

ONONDAGA COUNTY CSO ABATEMENT PROGRAM

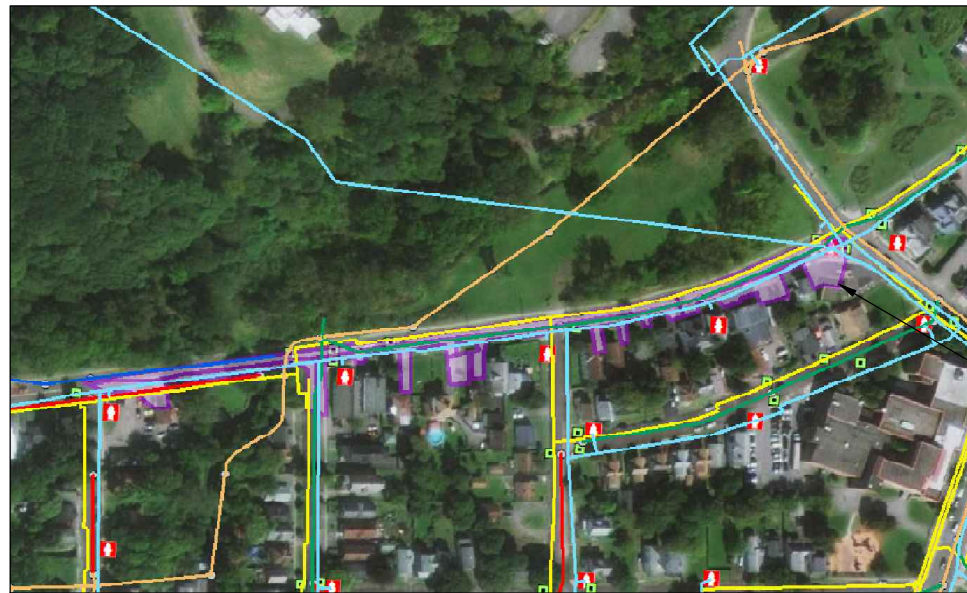
GRAND AVENUE

CSO 014 AND 015 STORM SEWER SEPARATION

TASK ORDER 2020-006G

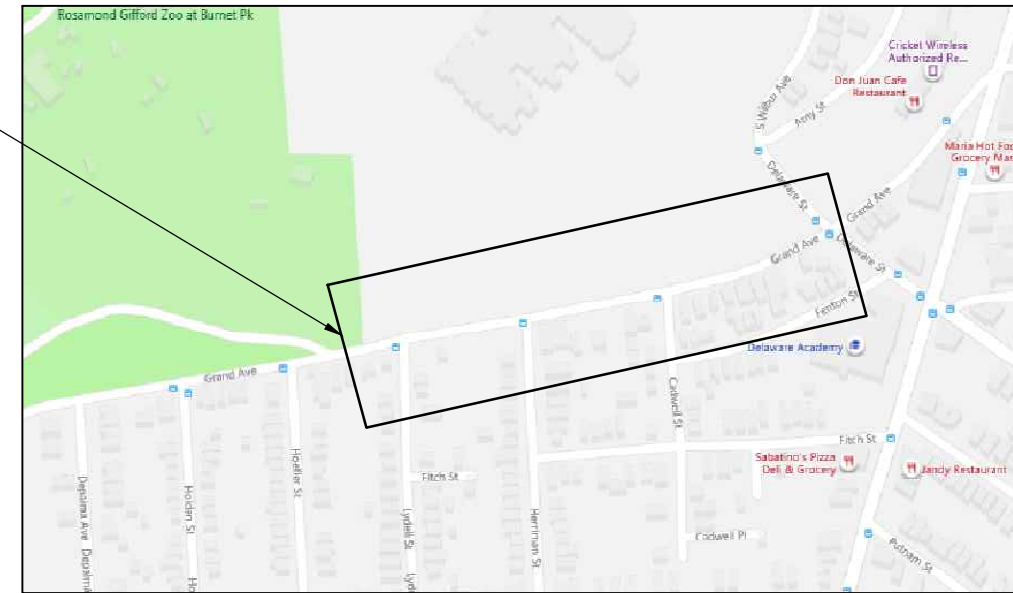
DRAWING INDEX

GENERAL		
1	G-1	COVER SHEET
2	G-2	ABBREVIATIONS, LEGENDS, AND NOTES
CIVIL		
3	C-1	EXISTING SITE PLAN
4	C-2	PROPOSED SITE PLAN
5	C-3	STORM SEWER PROFILE



PROJECT DRAINAGE AREA:
 IMPERVIOUS AREA = 1.15 ACRES
 DISTURBED AREA = 0.62 ACRES

PROJECT LOCATION:
 GRAND AVENUE
 BETWEEN DELAWARE STREET AND
 LYDELL STREET



LOCATION MAP
 NOT TO SCALE



RECORD DRAWINGS

Revisions Drawn By COLIN O'NEILL Date SEPTEMBER 2020

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NO.	DATE	REVISION	CHK	DR	APVD	BY	APVD

499 SOUTH WARREN STREET
 SUITE 509
 SYRACUSE, NY 13202

H-90A
 GRAND AVE SEWER SEPARATION
 GRAND AVENUE
 SYRACUSE, NY
 ONONDAGA COUNTY

JACOBS

GENERAL
 COVER SHEET

NO SCALE	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING, 0" = 1"	
DATE	JUNE 2020
PROJ	H-90A
DWG	G-1
SHEET	1 OF 5

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GENERAL CONSTRUCTION NOTES:

