



EAST MOUNTAIN STORMWATER AND DRAINAGE FEASIBILITY STUDY

CITY OF SCRANTON, LACKAWANNA COUNTY, PA

OCTOBER 25, 2023

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Engineering | Planning | Infrastructure Solutions

EAST MOUNTAIN STORMWATER AND DRAINAGE

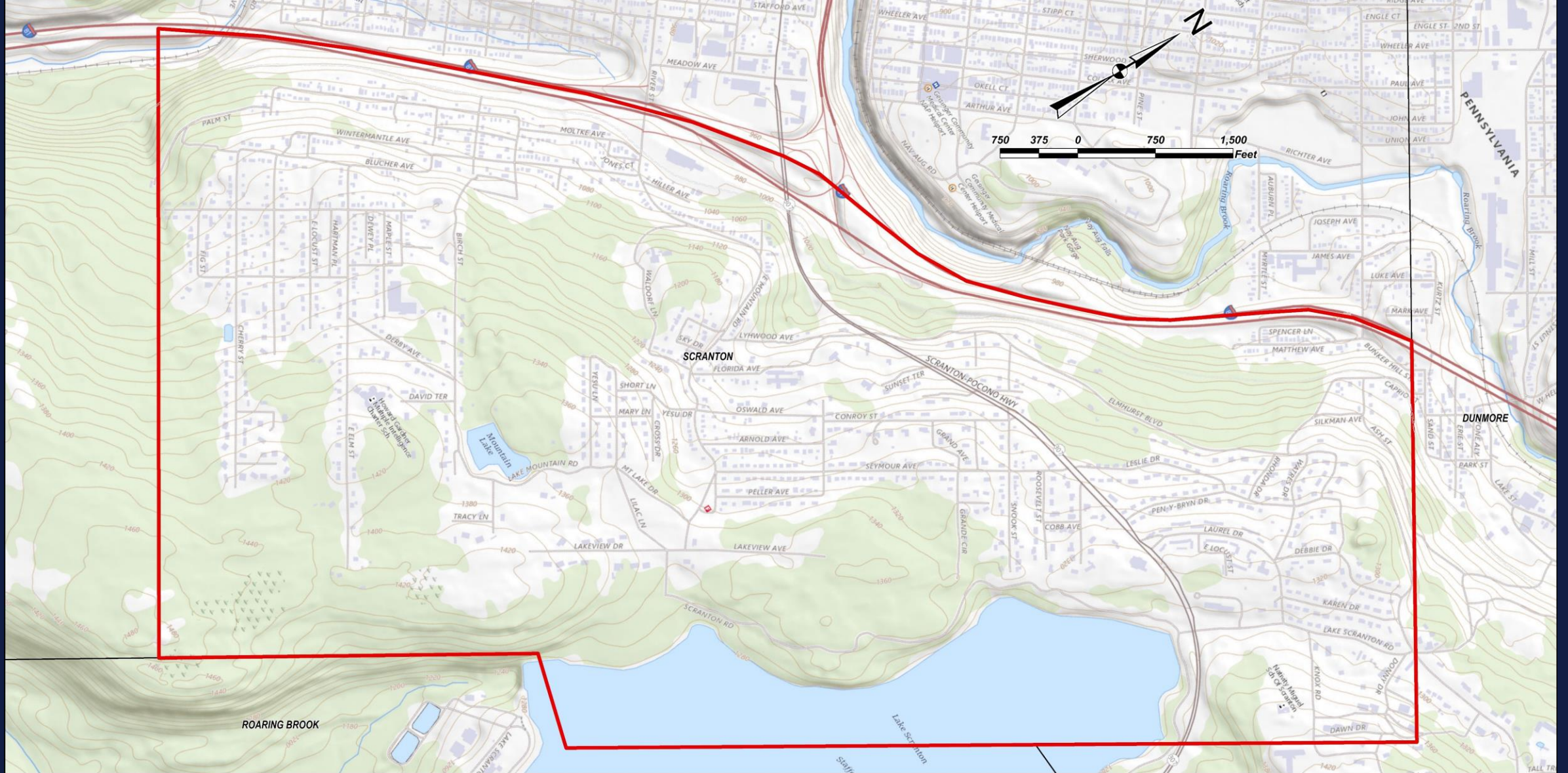
GEORGE WHITE

- Sr. Project Manager
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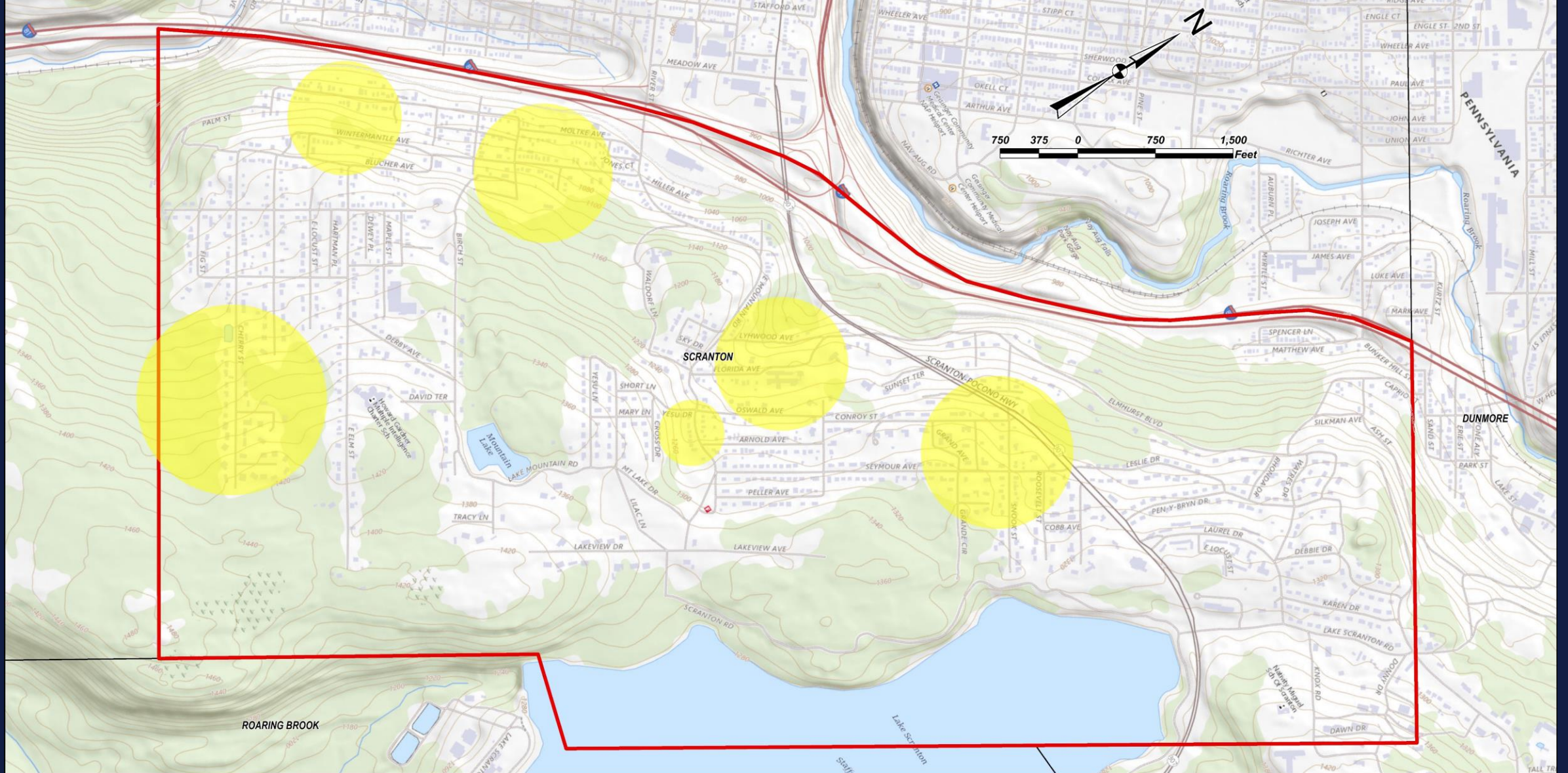




EAST MOUNTAIN STUDY AREA

CITY OF SCRANTON – LACKAWANNA COUNTY, PA





FLOODING AREAS OF CONCERN

EAST MOUNTAIN STORMWATER AND DRAINAGE STUDY



EAST MOUNTAIN STORMWATER AND DRAINAGE FEASIBILITY STUDY



HOW DID WE GET HERE?

- 1st Public Meeting – Nov. 30, 2022
- Public Comment Database
- GIS Database
- Field Evaluations
- Meetings with City
- Preliminary Concepts ~~(7)~~ (9)
- Review by City
- Preliminary Designs ~~(3)~~ (9)
- 2nd Public Meeting – Oct. 25, 2023

