

SITE IMPROVEMENT PLANS for KENSINGTON SCHOOL

VILLAGE OF ARLINGTON HEIGHTS
COOK COUNTY, ILLINOIS
PROJECT NO: 6124.07

OWNER

KENSINGTON SCHOOL
743 MCCLINTOCK DRIVE
BURR RIDGE, IL 60527
PHONE: (312) 907-7979

ARCHITECT

HAGUE ARCHITECTURE
418 CLINTON PLACE
RIVER FOREST, IL 60305
PHONE: (708) 771-3900

CALL J.U.L.I.E. 1-800-892-0123

WITH THE FOLLOWING:
COUNTY COOK
CITY, TOWNSHIP VILLAGE OF ARLINGTON HEIGHTS, WHEELING TOWNSHIP
SEC. & 1/4 SEC. NO. SE 1/4 OF SEC. 29, T42N, R11E

**48 HOURS BEFORE YOU DIG.
EXCLUDING SAT., SUN. & HOLIDAYS**

BENCHMARK

ELEVATION:
DESCRIPTION: **SEE SHEET E1 FOR
BENCHMARK INFORMATION**

NOTE:

SPACECO, INC. IS TO BE NOTIFIED AT LEAST
THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION
AND SHALL BE INCLUDED IN THE PRECONSTRUCTION MEETINGS

REVISIONS

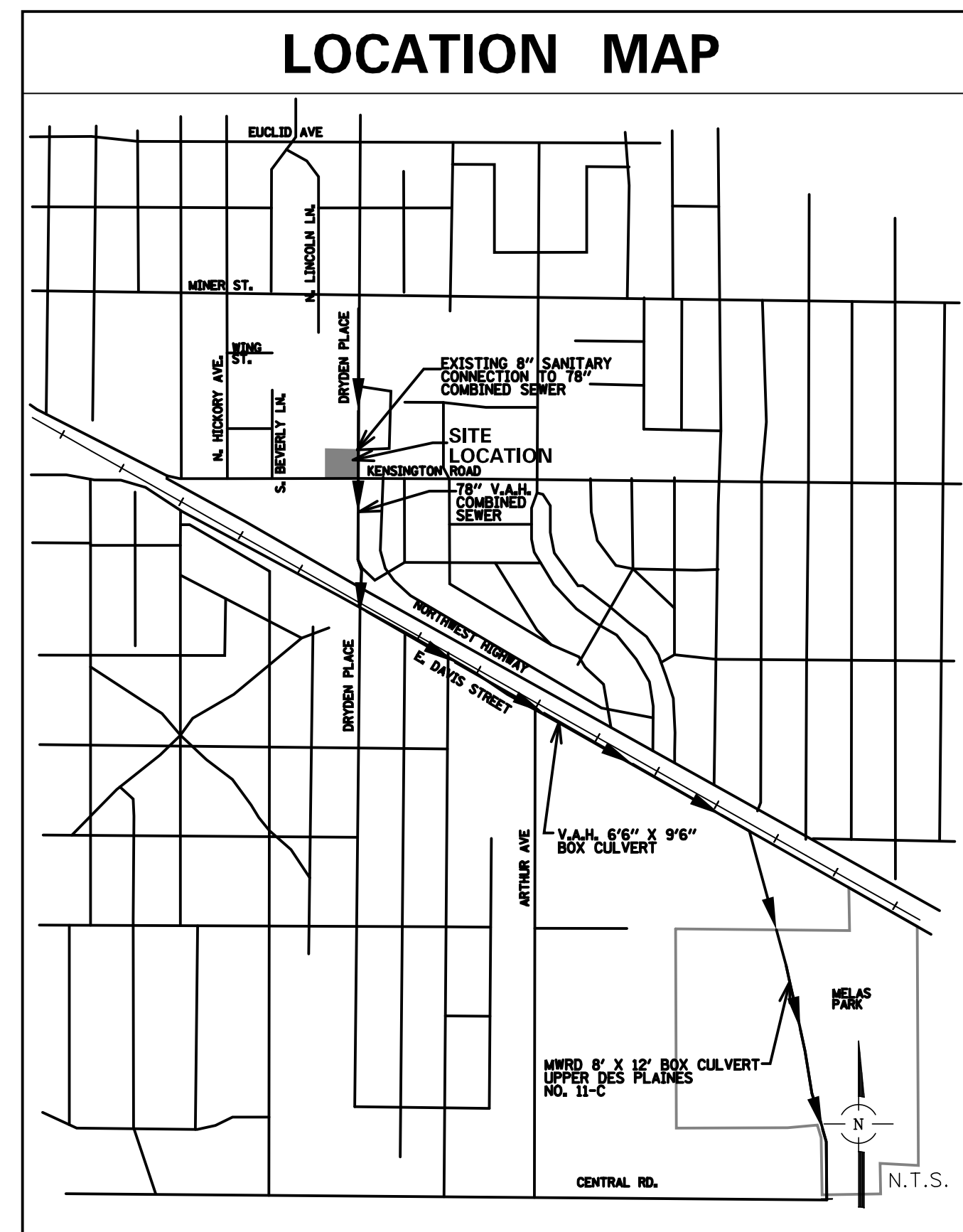
ORIGINAL PLAN DATE: FEBRUARY 12, 2016

#	SHEET #	REMARKS	DATE
1	4	FIRE TRUCK TURNING MOVEMENTS	04/18/16
2	4	PER DESIGN COMMISSION MEETING	04/27/16
3	2,4-6,9	PER VILLAGE OF ARLINGTON HEIGHTS	05/10/16
4	4-6,9	PER CLIENT	07/19/16
5	4	PER VILLAGE OF ARLINGTON HEIGHTS	08/10/16

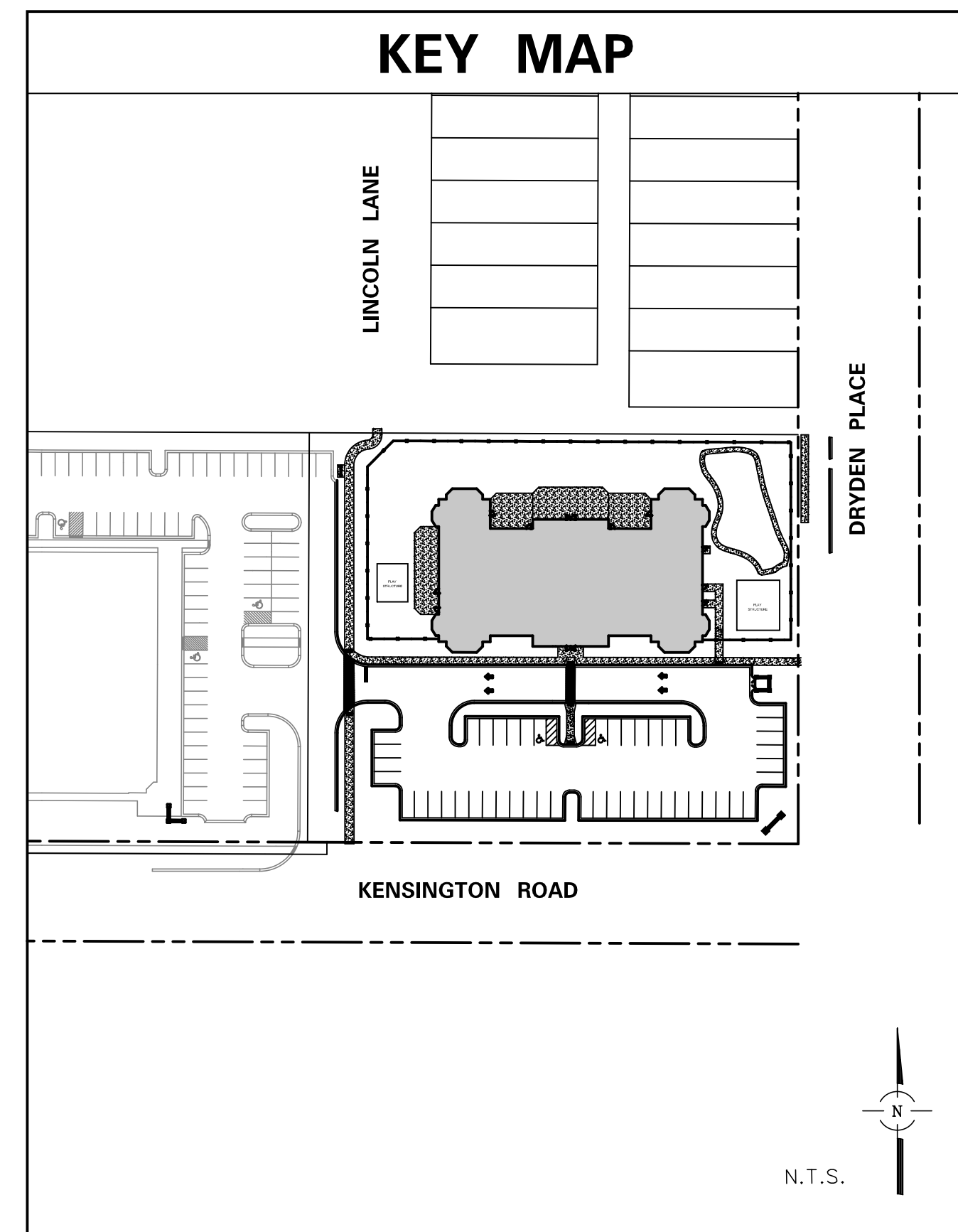
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LOCATION MAP



KEY MAP



ENGINEER _____ DATE _____
JAMES C. KAPUSTIAK P.E.
ILLINOIS REGISTRATION NO.: 062-054942
EXPIRATION DATE: 11/30/2017
PROFESSIONAL DESIGN FIRM NO.: 184-001157
EXPIRATION DATE: 04/30/2017
THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT
THE SIGNATURE, SEAL, AND EXPIRATION DATE OF SEAL OF THE ENGINEER

**FOR PRELIMINARY REVIEW
NOT FOR CONSTRUCTION**

KENSINGTON SCHOOL
ARLINGTON HEIGHTS, ILLINOIS

9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

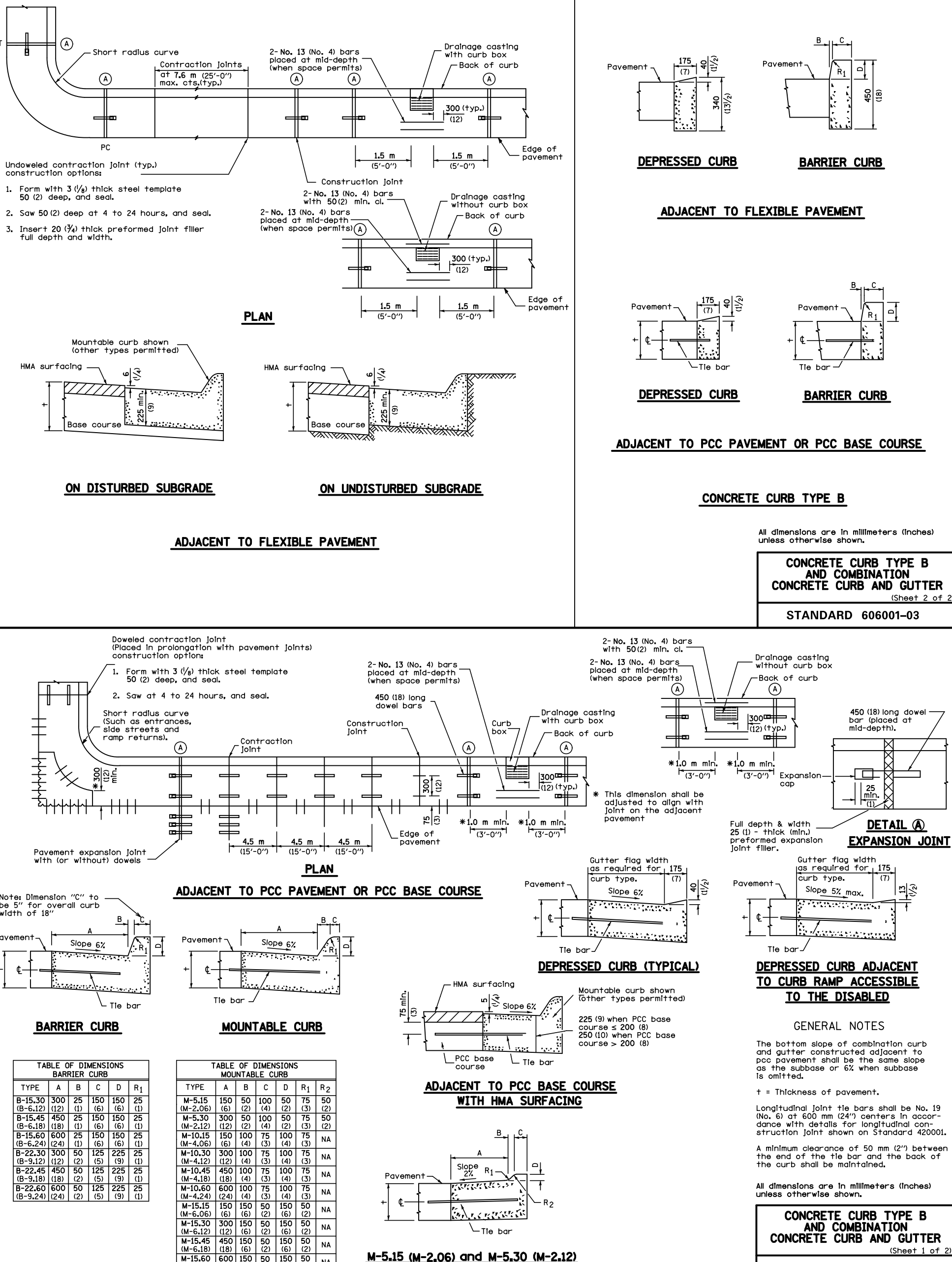


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DATE:
02/12/16
JOB NO.
6124.07
SHEET
C1
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GENERAL NOTES

- 1. REFERENCED CODES
A. ALL PAVEMENT AND STORM SEWER CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSBRC)...
B. ALL SANITARY SEWER AND WATERMAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN LINES...
C. ALL SIDEWALK AND PUBLIC AREAS MUST BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA...
D. ALL METHOD OF CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MOST RECENT EDITION OF "A MANUAL OF PRACTICE FOR PUBLIC & PRIVATE IMPROVEMENTS" PUBLISHED BY THE VILLAGE OF ARLINGTON HEIGHTS ENGINEERING DEPARTMENT.
E. THE CITED STANDARD SPECIFICATIONS, CODES AND PERMITS, WITH THESE CONSTRUCTION PLANS AND DETAILS, ARE ALL TO BE CONSIDERED PART OF THE CONTRACT...

- 22. GENERAL EXCAVATION/UNDERGROUND NOTES
A. SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH CODES AND ORDINANCES HAVING JURISDICTION. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE EITHER BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.
B. PROVIDE MATERIALS FOR SHORING AND BRACING, SUCH AS SHEET PILING, UPRIGHTS, STRINGERS AND CROSS BRACES. IN GOOD SERVICEABLE CONDITION. PROVIDE MINIMUM REQUIREMENTS FOR TRENCH SHORING AND BRACING TO COMPLY WITH CODES AND AUTHORITIES HAVING JURISDICTION. MAINTAIN SHORING AND BRACING IN EXCAVATIONS REGARDLESS OF TIME PERIOD EXCAVATIONS WILL BE OPEN. CARRY DOWN SHORING AND BRACING AS EXCAVATION PROGRESSES IN ACCORDANCE WITH OSHA AND GOVERNING AUTHORITY.
C. PREVENT SURFACE WATER AND SUBSURFACE OR GROUNDWATER FROM FLOWING INTO EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS. PROVIDE AND MAINTAIN PUMPS, SUMPS, SUCTION AND DISCHARGE LINES AND OTHER Dewatering SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS. CONVEY WATER REMOVED FROM EXCAVATIONS AND RAINWATER TO COLLECTING OR RUN-OFF AREAS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. PROVIDE AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS FOR EACH STRUCTURE. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.
D. IMMEDIATELY REPORT CONDITIONS THAT MAY CAUSE UNSOUND BEARING TO THE OWNER/DEVELOPER BEFORE CONTINUING WORK.
23. FINAL ACCEPTANCE
A. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD. THIS GUARANTEE SHALL BE PROVIDED IN THE FORM OF MAINTENANCE BOND IN THE AMOUNT OF 10% OF THE COST OF IMPROVEMENTS.
B. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED.
C. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE MUNICIPALITY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE MUNICIPALITY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE, AND PRIOR TO PLACING ANY CONCRETE OR FORMING HAVE BEEN SET.
D. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
24. UNDERGROUND NOTES
A. UNDERGROUND WORK SHALL INCLUDE TRENCHING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS, FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT.
B. WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR SYSTEMS WHICH SHALL BE PAID IN FULL FOR PATCHING, REPAIRING, REMOVAL AND DISPOSAL OF DEBRIS AND DIRT, DRAINAGE STRUCTURES AND SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BY THE CONTRACTOR AT HIS EXPENSE. NO CLEANING WILL BE MADE FOR CLEANING STRUCTURES OR SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT.
C. ANY Dewatering of SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK UNLESS THERE IS A SPECIFIC LINE ITEM FOR Dewatering. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSP ARE ENCOUNTERED IN SEWER CONSTRUCTION, THE CONTRACTOR SHALL UPON APPROVAL OF THE OWNER AND/OR ENGINEER OVER EXCAVATE TO A DEPTH OF ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.
D. TRENCH BACKFILL WILL BE REQUIRED FOR THE FULL TRENCH DEPTH WITHIN TWO (2) FEET OF PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS AND EXTENDING A DISTANCE EQUAL TO A 1:1 SLOPE FROM SUBGRADE ELEVATION TO TOP OF PIPE. THE TRENCH BACKFILL SHALL CONSIST OF GRANULAR MATERIAL MEETING 100T CA-6 GRADATION. THE TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH (SSBRC) SPECIFICATIONS. JETTING WITH WATER SHALL NOT BE PERMITTED. THE COST OF SUCH CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.
E. THE CONTRACTOR SHALL INSTALL A 4" X 4" X 8" (NOMINAL) POST AT THE TERMINUS OF THE SANITARY, WATER AND STORM SERVICE, SANITARY AND STORM MANHOLES, CATCH BASINS, INLETS AND WATER VAULTS. THE POST SHALL EXTEND 4" ABOVE THE GROUND. THE TOP 1/2" OF SAID POST SHALL BE PAINTED AS FOLLOWS: SANITARY - RED, WATERMAIN - BLUE, STORM - GREEN.
F. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE EROSION CONTROL AT REAR YARD INLET LOCATIONS, AND AT OTHER LOCATIONS SELECTED BY THE ENGINEER, TO MINIMIZE THE AMOUNT OF SILTATION WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM.
G. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ON THE ROAD SUBGRADES, WHENEVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM (IF AVAILABLE). DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING, OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE REPAIRED BY THE CONTRACTOR AT HIS COST.
H. ALL TOP OF FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULT COVERS ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL INSPECTION OF THE PROJECT. FINISH GRADES TO BE DETERMINED BY THE MUNICIPALITY AT THE TIME OF FINAL INSPECTION AND MAY VARY FROM PLAN GRADE.
I. SLEEVES FOR UTILITY (COMED, TELEPHONE, ETC.) STREET CROSSINGS, SHALL BE INSTALLED WHERE DIRECTED BY THE OWNER. SLEEVES SHALL BE 6" PVC INSTALLED 36" BELOW THE TOP OF CURB AND EXTEND TWO FEET OUTSIDE THE CURB. TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
J. THE CONTRACTOR SHALL VERIFY THE SIZE AND INVERT ELEVATION OF ALL CONNECTIONS TO AVOID ANY CONFLICTS BEFORE STARTING WORK. NOTIFY OWNER OF ANY DISCREPANCIES.
25. IT SHALL BE UNDERSTOOD THAT NEITHER THE MUNICIPALITY, ITS OFFICIALS, CONSULTANTS, NOR ITS EMPLOYEES ARE AGENTS OR REPRESENTATIVES OF THE OWNER. NONE-THE-LESS, THE MUNICIPALITY, ITS OFFICIALS AND EMPLOYEES ARE TO BE PROVIDED SAFE ACCESS TO ALL PHASES OF ALL WORK PERFORMED ON THE PROJECT SITE TO MONITOR THE QUALITY OF THE WORK AND ASSURE ITS CONFORMITY WITH THE PLANS AND SPECIFICATIONS. THERE SHALL BE NO PERSONAL LIABILITY UPON ANY OFFICIAL OR EMPLOYEE OF THE MUNICIPALITY ON ACCOUNT OF ACTIONS TAKEN OR NOT TAKEN IN THE COURSE OF THEIR WORK. THE CONTRACTOR MUST AT ALL TIMES MAINTAIN A SAFE ACCESS TO THE WORK FOR INSPECTORS. "SAFE" MEANING CONDITIONS COMPLYING WITH ALL PROVISIONS OF ALL APPLICABLE AND RECOGNIZED SAFETY STANDARDS, FEDERAL, STATE AND LOCAL. IF ACCESS IS NOT SAFE AND INSPECTIONS CANNOT BE MADE UNDER SAFE CONDITIONS, THE INSPECTOR CAN ORDER CESSATION OF THE WORK SO AFFECTED UNTIL SUCH TIME AS CONTRACTOR PROVIDES SAFE ACCESS.