- 1. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
2. ALL DISTURBED SIGNS SHALL BE RE-INSTALLED IN KIND IN THE SAME LOCATION PER THE ONONDAGA COUNTY GREEN INFRASTRUCTURE PROGRAM 2017 ANNUAL GREEN STRUCTURES DETAIL TU.04, UNLESS OTHERWISE NOTED.
3. PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SAFETY AND SECURITY AT ALL TIMES.
4. UNLESS SHOWN, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE RESTORED WITH GRASS AS SPECIFIED.
5. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE NOTED.
6. UNLESS SHOWN, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE RESTORED WITH GRASS AS SPECIFIED. SEE SPECIFICATION PI 4.112 AND PI 4.113.
7. NOTIFY DIG SAFELY NEW YORK 811 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
8. UNLESS OTHERWISE NOTED, EXISTING GRANITE CURBING IS TO BE LEFT IN PLACE OR REPLACED TO THE NEAREST JOINT FROM THE DISTURBED AREA.
9. WHERE DISTURBED DURING CONSTRUCTION, ALL EXISTING MANHOLE AND CATCH BASIN FRAMES AND COVERS SHALL BE REINSTALLED UPON A MINIMUM OF 2 COURSES OF BRICK, WHICH SHALL BE REPLACED IN KIND. THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR VEHICULAR AND PEDESTRIAN TRAFFIC IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD). ALL TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED FOR THE DURATION OF THE WORK.
11. ADJUST TOPS OF EXISTING DRAINAGE STRUCTURES IN ACCORDANCE WITH NYS DOT STANDARD SHEET 604-2.
12. AT CLOSE OF PROJECT, RECORD DRAWINGS VERIFYING ALL STRUCTURES ELEVATIONS SHALL BE COMPLETED BY A NYS LICENSED SURVEYOR.
13. UNLESS OTHERWISE APPROVED BY THE CITY OF SYRACUSE, PEDESTRIAN AND VEHICULAR ACCESS TO WALKWAYS, BUSINESSES, AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
14. CONTRACTOR SHALL NOTIFY THE CITY OF SYRACUSE DEPT. OF PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE OF CONNECTING TO SEWER MAINS OR LATERALS. CITY DPW MUST WITNESS THE CONNECTION. IF CITY DPW DOES NOT WITNESS CONNECTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR RE-EXCAVATING AROUND THE CONNECTION FOR CITY DPW APPROVAL. CONNECTION TO SEWER MAIN OR LATERALS MUST BE PERFORMED BY A NYS LICENSED PLUMBER AND REQUIRES A PLUMBING PERMIT THROUGH ONONDAGA COUNTY.
15. THE CONTRACTOR SHALL APPLY FOR ALL REQUIRED PERMITS AND PAY ALL REQUIRED FEES BY GOVERNING AGENCIES HAVING JURISDICTION OVER THE FACILITIES AND NATURAL FEATURES FOUND ON THE SITE.
16. THE CONTRACTOR SHALL ADHERE TO ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), STATE AND LOCAL SAFETY REGULATIONS.
17. COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING MATERIALS, METHODS OF WORK AND DISPOSAL OF EXCESS AND WASTE MATERIALS.
18. BURNING OF MATERIALS OF ANY DESCRIPTION ON THE SITE IS PROHIBITED.
19. THE USE OF EXPLOSIVES OF ANY DESCRIPTION ON THE SITE IS PROHIBITED.
20. LONG LEAD AND SCARCE MATERIALS SHALL BE ORDERED IN A TIMELY MANNER TO PREVENT AVOIDABLE CONSTRUCTION DELAYS.
21. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE CAUSED BY CONSTRUCTION TO EXISTING UTILITIES AND FACILITIES WHICH ARE NOT INCLUDED AS PART OF THE INTENDED WORK. THE CONTRACTOR SHALL REPAIR, RESTORE AND/OR REPLACE ALL DAMAGE TO THE SATISFACTION OF ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
22. ALL WORK AND STORAGE WILL BE IN CITY RIGHT OF WAY.
23. AS-BUILTS REQUIRED BY THE CONTRACTOR SHALL IDENTIFY THE FOLLOWING STORM SEWER OUTFALL DATA FOR THE FINAL INSTALLATION:
23.1. COORDINATES
23.2. PIPE MATERIAL AND SIZE
23.3. STREET LOCATION, AND
23.4. VISIBILITY

SITE PROTECTION NOTES:

- 1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES A SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM ALL PRIVATE AND PUBLIC PLACES OF BUSINESS.
2. THE CONTRACTOR SHALL COORDINATE WITH ANY AND ALL CONTRACTORS PERFORMING WORK ON THIS OR IMMEDIATELY ADJACENT TO THIS JOB SITE.
3. THE CONTRACTOR SHALL AT THEIR OWN EXPENSE, RESTORE LAWNS, DRIVEWAYS, FENCES, SIGNS AND OTHER PUBLIC AND PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISRUPTED.
4. EXCAVATED SPOILS NOT DESIGNATED FOR USE ON SITE SHALL BE REMOVED AT THE END OF EACH WORK DAY.
5. ALL BACKFILL MATERIAL STORED ON SITE SHALL BE COVERED TO PREVENT DUST AND MOISTURE INCREASE.
6. ALL TRUCKS ENTERING AND LEAVING THE SITE SHALL BE COVERED BY LAW TO REDUCE DUST AND ODOR.
7. CONTRACTOR SHALL MAINTAIN A CLEAN WORK SITE AT ALL TIMES. AT THE END OF THE WORK DAY ALL EQUIPMENT AND MATERIALS SHALL BE STORED IN THE DESIGNATED STAGING AREA. ALL SOIL, DUST AND MUD SHALL BE REMOVED FROM THE PROJECT AREA AND OUTSIDE THE PROJECT AREA. AT THE END OF THE DAY, TIRES OF CONSTRUCTION VEHICLES SHALL BE CLEANED OF SOIL AND MUD BEFORE BEING ALLOWED ON CITY STREETS. ANY SOIL OR MUD DEPOSITED ON CITY STREETS BY CONSTRUCTION VEHICLES SHALL BE REMOVED IMMEDIATELY.
8. CONTRACTOR SHALL PRESERVE AND MAINTAIN ALL EXISTING FACILITIES INCLUDING SIDEWALKS, SURVEY MONUMENTS, LIGHTING, CURBING AND PAVEMENT WITHIN THE PROJECT LIMITS.
9. CONTRACTOR SHALL REMOVE, OR PROPERLY CONTAINERIZE UNNECESSARY CONSTRUCTION DEBRIS AT THE END OF EACH WORK DAY.
10. DUST CONTROL MEASURES SHALL BE USED ON CONSTRUCTION ROADS, ACCESS POINTS, AND OTHER DISTURBED AREAS. VEGETATION SHOULD BE LEFT WHERE PRACTICAL, AND TEMPORARY OR PERMANENT STABILIZATION MEASURES SHALL BE INSTALLED. NON-GRAVEL DRIVING AREAS SHALL BE SPRAYED WITH WATER UNTIL WET, OR GEOTEXTILE OR STONE MAY BE PLACED ON THE DRIVING SURFACE TO REDUCE DUST.

