

ERIE COUNTY WATER AUTHORITY

INTEROFFICE MEMORANDUM

September 20, 2021

TO: Terrence McCracken, Secretary to the Authority

Mark S. Carney, Esq., Attorney

FROM: Steven W. Denzler, P.E., LEED BD&C SWD

SUBJECT: Large Culvert Replacements & Rehabilitation, NY Routes 18, 62, 93, 104,

270, 277, US Route 20, & I-990, Towns of Porter, Lewiston, Lockport,

Hartland, Newstead, Amherst, Cheektowaga, West Seneca and

Orchard Park

Erie and Niagara Counties

PIN 5813.11

ECWA File No.: HWNY-492-2101

ECWA Proj. No.: 202100180

The attached referenced documents are prepared by the New York State Department of Transportation (NYSDOT) because they will be performing roadway improvements that will impact ECWA facilities. NYSDOT will be relocating waterline on multiple routes as a part of this project. The NYSDOT will do the identified adjustments to ECWA facilities at no cost to the Authority. The HC 140 and Certified Resolution will confirm the process.

Attached are four (4) copies of the NYSDOT HC 140 form for the above project. A Certified Resolution (4 copies) by the Board and signature of the appropriate Authority Official are required. Four (4) copies of the HC 140 and Certified Resolution are to be returned with original signatures and seals affixed to the NYSDOT per the cover letter. The NYSDOT is requesting return of the documents by October 7, 2021.

The HC 140 references two items that must be included in the ECWA Board Resolution:

"Granting the State of New York authority to perform the adjustment for the owner" and "agreeing to maintain facilities adjusted via State-let contract."

(The specific reference is identified in Section VI of the HC140, page 4 of 4.)

If there are any questions, please contact me.

SWD: lal

ERIE COUNTY WATER AUTHORITY AUTHORIZATION FORM

For Approval/Execution of Documents (check which apply)

| Contract: Project No.: 202100 Project Description: Large Culvert Replacements & Rehabilitation, NY 270, 277, US Route 20, & I-990, Various Towns & Villages, Erie & Niag | Y Routes 18, 62, 93, 104, |
|---|-----------------------------------|
| Item Description: Agreement Professional Service Contract Amendment BCD X NYSDOT Agreement HC140 Contract Document Recommendation for Award of Contract Recommendation Request for Proposals Other | |
| Action Requested: X Board Authorization to Execute X Legal Approval Board Authorization to Award Execution by the Cl Board Authorization to Advertise for Bids Execution by the Se Board Authorization to Solicit Request for Proposals Other | hairman ecretary to the Authority |
| Approvals Needed: APPROVED AS TO CONTENT: X Sr Distribution Engineer X Chief Operating Officer X Executive Engineer Director of Administration Risk Manager X Chief Financial Officer X Legal APPROVED FOR BOARD RESOLUTION: X Secretary to the Authority | Date: |
| Remarks: Relocation of ECWA waterlines under contract item | |

Item No:

Resolution Date:



KATHY HOCHUL Governor

MARIE THERESE DOMINGUEZ

Commissioner

FRANK P. CIRILLO, SR/WA Regional Director

September 2, 2021

Leonard F. Kowalski, P.E., Executive Engineer Erie County Water Authority 3030 Union Road Cheektowaga, New York 14227

RE: LARGE CULVERT REPLACEMENTS AND REHABILITATIONS
NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20, & I-990
TOWNS OF PORTER, LEWISTON, LOCKPORT, HARTLAND,
NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA, ORCHARD PARK
ERIE AND NIAGARA COUNTIES
PIN 5813.11, D264625

Dear Mr. Kowalski:

Enclosed is an electronic copy of the proposed contract plans for the above-referenced project. Erie County Water Authority has existing facilities within the project limits. Erie County Water Authority's involvement in this project consists of relocation of waterlines. The details of the adjustment are shown in the project plans included with this letter.

Also enclosed is the Utility Work Agreement (HC-140) and the Coordination with the Utility Schedule note. Each of the four (4) HC-140 forms must be duly approved by an authorized representative of Erie County Water Authority. Work included in the State's contract and performed by the State contractor will be done at no expense to the Erie County Water Authority.

The HC-140 agreement requires four (4) copies of a Certified Resolution by your governing body. Enclosed is a sample of the Certified Resolution for this agreement. The resolution is required before the agreement can approved by the Erie County Water Authority. Each copy of the resolution must be signed and have a seal affixed to it.

Please return the four (4) original (hard-copy) sets of the HC-140 agreement signed by the authorized representative, Coordination with the Utility Schedule note, and Certified Resolution, to NYSDOT, Attn: Regional Utilities Unit, 100 Seneca Street, Buffalo, New York 14203 no later than October 7, 2021. One (1) copy of the executed agreement will be returned for your records.

Any questions regarding the work to be done can be directed to Robert Ambrose, Design Job Manager (DJM), at (716) 847-5279 or via e-mail at Robert.Ambrose@dot.ny.gov. Questions regarding these forms can be directed to Ronald Rolling, Regional Utility Engineer, at (716) 847-3954 or via e-mail at Ronald.Rolling@dot.ny.gov.

Leonard F. Kowalski, P.E., Executive Engineer PIN 5813.11 September 2, 2021 Page 2 of 2

Sincerely,

Renjit P. James, P.E.

Acting Assistant Regional Design Engineer

By:

Ronald W. Rolling, P.E. Regional Utility Engineer

RPJ/RWR/EJSC/AJP/jlg

Enclosures: Project Plans, Utility Work Agreement (HC-140), Coordination with the Utility Schedule note, and sample Certified Resolution

Since the construction, reconstruction, or maintenance of the transportation project described below, identified as:

| Project Identification No.: 5813.11 | F.A. Project No.: |
|-------------------------------------|----------------------------|
| ROW Declaration No.: | Map Nos.: |
| Parcel Nos.: | County of Erie and Niagara |
| Contract No.: D264625 | |

Project Description: LARGE CULVERT REPLACEMENTS AND REHABILITATIONS

NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20, & I-990 TOWNS OF PORTER, LEWISTON, LOCKPORT, HARTLAND, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA,

ORCHARD PARK

ERIE AND NIAGARA COUNTIES

State - Municipality, Reimbursable by Items and Labor Exchange (ILE)

necessitates the adjustment of utility facilities as hereinafter described, the owner, **Erie County Water Authority**, of said facilities herewith agrees with the State of New York acting through the Commissioner of Transportation that this agreement shall apply to the accommodation of these utility facilities. Any adjustment of said facilities will be accomplished under the terms of this agreement, in accordance with the Rules and Regulations Governing the Accommodation of Utilities within the State Highway Right-of-Way, in compliance with the attached Special Note, "Coordination with the Utility Schedule", and in accordance with the contract plans, specifications, proposal, amendment(s) or change order(s).

I. Existing Facilities (describe type, size, capacity, location, etc.)

Erie County Water Authority has existing facilities and their location(s) below:

Site 2, C530038; Relocation - Existing waterline within the highway boundary of NY 93.

Site 4, C530075; Relocation - Existing waterline within the highway boundary of NY 277.

Site 5, C530008; Slip Line – Existing waterline within the highway boundary of US 20.

presently located on **NY State Right-of-Way** as shown on the plans for the proposed transportation project are to be adjusted as follows: (describe type, size, capacity, location, etc.)

Site 2, C530038; Relocation of 8" waterline

Site 4, C530075; Relocation of 24" waterline.

per contract documents

for an estimated \$ N/A

II.

NEW YORK STATE DEPARTMENT OF TRANSPORTATION UTILITY WORK AGREEMENT

| Fin | ancial Responsibility (check appropriate boxes): |
|-------------|--|
| | The facilities to be adjusted under the terms of this agreement are subject to Section 52 of the State Highway Law, and the cost of this adjustment is the sole responsibility of the owner. |
| \boxtimes | Subdivision 24 of Section 10 of the State Highway Law enables the Commissioner of Transportation to provide, at the expense of the State, for adjustment to a municipally owned utility when such work is necessary as a result of State highway work. (Municipal Agreement if required.) |
| | Subdivision 24-b of Section 10 of the State Highway Law enables the Commissioner of Transportation to participate in the necessary expenses incurred for adjustment of privately, publicly, or cooperatively owned facilities, municipal utility facilities, or facilities of a corporation organized pursuant to the State Transportation Corporations Law. (Privately Owned Property Agreement or Reimbursement Agreement required.) |
| | Subdivision 27 of Section 10 of the State Highway Law enables the Commissioner of Transportation, upon the request of a municipality, to perform for and at the expense of such municipality specified work to be included within a State-let contract. (Betterment Resolution required.) |
| | Subdivision 33 of Section 10 of the State Highway Law enables the Commissioner of Transportation, upon the request of a public utility corporation, to perform for and at the expense of such public utility corporation specified work to be included within a State-let contract. |
| | Subdivision 13 of Section 30 of the State Highway Law enables the Commissioner of Transportation to enter into an agreement to reimburse with public funds the owner for necessary expenses incurred as a result of this adjustment, or to replace the facilities in kind. |
| | The owner will develop and keep a record of costs in accordance with the New York State Department of Transportation (NYSDOT) Reimbursement Procedures, and when federal funds participate in the cost, the Federal Highway Administration (FHWA) Federal-Aid Policy Guide Part 645, or as indicated below: |
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| | |

| III . | Physic | al Adjustment Method (check appropriate boxes): | | | |
|--------------|--|---|--|--|--|
| | The act | tual adjustment or design engineering will be performed by the following method (s): | | | |
| | \boxtimes | Contract let by the Commissioner. | | | |
| | | Contract let by the Owner. (check applicable statement, i.e., a or b) | | | |
| | | a. Best Interests of State. | | | |
| | | b. Utility not sufficiently staffed or equipped. | | | |
| | | By the Owner's forces. | | | |
| IV. | Betterr | nent, Salvage, and Depreciation Credits Due the Project (check appropriate boxes): | | | |
| | ∑ There will be no extension of service life, improved capacity, nor any other betterment of the facility (as defined by the NYSDOT Utility Reimbursement Procedures and by FHWA Federal-Ai Policy Guide Part 645) as a result of the adjustments made pursuant to this agreement. | | | | |
| | ☐ The | ere is betterment described as follows: | | | |
| | | | | | |
| | | | | | |
| | | The owner will not claim reimbursement for that betterment portion of the work, but will duly account for it as required by applicable NYSDOT and FHWA procedures. | | | |
| | | The owner hereby agrees to deposit with the Comptroller of the State of New York the amount of \$ to cover the cost of the betterment as described above. | | | |
| | | The owner agrees to comply with the requirements of the NYSDOT Utility Reimbursement Procedure and FHWA Federal-Aid Policy Guide Part 645 with the respect to salvage and depreciation credits when applicable. | | | |
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V. General Covenants

The owner hereby agrees to accept full title and responsibility for the adjusted facility in writing upon satisfactory completion of the work. Such acceptance will acknowledge the owner's responsibility to maintain the facility in accordance with all applicable codes, standards and regulations, including his obligation, where applicable, to remove any or all of the facility from the highway at the order of the Commissioner of Transportation, all in accordance with the Rules and Regulations Governing the Accommodation of Utilities within the State Highway Right-of-Way. All compensable claims covered by this agreement will be included in one of the following:

- A. Privately Owned Property Agreement executed prior to the performance of the work.
- B. Municipal Agreement executed prior to performance of the work.
- C. Reimbursement Agreement executed prior to performance of the work.
- D. Such other agreement as approved by NYSDOT Office of Legal Affairs.

VI. References

| The following documents a appropriate boxes) | are herewith incorporated | I in this agreement be r | eference (check |
|---|------------------------------|----------------------------|------------------------------|
| | inistration's Federal-Aid | Policy Guide Part 645. | |
| ☐ Contract documents: | Contract Number | D264625 | |
| | PIN: 5813.11 | | |
| | Plan Sheets No.: Elect | ronic copy of the propo | sed contract plans |
| Owner's Plan Sheets | | | |
| Owner's Estimate She | ets Form No. FIN 223c | | |
| Resolution dated | , by | | |
| ☐ Granting the State | of New York authority to | perform the adjustmen | t for the owner. |
| □ Agreeing to maintage □ | in facilities adjusted via S | State-let contract. | |
| Authorizing deposit | of funds by the owner. | | |
| □ Certification by the ow | ner or his agent that he l | nas the legal authority to | o enter into this agreement. |
| | | | |
| | | | |
| Print/Type Name) Owner or A | gent (Signature) | Title | Date |
| | | | |
| | State | ewide Utility Engineer | |
| Neil Sergott, P.E. For the NYSDOT Commission | | Title | Date |

SPECIAL NOTE

COORDINATION WITH THE UTILITY SCHEDULE

The contractor must coordinate their schedule of operations with the various utility owners involved with the project and shall verify utility information found in the contract documents. Utility revisions required by the various utility owners in connection with this project include:

The Erie County Water Authority

Utility Owner's Field Contact:

Leonard F. Kowalski, P.E., Executive Engineer Erie County Water Authority 3030 Union Road Cheektowaga, New York 14227

D: (716) 685-8220

O: (716) 684-1510

C: (716) 341-1137

F: (716) 684-8397

Ikowalski@ecwa.org

Erie County Water Authority has the following existing facilities at these locations:

Site 2, C530038; Relocation – Existing waterline within the highway boundary of NY 93.

Site 4, C530075; Relocation – Existing waterline within the highway boundary of NY 277.

Site 5, C530008; Slip Line – Existing waterline within the highway boundary of US 20.

Reimbursable work to be done by the State's contractor:

The project requires the following work to be done at these locations, per details in the contract documents:

Site 2, C530038; Relocation of 8" waterline

Site 4, C530075; Relocation of 24" waterline.

The work is to be done by the State's contractor and paid by contract items.

The State's Engineer-In-Charge, in coordination with the State's contractor, shall notify the Erie County Water Authority in writing <u>2 weeks</u> before commencing work on their facilities at each location and for each occurrence of work.

The State's Engineer-In-Charge will provide record plans to the Erie County Water Authority.

Additional Notes

- 1. The Contractor is governed by and must adhere to the provisions of 16 NYCRR Part 753 (Protection of Underground Facilities).
- The State's contractor shall verify utility information found in the contract documents.
 The State's contractor shall notify the State's Engineer-In-Charge of any discrepancies that are found.
- In addition to the above-itemized facility adjustments, other adjustments may become
 necessary during the construction phase as a result of more precise location data or
 other changes that might develop.
- 4. The Standard Specifications shall apply to all utility facility adjustments.
- 5. Any additional adjustments shall be performed by the utility owners and/or the State's contractor upon direction by the State's Engineer-In-Charge.
- 6. Notify the utility owner's field contact identified in this note three (3) business days prior to beginning work near the utility owner's facilities. Particularly if there will be incursion into the facilities' tolerance zone.
- 7. Any unintentional contact with a utility facility must be immediately reported to the utility owner's field contact. The field contact must give approval before work can continue.
- 8. Suitable time frames for additional adjustments shall be coordinated between the State's Engineer-In-Charge, the State's contractor, and the affected utility owners. Such timeframes shall not be included within previously established time frames.

END OF COORDINATION WITH THE UTILITY SCHEDULE

Revised 2021 July 29 - EJSC

HC-140 (6/03) Page 1 of 4

NEW YORK STATE DEPARTMENT OF TRANSPORTATION UTILITY WORK AGREEMENT

Since the construction, reconstruction, or maintenance of the transportation project described below, identified as:

| Project Identification No.: 5813.11 | F.A. Project No.: |
|-------------------------------------|----------------------------|
| ROW Declaration No.: | Map Nos.: |
| Parcel Nos.: | County of Erie and Niagara |
| Contract No.: D264625 | |

Project Description: LARGE CULVERT REPLACEMENTS AND REHABILITATIONS

NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20, & I-990 TOWNS OF PORTER, LEWISTON, LOCKPORT, HARTLAND, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA,

ORCHARD PARK

ERIE AND NIAGARA COUNTIES

State - Municipality, Reimbursable by Items and Labor Exchange (ILE)

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I. Existing Facilities (describe type, size, capacity, location, etc.)

Erie County Water Authority has existing facilities and their location(s) below:

Site 2, C530038; Relocation – Existing waterline within the highway boundary of NY 93.

Site 4, C530075; Relocation - Existing waterline within the highway boundary of NY 277.

Site 5, C530008; Slip Line – Existing waterline within the highway boundary of US 20.

presently located on NY State Right-of-Way as shown on the plans for the proposed transportation project are to be adjusted as follows: (describe type, size, capacity, location, etc.)

Site 2, C530038; Relocation of 8" waterline

Site 4, C530075; Relocation of 24" waterline.

per contract documents

for an estimated \$ N/A

II.

NEW YORK STATE DEPARTMENT OF TRANSPORTATION UTILITY WORK AGREEMENT

| Financial Responsibility (check appropriate boxes): |
|--|
| The facilities to be adjusted under the terms of this agreement are subject to Section 52 of the State Highway Law, and the cost of this adjustment is the sole responsibility of the owner. |
| Subdivision 24 of Section 10 of the State Highway Law enables the Commissioner of Transportation to provide, at the expense of the State, for adjustment to a municipally owned utility when such work is necessary as a result of State highway work. (Municipal Agreement if required.) |
| Subdivision 24-b of Section 10 of the State Highway Law enables the Commissioner of Transportation to participate in the necessary expenses incurred for adjustment of privately, publicly, or cooperatively owned facilities, municipal utility facilities, or facilities of a corporation organized pursuant to the State Transportation Corporations Law. (Privately Owned Property Agreement or Reimbursement Agreement required.) |
| Subdivision 27 of Section 10 of the State Highway Law enables the Commissioner of Transportation, upon the request of a municipality, to perform for and at the expense of such municipality specified work to be included within a State-let contract. (Betterment Resolution required.) |
| Subdivision 33 of Section 10 of the State Highway Law enables the Commissioner of Transportation, upon the request of a public utility corporation, to perform for and at the expense of such public utility corporation specified work to be included within a State-let contract. |
| Subdivision 13 of Section 30 of the State Highway Law enables the Commissioner of Transportation to enter into an agreement to reimburse with public funds the owner for necessary expenses incurred as a result of this adjustment, or to replace the facilities in kind. |
| The owner will develop and keep a record of costs in accordance with the New York State Department of Transportation (NYSDOT) Reimbursement Procedures, and when federal funds participate in the cost, the Federal Highway Administration (FHWA) Federal-Aid Policy Guide Par 645, or as indicated below: |
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| |
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| |

| III. | Phy | sical | Adjustment Method (check appropriate boxes): |
|------|-------------|-------|---|
| | The | actu | al adjustment or design engineering will be performed by the following method (s): |
| | | | Contract let by the Commissioner. |
| | | | Contract let by the Owner. (check applicable statement, i.e., a or b) |
| | | İ | a. Best Interests of State. |
| | | | b. Utility not sufficiently staffed or equipped. |
| | | | By the Owner's forces. |
| IV. | Bet | term | ent, Salvage, and Depreciation Credits Due the Project (check appropriate boxes): |
| | \boxtimes | facil | re will be no extension of service life, improved capacity, nor any other betterment of the ity (as defined by the NYSDOT Utility Reimbursement Procedures and by FHWA Federal-Aid cy Guide Part 645) as a result of the adjustments made pursuant to this agreement. |
| | | The | re is betterment described as follows: |
| | | | |
| | | | The owner will not claim reimbursement for that betterment portion of the work, but will duly account for it as required by applicable NYSDOT and FHWA procedures. |
| | | | The owner hereby agrees to deposit with the Comptroller of the State of New York the amount of \$ to cover the cost of the betterment as described above. |
| | | | The owner agrees to comply with the requirements of the NYSDOT Utility Reimbursement Procedure and FHWA Federal-Aid Policy Guide Part 645 with the respect to salvage and depreciation credits when applicable. |
| | | | |

V. General Covenants

The owner hereby agrees to accept full title and responsibility for the adjusted facility in writing upon satisfactory completion of the work. Such acceptance will acknowledge the owner's responsibility to maintain the facility in accordance with all applicable codes, standards and regulations, including his obligation, where applicable, to remove any or all of the facility from the highway at the order of the Commissioner of Transportation, all in accordance with the Rules and Regulations Governing the Accommodation of Utilities within the State Highway Right-of-Way. All compensable claims covered by this agreement will be included in one of the following:

- A. Privately Owned Property Agreement executed prior to the performance of the work.
- B. Municipal Agreement executed prior to performance of the work.
- C. Reimbursement Agreement executed prior to performance of the work.
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VI. References

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|---|---|---------------------------|---|
| □ Federal Highway Adm | inistration's Federal-Aid | Policy Guide Part 645. | |
| Contract documents: | Contract Number | D264625 | - |
| | PIN: 5813.11 | | |
| | Plan Sheets No.: Elec | tronic copy of the propo | sed contract plans |
| Owner's Plan Sheets | *************************************** | | 1 |
| Owner's Estimate She | ets Form No. FIN 223d | | |
| Resolution dated | , by | | |
| ☐ Granting the State | of New York authority to | perform the adjustmen | t for the owner. |
| | in facilities adjusted via | State-let contract. | |
| Authorizing deposit | t of funds by the owner. | | |
| □ Certification by the ow | ner or his agent that he | has the legal authority t | o enter into this agreement. |
| | | | |
| | | | |
| Print/Type Name) Owner or A | gent (Signature) | Title | Date |
| | | | |
| | Stat | ewide Utility Engineer | |
| leil Sergott, P.E. For the NYSDOT Commission | | Title | Date |
| | | | |

SPECIAL NOTE

COORDINATION WITH THE UTILITY SCHEDULE

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Reimbursable work to be done by the State's contractor:

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The State's Engineer-In-Charge, in coordination with the State's contractor, shall notify the Erie County Water Authority in writing <u>2 weeks</u> before commencing work on their facilities at each location and for <u>each</u> occurrence of work.

The State's Engineer-In-Charge will provide record plans to the Erie County Water Authority.

Additional Notes

- 1. The Contractor is governed by and must adhere to the provisions of 16 NYCRR Part 753 (Protection of Underground Facilities).
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Revised 2021 July 29 - EJSC

HC-140 (6/03) Page 1 of 4

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ORCHARD PARK

ERIE AND NIAGARA COUNTIES

State - Municipality, Reimbursable by Items and Labor Exchange (ILE)

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Existing Facilities (describe type, size, capacity, location, etc.)

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Site 4, C530075; Relocation – Existing waterline within the highway boundary of NY 277.

Site 5, C530008; Slip Line - Existing waterline within the highway boundary of US 20.

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Site 4, C530075; Relocation of 24" waterline.

per contract documents

for an estimated \$ N/A

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NEW YORK STATE DEPARTMENT OF TRANSPORTATION UTILITY WORK AGREEMENT

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|-------------|--|
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| | The owner will develop and keep a record of costs in accordance with the New York State Department of Transportation (NYSDOT) Reimbursement Procedures, and when federal funds participate in the cost, the Federal Highway Administration (FHWA) Federal-Aid Policy Guide Part 645, or as indicated below: |
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| | |
| | |
| | |

| 111. | Phy | sical Adjustment Method (check appropriate boxes): | | |
|---|-----|---|--|--|
| | The | actual adjustment or design engineering will be performed by the following method (s): | | |
| | | | | |
| | | Contract let by the Owner. (check applicable statement, i.e., a or b) | | |
| | | a. Best Interests of State. | | |
| | | b. Utility not sufficiently staffed or equipped. | | |
| | | By the Owner's forces. | | |
| IV. | Bet | terment, Salvage, and Depreciation Credits Due the Project (check appropriate boxes): | | |
| There will be no extension of service life, improved capacity, nor any other betterment of the facility (as defined by the NYSDOT Utility Reimbursement Procedures and by FHWA Feder Policy Guide Part 645) as a result of the adjustments made pursuant to this agreement. | | | | |
| | | There is betterment described as follows: | | |
| | | | | |
| | | The owner will not claim reimbursement for that betterment portion of the work, but will duly account for it as required by applicable NYSDOT and FHWA procedures. | | |
| | | The owner hereby agrees to deposit with the Comptroller of the State of New York the amount of \$ to cover the cost of the betterment as described above. | | |
| | | The owner agrees to comply with the requirements of the NYSDOT Utility Reimbursement Procedure and FHWA Federal-Aid Policy Guide Part 645 with the respect to salvage and depreciation credits when applicable. | | |
| | | | | |

V. General Covenants

The owner hereby agrees to accept full title and responsibility for the adjusted facility in writing upon satisfactory completion of the work. Such acceptance will acknowledge the owner's responsibility to maintain the facility in accordance with all applicable codes, standards and regulations, including his obligation, where applicable, to remove any or all of the facility from the highway at the order of the Commissioner of Transportation, all in accordance with the Rules and Regulations Governing the Accommodation of Utilities within the State Highway Right-of-Way. All compensable claims covered by this agreement will be included in one of the following:

- A. Privately Owned Property Agreement executed prior to the performance of the work.
- B. Municipal Agreement executed prior to performance of the work.
- C. Reimbursement Agreement executed prior to performance of the work.
- D. Such other agreement as approved by NYSDOT Office of Legal Affairs.

VI. References

| The following documents appropriate boxes) | are herewith incorporate | ed in this agreement be r | eference (check |
|---|-----------------------------|----------------------------|----------------------------|
| □ Federal Highway Adr | ninistration's Federal-Aid | Policy Guide Part 645. | |
| ○ Contract documents: | Contract Number | D264625 | |
| | PIN: 5813.11 | | |
| | Plan Sheets No.: Elec | ctronic copy of the propo | sed contract plans |
| Owner's Plan Sheets | | | |
| Owner's Estimate She | eets Form No. FIN 223 | 3 | |
| Resolution dated | , by | / | |
| ☐ Granting the State | of New York authority to | perform the adjustment | t for the owner. |
| | ain facilities adjusted via | State-let contract. | |
| ☐ Authorizing depos | it of funds by the owner. | | |
| ☐ Certification by the ow | ner or his agent that he | has the legal authority to | enter into this agreement. |
| (Print/Type Name) Owner or A | Agent (Signature) | Title | Date |
| Nell Course D.F. | Stat | ewide Utility Engineer | |
| Neil Sergott, P.E. For the NYSDOT Commission | er of Transportation | Title | Date |

SPECIAL NOTE

COORDINATION WITH THE UTILITY SCHEDULE

The contractor must coordinate their schedule of operations with the various utility owners involved with the project and shall verify utility information found in the contract documents. Utility revisions required by the various utility owners in connection with this project include:

The Erie County Water Authority

Utility Owner's Field Contact:

Leonard F. Kowalski, P.E., Executive Engineer Erie County Water Authority 3030 Union Road Cheektowaga, New York 14227

D: (716) 685-8220

O: (716) 684-1510

C: (716) 341-1137 F: (716) 684-8397

Ikowalski@ecwa.org

Erie County Water Authority has the following existing facilities at these locations:

Site 2, C530038; Relocation – Existing waterline within the highway boundary of NY 93.

Site 4, C530075; Relocation – Existing waterline within the highway boundary of NY 277.

Site 5, C530008; Slip Line – Existing waterline within the highway boundary of US 20.

Reimbursable work to be done by the State's contractor:

The project requires the following work to be done at these locations, per details in the contract documents:

Site 2, C530038; Relocation of 8" waterline

Site 4, C530075; Relocation of 24" waterline.

The work is to be done by the State's contractor and paid by contract items.

The State's Engineer-In-Charge, in coordination with the State's contractor, shall notify the Erie County Water Authority in writing <u>2 weeks</u> before commencing work on their facilities at each location and for each occurrence of work.

The State's Engineer-In-Charge will provide record plans to the Erie County Water Authority.

Additional Notes

- 1. The Contractor is governed by and must adhere to the provisions of 16 NYCRR Part 753 (Protection of Underground Facilities).
- The State's contractor shall verify utility information found in the contract documents.
 The State's contractor shall notify the State's Engineer-In-Charge of any discrepancies that are found.
- In addition to the above-itemized facility adjustments, other adjustments may become
 necessary during the construction phase as a result of more precise location data or
 other changes that might develop.
- 4. The Standard Specifications shall apply to all utility facility adjustments.
- 5. Any additional adjustments shall be performed by the utility owners and/or the State's contractor upon direction by the State's Engineer-In-Charge.
- 6. Notify the utility owner's field contact identified in this note three (3) business days prior to beginning work near the utility owner's facilities. Particularly if there will be incursion into the facilities' tolerance zone.
- 7. Any unintentional contact with a utility facility must be immediately reported to the utility owner's field contact. The field contact must give approval before work can continue.
- 8. Suitable time frames for additional adjustments shall be coordinated between the State's Engineer-In-Charge, the State's contractor, and the affected utility owners. Such timeframes shall not be included within previously established time frames.

END OF COORDINATION WITH THE UTILITY SCHEDULE

Revised 2021 July 29 - EJSC

HC-140 (6/03) Page 1 of 4

NEW YORK STATE DEPARTMENT OF TRANSPORTATION UTILITY WORK AGREEMENT

Since the construction, reconstruction, or maintenance of the transportation project described below, identified as:

| Project Identification No.: 5813.11 | F.A. Project No.: |
|-------------------------------------|----------------------------|
| ROW Declaration No.: | Map Nos.: |
| Parcel Nos.: | County of Erie and Niagara |
| Contract No.: D264625 | |

Project Description: LARGE CULVERT REPLACEMENTS AND REHABILITATIONS

NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20, & I-990 TOWNS OF PORTER, LEWISTON, LOCKPORT, HARTLAND, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA,

ORCHARD PARK

ERIE AND NIAGARA COUNTIES

State - Municipality, Reimbursable by Items and Labor Exchange (ILE)

necessitates the adjustment of utility facilities as hereinafter described, the owner, **Erie County Water Authority**, of said facilities herewith agrees with the State of New York acting through the Commissioner of Transportation that this agreement shall apply to the accommodation of these utility facilities. Any adjustment of said facilities will be accomplished under the terms of this agreement, in accordance with the Rules and Regulations Governing the Accommodation of Utilities within the State Highway Right-of-Way, in compliance with the attached Special Note, "Coordination with the Utility Schedule", and in accordance with the contract plans, specifications, proposal, amendment(s) or change order(s).

I. Existing Facilities (describe type, size, capacity, location, etc.)

Erie County Water Authority has existing facilities and their location(s) below:

Site 2, C530038; Relocation – Existing waterline within the highway boundary of NY 93.

Site 4, C530075; Relocation – Existing waterline within the highway boundary of NY 277.

Site 5, C530008; Slip Line - Existing waterline within the highway boundary of US 20.

presently located on NY State Right-of-Way as shown on the plans for the proposed transportation project are to be adjusted as follows: (describe type, size, capacity, location, etc.)

Site 2, C530038; Relocation of 8" waterline

Site 4, C530075; Relocation of 24" waterline.

per contract documents

for an estimated \$ N/A

| II. | Fin | ancial Responsibility (check appropriate boxes): |
|-----|-------------|--|
| | | The facilities to be adjusted under the terms of this agreement are subject to Section 52 of the State Highway Law, and the cost of this adjustment is the sole responsibility of the owner. |
| | \boxtimes | Subdivision 24 of Section 10 of the State Highway Law enables the Commissioner of Transportation to provide, at the expense of the State, for adjustment to a municipally owned utility when such work is necessary as a result of State highway work. (Municipal Agreement if required.) |
| | | Subdivision 24-b of Section 10 of the State Highway Law enables the Commissioner of Transportation to participate in the necessary expenses incurred for adjustment of privately, publicly, or cooperatively owned facilities, municipal utility facilities, or facilities of a corporation organized pursuant to the State Transportation Corporations Law. (Privately Owned Property Agreement or Reimbursement Agreement required.) |
| | | Subdivision 27 of Section 10 of the State Highway Law enables the Commissioner of Transportation, upon the request of a municipality, to perform for and at the expense of such municipality specified work to be included within a State-let contract. (Betterment Resolution required.) |
| | | Subdivision 33 of Section 10 of the State Highway Law enables the Commissioner of Transportation, upon the request of a public utility corporation, to perform for and at the expense of such public utility corporation specified work to be included within a State-let contract. |
| | | Subdivision 13 of Section 30 of the State Highway Law enables the Commissioner of Transportation to enter into an agreement to reimburse with public funds the owner for necessary expenses incurred as a result of this adjustment, or to replace the facilities in kind. |
| | | The owner will develop and keep a record of costs in accordance with the New York State Department of Transportation (NYSDOT) Reimbursement Procedures, and when federal funds participate in the cost, the Federal Highway Administration (FHWA) Federal-Aid Policy Guide Part 645, or as indicated below: |
| | | |
| | | |
| | | |

| III. | Phy | vsical Adjustment Method (check appropriate boxes): |
|------|-------------|---|
| | The | e actual adjustment or design engineering will be performed by the following method (s): |
| | | Contract let by the Commissioner. |
| | | Contract let by the Owner. (check applicable statement, i.e., a or b) |
| | | a. Best Interests of State. |
| | | ☐ b. Utility not sufficiently staffed or equipped. |
| | | ☐ By the Owner's forces. |
| IV. | Bet | tterment, Salvage, and Depreciation Credits Due the Project (check appropriate boxes): |
| | \boxtimes | There will be no extension of service life, improved capacity, nor any other betterment of the facility (as defined by the NYSDOT Utility Reimbursement Procedures and by FHWA Federal-Aid Policy Guide Part 645) as a result of the adjustments made pursuant to this agreement. |
| | | There is betterment described as follows: |
| | | |
| | | The owner will not claim reimbursement for that betterment portion of the work, but will duly account for it as required by applicable NYSDOT and FHWA procedures. |
| | | The owner hereby agrees to deposit with the Comptroller of the State of New York the amount of \$ to cover the cost of the betterment as described above. |
| | | The owner agrees to comply with the requirements of the NYSDOT Utility Reimbursement Procedure and FHWA Federal-Aid Policy Guide Part 645 with the respect to salvage and depreciation credits when applicable. |
| | | |

V. General Covenants

The owner hereby agrees to accept full title and responsibility for the adjusted facility in writing upon satisfactory completion of the work. Such acceptance will acknowledge the owner's responsibility to maintain the facility in accordance with all applicable codes, standards and regulations, including his obligation, where applicable, to remove any or all of the facility from the highway at the order of the Commissioner of Transportation, all in accordance with the Rules and Regulations Governing the Accommodation of Utilities within the State Highway Right-of-Way. All compensable claims covered by this agreement will be included in one of the following:

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- C. Reimbursement Agreement executed prior to performance of the work.
- D. Such other agreement as approved by NYSDOT Office of Legal Affairs.

VI. References

| The following documents ar appropriate boxes) | e herewith incorpo | orated in this | agreement be | reference (check |
|---|-----------------------|----------------|------------------|-------------------------------|
| | istration's Federa | l-Aid Policy | Guide Part 645 | · |
| Contract documents: | Contract Number | D2 | 264625 | _ |
| | PIN: 5813.11 | | | |
| | Plan Sheets No.: | Electronic c | opy of the prop | osed contract plans |
| Owner's Plan Sheets _ | | | | |
| Owner's Estimate Shee | ts Form No. FIN | 223c | | |
| □ Resolution dated | | _, by | | |
| ⊠ Granting the State o | f New York author | ity to perfor | m the adjustme | ent for the owner. |
| | ı facilities adjusted | l via State-le | t contract. | |
| Authorizing deposit | of funds by the ow | ner. | | |
| Certification by the own | er or his agent tha | t he has the | legal authority | to enter into this agreement. |
| | | | | |
| | | | | |
| (Print/Type Name) Owner or Ag | ent (Signatur | -e) | Title | Date |
| | | | | |
| | | Statewide L | Itility Engineer | |
| Neil Sergott, P.E. For the NYSDOT Commissioner | of Transportation | | Title | Date |

SPECIAL NOTE

COORDINATION WITH THE UTILITY SCHEDULE

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Utility Owner's Field Contact:

Leonard F. Kowalski, P.E., Executive Engineer Erie County Water Authority 3030 Union Road Cheektowaga, New York 14227

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Site 4, C530075; Relocation of 24" waterline.

The work is to be done by the State's contractor and paid by contract items.

The State's Engineer-In-Charge, in coordination with the State's contractor, shall notify the Erie County Water Authority in writing **2** weeks before commencing work on their facilities at each location and for each occurrence of work.

The State's Engineer-In-Charge will provide record plans to the Erie County Water Authority.

PIN 5813.11 2A

Additional Notes

- 1. The Contractor is governed by and must adhere to the provisions of 16 NYCRR Part 753 (Protection of Underground Facilities).
- The State's contractor shall verify utility information found in the contract documents.
 The State's contractor shall notify the State's Engineer-In-Charge of any discrepancies that are found.
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 necessary during the construction phase as a result of more precise location data or
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- 5. Any additional adjustments shall be performed by the utility owners and/or the State's contractor upon direction by the State's Engineer-In-Charge.
- 6. Notify the utility owner's field contact identified in this note three (3) business days prior to beginning work near the utility owner's facilities. Particularly if there will be incursion into the facilities' tolerance zone.
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END OF COORDINATION WITH THE UTILITY SCHEDULE

Revised 2021 July 29 - EJSC

Resolution Granting the State of New York Authority to Perform the Adjustment for the Owner and Agreeing to Maintain Facilities Adjusted Via State-let Contract

RESOLUTION

| Resolution # |
|---|
| WHEREAS, the New York State Department of Transportation proposes the construction, reconstruction, or improvement of state project name from cover letter in the name of municipality located in county name county, PIN enter PIN, and |
| WHEREAS, the State will include as part of the construction, reconstruction, or improvement of the above mentioned project the work to be done pursuant to Section 10, Subdivision 24, of the State Highway Law, as shown on the contract plans relating to the project and meeting the requirements of the owner, and |
| WHEREAS, the service life of the relocated and or replaced utilities has not been extended, and |
| WHEREAS, the State will provide for the reconstruction of the above mentioned work, as shown on the contract plans relating to the above mentioned project. |
| NOW, THEREFORE, |
| BE IT RESOLVED: That the name of municipality approves of the work to be done and the above mentioned work performed on the project and shown on the contract plans relating to the project and that the name of municipality will maintain or cause to be maintained the adjusted facilities performed as above stated and as shown on the contract plans. |
| BE IT FURTHER RESOLVED: that name has the authority to sign, with the concurrence of the board, any and all documentation that may become necessary as a result of this project as it relates to the name of municipality, and |
| BE IT FURTHER RESOLVED: That the clerk of the name of municipality is hereby directed to transmit five (5) certified copies of the foregoing resolution to the New York State Department of Transportation. |
| Moved By: Seconded By: Vote: |
| , duly appointed and qualified , do hereby CERTIFY that the foregoing resolution was adopted at a meeting duly called and held in the office of, , a quorum being present on the day of , and that said copy is a true, correct and compared copy of the original resolution so adopted and that the same has not been revoked or rescinded. |
| WITNESSETH, my hand and seal this day of . |
| Name, title |
| Instructions: fill in the red prompts with information from the cover letter. |

STATE OF NEW YORK **REGIONS & LOCATIONS** OF REGIONAL OFFICES OF THE NYS DEPARTMENT OF TRANSPORTATION PROJECT LOCATIONS

NEW YORK STATE OF **OPPORTUNITY**,

CONTRACT D

Department of Transportation

LARGE AND SMALL CULVERT REPLACEMENTS AND REHABILITATIONS

NY RTES. 18, 62, 93, 104, 270 & 277, US RTE 20, & I-990

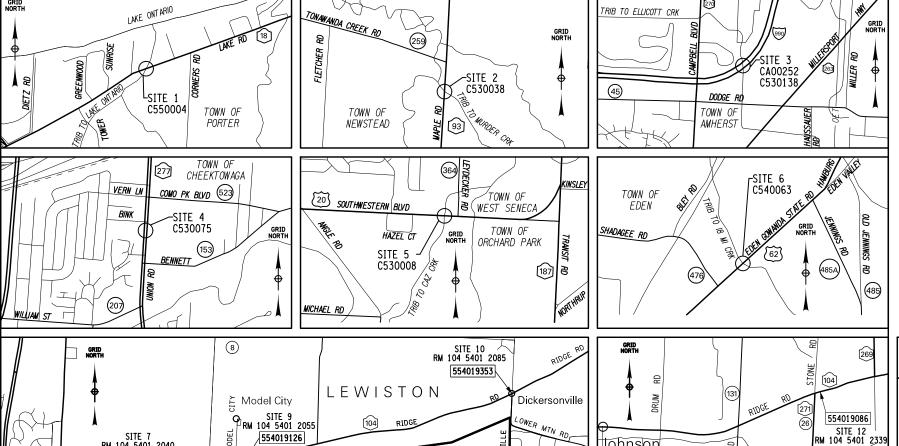
TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA, ORCHARD PARK, EDEN, LEWISTON, CAMBRIA AND HARTLAND

NIAGARA AND ERIE COUNTIES

F.A. PROJECT

NIAGARA AND ERIE COUNTIES

CONTRACTOR'S NAME AWARD DATE_ COMPLETION DATE FINAL ACCEPTANCE DATE REGIONAL DIRECTOR ENGINEER IN CHARGE FINAL COST TOTAL FISCAL SHARE COST(S)

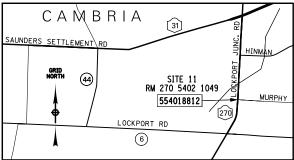


| SITE# | CULVERT | STATE HW NO. | FEATURE CARRIED |
|-------|-----------|-----------------|------------------|
| 1 | C550004 | SH 8306 | RM 18-5401-1094 |
| 2 | C530038 | SH 947 | RM 93-5302-1008 |
| 3 | CA00252 | SH 82-14 | RM 990-5301-1033 |
| 3 | C530138 | SH 82-14 | RM 990-5301-1033 |
| 4 | C530075 | SH 1733 | RM 277-5301-1152 |
| 5 | C530008 | SH 9269 | RM 20-5302-1269 |
| 6 | C540063 | SH 523 | RM 62-5303-1157 |
| 7 | 554019432 | SH 617 | RM 104-5401-2040 |
| 8 | 554019269 | SH 617 | RM 104-5401-2051 |
| 9 | 554019126 | SH 617 | RM 104-5401-2055 |
| 10 | 554019353 | SH 617/ SH 9105 | RM 104-5401-2085 |
| 11 | 554018812 | SH 773A | RM 270-5402-1049 |
| 12 | 554019086 | SH 5431 | RM 104-5401-2339 |

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT POCCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND GUIDELINES AND THE FINAL DESIGN REPORT APPROVED ON 12/22/2020.



ARGE & SM CULVERT REPLACEMENTS AND REHAB. NY 18,62,93,104,270,277,US 20 & I-990 TNS PORTER, NEWSTEAD, AMHERST, EDEN, W. SENECA CHEEKTOWAGA, ORCHARD PARK, LEWISTON, CAMBRIA & HARTLAND. COUNTIES: NIAGARA AND ERIE FED. ROAD REG. NO. STATE SHEET NO. N.Y.

CAPITAL PROJECT IDENTIFICATION NO. 5813.11

INDEX ON SHEET NO. 003

APPROVED BY

REGIONAL DESIGN ENGINEER SANJYOT S. VAIDYA, PE

CULVERTS TO BE REPLACED IN ERIE COUNTY: SITE 2 C530038 ON NY RT 93, SITE 4 C530075 ON NY RT 277, AND SITE 6 C540063 ON NY RT 62. RECOMMENDED BY

SITE 7 RM 104 5401 2040

554019432

RECOMMENDED BY

CULVERTS TO BE REHABILITATED IN NIAGARA COUNTY: SITE 1 C550004 ALONG NY RT 18.

RECOMMENDED BY

PROJECT LOCATION

REGIONAL TRAFFIC ENGINEER

REGIONAL DIRECTOR FRANK P. CIRILLO, SR/WA

APPROVED BY

Johnson

AR

Creek

CULVERTS TO BE REPLACED IN NIAGARA COUNTY: SITES 7, 8, 9, 10 & 12 ALONG NY RT 104, AND SITE 11 ALONG NY RT 270.

FILE NAME = 581311_CPH_CVR.dgr DATE/TIME = 14-MAY-2021 10:02 USER = pmo³elock

REGIONAL CONSTRUCTION ENGINEER DANIEL W. PASKIE, PE

ACTING REGIONAL DIRECTOR OF OPERATIONS DATE JOHN S. COGSWELL, PE

554019126

SITE 8
RM 104 5401 2051
MOUNTAIN

161 PD 554019269

CULVERTS TO BE REHABILITATED IN ERIE COUNTY: SITE 3 CA00252, C530138 ALONG I-990 AND SITE 5 C530008 ALONG US RT 20.

MICHAEL J. ROCHE, PE

DATE

| | ı |
|---|---|
| _ | T |
| | • |

| SCHALLER |
|----------|
| <u>ب</u> |
| MANAGER |
| PROJECT |
| |
| AMBROSE |
| |

TG TOP OF GRATE VCP VITRIFIED CLAY PIPE

| DATE/TIME = 14-MAY-2021 10:02 USER = pmorelock Hoserry Clubedvicob DE Could 150 | | |
|---|---|---------------------|
| JATE/TIME = 14-MAY-202 USER = pmorelock | 1 10:02 | CCUALLED |
| | ATE/TIME = 14-MAY-202 USER = pmorelock | ECTON CHEEDVICOB BE |

| | | _ | | |
|-------------|--|--|-----------------------|---------------------|
| | ALIGNMENT | | TOPOGRAF | PHY (MISCELLANEOUS) |
| ABBR. | DESCRIPTION | ABBR. | DESCRIPTION | DN . |
| AH | AHEAD | ABU ⁻ | | |
| AZ | AZIMUTH | AOBI | AS ORDERED | BY ENGINEER |
| BK | BACK | ASPI | | |
| ₽DC | BASELINE | BD' | | |
| BRG © | BEARING CENTERLINE | BLD | | |
| CS | CURVE TO SPIRAL | C | | |
| е | SUPERELEVATION RATE (CROSS SLOPE) | CON | + | |
| EQ | EQUALITY | CONS | | |
| EXT | EXTERNAL | CI | | |
| HCL HSD | HORIZONTAL CONTROL LINE HEADLIGHT SIGHT DISTANCE | DM | DEED DISTAN | |
| L | LENGTH OF CIRCULAR CURVE | DW. | | DUREMENT |
| LS | LENGTH OF SPIRAL | Ef | | VEMENT |
| LVC | LENGTH OF VERTICAL CURVE | ES | EDGE OF SH | OULDER |
| E | CENTER CORRECTION OF VERTICAL CURVE | FE | | |
| M. | MAIN LINE | FEE WO/ | · · | TION WITHOUT ACCESS |
| PC PI | POINT OF CURVATURE POINT OF INTERSECTION | FF | | |
| POL | POINT OF INTERSECTION POINT ON LINE | FI FI | | |
| PSD | PASSING SIGHT DISTANCE | GAI | | |
| PT | POINT OF TANGENT | GI | | |
| PVC | POINT OF VERTICAL CURVE | Н | HOUSE | |
| PVI | POINT OF VERTICAL INTERSECTION | HW' | | |
| PVT | POINT OF VERTICAL TANGENT | II. | | IRON PIPE |
| R SC | RADIUS SPIRAL TO CURVE | ME | | |
| SSD | STOPPING SIGHT DISTANCE | MON N&N | | ACHER |
| ST | SPIRAL TO TANGENT | 00 | | |
| STA | STATION | 0/1 | | |
| T | TANGENT LENGTH | + | PARCEL | |
| TGL | THEORETICAL GRADE LINE | PAV' | | |
| TS | TANGENT TO SPIRAL | PE | | |
| VC | VERTICAL CURVE | PED POLE | _ | |
| | TOPOGRAPHY (DRAINAGE) | POF | - | INL |
| ABBR. | DESCRIPTION | RI | + | |
| BB | BOTTOM OF BANK (STREAM) | RTE | | |
| BC | BOTTOM OF CURB | ROV | | |
| B0 CAP | BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE | RV | | |
| CB | CATCH BASIN | SHLDF | | NAY |
| CIP | CAST IRON PIPE | SPI | | |
| € STRM | CENTERLINE OF STREAM | S. | | |
| CMP | CORRUGATED METAL PIPE | STI | STAKE | |
| CP | CONCRETE PIPE | ST | | |
| CSP | CORRUGATED STEEL PIPE | SV | | FACEMENT |
| CULV | CUL VERT DIAMETER | T(| | |
| DMH | DRAINAGE MANHOLE | U/O | | |
| DS | DRAINAGE STRUCTURE PIPE | WV | | |
| D'XING | DITCH CROSSING | | <u></u> - | |
| EHW | EXTREME HIGH WATER | 1 [| STANDARD | ITEM PAYMENT UNIT: |
| EL | ELEVATION | - | SYMBOL | ESTIMATE OF |
| ELEV ELW | ELEVATION EXTREME LOW WATER | - | (PLANS) | QUANTITIES SHEET |
| ES | END SECTION | 1 h | н | - |
| HW | HEADWALL | 1 | , | LF |
| INV | INVERT |] [| mi | MI |
| MH | MANHOLE | ↓ | ft ² | SF |
| MHW | MEAN HIGH WATER | ↓ | YD ² | SY |
| OHW | ORDINARY HIGH WATER ORDINARY LOW WATER | -{ | AC YD ³ | CY CY |
| OL W RCP | REINFORCED CONCRETE PIPE | ┥ ト | GAL | GAL |
| SICPP | SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE | 1 | lb | LB |
| ТВ | TOP OF BANK (STREAM) |] [| TON | TON |
| TC | TOP OF CURB |] | | |
| TC | TOP OF CRATE | i | | |

| STANDARD Symbol (Plans) | ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET | EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL) |
|-------------------------------|---|---|
| 11 | - | INCHES |
| , | LF | LINEAR FEET |
| mi | MI | MILES |
| f†² | SF | SQUARE FEET |
| YD ² | SY | SQUARE YARD |
| AC | AC | ACRES |
| YD3 | CY | CUBIC YARD |
| GAL | GAL | GALLON |
| lb | LB | POUND |
| TON | TON | TON |

UTILITIES

GAS SERVICE BOX (HOUSE LINE)

GAS VALVE (MAIN LINE)

LOW PRESSURE GAS

SANITARY SEWER

STORM SEWER

TELEPHONE BOX

TELEPHONE POLE

TELEPHONE MANHOLE

WATER SERVICE BOX (HOUSE LINE)

SUBSURFACE EXPLORATION

CABLE TELEVISION

WV WATER VALVE (MAIN LINE)

REPLACE ABBREVIATION "AB" WITH:

DA 21/4 INCHES CASED DRILL HOLE

DN 4 INCHES CASED DRILL HOLE

FH HOLLOW FLIGHT AUGER

PT PERCOLATION TEST HOLE

RP 1 INCH SAMPLER (RETRACTABLE PLUG)

TO BE DEFINED AT THE TIME OF EXPLORATION

TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE

DESCRIPTION

TELEPHONE

WATER

AH HAND AUGER CP CONE PENTROMETER

DM DRILLING MUD

PA POWER AUGER

SP SEISMIC POINT TP TEST PIT

ABBREVIATION "C" IN CATEGORIES:

DA, DM, DN, AND FH WITH:

B BRIDGE

K CULVERT

WALL

C CUT D DAM F FILL

PH PROBE

SANITARY MANHOLE

TRAFFIC CONTROL BOX

DESCRIPTION

ELECTRIC MANHOLE

ELECTRIC

GUY POLE

HYDRANT

LIGHT POLE

POWER POLE

ABBR.

EMH

G

GP

GSB

G۷

HYD

LP

LPG

PP

SA

ST

TCB

TELBOX

TEL P

TMH

CTV

WSB

ABBR.

SMH

LIST OF NECESSARY STANDARD SHEETS

| THE FOLL | OWING U.S | . CUSTOMA | RY STAND | ARD SHEET | TS APPLY |
|----------|-----------|-----------|----------|-----------|----------|
| 203-01 | 203-02 | 203-04 | 203-05 | 209-01 | 209-05 |
| 402-01 | 554-01 | 554-02 | 603-01 | 603-02 | 604-02 |
| 606-04 | 606-07 | 608-01 | 609-02 | 609-03 | 619-01 |
| 619-02 | 619-10 | 619-11 | 619-12 | 619-20 | 619-21 |
| 619-30 | 619-31 | 619-32 | 619-41 | 619-50 | 619-51 |
| 619-60 | 619-61 | 619-62 | 619-63 | 619-64 | 645-01 |
| 645-02 | 645-03 | 645-05 | 645-06 | 645-09 | 646-11 |
| 655-01 | 655-06 | 663-01 | 663-02 | 663-03 | 663-04 |
| 663-07 | 685-01 | | | | |
| | | | | | |

| ARGE AND SMALL CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | LG CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NO | OTED | CONTRACT NUMBER |
|---|-------------------------|---------|--------------------|--|------|--------------------|
| NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | C550004 C530038 | ABREVIATIONS | | , D |
| TOWNS OF PORTER, NEWSTEAD, AMHERST, EDEN, WEST SENECA, EDEN | UTILITY QUALITY LEVEL D | | CA00252 C530138 | ABILETIATIONS | ŀ | DDAWING NO IND OF |
| CHEEKTOWAGA, ORCHARD PARK, LEWISTON, CAMBRIA, AND HARTLAND | | | C530075 C530008 | | | DRAWING NO. IND-01 |
| COUNTIES: NIAGARA AND ERIE REGION: 05 | | | C540063 | | | SHEET NO. 02 |
| <u> </u> | | • | • | | | |

FILE NAME = 581311_CPH_IND_02.dgn
DATE_TINE = 17-MAY-2021 10:13
USER = pmorelock
DESIGN SUPERVISOR R.F. SCHALLER

| DESIGN P.J. MC |
|------------------|
| R.S. AMBROSE |
| JOB MANAGER R.S. |
| R.F. SCHALLER |

| INDEX | TOTAL NUMBER OF SHEETS = | | | | | | |
|--------|--|------------------|--|--|--|--|--|
| SHEET# | DESCRIPTION | DRAWING NUMBER | | | | | |
| 1 | TITLE SHEET | COVER | | | | | |
| 2 | ABBREVIATIONS | IND-01 | | | | | |
| 3 | INDEX | IND-02 | | | | | |
| 4 - 5 | LEGEND, LINE AND POINT SYMBOLOGY | LEG-01 to LEG-02 | | | | | |
| 6 | GENERAL NOTES - SITES 1-6 | GNN-01 | | | | | |
| 7 | WORK ZONE TRAFFIC CONTROL NOTES - SITES 1-6 | MPN-01 | | | | | |
| 8 - 17 | WORK ZONE TRAFFIC CONTROL TYPICALS - SITES 1-6 | MPD-01 to MPD-10 | | | | | |
| 18 | MAINTENANCE JURISDICTION TABLE - SITES 1-6 | MJT-01 | | | | | |
| | EARTHWORK SUMMARY SHEETS - SITES 1-6 | ESS-01 to ESS-02 | | | | | |
| | LANDSCAPE ARCHITECTURE NOTES - SITES 1-6 | LAN-01 | | | | | |
| | WATER DETAILS - GENERAL: ECWA | WTD-01 to WTD-02 | | | | | |
| | WATER NOTES - GENERAL: ECWA | WTN-01 | | | | | |
| | UTILITY DISPOSITION TABLE - SITES 1-6 | UTT-01 | | | | | |

| CULVERT #1 C550004: STRUCT. CONC. PAVED IN | VERT | | | | | |
|---|----------------------|--|--|--|--|--|
| GENERAL PLAN | GNP 1-01 | | | | | |
| CULVERT DETAILS SHEETS | CUL 1-01 | | | | | |
| CULVERT #2 C530038: REPLACE WITH 16' x 6' RCB | | | | | | |
| TYPICAL SECTION | TYP 2-01 | | | | | |
| WORK ZONE TRAFFIC CONTROL TYPICAL SECTION | MPD 2-01 to MPD-03 | | | | | |
| WORK ZONE TRAFFIC CONTROL PLAN | MPP 2-01 to MPP 2-21 | | | | | |
| ALIGNMENT | ALG 2-01 to ALG 2-02 | | | | | |
| MISCELLANEOUS TABLES | MST 2-01 to MST 2-05 | | | | | |
| EARTHWORK SUMMARY SHEETS | ESS 2-01 to ESS 2-02 | | | | | |
| GENERAL PLAN | GNP 2-01 | | | | | |
| GENERAL PROFILE | GPR 2-01 | | | | | |
| WATER DETAILS - RELOCATION PLAN AND PROFILE | WTD 2-01 to WTD 2-02 | | | | | |
| CULVERT DETAILS SHEETS | CUL 2-01 to 2-12 | | | | | |
| CULVERT #3 CA00252 & C530138: SLIP LINE WITH 5' | dia HDPE | | | | | |
| GENERAL PLAN | GNP 3-01 | | | | | |
| CULVERT DETAILS SHEETS | CUL 3-01 to CUL 3-02 | | | | | |
| CULVERT #4 C530075: REPLACE WITH 7' x 4' R | CB | | | | | |
| TYPICAL SECTION | TYP 4-01 | | | | | |
| WORK ZONE TRAFFIC CONTROL TYPICAL SECTION | MPD 4-01 | | | | | |
| WORK ZONE TRAFFIC CONTROL PLAN | MPP 4-01 to MPP 4-13 | | | | | |
| ALIGNMENT | ALG 4-01 to ALG 4-02 | | | | | |
| MISCELLANEOUS TABLES | MST 4-01 to MST 4-09 | | | | | |
| EARTHWORK SUMMARY SHEETS | ESS 4-01 to ESS 4-02 | | | | | |
| GENERAL PLAN | GNP 4-01 | | | | | |
| GENERAL PROFILE | GPR 4-01 | | | | | |
| PAVEMENT MARKING PLAN | PMP 4-01 | | | | | |
| WATER DETAILS - RELOCATION PLAN AND PROFILE | WTD 2-01 to WTD 2-02 | | | | | |
| CULVERT DETAILS SHEETS | CUL 4-01 to 4-10 | | | | | |
| CULVERT #5 C530008: SLIP LINE WITH 72" x 48" F | HDPE | | | | | |
| GENERAL PLAN | GNP 5-01 | | | | | |
| CULVERT DETAILS SHEETS | CUL 5-01 | | | | | |
| CULVERT #6 C540063: REPLACE WITH 7' x 7' R | CB | | | | | |
| TYPICAL SECTION | TYP 6-01 | | | | | |
| WORK ZONE TRAFFIC CONTROL TYPICAL SECTION | MPD 6-01 | | | | | |
| WORK ZONE TRAFFIC CONTROL PLAN | MPP 6-01 to MPP 6-10 | | | | | |
| ALIGNMENT | ALG 6-01 to ALG 6-03 | | | | | |
| MISCELLANEOUS TABLES | MST 6-01 to MST 6-06 | | | | | |
| EARTHWORK SUMMARY SHEETS | ESS 6-01 to ESS 6-02 | | | | | |
| GENERAL PLAN | GNP 6-01 | | | | | |
| GENERAL PROFILE | GPR 6-01 | | | | | |
| WATER DETAILS - RELOCATION PLAN AND PROFILE | WTD 6-01 to WTD 6-02 | | | | | |
| CULVERT DETAILS SHEETS | CUL 6-01 to CUL 6-11 | | | | | |
| | | | | | | |

SHEET # DESCRIPTION

| SHEET# | DESCRIPTION | DRAWING NUMBER | | |
|--------|---|------------------|--|--|
| | GENERAL NOTES - SITES 7-12 | GNN-1 | | |
| | LOCATION MAP - SITES 7-12 | LOC-1 | | |
| | CULVERT #7 554019432: REPLACE WITH 2' dia. SIC | :PP | | |
| | GENERAL PLAN | GNP7-1 | | |
| | TYPICAL SECTION | TYP7-1 | | |
| ' | CULVERT #8 554019269: REPLACE WITH 4' x 2' RC | В | | |
| | GENERAL PLAN | GNP8-1 | | |
| | TYPICAL SECTION | TYP8-1 | | |
| ' | CULVERT #9 554019126: REPLACE WITH 3' dia. SIC | PP | | |
| | GENERAL PLAN | GNP9-1 | | |
| | TYPICAL SECTION | TYP9-1 | | |
| - | CULVERT #10 554019353: REPLACE WITH 3' dia. SIG | CPP | | |
| | GENERAL PLAN | GNP10-1 | | |
| | TYPICAL SECTION | TYP10-1 | | |
| ' | CULVERT #11 554018812: REPLACE WITH 2' dia. SIG | CPP | | |
| | GENERAL PLAN | GNP11-1 | | |
| | TYPICAL SECTION | TYP11-1 | | |
| ' | CULVERT #12 554019086: REPLACE WITH 3' dia. SIG | CPP | | |
| | GENERAL PLAN | GNP12-1 | | |
| | TYPICAL SECTION | TYP12-1 | | |
| | MISCELLANEOUS TABLES - SITES 7-12 | MST1-1 to MST1-2 | | |
| | | | | |
| | DRAINAGE NOTES | DRN-01 | | |
| | DRAINAGE TABLES | DRT-01 to DRT- | | |
| | DRAINAGE DETAILS | DRD-01 to DRD- | | |

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE & SMALL CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS C550004 | ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED | CONTRACT NUMBER | |
|---|--|-------------------------|---------|---------------------|---|-------------------|--|
| | NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | C530038 CA00252 | INDEX |) D | |
| | TNS OF PORTER, NEWSTEAD, AMHERST, EDEN, WEST SENECA, E | 1 | | C530138 | | DRAWING NO. INDEX | |
| | CHEEKTOWAGA, ORCHARD PARK, LEWISTON, CAMBRIA, HARTLAND | 4 | | C530075 C530008 | | SHEET NO. 03 | |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | C540063 | <u> </u> | SHEET NO. US | |

DRAWING NUMBER



LWS

MDL

MEP_P

MEPA_P

META F

MFA_P

MFS_P

MHA

MHB

MHRW

MJC

MJCY

MJHD

MJLL

MJN

MJS

MJΥ

MPI

MPLA

MSL

MHBWOA

ROW MAPPING

WALL, STONE

DEED LINE

EASEMENT, EXISTING

EASEMENT, PERMANENT

EASEMENT, TEMPORARY

FEE ACQUISITION, SHAPE

HISTORICAL, ACQUISITION

HIGHWAY BOUNDARY, APPROX.

HWY BOUNDARY, FACE OF WALL

HIGHWAY BOUNDARY, W/O ACCESS

JURISDICTION, HISTORIC DISTRICT

JURIS. (GREAT, MILITARY) LOT LINE

HIGHWAY BOUNDARY

JURISDICTION, CITY

JURISDICTION, COUNTY

JURISDICTION, NATION

JURISDICTION, STATE

JURISDICTION, VILLAGE

PROPERTY LOT LINE

SUB LOT LINE

JURISDICTION, PUBLIC LANDS

PROPERTY LOT LINE, APPROXIMATE

EASEMENT, PERMANENT, APPROX.

EASEMENT, TEMPORARY, APPROX

FEE ACQUISITION, APPROXIMATE

FEE ACQUISITION, W/O ACCESS

FEE ACQUISITION, W/ ACCESS

| | l . | | | |
|----------------------------|-------------|----------|--------------------------------|---------------------------|
| CHECK R.S. | ST-> | DCP_P | CULVERT PIPE (DIR) | |
| CHEC | <u>₹</u> | DDG_P | DITCH, GRASS LINED | 000000000 |
| R. | * | DDP_P | DITCH, PAVED INVERT | |
| DRAFTING P.J. MORELOCK JR. | | DDS_P | DITCH, STONE LINED | - ——— PE ——— - |
| MO | | DFL_P | FLOW LINE | _ |
| <u>.</u> | | DSSD | SLOTTED DRAIN | - ——APE—— - |
| FTIN | UD->> | DUD_P | UNDERDRAIN | - — TE — - |
| DRA | EN | IVIRONME | NTAL | - ——ATE—— - |
| | | ECT | CURTAIN, TURBIDITY | —— FEE —— |
| | 0-0-0-0-0 | EDMC | DAM, COFFER | AFEE |
| MBROSE | | EDMEC_P | DAM, EARTHEN CHECK | FEE W/OA |
| CHECK R.S. AMBROSE | | EDMGSC_P | DAM, GRAVEL BAG/SAND BAG CHECK | |
| CHECK | | EDMPC_P | DAM, PREFABRICATED CHECK | - — HB — - - — АНВ — - |
| <u>"</u> | | EDMSC_P | DAM, STONE CHECK | |
| Š | - | EFNS | FENCE, SILT | |
| OREL | × | EFNSV | FENCE, SILT & VEGETATION | |
| ≥ | ~×~ | EFNV | FENCE, VEGETATION | |
| DESIGN P.J. MORELOCK JR. | | ESFL | FILTER, SEDIMENT LOG | |
| DES | AA | EWAA_P | WETLAND, ADJACENT AREA | |
| | FW- | EWF | WETLAND, FEDERAL | |
| | FW-SW- | EWFS | WETLAND, FEDERAL AND STATE | |
| AMBROSE | SW | EWM | WETLAND, MITIGATION AREA | |
| AMB | SW | EWS | WETLAND, STATE | |
| | | | | |

| 1. THE LEGEND | ILLUSTRATES | MAPPING | FEATURES | (EXISTING | AND | PROPOSED). |
|---------------|--------------------|---------|-----------------|------------------|-----|------------|
| | | | | | | |

- FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
- 3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
- 4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE
- MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD
- 6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

| LARGE & SMALL CULVERT REPLACEMENTS AND REHABI | LITATIONS | PIN 5813.11 | BRIDGES | CULVERTS C550004 | ALL DIMENSIONS IN f† UNLESS OTHERWISE N | OTED | CONTRACT NUMBER |
|--|------------|-------------------------|---------|---------------------|---|------|--------------------|
| NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20 & | | UTILITY QUALITY LEVEL D | | C530038 CA00252 | LEGENDS, LINE SYMBOLOGY | | D |
| TNS OF PORTER, NEWSTEAD, AMHERST, EDEN, WEST SENECA, E | | | | C530138 | | | DDAWING NO LEC 01 |
| CHEEKTOWAGA, ORCHARD PARK, LEWISTON, CAMBRIA, HARTLAND | | | | C530075 | | | DRAWING NO. LEG-01 |
| COUNTIESNIAGARA | REGION: 05 | | | C530008 C540063 | | | SHEET NO. 03 |
| | | - | | - | | | 1 |

RAIL, PHOTO, LARGE SCALE

RAIL, PHOTO, SMALL SCALE

RAIL. SURVEY. LARGE SCALE

RAIL. SURVEY. SMALL SCALE

RUMBLE STRIP

BILLBOARDS

MULTIPLE POST

BROKEN LINE

STRUCTURE, OVERHEAD

DOUBLE BROKEN LINE

DOTTED LINE LONG

DOTTED LINE SHORT

FULL BARRIER LINE

PARTIAL BARRIER LINE

ROUNDABOUT, CAT TRACKS

ROUNDABOUT, YIELD LINE

X WALK, LADDER LINE

SIGNAL, SPAN WIRE

X WALK, LADDER BAR LINE

* = W (WHITE) OR Y (YELLOW)

HATCH LINE

STOP BAR

SOLID, EDGE

STRUCTURE, OVHD, CANTILEVER

RRPSS

RRSLS_P

RRSSS

SIGNS

SBLB

SS0

SSOC

STB*

STDB*

STDL.

STDS*

STFB*

STH*

STPB*

STRCT

STRYL

STSB

STSE*

STXL

STXLB

TRAFFIC CONTROL

STRIPING

RRS

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_ _ _ _ _

NEW YORK STATE OF OPPORTUNITY Department of Transportation

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FIBER OPTIC, UNDERGROUND

INFORM CABLE, UNDERGROUND

INFORM CABLE, HANGING

OIL LINE, UNDERGROUND

POLE, BRACE, PUSH BRACE

SANITARY SEWER, HANGING

TELEPHONE, UNDERGROUND

TELEPHONE, HANGING

TELEPHONE, OVERHEAD

CABLE TV. HANGING

UNKNOWN, HANGING UNKNOWN, OVERHEAD

CABLE TV, OVERHEAD

UNKNOWN. UNDERGROUND

WATER LINE, UNDERGROUND

WATER LINE, HANGING

WATER LINE, OVERHEAD

CABLE TV, UNDERGROUND

SANITARY SEWER, UNDERGROUND

SANITARY SEWER, FORCE MAIN, UGND

SANITARY SEWER, FORCE MAIN, HANG

OIL LINE, HANGING

POLE, GUY WIRE

FIBER OPTIC, HANGING

FIBER OPTIC, OVERHEAD

GAS. UNDERGROUND

GAS. HANGING

GAS, OVERHEAD

Transportation

8

ALIGNMENT DRAINAGE ITS ROW MAPPING SIGNS UTILITIES CELL NAME DESCRIPTION CENTER OF CURVATURE **A ANTENNAS** (E)ELECTRIC, BOX TANT DEED LINE, TYPE 1 SINGLE POST S_P SINGLE POST, PROPOSED Ε \otimes UEM FLECTRIC, METER IASCTS ACCOU. SPEED/COUNT SNSR.S MDL2P DEED LINE, TYPE 2 TRUCTURE, RECTANGULAR ACS CURVE TO SPIRAL P SB_F BACK TO BACK, PROPOSED Œ UEMH ELECTRIC, MANHOLE TCARPA CABINET & PAD DEED LINE, TYPE 3 TRUCTURE. INVERT ⊕ Δ DETOUR, POINT OF INTERSECT. ADPI_P 4 UEPT ELECTRIC, POLE, TRANS. ICCTV CCTV SITE MDI 4P DEED LINE, TYPE 4 **DELINEATORS** TRUCTURE, MANHOLE 0 DETOUR, POINT ON LINE \bigoplus G ADPI P **ICDPD** CDPD TRANSCEIVER DEED LINE, TYPE 5 SPM PARKING METER UGM GAS, METER \odot AEQN EQUATION ICELL' CELL PHONE TOWER MFFF EASEMENT. EXISTING RFM SRM REFERENCE MARKERS (G) UGMH GAS, MANHOLE 1/2:33 XX'' = 48, 60, 72, 90**EQUATION AHEAD (A)** -Ĝ>-GAS, LINE MARKER SRSC3 SHLD, CTY, 123 DIG. LIGI M **ICJB** CONDUIT JACK OR BORING MEPAP_P EASEMENT. PERM. APPROX. TRUCTURE, ROUND (B) **EQUATION BACK** 0 EASEMENT, PERM., BACK LINE FP AFONBK 17-----**ICNTLCAE** CONTROLLER CABINET MEPP_P SRSC4 SHLD, CTY, 4 DIG. **UGP** GAS/FUEL PUMP JCTURE, RECT., WITH CURE \odot **EVENT STATION** 0 Ω **AEVT ICPB** COMMUNICATION PULL BOX MEPSP_F EASEMENT, PERM., SHAPE SRSCT2 SHLD, CTY TOUR, 1-2 DIG. ₩ UGV GAS, VALVE POINT OF CURVATURE \bigcap SHLD, CTY TOUR, 3-4 DIG. ICTD SRSCT4 ∞ UGV1 GAS. VENT $-\otimes$ CONDUIT TURNING DOWN FEE ACQUISITION, APPROX. TRUCTURE, RECT., TYPE "X" 'X'' = I, K, L, M, O, P, UPOINT OF COMPOUND CURVATUR APCC ICTU 0 SRSI SHLD, INTERSTATE Э-Ф ULP LIGHTING, POLE i COOKI_1 CONDUIT TURNING UF FEE ACQUISITION, BACK LINE API POINT OF INTERSECTION ICVTR1 \Box SRSN2 SHLD, NATIONAL, 2 DIG. т. ULPN LIGHTING, POLE, MEDIAN COMM, VEH, ROAD TRANSCEIVER MESP FFF ACQUISITION, SHAPE **ENVIRONMENTAL** POINT OF BEGINNING \Box APOB `X**X** (<u>0</u>) LIGHTING, POLE, PED. Α **IDEFAUL** DEFAULT HIGHWAY BNDRY., APPROX. SRSN3 SHLD, NATIONAL, 3 DIG. ULPF CULV STR., INLET, OUTLET PROT. \odot O APOC POINT OF CURVATURE SRSS2 SHLD, STATE, 2 DIG. MISC. FILLER CAP **IEZR** E-ZPASS READER MHBCP HISTORICAL, BLDG. CORNERS POINT OF END 8 \bigcirc SRSS3 **-**Ø>-OIL. LINE MARKER Α (B) **IEZTR** TRANSMITTAL READER MHRE SHLD, STATE, 3 DIG. LIOL M HIGHWAY BNDRY, PT EIPGB_P STR., INLET PROT., GRAVEL BAG POINT ON LINE ⊚ \bigcirc APOL **IFOXCAB** FIBER OPTIC X-CONNECT CABINET MJCP PT., JURIS. CITY SRSS4 SHLD, STATE, 4 DIG. POLE. WITH UTILITY (FL) EIPEFL_P STR., INLET PROT., FILTER LOG **APOS** POINT ON SPIRAL **IFUSSPL** FUSION SPLICE **(** PT., BUILDING CORNER POLE, DEAD (NO UTILITY) TRAFFIC CONTROL POINT ON TANGENT 0 성성 THARADY POLE. WITH LIGHT PRFB HAR ADVISORY SIGN MPCC PT., CROSS CUT STR., INLET PROT., PREFAB. TCBJ BOX, JUNCTION POINT ON VERTICAL CURVE <u>S</u> **IHARST** PT., DRILL HOLE USME SANITARY SEWER MANHOLE HAR SITE TCBP BOX, PULL BOX (SF) STR., INLET PROT., SILT FENCE POINT ON VERTICAL TANGENT P Δ APOVT ILC MPF PT., FENCE LOCATION UTB TELEPHONE, BOOTH LOAD CENTER **TCBS** BOX. SPLICE POINT ON REVERSE CURVE 0 -\$-UTLM TELEPHONE, LINE MARKER **IMECSF** MECHANICAL SPLICE MPIF PT., IRON PIPE **ERCB** RISER, CONCRETE BOX \Box MICROCOMPUTER CABINET TCMC APT POINT OF TANGENCY IMSCS PORT. SPEED & COUNT SENSOR \odot PT., IRON ROD (T) UTMH TELEPHONE, MANHOLE ETRS_F TRAP. SEDIMENT TCPP PED POLE POINT OF VERTICAL CURVATURE **(** APVC -¢>-UTVLM CABLE TV, LINE MARKER IMSCTS MICRO SPEED & COUNT SENSOR MPM PT., MONUMENT +WETLAND FLAG **TCSH** SIGNAL HEADS POINT OF VERT, CMPND CURVE \blacksquare \bigcirc IMT MICROWAVE TRANSCEIVER МРММ PT., MONUMENT, MISC. UTVPE CABLE TV, PULL BOX \odot SIGNAL POLF TCSP **GEOTECHNICAL APVI** POINT OF VERT. INTERSECTION Ø O VMS IOVHVMS PERM. OVERHEAD VMS MPN PT., NAIL UUB UNKNOWN, BOX TRAFFIC WORK ZONE lacksquareGDH DRILL HOLE A POINT OF VERT, REVERSE CURVE PORT. ACCOU. SPD & CNT. SENSOR * PT., RAILROAD SPIKE UNKNOWN, JUNCTION BOX **TPASCS** MPR UUJE (0) APVT POINT OF VERTICAL TANGENCY **IPEDS** PEDESTRIAN SIGNAL HEAD 斑 **MPSP** PT., SPIKE • TWZAP_P ARROW PANEL UUMF UNKNOWN, MANHOLE LANDSCAPE ASC SPIRAL TO CURVE **IPSS** PAVEMENT SURFACE SENSOR PT., STAKE ARROW PANEL, CAUTION MODE UUPB MPS1 UNKNOWN, PULL BOX + LELS ELEVATION, SPOT **ASPI** SPIRAL POINT OF INTERSECTION PVMS (8) PT., TREE W/ WIRE ARROW PANEL, TRAILER OR SUPPOR **TPVMS** PERM. VMS MPTW 999 UUVL UNKNOWN. VALVE 6 LFP FLAG POLE ASTS SPIRAL TO SPIRAL IRM + PT., WALL LOCATION BARRICADE (TYPE III) RAMP METER UUVT UNKNOWN, VENT LMB MAILBOX SPIRAL TO TANGENT \wedge RWIS IRWIS RDWY WEATHER INFO, SENSOR CHANGEABLE MESSAGE SIGN (PVMS) **(** UUW UNKNOWN, WELL ROW ACQUISITION LPB PAPER BOX ATS TANGENT TO SPIRAL Q **ISP** SOLAR PANEL FL AGGER UWF WATER, FIRE HYDRANT 0 LPS: POST, SINGLE MFS_P_T FEE ACQUISITION AVEVI VERTICAL EVENT POINT FLAG TREE ISST SPREAD SPECT, TRANSCEIVER W UWM WATER, METER **(11)** LRB ROCK, BOULDER VERTICAL HIGH POINT ITDB TELEPHONE DEMARCATION BLK W UWMH WATER, MANHOLE CRASH CUSHION (TEMPORARY) MEPS_P_T EASEMENT, PERMANENT LSH SHRUB, CONIFEROUS VERTICAL LOW POINT AVLOW ITP SUBSURFACE TEMP. PROBE UMINAIRE (TEMPORARY) UWV WATER, VALVE LSHD SHRUB, DECIDUOUS EASEMENT, TEMPORARY **TVTRT** VEHICLE TO RDWY TRANSCEIVER ➡> SYMBOL, DIRECTION OF TRAFFIC **W** LIWW WATER, WELL BRIDGE LTC TREE, CONIFEROUS W/M TWIMD WEIGHT IN MOTION DETECTOR OCCUPANCY, TEMPORARY BSC BRIDGE, SCUPPER LTD TREE. DECIDUOUS **IWVR** WIRELESS VIDEO REPEATER SIGN (TEMPORARY) \Diamond LTS TREE, STUMP CONTROL FEE ACQUISITION W/O ACCESS IGNAL, TRAFFIC OR PEDESTRIAN **IWVRC** WIRELESS VIDEO RECEIVER Ø LTW TREE, WELL OR WALL മ \triangle CBP IWVTT WIRELESS VIDEO TRANSMITTER WARNING LIGHT BASELINE, POINT $TWZWL_P$ ROADWAY + UNKNOWN POINT LUKP \odot CBPOL BASELINE, POINT ON LINE WORK VEHICLE RES P FLEVATION, SPOT 1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED) WORK VEHICLE WITH TRUCK ຝ CBSP BASELINE, SPUR POINT TWZWVA_P MOUNTED ATTENUATOR \boxtimes RGA GUIDE RAIL, ANCHOR 2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, CBTP BASELINE, TIE POINT UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.). GUIDE POST, SINGLE 3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES. ₩ POINT, HORIZ, PHOTOGRAMMETRY CPH PIN 5813.11 ARGE CULVERT REPLACEMENTS AND REHABILITATIONS CONTRACT NUMBER ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED 4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER POINT, SURVEY MARKER, PERM D NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 CPSM LEGENDS, POINT SYMBOLOGY UTILITY QUALITY LEVEL D (0.015 in ON B SIZE DRAWINGS) OWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, POINT, VERT., PHOTOGRAMMETR DRAWING NO. LEG-02 5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND WEST SENECA, ORCHARD PARK AND EDEN SHEET NO. 04 OUNTIES: NIAGARA AND ERIE REGION: 05 6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES. NEW YORK Department of Transportation

FILE NAME = 581311_CPH_LEG_02.dgn DATE/TIME = 14-MAY-2021 10:02 USER = pmorelock

AFFIX SEAL:

GENERAL AND RECONSTRUCTION NOTES

THE DEGREE OF ACCURACY OF UTILITY LOCATIONS AND INFORMATION SHOWN IN THESE PLANS ARE AS DEFINED BELOW:

QUALITY LEVEL:

- A THE HIGHEST DEGREE OF ACCURACY: THE UTILITY INFORMATION ON THE CONTRACT PLANS HAS BEEN FIELD VERIFIED BY EXCAVATION, WHEN APPROPRIATE. (SHOWN AS QLA)
- B SUBSURFACE GEOPHYSICAL LOCATING TECHNIQUES, (UNDERGROUND CAMERAS, RADAR, SONAR, TONE OUTS, ETC.) AND EXISTING RECORD PLANS HAVE BEEN USED TO LOCATE UTILIITIES, NO EXCAVATIONS WERE PERFORMED. (SHOWN AS QLB)
- C RECORD INFORMATION PROVIDED BY UTILITY OWNERS WAS PLOTTED ON THE CONTRACT PLANS, DEPTHS WERE NOT FIELD VERIFIED. PHYSICAL SURFACE FEATURES SUCH AS MANHOLES, VALVE BOXES AN DHYDRANTS HAVE BEEN FIELD LOCATED. (SHOWN AS QLC)
- D EXISTING NYSDOT AND UTILITY COMPANY RECORDS WERE USED TO LOCATE SUBSURFACE UTILITIES. (SHOWN AS QLD)

THE CONTRACTORS ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASE ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIFLD CONDITIONS.

WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.

DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE TO ANY WATERS, NOR SHALL WASHING FROM CONCRETE TRUCKS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WATERS.

DESIGN SPECIFICATIONS: NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF OCTOBER 2012 (FOR DESIGN PURPOSES, COMPRESSIVE STREGTH OF CONCRETE FOR SUBSTRUCTURES AT 28 DAYS: f'c = 3000 psi)

CONSTRUCTION MATERIALS SPECIFICATION: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED SEPTEMBER 1, 2018, WITH CURRENT ADDITIONS AND MODIFICATIONS.

DETAILS ON THE DRAWINGS LABELED "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOW ARE DRAWN PORPORTIONAL AND ARE FULLY DIMENSIONED.

ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN USCUSTOMARY UNITS.

THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE STATE, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE STATE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

ALTERED BY:

CIN PLATE NOTE

IF A STRUCTURE HAS A CULVERT IDENTIFICATION NUMBER (C.I.N. PLATE ATTACHED), IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT IT DURING CONSTRUCTION OR REMOVE AND REMOUNT IT AFTER CONSTRUCTION IS COMPLETED.

DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM ORIGINAL DRAWINGS AND ARE NOT GUARENTEED. THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS AS ARE NECESSARY
TO ASSURE PROPER FIT OF THE FINISHED WORK, AND THE CONTRACTOR
SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY, WHEN SHOP
DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALLBE INDICATED FOR REFERENCE OF THE

THE CONTARCTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING AND GIVEN CONDITIONS AND DIMENSIONS WITH THOSE SHOWN ON THE PLANS. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THASE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS, AS APPROVED BY THE ENGINEER. THE RESULT OF THIS CHANGE SHALL BE NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL.

GUIDE RAIL NOTES

THE CONTRACTOR SHALL BE ALLOWED TO TEMPORARILY DISMANTLE EXISTING GUIDE RAIL IN ORDER TO ACCESS SITES ONLY WITH E.I.C. APPROVAL. ALL GUIDE RAIL DISMANTLED TO FACILITATE CONSTRUCTION OPERATIONS SHALL BE RESET WITHIN 14 DAYS FROM THE TIME THE GUIDE RAIL WAS DISMANTLED, UNLESS OTHERWISE NOTED IN THE PLANS, OR A.O.B.E. ONLY A MINIMUM LENGTH OF GUIDE RAIL REQUIRED FOR THE CONSTRUCTION OPERATION SHALL BE ALLOWED TO BE REMOVED.

WHERE A PORTION OF AN EXISTING GUIDE RAIL IS TEMPORARILY REMOVED, APPROPRIATE END SECTION TREATMENT SHALL BE INSTALLED SO THAT THE REMAINING GUIDE RAIL IS FUNCTIONAL.

AT LOCATIONS WHERE EXISTING GUIDE RAIL IS TO BE REMOVED AND REINSTALLED: THE WORK SHALL BE PREFORMED IN A TIMELY MANNER TO MINIMIZE THE TIME THE AREA IS WITHOUT GUIDE RAIL. TRAFFIC DRUMS (COST TO BE INCLUDED IN ITEM 619.01 BASIC WORK ZONE TRAFFIC CONTROL) SHALL BE INSTALLED AT 30 FT. INTERVALS OR A.O.B.E. THROUGHOUT THE WORK AREA WHEN RAIL IS REMOVED.

RIGHT-OF-WAY 105-15 FURNISHING RIGHT OF WAY

THE DEPARTMENT WILL SECURE ALL RIGHTS OF WAY IN ADVANCE OF CONSTRUCTION.
ANY EXCEPTION WILL BE INDICATED PRIOR TO THE AWARD OF THE CONTRACT.
THE CONTRACTOR SHALL NOT ENTER UPON ANY PARCEL UNTIL THE PROPER RIGHTS OF ENTRY

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT PERMANENT EASEMENTS (P.E.), TEMPORARY EASEMENTS (T.E.) AND TEMPORARY OCCUPANCIES (T.O.) ARE OBTAINED BY THE DEPARTMENT FOR SPECIFIC CONSTRUCTION PURPOSES. CONTRACTORS SHOULD NOT ANTICIPATE UNLIMITED USAGE OF SUCH AREAS AND SHALL CONFINE CONSTRUCTION ACTIVITIES TO SUCH PURPOSES AS ARE SPECIFICALLY DESCRIBED IN THE ROW APPROPRIATION MAPS AND/OR AS SHOWN ON THE PLANS UNLESS SEPERATE AGREEMENTS ARE MADE BETWEEN THE CONTRACTOR AND THE LANDOWNER PERMITTING OTHER USAGE OF SUCH AREAS. SUCH LIMITATIONS AND RELATED COSTS SHALL BE REFLECTED IN THE BID PRICES.

RELEASES MAY BE USED FOR CONTRACT WORK OUTSIDE OF THE EXISTING RIGHT OF WAY THAT MINIMIZES THE CONSTRUCTION IMPACTS ON A PROPERTY OWNER AND IS NOT ESSENTIAL FOR CONSTRUCTION. A RELEASE IS NOT USED FOR PROPERTY RIGHTS ACQUIRED BY THE CONTRACTOR, INCLUDING RENTAL PROPERTY FOR EQUIPEMENT STAGING, OFFICE SPACE OR MATERIAL STORAGE. WORK PERFORMED UNDER A RELEASE MAY INCLUDE: PLANTINGS; UNSOUND AND HAZARDOUS TREE REMOVAL: MINOR GRADING; AND RECONNECTION OR MINOR WORK ON PRIVARTE DRIVEWAYS, WALKWAYS AND UTILITIES AS A RESULT OF WORK

THE DEPARTMENT WILL SECURE ALL RELEASES PRIOR TO THE CONTRACTOR PERFORMING CONTRACT WORK ON PRIVATE PARCELS. THE CONTRACTOR MAY NOT SECURE RELEASES FOR CONTRACT WORK. IF A RELEASE CANNOT BE OBTAINED, THE WORK WILL BE REMOVED FROM THE CONTRACT. THE ENGINEER WILL COORDINATE WITH THE PROPERTY OWNER TO DETERMINE THE DISPOSITION OF ANY SURPLUS MATERIAL OR WASTE IN ACCORDANCE WITH 107-10 MANAGING SURPLUS MATERIAL AND WASTE.

WATERWAY DIVERSION STRUCTURE NOTES (ITEM 553.03nnnn NOTES:

- THE INTENT OF A WATERWAY DIVERSION STRUCTURE IS TO TEMPORARILY DIVERT OR PUMP WATER AROUND AN AREA (STREAM WORK AREA) SO THAT EXCAVATION OR OTHER WORK CAN BE ACCOMPLISHED. ITS PRIMARY PURPOSE IS TO PROVIDE WATER QUALITY PROTECTION.
- 2. STREAM FLOW IS TO BE MAINTAINED THROUGHOUT CONSTRUCTION. THIS MAY BE ACCOMPLISHED BY DIVERTING FLOW AROUND THE STREAM WORK AREA (E.G. USING TEMPORARY PIPES), DIVERTING WATER THROUGH THE STREAM WORK AREA (E.G. USING TEMPORARY PIPES) OR BY PUMPING FLOW AROUND OR THROUGH THE STREAM WORK AREA. MATERIALS USE FOR THE DIVERSION SHALL BE MADE OF NON-ERODIBLE MATERIALS AND CONFORM TO SECTION 553-2 OF THE NYS STANDARD SPECIFICATIONS. PAYMENT FOR THE TEMPORARY WATERWAY DIVERSION STRUCTURE SHALL BE MADE UNDER THE ITEM BID FOR 553.03nnnn.
- 3. DIVERTED STREAM FLOW SHALL NOT BE DIRECTED TO OR THROUGH UNSTABILIZED AREAS.
- 4. ONLY ONE PAYMENT WILL BE MADE FOR THE TEMPORARY WATERWAY DIVERSION STRUCTURE. EVEN IF THE CONTRACTOR ELECTS TO INSTALL MULTIPLE DIVERSION STRUCTURES AT THE SITE. THE COST OF ADJUSTING, MOVING OR EXTENDING THE TEMPORARY WATERWAY DIVERSION STRUCTURE DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE SIZE, LOCATION, MATERIALS AND STABILITY OF THE WATERWAY DIVERSION STRUCTURE FOR THE INTENDED WORK OPERATION AND FOR MAINTAINING CONTINUOUS FLOW THROUGH OR AROUND THE STREAM WORK AREA, AT LEAST 35 CALENDAR DAYS PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THREE COPIES OF THE TEMPORARY WATERWAY STRUCTURE DIVERSION PLAN TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
- 6. IF THE CONTRACTOR PROPOSES A WATER DIVERSION STRUCTURE METHOD WHICH INVOLVES THE PUMPING OF STREAM WATER, ALL WATER INTAKE HOSES SHALL BE SCREENED TO PROTECT AQUATIC LIFE. THE SCREEN OPENING SIZE SHALL BE NO
- NON -TURBID STORM WATER MAY BE DIRECTED AROUND THE STREAM WORK AREA AS LONG AS IT REMAINS NON -TURBID BEFORE ENTERING THE STREAM. MATERIALS NECESSARY TO ACCOMPLISH THIS SHALL BE PAID FOR UNDER THE
- 8. DEWATERING OPERATIONS SHALL NOT DISCHARGE, EITHER DIRECTLY OR INDIRECTLY, TO ANY WATER BODIES UNLESS THE DISCHARGE WATER IS AT LEAST AS FREE AND CLEAR OF SEDIMENT AS THE ADJACENT WATER BODY.
- 9. IF THE CONTRACTOR ELECTS TO LAY BACK AN EXCAVATION THAT IS ADJACENT TO THE TEMPORARY WATERWAY DIVERSION STRUCTURE, ANY REQUIRED EXTENSION OR ADJUSTMENT OF THE DIVERSION STRUCTURE TO PREVENT WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- 10. IF THE CONTRACTOR ELECTS TO USE WATER FROM THE STREAM FOR CONSTRUCTION PURPOSES, THE WITHDRAWL OF WATER SHALL NOT CAUSE A DECREASE IN WATER ELEVATION AT THE INTAKE SITE OR DOWNSTREAM OF THE SITE. WATER WITHDRAWL FOR CONSTRUCTION PURPOSES, IF REQUIRED, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE TEMPORARY WATERWAY DIVERSION STRUCTUPE. TITM FOR ACTION.
- 11. THE COST FOR ANY ADJUSTMENTS REQUIRED TO THE TEMPORARY WATERWAY DIVERSION STRUCTURE DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 533.03nnnn. IF A DIVERSION STRUCTURE IS USED TO DIVERT THE CREEK FLOW. THE STRUCTURE MUST ALLOW THE PASSAGE OF AQUATIC LIFE, MAINTAIN WATER RIGHTS, AND SUSTAIN FISH LIFE DOWNSTREAM. PAYMENT FOR ANY WORK REQUIRED BY THESE CONDITIONS SHALL BE INCLUDED IN THE INNIT POICES BID FOR ITEM 553.030nnn. IN THE UNIT PRICES BID FOR ITEM 553.03nnnn.
- 12. IF NO WATER IS PRESENT AT THE TIME OF WORK IN THE AREA WITH A SERIALIZED WATERWAY DIVERSION STRUCTURE CALLED OUT ON THE PLANS, AND NO WATERWAY DIVERSION STRUCTURE IS REQUIRED A.O.B.E., NO PAYMENT WILL BE MADE FOR THAT SERIALIZED ITEM NUMBER. UNDER THESE CIRCUMSTANCES WHERE WATERWAY DIVERSION STRUCTURE IS NOT REQUIRED, THE CONTRACTOR SHALL PLACE ONE OR MORE CHECK DAMS (DITCH WIDTH > 10') GRAVEL BAG TEMPORARY (PAID UNDER ITEM 209.110204, AT THE OUTLET OF THE CULVERT (LOCATION A.O.B.E.) TO CATCH ANY TURBID WATER FROM LEAVING

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN ft UNLESS OTHERWISE I | NOTED | CONTRACT NUMBER |
|--|--|-------------------------|---------|-------------------------------|---|-------|--------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | C550004 C530038 CA00252 | GENERAL NOTES | | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTICITY GORCITY ELVEL D | | CAUU252 C530138 | | | DDAWING NO ONN OA |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | C530138 C530075 C530008 | | | DRAWING NO. GNN-01 |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | C540063 | | | SHEET NO. 05 |
| | · | | | | · | | |

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

GENERAL NOTES - WORK ZONE TRAFFIC CONTROL (WZTC)

- 1. NO LANE CLOSURES WILL BE ALLOWED DURING NON-WORKING HOURS. NO LONGITUDINAL LANE DROP-OFFS WILL BE ALLOWED AT THE END OF THE WORK DAY. THE CONTRACTOR SHALL PROGRESS OPERATIONS IN A MANNER WHICH WILL PROVIDE THAT THE OPERATION BEING PERFORMED ON A PARTICULAR SECTION OF ROADWAY WILL BE COMPLETED BY THE END OF THE WORKDAY UNLESS OTHERWISE APPROVED BY THE ENGINEER IN CHARGE.
- 2. THE CONTRACTOR SHALL NOT MIX DELINEATION DEVICES IN A LINEAR CLOSURE OR TAPER. HOWEVER, DIFFERENT DELINEATION DEVICES MAY BE USED IN DIFFERENT AREAS OF THE PROJECT.
- 3. VEHICLES BELONGING TO THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC WITHIN THE PROJECT LIMITS.
- 4. ALL TRAVEL AND PARKING LANES SHALL BE CLEARED OF ALL OBSTRUCTIONS, INCLUDING TRAFFIC CONTROL DEVICES, AND MADE SAFE FOR TRAVEL AND RETURNED TO SERVICE AT THE CONCLUSION OF EACH WORKDAY.
- 5. WHEN ITEM 619.04 TYPE III BARRICADES ARE USED NEAR DRIVEWAYS OR INTERSECTIONS THEY SHALL BE PLACED IN SUCH A WAY AS TO NOT OBSCURE SIGHT DISTANCE.
- 6. SHOULDER CLOSURE SHALL REMAIN IN EFFECT WHEN THERE IS A LIP AT THE EDGE OF TRAVEL DUE TO MILLING.
- 7. SIGN LOCATIONS ARE APPROXIMATE; EXACT LOCATIONS SHALL BE DETERMINED BY THE
- 8. THE FLAGGER STATION AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM
- 9. "FLAGGER" SIGNS SHALL BE USED WHENEVER FLAGGING OCCURS FOR MORE THAN A BRIEF PERIOD OF TIME. THE SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES.
- 10. CONTRACTOR IS ADVISED THAT PVMS BOARDS SHALL BE USED AT EACH END OF THE PROJECT WHILE WORK IS BEING PERFORMED.
- 11. TEST THE PVMS'S CELLULAR COMMUNICATION LINK TWO WEEKS PRIOR TO ANTICIPATED USE. CONTACT NITTEC AT 716-847-3258 (24-7). SEE NITTEC PORTABLE VMS, REQUEST
- 12. MESSAGES FOR THE PVMS ARE TO BE UPLOADED BY NITTEC (716-847-2070, 24-7) PER
- 13. USE OF PVMS TO NOTIFY THE TRAVELING PUBLIC OF ROADWORK WITH THE MESSAGE(S) IN THE TABLE BELOW. REFER TO WZTC PLANS FOR PVMS LOCATIONS.

| TABLE 1: PVMS MESSAGES TO BE USED | | | | | | | | |
|-----------------------------------|---------------------------|--|--|--|--|--|--|--|
| MESSAGE 1 | MESSAGE 2 | MESSAGE DURATION | | | | | | |
| ROADWORK STARTS XX/XX/XX | EXPECT DELAYS | PRE-CONSTRUCTION: ONE WEEK PRIOR | | | | | | |
| ROAD Work Ahead | EXPECT DELAYS | DURING Lane Closures | | | | | | |
| GROOVED PAVEMENT AHEAD | BIKERS USE CAUTION | DURATION OF EXPOSED GROOVED SURFACE | | | | | | |
| TRAFFIC SIGNAL AHEAD | BE PREPARED TO STOP | DURING TEMPORARY SIGNAL OPERATION | | | | | | |

DURING OTHER OPERATIONS, PVMS SHOULD DISPLAY REAL TIME INFORMATION.

| MANAGE | | | | | | | |
|---------------|--|--------------------|--|--|--|--|--|
| JOB MA | | ALTERED BY: ON: | | | | | |
| S.S. VAIDYA | | | | | | | |
| SUPERVISOR 5. | | | | | | | |

GENERAL NOTES - PAVEMENT MARKINGS

- 14. THE NEW PAVEMENT MARKINGS LAYOUT SHALL MATCH THE EXISTING PAVEMENT MARKING CONFIGURATION UNLESS OTHERWISE SPECIFIED IN THE PLANS. A RECORD DEPICTING ALL EXISTING PAVEMENT MARKINGS, INCLUDING THE STOP BARS AND CROSS WALKS ON THE INTERSECTING ROADWAYS SHALL BE PREPARED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORK THAT WILL DESTROY OR OBSCURE THE EXISTING MARKINGS. ONE COPY OF THIS RECORD WILL BE GIVEN TO THE ENGINEER IN CHARGE (EIC). THE EIC SHALL FIELD VERIFY THE ACCURACY OF THE PAVEMENT MARKING PLAN PROVIDED BY THE CONTRACTOR PRIOR TO ANY PAVEMENT MILLING/OVERLAY.
- 15. SEE STANDARD SHEETS 685-01 FOR PLACEMENT DETAILS.

THE FINAL EPOXY PAVEMENT STRIPES CAN BE PLACED.

