STATE OF ILLINOIS  
CITY OF CHICAGO  
LORI E. LIGHTFOOT, MAYOR  
DEPARTMENT OF TRANSPORTATION  
GIA BIAGI, COMMISSIONER  
DIVISION OF ENGINEERING  
DANIEL BURKE, P.E., S.E.  MANAGING DEPUTY COMMISSIONER  

CONTRACT PLANS  
FOR  

JACKSON PARK MOBILITY IMPROVEMENTS  

S. LAKE SHORE DRIVE (US 41) FROM E. HAYES DRIVE TO E. 57TH DRIVE  
S. STONY ISLAND AVENUE FROM E. 64TH STREET TO E. 59TH STREET  
S. CORNELL DRIVE FROM 6400 S TO E. HAYES DRIVE  
E. HAYES DRIVE FROM S. CORNELL DRIVE TO S. LAKE SHORE DRIVE  
E. 63RD STREET FROM S. STONY ISLAND AVENUE TO S. CORNELL DRIVE  

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.  

TRAFFIC DATA  

<table>
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<tr>
<th>AVERAGE DAILY TRAFFIC</th>
<th>SPEED LIMIT</th>
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<tr>
<td>LAKE SHORE DRIVE</td>
<td>45,400</td>
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<td>STONY ISLAND AVENUE</td>
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<td>57TH DRIVE</td>
<td>30,000</td>
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</table>


DEPARTMENT OF PROCUREMENT SERVICES  
MONICA JIMENEZ, FIRST DEPUTY PROCUREMENT OFFICER  

VOLUME 2 OF 4  
OUC EFP FILES:  
EFP-107977  
EFP-108167  
EFP-108168  

PAGE TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO CALL O.G.I.E.C.E. AT 815 OR 312-744-7002 FOR UNRECORDED UTILITIES LOCATIONS.  

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.
EXISTING CONDITIONS

PROPOSED CONDITIONS

NOTE:
1. SEE WATER MAIN PROFILE FOR ADDITIONAL CROSSING CLEARANCE INFORMATION.
2. 36" MAXIMUM TRENCH WIDTH UNDER WATER MAIN.
3. FOR CONSTRUCTION AND/OR PROPOSED WATER MAIN, SEE UTILITY NOTE 34 ON SHEET GEN-4.
5. THE USE OF INLETS AND 3' CATCH BASINS TO BE ADJUSTED TO MEET BY DREM SNV.

LOCATION KEY

A REPRESENTATIVE OF THE DW MUST BE PRESENT DURING THE EXCAVATION AND INSTALLATION NEAR THE EX 4-INCH WATER MAIN. IT IS REQUIRED THAT THE FORCE ACCOUNT CONSTRUCTION MANAGER BE CONTACTED AT FACILITY/HEAT S 724-5200 PRIOR TO THE ANTICIPATED CONSTRUCTION DATE SO A REPRESENTATIVE WILL ADHERE TO THE SCHEDULE PROVIDED BY INFRASTRUCTURE, INC. A REVISED CONSTRUCTION DETAILS PACKAGE MUST BE SWAPPED IN THE PROPOSED PROJECT TO VERIFY THAT ALL WORK CONFORMS TO DW'S STANDARDS. HAND EXCAVATION IS REQUIRED TO PLOP THE ENSRICAL AND VERTICAL LOCATION OF THE EX 4-INCH WATER MAIN PRIOR TO CONSTRUCTION.
EXISTING CONDITIONS

PROPOSED CONDITIONS

NOTES:
1. SEE WATER MAIN PROFILE
2. 36" MAXIMUM TRENCH
3. WIDTH UNDER WATER MAIN
4. SEE DETAIL 4 ON SHEET DRN-38 FOR CONNECTION DETAIL

LOCATION KEY
C = Connector
P = Pump Station
D = Drainage

13-1/4' (Edge to Edge) Horizontal Clearance
6.75' Horizontal Clearance (BY OTHERS)
10.58' Horizontal Clearance (Edge to Edge)

1. SEE WATER MAIN PROFILE FOR ADDITIONAL CROSSING CLEARANCE INFORMATION.
2. 36" MAXIMUM TRENCH WIDTH UNDER WATER MAIN
3. FOR CONSTRUCTION AROUND PROPOSED WATER MAIN, SEE UTILITY NOTE 14 ON SHEET DRN-38
4. SEE DETAIL 4 ON SHEET DRN-38 FOR CONNECTION DETAIL

TO BE LINED - 75'
EXISTING 36" SEWER
TO BE LINED - 15'
EXISTING 36" SEWER

STORM SEWER REMOVAL 15" - 140'
STORM SEWER REMOVAL 24" - 202'
STORM SEWER REMOVAL 66" - 22'
STORM SEWER REMOVAL 12" - 33'
STORM SEWER REMOVAL 12" - 23'
STORM SEWER REMOVAL 8" - 4'
STORM SEWER REMOVAL 8" - 22'
STORM SEWER REMOVAL 8" - 4'
STORM SEWER REMOVAL 12" - 37'
STORM SEWER REMOVAL 8" - 14'
STORM SEWER REMOVAL 66" - 22'
STORM SEWER REMOVAL 12" - 37'
STORM SEWER REMOVAL 15" - 291'
STORM SEWER REMOVAL 12" - 23'
STORM SEWER REMOVAL 8" - 4'
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STORM SEWER REMOVAL 8" - 4'
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STORM SEWER REMOVAL 12" - 23'
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STORM SEWER REMOVAL 12" - 37'
STORM SEWER REMOVAL 12" - 23'
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<th>CONTRACT NO.</th>
<th>PROJECT NO.</th>
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<th>STA.</th>
<th>RT</th>
<th>RIM EL.</th>
<th>INV EL.</th>
<th>SCALE</th>
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<td>STA. 245+78.30, 24.5' LT</td>
<td>247+18.62, 24.50' LT</td>
<td>RIM EL. 6.91</td>
<td>INV EL. 2.41 (E)</td>
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<td>CB TYPE A 4' DIA, T1F OL (COC)</td>
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<td>RIM EL. 7.17</td>
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<td>45</td>
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<td>STA. 247+18.62, 24.50' LT</td>
<td>245+78.30, 24.5' LT</td>
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<td>INV EL. 2.41 (E)</td>
<td>45</td>
<td>CB TYPE A 4' DIA, T1F OL (COC)</td>
<td>STA. 249+41.02, 24.50' LT</td>
<td>RIM EL. 6.91</td>
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<td>247+40.86, 19.53' RT</td>
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**STORM SEWERS**

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<tr>
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<th>RT</th>
<th>RIM EL.</th>
<th>INV EL.</th>
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<td>44</td>
<td>STORM SEWERS TYPE 1, DIP</td>
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<td>46</td>
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<td>STORM SEWERS TYPE 2, DIP</td>
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<td>INV EL. 2.41 (E)</td>
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<td>STORM SEWERS TYPE 1, DIP</td>
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<td>INV EL. 2.41 (E)</td>
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<td>INV EL. 2.41 (E)</td>
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**DRAINAGE PLAN**

- **NOTES:**
  - S. STONY ISLAND AVE.
  - OF TRANSPORTATION
  - CHICAGO DEPARTMENT
  - JACKSON PARK MOBILITY IMPROVEMENTS

**SCALE:**

- NONE

**FILE NAME:**

- P:\CIVIL-PW-IN\TECH\LOCAL:CIVILTECH\PROJECTS\DOCUMENTS\PROJECTS\3153\CAD\SHEETS\D&U\20-plnpln\sh-t-du-008bg.png

**PLOT DATE:**

- 5/17/2021

**PLOT SCALE:**

- 40.0000" /in.
EXISTING CONDITIONS

1. See water line profile for additional crossing clearance information.
2. 24" maximum trench width under water main.
3. For construction around proposed water main, see utility note 14 on sheet D924.

PROPOSED CONDITIONS

1. Orient the barrel of the catch basin structure to be away from the proposed water main.
2. See water main profile for additional crossing clearance information.
3. See additional notes for structural and water main design.

NOTES:

- See notes 4 & 5 for additional notes.
## DRAINAGE PLAN

### Jackson Park Mobility Improvements

#### Sta. 256+50 to Sta. 262+00

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<tr>
<th>Sheet No.</th>
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<td>INV EL. 3.50 (W)</td>
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<td>STA. 257+92.01</td>
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<td>INV EL. -1.35 (SE)</td>
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### Total Sheets: 77

#### Storm Sewers

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<td>63' @ 0.26%</td>
<td>TYPE 2, DIP</td>
<td>STORM SEWERS</td>
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<td>30.0 CY</td>
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<td>3.0 CY</td>
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<td>6.0 CY</td>
<td>57' @ 0.54%</td>
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</table>
EXISTING CONDITIONS

PROPOSED CONDITIONS

LOCATION KEY

PREVIOUSLY ABANDONED SEWER

S. STONY ISLAND AVE.
EXISTING CONDITIONS

PROPOSED CONDITIONS

LOCATION KEY

STORM SEWER REMOVAL 24" - 140'
STORM SEWER REMOVAL 24" - 152'
STORM SEWER REMOVAL 12" - 36'
STORM SEWER REMOVAL 12" - 36'
TOP SEWER = 2.45
BOTTOM WATER = 4.26
TOP SEWER = 2.45
TOP SEWER = 2.45

SCALE IN FEET

DATE: 01/22/2021

DESIGN: DRAWN: CHECKED: APPROVED:

REFERENCES:

FILE NAME: PLOT DATE: PLOT SCALE:

5/17/2021

40.0000 ' / in.

PROJECT NO.

CONTRACT NO.

TOTAL SHEETS

SHEET NO.

DRAWING NO.

FILE NAME: PLOT DATE: PLOT SCALE:

5/17/2021

40.0000 ' / in.

PROJECT NO.

CONTRACT NO.

TOTAL SHEETS

SHEET NO.

DRAWING NO.

FILE NAME: PLOT DATE: PLOT SCALE:

5/17/2021

40.0000 ' / in.

PROJECT NO.

CONTRACT NO.

TOTAL SHEETS

SHEET NO.

DRAWING NO.

FILE NAME: PLOT DATE: PLOT SCALE:

5/17/2021

40.0000 ' / in.

PROJECT NO.

CONTRACT NO.

TOTAL SHEETS

SHEET NO.

DRAWING NO.

FILE NAME: PLOT DATE: PLOT SCALE:

5/17/2021

40.0000 ' / in.

PROJECT NO.

CONTRACT NO.

TOTAL SHEETS

SHEET NO.

DRAWING NO.

FILE NAME: PLOT DATE: PLOT SCALE:

5/17/2021

40.0000 ' / in.

PROJECT NO.

CONTRACT NO.

TOTAL SHEETS

SHEET NO.

DRAWING NO.

FILE NAME: PLOT DATE: PLOT SCALE:

5/17/2021

40.0000 ' / in.

PROJECT NO.

CONTRACT NO.

TOTAL SHEETS

SHEET NO.

DRAWING NO.

FILE NAME: PLOT DATE: PLOT SCALE:

5/17/2021

40.0000 ' / in.
DRAINAGE PLAN
PROPOSED CONDITIONS
S. CORNELL DR.

LOCATION KEY
S E E H E T A R N  -1
8 0 1 2 + 0 0
8 0 1 3
8 0 1 4
8 0 1 5 + 0 0

PROPOSED SHEET
PILE CUT-OFF WALL

TOP SEWER = 2.01
BOTTOM WATER = 3.52

TOTAL SHEETS
SHEET NO.
DRN-21
DRAWING NO.
PROJECT NO.
CONTRACT NO.
01/22/2021

FILE NAME:
PLOT DATE:
PLOT SCALE:
5/17/2021
40.0000' / in.

SCALE:
1''=20'

FLAGE
8 0 1 6
8 0 8
8 0 7
8 0 9
8 0 6
8 0 5 + 0 0
8 0 4
8 0 3
8 0 2
8 0 1
5 0 0 + 0 0

PILE CUT-OFF WALL
PROPOSED SHEET

SEE SHEET DRN-40
EXISTING CONDITIONS

STORM SEWER REMOVAL 12" - 40'
STORM SEWER REMOVAL 24" - 32'
OPC SITE BOUNDARY

PROPOSED CONDITIONS

STORM SEWER REMOVAL 24" - 149'
STORM SEWER REMOVAL 24" - 148'
STORM SEWER REMOVAL 24" - 148'
STORM SEWER REMOVAL 24" - 149'
STORM SEWER REMOVAL 12" - 43'
STORM SEWER REMOVAL 12" - 30'
STORM SEWER REMOVAL 12" - 36'
STORM SEWER REMOVAL 12" - 40'
OPC SITE BOUNDARY

LOCATION KEY

STORM SEWER REMOVAL 24" - 147'
STORM SEWER REMOVAL 24" - 148'
STORM SEWER REMOVAL 24" - 53'
STORM SEWER REMOVAL 24" - 53'
12" DIP SANITARY SEWER TO REMAIN
OPC SITE BOUNDARY
BY OTHERS

FILE NAME:
PLOT DATE:
PLOT SCALE:
5/17/2021
454.0000' / in.

EXISTING CONDITIONS

PROPOSED CONDITIONS
NOTES

1. The removal of the existing storm sewer should be coordinated with the installation of the proposed sheet pile cut off wall.
EXISTING CONDITIONS

PROPOSED CONDITIONS

LOCATION KEY

EXISTING 30" SEWER TO BE LINED - 171'
EXISTING 36" SEWER TO BE LINED - 293'
EXISTING 36" SEWER TO BE LINED - 88'
EXISTING 13'-4" X 7'-0" WEIR STRUCTURE
PROPOSED CONDITIONS

MATCHED SHEET PARN 52

S. RICHARDS DR.

LOCATION KEY

SCALE: 1" = 20'

PROPOSED CONDITIONS

S. RICHARDS DR.

FILE NAME:
PLOT DATE:
PLOT SCALE:

TOTAL SHEETS:

SHEET NO.

DRAWING NO.

CONTRACT NO.

PROJECT NO.

- B-7-203

5 0

1 2

5 0

1 3

5 0

1 4

5 0

1 5

+ 0

0

9 0 2 3

9 0 2 2

9 0 2 1

9 0 2 0 + 0 0

9 0 2 3

G

W

W

G

9 0 1 9 + 5 0

9 0 2 3 + 0 0

9 0 2 1

9 0 2 0

G

W

W

G

RICHARDS DRIVE

CIVIL TECH LOCAL: CIVIL TECH PROJECTS

REVISIONS

NO.

BY

DATE

DESCRIPTION

DRAINAGE PLAN

JACKSON PARK MOBILITY IMPROVEMENTS

B-7-203

- D & U - 063.dgn

F I L E  N A M E :

P L O T  D A T E :

P L O T  S C A L E :
EXISTING CONDITIONS

MATCH LINE STA 5023+00.00
SEE SHEET DRN-49

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 13'

STORM SEWER REMOVAL 15" - 105'

STORM SEWER REMOVAL 12" - 257'

STORM SEWER REMOVAL 12" - 25'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'

STORM SEWER REMOVAL 12" - 22'

STORM SEWER REMOVAL 12" - 20'

STORM SEWER REMOVAL 15" - 19'

STORM SEWER REMOVAL 15" - 79'

STORM SEWER REMOVAL 8" - 34'
INV EL. -8.42 (W)
RIM EL. -5.00
STA. 5025+88.62, 40.80' RT

INV EL. 2.21 (NE/S)
RIM EL. 9.95
STA. 9903+79.57, 33.00' LT

MH TYPE A 4' DIA, T1F CL (COC)

INV EL. 0.19 (N/S)
RIM EL. 9.84
STA. 9903+57.24, 65.18' LT
SAN MH TYPE A 4' DIA, T1F CL (COC)

INV EL. TBD (EX SE)
INV EL. 0.26 (N)
RIM EL. 9.24
SAN MH TYPE A 4' DIA, T1F CL (COC)

INV EL. -0.89 (SW)
RIM EL. 9.97
STA. 5025+13.03, 230.20' RT
MH TYPE B 3' DIA, T1F CL (COC)

INV EL. -1.55 (N/E)
RIM EL. 5.05
STA. 5025+40.54, 29.65' LT
INLET TYPE A T1F OL (COC)

INLET TYPE A T1F OL (COC)

INV EL. 3.08 (NE)
INV EL. 3.17 (E)
CB TYPE A 4' DIA, T1F OL (COC)

INV EL. 3.04 (W)
INV EL. 3.45 (E)
INV EL. -1.78 (S/NW)
STA. 5025+33.02, 34.75' RT
CB TYPE A 4' DIA, T1F OL (COC)

INV EL. 3.50 (W)
RIM EL. 8.00
STA. 5025+47.09, 38.24' RT
CB TYPE A 4' DIA, T1F OL (COC)

INV EL. 5.10 (SE/NW)
RIM EL. 9.60
STA. 9906+86.60, 44.00' LT
SAN MH TYPE A 4' DIA, T1F OL (COC)

INV EL. -9.98 (S/W)
INV EL. -9.50 (SE)
STA. 5025+52.86', 66.78' LT
MH TYPE A 6' DIA, T1F CL (COC)

INV EL. 3.31 (W)
INV EL. 3.30 (SW/SE)
RIM EL. 7.51
STA. 5025+17.22, 45.96' LT
CB TYPE A 4' DIA, T1F OL (COC)

CHICAGO DEPARTMENT
OF TRANSPORTATION

TBF - 1.0 CY
TYPE 1, ESVCP
STORM SEWERS

TBF - 6.0 CY
8" - 32' @ 0.54%
TYPE 2, ESVCP
STORM SEWERS

TBF - 94.0 CY
16" - 104' @ 0.31%
TYPE 2, DIP
STORM SEWERS

TBF - 193.0 CY
12" - 155' @ 0.39%
TYPE 2, DIP
STORM SEWERS

TBF - 0.0 CY
TYPE 2, DIP
SANITARY SEWERS

TBF - 5.0 CY
TYPE 2, ESVCP
STORM SEWERS

TBF - 9.0 CY
12" - 44' @ 0.50%
TYPE 2, ESVCP
STORM SEWERS

TBF - 4.0 CY
18" - 76' @ 0.44%
TYPE 1, DIP
STORM SEWERS

TBF - 55.0 CY
36" - 40' @ 0.12%
TYPE 2, DIP
STORM SEWERS

TBF - 0.0 CY
STEEL CASING
STORM SEWERS

TBF - 2.0 CY
8" - 10' @ 0.54%
TYPE 2, ESVCP
STORM SEWERS

TBF - 1.0 CY
8" - 12' @ 0.58%
TYPE 1, ESVCP
STORM SEWERS

TBF - 5.0 CY
8" - 23' @ 0.54%
TYPE 2, ESVCP
STORM SEWERS

TBF - 2.0 CY
8" - 19' @ 0.54%
TYPE 2, ESVCP
STORM SEWERS

TBF - 1.0 CY
8" - 12' @ 0.54%
STORM SEWERS

TBF - 2.0 CY
8" - 9' @ 0.54%
TYPE 1, ESVCP
STORM SEWERS

SANITARY SEWERS

12" - 17' @ 0.39%

TBF - 90.0 CY
16" - 124' @ 0.32%
TYPE 2, DIP
SANITARY SEWERS

TBF - 4.0 CY
18" - 76' @ 0.44%
TYPE 1, DIP
SANITARY SEWERS

TBF - 5.0 CY
8" - 23' @ 0.54%
TYPE 2, ESVCP
SANITARY SEWERS

TBF - 2.0 CY
8" - 19' @ 0.54%
TYPE 2, ESVCP
SANITARY SEWERS

TBF - 0.0 CY
12" - 51' @ 0.39%
TYPE 2, DIP
SANITARY SEWERS
EXISTING CONDITIONS

PROPOSED CONDITIONS

LOCATION KEY

INV EL. 5.14 (NE)  
RIM EL. 9.63  
STA. 9918+29.08, 33.00' LT  
CB TYPE A 4' DIA, T24F&G

US 41 (LAKE SHORE DRIVE)

S. LAKE SHORE DR.

JACKSON PARK MOBILITY IMPROVEMENTS

CDOT ENGINEERING DEPARTMENT OF TRANSPORTATION

DRAWN:
CHECKED:
APPROVED:
DATE:

REV1
REV2
REV3

MSA
MSA
TKL

1/22/2021

9916+00
9921+00

SHEET NO.

