

TIMBER RIDGE SCHOOL ADDITION & RENOVATION

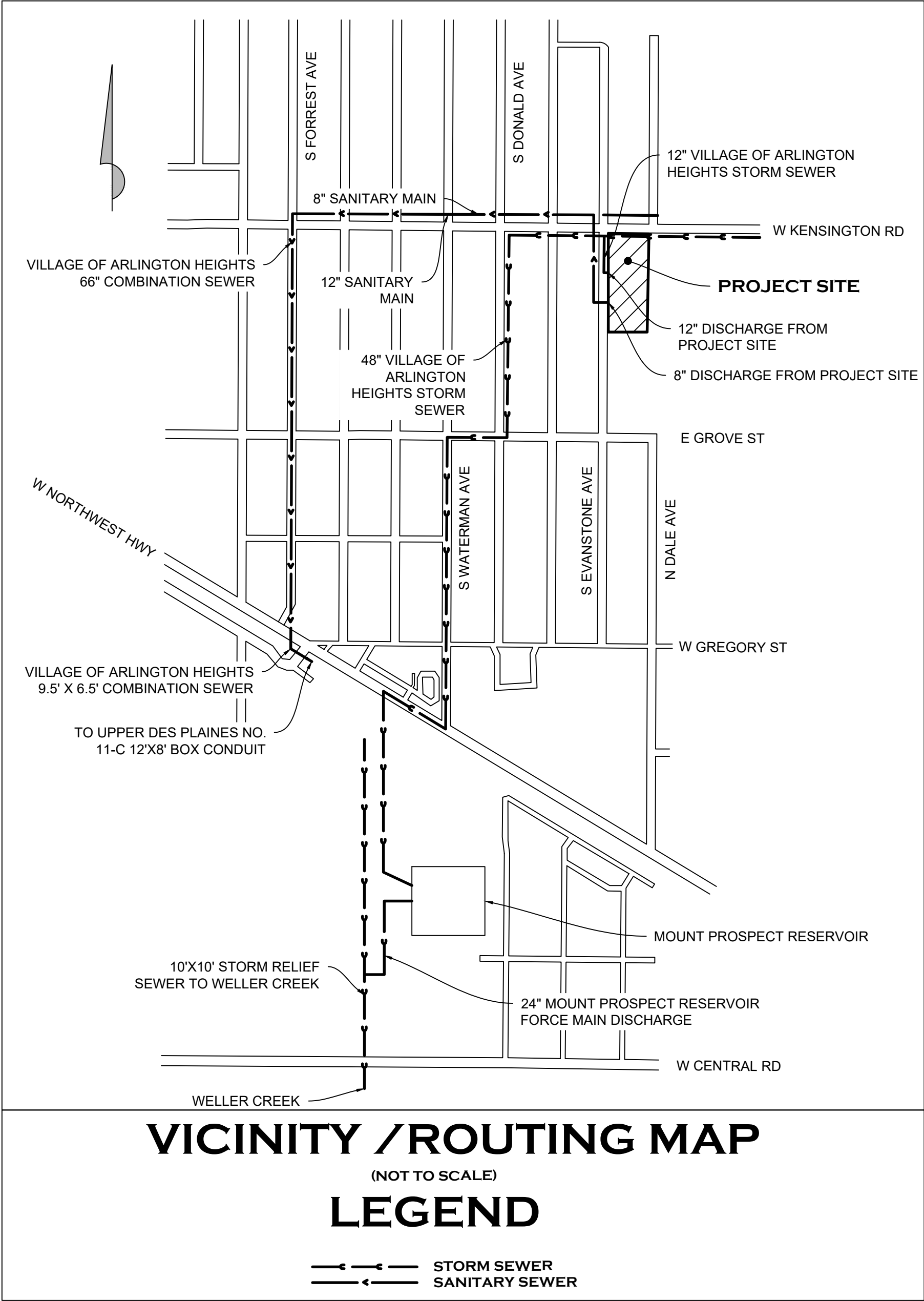
NSSEO

FINAL ENGINEERING PLANS

201 S. EVANSTON AVENUE, ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS

MASTER NOTES

1. ALL ITEMS OF THIS PROJECT SHALL BE GOVERNED BY SPECIFICATIONS INCLUDED IN THE DOCUMENTS LISTED BELOW:
- A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED BY SAID DEPARTMENT (LATEST REVISION) AND HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS".
- B. "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- C. "ILLINOIS URBAN MANUAL" (LATEST REVISION) BY ASSOCIATION OF ILLINOIS SOIL & WATER CONSERVATION DISTRICTS.
- D. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", BY ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
- E. "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS" BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
- F. "ILLINOIS ACCESSIBILITY CODE", (LATEST EDITION).
- G. "WATERSHED MANAGEMENT ORDINANCE" (LATEST EDITION), BY MWRDGC.
- H. "A MANUAL OF PRACTICE FOR DESIGN OF PUBLIC AND PRIVATE IMPROVEMENTS" (LATEST EDITION) BY VILLAGE OF ARLINGTON HEIGHTS PUBLIC WORKS ENGINEERING DIVISION.
- *LATEST REVISION IN EFFECT AT THE DATE ON THESE PLANS
2. PRIOR TO BID, THE CONTRACTOR SHALL VERIFY CONFORMANCE BETWEEN PLANS AND THE ABOVE REFERENCED CODES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BID.
3. IN THE EVENT OF A CONFLICT BETWEEN THESE VARIOUS STANDARDS, MUNICIPAL STANDARDS SHALL APPLY.
4. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 107 OF THE STANDARD SPECIFICATIONS.
5. ALL WORK PERFORMED SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF OSHA.
6. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING JULIE 1-800-892-0123 AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS. ALL UTILITIES MUST BE STAKED/LOCATED BEFORE CONSTRUCTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE MUNICIPALITY PUBLIC WORKS DEPARTMENT 847.368.5800 A MINIMUM OF 48 HOURS BEFORE CONSTRUCTION ACTIVITIES. A 48-HOUR NOTICE MUST BE PROVIDED FOR INSPECTIONS AND TESTS. VILLAGE STAFF MUST OPERATE ALL WATERMAIN VALVES AND HYDRANTS ONLY.
8. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL SURVEYING MONUMENTS UNTIL THE OWNER, THEIR AGENT OR A LICENSED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
9. THE CONTRACTOR SHALL BE AWARE OF POTENTIAL CONFLICTS WITH EXISTING UTILITIES AS MAY BE INDICATED ON THE PLANS. THESE AREAS SHALL BE EXCAVATED TO DETERMINE ELEVATIONS BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
10. SAWING OF REMOVAL ITEMS AS NOTED IN THE PLANS OR AS REQUIRED BY THE ENGINEER SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT OF THE ITEM BEING REMOVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.
11. ALL ROAD SIGNS, STREET SIGNS AND TRAFFIC SIGNS WHICH NEED TO BE RELOCATED OR MOVED DUE TO CONSTRUCTION SHALL BE TAKEN DOWN AND STORED BY THE CONTRACTOR AT HIS OWN EXPENSE EXCEPT THOSE WHICH THE PERMIT AGENCY SHALL REQUIRE TO BE TEMPORARILY RESET UNTIL COMPLETION OF CONSTRUCTION OPERATIONS. AFTER COMPLETION OF THE WORK, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESET ALL SAID SIGNS AT THE LOCATIONS DESIGNATED BY THE PERMIT AGENCY ENGINEER.
12. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE OWNER'S ENGINEER AT A COST TO BE BORNE BY THE CONTRACTOR THAT DESTROYED THE STAKES.
13. CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED OR MODIFIED. ANY DAMAGE DONE TO THESE ITEMS BY CONTRACTORS OPERATIONS SHALL BE REPAIRED AND/OR RESTORED BY THE CONTRACTOR AT THE CONTRACTORS OWN EXPENSE. CONTRACTOR SHALL RECORD THE CONDITION OF THE EXISTING WALKWAYS FRONTING THE SITE PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE OR INADEQUATE DRAINAGE SHALL BE REPLACED PRIOR TO THE COMPLETION OF THE PROJECT.
14. THE CONTRACTOR SHALL INDEMNIFY AND SAVE HARMLESS THE OWNER, THE PERMIT AGENCY AND ITS OFFICERS, EMPLOYEES, AND AGENTS, AND THE OWNER'S ENGINEERS, FROM AND AGAINST ALL LOSSES, CLAIMS, DEMANDS, PAYMENTS, SUITS, ACTIONS, RECOVERIES AND JUDGMENT OF EVERY NATURE AND DESCRIPTION BROUGHT OR RECOVERED AGAINST THEM, BY REASON OF ANY ACT OR OMISSION OF SAID CONTRACTOR, HIS AGENTS OR EMPLOYEES, IN THE EXECUTION OF THE WORK OR IN THE GUARDING OF IT.
15. BURNING ON THE SITE IS NOT PERMITTED.



VICINITY /ROUTING MAP

(NOT TO SCALE)

LEGEND

STORM SEWER
SANITARY SEWER

SYMBOL LEGEND

PROPOSED		EXISTING
---	PROPERTY LINE	---
---	BUILDING SETBACK LINE	---
---	EASEMENT LINE	---
---	DEPRESSED CURB	---
---	STORM SEWER	---
---	SANITARY SEWER	---
---	WATER MAIN	---
---	GAS LINE	---
---	ELECTRIC LINE	---
---	TELEPHONE LINE	---
---	OVERHEAD WIRES	---
---	FENCE LINE	---
---	SILT FENCE	---
---	GRADING CONTOUR	---
---	MANHOLE	---
---	STORM CURB FRAME & GRATE	---
---	STORM MANHOLE	---
---	STORM CATCH BASIN	---
---	STORM FLARED END SECTION	---
---	SANITARY MANHOLE	---
---	VALVE VAULT	---
---	FIRE HYDRANT	---
---	BUFFALO BOX	---
---	GAS VALVE	---
---	ELECTRIC STRUCTURE	---
---	TRANSFORMER	---
---	POWER POLE	---
---	PEDESTAL	---
---	TRAFFIC SIGNAL	---
---	MANHOLE	---
---	DRAINAGE FLOW	---
---	ARROW	---
---	OVERFLOW ROUTE	---
---	AIR CONDITIONER	---
---	SINGLE POLE SIGN	---
---	DOUBLE POLE SIGN	---
---	STREET LIGHT	---
---	BOLLARD	---
---	CLEAN OUT	---
---	DOWN SPOUT	---
---	TREE	---

---	EROSION CONTROL BLANKET (SEE SHEET 4)
---	FINAL STABILIZATION (SEED) (SEE SHEET 4)
---	CONCRETE SIDEWALK
---	NEW HEAVY DUTY ASPHALT PAVEMENT (SEE SHEET 5)
---	STANDARD DUTY ASPHALT PAVEMENT (SEE SHEET 5)
---	DETECTABLE WARNINGS (SEE DETAIL SHEET)

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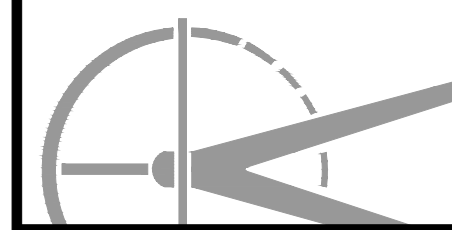
SHEET NO.	SHEET NAME
C1.000	COVER SHEET
C2.000	EXISTING CONDITIONS PLAN
C3.000	EROSION CONTROL PLAN
C3.001	EROSION CONTROL NOTES & DETAILS
C4.000	DEMOLITION PLAN
C5.000	GEOMETRIC PLAN
C6.000	GRADING PLAN
C7.000	STORM SEWER PLAN
C8.000	UTILITY PLAN
C9.000	STANDARD CONSTRUCTION NOTES
C10.000	STANDARD CONSTRUCTION DETAILS
C11.000	STANDARD CONSTRUCTION DETAILS
C12.000	MWRD EXHIBIT

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02-21-2020	ISSUED FOR REVIEW
03-06-2020	ISSUED FOR 75% COMPLETE
03-20-2020	ISSUED FOR 95% COMPLETE
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03-09-2021	ADDENDUM #1
03-26-2021	ROUND 1 COMMENT REVISIONS

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TIMBER RIDGE SCHOOL ADDITION
& RENOVATION
NSSEO
201 S. EVANSTON AVENUE
ARLINGTON HEIGHTS, ILLINOIS
FINAL ENGINEERING PLANS
COVER SHEET

PROJECT NO. M17096

DRAWN BY: CS

CHECKED BY: CS

SHEET NO. C1.000

PROJECT TEAM

OWNER	NORTHWEST SUBURBAN SPECIAL EDUCATION ORGANIZATION 799 W. KENSINGTON ROAD, MT. PROSPECT, IL 60056 Ph.(847)463.8100
ARCHITECT	WOLD ARCHITECTS & ENGINEERS 220 NORTH SMITH STREET, SUITE 310 PALATINE, IL 60067 Ph.(847)241.6100
CIVIL ENGINEER	MeritCorp Group, LLC 3697 DARLENE COURT AURORA, ILLINOIS 60504 Ph.(630)554.6655

