

# Improvement Plans for MAIN CAMPUS WATERMAIN EXTENSION JOLIET JUNIOR COLLEGE City of Joliet Will County, Illinois

LEGEND	
XXXXXX	EXISTING ELEVATION
----	EXISTING CONTOUR
T/F	TOP OF FOUNDATION
F.F.	FINISHED FLOOR
OMP	CORRUGATED METAL PIPE
FES	FLARED END SECTION
T/WALL	TOP OF WALL
FL	FLOW LINE
RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE
PVC	POLYVINYL CHLORIDE PIPE
●	EXISTING UTILITY POLE
○	EXISTING GUY ANCHOR
---	EXISTING UNDERGROUND ELECTRIC LINES
---	EXISTING OVERHEAD ELECTRIC LINES
⊗	EXISTING STREET LIGHT
⊙	EXISTING VALVE & VAULT
⊕	EXISTING FIRE HYDRANT
⊖	EXISTING STORM SEWER INLET
⊗	EXISTING STORM SEWER MANHOLE
→	EXISTING STORM SEWER LINES
ST	EXISTING "SUSPECTED" STORM SEWER LINES
⊙	EXISTING CABLE TV HANDHOLE
⊕	EXISTING CABLE TV PEDISTAL
---	EXISTING UNDERGROUND CABLE TV LINES
⊕	EXISTING TELEPHONE PEDISTAL
⊙	EXISTING TELEPHONE CONTROL MANHOLE
---	EXISTING UNDERGROUND TELEPHONE LINES
---	EXISTING SIGN
---	EXISTING UNDERGROUND GAS LINES
⊕	EXISTING SIGNAL CONTROL BOX
⊕	EXISTING SIGNAL PEDISTAL
☀	EXISTING EVERGREEN TREE W/ DIAMETER
⊙	EXISTING TREE W/ DIAMETER
⊙	EXISTING BUSH W/ DIAMETER
⊙	EXISTING TRAFFIC SIGNAL
⊙	EXISTING TRAFFIC SIGNAL HANDHOLE
⊙	EXISTING GAS METER
⊙	EXISTING SANITARY SEWER MANHOLE
---	EXISTING "SUSPECTED" SANITARY SEWER LINES
---	EXISTING GUARDRAIL
⊕	EXISTING ELECTRIC BOX
⊕	EXISTING ELECTRIC HANDHOLE
⊕	EXISTING ELECTRIC OUTLET
⊕	EXISTING ELECTRIC TRANSFORMER
⊕	EXISTING GAS VALVE BOX
⊕	EXISTING LANDSCAPE LIGHT
⊕	EXISTING BUFFALO BOX
⊕	EXISTING HAND WATER PUMP
⊕	EXISTING ELECTRIC METER
---	EXISTING "SUSPECTED" UNDERGROUND WATER LINES
---	EXISTING IRRIGATION CONTROL VALVE
---	EXISTING CLEAN OUT
⊕	EXISTING TELEPHONE HANDHOLE
⊕	EXISTING LIGHT HANDHOLE
⊕	EXISTING SOIL BORING LOCATION
XXXXXX	EXISTING WATERMAIN TO BE REMOVED PER THIS PLAN
---	PROPOSED WATERMAIN WITH SIZE PER THIS PLAN
---	PROPOSED FIRE HYDRANT PER THIS PLAN
---	PROPOSED WATER VALVE AS NOTED PER THIS PLAN
---	PROPOSED CONSTRUCTION FENCE PER THIS PLAN
---	PROPOSED EROSION CONTROL SILT FENCE PER THIS PLAN
⊕	PROPOSED PROTECTION OF EXISTING TREE
⊕	PROPOSED MALET FILTER BASKET



**SITE LOCATION MAP**  
NOT TO SCALE

INDEX OF ENGINEERING SHEETS	
SHEET No.	DESCRIPTION
1.)	COVER SHEET
2.)	PLAN AND PROFILE OF PROPOSED WATERMAIN EXTENSION (1 OF 4)
3.)	PLAN AND PROFILE OF PROPOSED WATERMAIN EXTENSION (2 OF 4)
4.)	PLAN AND PROFILE OF PROPOSED WATERMAIN EXTENSION (3 OF 4)
5.)	PLAN AND PROFILE OF PROPOSED WATERMAIN EXTENSION (4 OF 4)
6.)	GENERAL NOTES AND CONSTRUCTION DETAILS

**NOTE: DUE TO THE UNCERTAINTY OF SEASONAL GROUND WATER TABLES AND THE GEOPHYSICAL CONDITIONS AFFECTING GROUND WATER MOVEMENT, RUETTIGER, TONELLI & ASSOCIATES TAKES NO RESPONSIBILITY FOR THE MANAGEMENT OF GROUND WATER ASSOCIATED WITH SUB-GRADE CONSTRUCTION, BASEMENTS OR OTHER LIKE FACILITIES CONSTRUCTED BELOW THE FINISHED SURFACE GRADE OF THE PROPERTY ARE AT THE RISK OF THE BUILDER/OWNER.**

**LAND SURVEYOR / ENGINEER:**  
RUETTIGER, TONELLI & ASSOCIATES, INC.  
129 CAPISTA DRIVE  
SHOREWOOD, ILLINOIS 60404  
Ph. (815) 744-6600

**OWNER / DEVELOPER:**  
JOLIET JUNIOR COLLEGE  
1215 HOUBOLT ROAD  
JOLIET, ILLINOIS 60431  
CONTACT: PHIL THEILE  
Ph. (815) 280-2889

**SITE BENCHMARK 1:**  
HEAD BOLT ON FIRE HYDRANT THAT POINTS TO, LOCATED APPROXIMATELY 740' SOUTH OF MAIN CAMPUS EXIT ROAD ONTO HOUBOLT ROAD.  
ELEVATION: 602.75 (NAVD 88)  
**SITE BENCHMARK 2:**  
CUT CROSS TOP OF CONCRETE PAD BY ELECTRIC PANELS LOCATED TO THE EAST OF THE BASEBALL FIELD PRESS BOX.  
ELEVATION = 564.18 (NAVD 88)  
FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.

I, JOSEPH P. HAMMER, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF ILLINOIS, HEREBY CERTIFY THAT THESE IMPROVEMENT PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION BY RUETTIGER, TONELLI & ASSOCIATES, INC., ILLINOIS PROFESSIONAL DESIGN FIRM No. 184-001251.  
DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_  
JOSEPH P. HAMMER IL P.E. No. 062-053186 (EXPIRES 11-30-2015)  
TO ENSURE AUTHENTICITY OF THIS DRAWING, IT MUST BEAR THE EMBOSSED SEAL OF THE DESIGN FIRM OR PROFESSIONAL LICENSEE WHO PREPARED THIS DRAWING.

**Call Before You Dig**



CONTACT J.U.L.I.E. at 811 or 800-892-0123  
48 Hours (2 Working Days) BEFORE YOU DIG.  
Include the following:  
County, City/Township, Section & ¼ Section No.

REVISIONS			
No.	DATE	DESCRIPTION	BY
0	3-16-2015	ISSUED FOR REVIEW	R.P.
1	5-8-2015	ADDENDUM 1	R.P.

**DOCUMENTATION:**  
PROJECT No.: 20150152.00  
DATE: 3-12-2015  
FIELD BOOK: JJC2, P. 50  
DRAWN BY: R.P.  
CHECKED BY: J.H.