PUBLIC COMMENTS



**26 DRAINAGE ISSUES
SUBMITTED BY THE PUBLIC**

PUBLIC COMMENTS

EAST MOUNTAIN - SCRANTON STORMWATER COMMENTS

Record #	Date Submitted	Address	Name	Phone Number	Email Address	Most Recent Date Issue Witnessed	Type of Issue	If other, please describe	Is this a recurring issue?	Nearest Intersection	Describe flooding issue in detail
RD-01	11/27/2022 21:43	1434 E ELM ST, Scranton, PA 18503	Thomas Rubin	5709620066		10/24/2022	Street Flooding		Yes, regularly	Reifen Ave	After paving project the past summer water from the street runs into my driveway and garage because the curb was damaged and never replaced
RD-02	11/27/2022 17:07	203 MIFFLIN AVE, Scranton, PA 18503	Craig Beavers	570-988-4393		11/27/2022	Missing Storm Drain		Yes	London St and Holladay Ct	There is large ponding at Holladay and London, near St. MarysPA. There is no storm drain or catch basin nearby, and water pools into the road.
RD-03	11/19/2022 17:13	518 RIVER ST, Scranton, PA 18505	Dean Carter	215-638-3827		11/2/2022	Street Flooding		Yes, regularly	Hansen Ct	no curb, street floods property. Constant about occurring street.
RD-04	11/12/2022 18:16	123 FLORIDA AVE, Scranton, PA 18505	Jeffrey Quanta	5709622651	quanta@gmail.com	11/1/2022	Entire Street Flooding		Yes, regularly	and mile road	Water coming from the 1915 has been backing since the July 2020 I have installed 3 - 120" P pipes over the years. A 6" and a 4" on the last 3 years. Rainfall control was not addressed as they were building on wooded lands even though I had a city engineer have two sites and nothing was done. There is also several underground gas over 100 years old that are still functioning and would like to make you aware of. I don't want to have covered over by someone property owner and I would like to make their locations known for future issues. They handle a lot of water. Most of people familiar with these lines are retired or deceased. Thank you! you are retired and I can meet at any time &...
RD-05	11/26/2022 18:48	1407 E LOCUST ST, Scranton, PA 18505	Paul & Eileen Miller	570-885-1740	paulemiller14@gmail.com	7/28/2022	Other	Date is approximately.	Yes, on occasion	Freder Ave. & East Locust Street	When the ground water table is saturated, and I've got downspouts. The water runoff from the neighbors above us, and the neighbors on East Elm Street come into our yard via a running creek, including the runoff from Howard Gardner School, and above. Make it easy to our side and back yard. When we flooded our basement, inground pool, and walk down our rear yard into the street. The city has a 12 foot right of way on both sides of our property, and behind our property.
RD-06	11/26/2022 23:56	1551 E ELM ST, Scranton, PA 18505	Amanda Corbi	6466700709	amanda.corbi@comcast.net	6/2/2022	Storm Drain Clogged		Yes, on occasion	Delby and E Elm	The storm drains clog/clogged as soon as the rain becomes strong and is unable to flow down into the drains. My neighbors and I have needed to go and shovel out the drains to allow the water to flow down.
RD-07	11/21/2022 0:30	19 E MOUNTAIN RD, Scranton, PA 18505	Jeff Kissel	570432717	jgissel3@gmail.com	6/2/2022	Missing Storm Drain		Yes, regularly	19 East Mountain Rd & Walcott Ln	Storm drain needed at the house so to run off of Walcott lane. When it storms the Walcott Ln A turns into a water shoot. There are no drains at bottom of road. Water shoots across East Mountain Rd & into my yard, causing debris to start to wash away my foundationA
RD-08	11/13/2022 2:31	1774 E MOUNTAIN RD, Scranton, PA 18505	Kyle Evans	570-196-6924	kevents1774@gmail.com	11/16/2022	Other	Lack of proper storm water management causes flooding in our basement and yard. Only needs to be a moderate rain. Went over \$13,000 in damage over 3 years	Yes, regularly	East Mountain Road and Yous Drive	Water runoff from city owned Redoubt Park flows downhill through a drain pipe in the backyards of the homes on the even numbered side of the 1100 block of East Mountain Road. A drain pipe is blocked/clogged/inadequate and causes flooding to the inside of the homes on this block as well as the backyards. A This flooding occurs in only moderate rain conditions. Heavy rain is devastating. We have incurred, at minimum, \$15000 in damages from this flooding over 3 years. In September 2021 the flood conditions were so bad that we had nearly 3 feet of water in our basement. We had severe pump-outing immediately, running for hours with a final discharge capacity of around 30,000 gallons of water per hour/1500 gallons per minute) and even with seven pumps the water continued to rise in our basement until Scranton DPW arrived with an industrial pump.A
RD-09	11/21/2022 11:17	1205 MOULDER AVE, Scranton, PA 18505	Ronald Alonzi	5704959516	ralonzi12@comcast.net	8/15/2021	Other	Stormwater runs through the yard	Yes, regularly	Mothe Ave / Locust St	Every heavy or long term rain, stormwater runs through the backyard against the deck and house. A On 06/15/2018 NEPA received 7 inches of rain in a 24 hour period. A I had a rock ditch installed when the house was first purchased to pipe the water away from the yard/home. A During this storm the ditch couldn't handle it and the water jumped the ditch. We had back of the house for a extended period until it came through patio doors at each end of the house flooding the first floor and basement/damage. A Since then I have to use a pump against the rear of the home to try and pipe the water in between the houses. A Insurance did not cover any of the damages. A Do have pictures and video of the incident.
RD-10	11/15/2022 12:12	917 5th MORRIS AVE, Scranton, PA 18510	Adrian Derak	913 Morris Ave	adrian1000@gmail.com	11/30/2022	Missing Storm Drain		Yes, regularly	Morris Ave and Ash Street	A storm drain has been removed from the middle of the block and water sits in front of the driveway at 915 Morris Ave. Water drains through Mulford and has washed away curbsides tons of gravel and has left litter and debris in the yard and in front of my house. David Deslorme did a survey on street 12 about the flooding issue. The city has done nothing to improve the situation by continuously adding pavement to the middle of the road raising the middle of the road. One day have removed all of the curbs, which stops increase the issue that has been in the neighborhood numerous times I have been to City Council numerous times to no avail. I have sent numerous letters photographs to the mayor's 311 program to no avail. The city employees from DPW service stated they do not have the money to fix the problem. I'm quite lost from down the road and along the road so it's flat and drains properly down Ash Street).
RD-11	11/27/2022 14:36	1622 BIRCH ST, Scranton, PA 18505	James Petrusic	5709097093	japetrusic79@yahoo.com	11/1/2022	Other	Water coming from Howard Gardner near parking lot and running to the back of my house. I have had to put in 2 drainage pipes so far which still has not helped the issue much	Yes, regularly	Birch St and David Terrace	Water coming from Howard Gardner near parking lot and running to the back of my house. I have had to put in 2 drainage pipes so far which still has not helped the issue much. My neighbor tells me that this was not always a problem and arose during the last few years.A
RD-12	11/27/2022 14:37	17 USLEIGH DR, Scranton, PA 18505	Bob	Missavage II	missavagebob@comcast.net	6/1/2022	Other	Storm Drains can't handle torrential rain storms	Yes, on occasion	Mosses Street	My house is on the bottom/middle of Leake Drive. During torrential rain which may happen six times a year. Storm water comes down from both ends of Leake Drive from Fox 19 Park and Laurel Drive areas. These are two storm drain areas by my driveway and the other across the street. Which is like a bucket that collects everything by poor design. Both storm drains cannot handle storm water from these torrential rains. Plus, depending on the time of the year get blocked with leaves and debris. My neighbor across the street at 16 Leake Drive and I both are in town to keep these storm drains. When the torrential rains happen if my house I can get everything these storm drains while lightning as well as the Pa American Water Company storm drain in front of 15 Leake Drive. These storm drains cannot handle the storm water during A torrential rainstorms, then storm water runs down my driveway into my back yard and around the NEPA's. I've had debris when the storm water almost entered my garage. Because leaves and debris damaged the small drain at the bottom right of my driveway. I've since had to put a small overflow ditch to try and divert water going in garage. In front of 15 Leake Dr there is a Pa American Storm Drain. The poor installation of this storm drain allows most storm water to go around the drain and during torrential rain storms flow over the curb. When this happens storm water flows down Mrs. McDermott's driveway and my yard. Particularly between the Spectrum Senior Apartments and the storm water damaged the mainline covers top structure. Which Pa American Water Company claims is a Private sewer system and had to repair since it was a safety issue. There is a spring in back of 15 Leake Drive that storm water runs from onto Leake Drive during rainstorms. I am getting to old as well as back issues to be out during rainstorms and fighting to torrential rainstorms. That if this issue isn't resolved I may have to address it legally plus contact the Chesapeake Bay Commission.
RD-13	11/27/2022 14:34	1585 BEECH ST, Scranton, PA 18505	Stacy Niewert	570-880-1397	missageweb@comcast.net	11/30/2022	Other	Crumbling stormwater ditch / channel	Yes, regularly	Beech St / Winemondale Ave	This is an open concrete stormwater ditch that runs down E Elm St, turns the corner at Bueher and connects with the storm water channel on Beech St before entering a stormwater tunnel under the road. A The stormwater ditch is in considerable disrepair and is crumbling on the sides, causing the road bed to erode and narrowing the safe drivable area of the road. A This corner is already a safety hazard, especially during winter when snow and ice force can into the middle of the intersection. A The unsafe passage of the stormwater is making this issue worse. A Many can get stuck in the stormwater ditch when they slide off the road. A The open nature of the ditch means it is not possible to put a guard rail up to keep cars from falling off the road. A The crumbling nature of the storm water ditch means the concrete will be falling into the ditch. A As the ditch fills with the crumbling concrete pieces are more likely to slide off the road and into the adjoining property which is our prewired housing 60 children aged 5-6. A Managing the storm water in this location perfectly through drainage tunnels under paved road would allow for more safe traffic management as well as better storm water management.A
RD-14	11/27/2022 2:57	126 GRAND AVE, Scranton, PA 18505	Tom Taddio	5709467693	ttaddio@gmail.com	11/27/2022	Missing Storm Drain		Yes, regularly	Seymour Ave & Ballpark St	There is no stormwater drain to collect rain water as it continues down Ballpark St and enters the rear of my property and continues across my property and onto the Front Street and Ave. A After storm there is some water left in ditch and creates a breeding ground for mosquitoes. A I have a professional exterminator come throughout the summer every year to try to keep mosquitoes and roaches because of problem with stormwater.
RD-15	11/27/2022 18:12	1327 HOLLIN AVE, Scranton, PA 18505	Carl Abraham	5708812378	rolf@comcast.net	10/30/2022	Other	some street flooding... in the winter... street likes up and DPW has to salt the area	Yes, on occasion	Cherry Street	1300 block of Ballpark Ave. My house has dug out storm water system, either part of block either half) does not have a tendency to flow into the roadways. Slope of yard and dug was changed 4 years ago to more of a hill. A During heavy rains, lots of water ends of flooding down the street. A Pipe (like installed recently one block away on Front) needs help. A Think one 18" pipe would be better.
RD-16	11/24/2022 17:04	1796 E MT RD, Scranton, PA 18505	John Paul Goe	5709495051	jgoe@earthlink.net	9/1/2021	Missing Storm Drain		Yes, regularly	East Mountain Rd & Arnold Ave	During heavier rainfall, the storm drain that runs along the back property lines of houses located 1774-1800 E Mt Rd, back up and the resulting water causes property damage in the basement and foundation of these houses. We have had several thousands of dollars of damage due time these storm water runs reach my basement. I have sent photos and videos for documentation.A
RD-17	11/26/2022 0:40	101 FLORIDA AVE, Scranton, PA 18505	Richard Olechka	570-840-6391	richardolechka@gmail.com	11/30/2022	Other	water floods property from Olstead Ave which is near or above 301 Florida Ave. the wettest lot on 114 would be the lowest point so no curb so only go flowing to rear of garage and yard of 301 Florida Ave	Yes, regularly	Florida and Lyndon Ave	Water from 114 Oswald Ave. hits the back of our garage, enters rear of 301 Florida Ave., yard gets flooded, sweeps, doesn't dry out, neighbors are affected also. A I killed our 100 year old oak tree.A
RD-18	11/26/2022 4:15	12 FAIRHURST BLVD, Scranton, PA 18505	Steven Kurland	570-146-8823	stevankurland12@comcast.net	11/1/2022	Missing Storm Drain		Yes, regularly	Elmhurst Blvd and Rhonda Drive	Many of the storm drains on Leake Drive are not tied into anything. They empty on to a vacant lot via a large discharge pipe which is right next to my property on 12 Elmhurst Blvd. The pipe extends out of the lot from a neighbor behind me. This lot also belongs to me. Every time there is a heavy rain, which has been more often than in the past, the lot floods, and most of the runoff flows a section of the lot to wall. It also operates into, causes mud into the ditch in the front of my house as I cannot drain and in general is dumping everything on the lot. I've called the city's major utility and public works to no avail! I have 7 pictures showing the problem. I would like to see if the Department and it would be happy to meet and show them to you at your convenience. Thanks, Steven Kurland
RD-19	11/10/2022 19:27	1778 E MT ST, Scranton, PA 18505	Dorina Weisenschek	5709088447	dmw1122@verizon.net	5/21/2022	Other	Pipe in my yard collapsed due to water pressure from above	Yes, on occasion	East Mountain Road and Arnold Avenue	My property is one of the four homes on East Mountain Road that receives a large amount of storm water through our back yards. When it rains very hard the storm water flows back behind our houses and the pipe cannot handle the amount of water that flows down. A The pipe in my neighbor above is larger and flows into a smaller pipe in my yard which collapsed during our last big storm. A During all the big storms, the water flows like a river down through our yards and get a lot of water in the basement and all the debris runs down the yard causing damage to the basement and basement. A During our last big storm DPW dug through an industrial gas pipe and had to tie to pump the water from the back yards to the street. It no for hours. A If not for their help, I would have been a disaster. A Even with the help we received that night I did get a lot of water in my basement. A The storm in May 2022 was the worst scenario so far. I received an call from Neighbors for help after the storm.A
RD-20	11/20/2022 12:03		Karllyn Drumheller	5704311544	kadrumheller@gmail.com	11/20/2022	Other	Stormwater Runoff	Yes, regularly	East 18th on 4th	During rain events Interstate 81 experiences large amounts of stormwater runoff. Below the East Mountain area, from mile marker 285.5 to mile marker 288.3 north of the Front Street exit, in the winter months, there can be substantial amounts of ice building along the exit due to the amount of water in the area. After the August 2022 flooding event, the Department repaired the shoulder and placed rock in the washout area. This area continues to fill with additional from the stormwater runoff. A The original drainage system from the East Mountain area to Interstate 81 consisted of a series of drainage pipes that would collect the stormwater runoff and direct it into a series of water located on Interstate 81 northbound shoulder. The attached photos indicate the original extent of the stormwater to where the stormwater runs south. As a lot of these locations the runoff has moved away from the original location causing the water to pond on the shoulder. This creates a flooding concern for the Department and a traveling public with the City of Scranton looking at the drainage for the East Mountain area the water and downstream area of this drainage system need to be considered as Interstate 81 is at the outlet of the water. Some recommendations for the drainage would consist of replacing the existing pipe system where pipes have failed, sealing joints as needed, and re-establishing drainage swales and channels. As an additional area the Department has experienced runoff could be from mile marker 285.5 to 285.3 on Interstate 81 northbound A Pennsylvania is willing to meet with the City and third engineering company to review our concerns and provide our knowledge of the drainage in this area.
RD-21	11/21/2022 23:24	44 SHOOK ST, Scranton, PA 18505	Robert Erika	5705418146	rerika812@gmail.com	11/21/2022	Other	Neighbor has directed storm water runoff onto my property	Yes, regularly	Seymour and Snook	Next door neighbor has dug a channel that directs all storm water runoff off on his property onto my property, which has flooded my yard and turned it into a swamp rendering flood property essentially unusable.



PUBLIC COMMENTS



P.O. Box 504
Clarks Summit, PA 18411
570.851.2804
www.hrg-inc.com

PUBLIC COMMENTS

EAST MOUNTAIN STORMWATER AND DRAINAGE STUDY

Submitted to: City of Scranton
Lackawanna Co., PA

ATTN: Eileen Cipriani, Director
City of Scranton
340 N Washington Ave
Scranton, PA 18503

004441.0436



Submitted: May 12, 2023 (draft)

Herbert, Rowland & Grubic, Inc.
Engineering | Planning | Infrastructure Solutions

Public Comments
East Mountain Drainage Study
Scranton, PA

PUBLIC COMMENT: FLD-04

IS THIS ISSUE ADDRESSED BY THE DRAINAGE STUDY?

YES - Proposed drainage improvements on Florida Ave. would improve this drainage issue.

Date Submitted: 11/25/2022 19:56
Address: 123 FLORIDA AVE, Scranton, PA 18505
Name: santo quatra
Phone Number: 5703622631
Email Address: quattras@gmail.com
Date Witnessed: 11/1/2022
Type of Issue: Entire Street Flooding
Reoccurring Issue?: Yes, regularly
Nearest intersection: east mtn road

Describe flooding issue in detail: Water coming down the mtn has been increasing since the late 1990's. I have installed 3 - 150' ft pipes over the years. A 6" and a 4" in the last 3 years. Runoff control was not addressed as they were building on wooded lands even though I had a city engineer here for two sites and nothing was done. There is also several underground pipes over 100 years old that are still functioning and I would like to make you aware of. 2 culverts have been covered over by a previous property owner and I would like to make their locations known for future issues. They handle a lot of water. Most of people familiar with these lines are retired or deceased. Thank you.

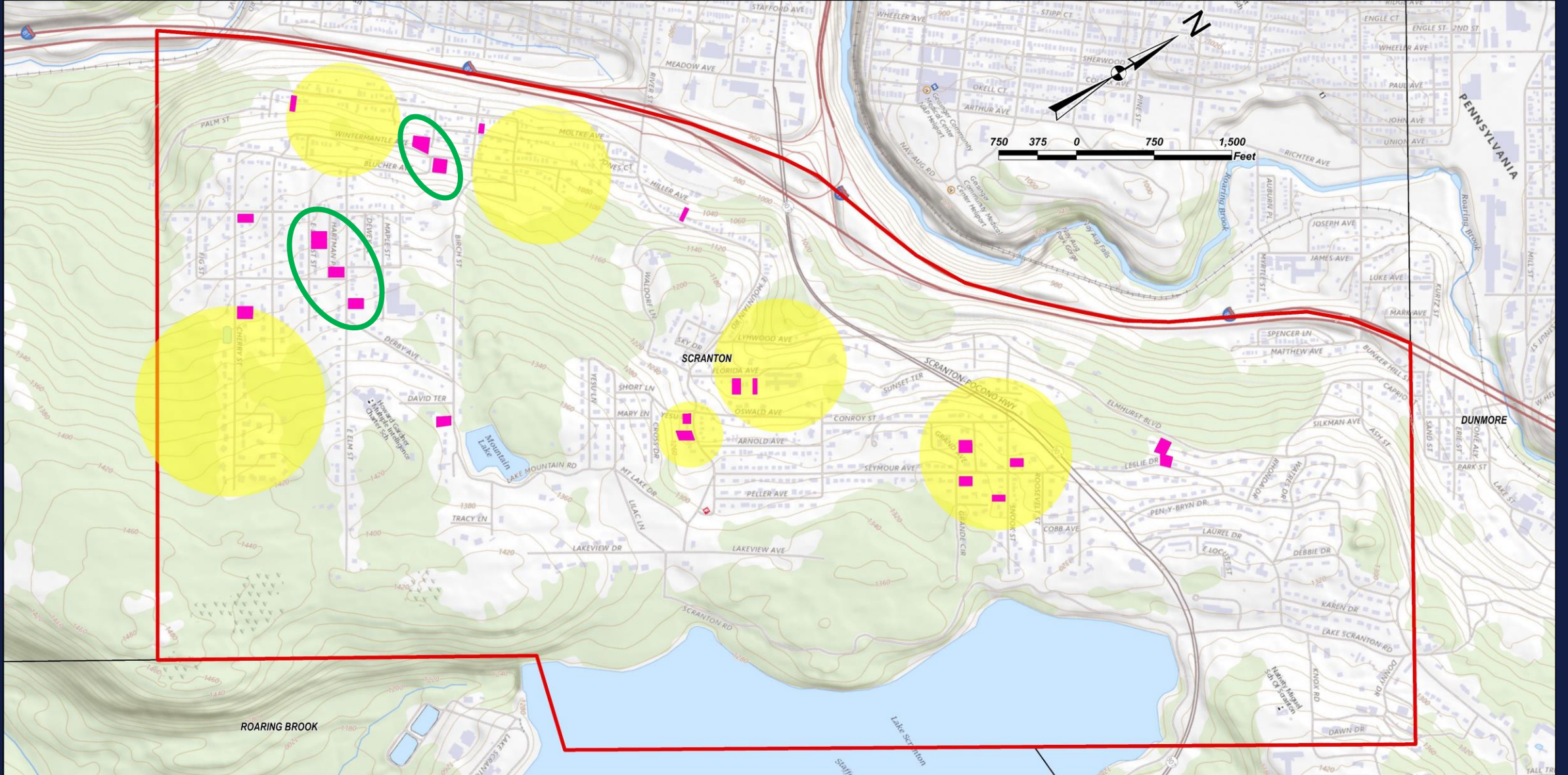
I am retired and I can meet at any time.

