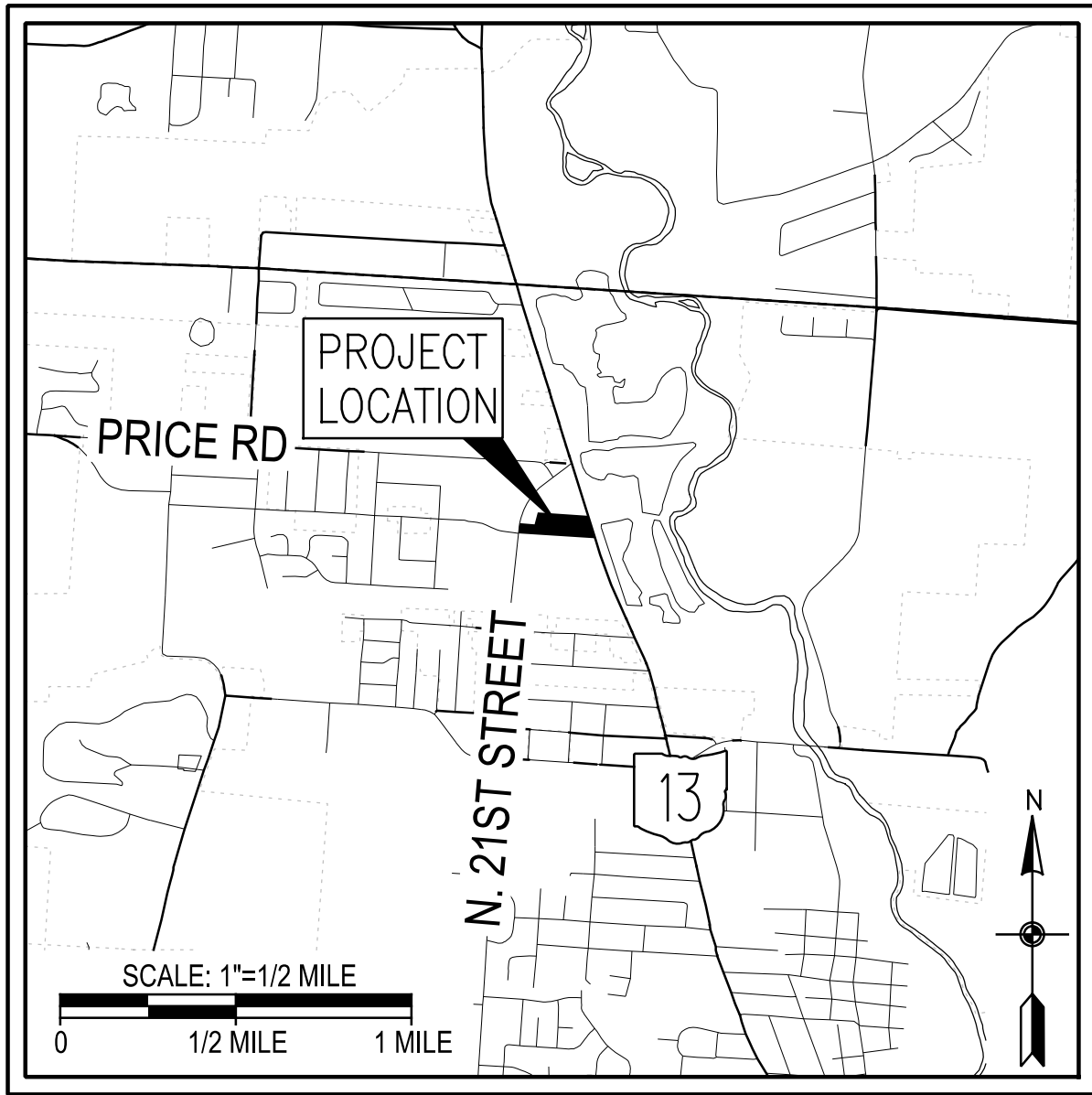
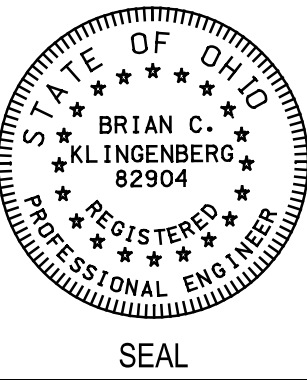


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OWNER  
HEATH-NEWARK-LICKING  
COUNTY PORT AUTHORITY  
RICK PLATT  
851 IRVING WICK DRIVE WEST  
HEATH, OH 43056  
(740) 788-5500



Newark Office:  
88 West Church Street  
Newark, OH 43055  
(740) 345-1921 (ph)  
(740) 345-4994 (fax)  
www.adrinnovation.com

BRIAN C. KLINGENBERG, P.E.  
OHIO PROFESSIONAL ENGINEER #82904

DATE

# HEATH-NEWARK-LICKING COUNTY PORT AUTHORITY STEMFLEX DEVELOPMENT PHASE 1 CONSTRUCTION PLANS SITUATED IN THE CITY OF NEWARK, LICKING COUNTY, OHIO

## INDEX OF SHEETS

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| CITY OF NEWARK<br>STANDARD CONSTRUCTION DRAWINGS |      | OHIO DEPARTMENT OF TRANSPORTATION<br>STANDARD CONSTRUCTION DRAWINGS |         |
|--------------------------------------------------|------|---------------------------------------------------------------------|---------|
| 600-2                                            | 5/96 | CB-2-2A                                                             | 1/20/23 |
|                                                  |      | HW-2.2                                                              | 7/20/18 |
|                                                  |      | BP-3.1                                                              | 1/21/22 |
|                                                  |      |                                                                     |         |
|                                                  |      |                                                                     |         |
|                                                  |      |                                                                     |         |

## PROJECT DATA

|                                                                 |                                                |                |
|-----------------------------------------------------------------|------------------------------------------------|----------------|
| TOTAL AREA:<br>R/W AREA:                                        | 3.224<br>0.000                                 | ACRES<br>ACRES |
| PROJECT EARTH DISTURB AREA:                                     | 3.186                                          | ACRES          |
| ESTIMATED CONTRACTOR (OUTSIDE PROJECT)<br>EARTH DISTURBED AREA: | 0.055                                          | ACRES          |
| NOTICE OF INTENT EARTH<br>DISTURBED AREA:                       | 3.241                                          | ACRES          |
| IMPERVIOUS AREA FOR<br>PRE-CONSTRUCTION SITE:                   | 3.021                                          | ACRES          |
| IMPERVIOUS AREA FOR<br>POST-CONSTRUCTION SITE:                  | 2.183                                          | ACRES          |
| IMMEDIATE RECEIVING WATERS:<br>ULTIMATE RECEIVING WATERS:       | CITY OF NEWARK MS4<br>NORTH FORK LICKING RIVER |                |

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES  
AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE  
RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN.

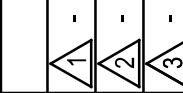
CITY ENGINEER \_\_\_\_\_ DATE

CITY SERVICE DIRECTOR \_\_\_\_\_ DATE

CITY UTILITIES SUPERINTENDENT \_\_\_\_\_ DATE

CITY STORMWATER COORDINATOR \_\_\_\_\_ DATE

REVISIONS



TITLE SHEET

HNLCPA STEMFLEX  
DEVELOPMENT PHASE 1  
CITY OF NEWARK, OHIO

MAR. 30, 2023  
JOB #22-083



# GENERAL NOTES

**SPECIFICATIONS**  
CITY OF NEWARK CONSTRUCTION AND MATERIAL SPECIFICATIONS, DATED JULY, 2018, ALONG WITH THE CURRENT VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CMS SHALL GOVERN THIS PROJECT.

**NOTIFICATION**  
THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AT LEAST 48 HOURS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION.

CITY OF NEWARK ENGINEER: (740) 670-7727  
WATER DEPARTMENT: (740) 670-7962  
SEWER DEPARTMENT: (740) 670-7962  
STORMWATER UTILITY: (740) 670-7762

**GENERAL**  
THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL INSPECTION FEES.

THE CITY OF NEWARK STORMWATER UTILITY SHALL BE CONTACTED PRIOR TO CONSTRUCTION FOR PRE-CONSTRUCTION GRADING INSPECTION.

A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR, DEVELOPER, ENGINEER, AND CITY OF NEWARK WATER & SEWER MUST BE HELD BEFORE CONSTRUCTION BEGINS AND BEFORE SIGNED PLANS ARE ISSUED.

ALL CONSTRUCTION STAKING REQUIRED FOR THIS PROJECT SHALL BE PERFORMED BY OR AT THE DIRECTION OF AN OHIO REGISTERED PROFESSIONAL SURVEYOR OR ENGINEER.

GRANULAR BACKFILL SHALL BE TAMPED WITH A VIBRATORY COMPACTOR IN 12" LAYERS (MAXIMUM).

ALL ADJOINING PROPERTIES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THE SAME OR BETTER CONDITION. THIS INCLUDES GRADING, SEEDING, AND REMOVAL OF EXCESS MATERIALS.

THE CONTRACTOR SHALL CLEAN ALL MUD, DIRT, DEBRIS, ETC. FROM THE PUBLIC RIGHT-OF-WAY LEFT AS A RESULT OF WORK ON THIS PROJECT, DAILY.

WITHIN THE PUBLIC RIGHT-OF-WAY, OR WITHIN SEWER OR WATER EASEMENTS, #57 STONE BEDDING AND BACKFILL SHALL BE USED FROM 6" BELOW THE PIPE TO A MINIMUM OF 1' ABOVE THE PIPE. THE REMAINDER OF THE BACKFILL SHALL BE APPROVED BY THE CITY. THIS APPLIES TO STORM AND SANITARY. TRENCHES UNDER PAVEMENT AND CURBS SHALL HAVE COMPACTIBLE GRANULAR BACKFILL (ITEM 304) FULL DEPTH. FOR ANY REPLACEMENT OR REMOVAL OF WATERLINES, THE BACKFILL SHALL BE ODOT ITEM 703.

IRON PINS MARKING PROPERTY LINES/CORNERS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY A REGISTERED SURVEYOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PERMANENT SEEDING & MULCHING, TOPSOIL, FERTILIZER, AND WATER AS PER ODOT ITEM 659, TO ALL DISTURBED AREAS.

SAFETY REQUIREMENTS: THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PEOPLE (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

A PRE-CONSTRUCTION MEETING MUST BE HELD PRIOR TO THE START OF ANY CONSTRUCTION. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS AND MATERIAL SHEETS FOR REVIEW, A LIST OF ALL SUBCONTRACTORS, A WRITTEN SCHEDULE FOR THE PROJECT, EMERGENCY NUMBERS, AND OTHER ITEMS REQUESTED BY THE ENGINEER, PRIOR TO BEGINNING ANY WORK ON THE PROJECT.

CONTRACTOR MUST NOTIFY THE CITY UTILITIES DEPARTMENT 48 HOURS PRIOR TO CONNECTING TO THE WATER OR SEWER SYSTEM.

**UTILITIES**  
THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UTILITY.

SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (PHONE 800/362-2764-TOLL FREE) AND TO THE OWNERS OF THE UTILITY FACILITIES SHOWN ON THE PLAN WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE REVISED CODE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST 48 HOURS PRIOR TO THE START OF THE CONSTRUCTION.

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS AS IDENTIFIED BY OUPS TICKET NUMBERS B-128601294-00B (MARKINGS) & B-128601295-00B (PLANS).

|                     |                      |              |
|---------------------|----------------------|--------------|
| SANITARY SEWER:     | CITY OF NEWARK       | 740-670-7962 |
| STORMWATER UTILITY: | CITY OF NEWARK       | 740-670-7762 |
| WATER:              | CITY OF NEWARK       | 740-670-7962 |
| CABLE:              | SPECTRUM/TIME WARNER | 740-345-7329 |
| ELECTRIC:           | AEP OHIO             | 740-349-8873 |
| GAS:                | COLUMBIA GAS         | 800-344-4077 |
| GAS:                | ENERGY CO-OP         | 740-344-2102 |
| GAS:                | ENTERPRISE PRODUCTS  | 713-381-6500 |
| TELEPHONE:          | WINDSTREAM           | 740-349-8873 |

**CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES**  
WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

## STORM SEWER

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED AS PER CITY OF NEWARK ORDINANCE NUMBER 91-59.

A NEENAH R-1642, EAST JORDAN 1047, OR EQUIVALENT COMBINATION RING AND LID w/ CITY OF NEWARK SEAL "STORM" SHALL BE USED ON ALL MANHOLES.

