GEORGETOWN
LIBRARY SQUARE

SHEET 1 OF 47
TITLE SHEET AND INDEX

# THE TOWN OF GEORGETOWN

## MR. PETER DURKEE, HIGHWAY SUPERVISOR

ESSEX COUNTY

PLANS OF

## ROADWAY IMPROVEMENTS

AT

## LIBRARY SQUARE
## PARK STREET, MAPLE STREET, PLEASANT STREET, LINCOLN STREET AND WINTER STREET

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 15, 2012, THE 2012 CONSTRUCTION STANDARD DETAILS, THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS, (AS RELATED TO TRAFFIC STANDARD DETAILS ONLY), THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

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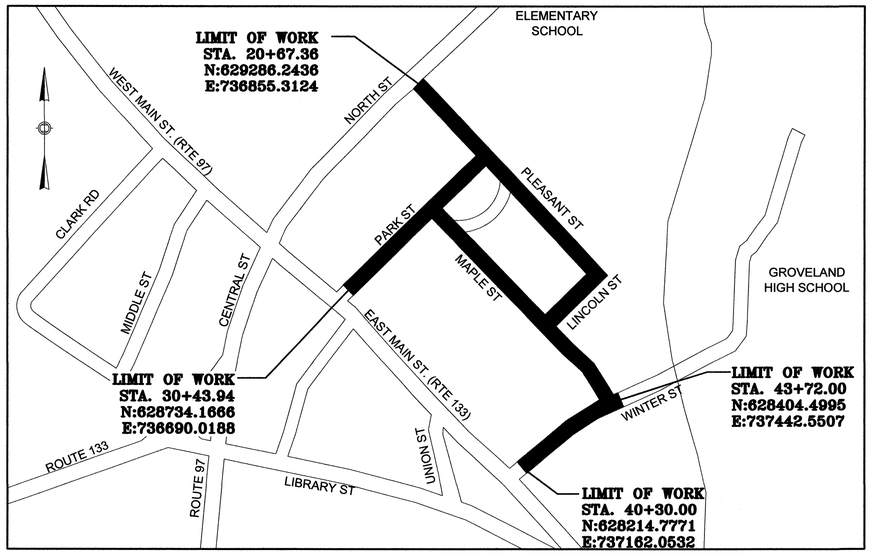


GRAPHIC SCALE
( IN FEET )

0 200 500 1000

1" = 200'

LENGTH OF PROJECT = 2,585 FEET (0.49 MILES)

COMMONWEALTH OF MASSACHUSETTS
JONATHAN SHIKES
CIVIL
No. 45512
REGISTERED PROFESSIONAL ENGINEER
7/30/2013


BAYSIDE ENGINEERING

600 Unicorn Park Drive ▲ Woburn, MA 01801
Phone: 781.932.3201 ▲ Fax: 781.932.3413
www.baysideengineering.com



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GEORGETOWN
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SHEET 2 OF 47
LEGEND

# LEGEND

## GENERAL SYMBOLS

| EXISTING | PROPOSED | |
|---|---|---|
| CB (OR GI) | CB (OR GI) | CATCH BASIN (OR GUTTER INLET) |
| CBCI (OR GICI) | | CATCH BASIN (OR GUTTER INLET) WITH CURB INLET |
| | | CURB (OR BERM)–TYPE NOTED |
| | | EDGE OF ROAD |
| | | ELECTRIC HANDHOLE (NUMBER AS NOTED) |
| E | | ELECTRIC MANHOLE " |
| T | | TELEPHONE MANHOLE " |
| W | | WATER MANHOLE " |
| S | SMH | SEWER MANHOLE " |
| D | DMH | DRAINAGE MANHOLE " |
| GG | GG | GAS GATE |
| WG | WG | WATER GATE |
| | CS | CURB STOP |
| HYD | HYD | HYDRANT |
| FA | FA | FIRE ALARM BOX |
| | PM | PARKING METER |
| | | STREET LIGHT |
| | | WOODEN POLE |
| | | GUY POLE |
| MW | | MONITORING WELL |
| D STL D | SIZE & TYPE | STEEL DRAIN PIPE |
| D D | SIZE & TYPE | DRAIN PIPE |
| S S | SIZE & TYPE | SEWER MAIN |
| E E | | ELECTRIC DUCT |
| G G | SIZE & TYPE | GAS MAIN |
| W W | SIZE & TYPE | WATER MAIN |
| T T | | TELEPHONE DUCT |
| | | INDIVIDUAL TREE PROTECTION |
| MB | MB | MAIL BOX |
| | | HIGHWAY GUARD (TYPE NOTED) |
| MHB,SB,CB | MHB,SB,CB | HIGHWAY / PROPERTY BOUND (TYPE NOTED) |
| LABEL / DATE | LABEL / DATE | CITY OR TOWN OR COUNTY LAYOUT LINE |
| NAME | | CITY,TOWN OR COUNTY BOUNDARY |
| | | STATE BOUNDARY |
| 12 N00°00'00"E +57.59 PC | N00°00'00"E 12 +57.59 PC | BASE OR SURVEY LINE<br>CENTERLINE OF CONSTRUCTION |
| | | WHEELCHAIR RAMP (WCR) |
| | | TREE (SIZE AND TYPE NOTED) |
| | | FENCE (SIZE AND TYPE NOTED) |
| | | EASEMENT LINE |
| | | APPROXIMATE COLD PLANING AREA |
| | | COMPOST FILTER TUBES |
| | BVW | BORDERING VEGETATED WETLANDS (CROSS SECTIONS) |

## PAVEMENT MARKINGS AND SIGNING SYMBOLS

| EXISTING | PROPOSED | |
|---|---|---|
| | | DIRECTION OF FLOW |
| | | NO PARKING ANYTIME |
| | | PARKING RESTRICTIONS (AS NOTED) |
| | | PAVEMENT ARROW AND LEGEND |
| | CW | CROSSWALK, 2 – 12" WHITE LINES (SIZE NOTED) |
| | SL | STOP LINE, 12" WHITE LINE 4' BEHIND CW (TYP.) |
| | | SIGN AND POST |
| | | SIGN AND EXIST. POST |
| | | DELINEATOR |
| BWLL | | BROKEN WHITE LANE LINE |
| BYCL | | BROKEN YELLOW CENTERLINE |
| DYCL | | DOUBLE YELLOW CENTERLINE |
| SWCHL | | SOLID WHITE CHANNELIZING LINE |
| SWEL | | SOLID WHITE EDGE LINE |
| SWLL | | SOLID WHITE LANE LINE |
| SWSL | | SOLID WHITE SHOULDER LINE |
| SYBL | | SOLID YELLOW BARRIER LINE |
| SYCHL | | SOLID YELLOW CHANNELIZATION LINE |
| SYEL | | SOLID YELLOW EDGE LINE |

## TRAFFIC SIGNAL SYMBOLS

| EXISTING | PROPOSED | |
|---|---|---|
| | | CONTROL CABINET GROUND MOUNTED (WITHOUT & WITH CONCRETE PAD) |
| | | CONTROL CABINET POLE MOUNTED |
| | | FLASHING BEACON CONTROL & METER PEDESTAL |
| TS | TS | SIGNAL POST & BASE |
| | | MAST ARM, SHAFT, & BASE (ARM LENGTH AS NOTED) |
| | | VEHICULAR SIGNAL HEAD (ALPHA–NUMERIC DESIGNATION NOTED) |
| | | VEHICULAR SIGNAL HEAD (OPTICALLY PROGRAMMED) " |
| | | FLASHING BEACON " |
| | | PEDESTRIAN SIGNAL HEAD " |
| | | EMERGENCY VEHICLE DETECTOR |
| | | CONFIRMATION STROBE |
| | | LIMIT OF VISIBILITY OF OPTICALLY PROGRAMMED SIGNAL HEAD |
| PB | PB HH | PULL BOX 12" x 12" OR HANDHOLE |
| PB | PB | PULL BOX 12" x 24" |
| A | A | CONTROLLER PHASE |
| M | M | MAGNETIC DETECTOR (LANE, MULTI–LANE, DIRECTIONAL AS NOTED) |
| RD | RD | RADAR DETECTOR |
| S | S | SONIC DETECTOR |
| | | INDUCTIVE LOOP DETECTOR |
| P | P | PRESSURE DETECTOR |
| | | MAGNETOMETER |
| PB | PB | PEDESTRIAN PUSH BUTTON |
| AOD | AOD | AREA OF DETECTION |
| | | CONDUIT |
| | | CONDUIT CROSSING ROADWAY WITH CEMENT CONCRETE CAP |
| —X—X— | -X-X- | "X" DUCT (CONCRETE ENCASED) |
| | | OVERHEAD CABLE |
| | | DIRECT BURIED CABLE |

### ABBREVIATIONS

| | |
|---|---|
| ABAN. | ABANDON |
| ADJ. | ADJUST |
| BIT. CONC. | BITUMINOUS CONCRETE |
| BVW | BORDERING VEGETATED WETLAND |
| CEM. | CEMENT |
| CIT | CHANGE IN TYPE |
| CI | CURB INLET |
| L | DETECTOR – LOCK |
| NL | DETECTOR – NON–LOCK |
| EXIST. | EXISTING |
| F&C | FRAME AND COVER |
| F&G | FRAME AND GRATE |
| FY | FLASHING CIRCULAR AMBER |
| FR | FLASHING CIRCULAR RED |
| FDW | FLASHING DON'T WALK – PORTLAND ORANGE |
| FDN. | FOUNDATION |
| GRAN. | GRANITE |
| H.E.S. | HIGH EARLY STRENGTH |
| H.M.A. | HOT MIX ASPHALT |
| INV. | INVERT ELEVATION |
| L.O. | LAYOUT |
| MB | MAIL BOX |
| NIC | NOT IN CONTRACT |
| PWW | PAVED WATER WAY |
| PAV'T. | PAVEMENT |
| RCP | REINFORCED CONCRETE PIPE |
| REMOD. | REMODEL |
| REM. | REMOVE |
| R&D | REMOVE & DISCARD |
| R&R | REMOVE & RESET |
| R&S | REMOVE & STACK |
| RET. | RETAIN |
| STL | STEEL PIPE |

### ABBREVIATIONS (CON'T)

| | |
|---|---|
| VGC | VERTICAL GRANITE CURB |
| Y | STEADY CIRCULAR AMBER |
| G | STEADY CIRCULAR GREEN |
| R | STEADY CIRCULAR RED |
| DW | STEADY DON'T WALK – PORTLAND ORANGE |
| * LA | STEADY LEFT ARROW |
| * RA | STEADY RIGHT ARROW |
| * VA | STEADY VERTICAL ARROW (GREEN PREFIX) |
| W | STEADY WALK – LUNAR WHITE |
| WCR | WHEEL CHAIR RAMP |

### GENERAL NOTES

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
3. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
4. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.
5. THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, REUSING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
6. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDED.
7. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
8. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
9. FIELD SURVEY PERFORMED BY BAYSIDE ENGINEERING, INC., DATED AUGUST 2011.

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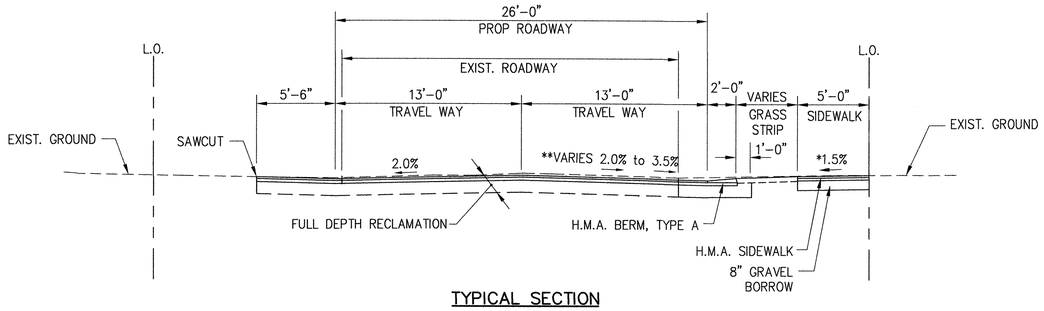
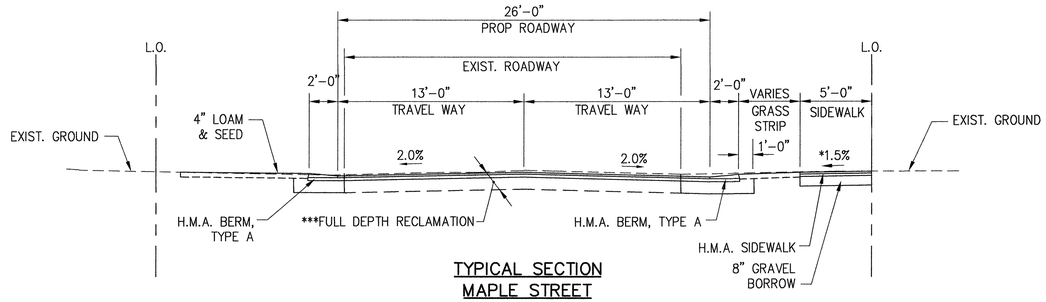
SHEET 3 OF 47
TYPICAL SECTIONS
& PAVEMENT NOTES




TYPICAL SECTION
MAPLE STREET
STA. 11+36 TO STA. 13+75
N.T.S.




TYPICAL SECTION
MAPLE STREET
STA. 13+75 TO STA. 17+00
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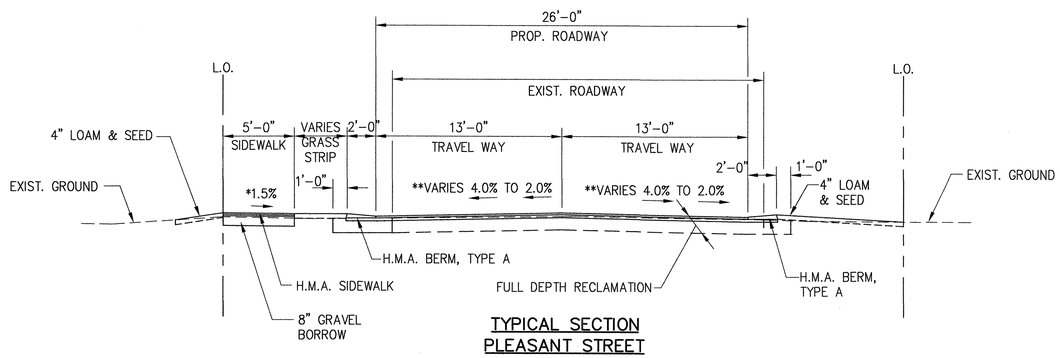
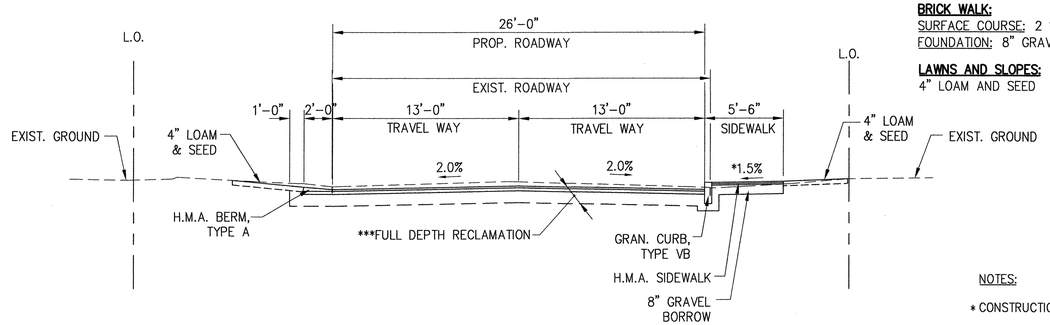



TYPICAL SECTION
PLEASANT STREET
STA. 20+91 TO STA. 27+36
N.T.S.




TYPICAL SECTION
PLEASANT STREET
STA. 27+96 TO STA. 29+87
N.T.S.

## PAVEMENT NOTES:

**ROADWAY PAVEMENT: (FULL DEPTH RECLAMATION)**
SURFACE COURSE: 1 1/2" MIN. HOT MIX ASPHALT PAVEMENT TOP COURSE MATERIAL.
BINDER COURSE: 2 1/2" HOT MIX ASPHALT PAVEMENT BINDER COURSE MATERIAL.
TACK COAT: APPLIED AT A RATE OF 0.05 GALLONS PER SQUARE YARD FOR BINDER COURSE.
FOUNDATION: 10" RECLAIMED PAVEMENT FOR SUB-BASE COURSE.

**ROADWAY PAVEMENT: (FULL DEPTH ROADWAY BOX EXCAVATION)**
SURFACE COURSE: 1 1/2" MIN. HOT MIX ASPHALT PAVEMENT TOP COURSE MATERIAL.
BINDER COURSE: 2 1/2" HOT MIX ASPHALT PAVEMENT BINDER COURSE MATERIAL.
TACK COAT: APPLIED AT A RATE OF 0.05 GALLONS PER SQUARE YARD FOR BINDER COURSE.
FOUNDATION: 4" DENSE GRADED CRUSHED STONE OVER 8" GRAVEL BORROW OR EXCESS RECLAIM PAVEMENT BORROW FOR SUB-BASE.

**ROADWAY PAVEMENT: (COLD PLANE AREAS)**
SURFACE COURSE: 1 1/2" MIN. HOT MIX ASPHALT PAVEMENT TOP COURSE MATERIAL.
TACK COAT: APPLIED AT A RATE OF 0.07 GALLONS PER SQUARE YARD.

**TEMPORARY PATCH:**
SURFACE COURSE: 4" HOT MIX ASPHALT BASE COURSE MATERIAL PLACED IN ONE LAYER.
FOUNDATION: EXISTING MATERIAL AND GRAVEL BORROW – TYPE D AS REQUIRED.

**HOT MIX ASPHALT WALK/SIDEWALK:**
SURFACE COURSE: 1 1/4" TOP COURSE MATERIAL PLACED OVER 1 1/4" BINDER COURSE MATERIAL.
FOUNDATION: 8" GRAVEL BORROW, OR EXCESS RECLAIM PAVEMENT BORROW FOR SUB-BASE.

**HOT MIX ASPHALT DRIVEWAY / HOT MIX ASPHALT SIDEWALK AT DRIVEWAY:**
SURFACE COURSE: 3 1/2" HOT MIX ASPHALT PAVEMENT PLACED IN TWO LAYERS, 1 1/2" MODIFIED TOP COURSE OVER 2" BINDER COURSE.
FOUNDATION: 8" GRAVEL BORROW, OR EXCESS RECLAIM PAVEMENT BORROW FOR SUB-BASE.

**CEMENT CONCRETE WALKS / WHEELCHAIR RAMPS:**
SURFACE COURSE: 4" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, 3/4", 610
FOUNDATION: 8" GRAVEL BORROW, OR EXCESS RECLAIM PAVEMENT BORROW FOR SUB-BASE.

**CEMENT CONCRETE SIDEWALK AT DRIVEWAY:**
SURFACE COURSE: 6" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, 3/4", 610
FOUNDATION: 8" GRAVEL BORROW, OR EXCESS RECLAIM PAVEMENT BORROW FOR SUB-BASE.

**GRAVEL DRIVEWAY:**
SURFACE COURSE: 4" STONE DUST.
FOUNDATION: 8" GRAVEL BORROW, OR EXCESS RECLAIM PAVEMENT BORROW FOR SUB-BASE.

**BRICK WALK:**
SURFACE COURSE: 2 1/4" BRICK
FOUNDATION: 8" GRAVEL BORROW

**LAWNS AND SLOPES:**
4" LOAM AND SEED

NOTES:

* CONSTRUCTION TOLERANCE ± 0.5%.

** SEE CROSS SECTIONS FOR CROSS SLOPES AND CROSS SLOPE TRANSITIONS.

*** SEE CONSTRUCTION PLANS FOR FULL DEPTH ROADWAY BOX EXCAVATION LOCATIONS

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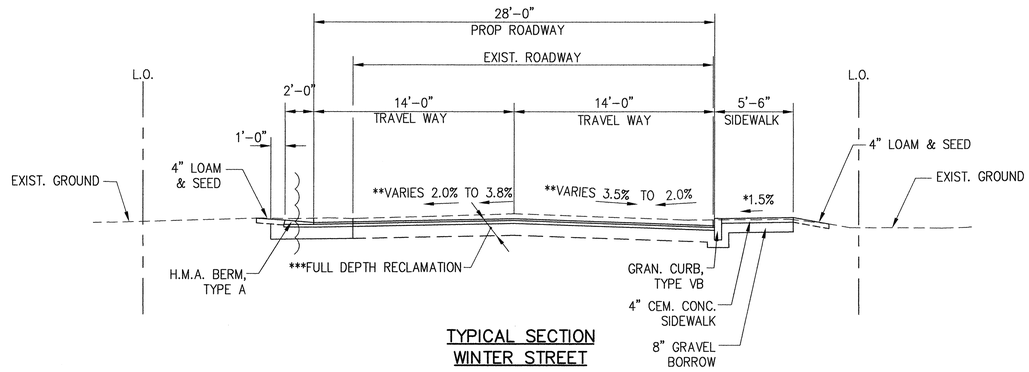
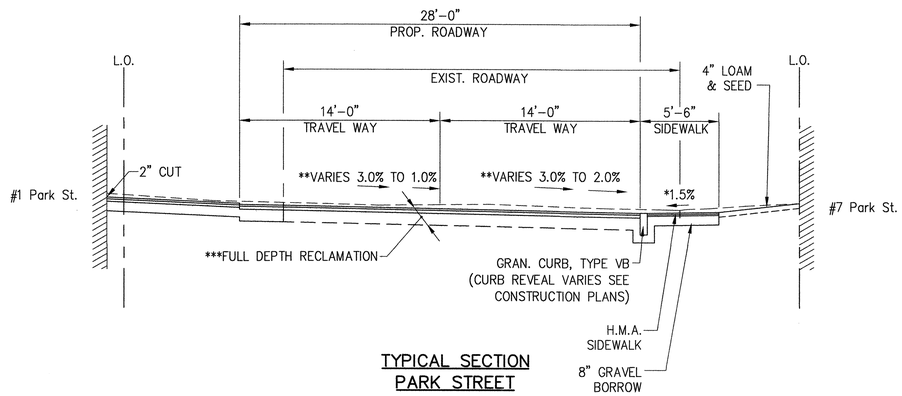
SHEET 4 OF 47
TYPICAL SECTIONS
& PAVEMENT NOTES




TYPICAL SECTION
WINTER STREET
STA. 40+40 TO STA. 43+13
N.T.S.




TYPICAL SECTION
PARK STREET
STA. 31+26 TO STA. 32+25
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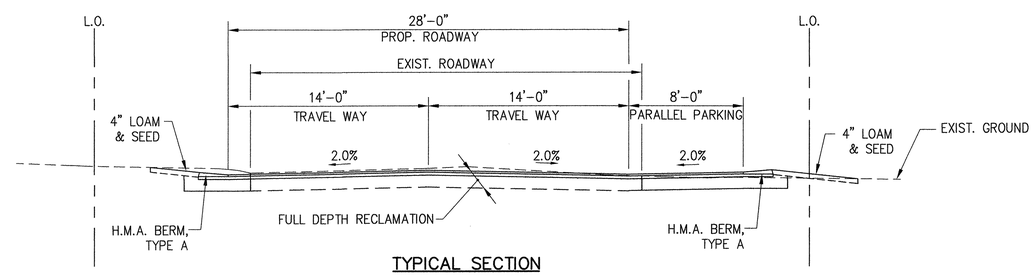


TYPICAL SECTION
PARK STREET
STA. 33+97 TO STA. 35+02
N.T.S.

NOTES:

* CONSTRUCTION TOLERANCE ± 0.5%.

** SEE CROSS SECTIONS FOR CROSS SLOPES AND CROSS SLOPE TRANSITIONS.

*** SEE CONSTRUCTION PLANS FOR FULL DEPTH ROADWAY BOX EXCAVATION LOCATIONS

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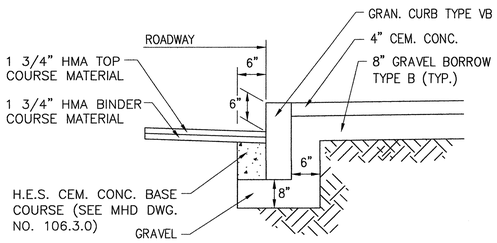
GEORGETOWN
LIBRARY SQUARE

SHEET 5 OF 47
CONSTRUCTION DETAILS




## METHOD OF SETTING VERTICAL CURB

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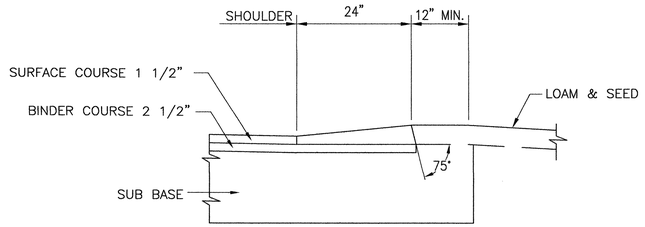
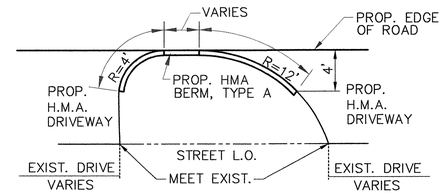



## HOT MIX ASPHALT BERM TYPE A

N.T.S.




## BERM DETAIL (DRIVEWAYS WITHIN CLOSE PROXIMITY)

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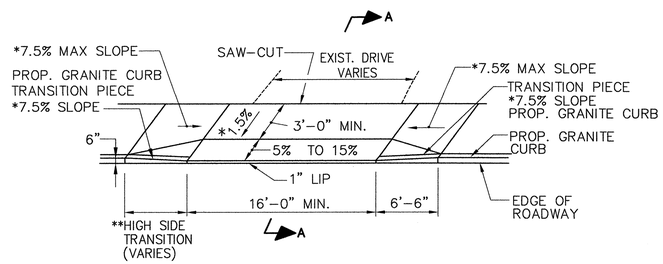
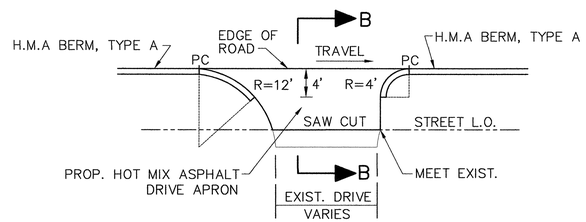



* CONSTRUCTION TOLERANCE ± 0.5%

**NOTE: SEE MASSDOT CONSTRUCTION STANDARD E 107.9.0

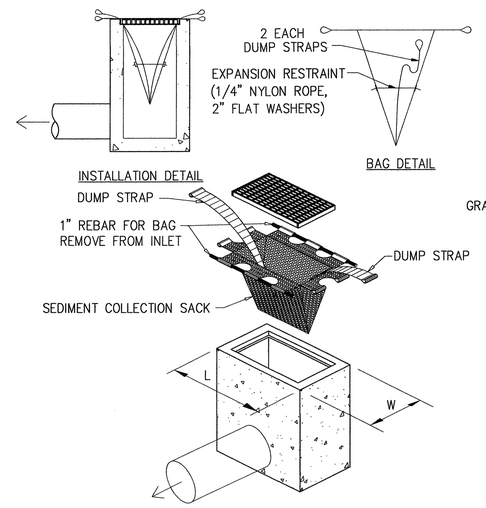
## TYPICAL DRIVEWAY ENTRANCE (WITH SIDEWALK DIRECTLY ADJACENT TO CURB)

N.T.S.




## TYPICAL DRIVEWAY DETAIL (NON SIDEWALK SIDE OR SIDEWALK WITH GRASS STRIP)

N.T.S.




