

EASTCHESTER RELIEF STORM SEWER VILLAGE OF WHEELING, ILLINOIS ENGINEERING IMPROVEMENT PLANS

SECTIONS 11 & 23 TOWNSHIP 42 NORTH RANGE 11 EAST COOK COUNTY

VILLAGE OF WHEELING - VILLAGE HALL:
2 Community Boulevard
Wheeling, IL 60090
Tel: 847-459-2600
Fax: 847-459-9692

VILLAGE OF WHEELING - PUBLIC WORKS:
77 W. Hintz Road
Wheeling, IL 60090
Tel: 847-279-6900
Fax: 847-279-6420

PREPARED BY:
Haeger Engineering LLC
Illinois Prof. Design Firm #184-003152
100 East State Parkway
Schaumburg, IL 60173
Tel: 847-394-6600
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SOURCE BENCHMARKS:

VILLAGE OF WHEELING BM-15
2.5" Aluminum Disk Stamped "Village of Wheeling - Survey Marker" at sanitary lift station at southeast corner of Dundee Road & Milwaukee Ave.

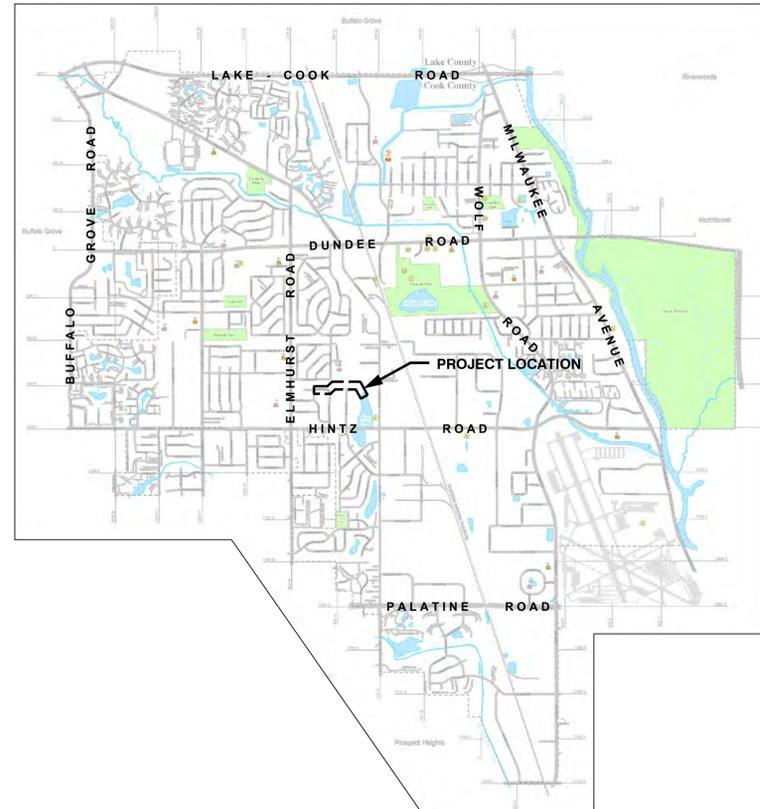
Elevation = 646.315 (NAVD 88)

VILLAGE OF WHEELING BM-22

2.5" Aluminum Disk stamped "Village of Wheeling - Survey Marker" on south side of Hintz Road bridge, approximately 500-ft west of Wheeling Road.

Elevation = 649.119 (NAVD 88)

See Sheets 5-6 for Site Benchmarks



Existing Symbol	Description	Proposed Symbol
⊙	Storm Sewer Manhole	⊙
□	Catch Basin	■
○	Inlet	●
⊙	Sanitary Sewer Manhole	⊙
⊙	Clean Out	⊙
—>	Storm Sewer	—>
—>	Sanitary Sewer	—>
—	Water Main	—
—	Water Main Service	—
⊙	Fire Hydrant	⊙
⊙	Valve Vault	⊙
⊙	Valve Box	⊙
⊙	B-Box	⊙
⊙	Light Pole	⊙
⊙	Hand Hole	⊙
—x—	Fence	—x—
d	Sign	d
⊙	Gas Valve	⊙
—	Gas Line	—
—	Electric Line	—
⊙	Lamp Post	⊙
—	Curb & Gutter	—
—	Retaining Wall	—
C XXX.XX	Curb Elevation and	
G/P XXX.XX	Gutter/Pavement Elevation	
XXX.XX	Pavement Elevation	
XXX.XX	Sidewalk Elevation	
XXX.XX +	Ground Elevation	
Gr XXX.XX	Open Lid Frame & Grate	
Rim XXX.XX	Closed Lid Frame & Lid	
---	Contour Line	
⊙	Deciduous Tree	⊙
⊙	Coniferous Tree	⊙
⊙	Bush	⊙

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C1.0	TITLE SHEET
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C3.0	EXISTING CONDITIONS, DEMOLITION, & EROSION CONTROL PLAN
C4.0	PLAN & PROFILE STA. 0+00 TO STA. 5+50
C4.1	PLAN & PROFILE STA. 5+50 TO STA. 11+50
C4.2	PLAN & PROFILE STA. 11+00 TO STA. 16+00
C4.3	PLAN & PROFILE STA. 16+00 TO STA. 18+00
C5.0-5.2	STANDARD DETAILS



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Note:
Call 811 at least 48 hours, excluding weekends and holidays, before you dig.



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TITLE SHEET
EASTCHESTER RELIEF STORM SEWER
CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

Project Manager: M.L.A.
Engineer: J.D.L.
Date: 03.26.2020
Project No. 18-253
Sheet **C1.0** / C5

PAVING NOTES AND CONDITIONS

- The Contractor shall coordinate construction activities with utility companies and the Village of Wheeling.
- The Contractor shall be responsible for the protection of all underground utilities even though they may not be shown on the plans. Therefore, the Contractor shall have the respective utility companies field locate all of their facilities prior to beginning construction. Any relocation or lowering of utilities shall be coordinated by the Contractor. Utilities that are damaged during construction shall be repaired or replaced by the Contractor at his own expense.
- Ten (10) feet or three (3) meter transitions shall be used to match proposed curb and gutter and median items of work to existing curbs & gutters and medians in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed items of work specified.
- Barricades: The Contractor shall provide and install two (2) weighted sandbags on each type I or type II barricade used- (1) weighted sand bag across each bottom rail.
- All the work performed by the Contractor shall be guaranteed for a period of twelve (12) months from the date of final acceptance by IDOT. This guarantee shall include all defects in materials and workmanship.
- The Village of Wheeling, Illinois, Public Works Department must be notified at least two (2) working days prior to a request for inspection, commencement or resumption of any work.
- The Contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures and all other measures that are necessary to protect the safety of the project area at all times.
- All structures, inlets, pipes, swales and roads must be kept clean and free of dirt and debris at all times.
- Adjustment of any sanitary sewer manhole frames shall include the installation of chimney seals in accordance with Village requirements. The cost of the chimney seal shall be considered incidental to the adjustment of the structure.
- Any defective or non-bicycle safe frame & grates shall be brought to the Village's attention. All frames & grates to be replaced shall remain property of the Village and shall be stored in the right-of-way for pick up by the Village.
- Any mailboxes that are in conflict with the proposed construction shall be removed and replaced in accordance with the Village standards. This work will be included in the contract. Mail service shall be maintained all the times. Contractor must be careful with the existing mailboxes. Any damaged mailboxes shall be replaced by the Contractor at no additional cost to the homeowner or the Village.
- Existing driveway pavement, sidewalk, and curb and gutter to remain in place shall be saw cut full depth to provide a neat vertical face between the proposed and the existing structure. This work shall be considered incidental to each pay item.
- Brick driveway pavement shall be constructed on 8-inches of compacted CA-6 Grade 8 crushed limestone base (2 lifts) topped with 1-inch of sand, price of which shall be included in the pay item brick driveway pavement. No extra compensation will be allowed.
- Class D patches shall be constructed at locations determined by the engineer in the field. Any saw cuts associated with this pay item will be considered incidental and no extra compensation will be made. Any subbase removal beneath it will also be incidental.
- Any roots encountered while removing the sidewalk or driveway aprons shall be saw-cut and disposed by the Contractor.
- Tree root pruning shall be provided at each tree location, the price of which shall be included in the pay item tree root pruning. No extra compensation will be allowed.
- Limits of curb & gutter and sidewalk removal are approximate and shall be marked in field by Engineer/Owner. Limits are subject to change.
- All items which are damaged or disturbed as a result of work shall be replaced to existing condition or better at the contractor's expense.
- Access to streets and private driveways shall be provided at all times except during actual construction adjacent thereto. Temporary ramps shall be constructed as necessary to provide such access utilizing crushed aggregate (cost incidental). It will be the Contractor's responsibility to notify the residents and businesses when access to their driveways will be temporarily closed due to curb and gutter, driveway or sidewalk replacement. The contractor shall distribute Village approved notices of anticipated closures. Every effort shall be made to accommodate access to these properties involving placement of pavement in stages across driveways and knocking on doors when driveways will be closed.
- Contractor shall ensure that access by Mail Delivery, Garbage Removal School Buses and Emergency Vehicles on public streets is maintained at all times.
- Restoration limits shall be limited to maximum of 2-ft immediately adjacent to edge of removed and replaced curb and gutter, sidewalk or driveway. Any additional disturbed areas will not be paid for.

CONC. CURB, SIDEWALK & PAVING NOTES

- The finished hot-mix asphalt surface course shall be constructed to 1/4" above the edge of gutter flag.
- The proposed curb and gutter shall be depressed at abutting sidewalks and across driveways as indicated on the plans.
- Saw cutting required for removal of existing driveway pavement, sidewalk, curb and gutter and where the proposed pavement abuts existing pavement to remain in place (begin, end and limits of construction) shall be as specified in article 440 of the Standard Specifications. Provide a neat vertical face between the proposed and existing surfaces. Saw cutting shall be included in the pay item being removed. All saw cutting shall be full depth.
- Curb & gutter and driveway replacement work shall be limited to one side of the street in each direction at a time to minimize congestion. Full depth saw cut 1 foot minimum off of edge of pavement is required prior to C&G removal to allow space for proper compaction of pavement base course (incidental).
- Construction operations involving temporary closing of driveways or roads shall not commence without at least three (3) working days prior notice to the Village by the Contractor. The Contractor will also be required to provide 48 hours notice to affected parties by distributing written notices and posting signs.
- Construct temporary ramps to adjoining pavement or driveways as needed or directed by Engineer. These ramps must be minimum two car wide and shall be constructed for the entire depth of pavement removal. These ramps shall be constructed using crushed limestone CA-6, Gr-8, virgin material or as directed by the Engineer. Proper temporary driveway entrance signs must be installed. The Contractor is responsible to maintain open access to all side streets, homes, industries, and businesses at all times. These temporary ramps shall be considered incidental to pavement removal and will not be paid for separately.
- All the density tests will be performed by using cores.
- Leveling binder shall be used around the structures in the roadway in variable thickness as necessary or as determined by the engineer.
- Protective coating for all concrete structures shall be considered included in cost of respective pay items.
- Proposed $\frac{1}{2}$ " preformed expansion joint is required at concrete sidewalk, driveways and curb and gutter and shall be incidental to the curb and gutter removal and replacement.
- In areas where the existing driveway, sidewalk or curb and gutter is to be removed and replaced, the removal and disposal of any additional material required to establish the proposed driveway, sidewalk or curb and gutter subgrade elevation shall be included in the respective removal pay items.
- If any milled pavement is open to traffic, the maximum grade differential between passes of milling machine shall not exceed 1.5 inches.
- If any soft or yielding materials are encountered on subgrade, the Contractor will at the direction of the Geotechnical Engineer to remove the material and replace with porous granular embankment, subgrade.