THE CONTRACTOR SHALL MAINTAIN SERVICE IN THE EXISTING LINE WHEN CONSTRUCTING THE PROPOSED CONNECTION. CONTRACTOR SHALL NOTIFY CITY OF NEWARK, STORMWATER UTILITY 48 HOURS PRIOR TO CONSTRUCTING ANY CONNECTION TO PERFORM A SITE VISIT.

PIPE MATERIAL:  
PROVIDE CORRUGATED POLYPROPYLENE TRIPLE-WALL PIPE, PER 2019 ODOT SPECIFICATION 707.69, OR REINFORCED CONCRETE PIPE PER 2019 ODOT SPECIFICATION 706.02, FOR SIZES RANGING FROM 30 INCHES TO 60 INCHES IN DIAMETER.

PROVIDE CORRUGATED POLYPROPYLENE DOUBLE-WALL PIPE, PER 2019 ODOT SPECIFICATION 707.65, OR REINFORCED CONCRETE PIPE PER 2019 ODOT SPECIFICATION 706.02, FOR SIZES RANGING FROM 12 INCHES TO 24 INCHES IN DIAMETER.

GLASS FIBER REINFORCED POLYMER MORTAR PIPE, PER 2019 ODOT SPECIFICATION 707.75 MAY BE USED FOR SIZES RANGING FROM 18 INCHES TO 120 INCHES IN DIAMETER.

**BEDDING & BACKFILL:**  
STRUCTURAL BACKFILL, TYPE 3, (CRUSHED LIMESTONE NO. 57) SHALL BE USED AS BEDDING FROM 6" BELOW THE PIPE TO A MINIMUM OF 1' ABOVE THE PIPE. FOR ALL PIPE BENEATH, OR WITHIN 5' OF PAVEMENT, BACKFILL ABOVE THE BEDDING SHALL BE ITEM 304 FOR THE FULL DEPTH OF THE TRENCH. PLACEMENT AND COMPACTION REQUIREMENTS FOR BACKFILL SHALL BE PER 611.06. (SEE STANDARD DRAWING, THIS SHEET)

THE CONTRACTOR WILL BE REQUIRED TO PERFORM MANDREL DEFLECTION TESTS ON POLYPROPYLENE OR POLYETHYLENE CONDUIT LARGER THAN 12" IN DIAMETER. INITIAL MANDREL TESTING SHALL NOT OCCUR UNTIL PIPE HAS BEEN INSTALLED FOR 30 DAYS. DEFLECTIONS OF MORE THAN 5% OF THE PIPE DIAMETER WILL BE EVALUATED FOR CORRECTION MEASURES. CONDUIT WITH DEFLECTIONS OF MORE THAN 7.5% WILL NEED TO BE EXCAVATED AND REPLACED OR RE-INSTALLED, AND RE-TESTED AFTER 30 DAYS.

ALL STORM SEWER CONDUIT AND STRUCTURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL TESTING SHALL BE WITNESSED BY A CITY OF NEWARK REPRESENTATIVE.

**SITE LIGHTING, AS PER PLAN**  
ALL EXISTING POLES SHOWN TO BE REMOVED (AND REUSED) SHALL BE PAINTED BLACK. EXISTING HALOGEN LIGHT FIXTURES TO BE REPLACED WITH "MONGOOSE MEDIUM LED" FIXTURES PER THE DETAILS SHOWN. EXISTING POLES TO BE RELOCATED SHALL BE MOUNTED ON NEW FOUNDATIONS AT THE PROPOSED LOCATIONS SHOWN.

ALL MATERIALS INCLUDING, BUT NOT LIMITED TO LIGHT POLES, LUMINARIES, FOUNDATIONS, CONDUITS, JUNCTION BOXES, WIRE, FUSES, ETC. SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM SPECIAL - STREET LIGHTING, COMPLETE AS PER PLAN.

THE FOLLOWING QUANTITIES ARE PROVIDED FOR ESTIMATING PURPOSED ONLY:  
20 EA. LIGHT POLES REMOVED  
9 EA. LIGHT POLES INSTALLED

**FLAG POLE, RELOCATED, AS PER PLAN**  
CONTRACTOR SHALL REMOVE EXISTING FLAGPOLE AND FOUNDATION, AND INSTALL IN PROPOSED LOCATION. NEW FOUNDATION SHALL MEET OR EXCEED EXISTING FOUNDATION LOAD RATING (DIAMETER AND DEPTH).

**LANDSCAPING, COMPLETE, AS PER PLAN**  
CONTRACTOR SHALL PROVIDE ALL TREES AND LADSCAPING MATERIALS TO COMPLETE THE LANDSPONG REQUIREMENTS AS SHOWN ON THIS PLAN. TREES SHALL BE A MINIMUM 2.5" CALIPER WITH A SHALLOW ROOT SYSTEM TO AVOID IMPACTS TO THE ROOF DRAINS, UNDERDRAINS, & UNDERGROUND STORMWATER STORAGE SYSTEMS.

TREES TRUNKS SHALL BE CLEAR AT LEAST 5' ABOVE GRADE.

PROPOSED PARKING LOT TREES SHALL BE PLACED IN A PLANTING AREA WITH A MINIMUM 190 SF OF MULCHING PER TREE.

THE FOLLOWING QUANTITIES ARE PROVIDED FOR ESTIMATING PURPOSED ONLY:  
16 EA. TREES INSTALLED  
3883 SF. LANDSCAPING/MULCHING

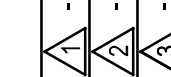
# GENERAL SUMMARY

| NEWARK ITEM | ODOT ITEM | TOTAL | UNIT  | DESCRIPTION                                            |
|-------------|-----------|-------|-------|--------------------------------------------------------|
|             |           |       |       | <b>EARTHWORK</b>                                       |
|             | 201       | 1     | LUMP  | CLEARING AND GRUBBING                                  |
|             | 202       | 12487 | SQ YD | PAVEMENT REMOVED                                       |
|             | 202       | 103   | SQ YD | PAVEMENT REMOVED (CONCRETE PAD)                        |
|             | 202       | 40    | FT    | PIPE REMOVED                                           |
|             | 202       | 1     | EA    | SIGN POST BASE REMOVED                                 |
|             | 203       | 660   | CU YD | EXCAVATION#                                            |
|             | 203       | 900   | CU YD | EMBANKMENT#                                            |
|             | 204       | 250   | CU YD | EXCAVATION OF SUBGRADE (AS DIRECTED)                   |
|             | 204       | 250   | CU YD | GRANULAR EMBANKMENT (AS DIRECTED)                      |
|             | SPECIAL   | 1     | EA    | FLAG POLE RELOCATED, AS PER PLAN                       |
|             |           |       |       |                                                        |
|             |           |       |       | <b>ROADWAY</b>                                         |
|             | 204       | 8159  | SQ YD | SUBGRADE COMPACTION                                    |
|             | 252       | 655   | FT    | FULL DEPTH PAVEMENT SAWING                             |
|             | 301       | 632   | CU YD | ASPHALT CONCRETE BASE PG64-22, (449)                   |
|             | 304       | 1263  | CU YD | AGGREGATE BASE                                         |
|             | 407       | 834   | GAL   | TACK COAT                                              |
|             | 441       | 316   | CU YD | ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22 |
|             | 441       | 316   | CU YD | ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)     |
|             | 608       | 2932  | SQ FT | 4" CONCRETE WALK                                       |
|             | 625       | 273   | FT    | CONDUIT, 3", 725.051                                   |
|             | SPECIAL   | 3     | EA    | 3" LONG SWEEP ELBOWS                                   |
|             |           |       |       |                                                        |
|             |           |       |       | <b>STORM SEWER</b>                                     |
|             | 611       | 76    | FT    | 12" CONDUIT, TYPE D, 706.02                            |
|             | 611       | 2     | EA    | ENDWALL FOR 12" PIPE (HW-2.2)                          |
|             | SPECIAL   | 14    | EA    | DRYWELL, COMPLETE                                      |
|             |           |       |       |                                                        |
|             |           |       |       | <b>TRAFFIC CONTROL</b>                                 |
|             | 630       | 44    | FT    | GROUND MOUNTED SUPPORT, No. 3 POST                     |
|             | 630       | 9     | SQ FT | SIGN, FLAT SHEET                                       |
|             | 642       | 1366  | FT    | PARKING LOT STALL MARKING                              |
|             | 642       | 4     | EA    | HANDICAP SYMBOL                                        |
|             | 642       | 302   | FT    | DIAGONAL LINE                                          |
|             | SPECIAL   | 16    | EA    | PARKING BLOCK                                          |
|             |           |       |       |                                                        |
|             |           |       |       | <b>EROSION CONTROL</b>                                 |
|             | 659       | 585   | CU YD | TOPSOIL, FURNISHED AND PLACES                          |
|             | 659       | 5791  | SQ YD | SEEDING AND MULCHING                                   |
|             | SPECIAL   | 1     | EA    | CONCRETE WASHOUT                                       |
|             | SPECIAL   | 16    | EA    | INLET PROTECTION                                       |
|             | SPECIAL   | 291   | FT    | PERIMETER FILTER FABRIC FENCE                          |
|             | SPECIAL   | 1     | EA    | STABILIZED CONSTRUCTION ENTRANCE                       |
|             |           |       |       |                                                        |
|             |           |       |       | <b>MISCELLANEOUS</b>                                   |
|             | SPECIAL   | 1     | LUMP  | SITE LIGHTING, AS PER PLAN                             |
|             | SPECIAL   | 1     | LUMP  | LANDSCAPING, COMPLETE                                  |
|             | 103       | 1     | LUMP  | PREMIUM FOR CONTRACT PERFORMANCE BOND                  |
|             | 614       | 1     | LUMP  | MAINTAINING TRAFFIC, AS PER PLAN                       |
|             | 623       |       | LUMP  | CONSTRUCTION LAYOUT STAKES AND SURVEYING               |
|             | 624       | 1     | LUMP  | MOBILIZATION                                           |
|             | SPECIAL   |       | LUMP  | AS-BUILT DOCUMENTS                                     |
|             |           |       |       |                                                        |

# EXCAVATION AND EMBANKMENT QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY. QUANTITIES PROVIDED ARE CALCULATED FROM ELEVATIONS EXISTING AT THE TIME THE TOPOGRAPHIC SURVEY WAS PERFORMED, TO THE PROPOSED SURFACE ELEVATIONS. NO ADJUSTMENTS HAVE BEEN MADE FOR PAVEMENT, FOOTERS, BUILDING PADS, TOPSOIL, UNSUITABLE SOILS, UTILITY INSTALLATION SPOILS, ETC.



REVISIONS



GENERAL NOTES AND  
GENERAL SUMMARY

HNLCPA STEMFLX  
DEVELOPMENT PHASE 1  
CITY OF NEWARK, OHIO

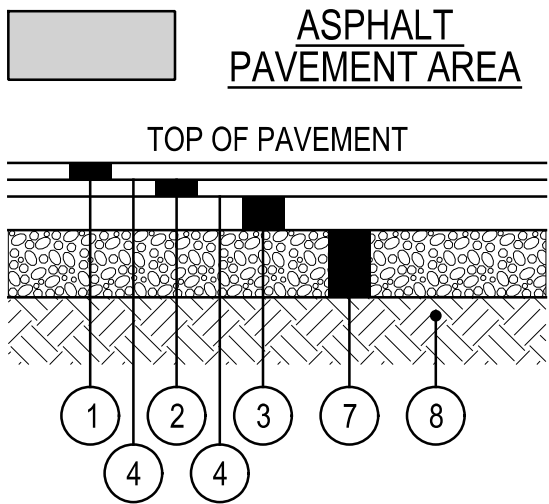
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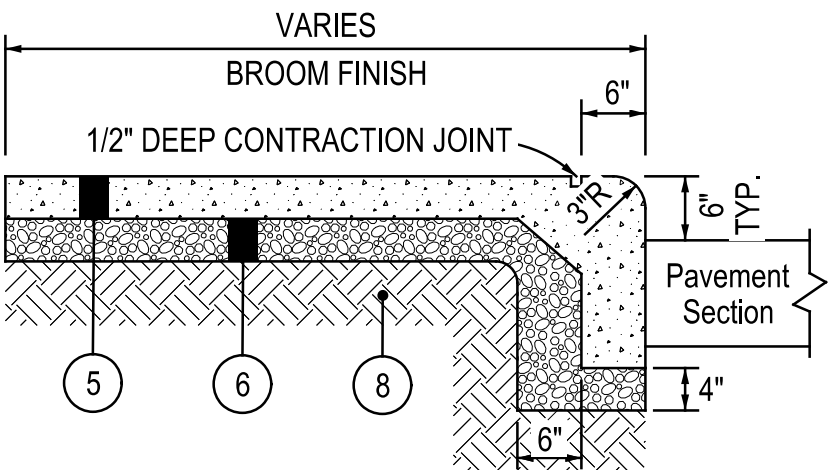
# CONSTRUCTION DETAILS

