# GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

# CLOSING REGULATORS 012 & 020

## **GNHWPCA BOARD OF DIRECTORS**

Chairman Stephen A. Mongillo, Hamden
Vice Chairman Alphonse E. Paolillo, Jr., New Haven
Joyce Alton, New Haven
Michael Fimiani, New Haven
Clayton M. Williams, New Haven
Robert Nastri, East Haven
Robert Falcigno, East Haven
Russell N. Cyr, Hamden
Jeffery D. Ginzberg, Esq., Woodbridge

## **EXECUTIVE DIRECTOR**

Sidney J. Holbrook

## DIRECTOR OF FINANCE AND ADMINISTRATION

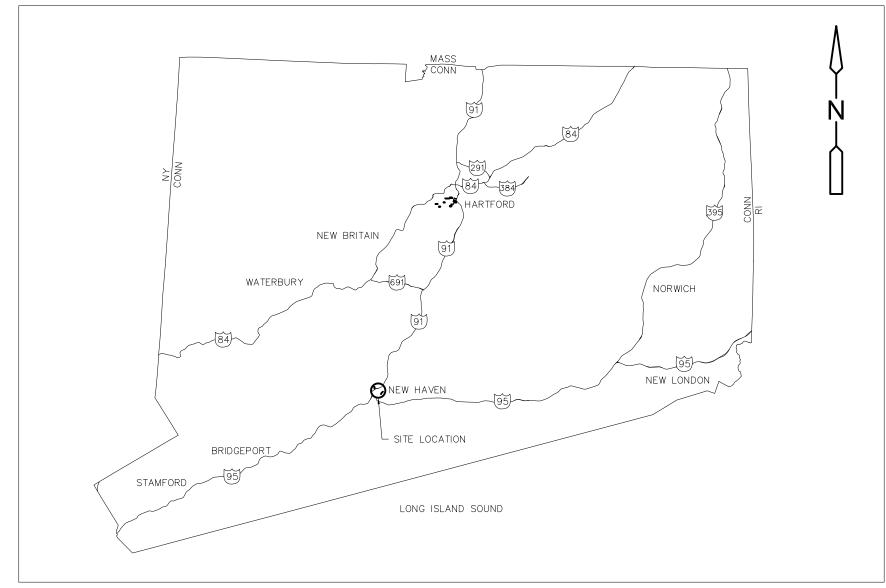
Gabriel Varca

### DIRECTOR OF ENGINEERING

Thomas V. Sgroi, P.E.

### **DIRECTOR OF OPERATIONS**

Gary Zrelak



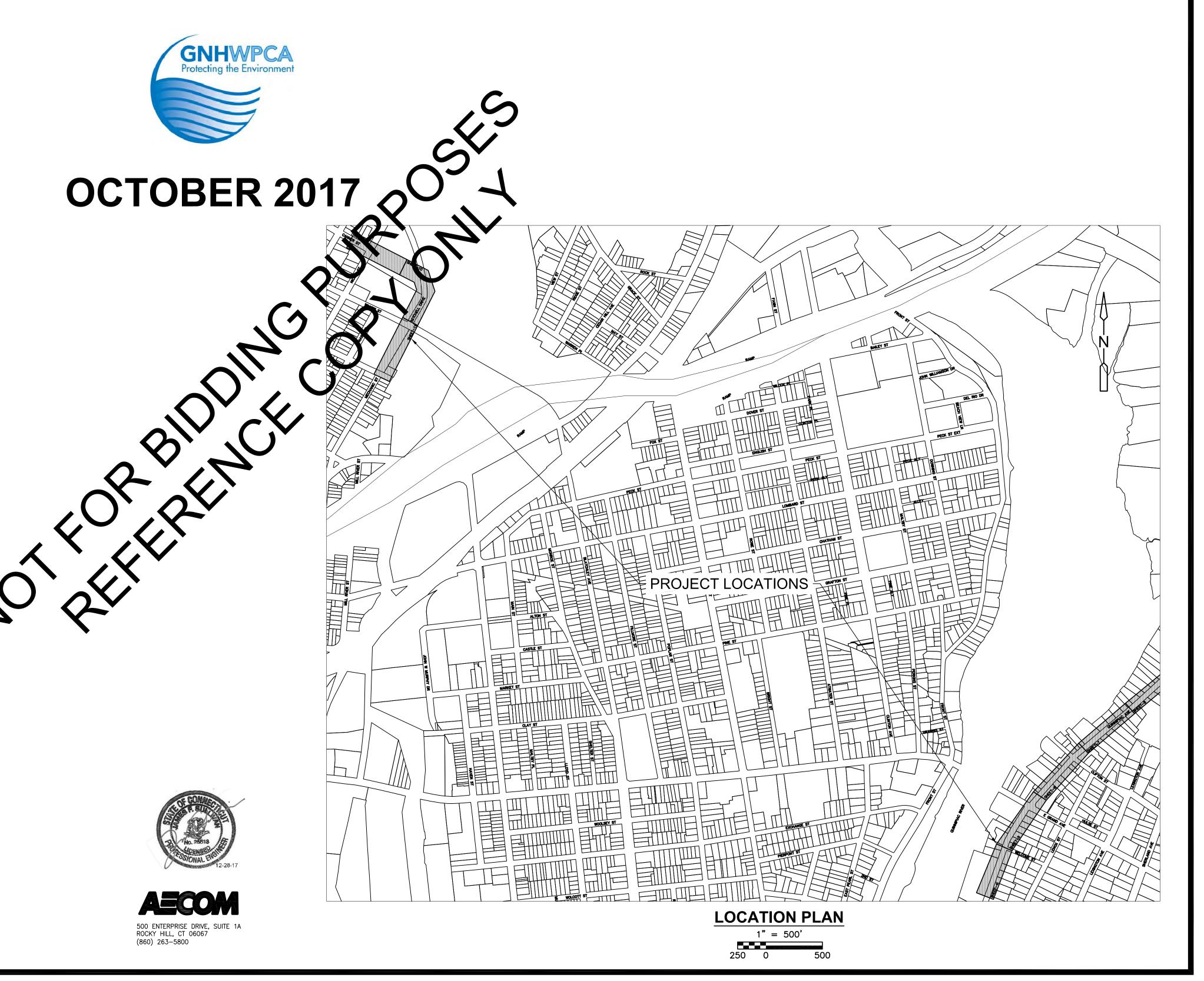
VICINITY PLAN

1" = 4MI

SCALE IN MILES

2 0 4

CWF 2016-02



# **INDEX OF DRAWINGS**

#### SHEET NO. TITLE

#### **GENERAL**

DTES, LEGENDS ABBREVIATIONS AND KEY MAPS

REGULATOR 012 - CIPP LINING AND MANHOLE REHABILITATION STA 0+00 TO 3+00

REGULATOR 012 - CIPP LINING AND MANHOLE REHABILITATION STA 3+00 TO 8+50 REGULATOR 012 - CIPP LINING AND MANHOLE REHABILITATION STA 8+50 TO 9+65

GNHWPCA STANDARD DETAILS SHEEET 1 OF 2 GNHWPCA STANDARD DETAILS SHEEET 2 OF 2

CITY OF NEW HAVEN STANDARD DETAILS 1 OF 3

CITY OF NEW HAVEN STANDARD DETAILS 2 OF 3 CITY OF NEW HAVEN STANDARD DETAILS 3 OF 3

MISCELLANEOUS DETAILS 1 OF 2

MISCELLANEOUS DETAILS 2 OF 2

#### MAINTENANCE AND PROTECTION OF TRAFFIC

MAINTENANCE & PROTECTION OF TRAFFIC GENERAL NOTES & SIGN LEGEND

MAINTENANCE & PROTECTION OF TRAFFIC - NICOLL ST., CANNER ST., & MITCHELL DR.

MAINTENANCE & PROTECTION OF TRAFFIC - QUINNIPIAC AVE-1

MAINTENANCE & PROTECTION OF TRAFFIC - QUINNIPIAC AVE-2 22 MAINTENANCE & PROTECTION OF TRAFFIC - QUINNIPIAC AVE-3

23 24 CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

25 MAINTENANCE & PROTECTION OF TRAFFIC DETAILS

DESIGNED BY: S. GANESH   DRAWN BY: G. SMITH   SHEET CHK'D BY: R. BERLAND   CROSS CHK'D BY: S. GANESH   CROSS CHK'D BY: S. GANESH   APPROVED BY: J.SULLIVAN   DATE: OCTOBER 2017					
REV. DATE DRIVE CHICK DEPARTS OF THE PRIVATE OF THE					DESIGNED BY: S. GANESH
SHEET CHK'D BY: R. BERLAND  CROSS CHK'D BY: S. GANESH  APPROVED BY: J.SULLIVAN					
REV. DATE DRIVIN CHIED DEMARKS					
REV. DATE DRIVIN CUICD DEMARKS					
REV.   DATE   DDWN   CHKD   DEMARKS					
	REV. NO.	DATE	DRWN	CHKD	







CONTRACT NO. CWF-2016-02 CLOSING REGULATORS 012 & 020 INDEX OF DRAWINGS

FILE NAME: G2.DWG SHEET NO. SCALE:

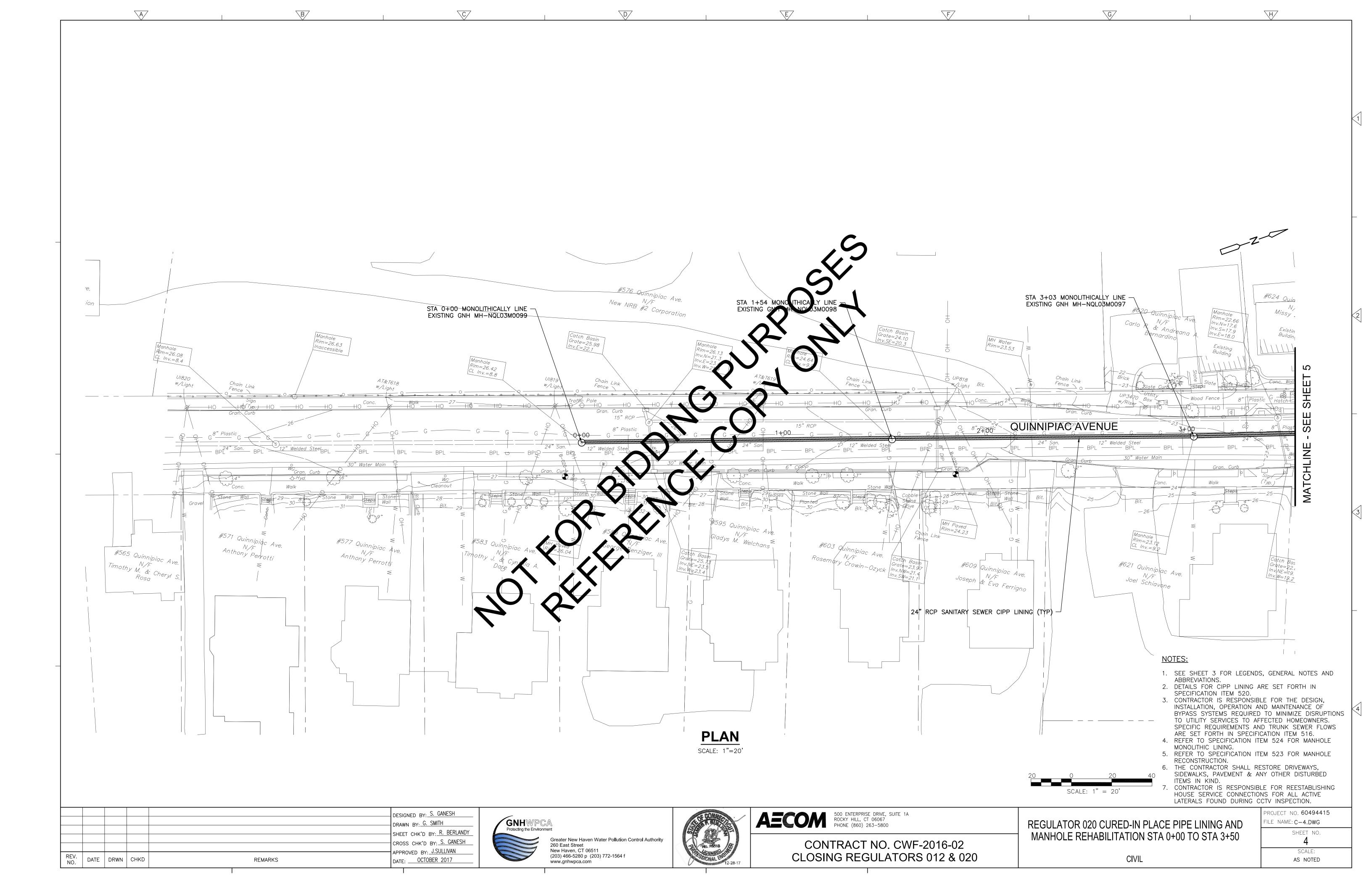
PROJECT NO. 60494415

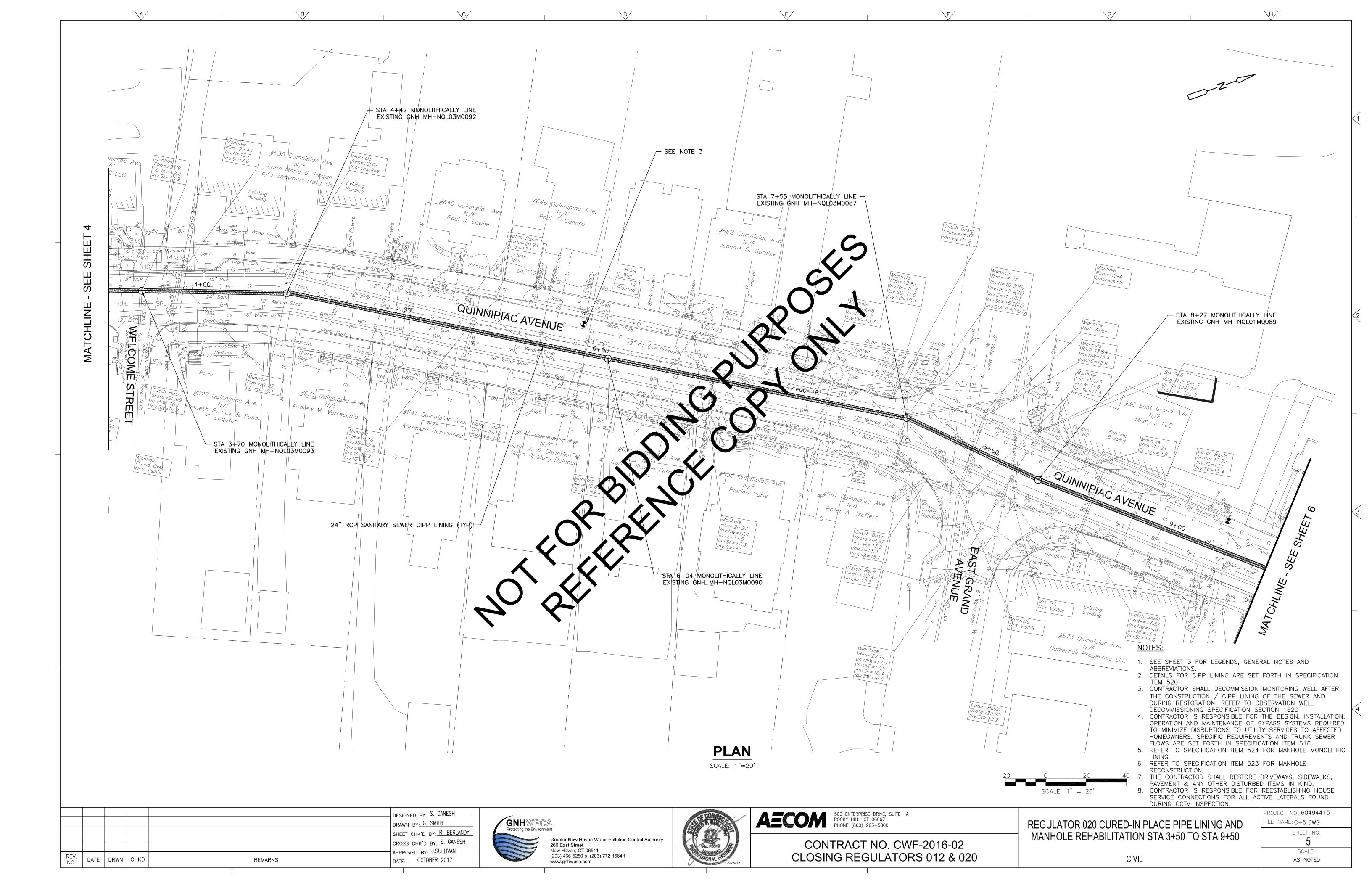
**GENERAL** 

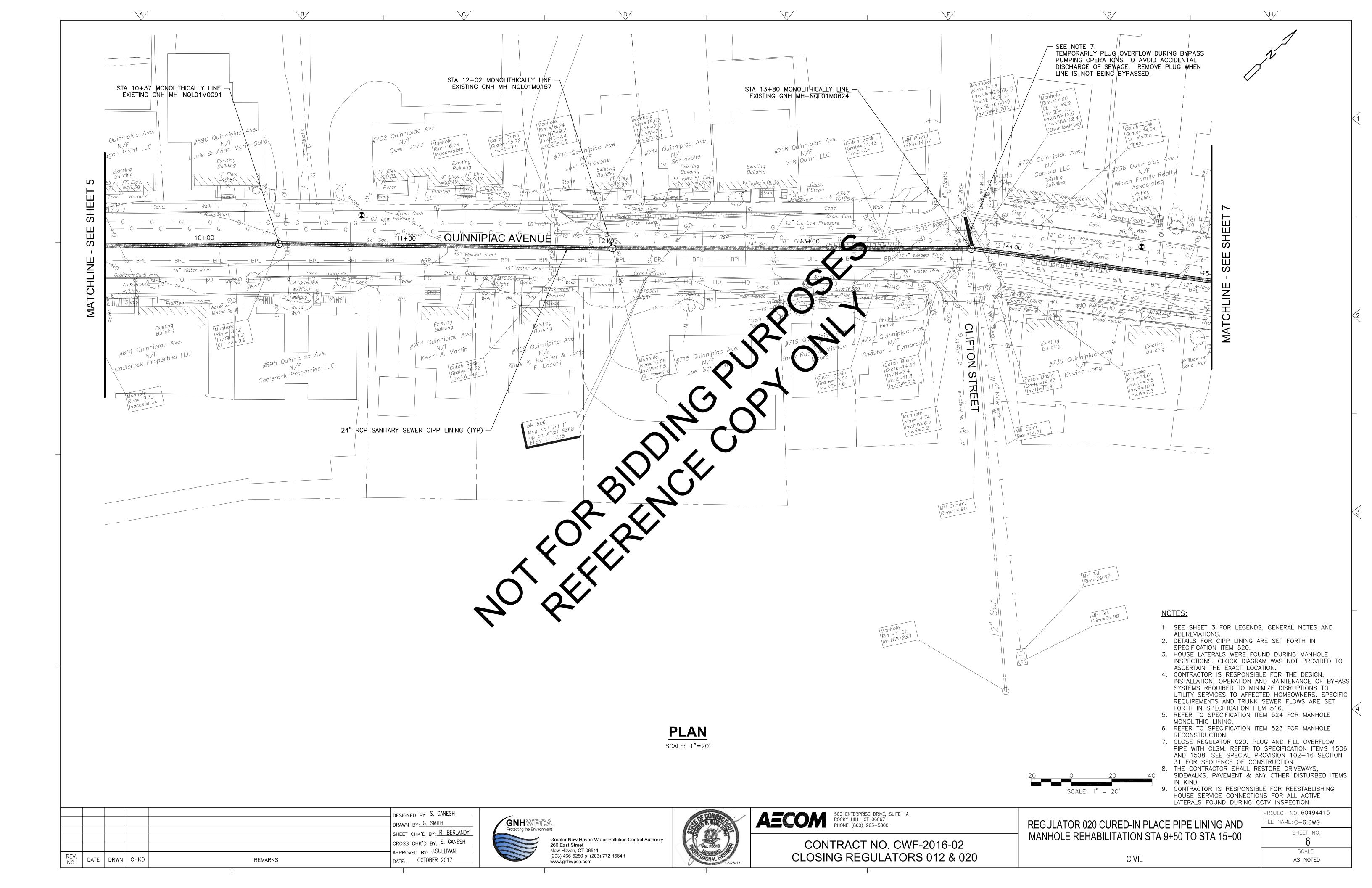
NOT TO SCALE

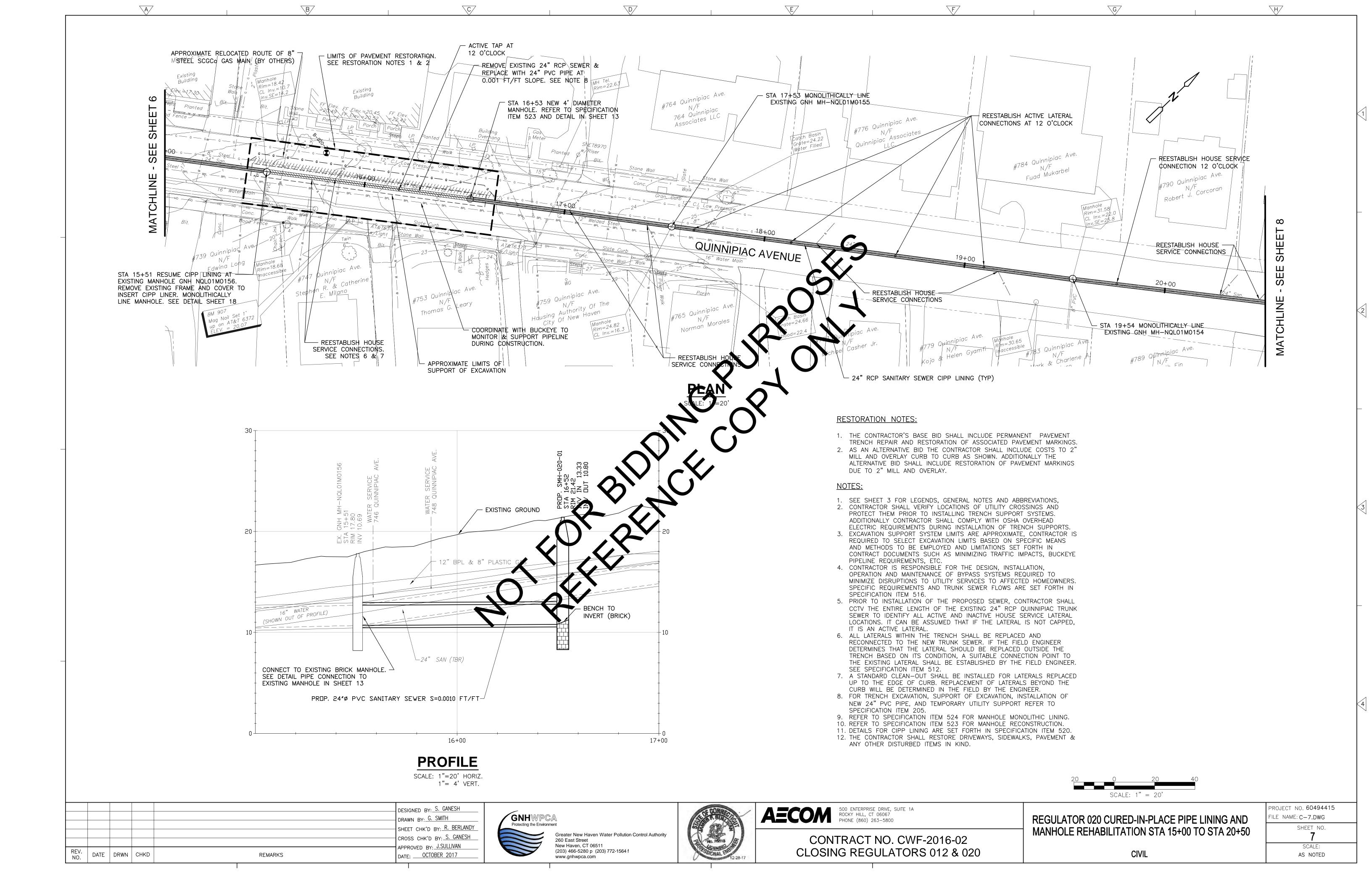
DATE: OCTOBER 2017

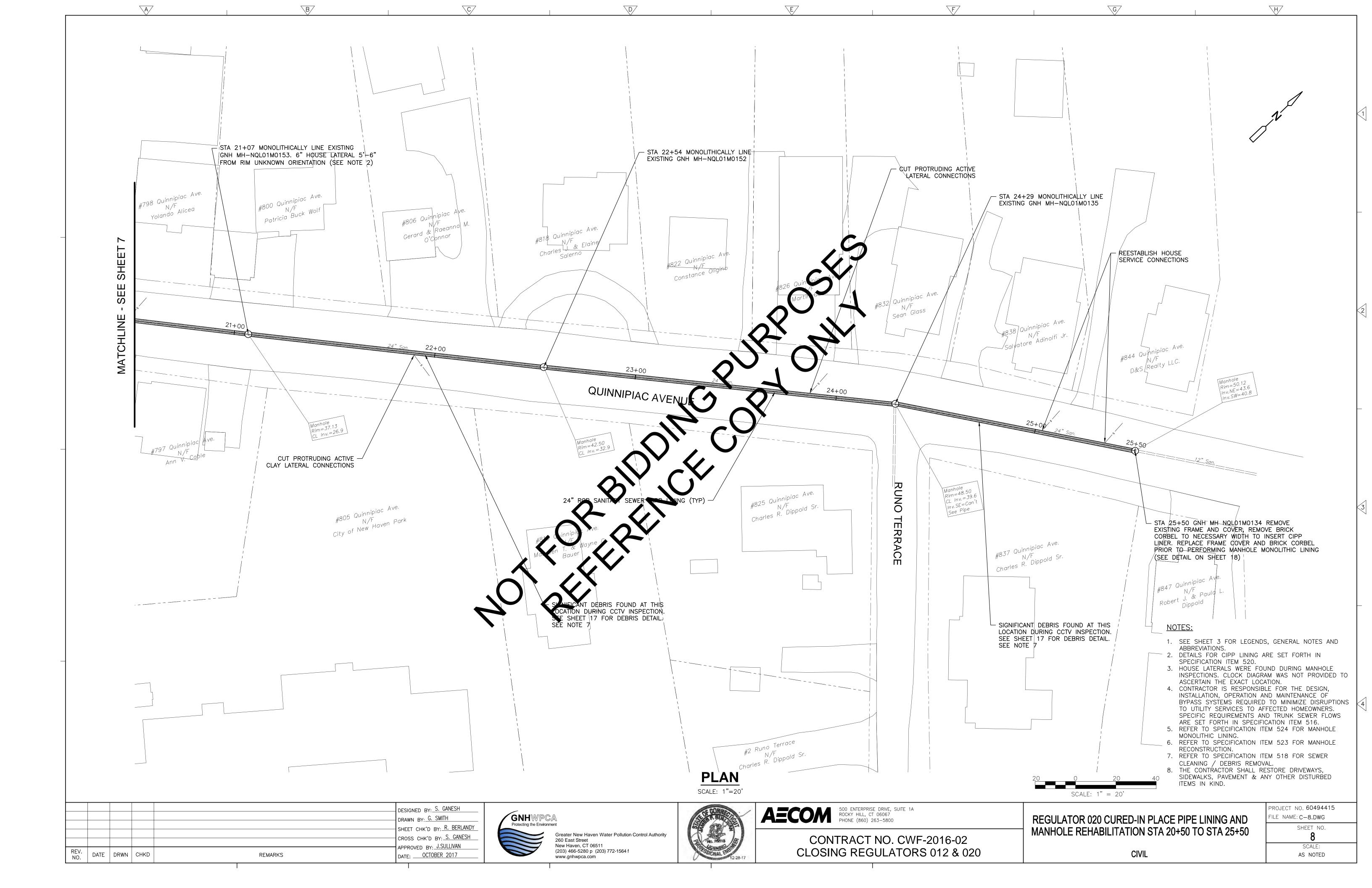
www.gnhwpca.com

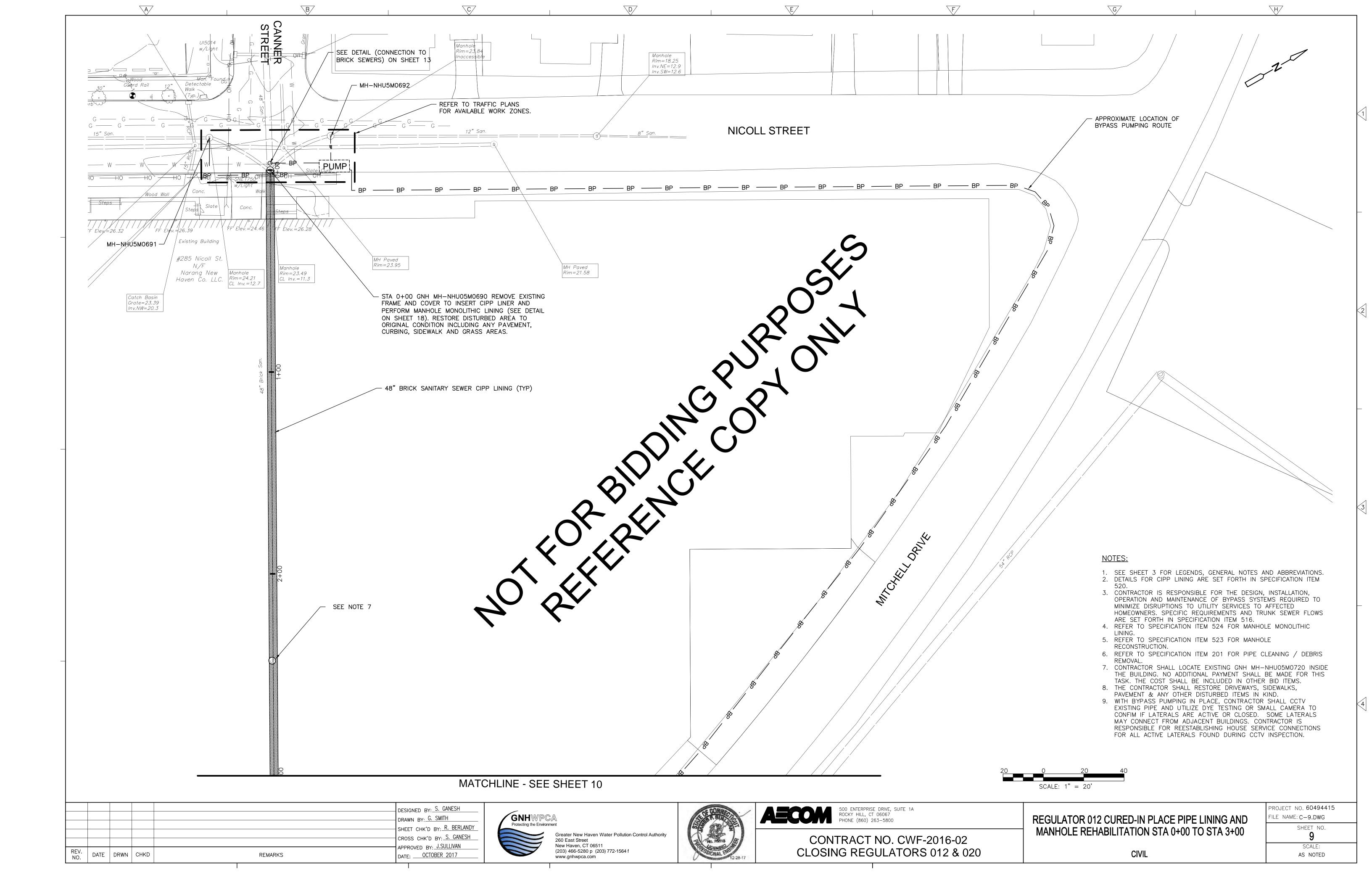


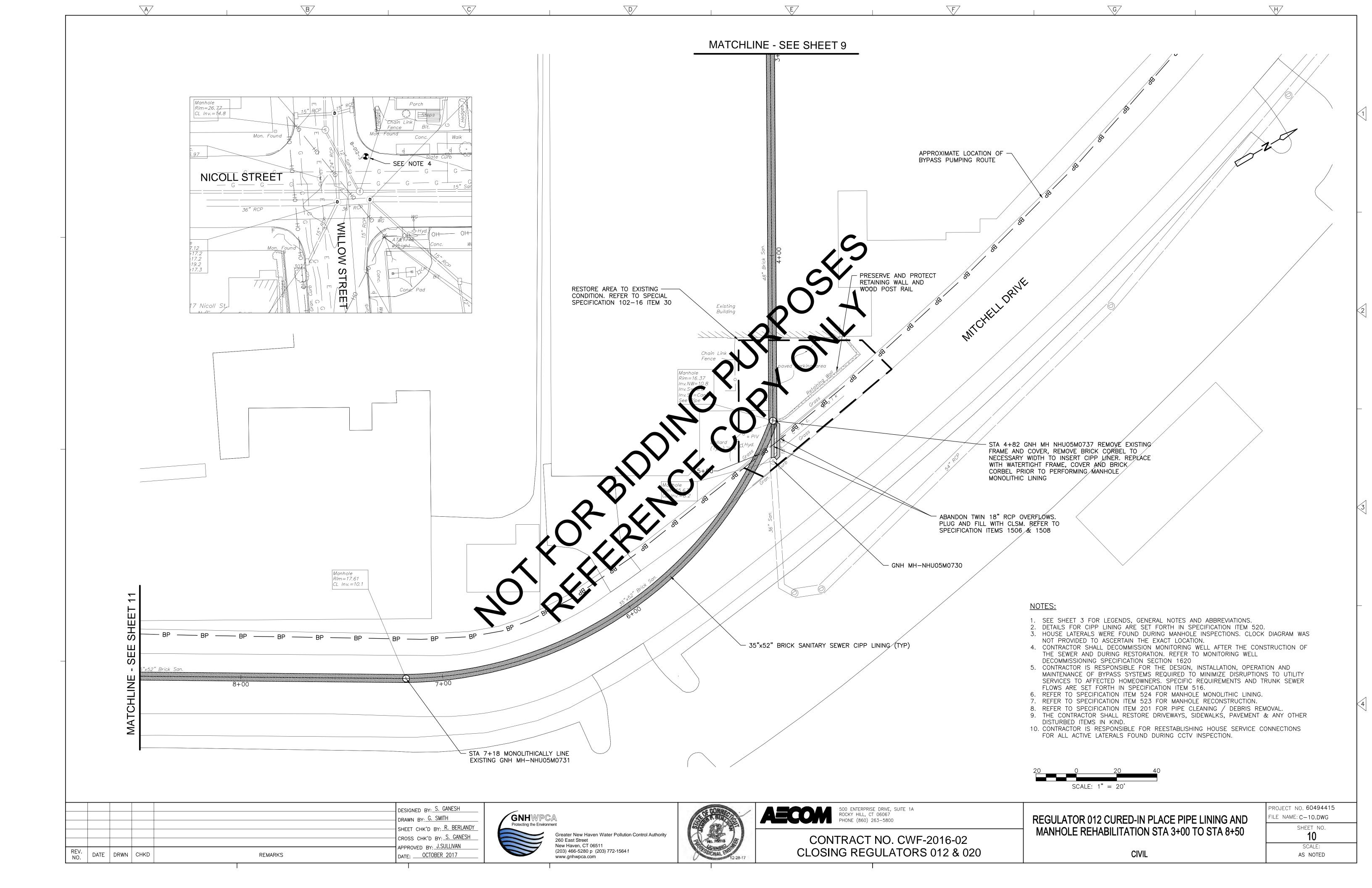


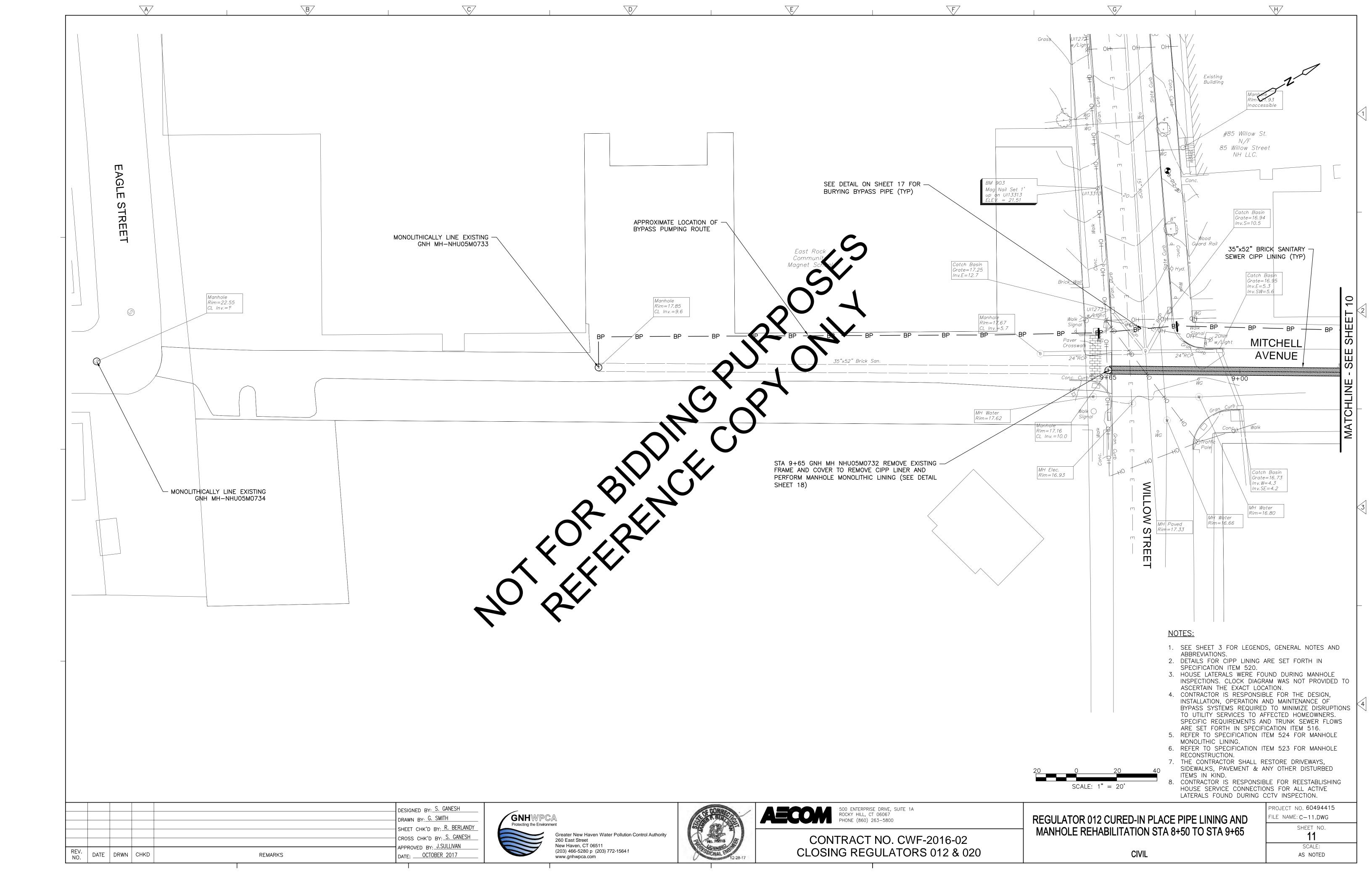


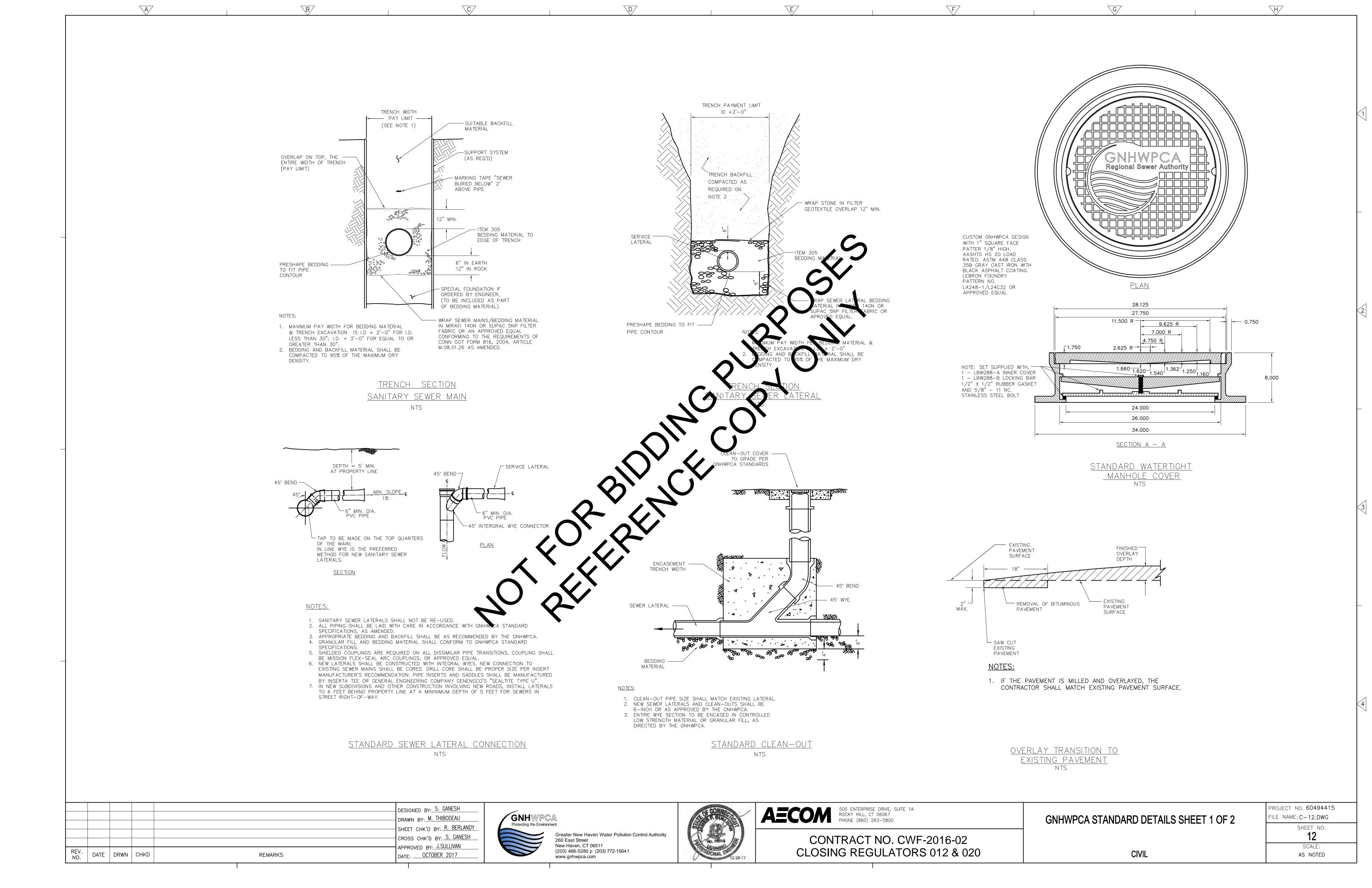


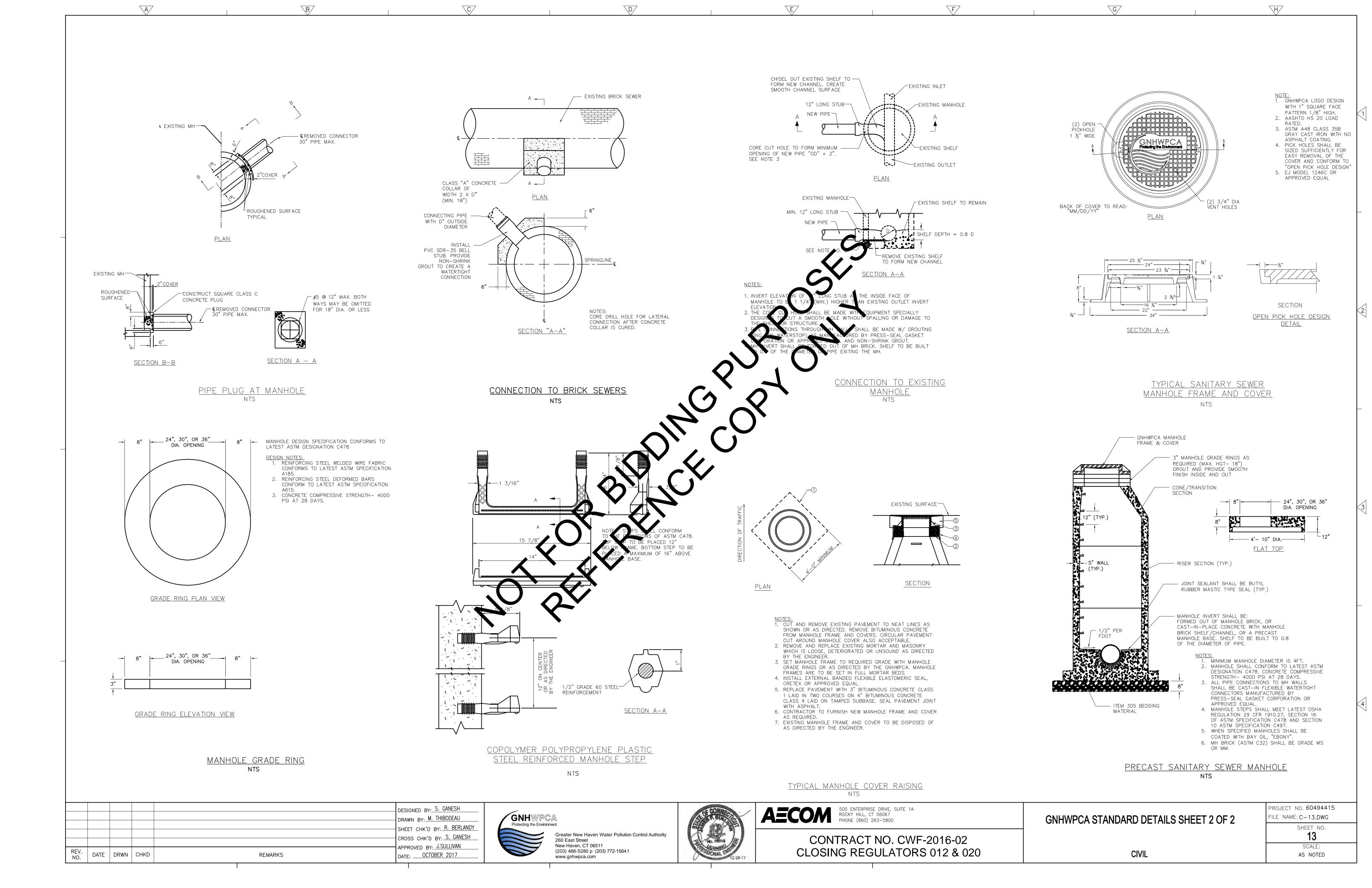


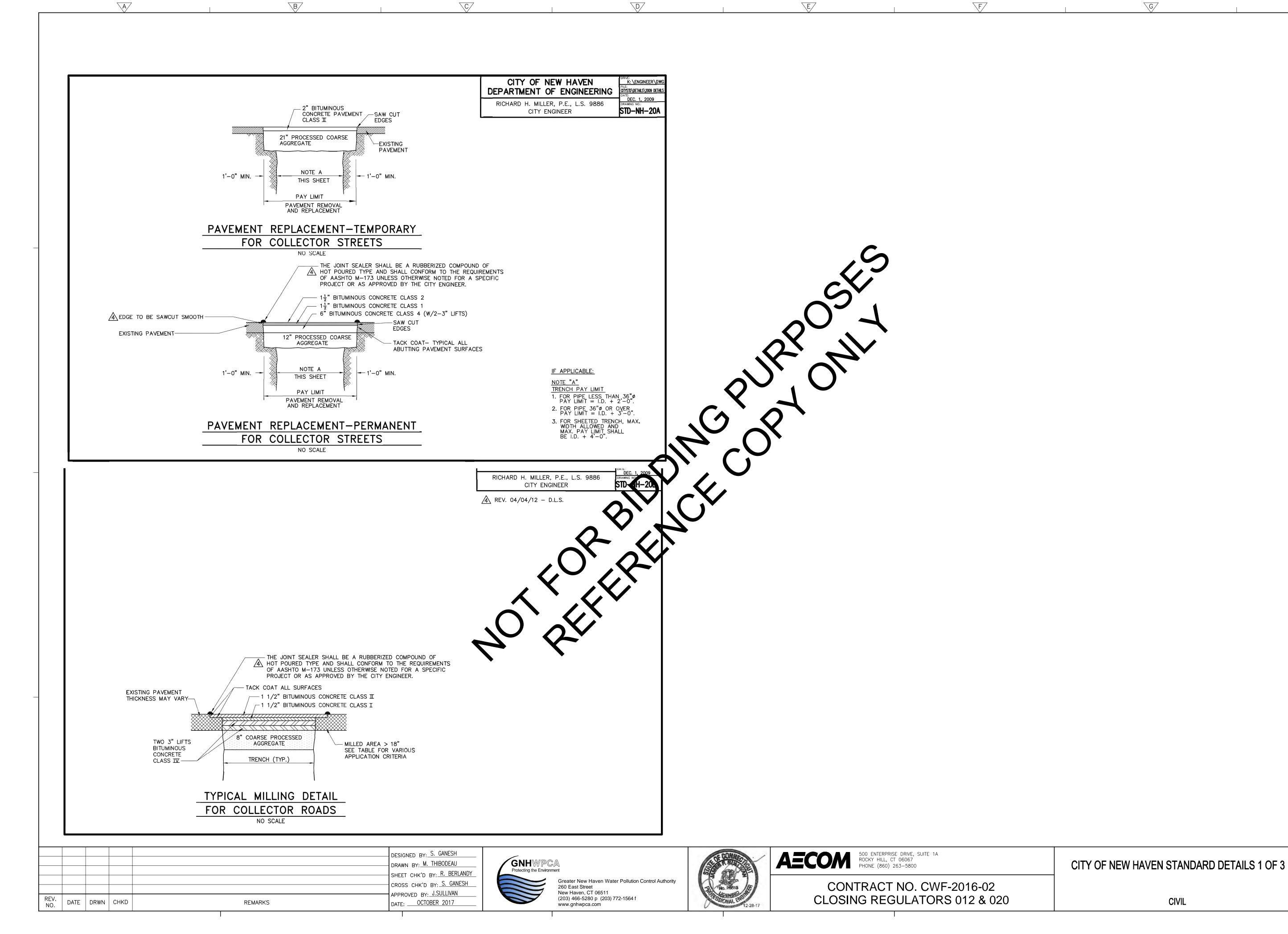












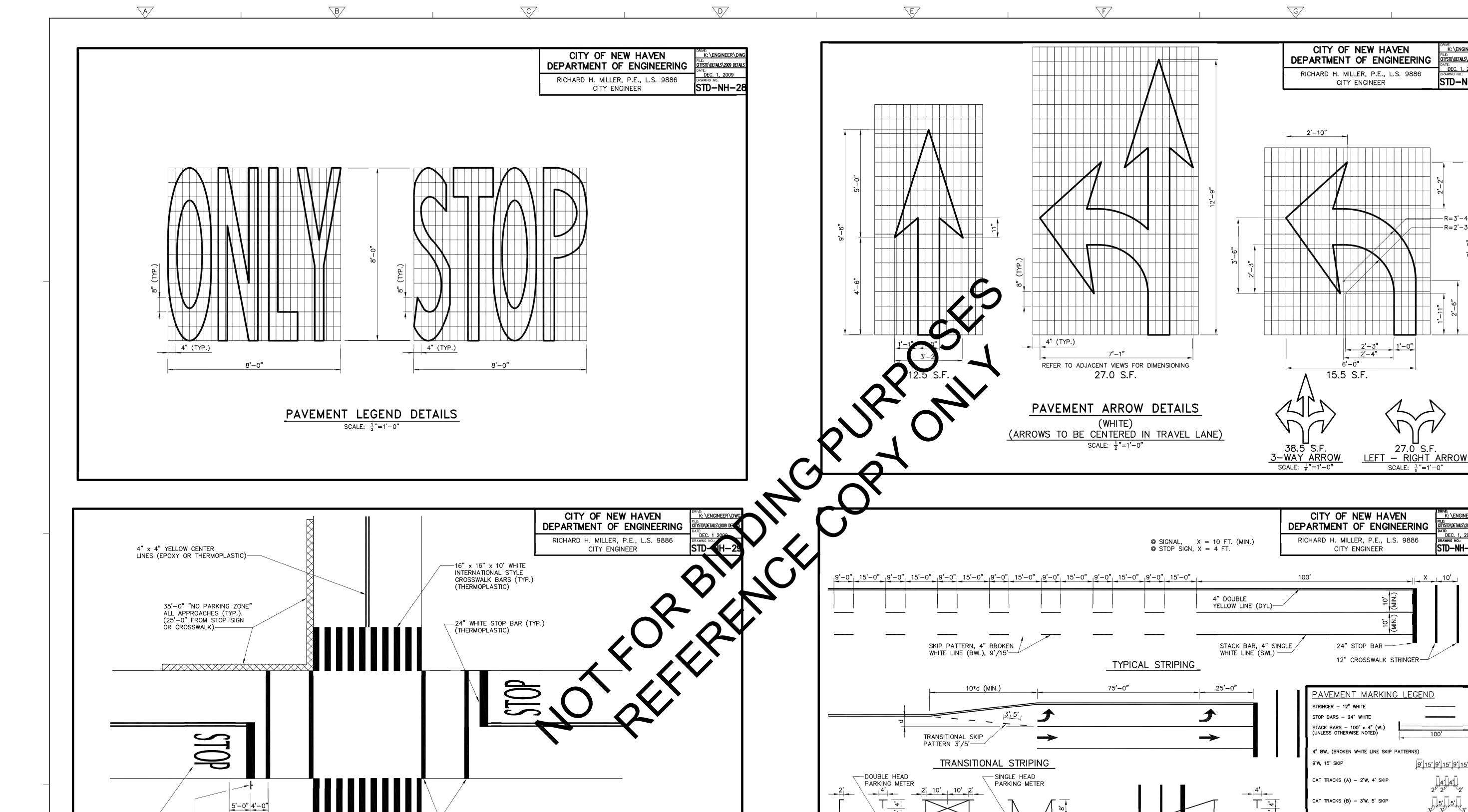
PROJECT NO. 60494415

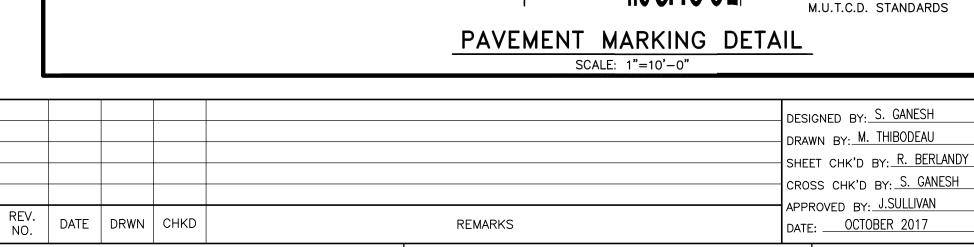
SHEET NO.

SCALE:

AS NOTED

FILE NAME: C-14.DWG





-"STOP" LEGEND REQUIRED AT ALL STOP LOCATIONS