GENERAL NOTES - TEMPORARY PAVEMENT MARKINGS, STRIPES

- 16. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY PAVEMENT MARKINGS BEFORE THE FINAL STRIPING IS APPLIED. ANY AREAS THAT THE ENGINEER DEEMS NECESSARY TO BE RESTRIPED SHALL BE COMPLETED BEFORE THE END OF THE WORK DAY. CONTRACT ITEMS USED:
- A. ITEM 619.0901 TEMPORARY PAVEMENT MARKINGS, STRIPES (TRAFFIC PAINT) THIS ITEM IS USED TO PROVIDE TEMPORARY MARKINGS ON MILLED SURFACES.
- B. ITEM 640.10 & 640.11 WHITE/YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES IF FINAL EPOXY MARKINGS CANNOT BE PLACED AT THE COMPLETION OF DAILY PAYING OPERATION, THEN THESE ITEMS WILL BE USED TO PROVIDE TEMPORARY MARKINGS UNTIL

TIME RESTRICTIONS SITE # | CULVERT | ROUTE | DIRECTION LIMITS TIME RESTRICTIONS 3 CA00252 1-990 NB AUDUBON PKWY TO NORTH FRENCH RD 3 PM - 6 PM 7 AM - 9 AM C530138 I-990 NORTH FRENCH RD TO AUDUBON PKWY 4 PM - 6 PM 6 AM - 9 AM NB C530075 NY 277 SENECA ST TO WEHRLE DR 3 PM - 6 PM 6 AM - 9 AM SB WEHRLE DR TO SENECA ST C530075 NY 277 3 PM - 6 PM C530008 US 20 FR MICHAEL RD TO NY RTE 400 3 PM - 6 PM 5 C530008 US 20 WB NY RTE 400 TO MICHAEL RD 3 PM - 6 PM

PEDESTRIAN ACCOMODATION THROUGH WORK ZONE

17. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH THE ABILITY OF PEDESTRIANS TO MOVE THROUGH THE WORK ZONE, AS SHOWN IN STANDARD SHEETS 619-50 AND 619-51. IN AREAS WHERE THERE ARE NO SIDEWALKS, IT IS EXPECTED THAT PEDESTRIANS WILL USE THE ROAD OR SHOULDER. IN AREAS WITH SIDEWALKS AND CURB RAMPS, THE PEDESTRIAN PATH THROUGH THE WORK ZONE SHALL MAINTAIN ACCESSABILITY, AS DEFINED IN 619-3.02C OF THE VISDOT STANDARD SPECIFICATIONS AND THE AMERICANS WITH DISIBILITY ACT(ADAAG). THE CONTRACTOR SHALL NOT DIVERT PEDESTRIAN TRAFFIC ONTO GRASS AREAS OR OTHER SURFACES THAT ARE NOT FIRM AND STABLE ADBE. PEDESTRIANS SHALL BE DIRECTED, WITH ADVANCED SIGNAGE, TO CROSS AT AN ACCEPTABLE LOCATION PRIOR TO ENTERING A SHOULDER OR LANE CLOSURE WORK ZONE. WHERE POSSIBLE THESE SIGNS SHALL BE PLACED AT SHOULDER OR LANE CLOSURE WORK ZONE. WHERE POSSIBLE THESE SIGNS SHALL BE PLACED AT INTERSECTIONS PRIOR TO THE WORK ZONE RATHER THAN AT THE WORK ZONE TO MINIMIZE PEDESTRIAN

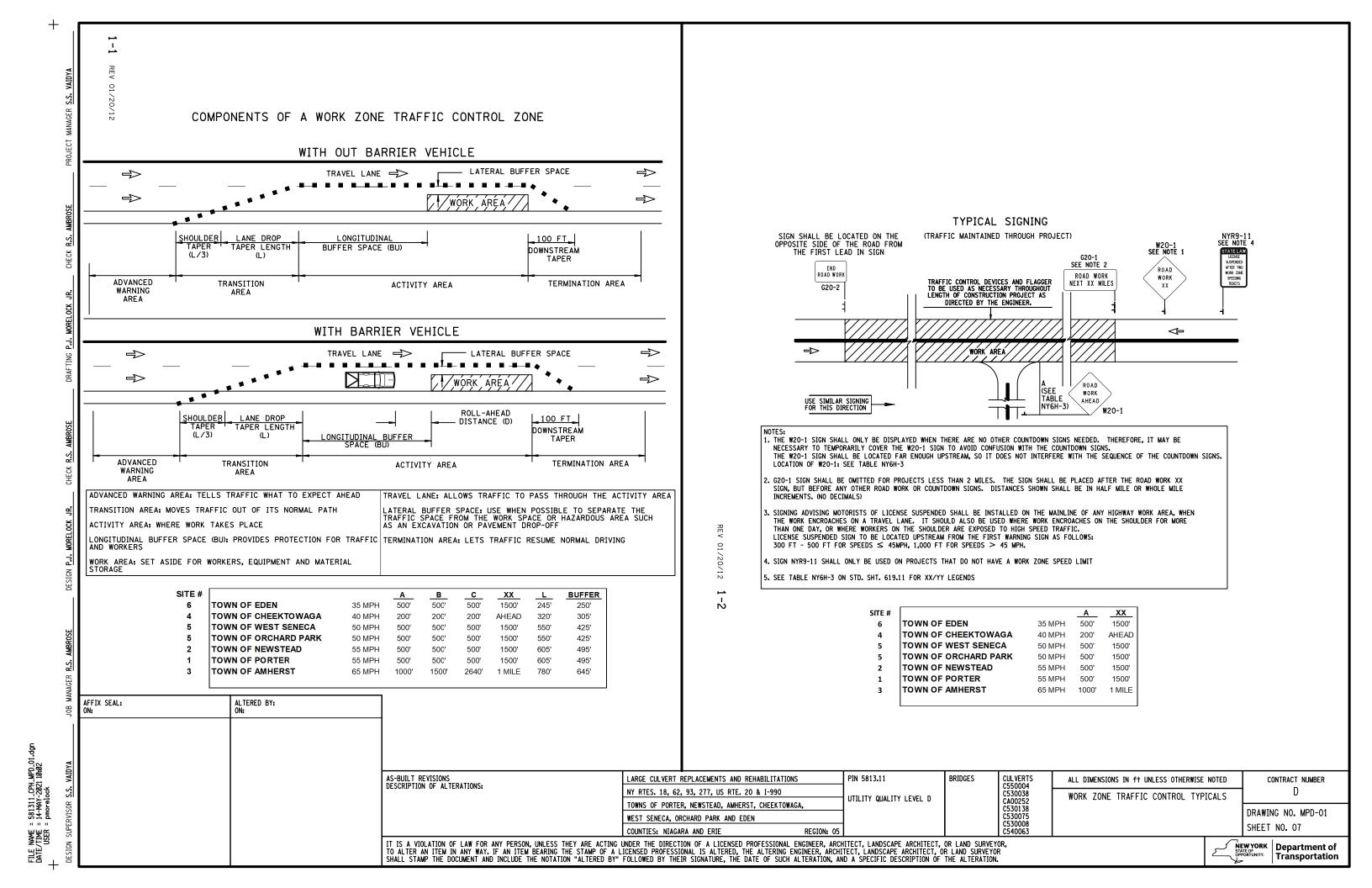
BICYCLIST ACCOMODATION THROUGH WORK ZONE

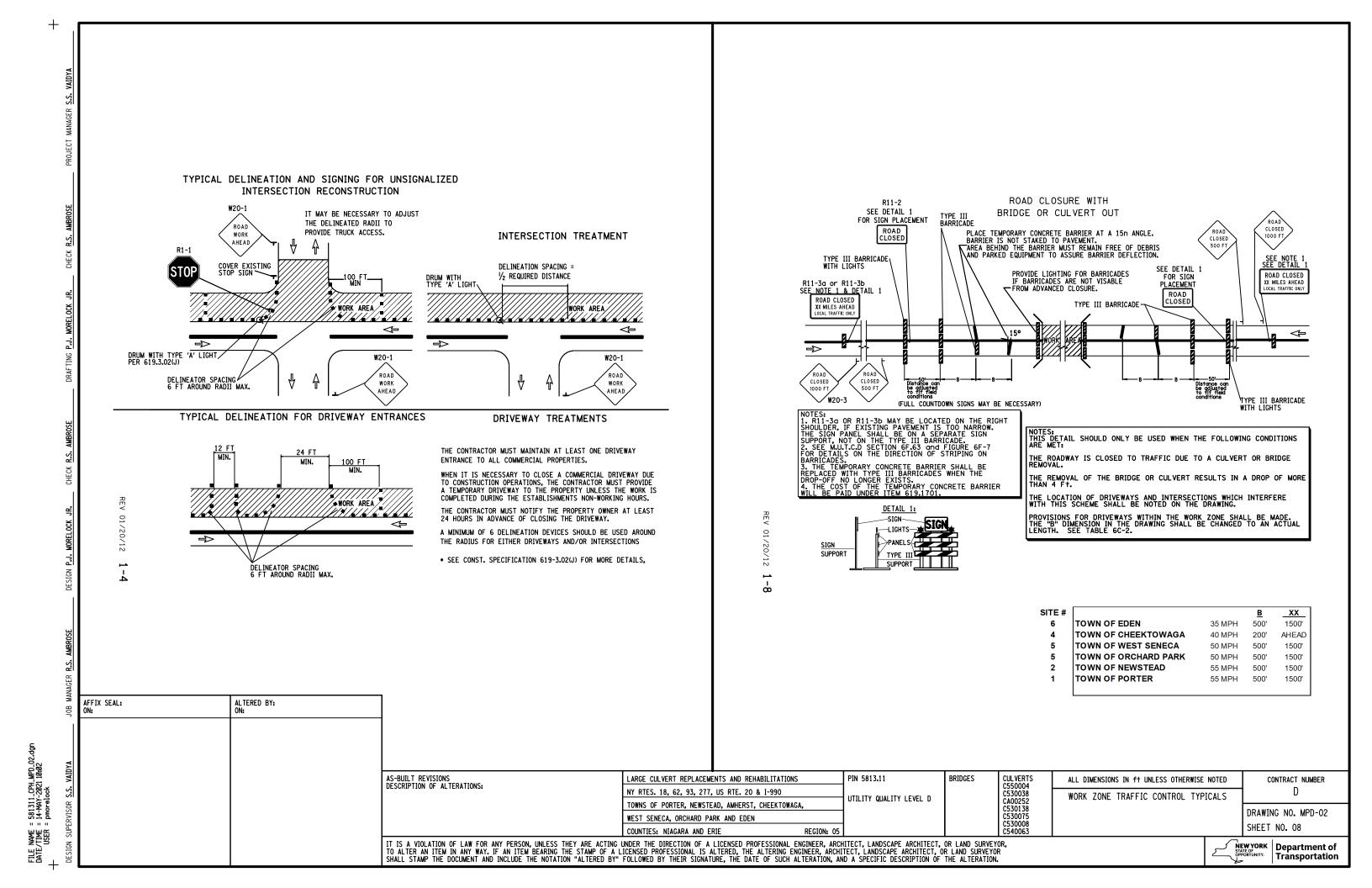
THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH THE ABILITY OF BICYCLISTS TO MOVE THROUGH THE WORK ZONE. THIS ROUTE DOES NOT HAVE DEDICATED BIKE ROUTE PACILITIES. IF THE WZTC PLANS ARE TO INCLUDE A SHOULDER CLOSURE, BICYCLISTS WILL NEED TO SHARE THE LANE WITH MOTORISTS. WZTC PLANS SHALL INCLUDE THE APPROPRIATE SIGNAGE TO WARN BOTH THE BICYCLISTS AND THE MOTORISTS OF THE CHANGE TO A TEMPORARY SHARED LANE FACILITY. THE CONTRACTOR SHALL INSTALL "BICYCLE WARNING" SIGNS (W11-1) WITH "IN LANE" SIGNS (NYW5-32P) AS DIRECTED BY THE E.I.C., UTILIZE SIGNS AS PER TSMI 13-07.

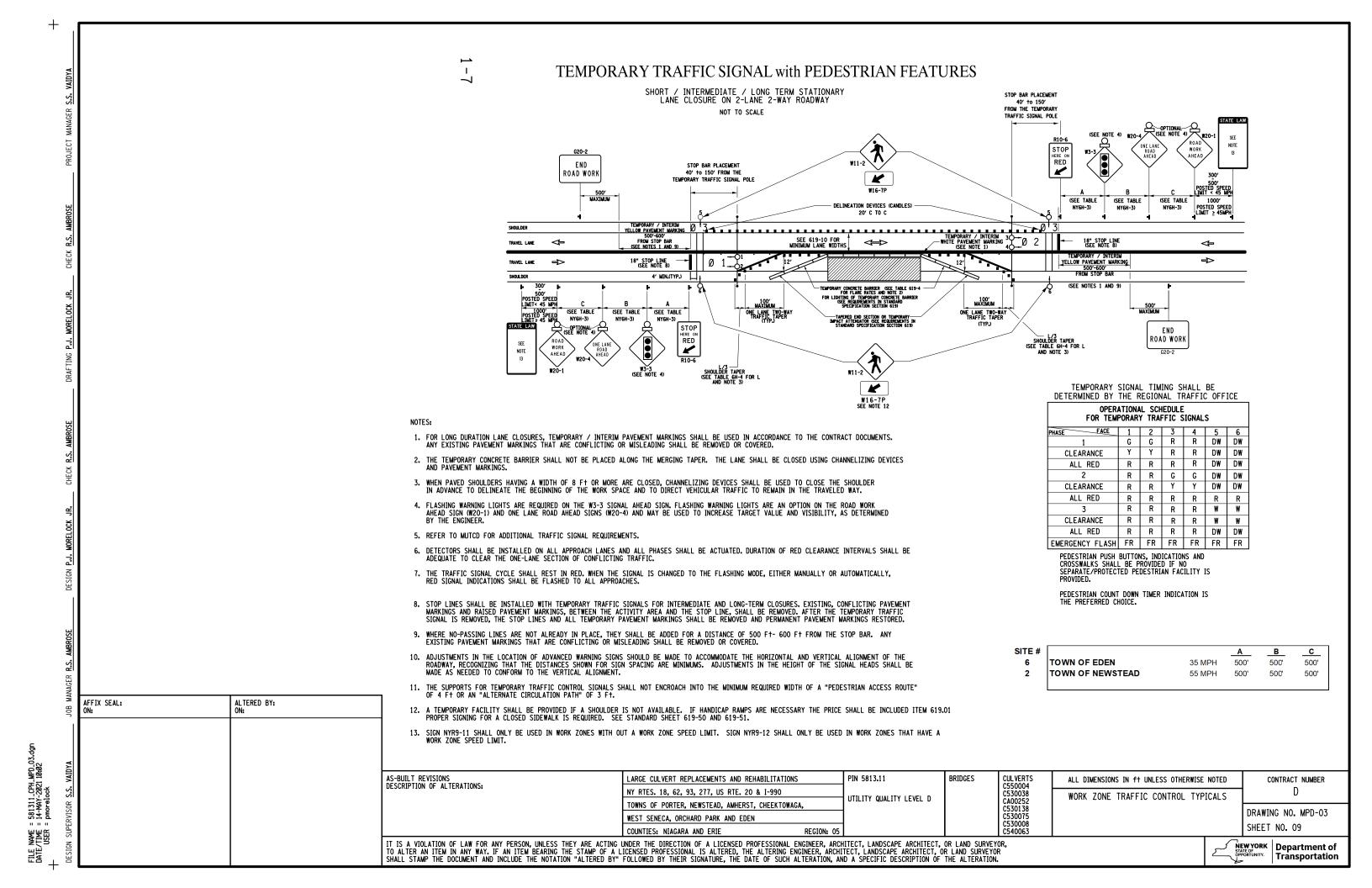
TRAFFIC CONTROL INFORMATION

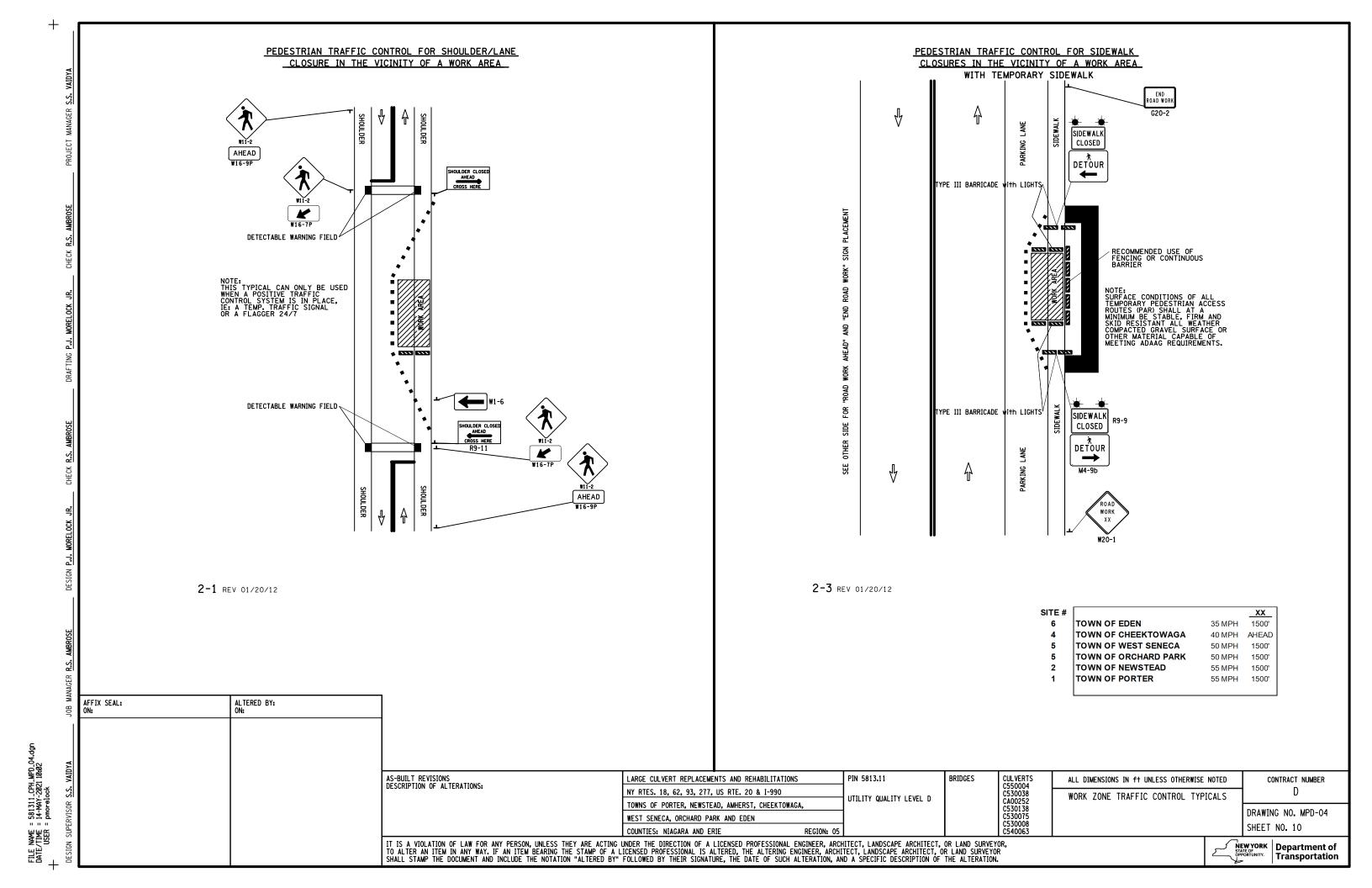
| THE TO CONTINUE THE CHIRALTON | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| SITE 1: C550004 1. REFR TO DWG. NOS. MPD-01, 02, 04, 05, 08, 09, 10 FOR WORK ZONE TRAFFIC CONTROL. | | | | | | | | |
| SITE 2: C530038 1. REFR TO DWG. NOS. MPD-01, 02, 04, 05, 08, 09, 10 FOR WORK ZONE TRAFFIC CONTROL. | | | | | | | | |
| SITE 3: CA00252 1. REFR TO DWG. NOS. MPD-01, 08, 09 FOR WORK ZONE TRAFFIC CONTROL. | | | | | | | | |
| SITE 3: C530138 1. REFR TO DWG. NOS. MPD-01, 08, 09 FOR WORK ZONE TRAFFIC CONTROL. | | | | | | | | |
| SITE 4: C53Q075 1. REFR TO DWG. NOS. MPD-01, 02, 04, 05, 06, 07, 08, 09, 10 FOR WORK ZONE TRAFFIC CONTROL. | | | | | | | | |
| SITE 5: C530008 1. REFR TO DWG. NOS. MPD-01, 02, 04, 05, 06, 07, 08, 09, 10 FOR WORK ZONE TRAFFIC CONTROL. | | | | | | | | |
| <u>SITE 6: C54Q063</u> 1. REFR TO DWG. NOS. MPD-01, 02, 03, 04, 05, 08, 09, 10 FOR WORK ZONE TRAFFIC CONTROL. | | | | | | | | |
| | | | | | | | | |

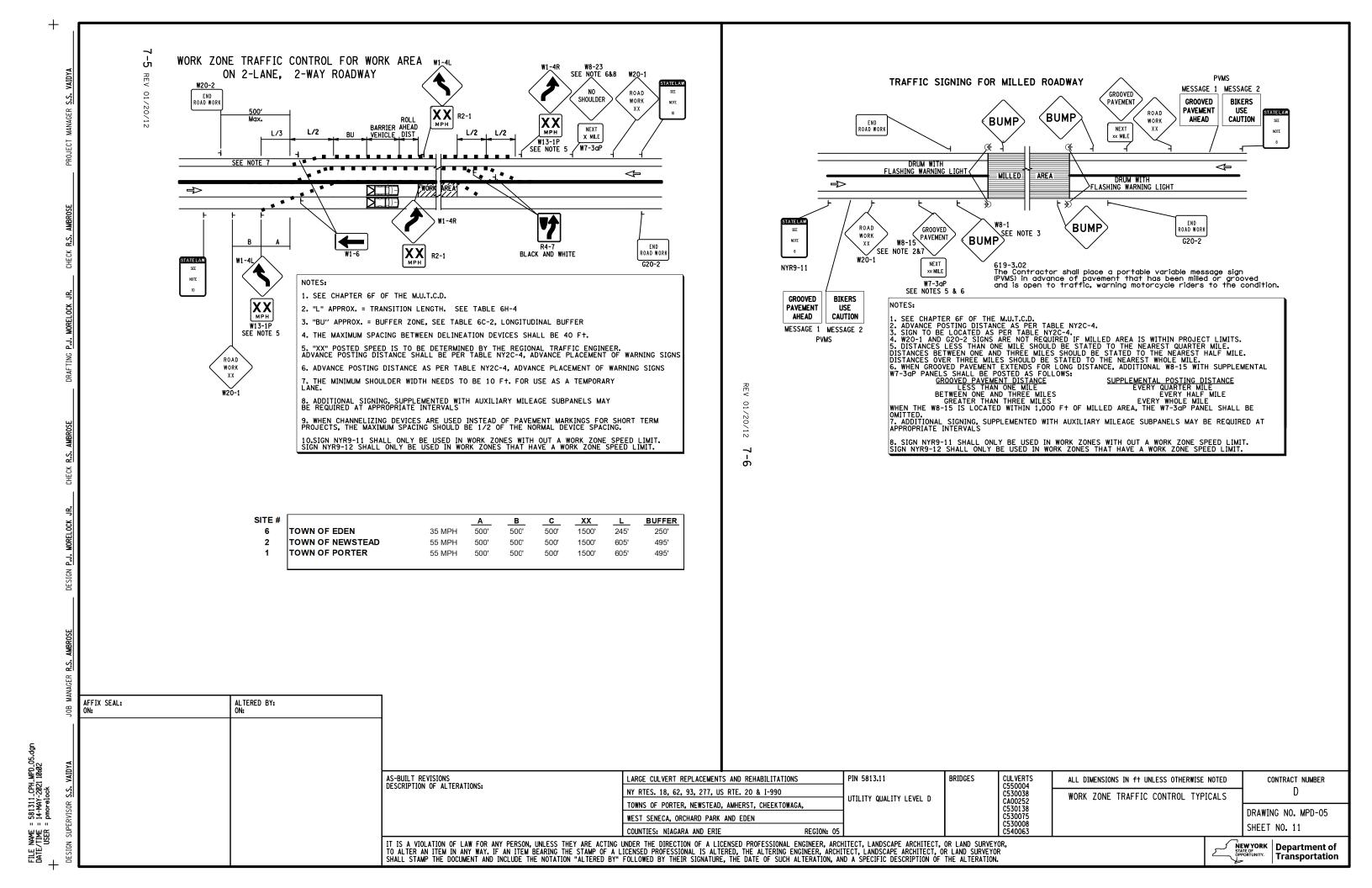
| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 UTILITY QUALITY LEVEL D | BRIDGES | CUL VERTS C550004 C530038 CA00252 C530138 | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | | CONTRACT NUMBER | |
|--|--|--|---------|---|---|--|------------------------------|--|
| | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | | | | WORK ZONE TRAFFIC CONTROL NOTES | | D | |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | | | | | | | |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | C530075 | | | DRAWING NO. MPN-01 | |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | C530008 C540063 | | | SHEET NO. 06 | |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. | | | | | | | Department of Transportation | |

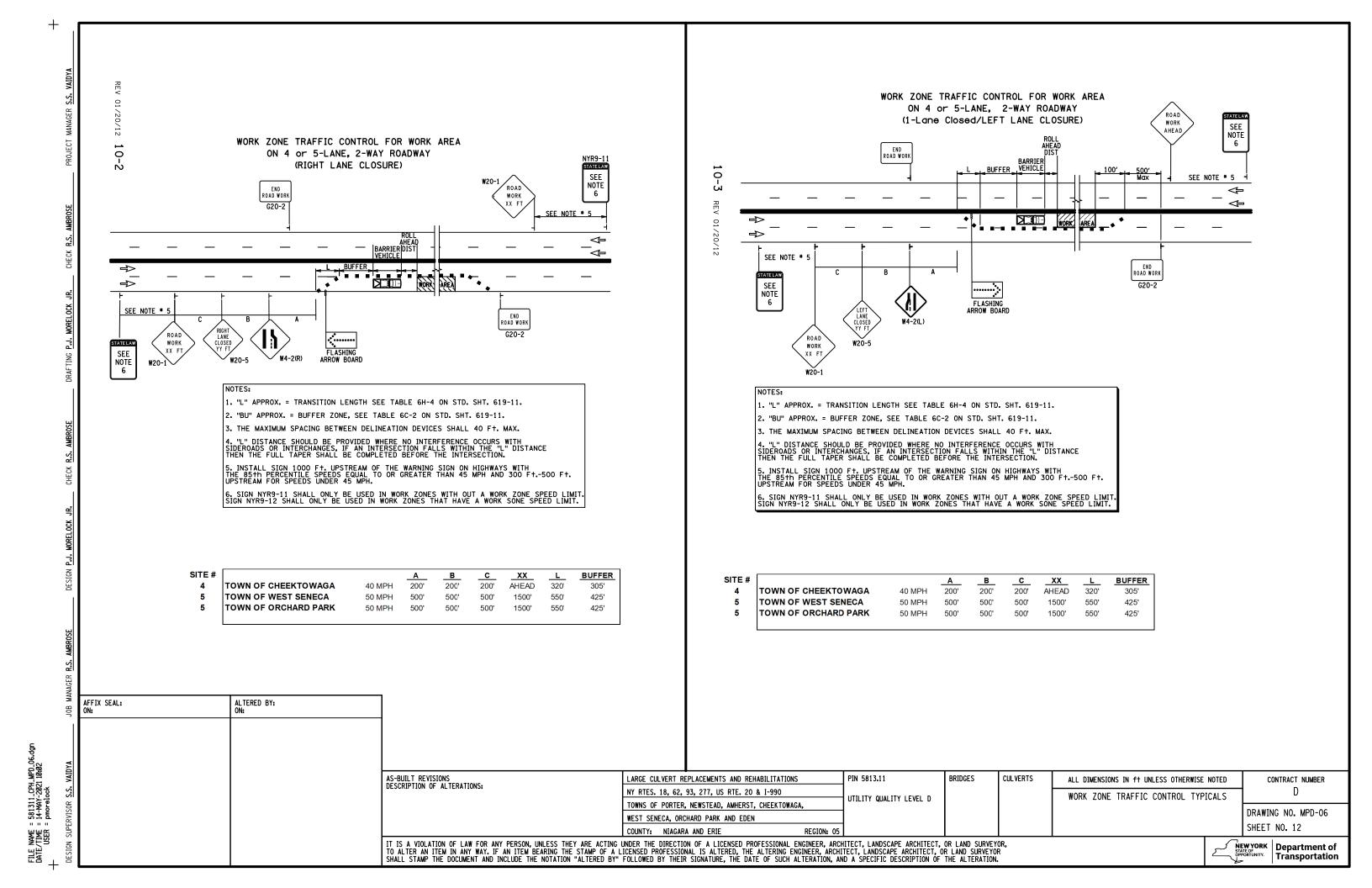


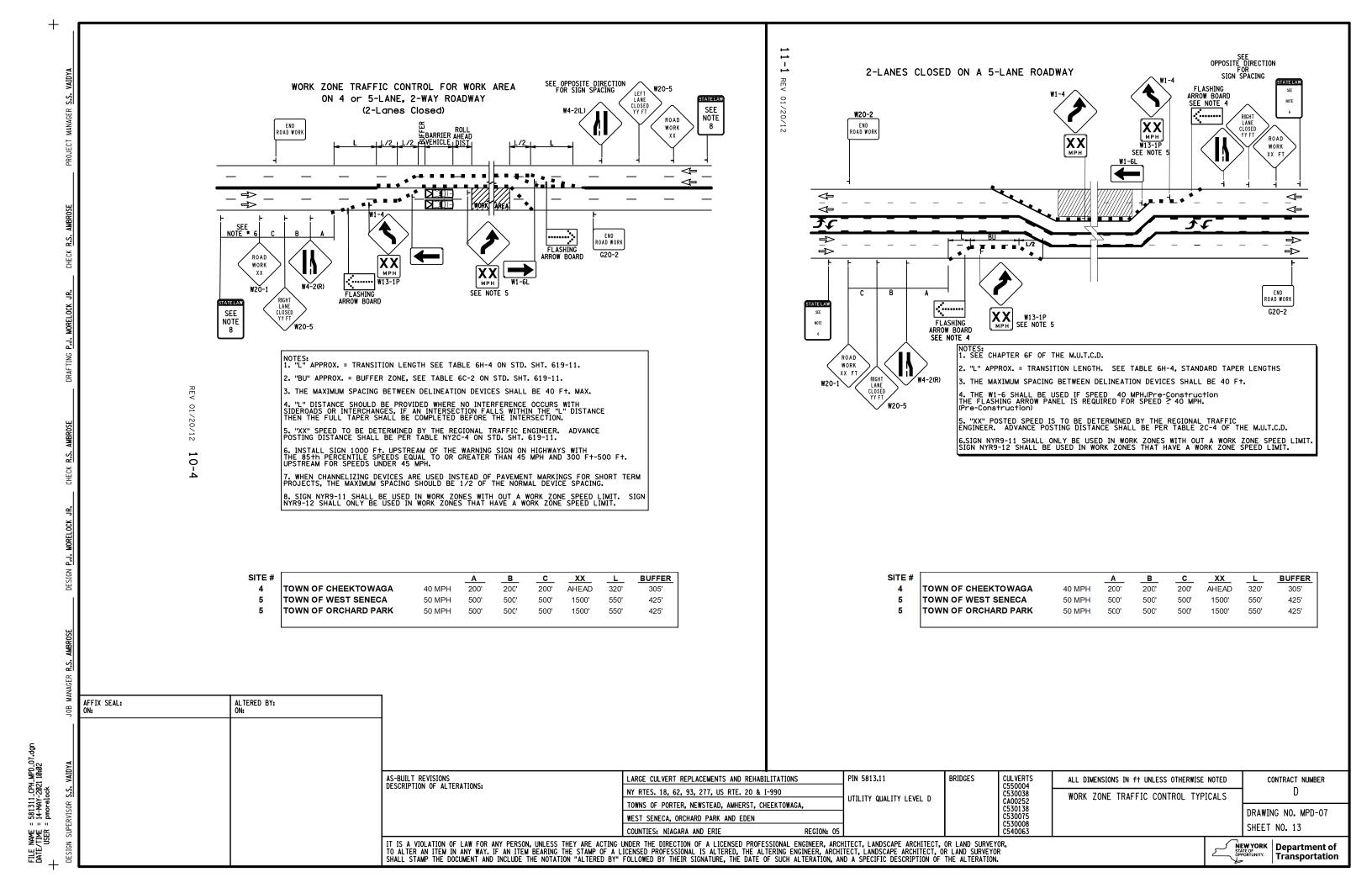


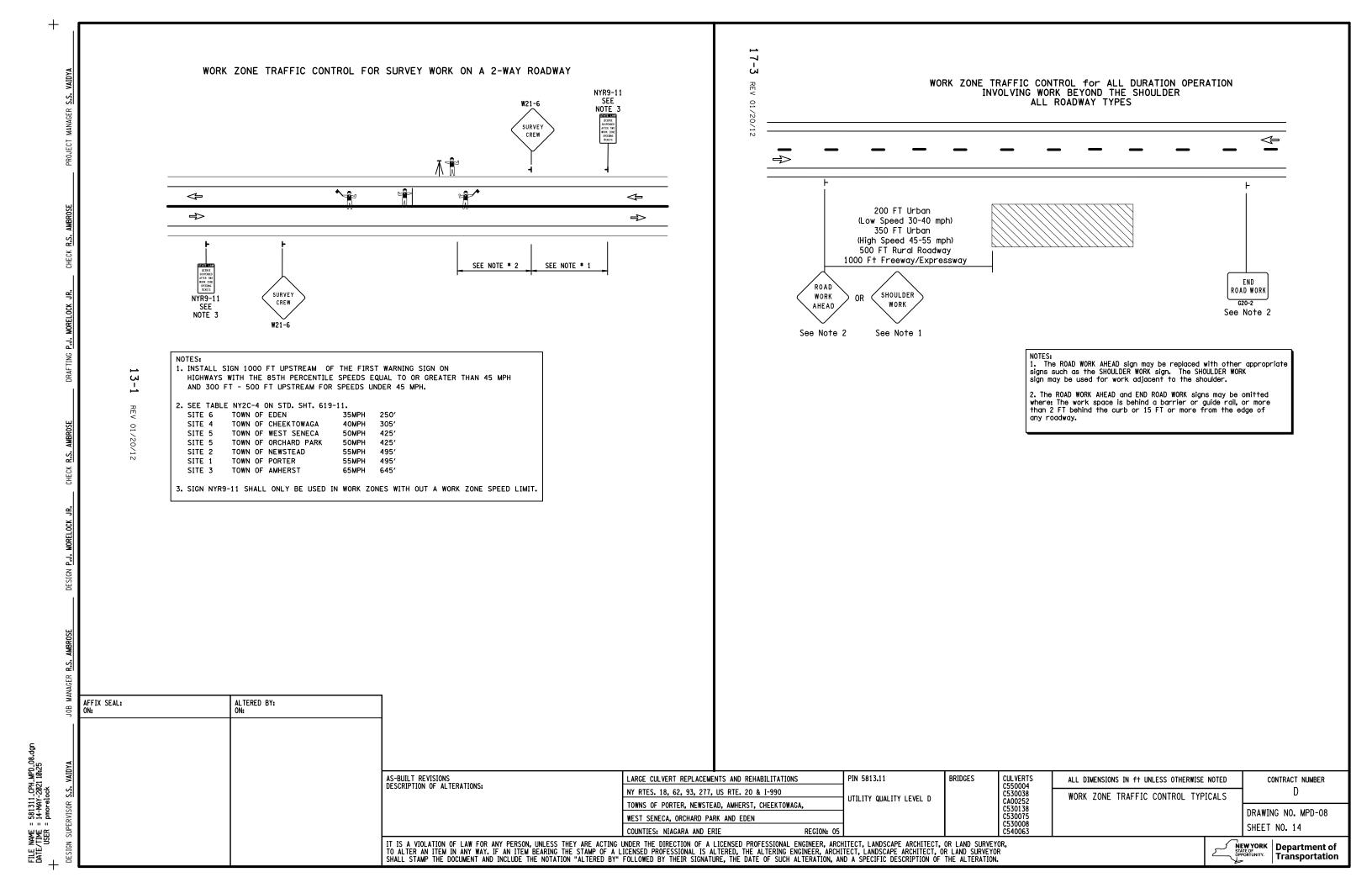












SHOULDER CLOSURE SHOULDER CLOSURE 2-LANE 2-WAY ROADWAY EXPRESSWAY / FREEWAY (NOT TO SCALE) (NOT TO SCALE) STANDARD SHEET 619-20 STANDARD SHEET 619-22 EFFECTIVE DATE: 01/07/2010 EFFECTIVE DATE: 01/08/2009 NOTES: NOTES: 8. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'. 8. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'. SITE# SITE# XX BUFFER _c_ XX BUFFER TOWN OF EDEN 35 MPH 500' 500' 500' 1500' TOWN OF AMHERST 1000' 1500' 2640' 1 MILE 250' 780' 645' 2 TOWN OF NEWSTEAD 55 MPH 500' 500' 500' 1500' 605' 495' TOWN OF PORTER 55 MPH 500' 500' 500' 1500' 605' 495' SEE TABLE NY6H-3 ON STD. SHT. 619.11 FOR XX LEGENDS SEE TABLE NY6H-3 ON STD. SHT. 619.11 FOR XX LEGENDS DOUBLE INTERIOR LANE CLOSURE SINGLE LANE CLOSURE MULTI LANE HIGHWAY MULTI LANE HIGHWAY / EXPRESSWAY / FREEWAY (NOT TO SCALE) (NOT TO SCALE) STANDARD SHEET 619-41 STANDARD SHEET 619-32 EFFECTIVE DATE: 01/08/2009 EFFECTIVE DATE: 01/08/2009 3. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'. SITE# _XX_ BUFFER **TOWN OF CHEEKTOWAGA** 40 MPH 200' 200' 200' AHEAD 320' TOWN OF WEST SENECA 50 MPH 500' 500' 500' 1500' 550' 425' SITE# BUFFER TOWN OF ORCHARD PARK 50 MPH 500' 500' 500' 1500' 550' 425' TOWN OF CHEEKTOWAGA 40 MPH 200' 200' 200' AHEAD 320' 305' TOWN OF AMHERST 65 MPH 1000' 1500' 2640' 1 MILE 780' 645' 5 TOWN OF WEST SENECA 50 MPH 500' 500' 500' 1500' 550' 425' TOWN OF ORCHARD PARK 50 MPH 550' 500' 500' 500' 1500' 425' SEE TABLE NY6H-3 ON STD. SHT. 619.11 FOR XX LEGENDS SEE TABLE NY6H-3 ON STD. SHT. 619.11 FOR XX LEGENDS ALTERED BY: ON: AFFIX SEAL: = 581311_CPH_MPD_09.d = 14-MAY-2021 10:02 } = pmoreloci AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: CULVERTS C550004 ARGE CULVERT REPLACEMENTS AND REHABILITATIONS PIN 5813.11 ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER C530004 C530038 CA00252 C530138 C530075 C530008 D NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 WORK ZONE TRAFFIC CONTROL TYPICALS UTILITY QUALITY LEVEL D TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, DRAWING NO. MPD-09 WEST SENECA, ORCHARD PARK AND EDEN SHEET NO. 15 COUNTIES: NIAGARA AND ERIE IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NEW YORK
STATE OF OPPORTUNITY.

Department of Transportation Transportation

FLAGGING OPERATION TEMPORARY TRAFFIC SIGNAL 2-LANE 2-WAY ROADWAY 2-LANE 2-WAY ROADWAY (NOT TO SCALE) (NOT TO SCALE) STANDARD SHEET 619-60 STANDARD SHEET 619-62 EFFECTIVE DATE: 01/07/2010 EFFECTIVE DATE: 01/08/2009 NOTES: 5. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'. SITE# XX_ BUFFER SITE# BUFFER <u>B</u> XX TOWN OF EDEN 35 MPH 500' 500' 500' 1500' 250' TOWN OF EDEN 35 MPH 500' 500' 500' 1500' 245' 250' 2 TOWN OF NEWSTEAD 55 MPH 500' 500' 500' 1500' 605' 495' TOWN OF NEWSTEAD 55 MPH 2 500' 500' 500' 1500' 605' 495' TOWN OF PORTER 55 MPH 500' 500' 500' 1500' 605' 495' TOWN OF PORTER 55 MPH 500' 500' 500' 1500' 605' 495' SEE TABLE NY6H-3 ON STD. SHT. 619.11 FOR XX LEGENDS SEE TABLE NY6H-3 ON STD. SHT. 619.11 FOR XX LEGENDS SINGLE LANE SHIFT SINGLE LANE SHIFT 2-LANE 2-WAY ROADWAY WITH CENTER TURN LANE 2-LANE 2-WAY ROADWAY WITH CENTER TURN LANE (NOT TO SCALE) STANDARD SHEET 619-63 (NOT TO SCALE) STANDARD SHEET 619-64 EFFECTIVE DATE: 01/08/2009 EFFECTIVE DATE: 01/08/2009 3. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'. 4. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'. SITE# BUFFER XX SITE# TOWN OF CHEEKTOWAGA 40 MPH 200' 200' 200' 320' BUFFER AHEAD 305' XX TOWN OF WEST SENECA 50 MPH 500' **TOWN OF CHEEKTOWAGA** 40 MPH 200' 200' 200' AHEAD 320' 305' 5 500' 500' 1500' 550' 425' TOWN OF WEST SENECA TOWN OF ORCHARD PARK 5 50 MPH 500' 500' 500' 1500' 550' 425' 50 MPH 500' 500' 500' 1500' 550' 425' TOWN OF ORCHARD PARK 50 MPH 500' 500' 500' 1500' 550' 425' SEE TABLE NY6H-3 ON STD. SHT. 619.11 FOR XX LEGENDS SEE TABLE NY6H-3 ON STD. SHT. 619.11 FOR XX LEGENDS ALTERED BY: ON: AFFIX SEAL: = 581311_CPH_MPD_10.dgr = 14-MAY-2021 10:03 = pmorelock AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: ARGE CULVERT REPLACEMENTS AND REHABILITATIONS PIN 5813.11 CULVERTS C550004 ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER C530004 C530038 CA00252 C530138 C530075 C530008 D NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 WORK ZONE TRAFFIC CONTROL TYPICALS UTILITY QUALITY LEVEL D TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, DRAWING NO. MPD-10 WEST SENECA, ORCHARD PARK AND EDEN SHEET NO. 16 COUNTIES: NIAGARA AND ERIE IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NEW YORK
STATE OF OPPORTUNITY.

Department of Transportation Transportation

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| S.S. | |
| MANAGER | |
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FILE NAME = 581311_CPH_MUD_TBL DATE/TIME = 14-MAY-2021 10:03 HUSER = pmorelock

| | MAINTENANCE JURISDICATION TABLE | | | | | | | | | | |
|----------|-----------------------------------|----------------------------|---|---------|------------|--------|--|--|--|--|--|
| PART NO. | HIGHWAY | LIMITS | FEATURE TO BE MAINTAINED | € MILES | LANE MILES | AGENCY | AUTHORITY FOR MAINTENANCE JURISDICTION | | | | |
| 1 | NY 18 SH 8306 C550004 | 246+50 TO A 251+00 | MAINLINE ROADWAYS INCLUDING PAVEMENT, SHOULDERS, DRAINAGE SYSTEMS, GUIDERAIL, SNOW REMOVAL, AND STRUCTURE. | 0.09 | 0.17 | NYSDOT | HIGHWAY LAW ARTICLE 12B, SECTION 349-C ARTICLE 2, SECTION 10 | | | | |
| 2 | NY 93 SH 947 C550038 | A 524+00 TO A 527+00 | MAINLINE ROADWAYS INCLUDING PAVEMENT, SHOULDERS, DRAINAGE SYSTEMS, GUIDERAIL, SNOW REMOVAL, AND STRUCTURE. | 0.06 | 0.11 | NYSDOT | HIGHWAY LAW ARTICLE 12B, SECTION 349-C ARTICLE 2, SECTION 10 | | | | |
| 3 | I - 990 NB SH 82-14 CA00252 | 292+50 T0 294+00 | MAINLINE ROADWAYS INCLUDING PAVEMENT, SHOULDERS, DRAINAGE SYSTEMS, GUIDERAIL, SNOW REMOVAL, AND STRUCTURE. | 0.03 | 0.06 | NYSDOT | HIGHWAY LAW SECTION 340-B | | | | |
| 4 | I - 990 SB SH 82-14 C530138 | 295+00 T0 296+00 | MAINLINE ROADWAYS INCLUDING PAVEMENT, SHOULDERS, DRAINAGE SYSTEMS, GUIDERAIL, SNOW REMOVAL, AND STRUCTURE. | 0.02 | 0.04 | NYSDOT | HIGHWAY LAW SECTION 340-B | | | | |
| 5 | NY 277 SH 1733 C530075 | 139+00 T0 141+00 | MAINLINE ROADWAYS INCLUDING PAYEMENT, SHOULDERS, DRAINAGE SYSTEMS, GUIDERAIL, SNOW REMOVAL, AND STRUCTURE. | 0.04 | 0.19 | NYSDOT | HIGHWAY LAW ARTICLE 12B, SECTION 349-C ARTICLE 2, SECTION 10 | | | | |
| 6 | US 20 SH 9269 C530008 | 1311+00 T0 1314+00 | MAINLINE ROADWAYS INCLUDING PAVEMENT, SHOULDERS, DRAINAGE SYSTEMS, GUIDERAIL, SNOW REMOVAL, AND STRUCTURE. | 0.04 | 0.19 | NYSDOT | HIGHWAY LAW ARTICLE 12B, SECTION 349-C ARTICLE 2, SECTION 10 | | | | |
| 7 | NY 62 SH 523 C540063 | 777+25 T0 780+25 | MAINLINE ROADWAYS INCLUDING PAVEMENT, SHOULDERS, DRAINAGE SYSTEMS, GUIDERAIL, SNOW REMOVAL, AND STRUCTURE. | 0.06 | 0.11 | NYSDOT | HIGHWAY LAW ARTICLE 12B, SECTION 349-C ARTICLE 2, SECTION 10 | | | | |

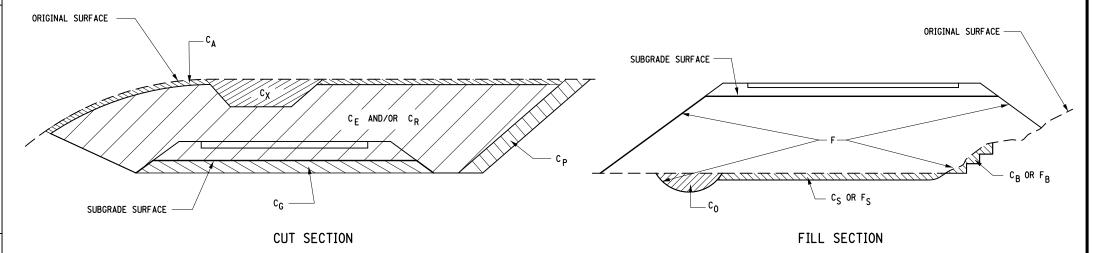
GENERAL MAINTENANCE NOTES:

- 1. AFTER ACCEPTANCE OF THIS CONTRACT, THE STATE WILL RESUME MAINTENANCE OF THE HIGHWAY. ALL PUBLIC INTERSECTING ROADS, HIGHWAYS OR STREETS NOT ON THE STATE SYSTEM SHALL BE MAINTAINED BY THE AGENCY OR LOCAL UNIT OF GOVERNMENT HAVING JURISDICTION BEYOND THE OUTSIDE EDGE OF SHOULDER, CURB LINE OR BACK OF DITCH OF THE STATE HIGHWAY ACROSS THE INTERSECTION.
- 2 ALL EXISTING SANITARY SEWERS AND OTHER SEWERS NOT DEEMED TO BE A PART OF THE PROJECT BY THE COMMISIONER, WATERMAINS, HYDRANTS, AND OTHER MUNICIPALLY OR PRIVATELY OWNED FACILITIES WITHIN THE LIMITS OF THE HIGHWAY RIGHT-OF-WAY WHICH REMAIN IN SERVICE UNCHANGED, AND ALL SUCH FACILITIES RELOCATED OR PROTECTED AS PART OF THE WORK PREFORMED UNDER THIS PROJECT, WHETHER CROSSING, LOCATED WITHIN OR ADJACENT TO THE RIGHT-OF-WAY, SHALL BE MAINTAINED AS THE CASE MAY BE, BY THE MUNICIPALITY OR BY THE AGENCY OR UNIT OWNING OR HAVING CONTROL AND JURISDICTION THEREOF AT NO COST OR EXPENSE TO THE STATE.

| DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | | PIN 5813.11 | BRIDGES | CULVERTS C550004 | ALL DIMENSIONS IN ft UNLESS OTHERWISE N | OTED | CONTRACT NUMBER |
|-----------------------------|--|------------|-------------------------|---------|---------------------|---|-------------------|--------------------|
| DESCRIPTION OF ALTERNATIONS | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | | UTILITY QUALITY LEVEL D | | C530038 CA00252 | | |) D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | | Ovident Govern | | C530138 | MAINTENANCE JURISDICTION TABLE | DDAWING NO MIT OF | |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | C530075 | | | DRAWING NO. MJT-01 |
| | COUNTIESNIAGARA | REGION: 05 | | | C530008 C540063 | | | SHEET NO. 17 |
| | | | | | | | | 1 |

| SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY) | | | | | | | | |
|--|----------------|------------------------|----------------|----------------|----------------|--|--|--|
| SOURCE | | EXCAVATION ITEM 203.02 | | | | | | |
| Source | Τ _E | c _R | Τ _U | С _Т | F _T | | | |
| SITE 2 - 530038 | | | | | 420.0 | | | |
| SITE 4 - C530075 | | | | | 1224.0 | | | |
| SITE 6 - C540063 | | | | | 2142.0 | | | |
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| | | | | | | | | |
| TOTALS | | | | | 3786.0 | | | |

| SUMMARY OF TRENCH AND CULVERT EXCAVATION (ITEM 206.0201 ONLY) | | | | | | | | | |
|---|-------|----------|----------|--|--|--|--|--|--|
| SOURCE | EXCAV | 'ATION | ITEM | | | | | | |
| SOURCE | ROCK | NON-ROCK | 206.0201 | | | | | | |
| SITE 2, C530038 NY RTE 93 | | | 241.3 | | | | | | |
| SITE 2, C530038 CULVERT | | | 1356.1 | | | | | | |
| SITE 2, C530038 LT WINGWALL | | | 113.0 | | | | | | |
| SITE 2, C530038 RT WINGWALL | | | 119.9 | | | | | | |
| SITE 4, C530075 ROADWAY | | | 639.8 | | | | | | |
| SITE 4, C530075 CULVERT | | | 1871.3 | | | | | | |
| SITE 4, C530075 LT WINGWALL | | | 608.4 | | | | | | |
| SITE 6, C540063 NY RTE 62 | | | 155.9 | | | | | | |
| SITE 6, C540063 CULVERT | | | 2954.4 | | | | | | |
| SITE 6, C540063 LT WINGWALL | | | 373.7 | | | | | | |
| SITE 6, C540063 RT WINGWALL | | | 345.2 | | | | | | |
| | | | | | | | | | |
| TOTALS | | | 8779.0 | | | | | | |



DEFINITIONS:

 $\mathbf{C}_{\mathbf{B}}$ - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).

 $\mathbf{C}_{\mathbf{G}}$ - EXCAVATION FOR SUBGRADE IMPROVEMENT.

 $C_{\mathbf{P}}$ - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.

CE - PORTION OF CUT ASSUMED TO BE EARTH SUITABLE FOR EMBANKMENT CONSTRUCTION, EXCLUDING CG AND CP.

 T_{E} - $(C_{B}$ + C_{G} + C_{P} + C_{E}) Total Earth excavation assumed suitable for embankment construction.

 $\boldsymbol{c_{A}}$ - excavation of topsoil (unsuitable material) in cut.

 ${\tt C}_{\tt S}$ - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.

 C_X - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP

 ${\tt C_0}$ - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP

 T_U - $(C_A$ + C_S + C_X + C_0) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.

 \boldsymbol{c}_{R} - Portion of cut assumed to be rock, including \boldsymbol{c}_{G} if applicable.

 $C_T - (T_E + T_U + C_R)$ TOTAL EXCAVATION.

DEFINITIONS:

 ${\sf F}_{\sf R}$ - FILL REQUIRED TO REPLACE BENCHES.

 $\boldsymbol{F}_{\boldsymbol{S}}$ - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.

F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.

 F_T - $(F_B + F_S + F)$ TOTAL FILL REQUIRED.

 $\rm T_A$ - (T_E \times F_E + C $_{\rm R}\times$ F_R) THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.

 ${\sf F_E}$ - Shrinkage factor for Earth

 $\mathbf{F}_{\mathbf{R}}$ - SWELL FACTOR FOR ROCK

NOTES:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.

203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL

203.03 EMBANKMENT IN PLACE

206.0201 TRENCH AND CULVERT EXCAVATION

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS C550004 | ALL DIMENSIONS IN yd3 UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|--|--|-------------------------|---------|---------------------|--|------------------------------|
| DESCRIPTION OF RETERRITORS. | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | C530038 CA00252 | EARTHWORK SUMMARY SHEET | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | | | C530138 | | DRAWING NO. ESS-01 |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | C530075 C530008 | | |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | C540063 | | SHEET NO. |
| | | | | | N ST OPI | Department of Transportation |

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| AS-BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATION | ONS PIN | 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN yd3 UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|-----------------------------|---|------------|-----------------------|---------|-------------------------------|--|---------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | | ILITY QUALITY LEVEL D | | C550004 C530038 | EARTHWORK SUMMARY SHEET | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOW | VAGA, | ILIIT QUALIIT LEVEL D | | C530038 CA00252 C530138 | EARTHWORK SOMMARY STEET | DD I WILL DO FOR AS |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | C530075 | | DRAWING NO. ESS-02 |
| | COUNTIES: NIAGARA AND ERIE | REGION: 05 | | | C530008 C540063 | | SHEET NO. |

| SUBDIVISION | LOCATION | | SUI | TABLE EXCAV | ATION | | ROCK | | UNSUI | TABLE EXCAV | ATION | | TOTAL EXCAVATION | | EMBANK | MENT | |
|-------------|-----------------------------|----|----------------|-------------|--------|----------------|----------------|----------------|-------|-------------|----------------|-------|---------------------|----------------|----------------|--------|----------------|
| NO. | (STATION TO STATION) | СВ | c _G | CP | cE | Τ _E | c _R | C _A | cs | СХ | c _o | TU | СТ | F _B | F _S | F | F _T |
| | SITE 2, C530038 NY RTE 93 | | | | 189.4 | 189.4 | | | 51.9 | | | 51.9 | 241.3 | | | | |
| | SITE 2, C530038 CULVERT | | | | 700.8 | 700.8 | | | | 655.3 | | 655.3 | 1356.1 | | | 205.1 | 205.1 |
| | SITE 2, C530038 LT WINGWALL | | | | 113.0 | 113.0 | | | | | | | 113.0 | | | 102.9 | 102.9 |
| | SITE 2, C530038 RT WINGWALL | | | | 119.9 | 119.9 | | | | | | | 119.9 | | | 112.0 | 112.0 |
| | SITE 4, C530075 ROADWAY | | | | 597.9 | 597.9 | | | 41.9 | | | 41.9 | 639.8 | | | | |
| | SITE 4, C530075 CULVERT | | | | 1609.5 | 1609.5 | | | 43.4 | 218.4 | | 261.8 | 1871.3 | | | 657.9 | 657.9 |
| | SITE 4, C530075 LT WINGWALL | | | | 608.4 | 608.4 | | | | | | | 608.4 | | | 565.7 | 565.7 |
| | SITE 6, C540063 NY RTE 62 | | | | 90.2 | 90.2 | | | 65.7 | | | 65.7 | 155.9 | | | | |
| | SITE 6, C540063 CULVERT | | | | 2150.9 | 2150.9 | | | | 803.4 | | 803.4 | 2954.4 | | | 1423.4 | 1423.4 |
| | SITE 6, C540063 LT WINGWALL | | | | 373.7 | 373.7 | | | | 00011 | | 30011 | 373.7 | | | 373.7 | 373.7 |
| | SITE 6, C540063 RT WINGWALL | | | | 345.2 | 345.2 | | | | | | | 345.2 | | | 345.2 | 345.2 |
| | | | | | 373.2 | 373.2 | | | | | | | 343.2 | | | 343.2 | 343.2 |
| | | | | | | | | | | | | | | | | | |
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FOR DEFINITIONS AND NOTES SEE DWG. ES-1

ITEM 201.06 - CLEARING AND GRUBBING

- 1. THE CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS INDICATED IN THE CONTRACT DOCUMENTS AND ADBE.
- THE CONTRACTOR MAY ENCOUNTER NESTING BIRDS DURING THE ADMINISTRATION OF THIS CONTRACT. UNDER THE MIGRATORY BIRD TREATY ACT, IT IS UNLAWFUL TO TAKE, CAPTURE, OR KILL ANY MIGRATORY BIRDS, INCLUDING THEIR FEATHERS, NESTS AND EGGS. THE CONTRACTOR SHOULD SCHEDULE WORK TO MINIMIZE THE POTENTIAL CONFLICT BETWEEN THIS FEDERAL LAW AND WORK OPERATIONS. REFER TO SPECIAL NOTE FOR MIGRATORY BIRD PROTECTION AND AVOIDANCE ELSEWHERE IN THE CONTRACT DOCUMENTS FOR FURTHER GUIDANCE AND REQUIREMENTS.
- ALL HEALTHY PLANT MATERIAL CLEARED ON THE JOB SITE MAY BE CHIPPED AND/OR SHREDDED ONSITE FOR SUBSEQUENT REUSE. CHIPPED AND SHREDDED MATERIAL MUST BE ACCEPTABLE TO AND LOCATIONS SHALL BE APPROVED BY THE EIC IN COORDINATION WITH THE REGIONAL LANDSCAPE ARCHITECT PRIOR TO ACCEPTANCE AND DISTRIBUTION.
- 4. CLEARING AND GRUBBING OPERATIONS MAY RESULT IN THE REMOVAL OF ASH (FRAXINUS SPP.) OR OTHER SPECIES INFESTED WITH INVASIVE SPECIES. FEDERAL REGULATIONS (7 CFR 301.53) INDICATE THAT NEW YORK STATE IS WITHIN THE FEDERAL QUARANTINE AREA FOR THE EMERALD ASH BORER. ASH TREE DISPOSAL SHALL FOLLOW ALL APPLICABLE REGULATIONS PER SECTION 107-01 OF THE STANDARD SPECIFICATIONS. ASH TREES SHALL BE CHIPPED INTO MULCH IN ACCORDANCE WITH 713-05 MULCH FOR PLANTING TYPE C (USDA PROTOCOL WOOD CHIPS) AND SHALL BE DISPOSED OF ONSITE.

INVASIVE SPECIES MANAGEMENT AT CONTRACTOR STAGING AREAS

- THE CONTRACTOR SHALL TAKE ALL PRUDENT AND REASONABLE EFFORTS TO SELECT STAGING AREAS THAT
 ARE FREE FROM THE INFESTATION OF THE FOLLOWING INVASIVE PLANT SPECIES; PHRAGMITES (PHRAGMITES
 AUSTRALIS), JAPANESE KNOTWEED (REYNOUTRIA JAPONICA), PURPLE LOOSESTRIFE (LYTHRUM SALICARIA) AND
 GIANT HOGWEED (HERACLEUM MANTEGAZZIANUM).
- 2. IF INVASIVE PLANT SPECIES ARE IN CLOSE PROXIMITY TO STAGING OPERATIONS, THE CONTRACTOR SHOULD TAKE THE NECESSARY STEPS TO ASSURE THAT NO INVASIVE SPECIES PLANT PARTS COME IN CONTACT WITH CONSTRUCTION VEHICLES. FOUIPMENT AND MATERIALS.
- 3. IF CONTACT IS UNAVOIDABLE, AS PER SECTION 107-01C INVASIVE SPECIES OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING THE INFECTED EQUIPMENT. THIS PROCEDURE IS REQUIRED IN ORDER TO MINIMIZE THE POSSIBILITY OF TRANSPORTING THE INVASIVE PLANT SPECIES OFF THE IMMEDIATE STADIANG AREA AND ONTO STATE HIGHWAYS OR THE PROJECT SITE.

WATER QUALITY PROTECTION

- THE CONTRACTOR SHALL PROTECT ALL WATER RESOURCES WITHIN THE CONTRACT LIMITS AND ON LANDS
 ADJACENT TO OR AFFECTED BY THE WORK.
- 2. REFER TO SECTION 107-12 OF NYSDOT STANDARD SPECIFICATIONS FOR CONTRACTOR WATER QUALITY PROTECTION RESPONSIBILITIES AND REQUIREMENTS.

WORK NEAR WATERWAYS

- IN THE EVENT DE-WATERING OPERATIONS BECOME NECESSARY, A SETTLING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM.
- ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE WELL REMOVED FROM ANY WATER OF THE UNITED STATES INCLUDING WETLANDS AND BE SUITABLY STABILIZED SO THAT IT CANNOT REASONABLY RE-ENTER ANY WATER BODY.
- 3. THE CONTRACTOR SHALL NOT USE ANY STREAM BED, BANKS OR FLOODPLAIN AS A STAGING AREA FOR EQUIPMENT OR MATERIALS. AFTER EACH WORK DAY, ALL MECHANIZED EQUIPMENT SHALL BE REMOVED FROM THE BED AND BANKS OF STREAMS AND STORED IN AN APPROVED UPLAND SITE.
- 4. CONSTRUCTION ACCESS SHALL BE BY MEANS THAT AVOID OR MINIMIZE IMPACTS TO AQUATIC SITES.
- 5. ALL EXCESS EXCAVATED MATERIAL REMAINING ON SITE MUST BE PROPERLY CONTAINED AND PERMANENTLY STABILIZED TO PREVENT EROSION.
- UPON PROJECT COMPLETION, TEMPORARILY IMPACTED AQUATIC SITES MUST BE RESTORED TO THEIR ORIGINAL CONTOURS AND CONDITIONS.
- WATER CONTROL STRUCTURES AND ANCILLARY FEATURES SHALL BE PLACED AND MAINTAINED IN A
 MANNER THAT MINIMIZES ADVERSE IMPACTS TO AQUATIC LIFE, TO WATER QUALITY, AND TO STREAM FLOW

| JUB MA | AFFIX SEAL: ALISIA B. VILONEN ON: 14-MAY-2021 10:03 | ALTERED BY: ON: | |
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SIGNS OF CONTAMINATION

IF, DURING EXCAVATION AT ANY LOCATION, SIGNS OF CONTAMINATION ARE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE EIC. SIGNS OF CONTAMINATION INCLUDE, BUT ARE NOT LIMITED TO: ODOR, OILY SHEEN, SLUDGE, SOIL STAINING AND UNUSUAL FILL MATERIAL OR UNDERGROUND IMPEDIMENTS. THE EIC SHALL IMMEDIATELY NOTIFY THE CONSTRUCTION ENVIRONMENTAL COORDINATOR.

MIGRATORY BIRD PROTECTION AND AVOIDANCE

- . UNDER THE MIGRATORY BIRD TREATY ACT, (MBTA) IT IS UNLAWFUL BY ANY MEANS OR MANNER, TO INTENTIONALLY OR UNINTENTIONALLY TAKE, CAPTURE OR KILL ANY MIGRATORY BIRD, UNLESS A FEDERAL PERMIT IS FIRST SCIUED.
- PROTECTED MIGRATORY BIRDS INCLUDE ALL WATERFOWL, HERONS, HAWKS, OWLS, EAGLES AND SONGBIRDS, INCLUDING BUILDING AND EASTERN PHOEBES. THEIR FEATHERS, NESTS, AND EGGS ARE ALSO PROTECTED INDEED THE LIBITAL BUILDING - 3. EXEMPT, OR NOT AFFORDED PROTECTION UNDER THE MBTA, ARE ROCK DOVES (DOMESTIC PIGEONS), HOUSE SPARROWS (ENGLISH SPARROWS), EUROPEAN STARLINGS, AND MONK PARAKEETS. ALTHOUGH THESE SPECIES ARE NOT PROTECTED UNDER THE ACT, THEY SHOULD STILL BE TREATED AS HUMANELY AS POSSIBLE. THE CONTRACTOR SHALL NOTIFY THE EIC AND THE EIC WILL ALERT THE CONSTRUCTION ENVIRONMENTAL COORDINATOR (CEC), WHEN ACTIVE NESTS OF THE ABOVE SPECIES ARE FOUND. THE EIC AND THE CEC WILL EVALUATE THE POTENTIAL FOR REMOVING THE YOUNG FROM THE NEST TO BE RAISED BY A WILDLIFE BEHABILITATION.
- BRIDGE/CULVERT CLEANING AND/OR REPAIR, BRIDGE/CULVERT REPLACEMENT: BRIDGES/CULVERTS SCHEDULED FOR CLEANING, REPAIR OR REPLACEMENT SHALL BE INSPECTED BY THE DOT FOR BIRD NESTING ACTIVITY PRIOR TO COMMENCING ANY CONTRACT RELATED ACTIVITY. IDEALLY THIS WOULD INVOLVE A SCREENING OF ALL POTENTIAL BRIDGE/CULVERT LOCATIONS FOR BIRD ACTIVITY AND BIRD NESTS BEFORE WORK OPERATIONS REGIN
- 5. CLEARING AND GRUBBING OPERATIONS: MIGRATORY BIRDS CAN ALSO BE FOUND IN TREES, BRUSH AND OPEN FIELDS. ALL AREAS OF CLEARING AND GRUBBING, STAGING AREAS OR OTHER AREAS OF POTENTIAL DISTURBANCE SHALL BE INSPECTED BY THE CONTRACTOR FOR BIRD NESTING ACTIVITY PRIOR TO COMMENCING ANY DISTURBANCE ACTIVITY. THE CONTRACTOR SHALL SCHEDULE WORK TO MINIMIZE THE POTENTIAL CONFLICT BETWEEN THIS FEDERAL LAW AND WORK OPERATIONS.
- LOCATIONS THAT ARE IDENTIFIED AS CONTAINING OR HARBORING ACTIVE MIGRATORY BIRD NESTS SHALL BE EVALUATED FOR POTENTIAL IMPACTS OR ILLEGAL TAKING OF MIGRATORY BIRDS, NESTS OR EGGS. IF A NEST (OR NESTS) IS IDENTIFIED BY THE CONTRACTOR BETWEEN APRIL 15 AND AUGUST 15 (POTENTIAL BREEDING SEASON), IT SHOULD BE OBSERVED FOR A PERIOD OF SEVERAL HOURS TO DETERMINE IF IT IS ACTIVE OR NOT. AN ACTIVE NEST DURING THE BREEDING SEASON IS INDICATED BY ADULT BIRDS CONSTRUCTING THE NEST, BIRDS COMING AND GOING FROM THE NEST, SOUNDS OF YOUNG IN THE NEST, OR BIRD SPECIES MATCHING THE BIRD NEST TYPE FLYING IN THE VICINITY OF THE NESTS. IF NONE OF THESE ACTIVITIES ARE OBSERVED, THEN THE NEST CAN BE ASSUMED INACTIVE AND CAN BE REMOVED AND MAINTENANCE/CONSTRUCTION ACTIVITIES CAN BEGIN.

STREAM NOTES

- STREAM RESTRICTION DATES HAVE BEEN PROVIDED BY NYSDEC THERE ARE NO STREAM RESTRICTION DATES FOR THE PROJECT.
- . NO MATERIAL SHALL BE ALLOWED TO BE DROPPED INTO THE STREAM CHANNEL. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
- . ALL IN-STREAM WORK SHALL BE CONDUCTED DURING PERIODS OF LOW FLOW, A.O.B.E. IN COORDINATION WITH THE REGIONAL ENVIRONMENTAL CONTACT. NO IN-STREAM WORK SHALL OCCUR DURING PREDICTED PERIODS OF LIGHT OW
- . DISTURBANCE TO THE BED AND BANKS OF THE STREAM, LAKE, OR WETLAND SHALL BE KEPT TO THE MINIMUM NECESSARY TO COMPLETE THE PROJECT.
- TEMPORARY WATER DIVERSION STRUCTURES SHALL NOT BE COMPOSED OF ERODIBLE FILL (LOOSE SAND, SOILS, RIP RAP, ETC). WATER DIVERSION STRUCTURES SHALL BE NON-ERODIBLE AND APPROVED BY THE F.I.C PRIOR TO INSTALLATION.

THREATENED AND ENDANGERED SPECIES

ERIE COUNTY LOCATIONS (C530138, CA00252, C530075, C530008, C530038, AND C540063

- THE NORTHERN LONG EARED BAT (NLEB) (MYOTIS SEPTENTRIONALIS) IS LISTED AS A FEDERALLY AND STATE THREATENED SPECIES. THIS PROJECT IS APPROVED FOR THE REMOVAL OF UP TO TWENTY (20) TREES THREE (3) INCHES DIAMETER AT BREAST HEIGHT (0BH) OR GREATER AT THE LOCATIONS IN ERIE COUNTY. THE TREE REMOVALS HAVE BEEN APPROVED FOR THE CUTTING WINDOW OF AUGUST 1ST TO APRIL 30TH. NO TREES THREE (3) INCHES DBH OR GREATER CAN BE CUT BETWEEN MAY 1ST AND JULY 31ST AT THE ERIE COUNTY LOCATIONS.
- 2. IF PROJECT CONDITIONS CHANGE AND ADDITIONAL TREE REMOVALS ARE NECESSARY, WHETHER UNDER CLEARING AND GRUBBING OR TREE REMOVALS, THE ENGINEER MUST BE NOTIFIED PRIOR TO THE START OF ANY ADDITIONAL TREE REMOVALS, ADDITIONAL TREE REMOVALS WILL BE ALLOWED ONLY AFTER COORDINATION AND APPROVAL BY THE ENGINEER IN CONSULTATION WITH THE CONSTRUCTION ENVIRONMENTAL COORDINATIOR.

NIAGARA COUNTY LOCATIONS (C550004, 554019086, 554018812, 554019353, 554019432, 554019269, AND

1. THE NLEB IS LISTED AS A FEDERALLY AND STATE THREATENED SPECIES, ALTHOUGH THE NLEB WAS NOT IDENTIFIED WITHIN THE PROJECT LIMITS AT THE NIAGARA COUNTY LOCATIONS, THIS SPECIES COULD BE ENCOUNTERED ANYWHERE IN NEW YORK STATE, FOLLOWING NYSDEC'S BEST MANAGEMENT PRACTICES, TREES OR BRANCHES THREE (3) INCHES DBH OR GREATER SHALL NOT BE REMOVED DURING THE NLEB PUP SEASON WHICH IS MAY 1ST TO JULY 31ST. THERE ARE NO RESTRICTIONS TO THE NUMBER OF TREES THAT CAN BE REMOVED AT THE NIAGARA COUNTY PROJECT LOCATIONS.

EROSION AND SEDIMENT CONTROL

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL THE SOIL IS STABILIZED WITH SEEDING AND/OR MULCH.
- FOR LARGE SCALE OR PHASED PROJECTS, THE INSTALLATION OF EROSION CONTROL MEASURES CAN BE INSTALLED CONCURRENT WITH CONSTRUCTION PHASING, AND CAN BE REMOVED WHEN PHASED AREAS ARE STABILITED.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS
 DIVERTED TO SOIL FROSION AND SEDIMENT CONTROL DEVICES.
- I. THE LOCATIONS OF EROSION AND SEDIMENT CONTROL MEASURES, AS INDICATED ON THE PLANS MAY REQUIRE FIELD ADJUSTMENT DEPENDING ON THE SEQUENCE OF CONSTRUCTION ACTIVITIES, CONSTRUCTION METHODS, AND/OR ACTUAL FIELD CONDITIONS. THE E.I.C. SHALL BE NOTIFIED OF ANY SIGNIFICANT FIELD CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE PLANS.
- STORM WATER FROM DISTURBED AREAS MUST BE ALLOWED TO SETTLE (VIA A SEDIMENT TRAP) OR PASS THROUGH AN APPROPRIATE SEDIMENT CONTROL DEVICE BEFORE DISCHARGE BEYOND DISTURBED AREAS OR INTO INLETS OF OTHER DRAINAGE SYSTEMS.
- ANY SEDIMENT TRAPPED BEHIND EROSION CONTROL MEASURES MUST BE REMOVED PRIOR TO REMOVAL OF THE EROSION CONTROL DEVICE.
- REFER TO THE PROJECT PLANS AS WELL AS NYSDOT STANDARD SHEETS 209-1 THROUGH 209-9 FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION, INSTALLATION, AND INSPECTION REQUIREMENTS OF SOIL EROSION AND SEDIMENT CONTROL MEASURES.

SITE STABILIZATION

- MINIMIZE EXPOSED SOILS WHEREVER POSSIBLE. THIS CAN BE ACCOMPLISHED THROUGH PROPER CONSTRUCTION SEQUENCING AND USE OF MULCH AND TEMPORARY SEEDING.
- THE CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.

ASBESTOS CAUTION

1. THE CONTRACTOR IS CAUTIONED THAT SUSPECT MATERIALS CONTAINING ASBESTOS MAY EXIST IN THE UTILITIES. UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS. UNLESS OTHERWISE INDICATED ON THE PLANS, IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS NOT BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR BE FORCED TO DISTURB IN ANY WAY ANY SUCH MATERIALS, THE CONTRACTOR SHALL FIRST BE FAMILIAR WITH INDUSTRIAL CODE RULE 56 OF THE N.Y.S. DEPARTMENT OF LABOR. THE CONTRACTOR SHALL ALSO OBTAIN WRITTEN PERMISSION OF THE CONSTRUCTION ENVIRONMENTAL COORDINATOR (CEC) BEFORE PROCEEDING.

SECTION 404 AND 401 PERMITS

- FILLS AND OTHER CONSTRUCTION ACTIVITIES NECESSARY FOR COMPLETION OF THIS PROJECT ARE SUBJECT TO SECTIONS 404 AND 401 OF THE FEDERAL CLEAN WATER ACT.
- 2. THIS PROJECT MEETS THE CRITERIA ESTABLISHED FOR NATIONWIDE PERMIT NUMBER 3 (NWP-3, MAINTENANCE)
 AUTHORIZED BY THE US ARMY CORPS OF ENGINEERS (USACE) IN SATISFACTION OF SECTION 404 PERMIT
 PROJUBELANTS
- THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) ADMINISTERS PROVISIONS OF SECTION 401 OF THE CLEAN WATER ACT THROUGH ISSUANCE OF WATER QUALITY CERTIFICATION. THE NYSDEC HAS CERTIFIED THAT ACTIVITIES AUTHORIZED BY NWP-3 FOR THIS PROJECT ALSO COMPLY WITH SECTION 401 PROVISIONS OF THE ACT AND APPLICABLE NEW YORK STATE WATER QUALITY STANDARDS.
- 4. THE NYSDOT IS RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR AND/OR WORKERS EXECUTING THE ACTIVITIES AUTHORIZED BY THIS PERMIT HAVE KNOWLEDGE OF THE TERMS AND CONDITIONS OF THE AUTHORIZATION AND THAT A COPY OF THE PERMIT DOCUMENT IS AT THE PROJECT SITE.
- 5. AUTHORIZATION OF AN ACTIVITY BY A NWP DOES NOT AUTHORIZE THE 'TAKE' OF A THREATENED OR ENDANGERED SPECIES AS DEFINED IN THE ENDANGERED SPECIES ACT.

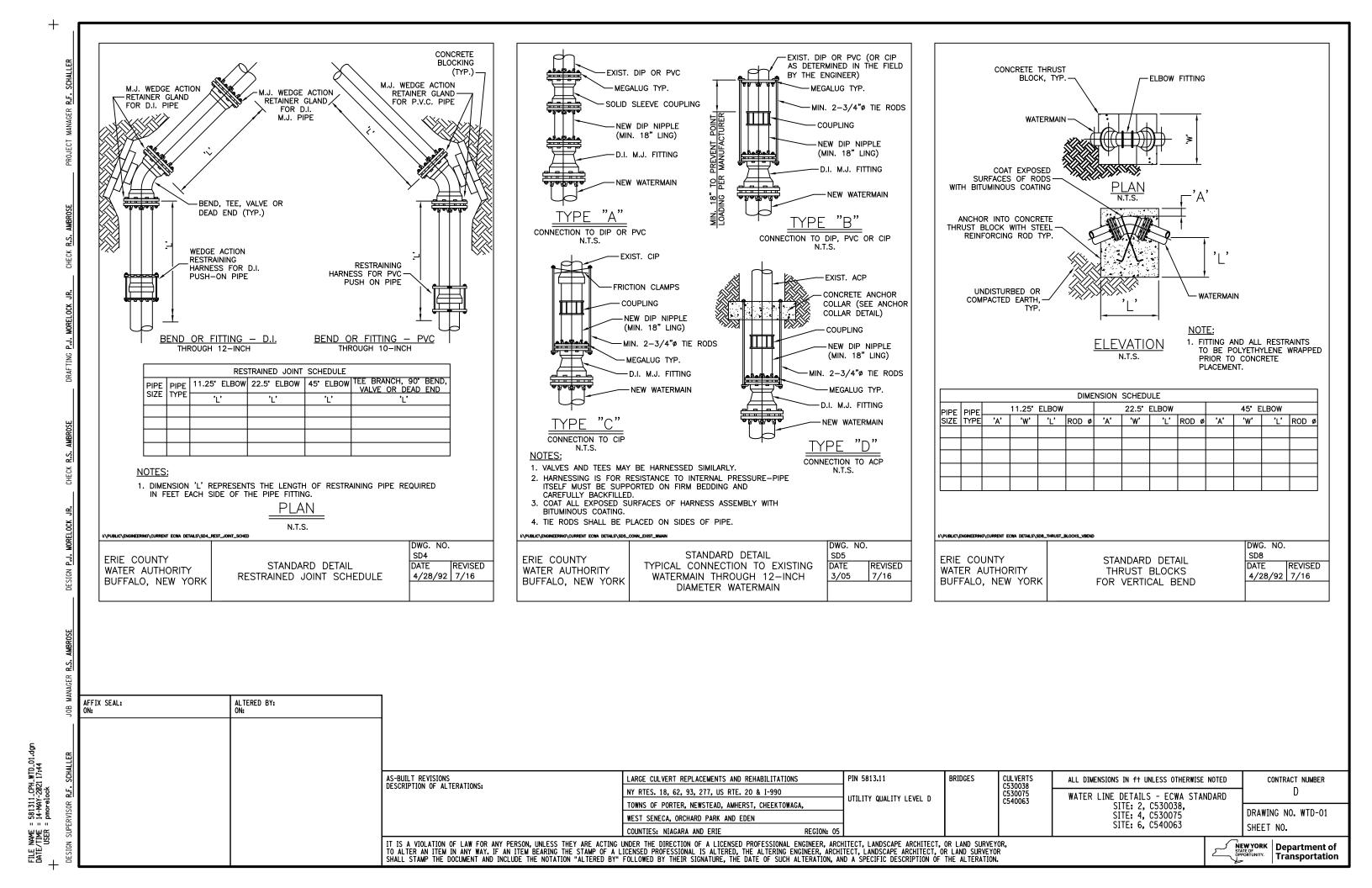
ARTICLE 24 FRESHWATER WETLANDS

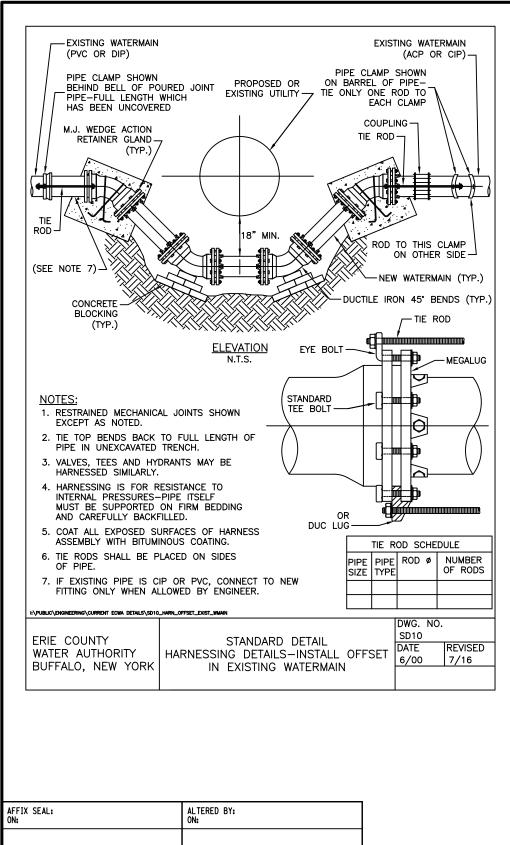
1. C530038- A NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) 100 FOOT REGULATED ADJACENT AREA EXISTS WITHIN THE PROJECT LIMITS. NO TEMPORARY OR PERMANENT FILL SHALL BE ALLOWED WITHIN THE WETLAND AND ONLY FILLS SPECIFIED IN THE NYSDEC ARTICLE 24 FRESHWATER WETLANDS PERMIT SHALL BE ALLOWED WITHIN THE 100 FOOT REGULATED ADJACENT AREA. WORK WITHIN THE NYSDEC WETLAND SHALL BE AVOIDED IN SATISFACTION OF NYS ECL ARTICLE 24 PERMIT BENINGHEMENTS.

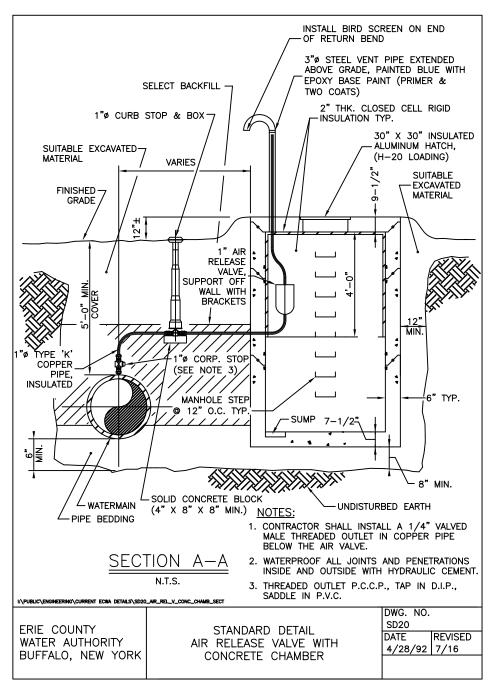
| | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|-----------------------------|--|-------------------------|---------|--|---|--------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | C550004 C530038 CA00252 C530138 | ENVIRONMENTAL NOTES | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTILITY QUALITY LEVEL D | | | | DDAWING NO FNV 04 |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | C530075 C530008 | | DRAWING NO. ENV-01 |
| | COUNTY: NIAGARA REGION: 05 | | | C540063 | | SHEET NO. |

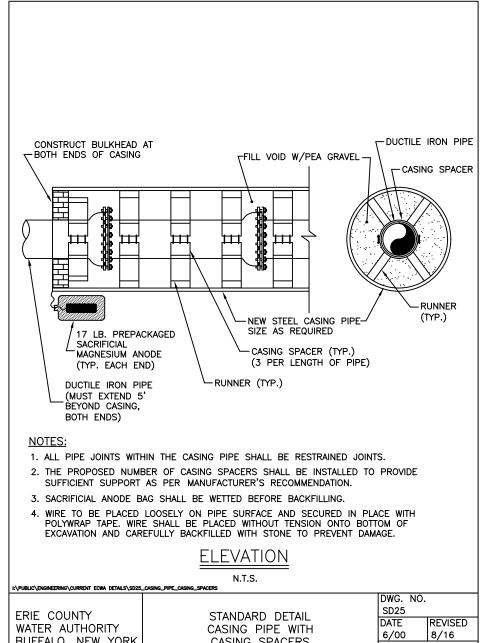
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.











BUFFALO, NEW YORK CASING SPACERS

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

ARGE CULVERT REPLACEMENTS AND REHABILITATIONS NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA, ORCHARD PARK AND EDEN COUNTIES: NIAGARA AND ERIE

BRIDGES UTILITY QUALITY LEVEL D

PIN 5813.11

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED WATER LINE DETAILS - ECWA STANDARD SITE: 2, C530038, SITE: 4, C530075

SITE: 6, C540063

CONTRACT NUMBER D

DRAWING NO. WTD-02 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK
STATE OF OPPORTUNITY.

Department of
Transportation Transportation

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AFFIX SEAL:

NOTES

- 1. All elevations refer to USGS NAVD83 datum
- 2. The CONTRACTOR shall obtain necessary permits and furnish copies to the ENGINEER prior to commencing work.
- 3. The CONTRACTOR work area shall be confined to the limits of the right-of-ways and easements. The CONTRACTOR shall obtain any additional easements or work releases should the CONTRACTOR require additional area to accommodate his operations.
- 4. The CONTRACTOR shall provide maintenance and protection of traffic in accordance with the Erie County Highway Department standards and the NYSDOT Manual of Uniform Traffic Control Devices.
- 5. The locations and depths of existing underground utilities as shown on the plans and profiles are approximate. Other underground utilities not shown may be encountered. The CONTRACTOR shall perform test pits to verify the location and elevation of utilities at interconnections and crossings as shown, directed or required. The CONTRACTOR shall excavate in advance of the pipe laying operation and expose all existing underground utilities to prevent damage during construction and to determine required changes in grade necessary to install watermain to avoid conflicts.
- 6. The CONTRACTOR shall install those measures required to limit erosion of areas disturbed by the work. Clearing shall be performed on an as needed basis, phased to reduce erosion and visual impact
- 7. Blasting will not be permitted.
- 8. No more than one connection may be made to any existing watermain prior to testing, disinfection, and approval of the Waterline Installation Completed Works Approval Report(s) by the Erie County Water Authority and the Erie County Health Department.
- 9. The Erie County Water Authority only shall operate existing valves and fire hydrants, including newly installed valves and fire hydrants that have been placed into service. The CONTRACTOR is advised that watertight conditions may not exist when existing valves
- 10. The CONTRACTOR shall have all equipment, manpower, and materials required on site and ready for use prior to commencing any shut-down or removing any existing facilities from service. The CONTRACTOR shall notify all affected customers of any shutdown at least 48 hours in advance. The CONTRACTOR shall notify the appropriate fire stations 48 hours in advance prior to taking any fire hydrants out of service. Any fire hydrants not in service shall be bagged in burlap or plastic. Any shut-down shall be limited to 4 consecutive hours. It may be necessary to schedule shut-downs at night, weekends, or other off hours so as to not affect schools, businesses or other customers, as determined by the ENGINEER. Shut-down requests shall be submitted to the Erie County Water Authority a minimum of 5 business days in advance of the requested shut-down date.

:\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD29_GENERAL_NOTES

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK

STANDARD DETAIL GENERAL NOTES

ALTERED BY:

SD29 DATE REVISED 3/05 8/16

- 11. All watermain piping shall be installed with a minimum of 5'-0" of cover.
- 12. All watermain piping shall be installed with a minimum of 1'-6" of vertical clearance and 10'-0" of horizontal clearance from sanitary and storm piping, measured from the outside of the pipes at the point of crossing.
- 13. If the material at the design grade is unsuitable as determined by the ENGINEER, the CONTRACTOR, when ordered in writing, shall excavate additional material to the depth necessary and shall backfill to the proposed grade with the select granular material.
- 14. The installation of the 90 degree bends in the watermain is not allowed, unless approved by the Erie County Water Authority.
- 15. Thrust restraint for watermain piping through 12-inch diameter shall consist of thrust blocks and pipe joint restraint.
- 16. The CONTRACTOR shall notify the owner of any utility pole in advance of any excavation work that will take place within 5'-0" of the utility pole. The CONTRACTOR shall include the cost of temporary pole support in the appropriate bid item. Where utility poles are required to be supported during construction, the CONTRACTOR shall make all necessary arrangements with the utility company.
- 17. If materials are encountered during the construction that are suspected of being contaminated, the CONTRACTOR shall immediately notify the NYSDEC for direction regarding testing, separation, containment and disposal procedures.
- 18. Existing fire hydrants removed during construction and not reinstalled as part of the work shall be returned to the Erie County Water Authority Service Center, 3030 Union Road,
- 19. The CONTRACTOR shall cold patch all trench excavations in traveled areas including roads, driveways, sidewalks, and parking areas.
- 20. The CONTRACTOR shall not restrict school bus access.
- 21. The use of existing fire hydrants for any reason is prohibited without prior approval of the Erie County Water Authority. This includes newly installed fire hydrants that have been placed into service.
- 22. The CONTRACTOR shall submit procedures for testing and disinfection of the watermain to the ENGINEER for approval.
- 23. The CONTRACTOR shall be present and assist in the Final Walk inspection. The CONTRACTOR shall provide sufficient personnel and equipment to demonstrate to the ENGINEER that all valves, fire hydrants and curb stops operate as required.

I:\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD30_GENERAL_NOTES

DWG. NO. SD30 ERIE COUNTY STANDARD DETAIL DATE REVISED WATER AUTHORITY 3/05 GENERAL NOTES 8/16 BUFFALO, NEW YORK

| PIPE DIAMETER (in) | PIPE MATERIAL | | WORKING PRESSURE (psi) | TEST PRESSURE (psi) |
|--------------------------|---------------|----------|------------------------------|---------------------------|
| | Туре | Rating | | |
| 8 NPS | DIP | Class 52 | 60 | 170 |
| 12 NPS | DIP | Class 52 | 60 | 170 |
| 24 NPS | DIP | Class 51 | 60 | 170 |

(Fill in project-specific values in table, Items shown are for example only.)

I:\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD31_PRESS_TEST_SCHED

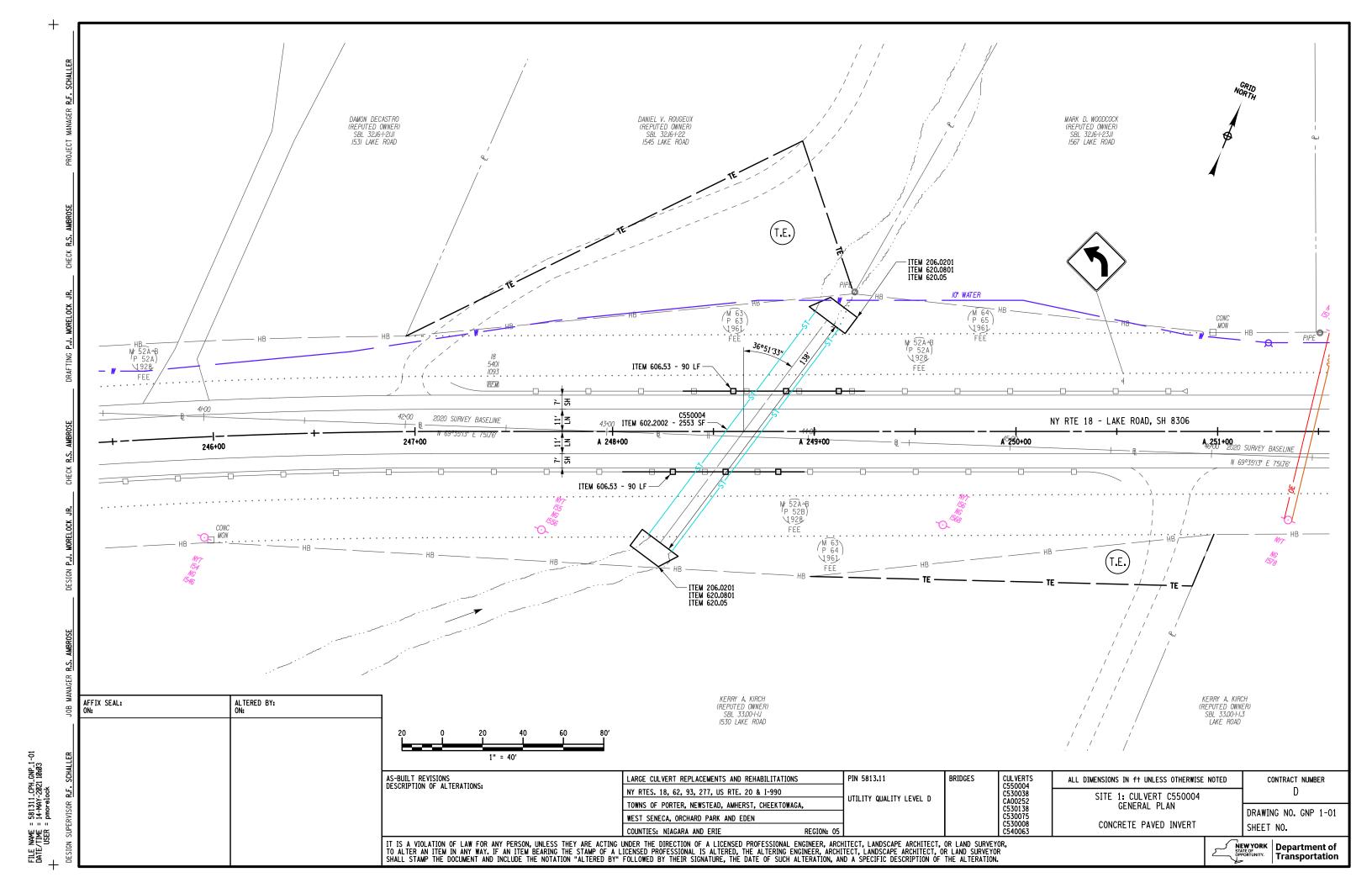
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK

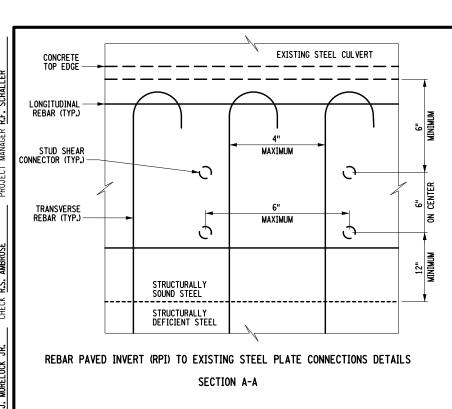
PRESSURE TESTING **SCHEDULE**

DWG. NO. SD31 DATE REVISED 10/05

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| 읽 | | AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOT | TED CONTRACT | NUMBER |
| 띪 | | DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | WATER LINE NOTES - ECWA STANDAR | ₹ <mark>D</mark> D | |
| SOR | | | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | - CHILITY QUALITY ELVEL D | | | SITE: 2, C530038, SITE: 4, C530075 | | WTN 04 |
| RVI | | | WEST SENECA, ORCHARD PARK AND EDEN | | | | | DRAWING NO. | WIN-01 |
| SUPL | | | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | SITE: 6, C540063 | SHEET NO. | |
| DESIGN | | IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A I SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" | LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCH | ITECT, LANDSCAPE ARCHITECT, O | R LAND SURVEYO |)R | 2 | | rtment of sportation |

| | | OWNER | LOCATION NO. | DWG. NO. | PRESENT | FEATURE | LOCATION | SITE NO. | CIN NO. | DESCRIPTION OF WORK | | |
|-----------------|--------------------|-----------------------------|---|----------------------------------|--------------------------------------|-------------------------------------|--|----------|-----------|---|--|-------|
| | | OVVINER | UTL 2-1 | GNP 2-01 WTD 2-01 | LOCATION EXISTING R.O.W. | 8" PVC WATER LINE | NY RTE 93 | 2 2 | C530038 | RELOCATE WATER LINE UNDER PROPOSED CULVERT DURING CONSTRUCTION BY STATE FORCES | | |
| | v | ERIE COUNTY VATER AUTHORITY | UTL 4-1 | WTD 2-02 GNP 4-01 WTD 4-01 | EXISTING R.O.W. | 24" CIP WATER LINE | NY RTE 277 | 4 | C530075 | RELOCATE WATER LINE UNDER PROPOSED CULVERT DURING CONSTRUCTION BY STATE FORCES | | |
| | | (ECWA) | UTL 6-1 | WTD 4-02 GNP 6-01 WTD 6-01 | EXISTING R.O.W. | 12" CIP WATER LINE | US RTE 62 | 6 | C540063 | RELOCATE WATER LINE UNDER PROPOSED CULVERT DURING CONSTRUCTION BY STATE FORCES | | |
| | N | ATIONAL FUEL GAS | UTL 4-2 | WTD 6-02 GNP 4-01 | EXISTING R.O.W. | 8" CTA GAS LINE 16" CTA GAS LINE | NY RTE 277 SB LANE NY RTE 277 NB LANE | 4 | C530075 | RELOCATE GAS LINES UNDER PROPOSED CULVERT DURING CONSTRUCTION BY UTILITY OWNER | | |
| | | (NFG) | UTL 6-2 | GNP 6-01 | PRIVATE PROPERTY (TO BE ACQUIRED) | 2" WI GAS LINE | SE INLET STREAM BED | 6 | C540063 | RELOCATE GAS LINES UNDER PROPOSED HEAVY STONE FIL DURING CONSTRUCTION STAGE 1 BY UTILITY OWNER | LL | |
| AFFIX SEAL: ON: | ALTERED BY: ON: | | | | | | | | | | | |
| | | AS-B DESC | UILT REVISIONS RIPTION OF ALTERATION | Si | | NY RTES. 18, 62, 93, | ACEMENTS AND REHABILI 277, US RTE. 20 & I-9 EWSTEAD, AMHERST, CHEE | 90 | PIN 5813. | C550004 | MENSIONS IN ft UNLESS OTHERWISE NOTED UTILITY DISPOSITION TABLE SITES 1 THRU 6 | DRAWI |
| | | | | | | COUNTIES: NIAGARA A | | REGIO | N: 05 | C530008 | | SHEET |



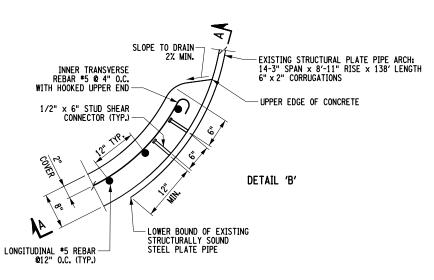


NOTES:

- 1. DEWATER, CLEAN AND INSPECT THE EXISTING PIPE. INSTALL TEMPORARY SHORING, A.O.B.E. REMOVE OBSTRUCTIONS THAT MAY PREVENT INSTALLATION OF REBAR PAVED INVERT. ALL STRUCTURALLY SOUND STEEL SURFACES, AGAINST WHICH NEW CONCRETE WILL BE SUBSEQUENTLY PLACED, SHALL BE CLEANED SUFFICIENTLY TO ENSURE PROPER BOND BETWEEN THE STEEL AND CONCRETE.
- 2. FILL ALL SOIL VOIDS BEHIND THE STEEL CULVERT WITH GROUT OR PORTLAND CEMENT CONCRETE A.O.B.E. COST TO BE INCLUDED IN UNIT BID PRICE FOR ITEM 602.2002.
- 3. ANY ASPHALT COATING AND GALVANIZING ARE TO BE REMOVED TO BARE METAL BEFORE WELDING. REPAIR GALVANIZING IN WELD AREAS ACCORDING TO SECTION 719-01 OF THE STANDARD SPECIFICATIONS. COST TO BE INCLUDED IN UNIT BID PRICE FOR ITEM 602,2002.
- 4. DEFECTIVELY ATTACHED STUD SHEAR CONNECTORS SHALL BE LEFT IN PLACE AND REPLACED WITH AN ADDITIONAL STUD SHEAR CONNECTOR A.O.B.E.
- 5. SHEAR STUDS MUST BE AT LEAST 12" ABOVE STRUCTURALLY DEFICIENT STEEL AND WELDED TO CORROGATION CRESTS.
- 6. ITEM 602.2002 CONCRETE SHALL COMPLETELY COVER THE DETERIORATED SURFACE AND VOIDS OF THE PIPE INVERT, BETWEEN AND AT LEAST 6" BEYOND THE TOP ROW OF STUD CONNECTORS. STEEL REINFORCEMENT SHALL HAVE 2" MINIMUM COVER WITH ITEM 602.2002 CONCRETE. STID CONNECTORS SHALL BE WELDED, ACCORDING TO THE STEEL CONSTRUCTION MANUAL (SCM), TO THE STEEL PIPE ABOVE THE AREA OF SECTION LOSS, A.O.B.E. THIS ITEM SHALL INCLUDE ALL MATERIALS AND WORK SHOWN TO REPAIR THE CULVERT.
- 7. CONCRETE SHALL MEET REQUIREMENTS OF SECTION 555 CLASS D, H OR J, OR SECTION 583 SHOTCRETE. THE MINIMUM CONCRETE COMPRESSIVE STRENGTH IS 3000 PSI, AT 28 DAYS.
- 8. ALL PROVISION OF SECTION 602 OF THE NYSDOT STANDARD SPECIFICATIONS APPLY TO THE WORK DETAILED AS APPLICABLE.
- ALL BAR REINFORCEMENT SHALL BE GRADE 60 AND EPOXY COATED. STEEL BAR REINFORCEMENT SPLICES SHALL HAVE THE REQUIRED SPLICE LENGTH, IN ACCORDANCE WITH NYSDOT BRIDGE MANUAL.

ALTERED BY: ON:

| SPAN |
|---|
| VOIDS IN EXISTING INVERT SHALL SEE DETAIL 'B' (THIS SHEET) BE COMPLETELY FILLED IN WITH ITEM 602.2002. |
| |
| REBAR PAVED INVERT ARCH DETAIL (RPI) |



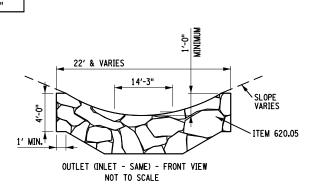
| STUD SHEAR | CONNECTOR | TABLE FOR 6 | x 2 CORRU | GATIONS | | | |
|----------------|-----------|-------------|-----------|-----------|---|----|-----|
| TRANSVERSE | | METAL | GAUGE | | | | |
| REINFORCEMENT | 10 | 8 | 7 | 5 | <u> </u> | | |
| #5 @ 6" | | | | 2 ROWS OF | SP | AN | TR. |
| (8" CONC.) | - | - | - | ½" DIA. | 1 | 4' | * |

REINFORCEMENT TABLE RANSVERSE LONGITUDINAL "T"

NOTE: USE 6" LONG SHEAR CONNECTORS FOR 8" CONCRETE REPAIR.

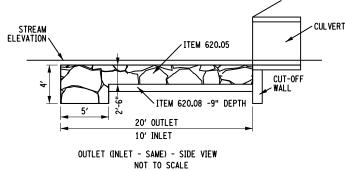
SHEAR CONNECTORS ARE TO BE WELDED TO THE CREST OF EVERY OTHER CORRUGATION.

| TABLE OF STONE LINED APRONS | | | | | | | | | |
|-----------------------------|------------|--------------|--|---|---|--|--|--|--|
| LOCATION | WIDTH (FT) | LENGTH+ (FT) | ITEM 206.0201 TRENCH & CULVERT EXCAVATION (CY) | ITEM 620.05 STONE FILL HEAVY (CY) | ITEM 620.0801 BEDDING MATERIAL (CY) | | | | |
| INLET | 22.25 | 10.0 | 30.8 | 27.6 | 3.2 | | | | |
| OUTLET | 22.25 | 20.0 | 58.5 | 48.9 | 9.6 | | | | |
| | | TOTAL | 89.3 | 76.5 | 12.8 | | | | |



WANT ABEELINE AKE ROAD, SH 8306

CULVERT C550004



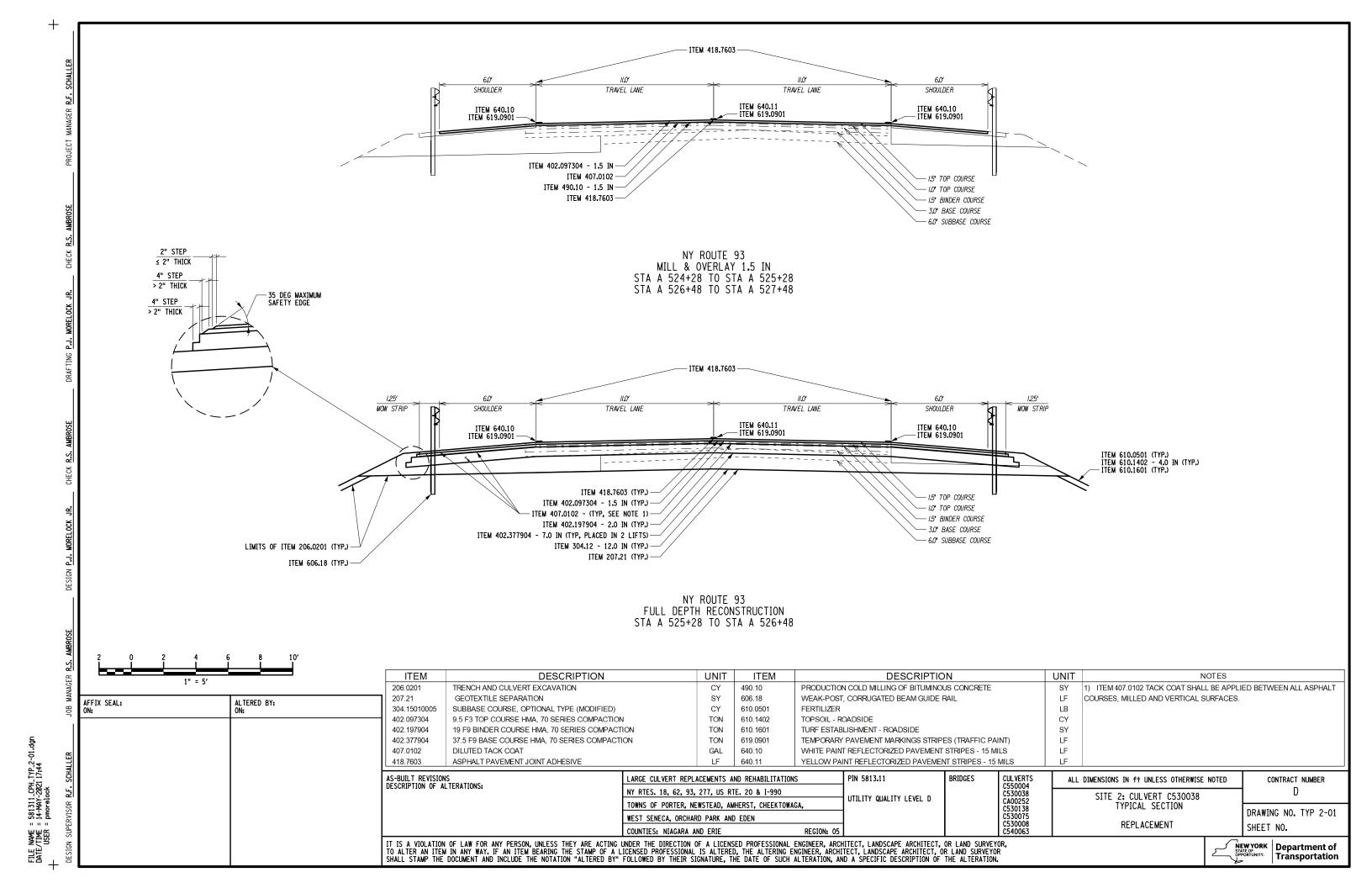
| CULVERT REHABILITATION - INVERT PAVING | | | | | | | | | |
|--|-------|-----------|-----------------|--------------|------|------------------------------------|--------|--------------------------|---------------|
| CULVERT NUMBER | ROUTE | SH NUMBER | REF. MARKER | MUNICIPALITY | TYPE | EXIST. SIZE | LENGTH | TREATMENT | 602.2002 (SF) |
| C550004 | NY 18 | SH 8306 | RM 18-5401-1094 | PORTER | CMPA | 14'-3" x 8'-11" (5 GAUGE STEEL) | 138′ | STRUCTURAL INVERT PAVING | 2553 SF. |

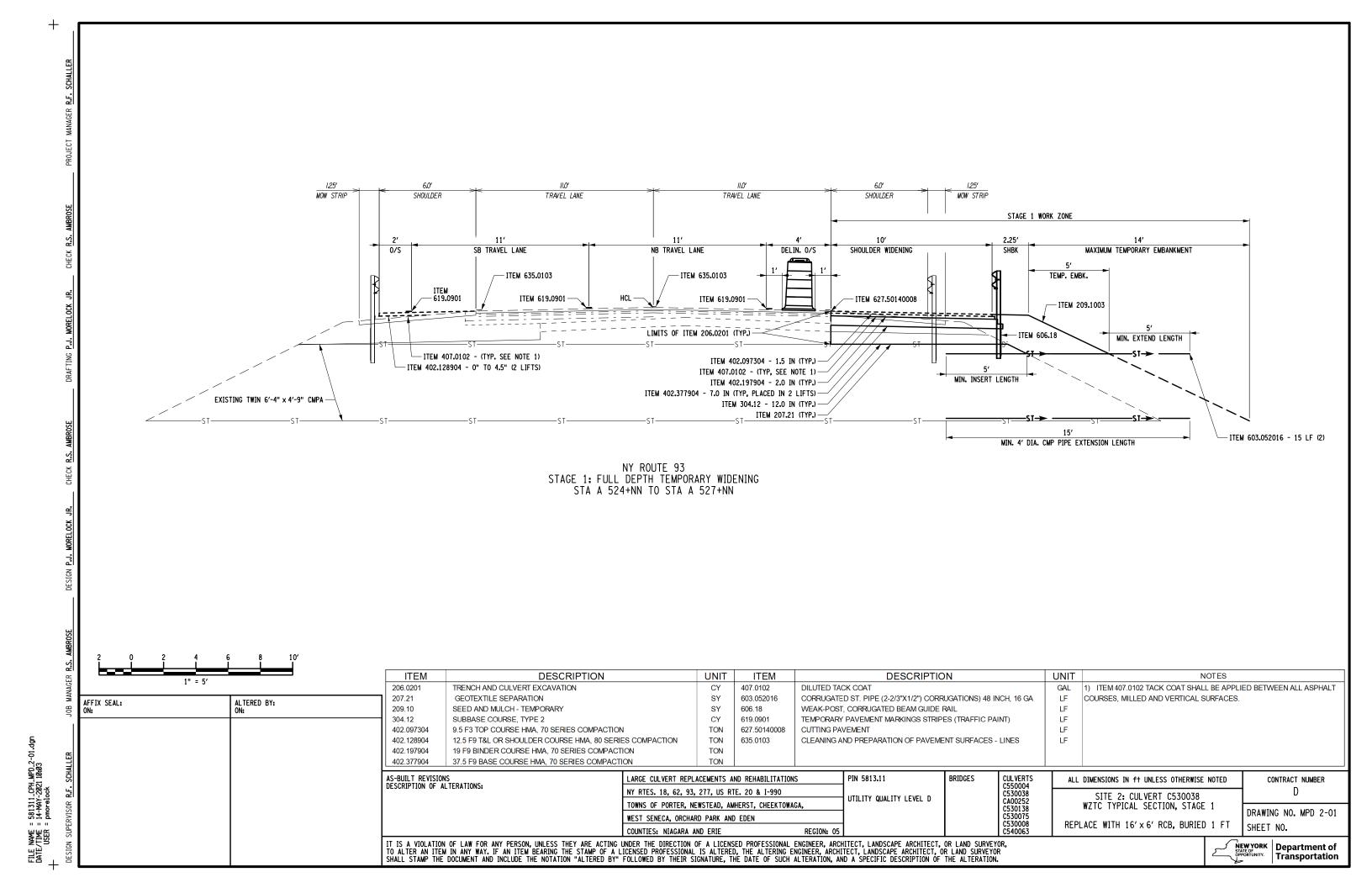
ITEM 602.2002 - STRUCTURAL PAVING OF INVERTS WITH PORTLAND CEMENT CONCRETE (SF.)

