FINAL ENGINEERING PLANS

FOR

RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE, ILLINOIS

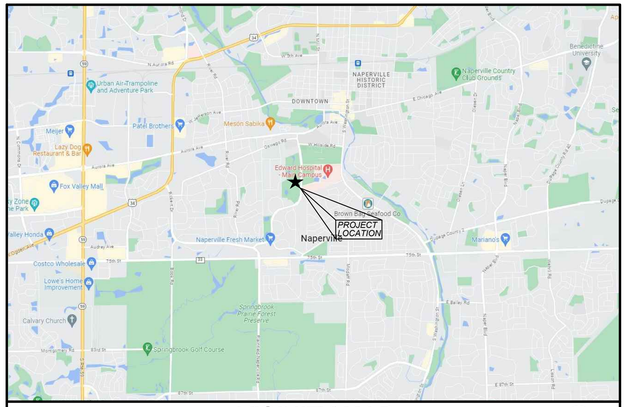
PROJECT TEAM

OWNER/DEVELOPER

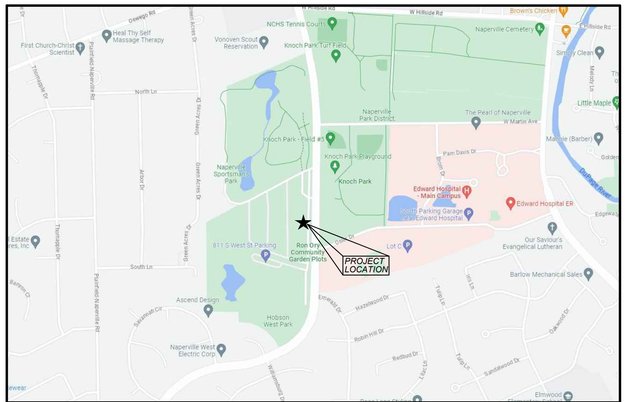
Naperville Park District
320 West Jackson Avenue
Naperville, Illinois 60540
630 848 5013
Contact: Peggy Motta

ENGINEER

V3 Companies, Ltd.
7325 Janes Avenue
Woodridge, Illinois 60517
630 724 9200
Project Manager: Dan Free, P.E.
dfree@v3co.com
Design Engineer: Jack LaDieu
jladieu@v3co.com



VICINITY MAP
NO SCALE



LOCATION MAP
NO SCALE

BENCHMARKS

ELEVATION REFERENCE MARKS

RM1- NAPERVILLE SURVEY MON. #1002. BERNSTEN 3D TOP SECURITY MONUMENT. CONSISTING OF A 9/16" DIA. STAINLESS STEEL DATUM POINT ON THREADED 9/16" X 4' LONG ROD TOTALING (24') IN LENGTH WITH GREASED TOP SECURITY SLEEVE ENCLOSED IN SAND AND 6" PVC PIPE WITH BMAC 6 ALUMINUM ACCESS COVER. ELEVATION=667.49 (NAVD 88)

RM2-NAPERVILLE SURVEY MON. #1501. BERNSTEN 3D TOP SECURITY MONUMENT. CONSISTING OF A 9/16" DIA. STAINLESS STEEL DATUM POINT ON THREADED 9/16" X 4' LONG ROD TOTALING (12') IN LENGTH WITH GREASED TOP SECURITY SLEEVE ENCLOSED IN SAND AND 6" PVC PIPE WITH BMAC 6 ALUMINUM ACCESS COVER. ELEVATION= 691.72 (NAVD 88)

PROJECT ELEVATION REFERENCE MARKS

CP 501 - SET IRON PIPE WITH CAP SOUTH OF THE GARDEN PLOTS GRAVEL PARKING LOT ALONG WEST STREET AS SHOWN HEREON.

N: 1855438.452 E: 1031980.678 ELEV.: 703.083

CP 502 - SET CROSS IN CONCRETE WALK ALONG WEST SIDE OF WEST STREET AT THE NORTHWEST CORNER OF THE INTERSECTION WITH MARTIN AVENUE AS SHOWN HEREON.

N: 1856293.495 E: 1032038.622 ELEV.: 703.764

CP 853 - SET CROSS IN CONCRETE BASE OF HANDHOLE LOCATED ALONG WEST SIDE OF WEST STREET SOUTH OF THE ENTRANCE TO THE GARDEN PLOTS GRAVEL PARKING LOT AS SHOWN HEREON.

N: 1855441.187 E: 1032047.398 ELEV.: 703.979

CP 1754 - SET CROSS IN CONCRETE AT SOUTHEAST CORNER OF GRAVEL PARKING LOT SOUTH OF SUBJECT SITE AS SHOWN HEREON.

N: 1854714.499 E: 1031722.437 ELEV.: 700.485

INDEX

CIVIL ENGINEERING PLANS

SUPPORTING DOCUMENTS

EXISTING IMPERVIOUS AREA:	118,779.22 SF (2.73 AC)
PROPOSED IMPERVIOUS AREA:	88,018.32 SF (2.02 AC)
NET CHANGE:	30760.9 SF (0.71 AC)

Call Before You Dig
JULIE
800.892.0123
Joint Utility Locating Information for Excavators
Call 48 hours before you dig

PROFESSIONAL ENGINEER'S CERTIFICATION

I, DANIEL E. FREE, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THE CIVIL ENGINEERING PLANS WERE PREPARED ON BEHALF OF NAPERVILLE PARK DISTRICT BY V3 COMPANIES, LTD. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS _____DAY OF_____, A.D., 2024.

ILLINOIS LICENSED PROFESSIONAL ENGINEER 061-036443
MY LICENSE EXPIRES ON NOVEMBER 30, 2025

ILLINOIS LICENSED DESIGN FIRM NO. 184-000902

REVISIONS

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO.: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JL
DRAWN BY: RI

TITLE SHEET

RON ORY COMMUNITY GARDEN IMPROVEMENTS
NAPERVILLE ILLINOIS
FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
C0.0

N:\2023\230505\Drawings\ACAD\LD\S04\Sheet Drawings\C0.0 Tsht230505.dwg 6/5/2024

GENERAL NOTES

1. EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY PREPARED BY:

   CEMCON, LTD.
   CONSULTING ENGINEERS, LAND SURVEYORS & PLANNERS
   2280 WHITE OAK CIRCLE, SUITE 100
   AURORA, IL 60502-9675
   PH; 630 862 2100

   COPIES OF THE SURVEY ARE AVAILABLE FROM THE SURVEYOR. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.

2. ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN.

3. CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL AND STARTING WORK.

4. ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.

5. THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS PRIOR TO STARTING WORK. THE CONTRACTOR, BY USING THESE PLANS FOR THEIR WORK, AGREE TO HOLD HARMLESS V3 COMPANIES LTD., THE MUNICIPALITY, THEIR EMPLOYEES AND AGENTS AND THE OWNER WHILE ACTING WITHIN THE SCOPE OF THEIR DUTIES FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, HIS AGENTS, THE ENGINEER, HIS EMPLOYEES AND AGENTS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE OWNER OF THE ROADWAY.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

8. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK PROPOSED HEREON SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS WHICH ARE HEREBY MADE A PART HEREOF:

   a. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS PREPARED BY IDOT, LATEST EDITION.

   b. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS," LATEST EDITION.

   c. ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS," AS PUBLISHED BY THE IEPA. LATEST EDITION.

   d. THE LATEST EDITIONS OF THE MUNICIPAL CODE AND STANDARDS OF THE CITY OF NAPERVILE.

   e. THE NATIONAL ELECTRIC CODE.

   f. THE ILLINOIS ACCESSIBILITY CODE.

   g. CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) REQUIREMENTS AS PUBLISHED BY THE IEPA. TESTING OF SOILS BEING EXPORTED FROM THE SITE AND APPROPRIATE DISPOSAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

   IN THE EVENT OF CONFLICTING SPECIFICATIONS WITH REGARD TO SITE WORK ISSUES DESIGNED BY THE ENGINEER, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

9. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO COMMENCING ANY WORK AND FOR ANY NEW CONSTRUCTION REQUIRING INSPECTION.

10. ALL TREES TO BE SAVED SHALL BE IDENTIFIED PRIOR TO CONSTRUCTION AND SHALL BE PROTECTED PER IDOT STANDARDS. THE RIGHT-OF-WAY LINE AND LIMITS OF THE CONTRACTOR'S OPERATIONS SHALL BE CLEARLY DEFINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL TREES IDENTIFIED TO REMAIN SHALL BE PROTECTED FROM DAMAGE INCLUDING TRUNKS, BRANCHES AND ROOTS. NO EXCAVATING, FILLING OR GRADING IS TO BE DONE INSIDE THE DRIP LINE OF TREES UNLESS OTHERWISE INDICATED.

11. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT ACCUMULATION OF MUD OR SOIL ON PUBLIC THOROUGHFARES. AT THE END OF EACH DAY AND AS OFTEN AS OTHERWISE NECESSARY THE CONTRACTOR SHALL CLEAN UP ALL MUD OR SOIL WHICH HAS BEEN TRACKED ONTO PUBLIC STREETS AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND AS DETAILED IN THE STORM WATER POLLUTION PREVENTION PLAN.

12. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS WHERE HIS/HER OPERATIONS ABUT PUBLIC THOROUGHFARES AND ADJACENT PROPERTY IN ACCORDANCE WITH THE CITY OF NAPERVILLE MUNICIPAL CODE AND IDOT REQUIREMENTS.

13. NO HOLES ARE TO BE LEFT OPEN IN THE PAVEMENT OR PARKWAY OVER A HOLIDAY, WEEKEND OR AFTER 3:00 P.M. ON THE DAY PRECEDING A HOLIDAY OR A WEEKEND.

14. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL.

15. REMOVED PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AS PART OF THE BASE CONTRACT.

16. NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.

17. FOR REGULATED UTILITY LOCATIONS, THE CONTRACTOR SHALL CONTACT THE JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS, "J.U.L.I.E." AT 1-800-892-0123. LOCAL GOVERNMENT AGENCIES SHOULD BE CONTACTED BY THE CONTRACTOR FOR LOCATION OF ALL NONREGULATED UTILITY LOCATIONS. CALL FOR LOCATES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION.

18. BEFORE EXCAVATING OVER OR ADJACENT TO ANY EXISTING UTILITIES, CONTRACTOR SHALL NOTIFY THE OWNER OF SUCH UTILITIES TO ENSURE THAT PROTECTIVE WORK WILL BE COORDINATED AND PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER OF THE UTILITY INVOLVED. IF ANY EXISTING SERVICE LINES, UTILITIES AND UTILITY STRUCTURES WHICH ARE TO REMAIN IN SERVICE ARE UNCOVERED OR ENCOUNTERED DURING THIS OPERATION, THEY SHALL BE SAFEGUARDED, PROTECTED FROM DAMAGE AND SUPPORTED IF NECESSARY.

19. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AS DETAILED IN THE STORM WATER POLLUTION PREVENTION PLAN.

21. ALL CURB RADII REFER TO BACK OF CURB.

22. ANY AREAS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN CONFORMANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND SHALL BE INCIDENTAL TO THE CONTRACT.

23. STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGED, SHALL BE REPLACED PROMPTLY IN CONFORMANCE WITH THE NAPERVILLE MUNICIPALITY OR IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.

24. PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED PAVING (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS INDICATED ON DRAWINGS.

25. CAD FILES ARE AVAILABLE FOR CONSTRUCTION LAYOUT UPON REQUEST.

26. BACKFILL SHALL BE PLACED NEXT TO THE CURB AS SOON AS PERMISSIBLE AFTER CONSTRUCTION TO PREVENT SCOURING AND UNDERCUTTING BY STORM WATER RUNOFF.

27. BUTT JOINTS SHALL BE PROVIDED WHEREVER NEW PAVEMENT ABUTS EXISTING PAVEMENT. ALL BUTT JOINTS SHALL BE CONSTRUCTED BY MILLING AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE BITUMINOUS SURFACE COURSE.

28. WHEN AN EXISTING DRAINAGE ROUTE, EITHER A STORM SEWER OR WATERWAY, IS INTERRUPTED DUE TO CONSTRUCTION, THE DRAINAGE ROUTE SHALL BE REESTABLISHED TO ORIGINAL CONDITIONS BY THE END OF THE SAME WORK DAY. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

29. PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS. PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS.

30. FINAL ADJUSTMENT OF FIRE HYDRANTS, VALVE VAULTS AND MANHOLES TO FINISHED GRADE ARE INCIDENTAL TO THEIR COST.

31. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT ARE TO BE ADJUSTED OR RECONSTRUCTED BY THE CONTRACTOR TO THE UTILITY OWNER'S SATISFACTION. ADJUSTMENTS OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

32. ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND TO THE SATISFACTION OF THE UTILITY OWNER.

33. PROVIDE TRENCH BACKFILL IN ACCORDANCE WITH THE DETAILS OF THE PLANS FOR ALL UTILITY LINES (OR AS OTHERWISE NOTED ON PLANS). BACKFILL SHALL BE PLACED AND COMPACTED PER THE NAPERVILLE MUNICIPALITY AND IDOT SPECIFICATIONS. COST OF BACKFILL IS TO BE CONSIDERED INCIDENTAL TO THE UTILITY WORK.

34. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

35. PRIOR TO DEMOBILIZATION, ALL WORK SHALL BE CLEANED AND INSPECTED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

36. THE GENERAL CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE CABLE TV, PHONE, ELECTRIC, GAS AND IRRIGATION SERVICES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SITE LAYOUTS FOR THESE UTILITIES AND SHALL COORDINATE AND PROVIDE CONDUIT CROSSINGS AS REQUIRED. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ANY CONFLICTS IN UTILITIES SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

37. BAND-SEAL CONNECTORS OR EQUIVALENT SHALL BE USED TO JOIN PIPES OF DISSIMILAR MATERIAL.

38. CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL CONSTRUCTION IN CONFORMANCE WITH ALL MUNICIPAL AND CLIENT REQUIREMENTS FOR USE IN PREPARING RECORD DRAWINGS.

39. THE SUBCONTRACTOR SHALL INSTALL A 2"x4"x6' POST ADJACENT TO THE TERMINUS OF UTILITY MAINS AND SERVICE LINES. POSTS SHALL BE MARKED IN ACCORDANCE WITH THE VILLAGE STANDARDS.

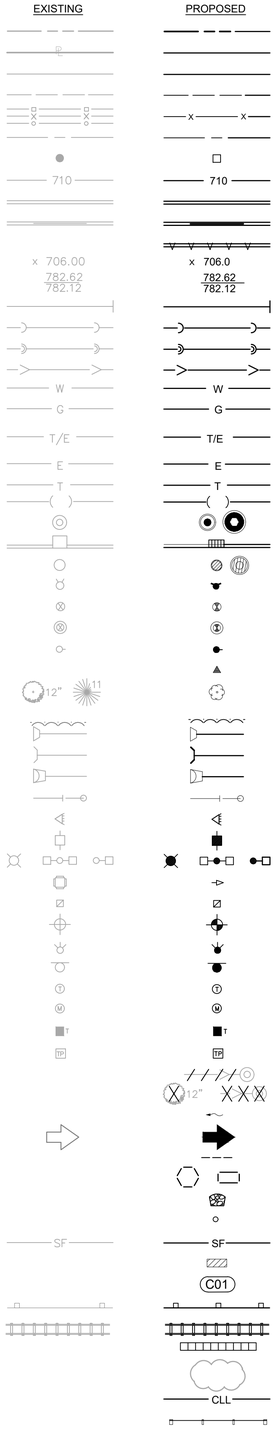
40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ANY EXCAVATION. ANY DEWATERING REQUIRED SHALL BE INCIDENTAL TO THE CONTRACT.

41. COPIES OF SOILS INVESTIGATION REPORTS MAY BE OBTAINED FROM THE OWNER. ANY BRACING, SHEETING OR SPECIAL CONSTRUCTION METHODS REQUIRED IN ORDER TO INSTALL THE PROPOSED IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT. ANY ADDITIONAL SOILS DATA NEEDED TO CONFIRM THE CONTRACTOR'S OPINIONS OF THE SUBSOIL CONDITIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN AUTHORIZATION TO ACCESS THE SITE TO CONDUCT A SUPPLEMENTAL SOILS INVESTIGATION.

42. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY AS DETERMINED BY THE ENGINEER. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATIONAL CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE FOR ON-SITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE SUBCONTRACTOR AND SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT. ALL FIELD TILE REPAIRS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

43. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

LEGEND



ABBREVIATIONS

RIGHT-OF-WAY LINE	A — ARC LENGTH
PROPERTY LINE (EXTERIOR)	B-B — BACK TO BACK OF CURB
LOT LINE (INTERIOR)	B/C — BACK OF CURB
EASEMENT LINE	BLDG — BUILDING
FENCE LINE	BM — BENCHMARK
CENTERLINE	B/P — BOTTOM OF PIPE
PROPERTY CORNER	BV/VV — BUTTERFLY VALVE IN VALVE VAULT
CONTOUR	C & G — CURB AND GUTTER
CURB & GUTTER	CB — CATCH BASIN
DEPRESSED CURB & GUTTER	℄ — CENTERLINE
REVERSE PITCHED CURB	CL — CLOSED LID
SPOT ELEVATION	CO — CLEAN OUT
TOP OF CURB ELEVATION	DIP — DUCTILE IRON PIPE
EDGE OF PAVEMENT ELEVATION	DIA — DIAMETER
UTILITY STUB	DIWM — DUCTILE IRON WATER MAIN
SANITARY SEWER	DWG — DRAWING
SANITARY FORCE MAIN	E — EAST OR ELECTRIC OR EDGE
STORM SEWER	EJ — EXPANSION JOINT
WATER MAIN	ELEV — ELEVATION
GAS MAIN	E/P — EDGE OF PAVEMENT
UNDERGROUND TELEPHONE & ELECTRIC DUCT BANK	EX. — EXISTING
BURIED CABLE-ELECTRIC	F & CL — FRAME & CLOSED LID
BURIED CABLE-TELEPHONE	F & G — FRAME & GRATE
ATLAS LOCATED UTILITY	F & OL — FRAME & OPEN LID
UTILITY STRUCTURE WITH CLOSED LID	FES — FLARED END SECTION
CURB INLET	F-F — FACE TO FACE OF CURB
DRAINAGE STRUCTURE WITH OPEN LID	FF — FINISHED FLOOR
FIRE HYDRANT	F/G — FINISHED GRADE
VALVE IN VALVE BOX	FH — FIRE HYDRANT
GATE VALVE IN VALVE VAULT	F/L — FLOW LINE
POST INDICATOR VALVE	G — GAS LINE
THRUST BLOCK	GV/VB — GATE VALVE IN VALVE BOX
TREE	GV/VV — GATE VALVE IN VALVE VAULT
TREE LINE	HDCP — HANDICAP
CONCRETE HEADWALL	HDPE — HIGH DENSITY POLYETHYLENE PIPE
SUBMERGED HEADWALL	HDW — HEADWALL
FLARED END SECTION (F.E.S.)	HOR — HORIZONTAL
GUY WIRES	HP — HIGH POINT
FLOOD LIGHT	HWL — HIGH WATER LEVEL
UTILITY POLE	IE — INVERT ELEVATION
LIGHT STANDARD	IN — INLET
TRAFFIC SIGNAL POLE	LF — LINEAL FEET
HAND HOLE	LP — LOW POINT OR LIGHT POLE
SOIL BORING	L — LEFT
IRRIGATION HEADS	ME — MATCH EXISTING
SIGN	MH — MANHOLE
TELEPHONE MANHOLE	MW — MONITORING WELL
MONITORING WELL	N — NORTH
TELEPHONE PEDESTAL	NIC — NOT IN CONTRACT / NOT INCLUDED
TRANSFORMER PAD	NWL — NORMAL WATER LEVEL
UTILITY TO BE ABANDONED	OC — ON CENTER
FEATURE TO BE REMOVED	OL — OPEN LID
STORMWATER FLOW DIRECTION	PC — POINT OF CURVATURE
STORMWATER OVERFLOW ROUTE	PCC — PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
DITCH CHECK	PGL — PROFILE GRADE LINE
INLET FILTER BASKET	PI — POINT OF INTERSECTION
RIP RAP	PL — PROPERTY LINE
BOLLARD	PP — POWER POLE
SILT FENCE	PRC — POINT OF REVERSE CURVATURE
WATER MAIN PROTECTION	PT — POINT OF TANGENCY
UTILITY CROSSING LABEL	PUE — PUBLIC UTILITY EASEMENT
GUARDRAIL	PVC — POINT OF VERTICAL CURVATURE OR POLYVINYL CHLORIDE PIPE
RAILROAD TRACKS	PVI — POINT OF VERTICAL INTERSECTION
RETAINING WALL	PVT — POINT OF VERTICAL TANGENCY
REVISION DELINEATION	R — RADIUS OR RIGHT
CONSTRUCTION LIMIT LINE	RCP — REINFORCED CONCRETE PIPE
TREE PROTECTION FENCE	ROW — RIGHT OF WAY
	S — SLOPE OR SOUTH
	SAN — SANITARY
	SF — SILTATION FENCE
	SFM — SANITARY FORCE MAIN
	SHT — SHEET
	SHW — SUBMERGED HEADWALL
	SMH — SANITARY MANHOLE
	STA — STATION
	ST — STORM STRUCTURE OR STORM SEWER
	STMH — STORM MANHOLE
	T — TANGENT LENGTH OR TELEPHONE
	T/C — TOP OF CURB
	T/P — TOP OF PIPE
	T/W — TOP OF WALL
	TY — TYPE
	TYP — TYPICAL
	UP — UTILITY POLE
	VC — VERTICAL CURVE
	VERT — VERTICAL
	VCP — VITRIFIED CLAY PIPE
	W — WEST
	WM — WATER MAIN

REVISIONS

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
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4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO.: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JL
DRAWN BY: RI

GENERAL NOTES, LEGEND, AND ABBREVIATIONS

RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE ILLINOIS

FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.

