

Received 7/10/01 Sent Comments 7/23/01

PROPRIETOR

SCRIPPS-PARK ASSOCIATES, LLC.
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 FARMINGTON HILLS, MI 48334
 (248) 488-5543
 (248) 568-1858 FAX

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- C1.1 TOPO & DEMO PLAN-EAST
- C1.2 TOPO & DEMO PLAN-WEST
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PROJECT BENCHMARKS

(CITY OF DETROIT DATUM)

- SITE BENCH MARK NO. 4
 ARROW ON HYDRANT.
 LOCATED AT THE SOUTHEAST CORNER OF WILLIS AND LODGE.
 ELEVATION = 142.18
- SITE BENCH MARK NO. 5
 ARROW ON HYDRANT.
 LOCATED ON THE WEST SIDE OF LODGE, 1st NORTH OF WILLIS.
 ELEVATION = 144.00
- SITE BENCH MARK NO. 6
 ARROW ON HYDRANT.
 LOCATED AT THE SOUTHEAST CORNER OF CANFIELD AND LODGE.
 ELEVATION = 143.82
- SITE BENCH MARK NO. 7
 ARROW ON HYDRANT.
 LOCATED ON THE SOUTH SIDE OF CANFIELD, 2nd WEST OF LODGE.
 ELEVATION = 142.81
- SITE BENCH MARK NO. 8
 ARROW ON HYDRANT.
 LOCATED AT THE SOUTHEAST CORNER OF CANFIELD AND GIBSON.
 ELEVATION = 142.34
- SITE BENCH MARK NO. 9
 ARROW ON HYDRANT.
 LOCATED ON THE EAST SIDE OF GIBSON, NORTHWEST CORNER WILLIS.
 ELEVATION = 140.71

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

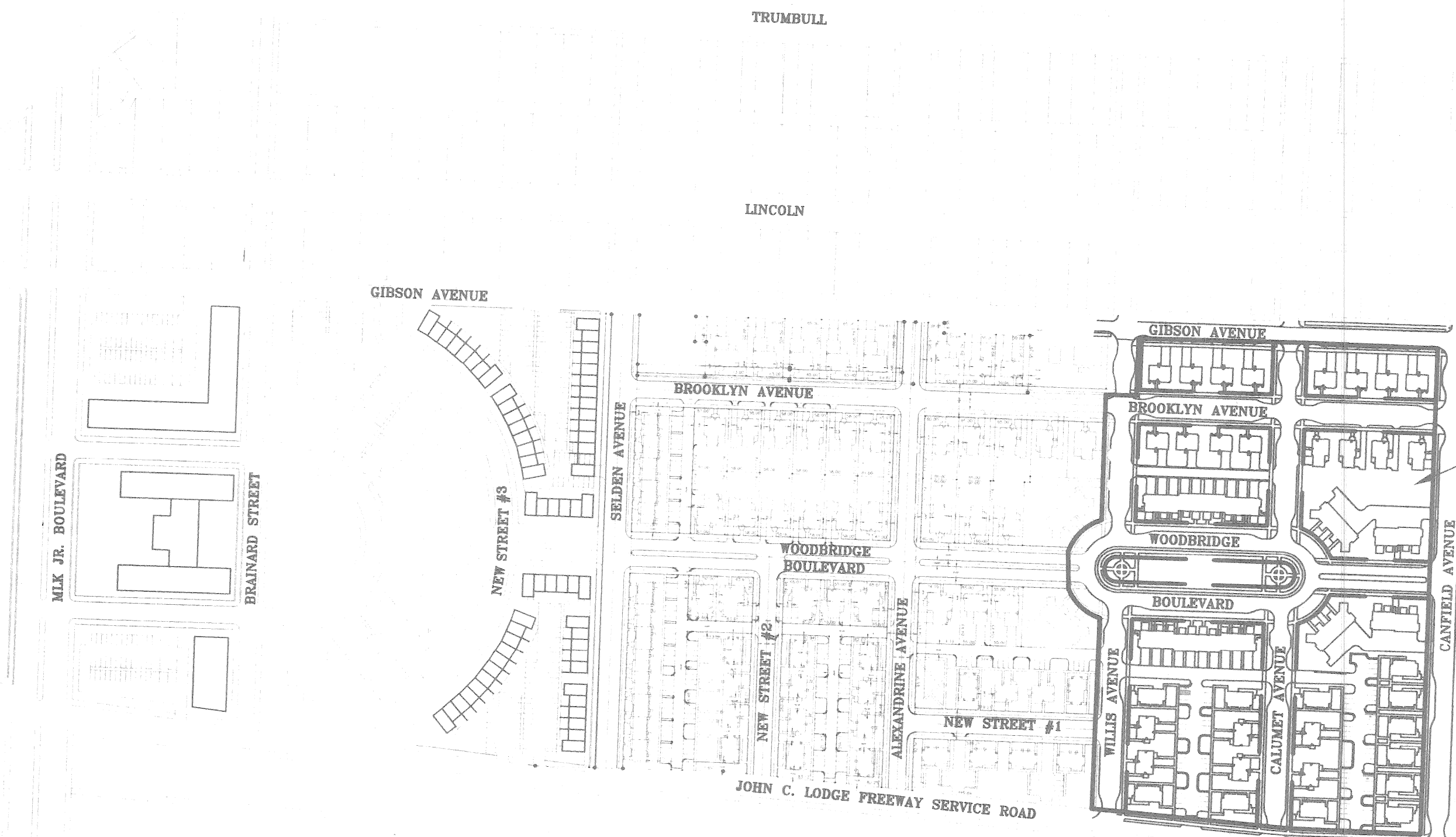
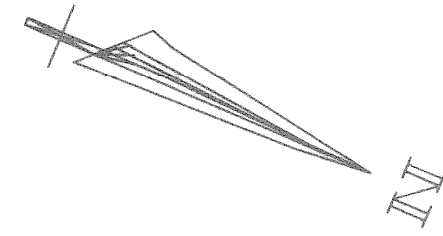
(R) = UTILITY SHOWN FROM RECORDS OR PLANS, & FIELD LOCATED WHERE POSSIBLE.

PRIOR TO THE PLANNED BUILDING IMPROVEMENTS, AND/OR CONSTRUCTION, THE REPRESENTATIVE UTILITY COMPANIES MUST BE NOTIFIED TO STAKE THE PRECISE LOCATION OF THEIR UTILITIES.

WOODBRIIDGE ESTATES-SECTOR I

CITY OF DETROIT

WAYNE COUNTY, MICHIGAN



LOCATION MAP
1"=200'

EXISTING	LEGEND	PROPOSED
	WATERMAIN	
	COMBINE SEWER	
	SANITARY LEAD	
	STORM LEAD	
	AMERITECH CABLES	
	OVERHEAD ELECTRIC	
	UNDERGROUND ELECTRIC	
	FENCE LINE	
	FIRE HYDRANT	
	WATER BOX	
	GATE VALVE	
	SEWER MANHOLE	
	CATCH BASIN	
	GAS VALVE	
	PHONE BOX	
	LIGHT POLE	
	PHONE MANHOLE	
	BARrier FREE	
	SPOT ELEVATION	
	DRAINAGE ARROW	
	PROPOSED GRADE	
	TEMPORARY INLET SEDIMENT FILTER	
	SEDIMENT CONTROL FENCING	

GENERAL NOTES

1. CONTRACTOR SHALL SECURE AND COMPLY WITH ALL REQUIREMENTS OF ALL PERMITS REQUIRED FOR THIS WORK.
2. CONTRACTOR SHALL NOT OBSTRUCT TRAFFIC ON PUBLIC ROADS EXCEPT AS AUTHORIZED BY PERMIT.
3. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF DETROIT & ANY FEDERAL, STATE AND COUNTY AGENCIES HAVING JURISDICTION OVER THE WORK.
4. CALL MISS DIG (1-800-482-7171) THREE WORKING DAYS (72 HOURS PRIOR) PRIOR TO THE START OF ANY CONSTRUCTION.
5. ALL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETELY INCLUDING: FOUNDATION AND ATTACHMENTS, TREE STUMPS AND ROOT STRUCTURES, PAVEMENT BASE MATERIAL, ABANDONED FENCES, PIPES, ETC. AND SHALL BE PROPERLY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE DEVELOPER.
6. GREAT CARE SHALL BE TAKEN BY ALL CONTRACTORS TO AVOID DAMAGE TO VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION AND TO KEEP THE CONSTRUCTION AREA TO A MINIMUM. DRIVING AND PARKING VEHICLES AND STORAGE OF MATERIALS AND SUPPLIES SHALL NOT BE PERMITTED OUTSIDE THE LIMITS OF CONSTRUCTION.
7. AREAS REQUIRING RESTORATION SHALL BE REPAIRED USING MATERIALS OF AT LEAST EQUAL QUALITY AND SHALL BE INSTALLED PROMPTLY AFTER COMPLETION OF THE DISRUPTIVE WORK SO AS TO MINIMIZE INCONVENIENCE AND UNSIGHTLINESS. RESTORATION WORK REQUIRES INSPECTION AND APPROVAL OF THE PERMITTING AGENCY AND THE OWNER.
8. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED WITHIN THE WORK AREA AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, PONDS, AND WETLANDS.
9. THE CONTRACTOR SHALL PRESERVE NATURAL VEGETATION AS MUCH AS POSSIBLE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL APPLICABLE NPDES REGULATIONS, INCLUDING INSPECTION, RESTORATION, AND RECORD KEEPING REQUIREMENTS.
11. ALL UTILITY TRENCHES BELOW, OR WITHIN 3 FEET OF THE EDGE OF EXISTING OR PROPOSED PAVEMENTS SHALL HAVE FULL DEPTH COMPACTED SAND BACKFILL.
12. ALL UTILITY WORK SHALL BE PROPERLY PERMITTED, INSPECTED AND APPROVED. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REGULATIONS AND REQUIREMENTS IMPOSED UPON THIS WORK. REFER TO THE VARIOUS UTILITY STANDARD CONSTRUCTION DETAIL SHEETS.
13. ALL TRENCHES ACROSS ROADWAYS, DRIVEWAYS, SIDEWALKS AND PARKING LOTS SHALL BE COMPACTED TO 95% PROCTOR (MINIMUM).
14. MAINTAIN 18 INCHES MINIMUM VERTICAL SEPARATION BETWEEN ALL UTILITY CROSSINGS AND 10 FEET MINIMUM HORIZONTAL SEPARATION BETWEEN ALL UTILITIES.
15. ALL SEWER PIPE SHALL BE C-76, CL. IV TONGUE AND GROOVE, RUBBER GASKET (PREMIUM JOINT) UNLESS OTHERWISE NOTED.
16. ALL PUBLIC WATER MAIN SHALL BE CL. 54 DUCTILE IRON PIPE AND BE LOCATED WITHIN A 12 FOOT WIDE EASEMENT, UNLESS OTHERWISE NOTED.
17. SANITARY LEAD SHALL BE 6" PVC SDR 23.5.
18. DOMESTIC WATER LEADS SHALL BE 1" K-COPPER PIPE.
19. CONNECTION TO THE EXISTING WATER MAIN SHALL BE MADE ONLY AFTER THE HYDROSTATIC AND THE BACTERIOLOGICAL TESTS HAVE BEEN SUCCESSFULLY COMPLETED AND APPROVED BY THE CITY ENGINEER. CONNECTION SHALL ONLY BE MADE IN THE PRESENCE OF THE CITY INSPECTOR. CONNECTION FOR THE PURPOSE OF "FLUSHING" SHALL NOT BE ALLOWED.
20. BARRIER FREE SIGNAGE SHALL BE PLACED IN FRONT OF EVERY DESIGNATED BARRIER FREE STALL.
21. ALL BARRIER FREE RAMPS SHALL BE A.D.A. COMPLIANT.
22. SEE ARCHITECTURAL PLANS ONLY BUILDING CONSTRUCTION LAYOUT.

PLAN REVISIONS	DATE	SHEETS ISSUED
CITY REVIEW	05/11/01	C1.0-C1.8
CITY REVIEW	06/08/01	C1.0-C1.9, D1-D3
REVISED PER CITY COMMENTS	07/10/01	C1.0-C1.9, D1-D3

Giffels-Webster Engineers, Inc.

407 E. FORT STREET SUITE 600 • DETROIT • MICHIGAN 48226 • (313) 962-4442

GWE #15615.02



MATCH LINE
SEE SHEET C1.2

DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL AND REPLACEMENT WORK ASSOCIATED WITH THE PROPOSED SITE IMPROVEMENTS. THIS WORK SHALL NOT EXTEND OUTSIDE OF THE PROJECT SITE WITHOUT PROPER PERMITS AND APPROVALS. ALL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETELY INCLUDING: FOUNDATIONS AND ATTACHMENTS, TREE STUMPS AND ROOT STRUCTURES, PAVEMENT BASE MATERIAL, ABANDONED FENCES, PIPES, ETC. AND SHALL BE PROPERLY DISPOSED OF OFF-SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
2. ALL FILLING AND BACKFILLING WORK PERFORMED WITHIN PROPOSED BUILDING OR PAVEMENT AREAS SHALL UTILIZE MDOT CLASS II MATERIAL, COMPACTED TO 95%, AND REQUIRES THE REVIEW, INSPECTION, AND APPROVAL OF THE SOILS ENGINEER. AREAS REQUIRING RESTORATION SHALL BE REPAIRED USING MATERIALS OF AT LEAST EQUAL QUALITY AND SHALL BE INSTALLED PROMPTLY AFTER COMPLETION OF THE DISRUPTIVE WORK SO AS TO MINIMIZE INCONVENIENCE AND UNSIGHTLINESS. RESTORATION WORK REQUIRES INSPECTION AND APPROVAL OF THE PERMITTING AGENCY AND THE OWNER.
3. SAWCUT AND REMOVE EXISTING CURB AND PAVEMENT AS SHOWN ON THE PLANS.
4. REMOVE EXISTING SEWER PIPE AND STRUCTURES AS SHOWN ON THE PLANS, AND BULK-HEAD PIPE AT THE END.
5. REMOVE EXISTING SANITARY AND STORM LEADS AS SHOWN ON THE PLANS, AND BULK-HEAD AT THE ENDS.
- 6.