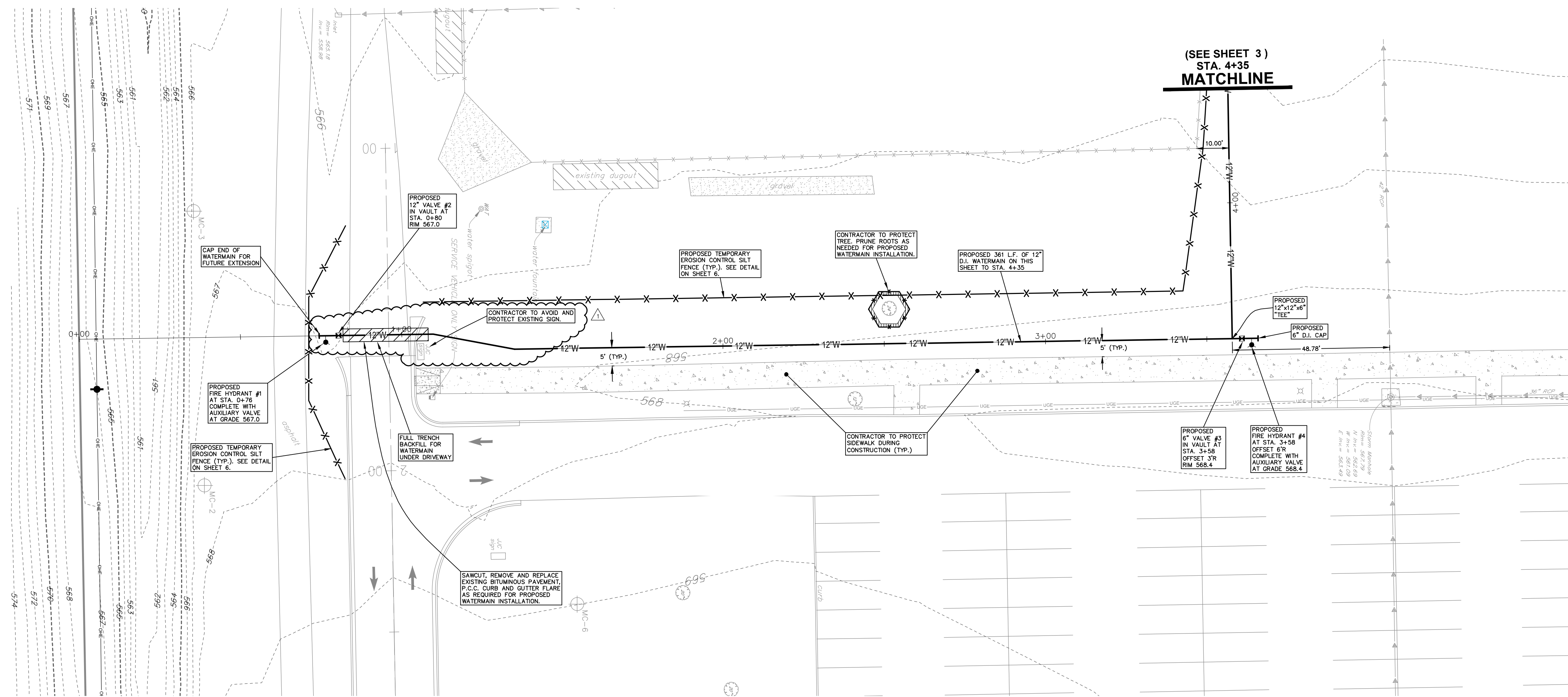


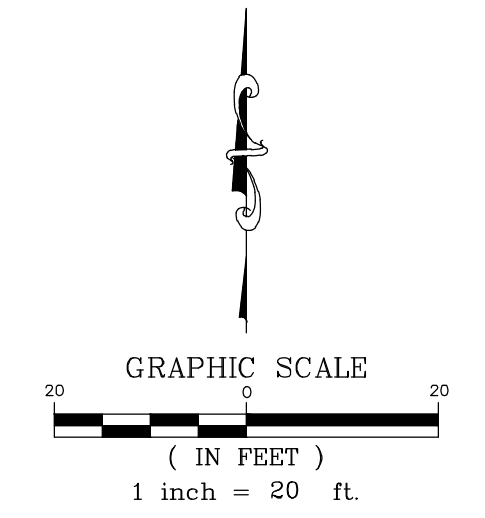
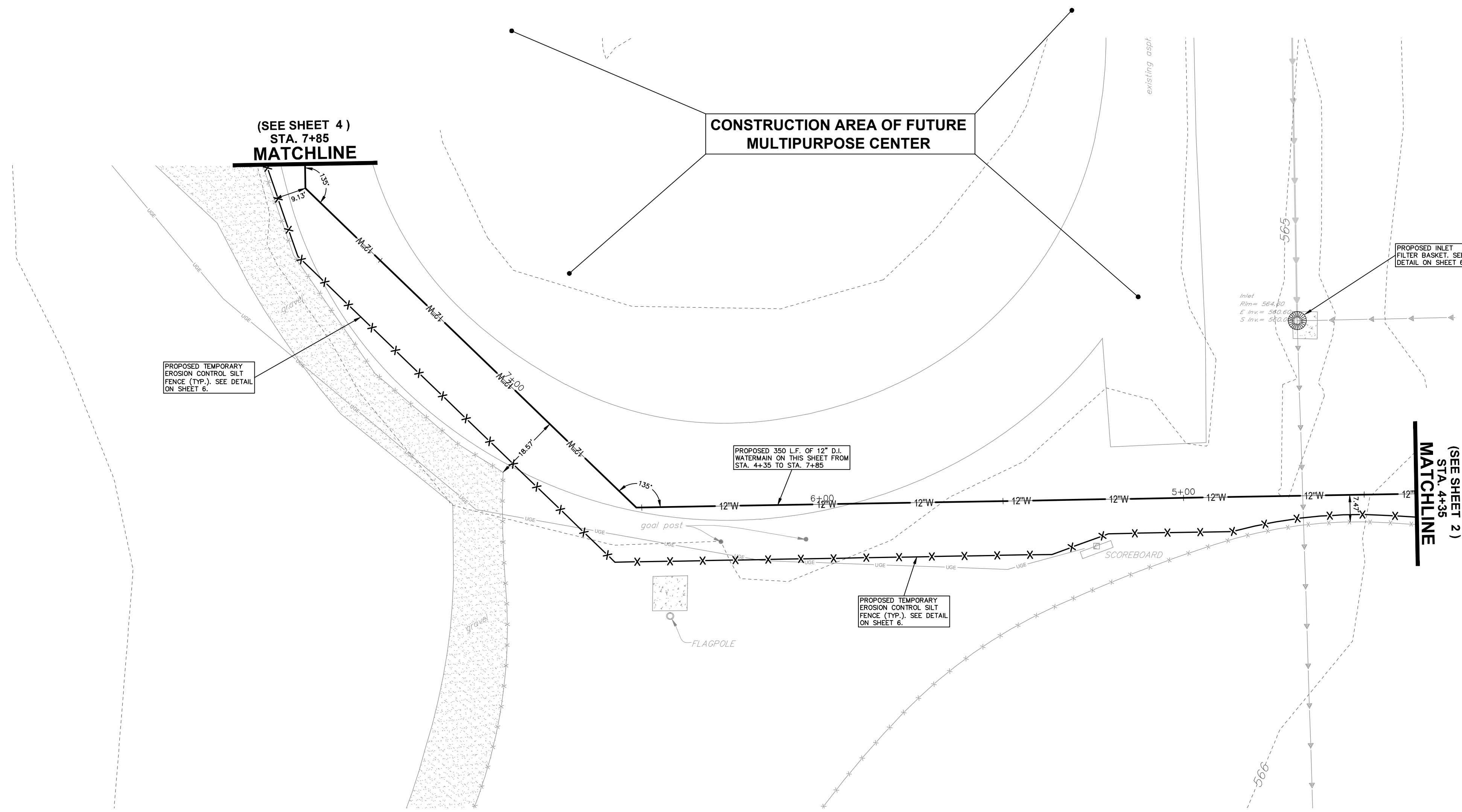
**Ruettiger, Tonelli & Associates, Inc.**  
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants  
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
PH. (815) 744-6600 FAX (815) 744-0101  
website: www.ruettigertonelli.com

**PROJECT TITLE:**  
**JOLIET JUNIOR COLLEGE  
MAIN CAMPUS WATERMAIN EXTENSION  
1215 HOUBOLT ROAD  
JOLIET, ILLINOIS 60431**

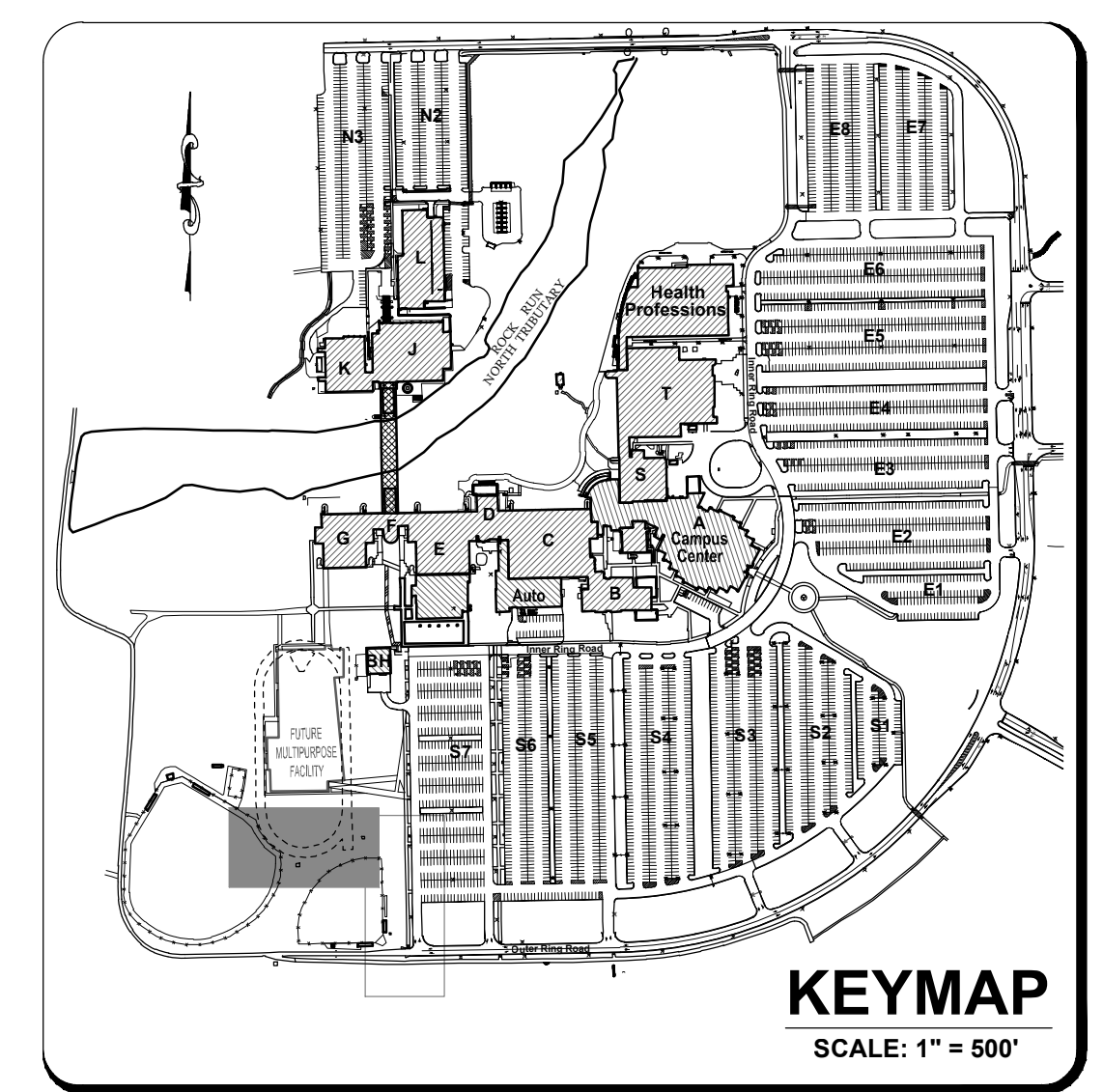
**DRAWING TITLE:**  
**COVER SHEET**

**DRAWING No.**  
315-0152-C1  
**SCALE:**  
AS NOTED  
**ENGINEERING DEPARTMENT**  
SHEET 1 OF 6

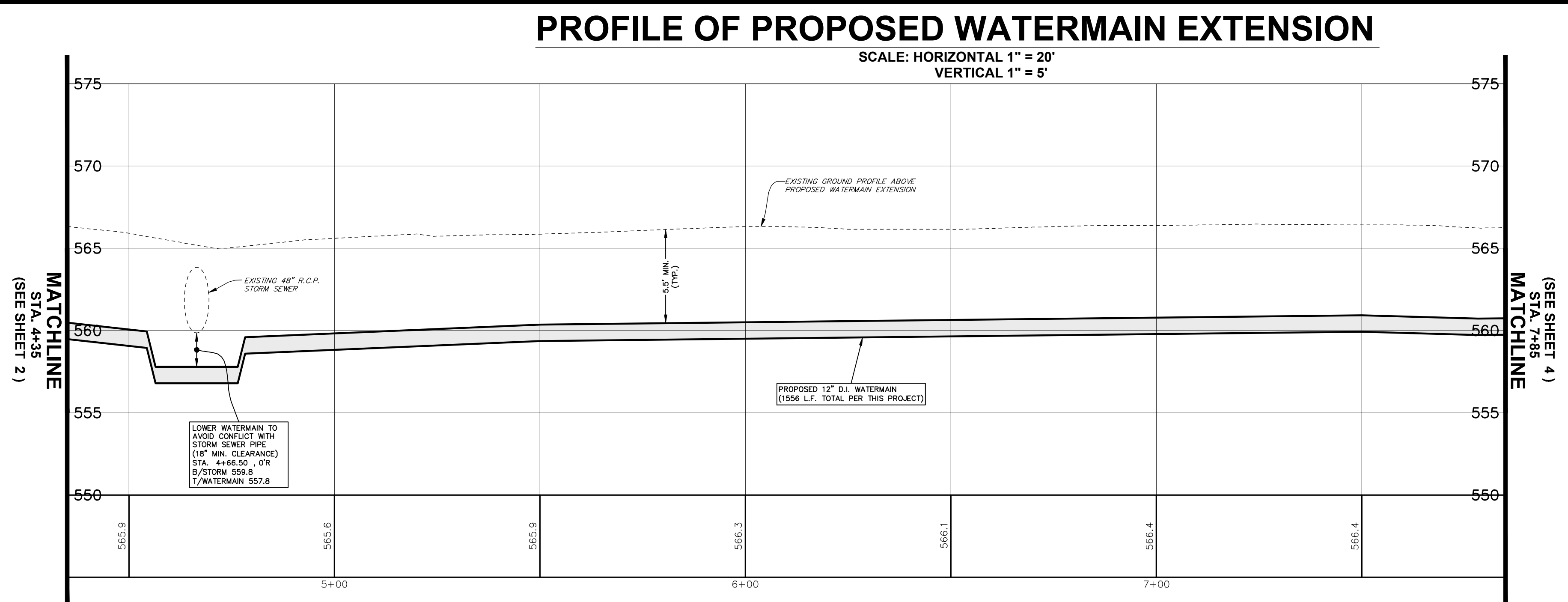




- 1.) EXISTING CONDITIONS SHOWN HEREON ARE FROM SURVEYS BY R.T. & A. (2008-2015) DURING VARIOUS PHASES OF CAMPUS CONSTRUCTION AND FROM PREVIOUSLY PROPOSED IMPROVEMENT PLANS BY R.T. & A. (2008-2011). FIELD VERIFY EXACT LOCATIONS PRIOR TO ANY CONSTRUCTION. EXISTING UNDERGROUND UTILITIES WERE LOCATED BY USING PHYSICAL EVIDENCE, UTILITY COMPANY MAPS AND L.P. LOCATIONS MAPS AND THEREFORE THEIR LOCATIONS ARE APPROXIMATE AND SUSPECTED AND MAY NOT BE COMPLETELY ACCURATE. FOR MORE ACCURATE LOCATION, FIELD EXCAVATE.
- 2.) SEE SHEET 1 FOR MASTER LEGEND.
- 3.) CONTRACTOR TO RESTORE ALL DISTURBED AREAS WITH 6" OF TOPSOIL, SEEDING AND EROSION CONTROL BLANKET.
- 4.) CONTRACTOR WILL BE SUBJECT TO THE REQUIREMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN ACTIVE ON CAMPUS.
- 5.) CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.



