

**SUGGESTED SEQUENCE OF DRAINAGE INSTALLATION**

**STAGE 1**

STAGE 1 WORK SHALL INCLUDE THE CONSTRUCTION OF DRAINAGE ELEMENTS WITHIN THE NORTHBOUND LANES AND EAST PARKWAY.

REMOVE EXISTING DRAINAGE STRUCTURES AND STORM SEWER IN ACCORDANCE WITH THE REMOVAL PLANS AND AS REQUIRED TO CONSTRUCT THE DRAINAGE SYSTEM.

CONSTRUCT PROPOSED MAIN DRAIN STORM SEWER, LATERAL STORM SEWERS, AND INSTALL ASSOCIATED DRAINAGE STRUCTURES WITHIN THE WORK ZONE AND IN ACCORDANCE WITH THE PROPOSED DRAINAGE PLANS.

EXTEND 9 FT. x 6 FT. BOX CULVERT AT MARLEY CREEK.

EXISTING DRAINAGE STRUCTURES AT THE FOLLOWING LOCATIONS SHALL BE ADJUSTED:

CATCH BASINS TO BE ADJUSTED

- STA. 178+74 49' RT
- STA. 178+82 49' RT
- STA. 178+89 49' RT
- STA. 200+60 99' RT
- STA. 201+09 94' RT
- STA. 203+02 60' RT

INLETS TO BE ADJUSTED

- STA. 270+23 50' RT

ADJUST THE FOLLOWING PREVIOUSLY INSTALLED DRAINAGE STRUCTURES: (AT THE CONTRACTORS OPTION AND WITH THE APPROVAL OF THE ENGINEER, OTHER DRAINAGE STRUCTURES WITHIN THE MEDIAN AREA MAY BE INCLUDED)

MANHOLES TO BE ADJUSTED

INLETS TO BE ADJUSTED

CATCH BASINS TO BE ADJUSTED

STR. NO.	STR. NO.	STR. NO.	STR. NO.
• 443	• EX350	• 504	• 341
• EX430	• EX343	• 511A	• 520
• EX400	• EX330		• 551
• EX385A	• EX312		
• EX370	• EX585		

**STAGE 2**

STAGE 2 WORK SHALL INCLUDE THE CONSTRUCTION OF DRAINAGE ELEMENTS WITHIN THE LEFT TURN LANES AND MEDIAN AREA.

REMOVE EXISTING DRAINAGE STRUCTURES AND STORM SEWER IN ACCORDANCE WITH THE REMOVAL PLANS AND AS REQUIRED TO CONSTRUCT THE DRAINAGE SYSTEM.

EXTEND APPROPRIATE PORTIONS OF PROPOSED STORM SEWER LATERALS AND INSTALL ASSOCIATED DRAINAGE STRUCTURES IN ACCORDANCE WITH THE DRAINAGE PLANS. THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO DRAINAGE STRUCTURES WITH APPROPRIATE LENGTHS OF STORM SEWER IN LEFT TURN LANES AND ALONG MEDIAN EDGES.

EXISTING DRAINAGE STRUCTURES AT THE FOLLOWING LOCATIONS SHALL BE ADJUSTED:

CATCH BASINS TO BE ADJUSTED

- STA. 178+76 2' LT
- STA. 178+88 2' LT

MANHOLES TO BE ADJUSTED

- STA. 179+01 3' LT
- STA. 179+17 4' RT

ADJUST THE FOLLOWING PREVIOUSLY INSTALLED DRAINAGE STRUCTURES: (AT THE CONTRACTORS OPTION AND WITH THE APPROVAL OF THE ENGINEER, OTHER DRAINAGE STRUCTURES WITHIN THE MEDIAN AREA MAY BE INCLUDED)

