SITE PLANS FOR

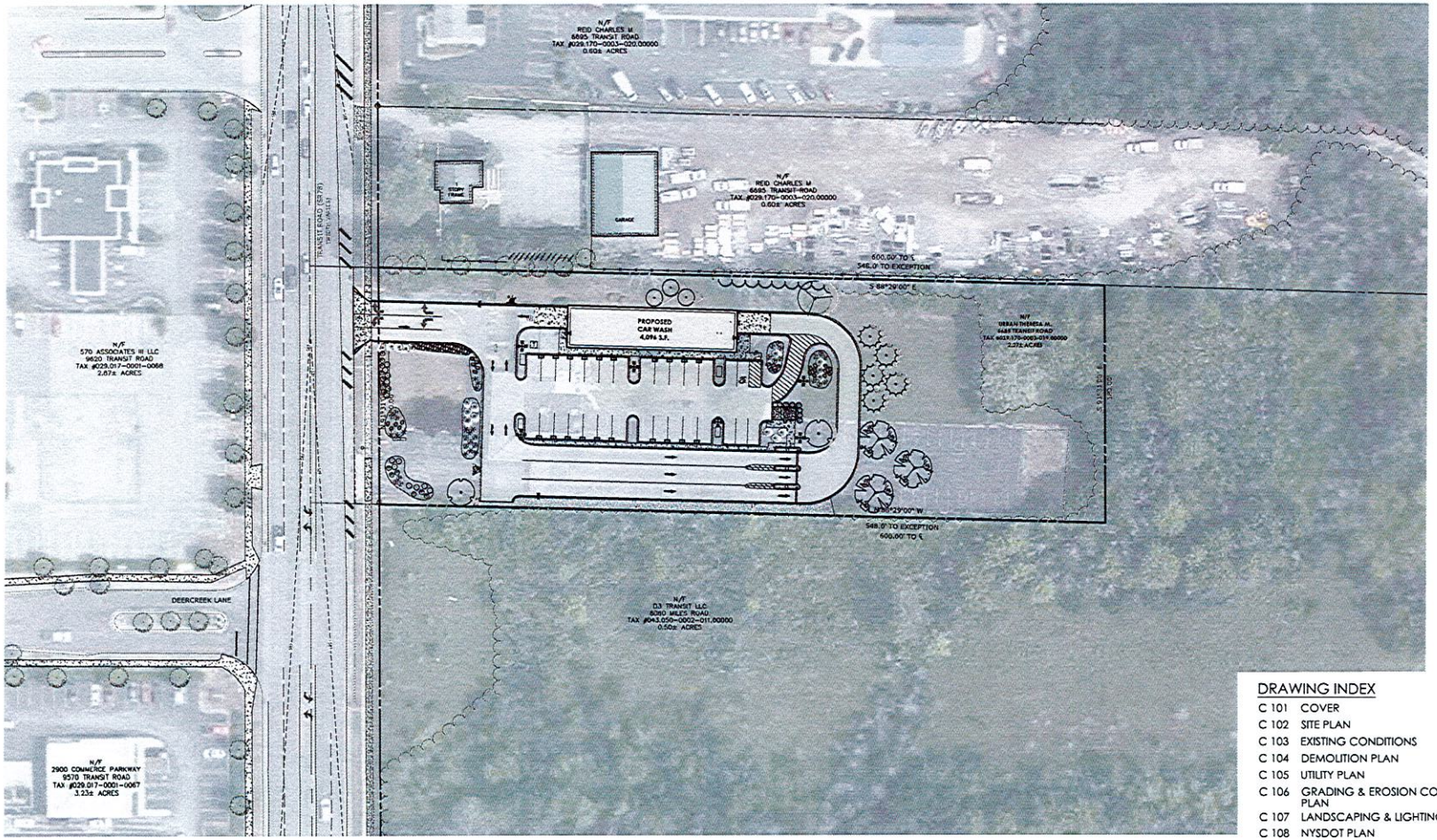
ROYAL WASH DEVELOPMENT - CLARENCE

6685 TRANSIT ROAD

TOWN OF CLARENCE, ERIE COUNTY, NEW YORK

P.N. 20213204.0001

HORIZONTAL SCALE
40 0 20 40 80
SCALE 1"=40'



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C 107 LANDSCAPING & LIGHTING PLAN
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PASSERO ASSOCIATES
engineering architecture

Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
242 West Main Street Suite 100
Rochester, New York 14614
(585) 325-1000
Fax: (585) 325-1691
Principal-in-Charge: Jess Sudol, PE
Project Manager: David Cox, PE
Designed By: James Ritzenthaler

Revisions

No.	Date	By	Description
10	03/30/22	ABG	PER TOWN ENGINEER COMMENTS
2	01/24/22	ABG	PER TOWN COMMENT
3	04/14/22	ABG	PER NYSDOT COMMENTS
4	10/21/22	ABG	FULL ACCESS OPINEMENT PER NYSDOT
5	12/05/22	ABG	PER TOWN ENGINEER COMMENTS
6	02/08/23	ABG	PER NYSDOT COMMENT
7	03/14/23	ABG	PER LA. COMMITEE APPROVAL
8	03/30/23	ABG	PER TOWN COMMENT
9	03/08/23	ABG	PER NYSDOT COMMENT

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COVER

RWD CLARENCE

Town/City: CLARENCE
County: ERIE
State: NEW YORK

Project No.
20213204.0001

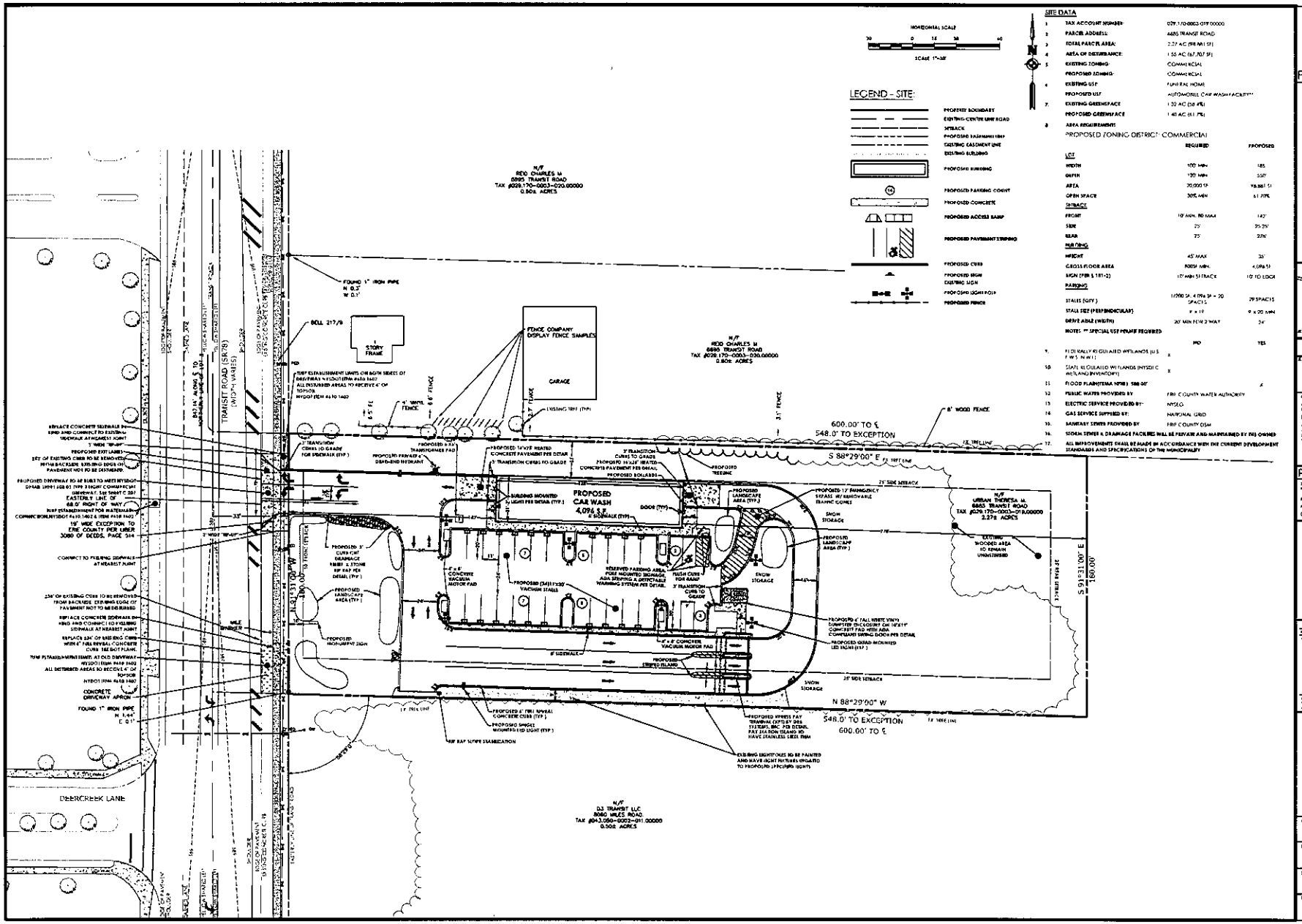
Drawing No.
C 101

Sheet No.
1

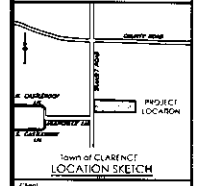
Scale
1" = 40'

Date
SEPTEMBER 2021

NOT FOR CONSTRUCTION



PASSERO ASSOCIATES
engineering architecture



Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
Principal-in-Charge: Jess Guidi, PE
Project Manager: David Cox, PE
Designed By: James Wilgenbacher

Revisions

No	Date	By	Description
10	10/05/21	MJH	PER Town Comments Comments
9	10/04/21	MJH	PER Town Comment
8	10/04/21	MJH	PER NYSDOT Comments
7	10/01/21	MJH	FULL ACCESS REQUIRED PER NYSDOT
6	10/08/21	MJH	PER Town Engineer Comments
5	10/08/21	MJH	PER NYSDOT Comment
4	10/14/21	MJH	PER Co. County Approval
3	10/20/21	MJH	PER Town Comment
2	10/26/21	MJH	PER NYSDOT Comment

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SITE PLAN

RWD CLARENCE

Town/City: CLARENCE
County: Erie State: New York

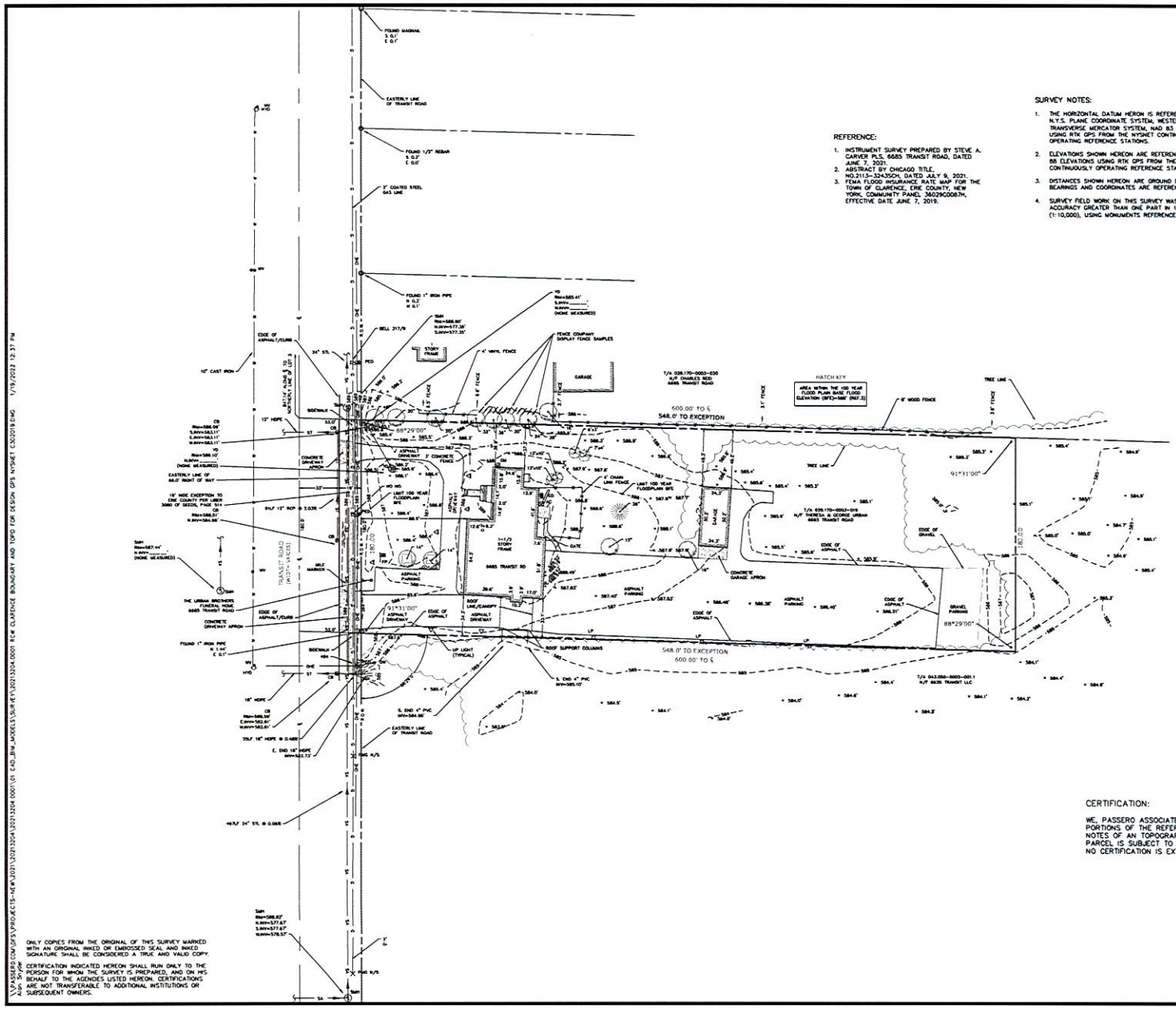
Project No: 20213204.0001

Drawing No: C 102 Sheet No: 2

Scale: 1" = 30'

Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION



REFERENCE:

1. INSTRUMENT SURVEY PREPARED BY STEVE A. CARVER PLS, 6685 TRANSIT ROAD, DATED JUNE 7, 2021.
2. ABSTRACT BY CHICAGO TITLE, NO.2113-324350H, DATED JULY 9, 2021.
3. FEMA FLOOD INSURANCE RATE MAP FOR THE TOWN OF CLARENCE, ERIE COUNTY, NEW YORK, COMMUNITY PANEL 360292C0087H, EFFECTIVE DATE JUNE 7, 2019.

SURVEY NOTES:

1. THE HORIZONTAL DATUM HEREON IS REFERENCED TO THE N.Y.S. PLANE COORDINATE SYSTEM, WESTERN ZONE, TRANSVERSE MERCATOR SYSTEM, NAD 83 (2011 ADJ.) USING RTK GPS FROM THE NYSNET CONTINUOUSLY OPERATING REFERENCE STATIONS.
2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD 88 ELEVATIONS USING RTK GPS FROM THE NYSNET CONTINUOUSLY OPERATING REFERENCE STATIONS.
3. DISTANCES SHOWN HEREON ARE GROUND DISTANCES. BEARINGS AND COORDINATES ARE REFERENCED TO GRID.
4. SURVEY FIELD WORK ON THIS SURVEY WAS DONE TO AN ACCURACY GREATER THAN ONE PART IN 10,000. (1:10,000), USING MONUMENTS REFERENCED HEREON.

NAD 83

GRAPHIC SCALE

40 0 20 40 80

1" = 40'

CERTIFICATION:

WE, PASSERO ASSOCIATES, CERTIFY THAT THIS MAP WAS PREPARED USING PORTIONS OF THE REFERENCE MATERIAL AS LISTED HEREON AND FROM NOTES OF AN TOPOGRAPHIC SURVEY COMPLETED JULY 26, 2021. THIS PARCEL IS SUBJECT TO ANY EASEMENTS OR ENCUMBRANCES OF RECORD. NO CERTIFICATION IS EXTENDED TO INFORMATION NOT REFERENCED.

STATE OF NEW YORK
ROBERT A. VENTO
LICENSED PROFESSIONAL SURVEYOR
049701

ROBERT A. VENTO N.Y.S.P.L.S. NO. 049701 DATE
bvento@passero.com

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL INKED OR EMBOSSED SEAL AND INKED SIGNATURE SHALL BE CONSIDERED A TRUE AND VALID COPY.

CERTIFICATION INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE AGENCIES LISTED HEREON. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

\\PASSERO.COM\DFS\PROJECTS-NEW\2021\20213204\20213204.0001\01 CAD_BIM_MODELS\SURVEY\20213204.0001 RCA CLARENCE BOUNDARY AND TOPO FOR DESIGN GPS NYSNET C3D2019.DWG 1/19/2022 12:37 PM
Alan Snyder

PA

Passero Associates
Rochester, NY • Fernandina Beach, FL
www.passero.com

ABBREVIATION TABLE	
A.G.	ABOVE GROUND
C.B.	CATCH BASIN
CONC.	CONCRETE
R.O.P.	ROOF OPEN PIPE
MEAS.	MEASURED
R.O.W.	RIGHT OF WAY
STP.	STANDPIPE
STL.	STEEL
TRANS.	TRANSFORMER
U.G.	UNDERGROUND

LEGEND	
CB	CATCHBASIN
CO	CLEANOUT (UNKNOWN TYPE)
CO	CLEANOUT DRAINAGE SEWER
CO	CLEANOUT SANITARY SEWER
	END SECTION DRAINAGE PIPE
GV	GAS VALVE
HYD	HYDRANT
LP	LIGHTPOLE
MH	MANHOLE (UNKNOWN TYPE)
MH	MANHOLE ELECTRIC
MH	MANHOLE DRAINAGE INLET
MH	MANHOLE DRAINAGE SEWER
MH	MANHOLE SANITARY SEWER
	SIGN POST (SINGLE)
SP	TRAFFIC LIGHT SPAN POLE
PP	UTILITY POLE
	UTILITY POLE ANCHOR WIRE
PL	UTILITY POLE WITH LIGHT
WS	WATER SERVICE
WV	WATER VALVE

Revisions

No.	Date	By	Description

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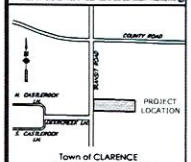


Town of CLARENCE
LOCATION SKETCH

Passero Associates
242 WEST MAIN STREET, SUITE 200 (585) 325-1000
ROCHESTER, NY 14614 Fax (585) 763-9860

Principal-in-Charge	David L. Cox, PE
Project Manager	Robert A. Vento, PLS
Drafted by	R.D.C.

Client:
THE DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY, 14618

TOPOGRAPHIC SURVEY OF LANDS NOW OR FORMERLY OWNED BY GEORGE & TERESA URBAN

6685 TRANSIT ROAD

TAX ACCT. NO. 029.170-0003-19

TOWN OF CLARENCE, ERIE COUNTY, NEW YORK STATE

Project No. 20213204.0001

Drawing No. C-103

Sheet No. 3

Scale: 1" = 40'

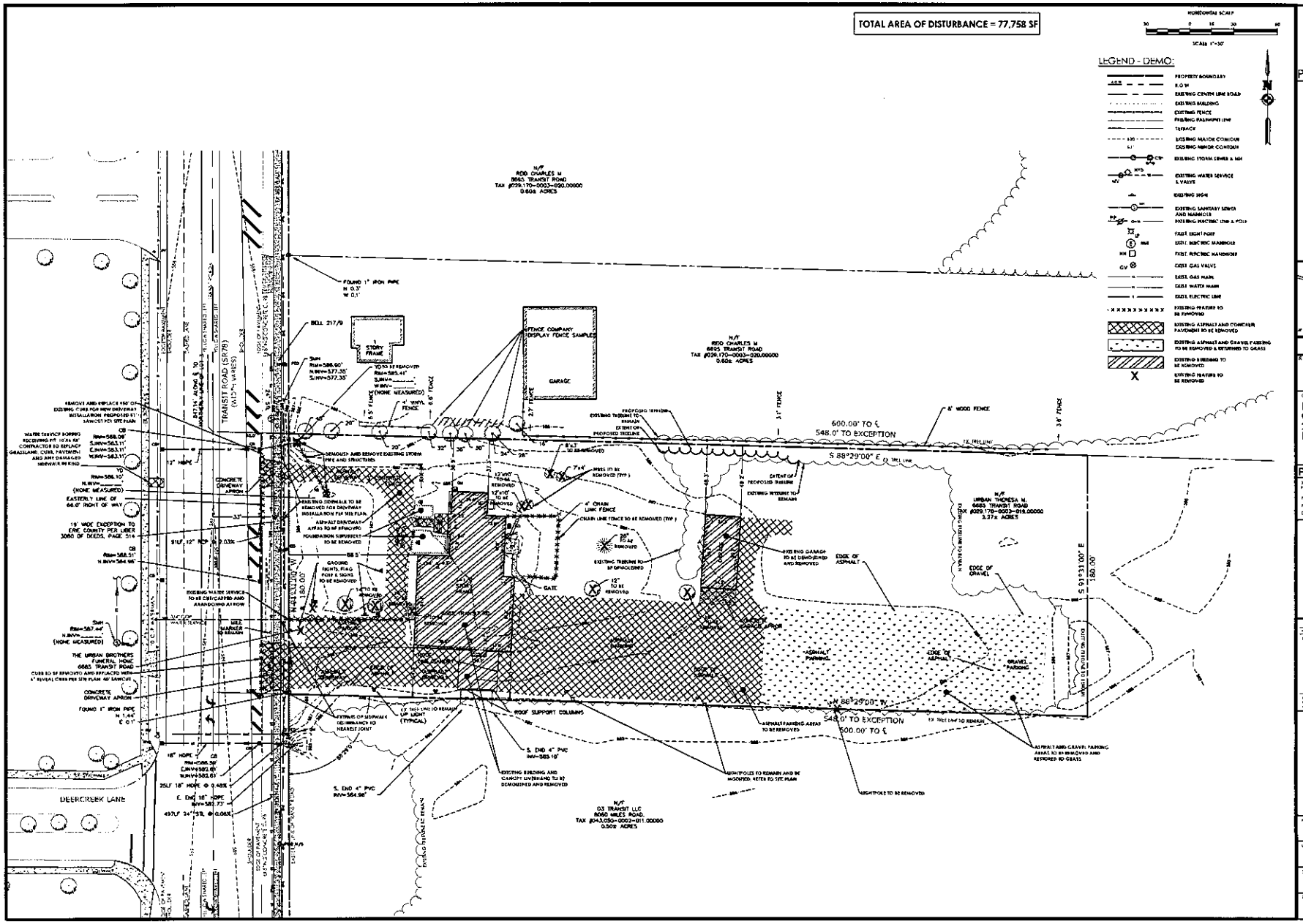
Date 01.19.2022

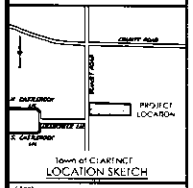
TOTAL AREA OF DISTURBANCE = 77,758 SF

HORIZONTAL SCALE

LEGEND - DEMO:

PASSERO ASSOCIATES
engineering architecture





Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES

Principal in Charge: Jesse Kuziel, PE
Project Manager: David Cox, PE
Designed By: James Fitzsimmons