LEGEND table with columns: EXISTING, DESCRIPTION, PROPOSED. Lists symbols for various utilities and features like drain tile, storm sewer, sanitary sewer, etc.

ABBREVIATIONS table with columns: SYMBOL, MEANING. Lists symbols for storm manhole, sanitary manhole, catch basin, etc.

PERMITS table with columns: DESCRIPTION, LOG NO., PERMIT NO., DATE ISSUED. Lists permits for IDNR endangered species, IHPA, etc.

BENCH MARK table with columns: DESCRIPTION, LOG NO., PERMIT NO., DATE ISSUED. Lists bench mark details.

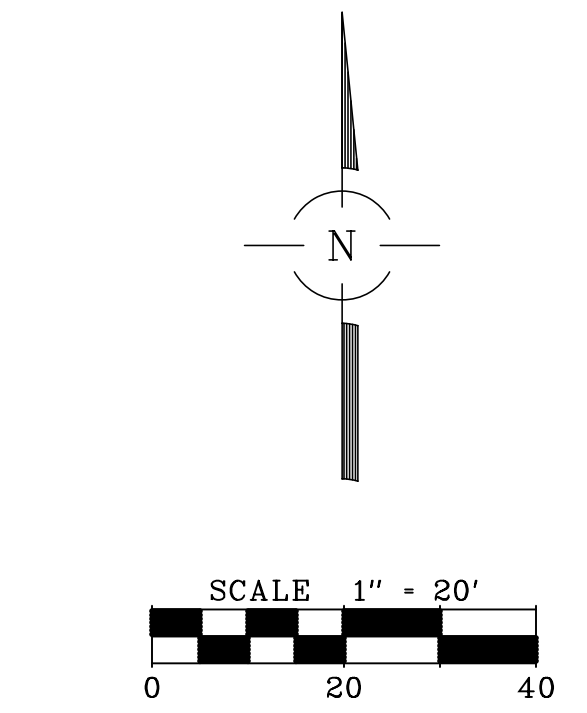
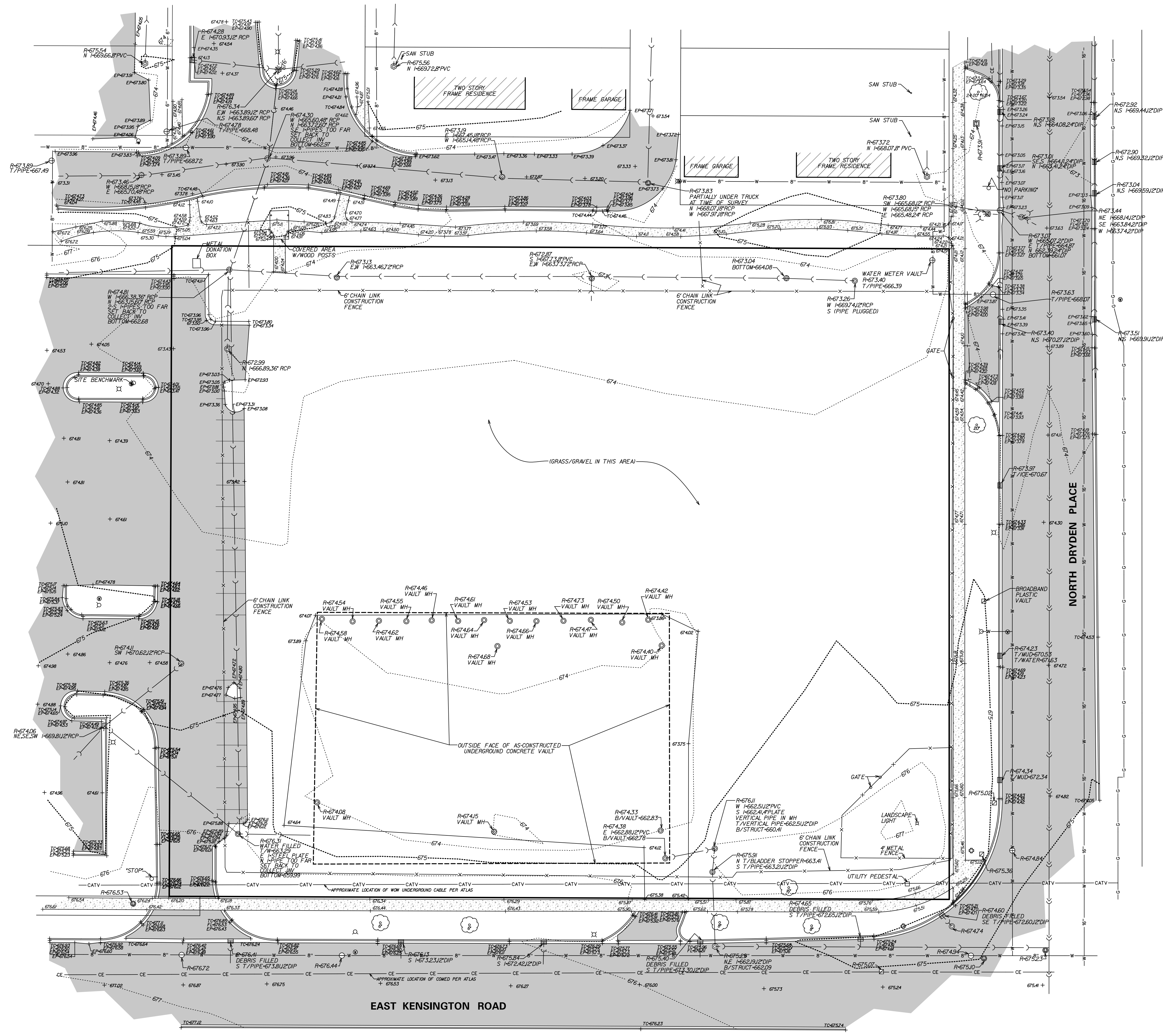
CONTACT INFORMATION section listing Village of Arlington Heights, Comcast Communications, AT&T Communications, Village of Arlington Heights, Comcast Cable, Nicor Gas Company, Commonweath Edison, MCI Communications, and Northwest Water Commission.

Table with columns: NO., DATE, REMARKS. Contains project-specific notes and dates.

GENERAL NOTES AND TYPICAL SECTIONS KENSINGTON SCHOOL ARLINGTON HEIGHTS, ILLINOIS

CONSULTING ENGINEERS SITE DEVELOPMENT ENGINEERS LAND SURVEYORS. Includes contact information for Richardsons, IL.

SPACECO INC. FILENAME: 2407GN.dgn DATE: 02/12/16 JOB NO. 6124.07 SHEET GN1 2 OF 13



LEGEND	
	STORM SEWER
	SANITARY SEWER
	COMBINED SEWER
	WATER MAIN
	GAS MAIN
	UNDERGROUND TELEPHONE LINE
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND CATV LINE
	OVERHEAD WIRE/SECTION UTILITY POLES
	FIBER OPTIC LINE
	RAILROAD
	FENCE
	GUARDRAIL
	EDGE OF WATER
	WETLAND LIMITS
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	INLET
	FLARED END SECTION
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	TELEPHONE UPRIGHT
	ELECTRIC UPRIGHT
	CABLE TV UPRIGHT
	FIRE HYDRANT
	VALVE AND VAULT
	WATER VALVE
	B BOX
	AUXILIARY VALVE
	WELL
	GAS VALVE
	HAND HOLE
	STREET LIGHT
	UTILITY POLE
	TRAFFIC SIGNAL
	TRAFFIC SIGNAL BOX
	SPRINKLER HEAD
	SOLARIS
	MAILBOX
	SIGN
	UNIDENTIFIED MANHOLE
	CONTOUR
	SPOT ELEVATION
	RIGHT-OF-WAY MONUMENT
	DOG
	IRON / STEEL ROD
	IRON PIPE
	CUT CROSS
	PK / NAG NAIL
	RAILROAD SPIKE
	SOIL BORING
	TREE WITH SIZE
	FIR TREE WITH SIZE
	BUSH
	ASPHALT
	CONCRETE
	GRAVEL

NOTE:
 UNDERGROUND UTILITIES ARE SHOWN BY USING PHYSICAL EVIDENCE FOUND ON THE SURFACE AND/OR FROM UTILITY COMPANY FIELD STAKES AND, THEREFORE, THEIR LOCATIONS ARE APPROXIMATE AND SUSPECTED AND MAY NOT BE COMPLETELY ACCURATE. FOR MORE ACCURATE LOCATION, FIELD EXCAVATE.

PIPE FLOW DIRECTIONS, IF SHOWN, ARE BASED ON FIELD INVERT ELEVATIONS UNLESS EXISTING PLANS INDICATE OTHERWISE, IN WHICH CASE THE EXISTING PLAN FLOW DIRECTION IS SHOWN.

LAST DATE OF FIELD WORK: JANUARY 27, 2016.

SITE BENCHMARK:
 NORTHEASTERLY BONNET BOLT ON A FIRE HYDRANT AT THE NORTH ISLAND NEAR THE NORTHWEST CORNER OF THE SITE.
 +/-5' NORTHEASTERLY OF A LIGHT POLE.
 ELEVATION = 677.22 NAVD89

NO.	DATE	REMARKS

NO.	DATE	REMARKS

EXISTING CONDITIONS
KENSINGTON SCHOOL
 ARLINGTON HEIGHTS, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

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 Rosemont, Illinois 60018
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SPACECO INC.

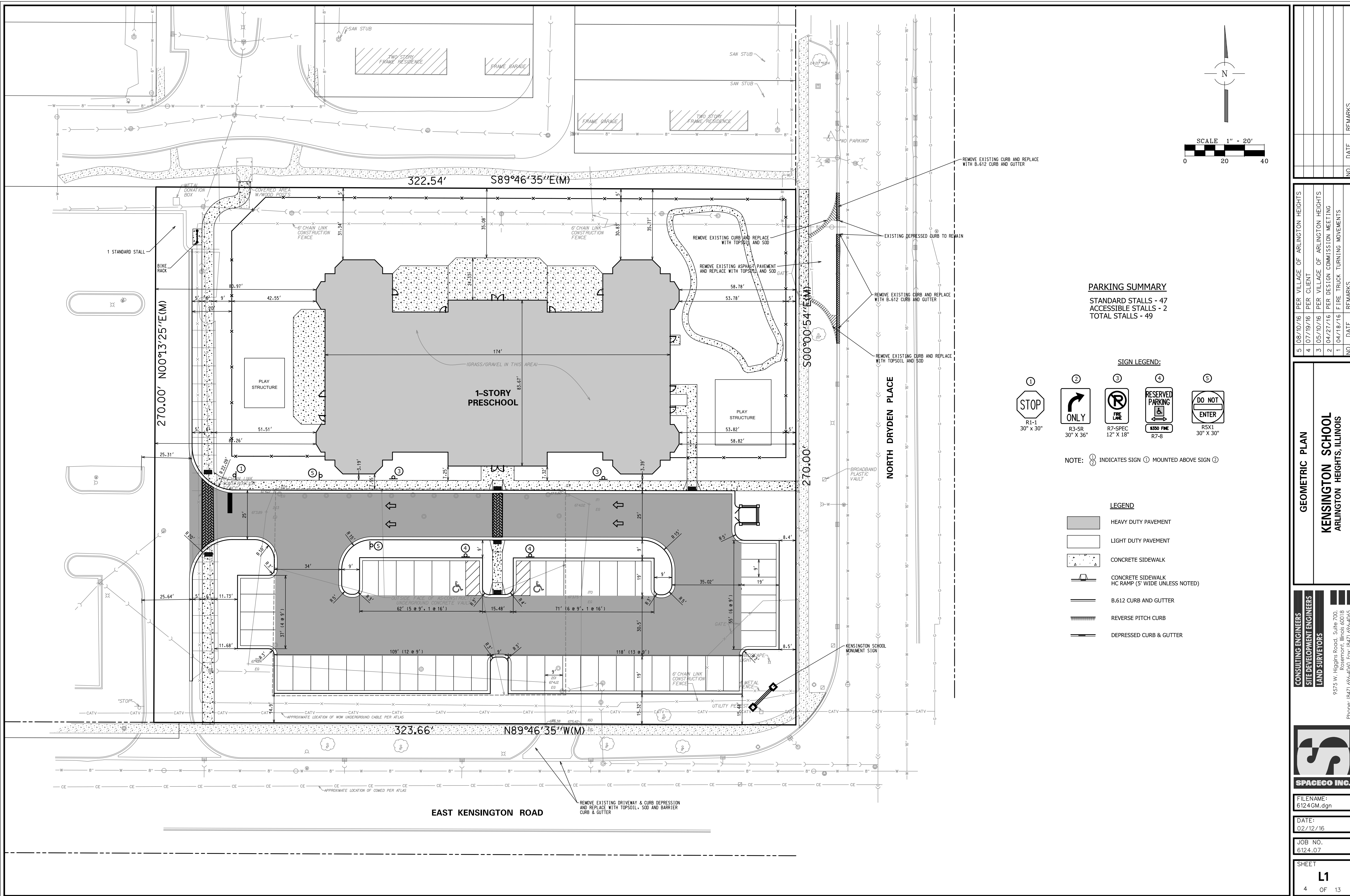
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02/12/16