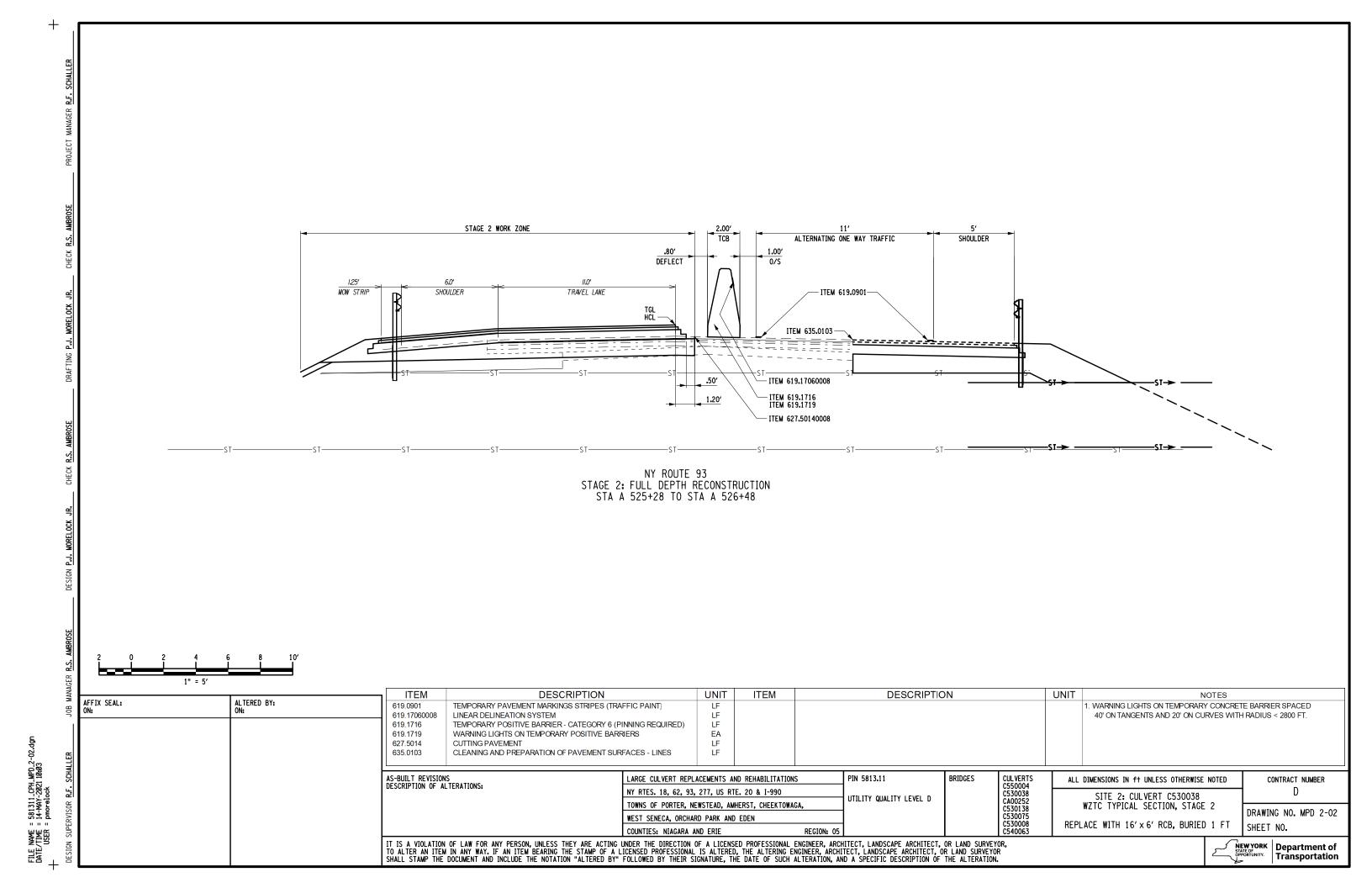
| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | | PIN 5813.11 | BRIDGES | CULVERTS C550004 | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|---|--|------------------------------|---------|---------------------|---|----------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | C530038 | C530038 | SITE 1: CULVERT C550004 | T D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTILITY QUALITY LEVEL D | | CA00252 C530138 | CULVERT DETAILS | DDAWTNO NO OUR 4 O4 |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | C530075 C530008 | CONCRETE DAVED INVEST | DRAWING NO. CUL 1-01 |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | C540063 | CONCRETE PAVED INVERT | SHEET NO. |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" | 2 | Department of Transportation | | | | |

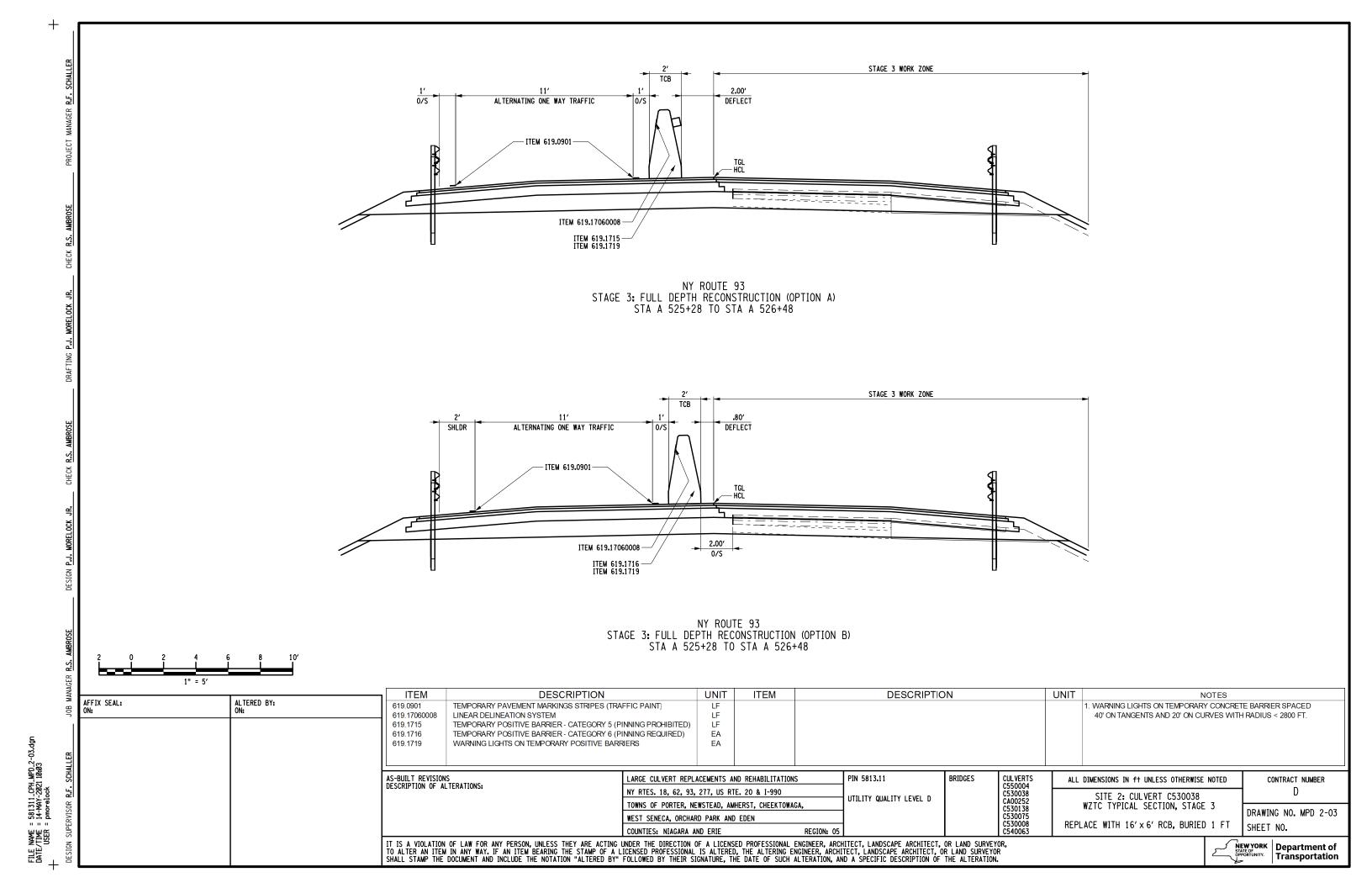
GRID NORTH

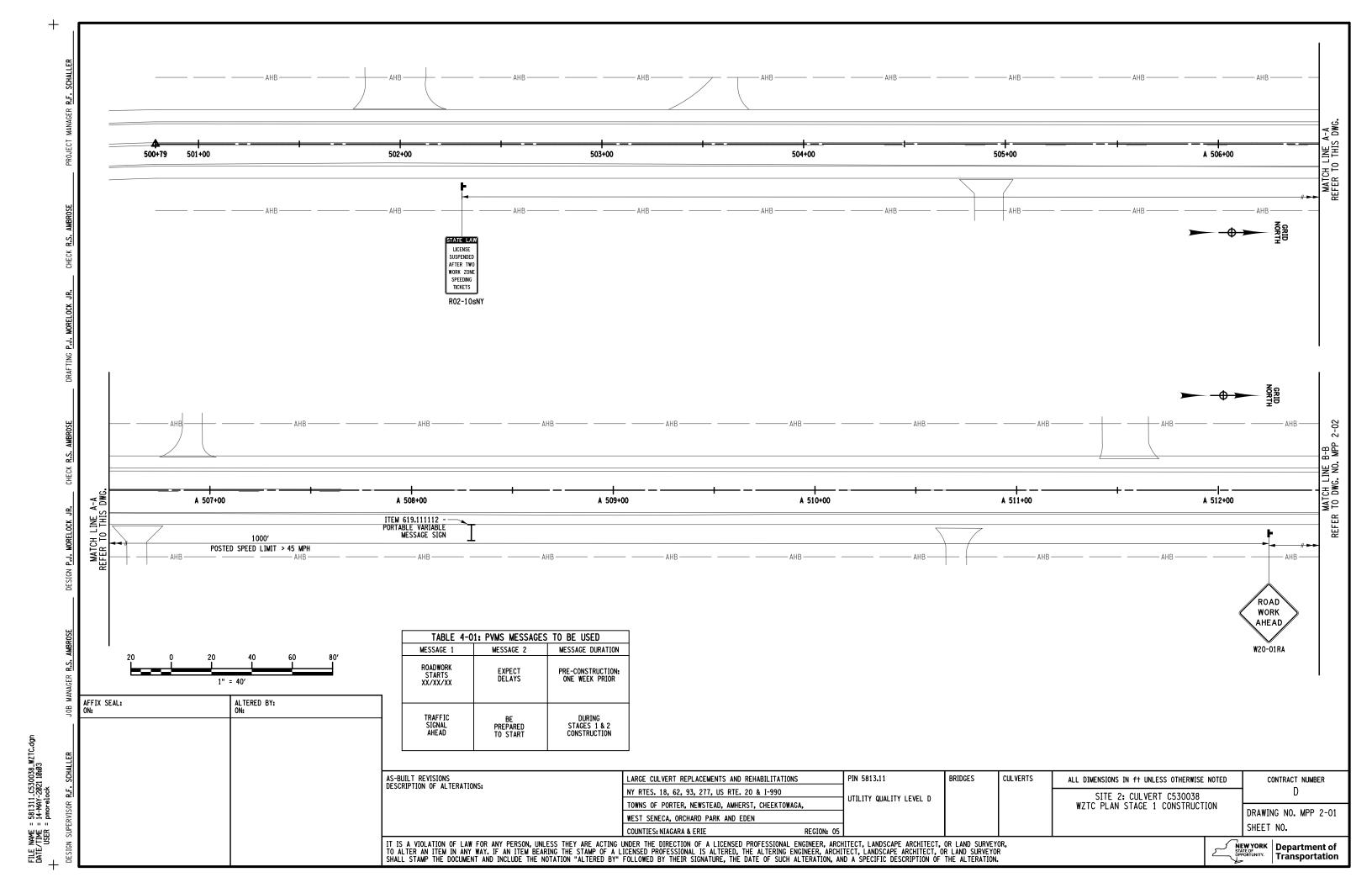
= 581311_CPH_CUL_1-01.d = 14-MAY-2021 10:03 = pmorelock

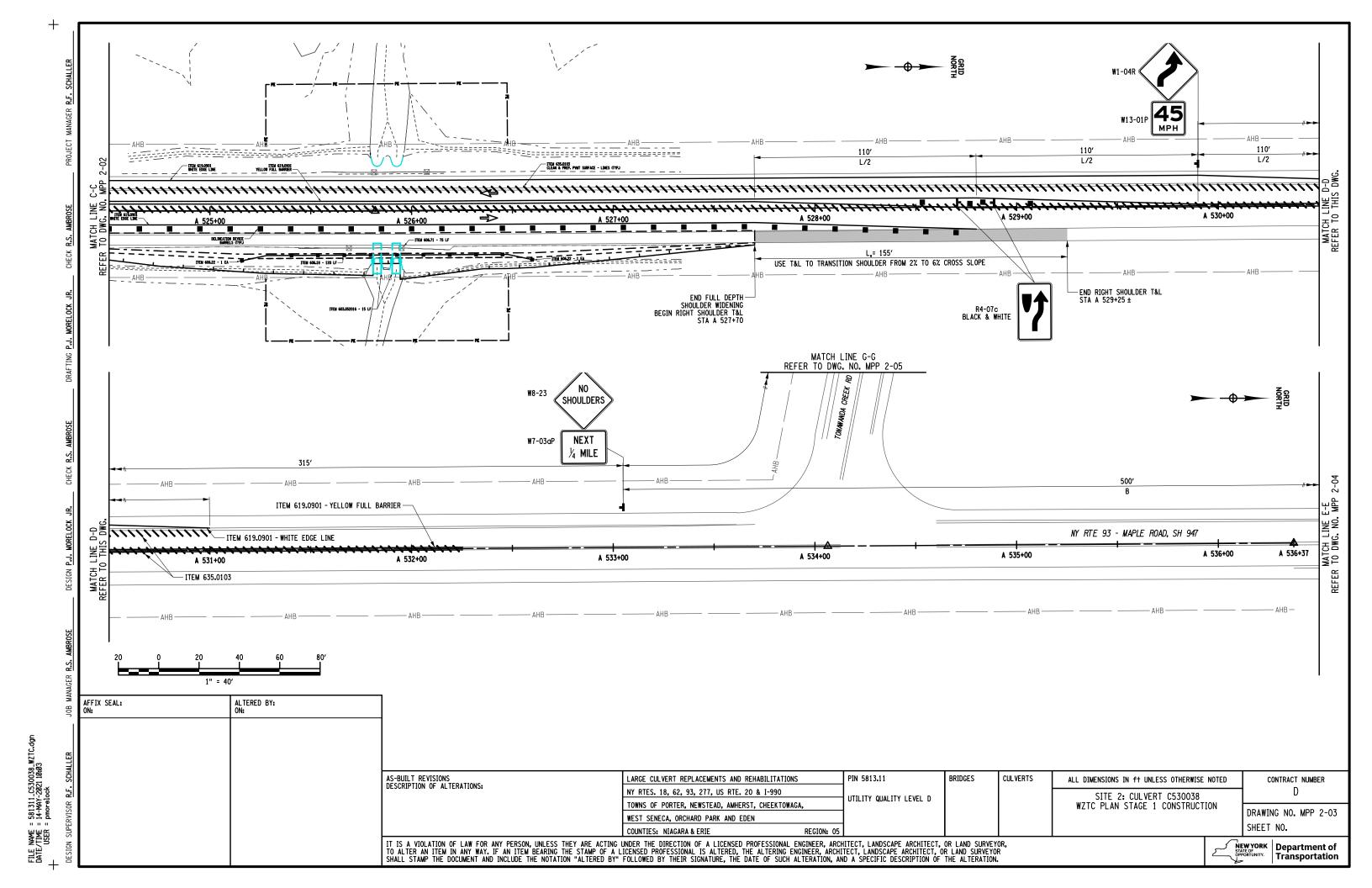


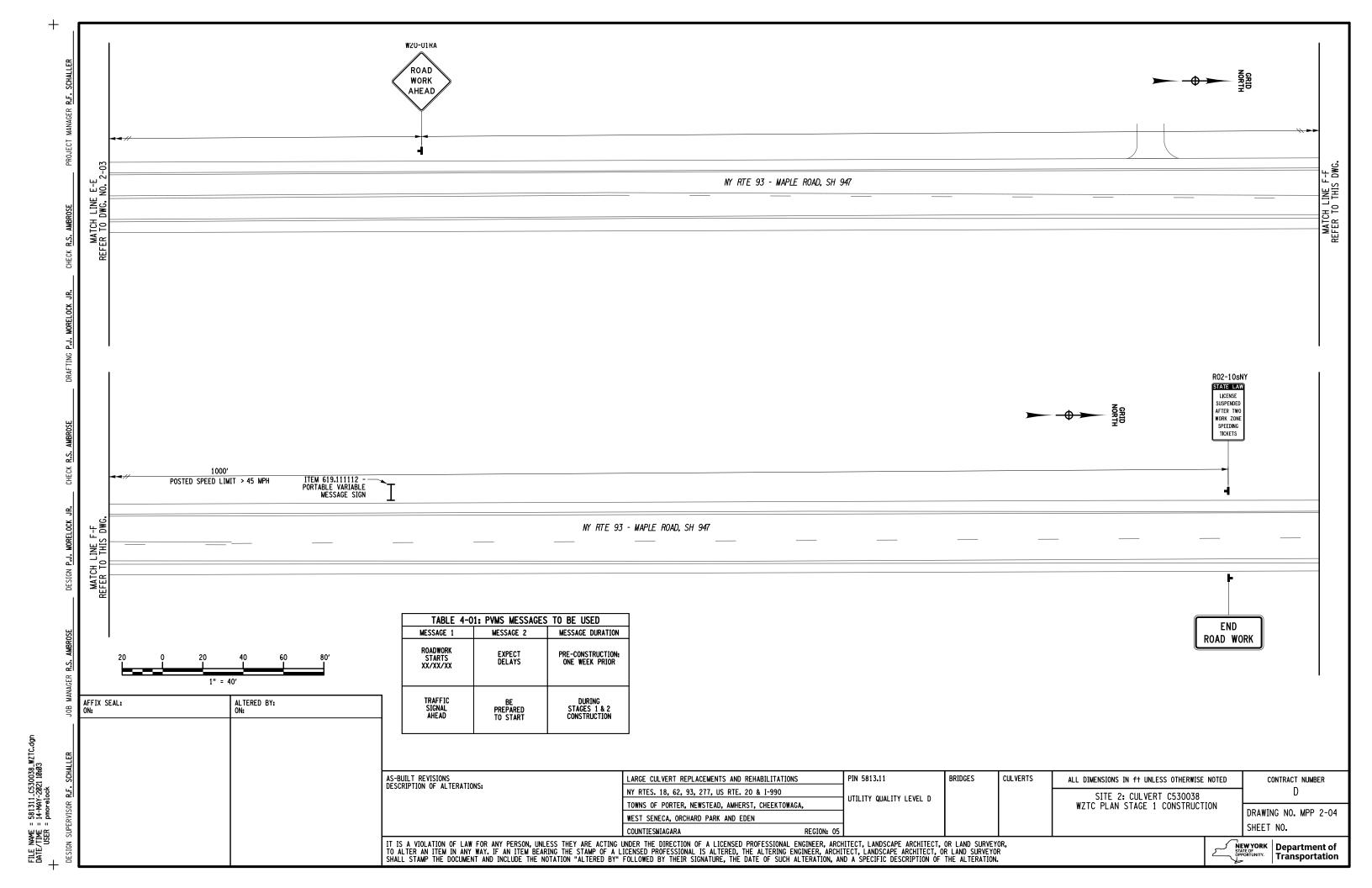


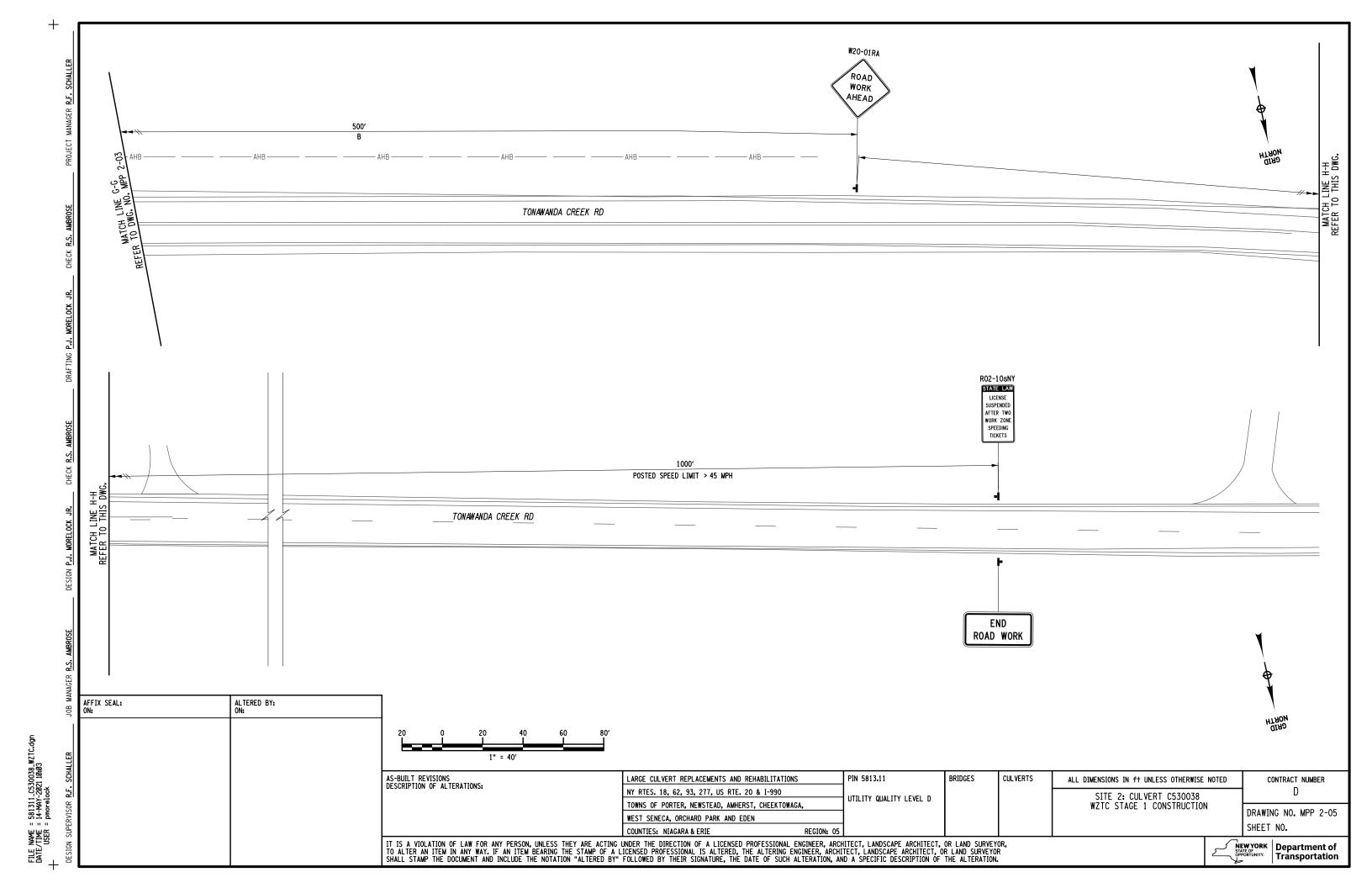


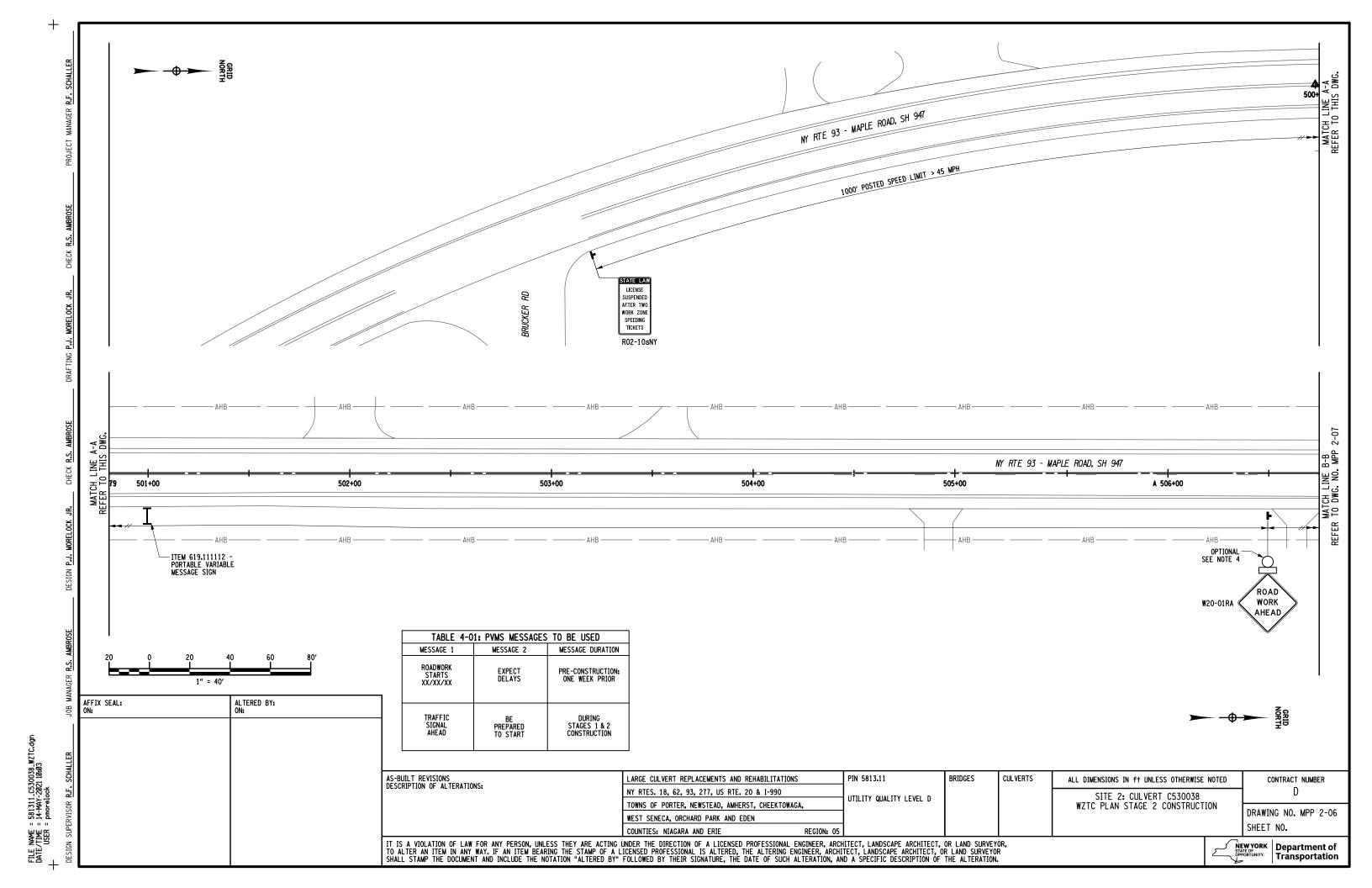


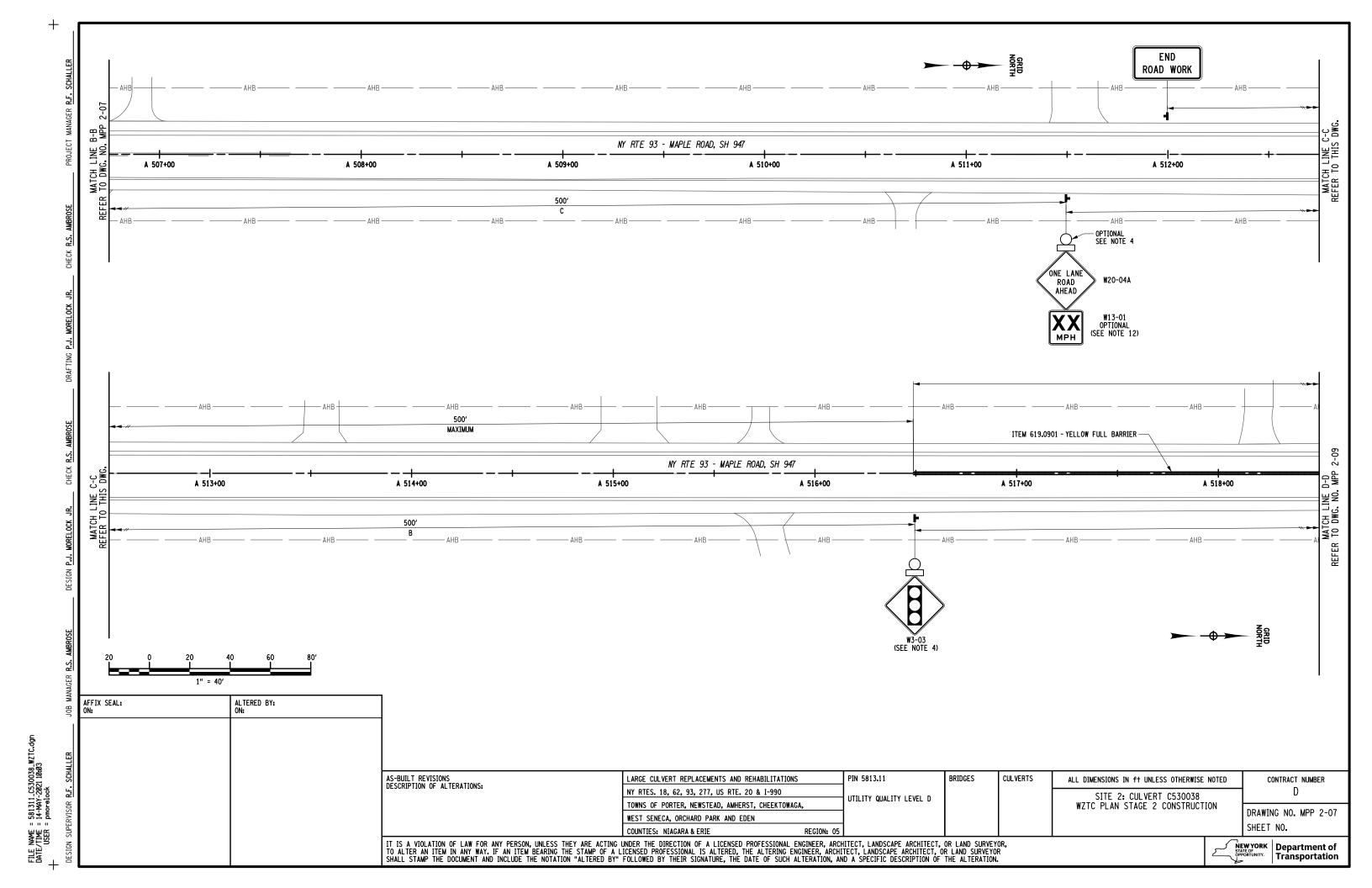












NOTES:

- FOR LONG DURATION LANE CLOSURES, TEMPORARY / INTERIM PAVEMENT MARKINGS SHALL BE USED IN ACCORDANCE TO THE CONTRACT DOCUMENTS. ANY EXISTING PAVEMENT MARKINGS
- 2. THE TEMPORARY CONCRETE BARRIER SHALL NOT BE PLACED ALONG THE MERGING TAPER. THE LANE SHALL BE CLOSED USING CHANNELIZING DEVICES AND PAVEMENT MARKINGS.
- 3. WHEN PAYED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND TO DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVELED WAY.
- 4. FLASHING WARNING LIGHTS ARE REQUIRED ON THE W3-3 SIGNAL AHEAD SIGN. FLASHING WARNING LIGHTS ARE AN OPTION ON THE ROAD WORK AHEAD SIGN (W20-1) AND ONE LANE ROAD AHEAD SIGNS (W20-4) AND MAY BE USED TO INCREASE TARGET VALUE AND VISIBILITY, AS DETERMINED BY THE ENGINEER.
- 5. REFER TO MUTCD FOR ADDITIONAL TRAFFIC SIGNAL REQUIREMENTS.
- 6. DETECTORS SHALL BE INSTALLED ON ALL APPROACH LANES AND ALL PHASES SHALL BE ACTUATED.

 DURATION OF RED CLEARANCE INTERVALS SHALL BE ADEQUATE TO CLEAR THE ONE-LANE SECTION OF CONFLICTING TRAFFIC.
- 7. THE TRAFFIC SIGNAL CYCLE SHALL REST IN RED. WHEN THE SIGNAL IS CHANGED TO THE FLASHING MODE, EITHER MANUALLY OR AUTOMATICALLY, RED SIGNAL INDICATIONS SHALL BE FLASHED TO ALL APPROACHES.
- 8. STOP LINES SHALL BE INSTALLED WITH TEMPORARY TRAFFIC SIGNALS FOR INTERMEDIATE AND LONG-TERM CLOSURES. EXISTING, CONFLICTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKINGS, BETWEEN THE ACTIVITY AREA AND THE STOP LINE, SHALL BE REMOVED. AFTER THE TEMPORARY TRAFFIC SIGNAL IS REMOVED, THE STOP LINES AND ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND PERMANENT PAVEMENT MARKINGS RESTORED.
- WHERE NO-PASSING LINES ARE NOT ALREADY IN PLACE, THEY SHALL BE ADDED FOR A DISTANCE OF 500'-600' FROM THE STOP BAR. ANY EXISTING PAVEMENT MARKINGS THAT ARE CONFLICTING OR MISLEADING SHALL BE REMOVED OR COVERED.
- 10. ADJUSTMENTS IN THE LOCATION OF ADVANCED WARNING SIGNS SHOULD BE MADE TO ACCOMMODATE THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE ROADWAY, RECOGNIZING THAT THE DISTANCES SHOWN FOR SIGN SPACING ARE MINIMUMS. ADJUSTMENTS IN THE HEIGHT OF THE SIGNAL HEADS SHALL BE MADE AS NEEDED TO CONFORM TO THE VERTICAL ALIGNMENT.
- 11. THE SUPPORTS FOR TEMPORARY TRAFFIC CONTROL SIGNALS SHALL NOT ENCROACH INTO THE MINIMUM REQUIRED WIDTH OF A "PEDESTRIAN ACCESS ROUTE" OF 4' OR AN "ALTERNATE CIRCULATION PATH" OF 3'.
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 THE PLAQUE WILL BE USED TO INDICATE AN ADVISORY SPEED FOR THE WORK ZONE CONDITION.
 (IE. NARROW LANES, BUMPS, POOR ROADWAY SURFACE, LOW OR NO SHOULDER, DROP-OFFS, GEOMETRIC CONSTRAINTS, AND/OR POOR SIGHT CONDITIONS).

| OPERATIONAL SCHEDULE FOR TEMPORARY TRAFFIC SIGNALS | | | | | | | |
|---|----|----|----|----|--|--|--|
| PHASE FACE | 1 | 2 | 3 | 4 | | | |
| 1 | G | G | R | R | | | |
| CLEARANCE | Υ | Υ | R | R | | | |
| ALL RED | R | R | R | R | | | |
| 2 | R | R | G | G | | | |
| CLEARANCE | R | R | Υ | Υ | | | |
| ALL RED | R | R | R | R | | | |
| 3 | R | R | R | R | | | |
| CLEARANCE | R | R | R | R | | | |
| ALL RED | R | R | R | R | | | |
| 4 | R | R | R | R | | | |
| CLEARANCE | R | R | R | R | | | |
| ALL RED | R | R | R | R | | | |
| EMERGENCY FLASH | FR | FR | FR | FR | | | |

- 1. TEMPORARY SIGNAL TIMING SHALL BE DETERMINED BY THE REGIONAL TRAFFIC OFFICE.
- 2. DURING STAGE I OF WORKZONE OPERATIONS SIGNAL OPERATIONAL SCHEDULE SHALL INCLUDE A PHASE TO ACCOMODATE PEDESTRIAN TRAFFIC THRU THE WORK ZONE.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

PHASE I TEMPORARY TRAFFIC SIGNAL INTERMEDIATE / LONG TERM STATIONARY LANE CLOSURE ON 2-LANE 2-WAY ROADWAY

(NOT TO SCALE)

FOR MINIMUM LANE WIDTHS SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL GENERAL NOTES"

| | | _ |
|--------------------|--------------------|----------------|
| AFFIX SEAL: ON: | ALTERED BY: ON: | |
| | | |
| | | |
| | | AS-BU DESCR |
| | | DESCR |
| | | |
| | | <u> </u> |

| -BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | ſ |
|---------------------------|--|---|
| SCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | ľ |
| | WEST SENECA, ORCHARD PARK AND EDEN | |
| | COUNTY: NIAGARA REGION: 05 | L |

| PIN 5813.11 | BRIDGES |
|-------------------------|---------|
| UTILITY QUALITY LEVEL D | |

CULVERTS

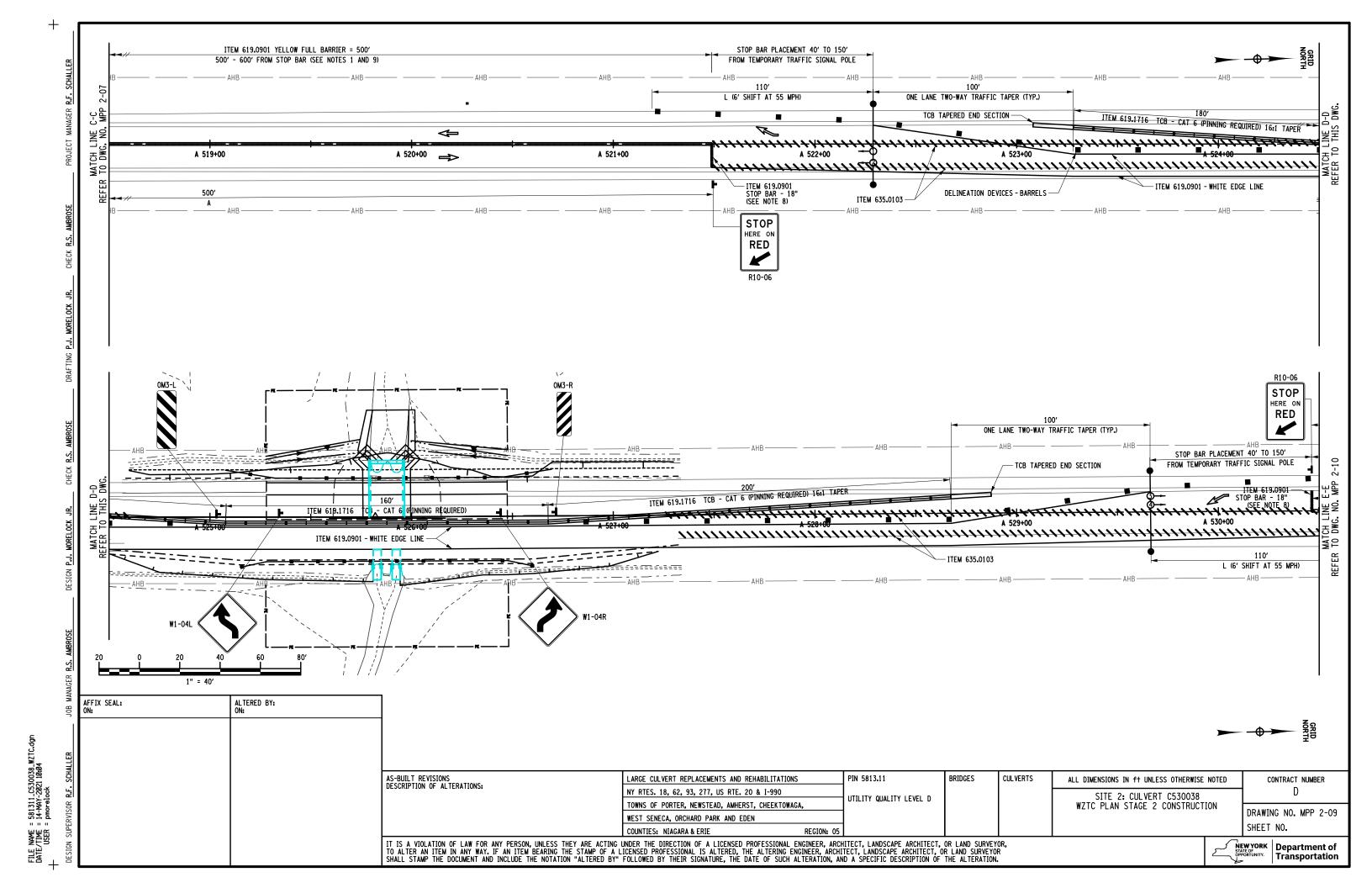
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED SITE 2: CULVERT C530038

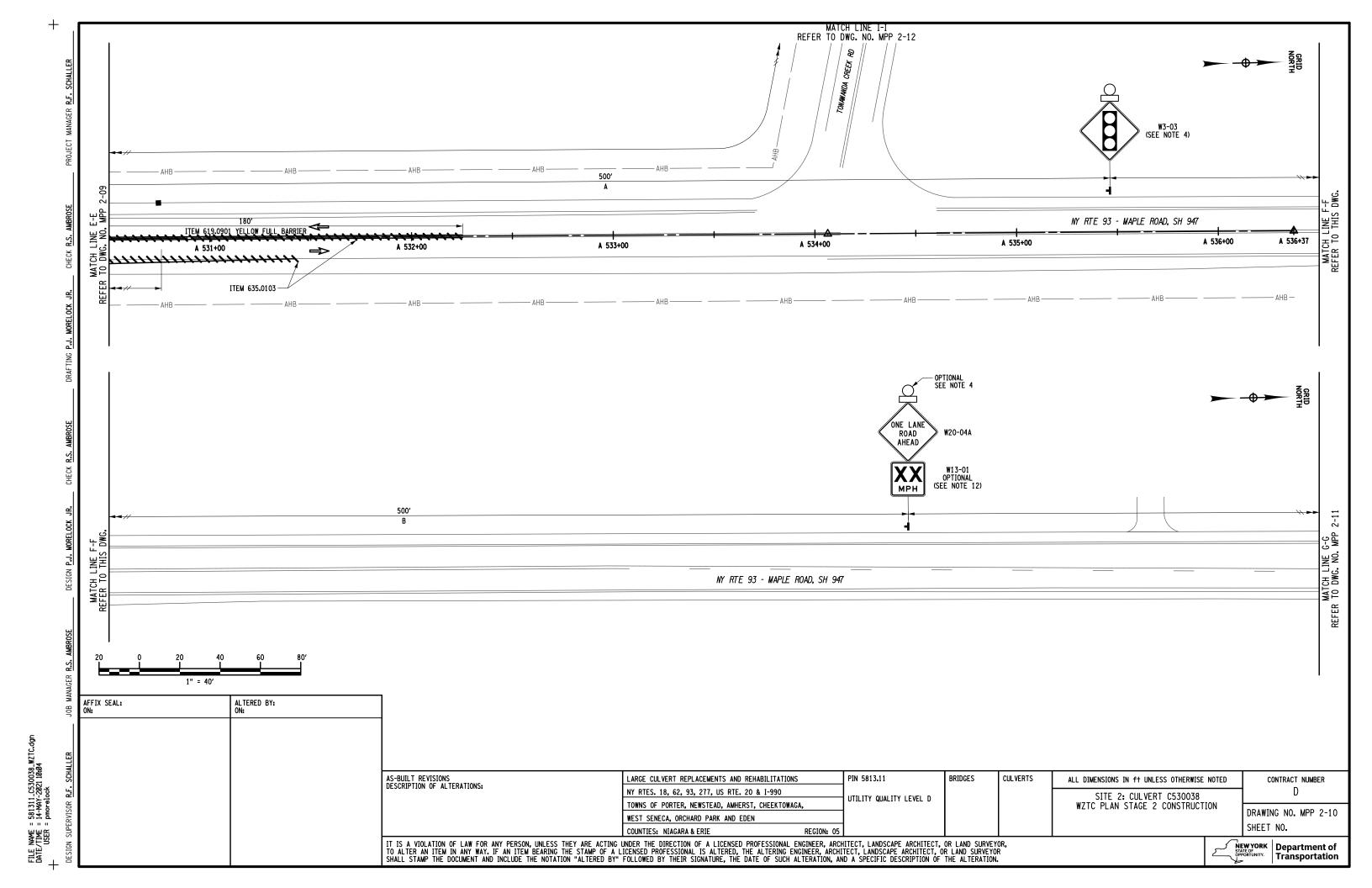
CONTRACT NUMBER DRAWING NO. MPP 2-08

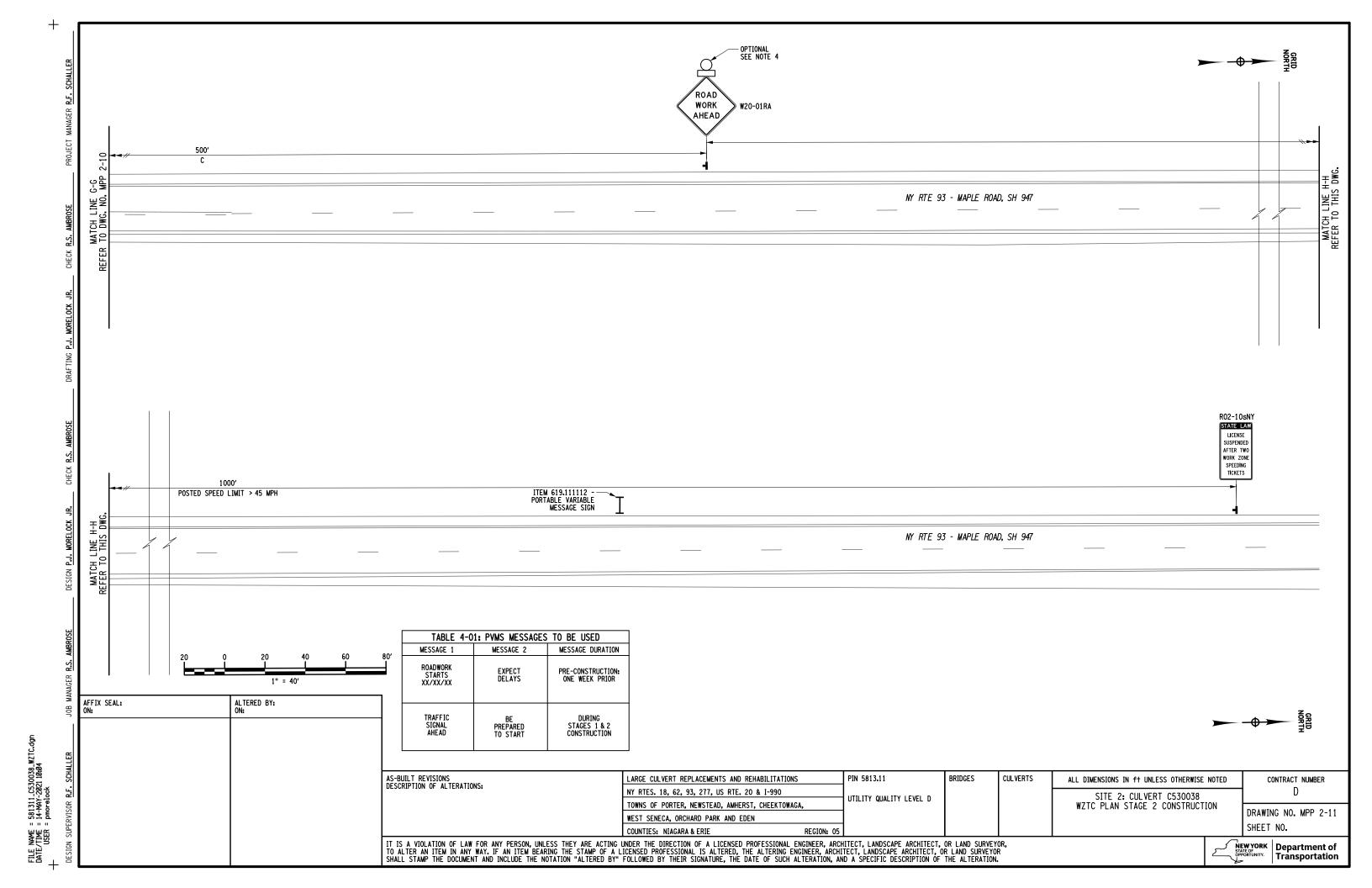
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

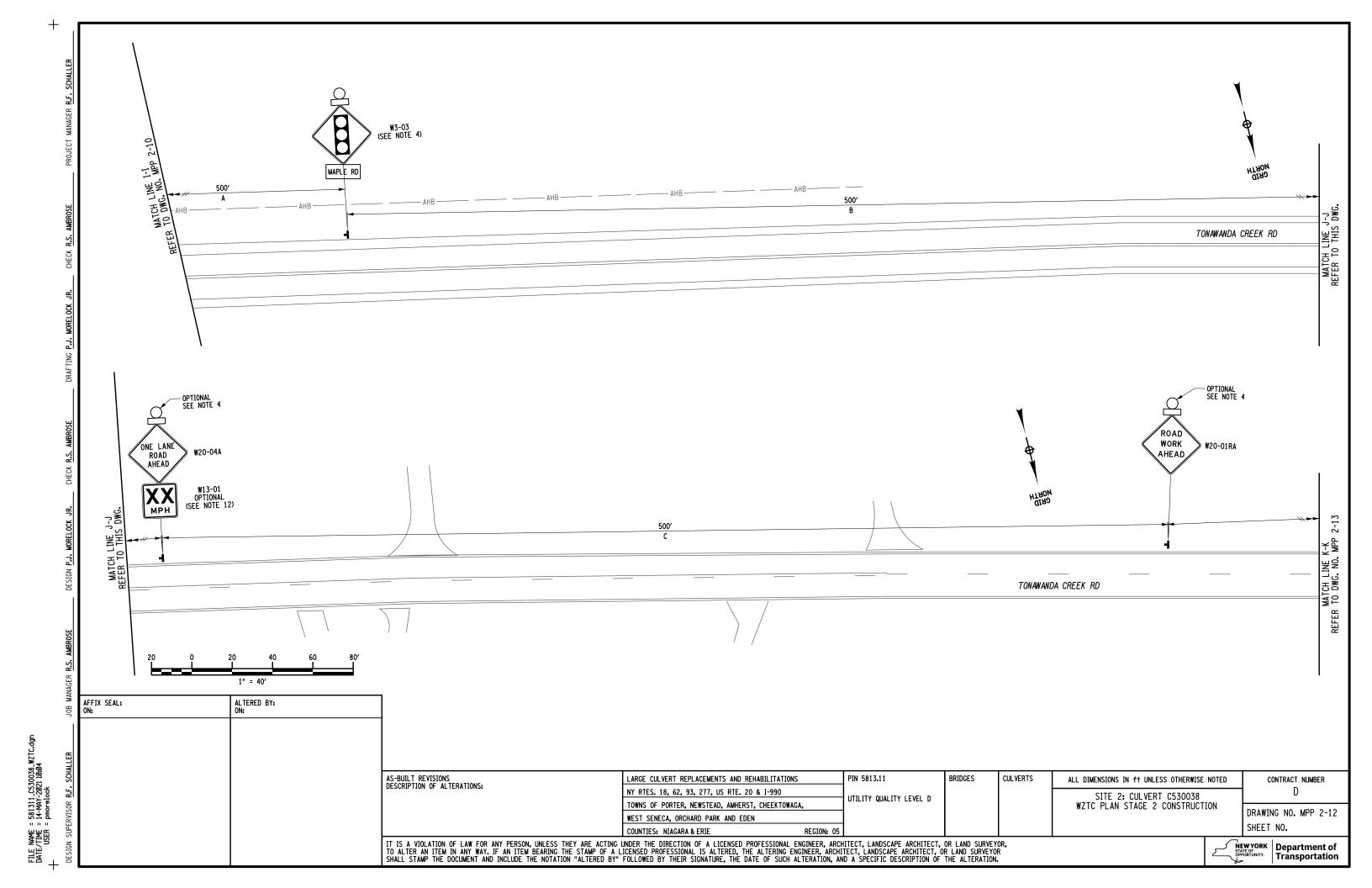
SHEET NO.

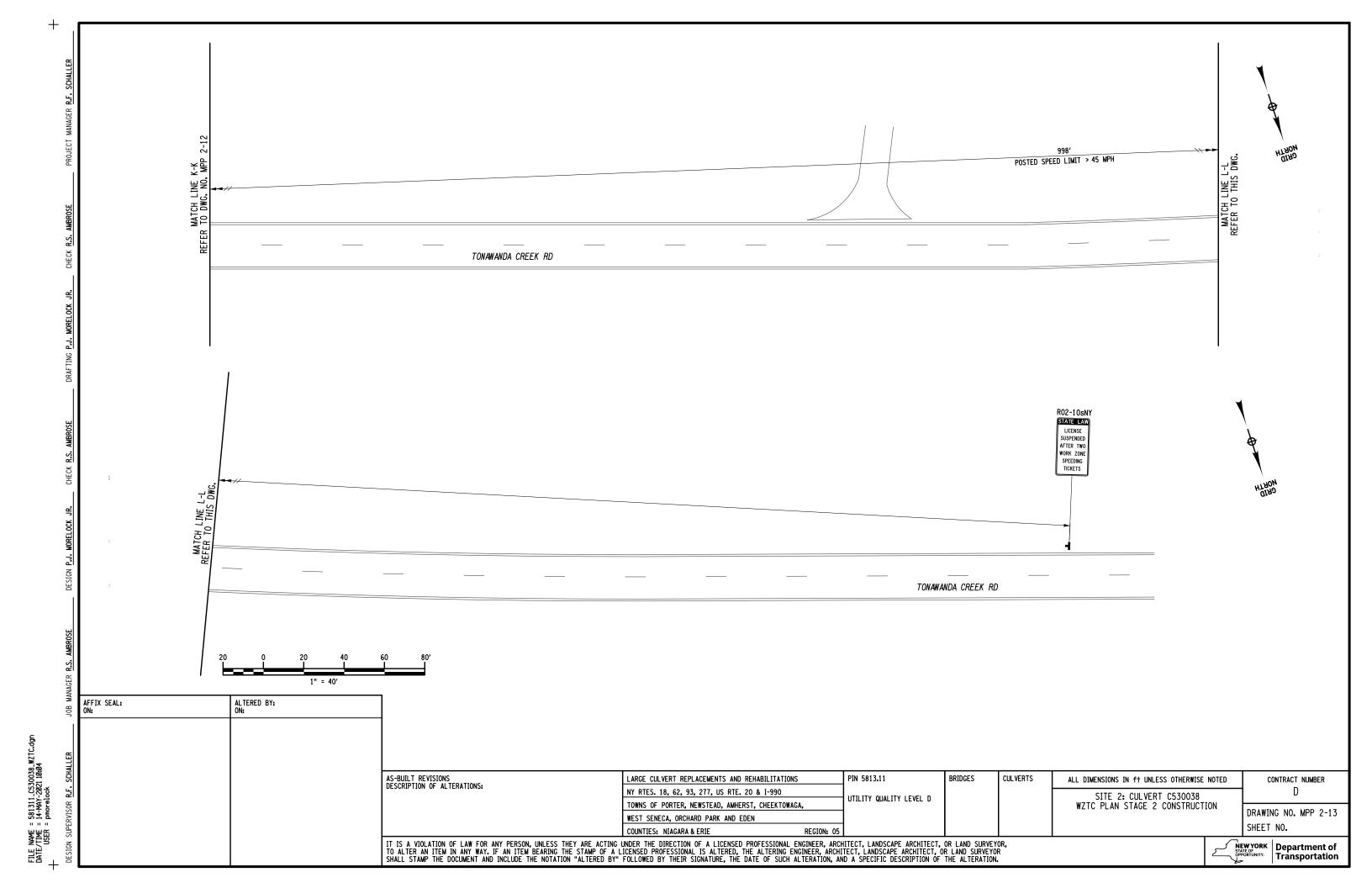
NEW YORK STATE OF OPPORTUNITY. Department of Transportation

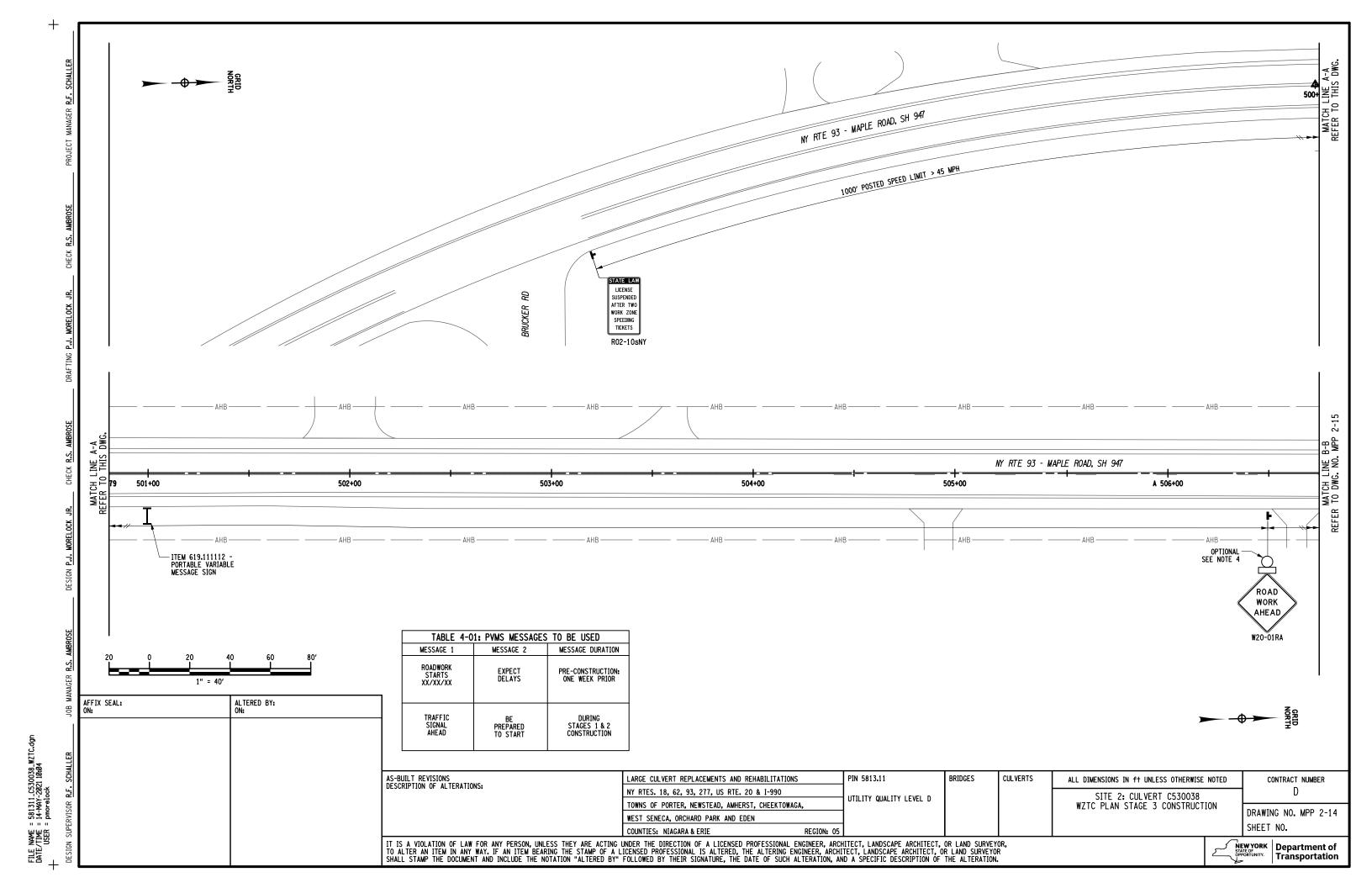


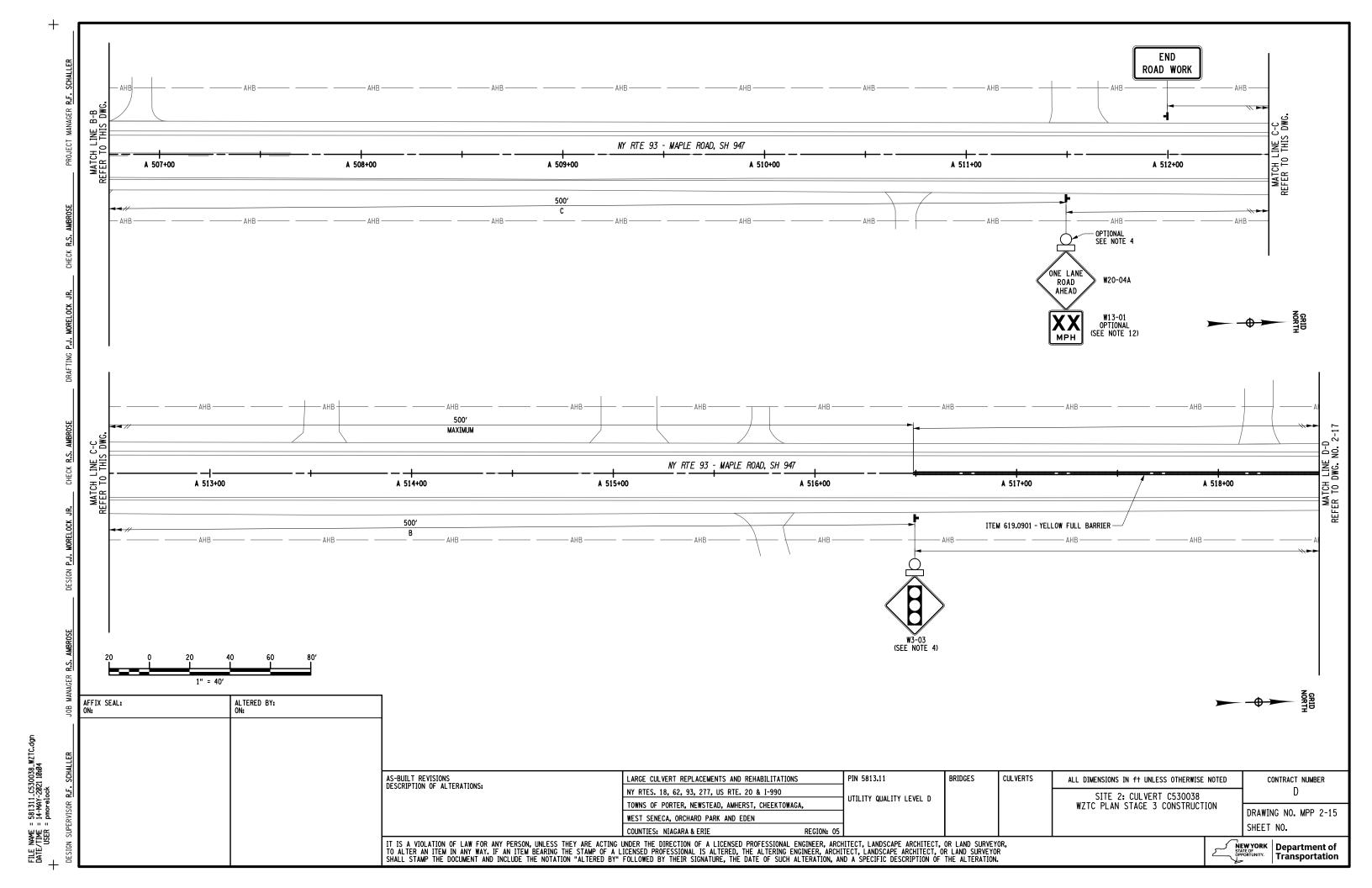












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| OPERATIONAL SCHEDULE FOR TEMPORARY TRAFFIC SIGNALS | | | | | | | |
|---|----|----|----|----|--|--|--|
| PHASE FACE | 1 | 2 | 3 | 4 | | | |
| 1 | G | G | R | R | | | |
| CLEARANCE | Υ | Υ | R | R | | | |
| ALL RED | R | R | R | R | | | |
| 2 | R | R | G | G | | | |
| CLEARANCE | R | R | Υ | Υ | | | |
| ALL RED | R | R | R | R | | | |
| 3 | R | R | R | R | | | |
| CLEARANCE | R | R | R | R | | | |
| ALL RED | R | R | R | R | | | |
| 4 | R | R | R | R | | | |
| CLEARANCE | R | R | R | R | | | |
| ALL RED | R | R | R | R | | | |
| EMERGENCY FLASH | FR | FR | FR | FR | | | |

NOTES

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- 2. DURING STAGE I OF WORKZONE OPERATIONS SIGNAL OPERATIONAL SCHEDULE SHALL INCLUDE A PHASE TO ACCOMODATE PEDESTRIAN TRAFFIC THRU THE WORK ZONE.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

PHASE I TEMPORARY TRAFFIC SIGNAL INTERMEDIATE / LONG TERM STATIONARY LANE CLOSURE ON 2-LANE 2-WAY ROADWAY

(NOT TO SCALE)

FOR MINIMUM LANE WIDTHS SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL GENERAL NOTES"

| | AFFIX SEAL: ON: | ALTERED BY: ON: | |
|---|--------------------|--------------------|---|
| | | | |
| | | | |
| | | | i |
| 1 | | | |
| | | | |

| BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | F |
|-------------------------|--|----|
| RIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | ١. |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | ľ |
| | WEST SENECA, ORCHARD PARK AND EDEN | |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | L |

PIN 5813.11 BRIDGES
UTILITY QUALITY LEVEL D

CULVERTS A

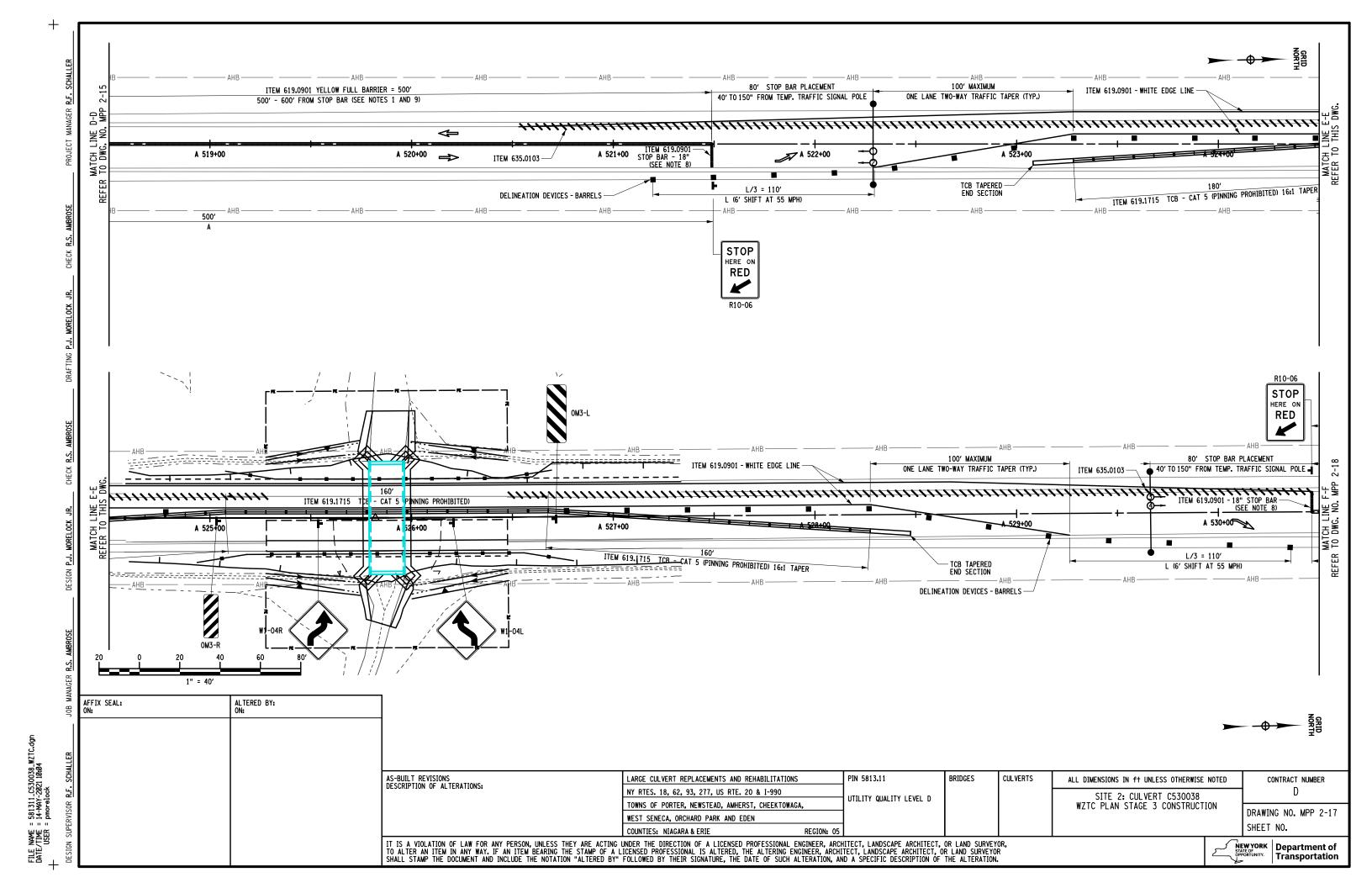
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

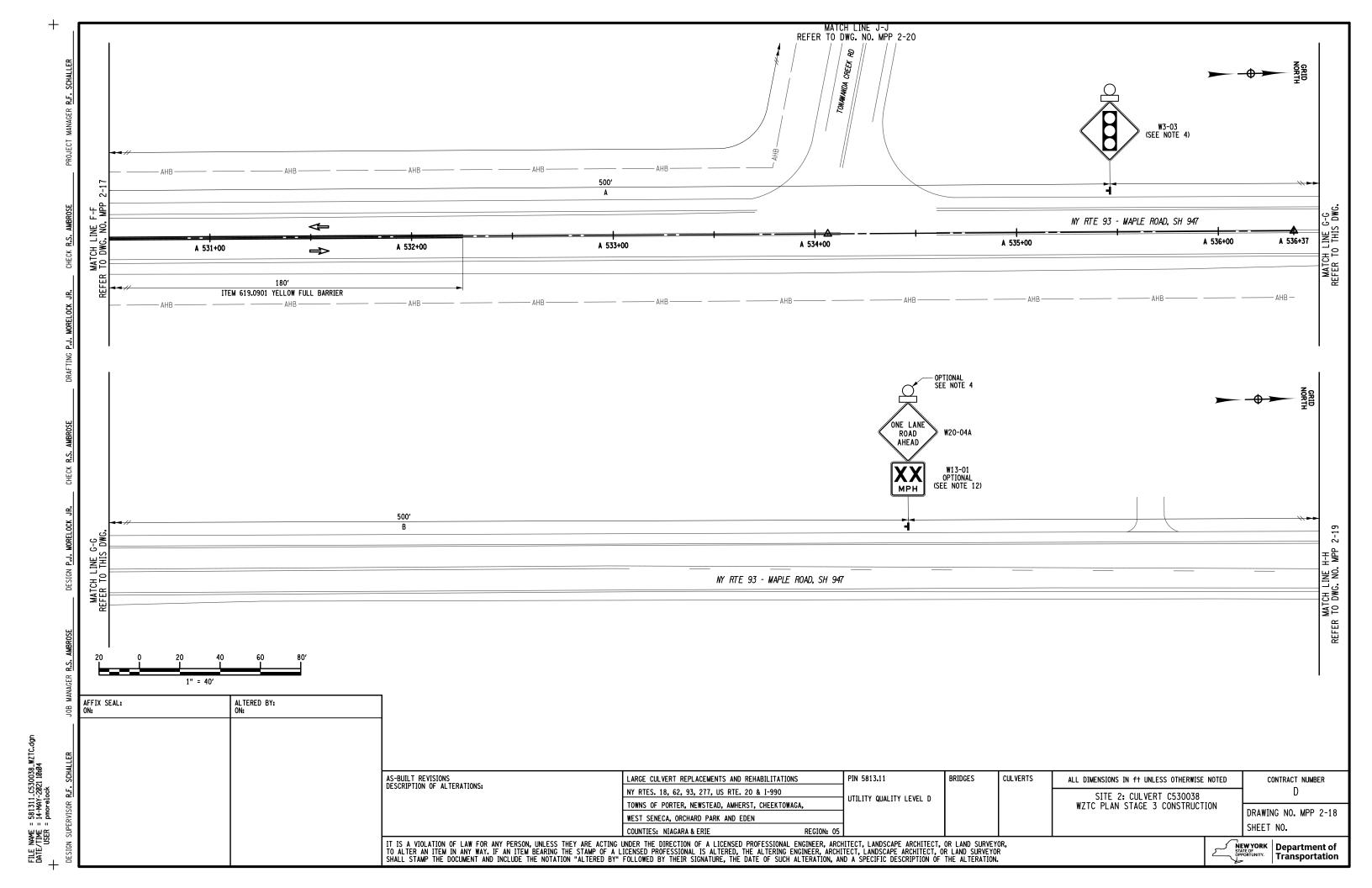
SITE 2: CULVERT C530038
WZTC PLAN STAGE 3 CONSTRUCTION

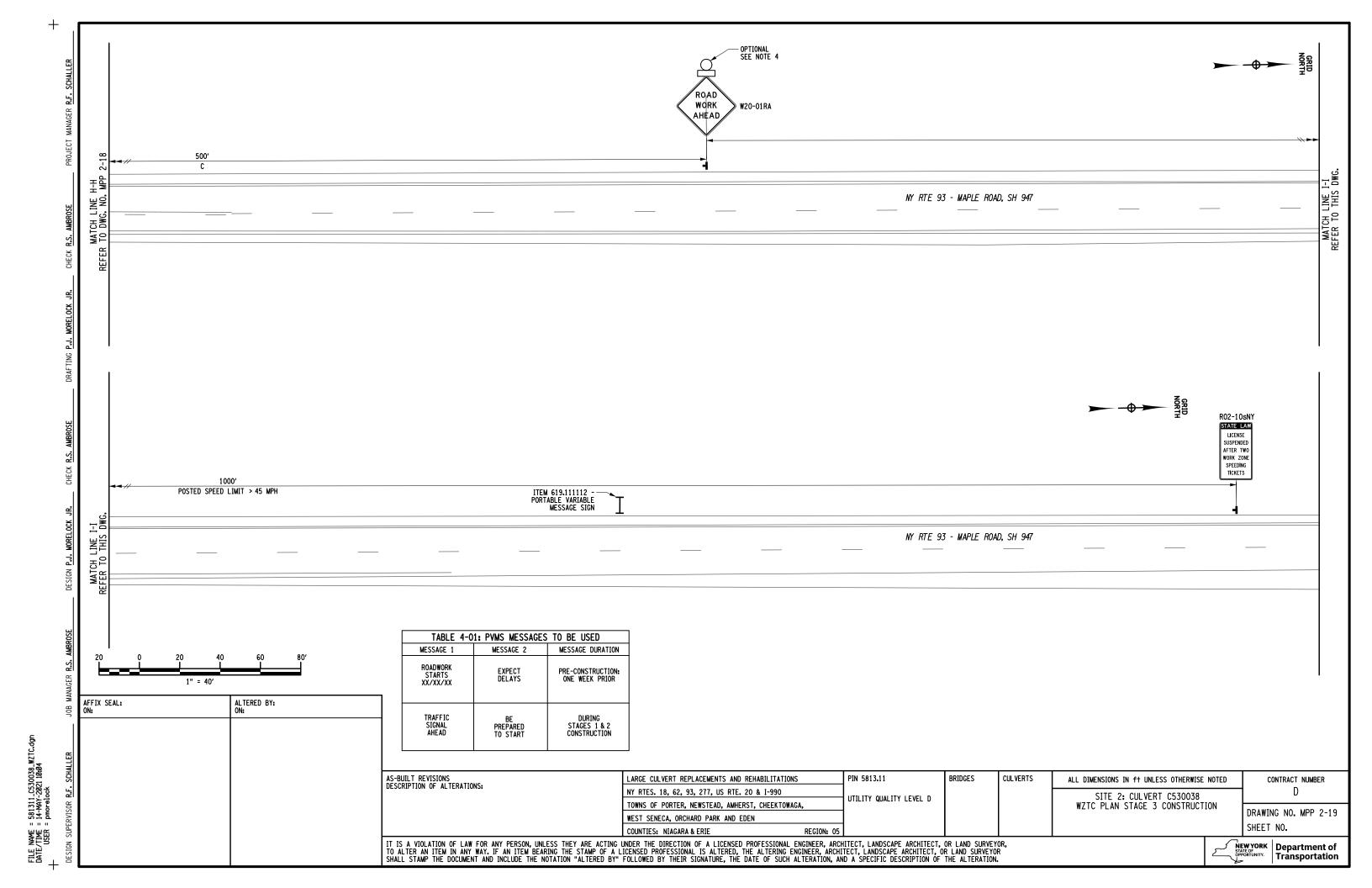
CONTRACT NUMBER D
DRAWING NO. MPP 2-16
SHEET NO.

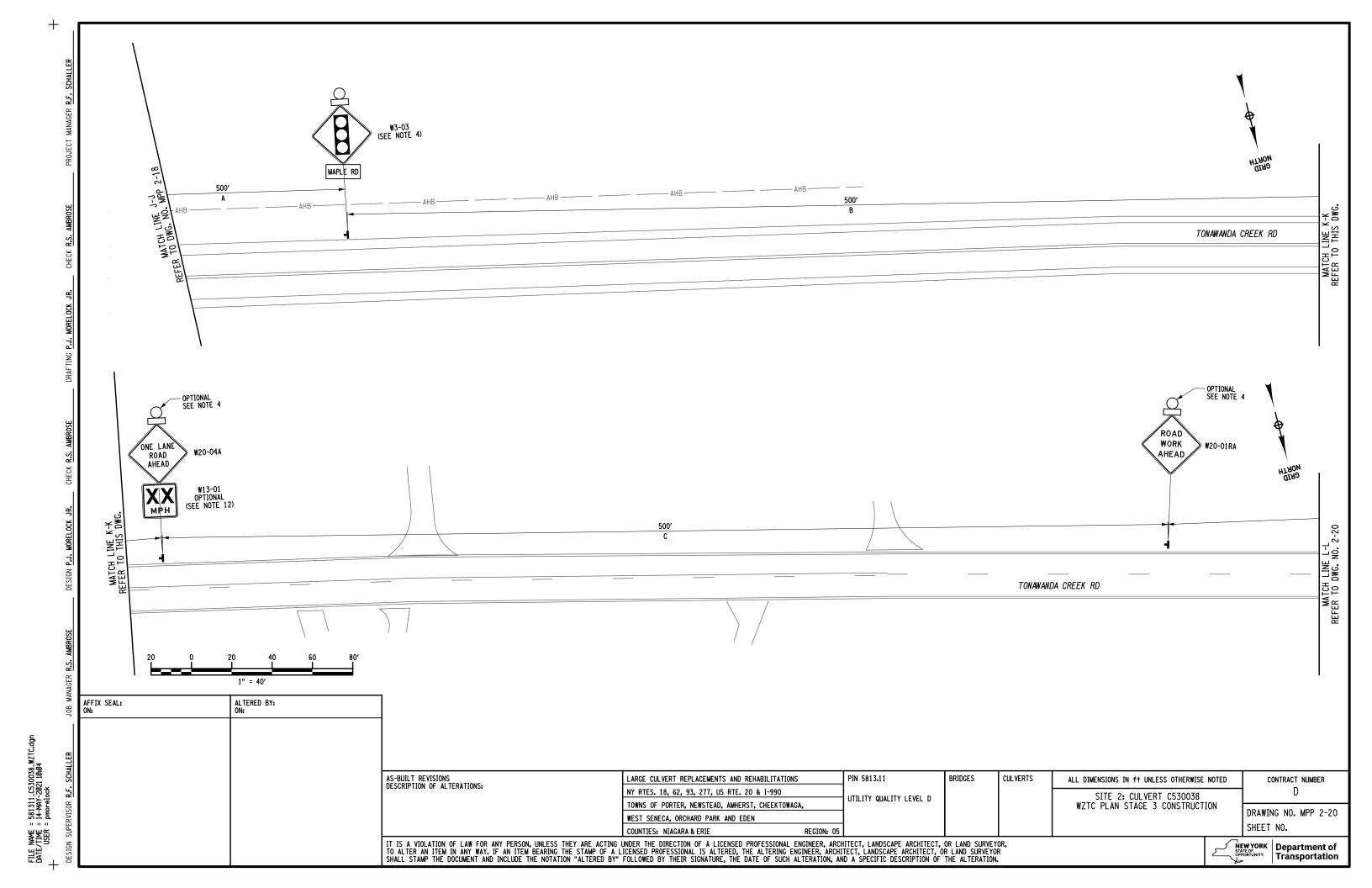
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

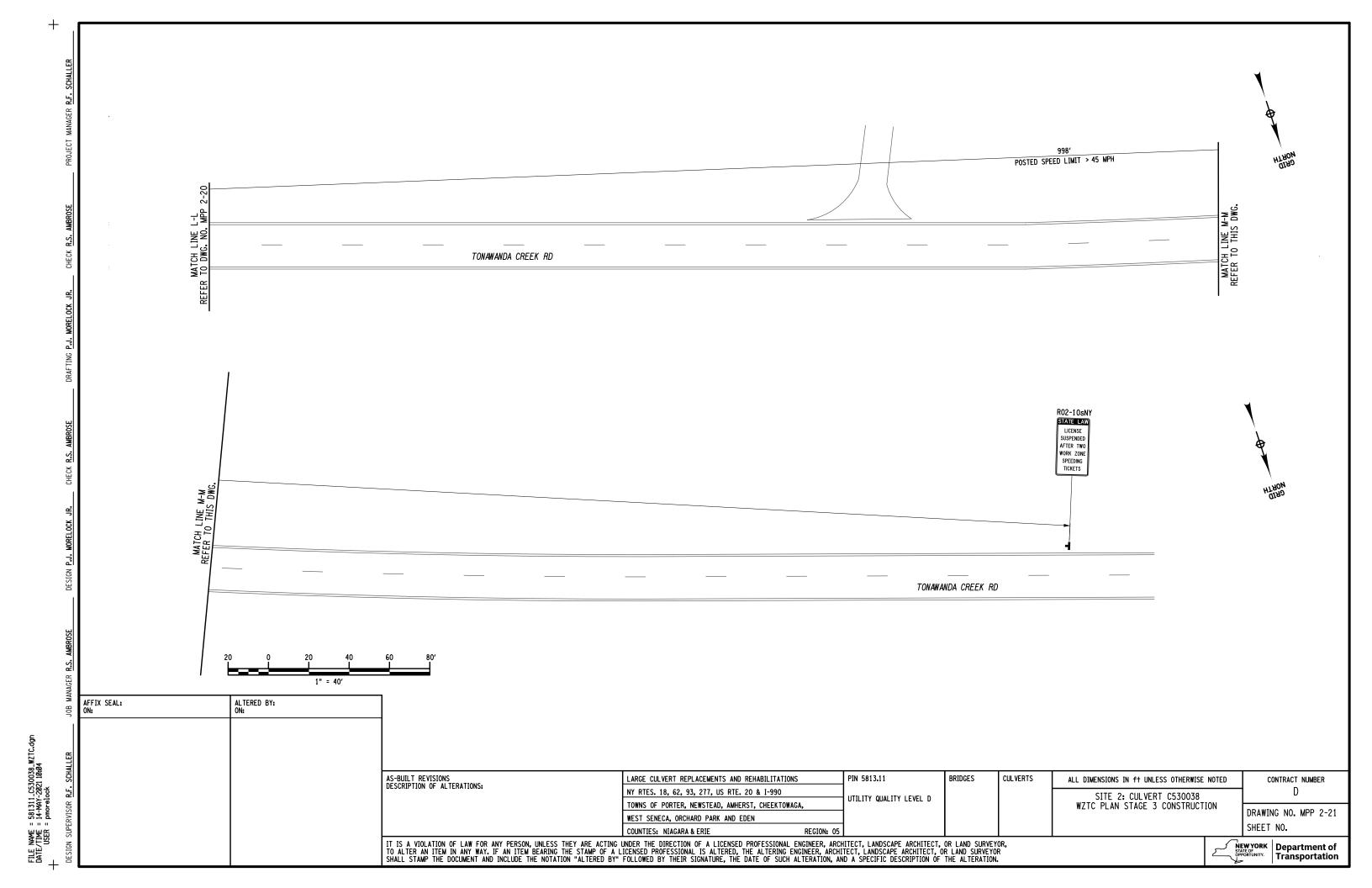
NEW YORK STATE OF OPPORTUNITY. Department of Transportation

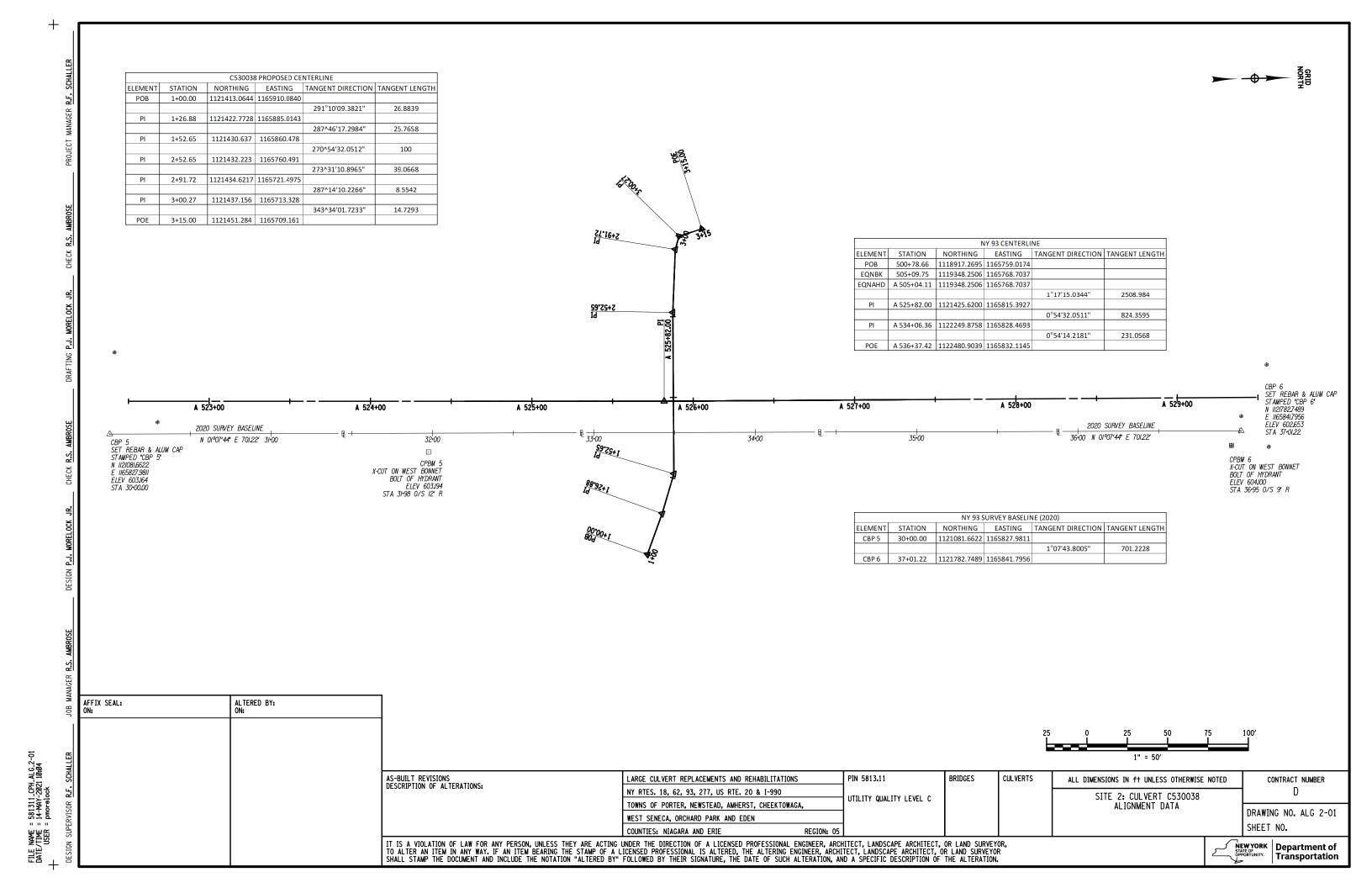












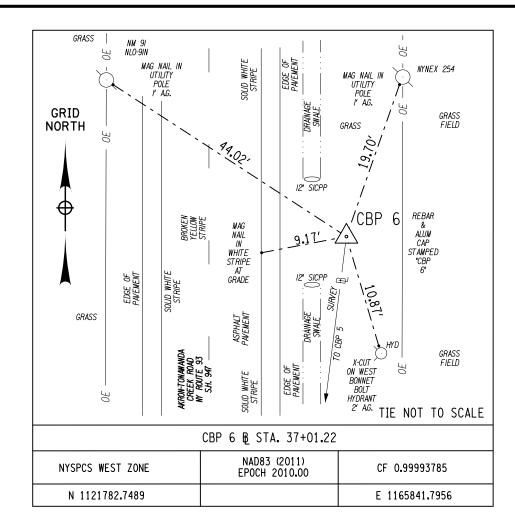


MAG NAIL IN WHITE STRIPE AT GRADE GRASS GRASS POLE I' A.G. NO 1 GRID **NORTH** CBP SOLID WHITE STRIPE REBAR GRASS GRASS NOTCH IN SIGN POST NOTCH IN SIGN POST I' A.G. REF 93 5302 1009 l' A.G. ЭО DELINEATOR TIE NOT TO SCALE CBP 5 B STA. 30+00.00

NYSPCS WEST ZONE

N 1121081.6622

ALTERED BY: ON:



| | TABLE OF BENCHMARKS | | | | | | | |
|--------|----------------------|-----------|--|--|--|--|--|--|
| NAME | B STATION OFFSET | ELEVATION | DESCRIPTION | | | | | |
| CPBM-5 | 31+98 0/S 12′ R | 604.100′ | SET X-CUT ON WEST BONNET BOLT OF A HYDRANT ON THE EAST SIDE OF NY ROUTE 93, 6' EAST FROM THE EDGE OF PAVEMENT, 200' SOUTH DRAINAGE DITCH. | | | | | |
| CPBM-6 | 7BM-6 36+95 603.194' | | SET X-CUT ON WEST BONNET BOLT OF A HYDRANT ON THE EAST SIDE OF NY ROUTE 93, 6' EAST FROM THE EDGE OF PAVEMENT, 200' NORTH FROM A DRAINAGE DITCH. | | | | | |

NOTES:

NAD83 (2011) EPOCH 2010.00

CF 0.99993785

E 1165827.9811

THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WESTERN ZONE, TRANSVERSE MERCATOR PROJECTION OF THE NORTH AMERICAN DATUM OF 1983 (2011) EPOC 2010.00. THE VERTICAL DATUM HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12B).

COORDINATES, BEARINGS AND DISTANCES SHOWN ARE GRID. UNITS ARE IN SURVEY FEET. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 0.99993785.

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN ft UNLESS OTHERWISE | NOTED | CONTRACT NUMBER |
|--|--|-------------------------------|----------------|----------|---------------------------------------|-------------------|------------------------------|
| DESCRIPTION OF ALTERNATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | SITE 2: CULVERT C530038 | | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTILITI QUALITI LEVEL D | | | CONTROL LINE TIES AND BENCHMAN | RKS | DDAWING NO. 41 C O OO |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | | | DRAWING NO. ALG 2-02 |
| | COUNIES: NIAGARA AND ERIE REGION: 05 | | | | | | SHEET NO. |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING U TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LI SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" I | CENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHI | ITECT, LANDSCAPE ARCHITECT, O | R LAND SURVEYO | R | | NE STAT OPP | Department of Transportation |

FILE NAME = 581311_CPH_ALG_2-02 DATE/TIME = 14-MAY-2021 10:04 USER = pmorelock

AFFIX SEAL: ON:

| _ | ᆫ |
|---|---|
| _ | г |
| | • |

CHECK R.S. AMBROSE

DRAFTING P.J. MORELOCK JR.

CHECK R.S. AMBROSE

DESIGN P.J. MORELOCK JR.

