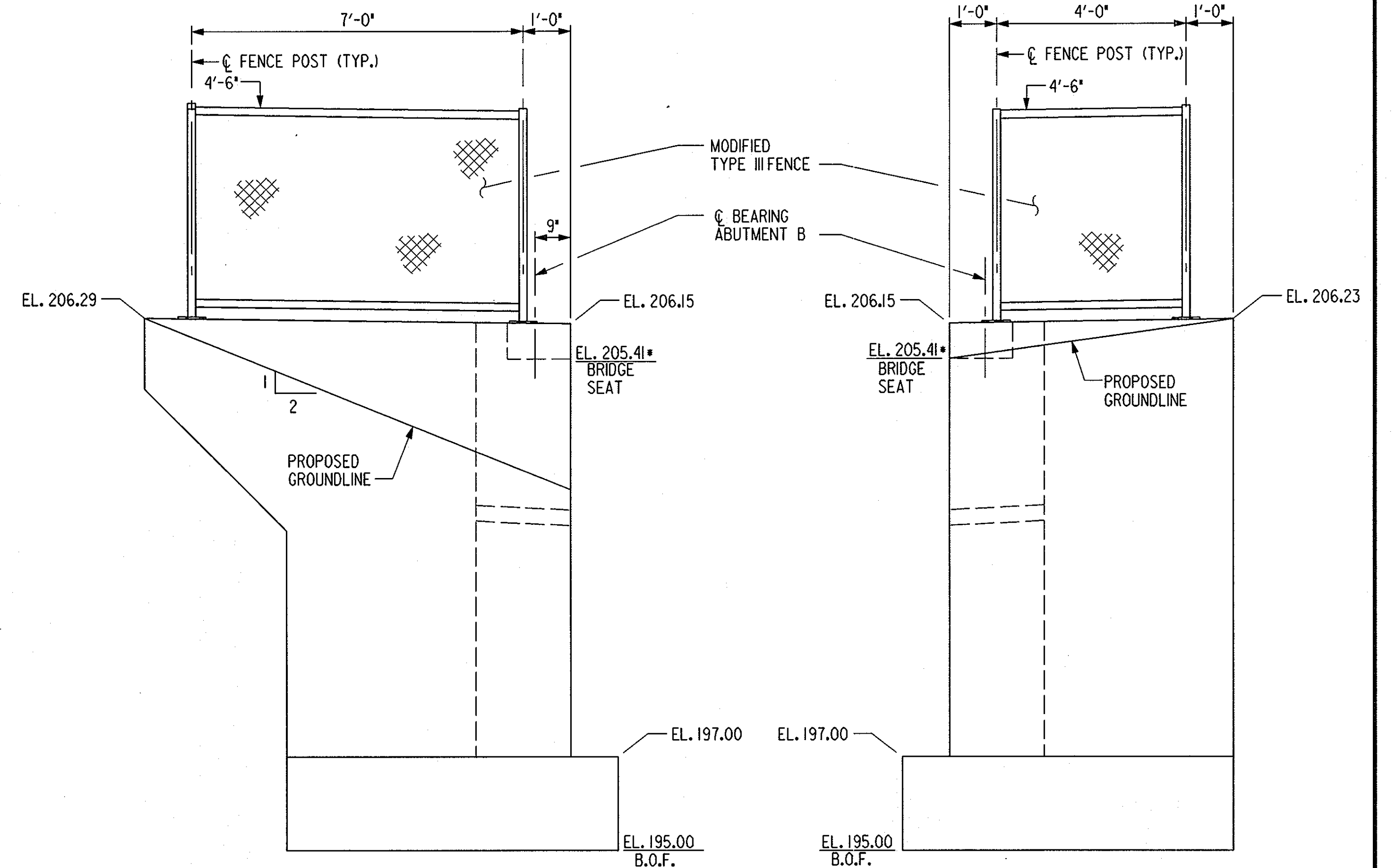




ROADSIDE WING WALL

RIGHT OF WAY WING WALL

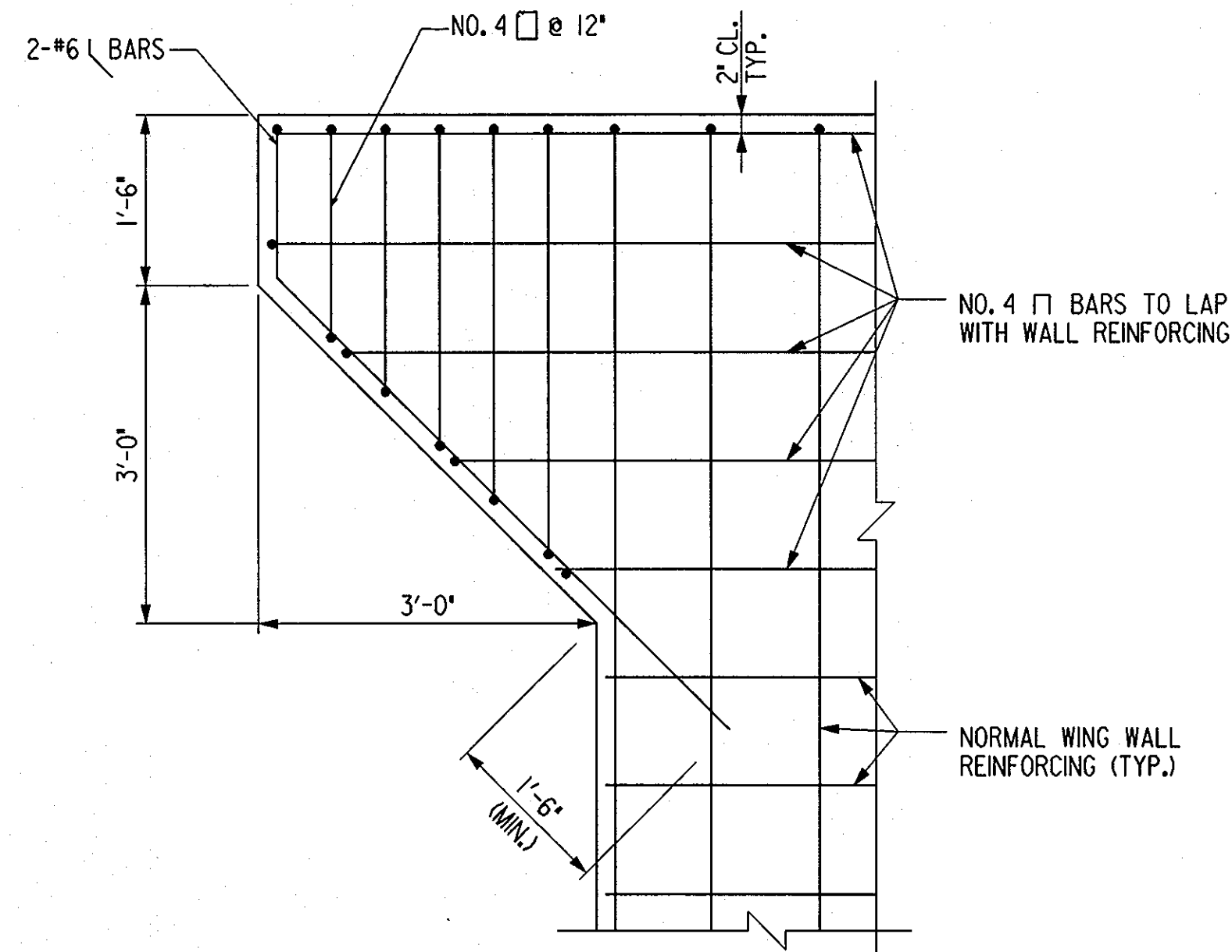
ABUTMENT A  
SCALE: 1/2" = 1'-0"



RIGHT OF WAY WING WALL

ROADSIDE WING WALL

ABUTMENT B  
SCALE: 1/2" = 1'-0"



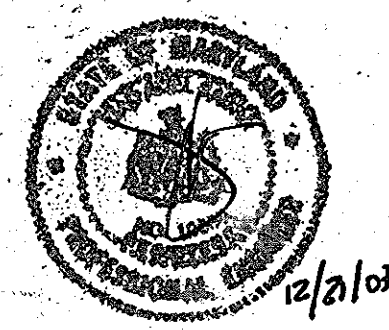
CANTILEVER REINFORCING DETAIL  
NTS

- NOTES:
- BRIDGE SEAT ELEVATIONS MAY REQUIRE ADJUSTMENTS DUE TO CHOSEN SUPERSTRUCTURE.
  - MODIFIED TYPE III FENCE TO HAVE 4'-6" HEIGHT, SEE SHA. STD. NO. BR-SS (3.12) -96-318 IN SPECIAL PROVISIONS.

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DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS DATE: 12/27/07  
 Steve Shavan 12/26/07  
 CHIEF, TRANSPORTATION & SPECIAL PROJECTS DATE: 1-17-08



SABRA, WANG & ASSOCIATES, INC.  
 1504 JOHNS AVENUE  
 SUITE 160  
 BALTIMORE, MD 21227  
 (410) 937-8904  
 WWW.SABRA-WANG.COM

DES: FC					
DRN: YM					
CHK: KJS					
DATE: 7/07	BY:	NO.:	REVISION:	DATE:	

PEDESTRIAN BRIDGE  
WING WALL  
ELEVATIONS

GUILFORD ROAD PEDESTRIAN  
SIDEWALK AND BRIDGE

HOWARD COUNTY, MARYLAND  
CAPITAL PROJECT NO. K-5040

SCALE:  
SHEET  
6 OF 7