CONTRACT NO.
PROJECT NO.

DRAWING NO.

FILE NAME:

PLT DATE:

PLT SCALE:

SCALE:

1' = 20'

TOTAL SHEETS

SHEET

STORM SEWERS
TYPE 2, ESVCP
8 - 10 @ 0.54%

TBF - 2.0 CY

15"
18"
30"
8" - 10' @ 0.54%

15"
18"
30"
30"

30"

185

185
PROPOSED CONDITIONS

MATCH LINE STA 9949+00.00
SEE SHEET CWU-14

MATCH LINE STA 9953+50.00
SEE SHEET CWU-15

57TH DRIVE

PROPOSED CONDITIONS

STORM SEWERS
TYPE 2, ESVCP
8" - 19' @ 0.54%
TBF - 4.0 CY

STORM SEWERS
TYPE 2, ESVCP
8" - 28' @ 0.54%
TBF - 7.0 CY

LOCATION KEY

CS TYPE A, R DOA, TIR 01
STA. 9949+00.00, 2.00' RT
NM CL. 8.50
In. CL. 4.05 (NE)

CS TYPE A, R DOA, TIR 01
STA. 9949+00.00, 2.00' LT
NM CL. 8.50
In. CL. 4.05 (SE)

CS TYPE A, R DOA, TIR 01
STA. 9950+14.51, 6.20' RT
NM CL. 9.30
In. CL. 4.70 (NW)

CS TYPE A, R DOA, TIR 01
STA. 9952+92.23, 0.00' RT/LT
CB TYPE A 4' DIA, T1F OL
INV EL. 4.05 (NE)
RIM EL. 8.55
STA. 9949+90.86, 0.00' RT/LT
CB TYPE A 4' DIA, T1F OL
INV EL. 4.05 (NE)
RIM EL. 8.55
PROFILE SURVEYED
PLOTTED
GRADE CHECKED
B.M. NOTED
STRUCTURE NOTAT’N S CHECKED BY
DATE
NOTE BOOK NO.

PLAN ALIGNMENT CHECKED
RT. OF WAY CHECKED
CAD FILE NAME
$REV3
$REV2
$REV1

MSA
MSA
TKL
01/22/2021
DESIGN:
DRAWN:
CHECKED:
APPROVED:
DATE:
REVISIONS NO.

BY DATE DESCRIPTION

DRAINAGE PROFILE
LAKE SHORE DR.
OF TRANSPORTATION
CHICAGO DEPARTMENT
JACKSON PARK MOBILITY IMPROVEMENTS
STA. TO STA.
SCALE:
AS INDICATED

FILE NAME:
PLOT DATE:
PLOT SCALE:

5/17/2021
512
1434

TOTAL SHEETS SHEET NO.
DRN-82
DRAWING NO.
CONTRACT NO.
PROJECT NO.
-
B-7-203

9901+00
9902+00
9903+00
9904+00
9905+00
9906+00
9907+00
9908+00
9909+00
9910+00
9911+00
9912+00
9913+00
9914+00
9915+00
9916+00
9917+00
9918+00
9919+00
9920+00
9921+00
9922+00
9923+00

11.53
11.66
11.85
11.92
11.80
11.62
11.46
11.27
11.15
11.01
10.83
10.71
10.70
10.83
11.04
11.16
11.07
10.95
10.86
10.77
10.60
11.13
11.86
11.92
11.80
11.65
11.49
11.33
11.17
11.02
10.86
10.71
10.71
10.88
11.08
11.20
10.98
10.83
10.68
10.53
10.53
10.55
10.70

10.60
10.48
10.49
10.63
10.75
10.79
10.68
10.52
10.44
10.50
10.61
10.69
10.62
10.47
10.33
10.31
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10.54
10.38
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10.37
10.53
10.55
10.70

10.53
10.39
10.40
10.57
10.77
10.83
10.71
10.53
10.44
10.51
10.68
10.77
10.70
10.53
10.38
10.29
10.26
10.37
10.55
10.70

SCALE IN FEET (HORIZONTAL)
SCALE IN FEET (VERTICAL)

115
150
200
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
1100

15
10
5
0
-5
-10
-15

5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100

5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100

UPSTREAM MANHOLE
STORM SEWER AT
EXISTING 54"
NOTES:

COORDINATE KEY DETAILS FOR PIPE AND MANHOLE RING WITH SUPPLIER AND/OR MANUFACTURER.

CONCRETE WEIR STRUCTURE
STA. 5002+80.58, 106.96' LT
SEE SHEET 42

MANHOLE WITH BACKFLOW PREVENTER DETAIL

INSET DRN-42

SEE STA. 5002+80.58, 106.96' LT AND ENCLOSURE

BACKFLOW PREVENTER AND ENCLOSURE

STA. 5002+80.58, 106.96' LT
SEE SHEET 42

TOP OF GROUND EL. 6.13

TOP OF GROUND EL. -0.10 CCD

TOP OF GROUND EL. -0.11 CCD

TOP OF GROUND EL. 6.19

TOP OF GROUND EL. 6.19

TOP OF GROUND EL. 6.19

TOP OF GROUND FRAME AND LID, CLOSED LID

BOLTS AND NUTS 4 PER FRAME (GALVANIZED)

DO NOT DRILL

PRECAST INTO TOP RING

4 PER FRAME (GALVANIZED)

6'' X 1/4'' CONT.

4'' X 6'' X 3/8'' ANGLE CONT.

1/2'' DIA. EXPANSION ANCHOR STEEL DOUBLE NUTS

1/2'' DIA. STAINLESS STEEL DOUBLE NUTS

1/2'' DIA. ANCHOR BOLTS AND NUTS

1/2'' DIA. ANCHOR BOLTS AND NUTS

EXTRACTED TEXT:

CONCRETE WEIR STRUCTURE
STA. 5002+80.58, 106.96' LT
SEE SHEET 42

MANHOLE WITH BACKFLOW PREVENTER DETAIL

SUPPLIER AND/OR MANUFACTURER.

COORDINATE KEY DETAILS FOR PIPE AND MANHOLE RING WITH SUPPLIER AND/OR MANUFACTURER.
DRAINAGE DETAIL

MANHOLE WITH RESTRICTOR PLATE

PLAN

SECTION A-A

SECTION B-B

SECTION C-C

INLET TUBE DETAIL

STEEL ANGLE BOLTING DETAILS

JACKSON PARK MOBILITY IMPROVEMENTS

NOTES:
1. ALL ANGLES, ANGLED PLATES AND HARDWARE TO BE SHOWN IN THE DETAIL SHEETS.
2. BOLTS TO BE SHOWN IN SHEET.
3. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
4. BASIS OF PAYMENT: MANHOLE, TYPE A, 9 FT.-11 IN. DIAMETER, TOP 2 ANGLES, CUSHIONED (6), RESTRICTOR PLATE EACH.
5. CUSHIONED (6) RESTRICTOR PLATE

FILE NAME:

5/17/2021

PLOT DATE:

PLOT SCALE:

5.0000' / in.

TOTAL SHEETS:

SHEET NO.

5000+67 6' TIF CL Sharp Edged 4 -5.94 4.61

ON DRN-43

SEE STA. 5002+80.58, 106.96' LT AND ENCLOSURE

BACKFLOW PREVENTER

STEEL ANGLE BOLTING DETAILS

1. ANGLES SHOULD BE 2X4 X 0.5 X FT (2X4 X FT)
2. ANGULAR ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.
4. 9 FT.-11 IN. DIAMETER
5. TOTAL BOLTS REQUIRED: 12

BOLT LOCATIONS

2 EQUAL SPACES

VALUES OF "C" FOR CIRCULAR AND SQUARE CROSSES

C=42 C=85

STATION MANHOLE DIAMETER FRAME Arr. GRATE RESTRICTOR TYPE INSIDE RESTRICTOR TYPE DIAMETER In. (mm) GT INVERT UP RESTRICTOR TYPE ELEVATION (G) TOP OF PLATE OVERFLOW

5000+67 6' TIF CL Sharp Edged 4 -5.94 4.61

ON DRN-43

SEE STA. 5002+80.58, 106.96' LT AND ENCLOSURE

BACKFLOW PREVENTER

ASSURANCE OF COMPLIANCE

CDOT ENGINEER DEPARTMENT OF TRANSPORTATION C'NK

JACKSON PARK MOBILITY IMPROVEMENTS

PROJECT NO. 2021-0070-07-00

JEFFERSON AVE

SEAL NO. 002

EXHIBIT D-2
DRAINAGE DETAIL

STONY ISLAND INTERCEPTOR SEWER

CONNECTION DETAILS

OF TRANSPORTATION

CHICAGO DEPARTMENT

JACKSON PARK MOBILITY IMPROVEMENTS

STA. TO STA.

SCALE: AS INDICATED

FILE NAME:
PLOT DATE:
PLOT SCALE:
5/17/2021
5"=2.5' VERTICAL
5"=5' HORIZONTAL
ALL DETAILS:

PREVIOUS CONNECTION
ALIGN NEW CONNECTION WITH

INV -3.26
16" DIP @ 0.75%
13-1/2' DWM SEWER
12" DIP @ 0.50%
INV -3.19
RIM 7.76
STORM DEPTH
DIAMETER
UPPER 1/6th

PREVIOUS CONNECTION
ALIGN NEW CONNECTION WITH

INV -8.14
22" RCP @ 0.40%
36" RCP @ 0.18%
RIM 7.40
INV -6.49
STORM DEPTH
DIAMETER
UPPER 1/6th

PREVIOUS CONNECTION
ALIGN NEW CONNECTION WITH

INV -4.43
1.5'
STORM DEPTH
DIAMETER
UPPER 1/6th
1. For all drain connections joints must be made as specified in specifications.
2. For ductile iron pipe drain connections see Sheet No. A.1.
3. For backfill of existing drain use concrete, crushed stone, or crushed gravel.
4. For backfill of existing drain use concrete, crushed stone, or crushed gravel.

NOTES:
1. For trench backfill, use 6" of CA-6 sand, crushed stone, or crushed gravel.
2. For backfill of existing drain, use concrete, crushed stone, or crushed gravel.
3. 30" of CA-11 stone is only required for pipe diameters 12" and above.

SEWER TRENCH DETAIL

TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS

TYPICAL DRAIN STACKS FOR FUTURE USE

DRAINAGE DETAIL

CDOT

CIVIL ENGINEERING SUPPLEMENT

CIVIL-CP-001

VITRIFIED CLAY PIPE DRAIN CONNECTIONS

Project No. 2020-2021

CITY OF CHICAGO

DEPARTMENT OF WATER MANAGEMENT

JACKSON PARK MOBILITY IMPROVEMENTS

PERCENT COMPLETE

DATE

DESCRIPTION

30

100

DATE

CITY OF CHICAGO

DEPARTMENT OF WATER MANAGEMENT

JACKSON PARK MOBILITY IMPROVEMENTS

PERCENT COMPLETE

DATE

DESCRIPTION

30

100
**DRAINAGE DETAIL**

**BRICK SEWER DRAIN CONNECTIONS**

**DUCTILE IRON PIPE DRAIN CONNECTIONS**

**FOR MONOLITHIC CONCRETE SEWERS**

1. DUCTILE IRON PIPE MUST BE BELL END OR PUSH-ON JOINTS CONFORMING TO ANSI SPECIFICATIONS.

2. CONNECTIONS AND STACKS SHOWN MUST BE USED FOR 6", 8", & 10" DRAINS ONLY.

3. FOR VITRIFIED CLAY PIPE DRAIN CONNECTION AND DRAIN STACK CONSTRUCTION, SEE SHEET NO. A.1.

4. FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND, OR STONE SAND.

5. FOR GRANULAR EMBEDMENT, USE CA-11 CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

**FOR REINFORCED CONCRETE PIPE SEWERS**

1. DUCTILE IRON PIPE MUST BE BELL END OR PUSH-ON JOINTS CONFORMING TO ANSI SPECIFICATIONS.

2. CONNECTIONS AND STACKS MUST BE USED FOR 6", 8", & 10" DRAINS ONLY.

**NOTES:**

- FOR GRANULAR EMBEDMENT, USE CA-11 CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

**FOR BRICK SEWERS**

1. DUCTILE IRON PIPE MUST BE BELL END OR PUSH-ON JOINTS CONFORMING TO ANSI SPECIFICATIONS.

2. CONNECTIONS AND STACKS SHOWN MUST BE USED FOR 6", 8", & 10" DRAINS ONLY.

3. FOR VITRIFIED CLAY PIPE DRAIN CONNECTION AND DRAIN STACK CONSTRUCTION, SEE SHEET NO. A.1.

4. FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND, OR STONE SAND.

5. FOR GRANULAR EMBEDMENT, USE CA-11 CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

**FOR REINFORCED CONCRETE PIPE SEWERS**

1. DUCTILE IRON PIPE MUST BE BELL END OR PUSH-ON JOINTS CONFORMING TO ANSI SPECIFICATIONS.

2. CONNECTIONS AND STACKS MUST BE USED FOR 6", 8", & 10" DRAINS ONLY.

**NOTES:**

- FOR GRANULAR EMBEDMENT, USE CA-11 CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.
SPECIAL DRAINAGE STRUCTURES
FOR PUBLIC STREETS AND ALLEYS

TOP SLAB
IN WALLS & 10" LENGTH
12" O.C./E.W.
#4 REBAR
(TOP & BOTTOM)
2" KEYWAY
(MAXIMUM 2 RING 8"

NOTE:
FOR CATCH BASINS
STANDARD FLAT TOP SLAB
FOR PUBLIC STREETS AND ALLEYS
SPECIAL DRAINAGE STRUCTURES

GENERAL NOTES

* 6 (150)
(see table)
Bar C
No. 4 (No. 13) bars
 Dia .24 (600)
* (WELDED WIRE FABRIC)
D 0
Bar C
(Total)
D 0
Bar C
(Riser)
D 0
Bar C
(Sealer)
Use mortar

Reinforcement
Bar C
No. 4 (No. 13)
each direction
"A" W.W.F.

TABLE

<table>
<thead>
<tr>
<th>Length</th>
<th>Radius</th>
<th>Dia .</th>
<th>24</th>
<th>30 (760) long</th>
<th>No. 4 (No. 13) bars</th>
</tr>
</thead>
<tbody>
<tr>
<td>4'-0&quot;</td>
<td>4'-0&quot;</td>
<td>2 (50)</td>
<td>(1.2 m)</td>
<td>36</td>
<td>90</td>
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<tr>
<td>5'-0&quot;</td>
<td>5'-0&quot;</td>
<td>3 (810)</td>
<td>(1.5 m)</td>
<td>66</td>
<td>326</td>
</tr>
<tr>
<td>6'-0&quot;</td>
<td>6'-0&quot;</td>
<td>4 (19)</td>
<td>(200)</td>
<td>660</td>
<td>26</td>
</tr>
<tr>
<td>8'-0&quot;</td>
<td>8'-0&quot;</td>
<td>5 (32)</td>
<td>(425 sq. mm/m)</td>
<td>0.20 sq. in./ft.</td>
<td>0.35 sq. in./ft.</td>
</tr>
</tbody>
</table>

NOTES:
FLAT TOP SLAB APPLICATION CAN ONLY BE USED WITH WRITTEN PERMISSION FROM CDWM.
USE LATEST IDOT DETAIL #505001

STANDARD FLAT TOP SLAB
FOR CATCH BASINS

PRECAST REINFORCED
CONCRETE FLAT SLAB TOP
STANDARD NO.03
NOTES:
1. TWO LAYERS OF REINFORCEMENT FOR 66" DIA. MANHOLE AND OVER.

FOR 30" DIA. SEWERS
MANHOLE BASE
FOR 24" DIA. SEWERS
MANHOLE BASE
FOR 48" DIA. TO 120" DIA. INCLUSIVE
SCHEDULE OF REINFORCEMENT

STRUCTURAL NOTES:

Placing of Concrete: Concrete must be placed in accordance with the method outlined in the City of Chicago Standard Specifications. Construction joints - joints not indicated on the drawings must be so made and located as not to impair the strength of the structure and must be approved by the Commissioner. Joints must be constructed in accordance with the method outlined in the specifications.

Concrete Protection for Reinforcement: All reinforcing steel must have clean concrete covering as follows: Unless otherwise noted - 2" at exterior surfaces where concrete is deposited against the ground. 3/8" at surfaces where concrete is formed but subsequently will be in contact with sewer. 2" at all other surfaces.

Reinforcing Steel: All reinforcing bars must be accurately placed and securely supported in bar supports, spacers or other covers. All laps in reinforcing steel must be based upon the JSA, ACS Placing Code. Unless otherwise noted, hooks and bends on bars must conform to recommended details as given in the "Manual of Standard Practice". JSA, ACS 1999.

The following abbreviations are used to indicate the location of reinforcing bars:

T1: DENOTES TOP; T2: DENOTES TOPS;
B1: DENOTES BOTTOM; B2: DENOTES BOTTOM;
E.M. 1: DENOTES END MILD; E.R. 2: DENOTES END RUST.

PLACING BAR SUPPORTS: All reinforcing bars must be supported, anchored and fastened in accordance with the "Recommended Practice for Placing Reinforcing Bars" dated 1985 prepared by the Concrete Reinforcing Steel Institute.

NOTE: All dimensions are drop out of bar. Rebar bars exhibit "D" to outside of bar. Numbers in circles denote bar type.
TYPICAL 4 OPENING TYPE B MANHOLE

BRANCH SIZE CHART

<table>
<thead>
<tr>
<th>ID PIPE (in.)</th>
<th>MATERIAL</th>
<th>OD PIPE (in.)</th>
<th>D_max (in.)</th>
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<tbody>
<tr>
<td>12</td>
<td>VCP</td>
<td>14.36</td>
<td>18.36</td>
</tr>
<tr>
<td>16</td>
<td>VCP</td>
<td>17.8</td>
<td>21.8</td>
</tr>
<tr>
<td>18</td>
<td>VCP</td>
<td>21.48</td>
<td>25.48</td>
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<tr>
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<td>9.05</td>
<td>13.05</td>
</tr>
<tr>
<td>10</td>
<td>DIP</td>
<td>11.1</td>
<td>15.1</td>
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<tr>
<td>12</td>
<td>DIP</td>
<td>13.2</td>
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<td>25.8</td>
<td>29.8</td>
</tr>
<tr>
<td>24</td>
<td>RCP III</td>
<td>30</td>
<td>34</td>
</tr>
<tr>
<td>27</td>
<td>RCP III</td>
<td>33.5</td>
<td>37.5</td>
</tr>
<tr>
<td>30</td>
<td>RCP III</td>
<td>37</td>
<td>41</td>
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<td>33</td>
<td>RCP III</td>
<td>40.5</td>
<td>44.5</td>
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<tr>
<td>36</td>
<td>RCP III</td>
<td>44</td>
<td>48</td>
</tr>
<tr>
<td>42</td>
<td>RCP III</td>
<td>51</td>
<td>55</td>
</tr>
</tbody>
</table>

Notes:
1. If the pipe class is not shown on this table, then D_max = OD pipe + 4"
2. D_max indicates the maximum size of branch opening to be cast or cut into structure.