Revisions

No.	Date	By	Description
10	03/08/22	ABR	PER RWB COMMENT COMMENTS
9	01/24/22	ABR	PER RWB COMMENT
8	01/24/22	ABR	PER NYSDOT COMMENTS
7	10/21/22	ABR	FULL ACCESS DRIVEWAY PER NYSDOT
6	12/05/22	ABR	PER RWB INITIAL COMMENTS
5	02/08/22	ABR	PER NYSDOT COMMENT
4	02/14/22	ABR	PER L.A. COUNTY APPROVAL
3	02/28/22	ABR	PER RWB COMMENT
2	03/08/22	ABR	PER NYSDOT COMMENT

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DEMOLITION PLAN
RWD CLARENCE

Town/City: CLARENCE
County: ERIE State: NEW YORK

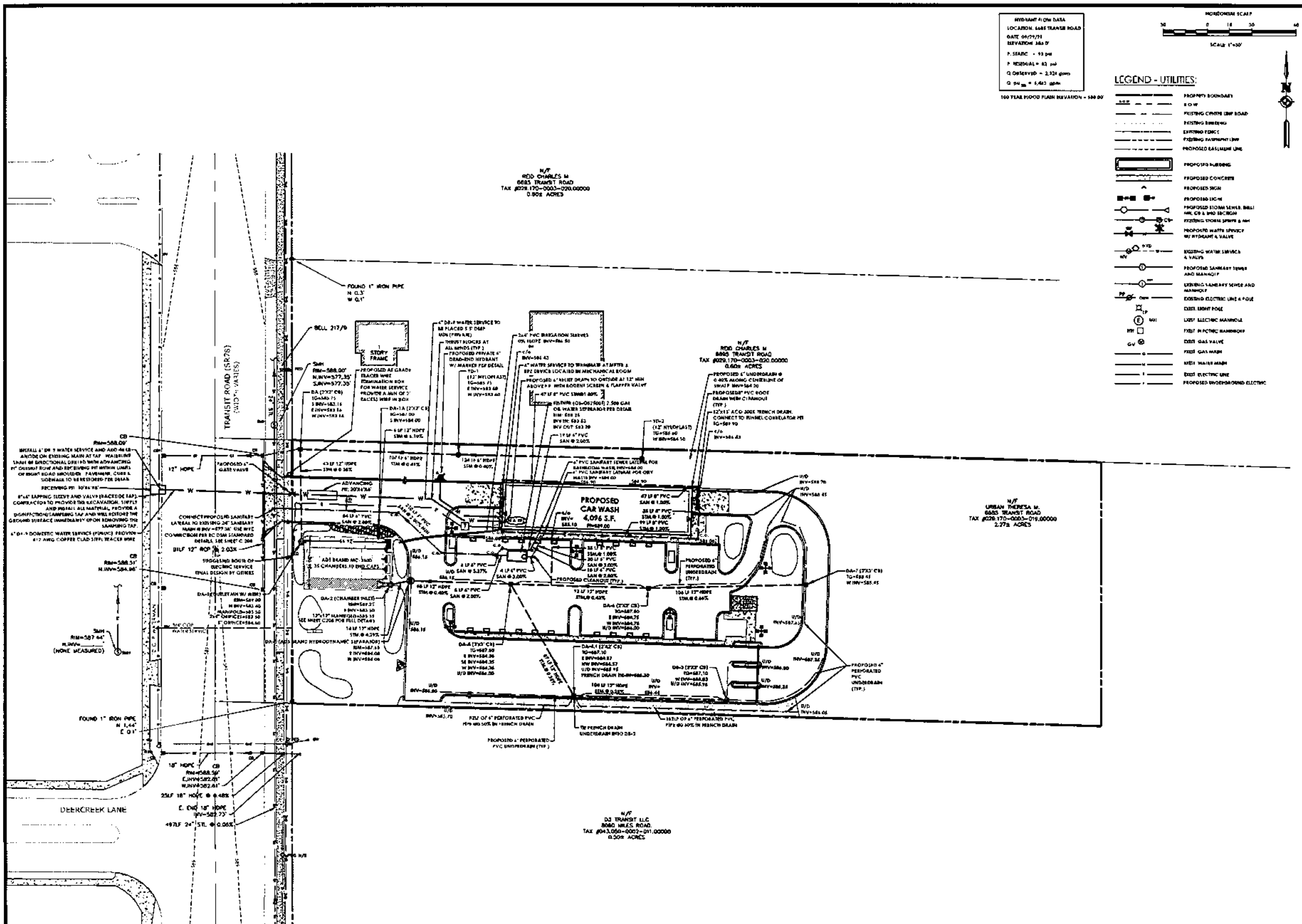
Project No: 20213204.0001

Drawing No: C 104
Sheet No: 4

Scale: 1" = 30'

Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION



PASSERO ASSOCIATES
engineering architecture

Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES

UTILITY PLAN

RWD CLARENCE

Project No
20213204.0001

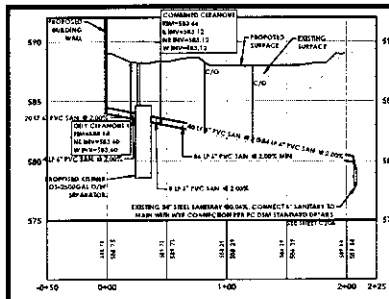
Drawing No
C 105

Sheet No
5

Scale
1" = 30'

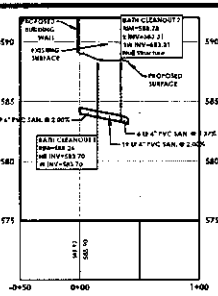
Date
SEPTEMBER 2021

NOT FOR CONSTRUCTION



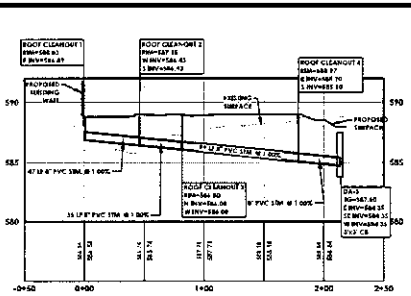
OILY & COMBINED SANITARY PROFILE

SCALE: HORIZONTAL - 1" = 50'
VERTICAL - 1: = 5'



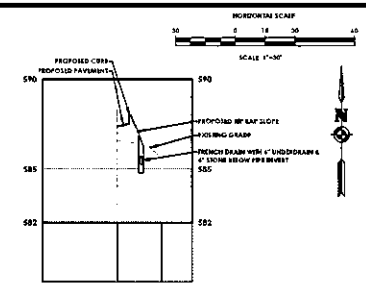
BATH SANITARY PROFILE

SCALE: HORIZONTAL - 1" = 50'
VERTICAL - 1: = 5'



ROOF DRAIN STORM LATERAL PROFILE

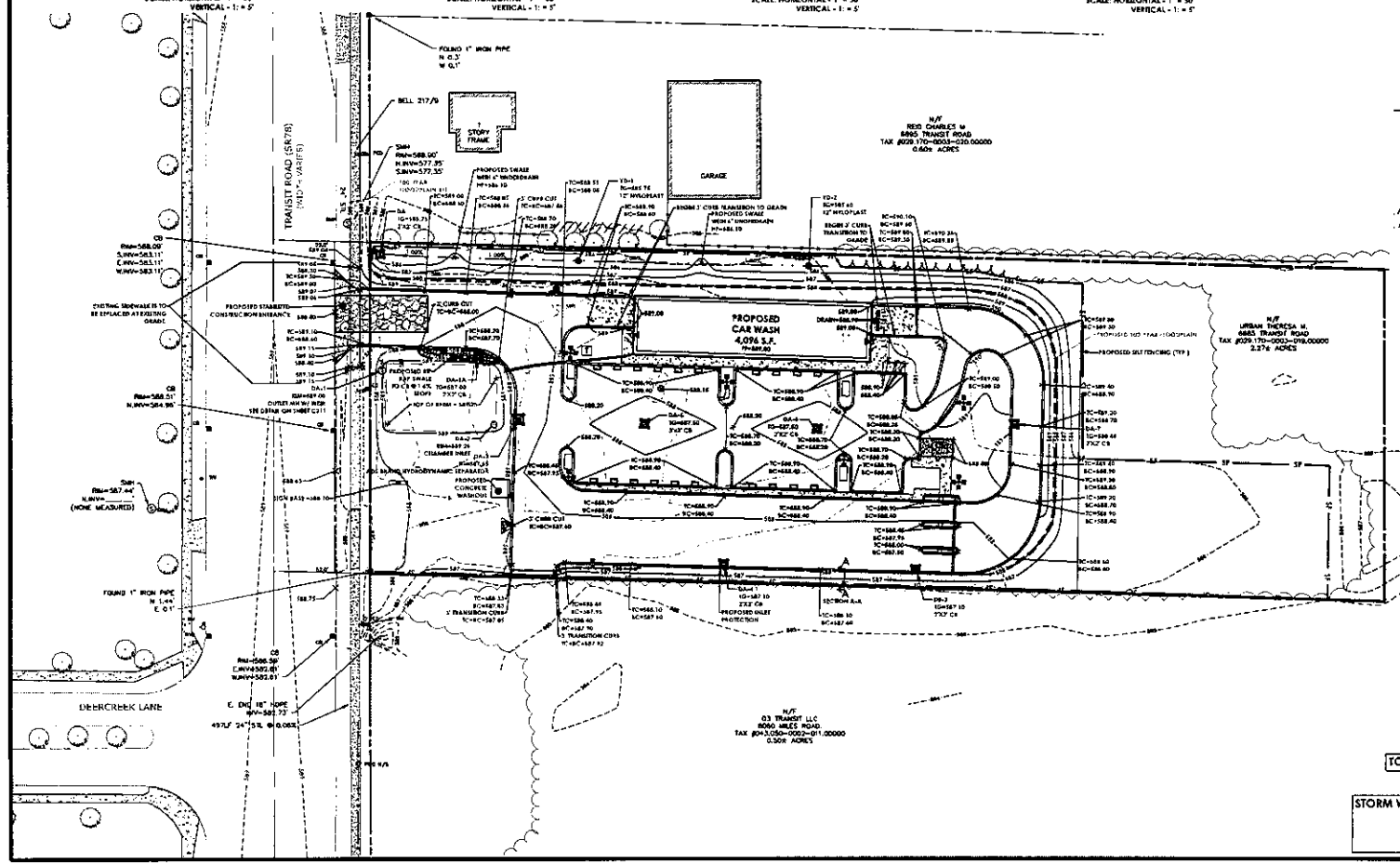
SCALE: HORIZONTAL - 1" = 50'
VERTICAL - 1: = 5'



SECTION A-A PROFILE

SCALE: HORIZONTAL - 1" = 50'
VERTICAL - 1: = 5'

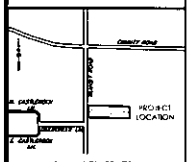
LEGEND - GRADING:



TOTAL AREA OF DISTURBANCE = 77,758 SF

STORM WATER ELEVATION IN CHAMBER SYSTEM:
1 YEAR= 584.36
10 YEAR=585.33
100 YEAR=587.53

PASSERO ASSOCIATES
engineering architecture



Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES

Principal in Charge: Jack Sudol, PE
Project Manager: David Cox, PE
Designed by: James Rizzarulular

Revisions

No.	Date	By	Description
10	10/26/21	ABR	PER TOWN Reviewer Comments
2	01/04/22	ABR	PER TOWN COMMENT
3	04/04/22	ABR	PER SEWER COMMENTS
4	10/17/22	ABR	FULL ACCESS DRIVEWAY PER WHSDOT
5	11/01/22	ABR	PER Town Reviewer Comments
6	02/08/23	ABR	PER WHSDOT COMMENT
7	03/14/23	ABR	PER L.A. COUNTY APPROVAL
8	03/28/23	ABR	PER TOWN COMMENT
9	06/06/23	ABR	PER WHSDOT COMMENT

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GRADING & EROSION CONTROL PLAN RWD CLARENCE

Town/City: CLARENCE
County: Erie State: NEW YORK

Project No: 20213204.0001

Drawing No: C 106
Sheet No: 6

Scale: 1" = 30'

Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION

*Send Mike Bonly when you have well-occasional wet so sinks

TOPSOIL AND SEEDING NOTES:

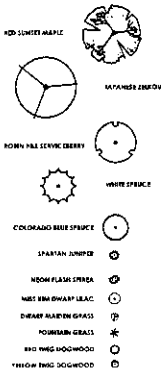
1. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR ROUGH GRADING AND RE-SPREADING TOPSOIL IN ALL TURF AND LANDSCAPE AREAS (BEDS AND ISLANDS).
2. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND PREPARATION OF ALL LAWN AND LANDSCAPE AREAS.
3. REMOVE ALL EXISTING VEGETATION DURING GRADING PROCESS.
4. APPLY MINIMUM OF SIX (6) INCHES OF CLEAN TOPSOIL(IMPORTED OR SCREEN ON -3/16) AND FINE GRADE, LEAVING TOPSOIL IN A LOOSE AND FRIABLE CONDITION FOR SEEDING.
5. USE SOIL OR AND OTHER ORGANIC AMENDMENTS AS NECESSARY TO ACHIEVE A SOIL pH BETWEEN 6.5 - 7.8.
6. LANDSCAPE CONTRACTOR SHALL WORK OVER LAWN AREAS THAT HAVE BECOME PARTIALLY DEFACT, TOP DRESSING WITH SOIL, SCARIFYING, AND SEEDING TO POINT A SMOOTH, FULL, EVEN LAWN, FREE OF BARE SPOTS, INDENTATIONS, AND WEEDS.
7. SEEDING SHOULD BEGIN IMMEDIATELY UPON COMPLETION OF FINE GRADING. SEED SHOULD BE PRESSED INTO THE SOIL TO ENSURE GOOD SEED-TO-SOIL CONTACT, NO DEEPER THAN THE THICKNESS OF THE LEAVES.
8. FERTILIZING, APPLY 10-0-10 FERTILIZER EVENLY AT THE RATE OF 30 POUNDS PER 1000 SQ FT. NO FERTILIZER CONTAINING PHOSPHORUS IS PERMITTED ON SITE.
9. SEED SHOULD BE APPLIED BEFORE BY HAND BROADCASTING OR HYDRO SEEDING. TWO PASSES SHALL BE MADE IN PERPENDICULAR DIRECTIONS TO ENSURE PROPER COVERAGE.
10. LAWN SEED MIX

MIX A: SEEDING RATE: 4 LBS./1,000 SQ.FT
LOW MAINTENANCE FESCUE LAWN
PERFORMER SEED : LOW MAINTENANCE GRASS SEED MIX OR APPROVED EQUAL
35% PERENNIAL RYE FESCUE
25% BIG NORTH GT HARDSHEEP
20% DURMOND CHEWINGS FESCUE
20% CHEWING SHEEP FESCUE
10% NORTOWN HARD FESCUE

MIX B: SEEDING RATE: 4LBS./1,000 SQ.FT
OCCASIONAL WET - WET LOCATIONS:
30% RED TOP — 30% VIRGINIA WILD RYEGRASS
30% ALSIKE CLOVER — 20% FOX SEDGE
10% AUTUMN BENTGRASS — 10% POWL BLUEGRASS

11. DRY APPLICATION MULCH
   A. STRAW MULCH SHOULD BE APPLIED TO NEWLY SEEDED AREAS WITHIN 12 HOURS IF HYDRO MULCH IS NOT UTILIZED.
   B. DRY APPLICATION, STRAW: STALKS OF OATS, WHEAT, RYE OR OTHER APPROVED CROPS WHICH ARE FREE OF NOXIOUS WEEDS. WEIGHT SHALL BE BASED ON A 15 PERCENT MOISTURE CONTENT.
   C. DRY APPLICATION: WITHIN ONE DAY AFTER SEEDING, COVER THE SEEDED AREAS WITH A UNIFORM BLANKET OF STRAW MULCH AT THE RATE OF 100 POUNDS PER 1000 SQ FT OF SEEDED AREA.
12. HYDRO APPLICATION: APPLY APPROVED MULCH IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDED RATES OF APPLICATION. APPLY SEEDING MATERIALS WITH AN APPROVED HYDRO SEEDER.

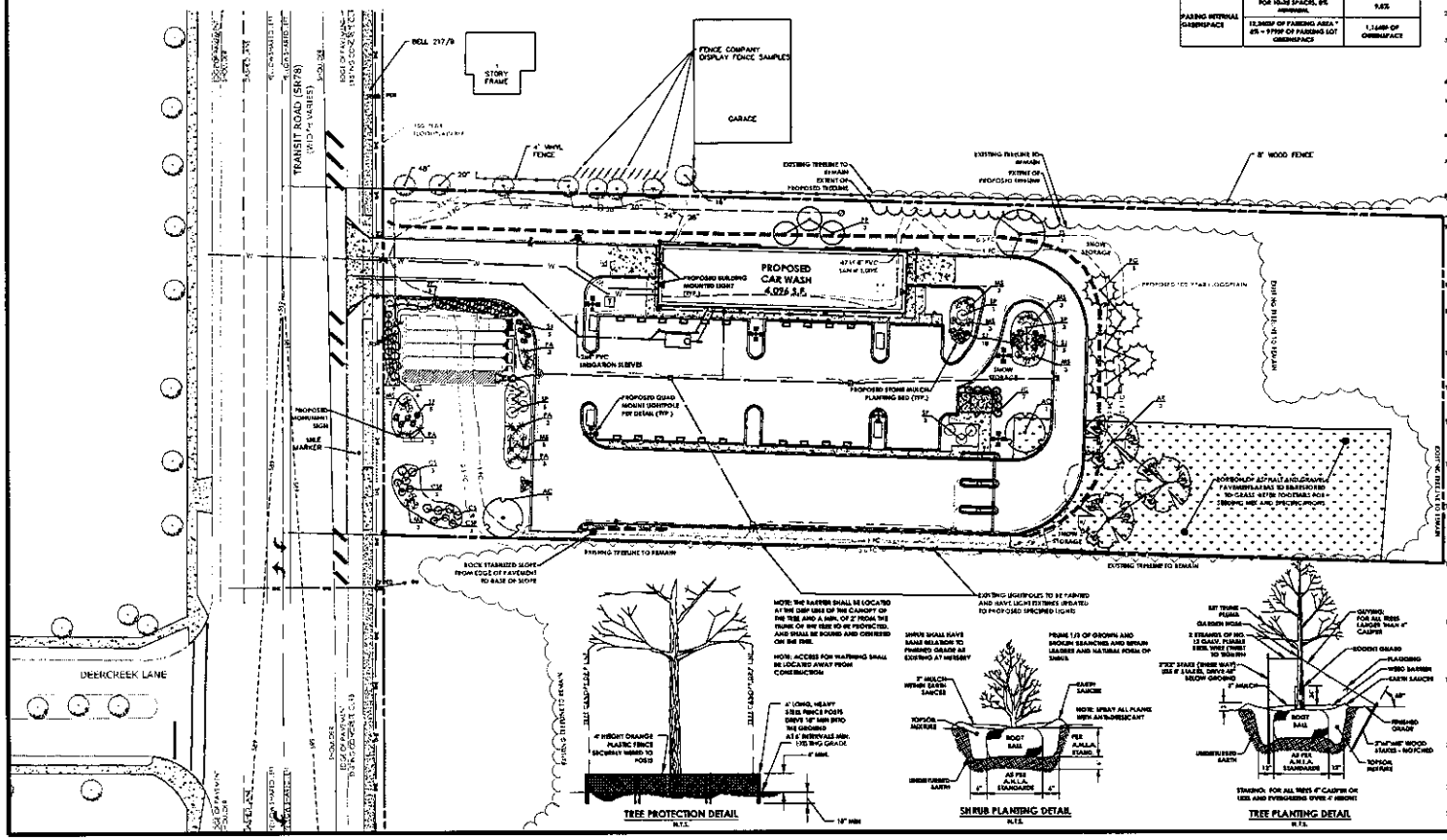
   A. COLORED WOOD CELLULOSE FIBER PRODUCT SPECIFICALLY DESIGNED FOR USE AS A HYDRO-MECHANICAL APPLIED MULCH. ACCEPTABLE PRODUCTS: CONWED HYDRO MULCH, CONWED FIBERS, 237 4TH STREET PH, HICKORY, NC
13. FILL TANK WITH WATER AND AGITATE WHILE ADDING SEEDING MATERIALS. USE SUFFICIENT FERTILIZER, MULCH, AND SEED TO OBTAIN THE SPECIFIED APPLICATION RATE. ADD SEED TO THE TANK AFTER THE FERTILIZER AND MULCH HAVE BEEN ADDED. MAINTAIN CONSTANT AGITATION TO KEEP CONTENTS IN HOMOGENEOUS SUSPENSION. PROCEEDING DELAYS IN APPLICATION OR AGITATION THAT MAY BE HAZARDOUS TO THE SEED WILL BE THE BASIS OF REJECTION OF MATERIAL REMAINING IN TANK.
14. DISTRIBUTE UNIFORMLY A SLURRY MIXTURE OF WATER, SEED, FERTILIZER, AND MULCH AT A MINIMUM RATE OF 37 GALLONS PER 1000 SQ FT (5000 GALLONS PER ACRE). THE OWNER AND PROJECT REPRESENTATIVE MAY ORDER THE AMOUNT OF WATER INCREASED OR DISTRIBUTION OF SEEDING MATERIALS IN NOT UNIFORM.



PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING/ SPREAD	REMARKS	MATURE HEIGHT	NATIVE	SALT TOLERANCE
DECIDUOUS TREES										
AR	3	ACER RUBRUM "RED SUNSET"	RED SUNSET MAPLE	2.5"-3"	B&B	AS SHOWN	FALL HAZARD	40-45'	YES	YES
ZS	3	ZELKOVA SERRATA "VILLAGE GREEN"	VILLAGE GREEN JAPANESE ZELKOVA	2.5"-3"	B&B	AS SHOWN	FALL HAZARD	50-65'		MODERATE
EVERGREEN TREES										
PG	8	PICEA GLAUCA	WHITE SPRUCE	6-8'	B&B	10-20	30' O.C. BWPPR TRFF	40-60	YES	YES
PP	3	PICEA PUNGENS	COLORADO BLUE SPRUCE	6-8'	B&B	10-20	30' O.C. BWPPR TRFF	30-60'	YES	YES
JC	7	JUNIPERUS CHINENSIS "SPARTAN"	SPARTAN JUNIPER	6-7'	B&B	5' O.C.	DUMPSTER SCREEN	15'	NO	YES
FLOWERING ORNAMENTAL TREES										
AC	2	AMELANCHIER CANADENSIS "ROBIN HILL PINK"	ROBIN HILL SERVICEBERRY	2-2.5"	B&B	26'	TREE FORM	20'	YES	YES
DECIDUOUS SHRUBS										
SJ	36	SPIRAEA JAPONICA "NEON FLASH"	NEON FLASH SPIREA	24" H	B&B	5' O.C.		2		
SP	12	SYRINGA PATULA "MISS KIM"	MISS KIM DWARF LILAC	30-36" H	#5 CONT	4' O.C.		5-6'		
GRASSES AND PERENNIALS										
MS	23	MISCANTHUS SINENSIS "ADAGIO"	DWARF MARBLE GRASS	36" H	#3 CONT.	4' O.C.		3-4'		
PA	12	PENNISETUM ALOPECUROIDES "HAMELN"	FOUNTAIN GRASS	36" H	#2 CONT	3' O.C.		1.5-2.5'		
SHRUBS										
CS	13	CORNUS SERICEA	RED TWIG DOGWOOD	36" H	#3 CONT.	5' O.C.	STORM BASIN PLANTING	5-6'	YES	MODERATE
CSY	13	CORNUS SERICEA "HAVERMANN"	YELLOW TWIG DOGWOOD	36" H	#3 CONT.	5' O.C.	STORM BASIN PLANTING	5-6'	YES	MODERATE
NOTE:										
ROCK MULCH SHALL BE 1-3" WASHED RIVER ROCK, UNIFORM IN SIZE AND DEPOSIT OF ALL FINES										
MATERIAL SHALL BE FREE OF ORGANIC AND INORGANIC DEBRIS OR TRASH										

LANDSCAPING REQUIREMENTS		
	REQUIRED	PROPOSED
PARKING INTERNAL GREENSPACE	FOR 10,000 SF SPACES, 5% MINIMUM.	9.6%
	15,360SF OF PARKING AREA * 5% = 9,799SF OF PARKING LOT GREENSPACE	1,164SF OF GREENSPACE



HORIZONTAL SCALE
30 0 15 30 60
SCALE: 1"=30'

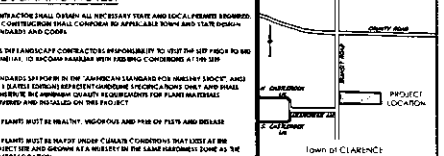
LEGEND - LANDSCAPING:

- EXISTING FENCE
- PROPOSED BUILDING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED ACCESS RAMP
- PROPOSED CURB
- PROPOSED SIGN
- EXISTING LIGHTS POLE
- PROPOSED LIGHT POLE
- PROPOSED BUILDING MOUNTED LIGHT
- PROPOSED TREES

LANDSCAPING NOTES:

1. CONTRACTOR SHALL OBTAIN ALL NECESSARY STATE AND LOCAL PERMITS REQUIRED. ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE TOWN AND STATE DESIGN STANDARDS AND CODES.
2. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID SUBMITTAL TO FAMILIARIZE WITH EXISTING CONDITIONS AT THE SITE.
3. STANDARDS SPECIFIED IN THE "AMERICAN STANDARD FOR NURSERY STOCK", ANSI Z60.1 (LATEST EDITION) REPRESENT MINIMUM SPECIFICATIONS ONLY AND SHALL CONSTITUTE THE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS DELIVERED AND INSTALLED ON THIS PROJECT.
4. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
5. ALL PLANTS MUST BE HARDY UNDER CLIMATE CONDITIONS THAT EXIST AT THE PROJECT SITE AND GROWN AT A NURSERY IN THE SAME HARDINESS ZONE AS THE PROJECT LOCATION.
6. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS NOTED SITE REQUIREMENTS AS INDICATED ON THE PLANT LIST.
7. ALL TREES MUST BE STRAIGHT-TRUNKED, HEALTHY AND HAVE A FULL STANDARD CROWN (HEAD) AND MEET ALL REQUIREMENTS SPECIFIED (E.G., SINGLE STEM, MULTI-STEM, HEAVY BRANCHING, ETC.).
8. ANY PROPOSED DEVIATION TO THE LANDSCAPE PLAN MUST BE SUBMITTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF THE PROPOSED LANDSCAPING CHANGE.
9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THE PLANS. THE BID PRICE SUBMITTED WILL ASSUME THAT ALL PLANT MATERIALS DESCRIBED WILL BE SUPPLIED AND INSTALLED. ANY DISCREPANCIES IN THE QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR DESIGN LANDSCAPE ARCHITECT (OWNER'S REPRESENTATIVE) PRIOR TO COMPLETING A BID PRICE.
10. ALL GRADING AND EARTH WORK SHALL BE COMPLETED PRIOR TO INSTALLATION OF PLANT MATERIAL AND LANDSCAPE MULCH.
11. THE FINAL LOCATION OF TREES AND OTHER LANDSCAPING SHALL BE DETERMINED IN THE FIELD BASED ON UTILITY STAKEOUT AND SHALL NOT CONFLICT WITH TRAFFIC SIGNS AND/OR UTILITIES. STAKE OUT SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
12. ANY CONCERNS RELATED TO SITE CONDITIONS AND/OR PLANT LOCATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
13. PLANTING BACKFILL MIXTURE: 4 PARTS TOPSOIL (ON-SITE OR IMPORTED), 1 PART PEAT MOSS, 1/2 PART WELL ROTTED MANURE AND 10 LBS. A-B-C PLANTING FERTILIZER, NEEDS INCORPORATE PER CUBIC YARD.
14. MULCH ALL PLANTBEDS, AND INDIVIDUAL TREES IN LAWN AREAS WITH SHREDDED HARDWOOD BARK MULCH TO A DEPTH OF THREE (3") INCHES UNLESS OTHERWISE SPECIFIED ON PLANTING DETAILS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT DUE TO SITE CONDITIONS.
15. ANY PLANTS WHICH DIE WITHIN ONE GROWING SEASON OR WHICH ARE NOT IN HEALTHY CONDITION AT THE OWNER, OR OWNER'S LANDSCAPE ARCHITECT, SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH THE SAME PLANT (SPECIES, VARIETY AND SIZE) AS SPECIFIED ON THE PLANT SCHEDULE LIST.
16. THE CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIALS AND LAWN AREAS UNTIL THE PROJECT HAS RECEIVED FINAL ACCEPTANCE BY THE OWNER OR OWNER'S REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO: WATERING, WEED CONTROL, PRUNING, STRAITENING, REPLACEMENT, ANTI-DESICCANTS, AS WELL AS TAKING PLANTS THAT HAVE SETTLED TOO DEEP OR ENDURE STRAIGHTENING.
17. UPON COMPLETION AND ACCEPTANCE OF THE LANDSCAPING, THE LANDSCAPE MATERIALS SHALL BE GUARANTEED FOR TWO (2) YEARS. THE GUARANTEE SHALL BE INCLUSIVE OF ALL MATERIAL AND LABOR COSTS. AT THE END OF THE GUARANTEE PERIOD THE OWNER'S REPRESENTATIVE WILL INSPECT ALL PLANT MATERIALS. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REQUIRED REPLACEMENTS WITH PLANT MATERIALS MEETING THE SPECIFICATIONS (E.G. SPECIES, SIZE AND CHARACTER).
18. ALL AREAS DISTURBED BY SITE GRADING AND/OR UTILITY INSTALLATION SHALL RECEIVE APPROVED TOPSOIL (BASED ON APPROVED SAMPLES SUBMITTED BY THE CONTRACTOR) AND SPREAD TO A DEPTH NOT LESS THAN SIX (6") INCHES AFTER COMPACTION. TOPSOIL PLACED FOR LAWNS SHALL BE FINE GRADED, SEEDED, MULCHED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. THIS IS INCLUDING FOUNDATION PLANTBEDS AND PARKING AREAS.
19. LOCATIONS OF EXISTING MISTED UTILITIES SHOWN ON THE SITE PLAN ARE BASED UPON THE BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO CALL FOR A UTILITY STAKEOUT PRIOR TO COMMENCING PLANTING INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, AND SITE APPURTENANCES WHICH OCCURS AS A RESULT OF LANDSCAPE INSTALLATION OPERATIONS.
20. EXISTING TREES INDICATED TO BE REMOVED SHALL OCCUR WHERE THE SITE CONTRACTOR FOR THE PROJECT. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR NEW PLANTINGS OR RESTORATION OF THE DISTURBED AREA (LAWNS, PLANT BEDS, ISLANDS).
21. PRE-EMERGENT HERBICIDE SHALL BE USED UNDER MULCH IN ALL TREE AND PLANTING AREAS.
22. ALL SHRUB BEDS ADJACENT TO LAWN AREAS SHALL HAVE A SPADED EDGE BORDER, UNLESS METAL EDGE, CONCRETE, OR OTHER BORDER IS SPECIFIED.

PASSERO ASSOCIATES
engineering architecture



Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
245 East Main Street, Suite 100
Rochester, New York 14604
(585) 325-1580
Principal-in-Charge: Jesse Sudol, PE
Project Manager: David Carr, PE
Designed by: James Rosenthaler

Revisions

No.	Date	By	Description
10	10/19/21	ABR	PER Town Comments Consultants
9	09/24/21	ABR	PER Town Comments
8	04/19/21	ABR	PER Applicant Comments
7	08/19/21	ABR	FULL REVISED SUBMITTAL PER APPROVED
6	12/08/20	ABR	PER Town Comments Consultants
5	10/09/20	ABR	PER Applicant Comments
4	08/14/20	ABR	PER NYSDOT APPROVAL
3	03/30/20	ABR	PER Town Comments
2	02/06/20	ABR	PER Applicant Comments

LIGHTING / LANDSCAPING PLAN
RWD CLARENCE

Town/City: CLARENCE
County: Erie
State: NEW YORK

Project No: 20213204.0001

Drawing No: C 107
Sheet No: 7

Scale: 1" = 30'

Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION

*Seed Mix B only when you have wet occasional wet locations.

TOPSOIL AND SEEDING NOTES:

1. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR ROUGH GRADING AND RE-SPREADING TOPSOIL IN ALL TURF AND LANDSCAPE AREAS (BEDS AND ISLANDS).
2. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND PREPARATION OF ALL LAWN AND LANDSCAPE AREAS.
3. REMOVE ALL EXISTING VEGITATION DURING GRADING PROCESS.
4. APPLY MINIMUM OF SIX (6) INCHES OF CLEAN TOPSOIL(IMPORTED OR SCREEN ON -SITE) AND FINE GRADE, LEAVING TOPSOIL IN A LOOSE AND FRIABLE CONDITION FOR SEEDING.
5. LIME SOIL OR ADD OTHER ORGANIC AMENDMENTS AS NECESSARY TO ACHIEVE A SOIL pH BETWEEN 5.5 - 7.0
6. LANDSCAPE CONTRACTOR SHALL WORK OVER LAWN AREAS THAT HAVE REMAINED PARTIALLY INTACT, TOP DRESSING WITH SOIL, SCARIFYING, AND SEEDING TO FORM A SMOOTH, FULL, EVEN LAWN, FREE OF BARE SPOTS, INDENTATIONS, AND WEEDS.
7. SEEDING SHOULD BEGIN IMMEDIATELY UPON COMPLETION OF FINE GRADING. SEED SHOULD BE PRESSED INTO THE SOIL TO CREATE GOOD SEED-TO-SOIL CONTACT, NO DEEPER THAN THE THICKNESS OF THE SEED.
8. FERTILIZING. APPLY 10-0-10 FERTILIZER EVENLY AT THE RATE OF 20 POUNDS PER 1000 SQ FT. NO FERTILIZER CONTAINING PHOSPHORUS IS PERMITTED ON SITE.
9. SEED SHOULD BE APPLIED EITHER BY HAND BROADCASTING OR HYDRO SEEDING. TWO PASSES SHALL BE MADE IN PERPENDICULAR DIRECTIONS TO INSURE PROPER COVERAGE.
10. LAWN SEED MIX

MIX A: SEEDING RATE: 4 LBS./1,000 SQ.FT
LOW MAINTENANCE FESCUE LAWN
PREFERRED SEED : LOW MAINTENANCE GRASS SEED MIX OR APPROVED EQUAL
25% FIREFLY HARD FESCUE
25% BIG HORN GT HARD/SHEEP
20% INTRIGUE CHEWINGS FESCUE
20% QUATRO SHEEP FESCUE
10% MINOTAUR HARD FESCUE

MIX B: SEEDING RATE: 4LBS./1,000 SQ.FT
OCCASIONAL WET - WET LOCATIONS
20% RED TOP | 20% VIRGINIA WILD RYEGRASS
30% ALKALI GRASS | 20% FOX SEDGE
10% AUTUMN BENTGRASS | 10% FOWL BLUEGRASS

11. DRY APPLICATION MULCH
A. STRAW MULCH SHOULD BE APPLIED TO NEWLY SEEDED AREAS WITHIN 12 HOURS IF HYDRO MULCH IS NOT UTILIZED.
B. DRY APPLICATION, STRAW. STALKS OF OATS, WHEAT, RYE OR OTHER APPROVED CROPS WHICH ARE FREE OF NOXIOUS WEEDS. WEIGHT SHALL BE BASED ON A 15 PERCENT MOISTURE CONTENT
C. DRY APPLICATION: WITHIN ONE DAY AFTER SEEDING, COVER THE SEEDED AREAS WITH A UNIFORM BLANKET OF STRAW MULCH AT THE RATE OF 100 POUNDS PER 1000 SQ FT OF SEEDED AREA.
12. HYDRO APPLICATION: APPLY APPROVED MULCH IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDED RATES OF APPLICATION. APPLY SEEDING MATERIALS WITH AN APPROVED HYDRO SEEDER.

A COLORED WOOD CELLULOSE FIBER PRODUCT SPECIFICALLY DESIGNED FOR USE AS A HYDRO-MECHANICAL APPLIED MULCH. ACCEPTABLE PRODUCT: CONWED HYDRO MULCH, CONWED FIBERS, 231 4th STREET SW HICKORY, NC

13. FILL TANK WITH WATER AND AGITATE WHILE ADDING SEEDING MATERIALS. USE SUFFICIENT FERTILIZER, MULCH, AND SEED TO OBTAIN THE SPECIFIED APPLICATION RATE. ADD SEED TO THE TANK AFTER THE FERTILIZER AND MULCH HAVE BEEN ADDED. MAINTAIN CONSTANT AGITATION TO KEEP CONTENTS IN HOMOGENEOUS SUSPENSION. PROLONGED DELAYS IN APPLICATION OR AGITATION THAT MAY BE INJURIOUS TO THE SEED WILL BE THE BASIS OF REJECTION OF MATERIAL REMAINING IN TANK.
14. DISTRIBUTE UNIFORMLY A SLURRY MIXTURE OF WATER, SEED, FERTILIZER, AND MULCH AT A MINIMUM RATE OF 57 GALLONS PER 1000 SQ FT (2500 GALLONS PER ACRE). THE OWNER AND PROJECT REPRESENTATIVE MAY ORDER THE AMOUNT OF WATER INCREASED IF DISTRIBUTION OF SEEDING MATERIALS IS NOT UNIFORM.

RED SUNSET MAPLE
JAPANESE ZELKOVA
ROBIN HILL SERVICEBERRY
WHITE SPRUCE
COLORADO BLUE SPRUCE
EMERALD ARBORVITAE
NEON FLASH SPIREA
MISS KIM DWARF LILAC
DWARF MAIDEN GRASS
FOUNTAIN GRASS
RED TWIG DOGWOOD
YELLOW TWIG DOGWOOD

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING/ SPREAD	REMARKS	MATURE HEIGHT	NATIVE	SALT TOLERANCE
DECIDUOUS TREES										
AR	3	ACER RUBRUM 'RED SUNSET'	RED SUNSET MAPLE	2 1/2"-3"	B&B	AS SHOWN	FALL HAZARD	40-45'	YES	YES
ZS	1	ZELKOVA SERRATA 'VILLAGE GREEN'	VILLAGE GREEN JAPANESE ZELKOVA	2 1/2"-3"	B&B	AS SHOWN	FALL HAZARD	40-45'		MODERATE
EVERGREEN TREES										
PG	6	PICEA GLAUCA	WHITE SPRUCE	6'-8'	B&B	15-20'	30' O.C. BUFFER TREE	40-60'	YES	YES
PP	3	PICEA PUNGENS	COLORADO BLUE SPRUCE	6'-8'	B&B	10-20'	30' O.C. BUFFER TREE	30-40'	YES	YES
TO	7	THUJA OCCIDENTALIS 'EMERALD'	ARBORVITAE 'EMERALD'	6'-8'	B&B	5' O.C.	DUMPSTER SCREEN	15-18'	YES	YES
FLOWERING AND ORNAMENTAL TREES										
AC	3	AMELANCHIER CANADENSIS 'ROBIN HILL PINK'	ROBIN HILL SERVICEBERRY	2-2 1/2"	B&B	20'	TREE FORM	20'	YES	YES
DECIDUOUS SHRUBS										
SJ	28	SPIRAEA JAPONICA 'NEON FLASH'	NEON FLASH SPIREA	24" H	B&B	3' O.C.		2 1/2-3'		
SP	17	SYRINGA PATULA 'MISS KIM'	MISS KIM DWARF LILAC	30-36" H	#5 CONT.	4' O.C.		3-4'		
GRASSES AND PERENNIALS										
MS	23	MISCANTHUS SINENSIS 'ADAGIO'	DWARF MAIDEN GRASS	24" H	#2 CONT.	4' O.C.		3-4'		
PA	12	PENNISETUM ALOPECUROIDES 'HAMELN'	FOUNTAIN GRASS	24" H	#2 CONT.	3' O.C.		1 1/2-2 1/2'		
SHRUBS										
CS	13	CORNUS SERICEA	RED TWIG DOGWOOD	24" H	#5 CONT.	6' O.C.	STORM BASIN PLANTING	5-6'	YES	MODERATE
CSF	13	CORNUS SERICEA 'FLAVIRAMEA'	YELLOW TWIG DOGWOOD	24" H	#5 CONT.	6' O.C.	STORM BASIN PLANTING	5-6'	YES	MODERATE

NOTE:
ROCK MULCH SHALL BE 1-3" WASHED RIVER ROCK, UNIFORM IN SIZE AND DEVOID OF ALL FINES.
MATERIAL SHALL BE FREE OF ORGANIC AND INORGANIC DEBRIS OR TRASH.

LANDSCAPING REQUIREMENTS

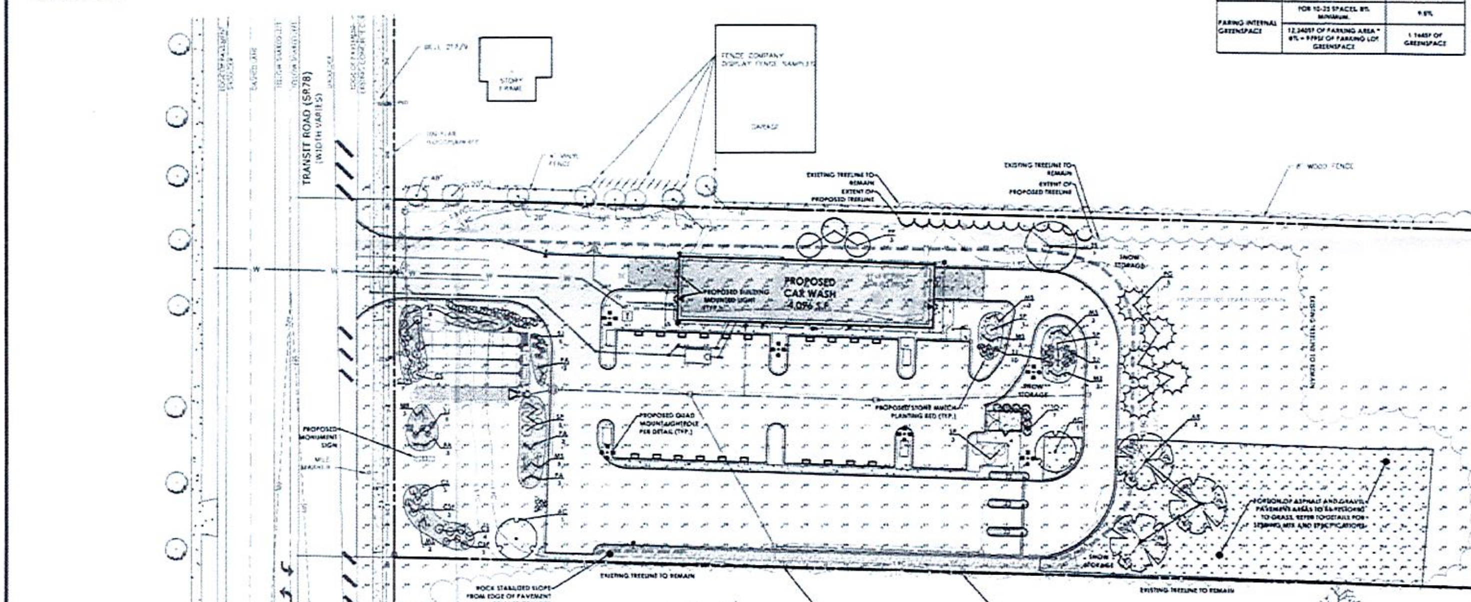
	REQUIRED	PROPOSED
PARKING INTERNAL GREENSPACE	FOR 10-25 SPACES, 8% MINIMUM.	9.8%
	12,340SF OF PARKING AREA * 8% = 995SF OF PARKING LOT GREENSPACE	1,146SF OF GREENSPACE

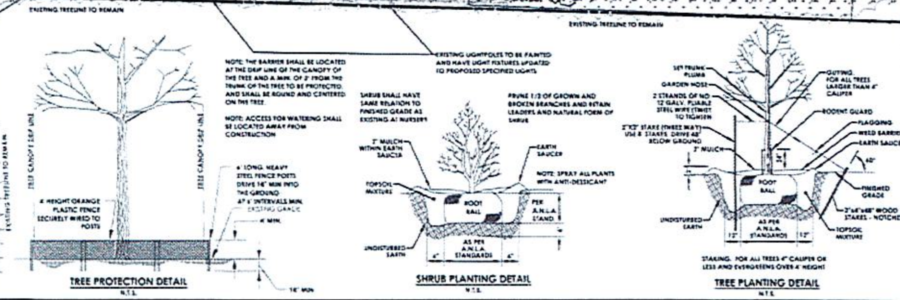
HORIZONTAL SCALE
30 0 15 30 60
SCALE: 1"=30'

LEGEND - LANDSCAPING:

EXISTING FENCE
PROPOSED BUILDING
PROPOSED CONCRETE SIDEWALK
PROPOSED ACCESS RAMP
PROPOSED CURB
PROPOSED SIGN
EXISTING LIGHT POLE
PROPOSED LIGHT POLE
PROPOSED BUILDING MOUNTED LIGHT
PROPOSED FENCE

N





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2. IT IS THE LANDSCAPE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID SUBMITTAL TO BECOME FAMILIAR WITH EXISTING CONDITIONS AT THE SITE.
3. STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", ANSI Z60.1 (LATEST EDITION) REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE THE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS DELIVERED AND INSTALLED ON THIS PROJECT.
4. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
5. ALL PLANTS MUST BE HARDY UNDER CLIMATE CONDITIONS THAT EXIST AT THE PROJECT SITE AND GROWN AT A NURSERY IN THE SAME HARDINESS ZONE AS THE PROJECT LOCATION.
6. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AN MEET SIZE REQUIREMENTS AS INDICATED ON THE PLANT LIST.
7. ALL TREES MUST BE STRAIGHT-TRUNKED, INJURY FREE, HAVE A FULL, SYMMETRICAL CROWN (HEAD) AND MEET ALL REQUIREMENTS SPECIFIED (E.G. SINGLE STEM, MULTI-STEM, HEAVY BRANCHED, ETC.).
8. ANY PROPOSED DEVIATION TO THE LANDSCAPE PLAN MUST FIRST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF THE PROPOSED LANDSCAPING CHANGES.
9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS. THE BID PRICE SUBMITTED WILL ASSUME THAT ALL PLANT MATERIALS DELINEATED WILL BE SUPPLIED AND INSTALLED. ANY DISCREPANCIES IN THE QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR DESIGN LANDSCAPE ARCHITECT (OWNER'S REPRESENTATIVE) PRIOR TO COMPLETING A BID PRICE.
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14. MULCH ALL PLANT BEDS, AND INDIVIDUAL TREES IN LAWN AREAS WITH SHREDDED HARDWOOD BARK MULCH TO A DEPTH OF THREE (3") INCHES UNLESS OTHERWISE SPECIFIED ON PLANTING DETAILS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT DUE TO SITE CONDITIONS.
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PA
PASSERO ASSOCIATES
engineering architecture

Town of CLARENCE
LOCATION SKETCH

Client:
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
Principal-in-Charge: Jess Sudol, PE
Project Manager: David Cox, PE
Designed by: James Ritzenthaler