Submitted Photos:



(4)





PUBLIC COMMENTS

EAST MOUNTAIN STORMWATER AND DRAINAGE STUDY



GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE



✓ 2021 Aerial Photos



GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE



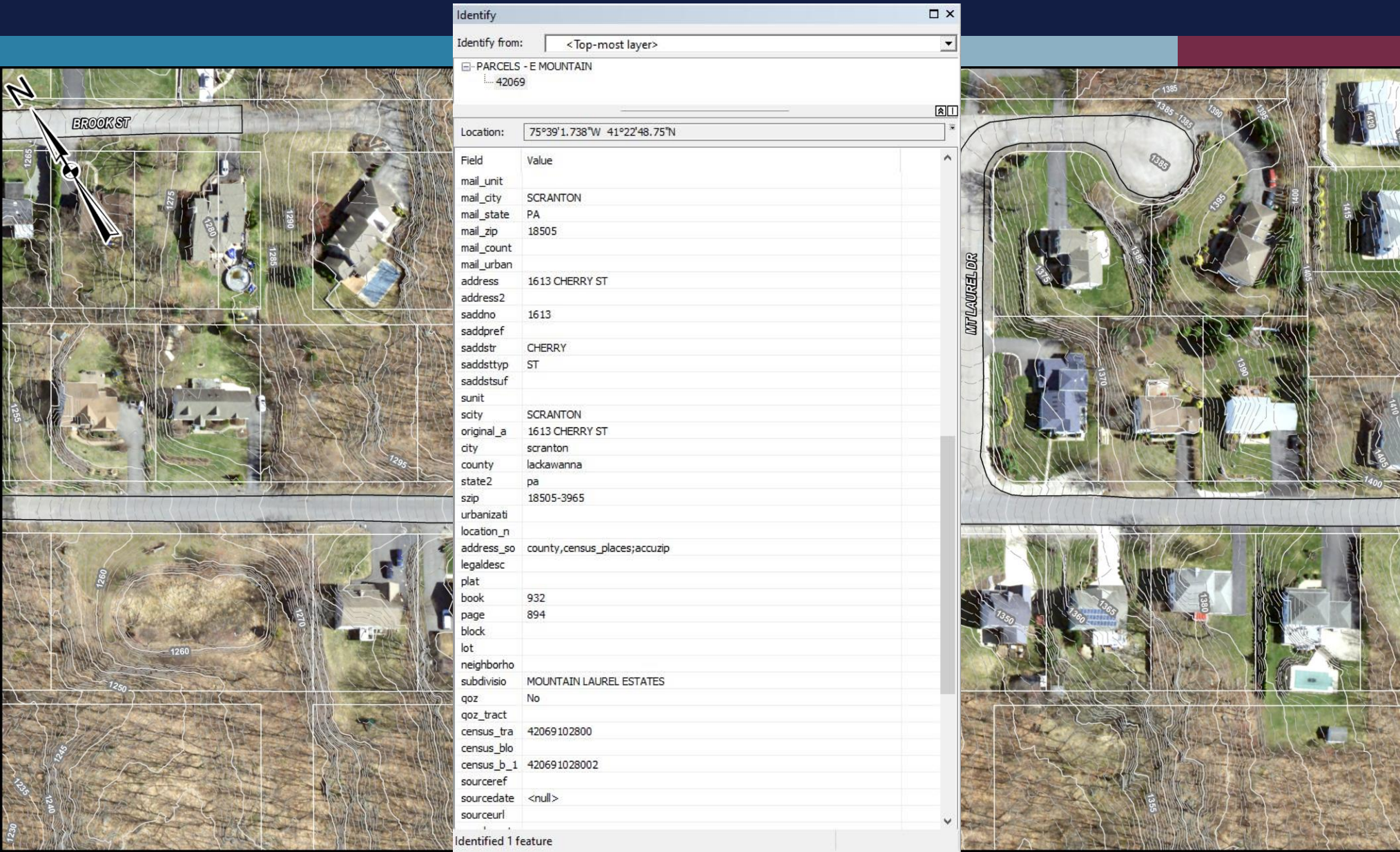
- ✓ 2021 Aerial Photos
- ✓ Street Information

GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE



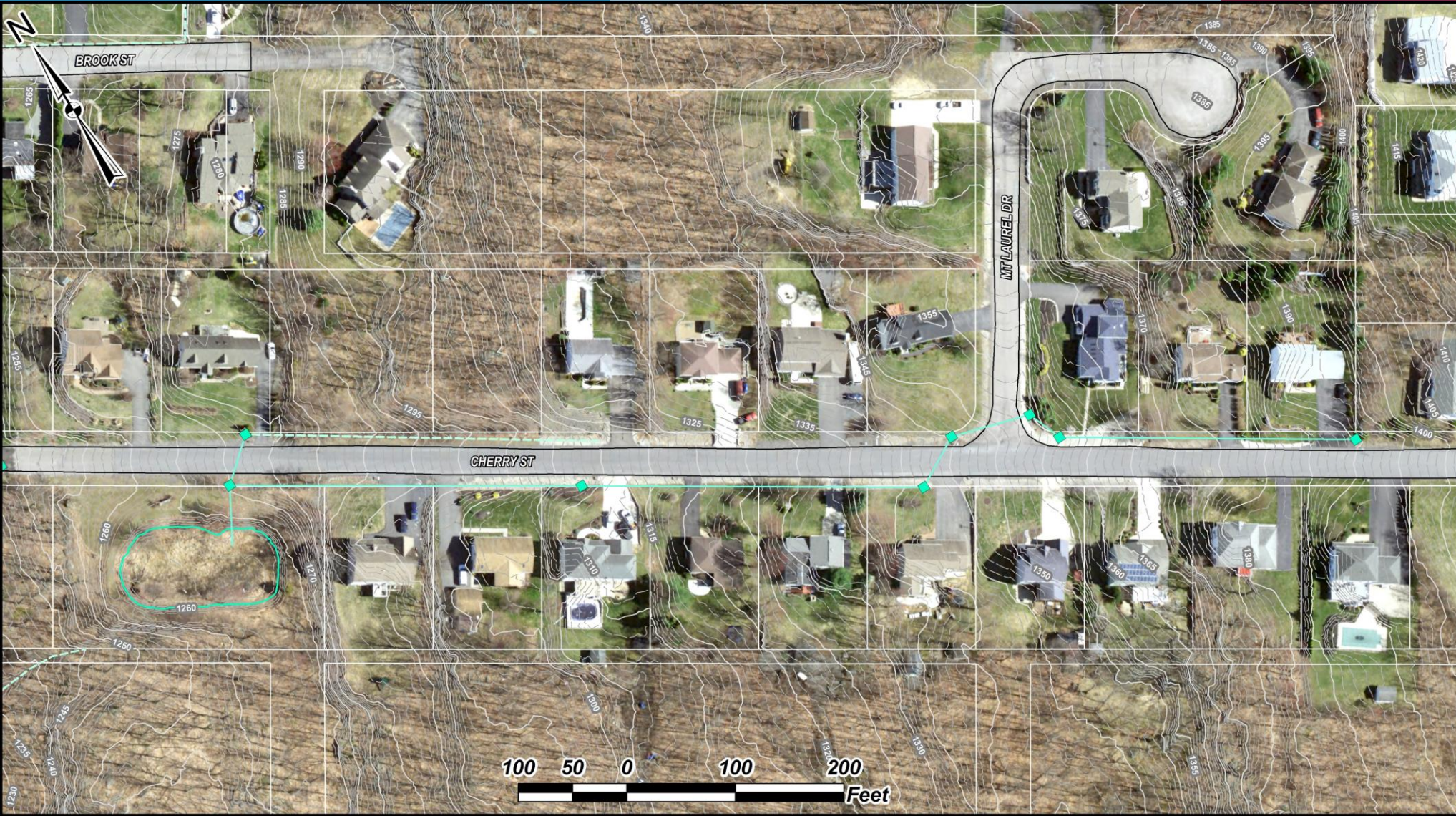
- ✓ 2021 Aerial Photos
- ✓ Street Information
- ✓ 1' Contours

GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE



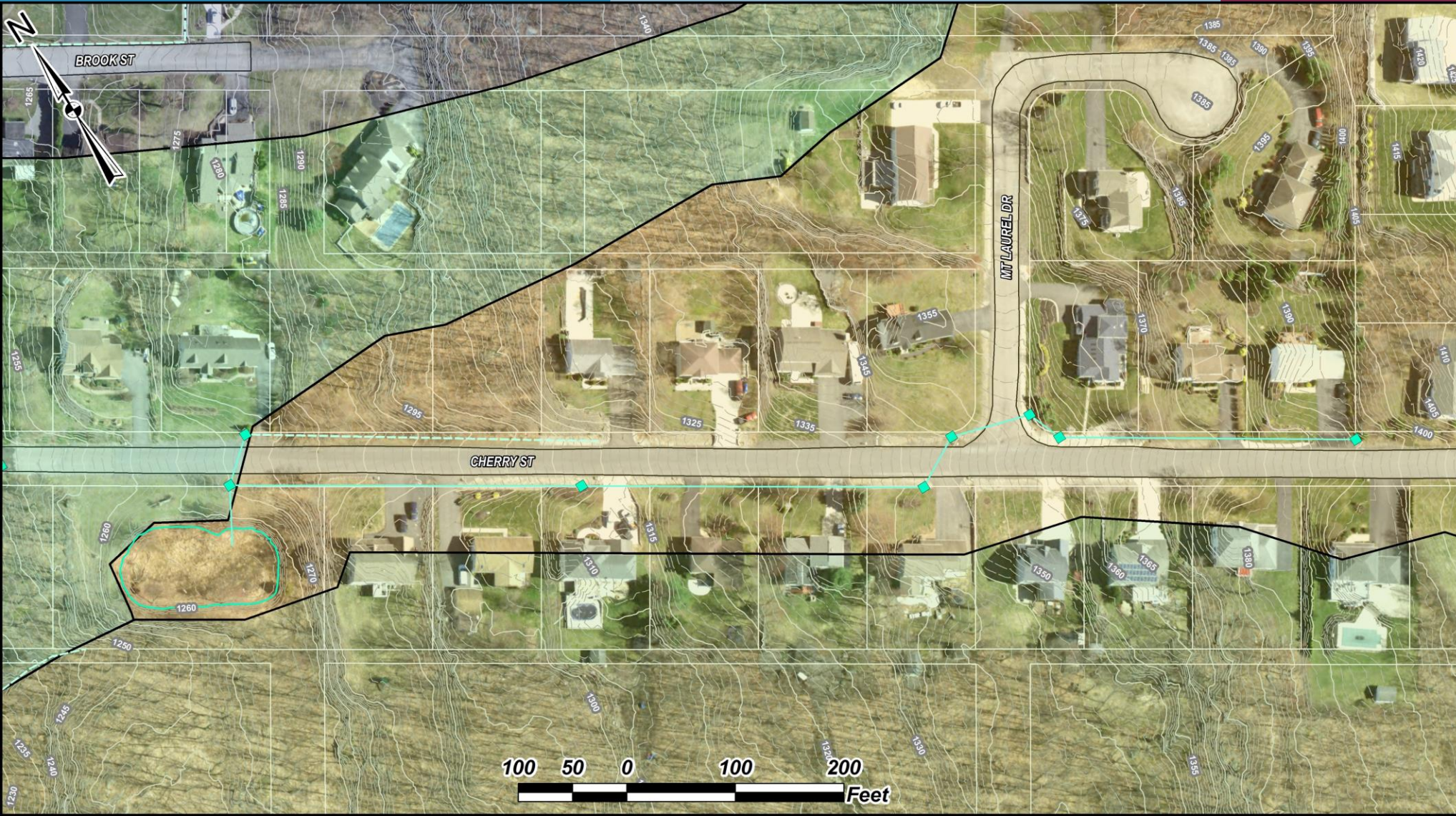
- ✓ 2021 Aerial Photos
- ✓ Street Information
- ✓ 1' Contours
- ✓ Parcel Data

GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE



- ✓ 2021 Aerial Photos
- ✓ Street Information
- ✓ 1' Contours
- ✓ Parcel Data
- ✓ Existing Drainage Systems

GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE

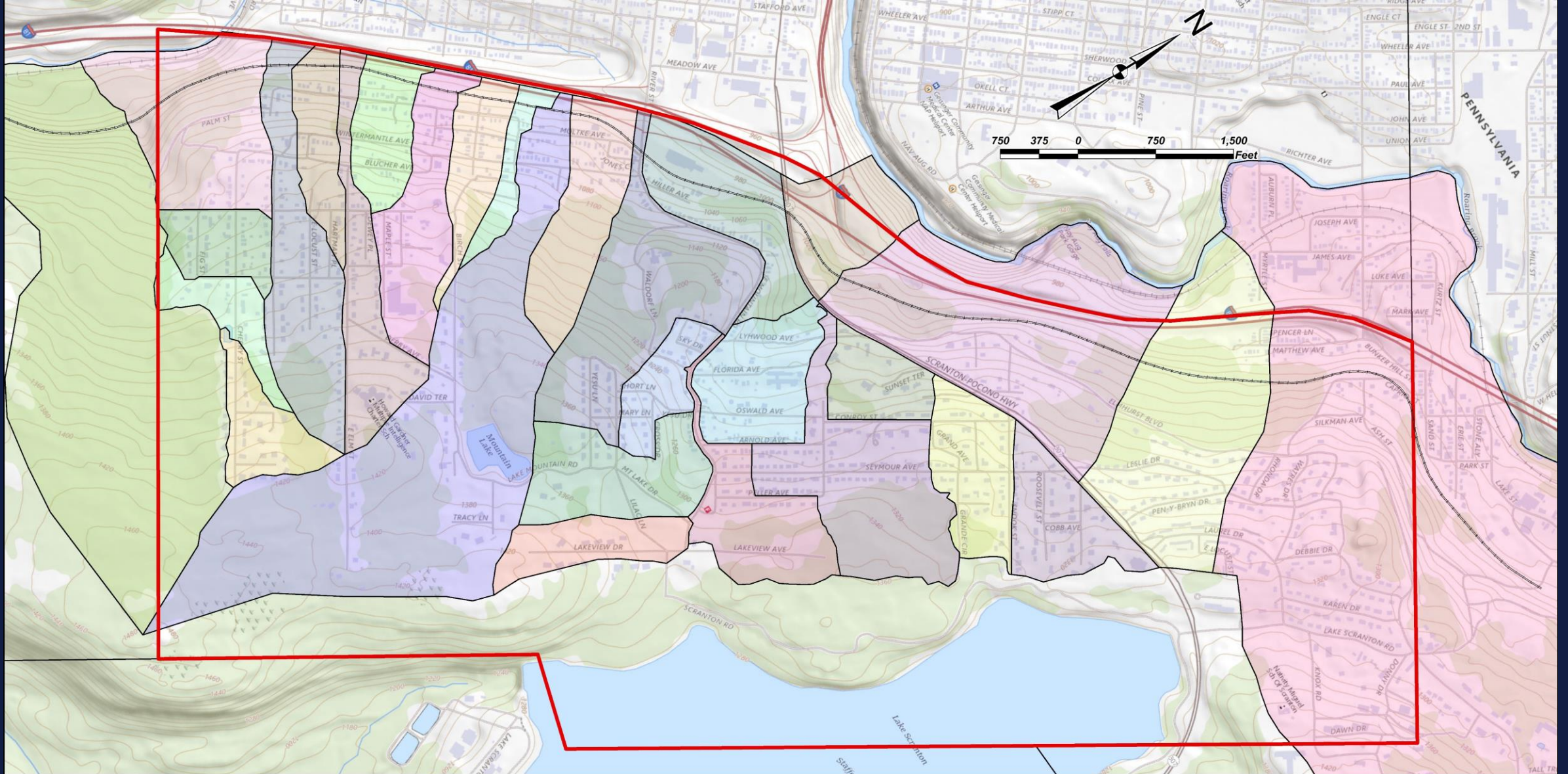


- ✓ 2021 Aerial Photos
- ✓ Street Information
- ✓ 1' Contours
- ✓ Parcel Data
- ✓ Existing Drainage Systems
- ✓ Drainage Patterns

GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE



- ✓ 2021 Aerial Photos
- ✓ Street Information
- ✓ 1' Contours
- ✓ Parcel Data
- ✓ Existing Drainage Systems
- ✓ Drainage Patterns
- ✓ GPS Data & Photos



DRAINAGE BASINS

EAST MOUNTAIN STORMWATER AND DRAINAGE STUDY





INTERSTATE 81

SCRANTON

ABANDONED RAIL GRADE



ABANDONED RAIL GRADE

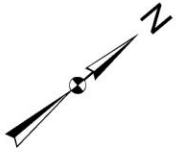


ABANDONED RAIL GRADE



**PROPOSED DRAINAGE
IMPROVEMENTS
ABANDONED RAIL GRADE
(CONCEPTUAL)**

**East Mountain Stormwater
and Drainage Study**
City of Scranton
Lackawanna Co., PA



100 50 0 100 200
Feet

MAP LEGEND:

EXISTING STORM SEWERS
- STORM SEWER STRUCTURES
- STORM SEWER PIPES
- STORMWATER SWALES

PROPOSED IMPROVEMENTS
- INLET
- MANHOLE
- HEADWALL
- STORM SEWER
- UNDER DRAIN
- DRAINAGE SWALE
- INSTALL CURB
- DRAINAGE SWALE
- FRENCH DRAIN
- STORMWATER BASIN
- PAVE APRON AROUND EX. INLET

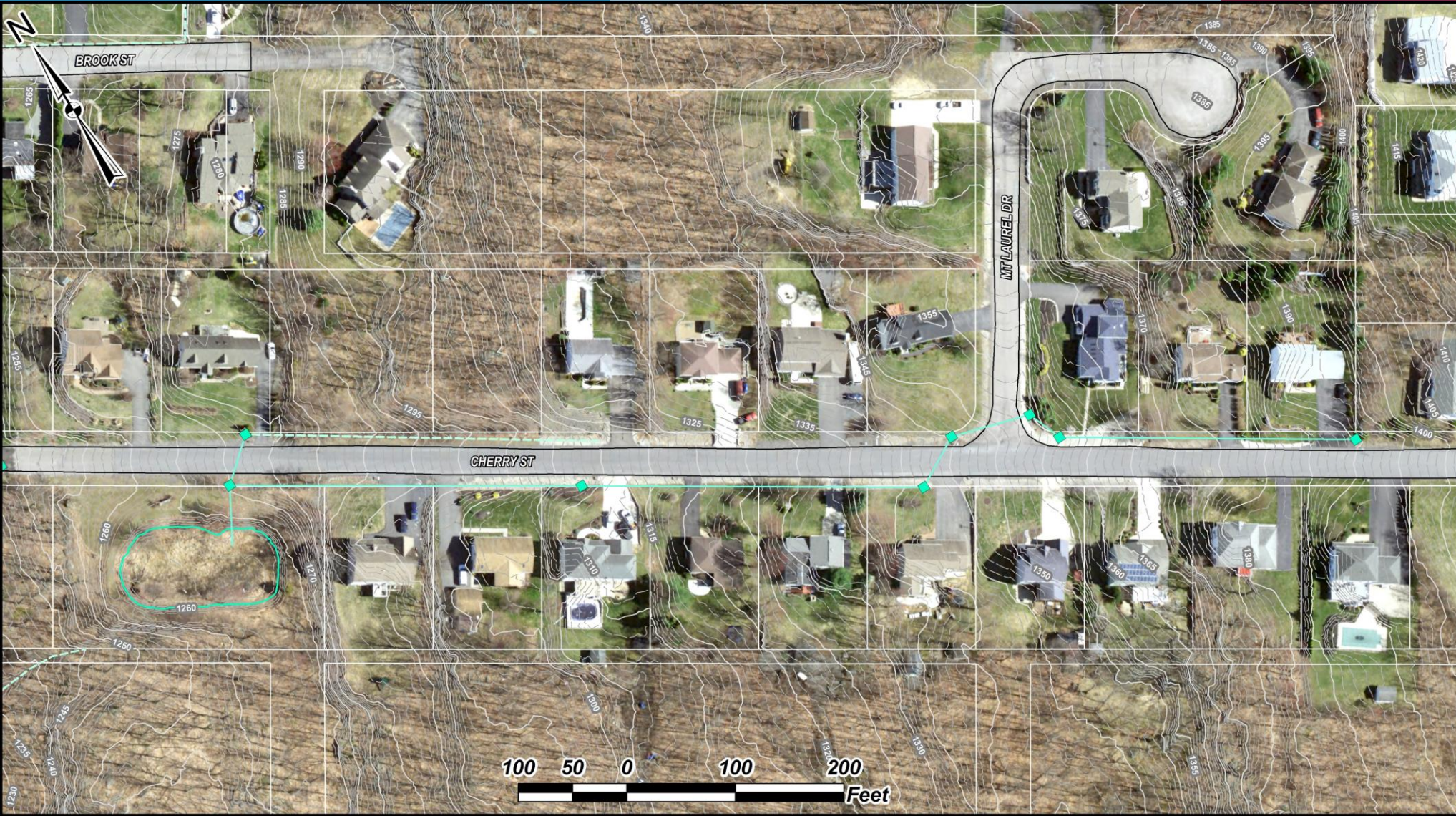
- Contours based upon 2019 PASDA LiDAR
- Property Lines based upon Lackawanna County GIS Parcel Mapping
- 2021 PEMA Aerial Imagery

Mapping derived from data provided by PASDA, Lackawanna County
GIS, and City of Scranton GIS and GPS field locations by HRG.

10/9/2023 PM: GW GIS: GW QA: SS 004441.0436

HRG
369 East Park Drive
Harrisburg, PA 17111
717.564.1121 (phone)
717.564.1158 (fax)
www.hrg-inc.com

CHERRY STREET



- Existing drainage system not collecting stormwater runoff.
- Water not getting into existing stormwater basin.
- Water continues to flow down Cherry Street past basin and creates problems at Fig Street.



CHERRY STREET

EAST MOUNTAIN - SCRANTON, PA





CHERRY STREET

EAST MOUNTAIN - SCRANTON, PA





CHERRY STREET

EAST MOUNTAIN - SCRANTON, PA





CHERRY STREET

EAST MOUNTAIN - SCRANTON, PA





CHERRY STREET

EAST MOUNTAIN - SCRANTON, PA





CHERRY STREET

EAST MOUNTAIN - SCRANTON, PA





CHERRY STREET

EAST MOUNTAIN - SCRANTON, PA





CHERRY STREET

EAST MOUNTAIN - SCRANTON, PA





CHERRY STREET

EAST MOUNTAIN - SCRANTON, PA



**PROPOSED DRAINAGE
IMPROVEMENTS
CHERRY STREET
(CONCEPTUAL)**

**East Mountain Stormwater
and Drainage Study**
City of Scranton
Lackawanna Co., PA



50 25 0 50 100
Feet

MAP LEGEND:

EXISTING STORM SEWERS

- STORM SEWER STRUCTURES
- STORM SEWER PIPES
- STORMWATER SWALES

PROPOSED IMPROVEMENTS

- INLET
- MANHOLE
- HEADWALL
- STORM SEWER
- UNDER DRAIN
- DRAINAGE SWALE
- INSTALL CURB
- DRAINAGE SWALE
- FRENCH DRAIN
- STORMWATER BASIN
- PAVE APRON AROUND EX. INLET

- PUBLIC COMMENTS RECEIVED

- Contours based upon 2019 PASDA LiDAR
- Property Lines base upon Lackawanna County GIS Parcel Mapping
- 2021 PEMA Aerial Imagery

Mapping derived from data provided by PASDA, Lackawanna County
GIS, and City of Scranton GIS and GPS field locations by HRG.

10/9/2023 PM: GW GIS: GW QA: SS 004441.0436

HRG
369 East Park Drive
Harrisburg, PA 17111
717.564.1121 (phone)
717.564.1158 (fax)
www.hrg-inc.com

PAVE INLET
APRONS

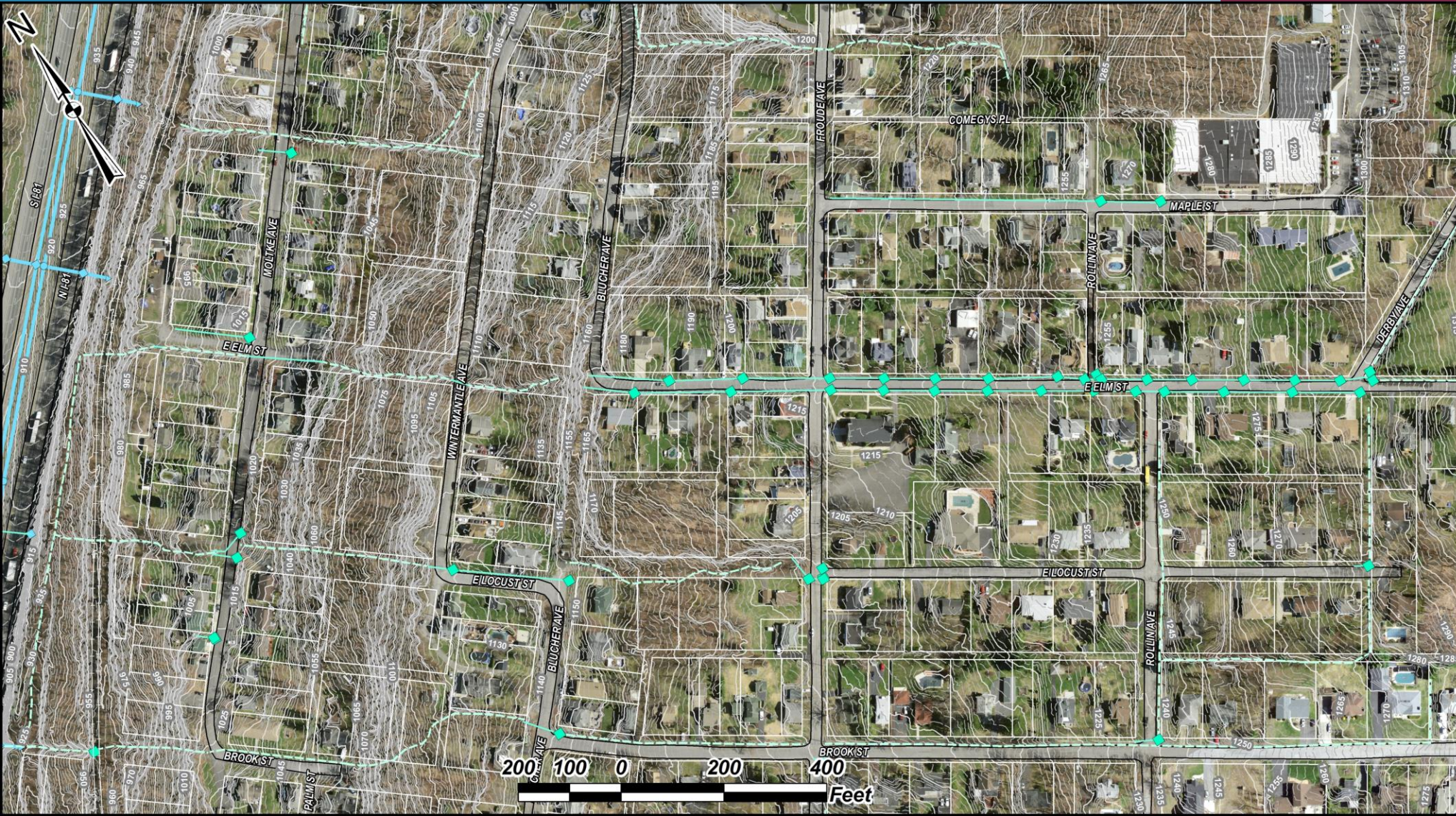
MT LAUREL DR

RIDGEWOOD AVE

CHERRY ST

BROOK ST

WINTERMANTLE AVENUE & EAST ELM STREET



- Drainage from intersection of E. Elm and Derby is not getting into the existing E. Elm drainage system
- Water over-topping Wintermantle Ave.
- Swale along bottom of E Elm is eroded and in poor condition.
- Runoff eroding abandoned rail grade



WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA





WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA

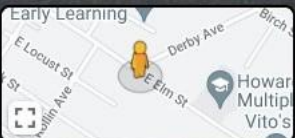


WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA





← 1532 E Elm St
Scranton, Pennsylvania
Google Street View
Nov 2022 See more dates



Google

Image capture: Nov 2022 © 2023 Google United States Terms Privacy Report a problem

WINTERMANTLE AVENUE & EAST ELM STREET

EAST MOUNTAIN - SCRANTON, PA





WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA



WINTERMANTLE AVENUE & EAST ELM STREET

EAST MOUNTAIN - SCRANTON, PA





WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA





WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA



WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA



WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA



WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA





WINTERMANTLE AVENUE & EAST ELM STREET
EAST MOUNTAIN - SCRANTON, PA



PROPOSED DRAINAGE IMPROVEMENTS WINTERMANTLE AVE & EAST ELM STREET (CONCEPTUAL)

East Mountain Stormwater and Drainage Study
City of Scranton
Lackawanna Co., PA



MAP LEGEND:

- EXISTING STORM SEWERS
 - STORM SEWER STRUCTURES
 - STORM SEWER PIPES
 - STORMWATER SWALES
- PROPOSED IMPROVEMENTS
 - INLET
 - MANHOLE
 - HEADWALL
 - STORM SEWER
 - UNDER DRAIN
 - DRAINAGE SWALE
 - INSTALL CURB
 - DRAINAGE SWALE
 - FRENCH DRAIN
 - STORMWATER BASIN
 - PAVE APRON AROUND EX. INLET

- Contours based upon 2019 PASDA LiDAR
- Property Lines base upon Lackawanna County GIS Parcel Mapping
- 2021 PEMA Aerial Imagery

Mapping derived from data provided by PASDA, Lackawanna County GIS, and City of Scranton GIS and GPS field locations by HRG.