DRAINAGE NOTES

- Any saw cuts and excavation required to remove and install drainage structures or storm sewer pipe shall be considered incidental to the item being removed or installed.
- Trench backfill used shall be CA-6 (grade-8) crushed limestone and shall be considered incidental to the item being installed. No crushed concrete will be allowed as trench backfill material. Trench backfill shall be provided up to the existing pavement grade to eliminate any voids created and to provide temporary roadway access. The backfill material shall be placed in 8 inch lifts, loose measurement, and compacted by mechanical means to the satisfaction of the engineer.
- Contractor must imply careful method to salvage all existing pipes. If any of the existing pipes are damaged during construction, the Contractor shall replace the damaged pipe at no extra cost to the Village. No extra compensation will be allowed.
- Inlet and pipe protection must be installed in all open grate structures that receive drainage from disturbed areas prior to commencing the work and shall be maintained regularly throughout the length of the project.
- Contractor shall grade and construct improvements to provide positive drainage. Ponding water will not be permitted.
- All Frame & Lid castings located within pavement which required adjusting to finished grade shall be backfilled with Class SI Concrete and allowed to cure for 72 hours prior to placement of surface course. Class PP Concrete shall be utilized if surface course is to be placed in less than 72 hours. HMA materials will not be allowed as backfill around adjusted frames. This work shall be incidental to drainage & utility structures to be adjusted.
- All storm drainage structures in curbs shall have modified drainage structure and pipe underdrain (special) per Village of Wheeling details.

TRAFFIC / CONSTRUCTION STAGING

The Contractor shall submit a pre-planned sequence of work at the pre-construction meeting for review and approval. The Contractor's superintendent and the Resident Engineer will be required to work together with the affected residents in planning their construction schedule so as to minimize the inconvenience and maintain a reasonable level of construction efficiency. The Resident Engineer and/or the Village reserve the right to restrict work on a pavement segment if construction operations on the previous segment are unacceptable.

- The sequence of traffic / construction staging is recommended in the order listed below:
- Stage 1 - Utility & Drainage structure improvements
 - Stage 2 - Curb and gutter, driveway and sidewalk removal and replacement where identified
 - Stage 3 - Pavement removal (see typical section for depth of removal)
 - Stage 4 - Pavement replacement - Resurfacing Areas
 - Repair aggregate sub-base and/or subgrade in identified deteriorated areas
 - Profile-rolled compacted aggregate base course areas
 - Install hot-mix asphalt binder course, in one 3" lift - install hot-mix asphalt surface course
 - Stage 5 - Install pavement markings and restoration as required

DRIVEWAY CLOSINGS:

It will be the Contractor's responsibility to notify residents and the Village two (2) days in advance when access to the residents' driveways will be temporarily closed due to the curb and gutter and/or driveway replacement. The Contractor shall distribute notices APPROVED by the Village, to the residents/property owners. Every effort shall be made to accommodate access to these properties (i.e. knock on doors when driveway is about to be closed).

DEBRIS REMOVAL:

Materials resulting from the removal of pavement, driveways, curb and gutter, Hot-Mix Asphalt pavement and subgrade, etc. shall be removed at the end of each day to a village approved site. In the judgment of the Village, should it be necessary to remove such materials, the Village will have the material removed and the Contractor shall be billed (charged) accordingly.

WATER SUPPLY:

The Contractor can obtain municipal water in bulk, at NO CHARGE, as long as there is not a "watering ban" in effect. Prior to obtaining any water, an account with the Finance Department must be set up for documentation on water usage. The indiscriminate use of fire hydrants is strictly prohibited. Water for construction shall be metered or otherwise accounted for on a daily log maintained with the Public Works Department. The Contractor shall provide the water truck and driver required to obtain and transport this water. The Village reserves the right to restrict or refuse the use of Village water if deemed necessary.

ADDITIONAL SPECIFICATIONS / INCIDENTALS NOTES:

- Monolithically poured curb for the 'MODIFIED CURB DRAINAGE STRUCTURE TO BE ADJUSTED' shall be incidental to the cost of that pay item. No extra compensation will be paid for lineal feet of curb and gutter.
- 'REMOVAL & DISPOSAL OF UNSUITABLE MATERIALS' shall include the removal of all uncontaminated material required for removal in order to achieve the proposed design elevations, as well as any material required for undercut removals as directed by the Geotechnical Engineer.
- Removal and Disposal of 'CONTAMINATED WASTE' shall include the storage, removal, and proper disposal of any materials determined to be 'contaminated' in accordance with IEPA standards.
- All existing mailboxes are to remain in service at all times. Any necessary removals and/or re-installations of mailboxes shall be done at the expense of the Contractor and are incidental to the Contract.
- Whenever the performance of work is indicated on the plan, and no pay item is included in the contract for payment, the work shall be considered incidental to the contract and no additional compensation will be allowed.

#	DESCRIPTION	UNIT	QUANTITY
1	TREE TRUNK PROTECTION	EA	6
2	TREE REMOVAL	EA	6
3	TREE ROOT PRUNING	EA	6
4	SILT FENCE	LF	2550
5	6-FT CHAIN-LINK FENCE REMOVAL AND REPLACEMENT	LF	50
6	6-FT CHAIN-LINK FENCE GATE INSTALLATION	EA	2
7	5-FT TEMPORARY CONSTRUCTION FENCE	LF	500
8	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CY	100
9	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	LF	50
10	DRIVEWAY PAVEMENT REMOVAL	SY	15
11	SIDEWALK REMOVAL	SF	1125
12	PAVEMENT REMOVAL ABOVE UTILITY TRENCH	SY	627
13	STORM SEWER REMOVAL	LF	27
14	BLOCK STORM SEWER	EA	4
15	MOBILIZATION	LS	1
16	CONSTRUCTION LAYOUT	LS	1
17	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LS	1
18	POROUS GRANULAR EMBANKMENT	CY	100
19	COMBINATION CONCRETE CURB & GUTTER, TY M (SPECIAL) - M3.12	LF	50
20	CURB WEDGE AREA BACKFILL (P.C.C.)	LF	50
21	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6-INCH	SY	15
22	PCC SIDEWALK, 5-INCH	SF	1125
23	BITUMINOUS MATERIALS (TACK COAT)	POUND	50
24	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2-INCH	SY	630
25	HOT-MIX ASPHALT BINDER COURSE, IL-19, N50, 3-INCH	SY	630
26	AGGREGATE BASE COURSE, 12-INCH	SY	630
27	8-INCH WATERMAIN ADJUSTMENT	LF	65
28	ADJUST SANITARY SERVICE 6-INCH TO CLEAR STORM SEWER	LF	245
29	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	1
30	MODIFIED CURB DRAINAGE STRUCTURE STANDARD	EACH	1
31	INLET & PIPE PROTECTION	EACH	2
32	24-INCH PVC C-900 STORM SEWER	LF	27
33	30-INCH RCP STORM SEWER	LF	18
34	36-INCH RCP STORM SEWER	LF	1563
35	36-INCH RCP STORM SEWER - ELLIPTICAL	LF	203
36	MANHOLE 60-INCH DIAMETER	EA	11
37	MANHOLE 72-INCH DIAMETER	EA	4
38	MANHOLE 72-INCH DIAMETER, OVERFLOW STRUCTURE	EA	1
39	CATCH BASIN 60-INCH DIAMETER	EA	1
40	FLARED END SECTION 36-INCH	EA	1
41	SEWER TELEVISION	LF	1811
42	TEMPORARY COFFERDAM, TYPE 1	LS	1
43	IN-STREAM WORK	LS	1
44	TOPSOIL FURNISH & PLACE, 3-INCH	SY	3605
45	NITROGEN, POTASSIUM, PHOSPHORUS FERTILIZER NUTRIENT	POUND	40
46	SEEDING, NATIVE SEEDING, WITH BLANKET	SY	30
47	SEEDING, IDOT CLASS 1, WITH BLANKET	SY	950
48	SEEDING, IDOT CLASS 4A, WITH BLANKET	SY	2200
49	SODDING	SY	425
50	TREE, RED MAPLE, 3-INCH CALIPER	EA	8
51	CONSTRUCTION CONTINGENCY	LS	1

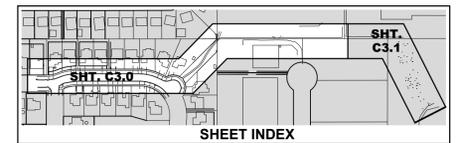
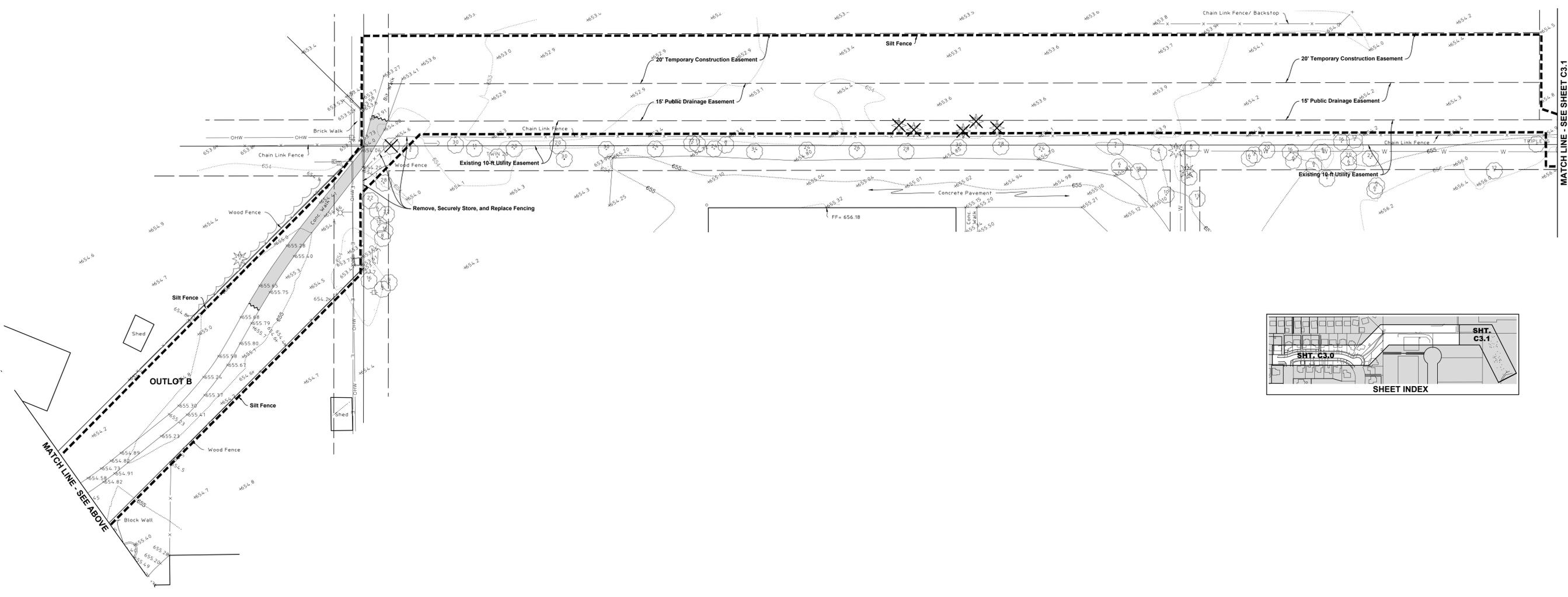
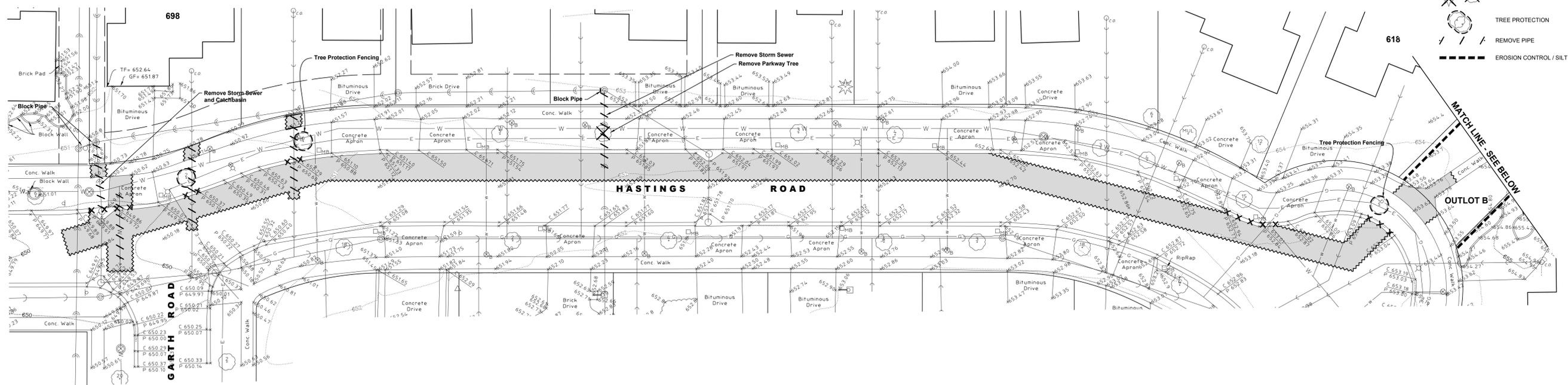
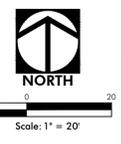
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GENERAL NOTES & SPECIFICATIONS
EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS
 VILLAGE OF WHEELING, ILLINOIS