## SILT SACK DETAIL

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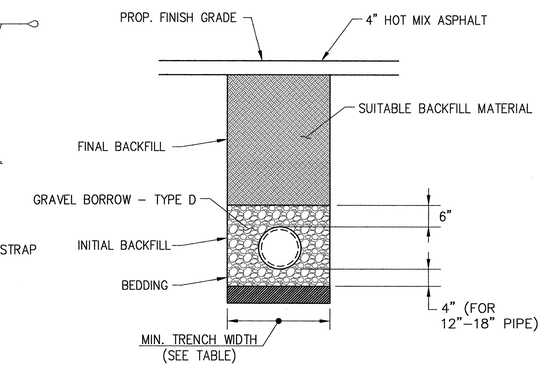


NOTES:
1. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
2. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER.
AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

## DRAINAGE PIPE TRENCH DETAIL

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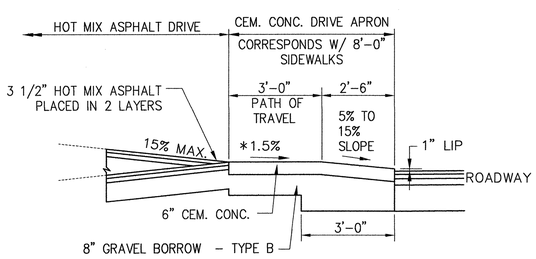


## SECTION A–A

* CONSTRUCTION TOLERANCE ± 0.5%

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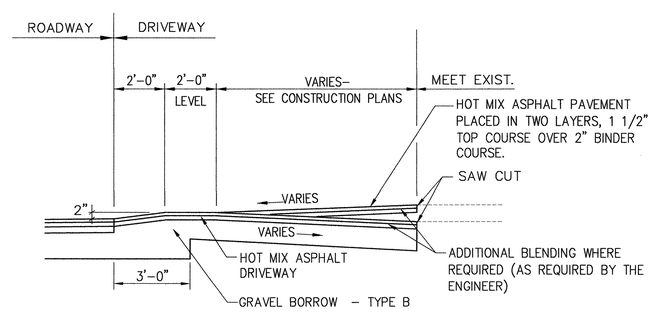
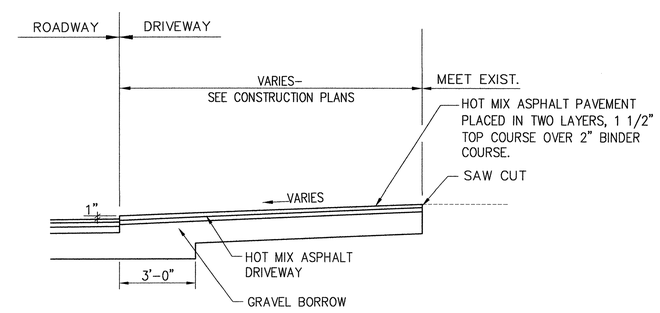



## SECTION B–B
## TYPICAL DRIVEWAY IN AREAS OF PROPOSED H.M.A BERM, TYPE A (RAISED APRON)

N.T.S.




## SECTION B–B
## *ALTERNATE TYPICAL DRIVEWAY IN AREAS OF PROPOSED H.M.A BERM, TYPE A (1" LIP)

N.T.S.

* SEE CROSS SECTIONS FOR LOCATIONS

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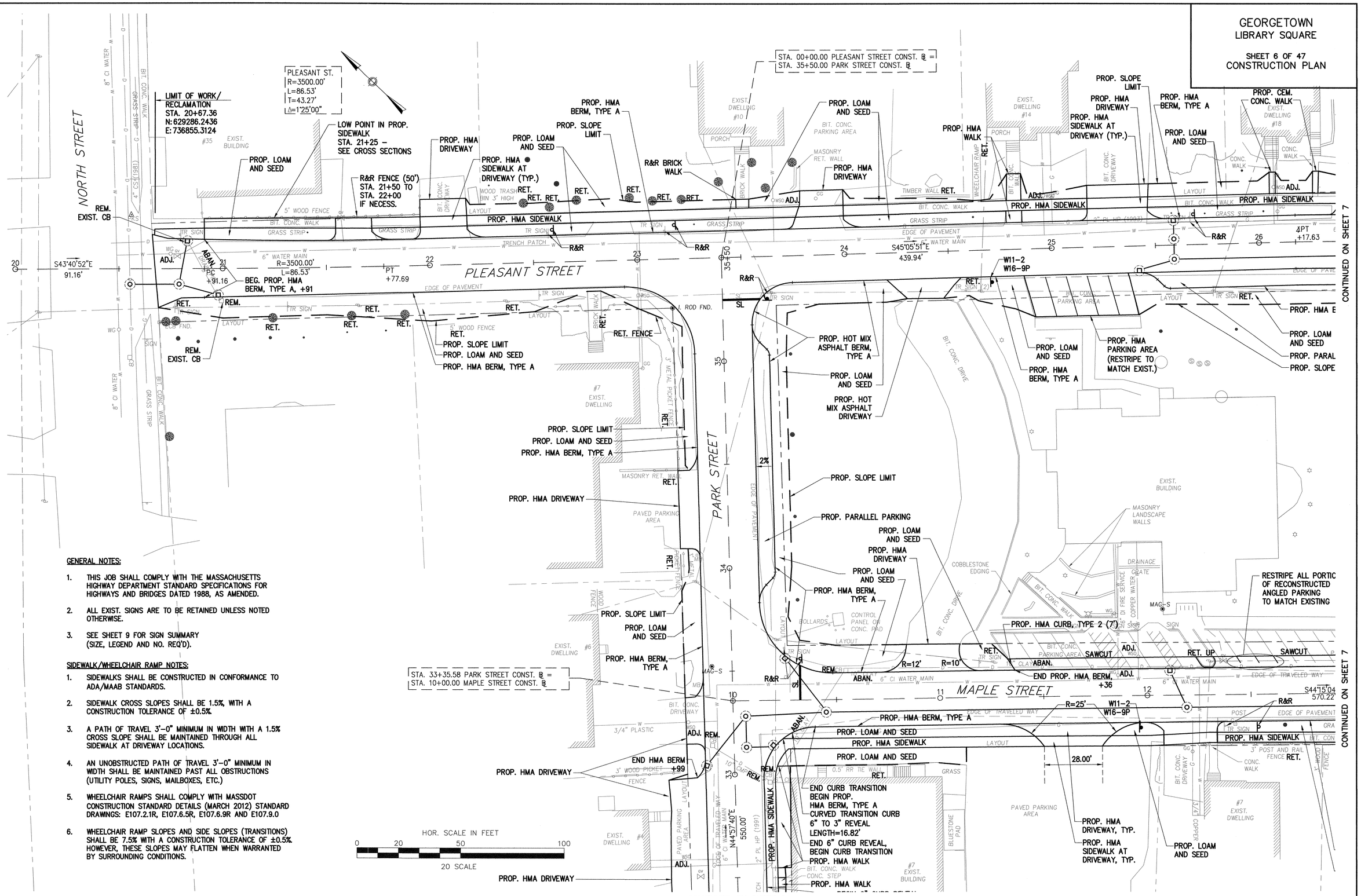
# GEORGETOWN LIBRARY SQUARE

SHEET 6 OF 47
CONSTRUCTION PLAN




CONTINUED ON SHEET 7

CONTINUED ON SHEET 9

**GENERAL NOTES:**

1. THIS JOB SHALL COMPLY WITH THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED.
2. ALL EXIST. SIGNS ARE TO BE RETAINED UNLESS NOTED OTHERWISE.
3. SEE SHEET 9 FOR SIGN SUMMARY (SIZE, LEGEND AND NO. REQ'D).

**SIDEWALK/WHEELCHAIR RAMP NOTES:**

1. SIDEWALKS SHALL BE CONSTRUCTED IN CONFORMANCE TO ADA/MAAB STANDARDS.
2. SIDEWALK CROSS SLOPES SHALL BE 1.5%, WITH A CONSTRUCTION TOLERANCE OF ±0.5%.
3. A PATH OF TRAVEL 3'-0" MINIMUM IN WIDTH WITH A 1.5% CROSS SLOPE SHALL BE MAINTAINED THROUGH ALL SIDEWALK AT DRIVEWAY LOCATIONS.
4. AN UNOBSTRUCTED PATH OF TRAVEL 3'-0" MINIMUM IN WIDTH SHALL BE MAINTAINED PAST ALL OBSTRUCTIONS (UTILITY POLES, SIGNS, MAILBOXES, ETC.)
5. WHEELCHAIR RAMPS SHALL COMPLY WITH MASSDOT CONSTRUCTION STANDARD DETAILS (MARCH 2012) STANDARD DRAWINGS: E107.2.1R, E107.6.5R, E107.6.9R AND E107.9.0
6. WHEELCHAIR RAMP SLOPES AND SIDE SLOPES (TRANSITIONS) SHALL BE 7.5% WITH A CONSTRUCTION TOLERANCE OF ±0.5%. HOWEVER, THESE SLOPES MAY FLATTEN WHEN WARRANTED BY SURROUNDING CONDITIONS.

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# GEORGETOWN
## LIBRARY SQUARE

SHEET 7 OF 47
CONSTRUCTION PLAN

PROP. FULL DEPTH ROADWAY BOX EXCAVATION

**GENERAL NOTES:**

1. THIS JOB SHALL COMPLY WITH THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED.
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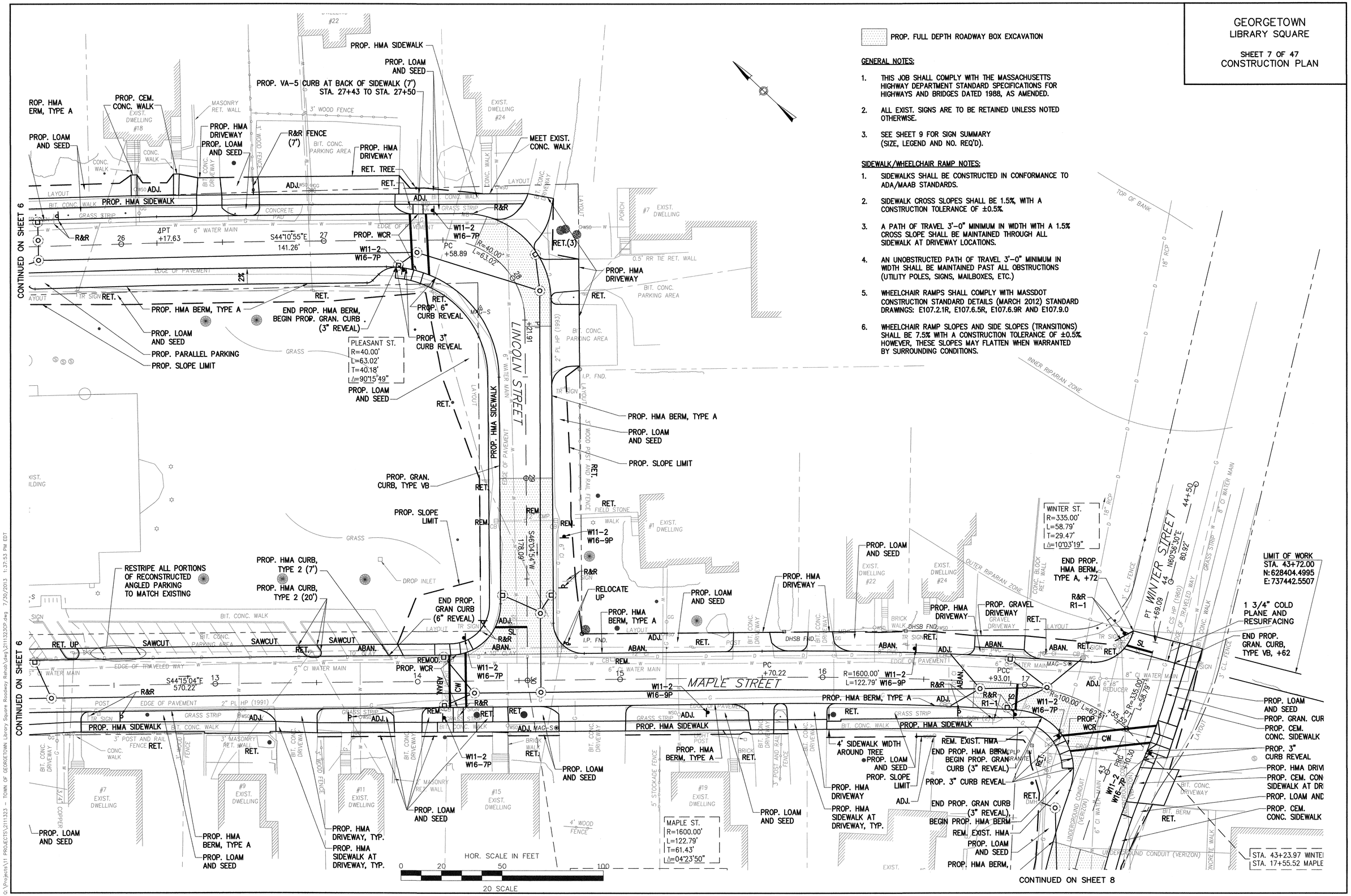


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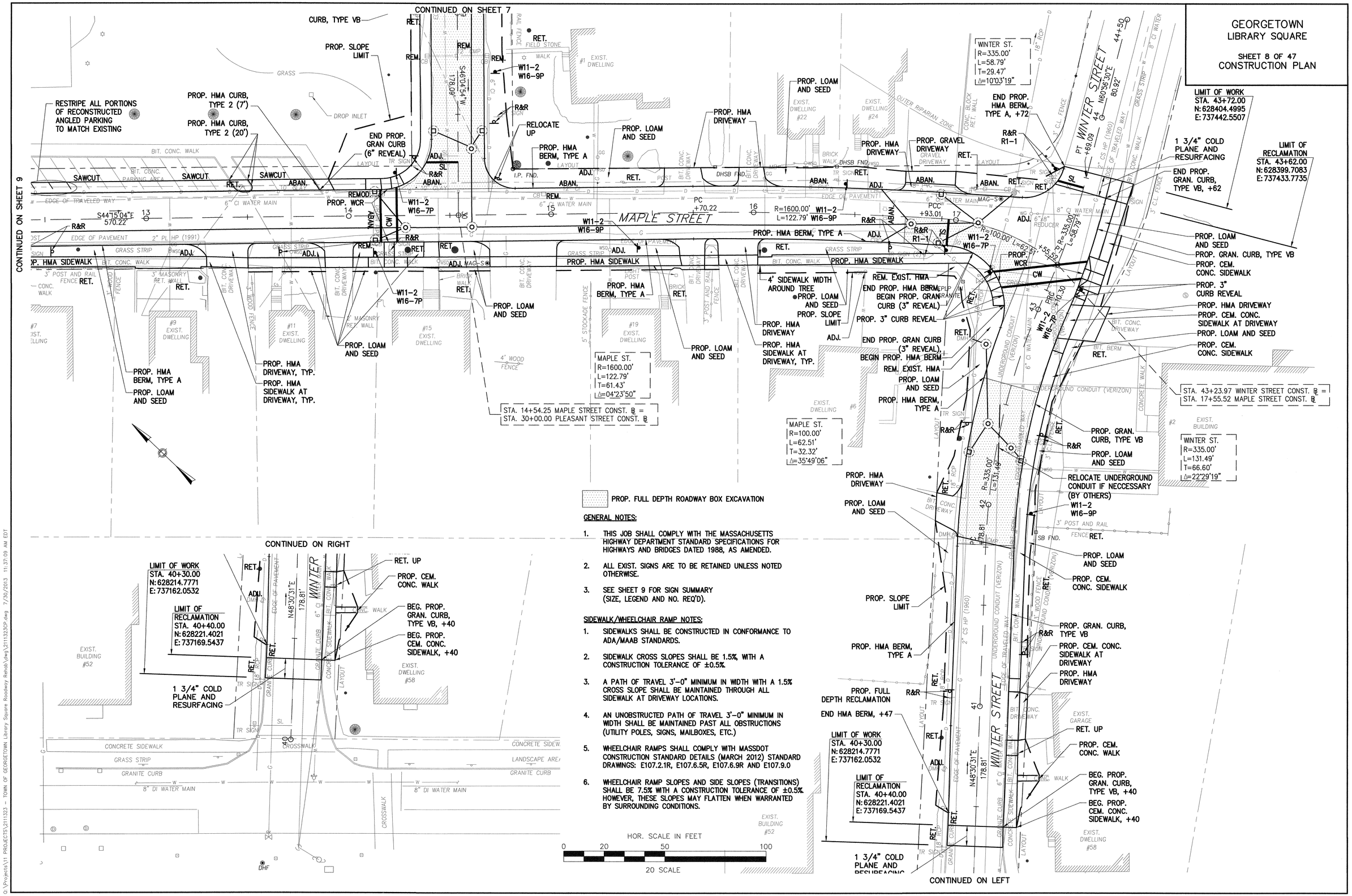
# GEORGETOWN LIBRARY SQUARE

SHEET 8 OF 47
CONSTRUCTION PLAN




**GENERAL NOTES:**

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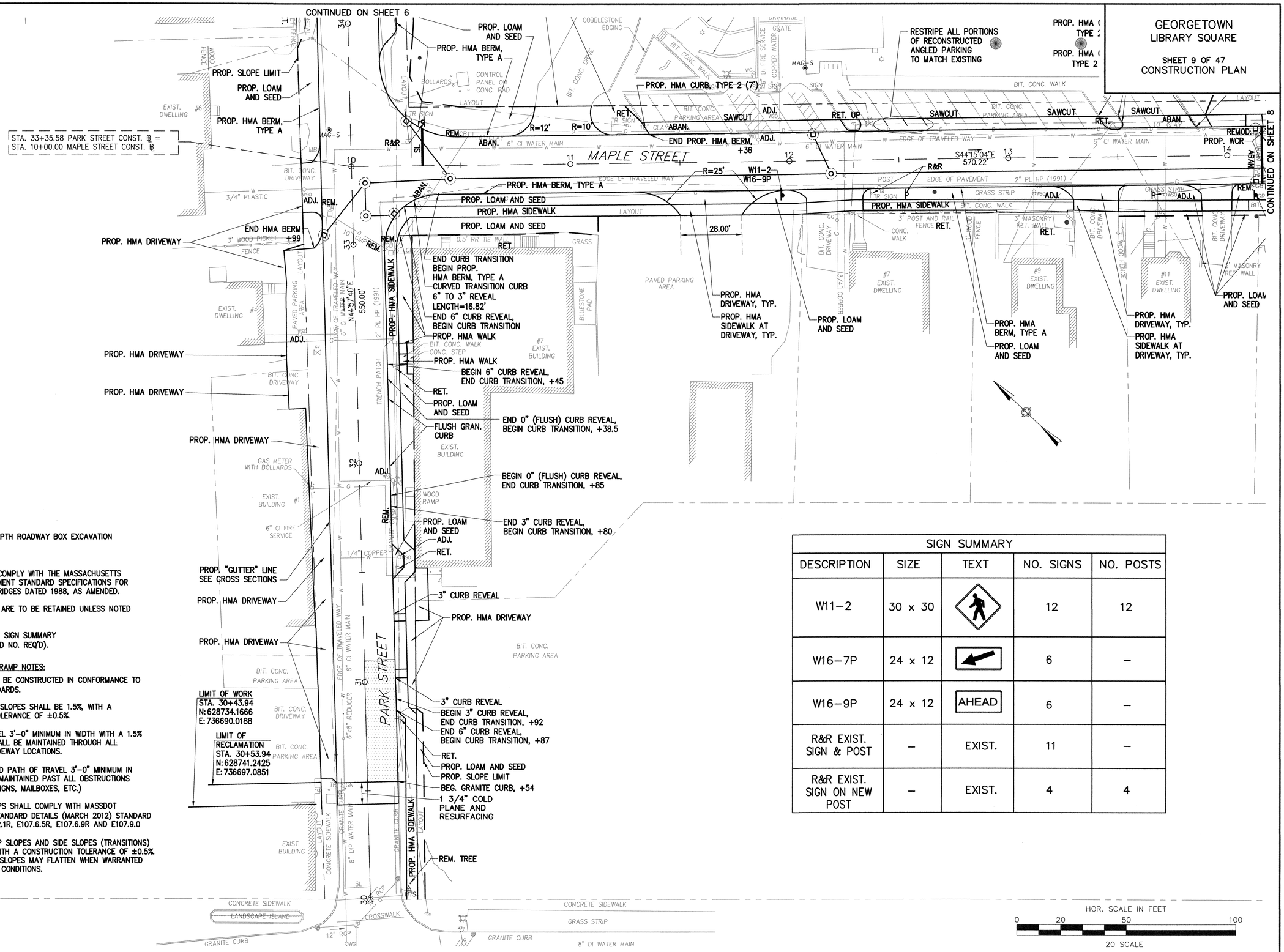
# GEORGETOWN LIBRARY SQUARE

SHEET 9 OF 47
CONSTRUCTION PLAN




PROP. FULL DEPTH ROADWAY BOX EXCAVATION

**GENERAL NOTES:**

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**SIDEWALK/WHEELCHAIR RAMP NOTES:**

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**SIGN SUMMARY**

| DESCRIPTION | SIZE | TEXT | NO. SIGNS | NO. POSTS |
|---|---|---|---|---|
| W11-2 | 30 x 30 | | 12 | 12 |
| W16-7P | 24 x 12 | | 6 | – |
| W16-9P | 24 x 12 | AHEAD | 6 | – |
| R&R EXIST. SIGN & POST | – | EXIST. | 11 | – |
| R&R EXIST. SIGN ON NEW POST | – | EXIST. | 4 | 4 |

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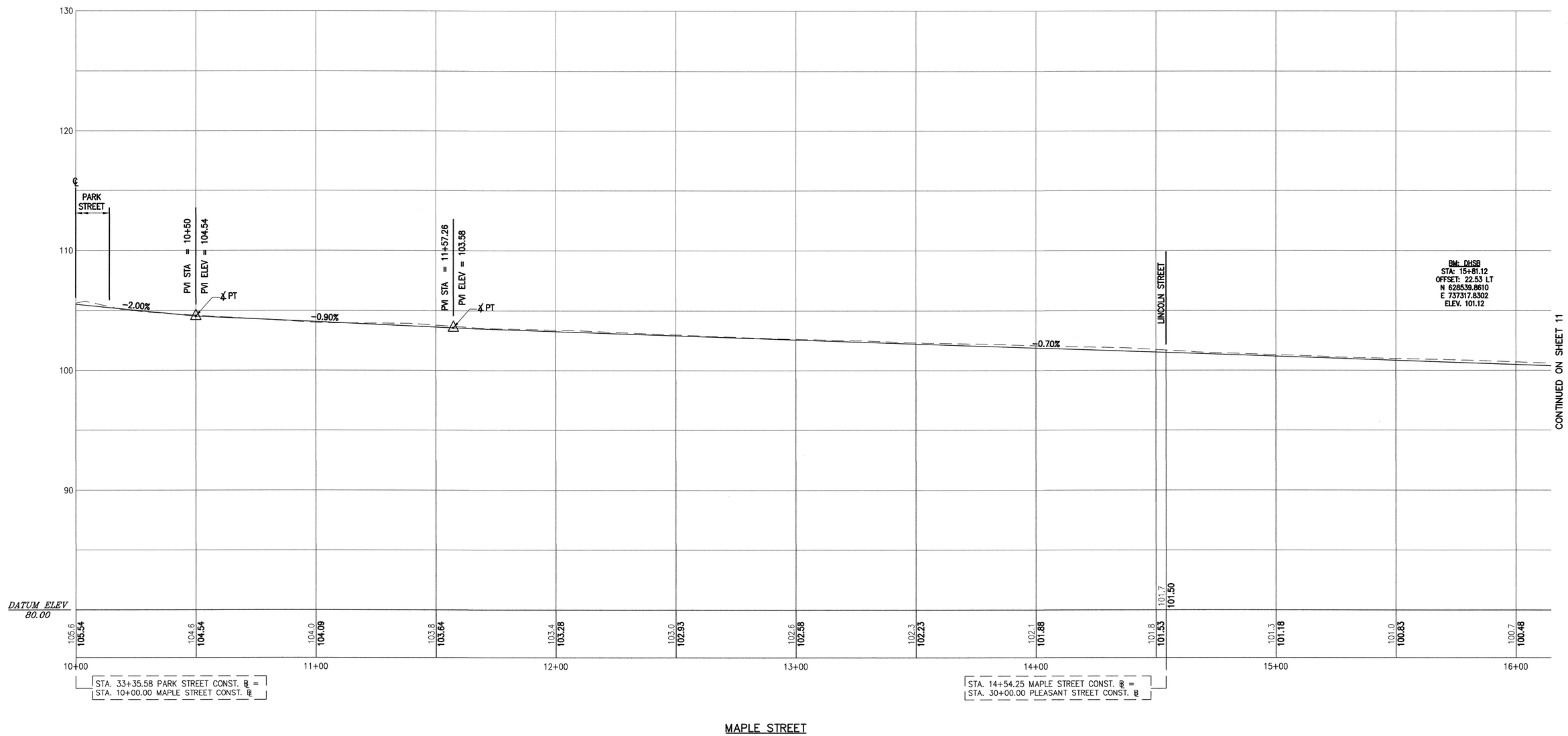
GEORGETOWN
LIBRARY SQUARE

SHEET 10 OF 47
PROFILE




MAPLE STREET

SCALE: 1"=20'
HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET
SCALE: 1"=4'

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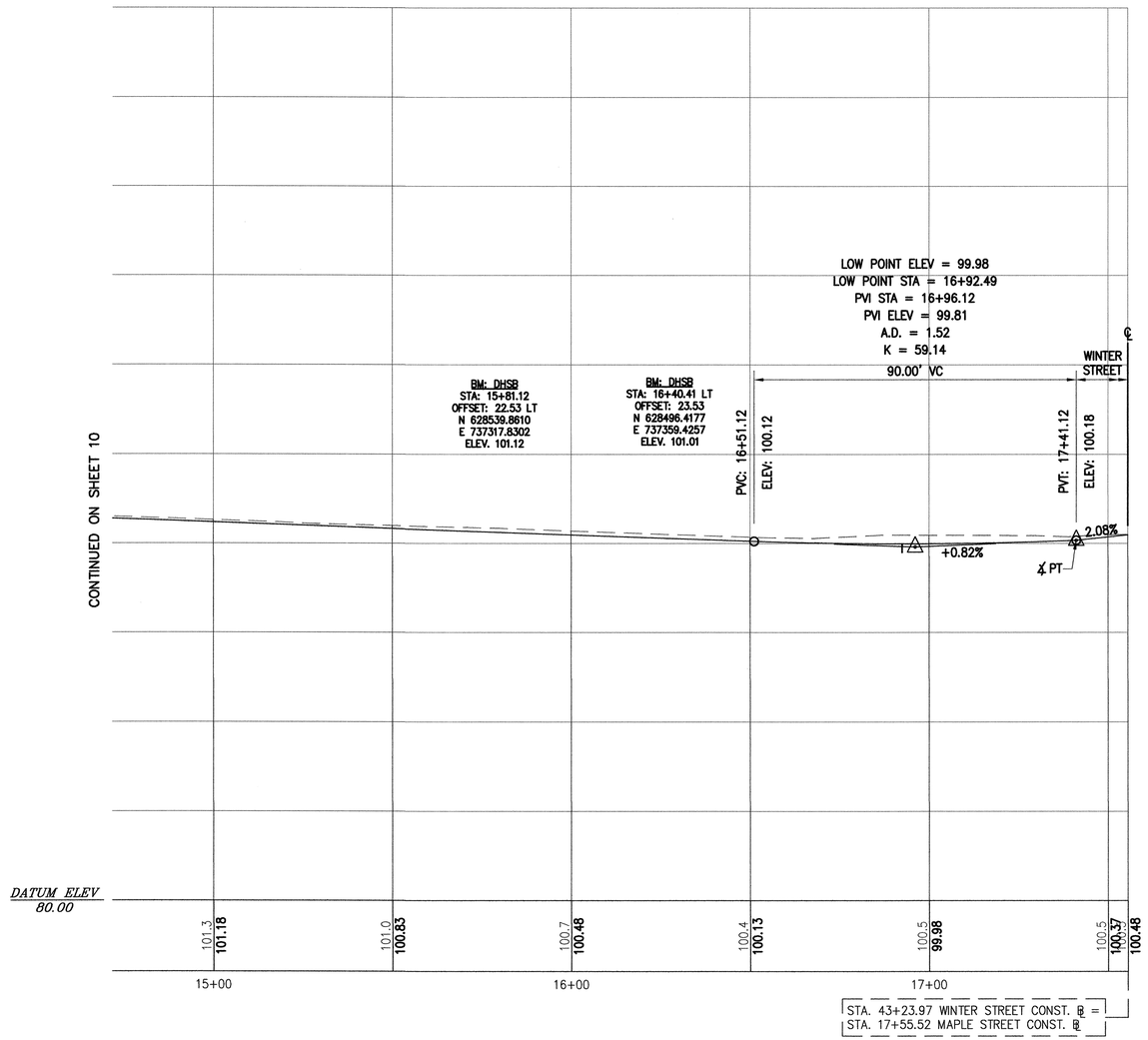
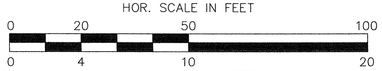
GEORGETOWN
LIBRARY SQUARE

