

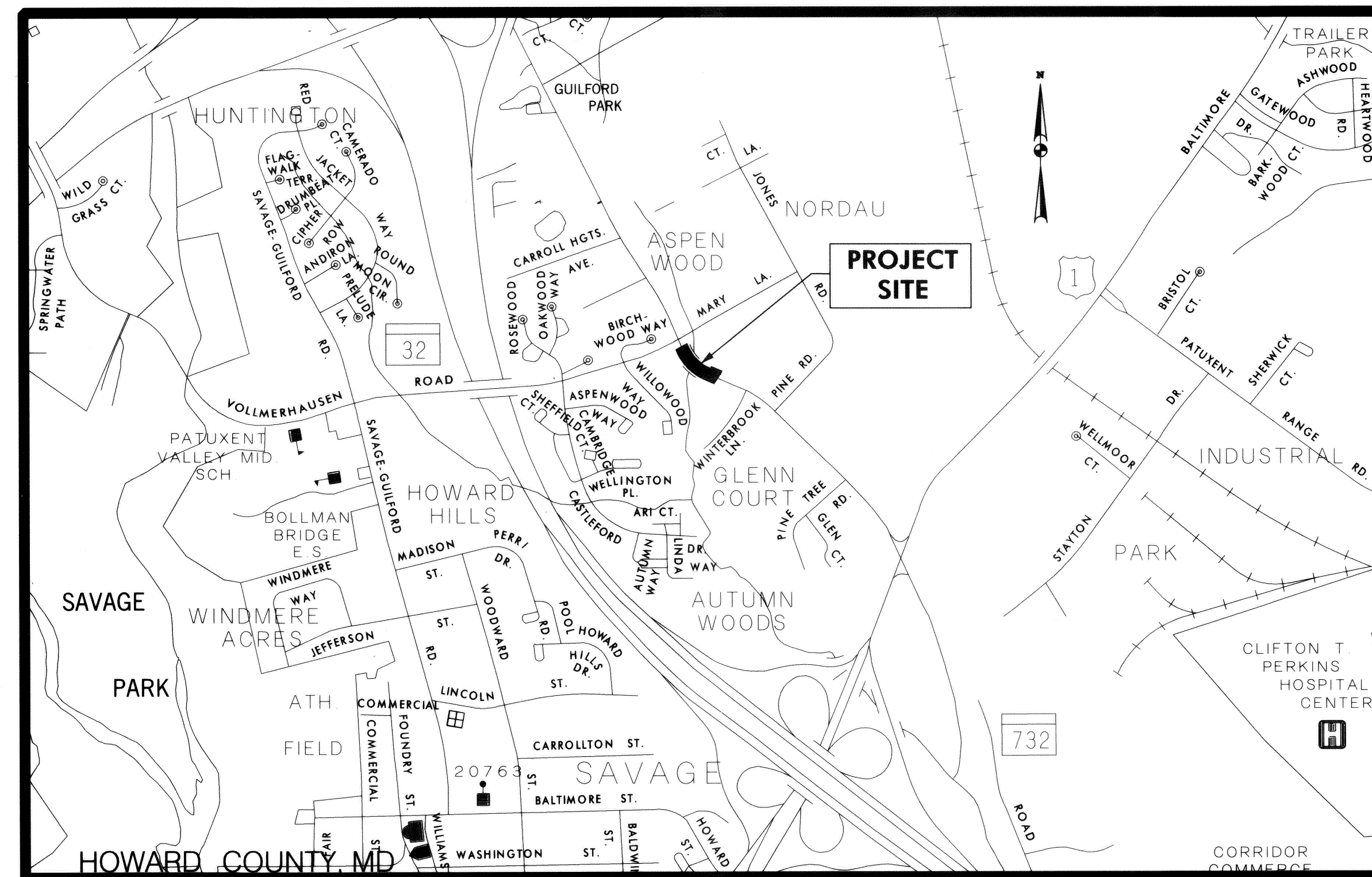
Howard County, Maryland - Department of Public Works

GUILFORD ROAD PEDESTRIAN BRIDGE

INDEX OF SHEETS

- TITLE SHEET
- ROADWAY PLAN
- ROADWAY DETAILS
- PEDESTRIAN BRIDGE GENERAL PLAN AND ELEVATION
- PEDESTRIAN BRIDGE ABUTMENT GENERAL PLAN & ELEVATION AND TYPICAL SECTION.
- PEDESTRIAN BRIDGE WING WALL ELEVATIONS
- PEDESTRIAN BRIDGE DETAILS

CAPITAL PROJECT NO. K-5040



PROJECT LENGTH: 0.07 MILES

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

GENERAL NOTES

- ALL STATIONING AND DIMENSIONING ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.
- 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:

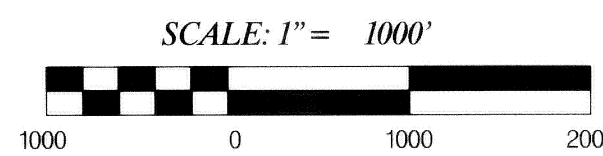
MISS UTILITY 1-800-257-7777
CONSTRUCTION INSPECTION DIVISION, HOWARD COUNTY 410-313-1880
STATE HIGHWAY ADMINISTRATION DISTRICT 7- 301-624-8100
BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC 410-855-6958
BALTIMORE GAS & ELECTRIC COMPANY - GAS ENGINEERING AND CONSTRUCTION 410-291-5834
DISTRIBUTION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

- 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.
- 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.
- 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.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MD SHA STANDARDS AND SPECIFICATIONS.
- STAGING AND STOCKPILE AREA WILL BE DETERMINED BY CONTRACTOR, AND AS APPROVED BY THE COUNTY ENGINEER.
- COORDINATES SHOWN HEREON ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 83'.
- HORIZONTAL SITE CONTROL IS NAD83 (91). VERTICAL SITE CONTROL IS NGVD29.
- 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			

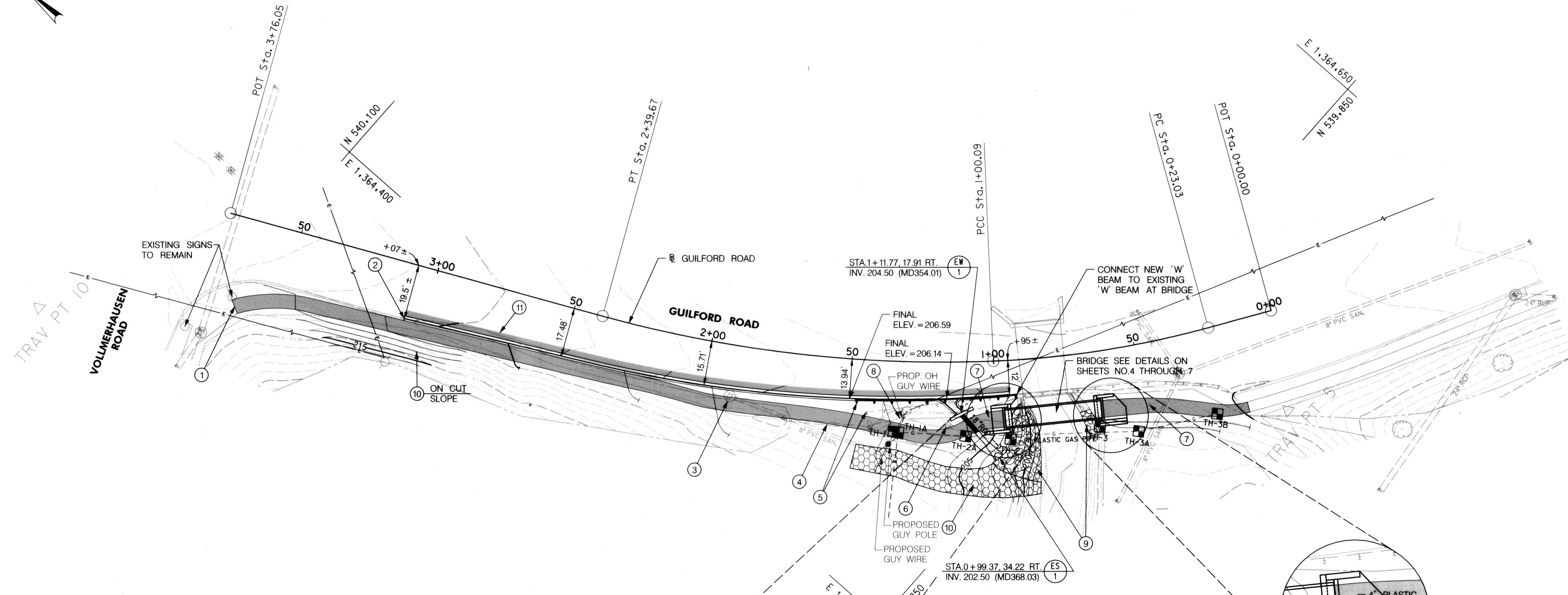
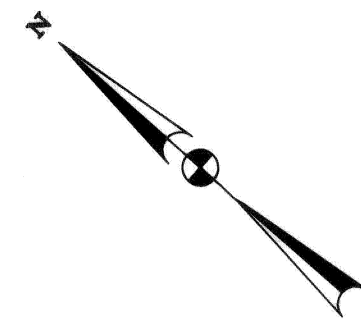


SHEETS 1, 2 & 3 OF 7
PROFESSIONAL CERTIFICATION
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156, EXPIRATION DATE: 8/28/2008."

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."

