

MINNESOTA DEPARTMENT OF TRANSPORTATION

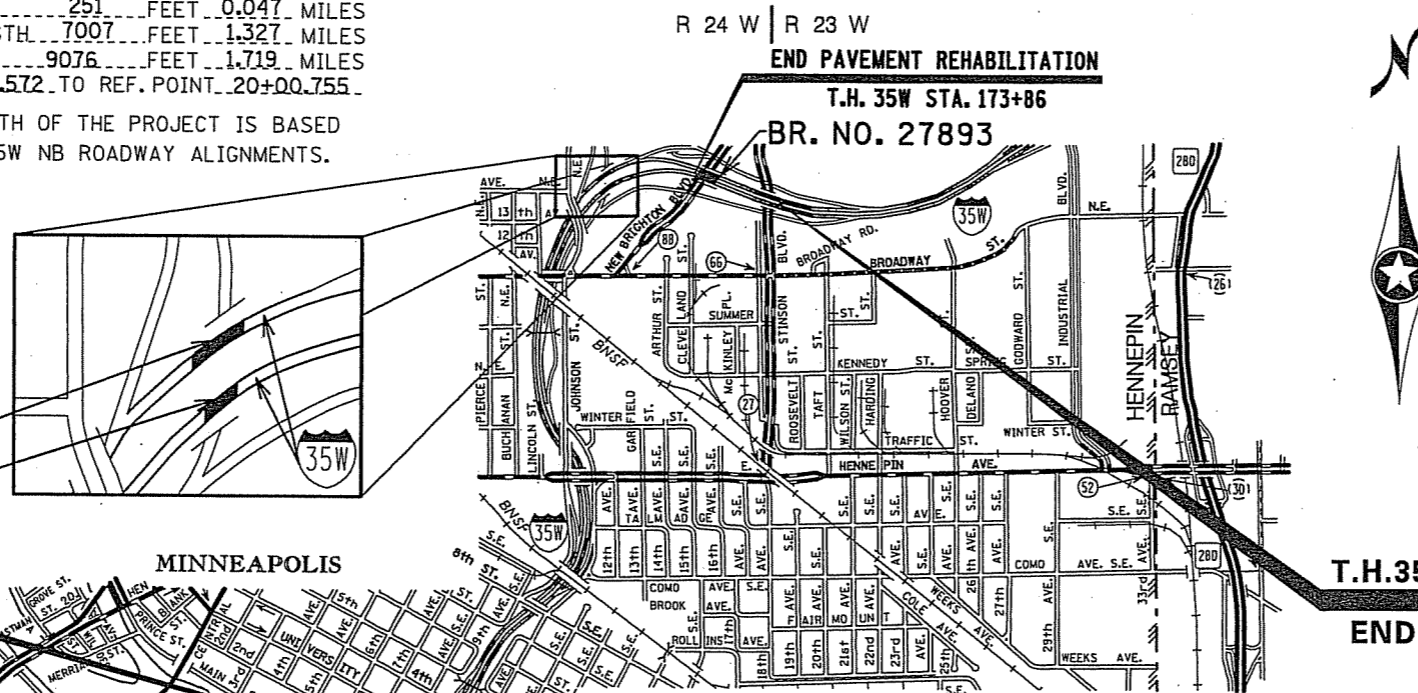
CONSTRUCTION PLAN FOR **CONCRETE CRACK & JOINT REPAIR, CONCRETE PLANING, CONCRETE & BITUMINOUS SURFACING, BITUMINOUS MILL & OVERLAY, ANTI-ICING SYSTEM, LIGHTING, GUARDRAIL, TMS AND BRIDGE REHABILITATION-** BR. NO. 27873, BR. NO. 27874, BR. NO. 27902, BR. NO. 27879B, BR. NO. 27879A, BR. NO. 27880A, BR. NO. 27880, BR. NO. 27903, BR. NO. 9340, BR. NO. 27888, BR. NO. 27887, BR. NO. 27893.

LOCATED ON **T.H. 35W FROM NORTH OF T.H. 94 TO STINSON BLVD. IN THE CITY OF MINNEAPOLIS**

STATE PROJ. NO. 2783-107 (T.H. 35W)
 GROSS LENGTH.....16334.....FEET 3.094 MILES
 BRIDGES-LENGTH.....251.....FEET 0.047 MILES
 EXCEPTIONS-LENGTH.....7007.....FEET 1.327 MILES
 NET LENGTH.....9076.....FEET 1.719 MILES
 REF. POINT 17+00.572 TO REF. POINT 20+00.755

NOTE: THE LENGTH OF THE PROJECT IS BASED ON THE 35W NB ROADWAY ALIGNMENTS.

- EQUATIONS:**
- MEDIAN35W STA. 100+17.80 AH
 - LMED35W STA. 100+17.80 BK =
 - MEDIAN35W STA. 48+99.67 AH
 - MEDIAN35W STA. 111+62.99 BK =
 - MEDIAN35W STA. 76+53.79 AH
 - MEDIAN35W STA. 76+53.98 BK =
 - MEDIAN35W STA. 99+19.49 AH
 - MEDIAN35W STA. 99+19.51 BK =
 - MEDIAN35W STA. 113+49.93 AH
 - MEDIAN35W STA. 113+49.95 BK =
 - MEDIAN35W STA. 120+80.81 AH
 - MEDIAN35W STA. 120+80.82 BK =
 - MEDIAN35W STA. 124+91.19 AH
 - MEDIAN35W STA. 125+18.31 BK =
 - LOR2-NB35W STA. 127+64.85 AH
 - MEDIAN35W STA. 127+64.85 BK =
 - LOR2-NB35W STA. 157+98.29 AH
 - LOR2-NB35W STA. 157+98.35 BK =
 - LOR-NB35W STA. 166+05.53 AH
 - LOR2-NB35W STA. 165+99.02 BK =
 - LMED35W-2 STA. 182+31.47 AH
 - LOR-NB35W STA. 179+70.53 BK =
 - LMED35W-2 STA. 186+29.85 AH
 - LMED35W-2 STA. 186+29.32 BK =



BR. NO. 27887
 BR. NO. 27888

BEGIN PAVEMENT REHABILITATION
 T.H. 35W STA. 77+81

T.H.35W STA. 186+99
 END S.P. 2783-107

BR. NO. 9340

BEGIN S.P. 2783-107
 T.H. 35W STA. 80+88

BR. NO. 27903

BR. NO. 27880

BR. NO. 27880A

BR. NO. 27879A

BR. NO. 27902

BR. NO. 27879B

BR. NO. 27874

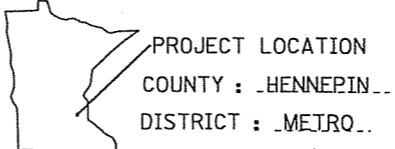
BR. NO. 27873

SCALES

PLAN	100'
INDEX MAP	2500'
GENERAL LAYOUT	200'

DESIGN DESIGNATION

Design ESALS	N/A =	Design Speed	N/A MPH
ADT (Current Year) 2004	= 141,000	Based on	Sight Distance
ADT (Future Year)	=	DHV (Design Hr. Vol.)	=
D (Directional Distr.)	= %	D (Directional Distr.)	= %
T (Heavy Commercial)	= 4.0 %	T (Heavy Commercial)	= 4.0 %



FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL

STATE PROJ. NO. 2783-107

CHARGE IDENTIFIER

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION 'STANDARD SPECIFICATIONS FOR CONSTRUCTION' SHALL GOVERN.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	GENERAL LAYOUT
5-7	ESTIMATED QUANTITIES
8	TABULATION INDEX AND STANDARD PLATES
9	SOILS AND CONSTRUCTION NOTES
10-15	TABULATIONS
16-29	INPLACE UTILITY TABULATIONS
30-32	TYPICAL SECTIONS
33-44C, 45-55	STANDARD PLAN SHEETS
55-65	INPLACE TOPOGRAPHY AND REMOVAL PLAN
66-76	CONSTRUCTION PLAN
77-86	CONCRETE PAVEMENT REHABILITATION DETAILS
88-93	JOINT CONSTRUCTION DETAILS
94-107	GUARDRAIL SITE DETAILS
110-114	GUARDRAIL DETAILS
115-126	PIER PROTECTION DETAILS
127-132	CONCRETE SHOULDER CONSTRUCTION DETAILS
133-138	ANTI-ICING DISTRIBUTION SYSTEM DETAILS
139-145	DRAINAGE PLAN
146-154A	DRAINAGE DETAILS
155	STORM WATER POLLUTION PREVENTION PLAN NARRATIVE
156-166	TURF ESTABLISHMENT AND EROSION CONTROL PLAN
167-330	TRAFFIC CONTROL PLAN
331-349	PERMANENT PAVEMENT MARKING PLAN
350-360	LIGHTING PLAN
361-367	SIGNING PLAN
368-385	TRAFFIC MANAGEMENT SYSTEMS PLAN
386-396	SIGNAL PLAN

SHEETS NO. 54, 87, 108, 109 HAVE BEEN DELETED

THIS PLAN CONTAINS 396 SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: GEOFF PRELGO LICENSE # 26530

DATE: 3/8/07 SIGNATURE: *Geoff Prelgo*

DESIGN SQUAD J. MARTIN, L. REYES, R. POST, R. WALZ

RECOMMENDED FOR APPROVAL *Glen C. Ellis* 3/12/07 DISTRICT TRANSPORTATION ENGINEER

RECOMMENDED FOR APPROVAL *Benjamin J. Simon* 3/12/07 DISTRICT MATERIALS ENGINEER

RECOMMENDED FOR APPROVAL *Priscilla A. David* 3/8/07 DISTRICT WATER RESOURCES ENGINEER

RECOMMENDED FOR APPROVAL *Ann Sabo* 3/9/07 DISTRICT TRAFFIC ENGINEER

RECOMMENDED FOR APPROVAL *Dennis J. ...* 3/21/07 STATE TRAFFIC ENGINEER

OFFICE OF LAND MANAGEMENT APPROVAL *M. ...* 3/12/07 DIRECTOR, LAND MANAGEMENT

APPROVED *Mar 20 2007* STATE DESIGN ENGINEER

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

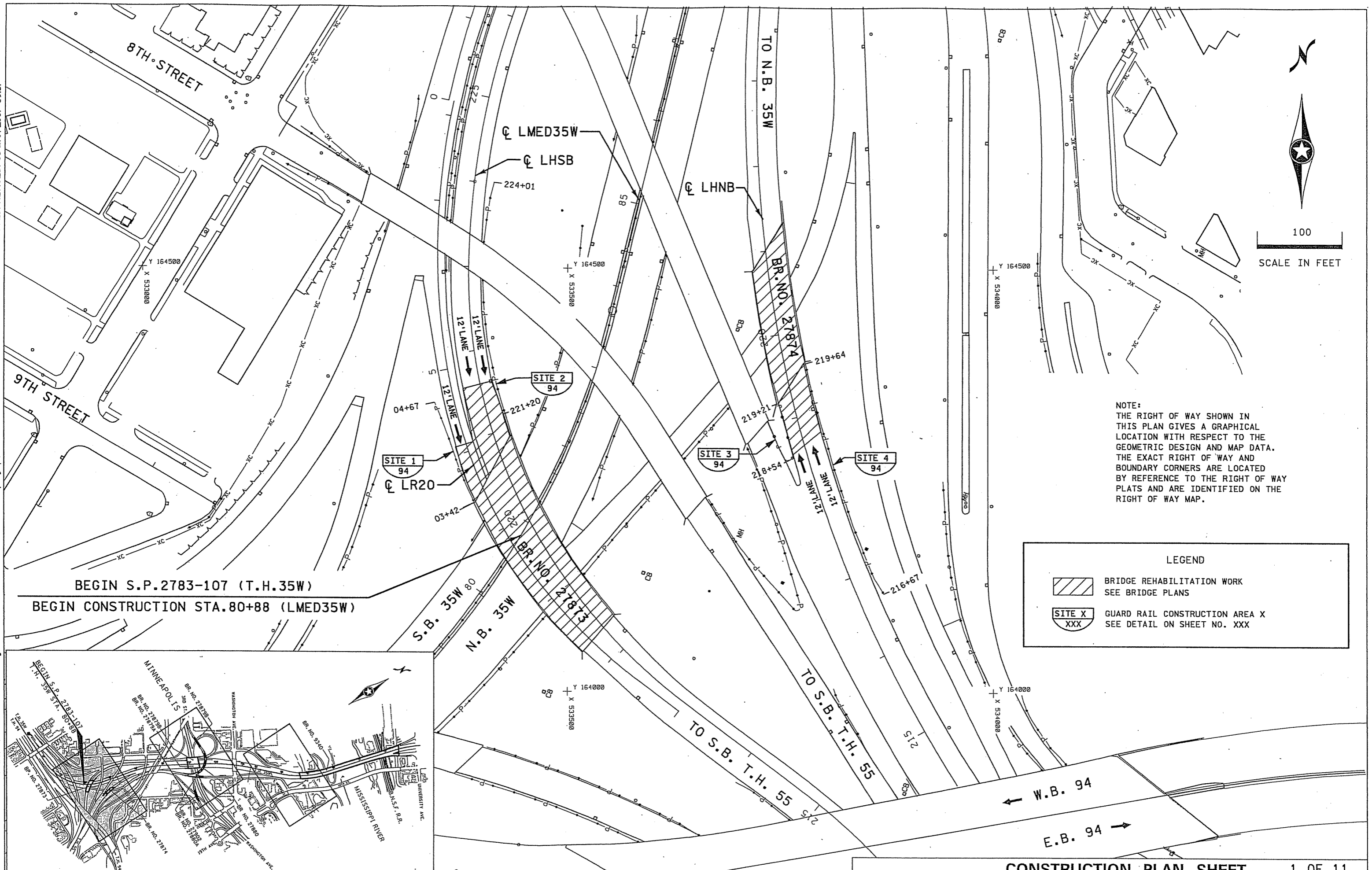
PRINT NAME: _____ LICENSE # _____

DATE: _____ SIGNATURE: _____

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 PLOTTED/REVISED: 08-MAR-2007 12:52

PLOTTED/REVISED: 05-MAR-2007

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IPLLOT NAME: d2783107_cpl
PATH & FILENAME: S:\Design\035W\2783107\final\sheet\035W\2783107_cpl.dwg



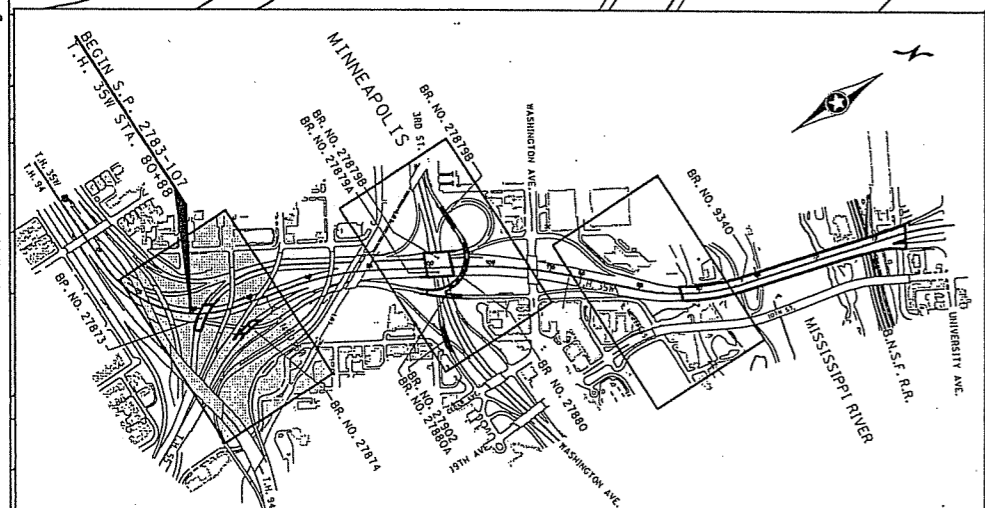
BEGIN S.P.2783-107 (T.H.35W)
 BEGIN CONSTRUCTION STA.80+88 (LMED35W)

LEGEND

BRIDGE REHABILITATION WORK
SEE BRIDGE PLANS

GUARD RAIL CONSTRUCTION AREA X
SEE DETAIL ON SHEET NO. XXX

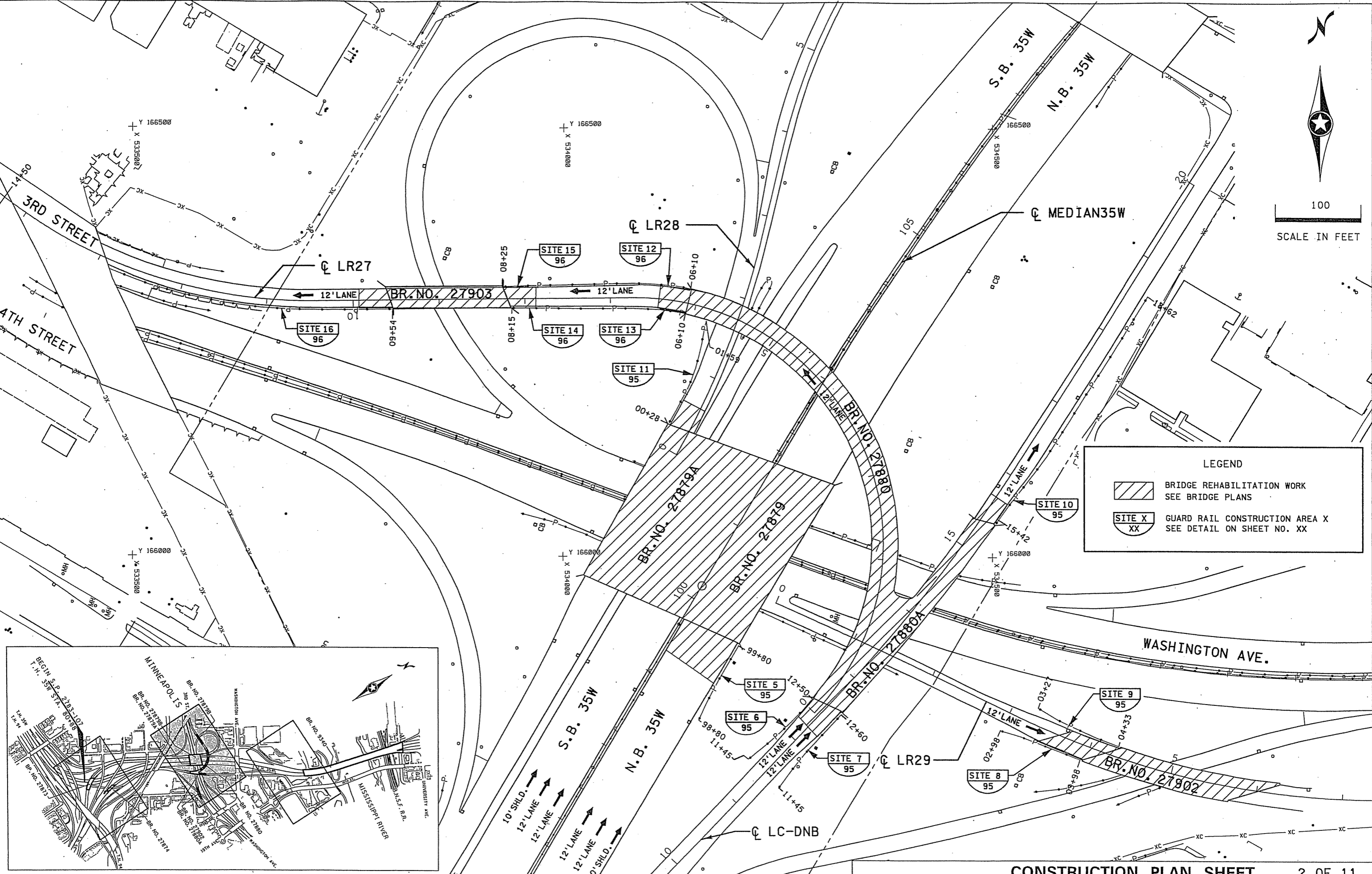
NOTE:
 THE RIGHT OF WAY SHOWN IN
 THIS PLAN GIVES A GRAPHICAL
 LOCATION WITH RESPECT TO THE
 GEOMETRIC DESIGN AND MAP DATA.
 THE EXACT RIGHT OF WAY AND
 BOUNDARY CORNERS ARE LOCATED
 BY REFERENCE TO THE RIGHT OF WAY
 PLATS AND ARE IDENTIFIED ON THE
 RIGHT OF WAY MAP.



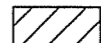

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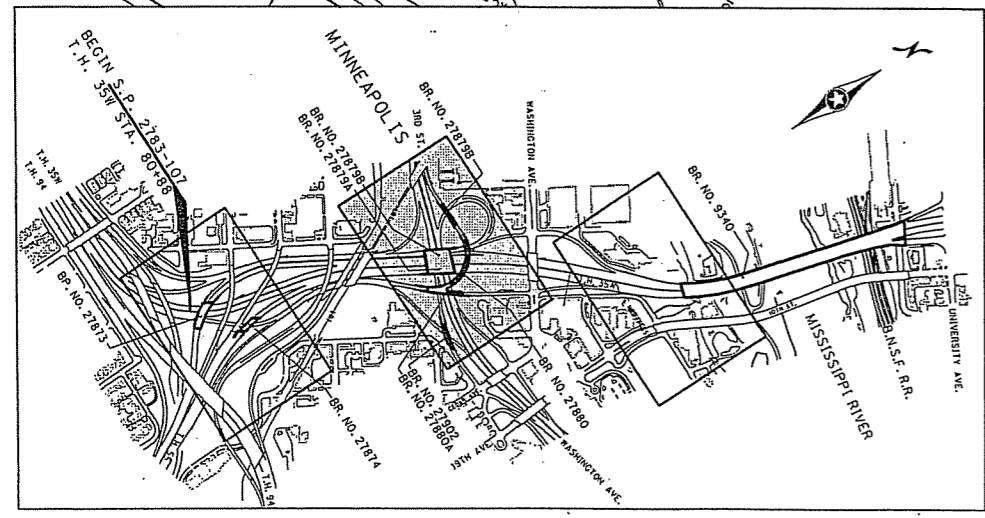
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PLOT NAME: d2783107_cp2
PATH & FILENAME: S:\Design\2783107\final\sheet\2783107_cp2.dgn

100
SCALE IN FEET



LEGEND

-  BRIDGE REHABILITATION WORK
SEE BRIDGE PLANS
-  SITE X
GUARD RAIL CONSTRUCTION AREA X
SEE DETAIL ON SHEET NO. XX



DRAWN BY: RJW

CHECKED BY: GP

CERTIFIED BY

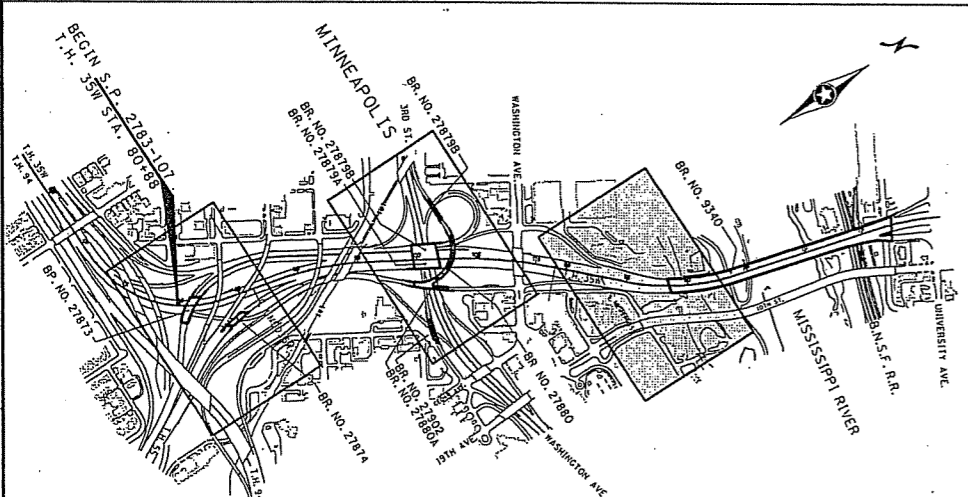
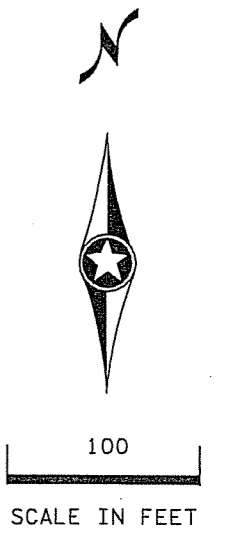
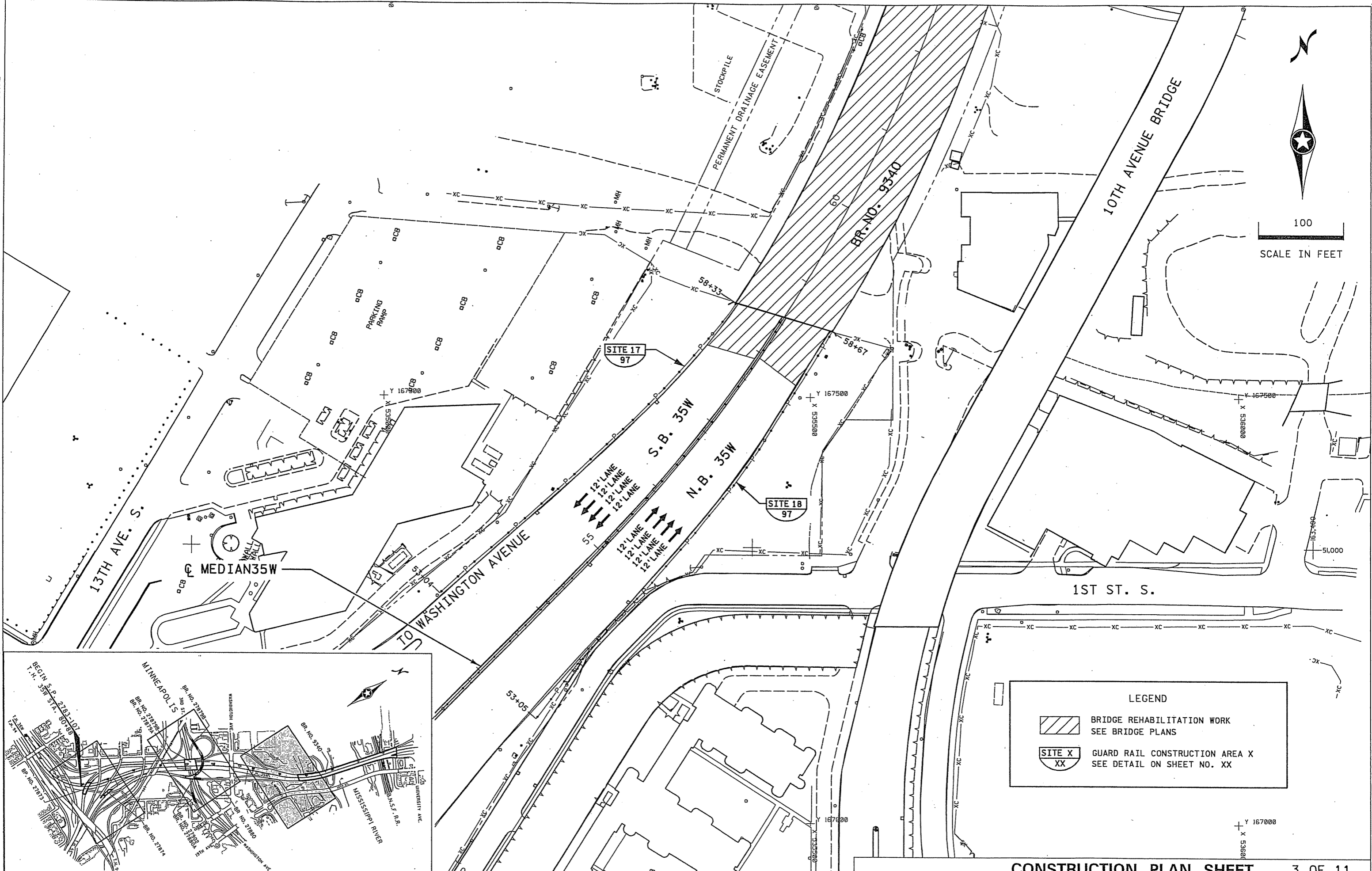
Robert M. Puleo
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07



STATE PROJ. NO. 2783-107 (T.H. 35W)