Project Manager: M L A
 Engineer: J D L
 Date: 03.26.2020
 Project No. 18-253
 Sheet **C2.1** / C5

LEGEND

- PAVEMENT REMOVAL
- CURB REMOVAL
- SAW CUT
- TREE REMOVAL
- TREE PROTECTION
- REMOVE PIPE
- EROSION CONTROL / SILT FENCE



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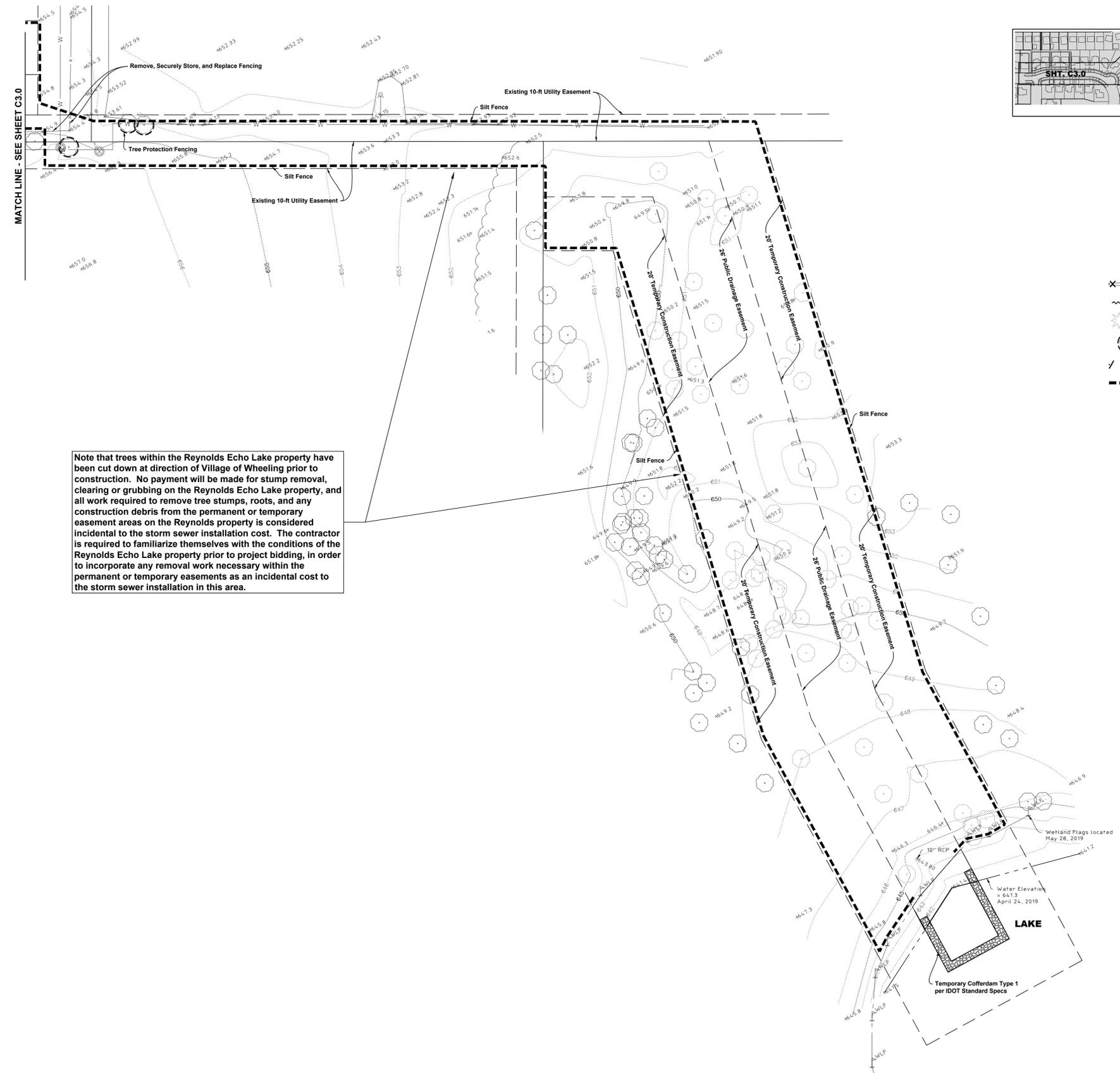
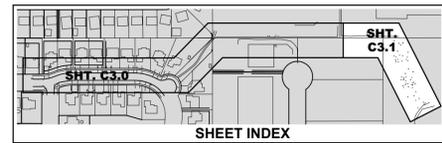
**EX. CONDITIONS, DEMOLITION,
& EROSION CONTROL PLAN**

**EASTCHESTER RELIEF STORM SEWER
CONSTRUCTION PLANS**
VILLAGE OF WHEELING, ILLINOIS

Project Manager: M.L.A.	Revision
Engineer: J.D.L.	Date
Date: 03.26.2020	No.
Project No. 18-253	
Sheet C3.0 / C5	



Scale: 1" = 20'



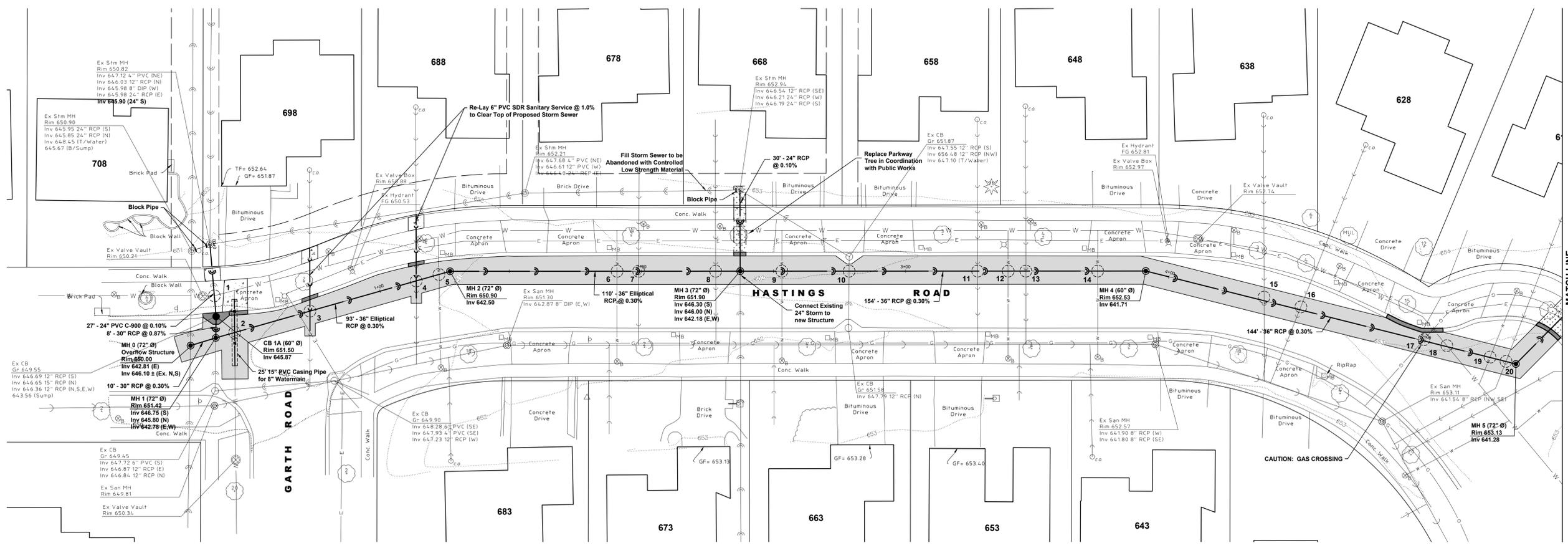
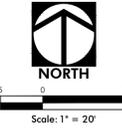
Note that trees within the Reynolds Echo Lake property have been cut down at direction of Village of Wheeling prior to construction. No payment will be made for stump removal, clearing or grubbing on the Reynolds Echo Lake property, and all work required to remove tree stumps, roots, and any construction debris from the permanent or temporary easement areas on the Reynolds property is considered incidental to the storm sewer installation cost. The contractor is required to familiarize themselves with the conditions of the Reynolds Echo Lake property prior to project bidding, in order to incorporate any removal work necessary within the permanent or temporary easements as an incidental cost to the storm sewer installation in this area.