10/9/2023 PM: GW GIS: GW QA: SS 004441.0436

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EAST ELM STREET & DERBY AVE

CLEAR SWALES AND
INSTALL HEADWALL



REPLACE FAILING
STORM PIPES

IMPROVE
HEADWALL

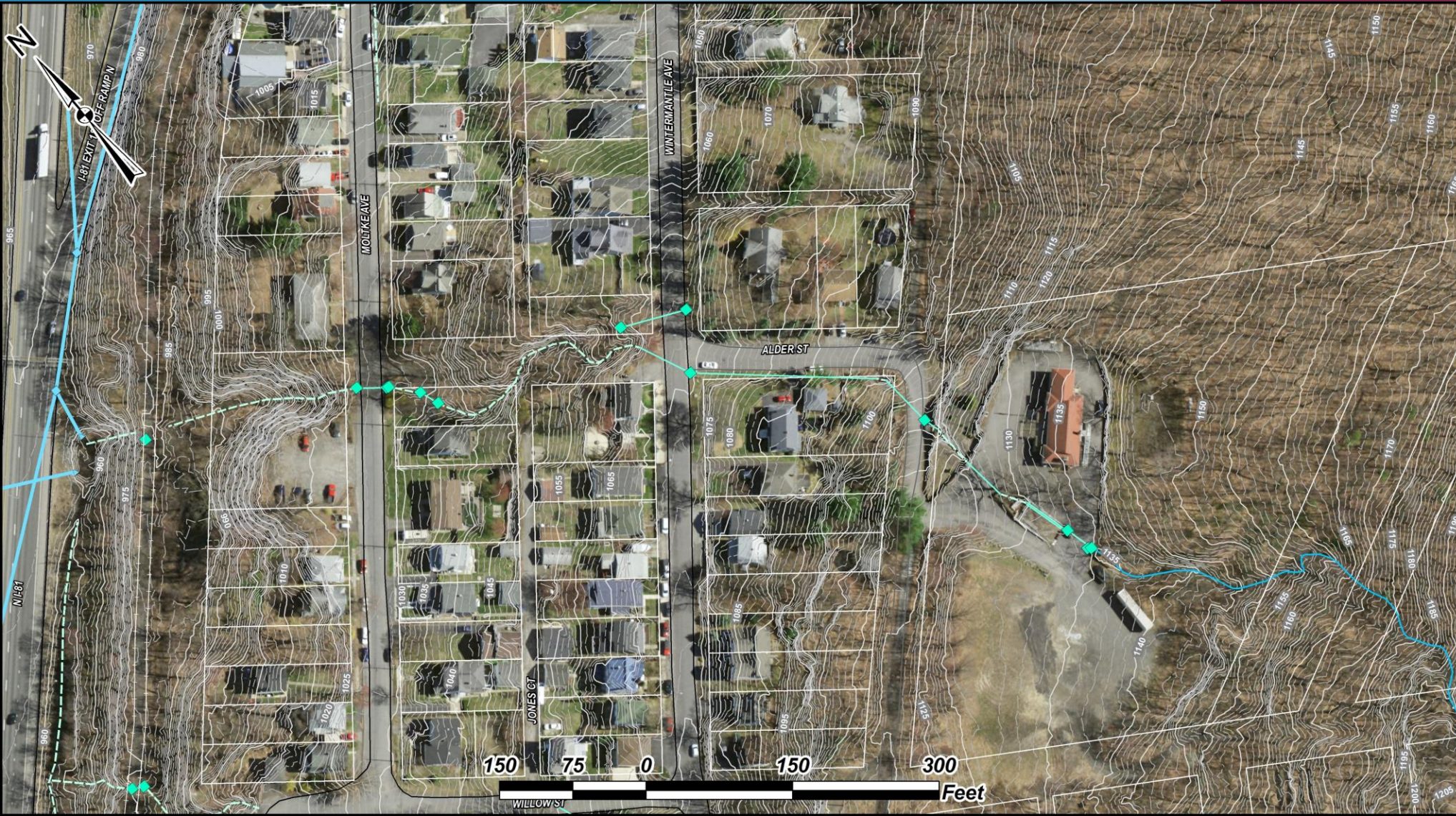
CREATE SWALES
AND RR CULVERT

CLEAR SWALE AND
INSTALL HEADWALL

REPLACE
CULVERT

ESTABLISH
SWALES

MOUNTAIN LAKE CREEK



- Storm flows are overwhelming the drainage system at the Marine Corps League Museum.
- Inlets are missing along Alder Street.
- Uncontrolled discharge below Wintermantle Ave.
- Flooding and eroding abandoned rail grade



MOUNTAIN LAKE CREEK

EAST MOUNTAIN - SCRANTON, PA





MOUNTAIN LAKE CREEK

EAST MOUNTAIN - SCRANTON, PA





MOUNTAIN LAKE CREEK

EAST MOUNTAIN - SCRANTON, PA





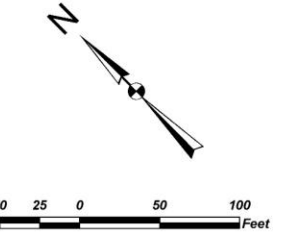
MOUNTAIN LAKE CREEK

EAST MOUNTAIN - SCRANTON, PA



**PROPOSED DRAINAGE
IMPROVEMENTS
MOUNTAIN LAKE CREEK
(CONCEPTUAL)**

**East Mountain Stormwater
and Drainage Study**
City of Scranton
Lackawanna Co., PA



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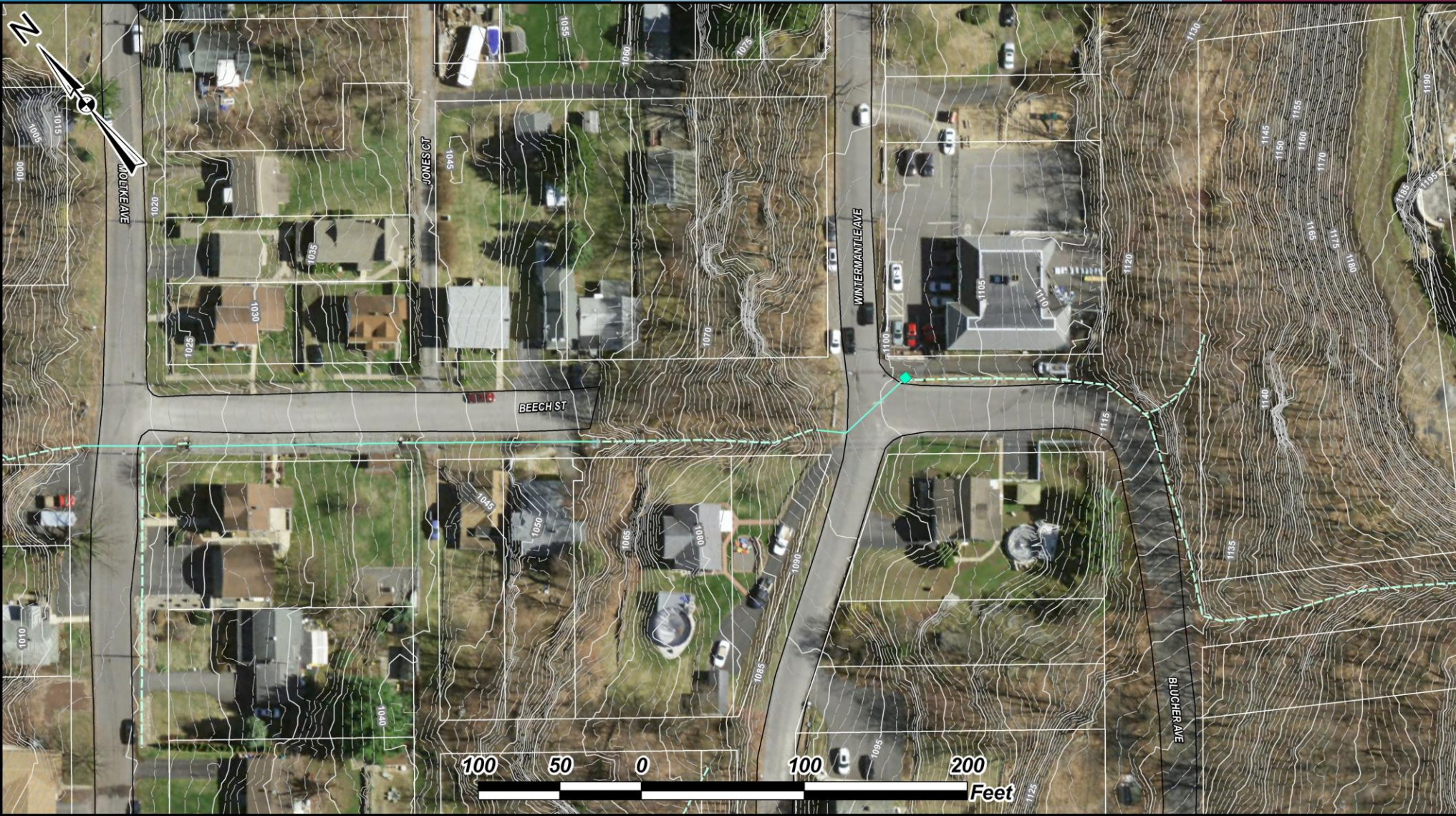
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BEECH STREET & WINTERMANTLE AVENUE



- **Roadway Hazard**
(Ice & Flooding)
- **Residential Flooding**
- **School Safety**



BEECH STREET & WINTERMANTLE AVENUE
EAST MOUNTAIN - SCRANTON, PA





BEECH STREET & WINTERMANTLE AVENUE
EAST MOUNTAIN - SCRANTON, PA

**PROPOSED DRAINAGE
IMPROVEMENTS
BEECH STREET &
WINTERMANTLE AVENUE
(CONCEPTUAL)**

**East Mountain Stormwater
and Drainage Study**
City of Scranton
Lackawanna Co., PA



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EAST MOUNTAIN ROAD



- Residential Flooding
- Runoff from new Mountain Lake Road Culvert?
- Submitted photos of pipe discharge in rear yard.
- Ties into Mountain Lake Road drainage system



EAST MOUNTAIN ROAD

EAST MOUNTAIN - SCRANTON, PA





EAST MOUNTAIN ROAD
EAST MOUNTAIN - SCRANTON, PA



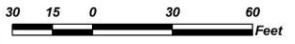
EAST MOUNTAIN ROAD

EAST MOUNTAIN - SCRANTON, PA



**PROPOSED DRAINAGE
IMPROVEMENTS
EAST MOUNTAIN ROAD
(CONCEPTUAL)**

**East Mountain Stormwater
and Drainage Study**
City of Scranton
Lackawanna Co., PA



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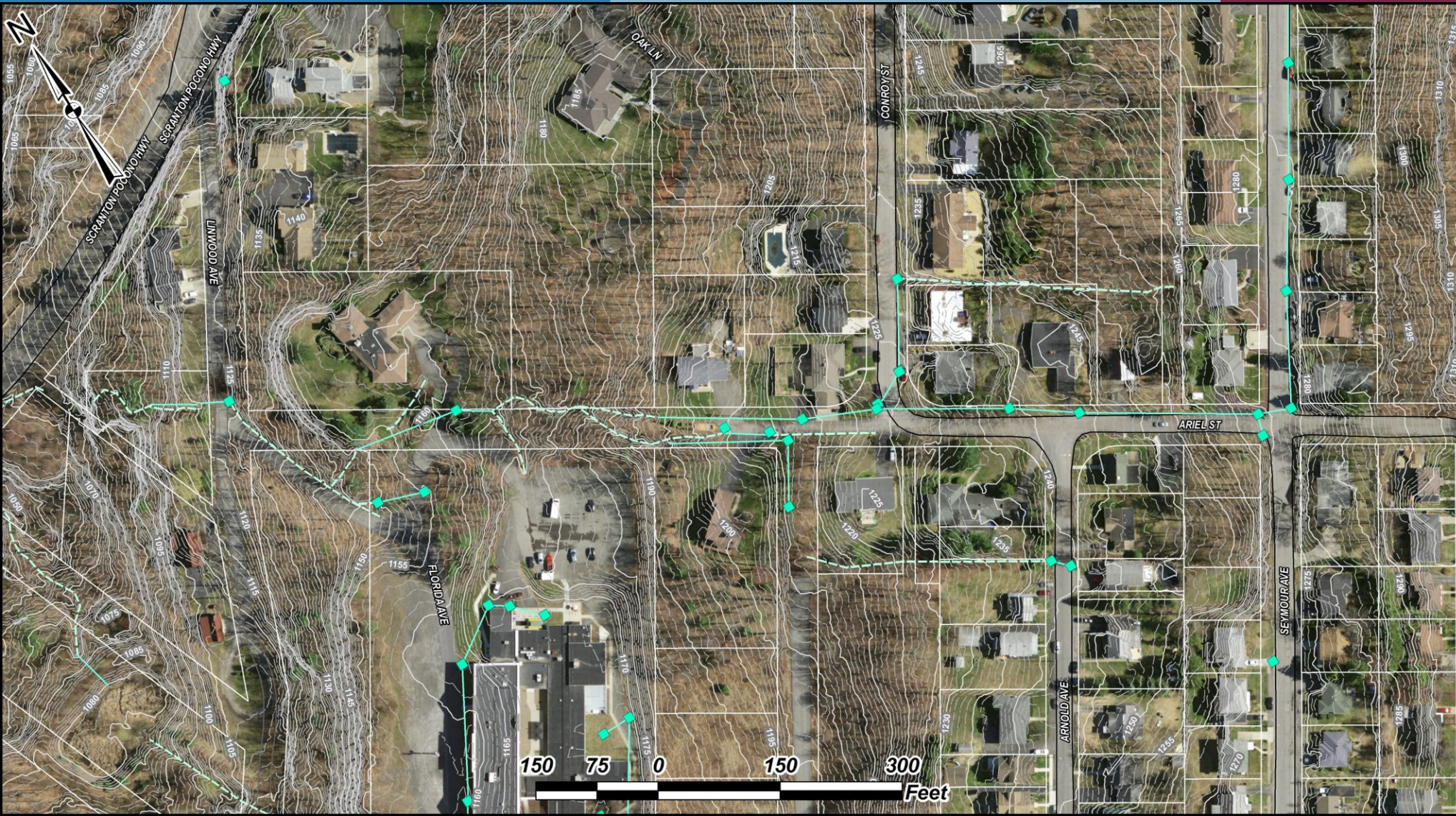
CONNECT TO E MT RD
DRAINAGE SYSTEM

BUILD NEW
HEADWALL

INSTALL NEW
PIPE & INLETS



LINWOOD AVENUE



- ***Washouts on Linwood & Florida Avenues***
- ***Residential Flooding***
- ***Existing drainage system on Ariel Street***