Notes:
1. Contractor must submit shop drawings of all proposed manhole configurations for approval prior to submission of material orders.
2. Connection bells may be installed at manufacturer's site, or mortared in place in the field.
3. Bases must be precast with the correct number of pipe openings, corresponding to the representation in the plan and profile sheets.
4. Patching, brick, or other material methods of closing unused holes will not be accepted.
NOTES:
1. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF ALL PROPOSED MANHOLE CONFIGURATIONS FOR APPROVAL PRIOR TO SUBMISSION OF MATERIAL ORDERS.
2. CONNECTION BELLS MAY BE INSTALLED AT MANUFACTURER'S SITE, OR MORTARED IN PLACE IN THE FIELD. SEE SHEET A.11 FOR FURTHER CONFIGURATION DETAILS.
3. HOLES MUST BE PREPARED IN THE CORRECT NUMBER OF PIPE DIA. PRIOR TO SUBMISSION OF MATERIAL ORDERS. SEE SECTION B-B FOR RECOMMENDATIONS.
4. BRICKING, BRICKING, OR OTHER MATERIALS OF CLOSING UNUSED HOLES WILL NOT BE ACCEPTED.
5. 6" MINIMUM GRANULAR EMBEDMENT UNDER ALL PRECAST MANHOLE BASES.

SEWER SIZE | BRANCH SIZE | DIMENSION
---|---|---
A | B | C | D | E | F | G
60 | 60 | 42 | 85 | 84 | 6 | 18
60 | 60 | 36 | 85 | 84 | 6 | 24
60 | 60 | 30 | 85 | 84 | 6 | 30
54 | 54 | 42 | 79 | 78 | 6 | 12
54 | 54 | 36 | 79 | 78 | 6 | 18
54 | 54 | 30 | 79 | 78 | 6 | 24
48 | 48 | 42 | 73 | 73 | 6 | 12
48 | 48 | 36 | 73 | 73 | 6 | 18
48 | 48 | 30 | 73 | 73 | 6 | 24
42 | 42 | 36 | 67 | 67 | 6 | 12
42 | 42 | 30 | 67 | 67 | 6 | 18
36 | 36 | 30 | 55 | 55 | 6 | 12

ALL MEASUREMENTS ARE IN INCHES.

Note: When B is smaller than A, C shall be filled with concrete prior to casting. If branch sewer is less than 36" DIA., angle shall be 45 degrees.
NOTE: Elevation BI > Elevation D

NOTE: For design only, use 12" drop pipe for the following depths of DWF:

- 6" DWF-24" lateral
- 7" DWF-36" lateral
- 8" DWF-24" lateral

For trench backfill, use FA-6 sand, crushed concrete sand, or stone sand.

For granular embedment, use CA-11, crushed gravel, crushed stone, or crushed concrete.
FOR CONCRETE PIPE SEwers
24' DIAM. TO 48' DIAM.

NOTE: FOR DESIGN ONLY - USE 12" DROP PIPE FOR THE FOLLOWING DEPTHS OF DWF:
6" DWF-42" LATERAL
7" DWF-36" LATERAL
8" DWF-24" LATERAL

FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND OR STONE SAND,
FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

NOTE: FOR DESIGN ONLY - USE 12" DROP PIPE FOR THE FOLLOWING DEPTHS OF DWF:
6" DWF-42" LATERAL
7" DWF-36" LATERAL
8" DWF-24" LATERAL

FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND OR STONE SAND,
FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.
### Standard Drainage Structures for Public Streets

**Catch Basin - 4" Dia.**

- **Type:** B-150
- **Cuts and Outer:** 3" Minimum Typical
- **Height:** 24" (Half Trap)
- **Frame & Lid:** *

**Catch Basin - 3" Dia.**

- **Type:** B-150
- **Cuts and Outer:** 3" Minimum Typical
- **Height:** 24" (Half Trap)
- **Frame & Lid:** *

**Standard Inlet - 2" Dia.**

- **Height:** 24" (Half Trap)
- **Frame & Lid:** *

- **Vortex Restrictor**

**Standard Drainage Structures for Public Alleys**

- **Green Alley Open Bottom Catch Basin**
  - Dimensions: 4" Dia.
  - **Type:** B-150
  - **Cuts and Outer:** 3" Minimum Typical
  - **Height:** 24" (Half Trap)

**Restrictor Notes:**

- The front plan and restrictor program must be monitored with any roadway improvements.
- The design of any roadway improvement must consider limiting the number of catch basins to the extent practical.
- The number of existing structures should not be increased.

**Perforated Pipe Installation:**

- Perforated pipes must be installed in catch basins in close proximity to public areas, bus stops, or emergency access. The public must approve the reinstallation or removal of any restricted precast concrete rings.

- The DWM's rain blocker restrictor program must be reviewed.

**Catch Basin - 4" Dia.:**

- **Note:**
  - For trench backfill, use 4"-6" sand, crushed concrete sand, or stone sand.

**Catch Basin - 3" Dia.:**

- **Note:**
  - For trench backfill, use 4"-6" sand, crushed concrete sand, or stone sand.

**Catch Basin - 2" Dia.:**

- **Note:**
  - For trench backfill, use 4"-6" sand, crushed concrete sand, or stone sand.

### Jackson Park Mobility Improvements

- **Contractor:**
  - **Purpose:**
    - **Date:**
    - **Location:**
    - **Type:**

- **City of Chicago:**
  - **Purpose:**
    - **Date:**
    - **Location:**
    - **Type:**

- **CDOT:**
  - **Purpose:**
    - **Date:**
    - **Location:**
    - **Type:**

---

**Revision:**

- **Date:**
- **Check:**
- **Drawn:**
- **Designed:**
- **Reviewed:**
- **Check:**
- **Drawn:**
- **Designed:**
- **Reviewed:**

**Plot Scale:**

- **File Name:**
- **Dwg:**
- **City:**
- **Project:**
- **Sheet:**
- **Details:**
- **Notes:**

**General Notes:**

- Catch basin to catch basin connections are allowed in private sites & alleys, only the downstream catch basin is required to be a half-trap.
- If B < 4 feet, then use a ductile iron pipe half trap and flat top half catch basin as necessary.
- Inlets and 3" diameter catch basins are to be used only with prior approval of DWM field inspector.
NOTES:
1. THE RESTRICTOR MUST BE INSTALLED IN CATCH BASIN OR MANHOLE WITH MINIMUM WIDTH OF OD+8" STONE, OR CRUSHED CONCRETE.
2. THE RESTRICTOR CAN BE OBTAINED FROM DWM CENTRAL BULLETIN J-7-6 PURCHASED.
3. FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED AGGREGATE FILL, CRUSHED STONE, OR CRUSHED CONCRETE.
4. FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CONCRETE SAND, OR STONE SAND.
5. PRECAST REINFORCED PLATE AND FASTENERS MUST BE FABRICATED.
6. HALF TRAP CENTERED ON HALF TRAP ELEVATION A.
7. INFLOW PIPE OR UNDERDRAIN MUST BE AT OR ABOVE THE HALF-TRAP ELEVATION A.
8. VORTEX RESTRICTOR CATCH BASIN
9. ADJUSTMENT RING
10. INFLOW PIPE
11. PRECAST CONCRETE RUNOFF
12. STANDARD CATCH BASIN
13. DWM STANDARD DRAWING
14. OVERLAPPING ON TOP FULLY WRAPPED, AND WITH NON-DEGRADING GEOTEXTILE FABRIC.
15. 40Z MIN, MINIMUM WIDTH OF OD+8".
16. PULL ON RESTRICTOR TO VERIFY THAT A TIGHT SEAL IS MADE.
17. INSERT THE RESTRICTOR WITH THE OPENING DOWN.
18. NOTE: THE INVERT ON INFLOW PIPE.
NOTES:

1. VERTICAL SPACING = 16" O.C. ON VERTICAL WALL ONLY.

2. FIRST LADDER RING SHOULDED BE A MAXIMUM OF 31" BELOW TOP OF MANHOLE FRAME.

3. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

4. ALL STEPS SHALL BE VERTICALLY ALIGNED IN A STRAIGHT LINE.

5. NO STEPS LOCATED INSIDE MANHOLE CHIMNEY.

6. MINIMUM CONCRETE STRENGTH MUST BE 3000 PSI.

7. HOLES- PREFORMED/DRILLED.

8. HOLES MUST BE PARALLEL.

9. HOLES MUST BE 10" CENTERED, 1" DIAMETER.

10. MINIMUM DEPTH- 3 1/2" TO 3 3/4".

11. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

12. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

13. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

14. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

15. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

16. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

17. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

18. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

19. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

20. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

21. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

22. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

23. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

24. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

25. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

26. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

27. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

28. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

29. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

30. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.

31. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1500LBS. WHEN INSTALLED.
ABANDON CATCH BASIN

CLSM/FLOWABLE FILL
FILL WITH SAND OR
SEAL ALL OPENINGS
WITH BRICK AND
MORTAR

ABANDON MANHOLES

CLSM/FLOWABLE FILL
FILL WITH SAND OR
SEAL ALL OPENINGS
WITH BRICK
AND MORTAR IF PIPE TO BE ABANDONED
SEAL ALL OPENINGS WITH BRICK
OR SEALER
USE MORTAR
IF PIPE IS NOT MAINTAIN FLOW
REINFORCED FLAT TOP SLAB (SEE NOTE BELOW)
MODIFIED WITH NO ACCESS HOLE
SEE IDOT STD. 602601-03 OR CURRENT
REINFORCED FLAT TOP SLAB.
TOP SLAB
REINFORCED FLAT
TOP SLAB
REINFORCED FLAT
TOP SLAB
4" TOPSOIL
TRENCH BACKFILL
REINFORCED FLAT TOP SLAB
USE MORTAR OR SEALER

IN PAVEMENT AREA

IN LANDSCAPE AREA

NOTE
REINFORCED FLAT TOP SLAB
SEE IDOT STD. 602601-03 OR CURRENT
MODIFIED WITH NO ACCESS HOLE

IN PAVEMENT AREA

IN LANDSCAPE AREA

4" TOPSOIL
TRENCH BACKFILL
REINFORCED FLAT TOP SLAB
USE MORTAR OR SEALER

NOTE
REINFORCED FLAT TOP SLAB
SEE IDOT STD. 602601-03 OR CURRENT
MODIFIED WITH NO ACCESS HOLE
CONCRETE CYLINDER PIPE DEFLECTION CRITERIA:

- Contractor to perform calculations in accordance with the『 American Society of Civil Engineers』 guidelines on the『 Permanent and Temporary Water Main Support』.

- Contractor is responsible for any settlement, which may occur during construction.

**SUPPORT OF EXISTING WATER MAIN CAST IRON, DUCTILE IRON OR CONCRETE CYLINDER PIPE**

**TABLE 1**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>SHEET NO.</th>
<th>ELEV. ITEM NO.</th>
<th>LOCAL OF DEFECT</th>
<th>DIMENSION (IN)</th>
<th>NUMBER OF SPANS</th>
<th>DIMENSION OF BEAM (IN)</th>
<th>BEAM SIZE</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
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<td>13'-0&quot;</td>
<td>3</td>
<td>40 &amp; 48&quot;</td>
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<td>4</td>
<td>12&quot;</td>
<td>W6x10</td>
<td>W6x10</td>
</tr>
</tbody>
</table>

**TYPE 1 SUPPORT - A**

- Designed for use with Type 1 water main on structure.
- Consists of a concrete cylinder pipe with cast iron or ductile iron support beams.
- Provide temporary support until permanent support is installed.

**TYPE 2 SUPPORT - B**

- Designed for use with Type 2 water main on structure.
- Consists of a concrete cylinder pipe with cast iron or ductile iron support beams.
- Provide temporary support until permanent support is installed.

**NOTES**

- Contractor to perform calculations in accordance with the『 American Society of Civil Engineers』 guidelines on the『 Permanent and Temporary Water Main Support』.
- Contractor is responsible for any settlement, which may occur during construction.
- Provide temporary support until permanent support is installed.
GENERAL NOTES

1. PRIOR TO SUBMITTING BID, THE CONTRACTOR MUST VISIT THE PROJECT SITE AND THROUGHLY EVALUATE EXISTING CONDITIONS AND DEMEANOR HOW THEY AFFECT WORK. THE CONTRACTOR MUST INCLUDE IN BID ANY ALTERATIONS, RELOCATING, REINFORCING, ETC. OF TYPICAL AND EQUIPMENT REQUIRED FOR INSTALLATION OF WORK.

2. THE CONTRACTOR MUST SUBMIT COMPLETE, COORDINATED SHOP DRAWINGS INCLUDING ALL WORK AND MATERIALS, PIPE LOCATIONS AND ELEVATIONS, CONDUCT THROUGH SLABS AND WALLS, ETC. WHICH MUST BE APPROVED BY THE ENGINEER, PRIOR TO STARTING WORK.

3. ALL WORK AND MATERIALS MUST BE IN ACCORDANCE WITH SPECIFICATIONS. ALL WORK MUST MEET ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES. CONTRACTOR MUST SUBMIT ALL WORK AND MATERIALS, WHICH MUST BE APPROVED BY THE ENGINEER, PRIOR TO INSTALLATION.

4. PROJECT STRUCTURE FROM ANY DAMAGE WHICH MAY OCCUR DURING INSTALLATION OF MECHANICAL WORK. ANY DAMAGE TO FACILITIES MUST BE REPAIRED, REPLACED OR RESTORED TO THE ORIGINAL CONDITION AND SATISFACTION OF THE ENGINEER.

5. CUTTING AND DRYING OF SLEEVES MUST BE COORDINATED THROUGHLY, PUMP SYSTEM APPROVAL OF THE ENGINEER.

6. PROVIDE DUCTILE IRON SLEEVES FOR PIPING THROUGH WALLS.

7. THE GENERAL RUN AND LOCATION OF THE PIPES AND EQUIPMENT IS SHOWN ON THE DRAWING. HOWEVER, IT MUST BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SIZES, DIMENSIONS, CLEARANCES, ETC. IF A DIFFERENT ARRANGEMENT THAN THAT SHOWN IS PROPOSED, IT MUST BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND INSTALL SUCH WORK AS MAY BE REQUISITE WITHOUT ADDITIONAL CHARGE TO THE OWNER.

8. CHANGES ARE REQUIRED TO SHOWN THE PROPER SIZE AND GENERAL LOCATION OF THE EQUIPMENT, PIPING, ETC. CONTRACTOR MUST VERIFY ALL CHANGES AND FIELD CONNECTIONS.

9. CONTRACTOR TO COORDINATE WITH ALL TRADES BEFORE INSTALLING ANY PIPING, EQUIPMENT, ETC.

10. THE CONTRACTOR MUST VERIFY CLEARANCES AND STRUCTURAL CONDITIONS PRIOR TO PUMP INSTALLATION AND ROUTING.
GENERAL NOTES

DESIGN CRITERIA

1. STRUCTURE DESIGNED IN ACCORDANCE WITH THE CITY OF CHICAGO BUILDING CODE.

2. SUPERIMPOSED SERVICE LOADS
   - ROOF LIVE LOAD: ___________ 25 PSF
   - ROOF LIVE LOAD: ___________ 50 PSF

3. ALL STRUCTURAL CAST-IN-PLACE CONCRETE MUST BE OF THE TYPES AND HAVING MINIMUM F'c = 4,000 PSI at 28 DAYS. ALL PRE-CAST CONCRETE MUST BE OF THE TYPES AND HAVING MINIMUM F'c = 5,000 PSI AT 28 DAYS.

4. ALL CAST-IN-PLACE CONCRETE MUST BE OF THE TYPES AND HAVING MINIMUM F'c = 4,000 PSI AT 28 DAYS. CONCRETE WORK MUST F'c = 4,000 PSI AT 28 DAYS.

5. ALL CONSTRUCTION JOINTS MUST BE SHOWN ON THE DRAWINGS OR AS APPROVED BY THE EXAMINER. JOINTS MUST BE PROVIDED AT ALL CONSTRUCTION JOINTS EXCEPT WHERE NOTED. JOINTS MUST BE SHOWN ON THE DRAWINGS, PROVIDE JOINTS AT ALL JOINTS AND WHERE MILL WELDS OR MILL WELDS OF STRUCTURAL STEEL WHERE IT IS NOT GALVANIZED.

6. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL MUST COMPLY WITH THE STANDARDS OF ASTM A615, Fy = 60 KSI. ALL CONCRETE REINFORCEMENT MUST BE DETAILED, LABELED, SUPPORTED, SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE ACI 318 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 318.

7. ALL REINFORCING BARS MUST BE EPOXY COATED NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, Fy = 60 KSI. ALL CONCRETE REINFORCEMENT MUST BE DETAIL FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE ACI 318 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 318.

8. ALL CONCRETE REINFORCEMENT MUST BE DETAILED, LABELED, SUPPORTED, SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE ACI 318 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 318.

9. ALL REINFORCING BARS MUST BE EPOXY COATED NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, Fy = 60 KSI. ALL CONCRETE REINFORCEMENT MUST BE DETAIL FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE ACI 318 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 318.

10. ALL PRE-CAST CONCRETE MUST BE OF THE TYPES AND HAVING MINIMUM F'c = 4,000 PSI AT 28 DAYS. ALL PRE-CAST CONCRETE MUST BE OF THE TYPES AND HAVING MINIMUM F'c = 5,000 PSI AT 28 DAYS.

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1. The electrical work is to be executed in accordance with the applicable national electrical codes and standards. Any modifications and/or additional electrical additions to floor plans requiring any review approval by the electrical authorities must be the responsibility of the contractor and must be approved in writing by the owner.

2. The contractor must furnish and install all secondary service conduits in conduit. Connection to provide conduit supports for all conduits, all elements must be heavy wall steel.

3. All materials and equipment must be listed and/or labeled by all UL, CSA or another recognized testing lab.

4. All conduits, bends, and fittings of materials, steel or iron work, including the facility, must be done in the conduit in order that no work may be proper. All conduits shall be covered with a conduit or other approved method of protection.

5. All conduits, bends, and fittings of materials, steel or iron work, including the facility, must be done in the conduit in order that no work may be proper. All conduits shall be covered with a conduit or other approved method of protection.

6. Verify clearances for all electrical work before proceeding with construction. Construction of underground space shall be in accordance with the plans, service conduit, and installation of electrical equipment.

7. Site plans indicate the general routing of underground conduit systems.

8. All power conduit along wall and ceiling to be exposed.
PUMP STATION (WET WELL)

NOTES:
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.
2. ALL ELEVATIONS ARE IN FEET.
3. FOR LEGEND, ABBREVIATION AND GENERAL NOTES SEE SHEET PS-1.
4. FOR SCHEMATIC, SEQUENCE OF OPERATION AND SCHEDULES AND MECHANICAL NOTES SEE SHEET PS-5.
5. DETAILS SHOWN ARE FOR GENERAL REFERENCE ONLY. FOR ACTUAL DETAILS REFER TO APPROVED VENDOR INSTALLATION INSTRUCTIONS.
6. FOR EXACT LOCATION OF PUMP STATION & DISCHARGE PIT SEE DRAINAGE PLAN SHEETS AND PUMP STATION SITE PLAN.
7. ADJUST THE LEVELS IN FIELD TO CLOSEST SENSOR NUMBER ON SELECTED MODE.
8. SEE DETAIL 4 ON SHEET PS-6.

SECTION 2

DISCHARGE PIT

MECHANICAL PLAN

SECTION 9

ANCHOR MOUNTING BRACKET

DUAL RAIL Upper Brace

DUAL RAIL Intermediate Brace

ARMOR BULFET (FOR REMOVEABLE CRANE WALL SOCKET)

STEEL HOOK

STEEL BRACKET

PROBE CLEANER

STAINLESS

FLEXIBLE CABLE TIES

PROBE CABLE

APPROVED SEAL

POWER CABLE HOLDER

SEE SHEET 2

TYP. FOR 3

3/4" ANCHOR BOLT

STAINLESS STEEL (4X)

BOLTS (4X)

3/4" ANCHOR

STEEL HOOK

STAINLESS

6" DIA.

BOLTS (4X)

3/4" ANCHOR

STEEL HOOK

STAINLESS

6" DIA.

BOLTS (4X)

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STEEL HOOK

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6" DIA.

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3/4" ANCHOR

STEEL HOOK

STAINLESS

6" DIA.

