LOCATION PLAN

SCALE IN FEET

1000 0 1000 2000

CONNECTICUT DEPARTMENT OF TRANSPORTATION PLAN

FOR

NEW BRITAIN - HARTFORD BUSWAY

CONSTRUCTION OF

AMTRAK ACCESS ROAD

IN THE TOWN(S) OF

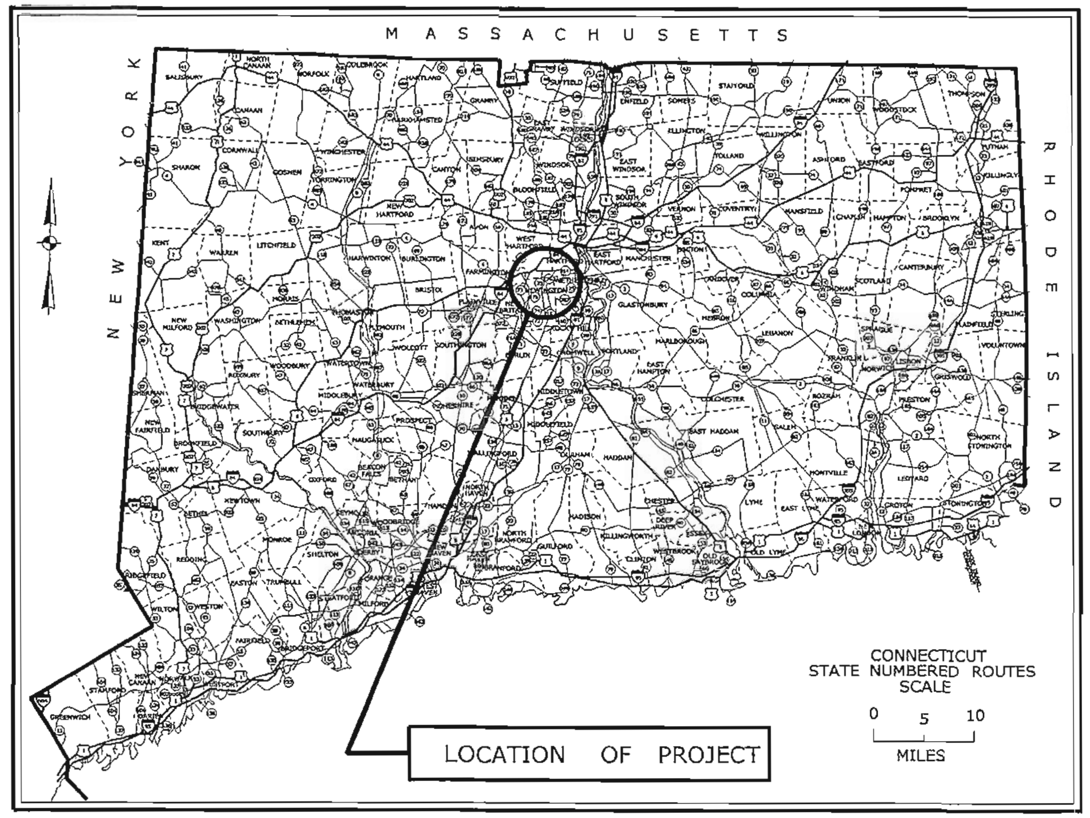
NEWINGTON, WEST HARTFORD, AND HARTFORD

FROM STA. 701+25 TO STA. 937+50 LENGTH 23,625 ft.

RECEIVED
AUG 12 2010
INLAND WATER RESOURCES DIVISION

DESIGN SCALES
- PLAN 1 in. = 40 ft.
- PROFILE HOR. 1 in. = 40 ft. VERT. 1 in. = 4 ft.
- CROSS SECTIONS 1 in. = 5 ft.
- OTHER SCALES AS NOTED

FEDERAL AID PROJECT NO. ____
STATE PROJECT NO. 171-305
CONTRACT PROJECT NO. 093-H052
TO BE MAINTAINED BY AMTRAK



THE DOCUMENT ENTITLED "STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 816, 2004" INCLUDING THE SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2009, IS HEREBY MADE PART OF THIS CONTRACT, AS MODIFIED BY THE SPECIAL PROVISIONS CONTAINED HEREIN.

ALL ELEVATIONS ON THIS PROJECT BASED ON NGVD OF 1929
COORDINATES BASED ON CONNECTICUT COORDINATE SYSTEM NAD 83

DESIGNED BY:
MICHAEL BAKER ENGINEERING, INC.

PER. ____
CONN. PROF. ENG. REG. NO. ____
DATE ____

LIST OF DRAWINGS

SHEET NO	TITLE	STD NO	STANDARD DRAWINGS	FHWA APPROV DATE
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7-8	INDEX PLANS			
9-12	TYPICAL SECTIONS			
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64-116	ROADWAY PLANS AND PROFILES			
117-141	SEDIMENTATION AND EROSION CONTROL PLANS			
--	~~TRAFFIC SIGNAL LAYOUT PLANS (not included)~~			
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142-155	ACCESS ROAD BRIDGE OVER TROUT BROOK RIVER			
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- NOTICE TO CONTRACTOR -
CONNECTICUT DEPARTMENT OF TRANSPORTATION DISCLAIMER

CONNECTICUT DEPARTMENT OF TRANSPORTATION BIDDING AND OTHER INFORMATION AND DOCUMENTS WHICH ARE OBTAINED THROUGH THE INTERNET WORLD WIDE WEB SITES OR OTHER SOURCES ARE NOT TO BE CONSTRUED TO BE OFFICIAL INFORMATION FOR THE PURPOSES OF BIDDING OR CONDUCTING OTHER BUSINESS WITH THE DEPARTMENT.

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICIAL SOURCES WITHIN THE DEPARTMENT.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE DEPARTMENT TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICIAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

THE PREPARATION OF THESE PLANS HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE US DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION, UNDER URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED

STATE OF CONNECTICUT
EDWARD R. WHITBREAD
PROFESSIONAL ENGINEER

PERMIT SUBMISSION PLANS - NOT FOR CONSTRUCTION
JULY 30, 2010

STANDARD EXISTNG CONVENTIONS

Hedge Row, North Arrow W/No. Coor., Edge Of Road, Dirt Road, BCLC, Granite Curb, Guide Rail, Concrete Median Barrier, Bit. Walk, Conc. Sidewalk, Railroad Tracks, Chain Link Fence, Rustic Fence, Pipe Fence, Board Fence, Water Edge, Stream, Ditch, TOWN LINE, Grid Arrow, Limit Of Marsh, Stone Wall, Ledge Outcrop, Inland Wetland Limits, STATE LINE, Power Line, Easement Line, Swamp, Building, Transmission Tower, Riprap, Tree Line, Shrub, Evergreen Tree, Deciduous Tree, Retaining Wall, Highway Line, Street Line, Property Line, Lot Line

Border VERSION 10/19/07

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO./CONTRACT NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CT	NEWINGTON, WEST HARTFORD & HARTFORD		171-305/093-H052	2010	N/A	1	

GENERAL:

1. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN AMTRAK PROPERTY WITH AMTRAK. ANY ON-SITE CONTRACTOR TRAILERS OR LAY DOWN AREAS WITHIN AMTRAK R.O.W. MUST BE APPROVED BY AMTRAK. REFER TO INDEX AND SEDIMENTATION AND EROSION CONTROL PLANS FOR SUGGESTED CONTRACTOR ACCESS POINTS AND LAY DOWN AREAS.

2. THE CONTRACTOR SHALL HAVE ALL EMPLOYEES AND SUBCONTRACTORS ATTEND THE AMTRAK SAFETY COURSE PRIOR TO COMMENCING ANY WORK. ANY EMPLOYEE OR SUBCONTRACTOR WHO HAS NOT COMPLETED THE SAFETY TRAINING COURSE WILL BE EXCLUDED FROM ALL ON-SITE WORK.

3. ACCESS TO DRIVEWAYS AND LOADING ZONES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND APPROVED BY AMTRAK.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING RAILROAD FLAGMEN/GROUND MEN FOR CONSTRUCTION ACROSS AND IN THE VICINITY OF ACTIVE TRACKS.

5. THE CONTRACTOR SHALL SUBMIT TRACK USAGE REQUESTS TO THE ENGINEER AT LEAST 14 DAYS IN ADVANCE. THE CONTRACTOR MUST OBTAIN APPROVAL FROM AMTRAK PRIOR TO CLOSING ANY TRACK. THE TRACK USAGE REQUEST MUST INCLUDE THE TRACK CLOSURE DATE AND CLOSURE TIME, AND SUBSEQUENT TRACK RE-OPEN DATE AND TIME. THE REQUEST MUST ALSO INCLUDE IF A TRACK IS BEING PERMANENTLY REMOVED FROM SERVICE.

6. WHEN DEWATERING IS NECESSARY, PUMPS SHALL NOT DISCHARGE DIRECTLY INTO ANY EXISTING DRAINAGE OR SANITARY SYSTEM. DISCHARGE SHALL BE PUMPED TO A TEMPORARY WATER TREATMENT FACILITY PROVIDED BY THE CONTRACTOR. REFER TO THE SPECIAL PROVISIONS.

7. THE CONTRACTOR SHALL BE AWARE THAT EXCAVATED MATERIAL WITHIN DESIGNATED AREAS OF ENVIRONMENTAL CONCERN (AOEC, LLAOEC), INCLUDING RAILROAD TIES MUST BE TAKEN TO THE WASTE STOCKPILE AREA FOR TESTING AND PROPER HANDLING. THE CONTRACTOR SHALL SCHEDULE HIS WORK AS TO NOT GENERATE MORE MATERIAL THAN THE WASTE STOCKPILE AREA CAN HANDLE. FOR ADDITIONAL INFORMATION SEE ENVIRONMENTAL DRAWINGS AND REFER TO THE SPECIAL PROVISIONS.

8. PLACEMENT OF REUSABLE CONTROLLED MATERIALS SHALL NOT BE ALLOWED BELOW THE SEASONAL HIGH GROUNDWATER ELEVATION. THE SEASONAL HIGH GROUNDWATER ELEVATION SHALL BE BASED ON GROUNDWATER LEVELS IDENTIFIED ON THE NEAREST BORING LOG.

9. ALL DIMENSIONS AND ELEVATIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO START OF MANUFACTURING AND CONSTRUCTION, AND NECESSARY ADJUSTMENTS WILL BE ADDRESSED BY THE ENGINEER THROUGH THE RFI PROCESS.

10. THE INFORMATION SHOWN ON THESE PLANS IS BASED ON LIMITED INVESTIGATIONS AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OF WORK REQUIRED. LOCATIONS OF EXISTING UTILITIES AND UNDERGROUND STRUCTURES HAVE BEEN COMPILED FROM THE BEST AVAILABLE INFORMATION. ALL UTILITIES AND UNDERGROUND STRUCTURES MAY NOT BE SHOWN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION OF ALL UTILITIES AND FOR UTILITY COORDINATION. UTILITY LINES DAMAGED BY THE CONTRACTOR SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND THE UTILITY COMPANY AND THE COST OF REPAIR WORK SHALL BE BORNE BY THE CONTRACTOR.

11. WITHIN THE LIMITS OF ENVIRONMENTAL CONCERN REUSABLE CONTROLLED MATERIAL SHALL BE USED AS SUITABLE BACKFILL ABOVE THE SEASONAL HIGH GROUNDWATER TABLE, UNLESS OTHERWISE NOTED. GRANULAR FILL SHALL BE USED FOR ALL SUITABLE BACKFILL OPERATIONS BELOW THE WATER TABLE, UNLESS OTHERWISE NOTED.

12. ANY OPERATION WHICH PLACES OR HAS THE POTENTIAL TO PLACE PERSONNEL, EQUIPMENT OR MATERIAL WITHIN 15 (FIFTEEN) FEET OF THE CENTERLINE OF A RAILROAD TRACK IS CONSIDERED TO CONSTITUTE FOULING THAT TRACK. THE CONTRACTOR MUST BE PROTECTED BY A RAILROAD FLAGMAN AT ALL TIMES WHEN IT'S OPERATION WILL OR MAY FOUL A TRACK.

13. ALL DISTURBED AREAS OUTSIDE THE LIMIT OF ROADWAY, TURF ESTABLISHMENT, DRIVEWAYS, PARKING, BUILDINGS, TRACKS, CONCRETE, ETC. SHALL BE STABILIZED WITH A MINIMUM 8" STONE BALLAST AS SHOWN ON THE PLANS OR DIRECTED BE THE ENGINEER.

DEMOLITION:

1. ALL EROSION AND SEDIMENTATION CONTROL SYSTEMS ARE TO BE IN PLACE PRIOR TO THE START OF ANY DEMOLITION WORK.

2. ALL POLES TO BE REMOVED SHALL BE COMPLETED BY RESPECTIVE OWNER. ALL POLE REMOVALS SHALL BE COORDINATED WITH AMTRAK AND CL&P. AMTRAK SHALL DEACTIVATE AND REMOVE/RELOCATE ALL POLE MOUNTED UTILITIES PRIOR TO POLE REMOVAL. THE CONTRACTOR SHALL INSPECT ALL POLES CALLED OUT FOR REMOVAL IN ADVANCE. ANY POLE THAT PROVIDES SUPPORT TO AN EXISTING POLE THAT WILL REMAIN MUST BE PERMANENTLY SUPPORTED BEFORE THE REMOVAL OF THE SUPPORT POLE. THE CONTRACTOR SHALL INSTALL A NEW GUY WIRE OR BRACE AS DIRECTED BY THE ENGINEER PRIOR TO POLE REMOVAL. COST OF WORK TO BE INCLUDED UNDER THE ITEM "REMOVE POLE". REMOVAL OF ANY POLE FOUNDATIONS TO BE PAID FOR UNDER ITEMS "EARTH EXCAVATION" AND "ROCK EXCAVATION".

3. ABANDONMENT OF ALL UTILITIES IS TO BE INCLUDED IN THE GENERAL COST OF THE WORK. NO SEPARATE PAYMENT WILL BE MADE.

4. ABANDONED MANHOLES AND CATCH BASINS SHALL BE REMOVED 3' BELOW GRADE. ALL ABANDONED PIPES SHALL BE PLUGGED AND FILLED WITH FLOWABLE FILL.

5. SEE SPECIAL PROVISIONS FOR DISPOSAL OF CONTAMINATED RAILROAD TIES.

SITE GRADING:

THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

1. ALL DISTURBED AREAS OUTSIDE THE LIMIT OF ROADWAY PAVEMENT, DRIVEWAYS, PARKING, BUILDINGS, TRACKS, CONCRETE, SIDEWALKS, ETC., SHALL BE STABILIZED WITH A MINIMUM OF 8" STONE BALLAST.

2. PROVISIONS SHOULD BE MADE TO TEMPORARILY DIRECT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.

3. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, UNDERMINING, OR CRACKING.

4. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER PROPERTY OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATER BODIES.

5. PRIOR TO ANY EARTHWORK, AN ANTI-TRACKING PAD SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE. ANY ONSITE MATERIAL TRACKED ONTO ADJACENT ROADWAYS MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

STORMWATER:

1. ALL MANHOLES AND CATCH BASINS SHALL BE PRECAST.

UTILITIES:

1. THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS AND ARE NOT GUARANTEED TO BE CORRECT OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WHICH MAY CONFLICT WITH THE WORK BY DIGGING TEST PITS BEFORE COMMENCING WORK. TEST PITS WILL BE PAID FOR AS "TEST PITS".

2. THE CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING & PROPOSED UTILITIES THROUGHOUT THE DURATION OF THE PROJECT.

3. NEW WATERMAINS LOCATED UNDER TRACKS SHALL BE SLEEVED.

FLOOD CONTINGENCY:

1. THE CONTRACTOR IS HEREBY NOTIFIED THAT THE PROJECT AREA IS WITHIN THE 100 YR AND 500 YR FLOOD ZONE.

2. THE CONTRACTOR IS BOUND BY THE CONDITIONS SET FORTH IN THE CONNECTICUT DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION", FORM 816, 2004, WITH THE LATEST SUPPLEMENTAL SPECIFICATIONS. SPECIFICALLY, SECTION 1.10 - ENVIRONMENTAL COMPLIANCE, ADDRESSES THE NEED FOR THE CONTRACTOR TO MAINTAIN A STABLE WORK AREA AND TO COORDINATE WITH THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WEATHER SERVICE FOR INFORMATION PERTAINING TO STORMS. THESE PROVISIONS ARE FULLY DESCRIBED UNDER ITEMS 9 AND 10 OF THE "BEST MANAGEMENT PRACTICES".

3. CONTRACTOR STORAGE OF MATERIALS THAT COULD BE INJURIOUS TO HUMAN HEALTH OR THE ENVIRONMENT IN THE EVENT OF FLOODING WILL BE LOCATED OUTSIDE OF THE 500 YR FLOOD ZONE. OTHER MATERIAL OR EQUIPMENT MAY BE STORED BELOW THE 500 YR FLOOD ELEVATION SUCH THAT THE MATERIAL OR EQUIPMENT WILL BE FIRMLY ANCHORED, RESTRAINED OR ENCLOSED TO PREVENT IT FROM FLOATING AWAY OR THAT SUCH MATERIAL OR EQUIPMENT CAN BE REMOVED PRIOR TO FLOODING.

AMTRAK FORCE ACCOUNT

ALL AMTRAK WORK SHALL BE PAID FOR FROM AN AMTRAK FORCE ACCOUNT SEPARATE FROM CONTRACTOR FUNDS. THE FOLLOWING WORK WILL BE COMPLETED BY AMTRAK FUNDS:

1. DISMANTLING AND REMOVAL OF MAIN TRACKS.
2. DISMANTLING AND REMOVAL OF SIDING TRACKS.
3. ALL TRACK WORK ABOVE A LINE 4" BELOW BOTTOM OF TIE.
4. ALL GRADE CROSSING PANEL WORK.
5. ALL SIGNAL WORK.
6. INSTALLING C&S CABLES IN DUCT BANK.
7. RAILROAD PROTECTION (FLAGEMEN).

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_GEN-01.dgn

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: GENERAL NOTES

PROJECT NO. 093-H052
DRAWING NO. GEN-01
SHEET NO. 5

SEDIMENTATION AND EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL INSTALL TEMPORARY SEDIMENTATION AND EROSION CONTROL DEVICES AS SHOWN ON THE PLANS PER THE 2002 CONNECTICUT EROSION AND SEDIMENTATION GUIDELINES, OR AS DIRECTED BY THE ENGINEER.

2. EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION", FORM 816, 2004, WITH LATEST SUPPLEMENTAL SPECIFICATIONS, 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, DEP BULLETIN 34, AND THE PROJECT SPECIFICATIONS.

3. THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION.

4. IN GENERAL FOR ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL METHODS TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

5. DEBRIS AND OTHER WASTE RESULTING FROM THE CONTRACTOR'S EQUIPMENT MAINTENANCE AND CONSTRUCTION SHALL NOT BE DISCARDED ON SITE.

6. THROUGHOUT THE DURATION OF THE WORK, THE CONTRACTOR MUST MAINTAIN ON SITE A SUPPLY OF ABSORBENT PADS AND OTHER APPROVED MATERIALS NEEDED TO TREAT ANY HAZARDOUS SPILL OR CONTAMINATION. ALL SPILLS OR CONTAMINATIONS MUST BE REPORTED IMMEDIATELY TO THE DEP HAZARDOUS MATERIALS OFFICE AT 860-434-3338 OR 860-424-3024 AS WELL AS LOCAL AUTHORITIES.

7. DURING CONSTRUCTION CATCH BASINS MUST BE PROTECTED BY THE CONTRACTOR WITH HAY BALE FILTERS, GEOTEXTILE FILTERS AND OTHER APPROVED MEASURES THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.

8. SOIL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED DAILY AND AFTER ALL STORMS. ALL NECESSARY REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY BY THE CONTRACTOR AS NEEDED.

9. ANY SEDIMENTATION CONTROL SYSTEM SHALL BE PLACED A MINIMUM OF 10' FROM THE C OF ANY ACTIVE TRACK.

PERMITTING REQUIREMENTS:

1. THE CONTRACTOR IS HEREBY NOTIFIED THAT THE FOLLOWING PERMITS ARE REQUIRED FOR THIS PROJECT. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL APPLICABLE CONDITIONS. ADDITIONAL PERMITS BY OTHER REGULATORY AGENCIES MAY ALSO BE REQUIRED:

   FLOOD MANAGEMENT CERTIFICATION
   STREAM CHANNEL ENCROACHMENT
   CONNECTICUT INLAND WETLAND AND WATERCOURSE
   GENERAL PERMIT FOR STORMWATER DISCHARGE
   WATER QUALITY CERTIFICATION

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE EROSION CONTROL PLAN AND ANY ADDITIONAL REQUIREMENTS (INCLUDING INSPECTION AND CERTIFICATION) IMPOSED BY THE U.S. EPA NPDES PERMIT AND ANY OTHER LOCAL, STATE OR FEDERAL REGULATIONS INCLUDING STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERAL PERMIT DEP-PED-GP-015, "GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES".

3. IF ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED DURING OR AFTER CONSTRUCTION, AS DETERMINED BY THE ENGINEER, OR OTHER AUTHORITIES, THE CONTRACTOR SHALL TAKE SUCH ADDITIONAL MEASURES AS THEY MAY DIRECT.

4. EACH CONTRACTOR AND SUBCONTRACTOR PERFORMING WORK ON THIS SITE SHALL BE REQUIRED TO CERTIFY THAT THEY HAVE READ AND UNDERSTAND THE TERMS OF CT. DEP GENERAL PERMIT DEP-PED-GP-015.

GENERAL PHASING OF SWALES AND EROSION SWALES MEASURES:

THE CONSTRUCTION OF THE TEMPORARY SEDIMENTATION BASINS, IF REQUIRED MUST BE COMPLETED BY THE CONTRACTOR BEFORE ANY OTHER WORK BEGINS AT THE SITE. EXTREME CAUTION MUST BE TAKEN TO LIMIT THE EXTENT OF DISTURBED AREAS. WORK SHALL BE CONDUCTED BY THE CONTRACTOR IN THE FOLLOWING ORDER (FOR ADDITIONAL INFORMATION SEE SEQUENCE OF CONSTRUCTION):

1. INSTALL ANTI-TRACKING PADS AS DIRECTED BY THE ENGINEER.

2. INSTALL SEDIMENTATION CONTROL SYSTEM AROUND ALL EXISTING CATCH BASINS AND DRAINS, EACH STOCKPILE AND STORAGE AREA AND IN OTHER AREAS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

3. CONSTRUCT TEMPORARY SEDIMENTATION BASINS AND TEMPORARY SWALES IF REQUIRED, TO DIRECT RUNOFF TO BASINS. INSTALL CHECK DAMS IN SWALES AND OTHER AREAS OF CONCENTRATED FLOW.

SEDIMENTATION AND EROSION CONTROL MAINTENANCE DURING CONSTRUCTION:

1. ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION BY THE CONTRACTOR ON A DAILY BASIS AND FOLLOWING ALL STORMS. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUIRED. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS FOLLOWING ALL STORM EVENTS. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK.

2. THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES AND PIPES AS REQUIRED TO KEEP THE SYSTEM FUNCTIONING PROPERLY DURING CONSTRUCTION AND AT THE COMPLETION OF CONSTRUCTION.

3. FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP AND CLEAN SEDIMENT COVERED STONES.

4. THE CONTRACTOR SHALL INSPECT, REPAIR AND CLEAN ALL SILT FENCES AS REQUIRED PER 816, ETC. AND AS DIRECTED BY THE ENGINEER.

5. THE CONTRACTOR SHALL REMOVE DIRTY STONE AND REPLACE WITH CLEAN STONE AT ALL ANTI-TRACKING PADS AS THE BECOME SATURATED WITH MUD TO INSURE THAT THEY WORK AS PLANNED DURING THE CONSTRUCTION.

ABBREVIATIONS

AAR	AMTRAK ACCESS ROAD
EL.	ELEVATION
SCEL	STREAM CHANNEL ENCROACHMENT LINE
MBR	METAL BEAM RAIL
AOBE	AS ORDERED BY ENGINEER
RC	REINFORCED CONCRETE
IWC	INTERMITTENT WATERCORUSE
RCP	REINFORCED CONCRETE PIPE
UG	UNDERGROUND
OH	OVERHEAD
N/A	NON-ACCESS
ROW	RIGHT-OF-WAY
INV	INVERT
MH	MANHOLE
CB	CATCH BASIN

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_GEN-02.dgn

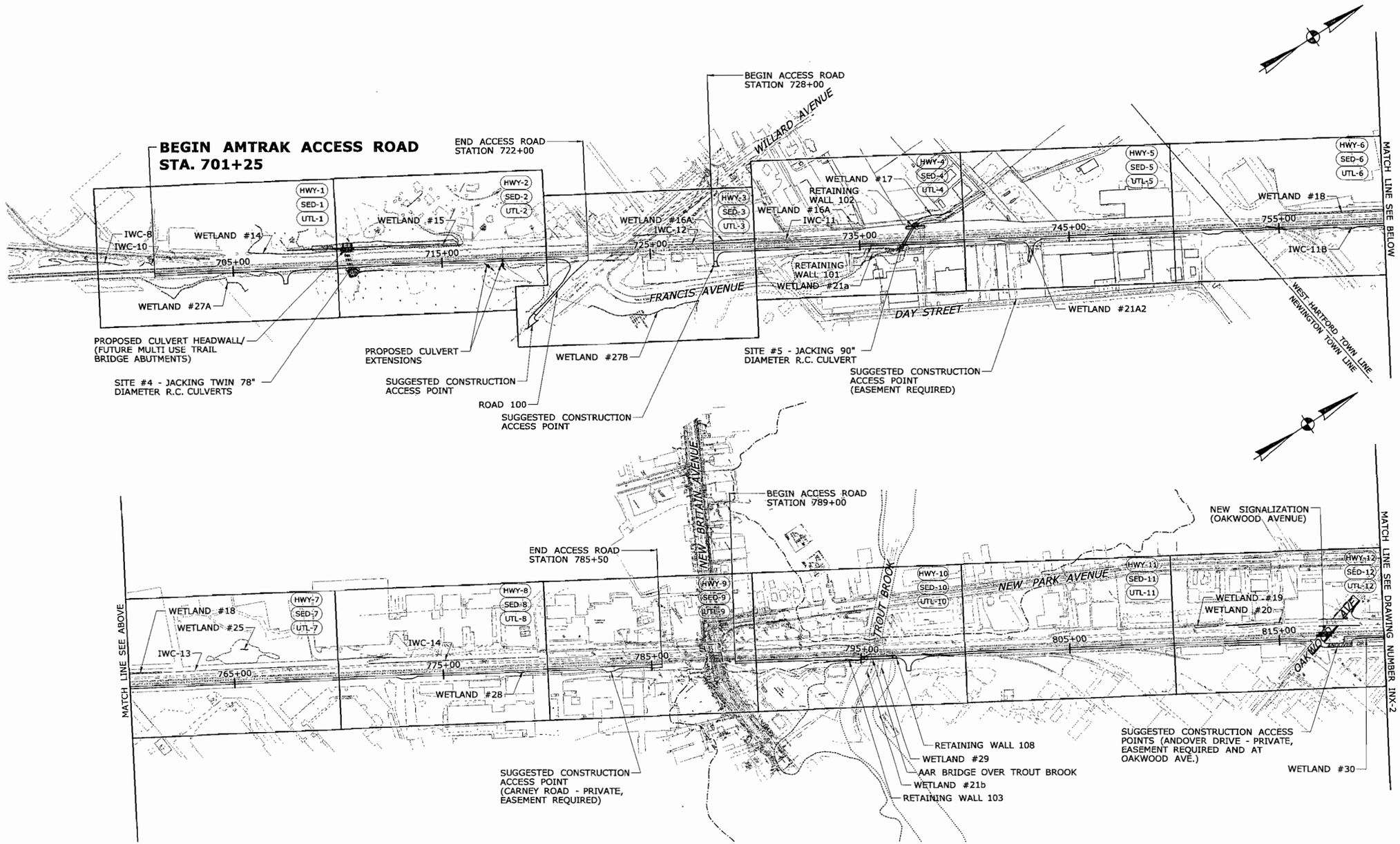
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: GENERAL NOTES

PROJECT NO. 093-H052
DRAWING NO. GEN-02
SHEET NO. 6



INDEX PLAN

SCALE: 1"=250'

500 250 0 500

NOTES:

1. PLACE SERIES 16 CONSTRUCTION SIGNS AND PUBLIC INFORMATION SIGNS AS DIRECTED BY THE ENGINEER.
2. FOR BASELINE GEOMETRY AND SOIL TEST BORING LOCATIONS SEE DWG. HWY-1 THRU HWY-25.

LEGEND

- (HWY-XX) GENERAL ROADWAY PLAN DWG NO.
- (SED-XX) SEDIMENTATION AND EROSION CONTROL PLAN DWG NO.
- (UTL-XX) AMTRAK C&S AND LEVEL 3 RELOCATION DWGS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_INX-01.dgn

MICHAEL BAKER ENGINEERING, INC.

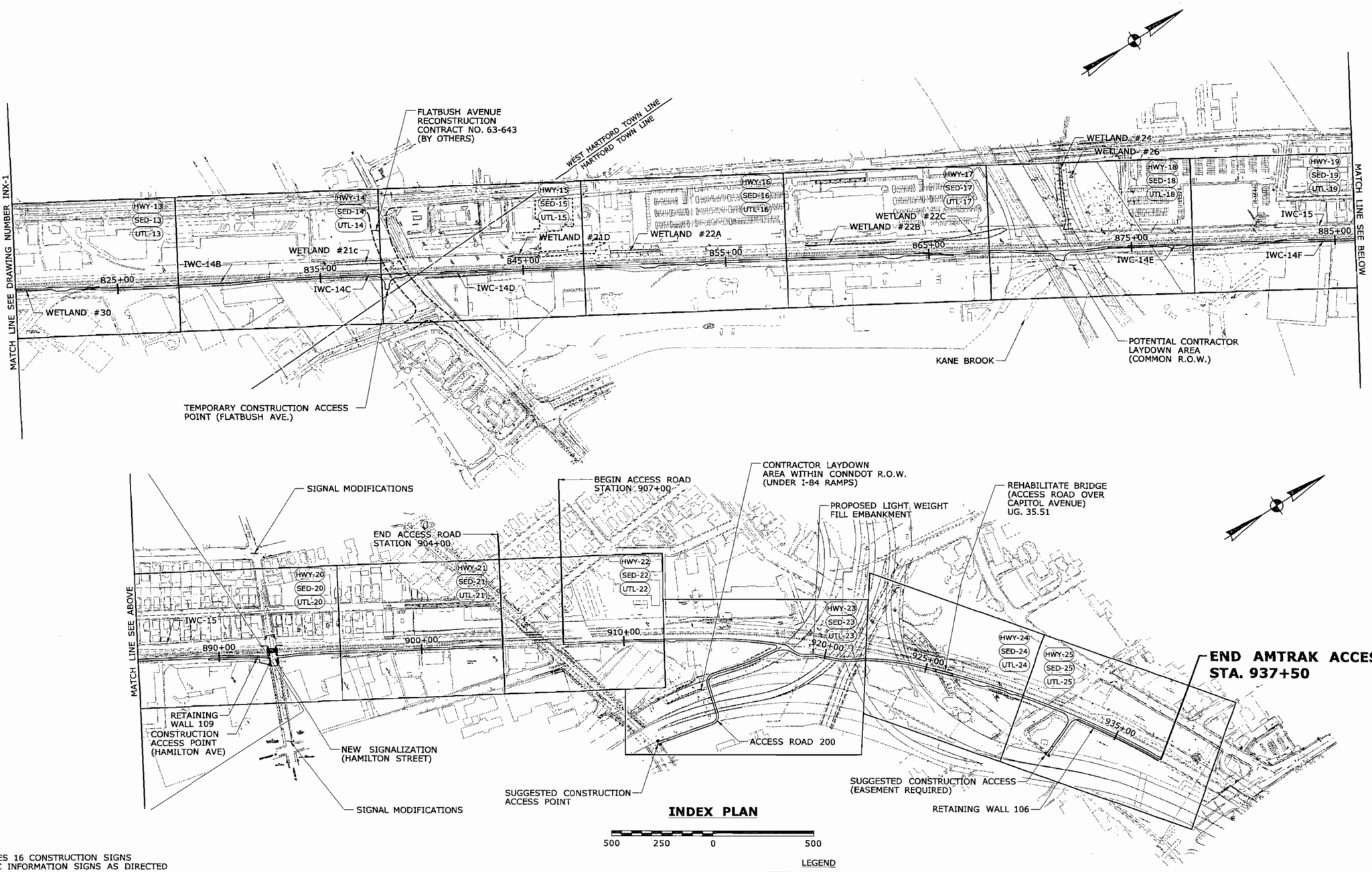
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: INDEX PLAN

PROJECT NO. 093-H052
DRAWING NO. INX-01
SHEET NO.



INDEX PLAN

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_INX-02.dgn

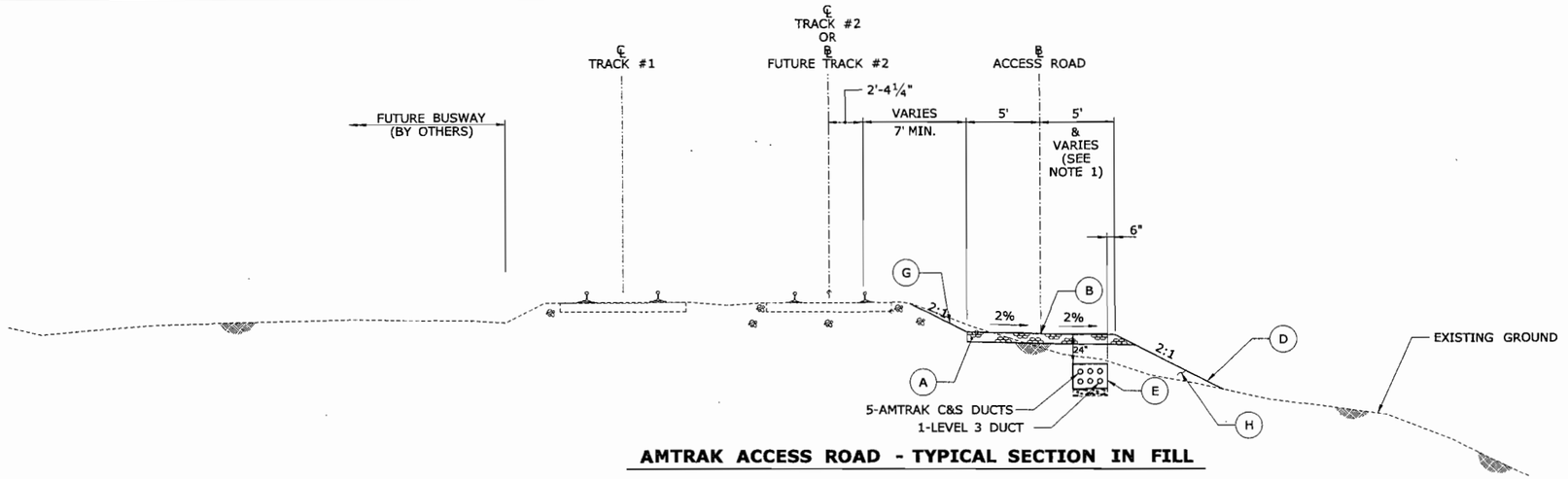
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

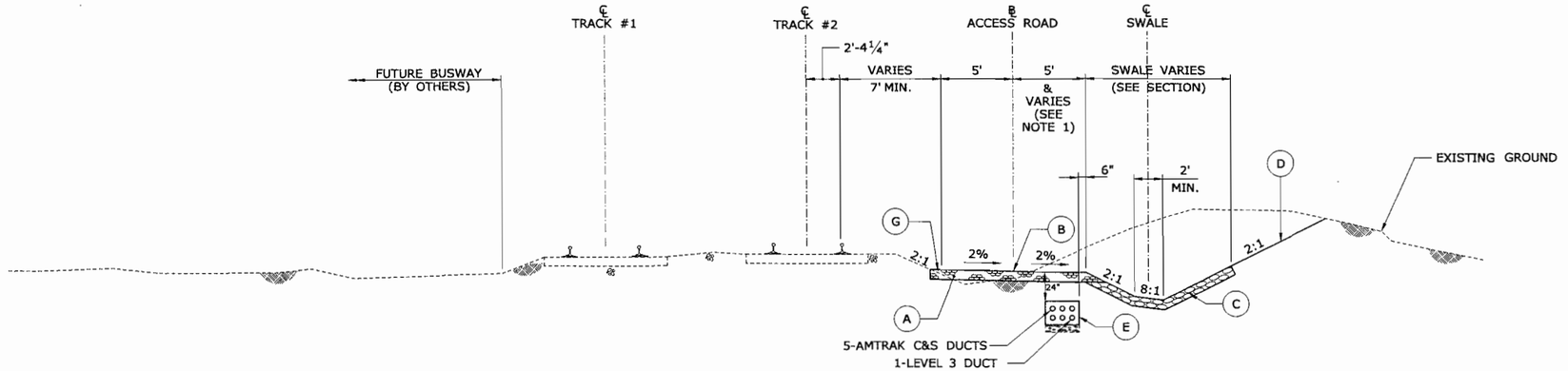
DRAWING TITLE:
INDEX PLAN

PROJECT NO. 093-H052
DRAWING NO. INX-02
SHEET NO.



AMTRAK ACCESS ROAD - TYPICAL SECTION IN FILL

STA. 701+25 TO STA. 709+50
STA. 718+00 TO STA. 722+00
STA. 730+50 TO STA. 732+50
STA. 789+00 TO STA. 792+00
STA. 869+00 TO STA. 884+00
STA. 907+00 TO STA. 919+00
STA. 921+00 TO STA. 925+25



AMTRAK ACCESS ROAD - TYPICAL SECTION IN CUT

STA. 738+40 TO STA. 784+47
STA. 796+51 TO STA. 815+00
STA. 818+50 TO STA. 821+75
STA. 832+50 TO STA. 834+15
STA. 839+25 TO STA. 866+50
STA. 893+50 TO STA. 898+50
STA. 926+50 TO STA. 930+90

LEGEND

- (A) 8" SUBBALLAST
- (B) POINT OF GRADE APPLICATION
- (C) MODIFIED RIPRAP SWALE (SEE DETAIL)
- (D) 6" STONE BALLAST (OR AS NOTED ON PLANS)
- (E) SIX-WAY CONCRETE DUCT BANK (SEE DWG MDS-07) (5 Amtrak Ducts and 1 Level 3 Duct)
- (F) MBR (TYPE RB-350)
- (G) STONE BALLAST (AS REQUIRED)
- (H) EMBANKMENT MATERIAL
- (I) LIGHT WEIGHT FILL MATERIAL

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

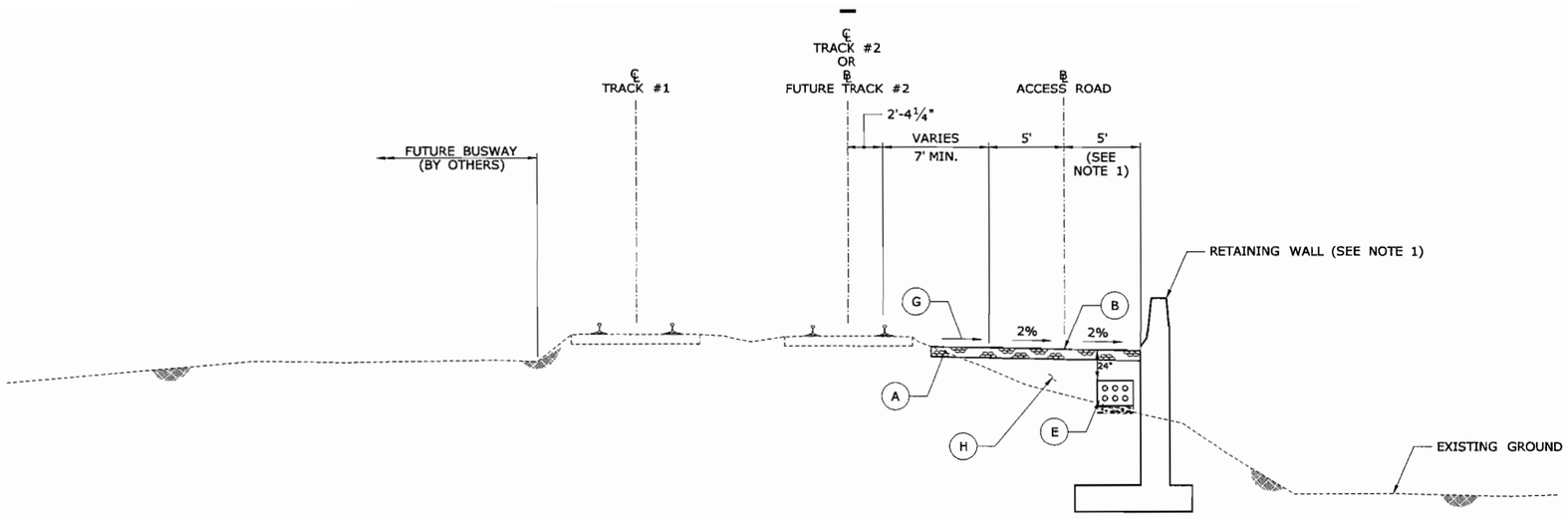
Filename: ...\HW_MSH_093_H052_TYP-01(Amtrak-level 3rev).dgn

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

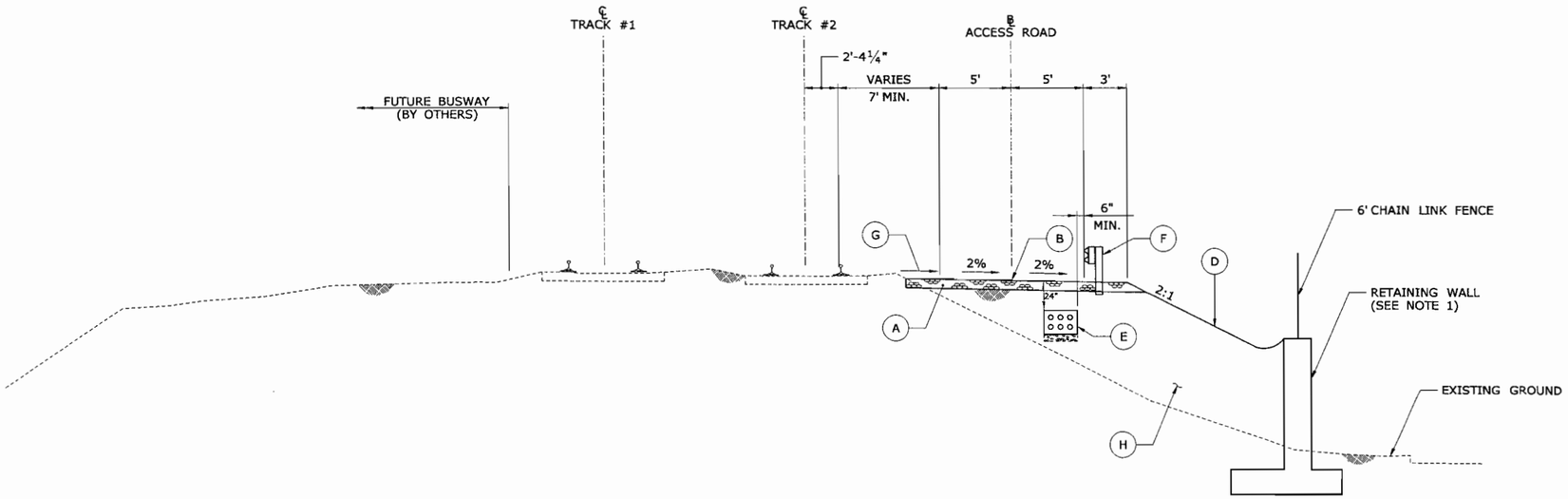
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: TYPICAL SECTIONS

PROJECT NO. 093-H052
DRAWING NO. TYP-01
SHEET NO. 9



AMTRAK ACCESS ROAD - TYPICAL SECTION
STA. 735+00 TO STA. 738+40



AMTRAK ACCESS ROAD - TYPICAL SECTION
STA. 793+35 TO STA. 796+75
STA. 933+10 TO STA. 937+50

LEGEND

- (A) 8" SUBBALLAST
- (B) POINT OF GRADE APPLICATION
- (C) MODIFIED RIPRAP SWALE (SEE DETAIL)
- (D) 6" STONE BALLAST (OR AS NOTED ON PLANS)
- (E) SIX-WAY AMTRAK CONCRETE DUCT BANK (SEE DWG MDS-11)
- (F) MBR (TYPE RB-350)
- (G) STONE BALLAST (AS REQUIRED)
- (H) EMBANKMENT MATERIAL
- (I) LIGHT WEIGHT FILL MATERIAL

NOTES

1. SEE STRUCTURE DWGS FOR INFORMATION

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

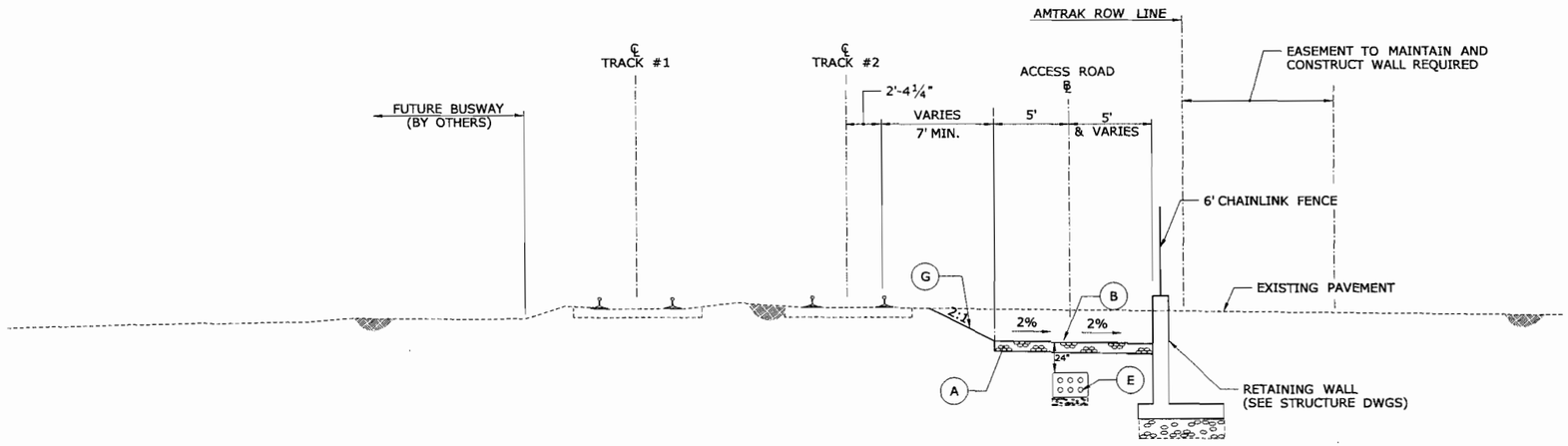
Filename: ...\HW_MSH_093_H052_TYP-02.dgn

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: TYPICAL SECTIONS

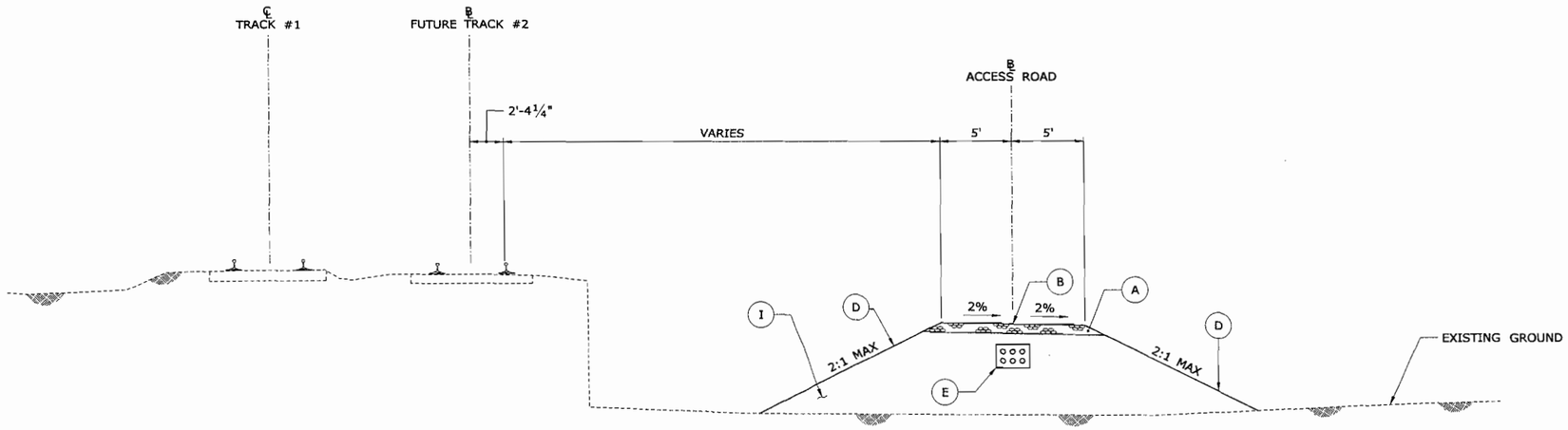
PROJECT NO. 093-H052
DRAWING NO. TYP-02
SHEET NO.



AMTRAK ACCESS ROAD - TYPICAL SECTION IN CUT W/ RETAINING WALL
STA. 889+50 TO STA. 892+00

LEGEND

- (A) 8" SUBBALLAST
- (B) POINT OF GRADE APPLICATION
- (C) MODIFIED RIPRAP SWALE (SEE DETAIL)
- (D) 6" STONE BALLAST (OR AS NOTED ON PLANS)
- (E) SIX-WAY AMTRAK CONCRETE DUCT BANK (SEE DWG MDS-11)
- (F) MBR (TYPE RB-350)
- (G) STONE BALLAST (AS REQUIRED)
- (H) EMBANKMENT MATERIAL
- (I) LIGHT WEIGHT FILL MATERIAL



AMTRAK ACCESS ROAD - TYPICAL SECTION IN LIGHTWEIGHT FILL
STA. 919+00 TO STA. 921+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_TYP-03.dgn

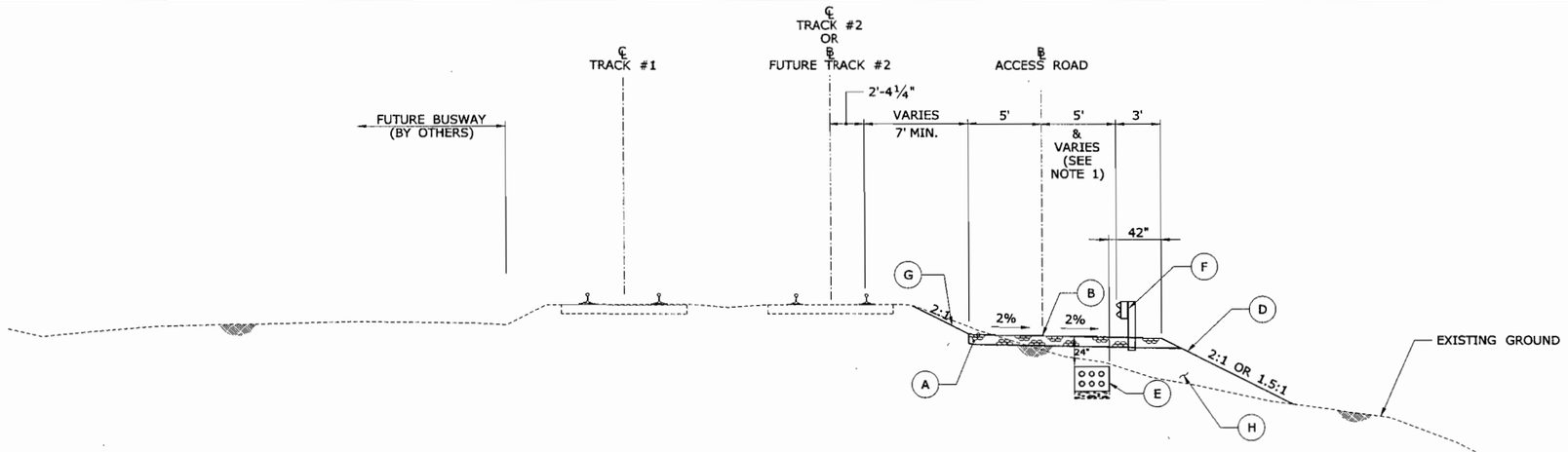
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
TYPICAL SECTIONS

PROJECT NO. 093-H052
DRAWING NO. TYP-03
SHEET NO.

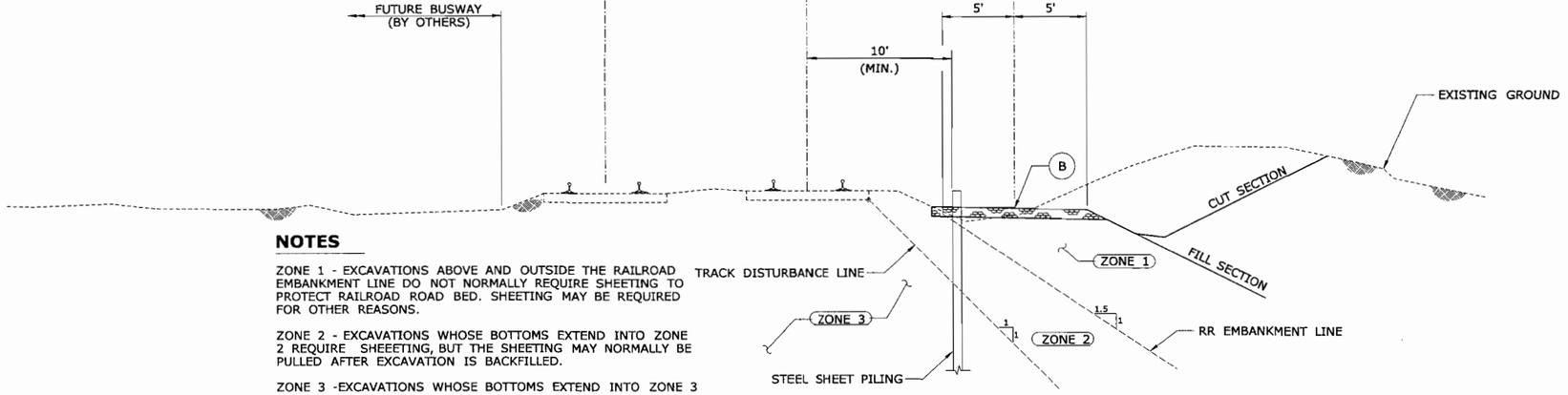


AMTRAK ACCESS ROAD - TYPICAL SECTION WHEN MBR IS REQUIRED

STA. 709+50 TO STA. 718+00
STA. 732+50 TO STA. 735+00
STA. 792+00 TO STA. 793+30

LEGEND

- (A) 8" SUBBALLAST
- (B) POINT OF GRADE APPLICATION
- (C) MODIFIED RIPRAP SWALE
- (D) 6" STONE BALLAST (OR AS NOTED ON PLANS)
- (E) SIX-WAY AMTRAK CONCRETE DUCT BANK (SEE DWG MDS-11)
- (F) MBR (TYPE RB-350)
- (G) STONE BALLAST (AS REQUIRED)
- (H) EMBANKMENT MATERIAL
- (I) LIGHT WEIGHT FILL
- (J) SLOPE AS INDICATED ON CROSS SECTIONS
- (K) TURF ESTABLISHMENT



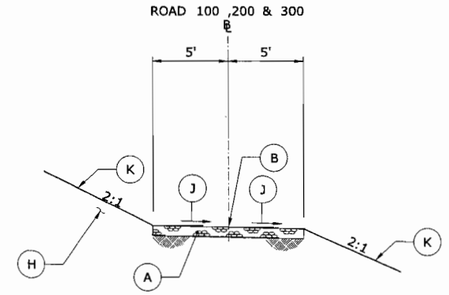
NOTES

ZONE 1 - EXCAVATIONS ABOVE AND OUTSIDE THE RAILROAD EMBANKMENT LINE DO NOT NORMALLY REQUIRE SHEETING TO PROTECT RAILROAD ROAD BED. SHEETING MAY BE REQUIRED FOR OTHER REASONS.

ZONE 2 - EXCAVATIONS WHOSE BOTTOMS EXTEND INTO ZONE 2 REQUIRE SHEEETING, BUT THE SHEETING MAY NORMALLY BE PULLED AFTER EXCAVATION IS BACKFILLED.

ZONE 3 -EXCAVATIONS WHOSE BOTTOMS EXTEND INTO ZONE 3 WILL NORMALLY REQUIRE THE SHEETING TO BE LEFT IN PLACE AND CUT-OFF PER REQUIREMENTS.

AMTRAK REQUIREMENTS FOR SHEET PILING ADJACENT TO TRACK



ROAD 100, 200 AND 300 - TYPICAL SECTION

ROAD 100 (STA 100+00 TO STA 104+04)
ROAD 200 (STA 200+61 TO STA 210+00)
ROAD 300 (STA 300+20 TO STA 302+55)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_TYP-04.dgn

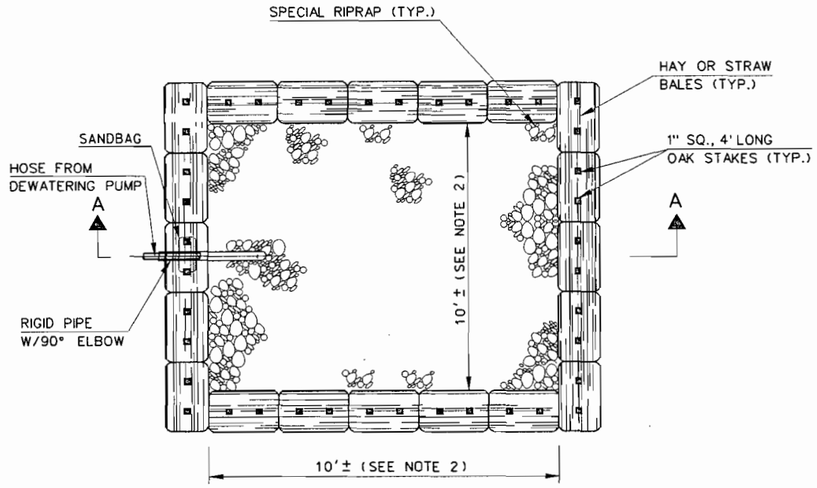
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

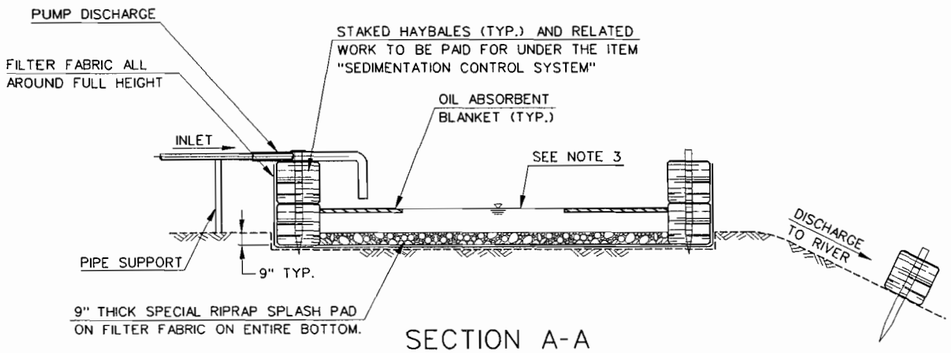
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: TYPICAL SECTIONS

PROJECT NO. 093-H052
DRAWING NO. TYP-04
SHEET NO.



PLAN



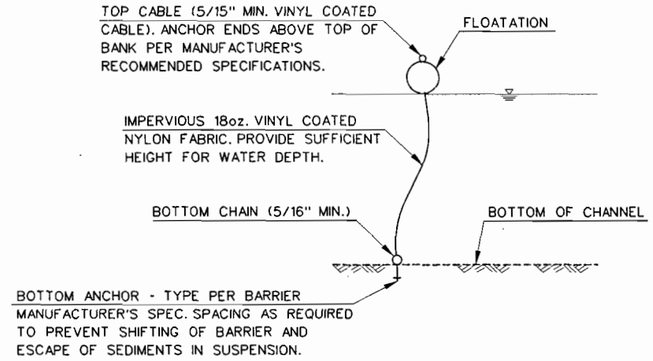
SECTION A-A

TEMPORARY SEDIMENT BASIN FOR DEWATERING DISCHARGE

NOT TO SCALE

BASIN NOTES:

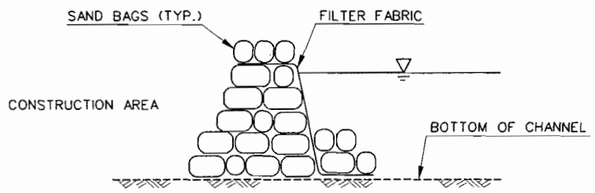
1. CONTRACTOR TO BRACE HAY BALES AS REQUIRED FOR STABILITY.
2. DIMENSIONS TO VARY DEPENDENT UPON DE-WATERING RATE.
3. VOLUME OF BASIN IS EQUAL TO THE MAXIMUM VOLUME OF WATER CAPABLE OF BEING PUMPED OVER ONE HOUR. THIS VOLUME CAN BE DETERMINED BY PUMP MANUFACTURER'S SPECIFICATIONS. IF PUMPING VOLUME EXCEEDS BASIN CAPACITY, BASIN MAY BE USED IN TANDEM OR IN TIERS.
4. SPECIAL RIPRAP STONE SHALL CONFORM TO NO. 3 STONE AS SHOWN IN SECTION M.01.01 OF CONNDOT FORM 816.
5. AT THE COMPLETION OF THE WORK, THE BASIN AND ALL RELATED MATERIALS SHALL BE REMOVED FROM THE SITE, AND THE AREA SHALL BE RETURNED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL BE INCLUDED UNDER EACH ITEM, EXCEPT THE CLEAN-UP WHICH WILL NOT BE MEASURED FOR PAYMENT BUT INCLUDED IN THE GENERAL COST OF THE WORK.
6. THE TEMPORARY SEDIMENT BASIN SHALL BE DESIGNED IN ACCORDANCE WITH 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL



TURBIDITY CONTROL CURTAIN DETAIL

NOT TO SCALE

NOTE:
TURBIDITY BOOM SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION WITHIN THE WORK AREA IS FINISHED AND THE SOIL PARTICLES IN SUSPENSION HAVE SETTLED TO THE BOTTOM.



NOTE: THE COST OF THIS WORK SHALL BE INCLUDED UNDER THE ITEM "HANDLING WATER". SEE SPECIAL PROVISIONS.

SUGGESTED FLOW DIVERSION BARRIER DETAIL

NOT TO SCALE

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

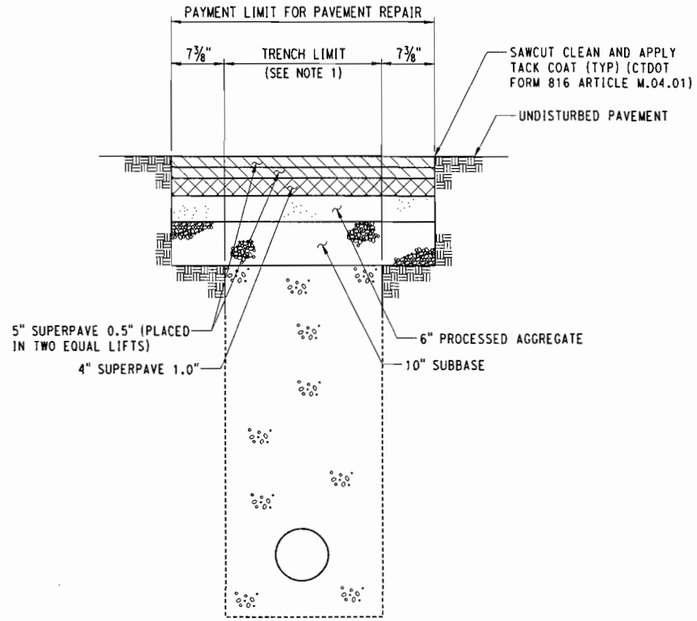
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: MISCELLANEOUS DETAILS

PROJECT NO. 093-H052
DRAWING NO. MDS-01
SHEET NO. 14

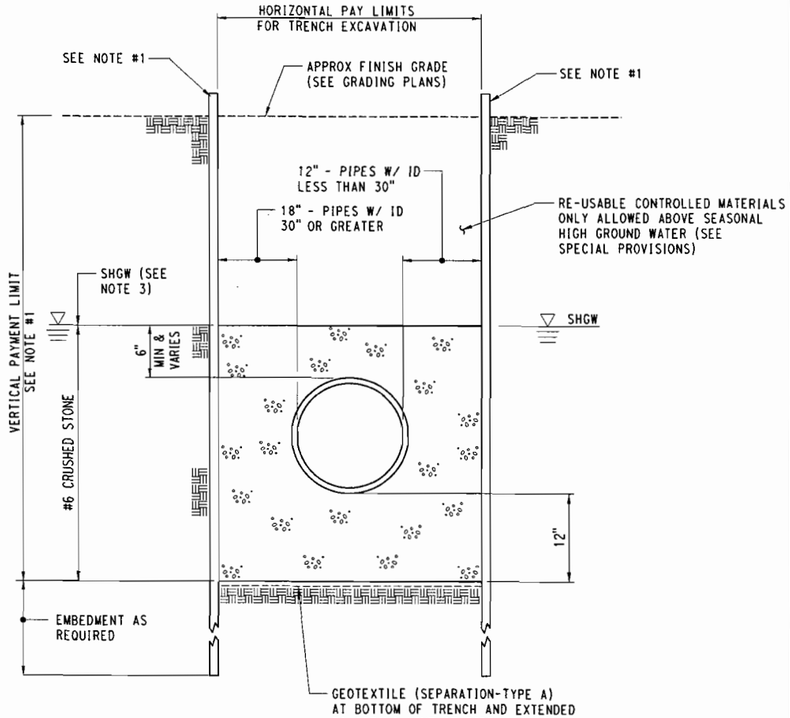
STORM DRAINAGE DETAILS



NOTES:

1. THE LIMIT OF THE TRENCH SHALL BE AS SHOWN IN TRENCH EXCAVATION DETAILS FOR EACH RESPECTIVE UTILITY.
2. THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT AT THE LIMITS OF PAVEMENT REPAIR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. SAWCUTTING, REMOVAL OF EXISTING PAVEMENT FROM TRENCH LIMITS TO LIMITS OF PAVEMENT REPAIR, SUPERPAVE, PROCESSED AGGREGATE AND SUBBASE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH RESPECTIVE ITEM. THE CLEANING AND APPLICATION OF TACK COAT TO THE EXISTING PAVEMENT SURFACES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND NOT MEASURED FOR PAVEMENT.

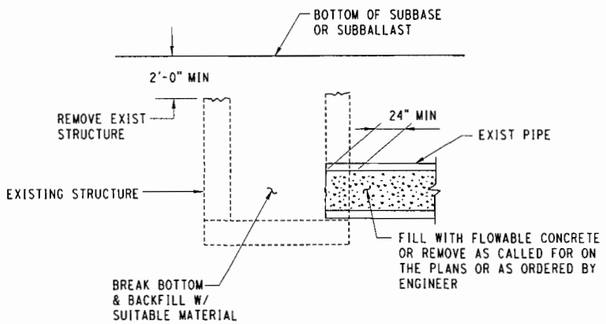
PAVEMENT REPAIR



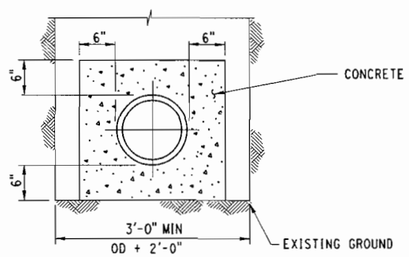
NOTES:

1. TEMPORARY STEEL SHEETING (RAILROAD), IF ADJACENT TO TRACK, SHALL BE SUBJECT TO AMTRAK REQUIREMENTS (EP3014, SPEC 02261A). AT ALL OTHER LOCATIONS WHERE NEEDED TO PROTECT ADJACENT FACILITIES OR WHERE NOTED ON PLANS, TEMPORARY EARTH RETAINING SYSTEM SHALL BE USED.
2. SHEET PILING SHALL BE DRIVEN DEEP ENOUGH BELOW THE BOTTOM OF TRENCH TO PREVENT WATER FROM ENTERING THE TRENCH FROM BELOW.
3. SEE DEWATERING SPECIAL PROVISIONS.
4. PLACE NO 6 CRUSHED STONE TO SEASONAL HIGH GROUND WATER.
5. CONCRETE WATERSTOPS SHALL BE PLACED EVERY 200 LINEAR FEET OR AS ORDERED BY ENGINEER WHERE GROUND MIGRATION IS ANTICIPATED.

STORM DRAIN PIPE TRENCH AND BEDDING DETAIL



ABANDON STRUCTURE & PLUG PIPE



NOTE:
PROVIDE CONCRETE ENCASEMENT AT ALL UTILITY PIPE 4" OR LARGER WHERE CALLED FOR ON THE PLANS.

CONCRETE ENCASEMENT DETAIL

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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CHECKED BY: AM
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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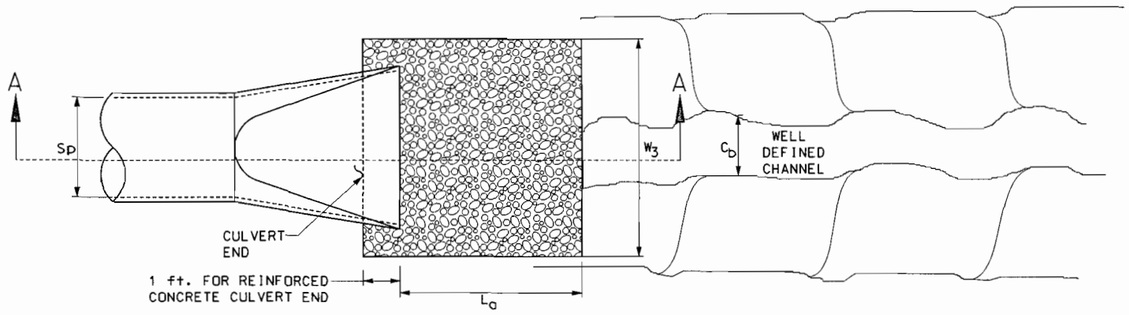
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

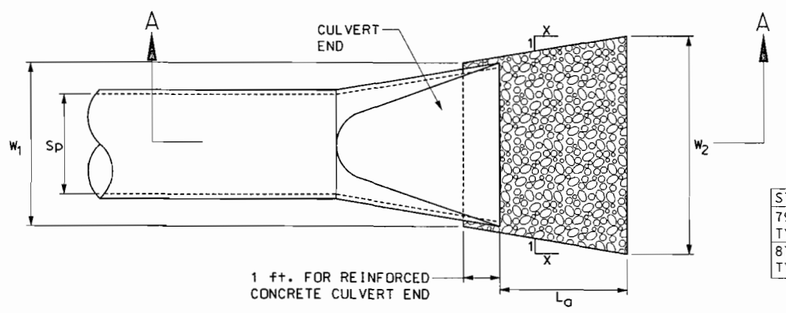
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: DRAINAGE MISCELLANEOUS DETAILS

PROJECT NO. 093-H052
DRAWING NO. MDS-02
SHEET NO. 15



CULVERT END PLAN VIEW

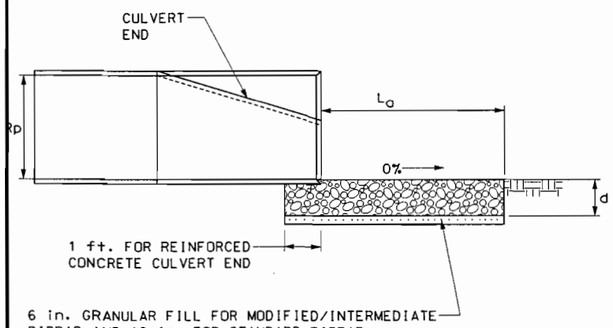


CULVERT END PLAN VIEW

LEGEND - TYPE A APRON

Sp - INSIDE PIPE DIAMETER
Rp - INSIDE PIPE DIAMETER
L_a - LENGTH OF RIPRAP MEASURED FROM CULVERT END SECTION
d - RIPRAP APRON THICKNESS
12" MODIFIED
18" INTERMEDIATE
36" STANDARD

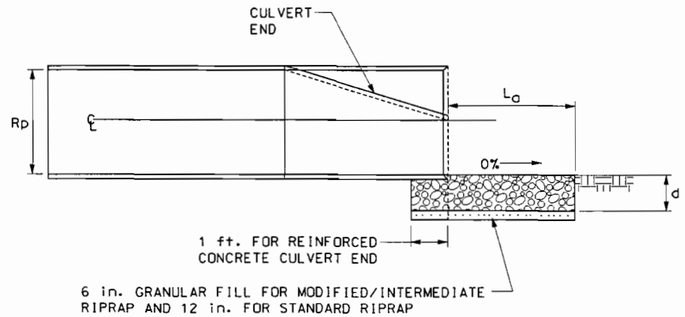
STATION	Sp = Rp	L_a	W_1	W_2	d
795+27.3, 35 RT TYPE A RIPRAP APRON	15"	10'	3'	10'	MODIFIED 12"
870+59, 137 RT TYPE A RIPRAP APRON	18"	12'	5'	13'	MODIFIED 12"



LEGEND - TYPE C APRON

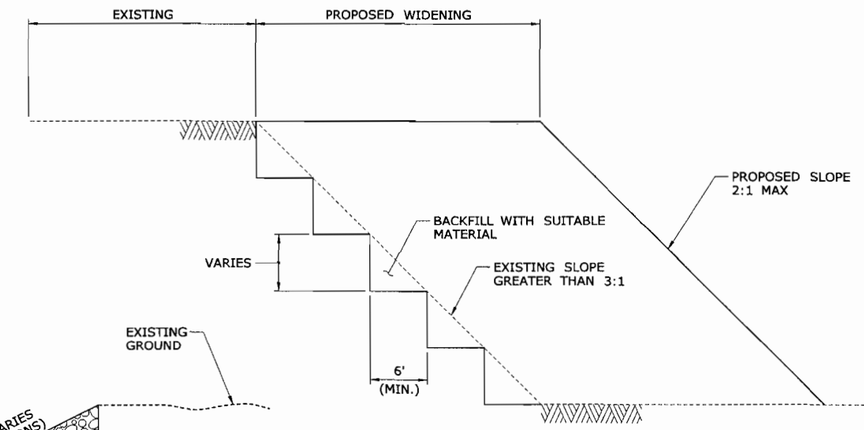
C_b = CHANNEL BOTTOM
TWE = TAIL WATER ELEVATION
Sp = Rp = INSIDE PIPE DIAMETER
L_a = LENGTH OF RIPRAP APRON
d = RIPRAP APRON THICKNESS
12" MODIFIED
18" INTERMEDIATE
36" STANDARD
W_3 = WIDTH OF APRON

STATION	Sp = Rp	L_a	W_3	d	C_b	TWE
840+18.3	12"	10'	10'	MODIFIED 12"	2'	0.74'
932+50	12"	10'	14'	MODIFIED 12"	2'	0.36'



SECTION A-A

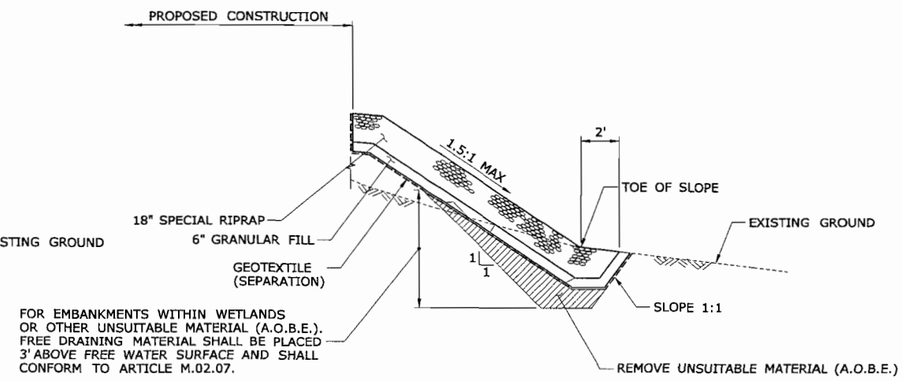
TYPE C RIPRAP APRON
NOT TO SCALE



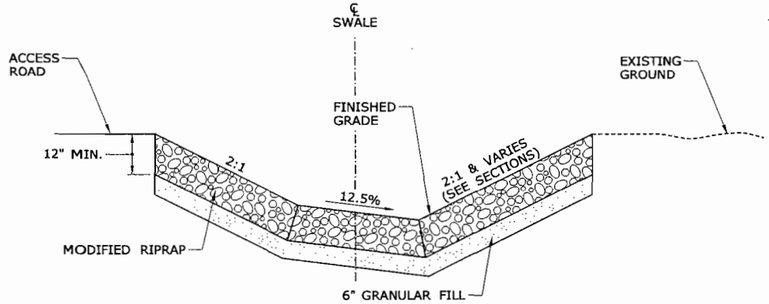
BENCHING DETAIL
NOT TO SCALE

SECTION A-A

TYPE A AND B RIPRAP APRON
NOT TO SCALE



SPECIAL RIPRAP FOR SLOPE PROTECTION DETAIL
NOT TO SCALE



MODIFIED RIPRAP SWALE
NOT TO SCALE

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: ALM/ALM
CHECKED BY: AM
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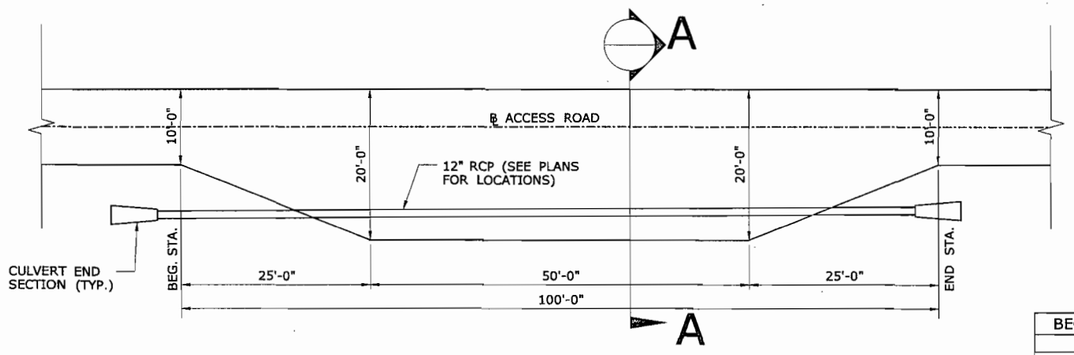
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Filename: ...\HW_MSH_093_H052_MDS-03.dgn

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: DRAINAGE MISCELLANEOUS DETAILS

PROJECT NO. 093-H052
DRAWING NO. MDS-03
SHEET NO. 16

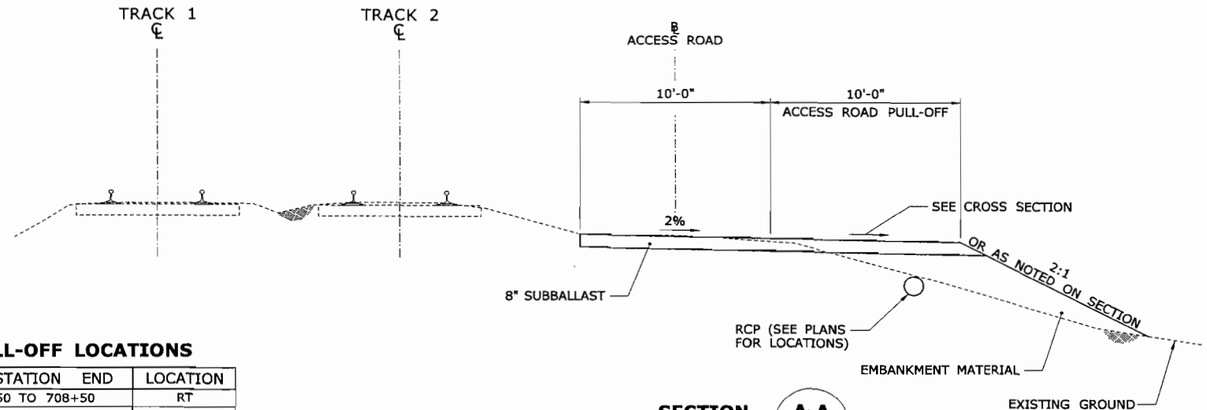


ACCESS ROAD PULL-OFF PLAN

NOT TO SCALE

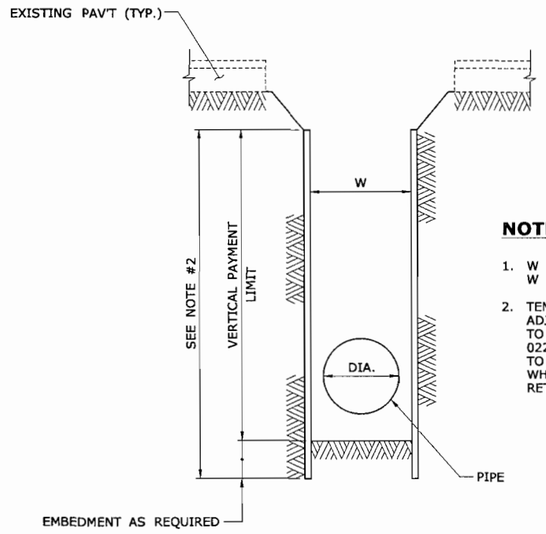
PULL-OFF LOCATIONS

BEG. STATION END	LOCATION
706+50 TO 708+50	RT
741+75 TO 743+75	RT
757+75 TO 758+75	RT
772+75 TO 773+75	RT
782+50 TO 783+50	RT
796+75 TO 798+15	RT
821+75 TO 882+75	RT
837+75 TO 839+25	RT
850+75 TO 851+75	RT
862+75 TO 863+75	RT
871+85 TO 872+10	RT
876+75 TO 877+75	RT
927+25 TO 928+25	RT



SECTION A-A

NOT TO SCALE



NOTES:

1. W = DIA. + 24" FOR DIA. LESS THAN 30"
   W = DIA. + 36" FOR DIA. 30" AND OVER
2. TEMPORARY STEEL SHEETING (RAILROAD), IF ADJACENT TO TRACK, SHALL BE SUBJECT TO AMTRAK REQUIREMENTS (EP3014, SPEC 02261A). AT ALL LOCATIONS WHERE NEEDED TO PROTECT ADJACENT FACILITIES OR WHERE NOTED ON PLANS, TEMPORARY EARTH RETAINING SYSTEM SHALL BE USED.