LINWOOD AVENUE

EAST MOUNTAIN - SCRANTON, PA





LINWOOD AVENUE

EAST MOUNTAIN - SCRANTON, PA





LINWOOD AVENUE

EAST MOUNTAIN - SCRANTON, PA





LINWOOD AVENUE

EAST MOUNTAIN - SCRANTON, PA





LINWOOD AVENUE

EAST MOUNTAIN - SCRANTON, PA





LINWOOD AVENUE

EAST MOUNTAIN - SCRANTON, PA





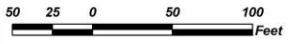
LINWOOD AVENUE

EAST MOUNTAIN - SCRANTON, PA



**PROPOSED DRAINAGE
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LINWOOD AVENUE
(CONCEPTUAL)**

**East Mountain Stormwater
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City of Scranton
Lackawanna Co., PA



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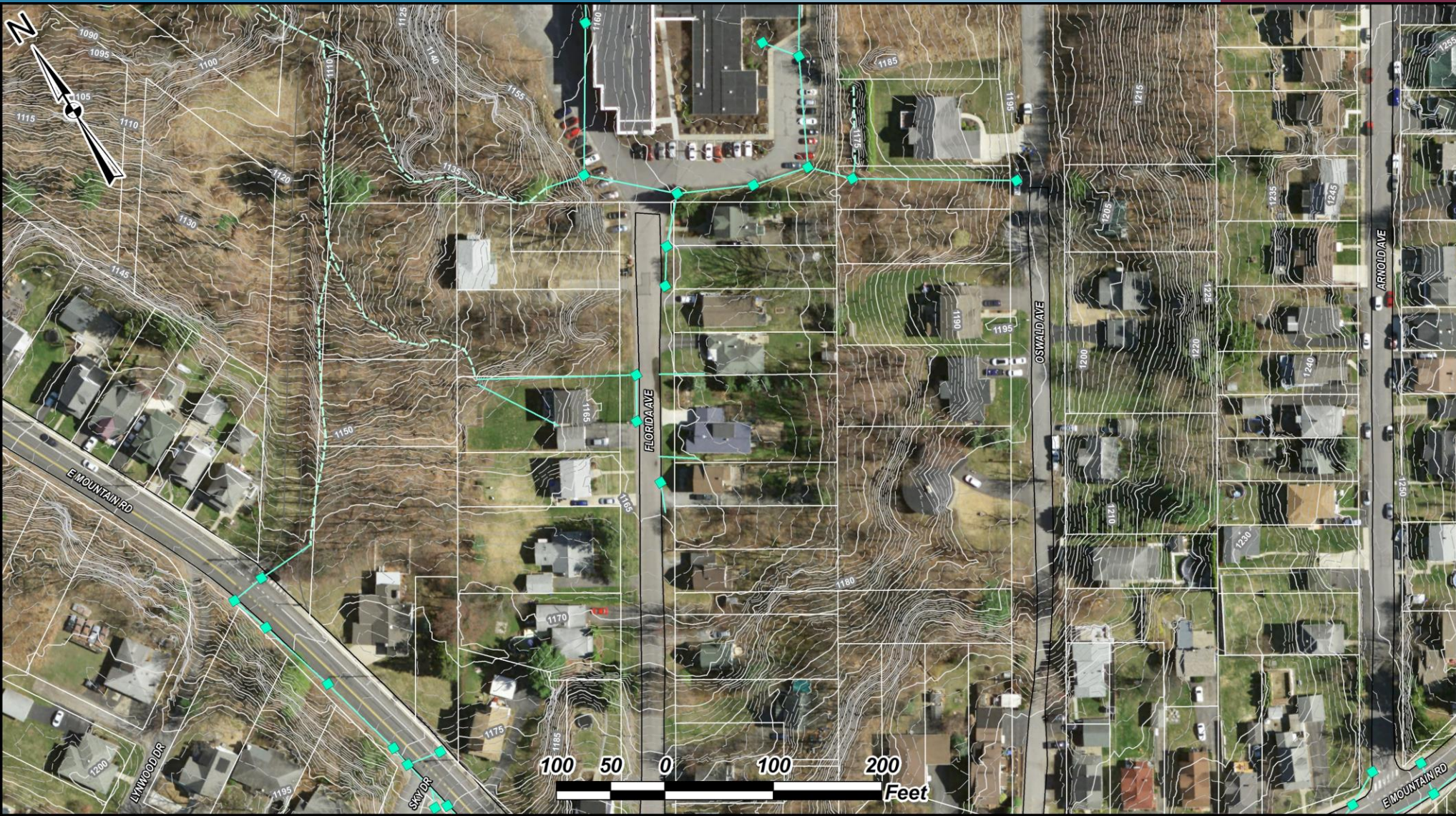
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FLORIDA AVENUE



- *Ponding water on Florida Avenue*
- *Runoff from Oswald Avenue*



FLORIDA AVENUE

EAST MOUNTAIN - SCRANTON, PA





FLORIDA AVENUE

EAST MOUNTAIN - SCRANTON, PA





FLORIDA AVENUE

EAST MOUNTAIN - SCRANTON, PA





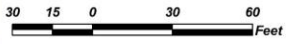
FLORIDA AVENUE

EAST MOUNTAIN - SCRANTON, PA



**PROPOSED DRAINAGE
IMPROVEMENTS
FLORIDA AVENUE
(CONCEPTUAL)**

**East Mountain Stormwater
and Drainage Study**
City of Scranton
Lackawanna Co., PA



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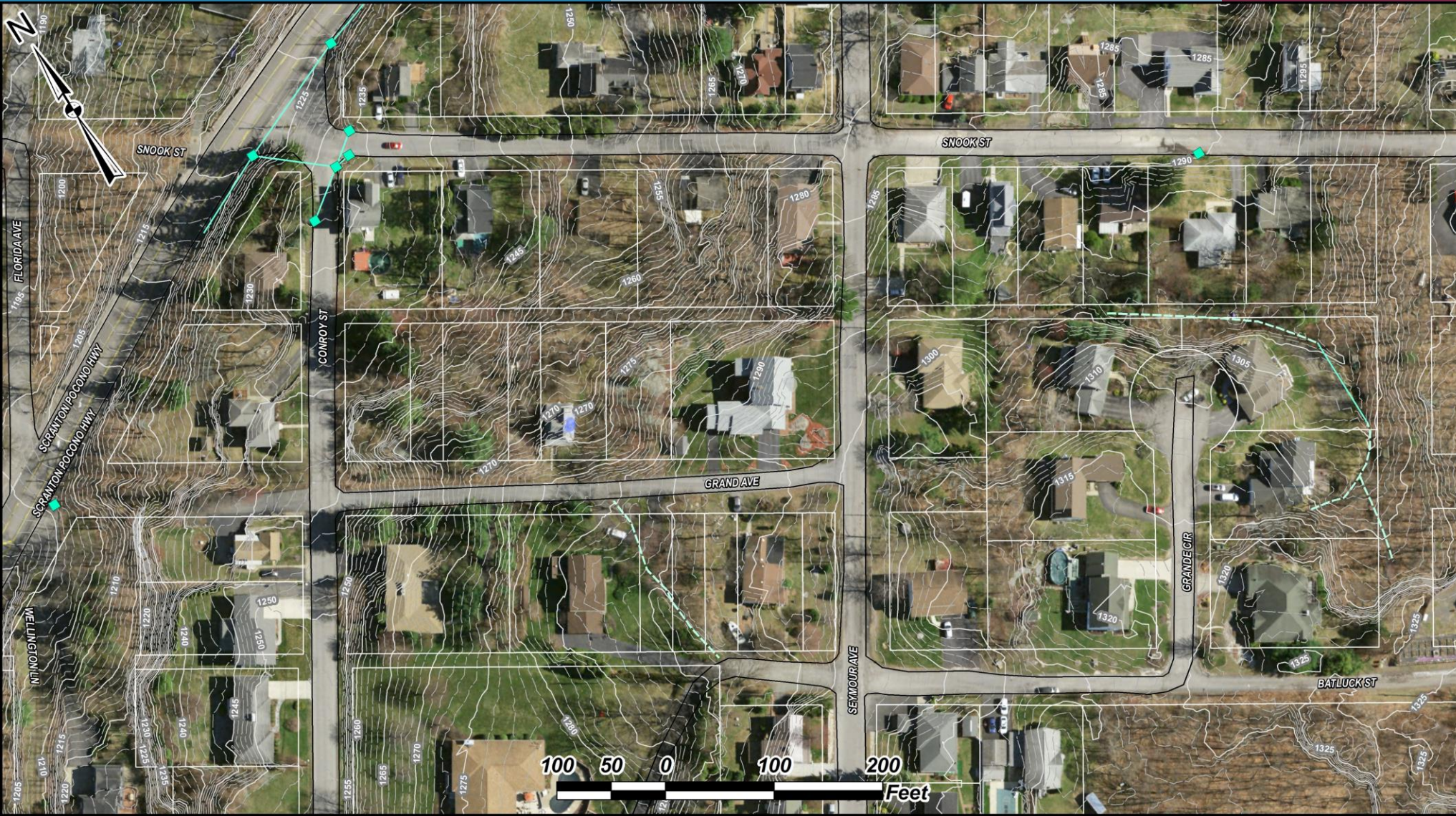
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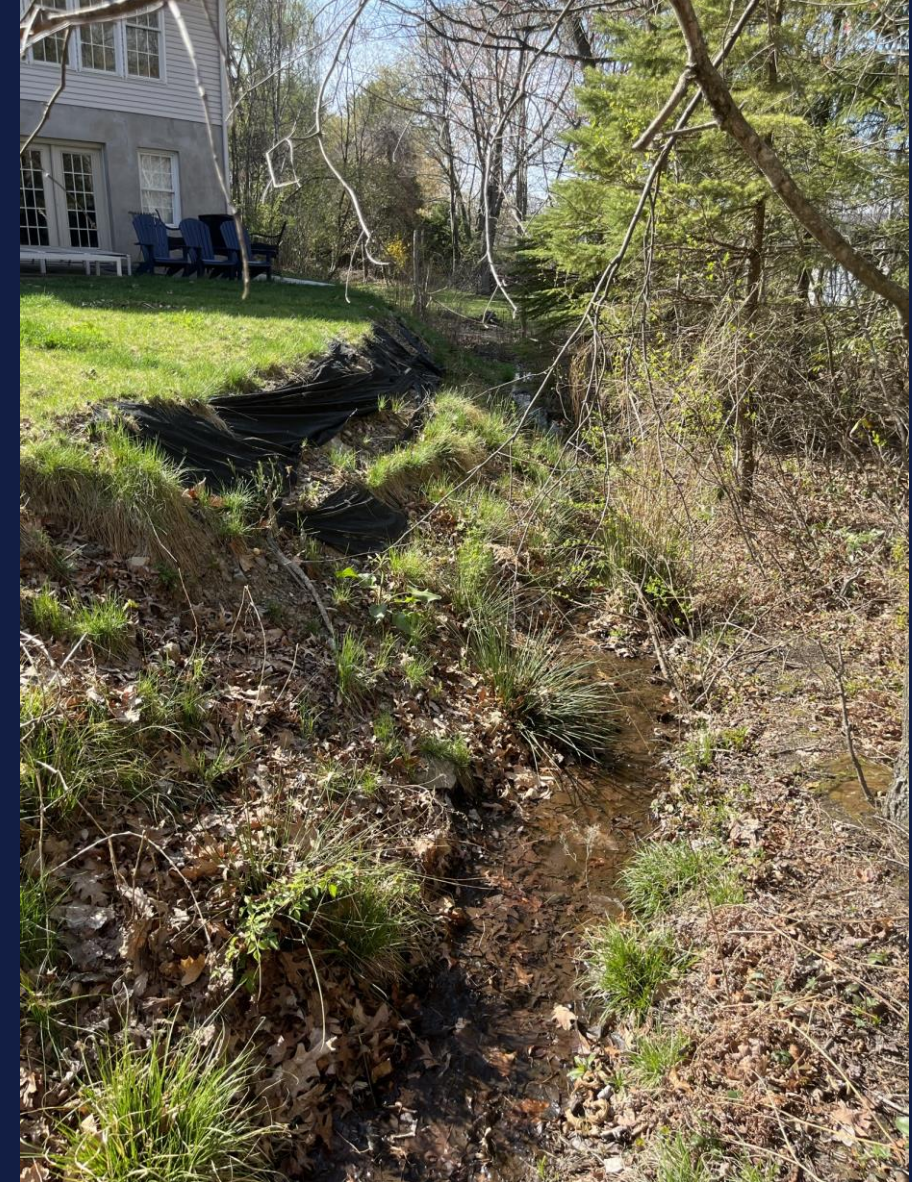
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SNOOK STREET



- Residential Flooding on Snook St. & Grand Ave.
- High Groundwater Table
- Street Ponding on Seymour Avenue
- Runoff crossing Moosic Street



SNOOK STREET
EAST MOUNTAIN - SCRANTON, PA



SNOOK STREET
EAST MOUNTAIN - SCRANTON, PA



SNOOK STREET
EAST MOUNTAIN - SCRANTON, PA





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SNOOK STREET

EAST MOUNTAIN - SCRANTON, PA





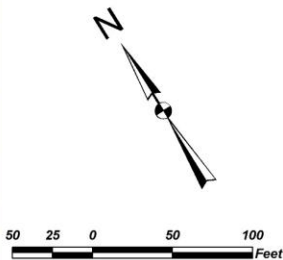
SNOOK STREET
EAST MOUNTAIN - SCRANTON, PA



SNOOK STREET
EAST MOUNTAIN - SCRANTON, PA



PROPOSED DRAINAGE IMPROVEMENTS SNOOK STREET (CONCEPTUAL)
East Mountain Stormwater and Drainage Study
City of Scranton
Lackawanna Co., PA



- MAP LEGEND:**
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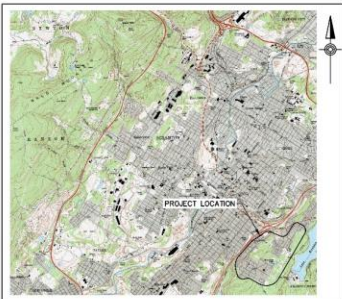