NOTE

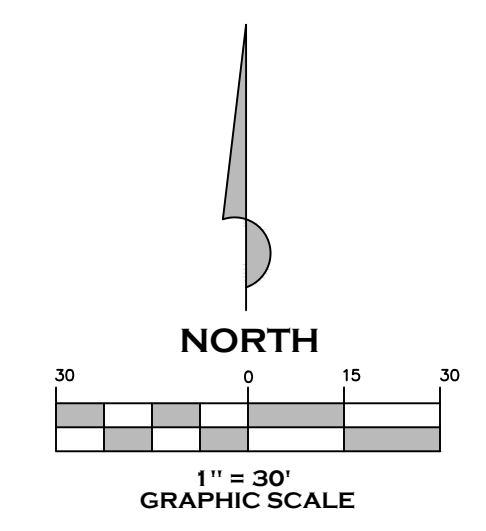
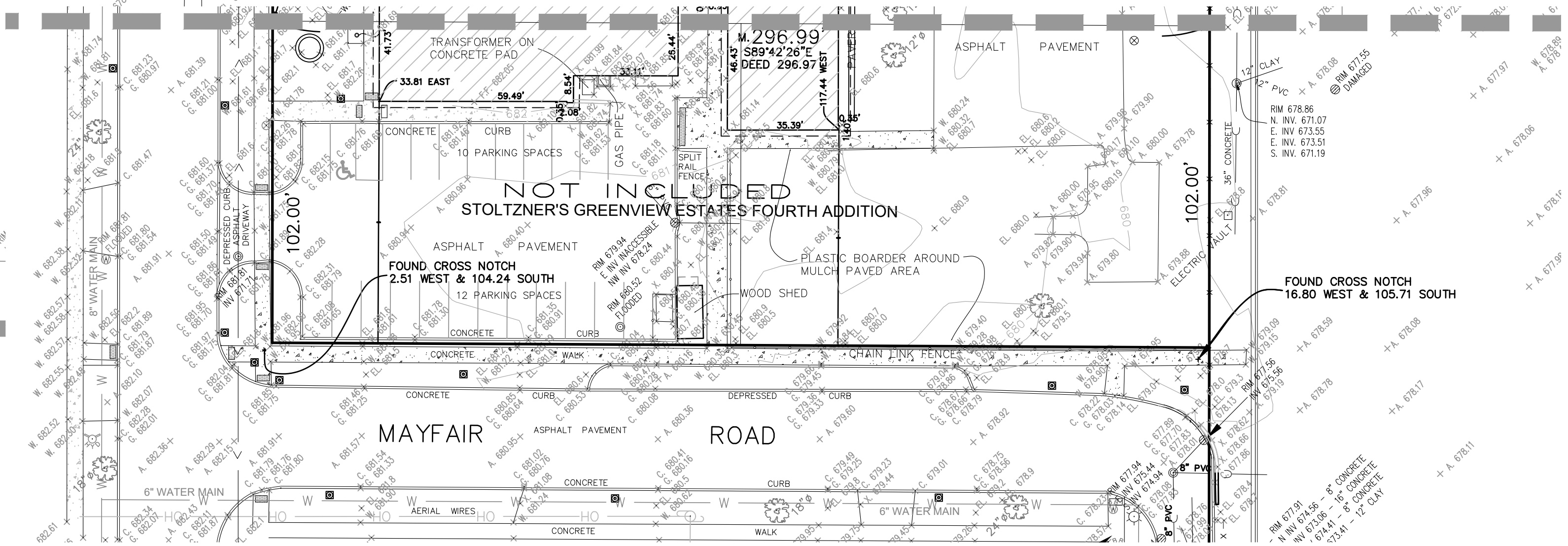
1. DETAILS AND NOTES WITHIN THESE PLANS, ALONG WITH NOTATIONS TO SUPPLEMENT SAME ARE CRUCIAL TO THE PROPER CONSTRUCTION OF THE DESIGN CONTAINED HEREIN.
2. CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS PRIOR TO ENGAGING IN A CONTRACT TO PERFORM WORK AS PROPOSED HEREIN.
3. PLANS ARE NOT VALID WITHOUT ORIGINAL SIGNATURE AND SEAL OF THE ENGINEER.

SITE BENCHMARKS

AS PROVIDED FROM A TOPOGRAPHIC SURVEY COMPLETED BY GREMLEY & BIEDERMAN A DIVISION OF PLCS, CORPORATION, DATED 09/12/2017 AS SHOWN ON SHEET C2.000.

ABBREVIATIONS

AGG. ALT. B.A.M. B-B BB BIT. BC BENCH. BIT. BM B.O. B/P B/W CB CATV CL CMP CS C.O. CONC. DIA. D.I.W.M. D.S. E/P E-E ELEV. ES EX. F-F FES F/F FL FG HDL HH H.W.L. INV. I.P. INV. MAX M.E. MH MIN. MIN. N.W.L. PED. PC PCC PRC PT PVC PVI PVT PP PWC R ROP R.O.W. R.O. SAN SAN. STM STA. SY TBR T/C T/F T/W TRANS W.M.	AGGREGATE GRAVEL ALTERNATE BENCH. MARK BACK OF CURB BACK OF CURB BITUMINOUS CONCRETE BENCHMARK BY OTHERS BOTTOM OF PIPE BOTTOM OF WALL CATCH BASIN CABLE TELEVISION COMMON CORRUGATED METAL PIPE CENTER OF STRIPE CLEAN OUT CONCRETE CONCRETE DIAMETER DUCTILE IRON WATER MAIN DOWN SPOUT EDGE OF PAVEMENT EDGE TO EDGE EDGE OF STRIPE EDGE OF WALK EXISTING FACE TO FACE FLARED END SECTION FINISHED FLOOR FINISHED GRADE HEADWALL HAND HOLE HIGH WATER LEVEL HYDRANT INLET INVERT IRON PIPE L.P. MAXIMUM MATCH EXISTING MANHOLE MINIMUM NORMAL WATER LEVEL PEDESTAL POINT OF CURVE POINT OF COMPOUND CURVE POINT OF INTERSECTION POINT OF TANGENCY POINT OF REVERSE CURVE POINT OF VERTICAL CURVE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY PROPERTY LINE POWER POLE POLYVINYL CHLORIDE PIPE RADIUS REINFORCED CONCRETE PIPE RIGHT OF WAY ROOF DRAIN SANITARY STORM MANHOLE STORM STATION SQUARE FEET SQUARE YARD TO BE REMOVED TOP OF CURB TOP OF FOUNDATION TOP OF PIPE TOP OF WALL TRANSFORMER VALVE VAULT WATER MAIN
--	--



1. SURVEY COMPLETED BY GREMLEY & BIEDERMAN, A DIVISION OF PLCS, CORPORATION, DATED 09/12/2017.

2. SUPPLEMENTAL UTILITY INFORMATION PROVIDED BY DAHME MECHANICAL INDUSTRIES, INC. DATED NOVEMBER 19, 2017 AND NOTED HEREON.

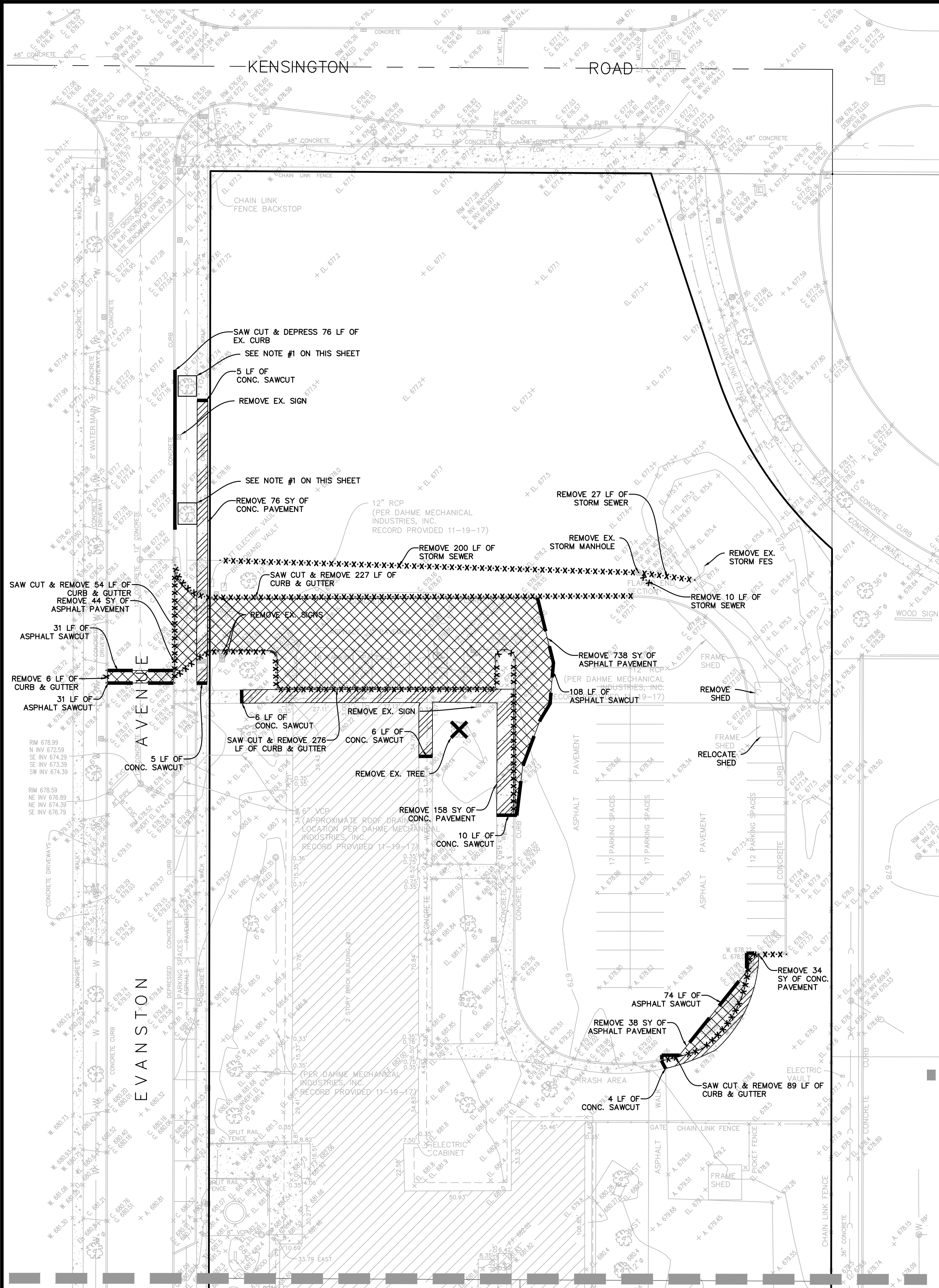
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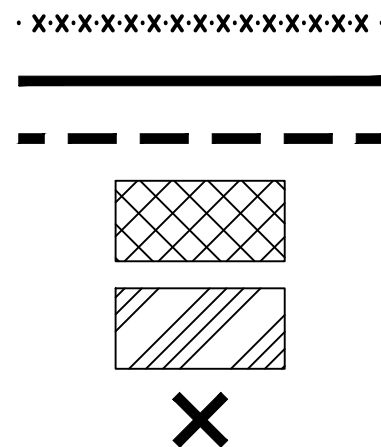
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ARLINGTON HEIGHTS, ILLINOIS**

**FINAL ENGINEERING PLANS
EXISTING CONDITIONS PLAN**

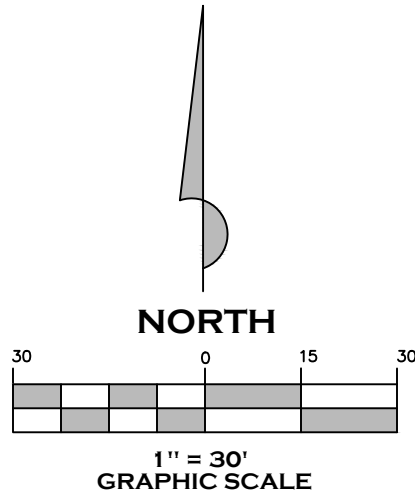
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LEGEND