C1.0

General Notes

The General Notes in this section should be included in all final engineering plans regardless of the type of project.

1. THE OWNER OR HIS/HER/THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CNSTRUCTION" (CURRENT EDITION).
3. ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
4. THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
5. THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.
6. PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.
7. THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE- CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE- CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.
8. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6082) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892- 0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
10. THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6082 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).
11. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
12. FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTLITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.

Storm Sewer Notes (General)

The Storm Sewer Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1. NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.
2. THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.
3. ADJUSTMENTS MAY BE NECESSARY TO ENSURE THAT FRAMES AND GRATES MATCH THE ELEVATION OF THE SURROUNDING PAVEMENT OR GROUND SURFACE. PREFORMED ADJUSTING RINGS OF THE PROPER DIMENSIONS NEEDED TO MATE THE FRAME TO THE PRECAST STRUCTURE SHALL BE USED. NO MORE THAN 12 INCHES OF VERTICAL ADJUSTMENT MAY BE MADE USING THE MINIMUM PRACTICAL NUMBER OF INDIVIDUAL RINGS.
4. ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP), OR OTHER MATERIAL AS APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED. TAPERED ADJUSTING RINGS SHALL BE REQUIRED WHEN THE FRAME WILL NEED TO MATCH THE SLOPE OF THE ROADWAY.
5. A RESILIENT, FLEXIBLE, NON-HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL, CONSEAL 102 B OR APPROVED EQUAL, SHALL BE USED BETWEEN THE CONE OR TOP BARREL SECTION OF THE STRUCTURE AND THE ADJUSTING RINGS. A THICK BEAD OF NON-HARDENING ELASTOMERIC JOINT SEALANT CONFORMING TO ASTM C-920, TYPE S, GRADE NS, SHALL BE APPLIED BETWEEN ALL INDIVIDUAL RINGS, AND BETWEEN THE ADJUSTING RINGS AND THE FRAME. THE SEALANT OR MASTIC MATERIAL SHALL BE APPLIED IN SUCH A MANNER THAT NO SURFACE WATER OR GROUND WATER INFLOW CAN ENTER THE STRUCTURE.
6. ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH HYDRAULIC CEMENT OR ELASTOMERIC JOINT SEALANT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RINGS AND TO MAINTAIN WATER-TIGHTNESS.
7. FRAME ADJUSTMENTS SHALL BE COMPLETED IN ACCORDANCE WITH SECTIONS 602 AND 603 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION, EXCEPT AS NOTED HEREIN.

Erosion Control and Drainage Notes (General)

The Erosion Control and Drainage Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
2. DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
3. DURING CONSTRUCTION, THE EXISTING DRIVEWAY ENTRANCE SHALL BE USED AS A TEMPORARY CONSTRUCTION ENTRANCE TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.

Erosion Control and Drainage Notes (NPDES Permit)

The Erosion Control and Drainage Note in this section should be included if the project requires an NPDES permit.

Geometric and Paving Notes (General)

The Geometric and Paving Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1. THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.
2. ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.
3. THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.
4. THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.
5. WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE EXISTING ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS CORRECT.

Traffic Control and Protection Notes (General)

The Traffic Control and Protection Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1. ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. TRAFFIC CONTROL MUST BE PROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC FLOW. THIS INCLUDES, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND CONSTRUCTION VEHICLES ENTERING AND EXITING THE PUBLIC ROADWAY. ALL TRAFFIC CONTROL SET- UPS MAY BE INSPECTED BY THE CITY OF NAPERVILLE TO ENSURE THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.
2. PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRIANS SO THAT THEY MAY AVOID THE WORK ZONE. SAID PEDESTRIAN DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE CITY IN WRITING, PRIOR TO THE COMMENCEMENT OF THE WORK.
3. THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF VEHICLES, AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER.
4. ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

Traffic Control and Protection Notes (Downtown)

The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project is located in downtown Naperville.

1. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN THE DOWNTOWN. IF A PEDESTRIAN DETOUR CANNOT BE ACCOMMODATED, THE CITY MAY REQUIRE THE CONTRACTOR TO PROIVDE A PROTECTED COVERED WALKWAY.
2. ANY WORK IMPACTING THE PUBLIC RIGHT-OF-WAY SHALL NOT BE ALLOWED IN THE DOWNTOWN ON A FRIDAY, SATURDAY, SUNDAY, AND/OR HOLIDAY, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER.
3. ALL WORK IN THE DOWNTOWN SHALL BE COORDINATED WITH THE DOWNTOWN NAPERVILLE ALLIANCE (DNA) TO AVOID CONFLICT WITH SPECIAL EVENTS.

DEPARTMENT OF PUBLIC UTILITES WATER/WASTEWATER GENERAL NOTES

a. NEW WATER MAIN VALVES, INCLUDING PRESSURE TAP VALVES, ADJACENT TO AN EXISTING WATER MAIN, AND EXISTING WATER MAIN VALVES SHALL ONLY BE OPERATED BY THE CITY OF NAPERVILLE, DEPARTMENT OF PUBLIC UTILITIES CEE/CM DIVISION PERSONNEL WITH 48-HOUR NOTICE (MONDAY-FRIDAY). CONTACT NAPERVILLE DPU-W/WW AT 630-420-4122 FOR SCHEDULING.

b. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED. ALL STRUCTURE FRAMES SHALL BE FLUSH WITH FINAL GRADE.

c. TREES SHALL BE INSTALLED A MINIMUM OF FIVE (5) FEET HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES. TREES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVE VAULTS, VALVE BOXES AND FIRE HYDRANTS. NO TREES, SHRUBS OR OBSTACLES WILL BE ALLOWED 10' IN FRONT OF, 5' ON THE SIDES, AND 7' TO THE REAR OF THE ELECTRICAL TRANSFORMER.

d. ALL RETAINER GLANDS WHEN REQUIRED TO RESTRAIN VALVES, FITTINGS, HYDRANTS, AND PIPE JOINTS SHALL BE MECHANICAL JOINT WEDGE ACTION TYPE MEGALUG 1100 SERIES AS MANUFACTURED BY EBBA IRON, INC. OR UNI-FLANGE BLOCKBUSTER 1400 SERIES AS MANUFACTURED BY FORD METER BOX CO. AND SHALL BE FOR USE ON DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51, FOR NOMINAL PIPE SIZES 3" THROUGH 48".

e. EXISTING DUCTILE IRON SYSTEMS FOR RESTRAINING PUSH-ON PIPE BELLS SHALL BE MEGALUG SERIES 1100HD OR FORD SERIES 1390.

f. EXISTING DUCTILE IRON SYSTEMS REQUIRING RESTRAINT SHALL BE MEGALUG SERIES 1100SD (SPLIT MEGALUG) FOR MECHANICAL JOINTS.

g. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5-05.

h. A SET OF AS-BUILT RECORD DRAWING SHALL BE GIVEN TO THE CITY OF NAPERVILLE UPON COMPLETION OF IMPROVEMENTS SHOWING THE ELEVATION AND LOCATION (TIED TO TWO POINTS) OF ALL NEW AND EXISTING STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), AND ABANDONED WATER OR SANITARY SERVICE LINES. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS.

i. ALL SANITARY SEWER PIPING SHALL BE PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241 WITH JOINTS CONFORMING TO ASTM D-3139. ALL SANITARY SEWER FITTINGS SHALL BE PVC MEETING THE FOLLOWING REQUIREMENTS: 4" TO 12" SHALL BE INJECTION MOLDED FITTINGS MEETING ASTM D-2241. GREATER THAN 12" SHALL BE FABRICATED FITTINGS MEETING ASTM D-2241 OR C905. MINIMUM PRESSURE RATING SHALL BE 150 PSI.

j. THE VALVES LESS THAN 16" SHALL BE STANDARD PATTERN, GATE VALVES AND SHALL HAVE THE NAME OR MARK OF THE MANUFACTURER, SIZE AND WORKING PRESSURE PLAINLY CAST IN RAISED LETTERS ON THE VALVE BODY. VALVES MAY BE APPROVED FROM ONE OF THE FOLLOWING MANUFACTURERS: AMERICAN, CLOW, WATEROUS OR KENNEDY.

k. STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SEIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIR WITH FIELD APPLIED APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEEZ OR APPROVED EQUAL.

l. THE CONTRACTOR SHALL ROTATE AND/OR ADJUST ANY EXISTING AND/OR NEW HYDRANT TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC UTILITIES.

m. WATER MAINS SHALL BE SUBJECTED TO A HYDROSTATIC/LEAKAGE TEST IN ACCORDANCE WITH NAPERVILLE STANDARD SPECIFICATIONS. TEST PRESSURE SHALL BE NO LESS THAN 150 PSI FOR A PERIOD OF 4 HOURS AND NOT VARY BY MORE THAN + 5 PSI. DURING THE TEST. THE TEST GAUGE SHALL BE APPROVED BY THE CITY AND SHALL BE GLYCERIN OR OIL FILLED, WITH A RANGE OF NOT MORE THAN 200 PSI AND INCREMENTS NOT GREATER THAN 5 PSI, 4 " MINIMUM DIAL SIZE. WATER RECOVERY TEST SHALL BE COMPLETED AT THE END OF THE TESTING PERIOD TO SHOW ACTUAL LEAKING AND THAT THE WATER MAIN DID NOT HAVE TOO MUCH TRAPPED AIR IN THE TESTED SECTION.

n. THE CITY OF NAPERVILLE DPU-W/WW DOES NOT GUARANTEE THAT ANY VALVE OR FITTING IN THE EXISTING WATER DISTRIBUTION SYSTEM WILL HOLD AGAINST A HYDROSTATIC/LEAKAGE TEST. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AN ACCEPTABLE PRESSURE TEST WHICH SHALL INCLUDE PROVISIONS AROUND EXISTING VALVES AND FITTINGS.

o. FIRE HYDRANT SHOULD BE BAGGED "NOT IN SERVICE" UNTIL ALL TESTING AND DISINFECTION HAS BEEN COMPLETED AND NEW WATER MAIN SECTION IS SERVICE.

p. SANITARY SEWER AND WATER SHALL BE CONSTRUCTED, TESTED, AND PLACED INTO SERVICE IN ACCORDANCE WITH CITY OF NAPERVILLE STANDARD SPECIFICATION AND SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.

q. ALL VALVE BOXES, VAULTS, HYDRANTS, AND MANHOLES SHALL NOT BE COVERED WITH CONSTRUCTION DEBRIS AND SHALL REMAIN ACCESSIBLE TO THE RESPECTIVE UTILITY COMPANY.

r. WATER SERVICE LINE SMALLER THAN 3" SHALL BE TYPE K COPPER. IF JOINTS ARE REQUIRED DUE TO LENGTH OF SERVICE, THEN ONLY COMPRESSION TYPE COUPLING SHALL BE PERMITTED. NO SOLDERED OR FLARED TYPE JOINTS ARE ALLOWED.

s. ALL SANITARY MANHOLES SHALL BE TESTED FOR LEAKAGE BY VACUUM TESTING. THE MANHOLE FRAME AND ADJUSTING RINGS SHALL BE IN PLACE WHEN TESTING. ANY LEAKS SHALL BE REPAIRED FROM EXTERIOR OF MANHOLE - PATCHING INSIDE OF MANHOLE SHALL NOT BE ACCEPTABLE. A VACUUM OF 10" (254 MM) HG SHALL BE PLACE ON THE MANHOLE AND THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9" (229 MM) HG. THE VACUUM SHALL NOT DROP BELOW 9" (229 MM) HG FOR THE FOLLOWING TIME PERIODS FOR EACH SIZE OF MANHOLE:
   - A) 48-INCH DIAMETER - 60 SECONDS
   - B) 60-INCH DIAMETER - 75 SECONDS
   - C) 72-INCH DIAMETER - 90 SECONDS
   - D) 84-INCH DIAMETER - 105 SECONDS

   ANY MANHOLES THAT FAIL THE TEST SHALL BE SEALED AND RE-TESTED UNTIL ACCEPTABLE.

t. THE CONTRACTOR SHALL PROVIDE INTERNAL TELEVISED INSPECTION OF ALL INSTALLED SANITARY SEWER, LATERALS, MANHOLES AND CONNECTIONS TO THE PUBLIC SYSTEM. FOLLOWING COMPLETION OF TELEVISING WORK, THE CONTRACTOR SHALL SUBMIT VIDEO RECORDINGS ON DVD OR FLASH DRIVE ALONG WITH A COMPREHENSIVE TELEVISING REPORT WHICH WILL INDICATE THE LOCATION, FOOTAGES AND NATURE OF ANY DEFECTS. PRIOR TO FINAL ACCEPTANCE, THESE DEFECTS SHALL BE REPAIRED TO THE SATISFACTION OF THE WATER/WASTEWATER UTILITY AND RE-TELEVISED.

u. CONTRACTOR WORK HOURS ARE ONLY ALLOWED FROM 7:00 A.M. TO 5:00 P.M., MONDAY THROUGH SATURDAY. NO WORK SHALL BE PERMITTED ON SUNDAYS.

v. SANITARY PIPES WITH LESS THAN 4 FEET OR MORE THAN 25 FEET OF COVER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPING (CLASS 50, MINIMUM) AND ENCASED IN POLYWRAP.

w. ALL EXCAVATIONS MORE THAN 20 FEET DEEP MUST BE PROTECTED BY A SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.

x. CONTRACTOR SHALL MAINTAIN 2' MINIMUM CLEARANCE BETWEEN EXISTING UTILITIES AND NEW FOUNDATIONS AND UNDERGROUND FACILITIES. IN AREAS WHERE FOUNDATIONS AND UNDERGROUND FACILITIES ARE PROPOSED ADJACENT TO EXISTING UTILITIES, THE CONTRACTOR SHALL POT HOLE BY VACUUM EXCAVATION OR HAND EXCAVATION TO LOCATE THE EXISTING UTILITY TO VERIFY MINIMUM CLEARANCE REQUIREMENT.

y. FENCES SHALL BE INSTALLED A MINIMUM OF 5 FEET FROM ANY WATER OR SANITARY MAINS WHEN RUNNING PARALLEL WITH THEM. WHERE FENCES ARE INSTALLED CROSSING WATER OR SANITARY MAINS, THE POSTS SHALL BE LOCATED TO HAVE THE MAIN BETWEEN THEM.

z. ALL BRASS COMPONENTS SHALL BE CERTIFIED TO BE LEAD FREE IN COMPLIANCE WITH NSF 61 AND NSF 372 AND IDENTIFIED WITH APPLICABLE MARKINGS.