AGER R.S. AMBROSE

AFFIX SEAL: ON: ALTERED BY: ON:

FILE NAME = 581311.CPH_MST_2-01.dgn DATE/TIME = 14-MAY-2021 10:04 USER = pmorelock

| ITEM 203.07 (CY) | | | | | | | |
|----------------------|-------|--------|--|--|--|--|--|
| SELECT GRANULAR FILL | | | | | | | |
| C530038 CULVERT | | | | | | | |
| CTA TION | SELEC | T FILL | | | | | |
| STATION | (SF) | (CY) | | | | | |
| 1+44.65 | 0.00 | N/A | | | | | |
| 1+49.65 | 0.00 | 0.00 | | | | | |
| 1+49.65 | 0.00 | N/A | | | | | |
| 1+52.65 | 0.00 | 0.00 | | | | | |
| 1+61.87 | 0.00 | 0.00 | | | | | |
| 1+64.70 | 0.00 | 0.00 | | | | | |
| 1+66.35 | 0.00 | 0.00 | | | | | |
| 1+68.24 | 0.00 | 0.00 | | | | | |
| 1+69.65 | 66.00 | 1.72 | | | | | |
| 1+71.15 | 66.01 | 3.67 | | | | | |
| 1+72.15 | 47.50 | 2.10 | | | | | |
| 1+80.65 | 47.50 | 14.95 | | | | | |
| 1+86.65 | 47.50 | 10.56 | | | | | |
| 1+97.65 | 47.50 | 19.35 | | | | | |
| 2+08.65 | 47.50 | 19.35 | | | | | |
| 2+14.65 | 47.50 | 10.56 | | | | | |
| 2+23.15 | 47.50 | 14.95 | | | | | |
| 2+24.15 | 66.01 | 2.10 | | | | | |
| 2+25.65 | 66.01 | 3.67 | | | | | |
| 2+26.65 | 0.00 | 1.22 | | | | | |
| TOTALS | 596.5 | 104.0 | | | | | |

| ITEM 201.07000004 (SY) | | | | | | | | |
|------------------------|-------------|--------|------|----------------|---------------|--------------|--------|--|
| CLEARING AND GRUBBING | | | | | | | | |
| FROM STATION | TO STATION | OFFSET | SIDE | LENGTH (FT) | WIDTH (FT) | AREA (SF) | SY | |
| A 525+73.37 | A 525+99.61 | 33 | LT | 21.62 | 26.24 | 567.31 | 63.03 | |
| A 525+73.95 | A 525+94.52 | 33 | RT | 21.37 | 20.57 | 439.47 | 48.83 | |
| | | | | | | TOTAL: | 112.00 | |

| ITEM 209.1003 (SY) | | | | | | | |
|------------------------------------|------------|--------|------|----------------|---------------|--------------|--------------|
| SEED AND MULCH TEMPORARY | | | | | | | |
| FROM STATION | TO STATION | OFFSET | SIDE | LENGTH (FT) | WIDTH (FT) | AREA (SF) | AREA (SY) |
| REFER TO ITEM 610.1601 WORKUP 610. | | | | | <u>610.</u> | <u>1601</u> | |
| | тот | | | | | | 264.00 |

| ITEM 207.20 (SY) | | | | | | | | |
|------------------|--------------------|----------------|---------------|--------------|--------------|--|--|--|
| | GEOTEXTILE BEDDING | | | | | | | |
| | C530038 NY RT 93 | | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | AREA (SF) | AREA (SY) | | | |
| A 1+70.35 | A 2+26.35 | 70.74 | 23.67 | 1,674.11 | 186.01 | | | |
| WINGV | VALL #1 | 8.88 | 10.00 | 88.75 | 9.86 | | | |
| WINGV | VALL #2 | 8.88 | 10.00 | 88.75 | 9.86 | | | |
| WINGWALL #3 | | 8.88 | 10.00 | 88.75 | 9.86 | | | |
| WINGW | 8.88 | 10.00 | 88.75 | 9.86 | | | | |
| | | | | TOTAL: | 225.00 | | | |

| ITEM 207.21 (SY) | | | | | | | | |
|-----------------------|------------------|----------------|---------------|--------------|--------------|--|--|--|
| GEOTEXTILE SEPARATION | | | | | | | | |
| | C530038 NY RT 93 | | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | AREA (SF) | AREA (SY) | | | |
| A 525+28.00 | 5,280.00 | 586.67 | | | | | | |
| | | | | TOTAL: | 587.00 | | | |

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|---|---|------------------------------|----------------|----------|---|---|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTICITY WORLTH ELVEL D | | | C530038 | DRAWING NO. MST 2-01 |
| 1 | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 2-01 | |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | _ | SHEET NO. |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING U TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A L SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" | ICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHI | TECT, LANDSCAPE ARCHITECT, O | R LAND SURVEYO | R | نسح ا | NEW YORK STATE OF OPPORTUNITY. Department of Transportation |

AFFIX SEAL: ON:

| ITEM 304.12 (CY) |
|--------------------------|
| SUBBASE COURSE, OPTIONAL |
| TYPE (MODIFIED) |

| C53 | C530038 NY RT 93 | | | | | | |
|-------------|------------------|-------|--|--|--|--|--|
| 074701 | SUBB | ASE | | | | | |
| STATION | (SF) | (CY) | | | | | |
| A 525+28.00 | 49.42 | N/A | | | | | |
| A 525+50.00 | 49.98 | 40.50 | | | | | |
| A 525+74.00 | 50.46 | 44.64 | | | | | |
| A 525+79.00 | 8.49 | 5.46 | | | | | |
| A 525+87.70 | 9.69 | 2.93 | | | | | |
| A 525+96.50 | 8.96 | 3.04 | | | | | |
| A 526+00.00 | 48.91 | 3.75 | | | | | |
| A 526+25.00 | 50.48 | 46.01 | | | | | |
| A 526+47.50 | 49.50 | 41.66 | | | | | |
| TOTALS: | 325.9 | 188.0 | | | | | |
| | | | | | | | |

ALTERED BY: ON:

PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA ITEMS

| I O HIVIA II EIVIS | | | | | | |
|--------------------|--------------------|-------|-----------------------|--|--|--|
| HMA ITEMS | QUANTITY (TONS) | (QAF) | QUALITY UNITS (QU) | | | |
| TOP COURSE | 100 | 0.05 | 5 | | | |
| BINDER COURSE | 55 | 0.05 | 2.75 | | | |
| BASE COURSE | 198 | 0.05 | 9.9 | | | |
| SHIM | 0 | 1.00 | 0 | | | |
| T&L | 67 | 0.05 | 3.35 | | | |
| PERMEABLE BASE | 0 | 0.05 | 0 | | | |
| | 21 | | | | | |

| ITEM 402.097304 (TON) | | | | | | | | |
|---|-------------|----------------|---------------|---------------|--------|--------|--|--|
| 9.5 F3 TOP COURSE HMA, 70 SERIES COMPACTION | | | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS | | |
| | NY RT 9 | 3 MILL & 0 | OVERLAY | | | | | |
| A 524+28.00 | A 525+28.00 | 100.00 | 36.83 | 1.50 | 17.05 | 33.12 | | |
| A 526+48.00 | A 527+48.00 | 100.00 | 36.83 | 1.50 | 17.05 | 33.12 | | |
| NY RT 93 FULL DEPTH RECONSTRUCTION | | | | | | | | |
| A 525+48.00 | A 526+48.00 | 100.00 | 36.83 | 1.50 | 17.05 | 33.12 | | |
| | | | | | TOTAL: | 100.00 | | |

| ITEM 402.197904 (TON) | | | | | | | |
|---|-------------|----------------|---------------|---------------|--------|-------|--|
| 19 F9 BINDER COURSE HMA, 70 SERIES COMPACTION | | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS | |
| A 525+28.00 | A 526+48.00 | 120.00 | 37.50 | 2.00 | 27.78 | 54.71 | |
| | | | | | TOTAL: | 55.00 | |

| ITEM 402.377904 (TON) | | | | | | | |
|---|-------------|----------------|---------------|---------------|--------|--------|--|
| 37.5 F9 BASE COURSE HMA, 70 SERIES COMPACTION | | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS | |
| A 525+28.00 | A 526+48.00 | 120.00 | 38.16 | 7.00 | 98.93 | 197.39 | |
| | | | | | TOTAL: | 198.00 | |

| ITEM 407.0102 (GAL) | | | | | | | | |
|---------------------|------------------------------|----------------|---------------|--------------|----------------|--------|--------|--|
| | TACK COAT - DILUTED | | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | AREA (SY) | # OF LAYERS | RATE | GALS | |
| | NY RTE 93 - MILL AND OVERLAY | | | | | | | |
| A 524+28.00 | A 525+28.00 | 100.00 | 34.00 | 377.78 | 1.00 | 0.10 | 37.78 | |
| A 526+48.00 | A 527+48.00 | 100.00 | 34.00 | 377.78 | 1.00 | 0.10 | 37.78 | |
| | NY RTE 93 - | FULL DEF | TH RECO | NSTRUC1 | TION | | | |
| A 525+28.00 | A 526+48.00 | 120.00 | 38.16 | 508.80 | 4.00 | 0.06 | 122.11 | |
| | NY R | TE 93 WZ | TC STAGE | 1 T&L | | | | |
| A 521+50.00 | A 524+05.00 | 255.00 | 6.00 | 170.00 | 2.00 | 0.06 | 20.40 | |
| A 527+70.00 | A 529+25.00 | 155.00 | 6.00 | 103.33 | 2.00 | 0.06 | 12.40 | |
| | | | | | | TOTAL: | 230.00 | |

| ITEM 402.128904 (TON) | | | | | | | |
|--|-------------|--------------|----------------|---------------|---------------|--------|-------|
| 12.5 F9 T&L OR SHOULDER COURSE HMA, 80 SERIES COMPACTION | | | | | | | |
| FROM STATION | TO STATION | SIDE | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS |
| | 1 | NY RTE 93 WZ | TC STAGE | 1 | | | |
| A 521+50.00 | A 524+05.00 | RT | 255.00 | 6.00 | 4.50 | 21.25 | 41.28 |
| A 527+70.00 | A 529+25.00 | RT | 155.00 | 6.00 | 4.50 | 12.92 | 25.09 |
| | | | | | | TOTAL: | 67.00 |

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|--|--|--------------------------------|-----------------|-----------------|---|------------------------------|
| DESCRIPTION OF ALTERNATIONS | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | 1 D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | UTILITY QUALITY LEVEL D | | | C530038 | DDAWING NO MCT O OO |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 2-02 | DRAWING NO. MST 2-02 |
| | COUNTIES: NIAGARA AND ERIE REGION: | 05 | | | | SHEET NO. |
| TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING TH | EY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, E STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, A N "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION | RCHITECT, LANDSCAPE ARCHITECT. | OR LAND SURVEYO |)R [°] | Nso. | Department of Transportation |

AFFIX SEAL: ON:

FILE NAME = 581311_CPH_MST_2-03.dgr DATE/TIME = 14-MAY-2021 10:05 USER = pmorelock

| | ITEM 490 | .10 (SY |) | | | | |
|---|-------------|----------------|---------------|-----------|--|--|--|
| PRODUCTION COLD MILLING BITUMINOUS CONCRETE | | | | | | | |
| ROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | AREA (SY) | | | |
| A 524+28 00 | A 525+28 00 | 100.00 | 34 00 | 377 78 | | | |

100.00

34.00

TOTAL:

377.78

756.00

ITEM 552.2201 (LF)

A 527+48.00

SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED)

| PILE NO. | STATION | OFFSET | SIDE | HEIGHT (LF) | LENGTH (LF) |
|----------|-------------|--------|------|----------------|----------------|
| 2-1 | A 525+67.74 | 0.60 | RT | 6.00 | 31 |
| 2-2 | A 525+77.74 | 0.60 | RT | 10.70 | 31 |
| 2-3 | A 525+87.74 | 0.60 | RT | 10.70 | 31 |
| 2-4 | A 525+97.74 | 0.60 | RT | 10.70 | 31 |
| 2-5 | A 526+07.74 | 0.60 | RT | 6.00 | 31 |
| | | _ | | TOTAL: | 155 |

ITEM 552.2001 (LF)

A 526+48.00

HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED)

| PILE NO. | STATION | OFFSET | SIDE | DEPTH (LF) |
|----------|-------------|--------|--------|---------------|
| 2-1 | A 525+67.74 | 0.60 | RT | 31.00 |
| 2-2 | A 525+77.74 | 0.60 | RT | 31.00 |
| 2-3 | A 525+87.74 | 0.60 | RT | 31.00 |
| 2-4 | A 525+97.74 | 0.60 | RT | 31.00 |
| 2-5 | A 526+07.74 | 0.60 | RT | 31.00 |
| | | | TOTAL: | 155.00 |

ALTERED BY: ON:

ITEM 554.3001 (SF)

GEOSYNTHETIC REINFORCED SOIL SYSTEM **WALL - WELDED WIRE FORM**

| PLAN SHEET | FROM STATION | TO STATION | LENGTH (FT) | HEIGHT (FT) | AREA (SF) |
|---------------|--------------|------------|----------------|----------------|--------------|
| | 525+77.74 | 525+97.74 | 20 | 11 | 220.00 |
| | | | | TOTAL: | 220.00 |

ITEM 552.230201 (SF)

UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED)

| PLAN SHEET | FROM STATION | TO STATION | OFFSET | SIDE | HEIGHT (LF) | LENGTH (LF) | AREA (SF) |
|---------------|--------------|-------------|--------|------|----------------|----------------|--------------|
| | A 525+58.74 | A 525+67.74 | 0.60 | RT | 6.50 | 9.00 | 29.25 |
| | A 525+67.74 | A 526+07.74 | 0.60 | RT | 11.00 | 40.00 | 440.00 |
| | A 526+07.74 | A 526+16.74 | 0.60 | RT | 6.50 | 9.00 | 29.25 |
| | | | | | | TOTAL: | 498.50 |

ITEM 595.50000018 (SF)

| SHEET-APPLIED WATERPROOFING MEMBRANE | | | | | | | |
|--------------------------------------|------------|----------------|------------------------------|----------------|------------------------|-------------------------|--------------|
| FROM STATION | TO STATION | LENGTH (FT) | ASSUMED SEGMENT LENGTH | # OF JOINTS | JOINT WIDTH (FT) | JOINT LENGTH (FT) | AREA (SF) |
| C530038 CULVERT | | | | | | | |
| A 1+69.65 | A 2+25.65 | 56.00 | 7.00 | 7 | 2.0 | 34.5 | 482.99 |
| C530038 HEADWALLS | | | | | | | |
| A 1+71.15 | | 1.50 | | | 17.67 | | 26.50 |
| A 2+24.15 | | 1.50 | | | 17.67 | | 26.50 |
| | | | | | | TOTAL: | 536.00 |

ITEM 418.7603 (LF)

ASPHALT PAVEMENT JOINT ADHESIVE

| ASI HALI I AVENILINI SONNI ADILESIVE | | | | | | | | | | | |
|--------------------------------------|---------------|----------------|------------------------|--------------|---------------------------|----------------------------|-----------------|--------------------------------|-----------------|----------------|---------------|
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) (Avg) | AREA (SY) | CURB LINE LEFT (FT) | CURB LINE RIGHT (FT) | No. OF LANES | LONGITUDINAL JOINTS (FT) | C. L. JOINTS | BUTT JOINTS | TOTAL (LF) |
| A 524+28.00 | A 527+48.00 | 320.00 | 34 | 1,209 | 320.00 | 320.00 | 2 | 320 | 1 | 2 | 1,348 |
| | | | | | | | | | | TOTAL: | 1,348.00 |

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

ARGE CULVERT REPLACEMENTS AND REHABILITATIONS TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA, ORCHARD PARK AND EDEN

PIN 5813.11 BRIDGES UTILITY QUALITY LEVEL D

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED C530038 MISCELLANEOUS TABLE 2-03

CONTRACT NUMBER DRAWING NO. MST 2-03

COUNTIES: NIAGARA AND ERIE IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



SHEET NO.

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

CORRUGATED STEEL PIPE (2-2/3"X1/2" CORRUGATIONS) 48 INCH, 16 GAUGE

| PLAN SHEET | DRAINAGE NO. | STATION | LENGTH (FT) |
|---------------|--------------|-----------|----------------|
| CUL 2-10 | | 525+83.00 | 15.00 |
| CUL 2-10 | | 525+92.00 | 15.00 |
| | | TOTAL: | 30.00 |

| ITEM 606.71 (LF) | | | | | | | | |
|------------------|--|-------------|------|----------|----------------|--|--|--|
| REMO | REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING | | | | | | | |
| PLAN SHEET | FROM STATION | TO STATION | SIDE | COMMENTS | LENGTH (FT) | | | |
| | A 525+44.04 | A 526+19.04 | RT | | 75.00 | | | |
| | A 525+56.54 | A 526+19.04 | LT | | 62.50 | | | |
| TOTAL: | | | | | | | | |

ITEM 606.7910 (EA)

REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER

| | BARRIER | | | | | | |
|---|-------------|------|----------|-----------|--|--|--|
| | STATION | SIDE | COMMENTS | QTY. (EA) | | | |
| | A 525+44.04 | RT | | 1 | | | |
| ĺ | A 525+56.54 | LT | | 1 | | | |
| ĺ | A 526+19.04 | RT | | 1 | | | |
| | A 526+19.04 | LT | | 1 | | | |
| ı | | | TOTAL: | 4 | | | |

| AFFIX SEAL: ON: | ALTERED BY: ON: | |
|--------------------|--------------------|--|
| | | |
| | | |
| | | |

ITEM 603.63160615 (LF)

PRECAST CONCRETE BOX CULVERT, 16 FOOT SPAN, 6 FOOT RISE FILL HT > 24"

| PLAN SHEET | DRAINAGE NO. | FROM STATION | TO STATION | LENGTH (FT) |
|---------------|--------------|--------------|------------|----------------|
| | | 1+70.35 | 2+26.35 | 56.00 |
| | | | TOTAL: | 56.00 |

ITEM 606.22 (EA)

ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER

| STATION | SIDE | COMMENTS | QTY. (EA) |
|-------------|------|----------|-----------|
| A 524+96.35 | RT | | 1 |
| A 526+88.85 | RT | | 1 |
| A 525+07.76 | LT | | 1 |
| A 526+65.26 | LT | | 1 |
| | | TOTAL: | 4 |

ITEM 606.18 (LF)

WEAK POST, CORRUGATED BEAM GUIDE RAIL

| FROM STATION | TO STATION | SIDE | COMMENTS | LENGTH (FT) |
|--------------|-------------|------|----------|----------------|
| A 525+19.00 | A 527+11.50 | RT | | 192.50 |
| A 525+33.00 | A 526+90.50 | LT | | 157.50 |
| | | | TOTAL: | 350.00 |

ITEM 603.67000001 (SY)

PRECAST CONCRETE WINGWALL UNITS FOR BOX CULVERTS

| PRECAST CONCRETE WINGWALL UNITS FOR BOX CULVERTS | | | | | | |
|--|--------------|------------|----------------|----------------|--------------|--|
| LOCATION | FROM STATION | TO STATION | LENGTH (LF) | HEIGHT (LF) | AREA (SY) | |
| Wingwall #1 | | | 2.67 | 11.67 | 4.00 | |
| Wingwall #2 | | | 2.67 | 11.67 | 4.00 | |
| Wingwall #3 | | | 2.67 | 11.67 | 4.00 | |
| Wingwall #4 | | | 2.67 | 11.67 | 4.00 | |
| | | | | TOTAL: | 16.00 | |

| AS-BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOT | TED | CONTRACT NUMBER |
|--|--|-------------------------|---------|----------|---|-----|----------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | UTILITY QUALITY LEVEL D | | | C530038 | - | DDIWING NO MOT O OA |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 2-04 | | DRAWING NO. MST 2-04 |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | | | SHEET NO. |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. Department of Transportation | | | | | | | |

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AFFIX SEAL: ON:

| ITEM 610.1402 (CY) | | | | | |
|--------------------|--------------|------|--|--|--|
| TOPSOIL - ROADSIDE | | | | | |
| C530 | 038 NY RT 93 | | | | |
| OTATION! | TOP | SOIL | | | |
| STATION | (SF) | (CY) | | | |
| A 525+28.00 | 6.16 | N/A | | | |
| A 525+50.00 | 8.07 | 5.80 | | | |
| A 525+74.00 | 9.90 | 7.99 | | | |
| A 525+79.00 | 0.00 | 0.92 | | | |
| A 525+87.70 | 0.00 | 0.00 | | | |
| A 525+96.50 | 0.00 | 0.00 | | | |
| A 526+00.00 | 3.69 | 0.24 | | | |
| A 526+25.00 | 10.84 | 6.73 | | | |
| A 526+47.50 | 7.34 | 7.58 | | | |
| TOTALS: | 46.0 | 30.0 | | | |

| ITEM 610.1601 (SY) TURF ESTABLISHMENT - ROADSIDE | | | | | |
|--|---------------|-------|--|--|--|
| C530 | 0038 NY RT 93 | | | | |
| CTATION! | TUF | RF | | | |
| STATION | (LF) | (SY) | | | |
| A 525+28.00 | 18.47 | N/A | | | |
| A 525+50.00 | 24.24 | 52.20 | | | |
| A 525+74.00 | 29.71 | 71.93 | | | |
| A 525+79.00 | 0.00 | 8.25 | | | |
| A 525+87.70 | 0.00 | 0.00 | | | |
| A 525+96.50 | 0.00 | 0.00 | | | |
| A 526+00.00 | 11.08 | 2.15 | | | |
| A 526+25.00 | 32.55 | 60.60 | | | |
| A 526+47.50 | 22.01 | 68.20 | | | |
| TOTALS: | 138.1 | 264.0 | | | |

ALTERED BY: ON:

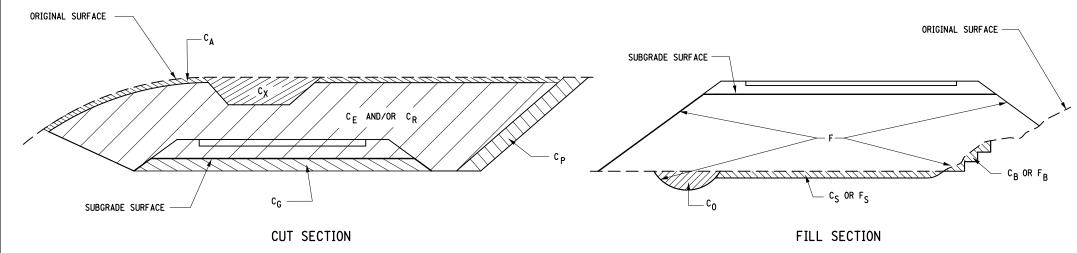
| ITEM 610.0501 (LB) | | | | | | | |
|--|--------------------------|------|--|--|--|--|--|
| FERTILIZER | | | | | | | |
| LOCATION AREA (SF) FERTILIZER TYPE A* (1LB NITROGEN / 1000 SF) | | | | | | | |
| C530038 NY RT 93 | 2376.00 | 2.38 | | | | | |
| 5 | 2.38 | | | | | | |
| NUMBER | 1 | | | | | | |
| | TOTAL LBS OF FERTILIZER: | 50 | | | | | |

| | ITE | M 619.0901 (LI | F) | | |
|--------------|----------------|--------------------------|----------------|--------|--------------------|
| TEMPORA | RY PAVEME | NT MARKINGS PAINT | S, STRII | PES, T | RAFFIC |
| FROM STATION | TO STATION | OFFSET/SIDE | LENGTH (FT) | | PAID LENGTH (LF |
| | NY F | RTE 93 WZTC STAGE | 1 | | • |
| | 4" White S | olid Edge Line = (4"/4" | ') = 1.00 | | |
| A 517+25.00 | A 528+80.00 | 11 FT RT | 1,155.00 | 1.00 | 1,155.0 |
| A 518+00.00 | A 531+00.00 | 11 FT LT | 1,300.00 | 1.00 | 1,300.0 |
| • | 4" Yellow Full | Barrier = (4"/4") = 1.00 |) * 2 = 2.00 | | |
| A 517+25.00 | A 527+70.00 | CL | 1,045.00 | 2.00 | 2,090.0 |
| A 529+90.00 | A 532+25.00 | CL | 235.00 | 2.00 | 470.0 |
| • | 4" Yellow S | Solid Edge Line = (4"/4" | ") = 1.00 | • | • |
| A 527+70.00 | A 529+90.00 | LT | 220.00 | 1.00 | 220.0 |
| A 527+70.00 | A 529+90.00 | RT | 220.00 | 1.00 | 220.0 |
| | NY F | RTE 93 WZTC STAGE | 2 | | |
| | 4" White S | olid Edge Line = (4"/4" | ') = 1.00 | | |
| A 522+29.00 | A 529+66.00 | LT | 737.00 | 1.00 | 737.0 |
| A 521+48.00 | A 531+42.00 | RT | 994.00 | 1.00 | 994.0 |
| | 4" Yellow Full | Barrier = (4"/4") = 1.00 |) * 2 = 2.00 | | |
| A 516+49.00 | A 521+49.00 | CL | 500.00 | 2.00 | 1,000.0 |
| A 530+46.00 | A 532+26.00 | CL | 180.00 | 2.00 | 360.0 |
| | 18" S | top Bar = (18"/4") = 4. | 50 | | |
| A 521+ | -48.00 | RT | 12.00 | 4.50 | 54.0 |
| A 530+ | -46.00 | LT | 11.00 | 4.50 | 49.5 |
| | NY F | RTE 93 WZTC STAGE | 3 | | |
| | 4" White S | olid Edge Line = (4"/4" | ') = 1.00 | | |
| A 520+53.00 | A 530+46.00 | LT | 993.00 | 1.00 | 993.0 |
| A 522+29.00 | A 529+29.00 | RT | 700.00 | 1.00 | 700.C |
| | | | 1 | TOTAL: | 10,34 |

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|--|--|-------------------------|---------|----------|---|----------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | d D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTILITY QUALITY LEVEL D | | | C530038 | |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 2-05 | DRAWING NO. MST 2-05 |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | | SHEET NO. |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. Department of Transportation | | | | | | |

| SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY) | | | | | | | |
|--|----------------|----------------|----------------|-------------------------|----------------|--|--|
| SOURCE | | EXCAVATION | ١ | ITEM 203 . 02 | ITEM 203.03 | | |
| Source | T _E | c _R | Τ _U | c _T | F _T | | |
| C530038 CULVERT | | | | | 205.1 | | |
| C530038 LT WINGWALL | | | | | 102.9 | | |
| C530038 RT WINGWALL | | | | | 112.0 | | |
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| TOTALS | | | | | 420.0 | | |

| SUMMARY OF | TRENCH AND (ITEM 206.02 | CULVERT EXC 01 ONLY) | CAVATION |
|---------------------|-------------------------|-------------------------|----------|
| SOURCE | EXCA | /ATION | ITEM |
| | ROCK | NON-ROCK | 206.0201 |
| C530038 NY RTE 93 | | | 241.3 |
| C530038 CULVERT | | | 1356.1 |
| C530038 LT WINGWALL | | | 113.0 |
| C530038 RT WINGWALL | | | 119.9 |
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| TOTALS | | | 1830.0 |



DEFINITIONS:

 ${\tt C_B}$ - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).

 $\mathbf{C}_{\mathbf{G}}$ - EXCAVATION FOR SUBGRADE IMPROVEMENT.

 C_{P} - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.

CE - PORTION OF CUT ASSUMED TO BE EARTH SUITABLE FOR EMBANKMENT CONSTRUCTION, EXCLUDING CG AND CP.

 $T_E - (C_B + C_G + C_P + C_E)$ Total Earth excavation assumed suitable for embankment construction.

 $\boldsymbol{c}_{\boldsymbol{A}}$ - excavation of topsoil (unsuitable material) in cut.

 ${\tt C}_{\tt S}$ - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.

 c_X - excavation of unsuitable material in cut: swamp or dump

 ${\tt C_0}$ - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP

 T_U - $(C_A$ + C_S + C_X + C_0) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.

 \boldsymbol{c}_{R} - Portion of cut assumed to be rock, including \boldsymbol{c}_{G} if applicable.

 $C_T - (T_E + T_U + C_R)$ TOTAL EXCAVATION.

DEFINITIONS:

 ${\sf F}_{\sf R}$ - FILL REQUIRED TO REPLACE BENCHES.

 $\boldsymbol{F_{S}}$ - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.

F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.

 F_T - $(F_B + F_S + F)$ TOTAL FILL REQUIRED.

 $\rm T_A$ - (T_E \times F_E + C $_{\rm R}\times$ F_R) THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.

 ${\sf F_E}$ - Shrinkage factor for Earth

 $\mathbf{F}_{\mathbf{R}}$ - SWELL FACTOR FOR ROCK

NOTES:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.

203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL

203.03 EMBANKMENT IN PLACE

206.0201 TRENCH AND CULVERT EXCAVATION

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS C550004 | ALL DIMENSIONS IN yd³ UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|--|--|-------------------------|---------|---------------------|--|----------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | C530038 | EARTHWORK SUMMARY SHEET | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTTETT WORLT TEVEL D | | CA00252 C530138 | C530038 | DDAWING NO. FCC 0.04 |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | C530075 C530008 | | DRAWING NO. ESS 2-01 |
| | COUNTIES: NIAGARA AND ERIE REGION: | 05 | | C540063 | | SHEET NO. |

NEW YORK STATE OF OPPORTUNITY.

Department of Transportation

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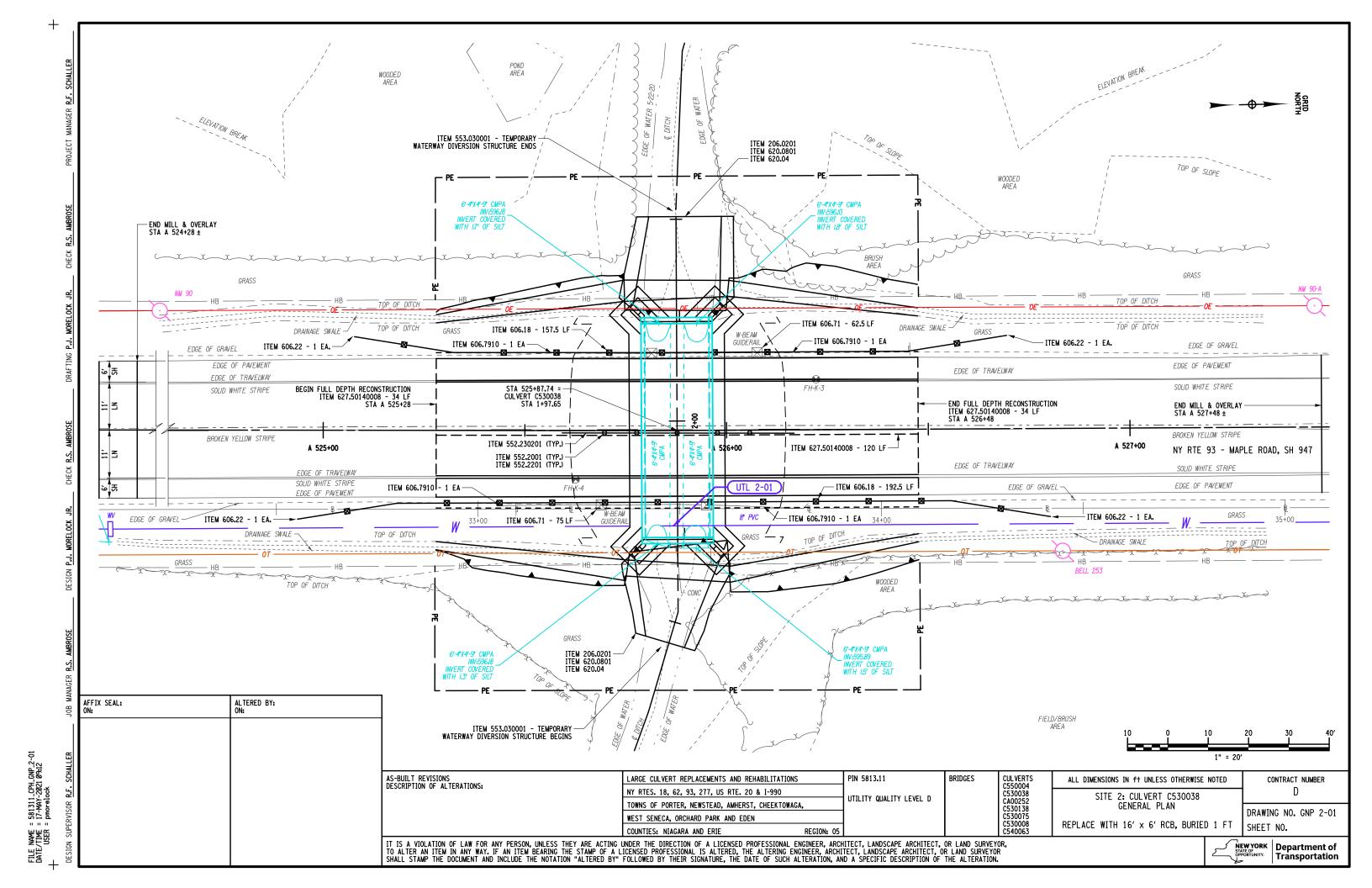
FILE NAME = 581311_CPH_ESS_2-02.dgn DATE/TIME = 14-MAY-2821 18:85 USER = pmorelock DESIGN SUPERVISOR <u>5.5.</u> VAIDYA

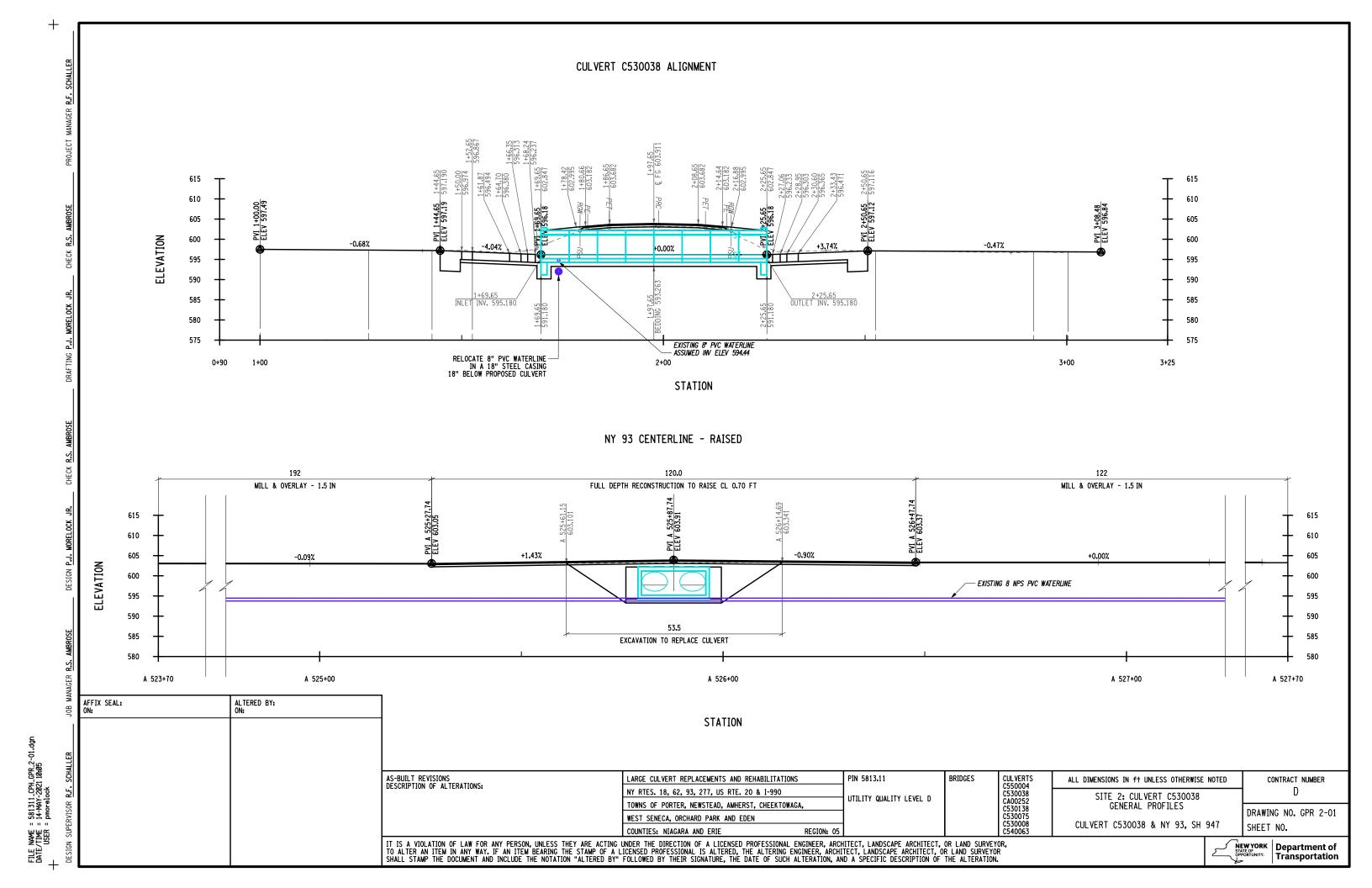
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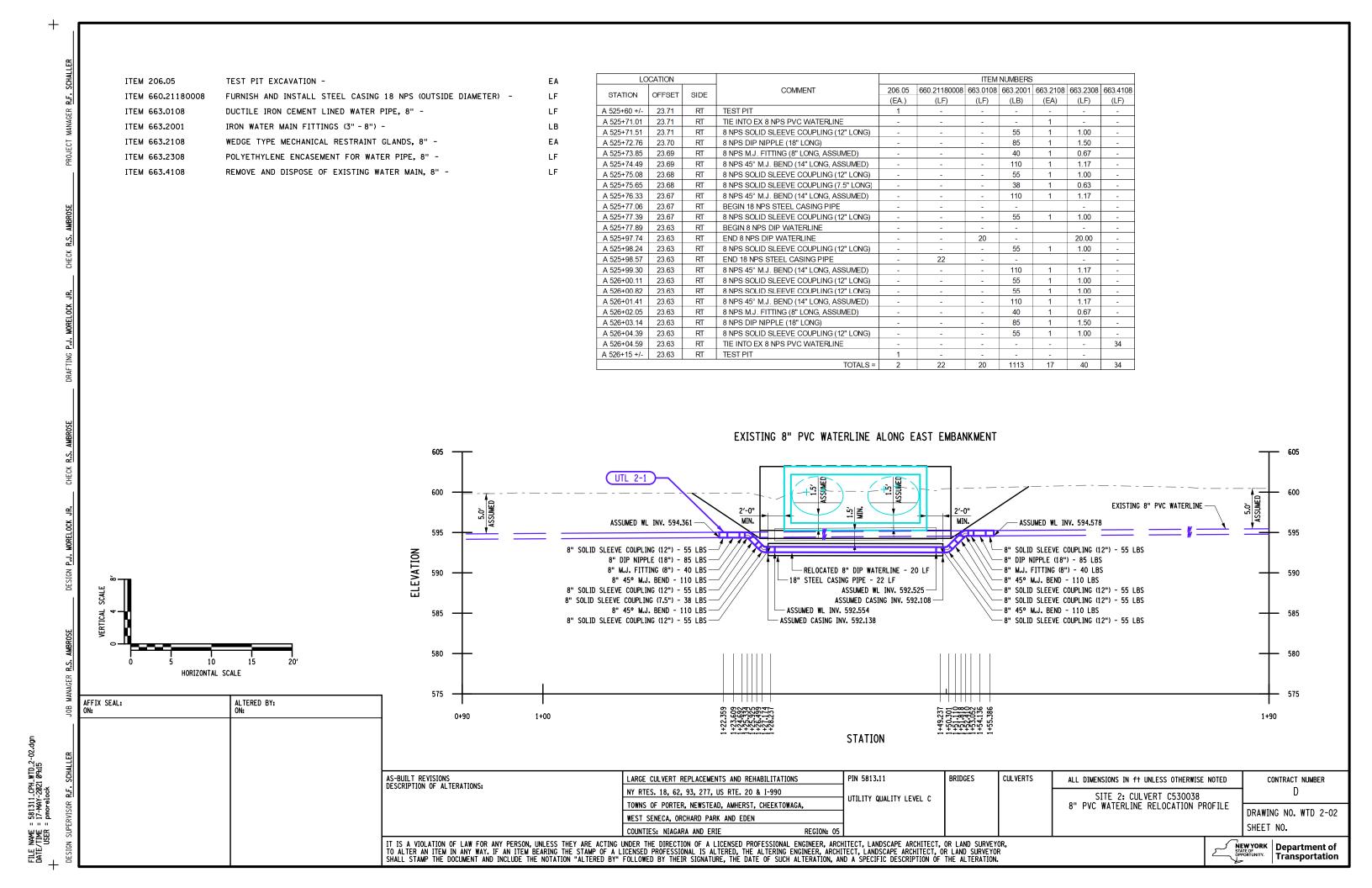
| SUBDIVISION | LOCATION | SUITABLE EXCAVATION | | | ROCK UNSUITABLE EXCAVATION | | | | TOTAL EXCAVATION | EMBANKMENT | | | | | | | |
|-------------|----------------------|---------------------|----------------|----------------|----------------------------|----------------|----------------|----|---------------------|----------------|----------------|----|----------------|----|----------------|---|----------------|
| NO. | (STATION TO STATION) | СВ | c _G | C _P | c _E | Τ _E | c _R | CA | c _s | c _X | c _o | TU | c _T | FB | F _S | F | F _T |
| | C530038 NY RTE 93 | | | | 189.4 | | | | 51.9 | | | | 241.3 | | | | |
| | C530038 CULVERT | | | | 700.8 | | | | | 655.3 | | | 1356.1 | | | | 205.01 |
| | C530038 LT WINGWALL | | | | 113.0 | | | | | | | | 113.0 | | | | 102.9 |
| | C530038 RT WINGWALL | | | | 119.9 | | | | | | | | 119.9 | | | | 112.0 |
| | | | | | | | | | | | | | | | | | |
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| | TOTALS | | | | | | | | | | | | 1830.0 | | | | 420.0 |

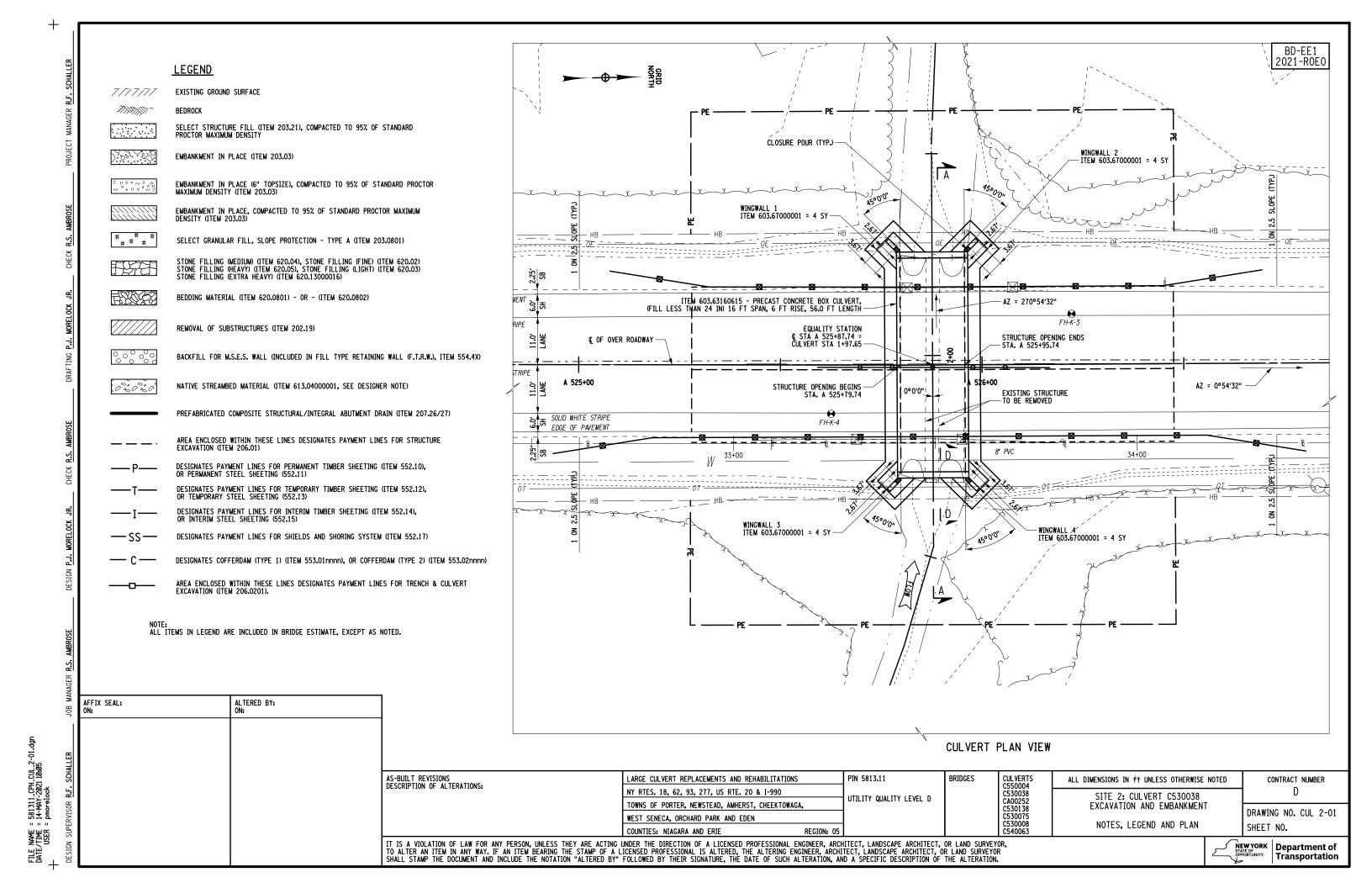
FOR DEFINITIONS AND NOTES SEE DWG. ES-1

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CUL VERTS C550004 C530038 CA00252 C530138 | ALL DIMENSIONS IN yd3 UNLESS OTHERWISE NOTED | CONTRACT NUMBER | |
|--|--|-------------------------|---------|---|--|------------------------------|--|
| | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | EARTHWORK SUMMARY SHEET | 1 D | |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | - | | | C530038 | DRAWING NO. ESS 2-02 | |
| | WEST SENECA, ORCHARD PARK AND EDEN | 4 | | C530075 C530008 | | SHEET NO. | |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | i | | C540063 | | SHEET NO. | |
| | | | | | N ST | Department of Transportation | |









| GEOTECHNICAL WINGWALL DESIGN DATA | | | | | | | | | |
|---|--|---|---|--|--|--|--|--|--|
| FRICTION ANGLE OF SOIL RETAINED BY THE WALL (DEGREES) | FRICTION ANGLE OF FOUNDATION SOIL (DEGREES) | TOTAL SOIL UNIT WEIGHT (lb/ft³) | MAXIMUM SERVICE LIMIT STATE BEARING RESISTANCE (lb/ft²) | NOMINAL COEFFICIENT OF FRICTION FOR SLIDING | STRENGTH LIMIT STATE RESISTANCE FACTOR FOR SLIDING | STRENGTH LIMIT STATE RESISTANCE FACTOR FOR BEARING | | | |
| 34 | 30 | 120 | 1.5 | 0.46 | 0.9 | 0.45 | | | |

- 1. FOR THE SLIDING AND ECCENTRICITY ANALYSES, ASSUME A GROUND WATER ELEVATION OF 598 FEET.
- 2. FOR THE BEARING ANALYSES, ASSUME A GROUNDWATER ELEVATION OF 595 FEET.
- 3. USE SUBMERGED UNIT WEIGHTS BELOW THE GROUNDWATER ELEVATIONS PROVIDED.
- 4. ASSUME A SURCHARGE LOAD OF 250 POUNDS PER SQUARE FOOT.

| WINGWALL DATA | | | | | | | | | |
|---------------|-------------|-------------|-------------|---------------|--|--|--|--|--|
| LOCATION | ELEVATION A | ELEVATION B | ELEVATION C | DIMENSION "X" | | | | | |
| WINGWALL 1 | 602.847 | 598.180 | 591.180 | 1.0 | | | | | |
| WINGWALL 2 | 602.847 | 598.180 | 591.180 | 1.0 | | | | | |
| WINGWALL 3 | 602.847 | 598.180 | 591.180 | 1.0 | | | | | |
| WINGWALL 4 | 602.847 | 598.180 | 591.180 | 1.0 | | | | | |

DIMENSION "X" MEASURED ALONG FRONT FACE OF WINGWALL.

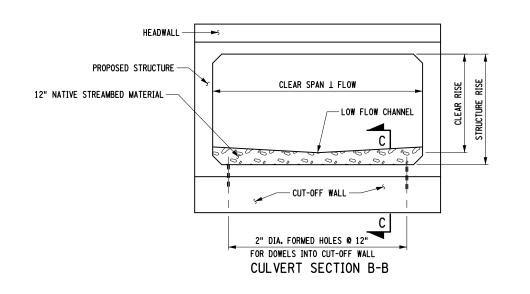
| BOX CULVERT DE | SIGN DATA |
|---------------------------------------|--------------------------------|
| CLEAR SPAN, ft. | 16.0 |
| STRUCTURE RISE, ft. | 6.0 |
| * MIN. FILL HEIGHT, ft. | 0.08 |
| * MAX. FILL HEIGHT, ft. | 1.7 |
| SKEW ANGLE 1 TO © OF ROADWAY, DEG. | 0.0 % |
| LIVE LOAD | HL93 AND NYS PERMIT VEHICLE |
| RAILING / BARRIER TEST LEVEL | TL-3 |

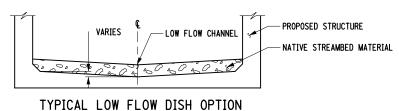
*BASED ON ASSUMED TOP SLAB THICKNESS OF 1.083 FT FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS. OESIGNER TO FILL IN VALUE) MEASURED FROM THE TOP OF THE TOP SLAB TO THE TOP OF THE PAVEMENT.

NOTES

- 1. THE LENGTH OF EACH CULVERT SEGMENT SHALL BE DETERMINED BY THE CONTRACTOR. IF STAGED CONSTRUCTION IS EMPLOYED, THE PRECAST BOX CULVERT SEGMENT LENGTH MUST BE COMPATIBLE WITH STANDING PROLUTE MENTS.
- 2. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".

| Ϋ́ | | | _ |
|--------------------------|--------------------|--------------------|----------------|
| JOB MANA | AFFIX SEAL: ON: | ALTERED BY: ON: | |
| SUPERVISOR R.F. SCHALLER | | | AS DE |
| ESIGN | | | IT TO SH |





BD-CB1
2021-R0E0

2" DIA. FORMED HOLE

2" KEYWAYS
1/2" X 6"

*5 EPOXY
COATED BARS
2 12"

CUT-OFF WALL

1'-6" MIN.

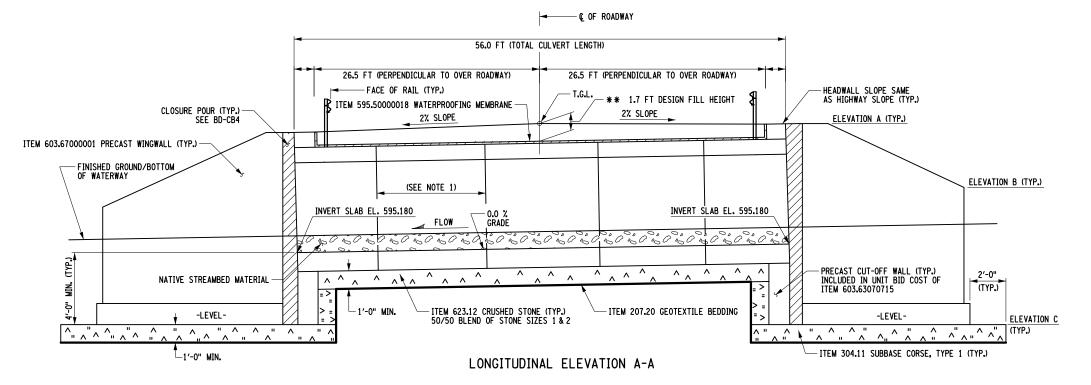
NOTE "A":
DOWEL BARS USED TO ATTACH THE CUT-OFF
WALL TO THE BOX CULVERT SHALL BE DRILLED

SECTION C-C

NOTE "A":

DOWEL BARS USED TO ATTACH THE CUT-OFF
WALL TO THE BOX CULVERT SHALL BE DRILLED
AND GROUTED PER THE REQUIREMENTS OF STANDARD
SPECIFICATION SECTION 586 EXCEPT THE GROUT SHALL
MEET THE REQUIREMENTS OF \$701-06 (PULLOUT TEST
NOT REQUIRED). THE KEYWAY SHALL BE GROUTED WITH
THE SAME MATERIAL AS THE DOWEL HOLES. WHEN THE
GRADE OF THE BOX EXCEEDS 5%, THE TOP OF THE
CUT-OFF WALL SHOULD BE BEVELED TO MATCH THE
GRADE. PLACE A BEAD OF CAULK, CLOSED CELL FOAM
OR OTHER SUITABLE MATERIAL ON BOTH SIDES OF THE
KEYWAY TO CONTAIN THE GROUT.

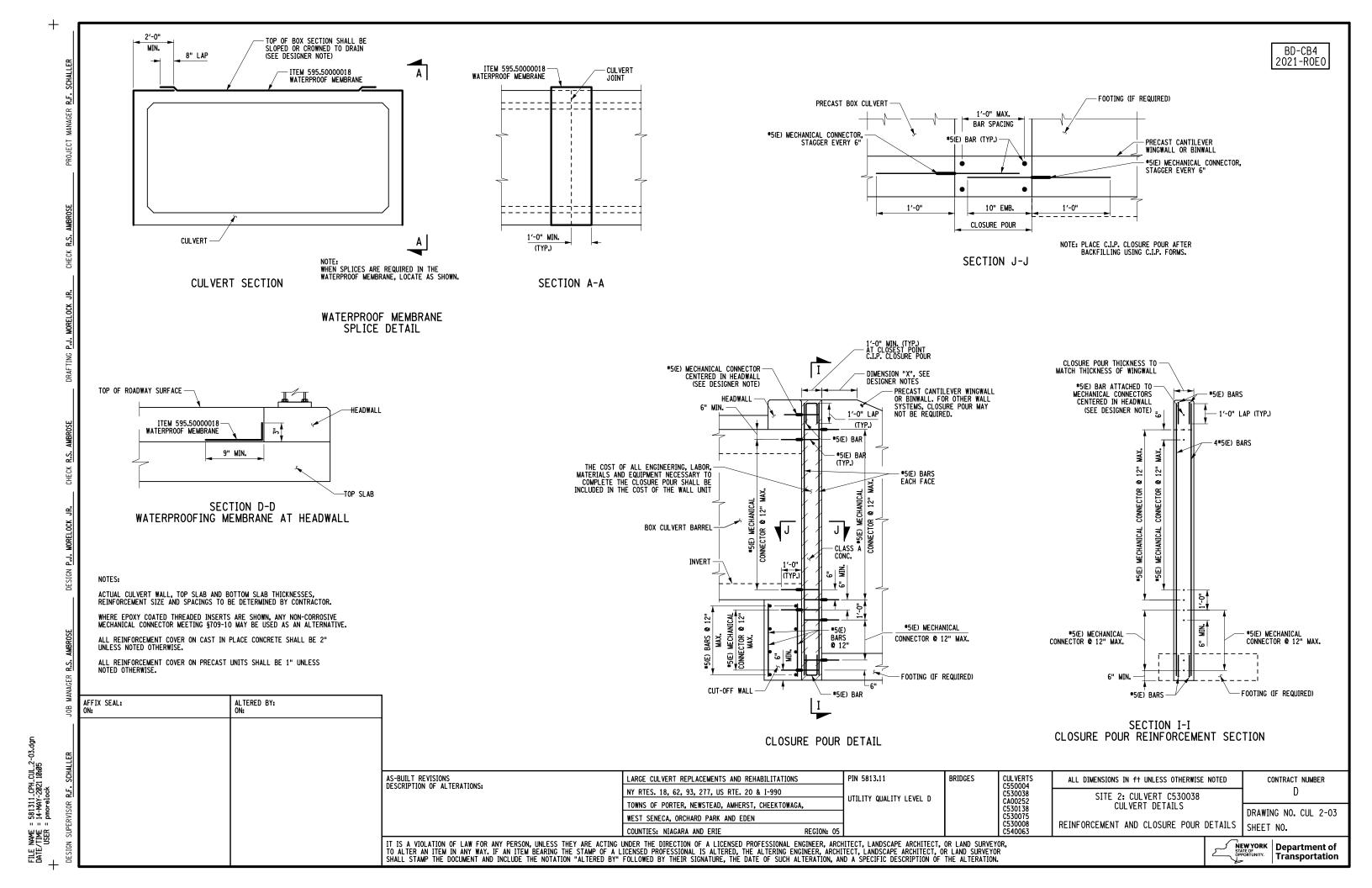
NOTE: REINFORCEMENT IN BOX CULVERT AND CUT OFF WALL NOT SHOWN FOR CLARITY.

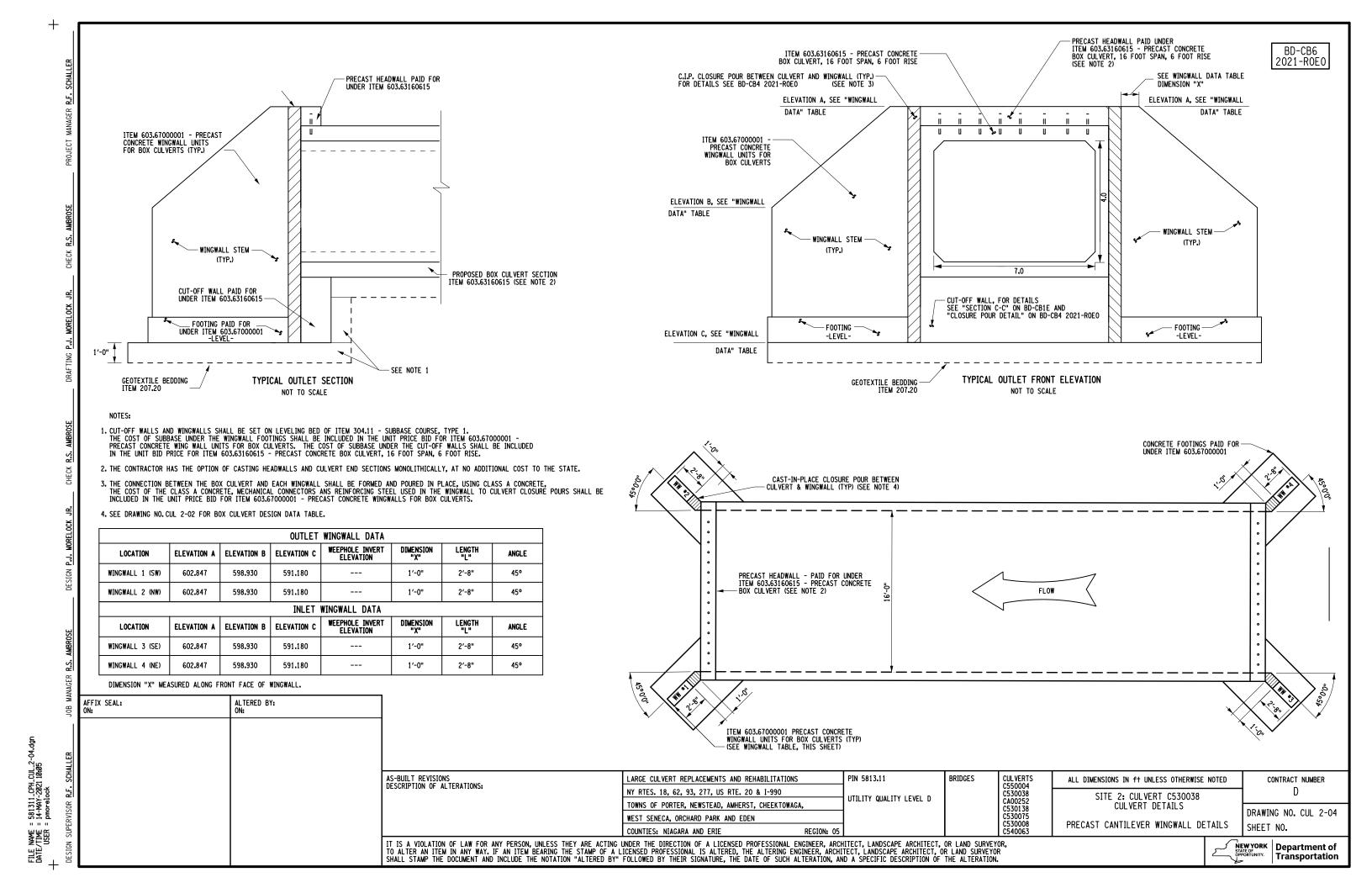


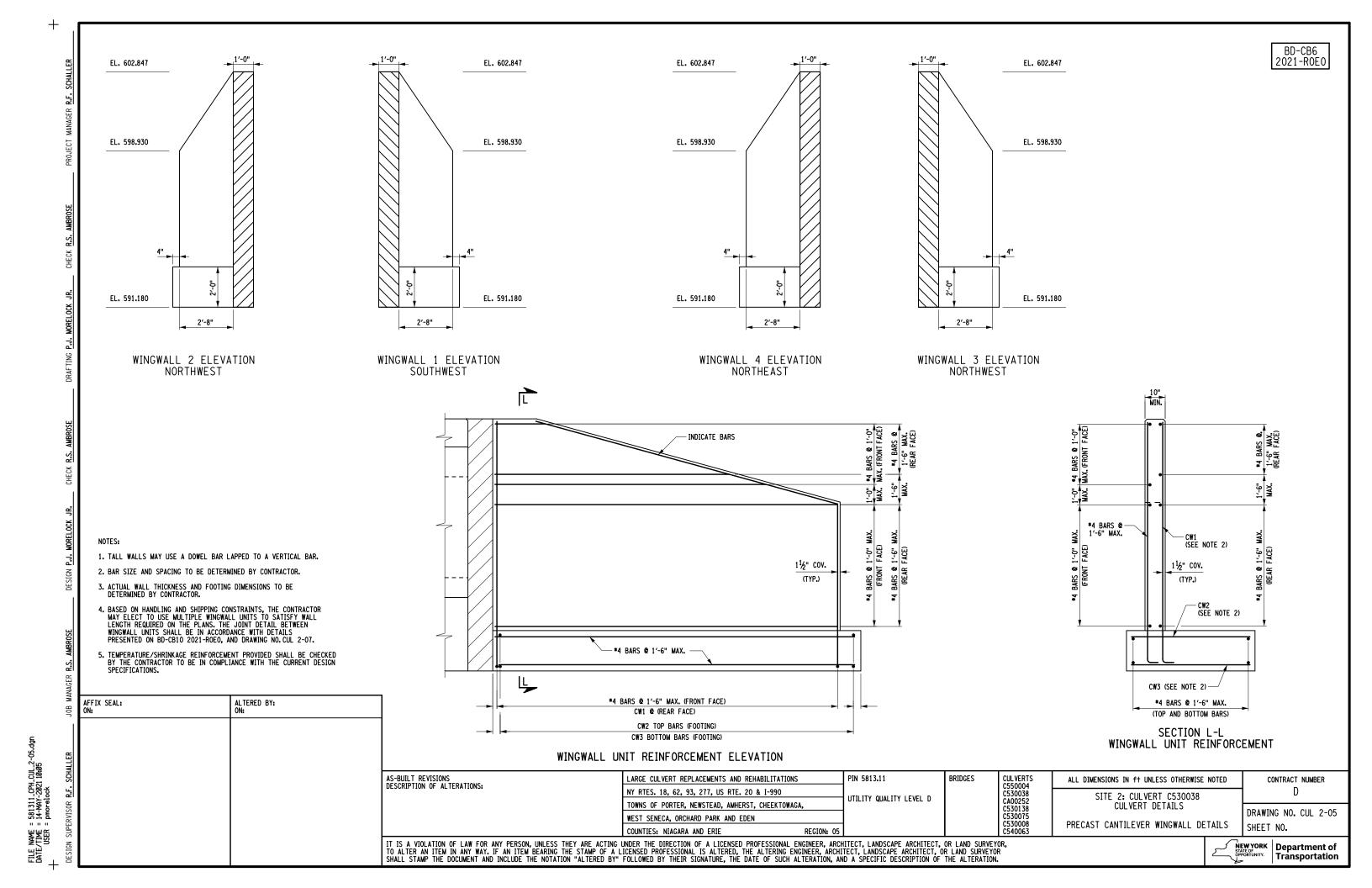
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: CUL VERTS C550004 ARGE CULVERT REPLACEMENTS AND REHABILITATIONS PIN 5813.11 ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER C530004 C530038 CA00252 C530138 C530075 C530008 D NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 SITE 2: CULVERT C530038 UTILITY QUALITY LEVEL D CULVERT DETAILS TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, DRAWING NO. CUL 2-02 WEST SENECA, ORCHARD PARK AND EDEN CULVERT ELEVATION SHEET NO. COUNTIES: NIAGARA AND ERIE

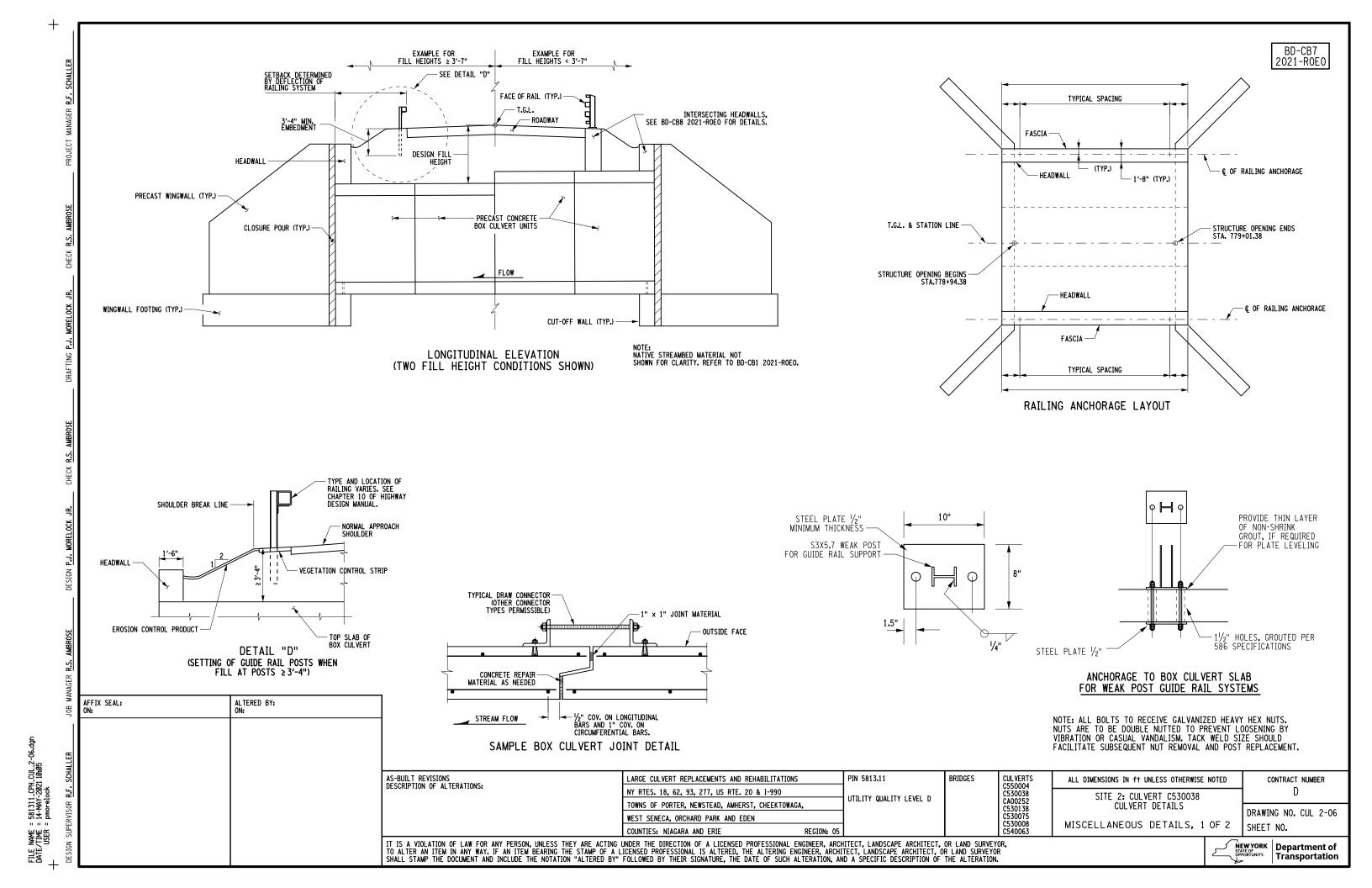
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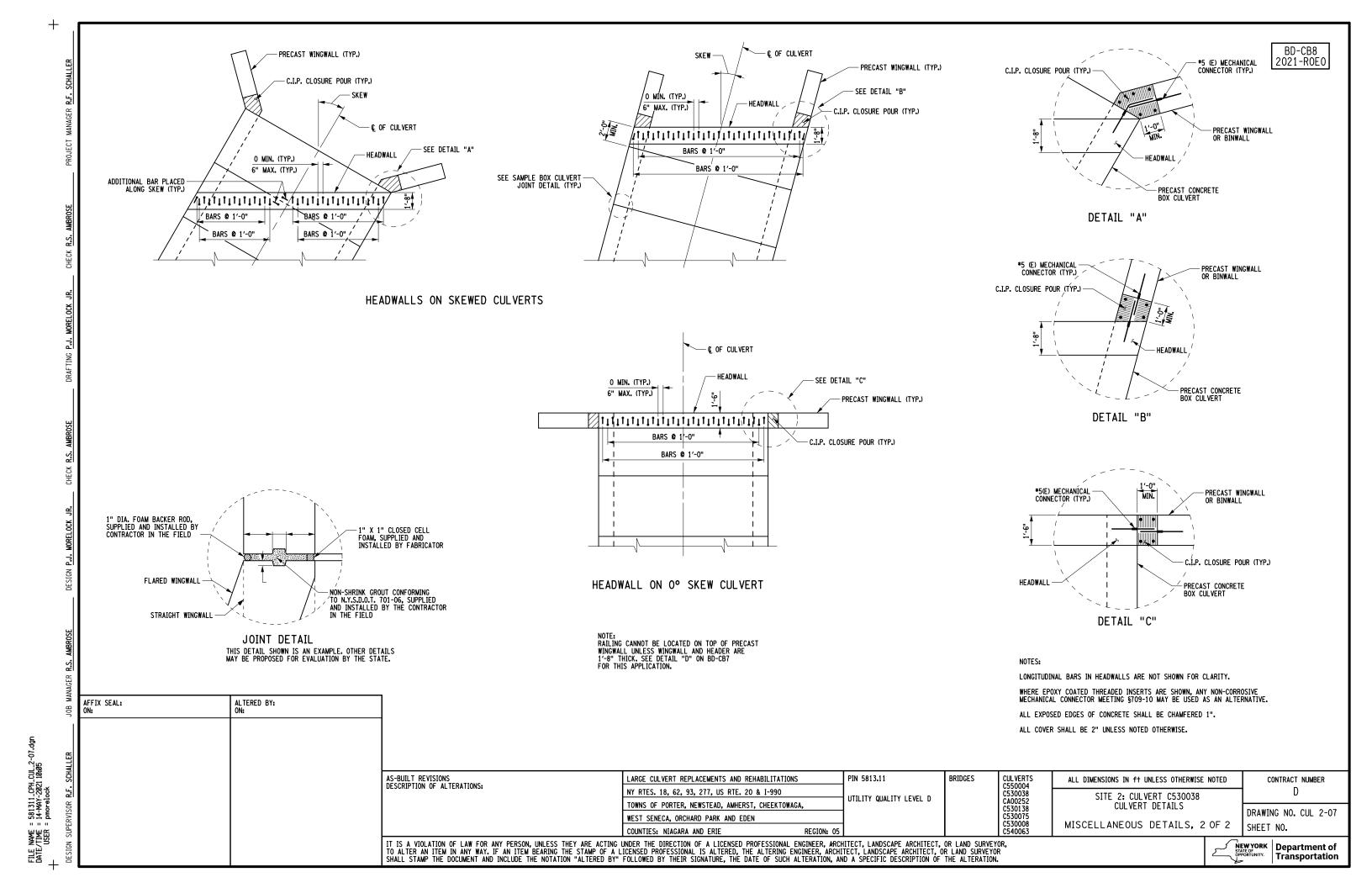
NEW YORK STATE OF OPPORTUNITY. Department of Transportation

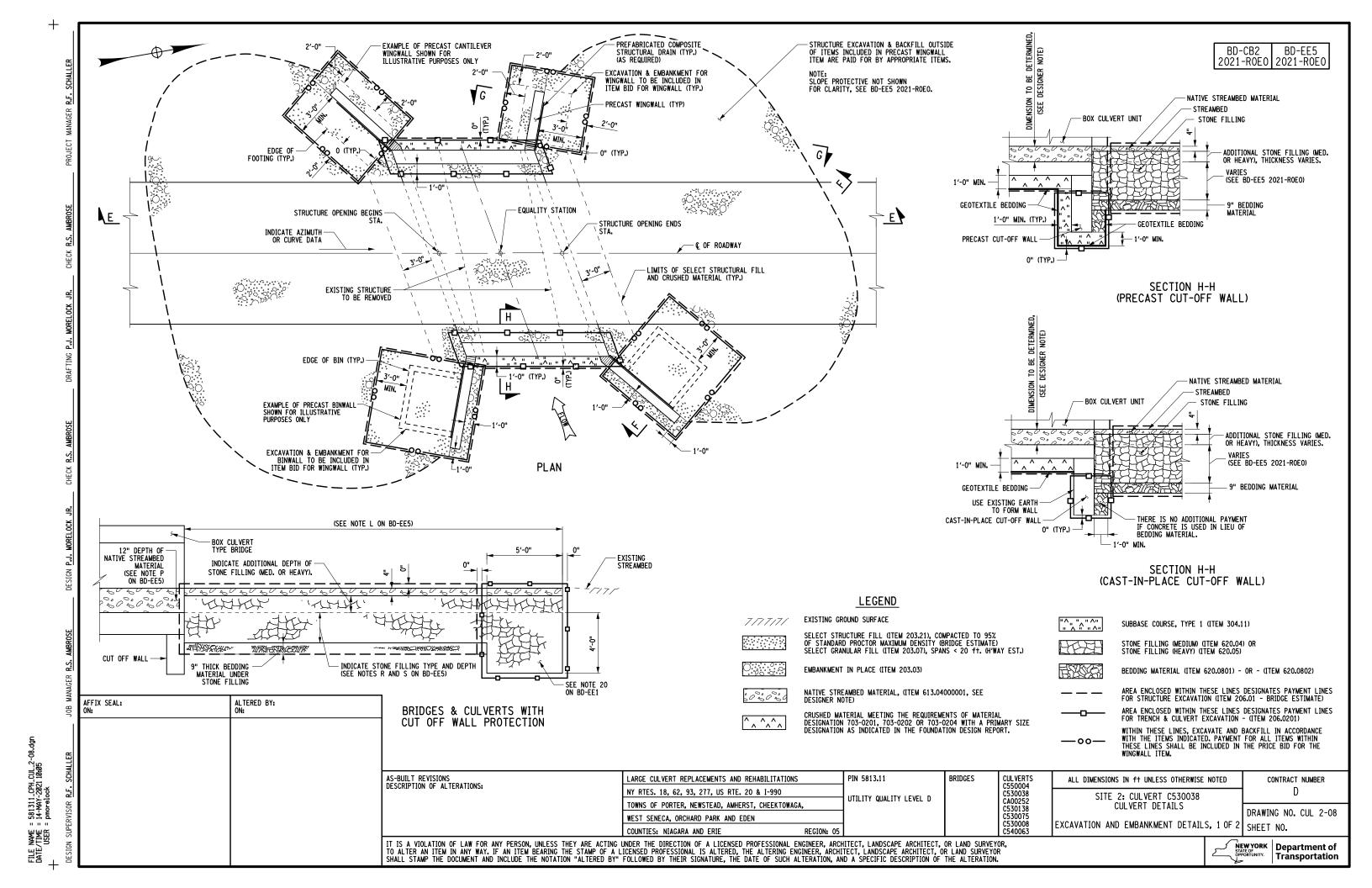


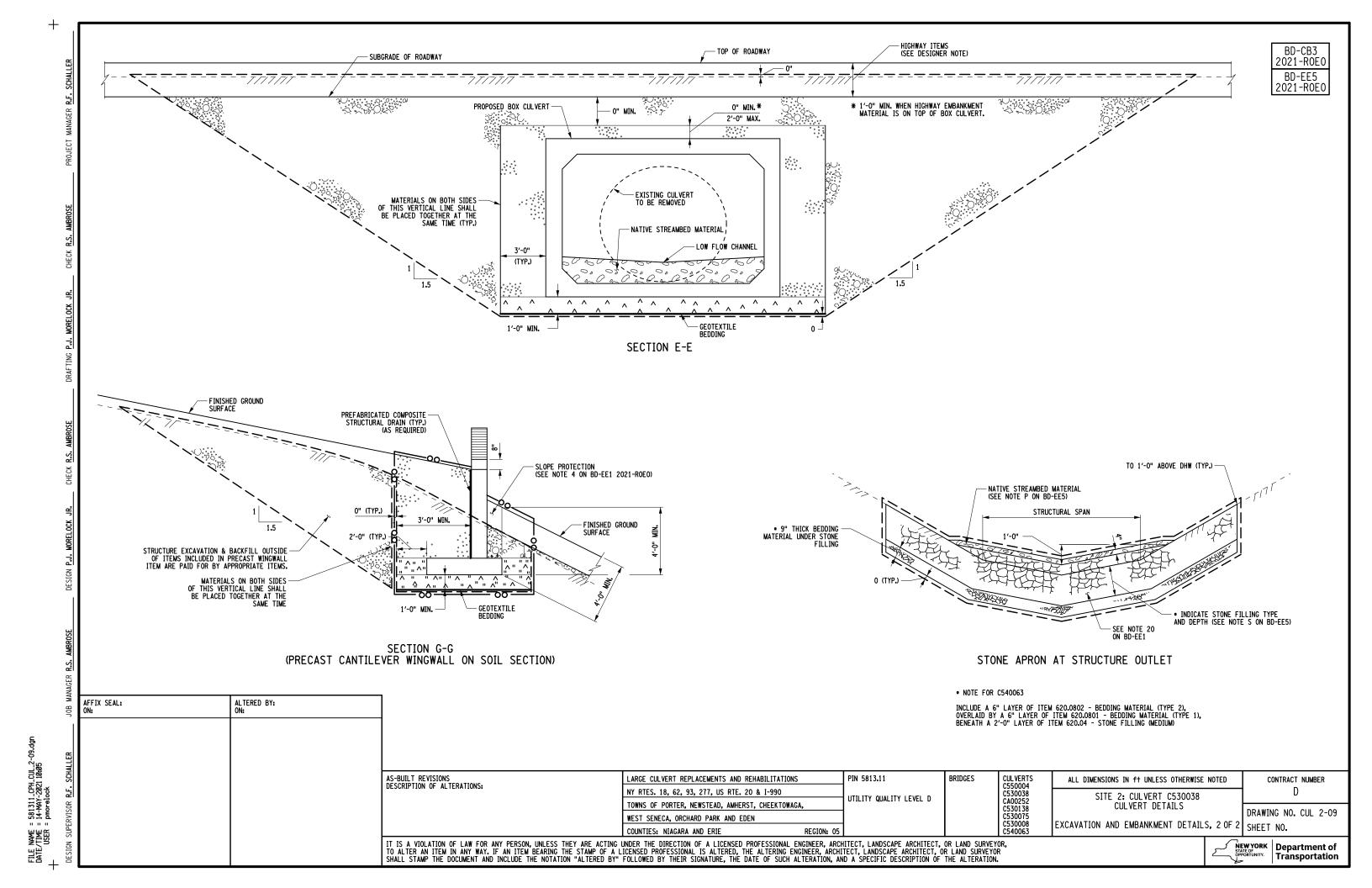


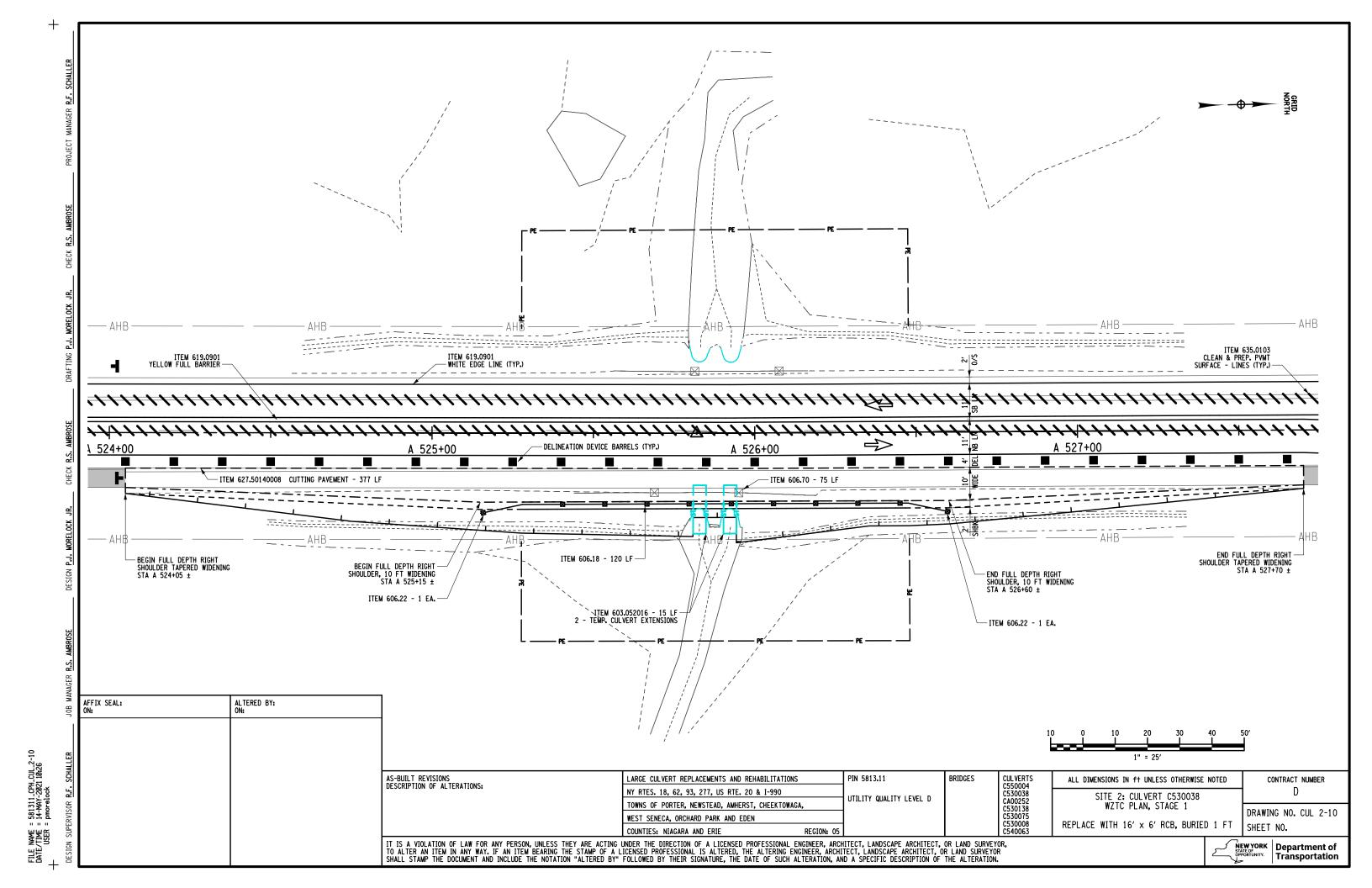


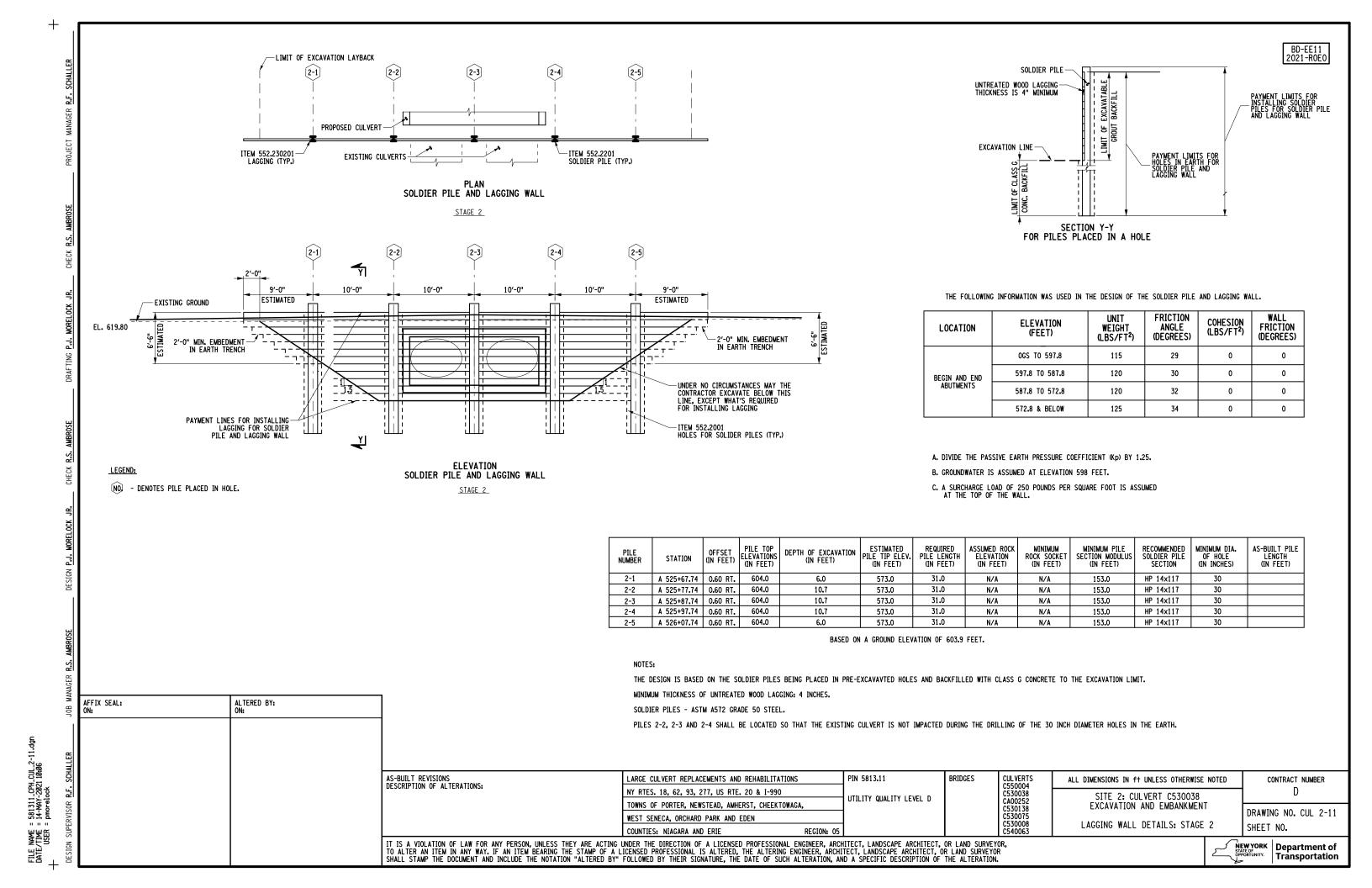


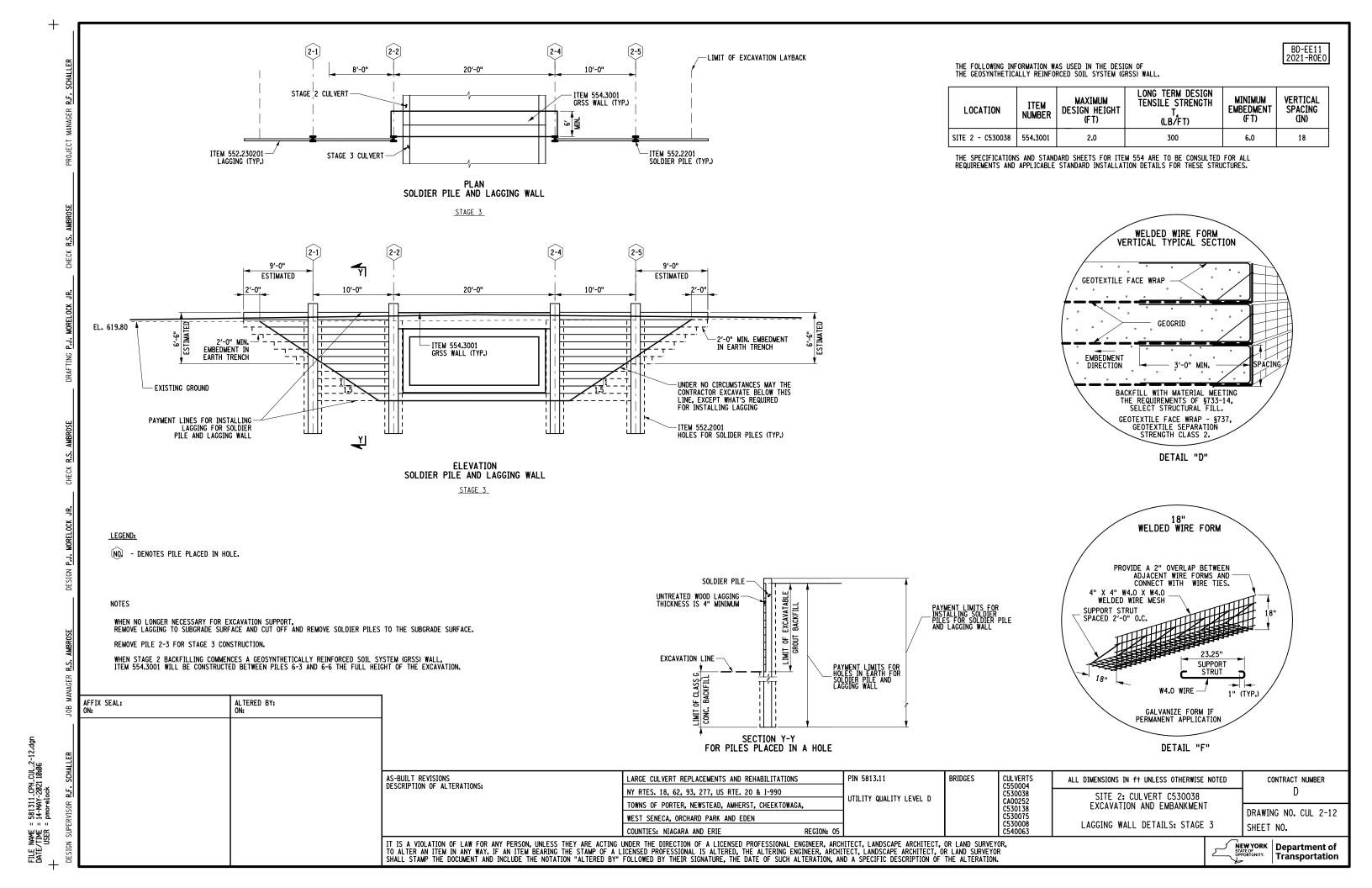












NOTES:

- 1. THE PROPOSED LINER PIPE SHALL BE JUSTIFIED AS FAR TOWARDS THE INVERT OF THE EXISTING CULVERT AS POSSIBLE WHILE STILL ABIDING BY THE STANDARD SPECIFICATIONS AND THE MANUFACTURER'S INSTRUCTIONS. THE SLOPE OF THE PROPOSED LINER PIPE SHALL MATCH THE SLOPE OF THE EXISTING CULVERT TO THE BEST EXTENT POSSIBLE. FINAL PLACEMENT OF THE PROPOSED PIPE LINER SHALL BE A.O.B.E. PLACE IN A MANNER THAT WILL ALLOW GROUT TO FLOW TO ALL SPACES BETWEEN THE PIPE AND THE CULVERT. MAINTAIN A MINIMUM 1" ANNULAR SPACE BETWEEN THE PIPE AND CULVERT AT ALL LOCATIONS. COST TO BULKHEAD THE PROPOSED HOPE LINER FOR VOID FILLING OPERATIONS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 602.2760.
- THE PROPOSED HDPE LINER PIPE SHALL BE ANCHORED TO THE CUT-OFF WALLS AS PER MANUFACTURER'S DETAILS AND A.O.B.E. ALL COSTS ASSOCIATED WITH ANCHORING THE LINER PIPE TO THE CUT-OFF WALL SHALL BE INCLUDED IN HE PRICE BID FOR ITEM 602,2760.
- . MITERED ENDS AND/OR SECTIONS TO BE FIELD WELDED AS PER MANUFACTURER'S RECOMMENDATIONS.
- 4. ACCESS TO EACH SITE SHALL BE CONSTRUCTED WITHIN THE NYSDOT HIGHWAY BOUNDARY AND IN SUCH A WAY TO ENSURE EXISTING STABILITY OF THE ROADWAY, A.O.B.E.

SIDE VIEW NOT TO SCALE

5. THE CONTRACTOR SHALL BE ALLOWED TO TEMPORARILY DISMANTLE EXISTING GUIDE RAIL IN ORDER TO ACCESS SITES, ONLY WITH E.I.C. APPROVAL. SEE DWG. GNN-01, GUIDE RAIL NOTES.

ITEM 602,2760 - LINING WITH PROFILE WALL HIGH DENSITY POLYETHYLENE PIPE MUNICIPALITY EXIST. SIZE/TYPE LENGTH PROP. SIZE/I.D. CULVERT NUMBER | ROUTE SH NUMBER ROUTE MARKER PROPOSED TREATMENT 602.2760 60" SLIPLINE (2) 84" CMP WITH 60" DIA. PROFILE WALL HDPE PIPE - ITEM 602.2760 CA00252 I-990 SH 82-14 RM 990-5301-1033 AMHERS1 (2) 84" - CMP, PAVED INV 186 FT. 186 FT.

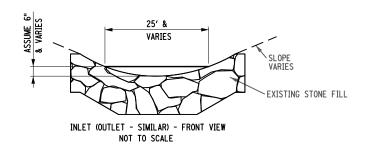
NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990

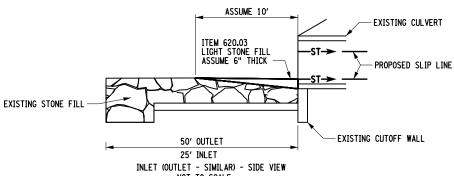
WEST SENECA, ORCHARD PARK AND EDEN

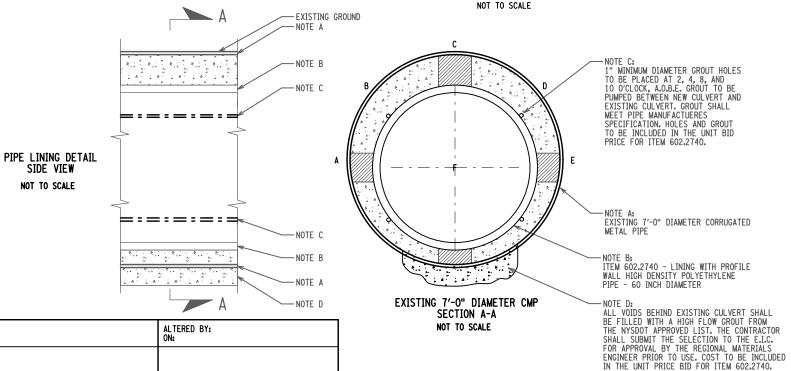
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COUNTIES: NIAGARA AND ERIE

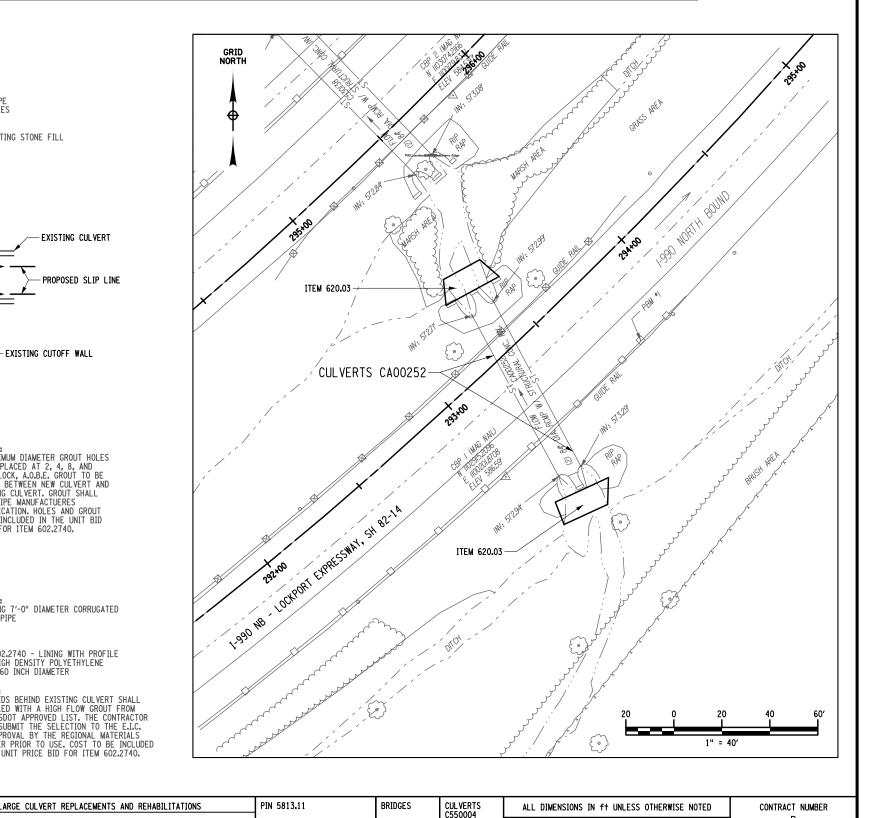
TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA,







AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:



C530038

CA00252 C530138

C530075 C530008

C540063

UTILITY QUALITY LEVEL D

REGION: 05

SITE 3: CULVERT CA00252

CULVERT DETAILS

SLIP LINE

D

DRAWING NO. CUL 3-01

Transportation

NEW YORK Department of

SHEET NO.

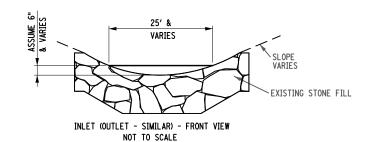
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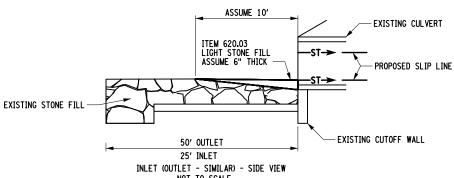
= 581311_CPH_CUL_3-01.d = 14-MAY-2021 10:06 = pmorelock

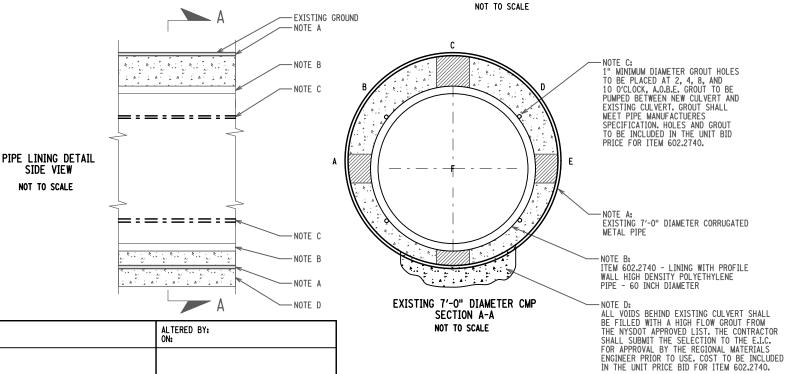
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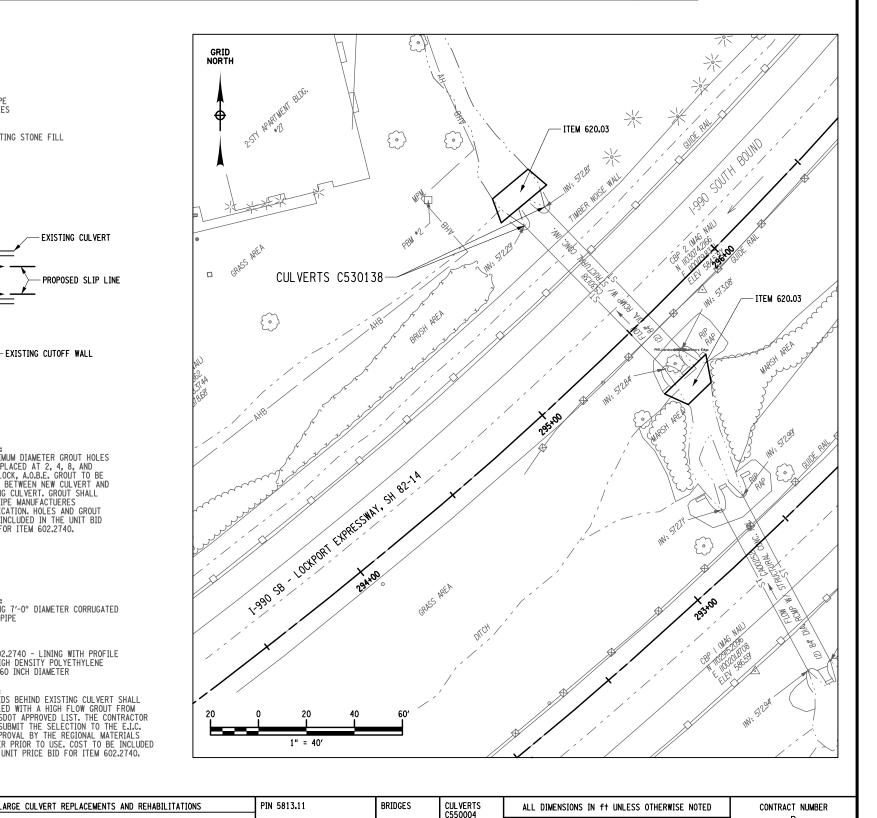
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:



C530038

CA00252 C530138

C530075 C530008

C540063

UTILITY QUALITY LEVEL D

SITE 3: CULVERT C530138

CULVERT DETAILS

SLIP LINE

= 581311_CPH_CUL_3-02. = 14-MAY-2021 10:06 = pmorelock F.