SHEET NO. 67 OF 396 SHEETS

CONSTRUCTION PLAN SHEET 2 OF 11

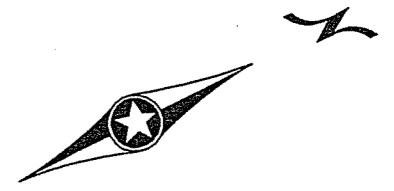


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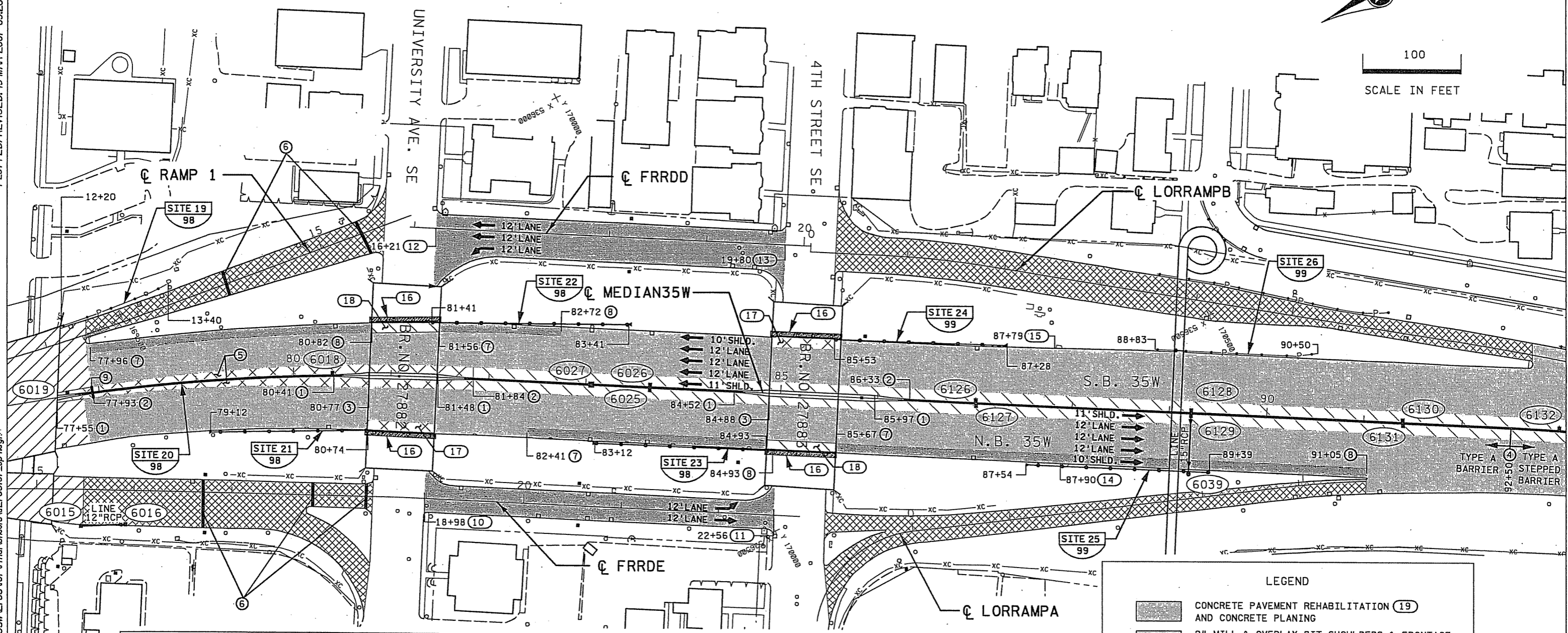
	BRIDGE REHABILITATION WORK SEE BRIDGE PLANS
	GUARD RAIL CONSTRUCTION AREA X SEE DETAIL ON SHEET NO. XX

PLOTTED/REVISED: 19-MAR-2007

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SCALE IN FEET



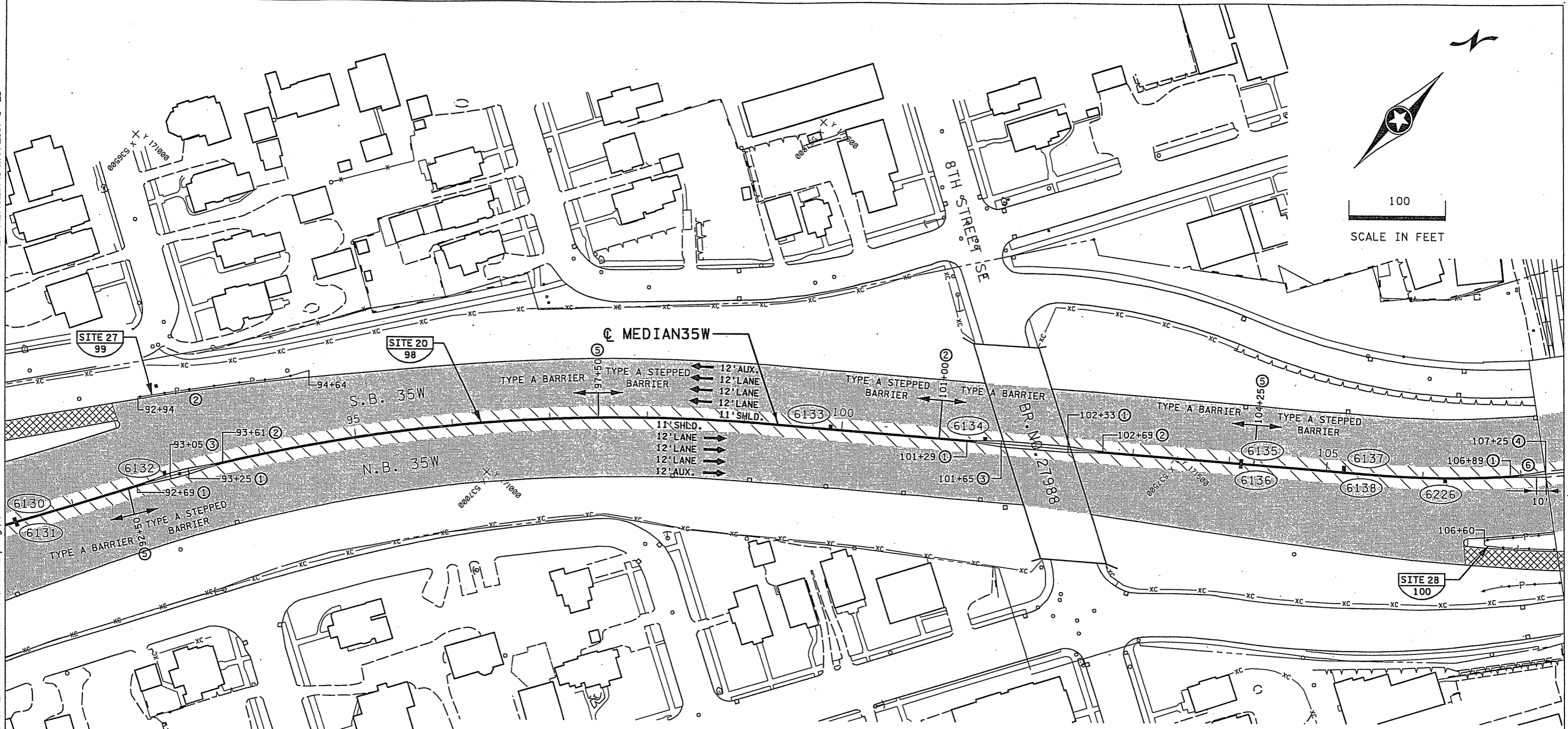
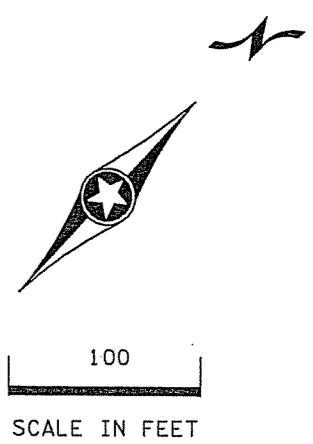
- ① BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TRANSITION.
- ② BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TYPE "A".
- ③ BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TYPE "A-A".
- ④ BEGIN CONSTRUCTION OF MEDIAN BARRIER DES. 8308 TYPE "A" STEP.
- ⑤ CONSTRUCT CONCRETE SHOULDER. SEE DETAILS ON SHEETS NO. 127-131.
- ⑥ REMOVE EXISTING PAVEMENT JOINTS AND REPLACE WITH NEW JOINTS. SEE DETAILS ON SHEETS NO. 92-93.
- ⑦ BEGIN 2" MILL & OVERLAY OF OUTSIDE SHOULDER.
- ⑧ END 2" MILL & OVERLAY OF OUTSIDE SHOULDER.
- ⑨ CONSTRUCT E-8 JOINT SEE DETAIL SHEETS NO.40, 127 & 130 FOR DETAILS.
- ⑩ BEGIN 2" MILL & OVERLAY ON FRONTAGE ROAD FRRDE.
- ⑪ END 2" MILL & OVERLAY ON FRONTAGE ROAD FRRDE.
- ⑫ BEGIN 2" MILL & OVERLAY ON FRONTAGE ROAD FRRDD.
- ⑬ END 2" MILL & OVERLAY ON FRONTAGE ROAD FRRDD.
- ⑭ REMOVE INPLACE CURB CUT AND CONC. WALK. CONSTRUCT 10' OF CURB & GUTTER BEGINNING AT THIS STATION.
- ⑮ REMOVE INPLACE CURB CUT AND CONC. WALK. CONSTRUCT 9' OF CURB & GUTTER BEGINNING AT THIS STATION.
- ⑯ CONSTRUCT CONCRETE BARRIER WALL BETWEEN THE BRIDGE PIER COLUMNS AND THE ADJACENT SHOULDER. SEE DETAILS ON SHEETS NO. 121-126.
- ⑰ CONSTRUCT CONCRETE SHOULDER SEE SHEETS NO. 118 & 120.
- ⑱ CONSTRUCT BITUMINOUS SHOULDER SEE SHEETS NO. 119 & 120.
- ⑲ CONCRETE PLANING OF THE SHOULDERS IS SHOWN. ACTUAL NEED FOR PLANING THE SHOULDERS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LEGEND

- CONCRETE PAVEMENT REHABILITATION (19) AND CONCRETE PLANING
- 2" MILL & OVERLAY BIT. SHOULDERS & FRONTAGE ROADS BETWEEN UNIVERSITY AVE. & 4TH ST.
- RECONSTRUCT 7" BITUMINOUS SHOULDER
- BRIDGE REHABILITATION WORK SEE BRIDGE PLANS
- CONCRETE SHOULDER REPLACEMENT (FULL DEPTH)
- CONCRETE PAVEMENT REHABILITATION ONLY
- INPLACE DRAINAGE STRUCTURES TO HAVE WORK DONE UNDER THIS PROJECTS CONTRACT
- GUARD RAIL CONSTRUCTION AREA X SEE DETAIL ON SHEET NO. XX

PLOTTED/REVISED: 19-MAR-2007 .5

DISTRICT #: METRO
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- ① BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TRANSITION.
- ② BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TYPE "A".
- ③ BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TYPE "A-A".
- ④ END CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TRANSITION.
- ⑤ BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TYPE "A" STEP.
- ⑥ 10' MEDIAN BARRIER TRANSITION - TRANSITION THE BARRIER TO MATCH THE INPLACE PIER PROTECTION.
- ⑦ CONCRETE PLANING OF THE SHOULDERS IS SHOWN. ACTUAL NEED FOR PLANING THE SHOULDERS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LEGEND

	CONCRETE PAVEMENT REHABILITATION ⑦ AND CONCRETE PLANING
	RECONSTRUCT 7" BITUMINOUS SHOULDER
	CONCRETE PAVEMENT REHABILITATION ONLY
	INPLACE DRAINAGE STRUCTURES TO HAVE WORK DONE UNDER THIS PROJECTS CONTRACT
	GUARD RAIL CONSTRUCTION AREA X SEE DETAIL ON SHEET NO. XX

DRAWN BY: LJR

CHECKED BY: GP

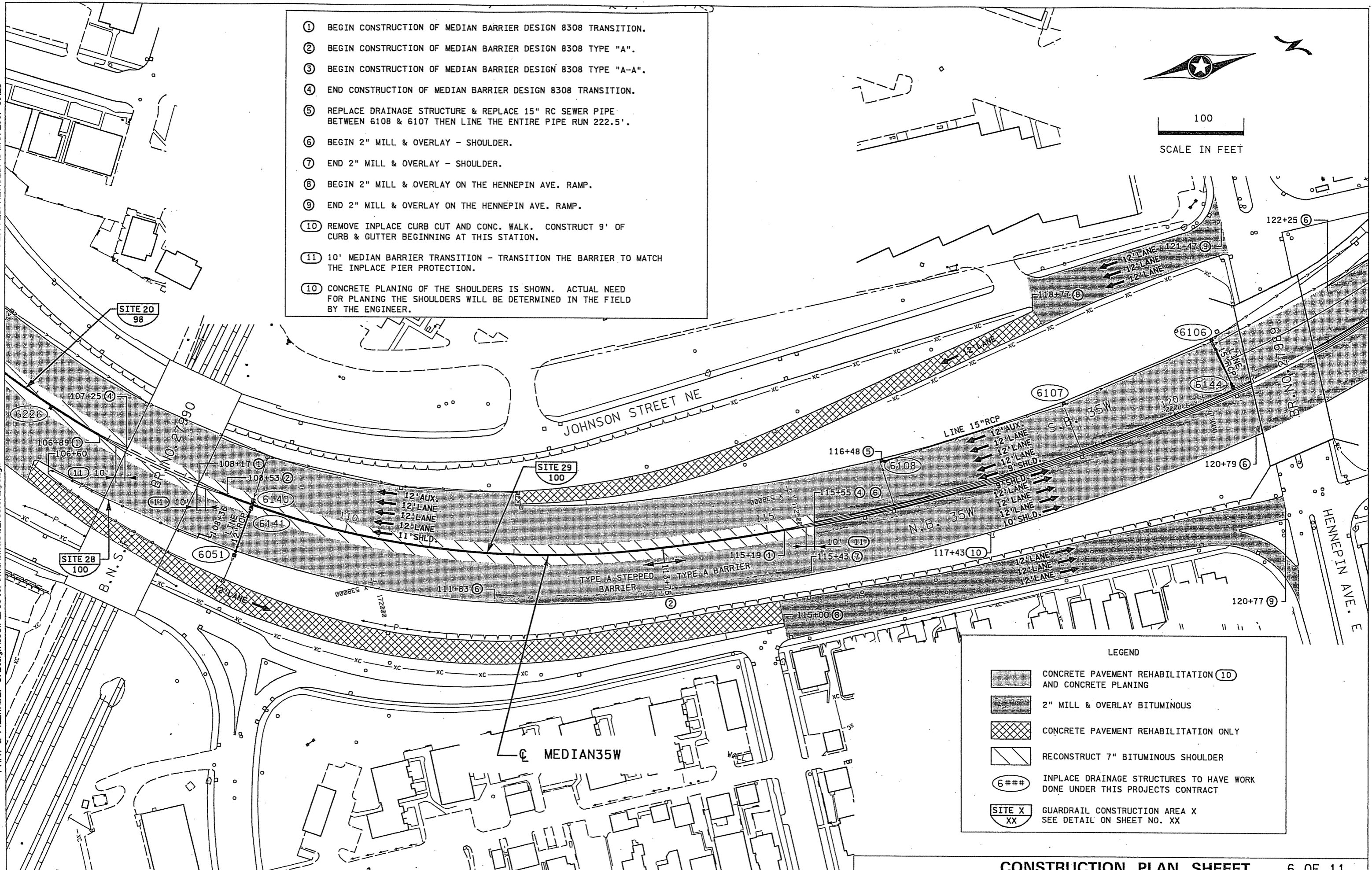
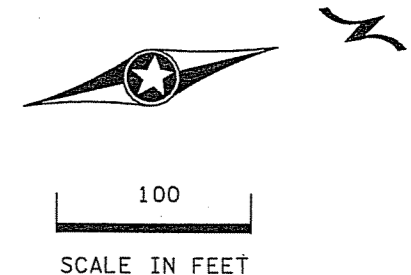
CERTIFIED BY *Robert M. Puleo*
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

PLOTTED/REVISED: 19-MAR-2007

DISTRICT #: METRO
PLOT NAME: d2783107_cpb
PATH & FILENAME: S:\Design\035W\2783107\final\sheet\2783107_cpb.dwg, 11

- ① BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TRANSITION.
- ② BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TYPE "A".
- ③ BEGIN CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TYPE "A-A".
- ④ END CONSTRUCTION OF MEDIAN BARRIER DESIGN 8308 TRANSITION.
- ⑤ REPLACE DRAINAGE STRUCTURE & REPLACE 15" RC SEWER PIPE BETWEEN 6108 & 6107 THEN LINE THE ENTIRE PIPE RUN 222.5'.
- ⑥ BEGIN 2" MILL & OVERLAY - SHOULDER.
- ⑦ END 2" MILL & OVERLAY - SHOULDER.
- ⑧ BEGIN 2" MILL & OVERLAY ON THE HENNEPIN AVE. RAMP.
- ⑨ END 2" MILL & OVERLAY ON THE HENNEPIN AVE. RAMP.
- ⑩ REMOVE INPLACE CURB CUT AND CONC. WALK. CONSTRUCT 9' OF CURB & GUTTER BEGINNING AT THIS STATION.
- ⑪ 10' MEDIAN BARRIER TRANSITION - TRANSITION THE BARRIER TO MATCH THE INPLACE PIER PROTECTION.
- ⑩ CONCRETE PLANING OF THE SHOULDERS IS SHOWN. ACTUAL NEED FOR PLANING THE SHOULDERS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.



LEGEND	
	CONCRETE PAVEMENT REHABILITATION ⑩ AND CONCRETE PLANING
	2" MILL & OVERLAY BITUMINOUS
	CONCRETE PAVEMENT REHABILITATION ONLY
	RECONSTRUCT 7" BITUMINOUS SHOULDER
	INPLACE DRAINAGE STRUCTURES TO HAVE WORK DONE UNDER THIS PROJECTS CONTRACT
	GUARDRAIL CONSTRUCTION AREA X SEE DETAIL ON SHEET NO. XX

DRAWN BY: LJR

CHECKED BY: GP

CERTIFIED BY

Robert M. Puleo
 LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 71 OF 396 SHEETS

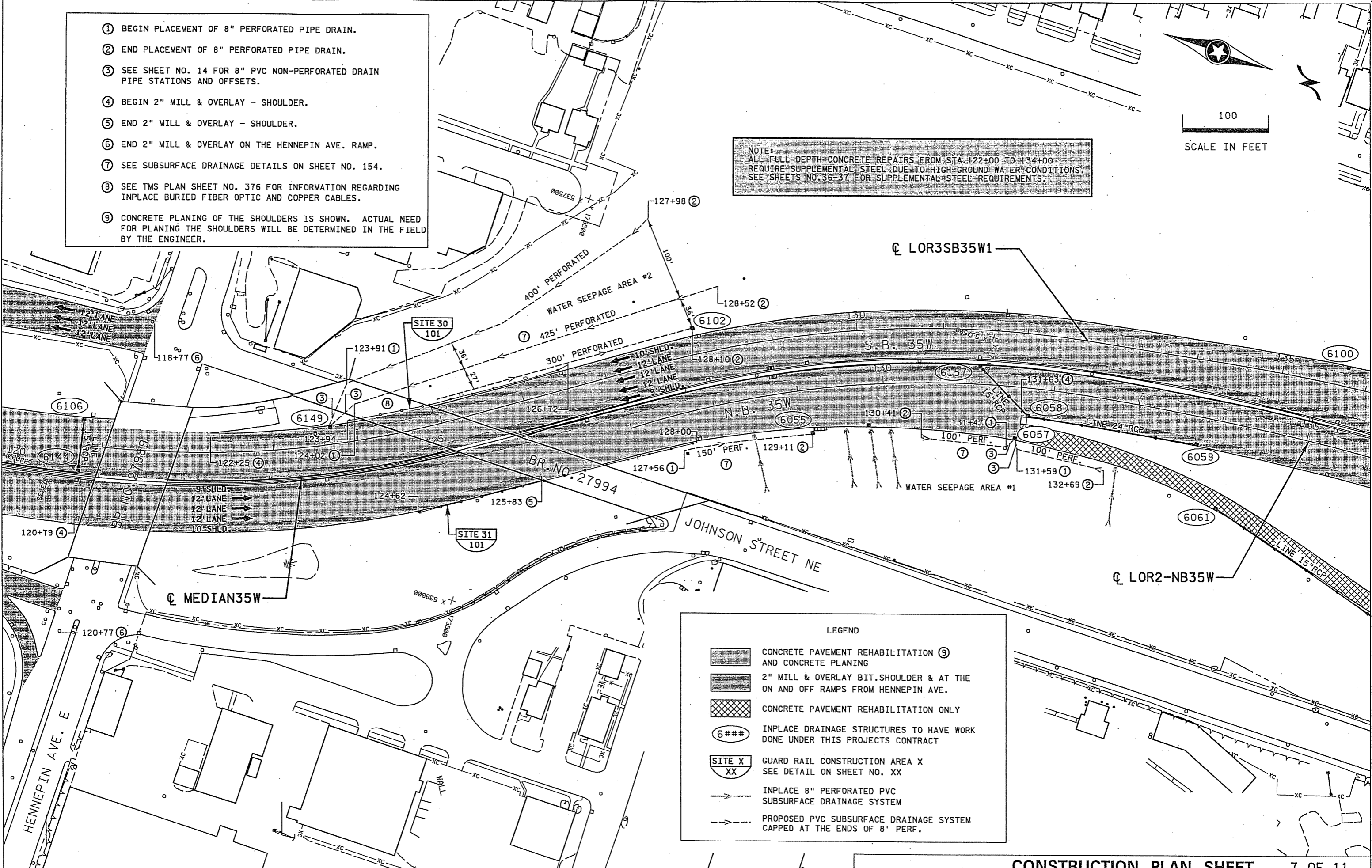
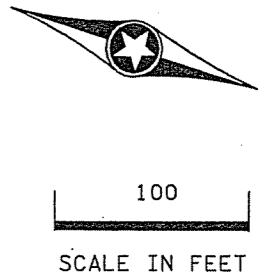
CONSTRUCTION PLAN SHEET 6 OF 11

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DISTRICT #: METRO
PLOT NAME: d2783107_c07
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- ① BEGIN PLACEMENT OF 8" PERFORATED PIPE DRAIN.
- ② END PLACEMENT OF 8" PERFORATED PIPE DRAIN.
- ③ SEE SHEET NO. 14 FOR 8" PVC NON-PERFORATED DRAIN PIPE STATIONS AND OFFSETS.
- ④ BEGIN 2" MILL & OVERLAY - SHOULDER.
- ⑤ END 2" MILL & OVERLAY - SHOULDER.
- ⑥ END 2" MILL & OVERLAY ON THE HENNEPIN AVE. RAMP.
- ⑦ SEE SUBSURFACE DRAINAGE DETAILS ON SHEET NO. 154.
- ⑧ SEE TMS PLAN SHEET NO. 376 FOR INFORMATION REGARDING INPLACE BURIED FIBER OPTIC AND COPPER CABLES.
- ⑨ CONCRETE PLANING OF THE SHOULDERS IS SHOWN. ACTUAL NEED FOR PLANING THE SHOULDERS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
ALL FULL DEPTH CONCRETE REPAIRS FROM STA. 122+00 TO 134+00 REQUIRE SUPPLEMENTAL STEEL DUE TO HIGH GROUND WATER CONDITIONS. SEE SHEETS NO. 36-37 FOR SUPPLEMENTAL STEEL REQUIREMENTS.



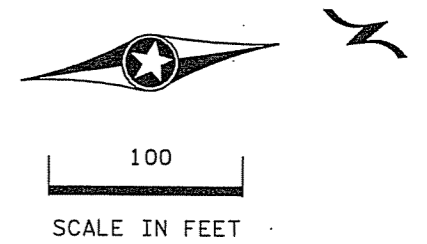
LEGEND

- CONCRETE PAVEMENT REHABILITATION ⑨ AND CONCRETE PLANING
- 2" MILL & OVERLAY BIT. SHOULDER & AT THE ON AND OFF RAMP FROM HENNEPIN AVE.
- CONCRETE PAVEMENT REHABILITATION ONLY
- INPLACE DRAINAGE STRUCTURES TO HAVE WORK DONE UNDER THIS PROJECTS CONTRACT
- GUARD RAIL CONSTRUCTION AREA X SEE DETAIL ON SHEET NO. XX
- INPLACE 8" PERFORATED PVC SUBSURFACE DRAINAGE SYSTEM
- PROPOSED PVC SUBSURFACE DRAINAGE SYSTEM CAPPED AT THE ENDS OF 8' PERF.

CONSTRUCTION PLAN SHEET 7 OF 11

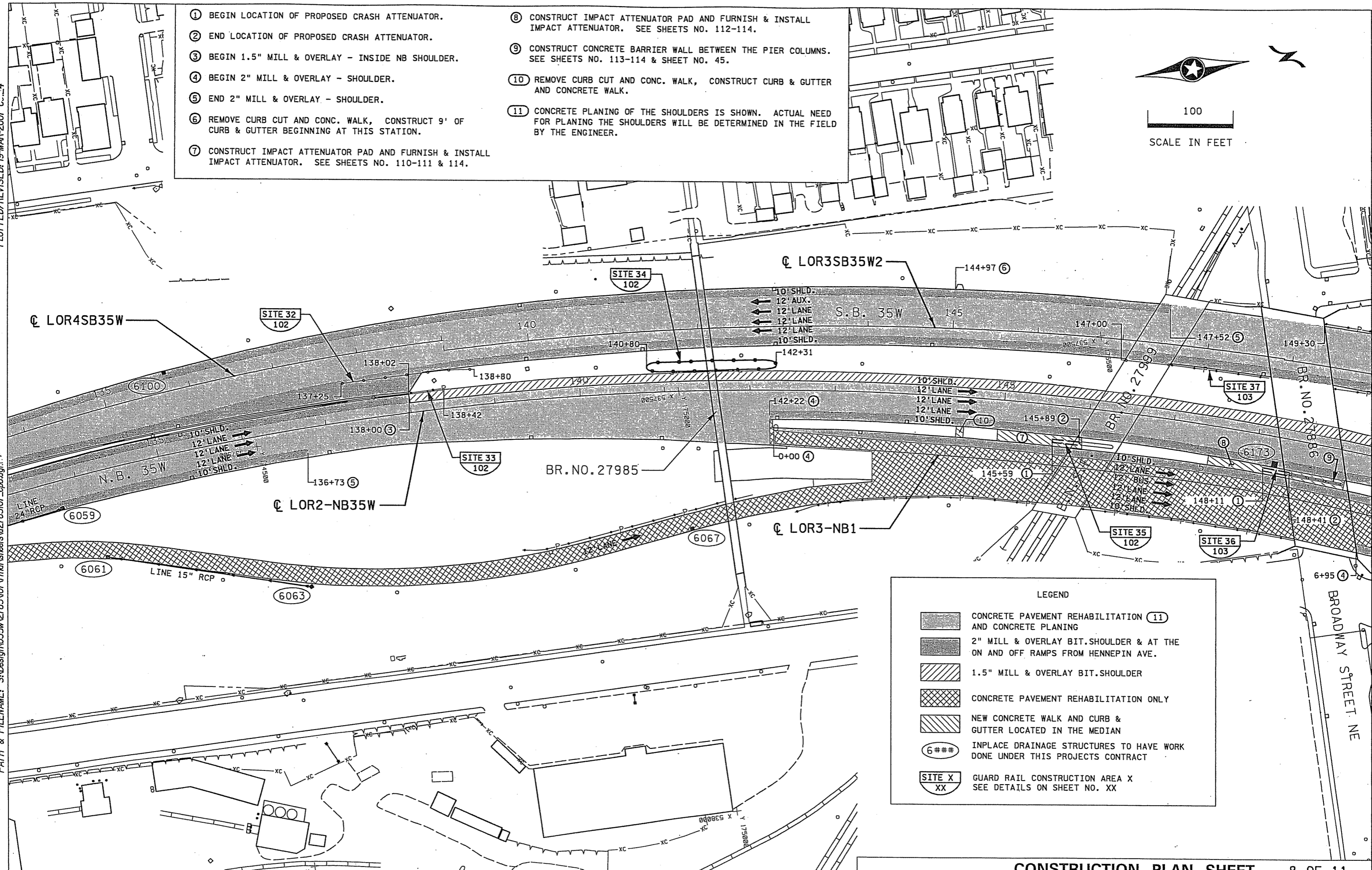
- ① BEGIN LOCATION OF PROPOSED CRASH ATTENUATOR.
- ② END LOCATION OF PROPOSED CRASH ATTENUATOR.
- ③ BEGIN 1.5" MILL & OVERLAY - INSIDE NB SHOULDER.
- ④ BEGIN 2" MILL & OVERLAY - SHOULDER.
- ⑤ END 2" MILL & OVERLAY - SHOULDER.
- ⑥ REMOVE CURB CUT AND CONC. WALK, CONSTRUCT 9' OF CURB & GUTTER BEGINNING AT THIS STATION.
- ⑦ CONSTRUCT IMPACT ATTENUATOR PAD AND FURNISH & INSTALL IMPACT ATTENUATOR. SEE SHEETS NO. 110-111 & 114.

- ⑧ CONSTRUCT IMPACT ATTENUATOR PAD AND FURNISH & INSTALL IMPACT ATTENUATOR. SEE SHEETS NO. 112-114.
- ⑨ CONSTRUCT CONCRETE BARRIER WALL BETWEEN THE PIER COLUMNS. SEE SHEETS NO. 113-114 & SHEET NO. 45.
- ⑩ REMOVE CURB CUT AND CONC. WALK, CONSTRUCT CURB & GUTTER AND CONCRETE WALK.
- ⑪ CONCRETE PLANING OF THE SHOULDERS IS SHOWN. ACTUAL NEED FOR PLANING THE SHOULDERS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.



