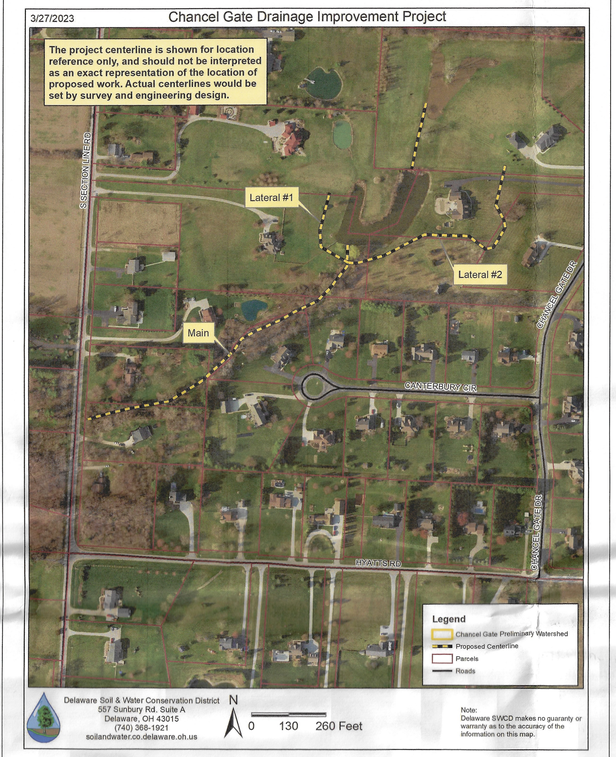
## LOCATION MAP




STATE OF OHIO, DELAWARE COUNTY
DELAWARE COUNTY ENGINEER

# CHANCEL GATE
# DRAINAGE IMPROVEMENT PROJECT

DELAWARE COUNTY
CONCORD TOWNSHIP

| Chancel Gate | | | |
|---|---|---|---|
| **ESTIMATED QUANTITIES** | | | |
| **Main** | | | |
| Item | Description | Quantity | Unit |
| SPECIAL | Utility Relocation | LUMP | |
| NRCS 326 | Clearing & Snagging | LUMP | |
| NRCS 410 | Grade Stabilization Structure - Rock Pad | 1 | Each |
| NRCS 606 | 8" Pipe, Non-Perforated (ODOT 707.33) | 771 | Lineal Feet |
| NRCS 606 | 10" Pipe, Non-Perforated (ODOT 707.33) | 258 | Lineal Feet |
| NRCS 606 | 15" Pipe, Non-Perforated (ODOT 707.33) | 156 | Lineal Feet |
| NRCS 606 | 15" Animal Guard | 1 | Each |
| NRCS 606 | Tile Inspection Well | 5 | Each |
| NRCS 608 | Surface Drain - Swale | 536 | Lineal Feet |
| NRCS 620 | Underground Outlet - Blind Inlet | 1 | Each |
| ODOT 659 | Seeding & Mulching, Class 1, no anchoring | 4,200 | Square Yards |
| **Lateral #1** | | | |
| Item | Description | Quantity | Unit |
| NRCS 326 | Clearing & Snagging | LUMP | |
| NRCS 382 | Fence Gate | 2 | Each |
| NRCS 606 | 8" Pipe, perforated (ODOT 707.33) | 311 | Lineal Feet |
| NRCS 606 | Tile Inspection Well | 1 | Each |
| ODOT 202 | Fence for Removal | 100 | Lineal Feet |
| ODOT 659 | Seeding & Mulching, Class 1, no anchoring | 750 | Square Yards |
| **Lateral #2** | | | |
| Item | Description | Quantity | Unit |
| SPECIAL | Utility Relcoation | LUMP | |
| NRCS 326 | Clearing & Snagging | LUMP | |
| NRCS 606 | 8" Pipe, perforated (ODOT 707.33) | 816 | Lineal Feet |
| NRCS 606 | Tile Inspection Well | 5 | Each |
| ODOT 611 | 8" Pipe (707.33), Type B Installation, Asphalt Drive | 20 | Lineal Feet |
| ODOT 659 | Seeding & Mulching, Class 1, no anchoring | 2,000 | Square Yards |

## INDEX OF SHEETS



## PROJECT DESCRIPTION

*This project will include the improvement of surface drainage, the installation of subsurface drain, the destruction of existing subsurface drain tile, and the taking of temporary and permanent easements.*

*This project/improvement is being done pursuant to Ohio Revised Code Sections 6131 and 6137.*

## 2023 SPECIFICATIONS

*The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement. English units shall govern. Where noted, specifications of the USDA Natural Resources Conservation Service shall supplement the ODOT specifications.*

## BENCHMARK DESCRIPTION

*BM# 1*
*The station is 403+00. Benchmark is the top of a property pin.*

*Elevation: 931.38'*
*Northing: 202550.5060'*
*Easting: 1793220.6410'*

*(Coordinates are NAD1983 Ohio State Plane North)*

DESIGNED DJB 12/22 CHECKED
DRAWN DJB 12/22 REVIEWED

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

CHANCEL GATE

1
7

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1–800–362–2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON–MEMBERS
MUST BE CALLED DIRECTLY


PLAN JOINTLY PREPARED BY:

DELAWARE SOIL AND WATER CONSERVATION DISTRICT
557A SUNBURY RD
DELAWARE, OHIO 43015
PHONE: (740)368–1921 EXT.4 FAX: (740)369–8321

DELAWARE COUNTY ENGINEER'S OFFICE
50 CHANNING STREET
DELAWARE, OHIO 43015
PHONE:(740) 833–2400 FAX: (740)833–2399


| CONSTRUCTION & MATERIAL SPECIFICATIONS | | | | SUPPLEMENTAL SPECIFICATIONS |
|---|---|---|---|---|
| OHIO DEPARTMENT OF TRANSPORTATION | | USDA NATURAL RESOURCES CONSERVATION SERVICE | | |
| DELAWARE COUNTY ENGINEER | | CONSTRUCTION | | |
| 202 | Tile Destruction in Place | 326 | Clearing & Snagging | |
| 611 | Pipe Culverts, Sewers, Drains, & Drainage Structures | 410 | Grade Stabilization Structure | |
| 659 | Seeding & Mulching | 484 | Mulching | SPECIAL PROVISIONS |
| 707 | Steel, Aluminum, and Plastic Pipe | 606 | Subsurface Drain | |
| | | 608 | Grassed Waterway | Tile Connection |
| | | 610 | Surface Drain | |
| | | 620 | Underground Outlet | |
| | | | | |

CHANCEL GATE
DRAINAGE IMPROVEMENT PROJECT
DELAWARE COUNTY ENGINEER
DELAWARE COUNTY, OH

APPROVED _____
DATE 4/23/25 COUNTY ENGINEER

APPROVED _____
DATE _____ COUNTY COMMISSIONER

APPROVED _____
DATE _____ COUNTY COMMISSIONER

APPROVED _____
DATE _____ COUNTY COMMISSIONER

# 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. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

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

11. 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.