EROSION AND SEDIMENT CONTROL NOTES:

- 1. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE SHALL BE ALLOWED TO ESCAPE INTO ANY WATERS, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ENTER ANY WATERS OR SEWERS. CONCRETE WASHOUTS SHALL BE USED.
2. EROSION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.
3. CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE ERODED MATERIALS FROM LEAVING THE SITE.
4. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION CONTROLS MUST BE REMOVED AS APPROVED BY THE ENGINEER. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
5. PROVIDE EROSION AND SEDIMENT CONTROL MEASURES WHERE AND WHEN APPROPRIATE AS PER THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION. PROTECT EXISTING SITE FEATURES UNLESS OTHERWISE NOTED. CONSULT ENGINEER PRIOR TO STORMWATER MANAGEMENT PRACTICE INSTALLATION.
6. UNTIL THE SITE IS STABILIZED, ALL EROSION CONTROLS MUST BE MAINTAINED PROPERLY, MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION CONTROLS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RE-SEEDING, RE-MULCHING AND RE-NETTING, MUST BE PERFORMED IMMEDIATELY. IF EROSION CONTROLS FAIL TO PERFORM AS EXPECTED, REPLACEMENT CONTROLS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
7. BEFORE CLOSE OF PROJECT, CONTRACTOR SHALL VACUUM ALL MANHOLES, PIPES, CATCH BASINS, AND STRUCTURE SUMPS.
8. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM AND FUEL TANK DRAIN DOWN, DEGREASING OPERATIONS AND OTHER ACTIVITIES THAT MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS MUST BE CONDUCTED OFF-SITE. ACCIDENTAL SPILLS MUST BE CLEANED UP IMMEDIATELY AND CONTAMINANTS DISPOSED OF PROPERLY.

UTILITY NOTES:

- 1. THE APPROXIMATE LOCATION OF THE UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE TRUE LOCATION BEFORE COMMENCING WORK AND NOTIFY THE ENGINEER OF ANY POTENTIAL CONFLICTS OR DISCREPANCIES. BEFORE ANY PIPE IS PLACED, THE CONTRACTOR SHALL UNCOVER ALL UTILITIES AT PIPE CROSSINGS TO ENABLE THE ENGINEER TO VERIFY THE PROPOSED PIPE WITH GRADES SHOWN ON THE PLANS IS NOT OBSTRUCTED BY EXISTING UTILITIES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES ENCOUNTERED IN THIS WORK. WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE TIMBER, OR OTHER APPROVED MATERIALS AND SECURELY BRACE AND PROTECT THESE UTILITIES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.
3. THE DEGREE OF ACCURACY FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS IS QUALITY LEVEL C/D.

SURVEY NOTES:

- 1. SURVEY WAS PERFORMED BY BRYANT ASSOCIATES, P.C. IN JANUARY 2020.
2. HORIZONTAL DATUM IS ON NAD 83.
3. VERTICAL DATUM IS ON NAVD 88.
4. CITY OF SYRACUSE SURVEY MONUMENTS SHALL NOT BE DISTURBED OR DESTROYED. IF THERE IS A CONFLICT OR A SURVEY MONUMENT IS WITHIN FIVE FEET OF CONSTRUCTION THE CITY OF SYRACUSE, DEPARTMENT OF ENGINEERING MUST BE CONTACTED AT (315)-448-8207 BEFORE ANY DEMOLITION OR CONSTRUCTION BEGINS.
5. UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM VISIBLE EVIDENCE LOCATED AT THE TIME OF THE FIELD SURVEY. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOULD BE STAKED BY THE RESPECTIVE UTILITY COMPANY PRIOR TO ANY CONSTRUCTION.

GENERAL NOTES:

- 1. STANDARD DETAIL REFERENCES IN THE PLANS REFER TO THE ONONDAGA COUNTY GREEN INFRASTRUCTURE 2017 ANNUAL GREEN STRUCTURES CONTRACT AT VARIOUS LOCATIONS, VOLUME II OF II: STANDARD DETAILS.
2. COUNTY PAY ITEM REFERENCES IN THE PLANS REFER TO THE ONONDAGA COUNTY GREEN INFRASTRUCTURE 2017 ANNUAL GREEN STRCUTURES CONTRACT AT VARIOUS LOCATIONS, VOLUME I OF II: CONTRACT DOCUMENTS.



Table with 5 columns and 5 rows for revision tracking. Headers include NO., DATE, DSGN, DR, C. ONEILL, REVISION, CHK, APVD, Z. MONGE.

499 SOUTH WARREN STREET SUITE 509 SYRACUSE, NY 13202
H-90A GRAND AVE SEWER SEPARATION GRAND AVENUE SYRACUSE, NY ONONDAGA COUNTY