SHEET 11 OF 47
PROFILE




MAPLE STREET

SCALE: 1"=20'
HOR. SCALE IN FEET




VERT. SCALE IN FEET
SCALE: 1"=4'

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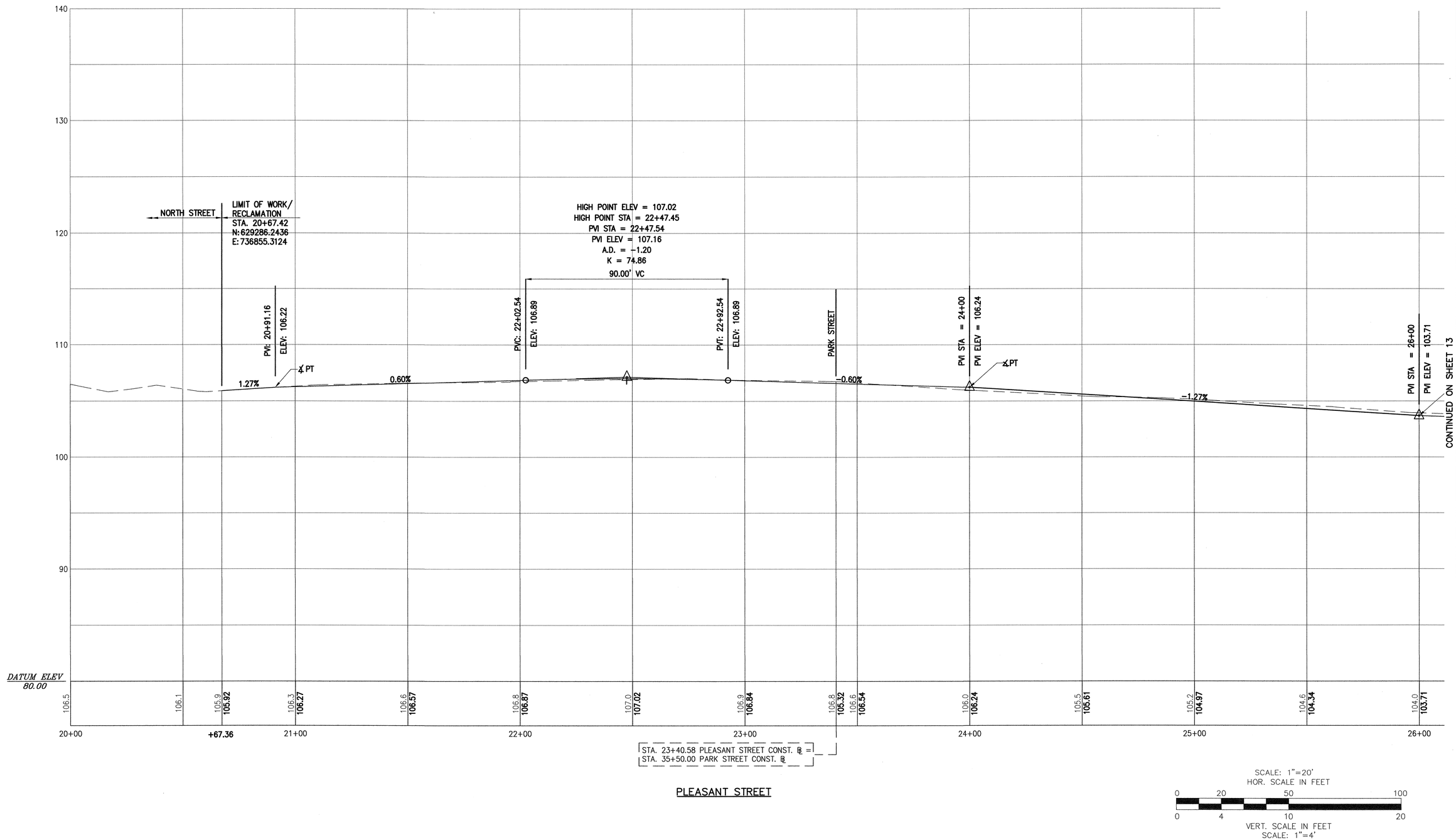
GEORGETOWN
LIBRARY SQUARE

SHEET 12 OF 47
PROFILE

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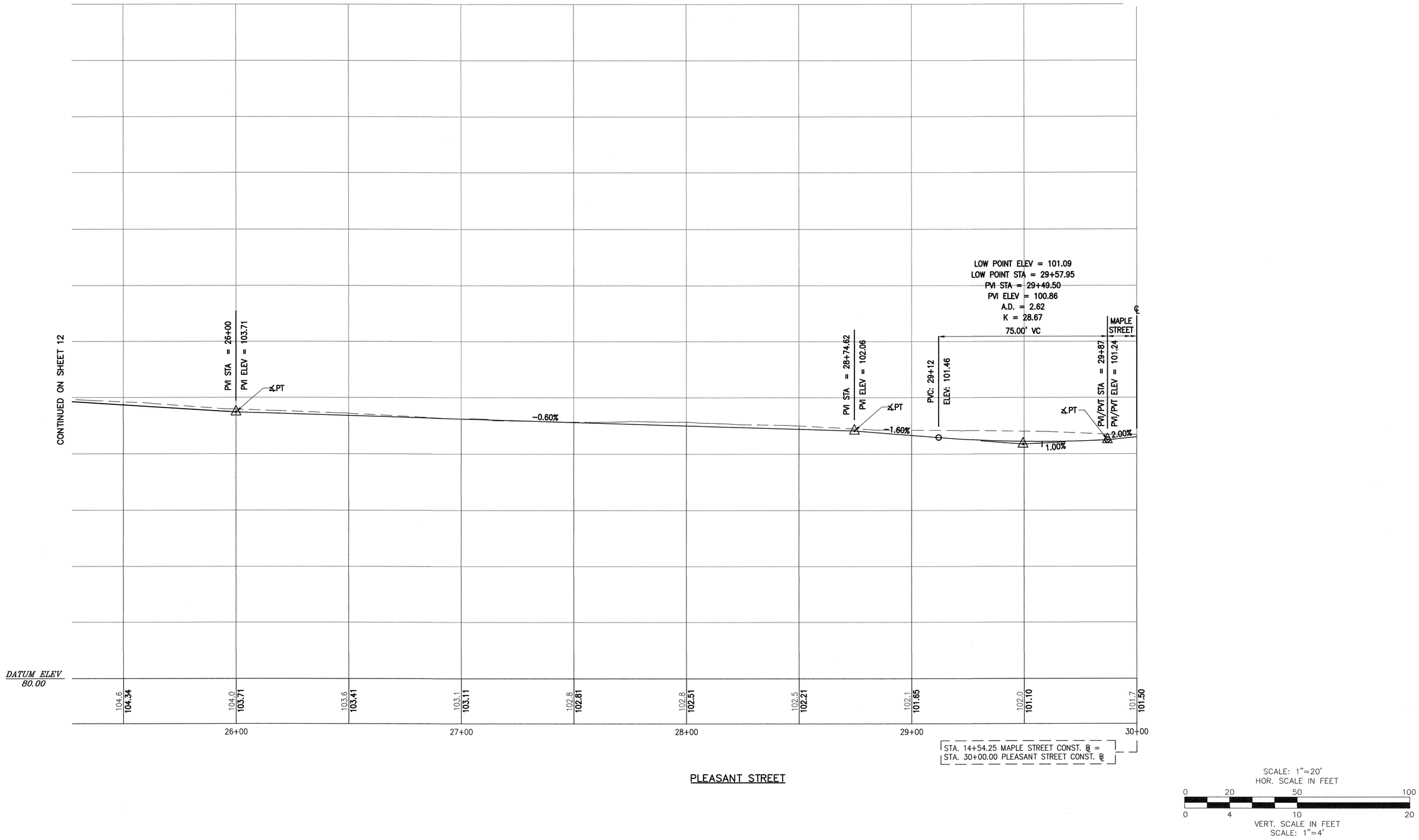
GEORGETOWN
LIBRARY SQUARE

SHEET 13 OF 47
PROFILE

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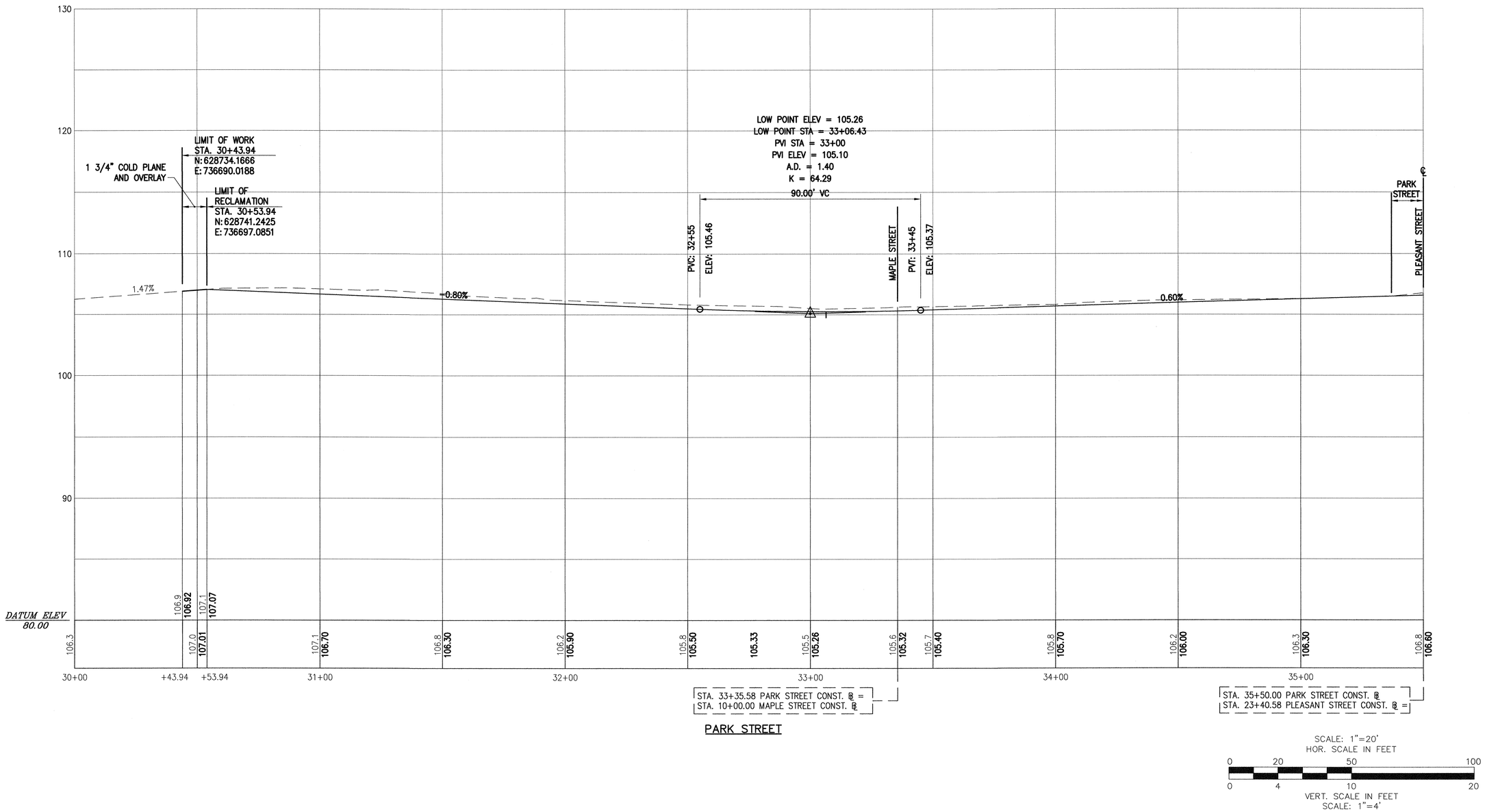
GEORGETOWN
LIBRARY SQUARE

SHEET 14 OF 47
PROFILE

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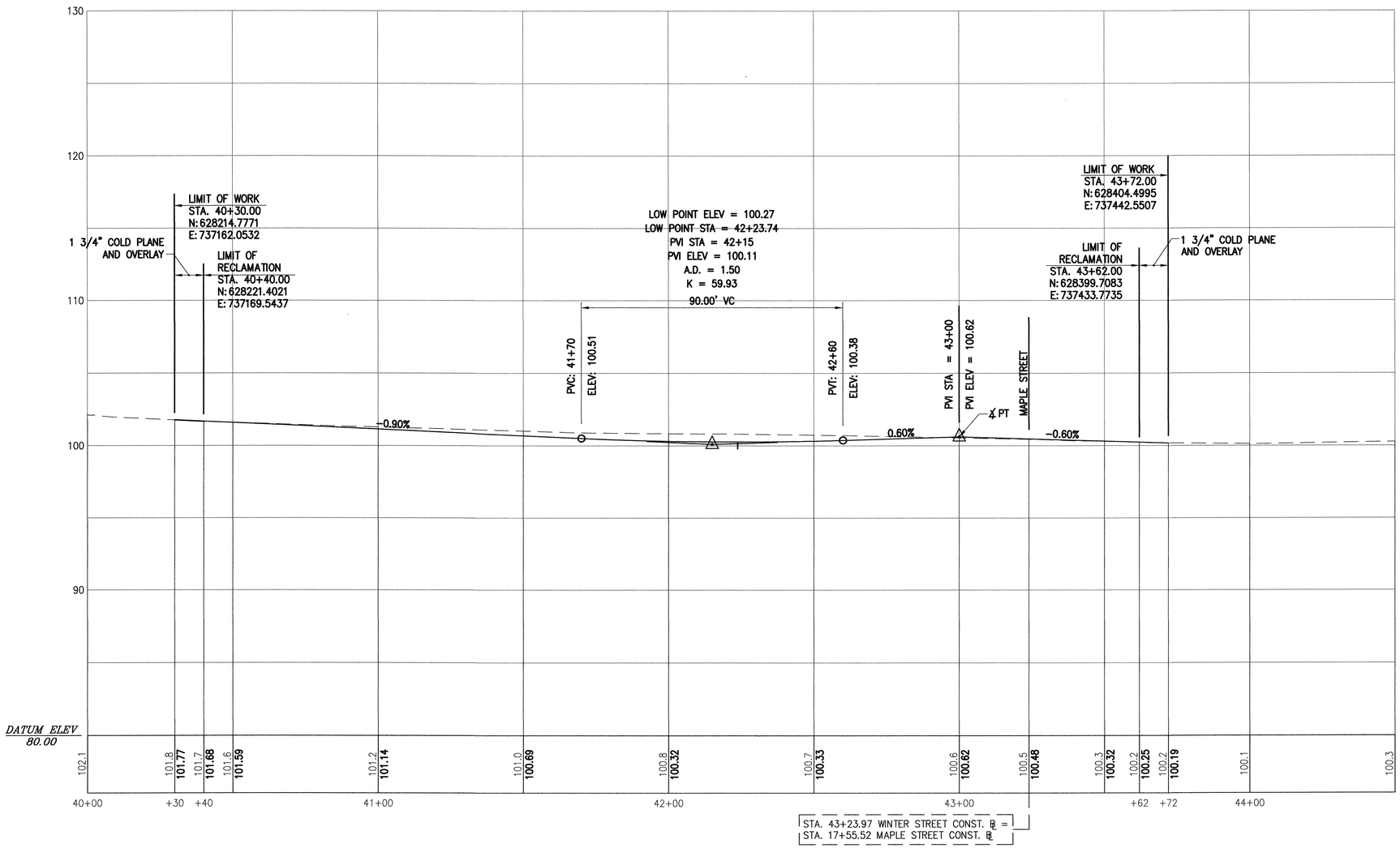
GEORGETOWN
LIBRARY SQUARE

SHEET 15 OF 47
PROFILE




WINTER STREET

SCALE: 1"=20'
HOR. SCALE IN FEET
0 20 50 100
0 4 10 20
VERT. SCALE IN FEET
SCALE: 1"=4'

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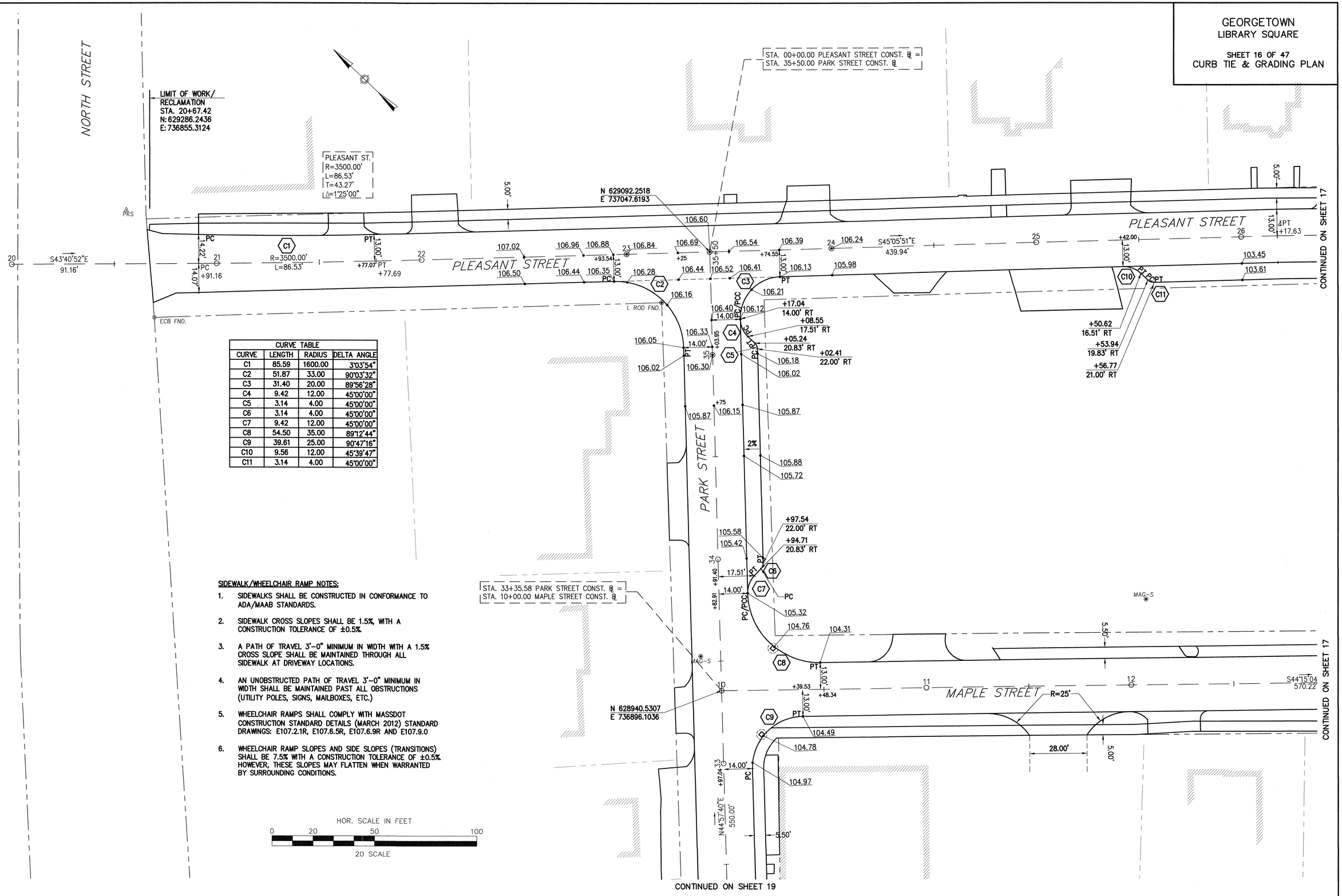
# GEORGETOWN
## LIBRARY SQUARE

SHEET 16 OF 47
CURB TIE & GRADING PLAN




| CURVE TABLE | | | |
|---|---|---|---|
| CURVE | LENGTH | RADIUS | DELTA ANGLE |
| C1 | 85.59 | 1600.00 | 3°03'54" |
| C2 | 51.87 | 33.00 | 90°03'32" |
| C3 | 31.40 | 20.00 | 89°56'28" |
| C4 | 9.42 | 12.00 | 45°00'00" |
| C5 | 3.14 | 4.00 | 45°00'00" |
| C6 | 3.14 | 4.00 | 45°00'00" |
| C7 | 9.42 | 12.00 | 45°00'00" |
| C8 | 54.50 | 35.00 | 89°12'44" |
| C9 | 39.61 | 25.00 | 90°47'16" |
| C10 | 9.56 | 12.00 | 45°39'47" |
| C11 | 3.14 | 4.00 | 45°00'00" |

**SIDEWALK/WHEELCHAIR RAMP NOTES:**

1. SIDEWALKS SHALL BE CONSTRUCTED IN CONFORMANCE TO ADA/MAAB STANDARDS.
2. SIDEWALK CROSS SLOPES SHALL BE 1.5%, WITH A CONSTRUCTION TOLERANCE OF ±0.5%.
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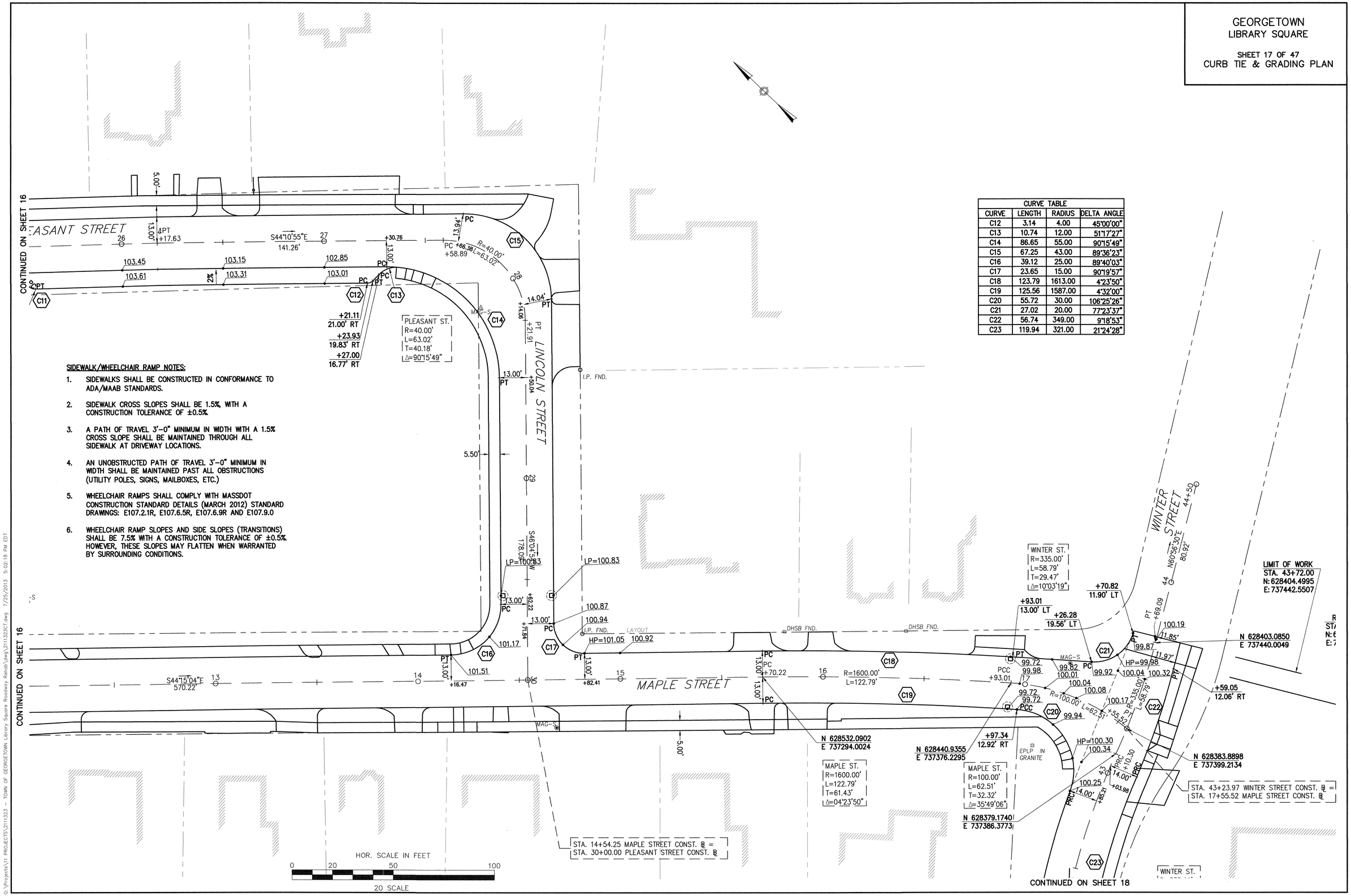
GEORGETOWN
LIBRARY SQUARE

SHEET 17 OF 47
CURB TIE & GRADING PLAN




SIDEWALK/WHEELCHAIR RAMP NOTES:

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CURVE TABLE

| CURVE | LENGTH | RADIUS | DELTA ANGLE |
|---|---|---|---|
| C12 | 3.14 | 4.00 | 45°00'00" |
| C13 | 10.74 | 12.00 | 51°17'27" |
| C14 | 86.65 | 55.00 | 90°15'49" |
| C15 | 67.25 | 43.00 | 89°36'23" |
| C16 | 39.12 | 25.00 | 89°40'03" |
| C17 | 23.65 | 15.00 | 90°19'57" |
| C18 | 123.79 | 1613.00 | 4°23'50" |
| C19 | 125.56 | 1587.00 | 4°32'00" |
| C20 | 55.72 | 30.00 | 106°25'26" |
| C21 | 27.02 | 20.00 | 77°23'37" |
| C22 | 56.74 | 349.00 | 9°18'53" |
| C23 | 119.94 | 321.00 | 21°24'28" |