REVISIONS

NO.	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11-03-2023

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

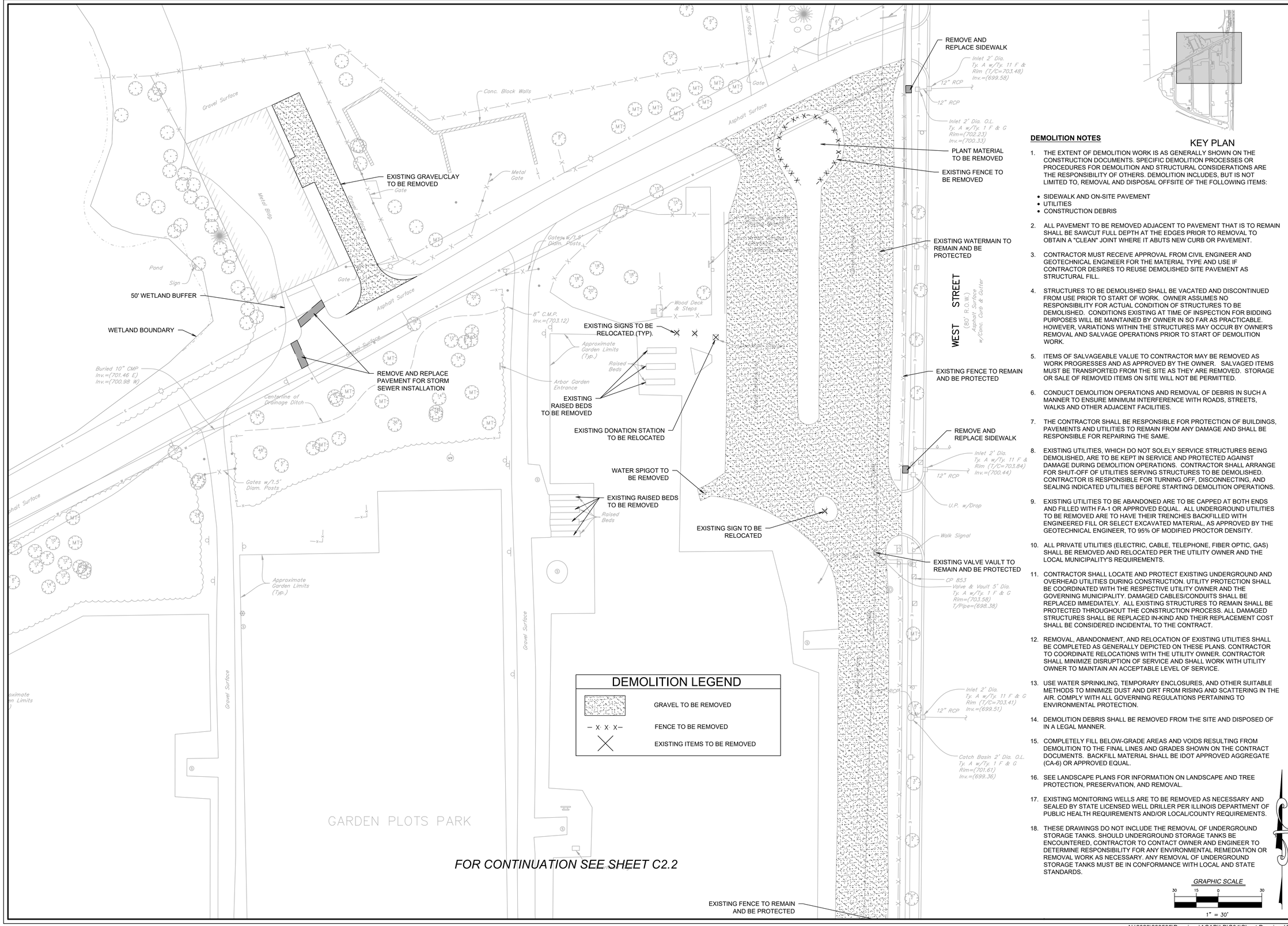
PROJECT NO.: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JL
DRAWN BY: RI

SPECIFICATIONS

RON ORY COMMUNITY GARDEN IMPROVEMENTS
NAPERVILLE — FINAL ENGINEERING — ILLINOIS

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
C1.1



DEMOLITION LEGEND

- GRAVEL TO BE REMOVED
- FENCE TO BE REMOVED
- EXISTING ITEMS TO BE REMOVED

KEY PLAN

DEMOLITION NOTES

1. THE EXTENT OF DEMOLITION WORK IS AS GENERALLY SHOWN ON THE CONSTRUCTION DOCUMENTS. SPECIFIC DEMOLITION PROCESSES OR PROCEDURES FOR DEMOLITION AND STRUCTURAL CONSIDERATIONS ARE THE RESPONSIBILITY OF OTHERS. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, REMOVAL AND DISPOSAL OFFSITE OF THE FOLLOWING ITEMS:
   - SIDEWALK AND ON-SITE PAVEMENT
   - UTILITIES
   - CONSTRUCTION DEBRIS
2. ALL PAVEMENT TO BE REMOVED ADJACENT TO PAVEMENT THAT IS TO REMAIN SHALL BE SAWCUT FULL DEPTH AT THE EDGES PRIOR TO REMOVAL TO OBTAIN A "CLEAN" JOINT WHERE IT ABUTS NEW CURB OR PAVEMENT.
3. CONTRACTOR MUST RECEIVE APPROVAL FROM CIVIL ENGINEER AND GEOTECHNICAL ENGINEER FOR THE MATERIAL TYPE AND USE IF CONTRACTOR DESIRES TO REUSE DEMOLISHED SITE PAVEMENT AS STRUCTURAL FILL.
4. STRUCTURES TO BE DEMOLISHED SHALL BE VACATED AND DISCONTINUED FROM USE PRIOR TO START OF WORK. OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF STRUCTURES TO BE DEMOLISHED. CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSES WILL BE MAINTAINED BY OWNER IN SO FAR AS PRACTICABLE. HOWEVER, VARIATIONS WITHIN THE STRUCTURES MAY OCCUR BY OWNER'S REMOVAL AND SALVAGE OPERATIONS PRIOR TO START OF DEMOLITION WORK.
5. ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED AS WORK PROGRESSES AND AS APPROVED BY THE OWNER. SALVAGED ITEMS MUST BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED.
6. CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF BUILDINGS, PAVEMENTS AND UTILITIES TO REMAIN FROM ANY DAMAGE AND SHALL BE RESPONSIBLE FOR REPAIRING THE SAME.
8. EXISTING UTILITIES, WHICH DO NOT SOLELY SERVICE STRUCTURES BEING DEMOLISHED, ARE TO BE KEPT IN SERVICE AND PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS. CONTRACTOR SHALL ARRANGE FOR SHUT-OFF OF UTILITIES SERVING STRUCTURES TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR TURNING OFF, DISCONNECTING, AND SEALING INDICATED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS.
9. EXISTING UTILITIES TO BE ABANDONED ARE TO BE CAPPED AT BOTH ENDS AND FILLED WITH FA-1 OR APPROVED EQUAL. ALL UNDERGROUND UTILITIES TO BE REMOVED ARE TO HAVE THEIR TRENCHES BACKFILLED WITH ENGINEERED FILL OR SELECT EXCAVATED MATERIAL, AS APPROVED BY THE GEOTECHNICAL ENGINEER, TO 95% OF MODIFIED PROCTOR DENSITY.
10. ALL PRIVATE UTILITIES (ELECTRIC, CABLE, TELEPHONE, FIBER OPTIC, GAS) SHALL BE REMOVED AND RELOCATED PER THE UTILITY OWNER AND THE LOCAL MUNICIPALITY'S REQUIREMENTS.
11. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UNDERGROUND AND OVERHEAD UTILITIES DURING CONSTRUCTION. UTILITY PROTECTION SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER AND THE GOVERNING MUNICIPALITY. DAMAGED CABLES/CONDUITS SHALL BE REPLACED IMMEDIATELY. ALL EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS. ALL DAMAGED STRUCTURES SHALL BE REPLACED IN-KIND AND THEIR REPLACEMENT COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
12. REMOVAL, ABANDONMENT, AND RELOCATION OF EXISTING UTILITIES SHALL BE COMPLETED AS GENERALLY DEPICTED ON THESE PLANS. CONTRACTOR TO COORDINATE RELOCATIONS WITH THE UTILITY OWNER. CONTRACTOR SHALL MINIMIZE DISRUPTION OF SERVICE AND SHALL WORK WITH UTILITY OWNER TO MAINTAIN AN ACCEPTABLE LEVEL OF SERVICE.
13. USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO MINIMIZE DUST AND DIRT FROM RISING AND SCATTERING IN THE AIR. COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
14. DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
15. COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION TO THE FINAL LINES AND GRADES SHOWN ON THE CONTRACT DOCUMENTS. BACKFILL MATERIAL SHALL BE IDOT APPROVED AGGREGATE (CA-6) OR APPROVED EQUAL.
16. SEE LANDSCAPE PLANS FOR INFORMATION ON LANDSCAPE AND TREE PROTECTION, PRESERVATION, AND REMOVAL.
17. EXISTING MONITORING WELLS ARE TO BE REMOVED AS NECESSARY AND SEALED BY STATE LICENSED WELL DRILLER PER ILLINOIS DEPARTMENT OF PUBLIC HEALTH REQUIREMENTS AND/OR LOCAL/COUNTY REQUIREMENTS.
18. THESE DRAWINGS DO NOT INCLUDE THE REMOVAL OF UNDERGROUND STORAGE TANKS. SHOULD UNDERGROUND STORAGE TANKS BE ENCOUNTERED, CONTRACTOR TO CONTACT OWNER AND ENGINEER TO DETERMINE RESPONSIBILITY FOR ANY ENVIRONMENTAL REMEDIATION OR REMOVAL WORK AS NECESSARY. ANY REMOVAL OF UNDERGROUND STORAGE TANKS MUST BE IN CONFORMANCE WITH LOCAL AND STATE STANDARDS.

GRAPHIC SCALE
30 15 0 30
1" = 30'

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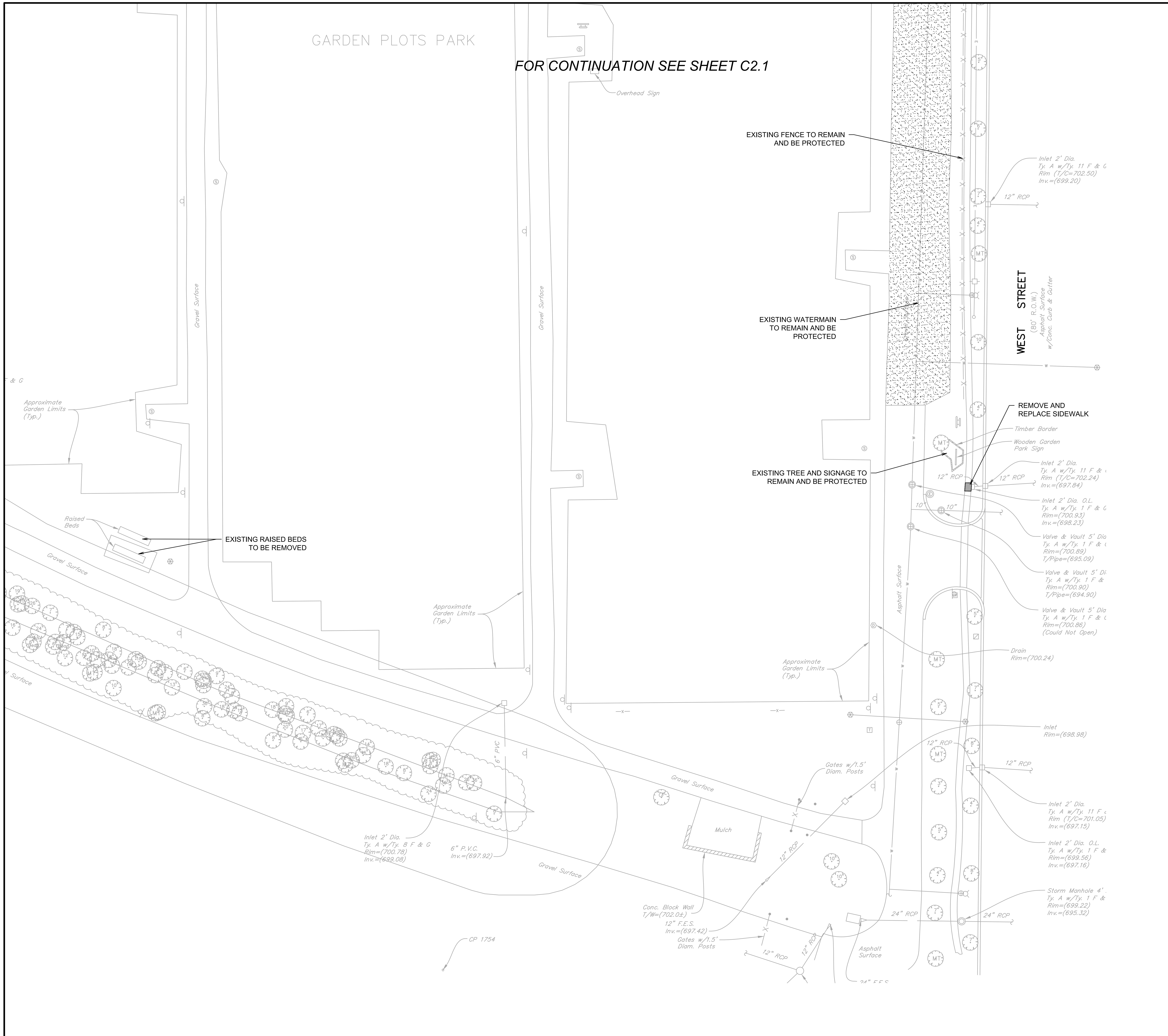
DEMOLITION PLAN - AREA 1

RON ORY COMMUNITY GARDEN IMPROVEMENTS
NAPERVILLE ILLINOIS
FINAL ENGINEERING

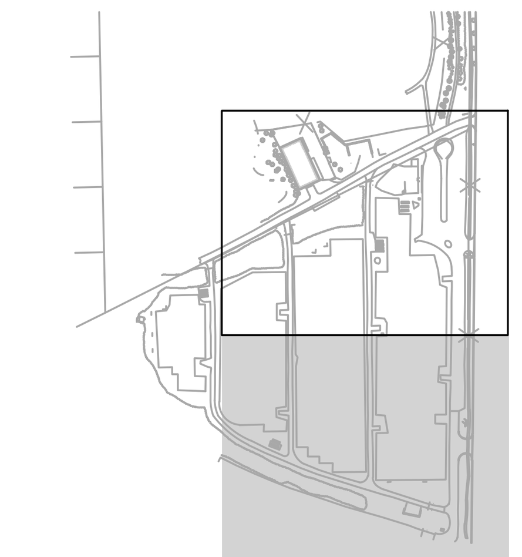
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
C2.1


GARDEN PLOTS PARK
FOR CONTINUATION SEE SHEET C2.1
EXISTING FENCE TO REMAIN AND BE PROTECTED
EXISTING WATERMAIN TO REMAIN AND BE PROTECTED
REMOVE AND REPLACE SIDEWALK
EXISTING TREE AND SIGNAGE TO REMAIN AND BE PROTECTED
EXISTING RAISED BEDS TO BE REMOVED
WEST STREET
(80' R.O.W.)
Asphalt Surface w/Conc. Curb & Gutter
Overhead Sign
Gravel Surface
Approximate Garden Limits (Typ.)
Raised Beds
Timber Border
Wooden Garden Park Sign
Inlet 2' Dia. Ty. A w/Ty. 11 F & G Rim (T/C=702.50) Inv.=(699.20)
12" RCP
Drain Rim=(700.24)
Inlet Rim=(698.98)
Asphalt Surface
Mulch
Gates w/1.5' Diam. Posts
Conc. Block Wall T/W=(702.0±)
12" F.E.S. Inv.=(697.42)
6" P.V.C. Inv.=(697.92)
Inlet 2' Dia. Ty. A w/Ty. B F & G Rim=(700.78) Inv.=(699.08)
24" RCP
CP 1754

SEE SHEET C2.1 FOR DEMOLITION NOTES

KEY PLAN



DEMOLITION LEGEND	
[gravel hatch]	GRAVEL TO BE REMOVED

GRAPHIC SCALE

1" = 30'

ORIGINAL ISSUE DATE: 11-03-2023

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT NO.: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

DEMOLITION PLAN - AREA 2

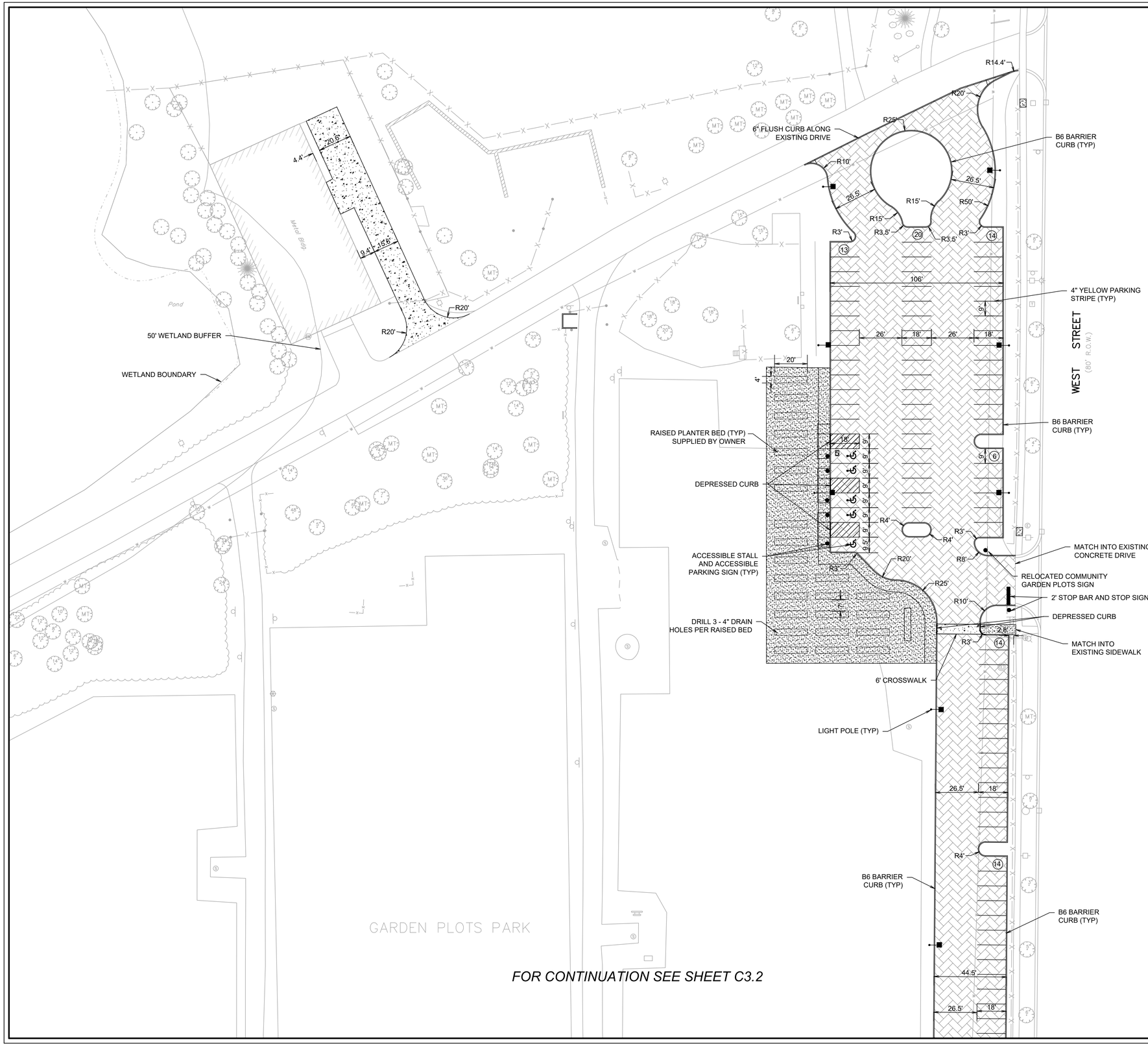
RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE FINAL ENGINEERING ILLINOIS

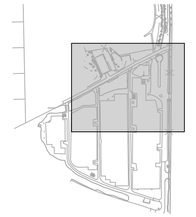
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.

C2.2



FOR CONTINUATION SEE SHEET C3.2



KEY PLAN

NOTES:

1. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED YELLOW UNLESS OTHERWISE NOTED.
3. BUILDING DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
4. ALL CURB AND GUTTER SHALL BE B6 BARRIER UNLESS OTHERWISE NOTED.

CURB LEGEND

- B6 BARRIER CURB
- B6 BARRIER DEPRESSED CURB

PARKING SUMMARY

REGULAR STALLS	= 95
ACCESSIBLE STALLS	= 5
TOTAL STALLS	= 100

PAVING LEGEND

PERMEABLE PAVERS

SEE DETAIL ON SHEET C6.0

CONCRETE SIDEWALK

5" P.C. CONCRETE WITH
4" AGGREGATE BASE COURSE, CA-6

CONCRETE PAVEMENT

8" P.C. CONCRETE WITH
(6X6/W2.9=W2.9) W.W.F.
4" AGGREGATE BASE COURSE, CA-6

GRAPHIC SCALE
30 15 0 30
1" = 30'

REVISIONS

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 10-23-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

LAYOUT AND PAVING PLAN - AREA 1

RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE ILLINOIS

FINAL ENGINEERING

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Woodridge, IL 60517
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DRAWING NO.
C3.1

GARDEN PLOTS PARK

FOR CONTINUATION SEE SHEET C3.1

B6 BARRIER CURB (TYP)

44.5'

26.5'

18'

R4'

14

LIGHT POLE (TYP)

WEST STREET (80' R.O.W.)

B6 BARRIER CURB (TYP)

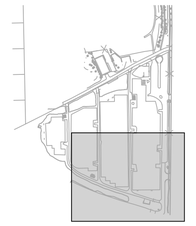
6" FLUSH CURB ALONG EXISTING ASPHALT DRIVE

23.6'

EX. DRIVEWAY

R3'

1' CURB TRANSITION FROM FULL HEIGHT TO ZERO HEIGHT



KEY PLAN

NOTES:

1. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED YELLOW UNLESS OTHERWISE NOTED.
3. BUILDING DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
4. ALL CURB AND GUTTER SHALL BE B6 BARRIER UNLESS OTHERWISE NOTED.