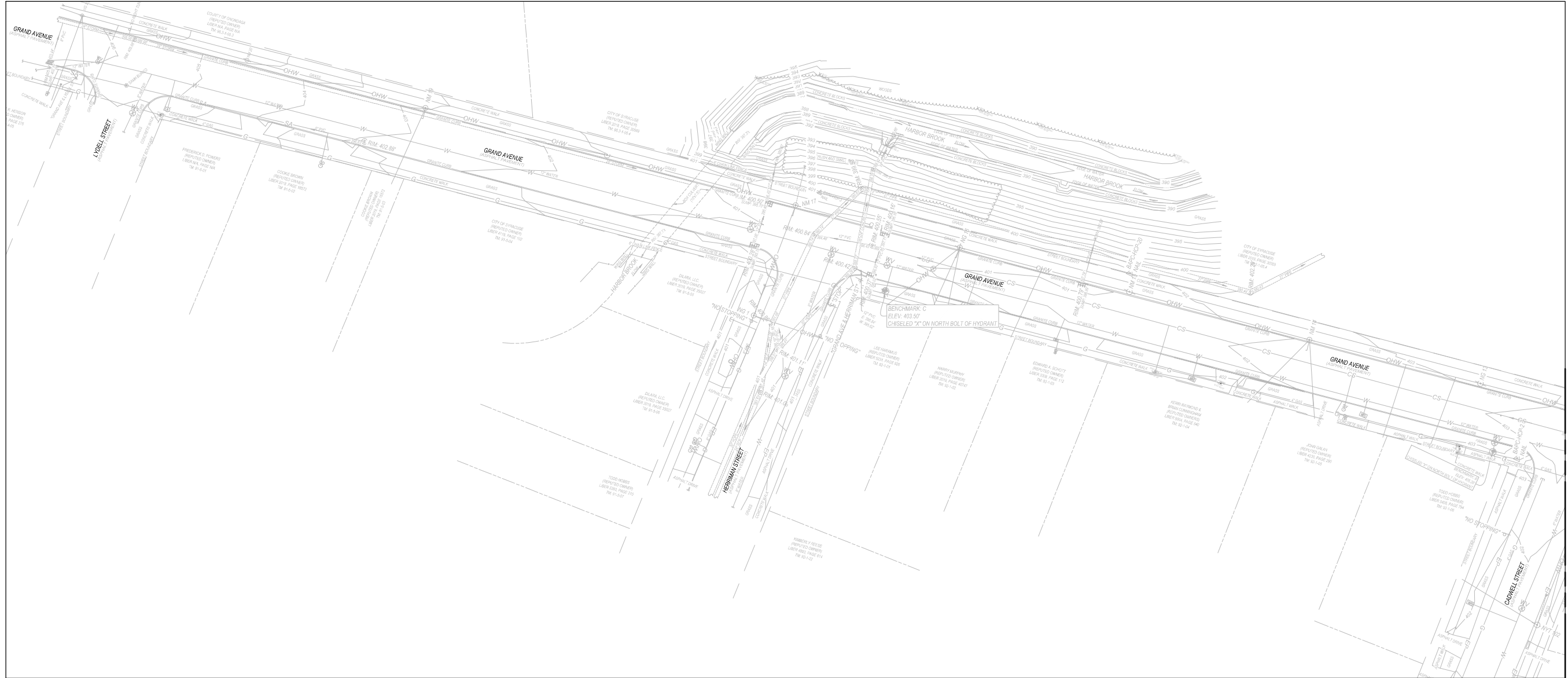
JACOBS GENERAL ABBREVIATIONS, LEGENDS, & NOTES

Scale and drawing information table including NO SCALE, VERIFY SCALE, BAR IS ONE INCH ON ORIGINAL DRAWING, DATE, PROJ, DWG, SHEET.

RECORD DRAWINGS

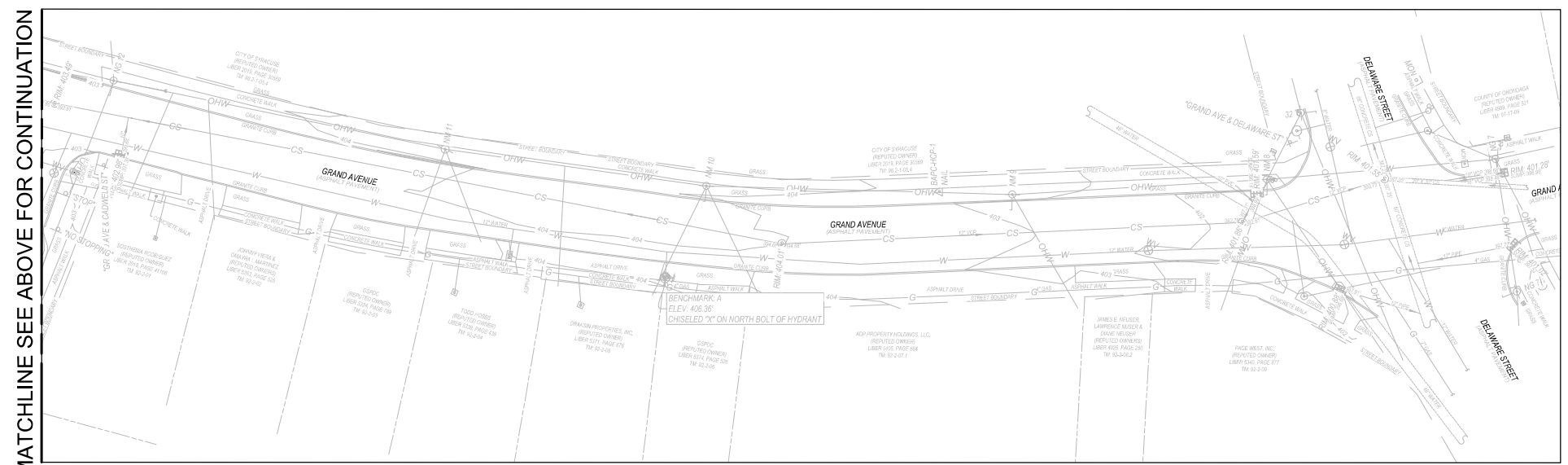
Revisions Drawn By COLIN O'NEILL Date SEPTEMBER 2020
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① SITE PLAN

MATCHLINE SEE BELOW FOR CONTINUATION



② SITE PLAN

MATCHLINE SEE ABOVE FOR CONTINUATION

RECORD DRAWINGS

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NO.	DATE	DR	CHK	APVD	BY	APVD