(LEGEND FACES TRAFFIC)

(THERMOPLASTIC)
LEGENDS TO COMPLY WITH
M.U.T.C.D. STANDARDS



12" WHITE STRINGER

STRINGERS (TYP.)

(THERMOPLASTIC)

TYPE CROSSWALK BAR

AT SCHOOL CROSSING

THERMOPLASTIC)

(LEGEND FACES TRAFFIC)

LEGENDS TO COMPLY WITH

10'-0" SPACING BETWEEN

"SCHOOL" LEGEND REQUIRED

Greater New Haven Water Pollution Control Authority 260 East Street New Haven, CT 06511 (203) 466-5280 p (203) 772-1564 f www.gnhwpca.com

1. INTERNATIONAL STYLE BARS USED ON OPEN (FREE FLOW) ROADWAY LEGS ONLY.

2. STRINGER TYPE BARS USED AT ALL STOP OR

3. THERMOPLASTIC MARKINGS, MINIMUM 90 MIL.

HOT APPLIED MATERIAL PER SPECIFICATION.

SIGNAL CONTROLLED ROADWAY LEGS.

4. EPOXY MARKINGS, MINIMUM 15 MIL. PER

SPECIFICATION.



500 ENTERPRISE DRIVE, SUITE 1A ROCKY HILL, CT 06067 PHONE (860) 263-5800

HYDŘANT

ON STREET PARKING SPACES

CONTRACT NO. CWF-2016-02 CLOSING REGULATORS 012 & 020

DRIVE-/

VARIES

25'-0"

TYPICAL PAVEMENT MARKING DETAILS

SCALE: 1"=20'-0"

PARKING SPACES -

CORNER TREATMENT

CITY OF NEW HAVEN STANDARD DETAILS 2 OF 3

CIVIL

PROJECT NO. 60494415 ILE NAME: C-15.DWG SHEET NO. SCALE: AS NOTED

K: \ENGINEER\DWG

CITYSTD\DETAILS\2009 DETAILS

STD-NH-27

K:\ENGINEER\DW

CITYSTD\DETAILS\2009 DETAILS

DEC. 1, 2009
| DRAWING NO.:
| STD-NH-29A

9' 15' 9' 15' 9' 15' 9'

2' 2' 2'

3' 3' 3'

CENTERLINE ( Q ) - 4"YELLOW × 4"YELLOW

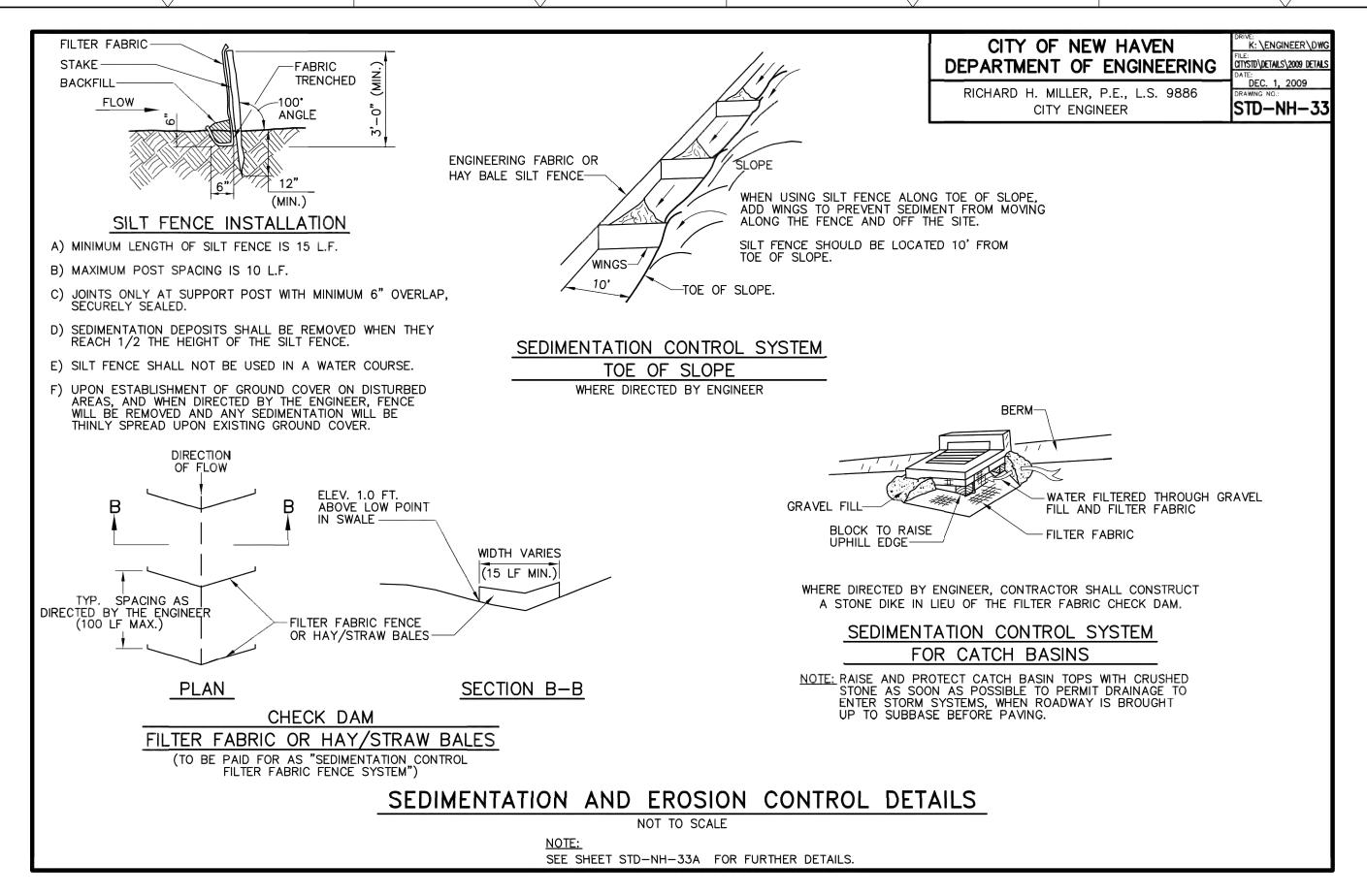
LAYOUT OF PAVEMENT MARKINGS MUST BE APPROVED BY THE DEPARTMENT OF TRAFFIC AND PARKING PRIOR TO APPLICATION