LEGEND

	REMOVE PAVEMENT
	REMOVE CURB
	REMOVE PIPE SEGMENT
R	REMOVE STRUCTURE
A	ADJUST STRUCTURE

ISSUE:

DATE:	3/28/01 PRELIMINARY CITY REVIEW
	5/11/01 CITY REVIEW
	6/07/01 CITY REVIEW
	7/10/01 REVISED PER CITY COMMENTS



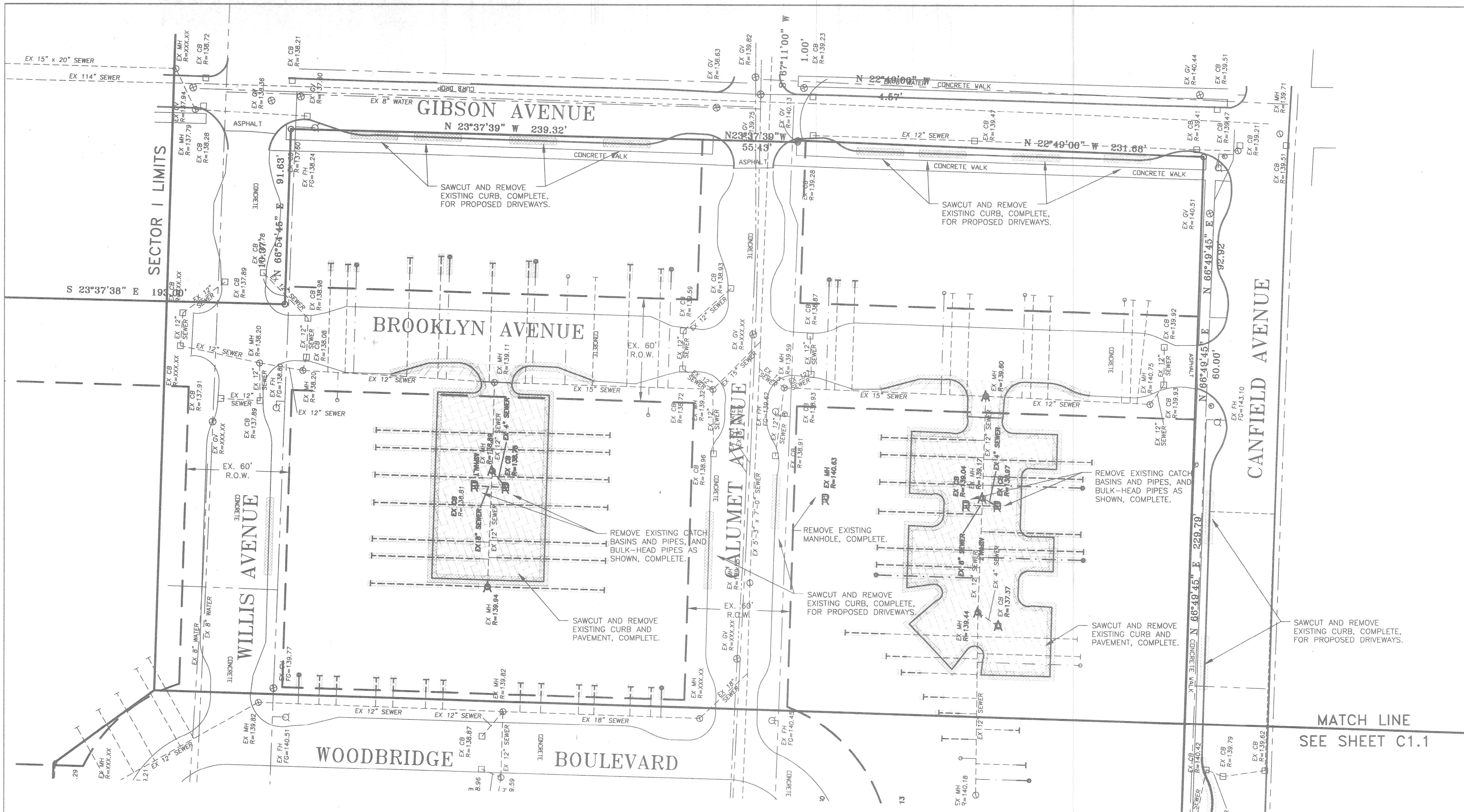
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SHEET TITLE:
TOPO & DEMO PLAN
 WOODBRIDGE ESTATES
 SECTOR 1-EAST
 DETROIT, WAYNE COUNTY, MICHIGAN

DATE:	6/07/01
SCALE:	1"=30'
SHEET:	C1.1
JOB:	15615.02D



LEGEND

	REMOVE PAVEMENT
	REMOVE CURB
	REMOVE PIPE SEGMENT
R	REMOVE STRUCTURE
A	ADJUST STRUCTURE

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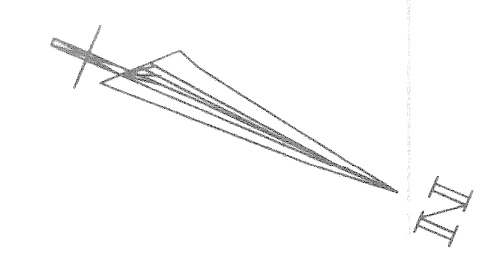


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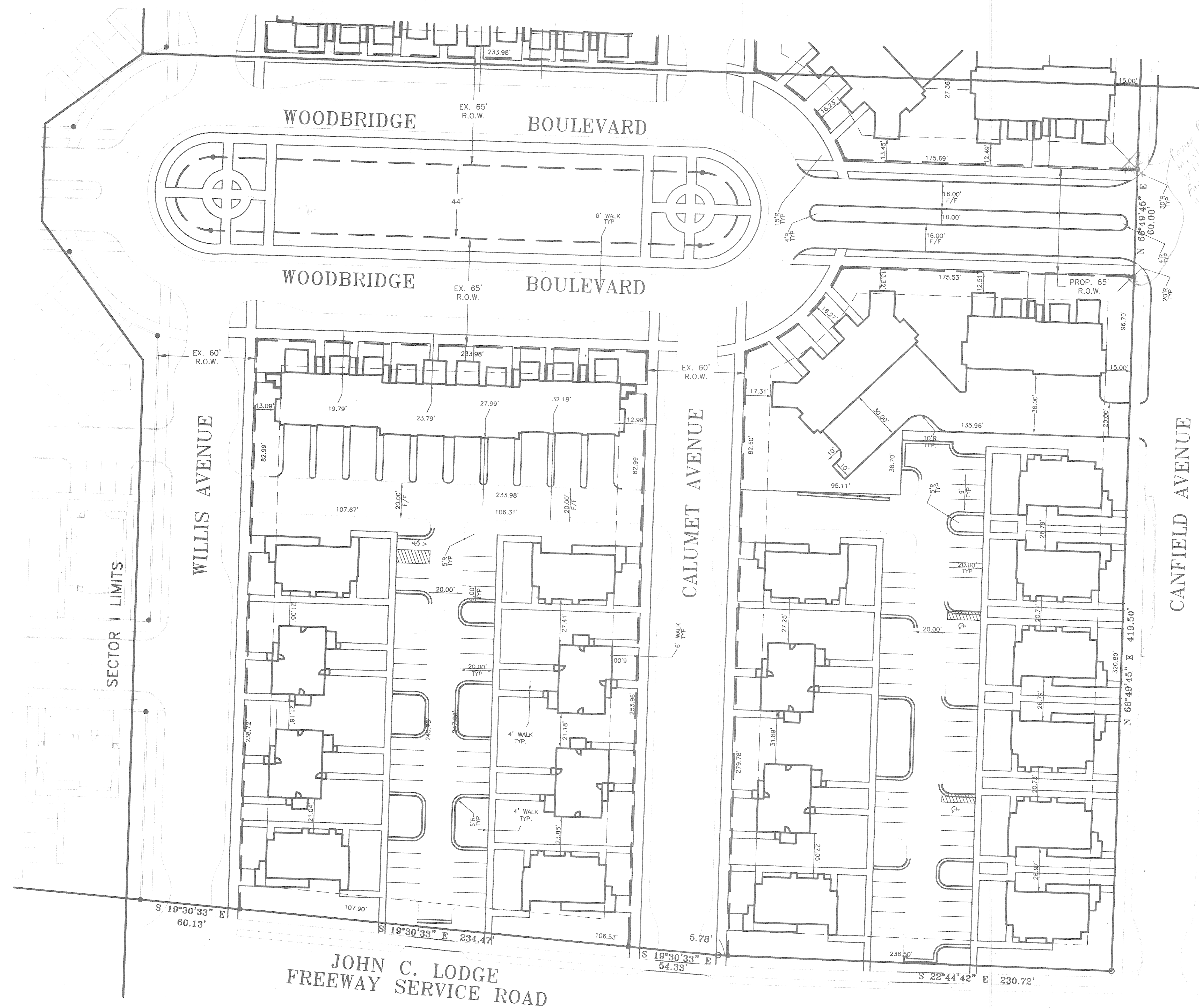
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SHEET TITLE:	TOPO & DEMO PLAN WOODBRIDGE ESTATES SECTOR I-WEST DETROIT, WAYNE COUNTY, MICHIGAN
DATE:	6/07/01
SCALE:	1"=30'
SHEET:	C1.2
JOB:	15615.02D



MATCH LINE
SEE SHEET C1.4



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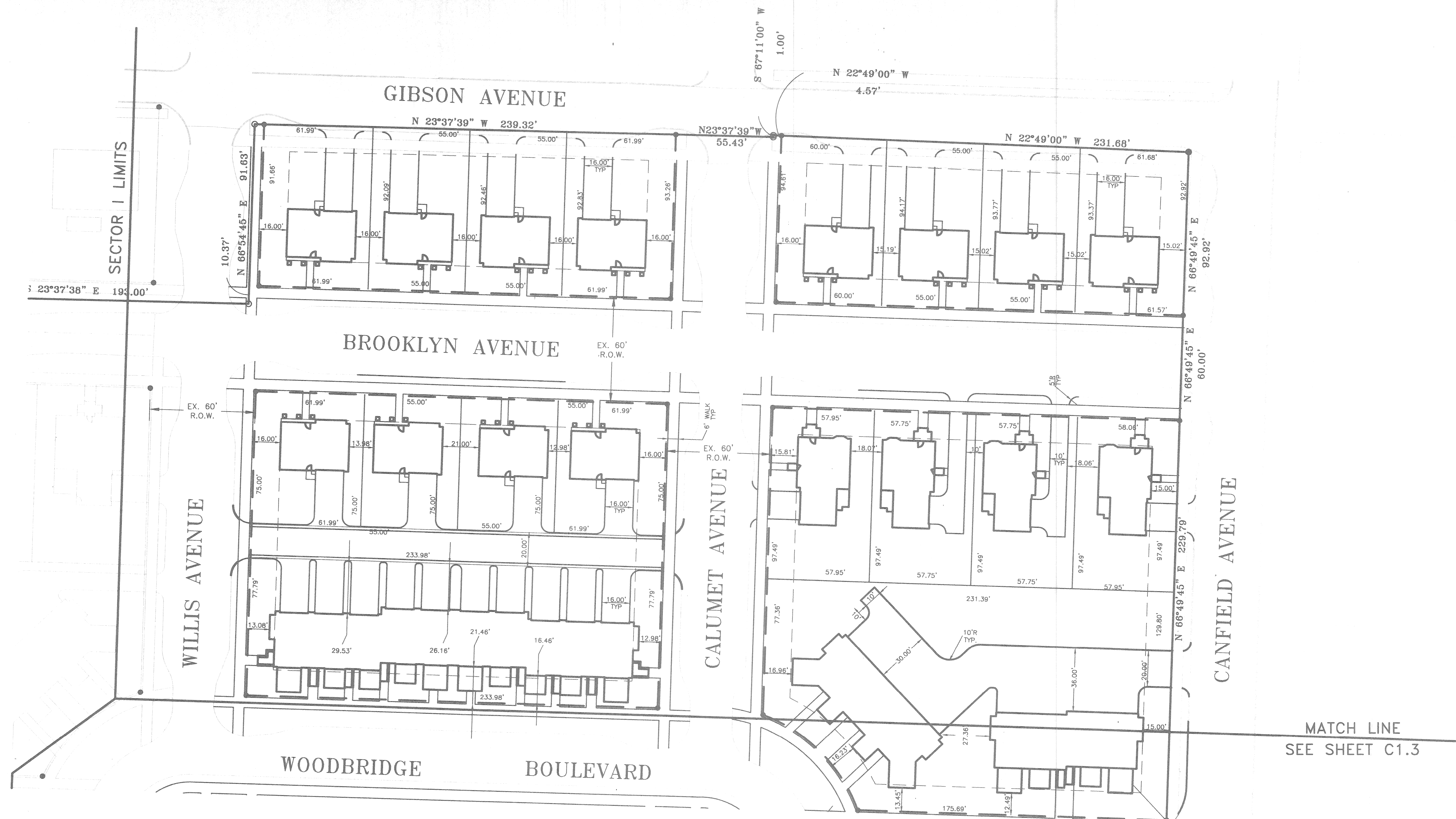
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SHEET TITLE:
GEOMETRIC PLAN
WOODBRIDGE ESTATES
SECTOR I-EAST
DETROIT, WAYNE COUNTY, MICHIGAN

DATE:	6/07/01
SCALE:	1"=30'
SHEET:	C1.3
JOB:	15615.02D



SECTOR I LIMITS

MATCH LINE
SEE SHEET C1.3

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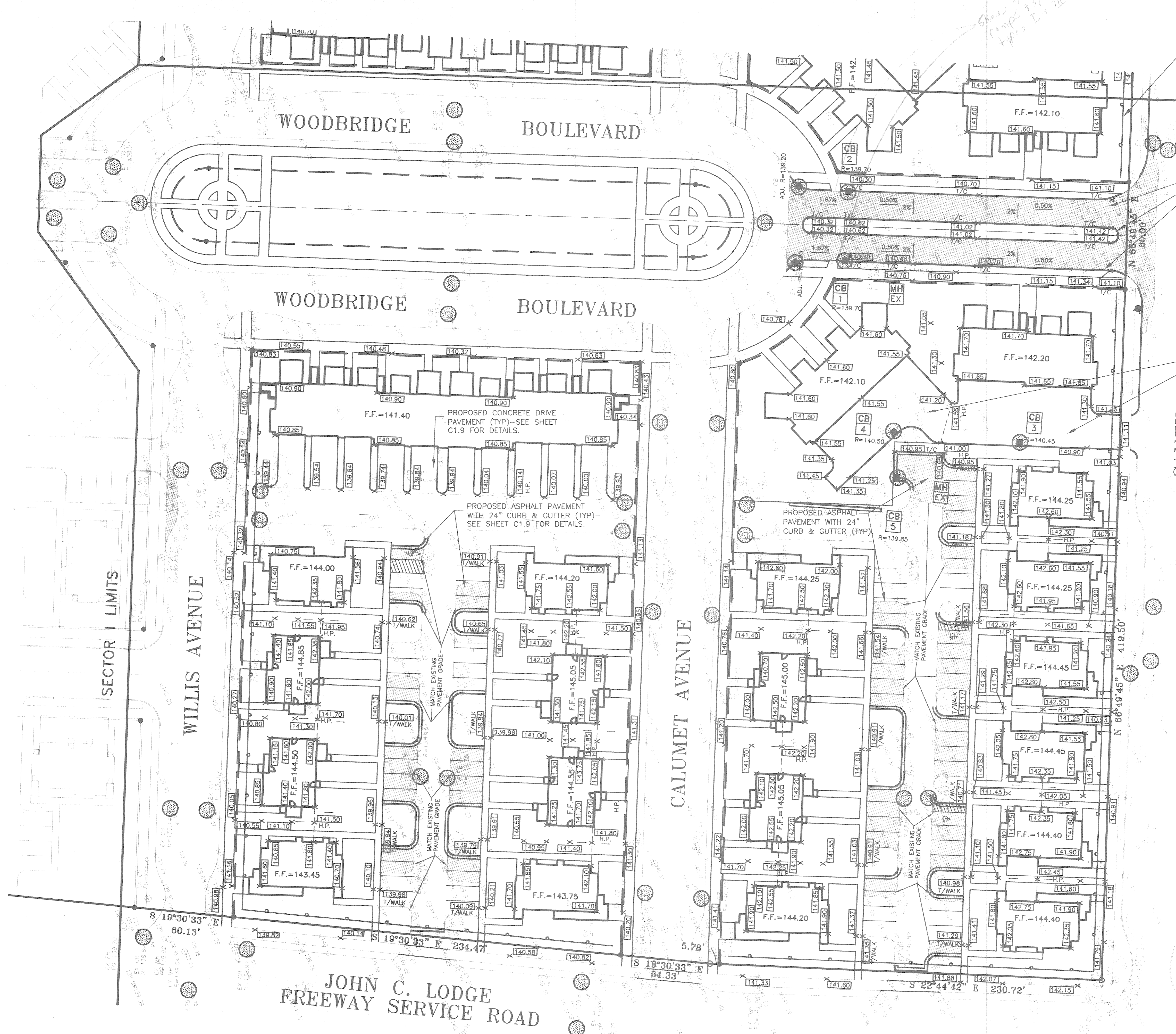
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SHEET TITLE:
GEOMETRIC PLAN
WOODBRIDGE ESTATES
SECTOR I-WEST
DETROIT, WAYNE COUNTY, MICHIGAN

DATE:	6/07/01
SCALE:	1"=30'
SHEET:	C1.4
JOB:	15615.02D



PROPOSED SEDIMENT CONTROL FENCING (TYP)—SEE SHEET C1.9 FOR DETAILS.

