

APPENDIX A

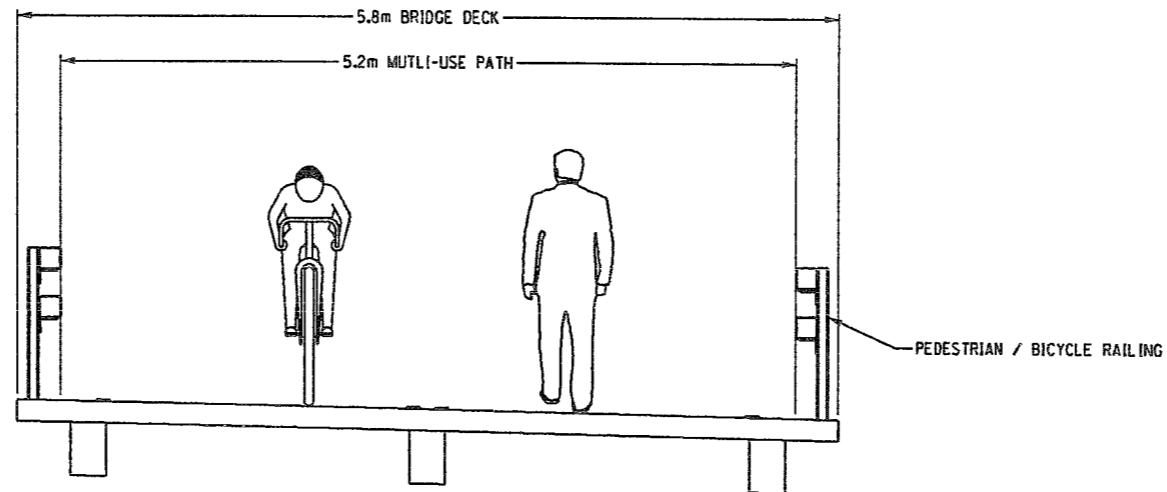
Typical Sections /

Conceptual Plans /

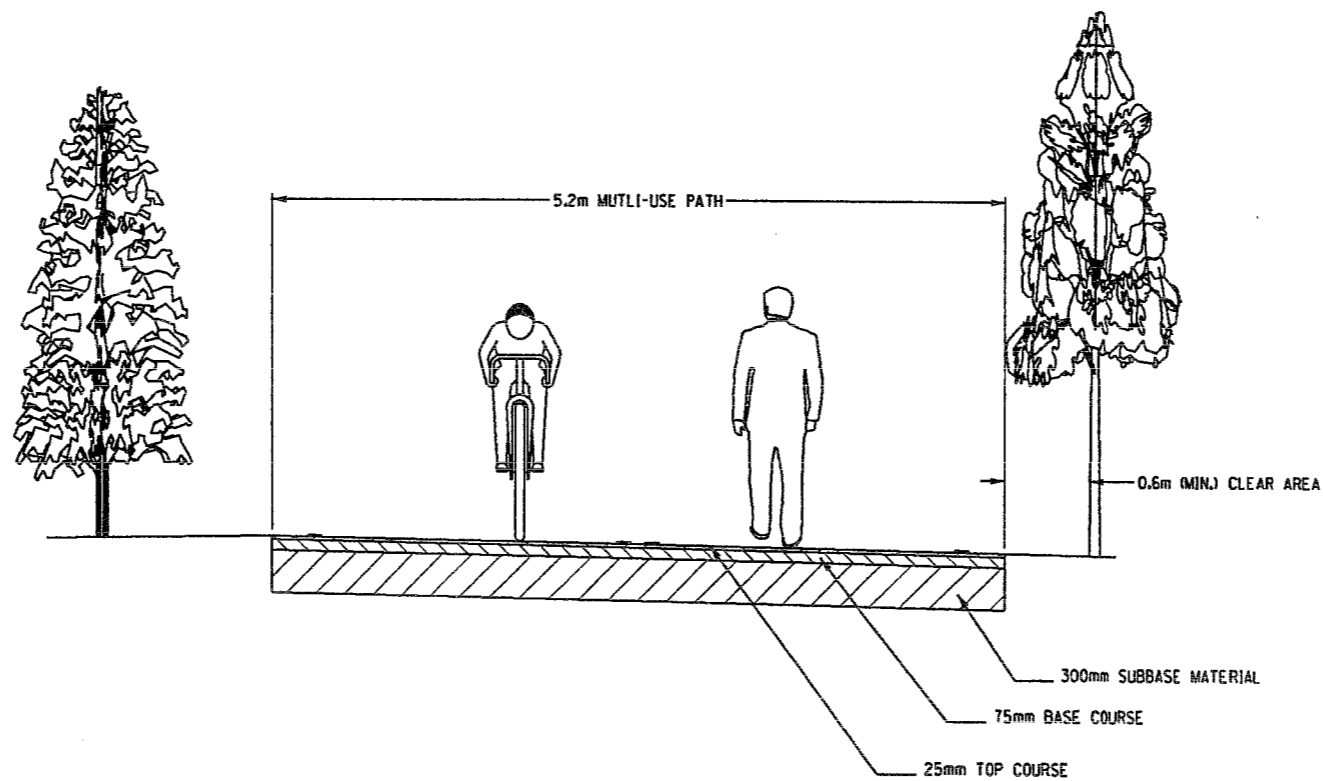
Bridge Plans /

Non-Standard Feature Forms

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
BRONX RIVER GREENWAY				
SEGMENT FROM WESTCHETER AVENUE TO TREMONT AVENUE				
BRONX COUNTY				
P.I.N. x02705			B.I.N.	



TYPICAL SECTION AT BRIDGE
NTS



TYPICAL SECTION
NTS

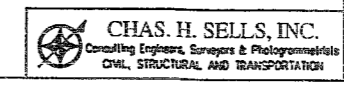
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE _____ DATE _____

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

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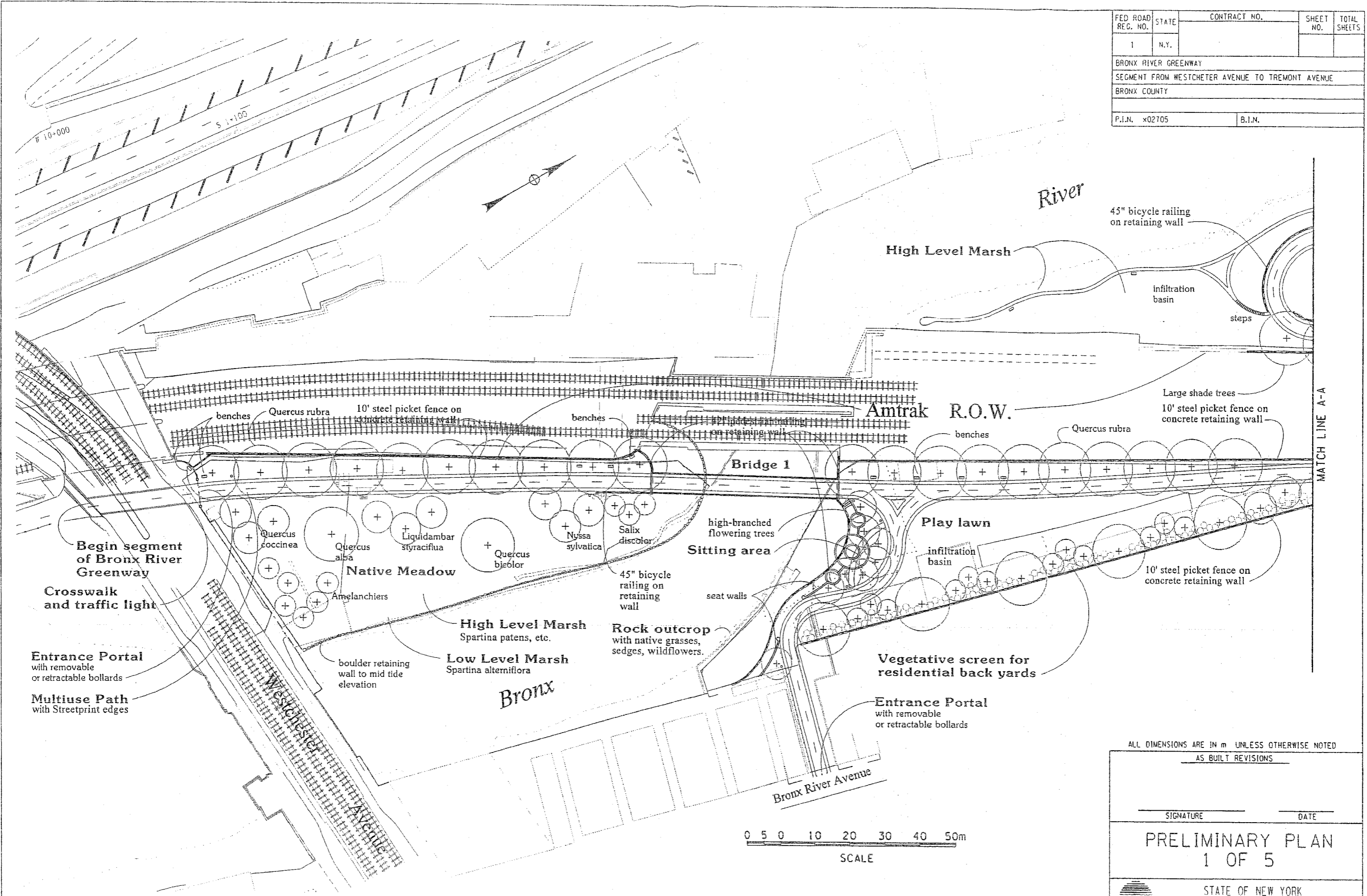


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DESIGN SUPERVISOR _____ JOB MANAGER _____ DESIGNED BY _____ CHECKED BY _____ ESTIMATED BY _____ DRAFTED BY _____ CHECKED BY _____

DESIGN SUPERVISOR
 DESIGNED BY
 CHECKED BY
 ESTIMATED BY
 DRAFTED BY
 CHECKED BY

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
BRONX RIVER GREENWAY				
SEGMENT FROM WESTCHETER AVENUE TO TREMONT AVENUE				
BRONX COUNTY				
P.I.N. x02705		B.I.N.		