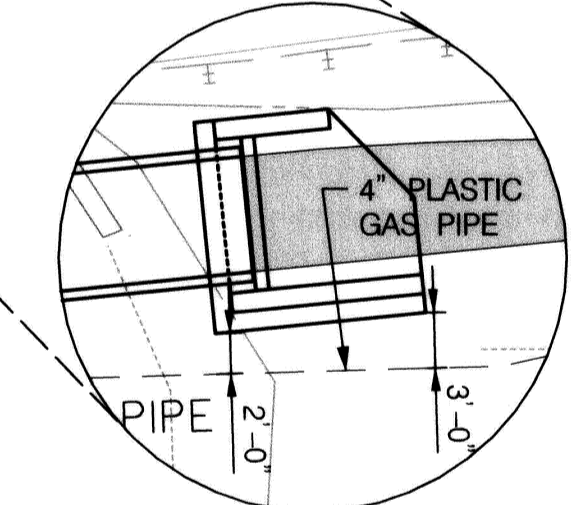
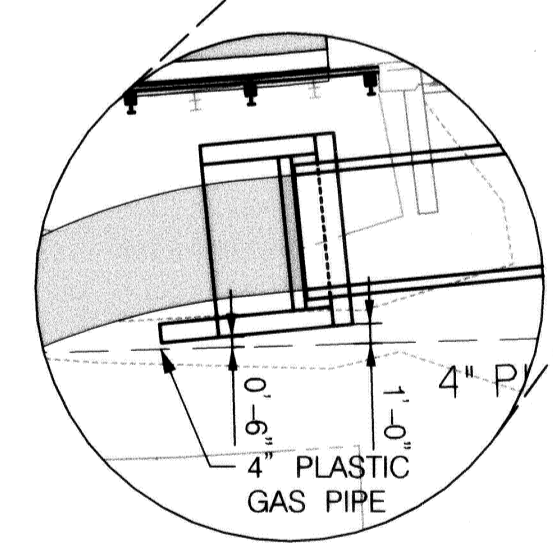


DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS DATE 12/27/07 Steve Shamer 1426/07 CHIEF, TRANSPORTATION SPECIAL PROJECTS DATE		URS HUNT VALLEY, MARYLAND SABRA WANG & ASSOCIATES, INC. 1000 JEE STREET BALTIMORE, MD 21201 WWW.SABRA-WANG.COM		DES: DRN: CHK: DTM DATE: 06/08/07	BY: NO. REVISION DATE	TITLE SHEET NO.: DATE:	SCALE AS SHOWN SHEET 1 OF 7 GUILFORD ROAD PEDESTRIAN BRIDGE HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. K-5040
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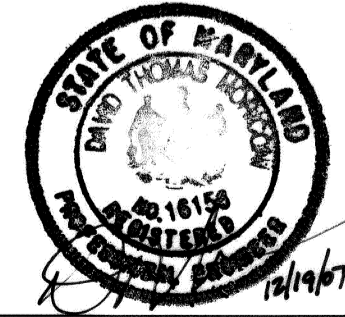
CONSTRUCTION NOTES

- 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



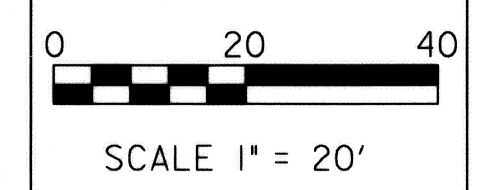
TRAVERSE POINTS			
POINT	ELEVATION	NORTHING	EASTING
5	206.08	1,364,550.9600	539,790.9870
6	222.06	1,365,011.1220	539,569.5100
10	214.68	1,364,286.2870	540,146.1050

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



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

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



URS
HUNT VALLEY, MARYLAND



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

ROADWAY PLAN

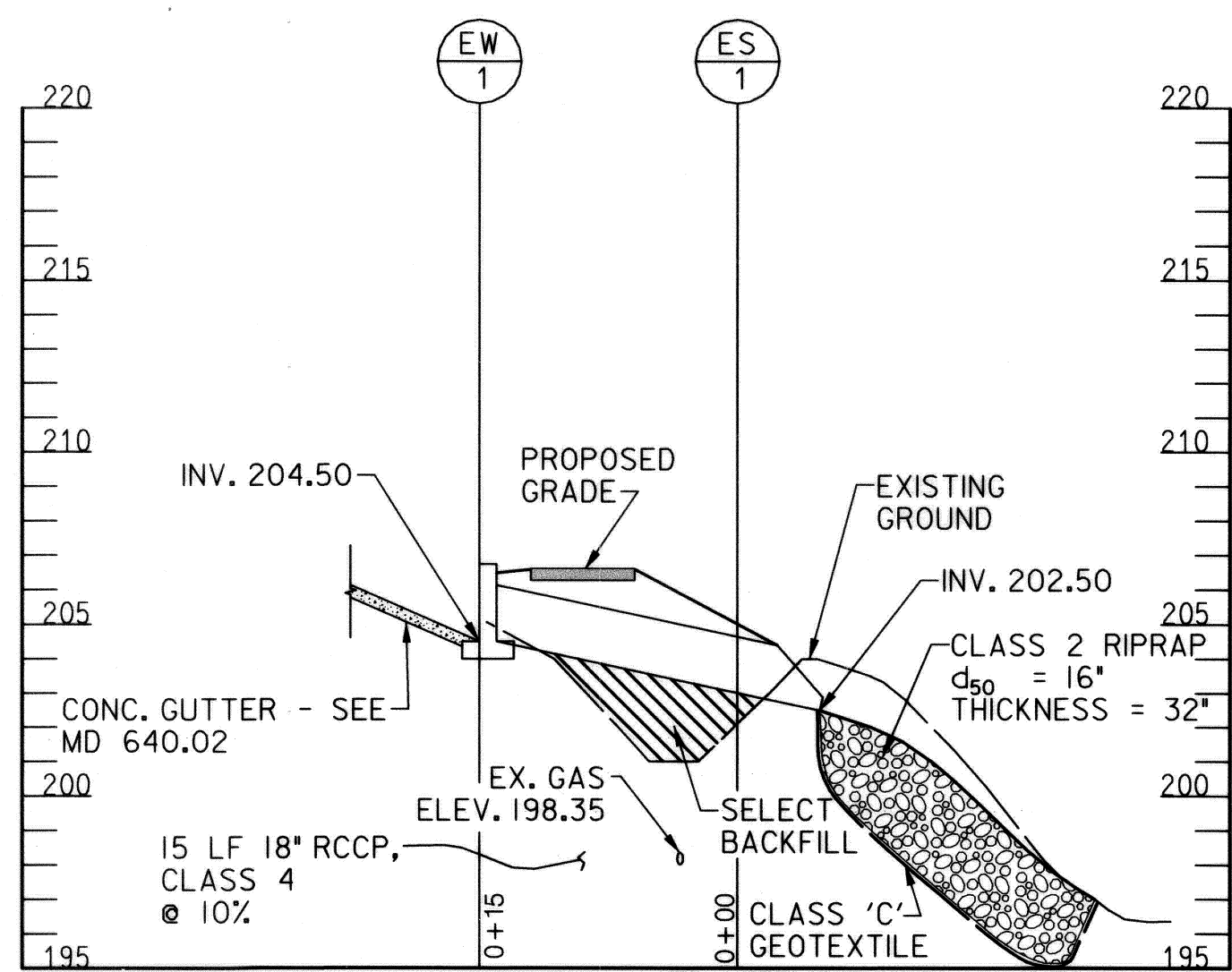
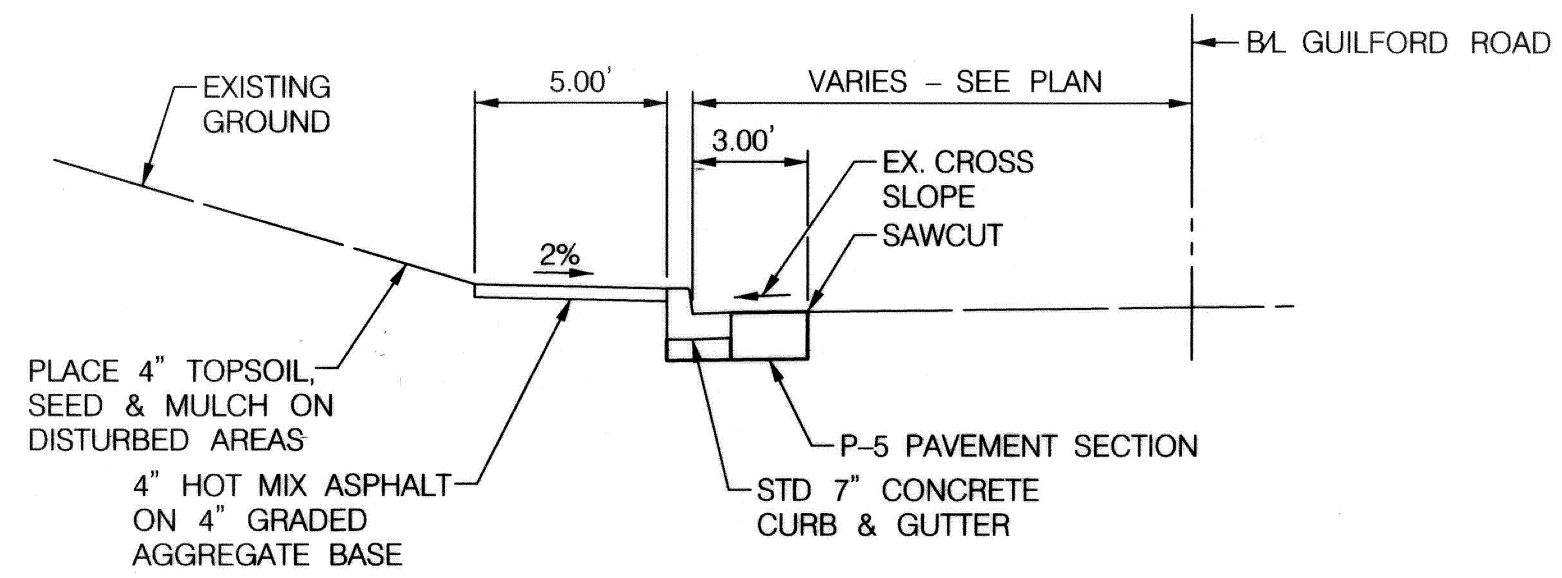
NO.: _____ DATE: _____

**GUILFORD ROAD
PEDESTRIAN BRIDGE**

HOWARD COUNTY, MARYLAND
CAPITAL PROJECT NO. K-5040

SCALE AS SHOWN
SHEET 2 OF 7

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

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DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