## PAVEMENT DETAIL LEGEND

- 1 ITEM 441 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22
- 2 ITEM 441 1 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)
- 3 ITEM 301 3" ASPHALT CONCRETE BASE PG64-22, (449)
- 4 ITEM 407 NON-TRACKING TACK COAT
- 5 ITEM 608 4" CONCRETE WALK
- 6 ITEM 304 4" AGGREGATE BASE
- 7 ITEM 304 6" AGGREGATE BASE
- 8 ITEM 204 SUBGRADE COMPACTION



## STANDARD COMBINED CURB AND WALK DETAIL

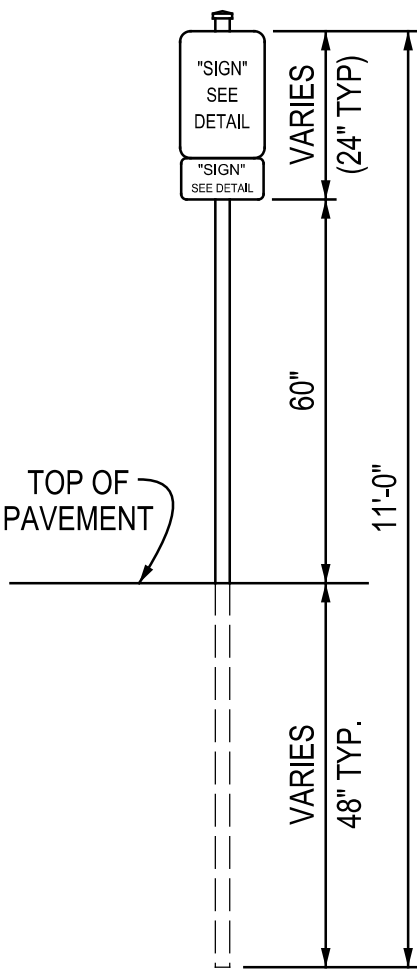


STANDARD CONCRETE WALK WHERE CURB IS NOT PRESENT SHALL MATCH THE BUILD-UP OF THIS DETAIL.

PAYMENT FOR THE SIDEWALK PORTION OF THIS DETAIL SHALL BE INCLUDED WITH ITEM 608 - 4" CONCRETE WALK.

PAYMENT FOR THE CURB PORTION OF THIS DETAIL SHALL BE INCLUDED WITH ITEM 609 - CURB, TYPE 6 (STRAIGHT, 18").

## HANDICAP SIGN DETAIL



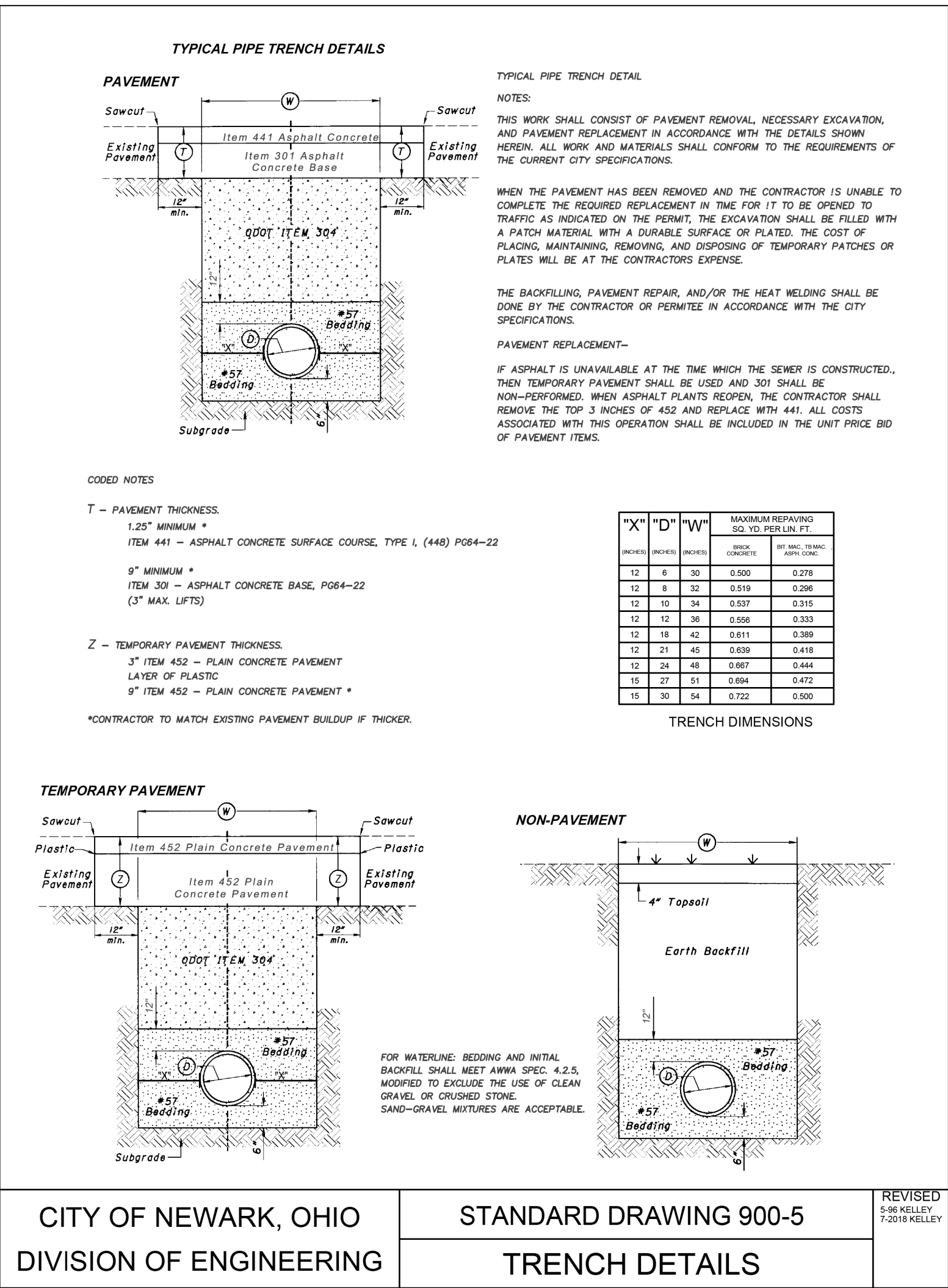
R7-8-12  
R7-8A-12  
R7-H8B-12

VAN ACCESSIBLE  
HANDICAP SPACE  
(2 PROVIDED)



R7-8-12  
R7-H8B-12

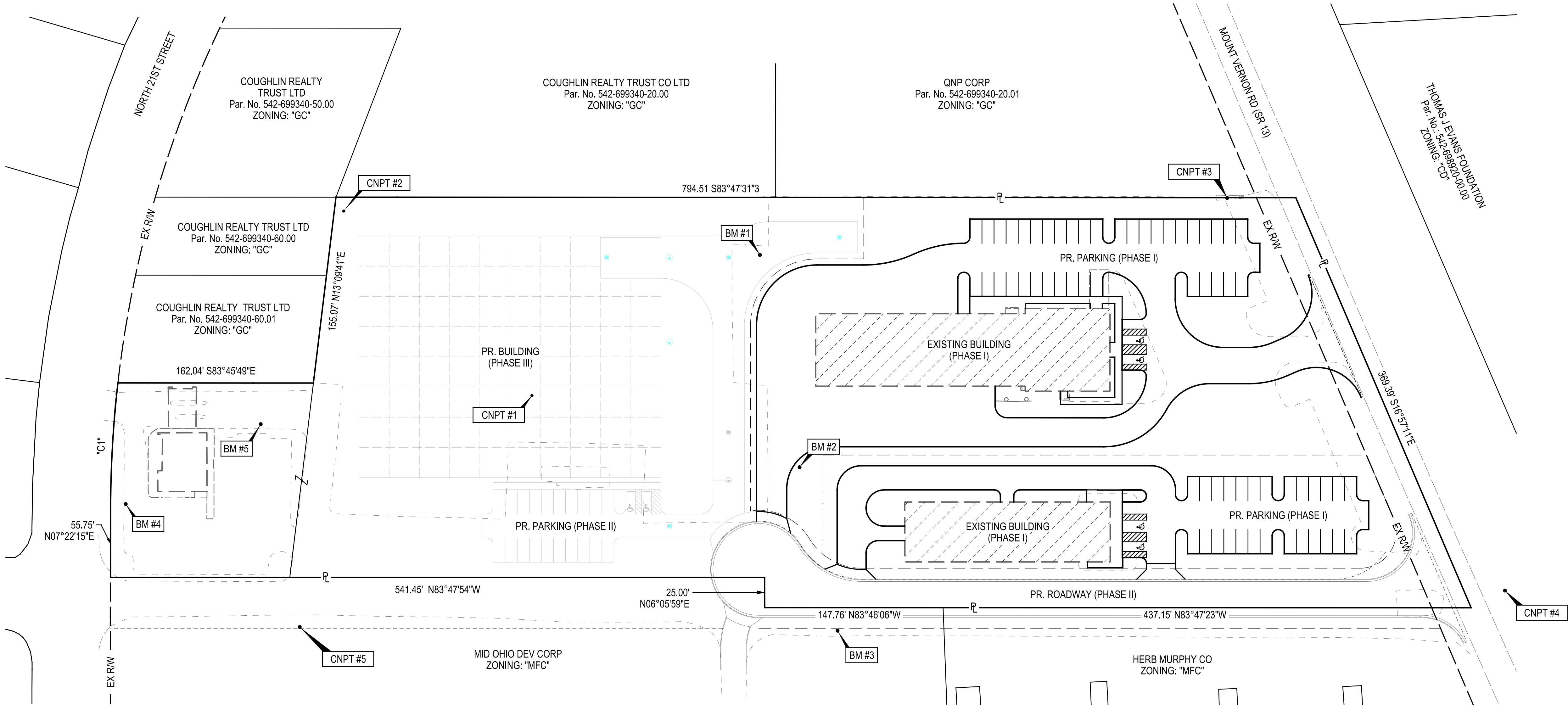
STANDARD HANDICAP  
SPACE  
(2 PROVIDED)



|                                                 |                                          |                                         |
|-------------------------------------------------|------------------------------------------|-----------------------------------------|
| CITY OF NEWARK, OHIO<br>DIVISION OF ENGINEERING | STANDARD DRAWING 900-5<br>TRENCH DETAILS | REVISED<br>5-86 KELLEY<br>7-2018 KELLEY |
|-------------------------------------------------|------------------------------------------|-----------------------------------------|



SCHEMATIC PLAN



SITE INFORMATION:

OWNER: HEATH-NEWARK-LICKING COUNTY PORT AUTHORITY  
ADDRESS: 1401-1425 MOUNT VERNON ROAD  
1760 N. 21ST STREET  
AUDITORS PAR. NO.: 054-269934-03.000  
054-269934-00.002  
054-269934-00.003  
SITE AREA: 7.274 Ac.  
BUILDING AREA: 23,680 SQ. FT. (EXISTING)  
48,250 SQ. FT. (PROPOSED)  
71,930 SQ. FT. (TOTAL)

ZONING INFORMATION:

EXISTING ZONING: GC - GENERAL COMMERCIAL DISTRICT  
EXISTING USE: MANUFACTURING  
PROPOSED ZONING: LI - LIMITED INDUSTRIAL  
PROPOSED USE: RESEARCH & PRODUCT DEVELOPMENT  
BUILDING SETBACKS: 50' FRONT  
25' SIDE (25' TOTAL)  
40' REAR

VARIANCE REQUESTED:

VARIANCE FROM SECTION 1266.08, LOT SETBACKS. PROPOSED DEVELOPMENT PHASE I WOULD PROVIDE 5' SIDE SETBACK FROM THE FUTURE RIGHT-OF-WAY CREATED IN PHASE II AND PROPOSED DEVELOPMENT PHASE III WOULD PROVIDE 15' REAR SETBACK.

FLOOD INFORMATION:

THE PROPERTY FALLS WITHIN THE LIMITS OF FLOOD ZONE "X" AS SHOWN ON FIRM MAP No. 39089C0331J, DATED MARCH 16, 2015.