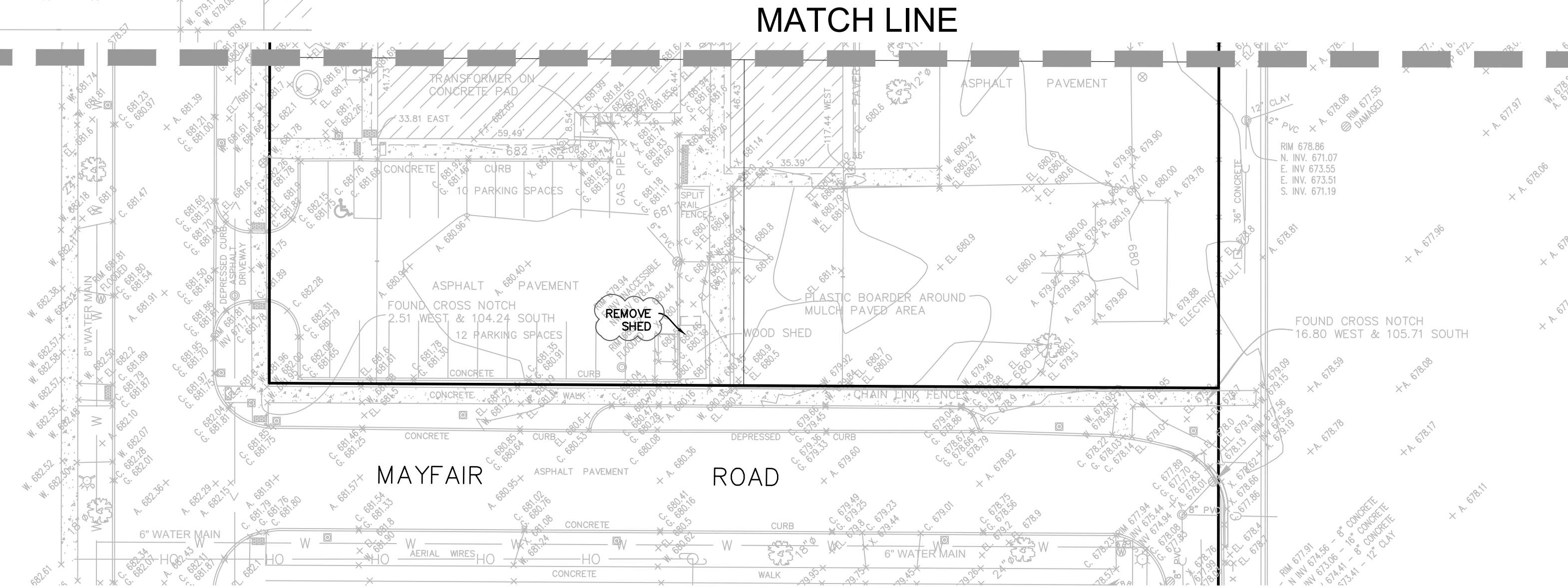


- REMOVE ITEM
- SAWCUT BACK OF CURB
- FULL DEPTH SAWCUT PAVEMENT
- REMOVE ASPHALT PAVEMENT
- REMOVE CONC. PAVEMENT
- REMOVE TREE



NOTE:

1. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ANY IMPACT WITH THE EXISTING TREE AND ROOTS IN THE PARKWAY. THIS SHALL BE COORDINATED WITH THE VILLAGE AND OWNER TO DETERMINE IF REMOVAL IS NECESSARY.



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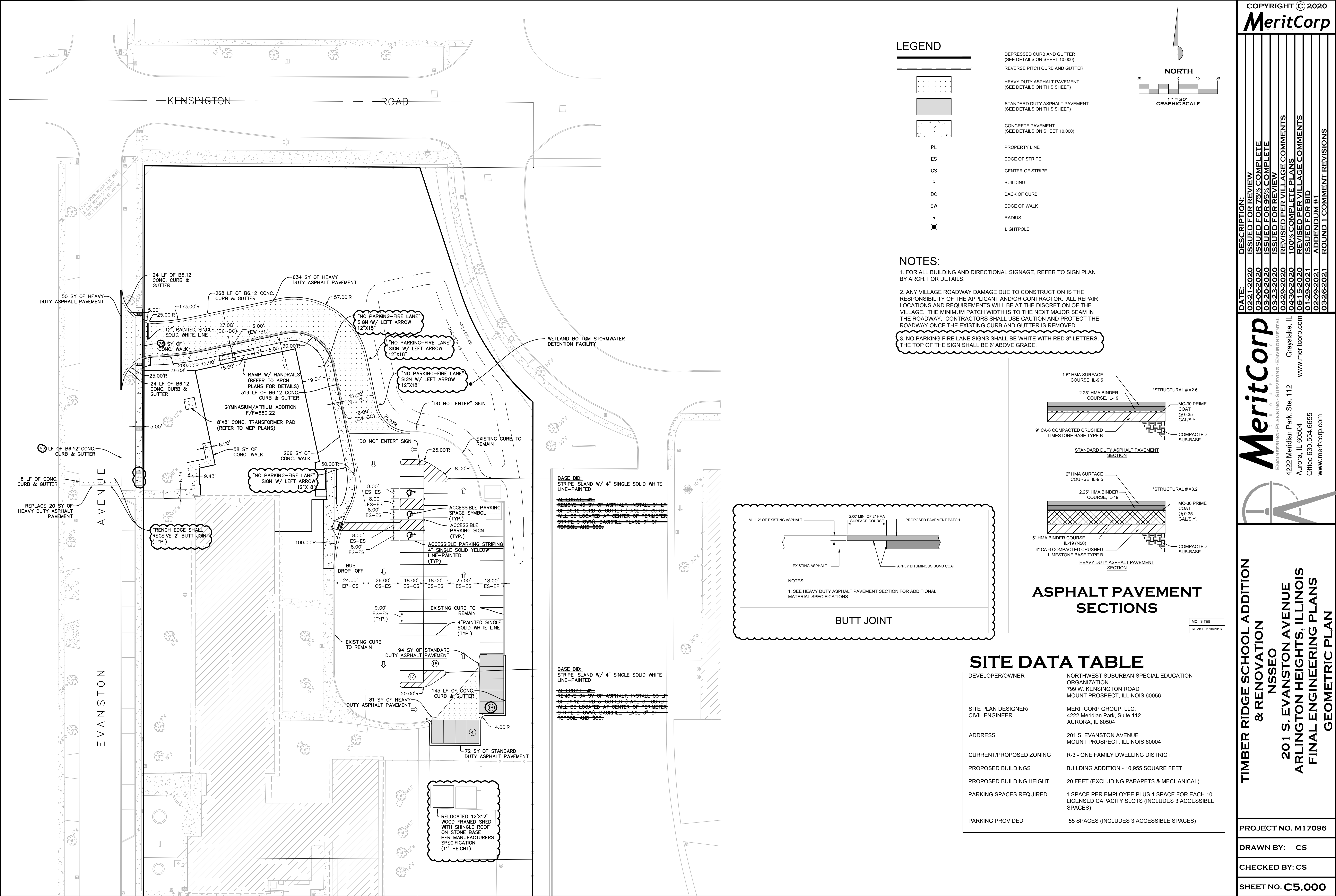
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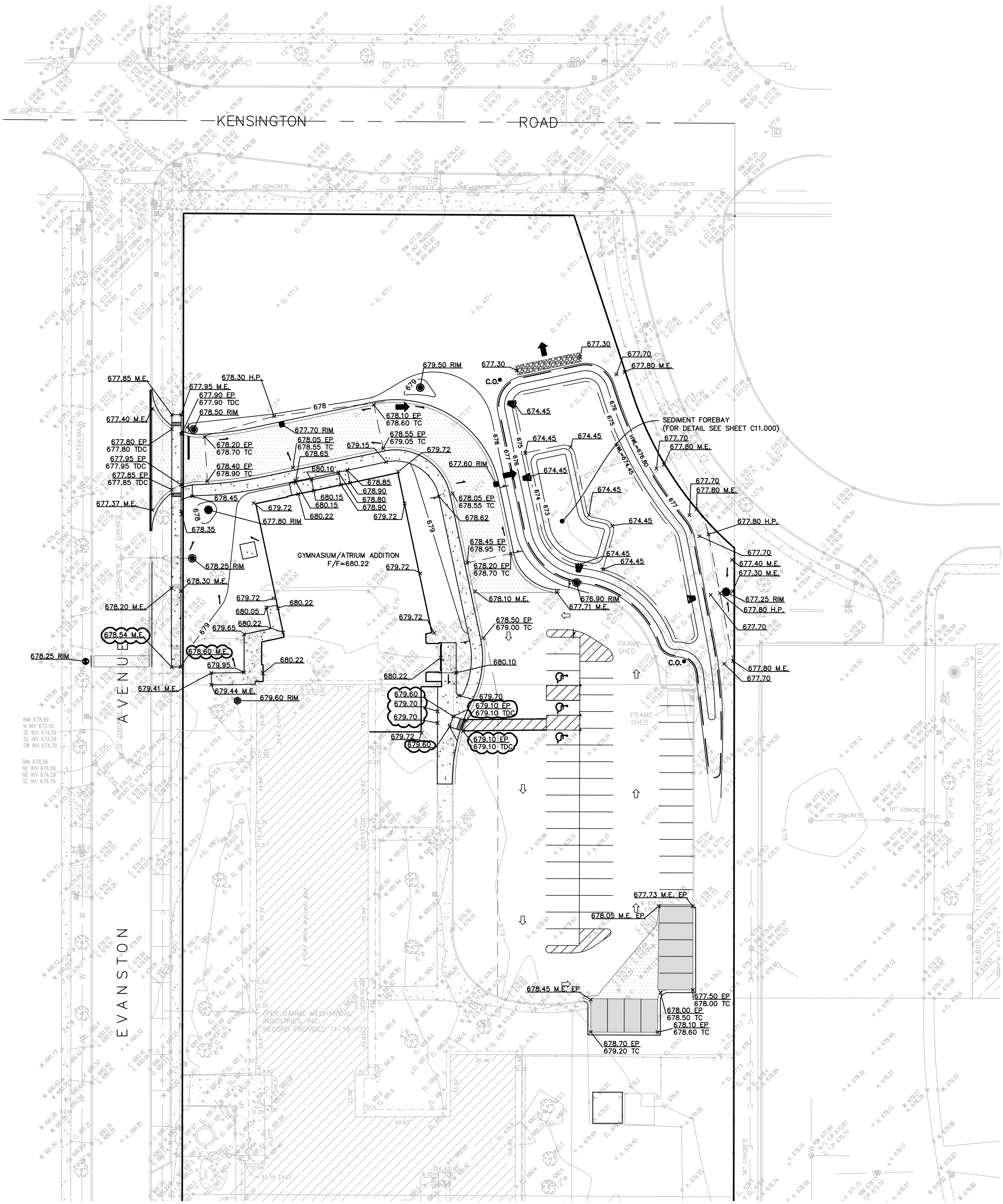
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FINAL ENGINEERING PLANS
DEMOLITION PLAN

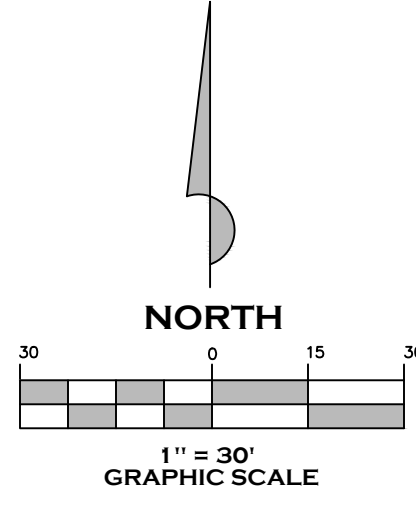
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LEGEND

- DEPRESSED CURB AND GUTTER (SEE DETAILS ON SHEET 12)
- REVERSE PITCH CURB AND GUTTER
- GRADING CONTOUR
- EMERGENCY OVERLAND FLOOD ROUTE
- DRAINAGE FLOW ARROW
- TOP OF FOUNDATION
- GARAGE FLOOR
- EDGE OF PAVEMENT
- TOP OF CURB
- TOP OF DEPRESSED CURB
- MATCH EXISTING
- TOP OF WALL
- BOTTOM OF WALL
- HIGH WATER LEVEL
- NORMAL WATER LEVEL