CURB LEGEND

- B6 BARRIER CURB
- B6 BARRIER DEPRESSED CURB

PARKING SUMMARY

REGULAR STALLS	= 145
ACCESSIBLE STALLS	= 5
TOTAL STALLS	= 150

PAVING LEGEND

PERMEABLE PAVERS

SEE DETAIL ON SHEET C6.0

CONCRETE SIDEWALK

5" P.C. CONCRETE WITH
4" AGGREGATE BASE COURSE, CA-6

CONCRETE PAVEMENT

8" P.C. CONCRETE WITH
(6X6/W2.9=W2.9) W.W.F.
4" AGGREGATE BASE COURSE, CA-6

GRAPHIC SCALE

30 15 0 30

1" = 30'

REVISIONS

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 10-23-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

LAYOUT AND PAVING PLAN - AREA 2

RON ORY COMMUNITY GARDEN IMPROVEMENTS
NAPERVILLE ILLINOIS
FINAL ENGINEERING

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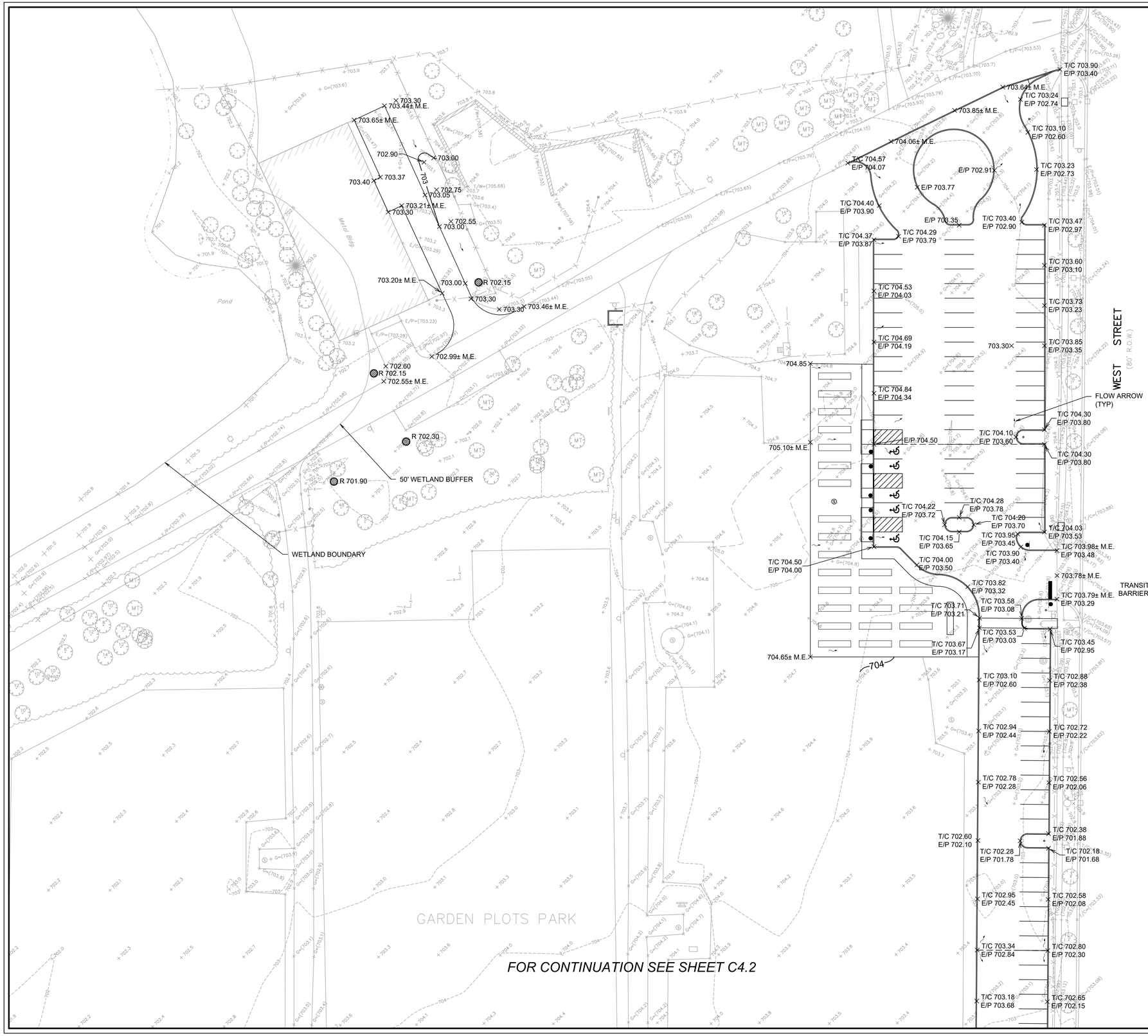
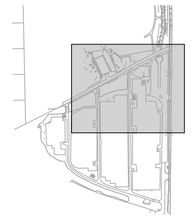
DRAWING NO.
C3.2

N:\2023\230505\Drawings\ACAD\LD\S04\Sheet Drawings\C3.1 Lay230505.dwg 6/5/2024

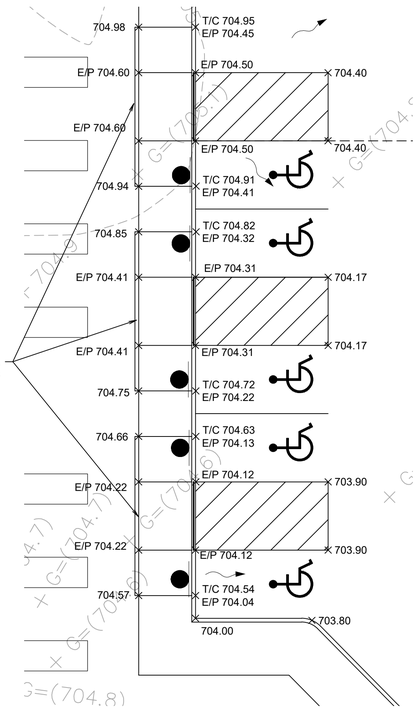




KEY PLAN

NOTES:

1. ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. SUBTRACT TOPSOIL THICKNESS OR PAVEMENT SECTION TO ESTABLISH SUBGRADE ELEVATIONS.
3. PROVIDE 1.50% CROSS SLOPE AND 4.00% MAXIMUM LONGITUDINAL SLOPE ON ALL SIDEWALKS AND PEDESTRIAN PATHS UNLESS OTHERWISE INDICATED. PLEASE NOTE THAT THE ILLINOIS ACCESSIBILITY CODE REQUIRES A MAXIMUM CONSTRUCTED CROSS SLOPE OF 2.00% AND LONGITUDINAL SLOPE OF 5.00%



ADA BLOWUP
SCALE: 1" = 10'

GRAPHIC SCALE
30 15 0 30
1" = 30'

REVISIONS			
NO.	DATE	DESCRIPTION	
1	01-17-24	REVISED PER OWNER COMMENTS	
2	04-15-24	REVISED PER CITY COMMENTS	
3	05-07-24	REVISED PER CITY COMMENTS	
4	06-05-24	REVISED PER INTERNAL REVIEW	

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

GRADING PLAN - AREA 1

RON ORY COMMUNITY GARDEN IMPROVEMENTS
NAPERVILLE ILLINOIS
FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
C4.1

N:\2023\230505\Drawings\ACAD\LD\S04\Sheet Drawings\C4.1 Grd230505.dwg 6/5/2024

FOR CONTINUATION SEE SHEET C4.1

GARDEN PLOTS PARK

T/C 702.00
E/P 702.10

T/C 702.28
E/P 701.78

E/P 701.88

T/C 702.18
E/P 701.68

T/C 702.95
E/P 702.45

T/C 702.58
E/P 702.08

T/C 703.34
E/P 702.84

T/C 702.80
E/P 702.30

T/C 703.18
E/P 703.68

T/C 702.65
E/P 702.15

T/C 702.49
E/P 701.99

T/C 702.76
E/P 702.26

T/C 702.31
E/P 701.81

T/C 702.40
E/P 701.90

T/C 702.36
E/P 701.76

T/C 702.03
E/P 701.53

T/C 702.00
E/P 701.50

T/C 701.75
E/P 701.25

T/C 701.85
E/P 701.35

T/C 701.46
E/P 700.96

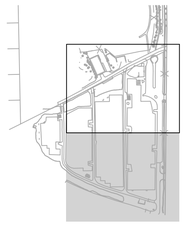
FLOW ARROW
(TYP)

701.32± M.E.

T/C 701.18
E/P 700.68

701.38± M.E.

WEST STREET
(80' R.O.W.)



KEY PLAN

NOTES:

1. ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. SUBTRACT TOPSOIL THICKNESS OR PAVEMENT SECTION TO ESTABLISH SUBGRADE ELEVATIONS.
3. PROVIDE 1.50% CROSS SLOPE AND 4.00% MAXIMUM LONGITUDINAL SLOPE ON ALL SIDEWALKS AND PEDESTRIAN PATHS UNLESS OTHERWISE INDICATED. PLEASE NOTE THAT THE ILLINOIS ACCESSIBILITY CODE REQUIRES A MAXIMUM CONSTRUCTED CROSS SLOPE OF 2.00% AND LONGITUDINAL SLOPE OF 5.00%

GRAPHIC SCALE
30 15 0 30
1" = 30'

REVISIONS

NO.	DATE	DESCRIPTION
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3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

GRADING PLAN - AREA 2

RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE ILLINOIS

FINAL ENGINEERING

7325 Janes Avenue
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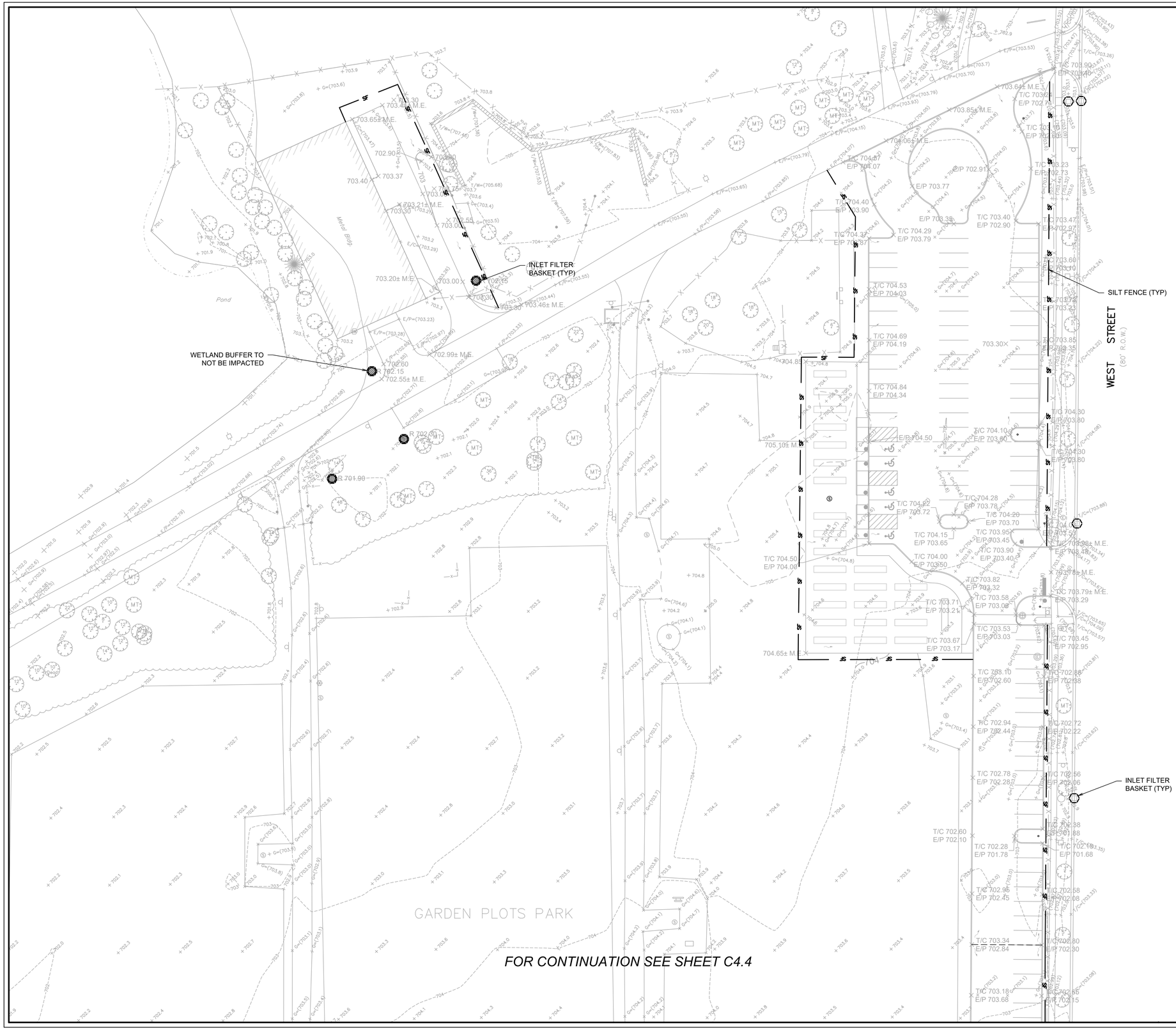
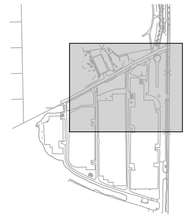
DRAWING NO.

C4.2

N:\2023\230505\Drawings\ACAD\LD\S04\Sheet Drawings\C4.1 Grd230505.dwg 6/5/2024





KEY PLAN

EROSION CONTROL NOTES

1. CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR TO INSTALL SILT FENCE PRIOR TO COMMENCEMENT OF ANY EARTHWORK. CONTRACTOR TO MAINTAIN SILT FENCE AS SHOWN AND INSTALL ADDITIONAL SILT FENCE WHEREVER NECESSARY THROUGHOUT CONSTRUCTION ACTIVITIES TO MINIMIZE SOIL EROSION.
3. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL OPEN LID STRUCTURES. SEE INLET PROTECTION DETAIL ON SHEET C4.5.
4. EROSION CONTROL BLANKET (ROLLMAX ERONET S150 OR APPROVED EQUAL) SHALL BE PLACED ON ALL AREAS WITH SIDE SLOPES OF 4:1 OR GREATER, AND IN BOTTOM AND SIDE SLOPES OF SWALES WHERE NOTED.
5. ALL SEDIMENT AND EROSION CONTROL MEASURES IN AND AROUND THE PROPOSED IMPROVEMENTS ARE TO REMAIN IN PLACE AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES UNTIL THE PROPOSED IMPROVEMENTS ARE COMPLETED AND THE SITE ADEQUATELY STABILIZED.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY V3 COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS.

LEGEND

- INLET PROTECTION FILTER
- SILT FENCE
- CONCRETE WASHOUT
- EROSION CONTROL BLANKET
- RIP RAP

GRAPHIC SCALE

30 15 0 30

1" = 30'

REVISIONS

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 10-23-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

EROSION CONTROL PLAN - AREA 1

RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE ILLINOIS

FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.

C4.3

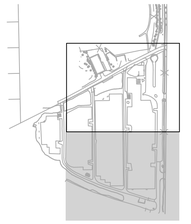
FOR CONTINUATION SEE SHEET C4.3

GARDEN PLOTS PARK

WEST STREET (80' R.O.W.)

SILT FENCE (TYP)

INLET FILTER BASKET (TYP)



KEY PLAN

EROSION CONTROL NOTES

1. CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR TO INSTALL SILT FENCE PRIOR TO COMMENCEMENT OF ANY EARTHWORK. CONTRACTOR TO MAINTAIN SILT FENCE AS SHOWN AND INSTALL ADDITIONAL SILT FENCE WHEREVER NECESSARY THROUGHOUT CONSTRUCTION ACTIVITIES TO MINIMIZE SOIL EROSION.
3. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL OPEN LID STRUCTURES. SEE INLET PROTECTION DETAIL ON SHEET C4.5.
4. EROSION CONTROL BLANKET (ROLLMAX ERONET S150 OR APPROVED EQUAL) SHALL BE PLACED ON ALL AREAS WITH SIDE SLOPES OF 4:1 OR GREATER, AND IN BOTTOM AND SIDE SLOPES OF SWALES WHERE NOTED.
5. ALL SEDIMENT AND EROSION CONTROL MEASURES IN AND AROUND THE PROPOSED IMPROVEMENTS ARE TO REMAIN IN PLACE AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES UNTIL THE PROPOSED IMPROVEMENTS ARE COMPLETED AND THE SITE ADEQUATELY STABILIZED.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY V3 COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS.

LEGEND

- INLET PROTECTION FILTER
- SILT FENCE
- CONCRETE WASHOUT
- EROSION CONTROL BLANKET
- RIP RAP

GRAPHIC SCALE

30 15 0 30

1" = 30'

REVISIONS

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 10-23-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

EROSION CONTROL PLAN - AREA 2

RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE ILLINOIS

FINAL ENGINEERING

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Woodridge, IL 60517
630.724.9200 phone
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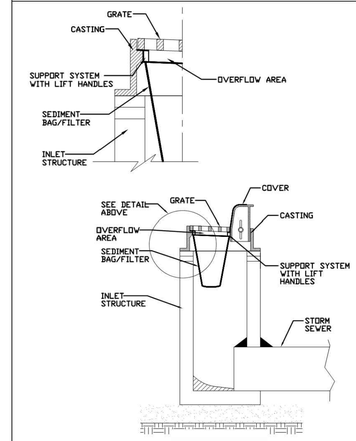
DRAWING NO.

C4.4

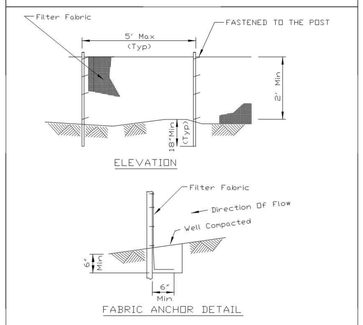
INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION



REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

STANDARD DVG NO.
IUM-561D
SHEET 1 OF 1
DATE 01-11-11

SILT FENCE PLAN

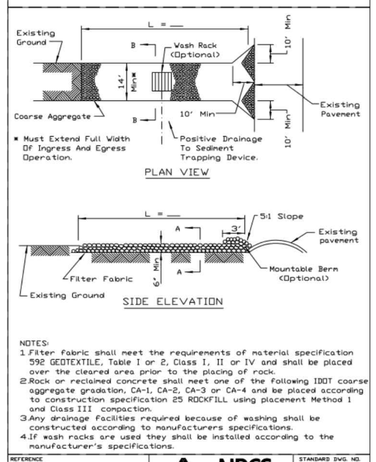


NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
3. Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

STANDARD DVG NO.
IUM-620A
SHEET 1 OF 2
DATE 04-15-2021

STABILIZED CONSTRUCTION ENTRANCE PLAN



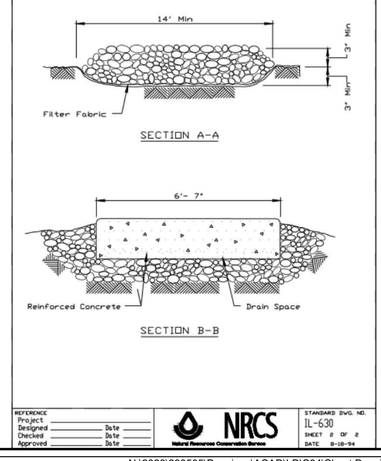
NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

NRCS Natural Resources Conservation Service

STANDARD DVG NO.
IL-630
SHEET 1 OF 2
DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



REFERENCE
Project
Designed ____ Date ____
Checked ____ Date ____
Approved ____ Date ____

NRCS Natural Resources Conservation Service

STANDARD DVG NO.
IL-630
SHEET 2 OF 2
DATE 8-18-94

REVISIONS

NO.	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11-03-2023

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

PROJECT NO.: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JL
DRAWN BY: RI

EROSION CONTROL DETAILS
RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE ILLINOIS

FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.