SURVEY INFORMATION

SURVEY INFORMATION BASED ON FIELD OBSERVATION BY SMART SERVICES, INC.

FOR MORE INFORMATION CONTACT:  
SMART SERVICES, INC.  
88 W CHURCH STREET  
NEWARK, OH 43055  
(740) 345-4700

CONTROL POINT INFORMATION:

| POINT   | NORTHING   | EASTING     | ELEV.  | DESCRIPTION                  |
|---------|------------|-------------|--------|------------------------------|
| CNPT #1 | 763462.389 | 1989473.494 | 879.84 | 5/8" REBAR W/ CAP "TRAVERSE" |
| CNPT #2 | 763631.123 | 1989335.145 | 881.34 | 5/8" REBAR W/ CAP "TRAVERSE" |
| CNPT #3 | 763562.899 | 1990063.379 | 878.56 | 5/8" REBAR W/ CAP "TRAVERSE" |
| CNPT #4 | 763214.871 | 1990256.894 | 877.88 | 5/8" REBAR W/ CAP "TRAVERSE" |
| CNPT #5 | 763292.708 | 1989261.648 | 880.06 | 5/8" REBAR W/ CAP "TRAVERSE" |
| BM #1   | 763557.8   | 1989673.7   | 880.10 | MAG NAIL SET IN ASPHALT      |
| BM #2   | 763379.5   | 1989687.3   | 879.02 | MAG NAIL SET IN ASPHALT      |
| BM #3   | 763241.6   | 1989704.0   | 878.92 | MAG NAIL SET IN ASPHALT      |
| BM #4   | 763409.5   | 1989129.5   | 879.88 | MAG NAIL SET IN ASPHALT      |
| BM #5   | 763463.2   | 1989247.7   | 880.76 | MAG NAIL SET IN ASPHALT      |

BOUNDARY CURVE TABLE

| No. | DELTA     | RADIUS   | LENGTH  | Ch. BEARING | Ch. DISTANCE |
|-----|-----------|----------|---------|-------------|--------------|
| C1  | 02°50'20" | 2126.10' | 105.34' | N08°47'25"E | 105.33'      |



SHEET LEGEND

ASPHALT PAVEMENT AREA

STANDARD COMBINED CURB AND WALK AREA

\*

= 5' RADIUS

SEE SHEET 3 FOR BUILD UP DETAILS

A

CONTRACTOR TO SAW-CUT AND REMOVE EXISTING PAVEMENT AND INSTALL ASPHALT WEDGE AS NECESSARY TO PROVIDE A SMOOTH TRANSITION.

B

CONTRACTOR TO REMOVE EXISTING GRASS ISLAND AND REPLACE WITH ASPHALT PAVEMENT.

# SITE PLAN

The main site plan illustrates the layout of the development. It features two existing buildings: 'EXISTING BUILDING 1425 MT. VERNON ROAD (PHASE I)' and 'EXISTING BUILDING 1401 MT. VERNON ROAD (PHASE I)'. Surrounding these buildings are various proposed features including parking lots (e.g., 'PR. PARKING (22 SPACES)', 'PR. PARKING (16 SPACES)', 'PR. PARKING (26 SPACES)'), parking blocks, and individual handicap parking spaces (labeled 1D through 15D). The plan also shows proposed roadways (PHASE II), future right-of-way (R/W) lines, and future public utility (P/U) lines. Numerous setbacks are indicated, such as '25' BLDG SETBACK', '40' BLDG SETBACK', and '5' BLDG SETBACK'. Utility lines for gas, water, and sewer are shown, along with existing and proposed flag poles and phone conduits. The plan includes detailed dimensions for setbacks, lot widths, and building footprints.

**HANDICAP PARKING DETAIL C**  
SCALE: 1" = 10'-0"

**HANDICAP PARKING DETAIL D**  
SCALE: 1" = 10'-0"

These details show the specific dimensions and symbols for handicap parking spaces. Detail C shows a space with a 20' width and 8' depth, with a 5' depth for the wheelchair area. Detail D shows a similar space with a 20' width and 8' depth, with a 5' depth for the wheelchair area. Both details include the international symbol of access.

0 20 40

HORIZONTAL SCALE IN FEET

DRAWN

CHECKED

REVIEWED

DATE

ADR

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REVISIONS

| NO. | DESCRIPTION       | DATE       |
|-----|-------------------|------------|
| 1   | ISSUED FOR PERMIT | 03/30/2023 |

SITE PLAN

HNLCPA STEMFLX  
DEVELOPMENT PHASE 1  
CITY OF NEWARK, OHIO

MAR. 30, 2023

JOB #22-083

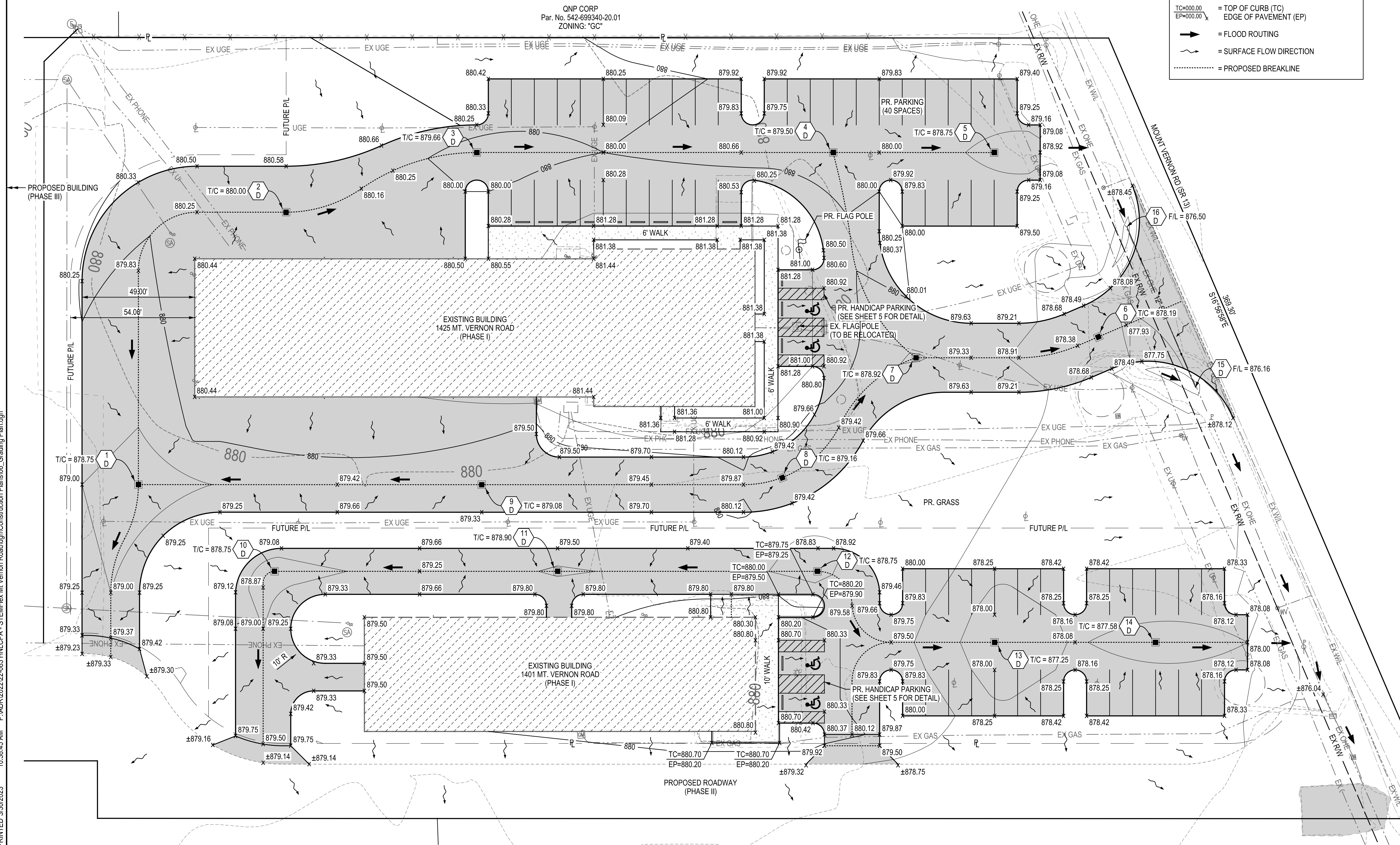
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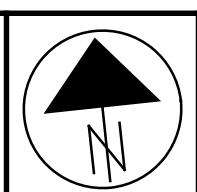


# GRADING PLAN



**LEGEND:**

- 000 --- = EXISTING CONTOUR
- 000 — = PROPOSED CONTOUR
- x 000.00 = PROPOSED SPOT GRADE ELEVATION
- $\frac{TC=000.00}{EP=000.00}$  x = TOP OF CURB (TC)  
EDGE OF PAVEMENT (EP)
-  = FLOOD ROUTING
-  = SURFACE FLOW DIRECTION
- ..... = PROPOSED BREAKLINE



|                 |
|-----------------|
| DRAWN<br>AJM    |
| CHECKED<br>BJW  |
| REVIEWED<br>BCK |

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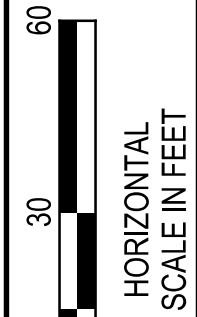
## REVISIONS

# GRADING PLAN

HNLCPA STEM FLEX  
DEVELOPMENT PHASE 1  
CITY OF NEWARK, OHIO

|               |
|---------------|
| MAR. 30, 2023 |
| JOB #22-083   |





|              |                |                 |
|--------------|----------------|-----------------|
| DRAWN<br>AJM | CHECKED<br>BJW | REVIEWED<br>BCK |
|--------------|----------------|-----------------|

**ADR**  
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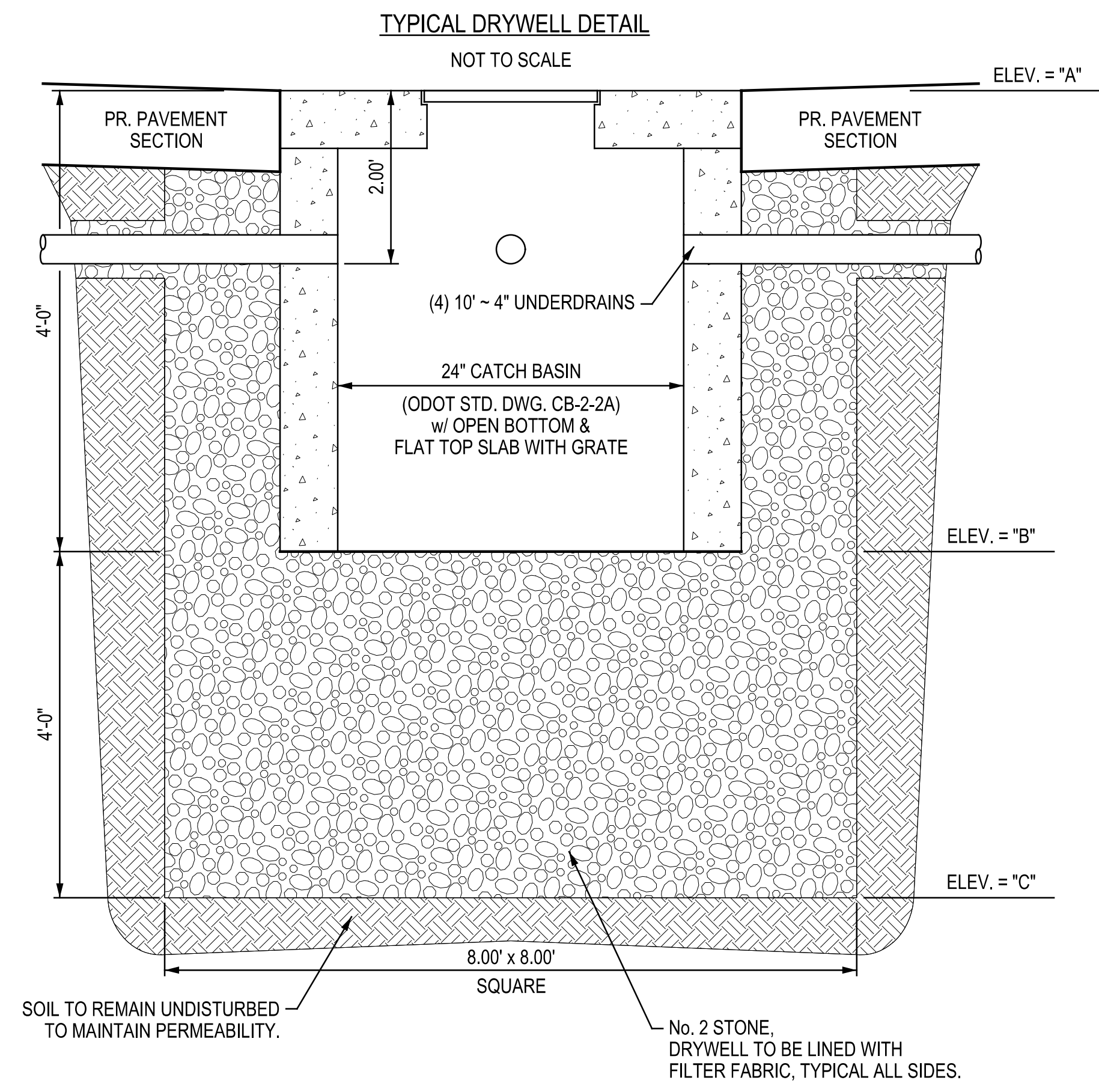
## REVISIONS

## STORMWATER MANAGEMENT DETAILS

HNLCPA STEM FLEX  
DEVELOPMENT PHASE 1  
CITY OF NEWARK, OHIO

|               |
|---------------|
| MAR. 30, 2023 |
| JOB #22-083   |

7  
11



TYPICAL DRYWELL DETAIL  
NOT TO SCALE

NOT TO SCALE

ELEV. = "A"