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FINAL ENGINEERING PLANS

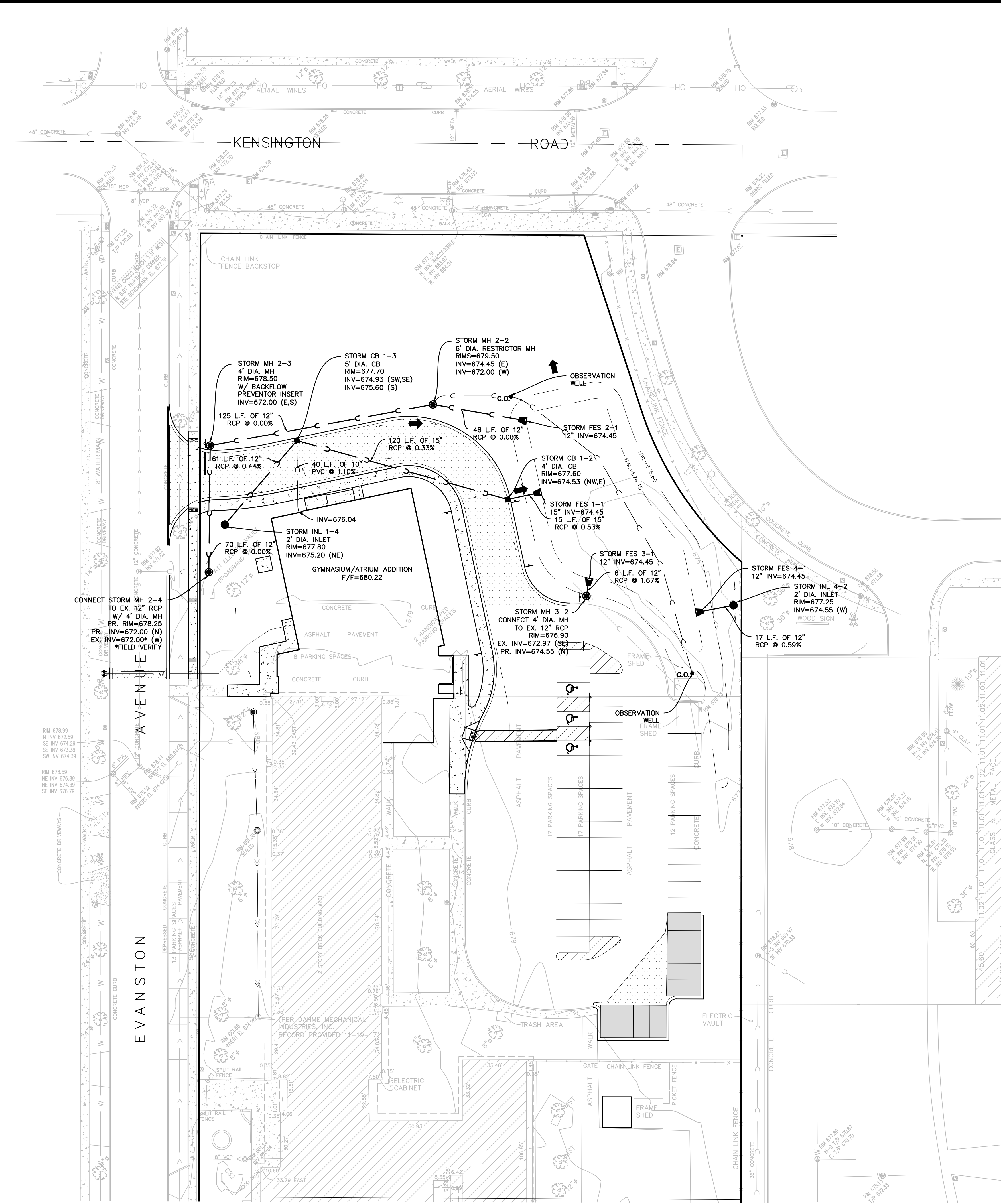
GRADING PLAN

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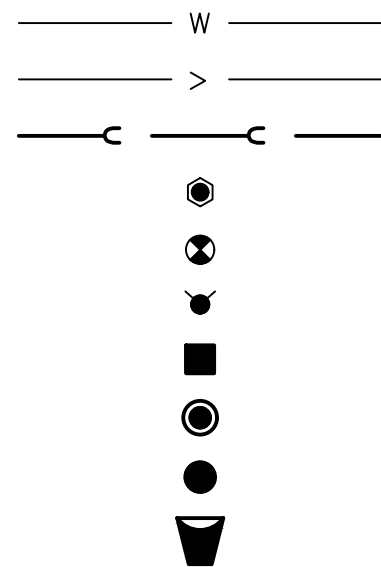
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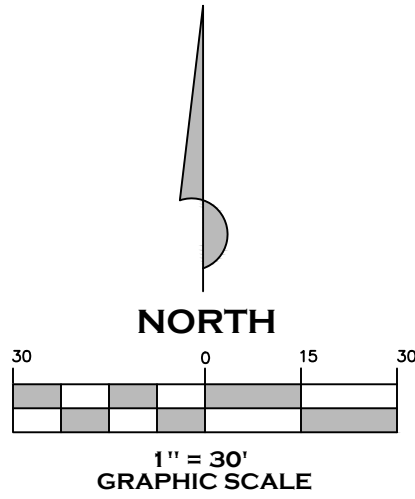
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LEGEND



- WATER LINE
- SANITARY LINE
- STORM SEWER
- SANITARY MANHOLE
- VALVE VAULT
- FIRE HYDRANT
- STORM CURB FRAME & GRATE
- STORM MANHOLE
- STORM CATCH BASIN
- STORM FLARED END SECTION



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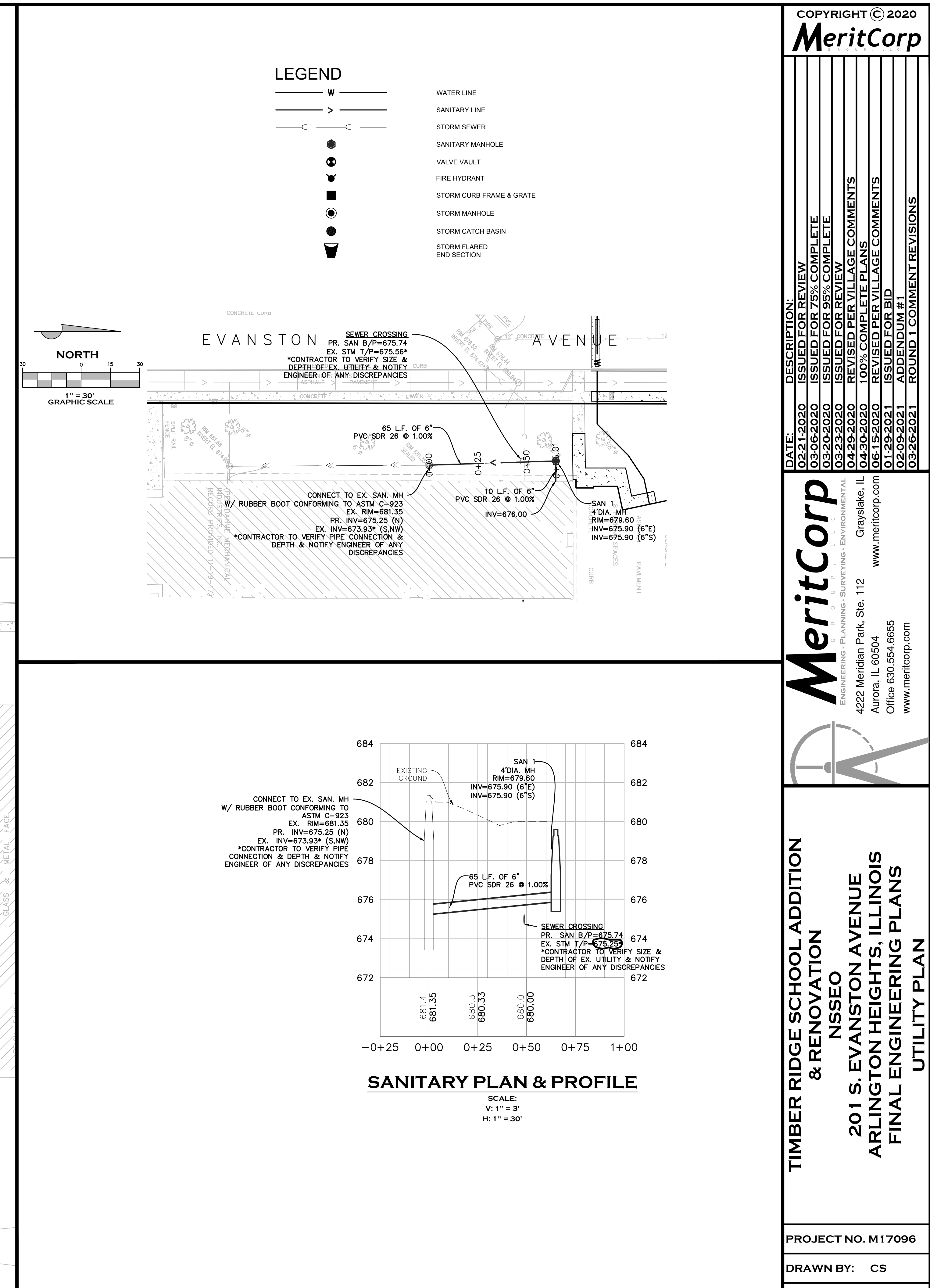


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STORM SEWER PLAN

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STANDARD RED AND WHITE SIGN
R1-2 - YIELD

STANDARD RED AND WHITE SIGN
W11-2 - PEDESTRIAN CROSSING WARNING

R7-8 OR R7-8A

R7-8P

R7-8P

R7-8P

NOTES:

- ALL SIGNS SHALL FOLLOW THE MUTCD, MOST RECENT EDITION, UNLESS OTHERWISE SPECIFIED BY THE LOCAL DEPARTMENT OF TRANSPORTATION OR MUNICIPALITY STANDARDS.
- ALL SIGNS SHALL BE MOUNTED AT A HEIGHT AND LOCATION AS SPECIFIED BY THE MUTCD, LOCAL D.O.T. OR LOCAL MUNICIPALITY STANDARDS.

ACCESSIBLE SPACE SIGNAGE

MC - SITE2
REVISED: 7/2012

STANDARD RED AND WHITE SIGN
R5-2-DO NOT ENTER

STANDARD RED AND WHITE SIGN
R1-1 - STOP

STANDARD BLACK AND WHITE SIGN
R2-1 - SPEED LIMIT

STANDARD BLACK AND WHITE SIGN
R6-2 - ONE WAY

NOTES:

- ALL SIGNS SHALL FOLLOW THE MUTCD, MOST RECENT EDITION, UNLESS OTHERWISE SPECIFIED BY THE LOCAL DEPARTMENT OF TRANSPORTATION OR MUNICIPALITY STANDARDS.
- ALL SIGNS SHALL BE MOUNTED AT A HEIGHT AND LOCATION AS SPECIFIED BY THE MUTCD, LOCAL D.O.T. OR LOCAL MUNICIPALITY STANDARDS.

TRAFFIC DIRECTION ARROW DETAILS

MC - SITE1
REVISED: 7/2012

THROUGH ARROW

COMBINED ARROW

TURN ARROW

NOTES:

- ON-SITE MARKINGS SHALL BE WHITE PAINT WITH REFLECTIVE SURFACES.

TRAFFIC DIRECTION ARROW DETAILS

MC - SITE7
REVISED: 7/2012

ELEVATION

PLAN

NOTES:

- ALL DETECTABLE WARNINGS SHALL COMPLY WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ILLINOIS ACCESSIBILITY CODE.
- DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
- DETECTABLE WARNING SURFACES SHALL HAVE A MINIMUM DEPTH OF 2".
- DETECTABLE WARNING TILES SHALL BE PLASTIC REPLACEABLE PADS WITH EMBEDDED ANCHORS AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

DETECTABLE WARNINGS

MC - SITE12
REVISED: 6/2013

5" CONCRETE

5" UNLESS OTHERWISE NOTED ON PLANS

NOTES:

- INSTALL CONTRACTION JOINTS EVERY 5'-0" O.C.
- INSTALL EXPANSION JOINTS EVERY 45'-0" O.C.
- INSTALL (3) #5 REBARS, 20' LONG ACROSS TRENCH CROSSINGS (TYP)
- CONCRETE THICKNESS SHALL BE INCREASED TO 6" AT ALL DRIVEWAYS.
- P.C.C. SHALL BE CLASS SI, 3500 PSI @ 14 DAYS, SIX BAG MIX.
- SIDEWALK SHALL HAVE A BROOM FINISH.

PCC SIDEWALK

MC - SITE3
REVISED: 7/2012

FINISHED GRADE

TRENCH WALL

MECHANICALLY COMPACTED BACKFILL OF EXCAVATED MATERIALS, UNDER PAVEMENT, CURB AND GUTTER AND WITHIN 2 FEET OF ANY PROPOSED CURB AND GUTTER OR SIDEWALK SHALL RECEIVE TRENCH BACKFILL (CA-6).

UNSUITABLE MATERIAL TO BE REMOVED WHERE DIRECTED BY ENGINEER AND REPLACED WITH SUITABLE MATERIAL AND COMPACTED.

NOTES:

- PROVIDE THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, TEES, CAPS, VALVES, WYOFFS, AND AT POINTS SPECIFIED BY THE ENGINEER.
- ALL BLOCKING SHALL BE WITH POURED CLASS S (3000 PSI) CONCRETE A MINIMUM OF 12" THICK PLACED AGAINST UNDISTURBED EARTH SURFACE AND FITTING.
- DIMENSIONS OF THRUST BLOCKS ARE BASED ON 2000PSF SOIL BEARING CAPACITY, WORKING PRESSURE OF 100 PSIG AND A SAFETY FACTOR OF 1.5.
- ALL BLOCKING SHALL BE POURED INTO UNDISTURBED EARTH.
- ALL BENDS OR ELBOWS OF 11 1/4" OR GREATER SHALL HAVE THRUST BLOCKING.
- IF ADEQUATE UNDISTURBED BEARING AREA CANNOT BE OBTAINED, USE CONCRETE THRUST BLOCKS IN COMBINATION WITH RESTRAINED AND/OR TIED JOINTS.
- THRUST BLOCKS SHALL BE ANCHORED IN SUCH A MANNER THAT PIPE AND FITTINGS WILL BE ACCESSIBLE FOR REPAIRS.

