LOCATION MAP





PLAN JOINTLY PREPARED BY:

DELAWARE SOIL AND WATER CONSERVATION DISTRICT 557A SUNBURY RD DELAWARE, OHIO 43015 PHONE: (740)368—1921

DELAWARE COUNTY ENGINEER'S OFFICE 50 CHANNING STREET DELAWARE, OHIO 43015 PHONE: (740) 833–2400

	CONSTRUCTION & MATERIA	AL SPECIFICATION	IS	SUPPLEN SPECIFIC
	OHIO DEPARTMENT OF TRANSPORTATION	USDA NATURAL	RESOURCES CONSERVATION SERVICE	
	DELAWARE COUNTY ENGINEER	CONSTRUCTION		
452	Non-reinforced Portland Cement Concrete Pavement	326	Clearing & Snagging	
601	Slope and Channel Protection	468	Rock Lined Channel	
611	Pipe Culverts, Sewers, Drains, and Drainage Structures	582	Open Channel Construction	SPEC
707	Steel, Aluminum, and Plastic Pipe	606	Subsurface Drain	PROVIS
614	Maintenance of Traffic	608	Surface Drain	Tile Con
659	Seeding & Mulching			

STATE OF OHIO, DELAWARE COUNTY DELAWARE COUNTY ENGINEER

LANETTA LANE DRAINAGE IMPROVEMENT PROJECT

DELAWARE COUNTY GENOA TOWNSHIP

	ESTIMATED QUANTITIES		
	Section 1		
ltom	Section 1	Quantity	Linit
NPCS 226	Clearing & Spagging	N/A	
NDCS E92		1227	LUIVIP
ODOT 601 00	Pock Channel Protection Type Cwithout Eilter	10	Lineal Foot
ODOT 601.09	Sooding & Mulching, Class 1, no anchoring	1200	Causes Varde
0001 659	Seeding & Mulching, Class 1, no anchoring	4200	Square raros
	Section 2		
Item	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	N/A	
NRCS 582	Open Channel Restoration	410	Lineal Feet
NRCS 606	10" Pipe, non-perforated (ODOT 707.33)	75	Lineal Feet
NRCS 606	8" Pipe, non-perofrated (ODOT 707.33)	425	Lineal Feet
NRCS 606	10" Animal Guard	1	Each
NRCS 606	Tile Inspection Well	1	Each
NRCS 608	Surface Drain - Swale	400	Lineal Feet
ODOT 601.09	Rock Lined Channel	165	Lineal Feet
ODOT 611	24" Drive Culvert (707.33), Type B Installation, Gravel Drive	40	Lineal Feet
ODOT 659	Seeding & Mulching, Class 1, no anchoring	3200	Square Yards
	Section 3N		
Item	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	N/A	
NRCS 606	8" Pine non-perforated (ODOT 707 33)	1600	Lineal Feet
NRCS 606	Tile Inspection Well	12	Each
NRCS 608	Surface Drain Swale	1600	Lineal Feet
ODOT 452	Non-Reinforced Concrete Payement Driveway Renair	10	Each
0001452	(including removal and disposal of existing pavement section)	10	
ODOT 611	12" Drive Culvert (707.33), Type B installation, Concrete Drive	200	Lineal Feet
ODOT 611	12" Drive Culvert (707.33). Type B Installation. Gravel Drive	40	Lineal Feet
ODOT 611	8" Pipe (707.33). Type B Installation. Concrete Drive	100	Lineal Feet
ODOT 611	8" Pipe (707.33). Type B Installation. Gravel Drive	20	Lineal Feet
ODOT 614	Maintenance of Traffic	N/A	LUMP
ODOT 659	Seeding & Mulching, Class 1, no anchoring	5.800	Square Yards
Special	Potholing Utilities	N/A	LUMP
Special	Utility Relocation	N/A	LUMP
1		=	
	Contingency Lateral Connections		
	4" Lateral Connection with Surface Outlet	250	Lineal Feet
	6" Lateral Connection	50	Lineal Feet
	8" Lateral Connection	20	Lineal Feet
	Section 3S		
ltem	Description	Quantity	Unit
NRCS 326	Clearing & Snagging	N/A	LUMP
NRCS 606	8" Pipe, non-perforated (ODOT 707.33)	1627	Lineal Feet
NRCS 606	Tile Inspection Well	10	Each
NRCS 608	Surface Drain Swale	1627	Lineal Feet
ODOT 452	Non-Reinforced Concrete Pavement Driveway Repair (including removal and disposal of existing pavement section)	4	Each
ODOT 611	12" Drive Culvert (707.33), Type B installation, Concrete Drive	80	Lineal Feet
ODOT 611	12" Drive Culvert (707.33), Type B Installation. Asphalt Drive	60	Lineal Feet
ODOT 611	12" Drive Culvert (707.33). Type B Installation. Gravel Drive	60	Lineal Feet
ODOT 611	8" Pipe (707.33). Type B Installation. Concrete Drive	40	Lineal Feet
ODOT 611	8" Pipe (707.33), Type B Installation, Asphalt Drive	30	Lineal Feet
ODOT 611	8" Pipe (707.33), Type B Installation, Gravel Drive	30	Lineal Feet
ODOT 614	Maintenance of Traffic	N/A	LUMP
ODOT 659	Seeding & Mulching, Class 1, no anchoring	5,800	Square Yards
Snecial	Potholing Itilities	N/A	
Special	Litility Relocation		
	Contingency Lateral Connections		
	4" Lateral Connection with Surface Outlet	250	Lineal Feet
	6" Lateral Connection	50	Lineal Feet
	8" Lateral Connection	20	Lineal Feet
		*	d