PR. PAVEMENT SECTION

PR. PAVEMENT SECTION

2.00'

(4) 10' ~ 4" UNDERDRAINS

24" CATCH BASIN  
(ODOT STD. DWG. CB-2-2A)  
w/ OPEN BOTTOM & FLAT TOP SLAB WITH GRATE

4'-0"

4'-0"

ELEV. = "B"

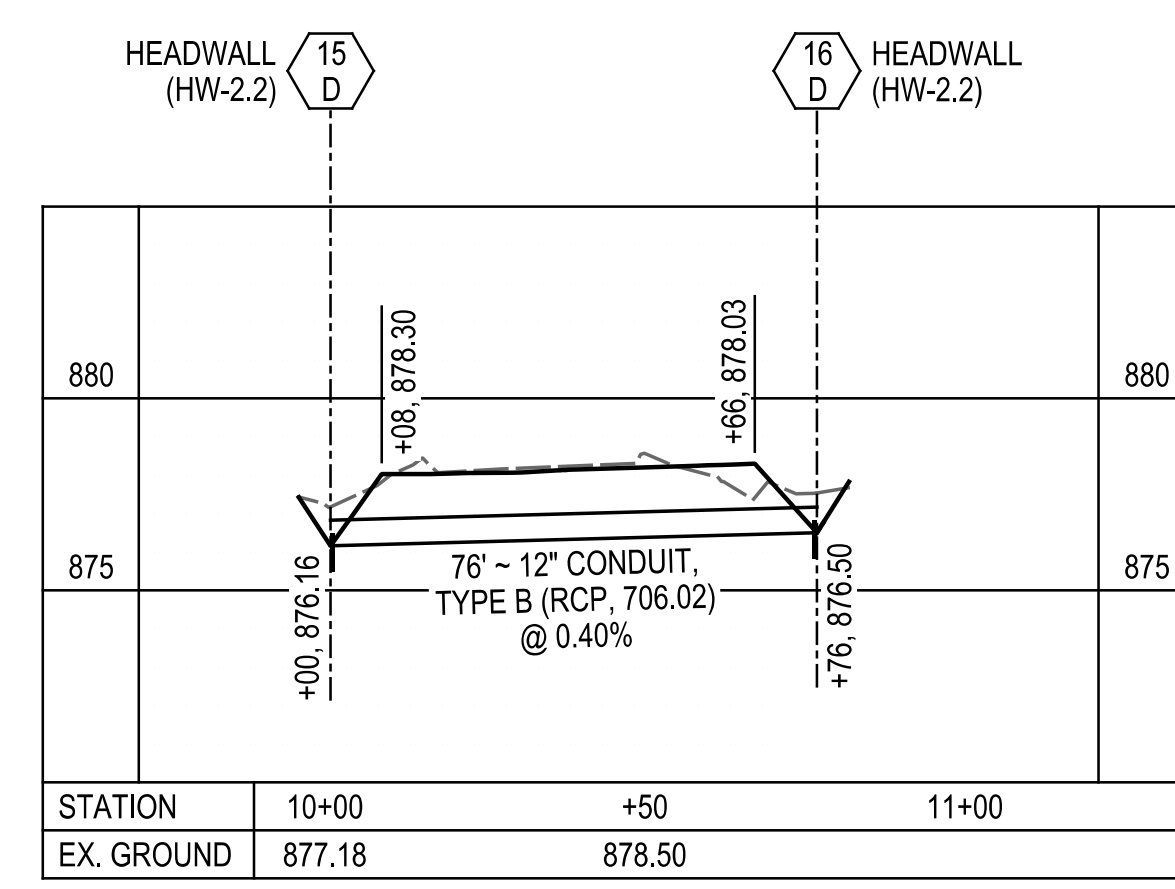
ELEV. = "C"

8.00' x 8.00'  
SQUARE

SOIL TO REMAIN UNDISTURBED  
TO MAINTAIN PERMEABILITY.

No. 2 STONE,  
DRYWELL TO BE LINED WITH  
FILTER FABRIC, TYPICAL ALL SIDES.

### STORM CULVERT DETAIL



| DRYWELL BASIN ID | FLOOD ROUTING ELEVATION | TOP OF STRUCTURE<br>("A") | BOTTOM OF MANHOLE<br>("B") | BOTTOM OF DRYWELL<br>("C") |
|------------------|-------------------------|---------------------------|----------------------------|----------------------------|
| 1D               | 879.33                  | 878.75                    | 874.75                     | 870.75                     |
| 2D               | 880.25                  | 880.00                    | 876.00                     | 872.00                     |
| 3D               | 880.00                  | 879.66                    | 875.66                     | 871.66                     |
| 4D               | 879.75                  | 879.50                    | 875.50                     | 871.50                     |
| 5D               | 878.92                  | 878.75                    | 874.75                     | 870.75                     |
| 6D               | N/A                     | 878.19                    | 874.19                     | 870.19                     |
| 7D               | 879.33                  | 878.92                    | 874.92                     | 870.92                     |
| 8D               | 879.42                  | 879.16                    | 875.16                     | 871.16                     |
| 9D               | 879.42                  | 879.08                    | 875.08                     | 871.08                     |
| 10D              | 879.25                  | 878.75                    | 874.75                     | 870.75                     |
| 11D              | 879.25                  | 878.90                    | 874.90                     | 870.90                     |
| 12D              | 879.30                  | 878.75                    | 874.75                     | 870.75                     |
| 13D              | 878.08                  | 877.25                    | 873.25                     | 869.25                     |
| 14D              | 878.00                  | 877.58                    | 873.58                     | 869.58                     |



# LANDSCAPING PLAN

## SHEET LEGEND

-  EXISTING TREE  
 PROPOSED TREE  
 LANDSCAPING / MULCHING AREA

LANDSCAPING NOTES:

TREES SHALL BE A MINIMUM 2.5" CALIPER WITH A SHALLOW ROOT SYSTEM TO AVOID IMPACTS TO THE ROOF DRAINS, UNDERDRAINS, & UNDERGROUND STORMWATER STORAGE SYSTEMS.

### PLANTING SCHEDULE:

## LANDSCAPING TREES

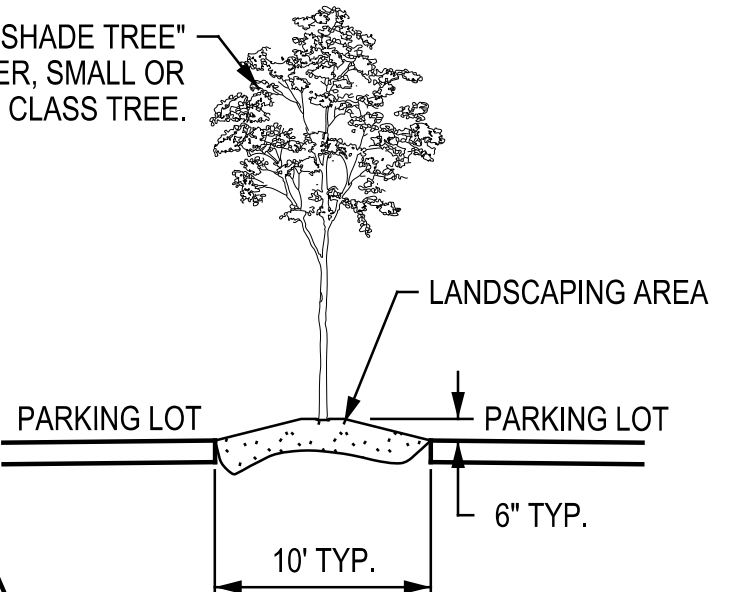
| <u>ID</u> | <u>QTY.</u> | <u>COMMON (BOTANICAL NAME)</u> | <u>SIZE</u> |
|-----------|-------------|--------------------------------|-------------|
| "RM"      | 16          | RED MAPLE<br>(Acer Rubrum)     | 2.5" CAL.   |

### CALCULATIONS

| DESCRIPTION       | REQUIRED/<br>ALLOWED   | PROVIDED            |
|-------------------|------------------------|---------------------|
| BUILDING COVERAGE | 79,214 SF<br>(25% MAX) | 23,677 SF<br>(7.5%) |
| GREENSPACE        | 11,719 SF<br>(MIN)     | 152,517 SF          |
| PLANTINGS (TREES) | -                      | 16                  |
| LANDSCAPE AREA    | -                      | 3,883 SF            |

### TYPICAL PARKING ISLAND LANDSCAPE AREA

"PARKING LOT SHADE TREE"  
2.5" CALIPER, SMALL OR  
MEDIUM CLASS TREE.



HORIZONTAL  
SCALE IN FEET

|          |
|----------|
| AJMI     |
| CHECKED  |
| BJW      |
| REVIEWED |
| BCK      |

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|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

LANDSCAPING PLAN

LINE OF A STEMI LEAK  
DEVELOPMENT PHASE 1  
CITY OF NEWARK, OHIO

AR. 30, 2023  
OB #22-083

$$\frac{8}{11}$$
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PRINTED 4/7/2023



LIGHTING NOTES:

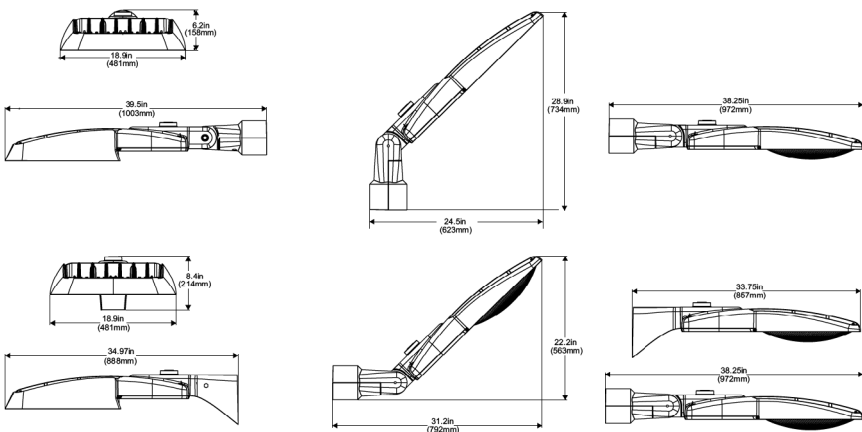
A ALL EXISTING POLES SHOWN TO BE REMOVED (AND REUSED) SHALL BE PAINTED BLACK. EXISTING HALOGEN LIGHT FIXTURES TO BE REPLACED WITH "MONGOOSE MEDIUM LED" FIXTURES PER THE DETAILS SHOWN. EXISTING POLES TO BE RELOCATED SHALL BE MOUNTED ON NEW FOUNDATIONS AT THE PROPOSED LOCATIONS SHOWN.