CATCH BASINS TO BE ADJUSTED

- 340
- 505

- 511B
- 564A

INLETS TO BE RECONSTRUCTED

- 529A

**STAGE 2 (CONTINUED)**

MANHOLES TO BE RECONSTRUCTED

STR. NO.	STR. NO.	STR. NO.	STR. NO.
• EX394	• EX534	• EX537	• EX538A

MANHOLES TO BE ADJUSTED

| STR. NO. |
|----------|----------|----------|----------|----------|----------|
| • EX119  | • EX233A | • EX402A | • EX369A | • EX318  | • EX570  |
| • EX110A | • 443C   | • EX403  | • EX366  | • EX315  | • EX577  |
| • EX108  | • EX435  | • EX399  | • EX361  | • EX309  | • EX575  |
| • EX105  | • EX429  | • EX391  | • EX358  | • EX311  | • 580    |
| • EX206  | • EX430  | • EX388  | • EX355  | • EX305  | • 580A   |
| • EX211  | • EX423  | • EX385  | • EX349  | • EX542  | • 581A   |
| • EX214  | • EX420  | • EX384  | • EX333  | • EX543A | • 591    |
| • EX217  | • EX414  | • EX381  | • EX329  | • EX546  | • 590    |
| • EX220  | • EX412  | • EX378  | • EX329A | • EX560A |          |
| • EX223  | • EX409  | • EX373  | • EX326  | • EX560  |          |
| • EX232  | • EX406  | • EX373A | • EX321  | • EX563  |          |

**STAGE 3**

STAGE 3 WORK SHALL INCLUDE THE CONSTRUCTION OF DRAINAGE ELEMENTS WITHIN THE SOUTHBOUND LANES AND WEST PARKWAY.

REMOVE EXISTING DRAINAGE STRUCTURES AND STORM SEWER IN ACCORDANCE WITH THE REMOVAL PLANS AND AS REQUIRED TO CONSTRUCT THE DRAINAGE SYSTEM.

CONSTRUCT PROPOSED MAIN DRAIN STORM SEWER, LATERAL STORM SEWERS, AND INSTALL ASSOCIATED DRAINAGE STRUCTURES WITHIN THE WORK ZONE AND IN ACCORDANCE WITH THE PROPOSED DRAINAGE PLANS.

EXISTING DRAINAGE STRUCTURES AT THE FOLLOWING LOCATIONS SHALL BE ADJUSTED:

CATCH BASINS TO BE ADJUSTED

- STA. 178+84 61' LT
- STA. 178+91 60' LT
- STA. 230+47 67' LT
- STA. 230+81 66' LT

MANHOLES TO BE ADJUSTED

- STA. 179+07 48' LT
- STA. 255+61 57' LT

INLETS TO BE ADJUSTED

- STA. 272+07 49' LT

ADJUST PREVIOUSLY INSTALLED DRAINAGE STRUCTURES. STRUCTURES MAY INCLUDE THOSE IN THE SOUTHBOUND MEDIAN EDGE, SOUTHBOUND EDGE OF PAVEMENT, AND MAIN DRAIN STRUCTURES IN THE WEST PARKWAY.

CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE

STR. NO.	STR. NO.	STR. NO.
• 521	• 552	• 564B

CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 23 FRAME AND GRATE

STR. NO.
• 529B

MANHOLES TO BE RECONSTRUCTED

STR. NO.
• EX538

CATCH BASINS TO BE ADJUSTED

STR. NO.
• 339

**STAGE 3 (CONTINUED)**

MANHOLES TO BE ADJUSTED

| STR. NO. |
|----------|----------|----------|----------|----------|----------|
| • EX120  | • 338    | • 513    | • EX531  | • EX557  | • EX584  |
| • 115    | • 502    | • 516    | • EX539  | • EX567  |          |
| • 235    | • 507    | • 525    | • EX543  | • EX571  |          |
| • 445    | • 510    | • 528    | • EX547  | • 581B   |          |