PLOTTED/REVISED: 19-MAR-2007

DISTRICT: METRO
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LEGEND

	CONCRETE PAVEMENT REHABILITATION (11) AND CONCRETE PLANING
	2" MILL & OVERLAY BIT. SHOULDER & AT THE ON AND OFF RAMP FROM HENNEPIN AVE.
	1.5" MILL & OVERLAY BIT. SHOULDER
	CONCRETE PAVEMENT REHABILITATION ONLY
	NEW CONCRETE WALK AND CURB & GUTTER LOCATED IN THE MEDIAN
	INPLACE DRAINAGE STRUCTURES TO HAVE WORK DONE UNDER THIS PROJECTS CONTRACT
	GUARD RAIL CONSTRUCTION AREA X SEE DETAILS ON SHEET NO. XX

DRAWN BY: LJR

CHECKED BY:

CERTIFIED BY

Professional Engineer Signature
 LICENSED PROFESSIONAL ENGINEER

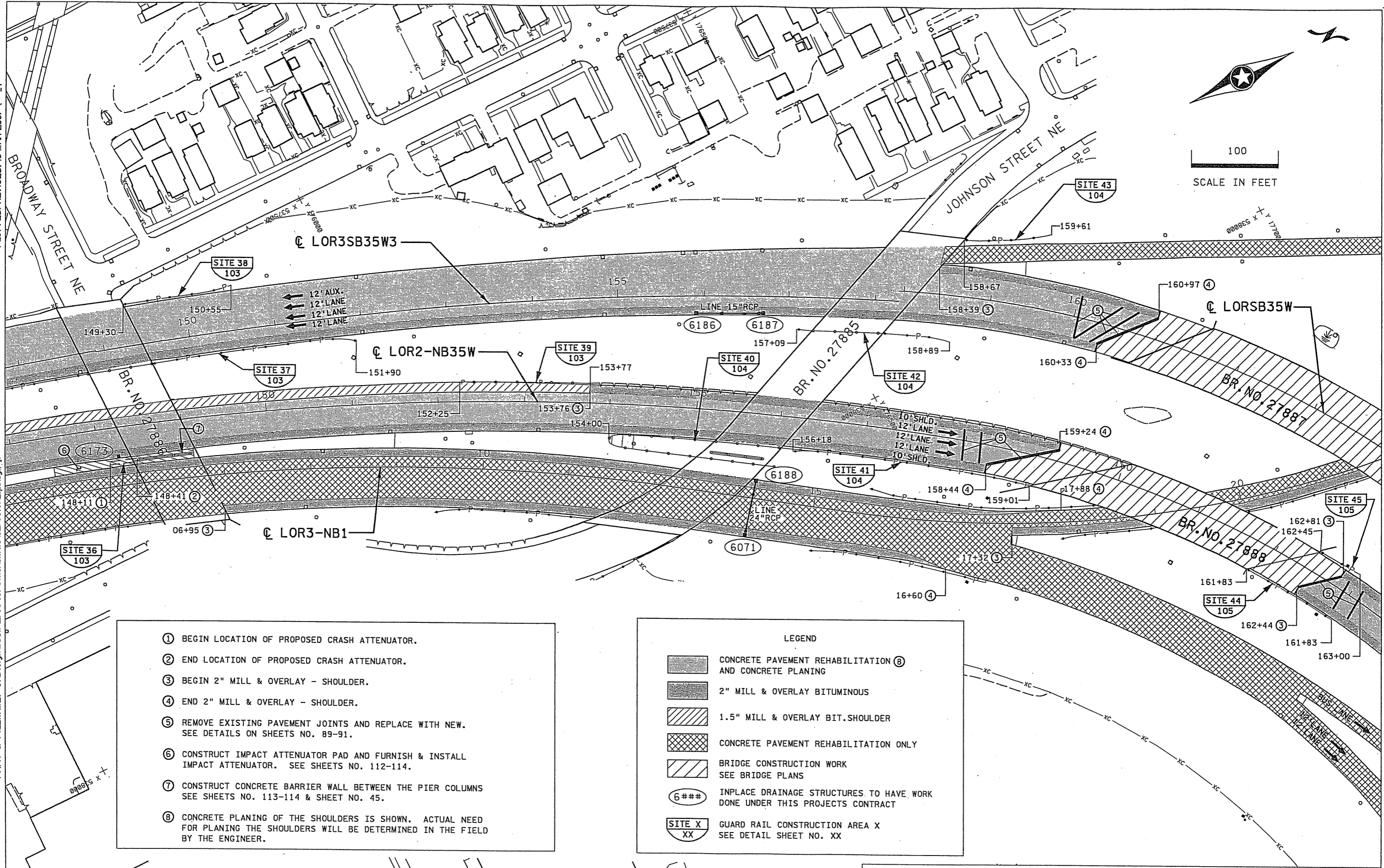
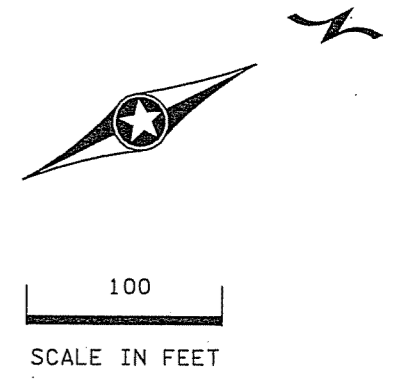
L.I.C. NO. 26530 DATE 03-08-07

CONSTRUCTION PLAN SHEET 8 OF 11

STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 73 OF 385 SHEETS

PLOTTED/REVISED: 19-MAR-2007 . 4

DISTRICT #: METRO
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- ① BEGIN LOCATION OF PROPOSED CRASH ATTENUATOR.
- ② END LOCATION OF PROPOSED CRASH ATTENUATOR.
- ③ BEGIN 2" MILL & OVERLAY - SHOULDER.
- ④ END 2" MILL & OVERLAY - SHOULDER.
- ⑤ REMOVE EXISTING PAVEMENT JOINTS AND REPLACE WITH NEW. SEE DETAILS ON SHEETS NO. 89-91.
- ⑥ CONSTRUCT IMPACT ATTENUATOR PAD AND FURNISH & INSTALL IMPACT ATTENUATOR. SEE SHEETS NO. 112-114.
- ⑦ CONSTRUCT CONCRETE BARRIER WALL BETWEEN THE PIER COLUMNS SEE SHEETS NO. 113-114 & SHEET NO. 45.
- ⑧ CONCRETE PLANING OF THE SHOULDERS IS SHOWN. ACTUAL NEED FOR PLANING THE SHOULDERS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LEGEND

	CONCRETE PAVEMENT REHABILITATION ⑧ AND CONCRETE PLANING
	2" MILL & OVERLAY BITUMINOUS
	1.5" MILL & OVERLAY BIT. SHOULDER
	CONCRETE PAVEMENT REHABILITATION ONLY
	BRIDGE CONSTRUCTION WORK SEE BRIDGE PLANS
	INPLACE DRAINAGE STRUCTURES TO HAVE WORK DONE UNDER THIS PROJECTS CONTRACT
	GUARD RAIL CONSTRUCTION AREA X SEE DETAIL SHEET NO. XX

DRAWN BY: LJR

CHECKED BY: GP

CERTIFIED BY
LIC. NO. 26530 DATE 03-08-07
LICENSED PROFESSIONAL ENGINEER

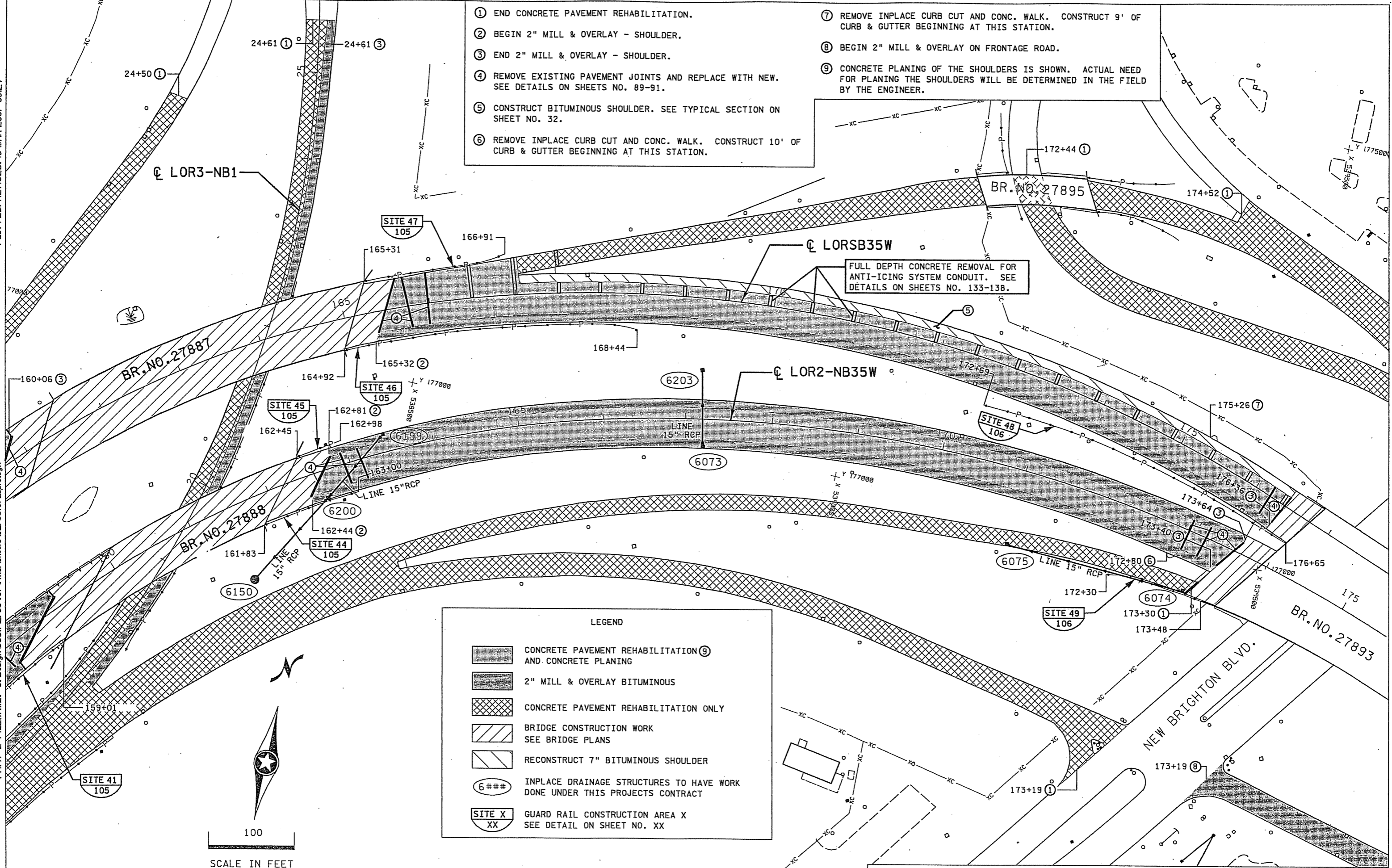
CONSTRUCTION PLAN SHEET 9 OF 11

STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 74 OF 385 SHEETS

PLOTTED/REVISED: 19-MAR-2007

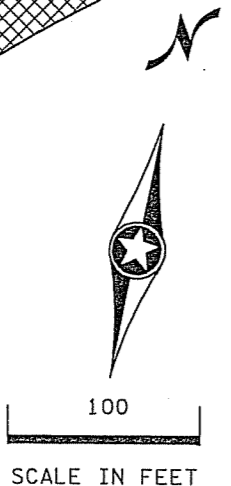
DISTRICT #: METRO
IFLOT NAME: d2783107_cpl0
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- ① END CONCRETE PAVEMENT REHABILITATION.
- ② BEGIN 2" MILL & OVERLAY - SHOULDER.
- ③ END 2" MILL & OVERLAY - SHOULDER.
- ④ REMOVE EXISTING PAVEMENT JOINTS AND REPLACE WITH NEW. SEE DETAILS ON SHEETS NO. 89-91.
- ⑤ CONSTRUCT BITUMINOUS SHOULDER. SEE TYPICAL SECTION ON SHEET NO. 32.
- ⑥ REMOVE INPLACE CURB CUT AND CONC. WALK. CONSTRUCT 10' OF CURB & GUTTER BEGINNING AT THIS STATION.
- ⑦ REMOVE INPLACE CURB CUT AND CONC. WALK. CONSTRUCT 9' OF CURB & GUTTER BEGINNING AT THIS STATION.
- ⑧ BEGIN 2" MILL & OVERLAY ON FRONTAGE ROAD.
- ⑨ CONCRETE PLANING OF THE SHOULDERS IS SHOWN. ACTUAL NEED FOR PLANING THE SHOULDERS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.



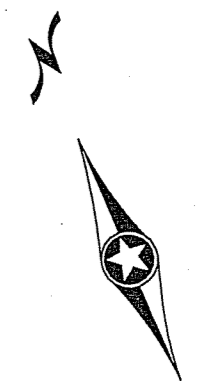
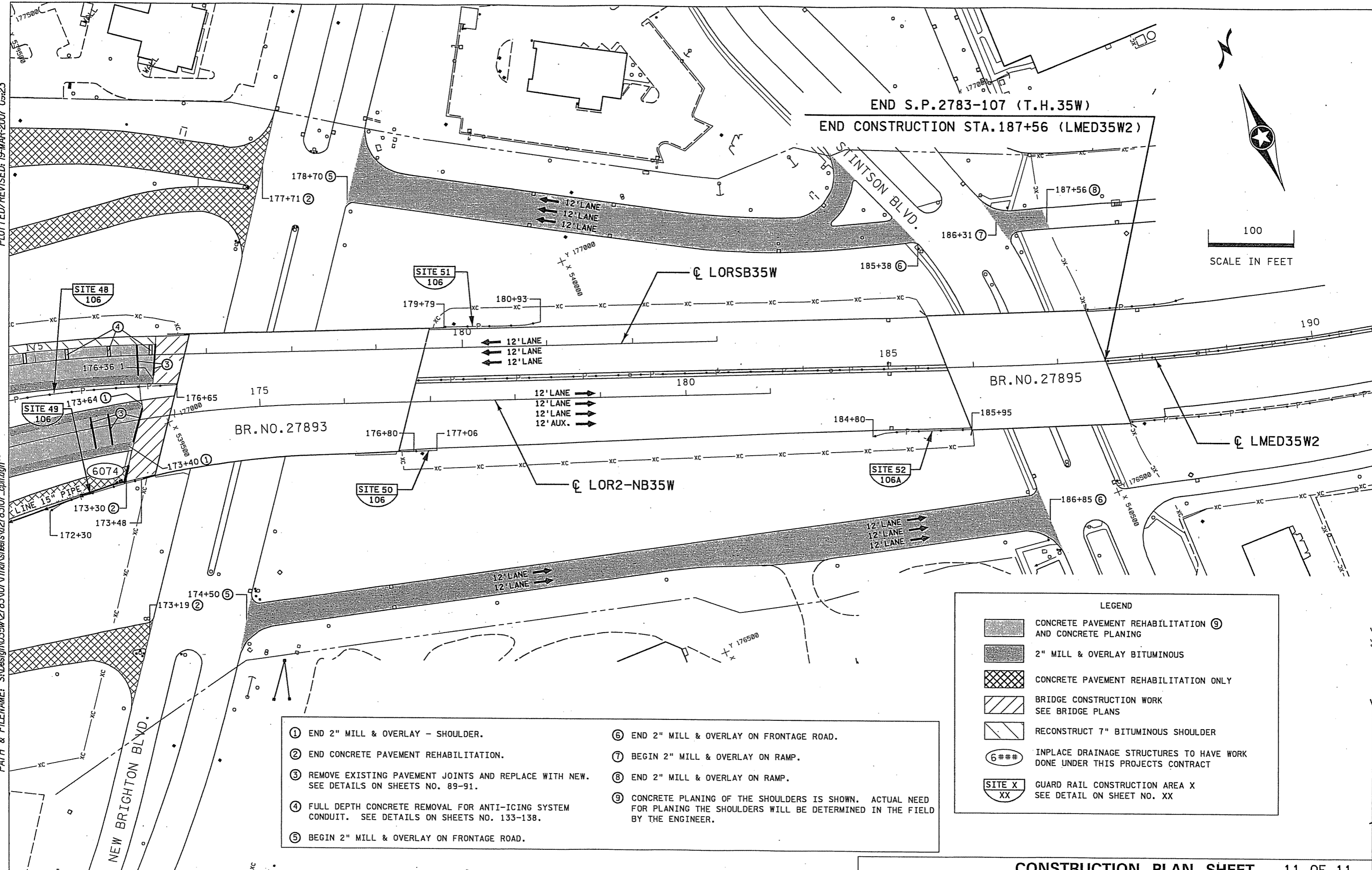
LEGEND

	CONCRETE PAVEMENT REHABILITATION ⑨ AND CONCRETE PLANING
	2" MILL & OVERLAY BITUMINOUS
	CONCRETE PAVEMENT REHABILITATION ONLY
	BRIDGE CONSTRUCTION WORK SEE BRIDGE PLANS
	RECONSTRUCT 7" BITUMINOUS SHOULDER
	INPLACE DRAINAGE STRUCTURES TO HAVE WORK DONE UNDER THIS PROJECTS CONTRACT
	GUARD RAIL CONSTRUCTION AREA X SEE DETAIL ON SHEET NO. XX



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SCALE IN FEET

- | | |
|---|--|
| ① END 2" MILL & OVERLAY - SHOULDER. | ⑥ END 2" MILL & OVERLAY ON FRONTAGE ROAD. |
| ② END CONCRETE PAVEMENT REHABILITATION. | ⑦ BEGIN 2" MILL & OVERLAY ON RAMP. |
| ③ REMOVE EXISTING PAVEMENT JOINTS AND REPLACE WITH NEW. SEE DETAILS ON SHEETS NO. 89-91. | ⑧ END 2" MILL & OVERLAY ON RAMP. |
| ④ FULL DEPTH CONCRETE REMOVAL FOR ANTI-ICING SYSTEM CONDUIT. SEE DETAILS ON SHEETS NO. 133-138. | ⑨ CONCRETE PLANING OF THE SHOULDERS IS SHOWN. ACTUAL NEED FOR PLANING THE SHOULDERS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. |
| ⑤ BEGIN 2" MILL & OVERLAY ON FRONTAGE ROAD. | |

LEGEND

	CONCRETE PAVEMENT REHABILITATION ⑨ AND CONCRETE PLANING
	2" MILL & OVERLAY BITUMINOUS
	CONCRETE PAVEMENT REHABILITATION ONLY
	BRIDGE CONSTRUCTION WORK SEE BRIDGE PLANS
	RECONSTRUCT 7" BITUMINOUS SHOULDER
	6### INPLACE DRAINAGE STRUCTURES TO HAVE WORK DONE UNDER THIS PROJECTS CONTRACT
	SITE X XX GUARD RAIL CONSTRUCTION AREA X SEE DETAIL ON SHEET NO. XX

CONSTRUCTION PLAN SHEET 11 OF 11

DRAWN BY: LJR

CHECKED BY: GP

CERTIFIED BY

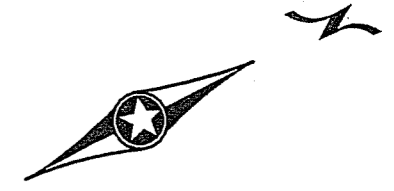
Robert M. Puleo
LICENSURE PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

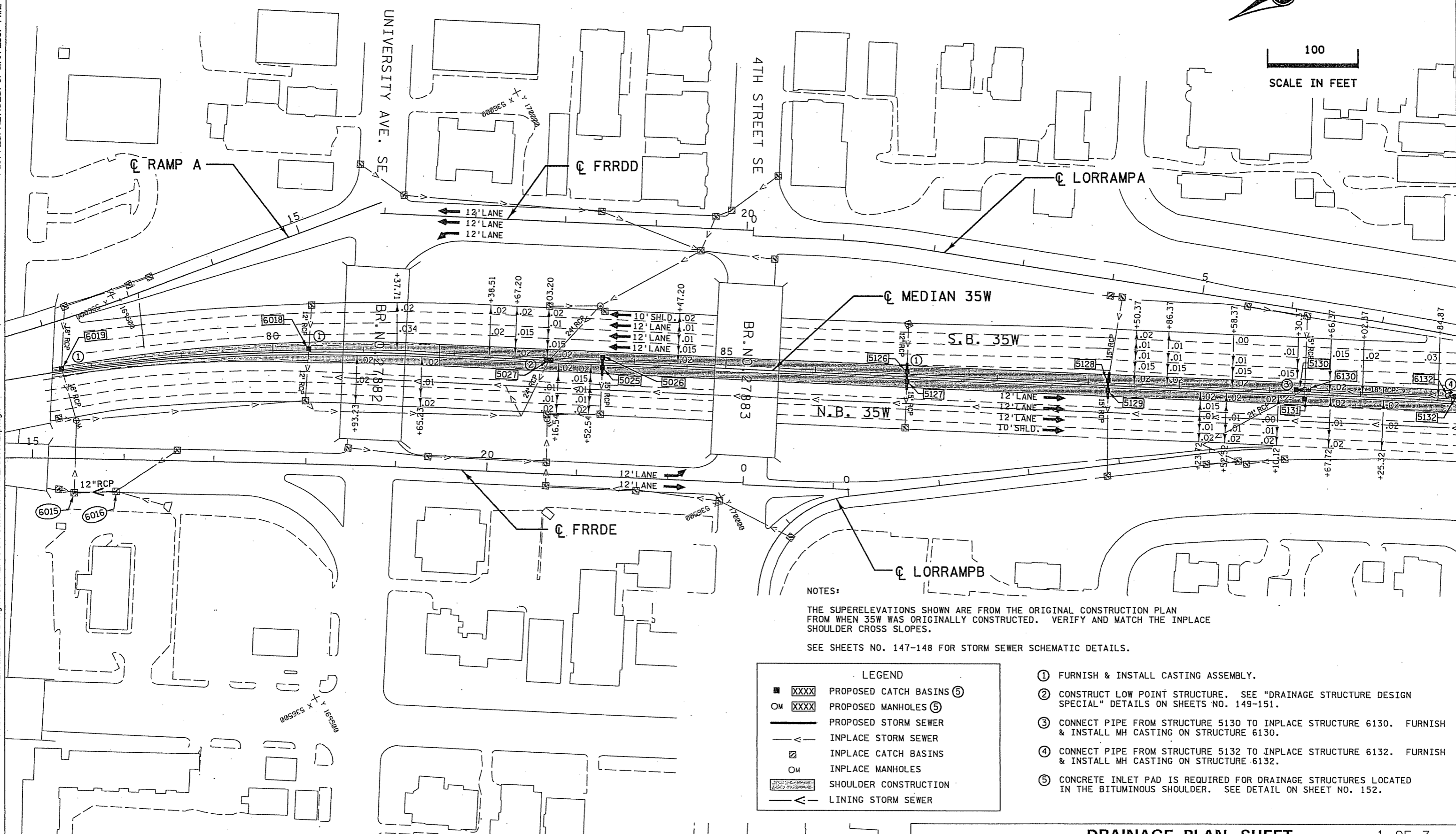
STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 76 OF 385 SHEETS

PLOTTED/REVISED: 07-MAR-2007, ...2

DISTRICT #: METRO
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SCALE IN FEET



NOTES:

THE SUPERELEVATIONS SHOWN ARE FROM THE ORIGINAL CONSTRUCTION PLAN FROM WHEN 35W WAS ORIGINALLY CONSTRUCTED. VERIFY AND MATCH THE INPLACE SHOULDER CROSS SLOPES.

SEE SHEETS NO. 147-148 FOR STORM SEWER SCHEMATIC DETAILS.

LEGEND

■	XXXX	PROPOSED CATCH BASINS ⑤
○	XXXX	PROPOSED MANHOLES ⑤
—		PROPOSED STORM SEWER
—		INPLACE STORM SEWER
■		INPLACE CATCH BASINS
○		INPLACE MANHOLES
▨		SHOULDER CONSTRUCTION
—		LINING STORM SEWER

- ① FURNISH & INSTALL CASTING ASSEMBLY.
- ② CONSTRUCT LOW POINT STRUCTURE. SEE "DRAINAGE STRUCTURE DESIGN SPECIAL" DETAILS ON SHEETS NO. 149-151.
- ③ CONNECT PIPE FROM STRUCTURE 5130 TO INPLACE STRUCTURE 6130. FURNISH & INSTALL MH CASTING ON STRUCTURE 6130.
- ④ CONNECT PIPE FROM STRUCTURE 5132 TO INPLACE STRUCTURE 6132. FURNISH & INSTALL MH CASTING ON STRUCTURE 6132.
- ⑤ CONCRETE INLET PAD IS REQUIRED FOR DRAINAGE STRUCTURES LOCATED IN THE BITUMINOUS SHOULDER. SEE DETAIL ON SHEET NO. 152.

DRAINAGE PLAN SHEET

1 OF 7

DRAWN BY: BRH

CHECKED BY: JRM

CERTIFIED BY

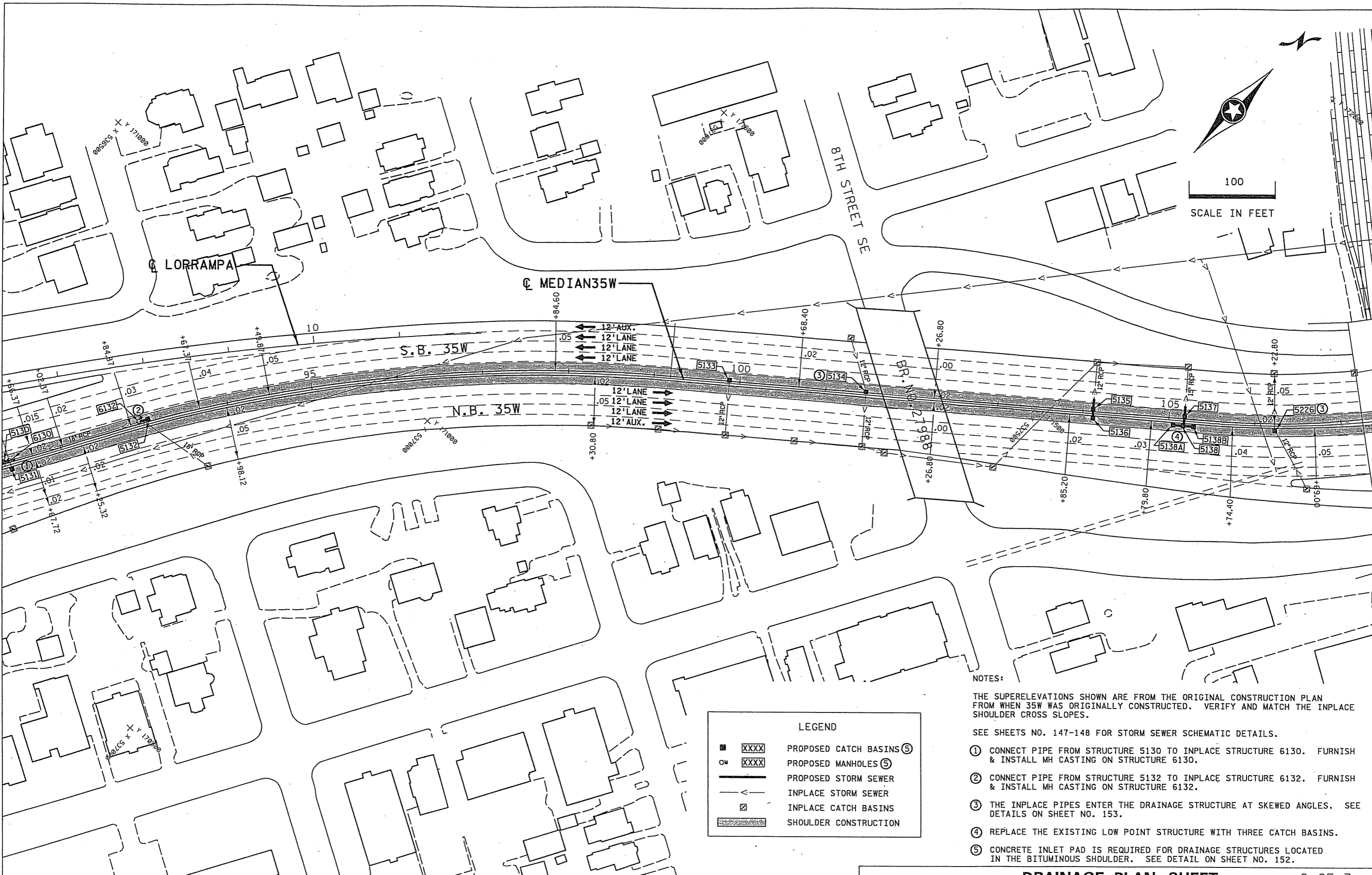
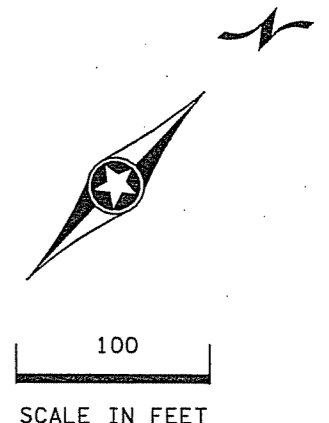
Robert M. Puleo
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 139 OF 396 SHEETS

PLOTTED/REVISED: 16-MAR-2007 10:45

DISTRICT: METRO
PLOT NAME: d2783107_dp2
PATH & FILENAME: S:\Design\035w\2783\07\Inch\sheet\1\d2783107_dp2.dgn



LEGEND	
	PROPOSED CATCH BASINS ⑤
	PROPOSED MANHOLES ⑤
	PROPOSED STORM SEWER
	INPLACE STORM SEWER
	INPLACE CATCH BASINS
	SHOULDER CONSTRUCTION

NOTES:

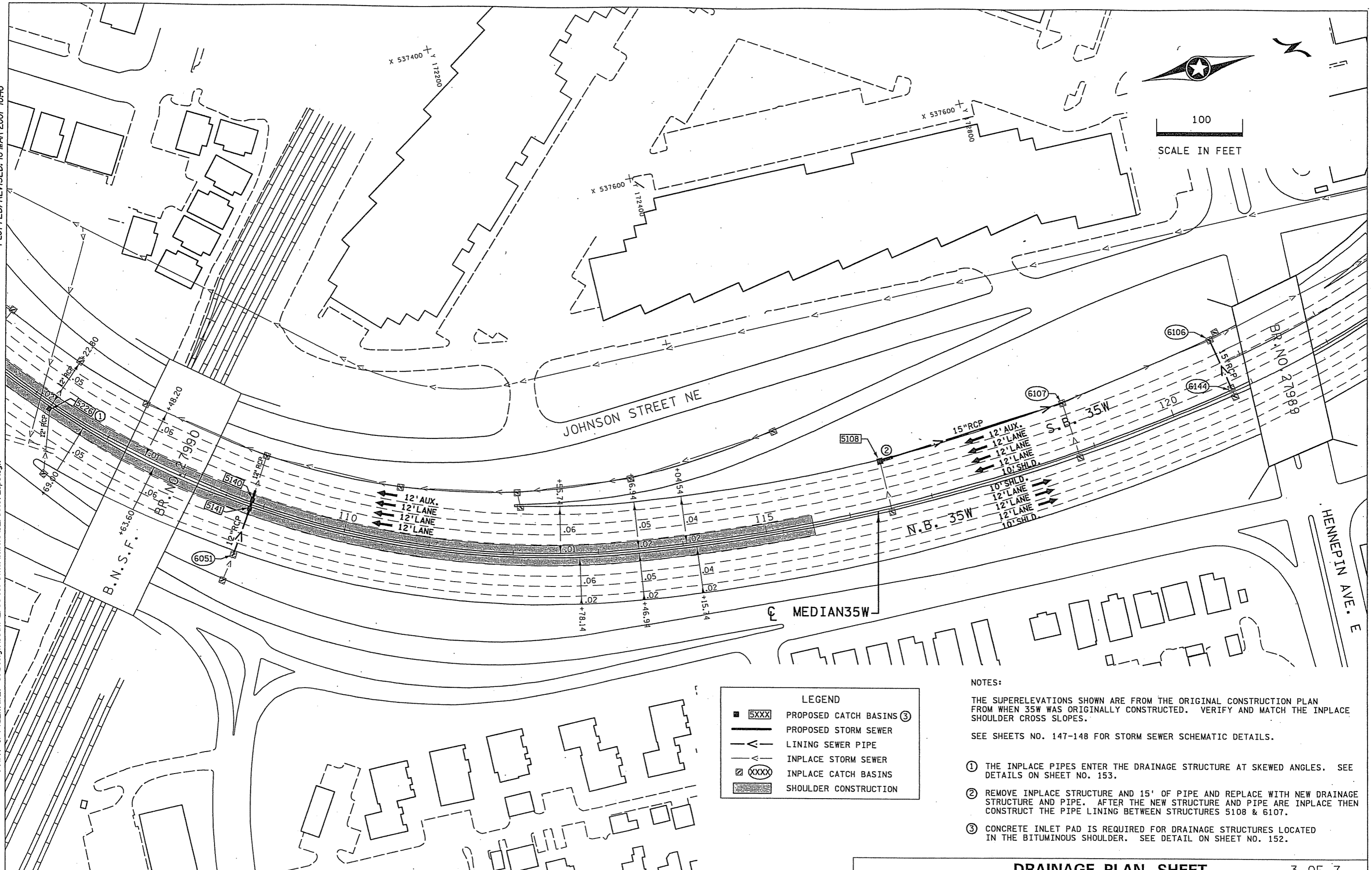
- THE SUPERELEVATIONS SHOWN ARE FROM THE ORIGINAL CONSTRUCTION PLAN FROM WHEN 35W WAS ORIGINALLY CONSTRUCTED. VERIFY AND MATCH THE INPLACE SHOULDER CROSS SLOPES.
- SEE SHEETS NO. 147-148 FOR STORM SEWER SCHEMATIC DETAILS.
- ① CONNECT PIPE FROM STRUCTURE 5130 TO INPLACE STRUCTURE 6130. FURNISH & INSTALL MH CASTING ON STRUCTURE 6130.
 - ② CONNECT PIPE FROM STRUCTURE 5132 TO INPLACE STRUCTURE 6132. FURNISH & INSTALL MH CASTING ON STRUCTURE 6132.
 - ③ THE INPLACE PIPES ENTER THE DRAINAGE STRUCTURE AT SKEWED ANGLES. SEE DETAILS ON SHEET NO. 153.
 - ④ REPLACE THE EXISTING LOW POINT STRUCTURE WITH THREE CATCH BASINS.
 - ⑤ CONCRETE INLET PAD IS REQUIRED FOR DRAINAGE STRUCTURES LOCATED IN THE BITUMINOUS SHOULDER. SEE DETAIL ON SHEET NO. 152.