12. 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.

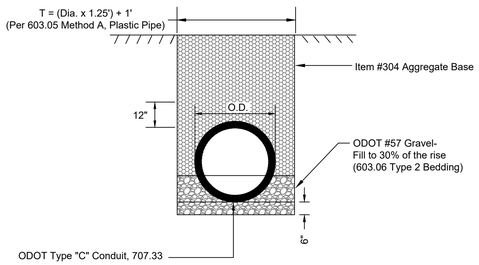
13. Scale bars as shown on the Plan Views shall be considered to be accurate for surveyed features including, but not necessarily limited to, project centerline, tile lines, and benchmark locations. Property lines, drive centerlines, building footprints, and road centerlines as shown on the Plan Views 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.

14. 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.

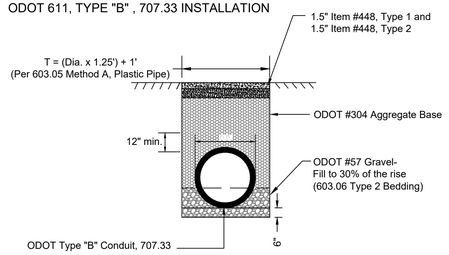
15. Marked utilities will be potholed prior to construction to verify elevations and locations to avoid conflict with designed improvements.

# SUBSURFACE DRAIN (NRCS #606)

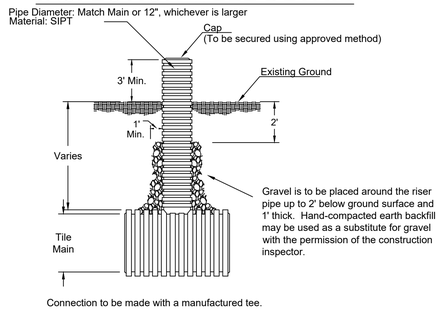
STONE DRIVE, SINGLE PIPE
ODOT 611, TYPE "B" GRAVEL DRIVE, 707.33 INSTALLATION




DRIVE CUT INSTALLATION DETAIL
ODOT 611, TYPE "B" , 707.33 INSTALLATION




# INSPECTION WELL DETAIL




NOT TO SCALE

**CHANCEL GATE**
**DRAINAGE IMPROVEMENT PROJECT**
**ENGINEERING DRAWINGS**

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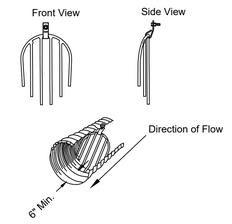
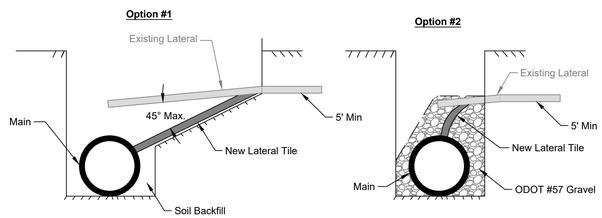
ANIMAL GUARD

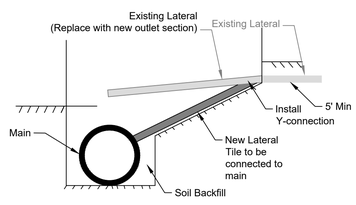



TYPICAL SUBSURFACE DRAIN LATERAL CONNECTION DETAILS (NRCS #606)
NOT TO SCALE

LATERALS WITH NO EXISTING SURFACE OUTLET




LATERALS WITH EXISTING SURFACE OUTLET




**NOTES**
1. All tile shall be placed according to the Typical Subsurface Drain Installation Detail and the requirements of NRCS Specification #606.

2. Removal of residual lateral tile regardless of size and/or material shall be considered part of the payment for this item.

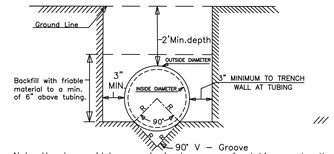
3. All connections shall be done using manufactured connectors.

4. Any quantity of gravel used to make connections utilizing Option #2 shall be considered part of the payment for this item. Determining the quantity of gravel needed for making connections using this option shall be the sole responsibility of the contractor. Cleanup of gravel stockpile areas shall be as per the requirements of ODOT CMS 104.04.

5. The contractor shall note on a dedicated copy of the plans, as provided by the construction inspector, the station, size, material, and connection option used to make all lateral connections.

6. Lateral types regarding having or not having a surface outlet will be marked by the construction inspector.

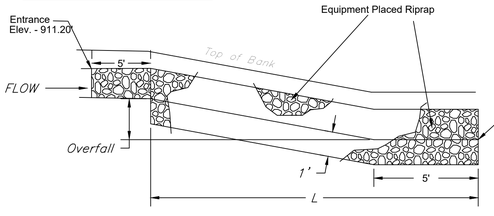
NRCS 606 PIPE INSTALLATION DETAIL



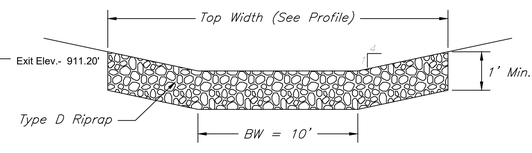

Note: Use trapezoidal or semi-circular groove for tubing greater than 8" diameter. Trenching shall comply with OSHA Std.1926 Subpart P