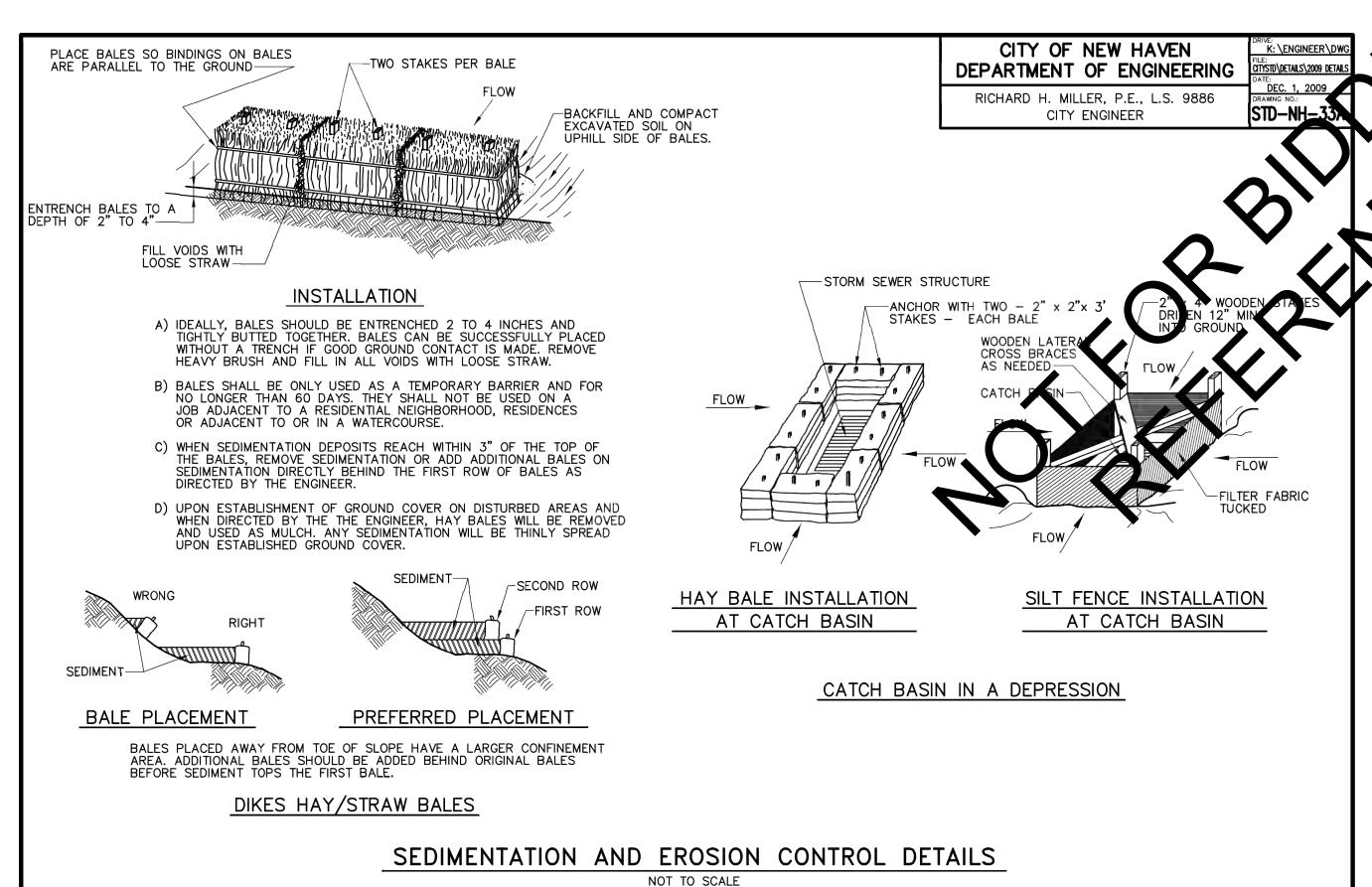
2. ALL LONG LINE PAVEMENT MARKING SHALL BE 15 MIL EPOXY RESIN.

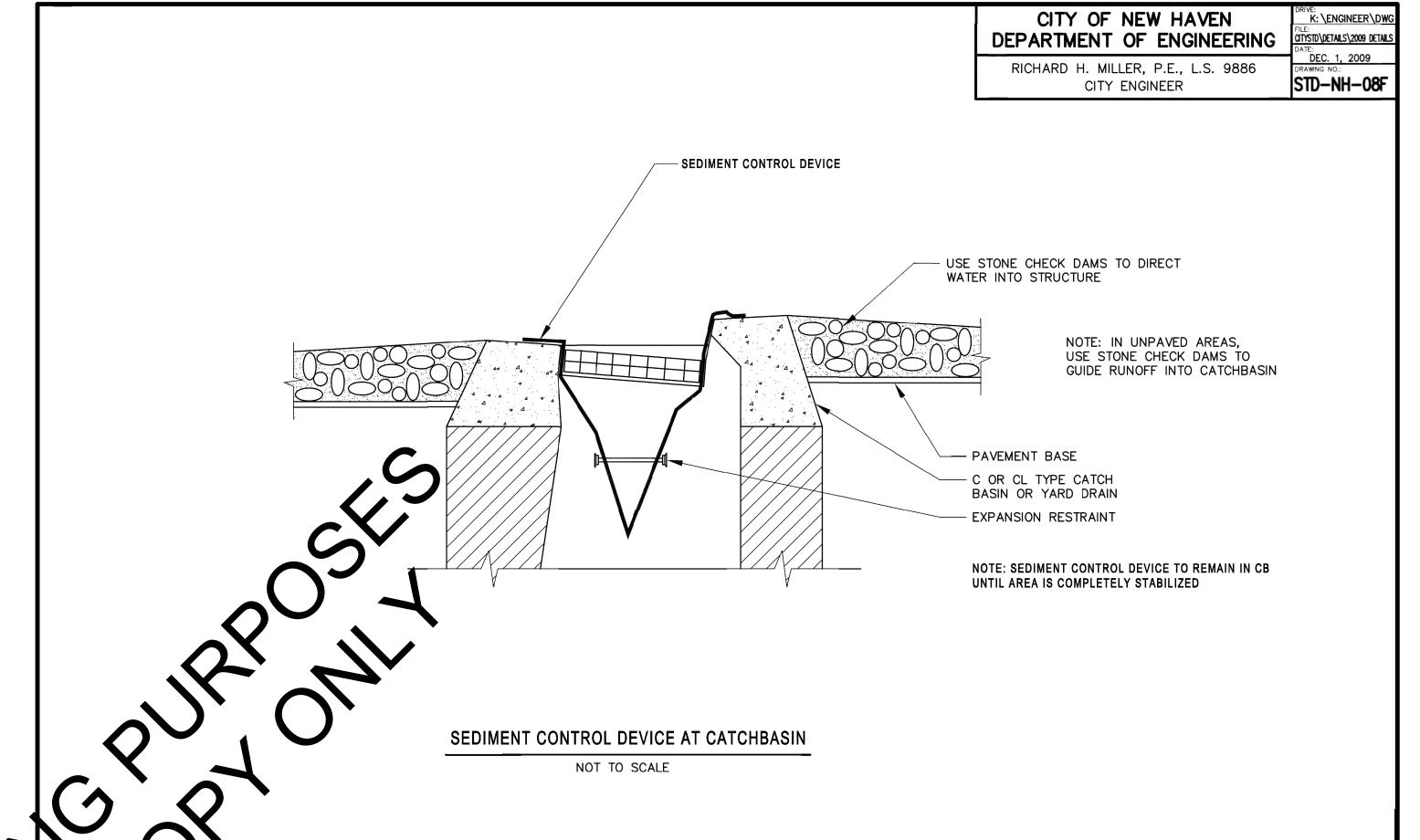
3. ALL INTERSECTION TYPE PAVEMENT MARKINGS SHALL BE 90 MIL THERMOPLASTIC. THIS INCLUDES STOP BARS, ARROWS AND LEGENDS.

EDGE LINE - 4"YELLOW OR 4" WHITE

OF PERMANENT MARKINGS.







	·			DESIGNED BY: S. GANESH
				DRAWN BY: M. THIBODEAU
				SHEET CHK'D BY: R. BERLANDY
				CROSS CHK'D BY: S. GANESH
				APPROVED BY: J.SULLIVAN
REV. NO.	DATE	DRWN	CHKD	DATE: OCTOBER 2017





<b>AECOM</b>	500 ENTERPRISE DRIVE, SUITE 1 ROCKY HILL, CT 06067 PHONE (860) 263-5800

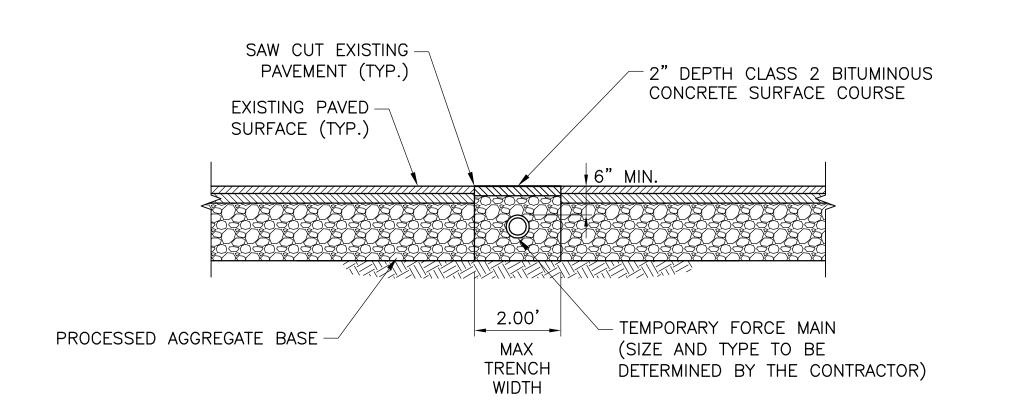
CONTRACT NO. CWF-2016-02 CLOSING REGULATORS 012 & 020

CITY OF		LIAN/ENI C	STANDARD	DETAILS	2 OE 2
	INEAA	$\square$ $\bowtie$ $\lor$ $\bowtie$ $\lor$	DIANUARU	DEIAILO	JULJ

FILE NAME: C-16.DWG SHEET NO. SCALE: AS NOTED

CIVIL

PROJECT NO. 60494415



BURIED TEMPORARY PIPING DETAIL

NOT TO SCALE

NOTES:

1. LAY FLAT HOSE WILL BE ALLOWED FOR DRIVEWAY CROSSINGS
AS LONG AS ACCESS IS MAINTAINED

32. 2016 59'12"

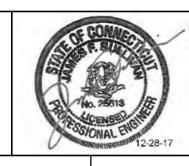
09.02.2016) 59'06"

DEBRIS BETWEEN MH-NQL01M0134 & MH-NQL01M0135

DEBRIS BETWEEN MH-NQL01M0152 & MH-NQL01M0153

				DESIGNED BY: S. GANESH  DRAWN BY: G. SMITH  SHEET CHK'D BY: R. BERLANDY	
				CROSS CHK'D BY: S. GANESH	
				APPROVED BY: J.SULLIVAN	
REV. NO.	DATE	DRWN	CHKD	DATE: OCTOBER 2017	

Greater New Haven Water Pollution Control Authority 260 East Street New Haven, CT 06511 (203) 466-5280 p (203) 772-1564 f www.gnhwpca.com	GNHWPC Protecting the Environ	
		260 East Street New Haven, CT 06511 (203) 466-5280 p (203) 772-1564 f