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

Paul J. Ryan 12/27/07
 CHEF, BUREAU OF ENGINEERING
William J. ... 1-17-07
 CHEF, BUREAU OF HIGHWAYS



URS
 HUNT VALLEY, MARYLAND



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

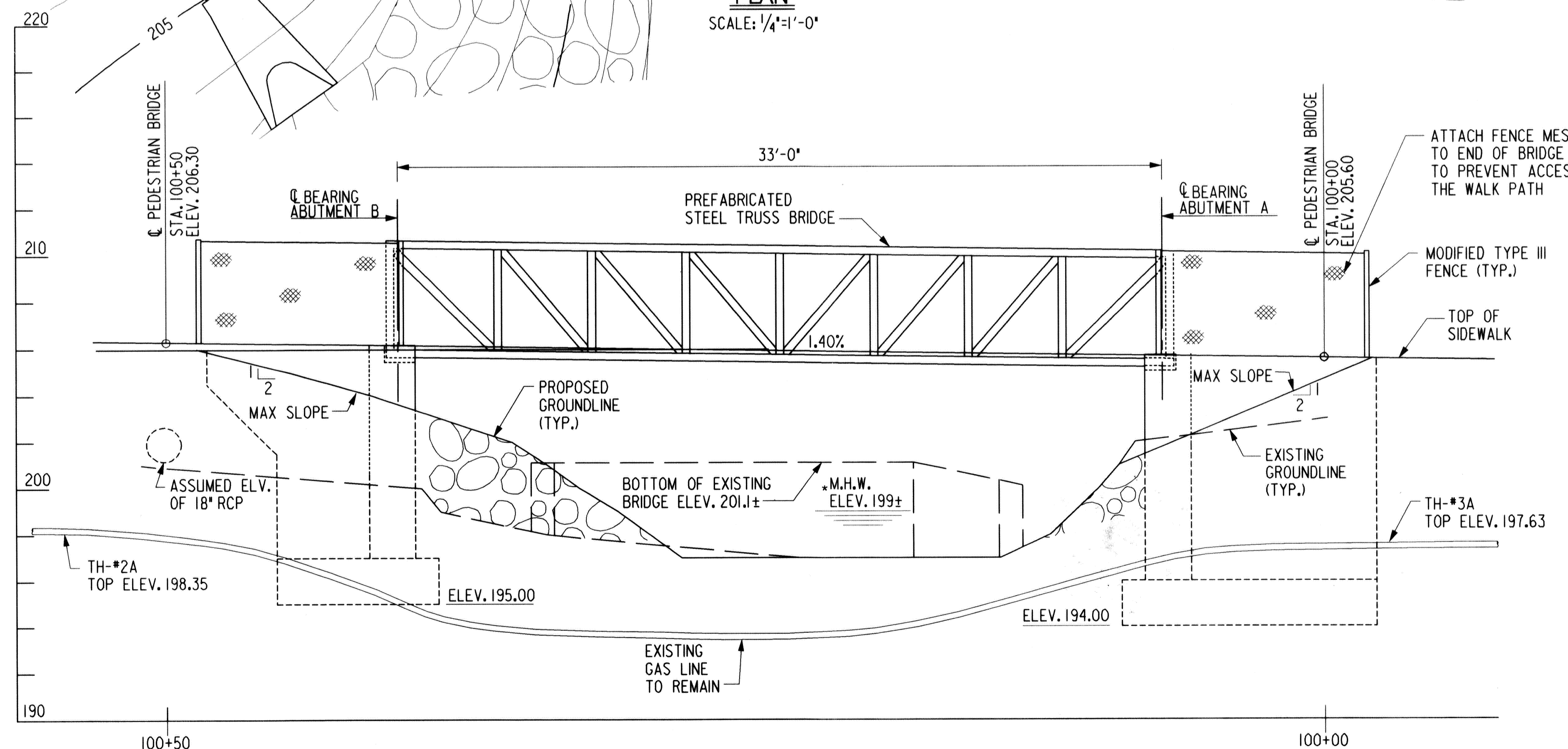
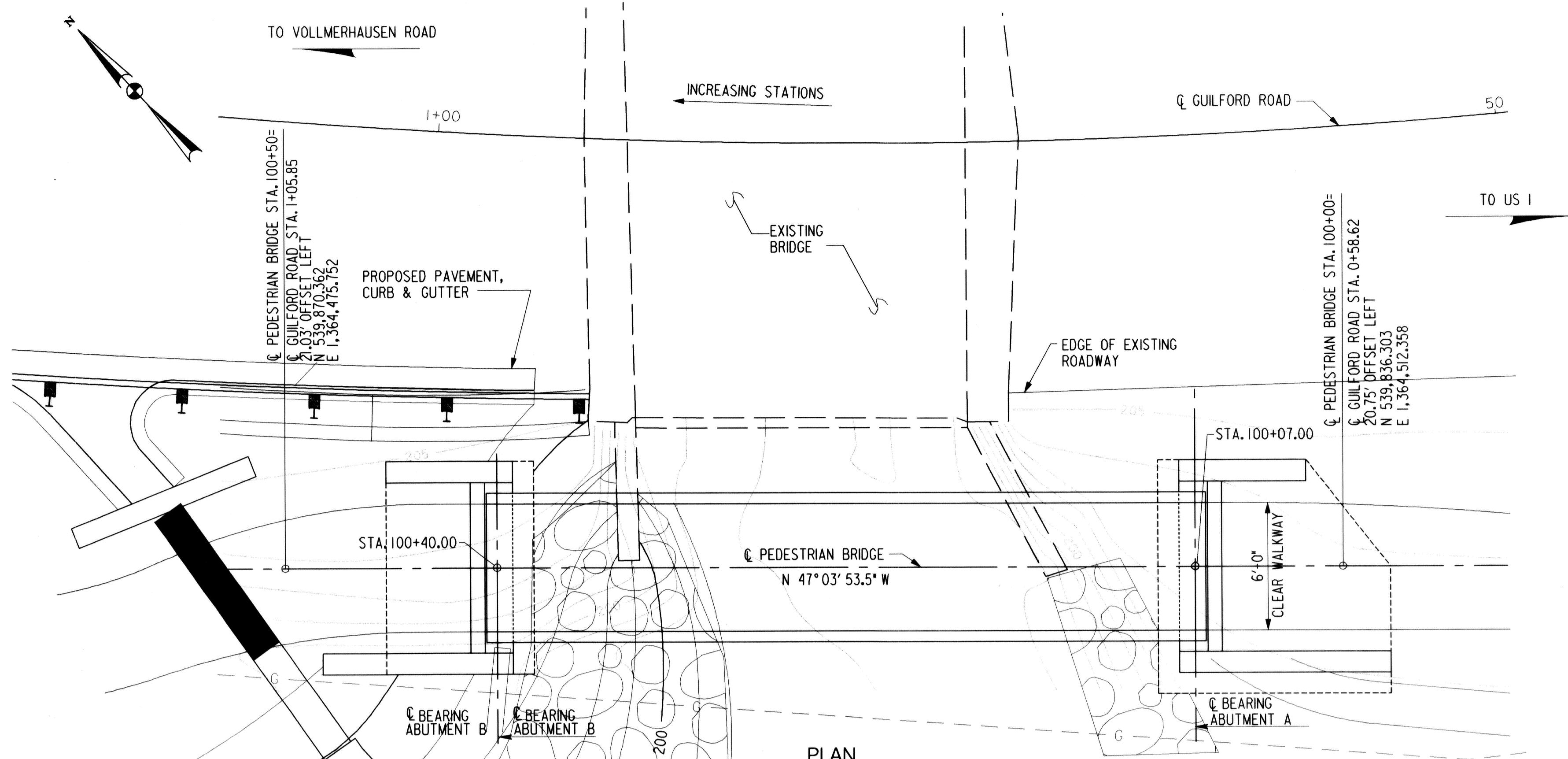
ROADWAY DETAILS