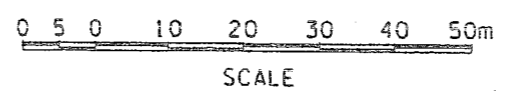
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE _____ DATE _____

PRELIMINARY PLAN
1 OF 5

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

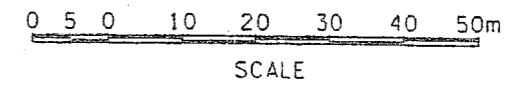
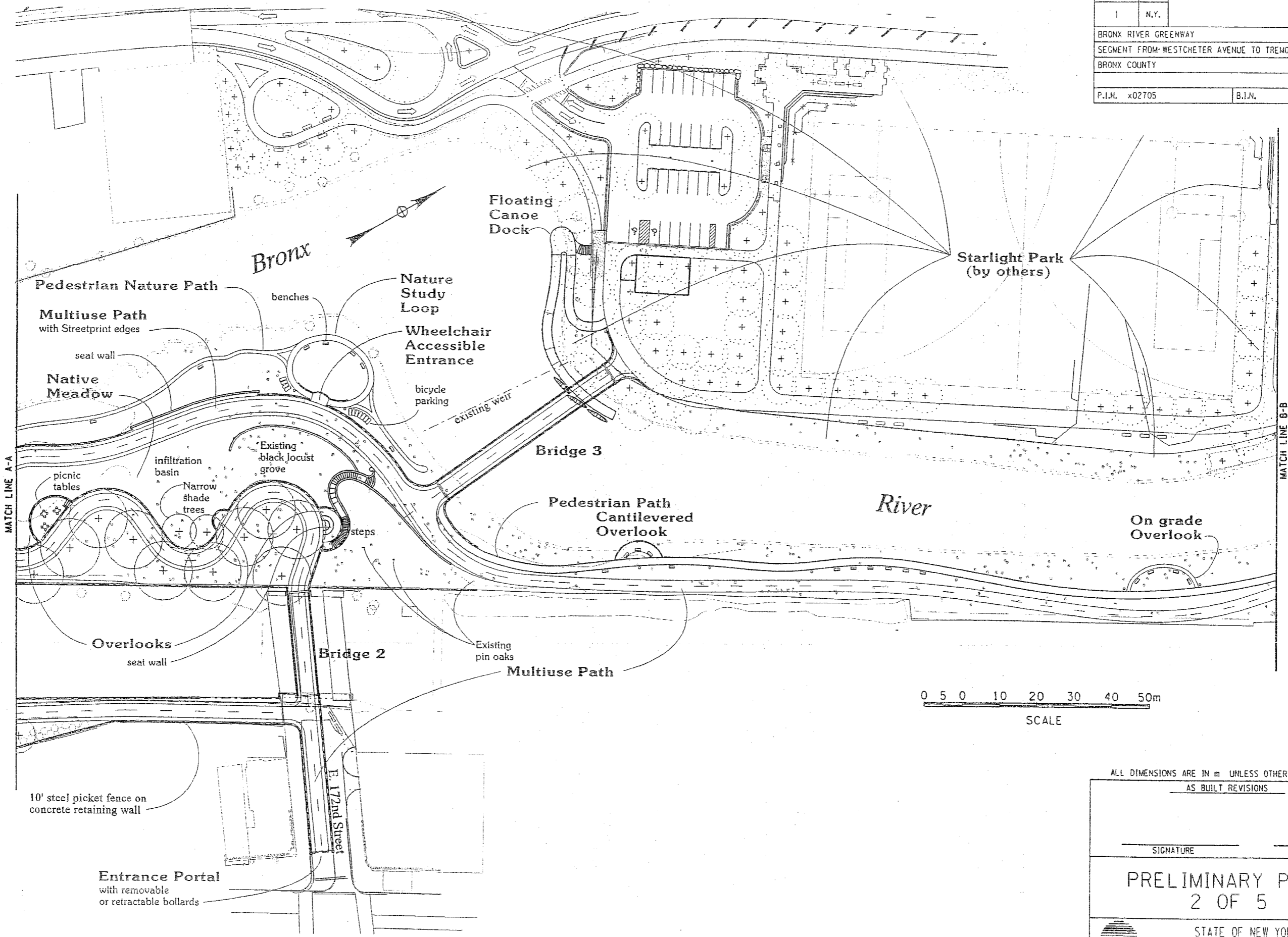
FILENAME plansheet1.dgn	REGION 11	DATE FEBRUARY 2005	DRAWING NO. P1
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MATCH LINE A-A

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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
BRONX RIVER GREENWAY				
SEGMENT FROM WESTCHETER AVENUE TO TREMONT AVENUE				
BRONX COUNTY				
P.I.N. x02705			B.I.N.	



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE

DATE

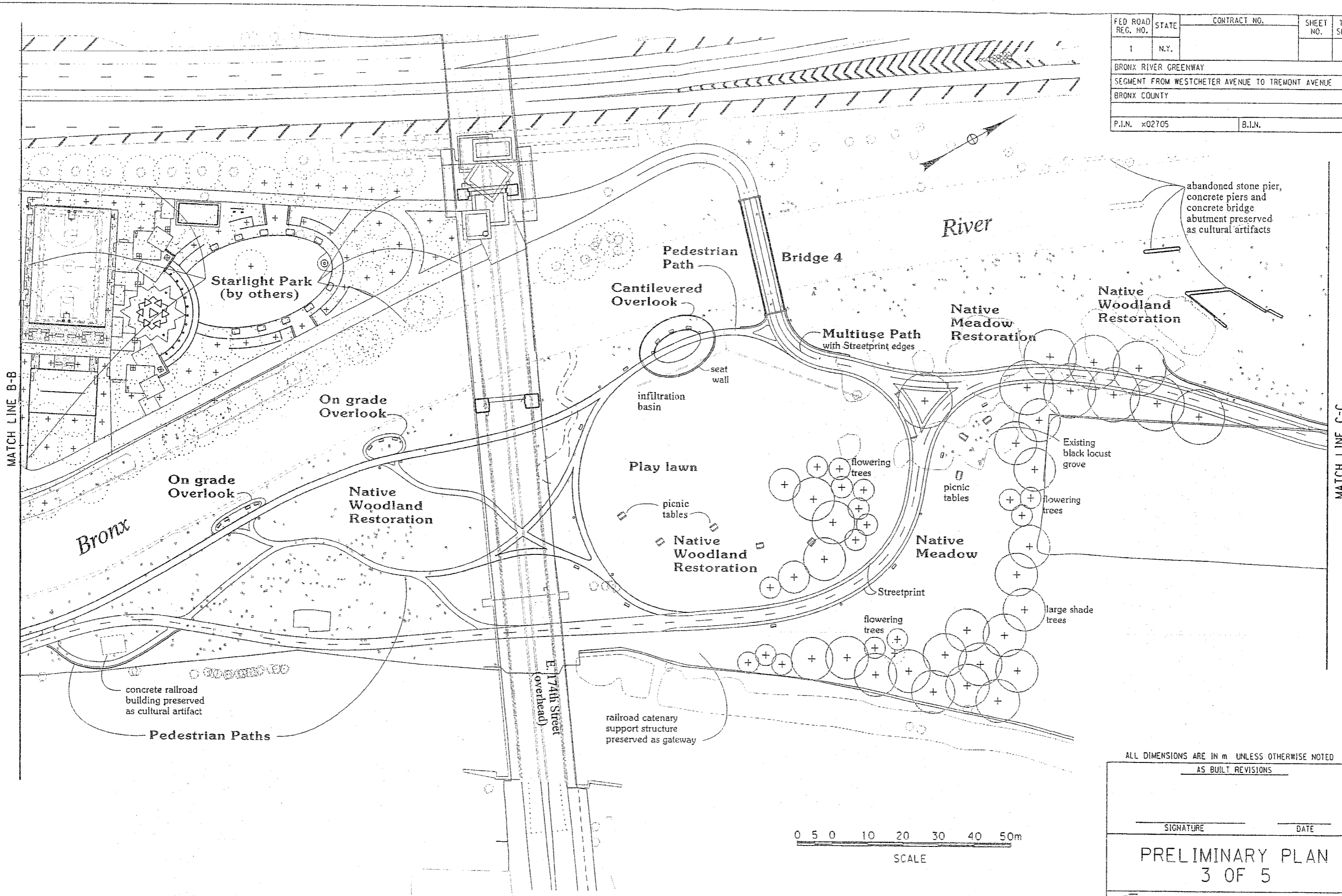
PRELIMINARY PLAN
2 OF 5

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

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DESIGN SUPERVISOR
 DESIGNED BY
 CHECKED BY
 ESTIMATED BY
 DRAFTED BY
 CHECKED BY

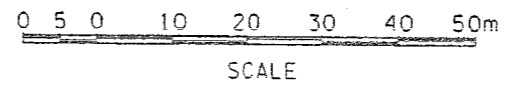
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1	N.Y.			
BRONX RIVER GREENWAY				
SEGMENT FROM WESTCHETER AVENUE TO TREMONT AVENUE				
BRONX COUNTY				
P.I.N. x02705			B.I.N.	



abandoned stone pier, concrete piers and concrete bridge abutment preserved as cultural artifacts

concrete railroad building preserved as cultural artifact

railroad catenary support structure preserved as gateway



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED AS BUILT REVISIONS

SIGNATURE _____ DATE _____

PRELIMINARY PLAN
3 OF 5

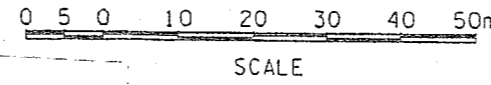
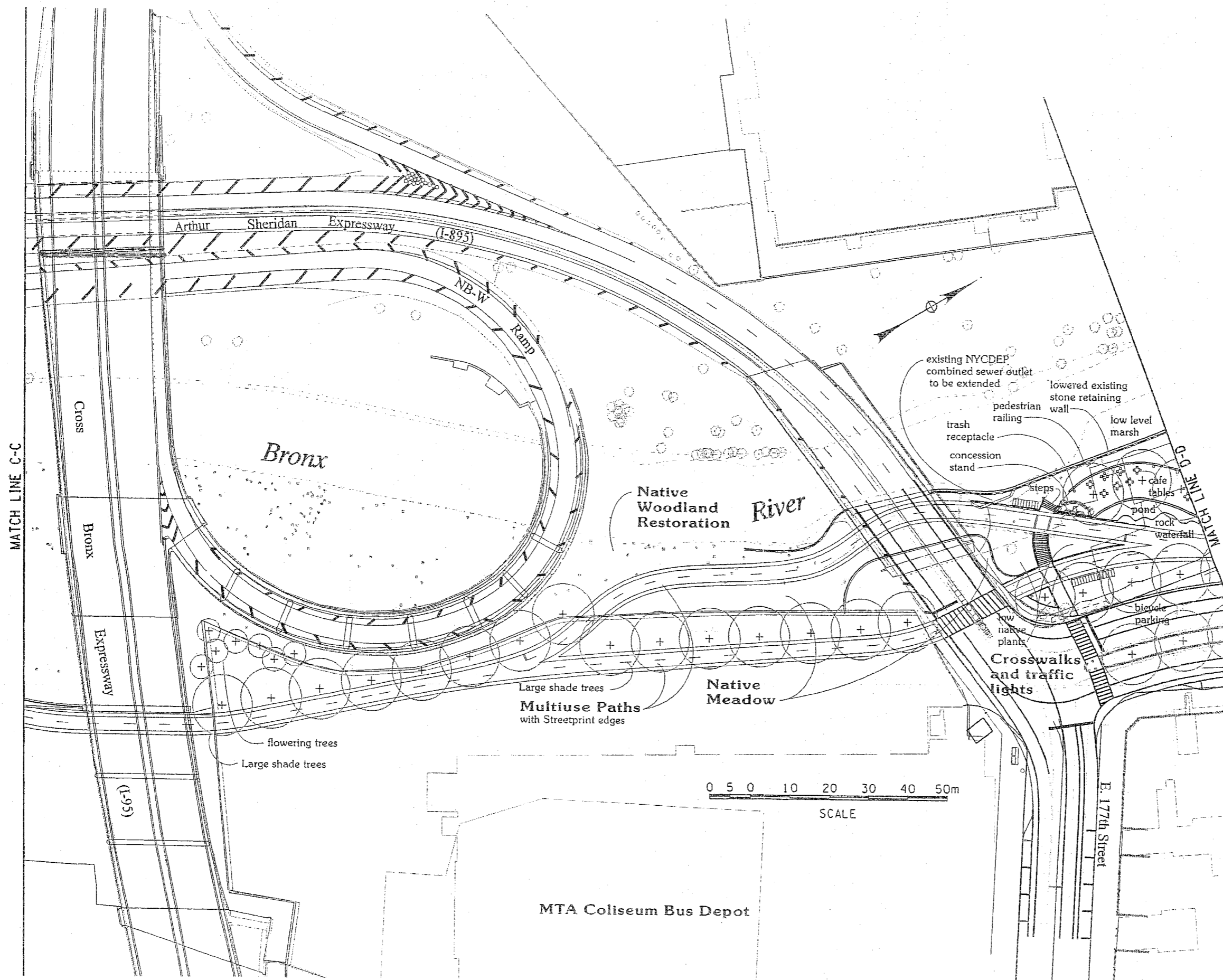
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

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 JOB MANAGER
 DESIGNED BY
 CHECKED BY
 ESTIMATED BY
 DRAFTED BY
 CHECKED BY

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

BRONX RIVER GREENWAY
 SEGMENT FROM WESTCHETER AVENUE TO TREMONT AVENUE
 BRONX COUNTY
 P.I.N. x02705 B.I.N.