REMOVE TEMPORARY CONNECTION FROM THE EXISTING STORM SEWER LATERAL PIPES DRAINING THE SOUTHBOUND EDGE OF PAVEMENT DRAINAGE STRUCTURES TO THE PROPOSED MEDIAN MAIN DRAIN STORM SEWER AND PLUG PIPE AT THE FOLLOWING LOCATIONS:

- STA. 238+73
- STA. 240+25
- STA. 242+85
- STA. 243+62
- STA. 260+07

REMOVE TEMPORARY CONNECTIONS INSTALLED AS PART OF CONSTRUCTION CONTRACT 60W09 FROM THE EXISTING STORM SEWER LATERAL PIPES DRAINING THE SOUTHBOUND EDGE OF PAVEMENT AND MEDIAN DRAINAGE STRUCTURES TO THE PROPOSED MEDIAN MAIN DRAIN STORM SEWER AND PLUG PIPE AT THE FOLLOWING LOCATIONS:

- STA. 191+84
- STA. 195+15
- STA. 196+80
- STA. 202+23
- STA. 204+12
- STA. 206+00
- STA. 207+95
- STA. 209+80
- STA. 212+85
- STA. 216+75
- STA. 218+35
- STA. 219+95
- STA. 226+12
- STA. 229+65
- STA. 231+80
- STA. 247+20
- STA. 252+80
- STA. 257+33
- STA. 263+50

**STAGE 4**

STAGE 4 WORK SHALL INCLUDE ADJUSTING DRAINAGE STRUCTURES WITHIN THE LEFT TURN LANE AND MEDIAN AREAS AND INSTALLING FRAMES, GRATES, AND LIDS.

ADJUST THE FOLLOWING PREVIOUSLY INSTALLED DRAINAGE STRUCTURES:

MANHOLES TO BE ADJUSTED

| STR. NO. |
|----------|----------|----------|----------|----------|----------|
| • EX119  | • EX233A | • EX402A | • EX373A | • EX305  | • EX577  |
| • EX110A | • 443C   | • EX403  | • EX369A | • EX534  | • EX575  |
| • EX108  | • EX435  | • EX399  | • EX366  | • EX537  | • 580    |
| • EX105  | • EX429  | • EX394  | • EX329  | • EX538A | • 580A   |
| • EX206  | • EX430  | • EX391  | • EX329A | • EX542  | • 581A   |
| • EX211  | • EX423  | • EX388  | • EX326  | • EX543A | • 591    |
| • EX214  | • EX420  | • EX385  | • EX321  | • EX546  | • 590    |
| • EX217  | • EX414  | • EX384  | • EX318  | • EX560A |          |
| • EX220  | • EX412  | • EX381  | • EX315  | • EX560  |          |
| • EX223  | • EX409  | • EX378  | • EX309  | • EX563  |          |
| • EX232  | • EX406  | • EX373  | • EX311  | • EX570  |          |

REPLACE THE FRAMES AND GRATES OF THE FOLLOWING DRAINAGE STRUCTURES:

FRAMES AND GRATES, TYPE 23

| STR. NO. |
|----------|----------|----------|----------|----------|----------|
| • 110    | • 443A   | • 391A   | • 349A   | • 504    | • 558A   |
| • 111    | • 432    | • 390A   | • 340A   | • 505    | • 561A   |
| • 105A   | • 433    | • 382A   | • 340    | • 511A   | • 564A   |
| • 105B   | • 424A   | • 383A   | • 341    | • 511B   | • 568A   |
| • 201    | • 424B   | • 375    | • 334A   | • 520    | • 573    |
| • 208    | • 420A   | • 376    | • 335A   | • 529A   | • 578B   |
| • 209    | • 418A   | • 371A   | • 327A   | • 542A   | • 579B   |
| • 218A   | • 412A   | • 371B   | • 328A   | • 545A   | • 592    |
| • 218B   | • 404B   | • 363    | • 320A   | • 544A   | • 594    |
| • 221A   | • 396    | • 364    | • 314A   | • 544B   | • 588    |
| • 227    | • 397    | • 385A   | • 305A   | • 551    |          |