DISTRICT: METRO
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 SCALE IN FEET



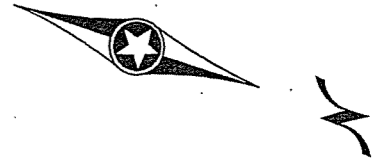
LEGEND	
■ 5XXX	PROPOSED CATCH BASINS ③
—	PROPOSED STORM SEWER
—	LINING SEWER PIPE
—	INPLACE STORM SEWER
⊠ XXXX	INPLACE CATCH BASINS
▨	SHOULDER CONSTRUCTION

NOTES:

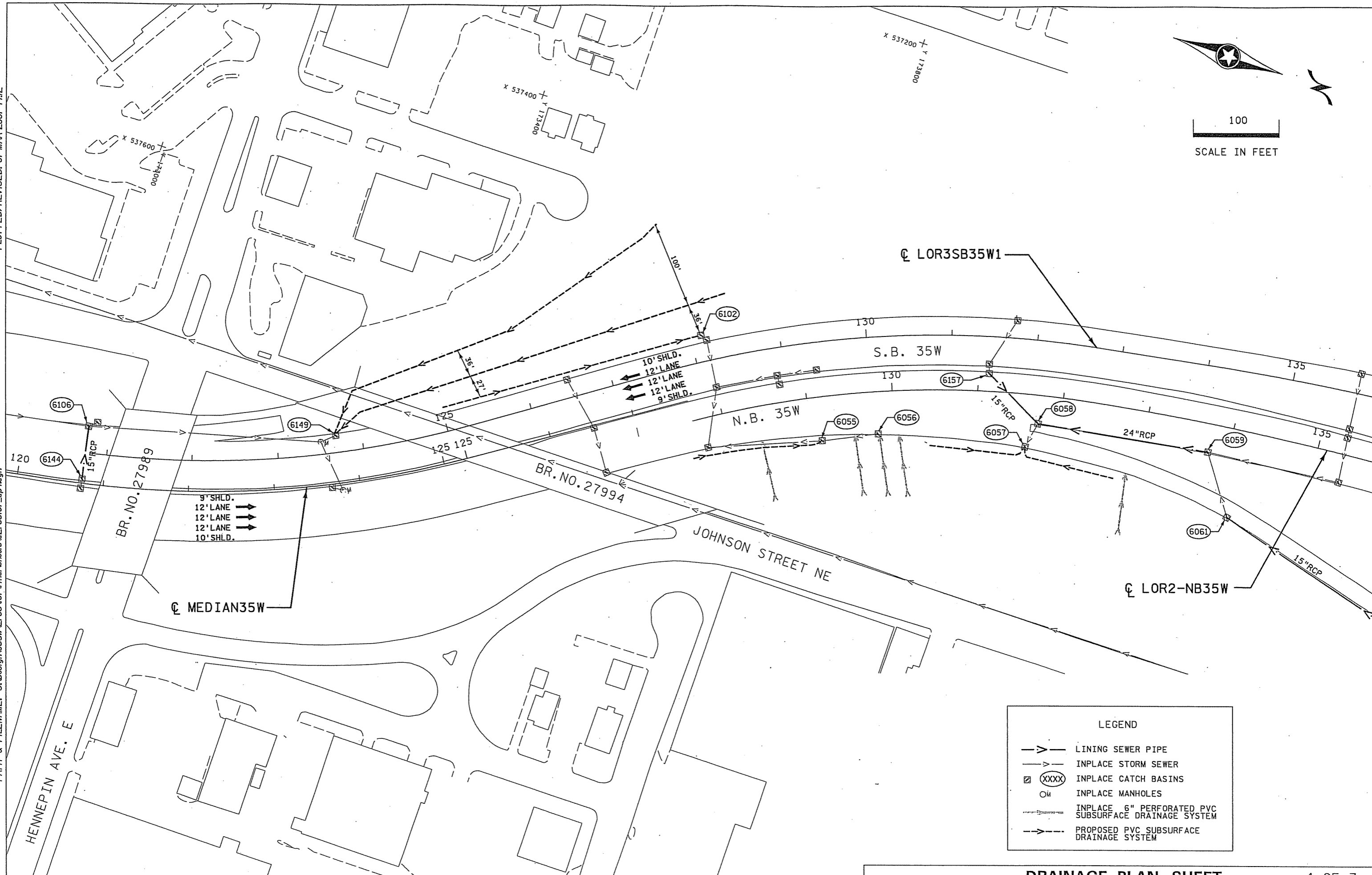
- ① THE INPLACE PIPES ENTER THE DRAINAGE STRUCTURE AT SKEWED ANGLES. SEE DETAILS ON SHEET NO. 153.
- ② REMOVE INPLACE STRUCTURE AND 15' OF PIPE AND REPLACE WITH NEW DRAINAGE STRUCTURE AND PIPE. AFTER THE NEW STRUCTURE AND PIPE ARE INPLACE THEN CONSTRUCT THE PIPE LINING BETWEEN STRUCTURES 5108 & 6107.
- ③ CONCRETE INLET PAD IS REQUIRED FOR DRAINAGE STRUCTURES LOCATED IN THE BITUMINOUS SHOULDER. SEE DETAIL ON SHEET NO. 152.

PLOTTED/REVISED: 07-MAR-2007 14:12

DISTRICT #: METRO
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SCALE IN FEET



LEGEND	
	LINING SEWER PIPE
	INPLACE STORM SEWER
	INPLACE CATCH BASINS
	INPLACE MANHOLES
	INPLACE 6" PERFORATED PVC SUBSURFACE DRAINAGE SYSTEM
	PROPOSED PVC SUBSURFACE DRAINAGE SYSTEM

DRAINAGE PLAN SHEET

DRAWN BY: LJR

CHECKED BY: JRM

CERTIFIED BY

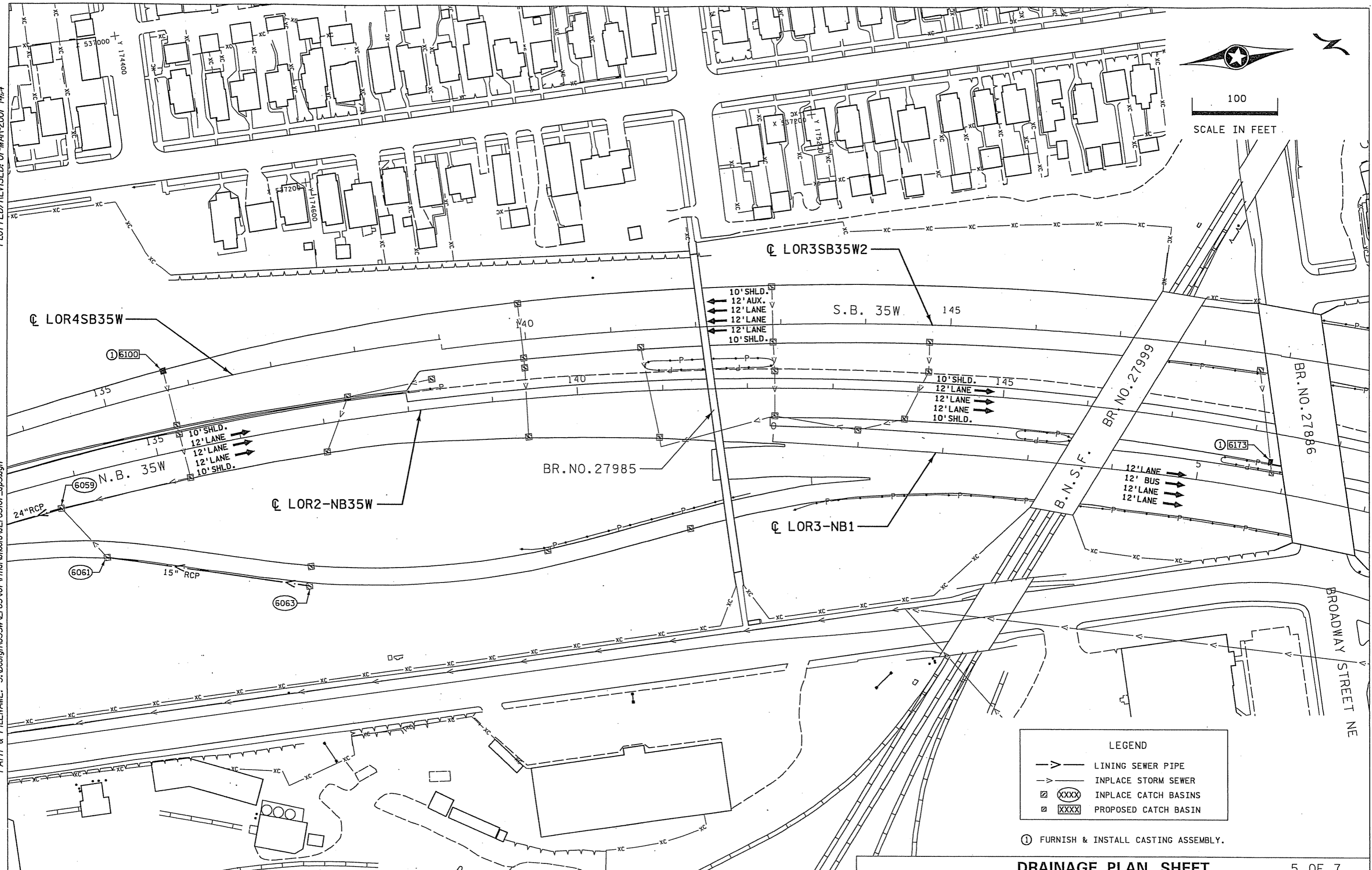
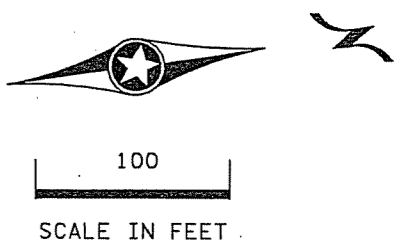
Robert M. Palko
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 142 OF 396 SHEETS

PLOTTED/REVISED: 07-MAR-2007 11:44 AM

DISTRICT #: METRO
PLOT NAME: d2783107.dps
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LEGEND	
	LINING SEWER PIPE
	INPLACE STORM SEWER
	INPLACE CATCH BASINS
	PROPOSED CATCH BASIN

① FURNISH & INSTALL CASTING ASSEMBLY.

DRAWN BY: BRH

CHECKED BY: JRM

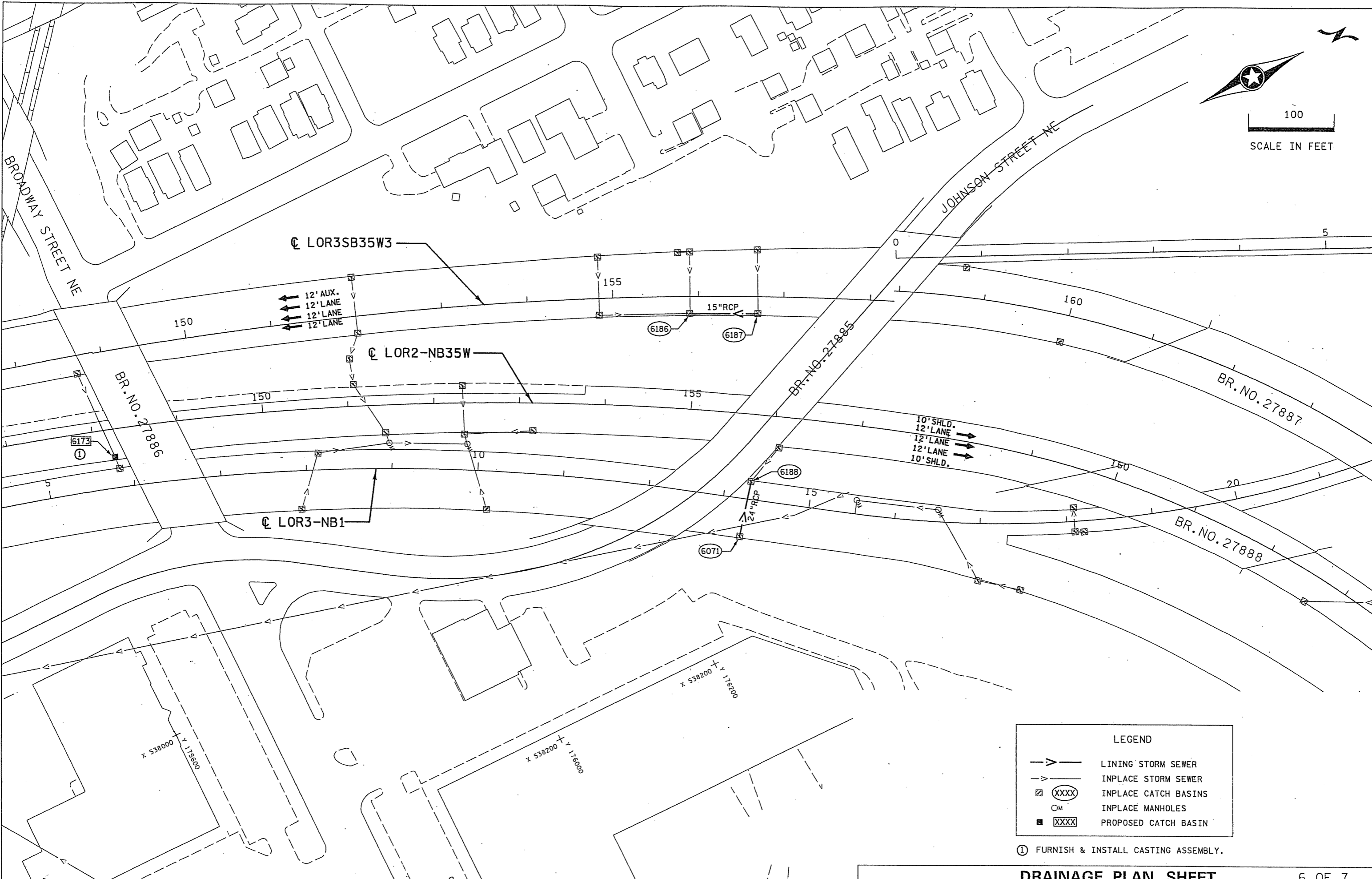
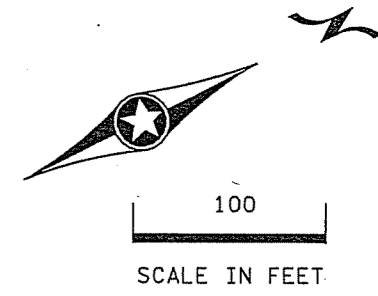
CERTIFIED BY

Robert M. Puleo
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

PLOTTED/REVISED: 07-MAR-2007 14:12

DISTRICT #: METRO
PLOT NAME: d2783107.dwg
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LEGEND	
	LINING STORM SEWER
	INPLACE STORM SEWER
	INPLACE CATCH BASINS
	INPLACE MANHOLES
	PROPOSED CATCH BASIN

① FURNISH & INSTALL CASTING ASSEMBLY.

DRAWN BY: BRH

CHECKED BY: JRM

CERTIFIED BY *Robert M. Puleo*
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

DRAINAGE PLAN SHEET 6 OF 7
STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 144 OF 396 SHEETS

PLOTTED/REVISED: 07-MAR-2007 14:12

DISTRICT #: METRO
PLOT NAME: d2783107.dpt
PATH & FILENAME: S:\Design\035w\2783107\trn\streets\d2783107.dpt.dgn



100
SCALE IN FEET

☉ LOR3-NB1

BR. NO. 27895

☉ LORSB35W

BR. NO. 27887

☉ LOR2-NB35W

BR. NO. 27888

6203

6199

6073

6150

6200

6075

6074

BR. NO. 27893

NEW BRIGHTON BLVD.

x 538400 + y 176600

x 538600 + y 176600

x 538800 + y 176600

LEGEND

- ▽— LINING SEWER PIPE
- ▽— INPLACE STORM SEWER
- ☒ (XXXX) INPLACE CATCH BASINS
- OM INPLACE MANHOLES

DRAWN BY: BRH

CHECKED BY: JRM

CERTIFIED BY

Ralph M. Puleo
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

DRAINAGE PLAN SHEET

7 OF 7

STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 145 OF 396 SHEETS

Q

STORM SEWER

STRUCT NO.	ALIGNMENT	STATION ⑩	OFFSET ⑩	CB OR MH	DESIGN	PAY HEIGHT LIN FT	CAST. ASSEMB. ① ⑮ EACH	CONC. INLET PAD ⑨ EACH	RCP ⑦		DRAINS TO	REMOVE STRUCT. NO. EACH	SALVAGE CASTING ⑥ EACH	REMOVE INP RCP LIN FT	PIPE LINING			C & G DESIGN SPECIAL ⑪ LIN FT	REMARKS
									12"	15"					12" RCP LIN FT	15" RCP LIN FT	24" RCP LIN FT		
6016	MEDIAN35W	77+62	134' RT		INPLACE						6015				43				
6019	MEDIAN35W	77+33	4' LT	CB	INPLACE		B-8	(19)					1						
6018	MEDIAN35W	80+40	4' LT	CB	INPLACE		B-8	(19)					1						
5027	MEDIAN35W	83+05.5	CENTERLINE	CB	SPECIAL (5)	1 EACH	(16)	1			INP. PIPE	6027							
5026	MEDIAN35W	83+66	2.44' LT	CB	C, G, H	3.7	B-8	1	4		5025	6026	1						
5025	MEDIAN35W	83+66	2.44' RT	CB	F (2)(4)	4.2	B-8	1	6(17)		INP. PIPE	6025	1						
(3)	MEDIAN35W	87+00	4' LT						6(17)										
5126	MEDIAN35W	87+00	2.44' LT	CB	F (2)(4)	4.5	B-8	1	4		5126								
5127	MEDIAN35W	87+00	2.44' RT	CB	F (2)(4)	4.8	B-8	1	6(17)		INP. PIPE	6126	1						
(3)	MEDIAN35W	89+22	4' LT						6(17)										
5128	MEDIAN35W	89+22	2.44' LT	CB	F (2)(4)	4.3	B-8	1	4		5128	6128	1						
5129	MEDIAN35W	89+22	2.44' RT	CB	F (2)(4)	4.4	B-8	1	6(17)		INP. PIPE	6129	1						
6130	MEDIAN35W	91+40	4' LT	MH	INPLACE		A-7D	1					1						
5130	MEDIAN35W	91+35	2.44' LT	CB	C, G, H	3.7	B-8	1	4(18)		6130								
5131	MEDIAN35W	91+40	2.44' RT	CB	C, G, H	3.7	B-8	1			INP. PIPE	6131	1						
6132	MEDIAN35W	92+95	4' LT	MH	INPLACE		A-7D	1					1						
5132	MEDIAN35W	93+00	2.44' LT	CB	C, G, H	3.7	B-8	1	4(18)		6132								
5133	MEDIAN35W	99+88	2.44' LT	CB	C OR G	4.5	B-8	1			INP. PIPE	6133	1						
5134	MEDIAN35W	101+48	3.55' LT	CB	54-4020	4.7	B-8	1			INP. PIPE	6134	1						
5135	MEDIAN35W	104+12	2.44' LT	CB	F (2)(4)	4.6	B-8	1	6(17)		INP. PIPE	6135	1						
5136	MEDIAN35W	104+12	2.44' RT	CB	C, G, H	3.7	B-8	1	4		5135	6136	1						
5137	MEDIAN35W	105+18	2.44' RT	CB	F (2)(4)	4.1	B-8	1	6(17)		INP. PIPE	6137	1						
5138	MEDIAN35W	105+18	2.44' LT	CB	F (2)(4)	4.1	B-8	1	4		5137	6138	1						
5138A	MEDIAN35W	105+13	2.44' LT	CB	C, G, H	3.7	B-8	1	4		5138								
5138B	MEDIAN35W	105+23	2.44' LT	CB	C, G, H	3.7	B-8	1	4		5138								
5226	MEDIAN35W	106+23	2.44' RT	CB	72-4020	3.2	B-8	1			INP. PIPE	6226	1						
5140	MEDIAN35W	108+85	2.44' LT	CB	F (2)(4)	4.4	B-8	1	6(17)		INP. PIPE	6140	1						
(3)	MEDIAN35W	108+85	4' RT						6(17)		5141								
5141	MEDIAN35W	108+85	2.44' RT	CB	F (2)(4)	4.3	B-8	1	4		5140	6141	1						
6051	MEDIAN35W	108+90	65' RT		INPLACE						5141				59				
5108	MEDIAN35W	116+48	57' LT	CB	C OR G	4.5	D-3		17		6107	6108	1	15 (8)		223			
6144	MEDIAN35W	120+75	4' LT		INPLACE						6106					63			
6157	LOR2-NB35W	131+12	21' LT		INPLACE						6058					82			
6059	LOR2-NB35W	133+75	33' RT		INPLACE						6058						203		
6063	LOR2-NB35W	136+45	185' RT		INPLACE						6061					248			
6100	LOR3SB35W1	135+74	23' LT	CB	INPLACE		D-3						1						
6173	LOR3SB35W2	148+23	33' RT		INPLACE		D-3						1					14	
6187	LOR3SB35W3	156+67	20' RT		INPLACE						6186					80			
6071	LOR3-NB1	13+25	45' RT		INPLACE						6188						66		
6199	LOR2-NB35W	163+46	21' LT		INPLACE						6200					105			
6200	LOR2-NB35W	162+62	32' RT		INPLACE						6150					128			(12)
6073	LOR2-NB35W	167+20	33' RT		INPLACE						6203					90			(13)
6074	LOR2-NB35W	173+30	70' RT		INPLACE						6075					217			
TOTALS:					72-4020	3.2	27	22 (14)	52	59		18	23	15	102	1236	269	14	
					54-4020	4.7													
					F	43.7	B-8	22											
					C OR G	9.0	D-3	3											
					C, G, OR H	25.9	A-7D	2											
					SPECIAL	1	EACH												

- ① FURNISH AND INSTALL.
- ② USE TYPE B CONE.
- ③ EXTEND INPLACE PIPE AND CONNECT TO REPLACEMENT STRUCTURE.
- ④ OTHER STRUCTURE DESIGNS MAY BE USED WITH THE APPROVAL OF THE ENGINEER. PAYMENT WILL BE MADE UNDER THE SPECIFIED STRUCTURE TYPE REGARDLESS IF AN ALTERNATE DESIGN TYPE STRUCTURE IS USED.
- ⑤ SEE DETAILS ON SHEETS NO. 149-151.
- ⑥ GRATE ONLY. SEE SPECIAL PROVISIONS. INCLUDES REMOVAL OF INPLACE FRAME.
- ⑦ DESIGN 3006. CLASS II PIPE.

- ⑧ REMOVE AND REPLACE FIRST 15' OF INPLACE PIPE, THEN LINE ENTIRE PIPE.
- ⑨ SEE SHEET NO. 152 FOR INLET PAD DESIGNS.
- ⑩ ALL LOCATIONS ARE TO CENTER OF CASTING.
- ⑪ SEE SHEET NO. 154A FOR CURB AND GUTTER DESIGN SPECIAL.
- ⑫ STORM DRAIN INLET PROTECTION REQUIRED AT STRUCT. 6150. SEE SHEET NO. 51 FOR STANDARD PLAN. INCIDENTAL TO PIPE LINING.
- ⑬ STORM DRAIN INLET PROTECTION REQUIRED AT STRUCT. 6203. SEE SHEET NO. 51 FOR STANDARD PLAN. INCIDENTAL TO PIPE LINING.

- ⑭ SEE SHEET NO. 152 FOR PAY QUANTITIES.
- ⑮ SEE SHEET NO. 153 FOR CASTING TABULATION.
- ⑯ THE CASTINGS REQUIRED ARE INCLUDED IN THE PAYMENT FOR THE STRUCTURE.
- ⑰ CONNECT TO EXISTING STORM SEWER. SEE DETAIL ON SHEET NO. 153.
- ⑱ CONNECT INTO EXISTING DRAINAGE STRUCTURE.
- ⑲ SEE SHEET NO. 152 FOR PAVEMENT REINFORCEMENT AROUND CASTING.