BOLTS (4X)

3/4" ANCHOR

STEEL HOOK

STAINLESS
**PUMP SCHEDULE**

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<th>Tag</th>
<th>Service</th>
<th>Type</th>
<th>CFM</th>
<th>HP</th>
<th>FTP</th>
<th>Material</th>
<th>Size</th>
<th>Remarks</th>
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<td>Storm</td>
<td>Submersible</td>
<td>124</td>
<td>4.5</td>
<td>1705</td>
<td>6&quot;</td>
<td>3.9</td>
<td>304 Stainless Steel</td>
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<tr>
<td>ST</td>
<td>Storm</td>
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<td>3.9</td>
<td>304 Stainless Steel</td>
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* Provide dual rail system with dual rail guide support brackets, support for base of pumps and flush valve system and also provide triplex pump controller with multiple stage level control.

**VENTILATION SCHEDULE**

<table>
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<tr>
<th>Room Name</th>
<th>Room Purpose</th>
<th>Room Size</th>
<th>Natural Light &amp; Ventilation</th>
<th>Mechanical Extraction</th>
<th>Remarks</th>
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<td>0</td>
<td>0.32</td>
<td>0</td>
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<tr>
<td>Reinforcement Pit</td>
<td>Exit</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3.86</td>
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**ACCESS HATCH / MANHOLE COVER SIZES & TYPES**

1. Manhole covers must be bolted to frames with stainless steel cap screws.
2. Solid covers must be provided with ring handles.
3. Opening sizes & cover sizes are in inches.
4. Verify in field manhole cover sizes as per the model selected, matching the corresponding clear openings.
5. For specifications see structural work section.

**MECHANICAL NOTES**

1. Install pumps as per locations shown on drawings with all accessories.
2. Provide and install dual rails on pumps as shown on drawing, material for dual rail must be 304 Stainless Steel.
3. Install dual rail upper support guide bar brackets as shown on drawing PS-5.
4. Install dual rail intermediate support guide bar brackets at every 10' as shown on drawing PS-5.
5. Install flush valve system on all pumps, as per manufacturer's instruction.
6. Install high water warning alarm through auto-dialer system to either dept or OCS and sanitation's radio or 311 as directed by CFD, for controller schematic diagram see drawing PS-23.
7. The probe liquid level control system is shown on drawing PS-5 as per manufacturer's instruction.

**SEQUENCE OF OPERATIONS:**

1. At any time any one pump or two pumps will be working depending upon the level of water. The third pump will be standby.
2. The number of circulating pumps increases the pumping capacity of the lead pump. Subsequent pumps must automatically start to handle the increased flow. As the flow decreases, the pumps must cut-off at the elevations as shown on the plans.

**LEVEL 1:** Pump will stop. Level 2, 3, and 4, in first pump will start. Level 3 and second pumps will start and run at level 2. Level 4 alarm on.

**LEVEL 2:** First pump will start. Level 3 and second pumps will start and run at level 2. Level 4 alarm on.

**LEVEL 3:** Second pumps will start and will stop at level 2. Level 4 alarm on.

**LEVEL 4:** Alarm on.

**OPERATIONAL SEQUENCE AS FOLLOWS (SEE DWG. PS-5)**

- **LEVEL 1:** Pump will stop.
- **LEVEL 2:** First pump will start.
- **LEVEL 3:** Second pumps will start and will stop at level 2.
- **LEVEL 4:** Alarm on.
NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE STATED.
2. ALL ELEVATIONS ARE IN FEET.
3. FOR GENERAL NOTES SEE SHEET PS-2.
4. FOR REINFORCEMENT DETAILS SEE SHEET PS-4.
5. FOR LOCATION OF PUMP STATION, DISCHARGE PIT, INLET AND OUTLET PIPES SEE PUMP STATION SITE PLAN(SHEET PS-1) AND DRAINAGE FLOW SHEETS.
6. FOR EACH LOCATION AND ELEVATION OF PIPE SLEEVES, SEE CORRESPONDING PUMP STATION MECHANICAL AND STRUCTURAL SHEETS.
7. CONTRACTOR TO PROVIDE TEMPORARY EARTH SUPPORT SHEET PILING, DEMLING, ETC. FOR CONSTRUCTION OF PUMP STATION AND DISCHARGE PIT.
8. FOR PROVISION OF HOLES IN CONCRETE FOR ELECTRICAL CONDUITS AND OTHER ELECTRICAL WORK SEE PS-5.
9. ACCESS WITHIN 6" OF CONCRETE TO BE INSTALLED IN THE PRESS CASK PUMP PIT AT THE TIME OF PRECAST.
10. FOR EACH LOCATION OF COMPLETE PAD SEE SHEET PS-6.
11. FOR COMPLETE PAD REQUIRE CEMENT MIX AND REINFORCEMENT DETAILS SEE SHEET PS-22.
NOTE:
STAINLESS STEEL CABLE HOLDER PROVIDED BY MECHANICAL CONTRACTOR

GROUNDING NOTES:
1. THE FOLLOWING NOTES, GROUNDING METHODS AND DETAILS ARE SPECIFIED IN THE CODES AND STANDARDS. THE CONTRACTOR MUST FOLLOW MANUFACTURER'S STANDARD DETAILS AND SPECIFICATIONS.
2. GROUND RODS MUST BE COPPERWELD 3" O.D. BY 10' LONG.
3. THE MAIN GROUNDING CONDUCTOR MUST BE #2/0 STRANDED BARE COPPER WIRE.
4. ALL BENDS IN GROUNDING CONDUCTORS MUST HAVE 180° MINIMUM RADIUS.
5. GROUNDING CONNECTIONS MUST BE MADE AS FOLLOWS TO FORM A CONTINUOUS GROUNDING SYSTEM:
   a. CADWELD OR THERMOWELD ALL CABLE TO CABLE.
   b. CADWELD OR THERMOWELD ALL CABLE TO GROUND ROD AS SHOWN ON DETAILS.
6. EXCEPT IN PIPE ALL EXPOSED GROUNDING CONDUCTORS TO PROTECT AGAINST PHYSICAL DAMAGE.
7. WHEREVER CONDUIT IS USED TO PROTECT GROUND CABLE BOND THE CABLE TO CONDUIT AT BOTH ENDS TO PROVIDE GROUND CONTINUITY.
8. GROUND RODS MUST NOT BE DRIVEN AT AN ANGLE OF MORE THAN 30° TO THE VERTICAL.
9. GROUNDING ELECTRODES MUST NOT BE PLACED IN ROCK, GRAVEL OR ROCKY TYPE SOIL.
10. CHEMICAL TREATMENT OF SOIL TO LOWER GROUND RESISTANCE IS NOT AN ACCEPTABLE METHOD TO LOWER THE GROUNDING IMPEDANCE.
11. GROUNDING SYSTEM MUST BE TESTED USING THE 3-ELECTRODE AC "FALL OF POTENTIAL" METHOD. MAXIMUM GROUND IMPEDANCE MUST BE 5 OHMS. TESTED AND ACCEPTED BY THE CONTRACTOR BEFORE IT IS RENDERED INACCESSIBLE BY BACK FILLING, PAVING, CONCRETE SLABS, ETC. TEST RESULTS MUST BE SUBMITTED TO ENGINEER FOR APPROVAL.
12. GROUNDING CONNECTIONS MUST BE MADE AS FOLLOWS TO FORM A CONTINUOUS GROUNDING SYSTEM:
   a. Cadweld or thermoweld all cable to cable.
   b. Cadweld or thermoweld all cable to ground rod as shown on details.
   c. Grounding conductor must be connected directly to the ground bus if the panel board is provided with an equipment ground bus.
   d. The ground conductor must be connected separately to the ground bus and a bonding jumper size per NEC 250-95 provided to the panel board enclosure.
13. PROVIDE A BONDING JUMPER SIZE PER NEC 250-95 WHEN THE EQUIPMENT GROUNDING CONDUCTOR IS INSTALLED AS A SEPARATE CONDUCTOR TO EITHER THE PANEL BOARD ENCLOSURE OR A PANEL BOARD EQUIPMENT GROUND BUS.
14. GROUNDING ELECTRODES MUST BE INSTALLED IN ONE CONTINUOUS LENGTH WITHOUT SPLICED OR JOINTS.
1. FOR NOTES, SYMBOLS AND LEGEND SEE SHEET PS-3.
2. ALL CONTROL WIRES MUST BE #14 AWG AND OTHER CONDUCTORS MAY BE AS SPECIFIED.
3. THE CONTRACTOR MUST FURNISH ALL THE ELECTRICAL EQUIPMENT AS SPECIFIED AND INSTALL AS PER DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS.
4. MECHANICAL CONTRACTOR MUST FURNISH PUMP STATION CONTROL PANEL, MOTOR STARTERS, CONTROL AND INTERNAL WIREFALLING REQUIRED FOR THE PUMP OPERATION AS PER CPD STANDARDS.
5. ELECTRICAL CONTRACTOR TO PROVIDE #14 PVC CONDUIT SCHEDULE 80 FROM CONTROL PANEL ENCLOSURE TO PULL BOX IN THE PUMPING STATION.
6. THE CONTRACTOR MUST FURNISH ALL THE ELECTRICAL EQUIPMENT AS SPECIFIED AND INSTALL AS PER DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS.
7. CONNECT THE SURGE ARRESTER GROUND TO THE PUMP STATION CONTROL PANEL BUS AS SHOWN.
8. MOTOR STARTERS MUST BE #12 AWG WIRE AND NON-REVERSING TYPE PROVIDED BY MECHANICAL CONTRACTOR AS PART OF THE PUMP CONTROLLER FOR SCHEMATIC DIAGRAM SHOWN INSIDE ARE INTEGRATED BY MECHANICAL CONTRACTOR, FOR FUNCTIONALLY OPERATING SYSTEM.
10. THE CONTRACTOR MUST PROVIDE 120/208V POWER PANELS AND BOX IN THE PUMPING STATION.
11. MECHANICAL CONTRACTOR MUST FURNISH PUMP STATION CONTROL PANEL, MOTOR STARTERS, CONTROL AND INTERNAL WIREFALLING REQUIRED FOR THE PUMP OPERATION AS PER CPD STANDARDS.
NOTES:

1. All dimensions are in inches unless otherwise stated.
2. All elevations are in feet.
3. For legend, abbreviation and general notes see Sheet PS-1.
4. For schematic, sequence of operation and schedules and mechanical notes, see Sheet PS-12.
5. Details shown are for general reference only. For actual details refer to approved vendor's installation instructions.
6. For exact location of pump station & discharge pit see drainage plan sheets and pump station site plan.
7. Adjust the levels in field to closest sensor number on selected phase.
8. See Sheet 4 on Sheet PS-12.

1. 11'-11/4" EL. -12.14
2. 2ND PUMP 'ON' EL. -6.00
3. 1ST PUMP 'ON' EL. -7.50
4. ALARM 'ON' EL. -2.00
5. PIPE 24" DIA.
6. PIPE 54" DIA.
7. PIPE 24 1/4" DIA.
8. PIPE 4 1/4" DIA.
9. PIPE 4 1/4" DIA.
10. PIPE 4 1/4" DIA.

Check Valve

Bolts (4X) 3/4" Anchor

Flange

Sheet Metal

Stainless Steel

Stainless Steel

Aluminum Plate

Steel Plate

Power Cable Holder

Power Cable Holder

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**Mechanical Notes:**

1. Install pumps as shown on drawings and all necessary access hatches.
2. Install dual rail guide support brackets on pumps as shown on drawings and all necessary access hatches.
3. Install dual rail guide support brackets on pumps as shown on drawings and all necessary access hatches.
4. Install dual rail intermediate support guide bar brackets at every 10' as shown on drawings and all necessary access hatches.
5. Install flush valve system on all pumps, as per manufacturer's instruction.
6. Install high water warning alarms through auto-energized system to either pump station, street, and sanitary tanks or as required by code, as per manufacturer's instruction.
7. Install automatic reset control system as shown on drawings and all necessary access hatches.
8. Verify in field manhole cover sizes as per model selected, matching the corresponding clear openings.
9. Solid covers must be provided with ring handles.
10. Stainless steel.
11. Provide and install dual rails on pumps as shown on drawings and all necessary access hatches.
12. Verify in field manhole cover sizes as per model selected, matching the corresponding clear openings.
13. Solid covers must be provided with ring handles.
15. Provide and install dual rails on pumps as shown on drawings and all necessary access hatches.
16. Verify in field manhole cover sizes as per model selected, matching the corresponding clear openings.
17. Solid covers must be provided with ring handles.
19. Provide and install dual rails on pumps as shown on drawings and all necessary access hatches.
20. Verify in field manhole cover sizes as per model selected, matching the corresponding clear openings.
21. Solid covers must be provided with ring handles.
22. Stainless steel.
PRECAST PUMP STATION, HAYES/LSD

NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE STATED.
2. ALL ELEVATIONS ARE IN FEET.
3. FOR GENERAL NOTES SEE SHEET PS-2.
4. FOR REINFORCEMENT DETAILS SEE SHEET PS-22.
5. FOR LOCATION OF PUMP STATION, DISCHARGE PIT, INLET AND OUTLET PIPES SEE PUMP STATION SITE PLAN (PS-11-1) AND DRAINAGE PLAN SHEETS.
6. FOR EXACT LOCATION AND ELEVATION OF PIPE SLEEVES, SEE CORRESPONDING PUMP STATION MECHANICAL AND STRUCTURAL SHEETS.
7. CONTRACTOR TO PROVIDE TEMPORARY EARTH SUPPORT SHEET PILING, SHEETING, EGLA, FOR CONSTRUCTION OF PUMP STATION AND DISCHARGE PIT.
8. FOR PROVISION OF HOLES IN CONCRETE FOR ELECTRICAL CONDUITS AND OTHER ELECTRICAL WORK SEE PS-24.
9. ACCESS HATCH 34" X 68" TO BE INSTALLED IN THE PRE-CAST ROOF.
10. FOR LOCATION OF COMPLETE PAD SEE SHEET PS-20.

PRECAST CONCRETE SHEET PILING AND FORMWORK SEE DETAIL 13.

PRECAST PUMP STATION, HAYES/LSD

NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE STATED.
2. ALL ELEVATIONS ARE IN FEET.
3. FOR GENERAL NOTES SEE SHEET PS-2.
4. FOR REINFORCEMENT DETAILS SEE SHEET PS-22.
5. FOR LOCATION OF PUMP STATION, DISCHARGE PIT, INLET AND OUTLET PIPES SEE PUMP STATION SITE PLAN (PS-11-1) AND DRAINAGE PLAN SHEETS.
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10. FOR LOCATION OF COMPLETE PAD SEE SHEET PS-20.

PRECAST PUMP STATION, HAYES/LSD

NOTES:

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8. FOR PROVISION OF HOLES IN CONCRETE FOR ELECTRICAL CONDUITS AND OTHER ELECTRICAL WORK SEE PS-24.
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PRECAST PUMP STATION, HAYES/LSD

NOTES:

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7. CONTRACTOR TO PROVIDE TEMPORARY EARTH SUPPORT SHEET PILING, SHEETING, EGLA, FOR CONSTRUCTION OF PUMP STATION AND DISCHARGE PIT.
8. FOR PROVISION OF HOLES IN CONCRETE FOR ELECTRICAL CONDUITS AND OTHER ELECTRICAL WORK SEE PS-24.
9. ACCESS HATCH 34" X 68" TO BE INSTALLED IN THE PRE-CAST ROOF.
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PRECAST PUMP STATION, HAYES/LSD

NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE STATED.
2. ALL ELEVATIONS ARE IN FEET.
3. FOR GENERAL NOTES SEE SHEET PS-2.
4. FOR REINFORCEMENT DETAILS SEE SHEET PS-22.
5. FOR LOCATION OF PUMP STATION, DISCHARGE PIT, INLET AND OUTLET PIPES SEE PUMP STATION SITE PLAN (PS-11-1) AND DRAINAGE PLAN SHEETS.
6. FOR EXACT LOCATION AND ELEVATION OF PIPE SLEEVES, SEE CORRESPONDING PUMP STATION MECHANICAL AND STRUCTURAL SHEETS.
7. CONTRACTOR TO PROVIDE TEMPORARY EARTH SUPPORT SHEET PILING, SHEETING, EGLA, FOR CONSTRUCTION OF PUMP STATION AND DISCHARGE PIT.
8. FOR PROVISION OF HOLES IN CONCRETE FOR ELECTRICAL CONDUITS AND OTHER ELECTRICAL WORK SEE PS-24.
NO. 3 1/2" CONDUIT AND CABLE UP TO CPD MANHOLE FOR CABLE SIZE SEE ELECTRICAL PLANS

20A/1P 20A/1P 20A/1P SPARE 60A/3P

5 HP 5 HP 5 HP

1. FOR NOTES, SYMBOLS AND LEGEND SEE SHEET PS-3.
2. ALL CONTROL WIRES MUST BE #14 AWG AND OTHER CONDUCTORS MAY BE AS SPECIFIED.
3. THE CONTRACTOR MUST FURNISH ALL THE ELECTRICAL EQUIPMENT AS SPECIFIED AND INSTALL AS PER DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS.
4. MECHANICAL CONTRACTOR MUST FURNISH PUMP STATION CONTROL PANEL, MOTOR STARTERS, CONTROL AND INTERNAL WIRING REQUIRED FOR THE PUMP OPERATION AS PER CPD STANDARDS.
5. ELECTRICAL CONTRACTOR TO PROVIDE 120/208V PVC CONDUIT SCHEDULE 80 FROM CONTROL PANEL ENCLOSURE TO PULL BOX IN THE PUMPING STATION.
6. THE CONTRACTOR MUST PROVIDE DEGREED POWER PANELS AND INSTALL THE TRANSCLOSURE AFTER THE DIFFERENT COMPONENTS SHOWN INSIDE ARE INTEGRATED BY MECHANICAL CONTRACTOR FOR A FUNCTIONALLY OPERATING SYSTEM.
7. CONNECT THE SURGE ARRESTER GROUND TO THE PUMP STATION CONTROL PANEL BUS AS SHOWN.
8. MOTOR STARTERS MUST BE NEMA SIZE '2' FULL VOLTAGE NON-REVERSING TYPE PROVIDED BY MECHANICAL CONTRACTOR AS PART OF THE PUMP CONTROLLER, FOR SCHEMATIC DIAGRAM SEE SHEET PS-23.
NOTES:
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.
2. ALL ELEVATIONS ARE IN FEET.
3. FOR LEGEND, ABBREVIATION AND GENERAL NOTES SEE SHEET PS-11.
4. FOR SCHEDULES, SEQUENCE OF OPERATION AND SCHEDULES AND MECHANICAL NOTES SEE SHEET PS-18.
5. DETAILS SHOWN ARE FOR GENERAL REFERENCE ONLY. FOR ACTUAL DETAILS REFER TO APPROVED VENDORS INSTALLATION INSTRUCTIONS.
6. FOR EXACT LOCATION OF PUMP STATION & DISCHARGE PIT SEE DRAINAGE PLAN SHEETS PUMP STATION SITE PLAN.
7. ADJUST THE LEVELS IN FIELD TO CLOSEST SENSOR NUMBER ON SELECTED MODEL.
8. SEE DETAIL 4 ON SHEET PS-18.
**PUMP SCHEDULE**

<table>
<thead>
<tr>
<th>No.</th>
<th>Service</th>
<th>Type</th>
<th>CFS</th>
<th>Head</th>
<th>RPM</th>
<th>VOLT</th>
<th>MATERIAL</th>
<th>Code</th>
<th>Style</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Water</td>
<td>Submersible</td>
<td>1.14</td>
<td>1029</td>
<td>1755</td>
<td>230</td>
<td>SS</td>
<td>4</td>
<td>LHS</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Water</td>
<td>Submersible</td>
<td>1.14</td>
<td>1029</td>
<td>1755</td>
<td>230</td>
<td>SS</td>
<td>4</td>
<td>LHS</td>
<td>-</td>
</tr>
</tbody>
</table>

* Provide dual rail system with dual rail guide support brackets, support for base of pumps and flush valve system and also provide triplex pump controller with automatic level control.