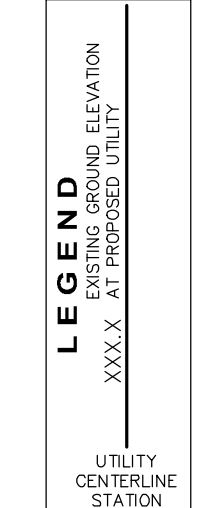
**PLAN OF PROPOSED WATERMAIN EXTENSION**  
SCALE: 1" = 20'



**SITE BENCHMARK 1:**  
HEAD BOLT ON FIRE HYDRANT THAT ARROW POINTS TO, LOCATED APPROXIMATELY 740' SOUTH OF MAIN CAMPUS EXIT ROAD ONTO HOUBOLT ROAD.  
ELEVATION = 607.75 (NAVD 88)

**SITE BENCHMARK 2:**  
OUT CROSS TOP OF CONCRETE PAD BY ELECTRIC PANELS LOCATED TO THE EAST OF THE BASEBALL FIELD PRESS BOX.  
ELEVATION = 564.18 (NAVD 85)

FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.



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No.	DATE	DESCRIPTION	BY

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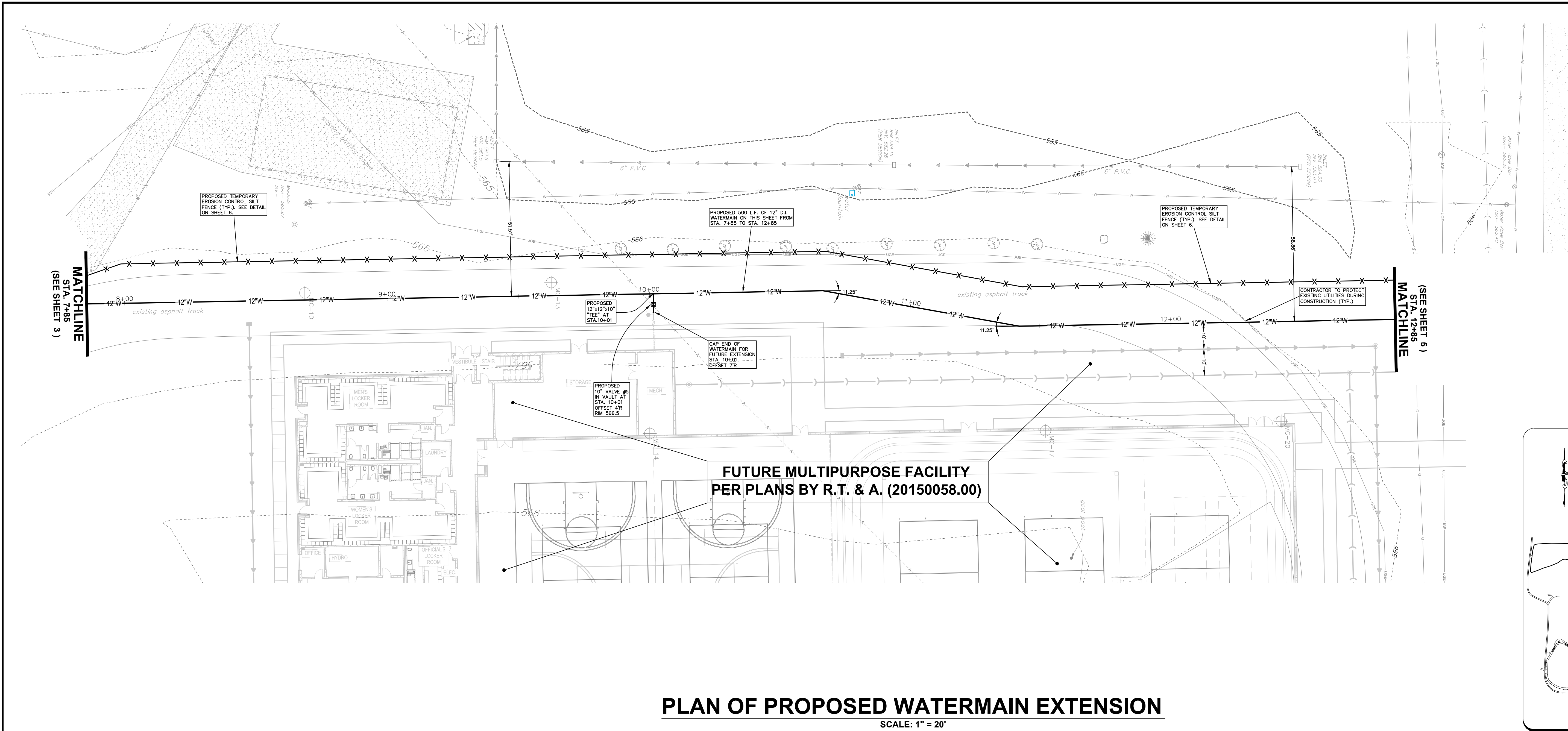
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1215 HOUBOLT ROAD  
JOLIET, ILLINOIS 60431

DRAWING TITLE:  
**PLAN AND PROFILE OF  
PROPOSED WATERMAIN  
EXTENSION (2 OF 4)**

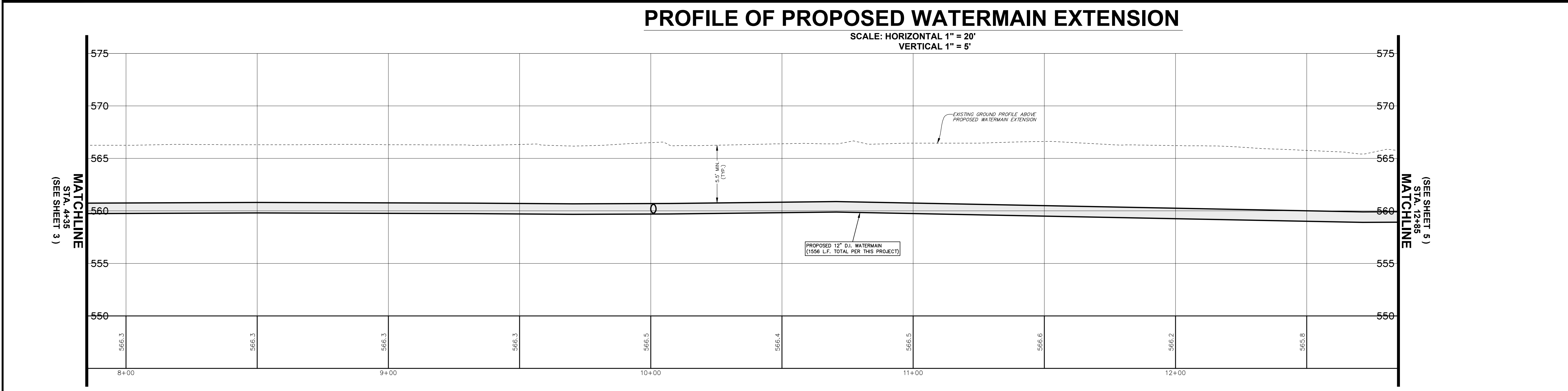
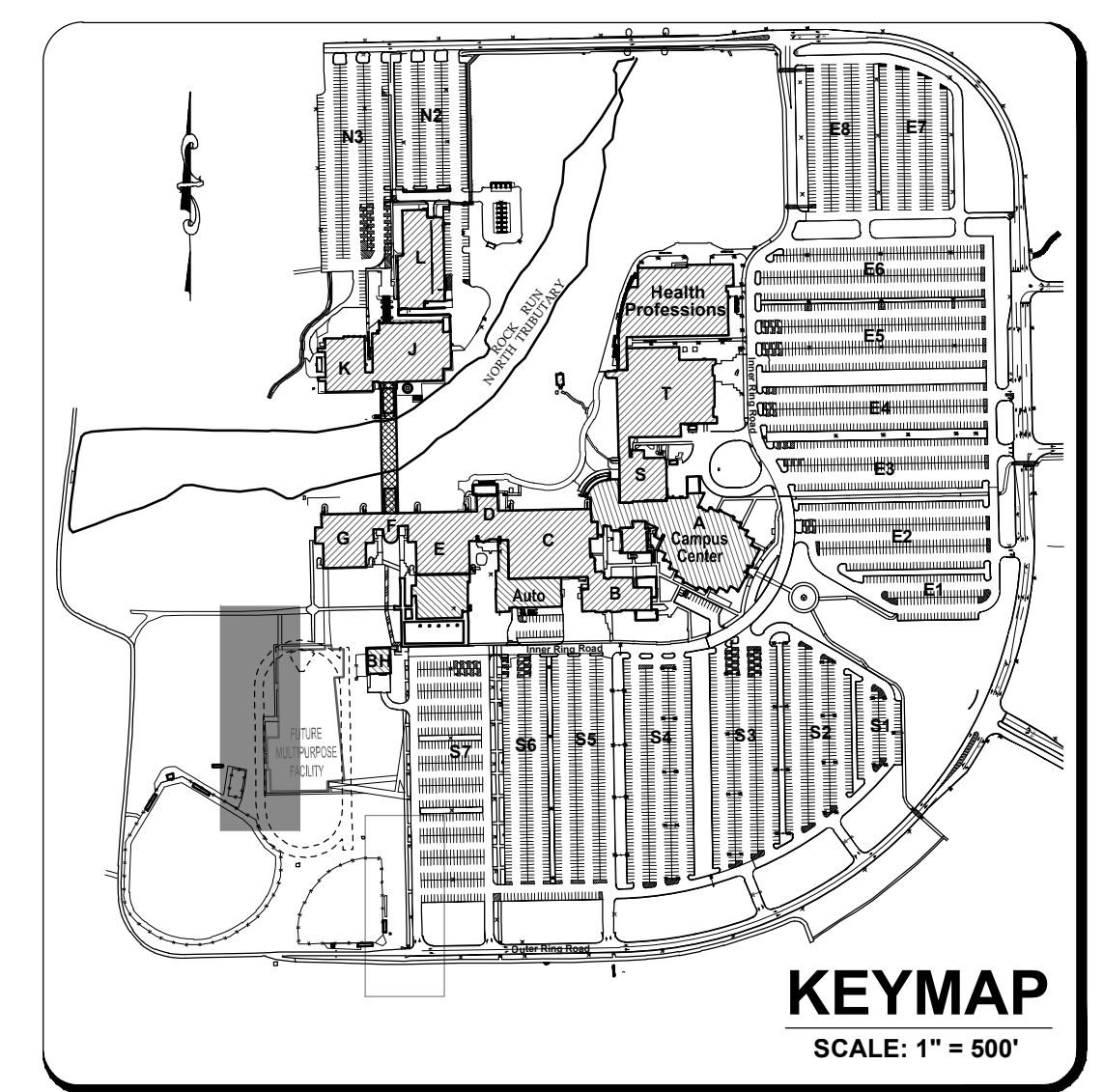
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315-0152-C1  
SCALE:  
AS NOTED  
ENGINEERING DEPARTMENT  
SHEET 3 OF 6

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**GRAPHIC SCALE**  
1 inch = 20 ft.