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TITLE SHEET DETAILS & CULVERTS SECTION 1 SECTION 3N SECTION 3S CROSS-SEC CROSS-SEC EASEMENTS	DEX OF SHEETS NOTES	1 2 3 4 5 6 7 8 9 10	DESIGNED DJB 07/21 CHECKED DRAWN DJB 07/21 REVIEWED
This project will include installation of subsurface drain tile, and the takin This project/improvemen Sections 6131 and 6137	the improvement of surface drainage drain, the destruction of existing s g of temporary and permanent ease t is being done pursuant to Ohio R	ie, the subsurface ements. evised Code	
2019 SPECI The standard Department of T supplemental spe shall govern this govern. Where Natural Resource supplement the	FICATIONS specifications of the Sta ransportation, including ch ecifications listed in the p improvement. English un noted, specifications of th s Conservation Service sh ODOT specifications.	te of Ohio, anges and roposal nits shall e USDA all	CONSTRUCTION PROJECT NO.
BENCHMARK DE BM# 1 The station is 200+00, Elevation: 928.24' Northing: 180450.0000' Easting: 1856692.6290 (Coordinates are NAD15	SCRIPTION Top of Yellow Fire Hydrant 983 Ohio State Plane North)		RAILROAD INVOLVEMENT
EMENTAL FICATIONS PECIAL VISIONS Connection	LANETTA LANE DRAINAGE IMPROVEMENT PRO DELAWARE COUNTY E DELAWARE COUNTY, APPROVED	DJECT ENGINEER OH R R SIONER	LANETTA LANE
	APPROVED DATE COUNTY COMMISS	SIONER	1 10

DETAILS & NOTES

GENERAL CONSTRUCTION NOTES

1. The construction right-of-way for this project will be 75' right and left of the project centerline unless otherwise marked by the Construction Inspector. Certain items of work may require an extended right-of-way in order to properly complete them. This work should not be done without prior consent of the construction inspector., and any consent given will be specific to a particular item of work. Additional right-of-way for construction access may be identified and approved by the construction inspector as deemed necessary for the completion of the project. All areas disturbed by the construction activities which are outside of the critical path including but not limited to area used for staging, stockpiling of materials, and access will be cleaned and returned to its pre-construction state at the sole responsibility of the contractor as per the requirements of ODOT CMS 104.04.

2. The contractor will be responsible for ensuring that all relevant OSHA regulations are met prior to beginning any construction activities.

3. Temporary easements for construction access may be identified and approved by the construction inspector as deemed necessary for the completion of the project. Any access easement not connected to the work limits of the project will be returned to its pre-construction state at the sole responsibility of the contractor.