499 SOUTH WARREN STREET
SUITE 509
SYRACUSE, NY 13202

H-90A
GRAND AVE SEWER SEPARATION
GRAND AVENUE
SYRACUSE, NY
ONONDAGA COUNTY

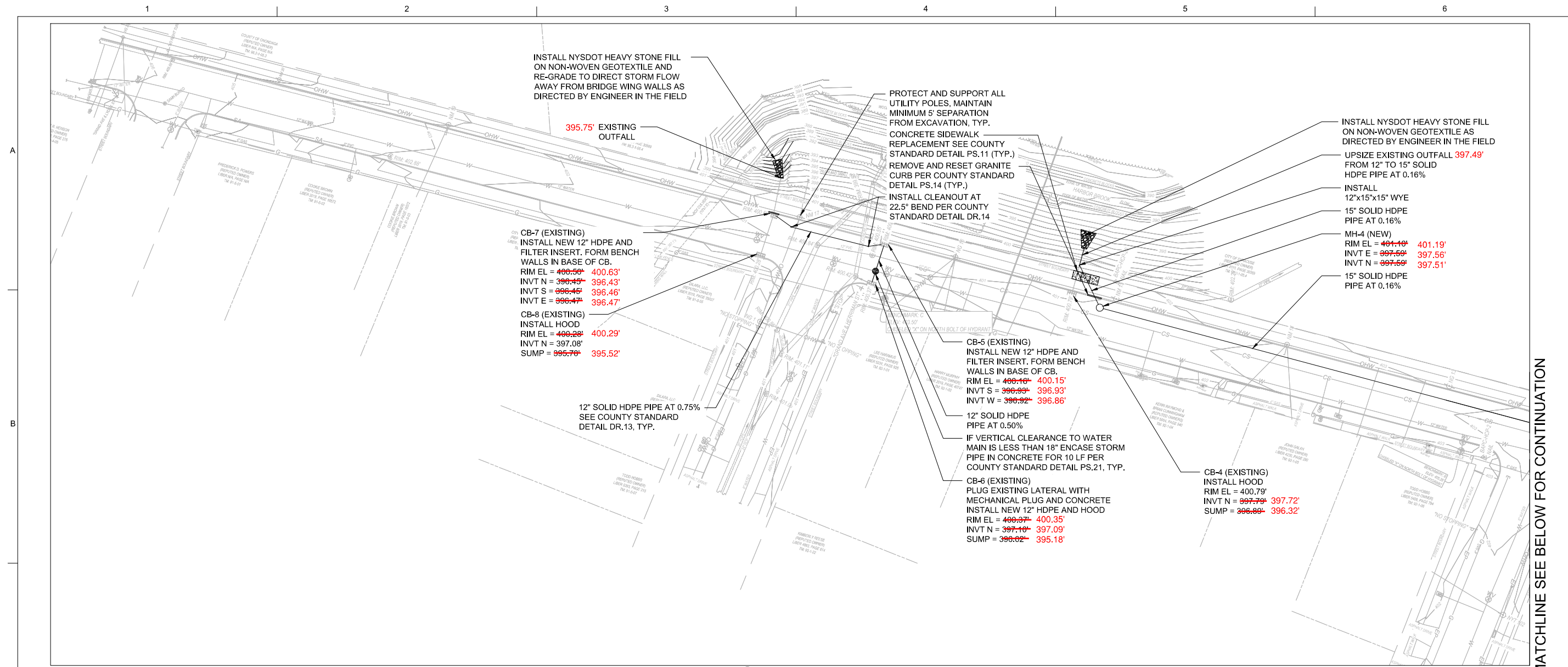
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GENERAL

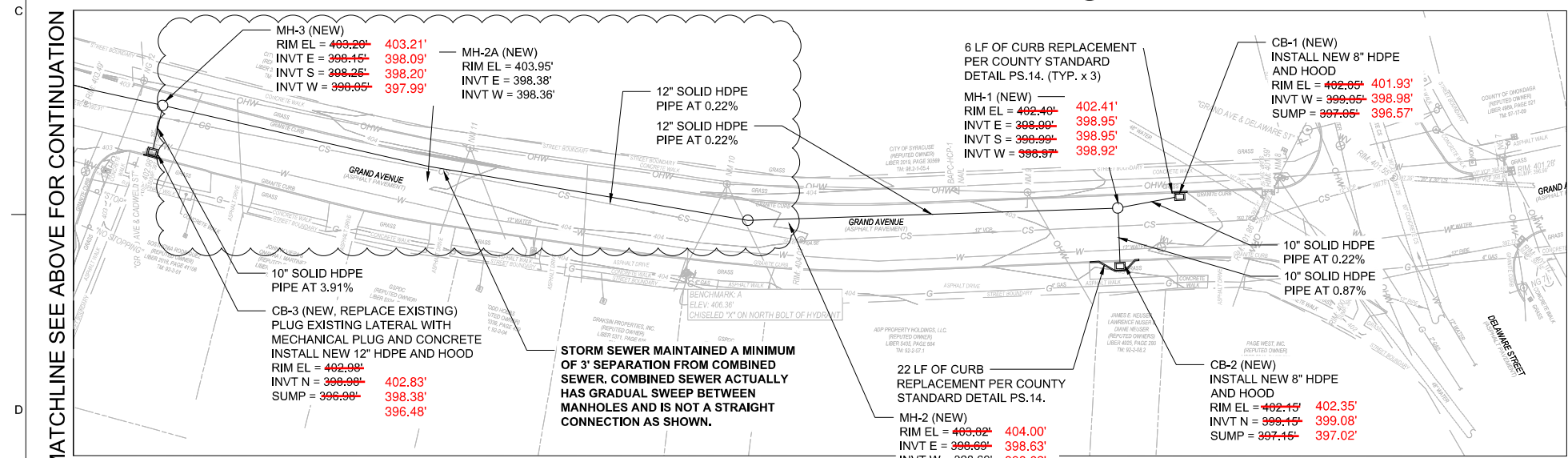
EXISTING SITE PLAN

NO SCALE
VERIFY SCALE
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DATE: JUNE 2020
PROJ: H-90A
DWG: C-1
SHEET: 3 OF 5

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1 SITE PLAN



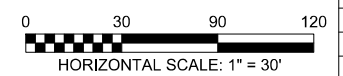
2 SITE PLAN

RECORD DRAWINGS

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NOTES:

- DO NOT DISTURB EXISTING CURBING UNLESS OTHERWISE NOTED IN PLANS.
- ROAD RESTORATION WITH BINDER COURSE TO SURFACE PER COUNTY STANDARD DETAIL PS.05. CITY WILL MILL AND PAVE STREET AFTER COMPLETION OF PROJECT.
- ALL MANHOLES ON NEW STORM LINE SHALL BE FORMED WITH BENCHWALLS PER CITY OF SYRACUSE STANDARD.
- SEE SHEET C-3 FOR STORM LINE PROFILES.
- CITY OF SYRACUSE TO PROVIDE TRAFFIC CONTROL/ROAD CLOSURES. COORDINATE WORK WITH THE CITY.
- ALL STORM SEWERS TO BE HANDED OVER TO THE CITY SHALL BE TESTED PER APPLICABLE STANDARDS.
 - DEFLECTION TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. NO SECTION OF PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT, OR IT SHALL BE EXCAVATED AND REPLACED IN ACCORDANCE WITH REQUIREMENTS IN THE APPROVED SPECIFICATIONS.
 - LEAKAGE TEST MAY BE DONE THROUGH APPROPRIATE WATER OR LOW PRESSURE AIR TESTING.
 - WATER (HYDROSTATIC) TEST SHALL NOT EXCEED EXFILTRATION/INFILTRATION OF 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.
 - AIR TEST SHALL, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM F 1417 FOR PLASTIC PIPE.



MATCHLINE SEE BELOW FOR CONTINUATION

MATCHLINE SEE ABOVE FOR CONTINUATION



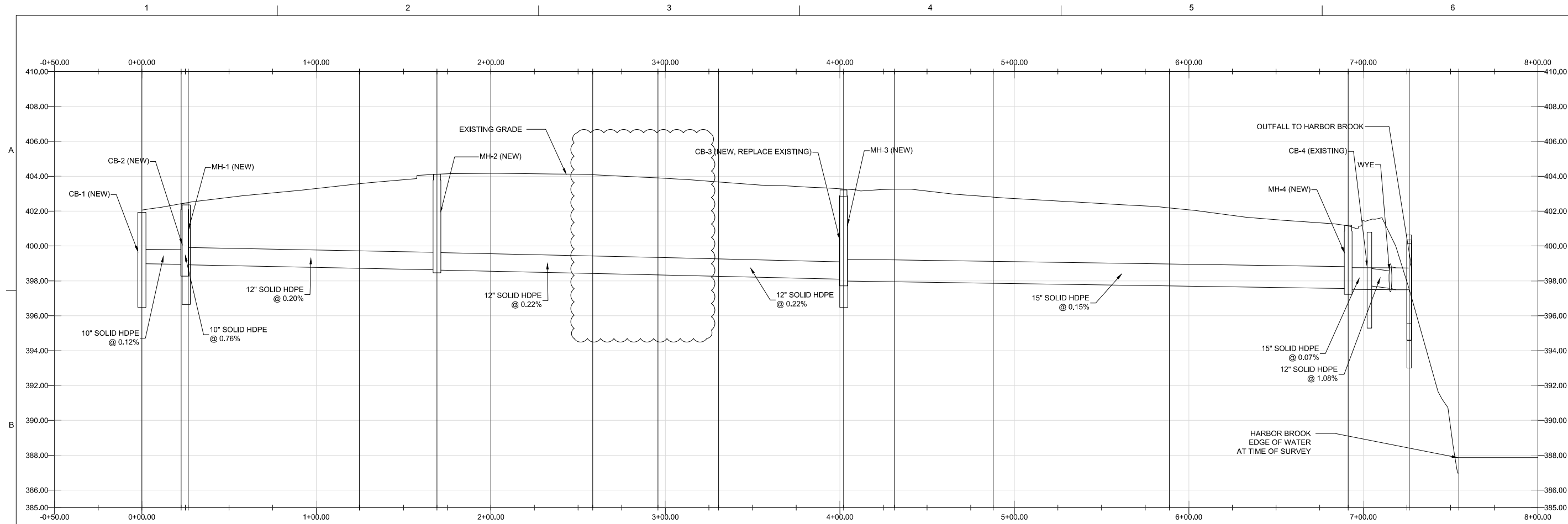
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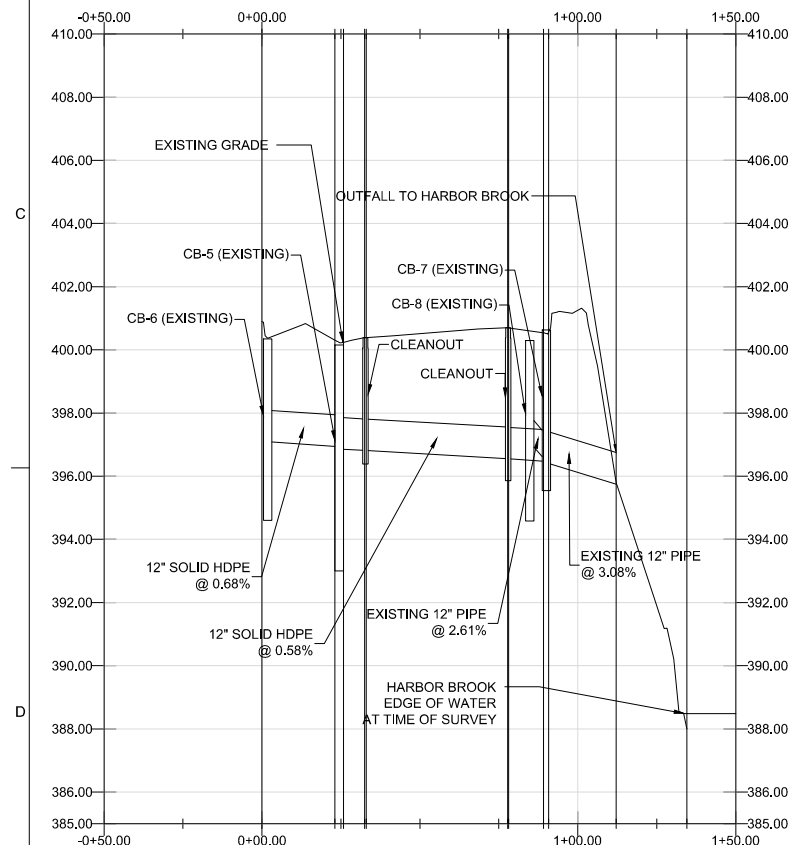
H-90A
 GRAND AVE SEWER SEPARATION
 GRAND AVENUE
 SYRACUSE, NY
 ONONDAGA COUNTY