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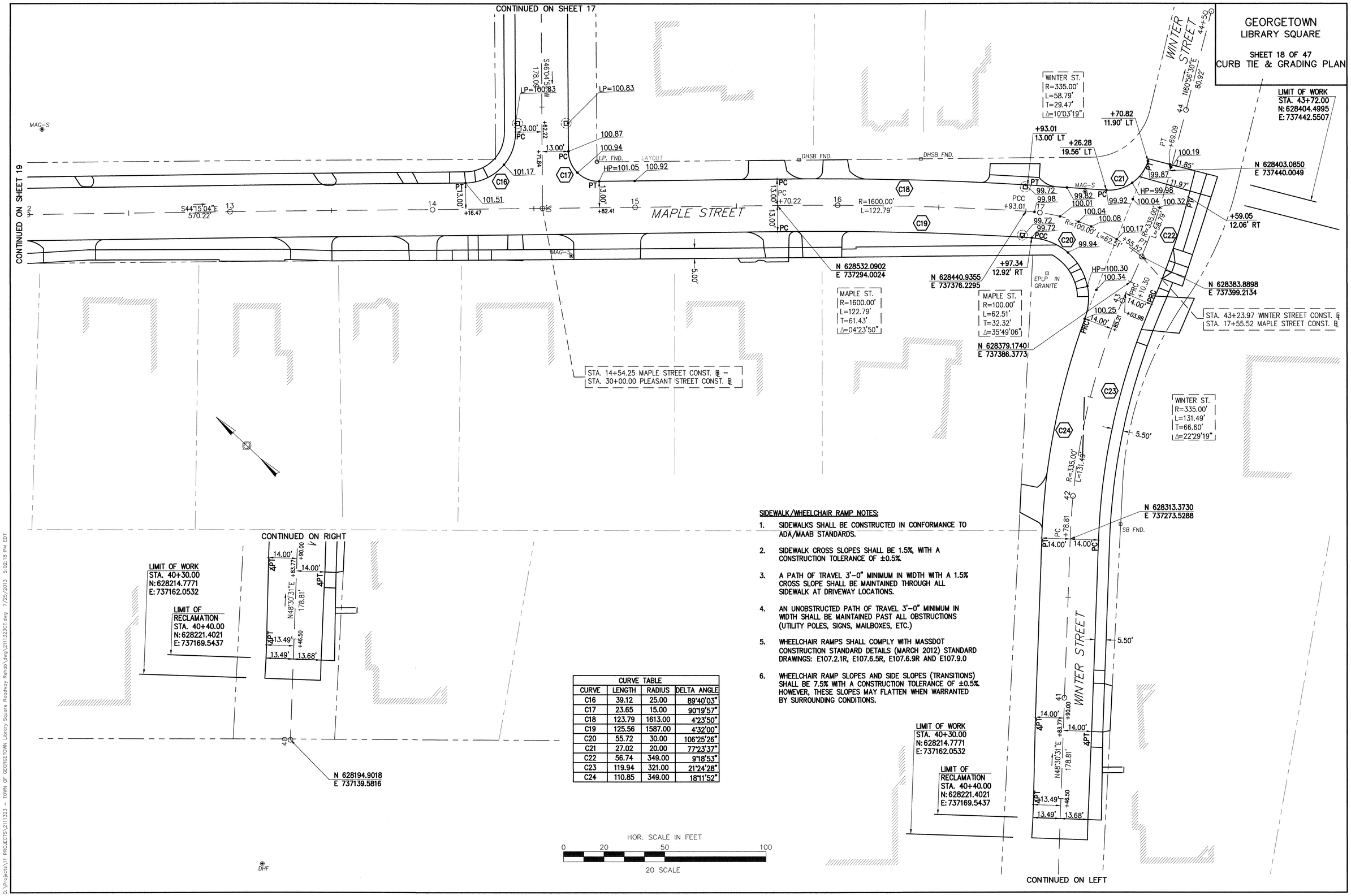
# GEORGETOWN
## LIBRARY SQUARE

SHEET 18 OF 47
CURB TIE & GRADING PLAN

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CURVE TABLE

| CURVE | LENGTH | RADIUS | DELTA ANGLE |
|---|---|---|---|
| C16 | 39.12 | 25.00 | 89°40'03" |
| C17 | 23.65 | 15.00 | 90°19'57" |
| C18 | 123.79 | 1613.00 | 4°23'50" |
| C19 | 125.56 | 1587.00 | 4°32'00" |
| C20 | 55.72 | 30.00 | 106°25'26" |
| C21 | 27.02 | 20.00 | 77°23'37" |
| C22 | 56.74 | 349.00 | 9°18'53" |
| C23 | 119.94 | 321.00 | 21°24'28" |
| C24 | 110.85 | 349.00 | 18°11'52" |

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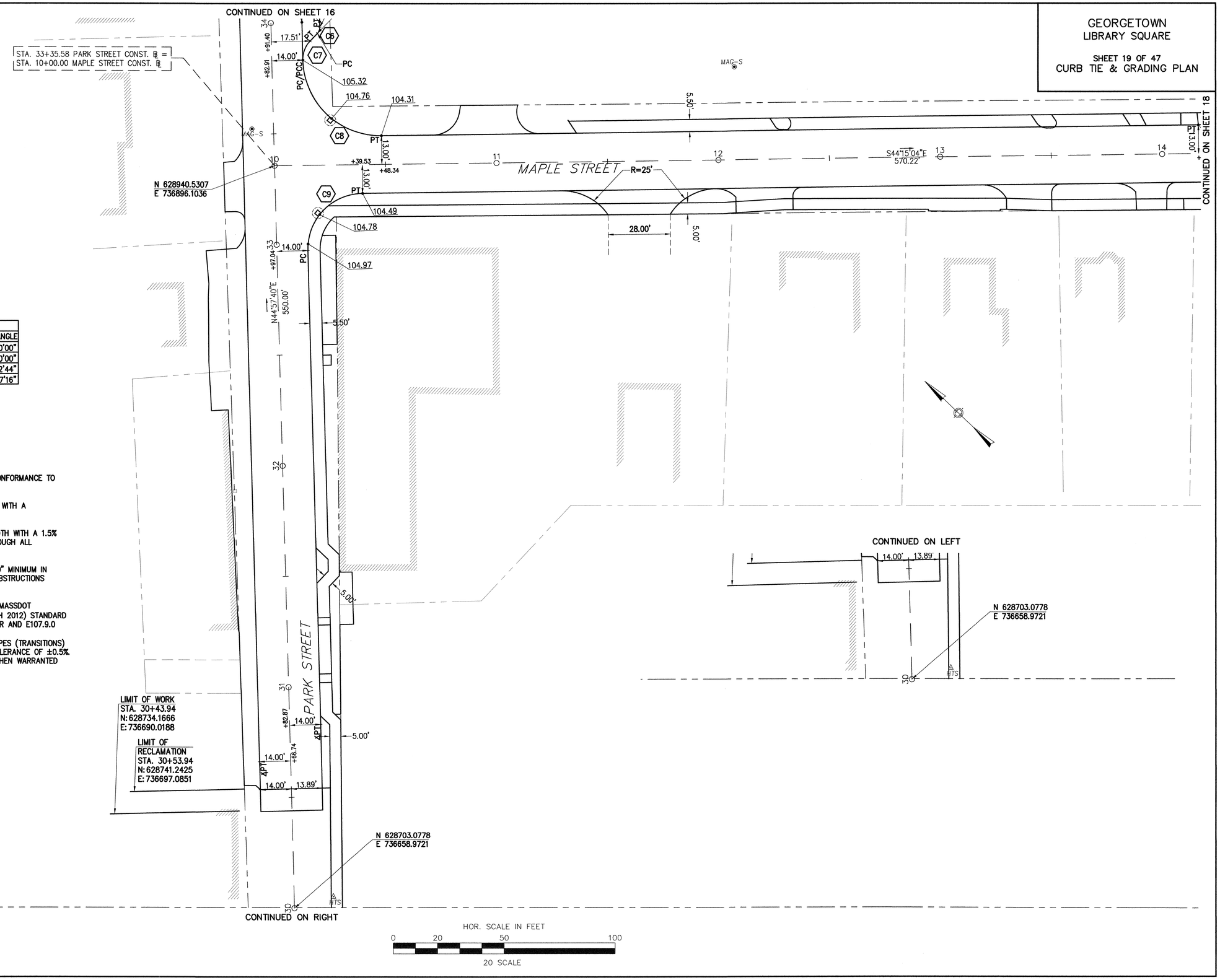
GEORGETOWN
LIBRARY SQUARE

SHEET 19 OF 47
CURB TIE & GRADING PLAN




| CURVE TABLE | | | |
|---|---|---|---|
| CURVE | LENGTH | RADIUS | DELTA ANGLE |
| C6 | 3.14 | 4.00 | 45°00'00" |
| C7 | 9.42 | 12.00 | 45°00'00" |
| C8 | 54.50 | 35.00 | 89°12'44" |
| C9 | 39.61 | 25.00 | 90°47'16" |

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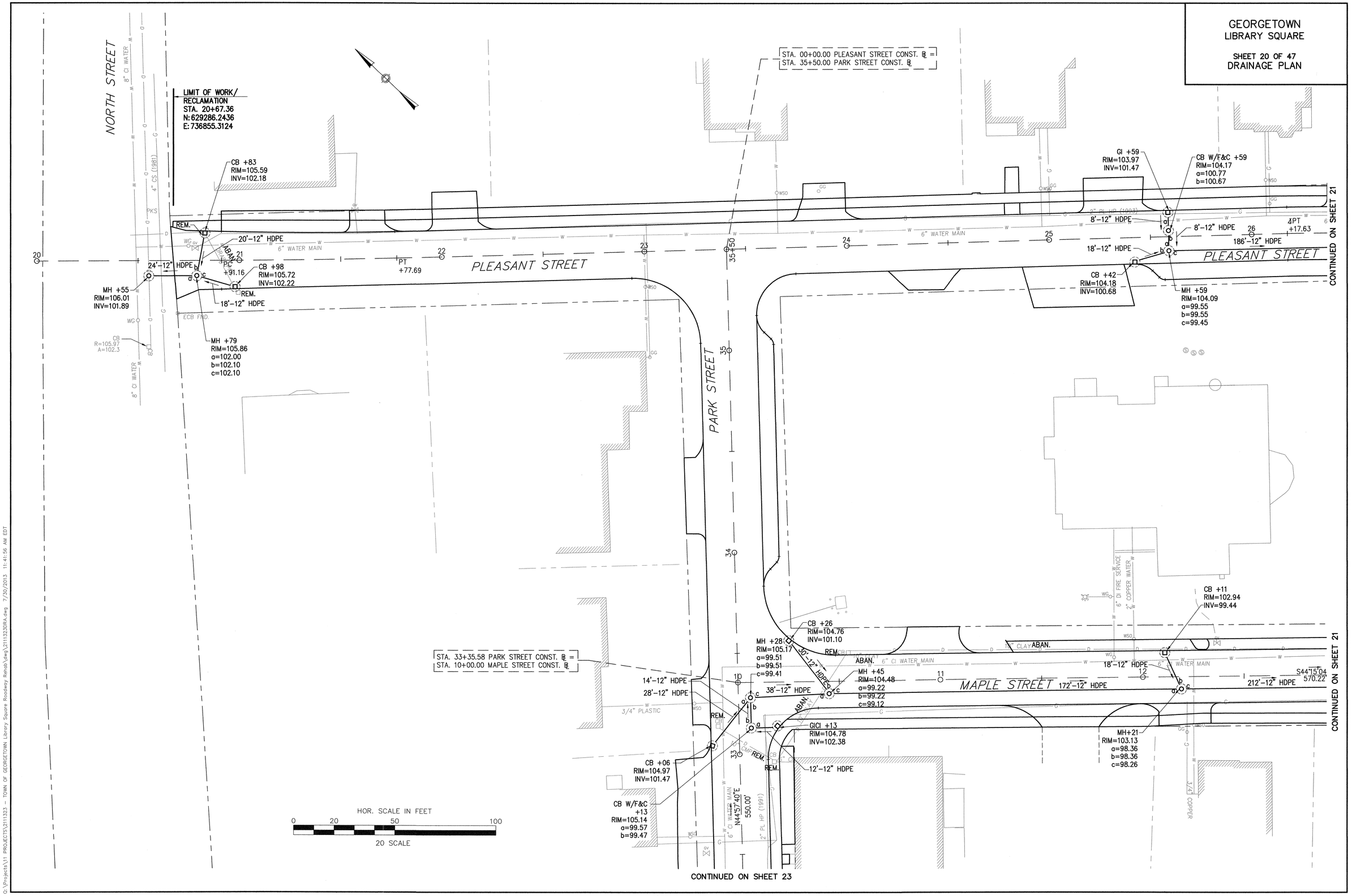
GEORGETOWN
LIBRARY SQUARE

SHEET 20 OF 47
DRAINAGE PLAN

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CONTINUED ON SHEET 21

CONTINUED ON SHEET 23

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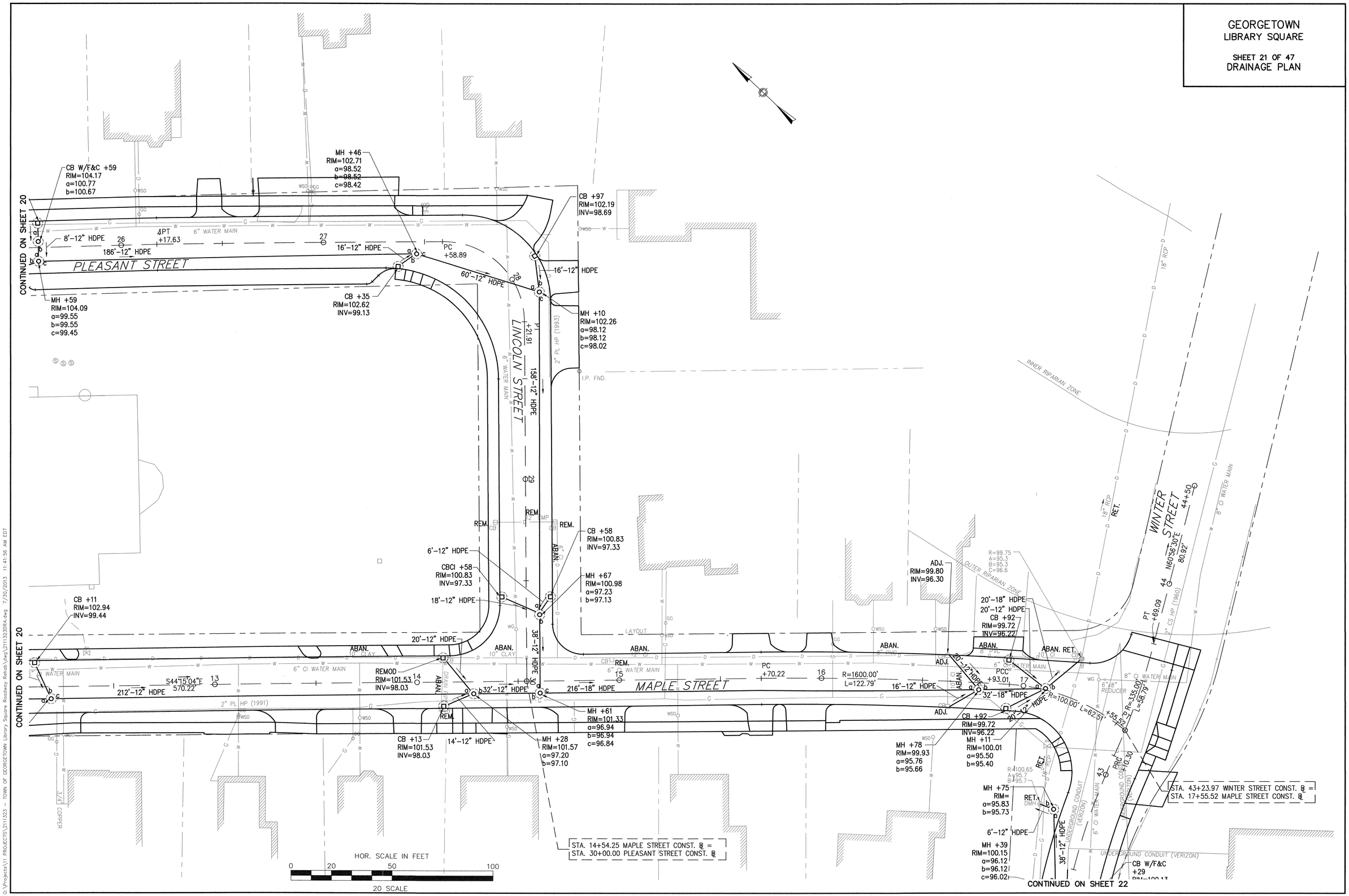
GEORGETOWN
LIBRARY SQUARE

SHEET 21 OF 47
DRAINAGE PLAN

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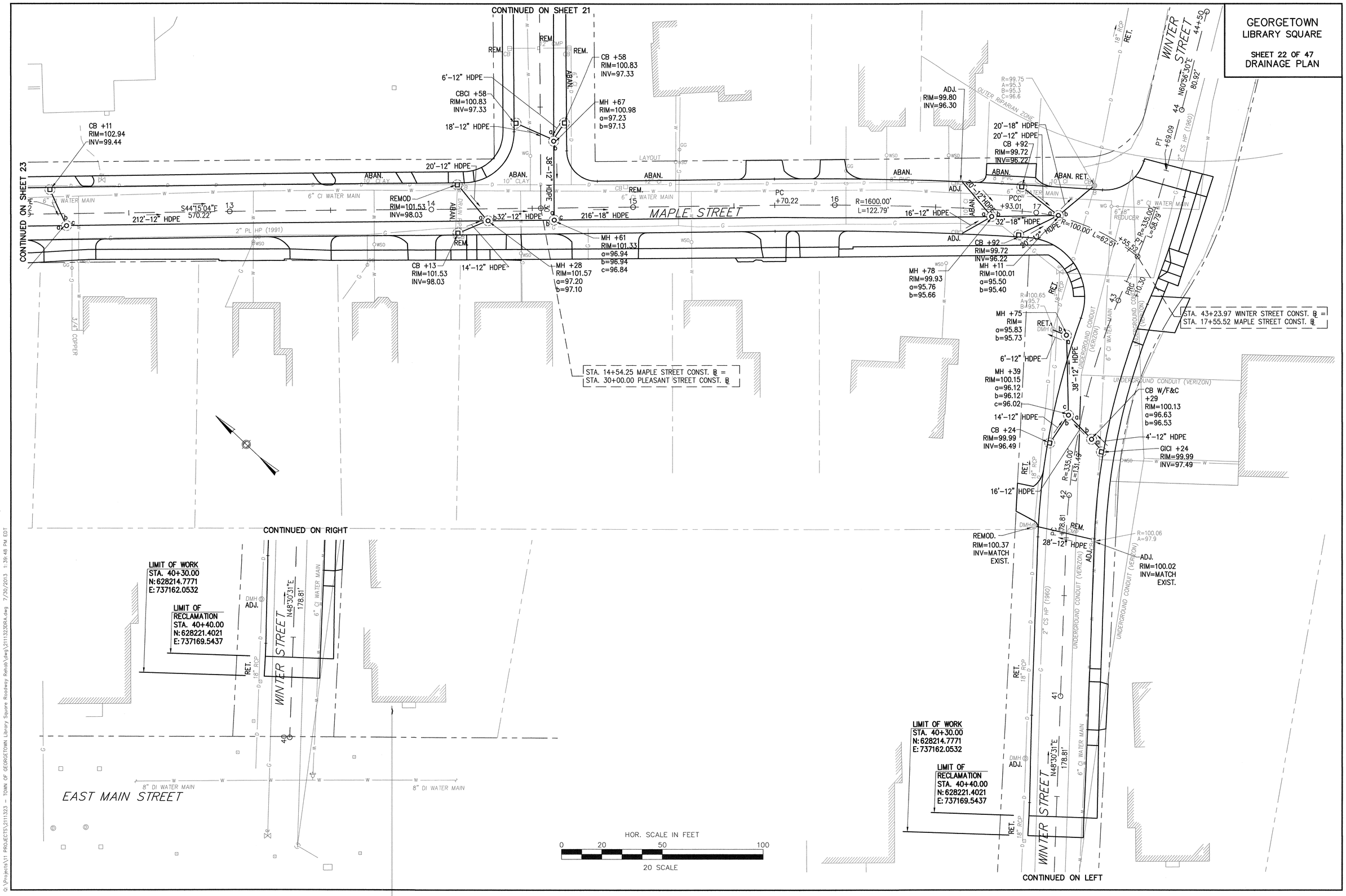
GEORGETOWN
LIBRARY SQUARE

SHEET 22 OF 47
DRAINAGE PLAN

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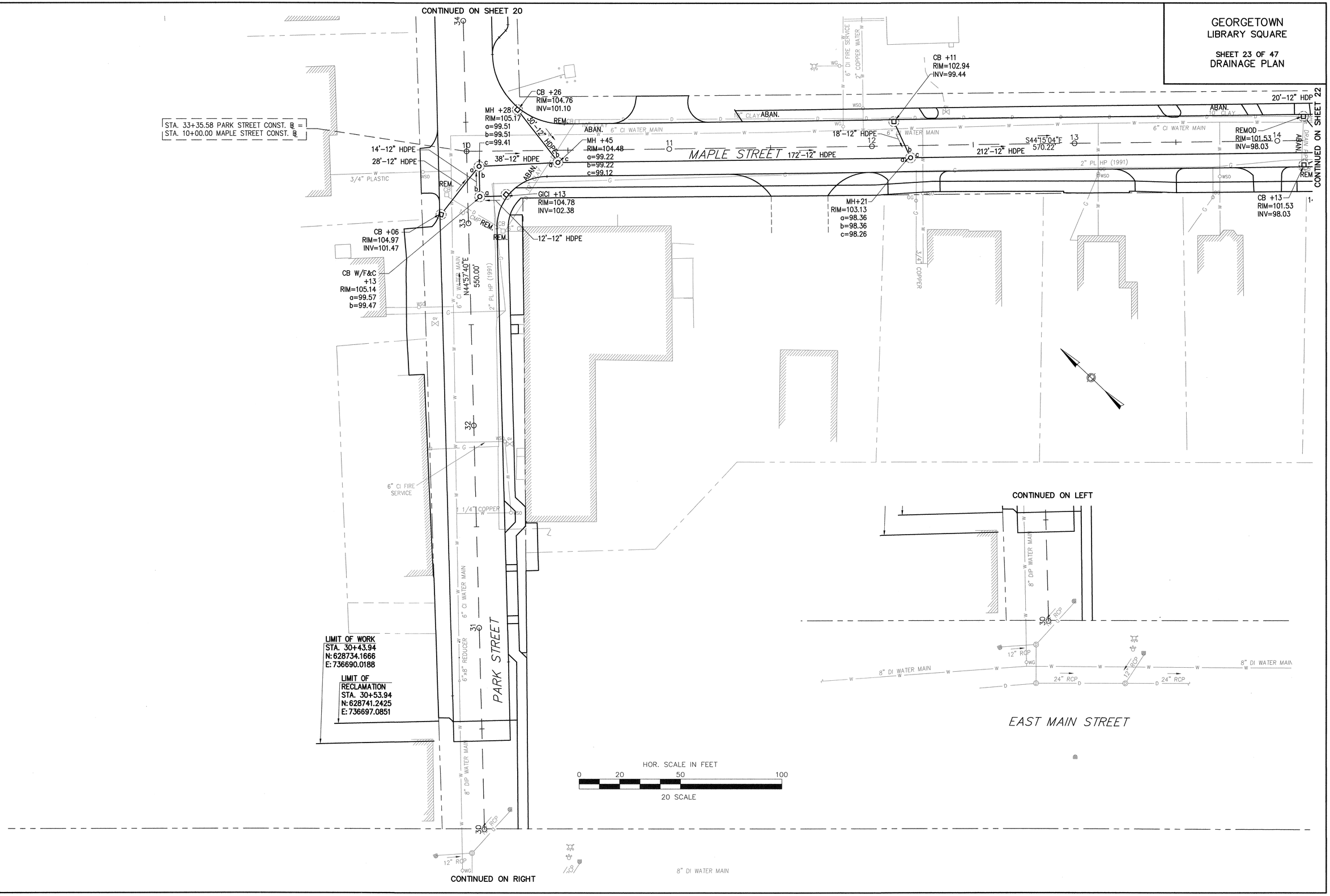
GEORGETOWN
LIBRARY SQUARE

SHEET 23 OF 47
DRAINAGE PLAN

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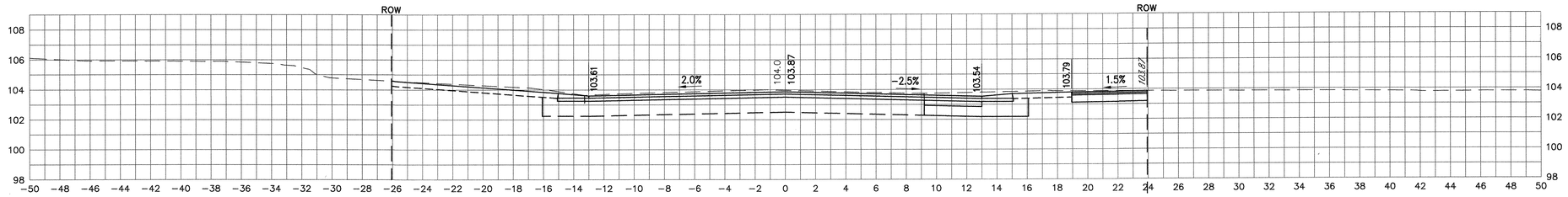
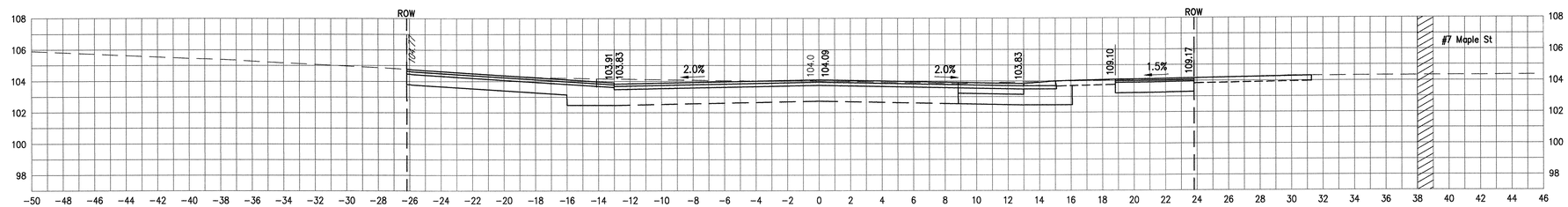
GEORGETOWN
LIBRARY SQUARE

SHEET 24 OF 47
CROSS SECTIONS
MAPLE STREET

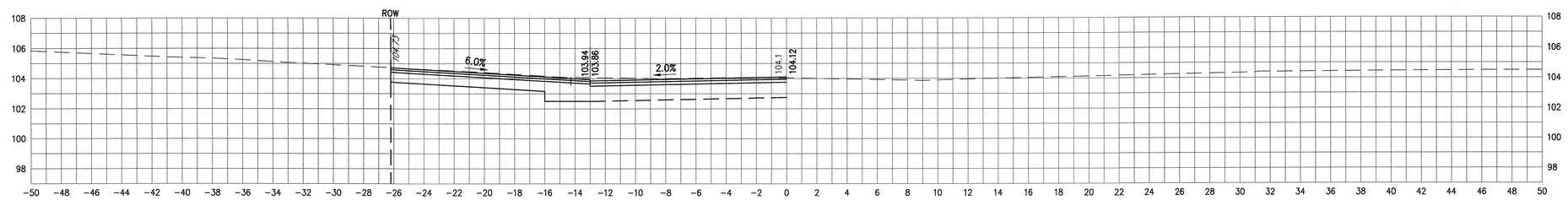



11+25

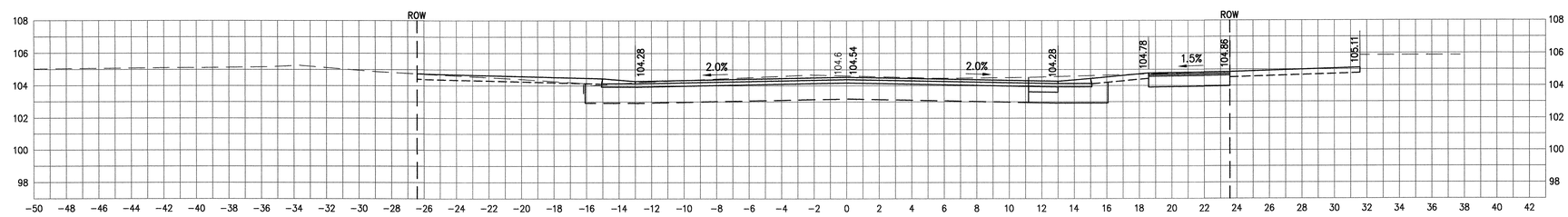
## 11+12.5 – BEGIN CROSS-SLOPE TRANSITION RIGHT (–2.0% TO –3.5%) – RATE: 1% PER 25'