C4.5

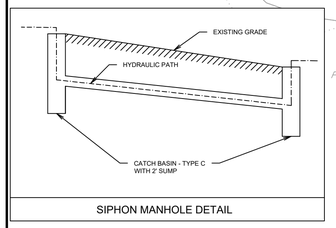
N:\2023\230505\Drawings\ACAD\LD\S04\Sheet Drawings\C4.4 Eros230505.dwg 6/5/2024

ST 1-1
2' CB
RIM: 701.90
IE: 698.10 (NE)

ST 1-2
2' CB
RIM: 702.30
IE: 698.60 (NW)
IE: 698.60 (SW)

ST 1-3
2' CB
RIM: 702.15
IE: 699.04 (NE)
IE: 699.04 (SE)

ST 1-4
2' CB
RIM: 702.15
IE: 699.90 (SW)



SIPHON MANHOLE DETAIL

VERIFY LOCATION AND DEPTH OF ELECTRIC LINE PRIOR TO INSTALLATION OF STORM SEWER

50' WETLAND BUFFER

WETLAND BOUNDARY

Buried 10" CMP
Inv.=(701.46 E)
Inv.=(700.98 W)

Centerline of Drainage Ditch

Metal Bldg

Pond

8" C.M.P.
Inv.=(703.12)

ST 1-4

85 LF - 8" PVC
@ 1.01%

ST 1-3

46 LF - 8" PVC
@ 0.95%

C05

ST 1-2

ST 1-1

51 LF - 8" PVC
@ 0.98%

RELOCATED WATER SPIGOT

LIGHT POLE (TYP)

WEST STREET
(80' R.O.W.)

C01

Inlet 2' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=703.48)
Inv.=(699.58)

12" RCP

IE= 700.33

12" RCP

CONNECT TO EXISTING STRUCTURE

Inlet 2' Dia. O.L.
Ty. A w/Ty. 1 F & G
Rim=(702.23)
Inv.=(700.33)

SOLID WALL PVC
OUTSIDE OF
PERMEABLE PAVERS

CLEANOUT
RIM: 703.22
IE: 700.49

4" PERFORATED PVC
@ 0.50% SLOPE
MINIMUM (TYP)

MAINTAIN 10 ' HORIZONTAL SEPARATION BETWEEN PROPOSED UNDERDRAIN AND EXISTING WATERMMAIN

CLEANOUT
RIM: 704.15
IE: 701.45

CLEANOUT
RIM: 704.18
IE: 700.64

IE= 700.44±

C02

Inlet 2' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=703.84)
Inv.=(700.44)

12" RCP

CONNECT TO EXISTING STRUCTURE

U.P. w/Drop

SOLID WALL PVC
OUTSIDE OF
PERMEABLE PAVERS

Walk Signal

CLEANOUT
RIM: 703.66
IE: 700.64

Valve & Vault 5' Dia.
Ty. A w/Ty. 1 F & G
Rim=(703.58)
T/Pipe=(698.38)

12" DIMM

4" PERFORATED PVC
@ 0.50% SLOPE
MINIMUM (TYP)

12" RCP

Inlet 2' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=703.41)
Inv.=(699.51)

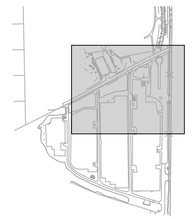
CLEANOUT
RIM: 702.28
IE: 699.93

Catch Basin 2' Dia. O.L.
Ty. A w/Ty. 1 F & G
Rim=(701.61)
Inv.=(699.36)

GARDEN PLOTS PARK

CLEANOUT
RIM: 701.90±
IE: 700.60

FOR CONTINUATION SEE SHEET C5.2


KEY PLAN

NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING UTILITY WORK. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
2. UNDERGROUND UTILITY INFORMATION IS BASED ON AVAILABLE INFORMATION PRESENTED AT TIME OF SURVEY. CONTRACTOR TO CALL "JULIE" (1-800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. UNLESS INDICATED OTHERWISE, FRAME AND OPEN LID STORM STRUCTURES IN PAVEMENT SHALL BE NEENAH R-2502 WITH TYPE D LID OR APPROVED EQUAL, AND FRAME AND CLOSED LID STORM STRUCTURES IN PAVEMENT SHALL BE NEENAH R-1772 OR APPROVED EQUAL. FRAME AND OPEN LID STORM STRUCTURES IN OPEN SPACE SHALL BE R-4340-B OR APPROVED EQUAL. ALL FRAME AND GRATES SHALL CONFORM TO LOCAL MUNICIPALITY REQUIREMENTS. FRAME AND CLOSED LID STORM STRUCTURES LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL BE "NEENAH R-1772 WITH TYPE C LID (OR EQUIVALENT) WITH PERMA-GRIP SURFACE. DRILL 1 - 1" DIAMETER LIFT HOLE INSTEAD OF A STANDARD PICK HOLE."
4. WATER MAIN QUALITY PIPE SHALL BE REQUIRED WHERE ANY SEWER CROSSES OVER ANY WATER MAIN.
5. CONCRETE ADJUSTING RINGS ARE NOT ALLOWED BY THE CITY OF NAPERVILLE.
6. LIGHT POLES SHOWN FOR COORDINATION OR LOCATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE PLAN SHEETS P1.1-P1.2 FOR SITE LIGHTING INFORMATION.

UTILITY CROSSINGS

C01 4" STM B/P 700.33
EX. 12" WM T/P 698.05 ± V.I.F.

C02 4" STM B/P 700.76
EX. 12" WM T/P 698.85 ± V.I.F.

C03 4" STM B/P 698.90
EX. 6" WM T/P 696.30 ± V.I.F.

C04 4" STM B/P 698.70
EX. WM T/P 696.10 ± V.I.F.

C05 8" STM B/P 698.67
EX. WM T/P 697.17
CONTRACTOR TO DIP WM IF LESS THAN 1.5' OF CLEARANCE FROM TOP OF WM TO BOTTOM OF STORM

GRAPHIC SCALE
30 15 0 30
1" = 30'

REVISIONS

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

UTILITY PLAN - AREA 1

RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE ILLINOIS

FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
C5.1

N:\2023\230505\Drawings\ACAD\LD\S04\Sheet Drawings\C5.1 Util230505.dwg 6/5/2024

GARDEN PLOTS PARK

FOR CONTINUATION SEE SHEET C5.1

CLEANOUT
RIM: 701.90±
IE: 700.60

Drain
Rim=(702.10)

6" P.V.C.
Inv.=(701.29)

4" PERFORATED PVC
@ 0.50% SLOPE
MINIMUM (TYP)

6" P.V.C.
Inv.=(701.05)

CLEANOUT
RIM: 700.90±
IE: 699.70

CONNECT TO EXISTING
STRUCTURE

Inlet 2' Dia.
Ty. A w/Ty. B F & G
Rim=(701.34)
Inv.=(699.44)

IE= 699.44±

4" PERFORATED PVC
@ 0.50% SLOPE
MINIMUM (TYP)

CLEANOUT
RIM: 701.90±
IE: 700.40

CLEANOUT
RIM: 702.80±
IE: 701.30

4" PERFORATED PVC
@ 0.50% SLOPE
MINIMUM (TYP)

CONNECT TO EXISTING
STRUCTURE

IE= 699.08±

Inlet 2' Dia.
Ty. A w/Ty. B F & G
Rim=(700.78)
Inv.=(699.08)

6" P.V.C.
Inv.=(697.92)

6" PVC

LIGHT POLE (TYP)

WEST STREET
(80' R.O.W.)

C03

C04

Inlet 2' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=702.50)
Inv.=(699.20)

12" RCP

4" PERFORATED PVC
@ 0.50% SLOPE
MINIMUM (TYP)

CLEANOUT
RIM: 701.25
IE: 698.59

SOLID WALL PVC
OUTSIDE OF
PERMEABLE PAVERS

Inlet 2' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=702.24)
Inv.=(697.84)

12" RCP

IE= 698.23

CONNECT TO EXISTING
STRUCTURE

Inlet 2' Dia. O.L.
Ty. A w/Ty. 1 F & G
Rim=(700.93)
Inv.=(698.23)

Valve & Vault 5' Dia.
Ty. A w/Ty. 1 F & G
Rim=(700.89)
T/Pipe=(695.09)

Valve & Vault 5' Dia.
Ty. A w/Ty. 1 F & G
Rim=(700.90)
T/Pipe=(694.90)

Valve & Vault 5' Dia.
Ty. A w/Ty. 1 F & G
Rim=(700.86)
(Could Not Open)

Drain
Rim=(700.24)

Inlet
Rim=(698.98)

12" RCP

12" RCP

Inlet 2' Dia.
Ty. A w/Ty. 11 F & G
Rim (T/C=701.05)
Inv.=(697.15)

Inlet 2' Dia. O.L.
Ty. A w/Ty. 1 F & G
Rim=(699.56)
Inv.=(697.16)

Storm Manhole 4' Dia. O.L.
Ty. A w/Ty. 1 F & G
Rim=(699.22)
Inv.=(695.32)

12" RCP

12" F.E.S.
Inv.=(697.42)

24" RCP

24" RCP

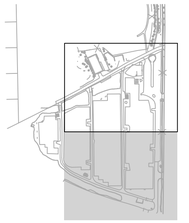
12" RCP

12" RCP

24" F.E.S.
Inv.=(696.54)

RCP" F.E.S.
Inv.=(696.65)

Catch Basin 4' Dia. O.L.
Ty. A w/Ty. 1 F & G
Rim=(699.65)
Inv.=(696.70)



KEY PLAN

NOTES:

1. CONTRACTOR TO FIELD VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING UTILITY WORK. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
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GRAPHIC SCALE
30 15 0 30
1" = 30'

REVISIONS

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2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

UTILITY PLAN - AREA 2

RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE ILLINOIS

FINAL ENGINEERING

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Woodridge, IL 60517
630.724.9200 phone
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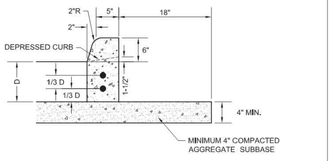
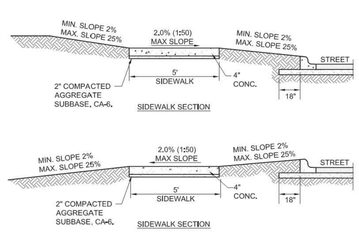
DRAWING NO.
C5.2



NOTES:

1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

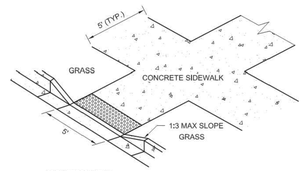
City of Naperville STANDARD DETAIL | TYPE B BARRIER CURB | REVISED: 01/01/2013 | SHEET 1 OF 1 | PAVEMENT 23 | 590.23



NOTES:

1. CONCRETE SHALL BE IDOT CLASS SI.
2. MINIMUM SIDEWALK THICKNESS SHALL BE 4".
3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR RESIDENTIAL DRIVEWAYS AND 8" FOR COMMERCIAL DRIVEWAYS.
4. MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (20:1), FOR ANY SLOPE IN EXCESS OF 5%, ALL REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE (LATEST EDITION) SHALL BE MET.
5. MINIMUM TRANSVERSE SLOPE SHALL BE 1.0% (1:100), MAXIMUM TRANSVERSE SLOPE SHALL BE 2.0% (1:50).
6. A MINIMUM 2" AGGREGATE SUBBASE (CA-6) SHALL BE PROVIDED. (4" THROUGH COMMERCIAL DRIVEWAYS).
7. AGGREGATE SUBBASE SHALL BE MECHANICALLY COMPACTED.
8. ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
9. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
10. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

City of Naperville STANDARD DETAIL | SIDEWALK | REVISED: 01/01/2013 | SHEET 1 OF 1 | PAVEMENT 30 | 590.30



ISOMETRIC VIEW

NOTES:

1. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK THICKNESS AT CURB RAMPS SHALL BE A MINIMUM OF 6" PCC ON 2" AGGREGATE SUB BASE.
3. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
4. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

APPLICABLE IDOT STANDARD DETAILS:

424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-01	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-01	DEPRESSED CORNER FOR SIDEWALKS
424026-01	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
424031-01	MEDIAN PEDESTRIAN CROSSINGS
606001-05	CONCRETE CURB TYPE B AND COMB CONCRETE CURB AND GUTTER

APPROVED ADA DETECTABLE WARNING TILES:

1. ADA SOLUTIONS - CAST IN PLACE REPLACEABLE
2. ARMOR TILE - CAST IN PLACE
3. DETECTILE - SUMTEK II

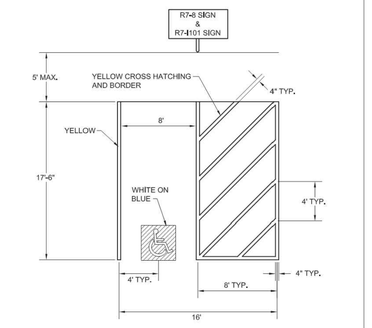
City of Naperville STANDARD DETAIL | CURB RAMPS | REVISED: 06/14/2013 | SHEET 1 OF 1 | PAVEMENT 32 | 590.32

NOTES FOR ACCESSIBLE PARKING SPACES:

1. EACH PARKING SPACE SHALL BE AT LEAST 16' WIDE, WITH AN 8' WIDE ACCESS AISLE.
2. ADJACENT ACCESSIBLE PARKING SHALL NOT SHARE A COMMON ACCESS AISLE.
3. SIGNS SHALL BE VERTICALLY MOUNTED ON A PERMANENT POST OR A WALL AT THE FRONT CENTER BETWEEN THE SPACE AND THE ACCESS AISLE NO MORE THAN 5' HORIZONTALY FROM THE FRONT OF A PARKING SPACE AND SET A MINIMUM OF 4' FROM THE FINISHED GRADE TO THE BOTTOM OF THE "$250 FINE" SIGN.
4. ACCESSIBLE PARKING SIGNS SHALL ALSO EXHIBIT THE WORDS "$250 FINE".
5. PARKING SPACES DESIGNED FOR PERSONS WITH DISABILITIES AND ACCESSIBLE PASSENGER LOADING ZONES THAT SERVE A PARTICULAR BUILDING, SHALL BE LOCATED ON THE SHORTEST POSSIBLE ACCESSIBLE CIRCULATION ROUTE TO AN ACCESSIBLE ENTRANCE OF THE BUILDING.
6. IN SEPERATE PARKING STRUCTURES OR LOTS THAT DO NOT SERVE A PARTICULAR BUILDING, PARKING SPACES FOR PERSONS WITH DISABILITIES SHALL BE LOCATED ON THE SHORTEST POSSIBLE CIRCULATION ROUTE TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.

# OF ACCESSIBLE SPACES REQUIRED PER # OF OFF STREET PARKING	
TOTAL OFF STREET PARKING SPACES REQUIRED	REQUIRED MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2% OF TOTAL NUMBER
OVER 1000	20 PLUS 1 FOR EACH 100 OVER 1000

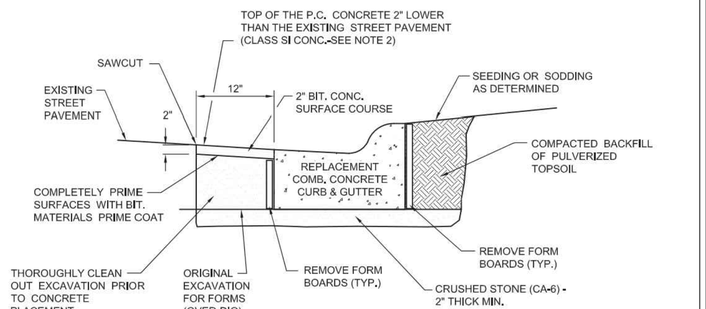
City of Naperville STANDARD DETAIL | ACCESSIBLE PARKING SPACE MARKINGS | REVISED: 01/01/2013 | SHEET 4 OF 4 | PAVEMENT 35 | 590.35



NOTE:

FOR MULTIPLE ACCESSIBLE PARKING SPACES IN A ROW, THE DESIGN ENGINEER HAS THE OPTION OF USING THE ABOVE SHOWN UNIT IN A COMBINATION OF LEFT-HANDED AND RIGHT-HANDED LAYOUTS IF IT PROVIDES FOR BETTER SITE DESIGN.

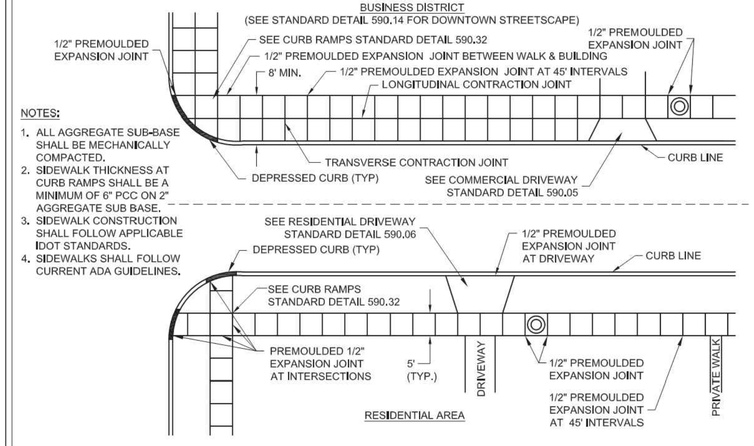
City of Naperville STANDARD DETAIL | ACCESSIBLE PARKING SPACE MARKINGS | REVISED: 01/01/2013 | SHEET 2 OF 4 | PAVEMENT 35 | 590.35



NOTES:

1. THE COMPLETE REPAIR OF PAVEMENTS ADJACENT TO THE REPLACEMENT CONCRETE CURB AND GUTTER IS INCLUDED IN THE COST OF THE NEW CURB AND GUTTER.
2. CLASS SI CONCRETE SHALL BE POURED SEPARATELY FROM THE CURB ONCE THE FORM BOARDS HAVE BEEN REMOVED.