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GEOMETRIC PLAN
KENSINGTON SCHOOL
 ARLINGTON HEIGHTS, ILLINOIS

CONSULTING ENGINEERS
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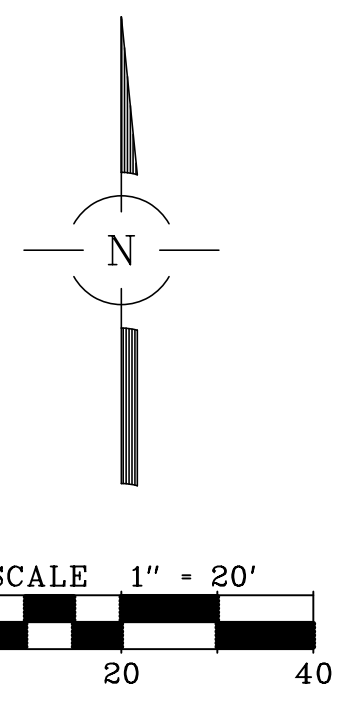
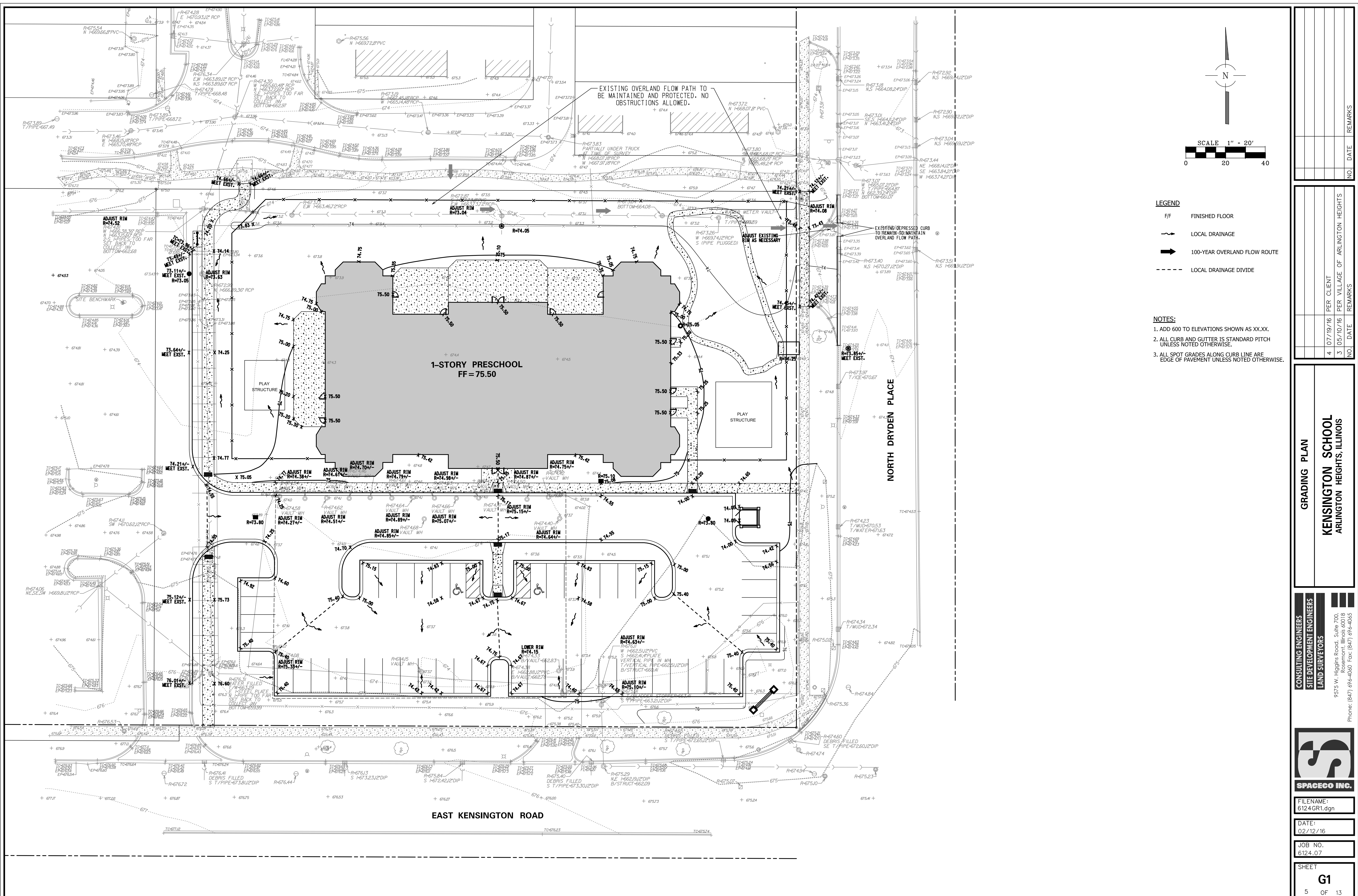
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- LEGEND**
- F/F FINISHED FLOOR
 - LOCAL DRAINAGE
 - 100-YEAR OVERLAND FLOW ROUTE
 - LOCAL DRAINAGE DIVIDE

- NOTES:**
1. ADD 600 TO ELEVATIONS SHOWN AS XX.XX.
 2. ALL CURB AND GUTTER IS STANDARD PITCH UNLESS NOTED OTHERWISE.
 3. ALL SPOT GRADES ALONG CURB LINE ARE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

NO.	DATE	REMARKS

NO.	DATE	REMARKS
4	07/19/16	PER CLIENT
3	05/10/16	PER VILLAGE OF ARLINGTON HEIGHTS

GRADING PLAN
KENSINGTON SCHOOL
 ARLINGTON HEIGHTS, ILLINOIS

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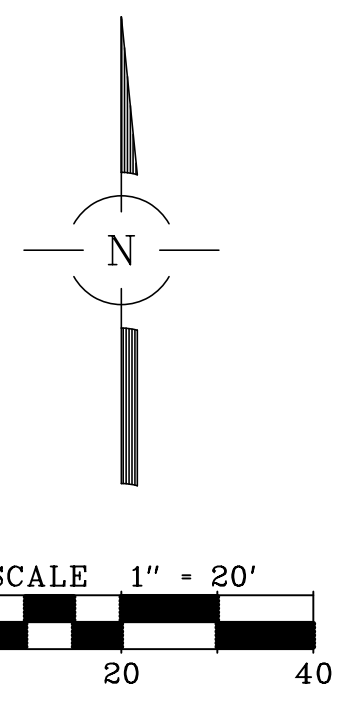
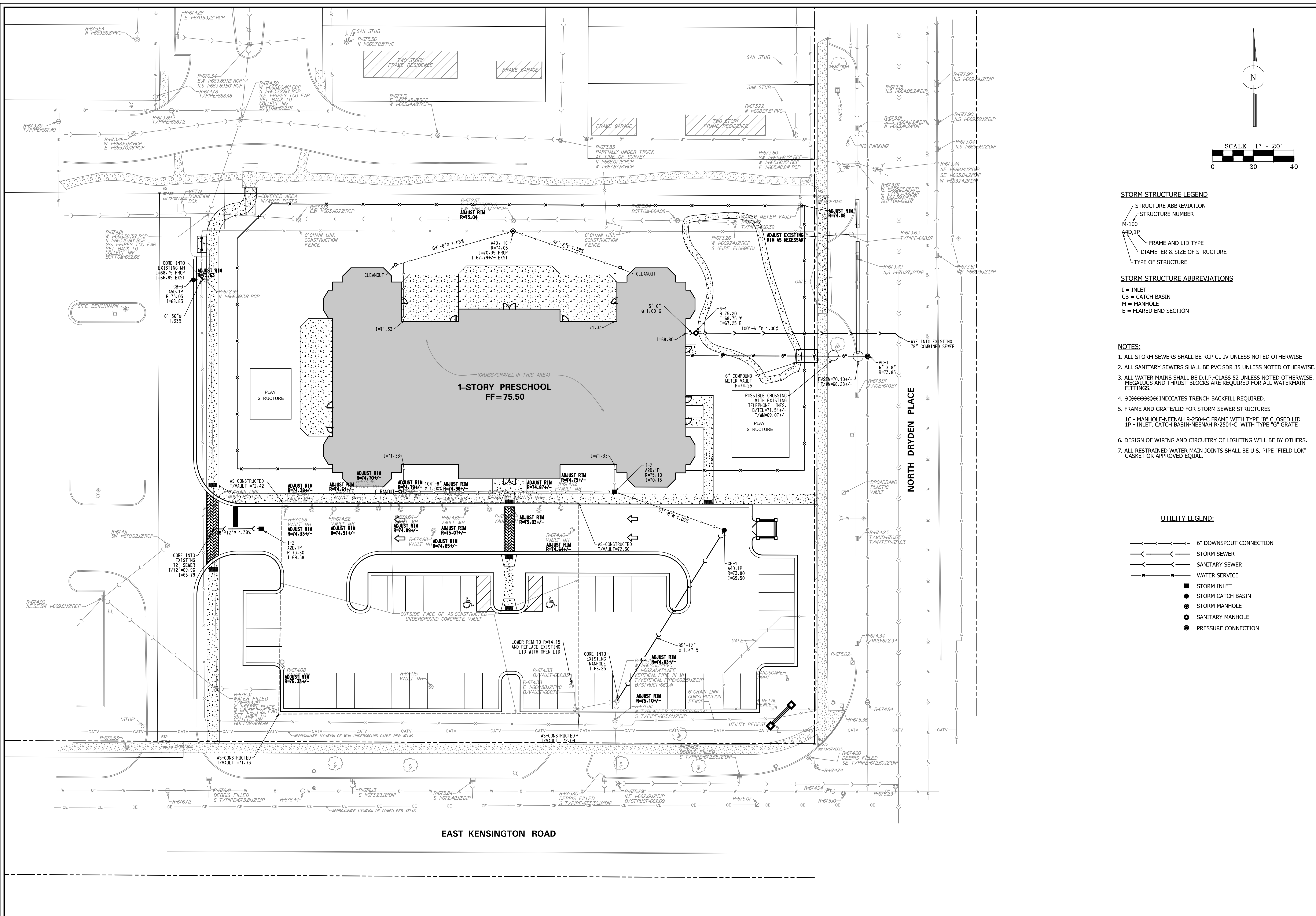


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STORM STRUCTURE LEGEND

- STRUCTURE ABBREVIATION
- STRUCTURE NUMBER
- M-100
- A4D, 1P
- FRAME AND LID TYPE
- DIAMETER & SIZE OF STRUCTURE
- TYPE OF STRUCTURE

STORM STRUCTURE ABBREVIATIONS

- I = INLET
- CB = CATCH BASIN
- M = MANHOLE
- E = FLARED END SECTION

NOTES:

1. ALL STORM SEWERS SHALL BE RCP CL-IV UNLESS NOTED OTHERWISE.
2. ALL SANITARY SEWERS SHALL BE PVC SDR 35 UNLESS NOTED OTHERWISE.
3. ALL WATER MAINS SHALL BE D.I.P.-CLASS 52 UNLESS NOTED OTHERWISE. MEGALUGS AND THRUST BLOCKS ARE REQUIRED FOR ALL WATERMAIN FITTINGS.
4. [Symbol] INDICATES TRENCH BACKFILL REQUIRED.
5. FRAME AND GRATE/LID FOR STORM SEWER STRUCTURES
 1C - MANHOLE-NEENAH R-2504-C FRAME WITH TYPE "B" CLOSED LID
 1P - INLET, CATCH BASIN-NEENAH R-2504-C WITH TYPE "G" GRATE
6. DESIGN OF WIRING AND CIRCUITRY OF LIGHTING WILL BE BY OTHERS.
7. ALL RESTRAINED WATER MAIN JOINTS SHALL BE U.S. PIPE "FIELD LOK" GASKET OR APPROVED EQUAL.

UTILITY LEGEND:

- [Symbol] 6" DOWNSPOUT CONNECTION
- [Symbol] STORM SEWER
- [Symbol] SANITARY SEWER
- [Symbol] WATER SERVICE
- [Symbol] STORM INLET
- [Symbol] STORM CATCH BASIN
- [Symbol] STORM MANHOLE
- [Symbol] SANITARY MANHOLE
- [Symbol] PRESSURE CONNECTION