**VENTILATION SCHEDULE**

<table>
<thead>
<tr>
<th>Location</th>
<th>Room Name</th>
<th>N.</th>
<th>O.</th>
<th>W.</th>
<th>L.</th>
<th>Type</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| Pump Stn | Wet Well | 0 | 0 | 0.32 | 0 | 0 | Ventilation Time at D.
| Access Wa | Discharge Pit | 0 | 0 | 3.96 | 0 | 0 | Opened Cover |

**MANHOLE COVER NOTES**

1. Manhole covers must be bolted to frames with stainless steel cap screws.
2. Solid covers must be provided with ring handles.
3. Opening sizes & cover sizes are in inches.
4. Verify in field manhole cover sizes as per the model selected, matching the corresponding clear openings.
5. For specifications see structural work section.

**MECHANICAL NOTES**

1. Install pumps as per locations shown on drawings with all accessories.
2. Provide and install dual rails on pumps as shown on drawings. Material for dual rails must be 304 stainless steel.
3. Install dual rail upper support guide bar bracket as shown on Drawing PS-17.
4. Install dual rail intermediate support guide bar bracket at every 10 ft as shown on Drawing PS-17.
5. Install flush valve system on all pumps, as per manufacturer's instruction.
6. Install high water warning alarm through auto-cutter system to either SEPT, of street and sanitary grid or PSI as decided by CPD. For controller schematic diagram see Drawing PS-17.
7. Install 4" vent pipe.
8. For notes, legend, and abbreviations refer Drawing PS-17.
9. All dimensions are in inches unless otherwise noted.
10. Install manhole cover system as shown on Drawing PS-17 as per manufacturer's instruction.

**SEQUENCE OF OPERATIONS**

1. At any time any one pump or two pumps will be working depending upon the level of water. The third pump will be standby.
2. The control function must provide for the operation of the pumps under normal conditions, and must alternate the pumps on each pump down cycle to equalize the pump run times. In the event the down cycle results, the automatic pump controller will automatically start to handle the increased flow. As the flow decreases, the pumps must cut off at the elevations as shown on the plans.
3. The feature on triplex pump controller "Max Pump off Time" will be used to prevent wet well becoming septic. If no pump has activated within the set time when water is below level 2, the dry pit pump will run. Maximum pump off time can be set between 0 min and 12 hours.

**OPERATIONAL SEQUENCE AS FOLLOWS:**

OPERATIONAL SEQUENCE AS FOLLOWS: (SEE DWG.)

LEVEL 4: ALARM ON
LEVEL 3: SECOND PUMPS WILL START AND WILL STOP AT LEVEL 2.
LEVEL 2: FIRST PUMP WILL START
LEVEL 1: PUMP WILL STOP

MIN AND 10 HOURS.

ACTIVATED WITHIN THE SET TIME WHEN WATER IS BELOW LEVEL 2. THE THIRD PUMP WILL BE STANDBY.

THE FEATURE ON TRIPLEX PUMP CONTROLLER "MAX PUMP OFF TIME" WILL BE USED TO PREVENT WET WELL BECOMING SEPTIC. IF NO PUMP HAS ACTIVATED WITHIN THE SET TIME WHEN WATER IS BELOW LEVEL 2, THE DRY PIT PUMP WILL RUN. MAXIMUM PUMP OFF TIME CAN BE SET BETWEEN 0 MIN AND 12 HOURS.

**OPERATIONAL SEQUENCE AS FOLLOWS:**

OPERATIONAL SEQUENCE AS FOLLOWS: (SEE DWG. PS-17)

LEVEL 1 PUMP WILL STOP
LEVEL 2 PUMPS WILL START
LEVEL 3 PUMPS WILL START AND WILL STOP AT LEVEL 2.
LEVEL 4 ALARM ON

**MANHOLE COVER TYPES**

- Heavy Duty
- Aluminum
- Solid
- Air-Exhaust
- Air-Support

**MECHANICAL NOTES**

- Install pumps as per locations shown on drawings with all accessories.
- Provide and install dual rails on pumps as shown on drawings. Material for dual rails must be 304 stainless steel.
- Install dual rail upper support guide bar bracket as shown on Drawing PS-17.
- Install dual rail intermediate support guide bar bracket at every 10 ft as shown on Drawing PS-17.
- Install flush valve system on all pumps, as per manufacturer's instruction.
- Install high water warning alarm through auto-cutter system to either SEPT, of street and sanitary grid or PSI as decided by CPD. For controller schematic diagram see Drawing PS-17.
- Install 4" vent pipe.
- For notes, legend, and abbreviations refer Drawing PS-17.
- All dimensions are in inches unless otherwise noted.
- Install manhole cover system as shown on Drawing PS-17 as per manufacturer's instruction.
NOTE:

STAINLESS STEEL CABLE HOLDER PROVIDED BY MECHANICAL CONTRACTOR

GROUNDING NOTES:
1. THE FOLLOWING NOTES, GROUNDING METHODS AND DETAILS ARE GENERAL IN NATURE, THE CONTRACTOR MUST FOLLOW MANUFACTURES STANDARD DETAIL AND SPECIFICATION.

2. GROUND RODS MUST BE PLACED 3' DEEP BY 10' LONG.
3. THE MAIN GROUNDING CONDUCTOR MUST BE NO SMALLER THAN COPPER WIRE.
4. ALL RODS IN GROUNDING CONDUCTORS MUST MAINTAIN 12' MIN. RADIUS.
5. GROUNDING CONNECTIONS MUST BE MADE AS FOLLOWS TO FORM A CONTINUOUS GROUNDING SYSTEM:
   a. CADWELD OR THERMOWELD ALL CABLE TO CABLE.
   b. CABLE TO GROUND ROD AS SHOWN ON DETAILS.

6. GROUNDING ELECTRODES MUST NOT BE PLACED IN ROCK, GRAVEL OR ROCKY TYPE SOIL.
7. GROUND RODS MUST NOT BE DRIVEN AT AN ANGLE OF MORE THAN 30° TO THE VERTICAL.
8. CABLE TO CONDUIT AT BOTH ENDS TO PROVIDE GROUND CONTINUITY.
9. GROUNDING ELECTRODE CONDUCTORS MUST BE INSTALLED IN ONE CONTINUOUS INACCESSABLE BY BACK FILLING, PAVING, CONCRETE SLABS, ETC. TESTED AND ACCEPTED BY THE CONTRACTOR BEFORE IT IS RENDERED ACCEPTABLE
10. GROUNDING SYSTEM MUST BE TESTED USING THE 3-ELECTRODE AC METHOD TO LOWER THE GROUNDING IMPEDANCE.
11. CHEMICAL TREATMENT OF SOIL TO LOWER GROUND RESISTANCE IS NOT AN ACCEPTABLE METHOD TO LOWER THE GROUNDING IMPEDANCE.
12. GROUNDING METHODS MUST BE FOLLOWING THE 3-ELECTRODE AC METHOD TO LOWER THE GROUNDING IMPEDANCE.
13. GROUNDING ELECTRODES MUST BE CONNECTED DIRECTLY TO THE GROUND BUS IF THE PANEL BOARD IS PROVIDED WITH AN EQUIPMENT GROUND BUS, THE GROUNDING CONNECTIONS MUST BE MADE AS FOLLOWS TO FORM A CONTINUOUS GROUNDING SYSTEM:
   a. CADWELD OR THERMOWELD ALL CABLE TO CABLE.
   b. CABLE TO GROUND ROD AS SHOWN ON DETAILS.
14. GROUNDING ELECTRODE CONNECTIONS MUST BE INSTALLED IN ONE CONTINUOUS GROUNDING CONNECTION TO SUIT THE PROJECT AND THE CONFORM WITH THE MOST CURRENT LOCAL AND NATIONAL ELECTRICAL CODES AND STANDARDS.

GENERAL:

1. ALL MATERIALS REQUIRED TO INSTALL A COMPLETE GROUNDING SYSTEM TO SUIT THE PROJECT AND THE CONFORM WITH THE MOST CURRENT LOCAL AND NATIONAL ELECTRICAL CODES AND STANDARDS.

CONCRETE PAD SEE SHEET 8'-0" FOR EXACT LOCATION OF CONCRETE PAD.

NOTE:

STAINLESS STEEL CABLE HOLDER PROVIDED BY MECHANICAL CONTRACTOR

CABLE HOLDER DETAIL SUPPORTED FROM CONCRETE PAD SEE SHEET 8'-0".

TOTAL SHEETS 9 SHEETS FOR DETAIL AND SPECIFICATION.
NOTES ON SHEET SEE GROUNDING
GROUNDING ROD

PUMP STATION SINGLE LINE DIAGRAM

NOTES:
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.
2. FOR GENERAL NOTES SEE SHEET 1.
3. FOR LOCATION OF PUMP STATIONS AND DISCHARGE PITS SEE DRAWING PLANS AND PUMP STATION SITE PLANS.
4. FOR EXACT LOCATION OF OPENINGS AND ELEVATION OF PIPE SLEEVES REFER TO MECHANICAL SHEETS.
5. PRECAST MANUFACTURER TO VERIFY ACTUAL OPENING FOR PRECAST BARRELS FOR PIPES SHOWN ON STRUCTURAL SHEETS USING PRECAST PIPE O.D. AND FLEXIBLE RUBBER CONNECTORS SPECIFICATIONS.
6. CONTRACTOR TO SUBMIT COMPLETE STRUCTURAL DESIGN CALCULATIONS AND SHOP DRAWINGS OF PUMP STATIONS AND DISCHARGE PITS, SIGNED AND SEALLED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS.
7. CONTRACTOR TO EMBED ELECTRICAL PIPES IN PUMP STATION CONTROL PANEL, CONFORM TO ELECTRICAL SHEETS.
8. INSTALL SLEEVES AT THE LOCATIONS AND OF SIZES AS PER THE LOCATIONS NEEDED BY THE APPROVED CONTROL SYSTEM VENDOR.
NOTES

1. THIS DRAWING IS ISSUED FOR GENERAL GUIDANCE AND REFERENCE ONLY.

2. COORDINATE AND VERIFY EXACT TERMINATION POINTS OF FIELD WIRING THROUGH CONTROLLER PANEL VENDOR.

3. ALL FIELD WIRING WILL BE DONE BY ELECTRICAL CONTRACTOR.

4. FOR CABLE SIZE AND CONDUITS REFER TO ELECTRICAL SHEETS.

PUMP CONTROLLER WIRING DIAGRAM

TYPICAL FAULT DEVICES

- THERMAL OVERLOAD
- THERMISTOR RELAYS
- FLOW METER RELAYS
- THERMAL MONITOR RELAYS, ETC.
SOIL EROSION AND SEDIMENT CONTROL NOTES

EROSION CONTROL INSPECTION

1. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT.

WINTER SHUT DOWN

1. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUT DOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SEEDS AND OTHER NUISANCES ARE BEING MAINTAINED IN A TIDY CONDITION. THE CONTRACTOR MUST ENSURE THAT EACH major STAGE OF WORK IS COMPLETED PRIOR TO WINTER SHUT DOWN IN ORDER TO MAINTAIN THE CONSISTENCY OF THE WORK.

TEMPORARY DITCH FILTER

1. TEMPORARY DITCH FILTERS WILL BE REQUIRED AT THOSE LOCATIONS WHERE THE CONTRACTOR'S OPERATION IS LOCATED ON PERMANENT WATERSHED (IN-STREAM WORK). THE LOCATION OF TEMPORARY DITCH FILTERS IS SHOWN ON THE PLANS. THE CONTRACTOR MUST MAINTAIN AND KEEP FILTERS CLEAN AND WELL MAINTAINED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF THE FILTERS. THE CONTRACTOR SHALL MAINTAIN TEMPORARY DITCH FILTERS FOR MAINTENANCE PURPOSES.

DEWATERING

1. WHEN DEWATERING THE CONSTRUCTION AREA IS NECESSARY, ALL WATERS SHALL BE FILTERED BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE. APPROVED BY THE CITY. ALL FILTER BAGS MUST HAVE SECONDARY CONSTRUCTION EROSION CONTROL MEASURES TYPICAL CONSTRUCTION SEQUENCE NOTES

1. WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT

1. USES OF DEWATERED WATER (ALSO, REFLECTED AND GRADING SAND) WILL BE COMPLETE AT THE END OF EACH MAJOR STAGE OF WORK. THIS WILL INCLUDE REMOVAL OF ALL EQUIPMENT AND HAZARDOUS MATERIAL WITHIN THE CHANNEL.

PERMIT

1. THIS PROJECT REQUIRE A U.S. ARMY CORPS OF ENGINEERS (USACE) 104 PERMIT THAT HAS BEEN SECURED BY THE CITY. AS A CONDITION OF THE PERMIT THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (SWCD) FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE SWCD WEBSITE.

WORK IN WATERWAY

1. NO WORK WILL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS WILL BE CONDUCTED FROM DEWATERED SOIL AND/OR WATER.ADC. ALL CRITICAL AREAS MUST BE LOCATED IN THE CHANNEL. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AN IN-STREAM WORK PLAN TO THE MICHIGAN DEPARTMENT OF COMMERCE/ENVIRONMENTAL QUALITY (MDEQ). THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AN IN-STREAM WORK PLAN TO THE MICHIGAN DEPARTMENT OF COMMERCE/ENVIRONMENTAL QUALITY (MDEQ).

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GENERAL NOTES

1. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN IN-STREAM WORK, A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

2. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THIS ENGINEER.

**NOTES:**

1. **LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.**

2. **ANY REQUIRED STOCKPILING MUST MEET APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.**

**LOCATION KEY**

- EX ROW
- E 65TH STREET
- E 65TH PLACE
- STONY ISLAND AVENUE

**EROSION CONTROL PLAN**

**JACKSON PARK MOBILITY IMPROVEMENTS**

**SCALE:** 1'' = 20'

**DRAWING NO.:** 01/22/2021

**DESIGN:**

**DRAWN:**

**CHECKED:**

**APPROVED:**

**DATE:**

**REVISIONS**

**NO.**

**BY DATE DESCRIPTION**
LEGEND
EROSION CONTROL PLANT, TEMPORARY SEEDING
EROSION CONTROL PLANT, TEMPORARY SEEDING (ROOT PRUNING)
SLOPE
AREAS REQUIRING IMPACT PERIMETER (ROOT PRUNING)
INLET FILTER
TREE MAINTENANCE (ROOT PRUNING)

MATCH LINE STA 224+00
MATCH LINE STA 229+00
MATCH LINE STA 234+50
MATCH LINE STA 4006+25.00
MATCH LINE STA 4008+00

STONY ISLAND AVENUE

NOTES:
1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.

MATCH LINE STA 224+00
MATCH LINE STA 229+00
MATCH LINE STA 234+50
MATCH LINE STA 4006+25.00
MATCH LINE STA 4008+00

EX ROW
PR ROW

63RD STREET
E 64TH STREET

LOCATION KEY

FILE NAME: 20-plaplapt-003.dgn
PLOT DATE: 5/17/2021
PLOT SCALE: 40.0000 ' / in.
EROSION CONTROL PLAN
S. STONY ISLAND AVE.

NOTES:
1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.

LEGEND
- Erosion Control Blanket
- Temporary Seeding
- Special Cut/Erosion Areas
- CIVIL TECH LOCAL: CIVIL TECH PROJECTS\DOCUMENTS\PROJECTS\3153\CAD\Sheets\EC\20-p-lp-plot-e-004.dgn

EROSION CONTROL PLAN
S. STONY ISLAND AVE.
1. Locations for concrete washouts and stabilized construction entrances to be determined by the Contractor and approved by the Engineer.

2. Any required stockpiling must have appropriate temporary erosion control measures in place.

**NOTES:**

**LOCATION KEY**
EROSION CONTROL PLAN
5, STONY ISLAND AVE.

NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST MAKE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.

LOCATION KEY

LEGEND:

- CROSSLINE CONTROL ZONES
- TEMPORARY SEEDING
- PERMANENT IMPACT
- SPECIAL GLFER AREAS
- TEMPORARY EROSION CONTROL BARRIER
- TREE MAINTENANCE (ROOT PRUNING)

SCALE: 1' = 20'
LIMITS OF CONSTRUCTION

NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE SPECIFICATION EROSION CONTROL MEASURES IN PLACE.
1. Locations for concrete washouts and stabilized construction entrances to be determined by the contractor and approved by the engineer.

2. Any required stockpiling must have appropriate temporary erosion control measures in place.

LEGEND:
- Erosion Control Blanket
- Temporary Seeding
- Special Erosion Areas
- Temporary Impact
- Filter Inlet
- Maintenance (most prominent)
- Project Limit

NOTES:
- OPC Site Boundary
- EX CORNELL DRIVE
- MSA: 01/22/2021
- Design: Drawn: Checked: Approved:
- Rev 3: 20-P100
- Scale: 1'' = 20'
NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
NOTES:

1. LOCATIONS FOR CONCRETE MASHOUTS AND STABILIZED CONSTRUCTION
   ENTRIES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE
   ENGINEER.

2. ANY REQUIRED STOCKPILE MUST HAVE APPROPRIATE TEMPORARY EROSION
   CONTROL MEASURES IN PLACE.

LEGEND

- Erosion Control Blanket: Temporary Seeding
- Erosion Control Blanket: Special Silt Areas: Temporary Impact
- Filter
- Maintenance (Root Pruning)
- Inlet Filter
- Barrier
- Tree

Project No.: B-7-203

Scale: 1'' = 20'
NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
1. Locations for concrete washouts and stabilized construction entrances to be determined by the contractor and approved by the engineer.

2. Any required stockpiling must have appropriate temporary erosion control measures in place.
NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
1. Locations for concrete washouts and stabilized construction entrances to be determined by the contractor and approved by the engineer.

2. Any required stockpiling must have appropriate temporary erosion control measures in place.

**NOTES:**

- Locations for concrete washouts and stabilized construction entrances to be determined by the contractor and approved by the engineer.
- Any required stockpiling must have appropriate temporary erosion control measures in place.
1. Locations for concrete washouts and stabilized construction entrances to as determined by the contractor and approved by the engineer.

2. Any required stockpiling must have appropriate temporary erosion control measures in place.
NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
1. Locations for concrete washouts and stabilized construction entrances to be determined by the contractor and approved by the engineer.

2. Any required stockpiling must have appropriate temporary erosion control measures in place.
1. Locations for concrete washouts and stabilized construction excavations to be determined by the contractor and approved by the engineer.

2. Any required stockpiling must have appropriate temporary erosion control measures in place.

NOTES:

- Erosion control measures in place.
- Any required stockpiling must have appropriate temporary erosion control measures in place.

LEGEND

- Erosion control blanket: temporary seeding
- Erosion control blanket: permanent impact
- Perimeter erosion
- Tree maintenance (root pruning)
- Inlet filter
- Seedling temporary; GLFER areas
- Special impact; GLFER areas
- Permanent impact
- Erosion control
- Stockpile
- Special areas
- Temporary impact
- Permanent impact
- Special temporary impact
- Tree maintenance (root pruning)

LOCATION KEY

- Match line
- 01/22/2021
- Drawn
- Design
- Checked
- Approved
- Date
- Revisions

FILE NAME: PLOT DATE: PLOT SCALE: 40.0000 ' / in.

TOTAL SHEETS SHEET NO.: 5015+50 5024+50

PROJECT NO.: B-7-203

CONTRACT NO.: 5015-50

EROSION CONTROL PLAN
E. HAYES DR.

OF TRANSPORTATION
CHICAGO DEPARTMENT

JACKSON PARK MOBILITY IMPROVEMENTS

STA. TO STA.
SCALE: 1" = 20'

FILE NAME: PLOT DATE: PLOT SCALE: 40.0000 ' / in.

TOTAL SHEETS SHEET NO.: 5015+50 5024+50

PROJECT NO.: B-7-203

CONTRACT NO.: 5015-50

EROSION CONTROL PLAN
E. HAYES DR.