11+00




10+97
PARKING ENTRANCE LEFT




10+50

0 4 10 20
HOR. SCALE IN FEET

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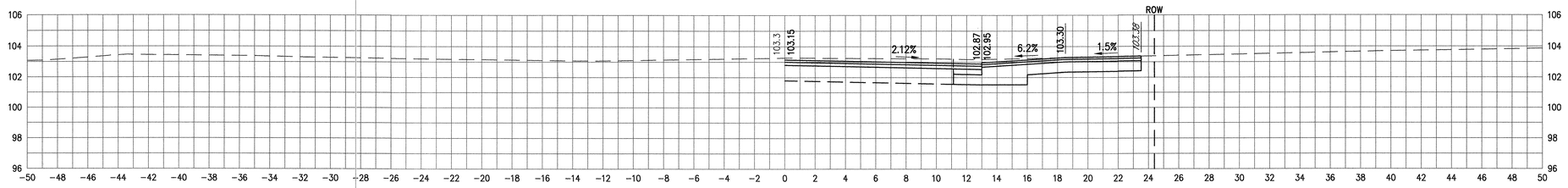
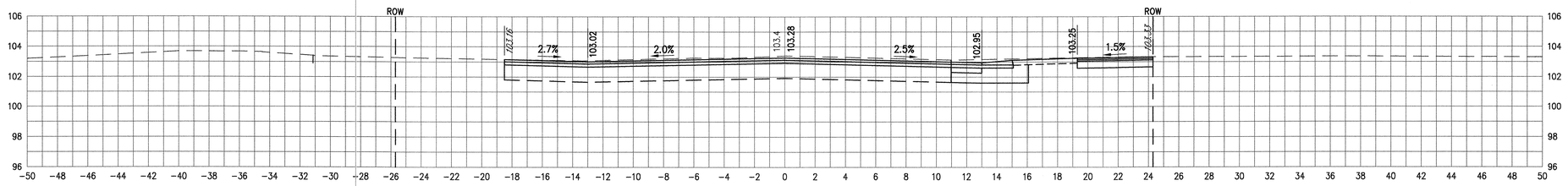
GEORGETOWN
LIBRARY SQUARE

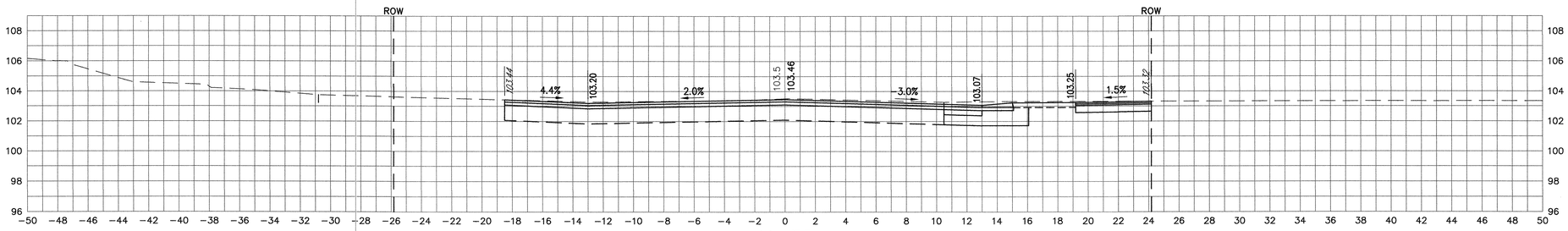
SHEET 25 OF 47
CROSS SECTIONS
MAPLE STREET



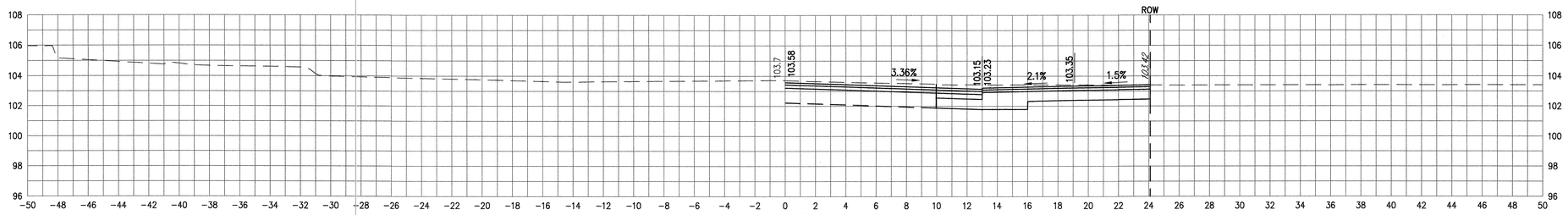

12+19
DRIVEWAY RIGHT



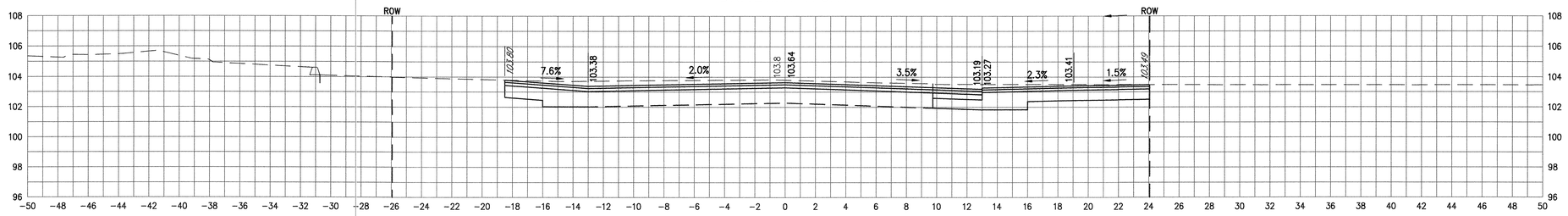

12+00




11+75




11+57
DRIVEWAY RIGHT




11+50

**11+50 – END CROSS-SLOPE TRANSITION RIGHT (–2.0% TO –3.5%) – RATE: 1% PER 25'**
**11+50 – BEGIN CROSS-SLOPE TRANSITION RIGHT (–3.5% TO –2.0%) – RATE: 1% PER 50'**

0 4 10 20
HOR. SCALE IN FEET

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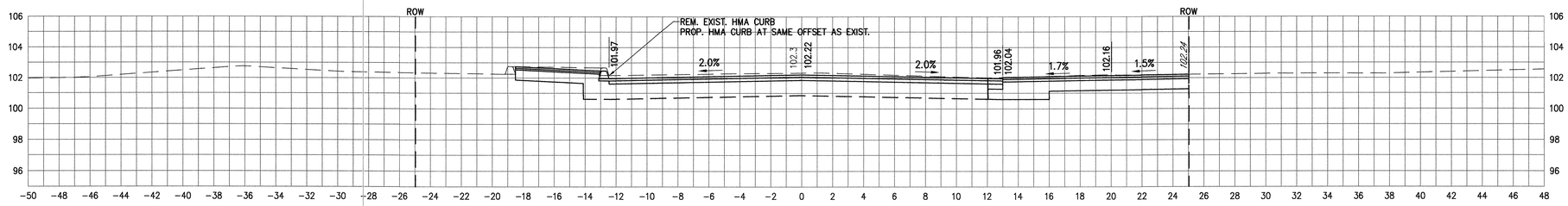
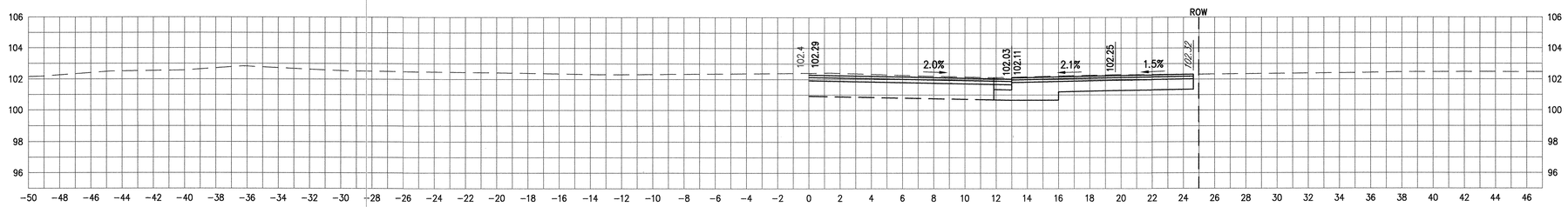
GEORGETOWN
LIBRARY SQUARE

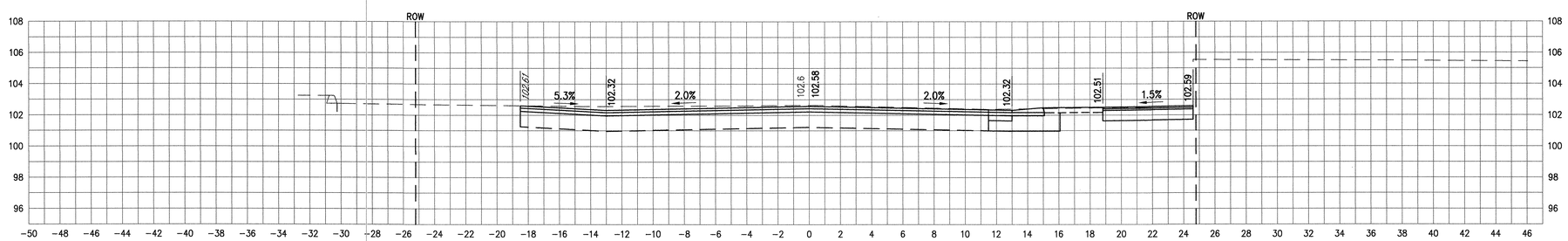
SHEET 26 OF 47
CROSS SECTIONS
MAPLE STREET



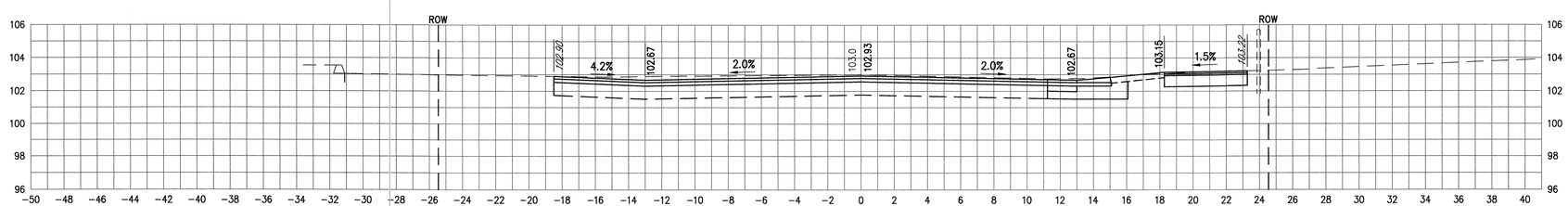

13+50




13+41
DRIVEWAY RIGHT




13+00




12+50

**12+25 – END CROSS-SLOPE TRANSITION RIGHT (–3.5% TO –2.0%) – RATE: 1% PER 25'**

0 4 10 20
HOR. SCALE IN FEET

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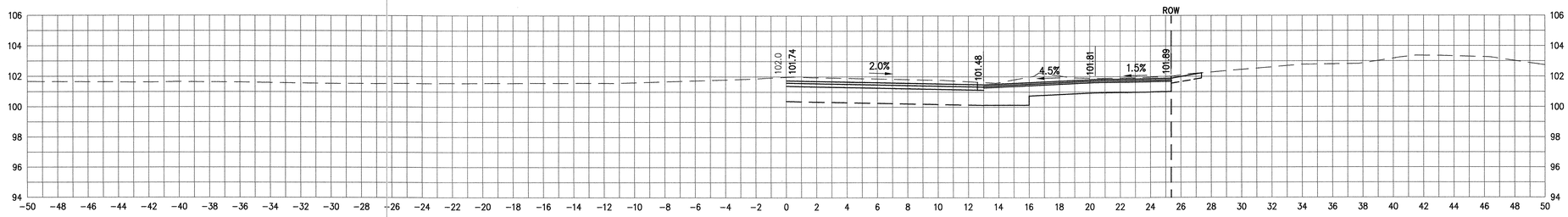
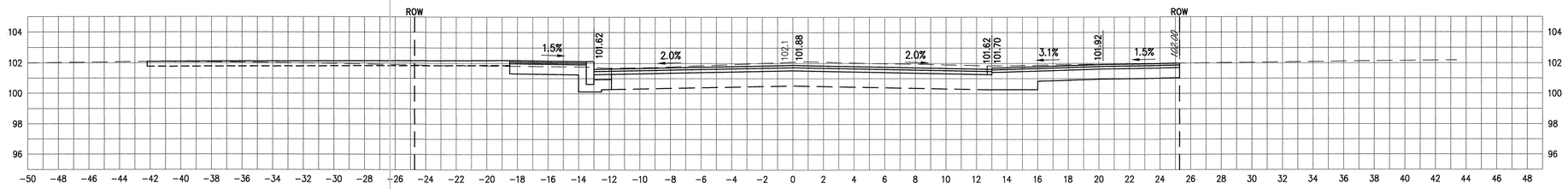
GEORGETOWN
LIBRARY SQUARE

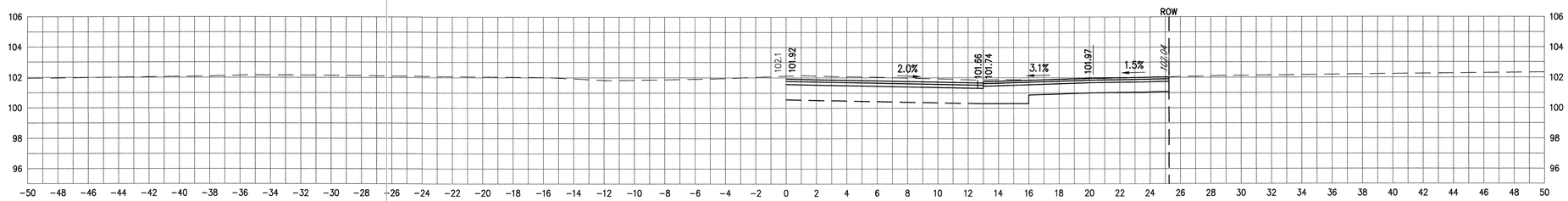
SHEET 27 OF 47
CROSS SECTIONS
MAPLE STREET



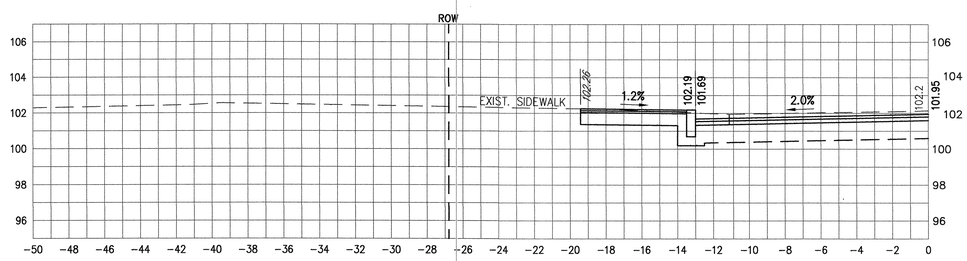

14+20
WHEEL CHAIR RAMP RIGHT



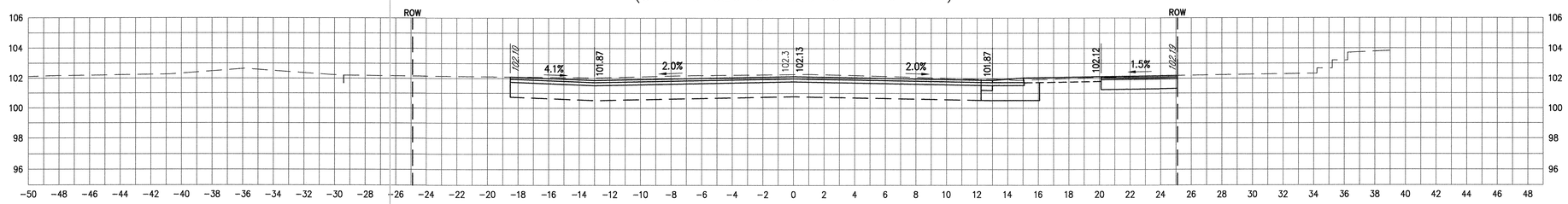

14+00




13+95
DRIVEWAY RIGHT




13+89.71 – SIDEWALK LEFT
SECTION RUNS PERPENDICULAR FROM BASELINE, THEN SKEWED FROM EOP DOWN CENTER OF SIDEWALK
(SKEWED SECTION BEGINS AT 13' LEFT)




13+65
WALKWAY / STAIRS RIGHT

0 4 10 20
HOR. SCALE IN FEET

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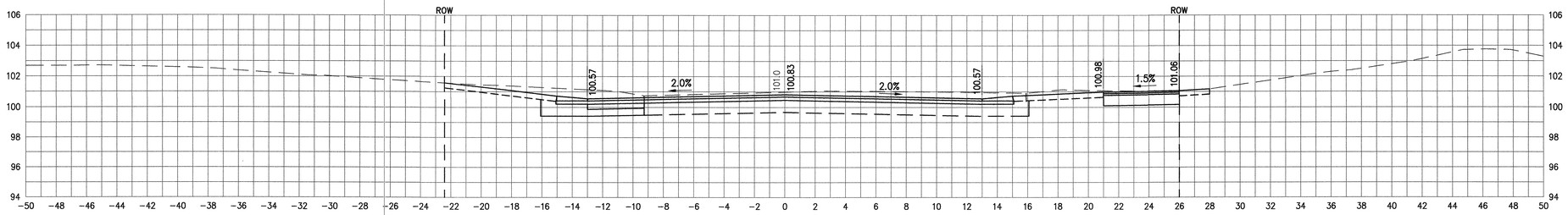
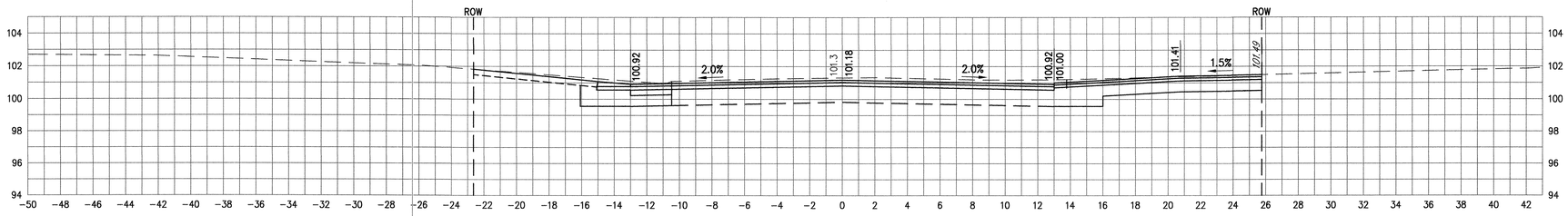
GEORGETOWN
LIBRARY SQUARE

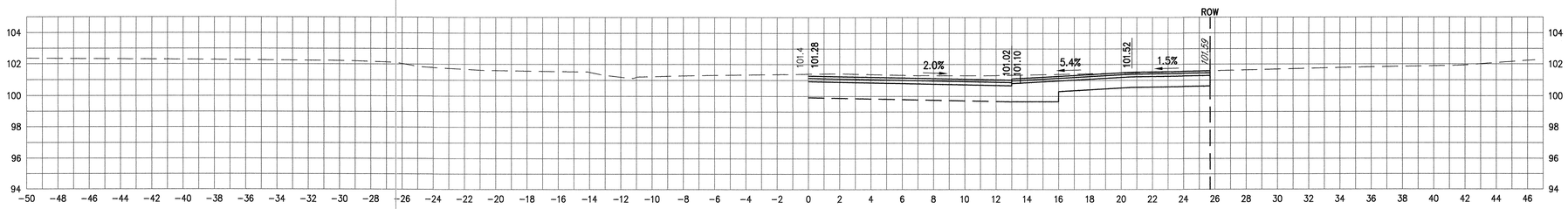
SHEET 28 OF 47
CROSS SECTIONS
MAPLE STREET



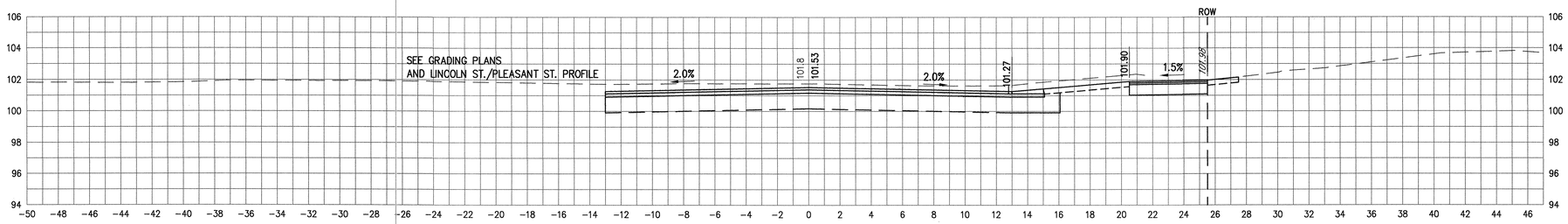

15+50



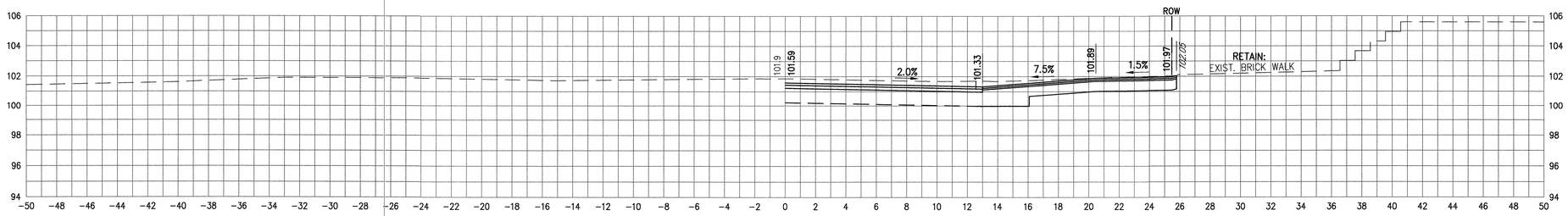

15+00




14+86
DRIVEWAY RIGHT




14+50




14+41
WALKWAY / STAIRS RIGHT

0 4 10 20
HOR. SCALE IN FEET

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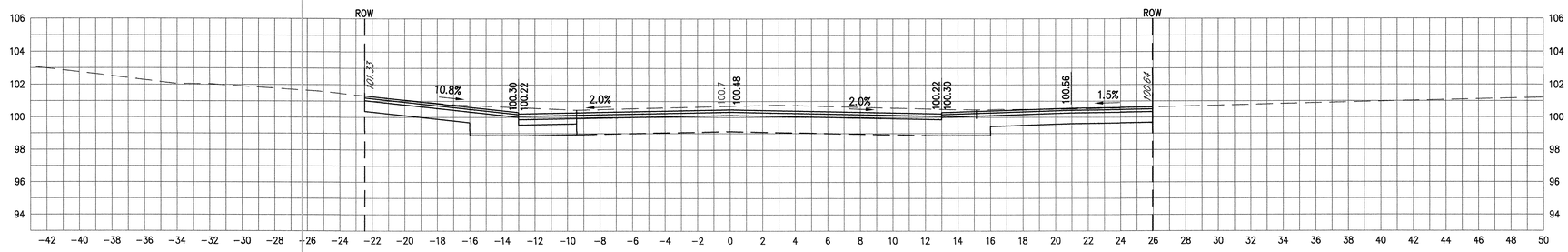
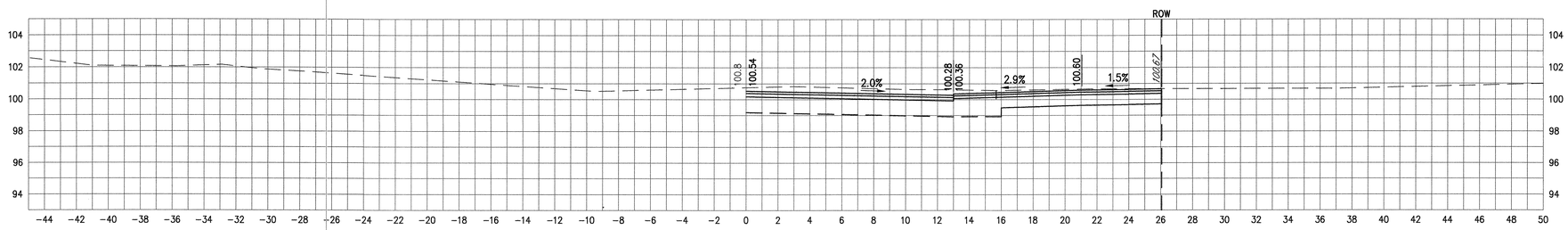
GEORGETOWN
LIBRARY SQUARE

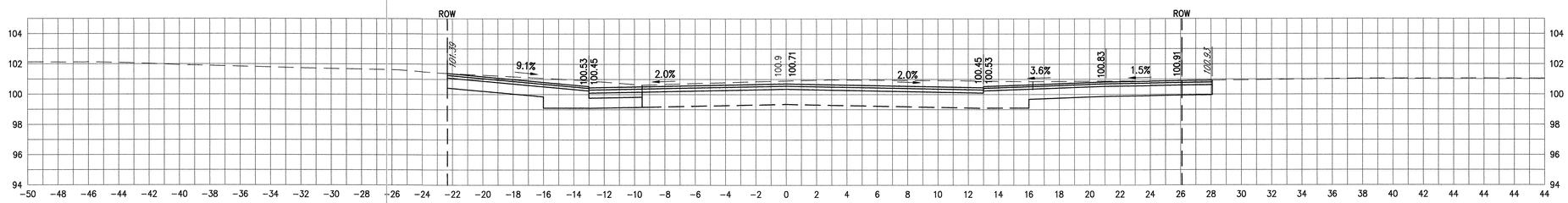
SHEET 29 OF 47
CROSS SECTIONS
MAPLE STREET



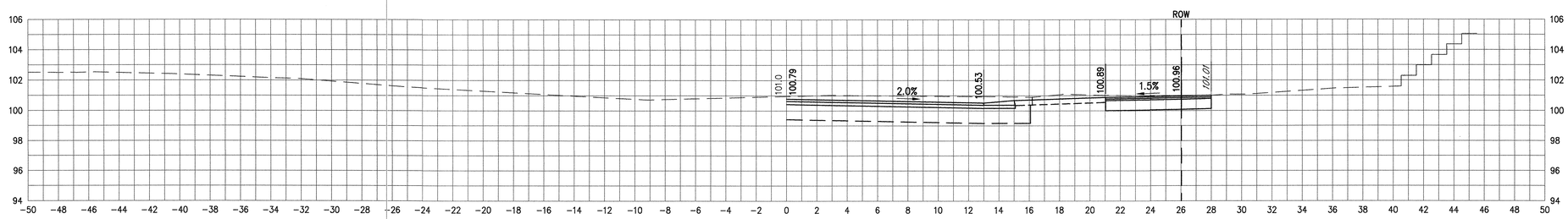

16+00
DRIVEWAY LEFT




15+92
DRIVEWAY RIGHT




15+68
DRIVEWAY LEFT / RIGHT




15+56
WALKWAY / STAIRS RIGHT

0 4 10 20
HOR. SCALE IN FEET

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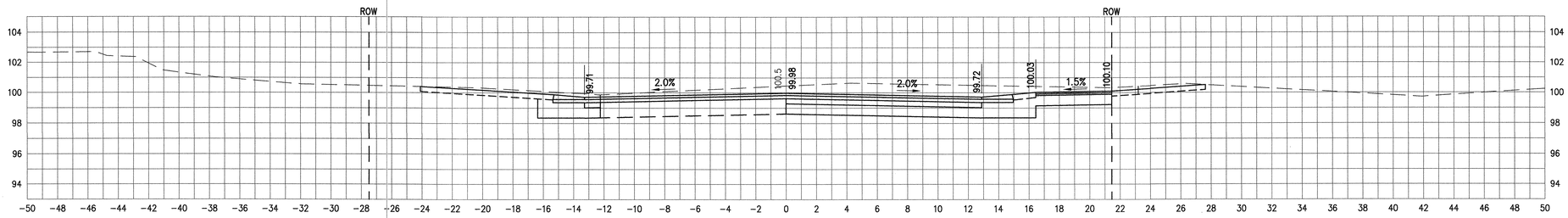
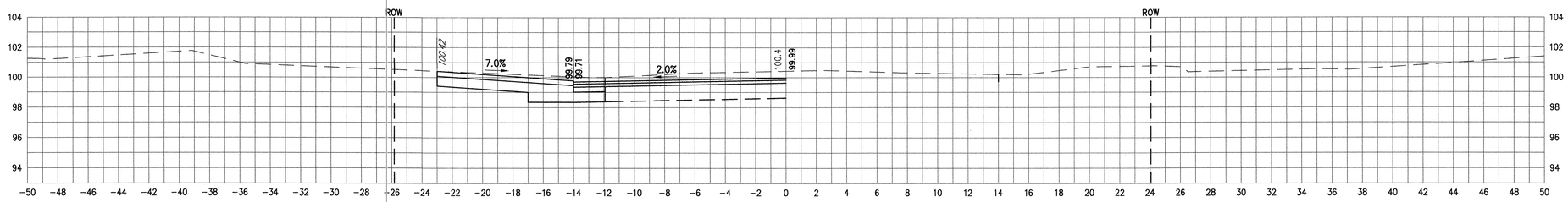
LIBRARY SQUARE