**GUILFORD ROAD
 PEDESTRIAN BRIDGE**

HOWARD COUNTY, MARYLAND
 CAPITAL PROJECT NO. K-5040

SCALE AS SHOWN
 SHEET 3 OF 7

NO.: _____ DATE: _____



PEDESTRIAN BRIDGE GENERAL NOTES

- SPECIFICATIONS:** MD SHA STANDARD SPECIFICATIONS, DATED JANUARY 2001, AND ALL REVISIONS THEREOF AND ADDITIONS THERETO AND SPECIAL PROVISIONS FOR CONSTRUCTION AND MATERIALS.
- AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH ED., DATED 2002 FOR DESIGN INCLUDING THE MARCH 2005 ERRATA.
- AASHTO GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, 1ST. ED., DATED 1997.
- LOADING:** PEDESTRIAN LIVE LOAD OF 85 PSF OR H-5 (10,000 LBS.) VEHICLE. SUPERSTRUCTURE DEFLECTIONS LIMIT=SPAN LENGTH/500 FOR PEDESTRIAN LOADING. SUBSTRUCTURE HAS BEEN DESIGNED FOR 11,700 LBS. OF DEAD LOAD REACTION. GREATER DEAD LOAD MAY REQUIRE SUBSTRUCTURE MODIFICATIONS.
- CONCRETE:** ALL ABUTMENT CONCRETE SHALL BE MIX NO. 3 (f'c=3,500 PSI). CONCRETE DESIGN: LOAD FACTOR DESIGN METHOD
- ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED WITH 3/4" x 3/4" MILLED CHAMFER STRIPS UNLESS OTHERWISE NOTED EXCEPT ON UNEXPOSED FOOTINGS OR WHERE INDICATED BY THE FOLLOWING NOTATION ON THE PLANS 'DO NOT CHAMFER'.
- KEYS:** ALL KEYS ARE NOMINAL SIZE.
- REINFORCING STEEL:** REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 (fy=60,000 PSI). ALL SPLICES, NOT SHOWN, SHALL BE LAPPED IN ACCORDANCE WITH AASHTO CRITERIA. MINIMUM COVER FOR ANY BAR SHALL BE 2" UNLESS OTHERWISE NOTED, WITH THE EXCEPTION OF BARS AT THE BOTTOM AND SIDES OF ALL FOOTINGS WHICH SHALL HAVE 3" MINIMUM CLEARANCE.
- ONLY GRADE 60 CAN BE USED ON THIS PROJECT.
- STRUCTURAL STEEL:** ALL STRUCTURAL STEEL SHALL BE GRADE 50 (fy=50,000 PSI) WEATHERING STEEL. PLATES AND SHAPES SHALL CONFORM TO ASTM A242 OR A588, TUBULAR SECTIONS SHALL CONFORM TO ASTM A606 OR A847. ALL BOLTS SHALL CONFORM TO ASTM A325, TYPE 3. ALL WELDING SHALL CONFORM TO AWS STRUCTURAL WELDING CODE. STEEL MEMBERS SHALL BE PROPORTIONED BY THE SERVICE LOAD DESIGN METHOD.
- PREFABRICATED SUPERSTRUCTURE SHALL BE A HALF-THROUGH STEEL PRATT TRUSS. SEE SPECIAL PROVISIONS FOR FURTHER INFORMATION.
- EXISTING STRUCTURES:** ALL DIMENSIONS AFFECTED BY THE GEOMETRICS, AND/OR LOCATION OF THE EXISTING STRUCTURE SHALL BE CHECKED IN THE FIELD BY THE CONTRACTOR, BEFORE ANY CONSTRUCTION IS DONE, AND BEFORE ANY MATERIALS ARE ORDERED OR FABRICATED. THIS INCLUDES VERIFYING THE EXISTING GROUND ELEVATIONS, LOCATION OF THE STREAM AND PRESENCE OF ANY EXISTING BURIED AND AERIAL UTILITIES THAT MAY IMPEDED CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY THE ENGINEER WITH ALL FIELD DIMENSIONS REQUIRED TO CHECK DETAILED DRAWINGS OR IF ANY DISCREPANCIES EXIST BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING PROJECT SITE. THESE ± MARKS SHOWN WITH DIMENSIONS AND STATIONS DO NOT INDICATE ANY DEGREE OF PRECISION. THESE MARKS (±) INDICATE EXISTING DIMENSIONS AND STATIONS THAT MAY VARY AND DO REQUIRE VERIFICATION BY THE CONTRACTOR IN THE FIELD.
- HYDRAULIC & HYDROLOGICAL DATA:** NO DETAILED HYDRAULIC OR HYDROLOGICAL STUDIES HAVE BEEN UNDERTAKEN FOR THIS STRUCTURE. NO DETAILED SCOUR ANALYSIS WAS DEVELOPED. FOR RIPRAP SCOUR PROTECTION AROUND ABUTMENTS SEE ROADWAY PLAN.
- DATUM:** HORIZONTAL CONTROL = NAD 83/91; VERTICAL CONTROL = NGVD 29

PEDESTRIAN BRIDGE CONSTRUCTION NOTES:

- THE MAXIMUM ALLOWABLE BEARING PRESSURE IS 3 KSF, FOR SOIL BORINGS SEE SPECIAL PROVISIONS.
- CONTRACTOR SHALL BE AWARE OF THE VARIABLE STREAM MEAN HIGH WATER (MHW) ELEVATION. MHW ELEVATION SHOWN IS APPROXIMATE.
- STREAM DIVERSION/PROTECTION MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR INCLUDING ANY REINSTALLATION NECESSARY DUE TO UNFORESEEN HIGH FLOW EVENTS.
- CONTRACTOR SHALL BE AWARE OF THE NEED FOR TEMPORARY SUPPORT OF EXCAVATION ALONG GUILFORD ROAD. TEMPORARY SUPPORT MEASURES SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR AND SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL.
- VEHICULAR TRAFFIC ON GUILFORD ROAD SHALL BE PROTECTED WITH TEMPORARY CONCRETE DOUBLE FACE BARRIER DURING OPEN EXCAVATIONS.
- AS A FIRST ORDER OF WORK THE CONTRACTOR SHALL FIELD VERIFY THERE ARE NO CONFLICTS BETWEEN THE EXISTING BRIDGE AND THE PROPOSED PEDESTRIAN BRIDGE AS PLANNED. IF CONFLICTS DO EXIST THE CONTRACTOR SHALL NOTIFY THE COUNTY IMMEDIATELY.
- THE CONTRACTOR SHALL FIELD LOCATE ANY ALL EXISTING UTILITIES WITHIN THE WORK LIMITS AND NOTIFY THE COUNTY IMMEDIATELY IF ANY CONFLICTS EXIST BETWEEN FIELD CONDITIONS AND PLANNED CONSTRUCTION.
- PROPOSED APPROACH SIDEWALKS SHALL BE ADJUSTED TO ACCOMMODATE PROPOSED PEDESTRIAN BRIDGE ALIGNMENT AND PROFILE.

NOTES:

- FOR PROPOSED SUPERSTRUCTURE TYPICAL SECTION SEE DWG. NO. S-2.
- FOR ABUTMENT GENERAL PLAN & ELEVATION DETAILS SEE DWG. NO. S-2.
- FOR GEOMETRIC LAYOUT DATA SEE DWG. NO. S-2.
- FOR WING WALL ELEVATION DETAILS SEE DWG. NO. S-3.
- FOR REINFORCING DETAILS SEE DWG. NO. S-4.
- FOR ADDITIONAL INFORMATION AND DETAILS SEE SPECIAL PROVISIONS.

R:\2005\13 Howard Co. IRRS Eng. Serv. (cont.)\DWG\Struct\WB0701.dwg

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS DATE: 12/27/07
Steve Shanahan 12/26/07
CHIEF, TRANSPORTATION & SPECIAL PROJECTS

CHIEF, BUREAU OF ENGINEERING DATE: 12/27/07
Willie J. ...
CHIEF, BUREAU OF HIGHWAYS



SABRA, WANG & ASSOCIATES, INC.
1904 JOH ANNENUE
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	NO.	DATE

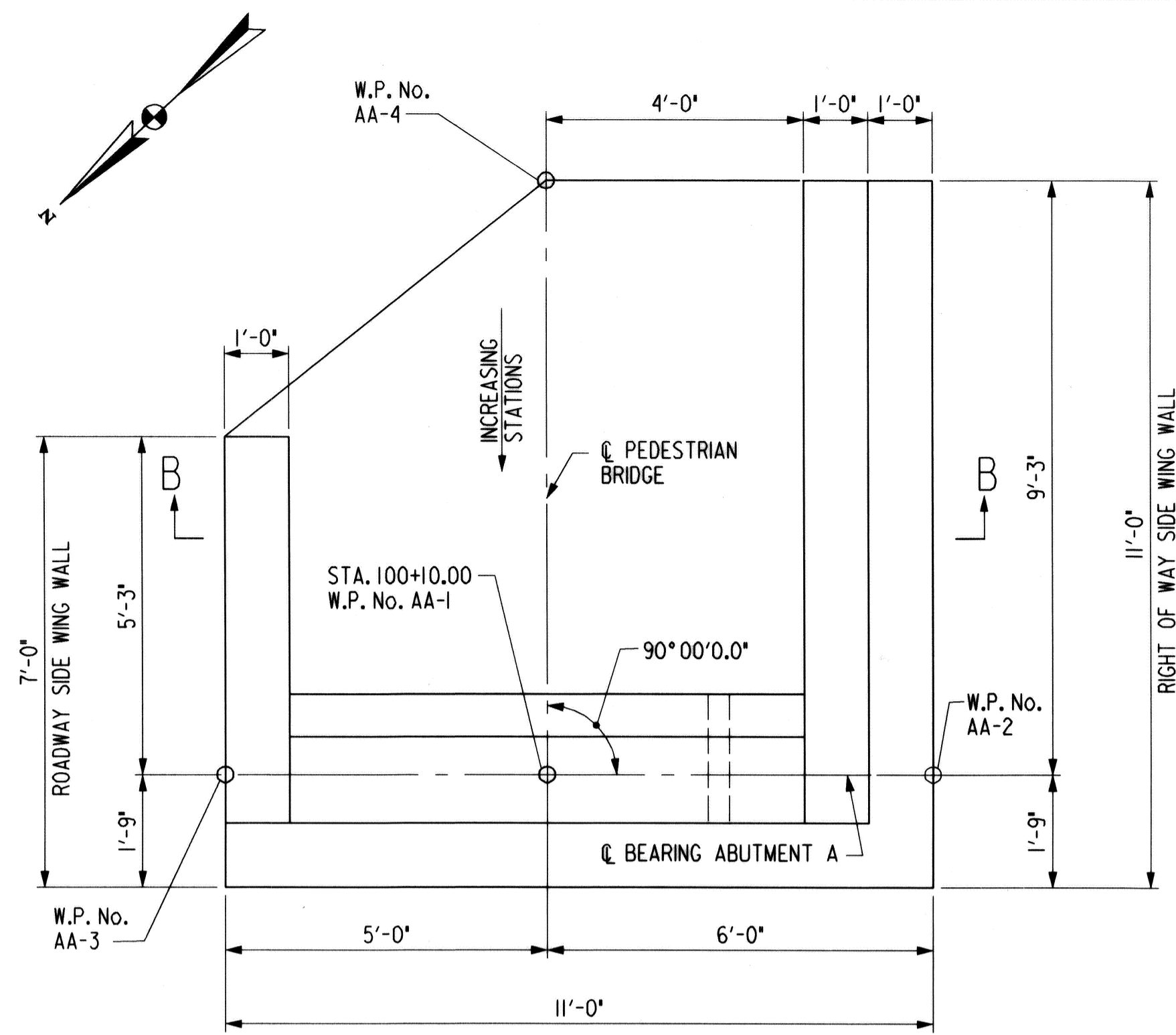
**PEDESTRIAN BRIDGE
GENERAL PLAN
AND ELEVATION**