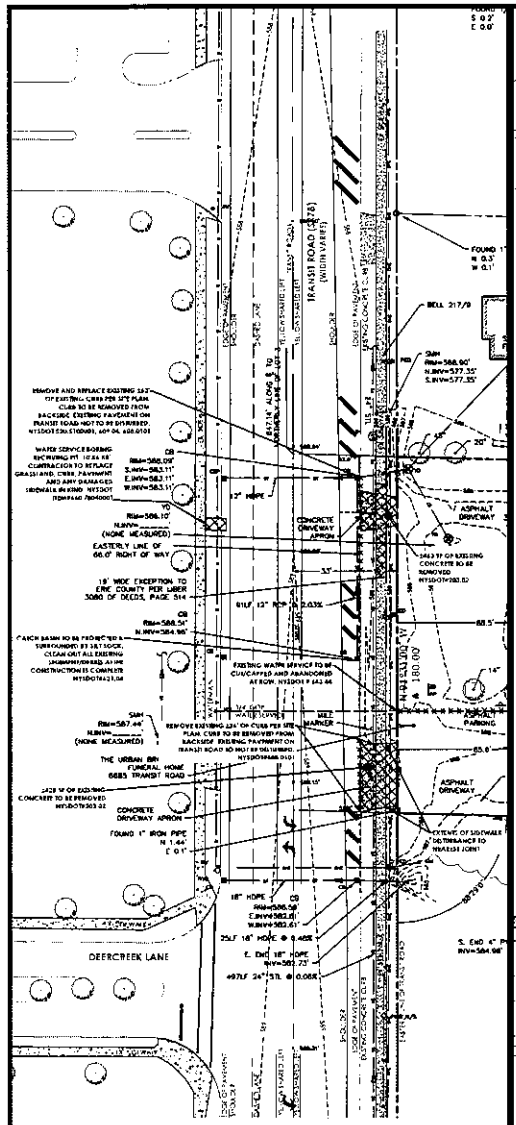
Revisions

No.	Date	By	Description
1	11/29/21	ARG	PER TOWN COMMENT
2	01/24/22	ARG	PER TOWN COMMENT
3	04/14/22	ARG	PER NYSDOT COMMENTS
4	10/21/22	ARG	FULL ACCESS DRIVEWAY PER NYSDOT
5	12/09/22	ARG	PER TOWN ENGINEER COMMENTS

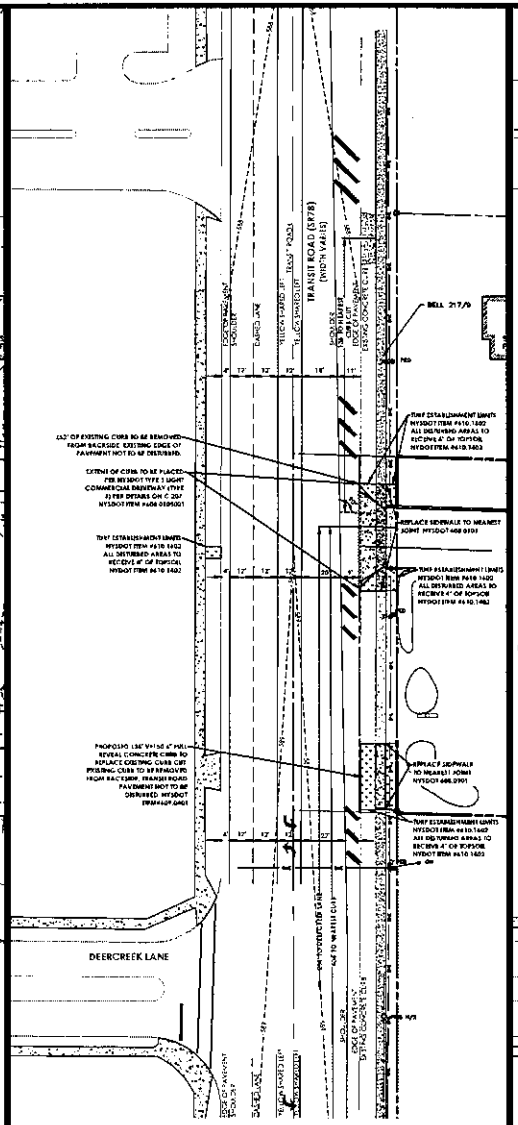
LIGHTING / LANDSCAPING PLAN
RWD CLARENCE

County: Erie | Town/City: Clarence | State: New York
Project No. 20213204.0001
Drawing No. C 107 | Sheet No. 7
Scale: 1" = 30'
Date: SEPTEMBER 2021

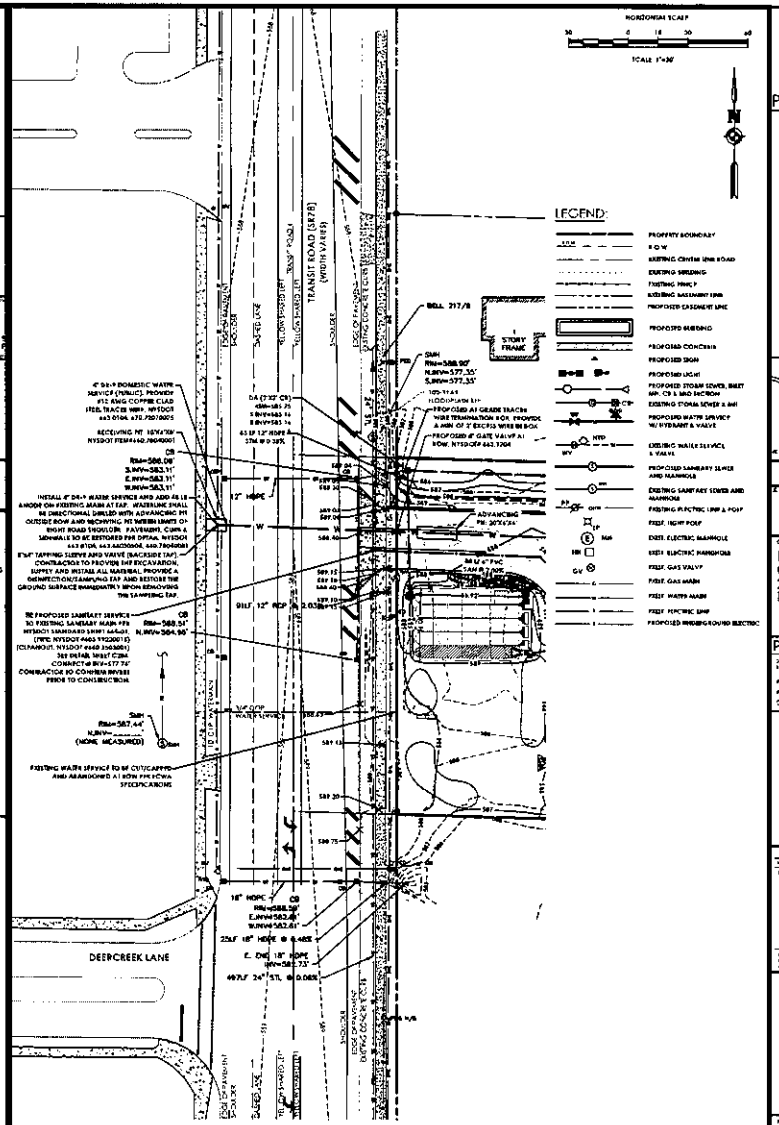
NOT FOR CONSTRUCTION



EXISTING CONDITIONS/DEMOLITION PLAN



SITE PLAN

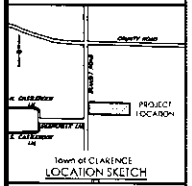


UTILITY/GRADING PLAN

PROPOSED DRIVEWAY PAVEMENT WITHIN ROW.
6" PORTLAND CEMENT CONCRETE PAVEMENT ITEM#502.35010018
8" SUBBASE COURSE NYSDOT ITEM # 304.15 (LAID IN TWO 4" LIFTS)
(SEE DRIVEWAY DETAIL WITHIN ROW (PAVEMENT))

WZTC NOTE
WORK ZONE TRAFFIC CONTROL TO BE PLACED ACCORDING TO NYSDOT STANDARD SHEETS SECTION 619. SEE DETAIL SHEETS.

PASSERO ASSOCIATES
engineering architecture



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4	09/14/21	ABG	PER LA DRAWING APPROVAL
3	07/28/21	ABG	PER TOWN Comment
2	06/08/21	ABG	PER NYSDOT Comment

NYSDOT PLAN

RWD CLARENCE

Town/City: CLARENCE
County: ERIE State: NEW YORK

Project No: 20213204.0001

Drawing No: C.108
Sheet No: 8

Scale: 1" = 30'

Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION

CONSTRUCTION SEQUENCE FOR GRADING AND EROSION CONTROL:

1. INSTALL PERIMETER SILT FENCE
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL POND AREAS.
4. CONSTRUCT DRAINAGE SWALES ALONG PROPERTY LINES AS SHOWN.
5. CLEAR AND GRUB THE PROJECT IMPROVEMENTS AREAS.
6. STRIP TOPSOIL AND HAUL EXCESS OFF-SITE.
7. GRADE IMPROVEMENTS AREAS WITHIN THE PROJECT SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 7 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE.
8. CONSTRUCT DROP INLET PROTECTION DEVICES AFTER STORM SEWER INSTALLATION AS SHOWN ON THIS PLAN.
9. REPLACE TOPSOIL AND FINE GRADE.
10. HYDROSEED ALL DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADING. CONTRACTOR IS RESPONSIBLE TO RESEED IF GRADING IS UNSATISFACTORY.
11. UPON APPROVAL OF THE TOWN, REMOVE ALL TEMPORARY SILTATION CONTROLS.
12. SLOPES SHALL NOT EXCEED 1 VERTICAL TO 3 HORIZONTAL MAX. MAINTAIN 1:4 WHERE POSSIBLE.
13. MINIMUM OF 4" OF TOPSOIL IS TO BE PLACED ON ALL GRASS AREAS.
14. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BASED UPON ACTUAL FIELD CONDITIONS ALONE. CONTRACTOR SHALL PROVIDE FOR THIS COST IN HIS CONTRACT.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SILTATION AND EROSION CONTROL MEASURES FROM INSTALLATION THROUGH MAINTENANCE AND REMOVAL AFTER REVEGETATION HAS BEEN ESTABLISHED.
16. ALL END SECTIONS WILL BE PROVIDED WITH RIP-RAP APRONS.
17. ALL EROSION AND SEDIMENT CONTROL METHODS WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
18. ALL EROSION CONTROL MEASURES WILL BE REMOVED AFTER APPROVED BY QUALIFIED PROFESSIONAL.

AT THE VERY MINIMUM, EROSION CONTROL SHALL BE AS SHOWN ON THIS PLAN. EROSION CONTROL MAY CONSIST OF SEDIMENT TRAPS AND/OR ENVIRONMENTAL FENCES. THE CONTRACTOR AND THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INTEGRITY, MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES UNTIL NO LONGER DEEMED NECESSARY BY THE TOWN OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN THE STORM SEWER SYSTEM UNTIL THE PROJECT IS DEVELOPED AND APPROVED BY THE TOWN AND OWNER.

ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STONE PAD. CORRECTIVE ACTIONS, AS IDENTIFIED BY THE DEVELOPER'S ONSITE REPRESENTATIVE OR A TOWN REPRESENTATIVE, SHALL BE INITIATED WITHIN 24 HOURS OF BEING REPORTED. THE TOWN MAY REVIEW THIS PROJECT SITE AT ANY TIME. REVIEW OF EROSION CONTROL MEASURES BY THE TOWN DOES NOT RELIEVE THE DEVELOPER OF HIS OBLIGATIONS TO EXECUTE RESPONSIBLE STANDARD MANAGEMENT PRACTICES.

PUBLIC WATER SERVICE LINE NOTES (4" & GREATER):

1. WATER SERVICE LINE(S) (LATERALS) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATION AND SPECIFICATIONS OF THE ERIE COUNTY WATER AUTHORITY.
2. WATER SERVICE LINE(S) SHALL HAVE A MINIMUM OF TWO FEET OF COVER FROM FINISHED GRADE IN LAWN AREAS AND TEN FEET COVER FROM FINISHED GRADE IN PAVED AREAS.
3. WATER SERVICE LINE(S) SHALL BE SEPARATED AT LEAST TEN FEET, MEASURED FROM THE OUTSIDE OF THE PIPES, FROM SEWER MAINS OR SEPTIC SYSTEMS.
4. WATER SERVICE LINE(S) SHALL BE AS REFERENCED AS:

	SIZE	MATERIAL (a)	TYPE (b)
TOTAL CAR WASH			
PUBLIC PORTION - FROM THE WATER MAIN TO AND INCLUDING THE CONTROL VALVE ON THE BOUNDARY/PROPERTY/EASEMENT LINE	4"	DR-11	CMB
PRIVATE PORTION - FROM THE CONTROL VALVE TO THE METER	4"	DR-11	CMB

(a) SERVICE TYPES INCLUDE DOMESTIC = DS, FIRE = FS, OR COMBINED = CMB
5. THE PUBLIC PORTION OF THE WATER SERVICE LINE SHALL BE INSTALLED PRIOR TO THE PRIVATE PORTION OF THE SERVICE LINE.
6. WATER METER(S) TO BE LOCATED ON THE INTERIOR OF EXTERIOR WALL(S) IMMEDIATELY UPON SERVICE ENTRANCE INTO THE BUILDING(S). RESIDENTIAL SERVICES: A BY-PASS ASSEMBLY IS NOT REQUIRED AROUND THE INSTALLATION OF 5/8 INCH THROUGH 2-INCH METERS. NON-RESIDENTIAL SERVICES: THE INSTALLATION OF AN 1-6 INCH METER OR LARGER REQUIRES A BY-PASS ASSEMBLY AROUND THE METER.
7. WATER SERVICE LINES SIZED 4-INCHES OR GREATER SHALL BE:
   - PRESSURE TESTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE ERIE COUNTY WATER AUTHORITY. A WATER AUTHORITY REPRESENTATIVE MUST WITNESS THIS TEST.
   - DISINFECTED BY USING THE CONTINUOUS FEED METHOD ACCORDING TO AWWA STANDARD SPECIFICATIONS. AFTER FLUSHING AND DISINFECTING THE SERVICE LINE, WATER SAMPLES SHALL BE COLLECTED BY THE NYS DEPARTMENT OF HEALTH APPROVAL AND NOTIFICATION BY THE HEALTH DEPARTMENT MUST BE RECEIVED BEFORE THE LATERALS IS PLACED IN SERVICE.

STANDARD WATER MAIN EXTENSION NOTES:

1. THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651 (LATEST REVISION). FOLLOWING DISINFECTION, THE WATER MAIN PIPELINE SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM.
   ALL WATER MAIN FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SWAB DISINFECTED 30 MINUTES PRIOR TO INSTALLATION.
   THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING.
   FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.
   THE NYS DEPARTMENT OF PUBLIC HEALTH MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REGARDING SAMPLING SERVICES. SAMPLING WILL NOT BE PERFORMED PRIOR TO RECEIPT FROM A NEW YORK STATE LICENSED OR REGISTERED DESIGN PROFESSIONAL (ENGINEER, ARCHITECT OR LAND SURVEYOR WITH A SPECIAL EXEMPTION UNDER SECTION 7208(e) OF THE EDUCATION LAW) CERTIFYING THAT THE WATER SUPPLY IMPROVEMENTS, TESTING AND DISINFECTION PROCEDURES WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVED AMENDMENTS. THE DEPARTMENT WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL, TOTAL COLIFORM, ESCHERICHIA COLI (E. COLI) AND TURBIDITY.
   THE WATER MAIN PIPE AND APPURTENANCES SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE ERIE COUNTY DEPARTMENT OF PUBLIC HEALTH.
2. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN PIPELINES AND SEWER PIPELINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPE AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
3. WHEN INSTALLING FIRE HYDRANTS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN SEVEN (7) FEET OF THE FINISHED GRADE, FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED.
4. THE WATER MAIN PIPELINE AND APPURTENANCES SHALL BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE AWWA STANDARD C600 (LATEST REVISION) OR IN ACCORDANCE WITH MORE STRINGENT REQUIREMENTS IMPOSED BY THE SUPPLIER OF WATER.

UTILITY NOTES:

1. PRIOR TO THE START OF UTILITY INSTALLATION THE CONTRACTOR AND SUBCONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL UTILITY CONNECTIONS WITH MECHANICAL/ARCHITECTURAL DRAWINGS FOR INCLUDING BUT NOT LIMITED TO VERTICAL AND HORIZONTAL LOCATION, PENETRATIONS, AND SIZES. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNER'S ONSITE REPRESENTATIVE UPON COMPLETION OF COORDINATION WITH CONTRACTORS, AND PLANS.
2. THE DEVELOPER AND HE/HER CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRICAL CABLE, TELEPHONE AND ANY OTHER UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET WITH APPROPRIATE AGENCY. PASSERO ASSOCIATES ASSUMES NO RESPONSIBILITY FOR THE DESIGN OR PERFORMANCE OF UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET.
3. PRIOR TO THE START OF UTILITY INSTALLATION THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY AND COORDINATE WITH EXISTING UTILITIES SHOWN ON THE PLANS AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNER'S ONSITE REPRESENTATIVE UPON COMPLETION EXISTING UTILITY VERIFICATION.
4. THRUST BLOCKS ON THE WATERMAIN ARE REQUIRED AT BENDS, TEES OR PLUGS. SEE DETAIL SHEETS FOR THRUST BLOCK DETAILS.

ELECTRIC & GAS SERVICE COORDINATION NOTES:

1. ELECTRIC AND PLUMBING CONTRACTORS SHALL COORDINATE WITH EACH OTHER AND DIRECTLY WITH NEW YORK STATE ELECTRIC & GAS CORPORATION (NYSEG) FOR METER AND SERVICE LOCATIONS PRIOR TO INSTALLATION.
2. ELECTRIC AND PLUMBING CONTRACTORS SHALL ALLOW FOR THE NECESSARY PROVISIONS WHEN INSTALLING METERS AND SERVICES IN ACCORDANCE WITH NYSEG DESIGN AND INSTALLATION GUIDELINES.
3. ELECTRIC AND PLUMBING CONTRACTORS SHALL DIRECTLY COORDINATE WITH EACH OTHER AND DIRECTLY WITH NYSEG FOR ELECTRIC AND GAS START-UP, RESPECTIVELY.

GENERAL NOTES

1. THE SANITARY WASTE DISPOSAL SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS OF THE NEW YORK STATE DEPARTMENT OF HEALTH AND THE TOWN OF CLARENCE.
2. WATER SERVICE WILL BE INSTALLED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ERIE COUNTY WATER AUTHORITY.
3. THE BUILDING CONSTRUCTION TO BE IN COMPLIANCE WITH THE NEW YORK STATE BUILDING CODE.
4. ANY COST RELATED TO THE RELOCATION OF ANY UTILITIES NECESSITATED BY THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER OR THOSE REQUESTING THE RELOCATION OF THE UTILITY.
5. ANY AND ALL CULVERT LOCATIONS, SIZES OR TYPES, TO BE APPROVED BY THE TOWN SUPERINTENDENT OF HIGHWAYS.
6. ALL PROPERTY CORNERS TO BE MARKED WITH IRON PINS.
7. THIS SUBDIVISION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE COUNTY MONUMENTATION LAW.
8. THE SUBDIVISION IS LESS THAN 1500 FEET FROM THE NEAREST CONTROL MONUMENT AND IS THEREFORE TIED INTO THE MONUMENTATION NETWORK.
9. THIS SUBDIVISION SHALL COMPLY WITH ANY COUNTY OR STATE AGENCIES HAVING JURISDICTION.
10. ALL SITE WORK TO BE IN COMPLIANCE WITH THE STANDARDS OF CHAPTER 29 - ARTICLE V OF THE TOWN OF CLARENCE.
11. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS FOR LAND DEVELOPMENT FOR THE TOWN OF CLARENCE DATED THE MOST CURRENT REVISION.

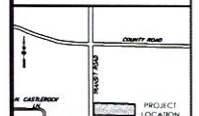
STORM NOTES

1. STORM SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST REGULATIONS OF THE MUNICIPALITY.
2. PROPOSED STORM SEWER LATERAL MATERIAL:
   PVC SDR-35 8" MIN. SEP. & SHALL BE LAID AT A MINIMUM GRADE OF 1/4" PER FT.
   STORM SEWER MATERIAL:
   HDPE 12" MIN.
3. FOUNDATION DRAINS SHALL BE CONNECTED TO STORM WATER SYSTEM VIA SUMP PUMPS. DOWNSPOUTS SHALL BE CONNECTED TO STORM SEWER WHERE APPLICABLE. WHERE NOTED ON THE PLANS, DOWNSPOUTS SHALL DISCHARGE TO SPLASH BLOCKS.
4. UPON COMPLETION OF SYSTEM INSTALLATION, THE MAIN SEWER SYSTEM AND LEADS TO STRUCTURES SHALL BE FLUSHED AND SAMPLED TO THE SATISFACTION OF THE MUNICIPALITY.

SANITARY NOTES

1. SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST REGULATIONS OF THE STATE, COUNTY AND LOCAL MUNICIPALITY.
2. MATERIALS
   - MAINS - PIPING SHALL BE POLYVINYL CHLORIDE (PVC) WITH ENDS SUITABLE FOR ELASTOMERIC GASKET JOINTS, AND A MINIMUM WALL THICKNESS OF SDR-35. PIPING AND FITTINGS SHALL MEET
     ASTM D-3034 (4" THRU 15")
     ASTM F-679 (18" THRU 48")
   - LATERALS - 4" MIN. INSTALLED AT 2% PER 100 LINEAR FEET. PIPING SHALL BE POLYVINYL CHLORIDE (PVC) WITH ENDS SUITABLE FOR ELASTOMERIC GASKET JOINTS, AND A MINIMUM WALL THICKNESS OF SDR-23. PIPING AND FITTINGS SHALL MEET ASTM D-2241.
   - JOINING MATERIALS - SHALL BE BELL-AND-SPIGOT WITH INTEGRAL PUSH ON TYPE ELASTOMERIC GASKET JOINTS. GASKET MATERIAL TO BE NEOPRENE MEETING ASTM D-3212.
   - MANHOLES - SHALL BE PRECAST CONCRETE WITH NEOPRENE GASKETS MEETING ASTM C-478 & ASTM C-443.
3. INFILTRATION AND EXFILTRATION FOR SANITARY SEWERS SHALL BE LIMITED TO 100 GALLONS PER MILE PER INCH DIAMETER OF PIPE PER 24 HOURS.
4. IF AN AIR TEST IS USED, THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C-828-80, PREFERRED STANDARD PRACTICE FOR LOW PRESSURE AIR TEST OF VITRIFIED CLAY PIPELINES. SANITARY MANHOLES SHALL BE TESTED FOR EXFILTRATION.
5. VACUUM TESTING OF MANHOLES IS ALLOWED. THE CONTRACTOR IS CAUTIONED TO SPEAK TO THE SUPERINTENDENT OF SEWERS PRIOR TO COMMENCING WITH PLANS TO VACUUM TEST.
6. DEFLECTION TEST - NEW STATE STANDARDS.
   6.A. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
   6.B. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
   6.C. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
7. ALL SANITARY SEWER INSTALLATION SHALL BE MADE IN CONFORMANCE WITH THE SPECIFICATIONS, REGULATIONS, AND POLICIES OF THE ERIE SEWER DISTRICT.
8. ALL HOUSE LATERALS SHALL HAVE A CLEANOUT AT THE PROPERTY LINE OR EASEMENT LINE.
9. FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY SEWER/COMBINATION SEWER. (FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS). ALL DISCHARGES TO THE SANITARY/COMBINATION SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE ERIE COUNTY SEWER USE LAW.
10. SEPARATION - MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
11. SEWER USE LAW: FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY/COMBINATION SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS. NOTE: ALL DISCHARGES TO THE SANITARY/COMBINATION SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND OR ERIE COUNTY SEWER USE LAW.