NO.	DATE	REMARKS

NO.	DATE	REMARKS	PER CLIENT	PER VILLAGE OF ARLINGTON HEIGHTS
4	07/19/16			
3	05/10/16			

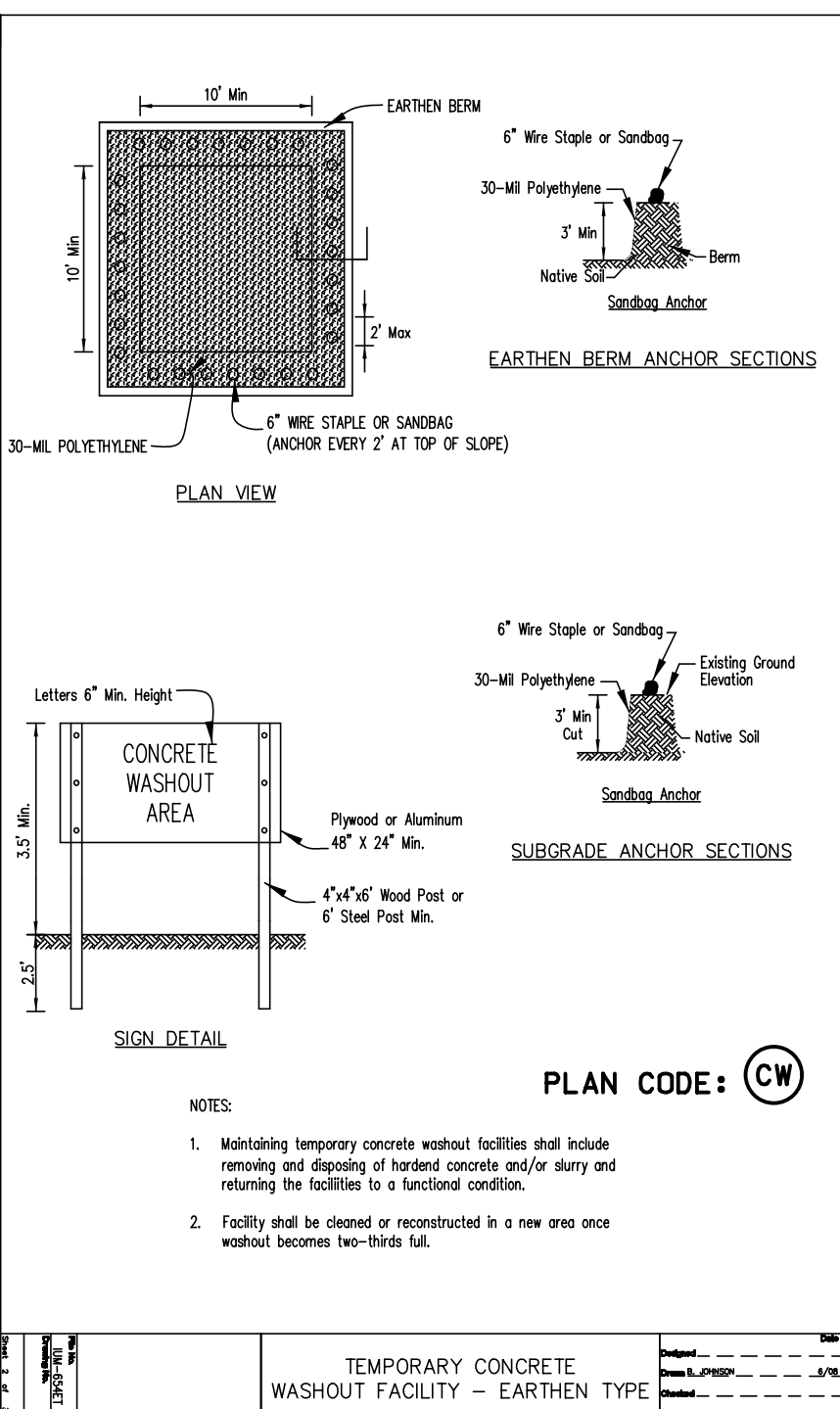
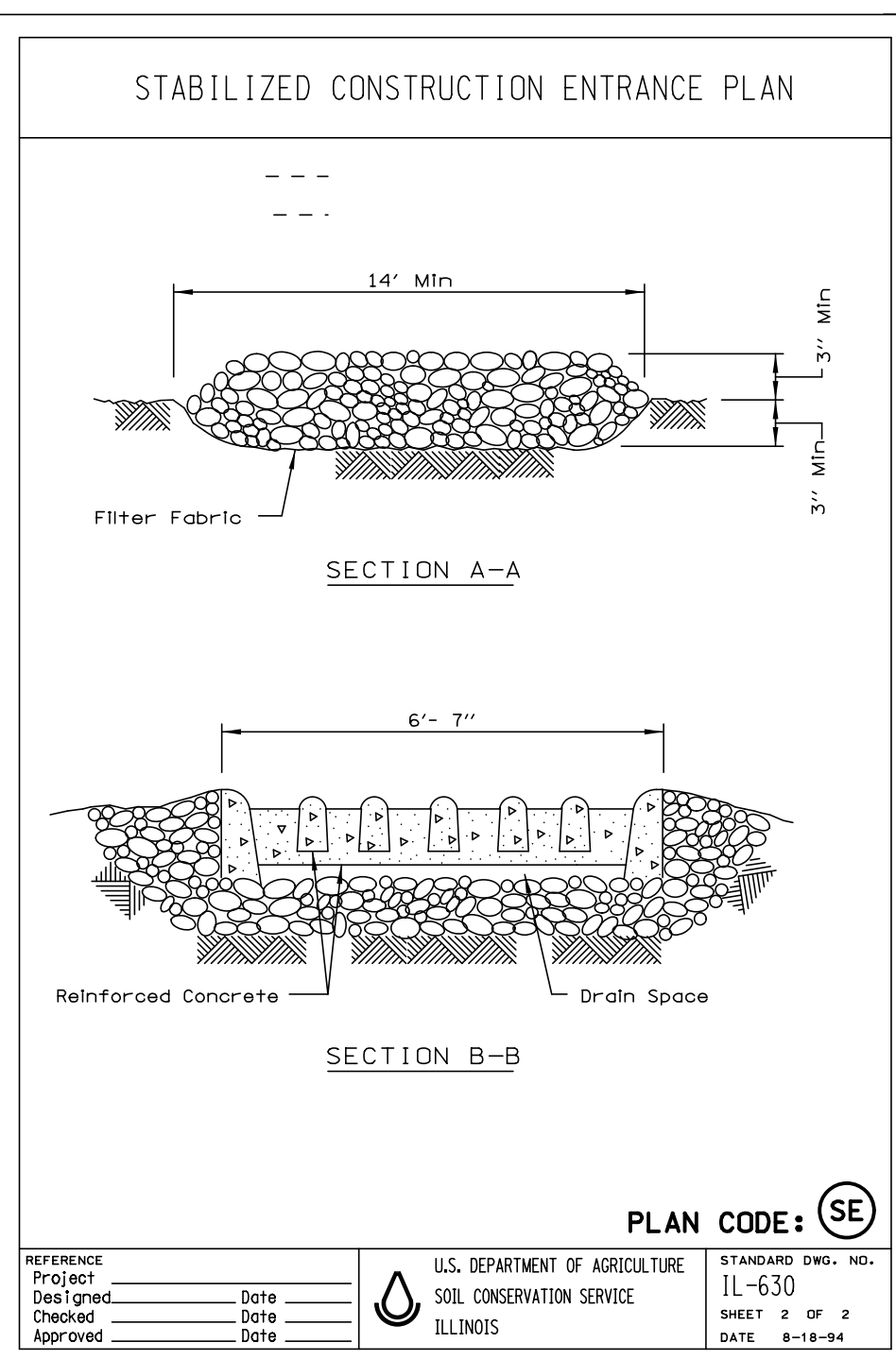
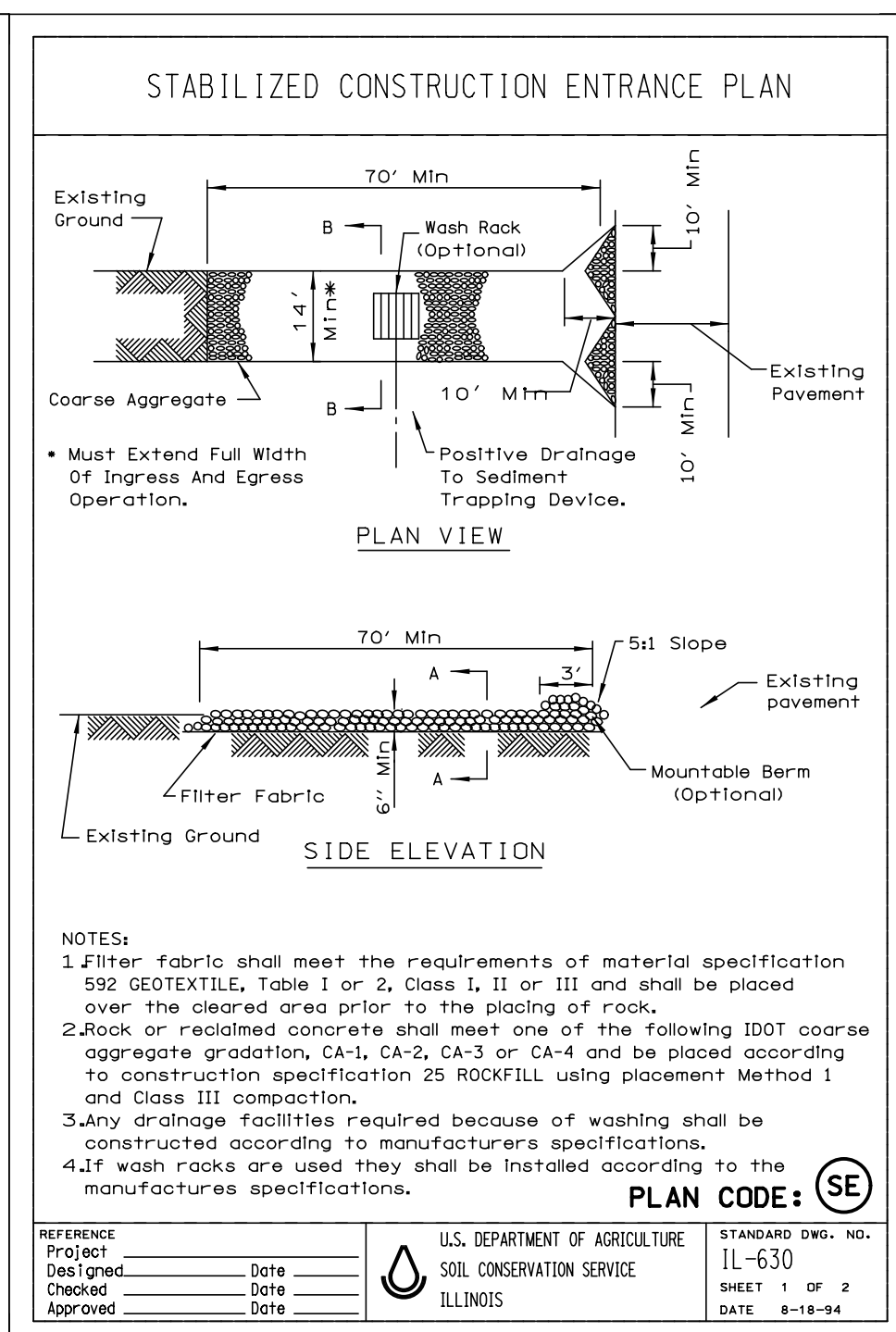
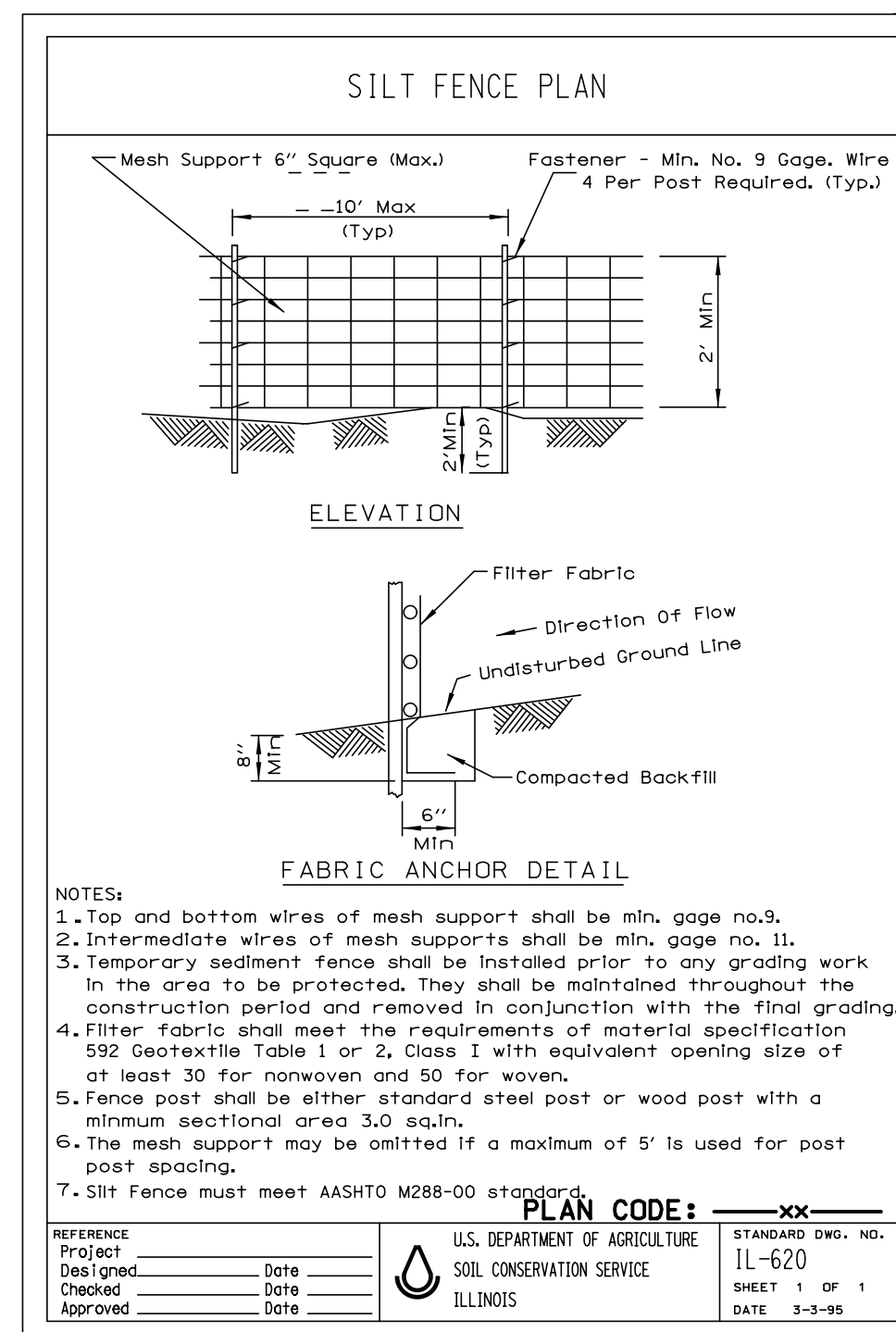
UTILITY PLAN
KENSINGTON SCHOOL
ARLINGTON HEIGHTS, ILLINOIS

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Catch-All is a manufactured inlet filtration device designed to significantly reduce the ingress of pollutants into stormwater systems, and therefore, improve water quality. Designs are available for a custom fit in virtually any drainage structure casting.

Catch-All HR is available to provide the added benefit of hydrocarbon removal.

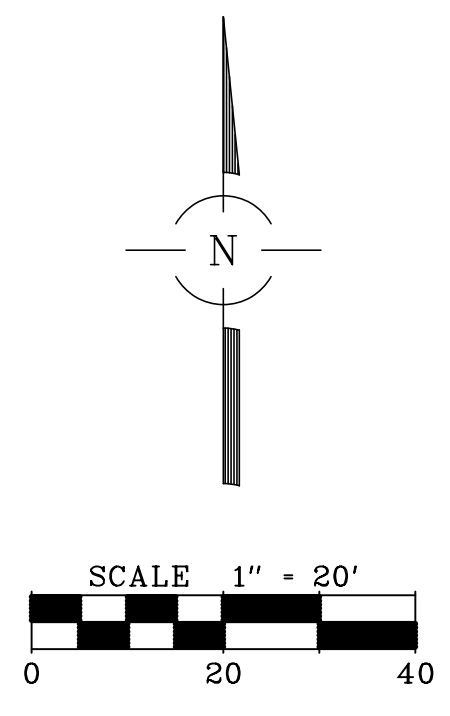
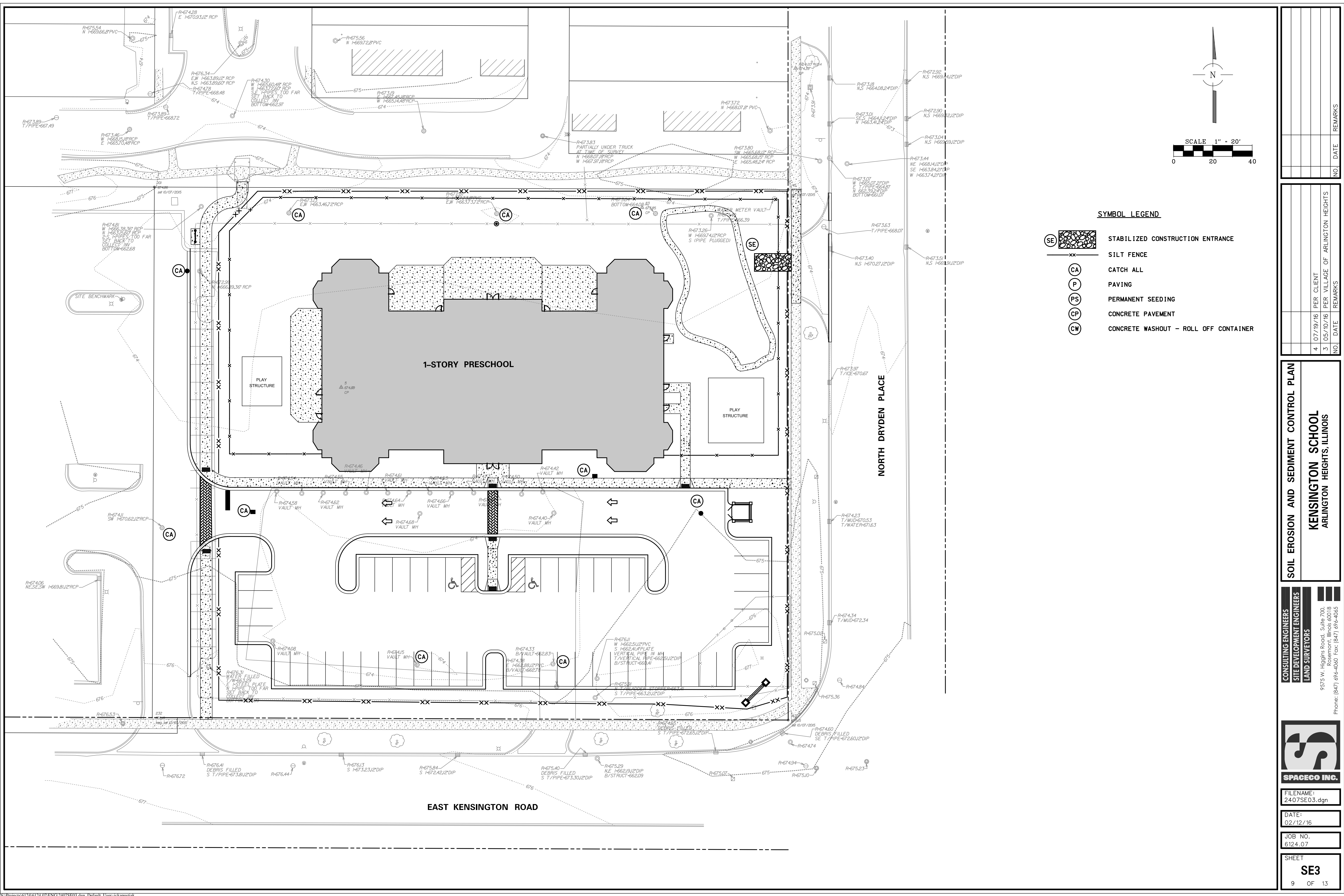
Design Benefits

1. Pollution Prevention
 - Sediment Control
2. Pollution Removal
 - Hydrocarbons (Catch-All HR)
 - Total Suspended Sediment
 - Phosphorus*
 - Nitrogen*
 - Heavy Metals*
 - * By virtue of sediment control








Applications

1. Site Development & Highway Construction
 - Inlet Protection / Sediment Control
2. Permanent BMP
 - Maintenance Yards
 - Wash Rays
 - Parking Lots & Garages
 - Airports - Tarmac, Cab/Limo Stands, Rental Returns
 - Bank/Fast Food Drive-Ups
 - Reduce Maintenance of Underground Detention Systems
 - Reduce Maintenance of Underground Oil/Water Separators

PLAN CODE: CA



SYMBOL LEGEND

-  STABILIZED CONSTRUCTION ENTRANCE
-  SILT FENCE
-  CATCH ALL
-  PAVING
-  PERMANENT SEEDING
-  CONCRETE PAVEMENT
-  CONCRETE WASHOUT - ROLL OFF CONTAINER

NO.	DATE	REMARKS

NO.	DATE	REMARKS
4	07/19/16	PER CLIENT
3	05/10/16	PER VILLAGE OF ARLINGTON HEIGHTS

SOIL EROSION AND SEDIMENT CONTROL PLAN
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ARLINGTON HEIGHTS, ILLINOIS

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SHEET SE3
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Table with 4 main columns: EARTHWORK NOTES, PAVING NOTES, SANITARY SEWER NOTES, and STORM SEWER NOTES. Each column contains detailed technical specifications and requirements for construction.

Table with 2 columns: NO. and DATE. It is part of a larger table structure for tracking revisions or dates.

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Vertical text block containing project name 'SPECIFICATIONS - 1', school name 'KENSINGTON SCHOOL', and location 'ARLINGTON HEIGHTS, ILLINOIS'.

Vertical text block containing company names 'CONSULTING ENGINEERS', 'SITE DEVELOPMENT ENGINEERS', and 'LAND SURVEYORS'.

Vertical text block containing address '9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018' and phone number '(847) 676-4060'.

Complex block containing 'SPACECO INC.' logo, filename '2407SPEC01.dgn', date '02/12/16', job no. '6124.07', sheet no. 'SP1', and page '10 OF 13'.

MWRD TYPICAL GENERAL NOTES

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
2. ELEVATION DATUM IS U.S.G.S.
3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
4. NO DOWNSPOUTS AND FOOTING DRAINS.
5. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO:

PIPE MATERIAL SPEC.	JOINT SPEC.
VITRIFIED CLAY PIPE	
VCP	C-425
VCP (NO-BEL)	C-425
JOINT	D-1184
COLLAR	D-1184
CONCRETE PIPE C-14	C-443
RCP C-76	C-443
ACP C-428	D-1869

ABS SEWER PIPE	JOINT SPEC.
SOLID WALL 6" DIA. SDR 23.5	D-2751
ABS D-2751	D-2751
ABS COMPOSITE/TRUSS PIPE	
8"-15" DIA.	D-2680
ABS D-2680	D-2680
PVC GRAVITY SEWER PIPE	
6"-15" DIA. SDR 26	D-3212 OR D-2855
D-3034	D-3212 OR D-2855
18" -27" DIA. F/DY=46	D-3212 OR D-2855
F-679	D-3212 OR D-2855
CISP A-74	C-864
DIP A-21.51	A-21.11

(NOTE: THE DISTRICT HAS APPROVED LESS COMMON PIPE MATERIALS ON A QUALIFIED BASIS IN ADDITION TO THOSE ABOVE. PLEASE CONTACT THE DISTRICT IF CONSIDERING USING PIPE NOT LISTED ABOVE.)