GENERAL
PROPOSED SITE PLAN

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DATE JUNE 2020
PROJ H-90A
DWG C-2
SHEET 4 OF 5



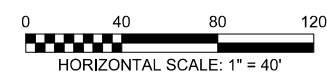
① STA 0+00 TO STA 8+00
STORM MAIN



② STA 0+00 TO STA 1+50
STORM MAIN

RECORD DRAWINGS

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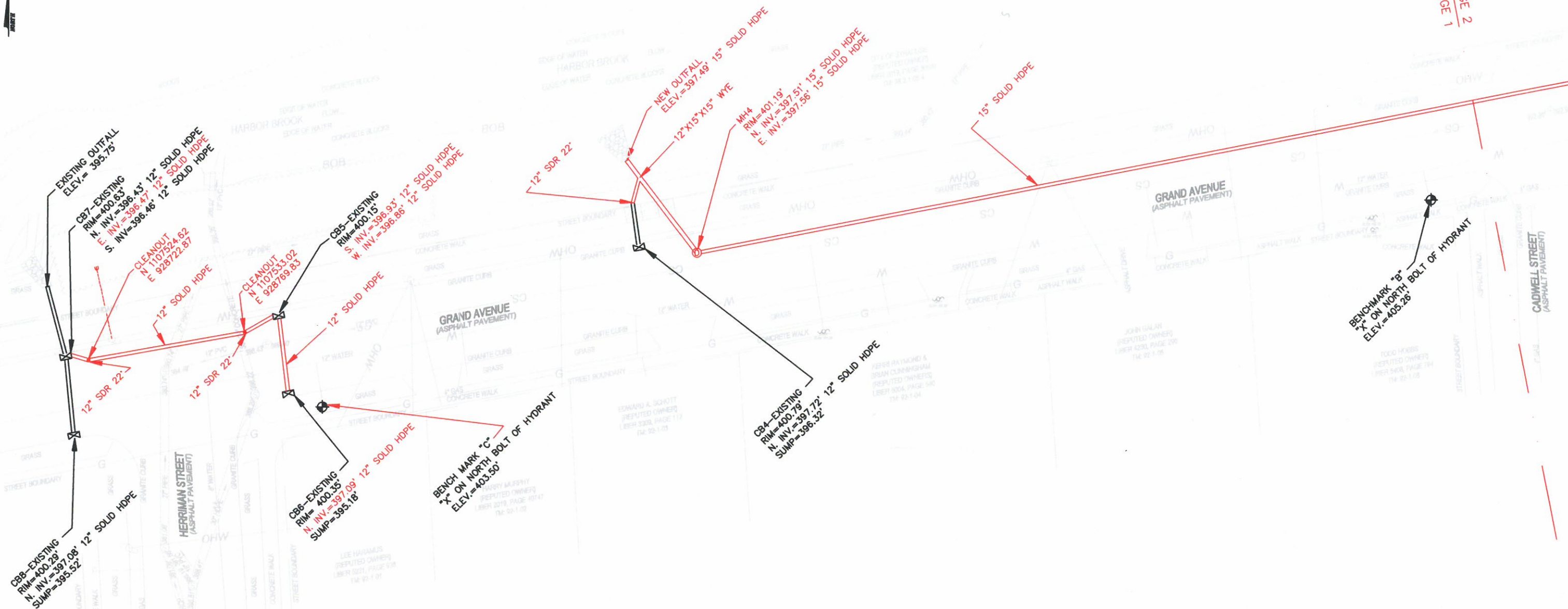
499 SOUTH WARREN STREET
 SYRACUSE, NY 13202
 H-90A
 GRAND AVE SEWER SEPARATION
 GRAND AVENUE
 SYRACUSE, NY
 ONONDAGA COUNTY

JACOBS
 GENERAL
STORMWATER PROFILE

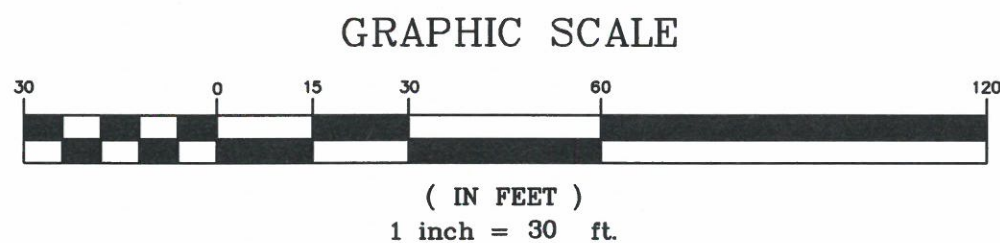
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DATE JUNE 2020
PROJ H-90A
DWG C-3
SHEET 5 OF 5