- EXISTING CONDITIONS SHOWN HEREON ARE FROM SURVEYS BY R.T. & A. (2008-2015) DURING VARIOUS PHASES OF CAMPUS CONSTRUCTION AND FROM PREVIOUSLY PROPOSED IMPROVEMENT PLANS BY R.T. & A. (2008-2011). FIELD VERIFY EXACT LOCATIONS PRIOR TO ANY CONSTRUCTION. EXISTING UNDERGROUND UTILITIES WERE LOCATED BY USING PHYSICAL EVIDENCE, UTILITY COMPANY MAPS AND I.F. LOCATIONS MAPS AND THEREFORE THEIR LOCATIONS ARE APPROXIMATE AND SUSPECTED AND MAY NOT BE COMPLETELY ACCURATE. FOR MORE ACCURATE LOCATION, FIELD EXCAVATE.
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FIELD VERIFY BENCHMARK WITH BENCHMARK LIST.

**LEGEND**

--- ELEVATION  
 XXX.X AT PROPOSED UTILITY  
 --- UTILITY CENTERLINE  
 --- STATION

**REVISIONS**

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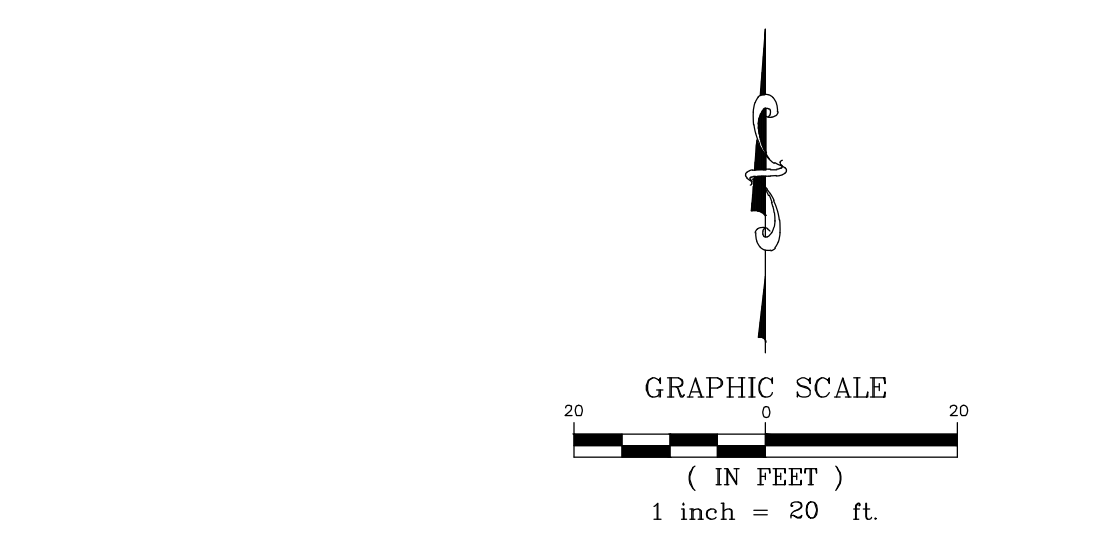
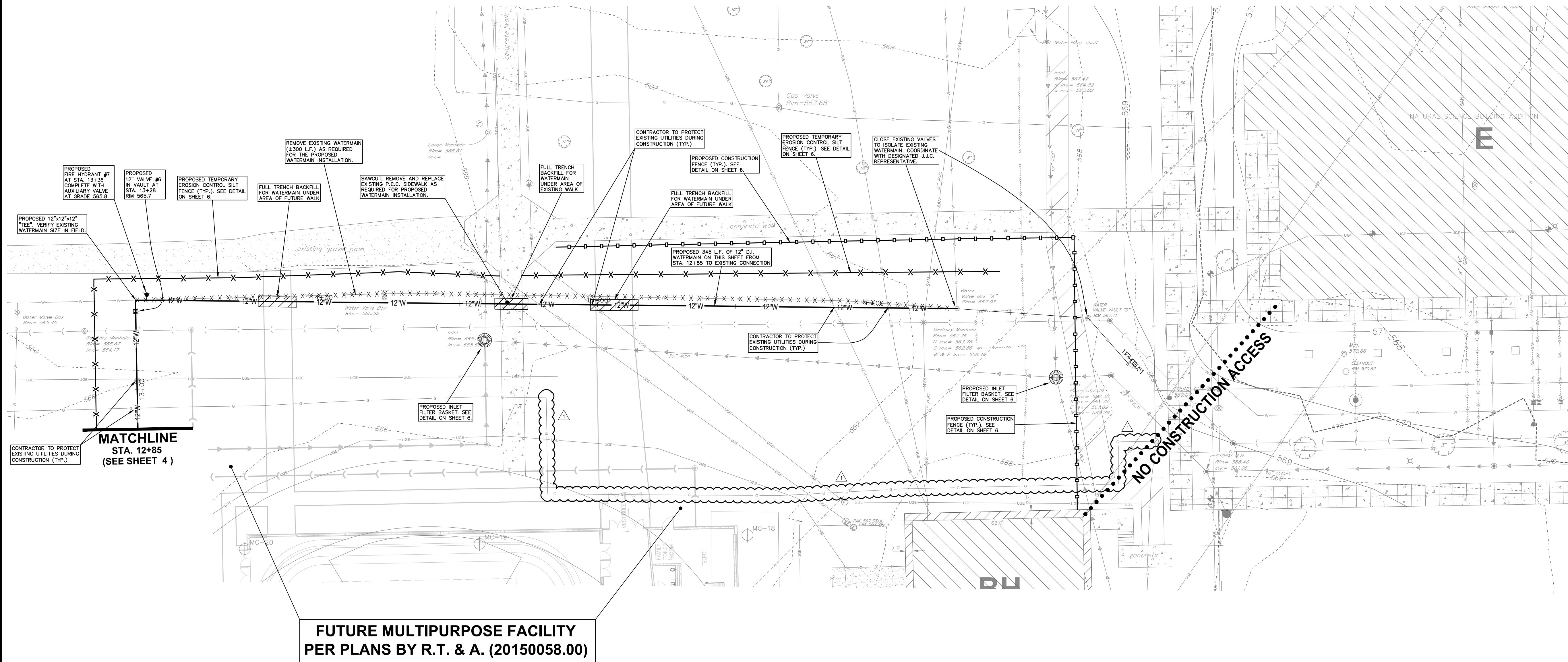
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**PLAN AND PROFILE OF  
 PROPOSED WATERMAIN  
 EXTENSION (3 OF 4)**