# Grade Stabilization Structure (NRCS 410) - STA 112+00 - STA 111+87

ROCK PAD INSTALLATION



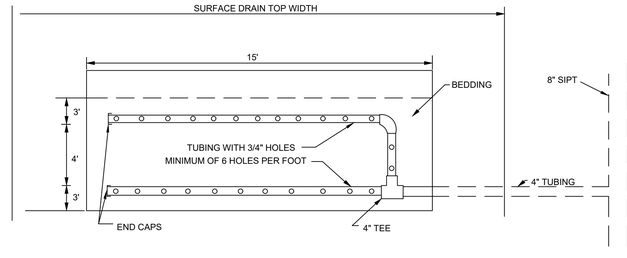

Profile Along CL of Rock Pad
(NOT TO SCALE)



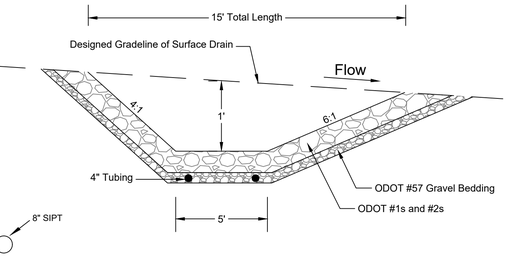

Typical Cross Section
(NOT TO SCALE)

# Blind Inlet (NRCS #620) - STA 100+20

Typical Plan View
(NOT TO SCALE)




Typical Profile View
(NOT TO SCALE)




# 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.

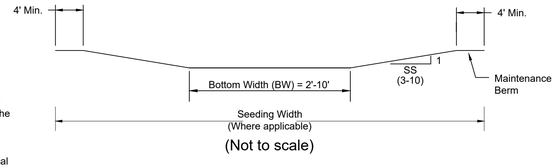
# Surface Drain (NRCS 608)

**NOTES:**
1. Where specified on the plans, the surface drain is to be seeded as stated in the construction notes and ODOT Specification #659. Any modifications to this seed mixture as stated in this Specification must be approved by the construction inspector prior to seed application.

2. Side slopes may be modified to fit site specific conditions at the discretion of the construction inspector.

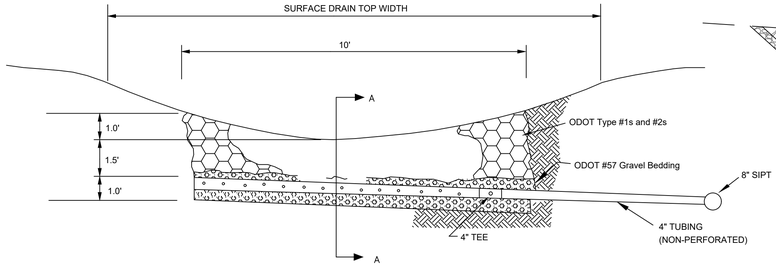
3. All spoil from within the typical surface drain cross section shall be disposed of according to the specifications of NRCS #608 - Surface Drainage Main.

TYPICAL SURFACE DRAIN SWALE CROSS SECTION




(Not to scale)

Typical Cross Section
(NOT TO SCALE)



**CHANCEL GATE**
**DRAINAGE IMPROVEMENT PROJECT**
**ENGINEERING DRAWINGS**

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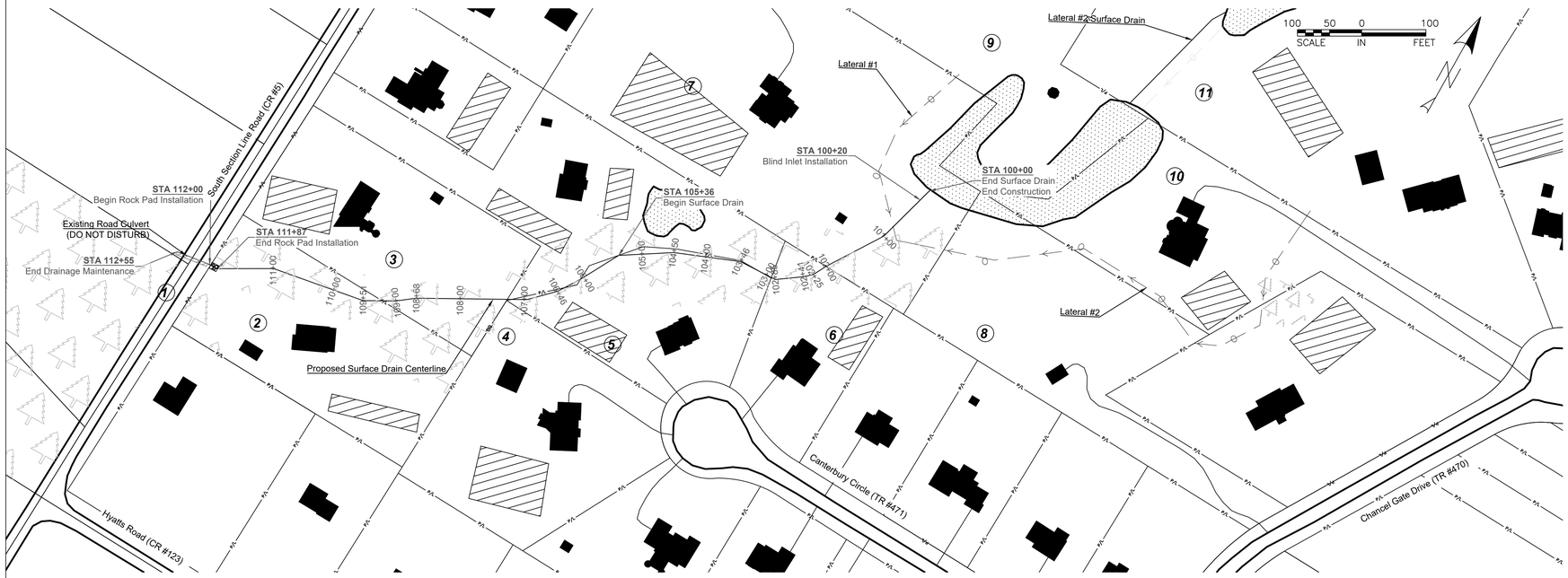
## MAIN PLAN VIEW – SURFACE DRAIN