MGLEDM  
Mongoose Medium LED



DIMENSIONAL DATA



HoloPhane | 3825 Columbus Rd., Granville, OH 43023 | Phone: 866-HOLOPHANE | www.holophane.com  
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MGLEDM  
Mongoose Medium LED

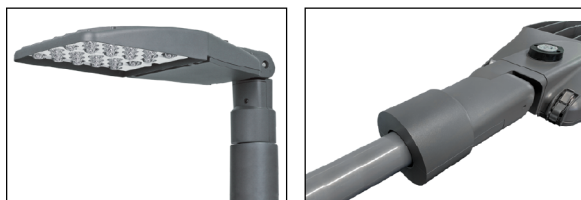
ORDERING INFORMATION

| Series                 | LED performance package                                                                                                                                      | Color temperature                                     | Voltage                                                                 | Optics                                                                                                                                                                                                                                     |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MGLEDM Mongoose Medium | P1 15,400 Lumens<br>P2 19,000 Lumens<br>P3 22,400 Lumens<br>P4 25,800 Lumens<br>P5 28,900 Lumens<br>P6 31,900 Lumens<br>P7 35,100 Lumens<br>P8 38,000 Lumens | 30K 3,000 K CCT<br>40K 4,000 K CCT<br>50K 5,000 K CCT | MDLT Auto-sensing voltage (120/190/277)<br>347 347 Volt<br>480 480 Volt | AG Area with Reflector<br>AR Area<br>FG Forward Throw with Reflector<br>FT Forward Throw<br>MG Medium Roadway with Reflector<br>MR Medium Roadway<br>NR Narrow Roadway with Reflector<br>WR Wide Roadway with Reflector<br>WW Wide Roadway |

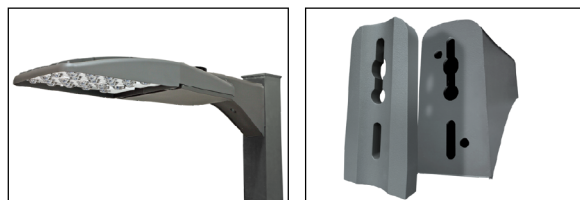
| Mounting                                                         | Super Durable Paint                                                                                                                                                    | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VH Vertical Tenon/<br>Horizontal Arm<br>UN Universal (Rd. & Sq.) | GRSD Vitracat Gray<br>GRSD Vitracat Graphite<br>BKSD Vitracat Black<br>GNKD Vitracat Green<br>WHSD Vitracat White<br>BZSD Vitracat Bronze<br>DBSD Vitracat Dark Bronze | Adjustable/Programmable Options<br>AO Field Adjustable Output<br>Control Options<br>PCLL DTL Extreme Long Life Tasklight Photocontrol for Solid State (30 year rated life)<br>PCSS OSS Premium Tasklight Photocontrol for Solid State (10 year rated life)<br>POC2* Programmable occ. and daylight sensor, for mounting applications up to 20'<br>POC4* Programmable occ. and daylight sensor, for mounting applications between 20' & 40'<br>RSDGR Night Air Occ. and daylight sensor |

| Accessories: Order as separate catalog number. |                                                    |
|------------------------------------------------|----------------------------------------------------|
| Wire Guard Kit<br>MGLEDM WNG                   | Mongoose Medium Wire Guard Kit                     |
| Light Trespass Shield<br>MGLEDM LTS            | Mongoose Medium Light Trespass Shield              |
| Uplight Skirt<br>MGLEDM US GRSD                | Mongoose Medium Uplight Skirt, Vitacat Gray        |
| MGLEDM US GHSD                                 | Mongoose Medium Uplight Skirt, Vitacat Graphite    |
| MGLEDM US BKSD                                 | Mongoose Medium Uplight Skirt, Vitacat Black       |
| MGLEDM US GNKD                                 | Mongoose Medium Uplight Skirt, Vitacat Green       |
| MGLEDM US WHSD                                 | Mongoose Medium Uplight Skirt, Vitacat White       |
| MGLEDM US BZSD                                 | Mongoose Medium Uplight Skirt, Vitacat Bronze      |
| MGLEDM US DBSD                                 | Mongoose Medium Uplight Skirt, Vitacat Dark Bronze |
| House Side Shield<br>MGLEDM HSS                | Mongoose Medium House Side Shield                  |

MOUNTING OPTIONS



Vertical Tenon/Horizontal Arm Mount - VH  
Attaches to 2" vertical tenon or horizontal arm (2 3/8" O.D.)

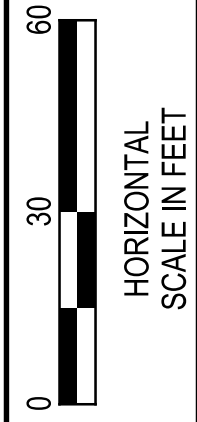
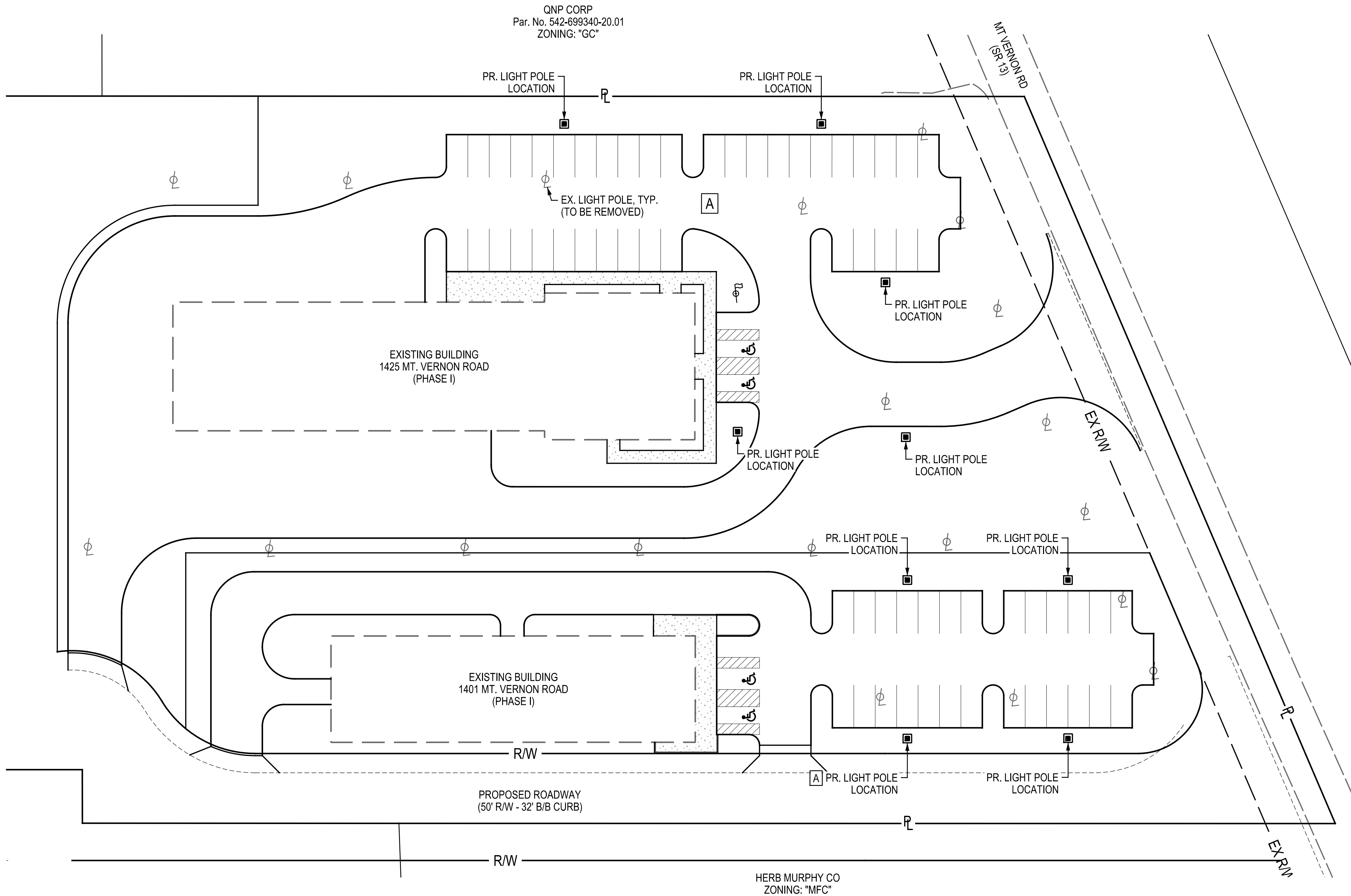


Universal Mount - UN  
Attaches to square or 3" minimum round pole

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MGLEDM  
Page 2 of 11

# LIGHTING PLAN



| DRAWN | CHECKED | REVIEWED |
|-------|---------|----------|
| AM    | BW      | BCK      |



| REVISIONS |
|-----------|
| 1         |
| 2         |
| 3         |

## LIGHTING PLAN

HNLCPA STEMFLEX DEVELOPMENT  
CITY OF NEWARK, OHIO

MAR. 30, 2023  
JOB #22-083



STORM WATER POLLUTION PREVENTION PLAN

| NOTICE OF INTENT |             | CONTRACTOR SIGNATURES |      |
|------------------|-------------|-----------------------|------|
| OEPA NOI:        | 4GC09176*AG |                       |      |
| SUBMITTAL DATE:  | 03/28/2023  | CONTRACTOR            | DATE |
| APPROVAL DATE:   | 03/29/2023  | SUBCONTRACTOR         | DATE |

CONTRACTOR REQUIREMENTS

CONTRACTOR RESPONSIBILITY: DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE MOST RECENT EDITION OF THE S.C.S. MANUAL "WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREAS." THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM SITE ALONG WITH PROPER MAINTENANCE, AND INSPECTION BY QUALIFIED INSPECTION PERSONNEL IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

- THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING ITEMS:
1. CONTRACTOR SHALL SUBMIT STORM WATER POLLUTION PREVENTION PLAN TO THE CITY OF NEWARK PRIOR TO CONSTRUCTION.
  2. NOTICE-OF-INTENT (NOI) MUST BE SUBMITTED TO THE OHIO EPA 21 DAYS PRIOR TO CONSTRUCTION.
  3. CO-PERMITTEE NOTICE-OF-INTENT MUST BE SUBMITTED TO THE OHIO EPA PRIOR TO CONSTRUCTION, (SEE BELOW)
  4. NOTICE-OF-TERMINATION (NOT) MUST BE SUBMITTED TO THE OHIO EPA AFTER CONSTRUCTION.
  5. STORMWATER POLLUTION PREVENTION PLAN AND NOI MUST BE POSTED ON SITE AT ALL TIMES.

THE CO-PERMITTEE NOTICE OF INTENT (NOI) APPLICATION FORM IS USED BY OTHER OPERATORS IDENTIFIED BY THE INITIAL PERMITTEE TO REQUEST SHARED COVERAGE UNDER THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT (CGP). AS DEFINED IN PART VII.O OF THE CGP, AN "OPERATOR" IS ANY PARTY THAT HAS OPERATIONAL CONTROL OVER CONSTRUCTION PLANS AND SPECIFICATIONS OR HAS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT A PROJECT WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWP3) FOR THE SITE COVERED BY THE CGP. THE APPLICANT MUST CERTIFY THEIR INTENTION TO COMPLY WITH THE CGP WHEN SUBMITTING THE COMPLETED CO-PERMITTEE NOI. THERE IS NO FEE FOR THIS APPLICATION FORM.

CONSTRUCTION SEQUENCING AND NOTES

PRIOR TO GRADING OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF THE BARRIER DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATION IN CERTAIN AREAS. HOWEVER, THE BARRIER SHALL BE IN PLACE IN THE EVENING OR DURING ANY INCLEMENT WEATHER.

CONTRACTOR SHALL PLACE A STABILIZED CONSTRUCTION ENTRANCE AT THE BEST LOCATION TO PREVENT SEDIMENT FROM BEING TRACKED FROM SITE. USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT, AT A 6" MINIMUM THICKNESS. THE ENTRANCE SHALL MEET THE DIMENSIONS SHOWN IN THE DETAIL IN THIS PLAN. EQUIPMENT WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

THE CONTRACTOR SHALL PLACE INLET PROTECTION FOR THE EROSION CONTROL IMMEDIATELY AFTER CONSTRUCTION OF THE CATCH BASINS OR INLETS.

THE CONTRACTOR SHALL MAINTAIN AND REPLACE THE BMPs AS NEEDED TO KEEP THEM OPERATING IN PROPER FUNCTION. ALL SILT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO 1/2 THE HEIGHT OF THE PERIMETER CONTROL FENCE, OR IF IT COVERS ANY PORTION OF THE INLET PROTECTION.