OF TRANSPORTATION
CHICAGO DEPARTMENT

JACKSON PARK MOBILITY IMPROVEMENTS

STA. TO STA.
SCALE: 1" = 20'

FILE NAME: PLOT DATE: PLOT SCALE: 40.0000 ' / in.

TOTAL SHEETS SHEET NO.: 5015+50 5024+50

PROJECT NO.: B-7-203

CONTRACT NO.: 5015-50

EROSION CONTROL PLAN
E. HAYES DR.

OF TRANSPORTATION
CHICAGO DEPARTMENT

JACKSON PARK MOBILITY IMPROVEMENTS

STA. TO STA.
SCALE: 1" = 20'

FILE NAME: PLOT DATE: PLOT SCALE: 40.0000 ' / in.

TOTAL SHEETS SHEET NO.: 5015+50 5024+50

PROJECT NO.: B-7-203

CONTRACT NO.: 5015-50

EROSION CONTROL PLAN
E. HAYES DR.

OF TRANSPORTATION
CHICAGO DEPARTMENT

JACKSON PARK MOBILITY IMPROVEMENTS

STA. TO STA.
SCALE: 1" = 20'

FILE NAME: PLOT DATE: PLOT SCALE: 40.0000 ' / in.

TOTAL SHEETS SHEET NO.: 5015+50 5024+50

PROJECT NO.: B-7-203

CONTRACT NO.: 5015-50

EROSION CONTROL PLAN
E. HAYES DR.

OF TRANSPORTATION
CHICAGO DEPARTMENT

JACKSON PARK MOBILITY IMPROVEMENTS

STA. TO STA.
SCALE: 1" = 20'

FILE NAME: PLOT DATE: PLOT SCALE: 40.0000 ' / in.

TOTAL SHEETS SHEET NO.: 5015+50 5024+50

PROJECT NO.: B-7-203

CONTRACT NO.: 5015-50

EROSION CONTROL PLAN
E. HAYES DR.

OF TRANSPORTATION
CHICAGO DEPARTMENT

JACKSON PARK MOBILITY IMPROVEMENTS

STA. TO STA.
SCALE: 1" = 20'

FILE NAME: PLOT DATE: PLOT SCALE: 40.0000 ' / in.

TOTAL SHEETS SHEET NO.: 5015+50 5024+50

PROJECT NO.: B-7-203

CONTRACT NO.: 5015-50

EROSION CONTROL PLAN
E. HAYES DR.

OF TRANSPORTATION
CHICAGO DEPARTMENT

JACKSON PARK MOBILITY IMPROVEMENTS

STA. TO STA.
SCALE: 1" = 20'

FILE NAME: PLOT DATE: PLOT SCALE: 40.0000 ' / in.

TOTAL SHEETS SHEET NO.: 5015+50 5024+50

PROJECT NO.: B-7-203

CONTRACT NO.: 5015-50

EROSION CONTROL PLAN
E. HAYES DR.

OF TRANSPORTATION
CHICAGO DEPARTMENT

JACKSON PARK MOBILITY IMPROVEMENTS

STA. TO STA.
SCALE: 1" = 20'

FILE NAME: PLOT DATE: PLOT SCALE: 40.0000 ' / in.

TOTAL SHEETS SHEET NO.: 5015+50 5024+50

PROJECT NO.: B-7-203

CONTRACT NO.: 5015-50

EROSION CONTROL PLAN
E. HAYES DR.
EROSION CONTROL PLAN

EROSION CONTROL PLAN

NOTES:
1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.

LEGEND
- EROSION CONTROL BLANKET, TEMPORARY SEEDING
- PERIMETER EROSION MARKER
- INLET FILTER
- TREE MAINTENANCE (ROOT PRUNING)
- DESIGNER:
- DRAWN:
- CHECKED:
- APPROVED:
- DATE:

MATCH LINE STA S028+00 - 00
MATCH LINE STA S029+50 - 00

HAYES DRIVE

LOCATION KEY

- MATCH LINE S028+00
- S029+50

- SCALE:

1'' = 20'

FILE NAME:
PLOT DATE:
PLOT SCALE:

589
5/17/2021
50.0000 '/in.

TOTAL SHEETS
SHEET NO.

5028+00
5029+50

PROJECT NO.
CONTRACT NO.
DRAWING NO.

- B-7-203

- NO.

- EC-23

- 01/22/2021

- 01/22/2021

- 01/22/2021

- 01/22/2021

- EC-23

- B-7-203

- NO.

- 01/22/2021

- 01/22/2021

- 01/22/2021

- 01/22/2021

- EC-23

- B-7-203

- NO.

- 01/22/2021

- 01/22/2021

- 01/22/2021

- 01/22/2021

- EC-23

- B-7-203

- NO.

- 01/22/2021

- 01/22/2021

- 01/22/2021

- 01/22/2021

- EC-23

- B-7-203

- NO.

- 01/22/2021

- 01/22/2021

- 01/22/2021

- 01/22/2021

- EC-23

- B-7-203

- NO.

- 01/22/2021

- 01/22/2021

- 01/22/2021

- 01/22/2021

- EC-23

- B-7-203

- NO.

- 01/22/2021

- 01/22/2021

- 01/22/2021

- 01/22/2021

- EC-23

- B-7-203

- NO.

- 01/22/2021

- 01/22/2021

- 01/22/2021

- 01/22/2021

- EC-23

- B-7-203

- NO.

- 01/22/2021

- 01/22/2021

- 01/22/2021

- 01/22/2021

- EC-23

- B-7-203

- NO.
1. Locations for concrete washouts and stabilized construction entrances to be determined by the contractor and approved by the engineer.

2. Any required stockpiling must have appropriate temporary erosion control measures in place.
NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
LEGEND

EROSION CONTROL
PERMANENT SEEDING
EROSION CONTROL BARRIER
TEMPORARY SEEDING
SPECIAL FILTER AREAS
TEMPORARY IMPACT
FILTER
PERIMETER EROSION BARRIER

TREE MAINTENANCE (ROOT PRUNING)

LOCATION KEY

MATCH LINE STA 5024+50.00
SEE SHEET EC-22

MATCH LINE STA 5024+00.00
SEE SHEET EC-23

Q. HAYES DRIVE

Q US 41 (LAKE SHORE DRIVE)

MATCH LINE STA 9017+00

Match Line STA 9028+00

MATCH LINE STA 9024+50.00

LOCAL SHEET NO. SHEET EC-23

NOTE:

1. LOCATIONS FOR CONCRETE MASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
NOTES:

1. LOCATIONS FOR CONCRETE WASHERS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILE MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
NOTES:
1. LOCATIONS FOR CONCRETE INLETS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONSTRUCT AND APPROVED BY THE ENGINEER.
2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.

LOCATION KEY

1. BARRIER
2. EROSION TRACK
3. PERIMETER BARRIER
4. FILTER
5. INLET
6. IMPACT
7. PERMANENT AREAS
8. GLFER
9. (ROOT PRUNING)
10. MAINTENANCE TREE
11. SEEDING
12. TEMPORARY IMPACT
13. SPECIAL; GLFER AREAS
14. TEMPORARY SEEDING
15. BLANKET;
16. EROSION CONTROL

SCALE IN FEET

NOTE: PROPOSED CONDITIONS
NOTE:
1. Locations for concrete washouts and stabilized construction entrances to be determined by the contractor and approved by the engineer.
2. Any required stockpiling must have appropriate temporary erosion control measures in place.

LIMITS OF CONSTRUCTION

MATCH LINE STA 9928+00
SEE SHEET 5

MATCH LINE STA 9935+50
SEE SHEET 5

MATCH LINE STA 9935+50
SEE SHEET 1

MATCH LINE STA 9942+00
SEE SHEET 5

MATCH LINE STA 9951+00
SEE SHEET 1

LEGEND

EROSION CONTROL BLANKET TEMPORARY SEEDING

EROSION CONTROL BLANKET TEMPORARY SEEDING SPECIAL GLEER AREAS TEMPORARY IMPACT

PERIMETER EROSION BARRIER

TREE MAINTENANCE (ROOT PRUNING)

NOTE:
- PROPOSED CONDITIONS
- EXISTING CONDITIONS

FILE NAME:
DRAWING NO.
PROJECT NO.
CONTRACT NO.

UNITS:
SCALE: 1''=20'

US 41 (LAKE SHORE DRIVE)
59TH STREET INLET BRIDGE

LIMITS OF CONSTRUCTION
BEYOND SHEET
DISTURBANCE LIMITS EXTEND BEYOND SHEET

JACKSON PARK MOBILITY IMPROVEMENTS
S. LAKE SHORE DR.

59TH STREET INLET BRIDGE

LOCATION KEY

LEGEND

EROSION CONTROL BLANKET TEMPORARY SEEDING

EROSION CONTROL BLANKET TEMPORARY SEEDING SPECIAL GLEER AREAS TEMPORARY IMPACT

PERIMETER EROSION BARRIER

TREE MAINTENANCE (ROOT PRUNING)

NOTE:
- PROPOSED CONDITIONS
- EXISTING CONDITIONS

FILE NAME:
DRAWING NO.
PROJECT NO.
CONTRACT NO.

UNITS:
SCALE: 1''=20'

US 41 (LAKE SHORE DRIVE)
59TH STREET INLET BRIDGE

LIMITS OF CONSTRUCTION
BEYOND SHEET
DISTURBANCE LIMITS EXTEND BEYOND SHEET

JACKSON PARK MOBILITY IMPROVEMENTS
S. LAKE SHORE DR.
1. Locations for concrete washouts and stabilized construction entrances to be determined by the contractor and approved by the engineer.

2. Any required stockpiling must have appropriate temporary erosion control measures in place.
NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
NOTES:
1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED SOIL EROSION CONTROL MEASURES IN PLACE.
NOTES:

1. LOCATIONS FOR CONCRETE WASHOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

2. ANY REQUIRED STOCKPILING MUST HAVE APPROXIMATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
NOTES:
1. LOCATIONS FOR CONCRETE WASHSOUTS AND STABILIZED CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
2. ANY REQUIRED STOCKPILING MUST HAVE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES IN PLACE.
1. Locations for concrete washouts and stabilized construction entrances to be determined by the contractor and approved by the engineer.

2. Any required stockpile must have appropriate temporary erosion control measures in place.
LANDSCAPING PLAN
TREE REMOVAL AND PROTECTION
S. CORNELL DR.

LEGEND
6 INCHES BLACK EARTH WITH CLAY 5 INCHES SEEDING
GLUE AREA TEMPORARY IMPACT
GLUE AREA PERMANENT IMPACT
TREE LINE
TREE TRUNK PROTECTION
TREE REMOVAL (SEE TREE REMOVAL SCHEDULE)
LIMITS OF CONSTRUCTION
SEEDING SALT TOLERANT

LOCATION KEY
M A T C H LINE
S T A 8 0 1 2 + 0 0
S T A 8 0 1 5 + 5 0

SCALE: 1" = 20'

FILE NAME:
PLOT DATE:
PLOT SCALE:

5/17/2021
40.0000' / in.

TOTAL SHEETS
SHEET NO.
DRAWING NO.
PROJECT NO.
CONTRACT NO.

EML EML TKL 01/22/2021 DESIGN: DRAWN: CHECKED: APPROVED:
DATE:

REVISIONS NO. BY DATE DESCRIPTION:

FILE NAME:
PLOT DATE:
PLOT SCALE:

5/17/2021
40.0000' / in.

TOTAL SHEETS
SHEET NO.
DRAWING NO.
PROJECT NO.
CONTRACT NO.

EML EML TKL 01/22/2021 DESIGN: DRAWN: CHECKED: APPROVED:
DATE:

REVISIONS NO. BY DATE DESCRIPTION:
LEGEND
- BLACK EARTH WITH CLASS I SEEDING
- GLFER
  - TEMPORARY IMPACT
  - PERMANENT IMPACT
- TREE TRUNK PROTECTION
- TREE REMOVAL (SEE TREE REMOVAL SCHEDULE)
- LIMITS OF CONSTRUCTION
- SODDING, BLACK EARTH 6-INCHES SALT TOLERANT

LOCATION KEY
- EX CORNELL DRIVE

LANDSCAPING PLAN TREE REMOVAL AND PROTECTION S. CORNELL DR.

CDOT
COLORADO DEPARTMENT OF TRANSPORTATION

PROJECT NO. 07-2-14
CONTRACT NO. B-7-203
DESIGN: DRAWN: CHECKED: APPROVED:
DATE: REVISIONS

FILE NAME: p w:\C IV IL -P W -IN T .c iv ilte c h .lo c a l:C iv ilte c h  P ro je c ts\D o c u m e n ts\P ro je c ts\3 1 5 3 \C A D \S h e e ts\L a n d sc a p e \2 0 -p ln p ln \sh t-ls-0 0 9 .d g n

SCALE: 1''=20'
LANDSCAPING PLAN
TREE REMOVAL AND PROTECTION
S. CORNELL DR.

LEGEND

- OUTLIER AREAS
- TEMPORARY IMPACT
- OUTLIER AREAS
- PERMANENT IMPACT
- TREE DRIP LINE
- TREE TRUNK PROTECTION
- TREE REMOVAL (SEE TREE REMOVAL SCHEDULES)
- LIMITS OF CONSTRUCTION
- SODDING: SALT TOLERANT

LOCATION KEY

MATCH LINE STA 1108+60
SEE SHEET LS-8

MATCH LINE STA 884+90
SEE SHEET LS-8

OPC SITE BOUNDARY

EX CORNELL DRIVE
LEGEND:

- Impact
- SODDING, SALT TOLERANT
- Construction Limits (see Tree Removal Schedule)
- Tree Trunk Line
- Tree Drip Line
- Temporary Areas
- Permanent Areas
- Permanent Impact
- Tree Removable
- Protection Screen
- Impacted Buffers
- SODDING, SALT TOLERANT

NOTE: All grading, landscaping, and tree protection activities to be performed in accordance with this plan. Refer to the Tree Removal and Protection schedule for specific details and requirements.
LANDSCAPING PLAN
TREE REMOVAL AND PROTECTION
S. LAKE SHORE DR.

LOCATION KEY

LEGEND
- BLACK FRUIT WITH CLAD 1 INDOOR/OUTDOOR SEEDING
- GLOVER AREA: TEMPORARY IMPACT
- GLOVER AREA: PERMANENT IMPACT
- TREE TRUNK PROTECTION
- TREE REMOVAL (SEE TREE REMOVAL SCHEDULE)
- LIMITS OF CONSTRUCTION
- SODDING SALT TOLERANT
- TREE Drip LINE

SCALE: 1"=20'

PLOT DATE: 5/17/2021
PLOT SCALE: 40.0000 '/in.

FILE NAME:
PROJECT NO.-B-7-203

FILE DESCRIPTION:
2020-LP
LS-25

DRAWING NO.

CONTRACT NO.

DATE:
REVISIONS
LANDSCAPING PLAN
TREE REMOVAL AND PROTECTION
S. LAKE SHORE DR.

EXISTING RPZ - CONTRACTOR TO FIELD-VERIFY LOCATION. IRRIGATION SHOULD BE CUTOFF, CAPEVED, AND MAINTAINED IN OPERATING ORDER DURING THE DURATION OF CONSTRUCTION.
LANDSCAPING PLAN
PROPOSED PLANTING
S. STONY ISLAND AVE.

LOCATION KEY

LEGEND

SHADE TREES

ORNAMENTAL TREES

SCALE: 1''=40'

FILE NAME: p:\CIVIL-PW-INT\CIVILTECH\LOCAL\CIVILTECH PROJECTS\PROJECTS\3153\CAD\Sheets\Roadway\Contract 1\shl-lcp-004.dgn

FILE DATE: 5/17/2021

PLOT DATE: 5/17/2021

PLOT SCALE: 80.0000' / in.
LANDSCAPING PLAN
PROPOSED PLANTING
S. STONY ISLAND AVE.

JACKSON PARK MOBILITY IMPROVEMENTS
STA. TO STA.

SCALE: 1"=10'

FILE NAME:
PLOT DATE:
PLOT SCALE:
5/17/2021
20.0000' / in.

PROJECT NO.:
CONTRACT NO.:
B-7-203

TOTAL SHEETS:
SHEET NO.:
LS-41

DRAWING NO.:
226+65
229+66

EX ROW
EX ROW
EX ROW
EX ROW
EX ROW
EX ROW
EX ROW
EX ROW
EX ROW

AREA OF SOD
LESS THAN 3' IN WIDTH
SHALL BE PAVED - TYP.

SALT TOLERANT SOD
SEE CIVIL - EXTEND 6' BEYOND GRATE - TYP.
STRUCTURAL SOIL

MATCH LINE - STA. 226+65 - START OF WORK
MATCH LINE - STA. 229+66 - SEE

LEGEND

SHADE TREE
ORNAMENTAL TREE
STRUCTURAL SOIL
SALT TOLERANT SOD
STREET LIGHT
EXISTING TREE

TREE GRATE

LOCATIONS

LOCATION KEY

S-41 PLANT SCHEDULE

<table>
<thead>
<tr>
<th>CODE</th>
<th>QTY</th>
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<td>ELM</td>
<td>ULMUS HORIZON</td>
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<td>SLH</td>
<td>3</td>
<td>HONEYLOCUST</td>
<td>TRACANTHOS 'SKYLINE'</td>
<td>SKYLINE</td>
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<td>LILAC</td>
<td>SYRINGA RETICULATA</td>
<td>SILK</td>
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MADIAN PLANTER #1

325' OF 228 LF

EXISROW
227
228
229

644
1434
TOTAL
SHEETS:
SHEET:
1305
15

TREES
PIT TREE AND PARKWAY
NEW

MATCH LINE - S T A . 2 2 6 + 6 5 - S T A R T  O F  W O R K
MATCH LINE - S T A . 2 2 9 + 6 6 - S E E
### Median Planter #3

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<tr>
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<td>QUERCUS OBDURANS</td>
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<tr>
<td>COC</td>
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<td>HACKBERRY</td>
<td>CEPHALOCEPHALUM RENIFORMIS</td>
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<tr>
<td>SYR</td>
<td>3</td>
<td>LILAC</td>
<td>SYRINGA RETICULATA</td>
<td>IVORY IVORY SILE</td>
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**EXISTING TREE PROTECT - TO REMAIN**

### New Parkway and Tree Planting Schedule

<table>
<thead>
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<th>QTY</th>
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<th>BOTANIC NAME</th>
<th>COMMON NAME</th>
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<tr>
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<td>HACKBERRY</td>
<td>CEPHALOCEPHALUM RENIFORMIS</td>
<td>OCCIDENTALIS</td>
<td>2'5&quot;-3' B&amp;B</td>
<td></td>
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<tr>
<td>MAL</td>
<td>3</td>
<td>CRABAPPLE</td>
<td>MALUS INTIFER</td>
<td>JEWEL RED</td>
<td>2'5&quot;-3' B&amp;B</td>
<td></td>
</tr>
<tr>
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<td>IVORY IVORY SILE</td>
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**EXISTING TREE PROTECT - TO REMAIN**

**SCALE IN FEET**

**FILE NAME:** p:\CIVIL\PWP - INTEGRAL\CIVIL TECH PROJECTS\DOCUMENTS\PROJECTS\3153\CAD SHEETS\ROADWAY\CONTRACT 1\Sho-1c-012.dgn

**Plot Date:** 05/17/2021

**Plot Scale:** 20.0000"/in.

**Total Sheets:** 649

**Sheet No.:** LS-46

**Drawing No.:** 3153-012

**Contract No.:** B-7-203

**Project No.:** -

**Legend:**
- Shade Tree
- Ornamental Tree
- Structural Soil
- Tree in Grate
- Street Light
- Existing Tree

**Location Key:**
- S Stony Island Ave
LANDSCAPING PLAN
S. STONY ISLAND AVE.

PROPOSED PLANTING

SAINTS STONY ISLAND AVE.