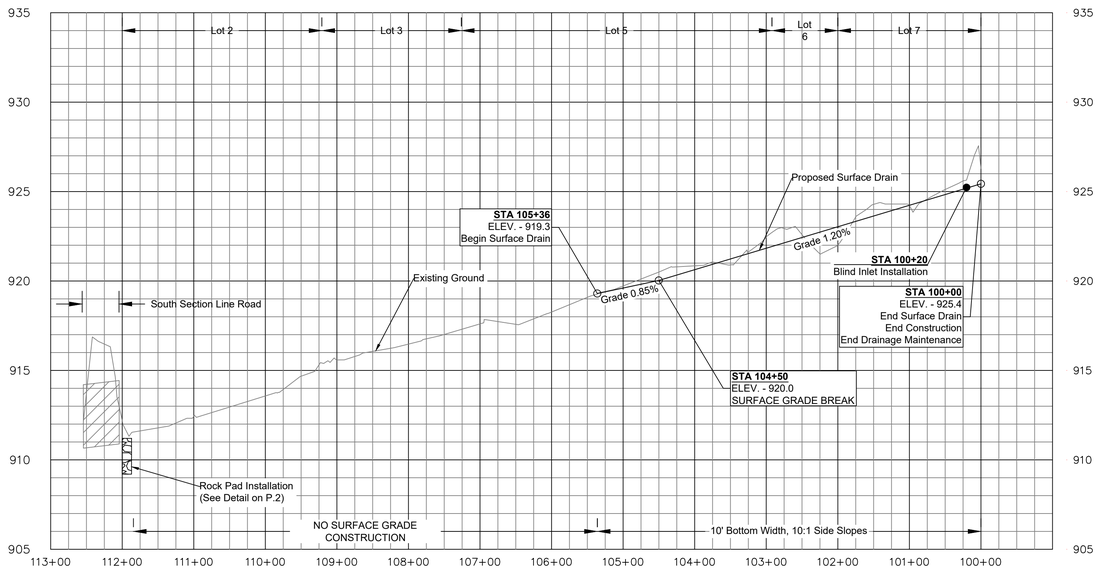



LEGEND

- Existing SSD
- Proposed Mains
- Building
- Septic System
- Pond
- Woodlands
- Road
- Driveway
- Benchmark

| Lot | Owner | Address | Parcel Number |
|---|---|---|---|
| 1 | Dedicated Road Right of Way | South Section Line Rd | 99999907000000 |
| 2 | Subhajit Datta | 6275 South Section Line Rd | 41933002026000 |
| 3 | Christopher Mampe | 6235 South Section Line Rd | 41933002025000 |
| 4 | Daniel & Deborah Saliaris | 4783 Canterbury Circle | 41933002042000 |
| 5 | Kami & Said Atiyeh | 6205 South Section Line Rd | 41933002024000 |
| 6 | Tom & Amy Ailabouni | 4756 Canterbury Circle | 41933002044000 |
| 7 | Douglas & Michele Grout | 6115 South Section Line Rd | 41933002020001 |
| 8 | Stephen Corvi | 6138 Chancel Gate Dr | 41933002048001 |
| 9 | Paula & Gochev Alexander | 6101 South Section Line Rd | 41933002019000 |
| 10 | Tamara East | 6074 Chancel Gate Dr | 41933002048003 |
| 11 | David & Sabrina Reno | 6066 Chancel Gate Dr | 41933002048004 |

## MAIN SURFACE DRAIN




**CONSTRUCTION NOTES**

1. All General Construction Notes on P. 2 of 7 shall apply.

2. Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from the site. Payment for export of debris shall be considered as incidental to payment for NRCS Item #326.

3. Details to be referenced on p. 2 of 7:
   - Typical Surface Drain Cross Section
   - Blind Inlet Installation
   - Rock Pad Installation

4. All spoil is to be exported from the site per General Construction Note #5. Payment for spoil export shall be considered as incidental to payment for NRCS Items #582 and #608.

| Main | | | |
|---|---|---|---|
| Item | Description | Quantity | Unit |
| SPECIAL | Utility Relocation | LUMP | |
| NRCS 326 | Clearing & Snagging | LUMP | |
| NRCS 410 | Grade Stabilization Structure - Rock Pad | 1 | Each |
| NRCS 606 | 8" Pipe, Non-Perforated (ODOT 707.33) | 771 | Lineal Feet |
| NRCS 606 | 10" Pipe, Non-Perforated (ODOT 707.33) | 258 | Lineal Feet |
| NRCS 606 | 15" Pipe, Non-Perforated (ODOT 707.33) | 156 | Lineal Feet |
| NRCS 606 | 15" Animal Guard | 1 | Each |
| NRCS 606 | Tile Inspection Well | 5 | Each |
| NRCS 608 | Surface Drain - Swale | 536 | Lineal Feet |
| NRCS 620 | Underground Outlet - Blind Inlet | 1 | Each |
| ODOT 659 | Seeding & Mulching, Class 1, no anchoring | 4,200 | Square Yards |