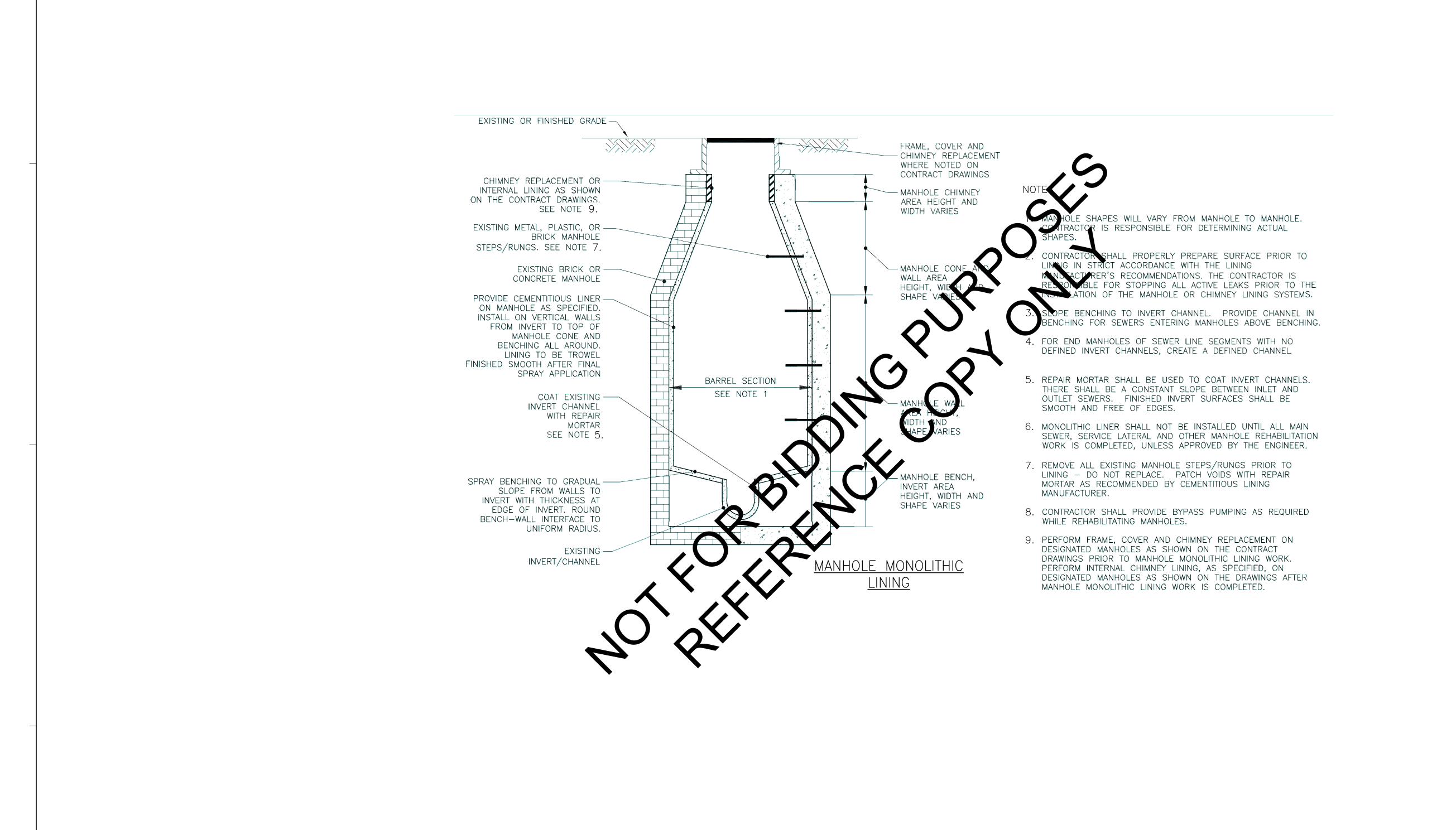
AEC	MO	500 ENTERPRISE DRIVE, SUITE 1A ROCKY HILL, CT 06067 PHONE (860) 263—5800

CONTRACT NO. CWF-2016-02
CLOSING REGULATORS 012 & 020

FILE NAME: C-17.DWG
SHEET NO.
17
SCALE:
AS NOTED

PROJECT NO. 60494415

CIVIL



DESIGNED BY: S. GANESH 500 ENTERPRISE DRIVE, SUITE 1A ROCKY HILL, CT 06067 PHONE (860) 263-5800 PROJECT NO. 60494415 GNHWPCA Protecting the Environment FILE NAME: C-18.DWG DRAWN BY: M. THIBODEAU MISCELLANEOUS DETAILS 2 OF 2 SHEET CHK'D BY: R. BERLANDY SHEET NO. Greater New Haven Water Pollution Control Authority 260 East Street New Haven, CT 06511 CROSS CHK'D BY: S. GANESH CONTRACT NO. CWF-2016-02 APPROVED BY: J.SULLIVAN SCALE: CLOSING REGULATORS 012 & 020 REV. DATE DRWN CHKD (203) 466-5280 p (203) 772-1564 f CIVIL REMARKS AS NOTED DATE: OCTOBER 2017 www.gnhwpca.com

#### MAINTENANCE AND PROTECTION OF TRAFFIC - GENERAL NOTES

- 1. MAINTENANCE AND PROTECTION OF TRAFFIC PLANS SHOWN HEREIN ARE FOR GUIDANCE AND DEPICT THE MINIMUM REQUIREMENTS. ALL SIGNS AND DEVICES MAY NOT BE SHOWN. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE ALL SIGNS, DEVICES AND OTHER APPURTENANCES NECESSARY TO MAINTAIN PEDESTRIAN AND VEHICLE TRAFFIC SAFETY THROUGH THE WORK ZONE IN COMPLETE COMPLIANCE WITH ALL CITY OF NEW HAVEN REQUIREMENTS. THERE SHALL BE NO LIMIT TO THE NUMBER OF SIGNS OF THE TYPE SHOWN ON THESE MAINTENANCE AND PROTECTION OF TRAFFIC PLANS, OR TO THE NUMBER OF TRAFFIC CONES, TRAFFIC DRUMS, CONSTRUCTION BARRICADES, ETC. AS SHOWN IN THE PLANS. ALL COSTS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR THE ITEM MAINTENANCE AND PROTECTION OF TRAFFIC. THERE SHALL BE NO ADDITIONAL PAYMENT FOR MAINTENANCE AND PROTECTION OF TRAFFIC WORK SHOWN BUT REQUIRED BY THE CITY, GNHWPCA, OR THE ENGINEER.
- 2. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE CITY OF NEW HAVEN. THE COST OF ALL SIGNS AND PROTECTIVE DEVICES REQUIRED BY ALL PERMITS IS INCLUDED IN THE LUMP SUM PRICE FOR THE ITEM MAINTENANCE AND PROTECTION OF TRAFFIC.
- 3. CONTRACTOR SHALL MODIFY THE TEMPORARY TRAFFIC AT THE DIRECTION OF POLICE INCLUDING RELOCATING TRAFFIC CONTROL DEVICES OR PROVIDING ADDITIONAL TRAFFIC CONTROL DEVICES.
- 4. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION, LATEST REVISION.
- 5. ALLOWABLE WORK ZONE TIMES ARE PER THE PERMITS. WORK HOURS SHALL BE 7:00 AM TO 7:00 PM MONDAY THROUGH FRIDAY UNLESS OTHERWISE SHOWN ON THE PLANS OR PERMIT.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC, AND PARKING TO ESTABLISH AND REVIEW METHODS TO BE UTILIZED FOR THE SAFE PASSAGE OF SCHOOL AGED CHILDREN AND PASSAGE OF SCHOOL BUSES ON STREETS AFFECTED BY WORK UNDER THIS CONTRACT.
- 7. ANY MODIFICATION OF THE MAINTENANCE AND PROTECTION OF TRAFFIC PLANS SHOWN HERE IN SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND APPROVAL BY THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC AND PARKING AT LEAST TEN BUSINESS DAYS IN ADVANCE OF DATE OF MODIFICATION.
- 8. NO MAINTENANCE AND PROTECTION OF TRAFFIC PLAN HAS BEEN INCLUDED FOR SURFACE RESTORATION WORK. CONTRACTOR SHALL SUBMIT A MAINTENANCE AND PROTECTION OF TRAFFIC PLAN IN WRITING TO THE ENGINEER FOR APPROVAL BY THE CITY FOR THIS WORK.
- 9. ALL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. LOCATIONS FOR TEMPORARY SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER SO AS NOT TO CONFLICT WITH EXISTING PERMANENT SIGNS OR SIGNS FOR ANY OTHER CONSTRUCTION ACTIVITY. DO NOT INSTALL DUPLICATE SIGNS WHERE EXISTING CONSTRUCTION SIGNS CURRENTLY EXIST. EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE COVERED OR ADJUSTED TO MEET FIELD CONDITIONS. SIGNS, DRUMS, CONES, BARRICADES, PRECAST CONCRETE BARRIER CURBS AND OTHER TRAFFIC CONTROL DEVICES ARE SHOWN SCHEMATICALLY TO DEPICT THE GENERAL ARRANGEMENT OF THE WORK ZONE AND AREA TRAFFIC PATTERNS. THESE ARE THE MINIMUM AMOUNT ACCEPTABLE. THE CONTRACTOR IS SOLELY RESPONSIBLE TO PROVIDE ALL DEVICES, APPURTENANCES AND ADJUST ALL TRAFFIC CONTROL DEVICES AS REQUIRED TO COMPLY WITH CITY STANDARDS AND MAINTAIN THE SAFETY OF THE WORK ZONE AND PUBLIC. ALL SIGNS SHALL BE COVERED WHEN NOT IN USE AND REMOVED WHEN NO LONGER NEEDED. ALL COSTS ARE INCLUDED IN THE LUMP SUM PRICE FOR THE ITEM "MAINTENANCE AND PROTECTION OF TRAFFIC".
- 10. MAINTAIN 10'MIN. TRAVEL LANES UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER OR POLICE.
- 11. ALL TEMPORARY CONSTRUCTION SIGNS SHALL BE MOUNTED ON EXISTING POLES OR POSTS, INSTALLED IN GRASS AREAS, OR ON PORTABLE SIGN SUPPORTS. SPECIFIC APPROVAL BY THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC AND PARKING IS REQUIRED FOR ALL OTHER SIGN INSTALLATIONS. THE CONTRACTOR SHALL RESTORE CITY FIXTURES AND/OR ASSETS TO PRIOR CONDITION WHEN SIGNS ARE NO LONGER NEEDED.
- 12. NO PERMANENT SIGNS OR PAVEMENT MARKINGS ARE TO BE REMOVED WITHOUT SPECIFIC PERMISSION OF THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC, AND PARKING.
- 13. TEMPORARY PAVEMENT MARKINGS SHALL BE REQUIRED FOR ALL PATTERNS THAT WILL REMAIN IN USE FOR LONGER THAN 24 HOURS. TEMPORARY PAVEMENT MARKINGS AND SYMBOLS SHALL BE PLACED AT LOCATIONS AS SHOWN ON THE PLANS, REQUIRED BY THE CITY PERMIT, AS DIRECTED BY THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC, AND PARKING, OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE PAVEMENT MARKINGS ON TEMPORARY PATCHES PRIOR TO OPENING THE WORK ZONE TO TRAFFIC. THE WORK SHALL INCLUDE PLACING THE TEMPORARY PAVEMENT MARKINGS, REMOVING CONFLICTING PAVEMENT MARKINGS, AND REMOVING TEMPORARY PAVEMENT MARKINGS WHEN NO LONGER REQUIRED, AS DIRECTED BY THE ENGINEER. THE COST IS INCLUDED IN THE RESPECTIVE TEMPORARY PAVEMENT MARKING ITEM
- 14. TEMPORARY SIGNS AND OTHER TEMPORARY TRAFFIC PROTECTIVE DEVICES SHALL REMAIN IN PLACE AS SHOWN THROUGHOUT THE FULL DURATION OF EACH STAGE OF CONSTRUCTION. TRAFFICMEN SHALL BE REQUIRED WHEN DEVICES SHOWN ARE INSTALLED, RELOCATED, OR REMOVED.
- 15. ALL ROAD WORK AHEAD SIGNS INCLUDING SUPPLEMENTAL PLAQUES SHALL BE DISPLAYED AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION.
- 16. NO SIGNAGE SHALL BE PLACED THAT OBSTRUCTS EXISTING SIGNAGE.
- 17. ALL SIGNAGE REMOVED TO ACCOMMODATE CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC, AND PARKING AT THE CONTRACTOR'S EXPENSE.
- 18. CONTRACTOR SHALL PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES. CONTRACTOR SHALL STAGE HIS WORK SO THAT ACCESS IS MAINTAINED TO ALL PROPERTIES, INCLUDING BUSINESSES, AT ALL TIMES. IF DURING CONSTRUCTION, ACCESS TO THE AFFECTED BUSINESSES IS NOT APPARENT, ADDITIONAL SIGNS (i.e. BUSINESS ACCESS) MAY BE REQUIRED BY THE ENGINEER.
- 19. ACCESSIBLE PEDESTRIAN ACCESS THROUGH WORK ZONES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PROTECT AND MAINTAIN SIDEWALKS AND PEDESTRIAN CROSSINGS THAT ARE NOT IDENTIFIED FOR CLOSURE ON THE PLANS. PROVIDE TEMPORARY PEDESTRIAN CROSSINGS AT INTERSECTIONS. A 4'MIN. WIDE SIDEWALK SHALL BE PROVIDED ADJACENT TO WORK ZONES. IF THE CONTRACTOR CAN PROVE THAT IT IS IMPOSSIBLE TO PROVIDE A 4' MIN. SIDEWALK, A NARROWER SIDEWALK CAN BE PROVIDED IF IT MEETS ADA STANDARDS AND IS APPROVED. IN WRITING, BY THE ENGINEER. A SAFETY FENCE SHALL SEPARATE PEDESTRIAN TRAFFIC FROM ALL TRENCHES AND ACTIVE WORK ZONES. THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE ENGINEER FOR APPROVAL BY THE CITY MAINTENANCE AND PROTECTION OF TRAFFIC PLANS FOR MAINTAINING PEDESTRIAN TRAFFIC AT SIDEWALKS AND CROSSWALKS, INCLUDING DETOURS IF REQUIRED, FOR AREAS NOT SHOWN ON THE PLANS. THE COST IS INCLUDED IN THE ITEM MAINTENANCE AND PROTECTION OF TRAFFIC.
- 20. CONTRACTOR SHALL MAINTAIN TRAFFIC SIGNALS AT ALL TIMES. MODIFICATIONS TO THE EXISTING TRAFFIC SIGNALS, INCLUDING BUT NOT LIMITED TO TIMING, SEQUENCING, HEAD LOCATION, CAMERA LOCATION OR ADJUSTMENT, ETC. SHALL BE PERFORMED AS APPROVED BY THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC, AND PARKING. THE WORK SHALL BE PAID UNDER THE ITEM "TRAFFIC SIGNAL SUBCONTRACTOR TIMING ADJUSTMENT".
- 21. CONTRACTOR SHALL INSTALL NEW TRAFFIC DETECTOR LOOPS WHERE EXISTING LOOPS ARE REMOVED OR DAMAGED DURING CONSTRUCTION. TEMPORARY LOOPS MAYBE REQUIRED. ALL WORK SHALL BE PERFORMED AS REQUIRED BY THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC, AND PARKING. THE COST SHALL BE INCLUDED IN THE ITEM "MAINTENANCE AND PROTECTION OF TRAFFIC".
- 22. CONTRACTOR SHALL PROVIDE A PHOTOLOG OF THE PROPOSED WORK AREA WHICH SHALL INCLUDE EXISTING RIGHT-OF ELEMENTS INCLUDING SIGNS, SIGNALS, WALK LIGHTS, PAVEMENT MARKINGS, BUS SHELTERS, ETC. AT THE TIME OF THE PERMIT APPLICATION. SUCH PHOTOLOG SHALL BE PROVIDED IN THE FORMAT OF A SINGLE, MULTIPAGE .PDF FILE.