- LEGEND**
- PAVEMENT REMOVAL
 - CURB REMOVAL
 - SAW CUT
 - TREE STUMPS TO BE REMOVED BY CONTRACTOR AS INCIDENTAL PROJECT COST
 - TREE PROTECTION
 - REMOVE PIPE
 - EROSION CONTROL / SILT FENCE

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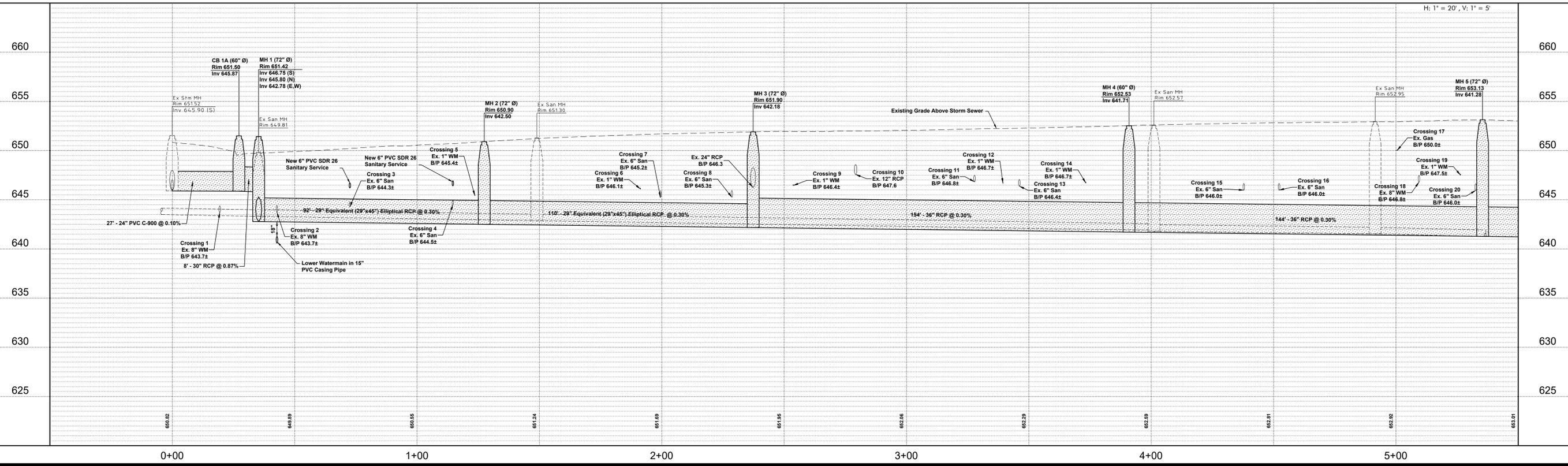
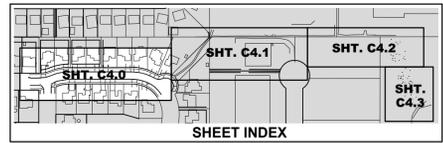
**EX. CONDITIONS, DEMOLITION,
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Project Manager: M L A
 Engineer: J D L
 Date: 03.26.2020
 Project No. 18-253
 Sheet **C3.1** / C5



LEGEND

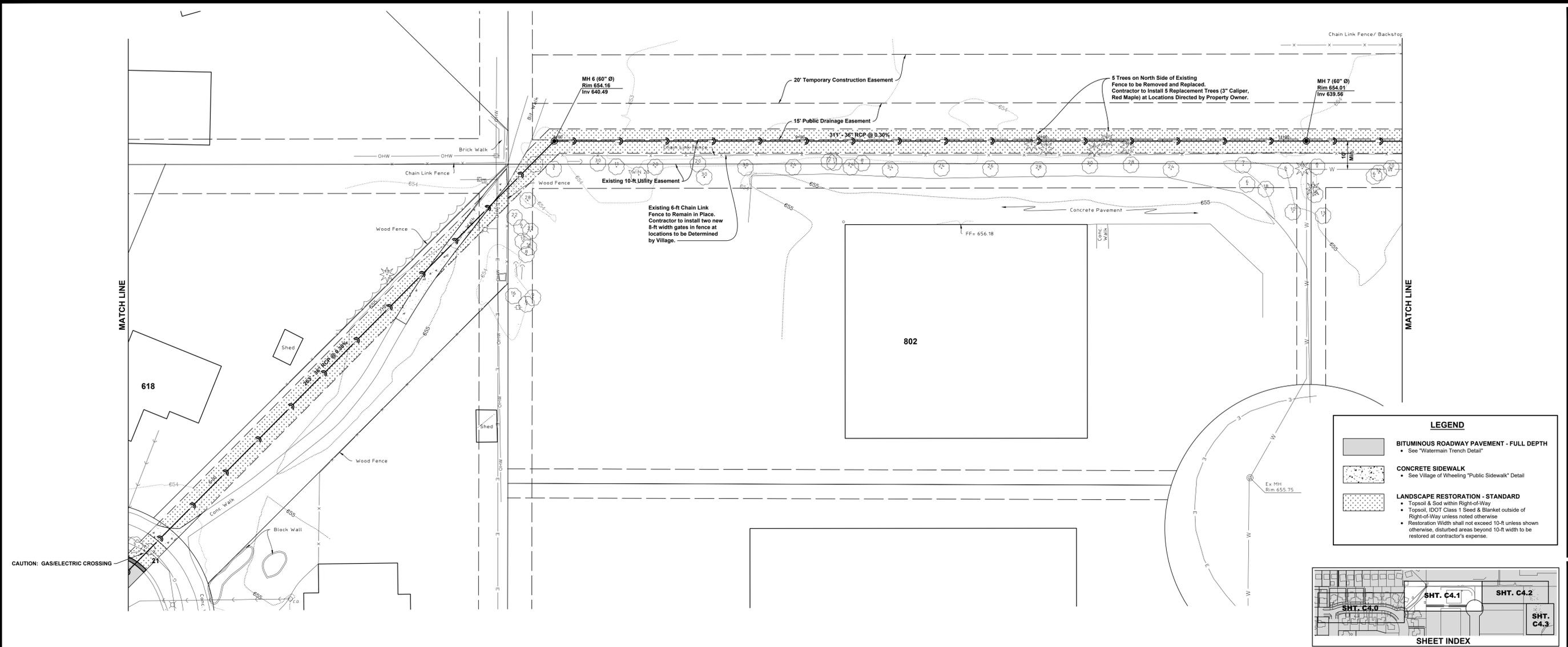
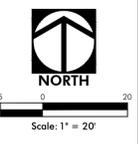
- BITUMINOUS ROADWAY PAVEMENT - FULL DEPTH**
 - See "Watermain Trench Detail"
- CONCRETE SIDEWALK**
 - See Village of Wheeling "Public Sidewalk" Detail
- LANDSCAPE RESTORATION - STANDARD**
 - Topsoil & Sod within Right-of-Way
 - Topsoil, IDOT Class 1 Seed & Blanket outside of Right-of-Way unless noted otherwise
 - Restoration Width shall not exceed 10-ft unless shown otherwise, disturbed areas beyond 10-ft width to be restored at contractor's expense.
- CURB & GUTTER TO BE REMOVED / REPLACED**



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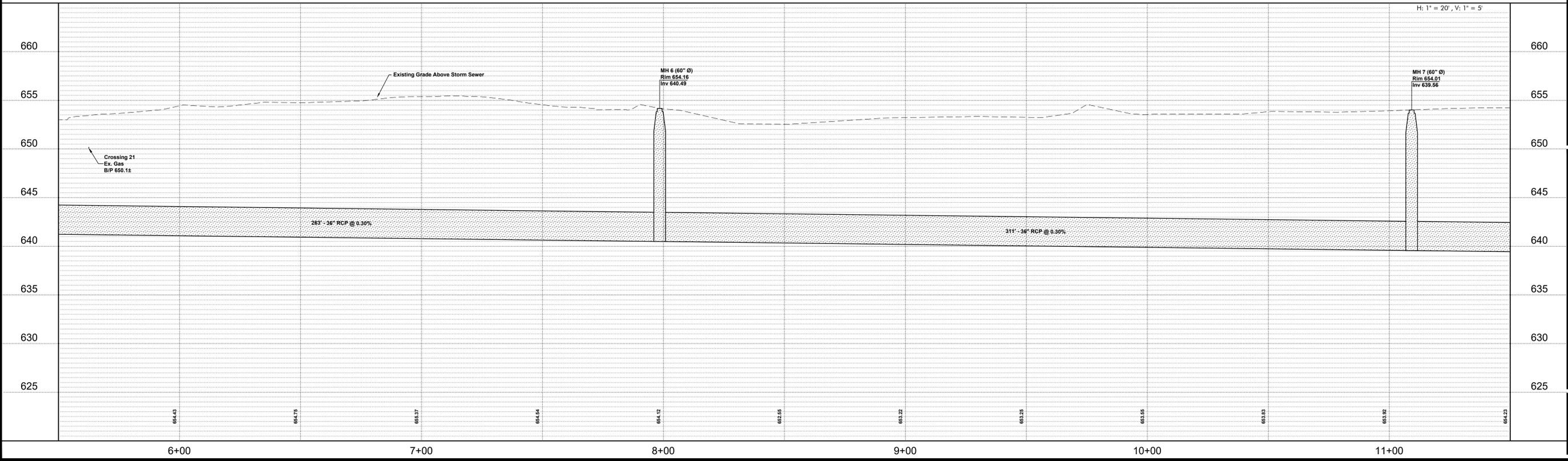
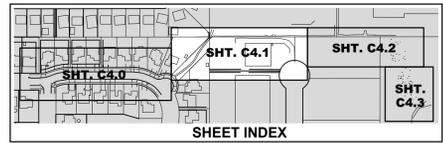
PLAN AND PROFILE
STA. 0+00 TO STA. 5+50
EASTCHESTER RELIEF STORM SEWER
CONSTRUCTION PLANS
 VILLAGE OF WHEELING, ILLINOIS

Project Manager: M L A
 Engineer: J D L
 Date: 03.26.2020
 Project No: 18-253
 Sheet: **C4.0** / C5



LEGEND

- BITUMINOUS ROADWAY PAVEMENT - FULL DEPTH
• See "Watermain Trench Detail"
- CONCRETE SIDEWALK
• See Village of Wheeling "Public Sidewalk" Detail
- LANDSCAPE RESTORATION - STANDARD
• Topsoil & Sod within Right-of-Way
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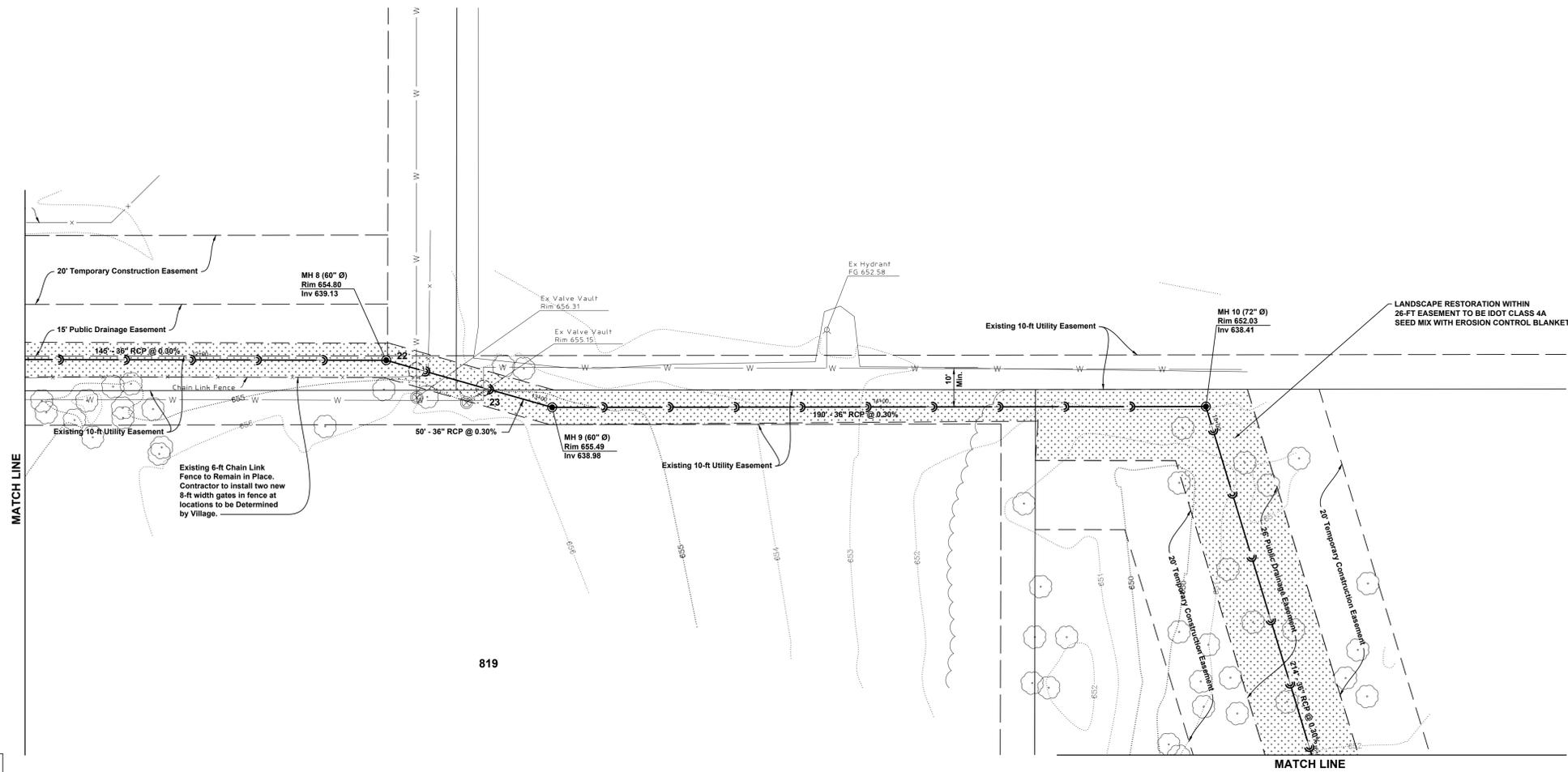
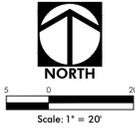