4. Potholing of utilities will be required prior to commencement of any other item of work unless specifically authorized by the Construction Inspector. Payment for this item will be as a lump sum.

5. All ground disturbed by excavation shall be returned to its pre-construction vegetative state and grade unless otherwise directed by the plans and/or the construction inspector.

6. Spoil from excavation of the surface drain (NRCS #608) and open channel (NRCS #582) construction shall be exported from the site at the expense of the contractor. Payment for spoil and debris disposal will be considered as included in payment for NRCS #608 and NRCS #582 items. The contractor is free to negotiate with landowners to dispose of spoil and debris materials on-site provided that any disposal site is outside of the work limits for this project. Delaware County will not be considered party to any such agreements made between the contractor and landowners.

7. Unless otherwise noted on these plans or instructed by the construction inspector, debris from clearing and snagging within the typical cross sections is to be disposed of off-site by the contractor unless permission to place brush and logs adjacent to the construction right-of-way is granted by the landowners. Payment for hauling and disposal shall be considered part of payment for NRCS #326-Clearing and Snagging. For the purposes of on-site disposal, a log will be defined as "a section of a tree bole (the main trunk of the tree) at least 8 feet long, not containing a fork, sufficiently straight and sound enough to yield at least an 8-foot board. Anything not considered a log by the above definition will be considered brush.

8. Pipe quantities listed on the Plan and Profile views represent cumulative quantities for both perforated and non-perforated pipe. The quantity table shall be the reference for the specific amounts of perforated and non-perforated pipe. The applicable specification and the instructions of the construction inspector will govern the placement of each type of pipe. All lineal quantities of pipe shall be considered to be inclusive of all necessary elbows, couplers, and other fittings unless otherwise stated by these plans and/or the bid documents.

9. All lateral tile cut by the installation of the new tile shall be reconnected to the new tile at the point where they are cut or collected with a submain (size to be determined) and outletted into the new tile at the next downstream breather as specificed by the construction inspector and per the requirements of NRCS #606-Subsurface Drain. Any connections made to any tile included on the Drainage Maintenance Program after completion of the project will require the approval of the Drainage Maintenance Department.

10. Seeding and Mulching will be done as per the specifications of ODOT #659 with the following stipulations/exceptions:

- -Seed mixture to be used will be Class-Type #1.
- -Soil testing will not be required.
- -Liming will not be required. Compost will not be required.
- -The use of straw mulch will be acceptable for the entire project.
- -Watering will not be required. -Mulch anchoring will not be required except where specified.

11. Linear alignments of all surface and subsurface features may be modified to fit site specific conditions at the discretion of the construction inspector.

12. The contractor shall contact the Delaware County Engineer's Office a minimum of seven (7) working days prior to beginning any work within the road right-of-way. It will be the sole responsibility of the contractor to secure any permits necessary for work within the road right-of-way.

13. All trees to be saved will be marked prior to the start of construction by the construction inspector. Markings will be done in the manner requested by the contractor. Unless specifically designated as "Save" or "Do not disturb" in the plans or by the construction inspector, remove all trees and stumps within the cross section under the lump sum bid for NRCS Item #326-Clearing and Snagging. Trees marked to be saved shall be protected with protective cover such as filter fabric or other suitable material. Replacement of any tree damaged or removed that was otherwise marked to be saved will be the responsibility of the contractor.

14. Scale bars as shown on the Plan Views shall be considered to be accurate for surveyed features including, but not necessarily limited to, project centerline, tile lines, and benchmark locations. Property lines, drive centerlines, building footprints, and road centerlines as shown on the Plan Views were derived from other sources and are shown for general reference only and should not be used to scale the location of any constructed feature.

15. Excavation will/may be required to verify design elevations including, but not limited to, existing subsurface drain inverts. These excavations will be considered incidental to the overall construction of the project per ODOT CMS 105.02.