WATER MAIN/SERVICE TRENCH DETAIL

MC - W9
REVISED: 7/2013

THRUST BLOCK DETAIL

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NOTES:

- PROVIDE THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, TEES, CAPS, VALVES, WYOFFS, AND AT POINTS SPECIFIED BY THE ENGINEER.
- ALL BLOCKING SHALL BE WITH POURED CLASS S (3000 PSI) CONCRETE A MINIMUM OF 12" THICK PLACED AGAINST UNDISTURBED EARTH SURFACE AND FITTING.
- DIMENSIONS OF THRUST BLOCKS ARE BASED ON 2000PSF SOIL BEARING CAPACITY, WORKING PRESSURE OF 100 PSIG AND A SAFETY FACTOR OF 1.5.
- ALL BLOCKING SHALL BE POURED INTO UNDISTURBED EARTH.
- ALL BENDS OR ELBOWS OF 11 1/4" OR GREATER SHALL HAVE THRUST BLOCKING.
- IF ADEQUATE UNDISTURBED BEARING AREA CANNOT BE OBTAINED, USE CONCRETE THRUST BLOCKS IN COMBINATION WITH RESTRAINED AND/OR TIED JOINTS.
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THRUST BLOCK DETAIL

MC - W4
REVISED: 7/2012

WATER MAIN/SERVICE TRENCH DETAIL

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WATER MAIN/SERVICE TRENCH DETAIL

MC - W9
REVISED: 7/2013

WATER MAIN/SERVICE TRENCH DETAIL

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WATER MAIN/SERVICE TRENCH DETAIL

MC - W9
REVISED: 7/2013

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WATER MAIN/SERVICE TRENCH DETAIL

MC - W9
REVISED: 7/2013

WATERMAIN CASING PIPE AND SEWER SEPARATION

WATERMAIN CASING PIPE AND SEWER SEPARATION

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WATERMAIN CASING PIPE AND SEWER SEPARATION

MC - W1
REVISED: 7/2012

PRESSURE CONNECTION VAULT DETAIL

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PRESSURE CONNECTION VAULT DETAIL

MC - W2
REVISED: 7/2012

RIGID PIPE INSTALLATION DETAIL

RIGID PIPE INSTALLATION DETAIL

NOTES:

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TECHNICAL GUIDANCE MANUAL

STD. DWG. NO. 34
PAGE NO. 35

FLEXIBLE PIPE INSTALLATION DETAIL

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PAGE NO. 35

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WATERMAIN CASING DETAIL

MC - SAN6
REVISED: 7/2012

CLEANOUT DETAIL

CLEANOUT DETAIL

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MC - W1
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PRESSURE CONNECTION VAULT DETAIL