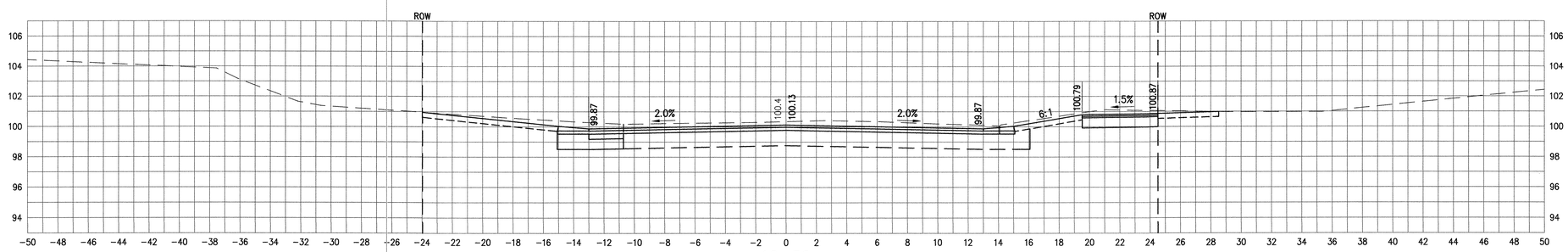
SHEET 30 OF 47
CROSS SECTIONS
MAPLE STREET



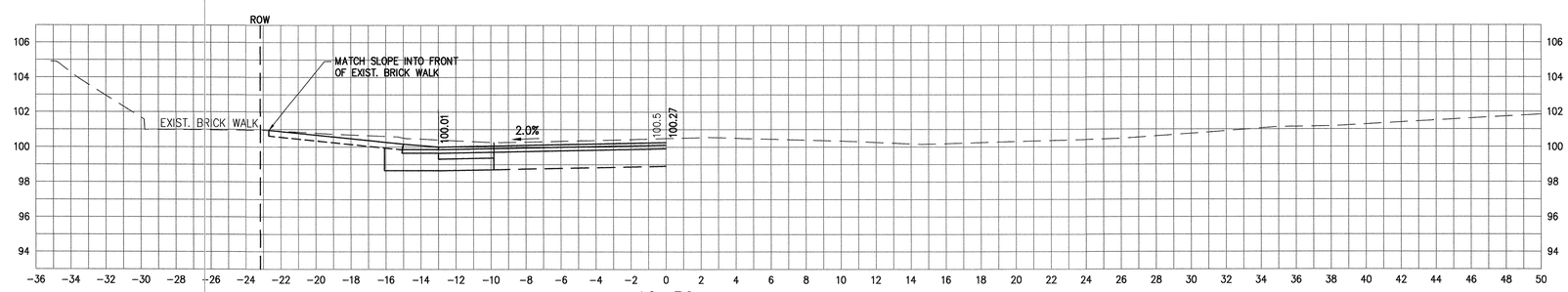

17+00




16+83
DRIVEWAY LEFT




16+50




16+30
BRICK WALK / STAIRS LEFT

0 4 10 20
HOR. SCALE IN FEET

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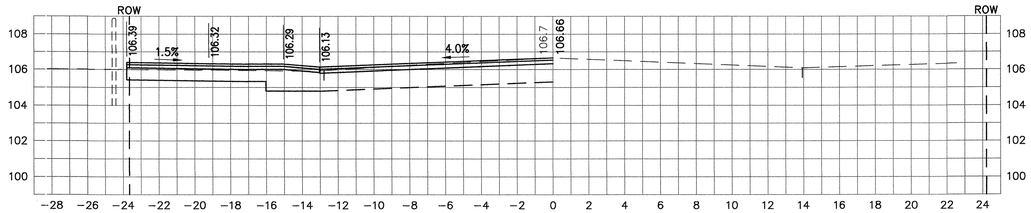
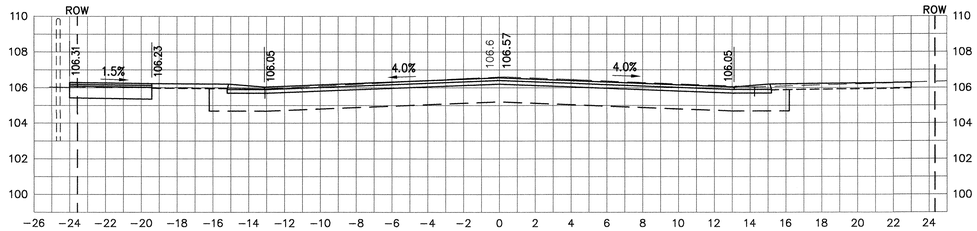
GEORGETOWN
LIBRARY SQUARE

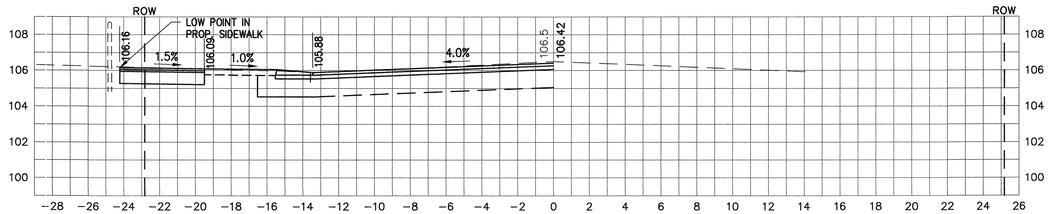
SHEET 31 OF 47
CROSS SECTIONS
PLEASANT STREET



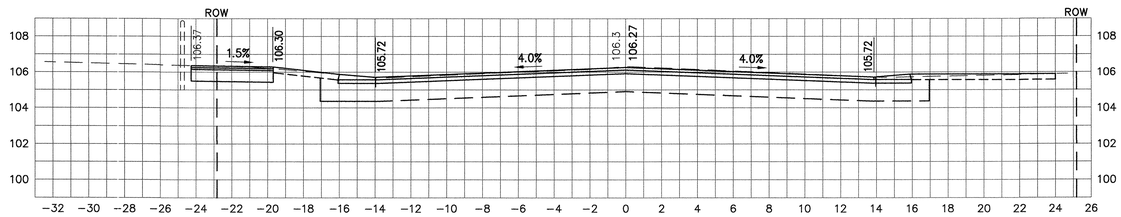

21+64
DRIVEWAY LT



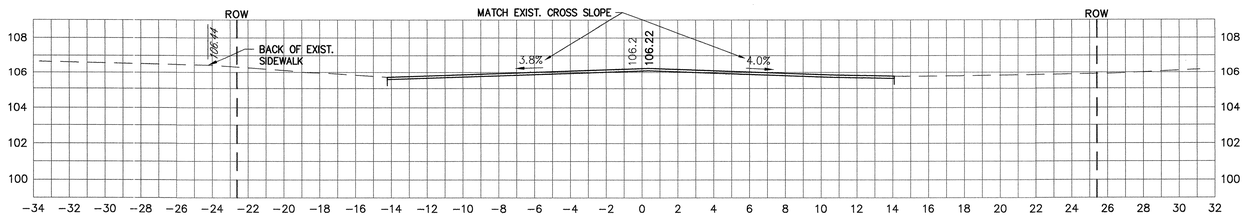

21+50



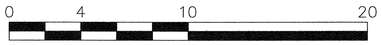

21+25
PROP. LOW POINT IN SIDEWALK




21+00




20+91.16
LIMIT OF SIDEWALK LT




HOR. SCALE IN FEET

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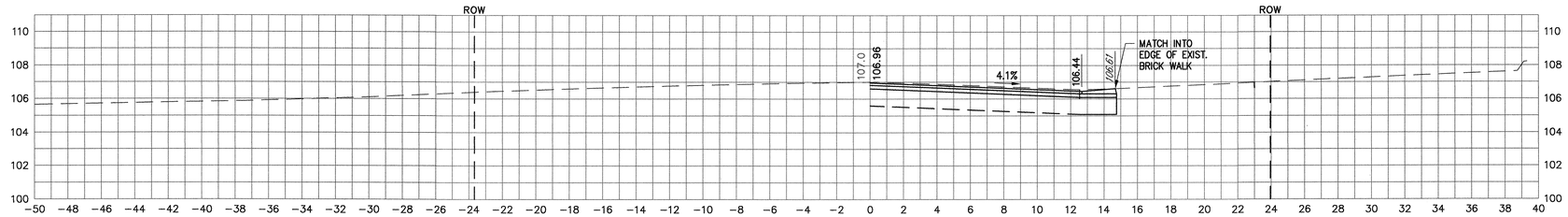
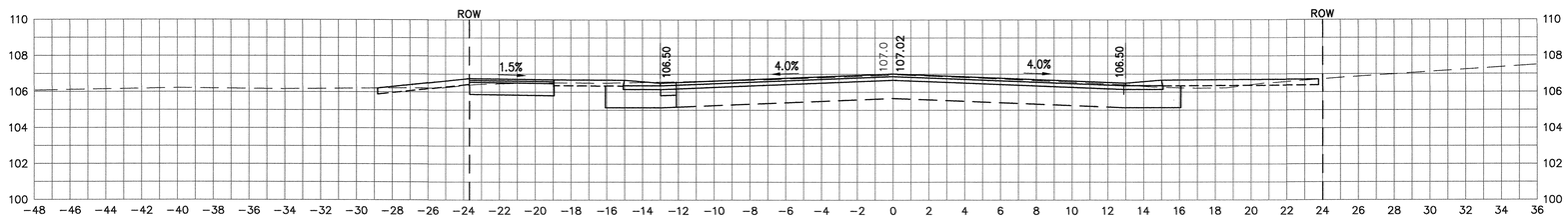
GEORGETOWN
LIBRARY SQUARE

SHEET 32 OF 47
CROSS SECTIONS
PLEASANT STREET

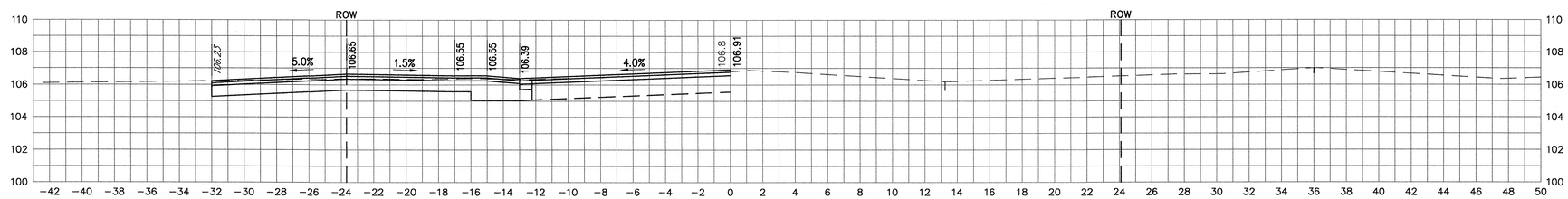



22+79
BRICK WALK RT

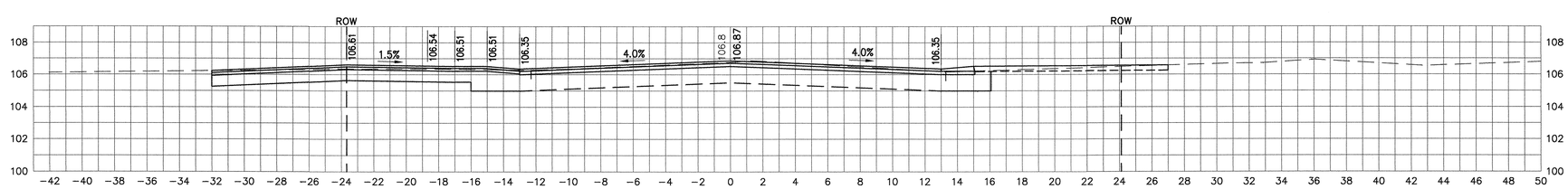



22+50

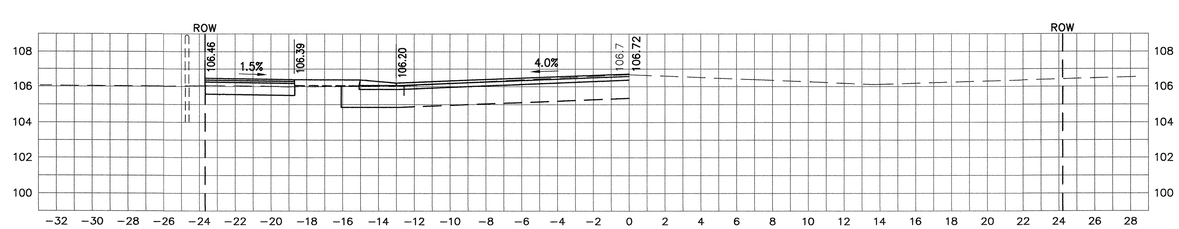
## 22+50 – BEGIN CROSS-SLOPE TRANSITION LT (–4% TO –2%)




22+07
DRIVEWAY LT




22+00




21+75

0 4 10 20
HOR. SCALE IN FEET

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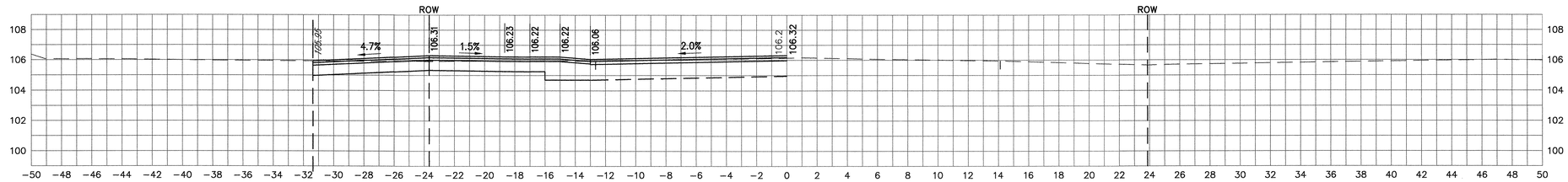
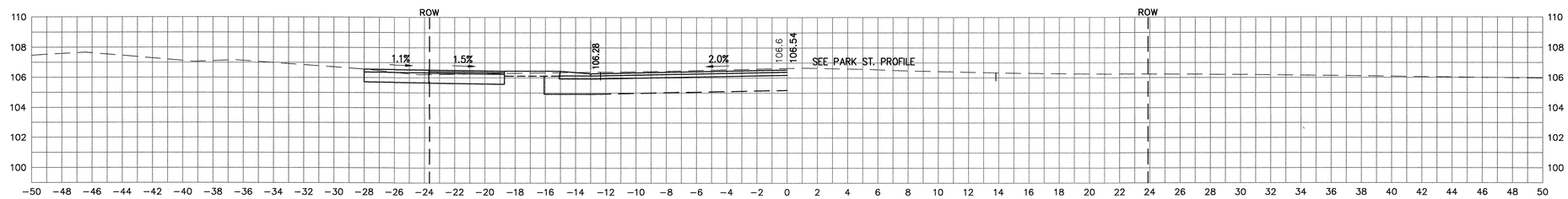
GEORGETOWN
LIBRARY SQUARE

SHEET 33 OF 47
CROSS SECTIONS
PLEASANT STREET



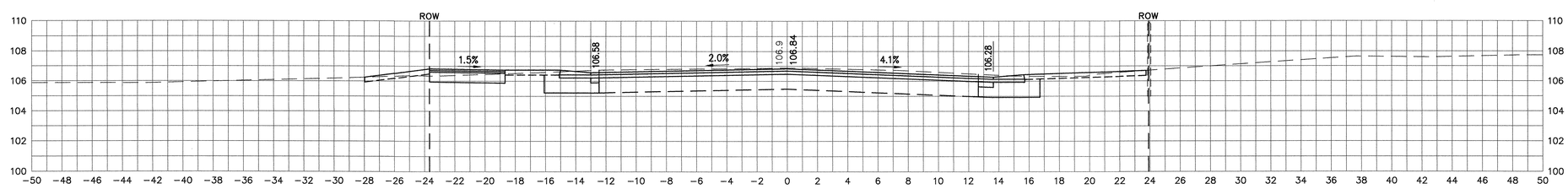

23+87
DRIVEWAY LT

## 23+75 – END CROSS SLOPE TRANSITION RT (–0.6% TO –2.0%)




23+50
BRICK WALK LT

## 23+40.58
## INTERSECTION OF PARK ST. BASELINE
## END CROSS SLOPE TRANSITION RT (–4.1% TO –0.6%)
## INSTANTANEOUS CROSS SLOPE RT AT 23+40.58 = –0.6%
## BEGIN CROSS SLOPE TRANSITION RT (–0.6% TO –2.0%)




23+00

## END CROSS–SLOPE TRANSITION LT (–4% TO –2%)
## BEGIN CROSS SLOPE TRANSITION RT (–4.1% TO –0.6%)
## (TO MATCH INTO PARK ST. PROFILE)

0 4 10 20
HOR. SCALE IN FEET

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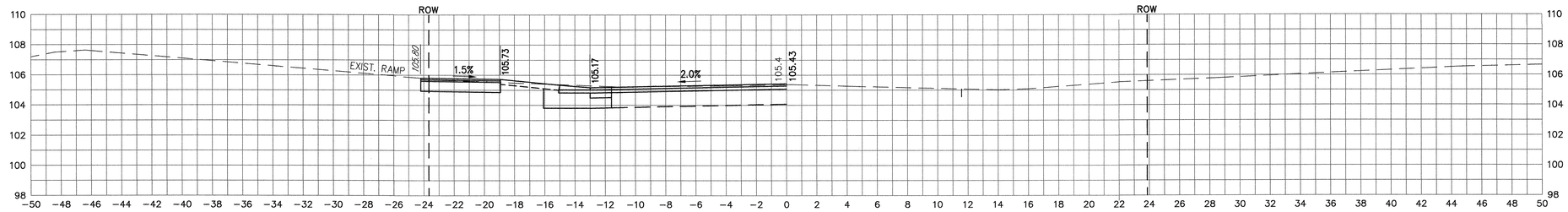
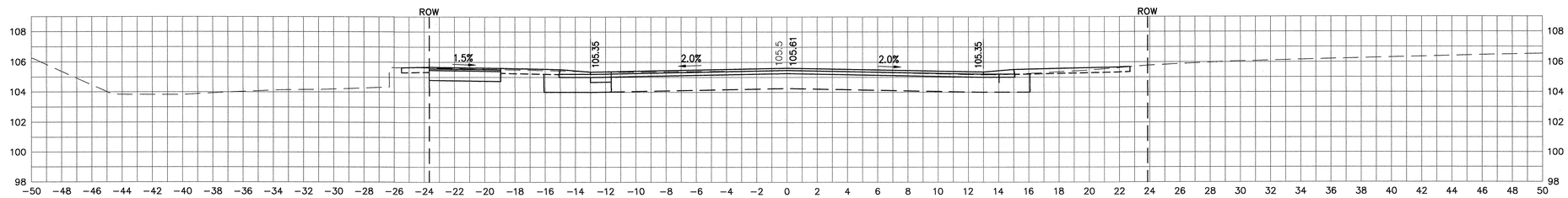
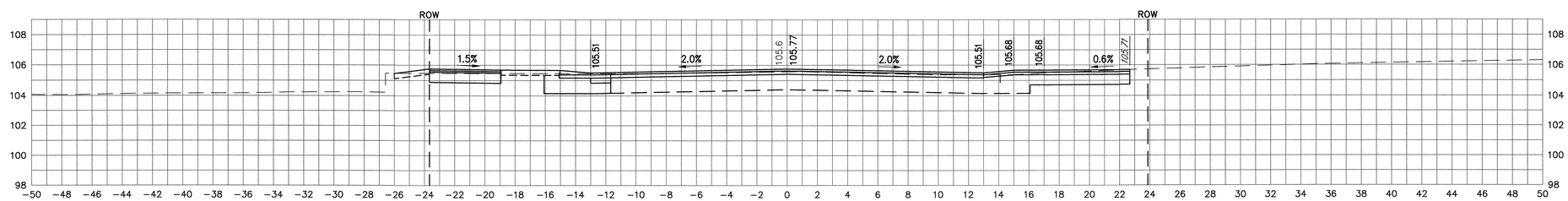
SHEET 34 OF 47
CROSS SECTIONS
PLEASANT STREET



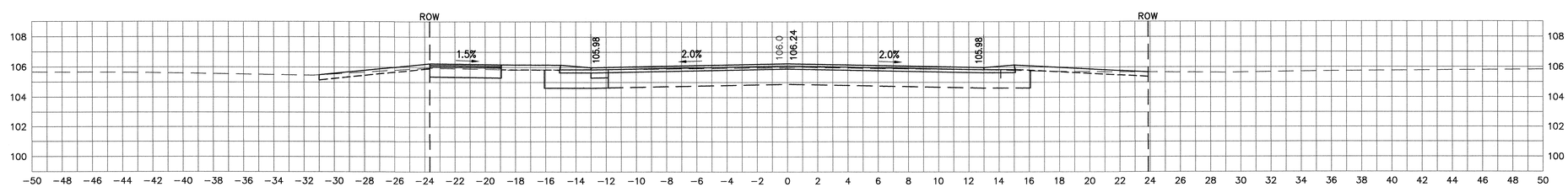

24+64
MATCH INTO EXIST. WHEELCHAIR RAMP LT




24+50
TIMBER WALL LT




24+37
DRIVEWAY RT
TEIMBER WALL LT




24+00

0 4 10 20
HOR. SCALE IN FEET

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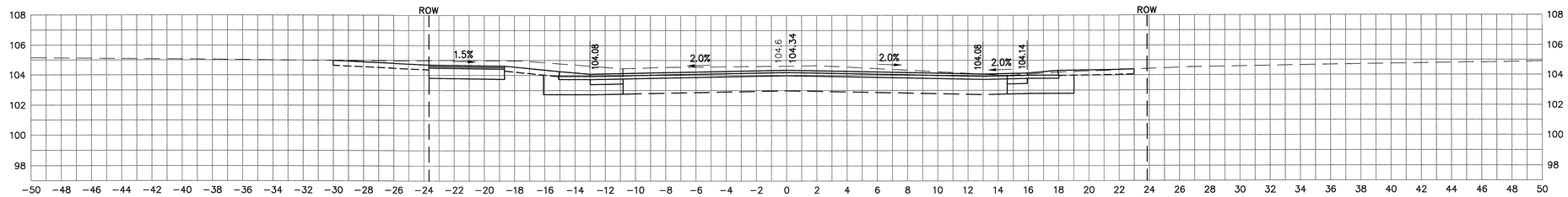
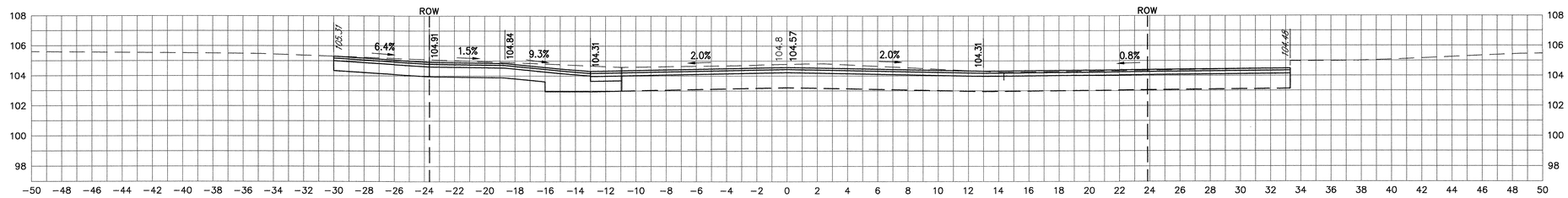
GEORGETOWN
LIBRARY SQUARE

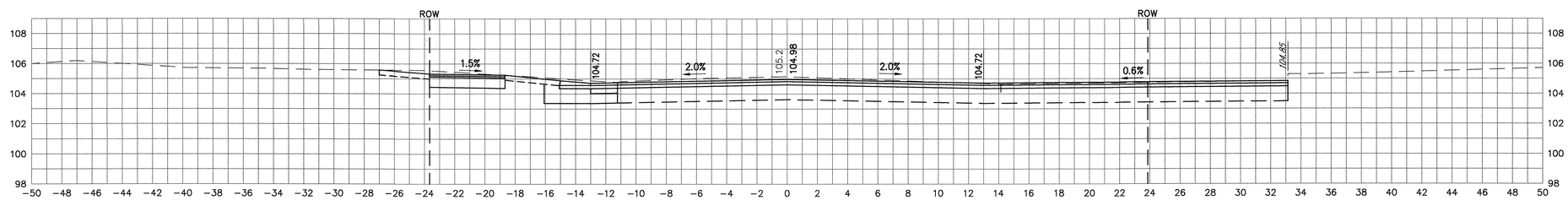
SHEET 35 OF 47
CROSS SECTIONS
PLEASANT STREET



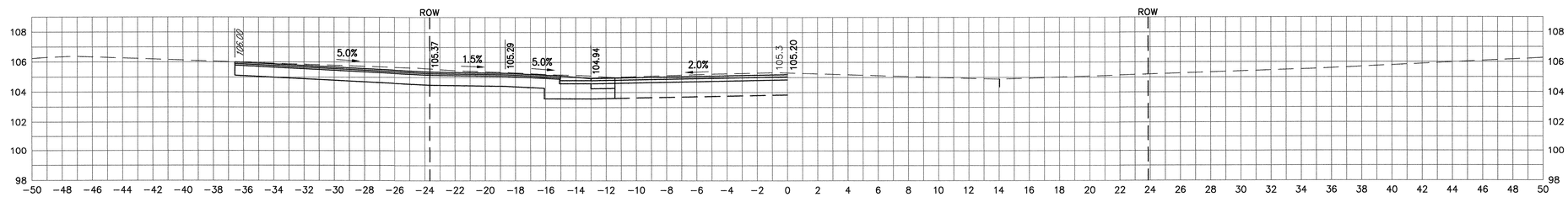

25+50




25+32
HMA DRIVEWAY LT / HMA PARKING AREA RT




25+00
HMA PARKING AREA RT




24+82
HMA WALK LT

0 4 10 20
HOR. SCALE IN FEET

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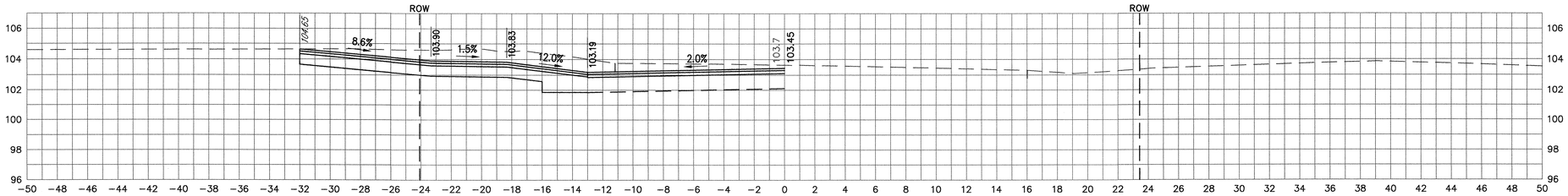
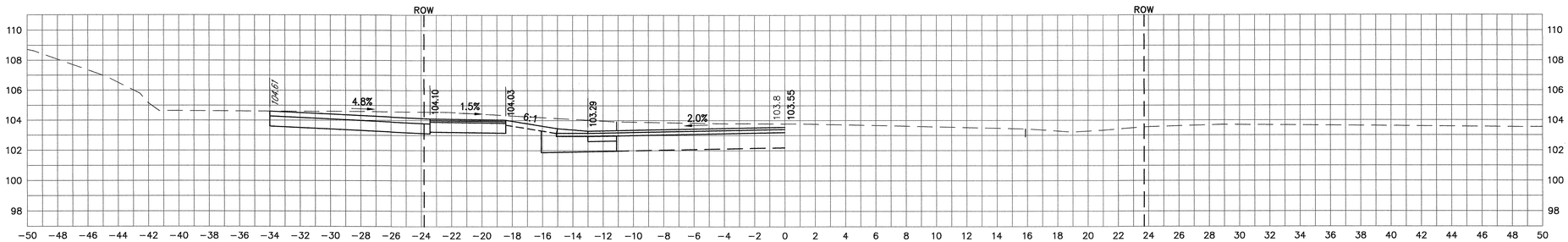
GEORGETOWN
LIBRARY SQUARE