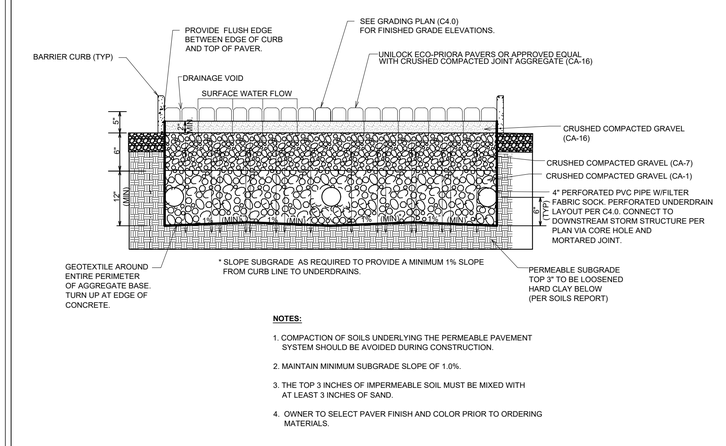
City of Naperville STANDARD DETAIL | CURB REPLACEMENT | REVISED: 01/01/2013 | SHEET 1 OF 1 | PAVEMENT 24 | 590.24



NOTES:

1. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
2. SIDEWALK THICKNESS AT CURB RAMPS SHALL BE A MINIMUM OF 6" PCC ON 2" AGGREGATE SUB BASE.
3. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
4. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

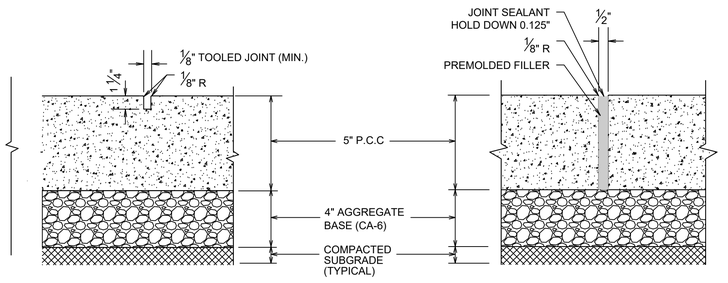
City of Naperville STANDARD DETAIL | SIDEWALK CONSTRUCTION | REVISED: 01/01/2013 | SHEET 1 OF 1 | PAVEMENT 31 | 590.31



NOTES:

1. COMPACTION OF SOILS UNDERLYING THE PERMEABLE PAVEMENT SYSTEM SHOULD BE AVOIDED DURING CONSTRUCTION.
2. MAINTAIN MINIMUM SUBGRADE SLOPE OF 1.0%.
3. THE TOP 3 INCHES OF IMPERMEABLE SOIL MUST BE MIXED WITH AT LEAST 3 INCHES OF SAND.
4. OWNER TO SELECT PAVER FINISH AND COLOR PRIOR TO ORDERING MATERIALS.

TYPICAL PERMEABLE PAVING DETAIL



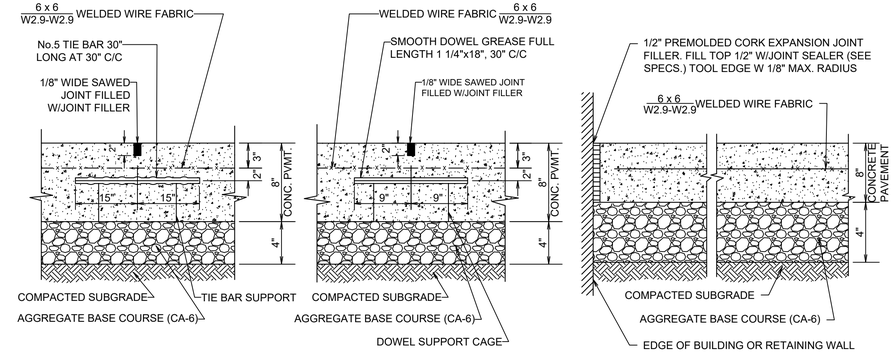
CONTRACTION JOINT DETAIL

EXPANSION JOINT DETAIL

NOTE:

UNLESS OTHERWISE NOTED ON PLANS, CONTRACTION JOINTS TO BE 5'-0" O.C. AND EXPANSION JOINTS TO BE 40' O.C. MAX., OR AT BACK OF CURB, CHANGE OF DIRECTION, OTHER WALK, UTILITY APPURTENANCE, OR FACE OF STRUCTURE.

CONCRETE SIDEWALK

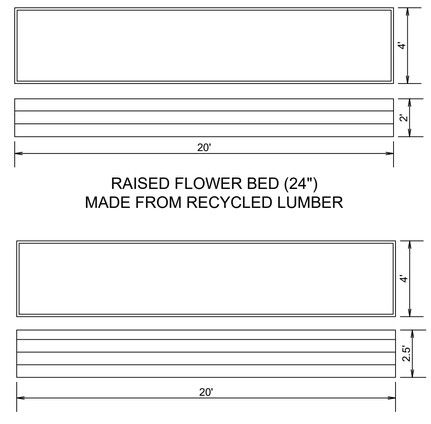


LONGITUDINAL CENTER JOINT

TRANSVERSE CONTRACTION JOINT

EXPANSION JOINT

CONCRETE PAVEMENT JOINTS



1. DETAIL SHOWN FOR REFERENCE ONLY

NO.	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 10-23-2023
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
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4	06-05-24	REVISED PER INTERNAL REVIEW

REVISIONS

PROJECT NO.: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

CONSTRUCTION DETAILS

RON ORY COMMUNITY GARDEN IMPROVEMENTS

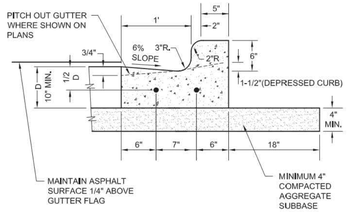
NAPERVILLE ILLINOIS

FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.

C6.0



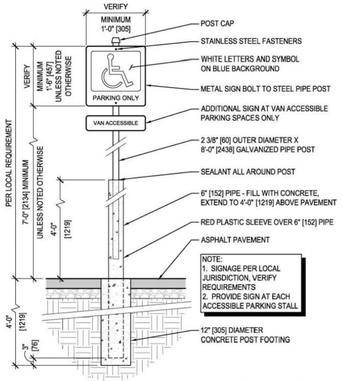
NOTES:

1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

City of Naperville STANDARD DETAIL	B6.12 BARRIER CURB & GUTTER	PAVEMENT 20
	REVISED: 01/01/2013 SHEET 1 OF 1	590.20

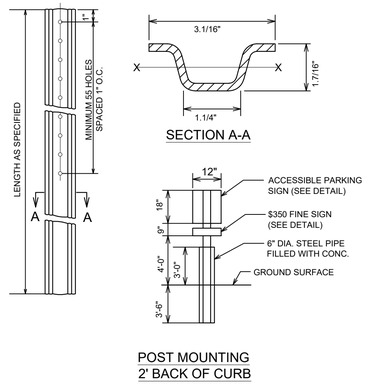
COSTCO WHOLESALE DEVELOPMENT REQUIREMENTS

SECTION 08 SITE LAYOUT



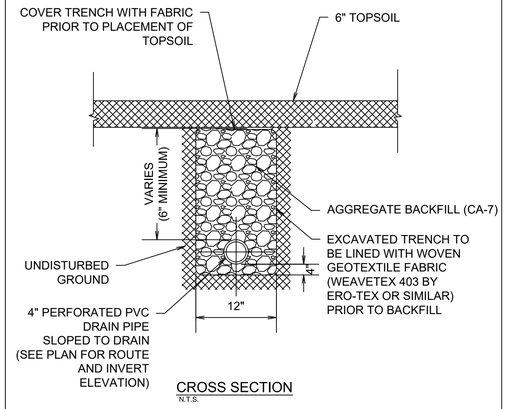
ADA ACCESSIBLE PARKING SIGN

DETAIL 08_08



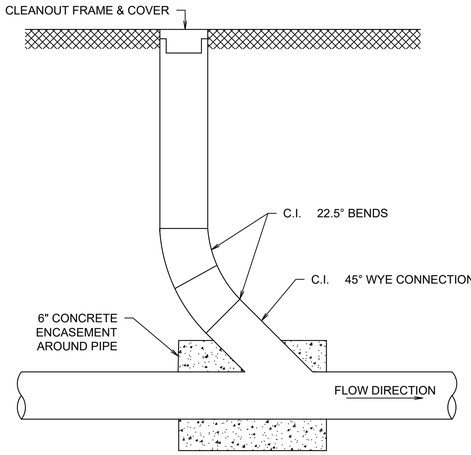
POST MOUNTING
2' BACK OF CURB

SIGN POST DETAIL



CROSS SECTION
N.T.S.

UNDERDRAIN



CLEANOUT

CUT A SECTION OF POLYETHYLENE TUBE APPROXIMATELY TWO FEET LONGER THAN THE PIPE SECTION. REMOVE ALL LUMPS OF CLAY, MUD, CINDERS, OR OTHER MATERIAL THAT MIGHT HAVE ACCUMULATED ON THE PIPE SURFACE DURING STORAGE. SLIP THE POLYETHYLENE TUBE AROUND THE PIPE, STARTING AT THE SPIGOT END. BUNCH THE TUBE ACCORDION-FASHION ON THE END OF THE PIPE. PULL BACK THE OVERHANGING END OF THE TUBE UNTIL IT CLEARS THE PIPE END.

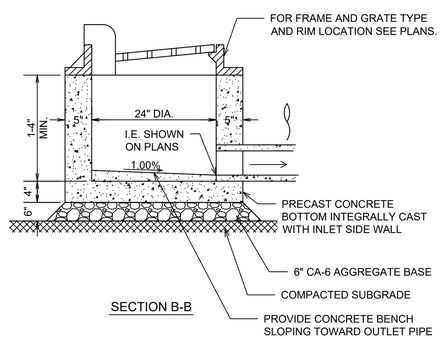
MAKE THE OVERLAP OF THE POLYETHYLENE TUBE BY PULLING BACK THE BUNCHED POLYETHYLENE FROM THE PRECEDING LENGTH OF PIPE AND SECURING IT IN PLACE. NOTE: THE POLYETHYLENE MAY BE SECURED IN PLACE BY USING TAPE, STRING, PLASTIC TIE STRAPS, OR ANY OTHER MATERIAL CAPABLE OF HOLDING THE POLYETHYLENE ENCASEMENT SNUGLY AGAINST THE PIPE.

TAKE UP SLACK IN THE TUBE ALONG THE BARREL OF THE PIPE TO MAKE A SNUG, BUT NOT TIGHT, FIT. FOLD EXCESS POLYETHYLENE BACK OVER THE TOP OF THE PIPE.

REPAIR ALL SMALL RIPS, TEARS OR OTHER TUBE DAMAGE WITH MANUFACTURER APPROVED ADHESIVE TAPE.

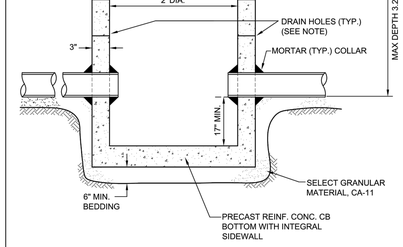
1. COVER BENDS, REDUCERS AND OTHER PIPE-SHAPED APPURTENANCES WITH POLYETHYLENE IN THE SAME MANNER AS THE PIPE.
2. WRAP VALVES, TEES AND OTHER ODD-SHAPED APPURTENANCES WITH A FLAT SHEET OR SPLIT LENGTH OF POLYETHYLENE TUBE BY PASSING THE SHEET UNDER THE APPURTENANCES AND BRINGING IT UP AROUND THE BODY. MAKE SEAMS BY BRINGING THE EDGES OF THE POLYETHYLENE SHEET TOGETHER, FOLDING OVER TWICE, AND TAPING DOWN.
3. POLYETHYLENE ENCASEMENT TO BE IN ACCORDANCE WITH A.W.W.A. C105-99OR LATEST VERSION.
4. COPPER SERVICE TAPS ARE TO BE WRAPPED WITH POLYETHELENE OR A SUITABLE DIELECTRIC APE FOR A MINIMUM CLEAR DISTANCE OF 3' AWAY FROM THE MAIN.

City of Naperville STANDARD DETAIL	POLYETHYLENE ENCASEMENT	WATER 15
	REVISED: 01/01/2013 SHEET 1 OF 1	490.15



SECTION B-B

2' DIAMETER INLET



NOTE:

A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1" BY 1" SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

City of Naperville STANDARD DETAIL	CATCH BASIN - TYPE C	STORM 4
	REVISED: 08/01/2018 SHEET 1 OF 1	290.04

REVISIONS

NO.	DATE	DESCRIPTION
		ORIGINAL ISSUE DATE: 10-23-2023
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

PROJECT NO.: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

CONSTRUCTION DETAILS

RON ORY COMMUNITY GARDEN IMPROVEMENTS
NAPERVILLE FINAL ENGINEERING ILLINOIS

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
C6.1

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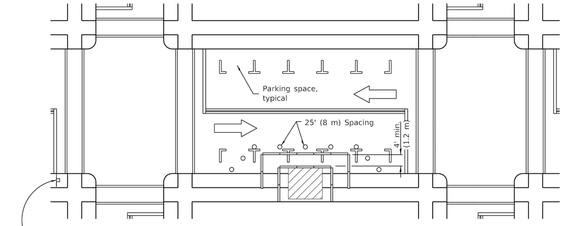
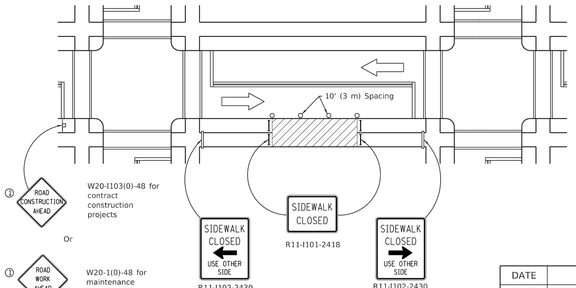


① ROAD CONSTRUCTION AHEAD — W20-I103(0)-48 for contract construction projects

Or

① ROAD WORK AHEAD — W20-1(0)-48 for maintenance and utility projects

SIDEWALK DIVERSION



① ROAD CONSTRUCTION AHEAD — W20-I103(0)-48 for contract construction projects

Or

① ROAD WORK AHEAD — W20-1(0)-48 for maintenance and utility projects

SIDEWALK CLOSURE

① Omit whenever duplicated by road work traffic control.

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade

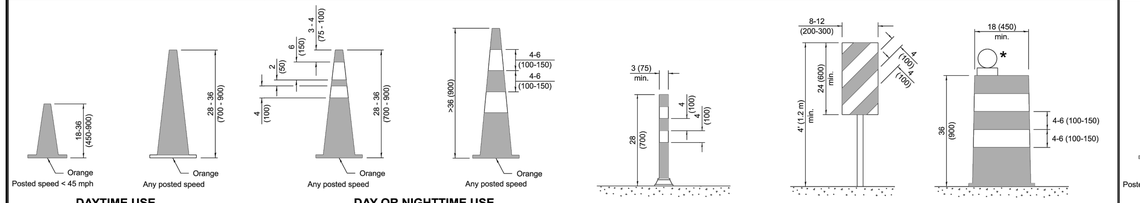
DATE	REVISIONS
4-1-16	Omitted orange safety fence
	from standard as this is
	covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of
	plan views. Renamed Std.

SIDEWALK, CORNER OR CROSSWALK CLOSURE

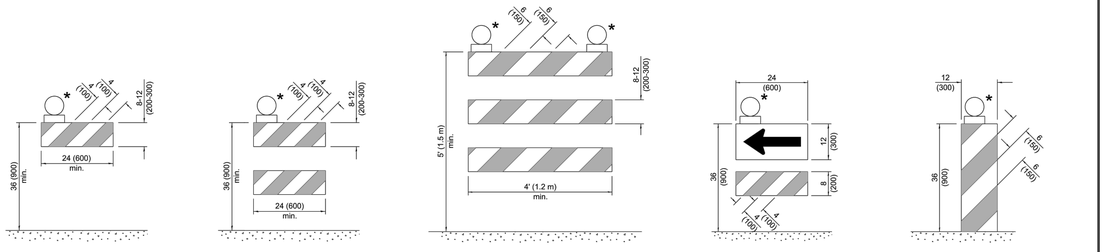
(Sheet 1 of 2)

STANDARD 701801-06

Illinois Department of Transportation
PASSED April 1, 2016 — ENGINEER OF SAFETY ENGINEERING
APPROVED April 1, 2016 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/ISTD 1-1-97



DAYTIME USE — CONES — DAY OR NIGHTTIME USE — TUBULAR MARKER — VERTICAL PANEL POST MOUNTED — DRUM



TYPE I BARRICADE — TYPE II BARRICADE — TYPE III BARRICADE — DIRECTION INDICATOR BARRICADE — VERTICAL BARRICADE

DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

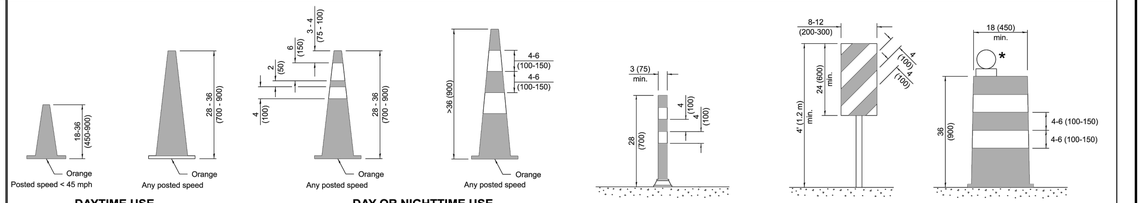
DATE	REVISIONS
1-1-24	Revised Type III Barricade notes
	(sht. 3) & moved warning light on
	post mounted signs to top center.
1-1-19	Revised cones usage and added
	cones > 36" (900mm) height

TRAFFIC CONTROL DEVICES

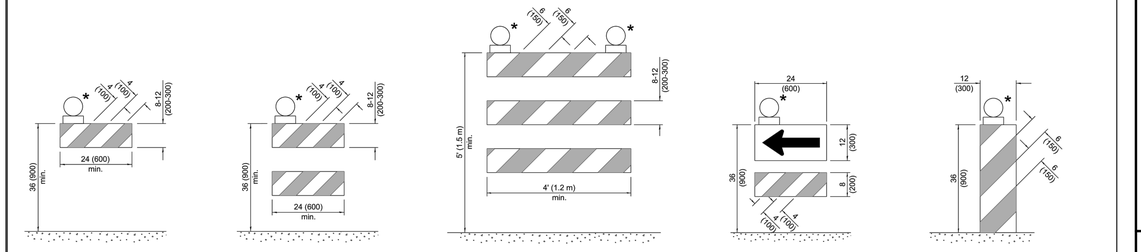
(Sheet 1 of 3)

STANDARD 701901-09

Illinois Department of Transportation
PASSED January 1, 2024 — ENGINEER OF SAFETY, PROGRAM AND ENGINEERING
APPROVED January 1, 2024 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/ISTD 1-1-13



DAYTIME USE — CONES — DAY OR NIGHTTIME USE — TUBULAR MARKER — VERTICAL PANEL POST MOUNTED — DRUM



TYPE I BARRICADE — TYPE II BARRICADE — TYPE III BARRICADE — DIRECTION INDICATOR BARRICADE — VERTICAL BARRICADE

DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

* Warning lights (if required)

GENERAL NOTES

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	(sht. 3) & moved warning light on
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TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

STANDARD 701901-09

ORIGINAL ISSUE DATE: 10-23-2023

REVISIONS

NO.	DATE	DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

PROJECT NO.: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JRL
DRAWN BY: RI