Temporary & Permanent Easements

- 1. The width of the temporary easement for construction shall be seventy-five feet as measured from the top of bank of the open channel, seventy-five feet as measured from the top of bank of the surface drain, and seventy-five feet as measured from the centerline of the subsurface drain where no surface drain cross-section is specified.
- 2. A permanent easement will be established for maintenance and cleaning of the constructed improvement per ORC 6137.12. The width of the permanent easement will be based on the type of improvement constructed. For Open Channel and Surface Drain Swales, the permanent easement will be twenty-five feet from the top of bank on both sides of the channel, measured at right angles thereto. For closed ditches (subsurface drain installation only), the permanent easement shall be a maximum of eighty feet centered on the centerline of the improvement. The permanent easement for access shall be a maximum width of thirty feet and length as necessary to connect to the improvement as shown on these drawings.

SUBSURFACE DRAIN (NRCS #606)









Open Channel (NRCS #582)









TYPICAL SUBSURFACE DRAIN LATERAL CONNECTION DETAILS (NRCS #606) NOT TO SCALE

inspector.





CONSTRUCTION NOTE

Materials

Conduit - corrugated HDPE plastic smooth lined pipe (double-wall) conforming to ODOT CMS 707.33.
Granular bedding and backfill - coarse aggregate meeting AASHTO/ODOT #57 or #67 size or crushed limestone aggregate meeting ODOT CMS Item 304 or 411.

Excavation

The existing culvert shall be removed in its entirety, and included in this item for payment. The trench for the proposed culvert shall be excavated to a minimum width of 2 feet greater than the outside span of the culvert. The trench shall be excavated a minimum of 6 inches below the proposed elevation of the bottom of the culvert.

Bedding

Bedding for the culvert shall be 6 inches of granular material, and shall extend to the limits of the trench.

Laying Culvert

Except where otherwise directed by the Engineer for special conditions, the culvert shall be laid starting at the outlet end. For multiple barrel culverts, the minimum distance between the outside of adjacent barrels shall be 24"

Joining Culvert Sections

The method of joining culvert sections shall be such that the ends are fully entered and the inner surfaces are reasonably flush and even. Bands or gasket joints shall be used according to manufacturer's recommendations. Conduit shall be inspected before any backfill is placed. Any sections found to be out of alignment, unduly settled, or damaged shall be taken up and relaid or replaced.

Backfilling

Granular backfill shall be placed in lifts not to exceed 8 inches up the sides of the culvert. Backfill shall be carefully compacted under the haunches of the pipe using mechanical compactors, spud bars or any other means approved by the Engineer.

When using #57 or #67 granular backfill, the material shall be compacted to approximately 85% of the original thickness. When using stabilized crushed aggregate, water shall be added as necessary to maintain optimum moisture content. Compaction shall be done by mechanical tampers, jumping-jacks, hand tools, or any other means approved by the Engineer, and shall be considered sufficient when 98-100 percent of AASHTO T 99 (Standard Proctor) has been achieved or the Engineer approves the backfill.



CULVERT DESIGN TABLE							
STA Entrance	STA Exit	Entrance Inv.	Exit Inv.	Size	Qty.	Material	Length
			SECT	ION 2			
106+94	107+19	898.60'	898.40'	18"	1	ODOT 707.33	25'
			SECTI	ON 3N			
201+45	201+65	921.29'	921.04'	12"	1	ODOT 707.33	20'
202+10	202+30	920.48'	920.23'	12"	1	ODOT 707.33	20'
203+40	203+60	918.85'	918.60'	12"	1	ODOT 707.33	20'
204+90	205+10	916.98'	916.73'	12"	1	ODOT 707.33	20'
206+80	207+00	914.60'	914.35'	12"	1	ODOT 707.33	20'
209+00	209+20	911.90'	911.78'	12"	1	ODOT 707.33	20'
209+40	209+60	911.66'	911.54'	12"	1	ODOT 707.33	20'
211+35	211+55	910.49'	910.37'	12"	1	ODOT 707.33	20'
213+05	213+25	909.47'	909.35'	12"	1	ODOT 707.33	20'
214+55	214+75	908.57'	908.45'	12"	1	ODOT 707.33	20'
216+95	217+15	907.13'	907.01'	12"	1	ODOT 707.33	20'
			SECTI	ON 3S			
300+60	300+80	922.35'	922.10'	12"	1	ODOT 707.33	20'
302+25	302+45	920.29'	920.04'	12"	1	ODOT 707.33	20'
304+90	305+10	916.98'	916.73'	12"	1	ODOT 707.33	20'
306+65	306+85	914.79'	914.53'	12"	1	ODOT 707.33	20'
308+50	308+70	912.48'	912.23'	12"	1	ODOT 707.33	20'
310+40	310+60	911.06'	910.94'	12"	1	ODOT 707.33	20'
311+05	311+25	910.67'	910.55'	12"	1	ODOT 707.33	20'
312+35	312+55	909.89'	909.77'	12"	1	ODOT 707.33	20'
313+90	314+10	908.96'	908.84'	12"	1	ODOT 707.33	20'
316+70	316+90	907.28'	907.16'	12"	1	ODOT 707.33	20'