PROPOSED TEMPORARY INLET SEDIMENT FILTER (TYP)—SEE SHEET C1.9 FOR DETAILS.

MATCH LINE
SEE SHEET C1.6

PROPOSED 9" CONCRETE PAVEMENT WITH TYPE III CURB—INTEGRAL—SEE SHEET C1.9 FOR DETAILS.

PROPOSED CONCRETE DRIVE PAVEMENT WITH 6" STRAIGHT CURB (TYP)—SEE SHEET C1.9 FOR DETAILS.

- ### PAVING & GRADING NOTES
1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATION OF THE CITY OF DETROIT, AND ANY OTHER AGENCY HAVING JURISDICTION.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AND SHALL PROVIDE ALL NECESSARY MATERIAL AND EQUIPMENT TO KEEP DUST IN CHECK AT ALL TIMES. THE CONTRACTOR SHALL RESPOND IMMEDIATELY TO ANY AND ALL COMPLAINTS. DUST CONTROL SHALL BE INCIDENTAL TO THE PROJECT.
 3. SLOPE SMOOTHLY BETWEEN INDICATED ELEVATIONS SO THAT ALL GRADED AREAS DRAIN TO POSITIVE OUTLETS.
 4. THE CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH ARE A RESULT OF CONSTRUCTION ACTIVITIES.
 5. RE-ESTABLISH VEGETATION ON ALL DISTURBED AREAS BY MEANS OF SEED AND MULCH.
 6. A 1% MINIMUM SLOPE SHALL BE PROVIDED ON ALL PAVEMENT SURFACES.
 7. ALL PROPOSED GRADES ARE GUTTER GRADES UNLESS OTHERWISE NOTED.
 8. ALL ELEVATIONS ON THESE PLANS ARE ON THE CITY OF DETROIT VERTICAL CONTROL DATUM.
 9. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER SPRINKLER HEADS, PIPING, LIGHTING AND BURIED ELECTRICAL CABLE, ETC. THAT MAY OR MAY NOT BE INDICATED ON THESE PLANS. THE CONTRACTOR SHALL REPLACE AND/OR RESTORE ALL COMPONENTS OF SUCH SYSTEMS. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, MINIMUM STANDARD REQUIREMENTS, OR AS SPECIFIED HEREIN; WHICHEVER IS MORE STRINGENT.
 10. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PAVEMENT, EXISTING OR PROPOSED, SHALL BE BACKFILLED AND COMPACTED WITH SAND (CLASS II MDOT - MINIMUM).
 11. THE COST OF ALL TREE, STUMP, FOUNDATION AND/OR STRUCTURE REMOVAL AND DISPOSAL NOT INCLUDED IN THE PROPOSAL SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE UNIT PRICE BID FOR WATER MAIN, SANITARY SEWER, STORM SEWER, PAVING AND FOUNDATION WORK.
 12. ALL TRENCHES ACROSS ROADWAYS, DRIVEWAYS, SIDEWALKS AND PARKING LOTS SHALL BE COMPACTED TO 95% PROCTOR (MINIMUM).
 13. A MINIMUM VERTICAL CLEARANCE OF 18 INCHES IS REQUIRED AT UTILITY CROSSINGS THIS SHOULD BE MEASURED FROM THE OUTSIDE OF PIPE TO THE OUTSIDE OF PIPE.
 14. POSITIVE PROVISIONS SHALL BE MADE TO ENSURE THAT ALL UTILITY TRENCHES ARE FREE DRAINING DURING ALL PHASES OF CONSTRUCTION.
 15. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED TO MAKE THE EXISTING TERRAIN CONFORM TO THE PROPOSED GRADES AND ELEVATIONS SHOWN ON THESE PLANS, WHICH INCLUDES, BUT IS NOT LIMITED TO:
 - A. REMOVAL OF ALL TOPSOIL, MUCK, MARL, STUMPS AND OTHER UNACCEPTABLE MATERIAL FROM THE PAVEMENT AREAS AND THEIR REPLACEMENT. IF NECESSARY, WITH APPROVED MATERIAL APPROVED BY THE ENGINEER OR THE OWNERS SOIL CONSULTANT.
 - B. PREPARATION OF THE SUBBASE TO WITHIN 0.1 FEET OF THE FINAL SUBBASE ELEVATIONS, INCLUDING PLACEMENT AND COMPACTION OF ANY REQUIRED FILL MATERIALS.
 16. ANY FILL REQUIRED WITHIN THE PAVEMENT AREAS SHALL BE PLACED IN THE LIFTS NOT TO EXCEED 9" WHEN COMPACTED. EACH LIFT SHALL THEN BE COMPACTED TO AT LEAST 95 PERCENT OF ITS MAXIMUM DENSITY, AS DETERMINED BY THE MODIFIED PROCTOR METHOD (A.S.T.M. D15557-70D).
 17. IF PORTIONS OF THE SUBBASE APPEAR TO BE UNSUITABLE FOR PAVEMENT OR BUILDING PAD, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND M.D.O.T. AND, UPON THEIR WRITTEN APPROVAL, SHALL REMOVE THE UNSUITABLE MATERIAL AND REPLACE IT WITH MATERIAL APPROVED BY THE ENGINEER OR OWNERS SOIL CONSULTANT—COMPACTED IN PLACE TO THE PROPOSED SUBGRADE ELEVATION. THIS UNDERCUT WORK SHALL BE PAID FOR AT A UNIT PRICE TO BE AGREED UPON PRIOR TO EXCAVATION. THIS UNIT PRICE WILL INCLUDE THE DISPOSAL OF UNSUITABLE MATERIALS AS DIRECTED BY THE DEVELOPER OR THEIR CONSULTANT.
 18. REMOVAL OF ALL EXISTING STRUCTURES, WOODEN STANDS, RUBBLE PILES, HOUSES, FOUNDATIONS, WELL, SEPTIC FIELDS, BELOW AND ABOVE GROUND TANKS, AND SILOS ARE INCIDENTAL TO THE GRADING CONTRACT AND SHALL BE REMOVED IN THEIR ENTIRETY AND DISPOSED OF OFFSITE.

LEGEND

	NEW CONCRETE PAVEMENT
	NEW ASPHALT PAVEMENT
	PROPOSED GRADE
	TEMPORARY INLET SEDIMENT FILTER
	SEDIMENT CONTROL FENCING

SECTOR I LIMITS

WILLIS AVENUE

JOHN C. LODGE
FREEWAY SERVICE ROAD

CALUMET AVENUE

CANFIELD AVENUE

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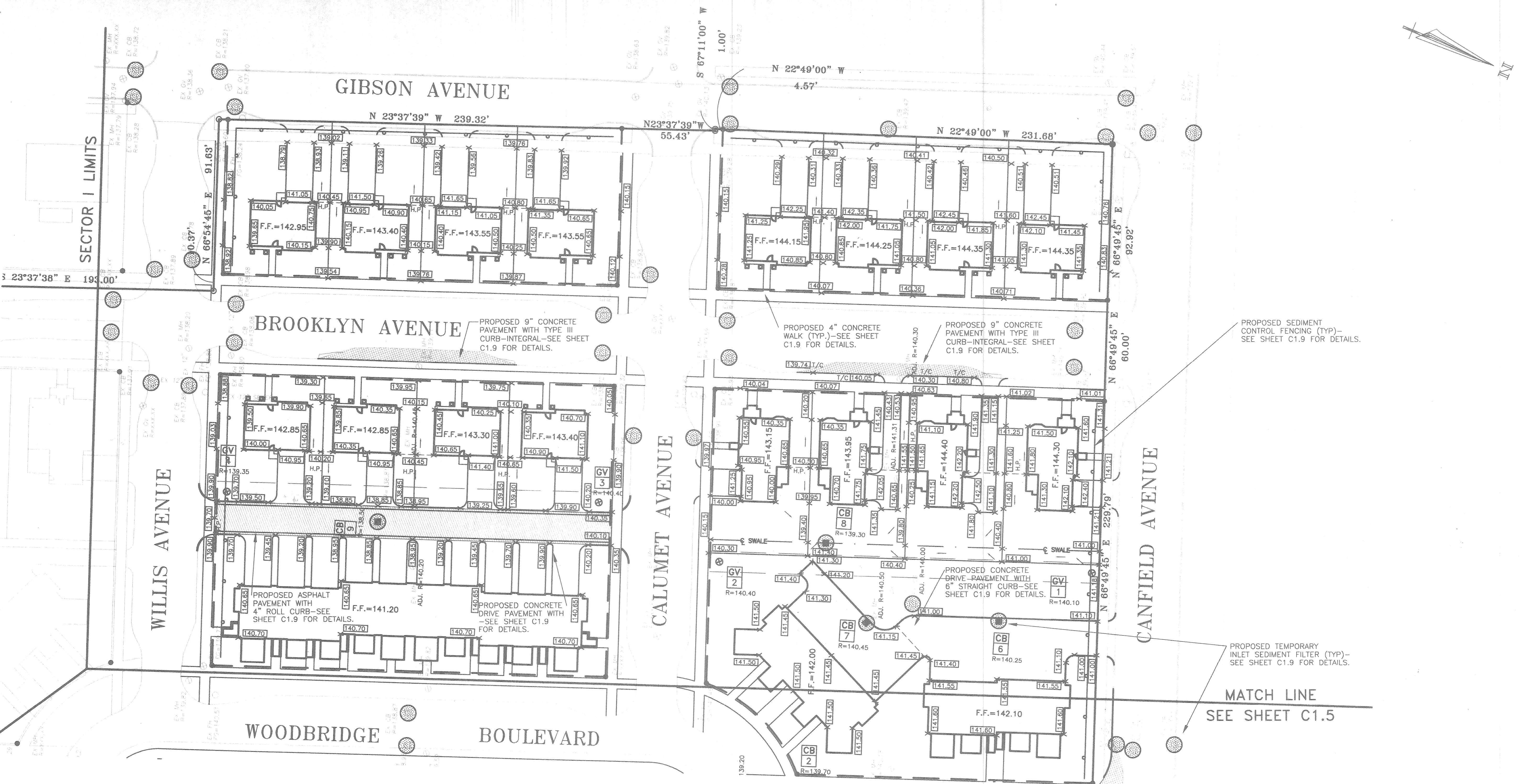
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SHEET TITLE:
**GRADING & SOIL
EROSION PLAN**
WOODBRIDGE ESTATES
SECTOR I—EAST
DETROIT, WAYNE COUNTY, MICHIGAN

DATE:	6/07/01
SCALE:	1"=30'
SHEET:	C1.5
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EROSION CONTROL STANDARDS

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF THE CITY OF DETROIT AND WAYNE COUNTY.
2. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR FOR EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
3. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, PONDS, AND WETLANDS.
4. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED AND AS DIRECTED ON THESE PLANS. THE CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER CHANGES HAVE BEEN ACCOMPLISHED.
5. STAGING THE WORK WILL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
6. SOIL EROSION CONTROL PRACTICES WILL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF DIRT OFF THE SITE.
7. THE CONTRACTOR SHALL PRESERVE NATURAL VEGETATION AS MUCH AS POSSIBLE.
8. VEGETATION STABILIZATION OF ALL DISTURBED AREAS SHALL BE ESTABLISHED WITHIN 15 DAYS OF COMPLETION OF FINAL GRADING.

LEGEND

- NEW CONCRETE PAVEMENT
- NEW ASPHALT PAVEMENT
- PROPOSED GRADE
- TEMPORARY INLET SEDIMENT FILTER
- SEDIMENT CONTROL FENCING

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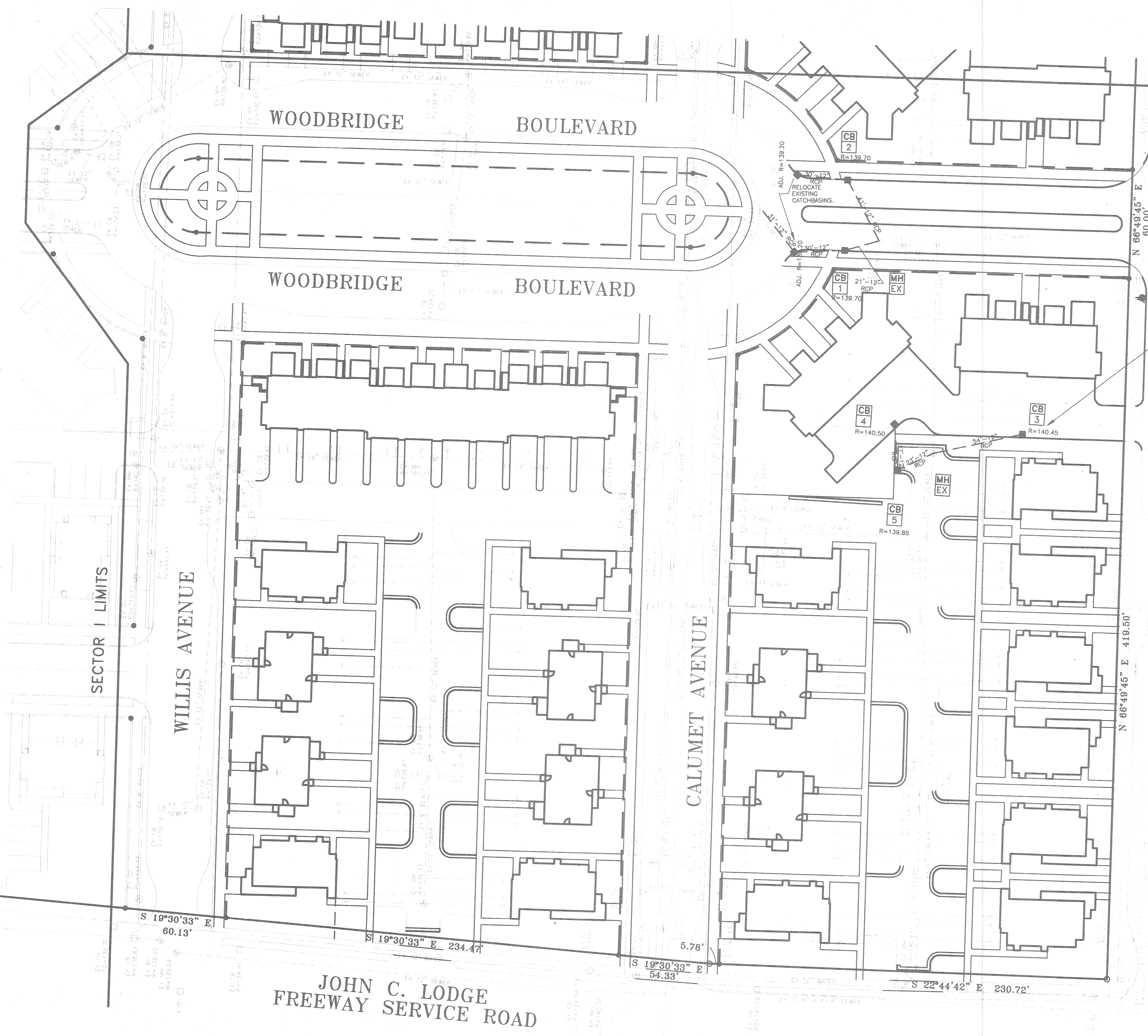
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SHEET TITLE:
GRADING & SOIL EROSION PLAN
 WOODBRIDGE ESTATES
 SECTOR I-WEST
 DETROIT, WAYNE COUNTY, MICHIGAN