COUNTIES: NIAGARA AND ERIE REGION: 05 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990

WEST SENECA, ORCHARD PARK AND EDEN

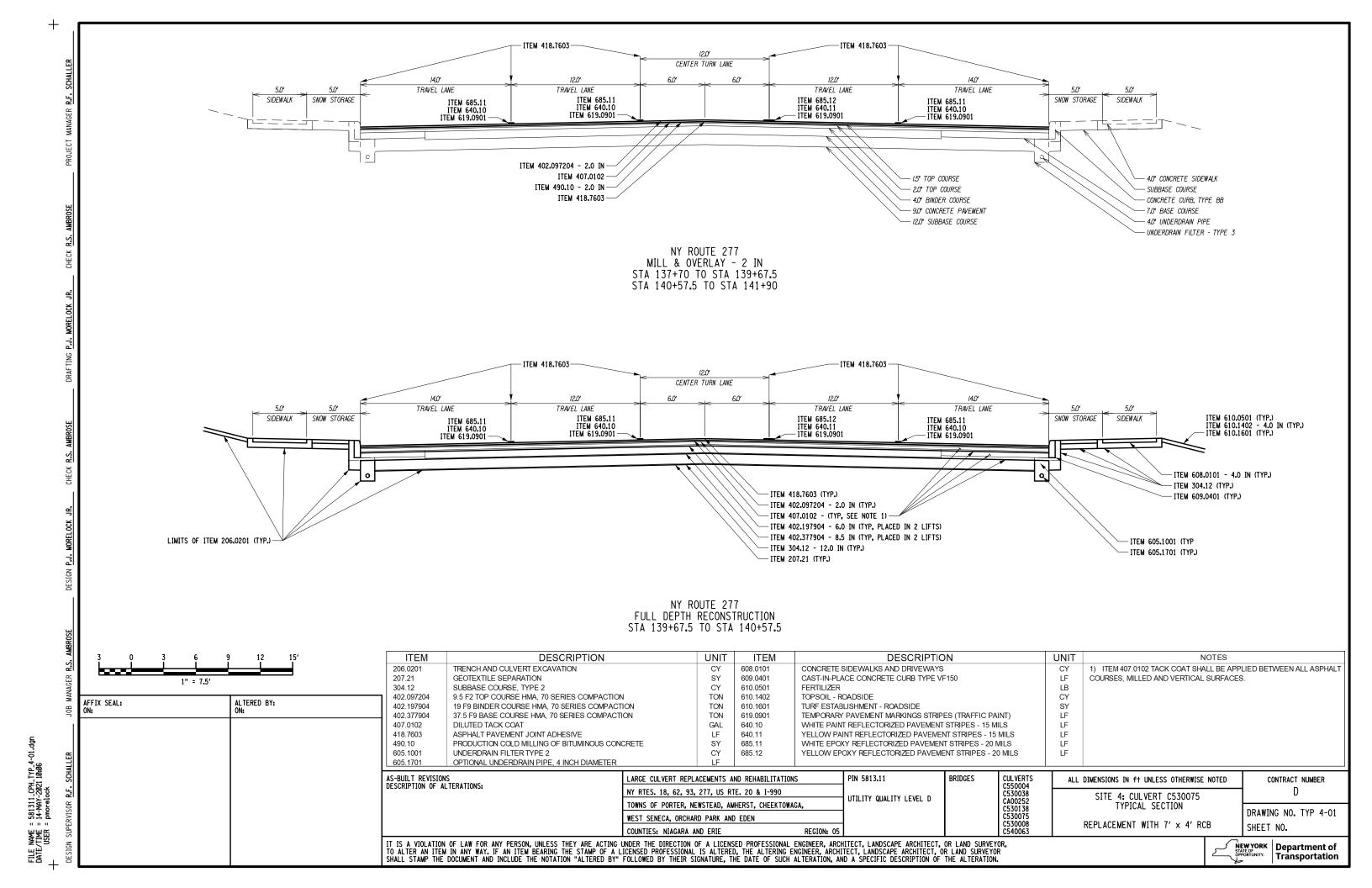
TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA,

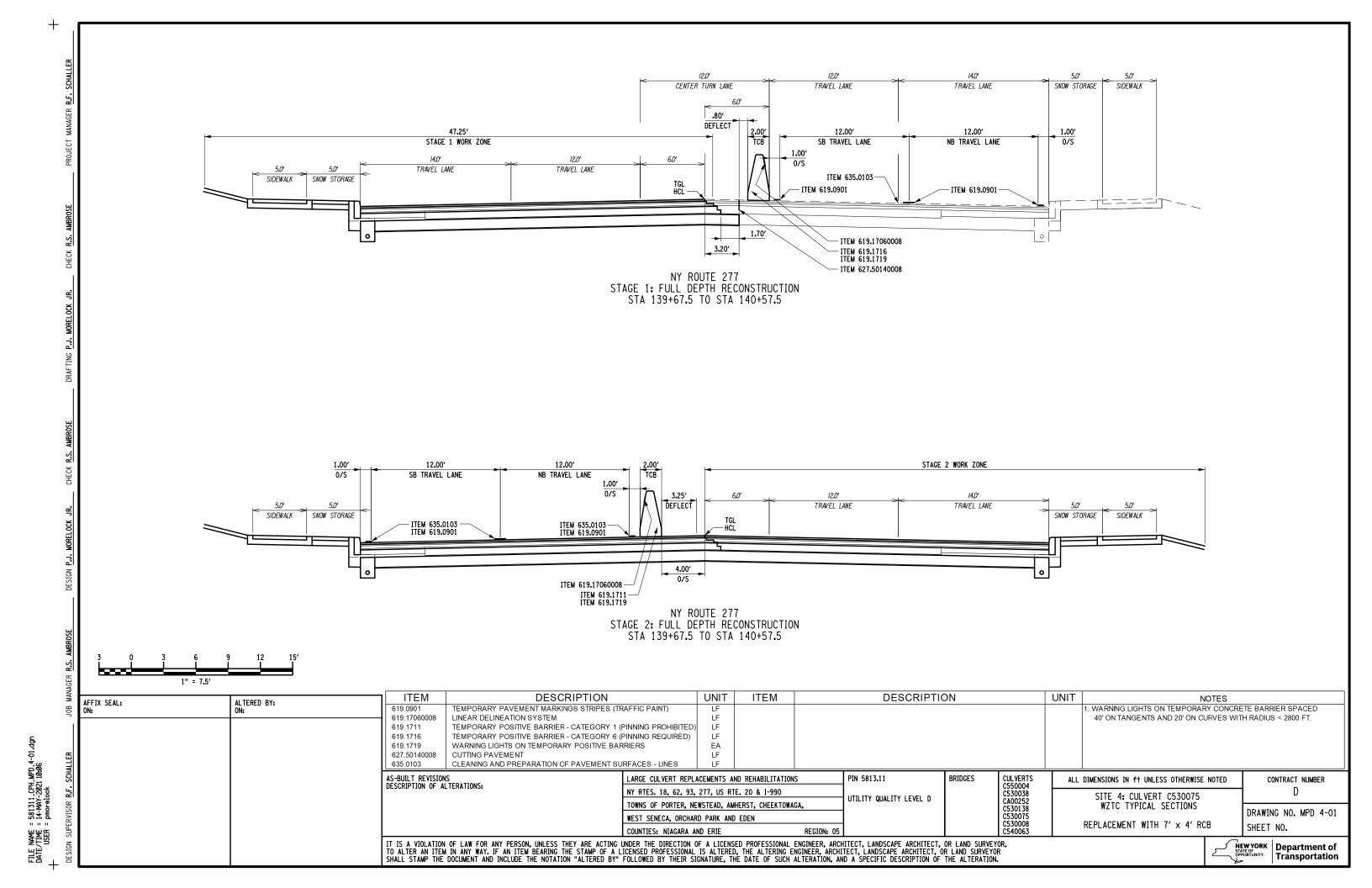
NEW YORK Department of Transportation

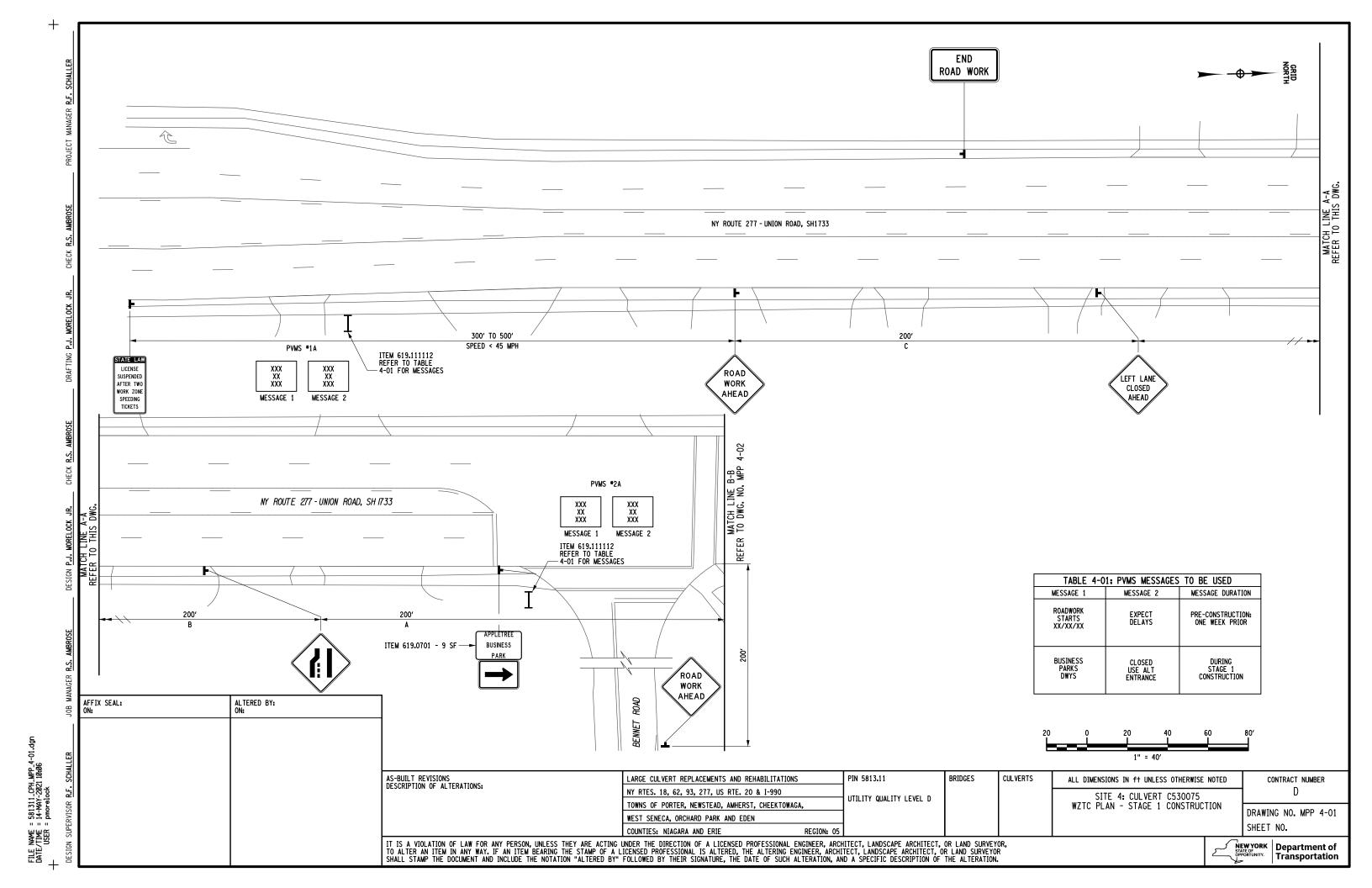
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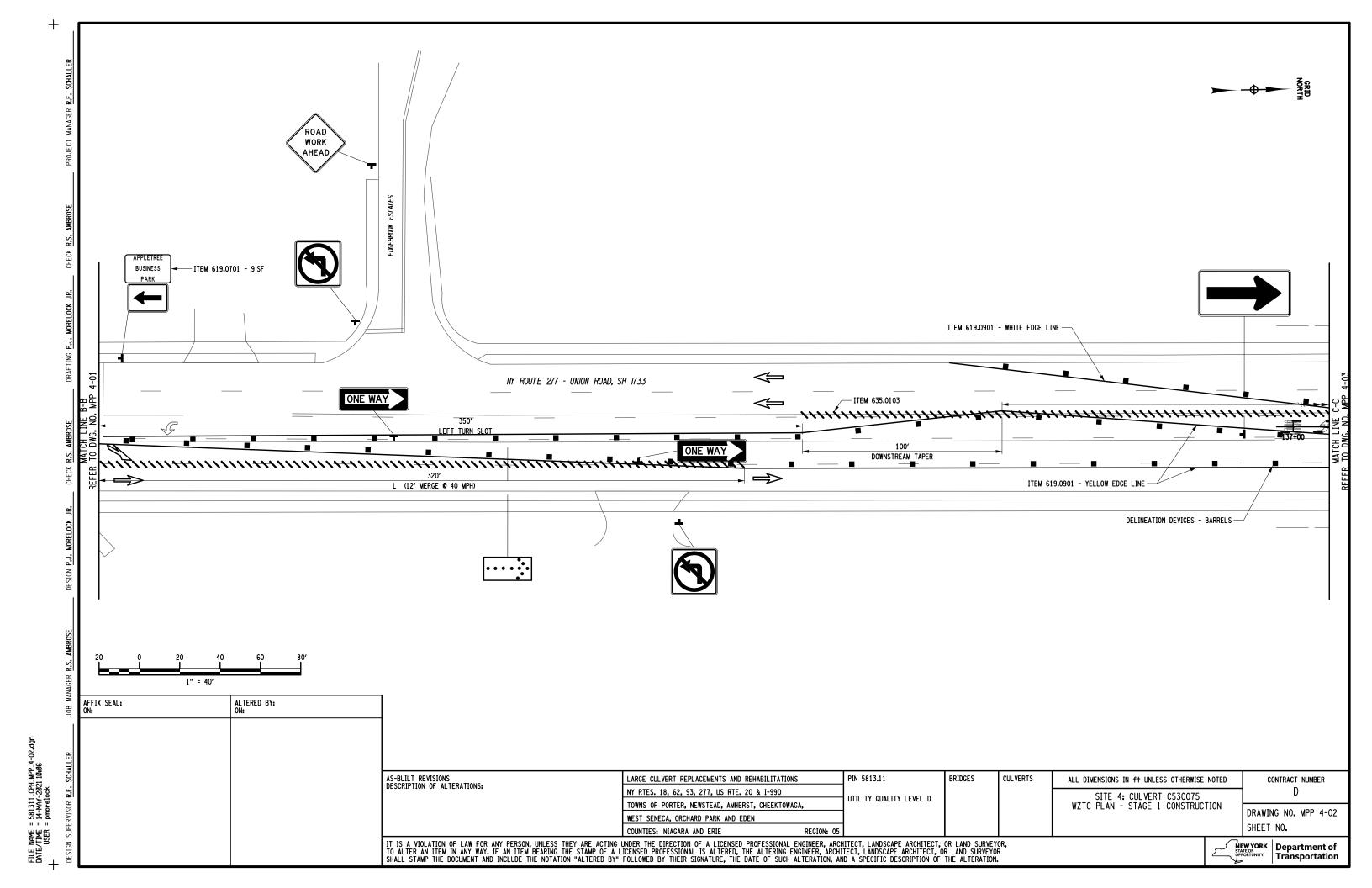
DRAWING NO. CUL 3-02

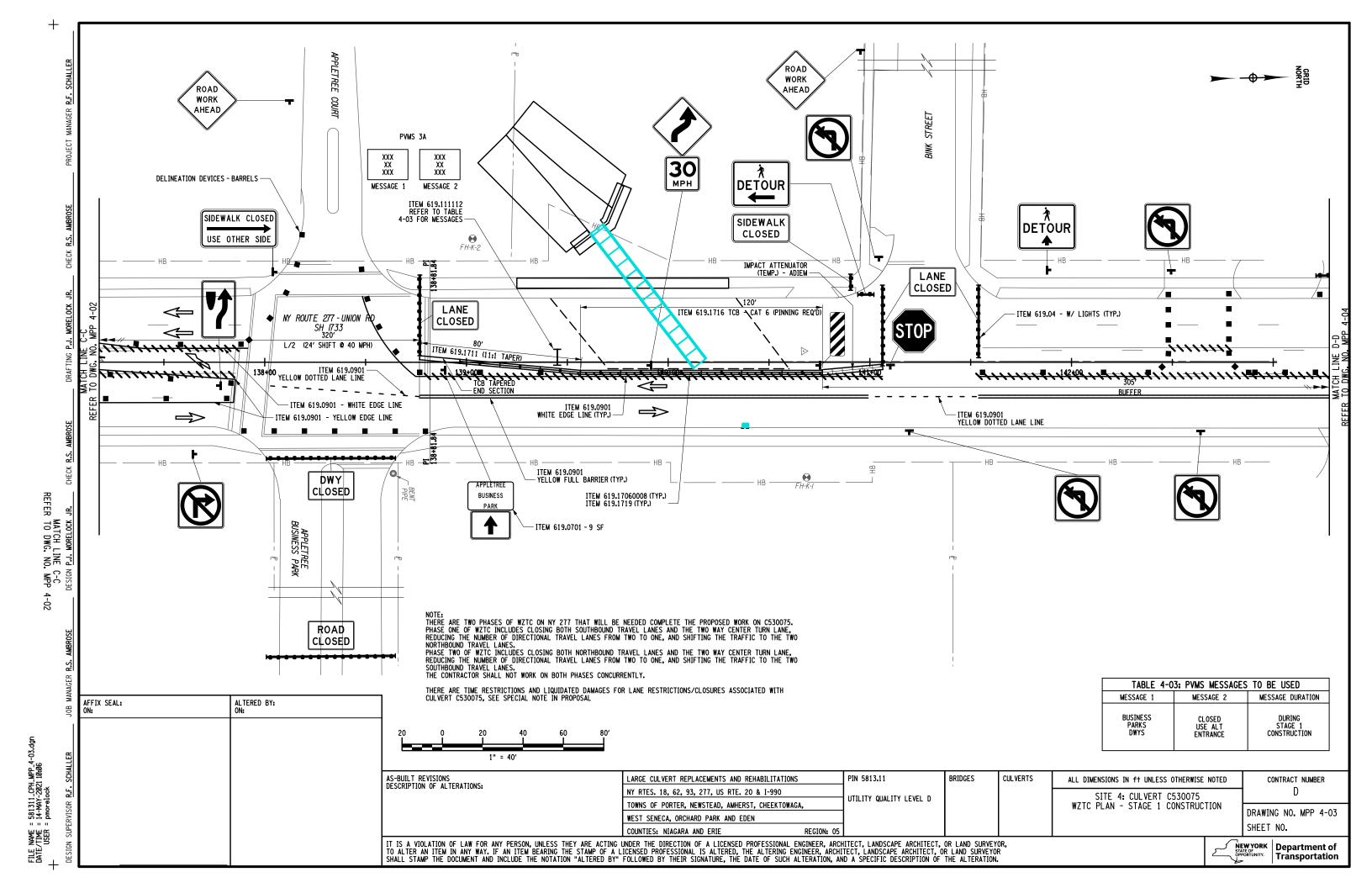
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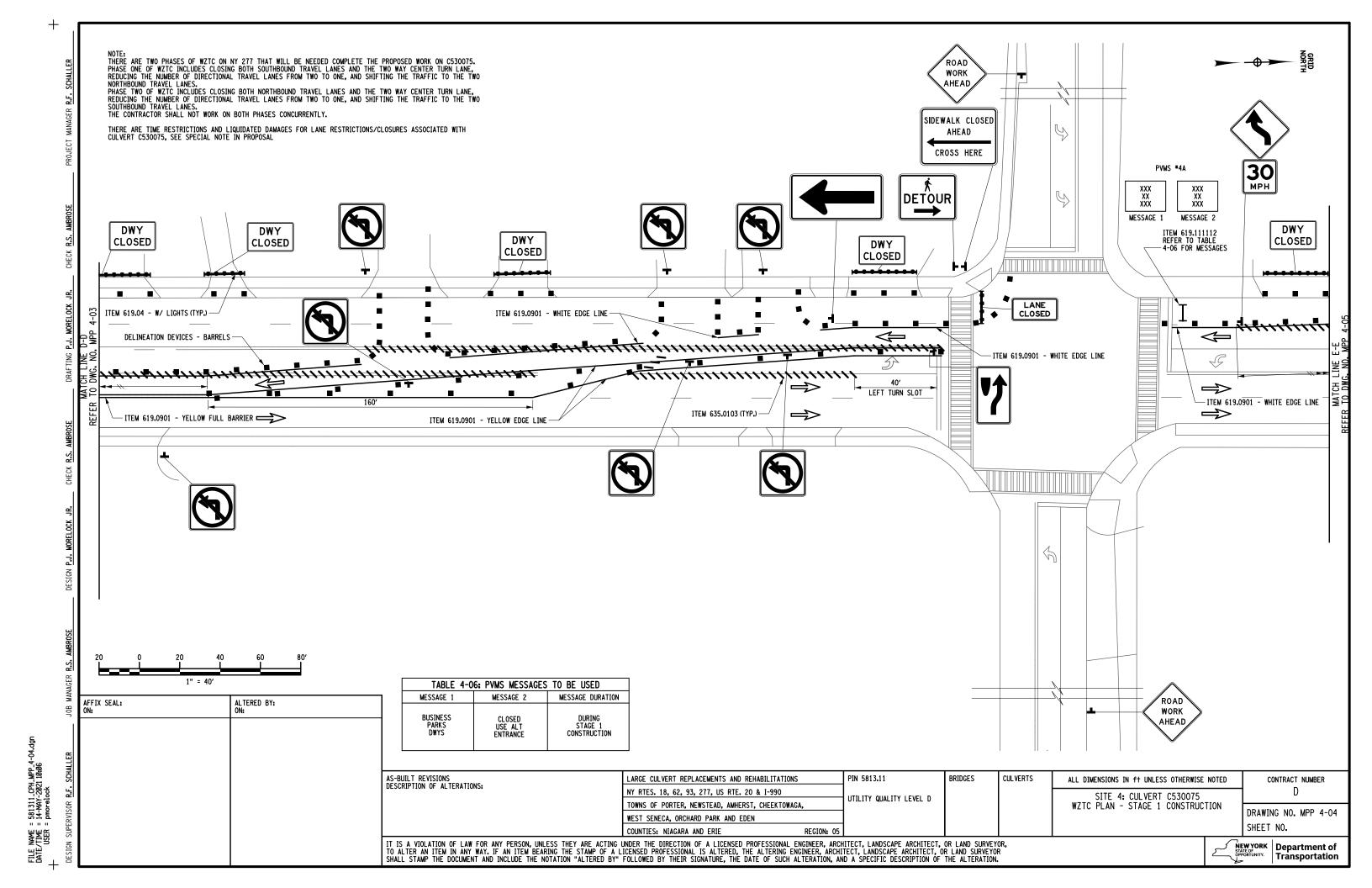


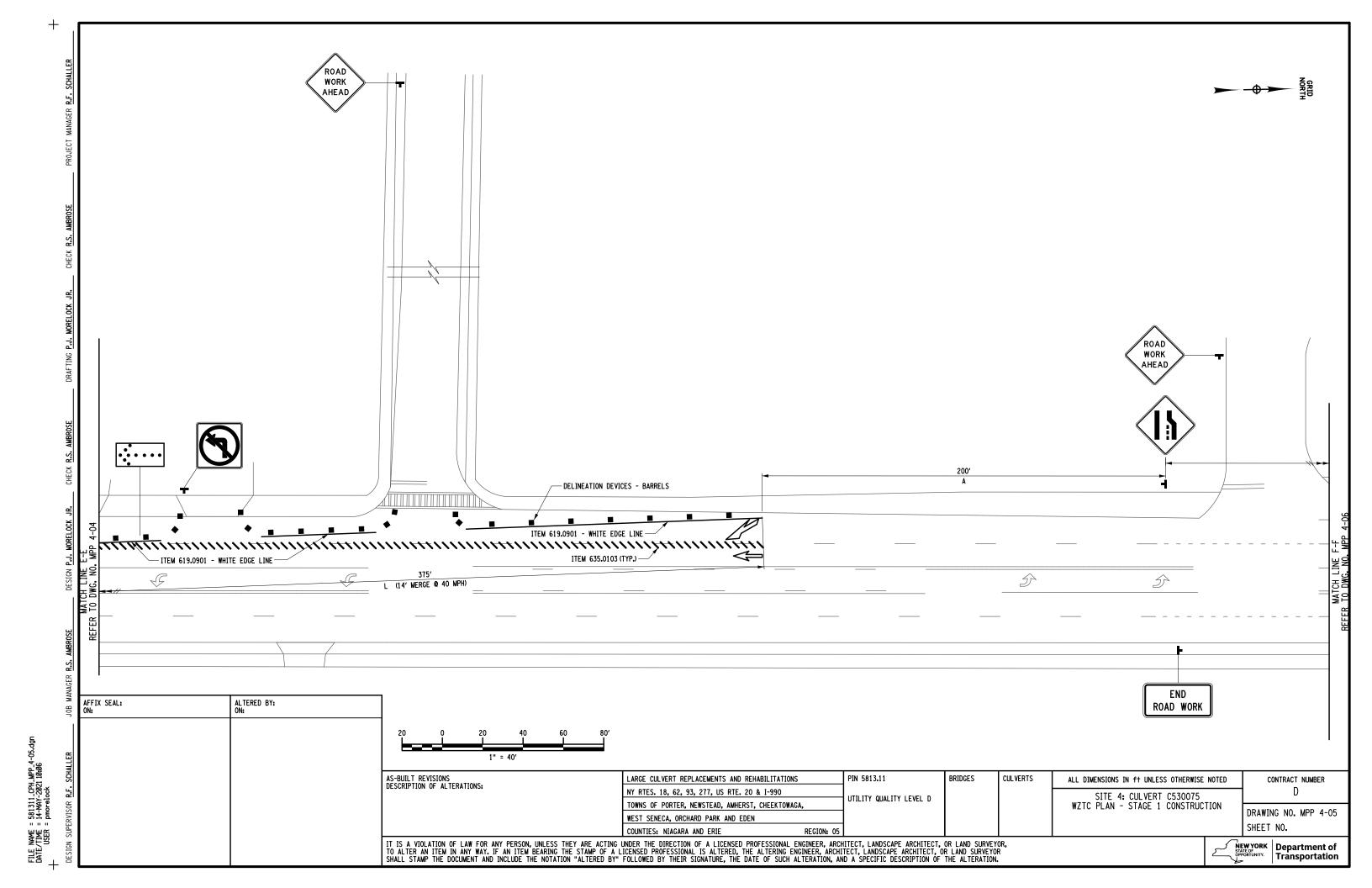


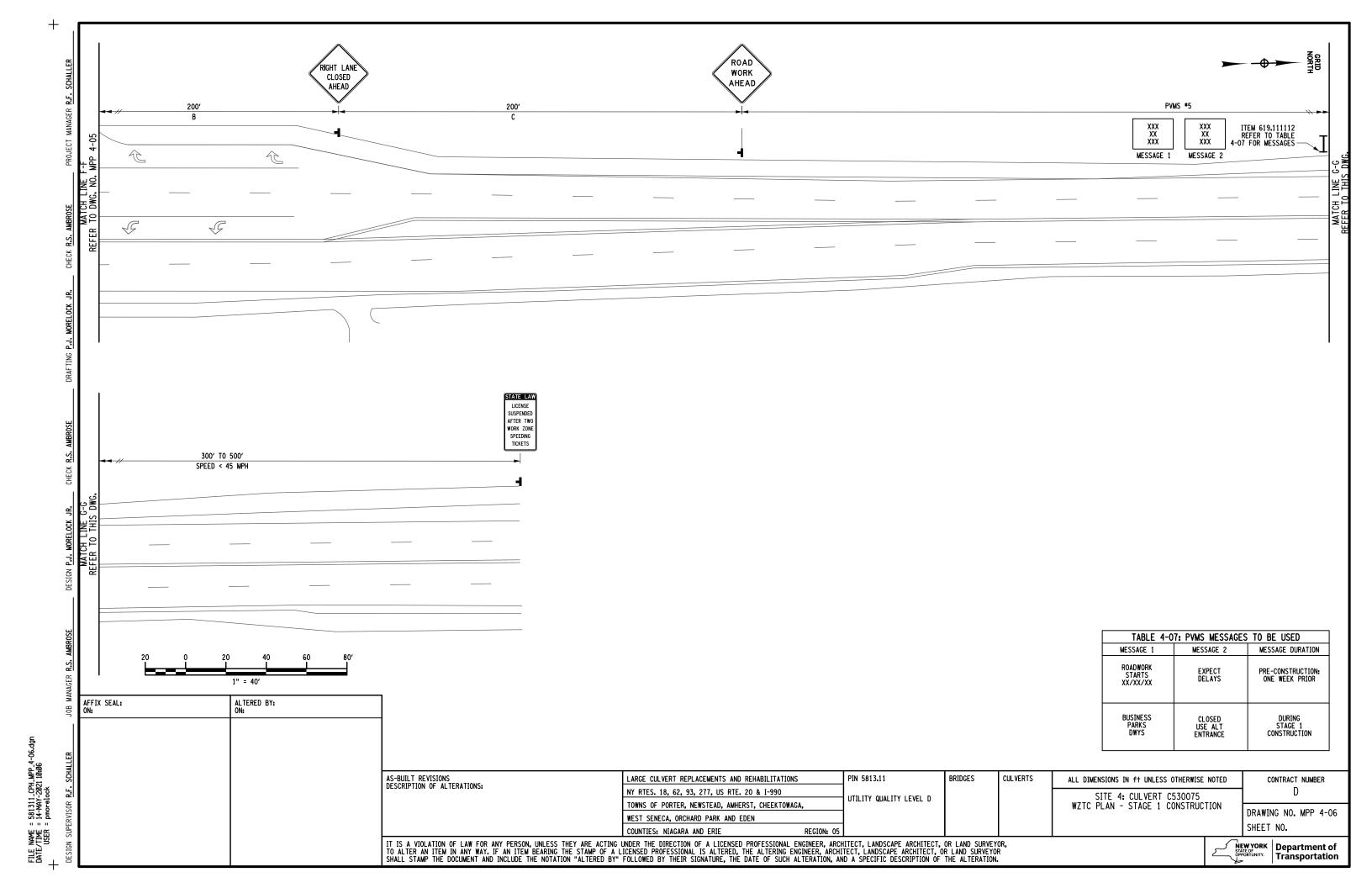


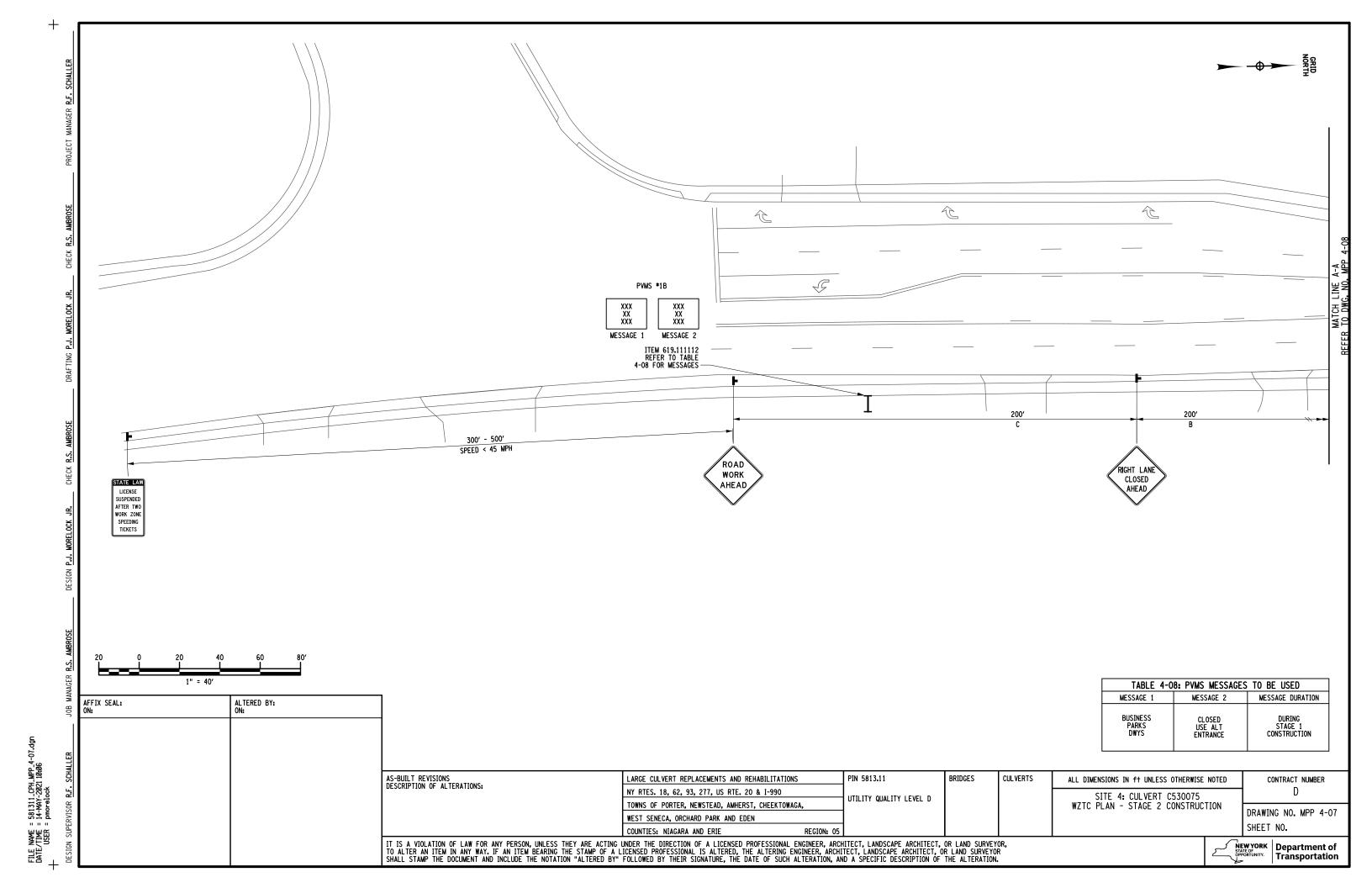


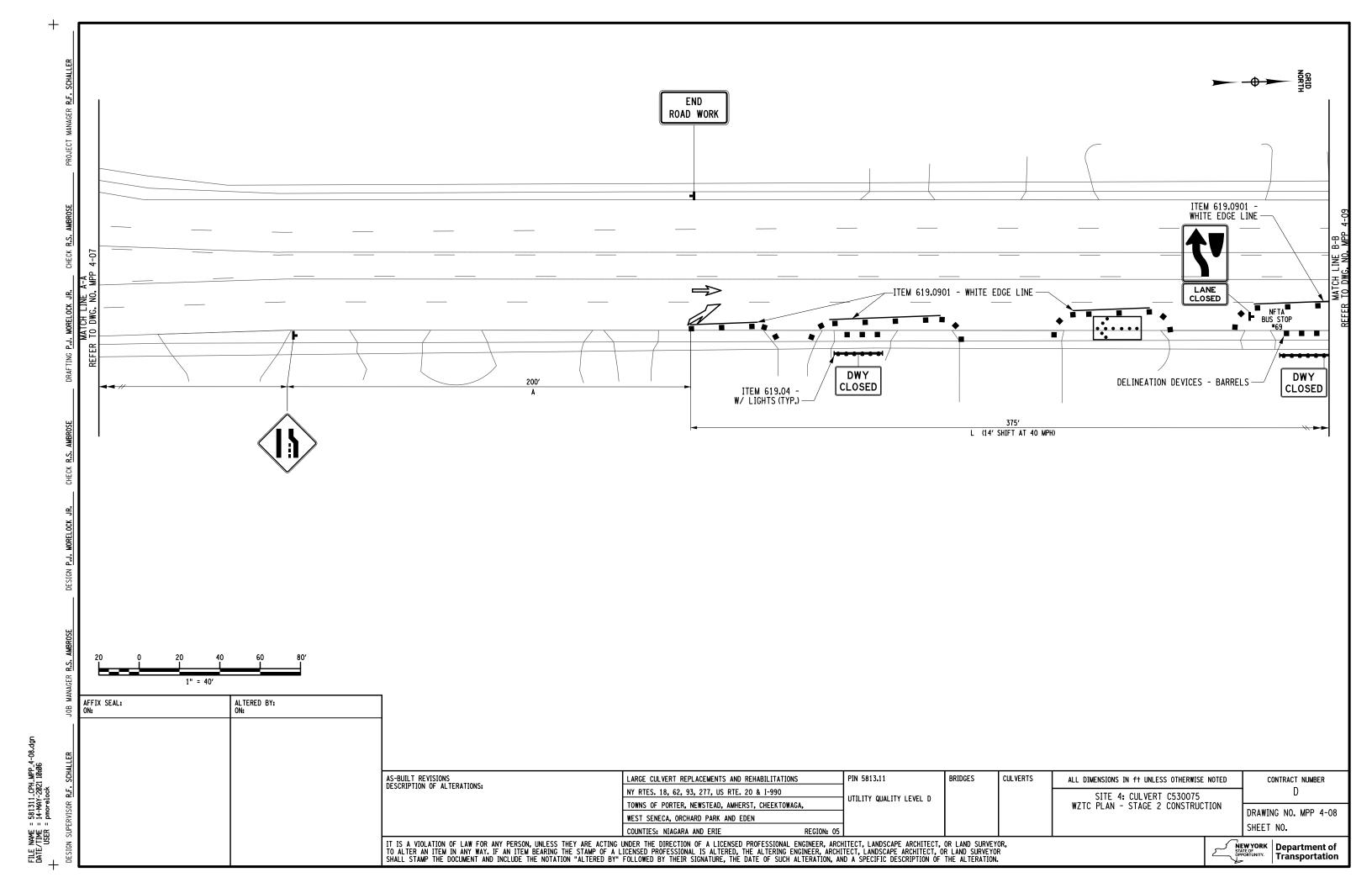


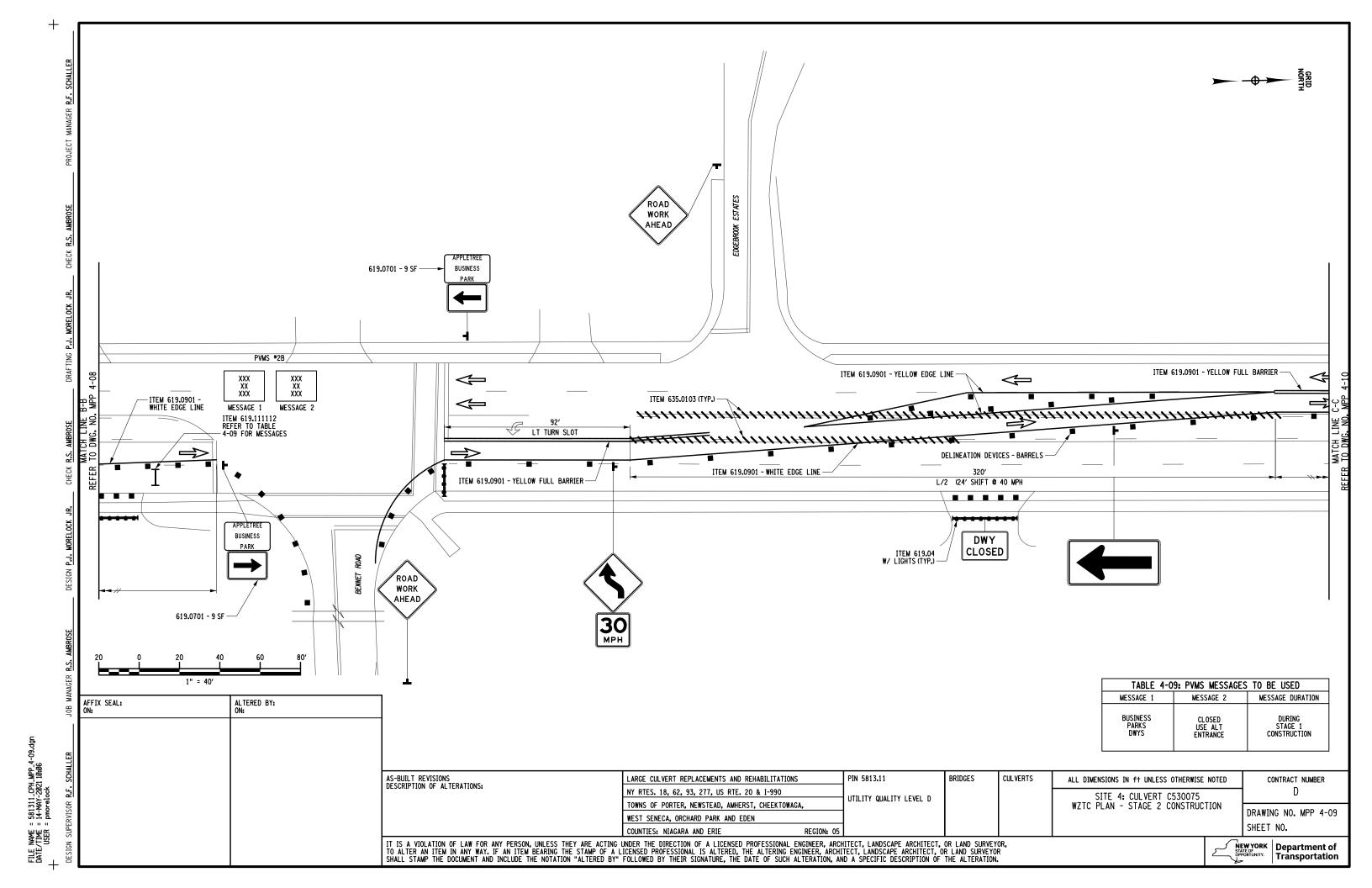


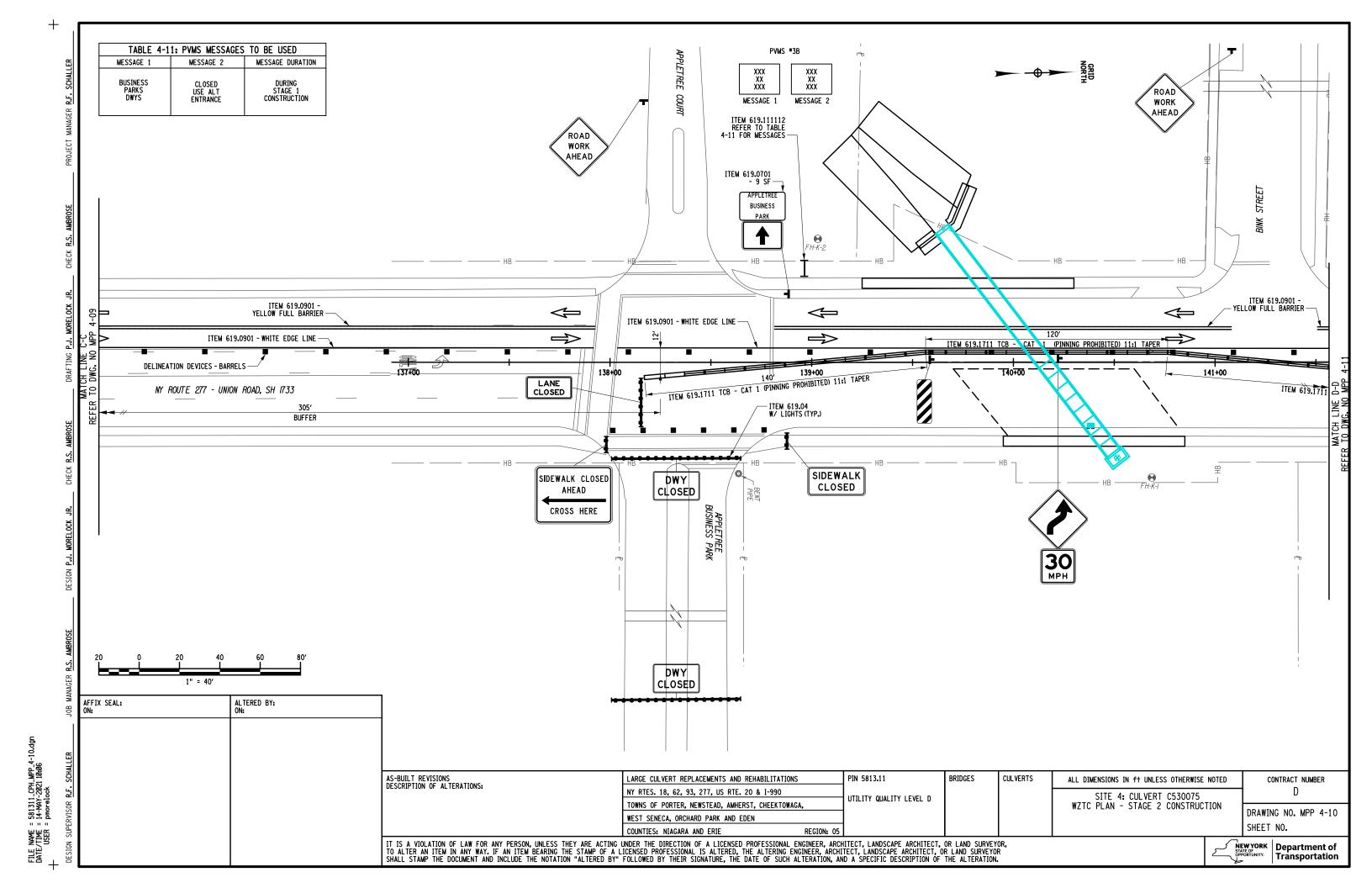


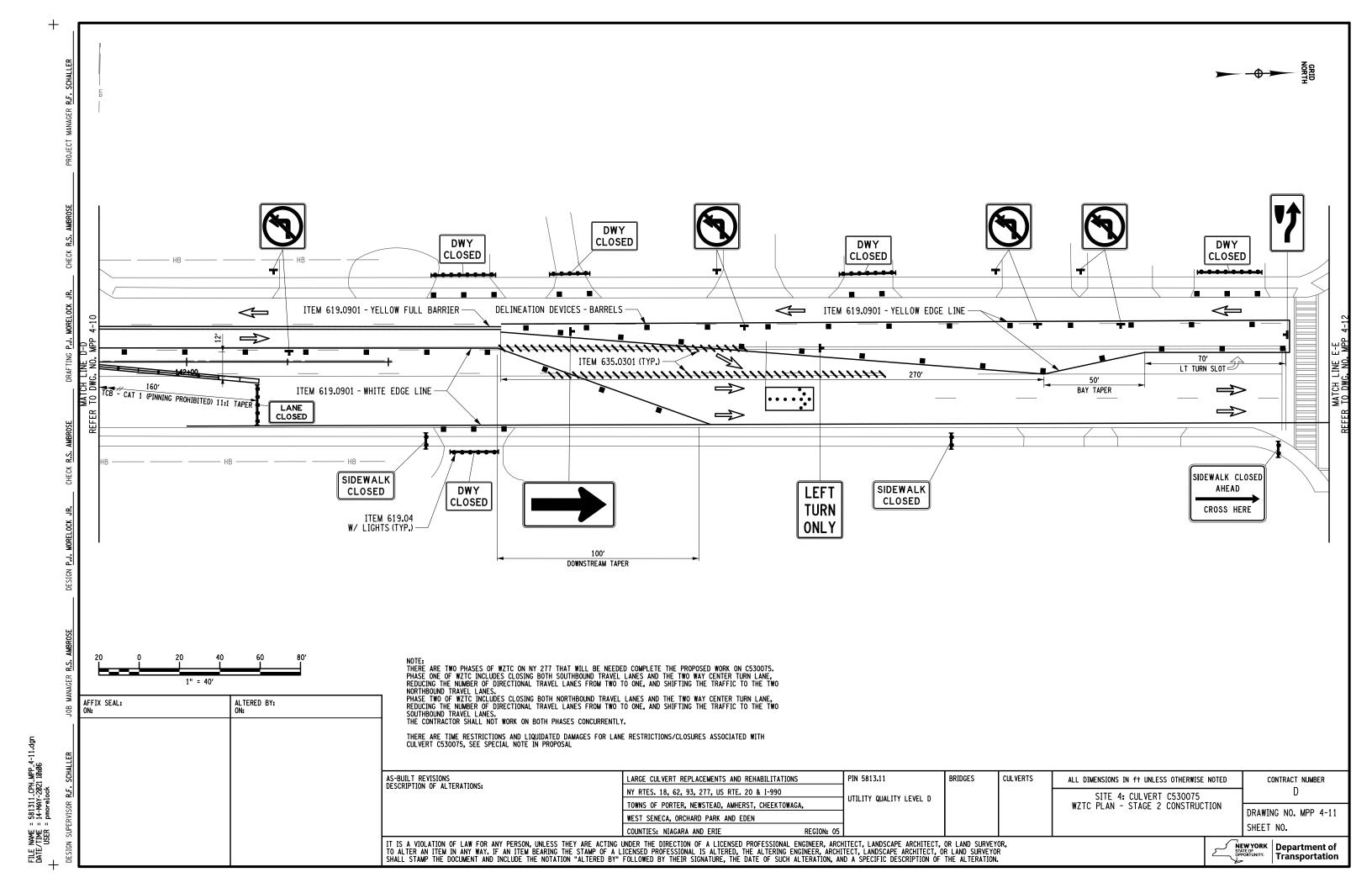


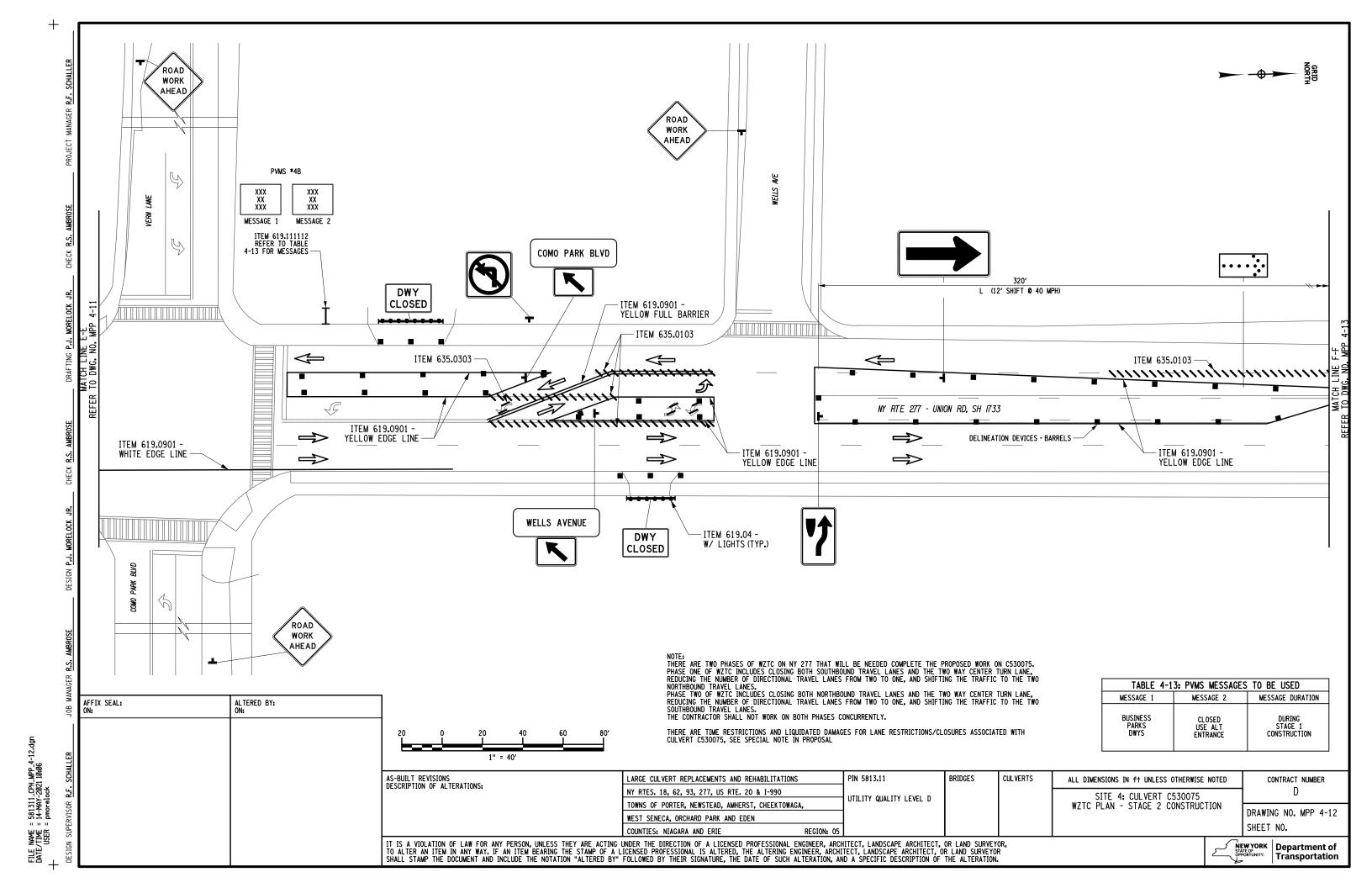


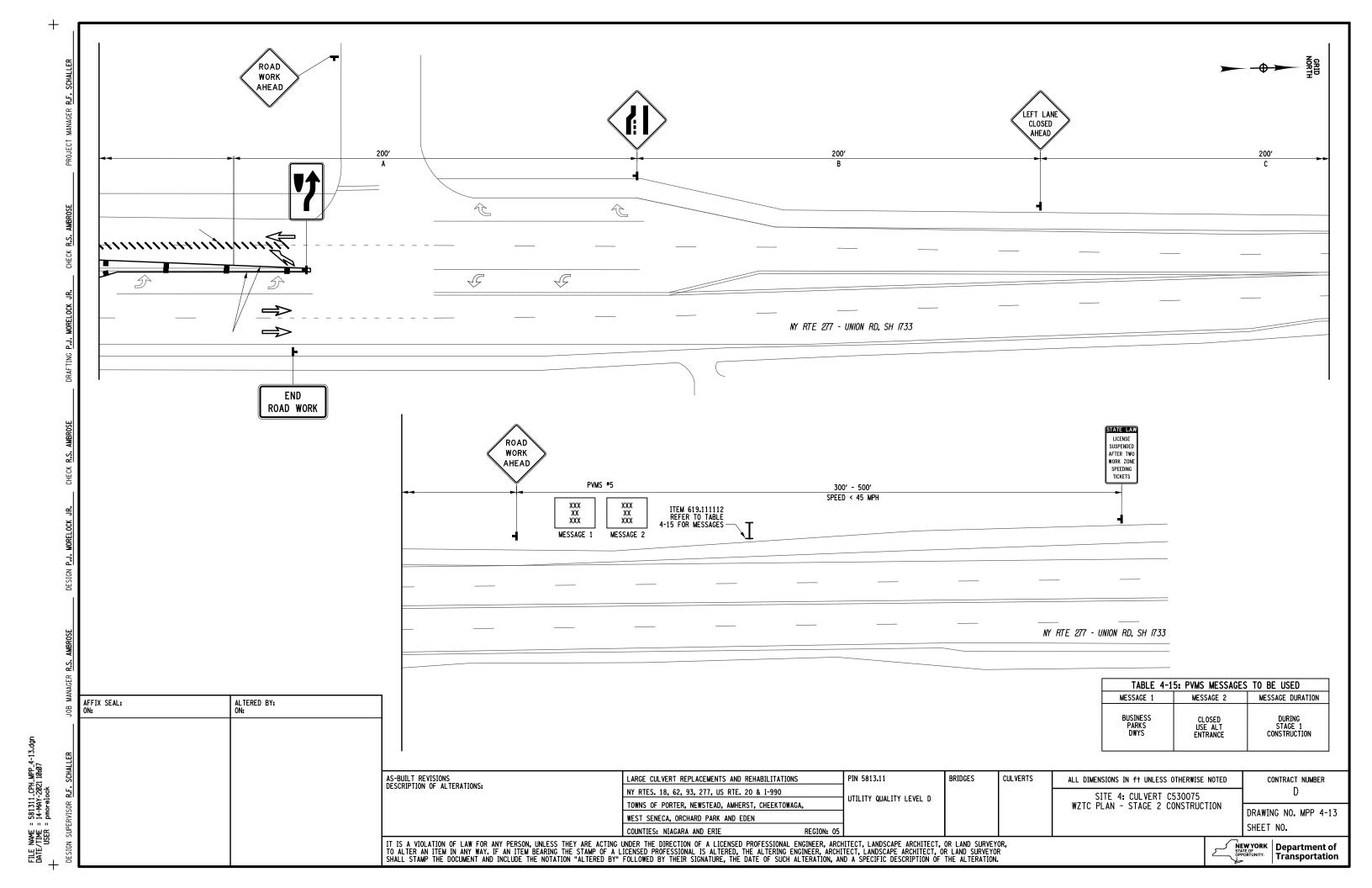


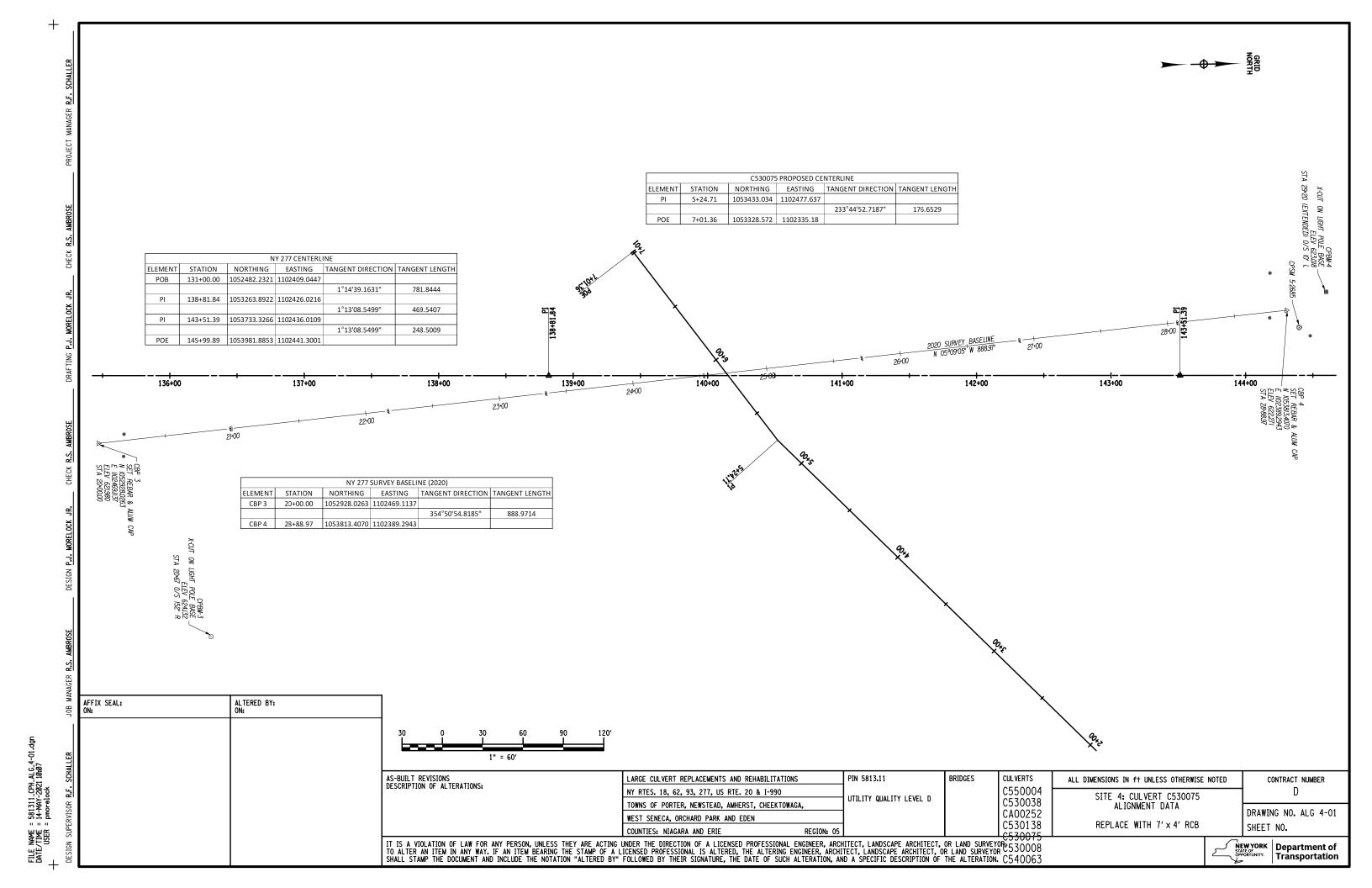








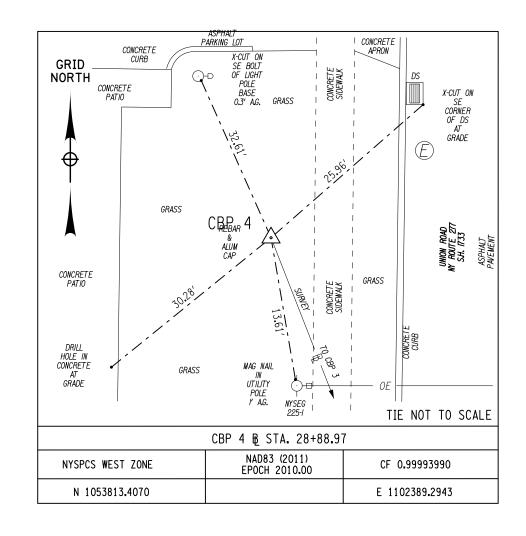




ALTERED BY: ON:

FILE NAME = 581311.CPH_ALG_4-02.dgn DATE/TIME = 14-MAY-2021 10:07 USER = pmorelock

NYT 110 YL₁218 21 NORTH DRILL HOLE IN CONCRETE AT GRADE UTILITY
POLE
I' A.G. GRASS æ **GRASS** 20.16 ASPHALT PARKING LOT ALUM CAP UNION ROAD NY ROUTE 277 S.H. 1733 DRILL_HOLE GRASS GRASS CONCRETE AT GRADE DRILL HOLE IN CONCRETE TIE NOT TO SCALE CBP 3 & STA. 20+00.00 NAD83 (2011) EPOCH 2010.00 NYSPCS WEST ZONE CF 0.99993990 N 1052928.0263 E 1102469.1137



| | TABLE OF BENCHMARKS | | | | | | |
|--------|--------------------------------------|----------|--|--|--|--|--|
| NAME | NAME & STATION ELEVATION DESCRIPTION | | | | | | |
| CPBM-3 | 20+67 152′ R | 624.132′ | SET X-CUT ON WEST FACE OF LIGHT POLE BASE ON THE EAST SIDE OF NYS RT 277 IN THE PARKING LOT OF THE APPLETREE MALL, 200' SOUTH FROM THE MALL ENTRANCE. | | | | |
| CPBM-4 | 29+20 (EXTENDED) 10' L | 623.018′ | SET X-CUT ON SE BOLT OF LIGHT POLE BASE ON THE WEST SIDE OF NYS ROUTE 277, 30' W FROM THE EDGE OF PAVEMENT, 331' NORTH FROM THE INTERSECTION OF BINK STREET. | | | | |

NOTES:

THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WESTERN ZONE, TRANSVERSE MERCATOR PROJECTION OF THE NORTH AMERICAN DATUM OF 1983 (2011) EPOC 2010.00. THE VERTICAL DATUM HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12B).

COORDINATES, BEARINGS AND DISTANCES SHOWN ARE GRID. UNITS ARE IN SURVEY FEET. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 0.99993990.

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NO | OTED | CONTRACT NUMBER |
|--|--|-------------------------|----------------------|------------------------------|--|------|----------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL C | | | SITE 4: CULVERT C530075 | | T D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTILITY QUALITY LEVEL C | | | CONTROL LINE TIES AND BENCHMARK | ks 📙 | DDAWING NO. ALC 4.00 |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | | | DRAWING NO. ALG 4-02 |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | | | SHEET NO. |
| TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A L | IY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. | | NEV STATI OPPO | Department of Transportation | | | |

| ITEM 402.000014 |
|-------------------------------------|
| PLANT PRODUCTION QUALITY ADJUSTMENT |
| TO HMA ITEMS |

| HMA ITEMS | QUANTITY (TONS) | (QAF) | QUALITY UNITS (QU) |
|----------------|--------------------|---------|-----------------------|
| TOP COURSE | 323 | 0.05 | 16.15 |
| BINDER COURSE | 210 | 0.05 | 10.5 |
| BASE COURSE | 302 | 0.05 | 15.1 |
| SHIM | 0 | 0.00 | 0 |
| T&L | 0 | 0.00 | 0 |
| PERMEABLE BASE | 0 | 0.00 | 0 |
| | TOTA | L (QU): | 42 |

| ITEM 304.12 (CY) | | | | | | |
|--|-------|--------|--|--|--|--|
| SUBBASE COURSE, TYPE 2 530075 NY RTE 277 | | | | | | |
| SUBBASE | | | | | | |
| STATION | (SF) | (CY) | | | | |
| 139+67.50 | 81.56 | N/A | | | | |
| 139+69.00 | 81.56 | 4.53 | | | | |
| 139+77.00 | 81.56 | 24.17 | | | | |
| 139+90.00 | 81.56 | 39.27 | | | | |
| 139+97.00 | 81.56 | 21.15 | | | | |
| 140+15.50 | 81.56 | 55.88 | | | | |
| 140+52.00 | 81.56 | 110.26 | | | | |
| 140+57.50 | 81.56 | 16.61 | | | | |
| TOTALS: | 652.5 | 272 | | | | |

ALTERED BY: ON:

| ITEM | ITEM 203.07 (CY) | | | | | | |
|-----------------------------|------------------|----------|--|--|--|--|--|
| SELECT GRANULAR FILL | | | | | | | |
| C530075 CULVERT | | | | | | | |
| STATION | SEI | ECT FILL | | | | | |
| STATION | (SF) | (CY) | | | | | |
| 5+21.90 | 75.47 | N/A | | | | | |
| 5+22.90 | 31.66 | 1.98 | | | | | |
| 5+28.90 | 49.33 | 9.00 | | | | | |
| 5+36.00 | 49.33 | 12.97 | | | | | |
| 5+45.55 | 49.33 | 17.45 | | | | | |
| 5+63.71 | 49.33 | 33.18 | | | | | |
| 5+85.20 | 49.33 | 39.26 | | | | | |
| 6+09.07 | 49.33 | 43.61 | | | | | |
| 6+27.24 | 49.33 | 33.20 | | | | | |
| 6+36.00 | 49.33 | 16.00 | | | | | |
| 6+61.40 | 49.33 | 46.41 | | | | | |
| 6+63.40 | 49.33 | 3.65 | | | | | |
| 6+66.90 | 60.00 | 7.09 | | | | | |
| 6+68.40 | 0.00 | 1.67 | | | | | |
| 6+70.89 | 0.00 | 0.00 | | | | | |
| 6+72.89 | 0.00 | 0.00 | | | | | |
| 6+78.18 | 0.00 | 0.00 | | | | | |
| 7+01.36 | 0.00 | 0.00 | | | | | |

| ITEM 201.07000004 (SY) | | | | | | | | | |
|------------------------|------------|--------|------|----------------|---------------|----------|--------|--|--|
| CLEARING AND GRUBBING | | | | | | | | | |
| FROM STATION | TO STATION | OFFSET | SIDE | LENGTH (FT) | WIDTH (FT) | SF | SY | | |
| 139+00.00 | 140+00.00 | 45 | LT | 100.00 | 27.00 | 2,700.00 | 300.00 | | |
| | | | | | | TOTAL: | 300 | | |

| ITEM 207.20 (SY) | | | | | | | | |
|--------------------|-------------|--------|----------------|---------------|--------------|--------------|--|--|
| GEOTEXTILE BEDDING | | | | | | | | |
| FROM STATION | TO STATION | SIDE | LENGTH (FT) | WIDTH (FT) | AREA (SF) | AREA (SY) | | |
| | | CULVER | Т | | | | | |
| 5+21.90 | 6+68.40 | | 156.17 | 14.33 | 2,238.34 | 248.70 | | |
| W | WINGWALL #1 | | | | 164.83 | 18.31 | | |
| W | 23.50 | 11.50 | 270.25 | 30.03 | | | | |
| | | | | | TOTAL: | 297 | | |

| ITEM 207.21 (SY) | | | | | | | |
|-----------------------|------------|----------------|---------------|--------------|--------------|--|--|
| GEOTEXTILE SEPARATION | | | | | | | |
| | NY RTE 277 | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | AREA (SF) | AREA (SY) | | |
| 139+67.50 | 140+57.50 | 90.00 | 64.00 | 5,760.00 | 640.00 | | |
| | | | | TOTAL: | 640 | | |

| ALLER | | | | | | | | |
|--------|--|---|--|--|--|------------------|---|--|
| 짌 | | AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
| 鉴 | | DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | D |
| SOR | | | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | - OTTETTT WOMENT EEVEL D | | | C530075 | DRAWING NO. MST 4-01 |
| ERVI | | | WEST SENECA, ORCHARD PARK AND EDEN | _ | | | MISCELLANEOUS TABLE 4-01 | |
| SUP | | | COUNTIES: NIAGARA AND ERIE REGION: 05 | i <u> </u> | | | | SHEET NO. |
| DESIGN | | IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" | UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARC LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCH FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, A | CHITECT, LANDSCAPE ARCHITECT, HITECT, LANDSCAPE ARCHITECT, (HND A SPECIFIC DESCRIPTION OF | OR LAND SURVE OR LAND SURVEY THE ALTERATIO | YOR, OR N. | 2 | NEW YORK STATE OF OPPORTUNITY. Department of Transportation |

ALTERED BY: ON:

| | JOB |
|--|---------------------------------|
| FILE NAME = 581311_CPH_MST_4-02.dgn DATE/TIME = 14-MAY-2021 10:07 USER = pmorelock | DESIGN SUPERVISOR R.F. SCHALLER |

| ITEM 407.0102 (GAL) | | | | | | | | | |
|---------------------|--|----------------|---------------|--------------|----------------|------|--------|--|--|
| TACK COAT - DILUTED | | | | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | AREA (SY) | # OF LAYERS | RATE | GALS | | |
| | NY ROL | TE 277 - N | IILL AND | OVERLAY | | | | | |
| 137+70.00 | 139+67.50 | 197.50 | 64.00 | 1,404.44 | 1.00 | 0.10 | 140.44 | | |
| 140+57.50 | 141+90.00 | 132.50 | 64.00 | 942.22 | 1.00 | 0.10 | 94.22 | | |
| | NY ROUTE 277 - FULL DEPTH RECONSTRUCTION | | | | | | | | |
| 139+67.50 | 140+57.50 | 90.00 | 64.00 | 640.00 | 4.00 | 0.06 | 153.60 | | |
| TOTAL: | | | | | | | | | |

| ITEM 490.10 (SY) | | | | | | | |
|---|------------|----------------|---------------|--------------|--|--|--|
| PRODUCTION COLD MILLING BITUMINOUS CONCRETE | | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | AREA (SY) | | | |
| 137+70.00 | 139+67.50 | 197.50 | 64.00 | 1404.44 | | | |
| 140+57.50 | 141+90.00 | 132.50 | 64.00 | 942.22 | | | |
| | | | TOTAL: | 2,347 | | | |

| ITEMS 402.097204 (TON) | | | | | | | | | |
|---|--------------|------------|----------------|---------------|---------------|--------|--------|--|--|
| 9.5 F2 TOP COURSE HMA, 70 SERIES COMPACTION | | | | | | | | | |
| DESCRIPTION | FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS | | |
| NY ROUTE 277 MILL & OVERLAY | 137+70.00 | 139+67.50 | 197.50 | 64.00 | 2.00 | 78.02 | 151.56 | | |
| NY ROUTE 277 FULL DEPTH RECONSTRUCTION | 139+67.50 | 140+57.50 | 90.00 | 64.00 | 2.00 | 35.56 | 69.07 | | |
| NY ROUTE 277 MILL & OVERLAY | 140+57.50 | 141+90.00 | 132.50 | 64.00 | 2.00 | 52.35 | 101.68 | | |
| | | | | | | TOTAL: | 323 | | |

| ITEMS 402.197904 (TON) | | | | | | | | | |
|---|--------------|------------|----------------|---------------|---------------|--------|--------|--|--|
| 19 F9 BINDER COURSE HMA, 70 SERIES COMPACTION | | | | | | | | | |
| DESCRIPTION | FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS | | |
| NY ROUTE 277 FULL DEPTH RECONSTRUCTION | 139+67.50 | 140+57.50 | 90.00 | 64.00 | 6.00 | 106.67 | 210.10 | | |
| TOTAL: 2 | | | | | | | | | |

| ITEMS 402.377904 (TON) | | | | | | | | |
|---|--------------|------------|----------------|---------------|---------------|--------|--------|--|
| 37.5 F9 BASE COURSE HMA, 70 SERIES COMPACTION | | | | | | | | |
| DESCRIPTION | FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS | |
| NY ROUTE 277 FULL DEPTH RECONSTRUCTION | 139+67.50 | 140+57.50 | 90.00 | 64.00 | 8.50 | 151.11 | 301.50 | |
| | | | | | | TOTAL: | 302 | |

| | ITEM 418.7603 (LF) ASPHALT PAVEMENT JOINT ADHESIVE | | | | | | | | | | |
|-----------------|--|----------------|---------------------|--------------|---------------------------|----------------------------|-----------------|--------------------------------|-----------------|----------------|---------------|
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) (Avg) | AREA (SY) | CURB LINE LEFT (FT) | CURB LINE RIGHT (FT) | No. OF LANES | LONGITUDINAL JOINTS (FT) | C. L. JOINTS | BUTT JOINTS | TOTAL (LF) |
| 137+70.00 | 141+90.00 | 420.00 | 64 | 2,987 | 420.00 | 420.00 | 5 | 1,680 | 1 | 2 | 3,068 |
| | | | | | | | | | | TOTAL: | 3,068 |

| AS-BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED | CONTRACT NUMBER | |
|-----------------------------|---|------------|-------------------------|---------|----------|---|-------------------------|--|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | | UTILITY QUALITY LEVEL D | | | | † D | |
| | OWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | | UTILITY QUALITY LEVEL D | | | C530075 | DD I WILL NO. 1107 A 00 | |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | l | | MISCELLANEOUS TABLE 4-02 | DRAWING NO. MST 4-02 | |
| | COUNTIES: NIAGARA AND ERIE | REGION: 05 | | | | | SHEET NO. | |

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK STATE OF OPPORTUNITY.

Department of Transportation

ITEM 552.2002 (LF)

HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED)

| PILE NO. | STATION | OFFSET | SIDE | DEPTH (LF) |
|----------|-----------|--------|--------|---------------|
| 4-1 | 139+98.18 | 2.35 | RT | 4.7 |
| 4-2 | 140+06.18 | 2.35 | RT | 8.9 |
| 4-3 | 140+12.18 | 2.35 | RT | 10.2 |
| 4-4 | 140+21.93 | 2.35 | RT | 10.2 |
| 4-5 | 140+27.93 | 2.35 | RT | 8.9 |
| 4-6 | 140+35.93 | 2.35 | RT | 4.7 |
| | _ | | TOTAL: | 48 |

ITEM 552.2102 (LF)

ROCK SOCKETS FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED)

| | ` ' | | | | | | | | |
|----------|-----------|---------|--------|---------------|--|--|--|--|--|
| PILE NO. | STATION | OFFSET | SIDE | DEPTH (LF) | | | | | |
| 4-1 | 139+98.18 | 2.35 | RT | 6.0 | | | | | |
| 4-2 | 140+06.18 | 2.35 | RT | 6.0 | | | | | |
| 4-3 | 140+12.18 | 2.35 | RT | 6.0 | | | | | |
| 4-4 | 140+21.93 | 2.35 | RT | 6.0 | | | | | |
| 4-5 | 140+27.93 | 2.35 | RT | 6.0 | | | | | |
| 4-6 | 140+35.93 | 2.35 RT | | 6.0 | | | | | |
| | | | TOTAL: | 36 | | | | | |

ITEM 552.230202 (SF)

UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED)

| PLAN NO. | FROM STATION | TO STATION | OFFSET | SIDE | HEIGHT (LF) | LENGTH (LF) | AREA (SF) |
|----------|--------------|------------|--------|------|----------------|----------------|-----------|
| CUL 4-09 | 139+90.68 | 139+98.18 | 2.35 | RT | 5.50 | 7.50 | 41.25 |
| CUL 4-09 | 139+98.18 | 140+35.93 | 2.35 | RT | 11.00 | 37.75 | 415.25 |
| CUL 4-09 | 140+35.93 | 140+43.43 | 2.35 | RT | 5.50 | 7.50 | 41.25 |
| | | | | | | TOTAL: | 498 |

ITEM 552.2202 (LF)

SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED)

| PILE NO. | STATION | OFFSET | SIDE | LENGTH (LF) |
|----------|-----------|--------|--------|----------------|
| 4-1 | 139+98.18 | 2.35 | RT | 17.0 |
| 4-2 | 140+06.18 | 2.35 | RT | 17.0 |
| 4-3 | 140+12.18 | 2.35 | RT | 17.0 |
| 4-4 | 140+21.93 | 2.35 | RT | 17.0 |
| 4-5 | 140+27.93 | 2.35 | RT | 17.0 |
| 4-6 | 140+35.93 | 2.35 | RT | 17.0 |
| | | | TOTAL: | 102 |

ITEM 553.030002 (EA)

TEMPORARY WATERWAY DIVERSION STRUCTURE

| | DIVERSION STRUCTURE | | | | | | | | | |
|---------------|---------------------|--------------|--------------|--|--|--|--|--|--|--|
| PLAN SHEET | DRAINAGE NO. | PHASE | QTY. (EA) | | | | | | | |
| GNP 4-01 | C530075 | STAGES 1 & 2 | 1 | | | | | | | |
| | | TOTAL: | 1 | | | | | | | |

ITEM 595.50000018 (SF)

SHEET-APPLIED WATERPROOFING MEMBRANE

| FROM STATION | TO STATION | LENGTH (FT) | ASSUMED SEGMENT LENGTH | # OF JOINTS | JOINT WIDTH (FT) | JOINT LENGTH (FT) | AREA (SF) |
|--------------|------------|----------------|------------------------------|----------------|------------------------|-------------------------|-----------|
| | | C5 | 30075 CULV | ERT | | | |
| 5+28.00 | 6+68.50 | 140.50 | 7.00 | 19 | 2.0 | 21.3 | 810.69 |
| | | C53 | 0075 HEADV | VALL | | | |
| 6+67.00 | 6+67.00 | 1.00 | | | 8.33 | | 8.33 |
| | | | | | | TOTAL: | 820 |

| AFFIX SEAL: ON: | ALTERED BY: ON: | |
|--------------------|--------------------|--|
| | | |
| | | |
| | | |
| | | |

| REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS |
|---------------------|--|
| TON OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, |
| | WEST SENECA ODGUADO DADY AND EDEN |

PIN 5813.11 BRIDGES UTILITY QUALITY LEVEL D

CULVERTS ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED C530075 MISCELLANEOUS TABLE 4-03

CONTRACT NUMBER DRAWING NO. MST 4-03 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



| ITEM 603.77 (EA) | | | | | | | | | |
|--|------------------|-----------|----|----|---|--|--|--|--|
| | CONCRETE COLLARS | | | | | | | | |
| PLAN PIPE DIAMETER STATION OFFSET SIDE QTY. (EA) | | | | | | | | | |
| GNP 4-01 | 12 | 139+96.00 | 38 | LT | 1 | | | | |
| GNP 4-01 | 12 | 140+12.00 | 30 | RT | 1 | | | | |
| GNP 4-01 | 36 | 140+00.00 | 61 | LT | 1 | | | | |
| GNP 4-01 | 30 | 140+57.00 | 68 | RT | 1 | | | | |
| GNP 4-01 | 30 | 140+43.00 | 30 | RT | 1 | | | | |
| | TOTAL: | | | | | | | | |

| ITEM 603.63070415 (LF) | | | | | | | |
|---|-------------------------------------|--|--|--|--|--|--|
| PRECAST CONCRETE BOX CULVERT, 7.0 FOOT SPAN, 4.0 FOOT RISE, FILL HT > 24" | | | | | | | |
| FROM STATION | FROM STATION TO STATION LENGTH (FT) | | | | | | |
| 5+22.90 6+63.40 140.50 | | | | | | | |
| TOTAL: 141 | | | | | | | |

| ITEM 603.67000001 (SY) | | | | | | | |
|---|----------------|---------------|--------------|--|--|--|--|
| PRECAST CONCRETE WINGWALL UNITS FOR BOX CULVERTS | | | | | | | |
| LOCATION | LENGTH (LF) | H⊟GHT (FT) | AREA (SY) | | | | |
| SOUTHWEST WINGWALL | 10.00 | 11.33 | 13 | | | | |
| NORTHWEST WINGWALL 21.33 11.33 27 | | | | | | | |
| | | TOTAL: | 39 | | | | |

ALTERED BY: ON:

| ITEM 603.6001 (LF) | | | | | | | | |
|--|------------|--------|--------|----------------------------|-------|--|--|--|
| REINFORCED CONCRETE PIPE CLASS III, 12 INCH DIAMETER | | | | | | | | |
| FROM STATION | TO STATION | OFFSET | SIDE | : COMMENT | | | | |
| 139+74.00 | 139+96.00 | 38.00 | RT | TIE INTO PROPOSED WINGWALL | 22.00 | | | |
| _ | | | TOTAL: | | | | | |

| ITEM 603.051018 (LF) | | | | | | |
|---|--|--|--|--------|----|--|
| CORRUGATED STEEL PIPE (2-2/3"X1/2") CORRUGATIONS) 12 INCH, 18 GAUGE | | | | | | |
| FROM STATION | FROM STATION TO STATION OFFSET SIDE COMMENTS LENGTH (FT) | | | | | |
| 140+12.00 140+34.00 30.00 RT TIE INTO PROPOSED CULVERT | | | | | | |
| | | | | TOTAL: | 22 | |

ITEM 603.051616 (LF) **CORRUGATED STEEL PIPE (2-2/3"X1/2") CORRUGATIONS)** 30 INCH, 16 GAUGE **LENGTH** FROM STATION **TO STATION OFFSET** SIDE **COMMENTS** (FT) 140+33.00 140+57.00 TIE INTO PROPOSED VAULT 68.00 24.00 TOTAL: 24

| ITEM 603.051816 (LF) | | | | | | | |
|---|---|--|--|--------|----|--|--|
| CORRUGATED STEEL PIPE (2-2/3"X1/2") CORRUGATIONS) 36 INCH, 16 GAUGE | | | | | | | |
| FROM STATION | ROM STATION TO STATION OFFSET SIDE COMMENTS LENGTH | | | | | | |
| 139+68.00 | 139+68.00 140+00.00 61.00 LT TIE INTO PROPOSED WINGWALL 32.00 | | | | | | |
| | | | | TOTAL: | 32 | | |

| AS-BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTE | ED CONTRACT NUMBER |
|--|--|-------------------------|---------|----------|--|----------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | UTILITY QUALITY LEVEL D | | | C530075 | DDAWING NO MCT 4 04 |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 4-04 | DRAWING NO. MST 4-04 |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | | SHEET NO. |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. Department of Transportation | | | | | | |

PROJECT MANAGER R.F. SCHALLER

CHECK R.S. AMBROSE

TING P.J. MORELOCK JR.

CHECK R.S. AMBROSE

DESIGN P.J. MORELOCK JR.

WALLIX SEAT:

OU:

WALLIX SEAT:

ALTERED BY: ON:

FILE NAME = 581311.CPH_MST_4-05.dgn
DATE/TIME = 14-MAY-2021.10:07
USER = pmorelock

DESIGN SUPERVISOR R.F. SCHALLER

| ITEM 610.0501 (LB) | | | | | | | |
|--|-------------------------------|------|--|--|--|--|--|
| FERTILIZER | | | | | | | |
| LOCATION AREA (SF) FERTILIZER TYPE A* (1LB NITROGEN / 1000 SF) | | | | | | | |
| C530075 CULVERT | 2,669 | 2.67 | | | | | |
| C530075 NY RTE 277 | 3,576 | 3.58 | | | | | |
| S | 6.24 | | | | | | |
| 1 | 1 | | | | | | |
| TOTAL LE | S OF FERTILIZER (50 lb bags): | 50 | | | | | |

| ITEM 605.1701 (LF) | | | | | | | | |
|--|----------------|----------------|------|----------------|--|--|--|--|
| OPTIONAL UNDERDRAIN PIPE, 4 INCH DIAMETER | | | | | | | | |
| INLET STATION | OUTLET STATION | OUTLET TYPE | SIDE | LENGTH (FT) | | | | |
| 139+67.50 | 140+57.50 | | L | 90 | | | | |
| 139+67.50 | R | 90 | | | | | | |
| | TOTAL: 180 | | | | | | | |

| ITEM 608.0101 (CY) | | | | | | | | |
|---|----------------------------------|---|--|--------|------|------|------|--|
| CONCRETE SIDEWALKS AND DRIVEWAYS | | | | | | | | |
| FROM STATION TO STATION SIDE COMMENTS LENGTH WIDTH DEPTH QT | | | | | | | | |
| 139+25.00 | 140+30.00 | L | | 105.00 | 5.00 | 4.00 | 7.00 | |
| 139+95.00 | 139+95.00 140+85.00 R 90.00 5.00 | | | | | | | |
| TOTAL: | | | | | | | 13 | |

| ITEM 609.0401 (LF) | | | | | | | |
|--|-----------|------|----------|----------------|--|--|--|
| CAST-IN-PLACE CONCRETE CURB TYPE VF150 | | | | | | | |
| STATION | STATION | SIDE | COMMENTS | LENGTH (FT) | | | |
| 139+42.00 | 140+39.00 | L | | 97 | | | |
| 139+94.00 | 140+82.00 | R | | 88 | | | |
| | | | TOTAL: | 185 | | | |

| | ITEM 604.50 (LF) SPECIAL DRAINAGE STRUCTURE | | | | | | | |
|---------------|---|-----------|--------|------|-------------|---------------|----------------|--|
| PLAN SHEET | DRAINAGE NO. | STATION | OFFSET | SIDE | TG ELEV. | INV. ELEV. | LENGTH (FT) | |
| | | 140+51.50 | 47 | RT | 619.86 | 610.86 | 9.00 | |
| | | | | | | TOTAL: | 9 | |

| ITEM 605.1001 (CY) UNDERDRAIN FILTER, TYPE 2 | | | | | | | |
|--|------------|------|----------------|---------------|---------------|----------------|--|
| FROM STATION | TO STATION | SIDE | LENGTH (FT) | DEPTH (FT) | WIDTH (FT) | VOLUME (CY) | |
| 139+67.50 | 140+57.50 | L | 90.00 | 2.00 | 1.33 | 8.87 | |
| 139+67.50 | 140+57.50 | R | 90.00 | 2.00 | 1.33 | 8.87 | |
| | | | | | TOTAL: | 18 | |

| ALLER | | | | | | | | |
|--------|--|--|--|--|--|------------------|---|------------------------------|
| 짌 | | AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
| Ä. | | DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | d D 1 |
| SOR | | | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTILITY QUALITY LEVEL D | | | C530075 | DRAWING NO. MST 4-05 |
| ERVI | | | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 4-05 | |
| SUP | | | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | | SHEET NO. |
| DESIGN | | IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UTO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LISHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" | JNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCH ICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHI FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AN | HITECT, LANDSCAPE ARCHITECT, TECT, LANDSCAPE ARCHITECT, O ND A SPECIFIC DESCRIPTION OF | OR LAND SURVE R LAND SURVEY THE ALTERATION | YOR, OR N. | | Department of Transportation |

ALTERED BY: ON:

FILE NAME = 581311_CPH_MST_4-06.dgn DATE/TIME = 14-MAY-2021 10:07 H USER = pmorelock

| ITEM 619.0701 (SF) | | | | | | | |
|--------------------|-------------|-------------------------|-------|--|--|--|--|
| TE | MPORARY B | USINESS SIGNS | | | | | |
| STATION | SIDE/OFFSET | COMMENTS | SF | | | | |
| | NY R | TE 277 | • | | | | |
| 129+96.00 | 32FT RT | APPLETREE BUSINESS PARK | 9.00 | | | | |
| 131+19.00 | 36 FT LT | APPLETREE BUSINESS PARK | 9.00 | | | | |
| 138+89.00 | 12FT LT | APPLETREE BUSINESS PARK | 9.00 | | | | |
| | | TOTAL: | 27.00 | | | | |

| 619.111112 (EA) | | | | | | |
|--|---------------------------------------|--------------|--|--|--|--|
| (PVMS) STANDARD SIZE - LINE OR CHARACTER MATRIX (LED) NO OPTIONAL EQUIPMENT SPECIFIED, CELLULAR COMMUNICATIONS | | | | | | |
| STATION | COMMENTS | QTY. (EA) | | | | |
| | SITE 2: C530038 UNDER NY 93 | 2 | | | | |
| | SITE 4: C530075 UNDER NY 277 | 4 | | | | |
| | SITE 6: C540063 UNDER NY 62 | 2 | | | | |
| | SITE 1: C550004 UNDER NY 18 | | | | | |
| | SITE 3: CA00252 & C530138 UNDER I-990 | 2 | | | | |
| | SITE 5: C530008 UNDER US 20 | | | | | |
| | | | | | | |
| | SITES 7-12: SMALL CULVERTS | 4 | | | | |
| | TOTAL: | 14 | | | | |

| ITEM 610.1601 (SY) | | | | | | | |
|-------------------------------|-----------------|-------|--|--|--|--|--|
| TURF ESTABLISHMENT - ROADSIDE | | | | | | | |
| C530075 CULVERT | | | | | | | |
| CTATION | Т | URF | | | | | |
| STATION | (LF) | (SY) | | | | | |
| 5+21.90 | 39.24 | N/A | | | | | |
| 5+22.90 | 38.03 | 4.29 | | | | | |
| 5+28.90 | 29.21 | 22.41 | | | | | |
| 5+36.00 | 19.60 | 19.25 | | | | | |
| 5+45.55 | 13.81 | 17.73 | | | | | |
| 5+63.71 | 8.27 | 22.28 | | | | | |
| 5+85.20 | 13.71 | 26.24 | | | | | |
| 6+09.07 | 1.81 | 20.58 | | | | | |
| 6+27.24 | 7.68 | 9.58 | | | | | |
| 6+36.00 | 18.28 | 12.63 | | | | | |
| 6+61.40 | 46.81 | 91.85 | | | | | |
| 6+63.40 | 46.61 | 10.38 | | | | | |
| 6+66.90 | 57.20 | 20.19 | | | | | |
| 6+68.40 | 14.38 | 5.97 | | | | | |
| 6+70.89 | 16.44 | 4.26 | | | | | |
| 6+72.89 | 17.60 | 3.78 | | | | | |
| 6+78.18 | 0.00 | 5.17 | | | | | |
| 7+01.36 | 0.00 | 0.00 | | | | | |
| | SUBTOTALS: | 296.6 | | | | | |
| C53 | 30075 NY RTE 27 | 7 | | | | | |
| 139+42.00 | 12.30 | N/A | | | | | |
| 139+55.00 | 15.00 | 19.72 | | | | | |
| 139+61.00 | 19.50 | 11.50 | | | | | |
| 139+69.00 | 43.60 | 28.04 | | | | | |
| 139+77.00 | 50.20 | 41.69 | | | | | |
| 139+90.00 | 44.90 | 68.68 | | | | | |
| 139+97.00 | 34.80 | 30.99 | | | | | |
| 140+15.50 | 18.71 | 55.00 | | | | | |
| 140+52.00 | 20.00 | 78.50 | | | | | |
| 140+82.00 | 17.90 | 63.17 | | | | | |
| | SUBTOTALS: | 397.3 | | | | | |
| | TOTAL: | 694 | | | | | |

| TOPSOIL - ROADWAY C530075 NY RTE 277 TOPSOIL STATION (SF) (CY) 139+42.00 4.10 N/A 139+55.00 4.98 2.19 139+61.00 6.49 1.27 139+69.00 14.52 3.11 139+77.00 16.75 4.63 139+90.00 14.82 7.60 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A 5+22.90 12.59 0.47 | |
|--|--|
| TOPSOIL STATION (SF) (CY) 139+42.00 4.10 N/A 139+55.00 4.98 2.19 139+61.00 6.49 1.27 139+69.00 14.52 3.11 139+77.00 16.75 4.63 139+90.00 14.82 7.60 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| STATION (SF) (CY) 139+42.00 4.10 N/A 139+55.00 4.98 2.19 139+61.00 6.49 1.27 139+69.00 14.52 3.11 139+77.00 16.75 4.63 139+90.00 14.82 7.60 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| (SF) (CY) 139+42.00 4.10 N/A 139+55.00 4.98 2.19 139+61.00 6.49 1.27 139+69.00 14.52 3.11 139+77.00 16.75 4.63 139+90.00 14.82 7.60 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| 139+55.00 4.98 2.19 139+61.00 6.49 1.27 139+69.00 14.52 3.11 139+77.00 16.75 4.63 139+90.00 14.82 7.60 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| 139+61.00 6.49 1.27 139+69.00 14.52 3.11 139+77.00 16.75 4.63 139+90.00 14.82 7.60 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| 139+69.00 14.52 3.11 139+77.00 16.75 4.63 139+90.00 14.82 7.60 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| 139+77.00 16.75 4.63 139+90.00 14.82 7.60 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| 139+90.00 14.82 7.60 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| 139+97.00 11.48 3.41 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| 140+15.50 6.24 6.07 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| 140+52.00 6.65 8.71 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| 140+82.00 5.97 7.01 SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| SUBTOTALS 92.0 44.0 C530075 CULVERT 5+21.90 13.00 N/A | |
| C530075 CULVERT 5+21.90 13.00 N/A | |
| 5+21.90 13.00 N/A | |
| | |
| 5+22.90 12.59 0.47 | |
| | |
| 5+28.90 9.74 2.48 | |
| 5+36.00 6.43 2.13 | |
| 5+45.55 4.60 1.95 | |
| 5+63.71 2.76 2.48 | |
| 5+85.20 4.47 2.88 | |
| 6+09.07 0.60 2.24 | |
| 6+27.24 2.48 1.04 | |
| 6+36.00 6.02 1.38 | |
| 6+61.40 15.38 10.07 | |
| 6+63.40 15.31 1.14 | |
| 6+66.90 18.85 2.21 | |
| 6+68.40 4.79 0.66 | |
| 6+70.89 5.48 0.47 | |
| 6+72.89 5.57 0.41 | |
| 6+78.18 0.00 0.55 | |
| SUBTOTALS 128.1 32.5 | |
| TOTALS 220.1 77.0 | |

| AS-BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|-----------------------------|--|-------------------------|---------|----------|---|---------------------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | † D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTICITY QUALITY CEVEL D | | | C530075 | DELIVERY AND ADDRESS ASSESSMENT |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 4-06 | DRAWING NO. MST 4-06 |
| | COUNTIES: NIAGARA AND ERIE REGIO | N: 05 | | | | SHEET NO. |
| | | | | | | |

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK STATE OF OPPORTUNITY.

Department of Transportation

ALTERED BY: ON:

| | ITEM 619.04 (EA) | | | | | | | |
|-----------|--|----------------|---------------------------------------|--------------|--|--|--|--|
| T | TYPE III CONSTRUCTION BARRICADES W/ LIGHTS | | | | | | | |
| STATION | SIDE/OFFSET | LENGTH (LF) | WZTC COMMENTS | QTY. (EA) | | | | |
| | | NY R | TE 277 STAGE 1 WZTC | | | | | |
| 138+33.00 | 47 FT RT | 64 | APPLETREE BUSINESS PARK DWY CLOSED | 16 | | | | |
| 138+33.00 | 240 FT RT | 64 | APPLETREE BUSINESS PARK ROAD CLOSED | 16 | | | | |
| 138+77.00 | 20 FT LT | 40 | NY RTE 277 SB LANE CLOSED | 10 | | | | |
| 140+90.00 | 36 FT LT | 8 | SIDEWALK CLOSED | 2 | | | | |
| 140+98.00 | 33 FT LT | 8 | PEDESTRIAN DETOUR | 2 | | | | |
| 141+07.00 | LT | 40 | NY RTE 277 SB LANE @ BINK ST. CLOSED | 10 | | | | |
| 141+54.00 | LT | 36 | NY RTE 277 SB LANE @ BINK ST. CLOSED | 9 | | | | |
| 143+37.00 | 42 FT LT | 32 | DWY CLOSED | 8 | | | | |
| 143+90.00 | 42 FT LT | 20 | DWY CLOSED | 5 | | | | |
| 145+38.00 | 43 FT LT | 28 | DWY CLOSED | 7 | | | | |
| 147+17.00 | 44 FT LT | 32 | DWY CLOSED | 8 | | | | |
| 147+65.00 | 19 FT LT | 16 | NY RTE 277 SB LANE @ VERN LANE CLOSED | 4 | | | | |
| 149+21.00 | 43 FT LT | 32 | DWY CLOSED | 8 | | | | |
| | , | | STAGE 2 WZTC | | | | | |
| 127+09.00 | 44 FT RT | 24 | DWY CLOSED | 6 | | | | |
| 129+34.00 | 45 FT RT | 44 | DWY CLOSED | 11 | | | | |
| 131+08.00 | 19 FT RT | 16 | NY RTE 277 NB LANE CLOSED | 4 | | | | |
| 133+76.00 | 45 FT RT | 32 | DWY CLOSED | 8 | | | | |
| 138+15.00 | 8 FT RT | 24 | NY RTE 277 NB LANE CLOSED | 6 | | | | |
| 138+87.00 | 39 FT RT | 8 | SIDEWALK CLOSED | 2 | | | | |
| 142+35.00 | 11 FT RT | 20 | NY RTE 277 NB LANE CLOSED | 5 | | | | |
| 143+19.00 | 35 FT RT | 8 | SIDEWALK CLOSED | 2 | | | | |
| 143+32.00 | 44 FT RT | 24 | DWY CLOSED | 6 | | | | |
| 145+79.00 | 35 FT RT | 8 | SIDEWALK CLOSED | 2 | | | | |
| 147+41.00 | 39 FT RT | 8 | SIDEWALK CLOSED | 2 | | | | |
| 150+40.00 | 44 FT RT | 24 | DWY CLOSED | 6 | | | | |
| | | | TOTAL: | 165 | | | | |

| ITEM 619.1716 (LF) | | | | | | | |
|---|-------------------------|----------|----------------|--|--|--|--|
| TEMPORARY POSITIVE BARRIER, CATEGORY 6 (PINNING REQUIRED) | | | | | | | |
| FROM STATION TO STATION | | COMMENTS | LENGTH (FT) | | | | |
| | NY RTE 277 STAGE 1 WTZC | | | | | | |
| 139+56.00 | 141+06.00 | | 150.00 | | | | |
| TOTAL: | | | | | | | |

| ITEM 619.17060008 (LF) | | | | | | |
|----------------------------------|---------------|------------|--------|--|--|--|
| LINEAR DELINEATION SYSTEM | | | | | | |
| FROM STATION TO STATION COMMENTS | | | | | | |
| | NY RTE 277 ST | AGE 1 WZTC | | | | |
| 138+77.00 | 141+06.00 | | 229.00 | | | |
| NY RTE 277 STAGE 2 WZTC | | | | | | |
| 138+17.00 | 142+36.00 | | 419.00 | | | |
| | | TOTAL: | 648.00 | | | |

| | ITEM 619. | 1711 (LF) | |
|--|---------------|------------|----------------|
| TEMPORARY POSITIVE BARRIER - CATEGORY 1 (PINNING PROHIBITED) | | | |
| | (PIININING PR | Опівії Ев) | |
| FROM STATION | TO STATION | COMMENTS | LENGTH (FT) |
| | NY RTE 277 ST | AGE 1 WZTC | |
| 138+76.00 | 139+56.00 | | 80.00 |
| | NY RTE 277 ST | AGE 2 WZTC | , |
| 138+17.00 | 142+37.00 | | 420.00 |
| | | TOTAL: | 500.00 |

| AS-BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|---|--|------------------------------|----------------|----------|---|------------------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | † D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | OTILITI WOMETTI LEVEL D | | | C530075 | DRAWING NO. MST 4-07 |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 4-07 | |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | _ | SHEET NO. |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICHARL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" | ICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHI. | TECT, LANDSCAPE ARCHITECT, 0 | R LAND SURVEYO | ₹ | N Side | Department of Transportation |

| | ı |
|---|---|
| _ | T |
| | |

| ITEM 619 |).0901 (I | LF) |
|-----------------|-----------|-----|
|-----------------|-----------|-----|

TEMPORARY PAVEMENT MARKINGS, STRIPES, TRAFFIC PAINT

| FROM STATION | TO STATION | OFFSET/SIDE | LENGTH | PAY | PAID |
|--------------|------------------|---------------------|--------------|----------------|-------------|
| TROW STATION | TOSTATION | OI I OL 1/OIDL | (FT) | FACTOR | LENGTH (LF) |
| | | NY ROUTE 27 | 7 | | |
| | | Stage 1 WZTC | | | |
| | 4" White | Edge Line = (4' | '/4") = 1.00 | | |
| 135+30.00 | 137+92.00 | 6FT LT | 262 | 1.00 | 262 |
| 138+48.00 | 141+06.00 | 9FT LT | 279 | 1.00 | 279 |
| 141+54.00 | 142+38.00 | 7FT LT | 84 | 1.00 | 84 |
| 142+88.00 | 144+58.00 | 9FT LT | 170 | 1.00 | 170 |
| 145+02.00 | 145+97.00 | 10FT LT | 95 | 1.00 | 95 |
| 146+35.00 | 146+55.00 | 10FT LT | 20 | 1.00 | 20 |
| 146+85.00 | 147+48.00 | 10FT LT | 63 | 1.00 | 63 |
| 148+60.00 | 149+68.00 | 23FT LT | 108 | 1.00 | 108 |
| 150+18.00 | 150+75.00 | 28FT LT | 57 | 1.00 | 57 |
| 151+20.00 | 152+67.00 | 29FT LT | 147 | 1.00 | 147 |
| | 4" Yellow | / Edge Line = (4 | "/4") = 1.00 | | |
| 130+89.00 | 137+65.00 | LT | 676 | 1.00 | 676 |
| 130+89.00 | 137+65.00 | RT | 676 | 1.00 | 676 |
| 143+82.00 | 147+45.00 | RT | 363 | 1.00 | 363 |
| 143+82.00 | 147+45.00 | LT | 363 | 1.00 | 363 |
| | 4" Yellow Full B | sarrier = (4"/4") * | 2 (Stripes) | = 2.00 | |
| 138+76.00 | 140+99.00 | | 223 | 2.00 | 446 |
| 141+54.00 | 143+82.00 | | 228 | 2.00 | 456 |
| 4" Yellow | Dotted Extension | n Line = 2 LF w/ | 4 LF Space | es = (2'/6') = | = 0.33 |
| 138+03.00 | 138+77.00 | | 74 | 0.33 | 24 |
| 140+99.00 | 141+54.00 | | 55 | 0.33 | 18 |
| | | | | | |

ITEM 619.0901 (LF)

TEMPORARY PAVEMENT MARKINGS, STRIPES, **TRAFFIC PAINT**

| FROM STATION | TO STATION | OFFSET/SIDE | LENGTH | | PAID |
|--------------|------------------|--------------------|--------------|--------|------------|
| | | | (FT) | FACTOR | LENGTH (LF |
| | | NY ROUTE 27 | | | |
| | | Stage 2 WZTC | | | |
| | 4" White | Edge Line = (4' | '/4") = 1.00 | | |
| 126+20.00 | 126+53.00 | 29FT RT | 33 | 1.00 | 33 |
| 126+89.00 | 127+44.00 | 26FT RT | 55 | 1.00 | 55 |
| 128+10.00 | 128+47.00 | 22FT RT | 37 | 1.00 | 37 |
| 128+99.00 | 129+95.00 | 17FT RT | 96 | 1.00 | 96 |
| 130+74.00 | 137+92.00 | 9FT RT | 750 | 1.00 | 750 |
| 138+11.00 | 144+60.00 | 9FT RT | 663 | 1.00 | 663 |
| 142+00.00 | 149+42.00 | 37FT RT | 742 | 1.00 | 742 |
| | 4" Yellow | / Edge Line = (4 | "/4") = 1.00 | | |
| 132+86.00 | 135+20.00 | LT | 235 | 1.00 | 235 |
| 132+86.00 | 135+20.00 | RT | 233 | 1.00 | 233 |
| 143+56.00 | 147+47.00 | LT | 391 | 1.00 | 391 |
| 143+56.00 | 147+47.00 | RT | 393 | 1.00 | 393 |
| 148+60.00 | 149+91.00 | LT | 131 | 1.00 | 131 |
| 148+60.00 | 149+91.00 | RT | 133 | 1.00 | 133 |
| 149+90.00 | 150+71.00 | LT | 83 | 1.00 | 83 |
| 149+90.00 | 150+71.00 | RT | 81 | 1.00 | 81 |
| 151+21.00 | 154+81.00 | LT | 360 | 1.00 | 360 |
| 151+21.00 | 154+81.00 | RT | 362 | 1.00 | 362 |
| • | 4" Yellow Full B | arrier = (4"/4") * | 2 (Stripes) | = 2.00 | |
| 131+08.00 | 132+39.00 | | 131 | 2.00 | 262 |
| 135+20.00 | 137+93.00 | | 273 | 2.00 | 546 |
| 138+82.00 | 141+08.00 | | 226 | 2.00 | 452 |
| 141+51.00 | 143+56.00 | | 205 | 2.00 | 410 |
| 149+59.00 | 150+71.00 | | 116 | 2.00 | 232 |
| | | | | TOTAL: | 10,988 |

| ž | | | |
|--------------------------|--------------------|--------------------|------------|
| JOB MANA | AFFIX SEAL: ON: | ALTERED BY: ON: | |
| SUPERVISOR R.F. SCHALLER | | | AS- DES |

| ESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS |
|----------------------------|--|
| | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, |
| | WEST SENECA, ORCHARD PARK AND EDEN |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 |
| | |

| PIN 5813.11 | BRIDGE |
|-------------------------|--------|
| JTILITY QUALITY LEVEL D | |

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED C530075 MISCELLANEOUS TABLE 4-08

CONTRACT NUMBER DRAWING NO. MST 4-08 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



| ITEM 620.05 (CY) | | | |
|------------------|---------------|--------|--|
| STONE | FILLING - | HEAVY | |
| С | 530075 CULVER | RT | |
| | STON | E FILL | |
| STATION | (SF) | (CY) | |
| 6+68.40 | 69.31 | N/A | |
| 6+70.89 | 81.47 | 6.95 | |
| 6+72.89 | 89.18 | 6.32 | |
| 6+78.18 | 131.28 | 21.60 | |
| 7+01.36 | 116.15 | 106.21 | |
| TOTALS | 487.4 | 141 | |

ITEM 623.12 (CY) CRUSHED STONE FILL

| C530075 CULVERT | | |
|-----------------|-------|---------|
| OTATION. | CRUS | H STONE |
| STATION | (SF) | (CY) |
| 5+21.90 | 7.52 | N/A |
| 5+22.90 | 14.10 | 0.40 |
| 5+28.90 | 14.33 | 3.16 |
| 5+36.00 | 14.33 | 3.77 |
| 5+45.55 | 14.33 | 5.07 |
| 5+63.71 | 14.33 | 9.64 |
| 5+85.20 | 14.33 | 11.41 |
| 6+09.07 | 14.33 | 12.67 |
| 6+27.24 | 14.33 | 9.64 |
| 6+36.00 | 14.33 | 4.65 |
| 6+61.40 | 14.33 | 13.48 |
| 6+63.40 | 14.33 | 1.06 |
| 6+66.90 | 14.33 | 1.86 |
| TOTALS: | 179.3 | 77 |

ALTERED BY: ON:

| ITEM 620.0801 (CY) |
|--------------------|
| BEDDING MATERIAL, |
| TYPE 1 |
| C530075 CULVERT |

| C530075 CULVERT | | | | | | | | | |
|---|-------|-------|--|--|--|--|--|--|--|
| | BED | DDING | | | | | | | |
| STATION 6+68.40 6+70.89 6+72.89 6+78.18 7+01.36 | (SF) | (CY) | | | | | | | |
| 6+68.40 | 12.86 | N/A | | | | | | | |
| 6+70.89 | 13.76 | 1.23 | | | | | | | |
| 6+72.89 | 15.34 | 1.08 | | | | | | | |
| 6+78.18 | 24.31 | 3.88 | | | | | | | |
| 7+01.36 | 21.34 | 19.60 | | | | | | | |
| TOTALS: | 87.6 | 26 | | | | | | | |
| | | | | | | | | | |

| ITEM 62 | 20.0802 | 2 (CY) | | | | | | | | |
|-------------------|-----------------|--------|--|--|--|--|--|--|--|--|
| BEDDING MATERIAL, | | | | | | | | | | |
| TYPE 2 | | | | | | | | | | |
| C5300 | C530075 CULVERT | | | | | | | | | |
| STATION | BED | DDING | | | | | | | | |
| | (SF) | (CY) | | | | | | | | |
| 6+68.40 | 12.86 | N/A | | | | | | | | |
| 6+70.89 | 13.76 | 1.23 | | | | | | | | |
| 6+72.89 | 15.34 | 1.08 | | | | | | | | |
| 6+78.18 | 24.31 | 3.88 | | | | | | | | |
| 7+01.36 | 21.34 | 19.60 | | | | | | | | |
| TOTALS: | 87.6 | 26 | | | | | | | | |

| ITEM 627.5 | 0140008 | (LF) | |
|----------------------|------------|---------------------------------------|----------------|
| CUTTING | PAVEME | NT | |
| STATION | WIDTH (FT) | # OF CUTS | LENGTH (FT) |
| 139+67.50 | 88 | 1 | 88 |
| 139+67.5 to 140+57.5 | 139+67.50 | 90 | |
| 140+57.50 | 80 | AVEMENT IDTH (FT) # OF CUTS (FT) 88 | 80 |
| | | | 258 |

| | 621.03 (LF) | | | | | | | | | | | | | |
|----------------------------------|-------------|--------|------|-----------|----------------|--|--|--|--|--|--|--|--|--|
| CLEANING CLOSED DRAINAGE SYSTEMS | | | | | | | | | | | | | | |
| STRUCTURE NUMBER | STATION | OFFSET | SIDE | COMMENTS | LENGTH (FT) | | | | | | | | | |
| DS 4-1 | 138+79.30 | 30 | LT | - | - | | | | | | | | | |
| DS 4-2 | 138+98.50 | 30 | RT | 18" RCMP | 60 | | | | | | | | | |
| C530075 | 140+12.50 | 30 | RT | 12" RCMP | 114 | | | | | | | | | |
| DS 4-6 | 141+92.00 | 30 | RT | 30" SICPP | 127 | | | | | | | | | |
| DS 4-3 | 140+40.00 | 30 | LT | - | - | | | | | | | | | |
| DS 4-4 | 140+67.00 | 30 | LT | 12" RCMP | 25 | | | | | | | | | |
| DS 4-5 | 141+92.00 | 30 | LT | 36" RCMP | 124 | | | | | | | | | |
| DS 4-6 | 141+92.00 | 30 | RT | 15" RCMP | 60 | | | | | | | | | |
| | | | _ | TOTAL: | 510 | | | | | | | | | |

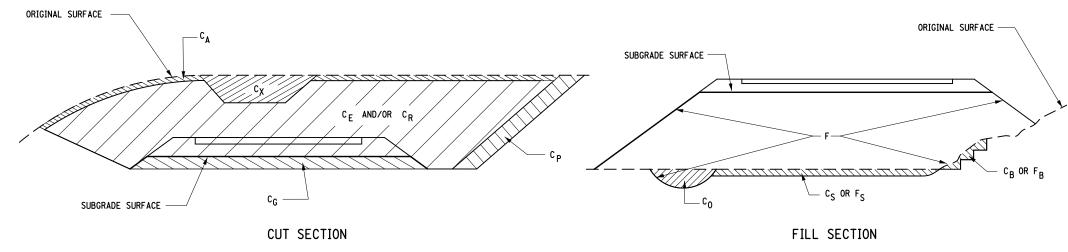
| | 621.04 (EA) | | | | | | | | | | | | |
|------------------------------|-------------|--------|------|----------|--------------|--|--|--|--|--|--|--|--|
| CLEANING DRAINAGE STRUCTURES | | | | | | | | | | | | | |
| STRUCTURE NUMBER | STATION | OFFSET | SIDE | COMMENTS | QTY. (EA) | | | | | | | | |
| DS 4-1 | 138+79.30 | 30 | LT | | 1 | | | | | | | | |
| DS 4-2 | 138+98.50 | 30 | RT | | 1 | | | | | | | | |
| DS 4-3 | 140+40.00 | 30 | LT | | 1 | | | | | | | | |
| DS 4-4 | 140+67.00 | 30 | LT | | 1 | | | | | | | | |
| DS 4-5 | 141+92.00 | 30 | LT | | 1 | | | | | | | | |
| DS 4-6 | 141+92.00 | 30 | RT | | 1 | | | | | | | | |
| | | | | TOTAL: | 6 | | | | | | | | |

| 619 | 9.1719 (EA) | | | | | | | |
|---|------------------|--------------|--|--|--|--|--|--|
| WARNING LIGHTS ON TEMPORARY POSITIVE BARRIERS | | | | | | | | |
| FROM/TO STATION | COMMENTS | QTY. (EA) | | | | | | |
| NY RTE | 277 STAGE 1 WZTC | | | | | | | |
| STA. 138+77 TO STA. 141+06 | | 9 | | | | | | |
| NY RTE | 277 STAGE 2 WZTC | | | | | | | |
| STA. 138+17 TO STA. 142+36 | | 19 | | | | | | |
| | TOTAL: | 28 | | | | | | |

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NO | IOTED | CONTRACT NUMBER |
|---|---|--------------------------------|-----------------|----------|--|-------|------------------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | | D |
| DESCRIPTION OF ALTERATIONS: IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE A TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | UNICITY QUALITY LEVEL D | | | C530075 | ŀ | |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 4-09 | | DRAWING NO. MST 4-09 |
| | COUNTIES: NIAGARA AND ERIE REGION: 0 | 5 | | | | | SHEET NO. |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A L SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" | ICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARC | HITECT, LANDSCAPE ARCHITECT, (| OR LAND SURVEYO | R | | | Department of Transportation |

| SL (ITEM | JMMARY 0 S 203.02 | F EARTH AND 203 | WORK 3.03 ONL | Y) | |
|---------------------|----------------------|--------------------|------------------|----------------|----------------|
| SOURCE | 1 | EXCAVATION | N | ITEM 203.02 | ITEM 203.03 |
| Sounce | TE | c _R | T _U | С _Т | F _T |
| C530075 CULVERT | | | | | 658.0 |
| C530075 LT WINGWALL | | | | | 566.0 |
| | | | | | |
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| | | | | | |
| | | | | | |
| TOTALS | | | | | 1224.0 |

| SUMMARY OF | TRENCH AND (ITEM 206.02 | CULVERT EX | CAVATION | |
|--|---|------------|----------|--|
| SOURCE | EXCA | /ATION | ITEM | |
| SOURCE | ROCK | NON-ROCK | 206.0201 | |
| C530075 NY RTE 277 | | | 639.8 | |
| C530075 CULVERT | | | 1871.3 | |
| C530075 LT WINGWALL | | | 608.4 | |
| (ITEM 206.0201 ONLY) SOURCE ROCK NON-ROCK C530075 NY RTE 277 C530075 CULVERT C530075 LT WINGWALL (ITEM 206.0201 ONLY) EXCAVATION ITEM 206.0201 1871.3 | | | | |
| | | | | |
| C530075 NY RTE 277 C530075 CULVERT | | | | |
| | (ITEM 206.0201 ONLY) SOURCE EXCAVATION ITEM 206.0201 | | | |
| | | | | |
| SOURCE ROCK NON-ROCK 206.0201 C530075 NY RTE 277 C530075 CULVERT 1871.3 | | | | |
| | | | | |
| | | | | |
| | | | | |
| TOTALS | | | 3119.0 | |



DEFINITIONS:

 $\boldsymbol{c}_{\boldsymbol{B}}$ - excavation for required benching, (both longitudinal and transverse).