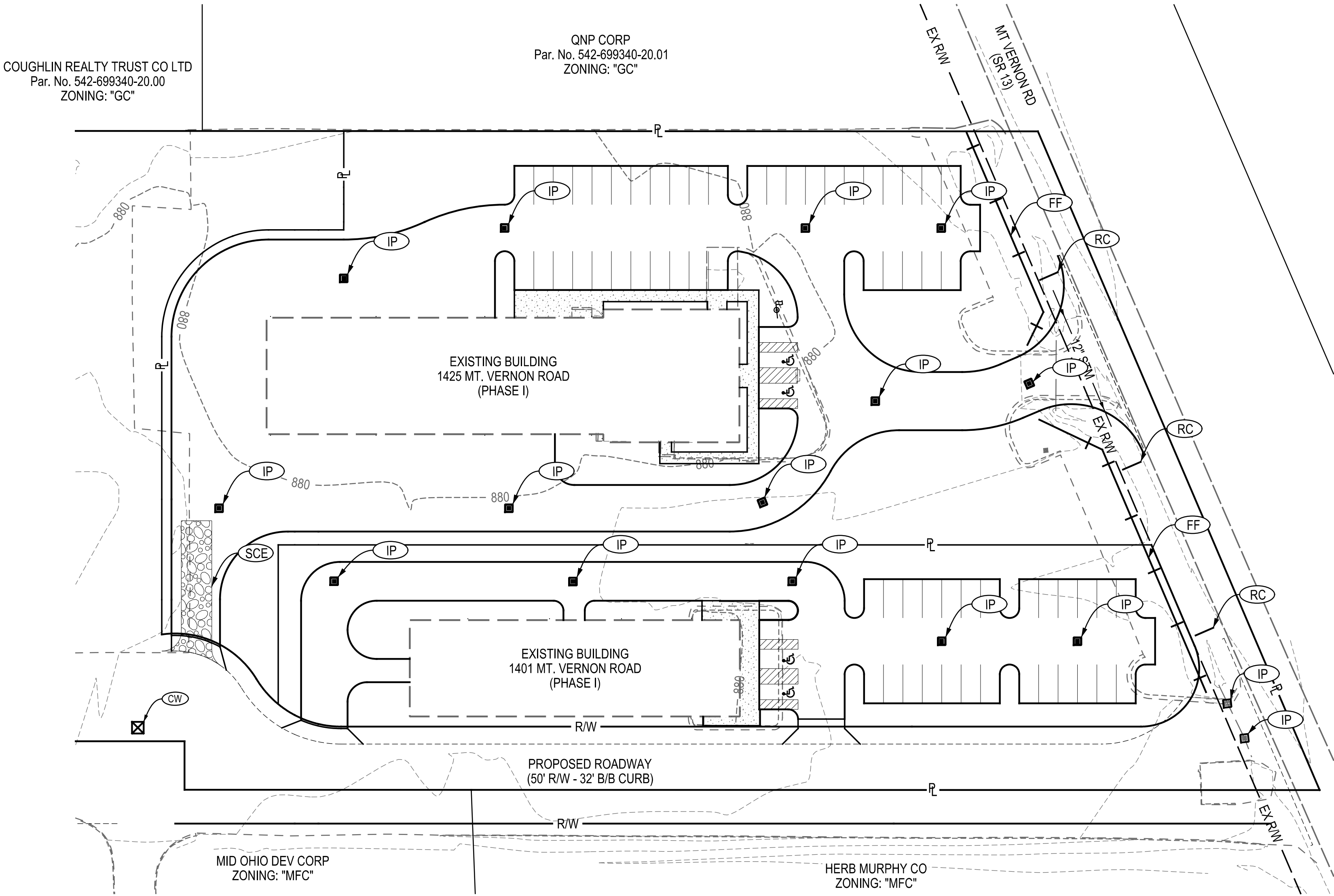
ALL CONTROLS SHALL BE INSPECTED EVERY 7 DAYS, AND AFTER EACH 1/2" RAINFALL EVENT.

ALL CONTROLS WILL REMAIN IN PLACE FOR ALL AREAS REMAINING DISTURBED FOR 14 DAYS, AND UNTIL 70% VEGETATION HAS BEEN ACHIEVED.

THE CONTRACTOR SHALL MAINTAIN ALL OFF-SITE RUNOFF THRU THE SITE AND/OR STORMWATER MANAGEMENT BASIN. BYPASS PUMPING, DIVERSION CHANNELS/BERMS, PIPING, ETC. SHALL MEET ALL EROSION CONTROLS REQUIREMENTS DESCRIBED ON THIS PLAN.

CONTROL IMPLEMENTATION SCHEDULE:

1. THE CONTRACTOR SHALL PLACE SEDIMENT FENCE AND STABILIZED CONSTRUCTION ENTRANCE PRIOR TO ANY CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE DETAILS OF THIS PLAN.
2. UPON COMPLETION OF SITE CLEARING, THE CONTRACTOR SHALL PLACE SEED AND/OR EROSION CONTROL BLANKETS AS NECESSARY TO ELIMINATE SEDIMENT RUNOFF.
3. THE CONTRACTOR SHALL PLACE SEEDING AND MULCHING AS NECESSARY TO RE-ESTABLISH ALL DENUDED AREAS.
4. THE CONTRACTOR SHALL PROPERLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING THE CONSTRUCTION OPERATIONS.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EROSION CONTROL DEVICES, ONLY AFTER ALL AREAS HAVE BEEN SEEDED/MULCHED AND 70% STABILIZED.
6. AFTER REMOVAL OF THE EROSION CONTROL DEVICES, THE CONTRACTOR SHALL CLEAN ALL EXISTING INLETS AND STORM SEWER PIPES AND ROCK CHANNEL PROTECTION OF ALL SEDIMENT & DEBRIS INCURRED DURING CONSTRUCTION.



| SHEET LEGEND                        |                                  |
|-------------------------------------|----------------------------------|
| (CW)                                | CONCRETE WASHOUT                 |
| (SCE)                               | STABILIZED CONSTRUCTION ENTRANCE |
| (FF)                                | FILTER FENCE                     |
| (IP)                                | INLET PROTECTION                 |
| (RC)                                | ROCK CHECK                       |
| SEE NEXT SHEET FOR CONTROL DETAILS. |                                  |

| EROSION CONTROL MODIFICATION LOG |             |      |
|----------------------------------|-------------|------|
| NO.                              | DESCRIPTION | DATE |
|                                  |             |      |
|                                  |             |      |
|                                  |             |      |
|                                  |             |      |
|                                  |             |      |

04080  
HORIZONTAL  
SCALE IN FEET

DRAWN  
A.M.  
CHECKED  
B.W.  
REVIEWED  
BCK

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REVISIONS  
A  
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STORM WATER POLLUTION  
PREVENTION PLAN

HNLCPA STEMFLX  
DEVELOPMENT PHASE 1  
CITY OF NEWARK, OHIO

MAR. 30, 2023  
JOB #22-083

10  
11



STORM WATER POLLUTION PREVENTION PLAN

PERMANENT STABILIZATION

|                                                         |                                                            |
|---------------------------------------------------------|------------------------------------------------------------|
| AREA REQUIRING PERMANENT STABILIZATION:                 | TIME FRAME TO APPLY EROSION CONTROLS:                      |
| ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE    | WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE           |
| ANY AREAS WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE | WITHIN TWO DAYS OF REACHING FINAL GRADE                    |
| ANY OTHER AREAS AT FINAL GRADE                          | WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA |

TEMPORARY STABILIZATION

|                                                                                                                                                          |                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AREA REQUIRING PERMANENT STABILIZATION:                                                                                                                  | TIME FRAME TO APPLY EROSION CONTROLS:                                                                                                                                                                               |
| ANY DISTURBED AREAS WITHIN 50 FEET OF A STREAM AND NOT AT FINAL GRADE                                                                                    | WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN FOR MORE THAN 14 DAYS                                                                                                                          |
| FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN 1 YEAR, AND NOT WITHIN 50 FEET OF A STREAM | WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA<br><br>FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST 7 DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S) |
| DISTURBED AREAS THAT WILL BE IDLE OVER WINTER                                                                                                            | PRIOR TO THE ONSET OF WINTER WEATHER                                                                                                                                                                                |

SEEDING AND MULCHING

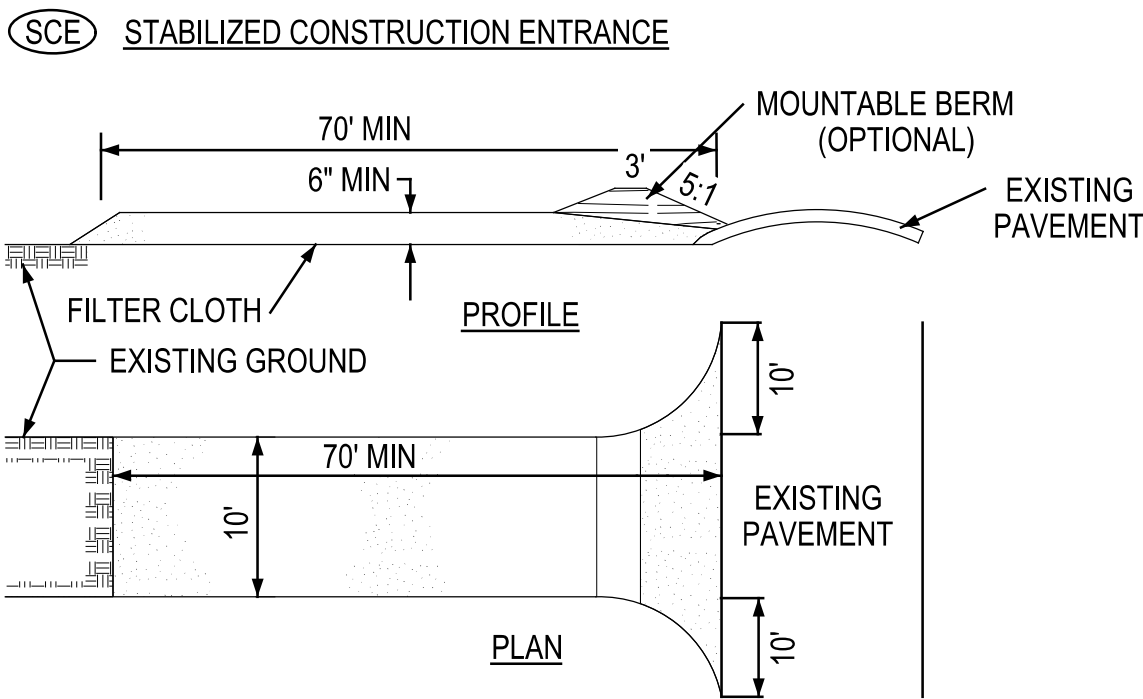
| SPECIFICATIONS FOR SEEDING AND MULCHING |                            |                                         |                                           |
|-----------------------------------------|----------------------------|-----------------------------------------|-------------------------------------------|
| SEED TYPE                               | SEEDING DATES              | PER 1000 SQ FT                          | PER ACRE                                  |
| TALL FESCUE AND ANNUAL RYEGRASS         | MARCH 1                    | 2 POUNDS AND 1/2 POUND                  | 90 POUNDS AND 20 POUNDS                   |
| SMALL GRAIN STRAW MULCH                 | TO                         | 100 POUNDS OR 2 TO 3 BALES              | 2 TONS OR 50 BALES                        |
| FERTILIZER                              | SEPTEMBER 15               | 25 POUNDS OF 12-12-12 OR THE EQUIVALENT | 1000 POUNDS OF 12-12-12 OR THE EQUIVALENT |
| TEMPORARY SEEDING                       |                            |                                         |                                           |
| KY 31 AND ANNUAL RYEGRASS               | MARCH 1 TO SEPTEMBER 15    | 1 POUND                                 | 40 POUNDS AND 20 POUNDS                   |
| RYE OR WHEAT                            | SEPTEMBER 15 TO OCTOBER 30 | 3 POUNDS                                | 2 BUSHELS                                 |
| SOIL PROTECTION                         |                            |                                         |                                           |
| SMALL GRAIN STRAW MULCH                 | OCTOBER 30 TO MARCH 1      | 2 TO 3 BALES                            | 3 TONS                                    |

POST CONSTRUCTION BMP(S)