DATE:	6/07/01
SCALE:	1"=30'
SHEET:	C1.6
JOB:	15615.02D



MATCH LINE
SEE SHEET C1.8

CANFIELD AVENUE

UTILITY NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARDS, SPECIFICATIONS, AND GENERAL CONDITIONS OF THE CITY OF DETROIT.
2. UTILITY INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FROM UTILITY OWNERS AND THEREFORE MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY AND OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES WHICH MIGHT HAVE AN IMPACT ON THIS PROJECT, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES (SHOWN OR NOT SHOWN ON THE PLANS.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AT PROPOSED CONNECTIONS AND/OR CROSSINGS, AND TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES TO THESE PLANS.
3. 72 HOURS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS DIG AT (800) 482-7171 FOR THE LOCATION OF UNDERGROUND GAS AND CABLE FACILITIES, AND SHALL ALSO NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE VICINITY OF THE WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND/OR OBTAIN INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES WHICH MIGHT AFFECT THIS JOB.
4. ALL REQUIRED PERMITS, BONDS AND INSURANCE, ETC., SHALL BE PROVIDED BY AND PAID FOR BY THE CONTRACTOR.
5. ALL ELEVATIONS ON THESE PLANS ARE ON THE CITY OF DETROIT VERTICAL CONTROL DATUM.
6. ALL CONSTRUCTION SHALL HAVE INSPECTION PROVIDED BY THE CITY OF DETROIT'S ENGINEER.
7. THE CONTRACTOR SHALL CONTACT THE CITY OF DETROIT 48 HOURS BEFORE THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL, AND SHALL PROVIDE ALL NECESSARY MATERIAL AND EQUIPMENT TO KEEP DUST IN CHECK AT ALL TIMES. THE CONTRACTOR SHALL RESPOND IMMEDIATELY TO ANY AND ALL COMPLAINTS. DUST CONTROL SHALL BE INCIDENTAL TO THE PROJECT.
9. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER SPRINKLER HEADS, PIPING, LIGHTING AND BURIED ELECTRICAL CABLE, MAILBOXES, FENCES, SIGNS, ETC. THAT MAY OR MAY NOT BE INDICATED ON THESE PLANS. THE CONTRACTOR SHALL REPLACE AND/OR RESTORE ALL COMPONENTS OF SUCH SYSTEMS. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, MINIMUM STANDARD REQUIREMENTS, OR AS SPECIFIED HEREIN, WHICHEVER IS MORE STRINGENT.
10. ROADWAY, DRIVEWAY, AND PARKING AREA FINAL RESTORATION SHALL BE DONE WITH SURFACE AND BASE MATERIALS MATCHING EXISTING MATERIALS IN QUALITY AND THICKNESS, OR PER MINIMUM REQUIREMENTS, WHICHEVER IS MORE STRINGENT.
11. UTILITY POLES SHOWN ON THESE DRAWINGS ARE INTENDED TO SHOW ONLY THE LOCATION AND DIRECTION OF OVERHEAD LINES. THE COST FOR SUPPORTING AND RELOCATING POLES SHALL BE INCIDENTAL TO THE PROJECT.
12. A MINIMUM VERTICAL CLEARANCE OF 18 INCHES IS REQUIRED AT ALL UTILITY CROSSINGS, MEASURED FROM THE OUTSIDE OF PIPE TO THE OUTSIDE OF PIPE.
13. ALL TRENCHES WITHIN A ONE ON ONE SLOPE OF PAVEMENT SHALL BE BACKFILLED WITH SAND AND MECHANICALLY COMPACTED IN NOT MORE THAN 9" LAYERS TO 95% MAXIMUM UNIT WEIGHTS.
14. NO FROZEN MATERIAL SHALL BE PERMITTED AS BACKFILL MATERIAL UNDER ANY ROADWAY, DRIVEWAY OR PARKING AREA.
15. REESTABLISH VEGETATION ON ALL DISTURBED AREAS BY MEANS OF SEED AND MULCH.

RELOCATE EXISTING HYDRANT.

PROPOSED CATCH BASIN (TYP)-SEE STANDARD SEWER DETAILS.

SECTOR I LIMITS

WILLIS AVENUE

CALUMET AVENUE

JOHN C. LODGE
FREEWAY SERVICE ROAD

DATE:	ISSUE:
1/28/01	PRELIMINARY CITY REVIEW
2/11/01	CITY REVIEW
6/07/01	CITY REVIEW
7/10/01	REVISED PER CITY COMMENTS



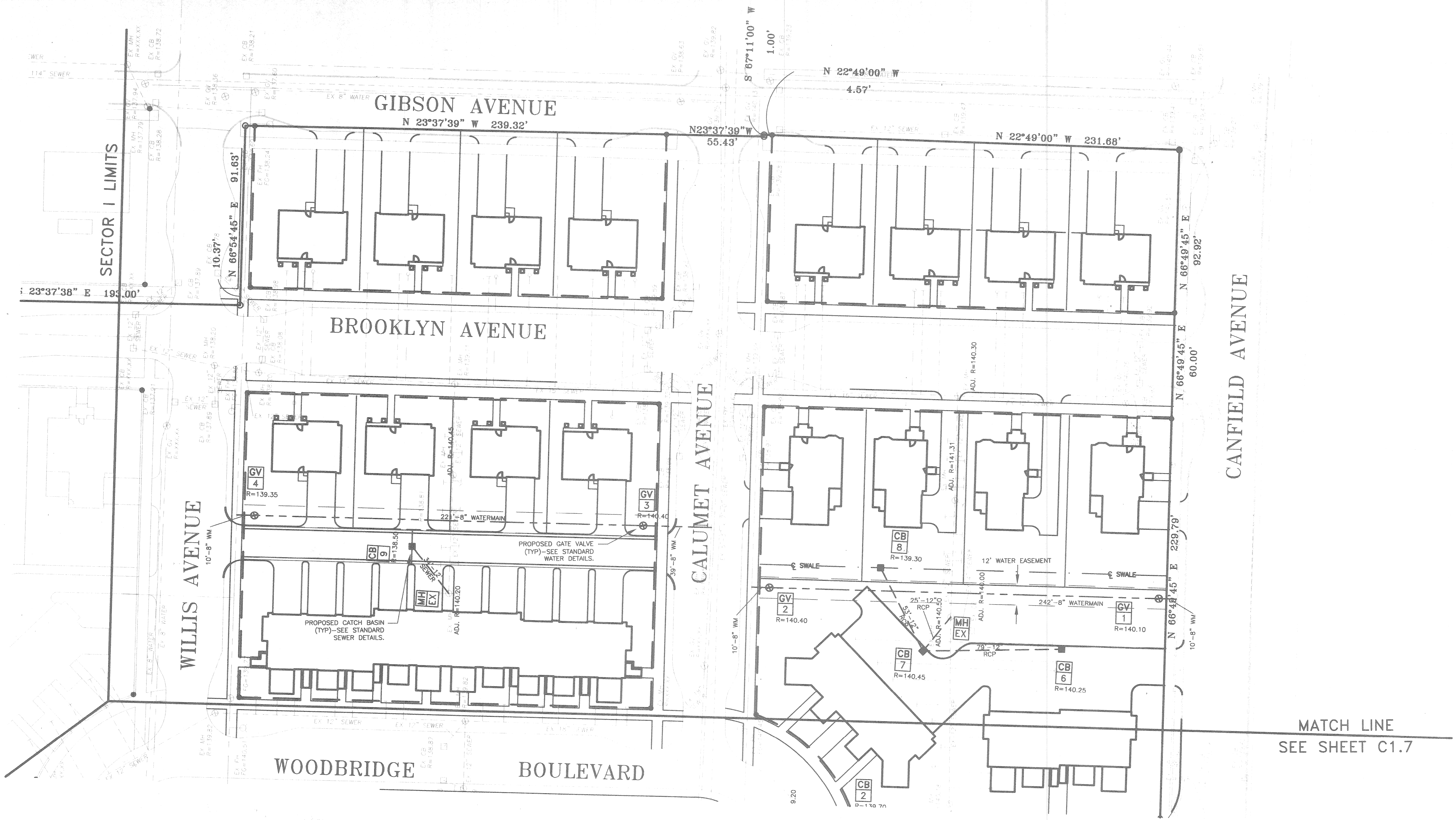
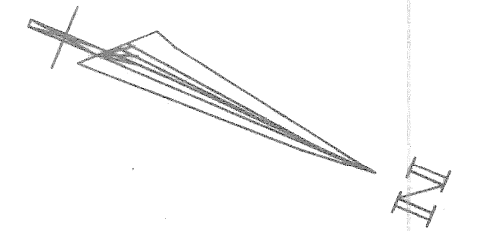
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PROJ. MNGR:	PM
DESIGN:	JJ
DRAWN:	JJ
IND. REVIEW:	
SECTION:	XX
T-	-N.R.-
	-E.

DEVELOPER:
SCRIPPS-PARK ASSOCIATES, LLC. 350
32605 W. 12 MILE ROAD, SUITE 350
FARMINGTON HILLS, MI 48334
(248) 488-5543
(248) 568-1858 FAX

GWE
Giffels-Webster Engineers, Inc.
ENGINEERS LAND SURVEYORS PLANNERS LANDSCAPE ARCHITECTS
407 E. FORT STREET, SUITE 600 DETROIT, MI 48226
(313) 962-4442

SHEET TITLE:
UTILITY PLAN
WOODBRIDGE ESTATES
SECTOR I-EAST
DETROIT, WAYNE COUNTY, MICHIGAN

DATE:	6/07/01
SCALE:	1"=30'
SHEET:	C1.7
JOB:	15615.02D



MATCH LINE
SEE SHEET C1.7

SECTOR I LIMITS

CANFIELD AVENUE

CALUMET AVENUE

GIBSON AVENUE

BROOKLYN AVENUE

WILLIS AVENUE

WOODBIDGE BOULEVARD

DATE:	ISSUE:
3/28/01	PRELIMINARY CITY REVIEW
5/11/01	CITY REVIEW
6/07/01	CITY REVIEW
7/10/01	REVISED PER CITY COMMENTS



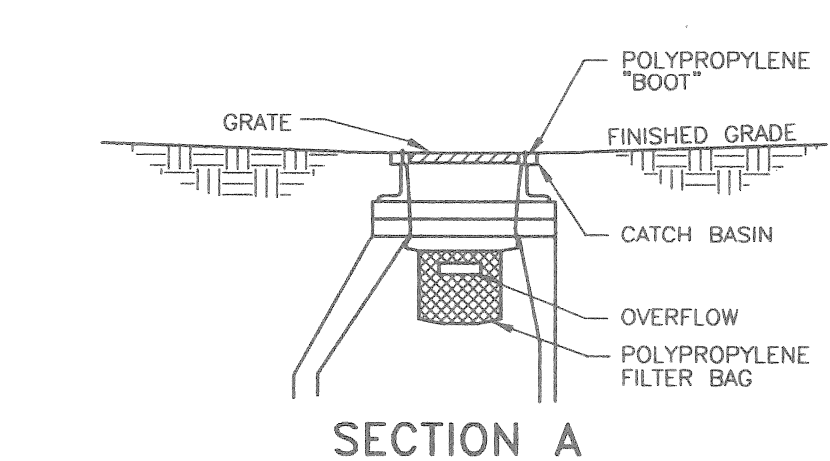
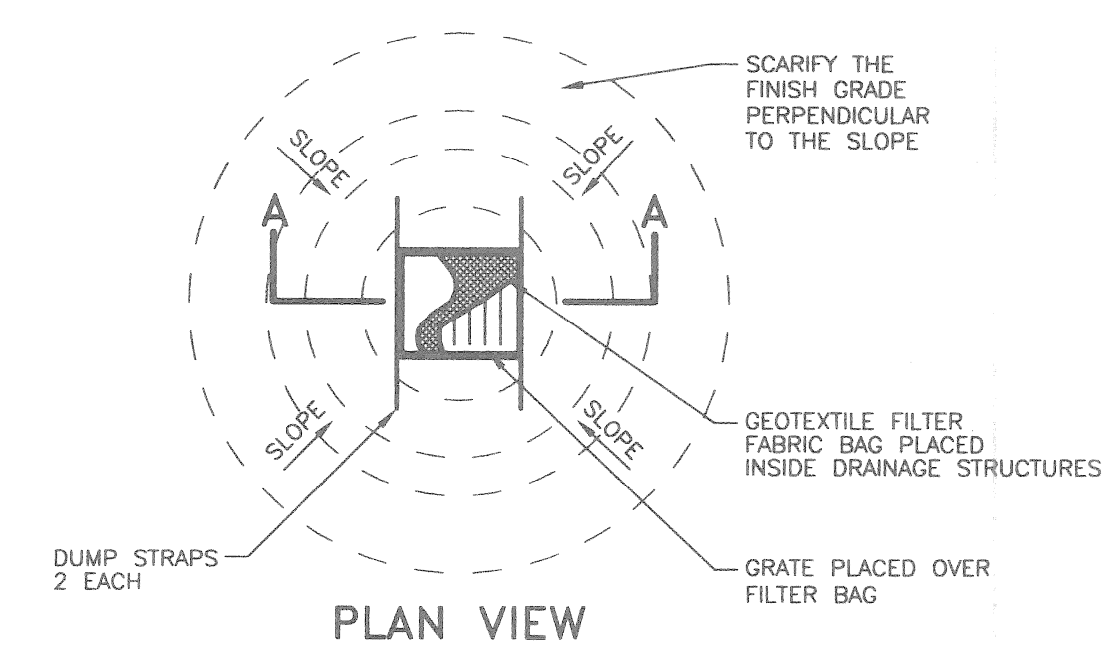
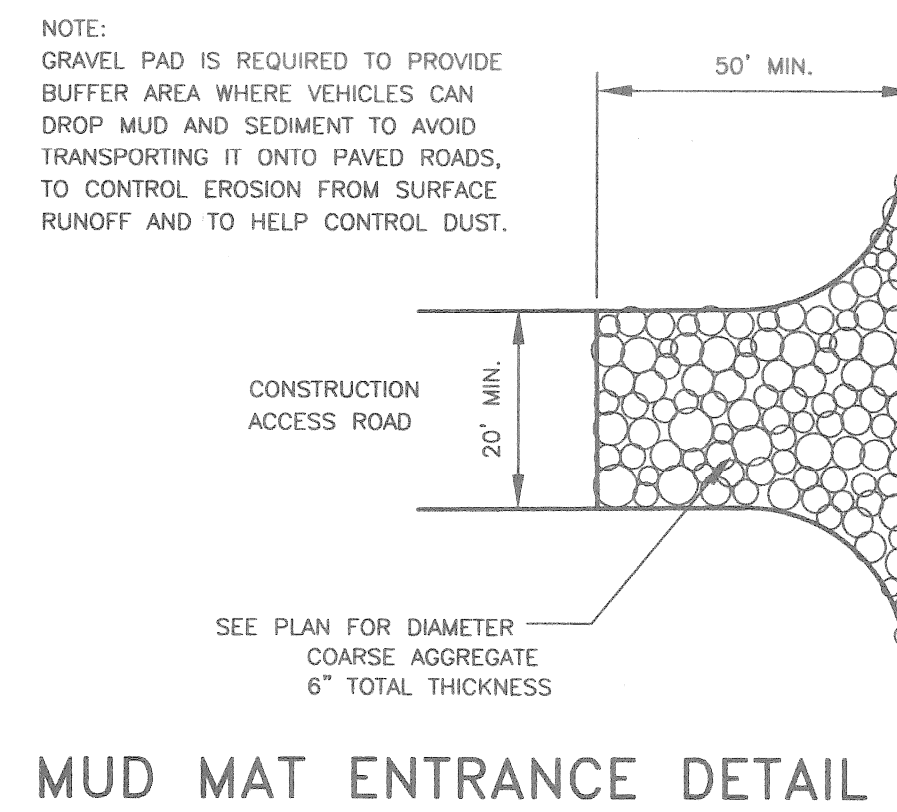
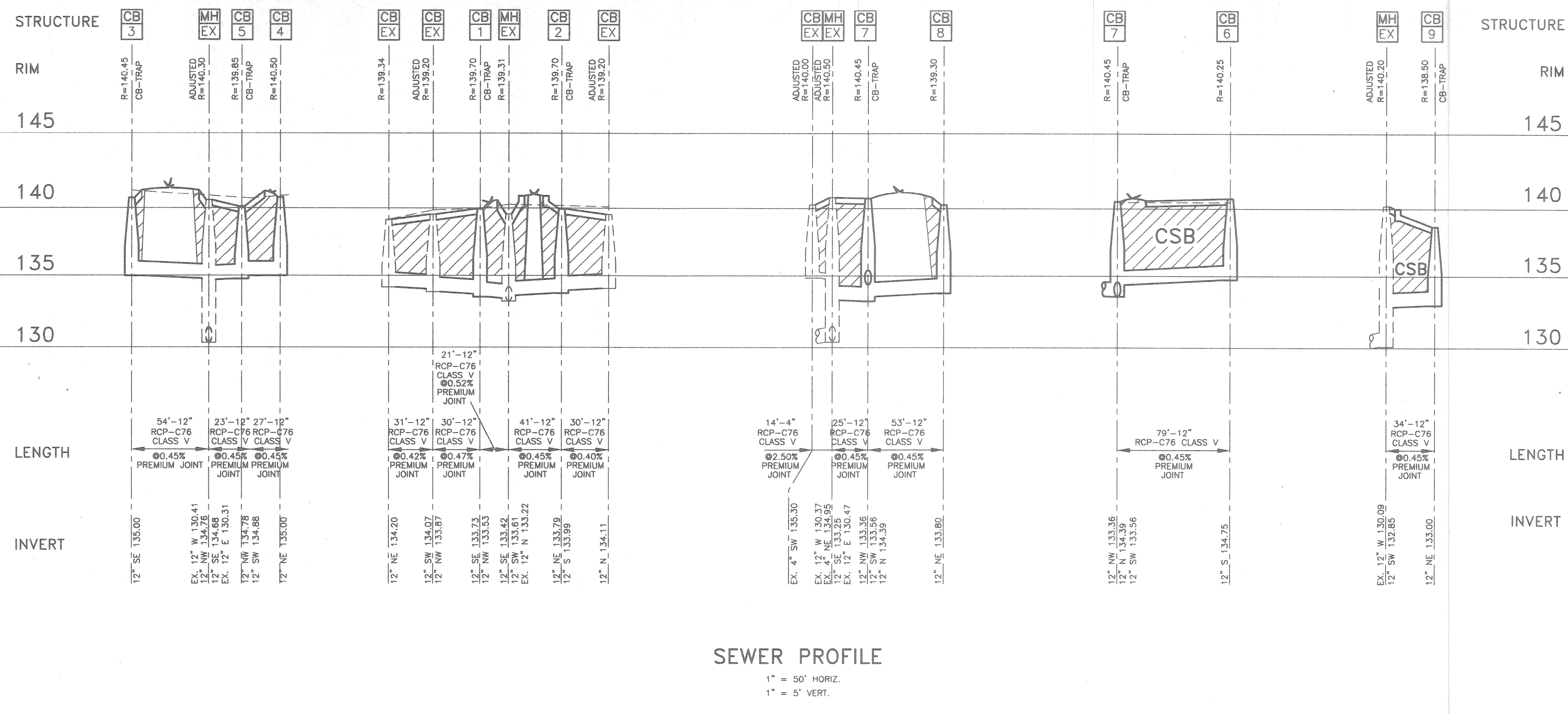
PRINCIPAL:	LL
PROJ. MNGR:	PM
DESIGN:	JJ
DRAWN:	JJ
IND. REVIEW:	
SECTION:	XX
T -	-N.R- I.E.