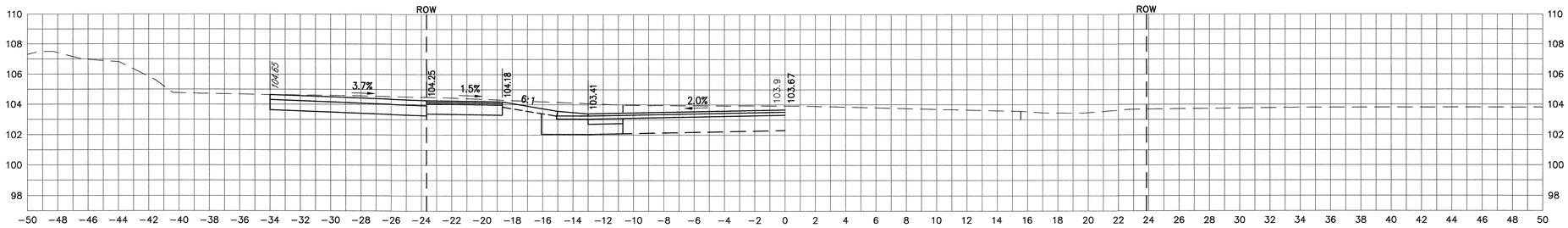
SHEET 36 OF 47
CROSS SECTIONS
PLEASANT STREET



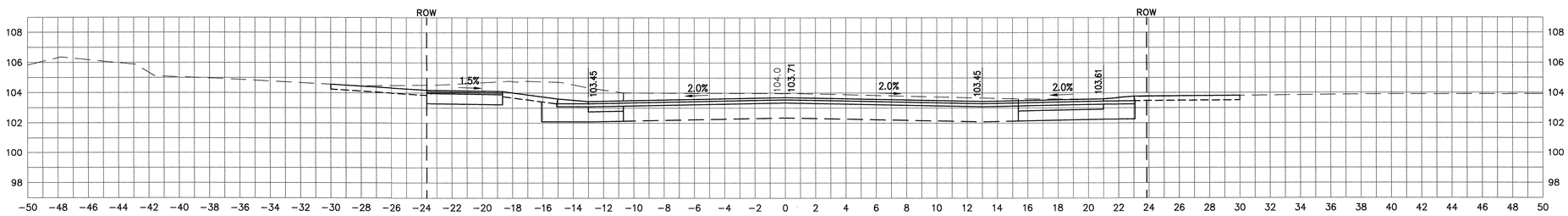

26+44
HMA DRIVEWAY LT




26+27
CEM. CONC. WALK LT




26+07
CEM. CONC. WALK LT




26+00

0 4 10 20
HOR. SCALE IN FEET

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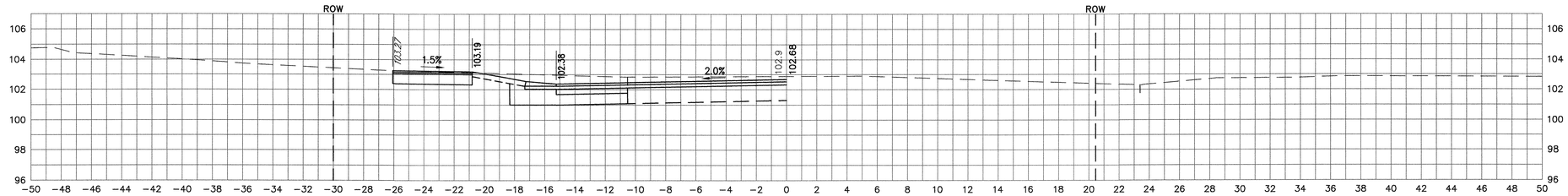
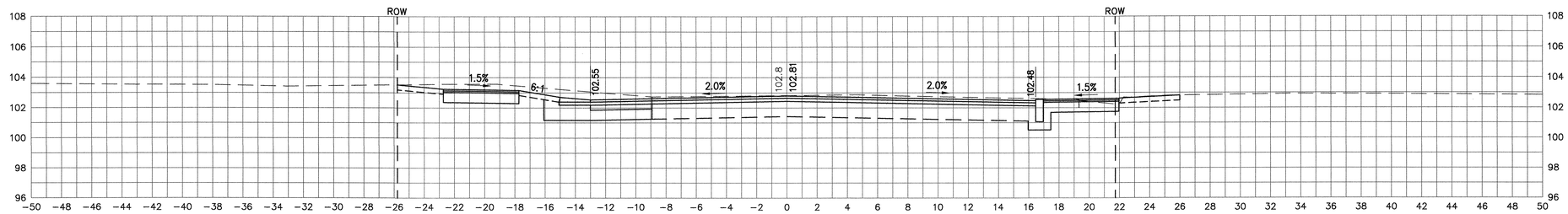
GEORGETOWN
LIBRARY SQUARE

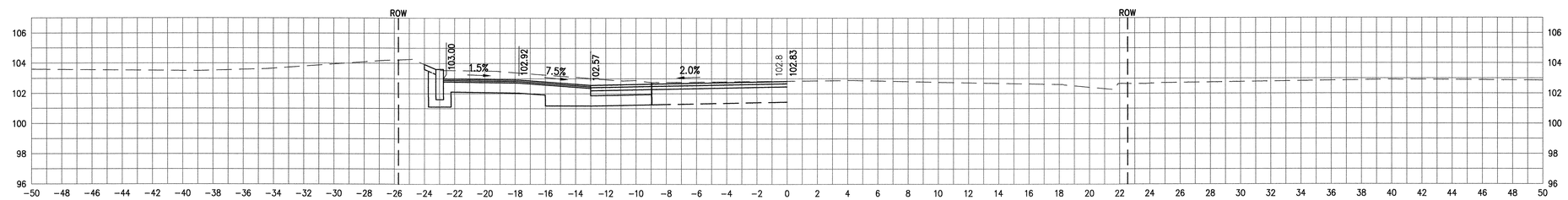
SHEET 37 OF 47
CROSS SECTIONS
PLEASANT STREET



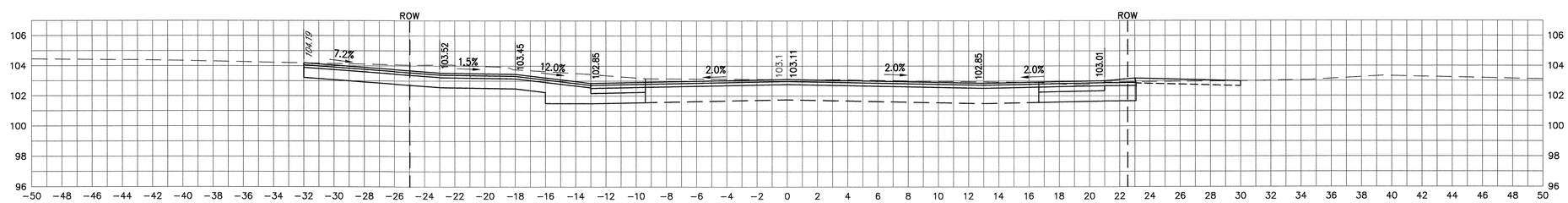

27+72
MATCH EXIST. CONC. WALK LT



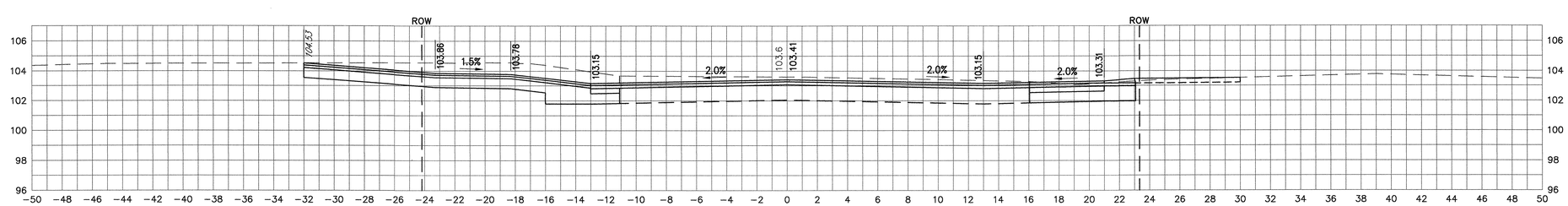

27+50




27+47
WHEEL CHAIR RAMP LT




27+00
HOT MIX ASPHALT DRIVEWAY LT




26+50

0 4 10 20
HOR. SCALE IN FEET

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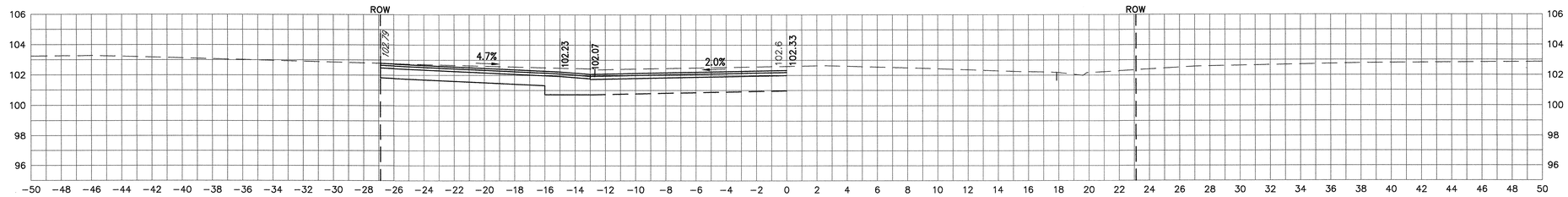
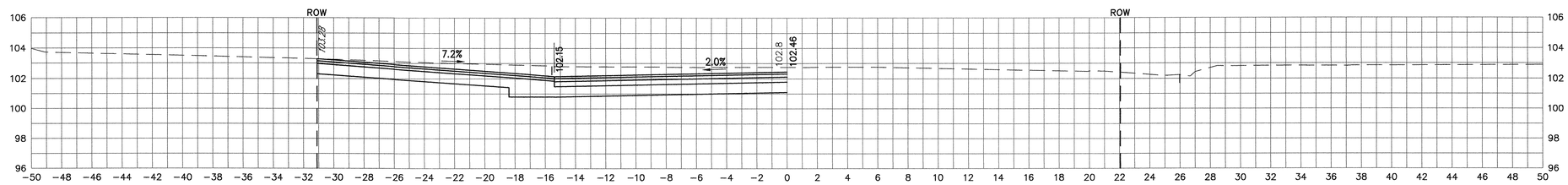
LIBRARY SQUARE

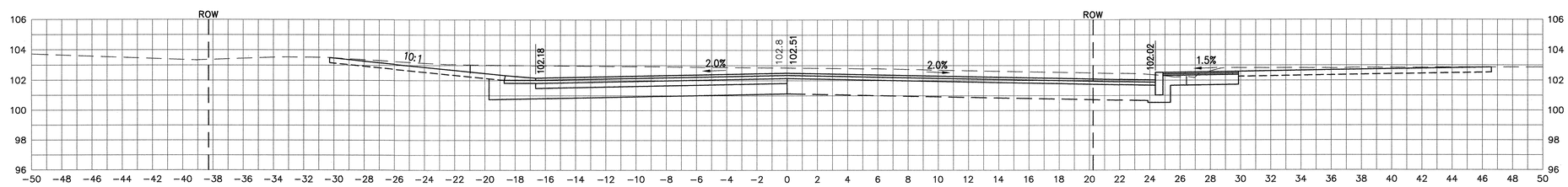
SHEET 38 OF 47
CROSS SECTIONS
PLEASANT STREET



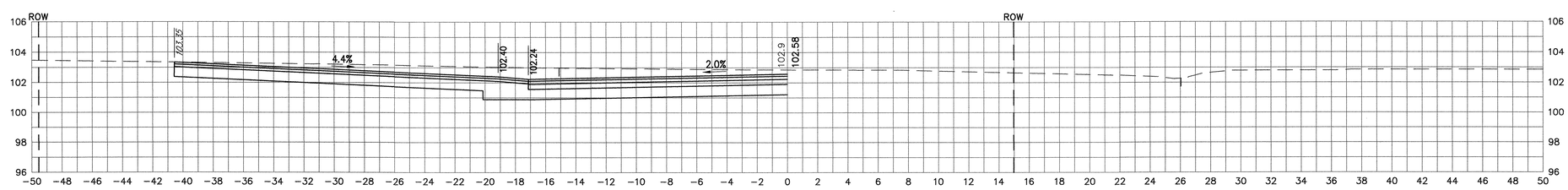

28+30
HMA DRIVEWAY LT




28+08
HMA DRIVEWAY LT




28+00




27+88
HMA DRIVEWAY LT

0 4 10 20
HOR. SCALE IN FEET

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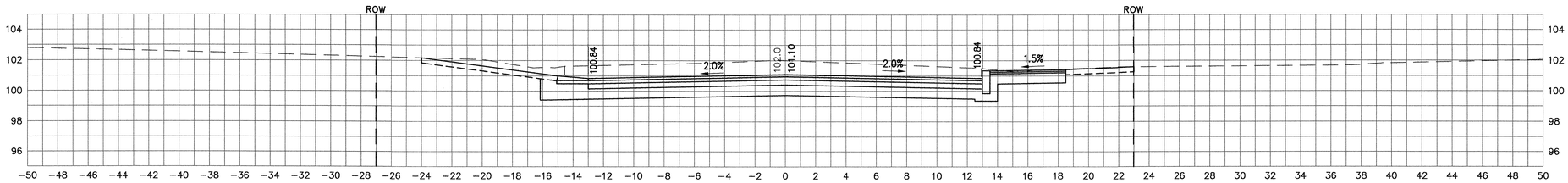
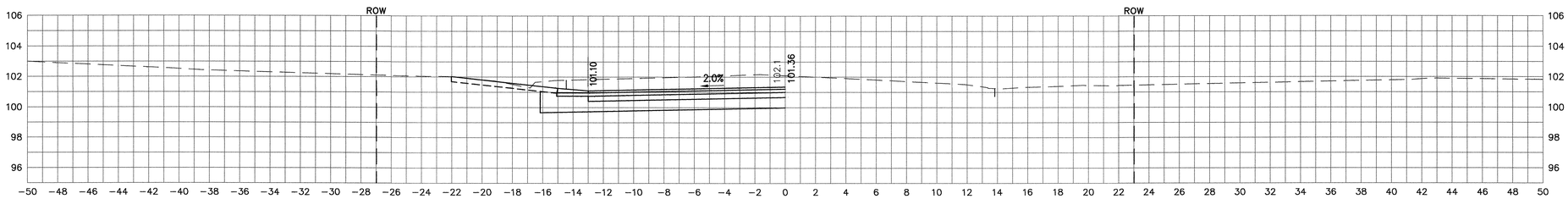
GEORGETOWN
LIBRARY SQUARE

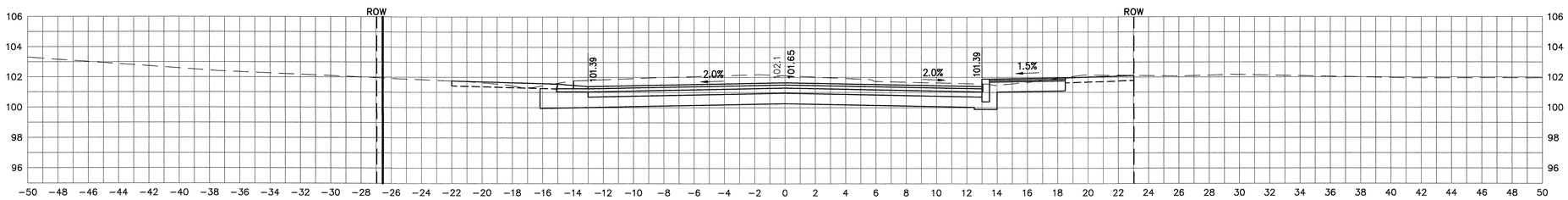
SHEET 39 OF 47
CROSS SECTIONS
PLEASANT STREET



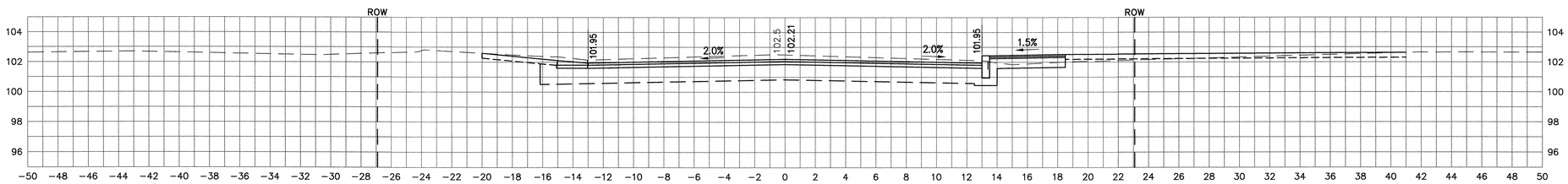

29+50




29+19




29+00




28+50

0 4 10 20

HOR. SCALE IN FEET

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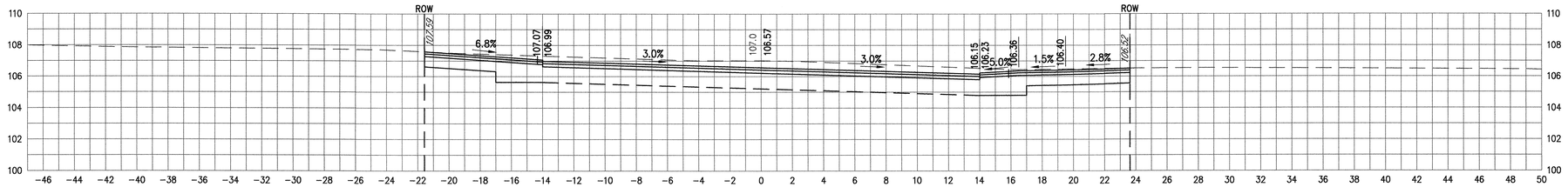
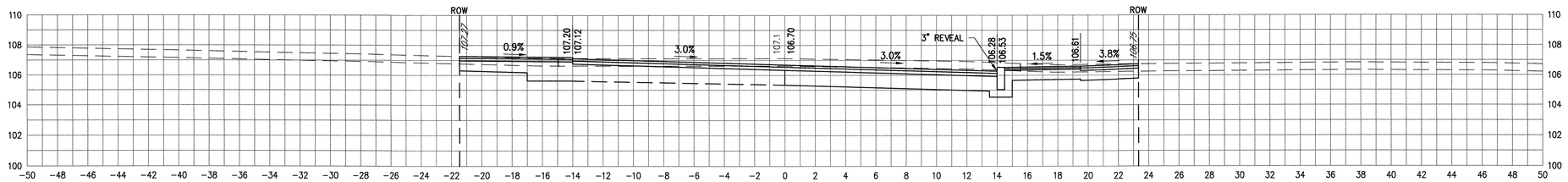
GEORGETOWN
LIBRARY SQUARE

SHEET 40 OF 47
CROSS SECTIONS
PARK STREET

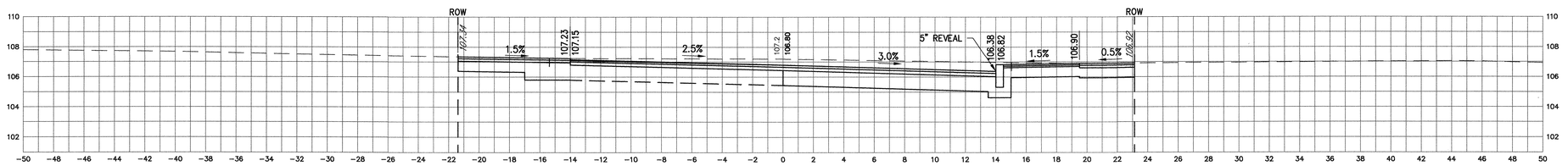



31+17



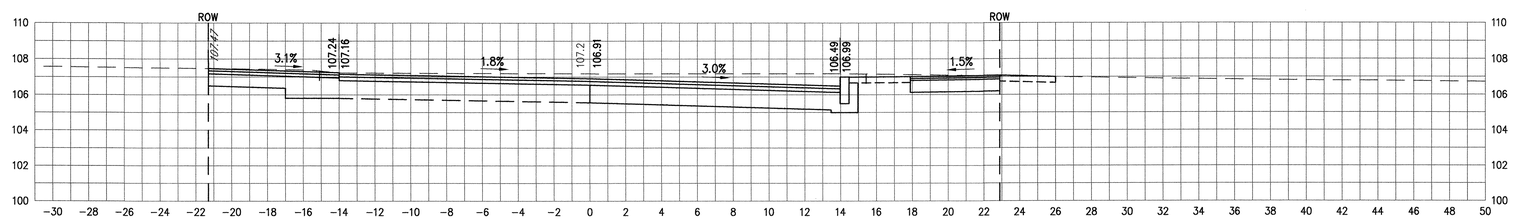

31+00

**31+00 – END CROSS-SLOPE TRANSITION LEFT (+0.9% TO +3.0%)**



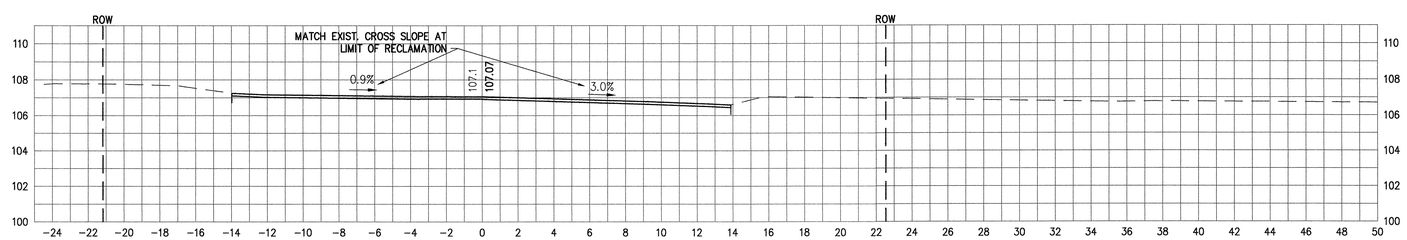

30+88

PARKING LOT LEFT / EDGE OF PARKING LOT RIGHT




30+74

PARKING LOT LEFT




30+53.94

LIMIT OF RECLAMATION

**30+53.94 – BEGIN CROSS-SLOPE TRANSITION LEFT (+0.9% TO +3.0%)**

**30+53.94 – BEGIN CROSS-SLOPE TRANSITION RIGHT (–3.0% TO –2.0%)**

0 4 10 20

HOR. SCALE IN FEET

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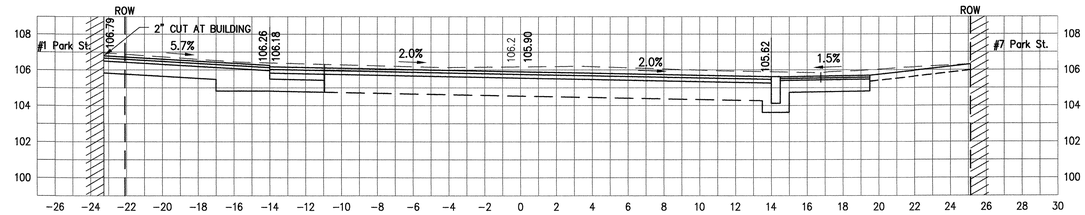
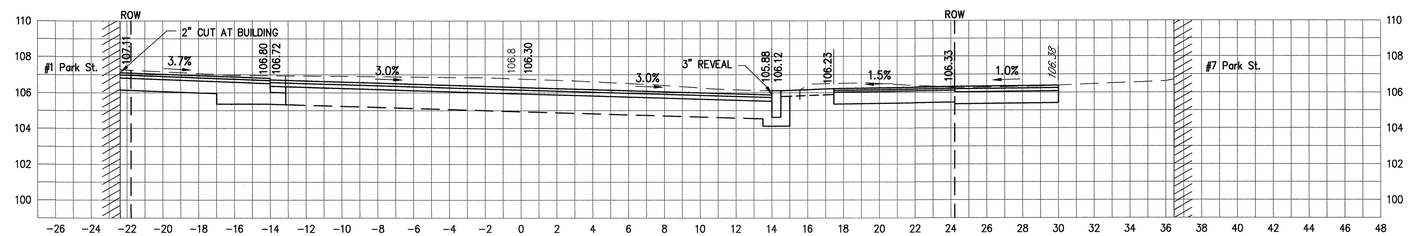
GEORGETOWN
LIBRARY SQUARE

SHEET 41 OF 47
CROSS SECTIONS
PARK STREET



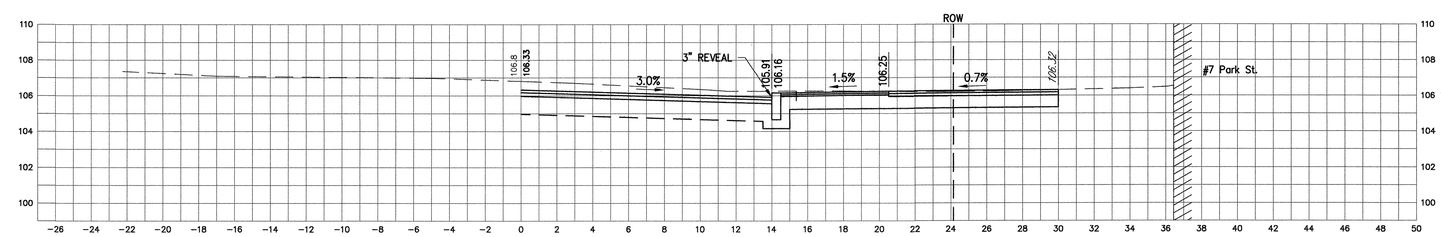

32+00

**31+75 – END CROSS-SLOPE TRANSITION RIGHT (–3.0% TO –2.0%). TRANSITION RATE: 1% PER 25'**
**31+75 – BEGIN CROSS-SLOPE TRANSITION LEFT (+3.0% TO –2.0%). TRANSITION RATE: 1% PER 25'**

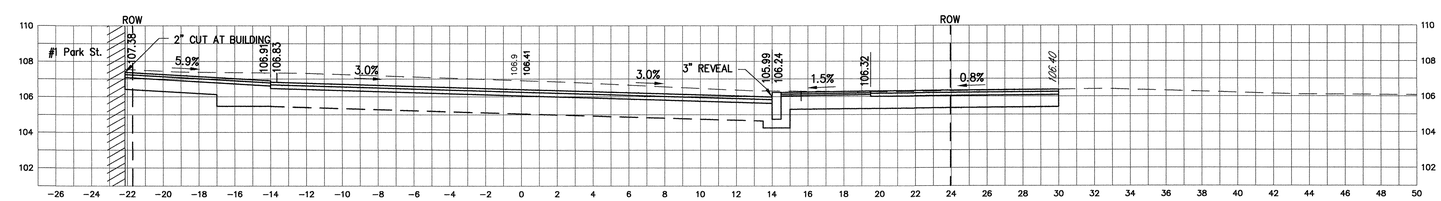



31+50

**31+50 – BEGIN CROSS-SLOPE TRANSITION RIGHT (–3.0% TO –2.0%). TRANSITION RATE: 1% PER 25'**




31+46
DOOR RIGHT




31+36
EDGE OF PARKING LOT RIGHT

0 4 10 20
HOR. SCALE IN FEET

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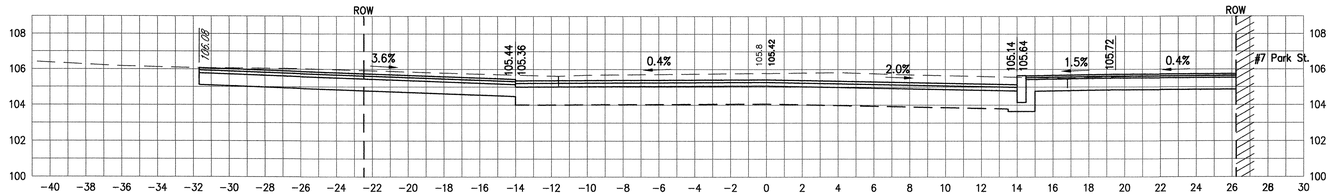
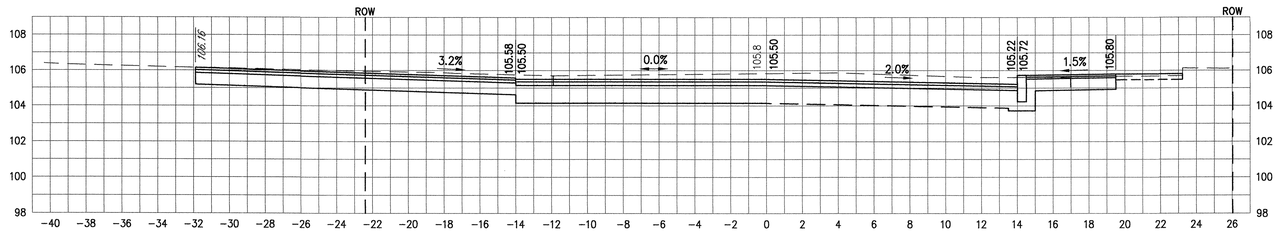
GEORGETOWN
LIBRARY SQUARE