TYPICAL TRENCH EXCAVATION DETAIL

NOT TO SCALE

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_MDS-04.dgn

MICHAEL BAKER ENGINEERING, INC.

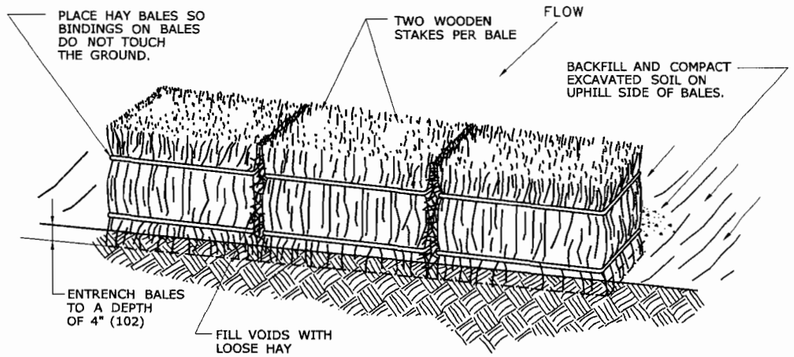
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
MISCELLANEOUS DETAILS

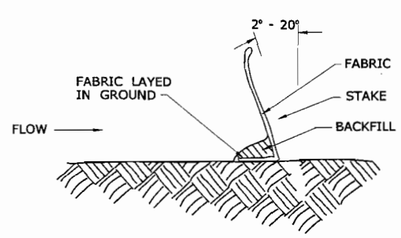
PROJECT NO. 093-H052
DRAWING NO. MDS-04
SHEET NO. 17



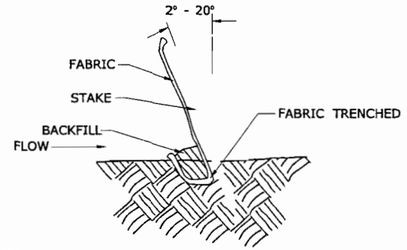
HAY BALE SYSTEM

GENERAL NOTES:

1. HAY BALES SHALL NOT BE USED IN A WATERCOURSE.
2. HAY BALES SHALL BE ENTRENCHED 4" (102) AND TIGHTLY BUTTED TOGETHER. REMOVE HEAVY BRUSH AND FILL ALL VOIDS WITH LOOSE HAY.
3. WOOD STAKES SHALL HAVE A MINIMUM CROSS-SECTION SIZE OF AT LEAST 1" (102) x 1" (102) AND MINIMUM LENGTH OF 4' (1219)
4. CLEAN OUT ACCUMULATED SEDIMENT WHEN ONE-HALF (1/2) OF THE ORIGINAL HEIGHT OF THE HAY BALE FENCE, AS INSTALLED, BECOMES FILLED WITH SEDIMENT OR AS DIRECTED BY THE ENGINEER.
5. NOT TO BE USED IN THE VICINITY OF URBAN AND RESIDENTIAL AREAS.



BACKFILLING GEOTEXTILE TOE



TRENCHING GEOTEXTILE TOE

END VIEW

GEOTEXTILE FENCE SYSTEM

GENERAL NOTES:

1. GEOTEXTILE FENCE SHOULD BE PLACED SO THE FENCE LEANS TOWARD THE SOURCE OF SEDIMENT.
2. MAXIMUM SPACING FOR WOODEN STAKES OR STEEL POSTS IS 10.0' (3048).
3. WOOD STAKES SHALL HAVE A MINIMUM CROSS-SECTION SIZE OF 1.5" (457) X 1.5" (457) AND MINIMUM LENGTH OF 4' (1219) STEEL POSTS SHALL BE AT LEAST 0.5 LB. PER FOOT (0.22KG PER CM) WITH A MINIMUM LENGTH OF 4' (1219).
4. WOODEN STAKES OR STEEL POSTS SHALL BE DRIVEN TO A MINIMUM OF 1' (305) INTO THE GROUND.
5. 6" (152) OF GEOTEXTILE SHALL BE BURIED BY BACKFILLING OR TRENCHING AND AT LEAST 2.5' (762) IN HEIGHT OF GEOTEXTILE SHALL BE EXPOSED.
6. FABRIC SHALL BE JOINED ONLY AT A SUPPORT POST WITH A MINIMUM OF 6" (152) OVERLAP AND SECURITY SEALED.
7. UPON RE-ESTABLISHMENT OF GROUND COVER IN DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER, OR UPON FINAL INSPECTION FENCE AND ANY SEDIMENT SHALL BE REMOVED. AT NO TIME WILL THE FENCE REMAIN IN PLACE AFTER PROJECT COMPLETION.
8. GEOTEXTILE FENCE SHALL NOT BE USED IN A WATER COURSE.
9. ONLY GEOTEXTILE FROM THE DEPARTMENTS APPROVED PRODUCT LIST SHALL BE USED.
10. BACKFILLING OF GEOTEXTILE SHALL ONLY BE USED WHEN GROUND IS FROZEN OR WHERE OTHER OBSTRUCTIONS ARE ENCOUNTERED THAT PROHIBIT TRENCHING, IE, STUMPS OR ROCKS.
11. CLEAN OUT ACCUMULATED SEDIMENT WHEN ONE-HALF (1/2) OF THE ORIGINAL HEIGHT OF THE GEOTEXTILE FENCE, AS INSTALLED, BECOMES FILLED WITH SEDIMENT OR AS DIRECTED BY THE ENGINEER.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: ALM/ALM
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NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_MDS-12.dgn

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

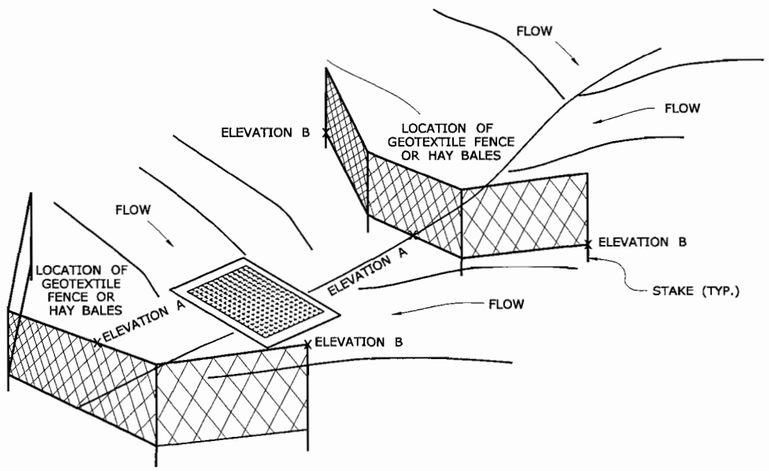
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: E&S MISCELLANEOUS DETAILS

PROJECT NO. 093-H052
DRAWING NO. MDS-12
SHEET NO. 25

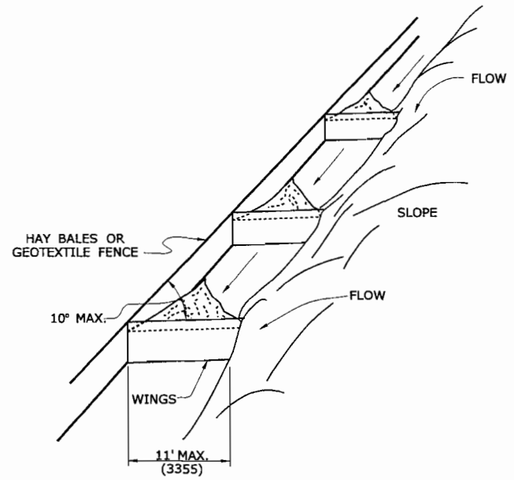
GENERAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN THE EARTHEN BERM AS DIRECTED BY THE ENGINEER.
2. WHEN USING A SEDIMENTATION CONTROL SYSTEM ALONG THE TOE OF SLOPE, ADD WINGS TO PREVENT SEDIMENT FROM MOVING ALONG THE FENCE AND OFF THE SITE. MINIMUM SPACING FOR WINGS IS 25' (7620).
3. *CATCH BASIN ON SLOPE SHOULD NOT BE RINGED.* THE SPACING OF SEDIMENTATION CONTROL SYSTEM SHALL VARY WITH SLOPE.
4. ELEVATION B = A + 12" (305) MIN.



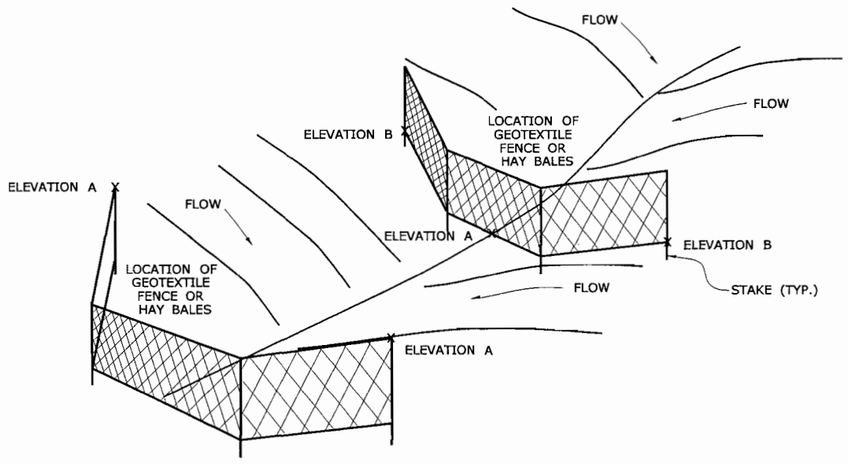
TREATMENT FOR A CATCH BASIN ON A SLOPE

(SEE NOTE 4)



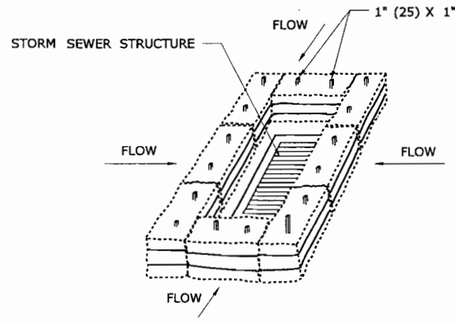
TREATMENT AT TOE OF SLOPE

(SEE NOTE 3)

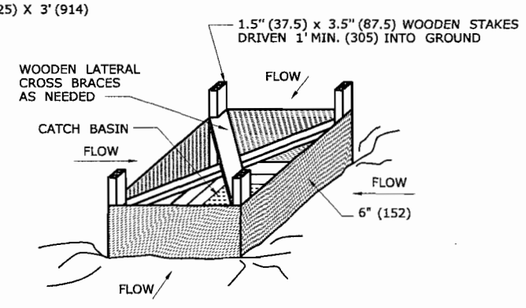


CHECK DAM

(SEE NOTE 4)



HAY BALE AT CATCH BASIN



GEOTEXTILE FENCE AT CATCH BASIN

TREATMENT FOR A CATCH BASIN IN A DEPRESSION

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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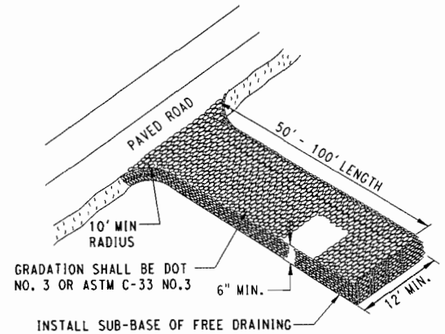
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

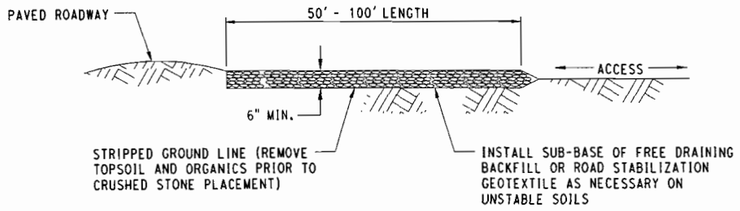
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

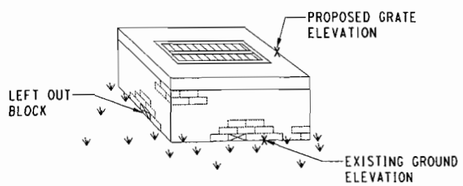
DRAWING TITLE: E&S MISCELLANEOUS DETAILS

PROJECT NO. 093-H052
DRAWING NO. MDS-13
SHEET NO. 26





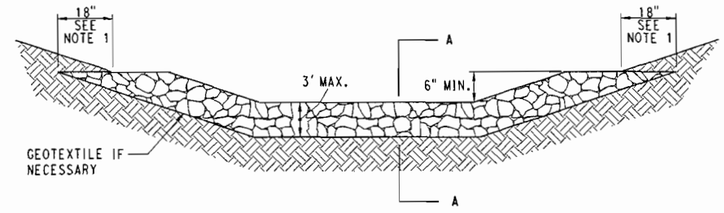
TYPICAL CONSTRUCTION ENTRANCE
PAY ITEM: ANTI-TRACKING PAD



NOTES:

1. CONSTRUCT CATCH BASINS LEAVING ONE (1) BLOCK OUT PER SIDE AT EXISTING GROUND ELEVATION TO ALLOW WATER TO ENTER.
2. IF GROUND WITHIN A CATCH BASIN'S WATERSHED BECOMES DISTURBED AND THE CATCH BASIN WILL NOT BE BACKFILLED TO TOP OF GRATE ELEVATION FOR AT LEAST EIGHT (8) HOURS, INSTALL SEDIMENTATION CONTROL SYSTEM FOR CATCH BASIN.
3. INSTALL LEFT OUT BLOCKS NOT SOONER THAN TWO (2) HOURS PRIOR TO BACKFILLING AROUND CATCH BASIN.
4. IMMEDIATELY AFTER PLACING FILL, INSTALL SEDIMENTATION CONTROL SYSTEMS.

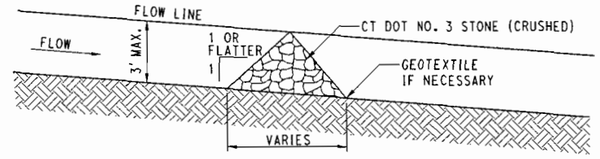
TREATMENT FOR A CATCH BASIN IN A DEPRESSION
SHORT TERM ALTERNATIVE



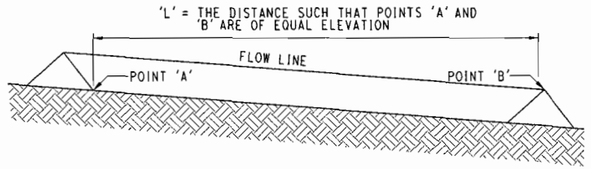
STONE CHECK DAM
VIEW LOOKING UPSTREAM
(NOT TO SCALE)

NOTES:

1. KEY STONE INTO THE DITCH BANKS AND EXTEND INTO THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW FROM FLANKING CHECK DAM.
2. THE MINIMUM DESIGN CAPACITY SHALL CONVEY A 2 YEAR - 24 HOUR PEAK FLOW.



SECTION A-A
(NOT TO SCALE)



SPACING BETWEEN CHECK DAMS
(NOT TO SCALE)

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

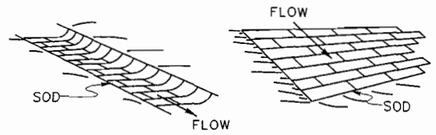
DRAWING TITLE:
E&S MISCELLANEOUS DETAILS

PROJECT NO. 093-H052
DRAWING NO. MDS-14
SHEET NO. 27

MISCELLANEOUS DETAILS

EROSION AND SEDIMENTATION CONTROL DETAILS

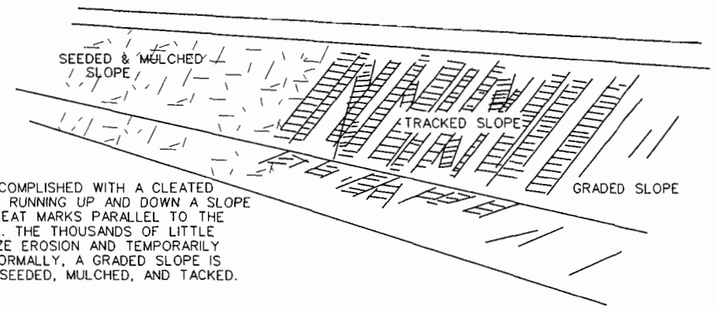
NOT TO SCALE



SWALE SLOPE

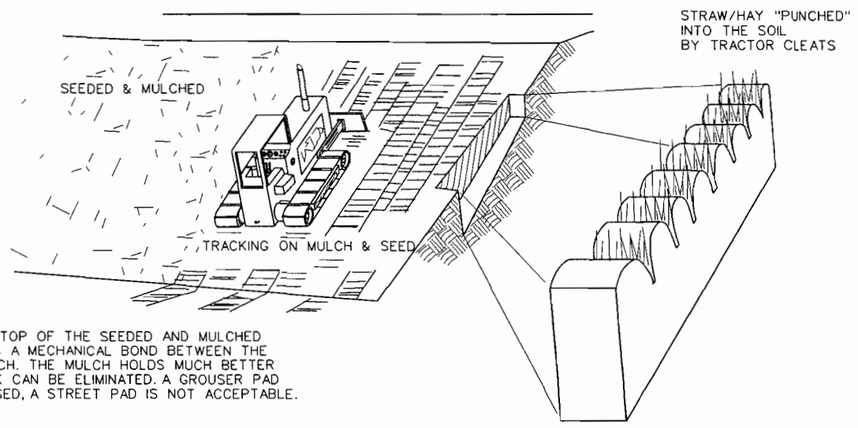
PLACE RECTANGULAR SOD STRIPS SO THE LONG DIMENSION IS PERPENDICULAR TO THE FLOW. TRIM EDGES, IF NECESSARY, TO ASSURE TIGHT JOINTS. SOD MAY HAVE TO BE ANCHORED BY STAKES OR STAPLES ON STEEP SLOPES.

SODDING ON SLOPES AND SWALES



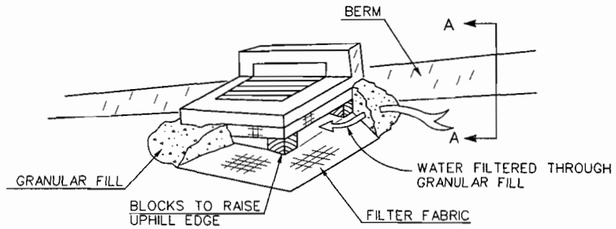
TRACKING IS ACCOMPLISHED WITH A CLEATED TRACTOR/DOZER RUNNING UP AND DOWN A SLOPE LEAVING THE CLEAT MARKS PARALLEL TO THE SLOPE CONTOUR. THE THOUSANDS OF LITTLE GROOVES MINIMIZE EROSION AND TEMPORARILY HOLD WATER. NORMALLY, A GRADED SLOPE IS TRACKED, THEN SEEDED, MULCHED, AND TACKED.

TRACKING PLAN

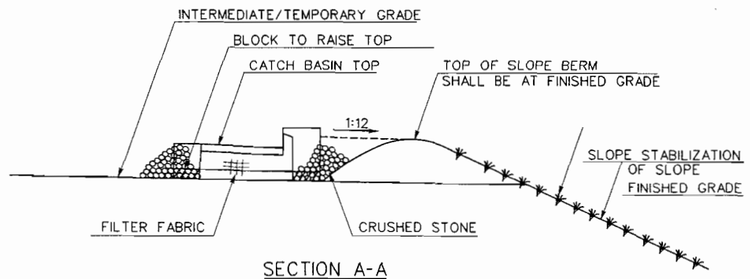


TRACKING ON TOP OF THE SEEDED AND MULCHED AREA CREATES A MECHANICAL BOND BETWEEN THE SOIL AND MULCH. THE MULCH HOLDS MUCH BETTER AND THE TACK CAN BE ELIMINATED. A GROUSER PAD SHOULD BE USED, A STREET PAD IS NOT ACCEPTABLE.

TRACKING ON MULCH



PLAN



SECTION A-A

NOTE: THE CONTRACTOR SHALL MAINTAIN THE EARTHEN BERM AS DIRECTED BY THE ENGINEER.

EROSION CONTROL BERM

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_MDS-15.dgn

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

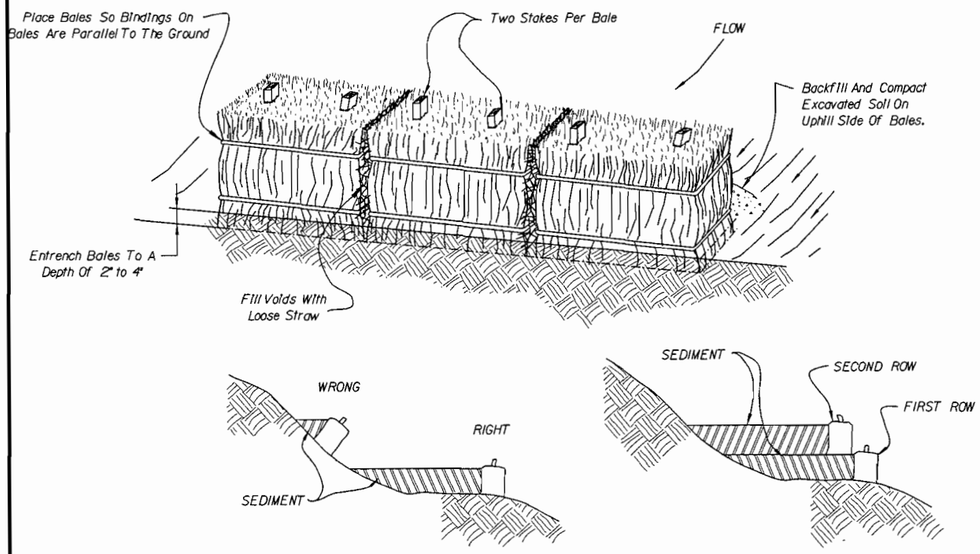
DRAWING TITLE: E&S MISCELLANEOUS DETAILS

PROJECT NO. 093-H052
DRAWING NO. MDS-15
SHEET NO. 28

MISCELLANEOUS DETAILS

EROSION AND SEDIMENTATION CONTROL DETAILS

NOT TO SCALE



INSTALLATION

A) *Ideally, Bales Should Be Entrenched 2" To 4" And Tightly Butted Together. Bales Can Be Successfully Placed Without A Trench If Good Ground Contact Is Made. Remove Heavy Brush And Fill All Voids With Loose Straw.*

B) *Bales Shall Be Only Used As A Temporary Barrier And For No Longer Than 60 Days. They Shall Not Be Used On A Job Adjacent To A Residential Neighborhood, Residences Or Adjacent To Or In A Watercourse.*

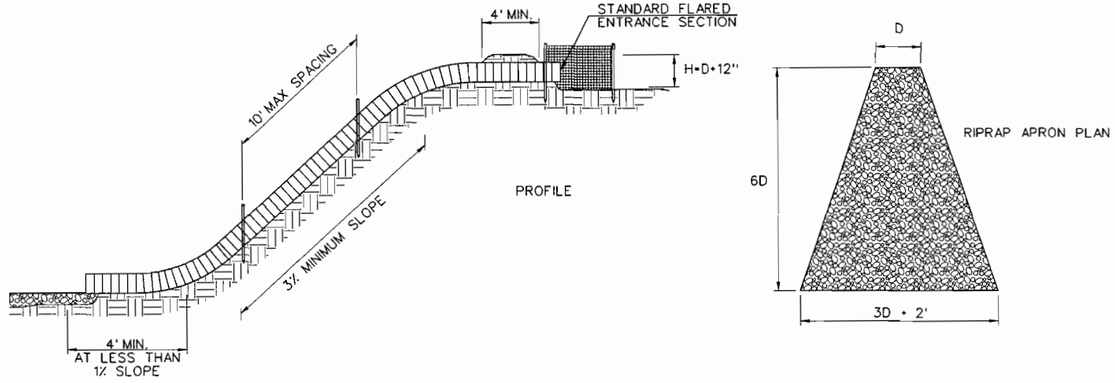
C) *When Sedimentation Deposits Reach Within 3" Of The Top Of Bales, Remove Sedimentation Or Add Additional Bales On Sedimentation Directly Behind First Row Of Bales As Directed By Engineer.*

D) *Upon Establishment Of Ground Cover On Disturbed Areas And When Directed By Engineer, Hay Bales Will Be Removed And Used As Mulch. Any Sedimentation Will Be Thinly Spread Upon Established Ground Cover.*

PREFERRED PLACEMENT

Bales Placed Away From Toe Of Slope Have A Larger Confinement Area. Additional Bales Should Be Added Behind Original Bales Before Sedimentation Tops The First Bales.

DIKES HAY/STRAW BALES



1. THE PIPE SLOPE DRAIN SHALL HAVE A SLOPE OF 3% OR STEEPER.
2. TOP OF THE EARTH DIKE OVER THE INLET PIPE AND ALL DIKES CARRYING WATER TO THE PIPE SHALL BE AT LEAST 1 FOOT HIGHER THAN THE TOP OF THE PIPE.
3. ADD 0.3 FOOT TO DIKE HEIGHT FOR SETTLEMENT.
4. SOIL AROUND AND UNDER THE SLOPE PIPE SHALL BE HAND TEMPERED IN 4-INCH LIFTS.
5. THE PIPE SHALL BE PLASTIC OR CORRUGATED METAL PIPE WITH WATERTIGHT 12-INCH WIDE CONNECTING BANDS OR FLANGE CONNECTIONS.
6. PIPE ANCHORS TO BE PLACED AT 10-FOOT MAXIMUM SPACING.
7. RIPRAP TO BE 6 INCHES IN A LAYER AT LEAST 12 INCHES AND PRESSED INTO THE SOIL.
8. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

SLOPE DRAIN

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: ALM/ALM
CHECKED BY: AM
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_MDS-16.dgn

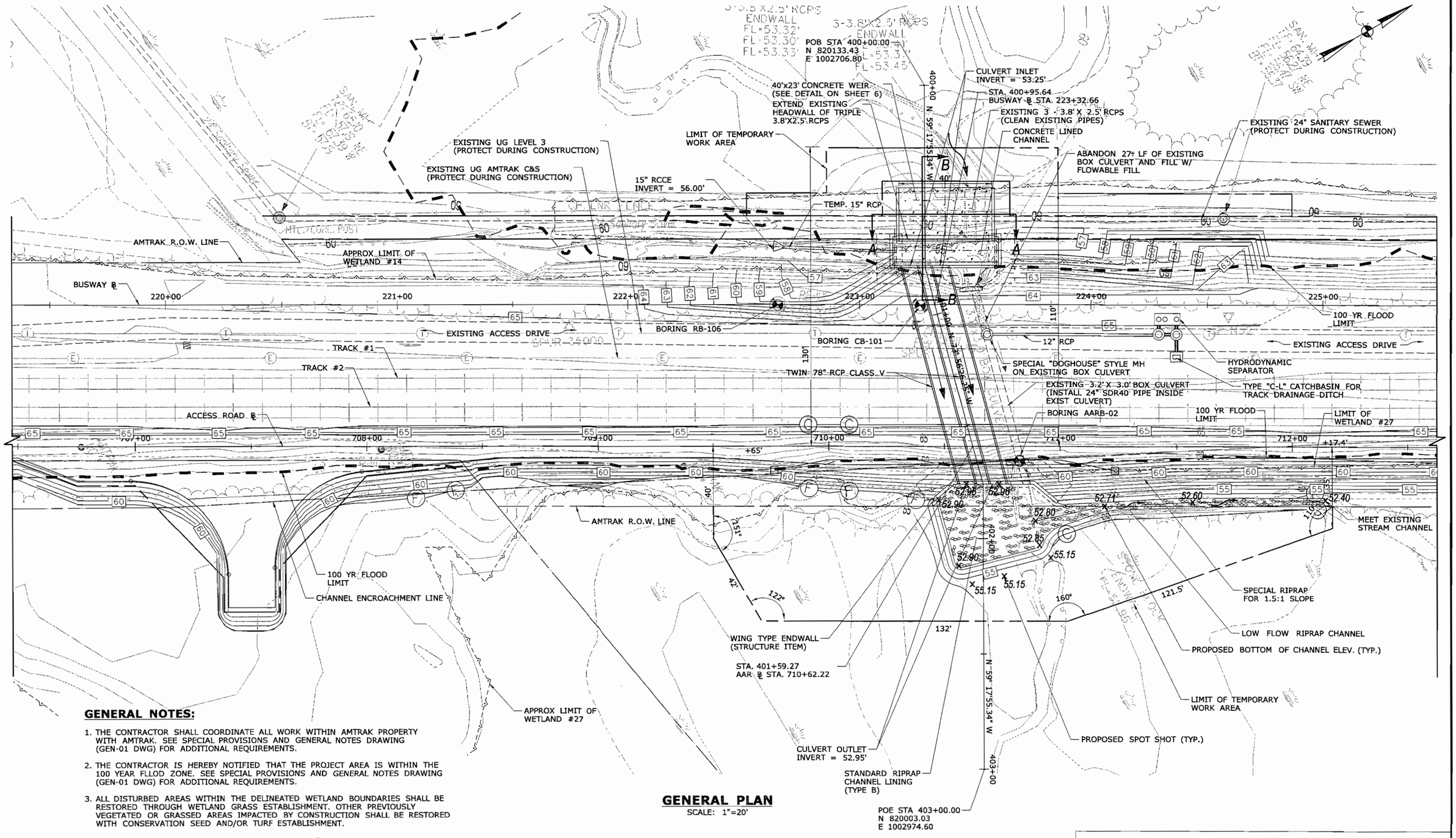
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: E&S MISCELLANEOUS DETAILS

PROJECT NO. 093-H052
DRAWING NO. MDS-16
SHEET NO. 29



GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN AMTRAK PROPERTY WITH AMTRAK. SEE SPECIAL PROVISIONS AND GENERAL NOTES DRAWING (GEN-01 DWG) FOR ADDITIONAL REQUIREMENTS.
2. THE CONTRACTOR IS HEREBY NOTIFIED THAT THE PROJECT AREA IS WITHIN THE 100 YEAR FLLOD ZONE. SEE SPECIAL PROVISIONS AND GENERAL NOTES DRAWING (GEN-01 DWG) FOR ADDITIONAL REQUIREMENTS.
3. ALL DISTURBED AREAS WITHIN THE DELINEATED WETLAND BOUNDARIES SHALL BE RESTORED THROUGH WETLAND GRASS ESTABLISHMENT. OTHER PREVIOUSLY VEGETATED OR GRASSED AREAS IMPACTED BY CONSTRUCTION SHALL BE RESTORED WITH CONSERVATION SEED AND/OR TURF ESTABLISHMENT.

GENERAL PLAN

SCALE: 1"=20'

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

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Plotted: $DATE$

DESIGNER/DRAFTER: PB-CF/PB-CF
CHECKED BY: ALM
SCALE IN FEET 0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.

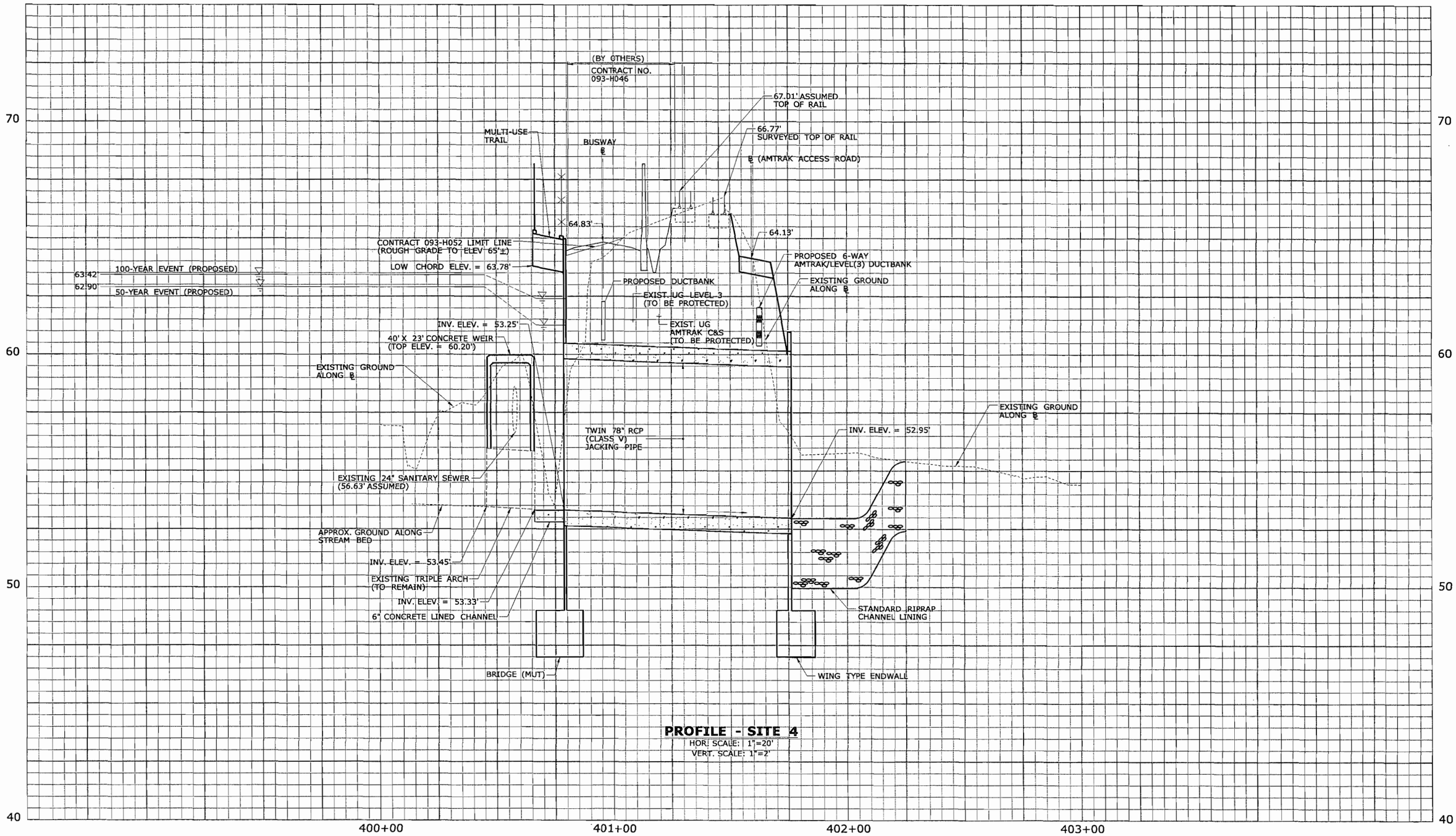
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SITE 4 GENERAL PLAN

PROJECT NO. 093-H052
DRAWING NO.
SHEET NO.



PROFILE - SITE 4

HOR. SCALE: 1"=20'
VERT. SCALE: 1"=2'

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS *IN NO WAY WARRANTED TO INDICATE* THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: PB-CJF/PB-CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 20 40
VERT. SCALE IN FEET 0 2 4

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_MDS-SITE 4 PROFILE.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SITE 4 - PROFILE

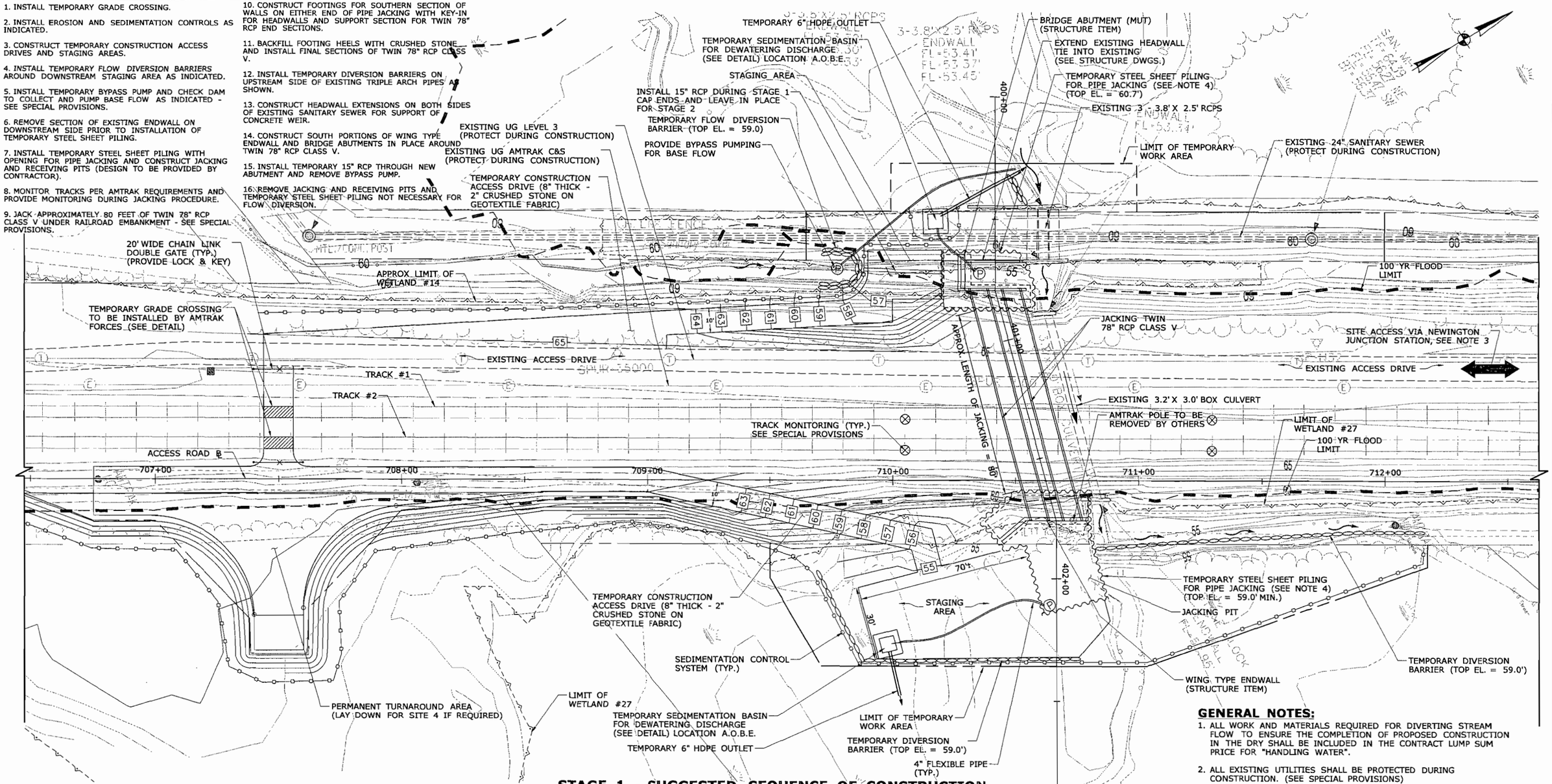
PROJECT NO. 093-H052

DRAWING NO.

SHEET NO. 3

STAGE 1 SUGGESTED SEQUENCE OF CONSTRUCTION:

1. INSTALL TEMPORARY GRADE CROSSING.
2. INSTALL EROSION AND SEDIMENTATION CONTROLS AS INDICATED.
3. CONSTRUCT TEMPORARY CONSTRUCTION ACCESS DRIVES AND STAGING AREAS.
4. INSTALL TEMPORARY FLOW DIVERSION BARRIERS AROUND DOWNSTREAM STAGING AREA AS INDICATED.
5. INSTALL TEMPORARY BYPASS PUMP AND CHECK DAM TO COLLECT AND PUMP BASE FLOW AS INDICATED - SEE SPECIAL PROVISIONS.
6. REMOVE SECTION OF EXISTING ENDWALL ON DOWNSTREAM SIDE PRIOR TO INSTALLATION OF TEMPORARY STEEL SHEET PILING.
7. INSTALL TEMPORARY STEEL SHEET PILING WITH OPENING FOR PIPE JACKING AND CONSTRUCT JACKING AND RECEIVING PITS (DESIGN TO BE PROVIDED BY CONTRACTOR).
8. MONITOR TRACKS PER AMTRAK REQUIREMENTS AND PROVIDE MONITORING DURING JACKING PROCEDURE.
9. JACK APPROXIMATELY 80 FEET OF TWIN 78" RCP CLASS V UNDER RAILROAD EMBANKMENT - SEE SPECIAL PROVISIONS.
10. CONSTRUCT FOOTINGS FOR SOUTHERN SECTION OF WALLS ON EITHER END OF PIPE JACKING WITH KEY-IN FOR HEADWALLS AND SUPPORT SECTION FOR TWIN 78" RCP END SECTIONS.
11. BACKFILL FOOTING HEELS WITH CRUSHED STONE AND INSTALL FINAL SECTIONS OF TWIN 78" RCP CLASS V.
12. INSTALL TEMPORARY DIVERSION BARRIERS ON UPSTREAM SIDE OF EXISTING TRIPLE ARCH PIPES AS SHOWN.
13. CONSTRUCT HEADWALL EXTENSIONS ON BOTH SIDES OF EXISTING SANITARY SEWER FOR SUPPORT OF CONCRETE WEIR.
14. CONSTRUCT SOUTH PORTIONS OF WING TYPE ENDWALL AND BRIDGE ABUTMENTS IN PLACE AROUND TWIN 78" RCP CLASS V.
15. INSTALL TEMPORARY 15" RCP THROUGH NEW ABUTMENT AND REMOVE BYPASS PUMP.
16. REMOVE JACKING AND RECEIVING PITS AND TEMPORARY STEEL SHEET PILING NOT NECESSARY FOR FLOW DIVERSION.



STAGE 1 - SUGGESTED SEQUENCE OF CONSTRUCTION

SCALE: 1"=20'

TABLE 3-1

DRAINAGE AREA (SQ. MILE)	0.54	
DESIGN FREQUENCY YEAR	100	
DESIGN DISCHARGE (CFS)	699	
	AMTRAK CULVERT	MDC SEWER LINE
AVERAGE DAILY FLOW ELEVATION (FT)	53.25*	53.5*
UPSTREAM DESIGN WATER SURFACE ELEVATION (FT)	62.3	63.4
DOWNSTREAM DESIGN WATER SURFACE ELEVATION (FT)	57.6	62.3

* ESTIMATED

TABLE 3-3

AVERAGE DAILY FLOW (CFS)	1
AVERAGE SPRING FLOW (CFS)	2
2-YEAR FREQUENNCY DISCHARGE * (CFS)	88
TEMPORARY DESIGN DISCHARGE (CFS)	88
TEMPORARY DESIGN FREQUENCY YEAR	2
TEMPORARY WATER SURFACE ELEV. UPSTREAM (FT)	AMTRAK CULVERT =60.7
TEMPORARY WATER SURFACE ELEV. DOWNSTREAM (FT)	NONE FOR 2-YR STORM

* ESTIMATED

GENERAL NOTES:

1. ALL WORK AND MATERIALS REQUIRED FOR DIVERTING STREAM FLOW TO ENSURE THE COMPLETION OF PROPOSED CONSTRUCTION IN THE DRY SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR "HANDLING WATER".
2. ALL EXISTING UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION. (SEE SPECIAL PROVISIONS)
3. CONSTRUCTION ACCESS TO SITE 4 SHALL BE VIA NEWINGTON JUNCTION STATION.
4. TEMPORARY STEEL SHEET PILING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "JACKING TWIN 78" RCP CLASS V". TEMPORARY SHEET PILING SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "JACKING TWIN 78" RCP CLASS V".
5. THE CONTRACTOR MAY NOT WORK OUTSIDE THE LIMITS OF THE TEMPORARY WORK AREA.

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: PB-CJF/PB-CJF
CHECKED BY: ALM
SCALE IN FEET 0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SITE 4 - STAGE 1

PROJECT NO. 093-H052
DRAWING NO.
SHEET NO. 4

STAGE 2 SUGGESTED SEQUENCE OF CONSTRUCTION:

1. MAINTAIN OR REMOVE STAGE 1 EROSION CONTROL MEASURES AS REQUIRED. INSTALL ADDITIONAL EROSION & SEDIMENTATION CONTROLS AS INDICATED.

2. MAINTAIN AND REPAIR EXISTING ACCESS DRIVES AND STAGING AREAS FROM STAGE 1. CONSTRUCT ADDITIONAL TEMPORARY CONSTRUCTION ACCESS DRIVES AND STAGING AREAS AS INDICATED ON PLAN.

3. CONSTRUCT LOW-FLOW RIPRAP CHANNEL PARALLEL WITH EXISTING GRASSED SWALE ON DOWNSTREAM SIDE. PROVIDE ADDITIONAL FLOW DIVERSION BARRIERS, IF NECESSARY (NOT SHOWN), DURING EXCAVATION OF NEW CHANNEL.

4. INSTALL STANDARD RIPRAP CHANNEL LINING DOWNSTREAM PRIOR TO OPENING TWIN 78" RCP FOR USE.

5. INSTALL STAGE 2 TEMPORARY FLOW DIVERSION BARRIERS AS INDICATED AND REMOVE REMAINING STAGE 1 TEMPORARY STEEL SHEET PILING AND FLOW DIVERSION BARRIERS.

6. DIVERT UPSTREAM FLOWS TO NEW TWIN 78" RC PIPES.

7. REMOVE EXISTING UPSTREAM CULVERT HEADWALL. REMOVE PORTION OF CULVERT IF NECESSARY AND CAP EXISTING CULVERT END.

8. INSTALL DOGHOUSE MANHOLE ON EXISTING BOX CULVERT AS SHOWN, CAP WESTERN SECTION FROM MANHOLE WALL TO UPSTREAM END OF CULVERT AND FILL SECTION WITH FLOWABLE FILL.

9. REMOVE DOWNSTREAM HEADWALL AND INSTALL 24" PVC PIPE IN EASTERN SECTION OF EXISTING BOX CULVERT FROM NEW HEADWALL TO DOGHOUSE MANHOLE.

10. INSTALL TEMPORARY STEEL SHEET PILING AS INDICATED.

11. CONSTRUCT REMAINING PORTION OF WALL FOOTINGS, WING TYPE ENDWALL, BRIDGE ABUTMENT AND SUPERSTRUCTURE.

12. CONSTRUCT CONCRETE WEIR ACROSS SANITARY SEWER BERM FROM HEADWALL TO HEADWALL.13. RELOCATE FLOW DIVERSION BARRIER ON UPSTREAM END OF EXISTING TRIPLE ARCH PIPES TO BLOCK FLOW AND PROVIDE BYPASS PUMP FOR BASE FLOW TO NEW 78" RCP. POUR 6" CONCRETE LINED CHANNEL AND REMOVE DIVERSION BARRIER AND PUMP WHEN CURED.

14. REMOVE TEMPORARY STEEL SHEET PILING AND DIVERSION BARRIERS, BACKFILL WALLS AND ABUTMENTS.

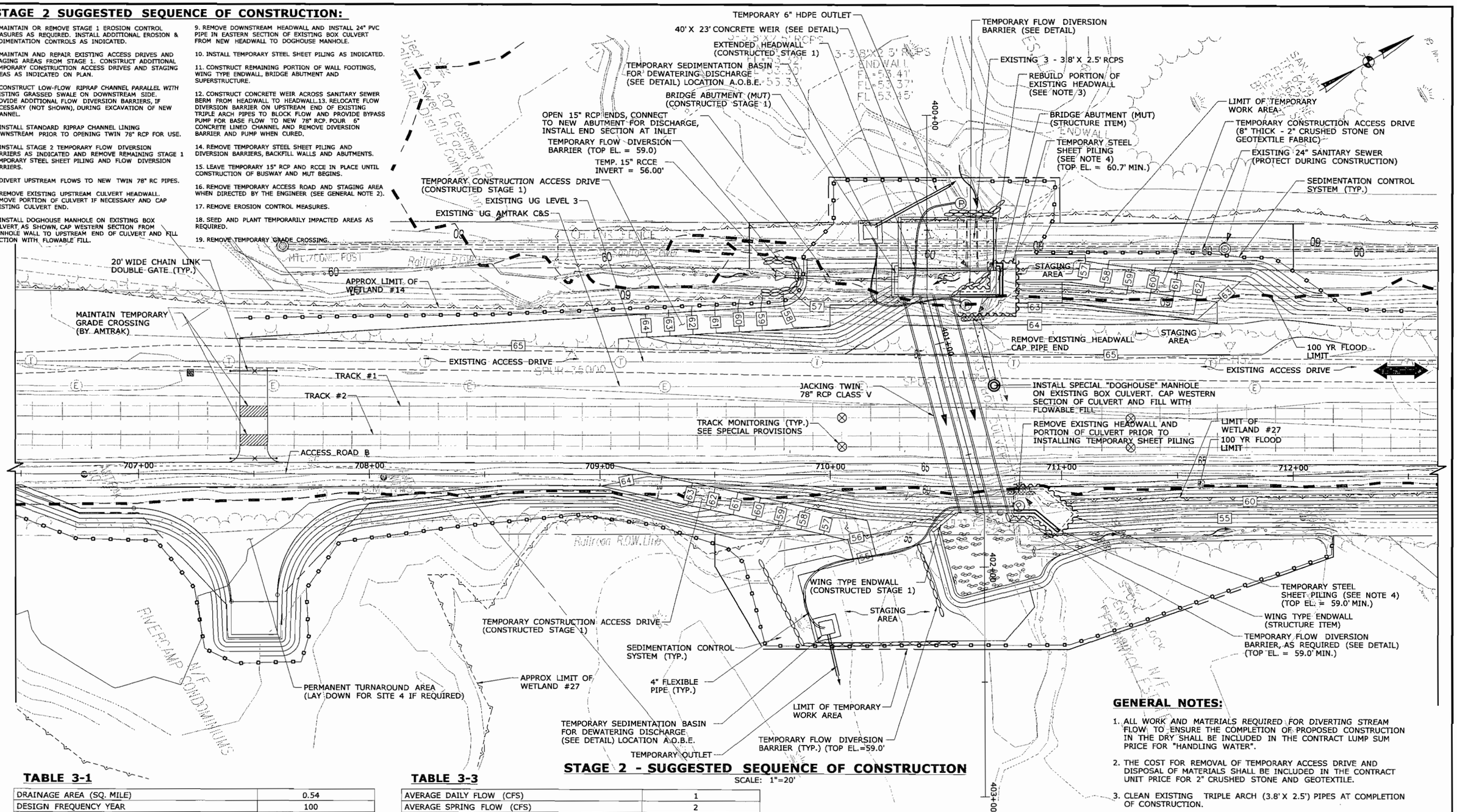
15. LEAVE TEMPORARY 15" RCP AND RCCE IN PLACE UNTIL CONSTRUCTION OF BUSWAY AND MUT BEGINS.

16. REMOVE TEMPORARY ACCESS ROAD AND STAGING AREA WHEN DIRECTED BY THE ENGINEER (SEE GENERAL NOTE 2).

17. REMOVE EROSION CONTROL MEASURES.

18. SEED AND PLANT TEMPORARILY IMPACTED AREAS AS REQUIRED.

19. REMOVE TEMPORARY GRADE CROSSING.



STAGE 2 - SUGGESTED SEQUENCE OF CONSTRUCTION

SCALE: 1"=20'

TABLE 3-1

DRAINAGE AREA (SQ. MILE)	0.54	
DESIGN FREQUENCY YEAR	100	
DESIGN DISCHARGE (CFS)	699	
	AMTRAK CULVERT	MDC SEWER LINE
AVERAGE DAILY FLOW ELEVATION (FT)	53.25*	53.5*
UPSTREAM DESIGN WATER SURFACE ELEVATION (FT)	62.3	63.4
DOWNSTREAM DESIGN WATER SURFACE ELEVATION (FT)	57.6	62.3

* ESTIMATED

TABLE 3-3

AVERAGE DAILY FLOW (CFS)	1
AVERAGE SPRING FLOW (CFS)	2
2-YEAR FREQUENNCY DISCHARGE (CFS)	88
TEMPORARY DESIGN DISCHARGE (CFS)	88
TEMPORARY DESIGN FREQUENCY YEAR	2
TEMPORARY WATER SURFACE ELEV. UPSTREAM (FT)	AMTRAK CULVERT =60.7
TEMPORARY WATER SURFACE ELEV. DOWNSTREAM (FT)	NONE FOR 2-YR STORM

GENERAL NOTES:

1. ALL WORK AND MATERIALS REQUIRED FOR DIVERTING STREAM FLOW TO ENSURE THE COMPLETION OF PROPOSED CONSTRUCTION IN THE DRY SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR "HANDLING WATER".
2. THE COST FOR REMOVAL OF TEMPORARY ACCESS DRIVE AND DISPOSAL OF MATERIALS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR 2" CRUSHED STONE AND GEOTEXTILE.
3. CLEAN EXISTING TRIPLE ARCH (3.8' X 2.5') PIPES AT COMPLETION OF CONSTRUCTION.
4. TEMPORARY STEEL SHEET PILING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "JACKING TWIN 78" RCP CLASS V". TEMPORARY SHEET PILING SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "JACKING TWIN 78" RCP CLASS V".

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: PB-CJF/PB-CJF
CHECKED BY: ALM
SCALE IN FEET 0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.

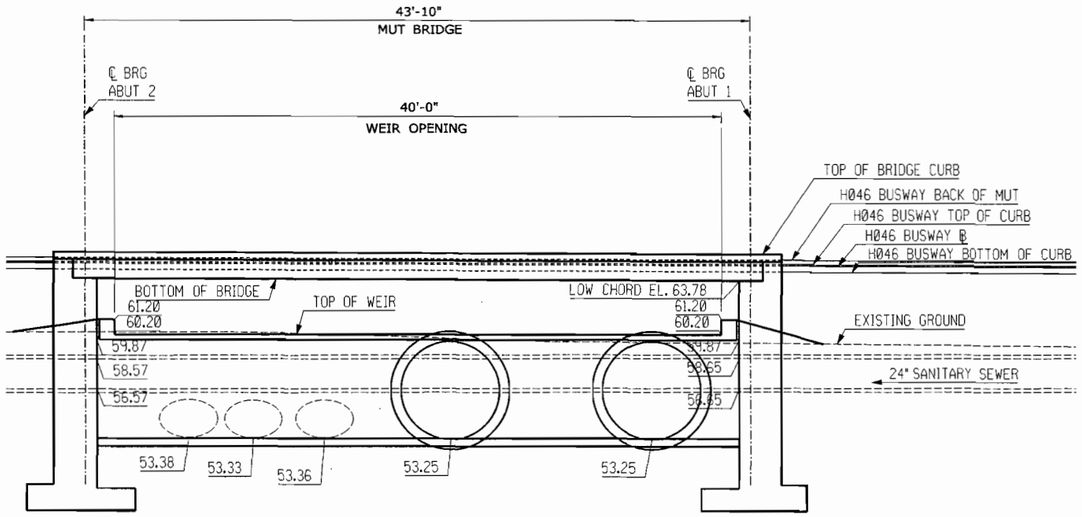
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

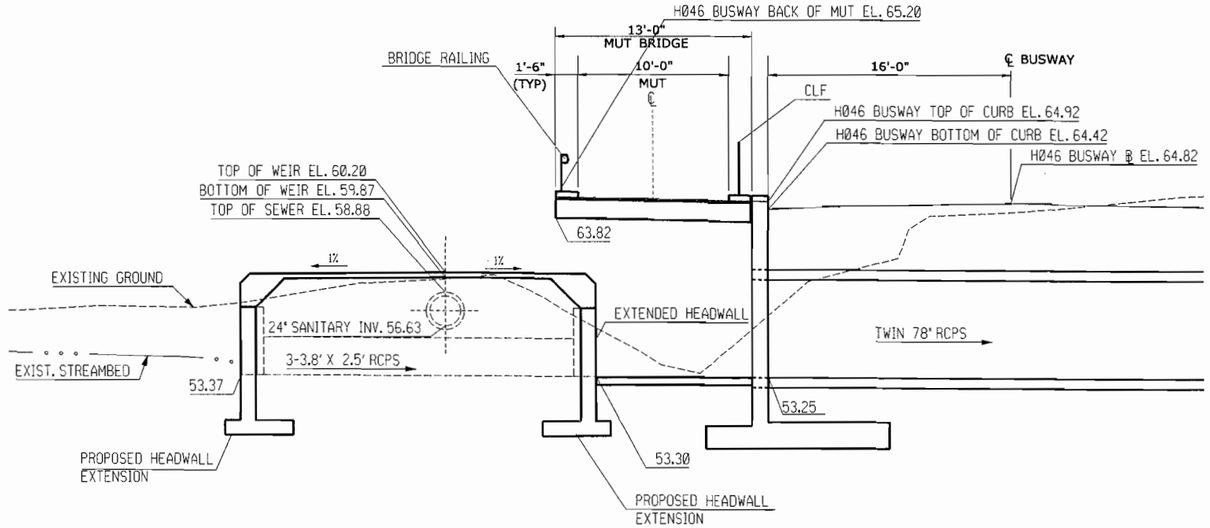
DRAWING TITLE: SITE 4 - STAGE 2

PROJECT NO. 093-H052
DRAWING NO.
SHEET NO. 5



CONCRETE WEIR SECTION **A-A**

SCALE: 1" = 5'



HEADWALL SECTION **B-B**

SCALE: 1" = 5'

GENERAL NOTES:

1. SEE SHEET 2 FOR LOCATION ON PLANS

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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Plotted: 7/17/2010

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: -

CHECKED BY: -

SCALE IN FEET
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SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW-.MSH.093-.H052-.MDS-30.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

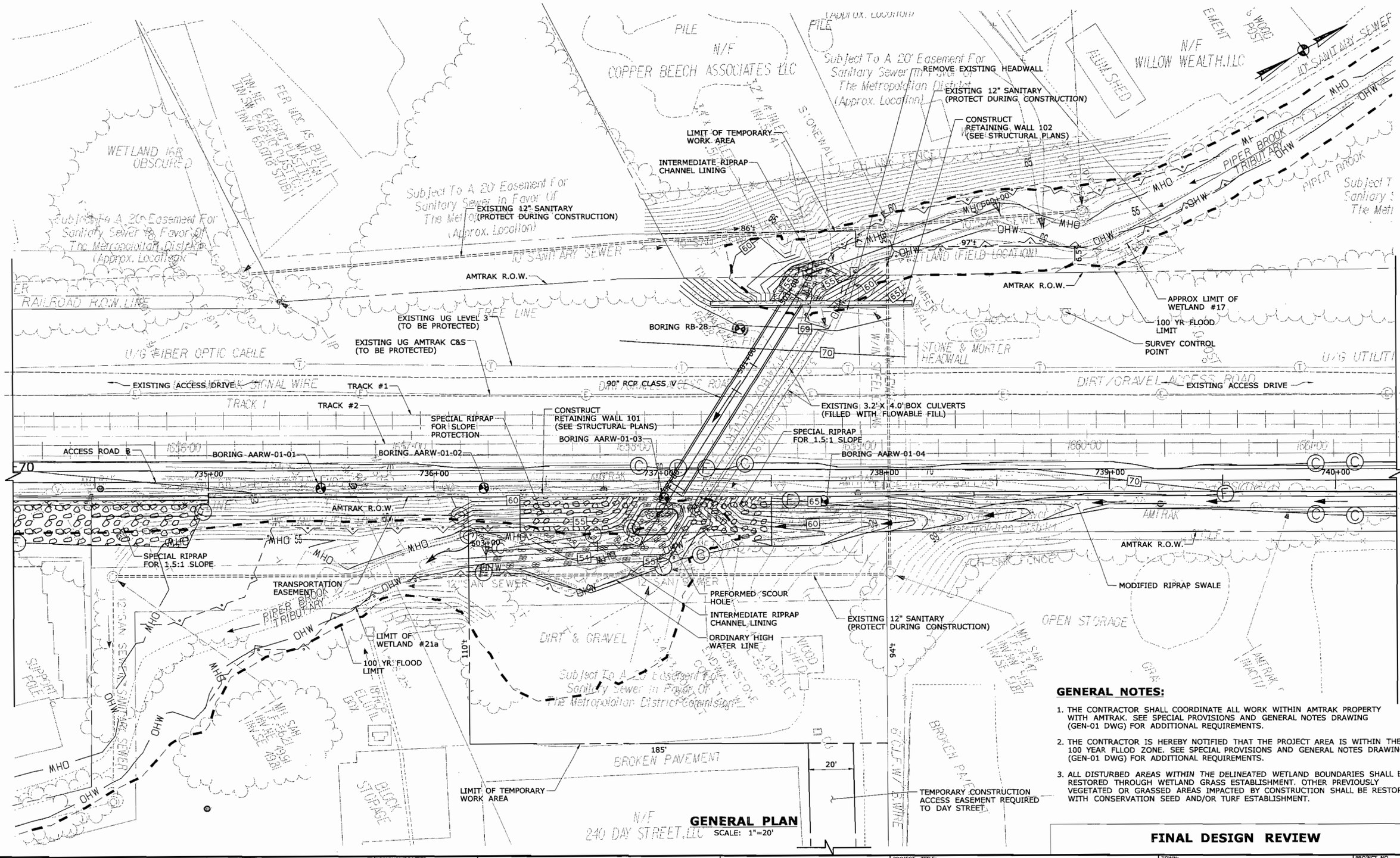
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SITE 4 - SECTIONS

PROJECT NO.
093-H052

DRAWING NO.

SHEET NO.
6



GENERAL PLAN

SCALE: 1"=20'

GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN AMTRAK PROPERTY WITH AMTRAK. SEE SPECIAL PROVISIONS AND GENERAL NOTES DRAWING (GEN-01 DWG) FOR ADDITIONAL REQUIREMENTS.
2. THE CONTRACTOR IS HEREBY NOTIFIED THAT THE PROJECT AREA IS WITHIN THE 100 YEAR FLLOD ZONE. SEE SPECIAL PROVISIONS AND GENERAL NOTES DRAWING (GEN-01 DWG) FOR ADDITIONAL REQUIREMENTS.
3. ALL DISTURBED AREAS WITHIN THE DELINEATED WETLAND BOUNDARIES SHALL BE RESTORED THROUGH WETLAND GRASS ESTABLISHMENT. OTHER PREVIOUSLY VEGETATED OR GRASSED AREAS IMPACTED BY CONSTRUCTION SHALL BE RESTORED WITH CONSERVATION SEED AND/OR TURF ESTABLISHMENT.

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: -
CHECKED BY: -
SCALE IN FEET
0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_MDS-29.dgn

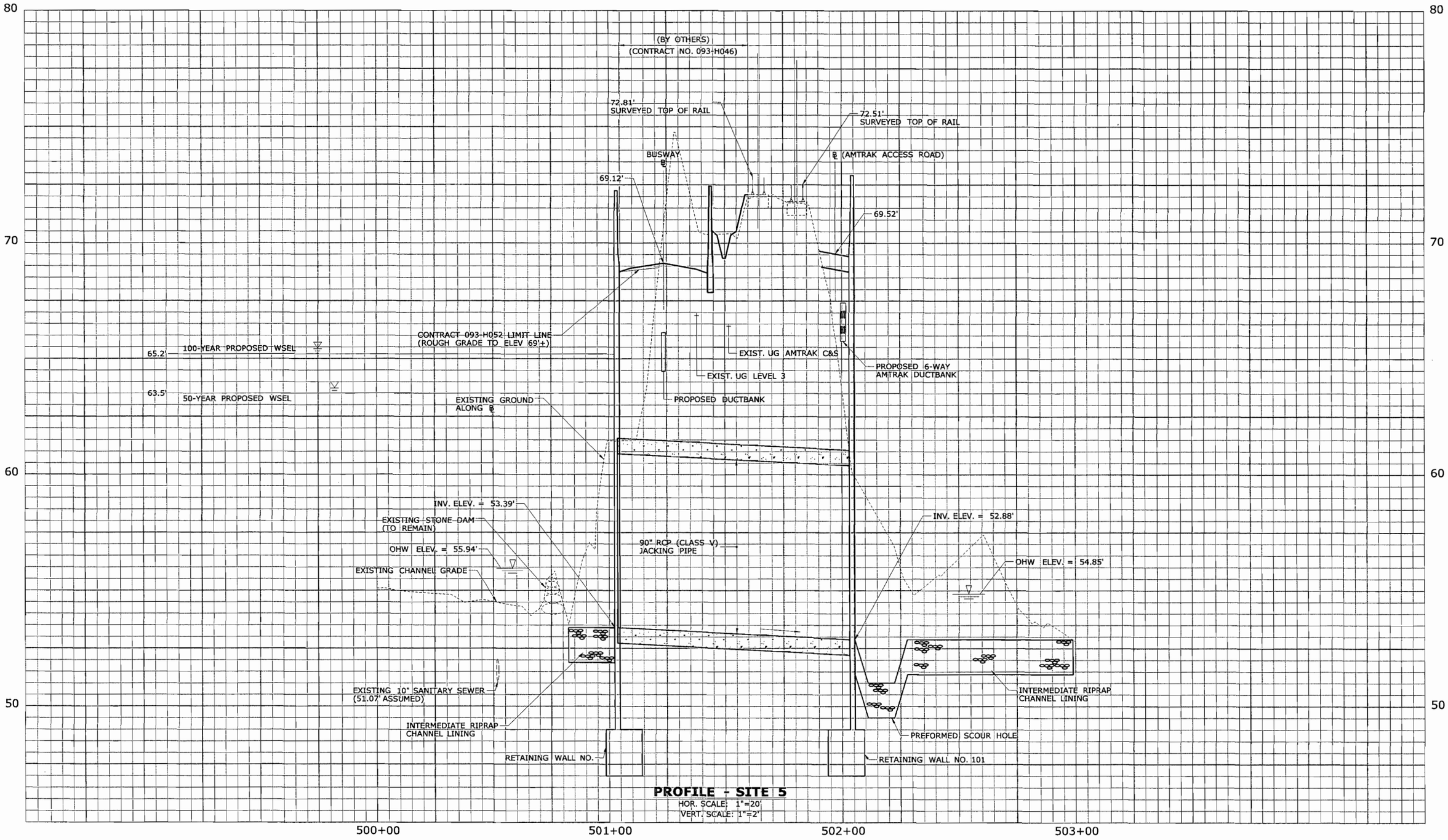
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SITE 5 - GENERAL PLAN

PROJECT NO. 093-H052
DRAWING NO.
SHEET NO. 7



PROFILE - SITE 5

HOR. SCALE: 1"=20'
VERT. SCALE: 1"=2'

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: PB-CJF/PB-CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 20 40
VERT. SCALE IN FEET 0 2 4

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_MDS-SITE 5 PROFILE.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SITE 5 - PROFILE

PROJECT NO. 093-H052
DRAWING NO.
SHEET NO. 8

STAGE 2 SUGGESTED SEQUENCE OF CONSTRUCTION:

1. MAINTAIN OR REMOVE STAGE 1 EROSION CONTROL MEASURES AS REQUIRED. INSTALL ADDITIONAL EROSION & SEDIMENTATION CONTROLS AS INDICATED.

2. MAINTAIN AND REPAIR EXISTING ACCESS DRIVES AND STAGING AREAS FROM STAGE 1. CONSTRUCT ADDITIONAL TEMPORARY CONSTRUCTION ACCESS DRIVES AND STAGING AREAS AS INDICATED ON PLAN.

3. INSTALL PRE-FORMED SCOUR HOLE AND REMAINDER OF WESTERN PORTION OF RIPRAP CHANNEL LINING IN RELOCATED STREAMBED.

4. RELOCATE TEMPORARY FLOW DIVERSION BARRIERS AS INDICATED AND REMOVE STAGE 1 TEMPORARY STEEL SHEET PILING AND ANY UNNECESSARY FLOW DIVERSION BARRIERS.

5. DIVERT STREAM FLOWS TO NEW 90" RC PIPE AND REMOVE TEMPORARY 36" HDPE PIPES, DAMS AND UNNECESSARY DIVERSION BARRIERS.

6. FOLLOWING THE OPENING OF THE 90" RC PIPE TO FLOWS, PUMP ANY STANDING WATER IN THE DOWNSTREAM EASTERN PORTION OF RELOCATED STREAMBED INTO DEWATERING BASIN AND CONSTRUCT EASTERN PORTION OF THE RIPRAP CHANNEL LINING.

7. REMOVE REMAINDER OF EXISTING UPSTREAM AND DOWNSTREAM CULVERT HEADWALLS, FILL EXISTING 3.2'x4.0' BOX CULVERTS WITH FLOWABLE FILL, CAP EXISTING CULVERT ENDS AND BACKFILL.

8. INSTALL REMAINDER OF NEW RIPRAP CHANNEL LINING IN EASTERN PORTION OF UPSTREAM END.

9. INSTALL TEMPORARY SHEET PILING (RAILROAD) AS INDICATED FOR RETAINING WALL CONSTRUCTION.

10. CONSTRUCT REMAINING PORTION OF WALL FOOTINGS AND NORTHERN PORTION OF RETAINING WALLS.

11. REMOVE TEMPORARY ACCESS ROAD AND STAGING AREA WHEN DIRECTED BY THE ENGINEER (SEE NOTE 2).

12. REMOVE EROSION CONTROL MEASURES.

13. SEED AND PLANT TEMPORARILY IMPACTED AREAS AS REQUIRED.

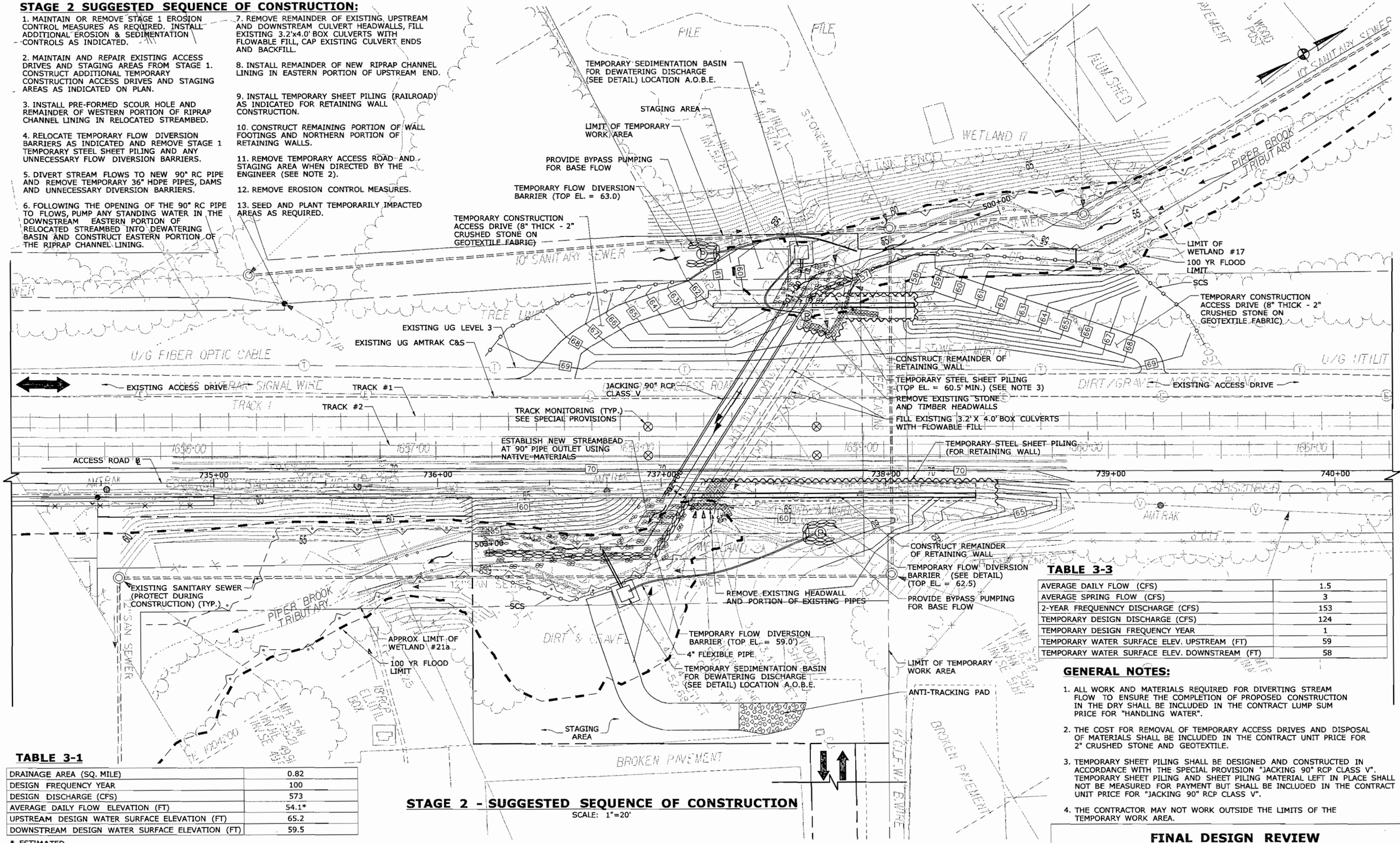


TABLE 3-1

DRAINAGE AREA (SQ. MILE)	0.82
DESIGN FREQUENCY YEAR	100
DESIGN DISCHARGE (CFS)	573
AVERAGE DAILY FLOW ELEVATION (FT)	54.1*
UPSTREAM DESIGN WATER SURFACE ELEVATION (FT)	65.2
DOWNSTREAM DESIGN WATER SURFACE ELEVATION (FT)	59.5

* ESTIMATED

TABLE 3-3

AVERAGE DAILY FLOW (CFS)	1.5
AVERAGE SPRING FLOW (CFS)	3
2-YEAR FREQUENNCY DISCHARGE (CFS)	153
TEMPORARY DESIGN DISCHARGE (CFS)	124
TEMPORARY DESIGN FREQUENCY YEAR	1
TEMPORARY WATER SURFACE ELEV. UPSTREAM (FT)	59
TEMPORARY WATER SURFACE ELEV. DOWNSTREAM (FT)	58

STAGE 2 - SUGGESTED SEQUENCE OF CONSTRUCTION

SCALE: 1"=20'

GENERAL NOTES:

1. ALL WORK AND MATERIALS REQUIRED FOR DIVERTING STREAM FLOW TO ENSURE THE COMPLETION OF PROPOSED CONSTRUCTION IN THE DRY SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR "HANDLING WATER".