**CHANCEL GATE**
**DRAINAGE IMPROVEMENT PROJECT**
**ENGINEERING DRAWINGS**

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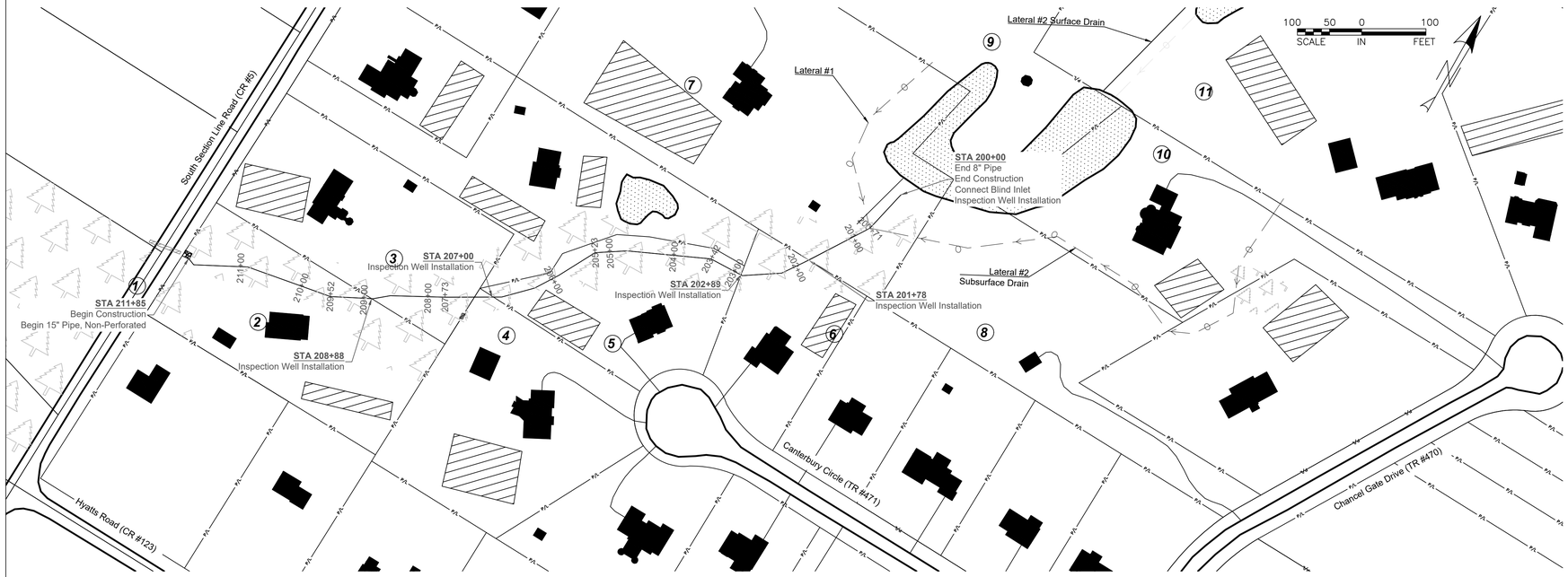
## MAIN PLAN VIEW – SUBSURFACE DRAIN







| Lot | Owner | Address | Parcel Number |
|---|---|---|---|
| 1 | Dedicated Road Right of Way | South Section Line Rd | 99999907000000 |
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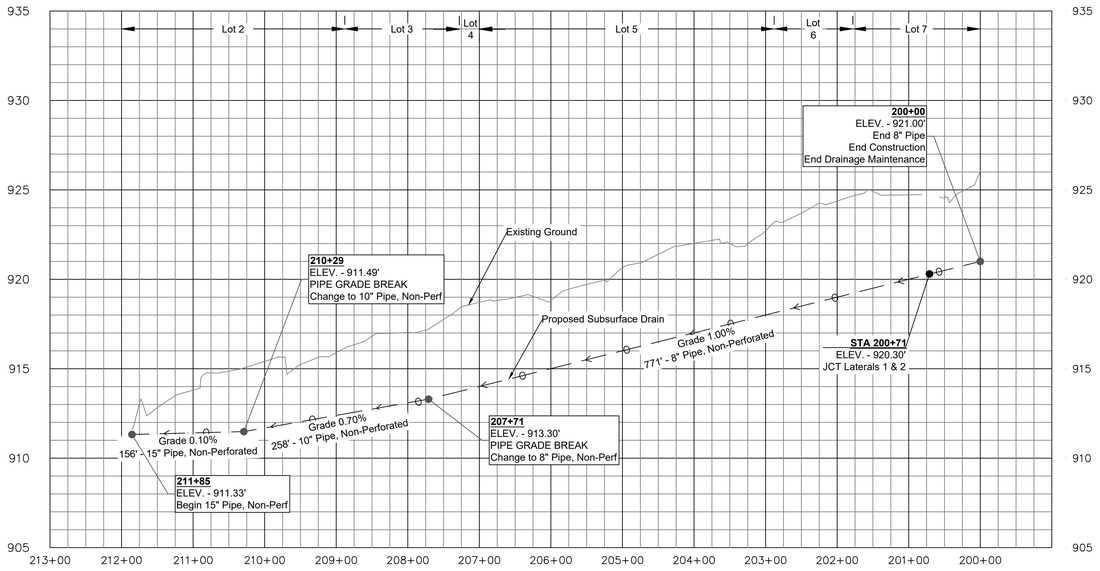
## MAIN SUBSURFACE DRAIN




**CONSTRUCTION NOTES**

1. All General Construction Notes on P. 2 of 7 shall apply.

2. Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from the site. Payment for export of debris shall be considered as incidental to payment for NRCS Item #326.

3. Details to be referenced on p. 2 of 7:
   - Typical Surface Drain Cross Section
   - Typical Subsurface Drain Installation
   - Typical Subsurface Drain Lateral Connection
   - Inspection Well Installation

4. All spoil is to be exported from the site per General Construction Note #5. Payment for spoil export shall be considered as incidental to payment for NRCS Items #582 and #608.

| Main | | | |
|---|---|---|---|
| Item | Description | Quantity | Unit |
| SPECIAL | Utility Relocation | LUMP | |
| NRCS 326 | Clearing & Snagging | LUMP | |
| NRCS 410 | Grade Stabilization Structure - Rock Pad | 1 | Each |
| NRCS 606 | 8" Pipe, Non-Perforated (ODOT 707.33) | 771 | Lineal Feet |
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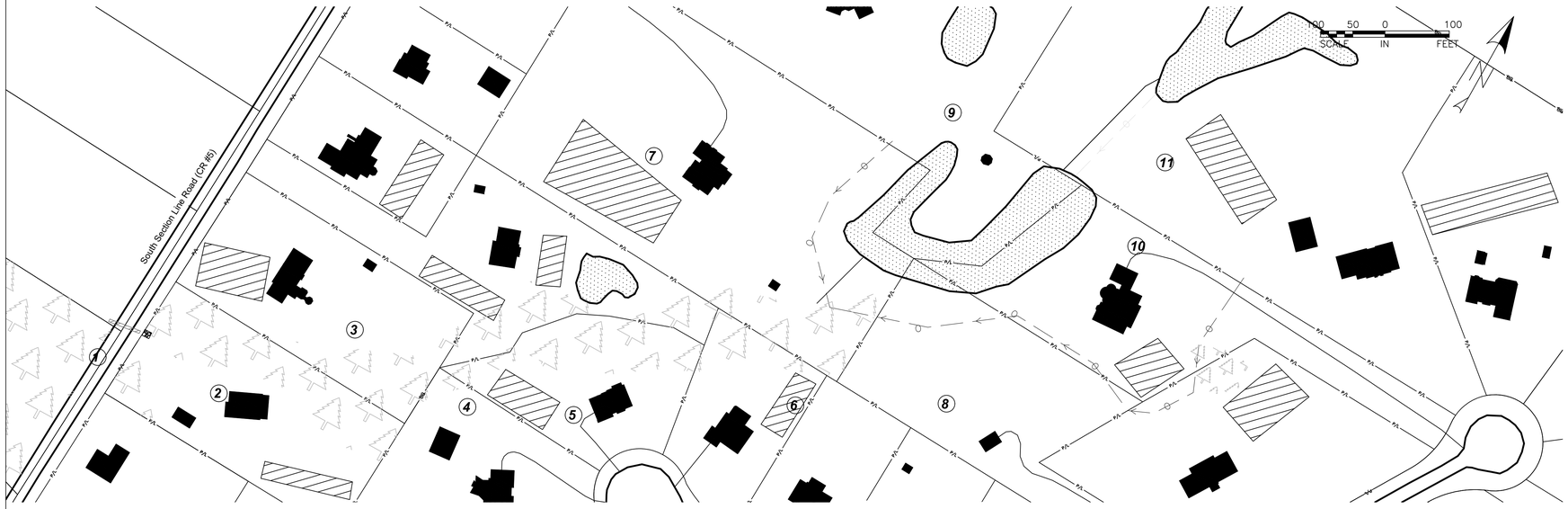
| NRCS 606 | Tile Inspection Well | 5 | Each |
| NRCS 608 | Surface Drain - Swale | 536 | Lineal Feet |
| NRCS 620 | Underground Outlet - Blind Inlet | 1 | Each |
| ODOT 659 | Seeding & Mulching, Class 1, no anchoring | 4,200 | Square Yards |