NO. _____ DATE: 12/07

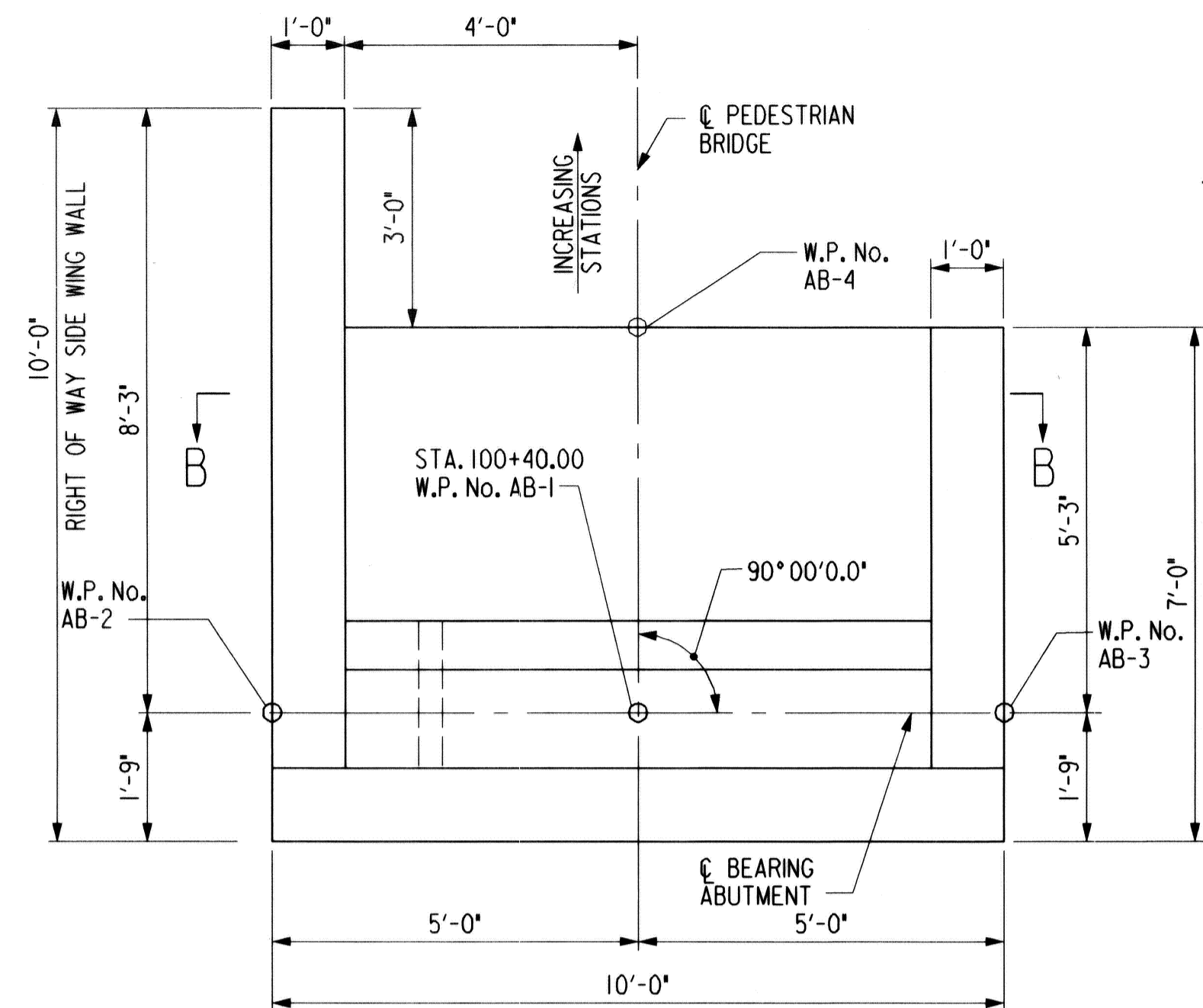
**GUILFORD ROAD
PEDESTRIAN SIDEWALK AND BRIDGE**

HOWARD COUNTY, MARYLAND
CAPITAL PROJECT NO. K-5040

SCALE: AS SHOWN
SHEET 4 OF 7

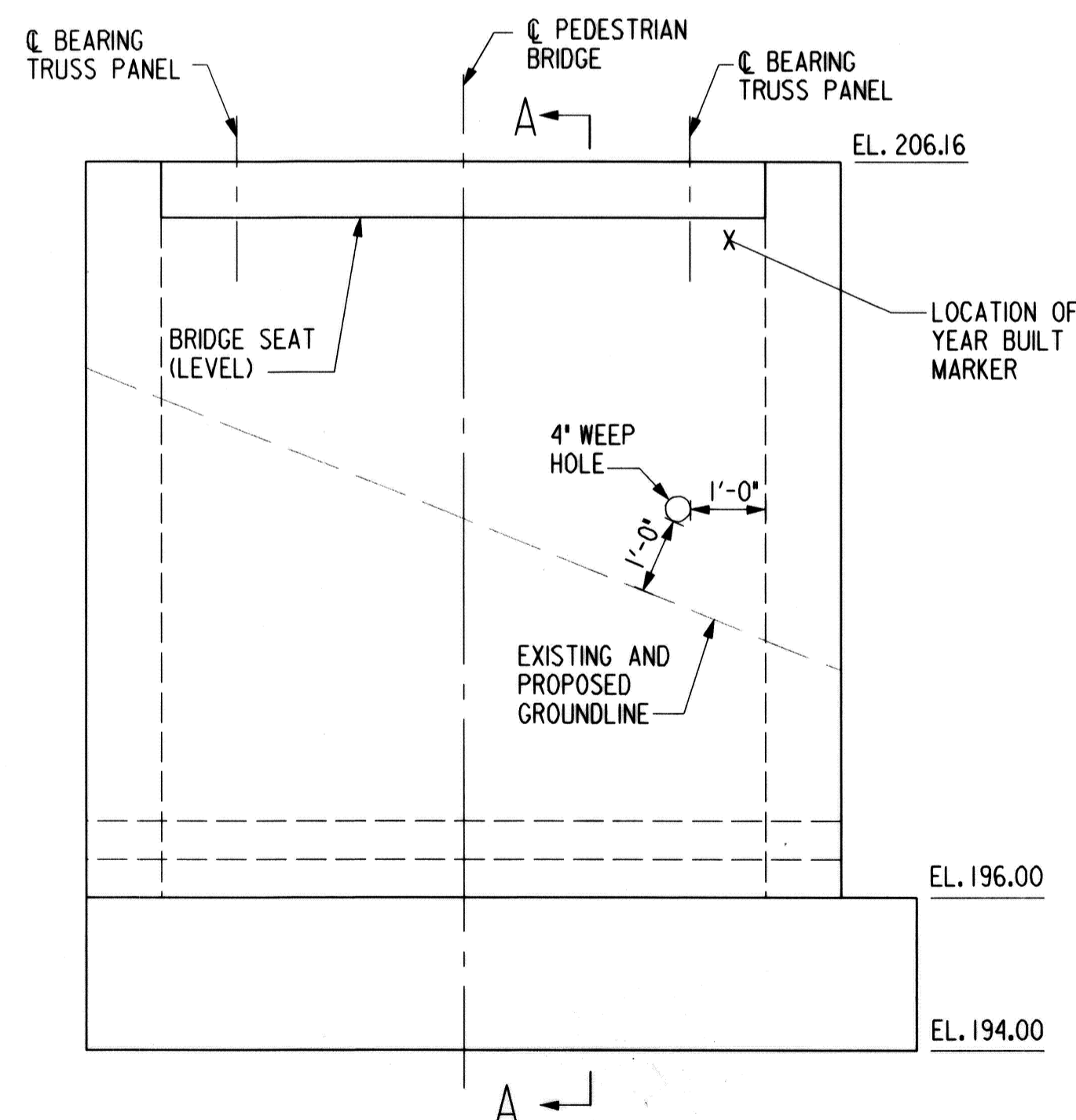


ABUTMENT A PLAN
SCALE: 1/2" = 1'-0"