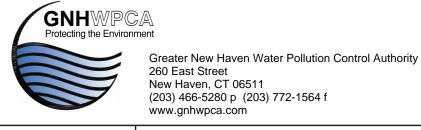
- 24. UPON COMPLETION OF THE PROJECT OR AS SOON AS MAJOR WORK IN THE AREA IS COMPLETED, ALL EXISTING SIGNS AND PAVEMENT MARKINGS WHICH ARE REMOVED IN ADVANCE OF STAGE CONSTRUCTION SHALL BE RE-ESTABLISHED AS DIRECTED BY THE ENGINEER. PERMANENT PAVEMENT MARKINGS SHALL BE OF THE SAME TYPE AND SIZE WHICH EXISTED PRIOR TO CONSTRUCTION IN ACCORDANCE WITH CITY OF NEW HAVEN SPECIFICATION FOR PAVEMENT MARKINGS UNLESS DIRECTED OTHERWISE BY THE CITY. PAVEMENT REPAIRS MUST BE IMMEDIATELY PREMARKED WITH TABS IN THE COLOR OF THE REMOVED LINE AND FINAL EPOXY RESIN PAVEMENT MARKINGS MUST BE APPLIED WITHIN 48 HOURS OF THE PERMANENT REPAIR.
- 25. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF SECTION 971 MAINTENANCE AND PROTECTION OF TRAFFIC CONTAINED IN THE CONTRACT SPECIFICATIONS.
- 26. PROVIDE CITY POLICE AS REQUIRED BY PERMIT OR AS DIRECTED FOR WORK ON CITY STREETS. THE COST IS PAID FOR UNDER THE ITEM "UNIFORMED LOCAL AND STATE POLICE OFFICERS".
- 27. AT FLAGGER LOCATIONS, POLICE OFFICERS REQUIRE A MASTER KEY TO OPERATE THE SIGNAL.
- 28. CONTRACTOR SHALL NOTIFY THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC, AND PARKING AND THE CITY OF NEW HAVEN EMERGENCY SERVICES AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING ANY DETOUR AND 72 HOURS IN ADVANCE OF CHANGING TRAFFIC PATTERNS WHICH WILL RESULT IN A REDUCTION OF PAVEMENT WIDTHS OR CLOSING OF STREETS.
- 29. STREETS MAY NOT BE CLOSED WITHOUT SPECIFIC PERMISSION FROM THE CITY OF NEW HAVEN.
- 30. ALL TRENCHES SHALL BE BACKFILLED AND PAVED OR PLATED AND APPROPRIATELY SIGNED STEEL PLATES IN ROAD AT THE END OF EACH DAY. A STREET PLATING PERMIT IS REQUIRED FROM THE CITY OF NEW HAVEN TO INSTALL STREET PLATES.
- 31. CONTRACTOR SHALL NOT UTILIZE AREAS BEYOND THE ACTIVE WORK ZONE FOR STORAGE OF MATERIALS OR EQUIPMENT DURING WORK HOURS OR AT NIGHT.
- 32. CONTRACTOR SHALL STAGE HIS WORK SO THAT THE NUMBER OF PARKING SPACES REMOVED FROM SERVICE IS MINIMIZED. THE CONTRACTOR SHALL CONTACT THE CITY OF NEW HAVEN DEPARTMENT OF TRANSPORTATION, TRAFFIC, AND PARKING BY NOON THE PRECEDING BUSINESS DAY REQUESTING WHICH PARKING METERS ARE TO BE TAKEN OUT OF SERVICE AND THE DURATION FOR EACH METER. THE CITY WILL BAG THE METERS APPROVED TO BE REMOVED FROM SERVICE. THE CONTRACTOR SHALL PAY THE CITY \$20.00 PER DAY FOR EACH METER BAGGED. THE COST IS INCLUDED IN THE ITEM "MAINTENANCE AND PROTECTION OF TRAFFIC".
- 33. SHOULD ANY EXISTING PARKING REGULATION SIGNAGE OR METER INTERFEN THE PROPOSED CONSTRUCTION AND REQUIRE RELOCATION, REPLACEMENT ADJUSTMENT, THAT WORK WILL BE PERFORMED BY THE NEW HAVEN OF TRANSPORTATION, TRAFFIC, AND PARKING. THE CONTRACTOR MINIMUM OF ONE (1) WEEK'S NOTICE OF EACH SIGN OR METER RELOCATION, REPLACEMENT, OR ADJUSTMENT. THE COST IS IN MAINTENANCE AND PROTECTION OF TRAFFIC.
- 34. THE CONTRACTOR SHALL COORDINATE THE POSTING OF SIGNS BY CONTACTING THE DEPARTMENT OF TRANSP PARKING PRIOR TO NOON ON THE BUSINESS DAY ACTIVITY WITH THE SPECIFICS OF TIME AND LOCA
- 35. CONTACT BRUCE FISCHER (203-946-087 DEPARTMENT OF TRANSPORTATION, TRAFFIC. BEFORE THE START OF CONSTRUCTION.

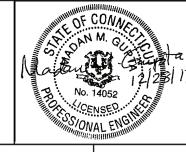


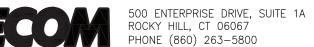
	CODE	SERIES	CONNDOT #	SIZE WXH (INCH)
ROAD WORK AHEAD	A	W20-1a	80-9603	36X36
END ROAD WORK	B	G20-2a	80-9612	48X24
RIGHT LANE CLOSED AHEAD	(CR)	W20-5R	80-9848	48X48
ONE LANE ROAD AHEAD	D	W20-4	80-9834	36X36
	C	W20-7	80-9803	36X36
ROAD CLOSED MEAD	H	W20-3		36X36
ROAD CLOSED	0	<b>▶</b> R11−2	80-9080	48X30
DONOT	J	R5-1	31-1119	30X30
ROAD CLOSED TO THRU TRAFFIC LOCAL TRAFFIC ONLY	(KL)		BACKGROUND-WHITE COPY & BORDER - BLACK	60X30
ROAD CLOSED  1 MILE AHEAD  LOCAL TRAFFIC ONLY	(KM)	R11-3a	80-9077	60X30
ROAD CLOSED  1/2 MILE AHEAD  LOCAL TRAFFIC ONLY	(KN)	R11-3a	80-9077	60X30
DETOUR AHEAD	M	W20-2	BACKGROUND—ORANGE COPY & BORDER — BLACK	36X36
END DETOUR	0	M4-8A	80-9708	24X18
DETOUR	PL	M4-10L	80-9702L	48X18
DETOUR	PR	M4-10R	80-9701R	48X18
STREET NAME DETOUR	BB-X QS	<u>W16-8P</u> M4-9	_80-9916_ 80-9710S	48X10 30X24
STREET NAME  DETOUR	BB-X QL	<u>W16-8P</u> M4-9L	80-9916 80-9710L	48X10 30X24
STREET NAME  DETOUR	BB-X QR	W16-8P M4-9R	80-9916 80-9710R	48X10 30X24

	CODE	SERIES	CONNDOT #	SIZE WXH (INCH)
ROAD CLOSED AHEAD	BB-X H	W16-8P W20-3	<u>80-9916</u>	48X10 36X36
	RL	W1-6	80-9422L	36X18
	RR	W1-6	80-9422R	36X18
SIDEWALK CLOSED	(XC)	R9-9	80-9076	30X18
SIDEWALK CLOSED USE OTHER SIDE	XD	R9-10	BACKGROUND-WHITE COPY & BORDER - BLACK	24X12
SIDEWALK CLOSED CROSS HERE	XLA	R9-11A(L)	80-9075L	24X12
SIDEWALK CLOSED CROSS HERE	XRA	R9-11A(R)	80-9075R	24X12
BUSINESS	(YO)		50-5934	36X36
BUSINESS ACCESS	YL		50-5934L	36X36
BUSINESS ACCESS	YR		50-5934R	36X36
STEEL PLATE AHEAD	(SS)	W8-24	BACKGROUND—ORANGE COPY & BORDER — BLACK	36X36
BUMP	<u>()</u>	W8-1	80-9901	36X36
BUMP AHEAD	Ü	W8-1A	80-9801	36X36
QUINNIPIAC AVE	(BB-1)	W16-8P	80-9916	48X10
NICOLL ST.	(BB-2)	W16-8P	80-9916	48X10
MITCHELL DR.	(BB-3)	W16-8P	80-9916	48X10
CANNER ST.	(BB-4)	W16-8P	80-9916	48X10
			EXPE	GM2 Associates, Inc. Consulting Engineers 115 Glastonbury Boulevard Glastonbury, CT 06033