STORM SEWER TABULATION

DRAWN BY: JRM

CHECKED BY: LJR

CERTIFIED BY

R. M. P. R.
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03/08/07

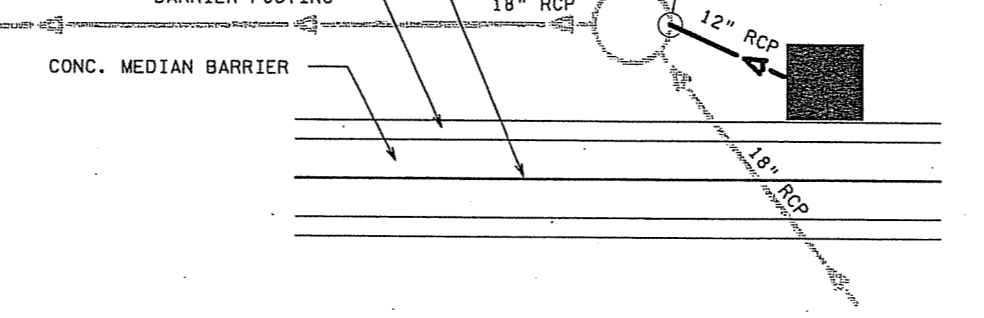
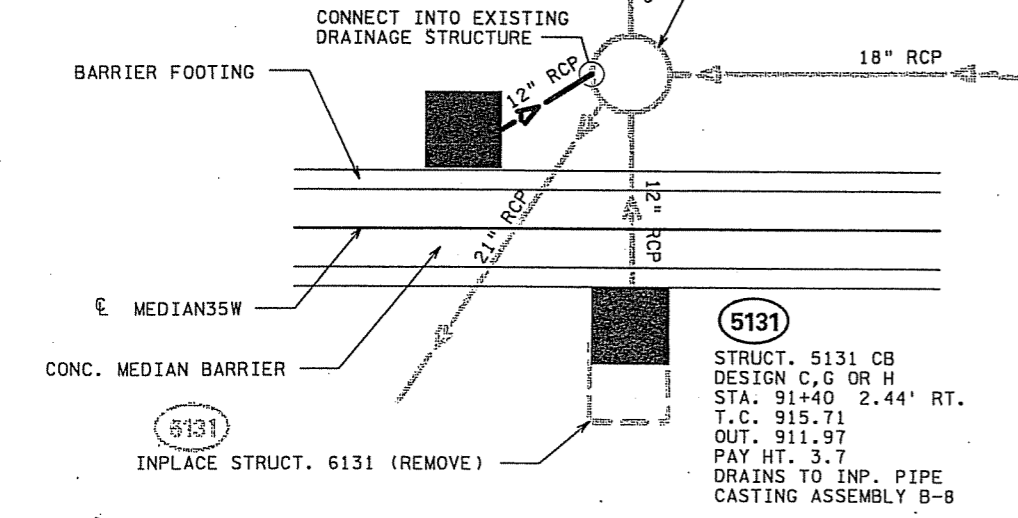
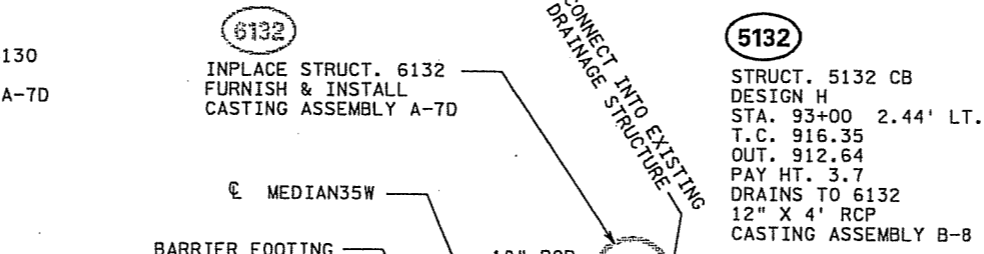
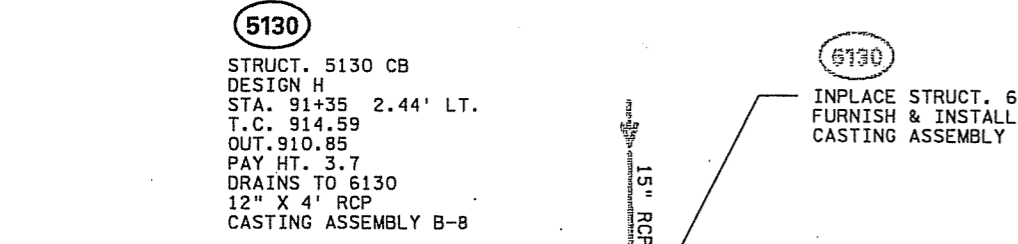
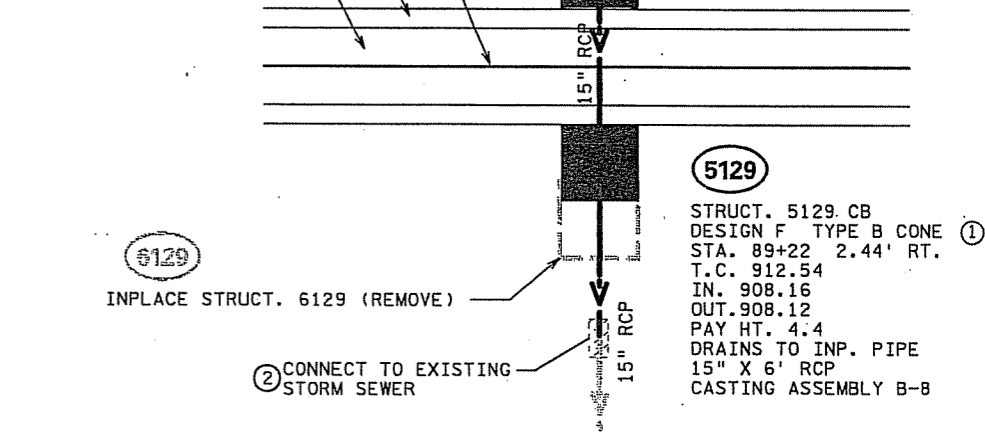
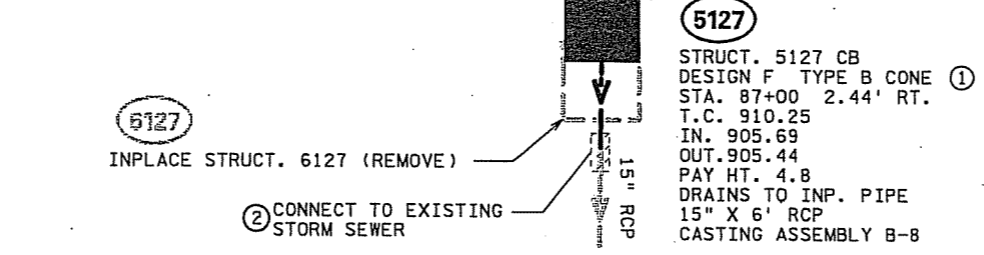
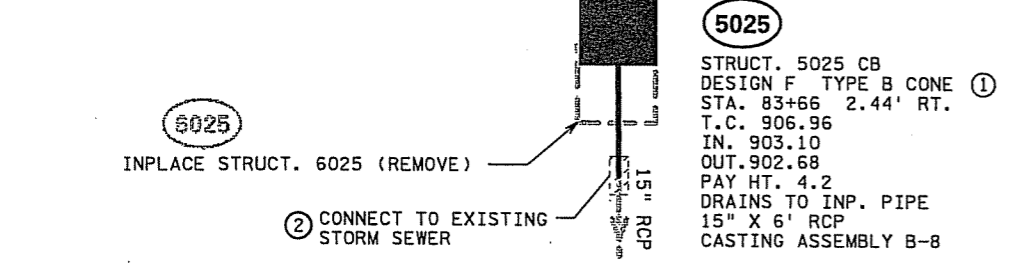
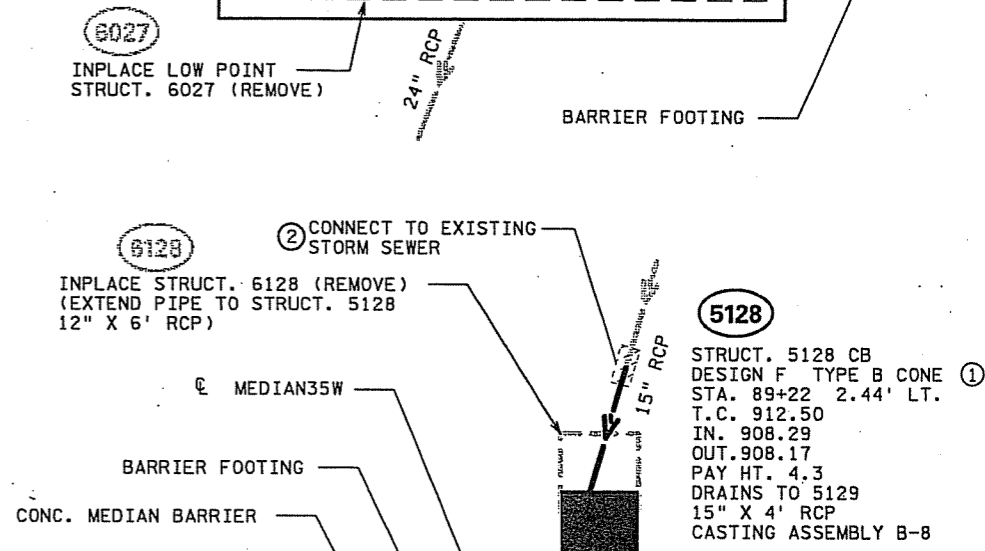
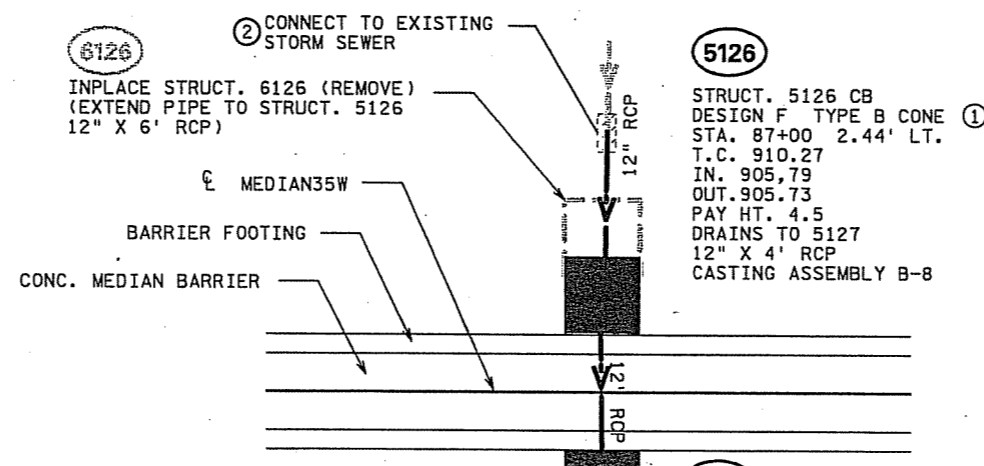
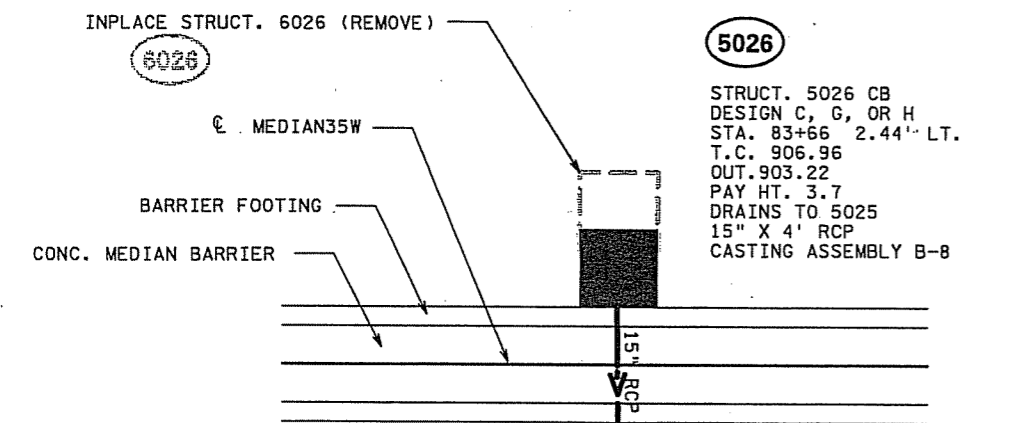
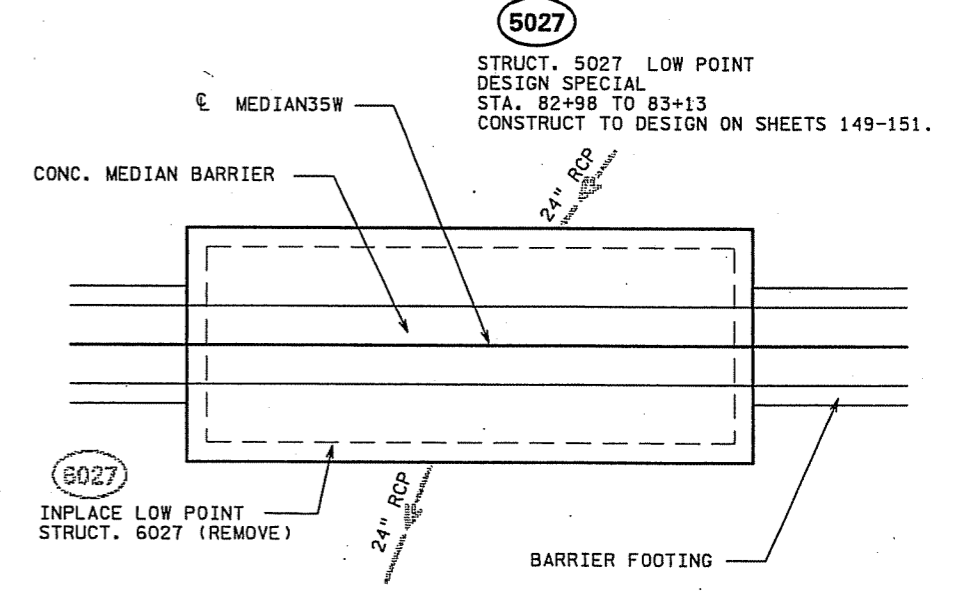
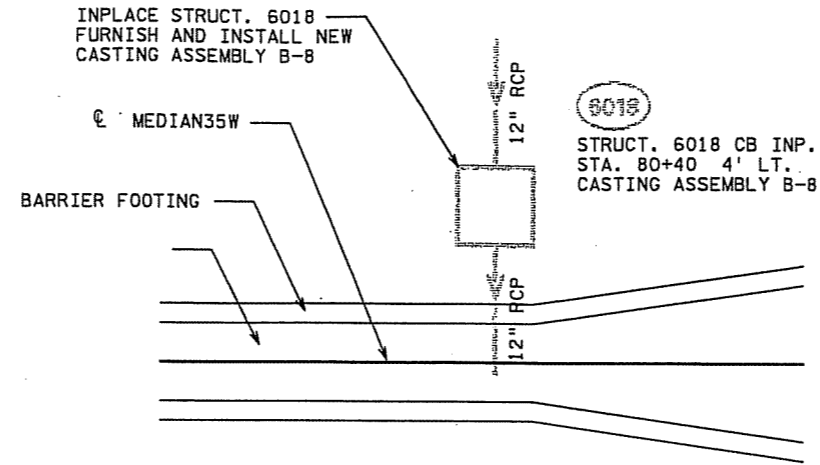
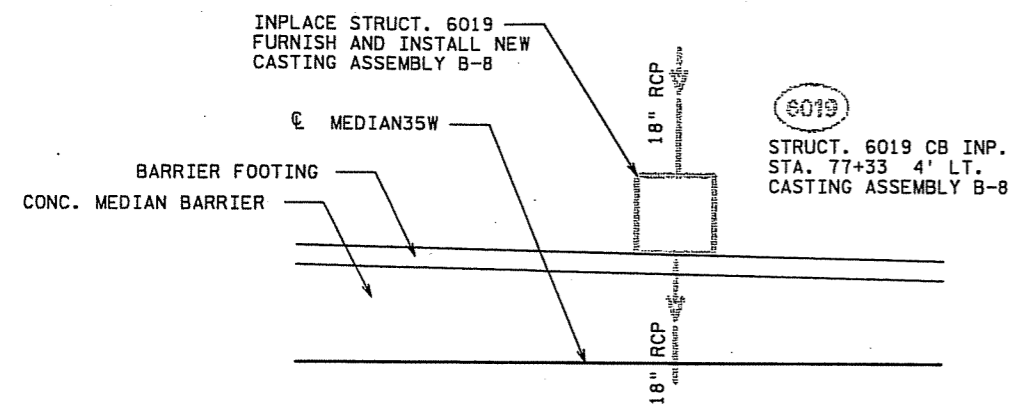
STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 146 OF 396 SHEETS

PLOTTED/REVISED: 21-MAR-2007 10:09

DISTRICT: METRO
PLOT NAME: 02783107.drl
PATH & FILENAME: S:\Design\035W\2783107\In\Sheet\02783107.drl

PLOTTED/REVISED: 07-MAR-2007 08:09

DISTRICT: METRO
PLOT NAME: d2783107.drl
PATH & FILENAME: S:\Design\035w\2783107\Inplace\sheet\42783107.drl.dgn



NOTES:
- ALL LOCATIONS ARE TO CENTER OF CASTING.
- MATCH EXISTING PIPE GRADES.
- SEE DETAILS ON SHEET NO. 153.

- ① OTHER STRUCTURE DESIGNS MAY BE USED WITH THE APPROVAL OF THE ENGINEER. PAYMENT WILL BE MADE UNDER THE SPECIFIED STRUCTURE TYPE REGARDLESS IF AN ALTERNATE DESIGN TYPE STRUCTURE IS USED.
- ② SEE DETAIL ON SHEET NO. 153.

DRAWN BY: JRM CHECKED BY: BRH CERTIFIED BY: *Robert M. Palko* LIC. NO. 26530 DATE 03/08/07

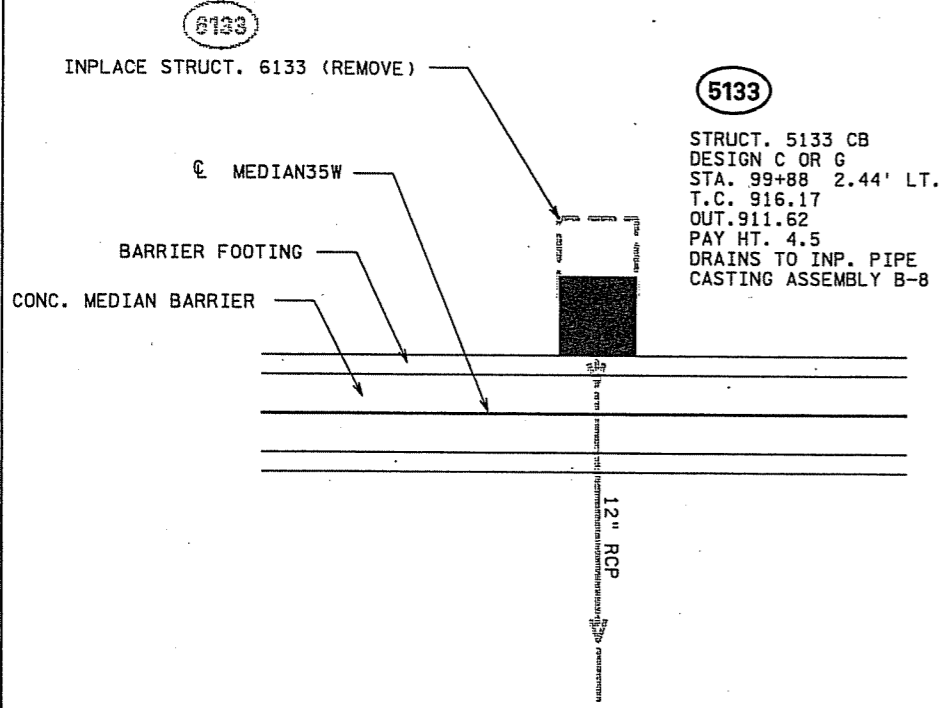
STORM SEWER

1 OF 2

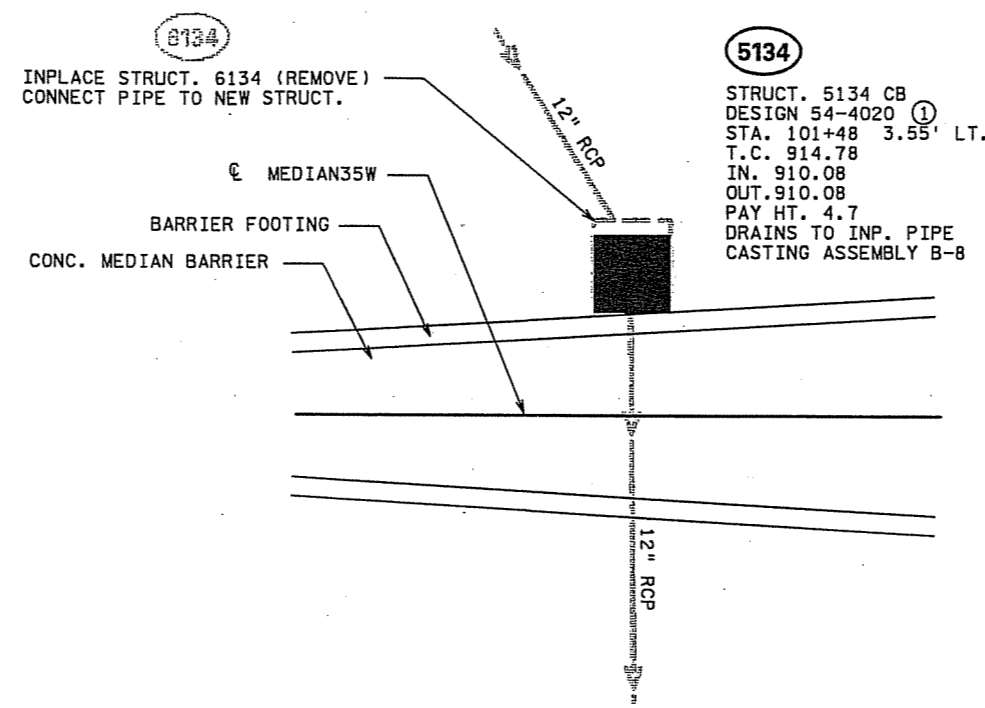
STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 147 OF 396 SHEETS

PLOTTED/REVISED: 07-MAR-2007 08:42

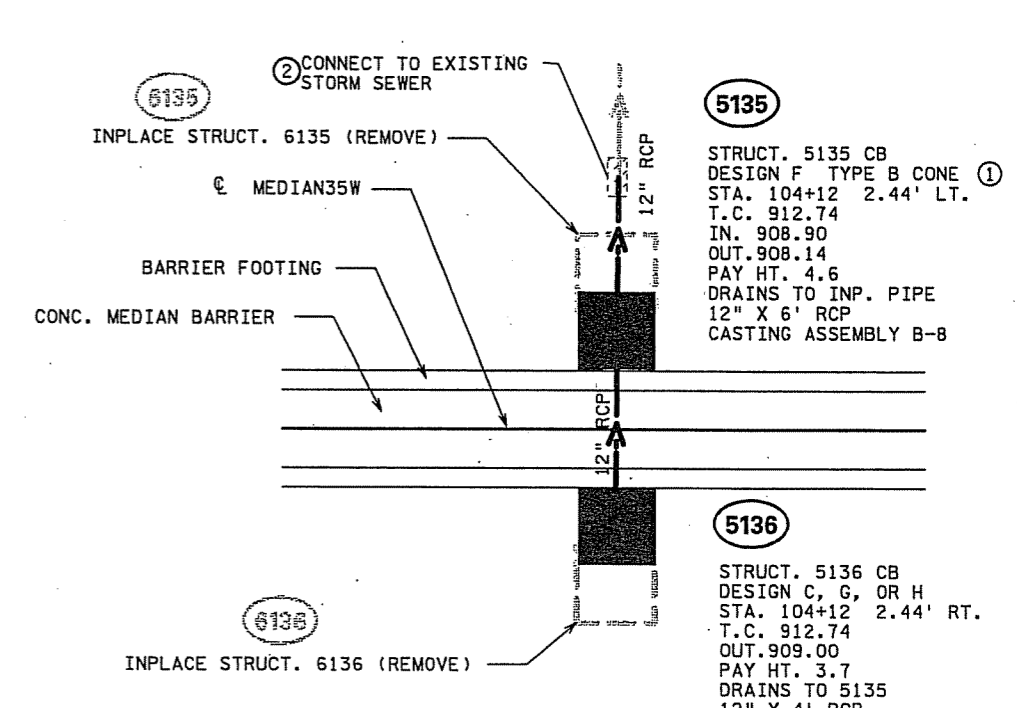
DISTRICT: METRO
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PATH & FILENAME: S:\Design\035w\2783107\In\Sheets\2783107.drl



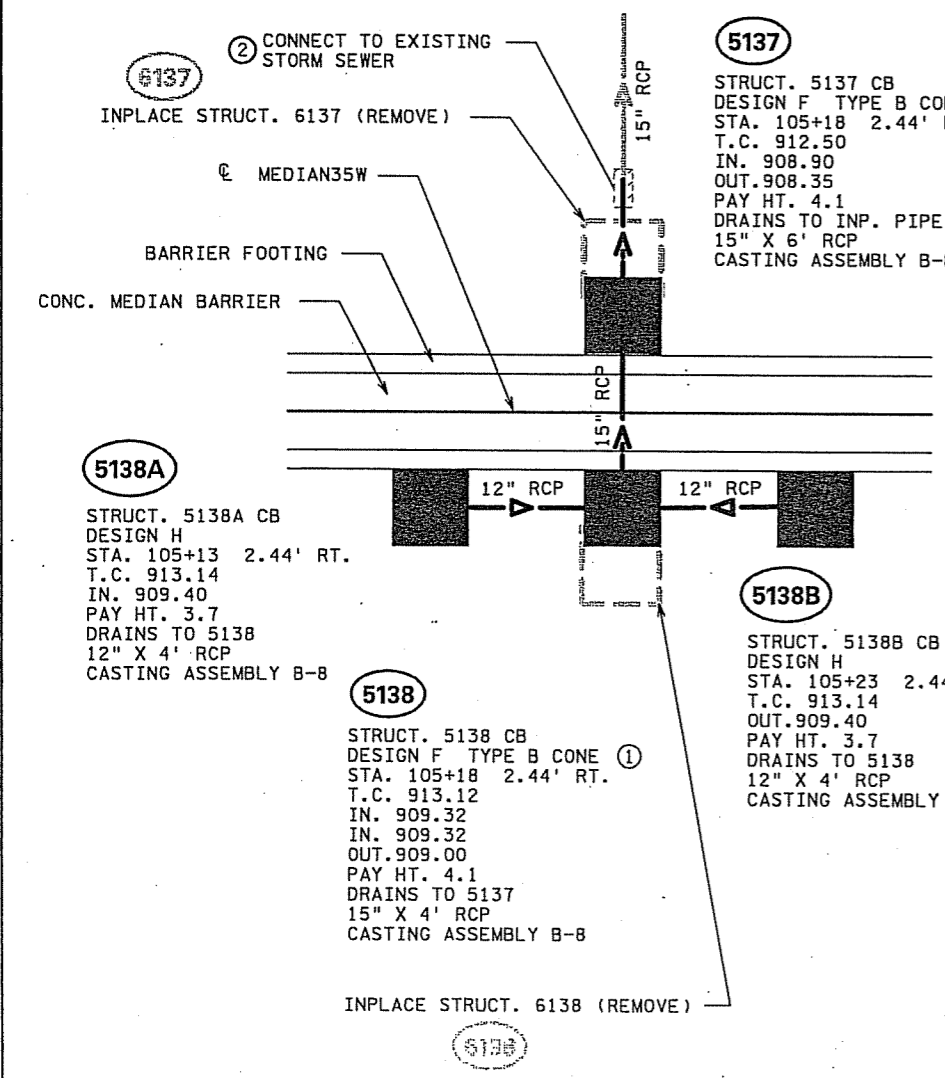
5133
 STRUCT. 5133 CB
 DESIGN C OR G
 STA. 99+88 2.44' LT.
 T.C. 916.17
 OUT. 911.62
 PAY HT. 4.5
 DRAINS TO INP. PIPE
 CASTING ASSEMBLY B-8



5134
 STRUCT. 5134 CB
 DESIGN 54-4020
 STA. 101+48 3.55' LT.
 T.C. 914.78
 IN. 910.08
 OUT. 910.08
 PAY HT. 4.7
 DRAINS TO INP. PIPE
 CASTING ASSEMBLY B-8



5135
 STRUCT. 5135 CB
 DESIGN F TYPE B CONE
 STA. 104+12 2.44' LT.
 T.C. 912.74
 IN. 908.90
 OUT. 908.14
 PAY HT. 4.6
 DRAINS TO INP. PIPE
 12" X 6' RCP
 CASTING ASSEMBLY B-8

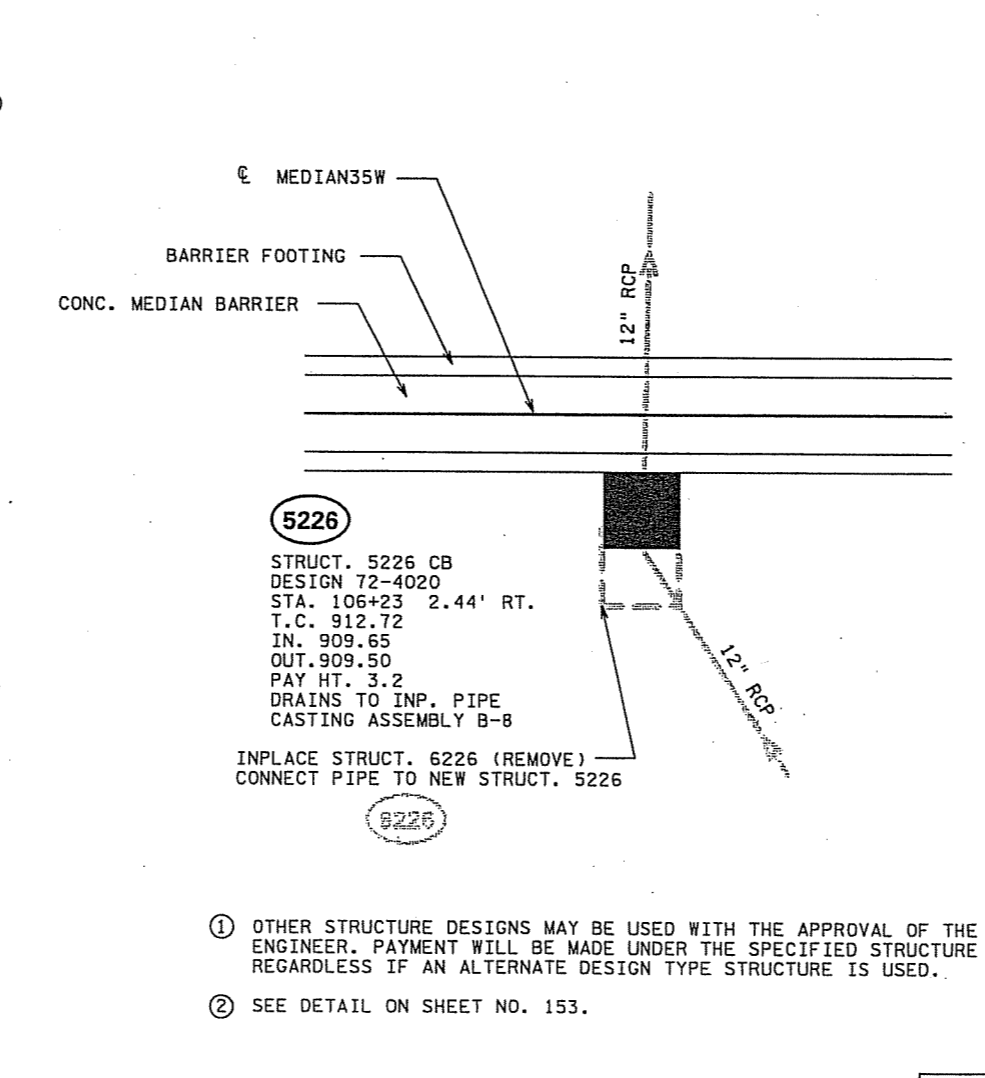


5137
 STRUCT. 5137 CB
 DESIGN F TYPE B CONE
 STA. 105+18 2.44' LT.
 T.C. 912.50
 IN. 908.90
 OUT. 908.35
 PAY HT. 4.1
 DRAINS TO INP. PIPE
 15" X 6' RCP
 CASTING ASSEMBLY B-8