DEVELOPER:
SCRIPPS-PARK ASSOCIATES, LLC.
32805 W. 12 MILE ROAD, SUITE 350
FARMINGTON HILLS, MI 48334
(248) 488-5543
(248) 568-1858 FAX

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Giffels-Webster Engineers, Inc.
ENGINEERS LAND SURVEYORS PLANNERS LANDSCAPE ARCHITECTS
407 E. FORT STREET, SUITE 600 DETROIT, MI 48226
(313) 962-4442

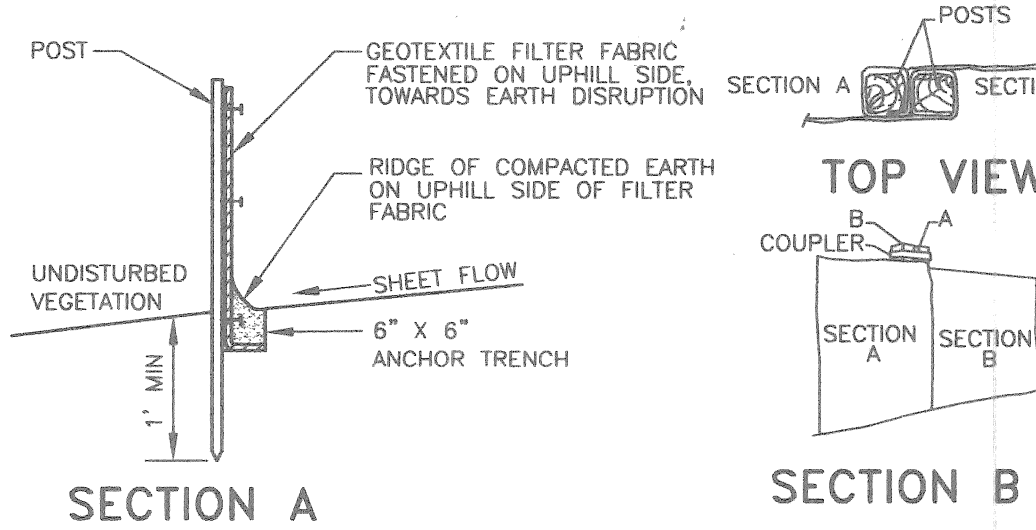
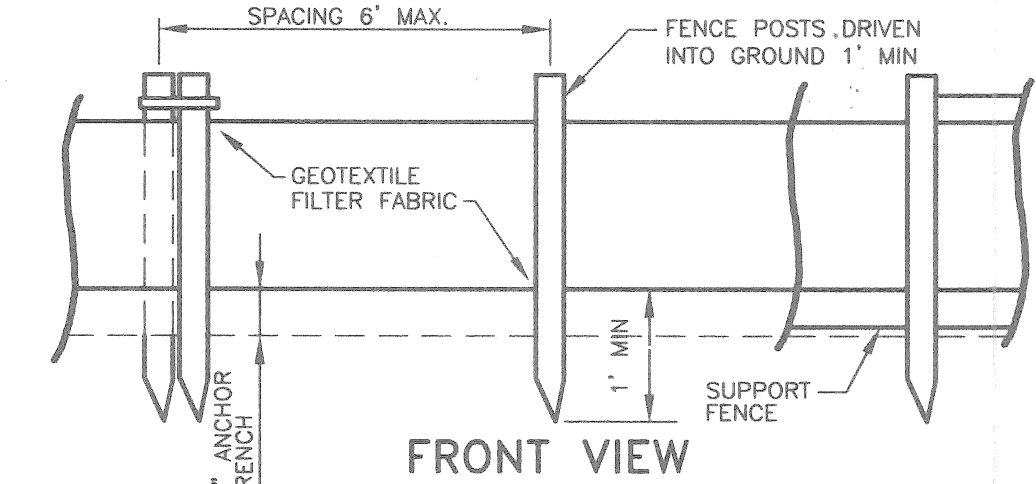
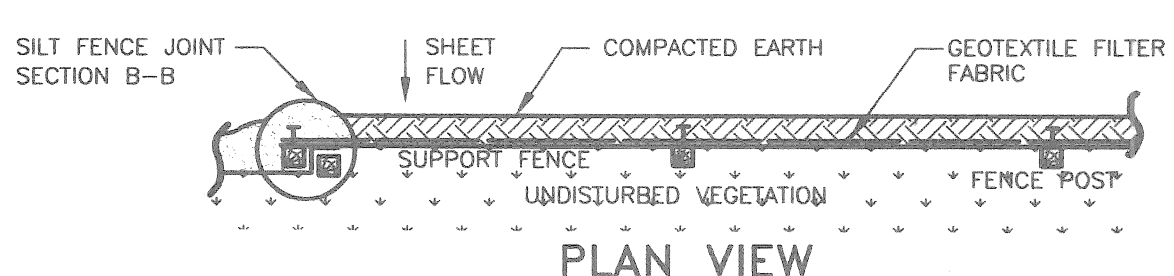
SHEET TITLE:
UTILITY PLAN
WOODBIDGE ESTATES
SECTOR I-WEST
DETROIT, WAYNE COUNTY, MICHIGAN