PASSERO ASSOCIATES
engineering architecture



Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
342 West Main Street Suite 100
Rochester, New York 14614
(585) 325-1000
Fax: (585) 325-1641
Principal-in-Charge: Jess Sudal, PE
Project Manager: David Cox, PE
Designed by: James Ritzenthaler

Revisions

No.	Date	By	Description
10	03/30/22	ABG	PER TOWN ENGINEER COMMENTS
9	01/24/22	ABG	PER TOWN COMMENT
8	04/14/22	ABG	PER NYSDOT COMMENTS
7	10/21/22	ABG	FULL ACCESS DRIVEWAY PER NYSDOT
6	12/05/22	ABG	PER TOWN ENGINEER COMMENTS
5	02/06/23	ABG	PER NYSDOT COMMENT
4	03/14/23	ABG	PER LA. COUNTIES APPROVAL
3	03/30/23	ABG	PER TOWN COMMENT
2	03/06/23	ABG	PER NYSDOT COMMENT

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS IN VIOLATION OF STATE EDUCATION LAW ARTICLE 145 SEC 7209 TITLE 8 ARTICLE 147 SECTION 7301. THESE PLANS ARE COPYRIGHT PROTECTED ©

NOTES AND DETAILS

RWD CLARENCE

Town/City: CLARENCE
County: ERIE
State: NEW YORK

Project No.
20213204.0001

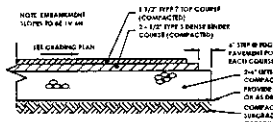
Drawing No.
C 201

Sheet No.
9

Scale
N.T.S.

Date
SEPTEMBER 2021

NOT FOR CONSTRUCTION



ASPHALT PAVEMENT SECTION
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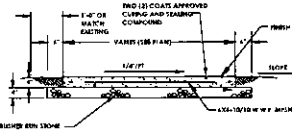
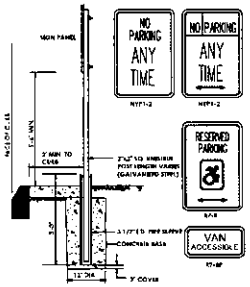


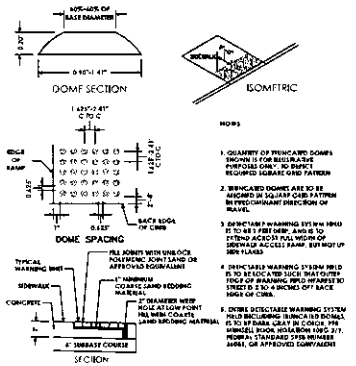
TYPICAL SIDEWALK DETAIL
N.T.S.

CONCRETE PAVEMENT
N.T.S.

MODIFIED INTERNATIONAL SYMBOL OF ACCESS



TYPICAL POST MOUNT HANDICAP SIGN INSTALLATION
(SIGN IN FRONT OF AREA OF SIDEWALK)
N.T.S.



DETECTABLE WARNING SURFACE
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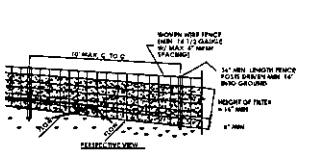

SILT FENCE DETAIL
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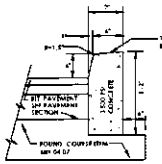

CONCRETE CURB DETAIL
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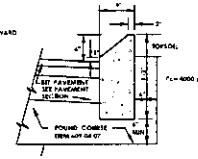

MOUNTABLE CONCRETE CURB DETAIL
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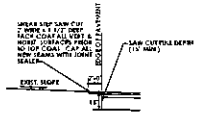
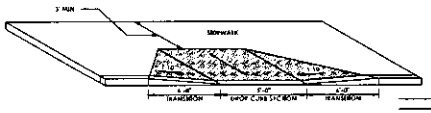
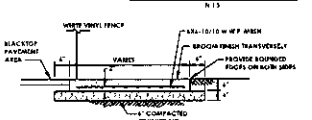
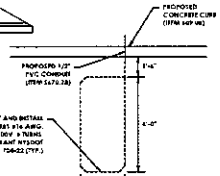


PAVEMENT KEY DETAIL
(FOR CONNECTION TO EXISTING PAVEMENT)
N.T.S.

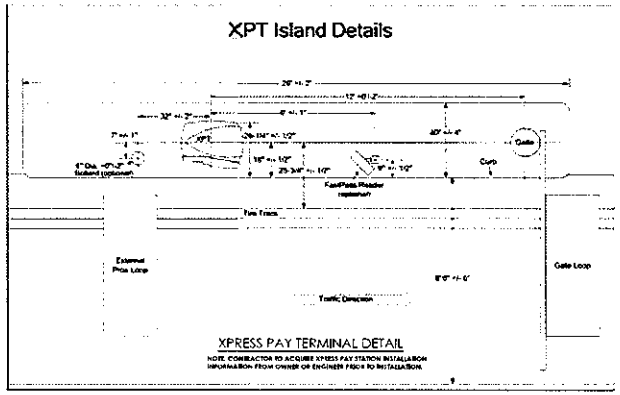


TYPICAL HANDICAP RAMP
N.T.S.

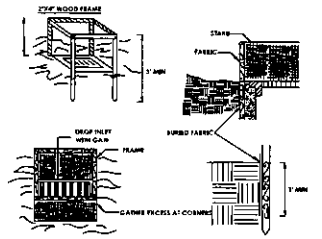




TYPICAL INDUCTANCE TRAFFIC SENSOR LOOP DETAIL
N.T.S.

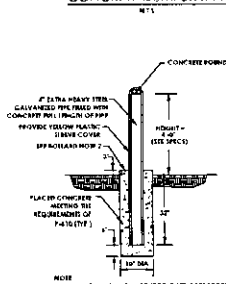


XPRESS PAY TERMINAL DETAIL
NOTE: CONTRACTOR TO ACQUIRE XPRESS PAY STATION INSTALLATION INFORMATION FROM OWNER OR ENGINEER PRIOR TO INSTALLATION.

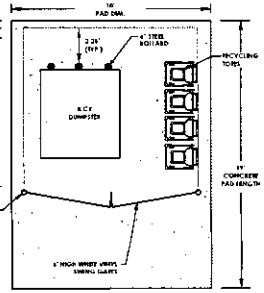


FILTER FABRIC DROP INLET PROTECTION
N.T.S.

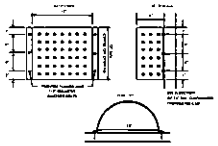
CONCRETE DUMPSTER PAD
N.T.S.



BOLLARD
N.T.S.



DUMPSTER ENCLOSURE DETAIL
N.T.S.



12" CMP SCREEN DETAIL
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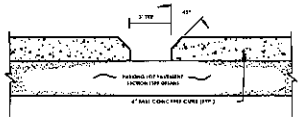

DRAINAGE RELIEF IN CURB
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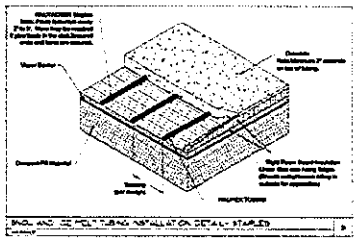

HEATED CONCRETE DETAIL
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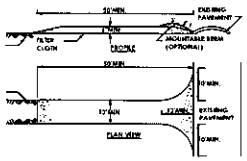
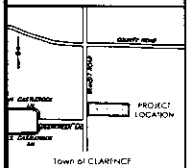


STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

PASSERO ASSOCIATES
engineering architecture



Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES

Principal in Charge: Jesse Sudol, PE
Project Manager: David Carr, PE
Designed by: James Kirchhofer

Revisions

No.	Date	By	Description
10	03/30/21	JMK	PER TOWN COMMENTS COMMENTS
9	01/04/21	JMK	PER TOWN COMMENT
8	01/04/21	JMK	PER TOWN COMMENTS
7	10/29/20	JMK	FULL HOUSE MONITORS PER INSPECT
6	10/06/20	JMK	PER TOWN COMMENTS COMMENTS
5	08/06/20	JMK	PER INSPECT COMMENTS
4	07/14/20	JMK	PER L.A. COMMENTS APPROVAL
3	03/30/20	JMK	PER TOWN COMMENT
2	03/06/20	JMK	PER INSPECT COMMENT

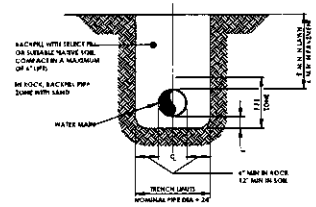
DETAILS

RWD CLARENCE

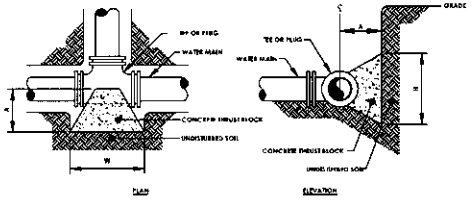
Town/City: CLARENCE
County: ERIE
State: NEW YORK

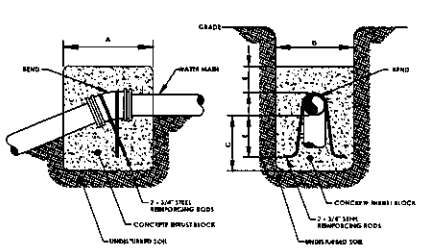
Project No: 20213204.0001
Drawing No: C 202
Sheet No: 10
Scale: N.T.S.
Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION



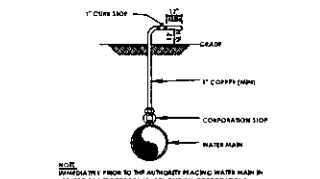
WATERMAIN TRENCH
N.T.S.





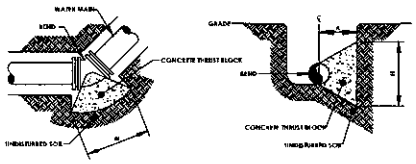
BEND *	MINIMUM VOLUME OF CONCRETE	MINIMUM ALLOWABLE DIMENSIONS FOR VERTICAL THRUST BLOCKS (IN FEET)				
	DIMENSIONS	A	B	C	D	E
4" x 11.1/4" 22.5DEG	0.5	1.0	0.5	1.0	0.5
4" x 22.1/2" 45DEG	0.7	1.5	0.7	1.0	0.5
4" x 45" 90DEG	0.7	1.5	0.7	1.0	0.5

VERTICAL THRUST BLOCK
N.T.S.



NOTE:
IMMEDIATELY PRIOR TO THE AUTHORITY MAKING WATER MAIN IN SERVICE CONTRACTOR SHALL REMOVE ALL CORPORATIONS ASSOCIATED WITH TEMPORARY PACE BRIDGE (I.E. SAMPLING TAPS, ETC.) AND REPLACE WITH BRASS PLUGS. MACHINE OR THREADED BRASS PLUG MUST BE WITNESSED BY A RCWA REPRESENTATIVE

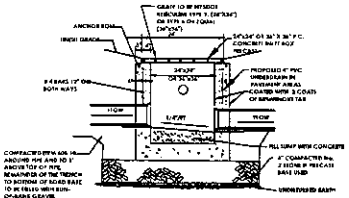
DISINFECTION/BLOW-OFF/SAMPLING TAP



MINIMUM HORIZONTAL THRUST BLOCK DIMENSIONS, IN FEET, TO BE POURED AGAINST UNDISTURBED SOIL			
FITTING	H	W	A
4" x 11.1/4" BEND	0.5	1.0	0.5
4" x 22.1/2" BEND	0.7	1.5	0.7
4" x 45" BEND	1.0	2.0	1.0
4" x 90" BEND	1.5	3.0	1.0
4" BLK OF PLUG	1.0	2.5	1.0

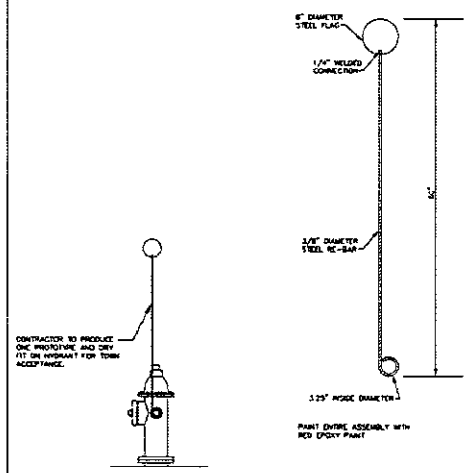
NOTE: WIDTH (W) OR HEIGHT SHALL NOT EXCEED WIDTH AND HEIGHT (H).

HORIZONTAL THRUST BLOCK FOR BENDS
N.T.S.



1. ALL CONCRETE TO BE 5000 psi CLASS A N.Y.S.D.O.T. (REF NOTE 5)
2. ALL CONCRETE IN CONTACT WITH ASPHALT PAVEMENT SHALL BE COVERED WITH A BACK COATING ACCORDANCE WITH N.Y.S.D.O.T. SECTION 687

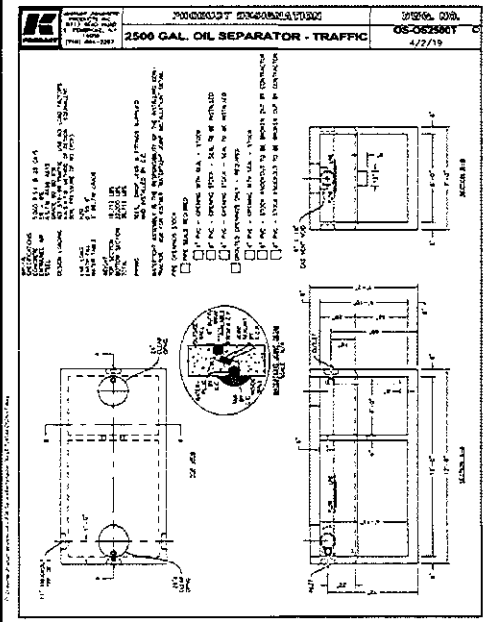
STANDARD CATCH BASIN DETAIL
N.T.S.



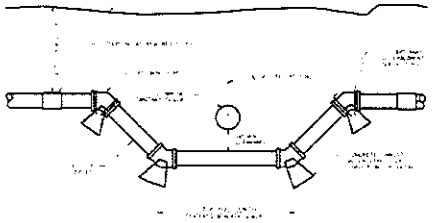
TOWN OF CLARENCE
ENGINEERING DEPARTMENT
TIMOTHY M. LAWCOAT, P.E., TOWN ENGINEER

HYDRANT MARKER

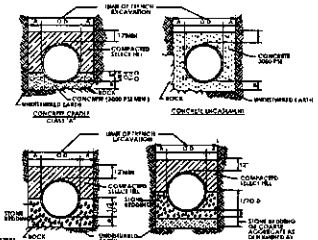
DATE ISSUED: AUGUST 2015
DRAWING SCALE: N.T.S.
REVISION | DATE
DETAIL NO.



2,500 GALLON OIL WATER SEPARATOR



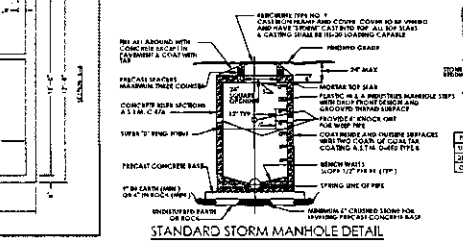
WATERMAIN - SEWER CROSSING
USDA 460.99
NOT TO SCALE



PIPE DIA.	DIM. A	DIM. B
12" TO 18"	1.0'	2'
21" TO 36"	1.5'	4'
OVER 36"	1.5'	12"

1. TRENCH BACKFILL SHALL BE AS REQUIRED BY THE HIGHWAY OWNER.
2. SELECT FILL SHALL BE SAND, GRAVEL, AND SHALL BE MAXIMUM 1INCH SIZE, BE FREE FROM CLAY, LOAM, ORGANIC MATERIAL, DEBRIS, FROZEN MATERIAL AND SHALL CONTAIN ONLY SMALL AMOUNTS OF STONE, PEBBLES OR LUMPS OVER ONE INCH IN DIAMETER (REDUCE SIZE TO ONE HALF INCHES FOR 12 INCH DIAMETER AND LESS).
3. STONE BEDDING SHALL MEAN APPROVED IMPORTED ACCEPTABLE MATERIAL TO BE FURNISHED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, SECTION 203 (TRENCH EXCAVATION AND BACKFILL), SUBSECTION 203-2.01 (TRENCH EXCAVATION), PARAGRAPH 203-2.01 (BEDDING), SUBPARAGRAPH 203-2.01(B) (CRUSHED STONE). PRIMARY SIZE 1/2" A MIXTURE OF PRIMARY (CRUSHED STONE) AND SECONDARY (SAND).
4. COARSE ABSORBENT SHALL MEAN APPROVED IMPORTED ACCEPTABLE MATERIAL MEETING THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, SECTION 203 (TRENCH EXCAVATION AND BACKFILL), SUBSECTION 203-2.01 (TRENCH EXCAVATION), PARAGRAPH 203-2.01(A) (BEDDING), SUBPARAGRAPH 203-2.01(A)(1) (COARSE ABSORBENT).
5. THIS FIGURE APPLIES TO SANITARY SEWER AND CULVERT PIPE INSTALLATION AS WELL AS FORCEMAINS.

STORM SEWER BEDDING DETAILS
N.T.S.



STANDARD STORM MANHOLE DETAIL
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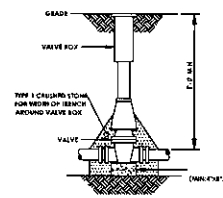
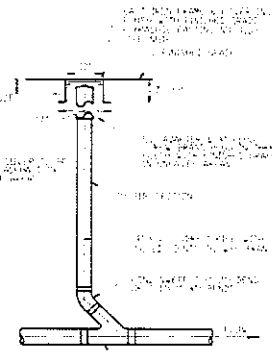


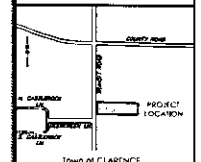
NOTE:
1. VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL
2. VALVE SHALL NOT SUPPORT VALVE BOX
3. ALL BODY AND BONNET BOLTS SHALL BE STAINLESS STEEL.
4. ALL VALVES SHALL BE OPEN LEFT EXCEPT VALVES 12" AND SMALLER

WATER VALVE
N.T.S.



CLEANOUT IN-LINE
NOT TO SCALE

PASSERO ASSOCIATES
engineering architecture



LOCATION SKETCH

Owner
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
243 West High Street Suite 100
Rochester, New York 14611
Phone: (585) 325-1691
Principal in Charge: Jesse Passero, PE
Project Manager: Steven Cox, PE
Designed by: James Rotzenmeister

Revisions

No.	Date	By	Description
10	03/08/2021	JRR	PER TOWN COMMENTS COMMENTS
9	03/04/2021	JRR	PER TOWN COMMENT
8	02/12/2021	JRR	PER HYDRANT COMMENTS
7	10/15/2020	JRR	FULL REDESIGN PRIMARILY PER HYDRANT
6	11/05/2019	JRR	PER TOWN COMMENTS COMMENTS
5	10/08/2019	JRR	PER HYDRANT COMMENT
4	10/04/2019	JRR	PER L.O. COMMENTS APPROVAL
3	09/04/2019	JRR	PER TOWN COMMENT
2	04/08/2019	JRR	PER HYDRANT COMMENT
1	03/08/2019	JRR	INITIAL ISSUE

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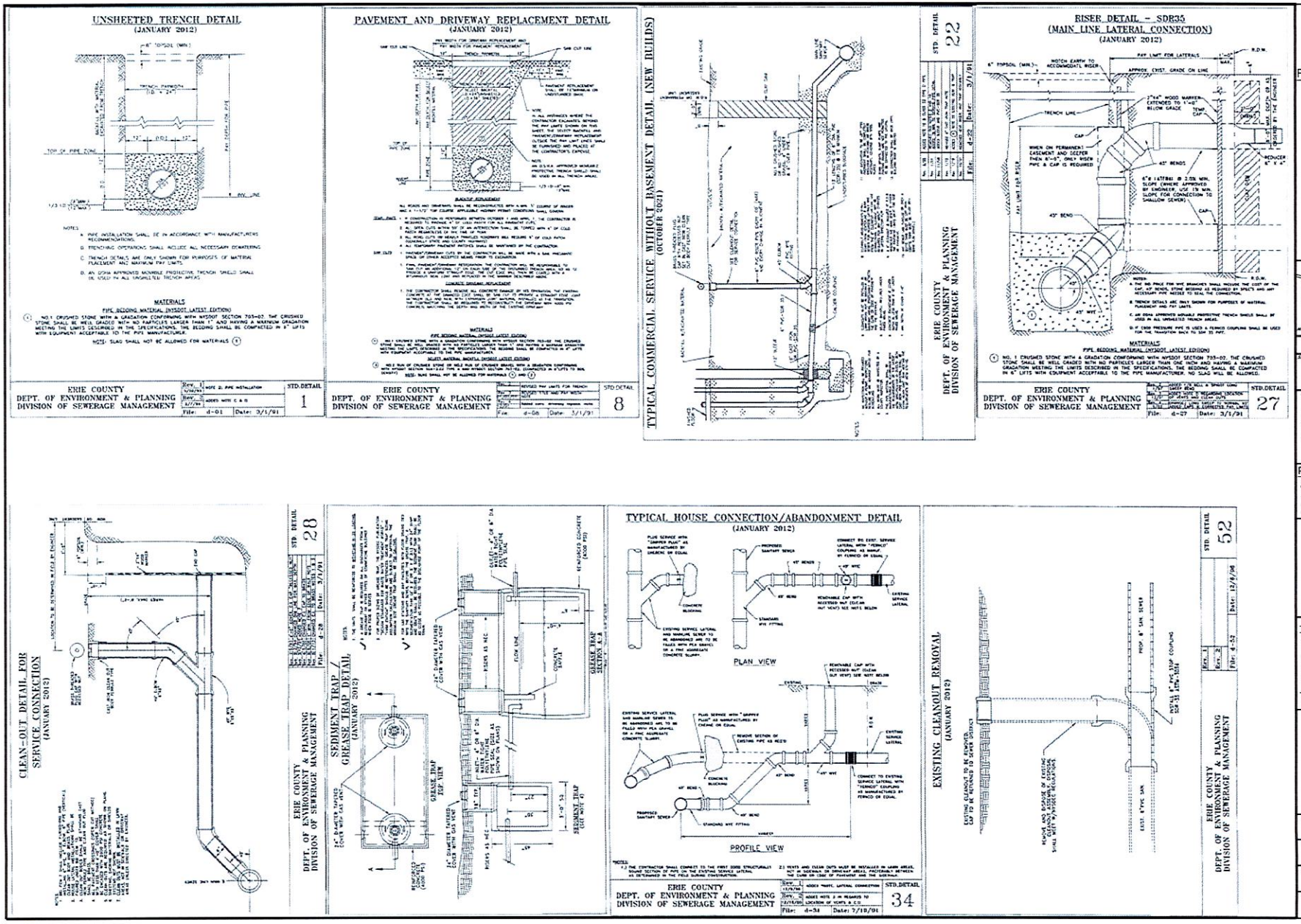
DETAILS

RWD CLARENCE

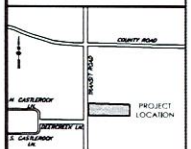
Town/City: CLARENCE
County: ERIE
State: NEW YORK

Project no.: 20213204.0001
Drawing no.: C 203
Sheet no.: 11
Scale: N.T.S.
Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION



PASSERO ASSOCIATES
engineering architecture



Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
242 West Main Street Suite 100 (585) 325-1000
Rochester New York 14614 Fax (585) 325-1441
Principal-in-Charge Jess Sudol, PE
Project Manager David Cox, PE
Designed by James Ritzenthaler

Revisions

No.	Date	By	Description
10	03/30/22	ABG	PER TOWN ENGINEER COMMENTS
3	01/04/22	ABG	PER TOWN COMMENT
2	04/04/22	ABG	PER NYSDOT COMMENTS
4	10/21/22	ABG	FULL ACCESS DRIVEWAY PER NYSDOT
5	12/05/22	ABG	PER TOWN ENGINEER COMMENTS
6	02/06/23	ABG	PER NYSDOT COMMENT
7	03/14/23	ABG	PER LA. COMMTEE APPROVAL
8	03/30/23	ABG	PER TOWN COMMENT
9	03/06/23	ABG	PER NYSDOT COMMENT

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DETAILS

RWD CLARENCE

Town/City: CLARENCE
County: ERIE State: NEW YORK

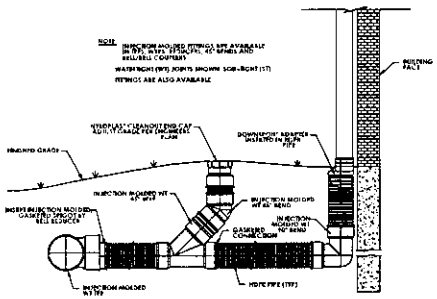
Project No.
20213204.0001

Drawing No. C 204
Sheet No. 12

Scale
N.T.S.