Generalized Lanetta Lane Culvert/Road Ditch Cross-Section



LANETTA LANE DRAINAGE IMPROVEMENT PROJECT ENGINEERING DRAWINGS



SECTION 1 PLAN VIEW Clearing Limits 25' from Top of Bank Existing Edge of Trees/Brush STA 15+22 End Open Channel Restoration Rock Outlet Protection Installation (9) -25' Access Lane Clearing Existing 30" Concrete Pipe (DO NO DISTURB)

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PROFILE





	Legend
Existing Pipe	
Proposed Pipe	— _
Fence	
Road	
Driveway	
Property Line	
Benchmark	
Structure	
Pond	
Septic Systems	

LANETTA LANE DRAINAGE IMPROVEMENT PROJECT ENGINEERING DRAWINGS

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<u>Owner</u>	<u>Address</u>	Parcel Number
Village at Harvest Wind Cono Association	8139 Autumn Lake Dr	31742402008500
Harvest Wind Association	Spring Run Dr	31742409019000
James & Elizabeth Barry	8148 Rookery Way	31742401024000
Shane Melean & Janet Melean Alvarado	8124 Rookery Way	31742401023000
Noelle, Bruce, & Tamiko Arnold	8108 Rookery Way	31742401022000
Dedicated Road Right of Way		99999917000000
Michael & Stephanie Sherwood	8115 Rookery Way	31742401016000
Jack & Kimberly Moore	8127 Rookery Way	31742401015000
Medallion Group LTD	5000 Club Dr	31742201001000

Clearing & Tree Preservation

The clearing limits along NRCS #582-Open Channel shall be 25 feet from the top of the left bank as looking downstream. This area is to be cleared of brush and debris as part of NRCS #326-Clearing & Snagging. Trees to be preserved and not disturbed are shown on the Plan View and will be visibly marked by the Construction Supervisor prior to commencement of clearing and construction activity. Additionally, the contractor is encouraged to preserve any unmarked trees that are not deemed necessary to be cut in order to construct NRCS #582-Open Channel.

A 25 feet wide access lane is to be cleared at STA 27+00 and STA 15+30. All access to the open channel will be through these two created access lanes. The contractor shall be permitted to utilize the existing drainage easement outside of the existing edge of trees/brush to facilitate the export of spoil and debris off the site.

All debris created from clearing and snagging activity is to be transported from the site. Mowing, mulching, and/or grinding onsite, within the clearing limits, of small brush and trees (<6" diameter) will be permitted. Residual mulch and other material shall be uniformly spread according the direction of the Construction Supervisor.