2. THE COST FOR REMOVAL OF TEMPORARY ACCESS DRIVES AND DISPOSAL OF MATERIALS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR 2" CRUSHED STONE AND GEOTEXTILE.

3. TEMPORARY SHEET PILING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "JACKING 90" RCP CLASS V". TEMPORARY SHEET PILING AND SHEET PILING MATERIAL LEFT IN PLACE SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "JACKING 90" RCP CLASS V".

4. THE CONTRACTOR MAY NOT WORK OUTSIDE THE LIMITS OF THE TEMPORARY WORK AREA.

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: PB-CJF/PB-CJF
CHECKED BY: ALM
SCALE IN FEET 0 20 40
SCALE 1"=20'
Filename: $FILE$

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: SITE 5 - STAGE 2

PROJECT NO. 093-H052
DRAWING NO.
SHEET NO. 10

STAGE 1 SUGGESTED SEQUENCE OF CONSTRUCTION:

1. INSTALL EROSION AND SEDIMENTATION CONTROLS AS INDICATED.
2. TEMPORARILY DIVERT DOWNSTREAM FLOW, UTILIZING FLOW DIVERSION BARRIERS AS REQUIRED, AND INSTALL TEMPORARY 36" HDPE PIPES, DAMS AND RIPRAP PADS.
3. CONSTRUCT TEMPORARY CONSTRUCTION ACCESS DRIVES AND STAGING AREAS.
4. INSTALL TEMPORARY FLOW DIVERSION BARRIERS AS INDICATED.
5. BYPASS PUMP BASE FLOW AS INDICATED - SEE SPECIAL PROVISIONS.
6. CONSTRUCT ACCESS DRIVE OVER TEMPORARY 36" PIPES.
7. REMOVE PORTION OF EXISTING UPSTREAM AND DOWNSTREAM WINGWALLS.
8. INSTALL TEMPORARY STEEL SHEET PILING AND CONSTRUCT JACKING PITS.
9. JACK 90" RCP CLASS V - SEE SPECIAL PROVISIONS.
10. CONSTRUCT FOOTINGS FOR SOUTHERN SECTION OF WALLS ON EITHER END OF PIPE JACKING WITH KEY-IN FOR HEADWALLS AND SUPPORT SECTION FOR 90" RCP END SECTIONS.
11. REMOVE TEMPORARY STEEL SHEET PILING AROUND JACKING AND RECEIVING PITS AND INSTALL TEMPORARY SHEET PILING (RAILROAD) FOR RETAINING WALL CONSTRUCTION.
12. CONSTRUCT SOUTHERN PORTION OF RETAINING WALL NO. 101 (SEE STRUCTURE DWGS).
13. CONDUCT FINAL GRADING AT BASE OF RETAINING WALL AND STABILIZE WITH SPECIAL RIPRAP SLOPE PROTECTION.
14. CONSTRUCT PORTION OF NEW RIPRAP CHANNEL LINING IN RELOCATED STREAMBED AT BASE OF SPECIAL RIPRAP SLOPE PROTECTION.

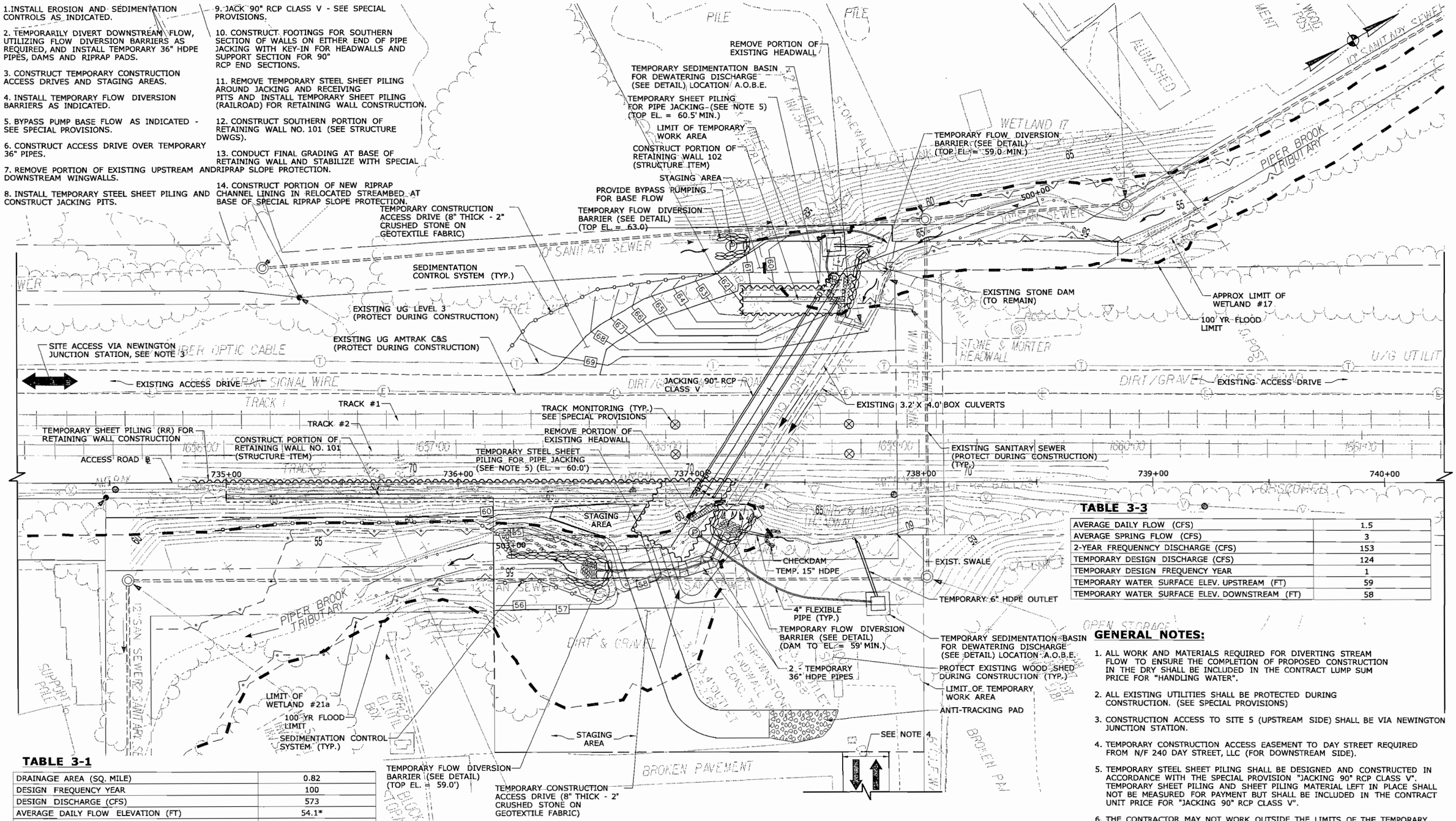


TABLE 3-1

DRAINAGE AREA (SQ. MILE)	0.82
DESIGN FREQUENCY YEAR	100
DESIGN DISCHARGE (CFS)	573
AVERAGE DAILY FLOW ELEVATION (FT)	54.1*
UPSTREAM DESIGN WATER SURFACE ELEVATION (FT)	65.2
DOWNSTREAM DESIGN WATER SURFACE ELEVATION (FT)	59.5

* ESTIMATED

TABLE 3-3

AVERAGE DAILY FLOW (CFS)	1.5
AVERAGE SPRING FLOW (CFS)	3
2-YEAR FREQUENNCY DISCHARGE (CFS)	153
TEMPORARY DESIGN DISCHARGE (CFS)	124
TEMPORARY DESIGN FREQUENCY YEAR	1
TEMPORARY WATER SURFACE ELEV. UPSTREAM (FT)	59
TEMPORARY WATER SURFACE ELEV. DOWNSTREAM (FT)	58

GENERAL NOTES:

1. ALL WORK AND MATERIALS REQUIRED FOR DIVERTING STREAM FLOW TO ENSURE THE COMPLETION OF PROPOSED CONSTRUCTION IN THE DRY SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR "HANDLING WATER".
2. ALL EXISTING UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION. (SEE SPECIAL PROVISIONS)
3. CONSTRUCTION ACCESS TO SITE 5 (UPSTREAM SIDE) SHALL BE VIA NEWINGTON JUNCTION STATION.
4. TEMPORARY CONSTRUCTION ACCESS EASEMENT TO DAY STREET REQUIRED FROM N/F 240 DAY STREET, LLC (FOR DOWNSTREAM SIDE).
5. TEMPORARY STEEL SHEET PILING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "JACKING 90" RCP CLASS V". TEMPORARY SHEET PILING AND SHEET PILING MATERIAL LEFT IN PLACE SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "JACKING 90" RCP CLASS V".
6. THE CONTRACTOR MAY NOT WORK OUTSIDE THE LIMITS OF THE TEMPORARY WORK AREA.

STAGE 1 - SUGGESTED SEQUENCE OF CONSTRUCTION

SCALE: 1"=20'

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: PB-CJF/PB-CJF
CHECKED BY: ALM
SCALE IN FEET 0 20 40
SCALE 1"=20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

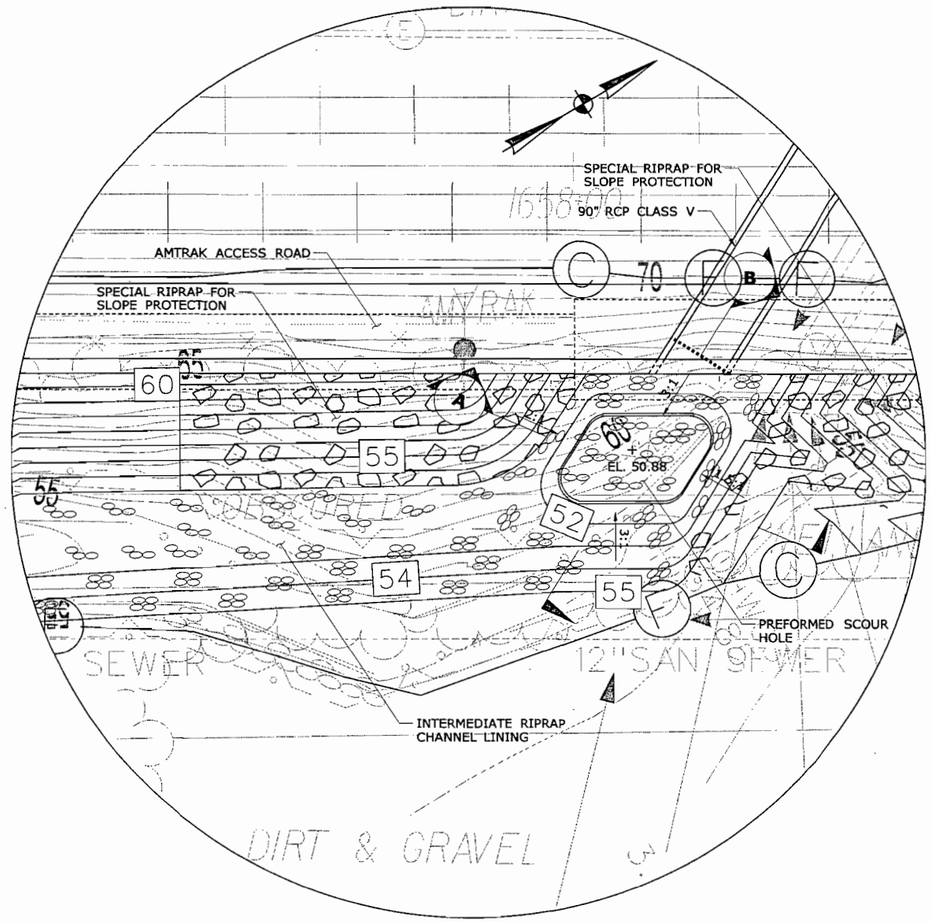
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SITE 5 - STAGE 1

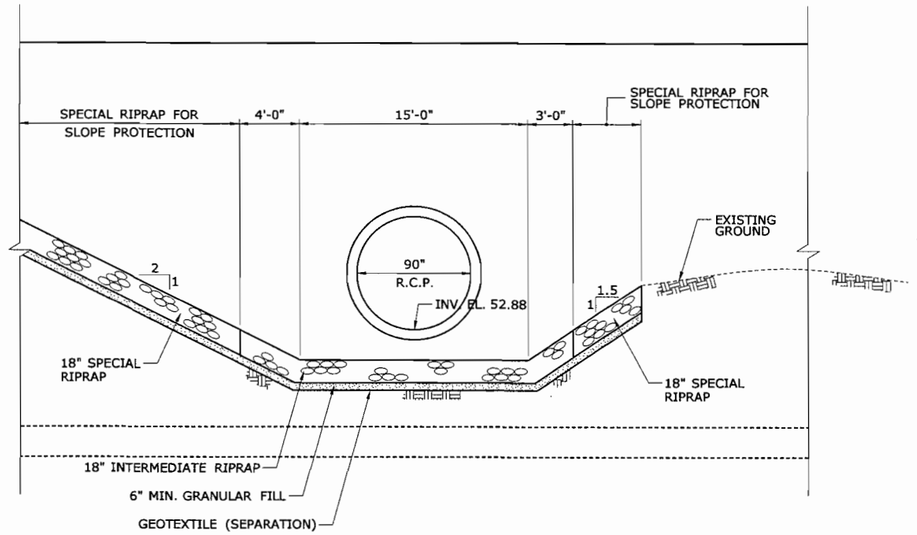
PROJECT NO. 093-H052

DRAWING NO.

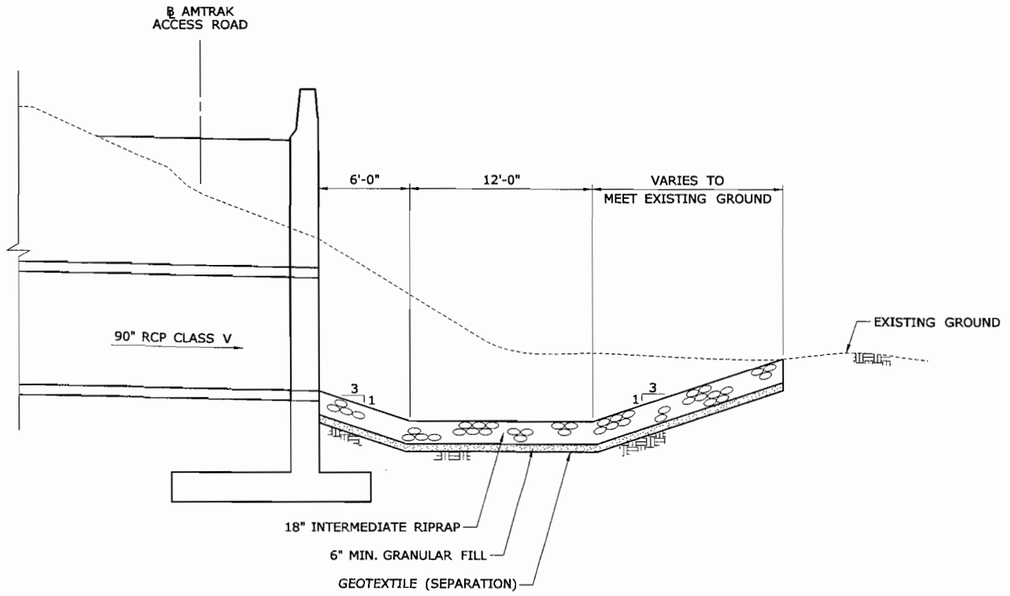
SHEET NO. 9



GRADING PLAN
SITE 5 - SCOUR HOLE



SECTION A
SCALE: NTS



SECTION B
SCALE: NTS

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_MDS-31.dgn

MICHAEL BAKER ENGINEERING, INC.

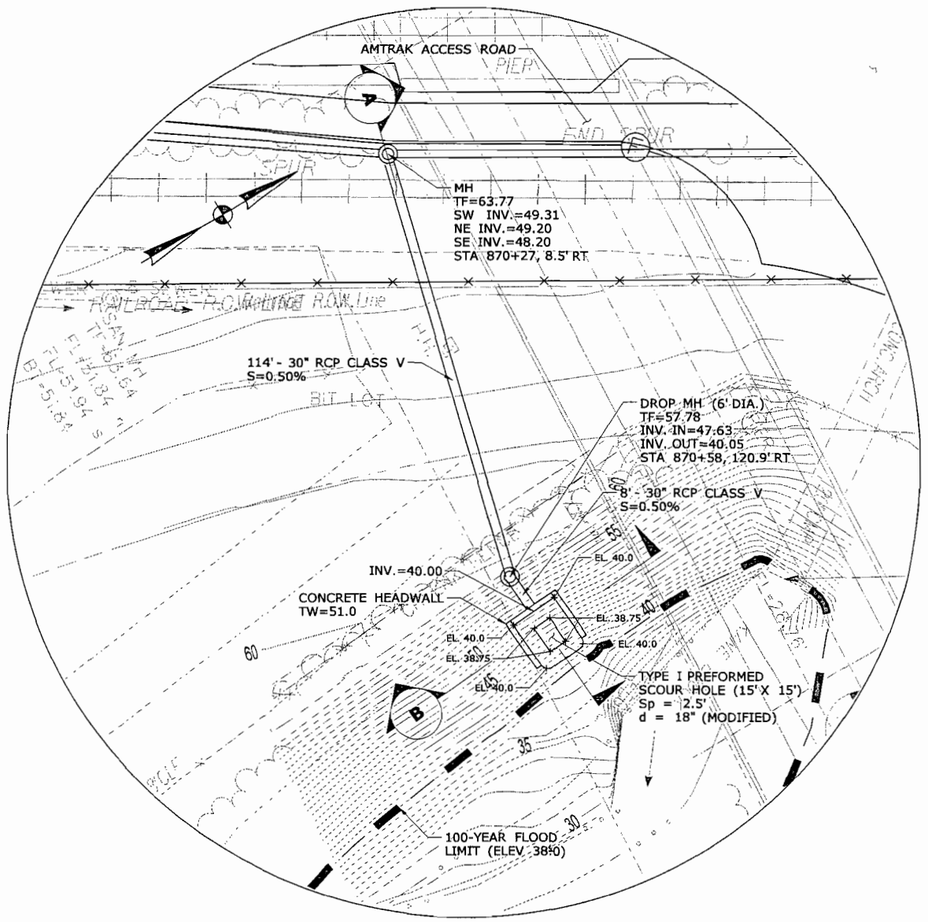
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

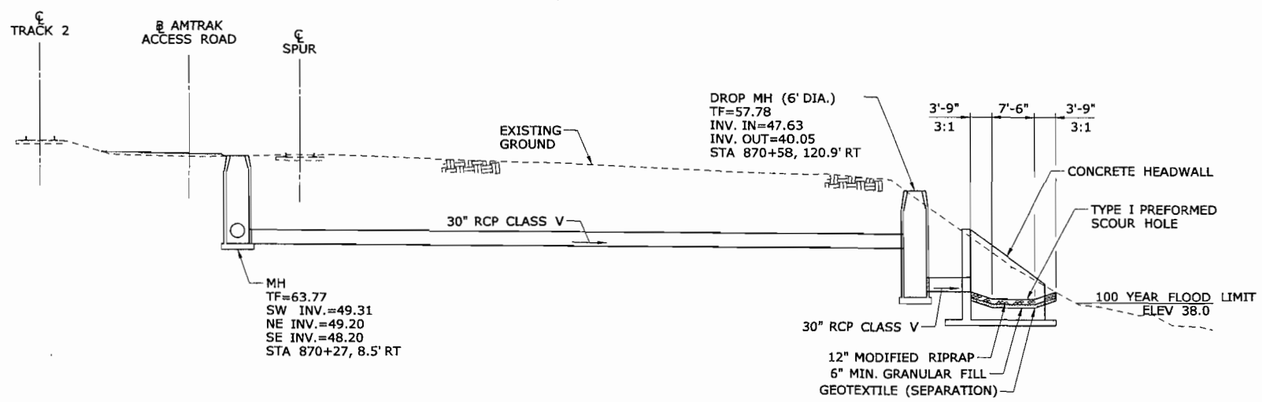
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
MISCELLANEOUS DETAILS

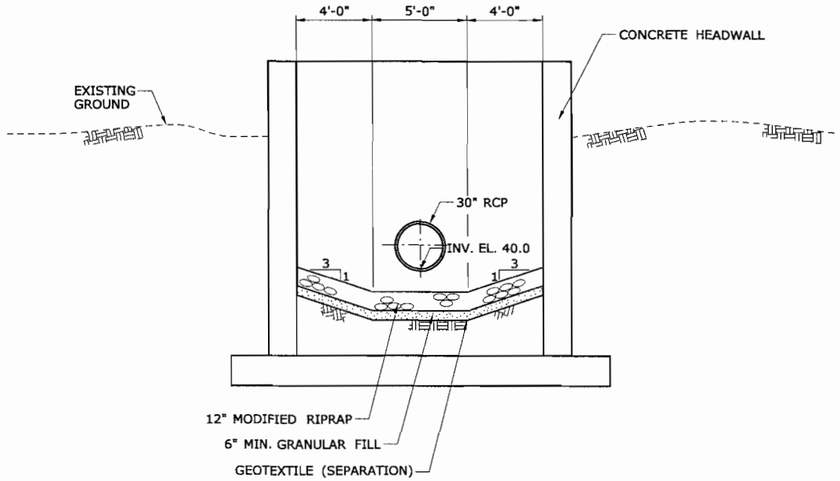
PROJECT NO. 093-H052
DRAWING NO.
SHEET NO. 11A



GRADING PLAN
OUTFALL TO KANE BROOK



SECTION A
SCALE: NTS



SECTION B
SCALE: NTS

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted: $DATE$

DESIGNER/DRAFTER: -
CHECKED BY: -
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

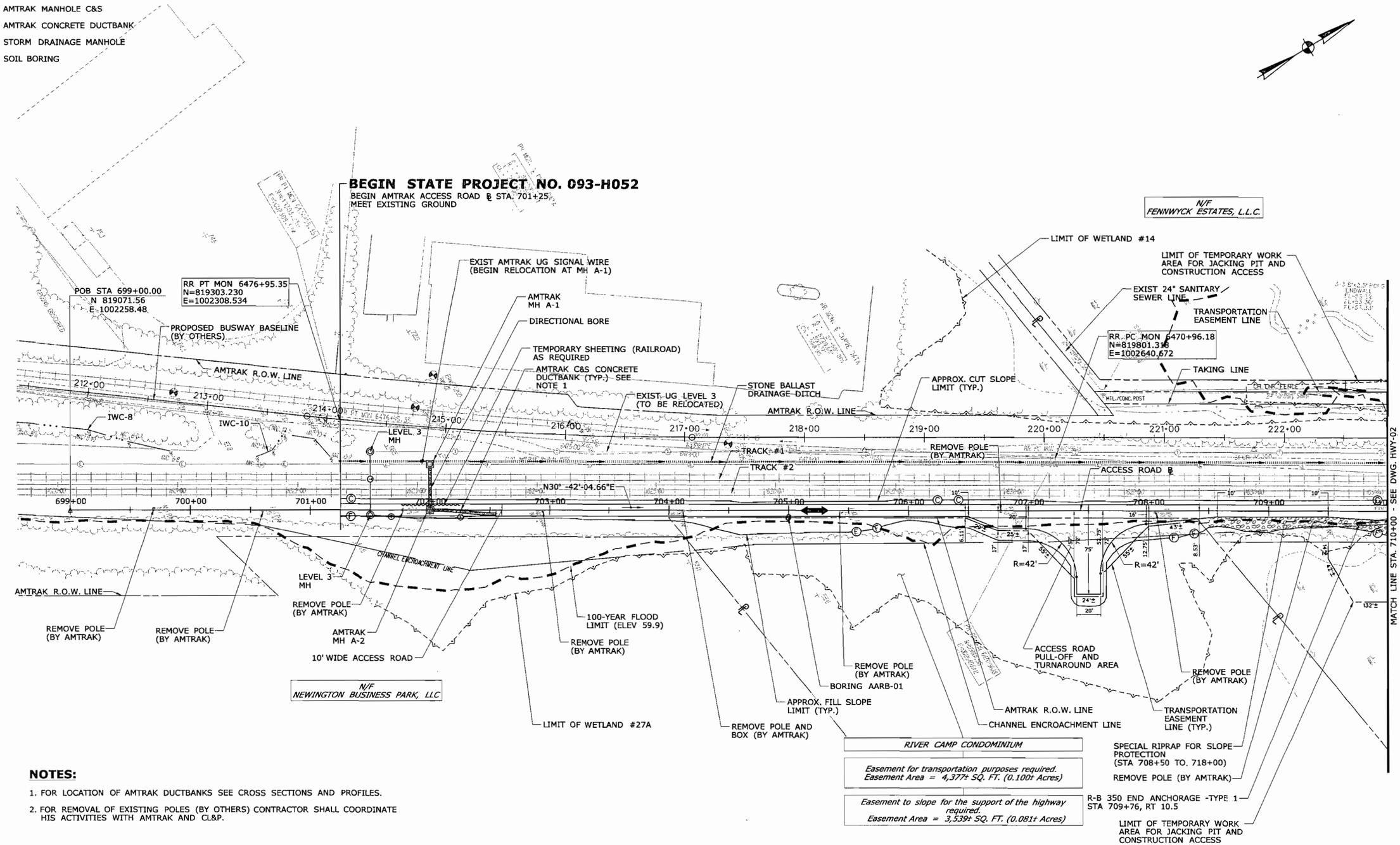
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: MISCELLANEOUS DETAILS

PROJECT NO. 093-H052
DRAWING NO. -
SHEET NO. S

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.
2. FOR REMOVAL OF EXISTING POLES (BY OTHERS) CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH AMTRAK AND CL&P.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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-	-	-	-
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

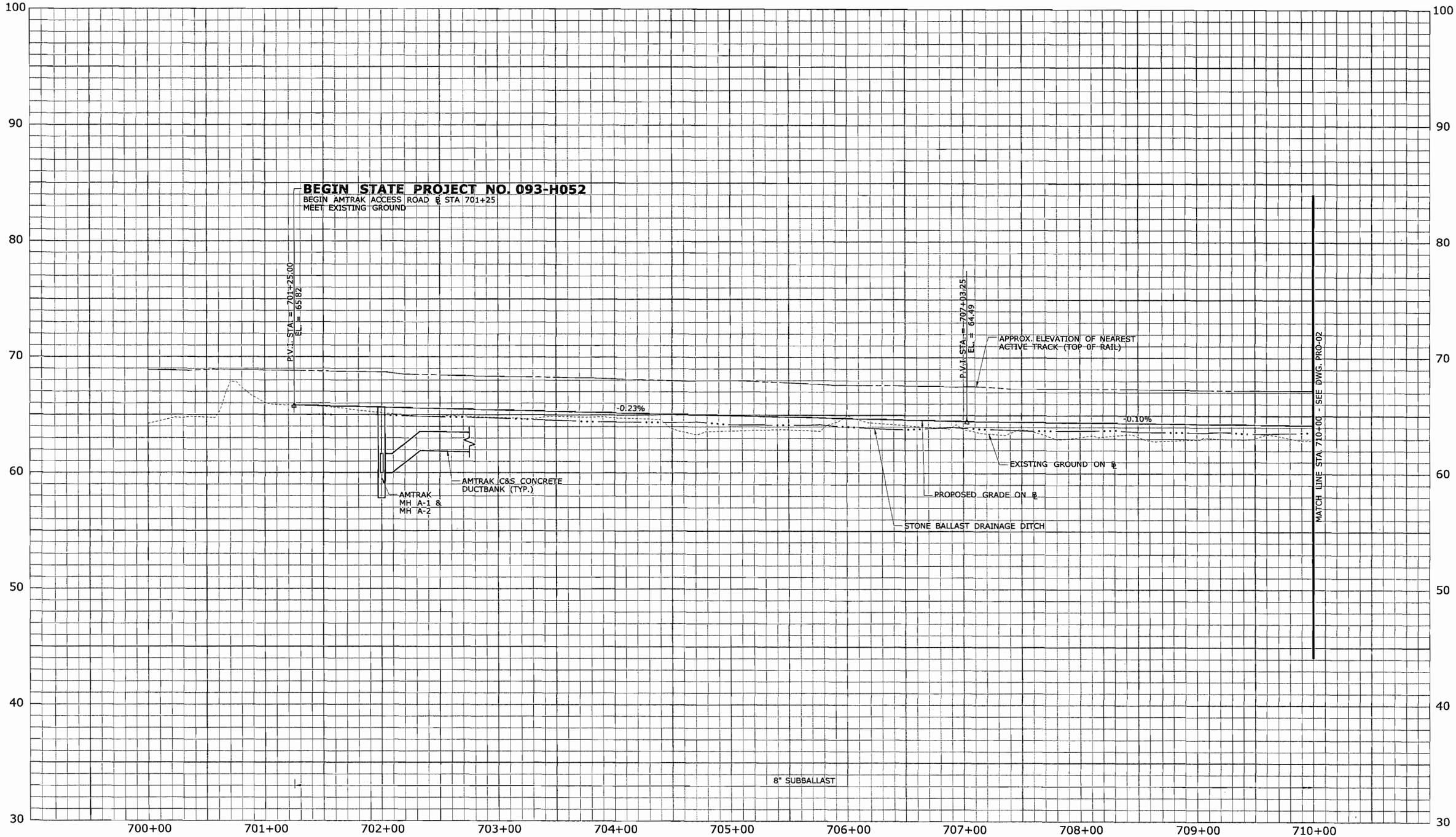
Filename: ...\HW.MSH..093..H052..PLN-01.dgn

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-01
SHEET NO. 64



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-01.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-01
SHEET NO. 65

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

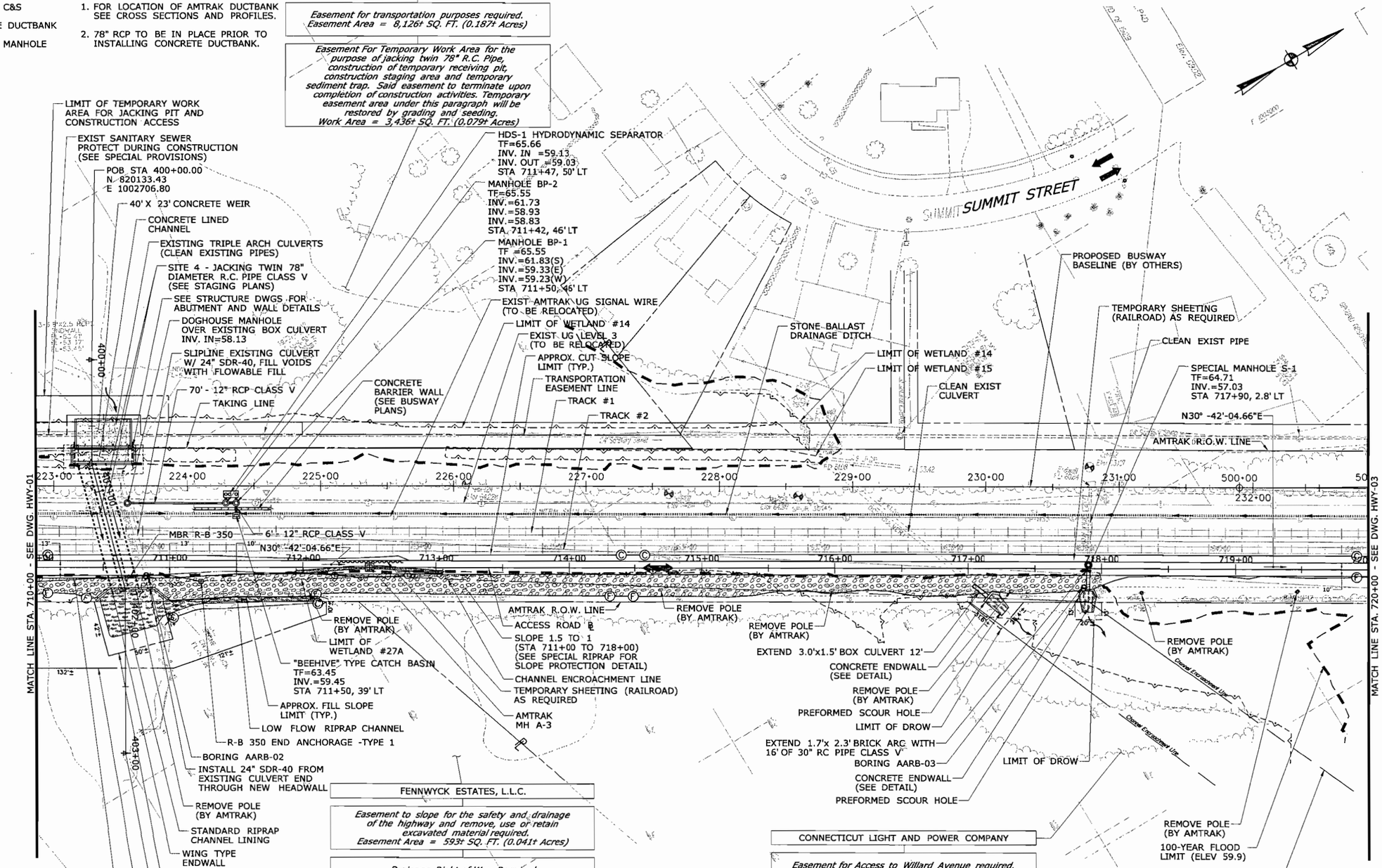
NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANK SEE CROSS SECTIONS AND PROFILES.
2. 78" RCP TO BE IN PLACE PRIOR TO INSTALLING CONCRETE DUCTBANK.

FENNWYCK ESTATES, LLC.
TAKING AREA = 216± SQ. FT. (0.005± ACRES)

Easement for transportation purposes required.
Easement Area = 8,126± SQ. FT. (0.187± Acres)

Easement For Temporary Work Area for the purpose of jacking twin 78" R.C. Pipe, construction of temporary receiving pit, construction staging area and temporary sediment trap. Said easement to terminate upon completion of construction activities. Temporary easement area under this paragraph will be restored by grading and seeding.
Work Area = 3,436± SQ. FT. (0.079± Acres)



FENNWYCK ESTATES, L.L.C.

Easement to slope for the safety and drainage of the highway and remove, use or retain excavated material required.
Easement Area = 593± SQ. FT. (0.041± Acres)

Drainage Right of Way Required
D.R.O.W. Area = 1,780± SQ. FT. (0.041± Acres)

Easement for temporary work area for the purpose of access to construct channel, construction staging area and temporary sediment trap. Said easement to terminate upon completion of construction activities. Temporary easement area under this paragraph will be restored by grading and seeding.
Work Area = 8,901± SQ. FT. (0.204± Acres)

CONNECTICUT LIGHT AND POWER COMPANY

Easement for Access to Willard Avenue required.
Easement Area = 596± SQ. FT. (0.014± Acres)

Drainage Right of Way required
D.R.O.W. Area = 681± SQ. FT. (0.016± Acres)

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-02.dgn

MICHAEL BAKER ENGINEERING, INC.

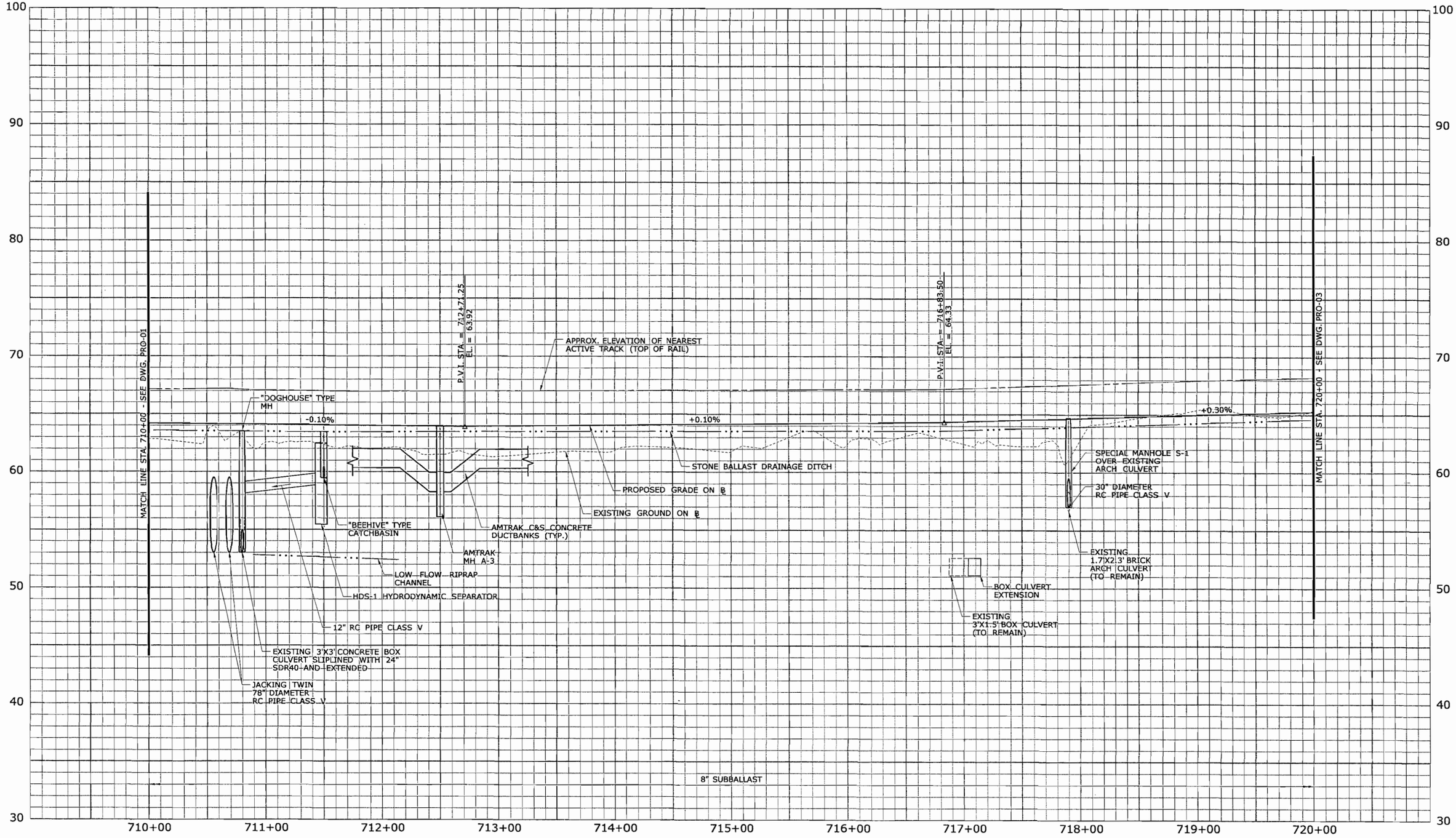
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-02
SHEET NO. 66



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-02.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

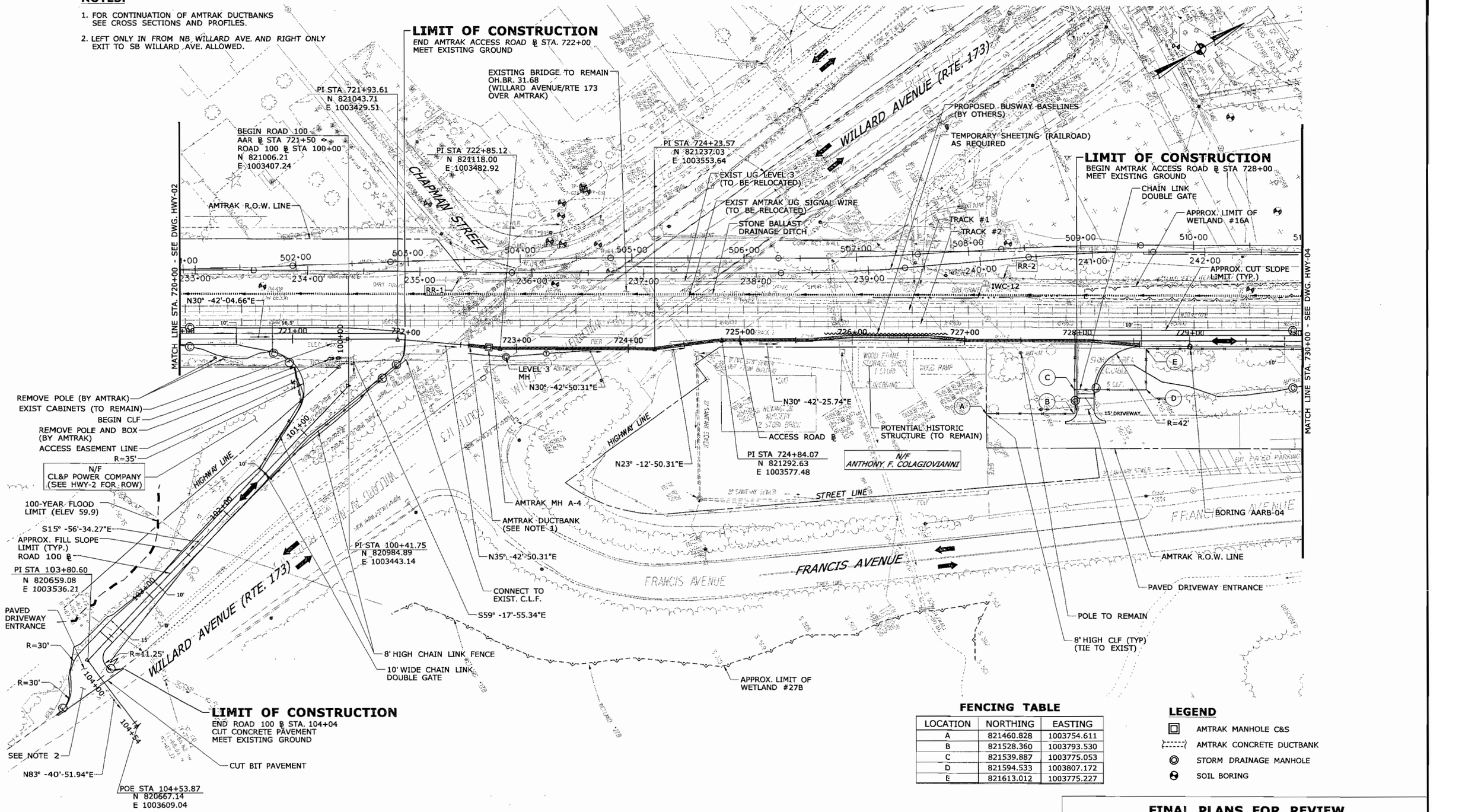
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-02
SHEET NO. 67

NOTES:

1. FOR CONTINUATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.
2. LEFT ONLY IN FROM NB WILLARD AVE. AND RIGHT ONLY EXIT TO SB WILLARD AVE. ALLOWED.



FENCING TABLE

LOCATION	NORTHING	EASTING
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B	821528.360	1003793.530
C	821539.887	1003775.053
D	821594.533	1003807.172
E	821613.012	1003775.227

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW-MSH-093-H052-PLN-03.dgn

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-03
SHEET NO. 68

LIMIT OF CONSTRUCTION
END AMTRAK ACCESS ROAD ℄ STA. 722+00
MEET EXISTING GROUND

LIMIT OF CONSTRUCTION
BEGIN AMTRAK ACCESS ROAD ℄ STA 728+00
MEET EXISTING GROUND

MATCH LINE STA. 720+00 - SEE DWG. PRO-02

MATCH LINE STA. 730+00 - SEE DWG. PRO-04

APPROX. ELEVATION OF NEAREST ACTIVE TRACK (TOP OF RAIL)

P.V.I. STA. = 721+50.00
EL. = 65.73

P.V.I. STA. = 722+00.00
EL. = 66.73

P.V.I. STA. = 728+00.00
EL. = 67.66

EXISTING GROUND

+0.30%

+2.00%

+0.20%

EXISTING GROUND ON ℄

PROPOSED GRADE ON ℄

STONE BALLAST DRAINAGE DITCH

16" GAS MAIN

12" WATER MAIN

12" WATER MAIN (TO BE ABANDONED)

8" GAS MAIN

AMTRAK MH A-4

AMTRAK C&S CONCRETE DUCTBANKS (TYP.)

36" RCP STORM

21" SANITARY SEWER

8" SUBBALLAST

8" SUBBALLAST

110 100 90 80 70 60 50 40

720+00 721+00 722+00 723+00 724+00 725+00 726+00 727+00 728+00 729+00 730+00

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-03.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-03
SHEET NO. 69

LIMIT OF CONSTRUCTION
BEGIN ROAD 100 ℄ STA 100+00 ⇨
AAR ℄ STA 721+50
EL. 65.73

LIMIT OF CONSTRUCTION
END ROAD 100 ℄ STA 104+04
MEET EXISTING GROUND

L.V.C.=150.00
S.S.D.=164.51
K=27.52

P.V.I. STA. = 100+05.00
EL. = 65.53

P.V.I. STA. = 100+49.75
EL. = 68.32

H.P. STA. = 100+62.25
EL.=67.94

P.V.C. STA. = 101+51.25
EL.=66.29

P.V.T. STA. = 103+01.25
EL.=67.37

P.V.I. STA. = 103+93.75
EL. = 70.57

℄ WILLARD AVENUE

PROPOSED GRADE ON ℄

+6.00%

-2.00%

+3.45%

12" WATER MAIN

8" GAS MAIN

EXISTING GROUND ON ℄

P.V.C. STA. = 100+24.75
EL.=66.82

P.V.T. STA. = 100+74.75
EL.=67.82

L.P.I. STA. = 102+06.31
EL.=65.74

P.V.I. STA. = 102+26.25
EL. = 64.79

P.V.C. STA. = 103+83.75
EL.=70.22

P.V.T. STA. = 104+03.75
EL.=70.58

L.V.C.=50.00
S.S.D.=159.88
K=6.25

L.V.C.=20.00
S.S.D.=337.02
K=6.06

8" SUBBALLAST

PAVED DRIVEWAY

100 50 90 80 70 60 40 30

100+00 101+00 102+00 103+00 104+00 105+00

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-26.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ROAD 100 ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-26
SHEET NO. 114

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FENCING TABLE

LOCATION	NORTHING	EASTING
F	822163.131	1004101.544

COPPER BEECH ASSOC. LLC

Easement For The Excavation of Stream Channel and Remove, Use or Retain Excavated Material Required.
Easement Area = 141± SQ. FT. (0.003± Acres)

Easement For Temporary Work Area for the purpose of jacking 90" R.C. Pipe, construction of temporary receiving pit, construction staging area and temporary sediment trap. Said easement to terminate upon completion of construction activities. Temporary easement area under this paragraph will be restored by grading and seeding.
Work Area = 2,789± SQ. FT. (0.064± Acres)

Easement to Drain required.

TEMPORARY SHEETING (RAILROAD) AS REQUIRED
EXIST AMTRAK UG SIGNAL WIRE (TO BE RELOCATED)
EXIST UG LEVEL 3 (TO BE RELOCATED)
APPROX. LIMIT OF WETLAND #16
IWC-11
TRACK #1
TRACK #2
LIMIT OF WETLAND #16B
STONE BALLAST DRAINAGE DITCH
PROPOSED BUSWAY BASELINE (BY OTHERS)
SITE 5 - JACKING 90" DIA. RC PIPE CLASS V (SEE STAGING PLANS)
RETAINING WALL NO. 102 (SEE STRUCTURE DWGS)
INTERMEDIATE RIPRAP CHANNEL LINING
LIMIT OF TEMP. WORK AREA
REMOVE EXIST HEADWALL STRUCTURE
LIMIT OF WETLAND #17
100-YEAR FLOOD LIMIT (ELEV 59.9)
POB STA 500+00.00
N 822530.14
E 1004170.98
AMTRAK R.O.W. LINE
FILL WITH FLOWABLE FILL AFTER SITE 5 COMPLETE
RR-3
RR-4
LIMIT OF WETLAND #21a
REMOVE POLE (BY AMTRAK)
MBR END ANCHORAGE
N30° -42'-25.74"E
MBR BRIDGE ATTACHMENT
REMOVE POLE (BY AMTRAK)
AMTRAK MILE POST 32
REMOVE, STORE & RESET MP MARKER
MATCH LINE STA. 730+00 - SEE DWG. HWY-03
MATCH LINE STA. 740+00 - SEE DWG. HWY-05
APPROX. FILL SLOPE LIMIT (TYP.)
SLOPE 1.5:1 SPECIAL RIPRAP FOR SLOPE PROTECTION (732+50 TO 735+00
AMTRAK R.O.W. LINE
PREFORMED SCOUR HOLE
REMOVE POLE (BY AMTRAK)
INTERMEDIATE RIPRAP CHANNEL LINING
POE STA 503+00.00
N 822255.88
E 1004185.69
REMOVE POLE (BY OTHERS)
REMOVE CHAIN LINK FENCE
REMOVE POLE (BY AMTRAK)
N/F 174 FRANCIS AVE LLC
REMOVE POLE (BY AMTRAK)
MBR R-B 350
ACCESS ROAD B
AMTRAK MH A-5
TRANSPORTATION EASEMENT LINE
BEGIN RETAINING WALL 101 (STA. 735+00)
LIMIT OF TEMPORARY WORK AREA
REMOVE POLE (BY AMTRAK)
APPROX. CUT SLOPE LIMIT (TYP.)
MODIFIED RIPRAP SWALE
END RETAINING WALL 101 (STA. 738+40)
N/F GUERTIN, GEORGE A.
EXISTING SANITARY SEWER PROTECT DURING CONSTRUCTION (SEE SPECIAL PROVISIONS)
REMOVE POLE (BY AMTRAK)
LIMIT OF TEMPORARY ACCESS EASEMENT
TO DAY STREET
100-YEAR FLOOD LIMIT (ELEV 56.9)

240 DAY STREET, LLC

Easement for transportation purposes required.
Easement Area = 1,418± SQ. FT. (0.033± Acres)

Easement to slope for the support and drainage of the highway required.
Easement Area = 612± SQ. FT. (0.014± Acres)

Right to install sedimentation control system required.
Right Length = 175± L.F.

Easement for the excavation of stream channel and remove, use or retain excavated material required.
Easement Area = 683± SQ. FT. (0.016± Acres)

Easement for temporary access to New Britain Avenue acquired. Said easement to terminate upon completion of construction activities. Temporary easement area under this paragraph will be restored by returning the area to its original condition.
Work Area = 3,816± SQ. FT. (0.088± Acres)

Easement for temporary work area for the purpose of access to construct channel, construction staging area and temporary sediment trap. Said easement to terminate upon completion of construction activities. Temporary easement area under this paragraph will be restored by grading and seeding.
Work Area = 17,470± SQ. FT. (0.401± Acres)

NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANK SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN_04.dgn

MICHAEL BAKER ENGINEERING, INC.

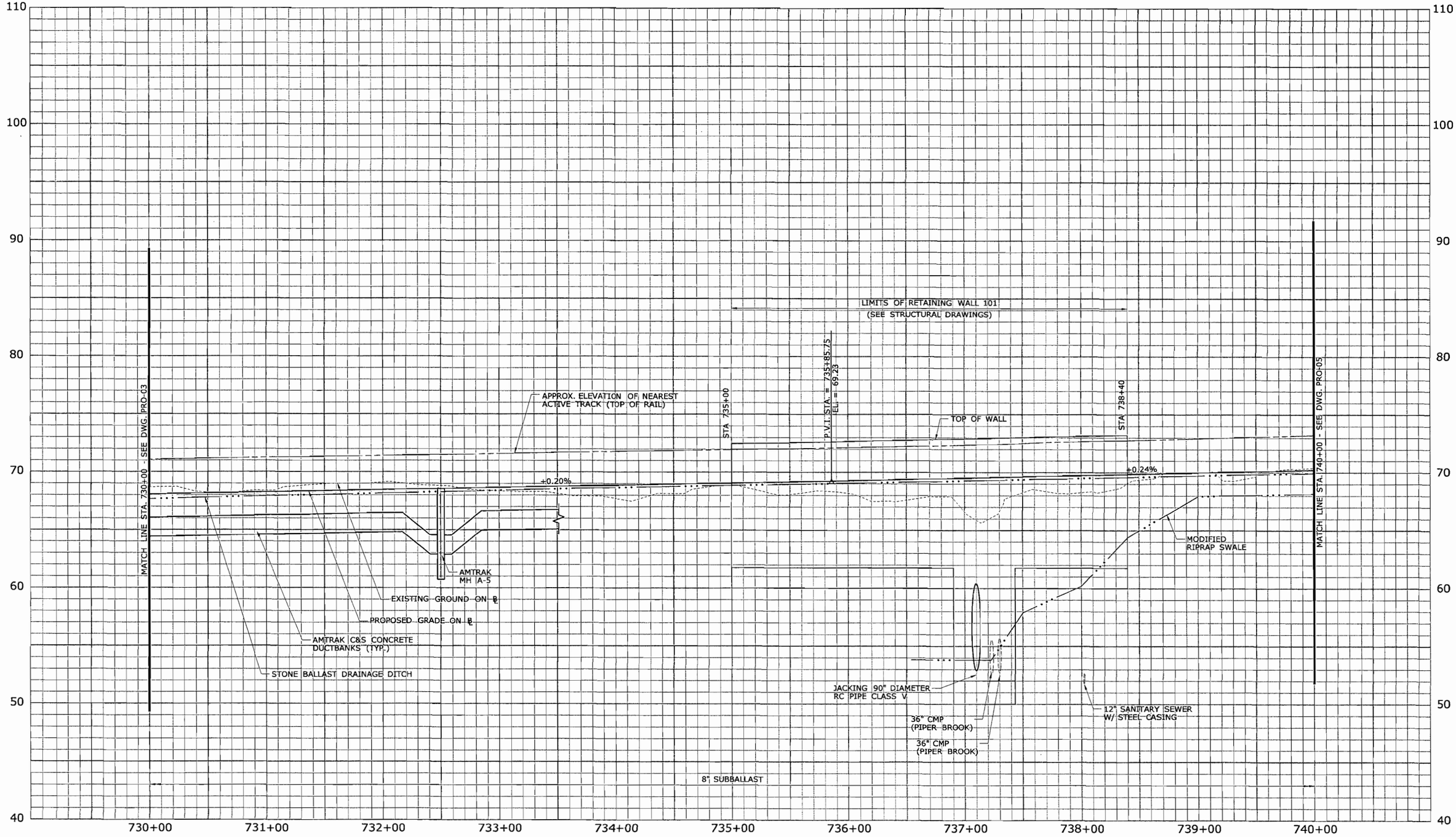
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-04
SHEET NO. 70



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-04.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

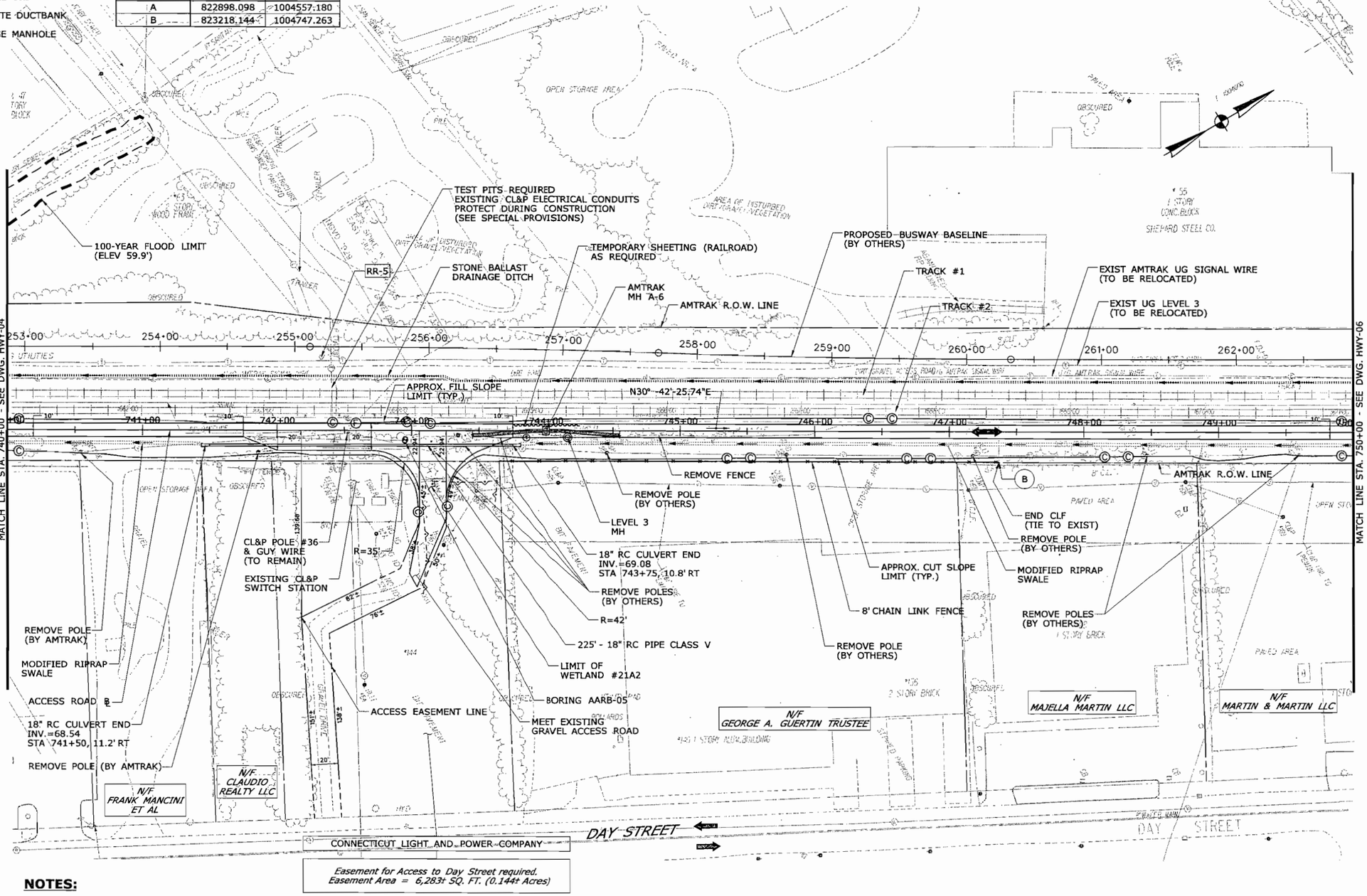
PROJECT NO. 093-H052
DRAWING NO. PRO-04
SHEET NO. 71

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FENCING TABLE

LOCATION	NORTHING	EASTING
A	822898.098	1004557.180
B	823218.144	1004747.263



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANK SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-05.dgn

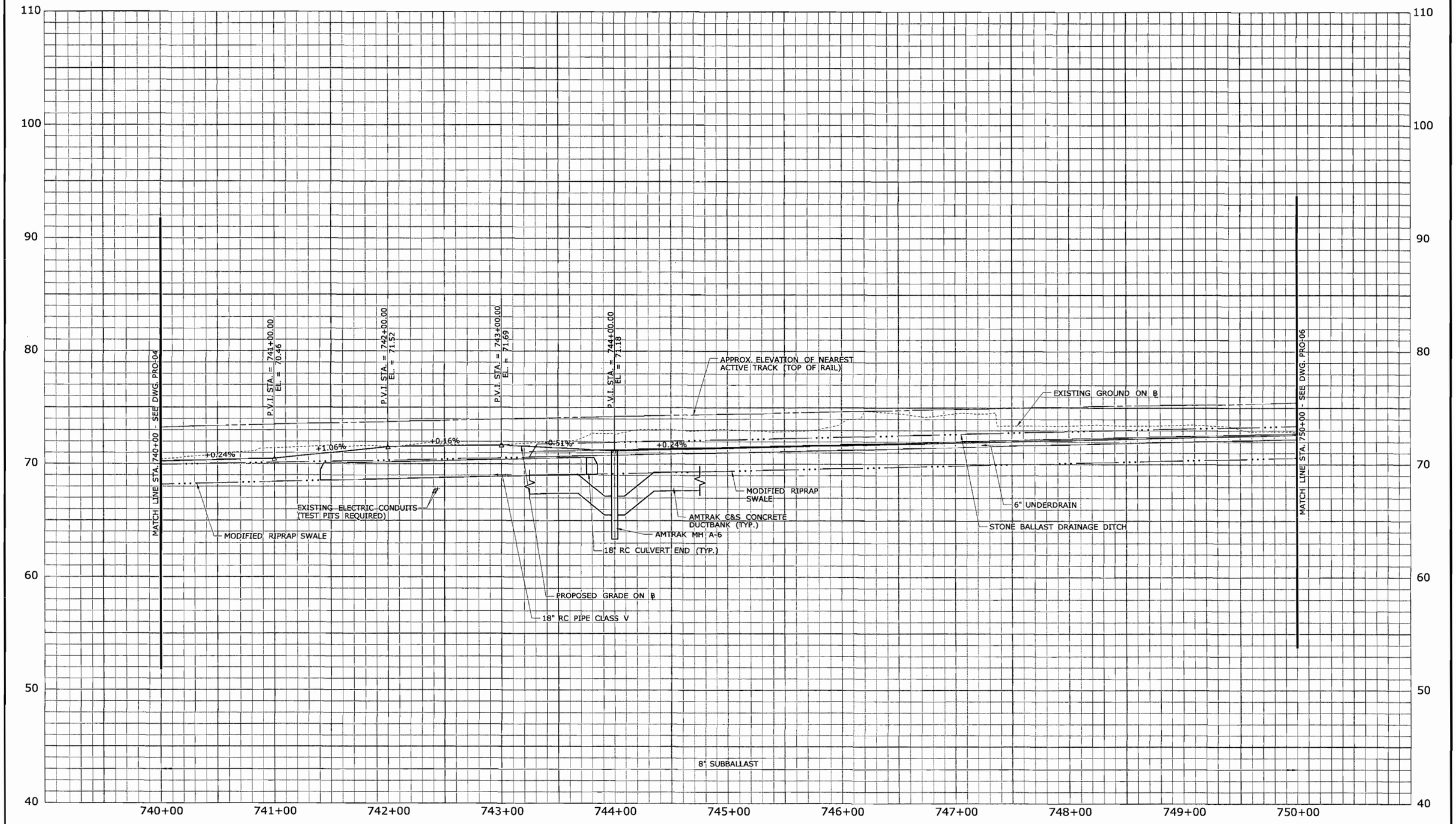
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-05
SHEET NO. 72



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-05.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

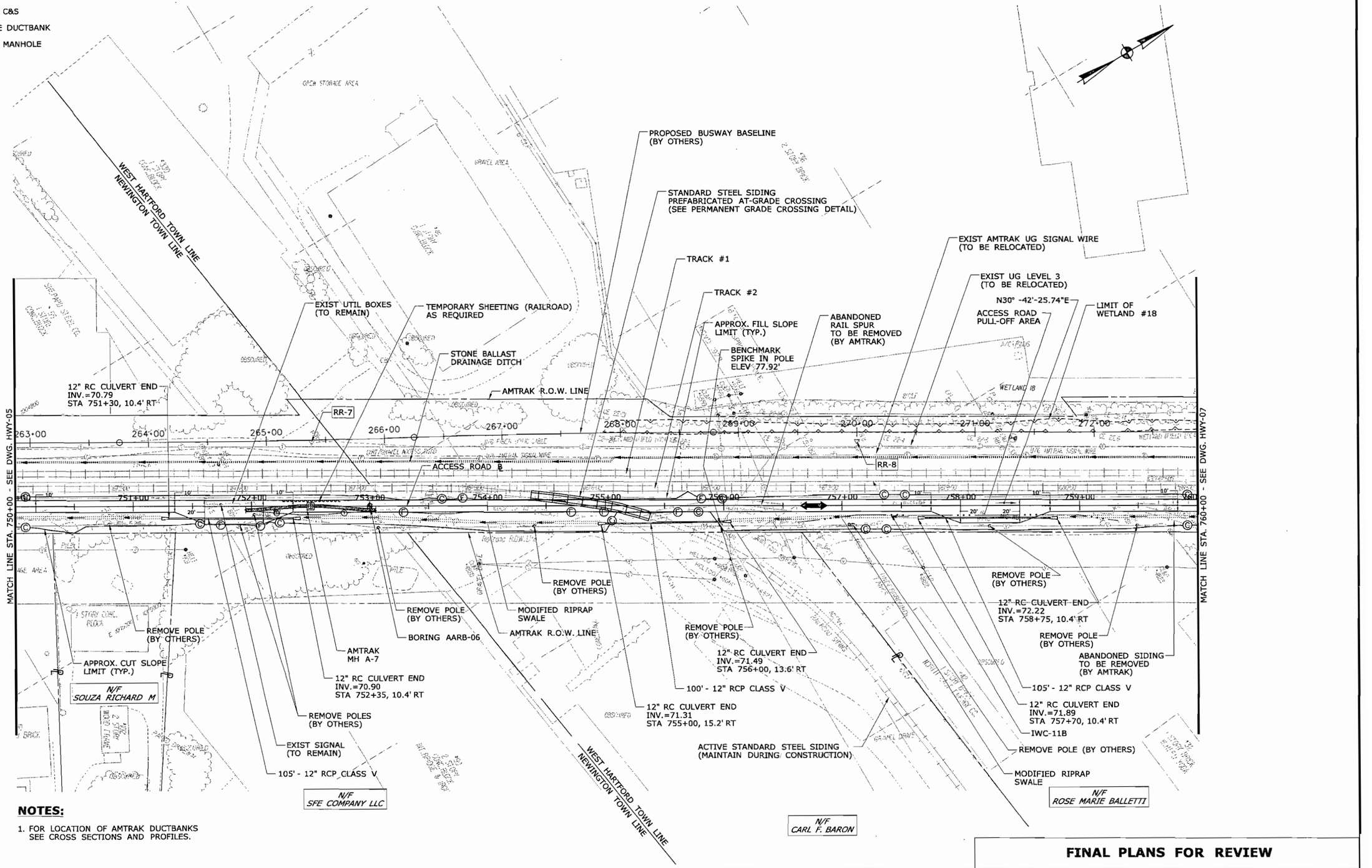
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-05
SHEET NO. 73

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-06.dgn

MICHAEL BAKER ENGINEERING, INC.

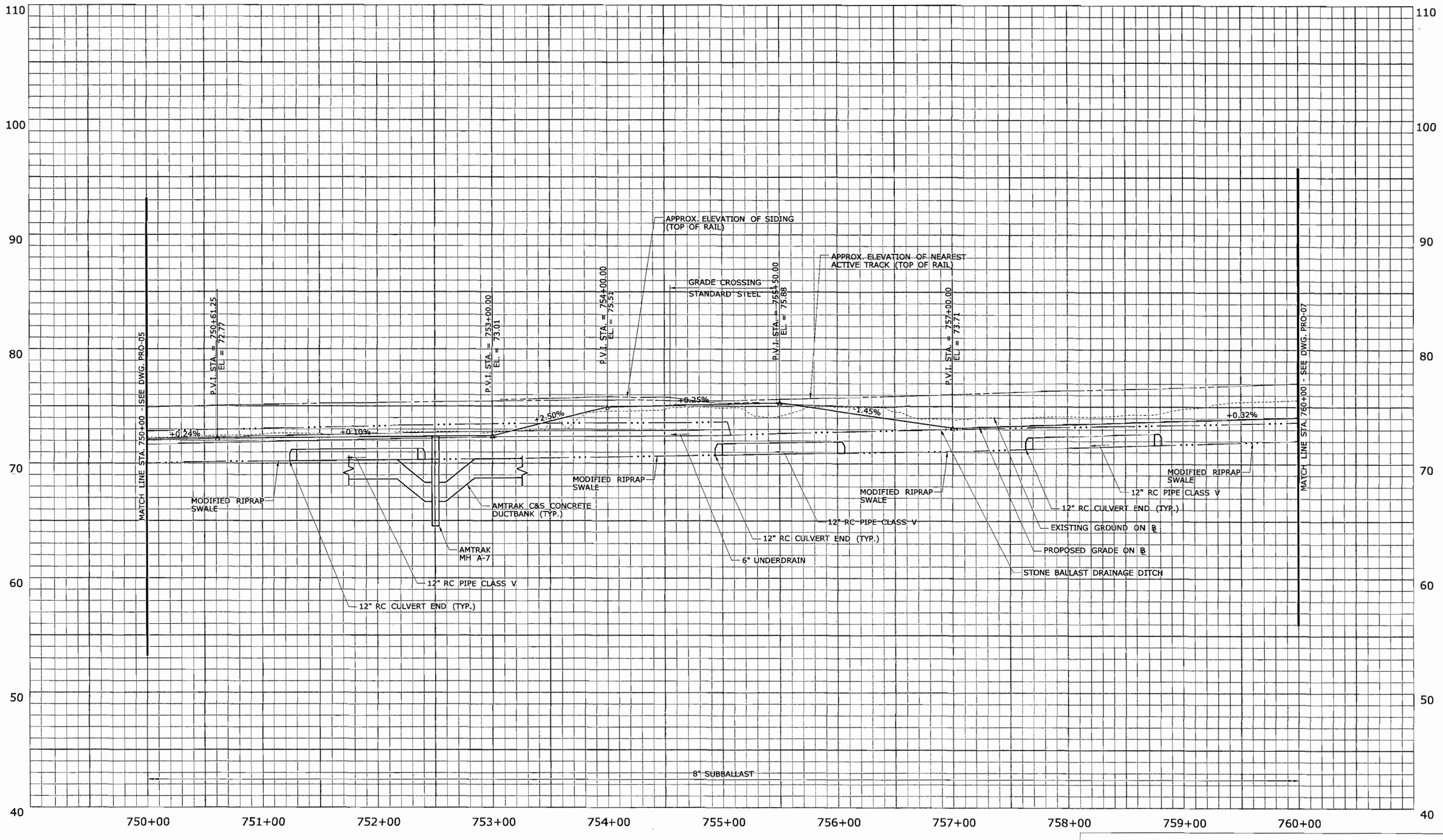
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-06
SHEET NO. 74



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-06.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

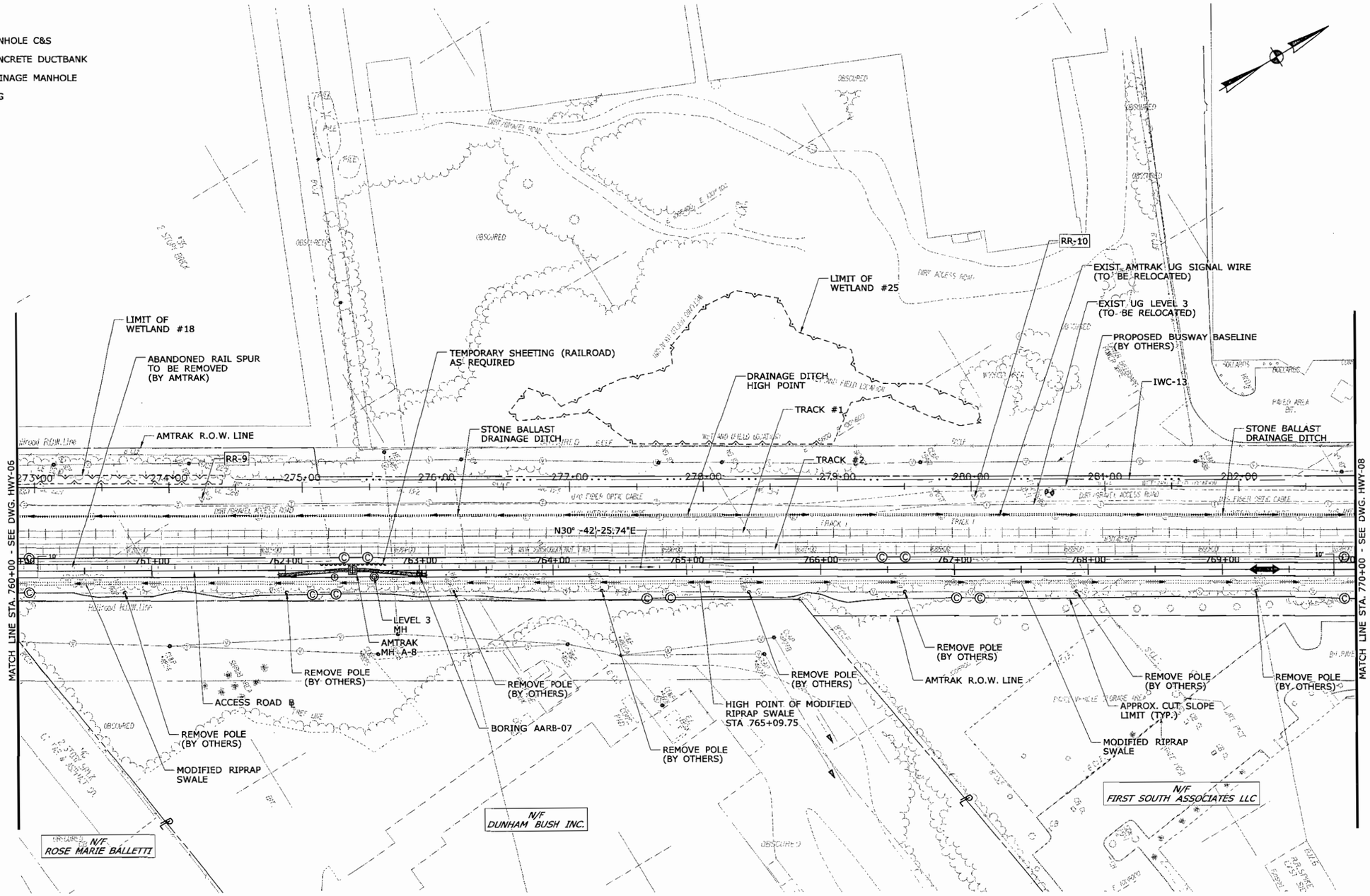
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-06
SHEET NO. 75

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-07.dgn

MICHAEL BAKER ENGINEERING, INC.