Revision
Date
No.

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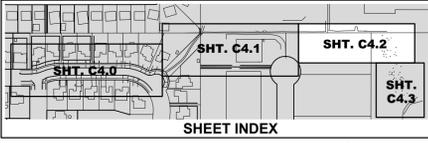
PLAN AND PROFILE
STA. 5+50 TO STA. 11+50
EASTCHESTER RELIEF STORM SEWER
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VILLAGE OF WHEELING, ILLINOIS

Project Manager: M L A
Engineer: J D L
Date: 03.26.2020
Project No: 18-253
Sheet: **C4.1** / C5



LEGEND

	BITUMINOUS ROADWAY PAVEMENT - FULL DEPTH • See "Watermain Trench Detail"
	CONCRETE SIDEWALK • See Village of Wheeling "Public Sidewalk" Detail
	LANDSCAPE RESTORATION - STANDARD • Topsoil & Sod within Right-of-Way • Topsoil, IDOT Class 1 Seed & Blanket outside of Right-of-Way unless noted otherwise • Restoration Width shall not exceed 10-ft unless shown otherwise, disturbed areas beyond 10-ft width to be restored at contractor's expense.

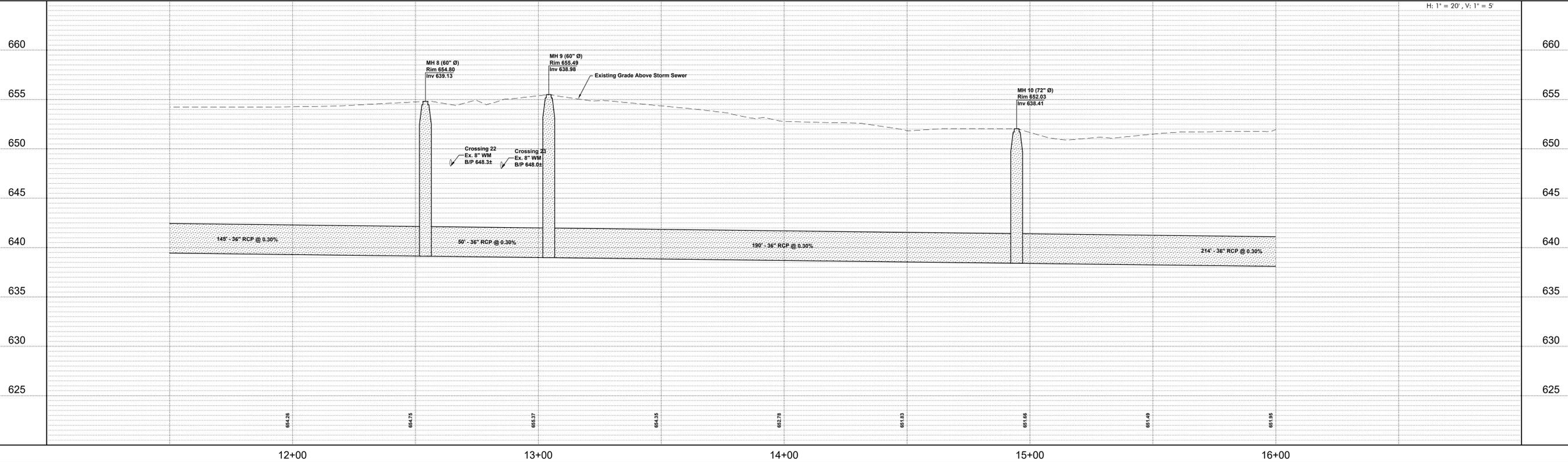


CROSSING TABLE

Crossing: 11
Bot of Storm: x
Top of Water: x
Crossing: 12
Bot of Storm: x
Top of Water: x

819

MATCH LINE



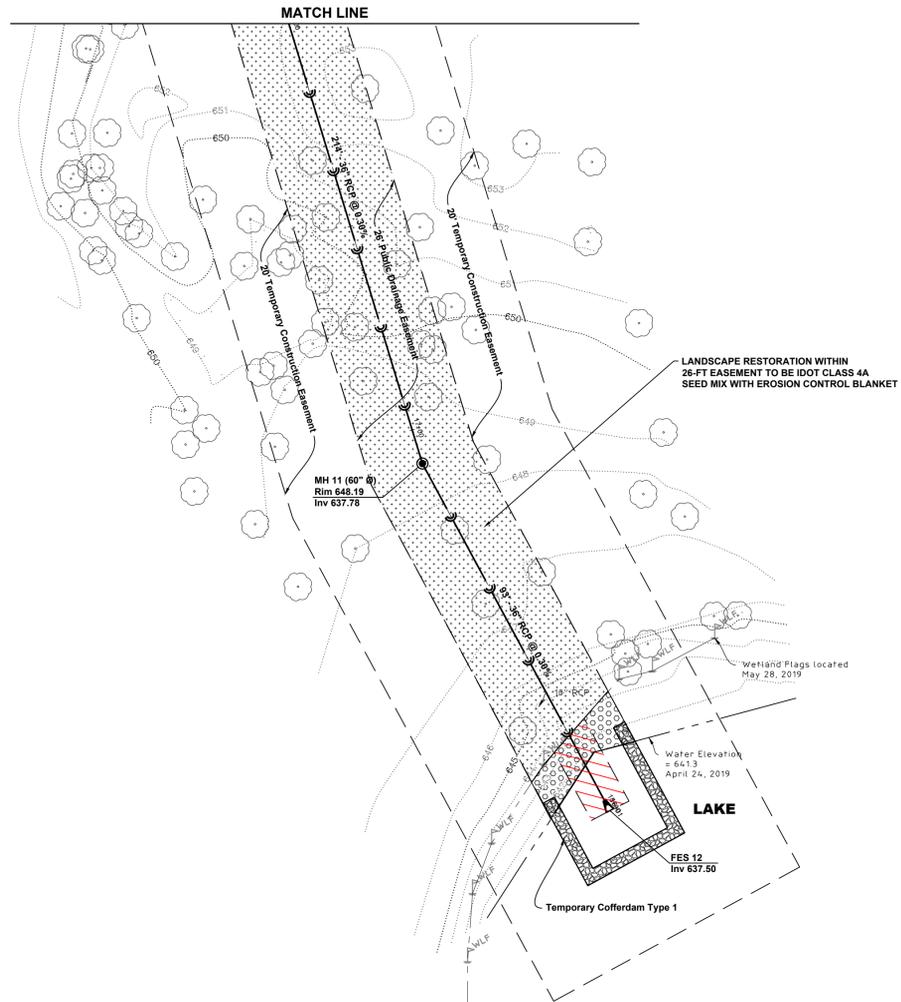
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consulting engineers • land surveyors
100 East State Parkway, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6698
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PLAN AND PROFILE
STA. 11+50 TO STA. 16+00
EASTCHESTER RELIEF STORM SEWER
CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

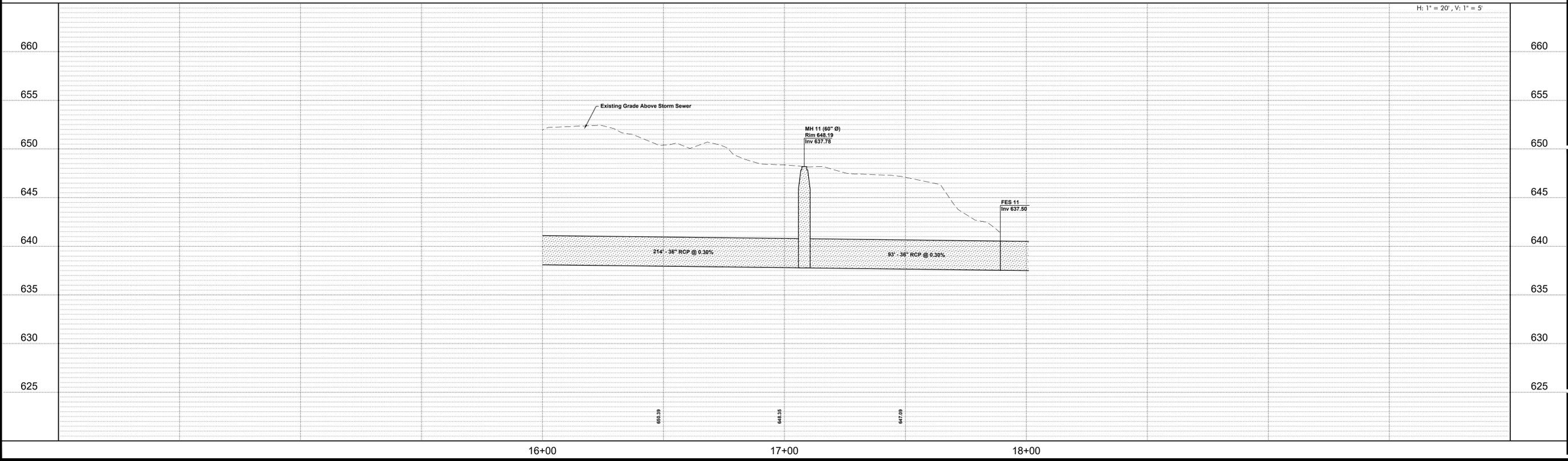
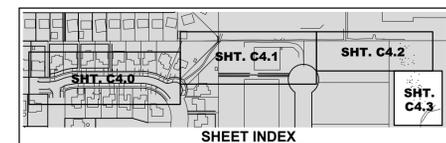
Project Manager: M L A
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Scale: 1" = 20'