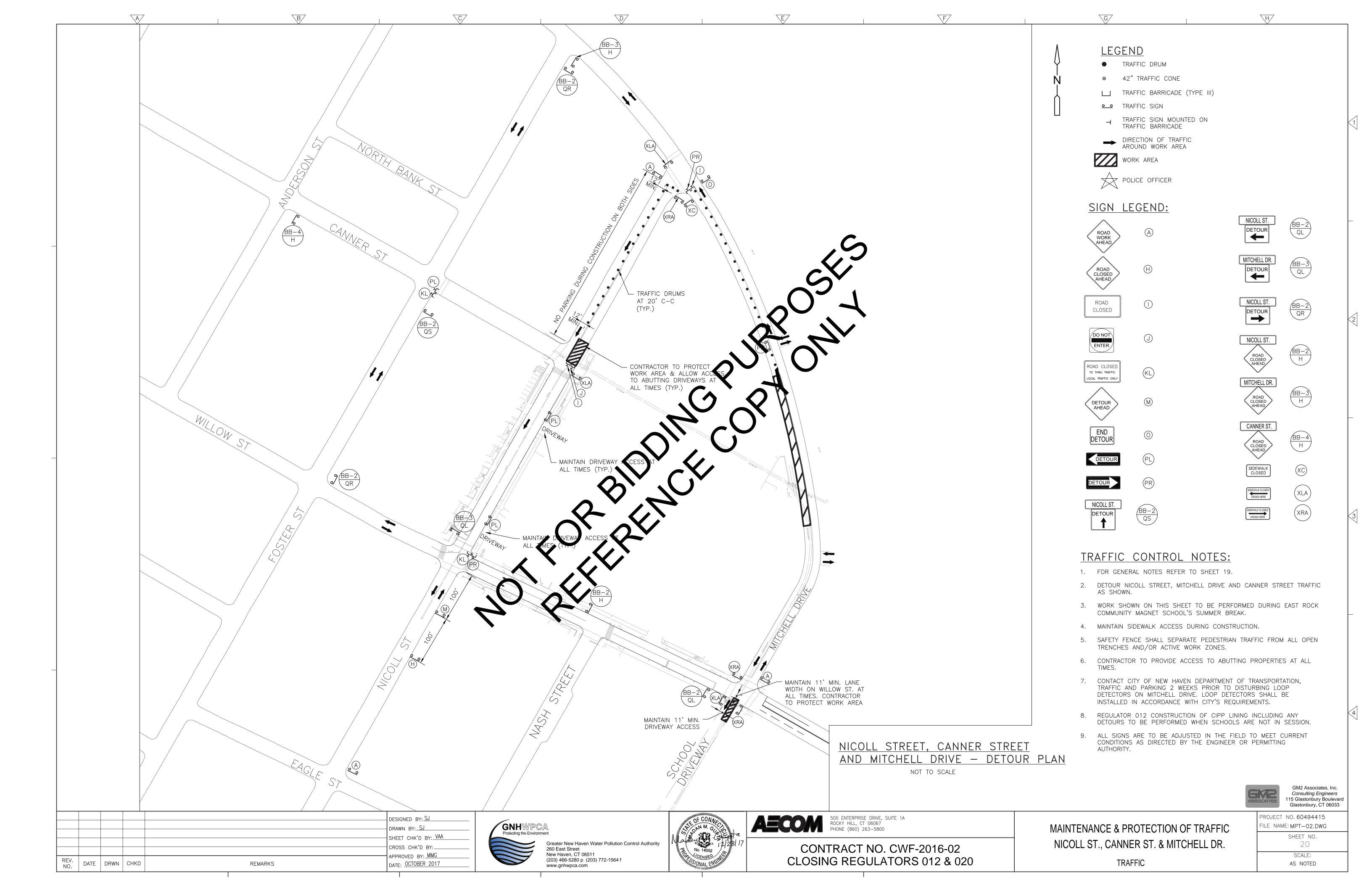


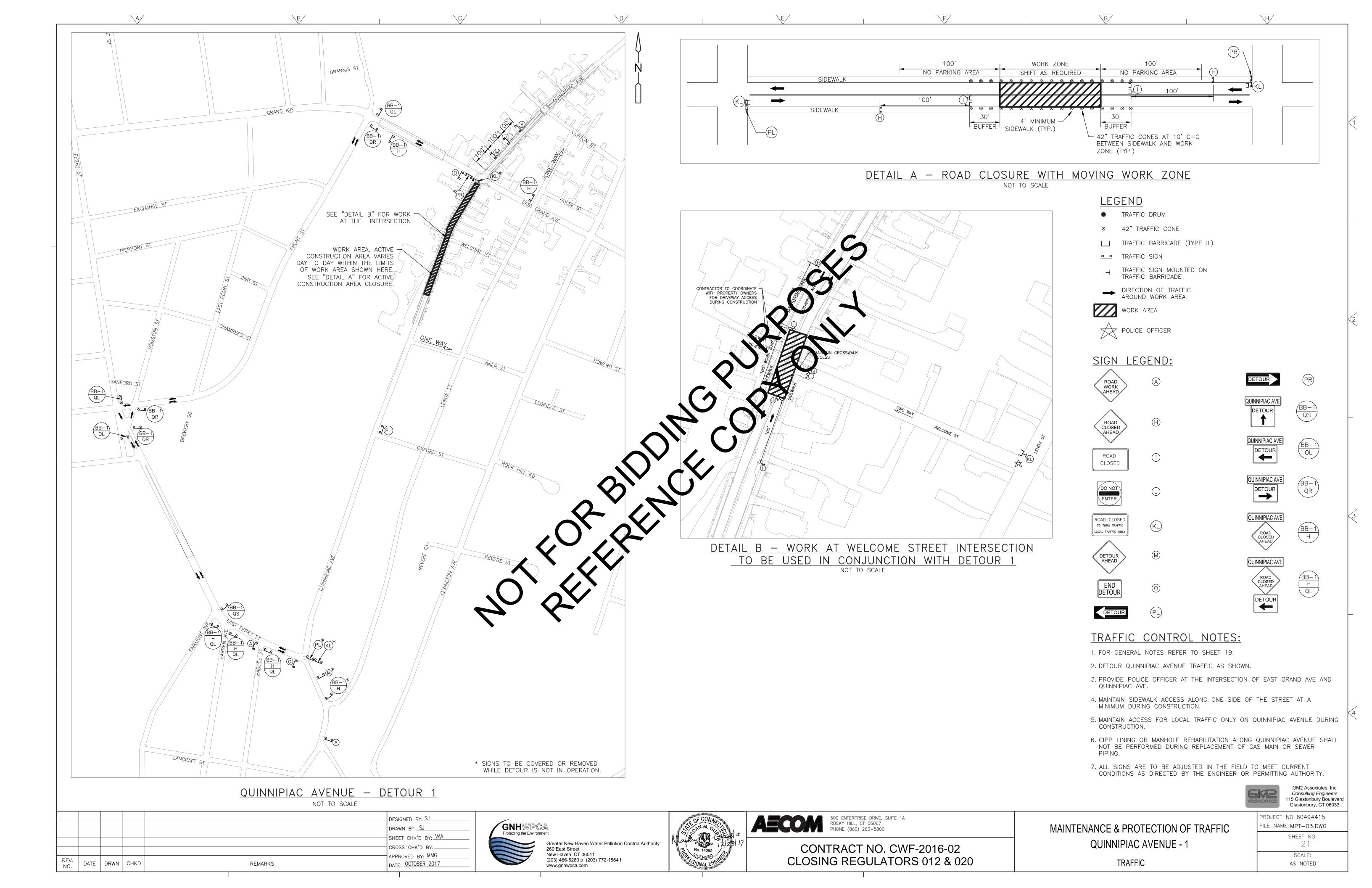


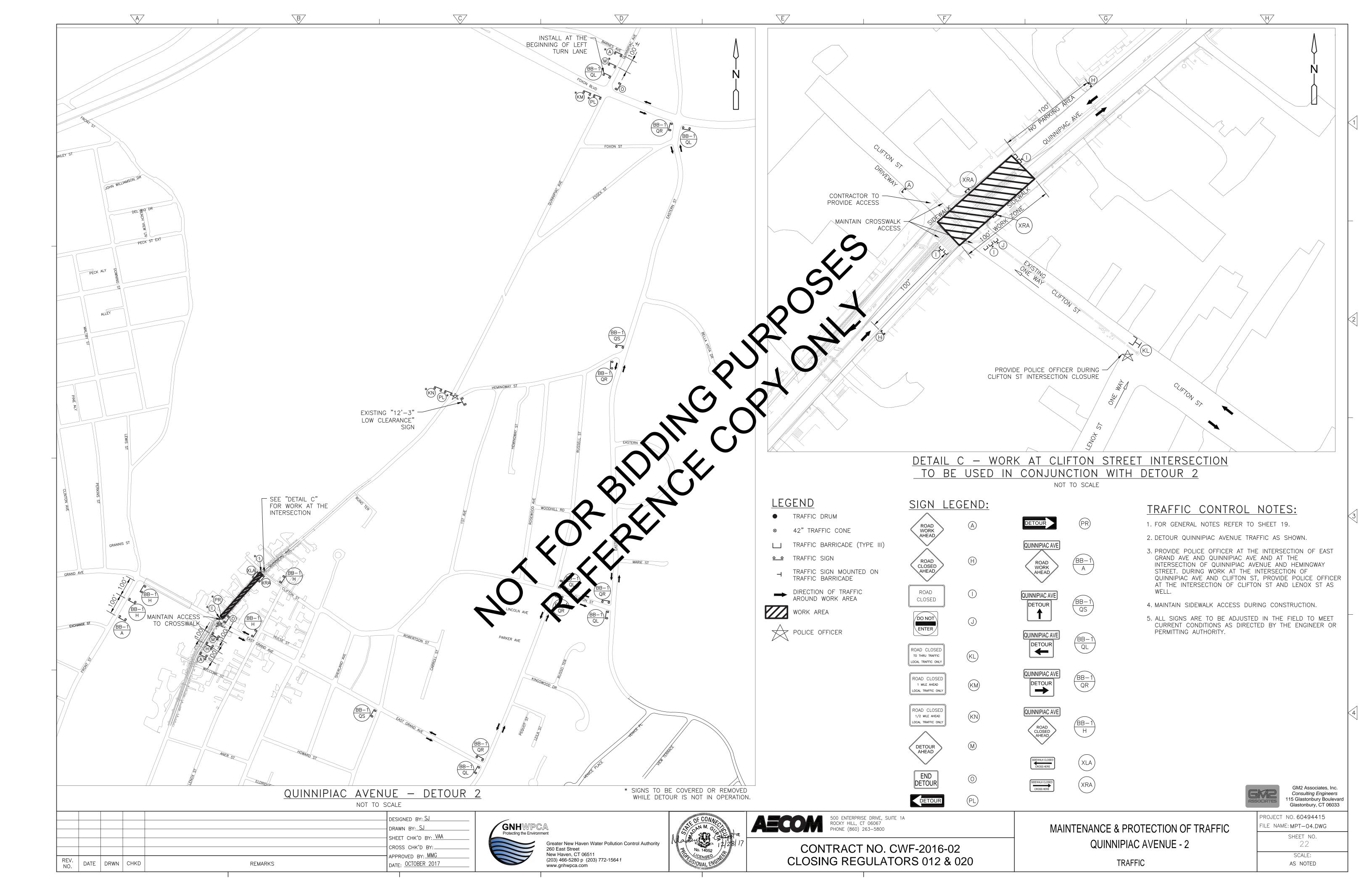
CONTRACT NO. CWF-2016-02 CLOSING REGULATORS 012 & 020 MAINTENANCE & PROTECTION OF TRAFFIC GENERAL NOTES & SIGN LEGEND TRAFFIC

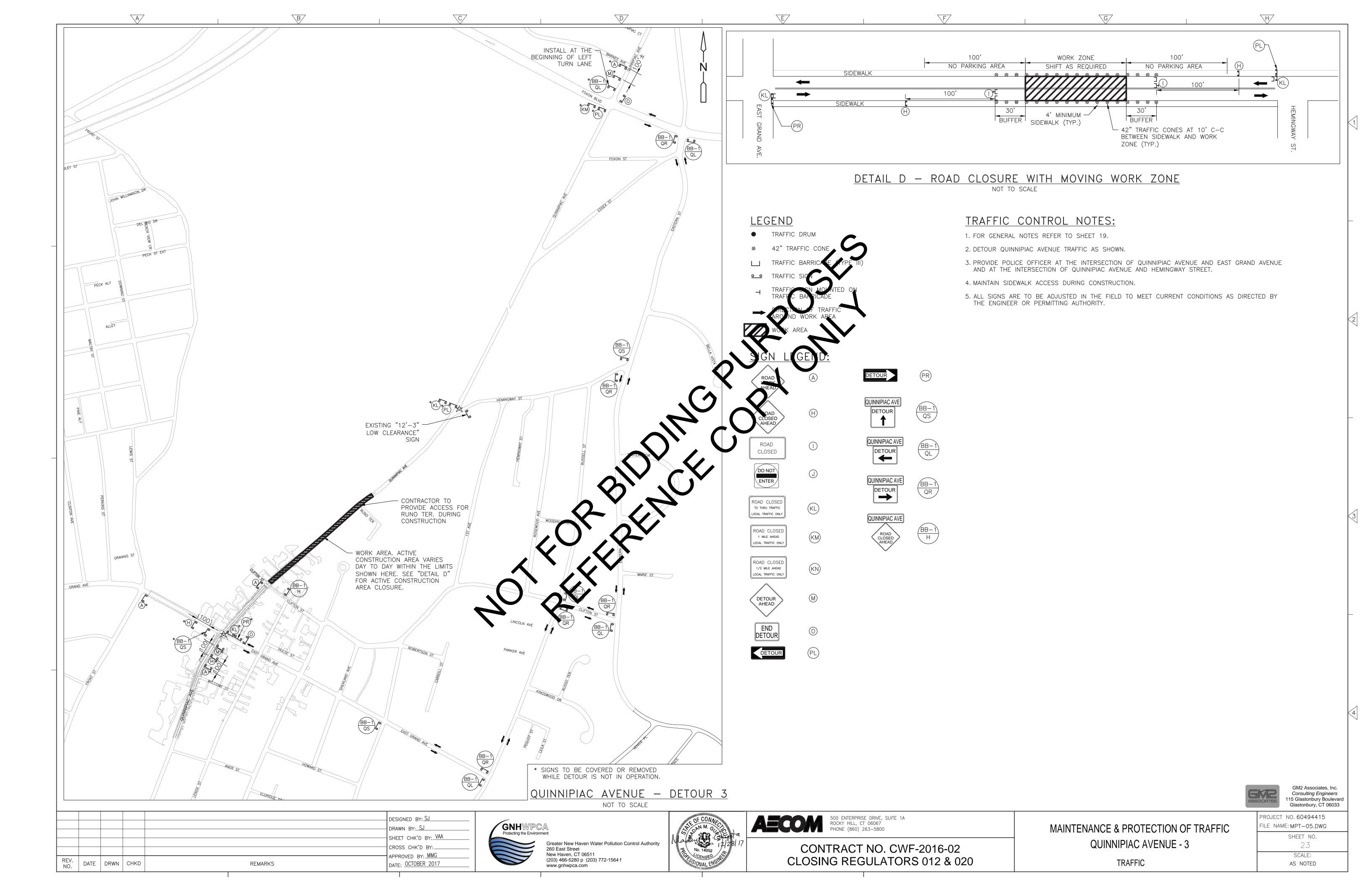
PROJECT NO. 60494415 TLE NAME: MPT-01.DWG SHEET NO. 19 SCALE:

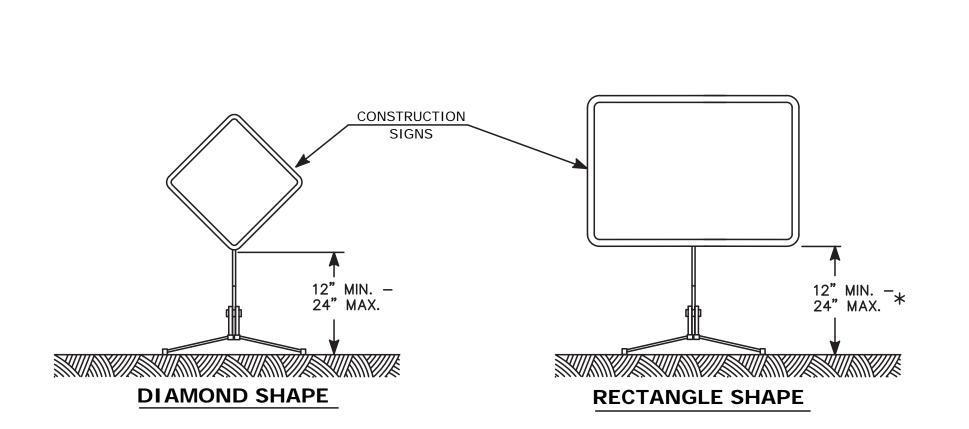
AS NOTED











#### PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

3' MIN.

TYPE I BARRICADE

DIRECTION

TRAFFIC

- 1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24".

  SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.

TYPE IV OR TYPE IX TORANGE RETROREFLECTIVE STRIPE (TYP.)

3' MIN.

NOTES:

TYPE IV OR TYPE IX
WHITE (SILVER) RETROREFLECTIVE STRIPE (TYP.)

DIRECTION

TYPE II BARRICADE

CONSTRUCTION BARRICADES

2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND

FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.

4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE

PASS. 6" WIDE STRIPES SHALL BE USED.

DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.

5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.

SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL

WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO

1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP

3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE

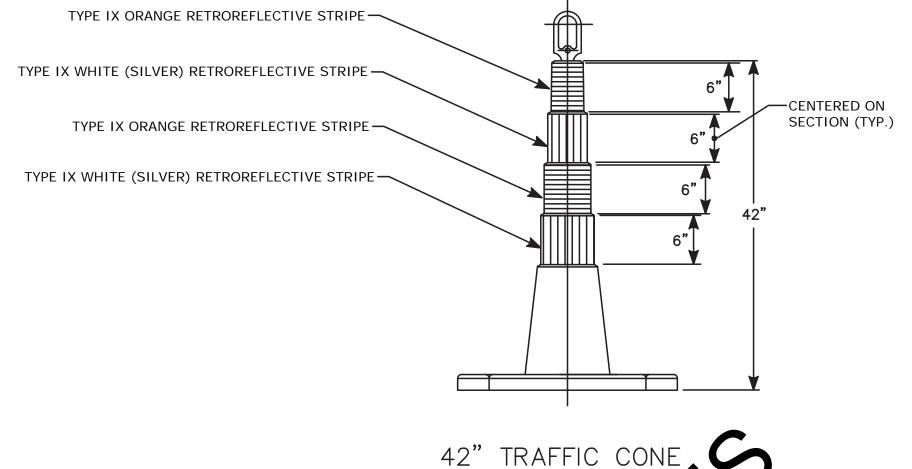
SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES

6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED

REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.

TRAFF10

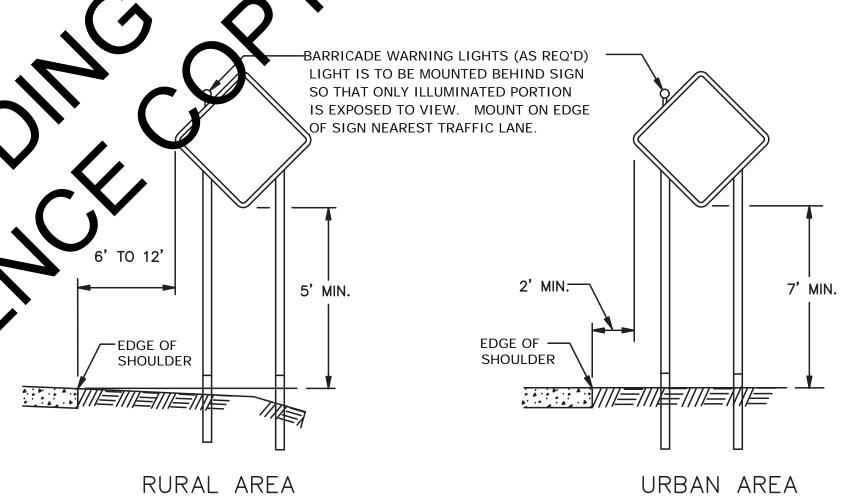
- 3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- 5. PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1.



# +Z INALLIC CONL

#### NOTES:

- 1. TRAFFIC CONES SHALL CONFORM TO THE REQUIPMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTOD.
- 2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR SUS FOR RIGIDITY
- 3. IF PLASTIC CONES ARE USED, TARY SHALL BE COLO IMPREGNATED.
- 4. THE ENGINEER RESERVE THE RIGHY TO REJECT AN COXY DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 5. THE ENTIRE AREA OF ORAL GE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATION.
- 6. THE SECTION OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES



PLACEMENT OF CONSTRUCTION SIGNS

TYPICAL LONG TERM INSTALLATION

#### NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.

#### TRAFFIC DRUM FRONT VIEW

#### NOTES:

36" MIN.

- 1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TYPE IX ORANGE TRETROREFLECTIVE STRIPE (TYP.)

6" (TYP.)

3" MAX. (TYP.)

RETROREFLECTIVE STRIPE (TYP.)

TYPE IX ORANGE
RETROREFLECTIVE STRIPE (TYP.)

TYPE IX WHITE (SILVER)
RETROREFLECTIVE STRIPE (TYP.)

Consulting Engineers
115 Glastonbury Boulevard
Glastonbury, CT 06033

PROJECT NO. 60494415

FILE NAME: MPT-06.DWG

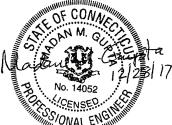
GM2 Associates, Inc.

| DESIGNED BY: SJ | DRAWN BY: SJ | DRAWN BY: SJ | SHEET CHK'D BY: VAA | CROSS CHK'D BY: WAG | APPROVED BY: MMG | DATE: OCTOBER 2017



5' MIN.

Greater New Haven Water Pollution Control Authority 260 East Street
New Haven, CT 06511
(203) 466-5280 p (203) 772-1564 f
www.gnhwpca.com





CONTRACT NO. CWF-2016-02 CLOSING REGULATORS 012 & 020

# CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

ELIZING DEVICES	SHEET NO. 24
RAFFIC	SCALE: AS NOTED
	1