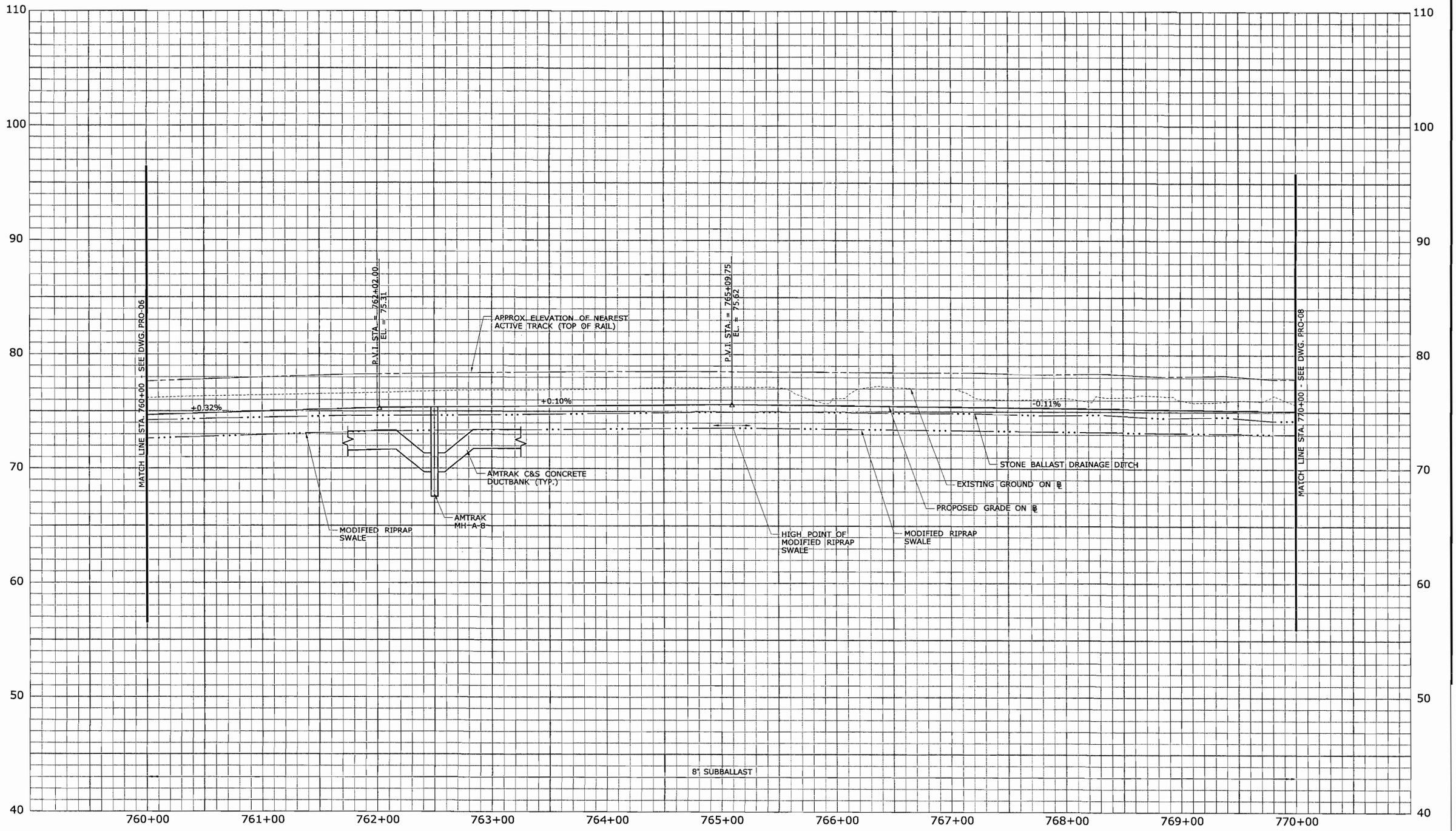
APPROVED BY: - DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-07
SHEET NO. 76



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093-H052_PRO-07.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

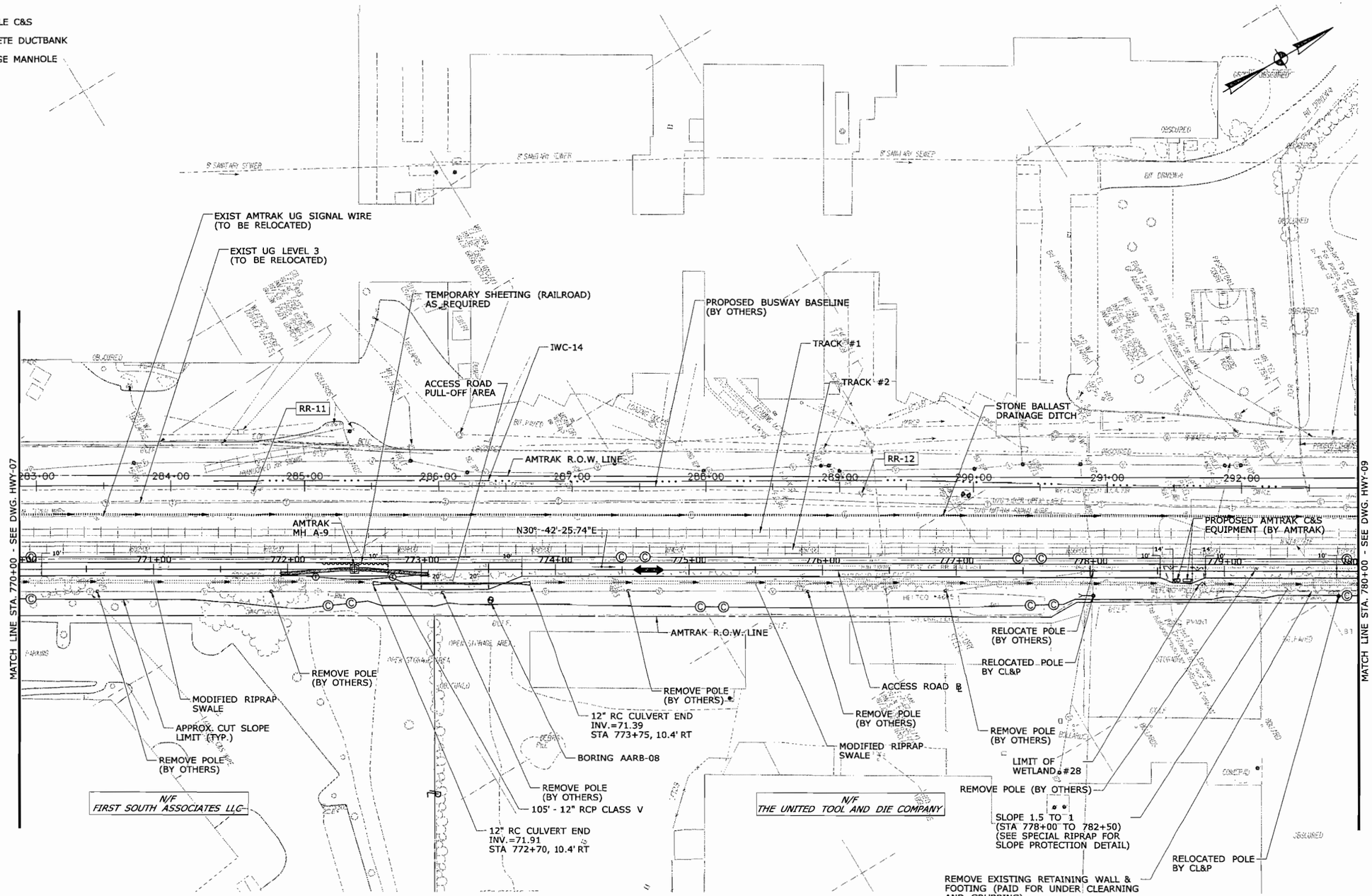
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-07
SHEET NO. 77

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-08.dgn

MICHAEL BAKER ENGINEERING, INC.

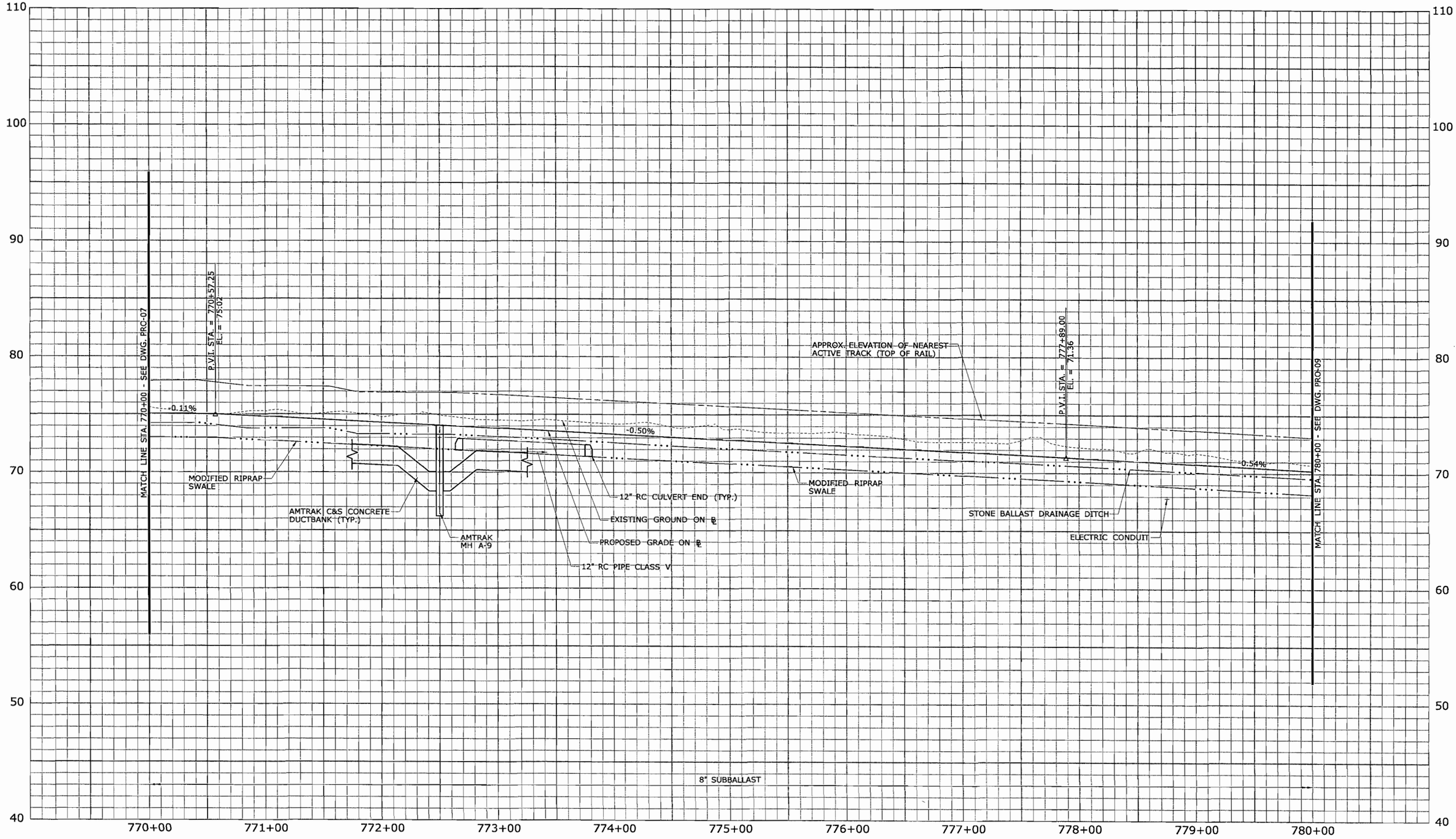
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-08
SHEET NO. 78



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-08.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PROFILE ACCESS ROAD ℄

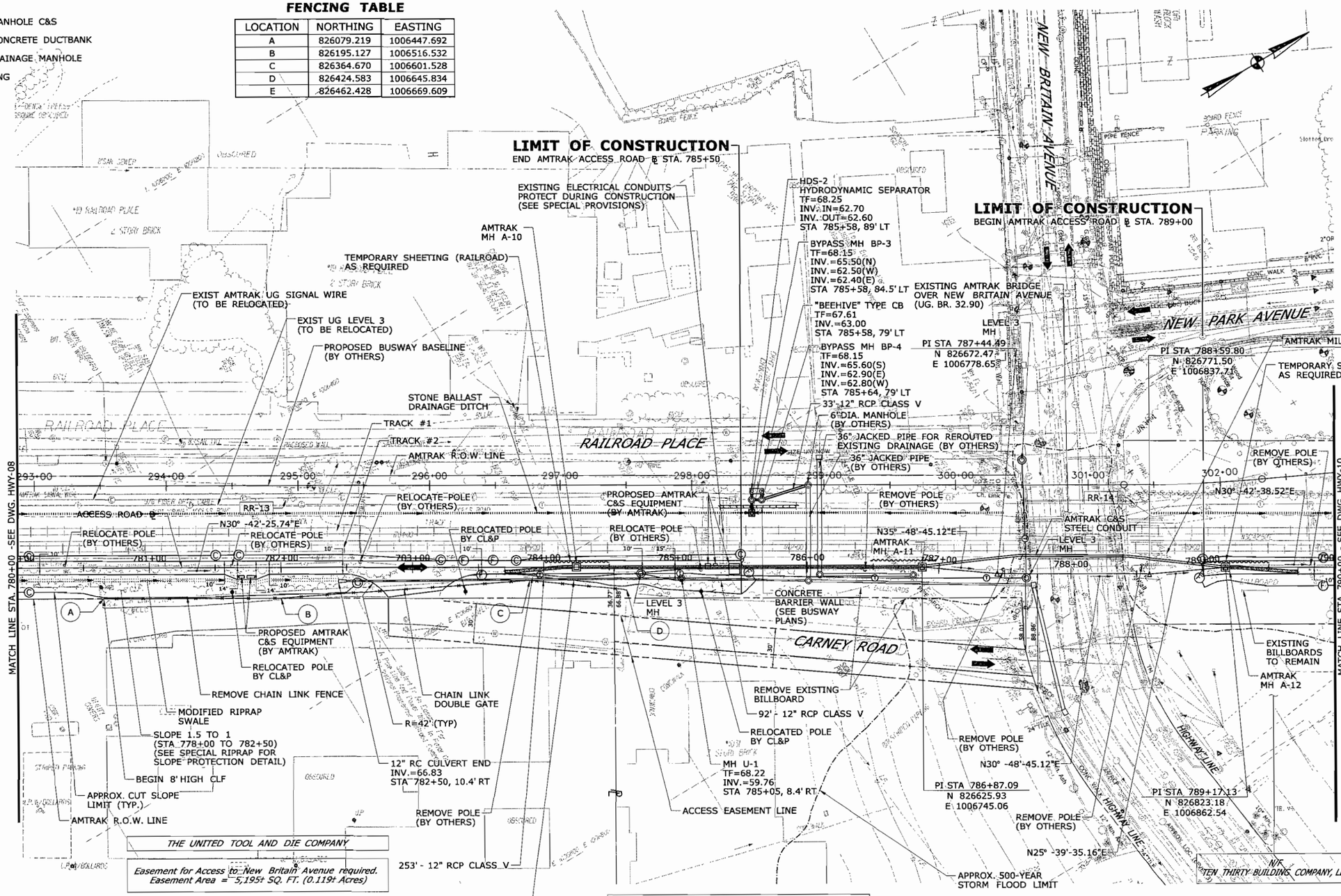
PROJECT NO. 093-H052
DRAWING NO. PRO-08
SHEET NO. 79

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FENCING TABLE

LOCATION	NORTHING	EASTING
A	826079.219	1006447.692
B	826195.127	1006516.532
C	826364.670	1006601.528
D	826424.583	1006645.834
E	826462.428	1006669.609



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-09.dgn

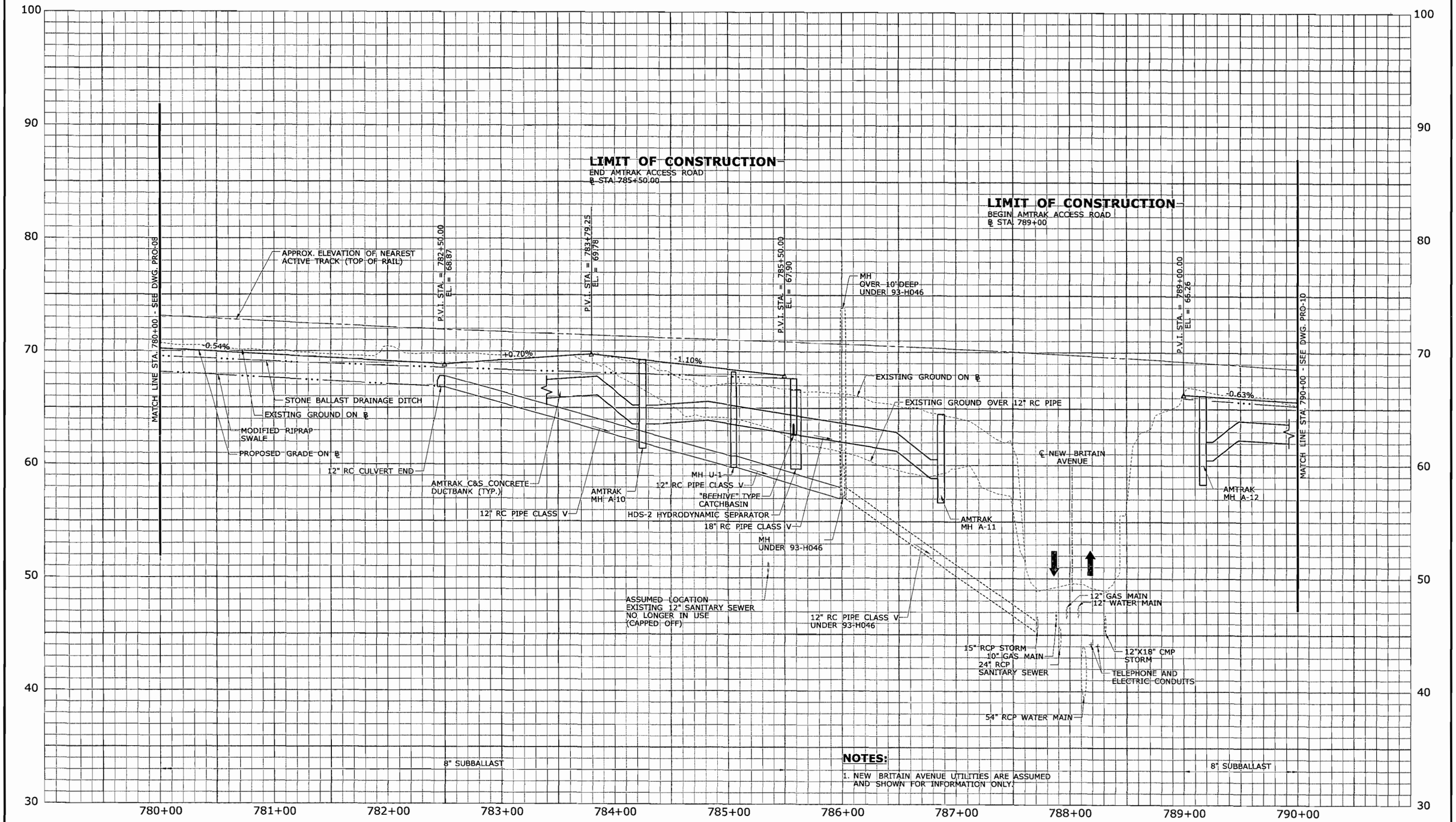
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-09
SHEET NO. 80



NOTES:

1. NEW BRITAIN AVENUE UTILITIES ARE ASSUMED AND SHOWN FOR INFORMATION ONLY.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-09.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

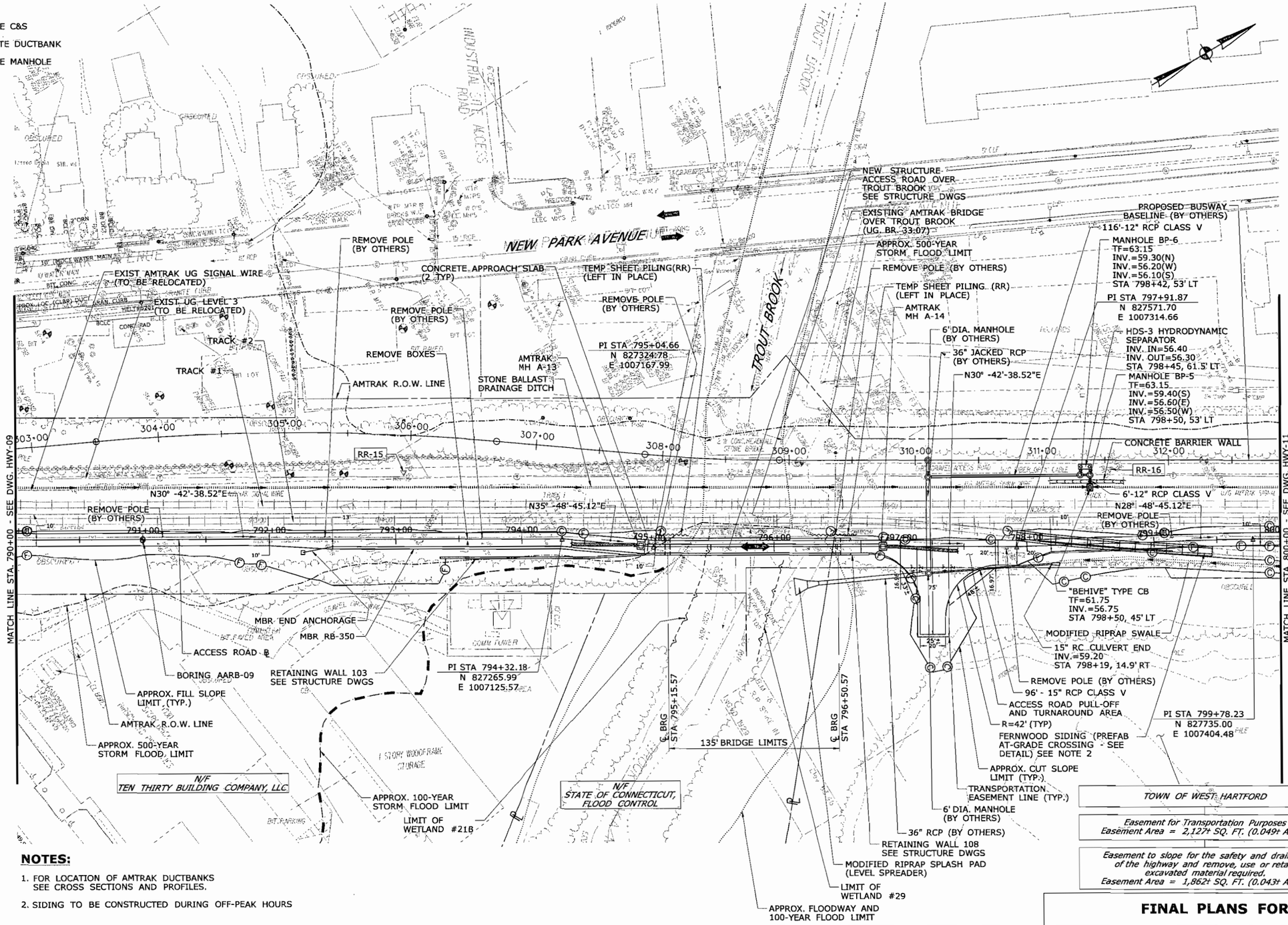
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-09
SHEET NO. 81

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING



TOWN OF WEST HARTFORD

Easement for Transportation Purposes
Easement Area = 2,127± SQ. FT. (0.049± Acres)

Easement to slope for the safety and drainage of the highway and remove, use or retain excavated material required.
Easement Area = 1,862± SQ. FT. (0.043± Acres)

NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.
2. SIDING TO BE CONSTRUCTED DURING OFF-PEAK HOURS

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-10.dgn

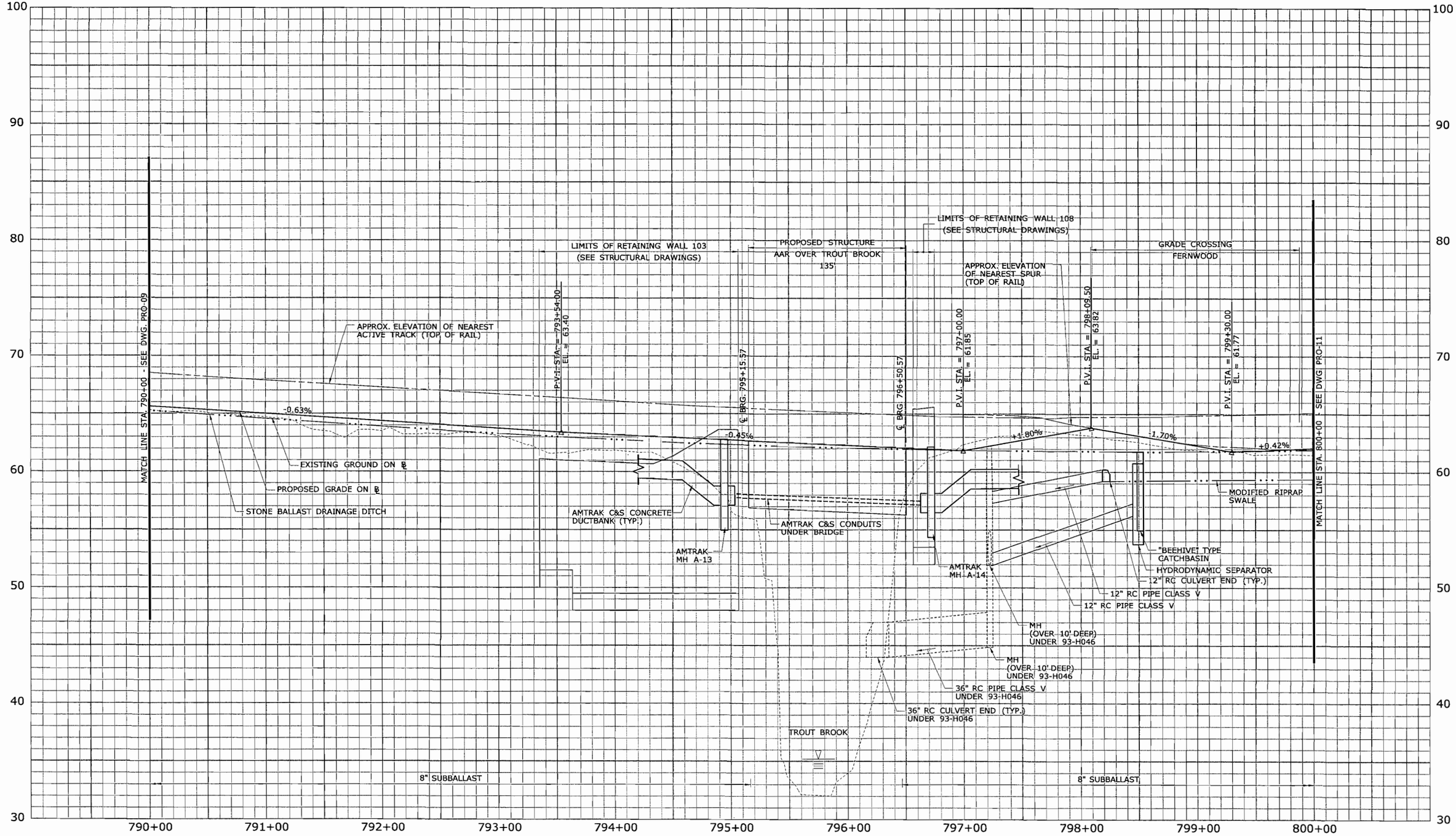
MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-10
SHEET NO. 82



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-10.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

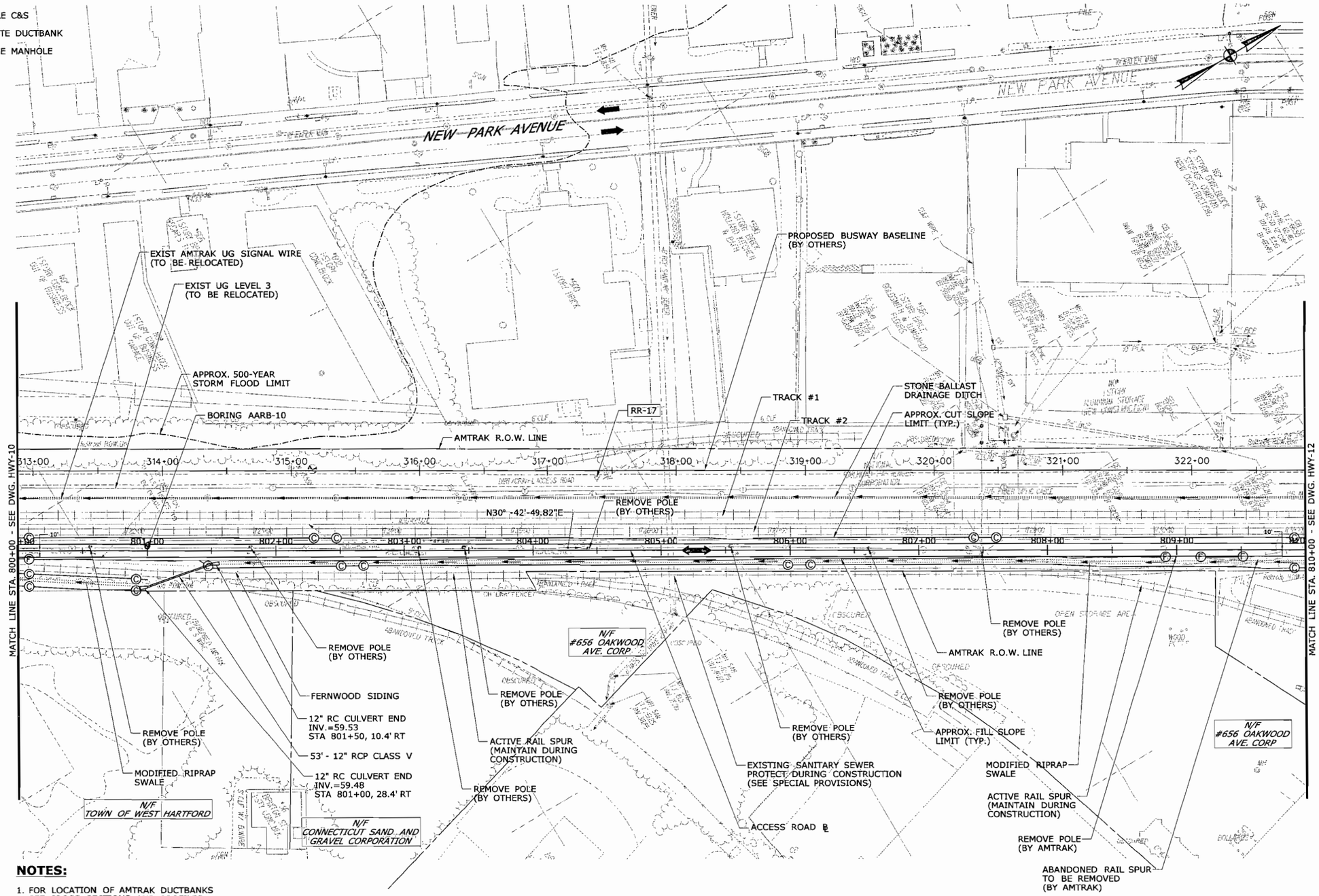
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-10
SHEET NO. 83

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-11.dgn

MICHAEL BAKER ENGINEERING, INC.

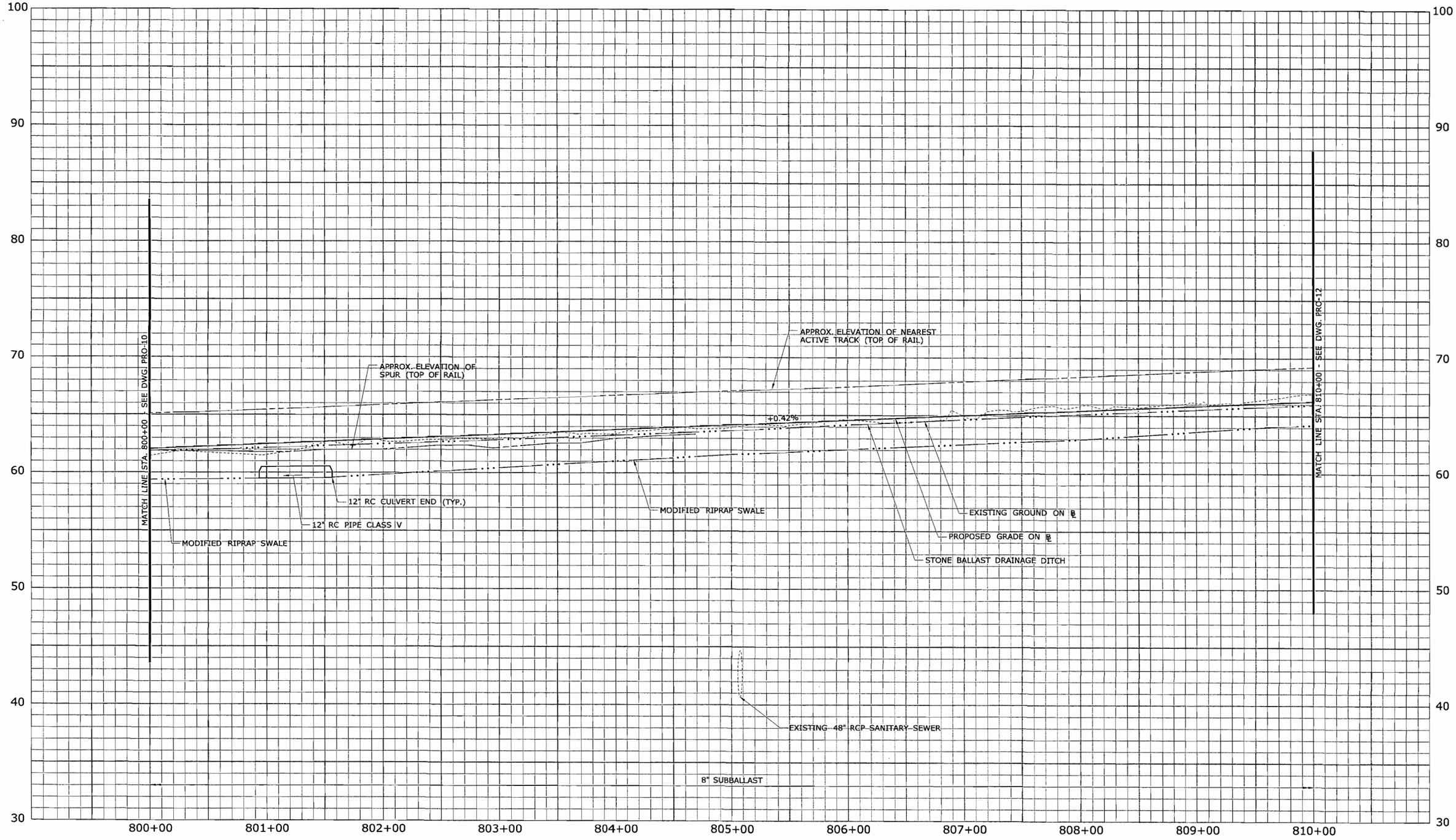
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-11
SHEET NO. 84



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093.H052.PRO-11.dgn

MICHAEL BAKER ENGINEERING, INC.

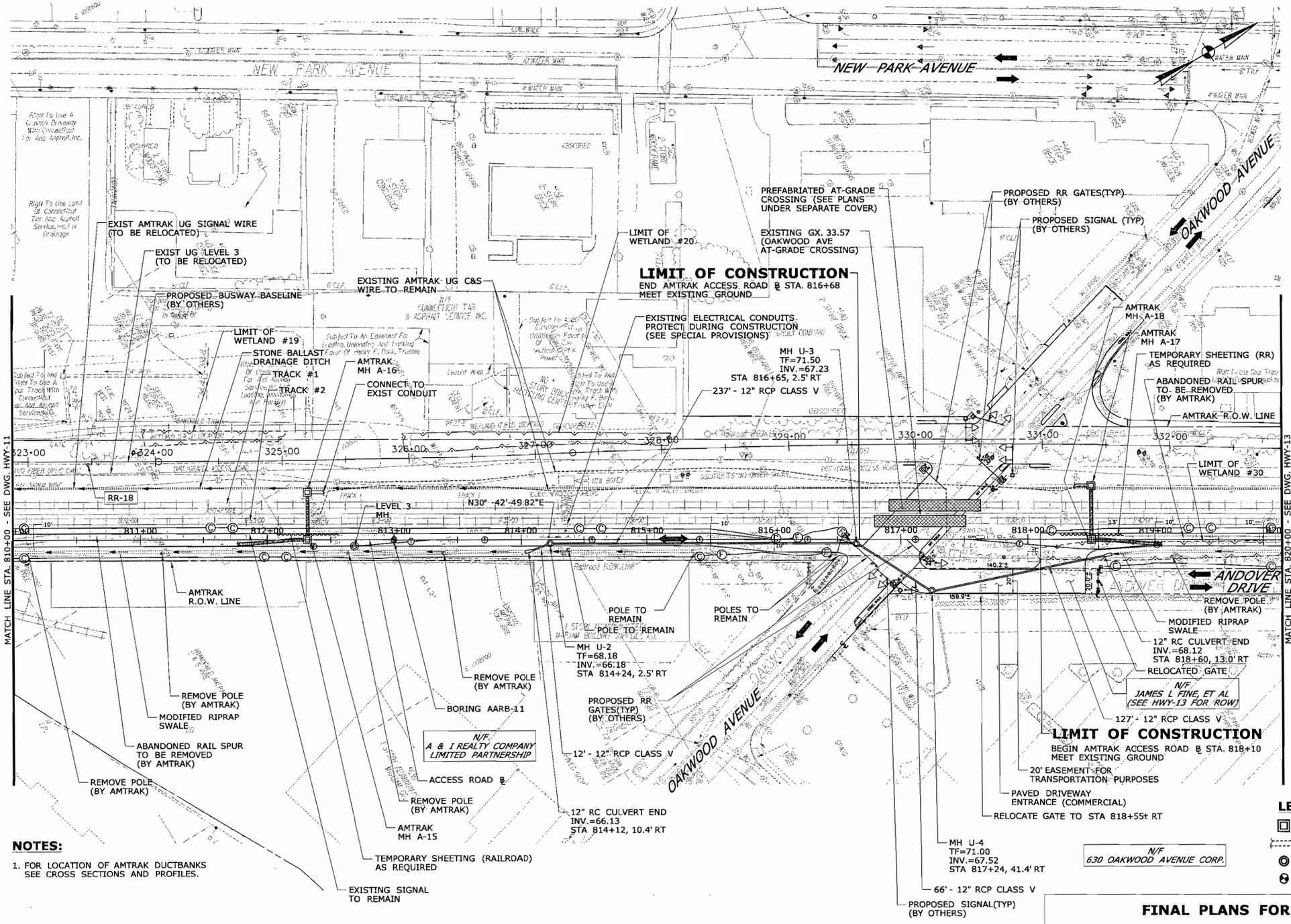
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-11
SHEET NO. 85



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW-MSH-093-H052-PLN-12.dgn

MICHAEL BAKER ENGINEERING, INC.

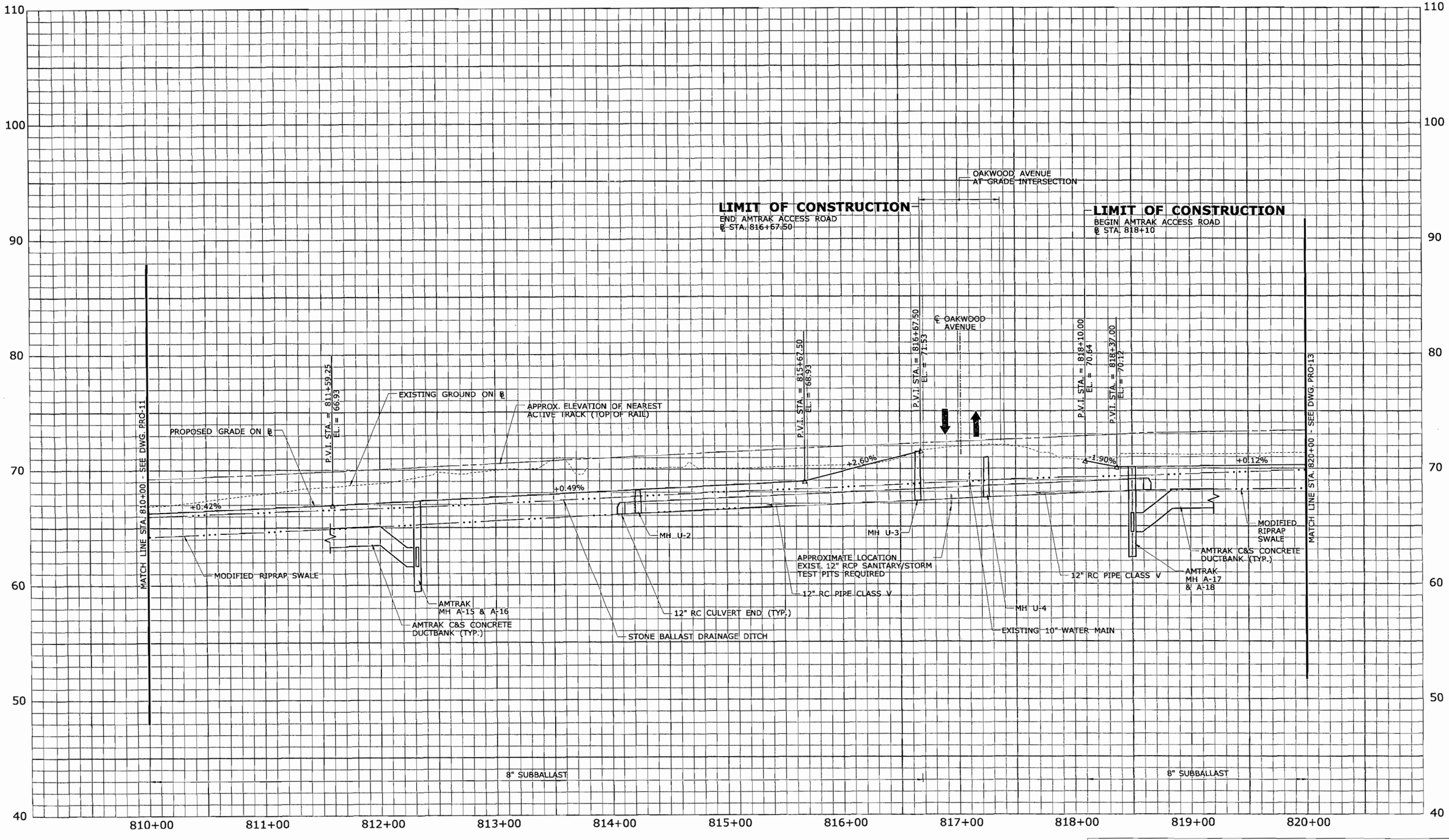
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-12
SHEET NO. 86



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-12.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

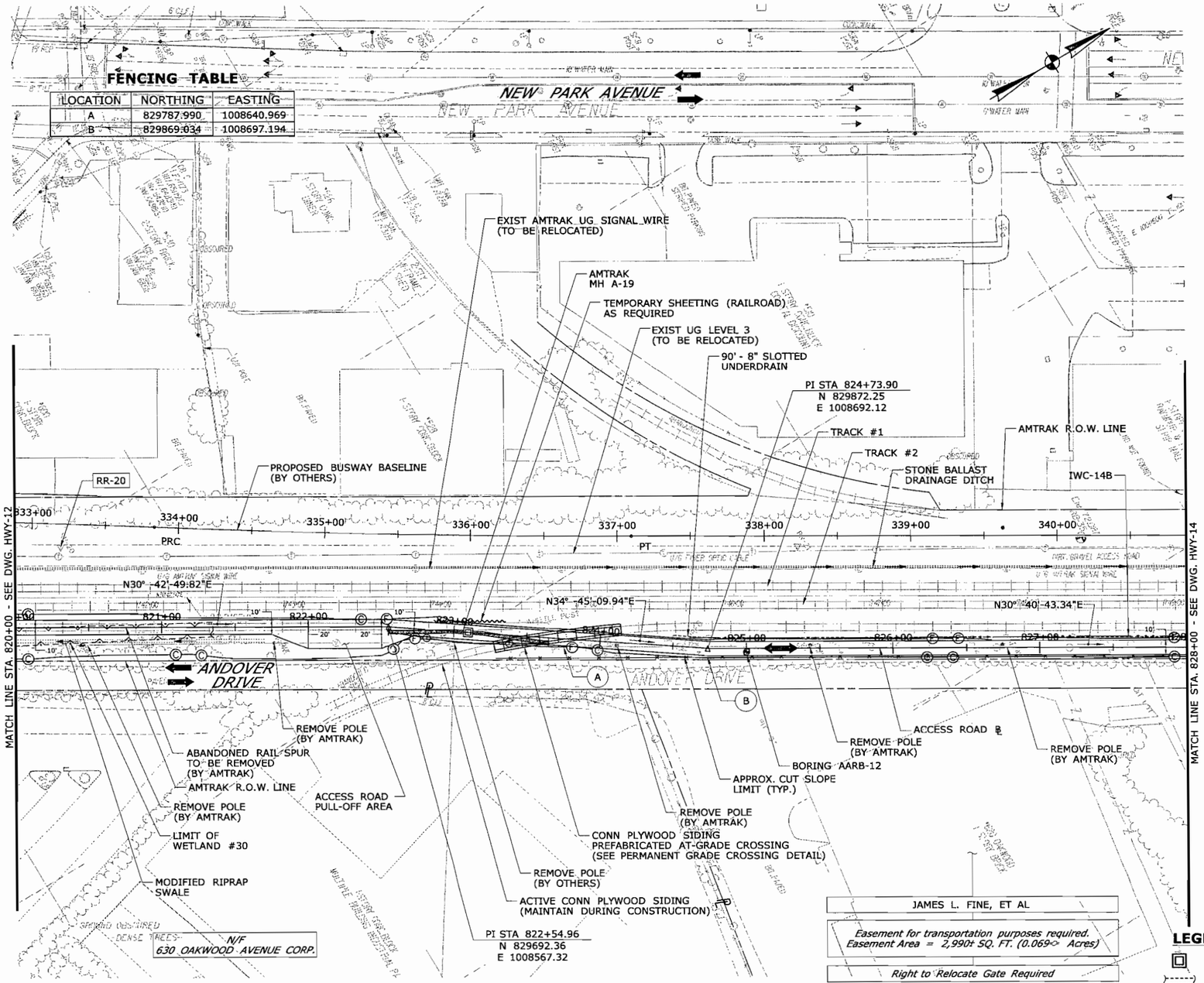
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-12
SHEET NO. 87

FENCING TABLE

LOCATION	NORTHING	EASTING
A	829787.990	1008640.969
B	829869.034	1008697.194



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANK SEE CROSS SECTIONS AND PROFILES.

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-13.dgn

MICHAEL BAKER ENGINEERING, INC.

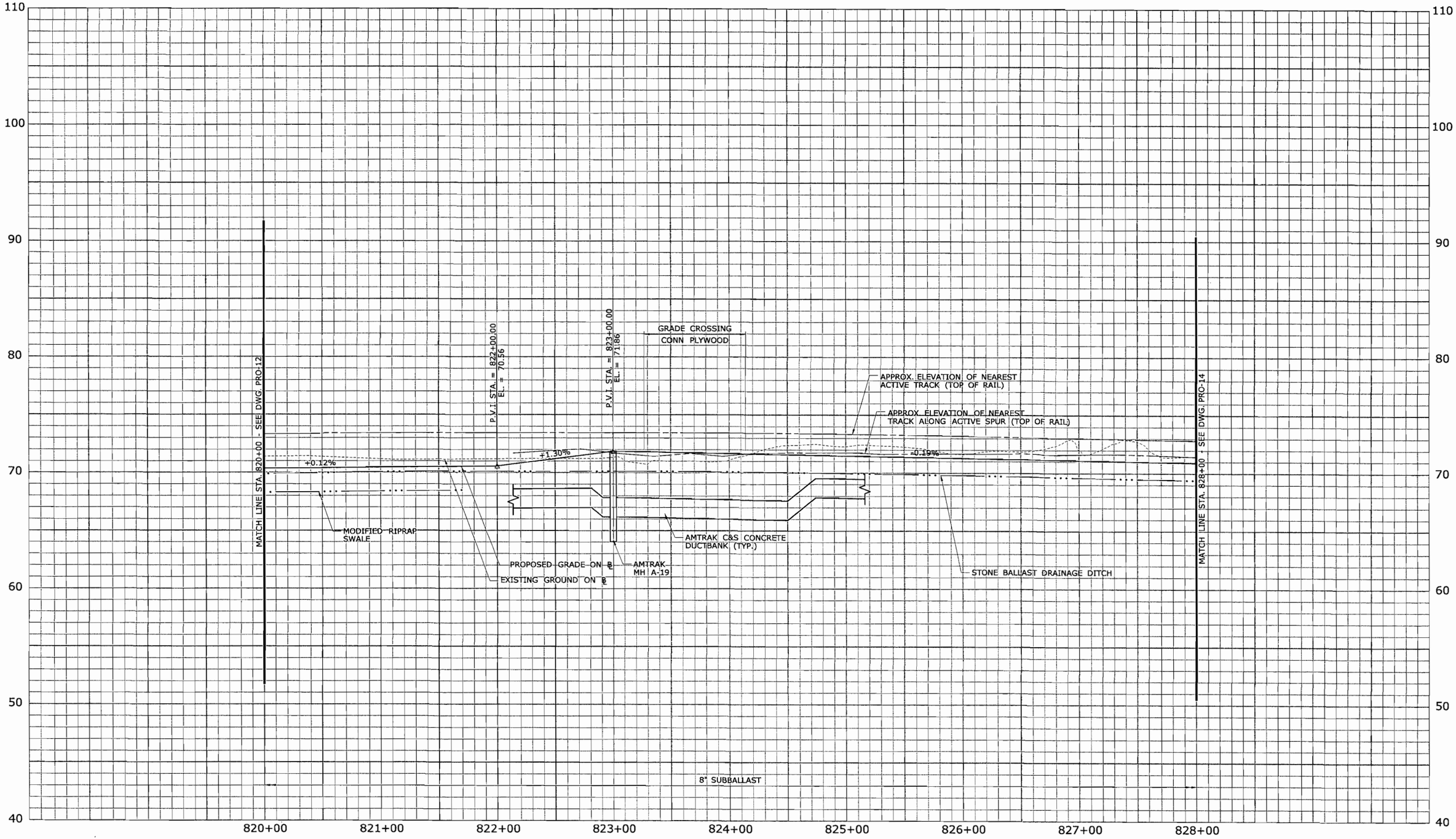
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: **NEWINGTON, WEST HARTFORD & HARTFORD**

DRAWING TITLE: **ROADWAY PLAN**

PROJECT NO. **093-H052**
DRAWING NO. **HWY-13**
SHEET NO. **88**



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW..MSH..093..H052..PRO-13.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PROFILE ACCESS ROAD ℄

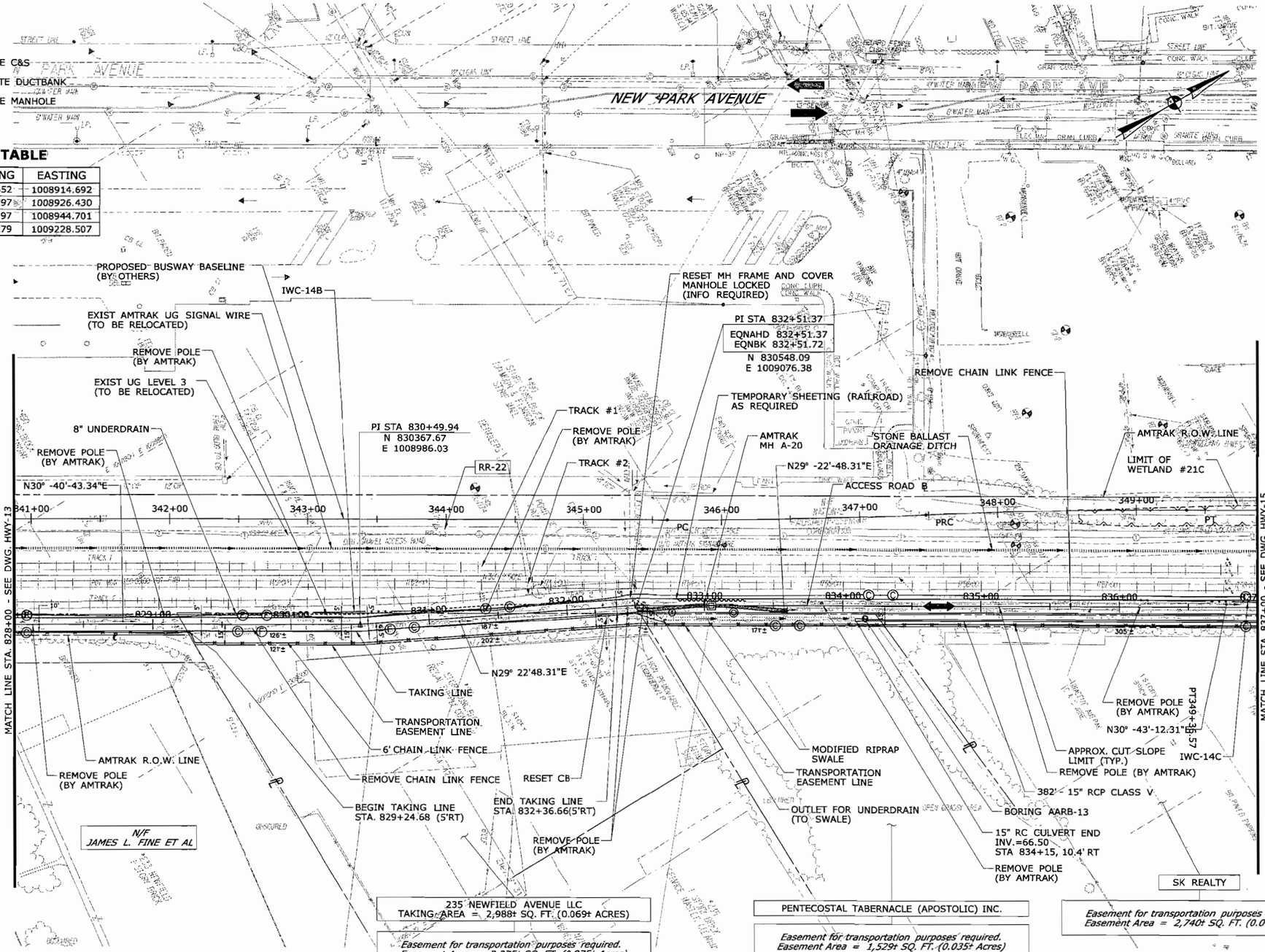
PROJECT NO. 093-H052
DRAWING NO. PRO-13
SHEET NO. 89

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FENCING TABLE

LOCATION	NORTHING	EASTING
C	830235.652	1008914.692
D	830257.397	1008926.430
E	830288.197	1008944.701
F	830792.279	1009228.507



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-14.dgn

MICHAEL BAKER ENGINEERING, INC.

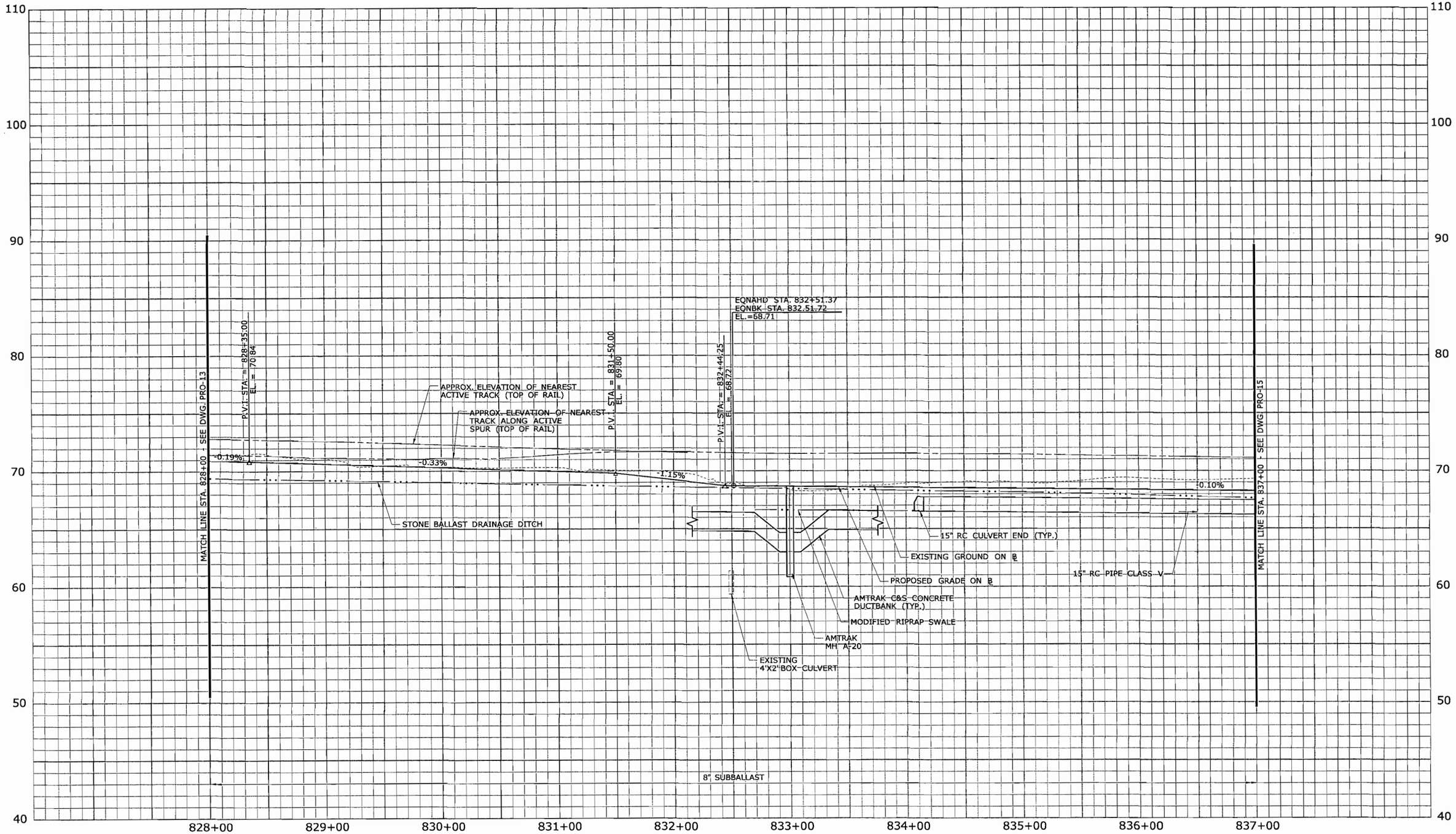
APPROVED BY: -
DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-14
SHEET NO. 90



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-14.dgn

MICHAEL BAKER ENGINEERING, INC.

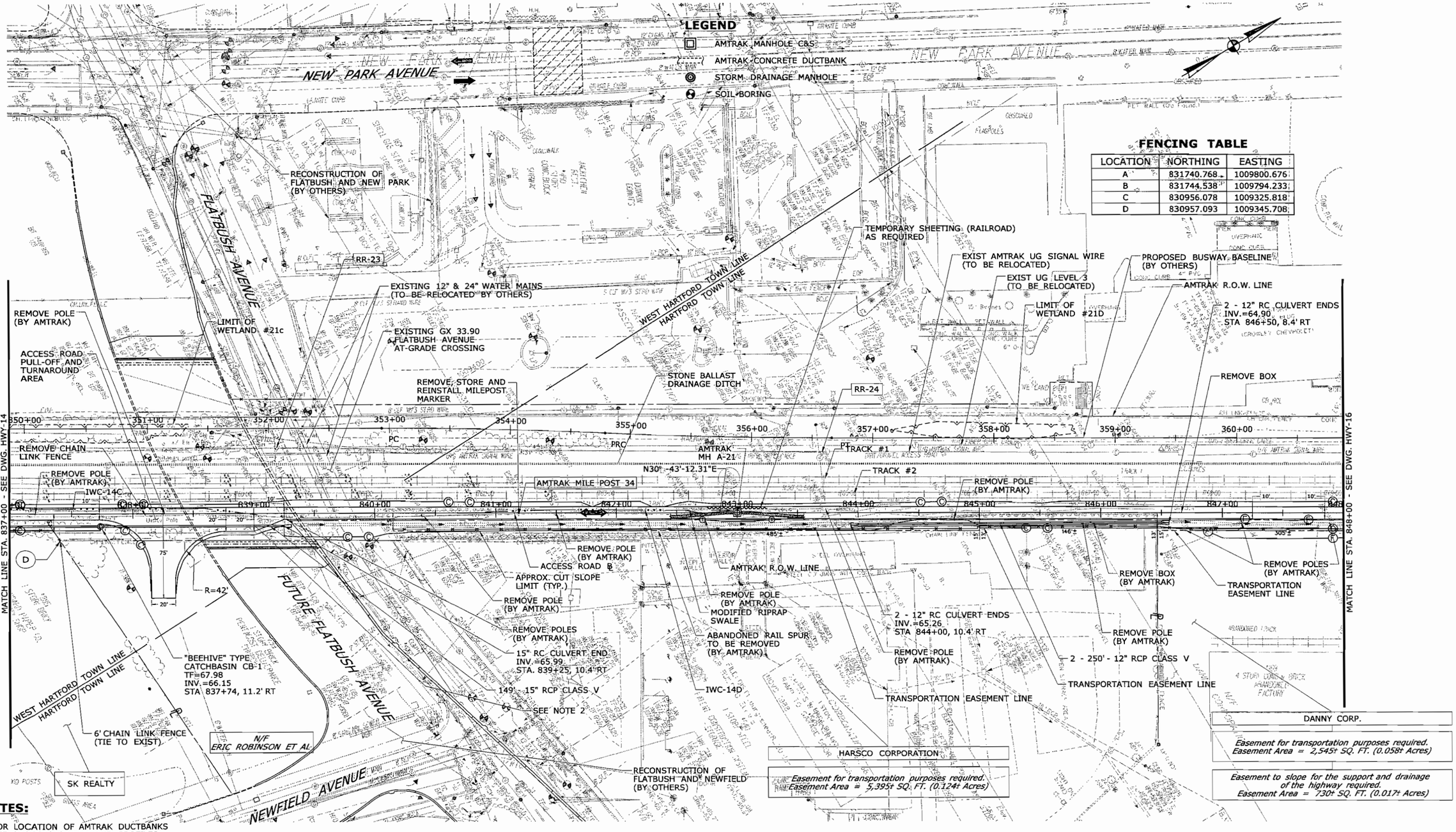
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-14
SHEET NO. 91



FENCING TABLE

LOCATION	NORTHING	EASTING
A	831740.768	1009800.676
B	831744.538	1009794.233
C	830956.078	1009325.818
D	830957.093	1009345.708

NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.
2. PROPOSED SWALE CONSTRUCTION FROM STA. 839+00 TO 840+00 TO BE COORDINATED WITH FLATBUSH AVE. STAGE CONSTRUCTION.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-15.dgn

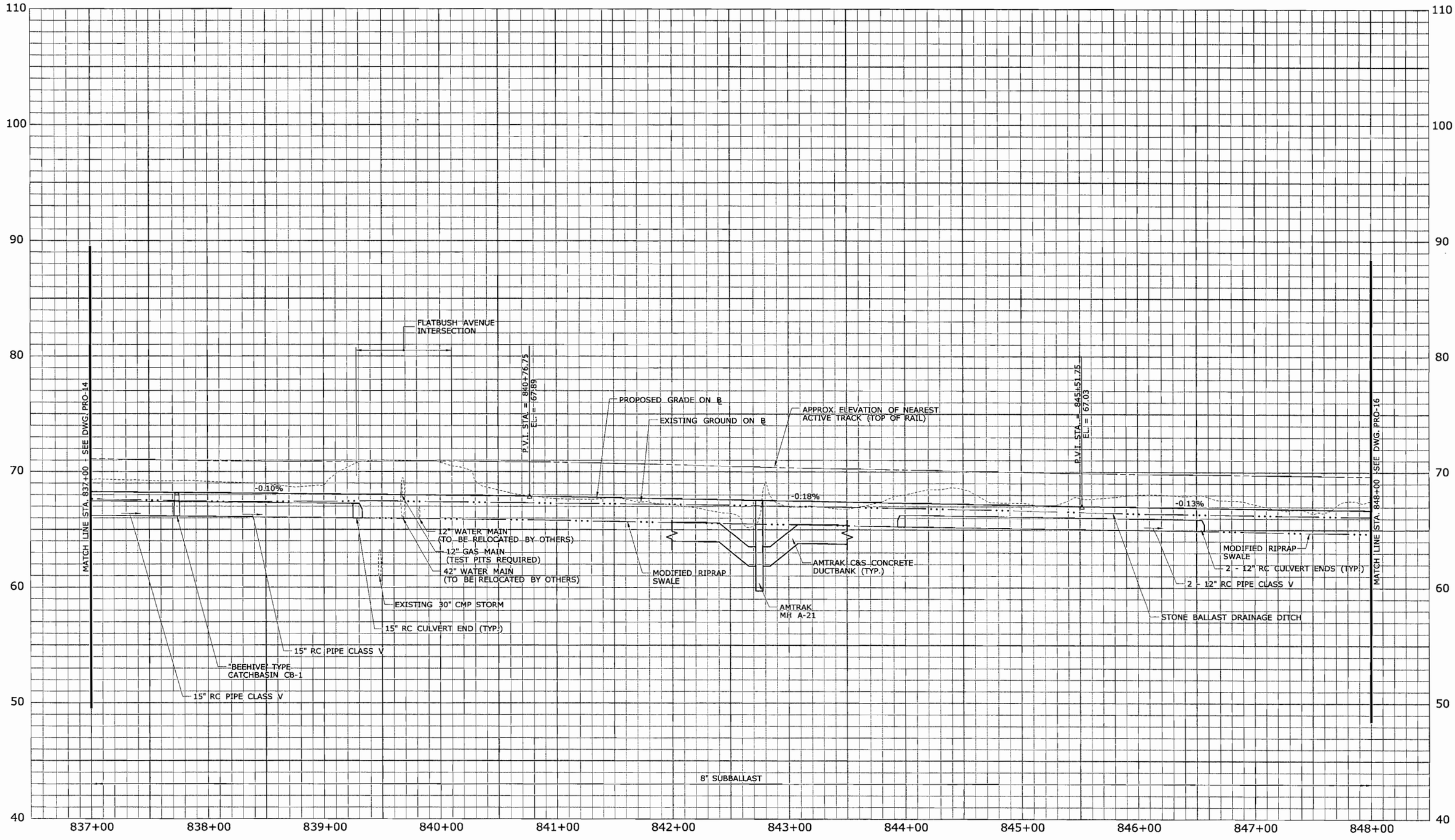
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-15
SHEET NO. 92



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-15.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PROFILE ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-15
SHEET NO. 93

LEGEND

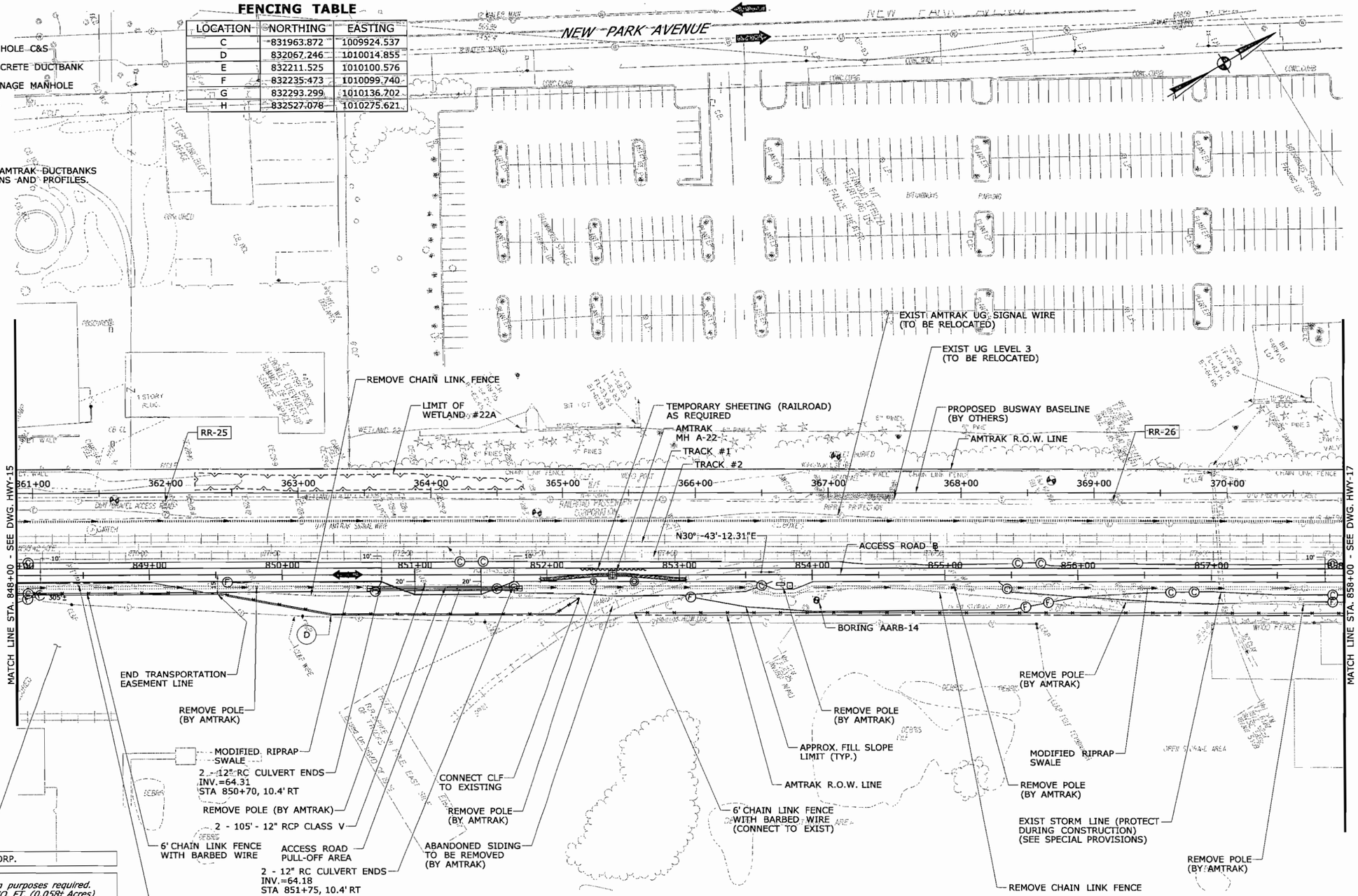
- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FENCING TABLE

LOCATION	NORTHING	EASTING
C	831963.872	1009924.537
D	832067.246	1010014.855
E	832211.525	1010100.576
F	832235.473	1010099.740
G	832293.299	1010136.702
H	832527.078	1010275.621



DANNY CORP.

Easement for transportation purposes required.
Easement Area = 2,545± SQ. FT. (0.058± Acres)

Easement to slope for the support and drainage of the highway required.
Easement Area = 730± SQ. FT. (0.017± Acres)

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-16.dgn

MICHAEL BAKER ENGINEERING, INC.

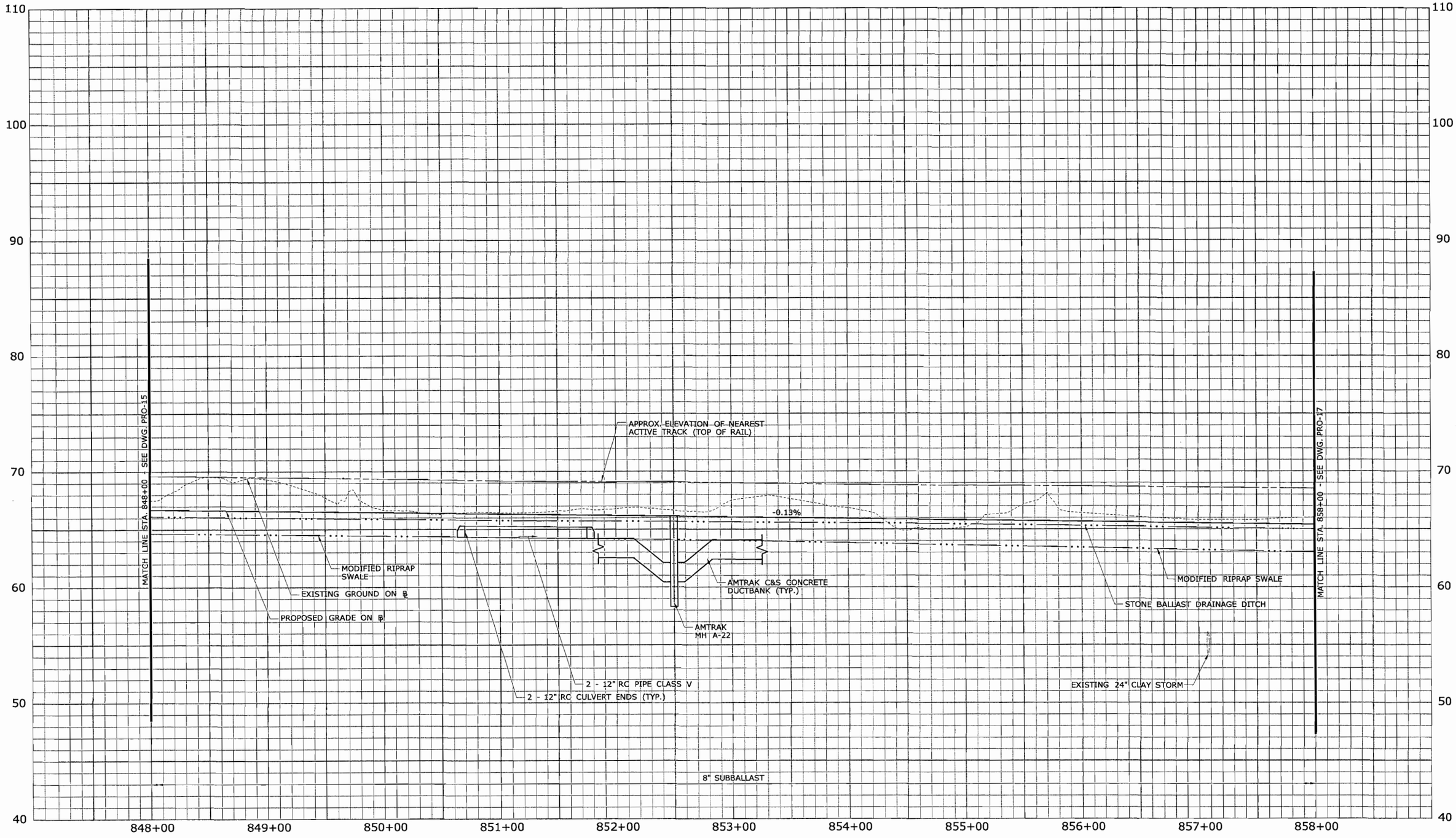
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-16
SHEET NO. 94



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-

Plotted: 7/17/2010

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DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-16.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

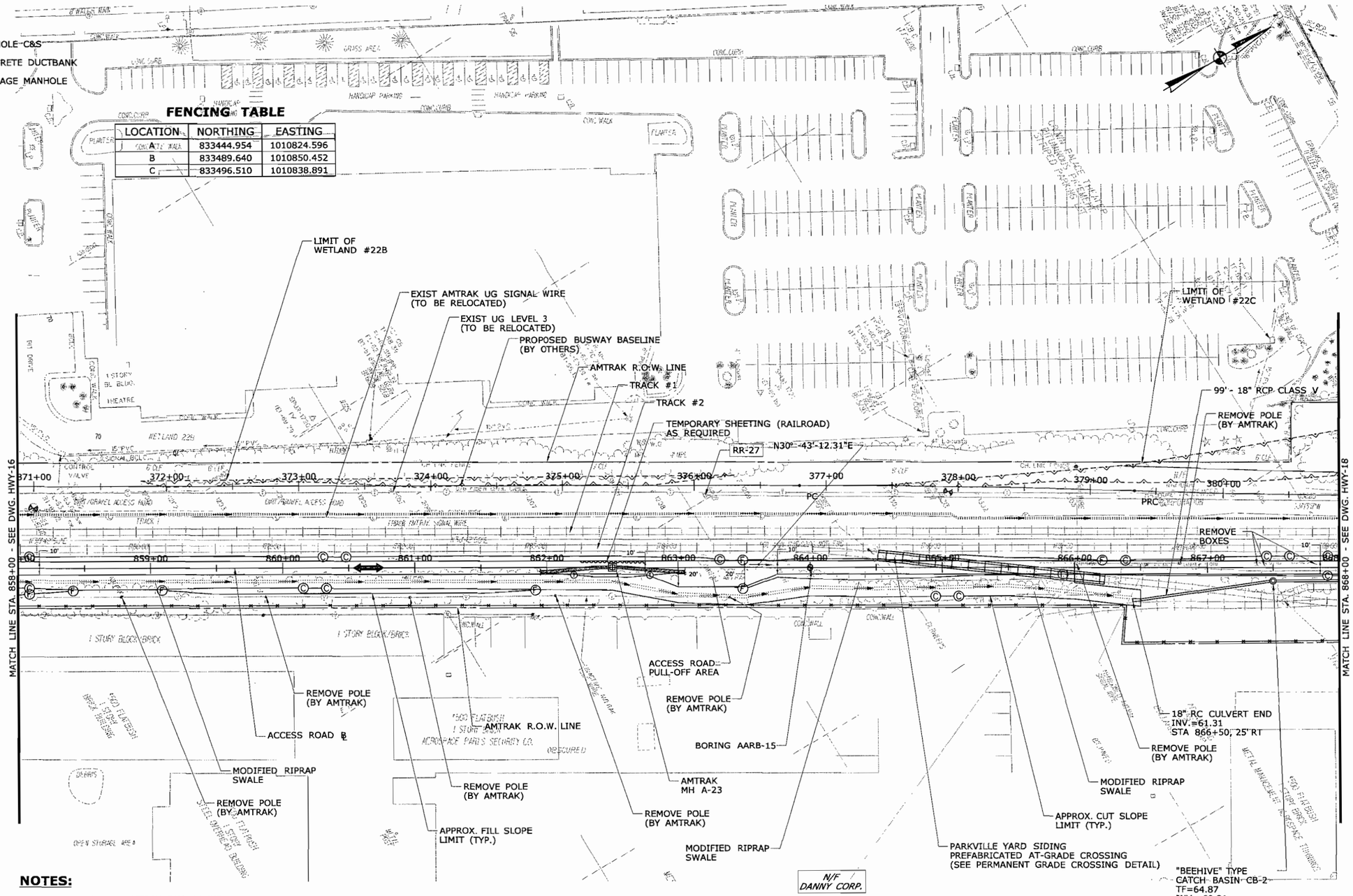
PROJECT NO. 093-H052
DRAWING NO. PRO-16
SHEET NO. 95

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FENCING TABLE

LOCATION	NORTHING	EASTING
A	833444.954	1010824.596
B	833489.640	1010850.452
C	833496.510	1010838.891



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.