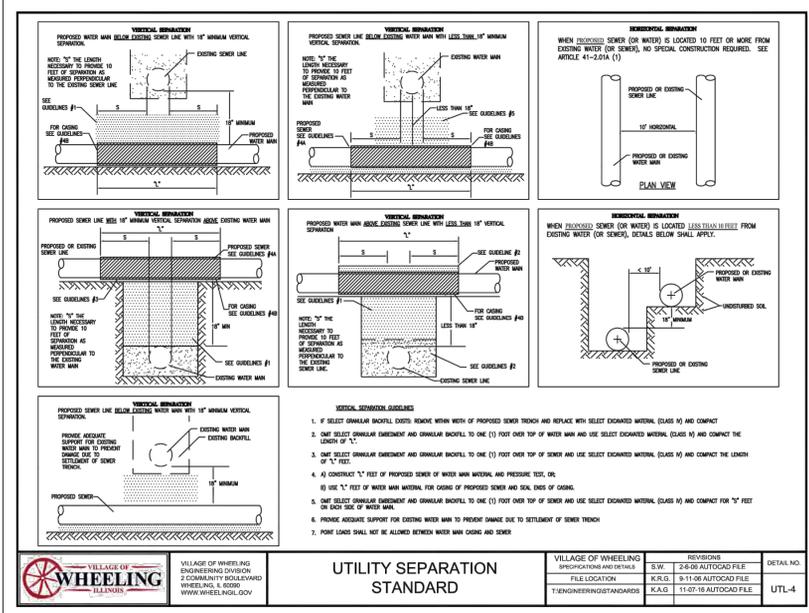
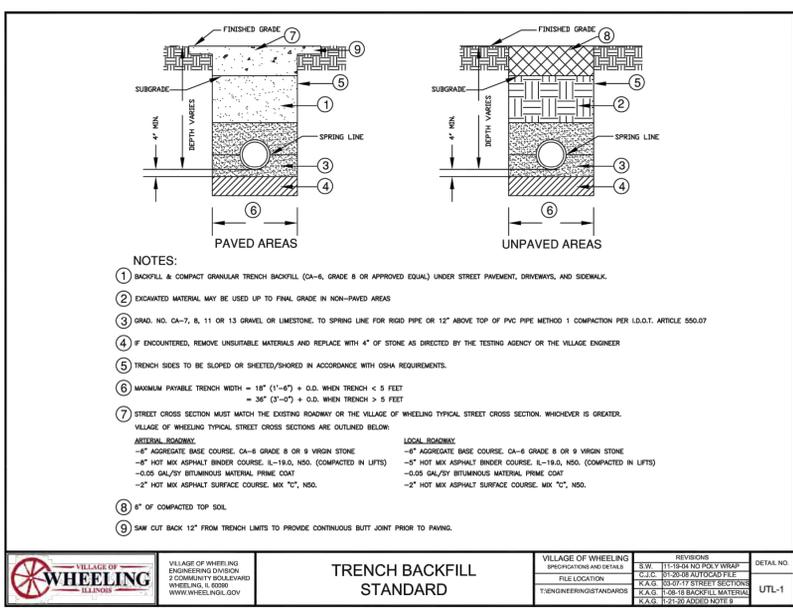
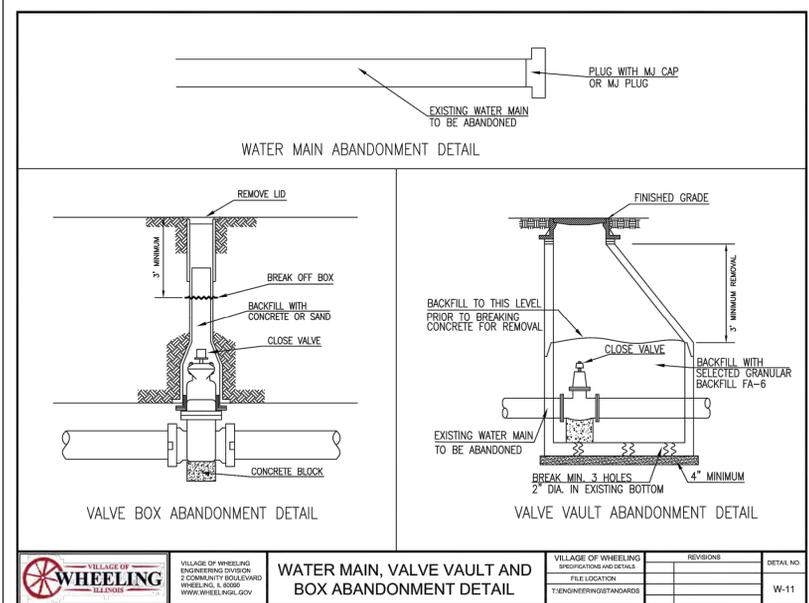
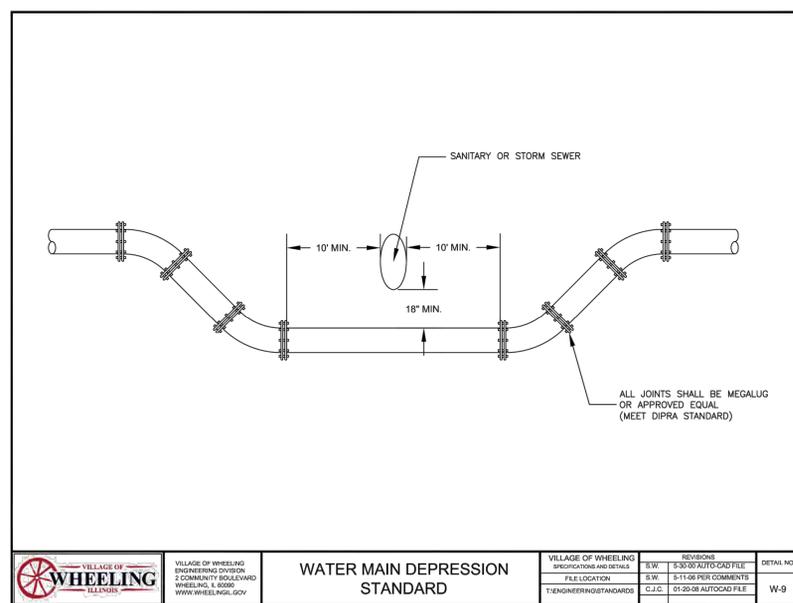
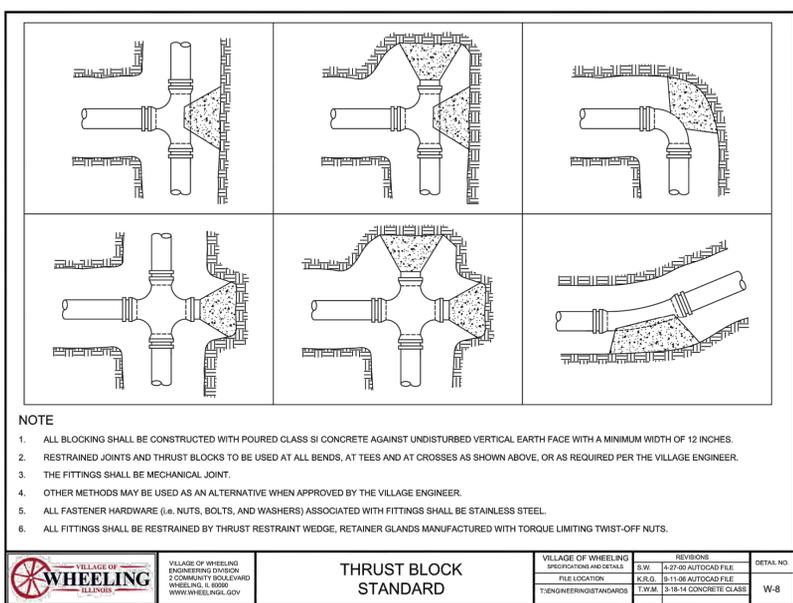
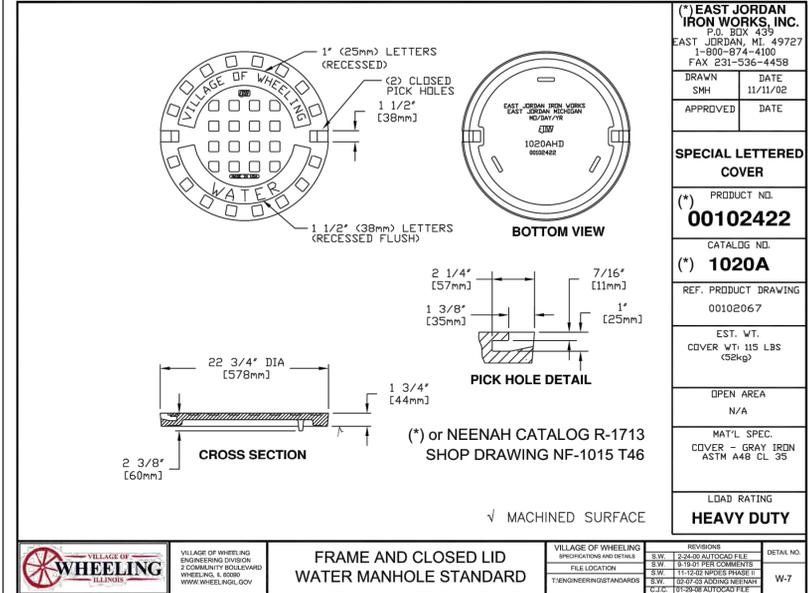
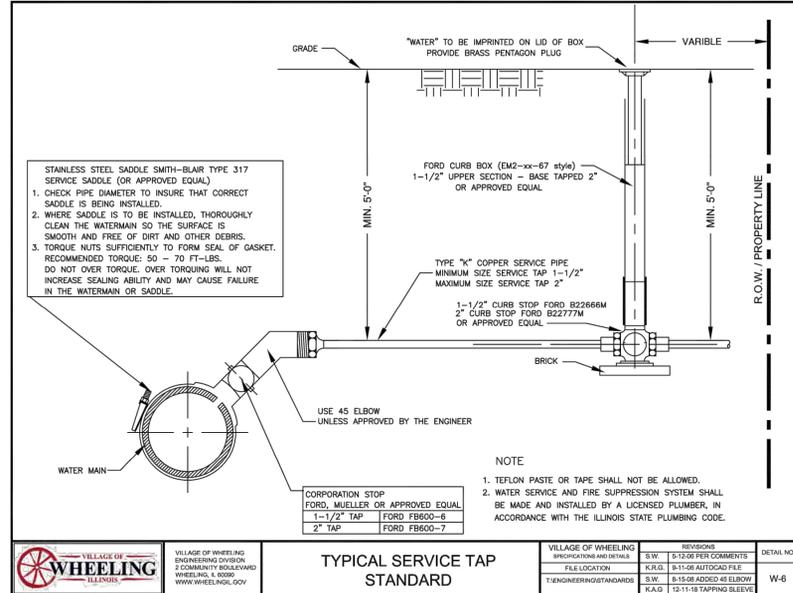
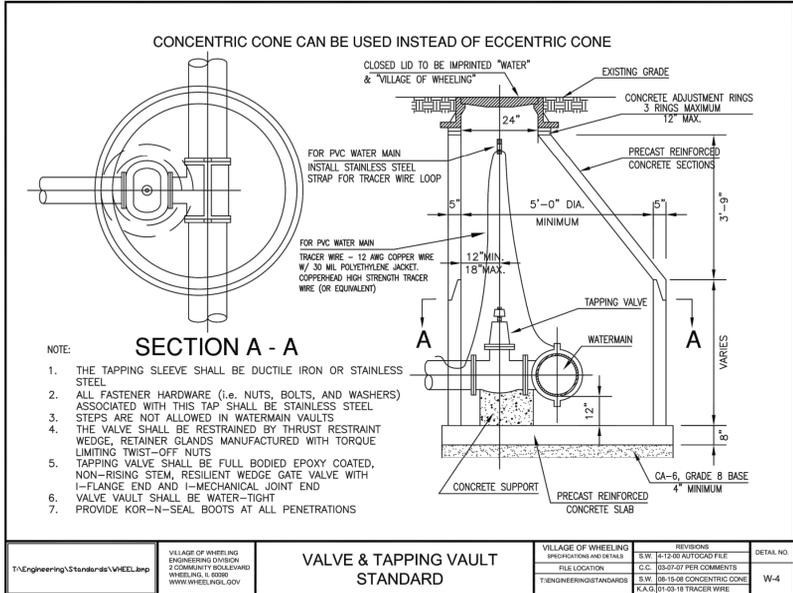
LEGEND	
	BITUMINOUS ROADWAY PAVEMENT - FULL DEPTH • See "Watermain Trench Detail"
	CONCRETE SIDEWALK • See Village of Wheeling "Public Sidewalk" Detail
	LANDSCAPE RESTORATION - STANDARD • Topsoil & Sod within Right-of-Way • Topsoil, IDOT Class 1 Seed & Blanket outside of Right-of-Way unless noted otherwise • Restoration Width shall not exceed 10-ft unless shown otherwise, disturbed areas beyond 10-ft width to be restored at contractor's expense.
	LANDSCAPE RESTORATION - NATIVE SEEDING • Restoration with Short Grass Prairie Mixture Seeding • Topsoil with Erosion Control Blanket
	WETLAND IMPACT AREA • Disturbed Area = 200 s.f. (0.005 ac.)