# LATERALS PLAN VIEW




**CHANCEL GATE**
**DRAINAGE IMPROVEMENT PROJECT**
**ENGINEERING DRAWINGS**

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LEGEND

- Existing SSD
- Proposed Mains
- Building
- Septic System
- Pond
- Woodlands
- Road
- Driveway
- Benchmark

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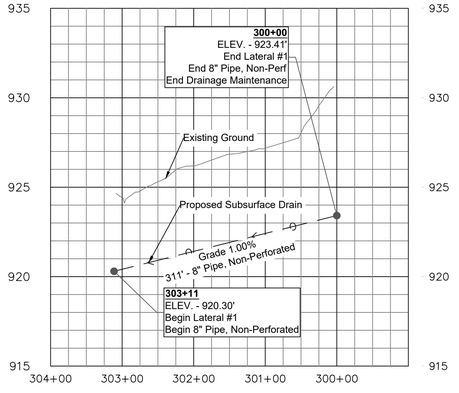
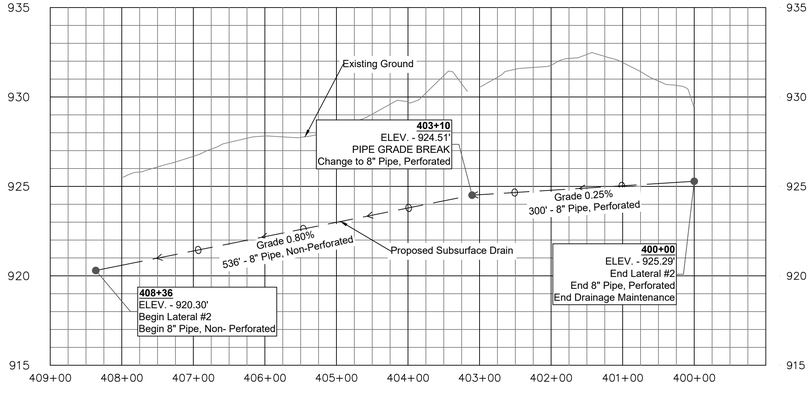
| 5 | Kami & Said Atiyeh | 6205 South Section Line Rd | 41933002024000 |
| 6 | Tom & Amy Ailabouni | 4756 Canterbury Circle | 41933002044000 |
| 7 | Douglas & Michele Grout | 6115 South Section Line Rd | 41933002020001 |
| 8 | Stephen Corvi | 6138 Chancel Gate Dr | 41933002048001 |
| 9 | Paula & Gochev Alexander | 6101 South Section Line Rd | 41933002019000 |
| 10 | Tamara East | 6074 Chancel Gate Dr | 41933002048003 |
| 11 | David & Sabrina Reno | 6066 Chancel Gate Dr | 41933002048004 |

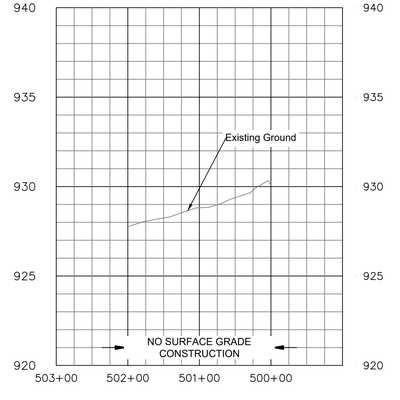
# LATERAL #1 SUBSURFACE DRAIN




# LATERAL #2 SUBSURFACE DRAIN




# LATERAL #2 SURFACE DRAIN




**CONSTRUCTION NOTES**

1. All General Construction Notes on P. 2 of 7 shall apply.
2. Clearing and snagging will be performed within the limits of the channel and swale construction as per the instructions in the General Construction Notes. All debris from clearing and snagging is to be exported from the site. Payment for export of debris shall be considered as incidental to payment for NRCS Item #326.
3. Details to be referenced on p. 2 of 7:
   - Subsurface Drain Installation
   - Subsurface Lateral Connections
   - Inspection Well Installation