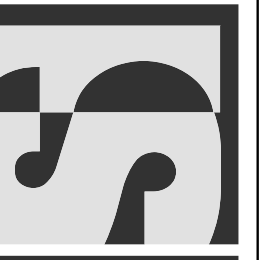
6. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/2" THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
7. "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS.
8. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYESADDLE OR HUB-TEE SADDLE.
 2. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 3. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
9. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS:

THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CAN NOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.
10. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

SPECIFICATIONS - 2
KENSINGTON SCHOOL
ARLINGTON HEIGHTS, ILLINOIS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

9575 W. Higgins Road., Suite 700,
Rosemont, Illinois 60018
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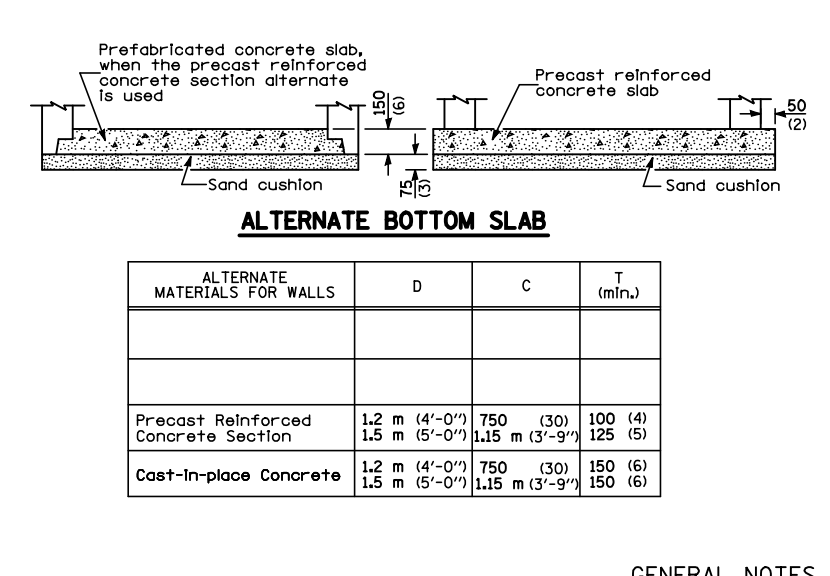
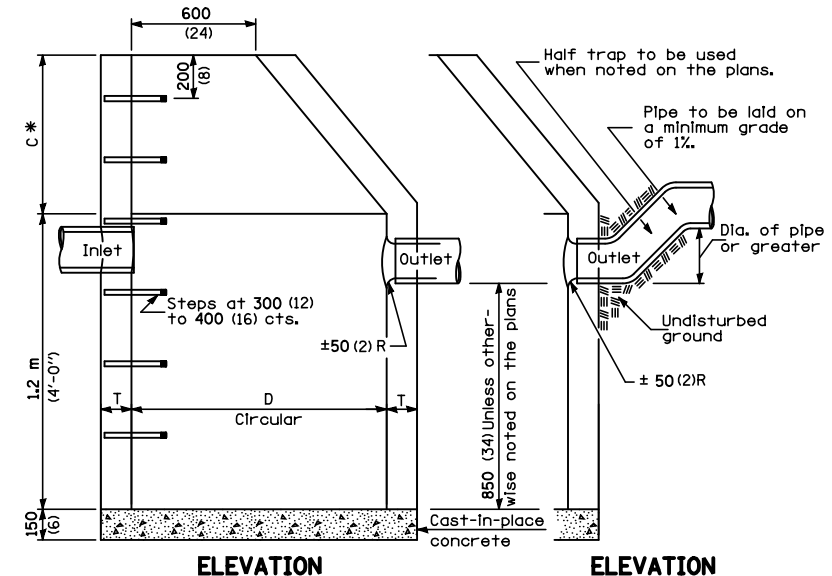
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02/12/16

JOB NO.
6124.07

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GENERAL NOTES

All catch basins shall be 1.2 m (4'-0") in diameter unless otherwise noted on the plans.

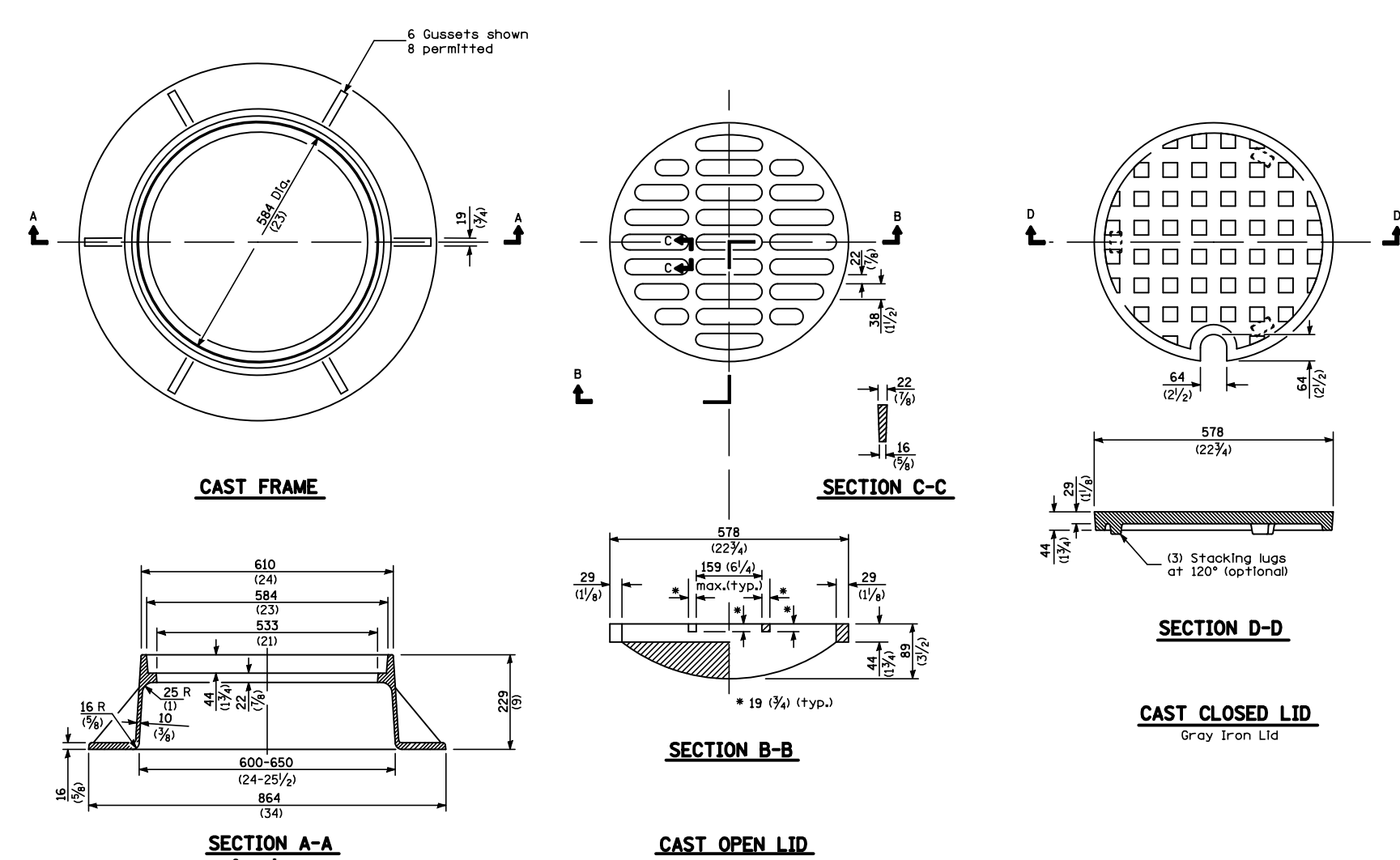
Dimension C for precast reinforced concrete section may vary from the dimension given to plus 150 mm (6").

See Standard 602001 for details of steps.

All dimensions are in millimeters (inches) unless otherwise shown.

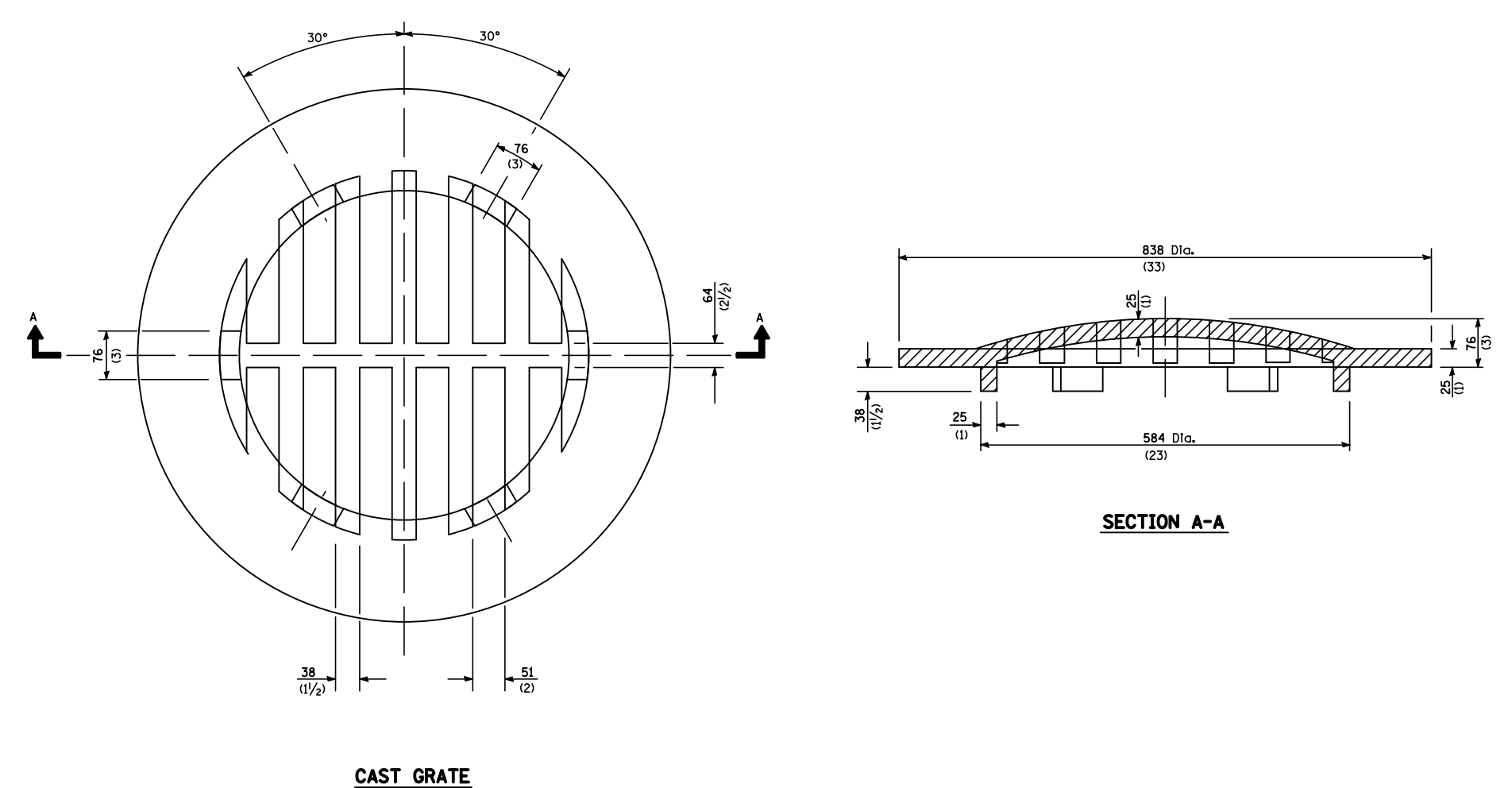
CATCH BASIN TYPE A

STANDARD 602001



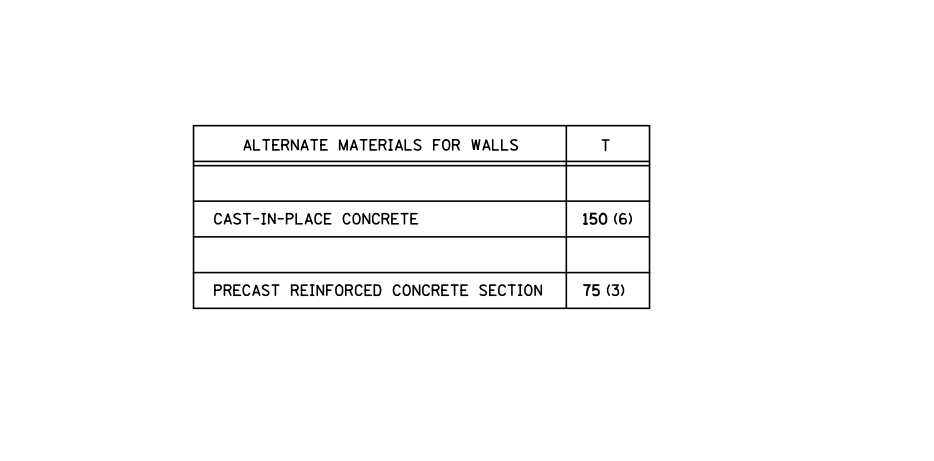
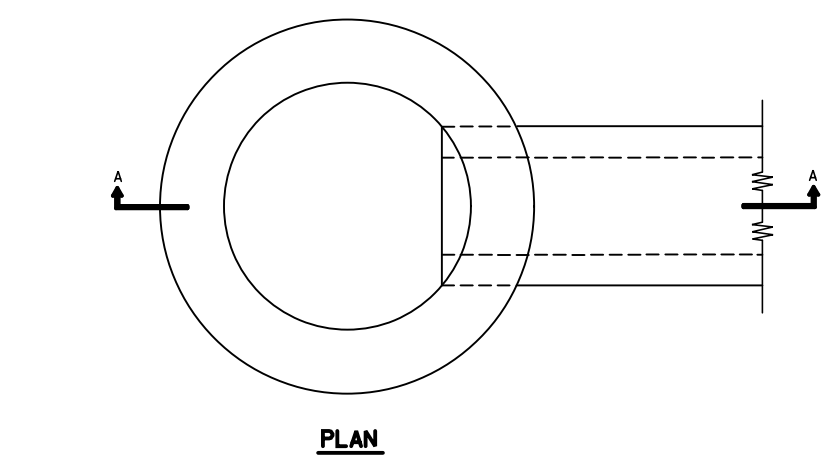
FRAME AND LIDS TYPE 1

STANDARD 604001-02



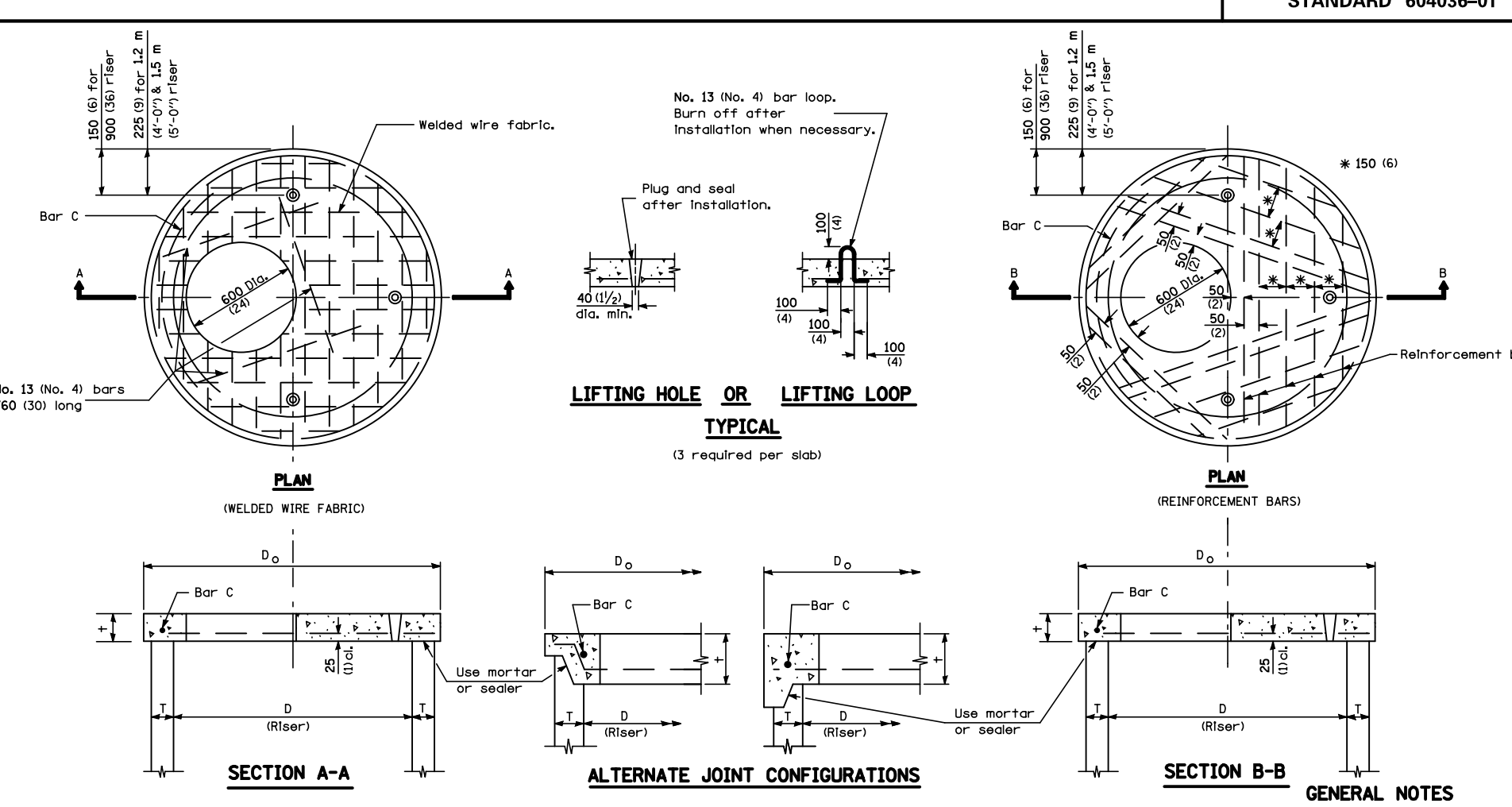
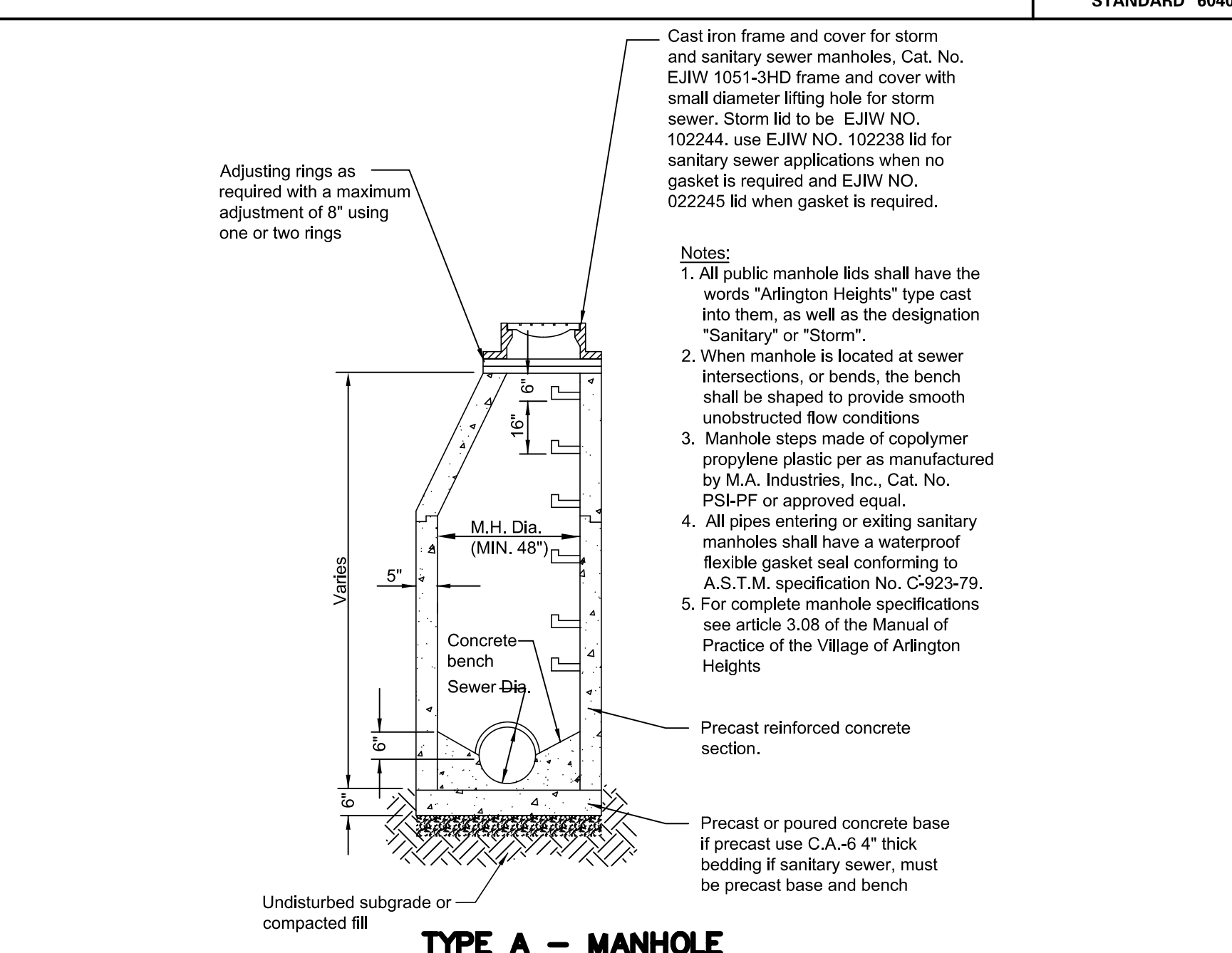
GRATE TYPE 8