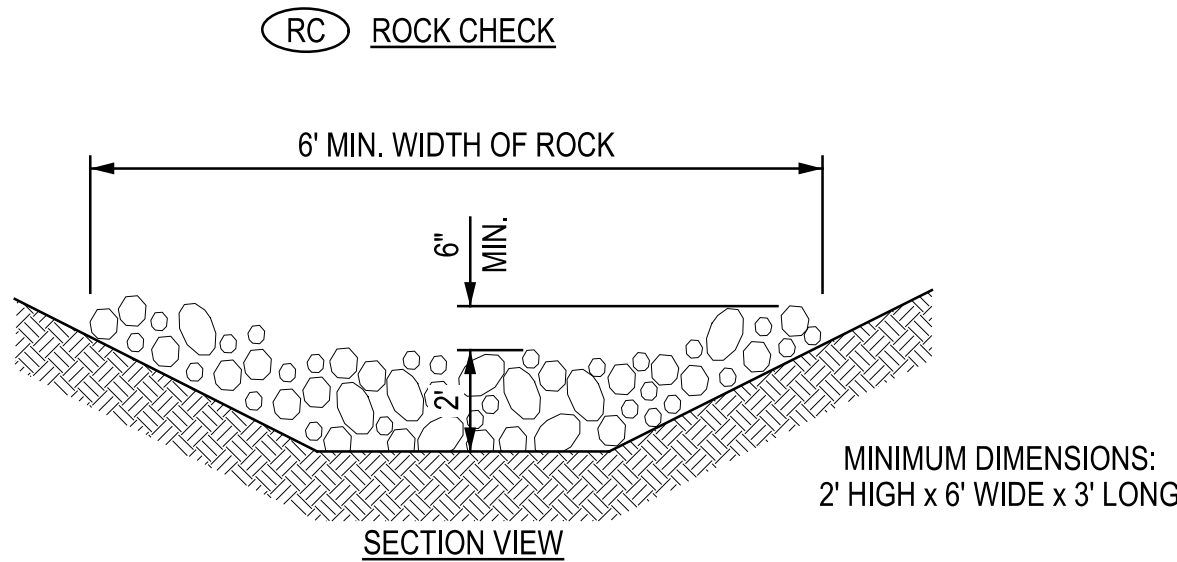
AS REQUIRED IN THE OHIO EPA GENERAL CONSTRUCTION PERMIT, THE LAND OWNER MUST PROVIDE SOME FORM OF A POST CONSTRUCTION WATER QUALITY BEST MANAGEMENT PRACTICE (BMP) FOR THE DEVELOPED SITE. THE TABLE BELOW DESCRIBES THE BMP(S) FOR THIS SITE, ALONG WITH THE INSPECTION AND MAINTENANCE FREQUENCY REQUIREMENTS. BY SIGNING THE NOI, AS THE OWNER, FOR THE GENERAL CONSTRUCTION PERMIT, YOU ARE IN AGREEMENT WITH THE OPERATION AND MAINTENANCE OF THE BMPS FOR THE SITE FOR AS LONG AS OWNERSHIP IS MAINTAINED.

ALL POLLUTANTS COLLECTED WITHIN STRUCTURAL POST-CONSTRUCTION PRACTICES SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

| POST CONSTRUCTION BMP OPERATION AND MAINTENANCE PLAN |                                                                           |                |
|------------------------------------------------------|---------------------------------------------------------------------------|----------------|
| BMP TYPE                                             | MAINTENANCE REQUIREMENTS                                                  | FREQUENCY      |
| DRY WELL BASIN                                       | CHECK AND REMOVE ACCUMULATED SEDIMENT AND DEBRIS FROM DRYWELL STRUCTURES. | EVERY 6 MONTHS |
|                                                      | GRAVEL BED SHOULD BE VACUUM CLEANED, AND GRAVEL REPLACED (AS NECESSARY)   |                |



- CONSTRUCTION SPECIFICATIONS
1. LOCATION- CONTRACTOR SHALL PLACE SCE AT THE BEST LOCATION TO PREVENT SEDIMENT FROM BEING TRACKED FROM SITE.
  2. STONE SIZE- USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  3. LENGTH- AS REQUIRED (70' MIN.).
  4. THICKNESS- NOT LESS THAN SIX (6) INCHES.
  5. WIDTH- TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
  6. FILTER CLOTH- WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
  7. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
  8. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
  9. WASHING- WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  10. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



CHANNEL FLOW APPLICATIONS: ROCK CHECK SHALL BE PLACED PERPENDICULAR TO THE CONTOUR.

MATERIALS: FURNISH MATERIAL CONFORMING TO ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C OR D, WITHOUT FILTER.

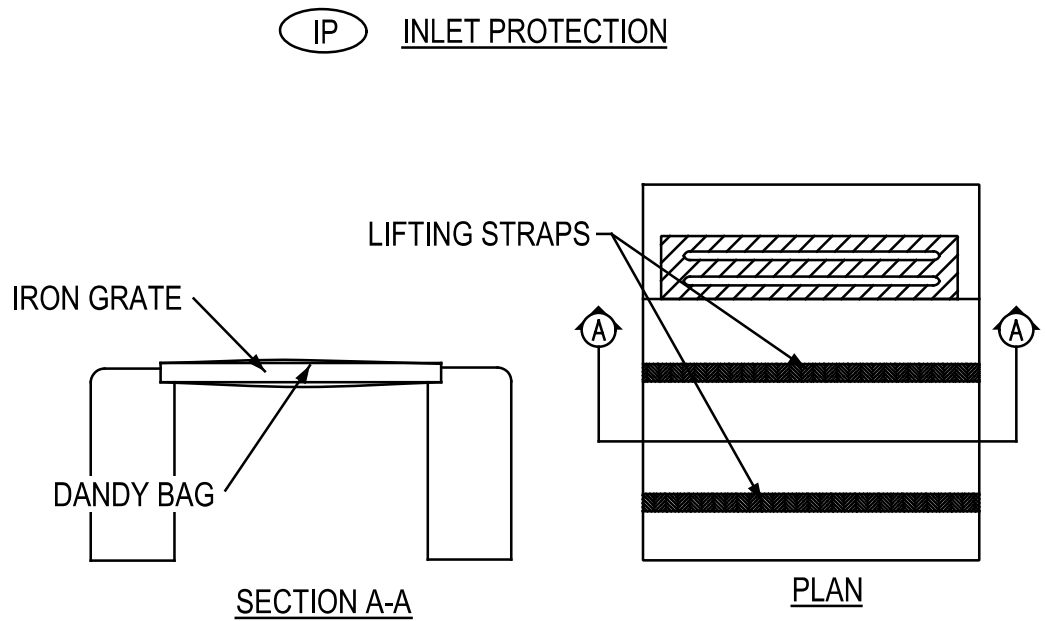
CLOSE ATTENTION SHALL BE PAID TO THE UNDERCUTTING.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE DITCH CHECK IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

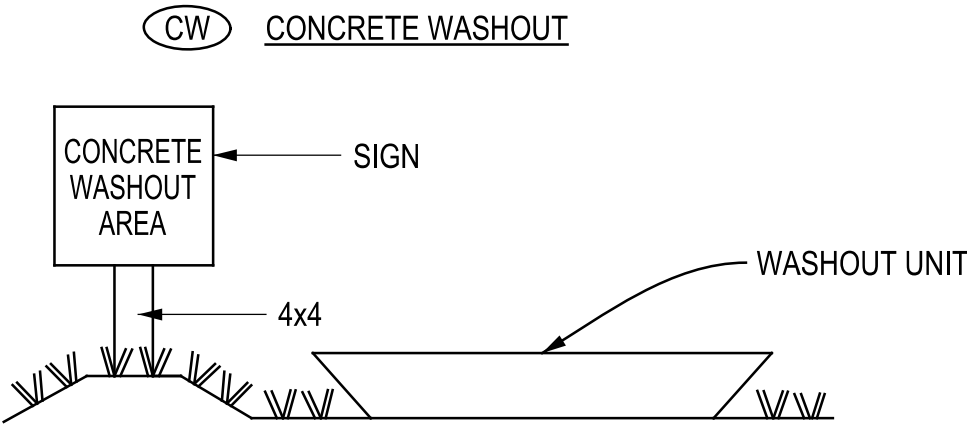
MAINTENANCE: ROCK CHECK SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

CONTROL SHOWN SHALL MEET THE SPECIFICATIONS OF O.D.O.T. STD. DWG. DM-4.4



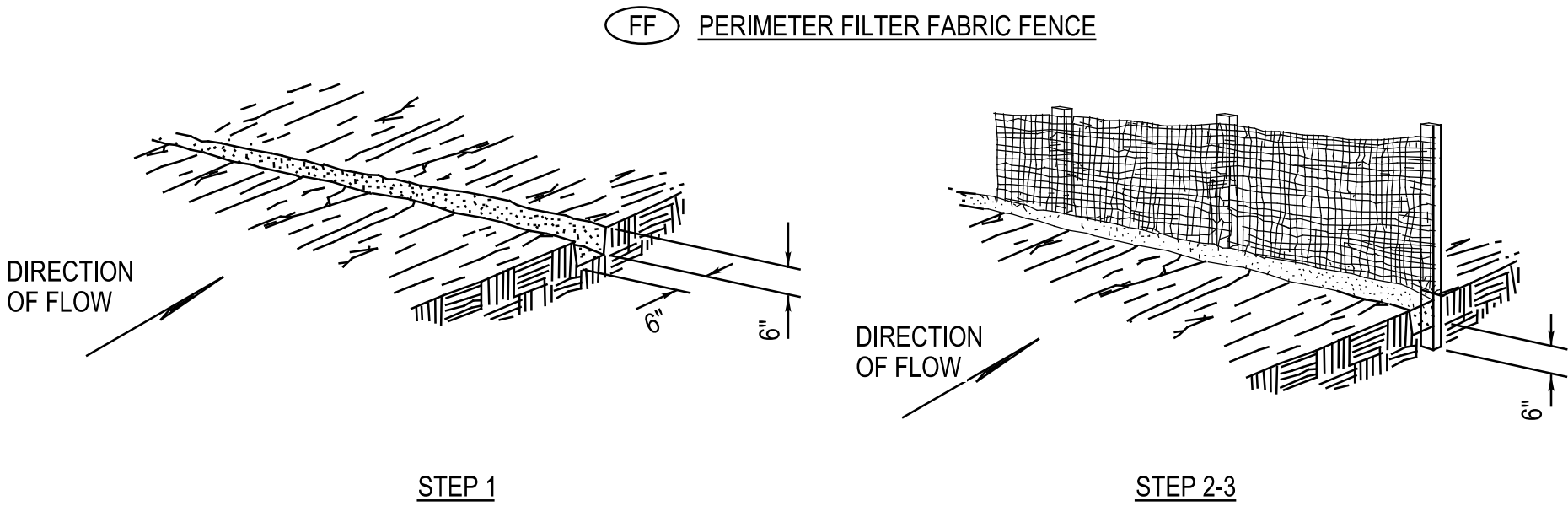
INSTALLATION: STAND GRATE ON END. PLACE DANDY BAG OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY. HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME SO THAT RED DOT ON THE TOP OF DANDY BAG IS VISIBLE.

MAINTENANCE: REMOVE DRIED SEDIMENT FROM SURFACE OF UNIT AS NEEDED WITH STIFF BROOM OR SQUARE POINT SHOVEL. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.



CONSTRUCTION SPECIFICATIONS:  
ALL CONCRETE WASHOUT CONTAINERS SHALL BE PLACED AT LEAST 100' FROM ANY STORM SEWER INLET POINT, OR ANY BODY OF WATER TO AVOID AN ACCIDENTAL RELEASE CAUSED BY A SPILL. ALL WASHOUT LOCATIONS SHALL BE DESIGNATED BY SIGN SEEN HERE ON THIS DETAIL.

CONCRETE WASHOUTS SHALL BE AT A MINIMUM A SELF CONTAINED UNIT THAT WILL NOT ALLOW CONCRETE WASH WATER TO ABSORB INTO THE GROUND. THE CONTAINER SHOULD HAVE SUFFICIENT CAPACITY SUCH THAT IT WILL NOT OVERFLOW AND CAUSE A SPILL. ALL WASTE SHALL BE TAKEN TO LANDFILL DESIGNATED FOR CONSTRUCTION DEBRIS, AS NEEDED, TO PREVENT OVERFLOWS AND SPILLS.



- EXCAVATE A 6"x6" TRENCH ALONG THE PROPOSED FENCE LINE.

MATERIALS:  
FURNISH 30" WIDE FILTER FABRIC WITH SOUND WOOD SUPPORTS WITH MAXIMUM ON-CENTER SPACING OF 10'.  
USE FILTER FABRIC CONFORMING TO 712.09 TYPE C.

- BACKFILL AND COMPACT THE EXCAVATED SOIL.  
- PLACE FABRIC AND SUPPORT STAKES AND EXTEND FABRIC INTO THE TRENCH.