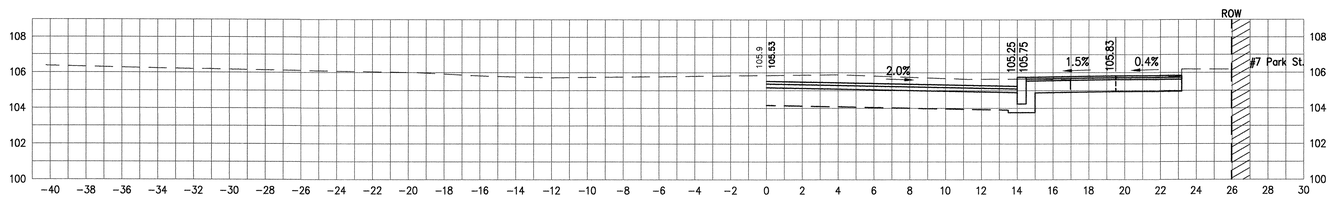
SHEET 42 OF 47
CROSS SECTIONS
PARK STREET



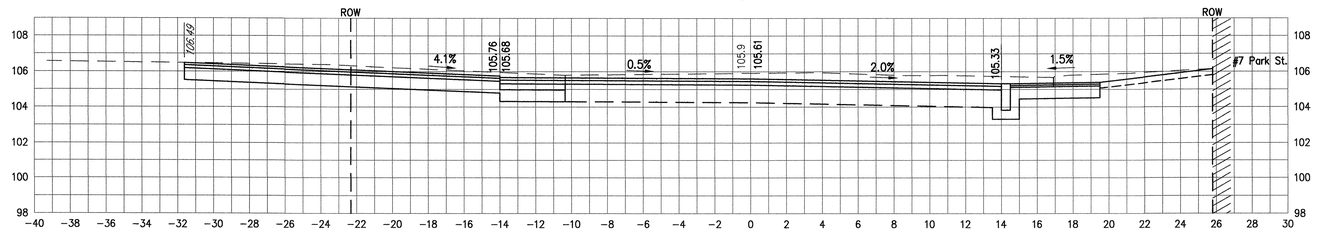

32+61
LOW POINT IN SIDING RIGHT




32+50




32+47
PROP WALK RIGHT




32+37
DRIVEWAY LEFT

0 4 10 20
HOR. SCALE IN FEET

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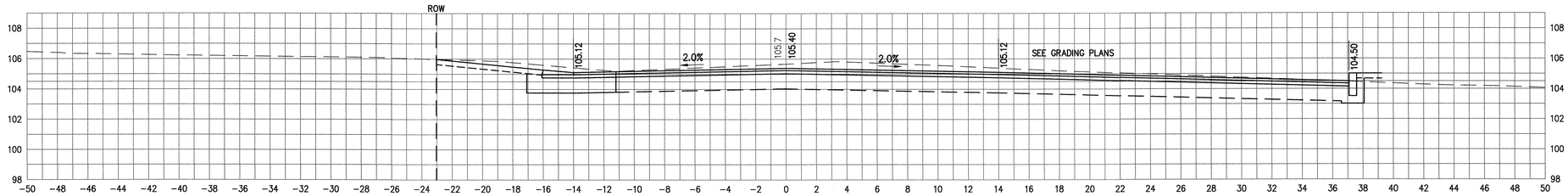
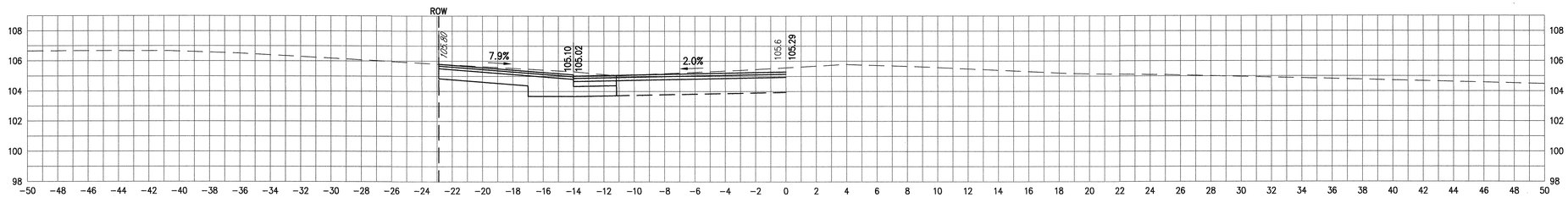
GEORGETOWN
LIBRARY SQUARE

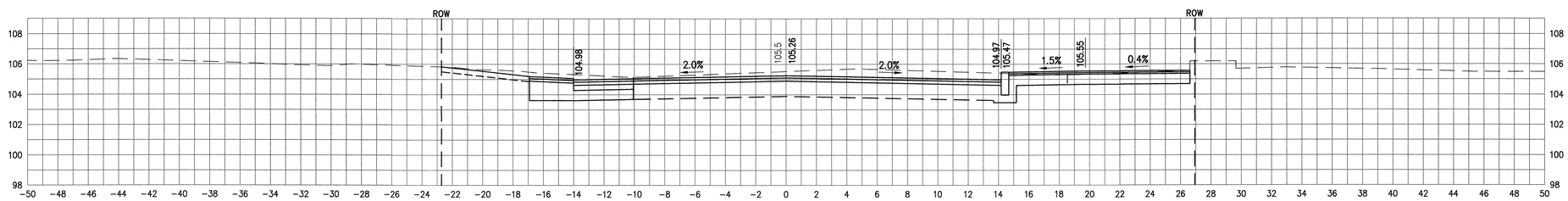
SHEET 43 OF 47
CROSS SECTIONS
PARK STREET




33+50

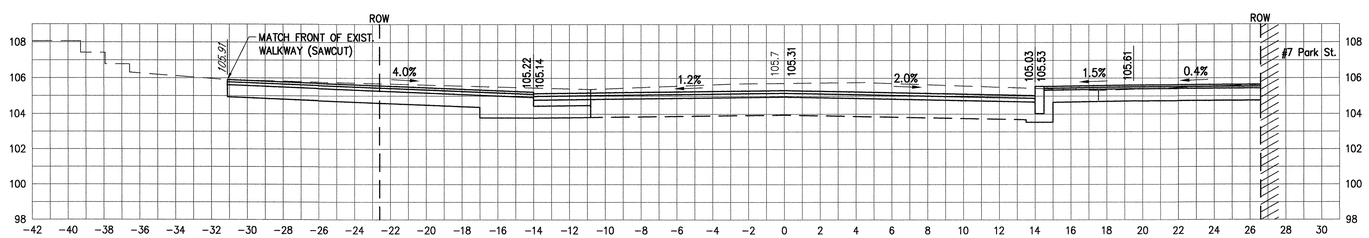



33+27
DRIVEWAY LEFT




33+00

**33+00 – END CROSS-SLOPE TRANSITION LEFT (+3.0% TO –2.0%). TRANSITION RATE: 1% PER 25'**




32+81
STAIRS LEFT

0 4 10 20
HOR. SCALE IN FEET

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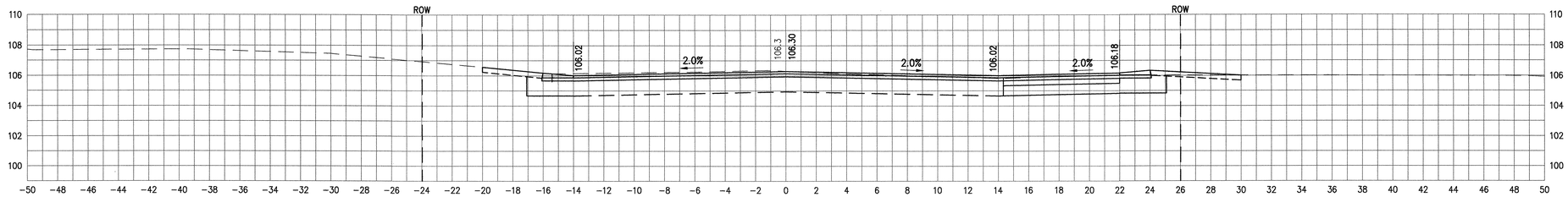
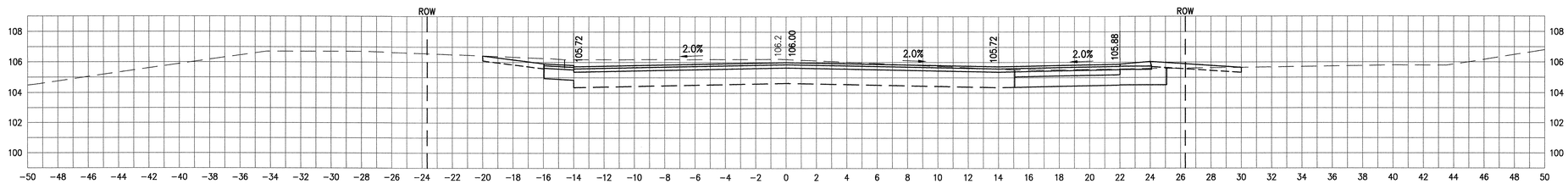
LIBRARY SQUARE

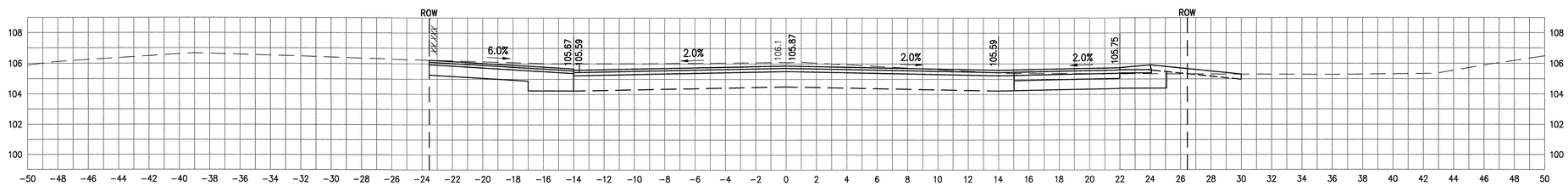
SHEET 44 OF 47
CROSS SECTIONS
PARK STREET



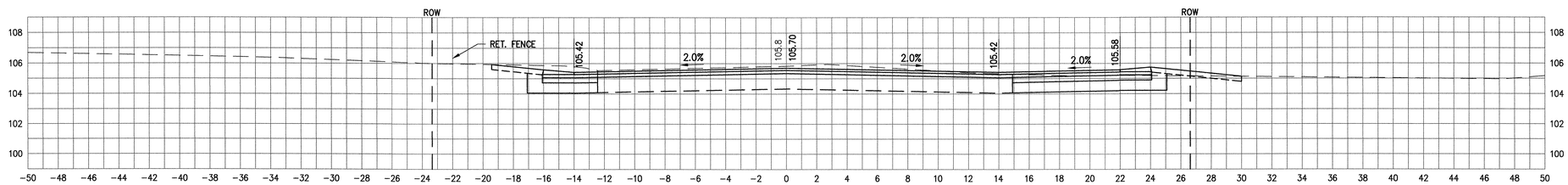

35+00




34+50




34+28
DRIVEWAY LEFT




34+00

0 4 10 20
HOR. SCALE IN FEET

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GEORGETOWN
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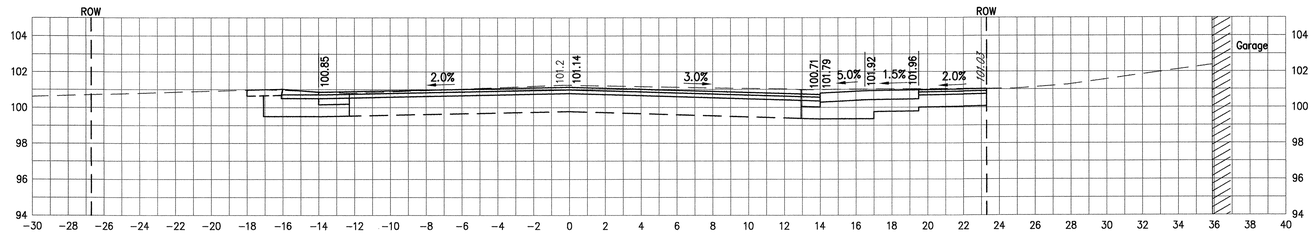
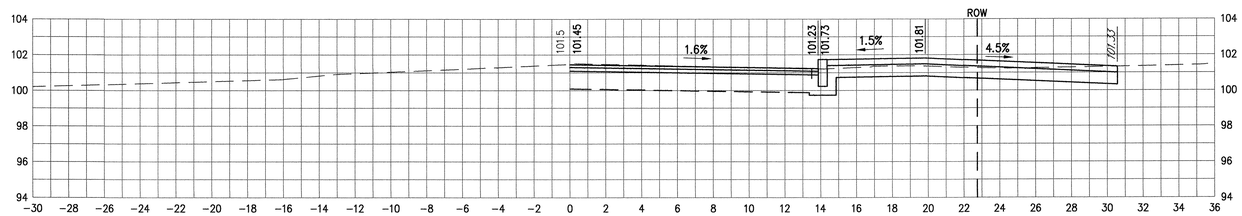
SHEET 45 OF 47
CROSS SECTIONS
WINTER STREET



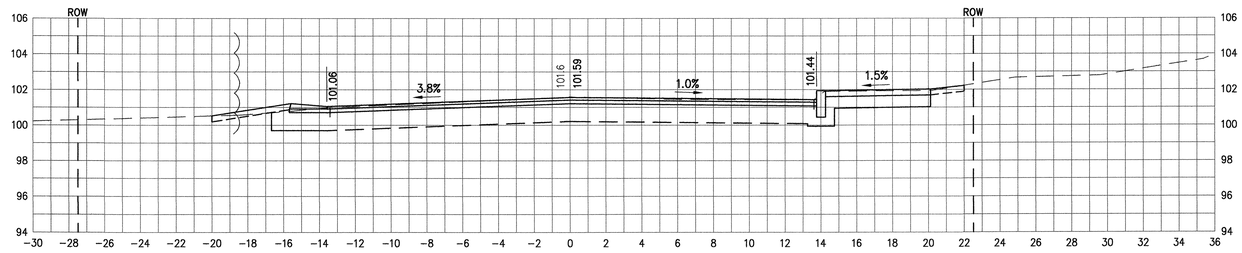

41+00 – DRIVEWAY RIGHT

**41+00 – END CROSS-SLOPE TRANSITION LEFT (–3.8% TO –2.0%). TRANSITION RATE: 1% PER 25'**

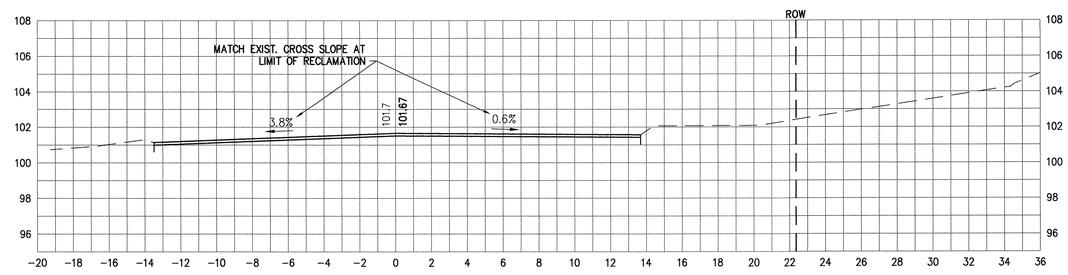



40+65
WALK RIGHT

**40+55 – BEGIN CROSS-SLOPE TRANSITION LEFT (–3.8% TO –2.0%). TRANSITION RATE: 1% PER 25'**




40+50




40+40
LIMIT OF RECLAMATION

**40+40 – BEGIN CROSS-SLOPE TRANSITION RIGHT (–0.6% TO –3.5%). TRANSITION RATE: 1% PER 25'**

0 4 10 20
HOR. SCALE IN FEET

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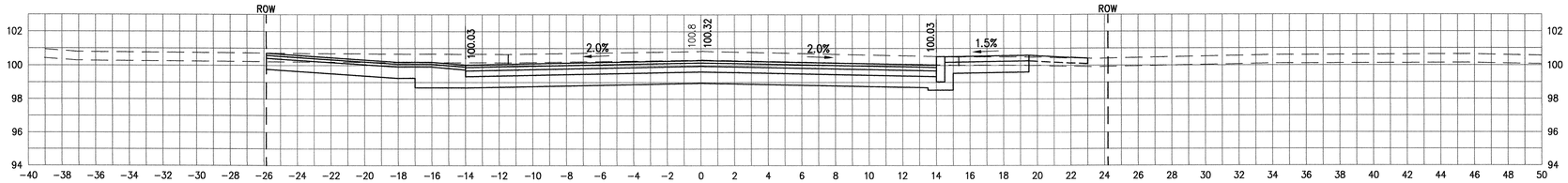
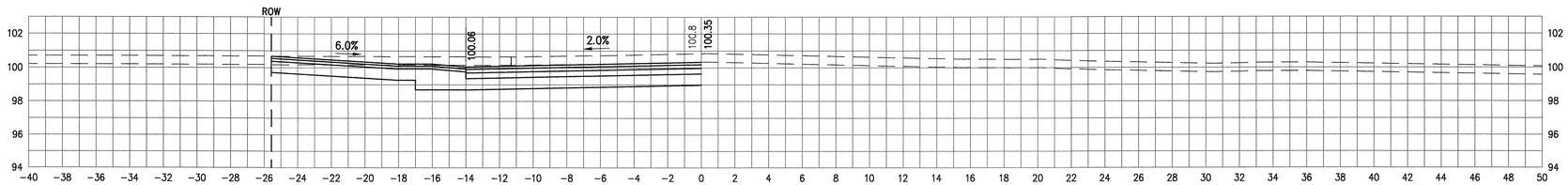
CROSS SECTIONS
WINTER STREET

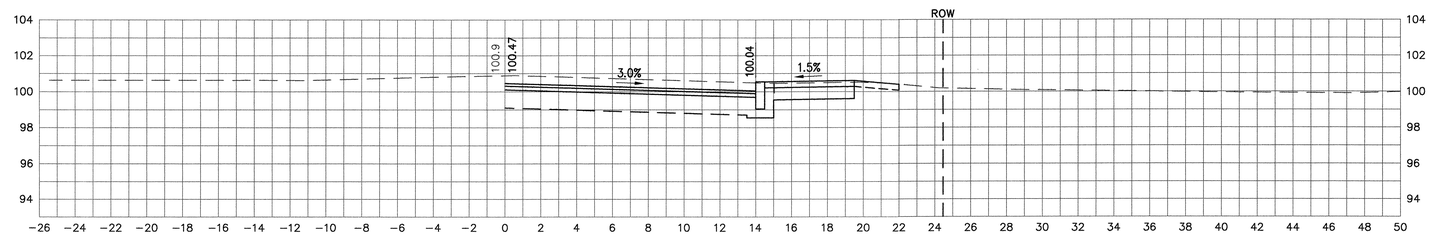



42+00

**42+00 – END CROSS-SLOPE TRANSITION RIGHT (–3.5% TO –2.0%). TRANSITION RATE: 1% PER 25'**

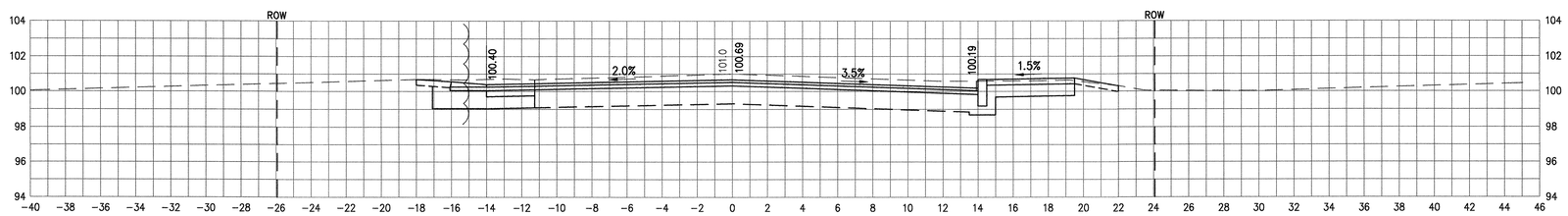



41+93
DRIVEWAY LEFT

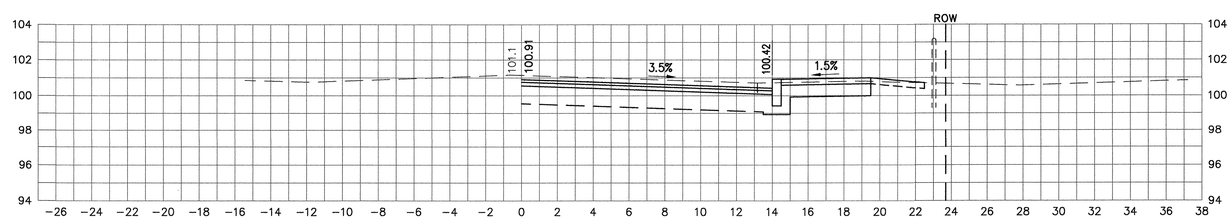



41+75

**41+62.5 – BEGIN CROSS-SLOPE TRANSITION RIGHT (–3.5% TO –2.0%). TRANSITION RATE: 1% PER 25'**




41+50




41+25
GARDEN BEHIND FENCE – RIGHT

**41+12.5 – END CROSS-SLOPE TRANSITION RIGHT (–0.6% TO –3.5%). TRANSITION RATE: 1% PER 25'**

0 4 10 20
HOR. SCALE IN FEET

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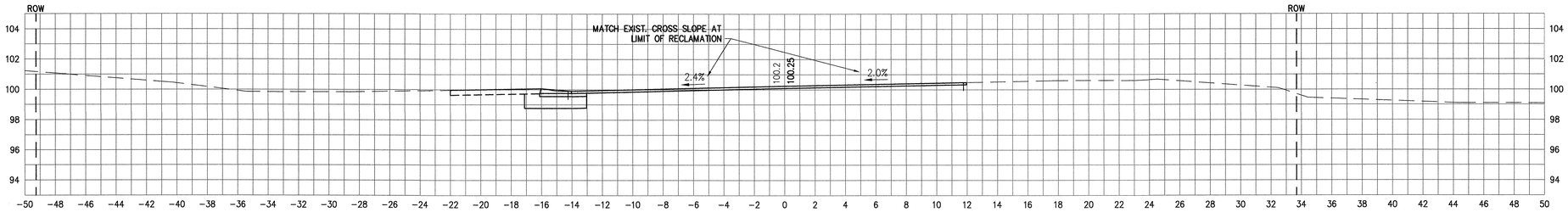
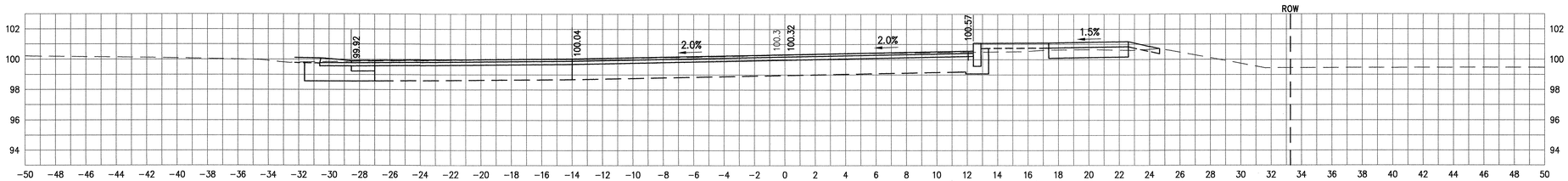
GEORGETOWN
LIBRARY SQUARE

SHEET 47 OF 47
CROSS SECTIONS
WINTER STREET



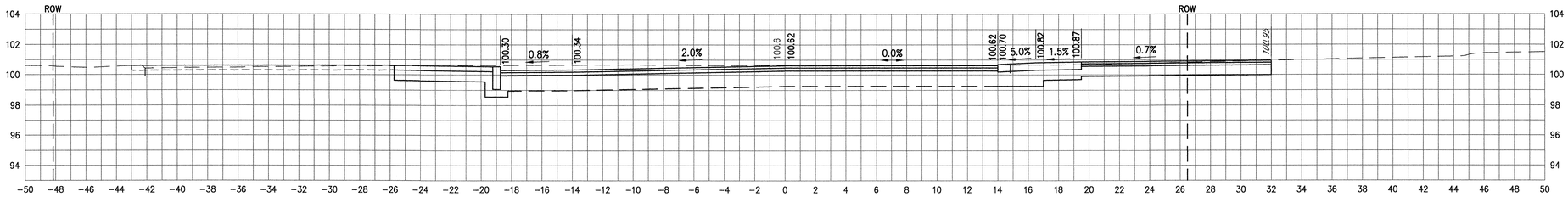

43+62

**43+62 – END CROSS-SLOPE TRANSITION LEFT (–2.0% TO –2.4%). TRANSITION RATE: 1% PER 30'**

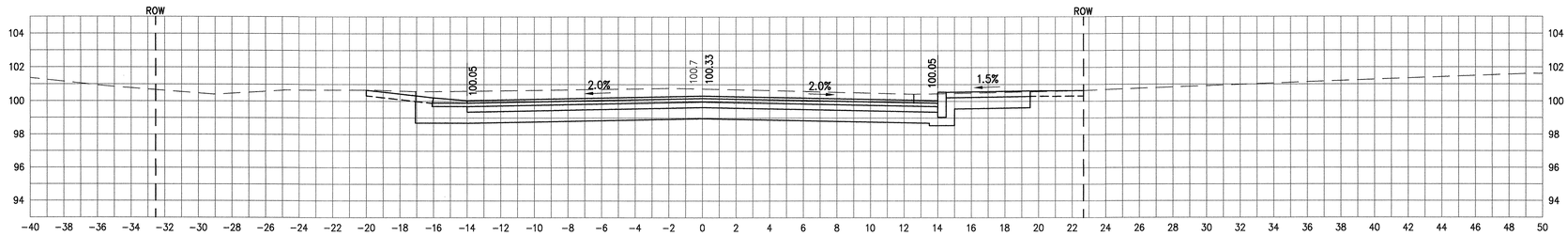



43+50

**43+50 – BEGIN CROSS-SLOPE TRANSITION LEFT (–2.0% TO –2.4%). APPROX. TRANSITION RATE: 1% PER 30'**
**43+50 – END CROSS-SLOPE TRANSITION RIGHT (–2.0% TO +2.0%). APPROX. TRANSITION RATE: 1% PER 25'**




43+00
DRIVEWAY RIGHT




42+50

**42+50 – BEGIN CROSS-SLOPE TRANSITION RIGHT (–2.0% TO +2.0%). APPROX. TRANSITION RATE: 1% PER 25'**

0 4 10 20
HOR. SCALE IN FEET

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