 $\mathbf{C}_{\mathbf{G}}$ - EXCAVATION FOR SUBGRADE IMPROVEMENT.

 $C_{\mathbf{P}}$ - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.

 $c_{
m E}$ - Portion of cut assumed to be earth suitable for embankment construction, excluding $c_{
m G}$ and $c_{
m P}$.

 T_E - $(C_B + C_G + C_P + C_E)$ Total Earth excavation assumed suitable for embankment construction.

 $\boldsymbol{c_{A}}$ - excavation of topsoil (unsuitable material) in cut.

 ${\tt C}_{\tt S}$ - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.

 C_X - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP

 ${\tt C_0}$ - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP

 T_U - $(C_A$ + C_S + C_X + C_0) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.

 \boldsymbol{c}_{R} - Portion of cut assumed to be rock, including \boldsymbol{c}_{G} if applicable.

 $C_T - (T_E + T_U + C_R)$ TOTAL EXCAVATION.

DEFINITIONS:

 ${\sf F}_{\sf R}$ - FILL REQUIRED TO REPLACE BENCHES.

 $\boldsymbol{F_{S}}$ - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.

F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.

 F_T - $(F_B + F_S + F)$ TOTAL FILL REQUIRED.

 $\rm T_A$ - (T_E \times F_E + C $_{\rm R}\times$ F_R) THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.

F_E - SHRINKAGE FACTOR FOR EARTH

 $\mathbf{F}_{\mathbf{R}}$ - SWELL FACTOR FOR ROCK

NOTES:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.

203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL

203.03 EMBANKMENT IN PLACE

206.0201 TRENCH AND CULVERT EXCAVATION

| DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS NY RTES 18 62 93 277 US RTE 20 & I-990 | PIN 5813.11 | BRIDGES | CULVERTS C550004 | ALL DIMENSIONS IN yd3 UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|---|--|-------------------------|---------|---------------------|--|----------------------|
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | UTILITY QUALITY LEVEL D | | | | |
| DESCRIPTION OF ALTERATIONS: NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA, ORCHARD PARK AND EDEN UTILITY QUALITY LEVEL D C5300034 C30038 C530038 C530075 C530075 C530008 | | | | | | |
| | | | | | N ST OPI | ATE OF Department of |

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| | |

FILE NAME = 581311_CPH_ESS_4-02.dgn DATE/TIME = 14-MAY-2021 10:08 USER = pmorelock + DESIGN SUPERVISOR <u>S.S. VAIDYA</u>

| UBDIVISION NO. | LOCATION | | Sul | TABLE EXCAVA | ATION | | ROCK | | UNSUITABLE EXCAVATION | | | | UNSUITABLE EXCAVATION | | | | EXCAVATION | EMBANKMENT | | | |
|----------------|----------------------|----|----------------|--------------|----------------|----------------|----------------|----------------|-----------------------|----------------|----------------|----|-----------------------|----|----------------|-------|----------------|------------|--|--|--|
| NO. | (STATION TO STATION) | СВ | c _G | CP | c _E | Τ _E | c _R | C _A | cs | c _X | c _o | TU | СТ | FB | F _S | F | F _T | | | | |
| | C530075 NY RTE 277 | | | | 575.9 | | | | 41.9 | | | | 639.8 | | | | | | | | |
| | C530075 CULVERT | | | | 1609.5 | | | | 43.4 | 218.4 | | | 1871.3 | | | 657.9 | 657. | | | | |
| | C530075 LT WINGWALL | | | | 608.4 | | | | | | | | 608.4 | | | 565.7 | 565. | | | | |
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| | TOTALS | | | | 2815.7 | | | | 85.3 | 218.4 | | | 3119.0 | | | | 1224. | | | | |

ROCK

SUITABLE EXCAVATION

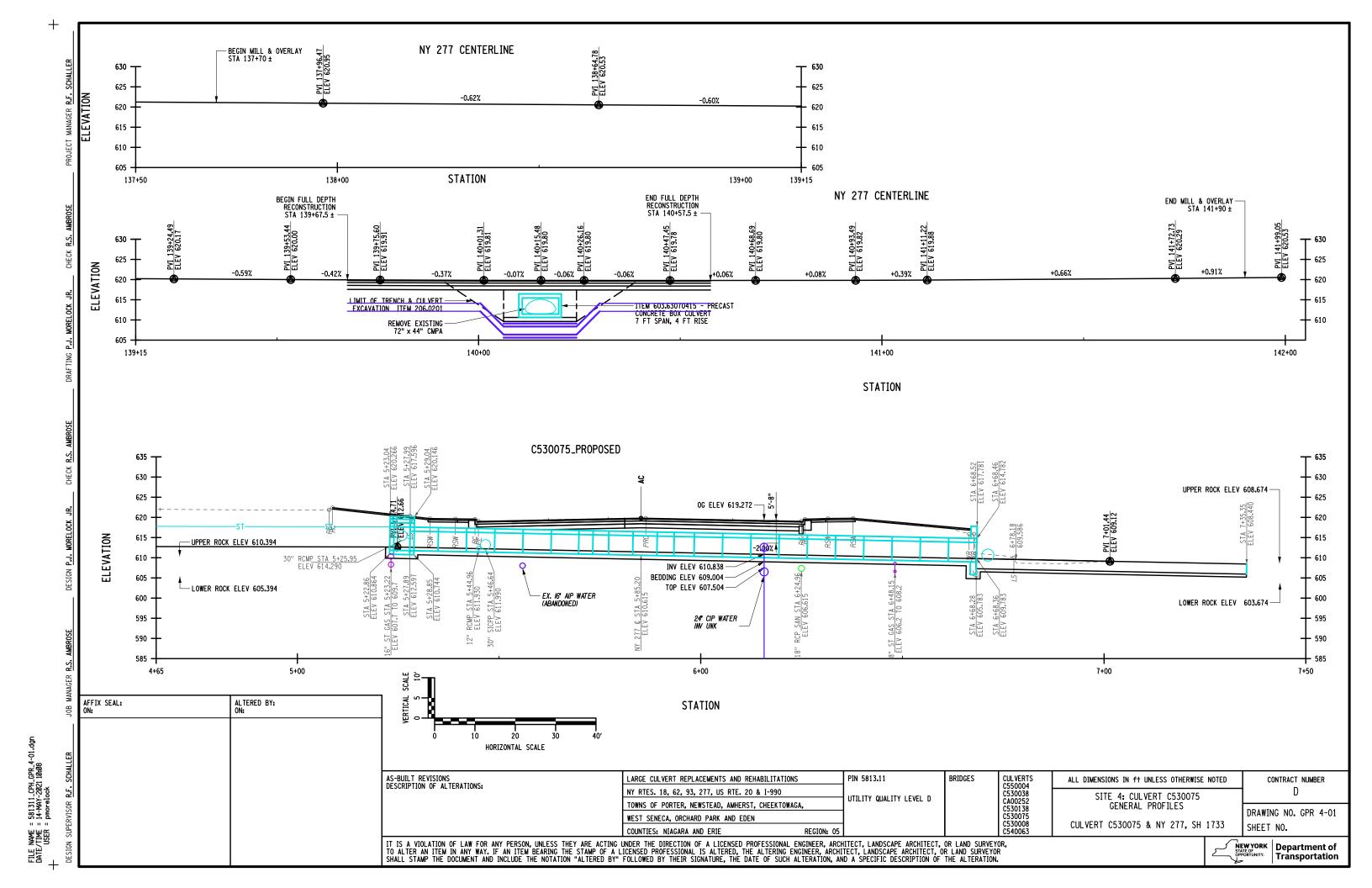
FOR DEFINITIONS AND NOTES SEE DWG. ES-1

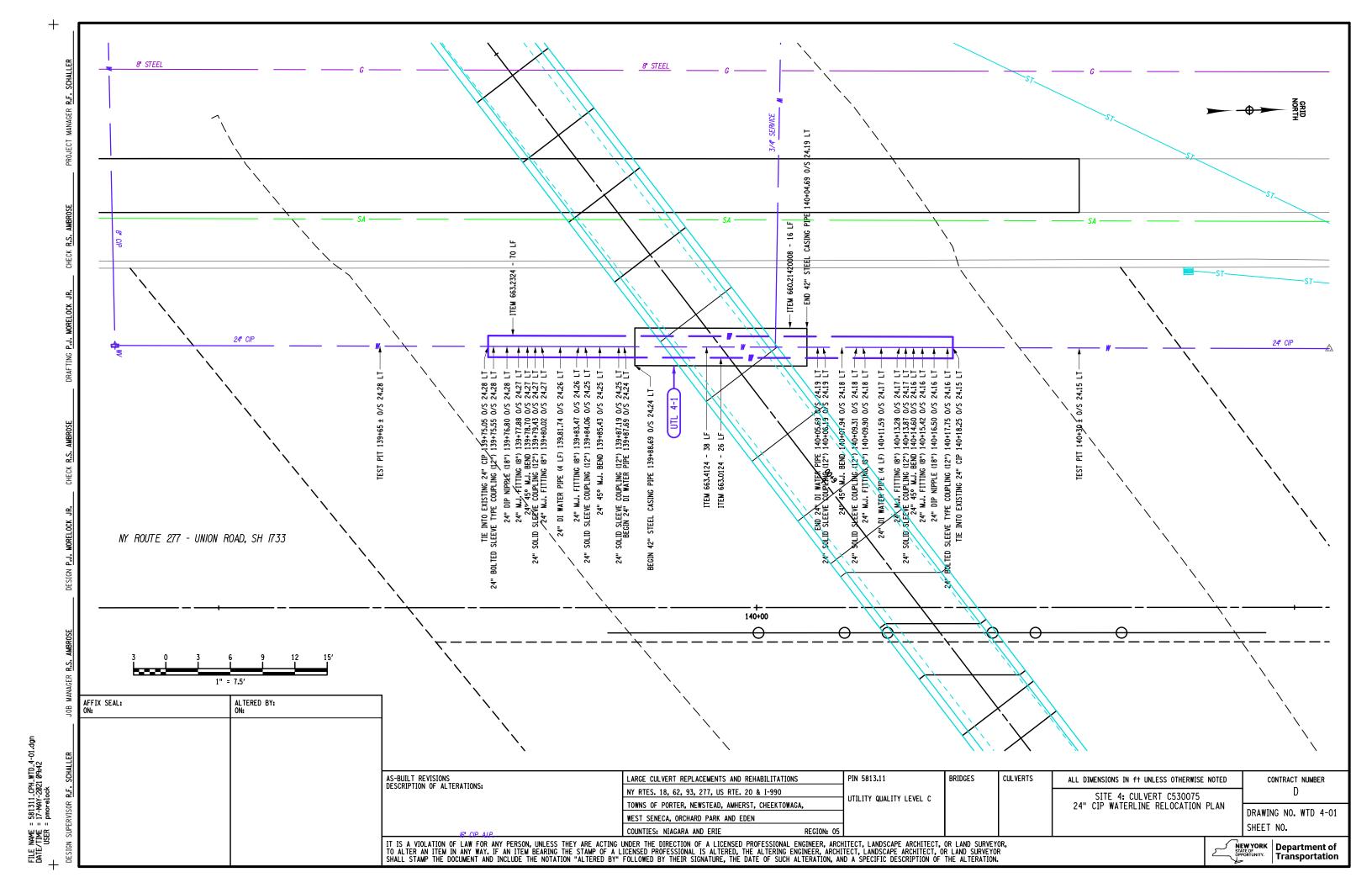
| | DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | 1 | BRIDGES CULVERTS C550004 | ALL DIMENSIONS IN yd3 UNLESS OTHERWISE NOTED | CONTRACT NUMBER | |
|--|-----------------------------|--|---|--------------------------|--|------------------------------------|------------------------------|
| | | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | | | C530038 CA00252 C530138 | EARTHWORK SUMMARY SHEET C530075 |] D |
| | | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | | | | | DRAWING NO. ESS 4-02 |
| | | WEST SENECA, ORCHARD PARK AND EDEN | | | C530075 C530008 | | |
| | | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | C540063 | | SHEET NO. |
| | | | | | | N 50 | Department of Transportation |

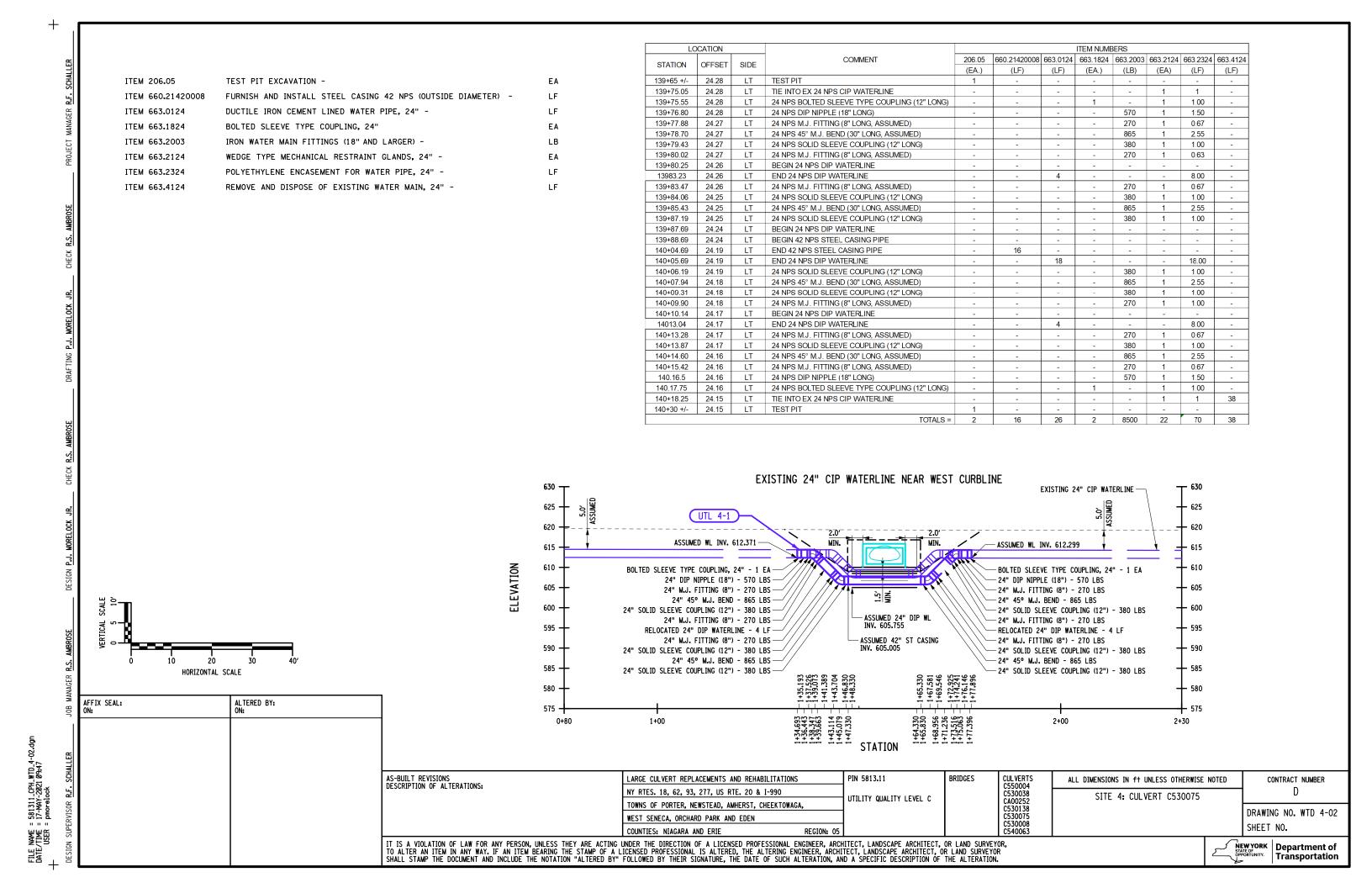
UNSUITABLE EXCAVATION

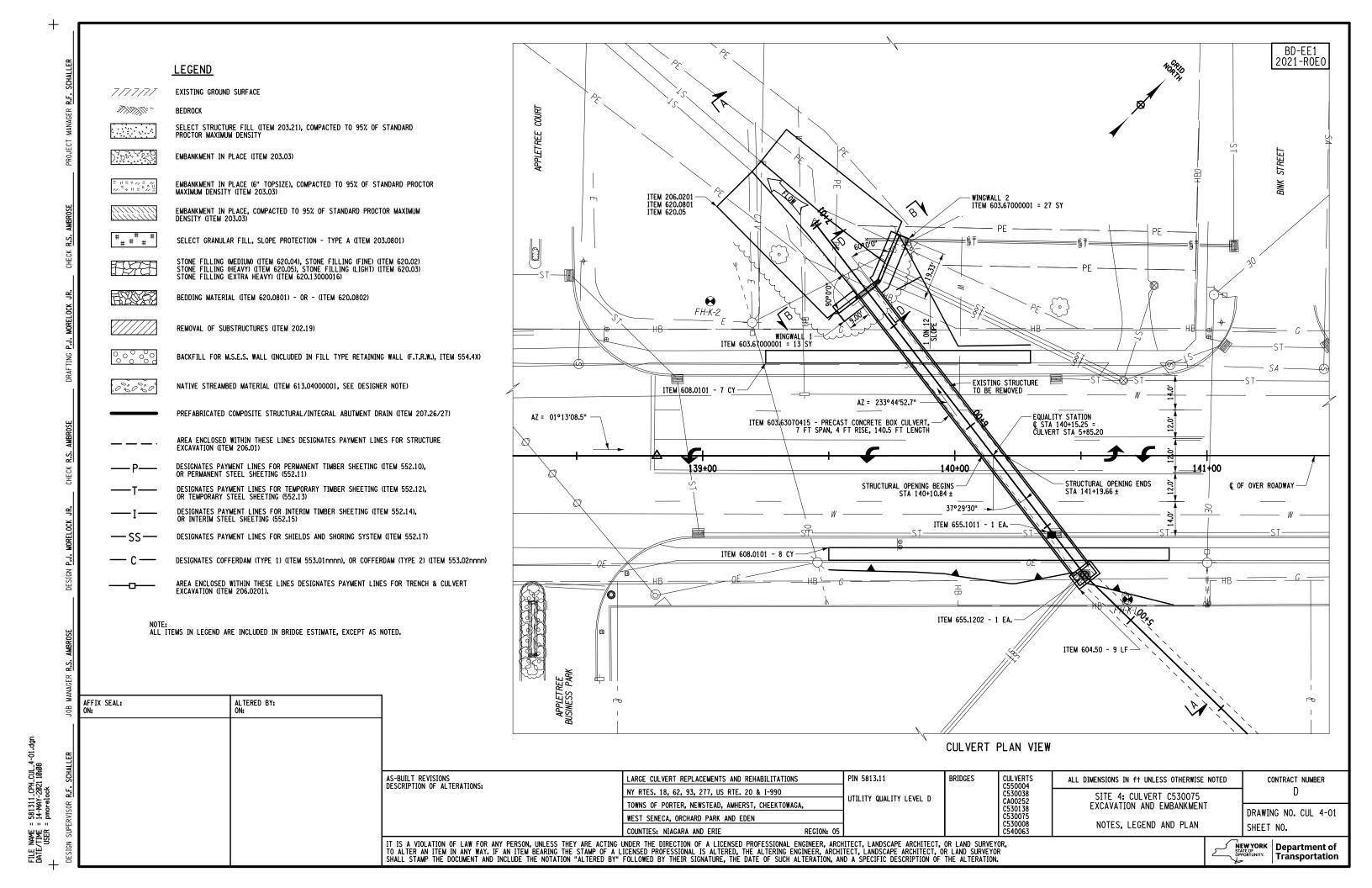
TOTAL EXCAVATION

EMBANKMENT









| GEOTECHNICAL WINGWALL FOOTING DESIGN DATA | | | | |
|--|---|--|--|--|
| SUBSTRUCTURE | MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE (kips/ft²) | MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE (kips/ft²) | NOMINAL COEFFICIENT OF FRICTION FOR SLIDING | |
| OUTLET WW FTGS 1 & 2 | 100 | 30 | 0.57 | |

- 1. FOR THE SLIDING AND ECCENTRICITY ANALYSES, ASSUME A GROUND WATER ELEVATION OF 614 FEET.
- 2. FOR THE BEARING ANALYSES, ASSUME A GROUNDWATER ELEVATION OF 614 FEET.
- 3. USE SUBMERGED UNIT WEIGHTS BELOW THE GROUNDWATER ELEVATIONS PROVIDED.
- 4. ASSUME A SURCHARGE LOAD OF 250 POUNDS PER SQUARE FOOT.

| WINGWALL DATA | | | | | |
|---------------|-------------|-------------|-------------|---------------|--|
| LOCATION | ELEVATION A | ELEVATION B | ELEVATION C | DIMENSION "X" | |
| WINGWALL 1 | 617.112 | 617.112 | 605.783 | 10.0 | |
| WINGWALL 2 | 617.112 | 617.112 | 605.783 | 21.33 | |
| WINGWALL 3 | N/A | N/A | N/A | N/A | |
| WINGWALL 4 | N/A | N/A | N/A | N/A | |

DIMENSION "X" MEASURED ALONG FRONT FACE OF WINGWALL.

NOTIFY THE GEOTECHNICAL ENGINEERING BUREAU IF THE ABOVE ELEVATIONS VARY BY MORE THAN 1 FOOT FROM THE FINAL DESIGN.

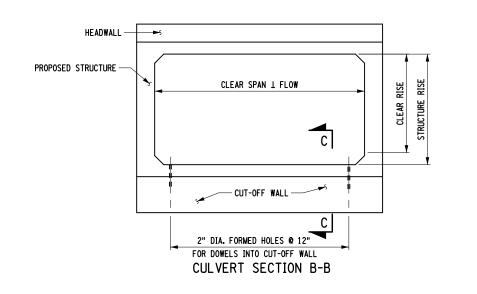
| BOX CULVERT DESIGN DATA | | | |
|---------------------------------------|--------------------------------|--|--|
| CLEAR SPAN, ft. | 7.0 | | |
| STRUCTURE RISE, ft. | 4.0 | | |
| * MIN. FILL HEIGHT, ft. | 1.7 | | |
| * MAX. FILL HEIGHT, ft. | 3.4 | | |
| SKEW ANGLE ⊥ TO © OF ROADWAY, DEG. | 37 . 49° | | |
| LIVE LOAD | HL93 AND NYS PERMIT VEHICLE | | |
| RAILING / BARRIER TEST LEVEL | TL-2 | | |

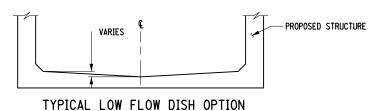
*BASED ON ASSUMED TOP SLAB THICKNESS OF 1.00 FT . FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS. (DESIGNER TO FILL IN VALUE) MEASURED FROM THE TOP OF THE TOP SLAB TO THE TOP OF THE PAVEMENT.

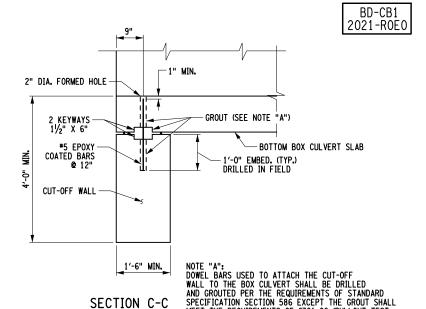
NOTES:

- 1. THE LENGTH OF EACH CULVERT SEGMENT SHALL BE DETERMINED BY THE CONTRACTOR, IF STAGED CONSTRUCTION IS EMPLOYED, THE PRECAST BOX CULVERT SEGMENT LENGTH MUST BE COMPATIBLE
- 2. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".

| MANA | | | |
|-----------------|--------------------|--------------------|---|
| JOB MA | AFFIX SEAL: ON: | ALTERED BY: ON: | |
| SCHALLER | | | AS-BUILT REVISIONS |
| SUPERVISOR R.F. | | | DESCRIPTION OF ALTERATIONS: |
|)ESIGN | | | IT IS A VIOLATION OF LAW FOR TO ALTER AN ITEM IN ANY WAY. SHALL STAMP THE DOCUMENT AN |



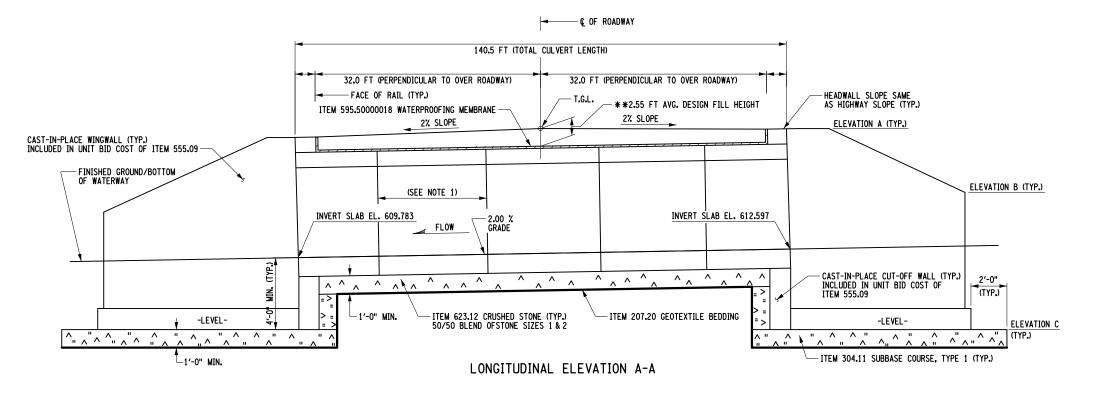




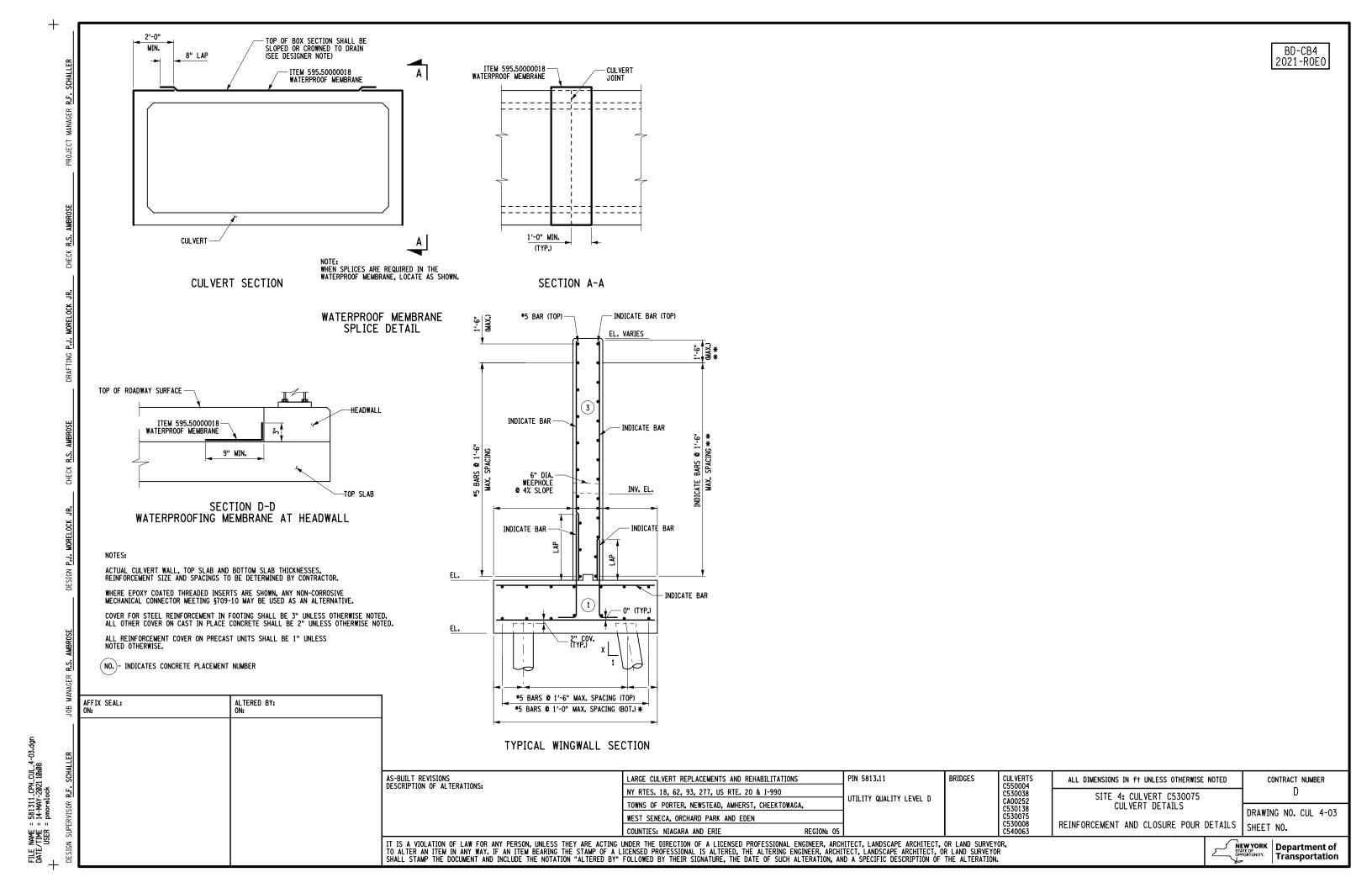
NOTE "A":
DOWEL BARS USED TO ATTACH THE CUT-OFF
WALL TO THE BOX CULVERT SHALL BE DRILLED
AND GROUTED PER THE REQUIREMENTS OF STANDARD
SPECIFICATION SECTION 586 EXCEPT THE GROUT SHALL
MEET THE REQUIREMENTS OF \$701-06 (PULLOUT TEST
NOT REQUIRED). THE KEYWAY SHALL BE GROUTED WITH
THE SAME MATERIAL AS THE DOWEL HOLES. WHEN THE
GRADE OF THE BOX EXCEDS 5%, THE TOP OF THE
CUT-OFF WALL SHOULD BE BEVELED TO MATCH THE
GRADE. PLACE A BEAD OF CAULK, CLOSED CELL FOAM
OR OTHER SUITABLE MATERIAL ON BOTH SIDES OF THE
KEYWAY TO CONTAIN THE GROUT.

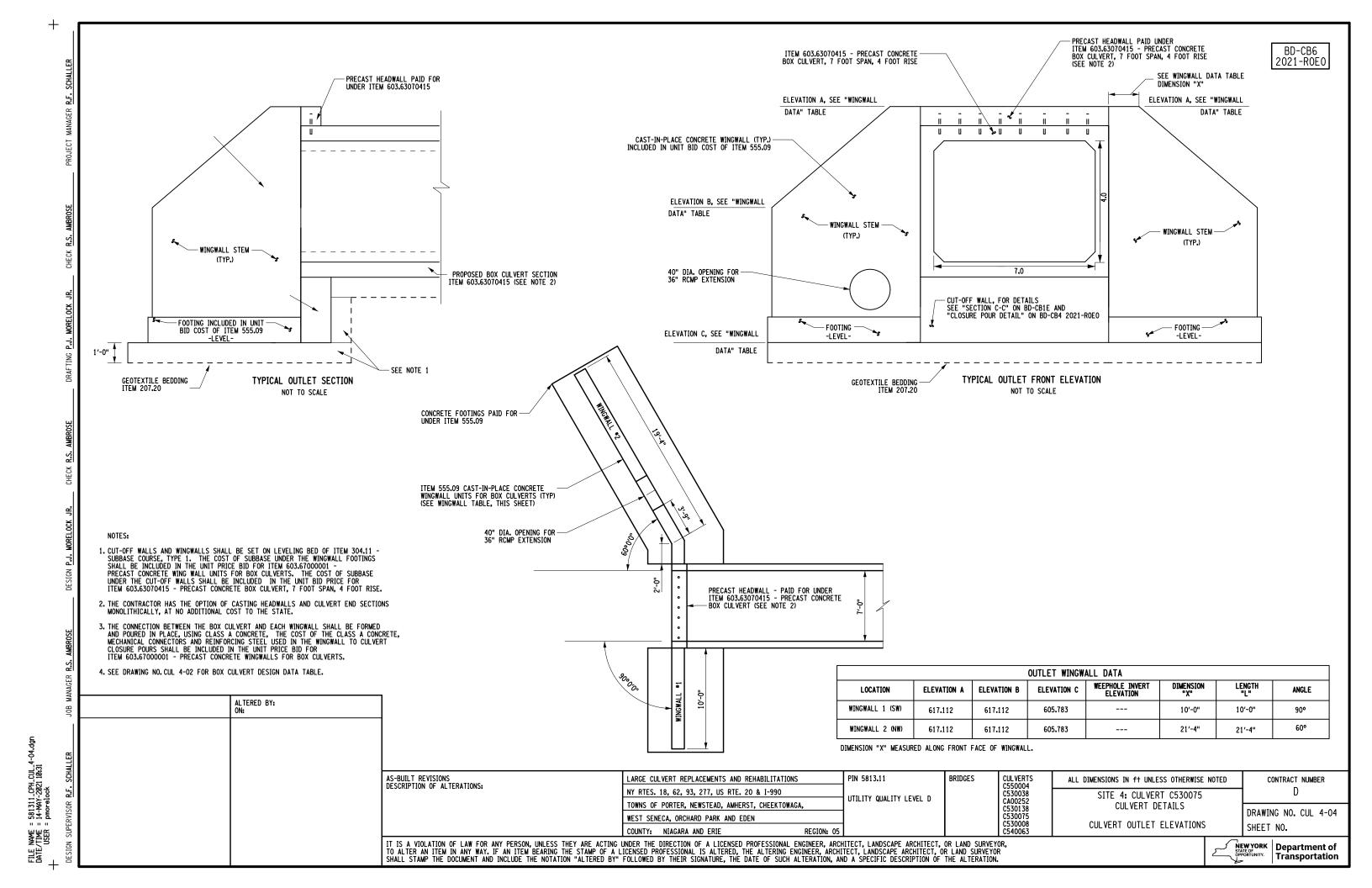
NOTE: REINFORCEMENT IN BOX CULVERT AND CUT OFF WALL NOT SHOWN FOR CLARITY.

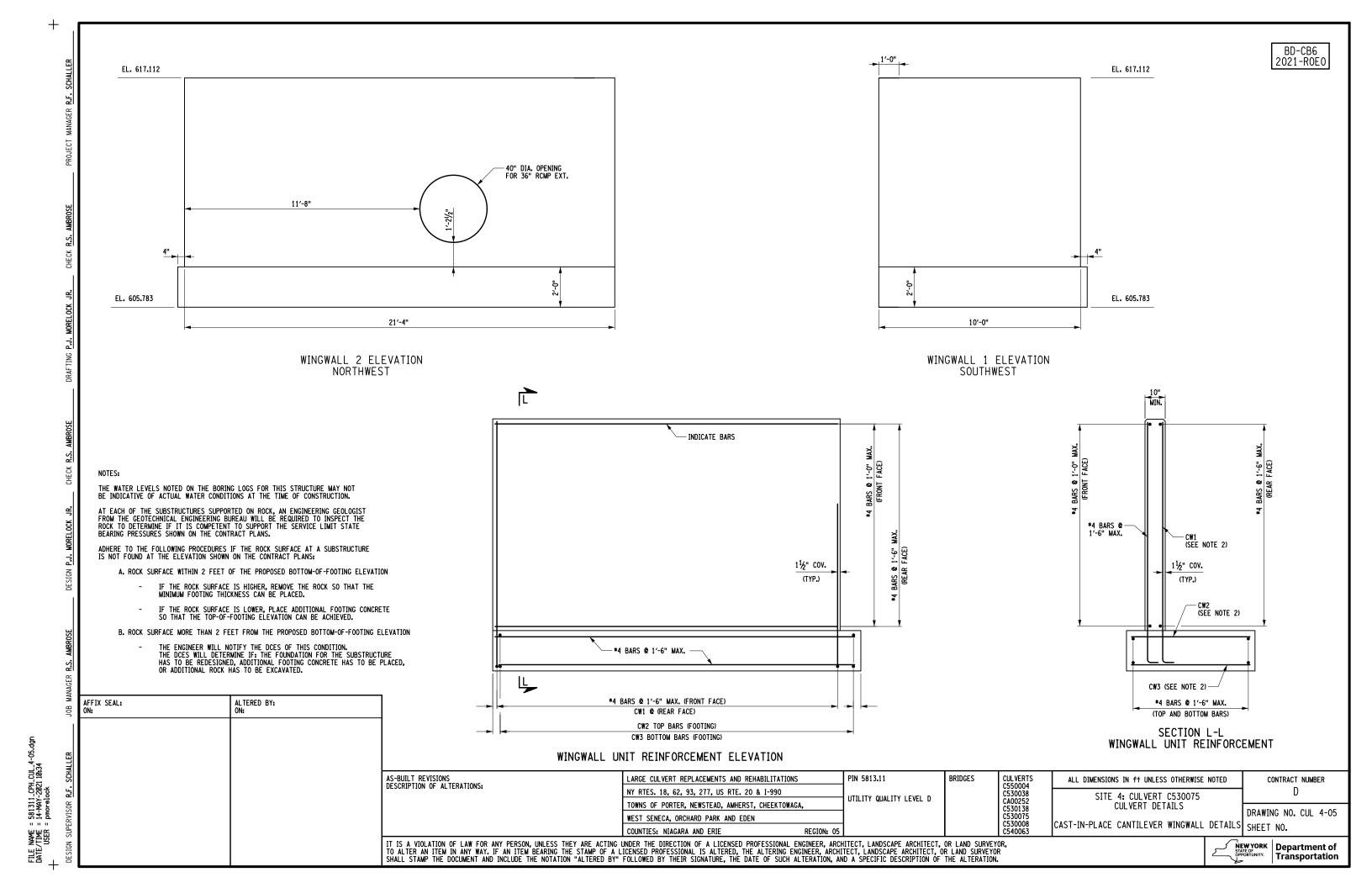
Transportation

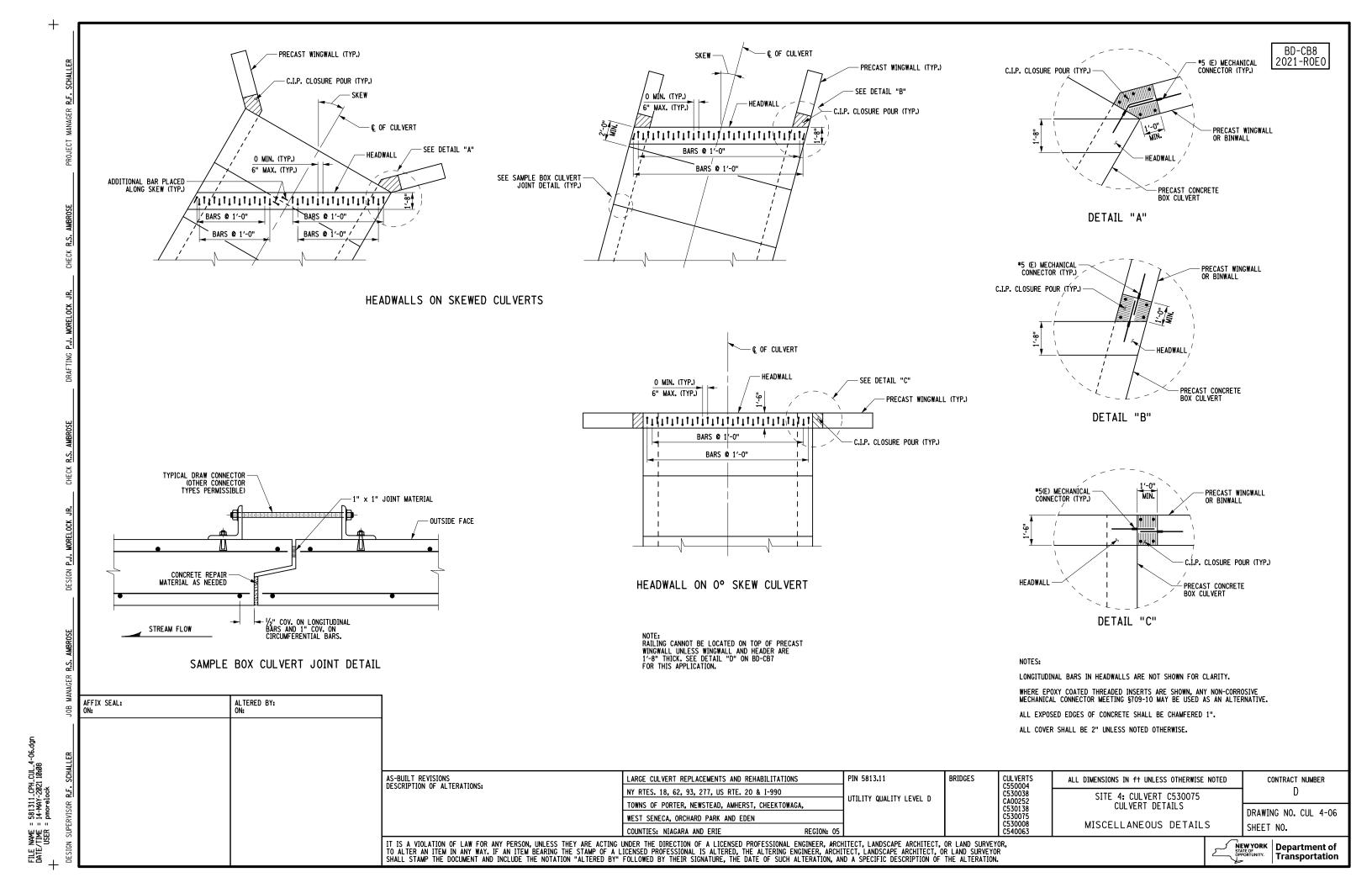


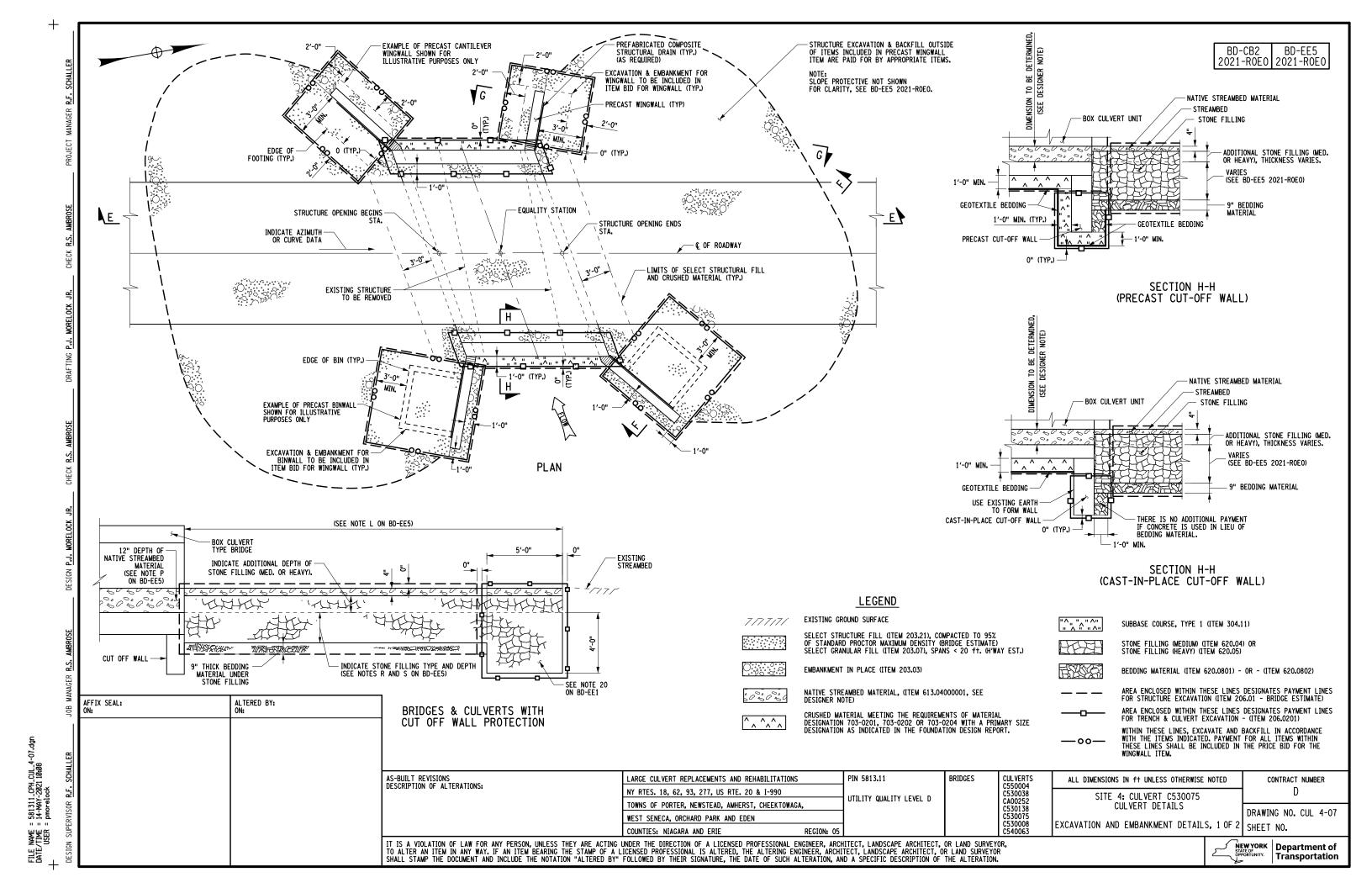
CUL VERTS C550004 ARGE CULVERT REPLACEMENTS AND REHABILITATIONS PIN 5813.11 ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER D C530038 CA00252 C530138 NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 SITE 4: CULVERT C530075 UTILITY QUALITY LEVEL D TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, CULVERT DETAILS DRAWING NO. CUL 4-02 C530075 C530008 WEST SENECA, ORCHARD PARK AND EDEN CULVERT ELEVATION SHEET NO. COUNTIES: NIAGARA AND ERIE REGION: 05 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NEW YORK Department of OPPORTUNITY.

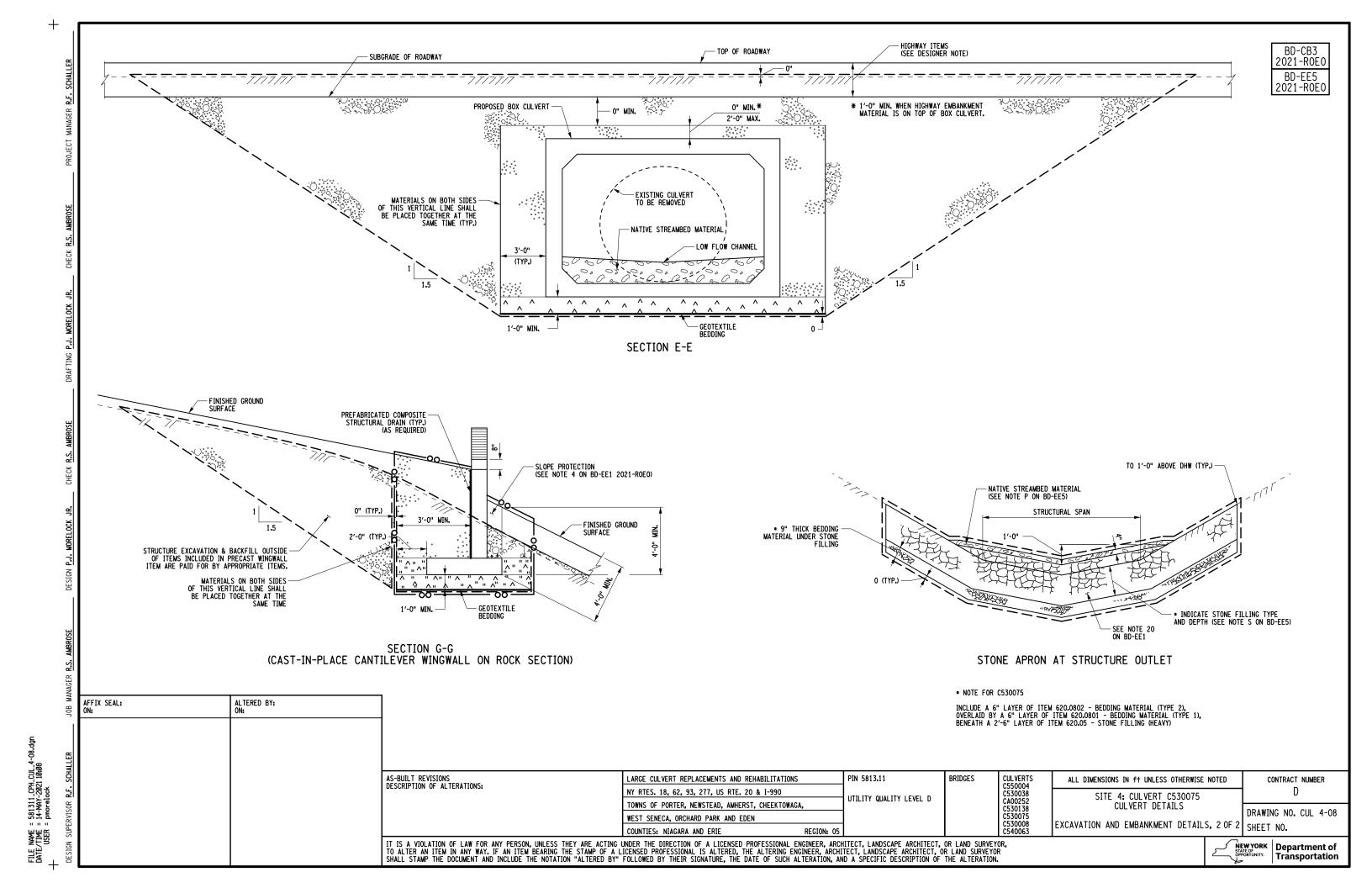


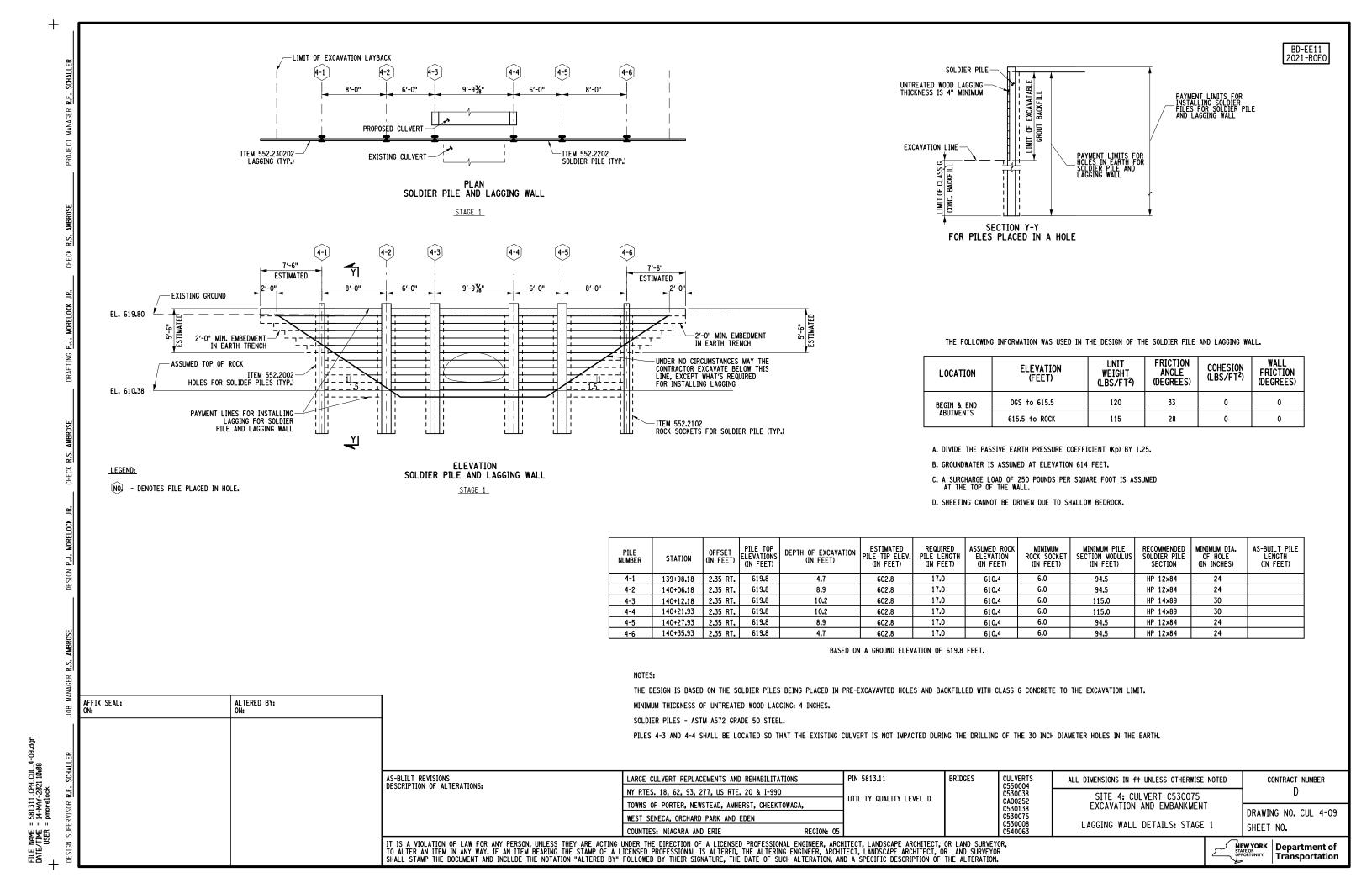


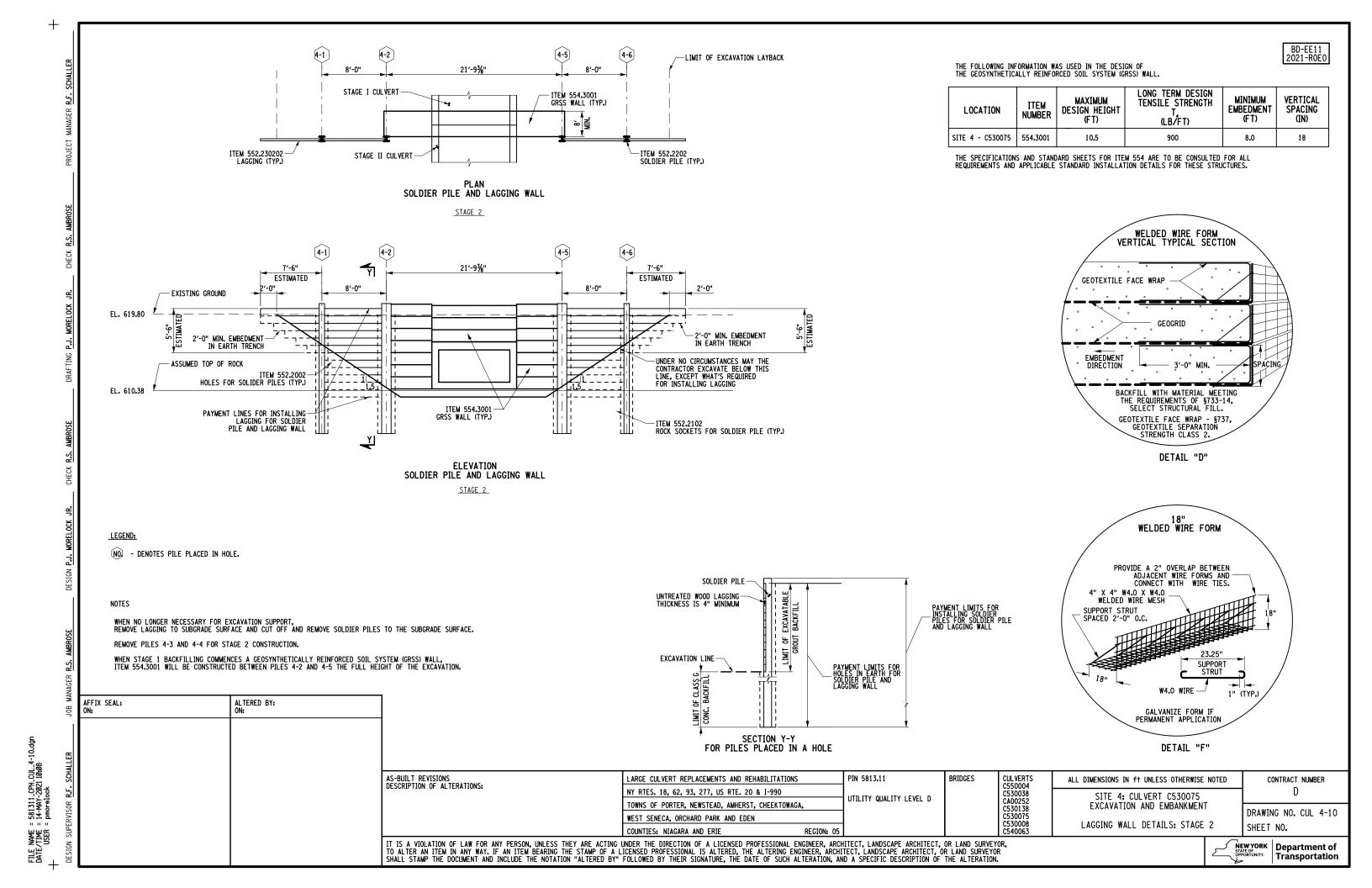


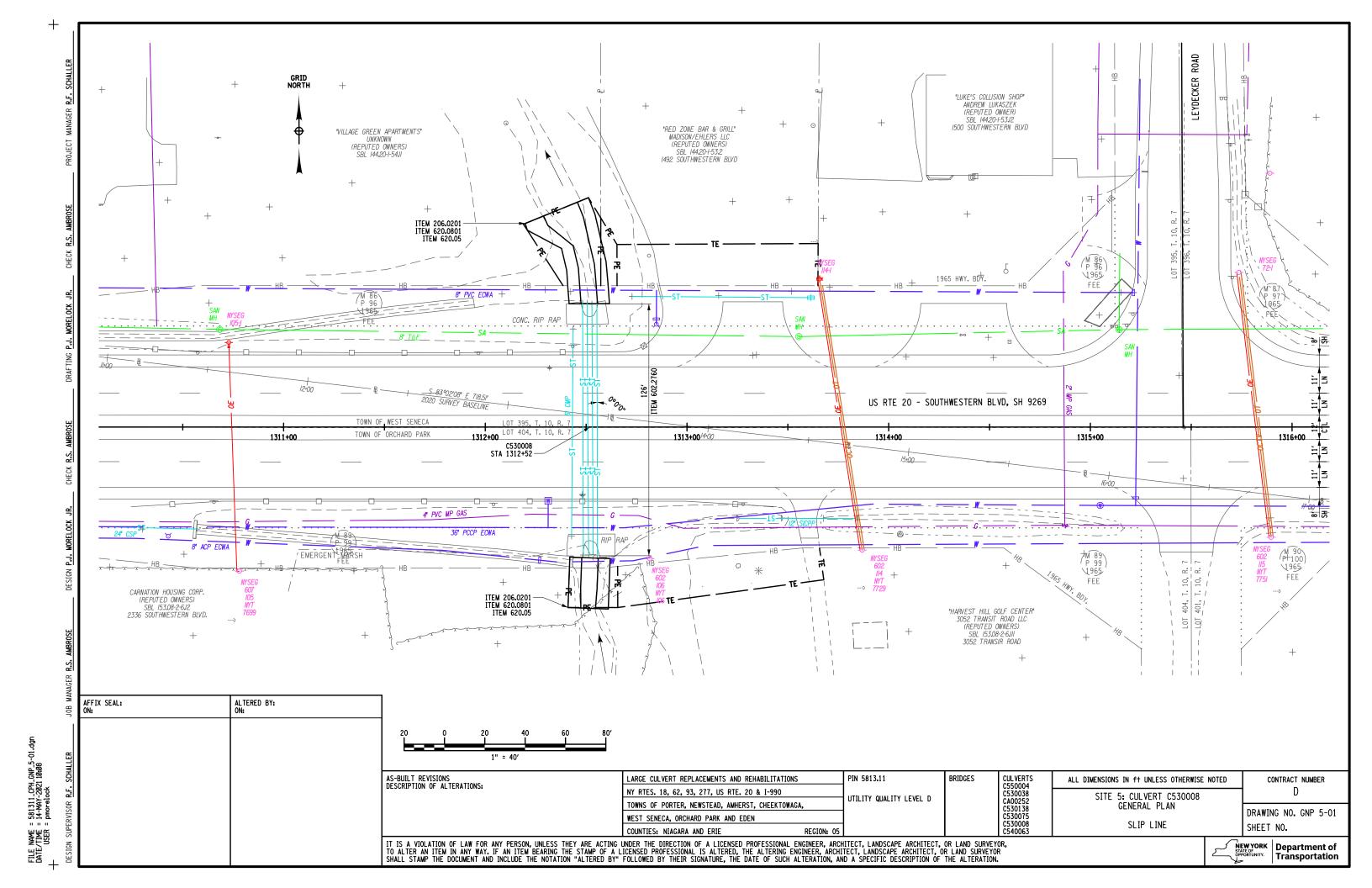












NOTES:

1. THE PROPOSED LINER PIPE SHALL BE JUSTIFIED AS FAR TOWARDS THE INVERT OF THE EXISTING CULVERT AS POSSIBLE WHILE STILL ABIDING BY THE STANDARD SPECIFICATIONS AND THE MANUFACTURER'S INSTRUCTIONS. THE SLOPE OF THE PROPOSED LINER PIPE SHALL MATCH THE SLOPE OF THE EXISTING CULVERT TO THE BEST EXTENT POSSIBLE. FINAL PLACEMENT OF THE PROPOSED PIPE LINER SHALL BE A.O.B.E. PLACE IN A MANNER THAT WILL ALLOW GROUT TO FLOW TO ALL SPACES BETWEEN THE PIPE AND THE CULVERT. MAINTAIN A MINIMUM 1" ANNULAR SPACE BETWEEN THE PIPE AND CULVERT AT ALL LOCATIONS. COST TO BULKHEAD THE PROPOSED HDPE LINER FOR VOID FILLING OPERATIONS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 602.2760.

- 2. THE PROPOSED HDPE LINER PIPE SHALL BE ANCHORED TO THE CUT-OFF WALLS AS PER MANUFACTURER'S DETAILS AND A.O.B.E. ALL COSTS ASSOCIATED WITH ANCHORING THE LINER PIPE TO THE CUT-OFF WALL SHALL BE INCLUDED IN HE PRICE BID FOR ITEM 602.2760.
- 3. MITERED ENDS AND/OR SECTIONS TO BE FIELD WELDED AS PER MANUFACTURER'S RECOMMENDATIONS.
- ACCESS TO EACH SITE SHALL BE CONSTRUCTED WITHIN THE NYSDOT HIGHWAY BOUNDARY AND IN SUCH A WAY TO ENSURE EXISTING STABILITY OF THE ROADWAY, A.O.B.E.
- 5. THE CONTRACTOR SHALL BE ALLOWED TO TEMPORARILY DISMANTLE EXISTING GUIDE RAIL IN ORDER TO ACCESS SITES, ONLY WITH E.I.C. APPROVAL. SEE DWG. GNN-01, GUIDE RAIL NOTES.

EXISTING 8'-2" x 5'-9"' CSPPA

ITEM 602.2760 - LINING WITH PROFILE WALL HIGH DENSITY POLYETHYLENE

WALL HIGH DENSITY FOLTEINTLENE PIPE 60 INCH DIAMETER. OVALIZE PIPE 72" X 48" I.D. - ALL SECTIONS SHALL BE FIELD WELDED, A.O.B.E. COST TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 602 6760

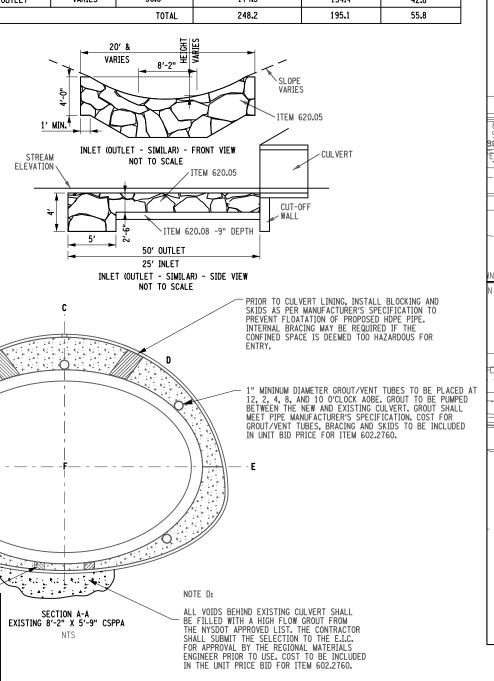
ALTERED BY: ON:

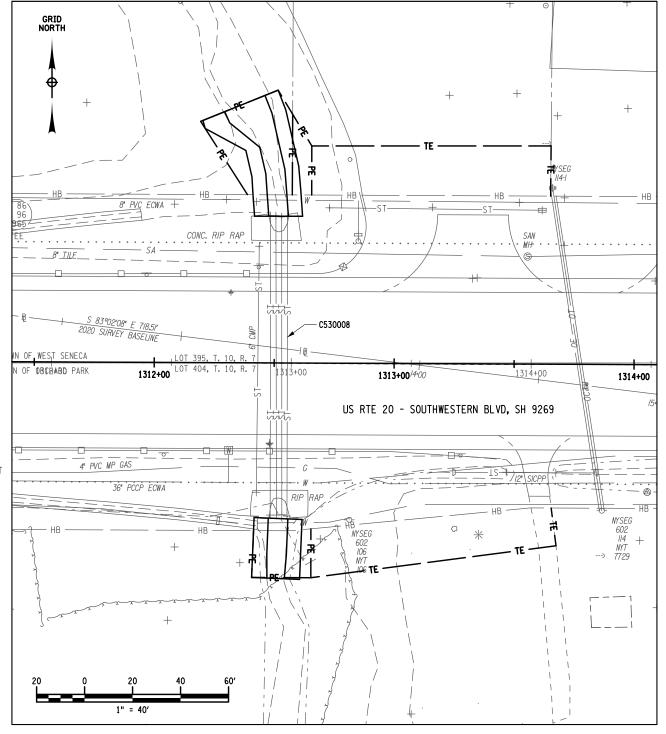
SKIDS-

BEVEL INLET END

| ITEM 602.2760 - LINING WITH PROFILE WALL HIGH DENSITY POLYETHYLENE PIPE | | | | | | | | | |
|---|-------|-----------|-----------------|--------------|----------------------|--------|-----------------|---|----------|
| CULVERT NUMBER | ROUTE | SH NUMBER | ROUTE MARKER | MUNICIPALITY | EXIST. SIZE/TYPE | LENGTH | PROP. SIZE/I.D. | PROPOSED TREATMENT | 602.2760 |
| C530008 | 20 | SH 9269 | RM 20-5302-1270 | WEST SENECA | 8'-2" X 5'-9" - CMPA | 126′ | 72" X 48" | SLIPLINE WITH 60" OVALIZED PROFILE WALL HDPE PIPE - ITEM 602.2760 | 126 FT. |
| | | | | | | | | TOTAL | 126 FT. |

| TABLE OF STONE LINED APRONS | | | | | | | |
|----------------------------------|-------|--|--|---|--|--|--|
| LOCATION WIDTH (FT) LENGTH+ (FT) | | ITEM 206.0201 TRENCH & CULVERT EXCAVATION (CY) | ITEM 620.05 STONE FILL HEAVY (CY) | ITEM 620.0801 BEDDING MATERIAL (CY) | | | |
| 20.00 | 25.0 | 73.7 | 60.7 | 13.0 | | | |
| VARIES | 50.0 | 174.5 | 134.4 | 42.8 | | | |
| | TOTAL | 248.2 | 195.1 | 55.8 | | | |
| | 20.00 | WIDTH (FT) LENGTH• (FT) 20.00 25.0 VARIES 50.0 | WIDTH (FT) LENGTH• (FT) ITEM 206,0201 TRENCH & CULVERT EXCAVATION (CY) 20.00 25.0 73.7 VARIES 50.0 174.5 | WIDTH (FT) LENGTH* (FT) ITEM 206.0201 TRENCH & CULVERT EXCAVATION (CY) ITEM 620.05 STONE FILL HEAVY (CY) 20.00 25.0 73.7 60.7 VARIES 50.0 174.5 134.4 | | | |





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AFFIX SEAL:

ITEM 602.6760.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: ARGE CULVERT REPLACEMENTS AND REHABILITATIONS NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA, ORCHARD PARK AND EDEN COUNTIES: NIAGARA AND ERIE

PIN 5813.11 UTILITY QUALITY LEVEL D CUL VERTS C550004 C530038 CA00252 C530138 C530075 C530008

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED SITE 5: CULVERT C530008 CULVERT DETAILS

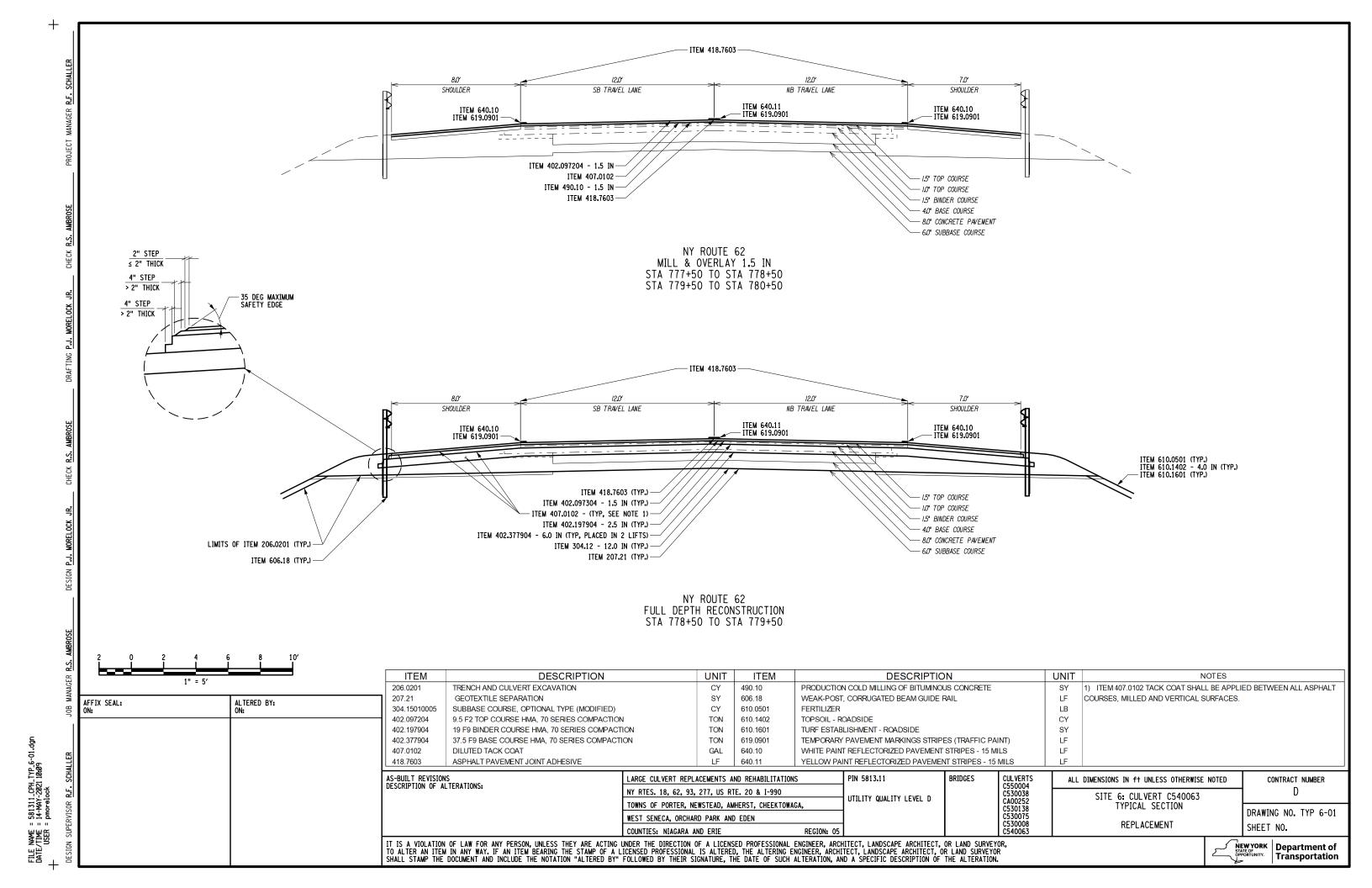
SLIP LINE

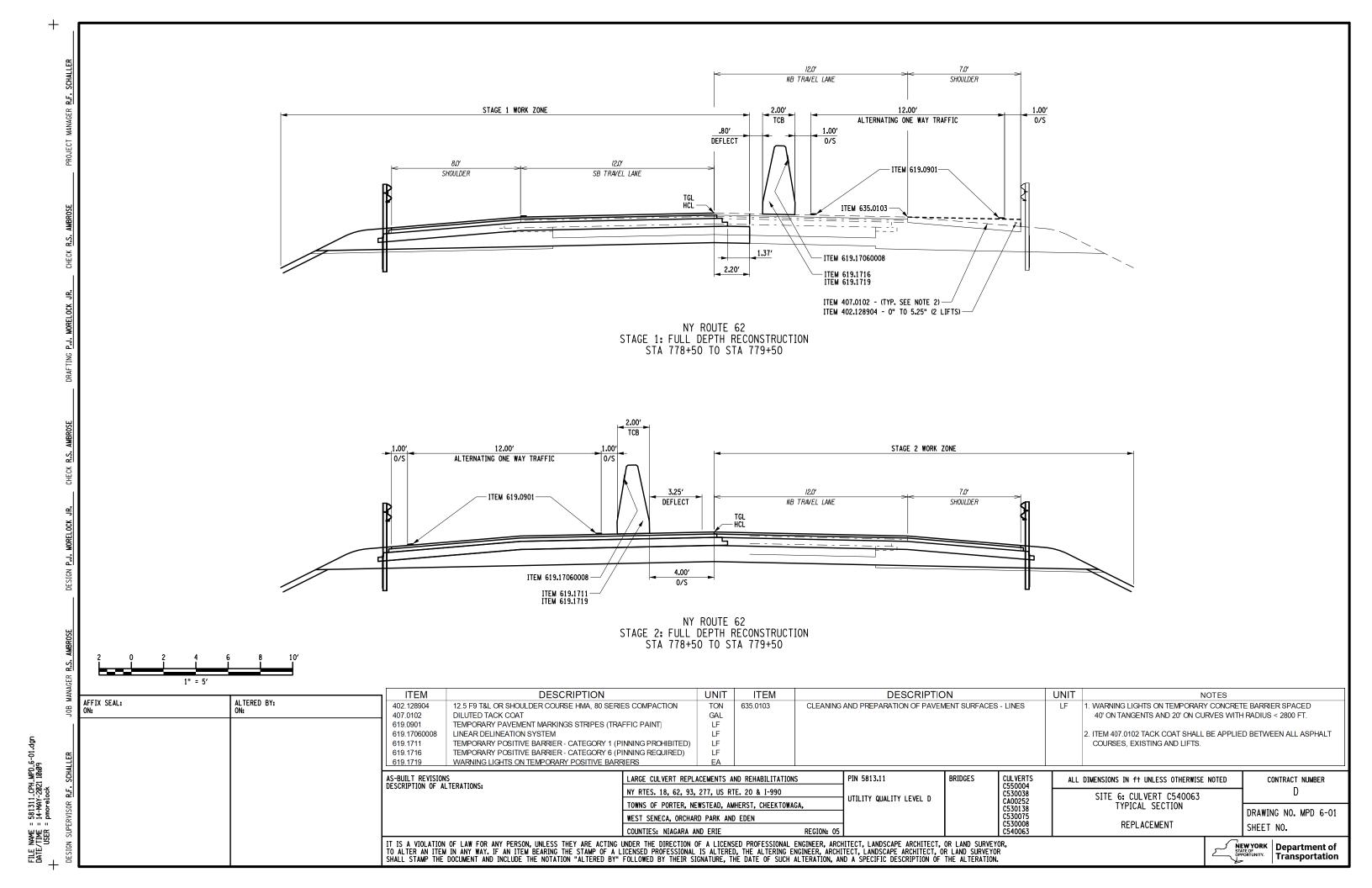
CONTRACT NUMBER DRAWING NO. CUL 5-01

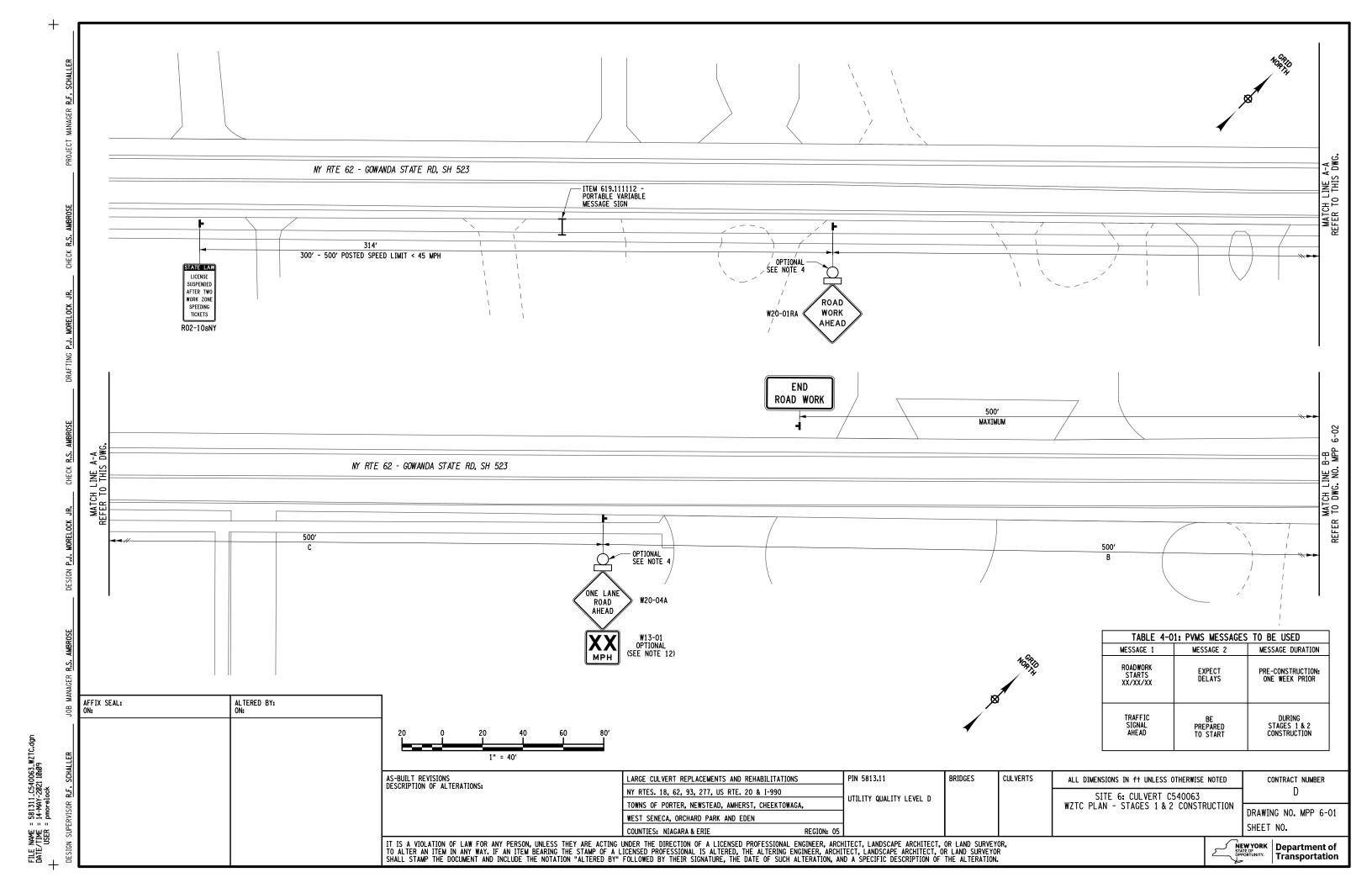
SHEET NO.

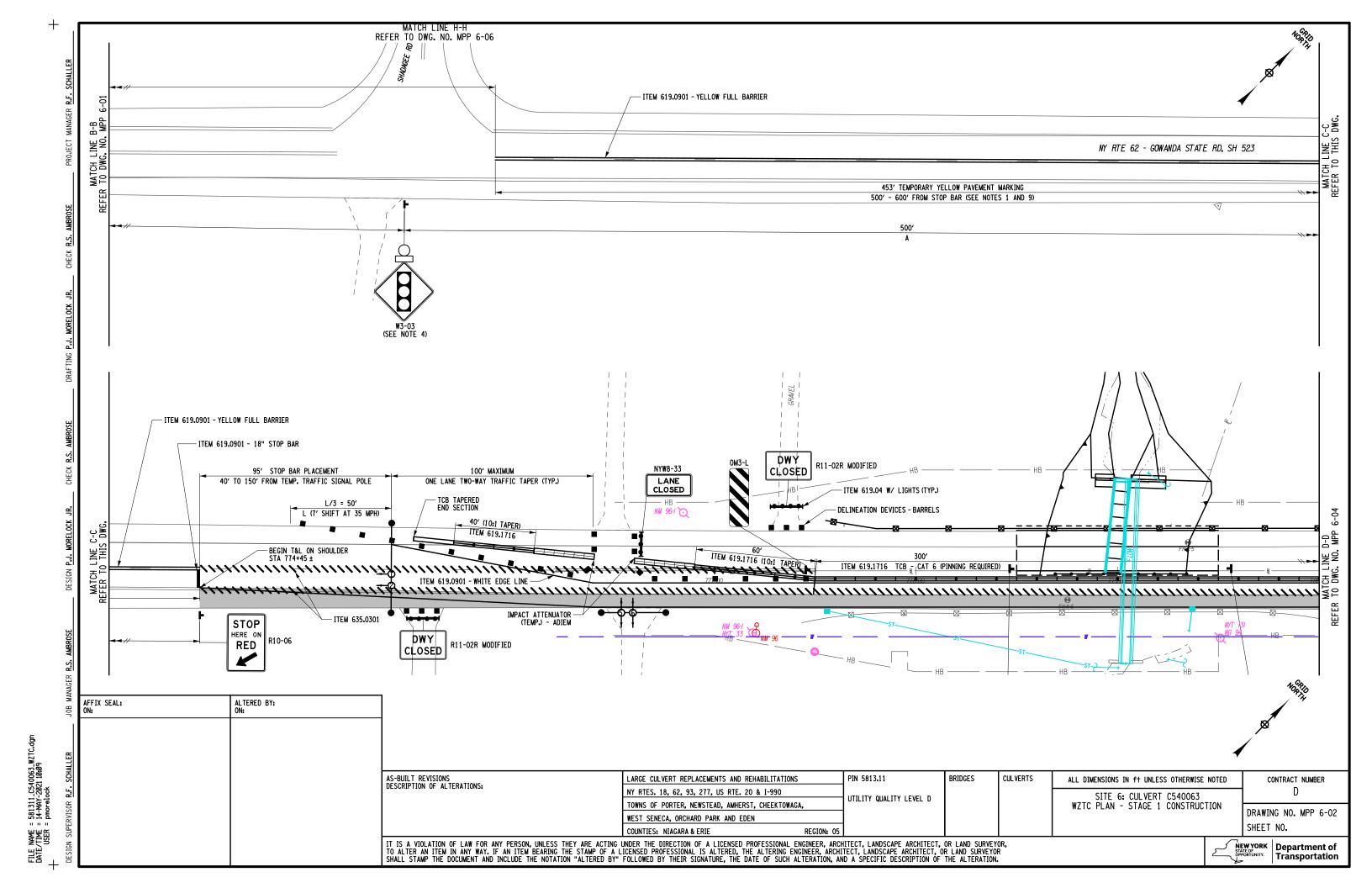
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK Department of OPPORTUNITY. Transportation









NOTES:

- FOR LONG DURATION LANE CLOSURES, TEMPORARY / INTERIM PAVEMENT MARKINGS SHALL BE USED IN ACCORDANCE TO THE CONTRACT DOCUMENTS. ANY EXISTING PAVEMENT MARKINGS
- 2. THE TEMPORARY CONCRETE BARRIER SHALL NOT BE PLACED ALONG THE MERGING TAPER. THE LANE SHALL BE CLOSED USING CHANNELIZING DEVICES AND PAVEMENT MARKINGS.
- 3. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND TO DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVELED WAY.
- 4. FLASHING WARNING LIGHTS ARE REQUIRED ON THE W3-3 SIGNAL AHEAD SIGN. FLASHING WARNING LIGHTS ARE AN OPTION ON THE ROAD WORK AHEAD SIGN (W2O-1) AND ONE LANE ROAD AHEAD SIGNS (W2O-4) AND MAY BE USED TO INCREASE TARGET VALUE AND VISIBILITY, AS DETERMINED BY THE ENGINEER.
- 5. REFER TO MUTCD FOR ADDITIONAL TRAFFIC SIGNAL REQUIREMENTS.
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- 10. ADJUSTMENTS IN THE LOCATION OF ADVANCED WARNING SIGNS SHOULD BE MADE TO ACCOMMODATE THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE ROADWAY, RECOGNIZING THAT THE DISTANCES SHOWN FOR SIGN SPACING ARE MINIMUMS. ADJUSTMENTS IN THE HEIGHT OF THE SIGNAL HEADS SHALL BE MADE AS NEEDED TO CONFORM TO THE VERTICAL ALIGNMENT.
- 11. THE SUPPORTS FOR TEMPORARY TRAFFIC CONTROL SIGNALS SHALL NOT ENCROACH INTO THE MINIMUM REQUIRED WIDTH OF A "PEDESTRIAN ACCESS ROUTE" OF 4' OR AN "ALTERNATE CIRCULATION PATH" OF 3'.
- 12. THE ENGINEER MAY REQUIRE THE USE OF AN ADVISORY SPEED PLAQUE (W13-1) TO SUPPLEMENT A WARNING SIGN.
 THE PLAQUE WILL BE USED TO INDICATE AN ADVISORY SPEED FOR THE WORK ZONE CONDITION.
 (IE. NARROW LANES, BUMPS, POOR ROADWAY SURFACE, LOW OR NO SHOULDER, DROP-OFFS, GEOMETRIC CONSTRAINTS, AND/OR POOR SIGHT CONDITIONS).

| OPERATIONAL SCHEDULE FOR TEMPORARY TRAFFIC SIGNALS | | | | | | | | |
|--|----|----|----|----|----|----|----|----|
| PHASE FACE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | G | G | R | R | R | R | R | R |
| CLEARANCE | Y | Υ | R | R | R | R | R | R |
| ALL RED | R | R | R | R | R | R | R | R |
| 2 | R | R | G | G | R | R | R | R |
| CLEARANCE | R | R | Y | Υ | R | R | R | R |
| ALL RED | R | R | R | R | R | R | R | R |
| 3 | R | R | R | R | G | G | R | R |
| CLEARANCE | R | R | R | R | Υ | Υ | R | R |
| ALL RED | R | R | R | R | R | R | R | R |
| 4 | R | R | R | R | R | R | G | G |
| CLEARANCE | R | R | R | R | R | R | Υ | Υ |
| ALL RED | R | R | R | R | R | R | R | R |
| EMERGENCY FLASH | FR |

- 1. TEMPORARY SIGNAL TIMING SHALL BE DETERMINED BY THE REGIONAL TRAFFIC OFFICE.
- 2. DURING STAGE I OF WORKZONE OPERATIONS SIGNAL OPERATIONAL SCHEDULE SHALL INCLUDE A PHASE TO ACCOMODATE PEDESTRIAN TRAFFIC THRU THE WORK ZONE.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

PHASE I TEMPORARY TRAFFIC SIGNAL INTERMEDIATE / LONG TERM STATIONARY LANE CLOSURE ON 2-LANE 2-WAY ROADWAY

(NOT TO SCALE)

FOR MINIMUM LANE WIDTHS SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL GENERAL NOTES"

| AFFIX SEAL: ON: | ALTERED BY: ON: | |
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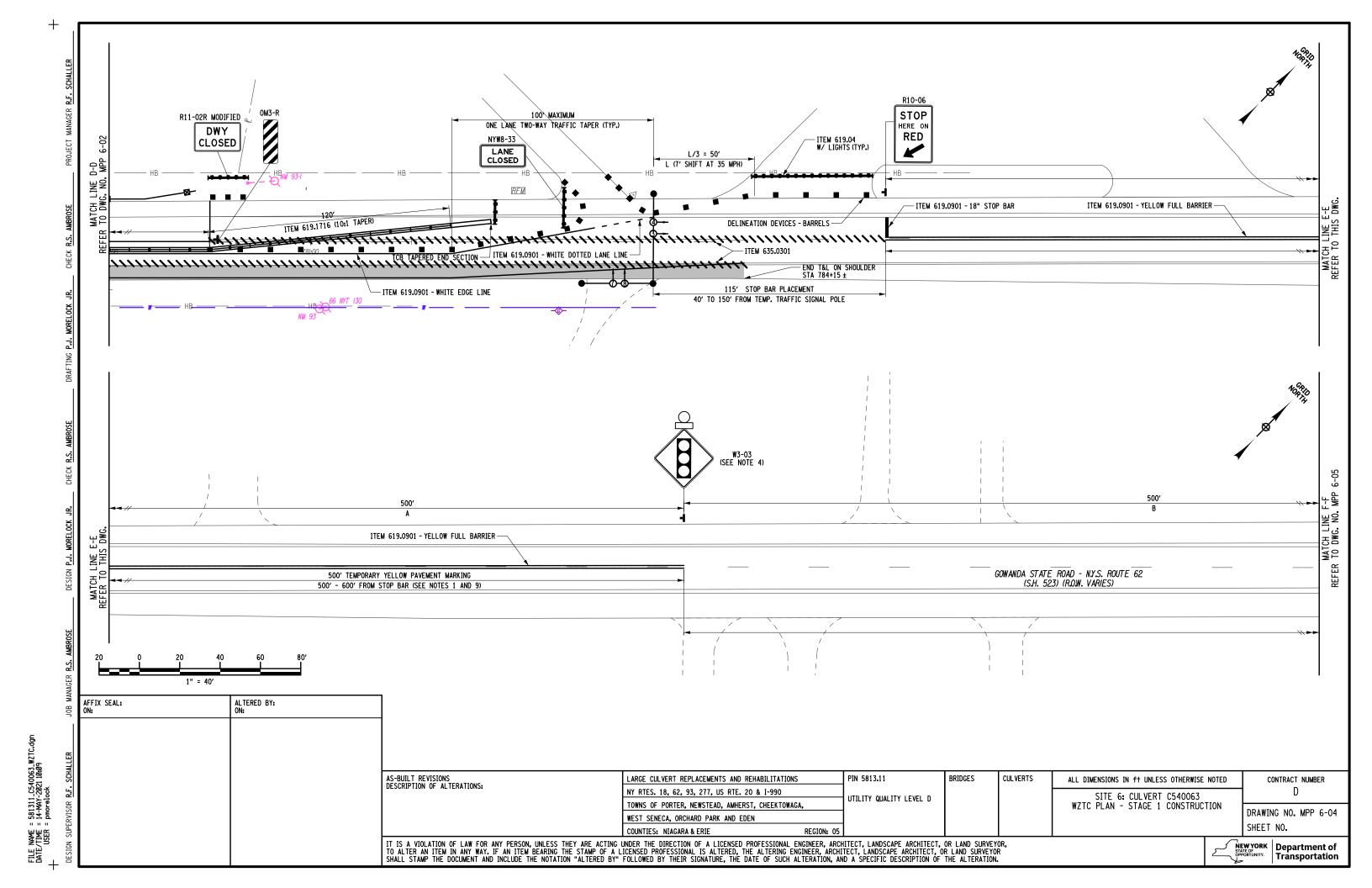
| S-BUILT REVISIONS ESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS |
|---|--|
| | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, |
| | WEST SENECA, ORCHARD PARK AND EDEN |
| | COUNTY: NIAGARA REGION: 05 |

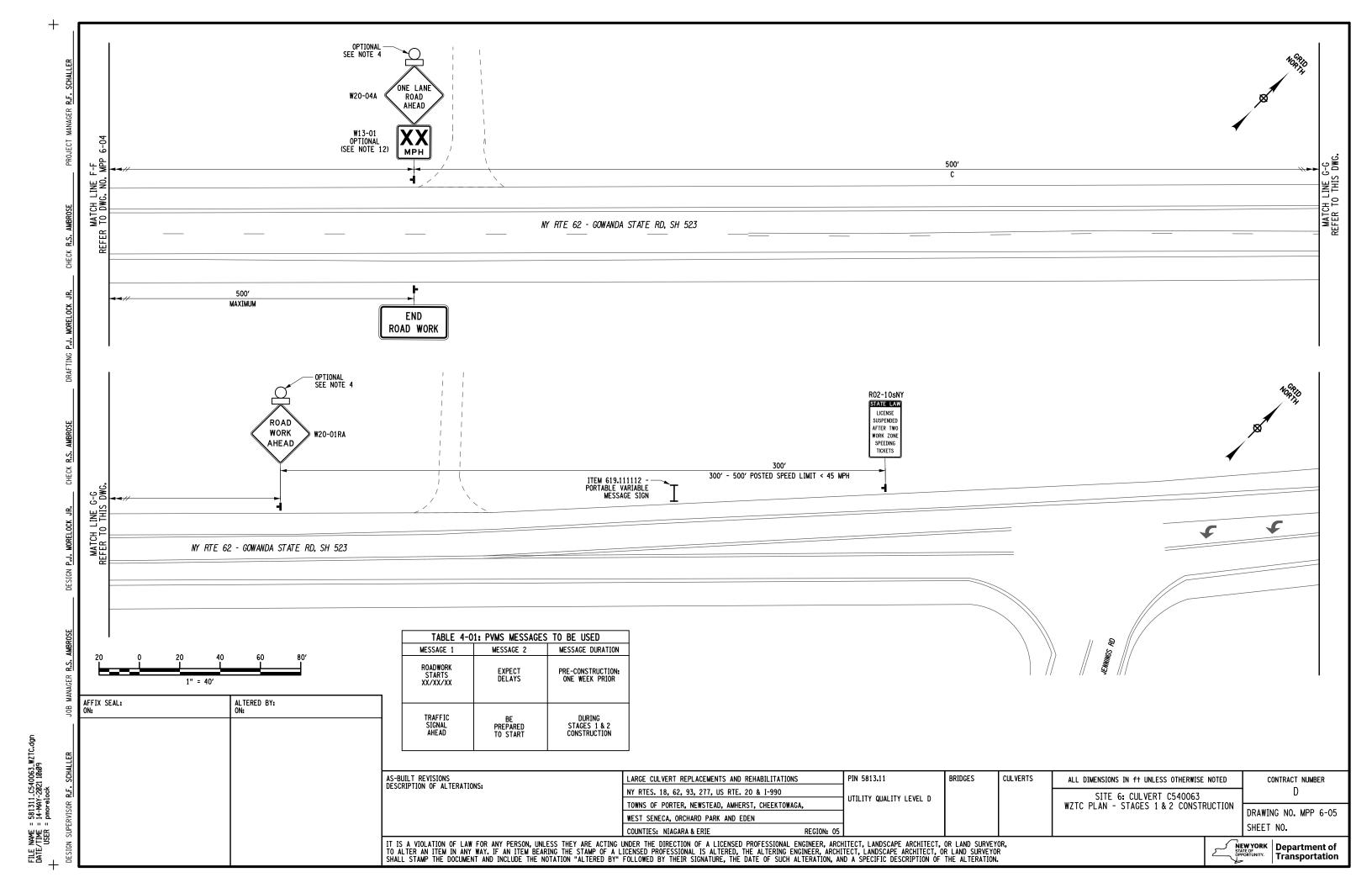
| PIN 5813.11 | BRIDGES | CULVERTS |
|-------------------------|---------|----------|
| UTILITY QUALITY LEVEL D | | |

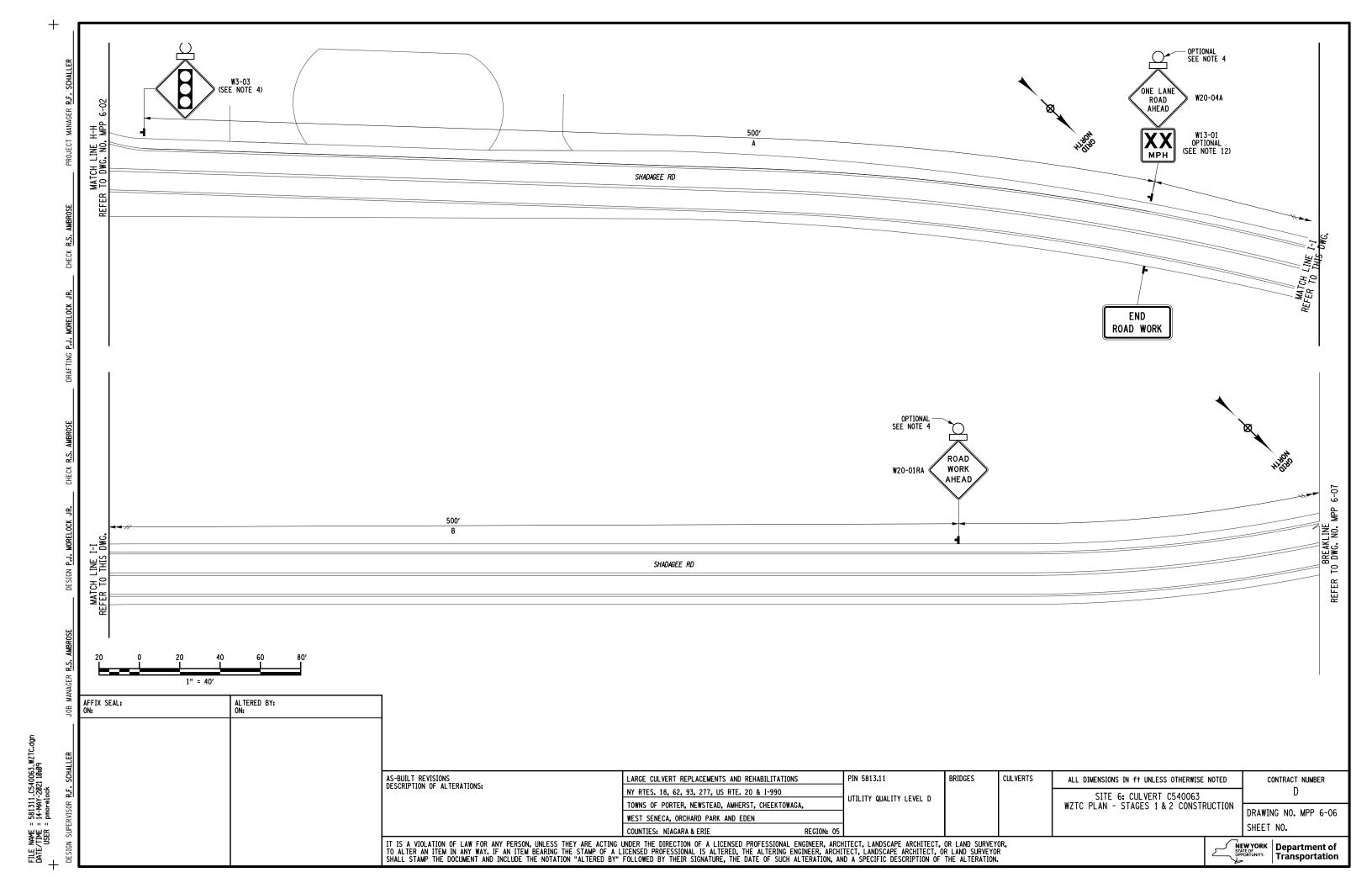
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER SITE 6: CULVERT C540063 DRAWING NO. MPP 6-03 SHEET NO.