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PLAN AND PROFILE
STA. 16+00 TO STA. 18+00
EASTCHESTER RELIEF STORM SEWER
CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

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Sheet **C4.3** / C5



(*) EAST JORDAN IRON WORKS INC.
P.O. BOX 439
EAST JORDAN, MI 49727
1-800-874-4100
FAX 231-536-4458

DRAWN: SMH DATE: 11/11/02
APPROVED: DATE:

SPECIAL LETTERED COVER

PRODUCT NO.
00102422

CATALOG NO.
1020A

REF. PRODUCT DRAWING
00102067

EST. WT.
COVER WT: 115 LBS (52kg)

OPEN AREA
N/A

MAT'L SPEC.
COVER - GRAY IRON
ASTM A48 CL 35

LOAD RATING
HEAVY DUTY

NOTE:
RISERS TO BE CONSTRUCTED IN LIEU OF WYES WHERE SEWER DEPTH EXCEEDS 10'-0".
FOR A DEPTH OF 10 FEET OR GREATER, THE SERVICES SHALL BE CONSTRUCTED WITH DUCTILE IRON PIPE (D.I.P.).
WHERE A SEWER MAIN IS 15 FEET OR GREATER, THE CONTRACTOR SHALL FURNISH A D.I.P. CONNECTION WITH ADAPTER FOR THE PLASTIC SEWER MAIN.

SECTION A - A
45° CURVE WITH STOPPER CEMENTED IN PLACE
UNDISTURBED EARTH SHAPED TO PROVIDE UNIFORM BEARING FOR 1/4 OF BARREL CIRCUMFERENCE.
MAXIMUM SLOPE 1:1
WYE FOR PLASTIC PIPE/STANDARD TEE FOR D.I.P. - BARREL SIZE TO BE AS SHOWN ON PLANS
CA-6 GRANULAR BACKFILL

VILLAGE OF WHEELING	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMPANY BOULEVARD WHEELING, IL 60090 WWW.WHEELING.IL.GOV	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	S.W.	9-8-20 AUTOCAD FILE	REVISIONS	DETAIL NO.
		FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE		SAN-5
		T:ENGINEERING@STANDARDS				

TYPICAL CURB BOX INLET FILTER
TYPICAL FLAT/RECTANGULAR/ROLLED CURB INLET FILTER
TYPICAL ROUND INLET FILTER

INSTALLATION:
1. REMOVE TRAFFIC FROM WORK AREA.
2. PREP FLEXSTORM INLET FILTER INTO LOW BENCH OF 2" CATCHING OR CONCRETE STRUCTURE.
3. REPLACE TRAFFIC.

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		FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE		ERO-1
		T:ENGINEERING@STANDARDS				

LEGEND
① SUB-BASE GRANULAR MATERIAL
② EXISTING PAVEMENT
③ EXISTING STRUCTURE
④ FRAME AND LID (SEE NOTES)
⑤ CLASS SI CONCRETE
⑥ PROPOSED HMA SURFACE COURSE
⑦ PROPOSED HMA BINDER COURSE
⑧ PROPOSED MORTAR, STEEL SHIMS & ADJUSTING RINGS 1/2" MAXIMUM
⑨ FULL DEPTH SAW CUT

NOTES:
EXISTING FRAMES AND LIDS SHALL BE REMOVED AND RETURNED TO THE VILLAGE OF WHEELING BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.
VILLAGE OF WHEELING CASTINGS ARE THE PROPERTY OF THE VILLAGE AND THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF REMOVAL AND DISPOSITION OF THE CASTINGS.
INSTALLATION OF NEW OR ADJUSTMENTS TO EXISTING FRAMES & LIDS WILL NOT BE PAID FOR SEPARATELY BUT ARE INCLUDED AS PART OF THE COST PER EACH ARE INCLUDED AS PART OF THE COST PER EACH ADJUSTMENT.

CONSTRUCTION PROCEDURES
STAGE 1 (AFTER PAVEMENT MILLING AND PLACEMENT OF HMA BINDER)
A) FULL DEPTH SAW CUT 5' X 5' SQUARE OR DIAMOND AROUND CENTER OF FRAME TO BE ADJUSTED.
B) REMOVE FRAME, EXISTING PAVEMENT AND AGGREGATE MATERIAL TO A DEPTH OF 2" BELOW TOP OF MANHOLE STRUCTURE OR 2" BELOW BOTTOM OF LOWEST ADJUSTMENT RING.
C) ADJUST NEW FRAME TO MATCH PROPOSED HMA PAVEMENT SURFACE GRADE USING MORTAR, STEEL SHIMS EMBEDDED IN MORTAR, AND PRECAST CONCRETE ADJUSTING RINGS.
D) COMPACT EXISTING AGGREGATE STONE BASE.
E) FILL 5' X 5' SURROUNDING SPACE WITH DOT APPROVED CLASS SI CONCRETE TO THE SAME ELEVATION OF THE TOP OF THE BINDER COURSE.
F) PAVE SURFACE COURSE OVER 5' X 5' CONCRETE COLLAR.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

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6" SANITARY SEWER SERVICE LINE REPAIR DETAIL

EXISTING 4" SAN SEWER SERVICE LINE
EXISTING 6" SAN SEWER SERVICE LINE
WATER MAIN
NON-SHEAR COUPLING
6" PLASTIC C-900
CA-6 TRENCH BACKFILL
ASPHALT PAVEMENT
3" (TYPICAL)

VILLAGE OF WHEELING	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMPANY BOULEVARD WHEELING, IL 60090 WWW.WHEELING.IL.GOV	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	S.W.	07-20-03 AUTOCAD FILE	REVISIONS	DETAIL NO.
		FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE		SAN-7
		T:ENGINEERING@STANDARDS				

CATCH BASIN (TYPE A)
12" MAX. 3 ADJUSTING RINGS (MAX.)
2'-0" MIN.
4'-0" MIN.
MIN. 4'-0" DIAMETER
PRECAST REINFORCED CONCRETE
GRANULAR CA-6 BASE
24" SLUMP UNLESS OTHERWISE SPECIFIED

RESTRICTOR CLEANOUT DETAIL
FINISH EXISTING GRADE
REMOVABLE CLEANOUT CAP
CAST IRON CLEANOUT
STORM SEWER OUTLET, 12" MIN.
CEMENT MORTAR GROUT
RESTRICTOR PIPE (WYE) GROUDED IN PLACE SIZE AS SHOWN ON PLAN

NOTE:
1. STORM SEWER PIPES IN PUBLIC RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE AS PER SECTION 550 OF THE I.D.O.T. STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
2. STORM SEWER ON PRIVATE PROPERTY MAY BE PVC SDR-26, DUCTILE IRON, OR RCCP.
3. ALL OTHER PIPE MATERIAL MUST BE APPROVED BY THE VILLAGE ENGINEER.
4. JOINTS FOR RCCP SHALL BE PREFORMED, FLEXIBLE, O-RING GASKET TYPE OR TYLOX SUPER SEAL GASKET (ASTM C-361).
5. MINIMUM STORM SEWER PIPE DIAMETER IS 12" UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER.

VILLAGE OF WHEELING	VILLAGE OF WHEELING ENGINEERING DIVISION 2 COMPANY BOULEVARD WHEELING, IL 60090 WWW.WHEELING.IL.GOV	VILLAGE OF WHEELING SPECIFICATIONS AND DETAILS	S.W.	2-20-02 AUTOCAD FILE	REVISIONS	DETAIL NO.
		FILE LOCATION	C.J.C.	11-27-07 PER COMMENTS		ST-2
		T:ENGINEERING@STANDARDS				

PLAN
24" DIA.
24-3/4" DIA.
24-1/2" DIA.
2" MIN.
1-3/4" MIN.

SECTION A-A
24-3/4" DIA. (578mm)
2 1/2" [64mm]
2 1/2" [64mm]
2 3/8" [60mm]
2 3/8" [60mm]
1 3/4" [44mm]

BOTTOM VIEW
RAISED TROUT
3/8" RAISED LETTERING
OPEN PICK HOLE

NOTE:
FURNISH HEAVY DUTY CASTING AS REQUIRED BY THE VILLAGE ENGINEER
(*) OR NEENAH CATALOG R-2015 SHOP DRAWING NF-2015 T17

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		FILE LOCATION	C.J.C.	11-27-07 AUTOCAD FILE		ST-6
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COMMERCIAL DRIVEWAY
SEE V.O.W. PUBLIC SIDEWALK & SIDEWALK RAMP STANDARD

DRIVEWAY STANDARD

8" x 6" x 6 GA. W.W.F. (DRIVEWAY & PAVEMENT, NOT IN APRON)
8" CONCRETE (1) 6 BAG MIX (4000 PSI)
4" COMPACTED CRUSHED LESTONE (CA-6, GRADE 8 OR GRADE 9, VIRGIN)
4" COMPACTED CRUSHED LESTONE (CA-6, GRADE 8 OR GRADE 9, VIRGIN)
2" x 6" WOOD FORM

CONCRETE
6" CONCRETE (4000 PSI)
3" COMPACTED CRUSHED LESTONE (CA-6, GRADE 8 OR GRADE 9, VIRGIN)
4" COMPACTED CRUSHED LESTONE (CA-6, GRADE 8 OR GRADE 9, VIRGIN)

ASPHALT
8" COMPACTED CRUSHED LESTONE (CA-6, GRADE 8 OR GRADE 9, VIRGIN)
2-1/2" ASPHALT COMPACTED TO 2"
8" COMPACTED CRUSHED LESTONE (CA-6, GRADE 8 OR GRADE 9, VIRGIN)

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		T:ENGINEERING@STANDARDS				

PUBLIC SIDEWALK STANDARD

COMBINATION CURB & GUTTER TYPE B-6.12
COMBINATION CURB & GUTTER TYPE M-3.12
DEPRESSED CURB (TYPE B)
BARRIER CURB (TYPE B)

NOTE:
① PAVEMENT DEPTH OR 9" MIN.
② TO BE CENTERED OR SET AS REQUIRED IN FIELD.
③ 1/2" DIA. STEEL BAR AT 2'-6" CENTERED WHEN PAVEMENT IS CONCRETE. OMIT WHEN ADJACENT PAVEMENT IS FLEXIBLE.
④ 5/8" DIA. STEEL REBAR CONTINUOUS (TYPICAL).
PROVIDE DEPRESSED CURBS AT DRIVEWAYS, CROSSWALKS, AND SIDEWALKS, ETC.
ALL CONCRETE SHALL HAVE 4,000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.
ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 606 UNLESS OTHERWISE NOTED HEREIN.
*FOR 9" CURB, THESE SHALL BE 2" x 5".