**DRAWING No.**  
315-0152-C1

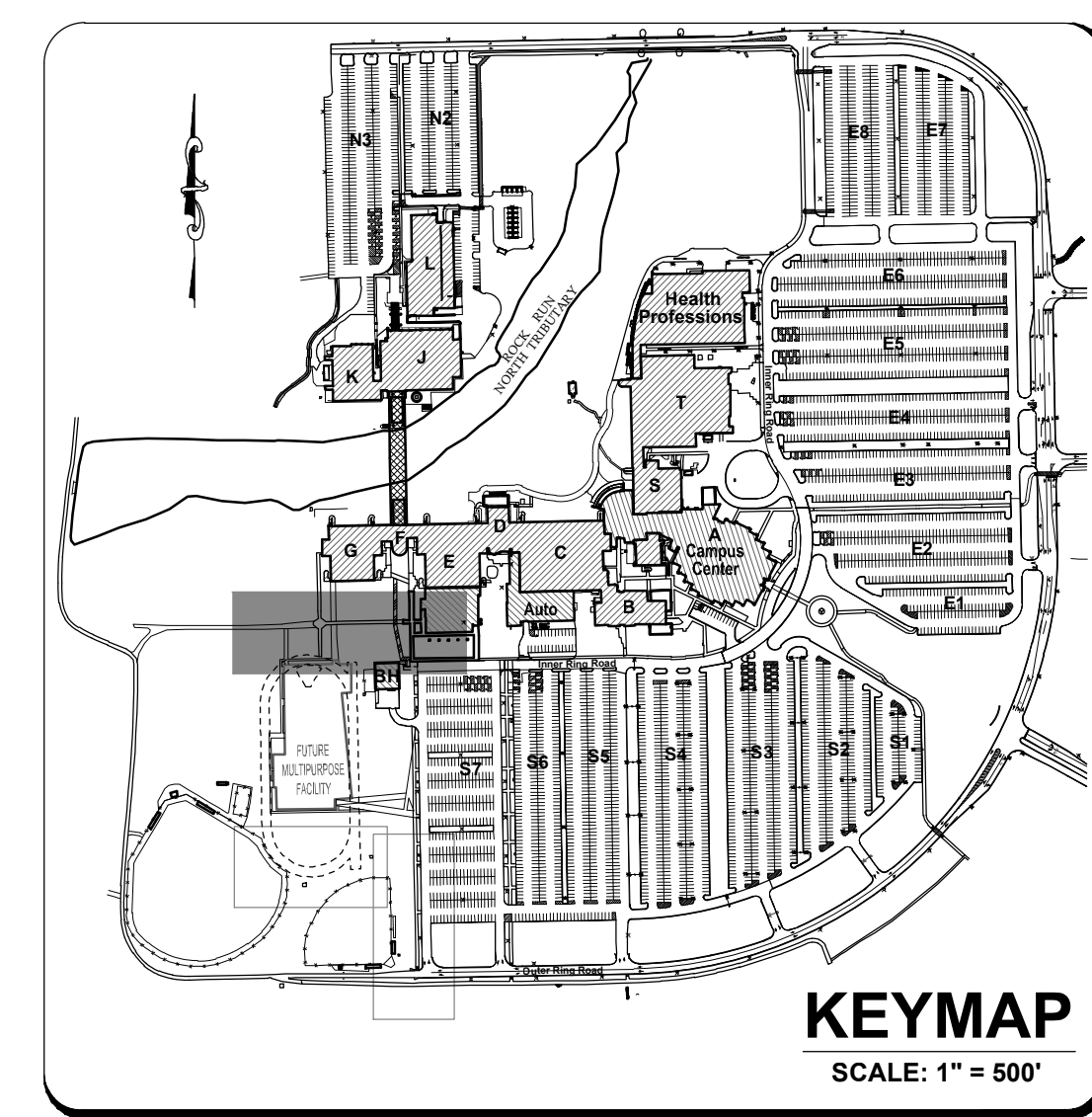
**SCALE:**  
AS NOTED

**ENGINEERING DEPARTMENT**  
SHEET 4 OF 6

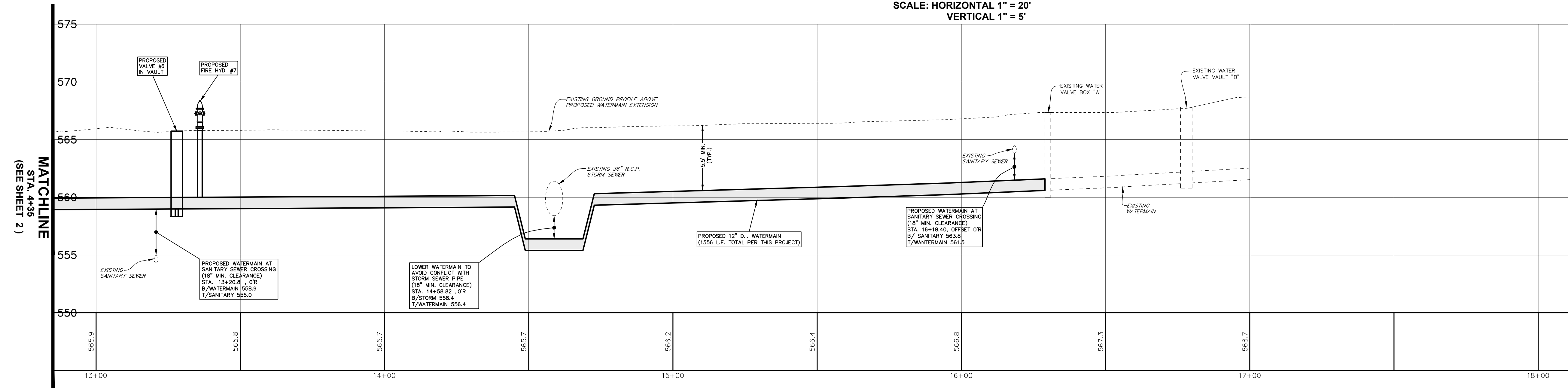
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**PROFILE OF PROPOSED WATERMAIN EXTENSION**  
SCALE: HORIZONTAL 1" = 20' VERTICAL 1" = 5'



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1	5-8-2015	ADDENDUM 1	R.P.

DOCUMENTATION:  
PROJECT No.: 20150152.00  
DATE: 3-12-2015  
FIELD BOOK: JJC2, P. 50  
DRAWN BY: R.P.  
CHECKED BY: J.H.

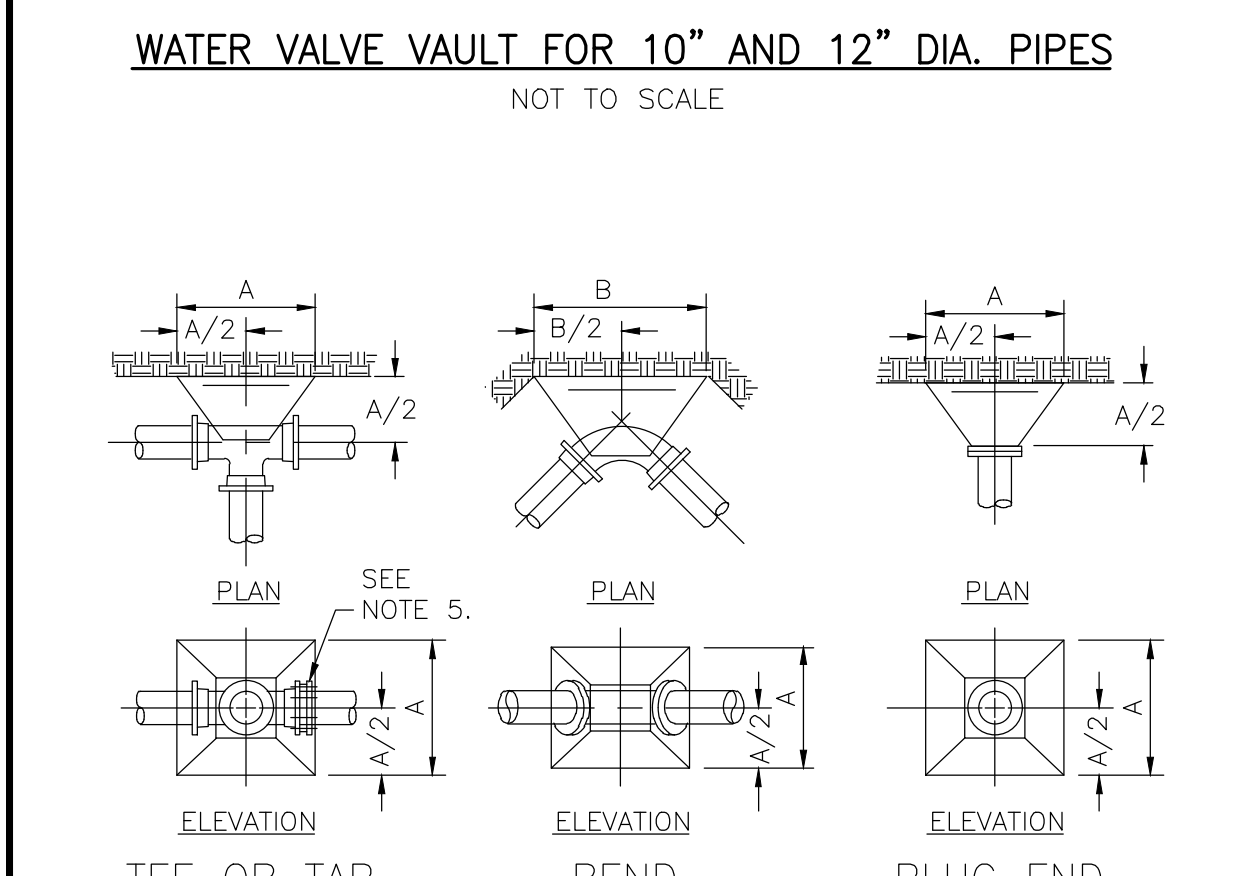
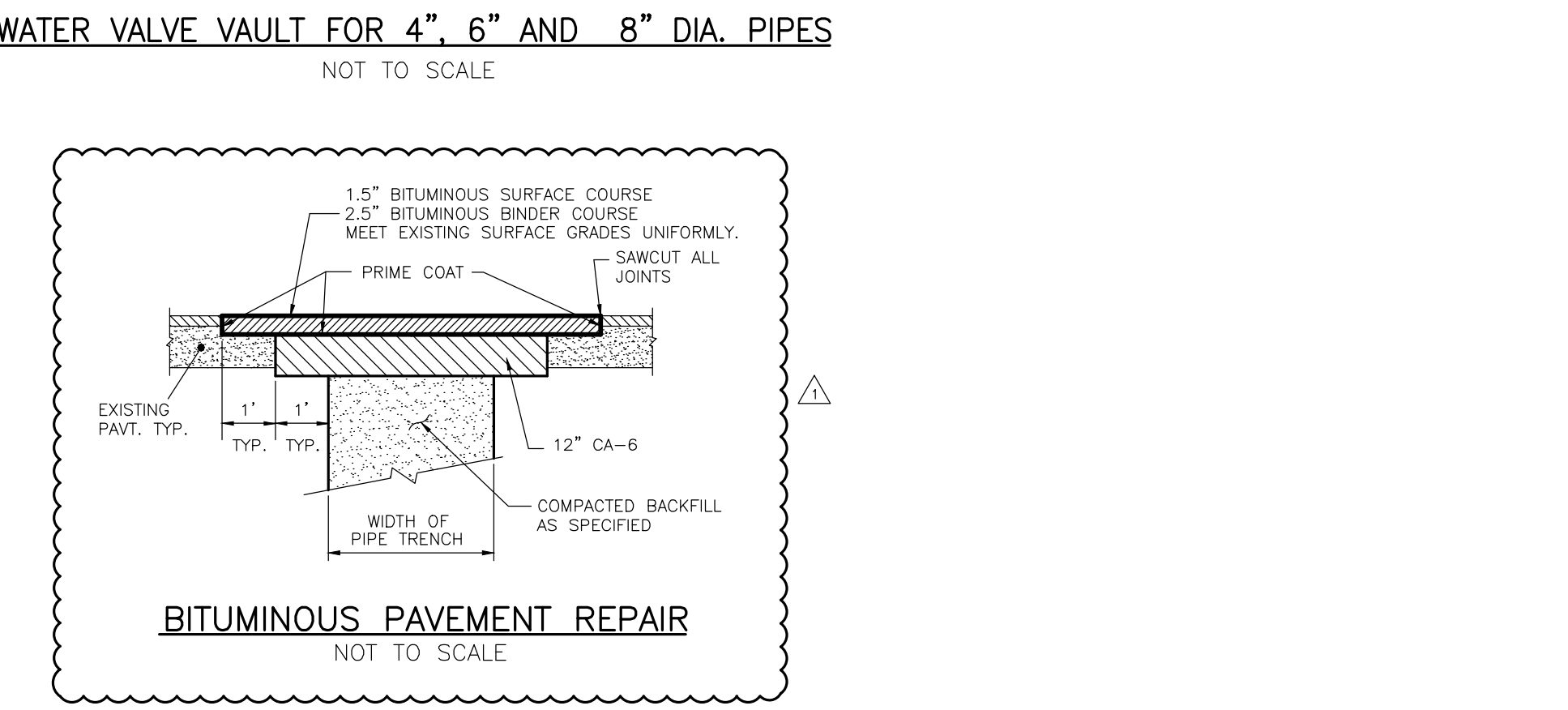
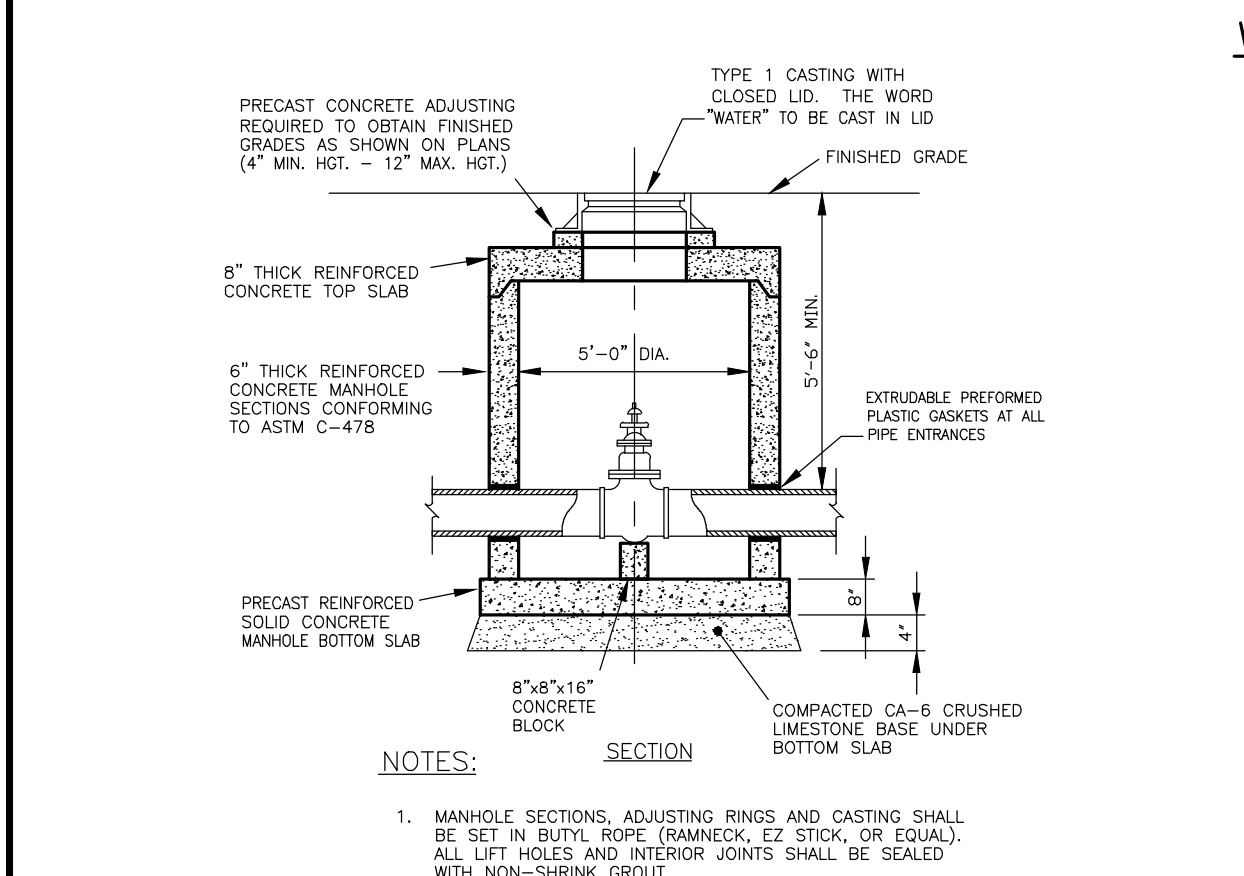
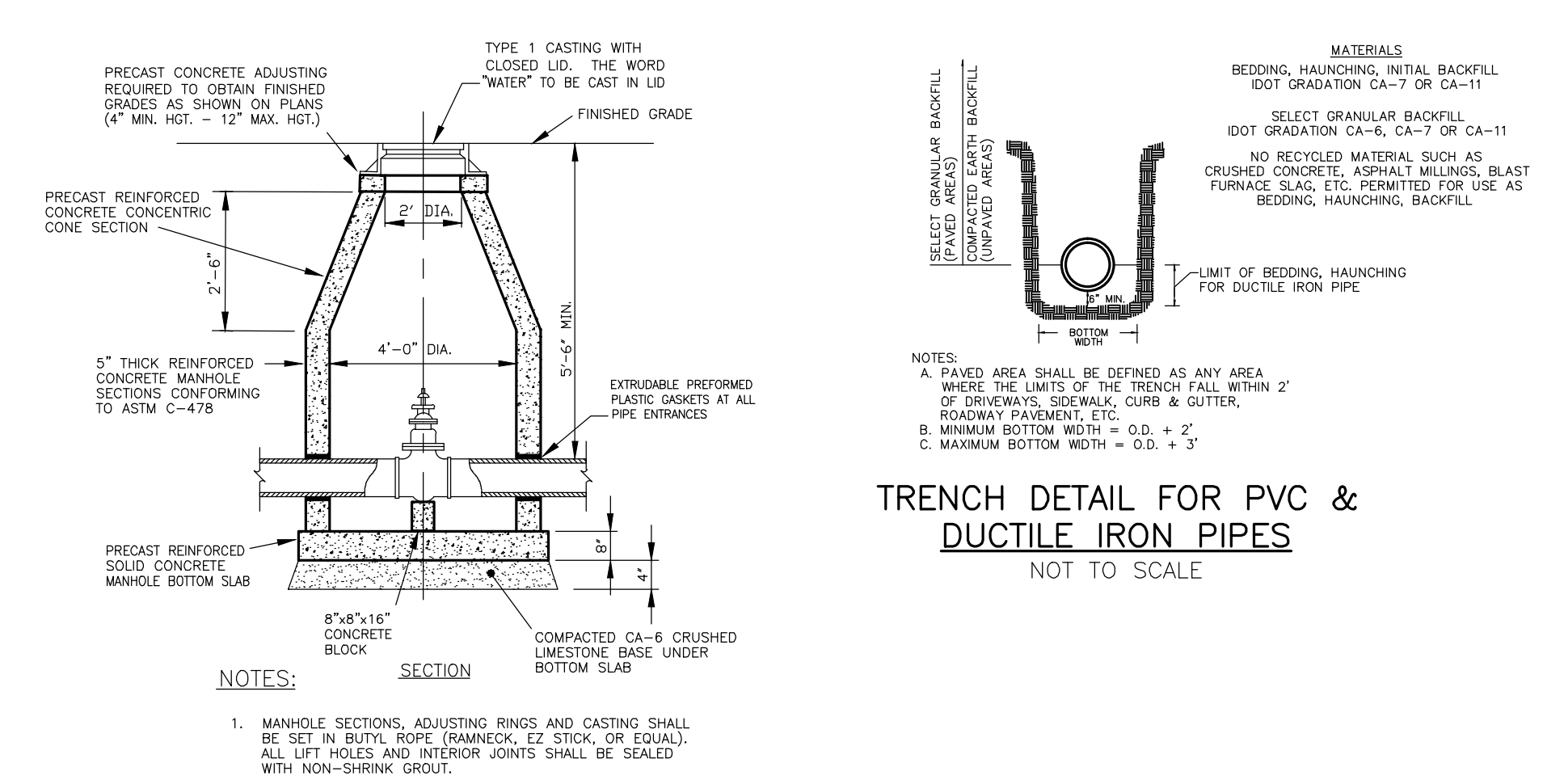
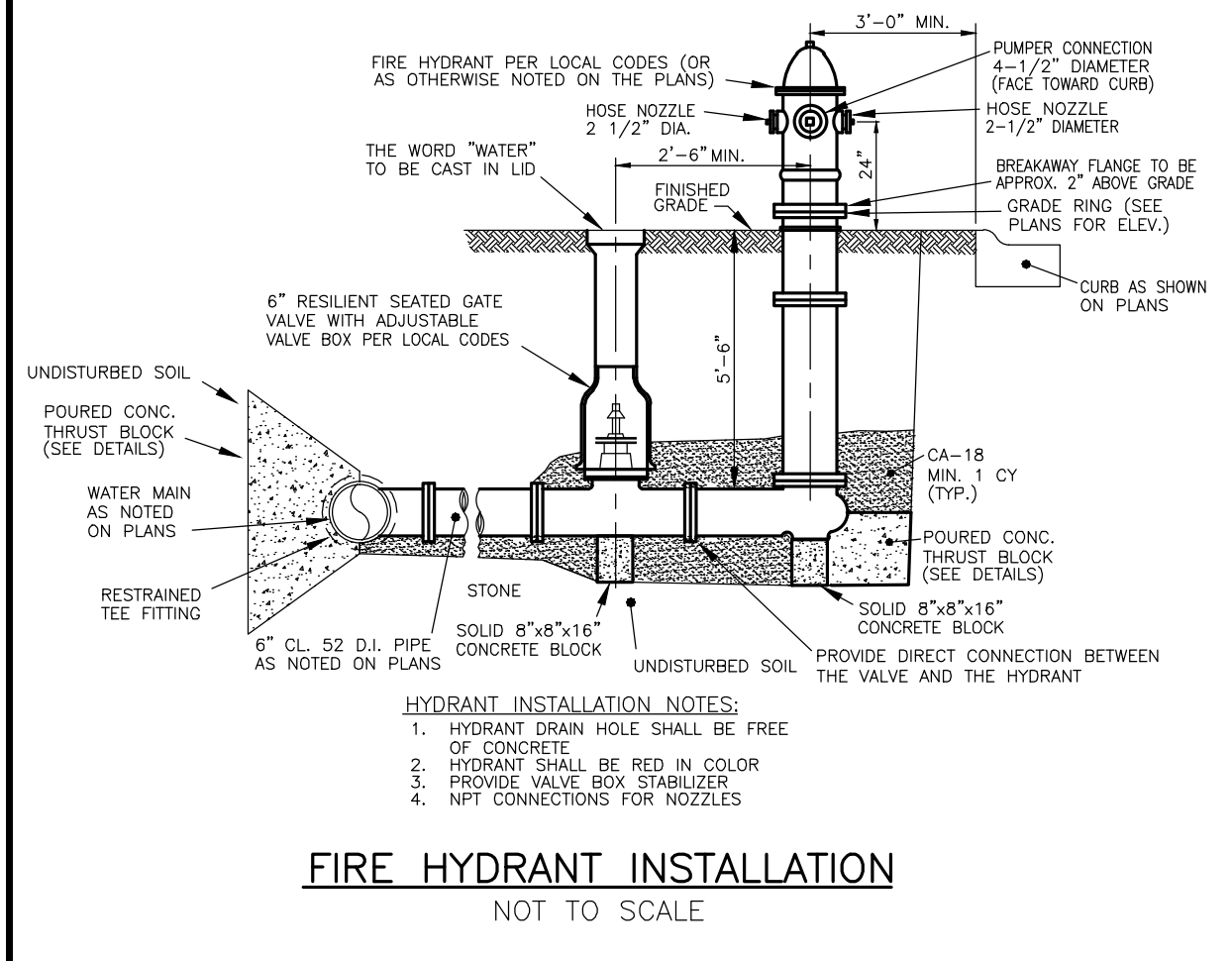
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1215 HOUBOLT ROAD  
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DRAWING TITLE:  
**PLAN AND PROFILE OF  
PROPOSED WATERMAIN  
EXTENSION (4 OF 4)**