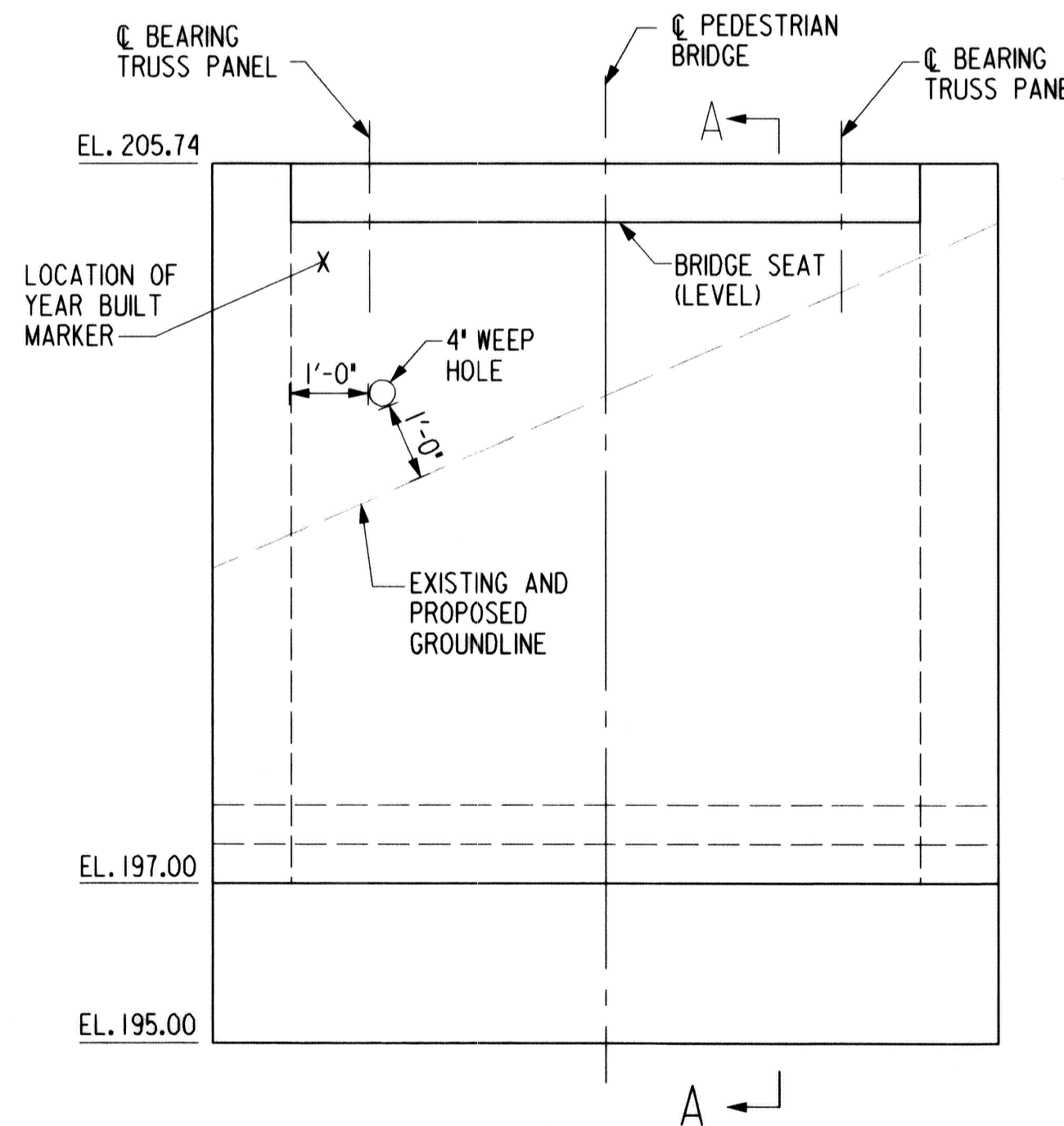


ABUTMENT B PLAN
SCALE: 1/2" = 1'-0"

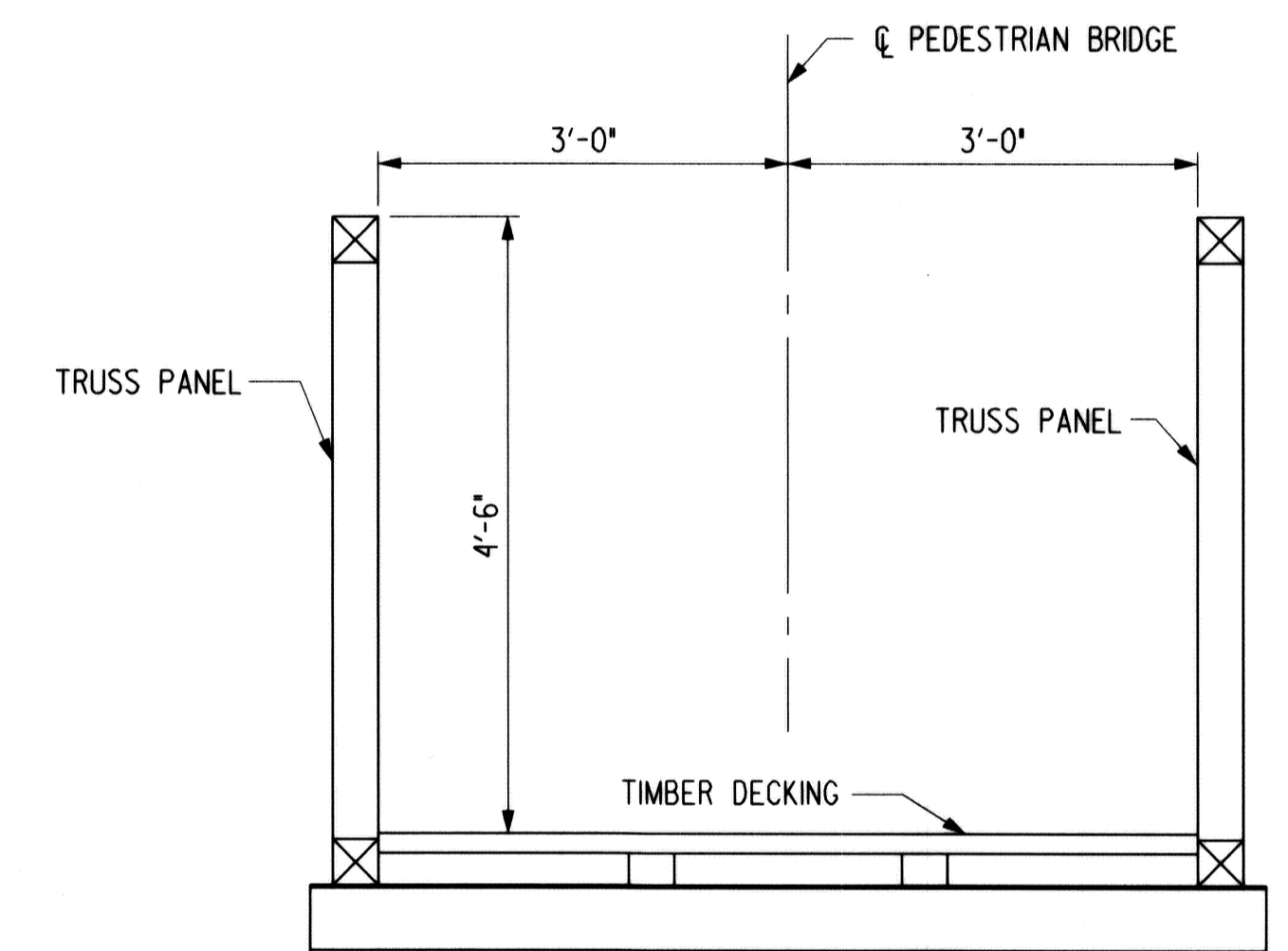
WORKING POINTS DATA				
W.P. NO.	PEDESTRIAN BRIDGE STATION	OFFSET	NORTHING	EASTING
AA-1	100+07.00	-0-	539,841.07	1,364,507.04
AA-2	100+07.00	6.00' L.T.	539,836.68	1,364,503.15
AA-3	100+07.00	5.00' R.T.	539,844.73	1,364,510.64
AA-4	199+98.75	-0-	539,834.77	1,364,514.01
AB-1	100+40.00	-0-	539,863.55	1,364,483.07
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 (0.07)- 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, BUREAU OF HIGHWAYS