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE _____ DATE _____

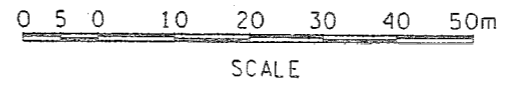
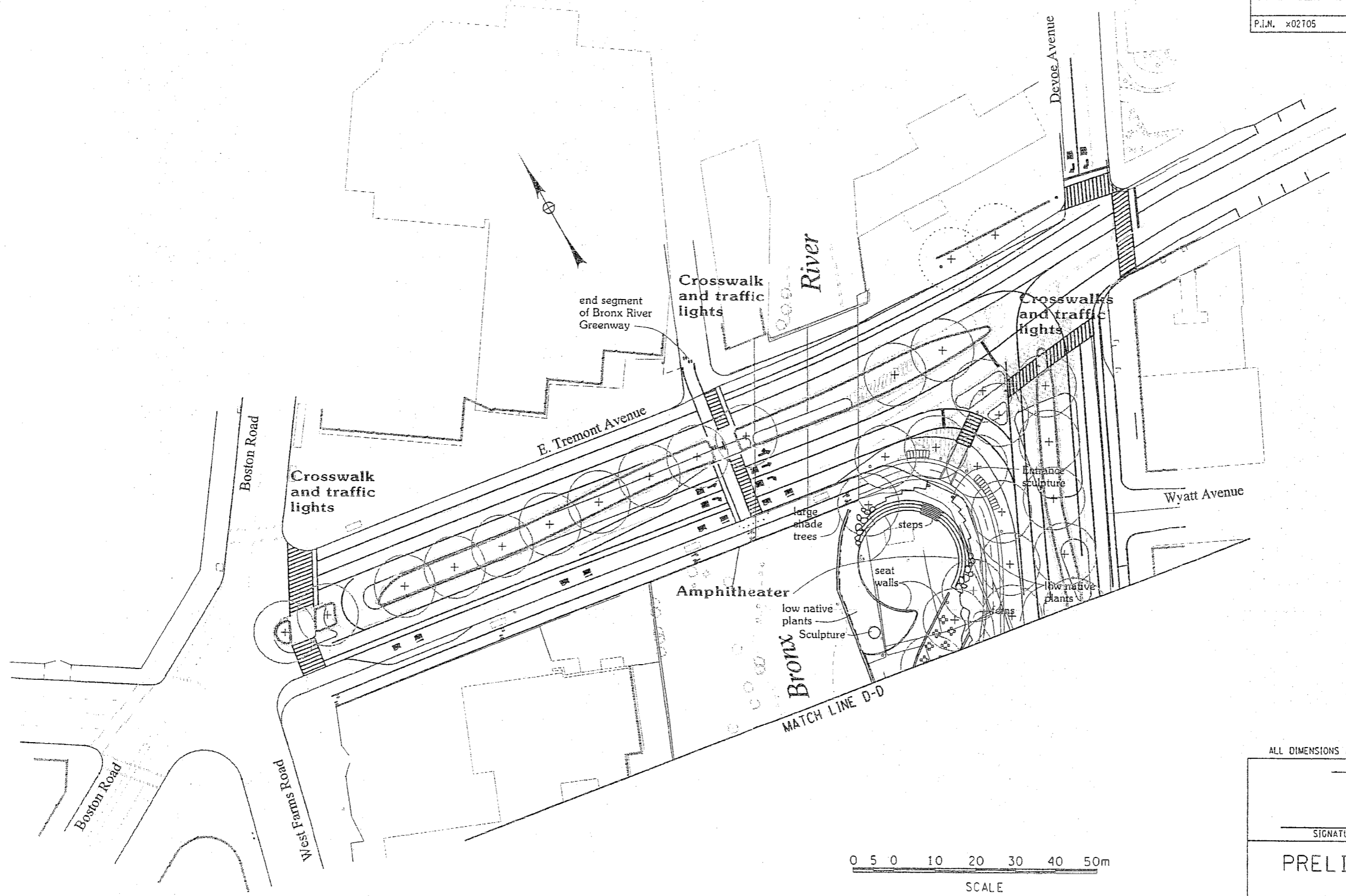
PRELIMINARY PLAN
4 OF 5

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

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DESIGN SUPERVISOR _____ JOB MANAGER _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
BRONX RIVER GREENWAY				
SEGMENT FROM WESTCHETER AVENUE TO TREMONT AVENUE				
BRONX COUNTY				
P.I.N. x02705			B.I.N.	



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

SIGNATURE

DATE

PRELIMINARY PLAN
5 OF 5

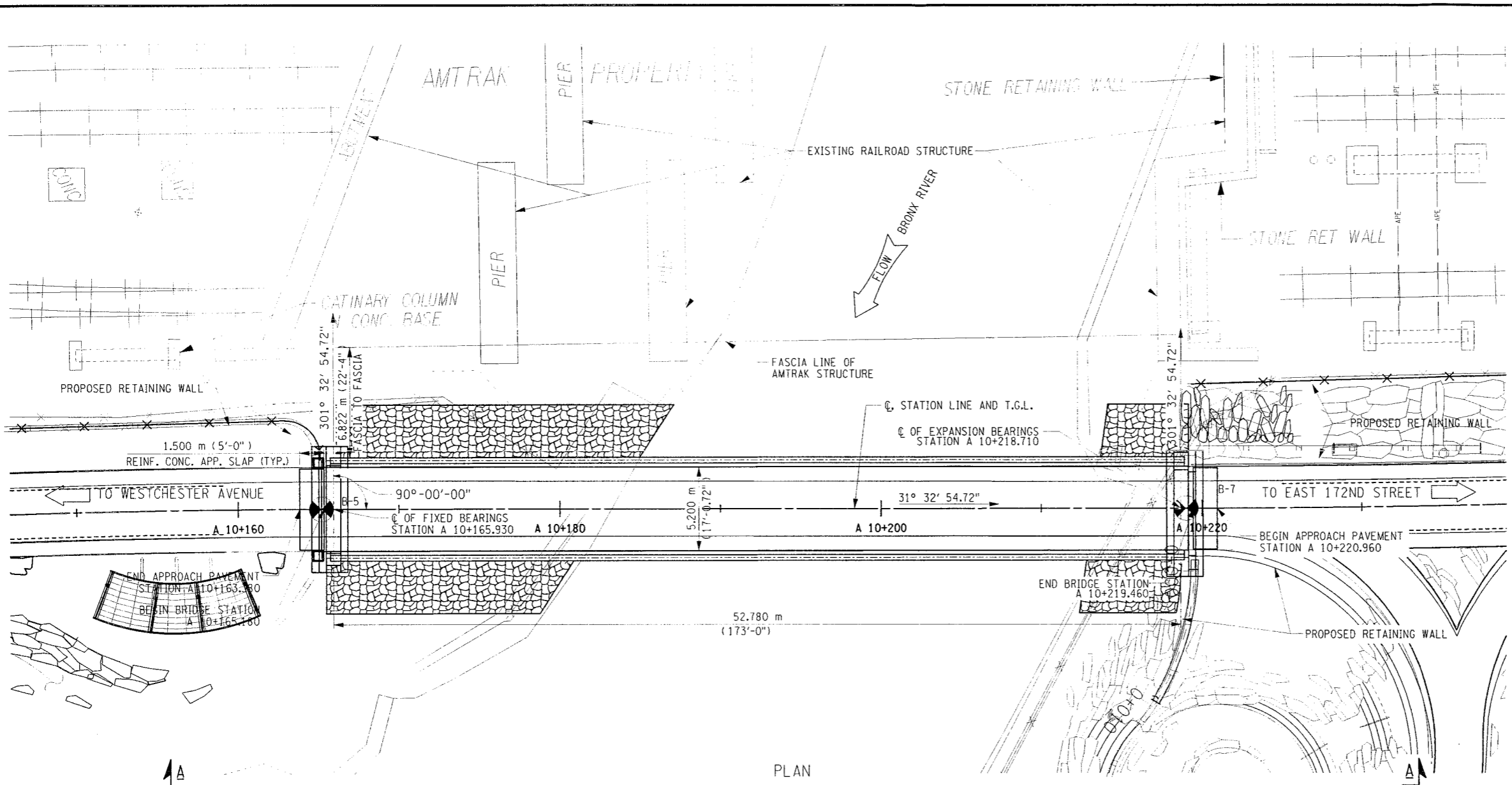
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

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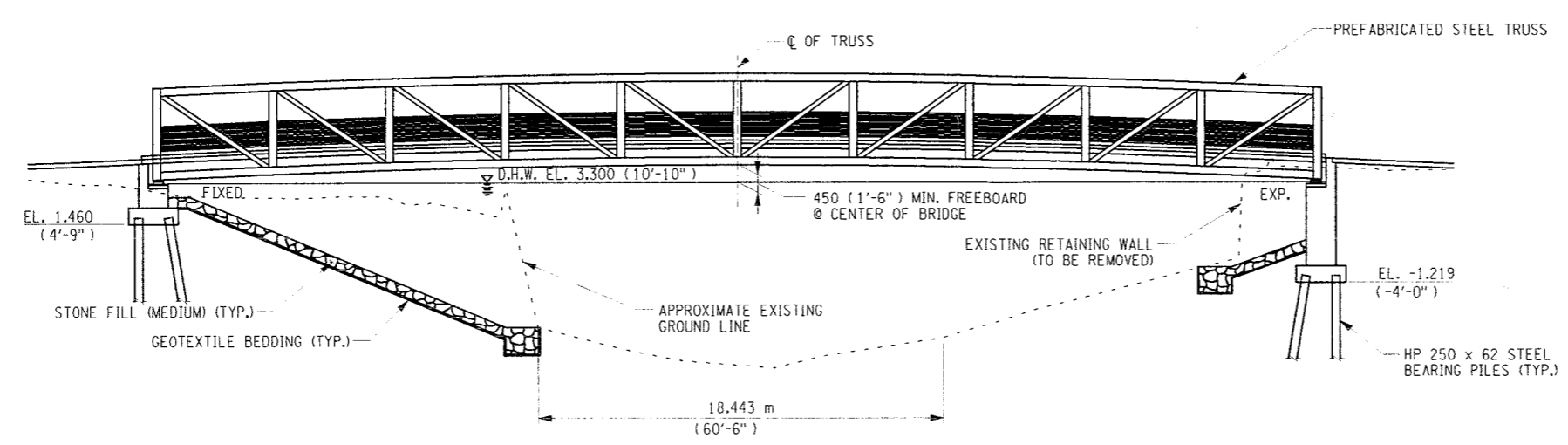
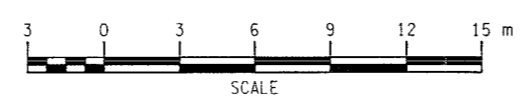
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DESIGNED BY: W. ALBERT
 JES. MANAGER: S. HYDERY
 CHECKED BY: J. WHEELER
 ESTIMATED BY: J. WHEELER
 DRAFTED BY: J. WHEELER
 CHECKED BY: J. WHEELER



PLAN

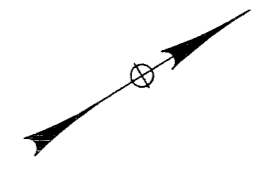


ELEVATION A-A

BRONX BURROUGH DATUM EL. -10.000 m (32'-10")

NOTE:
 THE BASIC FLOOD WATER POINT OF MAXIMUM BACKSEATER ELEVATION WAS USED INSTEAD OF THE DESIGN FLOOD WATER ELEVATION TO DETERMINE MINIMUM FREEBOARD AS REQUESTED BY REGION 11.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	B.I.N. 2-26990-0		
P.I.N. X027.05		BRONX COUNTY		
BRONX RIVER GREENWAY				
WESTCHESTER AVENUE TO EAST TREMONT AVENUE				



HYDRAULIC DATA			
DRAINAGE AREA	100.0 km ²	BASIC FLOOD	DESIGN FLOOD
RECURRENCE INTERVAL (YEARS)	100	100	50
PEAK DISCHARGE (m ³ /S)	116.0	116.0	98.7
HIGH WATER ELEVATION AT POINT OF MAX. BACKWATER	EXISTING 3.300	PROPOSED 3.300	2.920
AVG. VELOCITY THRU STRUCT. @ DESIGN FLOOD 1.9 m/SEC.			