DATE:	6/07/01
SCALE:	1"=30'
SHEET:	C1.8
JOB:	15615.02D

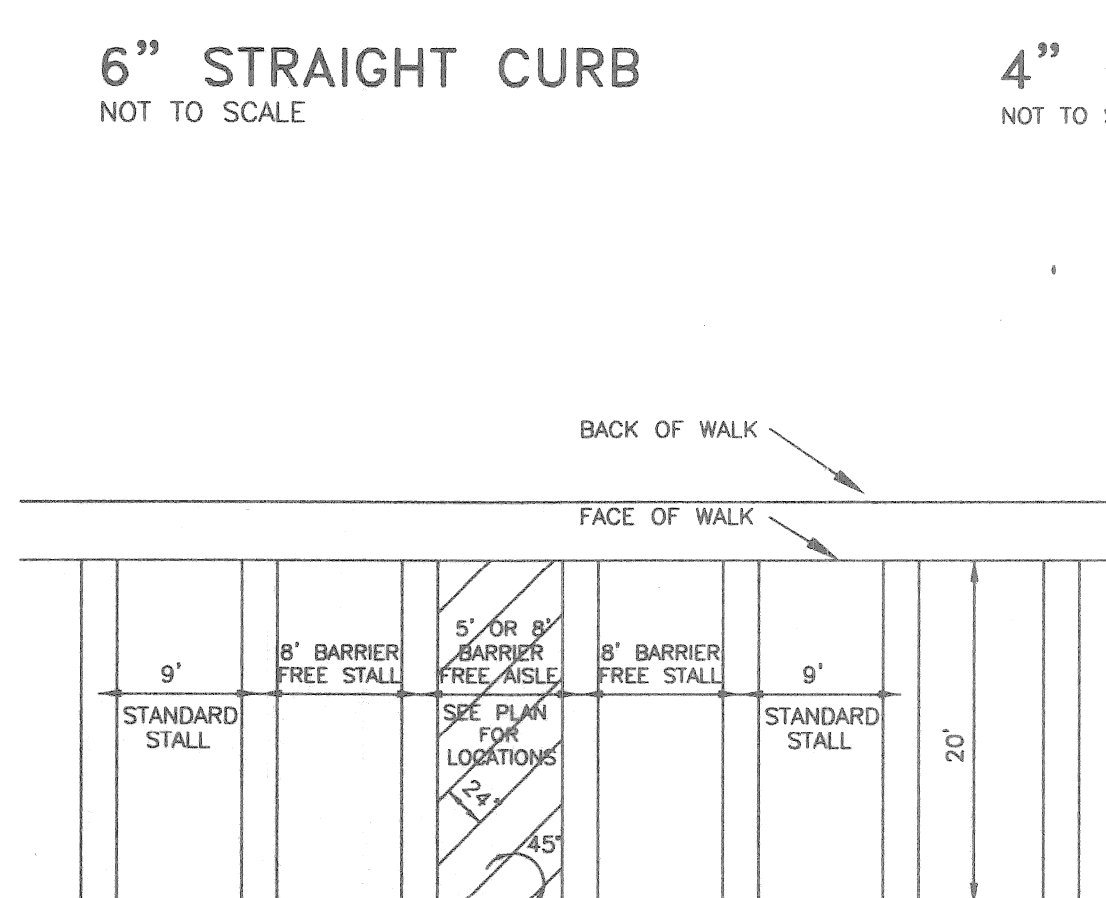
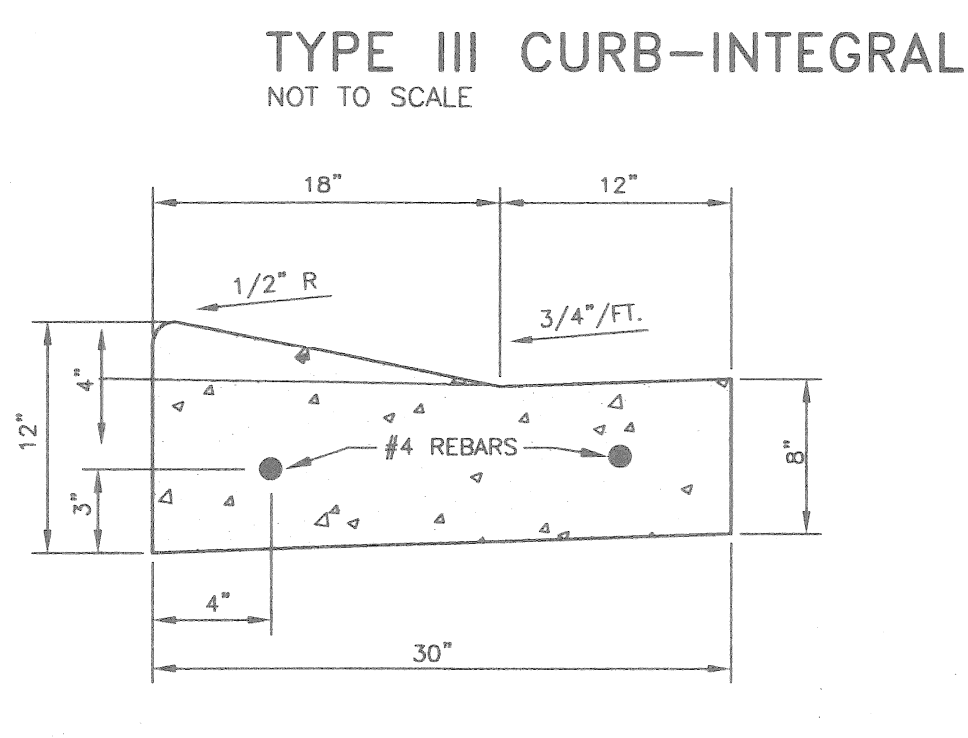
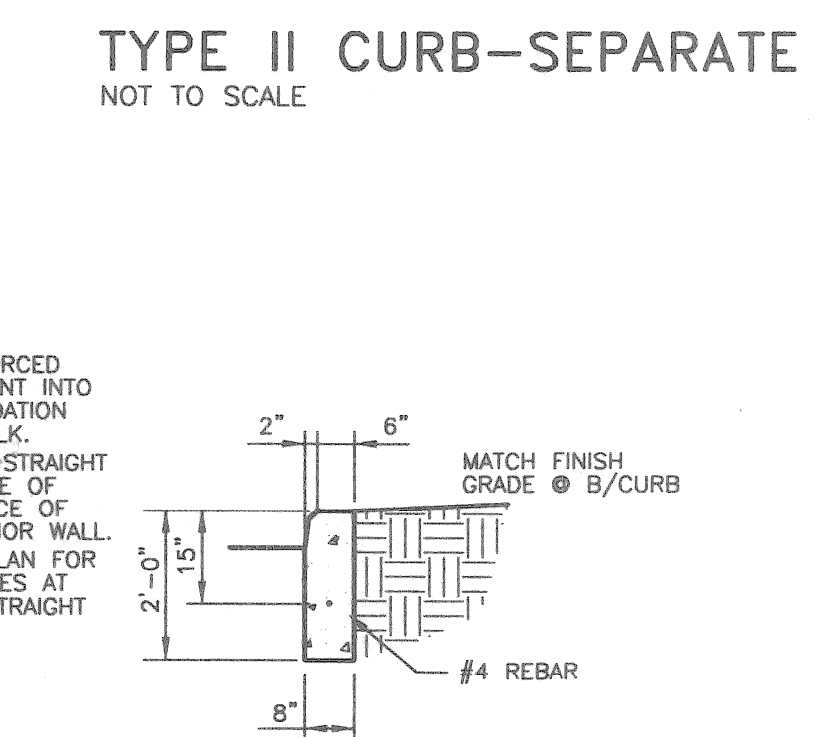
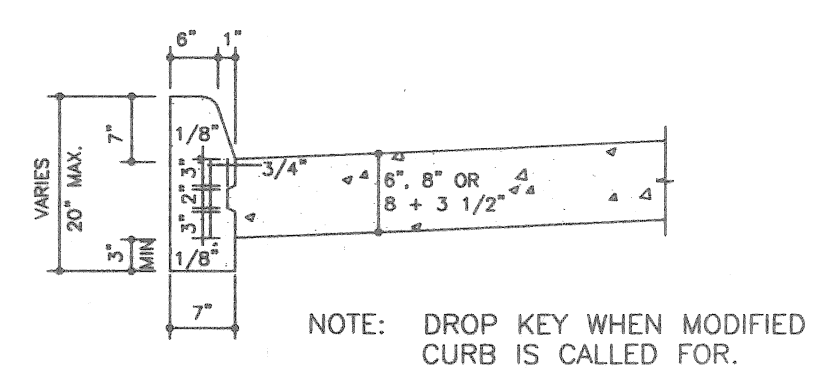
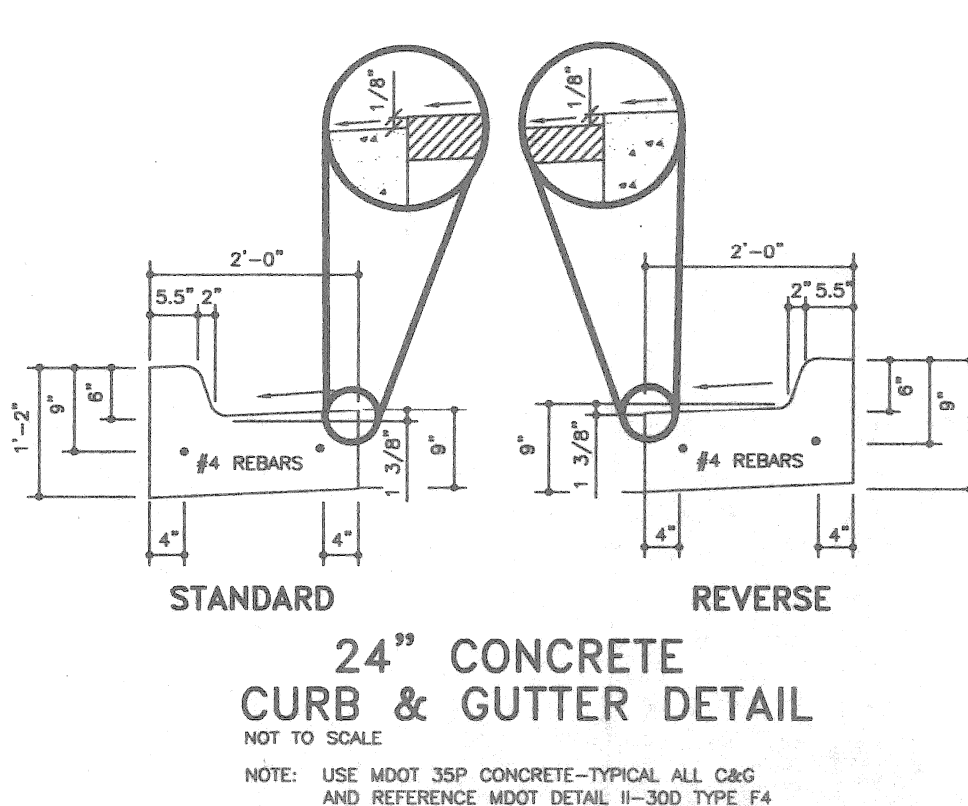
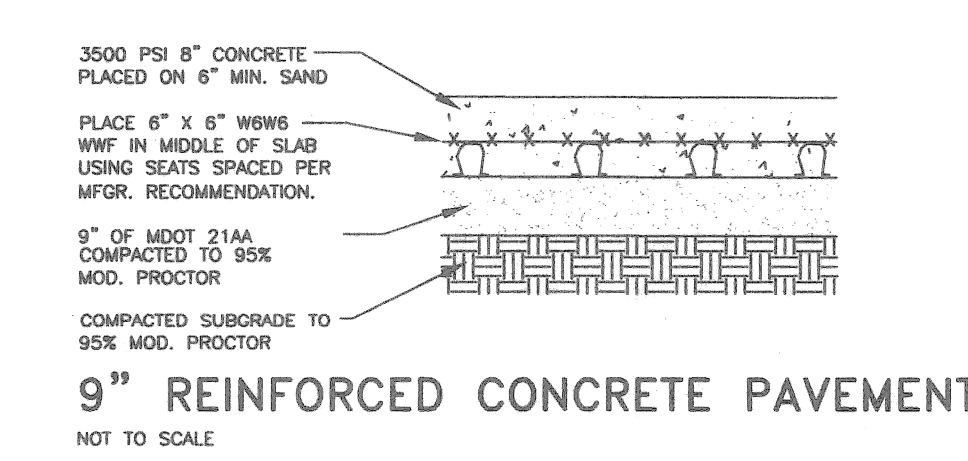
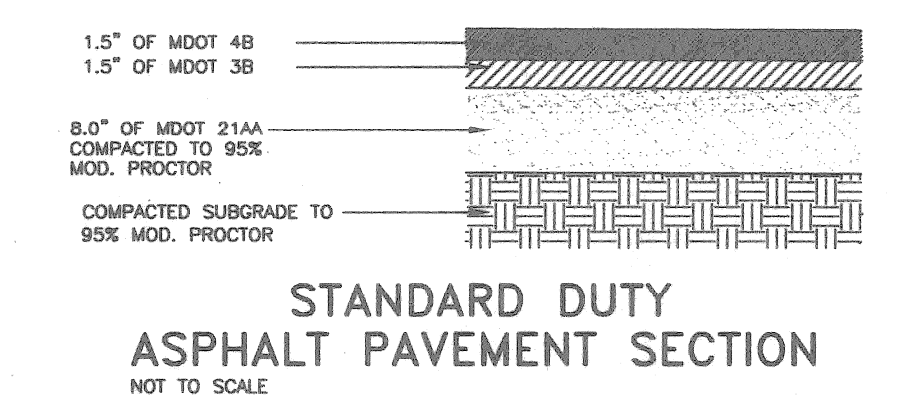


TEMPORARY INLET SEDIMENT FILTER
 NOT TO SCALE

NOTE: TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. INLET FILTER TO BE SIMILAR TO "STEAMGUARD" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (206-767-0441) OR "SILTSACK" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC., (800-448-3636). CLEAN FILTER AS NEEDED.



SEDIMENT CONTROL FENCING
 NOT TO SCALE



NOTES FOR STRIPING

- ALL STRIPING SHALL BE FOUR INCHES (4") IN WIDTH PAINTED HIGHWAY YELLOW OR BLUE AS SPECIFIED ON PLANS AND IN SUPPLEMENTAL SPECS.
- ALL STRIPING SHALL BE APPLIED IN TWO (2) COATS.
- REFER TO GENERAL PROJECT INFORMATION FOR SPECIAL STRIPING AREAS.

ISSUE:

DATE:	06/07/01	CITY REVIEW	
	07/10/01	REVISED PER CITY COMMENTS	



PRINCIPAL:	LL
PROJ. MNGR:	PM
DESIGN:	JJ
DRAWN:	HF
IND. REVIEW:	
SECTION:	T - -N.R- -E.

DEVELOPERS:

SCRIPPS-PARK ASSOCIATES, LLC
 32605 W. 12 MILE ROAD, SUITE 350
 FARMINGTON HILLS, MI 48334
 (248) 488-5543
 (248) 568-1858 FAX

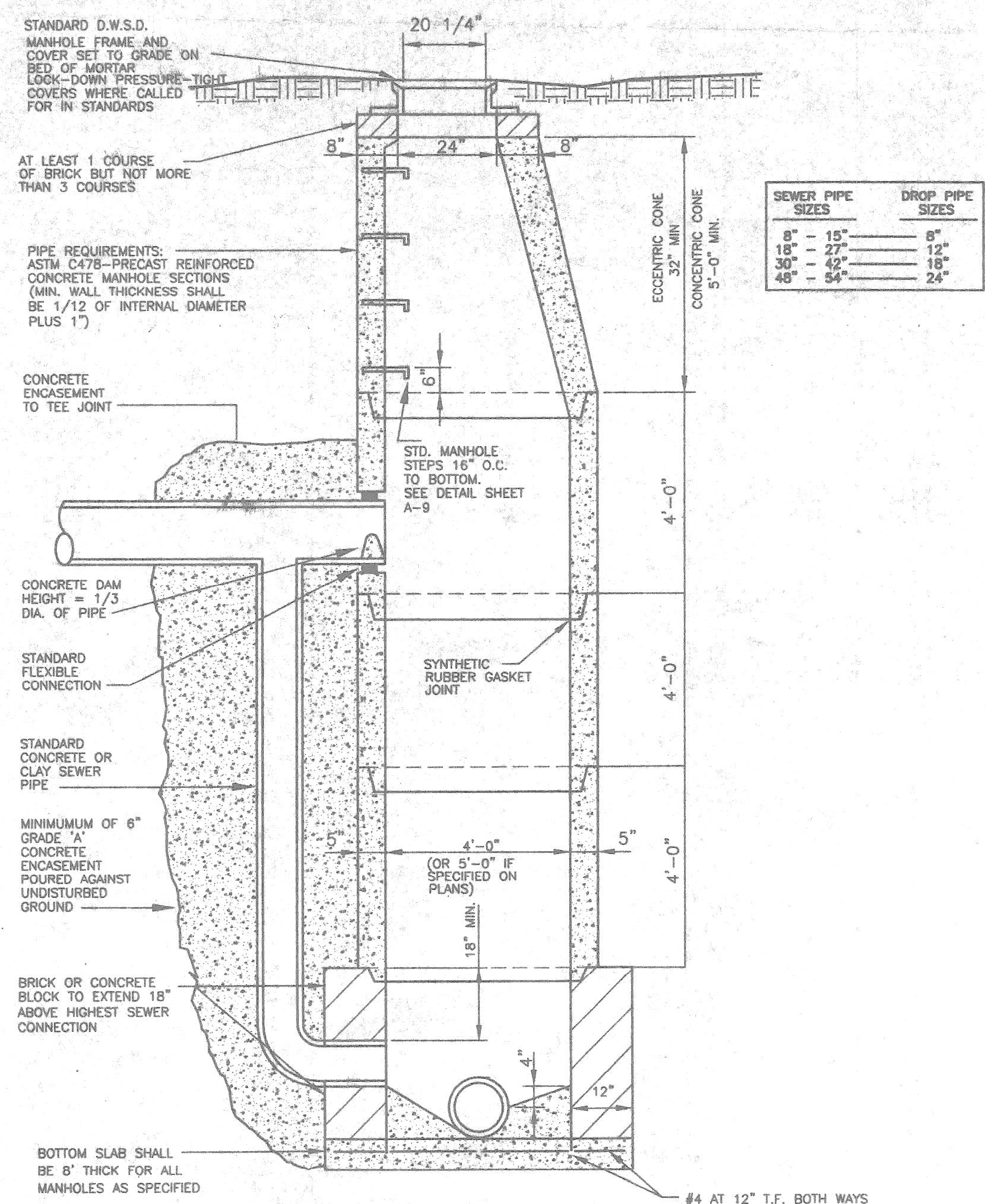
GWE

Giffels-Webster Engineers, Inc.
 ENGINEERS LAND SURVEYORS PLANNERS LANDSCAPE ARCHITECTS
 407 E. FORT STREET, SUITE 600 DETROIT, MI 48226
 (313) 962-4442