PRELIMINARY PLANS

EAST MOUNTAIN DRAINAGE IMPROVEMENTS

PRELIMINARY STORMWATER IMPROVEMENTS FOR EAST MOUNTAIN STORMWATER & DRAINAGE STUDY

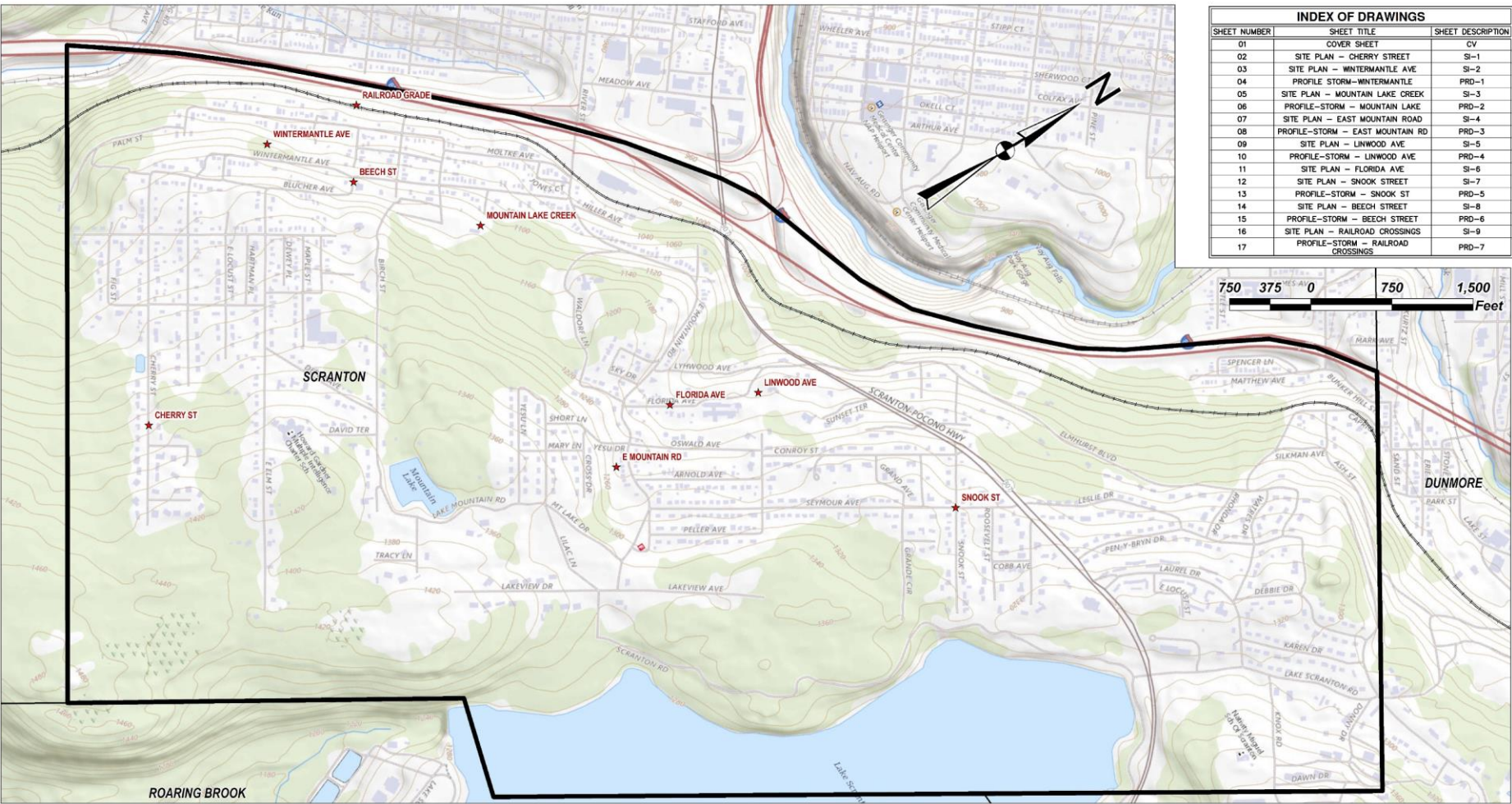
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA



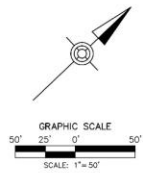
LOCATION MAP

SCALE: 1"=200'

INDEX OF DRAWINGS		
SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
01	COVER SHEET	CV
02	SITE PLAN - CHERRY STREET	SI-1
03	SITE PLAN - WINTERMANTLE AVE	SI-2
04	PROFILE-STORM - WINTERMANTLE	PRD-1
05	SITE PLAN - MOUNTAIN LAKE CREEK	SI-3
06	PROFILE-STORM - MOUNTAIN LAKE	PRD-2
07	SITE PLAN - EAST MOUNTAIN ROAD	SI-4
08	PROFILE-STORM - EAST MOUNTAIN RD	PRD-3
09	SITE PLAN - LINWOOD AVE	SI-5
10	PROFILE-STORM - LINWOOD AVE	PRD-4
11	SITE PLAN - FLORIDA AVE	SI-6
12	SITE PLAN - SNOOK STREET	SI-7
13	PROFILE-STORM - SNOOK ST	PRD-5
14	SITE PLAN - BEECH STREET	SI-8
15	PROFILE-STORM - BEECH STREET	PRD-6
16	SITE PLAN - RAILROAD CROSSINGS	SI-9
17	PROFILE-STORM - RAILROAD CROSSINGS	PRD-7



NO.	DATE	REVISIONS	DESCRIPTION
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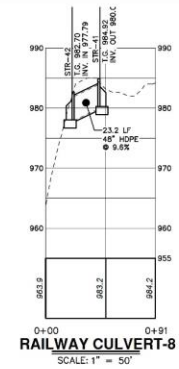
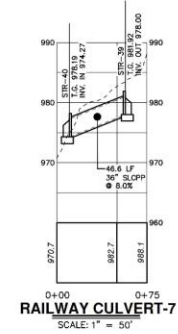
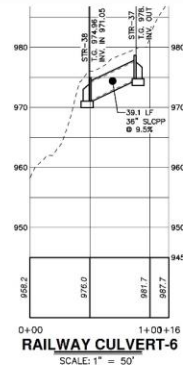
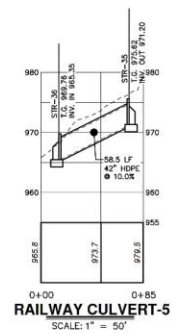
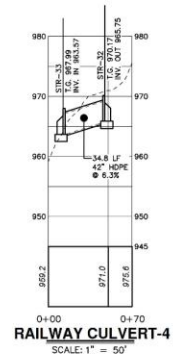
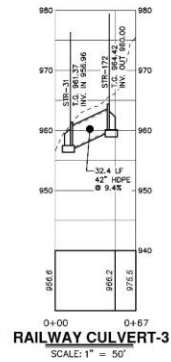
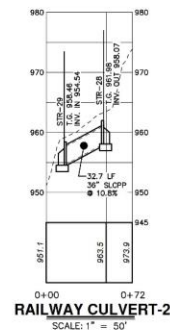
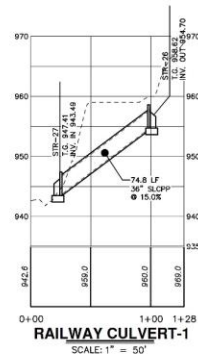
**PRELIMINARY STORMWATER IMPROVEMENTS
FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY**
CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

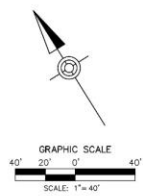
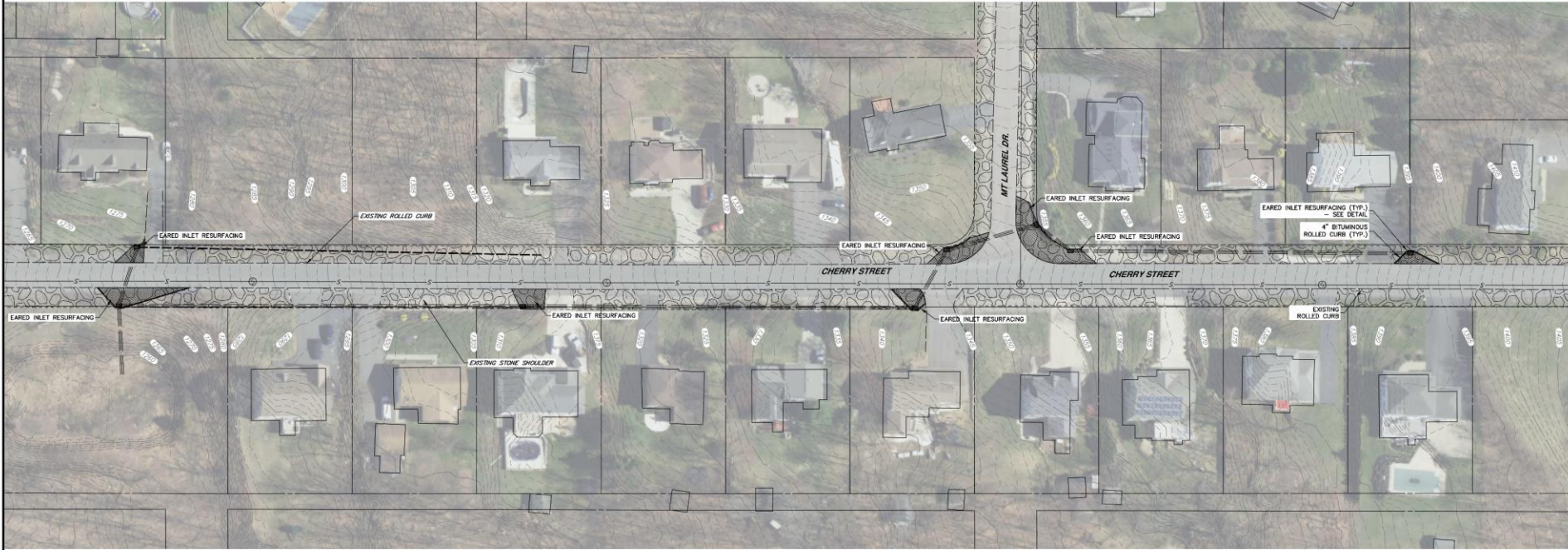
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HRG PROJECT NUMBER: 202444136.0436
PLAN DATE: 08.11.2023
DRAWING SCALE:
PROJ. MANAGER: MWS

NO.	DATE	DESCRIPTION
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10		

SHEET TITLE:
**SITE PLAN -
RAILROAD
CROSSINGS**





**PRELIMINARY STORMWATER IMPROVEMENTS
FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY**

CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503

SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

PROFESSIONAL SEAL:

HRG PROJECT NUMBER: 2024-04-11-18-04-30
PLAN DATE: 08.11.2023
DRAWING SCALE:
PROJ. MANAGER: MWS

REVISIONS		DESCRIPTION	
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SHEET TITLE:
**SITE PLAN -
CHERRY STREET**

SHEET: **SI-1** **02**

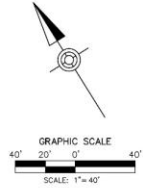
**PRELIMINARY STORMWATER IMPROVEMENTS
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SCRANTON, PA 18503
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

PROFESSIONAL SEAL

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PLAN DATE: 08.11.2023
DRAWING SCALE:
PROJ. MANAGER: MWS

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SHEET TITLE:
**SITE PLAN -
WINTERMANTLE
AVE**



**PRELIMINARY STORMWATER IMPROVEMENTS
FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY**

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SCRANTON, PA 18503

SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

PROFESSIONAL SEAL

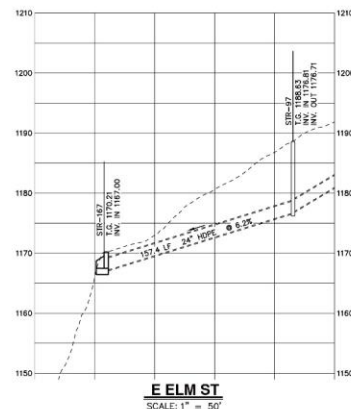
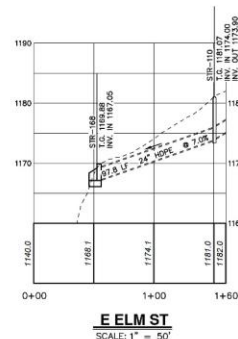
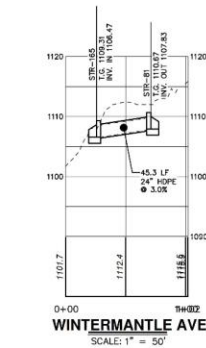
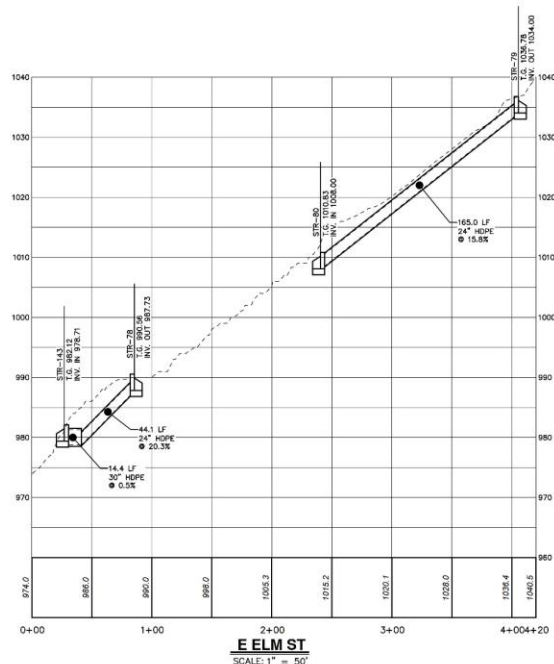
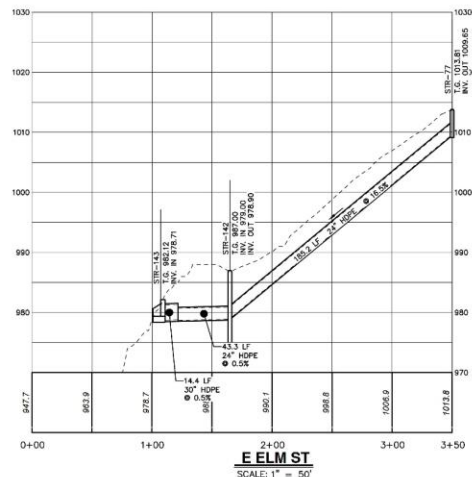
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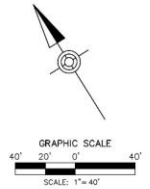
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SHEET TITLE:
**PROFILE
STORM-WINTERMANTLE**

SHEET: **PRD-1**

04





**PRELIMINARY STORMWATER IMPROVEMENTS
FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY**

CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503

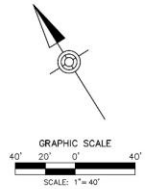
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

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PLAN DATE: 08.11.2023
DRAWING SCALE:
PROJ. MANAGER: MWS

REVISIONS		DESCRIPTION
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SHEET TITLE:
**SITE PLAN -
MOUNTAIN LAKE
CREEK**



PRELIMINARY STORMWATER IMPROVEMENTS
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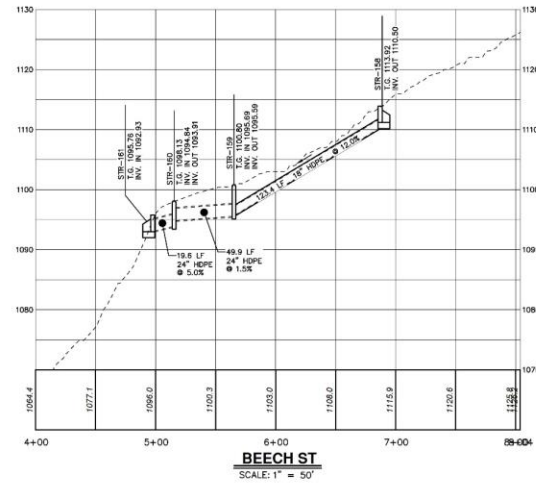
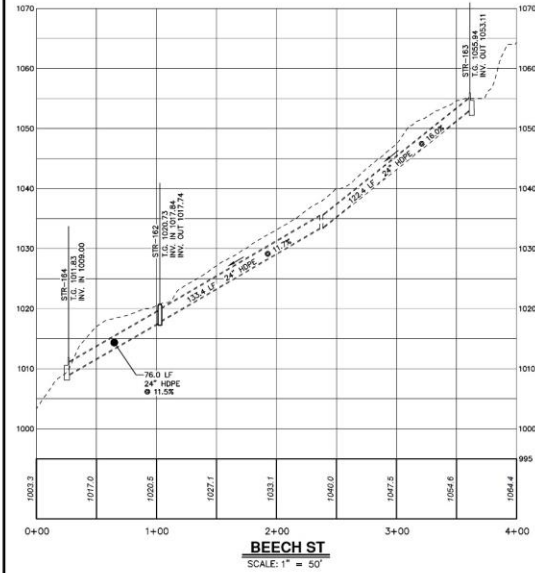
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