MC - W2
REVISED: 7/2012

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WATERMAIN CASING DETAIL

MC - SAN6
REVISED: 7/2012

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PAGE NO. 35

MeritCorp

201 S. EVANSTON AVENUE
ARLINGTON HEIGHTS, ILLINOIS
FINAL ENGINEERING PLANS

STANDARD CONSTRUCTION DETAILS

PROJECT NO. M17096

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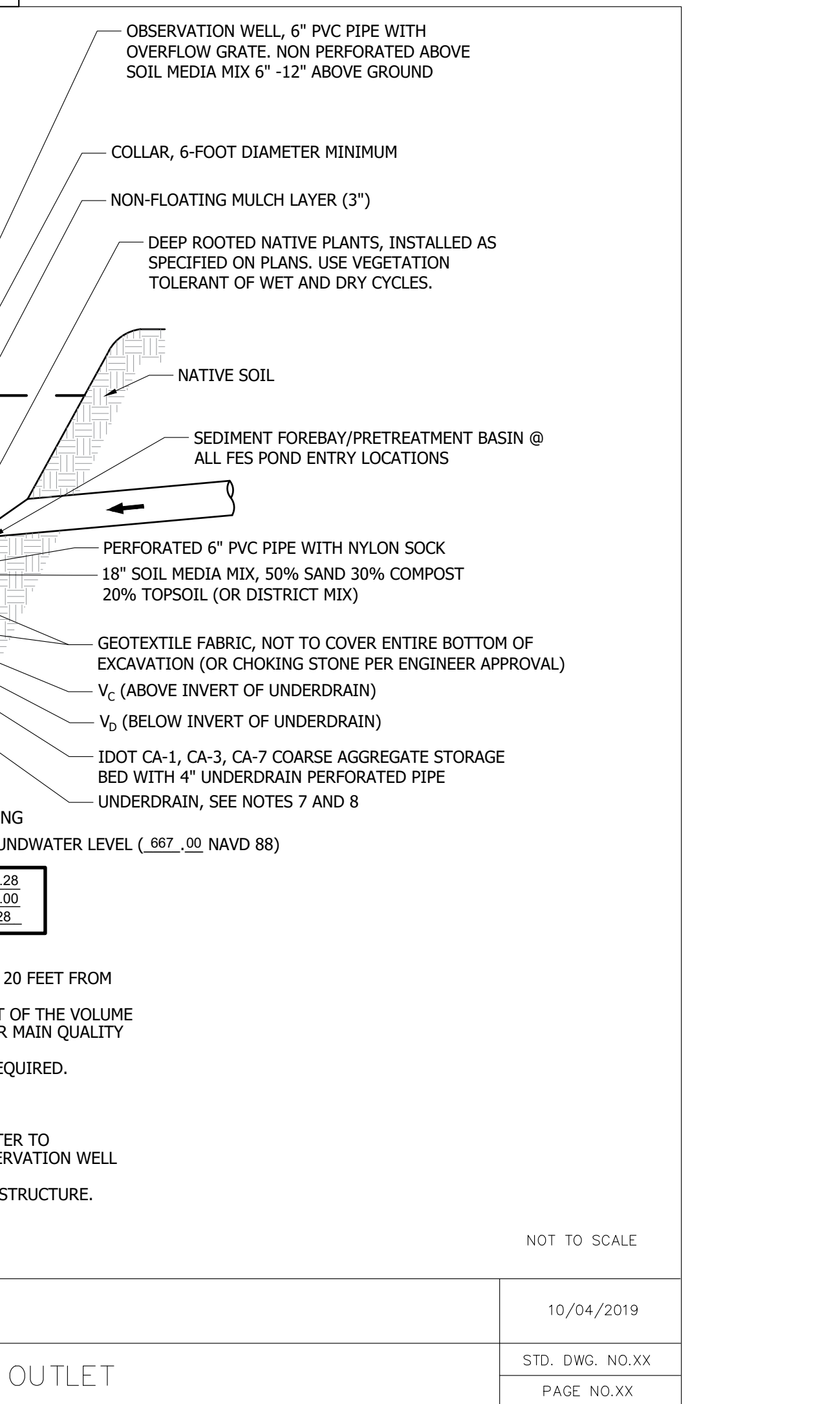
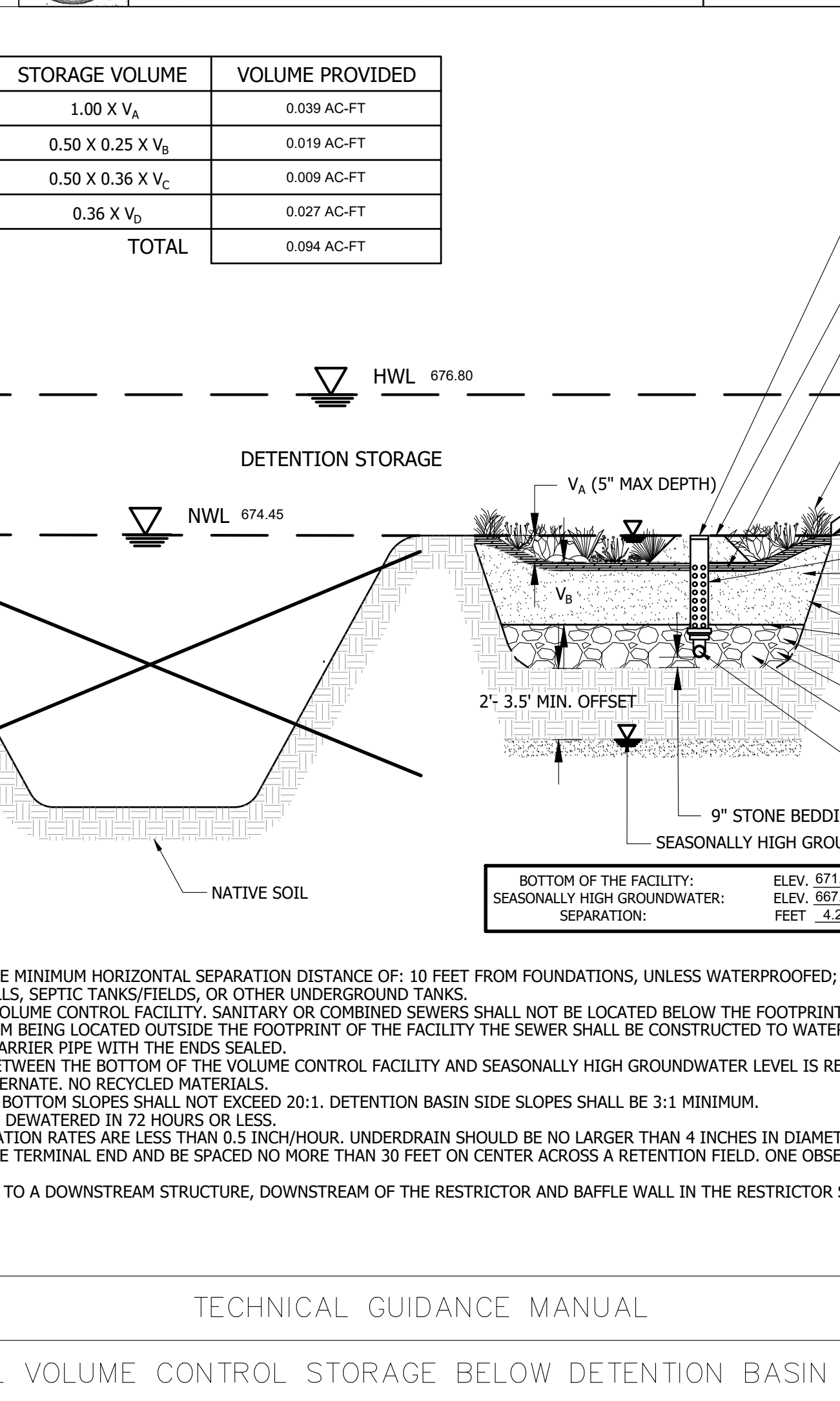
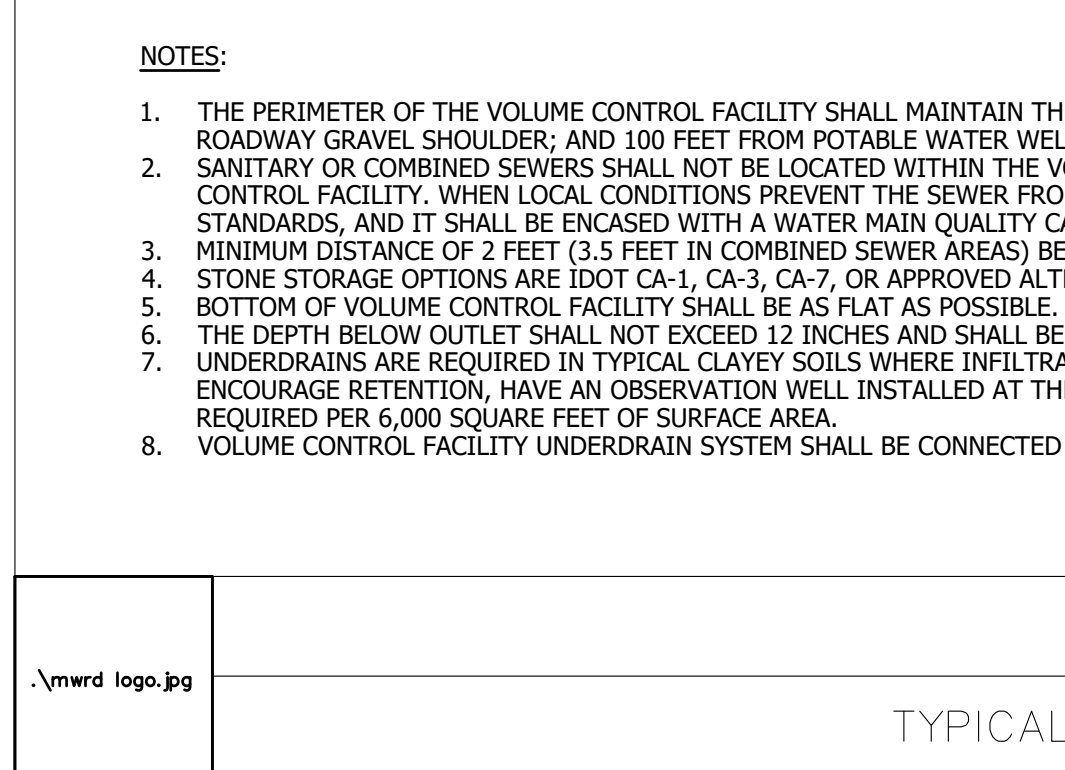
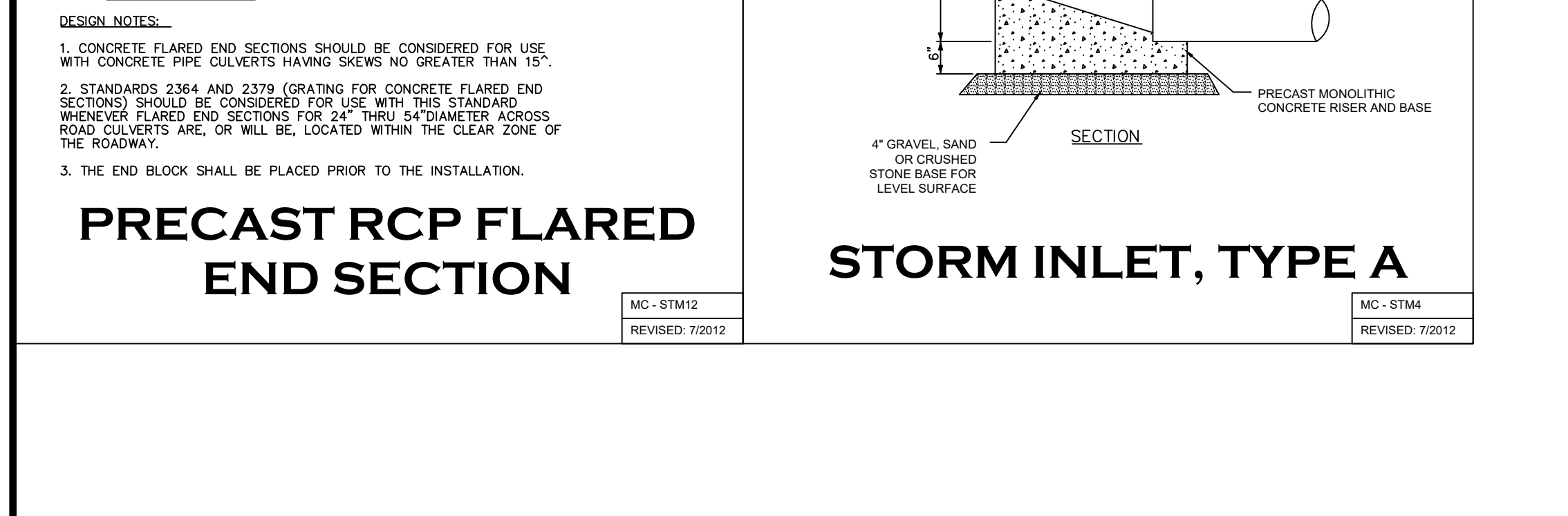