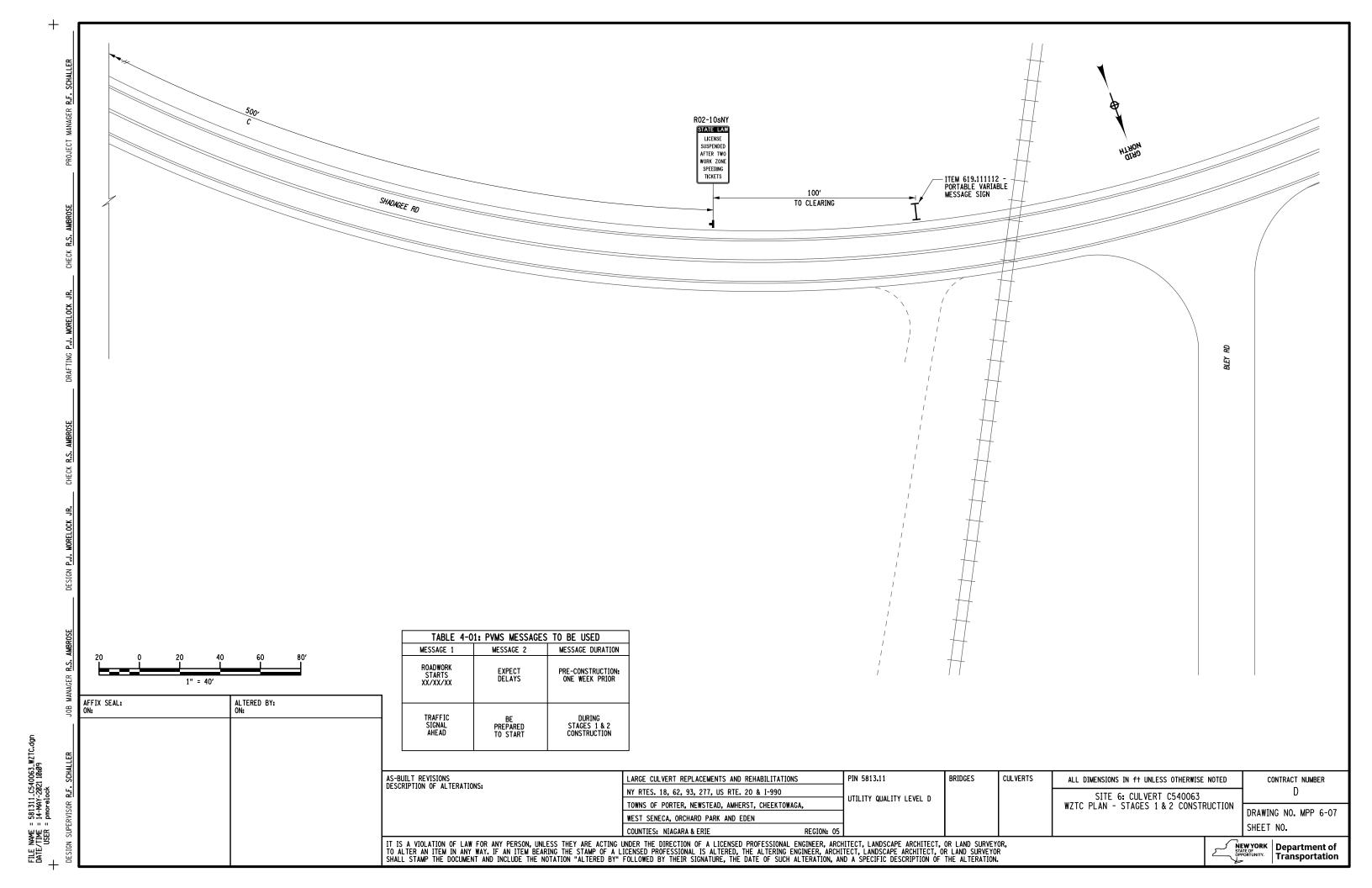
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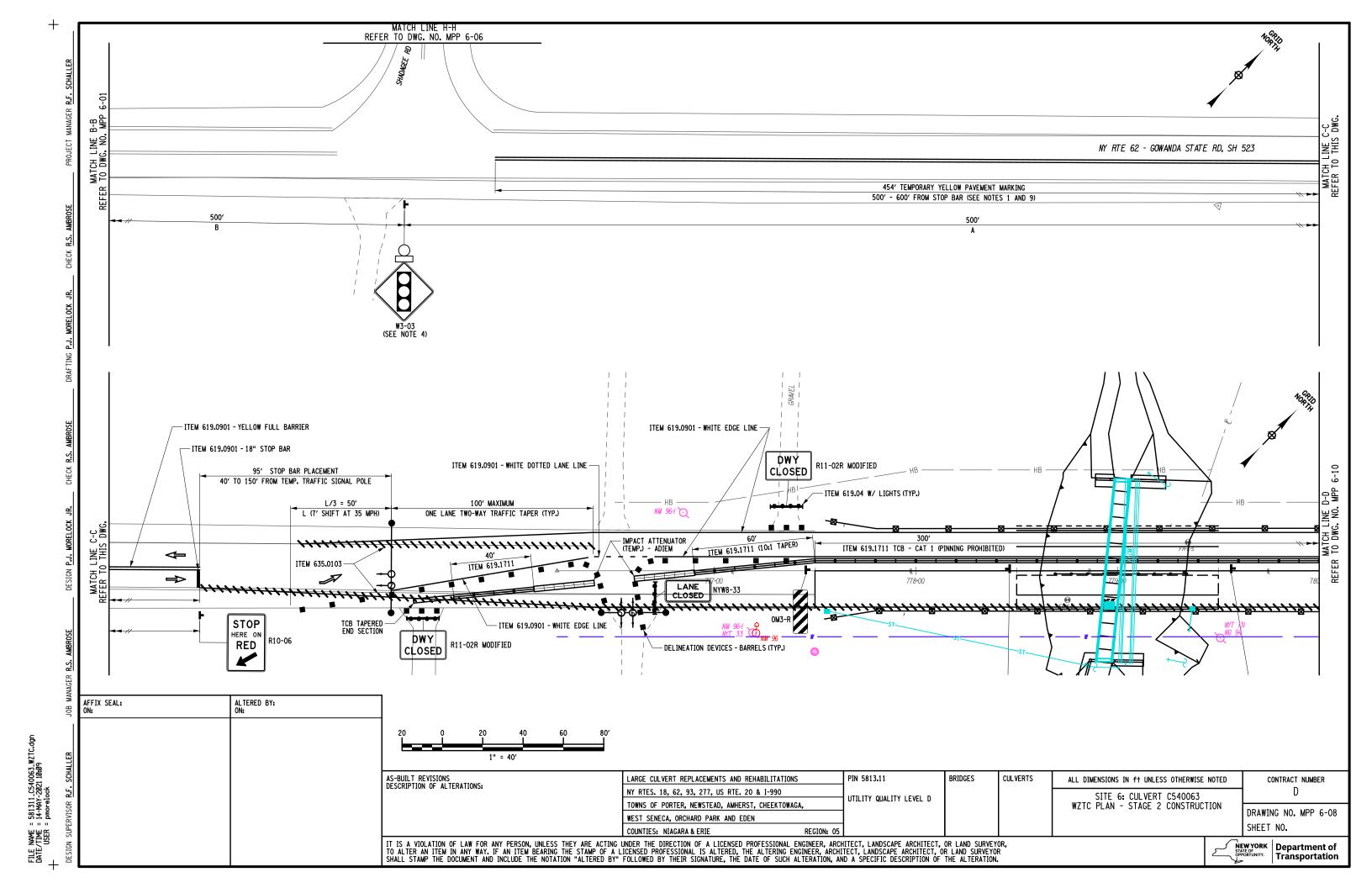
NEW YORK
STATE OF OPPORTUNITY.
OPPORTUNITY.
Transportation











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|--|----|----|----|----|----|----|----|----|
| PHASE FACE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | G | G | R | R | R | R | R | R |
| CLEARANCE | Y | Υ | R | R | R | R | R | R |
| ALL RED | R | R | R | R | R | R | R | R |
| 2 | R | R | G | G | R | R | R | R |
| CLEARANCE | R | R | Y | Υ | R | R | R | R |
| ALL RED | R | R | R | R | R | R | R | R |
| 3 | R | R | R | R | G | G | R | R |
| CLEARANCE | R | R | R | R | Υ | Y | R | R |
| ALL RED | R | R | R | R | R | R | R | R |
| 4 | R | R | R | R | R | R | G | G |
| CLEARANCE | R | R | R | R | R | R | Υ | Y |
| ALL RED | R | R | R | R | R | R | R | R |
| EMERGENCY FLASH | FR |

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(NOT TO SCALE)

FOR MINIMUM LANE WIDTHS SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL GENERAL NOTES"

| | AFFIX SEAL: ON: | ALTERED BY: ON: | |
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| 1 | | | |

| LT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 |
|-----------------------|--|--------------|
| PTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | UTILITY QUAL |
| | WEST SENECA, ORCHARD PARK AND EDEN | |
| | COUNTIES: NIAGARA AND ERIE REGION: | 05 |

UTILITY QUALITY LEVEL D

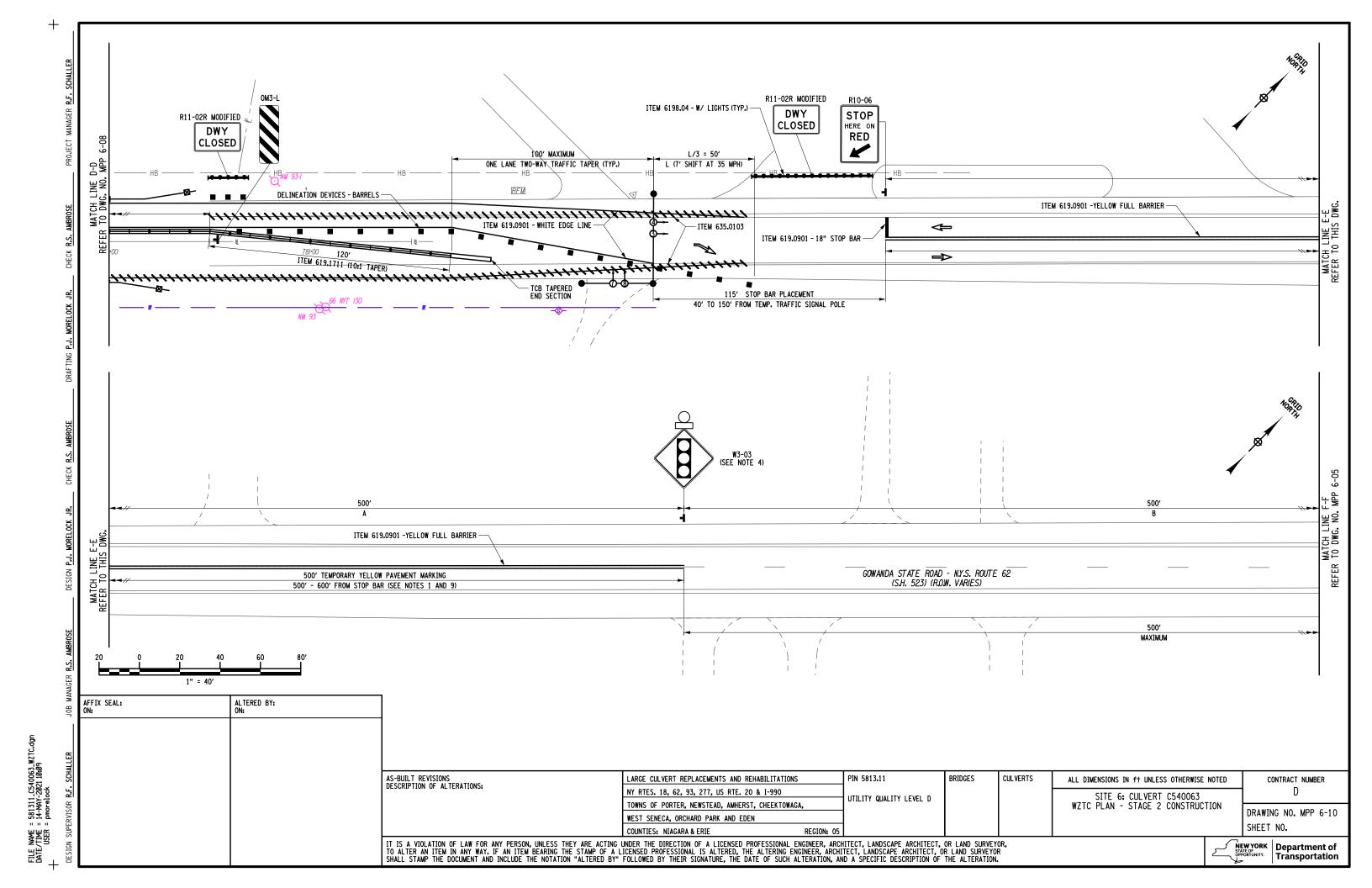
CUL VERTS

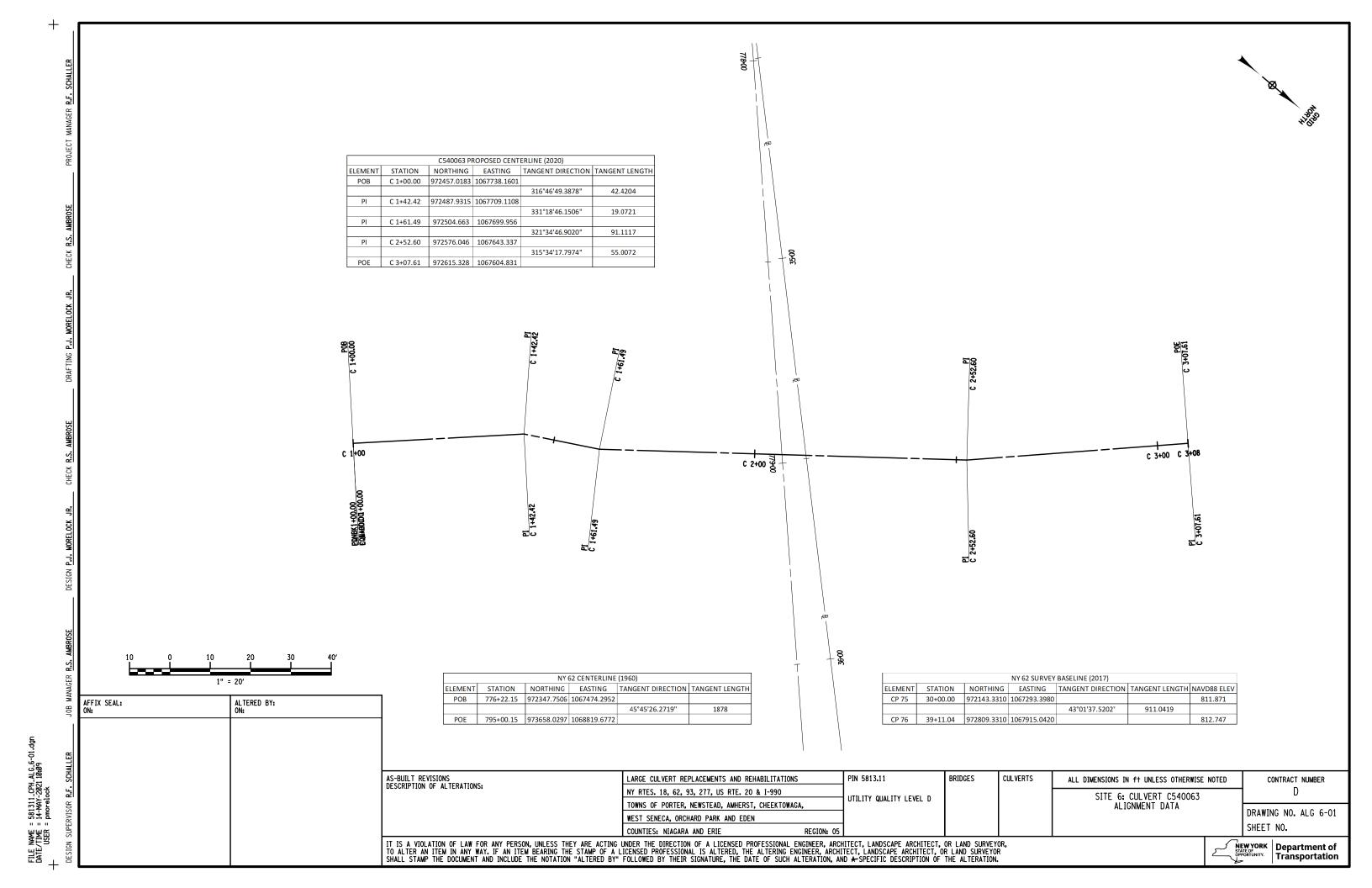
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED SITE 6: CULVERT C540063 WZTC PLAN - STAGE 2 CONSTRUCTION

CONTRACT NUMBER DRAWING NO. MPP 6-09 SHEET NO.

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Control Point Record RAVI ENGINEERING 09/19/2017 Date Set: C540063 B.I.N.: Crew: T. Stein & LAND SURVEYING, P.C. CONTRACT# D031339 2110 Smath Clinton Avenue, Suite 1 Rochester, New York 14618 State: New York County: Erie TL: (585) 323-3660 FX: (585) 697-1764 Surveying Method: GPS X Conventional Horizontal Datum: Coordinate System NYSPCS: West X Units: Meters X Central Feet East 🔲 Control Baseline Point: 75 (STA. 30+00.00) Vertical Datum: NAVD88 Northing (Y) 972,143.331 Combined Scale Factor: 0.99991151 Easting (X) 1,067,293.398 Elevation = 811.97' X Elevation conventionally measured and derived from GPS Description:
CP #75 IS A REBAR W/RAVI CAP ON THE EASTERLY EDGE OF PAVEMENT OF HAMBURG - NORTH COLLINS, S.H. 523 U.S. ROUTE 62, LOCATED APPROX, 7 FEET NORTHWESTERLY OF UTILITY POLE 66 NYT 135 NM 99. TO STATION GRID BEARING GRID DISTANCE N 43°01'38" E 911.04 CP 76 Monument Type: Rebar with Ravi Cap Sketch Not to Scale All Ties: Direct Leveled X △ CP 76 SW FACE NM 98 NYT 134 THOUTE STRIPE CP 75 BU " NW FACE 66 NYT 135 NM 99 NE FACE -O POLE

| RAVI ENGINEERING & LAND SURVEYING | | B.I.N.: C540 | 063 | Date Set: Crew: | 09/19/2017 T. Stein |
|--|--|--|--------------------------------|----------------------------|------------------------|
| 2110 South Clinton Avenue, Su Rochester, New York 1461 TL: (585) 223-3660 FX: (585) | 8 | County: Erie | | State: | New York |
| Horizontal Datum: Coordinate System NYSPCS: West East Vertical Datum: NAVD88 Combined Scale Factor: 0.99991151 X Elevation conventionally measured and | | Control Baseline Poir Northing (Y) 972,8 | eters 76 (\$ 309.331 7,915.042 | Conv Feet STA. 39+11 | |
| Description: CP #76 IS A REBAR W/RAVI CAP ON TI U.S. ROUTE 62, LOCATED APPROX. 52 | HE WESTERLY EDGE FEET NORTHEASTE | E OF PAVEMENT OF HAI RLY OF MILE MARKER | MBURG - NO 62 5303 1157 | ORTH COLL 7. | JINS, S.H. 523 |
| TO STATION CP 75 | GRID F | BEARING D1'38" W | (| GRID DIST. 911.0 | |
| C1 13 | 3 13 (| 31 30 W | | 311.0 | ' |
| POST & RAIL FENCE CP | 76 (15) (15 | SW FACE NM 91-1 SN FACE NM 91-1 SOLUTION SO | OSE OF PARE | WE HI | |
| N. FACE 62 5303 1157 N. FACE 62 62 62 60 60 N. FACE 66 NYT 130 | HAMBURG U. | | FARMFEELD | | |

Transportation

| | | notes: | | | | | | | |
|--------------------|--------------------|--|---|----------------------------|----------------|-----------------|--------------|--|--|
| AFFIX SEAL: ON: | ALTERED BY: ON: | | EW YORK STATE PLANE COORDINATE SYSTEM, WESTERN ZONE, TRANSVE | RSE MERCATOR PROJECTION OF | THE NORTH AMER | ICAN DATUM OF 1 | .983 (2011). | | |
| | | THE VERTICAL DATUM HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12). | | | | | | | |
| | | COORDINATES, BEARINGS AND DISTANCES SHOWN ARE GRID. UNITS A | ARE IN SURVEY FEET. THE COMBINED SCALE FACTOR FOR THE PROJECT | T IS 0.99991151. | | | | | |
| | | AS-BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DI | | |

CULVERTS 3.11 BRIDGES ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER DESCRIPTION OF ALTERATIONS: NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 D SITE 6: CULVERT C540063 UTILITY QUALITY LEVEL D TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, CONTROL LINE TIES DRAWING NO. ALG 6-02 WEST SENECA, ORCHARD PARK AND EDEN SHEET NO. COUNTIES: NIAGARA AND ERIE REGION: 05 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NEW YORK STATE OF OPPORTUNITY. Department of Transportation

FILE NAME = 581311_CPH_ALG_6-02.dgn DATE/TIME = 14-MAY-2021 10:09 USER = pmorelock

| + | HALLER | | |
|--------------------------------|---|--------------|-------|
| | PROJECT MANAGER R.F. SCHALLER | | |
| | CHECK R.S. AMBROSE | | |
| | DRAFTING P.J. MORELOCK JR. CHECK R.S. AMBROSE | | |
| | CHECK R.S. AMBROSE | | |
| | DESIGN P.J. MORELOCK JR. | | |
| | JOB MANAGER R.S. AMBROSE | AFFIX ON: | SEAL: |
| 14-MAY-2021 10:09 pmorelock | VISOR R.F. SCHALLER JO | UN: | |

| Benchma | ark Record | |
|---|---|--|
| RAVI ENGINEERING | P.I.N.: 5812.31.121 CONTRACT # D031339 | Date Set: 09/19/2017 Crew: T. Stein |
| & LAND SURVEYING, P.C. 2110 South Clinton Avenue, Suite 1 Rochester, New York 14618 | County: Erie | State: New York |
| TL: (585) 223-3660 FX: (585) 697-1764 | Surveying Method: GPS X Units: Meters | Conventional X Feet X |
| Vertical Datum: NAVD88 | Benchmark: | 1 |
| Elevation conventionally measured and derived from GPS | Elevation = | 810.90' |
| Description: | LY FACE OF UTILITY POLE 66 NY 3, U.S. ROUTE 62, LOCATED APPR | T 135 NM 99 ON THE ROX. 7 FEET |
| Monument Type: Railroad Spike All Ties: Direct ☐ Leveled 🔀 | | Sketch Not to Scale |
| | | NM 98 NYT 132 |
| FIRM FIELD OF PAREMENT COLING. CENTER STRIPE | | 2153 |
| HAMBURG OF PAULINE TOUTE OF PAULINE CP 7 | 5 - BN •1 66 NYT 135 | |
| Edg. of | ∕ 66 NYT 135 NM 99 | |

| RAVI ENGINEERING | P.I.N.: 5812.31.121 CONTRACT # D031339 | Date Set: 09/19/201' Crew: T. Stein |
|--|---|--|
| & LAND SURVEYING, P.C. 2110 South Clinton Avenue, Suite 1 Rochester, New York 14618 | County: Erie | State: New York |
| TL: (585) 223-3660 FX: (585) 697-1764 | Surveying Method: GPS X Units: Meters | Conventional X Feet X |
| Vertical Datum: NAVD88 | Benchmark: | 2 |
| Elevation conventionally measured and derived from GPS | Elevation = | 813.37' |
| SIDE OF HAMBURG - NORTH COLLINS, S.H. 523, U.S. ROUT AND RAIL FENCE. Monument Type: Railroad Spike All Ties: Direct ☐ Leveled ☒ | E 62, LOCATED APPROX. 34 FEE | Sketch Not to Sc |
| POST & RAIL FÉNCE | BM *8 NM 91-1 CENT STRI | ER |

| | NOTES: |
|-------------|---|
| ALTERED BY: | NOTES. |
| ON: | THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, WESTERN ZONE, TRANSVERSE MERCATOR PROJECTION OF THE NORTH AMERICAN DATUM OF 1983 (2011). |
| | THE VERTICAL DATUM HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12). |
| | COORDINATES, BEARINGS AND DISTANCES SHOWN ARE GRID. UNITS ARE IN SURVEY FEET. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 0.99991151. |
| | |

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|---|---|--------------------------------|----------------|----------|---|------------------------------|
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| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA, ORCHARD PARK AND EDEN | _ | | | BENCHMARKS | DRAWING NO. ALG 6-03 |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | <u> </u> | | | | SHEET NO. |
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| MANAGER | |
|-----------|------------------------|
| - FRUJECI | |
| | ITEM 304 15010005 (CV) |

ITEM 304.15010005 (CY) SUBBASE COURSE, OPTIONAL TYPE (MODIFIED)

| | C540063 NY ROUTE 62 | | | | |
|-----------|---------------------|-------|--|--|--|
| 0T4 T0N | SUBE | BASE | | | |
| STATION | (SF) | (CY) | | | |
| 778+50.00 | 53.44 | N/A | | | |
| 778+62.00 | 53.44 | 23.75 | | | |
| 778+78.52 | 53.37 | 32.68 | | | |
| 778+89.40 | 55.28 | 21.89 | | | |
| 779+06.71 | 57.12 | 36.03 | | | |
| 779+12.55 | 57.04 | 12.35 | | | |
| 779+23.60 | 54.83 | 22.89 | | | |
| 779+33.00 | 54.83 | 19.09 | | | |
| 779+50.00 | 62.54 | 36.95 | | | |
| TOTALS: | 501.9 | 206.0 | | | |

| ITEM 201.07000004 (SY) | | | | | | | |
|------------------------|------------|--------|------|----------------|---------------|----------|--------|
| CLEARING AND GRUBBING | | | | | | | |
| FROM STATION | TO STATION | OFFSET | SIDE | LENGTH (FT) | WIDTH (FT) | SF | SY |
| C 1+36.00 | C 1+61.50 | 45 | RT | 25.50 | 33.73 | 860.12 | 95.57 |
| C 2+57.00 | C 3+08.00 | 50 | LT | 51.00 | 62.60 | 3,192.60 | 354.73 |
| | | | | | | TOTAL: | 451.00 |

| ITEM 209.1003 (SY) | | | | | | | |
|---|------------|--------|------|----------------|---------------|--------------|--------------|
| SEED AND MULCH TEMPORARY | | | | | | | |
| FROM STATION | TO STATION | OFFSET | SIDE | LENGTH (FT) | WIDTH (FT) | AREA (SF) | AREA (SY) |
| REFER TO ITEM 610.1601 WORKUP <u>610.1601</u> | | | | | <u>1601</u> | | |
| | | | | | | TOTAL: | 407.00 |

| ITEM 207.21 (SY) | | | | | | | |
|--|-----------------------|--------|--------|-------|--------------|--------------|--|
| | GEOTEXTILE SEPARATION | | | | | | |
| FROM STATION TO STATION SIDE LENGTH WIDTH (FT) | | | | | AREA (SF) | AREA (SY) | |
| 778+50.00 | 779+50.00 | | 100.00 | 48.55 | 4,855.00 | 539.44 | |
| | | TOTAL: | | | | | |

| ITEM 207.20 (SY) | | | | | | | |
|---|--------------------|--------|-------|----------|--------|--|--|
| | GEOTEXTILE BEDDING | | | | | | |
| FROM STATION TO STATION LENGTH WIDTH AREA AREA (SY) | | | | | | | |
| | C540063 CULVERT | | | | | | |
| C 1+60.37 | C 2+53.37 | 105.17 | 14.67 | 1,542.42 | 171.38 | | |
| WINGW | /ALL #1 | 9.15 | 6.25 | 57.16 | 6.35 | | |
| WINGWALL #2 17.43 6.25 | | | 6.25 | 108.91 | 12.10 | | |
| WINGWALL #3 15.06 6.25 94.09 10.45 | | | | | 10.45 | | |
| WINGWALL #4 15.24 6.25 95.22 10.58 | | | | | | | |
| | | | | TOTAL: | 211.00 | | |

| ITEM 203.07 (CY) SELECT GRANULAR FILL | | | | | |
|---------------------------------------|-----------------|-------|--|--|--|
| | C540063 CULVERT | | | | |
| 0.T4.T.0.V | SELECT | FILL | | | |
| STATION | (SF) | (CY) | | | |
| C 1+36.38 | 0.00 | N/A | | | |
| C 1+41.38 | 0.00 | 0.00 | | | |
| C 1+41.38 | 0.00 | N/A | | | |
| C 1+42.42 | 0.00 | 0.00 | | | |
| C 1+50.00 | 0.00 | 0.00 | | | |
| C 1+61.38 | 0.00 | 0.00 | | | |
| C 1+62.88 | 76.00 | 2.11 | | | |
| C 1+63.88 | 64.67 | 2.61 | | | |
| C 1+82.33 | 79.33 | 49.20 | | | |
| C 1+87.66 | 79.33 | 15.66 | | | |
| C 1+94.70 | 79.33 | 20.68 | | | |
| C 2+06.76 | 79.33 | 35.43 | | | |
| C 2+18.82 | 79.33 | 35.43 | | | |
| C 2+26.86 | 79.33 | 23.62 | | | |
| C 2+30.75 | 79.33 | 11.43 | | | |
| C 2+49.88 | 64.67 | 51.01 | | | |
| C 2+50.89 | 76.00 | 2.63 | | | |
| C 2+52.38 | 76.00 | 4.19 | | | |
| C 2+53.38 | 0.00 | 1.41 | | | |
| C 2+75.20 | 0.00 | 0.00 | | | |
| C 3+00.00 | 0.00 | 0.00 | | | |
| C 3+02.38 | 0.00 | 0.00 | | | |
| C 3+02.38 | 0.00 | N/A | | | |
| C 3+07.38 | 0.00 | 0.00 | | | |
| TOTALS: | 912.7 | 256.0 | | | |

| AFFIX SEAL: ON: | ALTERED BY: ON: | |
|--------------------|--------------------|--|
| | | |
| | | |

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | | | | | | | |
|---|--|--|--|--|--|--|--|
| | | | | | | | |

| LARGE CULVERT REPLACEMENTS AND REHABILITATIONS |
|--|
| NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 |
| TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, |
| WEST SENECA, ORCHARD PARK AND EDEN |
| COUNTIES, NIACADA AND EDIE DECIONA |

PIN 5813.11 BRIDGES UTILITY QUALITY LEVEL D

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED C540063 MISCELLANEOUS TABLE 6-01

CONTRACT NUMBER DRAWING NO. MST 6-01 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



ALTERED BY: ON:

| ITEM 402.000013 | | | | | | | |
|--|--------------------|-------|-----------------------|--|--|--|--|
| PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA ITEMS | | | | | | | |
| HMA ITEMS | QUANTITY (TONS) | (QAF) | QUALITY UNITS (QU) | | | | |
| TOP COURSE | 107 | 0.05 | 5.35 | | | | |
| BINDER COURSE | 49 | 0.05 | 2.45 | | | | |
| BASE COURSE | 176 | 0.05 | 8.8 | | | | |
| SHIM | 0 | 0.05 | 0 | | | | |
| T & L | 306 | 0.05 | 15.3 | | | | |
| PERMEABLE BASE | 0 | 0.05 | 0 | | | | |
| TOTAL (QU): 32 | | | | | | | |

| ITEM 407.0102 (GAL) | | | | | | | | |
|---------------------|------------|----------------|---------------|--------------|----------------|--------|--------|--|
| TACK COAT - DILUTED | | | | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | AREA (SY) | # OF LAYERS | RATE | GALS | |
| | NY RO | UTE 62 MI | LL AND O | VERLAY | | | | |
| 777+50.00 | 778+50.00 | 100.00 | 39.00 | 433.33 | 1.00 | 0.10 | 43.33 | |
| 779+50.00 | 780+50.00 | 100.00 | 39.00 | 433.33 | 1.00 | 0.10 | 43.33 | |
| | NY ROUTE 6 | 2 FULL DE | PTH REC | ONSTRUC | TION | | | |
| 778+50.00 | 779+50.00 | 100.00 | 39.00 | 433.33 | 4.00 | 0.06 | 104.00 | |
| | NY I | ROUTE 62 | STAGE 1 | WZTC | | | | |
| 774+45.00 | 784+15.00 | 970.00 | 10.00 | 1,077.78 | 2.00 | 0.06 | 129.33 | |
| | - | | | | | TOTAL: | 320.00 | |

| ITEMS 402.097204 (TON) | | | | | | | | |
|---|--------------|-----------|----------------|---------------|---------------|--------|--------|--|
| 9.5 F2 TOP COURSE HMA, 70 SERIES COMPACTION | | | | | | | | |
| FROM STATION | FROM STATION | SIDE | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS | |
| | NY ROUTE 6 | 2 MILL AI | ND OVERLA | Y | | | | |
| 777+50.00 | 778+50.00 | | 100.00 | 39.33 | 1.50 | 18.21 | 35.37 | |
| 779+50.00 | 780+50.00 | | 100.00 | 39.33 | 1.50 | 18.21 | 35.37 | |
| NY ROUTE 62 FULL DEPTH RECONSTRUCTION | | | | | | | | |
| 778+50.00 | 779+50.00 | | 100.00 | 39.33 | 1.50 | 18.21 | 35.37 | |
| | | | | | | TOTAL: | 107.00 | |

| ITEMS 402.128904 (TON) | | | | | | | | |
|--|--------------------------|------|----------------|---------------|---------------|--------|--------|--|
| 12.5 F9 T&L OR SHOULDER COURSE HMA, 80 SERIES COMPACTION | | | | | | | | |
| FROM STATION | TO STATION | SIDE | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | СҮ | TONS | |
| | NY ROUTE 62 STAGE 1 WZTC | | | | | | | |
| 774+45.00 | 784+15.00 | RT | 970.00 | 10.00 | 5.25 | 157.18 | 305.31 | |
| | | | | | | TOTAL: | 306.00 | |

| ITEMS 402.377904 (TON) | | | | | | | | |
|---|------------|------|----------------|---------------|---------------|--------|--------|--|
| 37.5 F9 BASE COURSE HMA, 70 SERIES COMPACTION | | | | | | | | |
| FROM STATION | TO STATION | SIDE | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS | |
| NY ROUTE 62 | | | | | | | | |
| 778+50.00 | 779+50.00 | | 100.00 | 40.67 | 7 | 87.86 | 175.30 | |
| | | | | | | TOTAL: | 176.00 | |

| ITEMS 402.197902 (TON) | | | | | | | | |
|---|---------------------------------------|------|----------------|---------------|---------------|--------|-------|--|
| 19 F9 BINDER COURSE HMA, 70 SERIES COMPACTION | | | | | | | | |
| FROM STATION | TO STATION | SIDE | LENGTH (FT) | WIDTH (FT) | DEPTH (IN) | CY | TONS | |
| | NY ROUTE 62 FULL DEPTH RECONSTRUCTION | | | | | | | |
| 778+50.00 | 779+50.00 | | 100.00 | 40.00 | 2.00 | 24.69 | 48.63 | |
| | | | | | | TOTAL: | 49.00 | |

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | CONTRACT NUMBER | |
|---|--|-------------------------|---------|----------|---|----------------------|--|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | 1 D | |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | | | | C540063 | DDAWING NO MCT C OO | |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 6-02 | DRAWING NO. MST 6-02 | |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | | SHEET NO. | |
| T IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, O ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR HALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. Department of Transportation | | | | | | | |

| ITEM 552.2003 (LF) | |
|---|--|
| HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED) | |

| PILE NO. | STATION | OFFSET | SIDE | DEPTH (LF) |
|----------|-----------|--------|--------|---------------|
| 6-1 | 778+69.10 | 1.515 | RT | 25 |
| 6-2 | 778+77.10 | 1.515 | RT | 43 |
| 6-3 | 778+85.10 | 1.515 | RT | 49 |
| 6-4 | 778+93.10 | 1.515 | RT | 49 |
| 6-5 | 779+01.10 | 1.515 | RT | 49 |
| 6-6 | 779+10.27 | 1.515 | RT | 49 |
| 6-7 | 779+18.27 | 1.515 | RT | 49 |
| 6-8 | 779+26.27 | 1.515 | RT | 43 |
| 6-9 | 779+37.27 | 1.515 | RT | 25 |
| | - | | TOTAL: | 381 |

| ITEM | 552.22 | 03 (LF | =) |
|------|--------|--------|----|
|------|--------|--------|----|

SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED)

| PILE NO. | STATION | OFFSET | SIDE | LENGTH (LF) |
|----------|-----------|--------|--------|----------------|
| 6-1 | 778+69.10 | 1.515 | RT | 25 |
| 6-2 | 778+77.10 | 1.515 | RT | 43 |
| 6-3 | 778+85.10 | 1.515 | RT | 49 |
| 6-4 | 778+93.10 | 1.515 | RT | 49 |
| 6-5 | 779+01.10 | 1.515 | RT | 49 |
| 6-6 | 779+10.27 | 1.515 | RT | 49 |
| 6-7 | 779+18.27 | 1.515 | RT | 49 |
| 6-8 | 779+26.27 | 1.515 | RT | 43 |
| 6-9 | 779+37.27 | 1.515 | RT | 25 |
| | | | TOTAL: | 381 |

ALTERED BY: ON:

ITEM 553.030003 (EA)

TEMPORARY WATERWAY DIVERSION STRUCTURE

| PLAN SHEET | FROM STATION | TO STATION | QTY. (EA) |
|---------------|-----------------|------------|--------------|
| GNP 6-01 | C 1+33.00 | C 3+08.00 | 1 |
| | | TOTAL: | 1 |

ITEM 554.3001 (SF)

GEOSYNTHETIC REINFORCED SOIL SYSTEM WALL -**WELDED WIRE FORM**

| PLAN SHEET | FROM STATION | TO STATION | LENGTH (FT) | HEIGHT (FT) | AREA (SF) |
|---------------|--------------|------------|----------------|----------------|-----------|
| CUL 6-11 | 778+85.10 | 779+10.27 | 25 | 20 | 503.40 |
| | | | | TOTAL: | 504 |

| ITEM 490.10 (SY) | | | | | | |
|------------------|---|----------------|------------|-----------|--|--|
| PRODUCTION | PRODUCTION COLD MILLING BITUMINOUS CONCRETE | | | | | |
| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) | AREA (SY) | | |
| 777+50.00 | 778+50.00 | 100 | 39.00 | 433.33 | | |
| 779+50.00 | 780+50.00 | 100 | 39.00 | 433.33 | | |
| _ | | | TOTAL: | 867.00 | | |

ITEM 552.230203 (SF)

UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL (SERIALIZED)

| | | | | , | | | |
|---------------|--------------|------------|--------|------|----------------|----------------|-----------|
| PLAN SHEET | FROM STATION | TO STATION | OFFSET | SIDE | HEIGHT (LF) | LENGTH (LF) | AREA (SF) |
| | 778+59.60 | 778+69.10 | 1.515 | RT | 6.50 | 9.50 | 30.88 |
| | 778+69.10 | 779+37.27 | 1.515 | RT | 20.00 | 65.17 | 1,303.40 |
| | 779+37.27 | 779+46.77 | 1.515 | RT | 5.50 | 9.50 | 26.13 |
| | | | | | | TOTAL: | 1,361 |

ITEM 418.7603 (LF)

ASPHALT PAVEMENT JOINT ADHESIVE

| FROM STATION | TO STATION | LENGTH (FT) | WIDTH (FT) (Avg) | AREA (SY) | CURB LINE LEFT (FT) | CURB LINE RIGHT (FT) | No. OF LANES | LONGITUDINAL JOINTS (FT) | C. L. JOINTS | BUTT JOINTS | TOTAL (LF) |
|-----------------|---------------|----------------|------------------------|--------------|---------------------------|----------------------------|-----------------|--------------------------------|-----------------|----------------|---------------|
| 777+50.00 | 780+50.00 | 300.00 | 39 | 1,300 | 300.00 | 300.00 | 2 | 300 | 1 | 2 | 1,278 |
| | | | | | | | | | | TOTAL: | 1,278 |

PIN 5813.11

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

ARGE CULVERT REPLACEMENTS AND REHABILITATIONS NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, WEST SENECA, ORCHARD PARK AND EDEN COUNTIES: NIAGARA AND ERIE

BRIDGES UTILITY QUALITY LEVEL D

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED C540063 MISCELLANEOUS TABLE 6-03

DRAWING NO. MST 6-03 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

CONTRACT NUMBER

ALTERED BY: ON:

| ITEM 595.50000018 (SF) | | | | | | | |
|---|------------------|--------|-----------|----|------|--------|--------|
| SHEET-APPLIED WATERPROOFING MEMBRANE | | | | | | | |
| FROM STATION TO STATION LENGTH (FT) ASSUMED SEGMENT LENGTH # OF JOINT WIDTH (FT) AREA (SF) | | | | | | | |
| | | C54006 | 3 CULVERT | | | | |
| C 1+61.37 | C 2+52.37 | 91.00 | 6.50 | 13 | 2.0 | 26.7 | 693.37 |
| | C540063 HEADWALL | | | | | | |
| C 1+ | 61.44 | 1.50 | | | 8.67 | | 13.00 |
| C 2+52.43 | | 1.50 | | | 8.67 | | 13.00 |
| | | | | | | TOTAL: | 720 |

| ITEM 606.18 (LF) | | | | | | |
|---------------------------------------|------------|------|----------|----------------|--|--|
| WEAK POST, CORRUGATED BEAM GUIDE RAIL | | | | | | |
| FROM STATION | TO STATION | SIDE | COMMENTS | LENGTH (FT) | | |
| 777+80.77 | 780+05.77 | RT | | 225.00 | | |
| 777+55.31 | 779+92.81 | LT | | 237.50 | | |
| TOTAL: | | | | | | |

| ITEM 606.22 (EA) | | | | | |
|---|------|----------|--------------|--|--|
| ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING | | | | | |
| STATION | SIDE | COMMENTS | QTY. (EA) | | |
| 777+80.77 | RT | | 1 | | |
| 780+05.77 | RT | | 1 | | |
| 777+55.31 | LT | | 1 | | |
| 779+92.81 | LT | | 1 | | |
| | | TOTAL: | 4 | | |

| ITEM 603.63070715 (L | F) |
|----------------------|----|
|----------------------|----|

PRECAST CONCRETE BOX CULVERT, 7 FOOT SPAN, Y7 FOOT RISE FILL HT <24"

| PLAN SHEET | DRAINAGE NO. | FROM STATION | TO STATION | LENGTH (FT) |
|---------------|--------------|--------------|------------|----------------|
| | | C 1+61.50 | C 2+52.50 | 91.00 |
| | | | TOTAL: | 91.00 |

| ITEM 610.0501 (LB) | | | | | |
|--------------------|-------------------------------|--|--|--|--|
| FERTILIZER | | | | | |
| LOCATION | AREA (SF) | FERTILIZER TYPE A* (1LB NITROGEN / 1000 SF) | | | |
| C530075 ROADWAY | 3,663 | 3.66 | | | |
| S | 3.66 | | | | |
| 1 | 1 | | | | |
| TOTAL LE | S OF FERTILIZER (50 lb bags): | 50 | | | |

ITEM 603.67000001 (SY) PRECAST CONCRETE WINGWALL UNITS FOR BOX CULVERTS LENGTH | HEIGHT **AREA** FROM STATION **LOCATION** TO STATION (LF) (SY) (LF) WINGWALL #1 8.00 10.63 9.00 WINGWALL #2 13.33 24.00 16.00 WINGWALL #3 11.00 10.93 13.00 WINGWALL #4 14.00 13.33 21.00 **TOTAL:** 67.00

ITEM 604.300611 (LF) **RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME DRAINAGE LENGTH PLAN** TG INV. **TYPE STATION OFFSET** SIDE SHEET NO. ELEV. ELEV. (FT) 778+95.69 14 FT RT 789.04 780.04 9.00

TOTAL:

9.00

| AS-BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|--|--|-------------------------|---------|----------|---|--|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | | D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | UTILITY QUALITY LEVEL D | | | C540063 | |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | | MISCELLANEOUS TABLE 6-04 | DRAWING NO. MST 6-04 |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | | SHEET NO. |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. | | | | | | NEW YORK STATE OF OPPORTUNITY. Department of Transportation |

ALTERED BY: ON:

| ITEM 606.71 (LF) | | | | | | | |
|------------------|---|------|----------|----------------|--|--|--|
| REMOVING ANI | REMOVING AND DISPOSING CORRUGATED BEAM GUID RAILING | | | | | | |
| FROM STATION | TO STATION | SIDE | COMMENTS | LENGTH (FT) | | | |
| 777+43.31 | 779+55.81 | RT | | 212.50 | | | |
| 777+52.38 | 779+14.88 | LT | | 162.50 | | | |
| | _ | | TOTAL: | 375.00 | | | |

| ITEM 619.04 (EA) | | | | | | |
|------------------------|----------|--------------------------|----------------|--------------|--|--|
| ٦ | TYPE III | CONSTRUCTION BARRICAD | ES | | | |
| STATION | SIDE | WZTC COMMENTS | LENGTH (LF) | QTY. (EA) | | |
| | | NY RTE 62 STAGE 1&2 WZTC | | | | |
| 775+56.00 | RT | DWY CLOSED | 16 | 4 | | |
| 777+36.00 | LT | DWY CLOSED | 16 | 4 | | |
| 780+59.00 | LT | DWY CLOSED | 20 | 5 | | |
| 783+48.00 | LT | DWY CLOSED | 60 | 15 | | |
| | | NY RTE 62 STAGE 1 WZTC | | | | |
| 776+64.00 | LT | LANE CLOSED | 12 | 3 | | |
| 781+91.00 | LT | LANE CLOSED | 12 | 3 | | |
| 782+25.00 | LT | LANE CLOSED | 20 | 5 | | |
| NY RTE 62 STAGE 2 WZTC | | | | | | |
| 776+64.00 | RT | LANE CLOSED | 16 | 4 | | |
| | | TOTAL: | 172 | 43 | | |

| ITEM 606.7910 (EA) REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAMGUIDE | | | | | | | |
|--|------|----------|-----------|--|--|--|--|
| RAILING AND MEDIAN BARRIER | | | | | | | |
| STATION | SIDE | COMMENTS | QTY. (EA) | | | | |
| 777+43.31 | RT | | 1 | | | | |
| 779+55.81 | RT | | 1 | | | | |
| 777+52.38 | LT | | 1 | | | | |
| 779+14.88 | LT | | 1 | | | | |
| TOTAL: 4 | | | | | | | |

| ITEM 610.1601 (SY) | | | | | | |
|-------------------------------|------------------|-------|--|--|--|--|
| TURF ESTABLISHMENT - ROADSIDE | | | | | | |
| C54 | 0063 NY ROUTE 62 | | | | | |
| CTA TION | TUF | RF | | | | |
| STATION | (LF) | (SY) | | | | |
| 778+50.00 | 43.80 | N/A | | | | |
| 778+62.00 | 43.80 | 58.40 | | | | |
| 778+78.52 | 45.10 | 81.59 | | | | |
| 778+89.40 | 38.20 | 50.35 | | | | |
| 779+06.71 | 35.38 | 70.76 | | | | |
| 779+12.55 | 35.39 | 22.96 | | | | |
| 779+23.60 | 38.21 | 45.18 | | | | |
| 779+33.00 | 38.21 | 39.91 | | | | |
| 779+50.00 | 1.75 | 37.74 | | | | |
| TOTALS: | 319.8 | 407.0 | | | | |

| ITEM 610.1402 (CY) TOPSOIL - ROADSIDE | | | | |
|--|--------------------|------|--|--|
| C | 540063 NY ROUTE 62 | 2 | | |
| OTA TON | TOPS | SOIL | | |
| STATION | (SF) | (CY) | | |
| 778+50.00 | 14.60 | N/A | | |
| 778+62.00 | 14.60 | 6.49 | | |
| 778+78.52 | 15.03 | 9.06 | | |
| 778+89.40 | 12.73 | 5.59 | | |
| 779+06.71 | 11.79 | 7.86 | | |
| 779+12.55 | 11.79 | 2.55 | | |
| 779+23.60 | 12.73 | 5.02 | | |
| 779+33.00 | 12.73 | 4.43 | | |
| 779+50.00 | 0.58 | 4.19 | | |
| TOTALS: | 106.6 | 46.0 | | |

| L | | | | | | | | |
|---|--|--|-------------------------|---------|----------|---------------------------------------|-------|------------------------------|
| | AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CULVERTS | ALL DIMENSIONS IN f† UNLESS OTHERWISE | NOTED | CONTRACT NUMBER |
| | DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | C540063 MISCELLANEOUS TABLE 6-05 | | D |
| | | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | J CHETH GONETH LEVEL D | | | | | DDAWING NO MOT COF |
| | | WEST SENECA, ORCHARD PARK AND EDEN | | | | | | DRAWING NO. MST 6-05 |
| | | COUNTIES: NIAGARA AND ERIE REGION: 05 | | | | | | SHEET NO. |
| | IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. | | | | | | STA' | Department of Transportation |

FILE NAME = 581311_CPH_MST_6-05.dgn DATE/TIME = 14-MAY-2021 10:10 H USER = pmorelock

| 61 | 9 | .1 | 1 | 1 | 1 | 1 | 2 | (EA |) |
|----|---|----|---|---|---|---|---|-----|---|
| | | | | | | | | | |

(PVMS) STANDARD SIZE - LINE OR CHARACTER MATRIX (LED) NO OPTIONAL EQUIPMENT SPECIFIED, CELLULAR **COMMUNICATIONS**

| STATION | COMMENTS | |
|---------|---------------------------------------|----|
| | SITE 2: C530038 UNDER NY 93 | 2 |
| | SITE 4: C530075 UNDER NY 277 | 4 |
| | SITE 6: C540063 UNDER NY 62 | 2 |
| | | |
| | SITE 1: C550004 UNDER NY 18 | |
| | SITE 3: CA00252 & C530138 UNDER I-990 | 2 |
| | SITE 5: C530008 UNDER US 20 | |
| | | |
| | SITES 7-12: SMALL CULVERTS | 4 |
| | TOTAL: | 14 |

ITEM 619.1711 (LF) **TEMPORARY POSITIVE BARRIER - CATEGORY 1 (PINNING** PROHIBITED) **LENGTH** FROM STATION TO STATION **COMMENTS** (FT) NY RTE 62 STAGE 2 WZTC 40.00 775+71.00 776+11.00 480.00 776+90.00 781+70.00

| ITEM 619.17060008 (LF) | | | | | |
|---------------------------|-------------|---------------|----------------|--|--|
| LINEAR DELINEATION SYSTEM | | | | | |
| FROM STATION | TO STATION | COMMENTS | LENGTH (FT) | | |
| | NY RTE 62 S | TAGE 1&2 WZTC | | | |
| 775+51.00 | 776+11.00 | | 60.00 | | |
| 776+90.00 | 781+90.00 | | 500.00 | | |
| | | TOTAL: | 560.00 | | |

| ITEM 619.0901 (LF) | | | | | | | | |
|--------------------|---|--------------------------|----------------|-------------|---------------------|--|--|--|
| TEMPORA | ARY PAVEME | NT MARKINGS | s, STRII | PES, TI | RAFFIC | | | |
| | | PAINT | T | | T = | | | |
| FROM STATION | TO STATION | OFFSET/SIDE | LENGTH (FT) | | PAID LENGTH (LF) | | | |
| | NY RO | DUTE 62 STAGE 1 WZ | | | (| | | |
| | 4" Yellow | Full Barrier = (4"/4")*2 | = 2.00 | | | | | |
| 762+92.00 | 767+45.00 | CL | 453.00 | 2.00 | 906 | | | |
| 784+85.00 | 789+85.00 | CL | 500.00 | 2.00 | 1,000 | | | |
| | 4" White | e Edge Line = (4"/4") = | 1.00 | • | • | | | |
| 775+40.00 | 783+39.00 | LT | 701.00 | 1.00 | 701 | | | |
| 4" V | Vhite Dotted Lane Lir | ne = 3' Stripes w/ 9' Sp | aces = (31/ | 12') = 0.25 | | | | |
| 783+39.00 | 783+71.00 | LT | 32.00 | 0.25 | 8.00 | | | |
| | 18" S | top Bar = (18"/4") = 4.5 | 50 | | | | | |
| 774+ | 45.00 | RT | 9.00 | 4.50 | 40.50 | | | |
| 784+ | 85.00 | LT | 10.00 | 4.50 | 45.00 | | | |
| | | STAGE 2 WZTC | | | | | | |
| | 4" Yellow | Full Barrier = (4"/4")*2 | = 2.00 | | _ | | | |
| 769+91.00 | 774+45.00 | CL | 454.00 | 2.00 | 908.00 | | | |
| 783+85.00 | 788+85.00 | CL | 500.00 | 2.00 | 1,000.00 | | | |
| | 4" White | e Edge Line = (4"/4") = | 1.00 | | | | | |
| 774+95.00 | 783+15.00 | 19 FT LT | 820.00 | 1.00 | 820.00 | | | |
| 775+40.00 | 776+38.00 | 6 FT LT | 98.00 | 1.00 | 98.00 | | | |
| 776+71.00 | 782+71.00 | 7 FT LT | 600.00 | 1.00 | 600.00 | | | |
| 4" V | 4" White Dotted Lane Line = 3' Stripes w/ 9' Spaces = (3'/12') = 0.25 | | | | | | | |
| 776+41.00 | 776+71.00 | 7 FT LT | 30.00 | 0.25 | 7.50 | | | |
| | 18" Stop Bar = (18"/4") = 4.50 | | | | | | | |
| 774+ | 45.00 | RT | 9.00 | 4.50 | 40.50 | | | |
| 783+ | 85.00 | LT | 10.00 | 4.50 | 45.00 | | | |

| JOB MA | AFFIX SEAL: ON: | ALTERED BY: ON: | |
|-----------|--------------------|--------------------|------------------------|
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| 띮 | | | |
| SCHALLER | | | AS-BUILT REVISION OF A |
| 냚 | | | DESCRIPTION OF |
| JPERVISOR | | | |

| S-BUILT REVISIONS | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS |
|----------------------------|--|
| ESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, |
| | WEST SENECA, ORCHARD PARK AND EDEN |
| | COUNTIES: NIAGARA AND ERIE REGION: 05 |
| | |

TOTAL:

520.00

PIN 5813.11 BRIDGES CULVERTS ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER UTILITY QUALITY LEVEL D C540063 MISCELLANEOUS TABLE 6-06 DRAWING NO. MST 6-06 SHEET NO.

TOTAL:

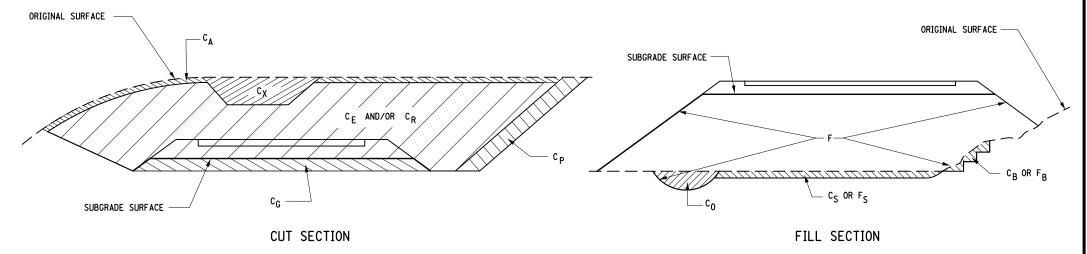
6,220

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



| SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY) | | | | | | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|--|--|--|--|--|
| SOURCE | E | EXCAVATION | ITEM 203.02 | ITEM 203.03 | | | | | | |
| | T _E | c _R | TU | СT | F _T | | | | | |
| C540063 CULVERT | | | | | 1423.4 | | | | | |
| C540063 LT WINGWALL | | | | | 373.7 | | | | | |
| C540063 RT WINGWALL | | | | | 345.2 | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| TOTALS | | | | | 2142.0 | | | | | |

| SUMMARY OF TRENCH AND CULVERT EXCAVATION (ITEM 206.0201 ONLY) | | | | | | | | | |
|---|------|----------|----------|--|--|--|--|--|--|
| SOURCE | EXCA | /ATION | ITEM | | | | | | |
| SOURCE | ROCK | NON-ROCK | 206.0201 | | | | | | |
| C540063 NY RTE 62 | | | 155.9 | | | | | | |
| C540063 CULVERT | | | 2954.4 | | | | | | |
| C540063 LT WINGWALL | | | 373.7 | | | | | | |
| C540063 RT WINGWALL | | | 345.2 | | | | | | |
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| | | | | | | | | | |
| TOTALS | | | 3829 | | | | | | |



DEFINITIONS:

 ${\tt C_B}$ - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).

 $\mathbf{C}_{\mathbf{G}}$ - EXCAVATION FOR SUBGRADE IMPROVEMENT.

 C_{P} - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.

 $c_{
m E}$ - Portion of cut assumed to be earth suitable for embankment construction, excluding $c_{
m G}$ and $c_{
m P}$.

 T_{E} - $(C_{B}$ + C_{G} + C_{P} + C_{E}) Total Earth excavation assumed suitable for embankment construction.

 $\boldsymbol{c_{A}}$ - excavation of topsoil (unsuitable material) in cut.

 c_{S} - excavation of topsoil (unsuitable material) under embankment.

 C_X - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP

 ${\tt C_0}$ - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP

 T_U - $(C_A$ + C_S + C_X + C_0) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.

 \boldsymbol{c}_{R} - Portion of cut assumed to be rock, including \boldsymbol{c}_{G} if applicable.

 $C_T - (T_E + T_U + C_R)$ TOTAL EXCAVATION.

DEFINITIONS:

 ${\sf F}_{\sf R}$ - FILL REQUIRED TO REPLACE BENCHES.

 $\boldsymbol{F}_{\boldsymbol{S}}$ - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.

F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.

 F_T - $(F_B + F_S + F)$ TOTAL FILL REQUIRED.

 $\rm T_A$ - (T_E \times F_E + C $_{\rm R}\times$ F_R) THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.

F_E - SHRINKAGE FACTOR FOR EARTH

 $\mathbf{F}_{\mathbf{R}}$ - SWELL FACTOR FOR ROCK

NOTES:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.

203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL

203.03 EMBANKMENT IN PLACE

206.0201 TRENCH AND CULVERT EXCAVATION

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS PIN 5813.11 NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | | BRIDGES | CULVERTS C550004 | ALL DIMENSIONS IN yd³ UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|--|---|-------------------------|---------|---------------------|--|----------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | C530038 | EARTHWORK SUMMARY SHEET | i D |
| | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | | | CA00252 C530138 | C540063 | DDAWING NO FOR C OA |
| | WEST SENECA, ORCHARD PARK AND EDEN | | | C530075 C530008 | | DRAWING NO. ESS 6-01 |
| | COUNTIES: NIAGARA AND ERIE REGION: | 05 | | C540063 | | SHEET NO. |

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

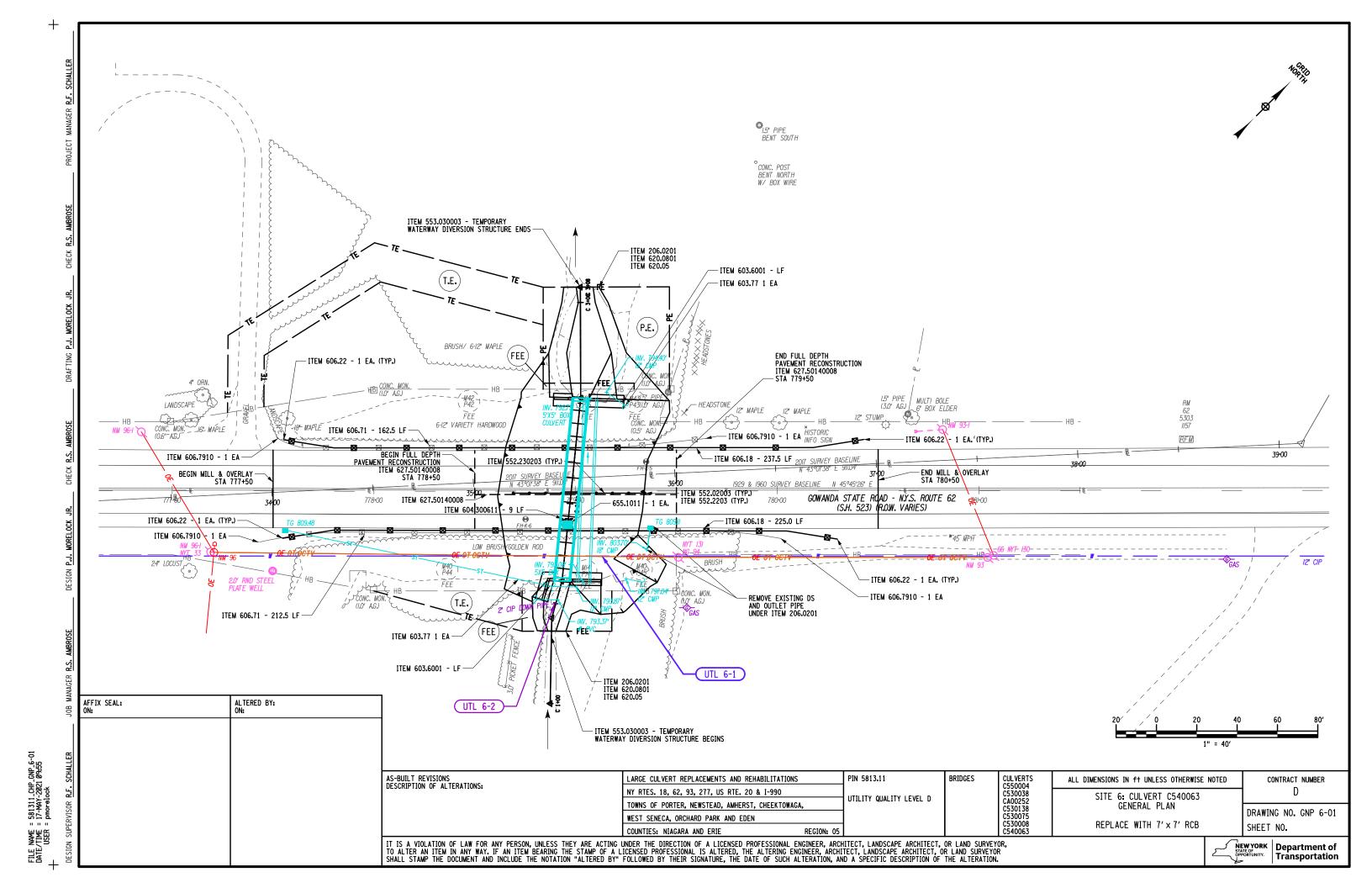
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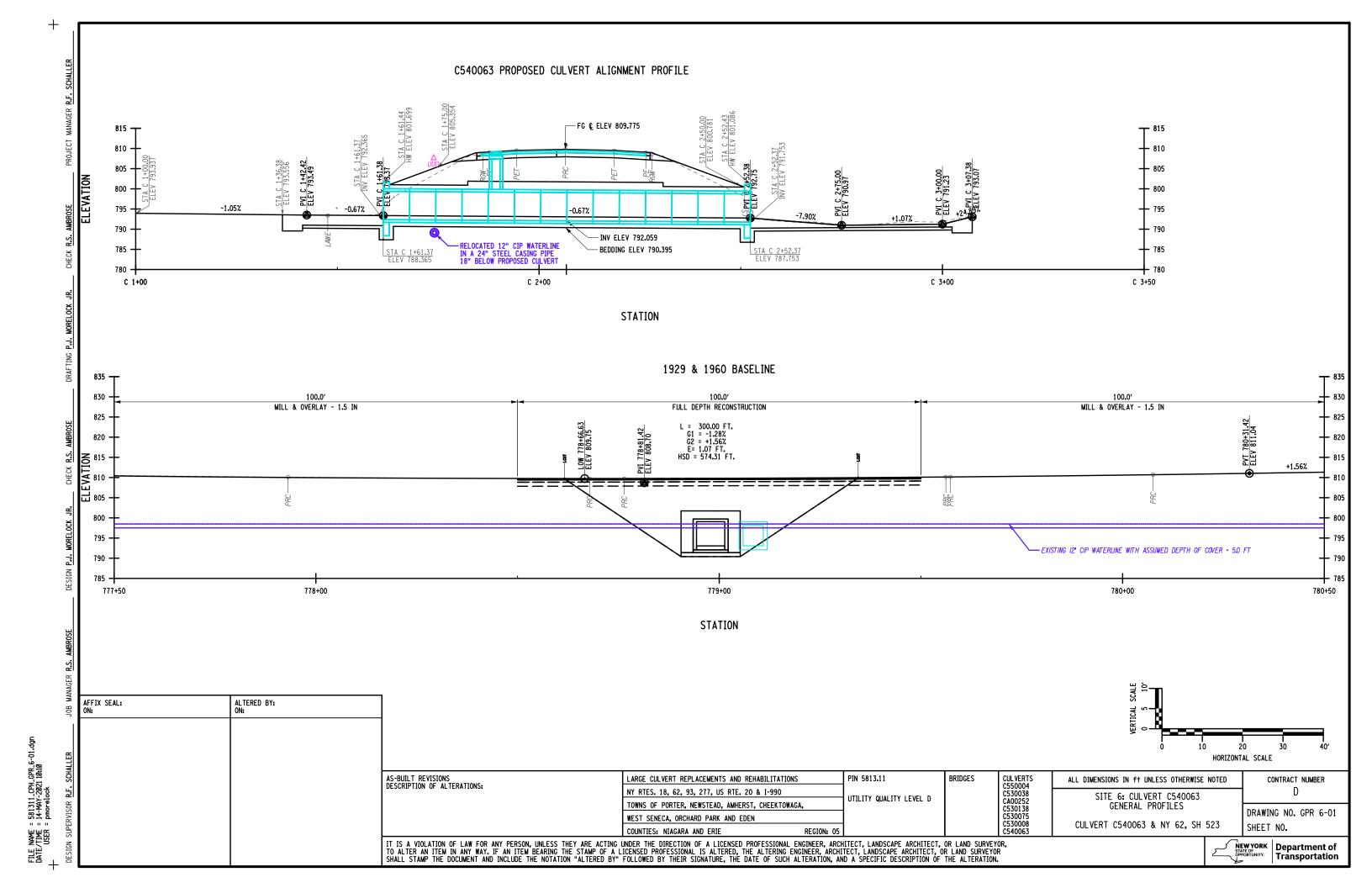
| - 301311-CTH-E33-0-02.0g = 14-MAY-2021 10:10 = pmorelock | |
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| DATE/TIME USER + | |

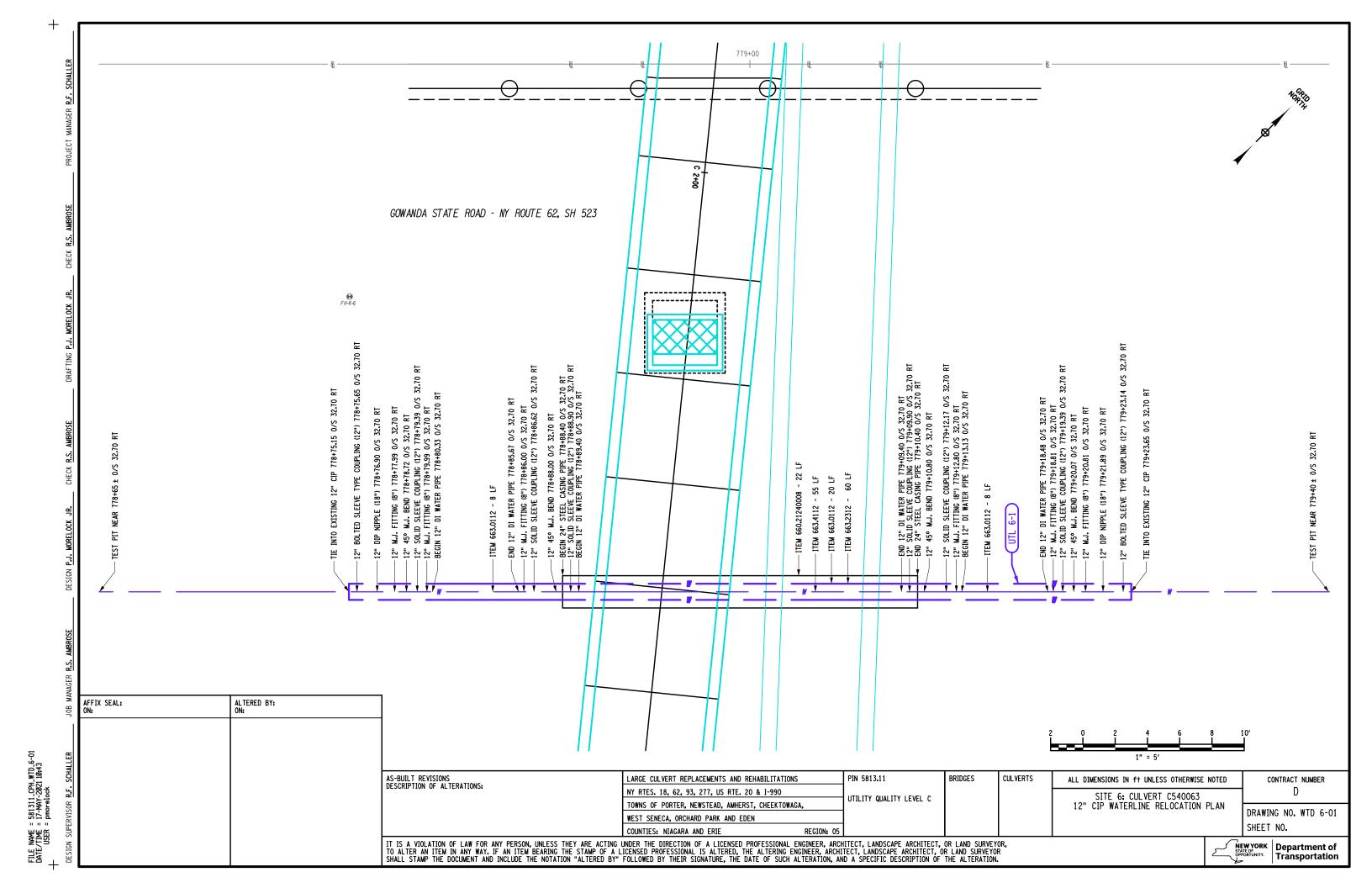
| SUBDIVISION | DN LOCATION (STATION TO STATION) | SUITABLE EXCAVATION | | | | ROCK | UNSUITABLE EXCAVATION | | | | TOTAL EXCAVATION | EMBANKMENT | | | | | |
|-------------|----------------------------------|---------------------|----------------|----|--------|----------------|-----------------------|----------------|----------------|----------------|---------------------|------------|----------------|----|----------------|--------|----------------|
| NO. | | СВ | c _G | CP | cE | Τ _E | c _R | C _A | c _s | c _X | c _o | TU | c _T | FB | F _S | F | F _T |
| | C540063 NY RTE 62 | | | | 90.2 | | | | 65.7 | | | | 155.9 | | | | |
| | C540063 CULVERT | | | | 2150.9 | | | | | 803.4 | | | 2954.4 | | | 1423.4 | 142 |
| | C540063 LT WINGWALL | | | | 373.7 | | | | | | | | 373.7 | | | 373.7 | 37 |
| | C540063 RT WINGWALL | | | | 345.2 | | | | | | | | 345.2 | | | 345.2 | 34 |
| | | | | | | | | | | | | | | | | | |
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| | TOTALS | | | | 2960 | | | | 65.7 | 803.4 | | | 3829 | | | 2142 | 2 |

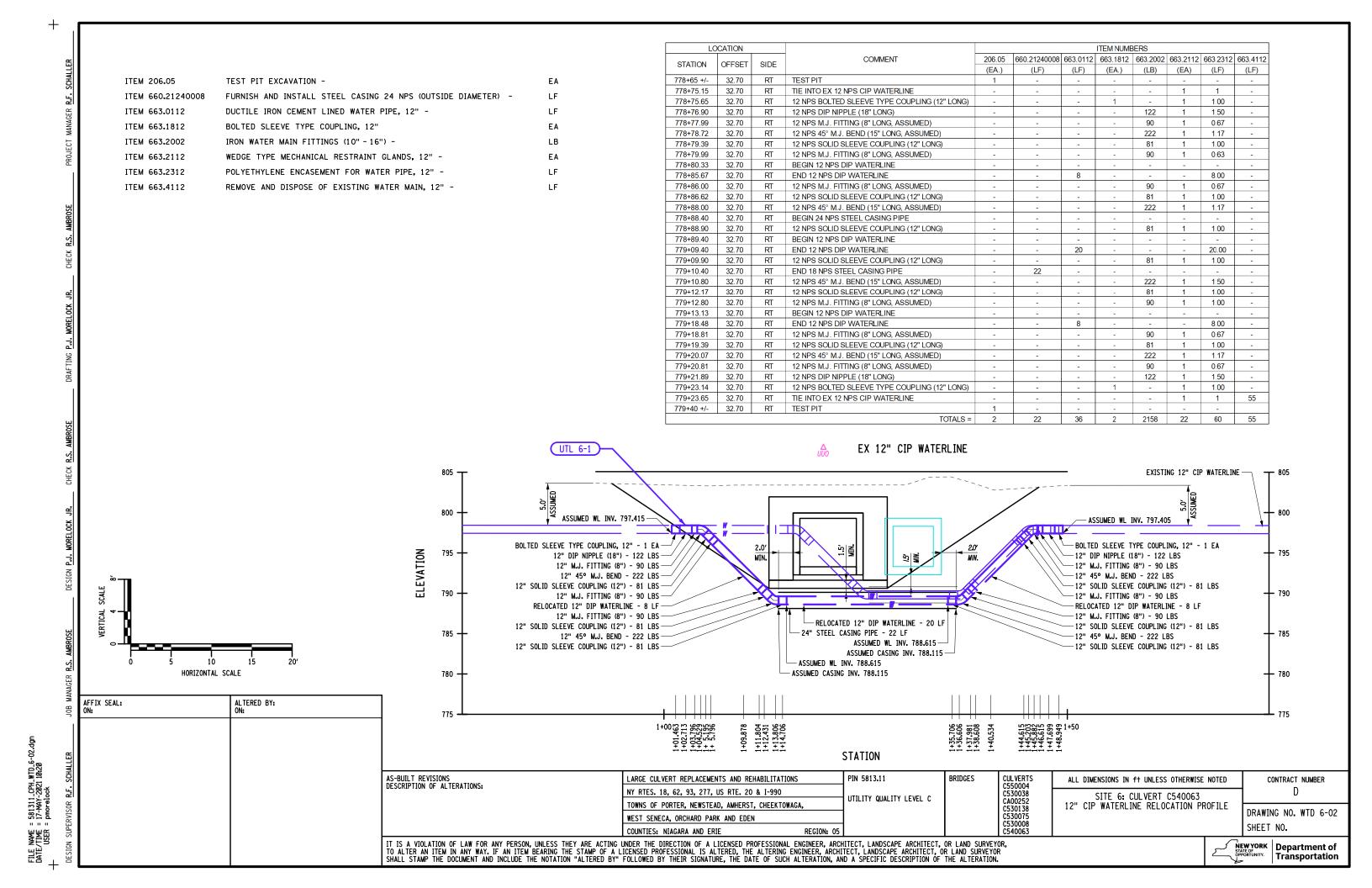
FOR DEFINITIONS AND NOTES SEE DWG. ES-1

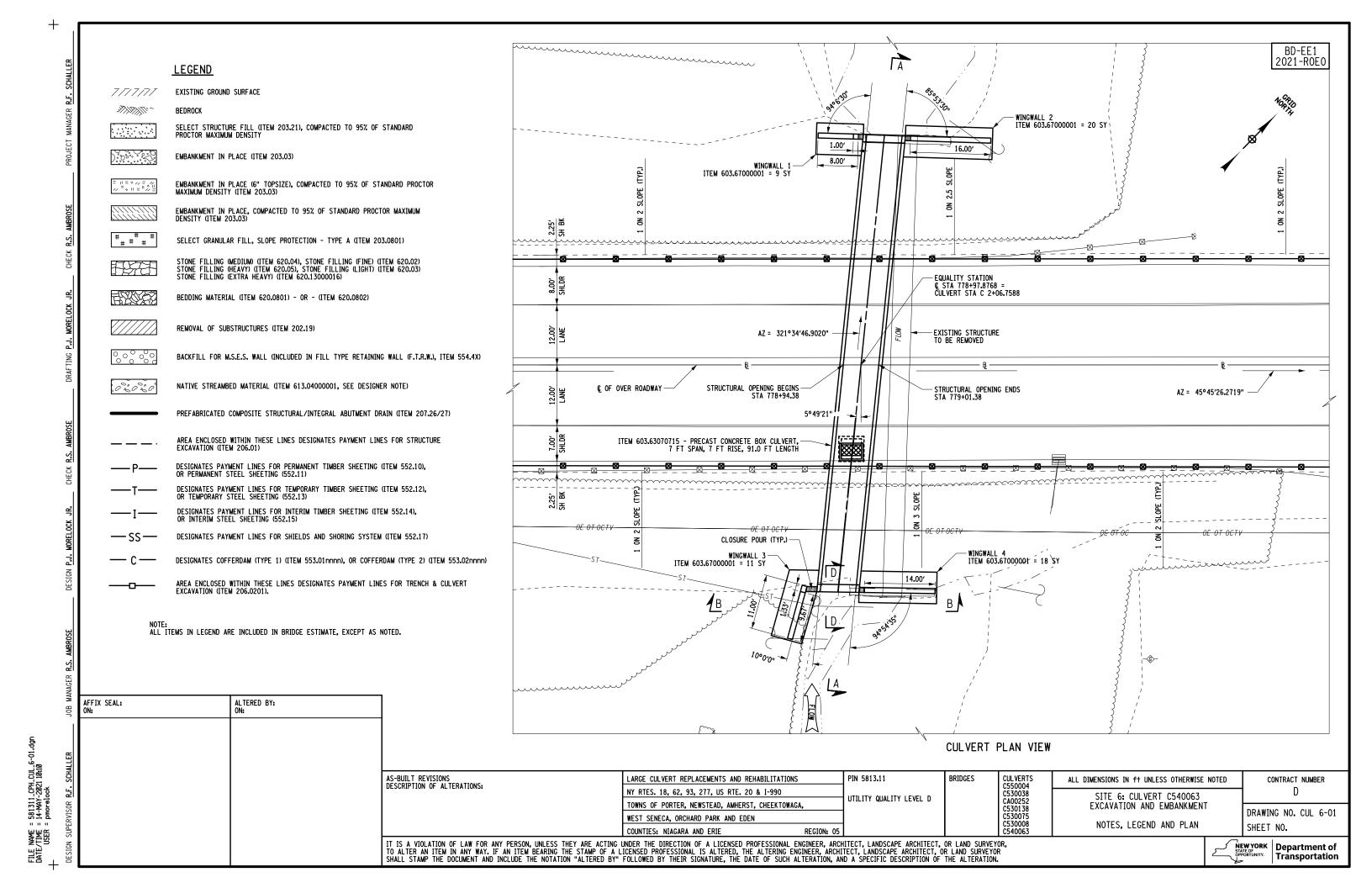
| | AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | | PIN 5813.11 | BRIDGES | CULVERTS C550004 C530038 | ALL DIMENSIONS IN yd3 UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|---|--|--|---|-------------------------|--------------------|--------------------------------|--|--|
| | DESCRIPTION OF METERATIONS | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | | UTILITY QUALITY LEVEL D | | | EARTHWORK SUMMARY SHEET | 7 D |
| ı | <u> </u> | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | <u>, </u> | | | CA00252 C530138 | C540063 | DRAWING NO. ESS 6-02 |
| I | ! | WEST SENECA, ORCHARD PARK AND EDEN | | | C530075 C530008 | | | |
| | | COUNTIES: NIAGARA AND ERIE | REGION: 05 | | | C540063 | | SHEET NO. |
| | | | | | | | کے | NEW YORK STATE OF OPPORTUNITY. Department of Transportation |











= 581311_CPH_CUL_6-02. = 14-MAY-2021 10:10 = pmorelock FILE NAME = DATE/TIME = USER =

| | | GEOTECH DE | NICAL W | INGWALL Ta | | |
|---|--|---|---|--|--|--|
| FRICTION ANGLE OF SOIL RETAINED BY THE WALL (DEGREES) | FRICTION ANGLE OF FOUNDATION SOIL (DEGREES) | TOTAL SOIL UNIT WEIGHT (ID/ft³) | MAXIMUM SERVICE LIMIT STATE BEARING RESISTANCE (ID/ft²) | NOMINAL COEFFICIENT OF FRICTION FOR SLIDING | STRENGTH LIMIT STATE RESISTANCE FACTOR FOR SLIDING | STRENGTH LIMIT STATE RESISTANCE FACTOR FOR BEARING |
| 34 | 32 | 120 | 2.0 | 0.50 | 0.9 | 0.45 |

- 1. FOR THE SLIDING AND ECCENTRICITY ANALYSES, ASSUME A GROUND WATER ELEVATION OF 795 FEET.
- 2. FOR THE BEARING ANALYSES, ASSUME A GROUNDWATER ELEVATION OF 792 FEET.
- 3. USE SUBMERGED UNIT WEIGHTS BELOW THE GROUNDWATER ELEVATIONS PROVIDED.
- 4. ASSUME A SURCHARGE LOAD OF 250 POUNDS PER SQUARE FOOT.

| | WI | NGWALL DA | TA | |
|------------|-------------|-------------|-------------|---------------|
| LOCATION | ELEVATION A | ELEVATION B | ELEVATION C | DIMENSION "X" |
| WINGWALL 1 | 801.086 | 797.586 | 787.753 | 1.0 |
| WINGWALL 2 | 801.086 | 801.086 | 787.753 | 16.0 |
| WINGWALL 3 | 801.699 | 796.895 | 788.365 | 1.33 |
| WINGWALL 4 | 801.699 | 801.699 | 788.365 | 14.0 |

DIMENSION "X" MEASURED ALONG FRONT FACE OF WINGWALL.

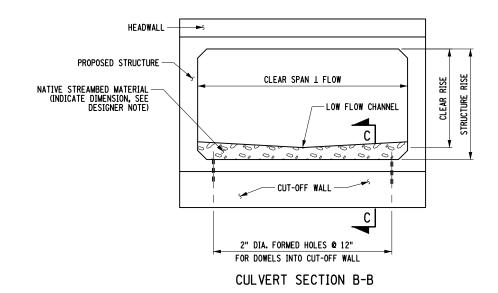
| BOX CULVERT DE | SIGN DATA |
|---------------------------------------|--------------------------------|
| CLEAR SPAN, ft. | 7.0 |
| STRUCTURE RISE, ft. | 7.0 |
| * MIN. FILL HEIGHT, ft. | 1.0 |
| * MAX. FILL HEIGHT, ft. | 10.0 |
| SKEW ANGLE 1 TO © OF ROADWAY, DEG. | 5.82 % |
| LIVE LOAD | HL93 AND NYS PERMIT VEHICLE |
| RAILING / BARRIER TEST LEVEL | TL-2 |

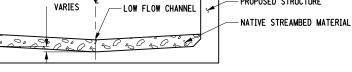
*BASED ON ASSUMED TOP SLAB THICKNESS OF 0.667 FT . FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS, (DESIGNER TO THE TOP SLAB TO THE TOP OF THE PAVEMENT.

NOTES:

- 1. THE LENGTH OF EACH CULVERT SEGMENT SHALL BE DETERMINED BY THE CONTRACTOR, IF STAGED CONSTRUCTION IS EMPLOYED, THE PRECAST BOX CULVERT SEGMENT LENGTH MUST BE COMPATIBLE
- 2. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".

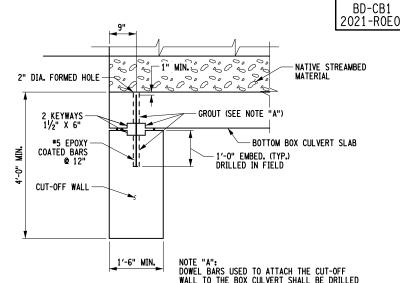
| MANA | | | |
|--------------------------|--------------------|--------------------|-----|
| JOB MA | AFFIX SEAL: ON: | ALTERED BY: ON: | |
| SUPERVISOR R.F. SCHALLER | | | A D |
| ESIGN | | | I |





TYPICAL LOW FLOW DISH OPTION

ARGE CULVERT REPLACEMENTS AND REHABILITATIONS



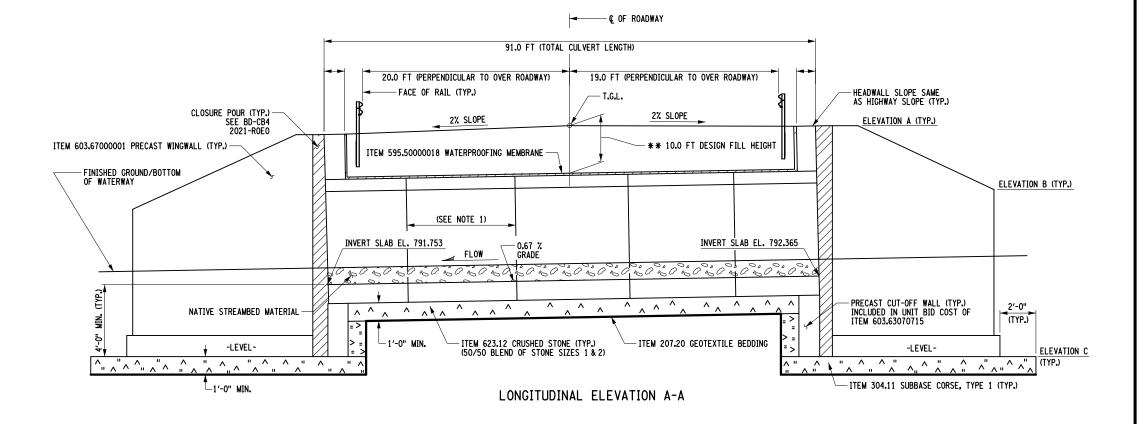
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

SECTION C-C

NOTE "A":
DOWEL BARS USED TO ATTACH THE CUT-OFF
WALL TO THE BOX CULVERT SHALL BE DRILLED
AND GROUTED PER THE REQUIREMENTS OF STANDARD
SPECIFICATION SECTION 586 EXCEPT THE GROUT SHALL
MEET THE REQUIREMENTS OF \$701-06 (PULLOUT TEST
NOT REQUIRED). THE KEYWAY SHALL BE GROUTED WITH
THE SAME MATERIAL AS THE DOWEL HOLES. WHEN THE
GRADE OF THE BOX EXCEDS 5%, THE TOP OF THE
CUT-OFF WALL SHOULD BE BEVELED TO MATCH THE
GRADE. PLACE A BEAD OF CAULK, CLOSED CELL FOAM
OR OTHER SUITABLE MATERIAL ON BOTH SIDES OF THE
KEYWAY TO CONTAIN THE GROUT.

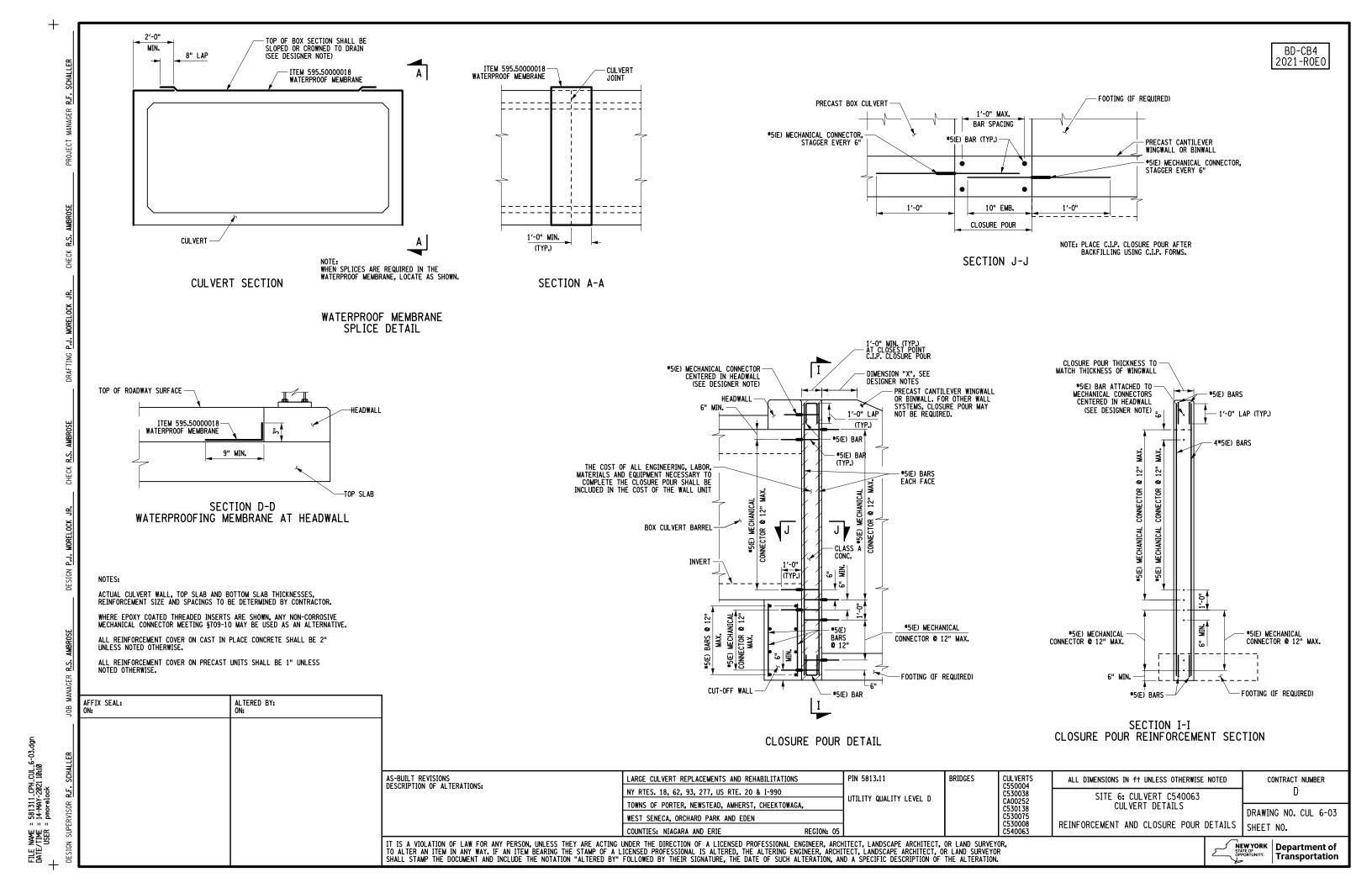
REINFORCEMENT IN BOX CULVERT AND CUT OFF WALL NOT SHOWN FOR CLARITY.

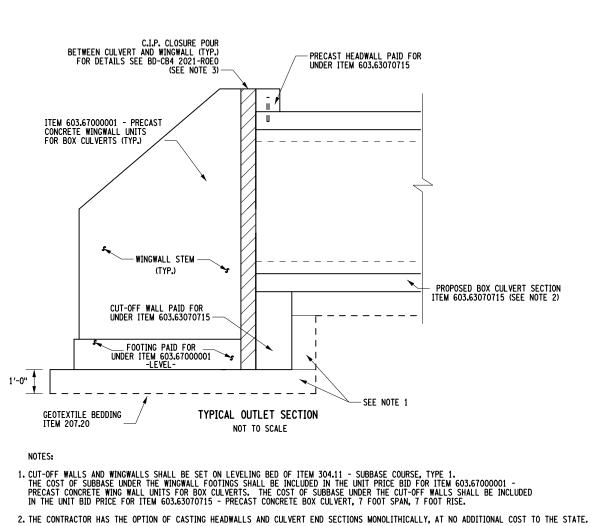


PROPOSED STRUCTURE

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: CUL VERTS C550004 D NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 C530038 SITE 6: CULVERT C540063 UTILITY QUALITY LEVEL D CA00252 C530138 C530075 C530008 TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, CULVERT DETAILS DRAWING NO. CUL 6-02 WEST SENECA, ORCHARD PARK AND EDEN CULVERT ELEVATION SHEET NO. COUNTIES: NIAGARA AND ERIE REGION: 05 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NEW YORK
STATE OF
OPPORTUNITY.
Department of
Transportation Transportation

PIN 5813.11

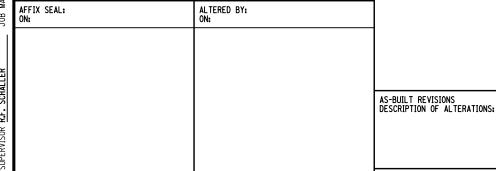




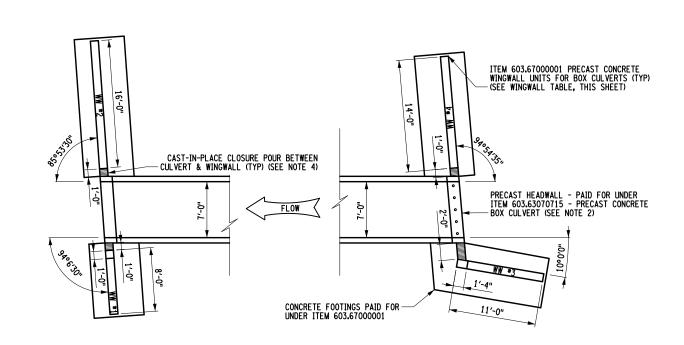
- 3. THE CONNECTION BETWEEN THE BOX CULVERT AND EACH WINGWALL SHALL BE FORMED AND POURED IN PLACE, USING CLASS A CONCRETE, THE COST OF THE CLASS A CONCRETE, MECHANICAL CONNECTORS ANS REINFORCING STEEL USED IN THE WINGWALL TO CULVERT CLOSURE POURS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 603.67000001 PRECAST CONCRETE WINGWALLS FOR BOX CULVERTS.
- 4. SEE DRAWING NO. CUL 6-02 FOR BOX CULVERT DESIGN DATA TABLE.

| | | | OUTLET | WINGWALL DATA | | | |
|-----------------|-------------|-------------|-------------|------------------------------|------------------|---------------|-------|
| LOCATION | ELEVATION A | ELEVATION B | ELEVATION C | WEEPHOLE INVERT ELEVATION | DIMENSION "X" | LENGTH "L" | ANGLE |
| WINGWALL 1 (SW) | 801.086 | 797.586 | 787.753 | | 1′-0" | 8′-0" | 90° |
| WINGWALL 2 (NW) | 801.086 | 801.086 | 787.753 | | 16'-0" | 16'-0" | 90° |
| | | | INLET | WINGWALL DATA | | | |
| LOCATION | ELEVATION A | ELEVATION B | ELEVATION C | WEEPHOLE INVERT ELEVATION | DIMENSION "X" | LENGTH "L" | ANGLE |
| WINGWALL 3 (SE) | 801.699 | 796.895 | 788.365 | | 1′-4" | 11'-0" | 10° |
| WINGWALL 4 (NE) | 801.699 | 801.699 | 788.365 | | 14'-0" | 14'-0" | 90° |

DIMENSION "X" MEASURED ALONG FRONT FACE OF WINGWALL.