<u>Owner</u>	<u>Address</u>	<u>Parcel Number</u>
Medallion Group LTD	5000 Club Dr	31742201001000
John & Karen Kasich	7825 Lanetta Lane	31742201020001
Kluchurosky & Mary Rohrkemper	7816 Lanetta Lane	31742201023000
Donald Dennis	7811 Lanetta Lane	31742201022002
Kevin & Ann Quinn	7807 Lanetta Lane	31742201022001
Dale & Carol List	7801 Lanetta Lane	31742201021000
Jeffrey & Megumi Bendit	7755 Lanetta Lane	31742201020007
Samantha & Craig Buehler	7719 Lanetta Lane	31742201020006
Andrew & Mary Gantzer	7683 Lanetta Lane	31742201020005
Craig & Alyson Zander	7641 Lanetta Lane	31742201020004
Craig & Cynthia Seeds	7617 Lanetta Lane	31742201020003
Michael Kovalchik	7581 Lanetta Lane	31742201020002
James & Molly O'Halloran	7553 Lanetta Lane	31742201020000
Jacob & Kayla Dixon	7511 Lanetta Lane	31742201019000
Diane & Matthew Davis	7485 Lanetta Lane	31742201018000
Scott & Kerry Prokop	7780 Lanetta Lane	31742201024000
John & Ella Leis	7750 Lanetta Lane	31742201025000
Liselotte Burdette	7710 Lanetta Lane	31742201026000
William & Ruth Chavez	7680 Lanetta Lane	31742201027000
Nancy Peebles	7636 Lanetta Lane	31742201028003
Kimberly Wiley	7626 Lanetta Lane	31742201028002
Chad & Caren Shilling	7580 Lanetta Lane	31742201028001
Stephen Jones	7514 Lanetta Lane	31742201028000
Fric & Sandra Showalter	7/80 Lanetta Lane	317/2201029000



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13	Kevin & Ann Quinn	7807 Lanetta Lane	31742201022001
14	Dale & Carol List	7801 Lanetta Lane	31742201021000
15	Jeffrey & Megumi Bendit	7755 Lanetta Lane	31742201020007
16	Samantha & Craig Buehler	7719 Lanetta Lane	31742201020006
17	Andrew & Mary Gantzer	7683 Lanetta Lane	31742201020005
18	Craig & Alyson Zander	7641 Lanetta Lane	31742201020004
19	Craig & Cynthia Seeds	7617 Lanetta Lane	31742201020003
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24	Scott & Kerry Prokop	7780 Lanetta Lane	31742201024000
25	John & Ella Leis	7750 Lanetta Lane	31742201025000
26	Liselotte Burdette	7710 Lanetta Lane	31742201026000
27	William & Ruth Chavez	7680 Lanetta Lane	31742201027000
28	Nancy Peebles	7636 Lanetta Lane	31742201028003
29	Kimberly Wiley	7626 Lanetta Lane	31742201028002
30	Chad & Caren Shilling	7580 Lanetta Lane	31742201028001
31	Stephen Jones	7514 Lanetta Lane	31742201028000
32	Eric & Sandra Showalter	7480 Lanetta Lane	31742201029000



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13	Kevin & Ann Quinn	7807 Lanetta Lane	31742201022001
14	Dale & Carol List	7801 Lanetta Lane	31742201021000
15	Jeffrey & Megumi Bendit	7755 Lanetta Lane	31742201020007
16	Samantha & Craig Buehler	7719 Lanetta Lane	31742201020006
17	Andrew & Mary Gantzer	7683 Lanetta Lane	31742201020005
18	Craig & Alyson Zander	7641 Lanetta Lane	31742201020004
19	Craig & Cynthia Seeds	7617 Lanetta Lane	31742201020003
20	Michael Kovalchik	7581 Lanetta Lane	31742201020002
21	James & Molly O'Halloran	7553 Lanetta Lane	31742201020000
22	Jacob & Kayla Dixon	7511 Lanetta Lane	31742201019000
23	Diane & Matthew Davis	7485 Lanetta Lane	31742201018000
24	Scott & Kerry Prokop	7780 Lanetta Lane	31742201024000
25	John & Ella Leis	7750 Lanetta Lane	31742201025000
26	Liselotte Burdette	7710 Lanetta Lane	31742201026000
27	William & Ruth Chavez	7680 Lanetta Lane	31742201027000
28	Nancy Peebles	7636 Lanetta Lane	31742201028003
29	Kimberly Wiley	7626 Lanetta Lane	31742201028002
30	Chad & Caren Shilling	7580 Lanetta Lane	31742201028001
31	Stephen Jones	7514 Lanetta Lane	31742201028000
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CROSS-SECTIONS



CROSS-SECTIONS



LANETTA LANE DRAINAGE IMPROVEMENT PROJECT ENGINEERING DRAWINGS







LANETTA LANE DRAINAGE IMPROVEMENT PROJECT ENGINEERING DRAWINGS

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