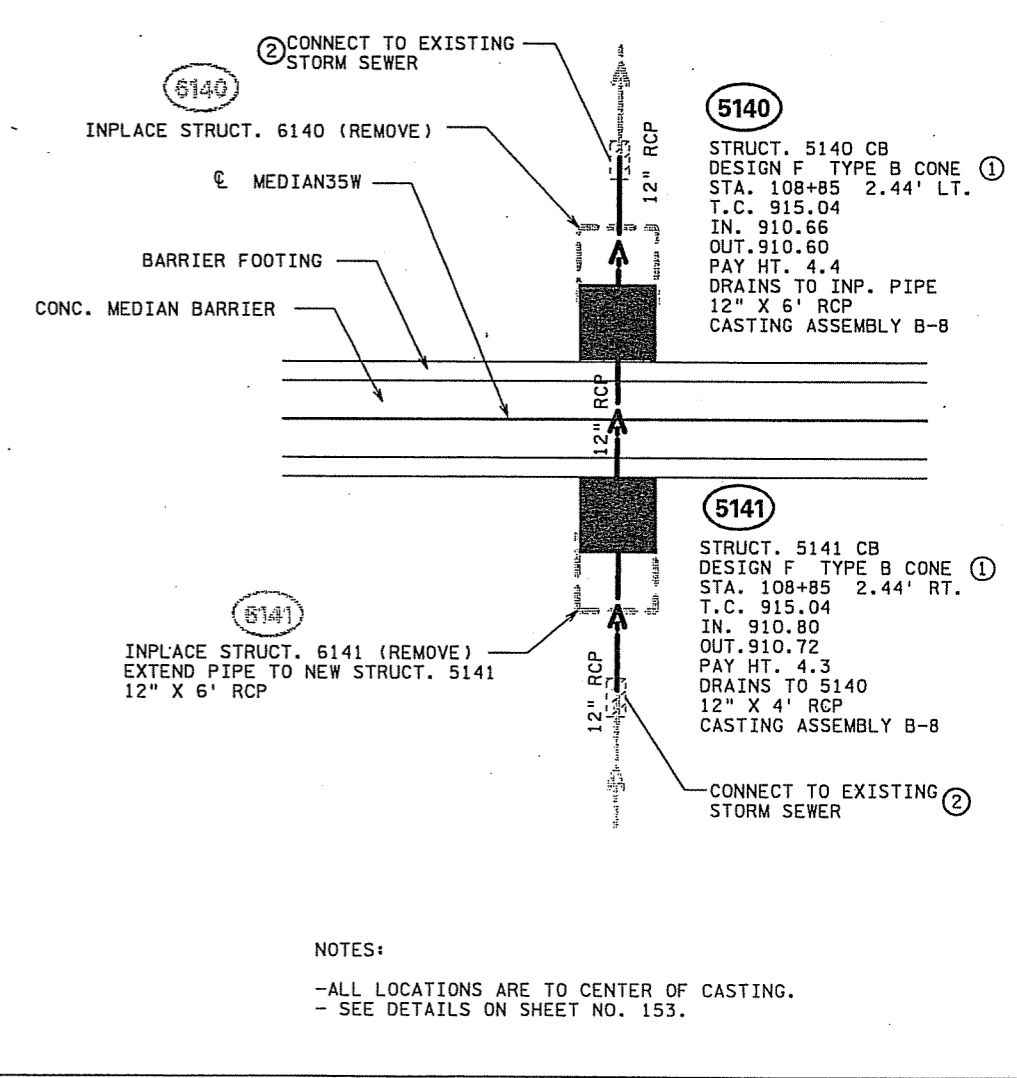
5138A
 STRUCT. 5138A CB
 DESIGN H
 STA. 105+13 2.44' RT.
 T.C. 913.14
 IN. 909.40
 PAY HT. 3.7
 DRAINS TO 5138
 12" X 4' RCP
 CASTING ASSEMBLY B-8

5138
 STRUCT. 5138 CB
 DESIGN F TYPE B CONE
 STA. 105+18 2.44' RT.
 T.C. 913.12
 IN. 909.32
 IN. 909.32
 OUT. 909.00
 PAY HT. 4.1
 DRAINS TO 5137
 15" X 4' RCP
 CASTING ASSEMBLY B-8

5138B
 STRUCT. 5138B CB
 DESIGN H
 STA. 105+23 2.44' RT.
 T.C. 913.14
 OUT. 909.40
 PAY HT. 3.7
 DRAINS TO 5138
 12" X 4' RCP
 CASTING ASSEMBLY B-8



5226
 STRUCT. 5226 CB
 DESIGN 72-4020
 STA. 106+23 2.44' RT.
 T.C. 912.72
 IN. 909.65
 OUT. 909.50
 PAY HT. 3.2
 DRAINS TO INP. PIPE
 CASTING ASSEMBLY B-8



5140
 STRUCT. 5140 CB
 DESIGN F TYPE B CONE
 STA. 108+85 2.44' LT.
 T.C. 915.04
 IN. 910.66
 OUT. 910.60
 PAY HT. 4.4
 DRAINS TO INP. PIPE
 12" X 6' RCP
 CASTING ASSEMBLY B-8

5141
 STRUCT. 5141 CB
 DESIGN F TYPE B CONE
 STA. 108+85 2.44' RT.
 T.C. 915.04
 IN. 910.80
 OUT. 910.72
 PAY HT. 4.3
 DRAINS TO 5140
 12" X 4' RCP
 CASTING ASSEMBLY B-8

- ① OTHER STRUCTURE DESIGNS MAY BE USED WITH THE APPROVAL OF THE ENGINEER. PAYMENT WILL BE MADE UNDER THE SPECIFIED STRUCTURE TYPE REGARDLESS IF AN ALTERNATE DESIGN TYPE STRUCTURE IS USED.
- ② SEE DETAIL ON SHEET NO. 153.

NOTES:
 -ALL LOCATIONS ARE TO CENTER OF CASTING.
 - SEE DETAILS ON SHEET NO. 153.

DRAWN BY: JRM

CHECKED BY: BRH

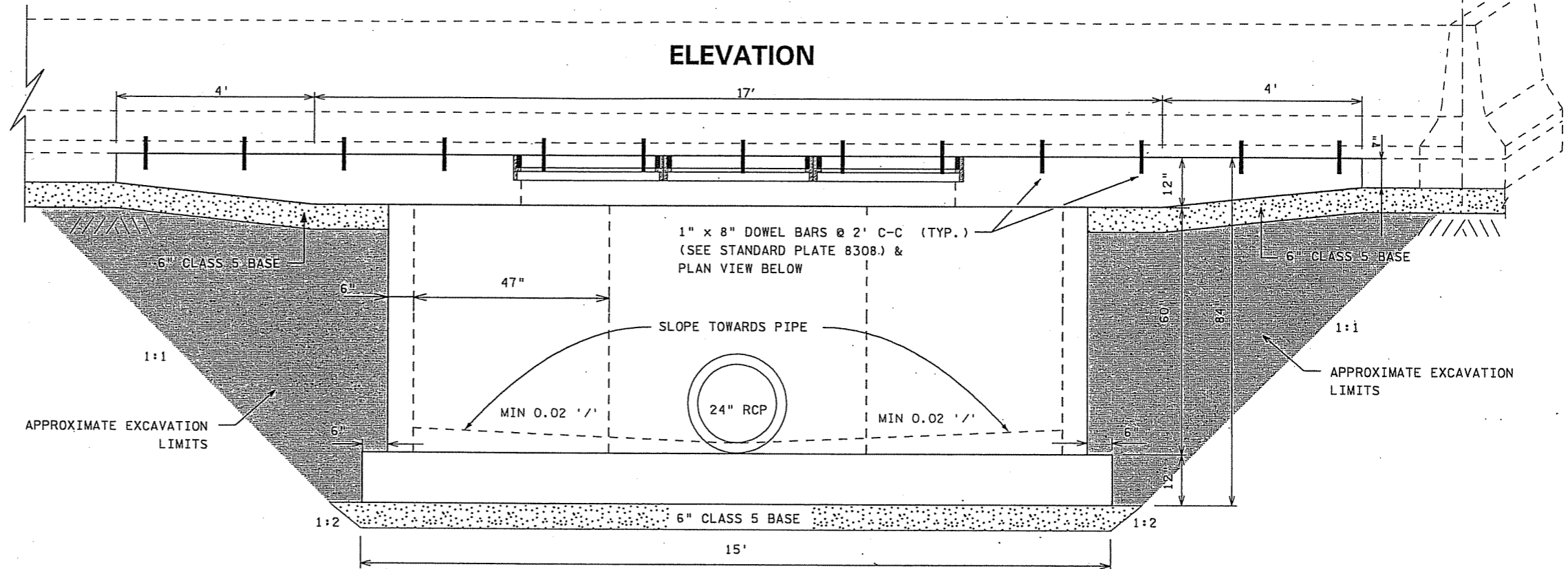
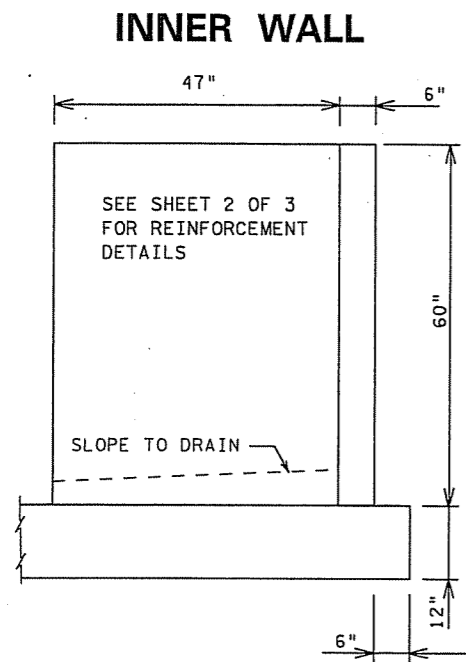
CERTIFIED BY

R. P. P. P.
 LICENSED PROFESSIONAL ENGINEER

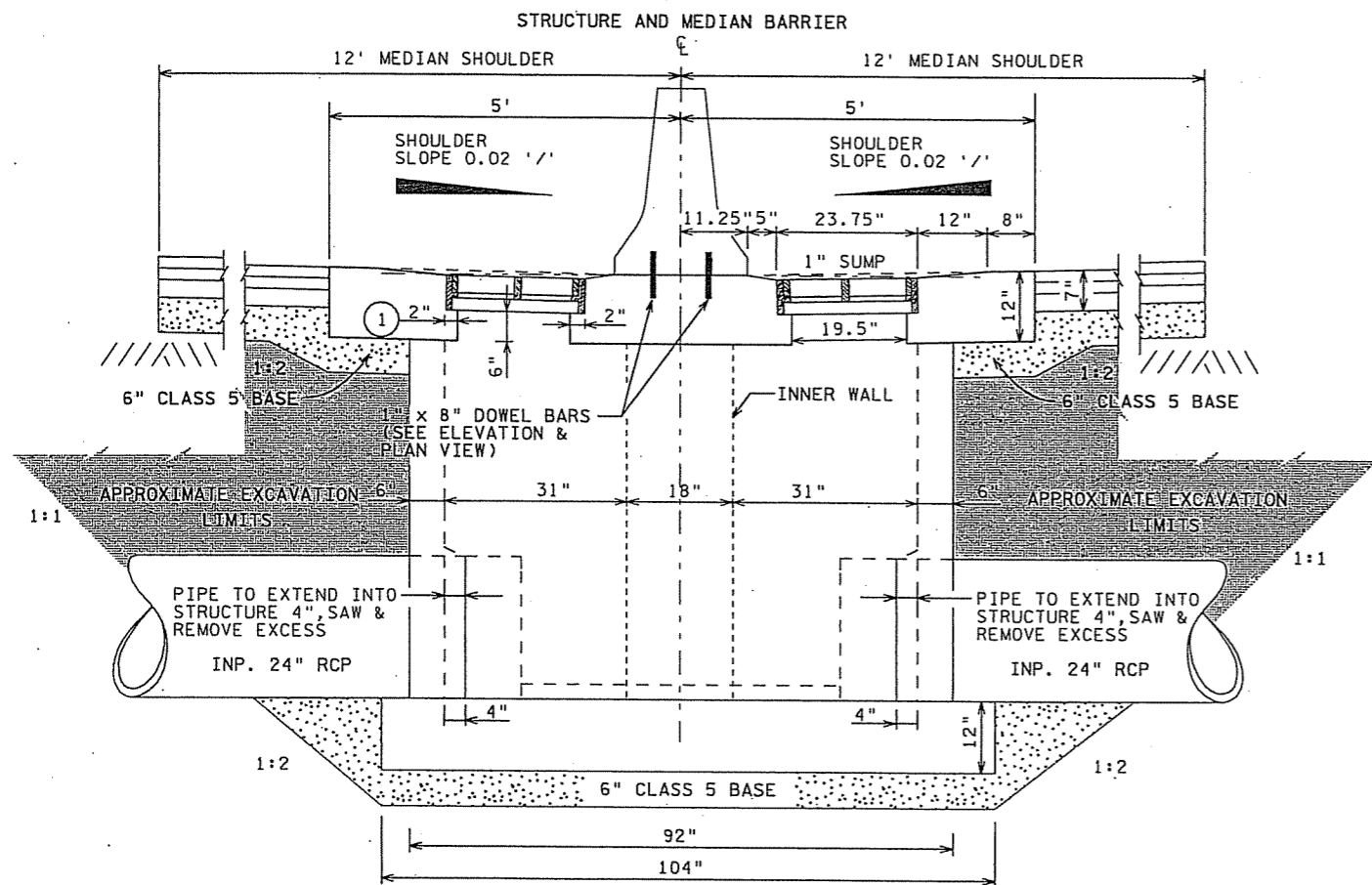
LIC. NO. 26530 DATE 03/08/07

LOW POINT STRUCTURE - DRAINAGE STRUCTURE DESIGN SPECIAL (NO. 5027)

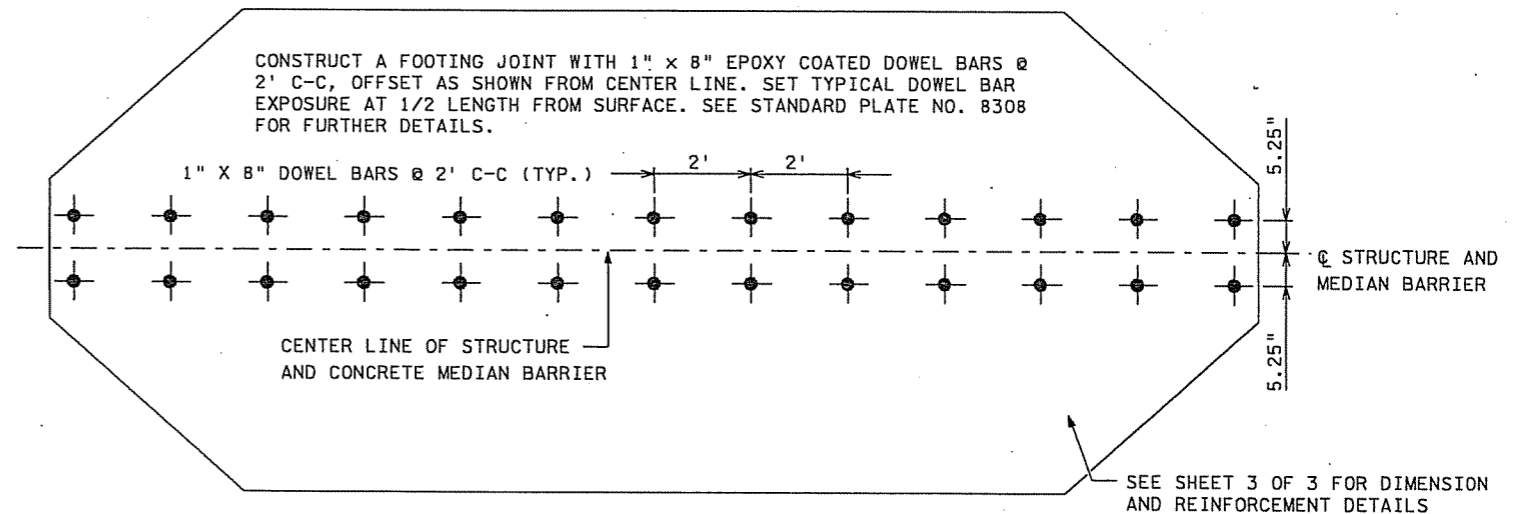
PLOTTED/REVISED: 06-MAR-2007



END VIEW



MEDIAN BARRIER JOINT TO STRUCTURE DETAILS (PLAN VIEW)



① MAINTAIN A 2" MINIMUM LEDGE WIDTH ON ALL SIDES OF GRATE FRAME.

SHEET 1 OF 3

DRAINAGE STRUCTURE DESIGN SPECIAL (LOW POINT STRUCTURE) - STRUCTURE NO. 5027

DRAWN BY: RWP

CHECKED BY: JRM

CERTIFIED BY

Rafael M. Puleo
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 149 OF 396 SHEETS

DISTRICT: METRO
PLOT NAME: MED.DRNJ
PATH & FILENAME: S:\Design\035W\2783\107\Final\sheet\142783107.dwg

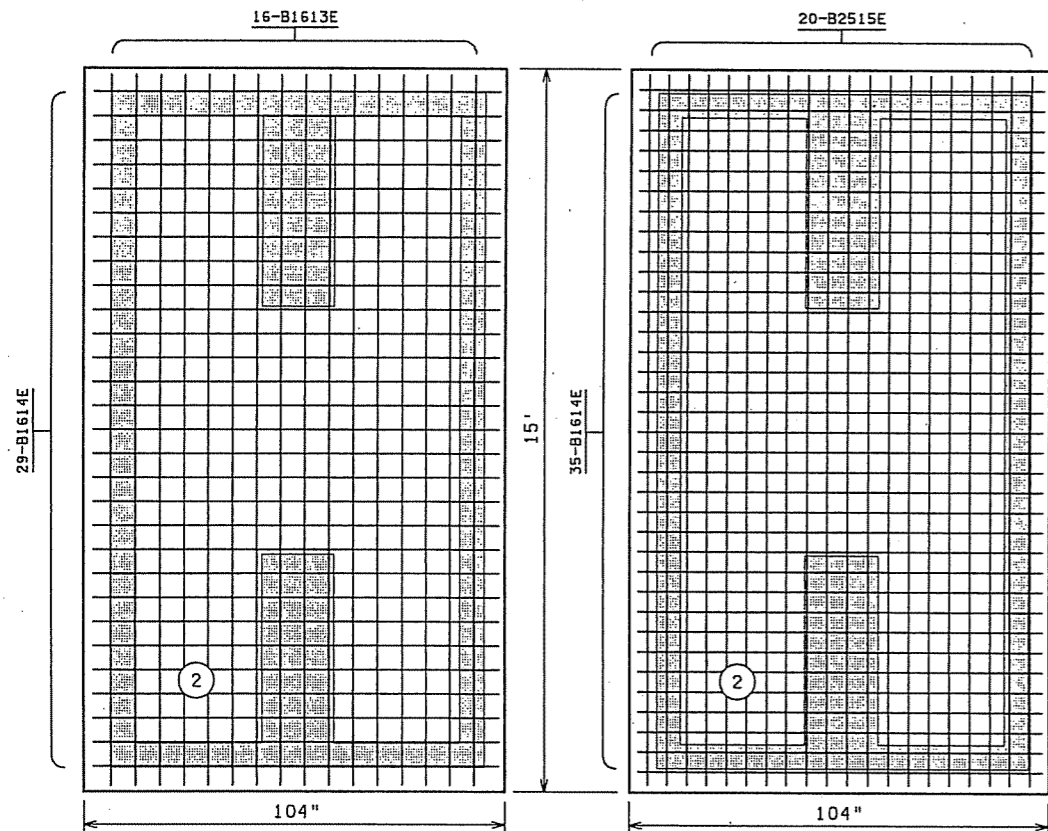
REINFORCEMENT LAYOUT - DRAINAGE STRUCTURE DESIGN SPECIAL (NO. 5027)

BASE PAD

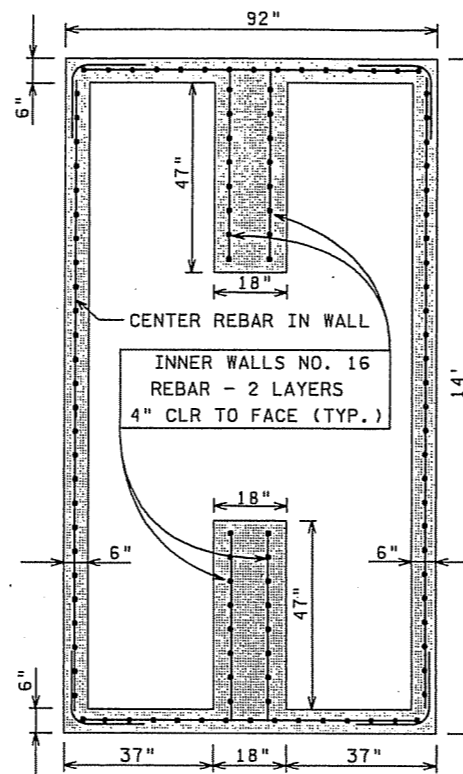
BOTTOM LAYER REINFORCEMENT NO. 16 REBAR @ 6" GRID SPACING (TYP.)

BASE PAD

TOP LAYER REINFORCEMENT, NO. 25 BAR LONGIT., NO. 16 BAR LATERAL @ 5" SPACING

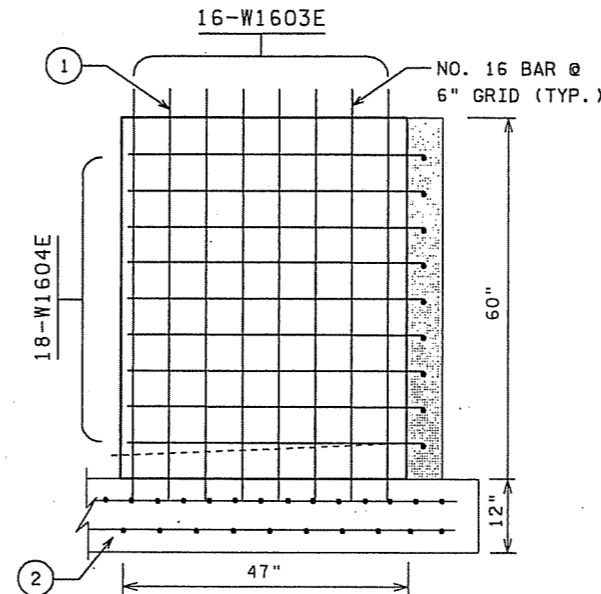


WALLS - PLAN VIEW



INNER WALLS

DOUBLE LAYER REINF. AS SHOWN IN PLAN VIEW



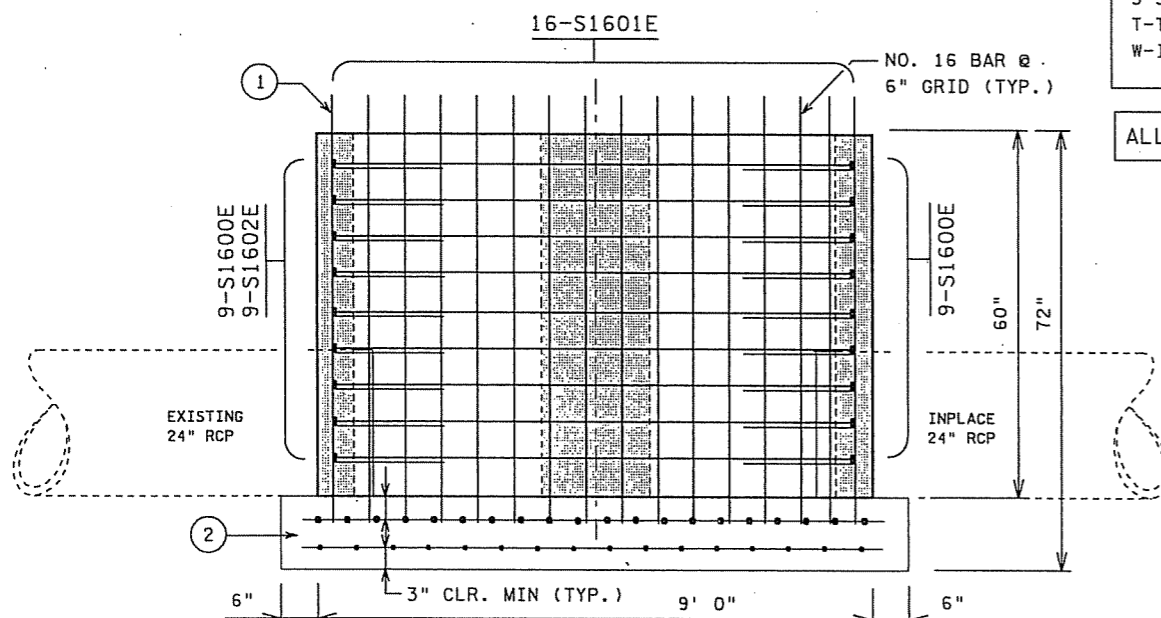
BILL OF REINFORCEMENT BASE & SIDES				
BAR	NO. PCS.	LENGTH	SHAPE	LOCATION
S1600E	36	3' 0"	90° BEND	HORIZ. CORNER TIE
S1601E	32	5' 10"	STRAIGHT	VERTICAL ENDS
S1602E	18	7' 3"	STRAIGHT	HORIZ. ENDS
W1603E	32	5' 10"	STRAIGHT	VERT. INNER WALL
W1604E	36	4' 0"	STRAIGHT	HORIZ. INNER WALL
S1605E	10	13' 6"	STRAIGHT	HORIZ. FACE & BACK
S1606E	4	6' 0"	STRAIGHT	HORIZ. FACE & BACK
S1607E	8	5' 9"	STRAIGHT	HORIZ. FACE & BACK
S1608E	4	5' 6"	STRAIGHT	HORIZ. FACE & BACK
S1609E	44	5' 10"	STRAIGHT	VERTICAL FACE & BACK
S1610E	4	3' 6"	STRAIGHT	VERTICAL FACE & BACK
S1611E	4	3' 2"	STRAIGHT	VERTICAL FACE & BACK
S1612E	4	0' 6"	STRAIGHT	VERTICAL FACE & BACK
B1613E	16	14' 7"	STRAIGHT	BOT. BASE LONGITUDINAL
B1614E	64	8' 3"	STRAIGHT	TOP & BOT. BASE LATERAL
B2515E	20	14' 7"	STRAIGHT	TOP BASE LONGITUDINAL
TOTAL LBS. EPOXY COATED NO.16 REBAR				2814 LBS.
TOTAL CU YDS CONCRETE (SIDES & BASE)				13 CU YDS (3Y46)

NOTE: ALL REBAR TO BE TIED AND SECURED IN PLACE CONFORMING TO MN/DOT SPEC. 2472 BEFORE PLACEMENT OF CONCRETE. ALL REBAR TO MAINTAIN A MINIMUM COVER OF 3" IN ALL DIRECTIONS.

- ① VERTICAL REBARS TO EXTEND 6" ABOVE WALL & 4" INTO BASE PAD.
- ② FOR CONCRETE BASE CONSTRUCTION, TOP LAYER REINFORCEMENT WILL BE SPACED ON A 5" GRID USING NO. 25 LONGITUDINAL AND NO. 16 LATERAL BARS. BOTTOM LAYER REINFORCEMENT WILL BE SPACED ON A 6" GRID USING NO. 16 LONGITUDINAL AND LATERAL BARS. SEE BILL OF REINFORCEMENT FOR BAR SIZE AND LOCATION. ALL BARS TO MAINTAIN A MINIMUM COVER OF 3". SEE SHEET 3 OF 3 FOR OTHER DETAILS.

TOP LAYER NO. 25 REBAR @ 5" GRID SPACING (TYP.) ②
 BOTTOM LAYER NO. 16 REBAR @ 6" GRID SPACING (TYP.)