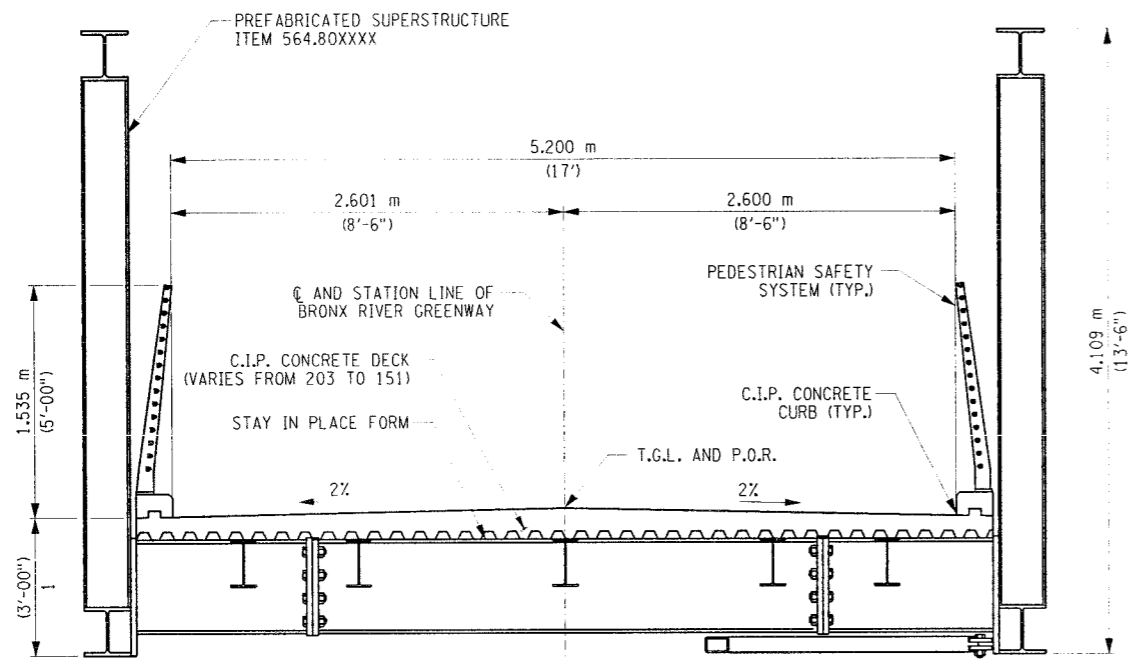
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 HIGH VOLTAGE ELECTRICAL LINES ARE IN PROXIMITY TO THIS BRIDGE. REFER TO THE ELECTRICAL SAFETY NOTE CONTAINED IN THE CONTRACT PROPOSAL FOR SPECIAL CONTRACTOR SAFETY REQUIREMENTS.

ALL ELEVATIONS ARE IN m UNLESS OTHERWISE NOTED.
 ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

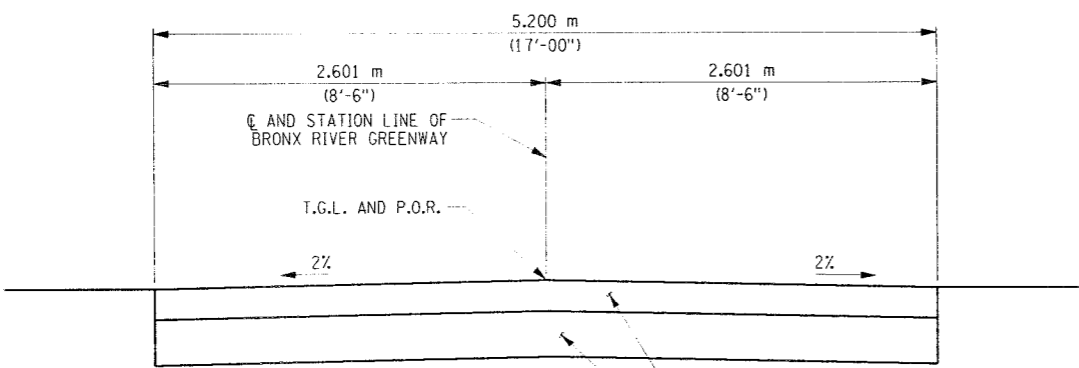
AS BUILT REVISIONS

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OVER		
THE BRONX RIVER		
GENERAL		
PLAN AND ELEVATION		
STATE OF NEW YORK		
DEPARTMENT OF TRANSPORTATION		
REGION 11		
DOCUMENT NAME	DATE	DRAWING NO.
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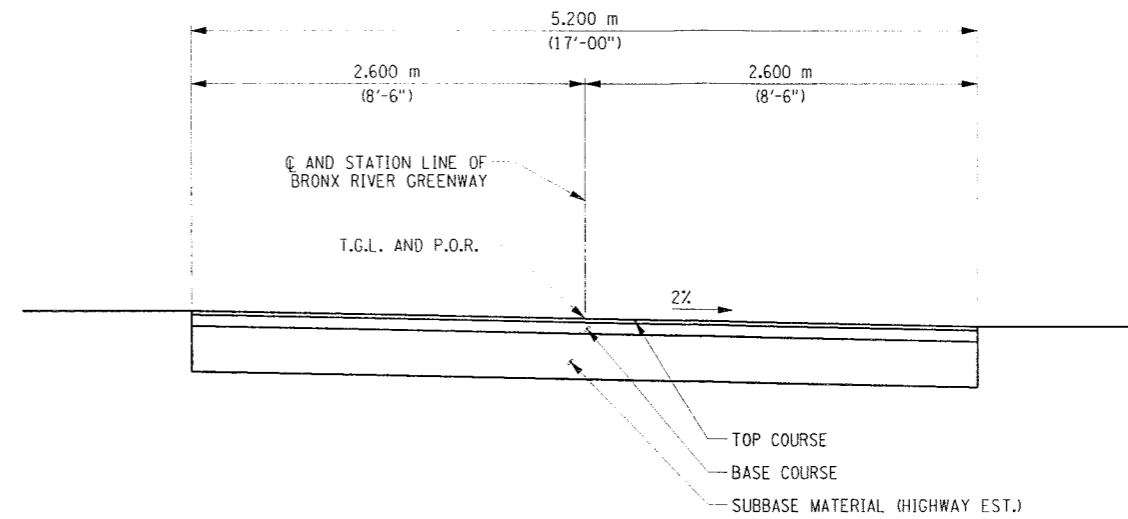
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P.I.N. X027.05		B.I.N. 2-269900		
BRONX COUNTY				
BRONX RIVER GREENWAY				
WESTCHESTER AVENUE TO EAST TREMONT AVENUE				



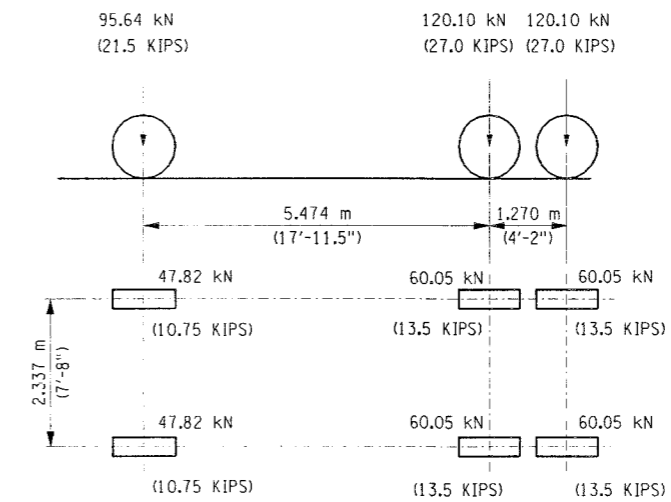
TYPICAL BRIDGE SECTION



TYPICAL APPROACH SECTION



TYPICAL GREENWAY SECTION



NYC FIRE TRUCK LOADING

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS		
SIGNATURE	DATE	
BRONX RIVER GREENWAY (BRIDGE #1)		
OVER		
BRONX RIVER		
TYPICAL SECTIONS		
STATE OF NEW YORK		
DEPARTMENT OF TRANSPORTATION		
REGION 11		
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CHECKED BY: J. WHEELER
ESTIMATED BY: J. WHEELER
JOB MANAGER: S. HYDERY
W. ALBERT