STANDARD 604036-01



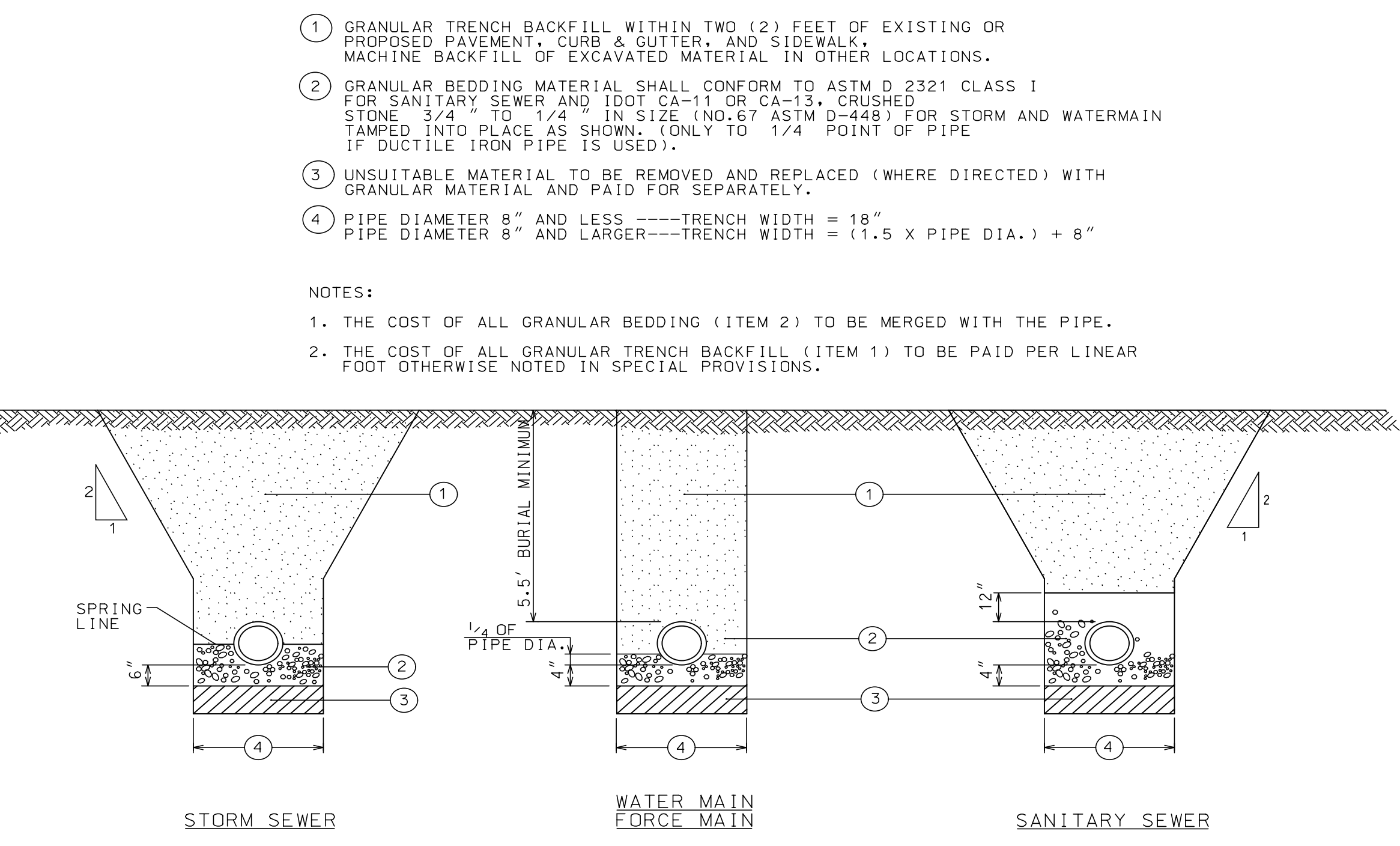
INLET - TYPE A

STANDARD 602301-01

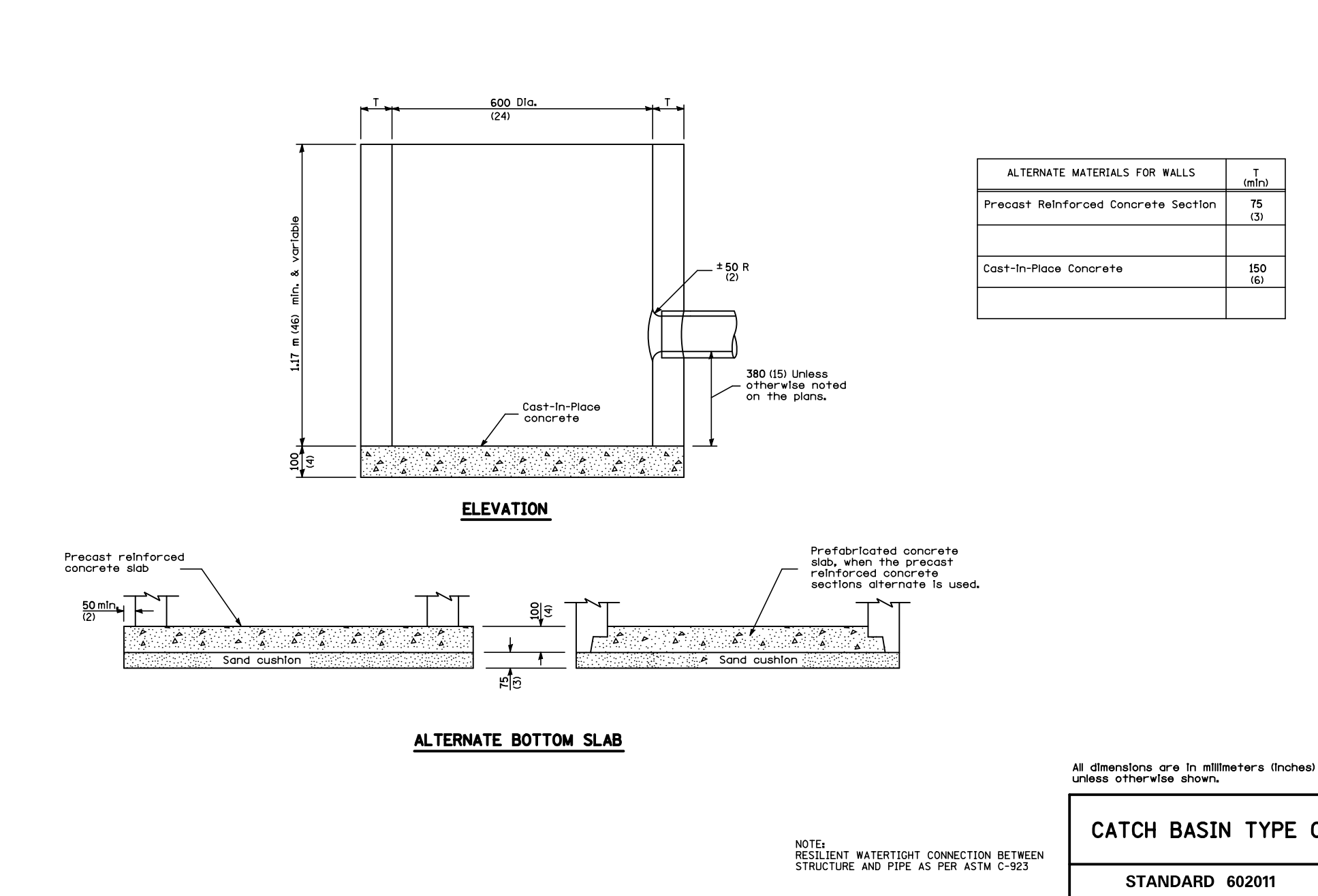


PRECAST REINFORCED CONCRETE FLAT SLAB TOP

STANDARD 602601-01

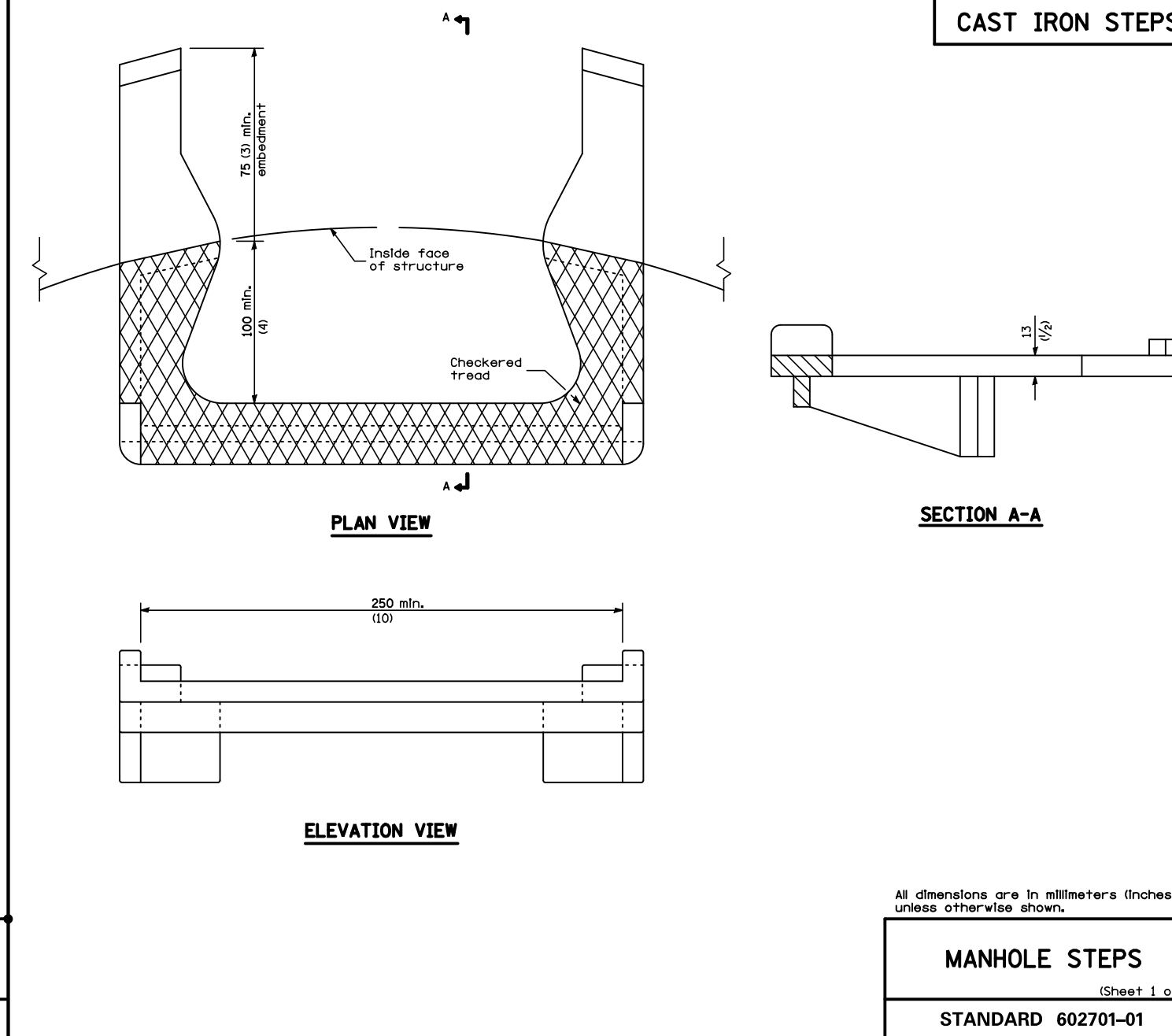


CAD-DTLS/SPDTLS/CO05.DTL



CATCH BASIN TYPE C

STANDARD 602011



MANHOLE STEPS

STANDARD 602701-01

DETAIL 1

KENSINGTON SCHOOL
ARLINGTON HEIGHTS, ILLINOIS

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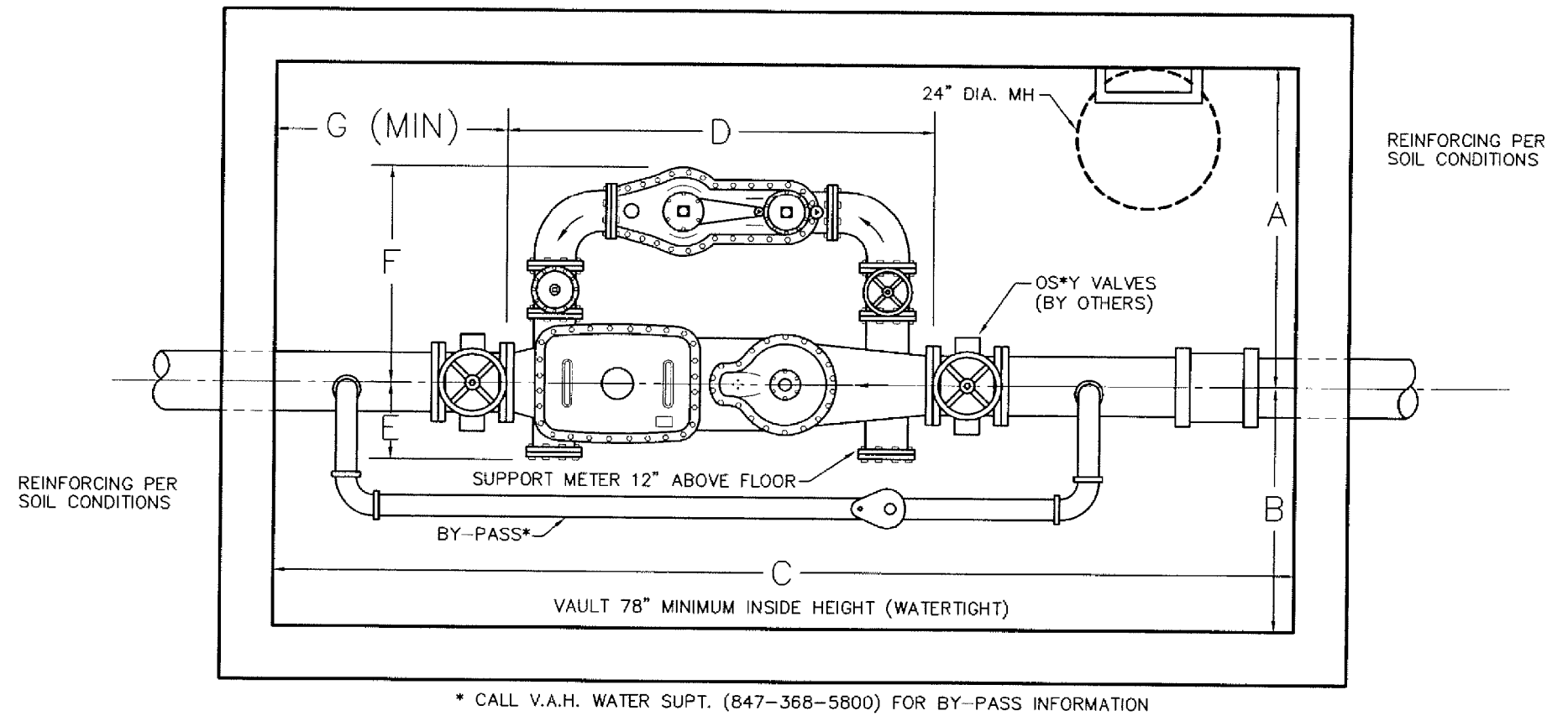
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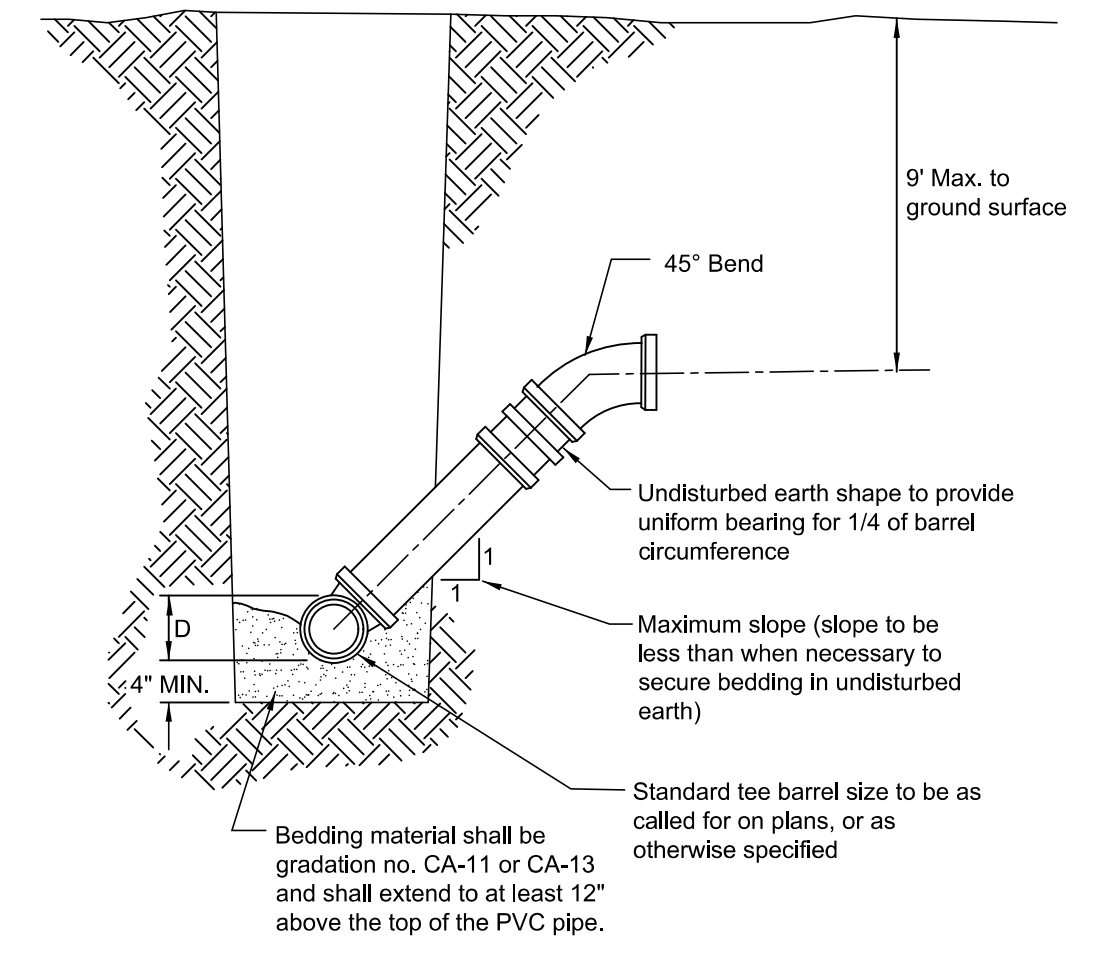
NO.	DATE	REMARKS