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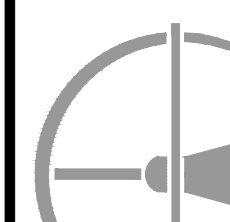
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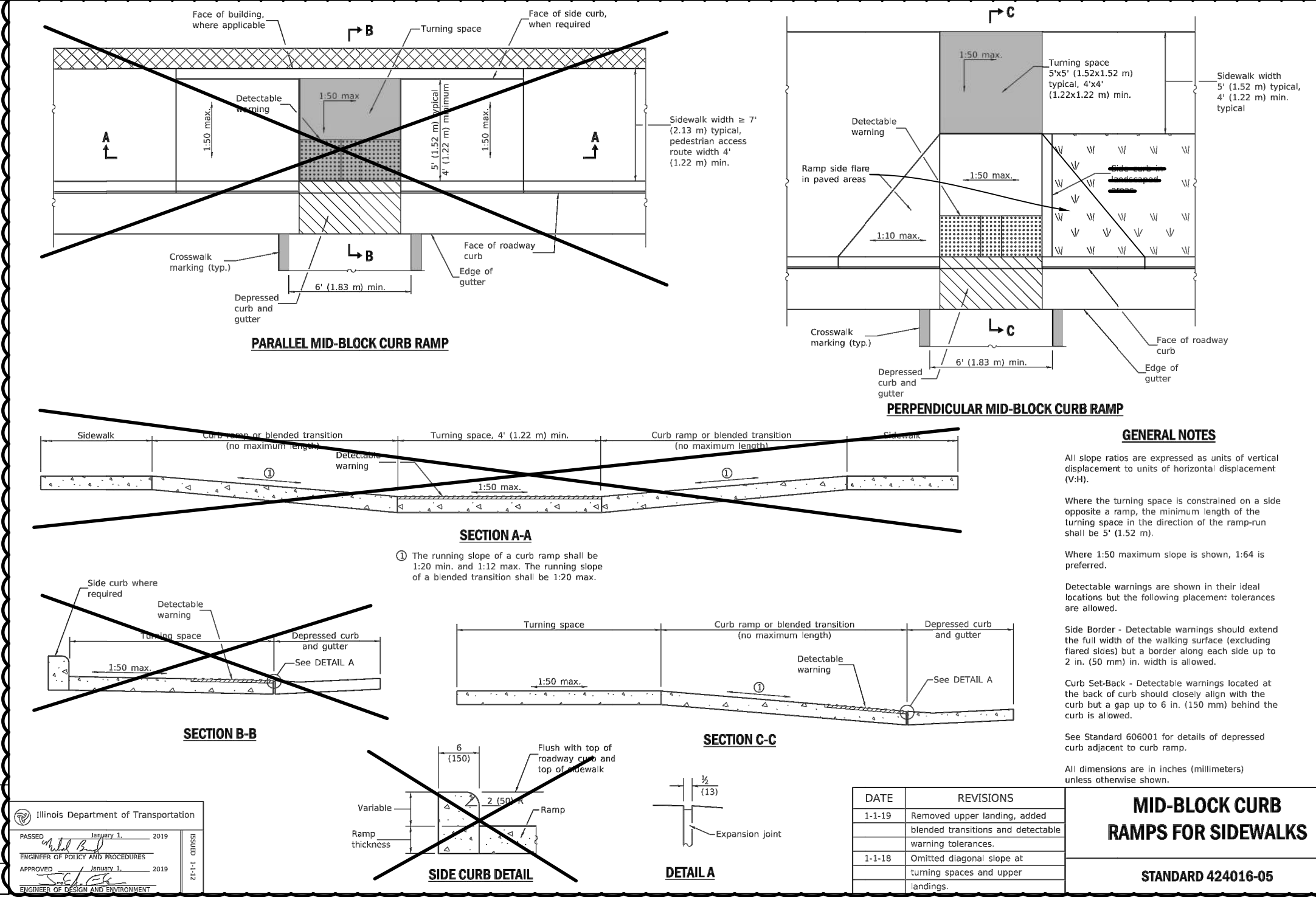
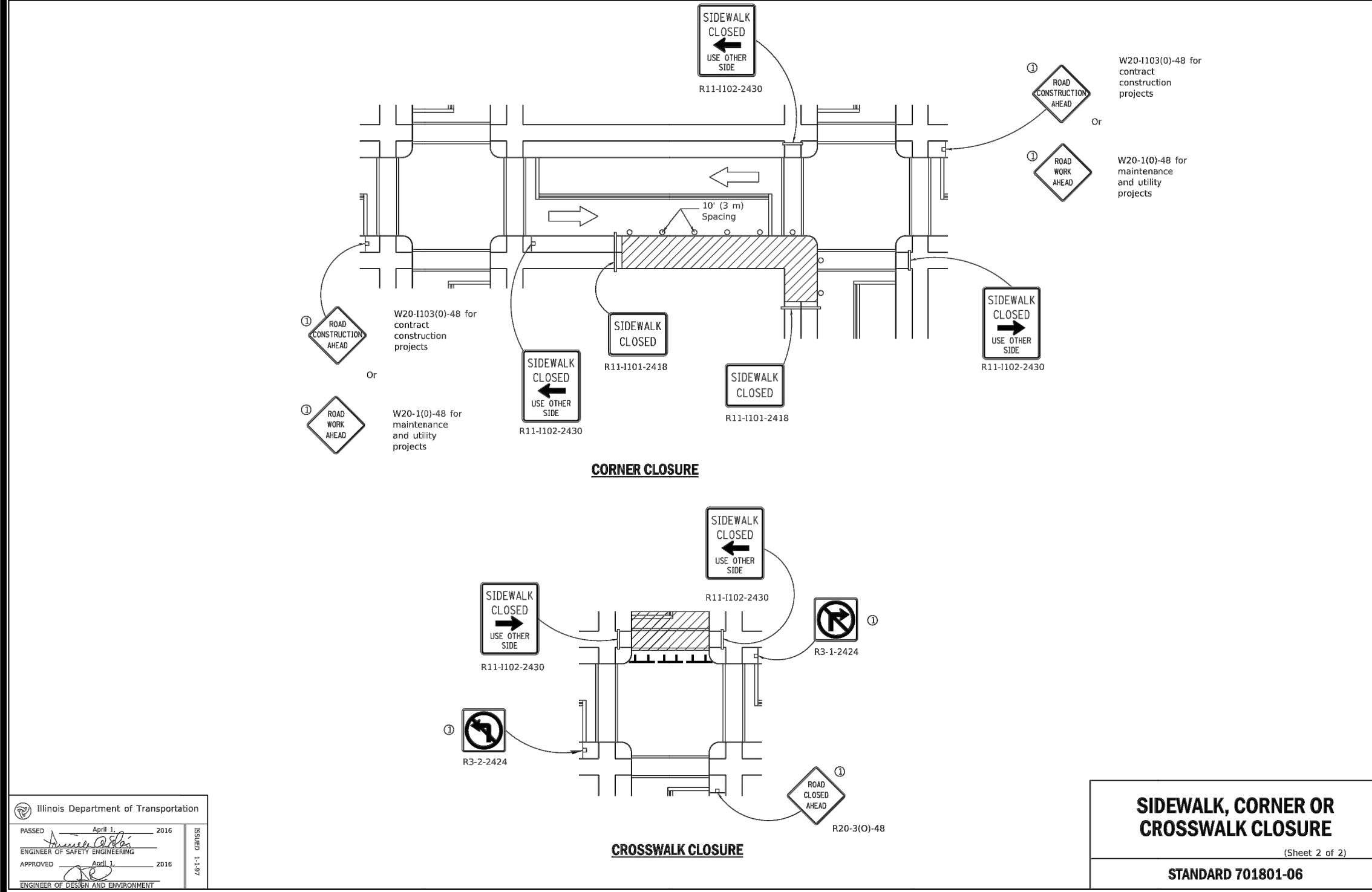
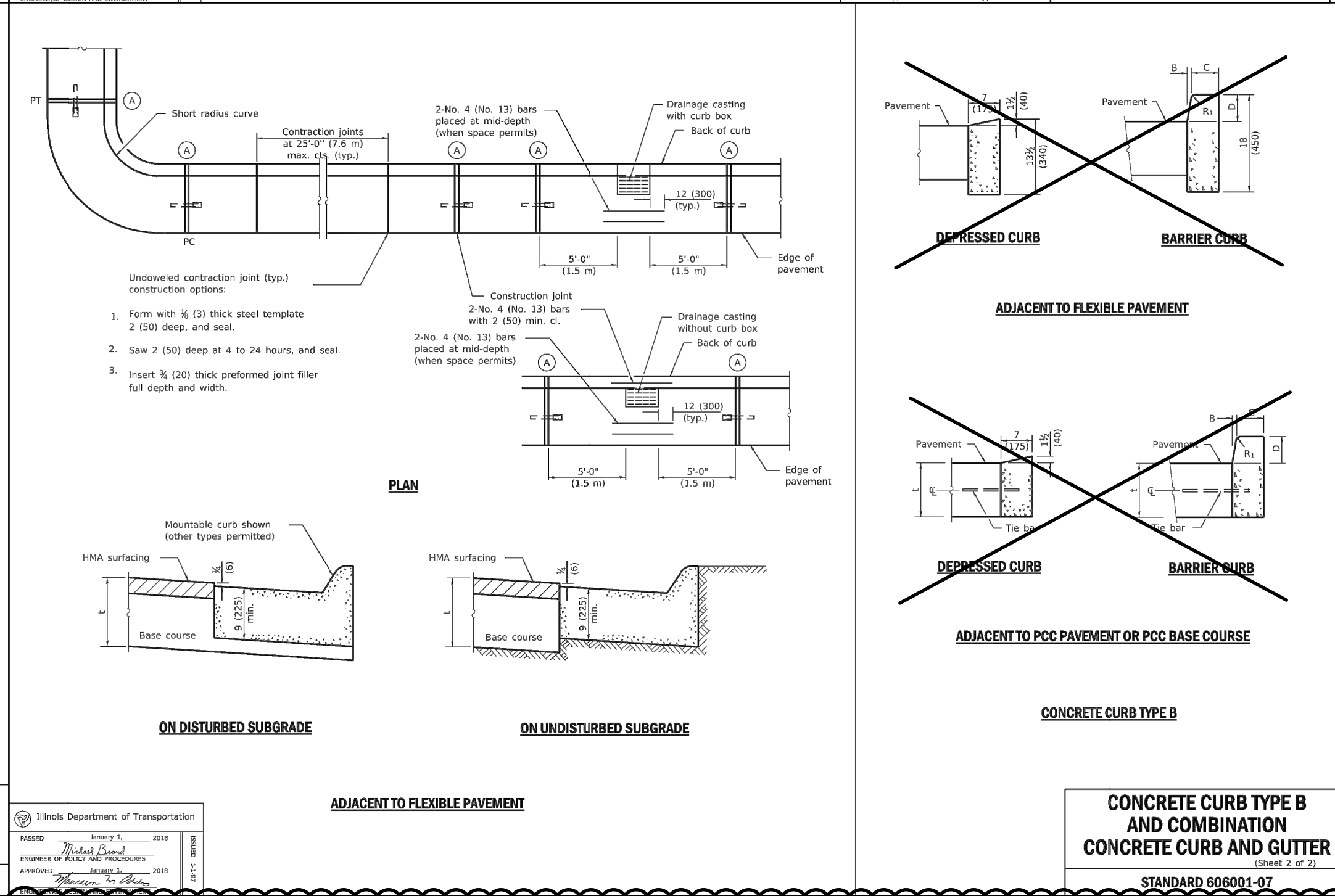
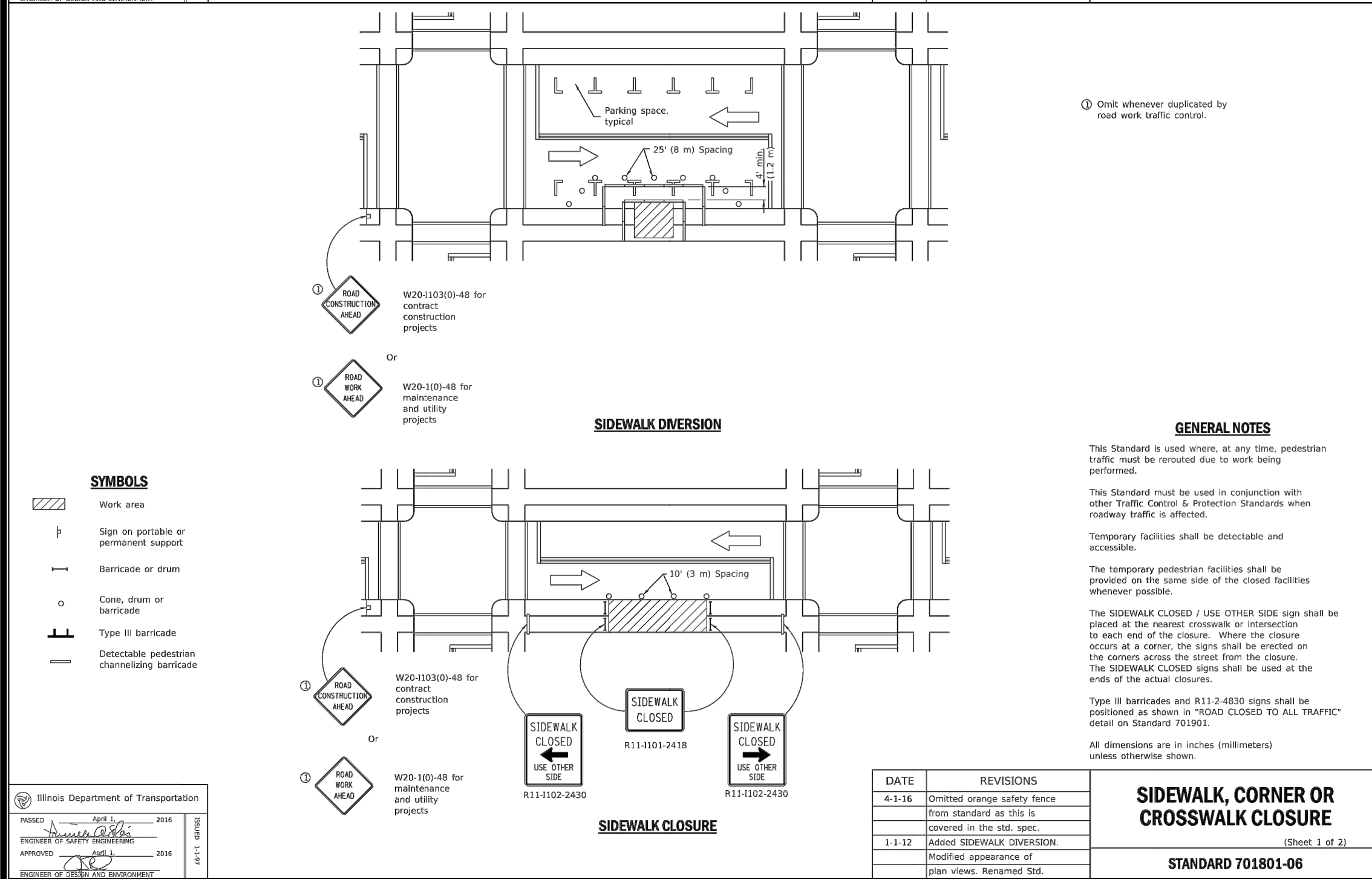
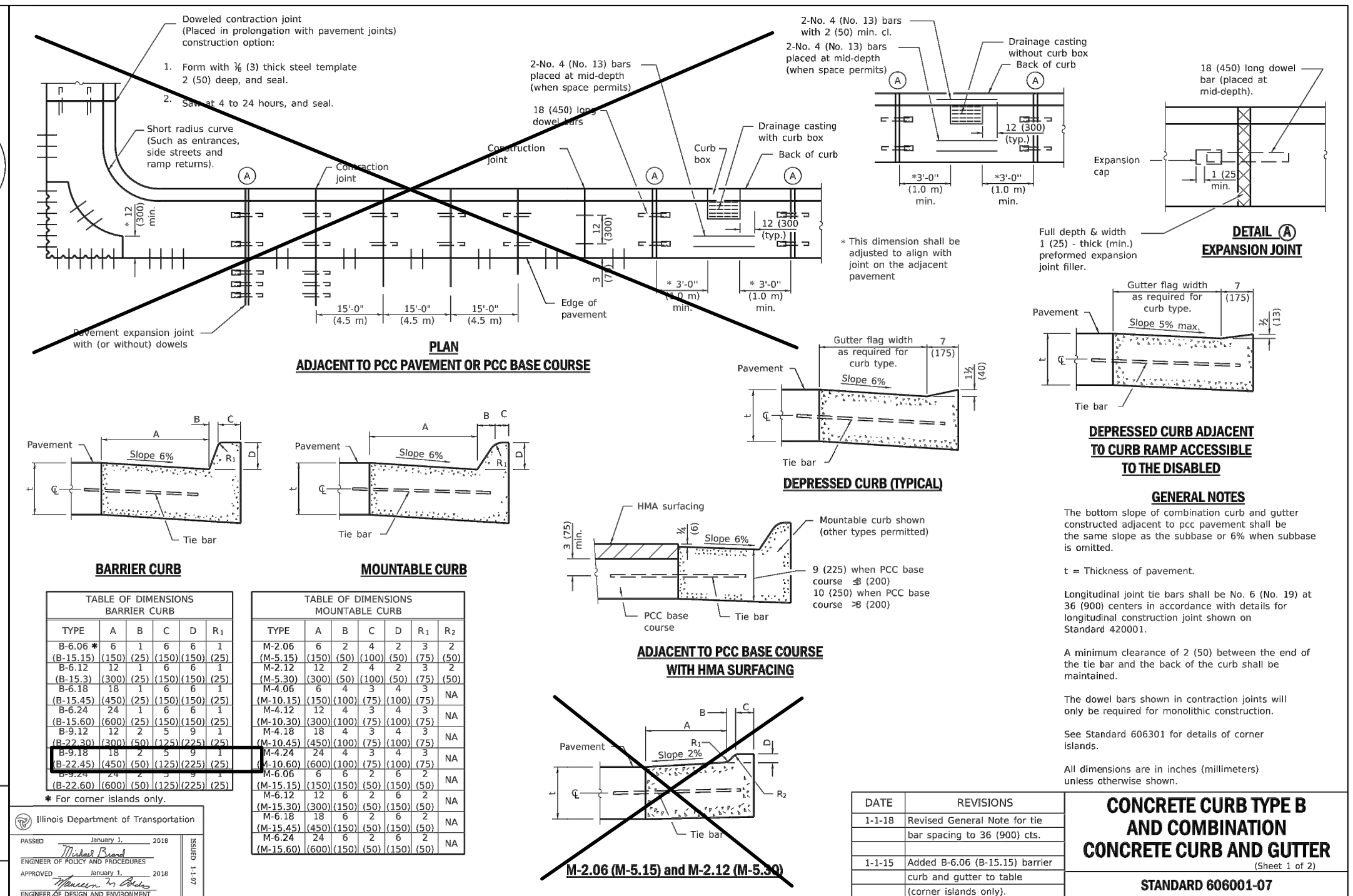
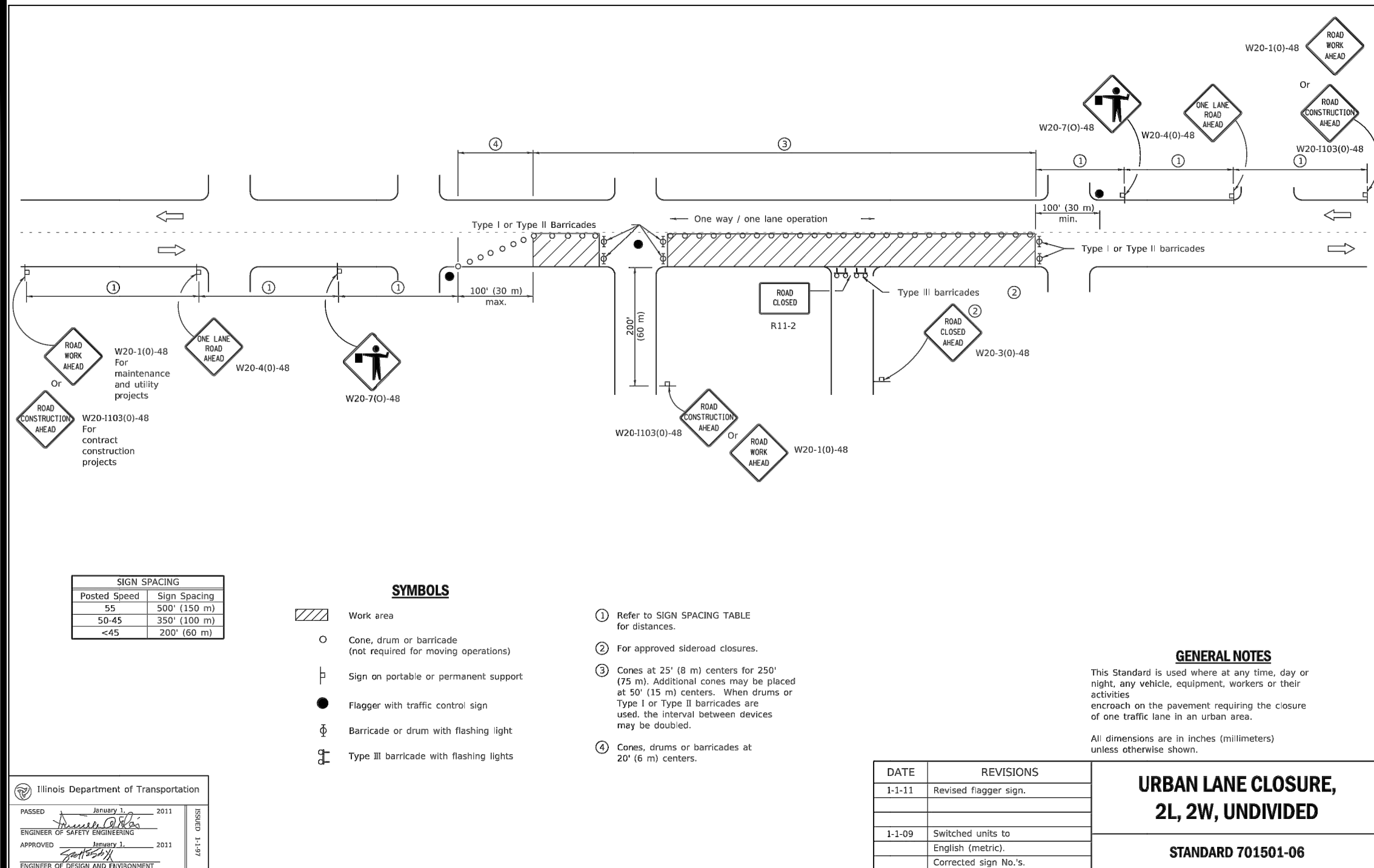
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03-06-2020
03-20-2020
03-23-2020
04-29-2020
06-15-2020
01-29-2021
03-09-2021
03-26-2021