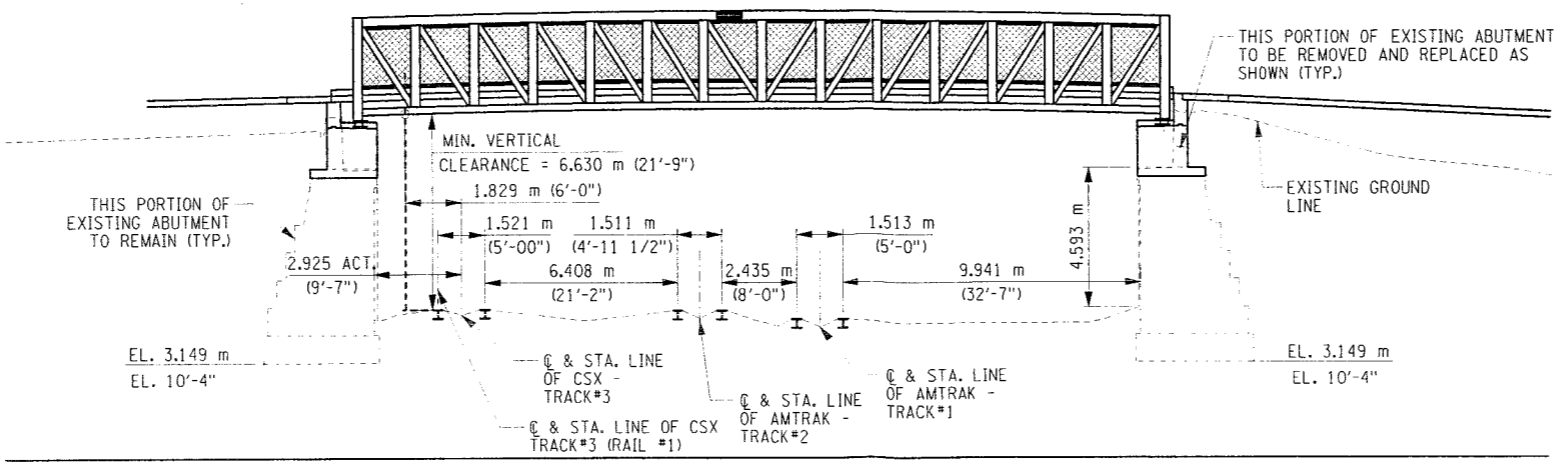
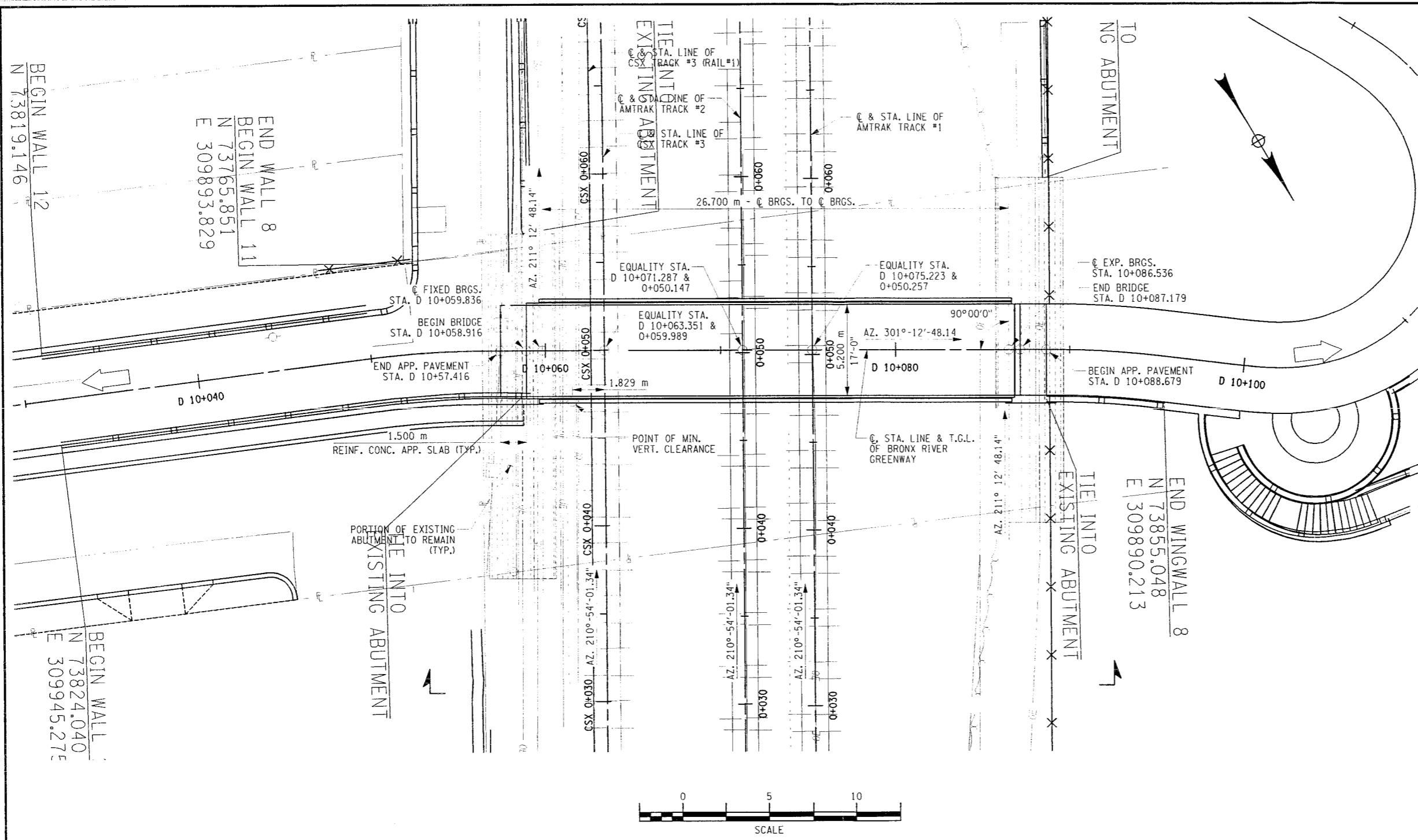
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DESIGNED BY: M. EVANCHUK
 CHECKED BY: M. EVANCHUK
 DRAFTED BY: M. EVANCHUK
 ESTIMATED BY: M. EVANCHUK
 JOB MANAGER: SHAMIM HYDERY
 SUPERVISOR: WAHID ALBERT

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
P.I.N. X027.05		B.I.N. 2241240		
BRONX COUNTY				
BRONX RIVER GREENWAY				
WESTCHESTER AVENUE TO EAST TREMONT AVENUE				

ELECTRICAL SAFETY NOTE:
 HIGH VOLTAGE ELECTRICAL LINES ARE IN PROXIMITY TO THIS BRIDGE. REFER TO ELECTRICAL SAFETY NOTE CONTAINED IN THE CONTRACT PROPOSAL FOR SPECIAL CONTRACTOR SAFETY REQUIREMENTS.

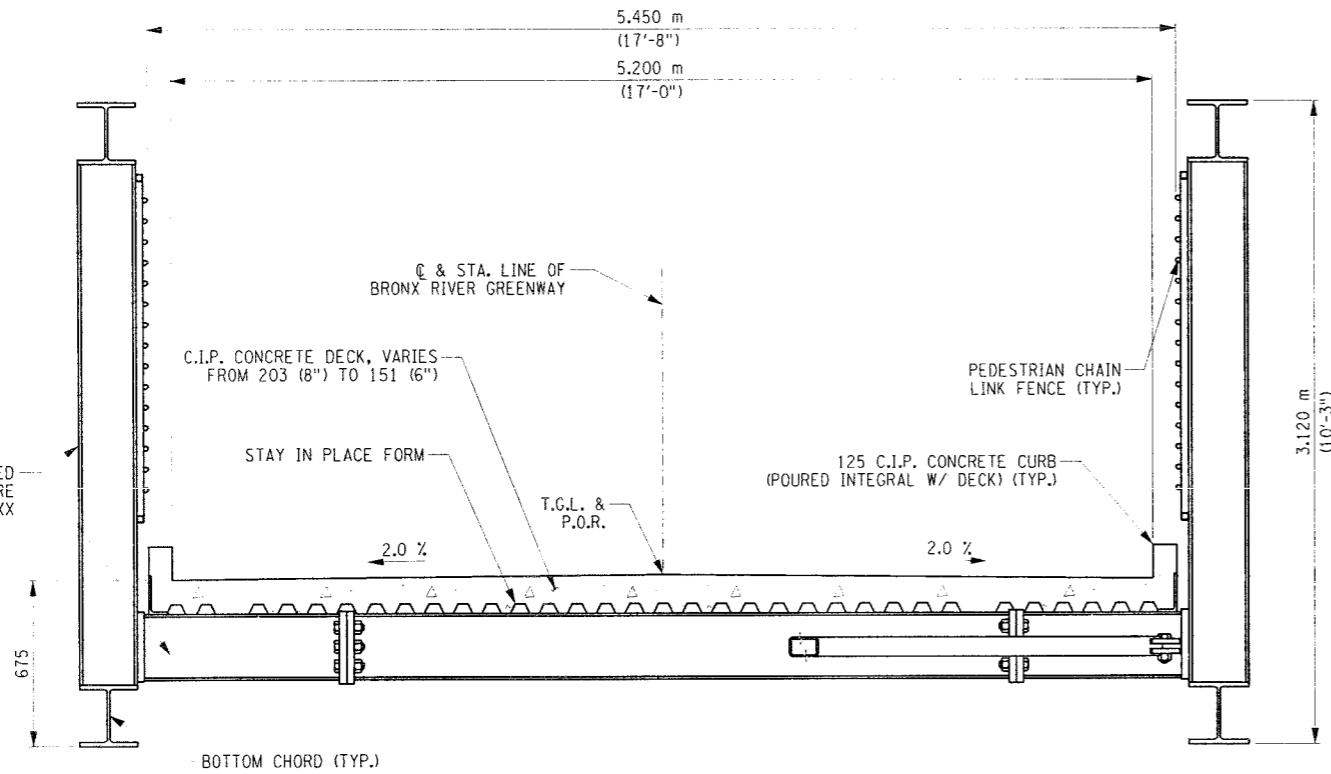


ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

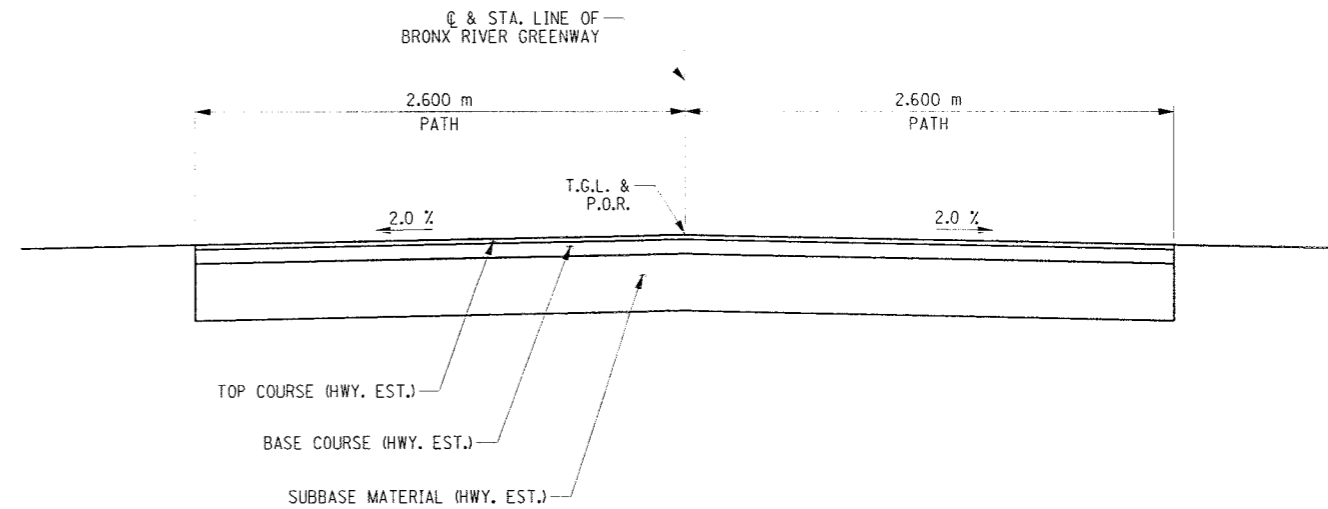
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SIGNATURE	DATE
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GENERAL PLAN AND ELEVATION	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION REGION 11	
DOCUMENT NAME X02705CB_G1A.DGN	DATE OCT. '06
DRAWING NO. ST2-1	

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
P.I.N. X027.05		B.I.N. 2241240		
BRONX COUNTY				
BRONX RIVER GREENWAY				
WESTCHESTER AVENUE TO EAST TREMONT AVENUE				