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		FILE LOCATION	C.A.G.	11-21-16 AUTOCAD FILE		R-12
		T:ENGINEERING@STANDARDS				

SIDEWALK RAMP
Ramp Width 5'-0" min.
Grass
BRICK RED TRUNCATED DOME DETECTABLE WARNINGS 24" x 60"
18" Side Flare
5'-0" min. (SEE NOTE 6)
18" Side Flare

PUBLIC SIDEWALK
Existing/Proposed Grade
R.O.W. Line
1'-0" MIN.
5'-0" VARIES
1/4" PER FT. (SLOPE)
D = 5' MIN. (SEE NOTE 5)
Compacted Stone Base CA-6, (Grade 8 or Grade 9)
Note: No crushed concrete will be allowed.

NOTE:
1. TO BE FORMED WITH 2" x 6" BOARDS OR 5/8" WIDE STEEL FORMS.
2. TOOLED JOINTS SHALL BE 1/2" AT 9' CENTERS.
3. EXPANSION JOINTS SHALL BE 3/4" THICK x 5" WIDE BITUMINOUS IMPREGNATED FIBREBOARD AT 9' CENTERS, AT DRIVEWAYS AND OTHER CONCRETE JOINTS.
4. PROVIDE BROOM FINISH EXCEPT AT TRUNCATED DOME.
5. D = 6" AT RESIDENTIAL DRIVEWAY
D = 8" AT COMMERCIAL/INDUSTRIAL DRIVEWAYS
6. SIDEWALK RAMP AT DRIVEWAYS SHALL BE BUILT PER THE VILLAGE STANDARD.
7. THE CONCRETE SHALL BE 4 BAG MIX AND SHALL NOT CONTAIN CHLORIDE OR FLY ASH. THE COMPRESSIVE STRENGTH SHALL MEET OR EXCEED I.D.O.T.'S REQUIREMENTS FOR 12" CONCRETE (MINIMUM 3000 PSI @ 14 DAYS).
8. PROVIDE DEPRESSED CURBS AT ALL WALKS, MINIMUM WIDTH ON DEPRESSION.
9. ALL SIDEWALKS, CURB/GUTTER AND PAVEMENT TO BE SAW-CUT AS REQUIRED.
10. MAXIMUM SLOPE OF RAMP NOT TO EXCEED 8%.
11. DRIVEWAY APRON REMOVAL & REPLACEMENT SHALL INCLUDE THE INSTALLATION OF A TRUNCATED DOME HANDICAPPED SIDEWALK RAMP ON BOTH SIDES OF THE APRON UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER.
12. TRUNCATED DOME CONSTRUCTION FOR DETECTABLE WARNINGS SHALL BE ARMOR-TILE TACTILE SYSTEMS FEDERAL #22144 OR T19 TILE DETECTABLE WARNING TILES, BRICK RED AND SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE I.D.O.T. STANDARDS. NO SURFACE MOUNT PANELS ALLOWED.

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		FILE LOCATION	C.J.C.	08-28-16 AS PER I.R.G.		R-3
		T:ENGINEERING@STANDARDS				

CURB AND GUTTER STANDARD

COMBINATION CURB & GUTTER TYPE B-6.12
COMBINATION CURB & GUTTER TYPE M-3.12
DEPRESSED CURB (TYPE B)
BARRIER CURB (TYPE B)

NOTE:
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		T:ENGINEERING@STANDARDS				

CURB WEDGE AREA BACKFILL DETAIL

EXISTING HMA BINDER TO REMAIN
PROPOSED HMA SURFACE (INSTALLED AFTER CURB WEDGE AREA BACKFILL)
NEW CURB & GUTTER
EXISTING AGGREGATE BASE COURSE TO REMAIN
PORTLAND CEMENT CONCRETE TO BE POURED INTO WEDGE AREA.

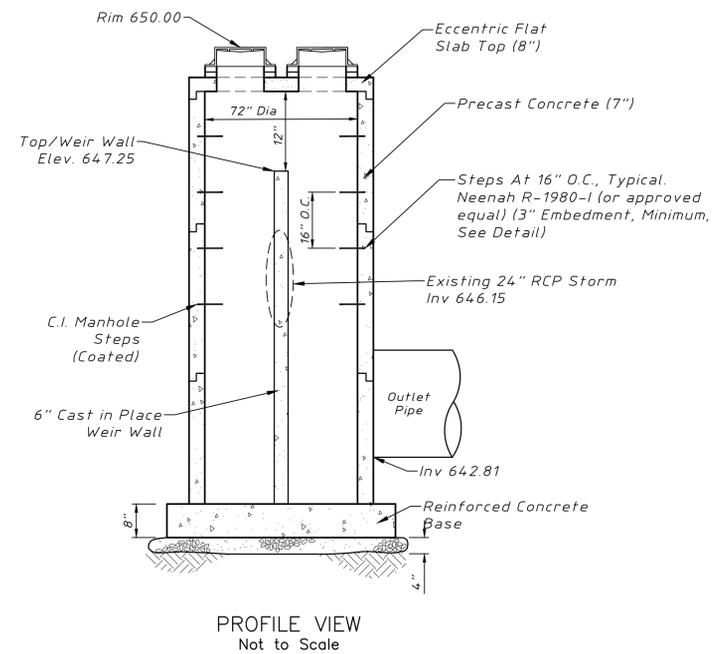
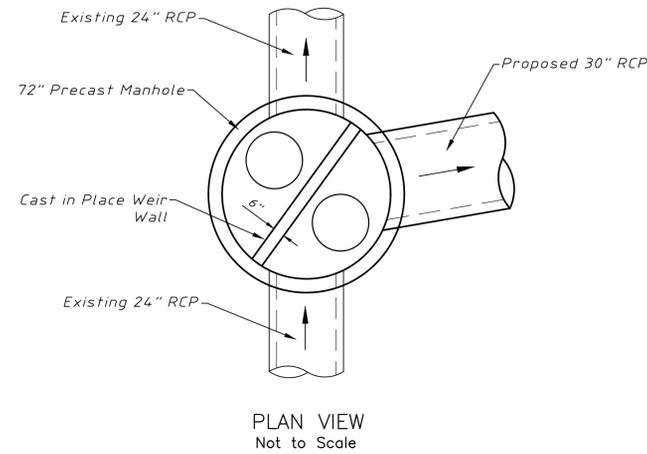
NOTE:
1. THIS WORK SHALL ONLY BE PROVIDED IN AREAS WHERE EXISTING BITUMINOUS PAVEMENT (SURFACE, BINDER, OR BASE) IS TO REMAIN ADJACENT TO A LOCATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT.
2. "GAP" OR "WEDGE" AREA WILL OCCUR BETWEEN EXISTING EDGE OF PAVEMENT AND NEW GUTTER FLAG.
3. PORTLAND CEMENT CONCRETE SHALL BE POURED WITHIN THE "WEDGE" AREA UP TO THE TOP OF THE FINAL DESIGN BINDER COURSE ELEVATION THAT WILL ALLOW FOR UNIFORM PLACEMENT OF 2" HMA SURFACE COURSE.

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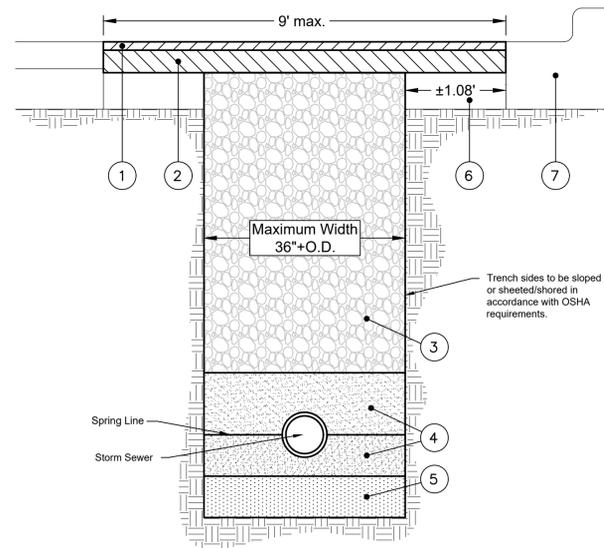
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STANDARD DETAILS
EASTCHESTER RELIEF STORM SEWER CONSTRUCTION PLANS
VILLAGE OF WHEELING, ILLINOIS

Project Manager: M.L.A.
Engineer: J.D.L.
Date: 03.26.2020
Project No: 18-253
Sheet: C5.1



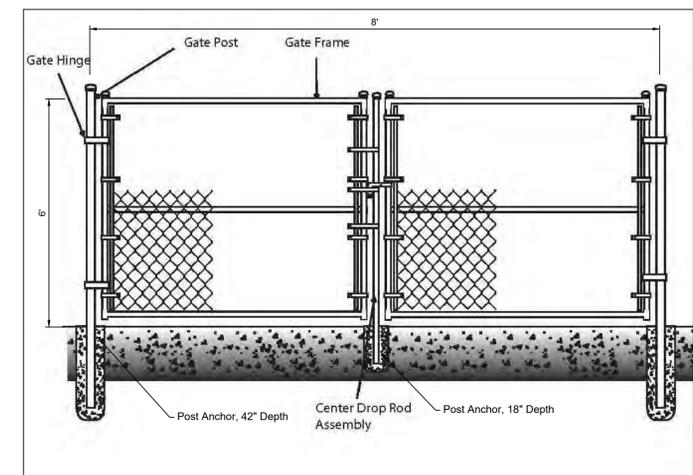
OVERFLOW STRUCTURE DETAIL (MH 0)



- ① 2" Hot-Mix Asphalt (HMA) Surface Course, Mix 'D', N50
- ② 3" Hot-Mix Asphalt (HMA) Binder Course, Mix 'D', IL-19.0, N50
- ③ Compacted Trench Backfill (CA-6, Grade 8 or approved equal). Also required under sidewalks, driveways, curb & gutter, or other paved areas. (Incidental to cost of "Water Main - #-inch Dia.")
- ④ CA-7, CA-8, CA-11 or CA-13 gravel or limestone to spring line for rigid pipe or 12" above top of pipe. Requires Method 1 compaction per IDOT Article 550.07. (Incidental to cost of Storm Sewer).
- ⑤ If encountered, remove unsuitable materials and replace with 4" of stone as directed by the Village Engineer. (See Bid Item for 'Removal and Disposal of Unsuitable Material')
- ⑥ Existing aggregate base course to be recompacted
- ⑦ Existing curb & gutter to remain. (Removal & Replacement per the Village Engineer)

STORM SEWER TRENCH (ROADWAY)
TYPICAL SECTION

NOTE: The removal and disposal of uncontaminated trench spoils shall be incidental to the cost of the Storm Sewer.



CHAIN LINK FENCE 8-FT GATE DETAIL

NOTE: Contractor shall submit cut-sheet for gate configuration and manufacturer for Village approval prior to ordering.