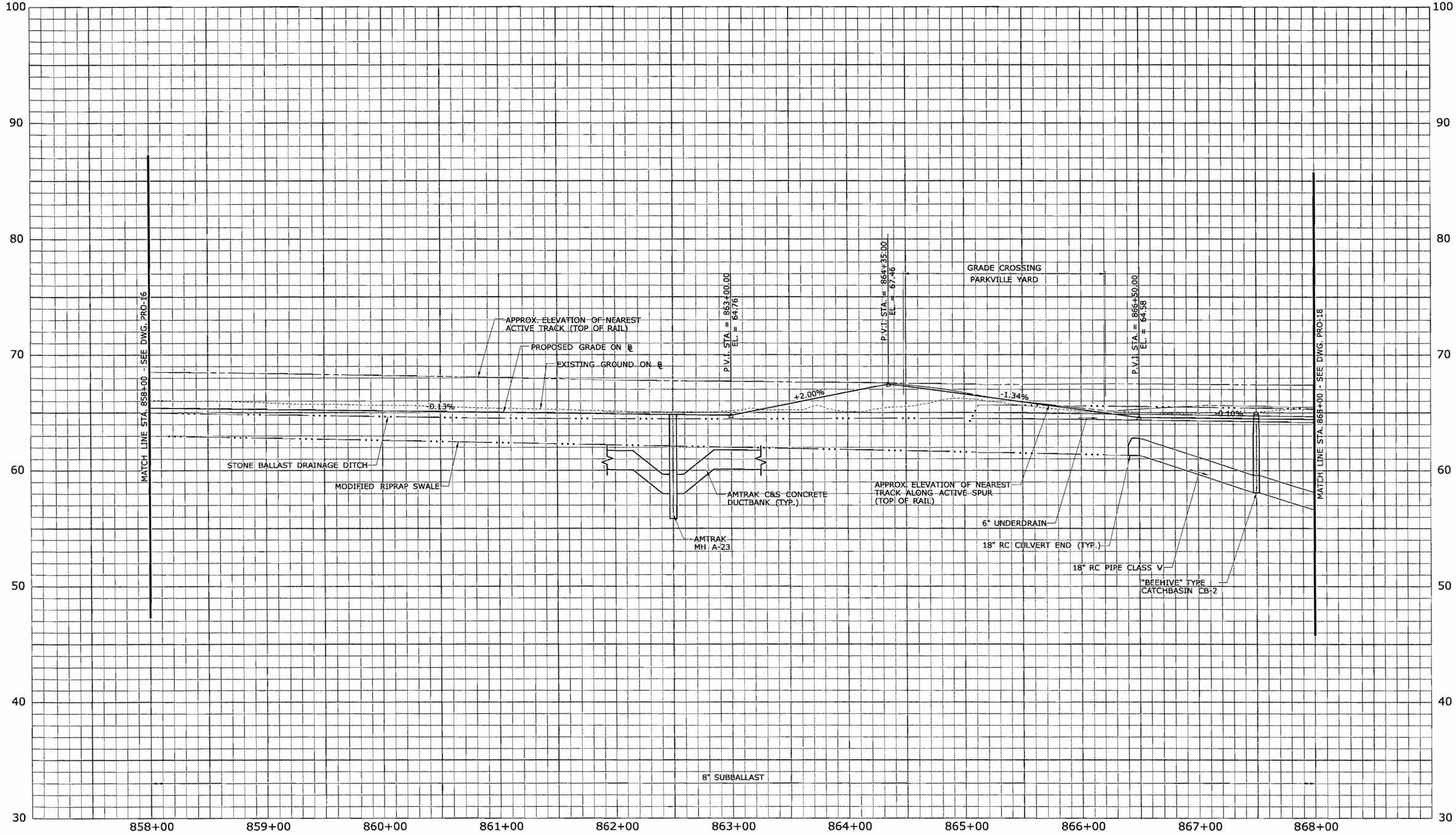
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-17
SHEET NO. 96



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-17.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE ACCESS ROAD ℄

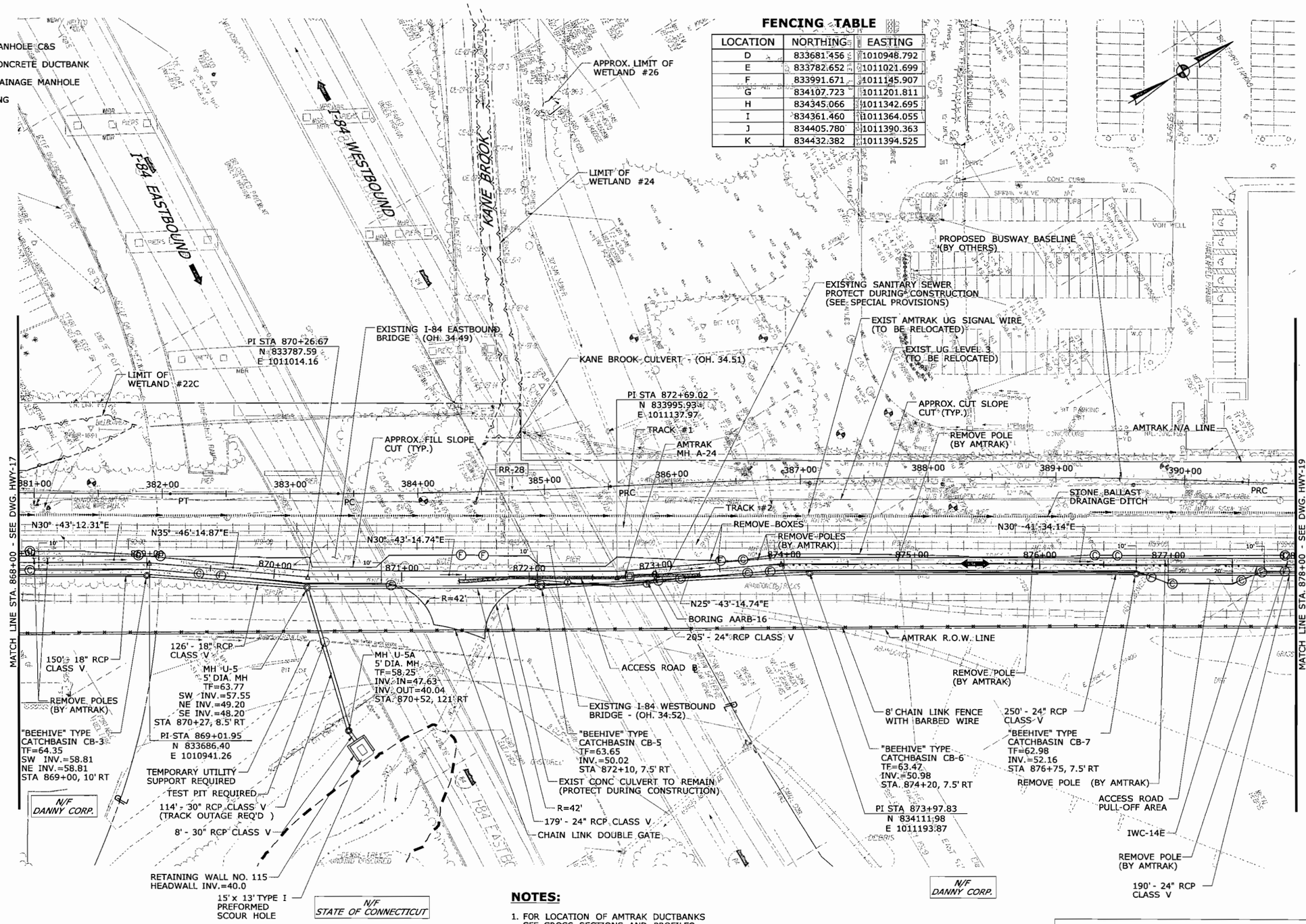
PROJECT NO. 093-H052
DRAWING NO. PRO-17
SHEET NO. 97

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FENCING TABLE

LOCATION	NORTHING	EASTING
D	833681.456	1010948.792
E	833782.652	1011021.699
F	833991.671	1011145.907
G	834107.723	1011201.811
H	834345.066	1011342.695
I	834361.460	1011364.055
J	834405.780	1011390.363
K	834432.382	1011394.525



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Plotted: $DATE$

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

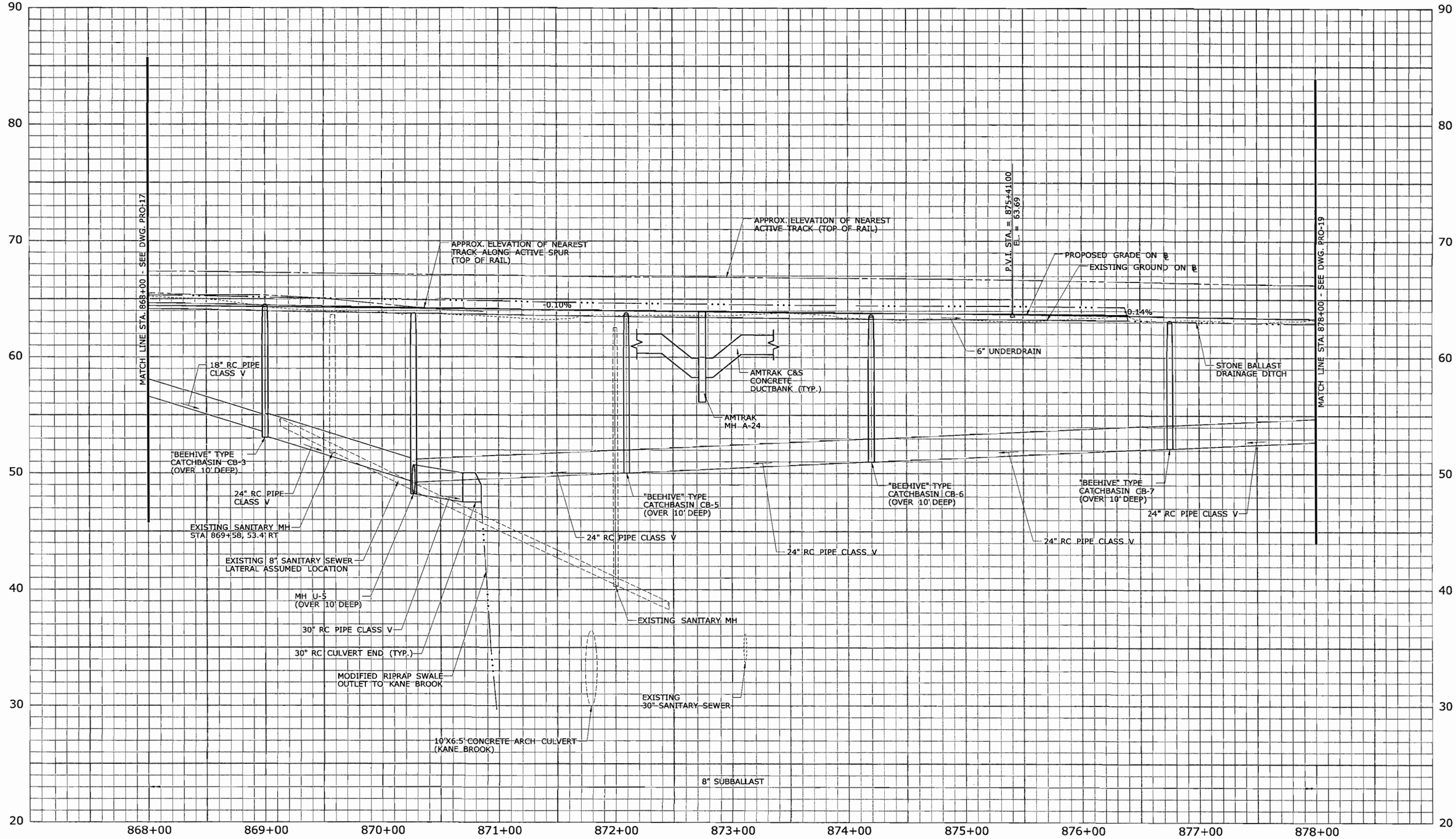
Filename: $FILE$

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-18
SHEET NO. 98



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-18.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PROFILE ACCESS ROAD ℄

PROJECT NO. 093-H052

DRAWING NO. PRO-18

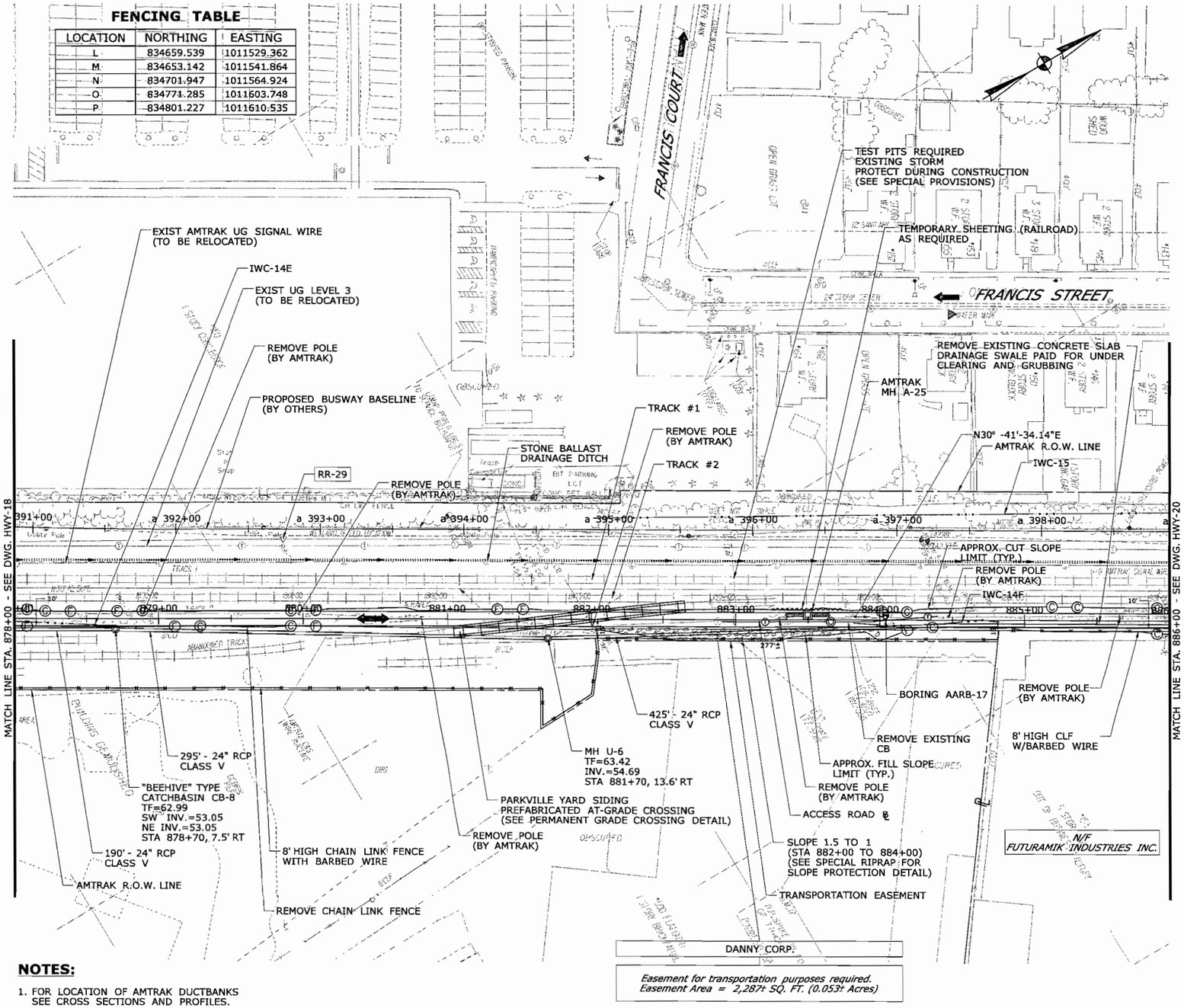
SHEET NO. 99

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FENCING TABLE

LOCATION	NORTHING	EASTING
L	834659.539	1011529.362
M	834653.142	1011541.864
N	834701.947	1011564.924
O	834771.285	1011603.748
P	834801.227	1011610.535



Easement for transportation purposes required.
Easement Area = 2,287± SQ. FT. (0.053± Acres)

NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

MICHAEL BAKER ENGINEERING, INC.

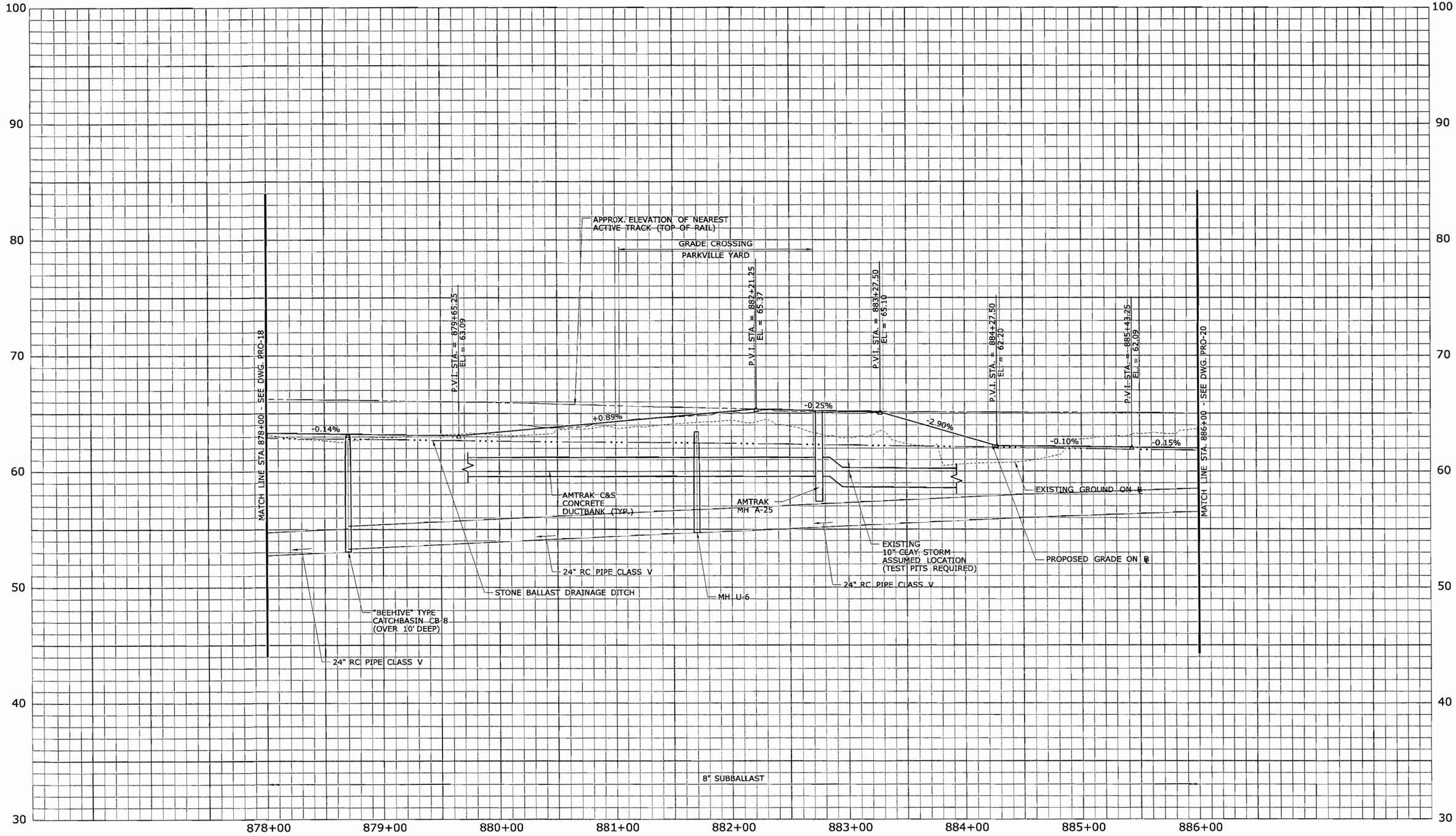
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-19
SHEET NO. 100



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-19.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-19
SHEET NO. 101

LEGEND

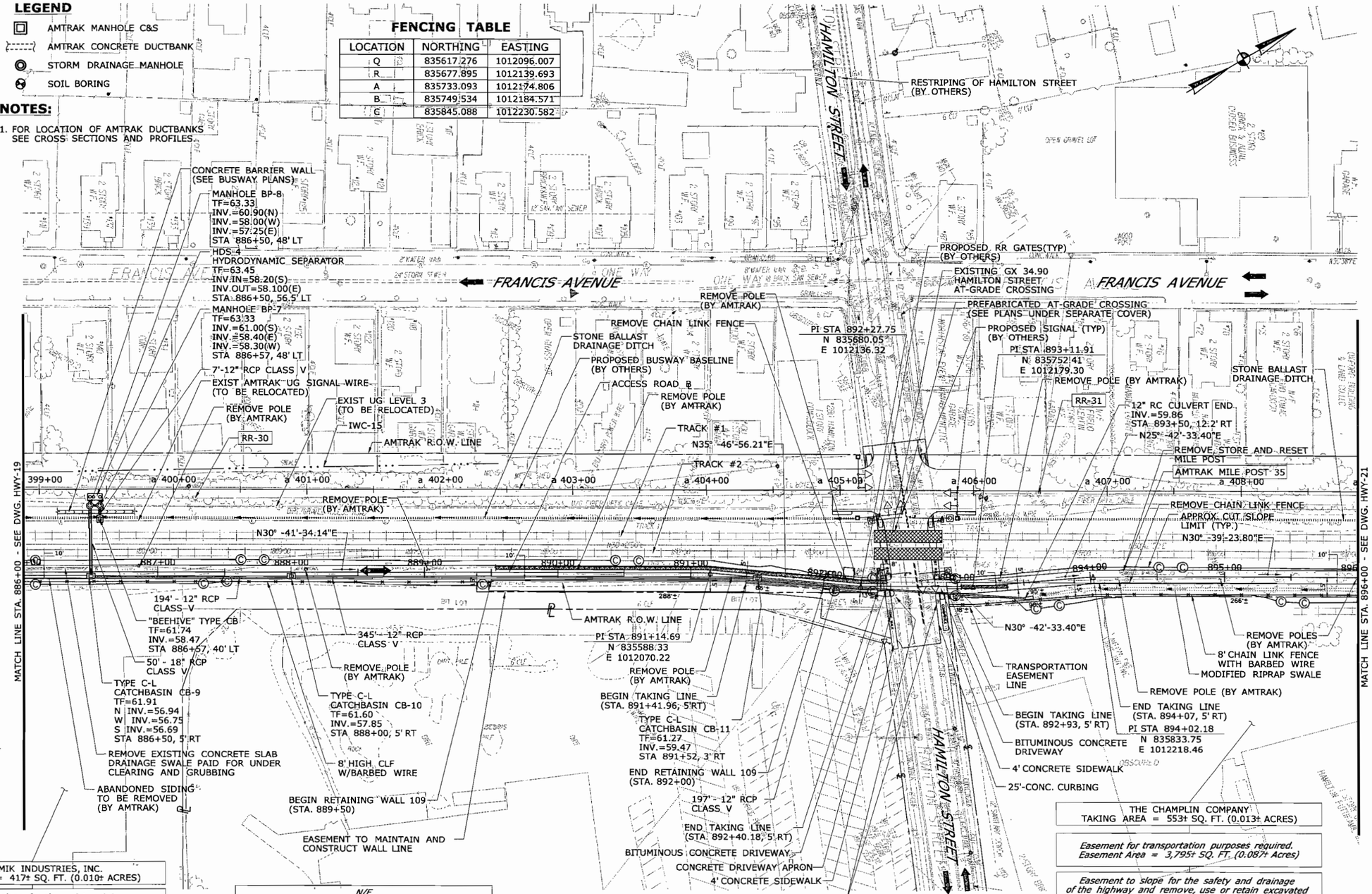
- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FENCING TABLE

LOCATION	NORTHING	EASTING
Q	835617.276	1012096.007
R	835677.895	1012139.693
A	835733.093	1012174.806
B	835749.534	1012184.571
C	835845.088	1012230.582



LIMIT OF CONSTRUCTION

END AMTRAK ACCESS ROAD @ STA. 892+52
BEGIN AMTRAK ACCESS ROAD @ STA. 892+90
CUT BITUMINOUS PAVEMENT
MEET EXISTING PAVEMENT

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

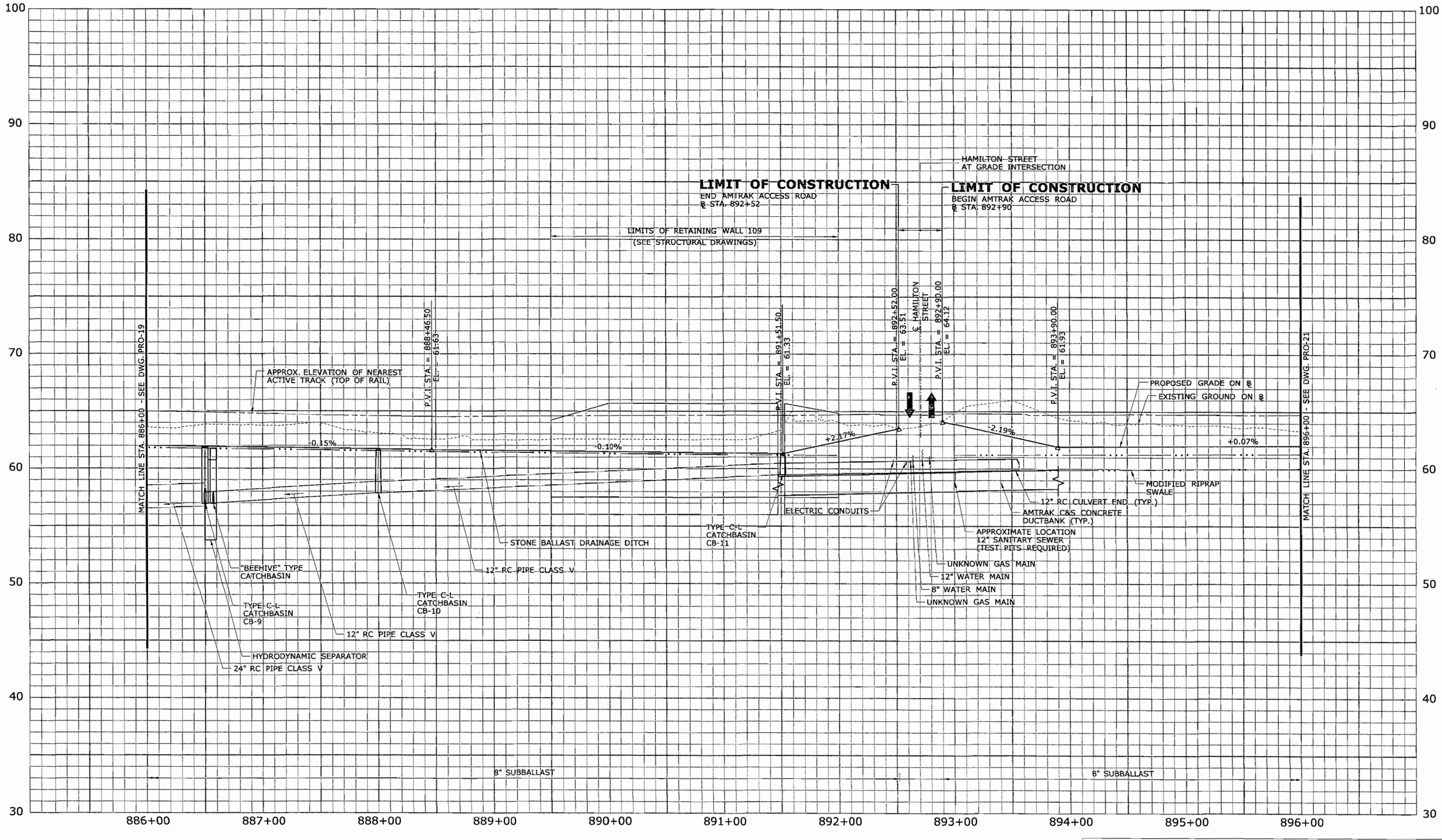
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-20
SHEET NO. 102



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-20.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

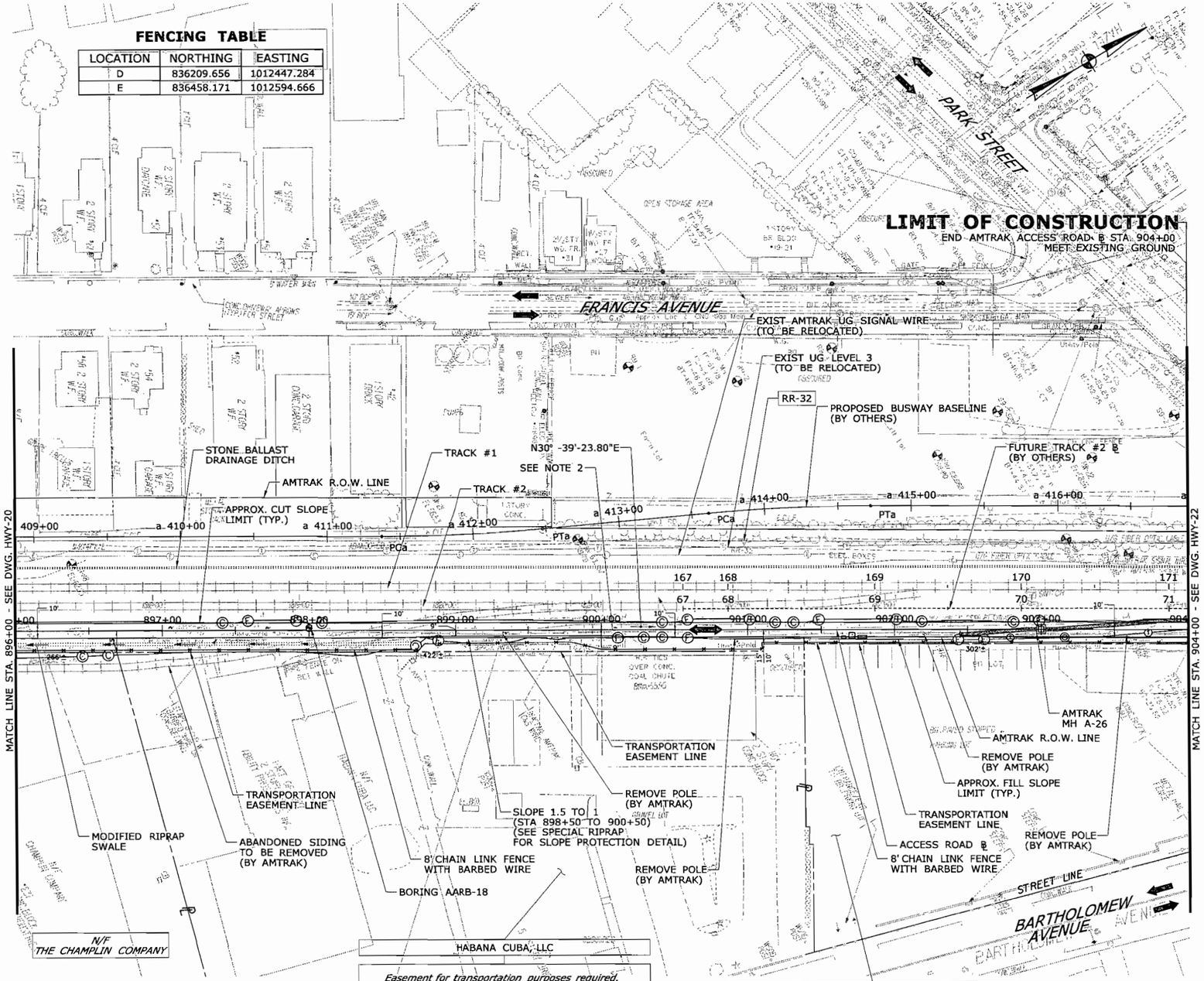
PROJECT NO. 093-H052
DRAWING NO. PRO-20
SHEET NO. 103

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

FENCING TABLE

LOCATION	NORTHING	EASTING
D	836209.656	1012447.284
E	836458.171	1012594.666



NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.
2. APPROXIMATE LOCATION OF EXISTING UNDERGOUND STRUCTURE. REMOVE TO 6' BELOW FINISHED GRADE AND FILL WITH FLOWABLE FILL.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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-	-	-	-
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-21.dgn

MICHAEL BAKER ENGINEERING, INC.

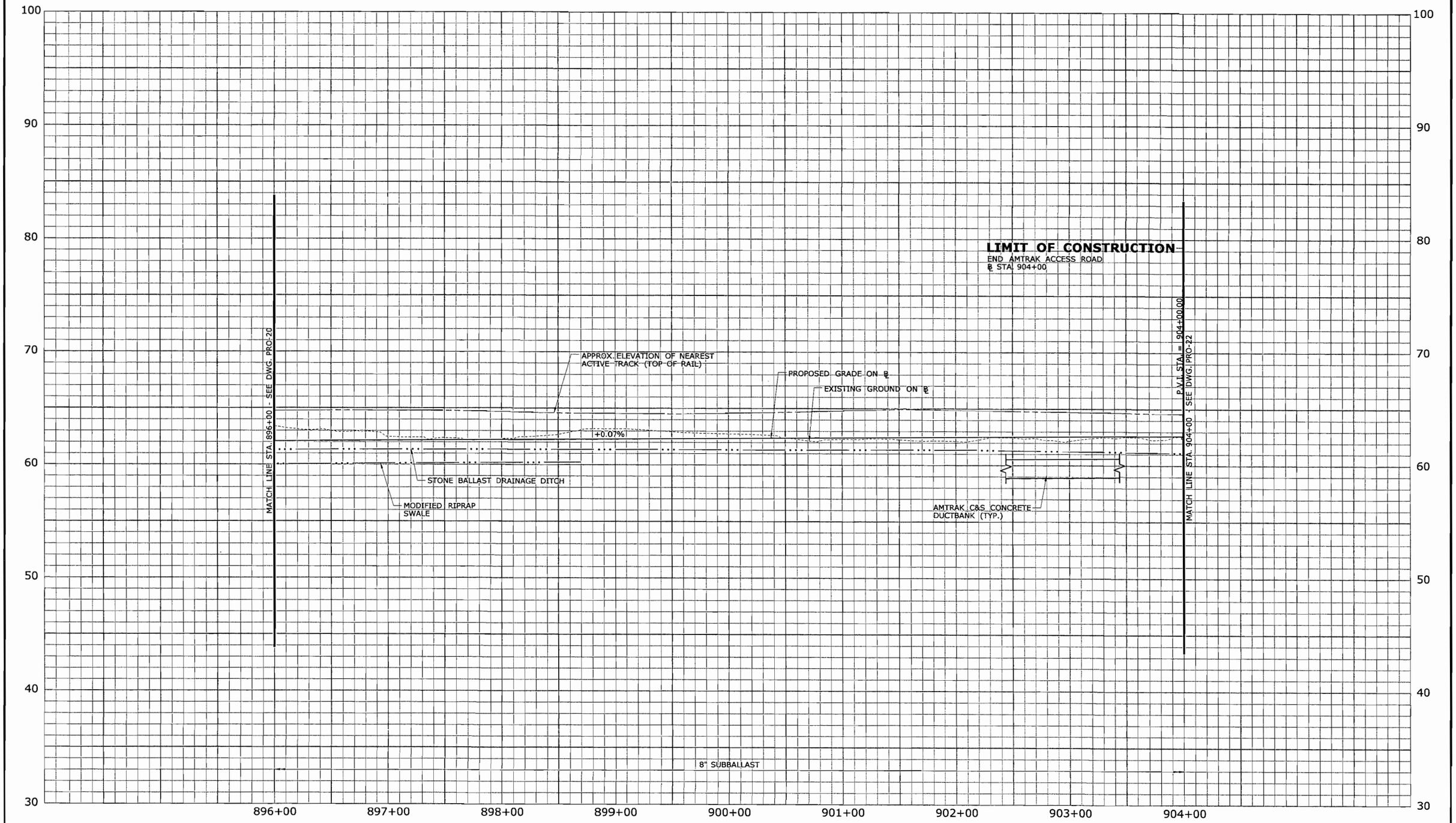
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-21
SHEET NO. 104



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-21.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-21
SHEET NO. 105

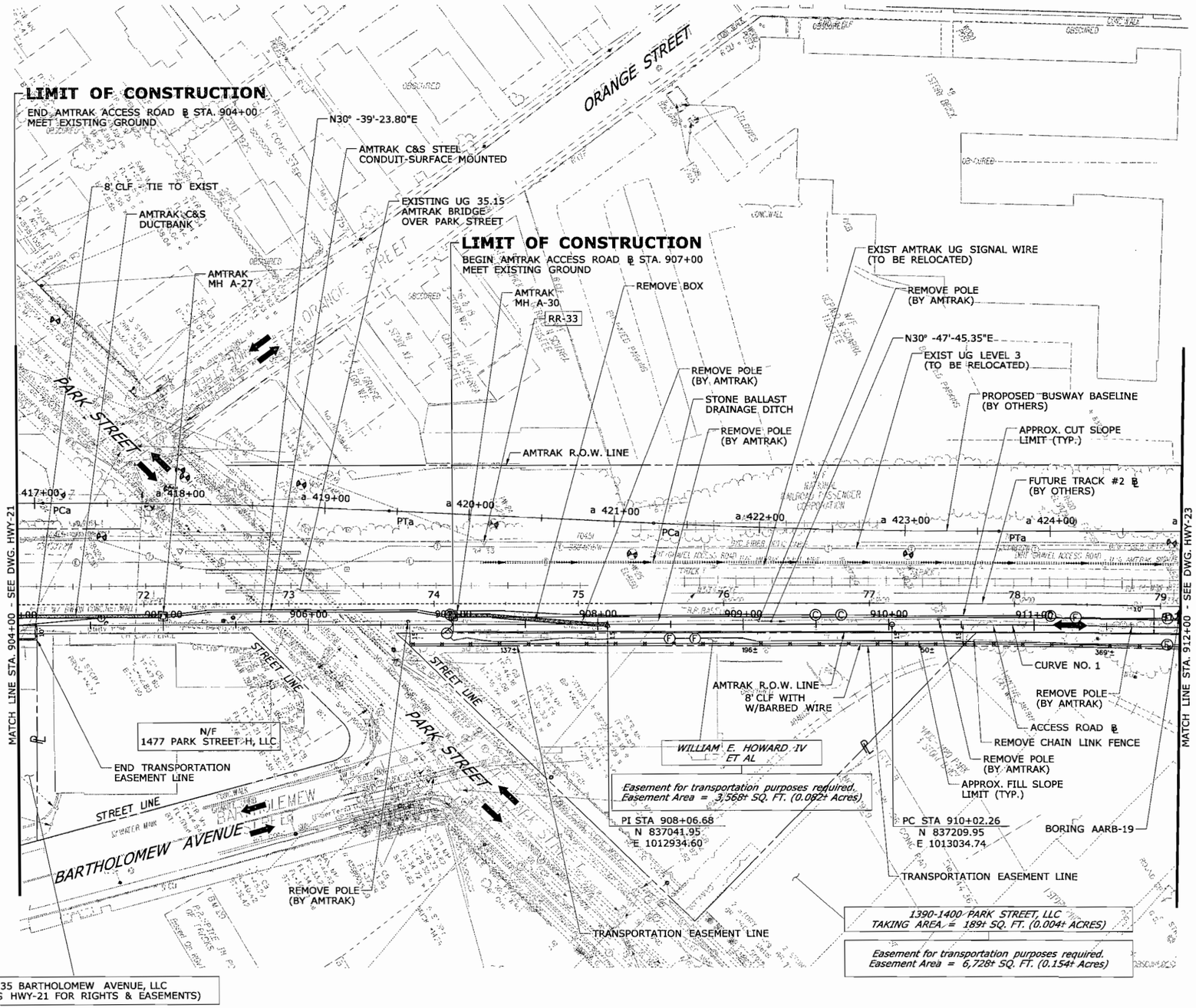
LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

CURVE NO. 1	
ACCESS ROAD ℄	
P.C.	STA. 910+02.26
	N 837209.95
	E 1013034.74
P.C.C.	STA. 914+20.93
	N 837565.78
	E 1013255.32
Δ	1°-59'-56.52"
T	209.36'
L	418.68'
R	12000.00'



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-22.dgn

MICHAEL BAKER ENGINEERING, INC.

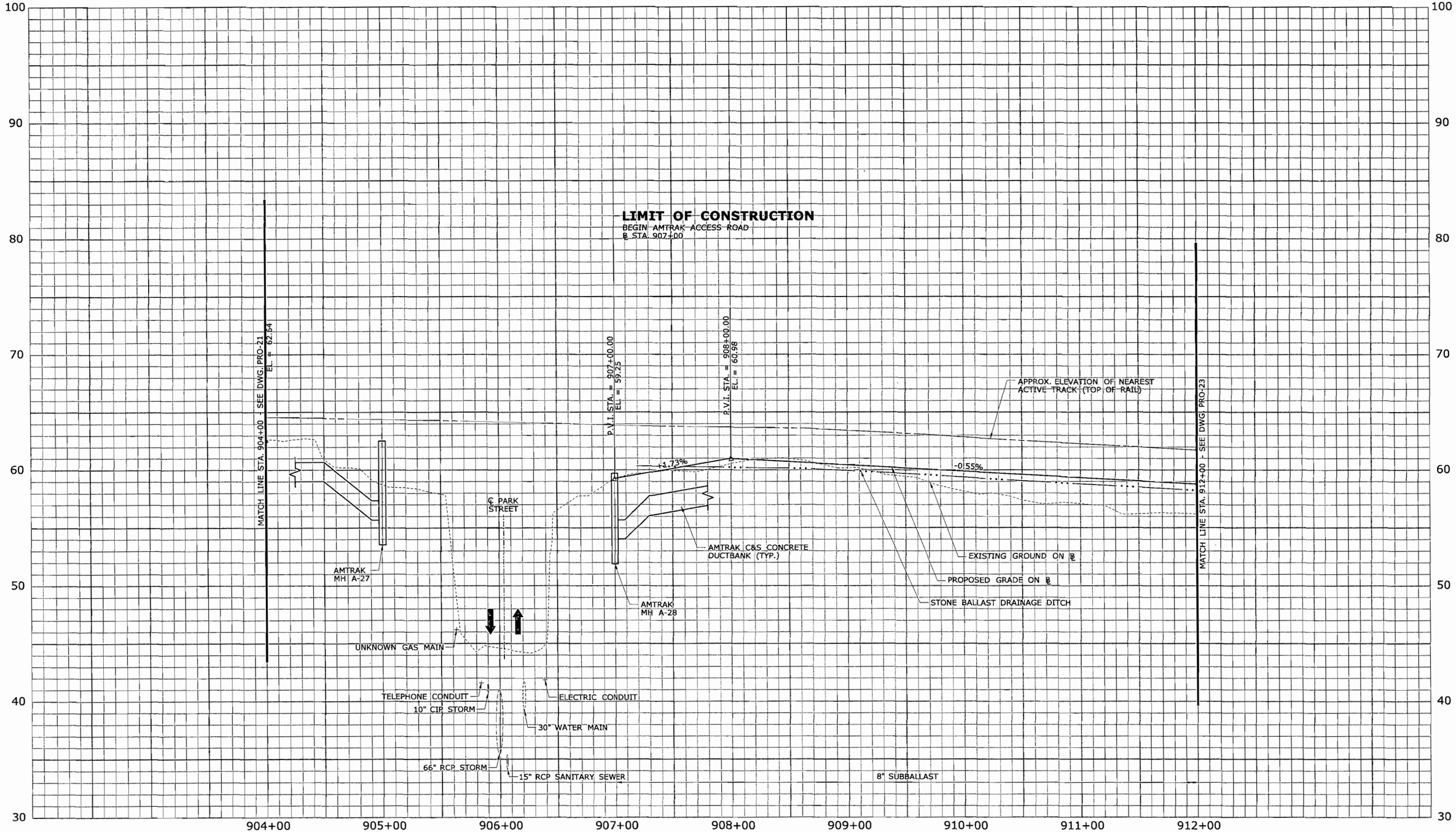
APPROVED BY: - DATE: -

PROJECT TITLE: NEW BRITAIN - HARTFORD BUSWAY AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-22
SHEET NO. 106



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-22.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-22
SHEET NO. 107

LEGEND

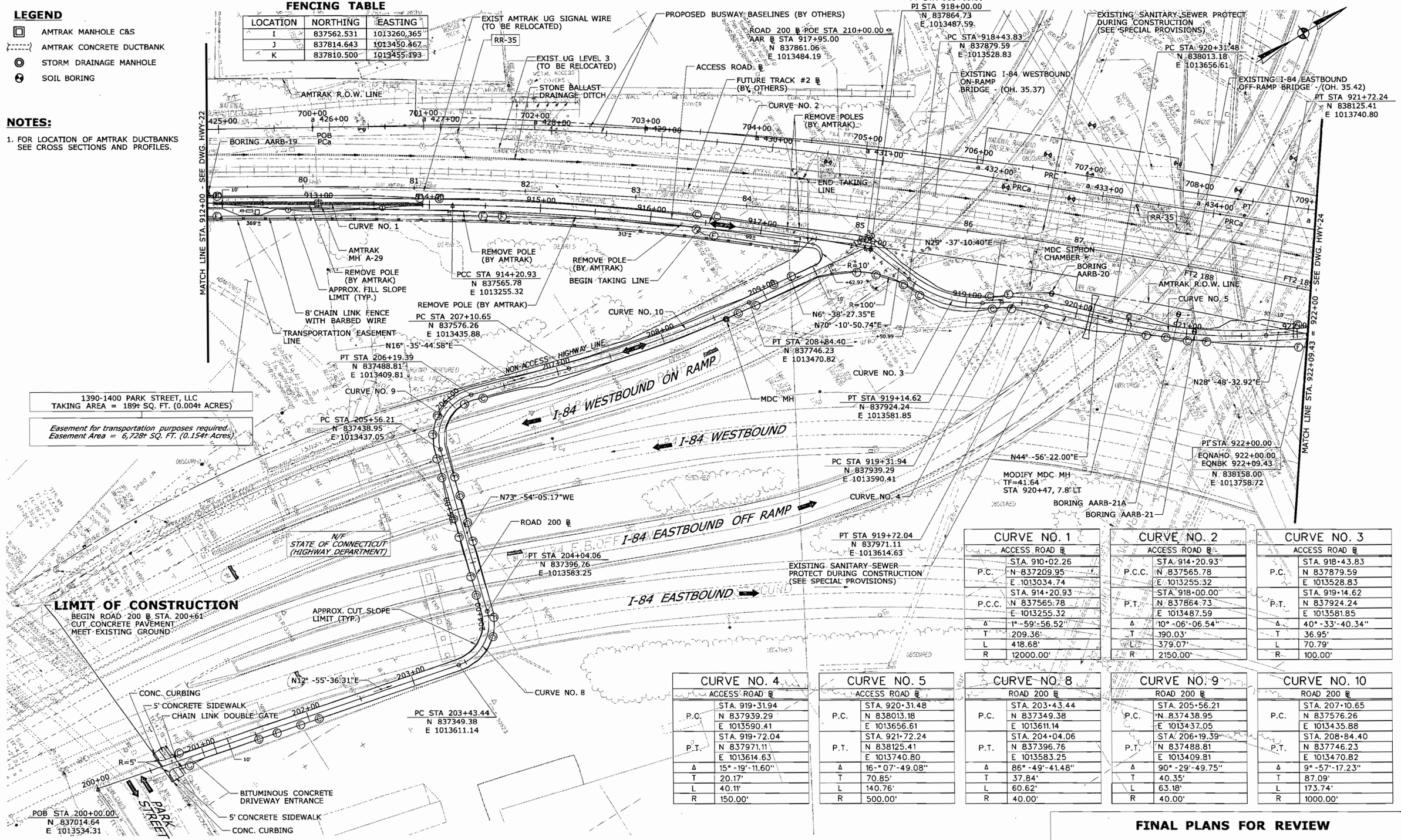
- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.

FENCING TABLE

LOCATION	NORTHING	EASTING
I	837562.531	1013260.365
J	837814.643	1013450.467
K	837810.500	1013455.193



1390-1400 PARK STREET, LLC
TAKING AREA = 189± SQ. FT. (0.004± ACRES)

Easement for transportation purposes required.
Easement Area = 6,728± SQ. FT. (0.154± Acres)

CURVE NO. 1	
ACCESS ROAD ℄	
P.C.	STA. 910+02.26
	N 837209.95
	E 1013034.74
P.C.C.	STA. 914+20.93
	N 837565.78
	E 1013255.32
Δ	1°-59'-56.52"
T	209.36'
L	418.68'
R	12000.00'

CURVE NO. 2	
ACCESS ROAD ℄	
P.C.C.	STA. 914+20.93
	N 837565.78
	E 1013255.32
P.T.	STA. 918+00.00
	N 837864.73
	E 1013487.59
Δ	10°-06'-06.54"
T	190.03'
L	379.07'
R	2150.00'

CURVE NO. 3	
ACCESS ROAD ℄	
P.C.	STA. 918+43.83
	N 837879.59
	E 1013528.83
P.T.	STA. 919+14.62
	N 837924.24
	E 1013581.85
Δ	40°-33'-40.34"
T	36.95'
L	70.79'
R	100.00'

CURVE NO. 4	
ACCESS ROAD ℄	
P.C.	STA. 919+31.94
	N 837939.29
	E 1013590.41
P.T.	STA. 919+72.04
	N 837971.11
	E 1013614.63
Δ	15°-19'-11.60"
T	20.17'
L	40.11'
R	150.00'

CURVE NO. 5	
ACCESS ROAD ℄	
P.C.	STA. 920+31.48
	N 838013.18
	E 1013656.61
P.T.	STA. 921+72.24
	N 838125.41
	E 1013740.80
Δ	16-°07'-49.08"
T	70.85'
L	140.76'
R	500.00'

CURVE NO. 8	
ROAD 200 ℄	
P.C.	STA. 203+43.44
	N 837349.38
	E 1013611.14
P.T.	STA. 204+04.06
	N 837396.76
	E 1013583.25
Δ	86°-49'-41.48"
T	37.84'
L	60.62'
R	40.00'

CURVE NO. 9	
ROAD 200 ℄	
P.C.	STA. 205+56.21
	N 837438.95
	E 1013437.05
P.T.	STA. 206+19.39
	N 837488.81
	E 1013409.81
Δ	90°-29'-49.75"
T	40.35'
L	63.18'
R	40.00'

CURVE NO. 10	
ROAD 200 ℄	
P.C.	STA. 207+10.65
	N 837576.26
	E 1013435.88
P.T.	STA. 208+84.40
	N 837746.23
	E 1013470.82
Δ	9°-57'-17.23"
T	87.09'
L	173.74'
R	1000.00'

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

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Plotted: $DATE$

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

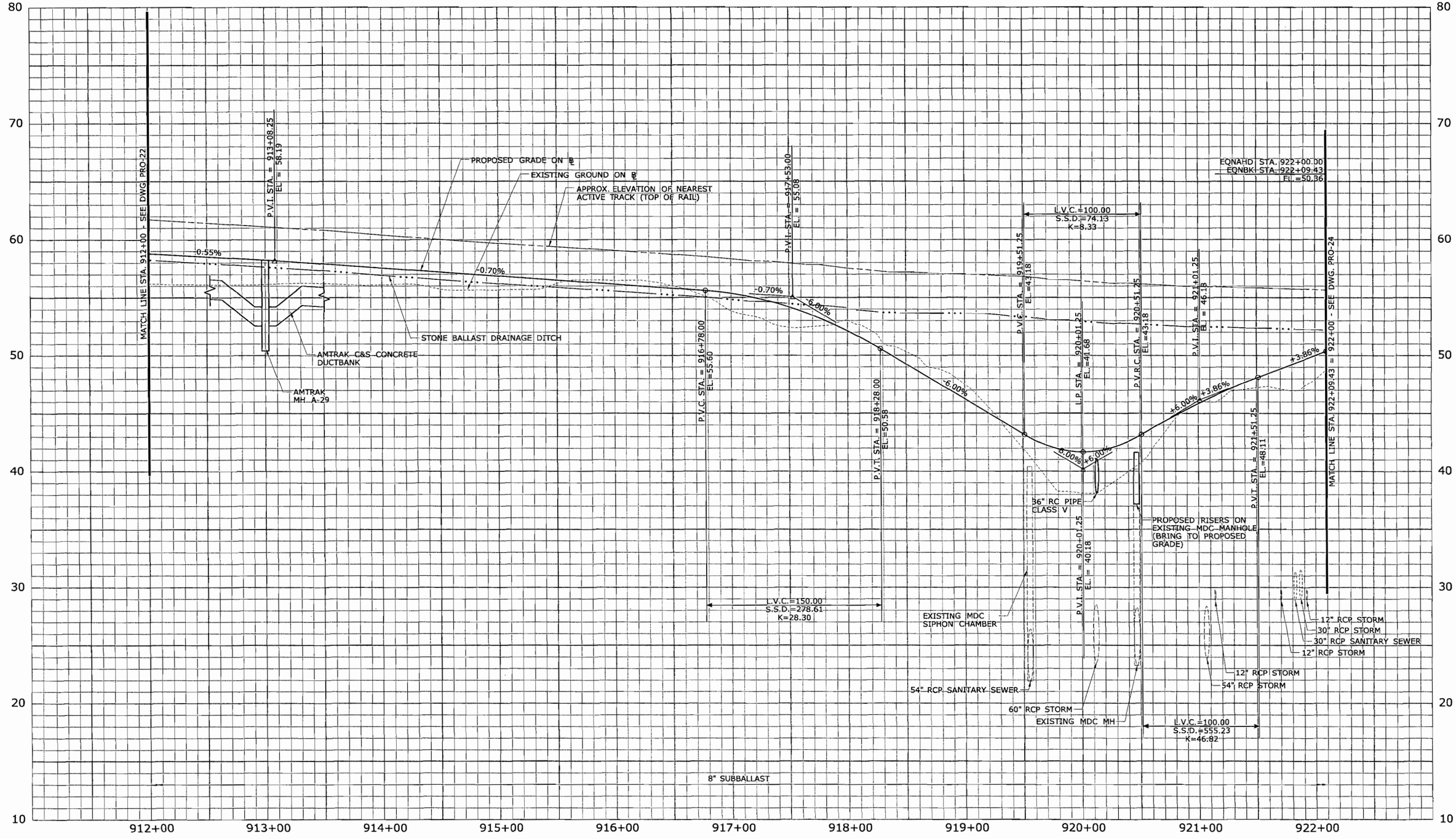
Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-23
SHEET NO. 108



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-23.dgn

MICHAEL BAKER ENGINEERING, INC.

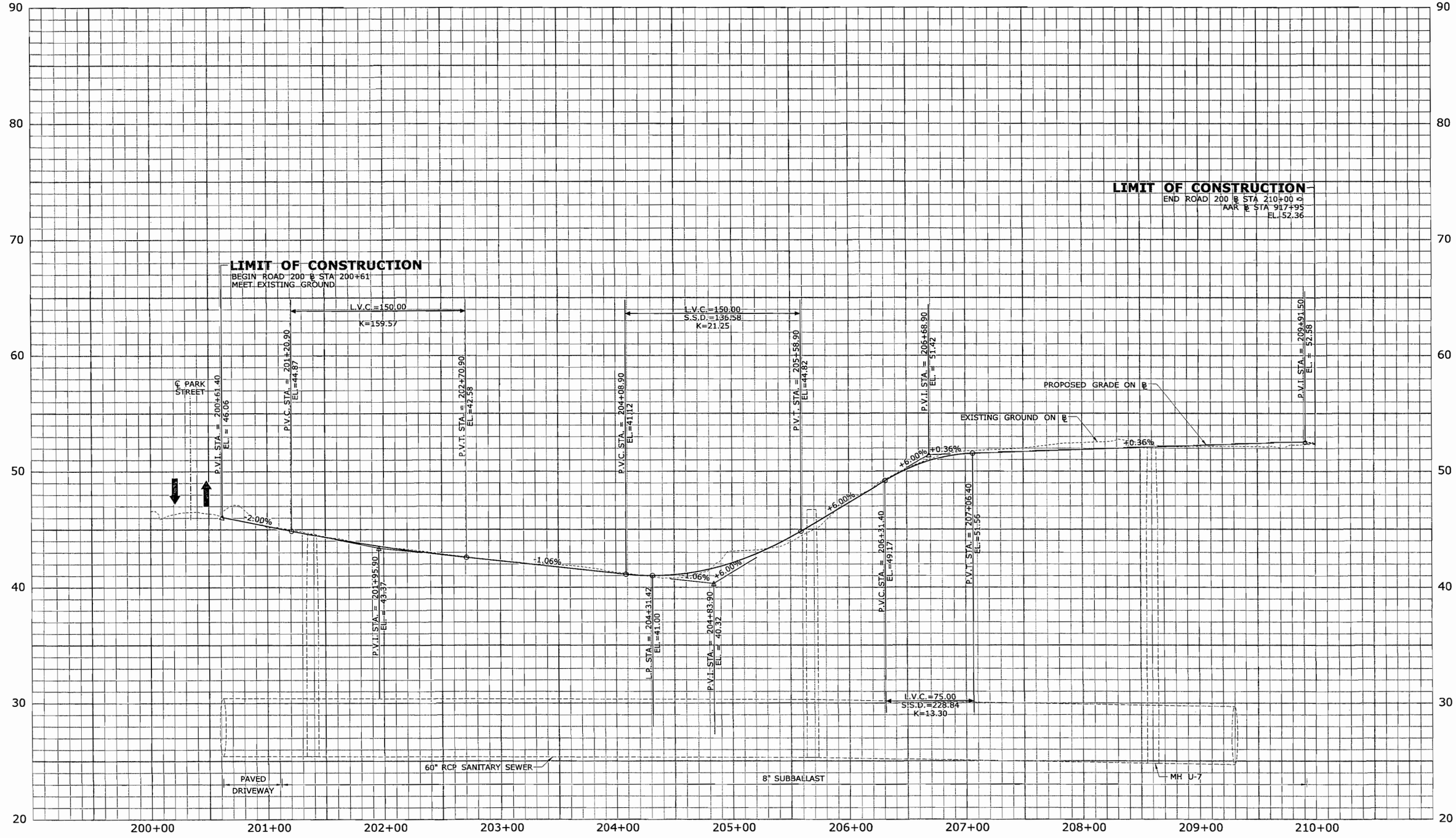
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-23
SHEET NO. 109



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-27.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PROFILE ROAD 200 ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-27
SHEET NO. 115

LEGEND

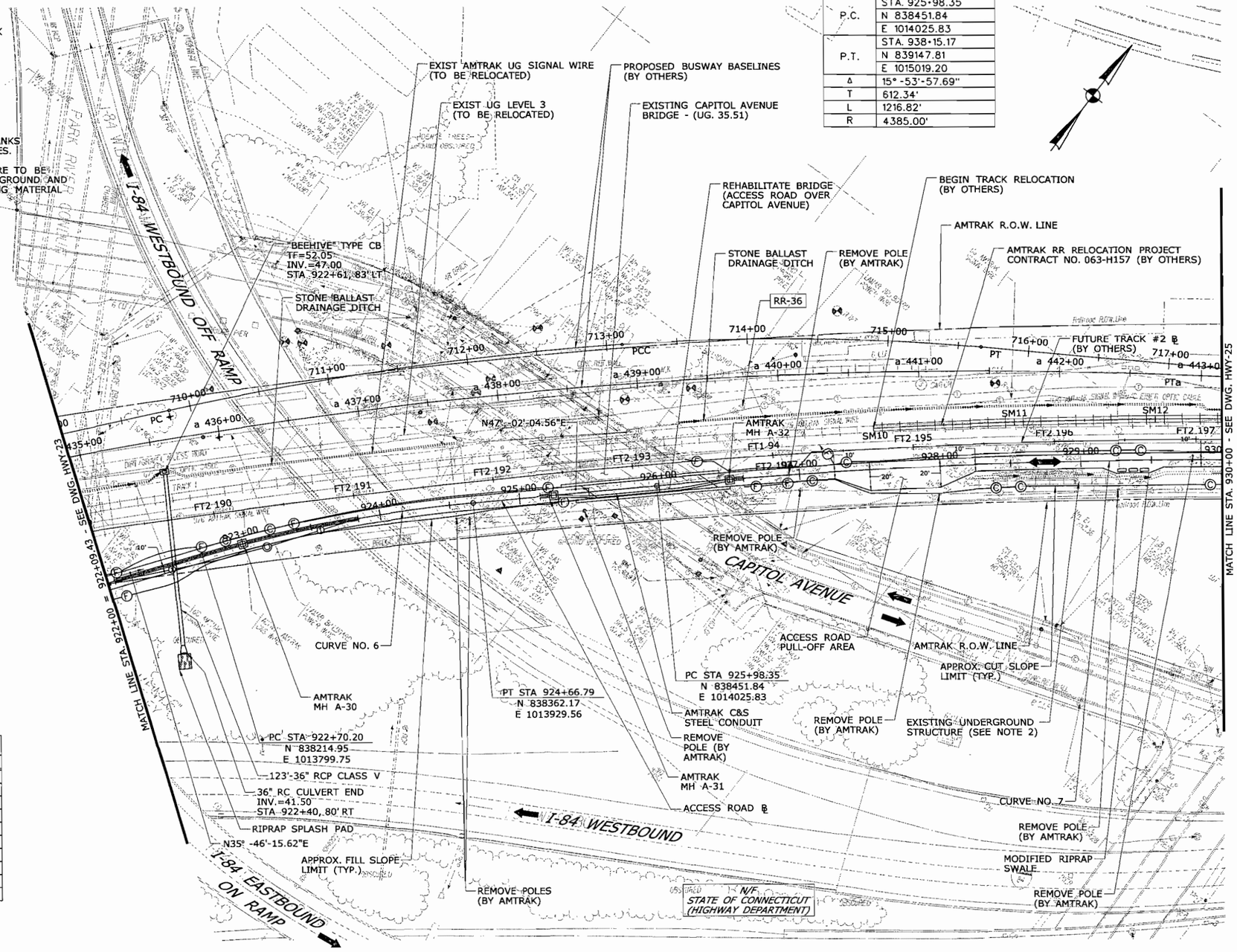
- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

NOTES:

1. FOR LOCATION OF AMTRAK DUCTBANKS SEE CROSS SECTIONS AND PROFILES.
2. EXISTING UNDERGROUND STRUCTURE TO BE REMOVED TO 6' BELOW FINISHED GROUND AND FILLED WITH FLOWABLE FILL. SIDING MATERIAL TO BE REMOVED BY AMTRAK

CURVE NO. 7	
ACCESS ROAD ℄	
P.C.	STA. 925+98.35
	N 838451.84
	E 1014025.83
P.T.	STA. 938+15.17
	N 839147.81
	E 1015019.20
Δ	15° -53'-57.69"
T	612.34'
L	1216.82'
R	4385.00'

CURVE NO. 6	
ACCESS ROAD ℄	
P.C.	STA. 922+70.20
	N 838214.95
	E 1013799.75
P.T.	STA. 924+66.79
	N 838362.17
	E 1013929.56
Δ	11° -15'-48.94"
T	98.61'
L	196.59'
R	1000.00'



FINAL PLANS FOR REVIEW

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Plotted: 7/17/2010

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CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-24.dgn

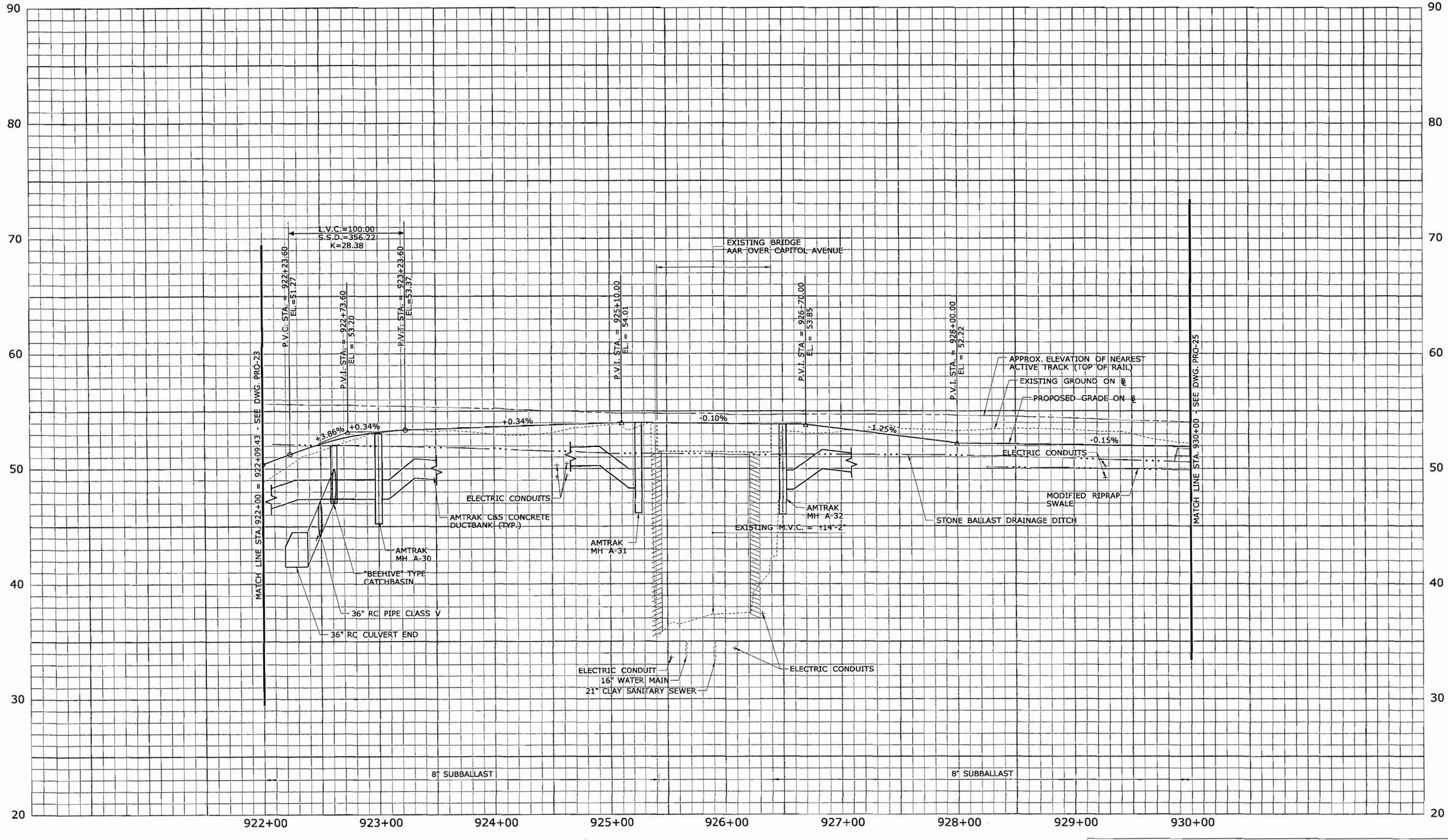
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-24
SHEET NO. 110



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-24.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

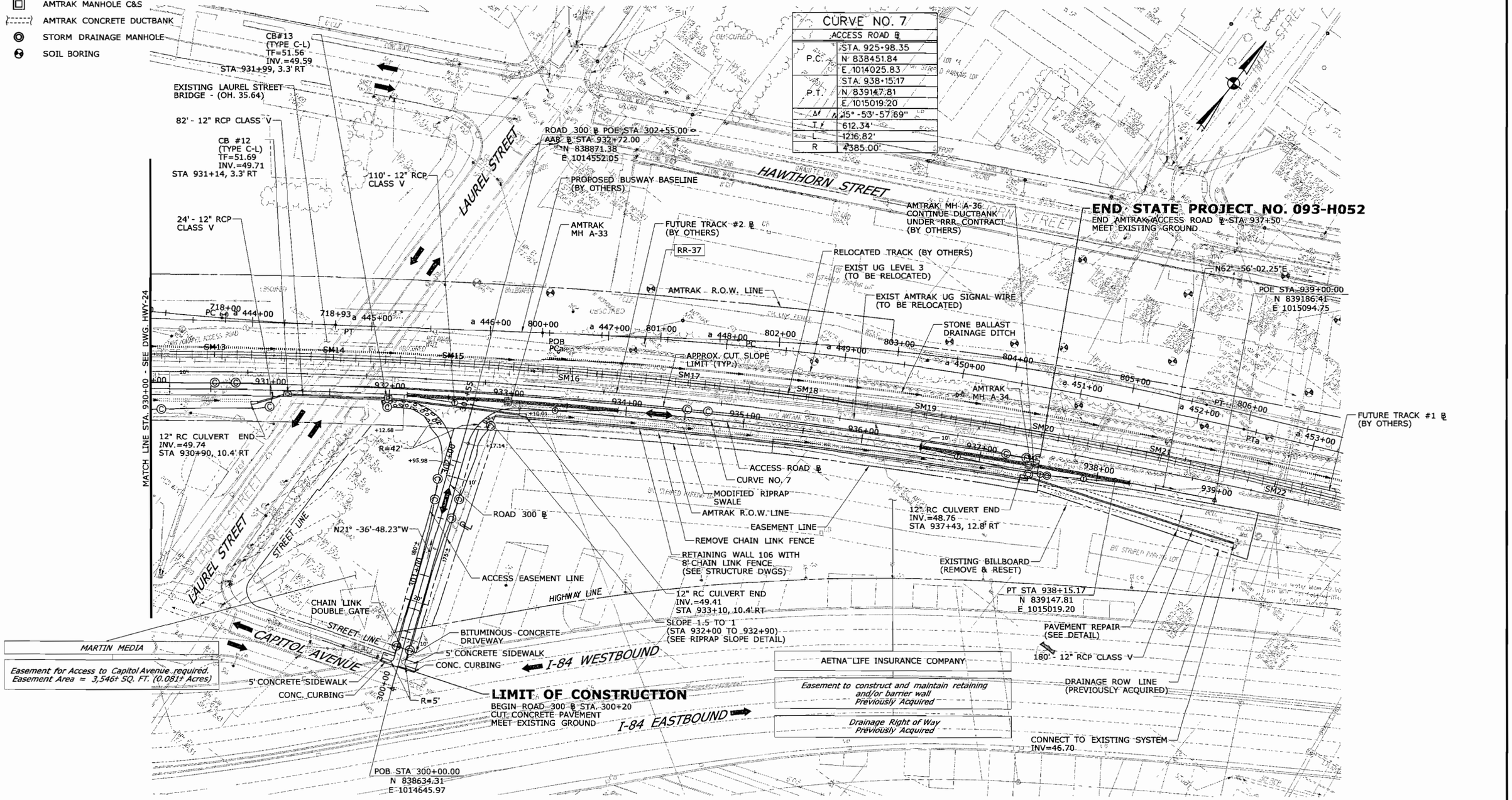
DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD B

PROJECT NO. 093-H052
DRAWING NO. PRO-24
SHEET NO. 111

LEGEND

- AMTRAK MANHOLE C&S
- AMTRAK CONCRETE DUCTBANK
- STORM DRAINAGE MANHOLE
- SOIL BORING

CURVE NO. 7 ACCESS ROAD ℄	
P.C.	STA. 925+98.35
	N 838451.84
	E 1014025.83
P.T.	STA. 938+15.17
	N 839147.81
	E 1015019.20
Δ	15° -53'-57.69"
T	612.34'
L	1216.82'
R	4385.00'



NOTES:

1. FOR LOCATION OF AMTRAK AND LEVEL 3 DUCTBANKS SEE UTILITY DRAWINGS AND CROSS SECTIONS.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PLN-25.dgn

MICHAEL BAKER ENGINEERING, INC.