SABRA WANG & ASSOCIATES, INC.
1904 JOH AVENUE
SUITE 100
BALTIMORE, MD 21227
(410) 737-8564
WWW.SABRA-WANG.COM

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

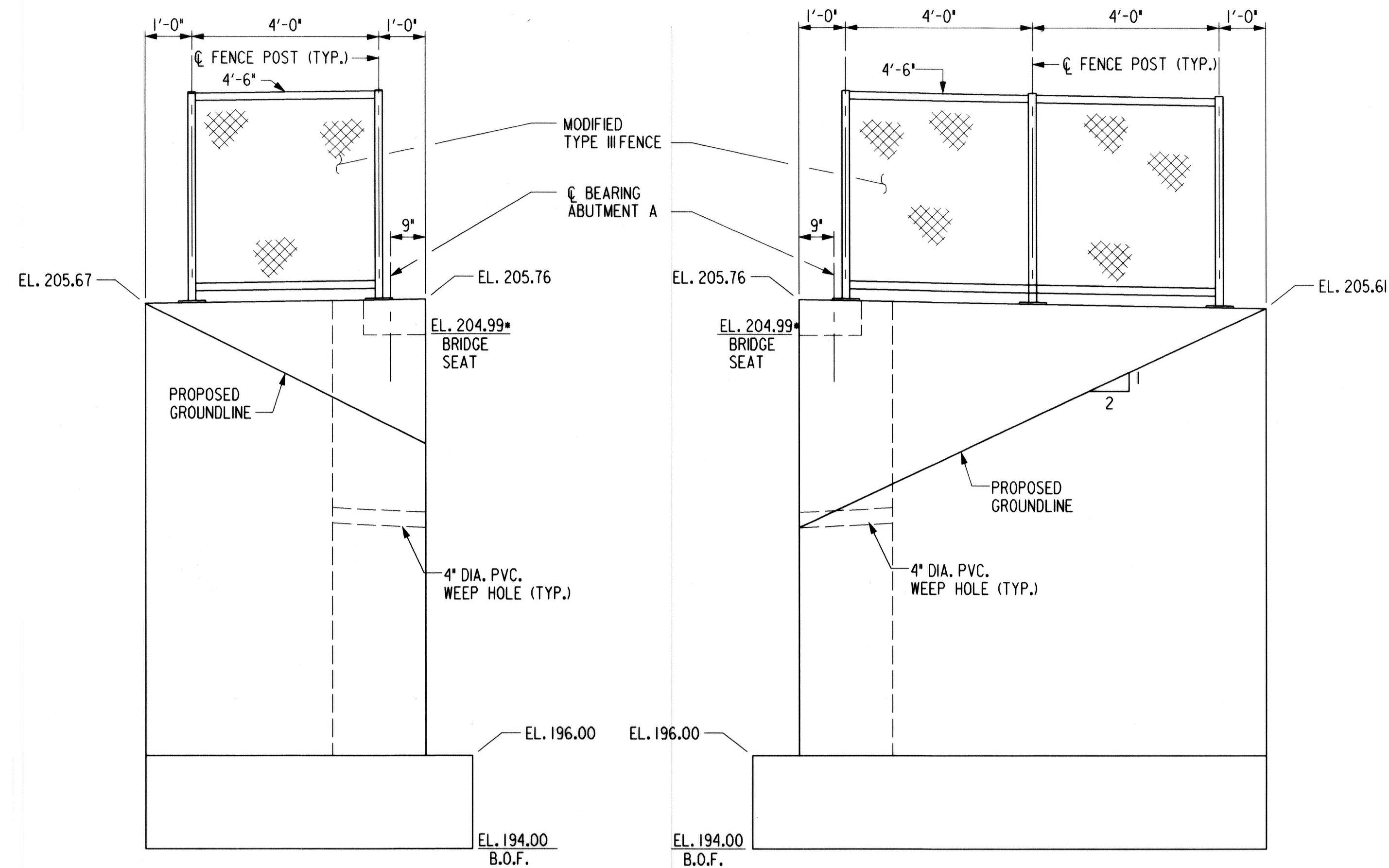
**PEDESTRIAN BRIDGE
ABUTMENT GENERAL
PLAN & ELEVATION
AND TYPICAL SECTION**

NO.: _____ DATE: 12/07

**GUILDFORD ROAD
PEDESTRIAN SIDEWALK AND BRIDGE**
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT NO. K-5040

DWG. No. S-2

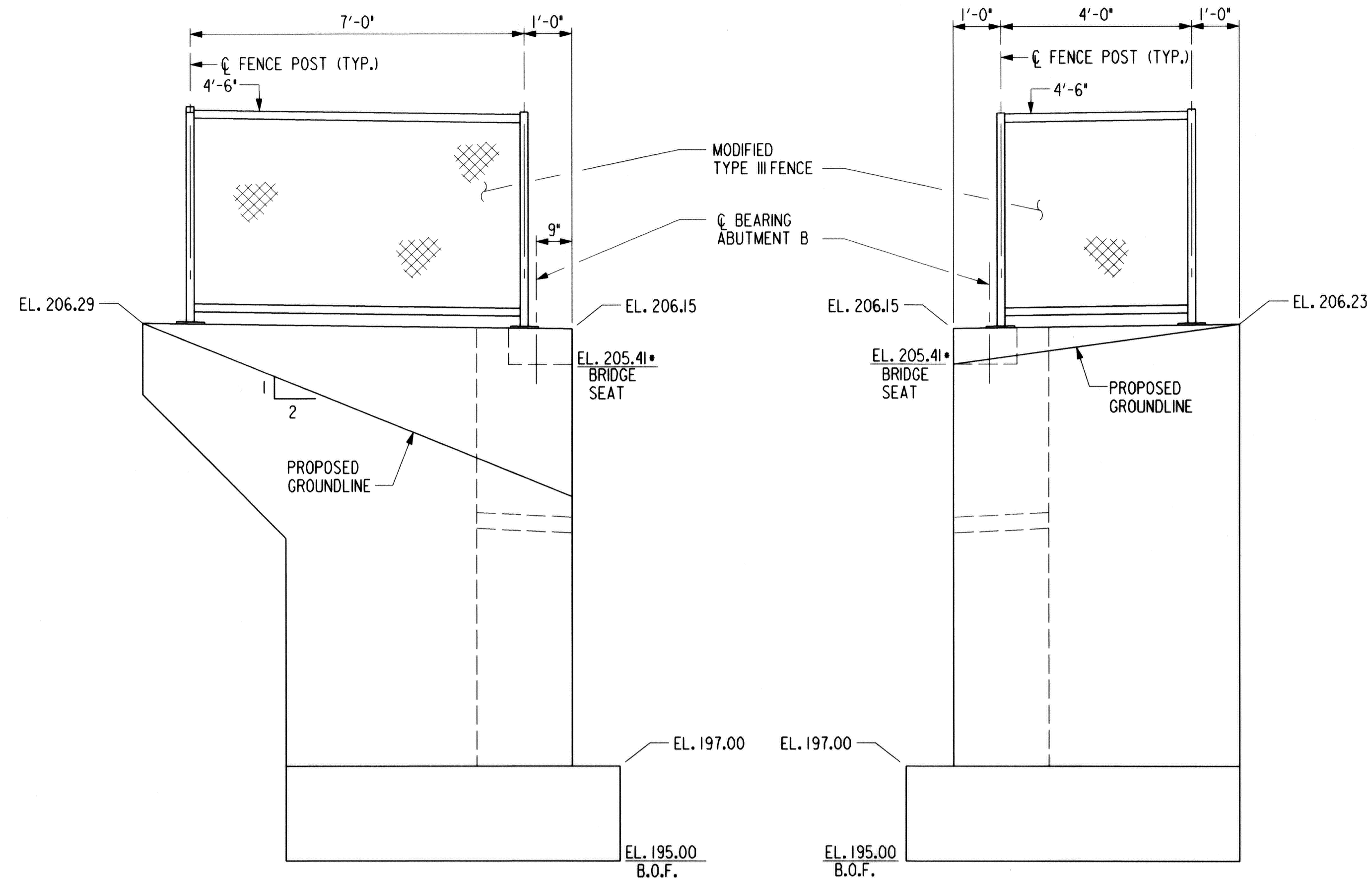
SCALE:
AS
SHOWN
SHEET
5 OF 7



ROADSIDE WING WALL

RIGHT OF WAY WING WALL

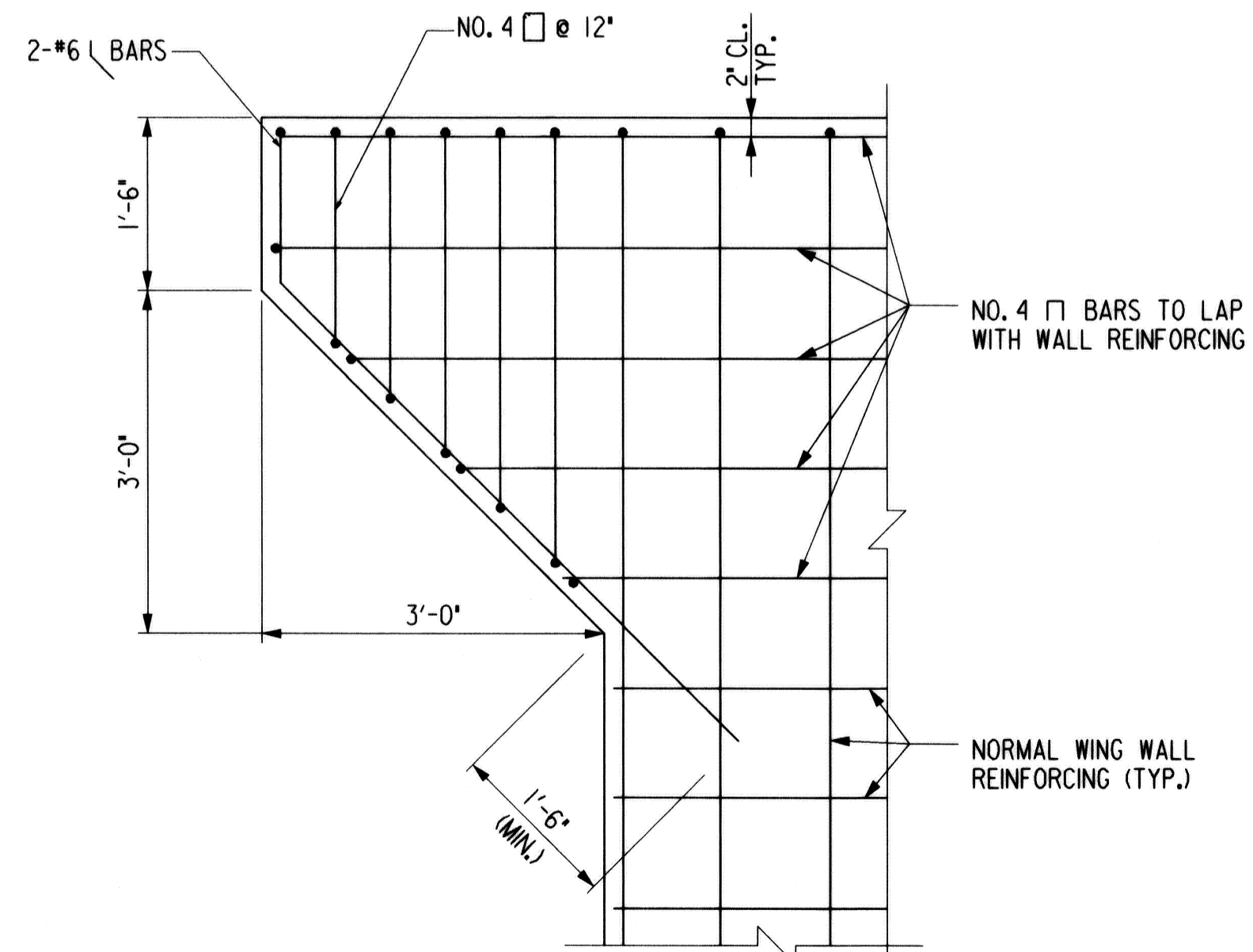
ABUTMENT A
SCALE: 1/2" = 1'-0"



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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DWG. No. S-3

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

CHIEF, BUREAU OF ENGINEERING DATE: 12/27/07
 Wally Z. Hill 1-17-09
 CHIEF, BUREAU OF HIGHWAYS DATE



SABRA, WANG & ASSOCIATES, INC.
 1504 JOH AVENUE
 SUITE 100
 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
WING WALL
ELEVATIONS