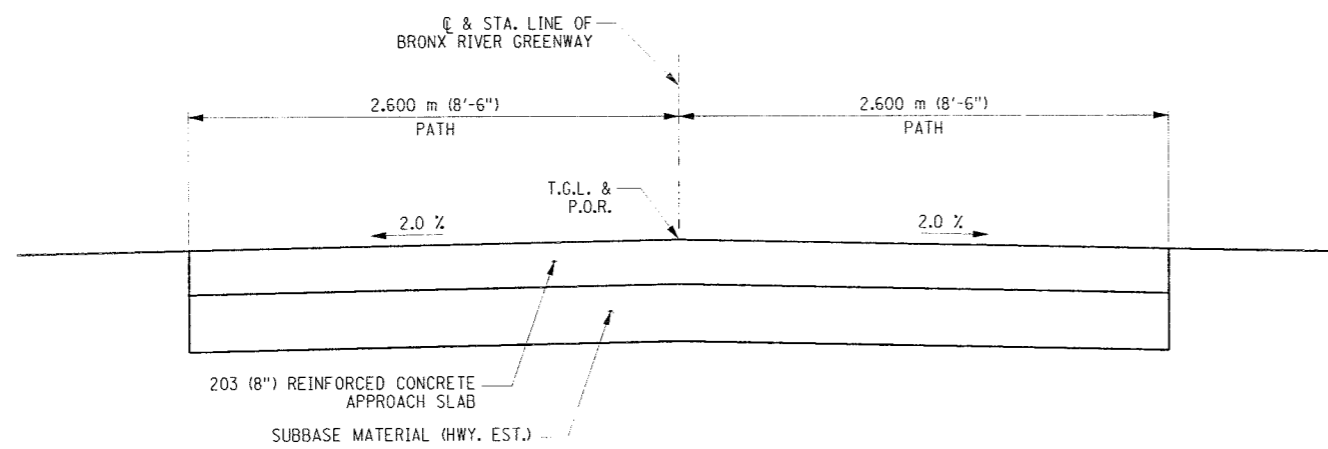
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 JOB MANAGER SHAMIM HYDERY
 DESIGNED BY M. EVANCHUK
 CHECKED BY M. EVANCHUK
 DRAFTED BY M. EVANCHUK
 ESTIMATED BY



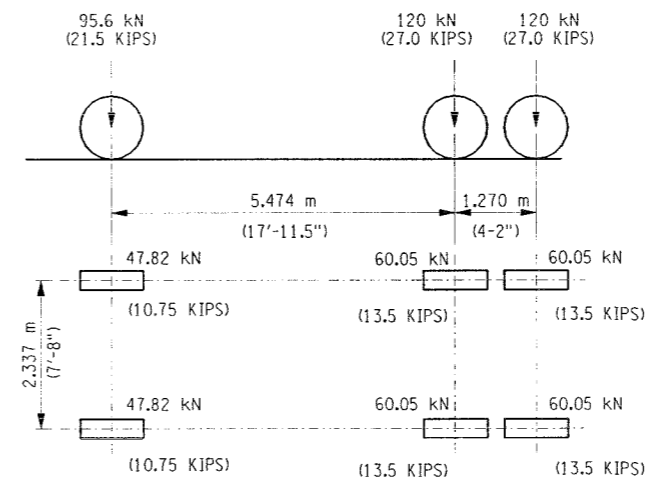
TYPICAL BRIDGE SECTION



TYPICAL GREENWAY SECTION



TYPICAL APPROACH SECTION



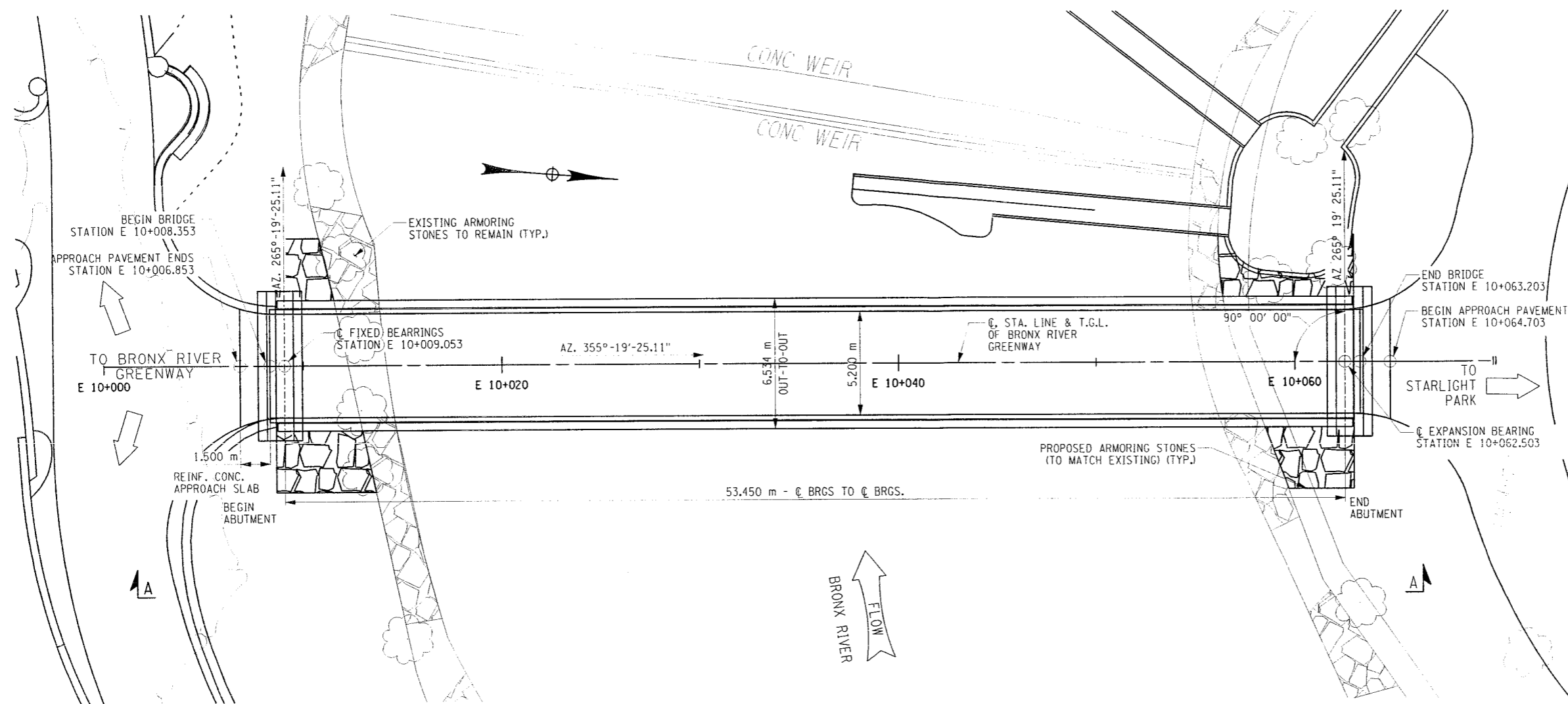
NYC FIRE TRUCK LOADING

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

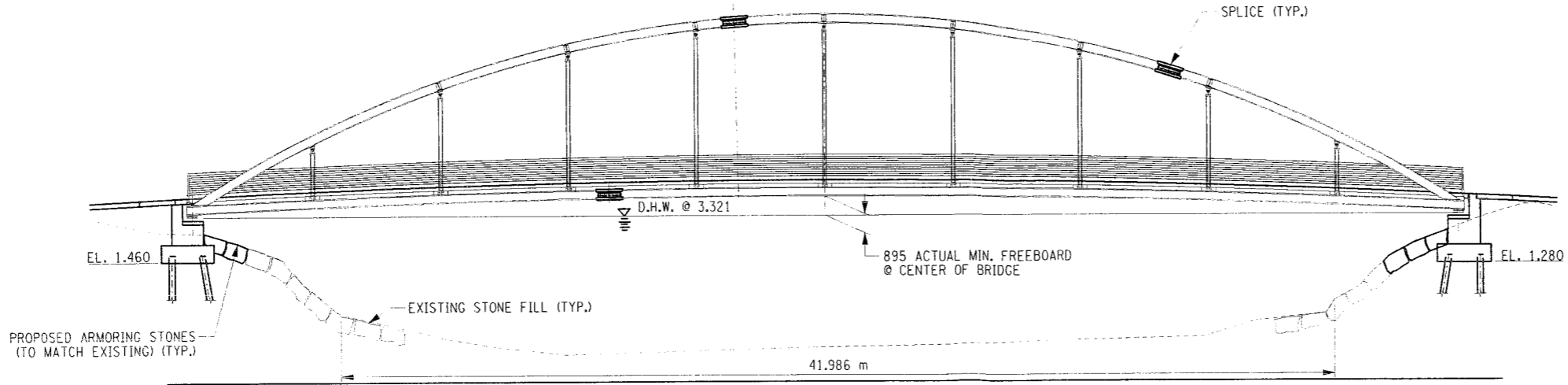
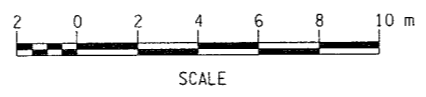
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SIGNATURE	DATE	
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TYPICAL SECTIONS		
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION REGION 11		
DOCUMENT NAME X02705CB_G1B.DGN	DATE OCT. '06	DRAWING NO. ST2-2

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
P.I.N. X027.05		B.I.N. 2-26947-0		
BRONX COUNTY				
BRONX RIVER GREENWAY				
WESTCHESTER AVENUE TO EAST TREMONT AVENUE				

DESIGNED BY: W. ALBERT
 JOB MANAGER: S. HYDERY
 CHECKED BY: M. EVANCHUK
 DRAFTED BY: M. EVANCHUK
 ESTIMATED BY: M. EVANCHUK
 CHECKED BY: M. EVANCHUK



PLAN



ELEVATION A-A

NOTE:
 THE BASIC FLOOD WATER POINT OF MAXIMUM BACKWATER ELEVATION WAS USED INSTEAD OF THE DESIGN FLOOD WATER ELEVATION TO DETERMINE MINIMUM FREEBOARD AS REQUESTED BY REGION 11.