C6.2 CONSTRUCTION DETAILS

RON ORY COMMUNITY GARDEN IMPROVEMENTS — ILLINOIS
NAPERVILLE — FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
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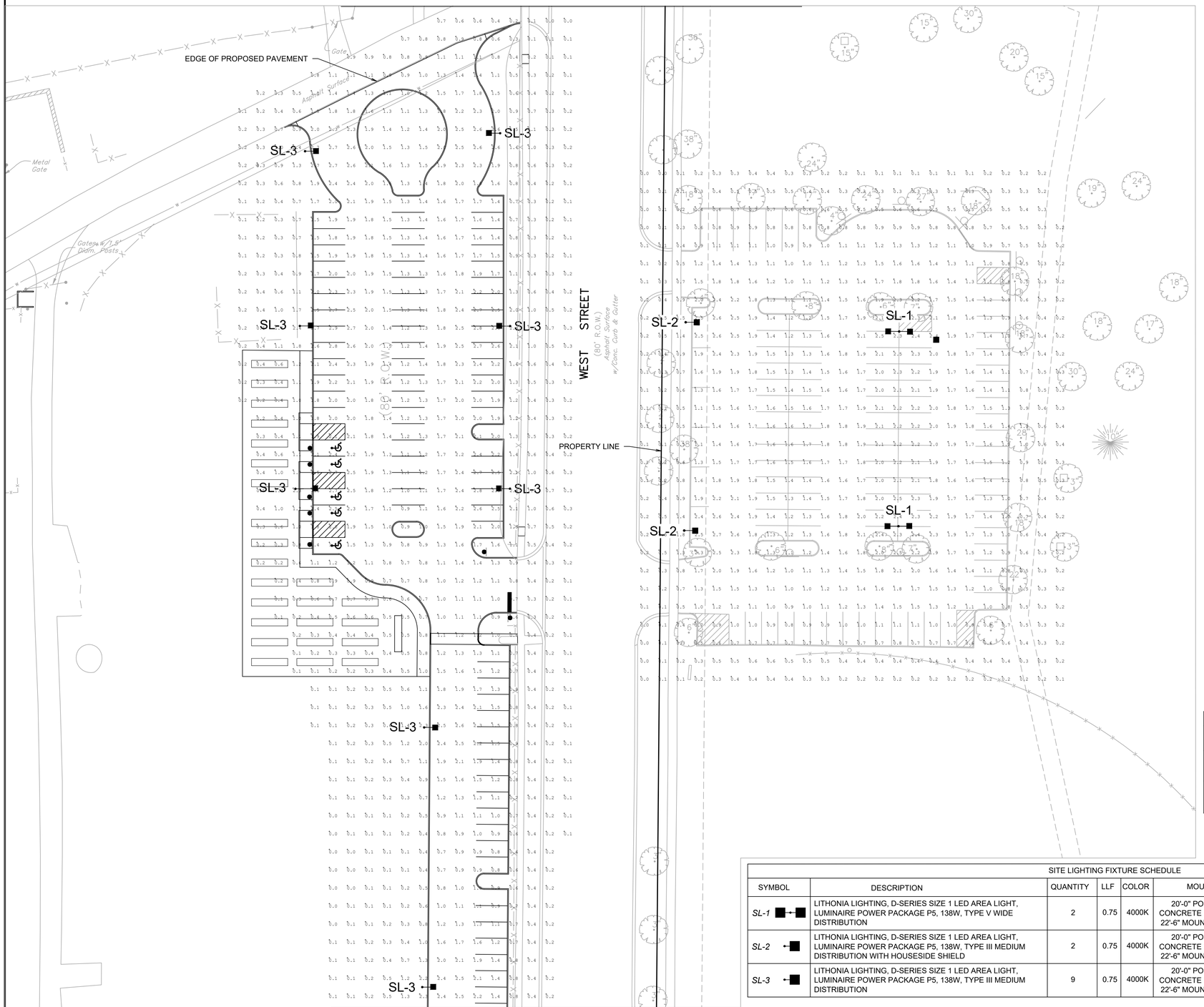
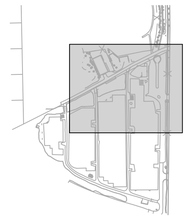


FOR CONTINUATION SEE SHEET P1.2



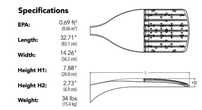
KEY PLAN

D-Series Size 1
LED Area Luminaire

d-series

Specifications

EPA:	0.69 ft² (0.06 m²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information **EXAMPLE:** DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature	Color Rendering Index	Distribution	Voltage	Mounting
DSX1 LED	**Forward optics** P1 P6 P2 P7 P3 P8 P4 P9 P5 **Rotated optics** P10¹ P12¹ P11¹ P13¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times may apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row TFTG Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare² T4M Type IV medium T4LG Type IV low glare² TFTM Forward throw medium T5M Type V medium T5LG Type V low glare² T5W Type V wide BLC3 Type III backlight control³ BLC4 Type IV backlight control³ LCCO Left corner cutoff³ RCCO Right corner cutoff³	MVOLT (120V-277V)⁴ HVOLT (347V-480V)⁴·⁵ XVOLT (277V - 480V)⁴·⁵ 120 4, 6 208 4, 6 240 4, 6 277 4, 6 347 4, 6 480 4, 6	**Shipped included** SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting (#5 drilling)⁷ RPA5 Round pole mounting (#5 drilling)⁷ SPARN Square narrow pole mounting (#8 drilling) WBA Wall bracket⁸ MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options		Other options	Finish (required)
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8–40' mounting height, ambient sensor enabled at 25 fc 9, 10, 11 PIR High/low, motion/ambient sensor, 8–40' mounting height, ambient sensor enabled at 25 fc 9, 10, 11 PER NEMA twist-lock receptacle only (controls ordered separate) 12 PERS Five-pin receptacle only (controls ordered separate) 12, 13	PE7D Seven-pin receptacle only (controls ordered separate) 12, 13 FAO Field adjustable output 14, 15 BL30 Bi-level switched dimming, 30% 16, 17 BL50 Bi-level switched dimming, 50% 16, 17 DMG 0–10v dimming wires pulled outside fixture (for use with an external control, ordered separately) 17 DS Dual switching 16, 18, 19	**Shipped installed** SPD20KV 20KV surge protection HS Houseside shield (black finish standard) 20 L90 Left rotated optics 21 R90 Right rotated optics 21 CCE Coastal Construction 22 HA 50°C ambient operation 23 BAA Buy American Act Compliant SF Single fuse (120, 277, 347V) 24 DF Double fuse (208, 240, 480V) 24 **Shipped separately** BSSX External Glare Shield (reversible, field install required, matches housing finish) BSOS Bird Spikes (field install required)	**Shipped installed** DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

LITHONIA LIGHTING. COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

DSX1-LED
Rev. 09/05/23
Page 1 of 10

NOTES:

1. THE LIGHT POLE LOCATIONS ON THIS PLAN SHOW THE RECOMMENDED PLACEMENT. ADJUSTMENTS TO THESE LOCATIONS MAY BE REQUIRED TO ACCOMMODATE SITE CONDITIONS.
2. PAVEMENT CALCULATION AREAS ARE TAKEN WITHIN THE LIMITS OF PAVEMENT AREAS IDENTIFIED ON THIS PLAN.
3. THE PHOTOMETRIC PLAN WAS PREPARED CONSIDERING THE FIXTURES IN THE SCHEDULE ON THIS SHEET.

CALCULATED LIGHTING LEVELS (FOOT CANDLES)					
	AVERAGE	MAX	MIN	AVG/MIN	MAX/MIN
EAST PARKING LOT (EXISTING)	1.54	2.7	0.7	2.20	3.86
WEST PARKING LOT (SOUTH OF EX. ACCESS DRIVE)	1.57	2.9	0.6	2.62	4.83

SITE LIGHTING FIXTURE SCHEDULE							
SYMBOL	DESCRIPTION	QUANTITY	LLF	COLOR	MOUNTING	CONFIG.	CATALOG NO. & NOTES
SL-1	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LIGHT, LUMINAIRE POWER PACKAGE P5, 138W, TYPE V WIDE DISTRIBUTION	2	0.75	4000K	20'-0" POLE ON 2'-6" CONCRETE FOUNDATION, 22'-6" MOUNTING HEIGHT	2 FIXTURE @ 180 DEG.	DSX1-LED-P5-40K-70CRI-T5W-MVOLT
SL-2	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LIGHT, LUMINAIRE POWER PACKAGE P5, 138W, TYPE III MEDIUM DISTRIBUTION WITH HOUSESIDE SHIELD	2	0.75	4000K	20'-0" POLE ON 2'-6" CONCRETE FOUNDATION, 22'-6" MOUNTING HEIGHT	1 FIXTURE	DSX1-LED-P5-40K-70CRI-T3M-MVOLT-HS
SL-3	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LIGHT, LUMINAIRE POWER PACKAGE P5, 138W, TYPE III MEDIUM DISTRIBUTION	9	0.75	4000K	20'-0" POLE ON 2'-6" CONCRETE FOUNDATION, 22'-6" MOUNTING HEIGHT	1 FIXTURE	DSX1-LED-P5-40K-70CRI-T3M-MVOLT

GRAPHIC SCALE
30 15 0 30
1" = 30'

NO.	DATE	DESCRIPTION
		REVISIONS
		DESCRIPTION
1	01-17-24	REVISED PER OWNER COMMENTS
2	04-15-24	REVISED PER CITY COMMENTS
3	05-07-24	REVISED PER CITY COMMENTS
4	06-05-24	REVISED PER INTERNAL REVIEW

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JL
DRAWN BY: RI

PHOTOMETRIC PLAN - AREA 1

RON ORY COMMUNITY GARDEN IMPROVEMENTS
NAPERVILLE ILLINOIS
FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

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P1.1

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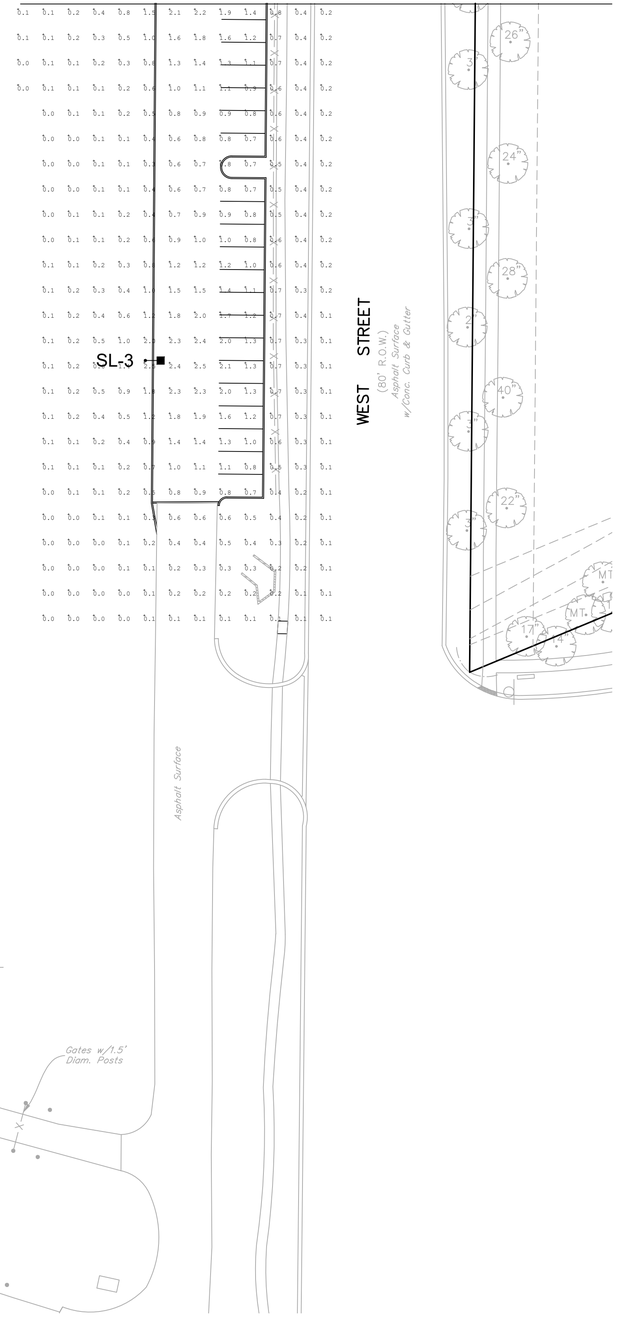
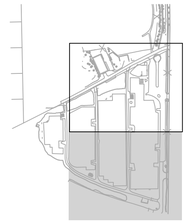
NOTES:

1. SEE SHEET P1.1 FOR LEGENDS AND NOTES.

FOR CONTINUATION SEE SHEET P1.1





KEY PLAN

GRAPHIC SCALE

30 15 0 30

1" = 30'

REVISIONS			
NO.	DATE	DESCRIPTION	
1	01-17-24	REVISED PER OWNER COMMENTS	
2	04-15-24	REVISED PER CITY COMMENTS	
3	05-07-24	REVISED PER CITY COMMENTS	
4	06-05-24	REVISED PER INTERNAL REVIEW	

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: JL
DRAWN BY: RI

PHOTOMETRIC PLAN - AREA 2

RON ORY COMMUNITY GARDEN IMPROVEMENTS

NAPERVILLE ILLINOIS

FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
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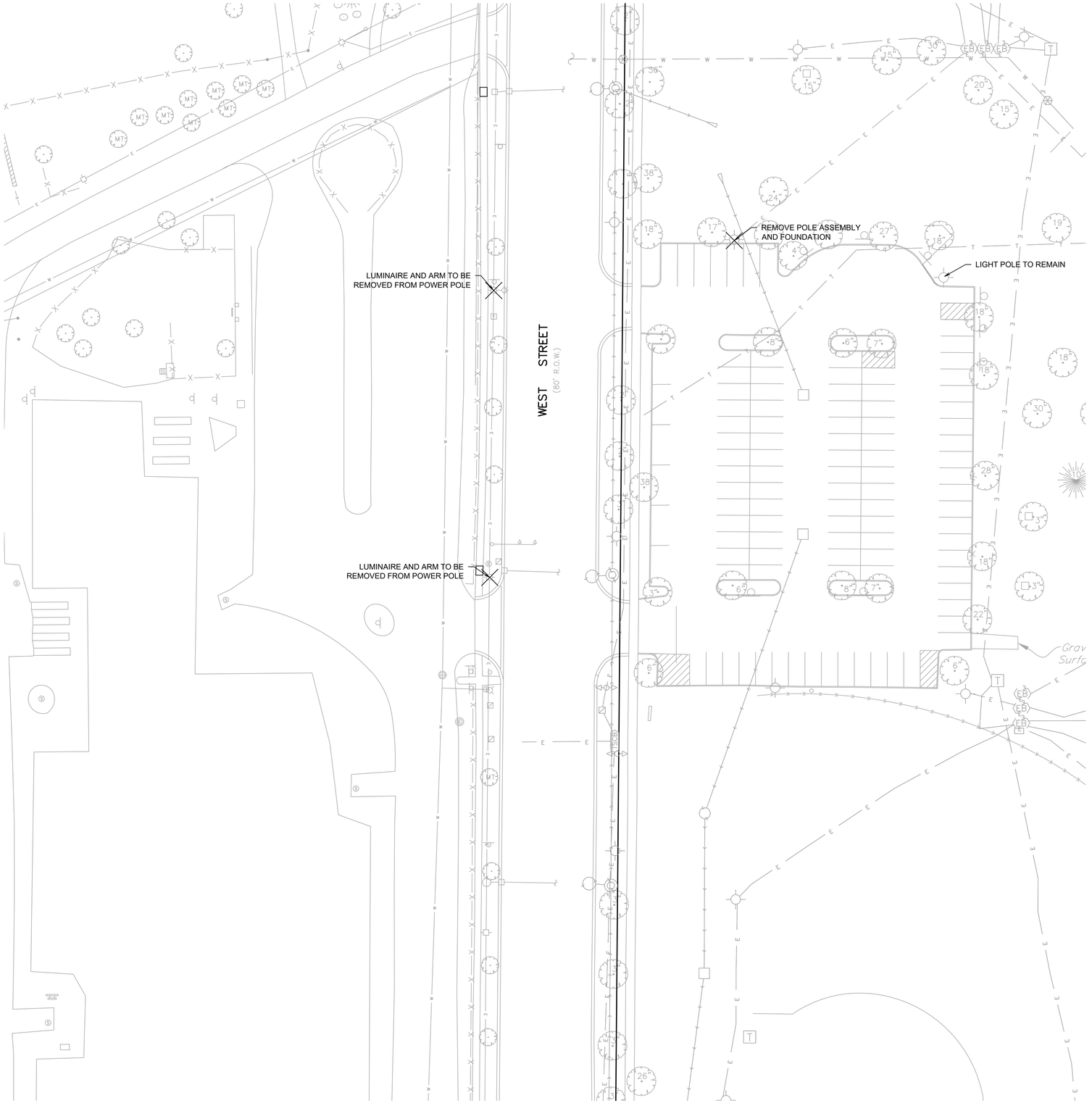
DRAWING NO.

P1.2



REMOVAL LEGEND

X	EXISTING LIGHT TO BE REMOVED

GRAPHIC SCALE
30 15 0 30
1" = 30'

REVISIONS

NO.	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: AM
DRAWN BY: AM

REMOVAL PLAN

RON ORY COMMUNITY GARDEN IMPROVEMENTS
NAPERVILLE ILLINOIS
FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
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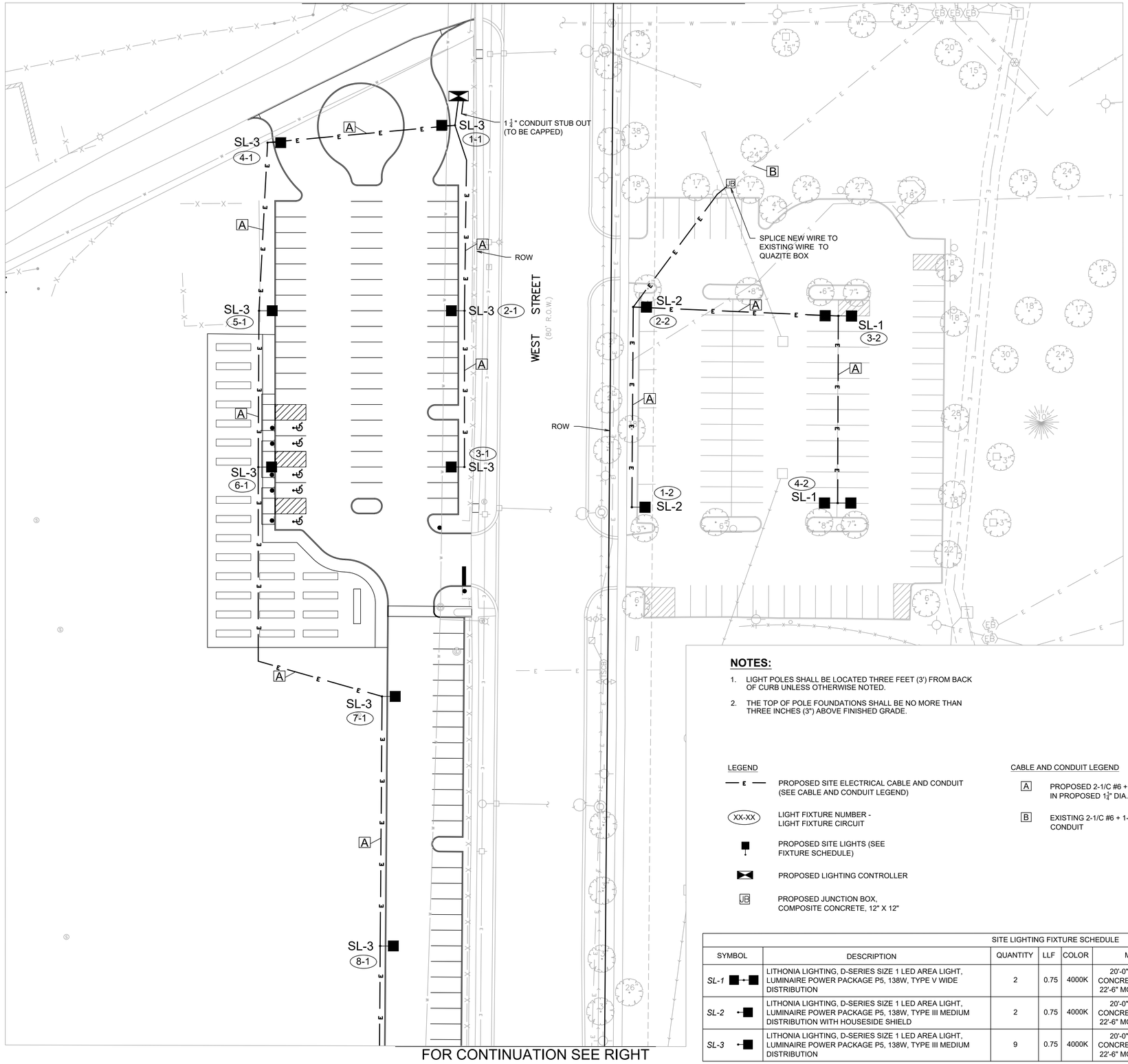

NOTES:

1. LIGHT POLES SHALL BE LOCATED THREE FEET (3') FROM BACK OF CURB UNLESS OTHERWISE NOTED.
2. THE TOP OF POLE FOUNDATIONS SHALL BE NO MORE THAN THREE INCHES (3") ABOVE FINISHED GRADE.