NO.: _____ DATE: 12/07

GUILFORD ROAD PEDESTRIAN
SIDEWALK AND BRIDGE

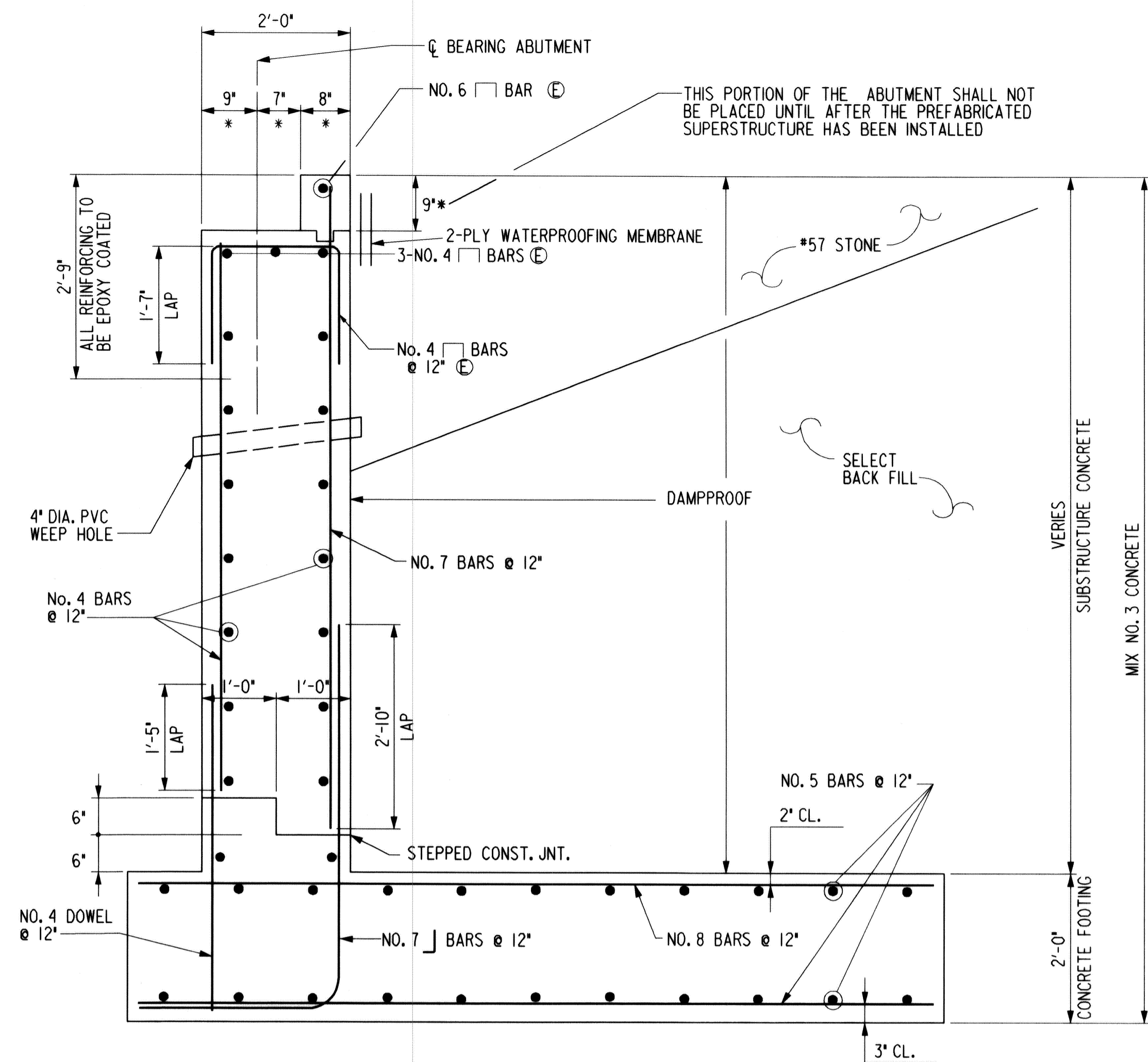
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT NO. K-5040

SCALE:

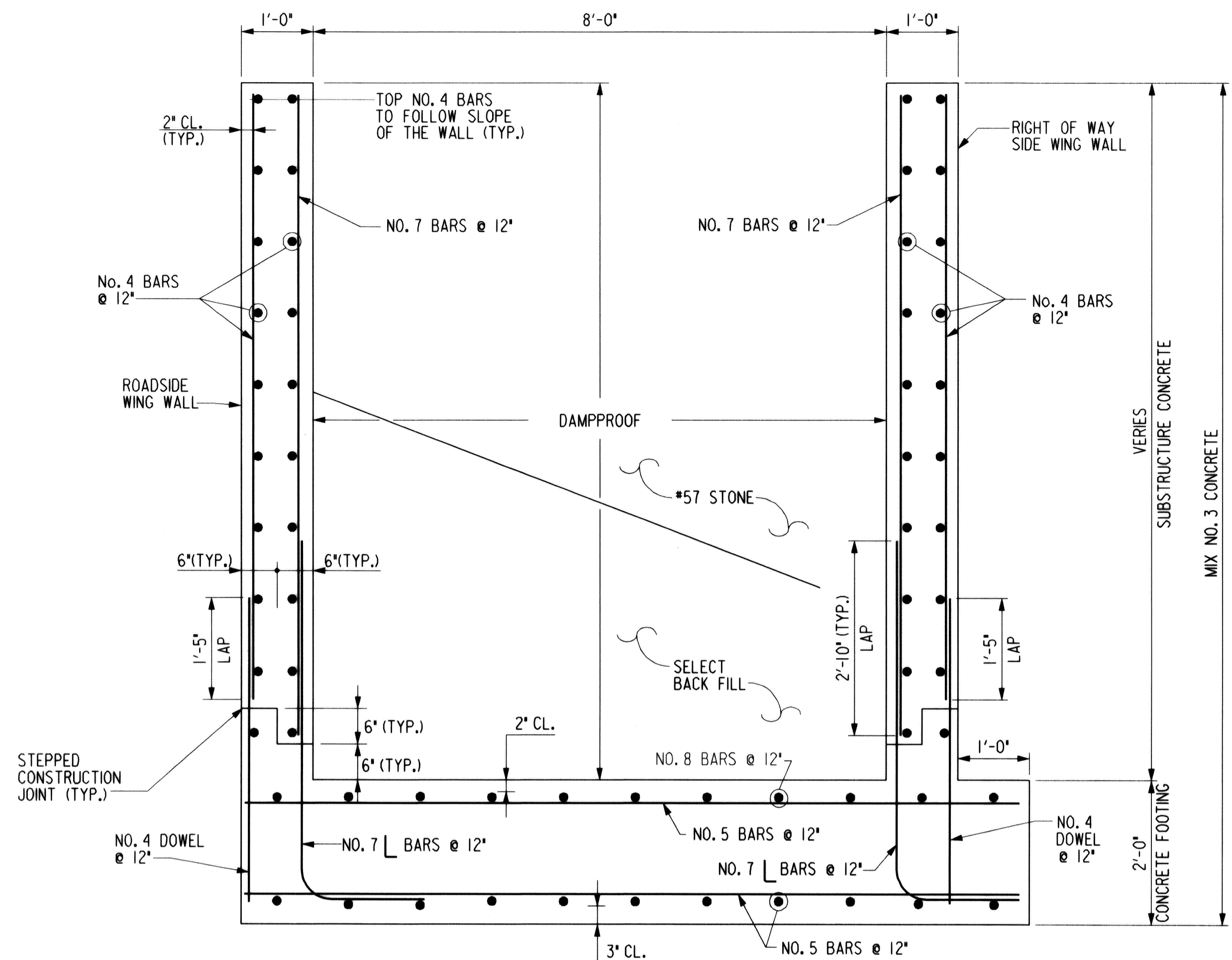
SHEET

6 OF 7

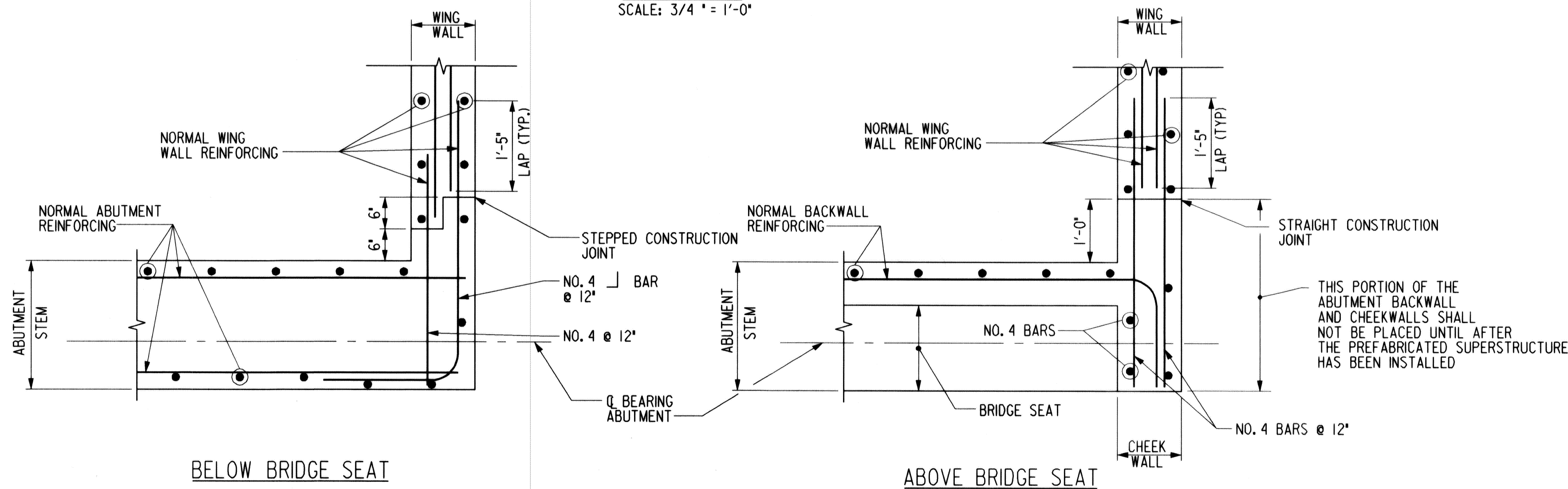
* DIMENSIONS MAY BE MODIFIED DUE TO SUPERSTRUCTURE BEARING DETAILS



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



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



ABUTMENT CORNER DETAILS
SCALE: 3/4" = 1'-0"

NOTES:

1. AT THE CONTRACTOR'S OPTION, THE DOWEL AND STEM BARS MAY BE PLACED AS A CONTINUOUS BAR, NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS OPTION.
2. (E) DENOTES EPOXY COATED REINFORCING.
3. REINFORCING SHALL BE PLACED TO MISS ANY ANCHOR BOLTS EMBEDDED IN THE CONCRETE ABUTMENTS.
4. ONLY REINFORCING LAPS SHOWN ARE PERMITTED.

R:\2005\12 Invered Co. MS. Eng. Services\422626\0160\Struct\Substructure details.dwg

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

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

12/27/07
CHIEF, BUREAU OF ENGINEERING
1-17-07
CHIEF, BUREAU OF HIGHWAYS



SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 100
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
DETAILS

NO.: _____ DATE: 12/07

GUILFORD ROAD PEDESTRIAN
SIDEWALK AND BRIDGE

HOWARD COUNTY, MARYLAND
CAPITAL PROJECT NO. K-5040

DWG. No. S-4

SCALE:
SHEET
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