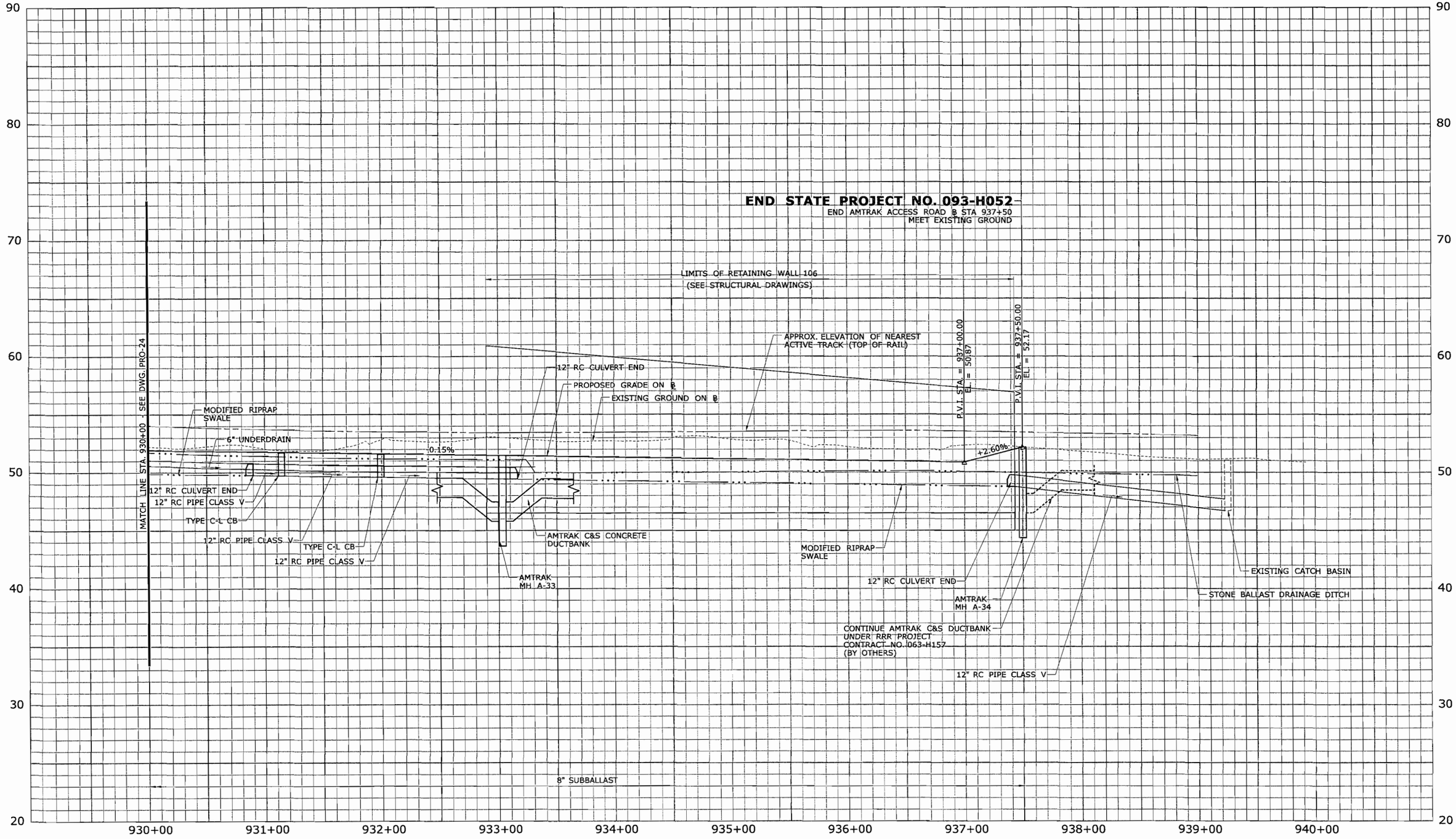
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: ROADWAY PLAN

PROJECT NO. 093-H052
DRAWING NO. HWY-25
SHEET NO. 112



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-25.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

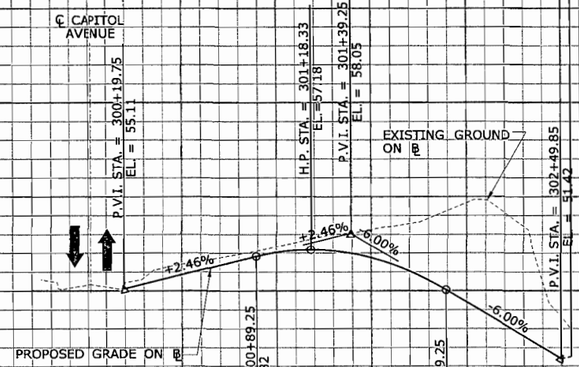
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
ROADWAY PROFILE
ACCESS ROAD ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-25
SHEET NO. 113

LIMIT OF CONSTRUCTION
BEGIN ROAD 300 STA ℄ 300+20
MEET EXISTING GROUND

LIMIT OF CONSTRUCTION
END ROAD 300 ℄ STA 302+55 ±
AAR ℄ STA 932+72
EL. 51.52



90 80 70 60 50 40 30 20

300+00 301+00 302+00 303+00

56.8
53.45
53

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
HORIZ. SCALE IN FEET 0 40 80
VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_PRO-28.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

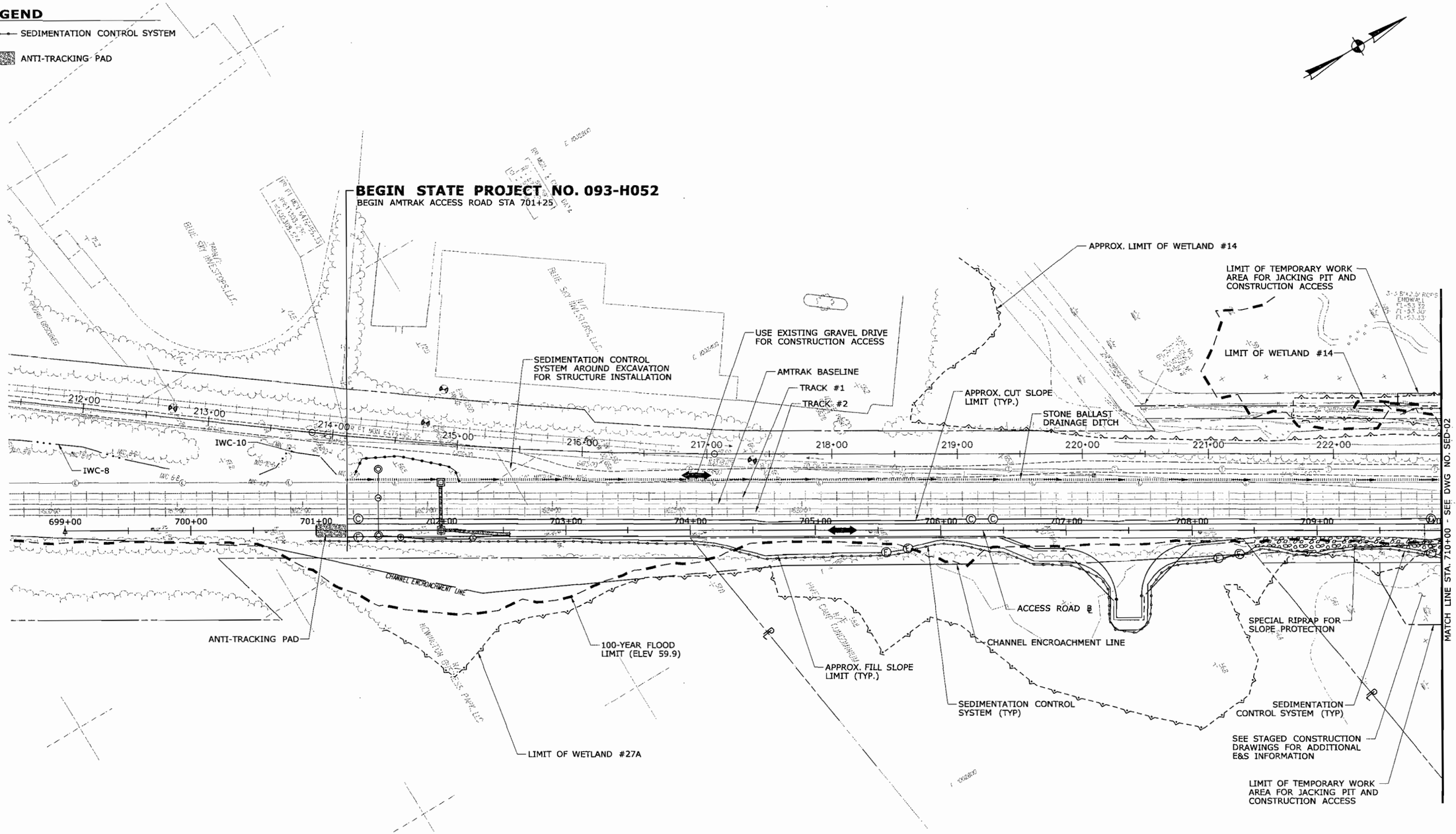
DRAWING TITLE: ROADWAY PROFILE ROAD 300 ℄

PROJECT NO. 093-H052
DRAWING NO. PRO-28
SHEET NO. 116

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: $DATE$

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

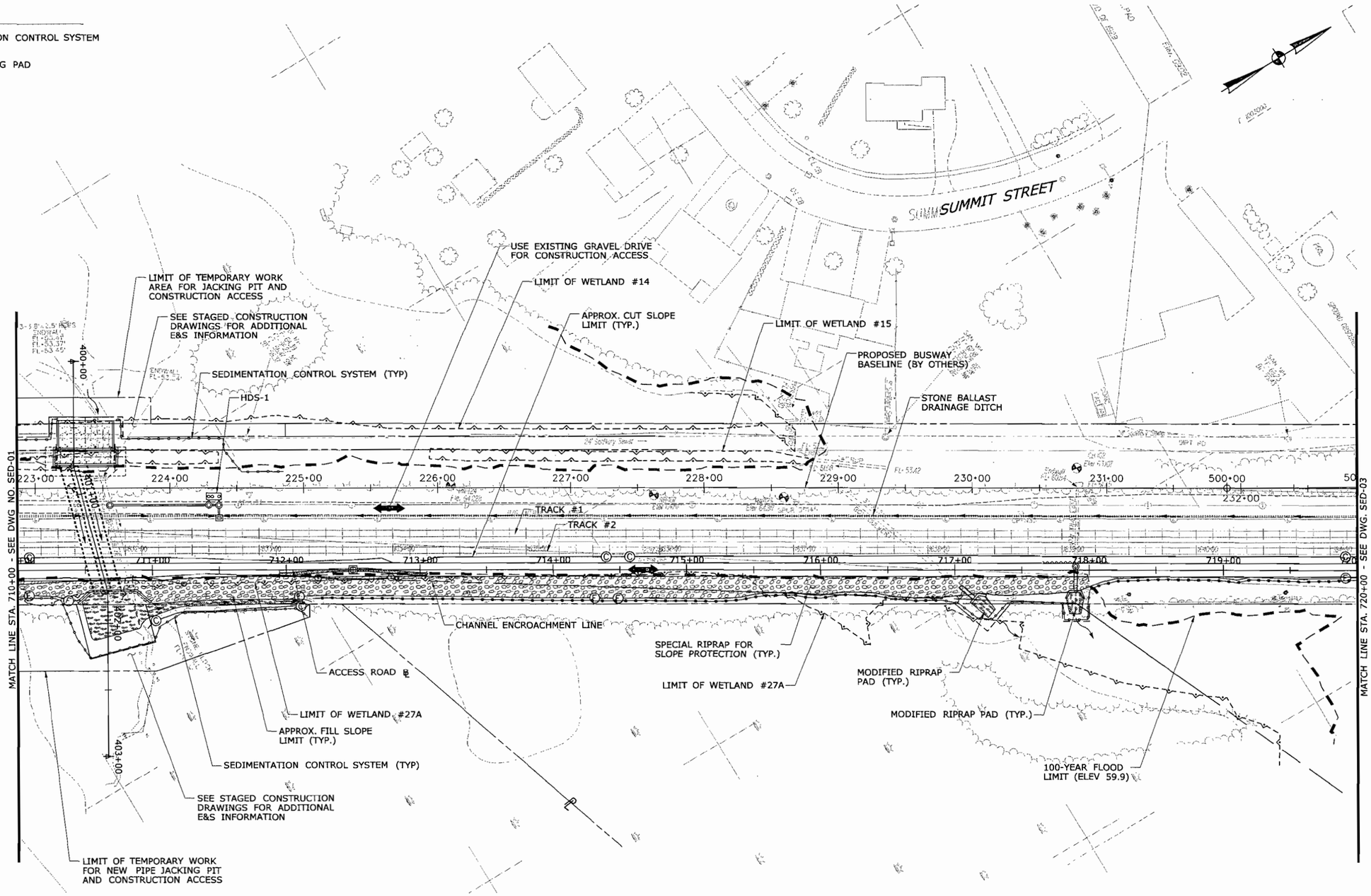
DRAWING NO. SED-01

SHEET NO. 117

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: $DATE$

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052
DRAWING NO. SED-02
SHEET NO. 118

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD

LIMIT OF CONSTRUCTION
END AMTRAK ACCESS ROAD ℄ STA. 722+00
MEET EXISTING GROUND

CHAPMAN STREET

WILLARD AVENUE (RTE. 173)

PROPOSED BUSWAY BASELINES (BY OTHERS)

ANTI-TRACKING PAD

USE EXISTING GRAVEL DRIVE FOR CONSTRUCTION ACCESS

LIMIT OF CONSTRUCTION
BEGIN AMTRAK ACCESS ROAD ℄ STA 728+00
MEET EXISTING GROUND

STONE BALLAST DRAINAGE DITCH

AMTRAK R.O.W. LINE

TRACK #1

TRACK #2

LIMIT OF WETLAND #16A

MATCH LINE STA. 720+00 - SEE DWG. SED-02

MATCH LINE STA. 730+00 - SEE DWG. SED-04

APPROX. CUT SLOPE LIMIT (TYP.)

ACCESS ROAD ℄

N/F ANTHONY F. COLAGIOVIANNI

15' DRIVEWAY

AMTRAK R.O.W. LINE

STREET LINE

FRANCIS AVENUE

ANTI-TRACKING PAD

SEDIMENTATION CONTROL SYSTEM (TYP.)

APPROX. FILL SLOPE LIMIT (TYP.)

ROAD 100 ℄

100-YEAR FLOOD LIMIT (ELEV 59.9)

ANTI-TRACKING PAD

PAVED DRIVEWAY ENTRANCE

HIGHWAY LINE

WILLARD AVENUE (RTE. 173)

LIMIT OF WETLAND #27B

LIMIT OF CONSTRUCTION
END ROAD 100 ℄ STA. 104+04
CUT CONCRETE PAVEMENT
MEET EXISTING GROUND

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

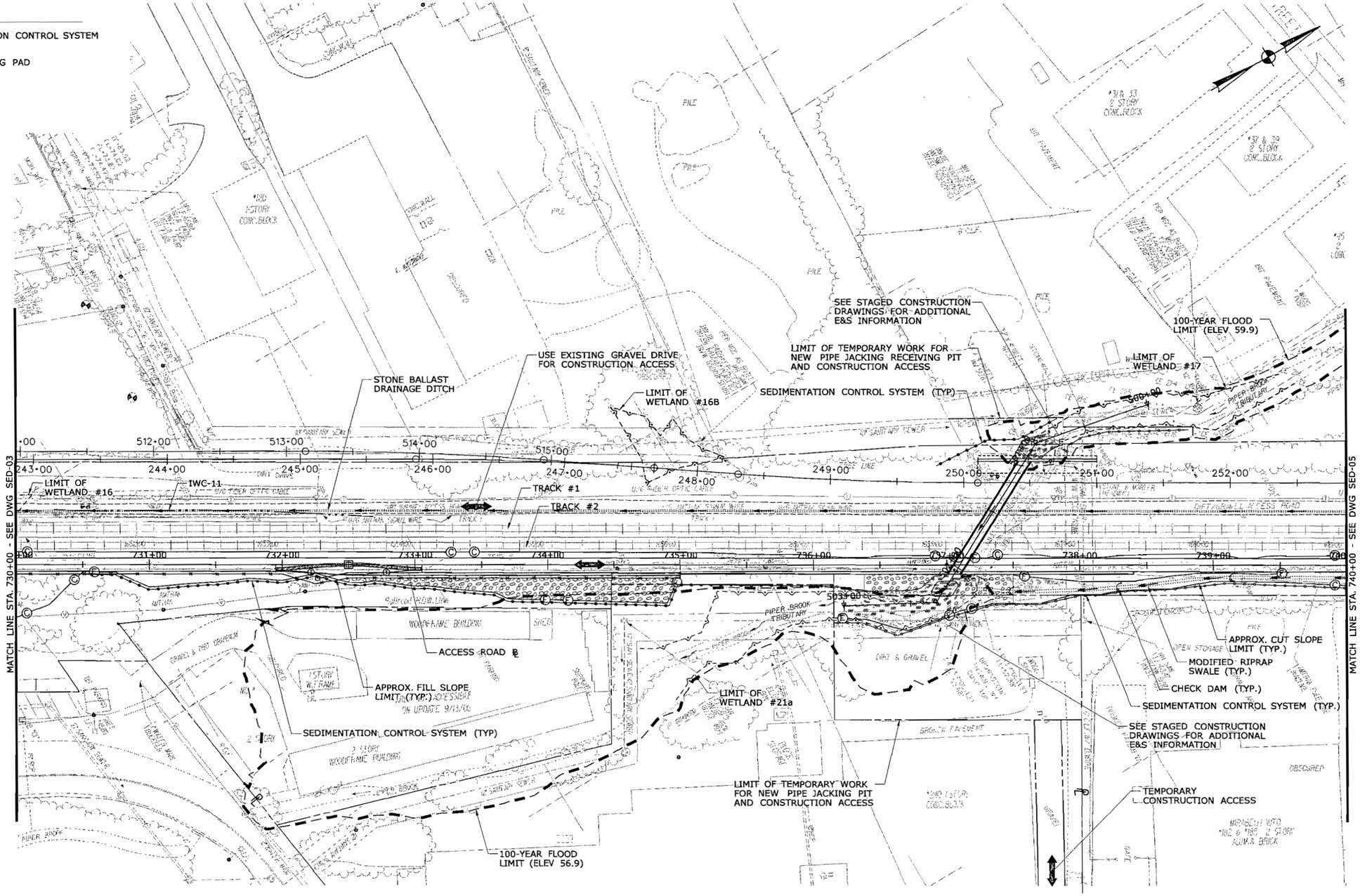
DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052
DRAWING NO. SED-03
SHEET NO. 119

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

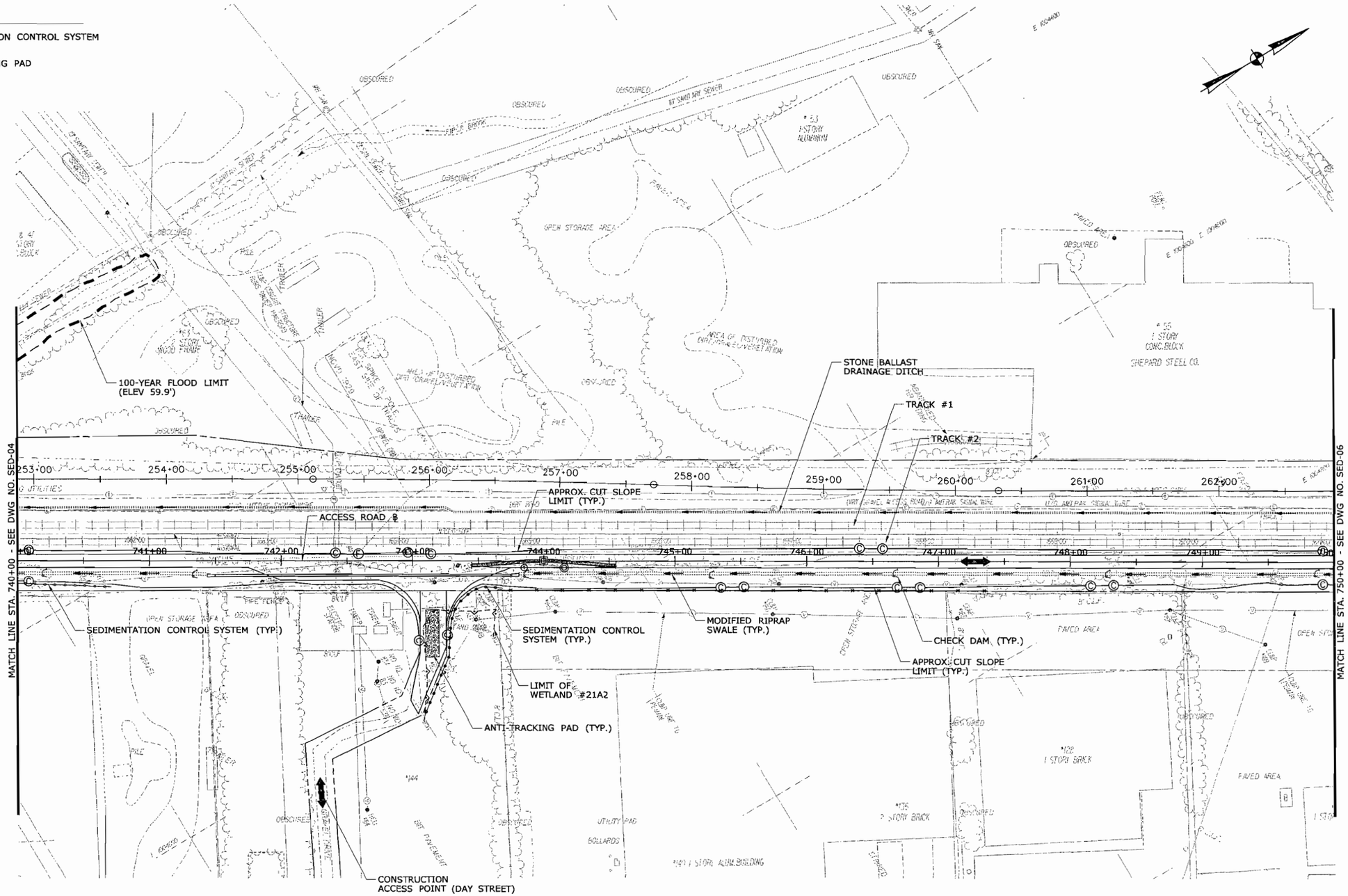
DRAWING NO. SED-04

SHEET NO. 120

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

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SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO.
093-H052

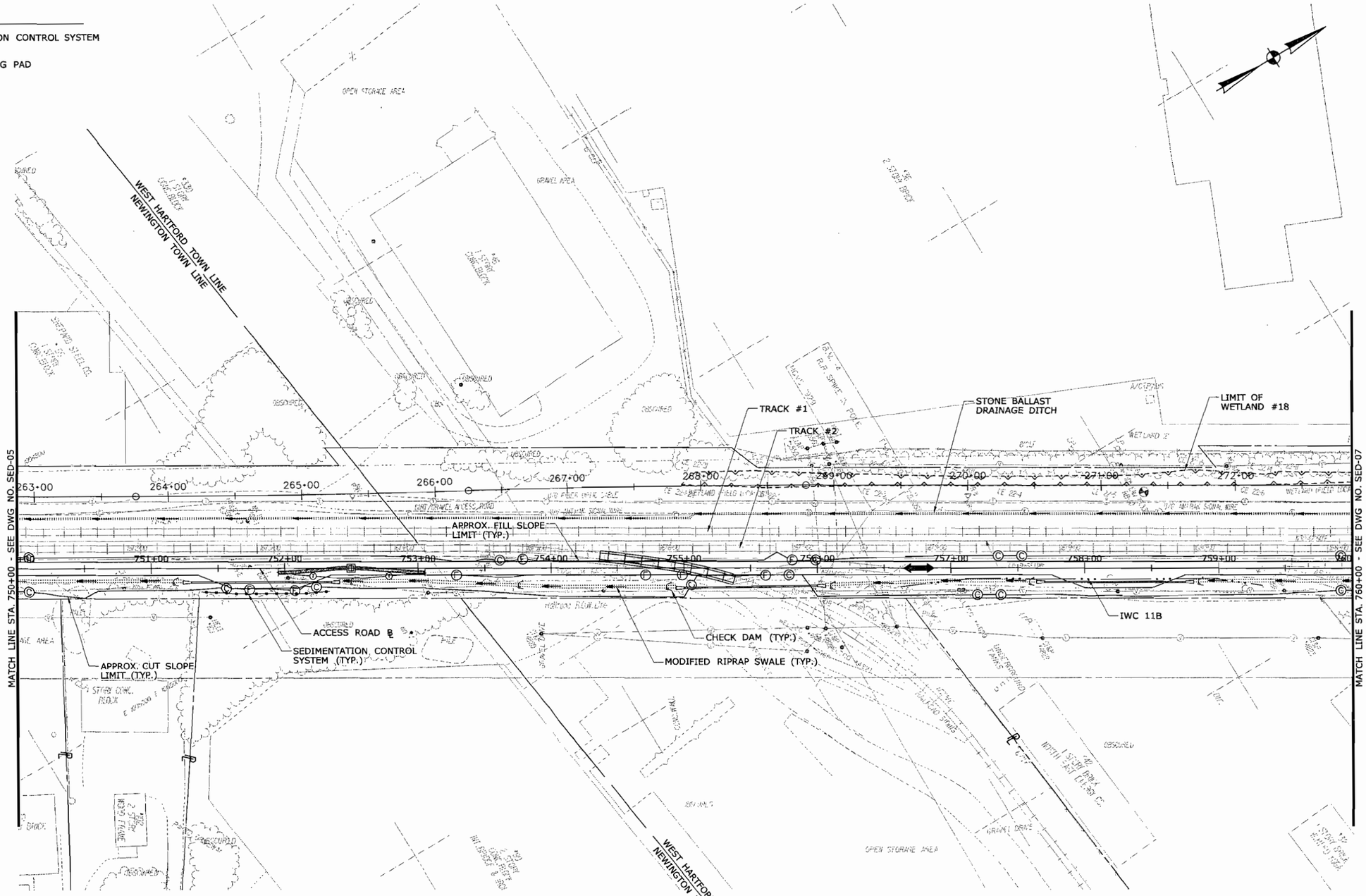
DRAWING NO.
SED-05

SHEET NO.
121

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



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SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

MICHAEL BAKER ENGINEERING, INC.

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DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

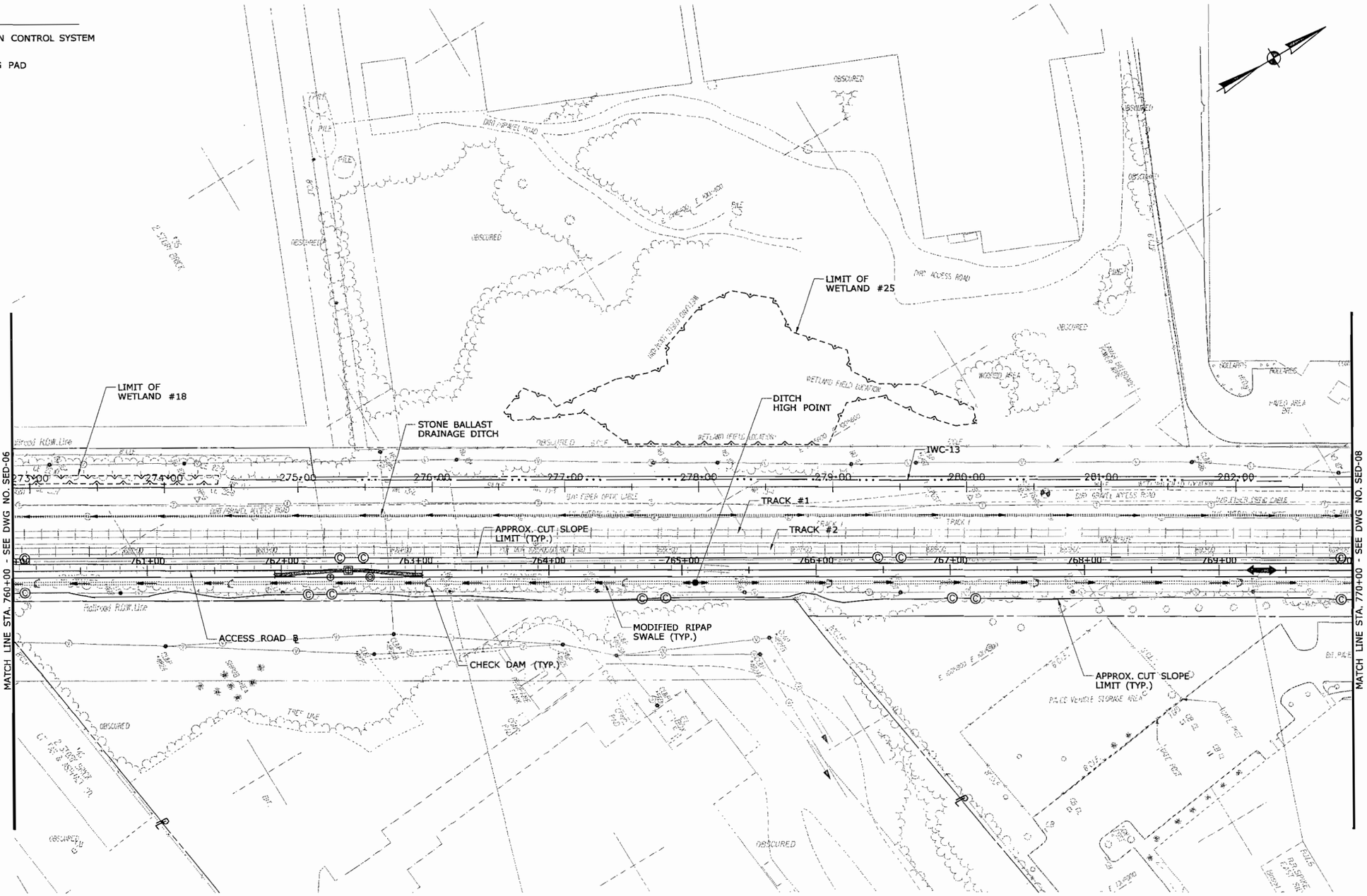
DRAWING NO. SED-06

SHEET NO. 122

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

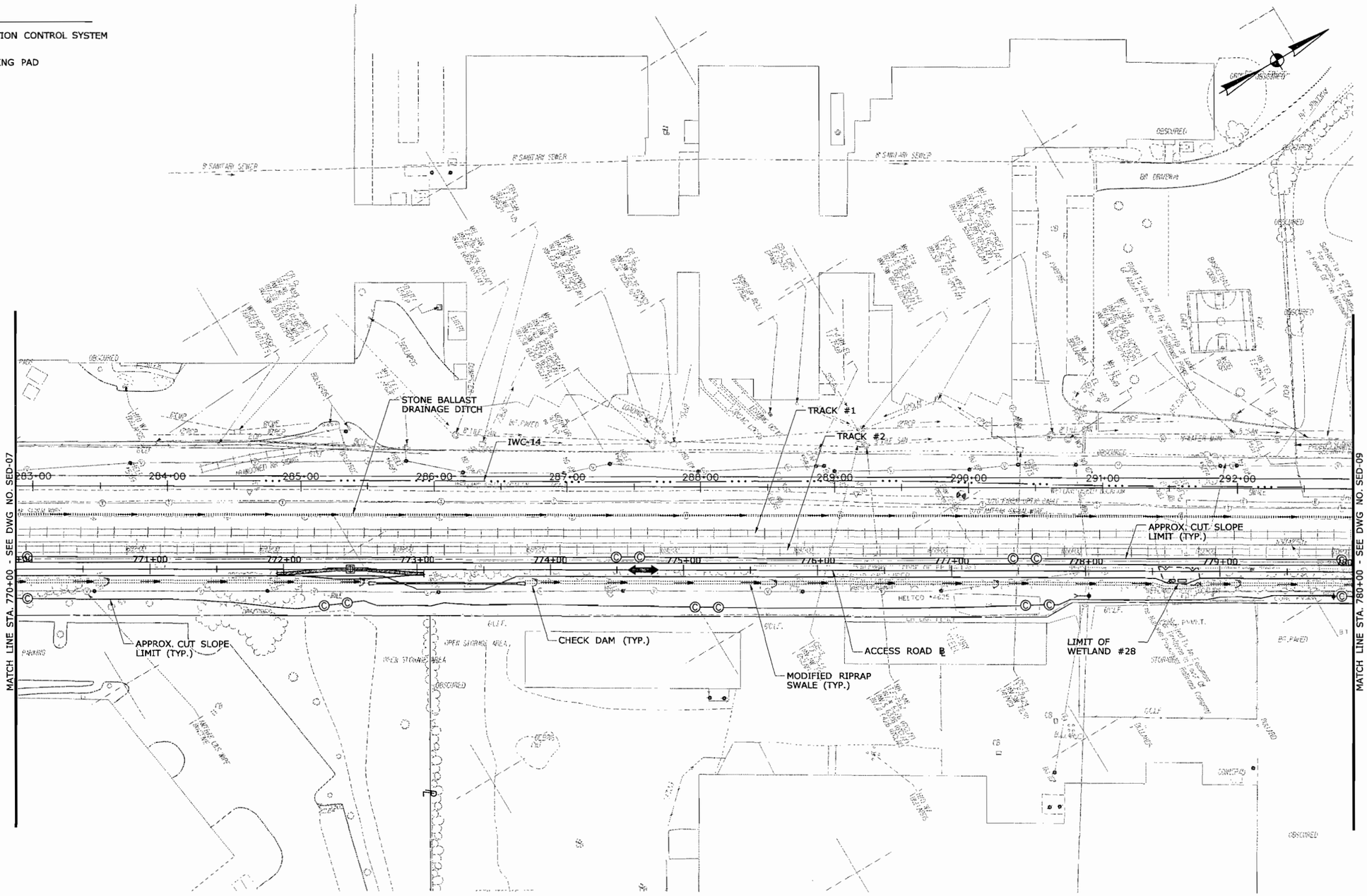
DRAWING NO. SED-07

SHEET NO. 123

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

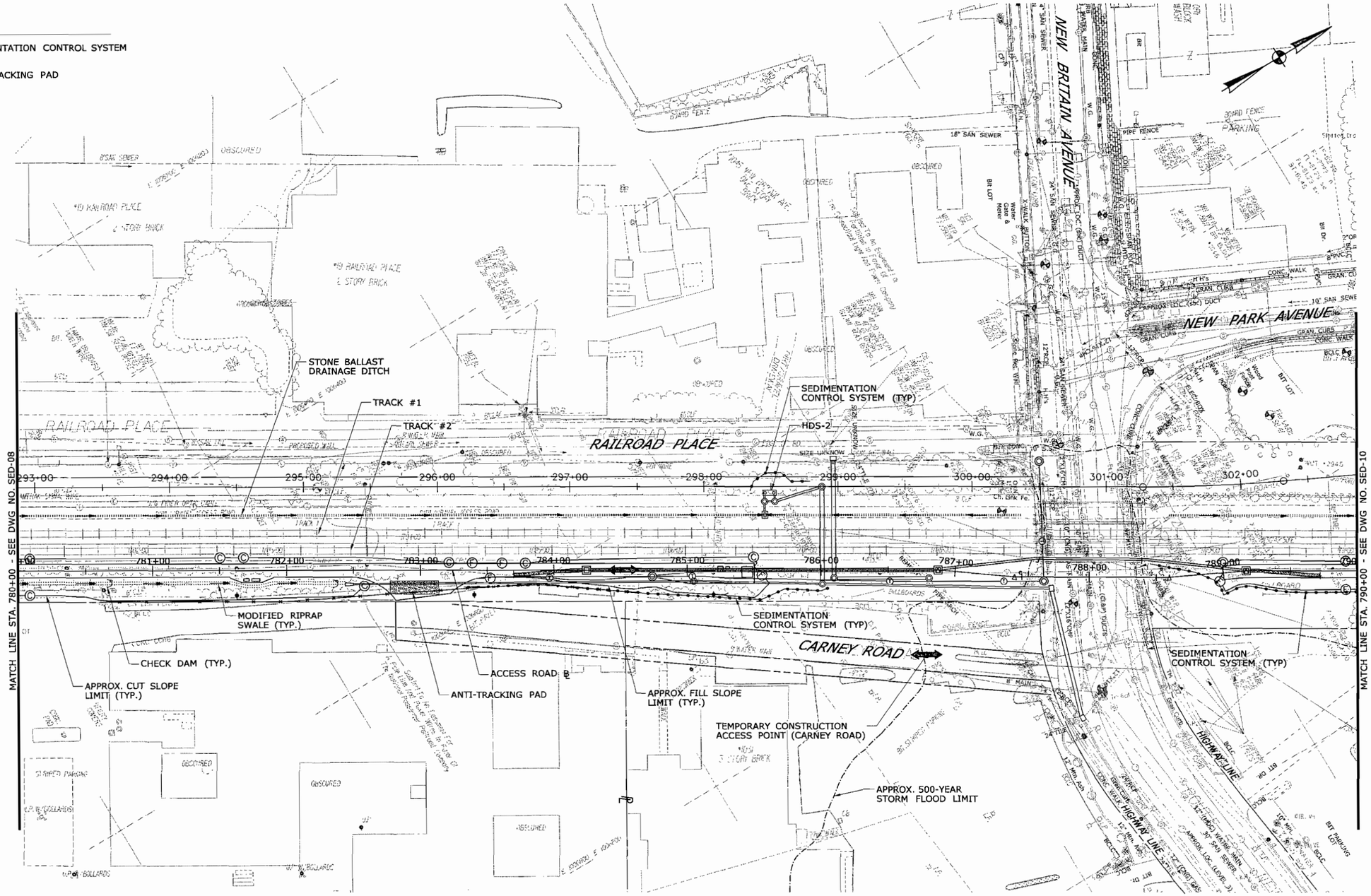
DRAWING NO. SED-08

SHEET NO. 124

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: $DATE$

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

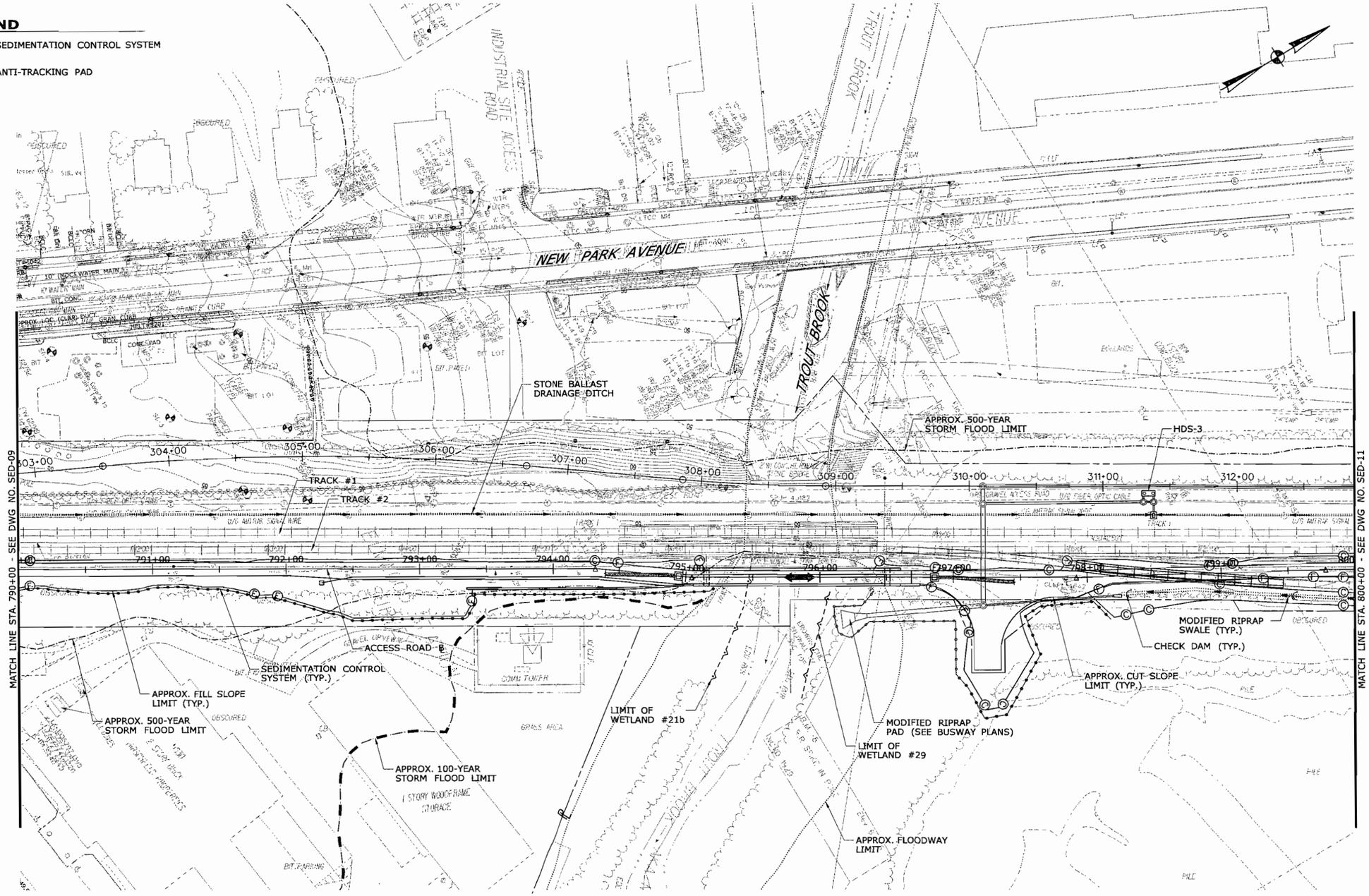
DRAWING NO. SED-09

SHEET NO. 125

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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Plotted: $DATE$

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DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

Filename: $FILE$

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

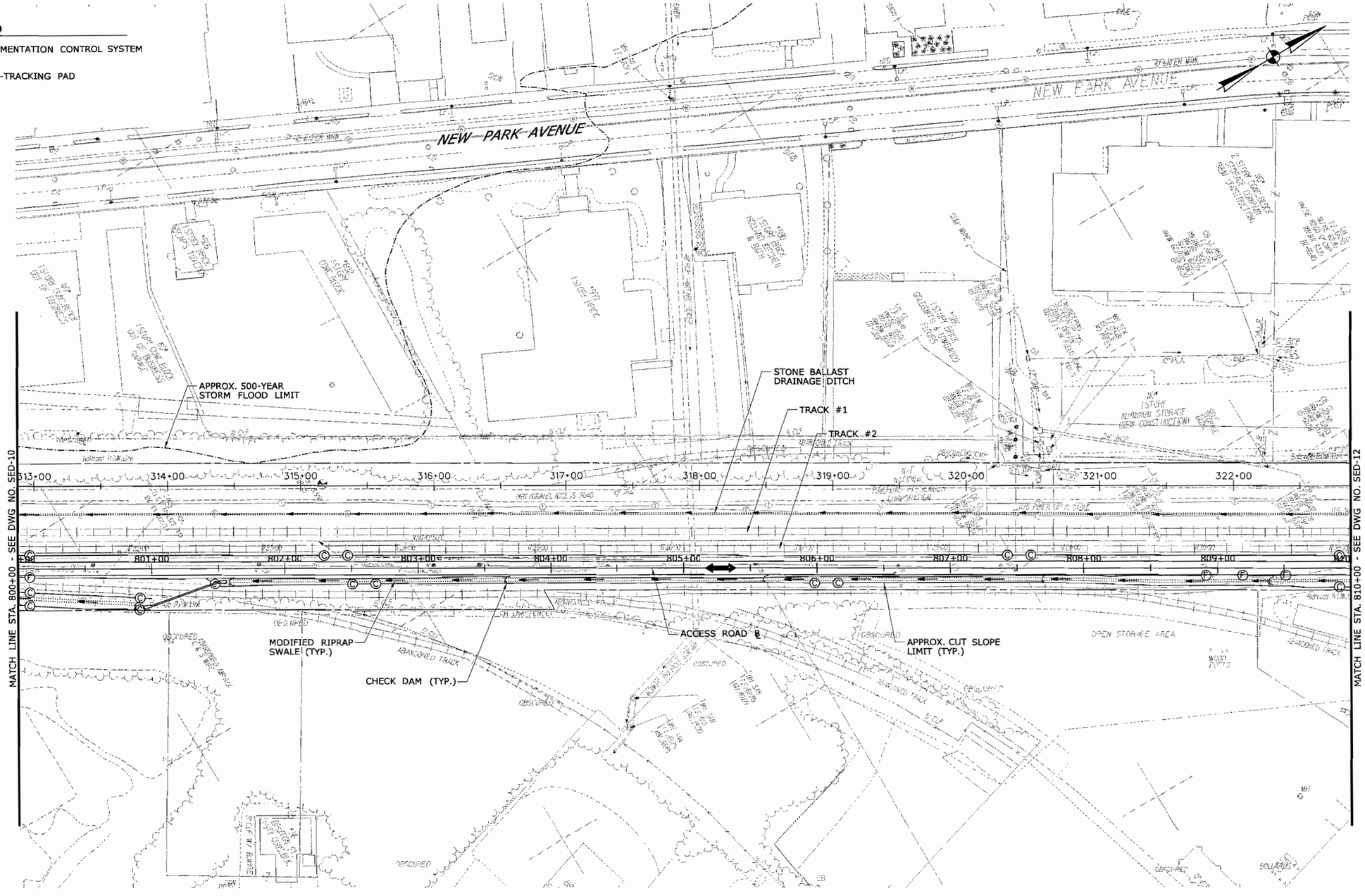
DRAWING NO. SED-10

SHEET NO. 126

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

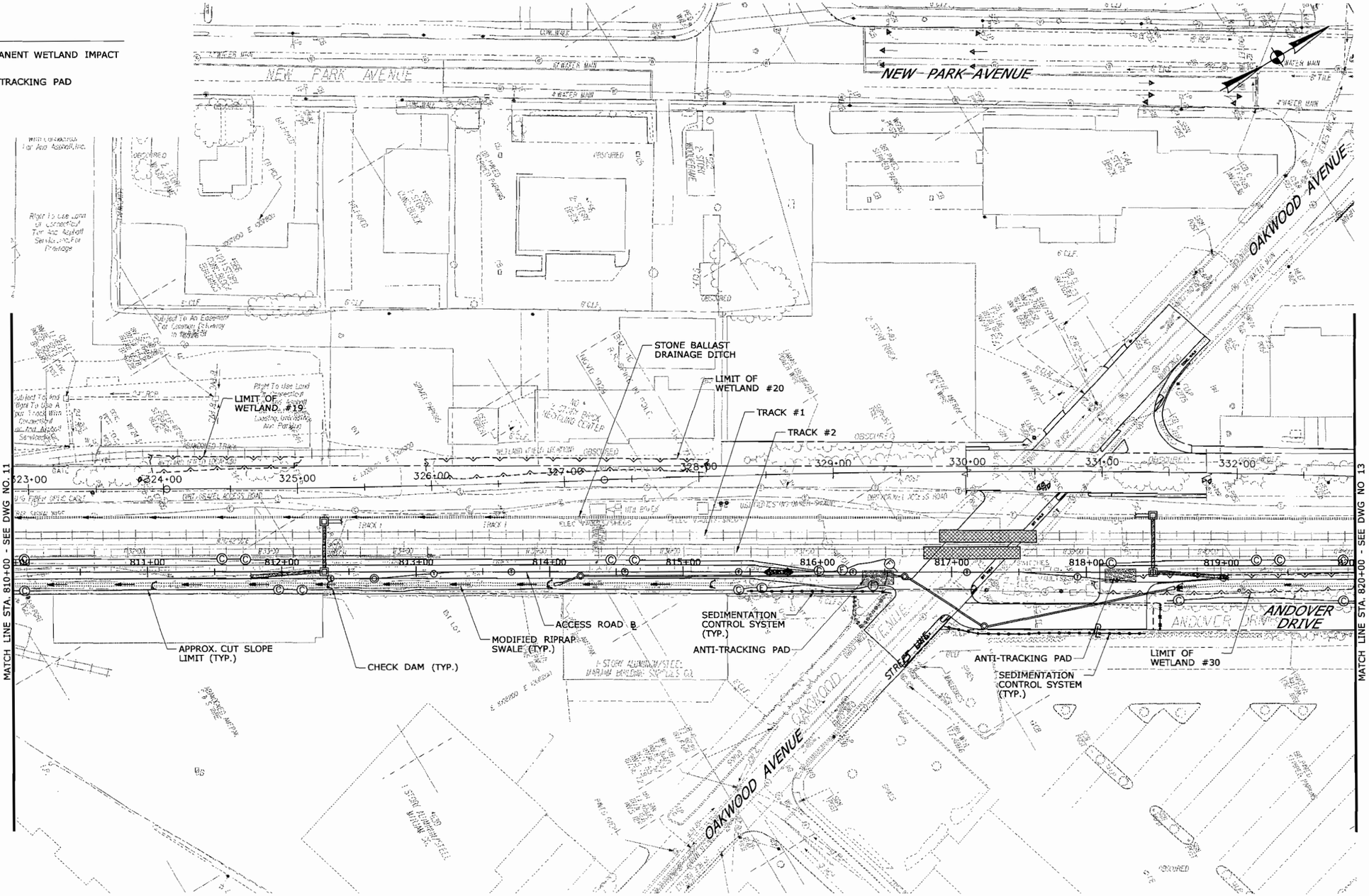
DRAWING NO. SED-11

SHEET NO. 127

LEGEND

PERMANENT WETLAND IMPACT

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: $DATE$

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

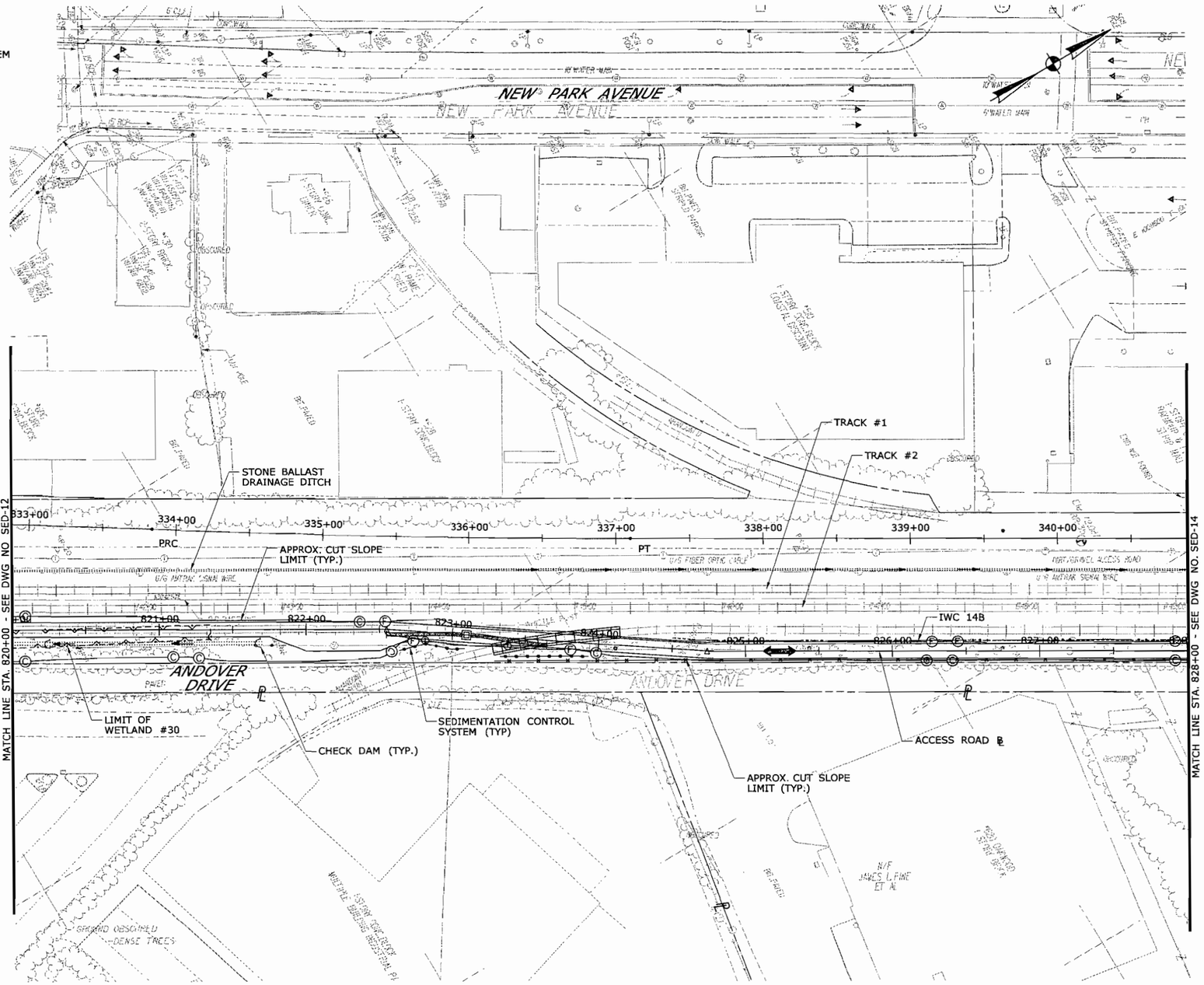
DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052
DRAWING NO. SED-12
SHEET NO. 128

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: $DATE$

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

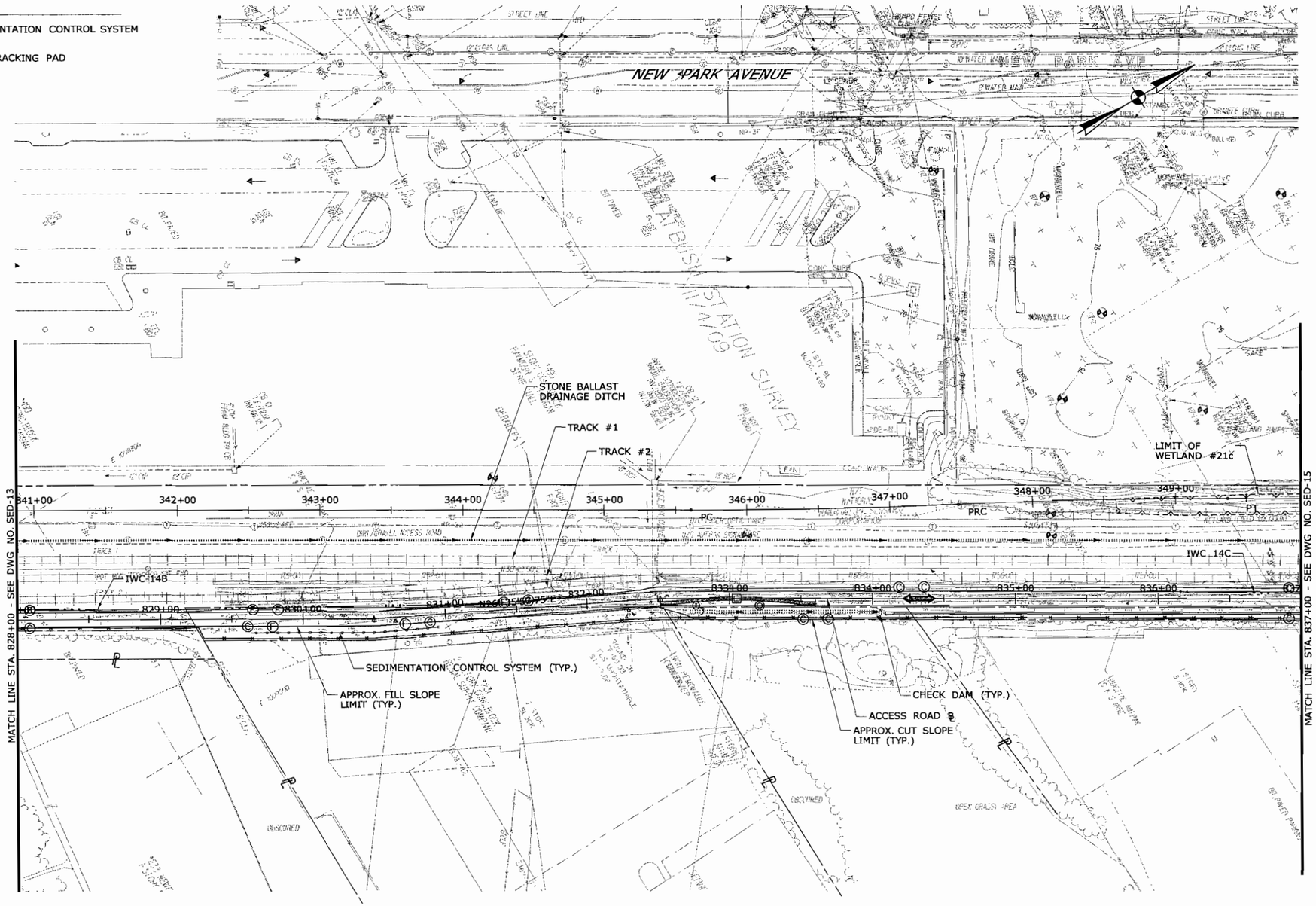
DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052
DRAWING NO. SED-13
SHEET NO. 129

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-14.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

DRAWING NO. SED-14

SHEET NO. 130

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD

NEW PARK AVENUE

RECONSTRUCTION OF FLATBUSH AND NEW PARK (FOR INFORMATION ONLY)

FLATBUSH AVENUE

WEST HARTFORD TOWN LINE
HARTFORD TOWN LINE

LIMIT OF WETLAND #21c

TRACK #1

TRACK #2

STONE BALLAST DRAINAGE DITCH

LIMIT OF WETLAND #21D

APPROX. CUT SLOPE LIMIT (TYP.)

350+00 351+00 352+00 353+00 354+00 355+00 356+00 357+00 358+00 359+00 360+00

PC PRC PT

IWC 14C

IWC 14D

838+00 839+00 840+00 841+00 842+00 843+00 844+00 845+00 846+00 847+00 848+00

MATCH LINE STA. 837+00 - SEE DWG NO. SED-14

MATCH LINE STA. 848+00 - SEE DWG NO. SED-16

ACCESS ROAD B

ANTI-TRACKING PAD

SEDIMENTATION CONTROL SYSTEM(TYP)

APPROX. CUT SLOPE LIMIT (TYP.)

MODIFIED RIPRAP SWALE (TYP.)

CHECK DAM (TYP.)

FUTURE FLATBUSH AVENUE

STREET LINE

NEWFIELD AVENUE

RECONSTRUCTION OF FLATBUSH AND NEWFIELD (FOR INFORMATION ONLY)

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-15.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

DRAWING NO. SED-15

SHEET NO. 131

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD

NEW PARK AVENUE

STONE BALLAST DRAINAGE DITCH

LIMIT OF WETLAND #22

TRACK #1

TRACK #2

CHECK DAM (TYP.)

ACCESS ROAD

SEDIMENTATION CONTROL SYSTEM (TYP.)

APPROX. FILL SLOPE LIMIT (TYP.)

MODIFIED RIPRAP SWALE (TYP.)

MATCH LINE STA. 848+00 - SEE DWG NO. SED-15

MATCH LINE STA. 858+00 - SEE DWG NO. SED-17

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

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DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-16.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

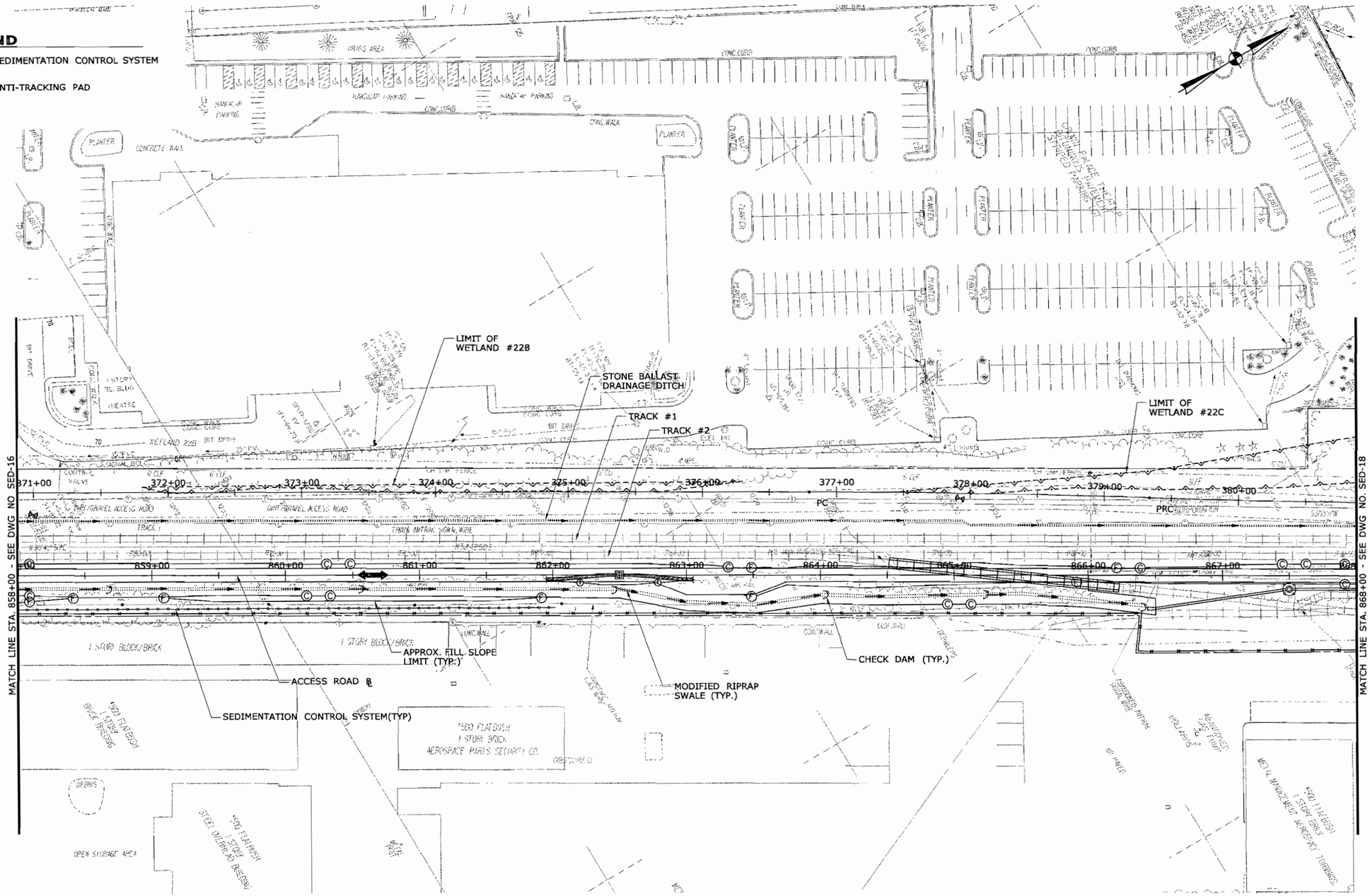
DRAWING NO. SED-16

SHEET NO. 132

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: -

CHECKED BY: -

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-17.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

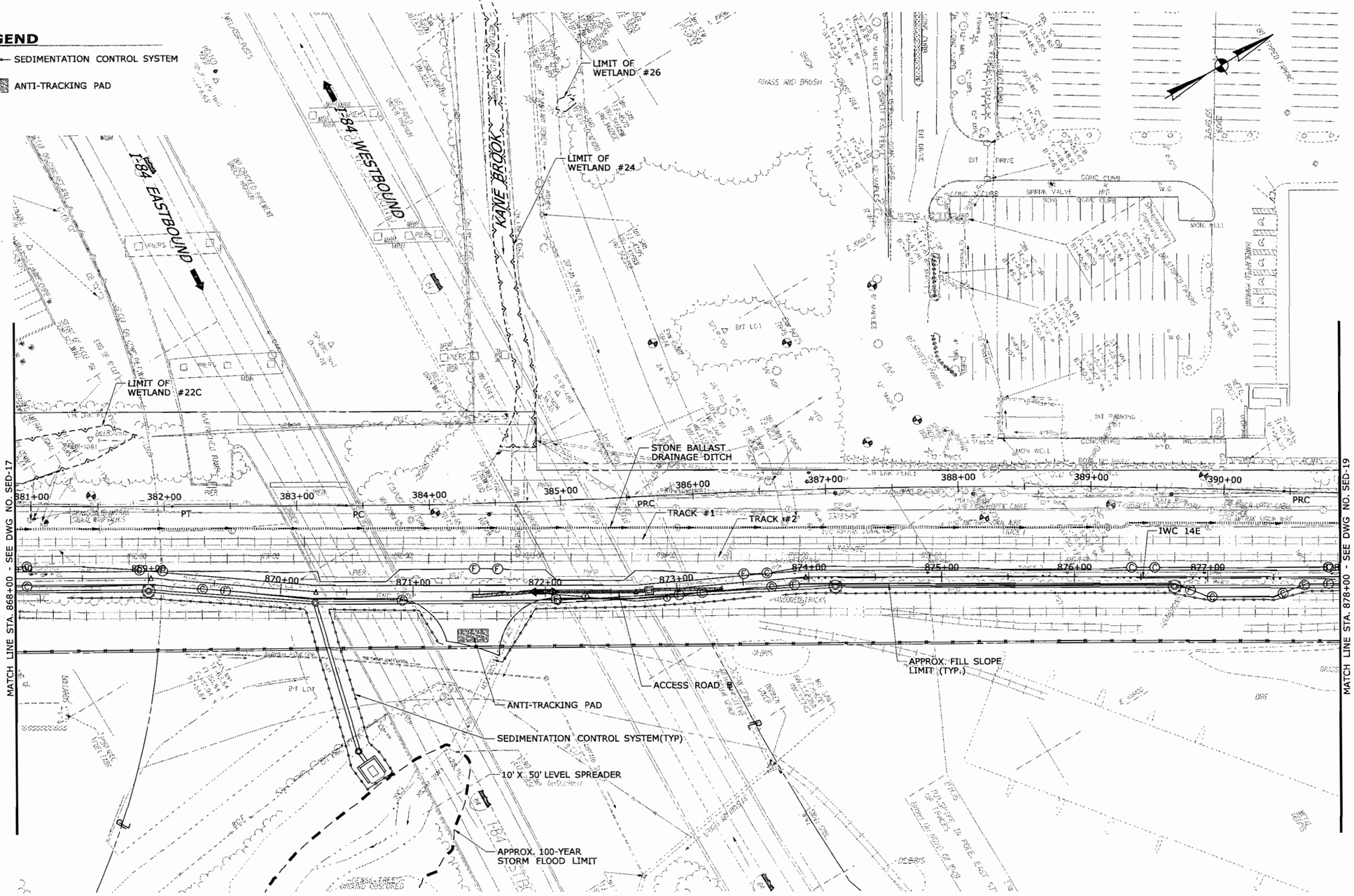
DRAWING NO. SED-17

SHEET NO. 133

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: $DATE$

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -

DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

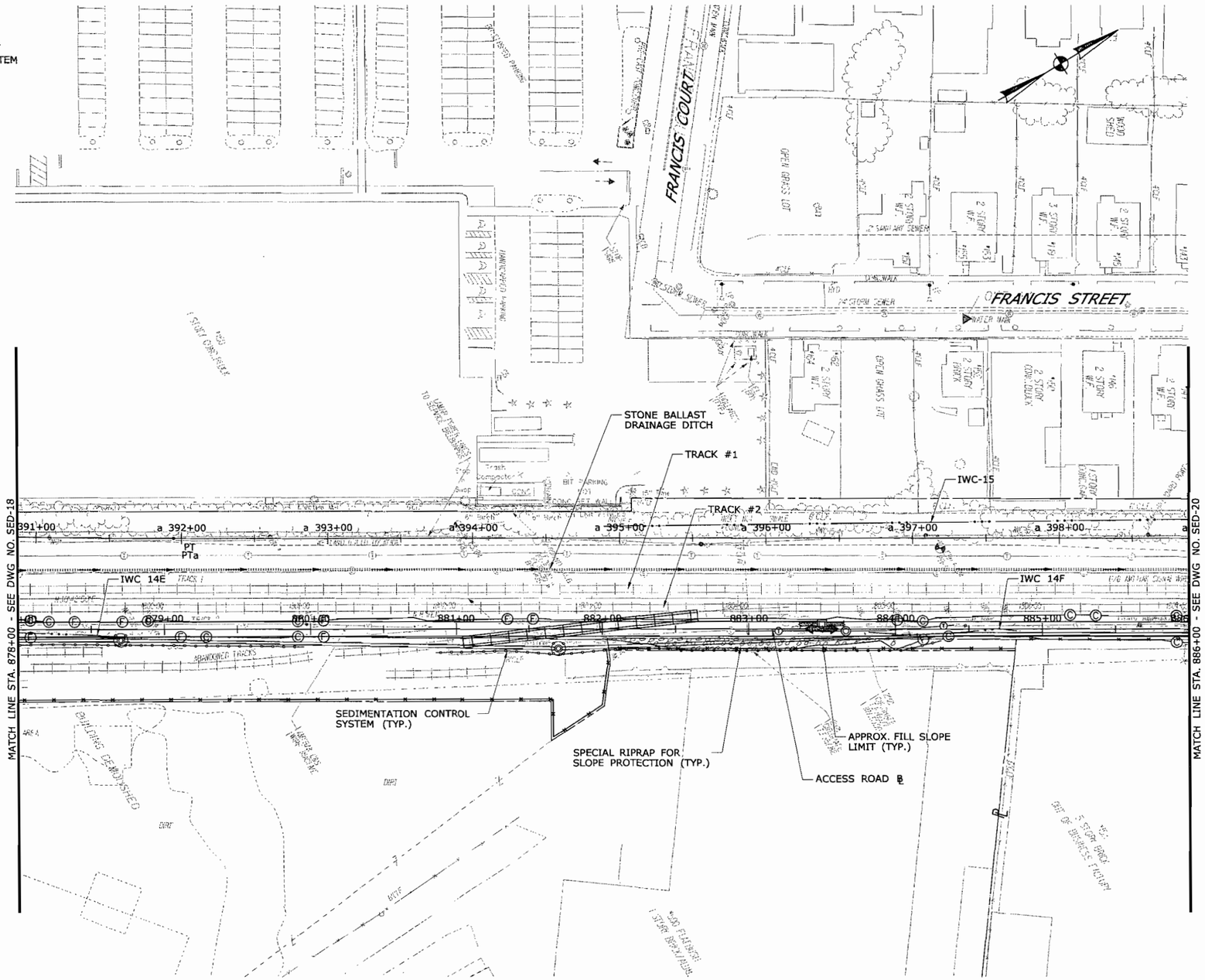
DRAWING NO. SED-18

SHEET NO. 134

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-19.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

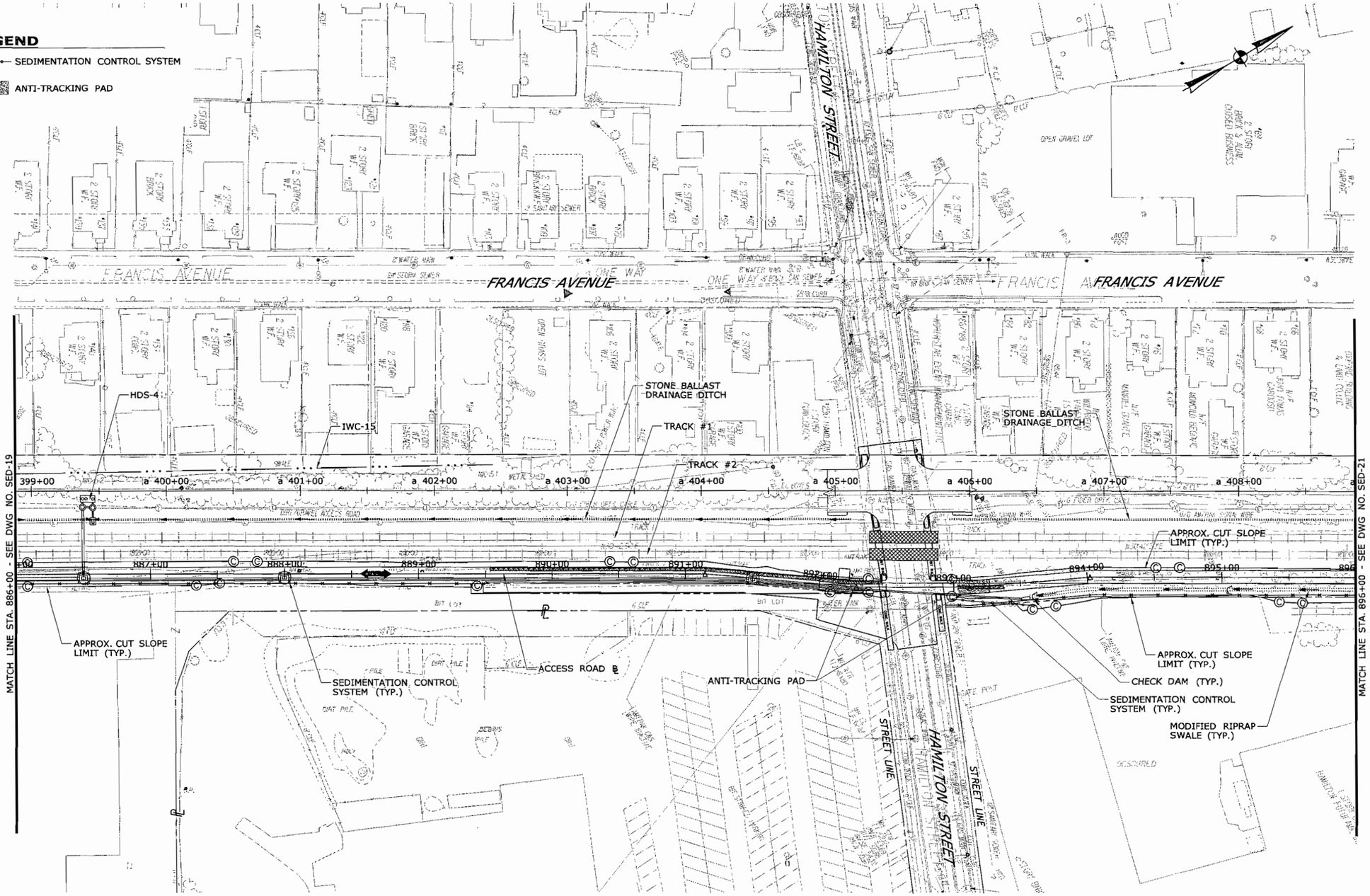
DRAWING NO. SED-19

SHEET NO. 135

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-20.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

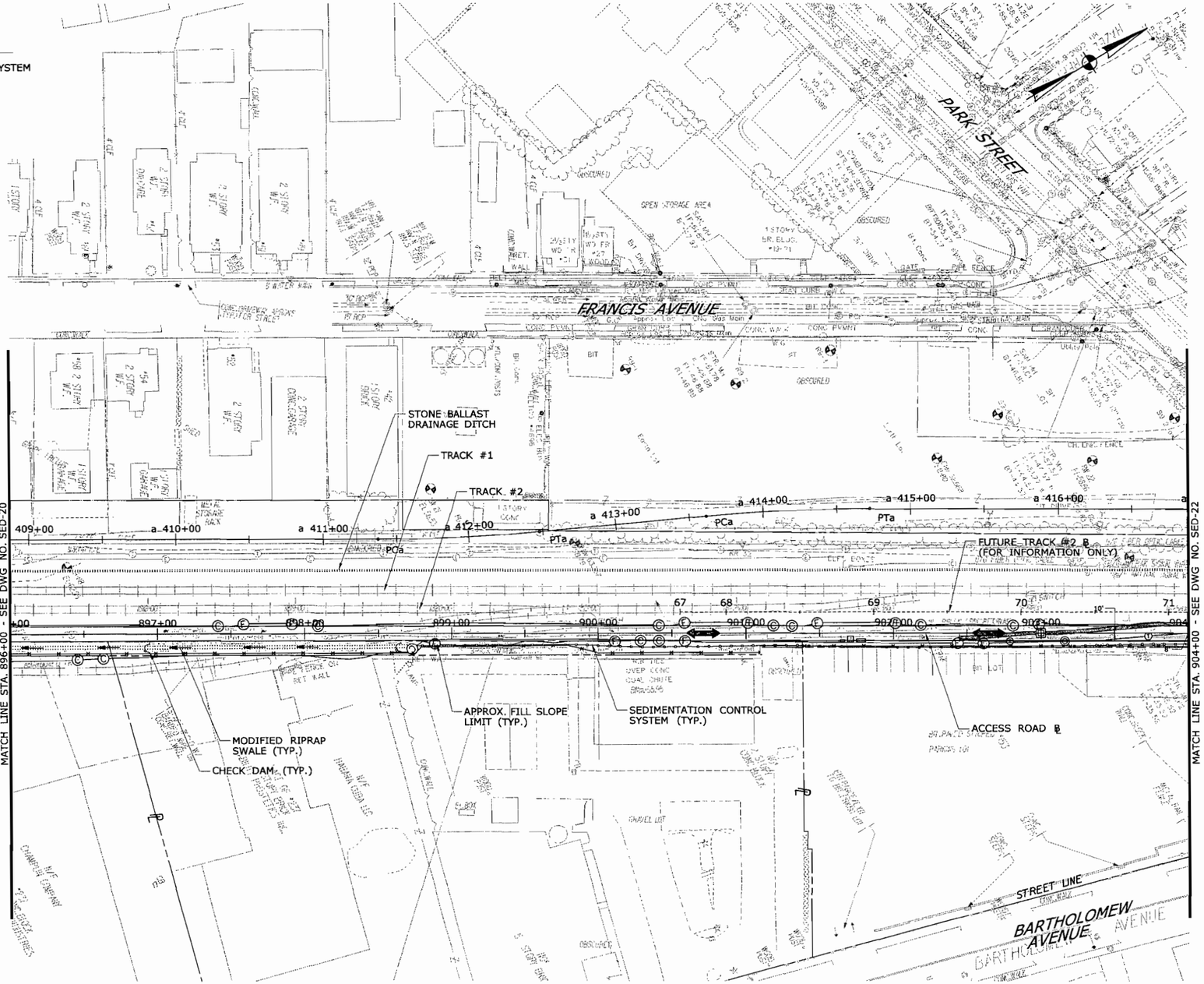
DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052
DRAWING NO. SED-20
SHEET NO. 136

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-21.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

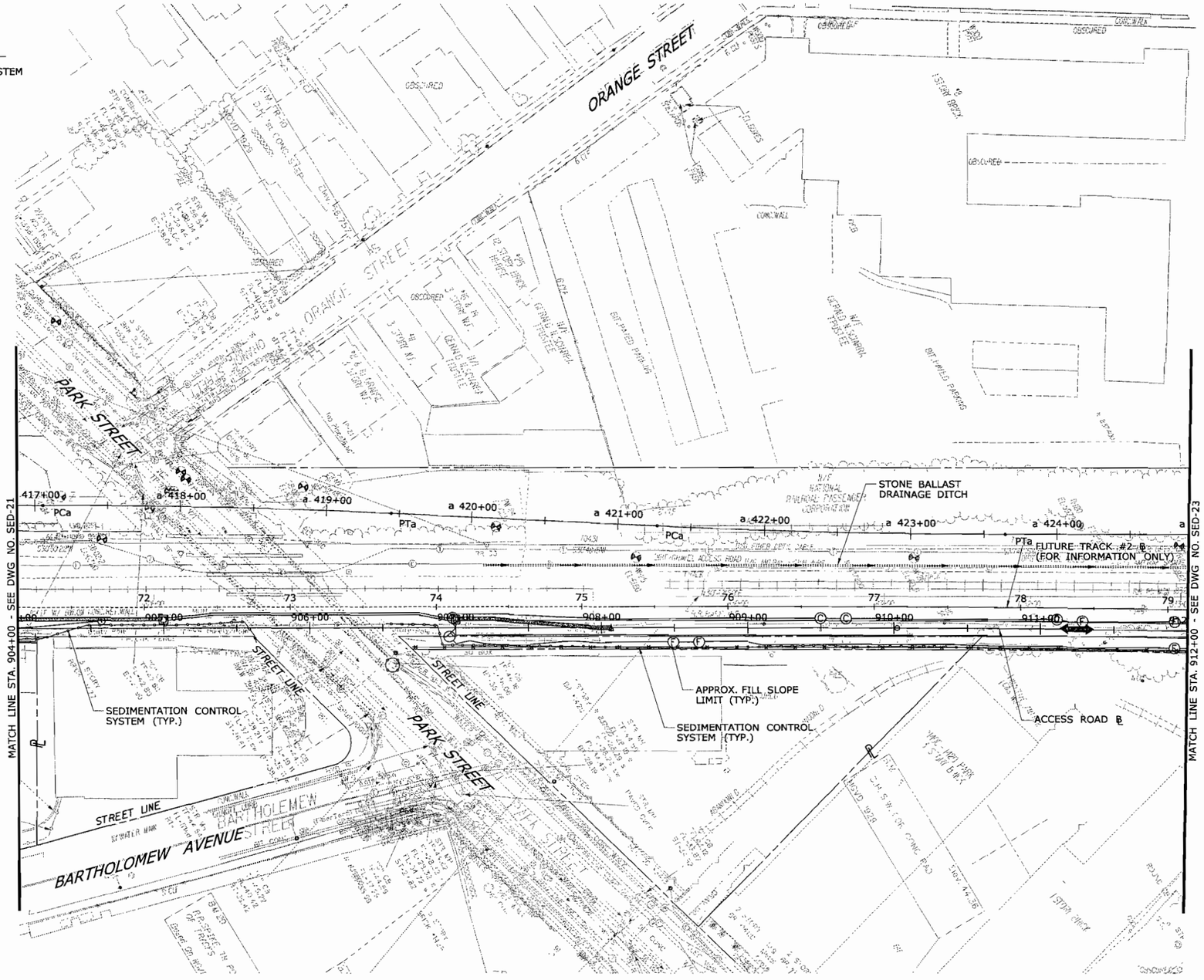
DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052
DRAWING NO. SED-21
SHEET NO. 137

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-22.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

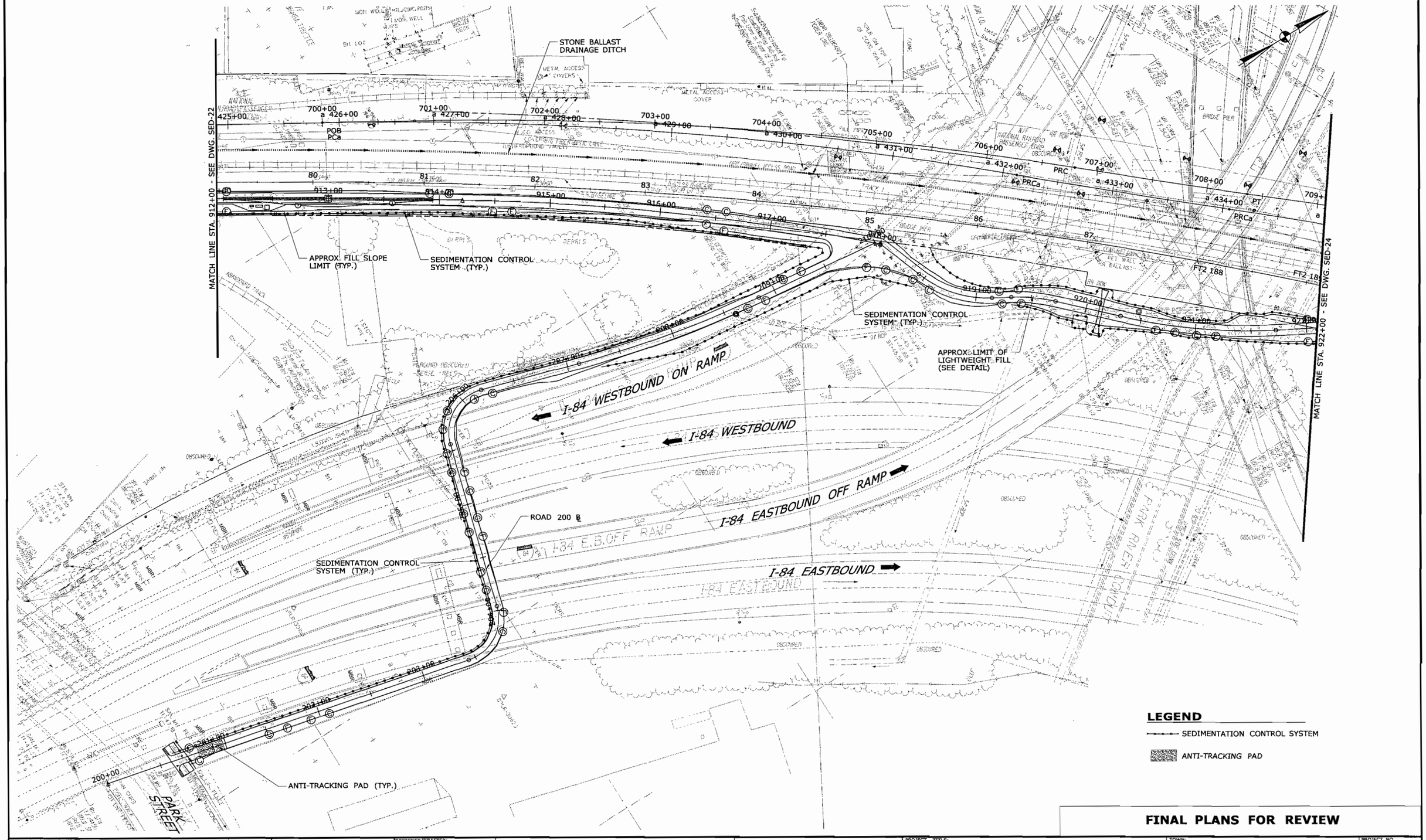
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

DRAWING NO. SED-22

SHEET NO. 138



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted: $DATE$

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILEA$

MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

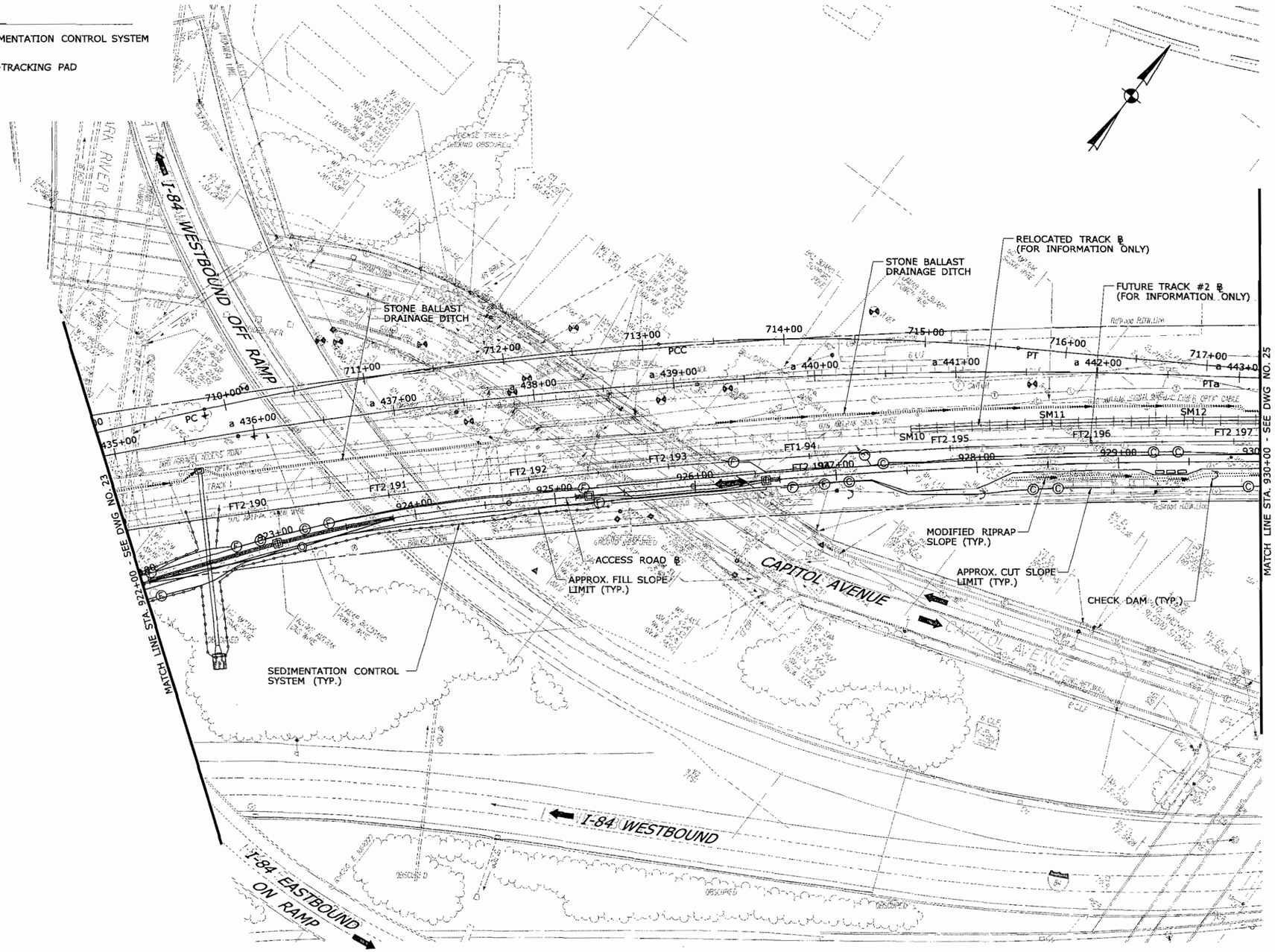
DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052
DRAWING NO. SED-23
SHEET NO. 139

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF

CHECKED BY: ALM

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-24.dgn

MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052

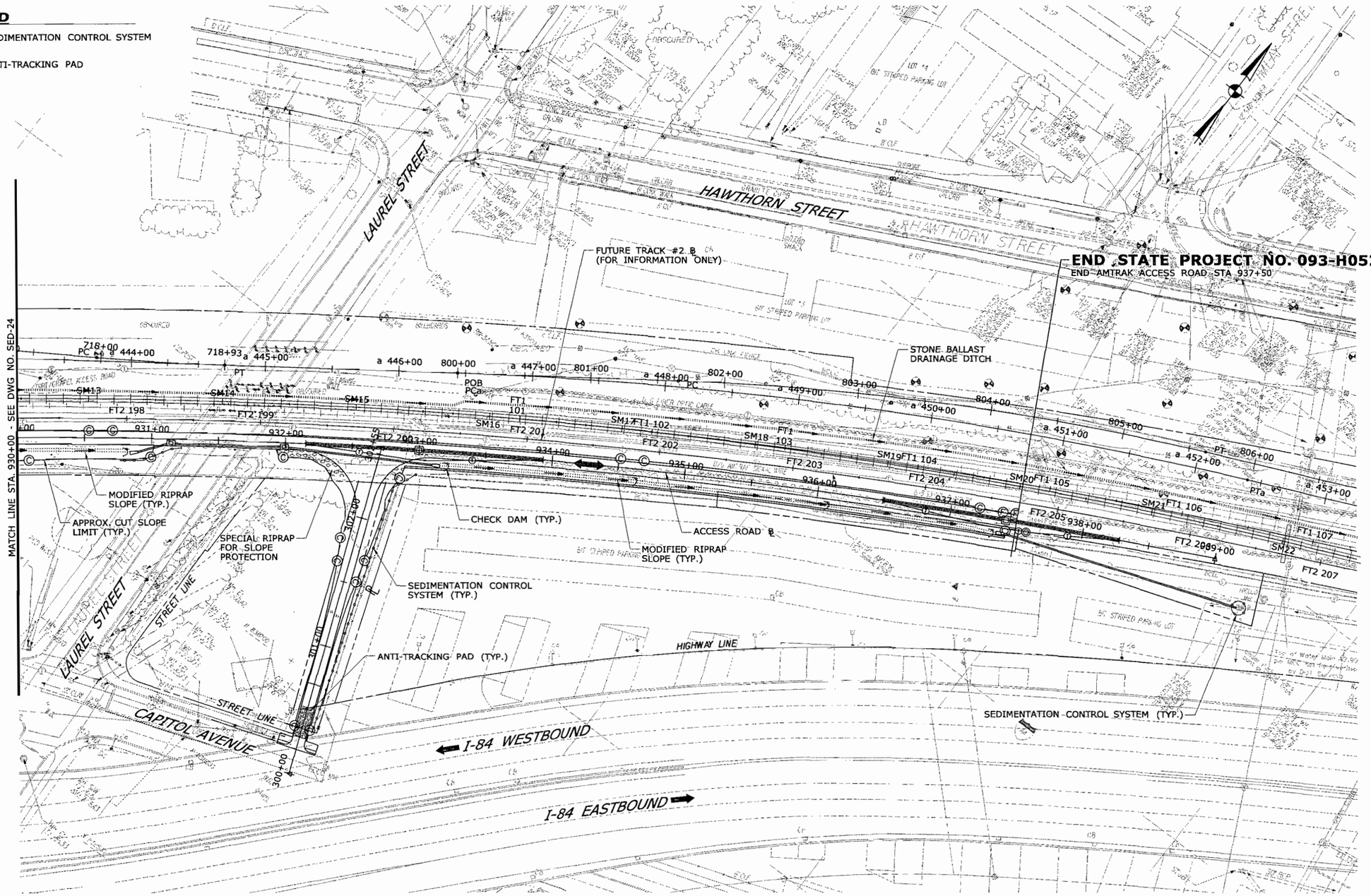
DRAWING NO. SED-24

SHEET NO. 140

LEGEND

SEDIMENTATION CONTROL SYSTEM

ANTI-TRACKING PAD



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted: 7/17/2010

DESIGNER/DRAFTER: CJF
CHECKED BY: ALM
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_093_H052_SED-25.dgn

MICHAEL BAKER ENGINEERING, INC.