MATCH LINE PAGE 2
MATCH LINE PAGE 1



NOTE: BASE SURVEY BY BRYANT ASSOCIATES, P.C. DATE JANUARY 2020

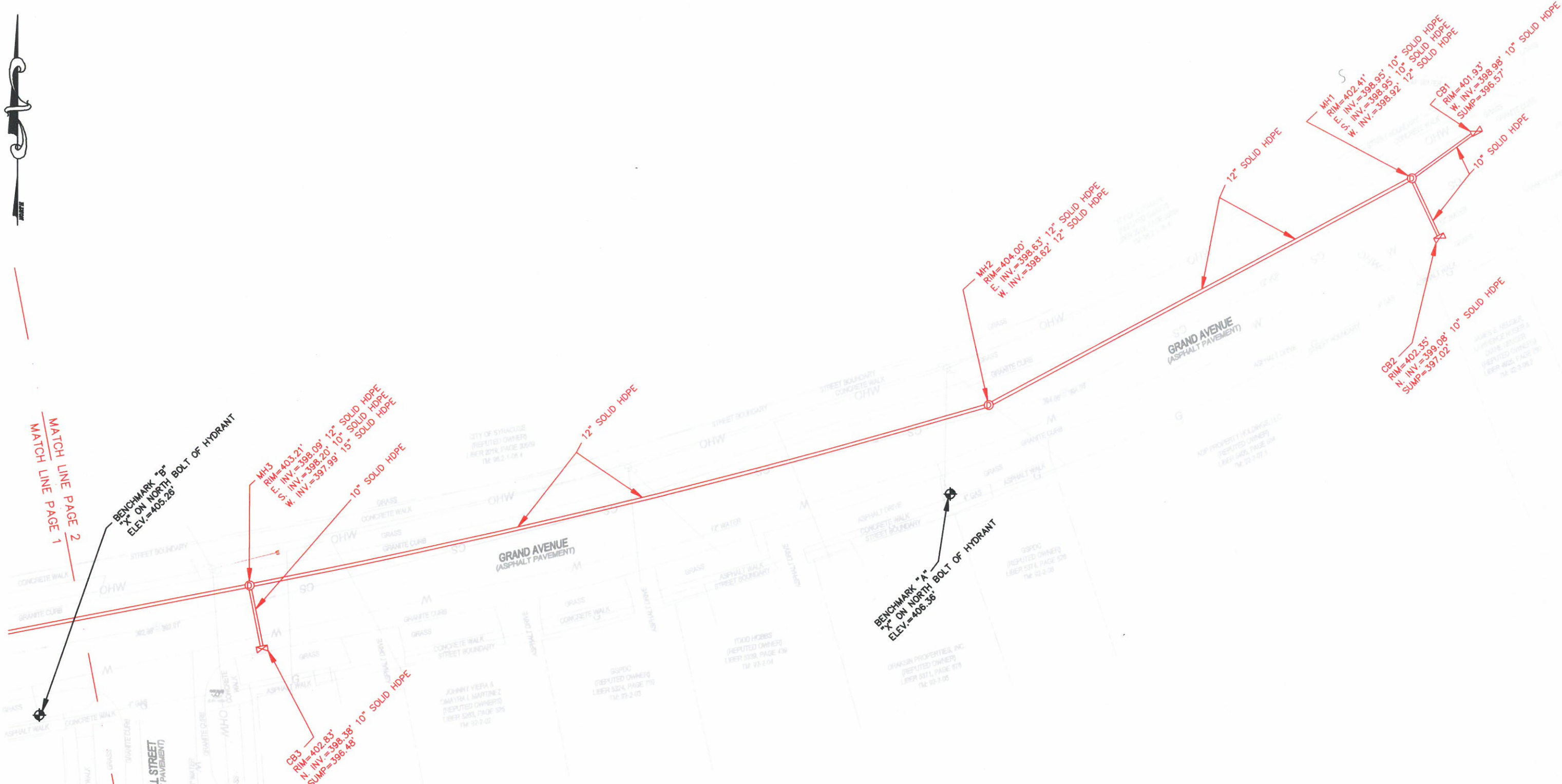


LAND LINES
SURVEYING, P.C.
6181 JAMESVILLE TOLL ROAD
JAMESVILLE, NEW YORK 13078
315-492-4604

STATE OF NEW YORK
COLIN M. KRAFT
Colin M. Kraft
LICENSED LAND SURVEYOR
050450
COLIN M. KRAFT
LICENSE No. 50450

2020-006G GRAND AVENUE
CSO 014 AND 05
STORM SEWER SEPARATION
ONONDAGA COUNTY CSO
ABATEMENT PROGRAM
CITY OF SYRACUSE
COUNTY OF ONONDAGA
STATE OF NEW YORK
PAGE 1 OF 2

DRAWN BY: WJH	DATE: 08/26/2020
SCALE: 1"=30'	DWG.No.: 200742



MATCH LINE PAGE 1
MATCH LINE PAGE 2

BENCHMARK "B"
"X" ON NORTH BOLT OF HYDRANT
ELEV.=403.28'

MH3
RIM=403.21'
I. INV.=398.09' 12" SOLID HDPE
E. INV.=398.20' 10" SOLID HDPE
W. INV.=397.99' 15" SOLID HDPE

CB1
RIM=402.83'
I. INV.=398.38' 10" SOLID HDPE
N. INV.=398.48'

MH2
RIM=404.00'
E. INV.=398.63' 12" SOLID HDPE
W. INV.=398.82' 12" SOLID HDPE

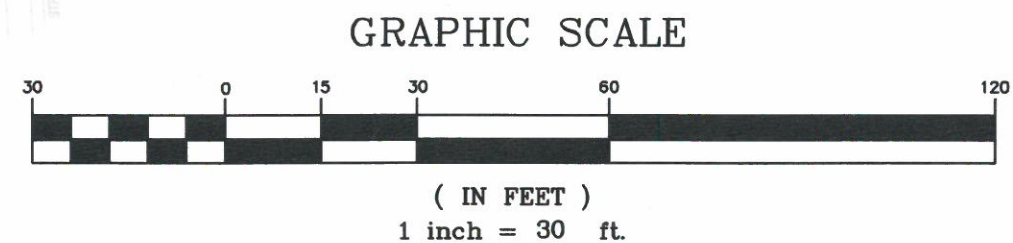
BENCHMARK "A"
"X" ON NORTH BOLT OF HYDRANT
ELEV.=406.36'

MH1
RIM=402.41'
I. INV.=398.95' 10" SOLID HDPE
E. L. I. INV.=398.95' 10" SOLID HDPE
W. INV.=398.92' 12" SOLID HDPE

CB1
RIM=401.83'
W. INV.=398.98' 10" SOLID HDPE
SUMP=398.57'

CB2
RIM=402.35'
N. INV.=399.08' 10" SOLID HDPE
SUMP=397.02'

NOTE: BASE SURVEY BY BRYANT ASSOCIATES, P.C. DATE JANUARY 2020



LAND LINES
SURVEYING, P.C.
6181 JAMESVILLE TOLL ROAD
JAMESVILLE, NEW YORK 13078
315-492-4604

COLIN M. KRAFT
LICENSE No. 50450

2020-006G GRAND AVENUE
CSO 014 AND 05
STORM SEWER SEPARATION
ONONDAGA COUNTY CSO
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CITY OF SYRACUSE
COUNTY OF ONONDAGA
STATE OF NEW YORK
PAGE 2 OF 2

DRAWN BY: WJH	DATE: 08/26/2020
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