OF TRANSPORTATION
CHICAGO DEPARTMENT

STA. 244+73 TO STA. 247+77

SCALE: 1"=10'

FILE NAME: \CIVIL - PW - INCIVILTECH\LOCAL\CIVILTECH PROJECTS\DOCS\PROJECTS\3153\CAD\SHEETS\ROADWAY\CONTRACT 1\SH-1C-P-013.dgn

PLANT SCHEDULE

LOCATION KEY

TREES

PIT TREE AND PARKWAY NEW CODE

QTY NAME

BOTANIC NAME

COMMON NAME

SIZE

COMMENTS

SWO 3 SHRIMP WHT OAK QUERCUS RIGIDA 2.5'-3' B&B

ULM NEW HORIZON LILAC NEW HORIZON 2.5'-3' B&B

ULM ROSY WINGED LILAC ROYAL WINGED 2.5'-3' B&B

ECO KENTUCKY COFFEE GYMNOCLADUS DOUGLAS 2.5'-3' B&B

MAL CRAMP TREE MALUS RED-EXIL 2.5'-3' B&B

LYP SALT TOL. SOD SYRINGA B&B 3'-2.5'

SWO 3 OAK WHITE SWAMP BICOLOR QUERCUS B&B 2.5'-3'

SLH HONEY LOCUST SKYLINE TRIAHANTHOS B&B 2.5'-3'

ULM 3 ELM HORIZON NEW HORIZON 2.5'-3'

ULM 4 COFFEE KENTUCKY GYMNOCLADUS DOUGLAS 2.5'-3' B&B

MAL LILAC SILK IVORY RETICULATA SYRINGA 3'-2.5'

LYP SALT TOL. SOD SYRINGA B&B 3'-2.5'

SWO 3 OAK WHITE SWAMP BICOLOR QUERCUS B&B 2.5'-3'

MAL 3 CRABAPPLE JEWEL RED MALUS B&B 2.5'-3'

SLH HONEYLOCUST SKYLINE TRIAHANTHOS B&B 2.5'-3'

MAL LILAC SILK IVORY RETICULATA SYRINGA 3'-2.5'

LYP SALT TOL. SOD SYRINGA B&B 3'-2.5'

LEGEND

SHADE TREE

ORNAMENTAL TREE

TREE IN GRATE

EXISTING TREE

SALT TOLERANT SOIL

STRUCTURAL SOIL

TREES

LEGEND MEDIAN PLANTER #4

S. STONY ISLAND AVE.

NETWORK

PREVIOUSLY ABANDONED SEWER

EXISTING WATER

EXisting Tree


FILE NAME:

PLT DATE: 5/17/2021

PLT SCALE: 20.0000 ' / in.

10' SCALE IN FEET

E 64TH ST

E 63RD ST

E 62ND ST

E 61ST ST

E 60TH ST

E 59TH ST

S STONY ISLAND AVE

LOCATION KEY

MEDIAN PLANTER #4

S. STONY ISLAND AVE.

LANDSCAPING PLAN

JACKSON PARK MOBILITY IMPROVEMENTS

TOTAL SHEETS SHEET NO. DRAWING NO. CONTRACT NO. PROJECT NO.

10 1353

15-47
LEGEND

SHADE TREE

ORNAMENTAL TREE

TREE IN CRATE

STREET LIGHT

SALT TOLERANT SOIL

STRUCTURAL SOIL

LOCATION KEY

S-30 PLANT SCHEDULE

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<td>NEW HORIZON EL</td>
<td>LUMUS NEW HORIZON</td>
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NEW ENTRANCE AND TREE PIT TREES

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<td>MALUS RED JEWEL</td>
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<td>SYRINGA RETICULATA</td>
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S. STONY ISLAND AVE.

LANDSCAPING PLAN PROPOSED PLANTING

JACKSON PARK MOBILITY IMPROVEMENTS

SCALE: 1"=10'
### Median Trees

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<td>B&amp;B</td>
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<tr>
<td>M</td>
<td>2</td>
<td>Ulmus Horizontalis</td>
<td>New Horizon Elm</td>
<td>3.5&quot;-4&quot;</td>
<td>B&amp;B</td>
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<tr>
<td>CO</td>
<td>3</td>
<td>Celtis Occidentalis</td>
<td>Hackberry</td>
<td>3.5&quot;-4&quot;</td>
<td>B&amp;B</td>
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<tr>
<td>KCO</td>
<td>4</td>
<td>Gleditsia Triacanthos</td>
<td>Honeylocust</td>
<td>2.5&quot;-3&quot;</td>
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<tr>
<td>MAL</td>
<td>5</td>
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<td>Crabapple</td>
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### New Parkway and Tree Pit Trees

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<td>S.H.</td>
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<td>B&amp;B</td>
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<td>Honeylocust</td>
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<td>Lilac</td>
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### Location Key

- Shade Tree
- Ornamental Tree
- Structural Soil
- Existing Tree
- Tree Grate
- Street Light

### Legend

- **Shade Tree**
- **Ornamental Tree**
- **Structural Soil**
- **Existing Tree**
- **Tree Grate**
- **Street Light**
### Proposed Planting

**Location:** Lake Shore Drive

**Irrigation:** To be cut, capped, and maintained in operating order for duration of construction.

**Shrubs to be planted in areas 2' wide or greater - typ.**

**Legend:**
- Shade Tree
- Ornamental Tree
- Structural Soil
- Salt tolerant sod
- Tree grate
- Street light
- Shrub
- Existing tree

**Table:**

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<th>Common Name</th>
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<td>RUGOSA ROSE</td>
<td>ROSA RUGOSA</td>
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**Field Verify Location:**

**R.P.Z.:** Contractor to field verify location.
1. Tree Wrap should only be installed during the fall planting season on species susceptible to frost as determined by the Commissioner.

2. See tree planting specifications and details for material and placement.

3. Structural soil is to be placed on existing subgrade at least 6" below the proposed depth. It shall be placed in 6" bands between 2 designated groups of tree pits. If there is past the grate of the last tree in the group as shown in the contract plans, no structural soil is specified. Use specified subbase.

4. GENERAL NOTE:

   * Sub-BASE. If specified on contract plans, if no structural soil is specified, utilize specified structural soil past the grate of the last tree in the group as shown in the contract plans. If no structural soil is specified, use specified subbase.
1. Contact force account construction manager at FAC@CTRWATER.NET two (2) weeks prior to the anticipated start of construction date such that a resident engineer can be assigned to this project. Failure to comply with this requirement may result in additional expenses to the proposed project to verify that all work conforms to the standards. After the submitted shop drawings are approved by the DWM, the contractor shall prepare the drawing to show the changes made. The approved shop drawings shall be submitted to the DWM and to FAC@CTRWATER.NET prior to the anticipated start of construction.

2. The contractor must observe all applicable standards and requirements established by the City of Chicago Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

3. All legal requirements are to be completed by the City of Chicago, Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

4. The contractor must obtain a "permit" from the City of Chicago, Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305. All legal requirements are to be completed by the City of Chicago, Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

5. The contractor must observe all applicable standards and requirements established by the City of Chicago Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

6. The contractor must observe all applicable standards and requirements established by the City of Chicago Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

7. The contractor shall be responsible for designing all applicable permits, including a deep permit from the City of Chicago Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305. All legal requirements are to be completed by the City of Chicago, Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

8. The contractor shall be responsible for all legal requirements established by the City of Chicago Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305. All legal requirements are to be completed by the City of Chicago, Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

9. The contractor shall be responsible for all legal requirements established by the City of Chicago Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305. All legal requirements are to be completed by the City of Chicago, Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

10. The contractor shall be responsible for all legal requirements established by the City of Chicago Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305. All legal requirements are to be completed by the City of Chicago, Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

11. The contractor shall be responsible for all legal requirements established by the City of Chicago Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305. All legal requirements are to be completed by the City of Chicago, Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.

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14. The contractor shall be responsible for all legal requirements established by the City of Chicago Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305. All legal requirements are to be completed by the City of Chicago, Department of Buildings, Planning Permit and Plan Section, City Hall, 121 N. LaSalle Street, Room 305.
PLAN AND PROFILE
500 600 700 800
0 20 40 60 80
STONY ISLAND AVENUE

EX. 36" WATER MAIN
EX. 36" WATER MAIN
EX. 36" WATER MAIN
EX. 36" WATER MAIN
EX. 24" WATER MAIN

CONTRACT NO.
PROJECT NO.
- B-7-203

FILE NAME:
PAYMENT:
DATE:
REVISIONS
NO.
BY
DATE
DESCRIPTION

TOTAL SHEETS
SHEET NO.
WM-2

FOR NOTE 1A SEE SHEET NO. WM-2
FOR NOTE 1B SEE SHEET NO. WM-3
FOR NOTE 1C SEE SHEET NO. WM-4
FOR NOTE 2 SEE SHEET NO. WM-2
FOR NOTE 3(1) SEE SHEET NO. WM-4
FOR NOTE 3(2) SEE SHEET NO. WM-11
FOR NOTE 3(5) SEE SHEET NO. WM-6

LOCATION KEY
EX. 8" WATER MAIN
EX. 12" WATER MAIN
EX. 36" WATER MAIN
EX. 36" WATER MAIN
EX. 36" WATER MAIN

WATER QUALITY REQUIREMENTS
FLUSH AND SAMPLE THE NEW WATER MAIN IN ACCORDANCE WITH WATER QUALITY REQUIREMENTS.

DE-ENERGIZE THE EXISTING 36" FEEDER MAIN TO THE SOUTH. REMOVE THE TEMPORARY CAPS OF NOTE 3(1) AND CONNECT THE NEW WATER MAIN TO THE SOUTH. REMOVE THE TEMPORARY CAPS OF NOTE 3(2) AND CONNECT THE NORTH AND SOUTH. CUT, CAP AND BRACE THE EXISTING PIPE NORTH AND SOUTH PER BRACING DETAILS. CONTRACTOR TO PROVIDE DETAIL DESIGN AND STRUCTURAL CALCULATIONS. RE-ENERGIZE THE EXISTING 36" FEEDER MAIN TO THE SOUTH.

EX. 12" TRANSITION SLEEVES (CUT TO FIT FILLER PIECE)
EXISTING 36" FEEDER MAIN TO THE NORTH AND SOUTH.
REMOVE THE TEMORARY CAPS OF NOTE 3A AND CONNECT THE NEW WATER MAIN TO THE NORTH AND SOUTH.
FLUSH AND SAMPLE THE NEW WATER MAIN IN ACCORDANCE WITH WATER QUALITY REQUIREMENTS.

DE-ENERGIZE THE EXISTING 36" FEEDER MAIN TO THE SOUTH. REMOVE THE TEMPORARY CAPS OF NOTE 3A AND CONNECT THE NEW WATER MAIN TO THE SOUTH. REMOVE THE TEMPORARY CAPS OF NOTE 3B AND CONNECT TO THE EXISTING BUTTERFLY VALVE. INSTALL WHIP TO PROVIDE ONE 8' CAP TO NEAREST EXISTING JOINT TO TO PROVIDE ONE 8' CAP TO NEAREST EXISTING JOINT.

CUT, CAP, AND BRACE (TO THE WEST) THE INTERSECTING GRID MAINS AT 59TH ST., 60TH ST., AND 63RD ST.
CUT, CAP, AND BRACE THE EXISTING 36" FEEDER MAIN TO THE NORTH AND SOUTH PER BRACING DETAILS. CONTRACTOR TO PROVIDE DETAIL DESIGN AND STRUCTURAL CALCULATIONS. RE-ENERGIZE THE EXISTING 36" FEEDER MAIN TO THE SOUTH.

ENCLOSE THE EXISTING 36" FEEDER MAIN TO THE NORTH AND SOUTH FOR ENCLOSING 36" FEEDER MAIN TO THE NORTH AND SOUTH FOR ENCLOSING 36" FEEDER MAIN TO THE NORTH AND SOUTH FOR ENCLOSING 36" FEEDER MAIN TO THE NORTH AND SOUTH.
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WATER MAIN REPLACEMENT
PLAN AND PROFILE
S. STONY ISLAND AVE.

FOR NOTE 11 SEE SHEET NO. WM-4
FOR NOTE 15 SEE SHEET NO. WM-6

INSTALL DRAIN TILE.
CONSTRUCT ONE (1) VALVE BASIN.
THE FIRE HYDRANT MUST BE RESTRAINED.
FLANGE COLOR CODE: BLUE
18' OF 8" D.I.W.P.
1-8"x12" B+PEMJ OFFSET (IF REQUIRED)
1-36"x8" 3BMJ TEE AT 215' N.N.L., 69' E.W.L. (IMMEDIATELY ADJACENT TO WATER MAIN)
1-8" MJ VALVE AT 215' N.N.L., 73' E.W.L.
" FIRE HYDRANT AT 215' N.N.L. (2' BEHIND PROPOSED CURB)
SET: 1-4

INSTALL DRAIN TILE.
CONSTRUCT ONE (1) VALVE BASIN.
THE FIRE HYDRANT MUST BE RESTRAINED.
FLANGE COLOR CODE: BLUE
18' OF 8" D.I.W.P.
1-8"x12" B+PEMJ OFFSET (IF REQUIRED)
1-36"x8" 3BMJ TEE AT 267' S.S.L., 69' E.W.L. (IMMEDIATELY ADJACENT TO WATER MAIN)
1-8" MJ VALVE AT 267' S.S.L., 72' E.W.L.
" FIRE HYDRANT AT 267' S.S.L. (2' BEHIND PROPOSED CURB)
SET: 1-4
REMOVE OLD FIRE HYDRANT AND DELIVER TO THE DISTRICT YARD.

REMOVE THE OLD FIRE HYDRANT AND DELIVER TO THE DISTRICT YARD.

REMOVE 12 LF HYDRANT LEAD

REMOVE 10 LF FIRE HYDRANT LEAD

SET: 1-4

PRIVATE FIRE HYDRANT AT STA. 9943+01, 53' L

THE FIRE HYDRANT MUST BE RESTRAINED.

FLANGE COLOR CODE: FEDERAL SAFETY GREEN

FOR NOTE 51 SEE SHEET NO. WM-14
NOTES
1. DUCTILE IRON WATER MAIN
2. ADAPTER F-C-C-F. TO DUCTILE IRON
3. 24" BRANCH DUCTILE IRON 3MA TEE
4. MJ SLEEVE
5. 24" MJ PLUG AND GASKET
6. MEDALLOD AT ALL MJ JOINTS

INSPECTION MANHOLE INSTALLATION
REPLACE PIPE

D-7

COLOR CODE FOR FIRE HYDRANTS

WM-15
NOTES:
1. PRECAST CONCRETE TOP SLAB TO BE USED WHERE HEAD ROOM IS REQUIRED.
2. PRECAST 6" THICK CONCRETE SLAB WITH #4 GRYPHON COATED REBAR 4" C/C BOTHWAYS.
3. PROVIDE FOUR #4 REBAR LUGS FOR HANDLING. CUTCUT THE LUGS AFTER PLACING THE SLAB IN POSITION.
4. PROVIDE 24"-INCH DIAMETER OPENING IN THE CENTER OR AS REQUIRED.
5. THE LOCATION OF WATERTANK TO BE DETERMINED ON INDIVIDUAL BASIS.
6. PROVIDE 6" THICK COMPACTED CA-16 BEDDING.

BUTTERFLY VALVE BASIN
PRECAST CONCRETE

PLAN

SECTIONAL VIEW

NOTE: INSTALL MEGALUGS ON ALL MECHANICAL JOINTS.

TYPICAL BLOW-OFF/FIRE CISTERN
PRECAST CONCRETE
NOTE:
INSTALL THRUST RESTRAINT GLAND ON ALL MECHANICAL JOINTS.

FIRE HYDRANT SETTING

16" & LARGER WATER MAIN

FM-5

DEAD END THRUST BLOCK

BEND THRUST BLOCK

TEE THRUST BLOCK

DEAD END THRUST BLOCK

BEND THRUST BLOCK

TEE THRUST BLOCK

HORIZONTAL THRUST BLOCK DETAILS

<table>
<thead>
<tr>
<th>PIPE DIA</th>
<th>DEAD END &amp; V.A.</th>
<th>VERTICAL</th>
<th>VERTICAL</th>
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VERTICAL THRUST BLOCK DETAILS

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THRUSTR restraint
CONCRETE THRUST BLOCK DETAILS

1. ALL CONCRETE THRUST BLOCKS AS SHOWN ARE REQUIRED WHEN THRUST RESTRAINT IS NOT PROVIDED BY OTHER MEANS SUCH AS SUITABLE GROOVE IN CAST IRON

2. WHERE THRUST RESTRAINT IS NOT PROVIDED FOR THE CONNECTIONS, CONCRETE THRUST BLOCKS SHALL BE PROVIDED FOR THE LATERAL DiAMETER OF THE PIPE

3. ALL BOLT HOLES, THRUST RESTRAINT BLANKS AND FITTINGS SHALL BE WRAPPED WITH POLYVYLYCINE TUBING TO PREVENT CORROSION AND CONCRETE EXPANSION

4. CONCRETE FOR THRUST BLOCKS MUST NOT CONTAIN PLY SLIP
NOTE:
1. SEE FIRE HYDRANT DRAIN DETAILS.
2. ALL BURIED DUCTILE IRON HYDRANT COMPONENTS MUST BE WRAPPED IN POLYETHYLENE ENCASMENT.
3. SEE DETAIL D-5 FOR FIRE HYDRANT DRAIN ASSEMBLY
4. THE TOP AND FACE OF THE CURB ARE TO BE PAINTED 'SAFETY YELLOW' FOR 5 FEET EACH SIDE OF THE FIRE HYDRANT, EXCEPT WHERE THE 15 FOOT DIMENSION INTERSECTS A CROSSWALK, DRIVEWAY OR SIMILAR FEATURE.

FIRE HYDRANT SETTING DETAIL

WM-23
4/9/2021
GENERAL NOTES

1. Replace the sewer/drain when the invert of the water main is LESS THAN 10" ABOVE the crown of the sewer/drain.

2. When a water main crosses UNDER a sewer/drain, see detail "Water Mains Crossing Under Sewers & House Drains."

3. When the invert of the water main is MORE THAN 10" ABOVE the crown of the sewer/drain, no sewer/drain replacement is required.

KEY TO SYMBOLS

- Proposed DI Water Main
- Proposed DI Water Main Joint (Continuous Pipe Between Joints)
- Existing Sewer or House Drain
- Proposed Sewer/Drain Replacement
- Proposed ATM C1173 Flexible Transition Coupling for Sewer Piping
- Proposed Bentman tee
- Undisturbed Soil

SEWER/DRRAIN REPLACEMENT NOTES

a. Excavate as needed to replace sewer/drain. Brace and shore trenches and excavations as needed to provide safe working conditions and comply with applicable requirements.

b. Cut existing sewer/drain to remove section to be replaced. Bracing is not required.

c. Replace the sewer/drain with a continuous length of ductile iron pipe. The same size as the sewer/drain to fit. Reconnect the sewer/drain with a flanged flange flexible transition couplings for Sewer Piping.

d. Excavate the couplings in sand bentonite chips (1/4" - 3/4") mixed with enough clean water to form a slurry. Place the excavations surrounding the couplings to seal off leaks.

e. Center a length of water main pipe 1 1/2" typically over the sewer/drain bedding.

f. Except where bentonite packs are shown, backfill using typical standards.

g. Comply with IL EPA requirements identified and approved by IL EPA (November 13, 2007).

--

PROJECT NO. - B-7-203

WATER MAINS CROSSING OVER SEWERS & HOUSE DRAINS

WATER MAINS CROSSING UNDER SEWERS & HOUSE DRAINS

REV11.07

D-19

S. STONY ISLAND AVE.

JACKSON PARK MOBILITY IMPROVEMENTS

WM-24

CDOT

CIVIL TECH

CIVIL TECH

FILE NAME: P:\civ\civil-tech\local\Civiltech Projects\Documents\Projects\3153\CAD\Sheets\Water Main\Detail Sheets\shw-m24-d09.dgn

PLOT DATE: 4/9/2021

PLOT SCALE: 480.0000' / ft.