SEWER PROFILE & DETAILS

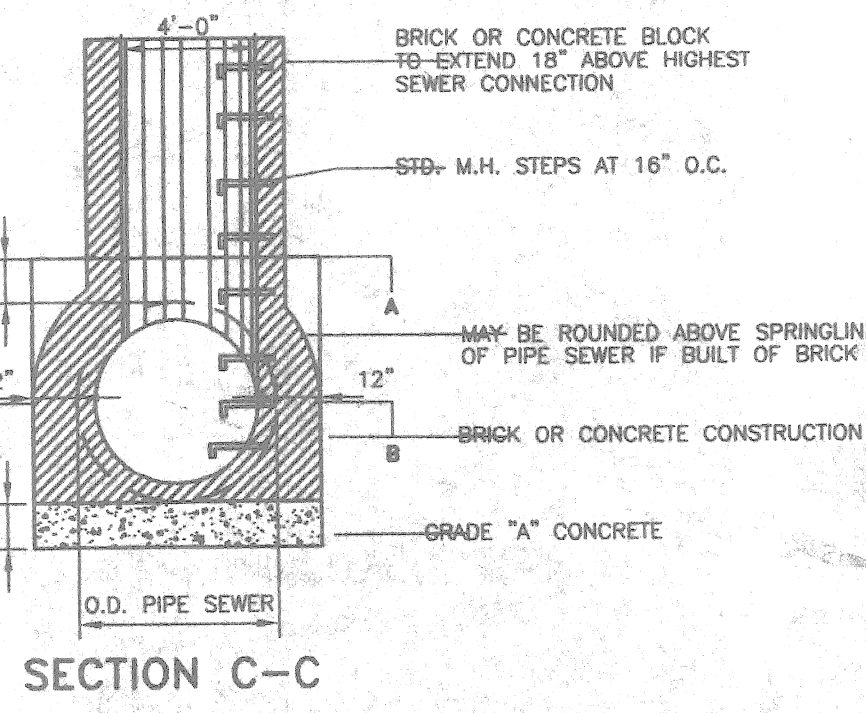
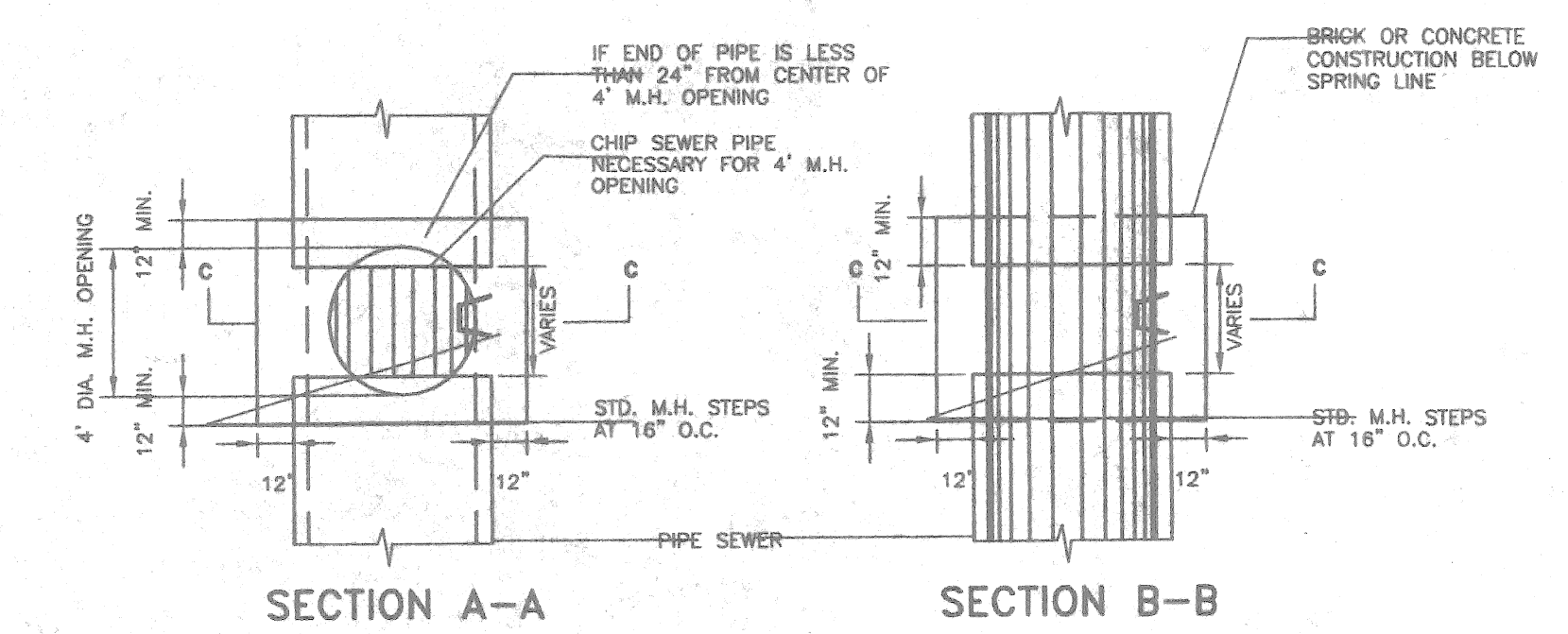
WOODBRIDGE ESTATES
 SECTOR I
 DETROIT, WAYNE COUNTY, MICHIGAN

DATE:	06/07/01
SCALE:	1"=50'
SHEET:	C1.9
JOB:	15615.02



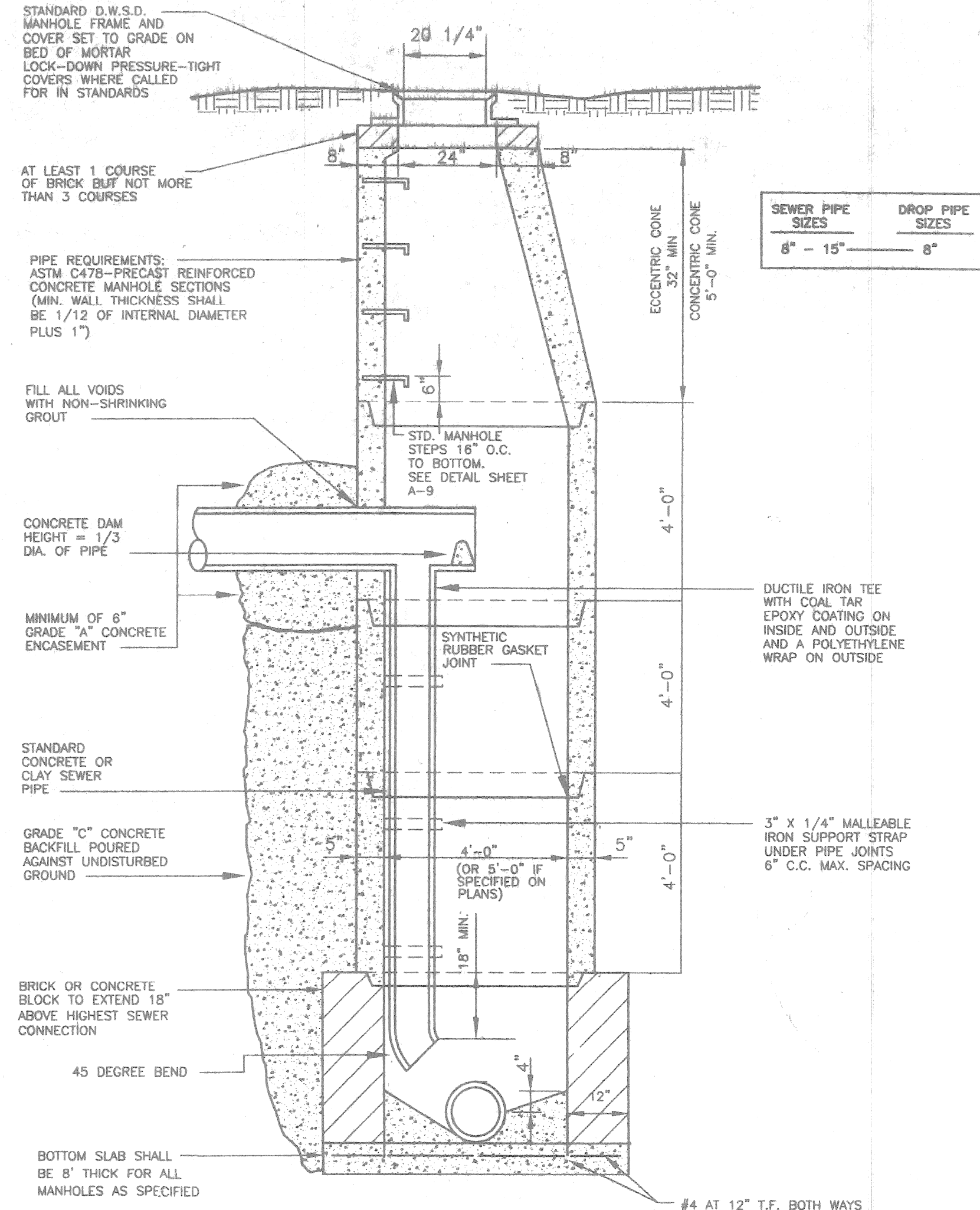
EXTERIOR DROP MANHOLE CONNECTION WITH TEE

NOTE: PIPE OPENING IN PRECAST RISER SECTIONS SHALL BE FORMED DURING CASTING OPERATION. THE OPENINGS SHALL BE FORMED OR EQUIPPED FOR A FLEXIBLE JOINT CONNECTION SUCH AS "RES-SEAL" OR "PRESS WEDGE" OR APPROVED EQUAL.



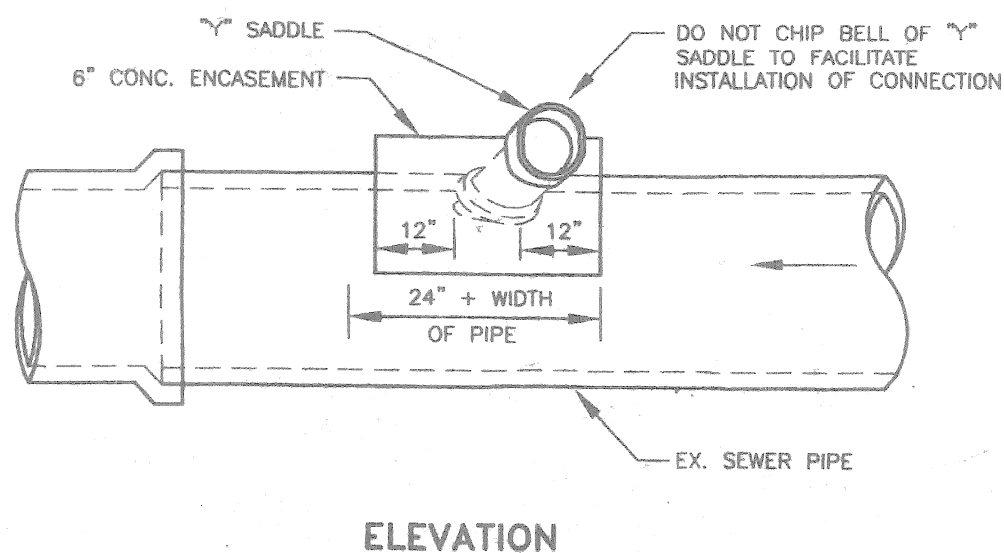
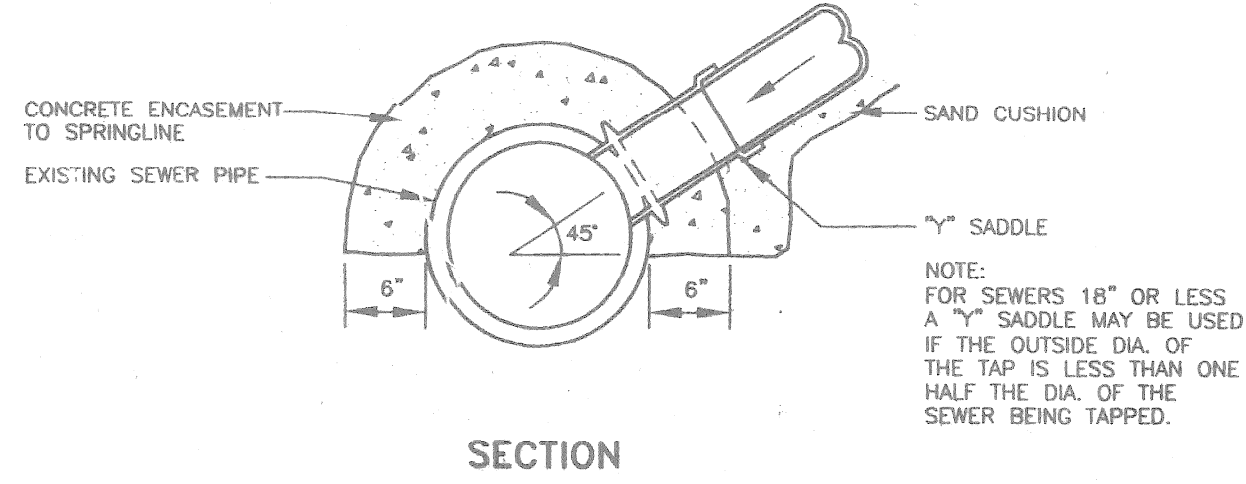
MANHOLE ON JACKED PIPE

NOT TO SCALE



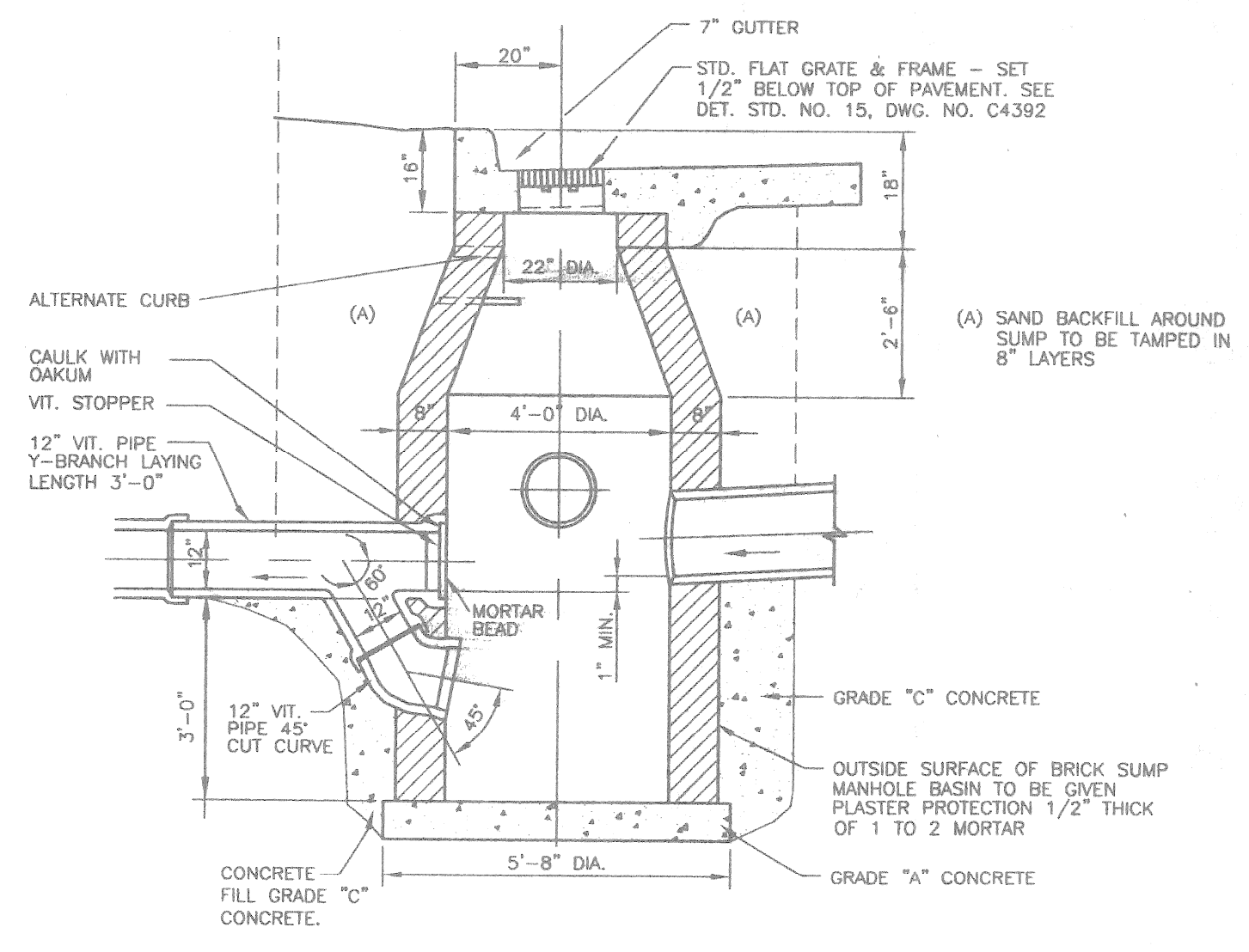
EXTERIOR DROP MANHOLE CONNECTION WITH TEE