SIZE	A"	B"	B*"	C"	D"	E"	F"	G"	G*"	* WITH BY-PASS
4"	42	18	30	120	33	7 1/8	21 1/8	24	42	
6"	48	24	36	120	45	8 1/2	26 1/2	24	42	
8"	54	30	36	144	53	10 3/8	32 3/8	24	42	
10"	60	36	42	180	68	13 1/2	42	30	54	



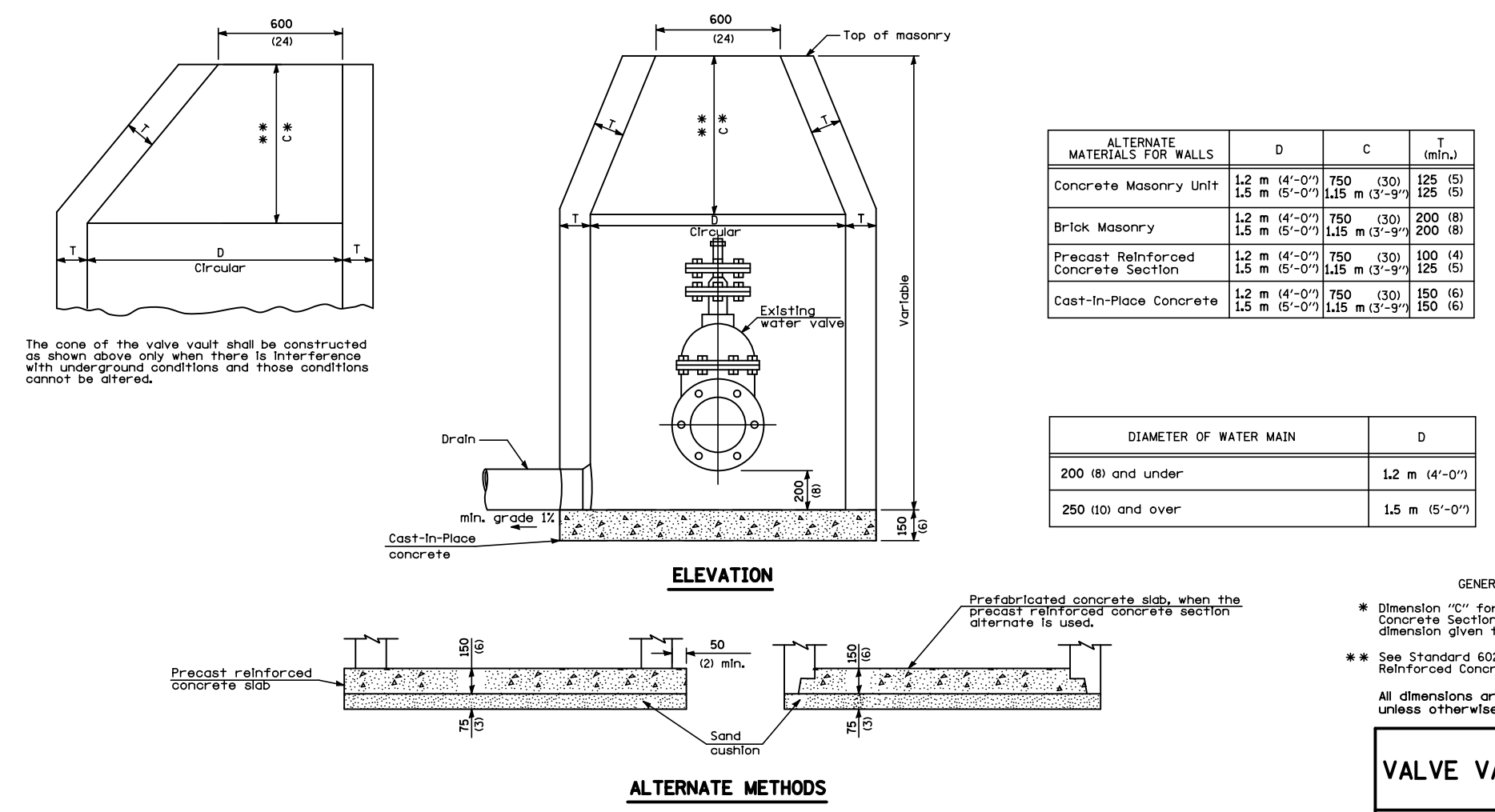
WATER METER VAULT DETAIL
VILLAGE OF ARLINGTON HEIGHTS
DEPARTMENT OF PUBLIC WORKS
WATER UTILITY OPERATIONS

Drawn By: GW3
Checked By: RBH
Date: 6/2/2007



Note:
Risers to be constructed in lieu of wyes where sewer depth exceeds 12' for pipe material and concrete (See Specifications)

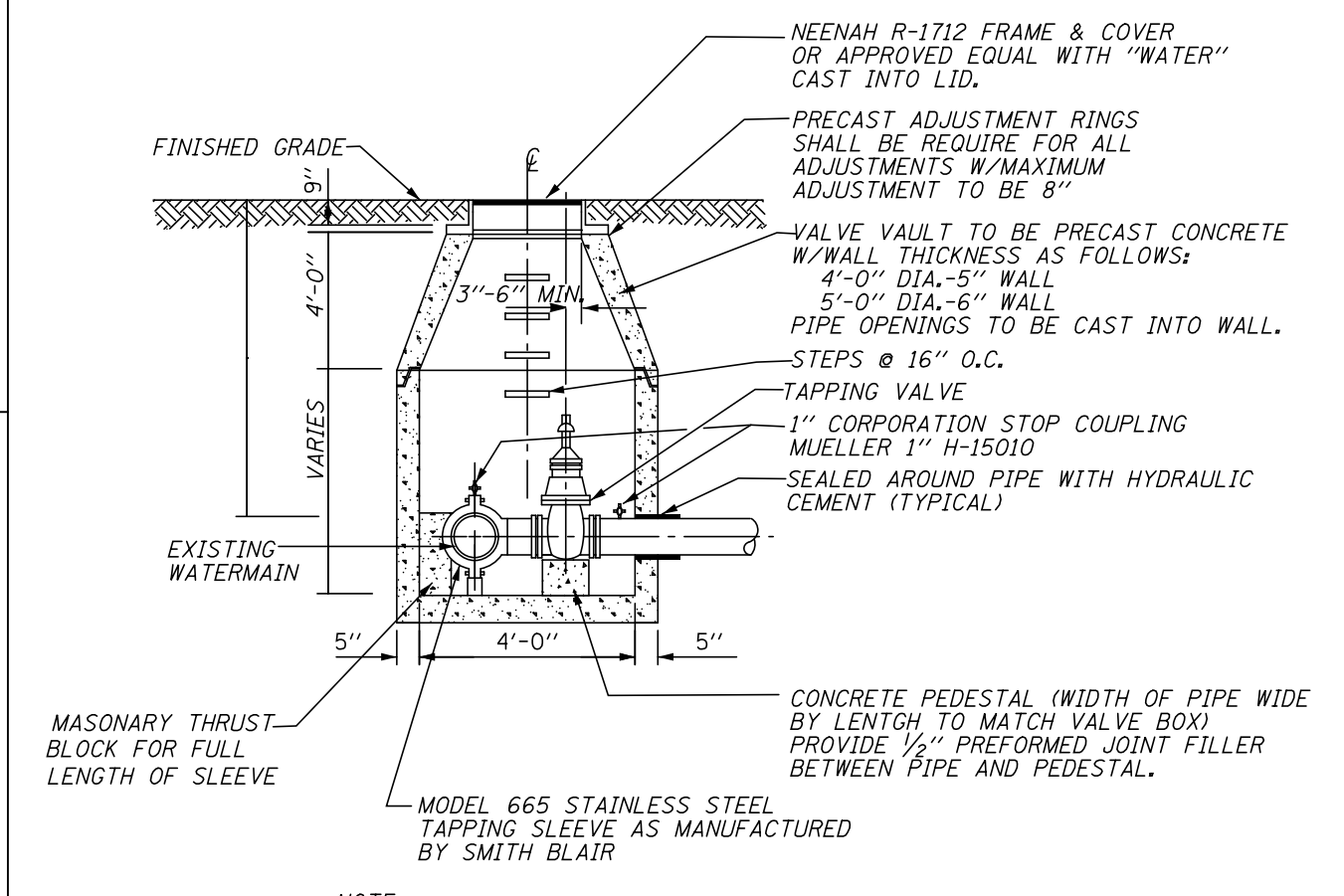
TYPICAL RISER FOR SERVICE LATERAL



ALTERNATE MATERIALS FOR WALLS	D	C	MIN.
Concrete Masonry Unit	1.2 m (4'-0")	750 (30)	125 (5)
Brick Masonry	1.5 m (5'-0")	1.5 m (5'-0")	200 (8)
Precast Reinforced Concrete Section	1.2 m (4'-0")	750 (30)	100 (4)
Cast-In-Place Concrete	1.5 m (5'-0")	1.5 m (5'-0")	150 (6)

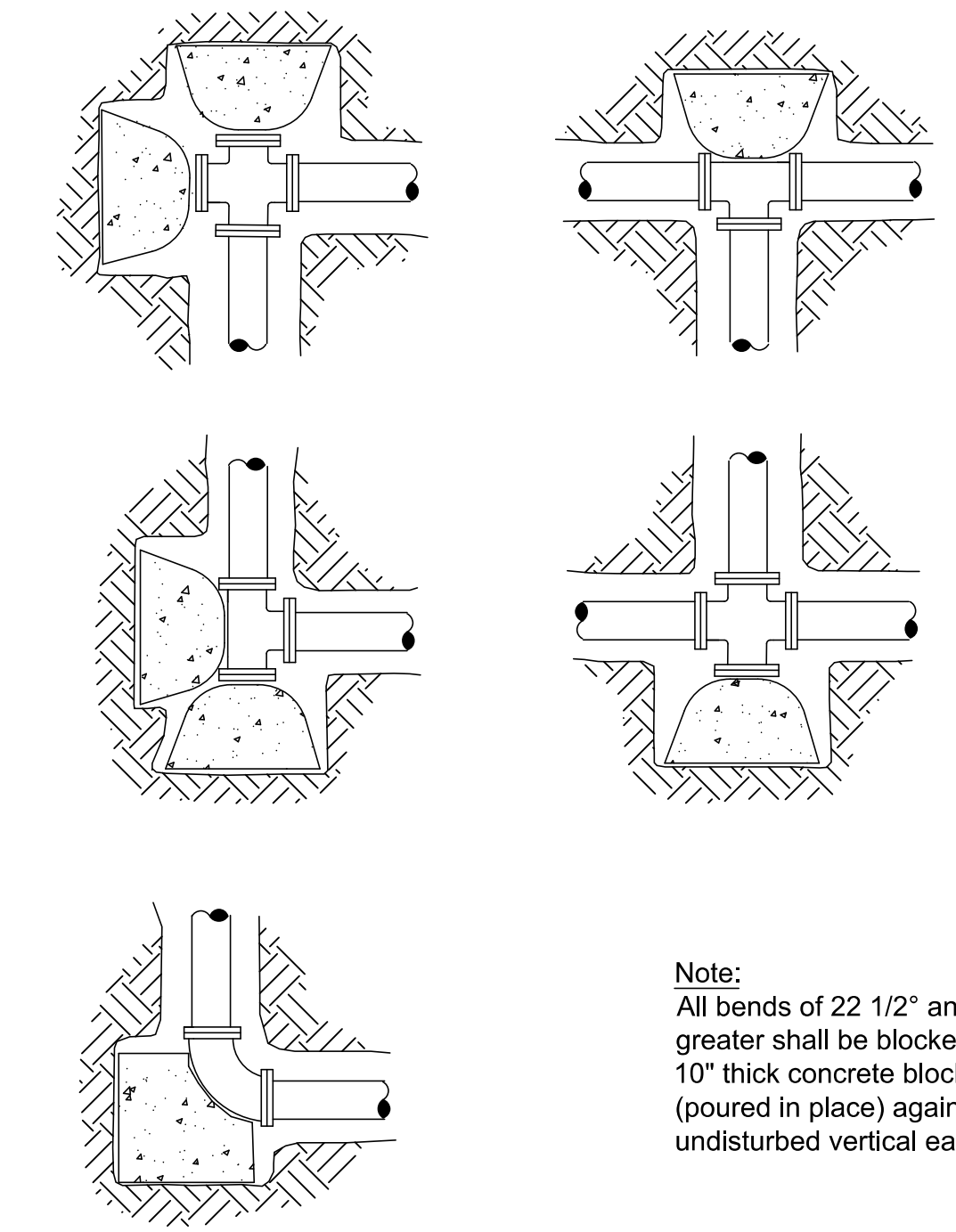
DIAMETER OF WATER MAIN	D
200 (8) and under	1.2 m (4'-0")
250 (10) and over	1.5 m (5'-0")

VALVE VAULT TYPE A
STANDARD 602501



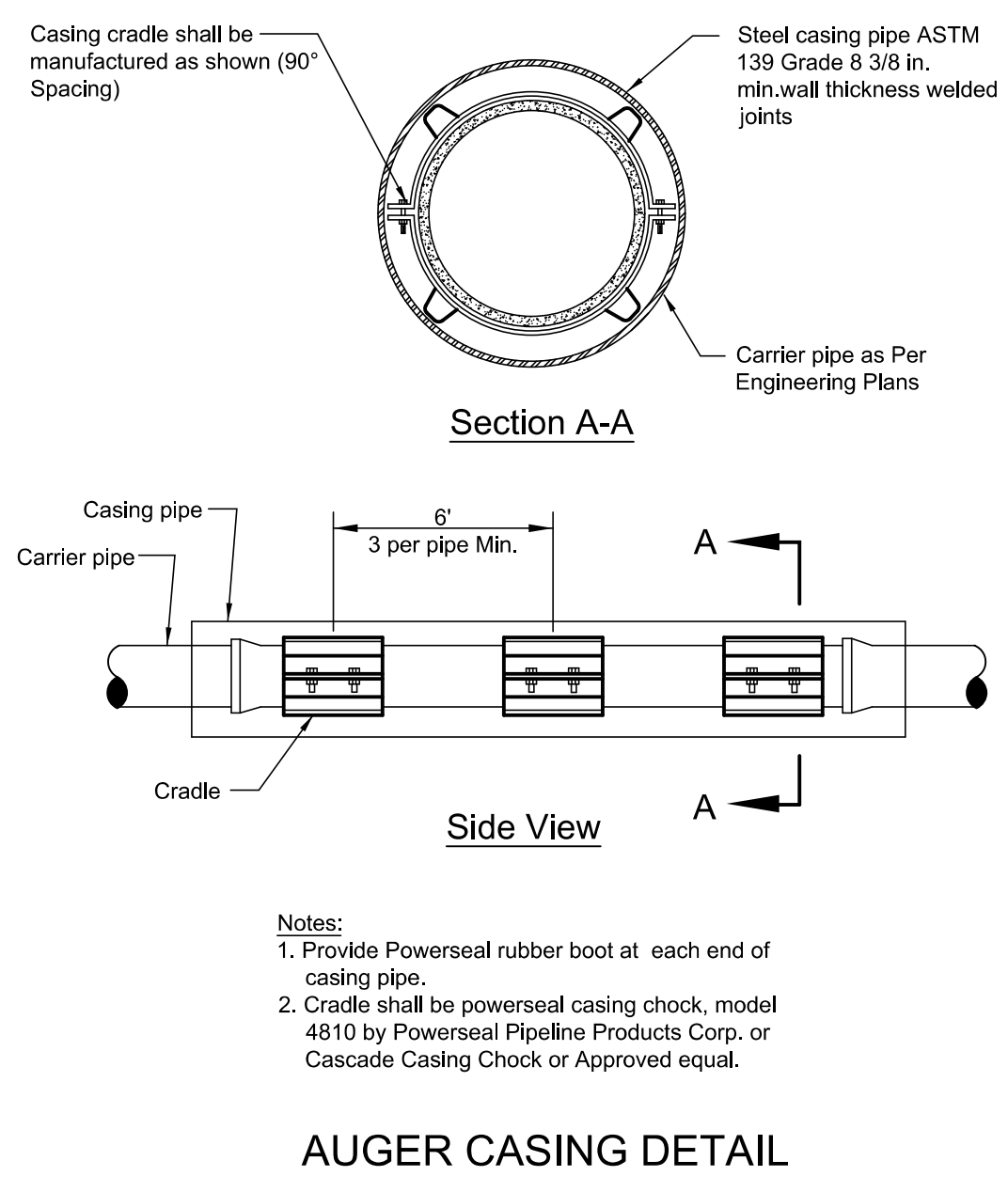
- NOTE:
- IT IS PREFERRED THAT PRECAST CONCRETE BASE OF THE VALVE VAULT OF CAST INTEGRAL WITH LOWEST WALL SECTION.
 - ALL JOINTS BETWEEN PRE-CAST ELEMENTS ADJUSTING RINGS AND MANHOLE FRAMES ON ALL UNDERGROUND STRUCTURES SHALL BE SET IN PLACE WITH EZ STIK STR OR APPROVED EQUAL, AS APPROVED BY THE VILLAGE ENGINEER.
 - ALL JOINTS ARE TO BE TUCKPOINT WITH HYDRAULIC CEMENT.