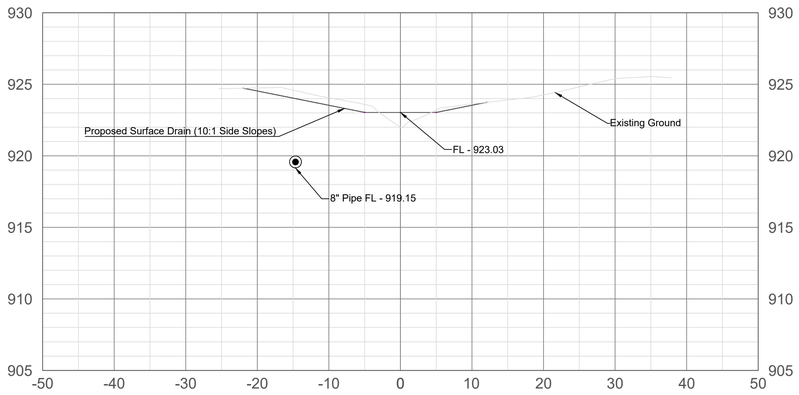
| **Lateral #1** | | | |
|---|---|---|---|
| Item | Description | Quantity | Unit |
| NRCS 326 | Clearing & Snagging | LUMP | |
| NRCS 382 | Fence Gate | 2 | Each |
| NRCS 606 | 8" Pipe, perforated (ODOT 707.33) | 311 | Lineal Feet |
| NRCS 606 | Tile Inspection Well | 1 | Each |
| ODOT 202 | Fence for Removal | 100 | Lineal Feet |
| ODOT 659 | Seeding & Mulching, Class 1, no anchoring | 750 | Square Yards |
| **Lateral #2** | | | |
| Item | Description | Quantity | Unit |
| SPECIAL | Utility Relcoation | LUMP | |
| NRCS 326 | Clearing & Snagging | LUMP | |
| NRCS 606 | 8" Pipe, perforated (ODOT 707.33) | 816 | Lineal Feet |
| NRCS 606 | Tile Inspection Well | 5 | Each |
| ODOT 611 | 8" Pipe (707.33), Type B Installation, Asphalt Drive | 20 | Lineal Feet |
| ODOT 659 | Seeding & Mulching, Class 1, no anchoring | 2,000 | Square Yards |