TOTAL SHEETS: 1

SHEET NO.: WM-24

DRAWING NO.: D-19

CONTRACT NO.: -
INJECTION MANHOLE

SECTIONAL VIEW

NOTES
1. PROVIDE 6" THICK COMPACTED CA-16 BEDDING FOR 6" PIPE.
2. USE PRECAST CONCRETE FRAME OR PROVIDE "P" CONCRETE BASE POURED IN PLACE WITH #4 EPSI ONATED REBARS 4" C/C BOTH WAYS.
3. PROVIDE "P" REBAR LUGS FOR HANDLING.
4. PRECAST CONCRETE TOP SLAB TO BE USED WHERE HEADROOM IS REQUIRED.
5. THE LOCATION OF MANHOLE TO BE DETERMINED ON A VISUAL BASIS.
6. OPENING ON TOP SLAB TO BE CENTERED OVER TEST TAP.

PITOMETER TAP BASKET

SCALE 1:64

NOTES
USE CITY OF CHICAGO STANDARD MANHOLE FRAME AND LID
PRECAST CONCRETE ADJUSTING RINGS

INJECTION MANHOLE

SECTIONAL VIEW

NOTES
1. PROVIDE 6" THICK COMPACTED CA-16 BEDDING
2. USE PRECAST CONCRETE FRAME OR PROVIDE "P" CONCRETE BASE POURED IN PLACE WITH #4 EPSI ONATED REBARS 4" C/C BOTH WAYS.
3. PROVIDE "P" REBAR LUGS FOR HANDLING.
4. PRECAST CONCRETE TOP SLAB TO BE USED WHERE HEADROOM IS REQUIRED.
5. THE LOCATION OF MANHOLE TO BE DETERMINED ON A VISUAL BASIS.
6. OPENING ON TOP SLAB TO BE CENTERED OVER TEST TAP.

PITOMETER TAP BASKET

SCALE 1:64
WATER MAIN REPLACEMENT
CDW水道主要管道
S. STONY ISLAND AVE.

GEN. BLDG.

FRAME & LID DIMENSIONS

<table>
<thead>
<tr>
<th>FRAME AND LID</th>
<th>STANDARD</th>
<th>SPECIAL</th>
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<tr>
<td>DIMENSION</td>
<td>INCHES</td>
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<tr>
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</table>
1. Use one length of polyethylene tube wrap per 500' of pipe, trim wrap at pipe joints and fold excess over top of tube for slack reduction.

2. Use Chart "A" to select size of wrap.

**Chart "A" Polyethylene Flat Tube Wraps**

<table>
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<tr>
<th>Pipe Diameter</th>
<th>4</th>
<th>6</th>
<th>8</th>
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<td>24</td>
<td>30</td>
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**Notes:**
- Use one length of polyethylene tube wrap per 500' of pipe, trim wrap at pipe joints and fold excess over top of tube for slack reduction.
- Use Chart "A" to select size of wrap.

**Typical Service Reconnection 2" and Larger Using M.J. Resilient Wedge Valve**

**Diagram:**
- M.J. Plug
- Existing Service
- Proposed Water Main
- Existing Water Main
- Water Main Replacement
- Polyethylene Wrap Detail

**Revision:** D-10
SECTION B-B

SECTION A-A

DRIP SHUT-OFF & OPERATING STEM

1 1/2" DIA. I.D.
LIGHT DRIVING FIT ON OPERATING STEM.

1/4" GRILLED HOLES

OPERATING STEM

1" HEX. GRIP NUT

STEEL. D. S. SQ. THREAD

1 REQUIRED

D10/26/07

CHICAGO FIRE HYDRANT DETAIL

D-1

WM-29

CHICAGO FIRE HYDRANT DETAIL

D-1

WM-29

VALVE WASHER: CAST IRON

CATEG. NO. 81001101 1 REQUIRED 60 DUROMETERS

SEATING VALVE: NEOPRENE

VALVE WASHER & SEATING VALVE

D10/26/07

688

1434

TOTAL SHEETS

SHEET NO.

DRAWING NO.

CONTRACT NO.

PROJECT NO.

CHICAGO DEPARTMENT OF TRANSPORTATION

WATER MAIN REPLACEMENT

S. STONY ISLAND AVE.

JACKSON PARK MOBILITY IMPROVEMENTS

480.0000' / ft.

6/9/2021

FILE NAME:

PLOT DATE:

PLOT SCALE:

4/9/2021

203

B-7-
SPECIAL WRENCH NUT - DUCTILE IRON
PATTERN NO. NH78 - 1 REQUIRED

CAP SCREW STAINLESS STEEL
HEX HEAD TYPE 300 SERIES
1/2" STANDARD - Req.

SPECIALTY WRENCH NUT, CAP SCREW & FROST PLUG DETAILS

CHICAGO FIRE HYDRANT DETAIL

STUFFING BOX NUT - Bronze
PATTERN NO. NH 8 - 1 Required

STUFFING BOX NUT & WASHER DETAILS

D-1
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

- S. STONY ISLAND AVE.
- 85TH ST.
- DEGREES, SOLID ON 20' CENTERS
- 6" WHITE DIAGONALS @ 45
- 6" SOLID WHITE (MP)...
- 6" WHITE DOTTED LINE

SCALE: 1''=20'

FILE NAME:
PLOT DATE: 2/15/2021
PLOT SCALE: 40.0000 ' / in.
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

FINAL SURFACE WORK BY OTHERS (NEW TYPICAL, SECTION)

OPC SITE- WORK TO BE DONE BY OTHERS (TYP)

OPC BOUNDARY (TYP)

SCHOOL ZONE

SPEED LIMIT 20 ARE PRESENT WHEN CHILDREN ARE PRESENT

TOW ZONE

BUS STOP

TOW ZONE

TOW ZONE

S. STONY ISLAND AVE.

SPEED LIMIT 30

4' SOLID WHITE (TYP)

6' SOLID WHITE (TYP)

4' SOLID WHITE (TYP)

6' SOLID WHITE (TYP)

4' SOLID YELLOW (TYP)

4' SOLID YELLOW (TYP)

4' DOUBLE YELLOW (4" GAP)

4' DOUBLE YELLOW (4" GAP)

4' SOLID WHITE (TYP)

6' SOLID WHITE (TYP)

WHITE LETTERS "ONLY" (8' HEIGHT)

WHITE LETTERS "ONLY" (8' HEIGHT)

WHITE LEFT TURN ARROW (8' HEIGHT)

WHITE LEFT TURN ARROW (8' HEIGHT)

LANE LINE, SOLID (TYP)

LANE LINE, SOLID (TYP)

4" SOLID WHITE (TYP)

4" SOLID WHITE (TYP)

4" WHITE (6' LINE WITH 18' GAP), SKIP DASH (TYP)

LANE LINE, SOLID (TYP)

4" WHITE (6' LINE WITH 18' GAP), SKIP DASH (TYP)

4" WHITE (6' LINE WITH 18' GAP), SKIP DASH (TYP)

TOW ZONE

TOW ZONE

S. STONY ISLAND AVE.
EXISTING CONDITIONS

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

PROPOSED CONDITIONS

- FURNISH AND INSTALL POLE AND BASE
EXISTING CONDITIONS

LOCATION KEY

LEGEND (EXISTING AND PROPOSED)
- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

MATCH LINE 14A. R03-50
SEE SHEET PMK-9

MATCH LINE 14A. R03-50
SEE SHEET PMK-9

EXISTING CONDITIONS

JACKSON PARK MOBILITY IMPROVEMENTS

S. CORNELL DR.
PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

◆ REMOVE SIGN PANEL AND SALVAGE
◆ REMOVE SIGN ASSEMBLY AND SALVAGE
◆ FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

FILE NAME: PMK-15

SCALE: 1'' = 20'

DATE: 01/22/2021

REVISIONS

PROJECT NO.: B-7-203

DESIGN: MG

DRAWN: MG

CHECKED: DM

APPROVED: JPA

TOTAL SHEETS

SHEET NO.

PMK-15

DRAWING NO.

CONTRACT NO.

S. CORNELL DR.

S. CORNELL DRIVE

EX CORNELL DRIVE

PAVE STANDARD LANE LINE, SOLID (TYP.)

4" DOUBLE YELLOW (4" GAP)

4" WHITE (TYP.) 12' LINE WITH 8' GAP

6" WHITE DOTTED LINE 12' LINE WITH 8' GAP

6" SOLID WHITE (TYP.)

4' WHITE DIAMONDS 6" GAP SOLID ON 20' CENTERS (TYP.)

WHITE LETTERS "X" 8' HEIGHT (TYP.)

12' YELLOW DIAMONDS 4" GAP SOLID ON 20' CENTERS (TYP.)

18' GAP), SKIP DASH

6" WHITE DOTTED LINE 12' LINE WITH 8' GAP (TYP.)

2.92' RT +45.50

7.75' RT +14.50

12" YELLOW DIAGONALS @45,

ONLY' (8' HEIGHT)

WHITE LETTERS

18' GAP), SKIP DASH

6" WHITE DOTTED LINE 12' LINE WITH 8' GAP (TYP.)

2.92' RT +45.50

7.75' RT +14.50

12" YELLOW DIAGONALS @45,

ONLY' (8' HEIGHT)

WHITE LETTERS

18' GAP), SKIP DASH

6" WHITE DOTTED LINE 12' LINE WITH 8' GAP (TYP.)

2.92' RT +45.50

7.75' RT +14.50

12" YELLOW DIAGONALS @45,

ONLY' (8' HEIGHT)

WHITE LETTERS

18' GAP), SKIP DASH

6" WHITE DOTTED LINE 12' LINE WITH 8' GAP (TYP.)

2.92' RT +45.50

7.75' RT +14.50

12" YELLOW DIAGONALS @45,

ONLY' (8' HEIGHT)

WHITE LETTERS

18' GAP), SKIP DASH

6" WHITE DOTTED LINE 12' LINE WITH 8' GAP (TYP.)

2.92' RT +45.50

7.75' RT +14.50

12" YELLOW DIAGONALS @45,

ONLY' (8' HEIGHT)

WHITE LETTERS

18' GAP), SKIP DASH

6" WHITE DOTTED LINE 12' LINE WITH 8' GAP (TYP.)

2.92' RT +45.50

7.75' RT +14.50

12" YELLOW DIAGONALS @45,

ONLY' (8' HEIGHT)

WHITE LETTERS
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

S. CORNELL DR.
TO CROSS UNDERPASS MUST USE PEDESTRIANS

SPECIAL (PED CROSSING CORNELL DRIVE)
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

WORK DONE BY OTHERS

LOCATION KEY
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

WORK DONE BY OTHERS
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)
- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

WORK DONE BY OTHERS
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

SCALE IN FEET

MIDWAY PLAISANCE (SOUTHERN ROADWAY)

60TH STREET
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

SCALE: 1'' = 20'

E. MIDWAY PLAISANCE (NORTHERN ROADWAY)

PMK-26
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

SCALE IN FEET

63RD STREET

20
0
20
40
10
0
10
20

33' 21'

TOW ZONE
BUS STOP

(2' LINE WITH 6' GAP) (TYP.)
6" WHITE DOTTED LINE
12" DEGREES, SOLID ON 20' CENTERS (TYP.)
12" YELLOW DIAGONALS @ 45°
12" WHITE DIAGONALS @ 30°
12" DOUBLE YELLOW (4" GAP)
LANE LINE, SOLID (TYP.)
6" DOUBLE YELLOW (4" GAP) LANE LINE, SOLID (TYP.)
12" WHITE DOTTED LINE
12" WHITE DIAGONALS @ 30°
EXISTING CONDITIONS

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

PROPOSED CONDITIONS

- EX CORNELL DRIVE

LOCATION KEY

FILE NAME: PMK-35

CONTRACT NO.

PROJECT NO.

DATE: 2/15/2021

TOTAL SHEETS: 4

SHEET NO.

DRAWING NO.

FILE DATE: 2/15/2021

SCALE: 1" = 20'

FILE: P35TO35.PM3

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

JACKSON PARK MOBILITY IMPROVEMENTS

EXISTING & PROPOSED CONDITIONS

E. 63RD ST./E. HAYES DR./S. CORNELL DR.

PAVEMENT MARKING AND SIGNING

EXISTING & PROPOSED CONDITIONS

EXISTING CONDITIONS

PROPOSED CONDITIONS
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

E. HAYES DR.

SCALE: 1''=20'

FILE NAME: PMK-37

PLATE DATE: 2/15/2021

PLATE SCALE: 40.0000' / in.
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

SCALE: 1'' = 20'

FILE NAME:

PLOT DATE:

PLOT SCALE:

40.0000 ' / in.

2/15/2021

TOTAL SHEETS:

SHEET NO.

CONTRACT NO.

PROJECT NO.

DRAWING NO.

PAVEMENT MARKING AND SIGNING
EXISTING & PROPOSED CONDITIONS
S. LAKE SHORE DR.

JACKSON PARK MOBILITY IMPROVEMENTS

CDOT

REVISIONS
NO.

BY

DATE

DESCRIPTION

DATE:

REVISIONS

PROJECT NO.

1/22/2021
EXISTING CONDITIONS

PROPOSED CONDITIONS

LOCATION KEY

LEGEND (EXISTING AND PROPOSED)

REMOVE SIGN PANEL AND SALVAGE
REMOVE SIGN ASSEMBLY AND SALVAGE
INSTALL POLE AND BASE
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND: EXISTING AND PROPOSED

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

59TH STREET INLET BRIDGE

US 41 (LAKE SHORE DRIVE)

PARK CLOSES 11 PM

4" WHITE (6' LINE WITH 18' GAP), SKIP DASH (TYP.)

4" SOLID YELLOW (TYP.)

SPECIAL

(SIGN PANEL)

(SIGN PANEL AND SALVAGE)

(SIGN ASSEMBLY AND SALVAGE)

(SIGN ASSEMBLY AND SALVAGE)

(SIGN ASSEMBLY AND SALVAGE)

(SIGN ASSEMBLY AND SALVAGE)
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

LOCATION KEY

US 41 (LAKE SHORE DRIVE)

PAVEMENT MARKING AND SIGNING
EXISTING & PROPOSED CONDITIONS
S. LAKE SHORE DR.

JACKSON PARK MOBILITY IMPROVEMENTS

FILE NAME: PMK-56.dgn

40.0000 ' / in.

2 /15/2021
EXISTING CONDITIONS

PROPOSED CONDITIONS

LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

FILE NAME: PMK-64

DRAWING NO.

CONTRACT NO.

PROJECT NO.

LOCATION KEY

SPECIAL

INTERNATIONAL 90 TO INDIANA

* SPECIAL

SCALE IN FEET

MUST EXIT RIGHT LANE

Sta 161+11.40

PMK-64
**EXISTING CONDITIONS**

**LOCATION KEY**
- **Sta 526+33.79**
- **Sta 524+42.12**
- **Sta 526+48.53**
- **Sta 526+58.54**
- **Sta 524+53.29**
- **Sta 526+11.11**

**LEGEND (EXISTING AND PROPOSED)**
- **REMOVE SIGN PANEL AND SALVAGE**
- **REMOVE SIGN ASSEMBLY AND SALVAGE**
- **FURNISH AND INSTALL POLE AND BASE**

**SCALE IN FEET**

**FILE NAME:**
- PMK-68

**PLT DATE:**
- 2/15/2021

**SCALE:**
- 40.0000' / in.
LEGEND (EXISTING AND PROPOSED)

- REMOVE SIGN PANEL AND SALVAGE
- REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE

**PROPOSED CONDITIONS**

- RESERVED PARKING
- $100 FINE

**LOCATION KEY**

- Sta 5023+99.33
  - Special, Ped Crossing
  - Lake Shore Dr

- 5024+97.09
  - *Special/Parking
    - Cross Boat Parking

- 5023+32.31
  - *Special/Parking
    - Cross Boat Parking

- 5024-04.74
  - Parking Machine

- 5023+39.98
  - Special/Parking
    - Cross Boat Parking

- 5023+26.2
  - *Special/Parking

- 5025+12.11
  - *Special/Parking

- 5024+84.74
  - *Special/Parking

- Lake Shore Dr to Cross Underpass
  - Must Use Pedestrians

- Lake Shore Dr Ped Crossing
  - *Special

- Sta 5023+99.33
STREET NAMES

<table>
<thead>
<tr>
<th>WAY</th>
<th>STREET NAME, MOUNT</th>
<th>QTY</th>
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<td>Midway Plaisance</td>
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<tr>
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<td>Science Dr</td>
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<td>Richards Dr</td>
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<td>Hayes Dr</td>
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<tr>
<td>Cornel Dr</td>
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QTY: 4
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QTY: 3
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QTY: 2
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QTY: 1
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S T R E E T  N A M E,  M A S T  A R M  M O U N T

QTY: 1
S T R E E T  N A M E,  M A S T  A R M  M O U N T
NOTES:

1. USE PAVEMENT MARKING MATERIALS, WITH A MINIMUM PAVEMENT MARKING OF 90 W/s/s.
   MINIMUM TYPICAL RESISTANCE VALUE OF 60 W/s/s.

2. INSTALLATION OF MARKINGS ON THE ROADWAY SHALL BE PERFORMED IN THREE (3) INSTALLATION SCHEDULES.

TYPICAL BIKE LANE SYMBOLS

DRAWING NO.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO

TYPICAL PAVEMENT MARKINGS

NOTE:
ALL MARKINGS SHALL BE SILVER WHITE UNLESS OTHERWISE NOTED IN THE
PLANS.
CONTINENTAL CROSSWALK = CURRENT STANDARD
WATER TO EXISTING US OR B KID
LOCATING IN THE CENTRAL DIVIDED BUSINESS
DISTRICT WILL HAVE NO WIDE MARKING
PAVEMENT MARKING AND SIGNING

Pavement Marking Details

**Jackson Park Mobility Improvements**

**STA. TO STA.**

**Scale:** 1" = 20'

**Type of Marking** | **Width of Line** | **Pattern** | **Color** | **Spacing (Inches)**
---|---|---|---|---
Centerline on 1 Lane Roadway | 5.000 | SOLID | YELLOW | 0.000
Median on Multi-Lane Divided | 2.000 | SOLID | YELLOW | 0.000
Left Lane | 4.000 | SOLID | RED | 0.000

**U-Turn**

- **Left and Right Turn Lanes**
- **Two Way Left Turn**
- **TYPICAL ISLAND MARKING**
  - **Median with Two-Way Left Turn Lane**
  - **TYPICAL PAINTED MEDIAN MARKING**
    - **Typical Lane and Edge Line Marking**
    - **Typical Crosswalk Marking**
  - **Typical Turn Lane Marking**

**State of Illinois**

**Department of Transportation**

**Contract No.:** PMK-75

**PMK-75**

**POLITICAL DIVISIONS:**

<table>
<thead>
<tr>
<th>DISTRICT ONE</th>
<th>ROUTE</th>
<th>CONTRACT NO.</th>
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<td>20-12</td>
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**Typical Pavement Markings**

- **Pavement Marking and Signing**

**Plots**

- **File Name:** PMK-75
- **Plot Date:** 2/15/2021
- **Plot Scale:** 40.0000' / in.

**Project No.:** B-7-203

**Design:**

- **MEDIAN WITH TWO-WAY LEFT TURN LANE**
- **TYPICAL PAINTED MEDIAN MARKING**
- **TYPICAL CROSSWALK MARKING**
- **TYPICAL TURN LANE MARKING**

**Details:**

- **SECTION:**
- **COUNTY:**
- **TYPICAL MEDIAN MARKING:**

**Construction Notes:**

- **Chapter 600 - Signage**
- **Chapter 700 - Pavement Marking**

**Drawings:**

- **Sheet:** PMK-75
- **Scale:** 1" = 20'

**Dimensions are to be inserted manually unless otherwise shown.**