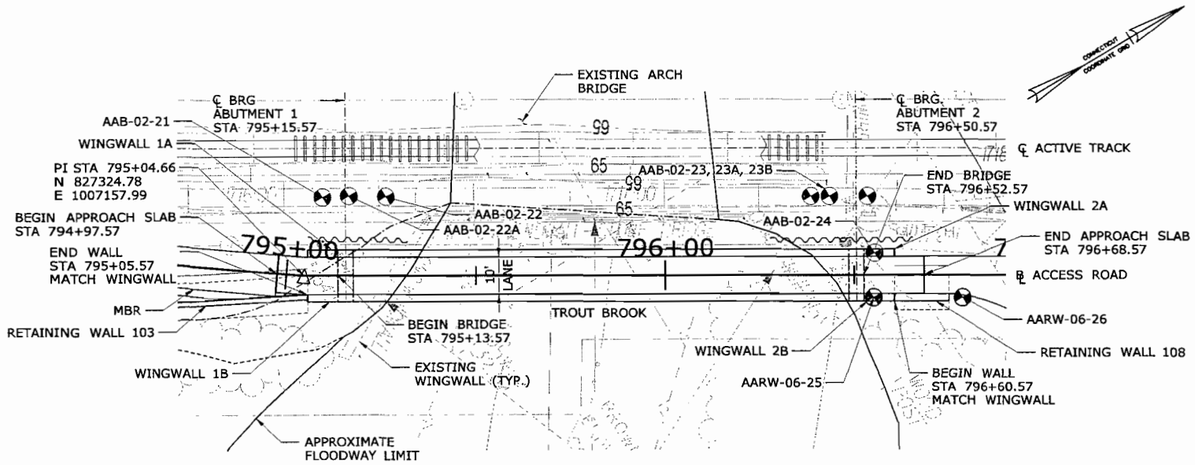
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

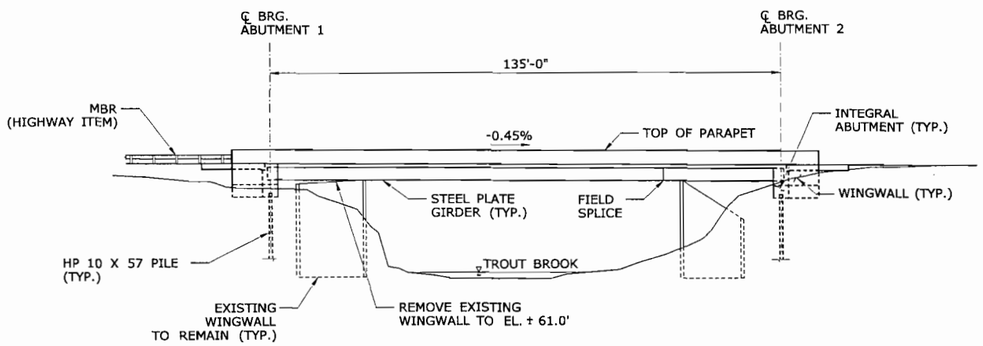
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT NO. 093-H052
DRAWING NO. SED-25
SHEET NO. 141



PLAN
SCALE: 1" = 20'



NOTE: RETAINING WALLS 103 & 108 NOT SHOWN FOR CLARITY.

EAST ELEVATION
SCALE: 1" = 20'

CONCRETE DISTRIBUTION		
Superstructure	C.Y.	130*
Substructure	C.Y.	65
Footings	C.Y.	0
Total	C.Y.	195

*INCLUDES LMC OVERLAY

INSPECTION OF FIELD WELDS		
METHODS	UNIT	QUANTITY
Ultrasonic	inch	0
Magnetic Particle	feet	0

TABLE OF SHIPPING WEIGHTS			
DESCRIPTION	LENGTH	HEIGHT	WEIGHT
G1-G4	102.25'	4.78'	27.0 K
G1-G4	34.75'	4.78'	9.2 K

NOTICE TO BRIDGE INSPECTORS	
THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS (THE LISTING OF COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE). THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.	
COMPONENT OR DETAIL	BRIDGE SHEET REFERENCE
None	-

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JAN 2010, AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS (AASHTO 2004), WITH THE INTERIM SPECIFICATIONS UP TO AND INCLUDING 2008, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003) WITH REVISIONS DATED MARCH 2009.

ALLOWABLE DESIGN STRESSES:
CLASS "A" CONCRETE BASED ON f'c = 3000 PSI.
CLASS "F" CONCRETE BASED ON f'c = 4000 PSI

REINFORCEMENT
(ASTM A615 GRADE 60) fy = 60 KSI.

STRUCTURAL STEEL
AASHTO M270, GRADE 50W fy = 50 KSI

LIVE LOAD: HL-93

FUTURE PAVING ALLOWANCE: NONE

STRUCTURAL STEEL: SEE STRUCTURAL SHEET NOTES FOR DESIGNATIONS AND REQUIREMENTS.

PAINT: PAINTING OF THE STRUCTURAL STEEL IS ONLY REQUIRED AT THE ENDS OF THE GIRDERS. STEEL SURFACES ARE TO BE PREPARED FOR WEATHERING IN ACCORDANCE WITH THE SPECIFICATIONS. TOP COAT SHALL BE FEDERAL STANDARD 595 COLOR NO. 20062, BROWN.

PILE LOADS: THE VARIOUS LIMIT STATE LOAD COMBINATIONS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE LOAD COMBINATIONS AND LOAD FACTORS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE. ALL ELEVATIONS ARE GIVEN IN FEET. WHEN ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

REMAIN-IN-PLACE FORMS: THE USE OF REMAIN IN PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.

COMPOSITE CONSTRUCTION: NO TEMPORARY INTERMEDIATE SUPPORTS SHALL BE USED DURING THE PLACING AND SETTING OF THE CONCRETE DECK SLAB. TEMPORARY SUPPORTS MAY BE USED FOR STRUCTURAL STEEL ERECTION ONLY. CONSTRUCTION LOADS AND DEAD LOADS WILL BE PERMITTED WHEN DIRECTED BY THE ENGINEER BUT ONLY WHEN THE CONCRETE HAS REACHED A STRENGTH OF f'c = 3500 PSI. LIVE LOADS (TRAFFIC) WILL BE PERMITTED ON THE STRUCTURE AFTER THE CONCRETE HAS REACHED A STRENGTH OF f'c = 4000 PSI.

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR THE ENTIRE SUBSTRUCTURE AND THE PARAPETS OF U-TYPE WINGWALLS.

CLASS "F" CONCRETE: CLASS "F" CONCRETE SHALL BE USED FOR BRIDGE DECKS INCLUDING PARAPETS, AND APPROACH SLABS.

JOINT SEAL: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED.

EPOXY COATED REINFORCING BARS: ALL REINFORCEMENT IN THE SUPERSTRUCTURE INCLUDING THE CONCRETE DECK SLAB AND THE PARAPETS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED. THESE BARS SHALL BE INCLUDED IN THE PAY ITEM FOR "DEFORMED STEEL BARS - EPOXY COATED."

ALL REINFORCEMENT IN THE *TOP MAT OF THE CONCRETE APPROACH SLABS* INCLUDING THOSE IN THE HEADERS SHALL BE EPOXY COATED. THESE BARS SHALL BE INCLUDED IN THE PAY ITEM FOR "DEFORMED STEEL BARS - EPOXY COATED."

FELT: THE COST OF FURNISHING AND INSTALLING 15 LB. ROOFING FELT IS INCLUDED IN THE ITEM FOR "CLASS 'A' CONCRETE."

PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE ITEM "CLASS 'A' CONCRETE."

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

TRAFFIC: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR "MAINTENANCE AND PROTECTION OF TRAFFIC" AND "SECTION 1.08 - PROSECUTION AND PROGRESS."

UTILITIES: THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF THE CONSTRUCTION SITE.

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted: 7/28/2010

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

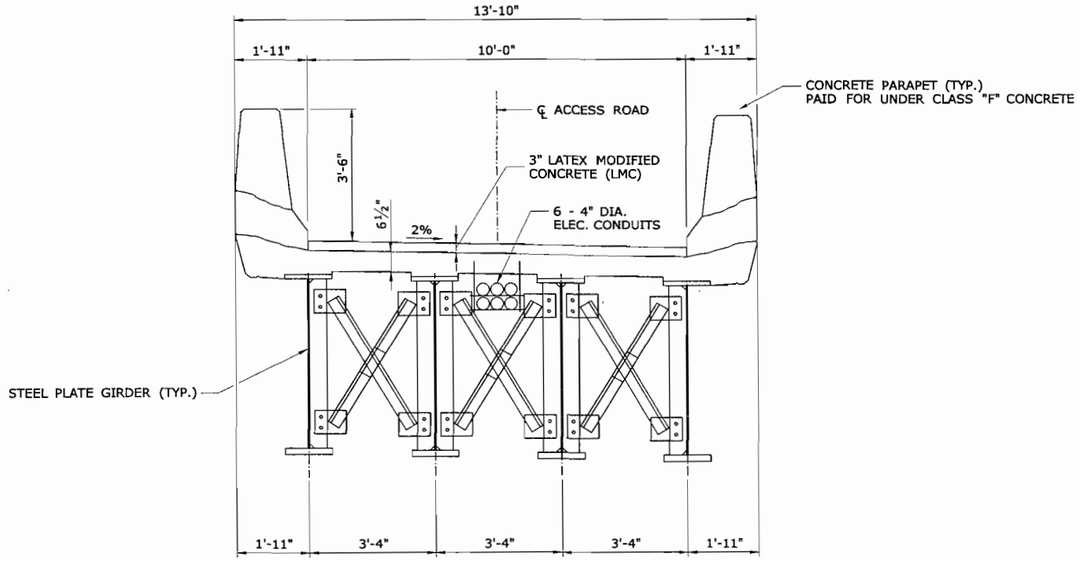
SIGNATURE/ BLOCK:
Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

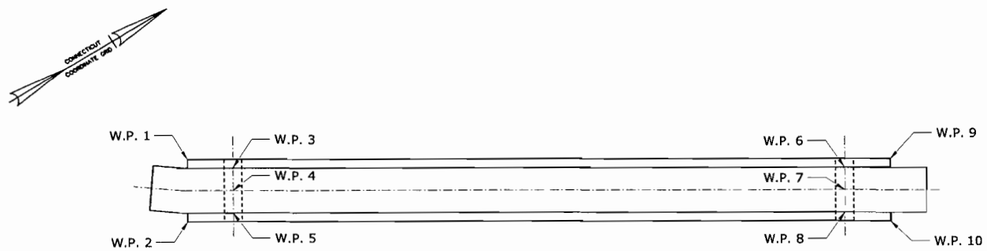
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: GENERAL PLAN - 1

PROJECT NO. 093-H052
DRAWING NO. S-01
SHEET NO. 15.02.001



PROPOSED SECTION
SCALE: 1/2" = 1'



LOCATION PLAN
SCALE: N.T.S.

TABLE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANT.
STRUCTURE EXCAVATION - EARTH (COMPLETE)	C.Y.	100
PERVIOUS STRUCTURE BACKFILL	C.Y.	60
SHEAR CONNECTORS	L.S.	1
PVC PLASTIC PIPE WEEPHOLES	Ea.	1
PLAIN ELASTOMERIC BEARINGS	Ea.	8
CLASS "A" CONCRETE	C.Y.	65
CLASS "F" CONCRETE	C.Y.	120
LATEX MODIFIED CONCRETE	C.Y.	20
ASPHALTIC PLUG EXPANSION JOINT SYSTEM	C.F.	9
DEFORMED STEEL BARS	Lb.	6500
DEFORMED STEEL BARS - EPOXY COATED	Lb.	25000
WELDED WIRE FABRIC - EPOXY COATED	S.Y.	200
STRUCTURAL STEEL (SITE NO. 1)	L.S.	1
BITUMEN COATING OF PILES	L.F.	560
FURNISHING STEEL PILES	Lb.	31000
PRE-AUGERING OF PILES	L.F.	120
DRIVING STEEL PILES	L.F.	720
POINT REINFORCING FOR STEEL PILES	Ea.	8
TEST PILE (HP 10 X 57 - 90' LONG)	Ea.	2
DYNAMIC PILE DRIVING ANALYSIS (PDA) TEST	Ea.	2
MEMBRANE WATERPROOFING	S.Y.	8
TEMPORARY SHEET PILING (RAILROAD)	S.F.	
SHEET PILING MATERIAL LEFT IN PLACE (RAILROAD)	S.F.	
NO. 8 CRUSHED STONE	C.F.	405
REMOVAL OF EXISTING MASONRY	C.Y.	20

TABLE OF COORDINATES

WORKING POINT	DESCRIPTION	STATION	OFFSET	COORDINATE NORTHING	COORDINATE EASTING
1	BEGIN WW1A	795+05.57	6.92' LT	827329.089	1007162.502
2	BEGIN WW1B	795+05.57	6.92' RT	827322.027	1007174.372
3	℄ BRG @ SW GUTTERLINE	795+15.57	5.00' LT	827336.707	1007169.259
4	℄ BRG @ ℄	795+15.57	0.0'	827334.150	1007173.556
5	℄ BRG @ SE GUTTERLINE	795+15.57	5.00' RT	827331.593	1007177.853
6	℄ BRG @ NW GUTTERLINE	796+50.57	5.00' LT	827453.741	1007236.584
7	℄ BRG @ ℄	796+50.57	0.0'	827450.219	1007242.502
8	℄ BRG @ NE GUTTERLINE	796+50.57	5.00' RT	827447.662	1007246.799
9	END WW2A	796+60.57	6.92' LT	827462.337	1007241.693
10	END WW2B	796+60.57	6.92' RT	827455.262	1007253.580

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

REV.#	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted: 7/28/2010

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

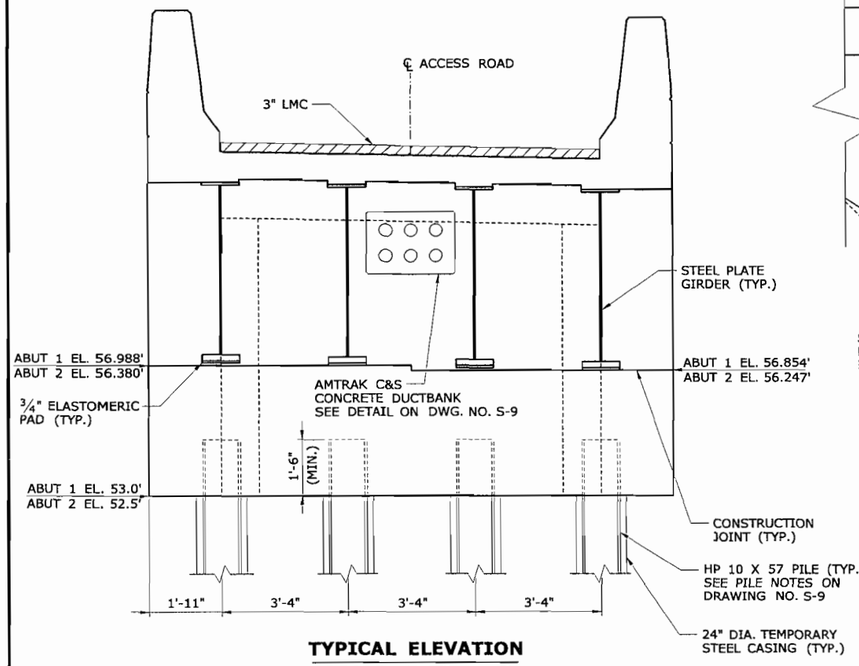
Filename: $FILE$

SIGNATURE/ BLOCK:
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

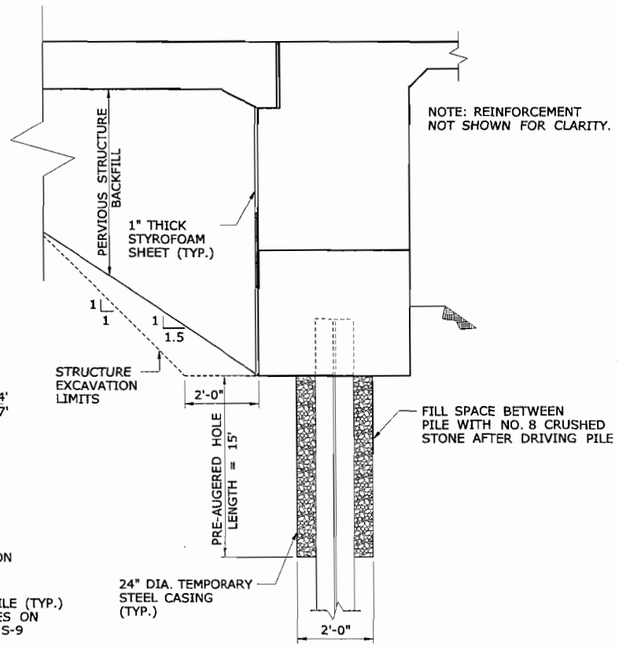
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: GENERAL PLAN - 2

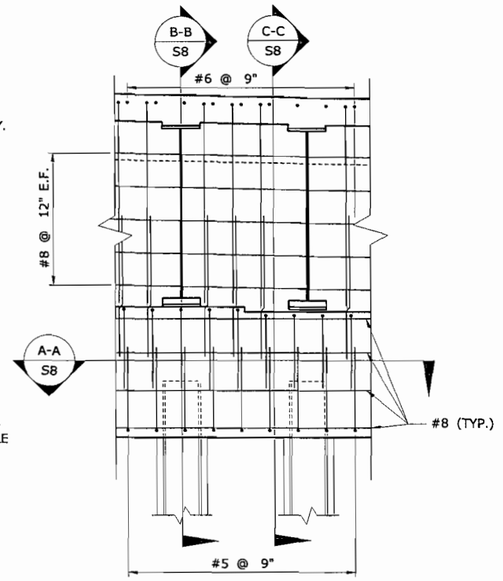
PROJECT NO. 093-H052
DRAWING NO. S-02
SHEET NO. 15.02.002



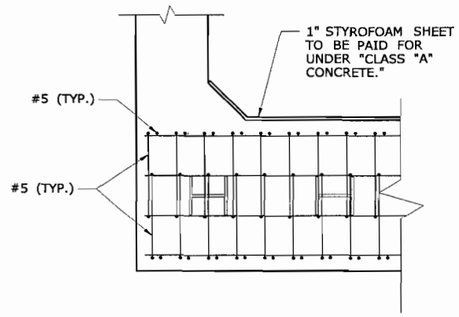
TYPICAL ELEVATION
SCALE: 1/2" = 1'



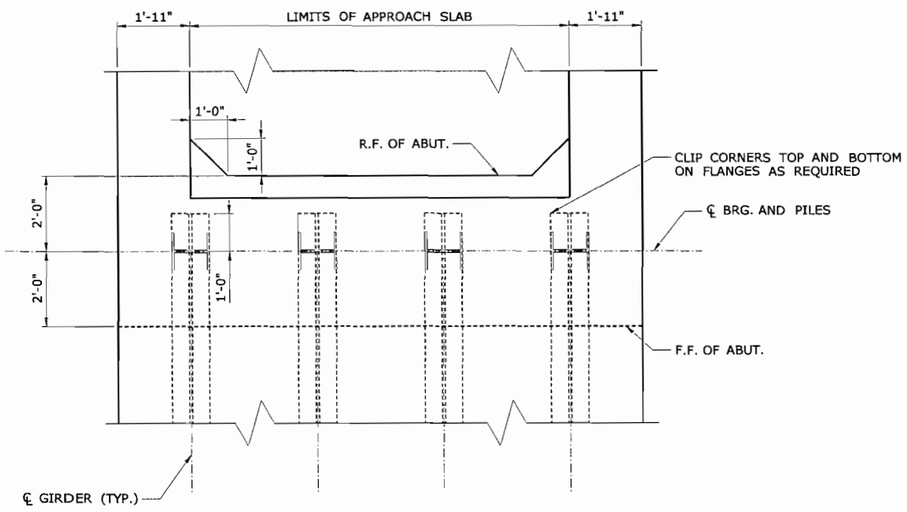
INTEGRAL ABUTMENT PILE INSTALLATION DETAIL
SCALE: 1/2" = 1'



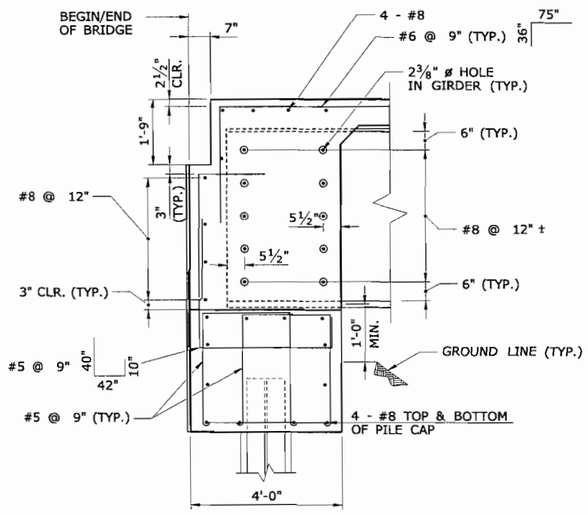
PARTIAL SECTION THRU ABUTMENT STEEL GIRDERS
SCALE: 1/2" = 1'



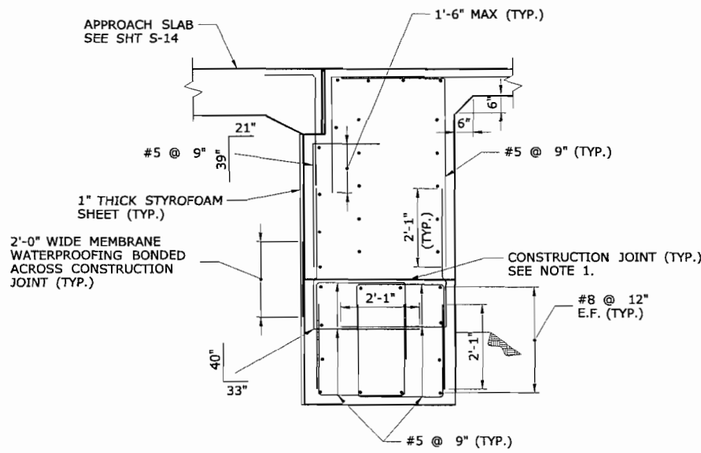
TYPICAL SECTION A-A
SCALE: 1/2" = 1'



TYPICAL PLAN
SCALE: 1/2" = 1'



TYPICAL SECTION B-B
SCALE: 1/2" = 1'



NOTE:
1. TROWEL SMOOTH SURFACE OF CONSTRUCTION JOINT DIRECTLY UNDER GIRDER AND AREA EXTENDING 2" OUTSIDE BEARING AREA. PROVIDE RAKED FINISH FOR THE REMAINDER OF CONSTRUCTION JOINT.

2. ELASTOMERIC BEARING NOT SHOWN FOR CLARITY.

TYPICAL SECTION C-C
SCALE: 1/2" = 1'

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

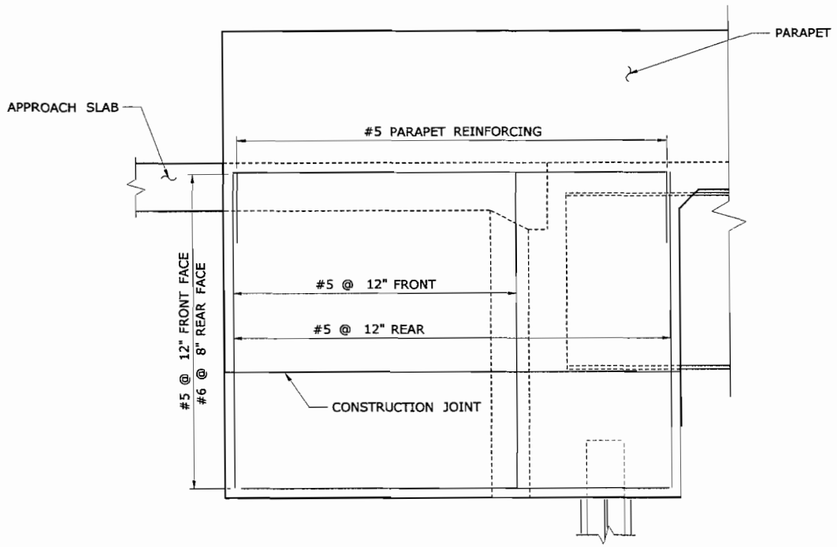
SIGNATURE/BLOCK: Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

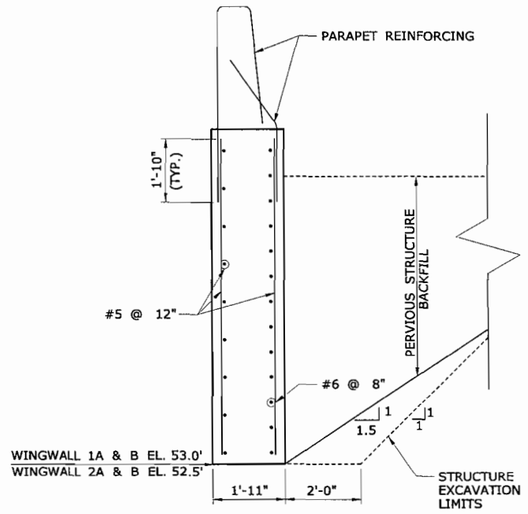
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: INTEGRAL ABUTMENT DETAILS - 1

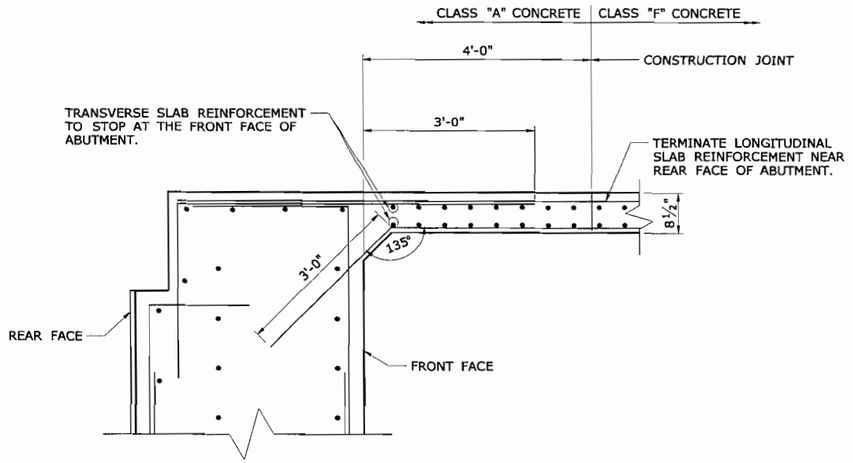
PROJECT NO. 093-H052
DRAWING NO. S-08
SHEET NO. 15.02.008



WINGWALL ELEVATION
SCALE: 1/2" = 1'



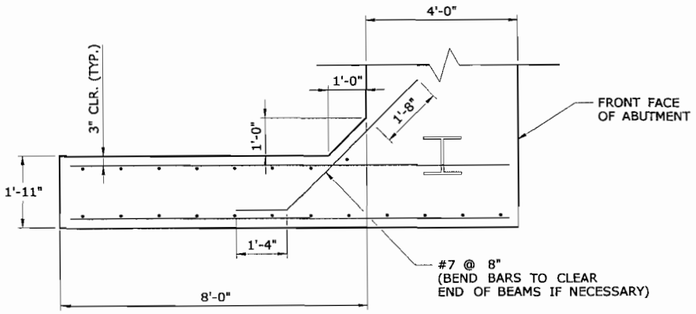
WINGWALL SECTION
SCALE: 1/2" = 1'



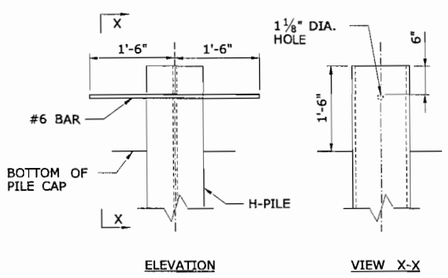
NOTES:

POUR BRIDGE DECK BEFORE POURING THE END OF THE DIAPHRAGM EXCEPT THE PORTION OF THE DECK WITHIN 4'-0" FROM THE FRONT FACE OF THE ABUTMENT WHICH WILL BE POURED 2 HOURS AFTER PLACING THE END DIAPHRAGM.

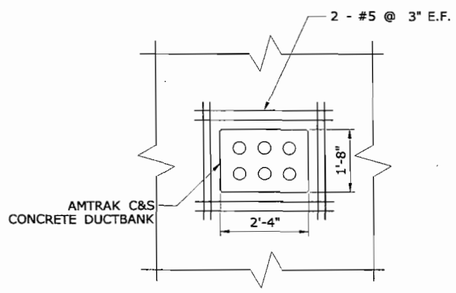
SLAB-ABUTMENT CONNECTION DETAIL
SCALE: 3/4" = 1'



WINGWALL PLAN
SCALE: 1/2" = 1'



PILE CAP CONNECTION DETAIL
SCALE: 3/4" = 1'



ABUTMENT BLOCKOUT DETAIL
SCALE: 1/2" = 1'

PILE NOTES

1. STEEL PILES SHALL BE HP10 X 57 CONFORMING TO THE REQUIREMENTS OF ASTM A709 GRADE 50.
2. STEEL PILES SHALL HAVE A BITUMEN COATING APPLIED TO THEIR ENTIRE LENGTH.
3. PILES SHALL BE DRIVEN TO REFUSAL ON BEDROCK.
4. THE FIRST PILE INSTALLED AT EACH ABUTMENT SHALL SERVE AS THE TEST PILE. PILE TESTING SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "DYNAMIC PILE DRIVING ANALYSIS (PDA) TEST."
5. A 24" DIA. OPEN-ENDED STEEL SHELL SHALL BE INSTALLED AT EACH PILE LOCATION TO A MINIMUM OF 15 FT BELOW THE BOTTOM OF ABUTMENT OR TO TOP OF SILT AND CLAY LAYER, WHICHEVER IS GREATER. AFTER PILE INSTALLATION, THE SHELL CASING SHALL BE FILLED WITH CRUSHED STONE. THE CASING IS TO BE REMOVED AFTER THE PILES ARE DRIVEN.
6. PRIOR TO DRIVING PILES, THE CONTRACTOR SHALL SUBMIT THE PILE DRIVING EQUIPMENT, METHOD AND SEQUENCE TO THE ENGINEER FOR REVIEW AND APPROVAL.
7. THE CONTRACTOR SHALL SUBMIT PILE POINT REINFORCEMENT AND SPLICE DETAILS TOT HE ENGINEER FOR REVIEW AND APPROVAL.
8. THE PILE ORDER LENGTH IS 90 FT.

LEGEND

I -VERTICAL PILE

MAXIMUM DESIGN PILE LOADS	
LIMIT STATE	MAXIMUM DESIGN PILE LOAD
STRENGTH I	201 KIPS
STRENGTH III	216 KIPS
STRENGTH V	224 KIPS

ULTIMATE PILE CAPACITY	
SUBSTRUCTURE UNIT	ULTIMATE PILE CAPACITY
ABUTMENTS	243 KIPS

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted: 7/28/2010

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

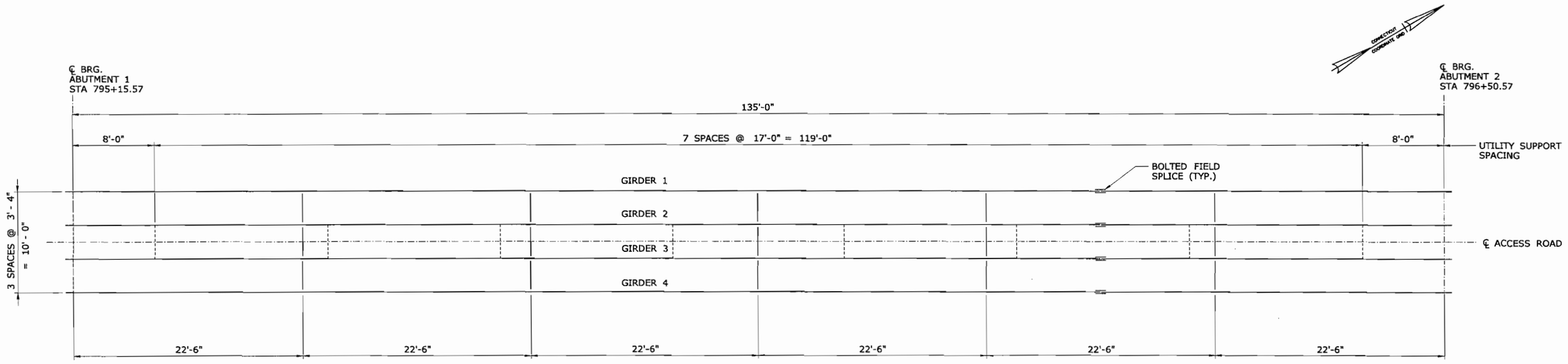
Filename: $FILE$

SIGNATURE/BLOCK: Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

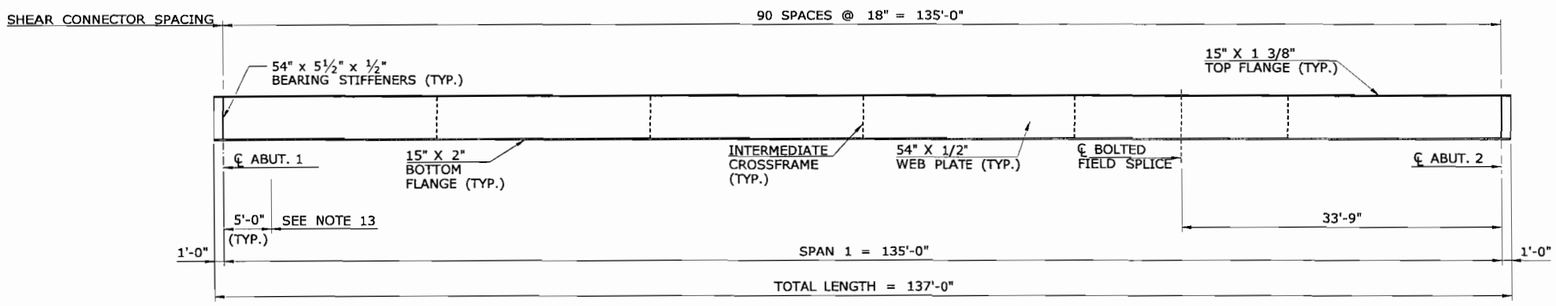
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: INTEGRAL ABUTMENT DETAILS - 2

PROJECT NO. 093-H052
DRAWING NO. S-09
SHEET NO. 15.02.009



FRAMING PLAN
SCALE: 3/16" = 1'



GIRDER ELEVATION
SCALE: 1/8" = 1'

NOTE:
FOR SHEAR CONNECTOR DETAILS,
SEE DRAWING NO. S-11.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL (SITE NO. 1) SHALL CONFORM TO AASHTO M270, GRADE 50 WT2
2. WELDING DETAILS, PROCEDURES AND TESTING METHODS SHALL CONFORM TO THE ANSI/AASHTO/AWS D1.5-(2006) - BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
3. BOLTED FIELD SPLICES, OTHER THAN THOSE INDICATED ON THE PLANS, WILL NOT BE ALLOWED EXCEPT WITH THE WRITTEN PERMISSION OF THE ENGINEER PRIOR TO THE SUBMISSION OF SHOP PLANS. IF ALLOWED, THESE SPLICES SHALL BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE COST OF THESE SPLICES, INCLUDING THE COST OF DESIGN, SHALL BE AT NO EXTRA EXPENSE TO THE STATE. WELDED FIELD SPLICES WILL NOT BE ALLOWED.
4. THE CONTRACTOR MAY PROVIDE A FULL LENGTH GIRDER WITHOUT THE SPLICE PROVIDED ALL APPROVALS AND TRANSPORTATION PERMITS ARE RECEIVED FROM THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
5. ALL WEB TO FLANGE, WEB TO BEARING STIFFENER AND BEARING STIFFENER TO FLANGE FILLET WELDS SHALL BE INSPECTED BY THE MAGNETIC PARTICLE METHOD.
6. MULTIPLE PASS WELDS, INSPECTED BY THE MAGNETIC PARTICLE METHOD SHALL HAVE EACH PASS OR LAYER INSPECTED AND ACCEPTED BEFORE PROCEEDING TO THE NEXT PASS OR LAYER, AS DETERMINED BY THE ENGINEER.
7. SHOP WEB SPLICES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN.
8. SHOP FLANGE SPLICES SHALL BE LOCATED A MINIMUM OF SIX INCHES FROM WEB SPLICES.
9. FLANGE OR WEB SPLICES SHALL BE LOCATED A MINIMUM OF SIX INCHES FROM STIFFENERS AND CONNECTION PLATES.
10. ENDS OF BEAMS SHALL BE VERTICAL AFTER THE APPLICATION OF FULL DEAD LOADS.
11. THE STRUCTURAL STEEL FABRICATORS SHALL BE CERTIFIED UNDER THE AISC QUALITY CONTROL PROGRAM, CATEGORY MBr - MAJOR STEEL BRIDGES.
12. THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS IN BEING.
13. BEAM ENDS SHALL BE PAINTED FROM THEIR ENDS TO A DISTANCE OF 5'-0" FROM ℄ BRG. THE PAINT SHALL BE FEDERAL STANDARD 595 COLOR NO. 20062, BROWN. SEE SPECIAL PROVISIONS.

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/28/2010

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

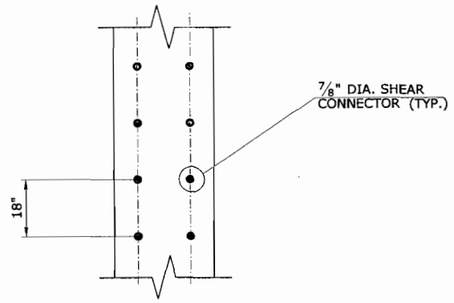
SIGNATURE/BLOCK:
Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

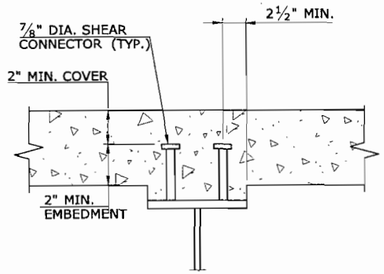
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
FRAMING PLAN

PROJECT NO. 093-H052
DRAWING NO. S-10
SHEET NO. 15.02.010

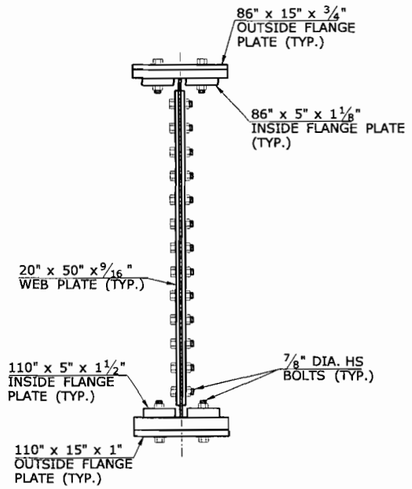




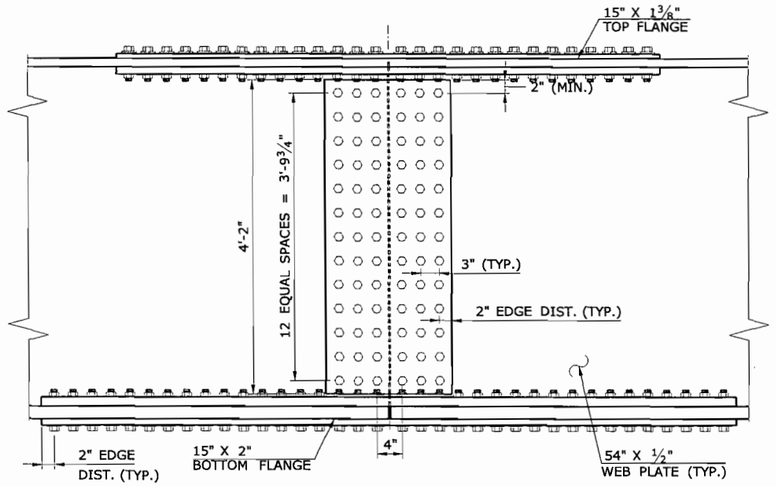
SHEAR CONNECTORS
SCALE: 1½" = 1'-0"

SHEAR CONNECTOR NOTES:

1. CONTRACTOR SHALL DETERMINE SHEAR CONNECTOR LENGTHS AFTER THE ERECTED BEAMS HAVE BEEN SURVEYED AND THE HAUNCH DEPTHS CALCULATED.
2. SHEAR CONNECTOR LENGTHS SHALL BE IN 1 INCH INCREMENTS.
3. SHEAR CONNECTOR LENGTHS OF UNSTACKED SHEAR CONNECTORS SHALL BE 8 INCHES.
4. MINIMUM SHEAR CONNECTOR LENGTHS SHALL BE 4 INCHES.
5. MINIMUM HAUNCH SHALL BE 1 INCH; IF IT IS DETERMINED THAT THE MINIMUM HAUNCH CANNOT BE MAINTAINED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
6. STACKED SHEAR CONNECTORS SHALL BE USED WHEN *HAUNCH DEPTH EXCEEDS 6 INCHES.*
7. FOR HAUNCH DETAILS, SEE DRAWING NO. S-13.

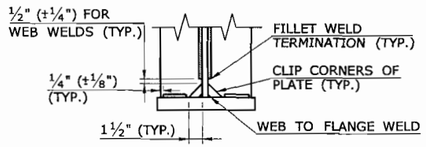


NOTE:
1. ALL BOLT HOLES SHALL BE 1" DIAMETER. ALL BOLTS SHALL BE 7/8" DIAMETER.



WEB SPLICE PLATE DETAIL
SCALE: 1"=1'-0"

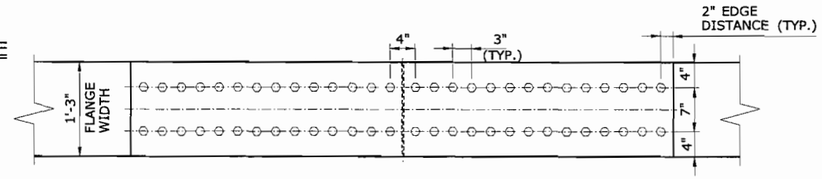
SECTION AT BOLTED FIELD SPLICE
SCALE: 1"=1'-0"



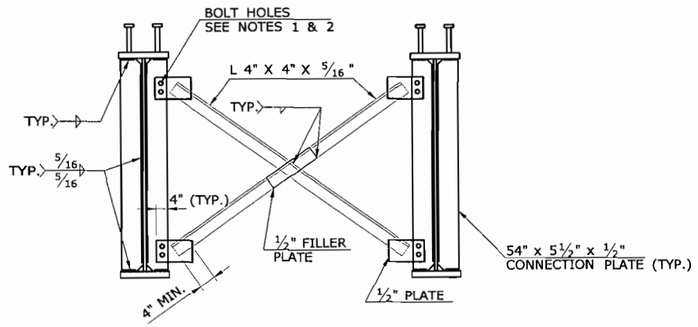
NOTES:

1. DETAIL IS SHOWN FOR BOTTOM FLANGE, TOP FLANGE IS SIMILAR.

WELD TERMINATION DETAIL
SCALE: 1½" = 1'-0"



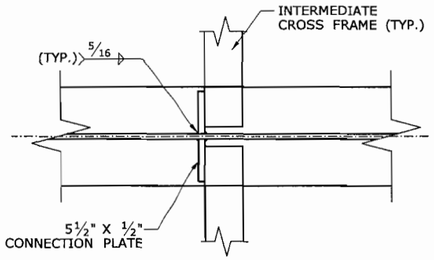
FLANGE SPLICE PLATE DETAIL
SCALE: 1"=1'-0"



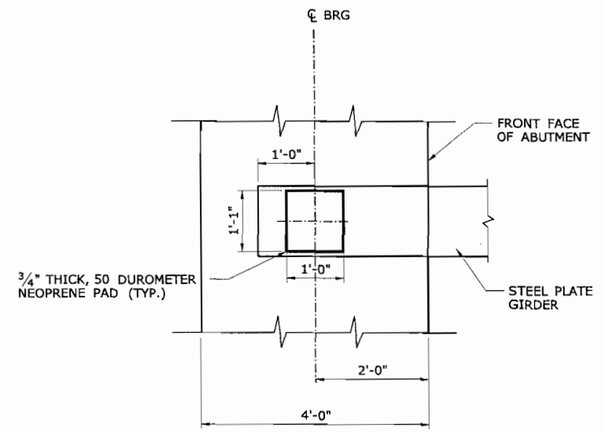
NOTES:

1. BOLT HOLES IN CHANNELS SHALL BE 15/16" DIAMETER (STANDARD) FOR 7/8" DIAMETER BOLTS. BOLT HOLES IN CONNECTION OR STIFFENER PLATES SHALL BE 1 1/16" DIAMETER (OVERSIZED).
2. TWO BOLTS PER CONNECTION SHALL BE USED.
3. GUSSET PLATES SHALL BE SQUARE OR RECTANGULAR.

INTERMEDIATE CROSS FRAME
SCALE: N.T.S.



CONNECTION PLATE AT INTERMEDIATE CROSS FRAMES
SCALE: 1½" = 1'-0"



BEARING PAD DETAIL
SCALE: ¾" = 1'-0"

BEARING NOTES:

1. THE ELASTOMER SHALL BE VIRGIN NEOPRENE (POLYCHLOROPRENE). THE ELASTOMER COMPOUND SHALL BE LOW TEMPERATURE GRADE 3, HAVE A SHORE "A" DUROMETER HARDNESS OF 50 ± 5 POINTS AND MEET THE REQUIREMENTS OF AASHTO DIVISION II - *CONSTRUCTION (SECTION 18).*
2. WELDING CLOSER THAN 1½" TO THE ELASTOMERIC BEARING IS PROHIBITED.
3. THE ELASTOMERIC BEARING SHALL BE INSTALLED WHEN THE AMBIENT AIR TEMPERATURE IS BETWEEN 40 AND 86 DEGREES F AND HAS BEEN WITHIN THIS RANGE FOR AT LEAST TWO HOURS.
4. THE COST OF FURNISHING AND INSTALLING THE ELASTOMERIC BEARING PADS SHALL BE PAID FOR UNDER THE ITEM "PLAIN ELASTOMERIC BEARINGS."

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted: 7/28/2010

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

SIGNATURE/BLOCK:
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: STEEL GIRDER DETAILS - 1

PROJECT NO. 093-H052
DRAWING NO. S-11
SHEET NO. 15.02.011

DEAD LOAD DEFLECTION AND BEAM CAMBER (IN.)

BEAM	*DEFLECTIONS*	SPAN 1 (L=135'-0")										
		℄ BRG. ABUT. 1	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	℄ BRG. ABUT 2
GIRDER 1	STRUCTURAL STEEL	0	-0.480	-0.908	-1.243	-1.456	-1.529	-1.456	-1.243	-0.908	-0.480	0
	ADDITIONAL DEAD LOAD	0	-0.551	-1.042	-1.427	-1.671	-1.754	-1.671	-1.427	-1.042	-0.551	0
	COMPOSITE DEAD LOAD	0	-0.353	-1.317	-1.804	-2.113	-2.219	-2.113	-1.804	-1.317	-0.353	0
	CAMBERS											
	TOTAL DEAD LOAD	0	1.384	3.267	4.474	5.240	5.502	5.240	4.474	3.267	1.384	0
	VERTICAL CURVE ORDINATES	-	-	-	-	-	-	-	-	-	-	-
	EXTRA CAMBER	0	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350	0
	TOTAL CAMBER	0	2.734	4.617	5.824	6.590	6.852	6.590	5.824	4.617	2.734	0
GIRDER 2	STRUCTURAL STEEL	0	-0.600	-1.135	-1.553	-1.819	-1.910	-1.819	-1.553	-1.135	-0.600	0
	ADDITIONAL DEAD LOAD	0	-0.514	-0.973	-1.332	-1.560	-1.638	-1.560	-1.332	-0.973	-0.514	0
	COMPOSITE DEAD LOAD	0	-0.705	-1.334	-1.827	-2.139	-2.246	-2.139	-1.827	-1.334	-0.705	0
	CAMBERS											
	TOTAL DEAD LOAD	0	1.819	3.442	4.712	5.518	5.794	5.518	4.712	3.442	1.819	0
	VERTICAL CURVE ORDINATES	-	-	-	-	-	-	-	-	-	-	-
	EXTRA CAMBER	0	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350	0
	TOTAL CAMBER	0	3.169	4.792	6.062	6.868	7.144	6.868	6.062	4.792	3.169	0
GIRDER 3	STRUCTURAL STEEL	0	-0.600	-1.135	-1.553	-1.819	-1.910	-1.819	-1.553	-1.135	-0.600	0
	ADDITIONAL DEAD LOAD	0	-0.514	-0.973	-1.332	-1.560	-1.638	-1.560	-1.332	-0.973	-0.514	0
	COMPOSITE DEAD LOAD	0	-0.705	-1.334	-1.827	-2.139	-2.246	-2.139	-1.827	-1.334	-0.705	0
	CAMBERS											
	TOTAL DEAD LOAD	0	1.819	3.442	4.712	5.518	5.794	5.518	4.712	3.442	1.819	0
	VERTICAL CURVE ORDINATES	-	-	-	-	-	-	-	-	-	-	-
	EXTRA CAMBER	0	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350	0
	TOTAL CAMBER	0	3.169	4.792	6.062	6.868	7.144	6.868	6.062	4.792	3.169	0
GIRDER 4	STRUCTURAL STEEL	0	-0.480	-0.908	-1.243	-1.456	-1.529	-1.456	-1.243	-0.908	-0.480	0
	ADDITIONAL DEAD LOAD	0	-0.551	-1.042	-1.427	-1.671	-1.754	-1.671	-1.427	-1.042	-0.551	0
	COMPOSITE DEAD LOAD	0	-0.353	-1.317	-1.804	-2.113	-2.219	-2.113	-1.804	-1.317	-0.353	0
	CAMBERS											
	TOTAL DEAD LOAD	0	1.384	3.267	4.474	5.240	5.502	5.240	4.474	3.267	1.384	0
	VERTICAL CURVE ORDINATES	-	-	-	-	-	-	-	-	-	-	-
	EXTRA CAMBER	0	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350	1.350	0
	TOTAL CAMBER	0	2.734	4.617	5.824	6.590	6.852	6.590	5.824	4.617	2.734	0

CAMBER TABLE NOTES:

1. STRUCTURAL STEEL DEFLECTIONS ARE DUE TO BEAMS AND DIAPHRAGMS PLACED BEFORE THE SLAB IS POURED.

2. OTHER DEAL LOAD DELFECTIONS ARE DUE TO THE CONCRETE SLAB, PARAPETS, HAUNCH, AND LMC OVERLAY.

3. TOTAL DEAD LOAD CAMBERS ARE TO COMPENSATE FOR THE SUMMATION OF THE CALCULATED DEFLECTION TO THE THEORETICAL LINE IN EACH SPAN CONNECTING THE POINTS LOCATED AT THE STRUCTURAL STEEL AND OTHER DEAD LOAD MEASURED TOP OF WEB AT THE CENTERLINE OF BEARINGS.

4. UPWARD DEFLECTIONS ARE POSITIVE.

5. DOWNWARD DEFLECTIONS ARE NEGATIVE.

6. CAMBERS LISTED IN THE TABLE AS POSITIVE ARE UPWARD CAMBERS AND NEGATIVE VALUES ARE DOWNWARD CAMBERS.

7. THE ENDS OF THE BEAMS SHALL BE VERTICAL AFTER APPLICATION OF FULL DEAD LOADS.

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

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SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

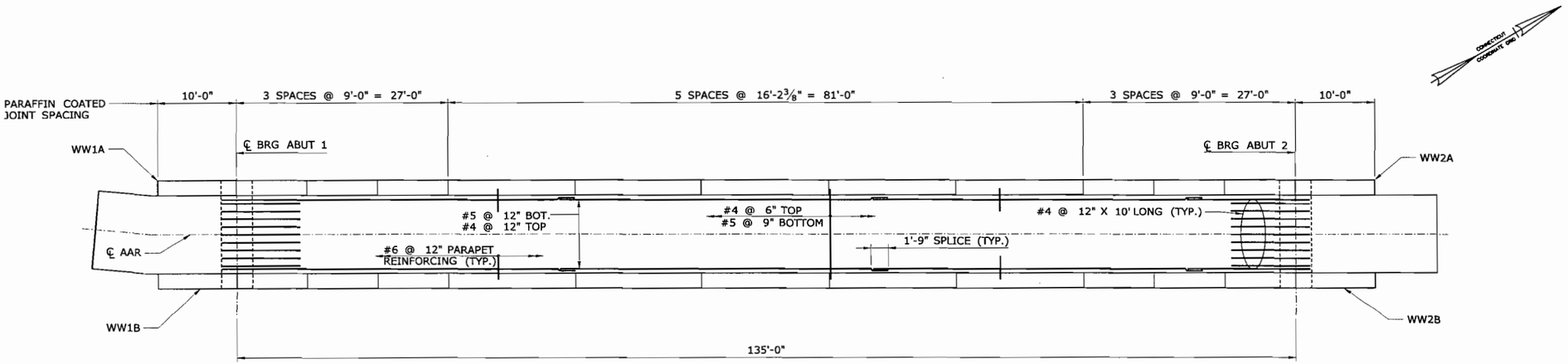
SIGNATURE/BLOCK:
Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

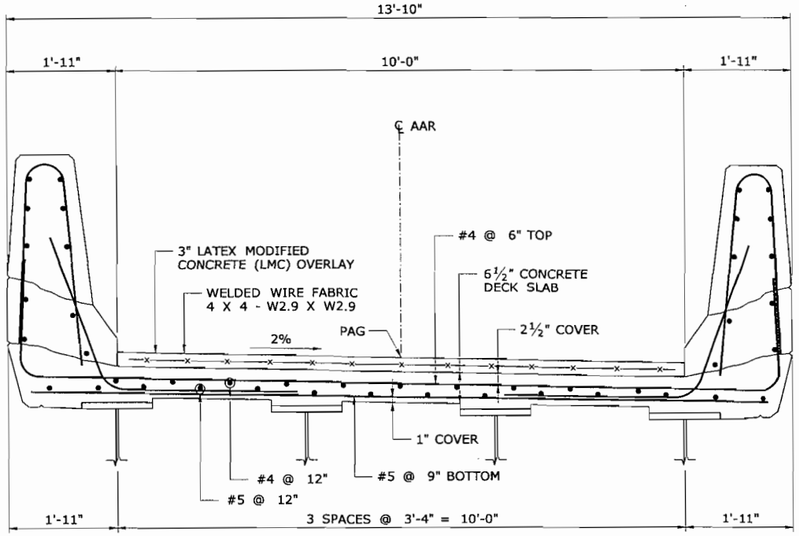
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: STEEL GIRDER DETAILS - 2

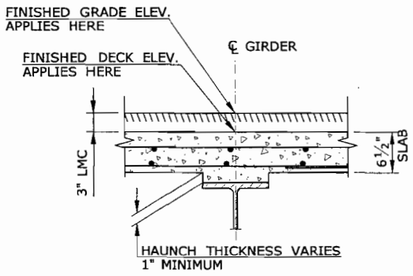
PROJECT NO. 093-H052
DRAWING NO. S-12
SHEET NO. 15.02.012



SLAB PLAN
SCALE: 3/16" = 1'-0"



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



HAUNCH DETAIL
SCALE: 1" = 1'-0"

FINISHED GRADE ELEVATIONS				
LOCATION	END OF APPR. SLAB 1	℄ BRG. ABUT. 1	℄ BRG. ABUT. 2	END OF APPR. SLAB 2
GUTTERLINE LEFT	62.854	62.773	62.165	62.084
PAG	62.754	62.673	62.065	61.984
GUTTERLINE RIGHT	62.654	62.573	61.965	61.884

FINISHED DECK ELEVATIONS											
GIRDER	℄ BRG. ABUT. 1	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	0.6 L	0.7 L	0.8 L	0.9 L	℄ BRG. ABUT 2
1	62.523	62.462	62.401	62.341	62.280	62.219	62.158	62.098	62.037	61.976	61.915
2	62.456	62.396	62.335	62.274	62.213	62.153	62.092	62.031	61.970	61.910	61.849
3	62.390	62.329	62.268	62.207	62.147	62.086	62.025	61.964	61.904	61.843	61.782
4	62.323	62.262	62.201	62.141	62.080	62.019	61.958	61.898	61.837	61.776	61.715

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

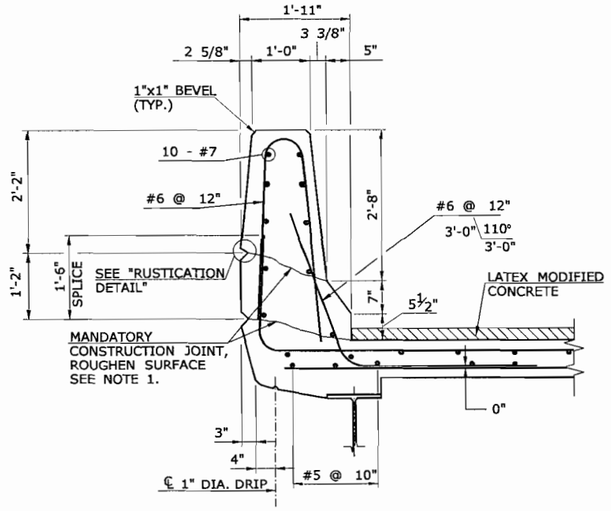
SIGNATURE/BLOCK: Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

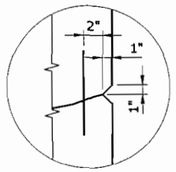
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: SLAB PLAN

PROJECT NO. 093-H052
DRAWING NO. S-13
SHEET NO. 15.02.013



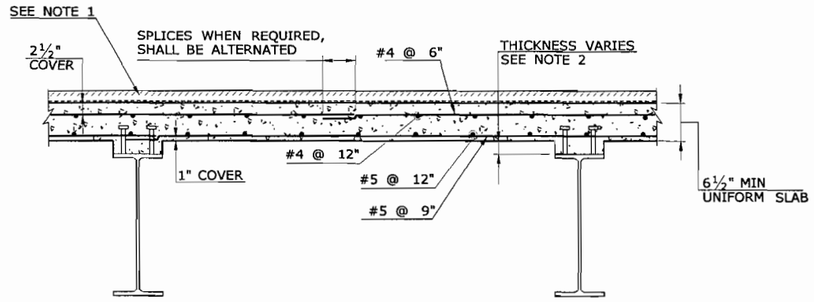


RUSTICATION DETAIL

NOTES:
1. CONCRETE ABOVE THIS LINE TO BE POURED AFTER THE CONCRETE IN THE DECK SLAB HAS REACHED A STRENGTH OF f'c= 3.5 ksi.

2. LONGITUDINAL REINFORCEMENT SHALL BE CONTINUOUS WITH MINIMUM LAP SPLICES OF 3'-0".

PARAPET SECTION
SCALE: ¾" = 1'-0"

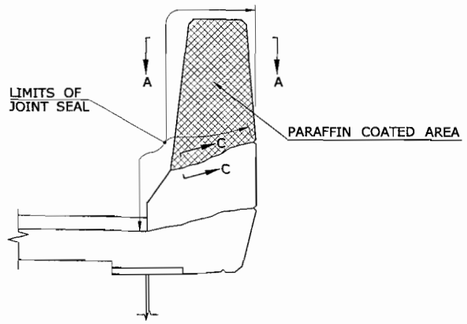


NOTE:

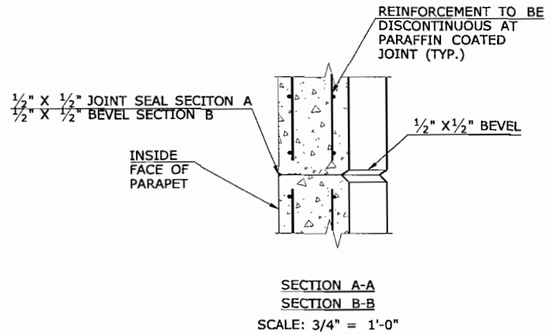
1. 3" LATEX MODIFIED CONCRETE.

2. HAUNCH SHALL BE KEPT TO A MINIMUM OF 1" AT CENTER OF SPAN.

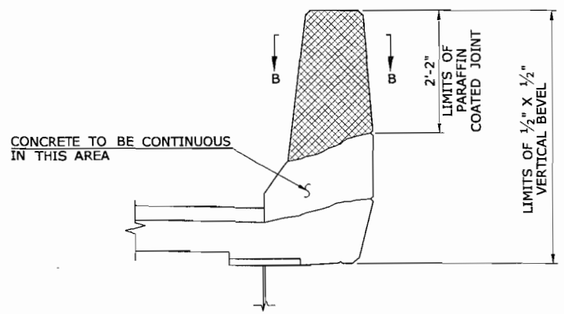
TYPICAL SLAB SECTION
SCALE: ¾" = 1'-0"



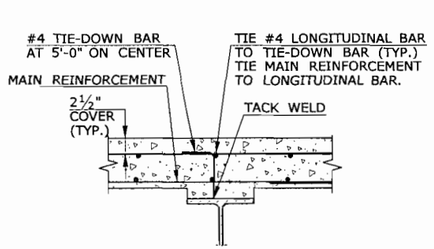
NEGATIVE MOMENT REGION
SCALE: 3/4" = 1'-0"



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



POSITIVE MOMENT REGION
SCALE: ¾" = 1'-0"



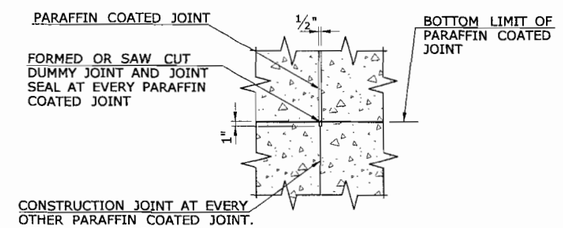
NOTES:

1. TIE-DOWN BARS DO NOT EXCLUDE THE USE OF CHAIRS FOR SUPPORTING THE REINFORCEMENT MAT.

2. THE COST OF FURNISHING AND PLACING TIE-DOWN BARS TO BE INCLUDED IN THE CONTRACT ITEM "DEFORMED STEEL BARS."

3. TIE-DOWN BARS AND LONGITUDINAL BARS SHALL CLEAR SHEAR CONNECTORS.

TIE-DOWN FOR SLAB REINFORCEMENT
SCALE: 1" = 1'-0"



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

PARAFFIN COATED JOINTS
SCALE: 3/4" = 1'-0"

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/28/2010

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

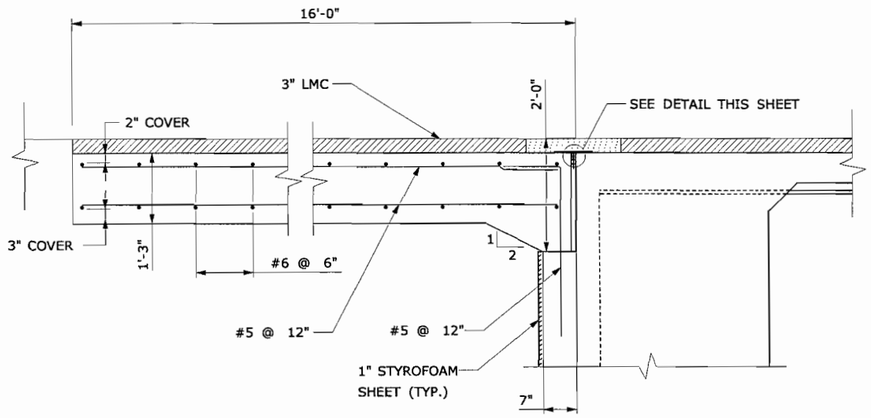
SIGNATURE/BLOCK: MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

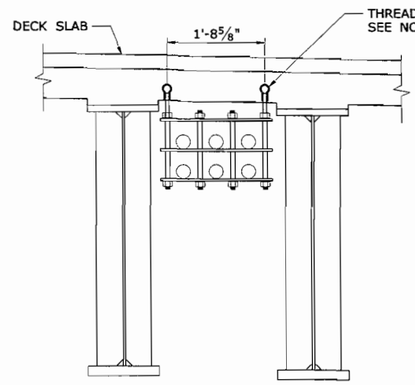
DRAWING TITLE: SLAB DETAILS

PROJECT NO. 093-H052
DRAWING NO. S-14
SHEET NO. 15.02.014



APPROACH SLAB DETAIL

SCALE: $\frac{3}{4}$"=1'-0"

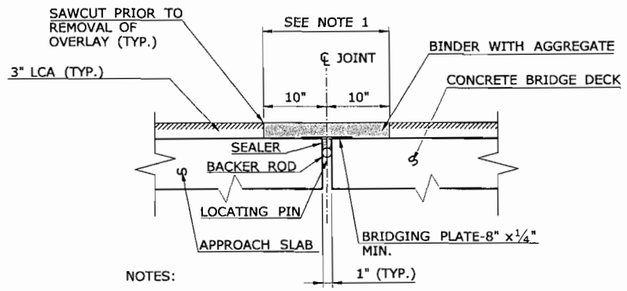


CONDUIT SUPPORT

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

UTILITY SUPPORT NOTES:

1. THREADED INSERTS FOR UTILITY SHALL BE INCLUDED FOR PAYMENT IN ITEM "CLASS 'F' CONCRETE." INSERT SHOWN IS DAYTON SUPERIOR LOOP INSERT FOR $\frac{3}{4}$" - 10NC BOLT. CONTRACTOR MAY SUBSTITUTE APPROVED EQUAL.
2. UTILITY SUPPORT FOR ELECTRICAL AND TELEPHONE CONDUITS TO BE PROVIDED BY CL&P.
3. SEE FRAMING PLAN, DRAWING NO. S-10 FOR SPACING OF INSERTS IN DECK SLAB.