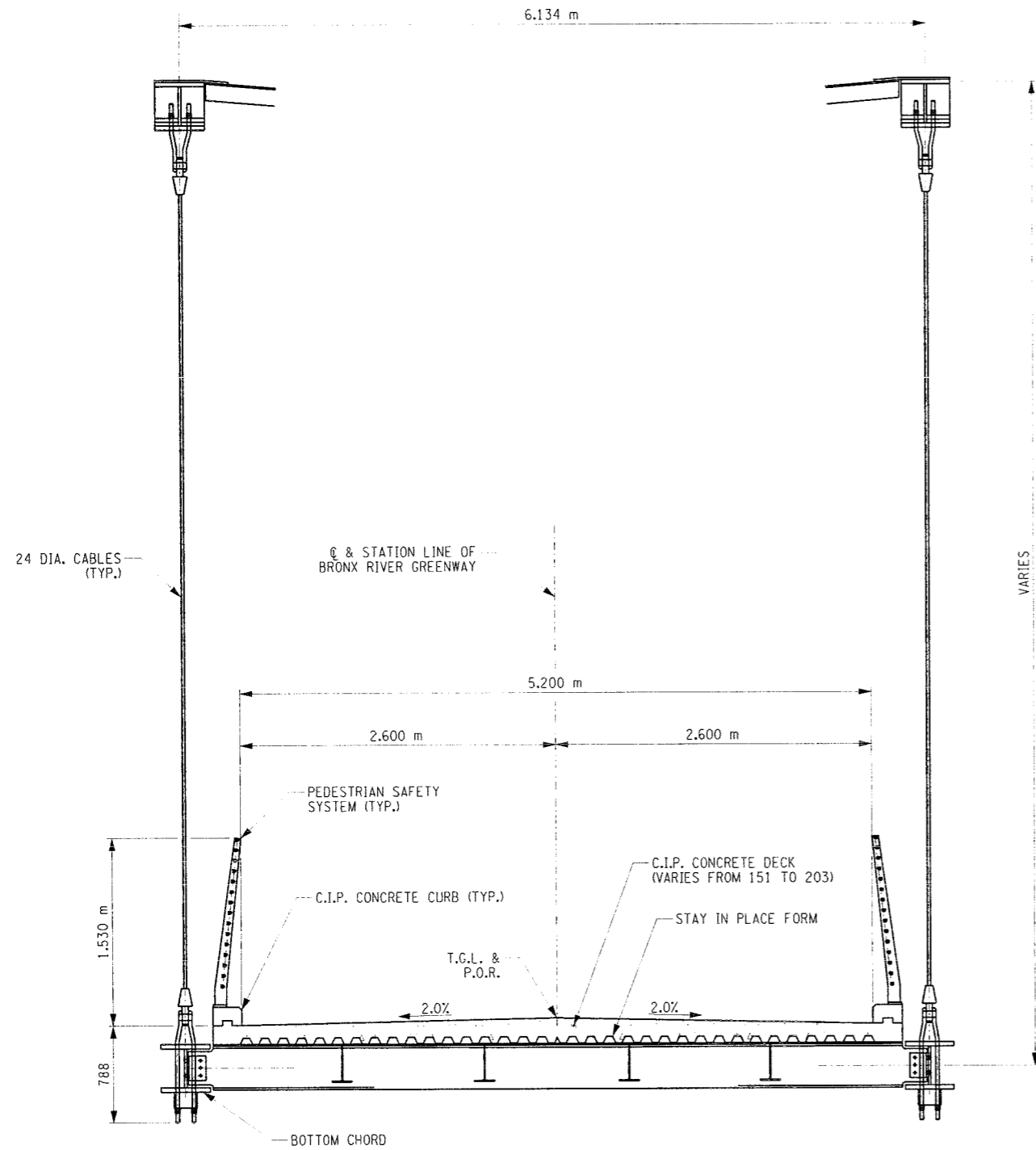
LOAD RATING (LOAD FACTOR)		
INVENTORY	MS	METRIC TONS
OPERATING	MS	METRIC TONS

HYDRAULIC DATA			
DRAINAGE AREA	100.0 km ²	BASIC FLOOD	DESIGN FLOOD
REQUENCY INTERVAL	(YEARS)	100	50
PEAK DISCHARGE	(m ³ /S)	116	98.7
HIGH WATER ELEVATION AT POINT OF MAX. BACKWATER	EXISTING	3.321	2.940
	PROPOSED	3.321	2.940
AVG. VELOCITY THRU STRUCT. @ DESIGN FLOOD 0.6 m/SEC.			

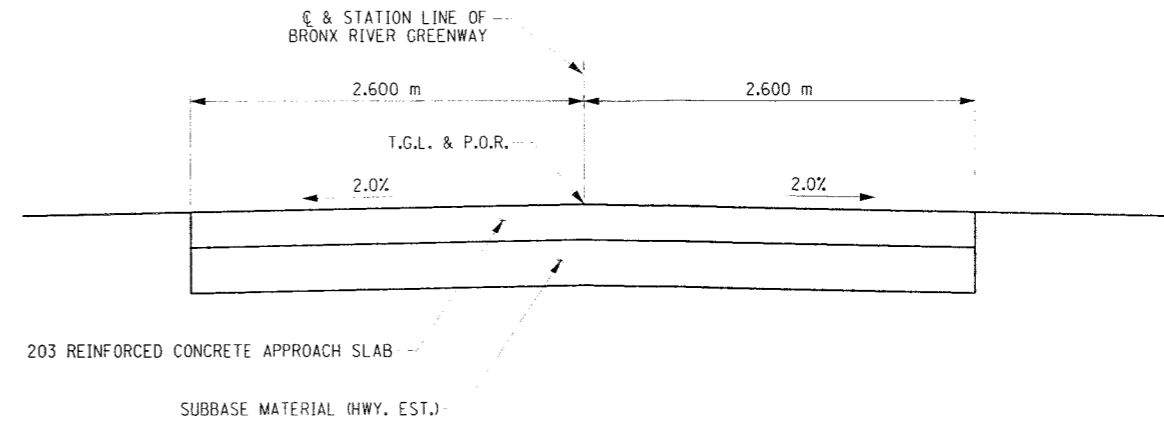
ALL ELEVATIONS ARE IN m UNLESS OTHERWISE NOTED
 ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED
 AS BUILT REVISIONS

SIGNATURE	DATE
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GENERAL PLAN AND ELEVATION	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION REGION 11	
DOCUMENT NAME X02705BB_G1A.DGN	DATE OCT. '06
DRAWING NO. ST3-1	

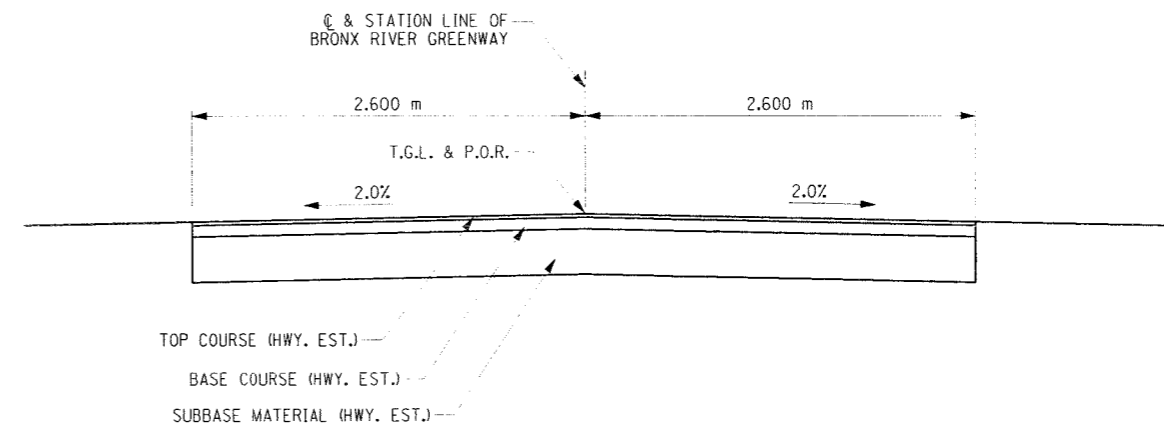
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P.I.N. X027.05		B.I.N. 2-26947-0		
BRONX COUNTY				
BRONX RIVER GREENWAY				
WESTCHESTER AVENUE TO EAST TREMONT AVENUE				



TYPICAL BRIDGE SECTION



TYPICAL APPROACH SECTION



TYPICAL GREENWAY SECTION

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE _____ DATE _____

BRONX RIVER GREENWAY (BRIDGE #3)
OVER
THE BRONX RIVER

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
REGION 11

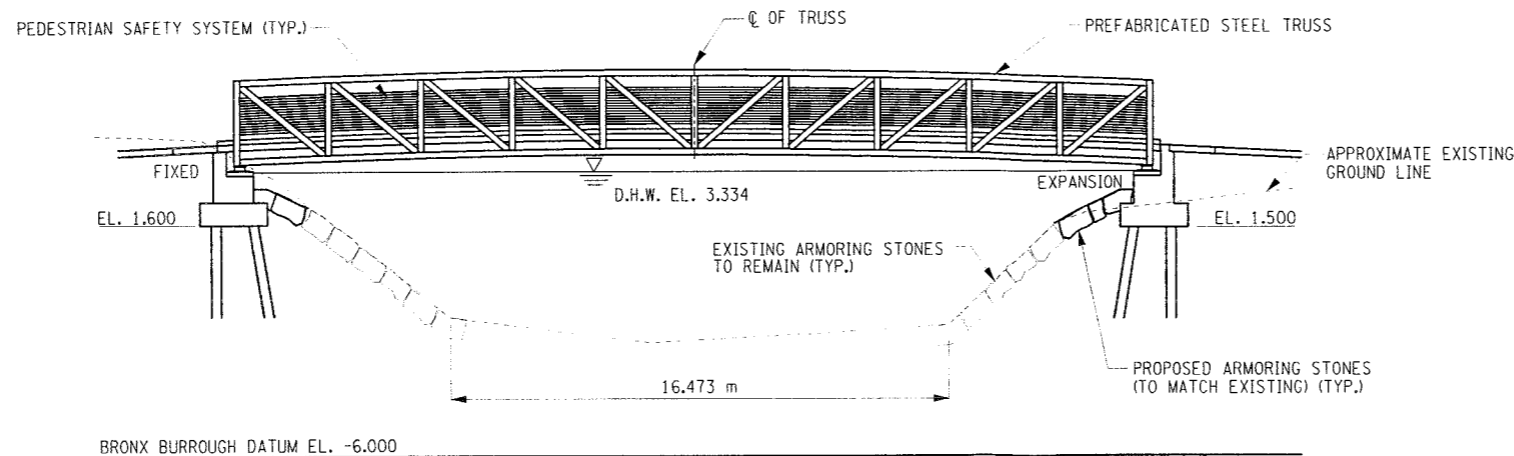
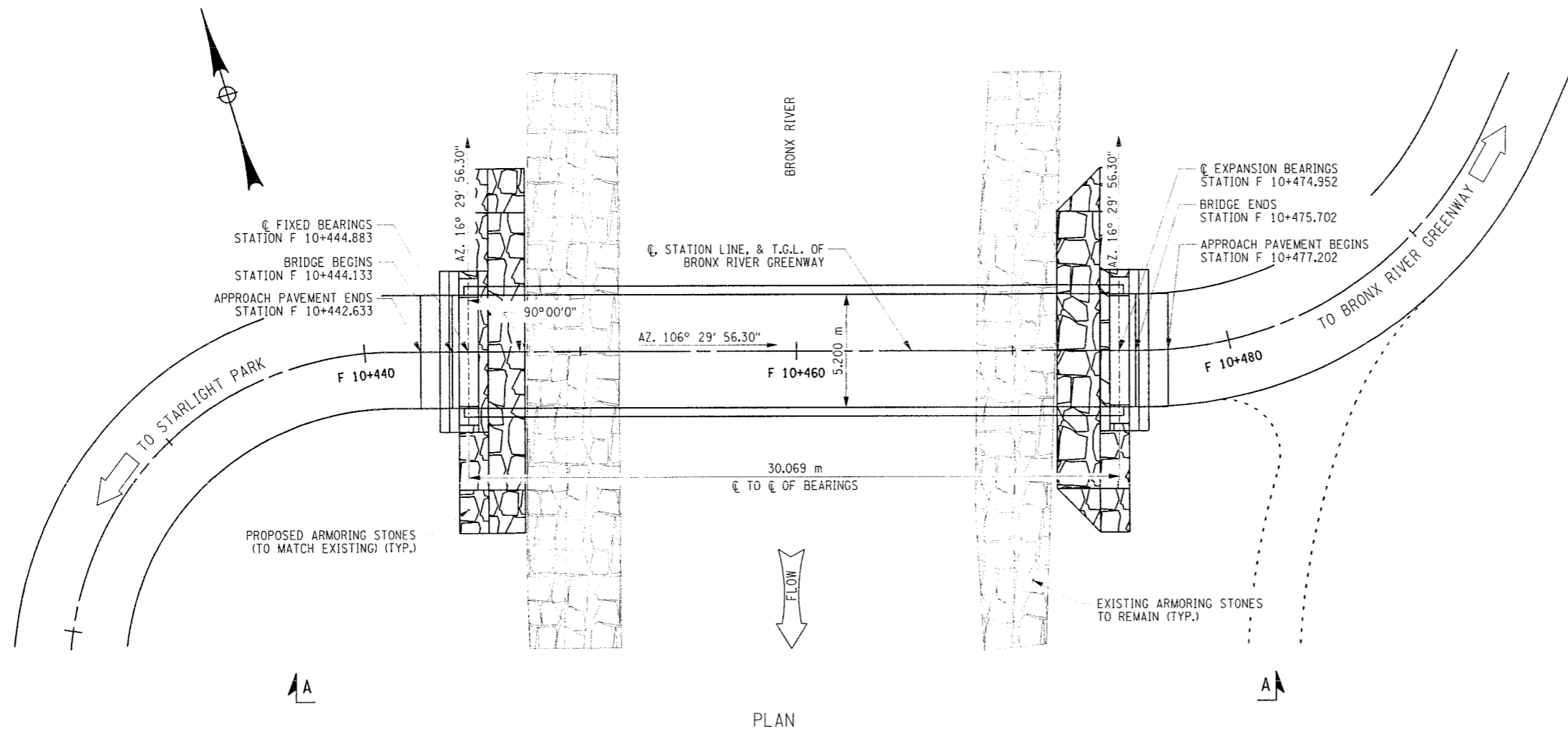
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USER = nshute

DESIGNED BY M. EVANCHUK
CHECKED BY M. EVANCHUK
ESTIMATED BY M. EVANCHUK
APPROVED BY W. ALBERT
JFS MANAGER S. HYDERY

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			
P.I.N. X027.05		B.I.N. 2-26948-0		
BRONX COUNTY				
BRONX RIVER GREENWAY				
WESTCHESTER AVENUE TO EAST TREMONT AVENUE				

HYDRAULIC DATA			
DRAINAGE AREA	100 km ²	BASIC FLOOD	DESIGN FLOOD
RECURRENCE INTERVAL	(YEARS)	100	50
PEAK DISCHARGE	(m ³ /S)	116.0	98.7
HIGH WATER ELEVATION AT	EXISTING	3.340	2.960
POINT OF MAX. BACKWATER	PROPOSED	3.340	2.960
AVG. VELOCITY THRU STRUCT. @ DESIGN FLOOD	1.1 m/SEC.		