DESCRIPTION:
ISSUED FOR REVIEW
ISSUED FOR 75% COMPLETE
ISSUED FOR REVIEW
REVISED PER VILLAGE COMMENTS
100% COMPLETE PLANS
REVISED PER VILLAGE COMMENTS
ADDENDUM #1
FOUND 1 COMMENT REVISIONS

Graylake, IL
www.meritcorp.com
4222 Meridian Park, Ste. 112
Aurora, IL 60504
Office 630.554.8655
www.meritcorp.com



TIMBER RIDGE SCHOOL ADDITION & RENOVATION NSSEO 201 S. EVANSTON AVENUE ARLINGTON HEIGHTS, ILLINOIS FINAL ENGINEERING PLANS STANDARD CONSTRUCTION DETAILS		 MeritCorp ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL 4222 Meridian Park, Ste. 112 Aurora, IL 60504 Office 630.554.6655 www.meritcorp.com Grayslake, IL www.meritcorp.com	DATE: 02-21-2020 03-06-2020 03-20-2020 03-23-2020 04-29-2020 04-30-2020 06-15-2020 01-23-2021 02-09-2021 03-26-2021 DESCRIPTION: ISSUED FOR REVIEW ISSUED FOR 75% COMPLETE ISSUED FOR 95% COMPLETE ISSUED FOR REVIEW REVISED PER VILLAGE COMMENTS 100% COMPLETE PLANS REVISED PER VILLAGE COMMENTS ISSUED FOR BID ADDENDUM #1 ROUND 1 COMMENT REVISIONS	COPYRIGHT © 2020 MeritCorp
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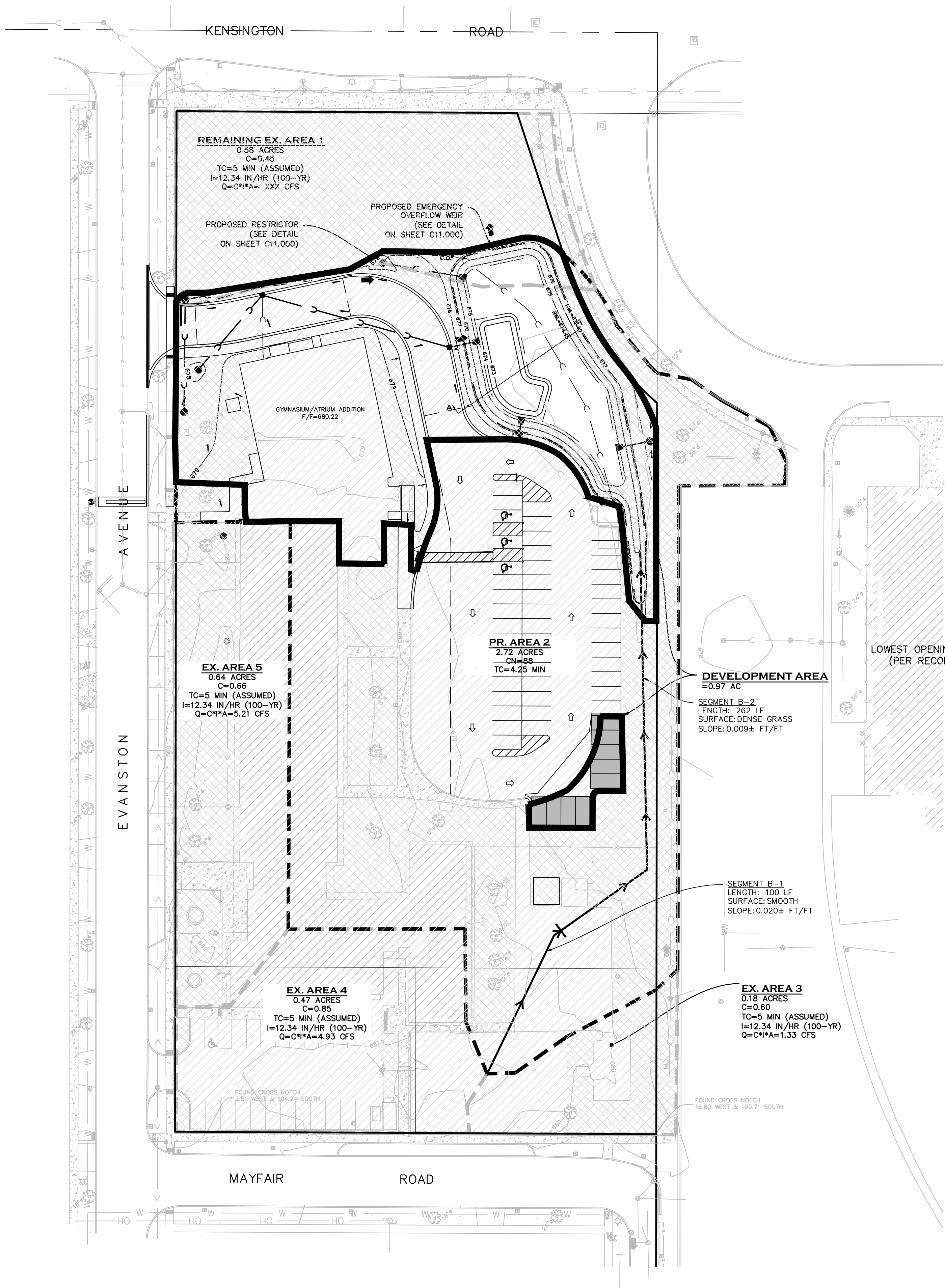
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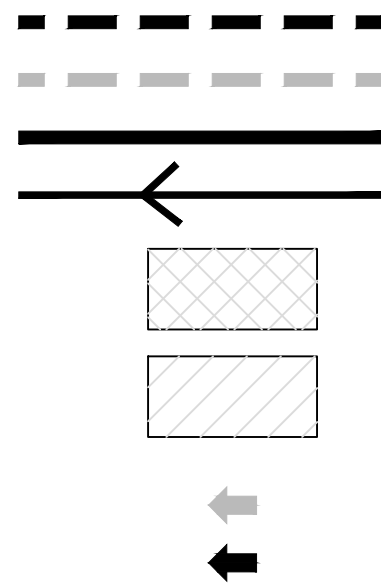
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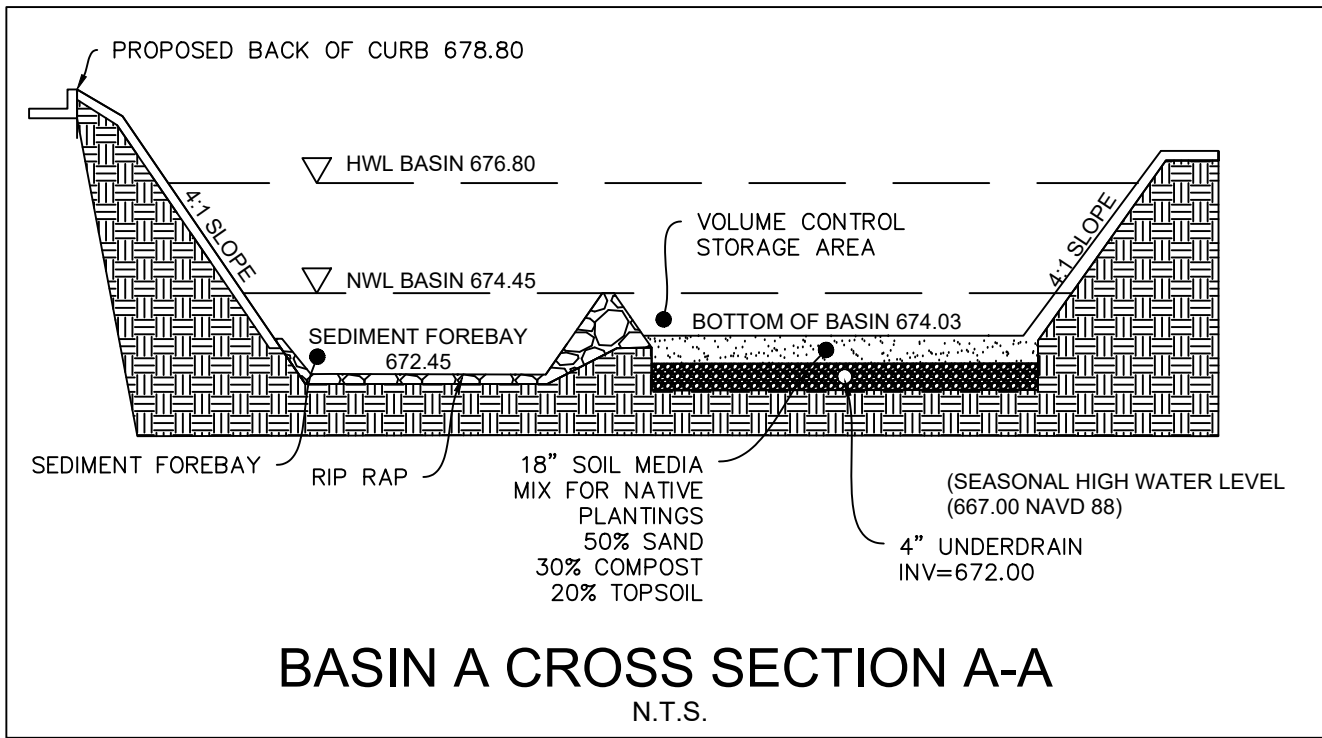
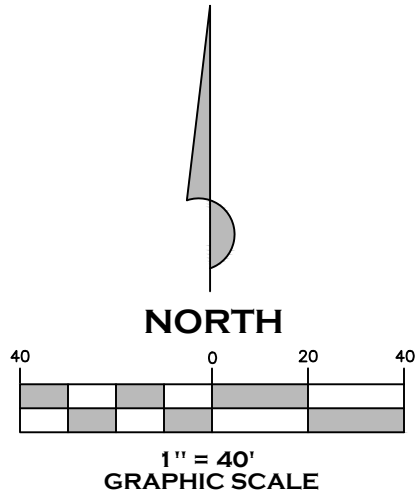
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LEGEND



PR. DRAINAGE AREA PERIMETER
EX. DRAINAGE AREA PERIMETER
DEVELOPMENT AREA
TIME OF CONCENTRATION
PERVIOUS AREA
IMPERVIOUS AREA
EX. OVERLAND FLOOD ROUTE
PR. OVERLAND FLOOD ROUTE



SUMMARY	
TOTAL PROPERTY OWNERSHIP	= 3.38 AC
TOTAL DEVELOPMENT AREA	= 0.97 AC
PROPOSED PERVIOUS AREA	= 0.37 AC
PROPOSED IMPERVIOUS AREA	= 0.46 AC
PROPOSED POND AREA	= 0.14 AC
(100 YEAR 24 HR EVENT SUBTRACTED FROM ALLOWABLE RELEASE)	
PR. AREA A	= 2.72 AC
PROPOSED PERVIOUS AREA	= 1.09 AC
PROPOSED IMPERVIOUS AREA	= 1.49 AC
PROPOSED POND AREA	= 0.14 AC
CURVE NUMBER CALCULATIONS	
BASIN A	
CN TRIBUTARY TO BASIN A	= 89.13
ADJUSTED CN	= 79.49
TIME OF CONCENTRATION CALCULATIONS	
BASIN A	
MAX FLOW LENGTH USED	= 362 FT
TC	= 4.25 MIN (ASSUME 5 MIN)
DEVELOPMENT AND RETENTION SUMMARY	
BASIN A	
TOTAL DEVELOPMENT AREA	= 0.97 AC
HWL = 676.80	
NWL = 674.45	
BOTTOM = 671.28	
DETENTION REQUIRED	= 0.32 AC-FT
EX. DETENTION PROVIDED	= 0.12 AC-FT
DETENTION PROVIDED	= 0.44 AC-FT
VOLUME CONTROL REQUIRED	= 0.050 AC-FT
VOLUME CONTROL PROVIDED	= 0.094 AC-FT

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TIMBER RIDGE SCHOOL ADDITION
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MWRD EXHIBIT

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