Date
SEPTEMBER 2021

NOT FOR CONSTRUCTION



ROOF DRAIN W/ WYE CLEANOUT
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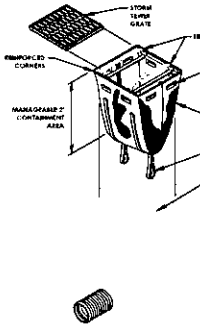

SILT SACK DETAIL
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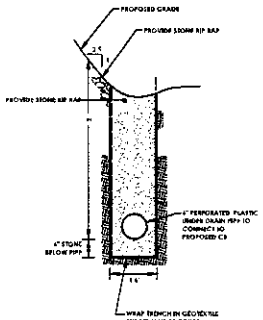

FRENCH DRAIN DETAIL
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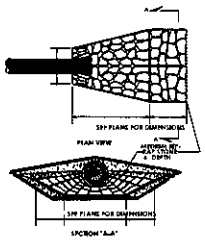

STONE RIP-RAP DETAIL
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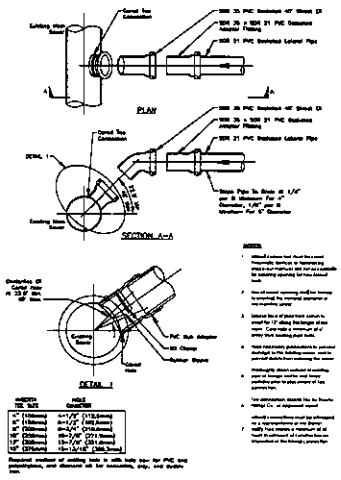

CORED TEE CONNECTION TO EXISTING SEWER
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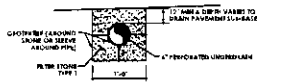

PAVEMENT AREA UNDERDRAIN
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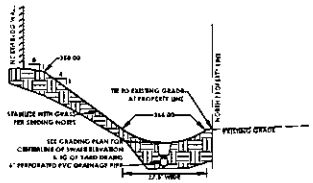

GRASS DRAINAGE SWALE DETAIL
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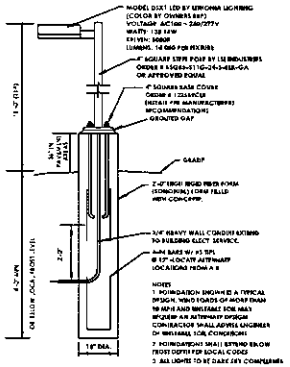
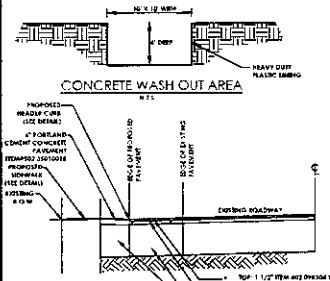


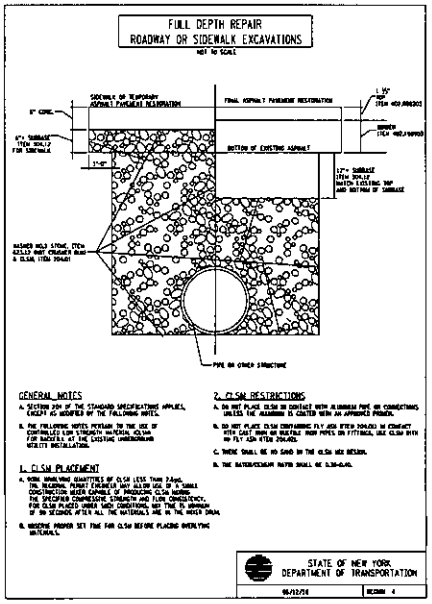
LIGHT POLE AND BASE DETAIL



CONCRETE WASH OUT AREA
N.T.S.

NOTE:
FACE COAT TO BE APPLIED BETWEEN ALL JOTS, FLAPPER, AND ALL VERTICAL SURFACES

DRIVEWAY DETAIL WITHIN ROW (PAVEMENT)
(TO BE USED IN THE NYSDOT RIGHT OF WAY)



FULL DEPTH REPAIR
ROADWAY OR SIDEWALK EXCAVATIONS
NOT TO SCALE

GENERAL NOTES

A. SECTION 204 OF THE STANDARD SPECIFICATIONS APPLIES, EXCEPT AS MODIFIED BY THE FOLLOWING NOTES.

B. THE FOLLOWING NOTES PERTAIN TO THE USE OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) FOR BACKFILL AT THE EXISTING UNDERGROUND UTILITY INSTALLATION.

1. CLSM PLACEMENT

A. WORK HOURS/QUANTITIES OF CLSM LESS THAN 2.0cu. YDS. REQUIRE PERMIT (WHICH MAY ALLOW USE OF "CLASS CONSTRUCTION" WITH CAPABLE OF PRODUCING CLSM NORMS. THE SPECIFIED COMPRESSIVE STRENGTH AND FLOW CONSISTENCY. FOR CLSM PLACED UNDER SUCH CONDITIONS, SET TIME IS WITHIN OF 300 SECONDS AFTER ALL THE MATERIALS ARE IN THE MIXER DRUM.

B. MIXING PROVIDE SET TIME FOR CLSM BEFORE PLACING OVERLYING MATERIALS.

2. CLSM RESTRICTIONS

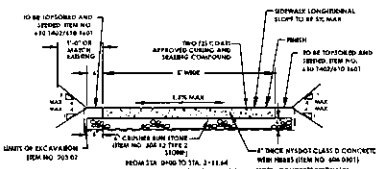
A. DO NOT PLACE CLSM IN CONTACT WITH ALUMINUM PIPE OR CONNECTIONS, UNLESS THE ALUMINUM IS COATED WITH AN APPROVED PRIMER.

B. DO NOT PLACE CLSM CONTAINING FLY ASH WITH SOILED IN CONTACT WITH CAST IRON OR DUCTILE IRON PIPES OR FITTINGS, USE CLSM WITH NO FLY ASH WITH ZINC.

C. THERE SHALL BE NO SAND IN THE CLSM MIX DESIGN.

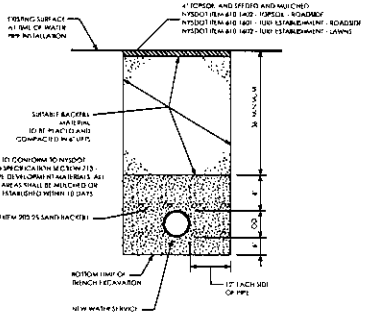
D. THE WATER/CEMENT RATIO SHALL BE 0.30-0.40.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
06/12/04 | REVISION 4

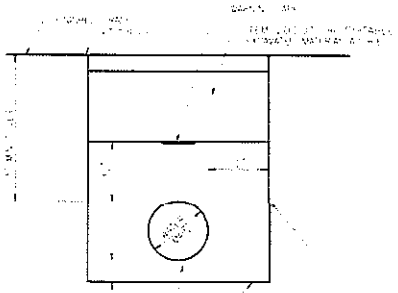


NOTES
1. CONCRETE SIDEWALKS SHALL BE REMOVED AND REPLACED IN FULL SECTIONS TO THE NEXT CONTROL JOINT
2. EXPANSION JOINT MATERIAL IS REQUIRED PER NYSDOT STANDARD SPECIFICATIONS SECTION 608.13.01

NYSDOT SIDEWALK DETAIL
(TO BE USED IN THE NYSDOT RIGHT OF WAY)
SIDEWALK TO MATCH REQUIREMENTS OF NYSDOT STANDARD SHEET 608.01

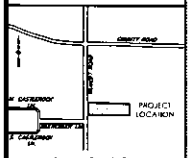


NYSDOT ROW LAWN RESTORATION DETAIL
N.T.S.



NYSDOT WATERMAIN BEDDING
N.T.S.

PASSERO ASSOCIATES
engineering architecture



Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

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353 West Main Street Suite 100
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Principal in Charge: Jesse Sudell, PE
Project Manager: Daniel Gish, PE
Designed by: James Rosenthaler

Revisions

No	Date	By	Description
10	01/05/22	ABG	PER TOWN COMMENTS COMMENTS
9	01/04/22	ABG	PER TOWN COMMENT
8	06/04/21	ABG	PER NYSDOT COMMENTS
7	10/21/21	ABG	FULL ACCESS WINDOW PER NYSDOT
6	11/05/21	ABG	PER TOWN COMMENTS COMMENTS
5	10/06/21	ABG	PER NYSDOT COMMENTS
4	07/14/21	ABG	PER LA COUNTYEC APPROVAL
3	01/29/21	ABG	PER TOWN COMMENT
2	11/05/21	ABG	PER NYSDOT COMMENT

DETAILS

RWD CLARENCE

Town/City: CLARENCE
County: ERIE | State: NEW YORK

Project No: 20213204.0001

Drawing No: C 205 | Sheet No: 13

Scale: N.T.S.

Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION

NYSDOT STANDARD WORK ZONE TRAFFIC CONTROL NOTES

1. WORK ZONE TRAFFIC CONTROL REVISION
Proposed revisions to the Work Zone Traffic Control (WZTC) plan or modifications to the 619 Standard Sheets shall be submitted to the engineer for the review and approval by the Regional Traffic Engineer prior to the planned implementation of such revisions or modifications. The Contractor shall not implement the proposed revisions without approval from the Regional Traffic Engineer. When applicable, NYSDOT Work Zone Traffic Control (WZTC) typical applications shall be used. Typicals can be found at https://webapps.dot.ny.gov/work-zone-traffic-control

2. TRAVEL LANE WIDTHS IN WORK ZONES
Where not shown in the WZTC plans or otherwise authorized by NYS DOT (or the engineer), travel lane widths in work zones shall be a minimum of 11 ft on freeways, ramps, expressways and multi-lane* conventional roadways and 10 ft on all other conventional roadways.
*Multi-lane roadways are those with two or more thru lanes in one or both directions.

3. DAILY LANE, RAMP AND SHOULDER CLOSURE RESTRICTION
Work zones shall be restricted to one side of the roadway at a time in each direction on divided roadways, unless approved by the Engineer. The Contractor shall schedule work so that all travel lanes and ramps in each direction are open when the Contractor's operations are closed down or substantially closed down.
Daily closures may occur off of long-term closures and shall be subject to daily closure restrictions. All WZTC signs and devices shall be removed at the end of each work day. No overnight closures allowed.
Work zones shall be restricted to one side of the roadway at a time on undivided highways.
There shall be no lane or shoulder closure during the PM Peak of 4-6 PM.

4. SIGNALIZED INTERSECTIONS
When construction operations affect signalized intersections, the traffic signal shall be turned off before proceeding with the flagging operation, and any existing W3-3 signs covered.
The contractor shall return the signal to a 3-color operation at the end of the work operation. If the signal does not return to 3-color operation, the contractor shall notify the Region 3 Signal crew and must continue flagging until the Signal crew arrives and the signal is repaired.
The contractor shall obtain a police panel key from, and return it to, the Region 3 NYS DOT Signal crew EIC.
The NYS DOT Signal Crew EIC can be reached at 315-428-4064 or 315-426-2131.

5. HOLIDAY CLOSURE RESTRICTIONS
Daily lane, ramp and shoulder closures shall not be permitted on state owned roadways during major holidays. For a list of the major holidays, see special note in the contract proposal for temporary lane closure restrictions for major holidays.
Daily lane, ramp and shoulder closures shall not be permitted as described in EI 17-010. Below are holiday periods based on guidelines from EI 17-010. All restrictions are from 6:00 AM on the first day until 6:00 AM on the last day of the restriction.

2023

6:00 am Friday, December 30, 2022 thru 6:00 am Tuesday, January 3, 2023 - (New Year's Holiday)

6:00 am Friday, May 26, 2023 thru 6:00 am Tuesday, May 30, 2023 - (Memorial Day Holiday)

6:00 am Saturday, July 1, 2023 thru 6:00 am Wednesday, July 5, 2023 - (July 4th Holiday)

6:00 am Friday, September 1, 2023 thru 6:00 am Tuesday, September 5, 2023 - (Labor Day Holiday)

6:00 am Wednesday, November 22, 2023 thru 6:00 am Monday, November 27, 2023 - (Thanksgiving Holiday)

6:00 am Friday, December 22, 2023 thru 6:00 am Tuesday, December 26, 2023 - (Christmas Holiday)

6:00 am Friday, December 29, 2023 thru 6:00 am Tuesday, January 2, 2024 - (New Year's Holiday)

2024

6:00 am Friday, December 29, 2023 thru 6:00 am Tuesday, January 2, 2024 - (New Year's Holiday)

6:00 am Friday, May 24, 2024 thru 6:00 am Tuesday, May 28, 2024 - (Memorial Day Holiday)

6:00 am Thursday, July 4, 2024 thru 6:00 am Monday, July 8, 2024 - (July 4th Holiday)

6:00 am Friday, August 30, 2024 thru 6:00 am Tuesday, September 3, 2024 - (Labor Day Holiday)

6:00 am Wednesday, November 27, 2024 thru 6:00 am Monday, December 2, 2024 - (Thanksgiving Holiday)

6:00 am Saturday, December 21, 2024 thru 6:00 am Thursday, December 26, 2024 - (Christmas Holiday)

6:00 am Tuesday, December 31, 2024 thru 6:00 am Thursday, January 2, 2025 - (New Year's Holiday)

6. NOTIFICATION REQUIREMENTS
Region 3 Traffic Advisory Report (TAR) shall be completed as directed and NITEC shall be notified prior to beginning of WZTC placement on Transit Road. Form and instructions included in the approved permit package.
Freeways and Expressways: all lane, shoulder, road, ramp or bridge closures.
(This includes mobile operations which occupy the lane or shoulders.)
All Other State Highways: all lane closures where duration will be greater than 2 hours and all road/bridge closures.
The Contractor shall report proposed WZTC activities noted above to the TMC by NOON of the business day (i.e. Monday through Friday excluding holidays) preceding the proposed WZTC activity. Failure to do so will result in disapproval to perform the unreported WZTC activity until the above notifications requirements are satisfied.
No planned WZTC activity shall be implemented without first receiving clearance from the RTMC.

8. WORK AREA COORDINATION
The Contractor shall coordinate work activities with other contracts within and/or adjacent to the contract work limits.

9. ACCESS
The sidewalk shall remain open to pedestrian traffic until sidewalk removal/replacement is scheduled. Approved pedestrian detour included in this permit will then be implemented and remain in place until sidewalk is again available for pedestrian use. Pedestrian detour not to exceed 5 working days. The Contractor shall ensure that active lanes of traffic on freeways are not crossed by pedestrian workers. For all other highways, the contractor shall ensure that pedestrian workers cross active lanes of traffic only at properly marked or unmarked crosswalks and/or dedicated pedestrian walkways. It is required that the Project Safety and Health Plan address access to each work and staging area.
Where it is feasible, vehicles and equipment used for the work and transporting of workers to/from the work site shall enter and leave the area closed by channelizing devices within the Termination Area of the Temporary Traffic Control Zone. Where such access within the Termination Area is not feasible, other areas for entry and exit shall be determined and included in the Project Safety & Health Plan, including illustrated examples (Typicals) to clearly show the temporary traffic control elements that will be provided.

10. CHANNELIZING DEVICES
All channelizing devices shall be placed so as to provide a 2 foot lateral clearance to the traveled way unless otherwise shown on the plans. Where possible a lateral buffer space of 2 feet minimum shall be provided between the work space and the channelizing devices.
Channelizing device spacing (center to center) shall be 40' maximum for posted speed limits 40 mph or greater and 20' maximum for posted speed limits 35 mph or less.
Standard cones and tubular markers shall not be used for channelization and delineation during the hours of darkness, which is defined as the period between sunset and sunrise.

11. SIGNS
All construction signs shall be mounted at a height of 7 feet above the edge of travel lane.
Signs shall not encroach more than 4" into shoulders used by pedestrians or bicycles.
Where shoulder widths are limited and signs cannot be erected beyond the shoulder, construction signs may need to be mounted on concrete median barriers, bridge parapets, etc.

12. MISCELLANEOUS (Local or Permit projects)
1. The Contractor shall be aware that the Work Zone Traffic Control is a very critical item of the permit and shall be provided in accordance with Section 619 "Work Zone Traffic Control" of the Standard Specifications, the 2009 edition of the National Manual on Uniform Traffic Control Devices for Streets and Highways and the New York State Supplement. The Contractor shall be responsible for Work Zone Traffic Control at all times for the duration of the permitted work.
2. Actual field conditions may require other signs and other arrangements of signs. Distances shall be adapted to prevailing conditions. Signs shall be located to provide optimum visibility. Signs that are not applicable shall be covered or removed from sight. All sign numbers refer to the 2009 edition of the National Manual on Uniform Traffic Control Devices for Streets and Highways and the New York State Supplement.
3. Pedestrian accommodations shall be maintained for the duration of the proposed work. Any disturbed areas within the State Right-of-Way shall be adequately fenced to prevent pedestrian access when the contractors operations are shut down.
4. Materials, equipment and vehicles shall not be stored or parked within the State Right-of-Way before work begins or after contractor's operations are shut down. Staging areas outside the right-of-way shall be used to stockpile all construction materials.
During working hours, no construction material may be stored or placed on the roadway or shoulder except within a protected work area.
5. Vehicles belonging to the Contractor or workers shall not be parked within 30 feet of the edge of pavement along a roadway being used by the general public, unless they are parked within a protected work area.
During non-working hours, construction equipment and materials shall not be stored within 30 feet of the edge of pavement.
6. W20-7A "Flagger" signs shall be used whenever flagging occurs for more than a brief period of time. The signs shall be promptly removed, covered, or faced away from traffic when the flagging operation ceases.
All flagging stations and lane closures should be located to ensure maximum visibility.
7. No drop-off greater than six inches shall be left overnight within 30 feet of the edge of pavement. Drop-offs less than six inches will be permitted if proper delineation and signing is provided, and prior permission is granted in writing by a representative of the Department. A drop-off is considered eliminated if tapered away by a 1 on 4 slope or flatter.
8. Damages caused by/during construction activity within the State ROW shall be repaired or replaced at the contractor's expense. Repairs or replacements shall be to meet current NYSDOT Standards and Specifications.
9. The Contractor may submit revisions to this plan for approval, but any change that alters the basic concepts of the plan must be approved by the NYSDOT Regional Director or his designee.

NYSDOT STANDARD GENERAL PLAN NOTES

1. ROAD TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
2. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
3. MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE NEW YORK STATE RIGHT-OF-WAY.
4. MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THE CURRENT NATIONAL MUTCD WITH NYS SUPPLEMENT, SECTION 619 OF THE CURRENT NYSDOT STANDARD SPECIFICATIONS, MPSP PLANS AND AS ORDERED BY THE ASSISTANT RESIDENT ENGINEER. ON A NYSDOT CONSTRUCTION PROJECT, MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THESE PLANS AND BE IN ACCORDANCE WITH THE NYSDOT CONTRACT DOCUMENTS AS DEEMED NECESSARY BY THE NYS ENGINEER-IN-CHARGE.
5. NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S ASSISTANT RESIDENT ENGINEER FIVE (5) WORK DAYS PRIOR TO WORKING WITHIN THE STATE RIGHT-OF-WAY.
6. NOTIFY THE NYSDOT SIGNAL MAINTENANCE FACILITY AT (585) 753-7993 5 DAYS PRIOR TO WORKING WITHIN 350' OF A SIGNALIZED INTERSECTION. NOTIFY DIG SAFELY NEW YORK 2 WORK DAYS PRIOR TO DIGGING, DRILLING OR BLASTING AT 811 FOR A UTILITY STAKE-OUT.
7. ALL MATERIALS USED WITHIN THE STATE RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION'S STANDARD SHEETS.
8. QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 401 OF THE STANDARD SPECIFICATIONS. ALL ASPHALT PRODUCED AS PART OF SECTION 401 WILL BE PAID AT A FINAL QUANTITY ADJUSTMENT FACTOR OF 1.0. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE COMPACTED DEPTHS.
9. NO NIGHT WORK SHALL BE ALLOWED UNLESS APPROVED PRIOR TO START OF PROJECT. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC MAY BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.
10. HAZARDOUS WASTE NOTIFICATION - THE PERMITTEE ACCEPTS THE RIGHT-OF-WAY OF THE STATE HIGHWAY IN ITS "AS IS" CONDITION. THE DEPARTMENT OF TRANSPORTATION MAKES NO REPRESENTATION AS TO THE ABSENCE OF UNDERGROUND TANKS, STRUCTURES, FEATURES OR SIMILAR IMPEDIMENTS TO THE COMPLETION OF THE WORK PERMITTED HEREUNDER. SHOULD PERMITTEE FIND SOME PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS TO ITS WORK, THE DEPARTMENT OF TRANSPORTATION SHALL HAVE NO OBLIGATION TO CURE, REMOVE, REMEDY OR OTHERWISE DEAL WITH SUCH PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS. THE PERMITTEE IS REQUIRED TO REMOVE, MODIFY OR OTHERWISE DEAL WITH SUCH UNDERGROUND TANKS, STRUCTURES, FEATURES OR IMPEDIMENTS IN A MANNER WHICH MEETS ACCEPTABLE ENGINEERING PRACTICE AND IS APPROVED BY THE DEPARTMENT OF TRANSPORTATION.
11. ADA COMPLIANCE - ALL WORK ON PEDESTRIAN FACILITIES SHALL BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT (ADA). 05/2018

HIGHWAY RESTORATION DETAIL NOTES

1. HMA ITEMS ARE BASED ON PG 64-22 BINDER. ESALS LESS THAN 30,000,000. TACK COATS REQUIRED BETWEEN ALL LIFTS OF ASPHALT. USE OF POLYPHOSPHORIC ACID (PPA) TO MODIFY THE PG BINDER PROPERTIES IS PROHIBITED. THIS PROHIBITION ALSO APPLIES TO THE USE OF PPA AS A CROSS-LINKING AGENT FOR POLYMER MODIFICATION.