END WALLS



LEGEND **EXAMPLE**

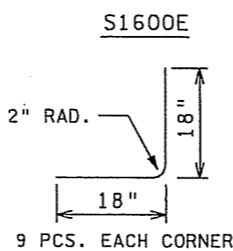
LOCATIONS XX-T1625E

- B-BOTTOM
- S-SIDES
- T-TOP
- W-INNER WALL

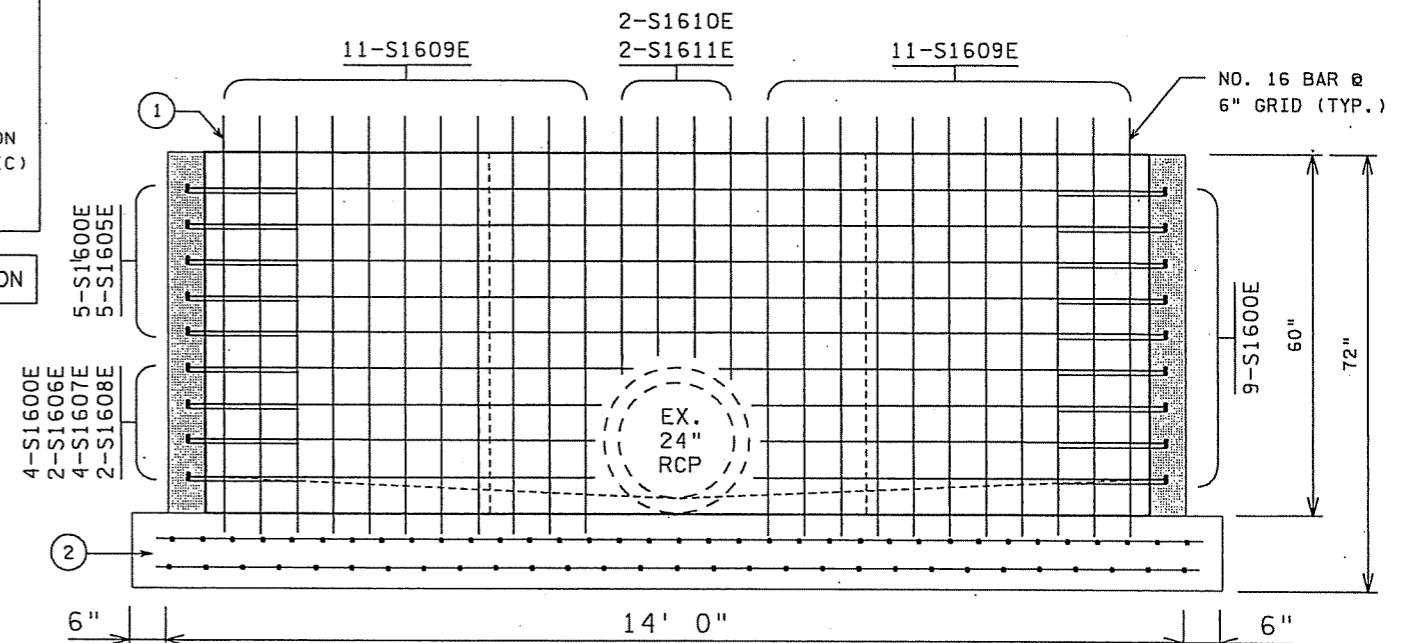
- EPOXY COATED
- BAR IDENTIFICATION
- SIZE REBAR (METRIC)
- LOCATION OF BAR
- NUMBER OF BARS

ALL REBARS ARE IN METRIC DESIGNATION

CORNER TIE BAR



FRONT & BACK WALLS



DRAINAGE STRUCTURE DESIGN SPECIAL (LOW POINT STRUCTURE) - STRUCTURE NO. 5027

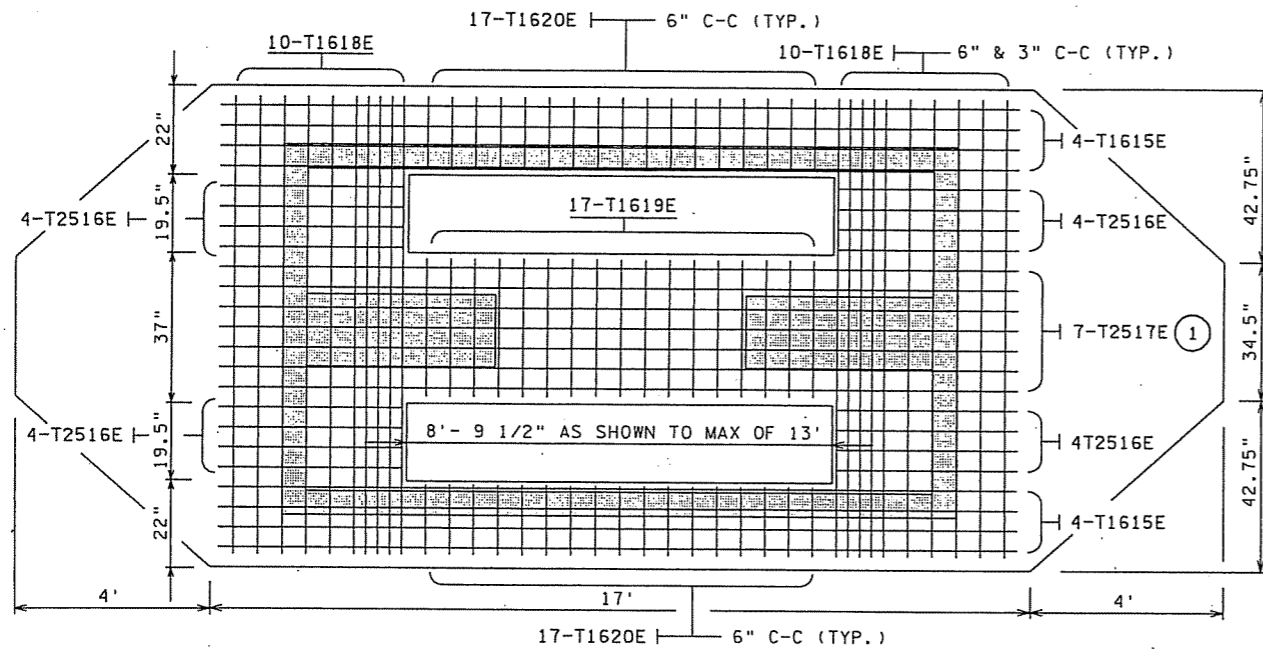
DISTRICT #: METRO
 PLOT NAME: MED.DRN_2
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PLOTTED/REVISED: 06-MAR-2007 11:23

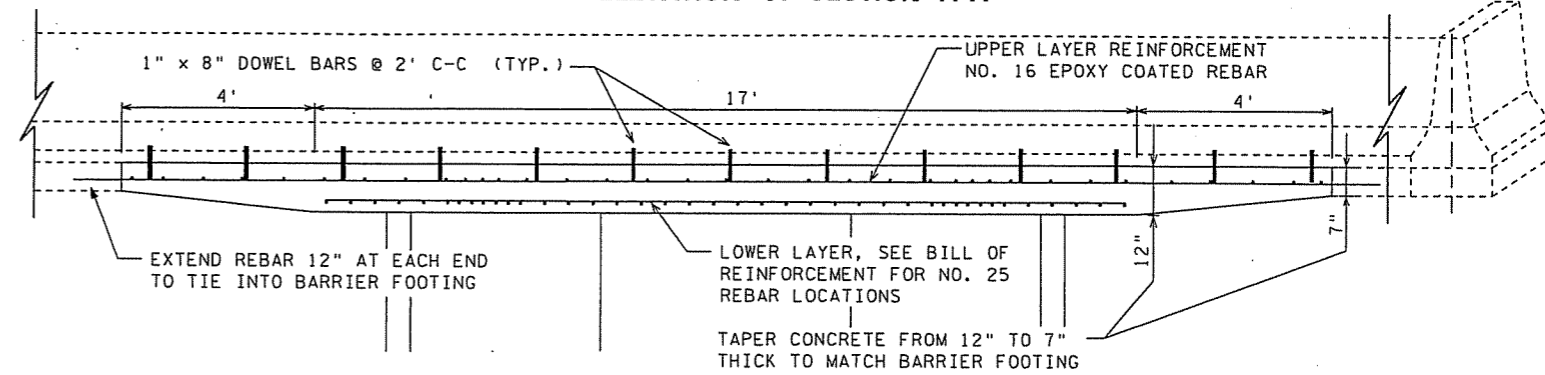
REINFORCEMENT LAYOUT - DRAINAGE STRUCTURE DESIGN SPECIAL (NO. 5027)

TOP OF STRUCTURE - LOWER LAYER REINFORCEMENT LAYOUT

NOTE: REINFORCEMENT @ 3" C-C AROUND DRAINAGE OPENINGS



ELEVATION OF SECTION A-A



GENERAL NOTES:

INLETS GRATES SHALL MAINTAIN A TOTAL MINIMUM FREE OPEN AREA, OF 8.1 SQ. FT. FOR EACH INLET, ON EACH SIDE OF THE PROPOSED CONCRETE MEDIAN BARRIER. THE GRATES SHOWN IN THE DETAIL HAVE 2.8 SQ. FT. OF OPEN AREA EACH.

THE STRUCTURE IS DESIGNED TO ACCOMMODATE DRAINAGE GRATE CONFIGURATIONS OF UP TO THIRTEEN FEET (13') LONG BY TWO FEET (2') WIDE ON EACH SIDE OF THE BARRIER. GRATES REQUIRING A LARGER OPENING WILL REQUIRE A CHANGE IN REBAR SPACING TO BE APPROVED BY THE ENGINEER.

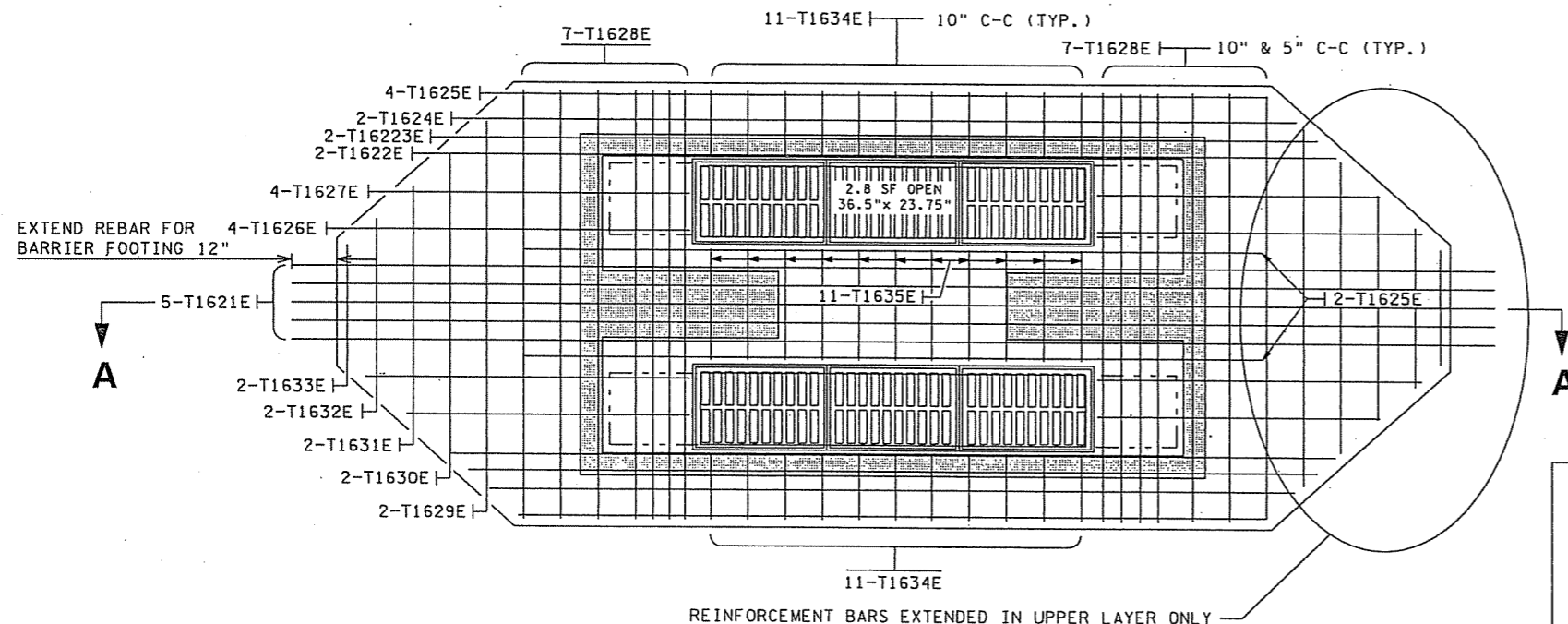
DRAINAGE GRATES, FRAME /CASTINGS ASSEMBLIES SHALL MEET AASHTO H-25 LOADING REQUIREMENTS.

ALL REBAR TO BE TIED AND SECURED IN PLACE CONFORMING TO MN/DOT SPEC. 2472 BEFORE PLACEMENT OF CONCRETE. ALL REBAR TO MAINTAIN A MINIMUM COVER OF 3" IN ALL DIRECTIONS.

① ALL NO. 25 REBAR SPACED AT 5" C-C (TYP.)

TOP OF STRUCTURE - UPPER LAYER REINFORCEMENT LAYOUT @ 10" C-C (TYP.)

NOTE: REINFORCEMENT @ 5" C-C AROUND DRAINAGE OPENING



NOTE: DRAINAGE GRATES, FRAME OR CASTINGS TO MEET AASHTO H-25 LOADING. NEENAH CASTING AND GRATE NO. R-3469 SHOWN IN DRAWING

BILL OF REINFORCEMENT TOP COVER

BAR	NO. PCS.	LENGTH	SHAPE	LOCATION
T1615E	8	16' 6"	STRAIGHT	(LOWER LAYER) LONGIT.
T2516E	16	3' 9"	STRAIGHT	(LOWER LAYER) LONGIT.
T2517E	7	16' 6"	STRAIGHT	(LOWER LAYER) LONGIT.
T1618E	20	9' 6"	STRAIGHT	(LOWER LAYER) LATERAL
T1619E	17	2" 8"	STRAIGHT	(LOWER LAYER) LATERAL
T1620E	34	1' 5"	STRAIGHT	(LOWER LAYER) LATERAL
T1621E	5	27' 0"	STRAIGHT	(UPPER LAYER) LONGIT.
T1622E	2	19' 10"	STRAIGHT	(UPPER LAYER) LONGIT.
T1623E	2	19' 0"	STRAIGHT	(UPPER LAYER) LONGIT.
T1624E	2	18' 0"	STRAIGHT	(UPPER LAYER) LONGIT.
T1625E	4	16' 6"	STRAIGHT	(UPPER LAYER) LONGIT.
T1626E	4	7' 3"	STRAIGHT	(UPPER LAYER) LONGIT.
T1627E	4	6" 4"	STRAIGHT	(UPPER LAYER) LONGIT.
T1628E	14	9' 6"	STRAIGHT	(UPPER LAYER) LATERAL
T1629E	2	8' 0"	STRAIGHT	(UPPER LAYER) LATERAL
T1630E	2	6' 8"	STRAIGHT	(UPPER LAYER) LATERAL
T1631E	2	5' 3"	STRAIGHT	(UPPER LAYER) LATERAL
T1632E	2	3' 9"	STRAIGHT	(UPPER LAYER) LATERAL
T1633E	2	2' 7"	STRAIGHT	(UPPER LAYER) LATERAL
T1634E	22	1' 4"	STRAIGHT	(UPPER LAYER) LATERAL
T1635E	11	2' 4"	STRAIGHT	(UPPER LAYER) LATERAL
TOTAL LBS. EPOXY COATED REBAR				1588 LBS
TOTAL CU YDS OF CONCRETE (TOP)				7 CU YDS (3Y46)

LEGEND	EXAMPLE
LOCATIONS	XX-T1625E
B-BOTTOM	
S-SIDES	
T-TOP	
W-INNER WALL	
	EPOXY COATED BAR IDENTIFICATION
	SIZE REBAR (METRIC)
	LOCATION OF BAR
	NUMBER OF BARS

ALL REBARS ARE IN METRIC DESIGNATION

SHEET 3 OF 3

DRAINAGE STRUCTURE DESIGN SPECIAL (LOW POINT STRUCTURE) - STRUCTURE NO. 5027

DRAWN BY: RWP

CHECKED BY: JRM

CERTIFIED BY

Robert M. Puleo
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

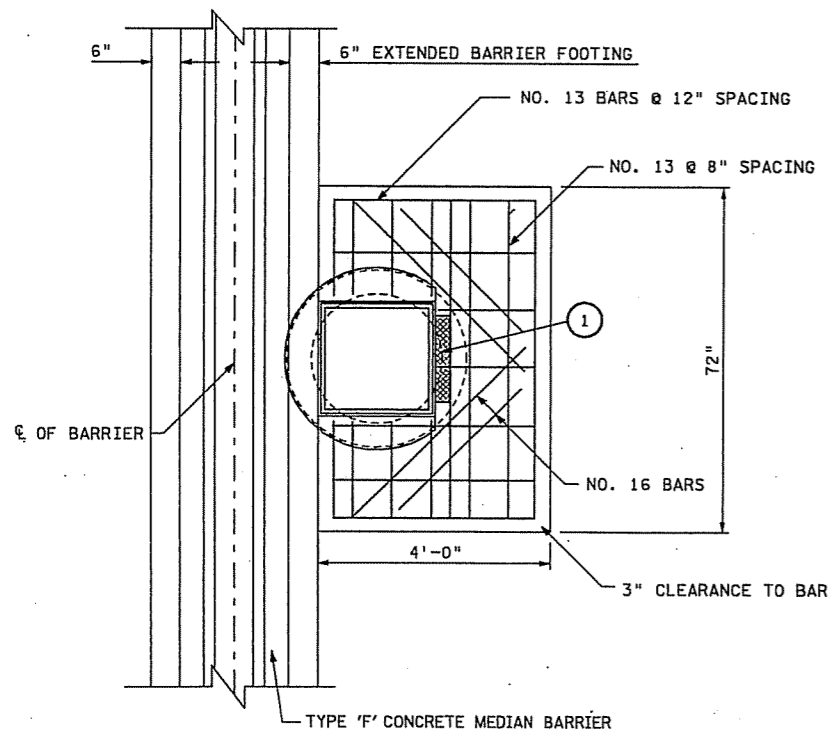
STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 151 OF 396 SHEETS

PLOTTED/REVISED: 06-MAR-2007 11:24

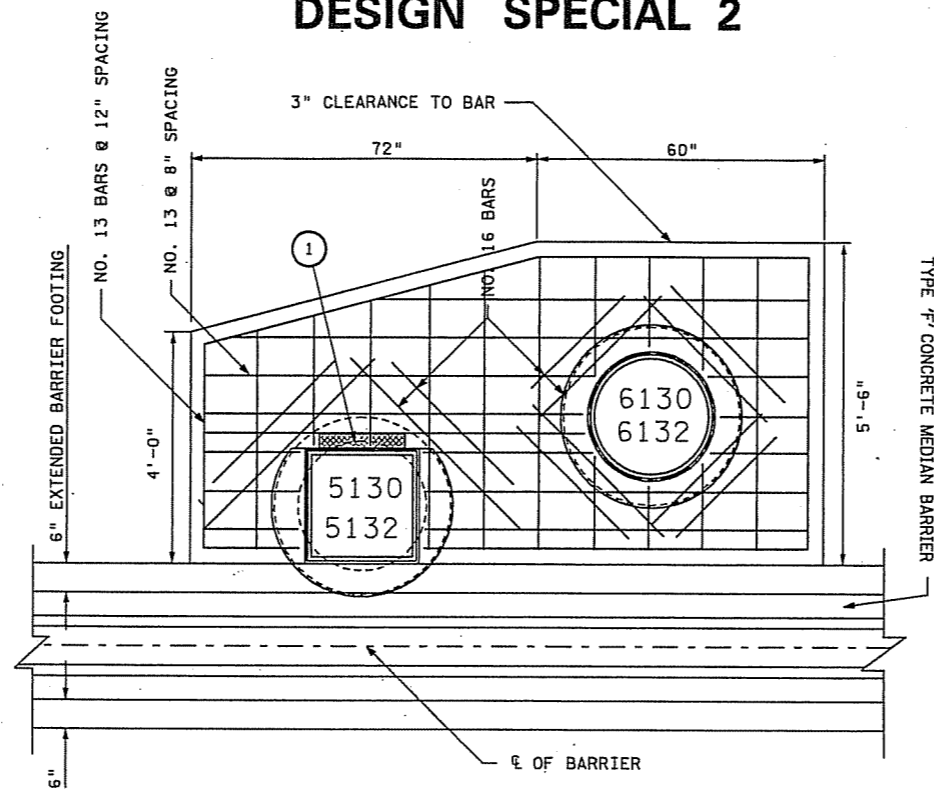
DISTRICT #: METRO
I/PLOT NAME: MED_DRN_3
PATH & FILENAME: S:\Design\035w\2783\NOT\T\Inal\sheet\2783107_dd4.dwg

PLOTTED/REVISED: 07-MAR-2007 11:21

INLET PAD DESIGN SPECIAL 1



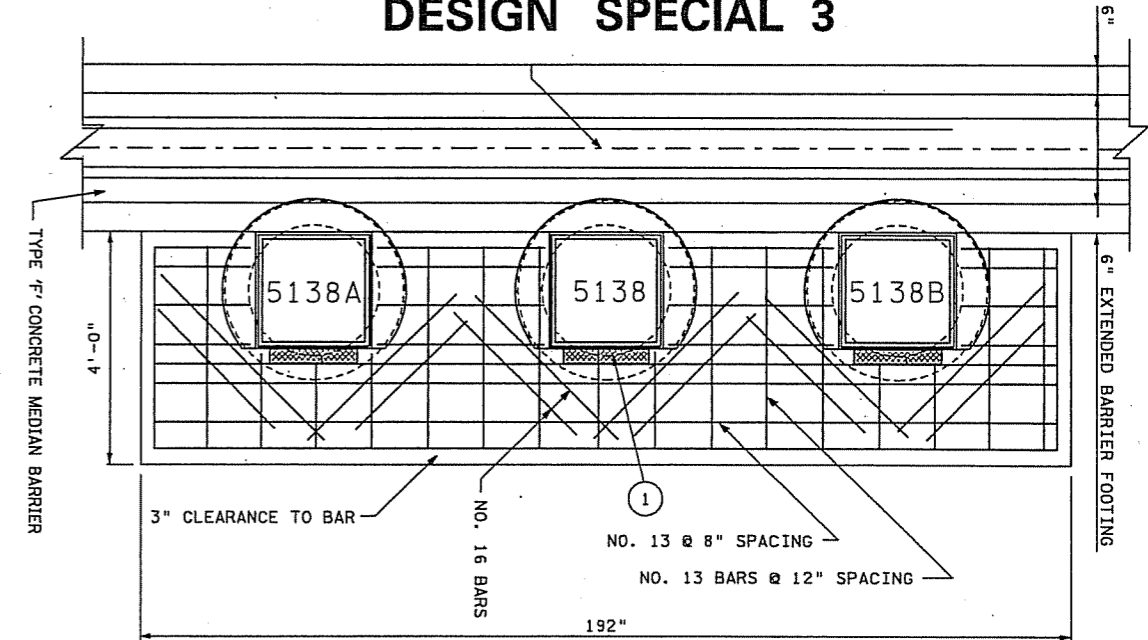
INLET PAD DESIGN SPECIAL 2



① CENTER CASTING ON 27" HOLE, USE 3" x 15" STEEL PLATE (INCIDENTAL) TO COVER GAP WHILE FORMING PAD AND COLLAR.

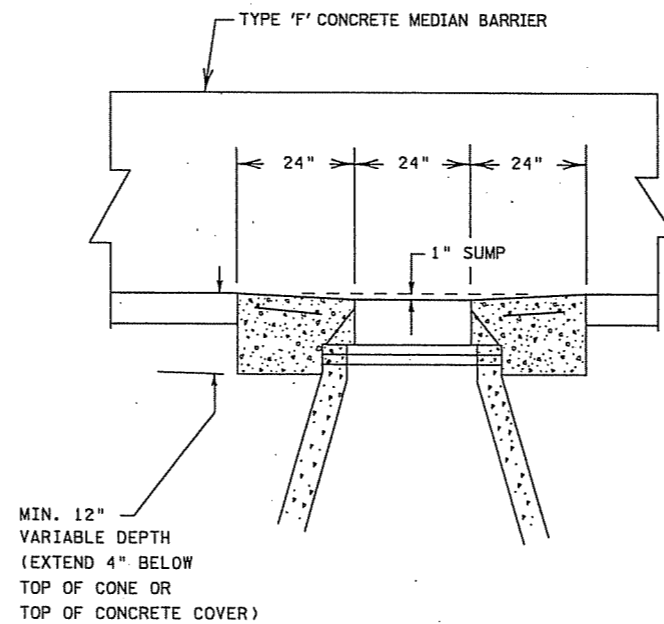
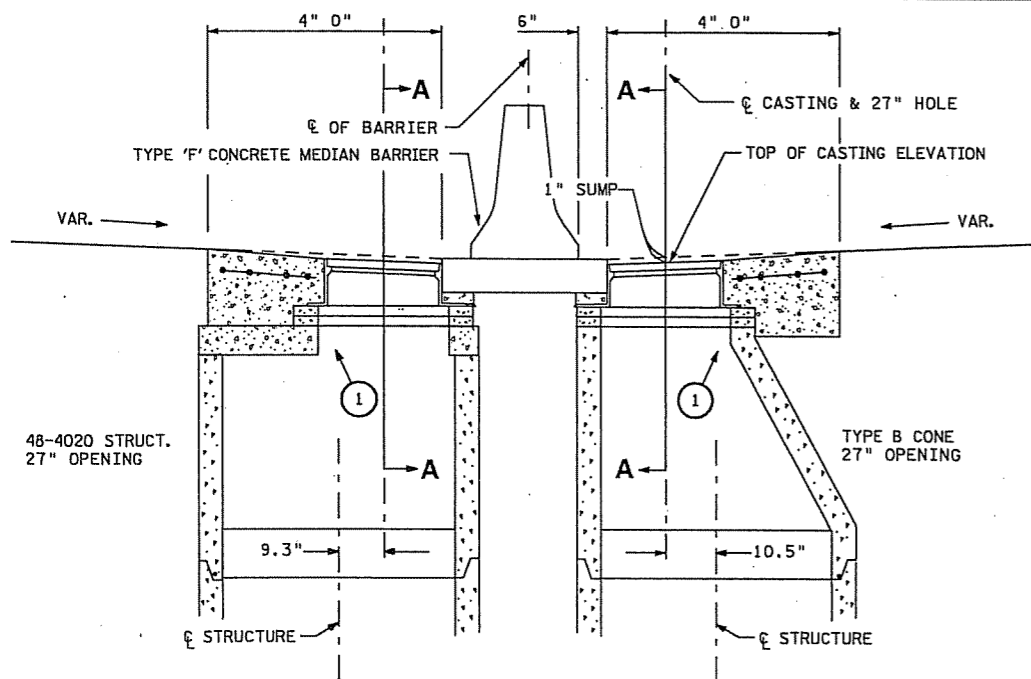
PAYMENT WILL BE MADE UNDER ITEM 2411 CONCRETE INLET PAD BY THE EACH. INLET PAD DESIGN SPECIAL 2 SHALL BE PAID AS TWO INLET PADS AND INLET PAD DESIGN SPECIAL 3 SHALL BE PAID AS THREE INLET PADS.