DRAWING No.: 315-0152-C1  
SCALE: AS NOTED  
ENGINEERING DEPARTMENT  
SHEET 5 OF 6

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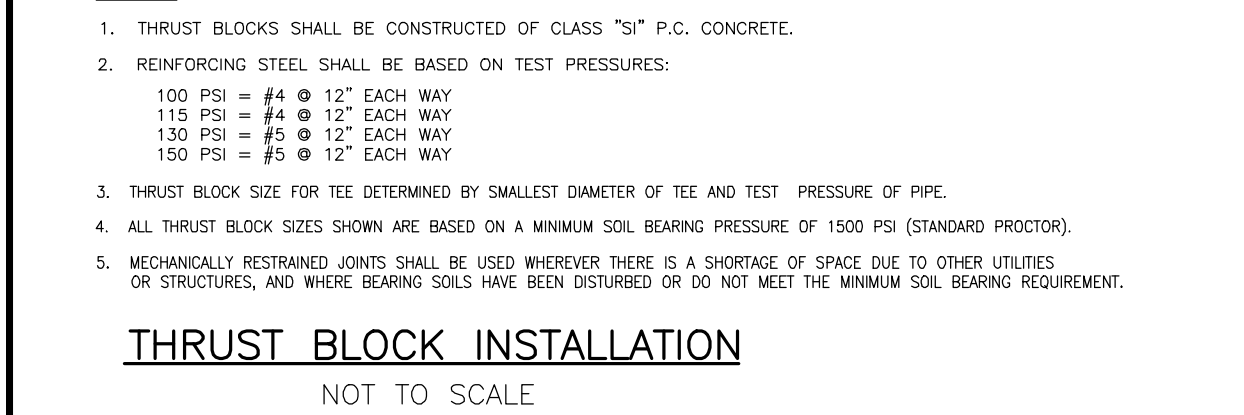


**TABLE OF "A" DIMENSIONS (IN FEET)**

TEST PRESSURE (P.S.I.)	4"	6"	8"	10"	12"	16"
115	1'-3"	1'-7"	2'-1"	2'-7"	3'-1"	4'-4"
100	1'-2"	1'-6"	2'-0"	2'-6"	3'-0"	4'-3"
130	1'-3"	1'-8"	2'-3"	2'-9"	3'-4"	4'-7"
150	1'-4"	1'-11"	2'-6"	3'-2"	3'-9"	4'-11"

**TABLE OF "B" DIMENSIONS (IN FEET)**

TEST PRESSURE (P.S.I.)	BEND (DEGREES)	4"	6"	8"	10"	12"	16"
100	90	1'-4"	1'-8"	2'-4"	3'-0"	3'-5"	5'-10"
	45	1'-0"	1'-4"	1'-9"	2'-2"	2'-7"	4'-4"
115	90	1'-5"	1'-11"	2'-6"	3'-1"	3'-8"	6'-3"
	45	1'-1"	1'-5"	1'-10"	2'-3"	2'-8"	4'-8"
130	90	1'-6"	2'-0"	2'-5"	3'-0"	3'-7"	6'-4"
	45	1'-2"	1'-6"	2'-1"	2'-6"	3'-1"	4'-11"
150	90	1'-7"	2'-1"	2'-7"	3'-2"	3'-9"	7'-2"
	45	1'-3"	1'-7"	2'-2"	2'-7"	3'-2"	5'-3"



**REVISIONS**

No.	DATE	DESCRIPTION	BY
0	3-16-2015	ISSUED FOR REVIEW	R.P.
1	5-8-2015	ADDENDUM 1	R.P.