PROFESSIONAL SEAL

HRG PROJECT NUMBER: 2024-04-11-10-04-30
PLAN DATE: 08.11.2023
DRAWING SCALE:
PROJ. MANAGER: MWS

REVISIONS	
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SHEET TITLE:
SITE PLAN -
BEECH STREET



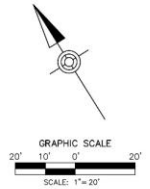
PRELIMINARY STORMWATER IMPROVEMENTS
FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY
CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

PROFESSIONAL SEAL:

HRG PROJECT NUMBER: 2024-04-1136.0436
PLAN DATE: 08.11.2023
DRAWING SCALE:
PROJ. MANAGER: MWS

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SHEET TITLE:
PROFILE-STORM -
BEECH STREET



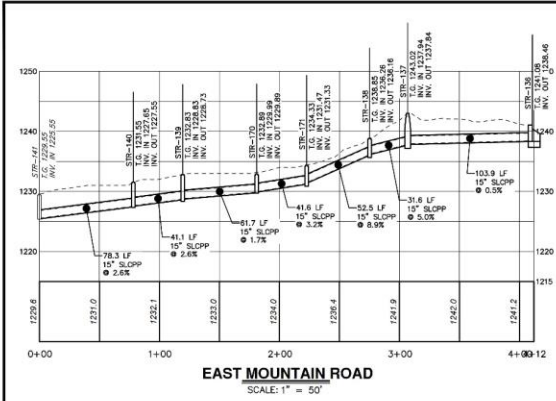
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FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY**
CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

PROFESSIONAL SEAL:

HRG PROJECT NUMBER: 2024-04-11-04-03
PLAN DATE: 08.11.2023
DRAWING SCALE:
PROJ. MANAGER: MWS

REVISIONS	
DATE	DESCRIPTION

SHEET TITLE:
**SITE PLAN - EAST
MOUNTAIN ROAD**



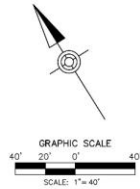
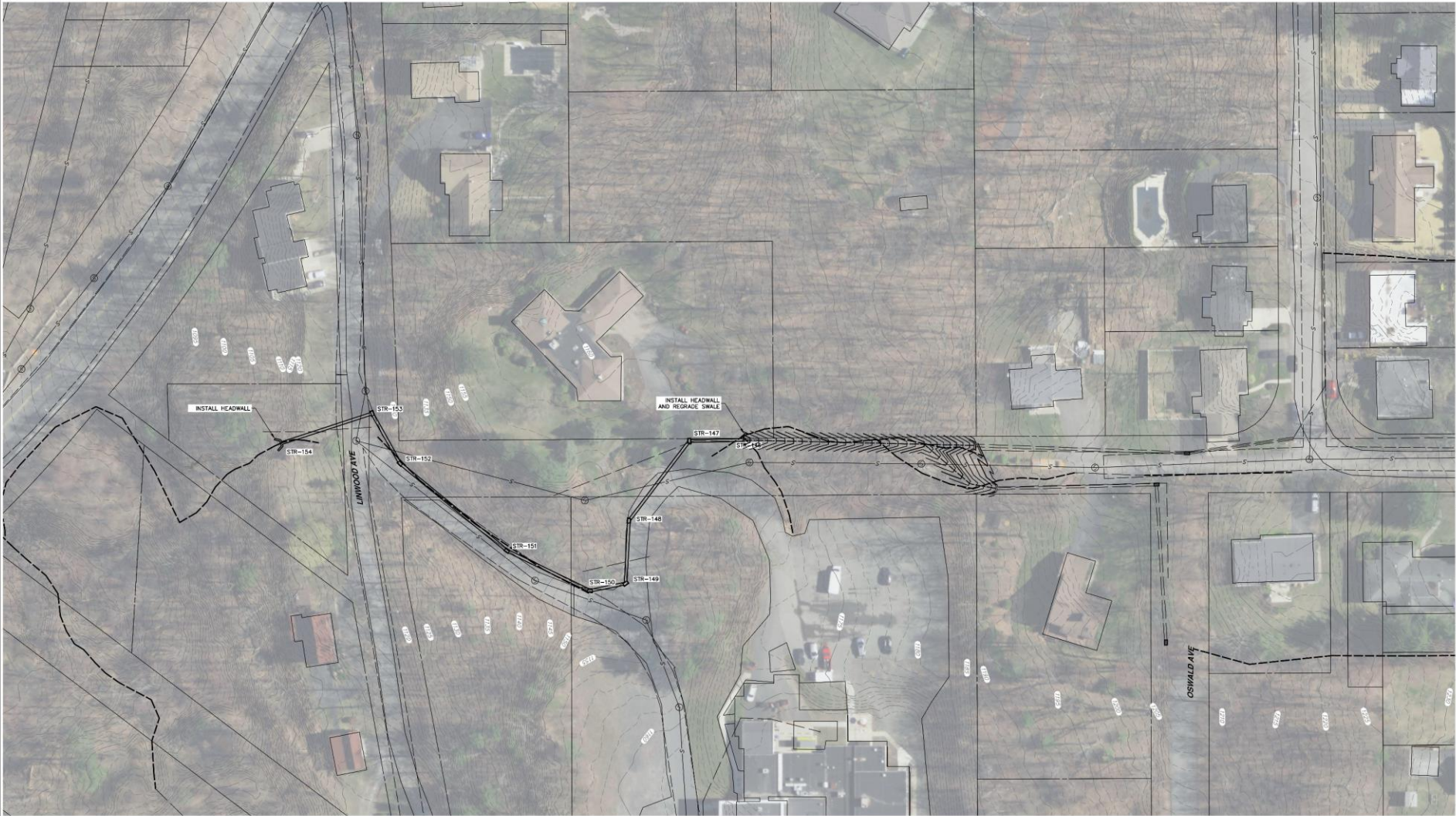
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FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY
CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

PROFESSIONAL SEAL:

HRG PROJECT NUMBER: 20444136.0436
PLAN DATE: 08.11.2023
DRAWING SCALE:
PROJ. MANAGER: MWS

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SHEET TITLE:
PROFILE-STORM -
EAST MOUNTAIN
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**PRELIMINARY STORMWATER IMPROVEMENTS
FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY**

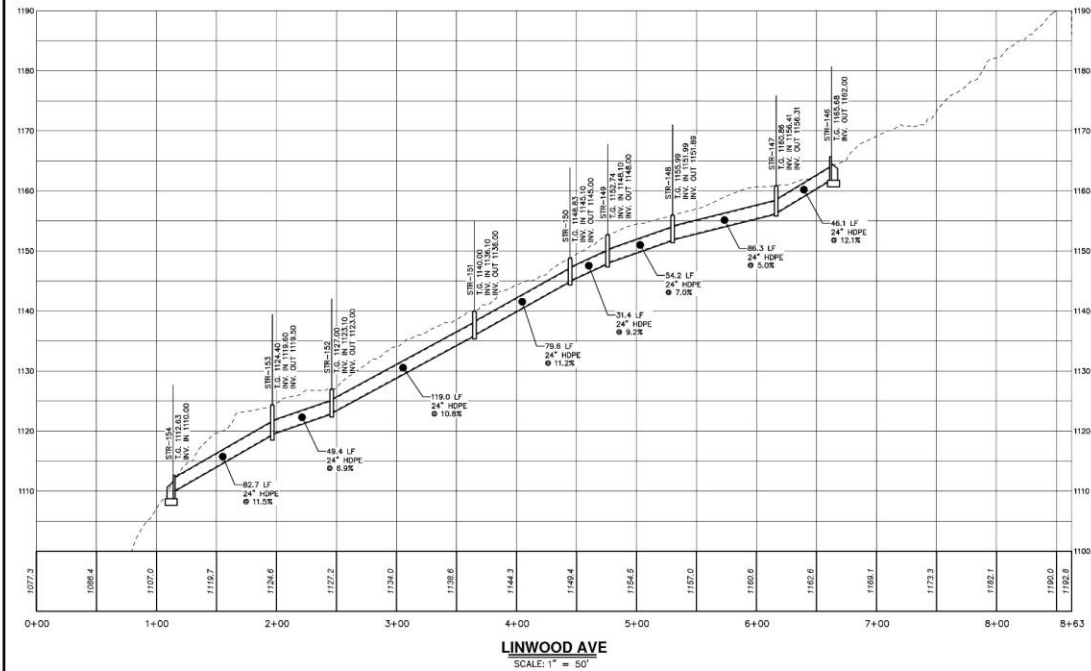
CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

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PLAN DATE: 08.11.2023
DRAWING SCALE:
PROJ. MANAGER: MWS

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SHEET TITLE:
**SITE PLAN -
LINWOOD AVE**



PRELIMINARY STORMWATER IMPROVEMENTS
FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY
CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503

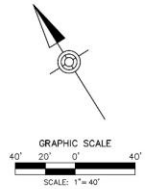
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

PROFESSIONAL SEAL:

HRG PROJECT NUMBER: 2024-04-1136.0436
PLAN DATE: 08.11.2023
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PROJ. MANAGER: MWS

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SHEET TITLE:
PROFILE-STORM -
LINWOOD AVE





HERBERT, ROWLAND & GRUBIC, INC.
P.O. BOX 504
CLARKS SUMMIT, PA 18411
570.851.2804 | hrg-inc.com

PRELIMINARY STORMWATER IMPROVEMENTS
FOR
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CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503
SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

PROFESSIONAL SEAL:

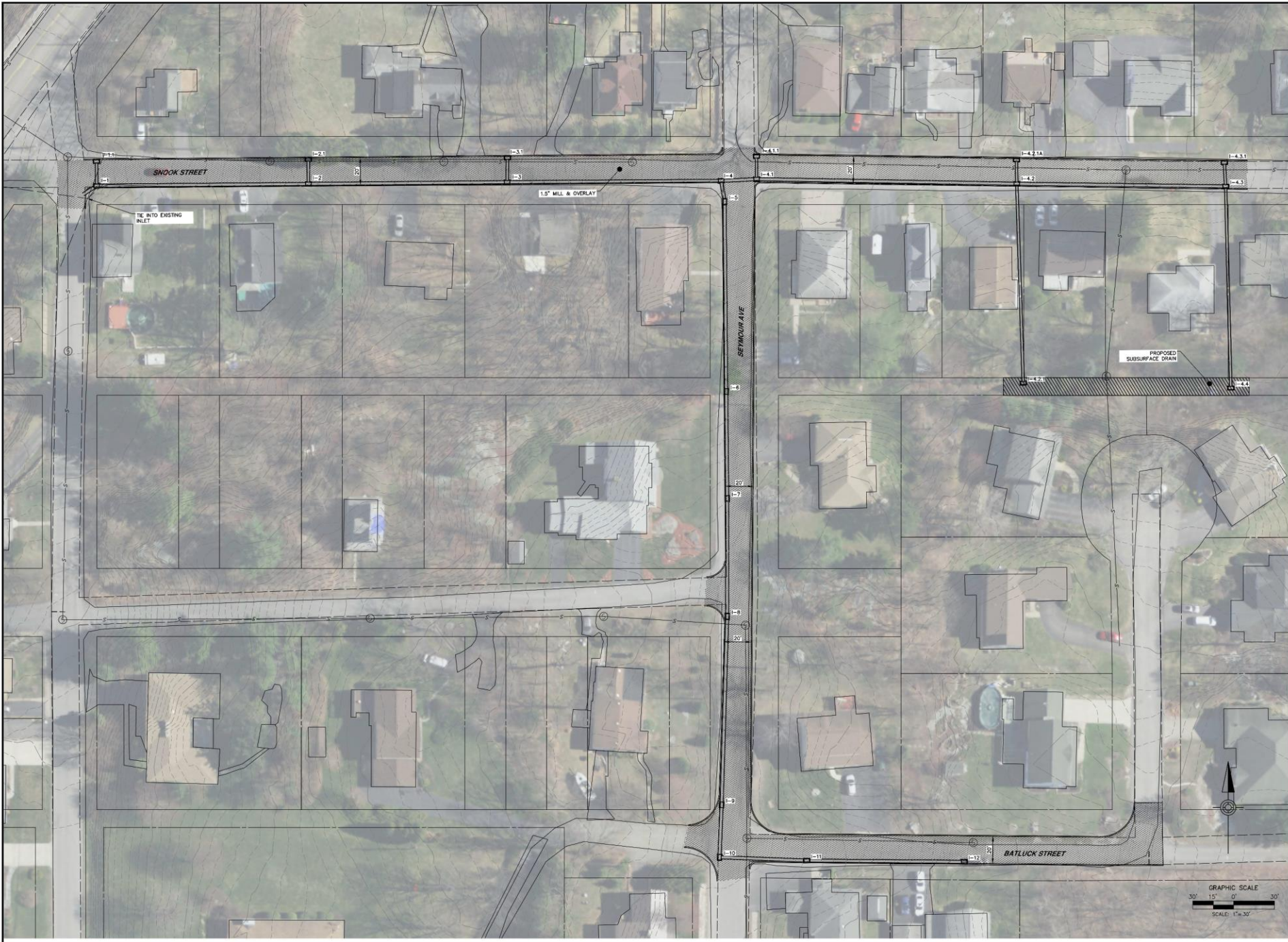
HRG PROJECT NUMBER: 2024-04-11-04-03
PLAN DATE: 08.11.2023
DRAWING SCALE:
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SHEET TITLE:
SITE PLAN - FLORIDA AVE

SHEET: **SI-6** 11

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**PRELIMINARY STORMWATER IMPROVEMENTS
FOR
EAST MOUNTAIN STORMWATER & DRAINAGE STUDY**

CITY OF SCRANTON
340 N WASHINGTON AVE
SCRANTON, PA 18503

SCRANTON, LACKAWANNA COUNTY, PENNSYLVANIA

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SHEET TITLE:
**SITE PLAN -
SNOOK STREET**

EAST MOUNTAIN STORMWATER AND DRAINAGE

WHAT'S NEXT?

✓ FINAL SURVEY, DESIGNS & PERMITTING

- ❖ Public Bidding for Consulting Services
- ❖ PADEP and LCCD Permit Approvals
- ❖ Utility Coordination

✓ CONSTRUCTION PLANS & BID DOCUMENTS

- ❖ Review and approval by City before Bid Advertisement

✓ CONSTRUCTION BIDDING & PROJECT AWARD

✓ PROJECT CONSTRUCTION



EAST MOUNTAIN STORMWATER AND DRAINAGE

QUESTIONS?

GEORGE WHITE

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- gwhite@hrg-inc.com

SCOTT SMITH, PE

- Project Engineer
- ssmith@hrg-inc.com





EAST MOUNTAIN STORMWATER AND DRAINAGE FEASIBILITY STUDY

CITY OF SCRANTON, LACKAWANNA COUNTY, PA

OCTOBER 25, 2023

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