INLET PAD DESIGN SPECIAL 3



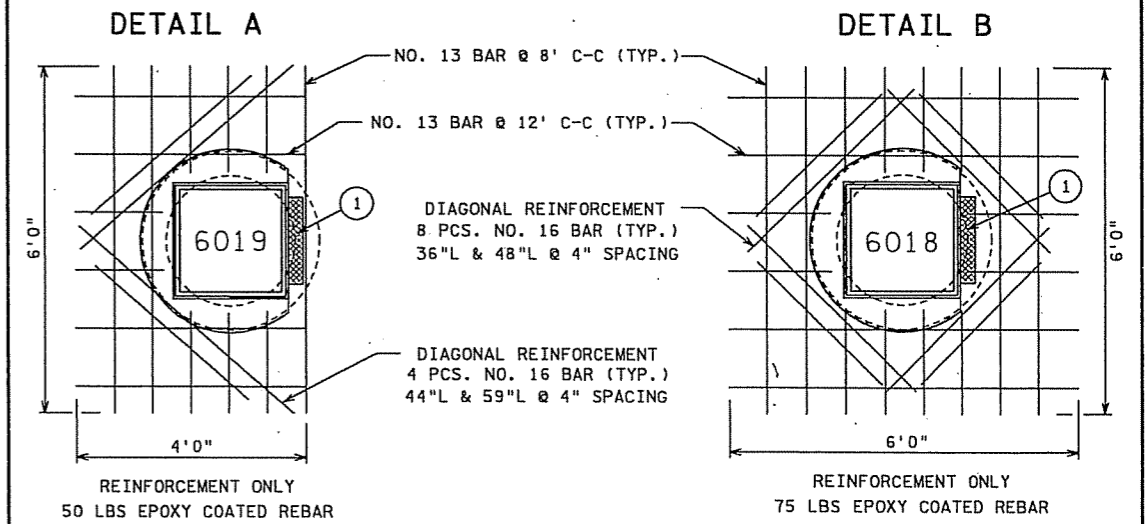
DETAIL TYPE	CONCRETE			REINFORCEMENT NO. 13 & 16 REBARS (EPOXY COATED) WEIGHT (LBS)	NUMBER OF LOCATIONS
	DIMENSIONS L X W	8" SQ FT	MIX 3A43 CU YD		
DESIGN SPECIAL 1	72" x 48"	24	0.6	52	15
DESIGN SPECIAL 2	132" x 66"	56	1.4	121	2
DESIGN SPECIAL 3	192" x 48"	64	1.6	139	1
DETAILS A & B				125	
TOTALS:		536	13.4	1192	

DISTRICT #: METRO
I/PLOT NAME: MED_INLET_PAD
PATH & FILENAME: S:\Design\035w\2783\107\final\sheet\d2783107_d48.dgn



ALL REBARS ARE IN METRIC DESIGNATION

MEDIAN DRAINAGE REINFORCEMENT DETAILS DRAINAGE STRUCTURES NO. 6019 & 6018



NOTE: ALL REBAR TO MAINTAIN A MINIMUM 4" COVER TO TOP SURFACE

DETAILS - CONCRETE INLET PAD

DRAWN BY: RWP

CHECKED BY: JRM

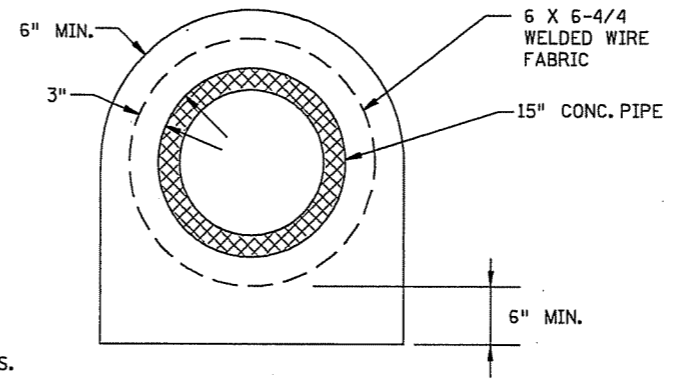
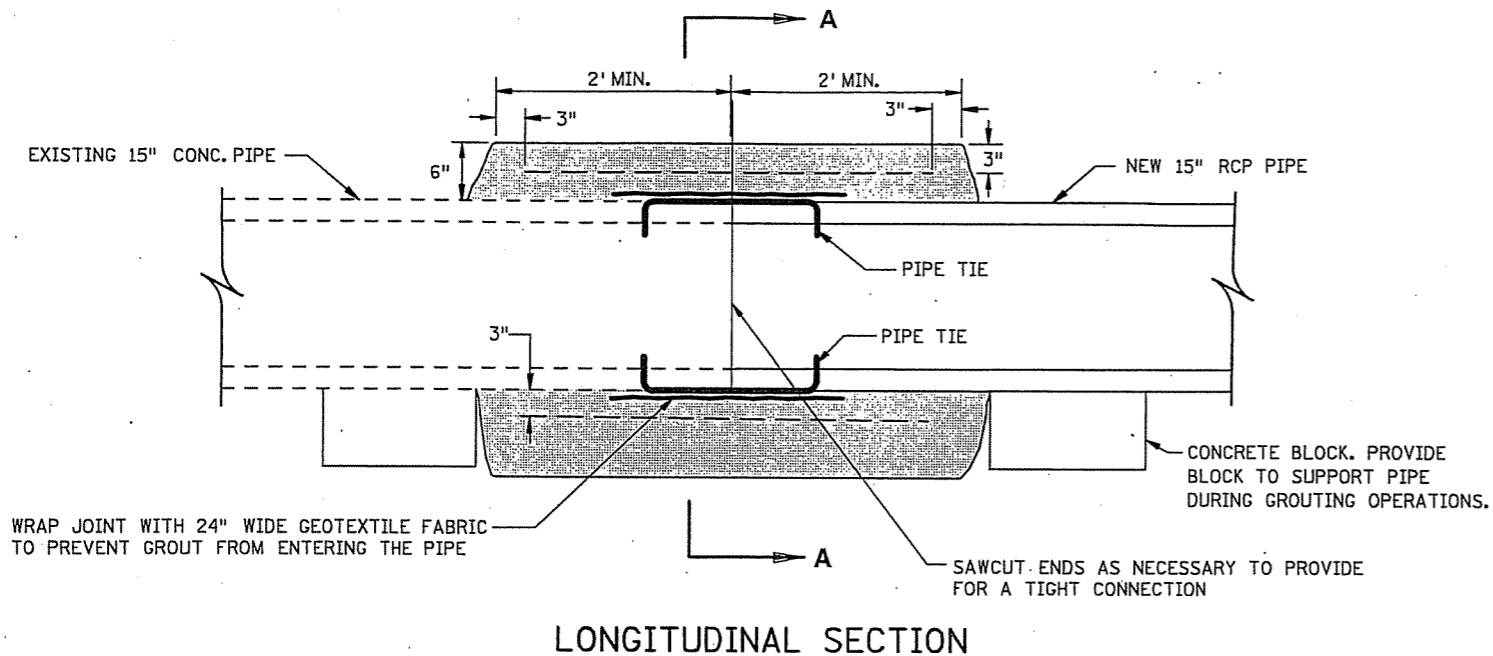
CERTIFIED BY

R. J. P. [Signature]
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-2007

STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO. 152 OF 396 SHEETS

PLOTTED/REVISED: 08-MAR-2007 12:16



SECTION A-A

NOTE: GROUT CONNECTION, USE CONCRETE CURB AND GUTTER MIX (3A32) OR AS DIRECTED BY THE ENGINEER

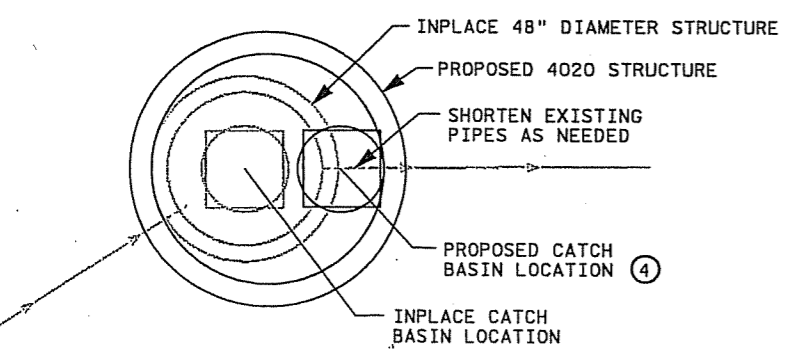
GROUT CONNECTION DETAIL

C CASTING ASSEMBLIES			
ASSEMBLY	FRAME OR RING CASTING	COVER OR GRATE CASTING	QUANTITY
B-8	805	815	22
D-3	805	815	3
A-7D	700-7	715	2
TOTAL:			27 ①

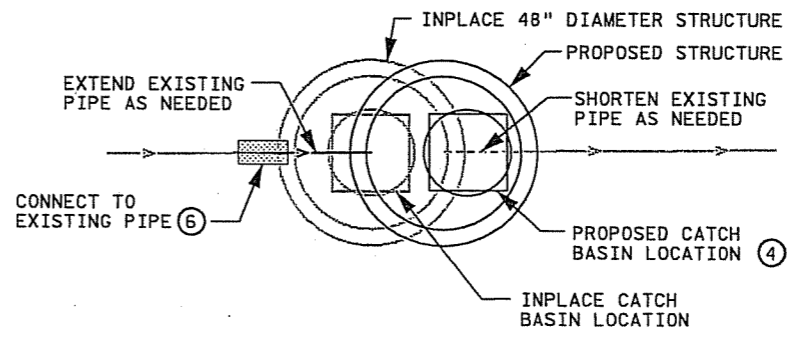
① CASTINGS FOR STRUCT. NO. 5027 NOT INCLUDED.

TYPICAL CATCH BASIN RELOCATION - DETAILS

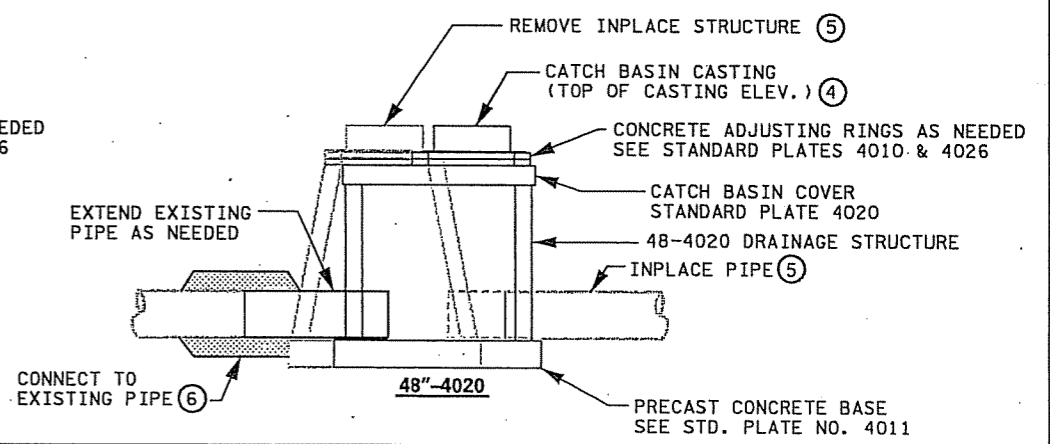
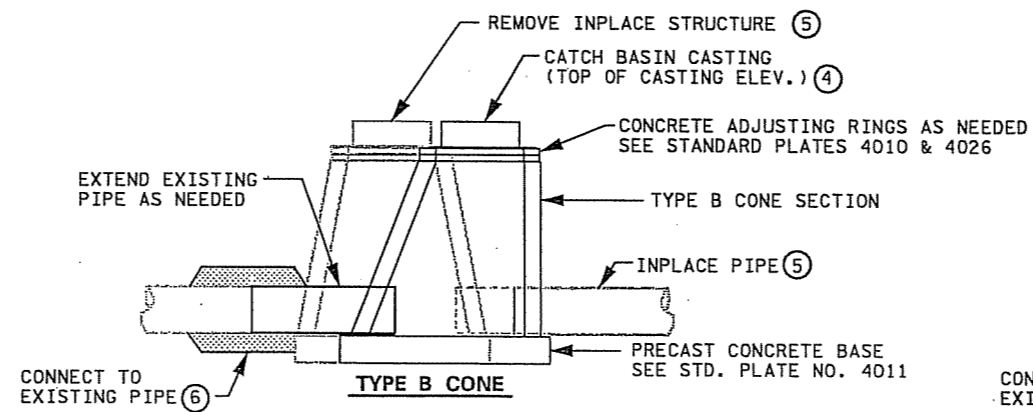
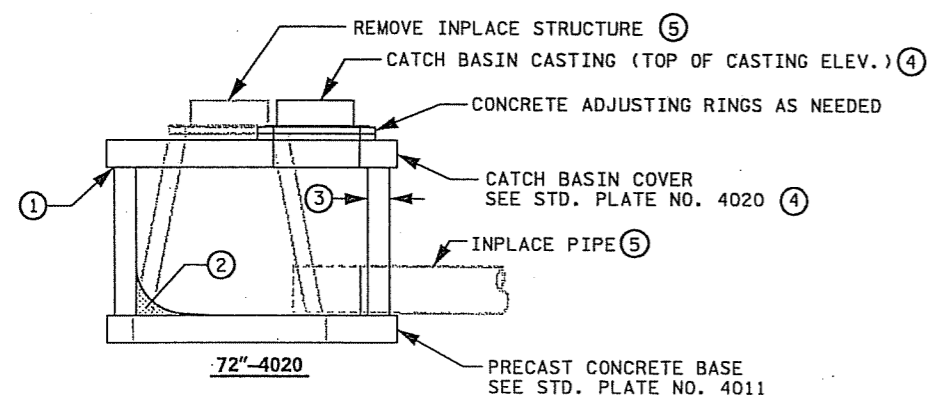
LOCATIONS WHERE THE INPLACE PIPES ARE SKEWED



LOCATIONS WHERE THE INPLACE PIPES ARE NOT SKEWED



- ① PROVIDE FULL MORTAR BED.
- ② PROVIDE FILLETS TO DIRECT FLOW TO OUTLET PIPE.
- ③ WALL CONSTRUCTION MAY BE CLASS II PRECAST PIPE, STANDARD PLATE NO. 3000.
- ④ LOCATE OPENING AS NEEDED TO FIT MEDIAN BARRIER.
- ⑤ DO NOT DAMAGE INPLACE PIPES WHILE REMOVING THE INPLACE STRUCTURE.
- ⑥ SEE GROUT CONNECTION DETAIL ON THIS SHEET.



DRAINAGE DETAILS

DRAWN BY: RWP

CHECKED BY: JRM

CERTIFIED BY

R. M. P. P.
LICENSED PROFESSIONAL ENGINEER

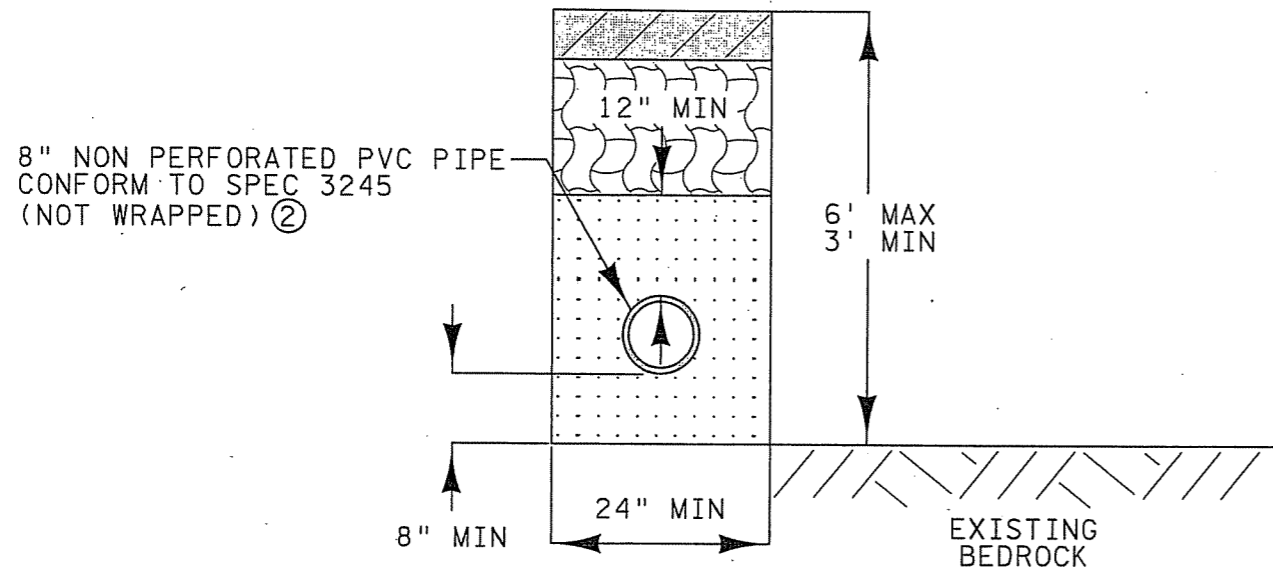
LIC. NO. 26530 DATE 03-08-07

STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO.153 OF 396 SHEETS

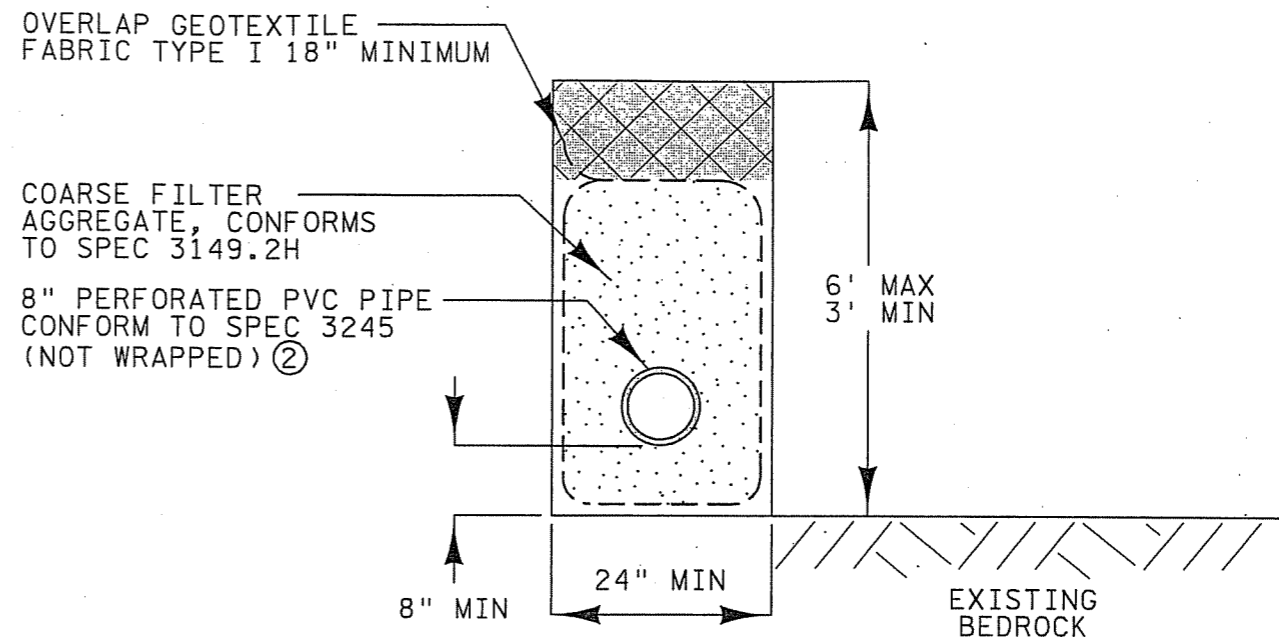
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PLOTTED/REVISED: 08-MAR-2007 12:08

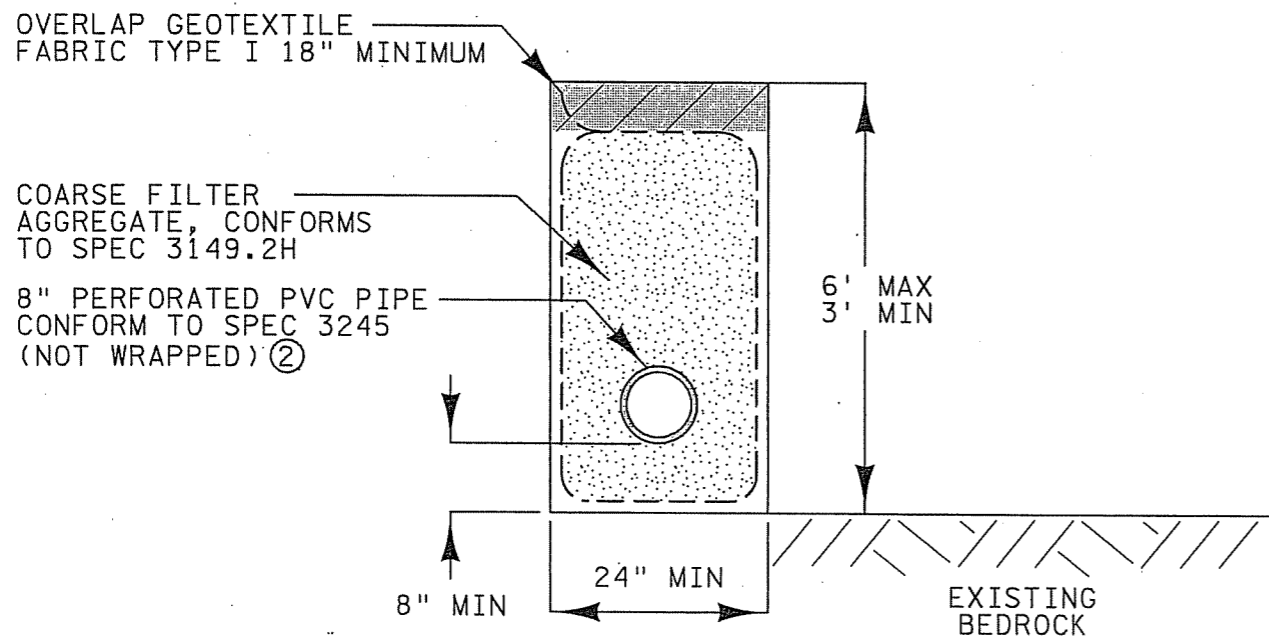
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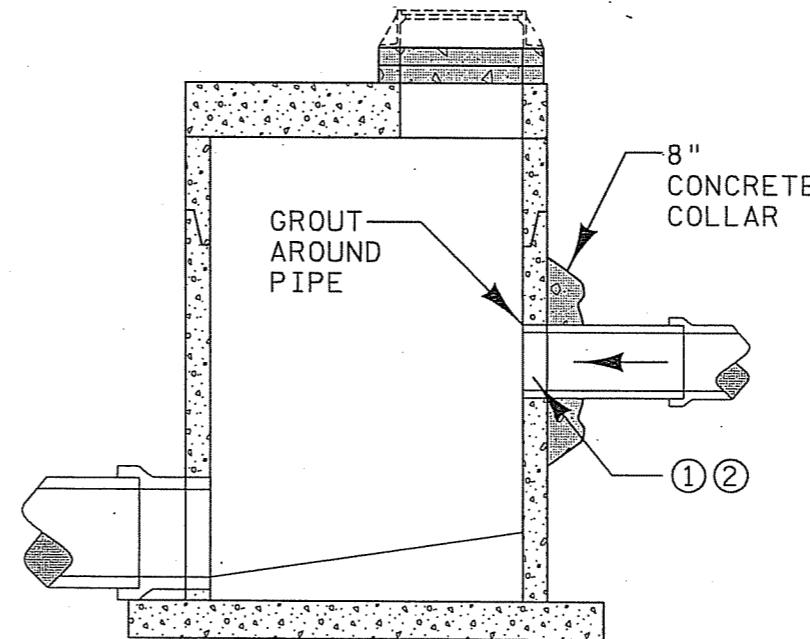
NON PERFORATED PIPE SECTION
WATER SEEPAGE AREA #1 AND #2



PERFORATED PIPE SECTION
SOUTHBOUND 35W WATER SEEPAGE AREA #2



PERFORATED PIPE SECTION
NORTHBOUND 35W WATER SEEPAGE AREA #1



CONNECTION TO EXISTING
STORM SEWER STRUCTURE

NOTES:

- ① OPENING IN STRUCTURE FOR DRAINTILE CONNECTION SHALL BE CORE DRILLED.
- ② MAINTAIN POSITIVE DRAINAGE.

BACKFILL WITH SUITABLE GRADING MATERIAL

GRANULAR BORROW (CV) CONFORM TO SPEC 3149B

6" MINIMUM TOPSOIL

12" CLASS I RIPRAP ADJACENT TO SOUTHBOUND 35W CONFORMS TO SPEC 3601

GENERAL NOTE

PAYMENT FOR 8" PERFORATED AND NON-PERFORATED PVC SUBSURFACE DRAINAGE SYSTEM SHALL BE PAID FOR BY THE LINEAR FOOT. THE FOLLOWING ITEMS WILL BE CONSIDERED INCIDENTAL. COURSE FILTER AGGREGATE, GEOTEXTILE FABRIC TYPE I, SELECT GRANULAR BORROW, AND BACKFILL. AND CONNECTION TO EXISTING STRUCTURE.

SUBSURFACE DRAIN DETAIL

DRAWN BY: LJR

CHECKED BY: GP

CERTIFIED BY

LICENSED PROFESSIONAL ENGINEER

LIC. NO. 26530 DATE 03-08-07

STATE PROJ. NO. 2783-107 (T.H. 35W)

SHEET NO. 154 OF 396 SHEETS

STORM WATER POLLUTION PREVENTION PLAN NARRATIVE

PROJECT DESCRIPTION/LOCATION

SP 2783-107 IS A MAINTENANCE PROJECT LOCATED ON TH 35W, FROM STINSON BLVD. IN HENNING COUNTY TO THE MISSISSIPPI RIVER.
 THE PROJECT INCLUDES:
 *PAVEMENT REHABILITATION
 *MISCELLANEOUS STORM SEWER REPAIR
 *MINOR GRADING WORK REQUIRED TO INSTALL CULVERTS AND GUARDRAIL

SITE MAPS

IN ADDITION TO WHAT IS LOCATED WITHIN THIS PLAN, EXISTING AND PROPOSED SITE MAPS HAVE BEEN CREATED IN ARC GIS AND ARE KEPT ON FILE WITH MN/DOT METRO WATER RESOURCES. THE ARC GIS FILES DISPLAY THE PROJECT LIMITS, ALIGNMENT, SOIL TYPES, EXISTING AND PROPOSED CONTOURS, DRAINAGE AREAS, STORM SEWER LOCATIONS, FLOW ARROWS, AND IMPERVIOUS SURFACE.
 SEVERAL SITE MAPS FOR THIS PROJECT HAVE BEEN CREATED. THE MINOR GRADING WORK TO BE COMPLETED WILL NOT SIGNIFICANTLY CHANGE THE EXISTING CONTOURS. PLEASE CONTACT THE WATER RESOURCES PROJECT MANAGER, BRUCE IRISH, (651) 634-2156, WITH ANY QUESTIONS REGARDING THE SITE MAPS.

ENVIRONMENTALLY SENSITIVE AREAS

THERE ARE NO WETLANDS WITHIN THE PROJECT LIMITS. THE NEARBY MISSISSIPPI RIVER IS AN IMPAIRED WATER.

OUTSTANDING RESOURCE VALUE WATERS (ORVWs)

THERE ARE NO OUTSTANDING RESOURCE VALUE WATERS WITHIN THE PROJECT LIMITS.

CALCAREOUS FENS

THERE ARE NO CALCAREOUS FENS WITHIN THE PROJECT LIMITS.

TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS

THERE ARE NO TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS WITHIN THE PROJECT LIMITS.

LAND FEATURE CHANGES

TOTAL PROJECT AREA DISTURBED: 4 AC
 TOTAL EXISTING IMPERVIOUS SURFACE AREA: 29.43 AC
 TOTAL EXISTING PERVIOUS SURFACE AREA: 0 AC
 TOTAL PROPOSED IMPERVIOUS SURFACE AREA: 29.43 AC
 TOTAL PROPOSED PERVIOUS SURFACE AREA: 0 AC

TIMING OF BMP INSTALLATION

THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs SHALL BE INSTALLED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ONSITE, AND SHALL MEET THE NPDES PERMIT PART IV CONSTRUCTION ACTIVITY REQUIREMENTS. TIMING OF POND CONSTRUCTION IS SHOWN ON THE STAGING PLAN.

DRAINAGE COMPUTATIONS

COMPUTATIONS ARE KEPT ON FILE WITH MN/DOT METRO WATER RESOURCES. CHANGES MADE IN THE FIELD SHOULD BE DISCUSSED WITH THE WATER RESOURCES PROJECT MANAGER AND NOTED IN THE CONTRACTOR'S CONSTRUCTION LOG.

DEWATERING/BASIN DRAINING

THERE SHOULD NOT BE A NEED TO DEWATER BASINS TO REPLACE CULVERTS. IF IT IS NEEDED, THE CONTRACTOR IS REQUIRED TO SUBMIT PLANS TO MN/DOT RESIDENT CONSTRUCTION ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

PROJECT CONTACTS

THE PROJECT ENGINEER AND CONTRACTOR ARE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE AND DURING CONSTRUCTION. MN/DOT METRO DISTRICT STAFF AND MEMBERS OF MN/DOT'S OFFICE OF ENVIRONMENTAL SERVICES ARE ALSO AVAILABLE FOR ASSISTANCE. MN/DOT METRO MAINTENANCE IS RESPONSIBLE FOR LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORM WATER MANAGEMENT SYSTEM.
 MN/DOT PROJECT SUPERVISOR: ELIZABETH BENJAMIN, 2229 PILOT KNOB ROAD, MENDOTA HEIGHTS, MN 55120, 651-406-4831
 METRO DISTRICT MAINTENANCE CONTACT: CAMDEN TRUCK STATION, 3636 WASHINGTON AVENUE, MINNEAPOLIS, MN 55412, 612-520-3560

MPCA 24 HOUR EMERGENCY NOTIFICATION: 651-649-5451
 800-422-0798

CONSTRUCTION NOTES

CONSTRUCTION SHALL BE GOVERNED BY THE MN/DOT SPEC BOOK AND THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL KEEP THE INSPECTION AND MAINTENANCE LOG.

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

DESCRIPTION	TITLE	LOCATION
PERMANENT EROSION CONTROL MEASURES	EROSION CONTROL PLAN	SHEET NO. 158-168
DIRECTION OF FLOW	DRAINAGE PLAN	SHEET NO. 139-145
FINAL STABILIZATION	TURF ESTABLISHMENT PLAN	SHEET NO. 158-168
SOILS AND CONSTRUCTION DETAILS	STANDARD PLATES AND SOILS & CONSTRUCTION NOTES	SHEET NO. 8
DRAINAGE STRUCTURES	DRAINAGE DETAILS	SHEET NO. 146-156
EROSION CONTROL DETAILS	STANDARD PLAN SHEETS	SHEET NO. 33-54

I HEREBY CERTIFY THAT THIS SHEET HAS BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
 PRINT NAME: BRUCE IRISH LICENSE NO. 14974
 SIGNATURE: *Bruce A. Irish* DATE: 2/7/07

DRAWN BY: LA CHECKED BY: BAI

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
 STATE PROJ. NO. 2783-107 (T.H. 35W) SHEET NO.155 OF 385 SHEETS

DISTRICT #: \$@METRO@
 IPLOT NAME: swppp
 PATH & FILENAME: S:\Design\035w\2783\DOT\Ina\Sheets\swppp.dgn
 DIVISION DATE 01/26/05
 PLOTTED/REVISED: 08-MAR-2007 11:00