LEGEND

- PROPOSED SITE ELECTRICAL CABLE AND CONDUIT (SEE CABLE AND CONDUIT LEGEND)
- XX-XX — LIGHT FIXTURE NUMBER - LIGHT FIXTURE CIRCUIT
- PROPOSED SITE LIGHTS (SEE FIXTURE SCHEDULE)
- PROPOSED LIGHTING CONTROLLER
- UB — PROPOSED JUNCTION BOX, COMPOSITE CONCRETE, 12" X 12"

CABLE AND CONDUIT LEGEND

- A — PROPOSED 2-1/C #6 + 1-1/C #6 GROUND WIRE 600 VOLTS (XLP-TYPE USE) IN PROPOSED 1¼" DIA. POLYETHYLENE CONDUIT
- B — EXISTING 2-1/C #6 + 1-1/C #6 GROUND WIRE IN 1¼" DIA. POLYETHYLENE CONDUIT

SITE LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY	LLF	COLOR	MOUNTING	CONFIG.	CATALOG NO. & NOTES
SL-1	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LIGHT, LUMINAIRE POWER PACKAGE P5, 138W, TYPE V WIDE DISTRIBUTION	2	0.75	4000K	20'-0" POLE ON 2'-6" CONCRETE FOUNDATION, 22'-6" MOUNTING HEIGHT	2 FIXTURE @ 180 DEG.	DSX1-LED-P5-40K-70CRI-T5W-MVOLT SSS-25-4G-DM19AS-DBLXD
SL-2	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LIGHT, LUMINAIRE POWER PACKAGE P5, 138W, TYPE III MEDIUM DISTRIBUTION WITH HOUSESIDE SHIELD	2	0.75	4000K	20'-0" POLE ON 2'-6" CONCRETE FOUNDATION, 22'-6" MOUNTING HEIGHT	1 FIXTURE	DSX1-LED-P5-40K-70CRI-T3M-MVOLT-HS SSS-25-4G-DM19AS-DBLXD
SL-3	LITHONIA LIGHTING, D-SERIES SIZE 1 LED AREA LIGHT, LUMINAIRE POWER PACKAGE P5, 138W, TYPE III MEDIUM DISTRIBUTION	9	0.75	4000K	20'-0" POLE ON 2'-6" CONCRETE FOUNDATION, 22'-6" MOUNTING HEIGHT	1 FIXTURE	DSX1-LED-P5-40K-70CRI-T3M-MVOLT SSS-25-4G-DM19AS-DBLXD

GRAPHIC SCALE
30 15 0 30
1" = 30'

REVISIONS

NO.	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11-03-2023

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: AM
DRAWN BY: AM

ELECTRICAL PLAN

RON ORY COMMUNITY GARDEN IMPROVEMENTS
NAPERVILLE ILLINOIS
FINAL ENGINEERING

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
E2.1

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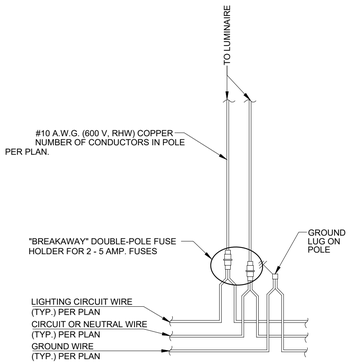
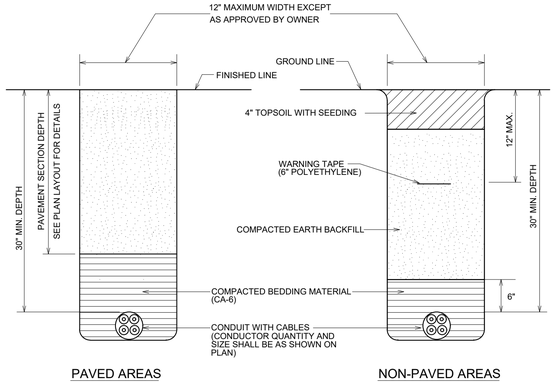
1. THE LIGHT POLE LOCATIONS ON THIS PLAN SHOW THE RECOMMENDED PLACEMENT. ADJUSTMENTS TO THESE LOCATION MAY BE REQUIRED TO ACCOMMODATE SITE CONDITIONS AND SHALL BE APPROVED BY THE OWNER AND ENGINEER.
2. LOCATION OF LIGHTING CABLE SHOWN ON THE PLAN IS DIAGRAMMATIC ONLY.
3. SITE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY MATERIALS AND MAKING ALL FINAL CONNECTIONS OF THE LIGHTING SYSTEM FOR A COMPLETE INSTALLATION TO THE PROPOSED JUNCTION BOX.
4. ALL LIGHTING WORK SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARDS AND SPECIFICATIONS, THE LATEST EDITION OF IDOT STANDARD SPECIFICATIONS BOOK, AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
5. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT EQUIPMENT SPECIFICATIONS, CATALOG CUT SHEETS, AND DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT TO THE ENGINEER AND OWNER FOR REVIEW & APPROVAL.
6. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND ANY APPLICABLE LOCAL CODES.
7. ALL EXCESS DIRT AND DEBRIS EXCAVATED FOR POLE FOUNDATIONS SHALL BE REMOVED BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING STREETS, DRIVEWAYS, SIDEWALKS, AND PARKING LOTS AT ALL TIMES TO THE EXTENT POSSIBLE DURING THE CONSTRUCTION OPERATION.
9. THE COST OF THE CABLE SHALL INCLUDE ELBOWS, SWEEPS, CONNECTING HARDWARE, MOUNTING HARDWARE, TRENCHING AND BACKFILL AS INDICATED IN THE PLANS. THE COST OF THE CONDUIT SHALL ALSO INCLUDE THE COST OF RESTORING CUT PAVEMENT, SIDEWALKS, SOD, ETC., TO ITS ORIGINAL CONDITION. SOD SHALL BE REPLACED IN LIKE KIND OF THE ADJACENT SURROUNDINGS.
10. THE CONDUCTOR SIZES SHOWN ON THE PLANS ARE BASED ON A 120/240 VOLT SINGLE-PHASE SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SERVICE WITH THE CONSTRUCTION MANAGER. IF SERVICE IS DIFFERENT, THE CONTRACTOR SHALL PROVIDE ADEQUATE NUMBER AND SIZE CONDUCTORS AND CONDUITS.
11. THE CONTRACTOR SHALL PUSH OR DIRECTIONALLY BORE ALL CONDUIT UNDER EXISTING PAVEMENT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE.
13. THE LIGHTING SYSTEM WILL BE MAINTAINED BY OWNER UPON FINAL ACCEPTANCE.
14. OWNER TO COORDINATE POWER CONNECTION WITH NAPERVILLE ELECTRIC

LOAD TABLE						
ELECTRICAL CONTROLLER						
240/480V, 1 PH, 3 WIRE						
CIRCUIT	DESCRIPTION	VOLTAGE	NO. OF POLES	LOAD (W)	WIRE SIZE	BREAKER
1	Parking Lot Lighting	240V	9	1242	#6	1-POLE, 20A
TOTAL				1242	WATTS	

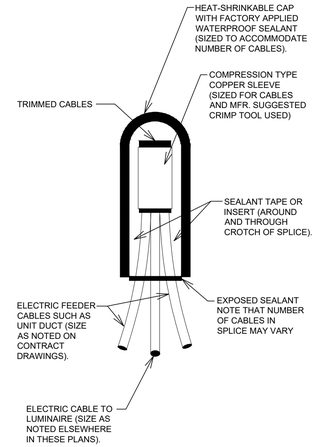
SITE LIGHTING GENERAL NOTES AND LOAD TABLE



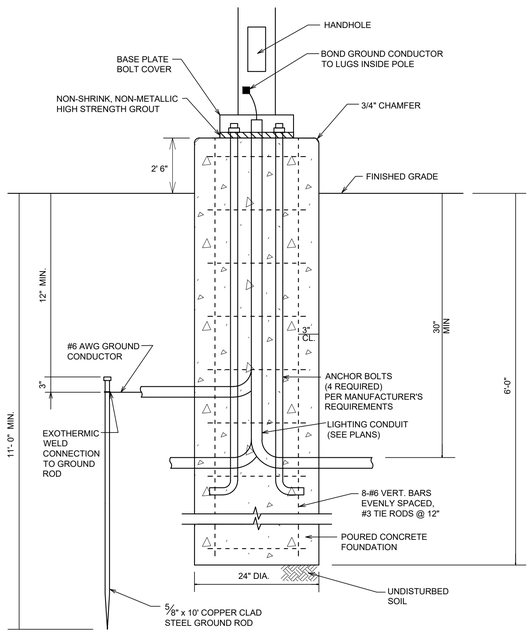
LIGHT POLE WIRING DETAIL



PARKING LOT LIGHTING CONDUIT TRENCH BACKFILL DETAIL



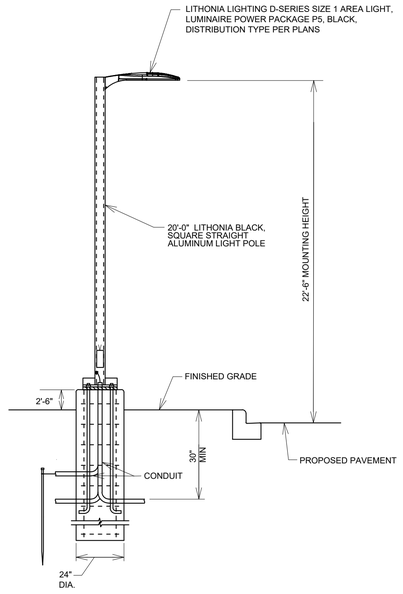
ELECTRICAL CABLES SPLICE DETAIL



LIGHT POLE FOUNDATION DETAIL

PARKING LOT LIGHT POLE FOUNDATION NOTES

1. CONTRACTOR TO VERIFY ALL ELEVATIONS, DIMENSIONS, LOCATIONS AND PRODUCTS PRIOR TO STARTING CONSTRUCTION AND/OR ORDERING MATERIALS.
2. CONCRETE TO BE CLASS A, MIN. STRENGTH TO BE f'c=3500 PSI, WITH AIR CONTENT 6.5% +/-1.5% BY VOLUME.
3. ALL REINFORCEMENT STEEL TO BE ASTM A615, GR-60.
4. ALL FOOTINGS MUST BE POURED ON UNDISTURBED SOIL WITH A MINIMUM SAFE BEARING CAPACITY OF 2000 P.S.F. WITH NO ORGANICS. THE FOUNDATION SHALL NOT BE POURED ON FROZEN GROUND.
5. FOUNDATION DETAIL IS BASED ON MEDIUM CLAY (Qu=1.0 TON/SQ FT.) SOIL CONDITIONS.
6. THE CONTRACTOR SHALL HAVE THE EXISTING SOIL CONDITIONS FIELD VERIFIED BY A QUALIFIED TESTING AGENCY AND SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS IF EXISTING SOIL CONDITIONS ARE OUTSIDE THE PARAMETERS ASSUMED FOR THE TYPICAL FOUNDATION DESIGN.
7. ANCHOR BOLT SIZE, TYPE, AND LOCATION FOR PROPOSED FIXTURES AND POLES SHALL BE TO MANUFACTURER'S SPECIFICATIONS TO ENSURE EASY MOUNTING OF LIGHT POLE.



SL-1, SL-2, SL-3 LITHONIA LIGHT POLE AND FIXTURE DETAIL

REVISIONS

NO.	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 2024-01-11

NO.	DATE	DESCRIPTION

PROJECT NO.: 230505
PROJECT MANAGER: DEF
DESIGNED BY: AM
DRAWN BY: AM

ELECTRICAL DETAILS

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DRAWING NO.
E2.2

SSS Square Straight Steel Poles

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** SSS 20 5C DM19 DDBXD

SSS					
Series	**Nominal fixture mounting height**	**Nominal shaft base size/wall thickness[1]**	**Mounting[2]**	**Options**	**Finish**
SSS	10'-39' (for 1/2 ft increments, add -6 to the pole height. **Ex:** 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	4C 4" 11g (0.120") 4G 4" 7g (0.179") 5C 5" 11g (0.120") 5G 5" 7g (0.179") 6G 6" 7g (0.179") (See technical information table for complete ordering information.)	Tenon mounting PT Open top (includes top cap) T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) KAC/KAD/KSE/KSF/KVR/KVF Drill mounting[3] DM19 1 at 90° DM28 2 at 180° DM28 PL 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° CSX/DSX/RSX/AERIS™/OMERO™/ KAX Drill mounting[3] DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90° RAD drill mounting[3] DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM39RAD 3 at 90° DM49RAD 4 at 90° ESX Drill mounting[3] DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90°	Shipped installed VD Vibration damper[4] HAxy Horizontal arm bracket (1 fixture)[5,6] FDLxy Festoon outlet less electrical[5,7] CPL12/xy 1/2" coupling[5] CPL34/xy 3/4" coupling[5] CPL1/xy 1" coupling[5] NPL12/xy 1/2" threaded nipple[5] NPL34/xy 3/4" threaded nipple[5] NPL1/xy 1" threaded nipple[5] EHHoy Extra handhole[5,8] STLHHC Steel handhole cover (standard is plastic, finish is smooth)[9] FBCSTL2PC 2 Piece steel base cover (standard is plastic)[9] IC Interior coating[10] L/AB Less anchor bolts (Include when anchor bolts are not needed) TP Tamper resistant handhole cover fasteners NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) UL UL listed with label (Includes NEC compliant cover) BAA Buy America(n) Act Compliant[11] VM/original orderH Match pole to prior order or project[12]	Super durable paint colors DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DGCXD Charcoal gray DTGXD Tennis green DBRXD Bright red DSBXD Steel blue DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white Other finishes GALV Galvanized finish Architectural colors and special finishes[13] [PAINT]-GALV Paint over galvanizing VP30 3 year warranty extension VP53 5 year warranty extension RAL#### Use designated Lithonia Lighting nomenclature in brochure Custom color Nomenclature assigned through Customer Care "Custom Color Process"

NOTES:

1. Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-Gauge) in nomenclature. "C" - 0.120" | "G" - 0.179".
2. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, specify as drilling option/tenon option. The combination includes a required extra handhole. *Example: DM36/T20.*
3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
4. On 4" and 5" poles, VD cannot be installed if provisions (EHH, FDL, NPL, CPL) are located higher than 2/3 of the pole's total height. *Example: Pole height is 25ft, A provision cannot be placed above 16ft.*
5. Specify location and orientation when ordering option.
   For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-". *Example: 5ft = 5 and 20ft 3in = 20-3*
   For "y": Specify orientation from handhole (A, B, C, D). Refer to the Handhole Orientation diagram below. *Example: 12" coupling at 0° & 1", orientation C = CPL12/1-4C*
6. Horizontal arm is: 16" = 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 2-3/8" O.D. If ordering two horizontal arms at the same height, specify with HAxy. *Example: HA20B0.*
7. FDL does not come with GFCI outlet or handhole cover. These must be supplied by contractor or electrician.
8. Combination of tenon-top and drill mount includes extra handhole. EHH includes cover.
9. Plastic hand hole cover and base covers come standard with all poles. Items ship separately. Additional parts can be ordered as replacements.
10. Provides enhanced corrosion resistance. N/A with GALV.
11. Use when mill certifications are required.
12. Must add original order number. Not for replacement parts or post sales issues, contact tech support or post sales teams. VM is used to ensure poles match in appearance exactly from order to order, on a single project site. A common use case would be a multi-phase project with multiple orders. *Example: VM/0593-36784*
13. Must be quoted through ADS. Finishes do not require RFA. RAL colors available are shown in "Architectural Colors brochure". Lead times may be extended up to 2 weeks due to paint procurement.

Accessories: *Order as separate catalog number.*	
PL DT20	Plugs for ESX drillings
PL DT8	Plugs For DMxxAS drillings
FVD xxF1	Field installed vibration damper (snake style)

LITHONIA LIGHTING®

POLE-SSS

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) www.lithonia.com

 Rev. 09/18/23

D-Series Size 1
LED Area Luminaire

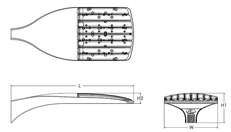
d^series

Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA: 0.69 ft² (0.06 m²)
Length: 32.71" (83.1 cm)
Width: 14.26" (36.2 cm)
Height H1: 7.88" (20.0 cm)
Height H2: 2.73" (6.9 cm)
Weight: 34 lbs (15.4 kg)



Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature[1]	Color Rendering Index[1]	Distribution	Voltage	Mounting
DSX1 LED	**Forward optics** P1 P6 P2 P7 P3 P8 P4 P9 P5 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[1] T4M Type IV medium T4LG Type IV low glare[1] TFTM Forward throw medium T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[1] BLC4 Type IV backlight control[1] LCCO Left corner cutoff[1] RCCO Right corner cutoff[1]	MVOLT (120V-277V)[2] HVOLT (347V-480V)[2,3] XVOLT (277V - 480V)[2,3] 120[4,5,6] 208[4,5,6] 240[4,5,6] 277[4,5,6] 347[4,5,6] 480[4,5,6]	**Shipped included** SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling[7] RPA5 Round pole mounting #5 drilling[7] SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket[8] MA Mast arm adapter (mounts on 2.375" OD horizontal tenon)

Control options		Other options	Finish (required)
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[9,10,20,21] PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[9,10,21] PER NEMA twist-lock receptacle only (controls ordered separate)[9] PERS Five-pin receptacle only (controls ordered separate)[9,21]	PER7 Seven-pin receptacle only (controls ordered separate)[9,21] FAO Field adjustable output[10,21] BL30 Bi-level switched dimming, 30%[9,21] BL50 Bi-level switched dimming, 50%[9,21] DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[9,21] DS Dual switching[10,11,21]	**Shipped installed** SPD20KV 20KV surge protection HS Houseside shield (black finish standard)[22] L90 Left rotated optics[1] R90 Right rotated optics[1] CCE Coastal Construction[23] HA 50°C ambient operation[24] BAA Buy America(n) Act Compliant SF Single fuse (120, 277, 347V)[24] DF Double fuse (208, 240, 480V)[24] **Shipped separately** EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

LITHONIA LIGHTING®
COMMERCIAL OUTDOOR

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DSX1-LED
Rev. 09/05/23
Page 1 of 10

LIGHTING SPECIFICATION SHEETS

PROPOSED LOAD SUMMARY		
CIRCUIT	LOAD (WATTS)	DESCRIPTION
1	1242	LIGHTING
TOTAL	**1242**	

PEDESTAL CONTROLLER DETAIL AND LOAD SUMMARY

NO.	DATE	REVISIONS DESCRIPTION

ORIGINAL ISSUE DATE: 2024-01-11

PROJECT NO: 230505
PROJECT MANAGER: DEF
DESIGNED BY: AM
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ELECTRICAL DETAILS

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DRAWING NO.
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N:\2023\230505\Drawings\ACAD\LD\S04\Sheet Drawings\E2.0 ElecDet230505.dwg 6/5/2024