2. DESIGN PGB CONTENT SELECTION
THE PRODUCER SELECTS THE DESIGN PGB CONTENT AT THE BINDER CONTENT THAT RESULTS IN A COMPACTED DENSITY OF 96.5% GMM AT THE DESIGN NUMBER OF GYRATIONS (NDESIGN). UNDER NO CIRCUMSTANCES SHALL THE PERFORMANCE GRADED BINDER CONTENT IN THE HMA MIXTURES BE LESS THAN 5.8% FOR A 9.5 DESIGN, 5.2% FOR A 12.5 DESIGN, 4.5% FOR A 19.0 DESIGN, 4.2% FOR A 25.0 DESIGN, OR 3.7% FOR A 37.5 DESIGN. ALL VOLUMETRIC AND MECHANICAL PROPERTIES ARE CHECKED AT THIS PGB CONTENT TO ENSURE THAT ALL REQUIREMENTS ARE MET.

3. PERFORM ALL WARRANTY WORK IN ACCORDANCE WITH MATERIALS PROCEDURE (MP) 402-01, WARRANTY REQUIREMENTS FOR HOT MIX ASPHALT (HMA) TOP COURSE.

4. AS PER STANDARD SPECIFICATION SECTION 401-4.01 CERTIFIED PRODUCTION, PRODUCTION LESS THAN 500 TONS, AND HIGHWAY PERMIT PRODUCTION, PRODUCTION MEETING THE SPECIFICATION REQUIREMENTS WILL BE ASSIGNED A QAF OF 1.00. PRODUCTION FAILING TO MEET THE SPECIFICATION REQUIREMENTS WILL BE SUBJECT TO EVALUATION ACCORDING TO SECTION 401-4.03, EVALUATION OF SUBLOTS REPRESENTED BY 0.85 QAF.

NYSDOT UTILITY PERMIT NOTES

- ROAD PAVEMENT, SHOULDER AND DRAINAGE ARE NOT TO BE DISTURBED OR UNDERMINED UNLESS INDICATED OTHERWISE IN THE PLANS.
- SUITABLE NON-FROZEN, NON SATURATED BACKFILL TO BE USED AND PLACED IN 6" COMPACTED LIFTS.
- PAVEMENT TO BE MAINTAINED UNTIL A PERMANENT REPAIR CAN BE MADE.
- PAVEMENT TO BE REPLACED IN KIND OR AS SPECIFIED ON ATTACHED PLANS.
- ALL DISTURBED GRASS AREAS WITHIN THE R.O.W. ARE TO BE FINE GRADED, 4" TOPSOIL PLACED AND TURF ESTABLISHED.

NOTE

ROAD PLATES SHALL NOT BE USED DURING THE SNOW AND ICE SEASON (NOVEMBER 1ST THROUGH APRIL 1ST). DURING THE MONTHS OF OCTOBER AND APRIL, CALL THE WORK AREA JURISDICTIONAL N.Y.S.D.O.T. TRANSPORTATION MAINTENANCE RESIDENCY WITH PLATE LOCATIONS. ROAD PLATES SHALL BE PINNED AND RAMPED. A "STEEL PLATE AHEAD" SIGN (W8-24) SHALL BE INSTALLED IN ADVANCE OF THE PLATE IN ACCORDANCE WITH SAFETY NY6N-2 ON STANDARD SHEET 619-11. IF THE SURFACE OF THE PLATE IS 1" OR GREATER ABOVE/BELOW THE SURROUNDING PAVEMENT, A "BUMP" SIGN (W8-1) SHALL BE INSTALLED BETWEEN THE PLATE AND "STEEL PLATE AHEAD" SIGN IN ACCORDANCE WITH TABLE NY6N-3 ON STANDARD SHEET 619-11 AND A BARREL WITH A TYPE A FLASHER SHALL BE PLACED ON THE SHOULDER AT THE PLATE.

WINTER ASPHALT PAVEMENT AND SHOULDER RESTORATION.

EXCAVATION BACKFILL SHALL BE WITH NO. 2 STONE (NOT CRUSHER RUN), ITEM 623.12, PLACED TO SIX INCHES (6") BELOW THE EXISTING PAVEMENT SURFACE. THE REMAINING SIX INCHES (6") SHALL HAVE CONCRETE PLACED TO MATCH EXISTING ADJACENT PAVEMENT GRADE AND SHALL HAVE A GOOD, SMOOTH, NON-POLISHED RIDING SURFACE. IN THE SPRING, WHEN ASPHALT PLANTS OPEN, THE CONCRETE AND STONE SHALL BE REMOVED TO THE EXISTING BOTTOM OF THE SUBBASE IN ORDER TO PERFORM FINAL RESTORATION PER PREVIOUSLY APPROVED N.Y.S.D.O.T. PAVEMENT RESTORATION PROCEDURES.

TEST PITS

ALL TEST PITS IN THE PAVEMENT SHALL BE COMPLETED BY AN 18" SQUARE/ROUND VACUUM EXCAVATION.

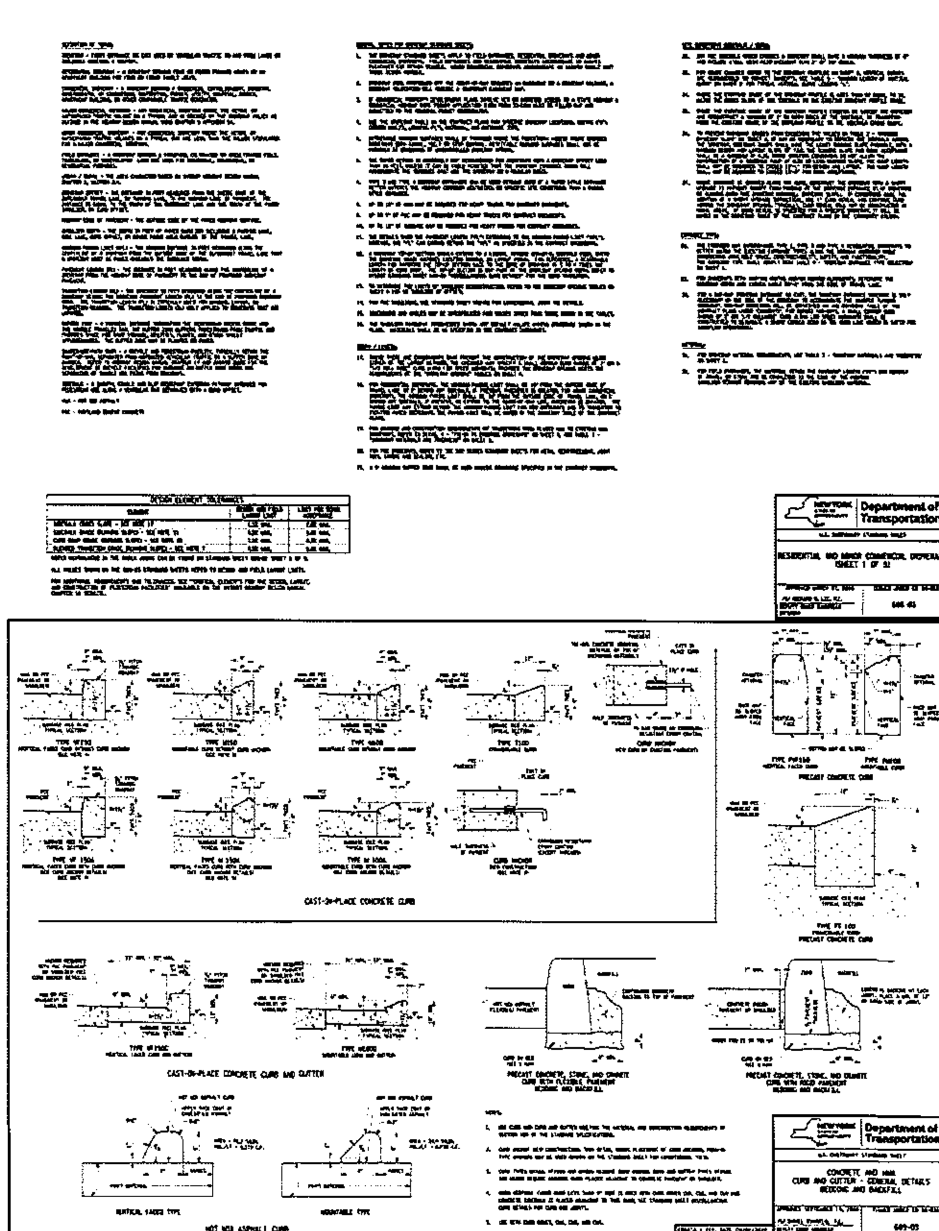
EXCAVATION SUPPORT SYSTEM REQUIREMENTS

ANY EXCAVATION 5 FEET OR MORE IN DEPTH SHALL UTILIZE A SHIELDS AND SHORING OR SHEETING SYSTEM WHICH PROVIDES DIRECT CONTACT AND SUPPORT OF THE EXCAVATION SIDES. THE SYSTEM SHALL ACCOMMODATE ANY ASSOCIATED SURCHARGE LOADS AND SHALL BE SUBMITTED TO NYSDOT'S REGIONAL GEOTECHNICAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE.

A SLOPING (LAYBACK) OPTION WILL NOT BE ALLOWED.

SHIELDS AND SHORING OR SHEETING SYSTEM REQUIREMENTS DO NOT PERTAIN TO TEST PITS, WHICH ARE 18" OR LESS IN DIAMETER.

R-4 (03/15)



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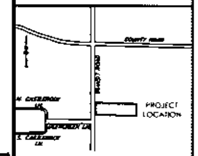


Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES

Revisions

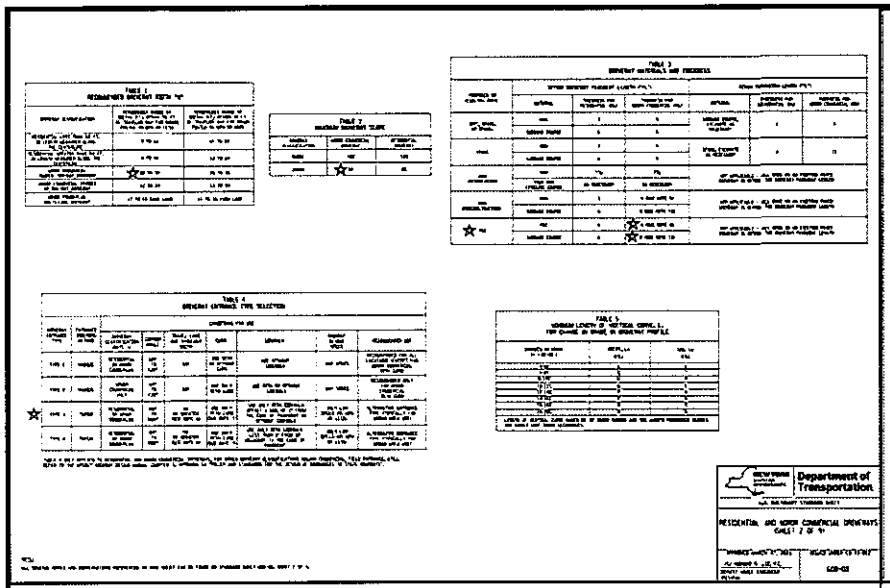
DETAILS

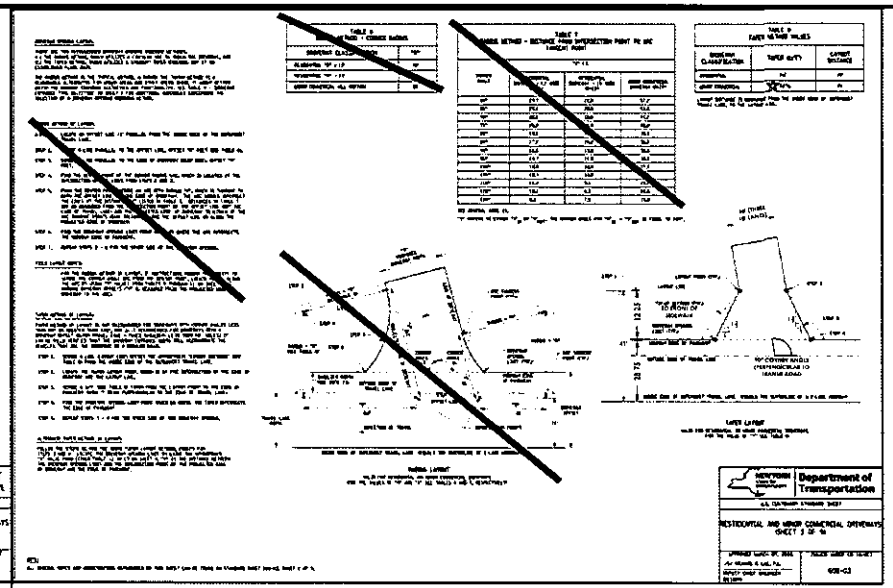
RWD CLARENCE

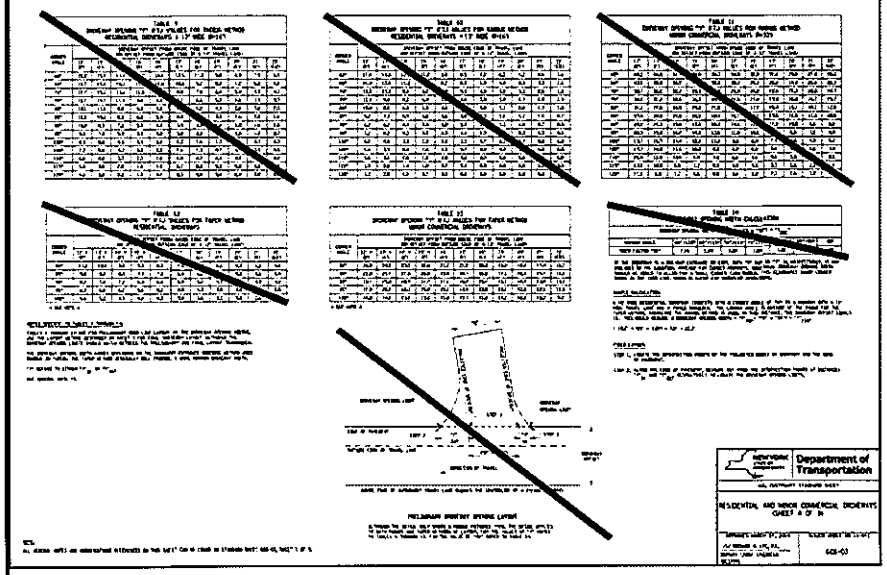
Town/City: CLARENCE
County: ERIE
State: NEW YORK

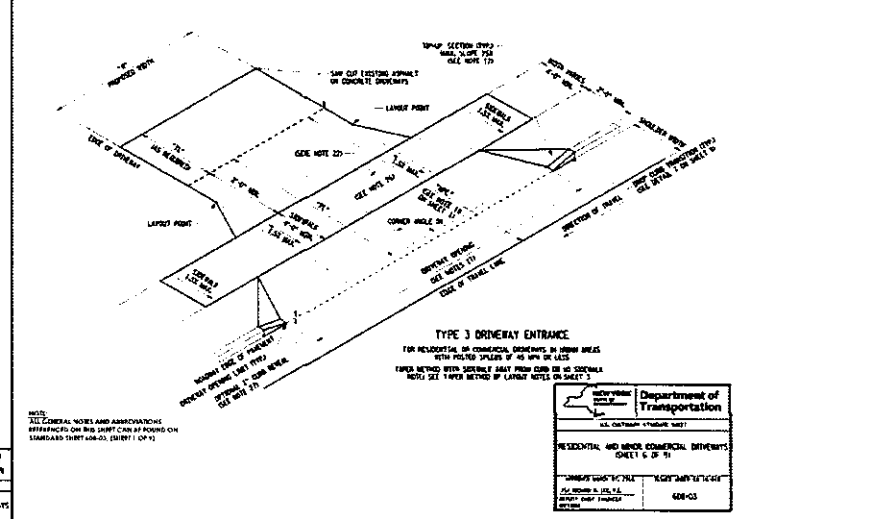
Project No.	20213204.0001
Drawing No.	C 206
Sheet No.	14
Scale	N.T.S.
Date	SEPTEMBER 2021

NOT FOR CONSTRUCTION









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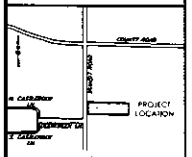

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DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES

Principal in Charge: Irina Sudak, PE
Project Manager: David Cox, PE
Designed by: James Rennemann

Revisions

No.	Date	By	Description
10	01/20/22	MRC	PER TOWN COMMENTS COMMENTS
9	01/04/22	MRC	PER TOWN COMMENT
8	09/24/22	MRC	PER STREET COMMENTS
7	10/21/22	MRC	FULL ACCESS DRIVEWAY PER MVSDOT
6	12/08/22	MRC	PER TOWN ADDITIONAL COMMENTS
5	02/06/23	MRC	PER MVSDOT TRANSMITTAL
4	02/14/23	MRC	PER L.A. COMMENTS APPROVAL
3	03/30/23	MRC	PER TOWN COMMENT
2	04/05/23	MRC	PER MVSDOT COMMENT

DETAILS

RWD CLARENCE

Town/City: CLARENCE
County: ERIE
State: NEW YORK

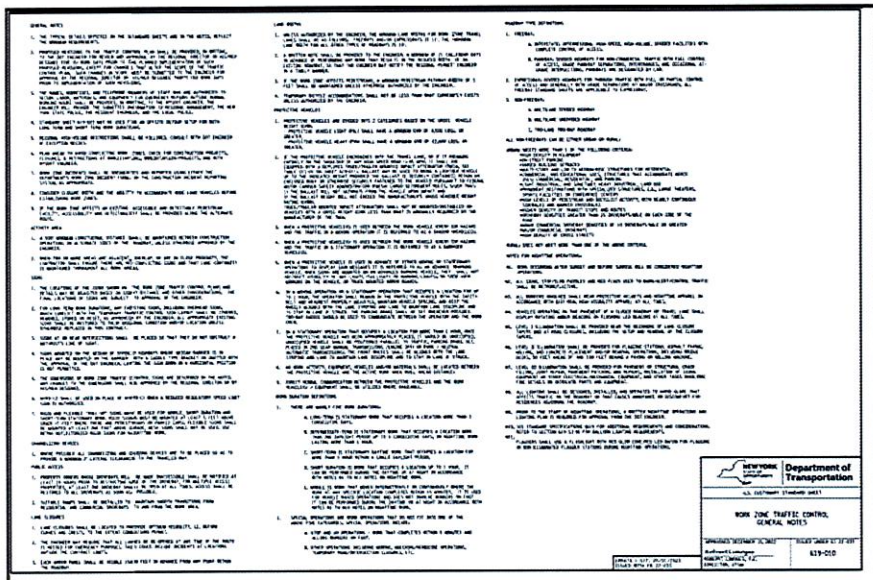
Project No: 20213204.0001

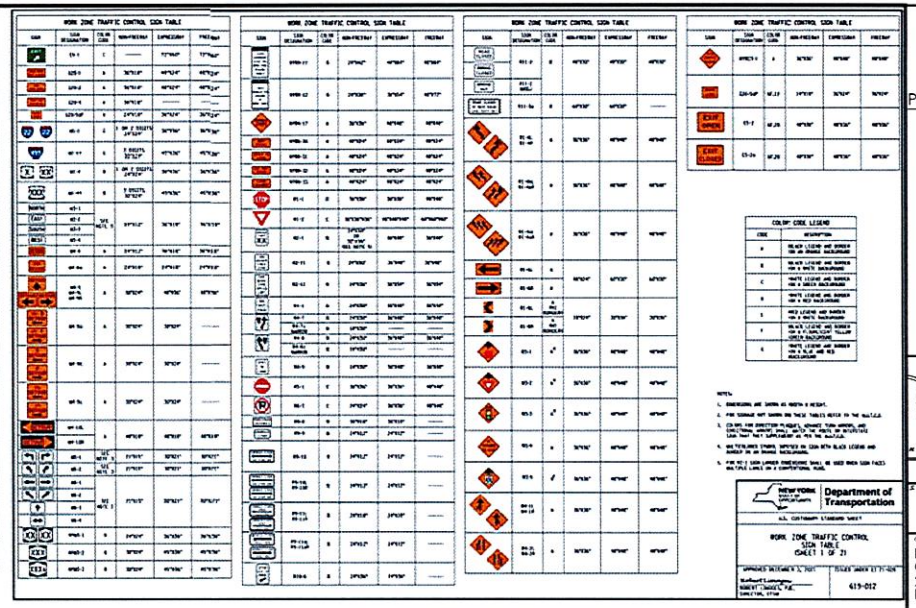
Drawing No: C 207
Sheet No: 15

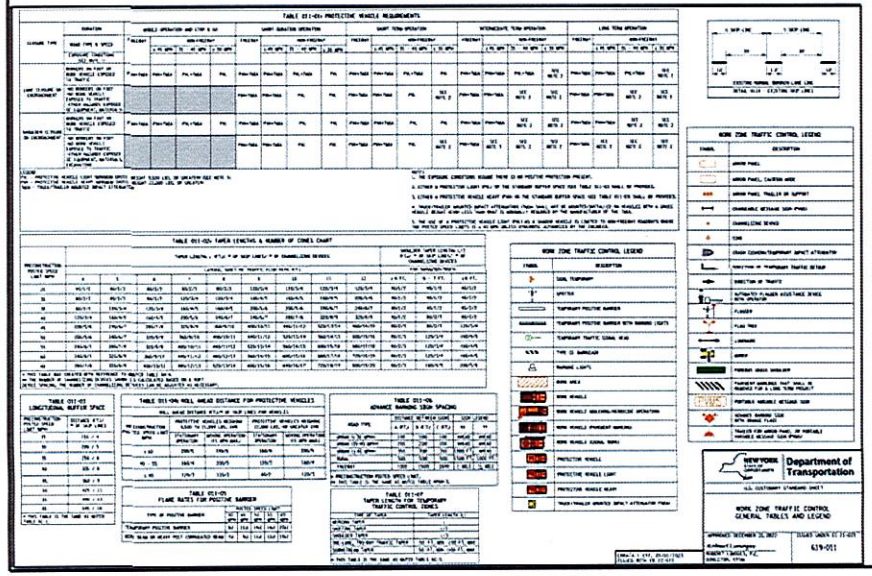
Scale: N.T.S.