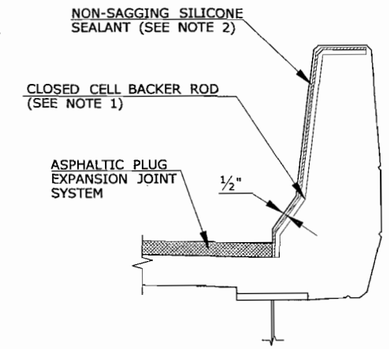


NOTES:

1. INSTALL 20" WIDE BOND BREAKER OVER JOINT. CAST LATEX MODIFIED CONCRETE (LMC) OVERLAY FORM END TO END OF APPROACH SLABS. CUT OUT LMC OVER JOINT AND REMOVE BOND BREAKER. INSTALL ASPHALTIC PLUG EXPANSION JOINT SYSTEM. TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM." (SEE SPECIAL PROVISIONS)

ASPHALTIC PLUG EXPANSION JOINT SYSTEM

SCALE: 1"=1'-0"

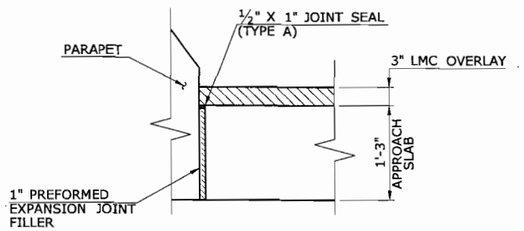


NOTES:

1. THE CLOSED CELL BACKER ROD SHALL BE PLACED A MINIMUM OF 2" FROM THE OUTSIDE FACE OF PARAPETS.
2. THE NON-SAGGING SILICONE SEALANT SHALL BE PLACED ON THE BACKER ROD ½" THICK. AT THE GUTTER, THE SILICONE SEALANT SHALL BE PLACED FLUSH WITH THE OUTSIDE FACE OF CONCRETE.
3. PRIOR TO INSTALLING THE SILICONE SEALANT, CLEAN JOINTS SIDES BY SANDBLASTING. THIS WORK SHALL BE PAID FOR UNDER THE ITEM "ASPHALTIC EXPANSION JOINT SYSTEM." (SEE SPECIAL PROVISIONS)

ASPHALTIC PLUG EXPANSION JOINT TREATMENT AT PARAPETS

SCALE: $\frac{3}{4}$"=1'-0"



GUTTERLINE DETAIL

SCALE: 1"=1'-0"

AMTRAK ACCESS ROAD OVER TROUT BROOK - 093-H052-15-02

REV.| DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/28/2010

DESIGNER/DRAFTER: LSD

CHECKED BY: KAT

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

SIGNATURE/ BLOCK:
Baker
MICHAEL BAKER ENGINEERING, INC.

APPROVED BY: DATE:

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

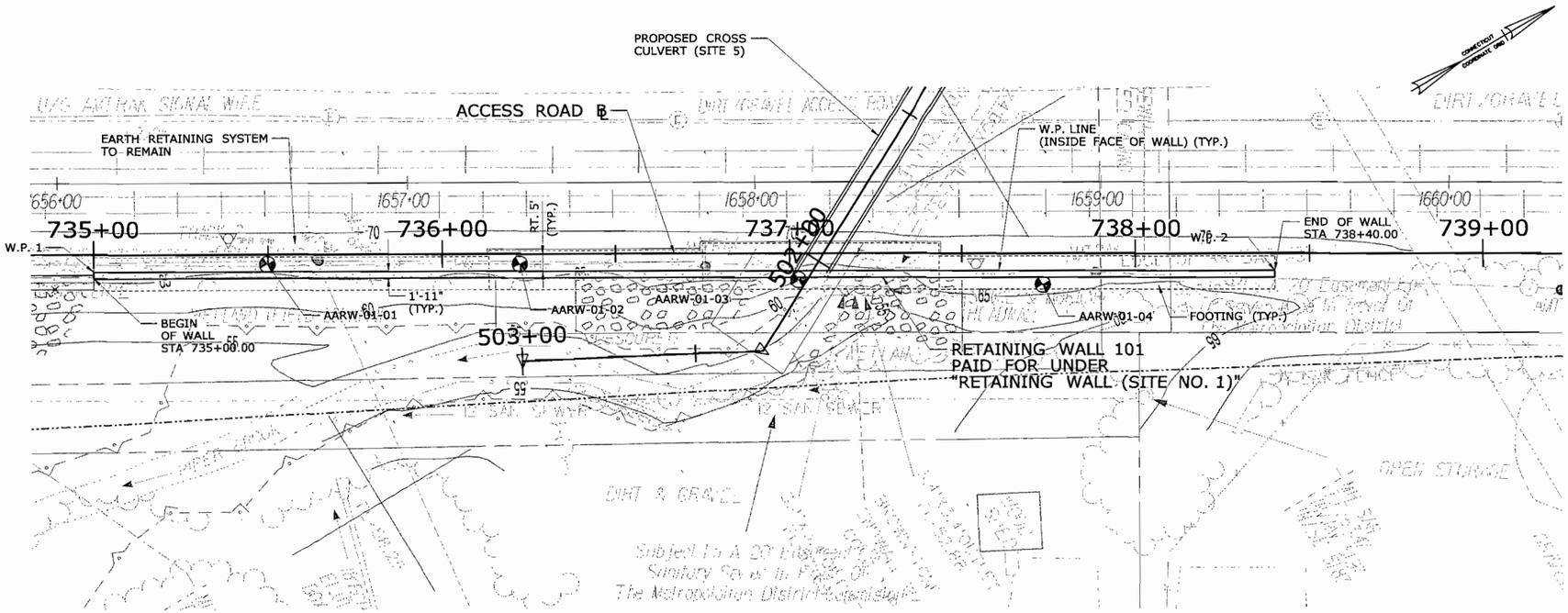
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: APPROACH SLAB DETAILS

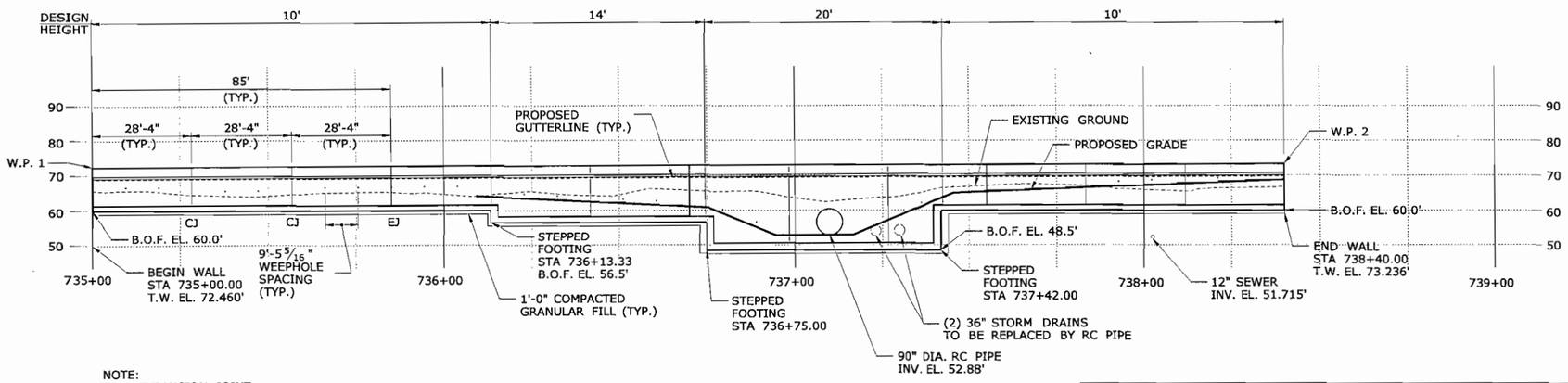
PROJECT NO. 093-H052

DRAWING NO. S-15

SHEET NO. 15.02.015



PLAN
SCALE: 1" = 20'



NOTE:
EJ = EXPANSION JOINT
CJ = CONSTRUCTION JOINT
⊘ = BORING LOCATION
B.O.F. = BOTTOM OF FOOTING
FOR WALL DETAILS SEE SHEET NO. 15.10.001.
FOR BORING LOGS SEE HIGHWAY PLANS DRAWING NO. BOR-14 TO 15.

ELEVATION
SCALE: 1" = 20'

GENERAL NOTES:

SPECIFICATIONS: Connecticut Department of Transportation Form 816 (2004), Supplements dated January 2010, and Special Provisions.

DESIGN SPECIFICATIONS: AASHTO Load and Resistance Factor Design Specification (AASHTO 2004) with interim Specifications up to and including 2008, as supplemented by the Connecticut Department of Transportation Bridge Design Manual (2003) with revisions dated March 2009.

ALLOWABLE DESIGN STRESSES:

Class "A" Concrete — Based on f'c = 3000 psi.

Reinforcement (ASTM A615 Grade 60) — Fy = 60,000 psi

FOUNDATION PRESSURES: The various Limit State Load Combinations noted on the substructure Plan Sheets refer to the Load Combinations and Load Factors as given in the AASHTO Standard Specifications for Highway Bridges.

SOILS INFORMATION:
Allowable Soil Bearing Pressure: 5,000 psf

DIMENSIONS: All dimensions shown on the plans are in feet and inches unless noted otherwise. All elevations are given in feet. When elevations are given to less than three decimal places, the omitted digits shall be assumed to be zeros.

CLASS "A" CONCRETE: Class "A" concrete shall be used throughout.

JOINT SEAL: See Special Provisions.

EXPOSED EDGES: Exposed edges of concrete shall be beveled 1" x 1" unless dimensioned otherwise.

CONCRETE COVER: All reinforcement shall have 2 inch clear cover unless dimensioned otherwise.

REINFORCEMENT: All reinforcement shall be ASTM A615 Grade 60.

PREFORMED EXPANSION JOINT FILLER: The cost of furnishing and installing Preformed Expansion Joint Filler shall be included in the cost of the item "Class 'A' Concrete."

CONSTRUCTION JOINTS: Construction joints, other than those shown on the plans, will not be permitted without the prior approval of the Engineer.

Note:
The contractor may not consider proprietary walls for Retaining Wall 101.

TABLE OF COORDINATES

WORKING POINT	STATION	OFFSET (RIGHT)	COORDINATE NORTHING	COORDINATE EASTING	TOP OF WALL ELEVATION
1	735+00.00	5.0'	822163.568	1004100.570	72.460'
	735+50.00	5.0'	822206.557	1004126.103	72.574'
	736+00.00	5.0'	822249.547	1004151.635	72.688'
	736+50.00	5.0'	822292.536	1004177.168	72.802'
	737+00.00	5.0'	822335.526	1004202.700	72.917'
	737+50.00	5.0'	822378.515	1004228.233	73.031'
	738+00.00	5.0'	822421.504	1004253.765	73.145'
2	738+40.00	5.0'	822455.896	1004274.191	73.236'

MAXIMUM DESIGN FOUNDATION PRESSURE

LIMIT STATE	MAXIMUM DESIGN FOUNDATION PRESSURE
STRENGTH I	3.65 KSF

RETAINING WALL QUANTITIES

ITEM	UNIT	QUANTITY
RETAINING WALL (SITE NO. 1)	L.S.	1

RETAINING WALL 093-H052-15-101

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted:

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

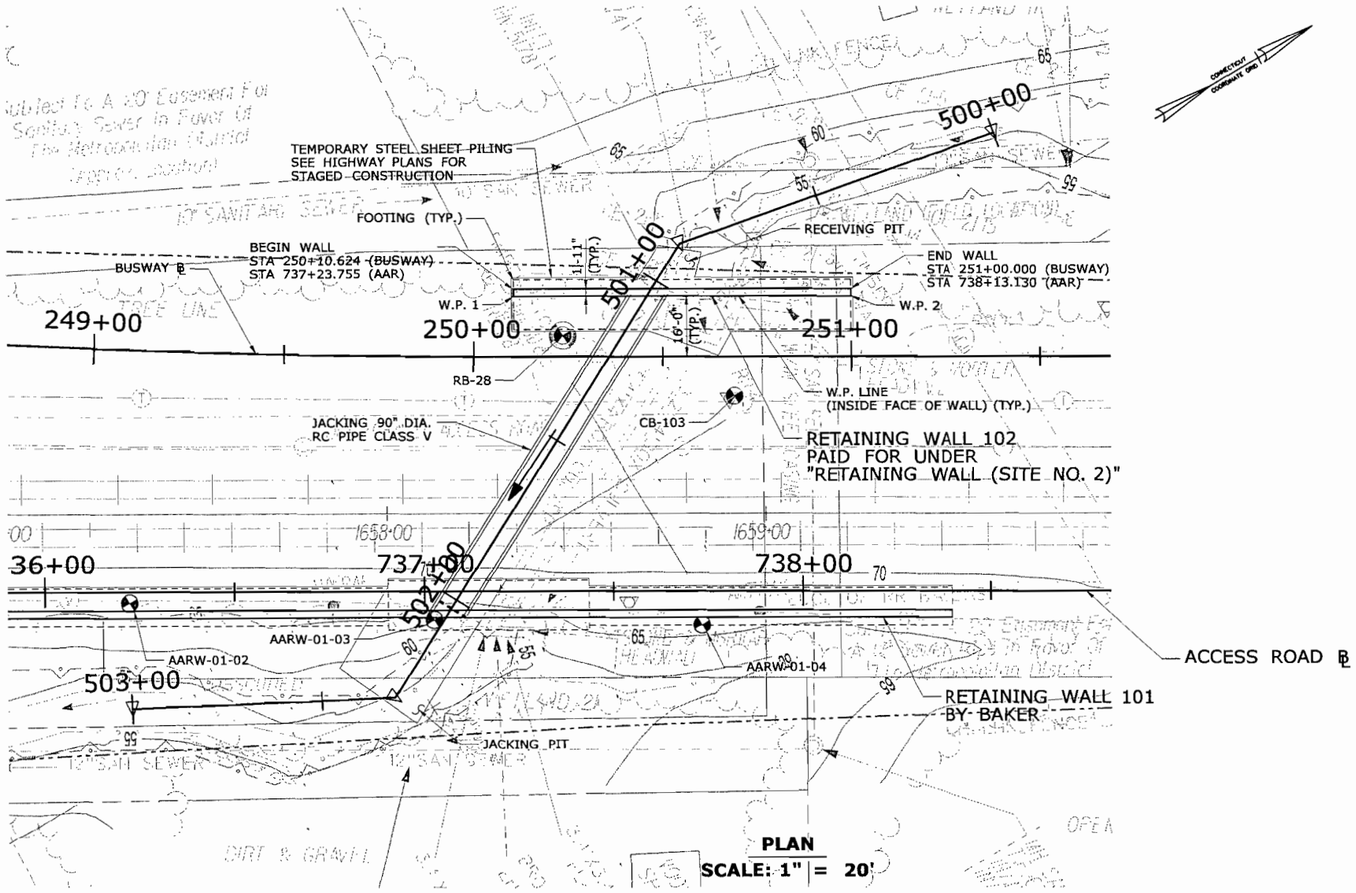
Filename:

SIGNATURE/BLOCK:
Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

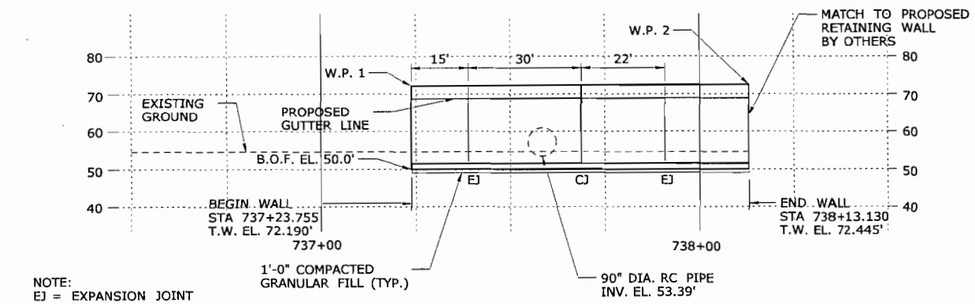
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: RETAINING WALL 101

PROJECT NO. 093-H052
DRAWING NO. RW-01
SHEET NO. 15.04.001



PLAN
SCALE: 1" = 20'



NOTE:
EJ = EXPANSION JOINT
CJ = CONSTRUCTION JOINT
⊕ = BORING LOCATION
B.O.F. = BOTTOM OF FOOTING
FOR WALL DETAILS SEE SHEET NO. 24.

ELEVATION
SCALE: 1" = 20'

GENERAL NOTES:

SPECIFICATIONS: Connecticut Department of Transportation Form 816 (2004), Supplements dated July 2009, and Special Provisions.

DESIGN SPECIFICATIONS: AASHTO Load and Resistance Factor Design Specification (AASHTO 2004) with interim Specifications up to and including 2008, as supplemented by the Connecticut Department of Transportation Bridge Design Manual (2003).

ALLOWABLE DESIGN STRESSES:

Class "A" Concrete Based on f'c = 3000 psi.

Reinforcement
(ASTM A615 Grade 60) Fy = 60,000 psi

FOUNDATION PRESSURES: The various Limit State Load Combinations noted on the substructure Plan Sheets refer to the Load Combinations and Load Factors as given in the AASHTO Standard Specifications for Highway Bridges.

SOILS INFORMATION:
Allowable Soil Bearing Pressure: 5,000 psf

DIMENSIONS: All dimensions shown on the plans are in feet and inches unless noted otherwise. All elevations are given in feet. When elevations are given to less than three decimal places, the omitted digits shall be assumed to be zeros.

CLASS "A" CONCRETE: Class "A" concrete shall be used throughout.

JOINT SEAL: See Special Provisions.

EXPOSED EDGES: Exposed edges of concrete shall be beveled 1" x 1" unless dimensioned otherwise.

CONCRETE COVER: All reinforcement shall have 2 inch clear cover unless dimensioned otherwise.

REINFORCEMENT: All reinforcement shall be ASTM A615 Grade 60.

PREFORMED EXPANSION JOINT FILLER: The cost of furnishing and installing Preformed Expansion Joint Filler shall be included in the cost of the item "Class 'A' Concrete."

CONSTRUCTION JOINTS: Construction joints, other than those shown on the plans, will not be permitted without the prior approval of the Engineer.

Note:
The contractor may not consider proprietary walls for Retaining Wall 102.

TABLE OF COORDINATES

WORKING POINT	STATION	OFFSET (LEFT)	COORDINATE NORTHING	COORDINATE EASTING	TOP OF WALL ELEVATION
1	250+10.624	16.0'	822398.510	1004143.172	72.190'
2	251+00.000	16.0'	822475.365	1004188.787	72.445'

RETAINING WALL QUANTITIES

ITEM	UNIT	QUANTITY
RETAINING WALL (SITE NO. 2)	L.S.	1
JACKING 90" R.C. PIPE CLASS V	L.F.	103

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted:

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename:

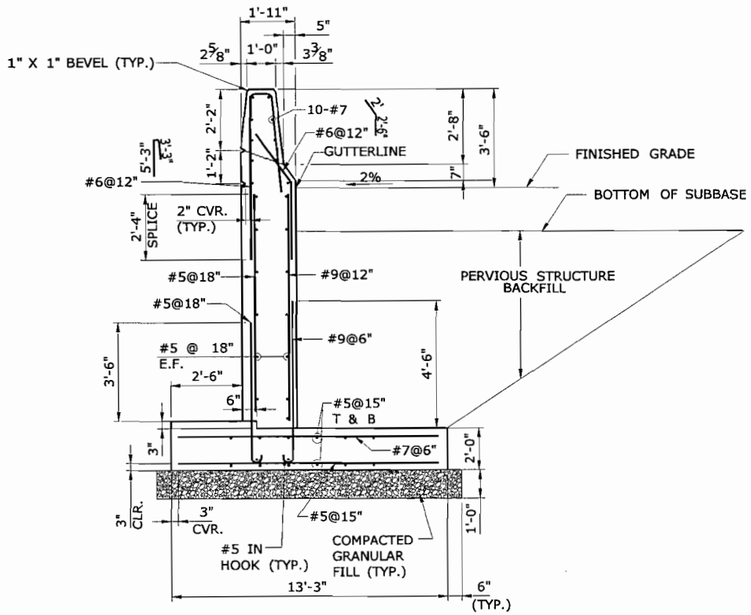
SIGNATURE/ BLOCK:
Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: DATE:
- -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
SITE 5

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

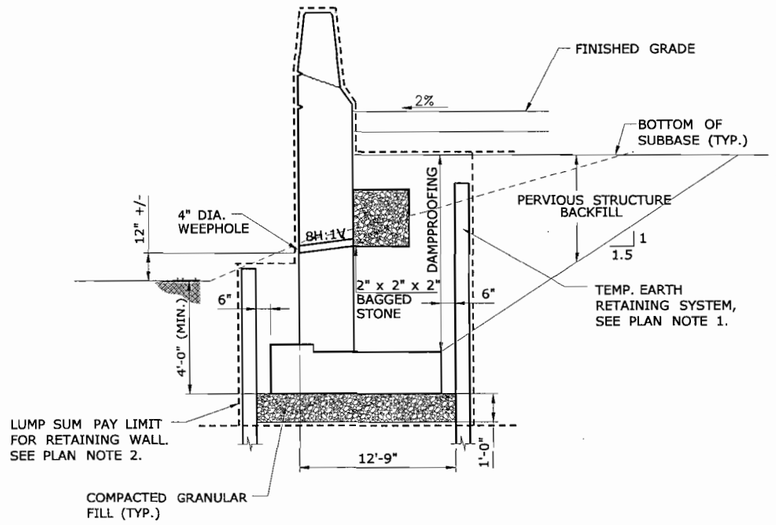
DRAWING TITLE:
RETAINING WALL 102

PROJECT NO. 093-H052
DRAWING NO. RET-01
SHEET NO. 24



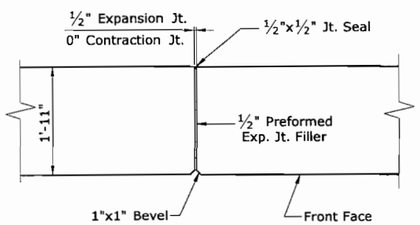
TYPICAL SECTION - CAST IN PLACE WALL

SCALE: N.T.S.



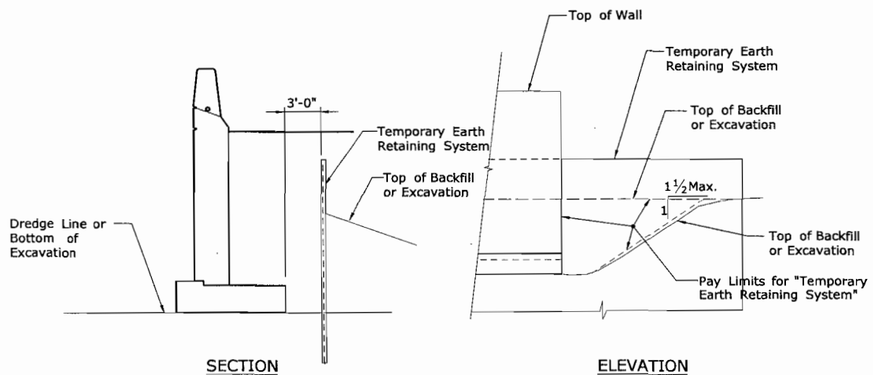
RETAINING WALL NOTES:

1. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING ASSOCIATED WITH THE EARTH RETAINING SYSTEM SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL.
2. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.



JOINT DETAIL

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



NOTES

1. Temporary Earth Retaining System, if ordered left in place shall have an additional payment under the item "Earth Retaining System Left In Place"

TEMPORARY EARTH RETAINING SYSTEM PAY LIMITS

N.T.S.

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted:

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename:

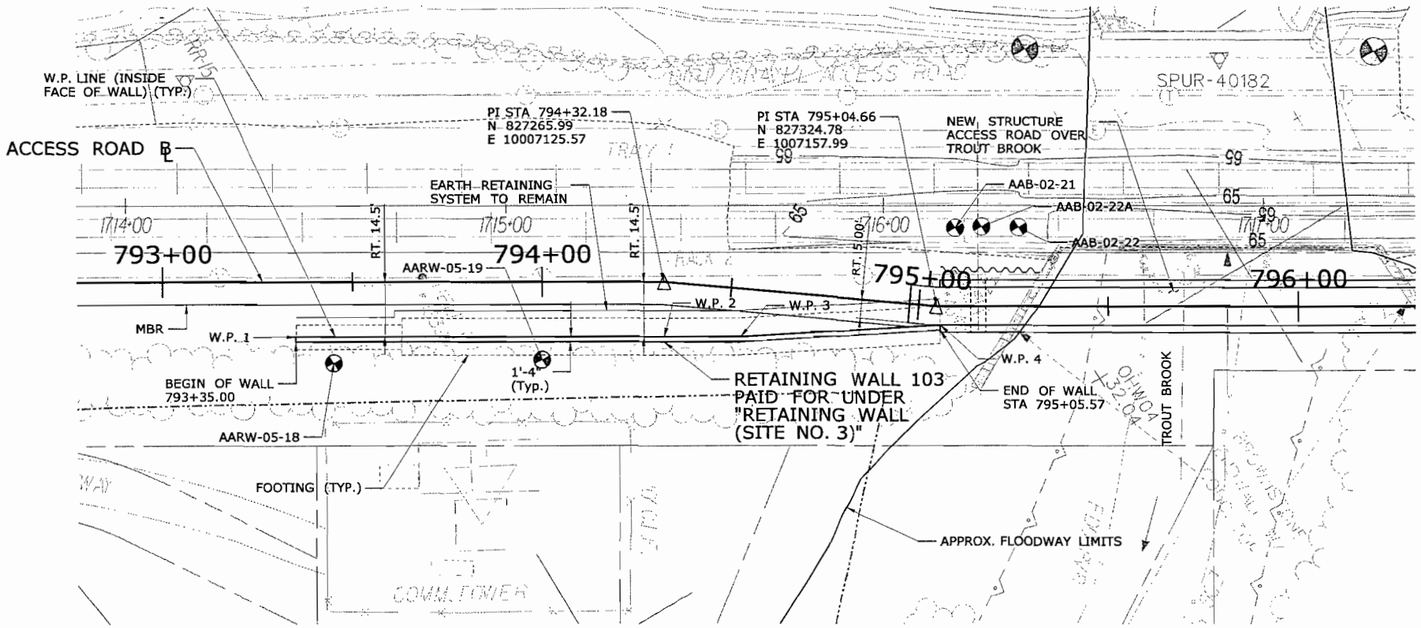
SIGNATURE/BLOCK:
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
SITE 5

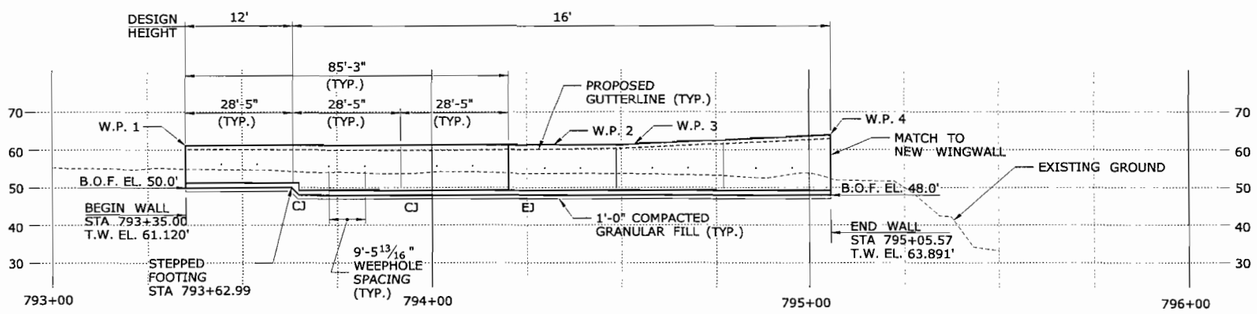
TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
RETAINING WALL DETAILS - 1

PROJECT NO. 093-H052
DRAWING NO. DET-01
SHEET NO. 25



PLAN
SCALE: 1" = 20'



NOTE:
EJ = EXPANSION JOINT
CJ = CONSTRUCTION JOINT
⊘ = BORING LOCATION
B.O.F. = BOTTOM OF FOOTING
FOR WALL DETAILS SEE SHEET NO. 15.10.001.
FOR BORING LOGS SEE HIGHWAY PLANS DRAWING NO. BOR-2, 3, 17 & 18.

ELEVATION
SCALE: 1" = 20'

GENERAL NOTES:

SPECIFICATIONS: Connecticut Department of Transportation Form 816 (2004), Supplements dated January 2010, and Special Provisions.

DESIGN SPECIFICATIONS: AASHTO Load and Resistance Factor Design Specification (AASHTO 2004) with interim Specifications up to and including 2008, as supplemented by the Connecticut Department of Transportation Bridge Design Manual (2003) with revisions dated March 2009.

ALLOWABLE DESIGN STRESSES:

Class "A" Concrete — Based on f'c = 3000 psi.

Reinforcement (ASTM A615 Grade 60) — Fy = 60,000 psi

FOUNDATION PRESSURES: The various Limit State Load Combinations noted on the substructure Plan Sheets refer to the Load Combinations and Load Factors as given in the AASHTO Standard Specifications for Highway Bridges.

SOILS INFORMATION:
Allowable Soil Bearing Pressure: 5,000 psf

DIMENSIONS: All dimensions shown on the plans are in feet and inches unless noted otherwise. All elevations are given in feet. When elevations are given to less than three decimal places, the omitted digits shall be assumed to be zeros.

CLASS "A" CONCRETE: Class "A" concrete shall be used throughout.

JOINT SEAL: See Special Provisions.

EXPOSED EDGES: Exposed edges of concrete shall be beveled 1" x 1" unless dimensioned otherwise.

CONCRETE COVER: All reinforcement shall have 2 inch clear cover unless dimensioned otherwise.

REINFORCEMENT: All reinforcement shall be ASTM A615 Grade 60.

PREFORMED EXPANSION JOINT FILLER: The cost of furnishing and installing Preformed Expansion Joint Filler shall be included in the cost of the item "Class 'A' Concrete."

CONSTRUCTION JOINTS: Construction joints, other than those shown on the plans, will not be permitted without the prior approval of the Engineer.

Note:
The contractor may not consider proprietary walls for Retaining Wall 103.

TABLE OF COORDINATES

WORKING POINT	STATION	OFFSET (RIGHT)	COORDINATE NORTHING	COORDINATE EASTING	TOP OF WALL ELEVATION
1	793+35.00	14.5'	827175.041	1007088.411	61.120'
	793+50.00	14.5'	827187.937	1007096.072	61.148'
	794+00.00	14.5'	827230.925	1007121.607	61.242'
2	794+32.18	14.5'	827258.588	1007138.039	61.302'
	794+50.00	12.97'	827272.861	1007146.517	61.335'
3	794+53.53	12.65'	827275.910	1007166.791	61.498'
	795+00.00	5.82'	827317.587	1007169.982	63.635'
4	795+05.57	5.00'	827323.002	1007172.732	63.891'

MAXIMUM DESIGN FOUNDATION PRESSURE

LIMIT STATE	MAXIMUM DESIGN FOUNDATION PRESSURE
STRENGTH I, III, V	2.81 KSF

RETAINING WALL QUANTITIES

ITEM	UNIT	QUANTITY
RETAINING WALL (SITE NO. 3)	L.S.	1

RETAINING WALL 093-H052-15-103

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted:

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

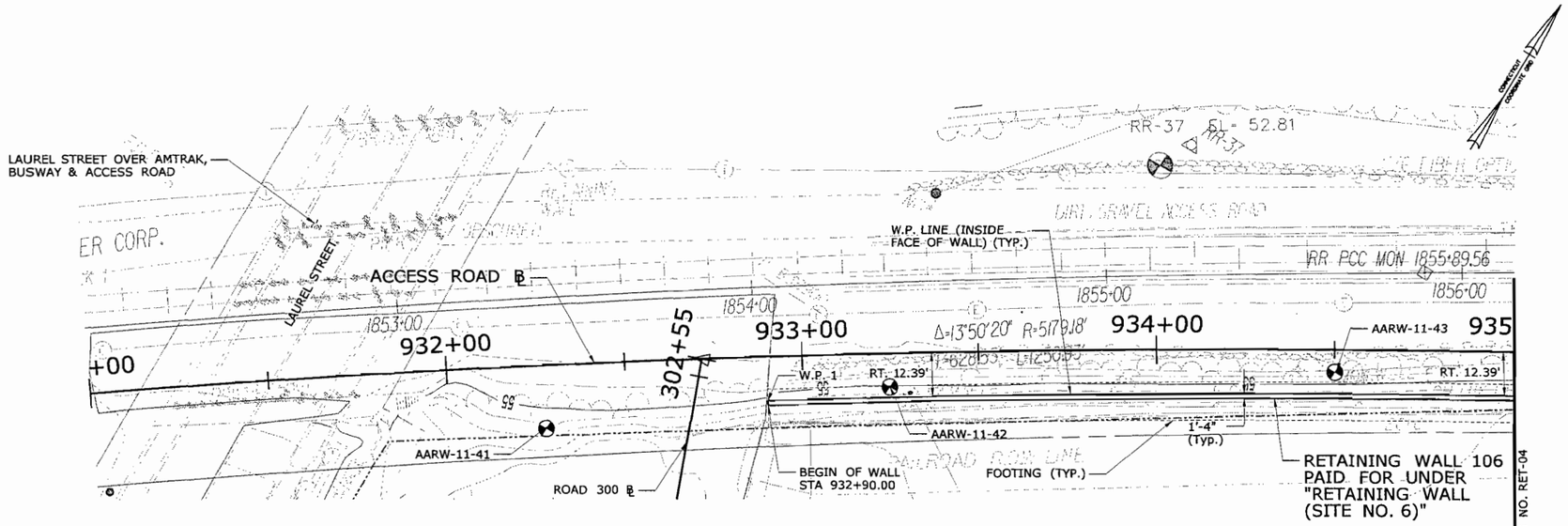
Filename:

SIGNATURE/BLOCK:
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

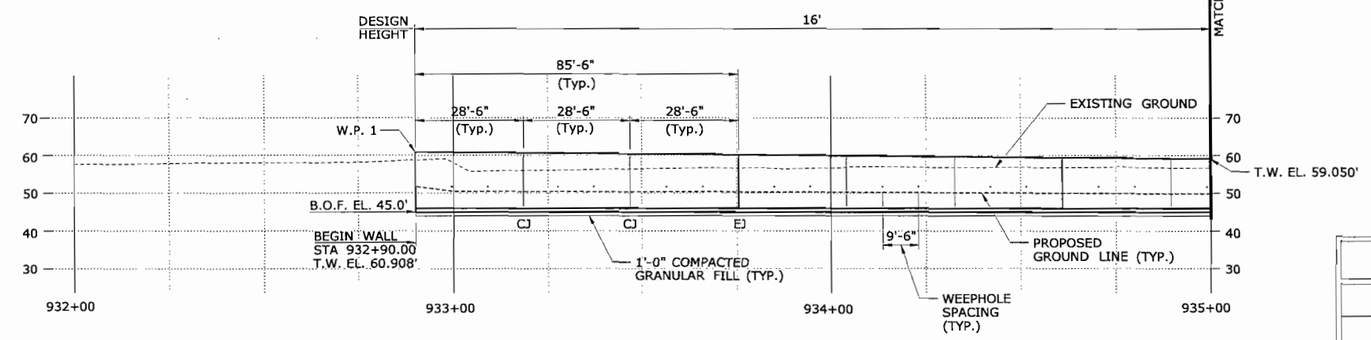
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: RETAINING WALL 103

PROJECT NO. 093-H052
DRAWING NO. RW-01
SHEET NO. 15.06.001



PLAN
SCALE: 1" = 20'



NOTE:
EJ = EXPANSION JOINT
CJ = CONSTRUCTION JOINT
⊘ = BORING LOCATION
B.O.F. = BOTTOM OF FOOTING
FOR WALL DETAILS SEE SHEET NO. 15.10.001.
FOR BORING LOGS SEE HIGHWAY PLANS DRAWING NO. BOR-24.

ELEVATION
SCALE: 1" = 20'

GENERAL NOTES:

SPECIFICATIONS: Connecticut Department of Transportation Form 816 (2004), Supplements dated January 2010, and Special Provisions.

DESIGN SPECIFICATIONS: AASHTO Load and Resistance Factor Design Specification (AASHTO 2004) with Interim Specifications up to and including 2008, as supplemented by the Connecticut Department of Transportation Bridge Design Manual (2003) with revisions dated March 2009.

ALLOWABLE DESIGN STRESSES:

Class "A" Concrete — Based on f'c = 3000 psi.

Reinforcement (ASTM A615 Grade 60) — Fy = 60,000 psi

FOUNDATION PRESSURES: The various Limit State Load Combinations noted on the substructure Plan Sheets refer to the Load Combinations and Load Factors as given in the AASHTO Standard Specifications for Highway Bridges.

SOILS INFORMATION:
Allowable Soil Bearing Pressure: 5,000 psf

DIMENSIONS: All dimensions shown on the plans are in feet and inches unless noted otherwise. All elevations are given in feet. When elevations are given to less than three decimal places, the omitted digits shall be assumed to be zeros.

CLASS "A" CONCRETE: Class "A" concrete shall be used throughout.

JOINT SEAL: See Special Provisions.

EXPOSED EDGES: Exposed edges of concrete shall be beveled 1" x 1" unless dimensioned otherwise.

CONCRETE COVER: All reinforcement shall have 2 inch clear cover unless dimensioned otherwise.

REINFORCEMENT: All reinforcement shall be ASTM A615 Grade 60.

PREFORMED EXPANSION JOINT FILLER: The cost of furnishing and installing Preformed Expansion Joint Filler shall be included in the cost of the item "Class 'A' Concrete."

CONSTRUCTION JOINTS: Construction joints, other than those shown on the plans, will not be permitted without the prior approval of the Engineer.

Note:
The contractor may consider proprietary walls for Retaining Wall 106.

MAXIMUM DESIGN FOUNDATION PRESSURE	
LIMIT STATE	MAXIMUM DESIGN FOUNDATION PRESSURE
STRENGTH I	2.46 KSF

RETAINING WALL QUANTITIES		
ITEM	UNIT	QUANTITY
RETAINING WALL (SITE NO. 6)	L.S.	1

RETAINING WALL 093-H052-15-106

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted:

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

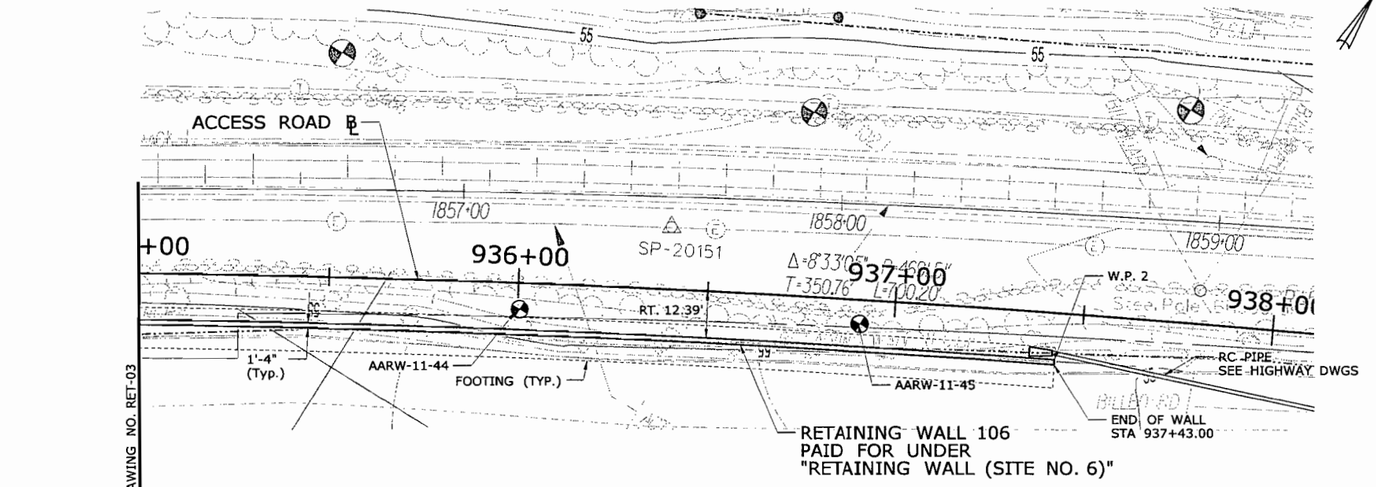
Filename:

SIGNATURE/BLOCK: Baker — MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

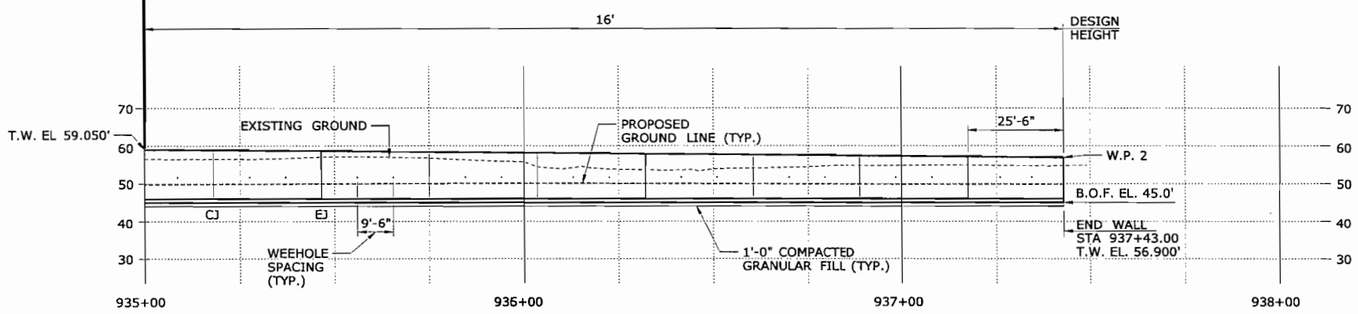
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD
DRAWING TITLE: RETAINING WALL 106

PROJECT NO. 093-H052
DRAWING NO. RW-01
SHEET NO. 15.07.001



PLAN
SCALE: 1" = 20'



NOTE:
EJ = EXPANSION JOINT
CJ = CONSTRUCTION JOINT
⊕ = BORING LOCATION
B.O.F. = BOTTOM OF FOOTING
FOR BORING LOGS SEE HIGHWAY PLANS DRAWING NO. BOR-24 & 25.

ELEVATION
SCALE: 1" = 20'

TABLE OF COORDINATES

WORKING POINT	STATION	OFFSET (RIGHT)	COORDINATE NORTHING	COORDINATE EASTING	TOP OF WALL ELEVATION
1	932+90.00	12.39'	838871.174	1014573.876	60.908'
	933+00.00	12.39'	838876.730	1014582.157	60.820'
	933+50.00	12.39'	838904.227	1014623.747	60.377'
	934+00.00	12.39'	838931.249	1014665.648	59.935'
	934+50.00	12.39'	838957.791	1014707.855	59.492'
	935+00.00	12.39'	838983.850	1014750.361	59.050'
	935+50.00	12.39'	839009.422	1014793.162	58.607'
	936+00.00	12.39'	839034.505	1014836.252	58.165'
	936+50.00	12.39'	839059.095	1014879.625	57.723'
	937+00.00	12.39'	839083.189	1014923.275	57.280'
2	937+43.00	12.39'	839103.511	1014961.031	56.900'

RETAINING WALL 093-H052-15-106

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted:

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename:

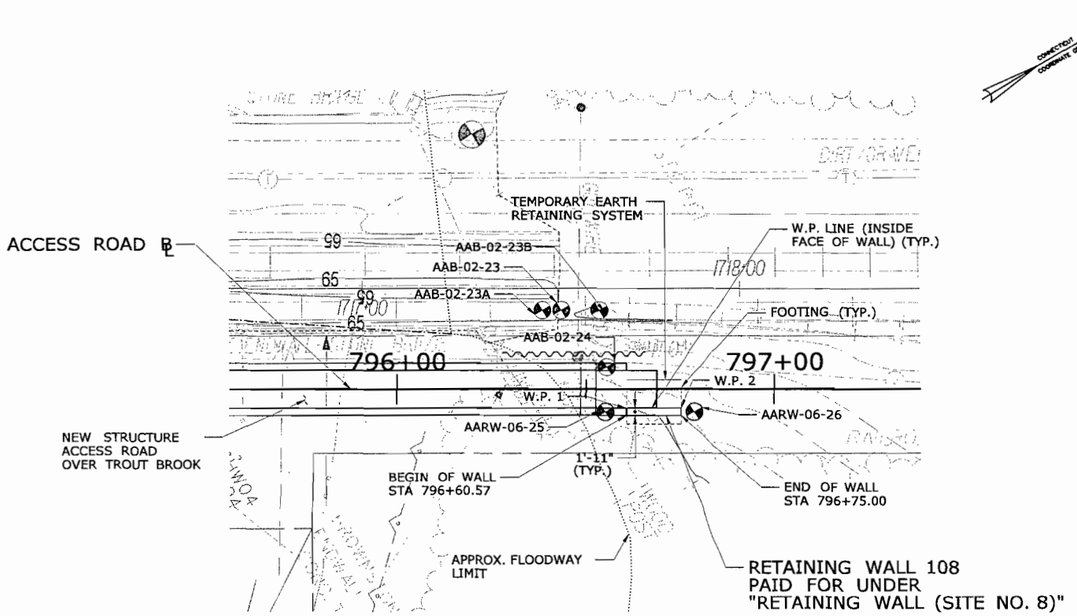
SIGNATURE/BLOCK:
Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

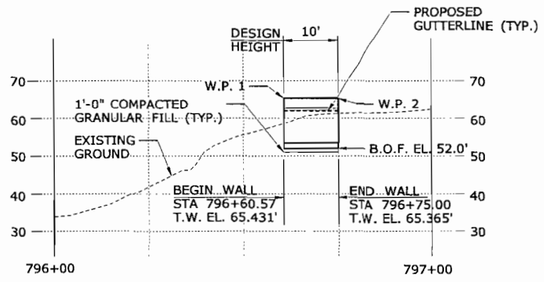
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: RETAINING WALL 106

PROJECT NO. 093-H052
DRAWING NO. RW-02
SHEET NO. 15.07.002



PLAN
SCALE: 1" = 20'



NOTE:
EJ = EXPANSION JOINT
CJ = CONSRUCTION JOINT
⊕ = BORING LOCATION
B.O.F. = BOTTOM OF FOOTING
FOR WALL DETAILS SEE SHEET NO. 15.10.001.
FOR BORING LOGS SEE HIGHWAY PLANS DRAWING NO. BOR-3, 4, 5 & 18.

ELEVATION
SCALE: 1" = 20'

GENERAL NOTES:

SPECIFICATIONS: Connecticut Department of Transportation Form 816 (2004), Supplements dated January 2010, and Special Provisions.

DESIGN SPECIFICATIONS: AASHTO Load and Resistance Factor Design Specification (AASHTO 2004) with interim Specifications up to and including 2008, as supplemented by the Connecticut Department of Transportation Bridge Design Manual (2003) with revisions dated March 2009.

ALLOWABLE DESIGN STRESSES:

Class "A" Concrete — Based on f'c = 3000 psi.

Reinforcement (ASTM A615 Grade 60) — Fy = 60,000 psi

FOUNDATION PRESSURES: The various Limit State Load Combinations noted on the substructure Plan Sheets refer to the Load Combinations and Load Factors as given in the AASHTO Standard Specifications for Highway Bridges.

SOILS INFORMATION:
Allowable Soil Bearing Pressure: 5,000 psf

DIMENSIONS: All dimensions shown on the plans are in feet and inches unless noted otherwise. All elevations are given in feet. When elevations are given to less than three decimal places, the omitted digits shall be assumed to be zeros.

CLASS "A" CONCRETE: Class "A" concrete shall be used throughout.

JOINT SEAL: See Special Provisions.

EXPOSED EDGES: Exposed edges of concrete shall be beveled 1" x 1" unless dimensioned otherwise.

CONCRETE COVER: All reinforcement shall have 2 inch clear cover unless dimensioned otherwise.

REINFORCEMENT: All reinforcement shall be ASTM A615 Grade 60.

PREFORMED EXPANSION JOINT FILLER: The cost of furnishing and installing Preformed Expansion Joint Filler shall be included in the cost of the item "Class 'A' Concrete."

CONSTRUCTION JOINTS: Construction joints, other than those shown on the plans, will not be permitted without the prior approval of the Engineer.

Note:
The contractor may not consider proprietary walls for Retaining Wall 108.

TABLE OF COORDINATES

WORKING POINT	STATION	OFFSET (RIGHT)	COORDINATE NORTHING	COORDINATE EASTING	TOP OF WALL ELEVATION
1	796+60.57	5.0'	827463.048	1007259.265	65.431'
2	796+75.00	5.0'	827468.653	1007259.309	65.365'

RETAINING WALL QUANTITIES

ITEM	UNIT	QUANTITY
RETAINING WALL (SITE NO. 8)	L.S.	1

MAXIMUM DESIGN FOUNDATION PRESSURE

LIMIT STATE	MAXIMUM DESIGN FOUNDATION PRESSURE
STRENGTH I	1.86 KSF

RETAINING WALL 093-H052-15-108

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted: 7/28/2010

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: $FILE$

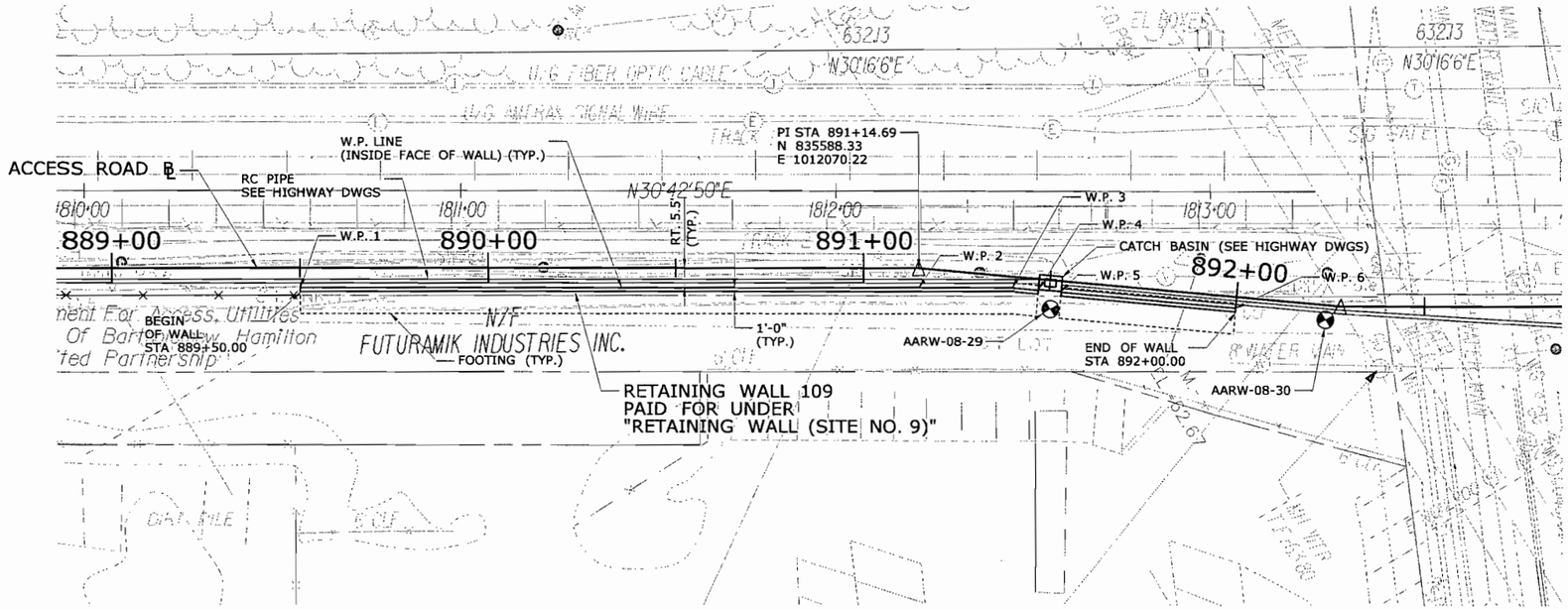
SIGNATURE/BLOCK: Baker — MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: — DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

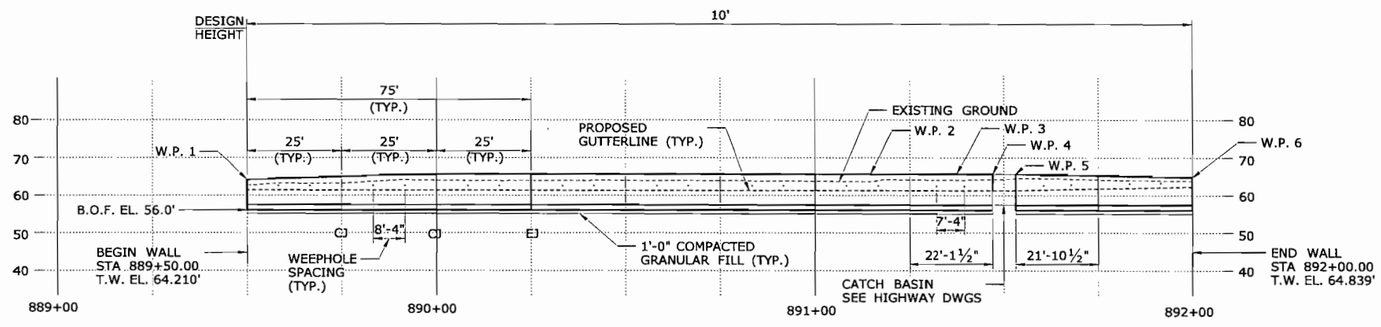
TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE: RETAINING WALL 108

PROJECT NO. 093-H052
DRAWING NO. RW-01
SHEET NO. 15.08.001



PLAN
SCALE: 1" = 20'



NOTE:
EJ = EXPANSION JOINT
CJ = CONSTRUCTION JOINT
⊗ = BORING LOCATION
B.O.F. = BOTTOM OF FOOTING
FOR WALL DETAILS SEE SHEET NO. 15.10.001.
FOR BORING LOGS SEE HIGHWAY PLANS DRAWING NO. BOR-19 & 20.

ELEVATION
SCALE: 1" = 20'

GENERAL NOTES:

SPECIFICATIONS: Connecticut Department of Transportation Form 816 (2004), Supplements dated January 2010, and Special Provisions.

DESIGN SPECIFICATIONS: AASHTO Load and Resistance Factor Design Specification (AASHTO 2004) with interim Specifications up to and including 2008, as supplemented by the Connecticut Department of Transportation Bridge Design Manual (2003) with revisions dated March 2009.

ALLOWABLE DESIGN STRESSES:

Class "A" Concrete — Based on f'c = 3000 psi.

Reinforcement (ASTM A615 Grade 60) — Fy = 60,000 psi

FOUNDATION PRESSURES: The various Limit State Load Combinations noted on the substructure Plan Sheets refer to the Load Combinations and Load Factors as given in the AASHTO Standard Specifications for Highway Bridges.

SOILS INFORMATION:
Allowable Soil Bearing Pressure: 3,000 psf

DIMENSIONS: All dimensions shown on the plans are in feet and inches unless noted otherwise. All elevations are given in feet. When elevations are given to less than three decimal places, the omitted digits shall be assumed to be zeros.

CLASS "A" CONCRETE: Class "A" concrete shall be used throughout.

JOINT SEAL: See Special Provisions.

EXPOSED EDGES: Exposed edges of concrete shall be beveled 1" x 1" unless dimensioned otherwise.

CONCRETE COVER: All reinforcement shall have 2 inch clear cover unless dimensioned otherwise.

REINFORCEMENT: All reinforcement shall be ASTM A615 Grade 60.

PREFORMED EXPANSION JOINT FILLER: The cost of furnishing and installing Preformed Expansion Joint Filler shall be included in the cost of the item "Class 'A' Concrete."

CONSTRUCTION JOINTS: Construction joints, other than those shown on the plans, will not be permitted without the prior approval of the Engineer.

Note:
The contractor may consider proprietary walls for Retaining Wall 109.

TABLE OF COORDINATES

WORKING POINT	STATION	OFFSET (RIGHT)	COORDINATE NORTHING	COORDINATE EASTING	TOP OF WALL ELEVATION
1	889+50.00	5.5'	835444.121	1011990.723	64.210'
	890+00.00	5.5'	835487.030	1012016.193	65.681'
	890+50.00	5.5'	835529.993	1012041.770	65.681'
	891+00.00	5.5'	835573.021	1012067.236	65.681'
2	891+14.69	5.0'	835585.651	1012074.733	65.681'
3	891+40.23	3.0'	835607.298	1012087.583	65.681'
4	891+47.12	3.0'	835612.898	1012091.619	65.681'
	891+50.00	3.0'	835615.226	1012093.297	65.681'
5	891+53.12	3.0'	835617.765	1012095.127	65.681'
6	892+00.00	3.0'	835655.788	1012122.532	64.839'

MAXIMUM DESIGN FOUNDATION PRESSURE

LIMIT STATE	MAXIMUM DESIGN FOUNDATION PRESSURE
STRENGTH I, III, V	1.34 KSF

RETAINING WALL QUANTITIES

ITEM	UNIT	QUANTITY
RETAINING WALL (SITE NO. 9)	L.S.	1

RETAINING WALL 093-H052-15-109

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename:

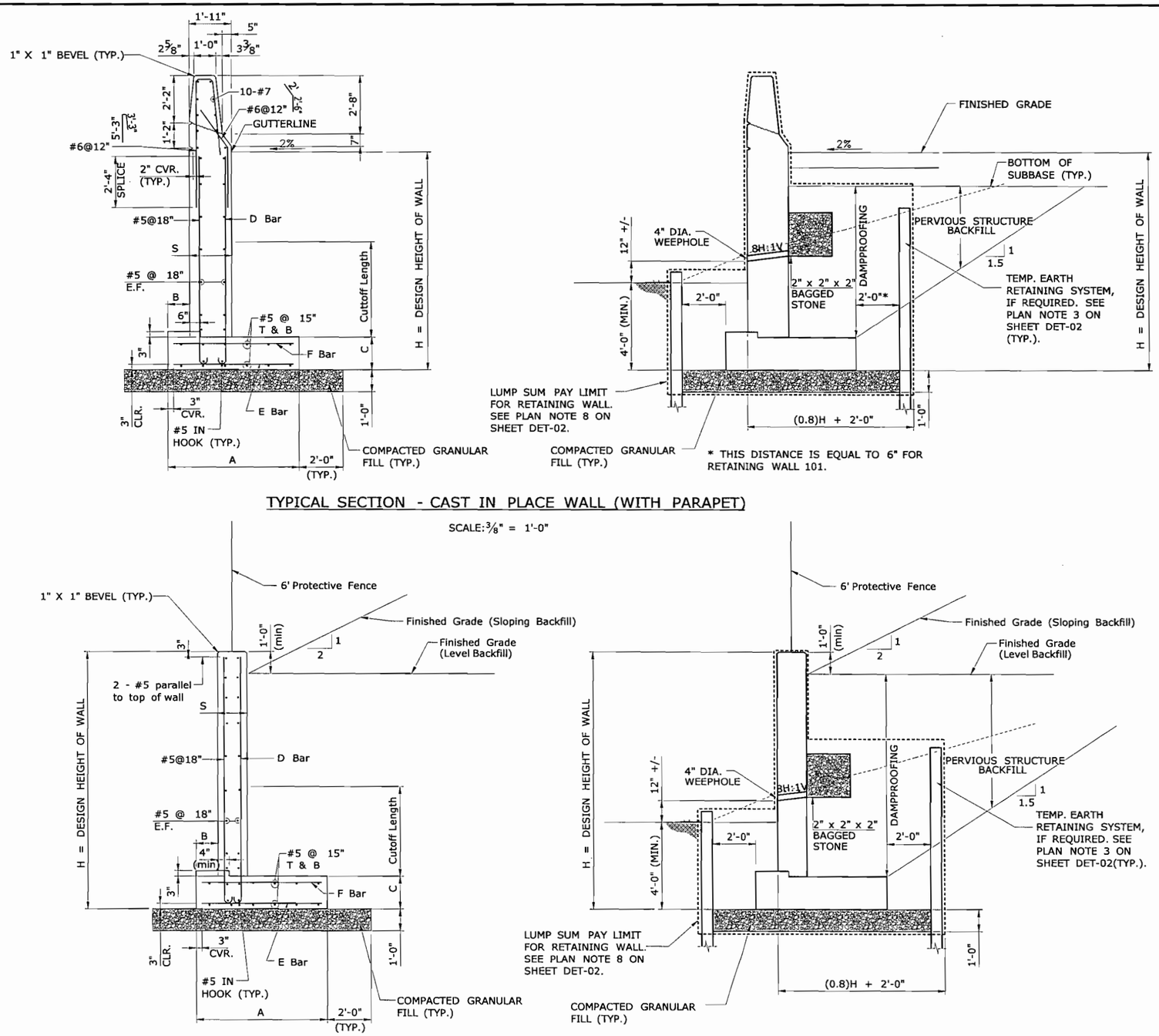
SIGNATURE/BLOCK:
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: -
DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
RETAINING WALL 109

PROJECT NO. 093-H052
DRAWING NO. RW-01
SHEET NO. 15.09.001



TYPICAL SECTION - CAST IN PLACE WALL (WITH PARAPET)

SCALE: 3/8" = 1'-0"

TYPICAL SECTION - CAST IN PLACE WALL (WITHOUT PARAPET)

SCALE: 3/8" = 1'-0"

Cast in Place Wall Details									
Wall	Design Height (ft)	Wall Type*	A (ft)	B (ft)	C (ft)	S (ft)	D Bar	E Bar	F Bar	Cuttoff Length** (ft)
101	10	1	9'-6"	3'-5"	1'-6"	1'-11"	#5@6"	#4@12"	#6@12"	-
	14	1	11'-3"	3'-5"	1'-6"	1'-11"	#6@6"	#6@12"	#6@12"	6'-6"
	20	1	13'-3"	3'-5"	2'-0"	1'-11"	#9@6"	#7@12"	#7@9"	5'-6"
103	12	3	6'-6"	2'-0"	1'-6"	1'-4"	#5@12"	#4@12"	#4@12"	-
	16	3	9'-9"	3'-6"	1'-6"	1'-4"	#6@6"	#6@12"	#6@12"	3'-0"
106	16	2	10'-9"	3'-3"	1'-6"	1'-4"	#7@6"	#5@12"	#5@6"	3'-6"
108	10	1	9'-3"	2'-4"	1'-6"	1'-11"	#5@6"	#4@12"	#6@12	-
109	10	2	8'-3"	1'-4"	1'-6"	1'-0"	#5@9"	#4@12"	#4@12"	-

*WALL TYPE
1 - CAST IN PLACE WALL WITH PARAPET
2 - CAST IN PLACE WALL WITHOUT PARAPET, LEVEL BACKFILL
3 - CAST IN PLACE WALL WITHOUT PARAPET, SLOPING BACKFILL

**CUTOFF LENGTH IS THE LENGTH AT WHICH EVERY OTHER D BAR MAY BE CUTOFF.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted:

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename:

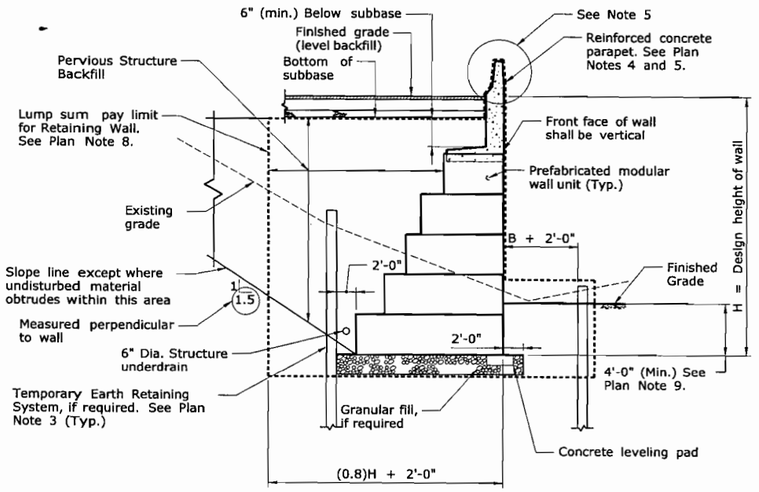
SIGNATURE/BLOCK: Baker — MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

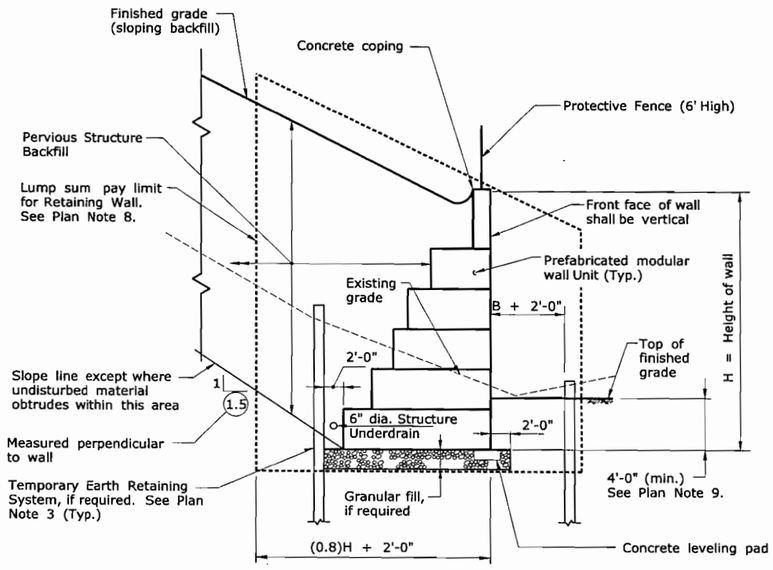
PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN: NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
RETAINING WALL DETAILS - 1

PROJECT NO. 093-H052
DRAWING NO. RW-01
SHEET NO. 15.10.001





TYPICAL SECTION - PREFABRICATED MODULAR WALL

SCALE: N.T.S.

RETAINING WALL NOTES:

1. THE CONTRACTOR SHALL SELECT, DESIGN, (FOR PROPRIETARY WALLS ONLY) AND CONSTRUCT ONE OF THE FOLLWOING WALL OPTIONS IN ACCORDANCE WITH THE SPECIAL PROVISION "RETAINING WALL (SITE 1-9)".

   PREFABRICATED WALL:

   1. COUBLEWAL-STANDARD MODULE
      DOUBLEWAL CORPORATION
      7 WEST STREET
      PLAINVILLE, CT 06062
      (860) 793-0295

   2. T-WALL RETAINING WALL SYSTEM
      THE NEEL COMPANY
      8328-D TRATFORD LANE
      SPRINGFIELD, VA 22152
      (703) 913-7858

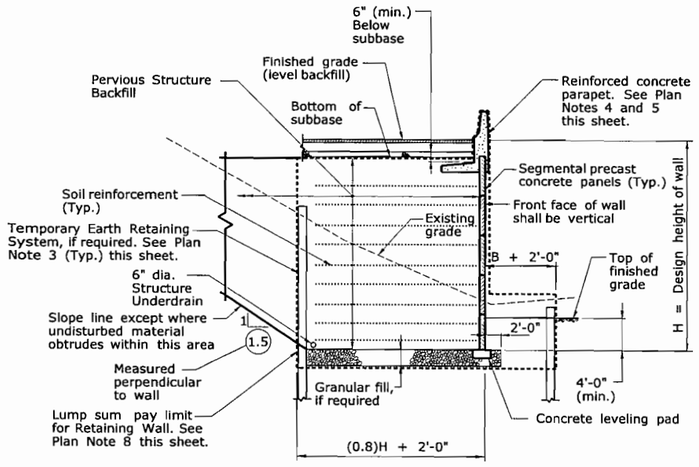
   MECHANICALLY STABILIZED EARTH (MSE) WALLS:

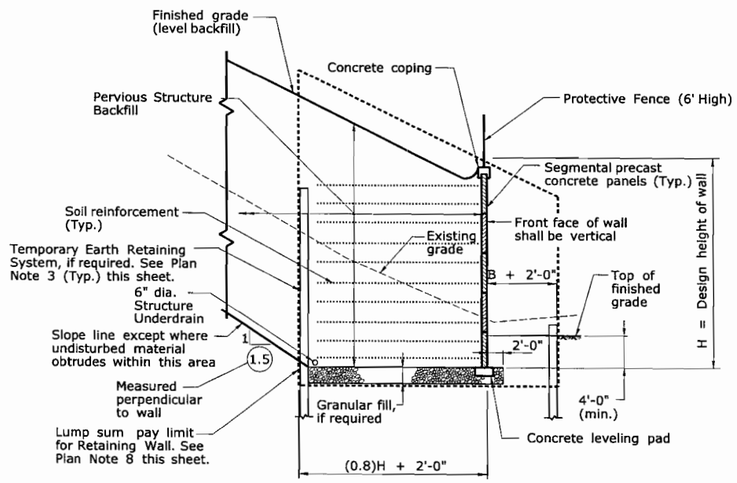
   1. REINFORCED EARTH WALLS
      THE REINFORCED EARTH COMPANY
      133 PARK STREET
      NORTH READING, MA 01864
      (978) 664-2830

   2. ISOGRID RETAINING WALL SYSTEM
      THE NEEL COMPANY
      8328-D TRATFORD LANE
      SPRINGFIELD, VA 22152
      (703) 913-7858

   3. RETAINED EARTH
      THE REINFORCED EARTH COMPANY
      1372 OLDBRIDGE ROAD, SUITE 101
      WOODBRIDGE, VA 22192
      (703) 499-9818

2. THE MAXIMUM ALLOWABLE BEARING PRESSURE = 2.5 TSF.
3. TEMPORARY EARCTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING ASSOCIATED WITH THE EARTH RETAINING SYSTEM SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL.
4. DETAILS SHOWN ON THIS SHEET ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHALL MODIFY EACH SECTION FOR EACH SPECIFIC SITE.
5. THE DETAILING AND REINFORCEMENT OF THE PARAPET SECTION ABOVE THE GUTTERLINE SHALL BE AS SHOWN FOR THE CAST-IN-PLACE REINFORCED CONCRETE WALL SECTION OR AS DETAILED ELSEWHERE ON THE PLANS.
6. REINFORCING TO HAVE 2" COVER EXCEPT WHERE SHOWN OTHERWISE.
7. ALL DIMENSIONS ARE SPECIFIED WITH THE APPLICABLE UNITS OF MEASUREMENT.
8. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.
9. WHERE A REINFORCED CONCRETE FOOTING IS PROVIDED UNDER THE FRONT AND BACK OF THE MODULE, THE EMBEDMENT DEPTH SHALL BE MEASURED TO THE BOTTOM OF THE FOOTINGS.





TYPICAL SECTION - MECHANICALLY STABILIZED EARTH WALL

SCALE: N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted:

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename:

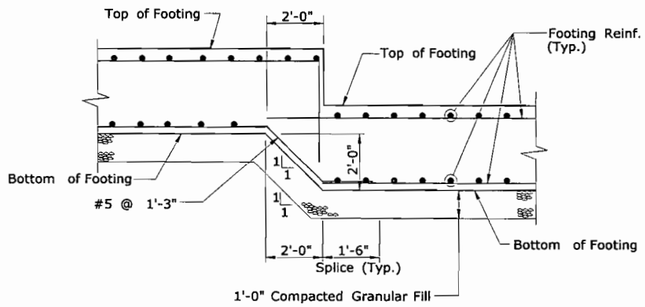
SIGNATURE/ BLOCK:
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: - DATE: -

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

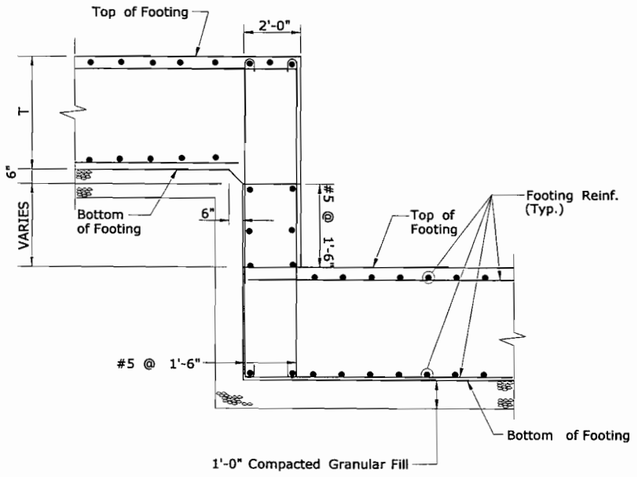
DRAWING TITLE:
RETAINING WALL DETAILS - 2

PROJECT NO. 093-H052
DRAWING NO. RW-02
SHEET NO. 15.10.002



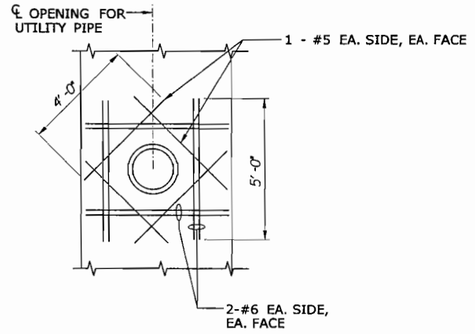
STEPPED FOOTING DETAIL - 2'-0"

SCALE: 3/8" =1'-0"



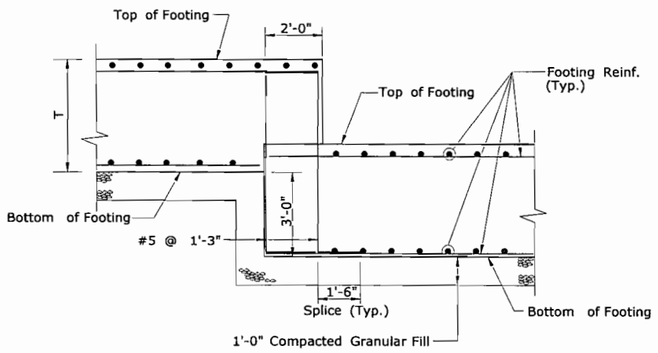
STEPPED FOOTING DETAIL - > (T + 6")

SCALE: 3/8" =1'-0"



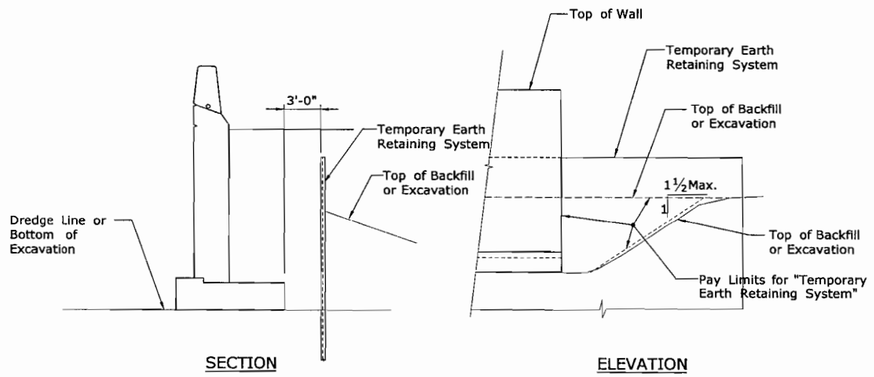
KNOCKOUT REINFORCEMENT DETAIL

SCALE: 3/8"=1'-0"



STEPPED FOOTING DETAIL - 3'-0" TO (T + 6")

SCALE: 3/8" =1'-0"



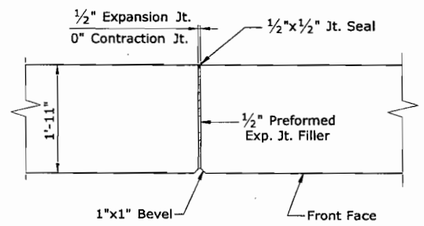
SECTION ELEVATION

NOTES

1. Temporary Earth Retaining System, if ordered left in place shall have an additional payment under the item "Earth Retaining System Left In Place"

TEMPORARY EARTH RETAINING SYSTEM PAY LIMITS

N.T.S.



JOINT DETAIL

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

NOTES:

JOINTS

Joint seal to extend from the top of footing to top of parapet and horizontally along this joint to outside face of parapet and horizontally along this joint to the outside face of wall. (Retaining walls with parapets)

Joint seal to extend from top of footing to top of wall. (Retaining walls)

REINFORCEMENT

No reinforcement shall pass through expansion or contraction joints.

Reinforcement shall pass through construction joints.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted:

DESIGNER/DRAFTER: LSD
CHECKED BY: KAT
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename:

SIGNATURE/ BLOCK:
Baker
MICHAEL BAKER ENGINEERING, INC.
APPROVED BY: DATE:

PROJECT TITLE:
NEW BRITAIN - HARTFORD BUSWAY
AMTRAK ACCESS ROAD

TOWN:
NEWINGTON, WEST HARTFORD & HARTFORD

DRAWING TITLE:
RETAINING WALL DETAILS - 3

PROJECT NO. 093-H052
DRAWING NO. RW-03
SHEET NO. 15.10.003