- PRECAST HEADWALL PAID UNDER ITEM 603.63070715 - PRECAST CONCRETE BOX CULVERT, 7 FOOT SPAN, 7 FOOT RISE (SEE NOTE 2) BD-CB6 ITEM 603.63070715 - PRECAST CONCRETE BOX CULVERT, 7 FOOT SPAN, 7 FOOT RISE 2021-R0E0 C.I.P. CLOSURE POUR BETWEEN CULVERT AND WINGWALL (TYP.) FOR DETAILS SEE BD-CB4 2021-R0E0 (SEE NOTE 3) SEE WINGWALL DATA TABLE DIMENSION "X" ELEVATION A, SEE "WINGWALL ELEVATION A, SEE "WINGWALL DATA" TABLE DATA" TABLE П % П ITEM 603.67000001 -PRECAST CONCRETE WINGWALL UNITS FOR BOX CULVERTS ELEVATION B, SEE "WINGWALL DATA" TABLE WINGWALL STEM-WINGWALL STEM (TYP.) (TYP.) 7.0 -CUT-OFF WALL, FOR DETAILS SEE "SECTION C-C" ON BD-CB1E AND "CLOSURE POUR DETAIL" ON BD-CB4 2021-ROEO - FOOTING FOOTING -ELEVATION C, SEE "WINGWALL -LEVEL--LEVEL-DATA" TABLE TYPICAL OUTLET FRONT ELEVATION GEOTEXTILE BEDDING ITEM 207.20 NOT TO SCALE

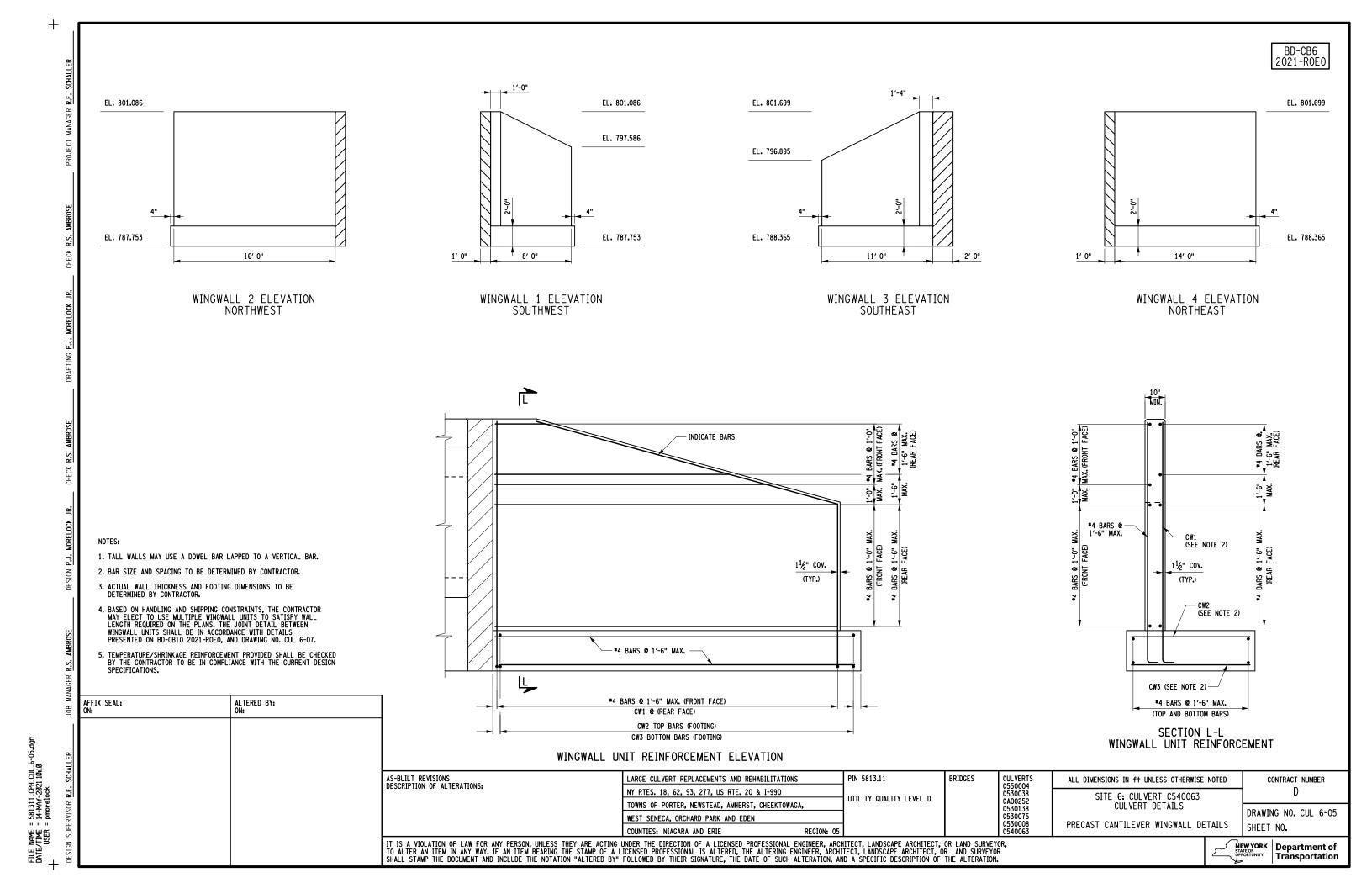


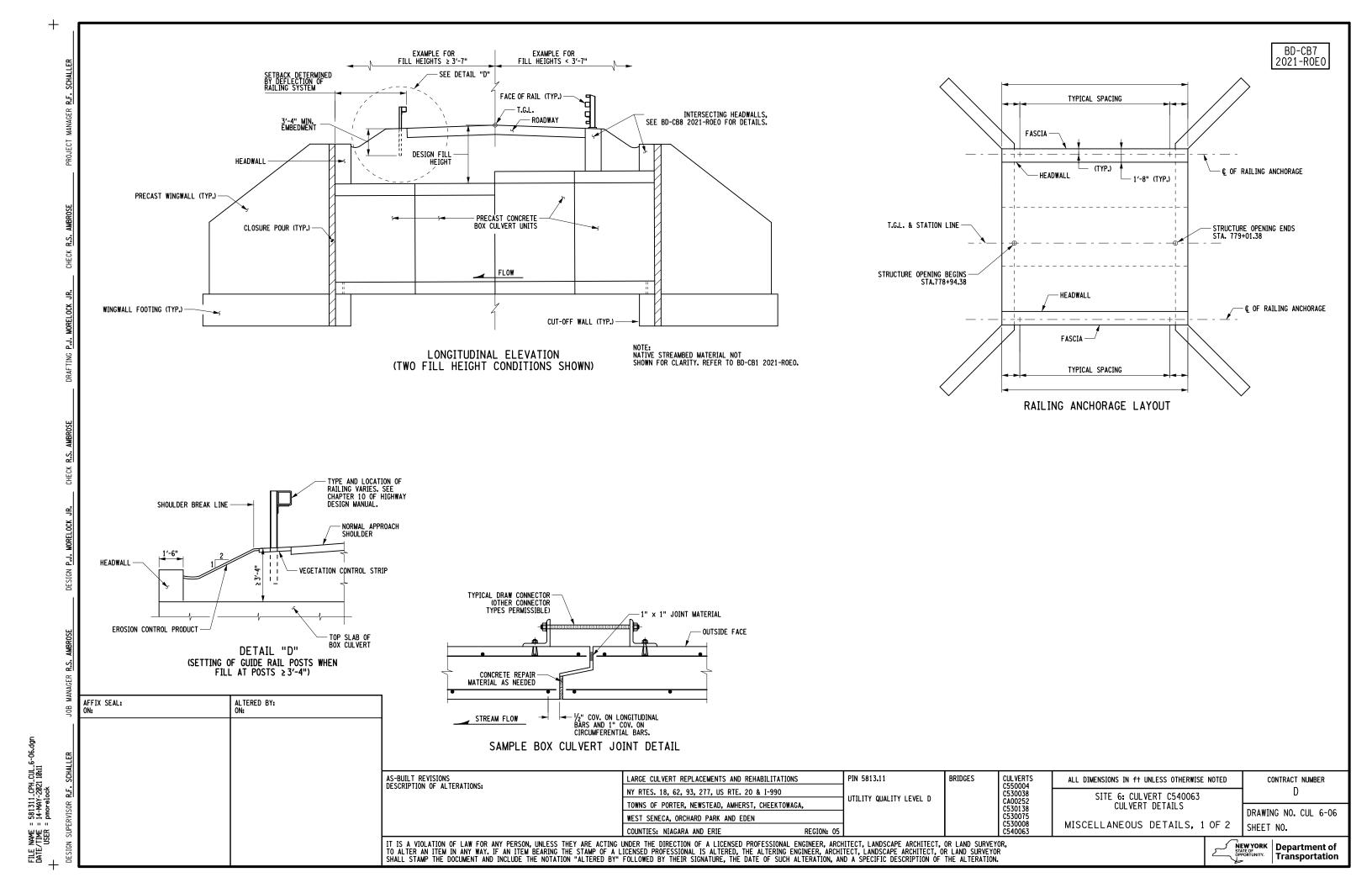
CUL VERTS C550004 ARGE CULVERT REPLACEMENTS AND REHABILITATIONS PIN 5813.11 ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER C530004 C530038 CA00252 C530138 C530075 C530008 NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 SITE 6: CULVERT C540063 UTILITY QUALITY LEVEL D CULVERT DETAILS TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, DRAWING NO. CUL 6-04 WEST SENECA, ORCHARD PARK AND EDEN PRECAST CANTILEVER WINGWALL DETAILS SHEET NO. COUNTIES: NIAGARA AND ERIE

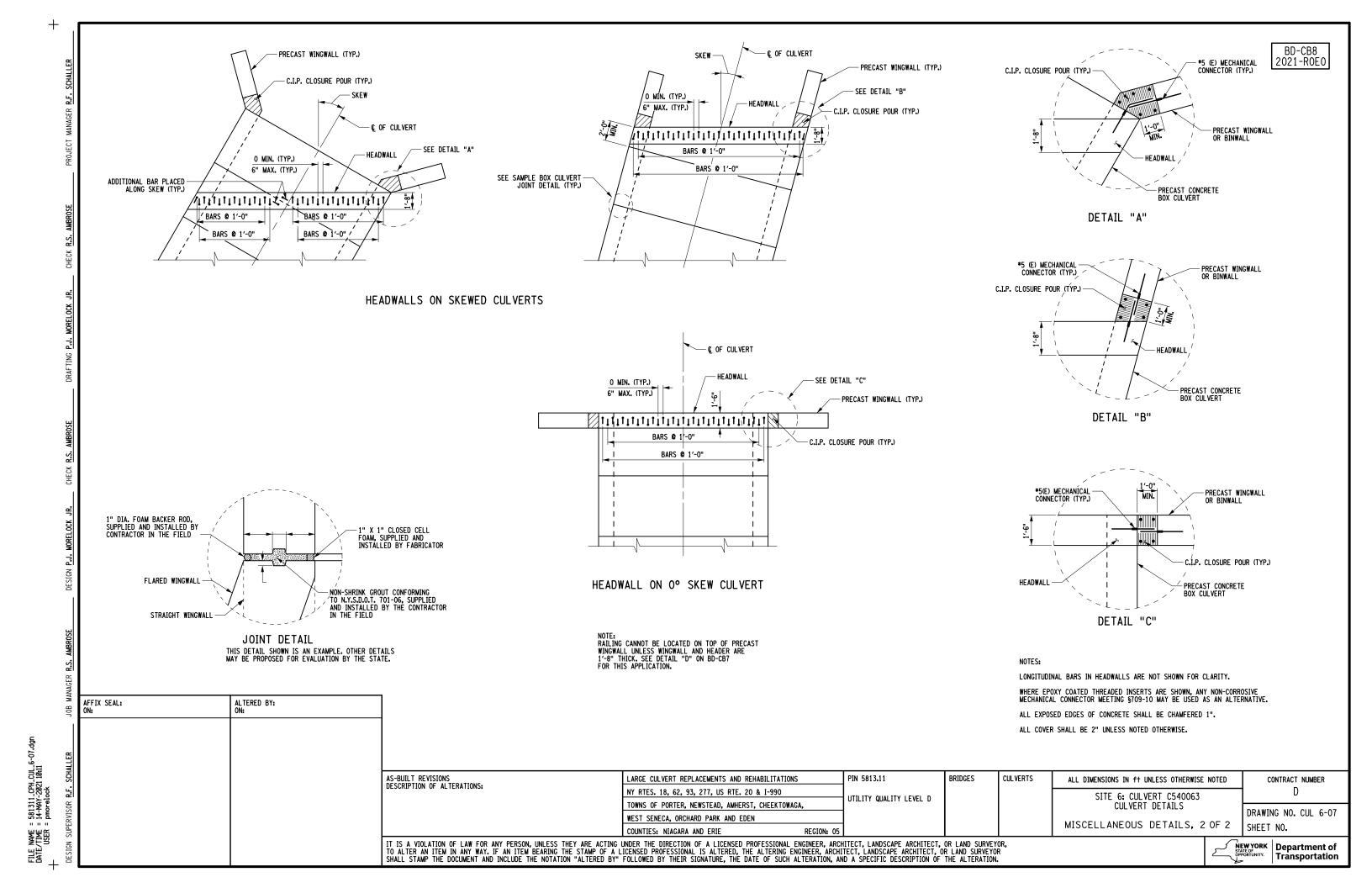
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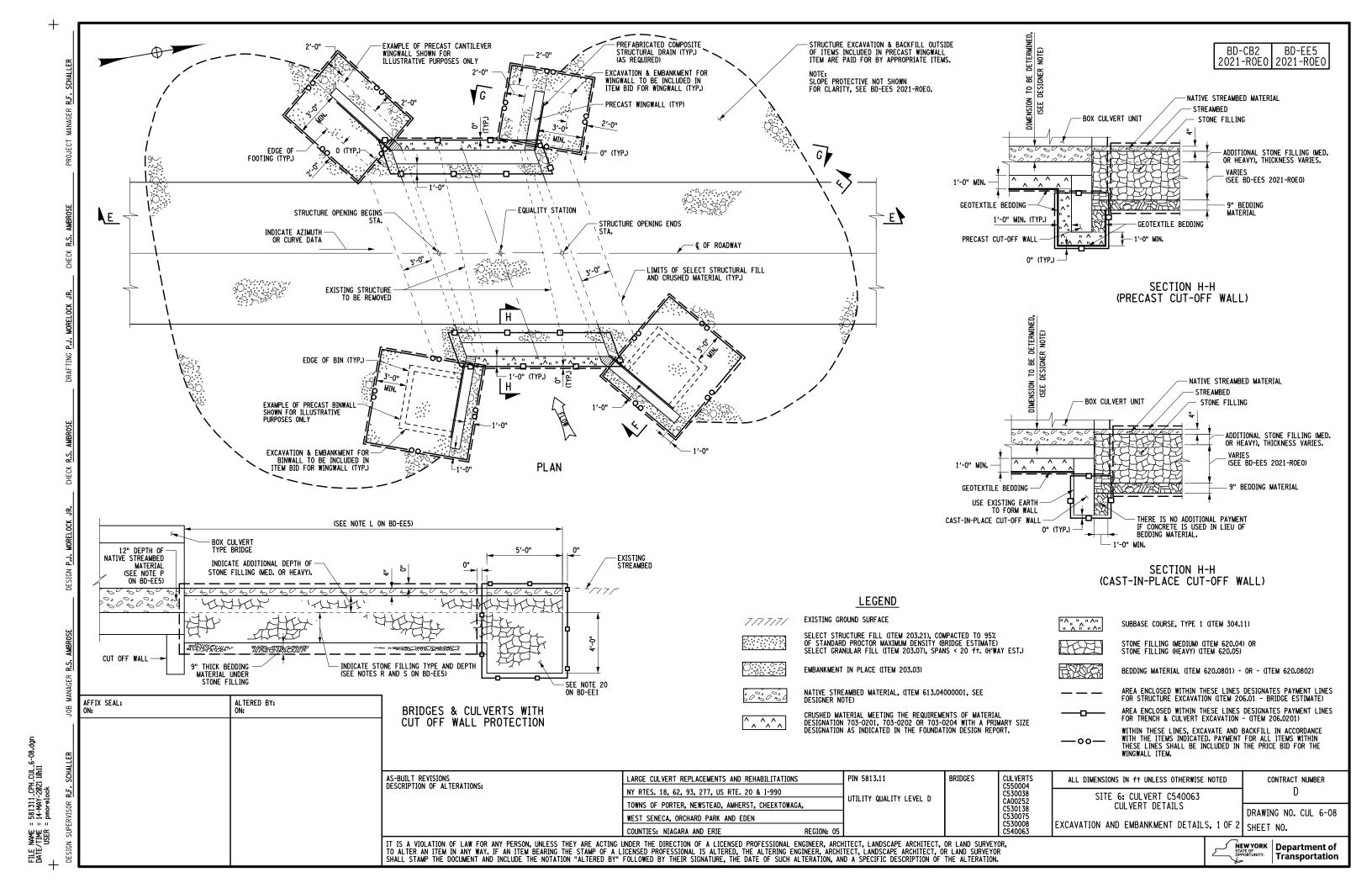
NEW YORK
STATE OF
OPPORTUNITY.
Department of
Transportation

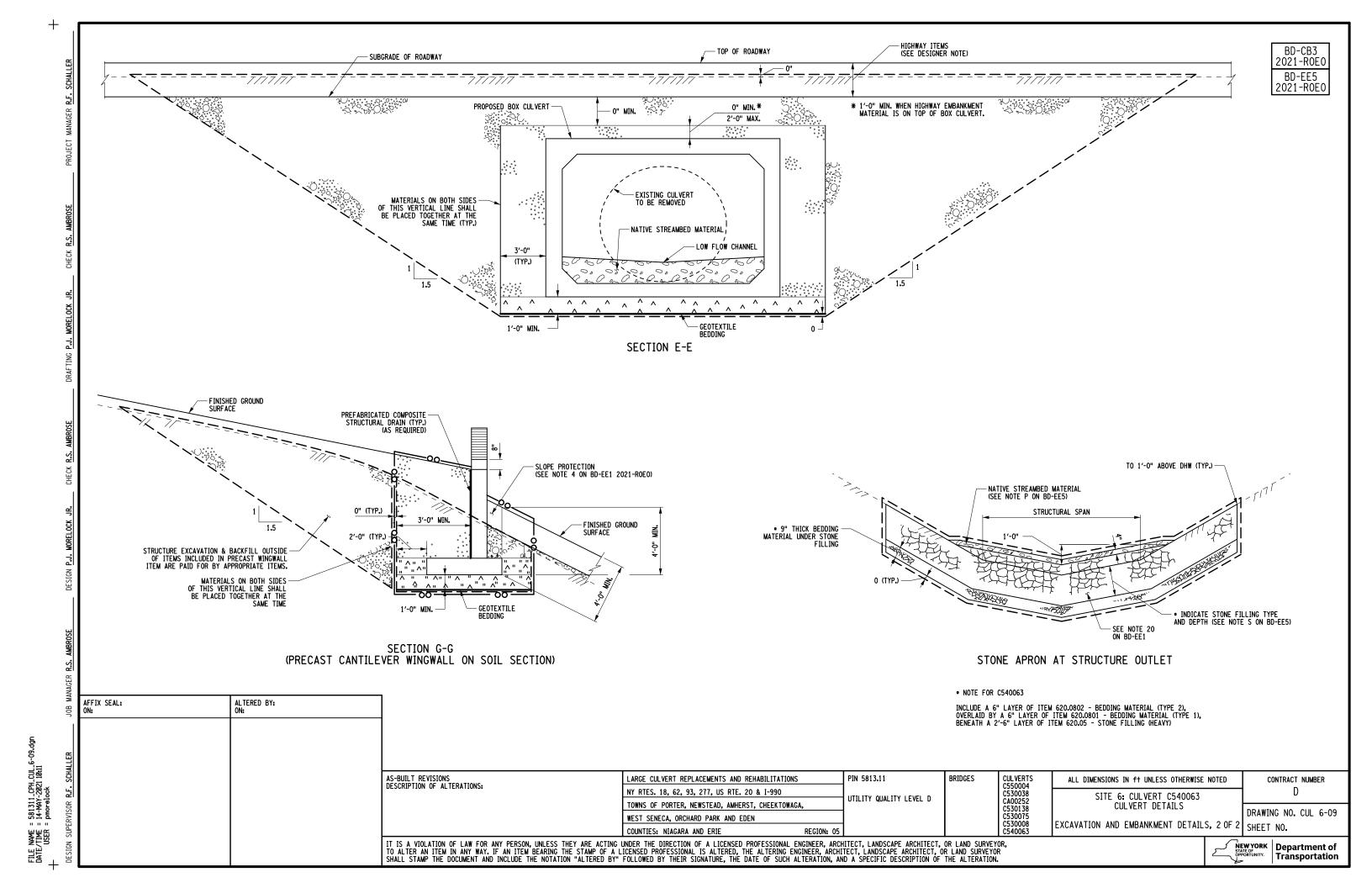
= 581311_CPH_CUL_6-04.dgr = 14-MAY-2021 10:10 = pmorelock

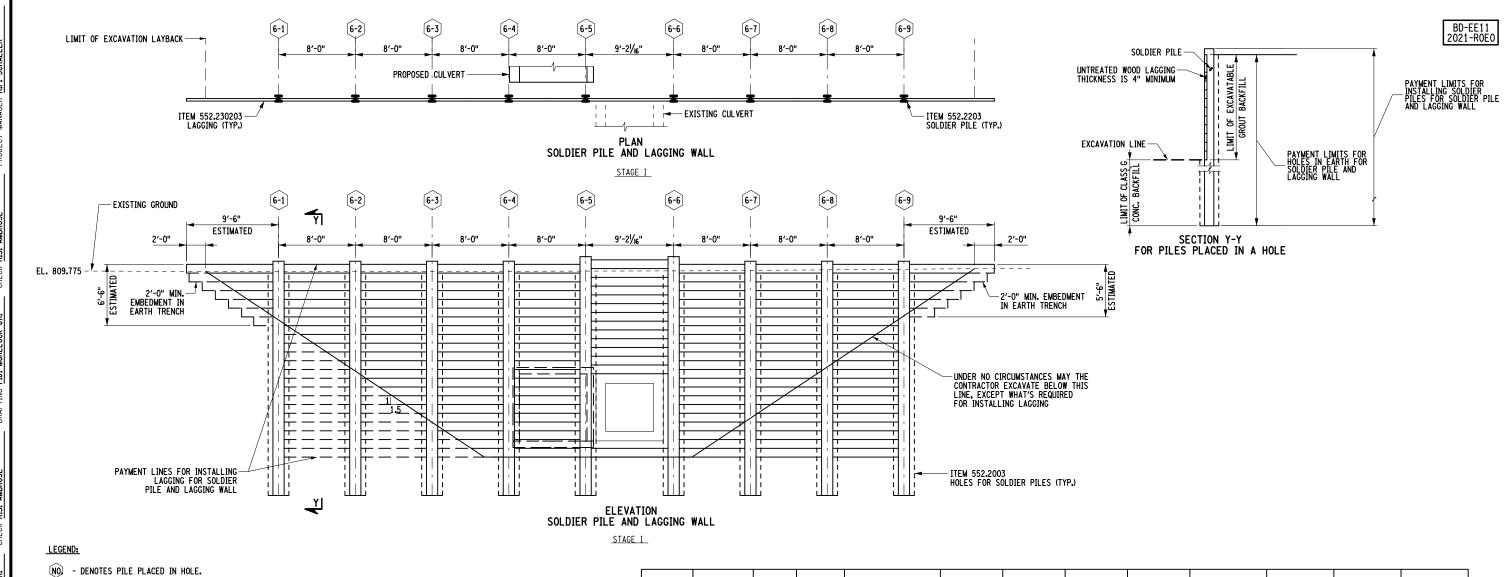












THE FOLLOWING INFORMATION WAS USED IN THE DESIGN OF THE SOLDIER PILE AND LAGGING WALL.

| LOCATION | ELEVATION (FEET) | UNIT WEIGHT (LBS/FT²) | FRICTION ANGLE (DEGREES) | COHESION (LBS/FT ²) | WALL FRICTION (DEGREES) |
|---------------|---------------------|-----------------------------|--------------------------------|------------------------------------|-------------------------------|
| BEGIN AND END | OGS TO 798.7 | 115 | 29 | 0 | 0 |
| ABUTMENTS | 798.7 AND BELOW | 120 | 32 | 0 | 0 |

- A. DIVIDE THE PASSIVE EARTH PRESSURE COEFFICIENT (Kp) BY 1.25.
- B. GROUNDWATER IS ASSUMED AT ELEVATION 795 FEET.

AFFIX SEAL: ON:

FILE NAME = 581311_CPH_CUL_6-10.dgn DATE/TIME = 14-MAY-2021 10:11 USER = pmorelock C. A SURCHARGE LOAD OF 250 POUNDS PER SQUARE FOOT IS ASSUMED AT THE TOP OF THE WALL.

> ALTERED BY: ON:

| PILE NUMBER | STATION | OFFSET (IN FEET) | PILE TOP ELEVATIONS (IN FEET) | DEPTH OF EXCAVATION (IN FEET) | ESTIMATED PILE TIP ELEV. (IN FEET) | REQUIRED PILE LENGTH (IN FEET) | ASSUMED ROCK ELEVATION (IN FEET) | MINIMUM ROCK SOCKET (IN FEET) | MINIMUM PILE SECTION MODULUS (IN FEET) | RECOMMENDED SOLDIER PILE SECTION | MINIMUM DIA. OF HOLE (IN INCHES) | AS-BUILT PILE LENGTH (IN FEET) |
|----------------|-----------|---------------------|-------------------------------------|----------------------------------|--|--------------------------------------|--|-------------------------------------|--|--|--|--------------------------------------|
| 6-1 | 778+69.10 | 1.515 RT. | 809.8 | 6.0 | 784.8 | 25.0 | N/A | N/A | 82.6 | HP 12x74 | 30 | |
| 6-2 | 778+77.10 | 1.515 RT. | 809.8 | 11.0 | 766.8 | 43.0 | N/A | N/A | 305.9 | W 14×193 | 30 | |
| 6-3 | 778+85.10 | 1.515 RT. | 809.8 | 17.0 | 760.8 | 49.0 | N/A | N/A | 442.5 | W 14x283 | 30 | |
| 6-4 | 778+93.10 | 1.515 RT. | 809.8 | 19.4 | 760.8 | 49.0 | N/A | N/A | 442.5 | W 14x283 | 30 | |
| 6-5 | 779+01.10 | 1.515 RT. | 809.8 | 19.4 | 760.8 | 49.0 | N/A | N/A | 442.5 | W 14x283 | 30 | |
| 6-6 | 779+10.27 | 1.515 RT. | 809.8 | 19.4 | 760.8 | 49.0 | N/A | N/A | 442.5 | W 14x283 | 30 | |
| 6-7 | 779+18.27 | 1.515 RT. | 809.8 | 17.0 | 760.8 | 49.0 | N/A | N/A | 442.5 | W 14x283 | 30 | |
| 6-8 | 779+26.27 | 1.515 RT. | 809.8 | 11.0 | 766.8 | 43.0 | N/A | N/A | 305.9 | W 14×193 | 30 | |
| 6-9 | 779+37.27 | 1.515 RT. | 809.8 | 6.0 | 784.8 | 25.0 | N/A | N/A | 82.6 | HP 12x74 | 30 | |

BASED ON A GROUND ELEVATION OF 809.8 FEET.

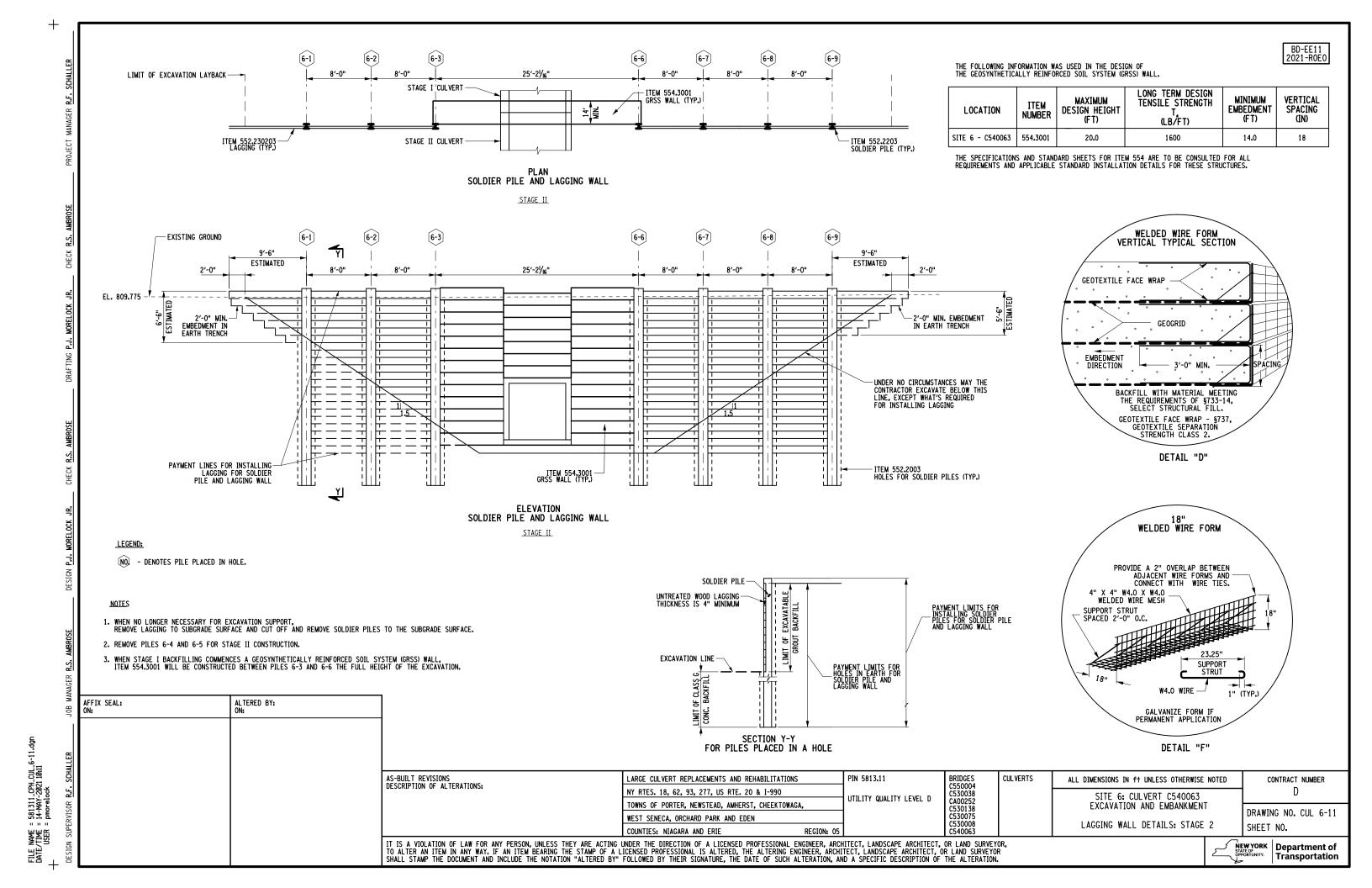
NOTES:

THE DESIGN IS BASED ON THE SOLDIER PILES BEING PLACED IN PRE-EXCAVAVTED HOLES AND BACKFILLED WITH CLASS G CONCRETE TO THE EXCAVATION LIMIT.

MINIMUM THICKNESS OF UNTREATED WOOD LAGGING: 4 INCHES.

SOLDIER PILES - ASTM A572 GRADE 50 STEEL

| 1 | | SULUIER PILES - ASIM ASIZ GRADE SU STEEL. | | | | | |
|----------|--|---|------------------------------|--|-----------------|---|------------------------------|
| | | PILES 6-5 AND 6-6 SHALL BE LOCATED SO THAT THE EXISTING | CULVERT IS NOT IMPACTED DUF | RING THE DRILLIN | G OF THE 30 INC | H DIAMETER HOLES IN THE EARTH. | |
| ALLER | | | | | | | |
| 짌 | AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES C550004 C530038 CA00252 C530138 C530075 C530008 C540063 | CULVERTS | ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
| <u>.</u> | DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | C530004 C530038 | | SITE 6: CULVERT C540063 | 1 D |
| SOR | | TOWNS OF PORTER, NEWSTEAD, AMHERST, CHEEKTOWAGA, | - OTICITY QUALITY ELVEL D | CA00252 C530138 | | EXCAVATION AND EMBANKMENT | DRAWING NO. CUL 6-10 |
| ERVI | | WEST SENECA, ORCHARD PARK AND EDEN | _ | C530075 C530008 | | LAGGING WALL DETAILS: STAGE 1 | |
| SUPF | | COUNTIES: NIAGARA AND ERIE REGION: 05 | 5 | C540063 | | LAGGING WALL DETAILS: STAGE I | SHEET NO. |
| DESIGN | IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY | LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCH | HITECT, LANDSCAPE ARCHITECT, | OR LAND SURVEY | OR . | | Department of Transportation |



Ä.

WORK ZONE TRAFFIC CONTROL NOTES

GENERAL NOTES

1) WZTC SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619-1 OF THE NYSDOT STANDARD SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE NYS SUPPLEMENT TO THE MUTCD, AND ANY PROVISIONS CONTAINED IN THE PLANS AND/OR PROPOSAL OF THIS CONTRACT.

2) THE EDGE OF PAVEMENT OR THE BACK EDGE OF SHOULDER SHOULD BE DELINEATED WITH DEVICES.

3) THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL AND BUSINESS DRIVEWAYS AT ALL TIMES DURING THE DURATION OF THE CONTRACT.

4) THE CONTRACTOR SHALL NOT MIX DELINEATION DEVICES IN A LINEAR CLOSURE OR TAPER. HOWEVER, DIFFERENT DELINEATION DEVICES MAY BE USED IN DIFFERENT AREAS OF THE PRO-LECTER.

5) VEHICLES BELONGING TO THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC WITHIN THE PROJECT LINUTES

6) THE CONTRACTOR SHALL NOT PARK EQUIPMENT OVERNIGHT WHERE IT IS DEEMED A SAFETY HAZARD TO TRAFFIC.

7) ALL TRAVEL AND PARKING LANES SHALL BE CLEARED OF ALL OBSTRUCTIONS, INCLUDING TRAFFIC CONTROL DEVICES, AND MADE SAFE FOR TRAVEL AND RETURNED TO SERVICE AT THE CONCLUSION OF EACH WORKDAY.

8) WHEN TYPE III BARRICADES ARE USED NEAR DRIVEWAYS OR INTERSECTIONS THEY SHALL BE PLACED IN SUCH A WAY AS TO NOT OBSCURE SIGHT DISTANCE.

9) SIGNS NOT APPLICABLE AFTER WORKING HOURS SHALL BE COVERED OR REMOVED FROM THE ROADWAY.

10) SIGN LOCATIONS ARE APPROXIMATE; EXACT LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER.

11) SIGN HEIGHT SHALL BE 7 FT. IN AREAS WHERE PEDESTRIANS AND PARKED CARS ARE ENCOUNTERED.

12) THE FLAGGER STATION AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM VISIBILITY.

13) "FLAGGER" SIGNS SHALL BE USED WHENEVER FLAGGING OCCURS FOR MORE THAN A BRIEF PERIOD OF TIME. THE SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES.

14) ALL FLAG TREES SHALL HAVE A MINIMUM OF THREE (3) FLAGS.

15) TYPE III CONSTRUCTION BARRICADES SHALL BE PAID FOR UNDER ITEM 619.01. IN ACCORDANCE WITH STANDARD SHEET 619-51, SIX (6) BARRICADES ARE REQUIRED FOR SIDEWALK CLOSURE OF ONE INTERSECTION QUADRANT, NO SEPARATE PAYMENT SHALL BE MADE FOR RELOCATION OF THE BARRICADES TO OTHER QUADRANTS OF THE INTERSECTION. THEREFORE, A PAY QUANTITY OF SIX (6) BARRICADES PER FOUR-LEG INTERSECTION WAS ASSUMED AND A QUANTITY OF FOUR (4) BARRICADES PER THREE-LEG INTERSECTION WAS ALSO ASSUMED.

BICYCLE ACCOMMODATION THROUGH WORK ZONES

THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH THE ABILITY OF BICYCLISTS TO MOVE THROUGH THE WORK ZONE.
THIS ROUTE DOES NOT HAVE DEDICATED BICYCLE FACILITIES OR IS PART OF THE REGIONAL "ON STREET BICYCLE NETWORK". IF THE TRAFFIC CONTROL PLANS ARE TO INCLUDE A SHOULDER CLOSURE, BICYCLISTS WILL NEED TO SHARE THE LANE WITH MOTORISTS. TRAFFIC CONTROL IMPLEMENTED ALONG THE PROJECT LIMITS SHALL INCLUDE THE APPROPRIATE SIGNAGE TO WARN BOTH BICYCLISTS AND MOTORISTS OF THE CHANGE TO A TEMPORARY SHARED LANE FACILITY.

PEDESTRIAN ACCOMMODATION THROUGH WORK ZONES

THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH PEDESTRIAN ACCESS THROUGH THE WORK ZONE, PEDESTRIANS SHALL BE DIRECTED, WITH ADVANCED SIGNAGE, TO CROSS AT AN ACCEPTABLE LOCATION PRIOR TO ENTERING A SHOULDER OR LANE CLOSURE WORK ZONE. WHERE POSSIBLE, THESE SIGNS SHALL BE PLACED AT INTERSECTIONS PRIOR TO THE WORK ZONE RATHER THAN AT THE WORK ZONE TO MINIMIZE PEDESTRIAN MIDBLOCK CROSSINGS, THE PEDESTRIAN ROUTE THROUGH THE WORK ZONE SHALL MAINTAIN ACCESSIBILITY, AS DEFINED IN SECTION 619-3.02C OF THE NYSDOT STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES (ADDAG), THE CONTRACTOR SHALL NOT DIVERT PEDESTRIAN TRAFFIC ONTO GRASSED AREAS OR OTHER SURFACES THAT ARE NOT ACCESSIBLE TO ADA STANDARDS.

AFFIX SEAL: ON: ALTERED BY: ON:

MAINTENANCE JURISDICTION NOTE

1) AFTER ACCEPTANCE OF THIS CONTRACT, THE STATE WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF THE HIGHWAY. ALL PUBLIC INTERSECTING ROADS, HIGHWAYS, OR STREETS NOT ON THE STATE HIGHWAY SYSTEM SHALL BE MAINTAINED BY THE AGENCY OR LOCAL UNIT OF GOVERNMENT HAVING JURISDICTION BEYOND THE OUTSIDE EDGE OF SHOULDER, CURB LINE, OR BACK OF DITCH OF THE STATE HIGHWAY ACROSS THE INTERSECTION.

2) ALL EXISTING SANITARY SEWERS AND OTHER SEWERS NOT DEEMED TO BE A PART OF THE PROJECT BY THE COMMISSIONER, WATER MAINS, HYDRANTS, AND OTHER MUNICIPALLY OR PRIVATELY OWNED FACILITIES WITHIN THE LIMITS OF THE HIGHWAY ROW WHICH REMAIN IN SERVICE UNCHANGED, AND ALL SUCH FACILITIES RELOCATED OR PROTECTED AS PART OF THE WORK PERFORMED UNDER THIS CONTRACT, WHETHER CROSSING, LOCATED WITHIN, OR ADJACENT TO THE ROW, SHALL BE MAINTAINED, AS THE CASE MAY BE, BY THE MUNICIPALITY OR BY THE AGENCY OR UNIT HAVING CONTROL AND JURISDICTION THEREOF AT NO COST OR EXPENSE TO THE STATE.

RIGHT-OF-WAY

1.) ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.

2.) IF CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN

2.) IF CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE ENGINEER IN CHARGE FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 678).

3.) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTION 105-15).

4.) THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

ITEM 619.111212 - PORTABLE, VARIABLE MESSAGE SIGN (PVMS) STANDARD SIZE - LINE OR CHARACTER MATRIX (LED), NO OPTIONAL EQUIPMENT SPECIFIED,

- CULVERT REPLACEMENTS, AND INSTALLATION OF CLOSED DRAINAGE SHALL HAVE A PVMS PLACED 1 WEEK IN ADVANCE INFORMING TRAFFIC OF UPCOMING WORK.
- PRIOR TO PLACEMENT OR RELOCATION OF ANY PVMS ON STATE ROW THE CONTRACTOR SHALL NOTIFY THE ENGINEER-IN-CHARGE OF THE EXACT LOCATION OF THE SIGN AND THE TRAFFIC CONTROL SCHEME TO BE IMPLEMENTED A MINIMUM OF 48 HRS IN ADVANCE.
- THE CONTRACTOR IS ADVISED THAT PVMS BOARDS SHALL BE USED AT EACH END OF THE PROJECT WHILE WORK IS BEING PERFORMED.
- 4. TEST THE PVMS CELLULAR COMMUNICATIONS LINK 2 WEEKS PRIOR TO ANTICIPATED USE.
 CONTACT NITTEC AT (716) 847-2070 (24-7). SEE NITTEC PORTABLE REQUEST FOR SERVICE
- MESSAGES FOR THE PVMS ARE TO BE UPLOADED BY NITTEC (716) 847-2070, (24-7) PER EIC REGUIEST.
- 6. USE PVMS TO NOTIFY THE TRAVELING PUBLIC OF ROADWORK WITH THE MESSAGE(S) IN THE TABLE BELOW.

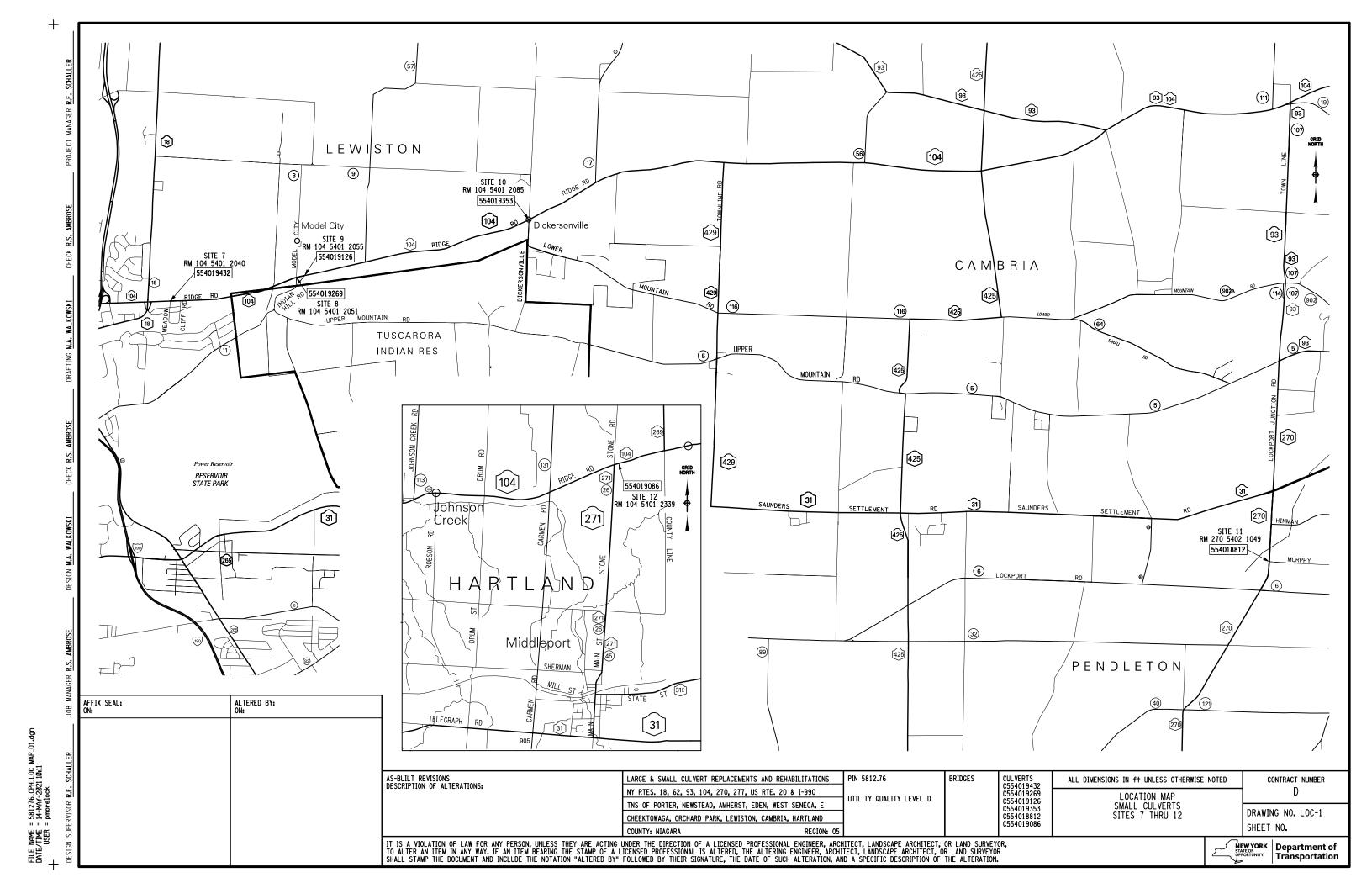
| PVMS | MESSAGES TO BE | USED |
|--------------------------------|------------------|-------------------------------------|
| MESSAGE 1 | MESSAGE 2 | MESSAGE DURATION |
| ROADWORK STARTS XX/XX/XX | EXPECT DELAYS | PRE-CONSTRUCTION: ONE WEEK PRIOR |
| ROAD WORK AHEAD | EXPECT DELAYS | DURING LANE CLOSURES |

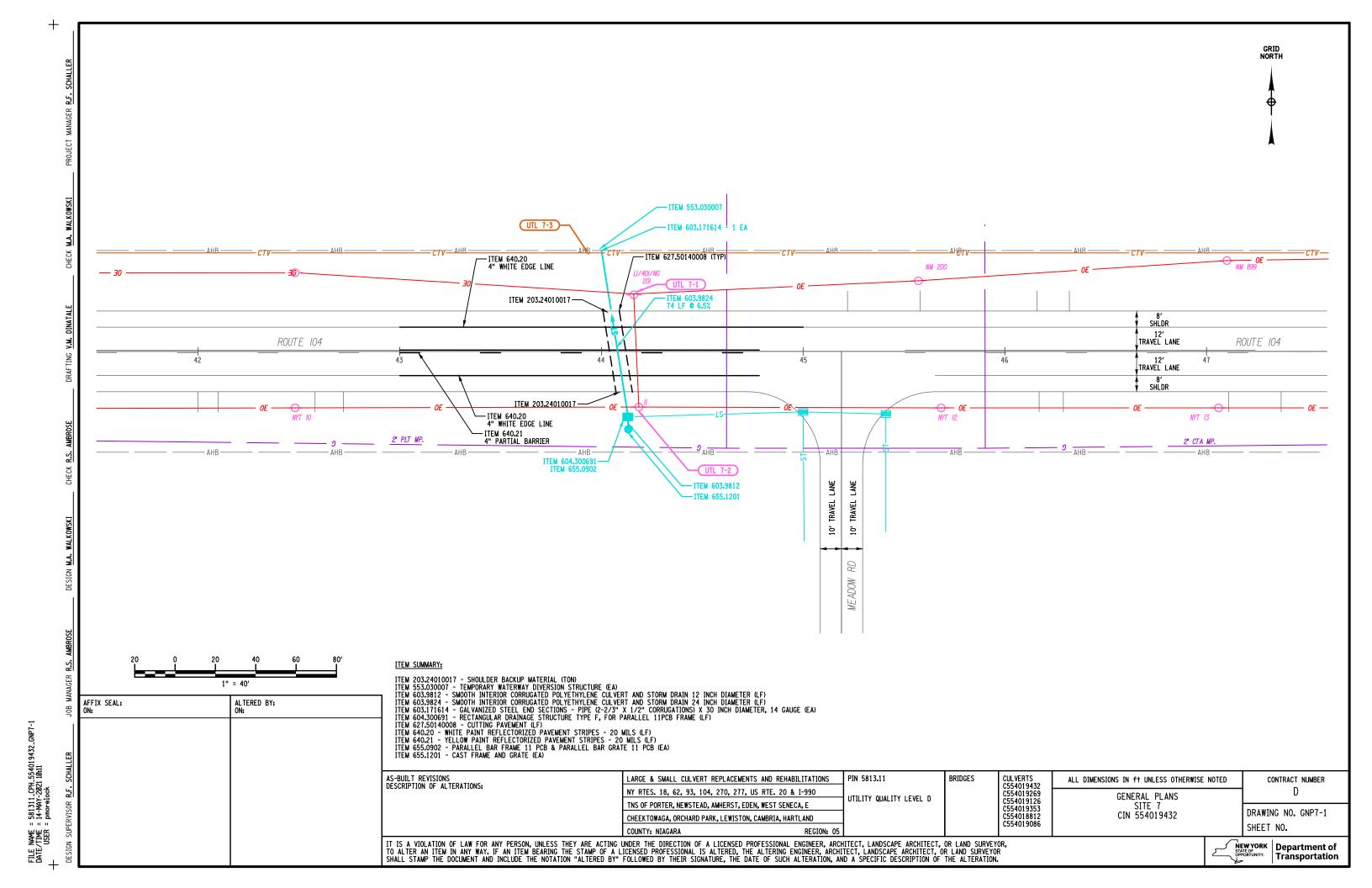
NUTE: DURING OTHER OPERATIONS, PVMS SHOULD DISPLAY REAL TIME INFORMATION.

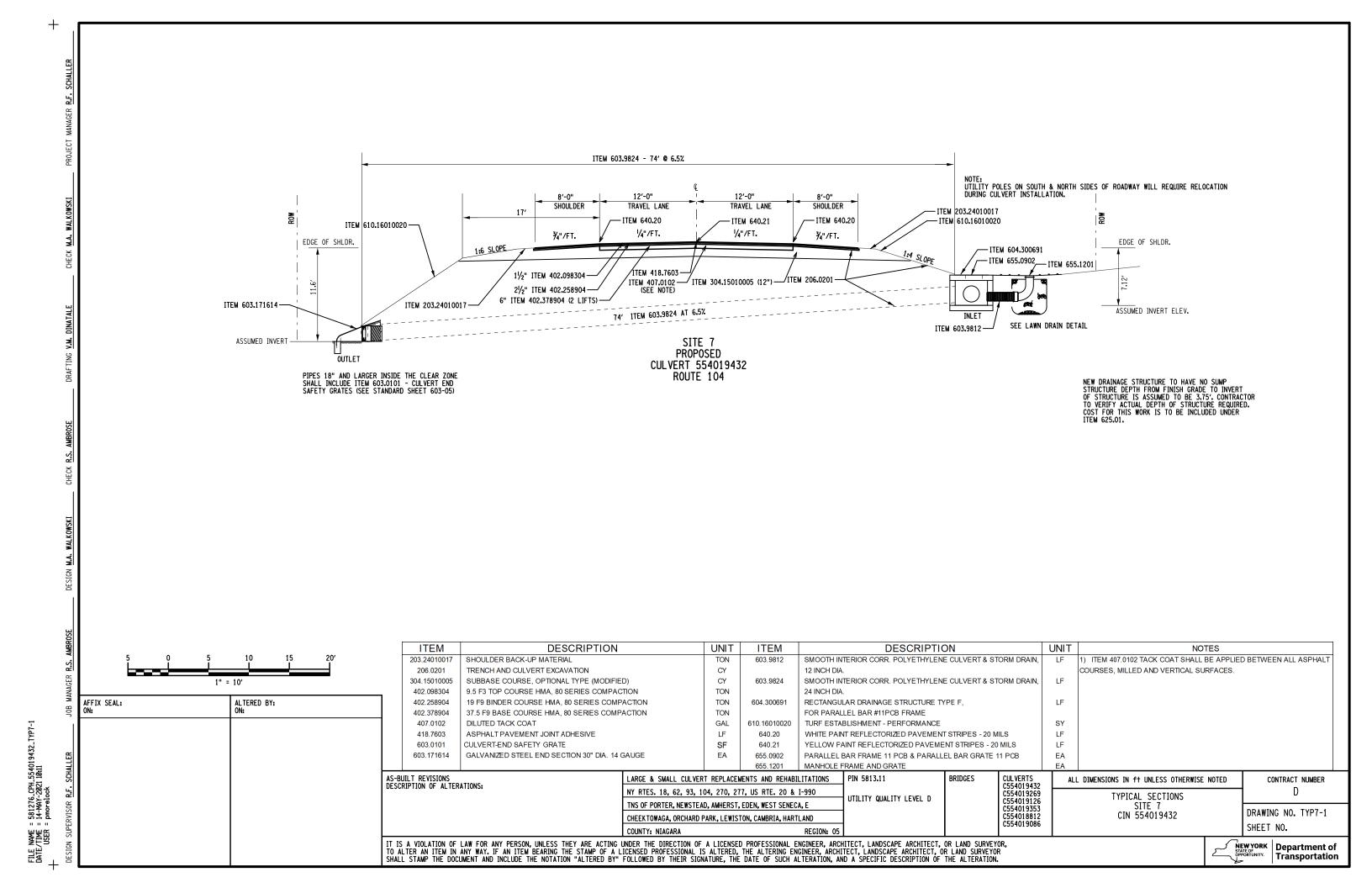
| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE & SMALL CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | BRIDGES | CUL VERTS C554019432 | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | CONTRACT NUMBER |
|--|--|-------------------------|---------|--------------------------|---|-----------------------|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | C554019269 | GENERAL NOTES | D |
| | TNS OF PORTER, NEWSTEAD, AMHERST, EDEN, WEST SENECA, E | UTILITY QUALITY LEVEL D | | C554019126 C554019353 | SITES 7 THRU 12 | DD 4 WITH O NO ONLY 4 |
| | CHEEKTOWAGA, ORCHARD PARK, LEWISTON, CAMBRIA, HARTLAND | | | C554018812 | | DRAWING NO. GNN-1 |
| | COUNTY: NIAGARA REGION: 05 | | | C554019086 | | SHEET NO. |

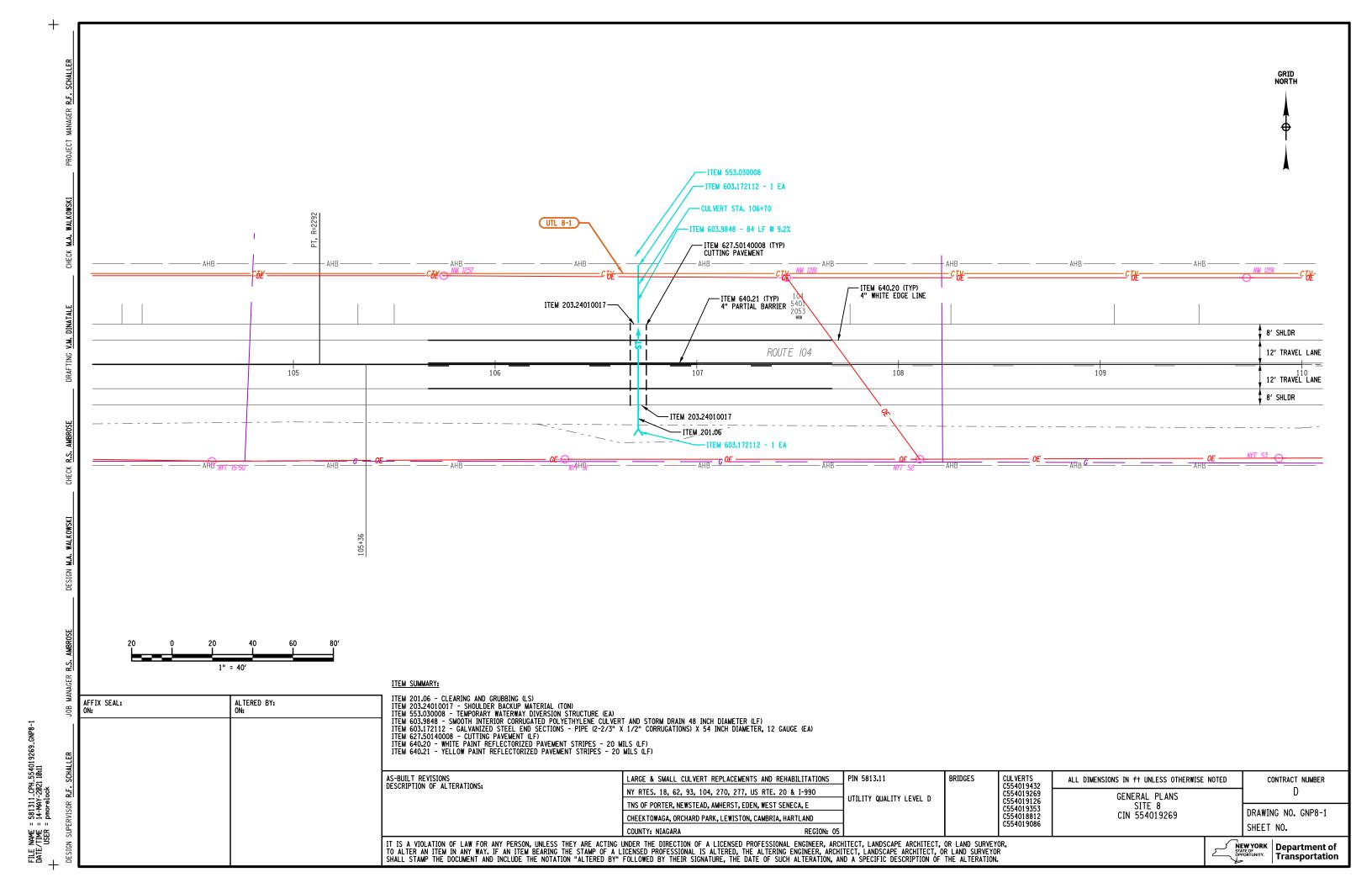
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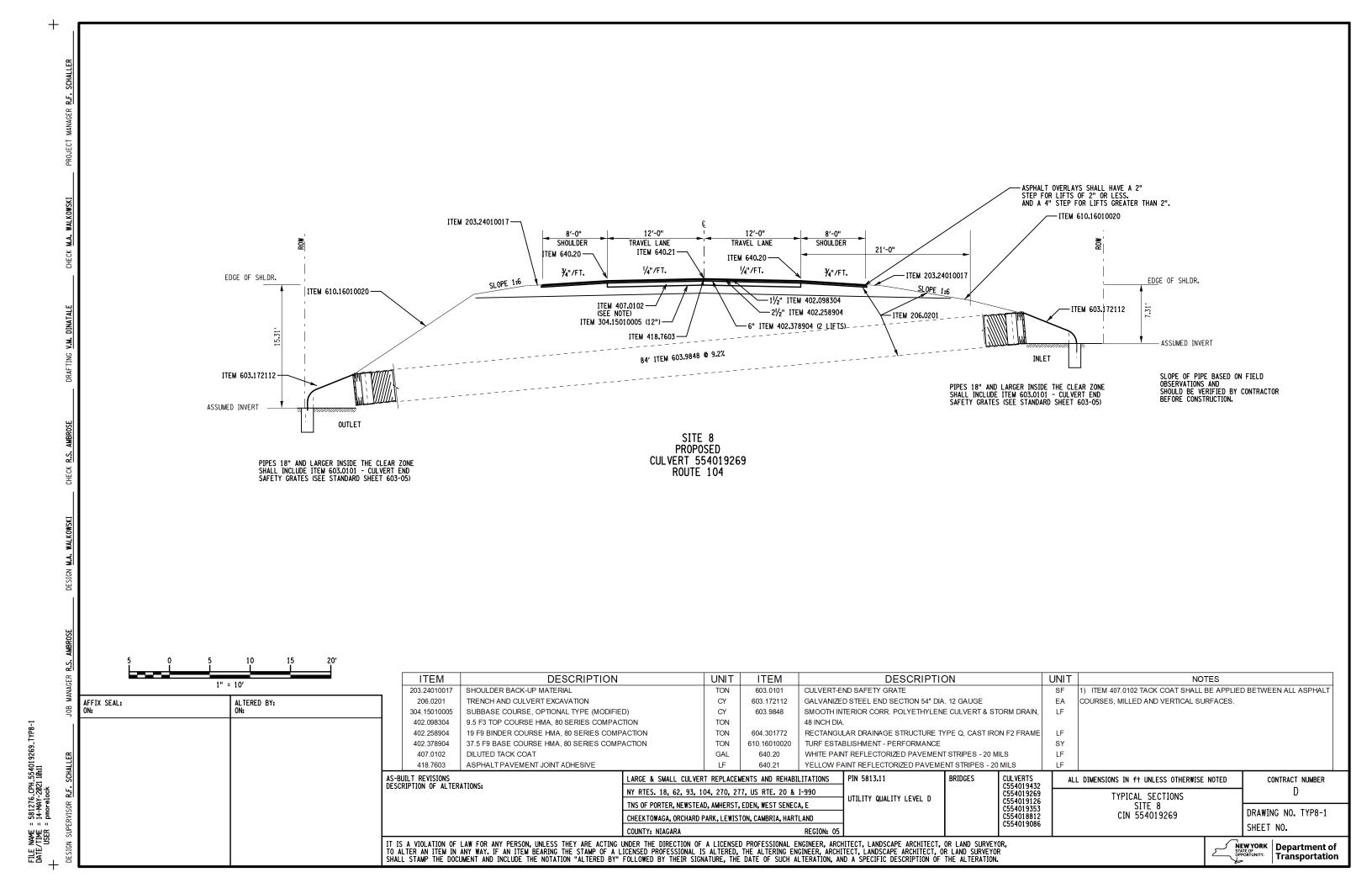


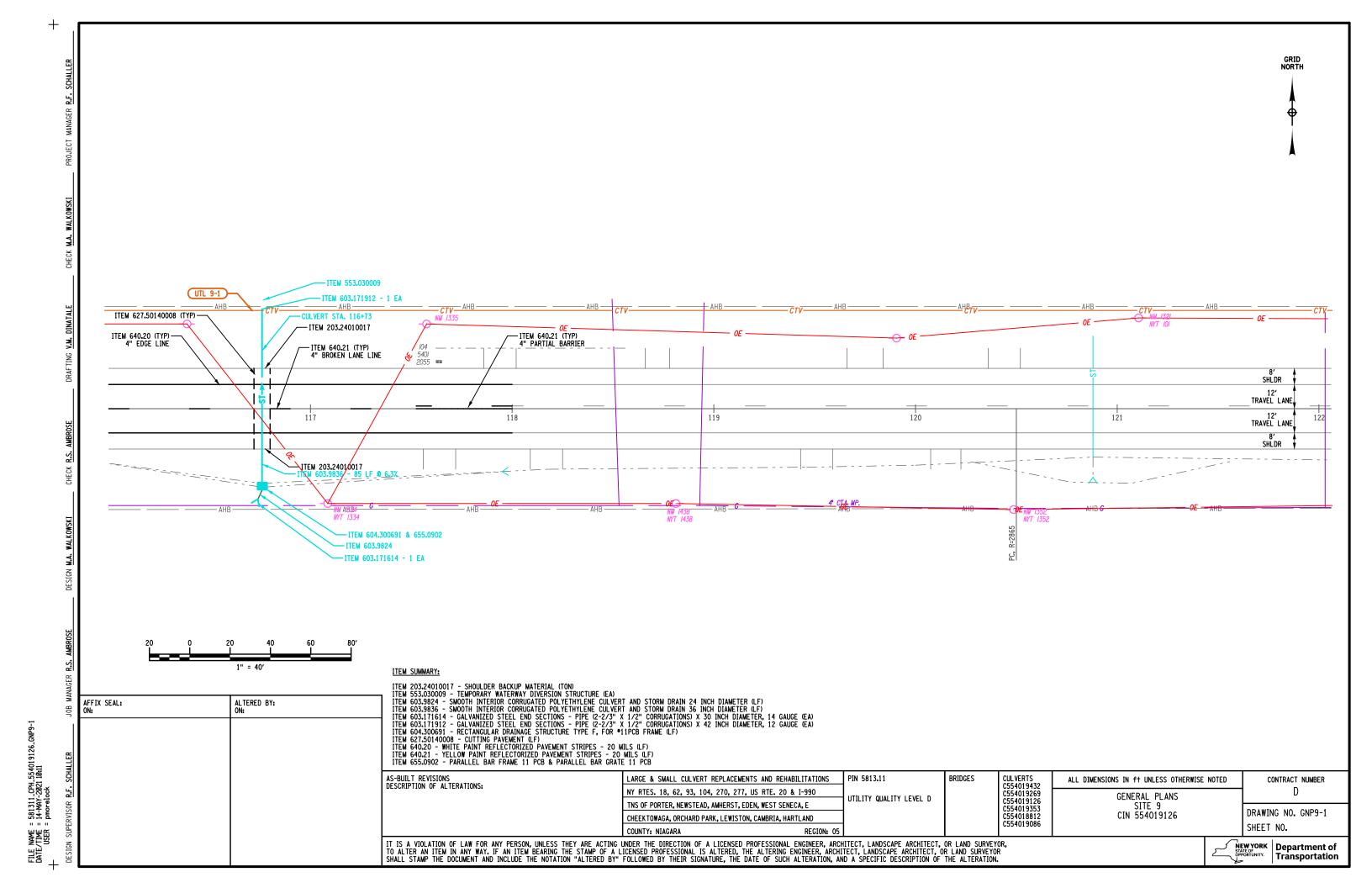


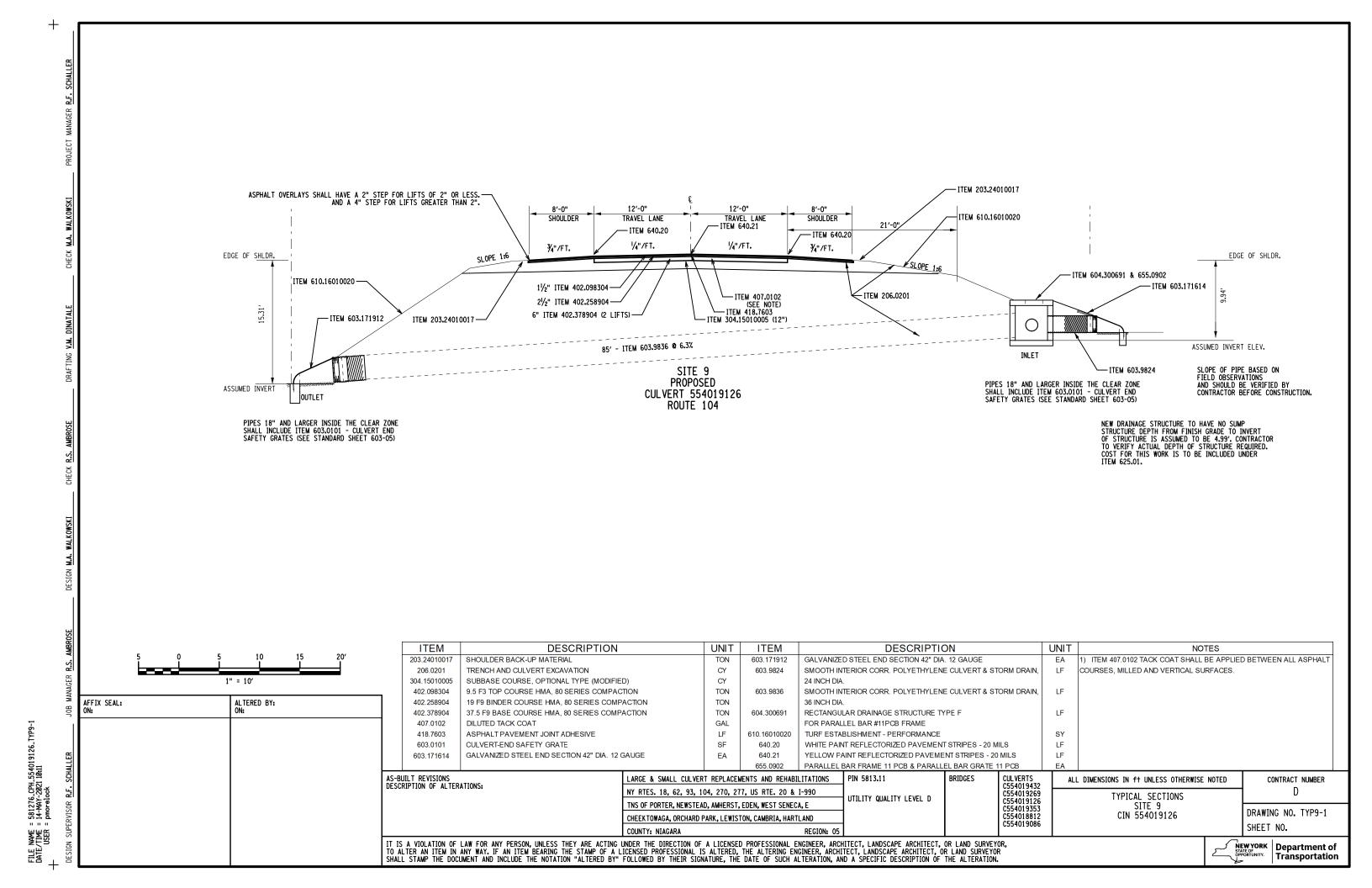


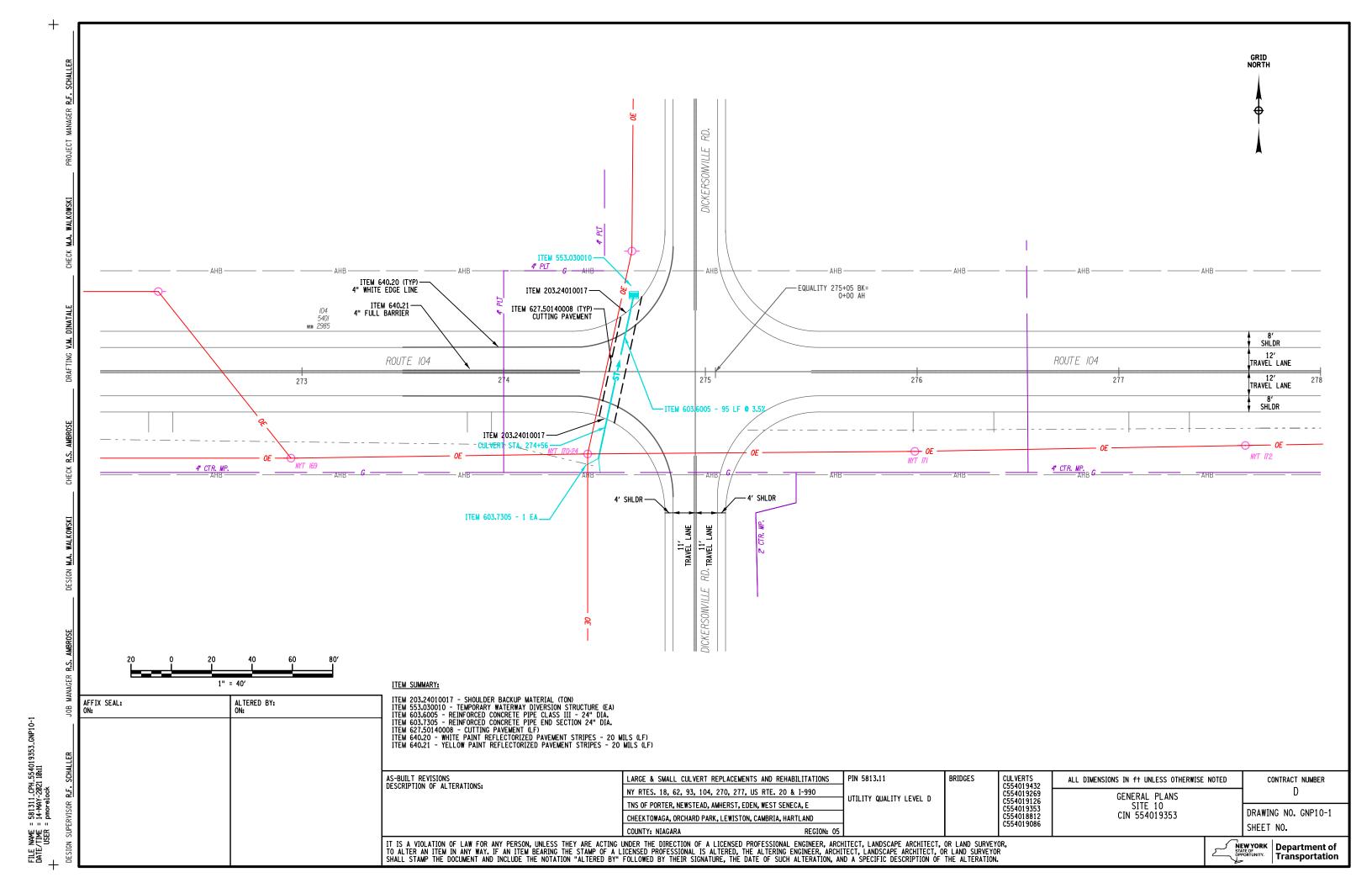


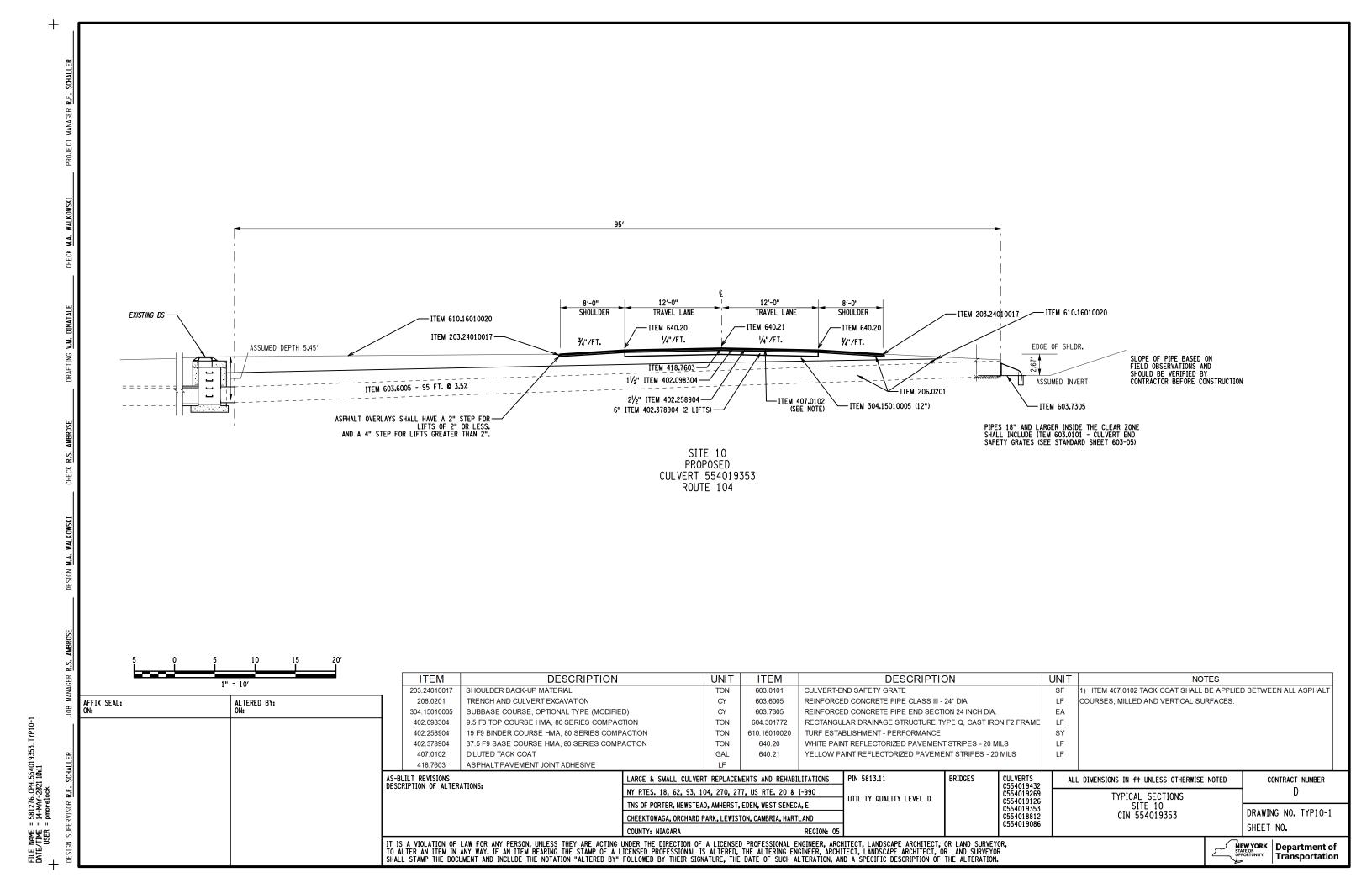


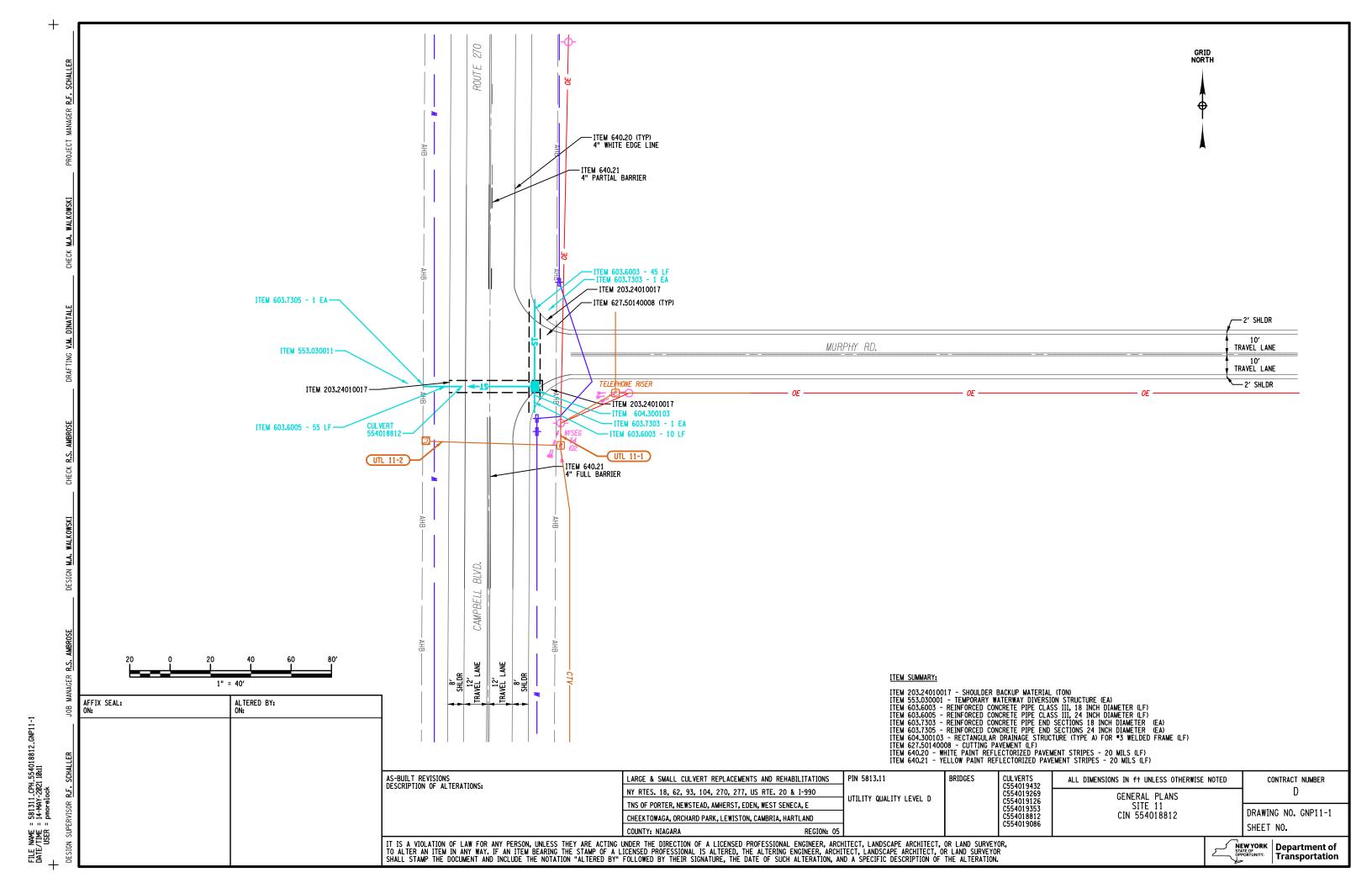


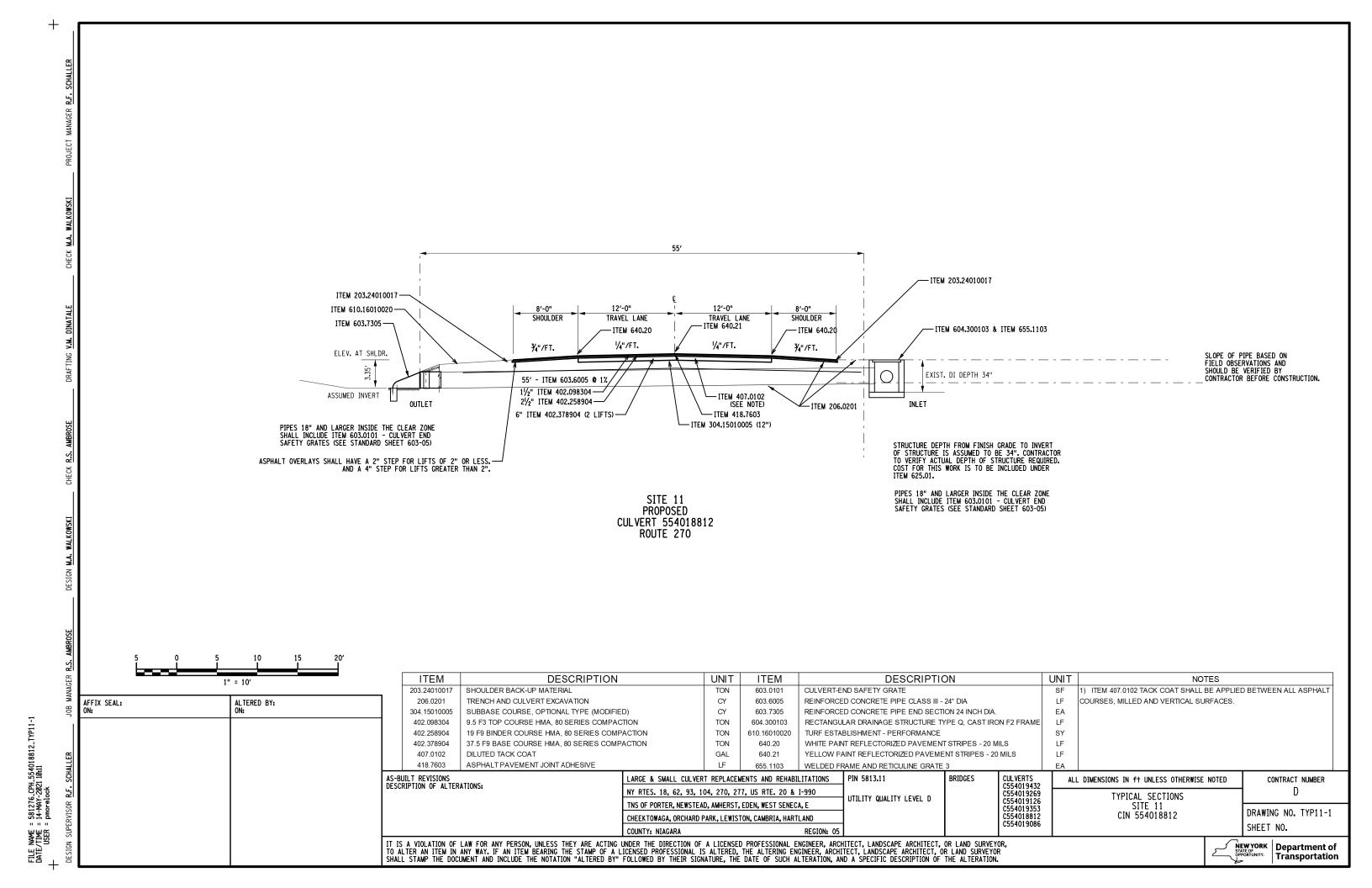


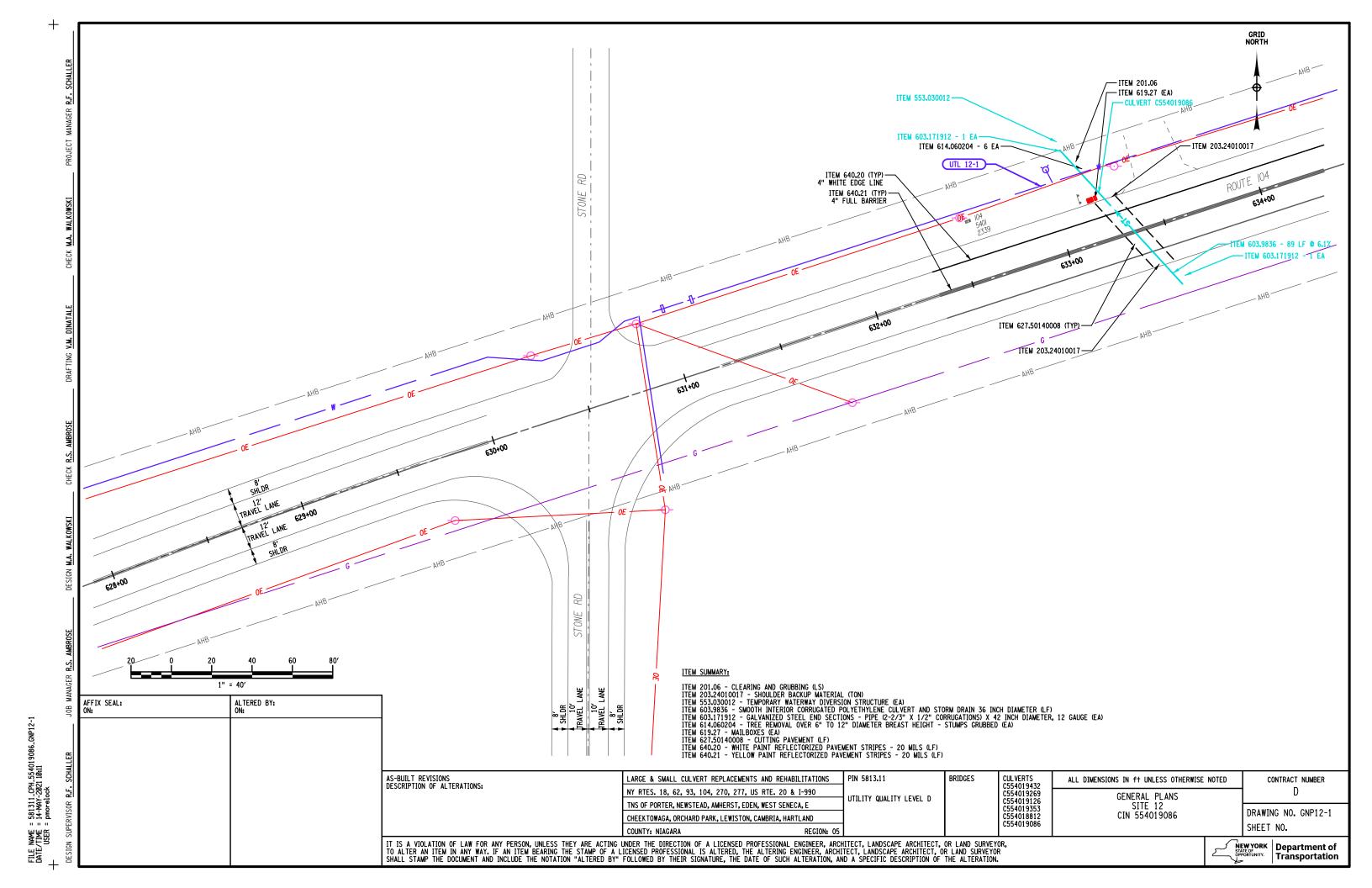


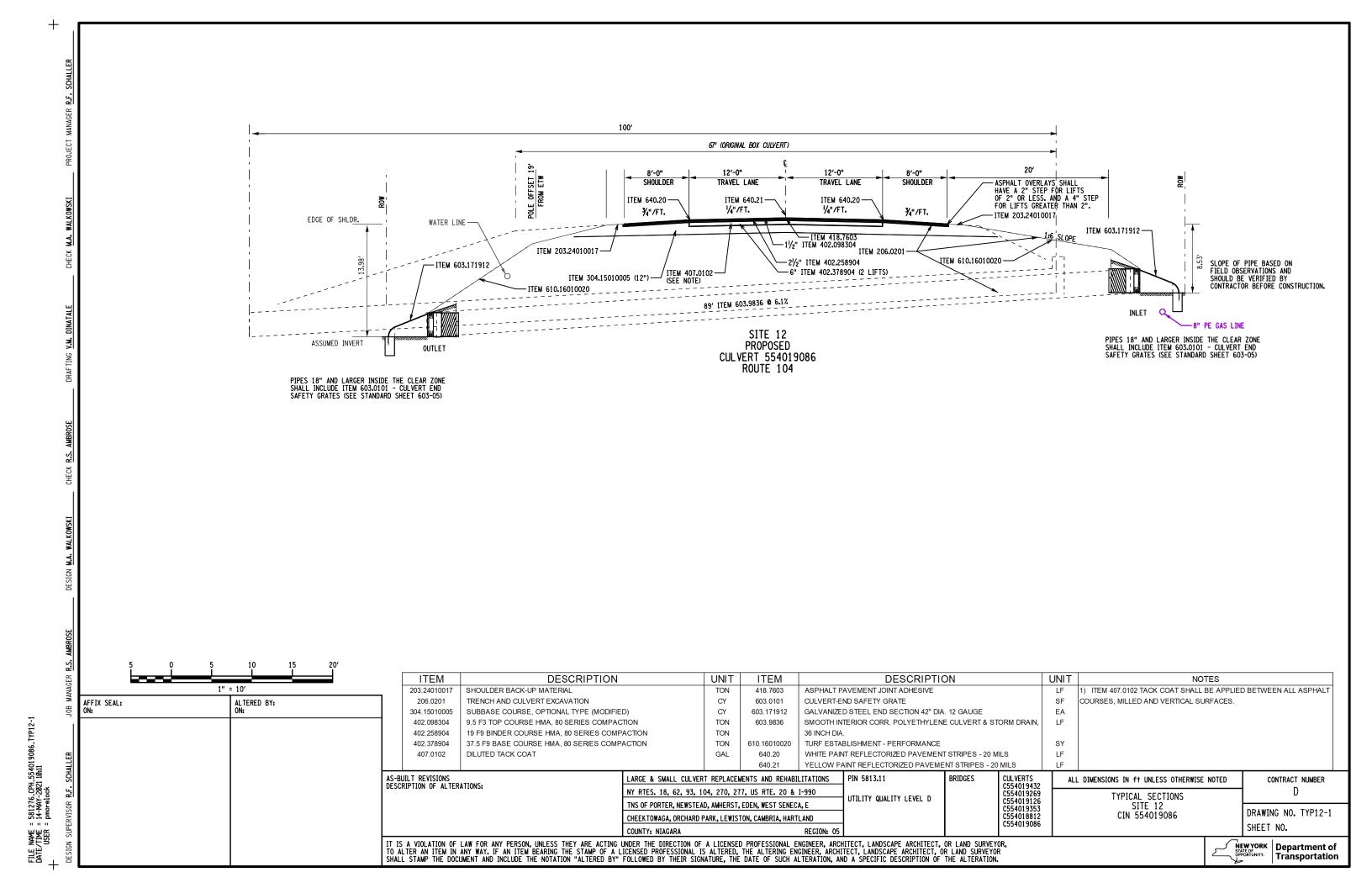












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CIN#

C554019432

C554019269

C554019126

C554019353

C554018812

C554019086

R.M.

5401 2052

5401 2055

5401 2085

270 5402 1049

2339

| ME = 581311_CPH_MST_01.dgn ME = 14-MAY-2021 10:11 SER = pmorelock | | | | | | |
|---|--|-----------------------|--------------------|------------------------|----------------------|--|
| SUPERVISOR R.F. SCHALLER | JOB MANAGER R.S. AMBROSE | DESIGN M.A. WALKOWSKI | CHECK R.S. AMBROSE | DRAFTING V.M. DINATALE | CHECK M.A. WALKOWSKI | CHECK M.A. WALKOWSKI PROJECT MANAGER R.F. SCHALLER |
| | AFFI) ON: | | | | | |
| | NOTES: 1. ALL DRA BASED (VERIFIED (SEAL: | 12 | 11 | 10 | 8 | SITE* |

| I | TEM |
|---|-----|
| | |

REMOVE EXISTING DRAINAGE PIPE. REPLACE WITH 89' OF 36" SICPP @ 6.1%.

OUTLET (NORTH SIDE RTE. 104).

ALL DRAINAGE STRUCTURES AND PIPES ELEVATIONS ARE BASED ON FIELD OBSERVATIONS AND SHOULD BE VERIFIED BY CONTRACTOR BEFORE CONSTRUCTION.

ALTERED BY:

| ITEM | SUMMARY: |
|------|----------|
| | |

DESCRIPTION

REMOVE EXISTING DRAINAGE PIPES.
REPLACE WITH 74' OF 24" SICPP @ 6.5% TO OUTLET
(NORTH SIDE OF RTE. 104).
REPLACE WITH 8' OF 12" SICPP AT INLET
(SOUTH SIDE OF RTE. 104).

REMOVE EXISTING DRAINAGE PIPE. REPLACE WITH 84' OF 48" SICPP @ 9.2%.

REMOVE EXISTING DRAINAGE PIPE. REPLACE WITH 85' OF 36" SICPP @ 6.3%.

REMOVE EXISTING DRAINAGE PIPE.

REPLACE WITH 95' OF 24" RCP @ 3.5%.

INSTALL TYPE F DS FOR *11PCB FRAME & CONNECT TO 24" SICPP HEADED SOUTH TO INLET & TO 36" SICPP HEADED NORTH TO OUTLET.

INSTALL TYPE F DS FOR PARALLEL BAR *11PCB FRAME & CONNECT DS TO 24" & 12" SICPP.
INSTALL 30" DIAMETER, 14 GAUGE GALVANIZED STEEL END SECTION AT OUTLET.

INSTALL 54" DIAMETER, 12 GAUGE GALVANIZED STEEL END SECTION AT INLET (SOUTH SIDE RTE. 104) AND OUTLET (NORTH SIDE RTE. 104).

CONNECT 42" DIA., 12 GAUGE GALVANIZED STEEL END SECTION TO 36" SICPP AT OUTLET & CONNECT 30" DIA, 14 GAUGE GALVANIZED STEEL END SECTION TO 24" SICPP AT INLET.

CONNECT 24" RCP TO EXISTING DS AT OUTLET (NORTH SIDE RTE. 104) & TO 24" RCP END SECTION AT THE INLET (SOUTH SIDE RTE. 104).

REMOVE EXISTING HEADWALL AT THE SE CORNER OF RTE. 270 AND MURPHY RD.
REMOVE EXISTING DRAINAGE PIPES ACROSS RTE. 270 AND MURPHY RD.
INSTALL TYPE A DS AT EXISTING DS.
CONNECT TO 18" RCP HEADED NORTH ACROSS MURPHY RD. &
CONNECT TO 24" RCP HEADED WEST ACROSS RTE. 270 TO OUTLET.
INSTALL 24" RCP END SECTION AT THE OUTLET (WEST SIDE RTE. 270).
INSTALL 18" RCP END SECTION AT THE END OF PIPE CROSSING MURPHY

REMOVE EXISTING DRAINAGE STRUCTURE AT THE INLET (EAST SIDE RTE. 270). REMOVE EXISTING HEADWALL AT THE SE CORNER OF

INSTALL 42" DIA., 12 GAUGE GALVANIZED STEEL END SECTION AT INLET (SOUTH SIDE RTE. 104) AND AT

ITEM 603.0101 - CULVERT-END SAFETY GRATE (SF)
ITEM 603.0101 - CULVERT-END SAFETY GRATE (SF)
ITEM 603.171614 - GALVANIZED STEEL END SECTION - PIPE (2-2/3" X 1/2") 30 INCH DIAMETER, 14 GAUGE (EA)
ITEM 603.172112 - GALVANIZED STEEL END SECTION - PIPE (2-2/3" X 1/2") 54 INCH DIAMETER, 14 GAUGE (EA)
ITEM 603.6003 - REINFORCED CONCRETE PIPE CLASS III, 18 INCH DIAMETER (LF)
ITEM 603.6005 - REINFORCED CONCRETE PIPE CLASS III, 24 INCH DIAMETER (LF)
ITEM 603.7303 - REINFORCED CONCRETE PIPE END SECTIONS 18 INCH DIAMETER (EA)
ITEM 603.7305 - REINFORCED CONCRETE PIPE END SECTIONS 24 INCH DIAMETER (EA)
ITEM 603.9812 - SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 12 INCH DIAMETER (LF)
ITEM 603.9824 - SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 24 INCH DIAMETER (LF)
ITEM 603.9836 - SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 36 INCH DIAMETER (LF)
ITEM 604.300103 - RECTANGULAR DRAINAGE STRUCTURE TYPE A FOR *3 WELDED FRAME (LF)
ITEM 604.300103 - RECTANGULAR DRAINAGE STRUCTURE TYPE A FOR *3 WELDED FRAME (LF)
ITEM 605.0902 - PARALLEL BAR FRAME 11 PCB & PARALLEL BAR GRATE 11 PCB (EA)
ITEM 655.1003 - WELDED FRAME & GRATE (EA)
ITEM 655.1003 - WELDED FRAME & GRATE (EA)

2 EA

DRAINAGE TABLE

2 EA

95 LF

55 LF

150 LF

2 EA

2 EA

55 LF

55 LF

12" SICPP

24" SICPP

48" SICPP

24" SICPP

36" SICPP

18" RCP

24" RCP

36" SICPP

TOTALS:

40 SF

216 SF

128 SF

30 SF

62 SF

176 SF

652 SF

1 EA

1 EA

1 EA

2 EA

3 EA

2 EA

ITEM 655.1201 - MANHOLE FRAME & GRATE (EA)

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE & SMALL CULVERT REPLACEMENTS AND REHABILITATIONS | PIN 5813.11 | C | SM CULVERTS C554019432 C554019268 | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED | | CONTRACT NUMBER | |
|--|--|-------------------------|---|---|---|--|--------------------|--|
| DESCRIPTION OF ALTERATIONS: | NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | | MISCELLANEOUS TABLE 1 | | 1 D | |
| | TNS OF PORTER, NEWSTEAD, AMHERST, EDEN, WEST SENECA, E | OTIETTI QUALITI ELVEL D | | C554019126 C554019353 | SITES 7 THRU 12 | | DDAWING NO MCT1 1 | |
| | CHEEKTOWAGA, ORCHARD PARK, LEWISTON, CAMBRIA, HARTLAND | | | C554018812 C554019086 | DRAINAGE TABLE | | DRAWING NO. MST1-1 | |
| | COUNTY: NIAGARA REGION: 05 | | | 0334013086 | | | SHEET NO. | |
| IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. Department Transports | | | | | | | | |

PIPE I.D. | 603.0101 | 603.171614 | 603.171912 | 603.172112 | 603.6003 | 603.6005 | 603.7303 | 603.7305 | 603.7305 | 603.9812 | 603.9824 | 603.9836 | 603.9848 | 604.300103 | 604.300691 | 655.0902 | 655.1003 | 655.1201

1 EA

1 EA

2 EA

8 LF

80 LF

74 LF

6 LF

85 LF

89 LF

174 LF

84 LF

5 LF

4 LF

6 LF

10 LF

5 LF

1 EA

1 EA

1 EA

1 EA

1 EA

JOB MANAGER R.S

AFFIX SEAL: ON:

| | ITEM 627.5 | 0140008 - CUTTING PAVEMENT (LF) | | |
|----------|---------------|---------------------------------|--------|-------------------|
| SITE NO. | CIN NO. | DESCRIPTION | | QUANTITY |
| 7 | CIN 554019432 | EACH SIDE OF TRENCH FOR PIPE | | 80.00 LF |
| 8 | CIN 554019269 | EACH SIDE OF TRENCH FOR PIPE | | 80.00 LF |
| 9 | CIN 554019126 | EACH SIDE OF TRENCH FOR PIPE | | 80.00 LF |
| 10 | CIN 554019353 | EACH SIDE OF TRENCH FOR PIPE | _ | 80.00 LF |
| 11 | CIN 554018812 | EACH SIDE OF TRENCH FOR PIPE | | 80.00 LF |
| 11 | MURPHY ROAD | EACH SIDE OF TRENCH FOR PIPE | | 96 . 00 LF |
| 12 | CIN 554019086 | EACH SIDE OF TRENCH FOR PIPE | | 80.00 LF |
| | | | TOTAL: | 576.00 LF |

| | | _ | IT MARKINGS | | |
|----------|---------------|--------|--------------------|---------------------|--------------------|
| SITE NO. | CIN NO. | SIDE | DESCRIPTION | ITEM 640.20 | ITEM 640.21 |
| 7 | CIN 554019432 | RIGHT | 4" SOLID EDGE LINE | 178 . 00 LF | |
| 7 | CIN 554019432 | LEFT | 4" SOLID EDGE LINE | 200 . 00 LF | |
| 7 | CIN 554019432 | CENTER | 4" PARTIAL BARRIER | | 222 . 50 LF |
| 8 | CIN 554019269 | RIGHT | 4" SOLID EDGE LINE | 200 . 00 LF | |
| 8 | CIN 554019269 | LEFT | 4" FULL BARRIER | 200 . 00 LF | |
| 8 | CIN 554019269 | CENTER | 4" FULL BARRIER | | 250 . 00 LF |
| 9 | CIN 554019126 | RIGHT | 4" SOLID EDGE LINE | 200 . 00 LF | |
| 9 | CIN 554019126 | LEFT | 4" SOLID EDGE LINE | 200 . 00 LF | |
| 9 | CIN 554019126 | CENTER | 4" PARTIAL BARRIER | | 59 . 50 LF |
| 9 | CIN 554019126 | CENTER | 4" BROKEN LINE | | 38.10 LF |
| 10 | CIN 554019353 | RIGHT | 4" SOLID EDGE LINE | 163.00 LF | |
| 10 | CIN 554019353 | LEFT | 4" SOLID EDGE LINE | 163.00 LF | |
| 10 | CIN 554019353 | CENTER | 4" FULL BARRIER | | 176.00 LF |
| 11 | CIN 554018812 | RIGHT | 4" SOLID EDGE LINE | 200.00 LF | |
| 11 | CIN 554018812 | LEFT | 4" SOLID EDGE LINE | 211.00 LF | |
| 11 | CIN 554018812 | CENTER | 4" FULL BARRIER | | 170 . 00 LF |
| 11 | CIN 554018812 | CENTER | 4" PARTIAL BARRIER | | 65 . 00 LF |
| 12 | CIN 554019086 | RIGHT | 4" SOLID EDGE LINE | 200 . 00 LF | |
| 12 | CIN 554019086 | LEFT | 4" SOLID EDGE LINE | 200 . 00 LF | |
| 12 | CIN 554019086 | CENTER | 4" FULL BARRIER | | 400.00 LF |
| | | • | TOTAL: | 2315 . 00 LF | 1381.1 LF |

ALTERED BY: ON:

| UTILITY DISPOSITION TABLE - SITES 7 THRU 12 | | | | | | | | |
|---|--------------|----------|---------------------|-------------------------------|-----------|----------|------------|--|
| OWNER | LOCATION NO. | DWG. NO. | PRESENT LOCATION | FEATURE | LOCATION | SITE NO. | CIN NO. | DESCRIPTION OF WORK |
| NATIONAL GRID | UTL 7-1 | GNP 7-1 | EXISTING R.O.W. | UTILITY POLE LI/401/NG/201 | ROUTE 104 | 7 | C554019432 | REQUIRES RELOCATION PRIOR TO CONSTRUCTION |
| NATIONAL GRID | UTL 7-2 | GNP 7-1 | EXISTING R.O.W. | UTILITY POLE 11 | ROUTE 104 | 7 | C554019432 | REQUIRES RELOCATION PRIOR TO CONSTRUCTION |
| | UTL 7-3 | GNP 7-1 | EXISTING R.O.W. | UNDERGROUND CATY LINE | ROUTE 104 | 7 | C554019432 | REQUIRES RELOCATION PRIOR TO CONSTRUCTION |
| VERIZON | UTL 8-1 | GNP 8-1 | EXISTING R.O.W. | UNDERGROUND CATV LINE | ROUTE 104 | 8 | C554019269 | REQUIRES RELOCATION PRIOR TO CONSTRUCTION |
| VENIZON | UTL 9-1 | GNP 9-1 | EXISTING R.O.W. | UNDERGROUND CATY LINE | ROUTE 104 | 9 | C554019126 | REQUIRES RELOCATION PRIOR TO CONSTRUCTION |
| | UTL 11-1 | GNP 11-1 | EXISTING R.O.W. | UNDERGROUND CATV LINE | ROUTE 270 | 11 | C554018812 | REQUIRES RELOCATION PRIOR TO CONSTRUCTION |
| WINDSTREAM | UTL 11-2 | GNP 11-1 | EXISTING R.O.W. | UNDERGROUND CATY LINE | ROUTE 270 | 11 | C554018812 | REQUIRES RELOCATION PRIOR TO CONSTRUCTION |
| TOWN OF HARTLAND WATER | UTL 12-1 | GNP 12-1 | EXISTING R.O.W. | WATERLINE | ROUTE 104 | 12 | C554019086 | WATERLINE RELOCATION |

| ITEM 552.17 - SHIELDS AND SHORING (SF) | | | | | | | |
|---|---------------|-----------|---------------|--------|----------|--|--|
| SITE NO. CIN NO. LOCATION REFERENCE MARKER QUANTI | | | | | QUANTITY | | |
| 7 | CIN 554019432 | ROUTE 104 | 104-5401-20 | 685 LF | | | |
| 8 | CIN 554019269 | ROUTE 104 | 104-5401-2052 | | 1057 LF | | |
| 9 | CIN 554019126 | ROUTE 104 | 104-5401-2055 | | 1258 LF | | |
| 12 | CIN 554019086 | ROUTE 104 | 104-5401-2339 | | 1059 LF | | |
| | | | | TOTAL: | 4059 LF | | |

| ITEM 619.27 - MAILBOXES (EA) | | | | | | | |
|---|---------------|-----------------------|---------------|--------|------|--|--|
| SITE NO. CIN NO. LOCATION REFERENCE MARKER QUANTITY | | | | | | | |
| 12 | CIN 554019086 | ROUTE 104 HOUSE #9933 | 104-5401-2339 | | 1 EA | | |
| | | | | TOTAL: | 1 EA | | |

| ITEM 614.060204 | - TREE REMOVAL | OVER 6" TO 12" DIA | A. BREST HEIGHT STUN | IP GRUBBED (EA) |
|-----------------|----------------|--------------------|----------------------|-----------------|
| SITE NO. | CIN NO. | LOCATION | REFERENCE MARKE | R QUANTITY |
| 12 | CIN 554019086 | ROUTE 104 | 104-5401-2339 | 6 EA |
| | | | TOTA | L: 6 EA |

| NΩ | TF |
|----|----|

THE UTILITY DISPOSITION TABLE SERVES AS A GUIDE ONLY. AND DOES NOT PRECLUDE THE POSSIBILITY THAT POLES OTHER THAN THOSE LISTED IN THE TABLE MAY REQUIRE RELOCATION AS DIRECTED BY THE ENGINEER.

THE UTILITY DISPOSITION TABLE DOES NOT INCLUDE POLES WHICH OTHERWISE COULD REMAIN IN PLACE, BUT WHICH MUST BE RELOCATED IN ORDER FOR THE UTILITY COMPANY TO ACCOMPLISH THE REQUIRED RELOCATION.

| AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: | LARGE & SMALL CULVERT REPLACEMENTS AND REHABILITATIONS | ITS AND REHABILITATIONS PIN 5813.11 BR | | SM CULVERTS C554019432 | ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTE | ED CONTRACT NUMBER | |
|--|--|--|--|---------------------------|--|--------------------|--|
| DESCRIPTION OF RETERRITORS. | NY RTES. 18, 62, 93, 104, 270, 277, US RTE. 20 & I-990 | UTILITY QUALITY LEVEL D | | C554019269 | MISCELLANEOUS TABLE 2 | D | |
| | TNS OF PORTER, NEWSTEAD, AMHERST, EDEN, WEST SENECA, E | OTICITY WORLTH ELVEL D | | C554019126 C554019353 | SITES 7 THRU 12 | DRAWING NO. MST1-2 | |
| | CHEEKTOWAGA, ORCHARD PARK, LEWISTON, CAMBRIA, HARTLAND | | | C554018812 C554019086 | | | |
| | COUNTIESNIAGARA REGION: 05 | | | 0334013000 | | SHEET NO. | |
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