NOTE:
THE BASIC FLOOD WATER POINT OF MAXIMUM BACKWATER ELEVATION WAS USED INSTEAD OF THE DESIGN FLOOD WATER ELEVATION TO DETERMINE MINIMUM FREEBOARD AS REQUESTED BY REGION 11.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

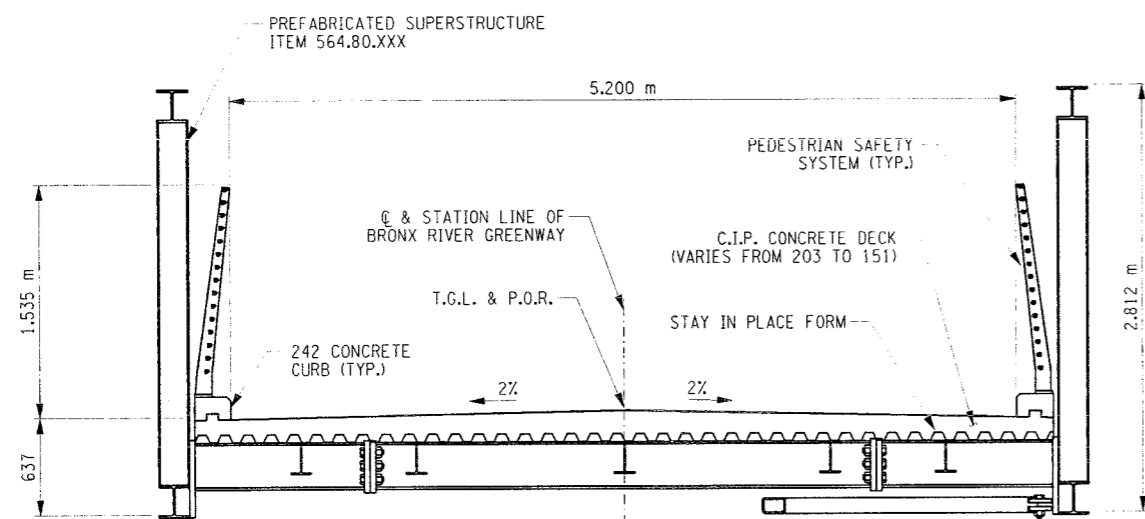
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OVER
THE BRONX RIVER
GENERAL
PLAN AND ELEVATION

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
REGION 11

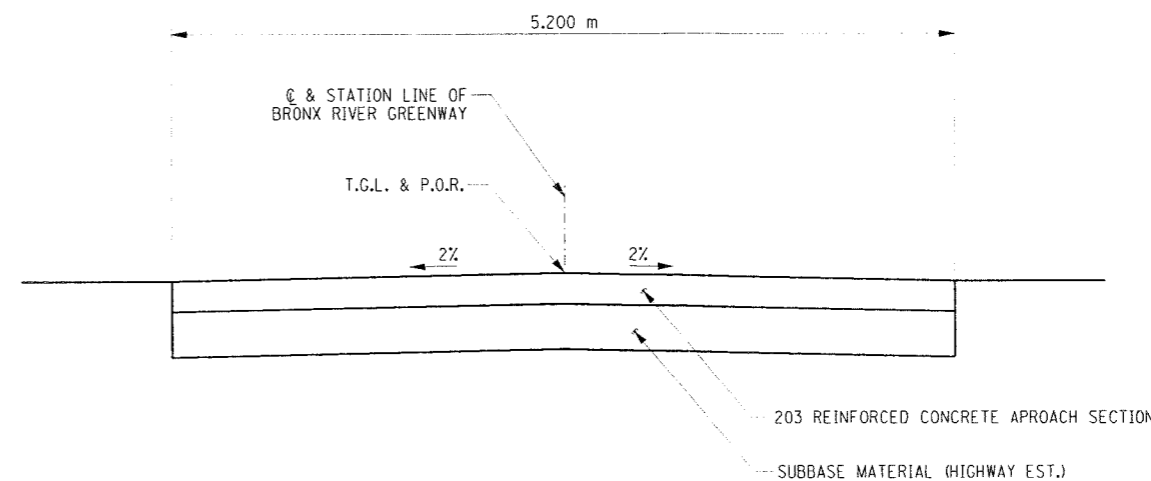
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P.I.N. X027.05		B.I.N. 2-26948-0		
BRONX COUNTY				
BRONX RIVER GREENWAY				
WESTCHESTER AVENUE TO EAST TREMONT AVENUE				

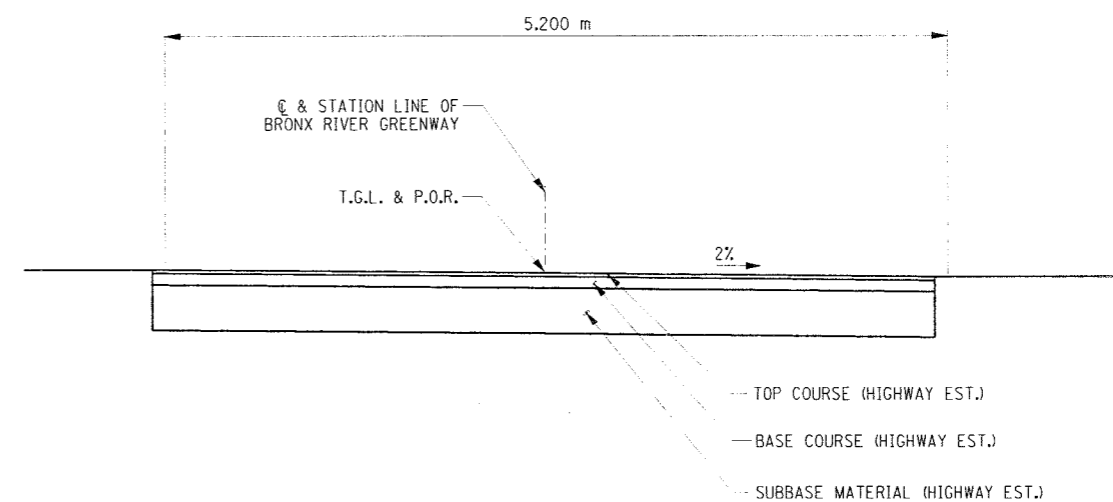
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 JOB MANAGER = W. ALBERT
 DESIGNED BY = J. WHEELER
 CHECKED BY = J. WHEELER
 ESTIMATED BY = J. WHEELER
 DRAFTED BY = J. WHEELER
 CHECKED BY = J. WHEELER



TYPICAL BRIDGE SECTION



TYPICAL APPROACH SECTION



TYPICAL GREENWAY SECTION

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE _____ DATE _____

BRONX RIVER GREENWAY (BRIDGE #4)
OVER
THE BRONX RIVER

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
REGION 11

DOCUMENT NAME X02705AB_G1B.DGN	DATE OCT. '06	DRAWING NO. ST4-2
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DESIGN CRITERIA

Nonstandard Feature Justification Form

Main Line Design (in accordance with HDM §2.7)			
PIN:	X027.05	NHS (Y/N):	No
Route No. & Name:	Westchester Avenue	Functional Class:	Urban Arterial
Project Type:	Multi-use path	Design Classification: (AASHTO Class)	
% Trucks:	10	Terrain:	Level
ADT:	18,000	Truck Access Rte.:	N/A
1. Description of Nonstandard Feature			
Type of Feature (e.g., horizontal curve radius):	Stopping Sight Distance		
Location:	Eastbound		
Standard Value:	60m. (200ft.)	Design Speed:	50 km/h (mph)
Existing Value:	43.72m. (144ft.)	Recommended Speed:	50 km/h (mph)
Proposed Value:	43.72m. (144ft.)	Recommended Speed:	50 km/h (mph)
2. Accident Analysis			
Current Accident Rate:	1.28	acc/mvm	
Statewide Rate (based on similar type highways):	0.60	acc/mvm	
Is the nonstandard feature a contributing factor?	<input type="checkbox"/> YES		<input checked="" type="checkbox"/> NO
Anticipated Accid.: Rate / Severity / Cost	Same as today		
3. Cost Estimates			
Cost to Fully Meet Standards:	\$		
Cost(s) For Incremental Improvements:	\$		
4. Mitigation (e.g., increased superelevation and curve warning signs for a nonstandard horizontal curve):			
	Project will include traffic calming measures and channelization improvements that will reduce speeds and provide incremental improvements to sight distance.		
5. Compatibility with Adjacent Segments & Future Plans:			
	The columns supporting the elevated rail line runs the entire length of Westchester Avenue.		
6. Other Factors (e.g., Social, Economic & Environmental):			
	Elimination of this feature would impede subway operations.		
7. Proposed Treatment (i.e., Recommendation):			
	Traffic calming and roadway channelization.		

DESIGN CRITERIA

Nonstandard Feature Justification Form

Main Line Design (in accordance with HDM §2.7)			
PIN:	X027.05	NHS (Y/N):	No
Route No. & Name:	Bronx River Greenway	Functional Class:	Class I - Bikeway
Project Type:	Multi-use path	Design Classification: (AASHTO Class)	N/A
% Trucks:	N/A	Terrain:	Level
ADT:	N/A	Truck Access Rte.:	
1. Description of Nonstandard Feature			
Type of Feature (e.g., horizontal curve radius):	Horizontal Curve Radius		
Location:	North of Bridge #2		
Standard Value:	27m	Design Speed:	30 km/h (mph)
Existing Value:	N/A	Recommended Speed:	30 km/h (mph)
Proposed Value:	10m	Recommended Speed:	20 km/h (mph)
2. Accident Analysis			
Current Accident Rate:	N/A acc/mvm		
Statewide Rate (based on similar type highways):	N/A acc/mvm		
Is the nonstandard feature a contributing factor?	<input type="checkbox"/> YES		<input checked="" type="checkbox"/> NO
Anticipated Accid.: Rate / Severity / Cost			
3. Cost Estimates			
Cost to Fully Meet Standards:	\$		
Cost(s) For Incremental Improvements:	\$		
4. Mitigation (e.g., increased superelevation and curve warning signs for a nonstandard horizontal curve):			
	Warning signs for bicyclists and skaters to slow down and increased superelevation.		
5. Compatibility with Adjacent Segments & Future Plans:			
6. Other Factors (e.g., Social, Economic & Environmental):			
7. Proposed Treatment (i.e., Recommendation):			
	Warning signs, reduced speed, increased superelevation		