**DOCUMENTATION:**

PROJECT No.: 20150152.00  
DATE: 3-12-2015  
FIELD BOOK: JJC2, P. 50  
DRAWN BY: R.P.  
CHECKED BY: J.H.



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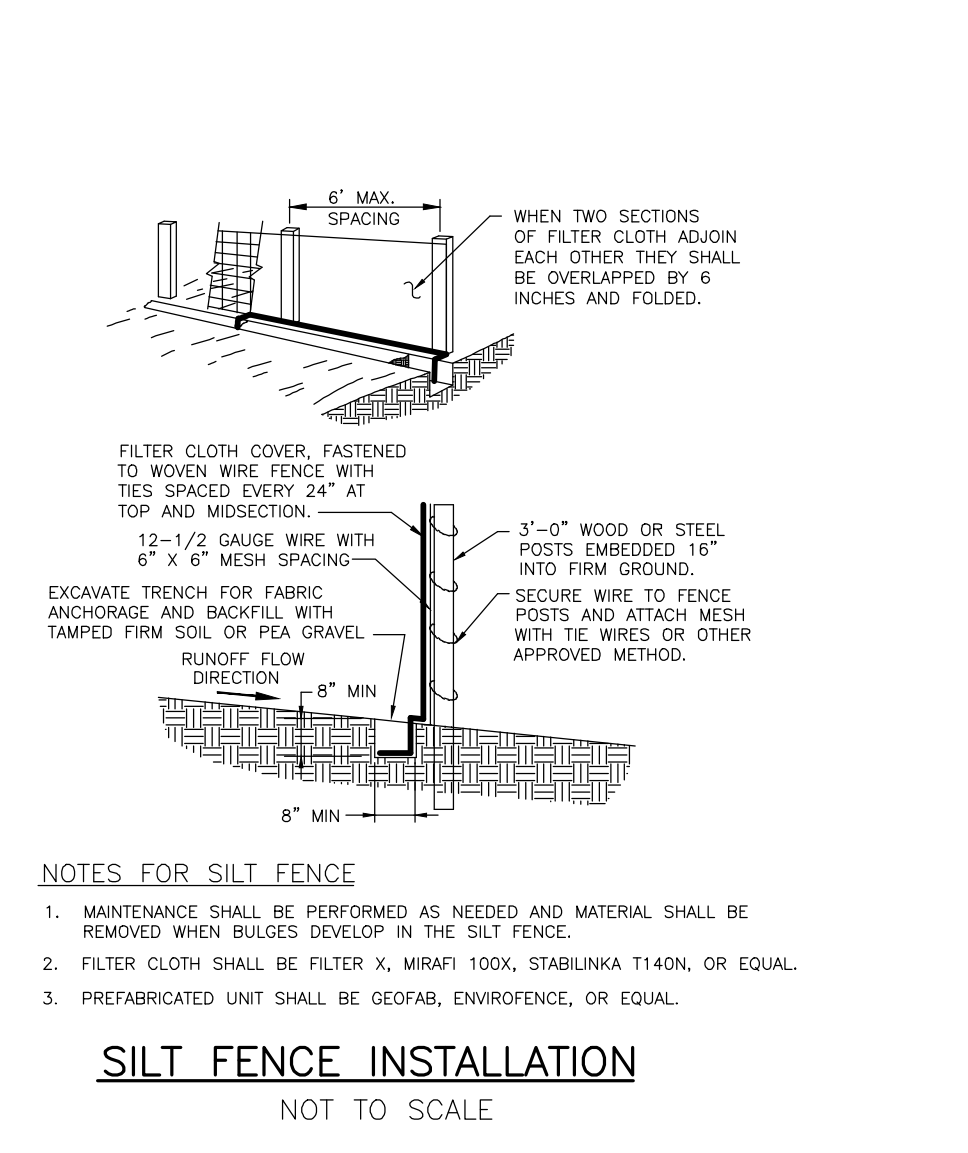
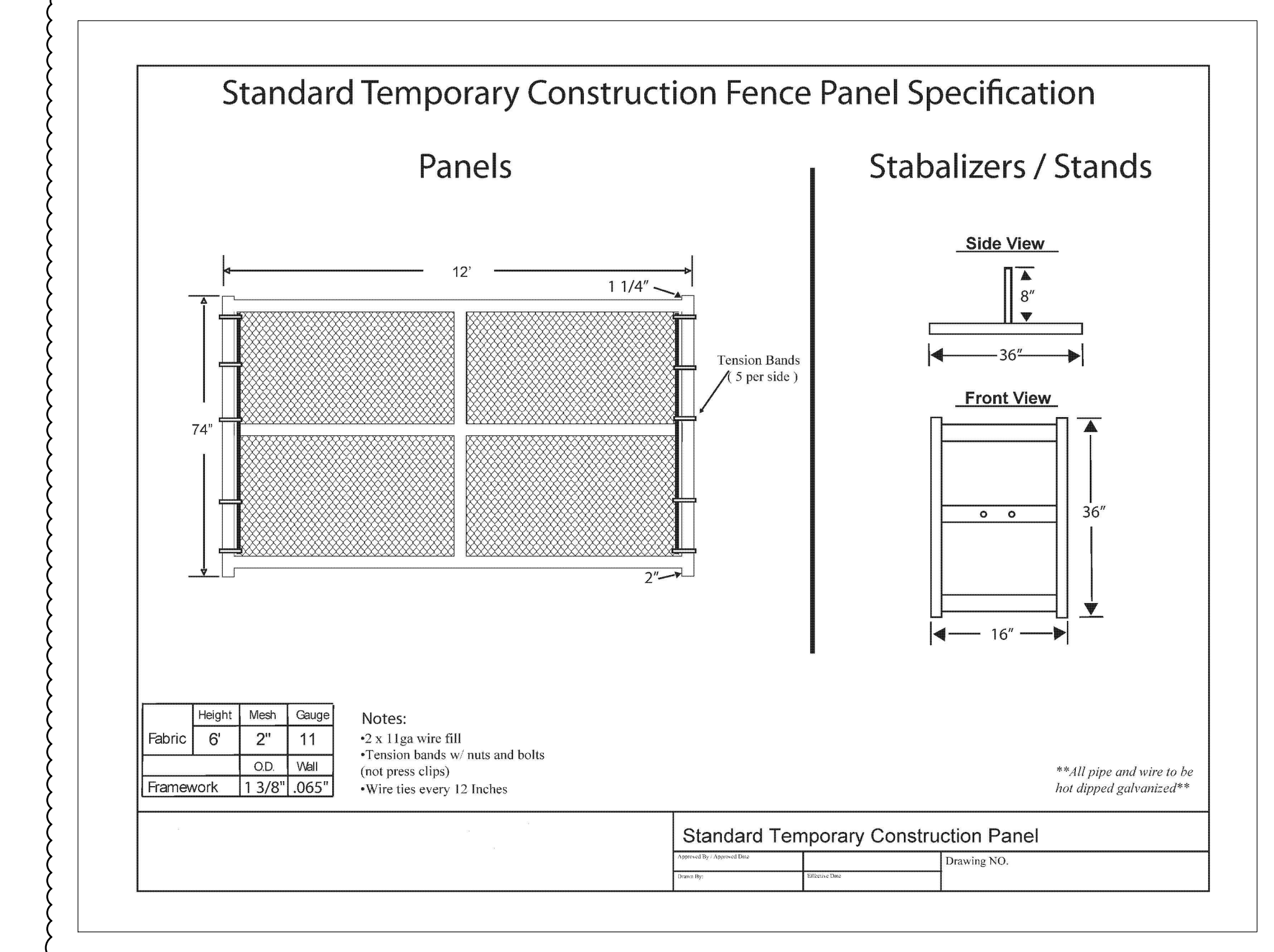
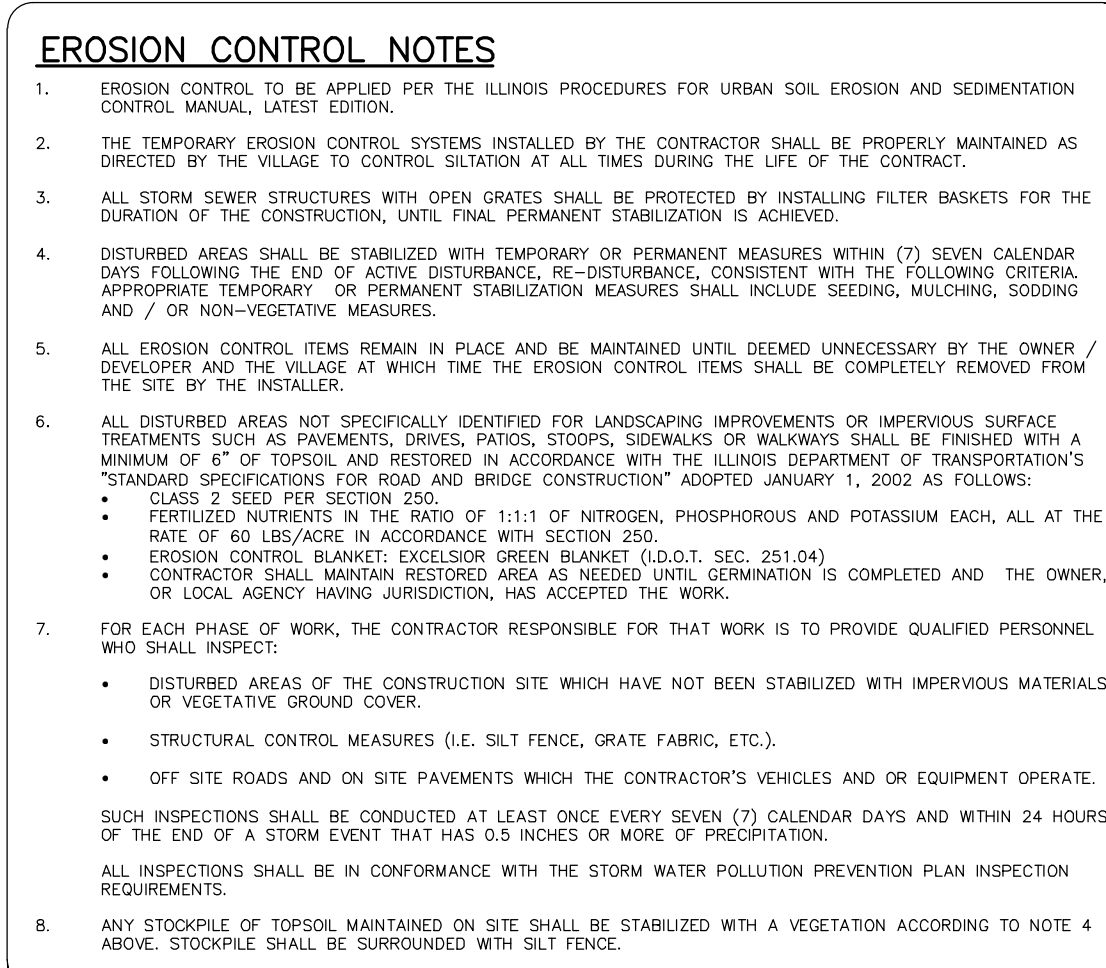
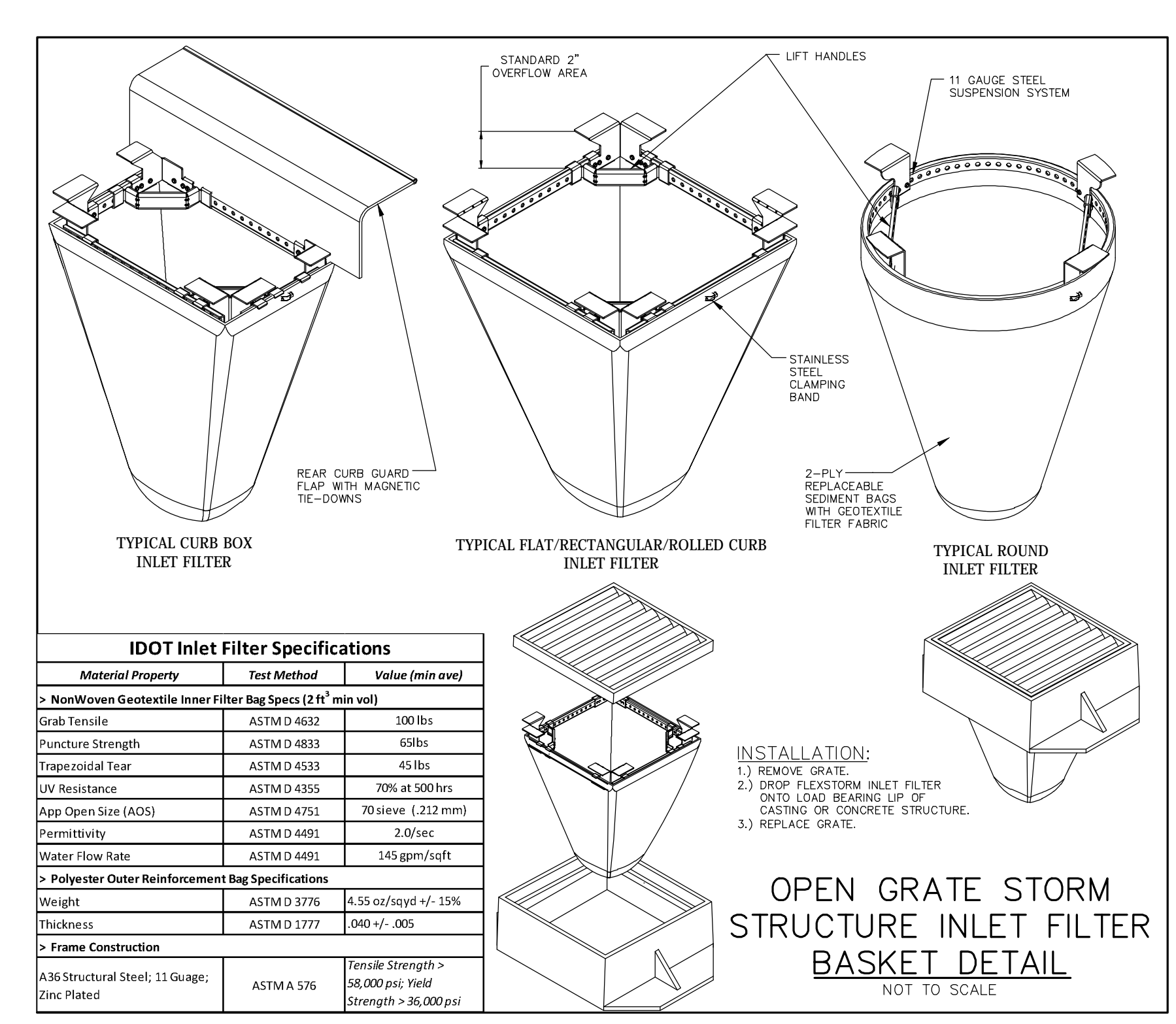
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MAIN CAMPUS WATERMAIN EXTENSION**  
1215 HOUBOLT ROAD  
JOLIET, ILLINOIS 60431