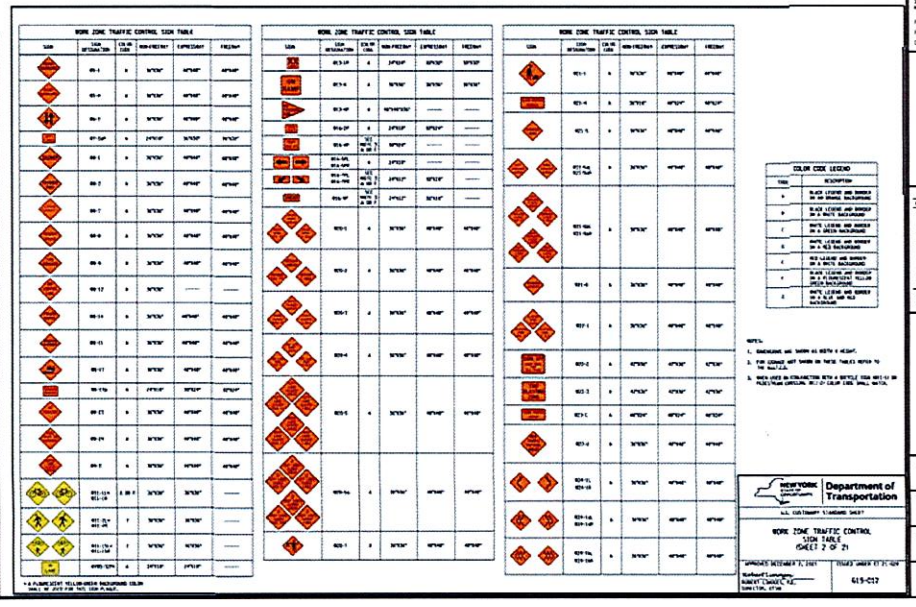
Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION









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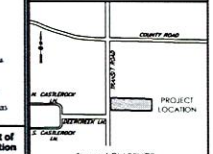

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Principal-in-Charge: Jess Sudol, PE
Project Manager: David Cox, PE
Designed by: James Kitzenthaler

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2	02/08/22	ABG	PER NYSDOT COMMENT
1	12/20/21	ABG	ISSUED FOR REVIEW

DETAILS

RWD CLARENCE

Town/City: CLARENCE
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State: NEW YORK

Project No: 20213204.0001

Drawing No: C 208
Sheet No: 16

Scale: N.T.S.

Date: SEPTEMBER 2021

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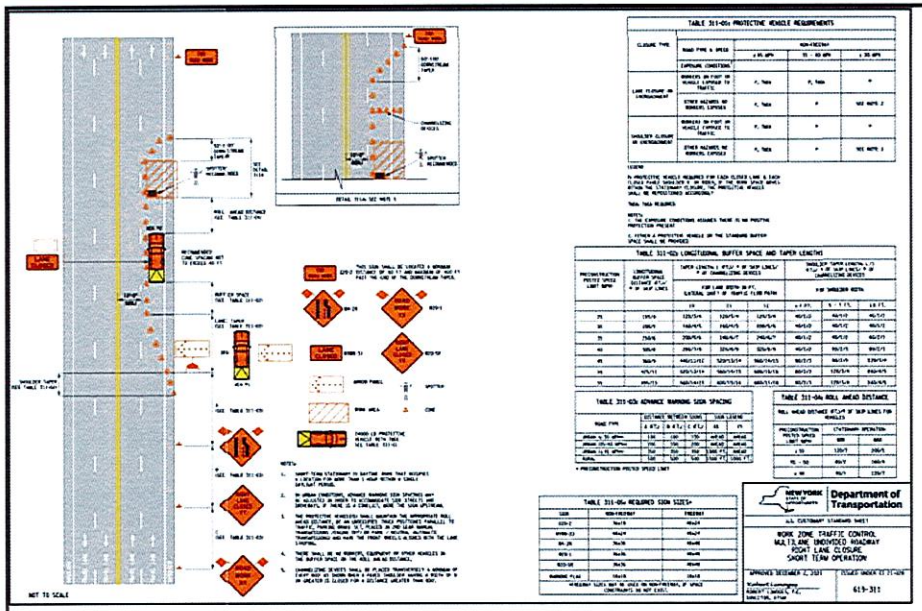
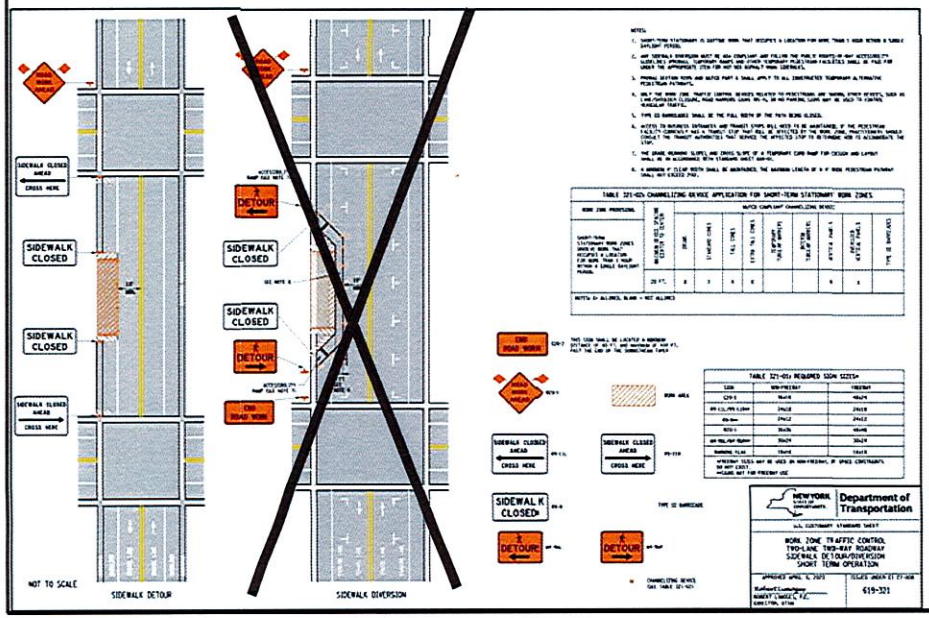
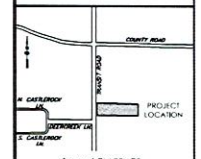




PASSERO ASSOCIATES
engineering architecture



Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
242 West Main Street Suite 100 (585) 325-1000
Rochester, New York 14614 Fax (585) 325-1441

Principal-in-Charge: Jess Sudol, PE
Project Manager: David Cox, PE
Designed by: James Ritzenthaler

Revisions

No.	Date	By	Description
10	03/30/22	ABG	PER TOWN ENGINEER COMMENTS
3	01/24/22	ABG	PER TOWN COMMENT
2	04/14/22	ABG	PER NYSDOT COMMENTS
4	10/21/22	ABG	FALL ACCESS DRIVEWAY PER NYSDOT
5	11/08/22	ABG	PER TOWN ENGINEER COMMENTS
6	02/08/23	ABG	PER NYSDOT COMMENT
7	03/14/23	ABG	PER L.A. COMMITTEE APPROVAL
8	03/30/23	ABG	PER TOWN COMMENT
9	03/08/23	ABG	PER NYSDOT COMMENT

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DETAILS

RWD CLARENCE

Town/City: CLARENCE
County: ERIE State: NEW YORK

Project No: 20213204.0001

Drawing No: C 209
Sheet No: 17

Scale: N.T.S.

Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO	

ADS
Advanced Drainage Systems, Inc.

ADS SiteAssist™ FOR STORMTECH INSTALLATION INSTRUCTIONS (NOT SURLAW)

ROYAL CAR WASH

CLARENCE, NY, USA

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 414 PE DESIGNATION 55.
4. CHAMBER PLANS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALL CHAMBER LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F1787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER, 2) MAXIMUM PERMANENT (75 YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED LIVE AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MINIMIZE THE WIDTH OF CHAMBER RS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LEGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 9".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, AT THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/IN. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418, AND IS TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C). CHAMBERS SHALL BE PRODUCED FROM REPLICATING DIE(S) OF YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER. THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL VALIDATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTOR WILL BE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD. THE MINIMUM REQUIRED BY ASTM F2418 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75 YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A LOADER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONE SHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM 9" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (305 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #57.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PREVENT ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF TELESTORM CATCH IT™ INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT

1	STORMTECH MC-3500 CHAMBERS
2	STORMTECH MC-3500 END CAPS
3	STONE BELOW (MIN)
4	STONE ABOVE (MIN)
5	STONE BETWEEN CHAMBERS (MIN)
6	PERIMETER STONE INCLUDED
7	EXCAVATION BEYOND PERIMETER STONE INCLUDED
8	COVER STONE INCLUDED
9	MAX STONE NOT INCLUDED
10	SYSTEM AREA
11	SYSTEM PERIMETER

PROPOSED ELEVATIONS

6,640	MODIFIED ASTM/AASHTO #57 STONE TYPE OF INSTALLATION
	PROVIDE BY STORMTECH (MIN)
	PROVIDE BY CONTRACTOR (MIN)
	PROVIDE BY CONTRACTOR (MIN)
	PROVIDE BY CONTRACTOR (MIN)
	PROVIDE BY CONTRACTOR (MIN)
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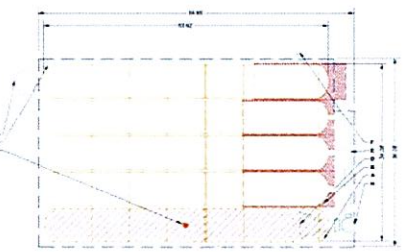
	PROVIDE BY CONTRACTOR (MIN)
	PROVIDE BY CONTRACTOR (MIN)
	PROVIDE BY CONTRACTOR (MIN)
	PROVIDE BY CONTRACTOR (MIN)

PART TYPE	ITEM DESCRIPTION	DESCRIPTION	INVERT	MAX FLOW
		PLACE AT BOTTOM OF CHAMBER END CAP. PARTS MUST BE IN PLACE PRIOR TO BACKFILLING.		
		CONNECTIONS AND INSULATION PER MANUFACTURER'S RECOMMENDATIONS.		
		CAP CUTTING END CAP AS NEEDED TO ACCOMMODATE PIPE.		
		INSTALL PER MANUFACTURER'S RECOMMENDATIONS.		
		INSTALL FLOW DIV. AT ALL ELEVATIONS.		
		CAP OFF PIPE WHERE NECESSARY.		
		CONNECTION.		
		CONNECTION.		
		SEE DESIGN BY ENGINEER.		
		INVERT OF PIPE.		
		SEE DETAIL.		



ISOLATOR ROW PLUS (WE DETAIL)

PLACE MINIMUM 17" OF ASTM/AASHTO #57 STONE BETWEEN CHAMBERS AND ISOLATOR ROW PLUS FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS.

REQUIRED

NOTES

1. MINIMUM 17" (425 mm) OF ASTM/AASHTO #57 STONE BETWEEN CHAMBERS AND ISOLATOR ROW PLUS FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS.
2. PLACE MINIMUM 17" OF ASTM/AASHTO #57 STONE BETWEEN CHAMBERS AND ISOLATOR ROW PLUS FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS.
3. THE SITE DESIGN ENGINEER SELECT REVIEW ELEVATIONS AND IF NECESSARY, ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
4. THE CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

ROYAL CAR WASH — CLARENCE, NY — CHECKED BY — DRAWN BY — DATE — PROJECT # — DESCRIPTION

StormTech® Chamber System — 888-892-2694 | www.stormtech.com

ADS — 800-821-6710 | 330-833-3731 | 800-821-6710 | 330-833-3731

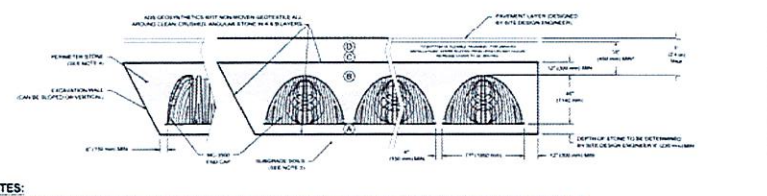
SHEET 2 OF 6

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER D STARTS FROM THE TOP OF THE C LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE D LAYER	ANY SOIL/ROCK MATERIALS NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS
C	INITIAL FILL: FILL MATERIAL FOR LAYER C STARTS FROM THE TOP OF THE EMBEDMENT STONE (IN LAYER B) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE C LAYER	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MUST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER	AASHTO M145: A-1, A-2-4, A-3 OR AASHTO M43: 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, & 10	MEDIUM COMPACTION AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (IN LAYER A) TO THE "C" LAYER ABOVE	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43: 3, 4	NO COMPACTION REQUIRED
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43: 3, 4	PLACE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE **

PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR M43 STONE WOULD STATE "COLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 12" (300 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES (SEE B COMPONENT) SHALL BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER C IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER D UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER C OR D AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

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2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MINIMIZE THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LEGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 9".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, AT THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/IN. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418, AND IS TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C). CHAMBERS SHALL BE PRODUCED FROM REPLICATING DIE(S) OF YELLOW COLORS.

ROYAL CAR WASH — CLARENCE, NY — CHECKED BY — DRAWN BY — DATE — PROJECT # — DESCRIPTION

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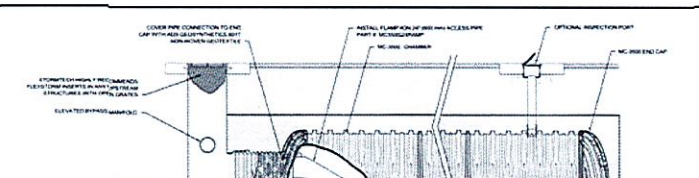
SHEET 3 OF 6



MC-3500 ISOLATOR ROW PLUS DETAIL

(NTS)

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1 REMOVE COVER(S) ON INSPECTION PORTS
  - A.2 REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3 USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4 LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5 IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3
- B. ALL ISOLATOR PLUS ROWS
  - B.1 REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2 USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MARKINGS ON POLES OR CAMERA MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3 IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3

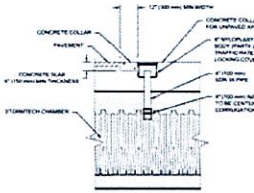
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETTING PROCESS
- A. A 4" (100 mm) OR LARGER CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (+/- 15°) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETTING UNTIL RADIATED WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS, RECORD OBSERVATIONS AND ACTIONS

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY

4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)

NTS

ROYAL CAR WASH — CLARENCE, NY — CHECKED BY — DRAWN BY — DATE — PROJECT # — DESCRIPTION

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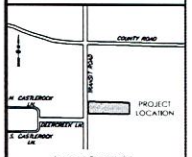
ADS — 800-821-6710 | 330-833-3731 | 800-821-6710 | 330-833-3731

SHEET 4 OF 6

PA
PASSERO ASSOCIATES
engineering architecture



Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
242 West Main Street Suite 100 (585) 325-1650
Rochester, New York 14614 Fax (585) 325-1691
Principal-in-Charge Jess Sudal, PE
Project Manager David Cox, PE
Designed by James Kitzenthaler

STATE OF NEW YORK — JESS SUDAL — PROFESSIONAL ENGINEER

Revisions

No.	Date	By	Description
10	10/20/22	ABC	PER TOWN ENGINEER COMMENTS
2	01/24/22	ABC	PER TOWN COMMENT
3	04/21/22	ABC	PER NYSDOT COMMENTS
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DETAILS

RWD CLARENCE

Town/City CLARENCE
County ERIE State NEW YORK

Project No 20213204.0001

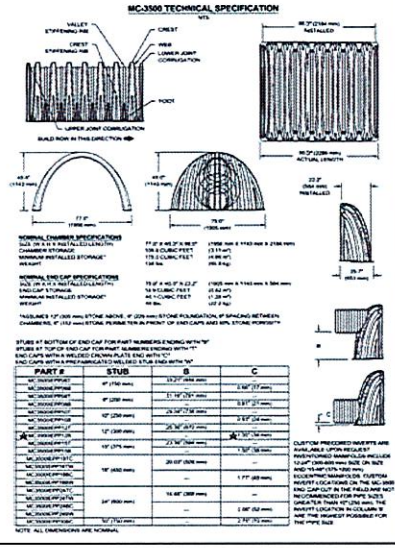
Drawing No C 210 Sheet No 18

Scale N.T.S.

Date SEPTEMBER 2021

NOT FOR CONSTRUCTION

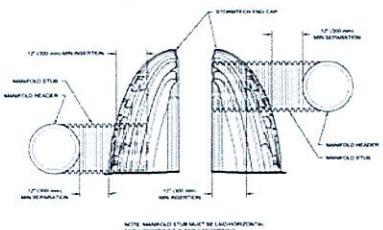
MC-3500 TECHNICAL SPECIFICATION



PART #	STUB	B	C
MC-3500IPT6BT	6" (150 mm)	13.27" (337 mm)	—
MC-3500IPT8BB	8" (200 mm)	11.18" (284 mm)	1.66" (42 mm)
MC-3500IPT8BT			0.91" (23 mm)
MC-3500IPT10BB	10" (250 mm)	9.24" (235 mm)	2.63" (67 mm)
MC-3500IPT10BT			1.87" (48 mm)
MC-3500IPT12BB	12" (300 mm)	7.30" (185 mm)	3.50" (89 mm)
MC-3500IPT12BT			2.74" (70 mm)
MC-3500IPT15BB	15" (375 mm)	4.34" (110 mm)	—
MC-3500IPT15BT			1.50" (38 mm)
MC-3500IPT18TC	18" (450 mm)	26.00" (660 mm)	—
MC-3500IPW18TW		—	1.77" (45 mm)
MC-3500IPW18W			
MC-3500IPW24TW	24" (600 mm)	14.48" (368 mm)	—
MC-3500IPW24W		—	1.98" (50 mm)
MC-3500IPW30W			
MC-3500IPW36W	36" (900 mm)	—	2.76" (70 mm)

NOTE: MANIFOLD STUB MUST BE LACH HORIZONTAL FOR A PROPER FIT IN END CAP OPENING

MC-SERIES END CAP INSERTION DETAIL



NOTE: MANIFOLD STUB MUST BE LACH HORIZONTAL FOR A PROPER FIT IN END CAP OPENING

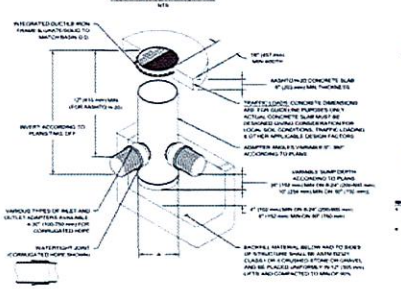
ROYAL CAR WASH

StormTech® Chamber System

ADS

SHEET 5 OF 6

NYLOPLAST DRAIN BASIN



NOTES

1. A-242 (250-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE PIPES & MANDOR (DUPL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION, WWW.NYLOPLASTUSA.COM
6. TO ORDER CALL: 800-821-6710

A	PART #	GRATE/SOLID COVER OPTIONS		
9" (229 mm)	2809AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

INSERTA TEE DETAIL

CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (h)
SC-310	8" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	4" (100 mm)
MC-4500	12" (300 mm)	6" (150 mm)
MC-7200	12" (300 mm)	8" (200 mm)

INSERTA TEE FITTINGS AVAILABLE FOR SDR-26, SDR-35, SDR-35 IPS GASKETED & SOLVENT WELD. N-12, HP STORM C-900 OR DUCTILE IRON

NOTES:
- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIAL & CONTACT STORMTECH FOR MORE INFORMATION.
- CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED 40 MM ALL INVERTS ARE POSSIBLE

ROYAL CAR WASH

Hyloplast®

ADS

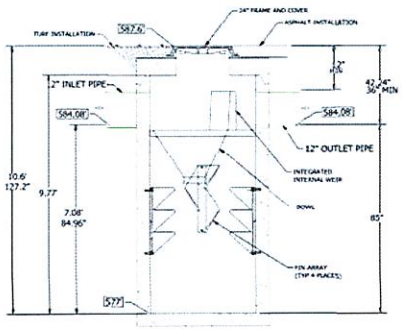
SHEET 6 OF 6

PRODUCT SPECIFICATIONS

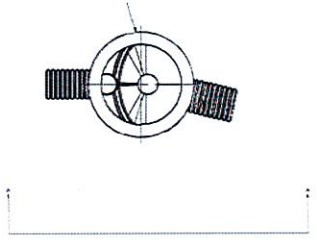
- THE STORMWATER TREATMENT UNIT SHALL BE AN INLINE UNIT CAPABLE OF CONVEYING 100% OF THE DESIGN PEAK FLOW. IF PEAK FLOW RATES EXCEED MAXIMUM HYDRAULIC RATE THE UNIT SHALL BE INSTALLED OFFLINE.
- THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF THE SUSPENDED SOLIDS ON AN ANNUAL PONDERATE REMOVAL BASIS. EAR REMOVAL SHALL BE BASED ON FULL SCALE THIRD PARTY TESTING USING ON 1 CUMEDIA GRADATION OR EQUIVALENT AND 100 mg/L INFLUENT CONCENTRATION. SAID FULL SCALE TESTING SHALL HAVE INCLUDED SEDIMENT CAPTURE BASED ON ACTUAL TOTAL MASS COLLECTED BY THE STORMWATER TREATMENT UNIT.
- OR
- THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 50% OF TSS USING A MEDIA MIX WITH ASTM 50 MICRON AND 250 MICRON INFLUENT CONCENTRATION.
- OR
- THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 50% OF TSS PER CURRENT NJDEP/NJCAT HDS PROTOCOL.

BARRACUDA S4	
UNIT ID	S4
PEAK FLOW RATE CFS	1.52
TREATMENT FLOW RATE CFS	1.06

*TREATMENT FLOW RATE PER OK-110



SECTION VIEW A-A



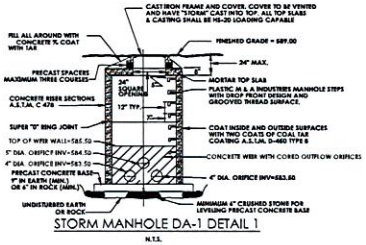
SITE SPECIFIC PLAN VIEW

RWD CLARENCE CLARENCE, NY

DATE | DRAWN | CHECKED | PROJECT #

SCALE: AS NOTED

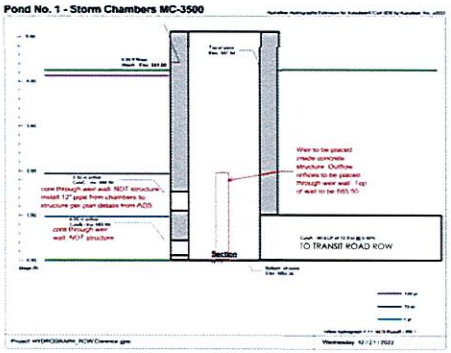
SHEET 1 OF 1



STORM MANHOLE DA-1 DETAIL 1

N.T.S.

Pond No. 1 - Storm Chambers MC-3500



STORM MANHOLE DA-1 DETAIL 2

N.T.S.

PASSERO ASSOCIATES
engineering architecture

Town of CLARENCE
LOCATION SKETCH

Client
DANIELE FAMILY COMPANIES
2851 MONROE AVENUE
ROCHESTER, NY 14618

PASSERO ASSOCIATES
242 West Main Street Suite 100, Rochester, New York 14614
(585) 325-1000
Fax: (585) 325-1441
Principal-in-Charge: Jess Sudell, PE
Project Manager: David Cox, PE
Designed by: James Kitzenthaler

STATE OF NEW YORK · JESS M. SUDELL · 073-[illegible] · LICENSED PROFESSIONAL ENGINEER

Revisions

No.	Date	By	Description
10	01/20/23	ABG	PER TOWN ENGINEER COMMENTS
9	01/04/23	ABG	PER TOWN COMMENT
8	04/14/22	ABG	PER NYSDOT COMMENTS
7	10/07/22	ABG	FULL ACCESS DRIVEWAY PER NYSDOT
6	11/03/22	ABG	PER TOWN ENGINEER COMMENTS
5	02/08/22	ABG	PER NYSDOT COMMENT
4	02/14/22	ABG	PER LA. COMMITTEE APPROVAL
3	01/20/22	ABG	PER TOWN COMMENT
2	10/08/21	ABG	PER NYSDOT COMMENT

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DETAILS

RWD CLARENCE

Town/City: CLARENCE
County: ERIE
State: NEW YORK

Project No: 20213204.0001

Drawing No: C 211
Sheet No: 19

Scale: N.T.S.

Date: SEPTEMBER 2021

NOT FOR CONSTRUCTION