TYPICAL PRESSURE CONNECTION IN VALVE VAULT
NOT TO SCALE

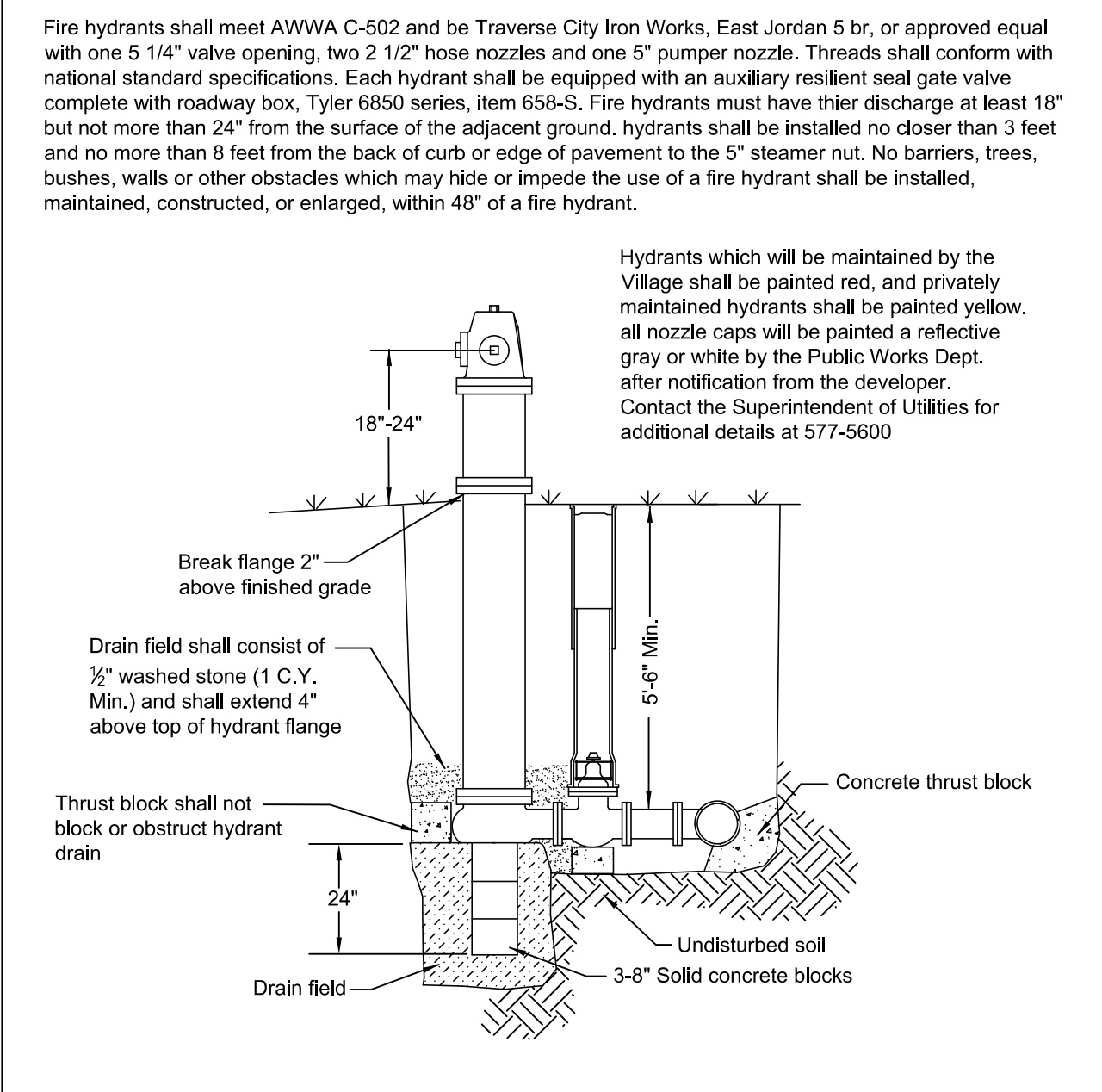


Note:
All bends of 22 1/2° and greater shall be blocked with a 10" thick concrete block (poured in place) against an undisturbed vertical earth face.

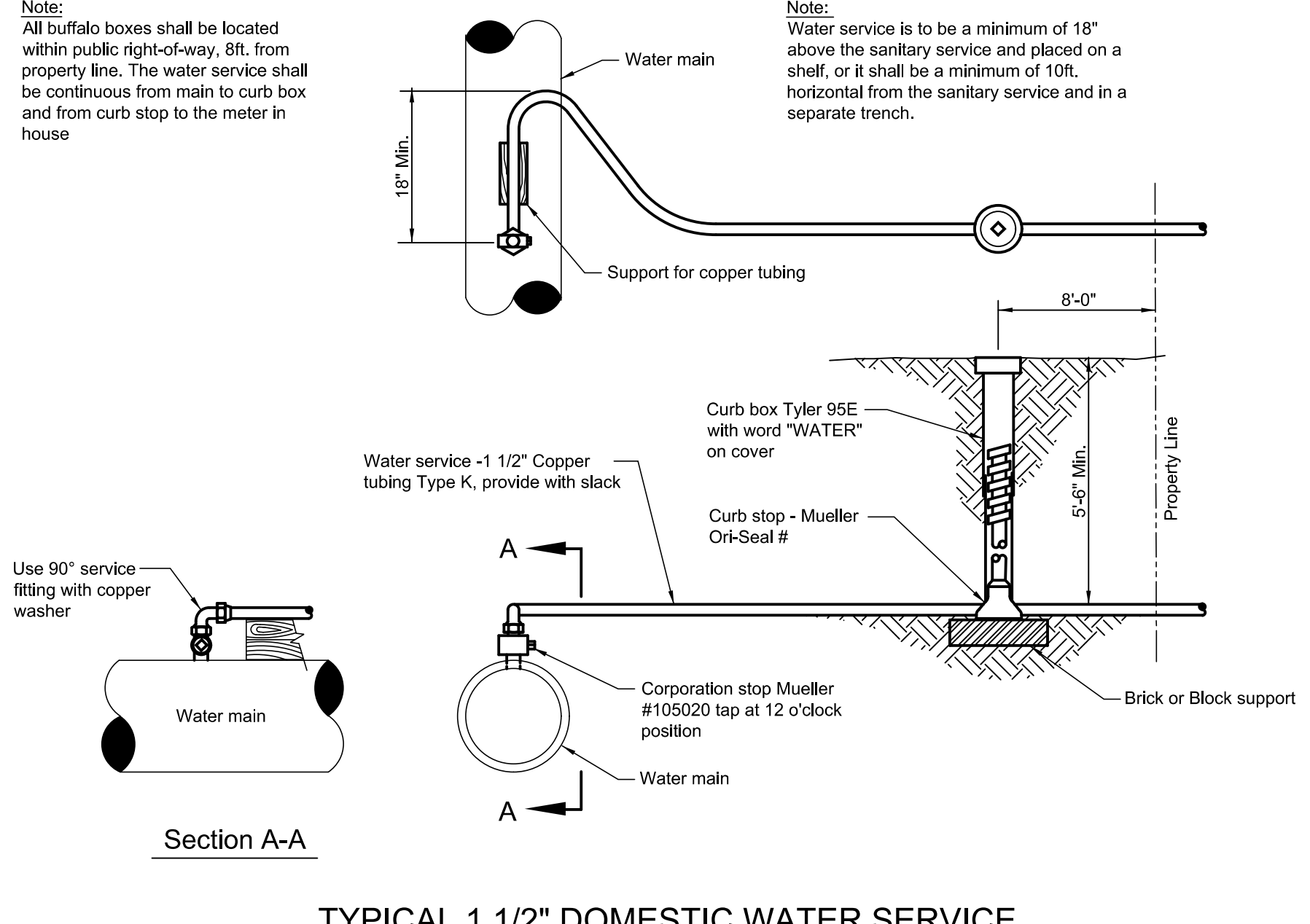
THRUST BLOCK INSTALLATIONS



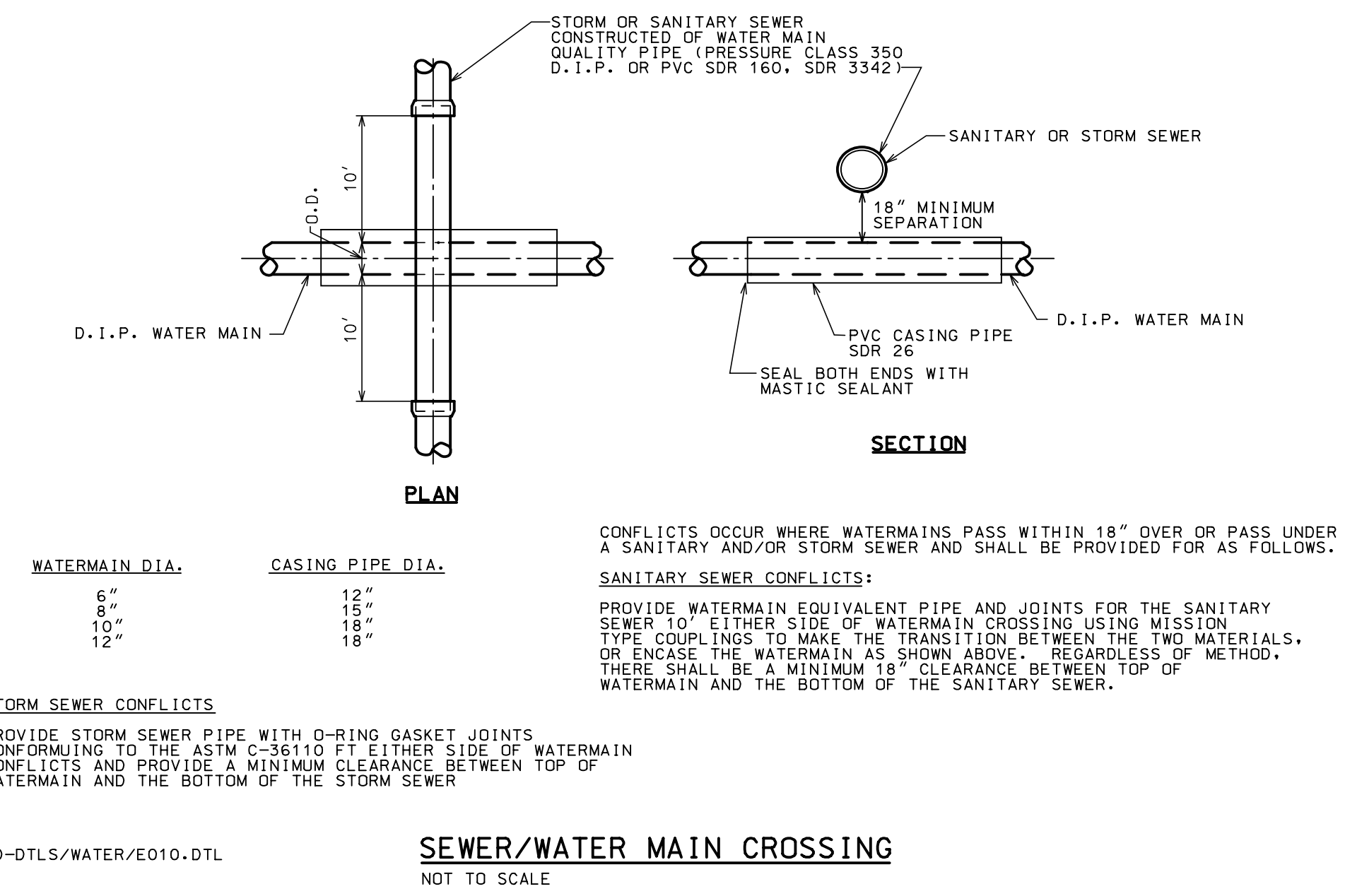
AUGER CASING DETAIL



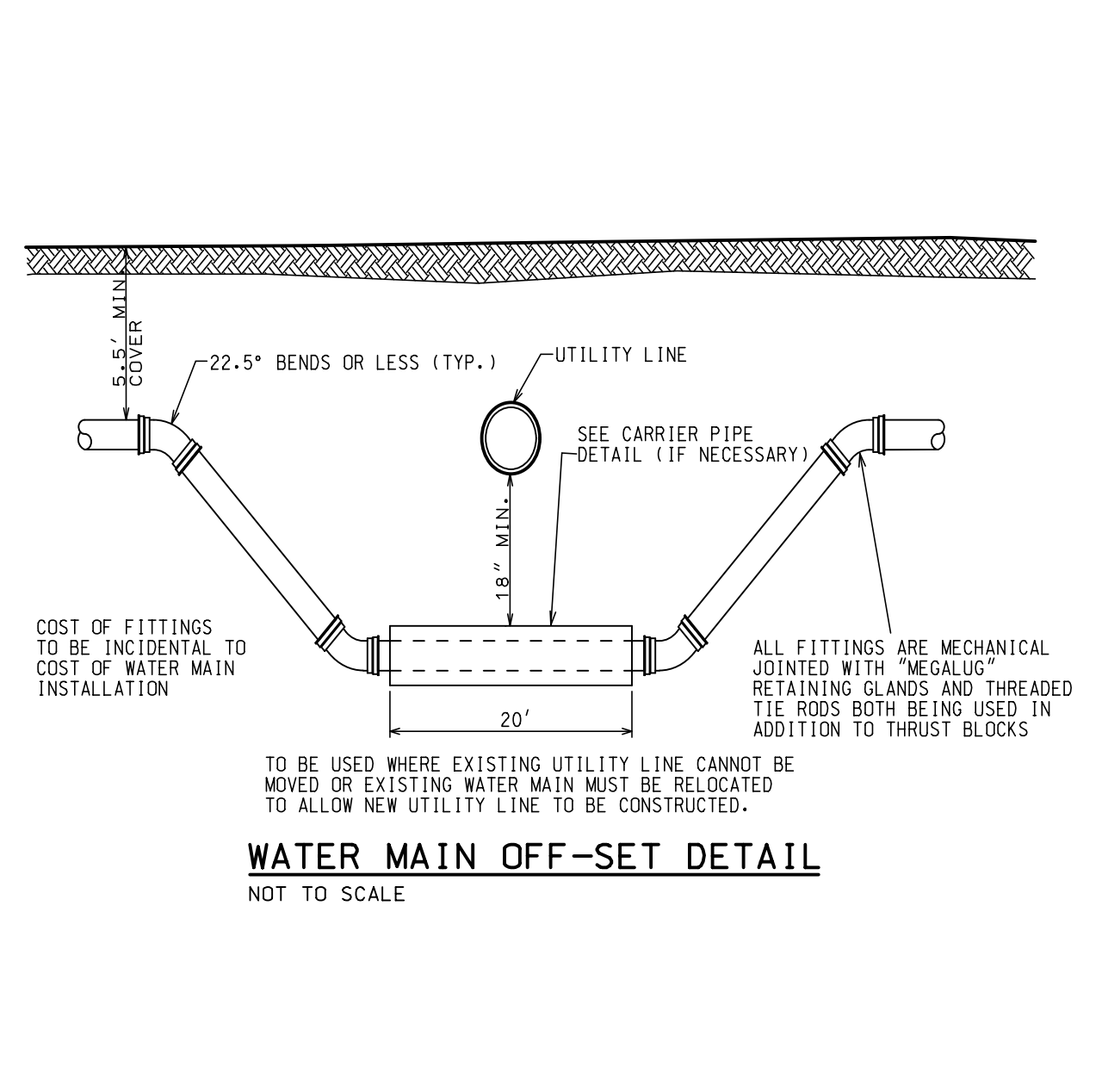
FIRE HYDRANT



TYPICAL 1 1/2" DOMESTIC WATER SERVICE



SEWER/WATER MAIN CROSSING
NOT TO SCALE



WATER MAIN OFF-SET DETAIL
NOT TO SCALE

DETAIL 2

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ARLINGTON HEIGHTS, ILLINOIS

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