**DRAWING TITLE:**  
**GENERAL NOTES AND  
CONSTRUCTION DETAILS**

**DRAWING No.**  
315-0152-C1

**SCALE:**  
AS NOTED

**ENGINEERING DEPARTMENT  
SHEET 6 OF 6**



**SITE CONSTRUCTION GENERAL NOTES**

- ALL NEW CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION; AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" - ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE OWNER AND/OR CONTRACTOR ARE REQUIRED TO FOLLOW THE ACTIVE GENERAL PERMIT IIR-10 OR NATIONAL POLLUTANT ELIMINATION SYSTEM (NPDES) PERMIT. CONTRACTOR IS REQUIRED TO MAINTAIN THE STORMWATER POLLUTION PREVENTION PLAN.
- ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE CONSTRUCTION MANAGER.
- UNLESS NOTED OTHERWISE, ANY UNDERGROUND SEWER OR DRAIN TILE SHALL REMAIN IN OPERATION, AND IF DAMAGED SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION. THE OWNER OF THE TILE AND THE CONSTRUCTION MANAGER SHALL BE NOTIFIED BEFORE TRENCH IS BACKFILLED.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE OWNER, CONSTRUCTION MANAGER AND ENGINEER IF THERE IS ANY DISCREPANCY BETWEEN THE PLANS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY STAGE OF CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- GRANULAR BACKFILL TO BE CRUSHED LIMESTONE CA-6.
- EROSION CONTROL TO BE APPLIED PER THE ILLINOIS PROCEDURES FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL MANUAL, LATEST EDITION. EROSION CONTROL NOTED SHALL BE CONSIDERED AS MINIMUM. ADDITIONAL MEASURES MAY BE REQUIRED AS CONSTRUCTION PROCEEDS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMPLETELY REMOVE AND PROPERLY DISPOSE OF EXISTING STRUCTURES, DEBRIS, WASTES AND VEGETATION FROM THE SITE AS NOTED ON THE PLAN OR AS MAY BE REQUIRED TO PROPERLY COMPLETE HIS WORK. ALL DEBRIS AND SURPLUS MATERIALS REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. NO ON-SITE BURNING OR BURIAL SHALL BE ALLOWED.

THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER AT ALL TIMES. DEBRIS AND SURPLUS MATERIAL CLEAN UP AND REMOVAL SHALL PROCEED AS THE WORK PROCEEDS.

ANY EXISTING WATER AND SANITARY SERVICES ENCOUNTERED FROM PREVIOUSLY DEMOLISHED BUILDINGS SHALL BE ABANDONED AND CAPPED OFF.

**TRAFFIC CONTROL**

ALL WORK CONDUCTED WITHIN ANY PUBLIC AREAS SHALL BE COVERED BY THE APPLICABLE ARTICLES OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". WORK SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING ALL TRAFFIC CONTROL DEVICES USED FOR THE PURPOSE OF REGULATING, WARNING OR DIRECTING TRAFFIC DURING THE CONSTRUCTION OF ANY IMPROVEMENTS, LOADING AND UNLOADING OF MATERIALS, MOBILIZATION OF EQUIPMENT, CLEANING OF PAVEMENTS, OR WHENEVER THE SAFETY OF WORKERS OR TRAFFIC MAY BE IN ISSUE.

TRAFFIC CONTROL DEVICES INCLUDE: SIGNS AND THEIR SUPPORTS, SIGNALS, PAVEMENT MARKINGS, BARRICADES WITH SAND BAGS, CHANNELING DEVICES, WARNING LIGHTS, ARROW BOARDS, FLAGGERS, OR ANY OTHER DEVICE USED FOR THE PURPOSE OF REGULATING, WARNING OR GUIDING TRAFFIC THROUGH THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION, INSTALLATION, AND ARRANGEMENT OF ALL TRAFFIC. ANY DROP OFF GREATER THAN TWO INCHES WITHIN EIGHT FEET OF THE PAVEMENT EDGE SHALL BE PROTECTED BY TYPE I OR II BARRICADES WITH IDOT APPROVED WARNING LIGHTS.

TRAFFIC CONTROL DEVICES AND MEASURES SHALL BE SUBJECT TO APPROVAL AND INSPECTION BY CONSTRUCTION MANAGER.

- FOR EACH PHASE OF WORK, THE CONTRACTOR RESPONSIBLE FOR THAT WORK IS TO PROVIDE QUALIFIED PERSONNEL WHO SHALL INSPECT:
  - DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN STABILIZED WITH IMPERVIOUS MATERIALS OR VEGETATIVE GROUND COVER.
  - STRUCTURAL CONTROL MEASURES (I.E. SILT FENCE, GRATE FABRIC, ETC.).
  - OFF SITE ROADS AND ON SITE PAVEMENTS WHICH THE CONTRACTOR'S VEHICLES AND OR EQUIPMENT OPERATE.

SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT HAS 0.5 INCHES OR MORE OF PRECIPITATION.

ALL INSPECTIONS SHALL BE IN CONFORMANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN INSPECTION REQUIREMENTS.

**WATERMAIN NOTES:**

SANITARY SEWER & WATER MAIN SEPARATION SHALL CONFORM TO SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

**WATER MAIN:**

- WATER MAIN SHALL BE CEMENT LINED DUCTILE IRON C-151, CLASS 52 WITH C-111 PUSH-ON JOINTS; DISINFECTION-CHLORINE, INITIAL CONC. 50 mg/l, FINAL 25 mg/l, RETENTION TIME 24 HOURS, MINIMUM SAMPLES TWO CONSECUTIVE DAYS @ 24 HOUR INTERVALS.
- ALL FITTINGS SHALL BE CEMENT LINED DUCTILE IRON, MECHANICAL JOINT; RETAINER GLANDS ARE REQUIRED ON ALL BENDS, TEES, OR ELBOWS; ALL PLUGS SHALL BE CLOW F-1159 OR APPROVED EQUAL.
- FIRE HYDRANT SHALL BE A CLOW F-2500 MUELLER "CENTURION" A-423 COMPLETE WITH AUXILIARY VALVE; VALVE OPENING OF 5 1/4 INCH AND EQUIPPED WITH TWO 2 1/2 INCH HOSE CONNECTIONS AND ONE 4 1/2" MALE PUMPER CONNECTION.
- ALL VALVES SHALL BE RESILIENT SEATED CONFORMING TO AWWA C509 STANDARDS; MANUFACTURED BY MUELLER OR APPROVED EQUAL.
- RETAINER GLANDS SHALL BE REQUIRED FOR HYDRANTS NOT DIRECTLY CONNECTED TO HYDRANT TEE AT WATERMAIN.

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48 Hours (2 Working Days) BEFORE YOU DIG.  
Include the following:  
County, City/Township, Section & 1/4 Section No.