# CROSS-SECTIONS

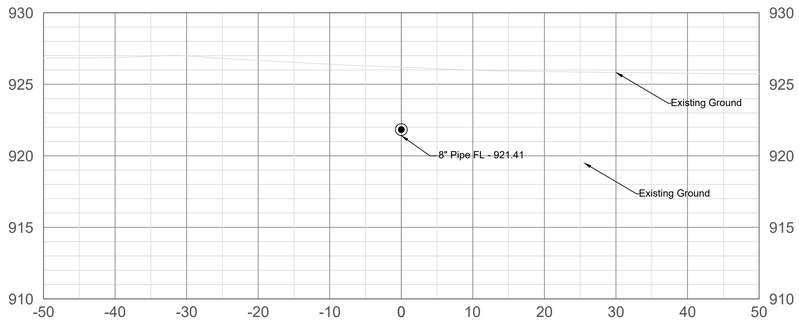
**CHANCEL GATE**
**DRAINAGE IMPROVEMENT PROJECT**
**ENGINEERING DRAWINGS**

6
7

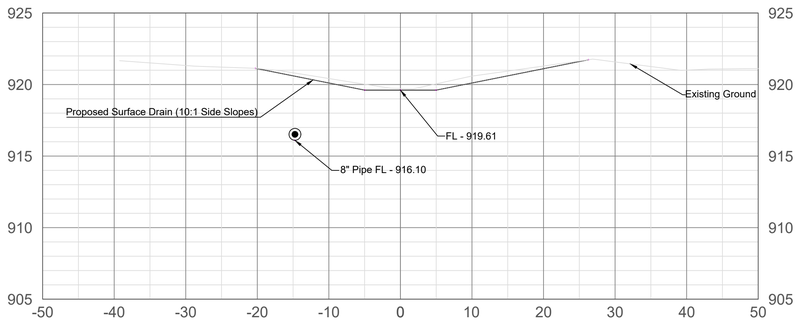
Chancel Gate Main - STA 102+00



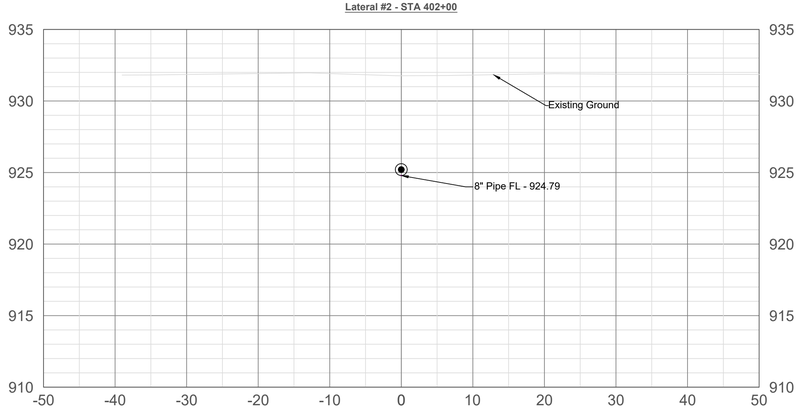

Lateral #1 - STA 302+00



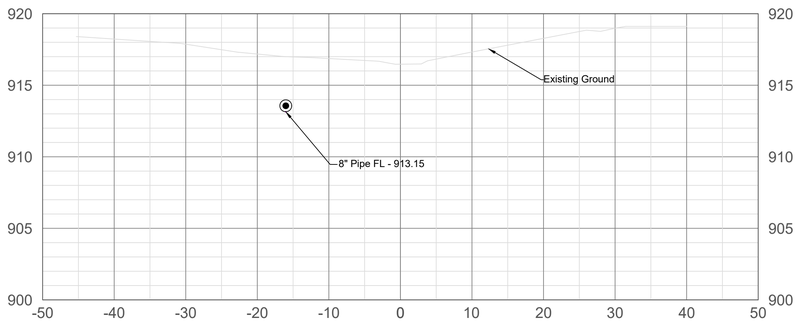

Chancel Gate Main - STA 105+00



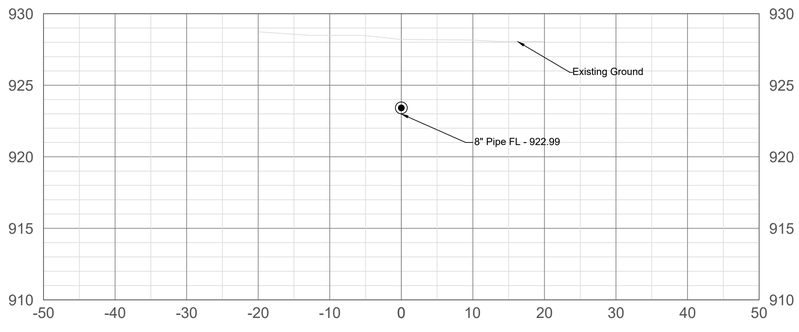

Lateral #2 - STA 402+00



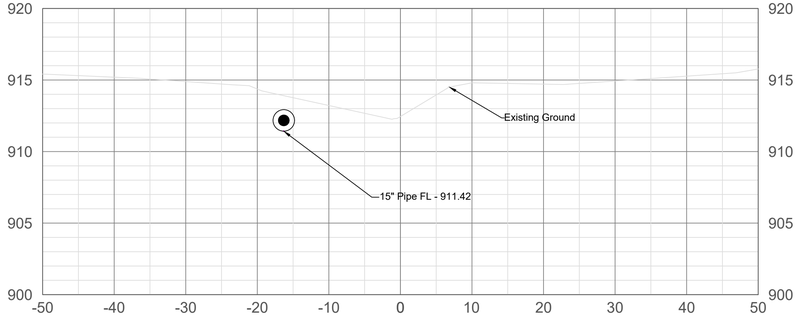

Chancel Gate Main - STA 108+00



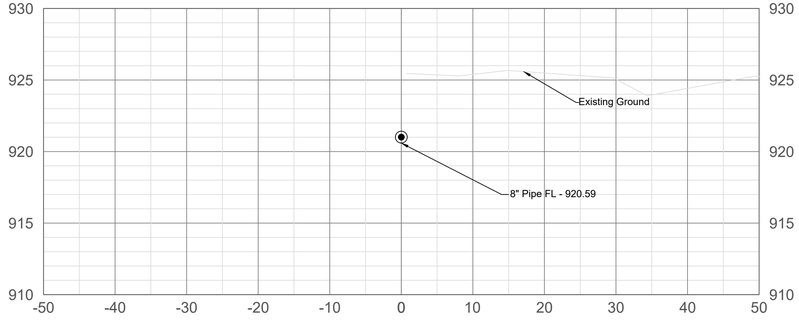

Lateral #2 - STA 405+00




Chancel Gate Main - STA 111+00



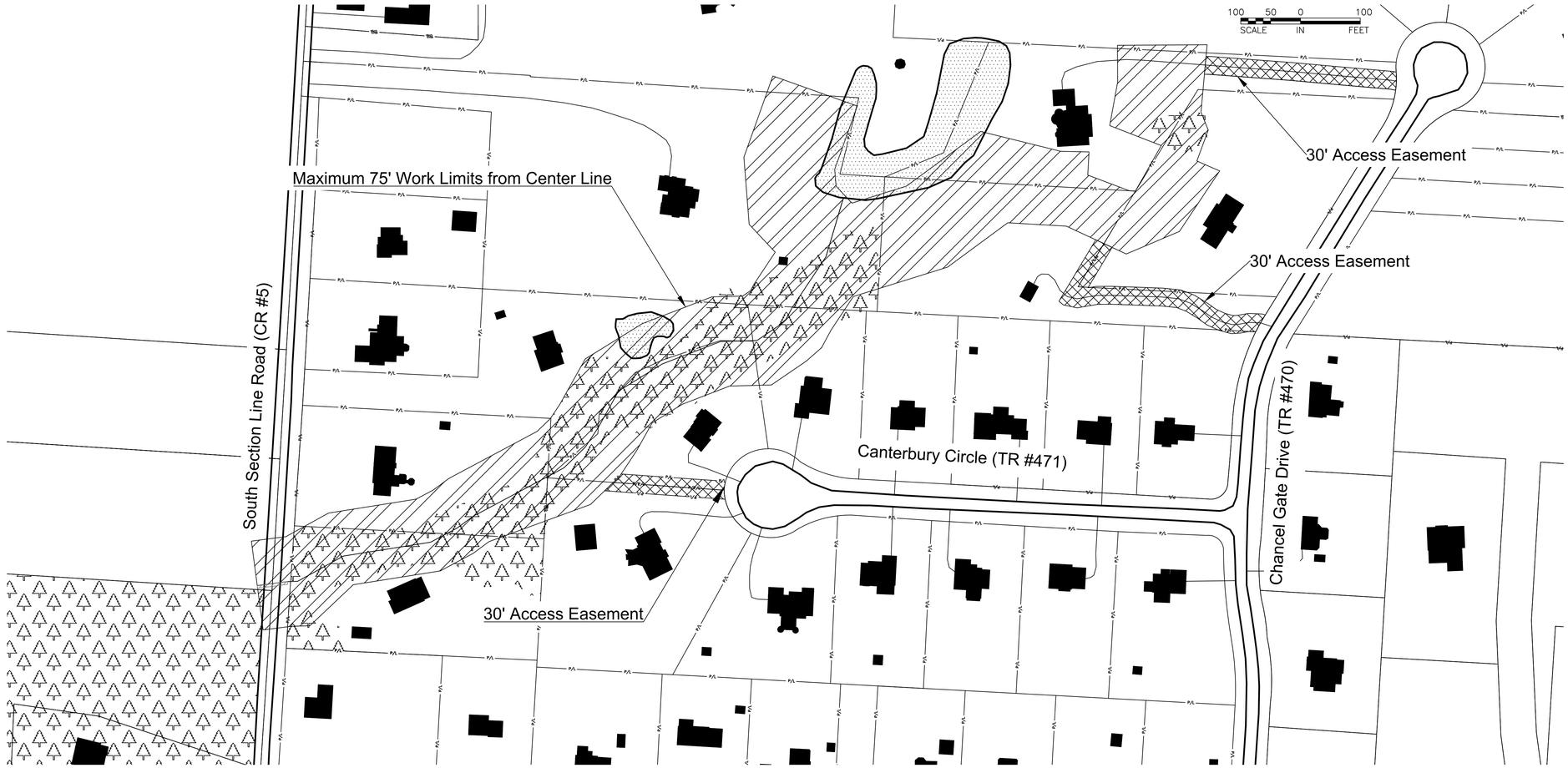

Lateral #2 - STA 408+00



# EASEMENTS & WORK LIMITS

**CHANCEL GATE**
**DRAINAGE IMPROVEMENT PROJECT**
**ENGINEERING DRAWINGS**

7
7





LEGEND

- Existing SSD
- Proposed Mains
- Building
- Septic System
- Pond
- Woodlands
- Road
- Driveway
- Benchmark