NOT TO SCALE



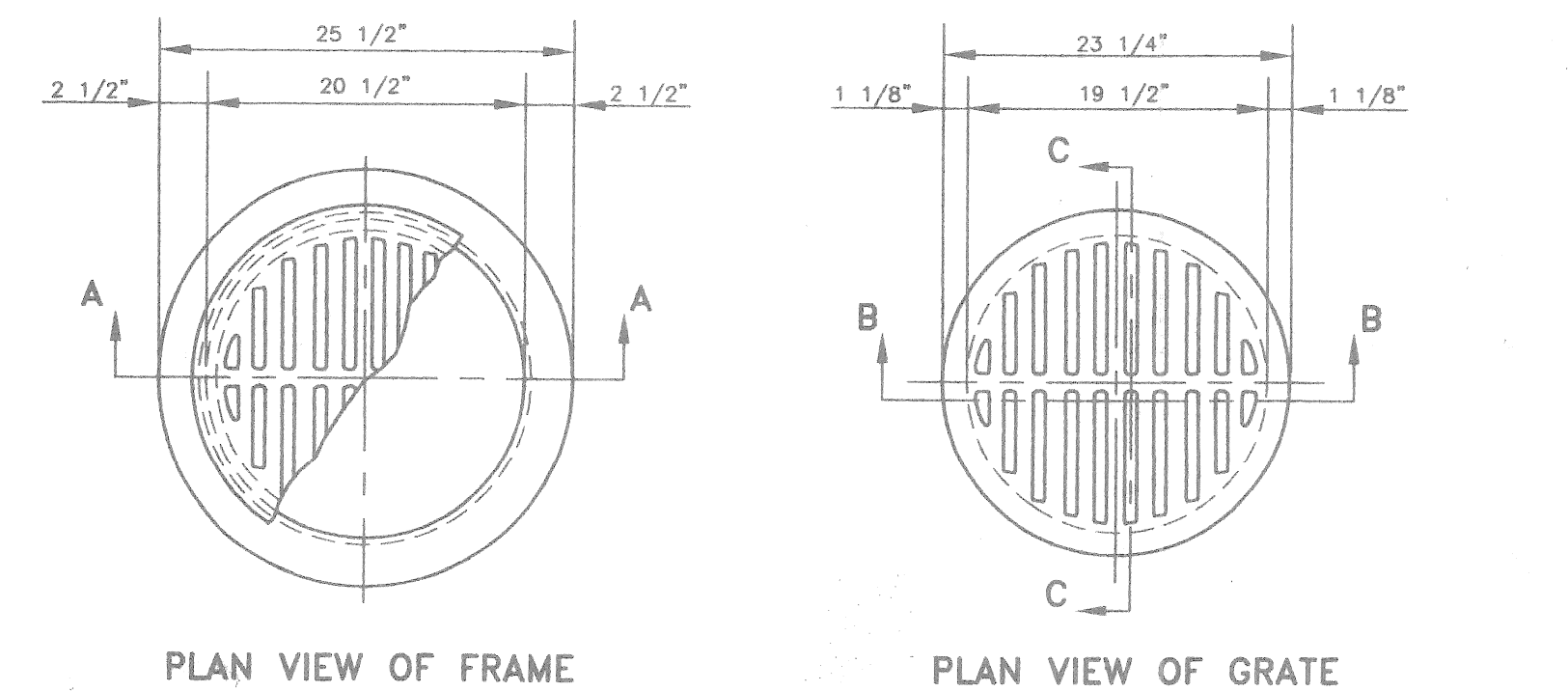
SADDLE CONNECTION TO LATERAL SEWER

NOT TO SCALE



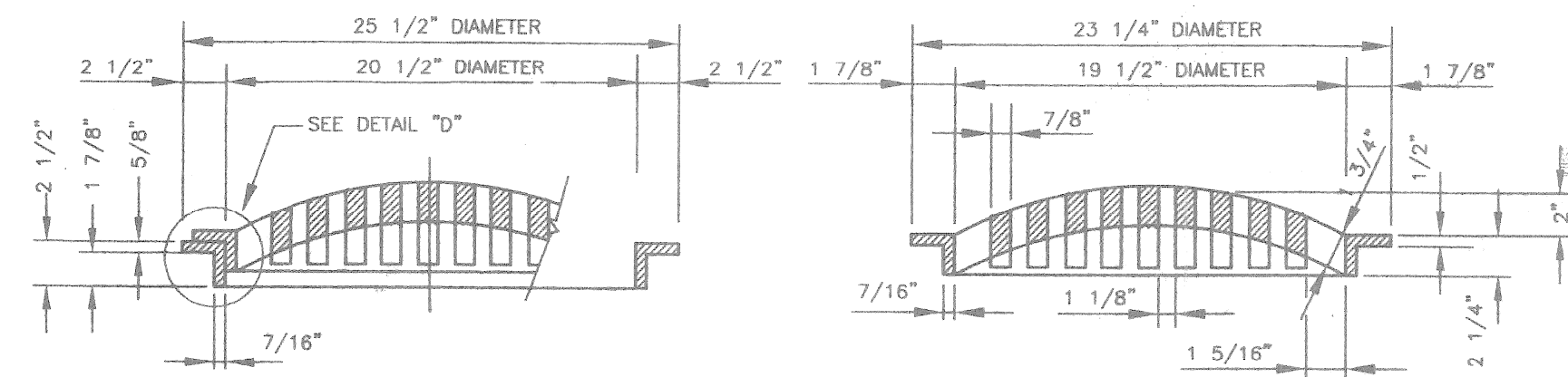
MANHOLE BASIN WITH WYE BRANCH TRAP

NOT TO SCALE



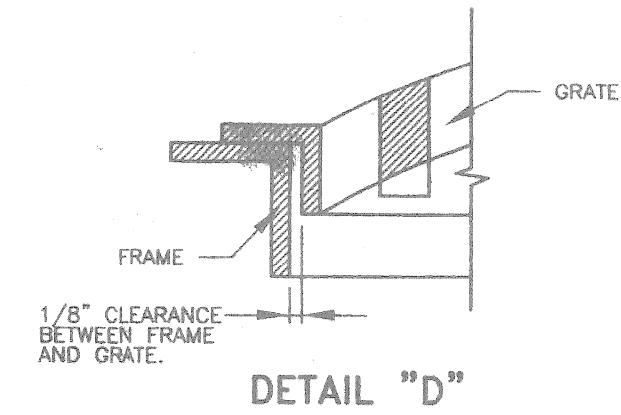
PLAN VIEW OF FRAME

PLAN VIEW OF GRATE



SECTION A-A

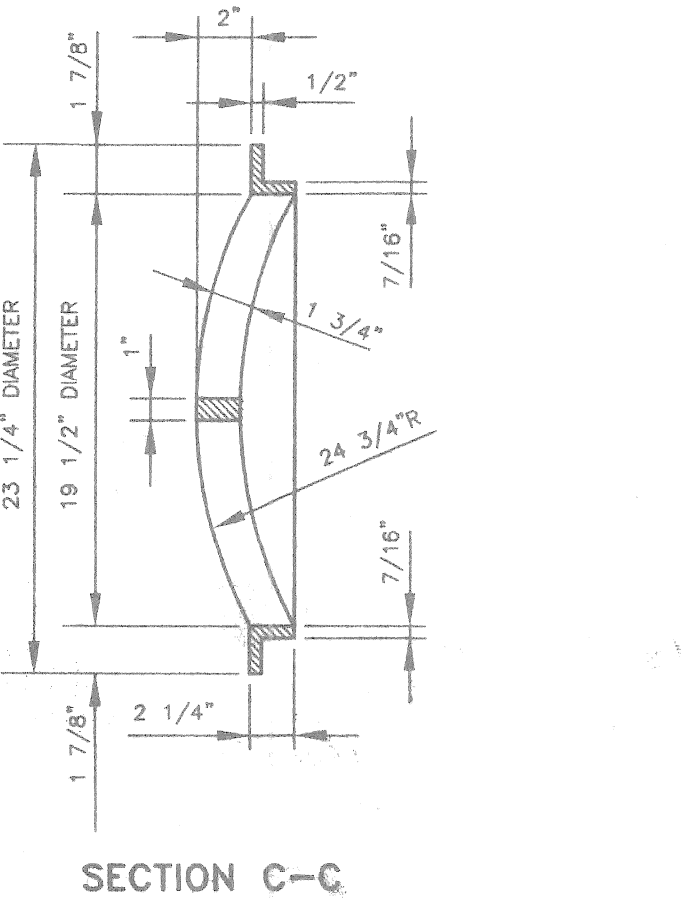
SECTION B-B



DETAIL "D"

DOMED GRATE & FRAME

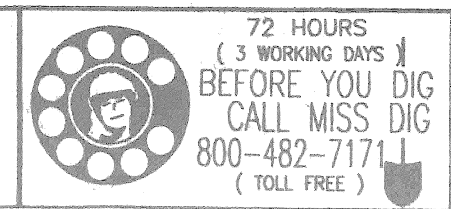
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SECTION C-C

DATE	ISSUE	BY	DATE	ISSUE	BY	F.B.	PAGE	F.B.	PAGE

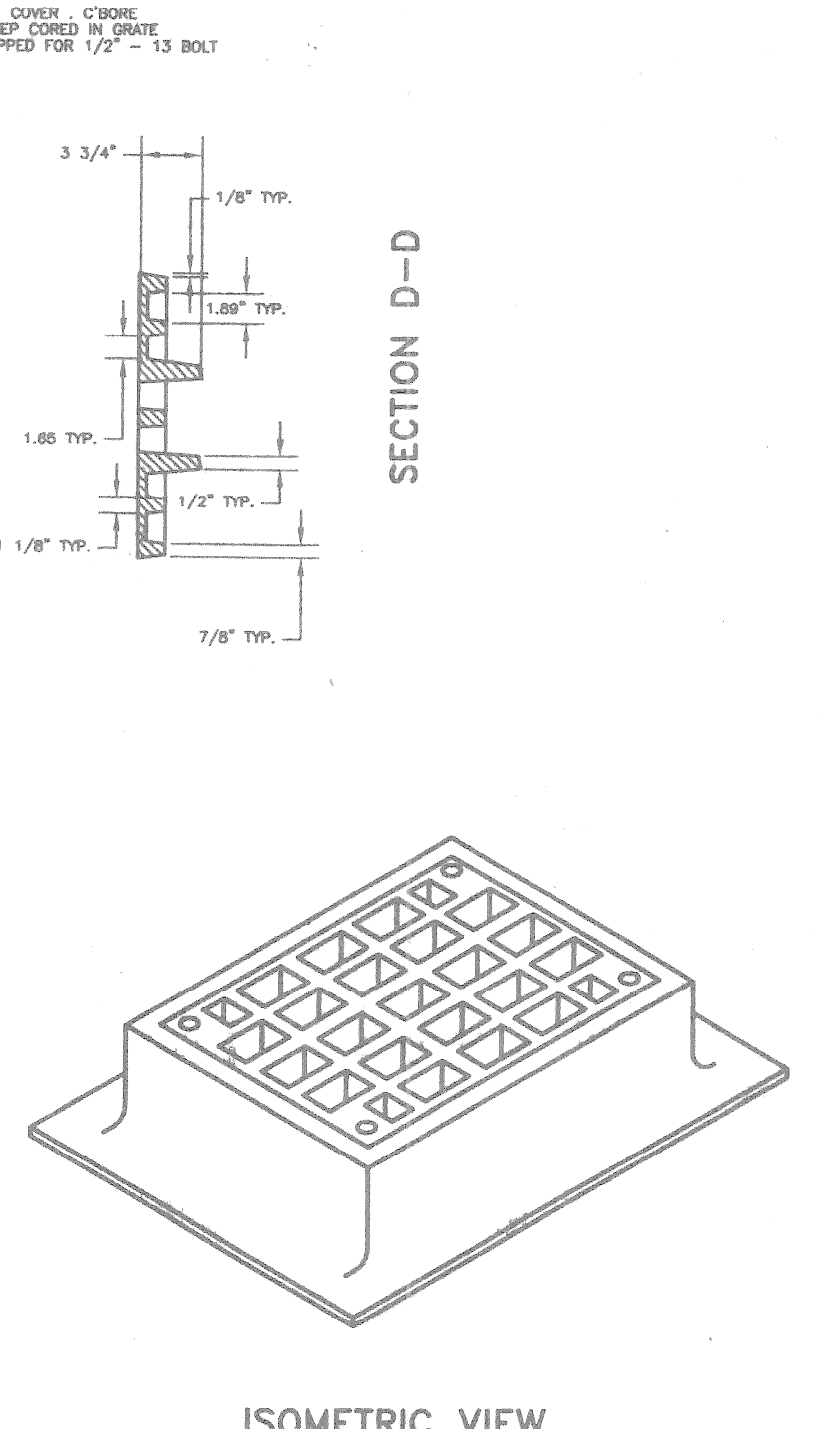
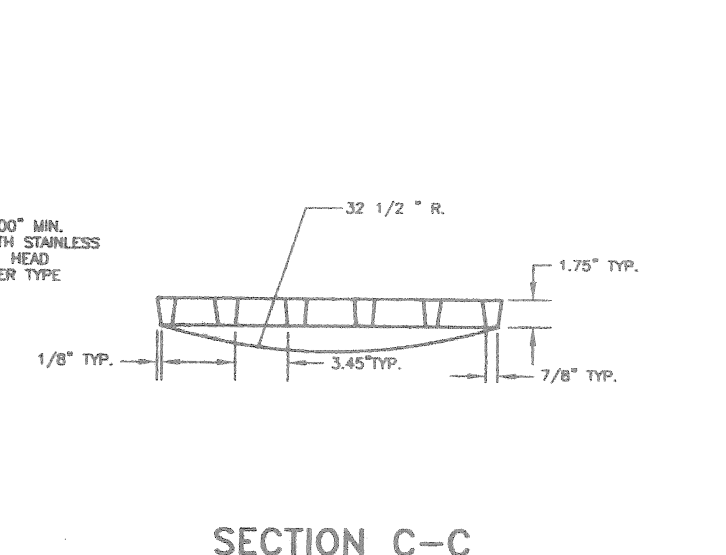
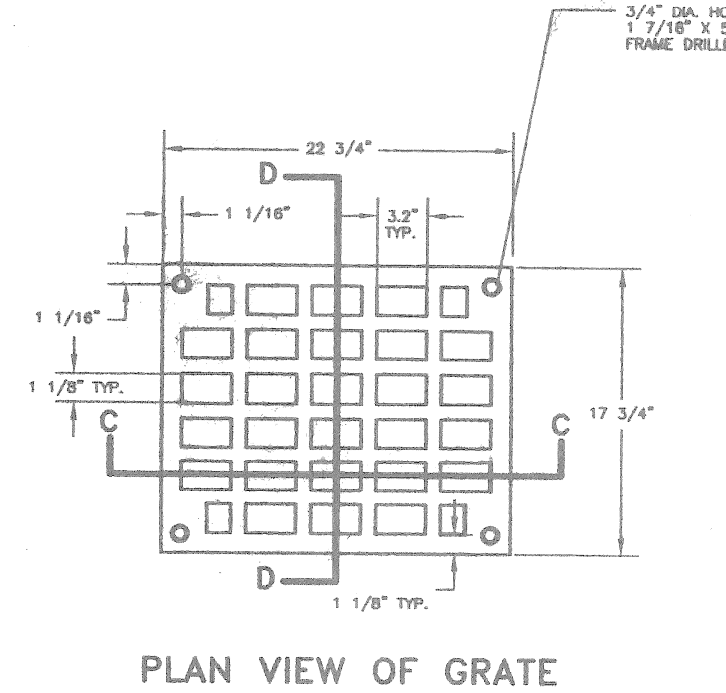
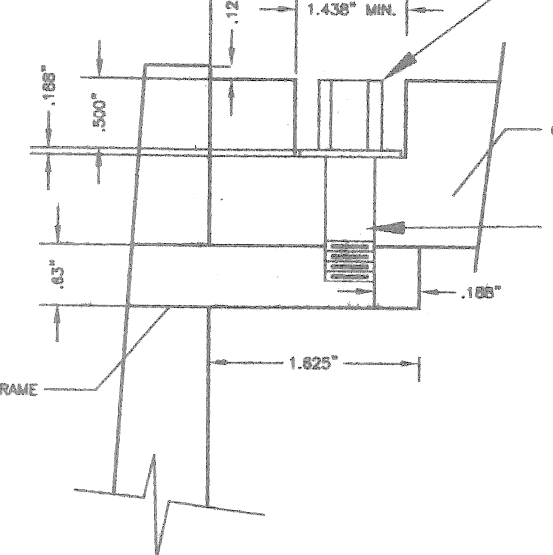
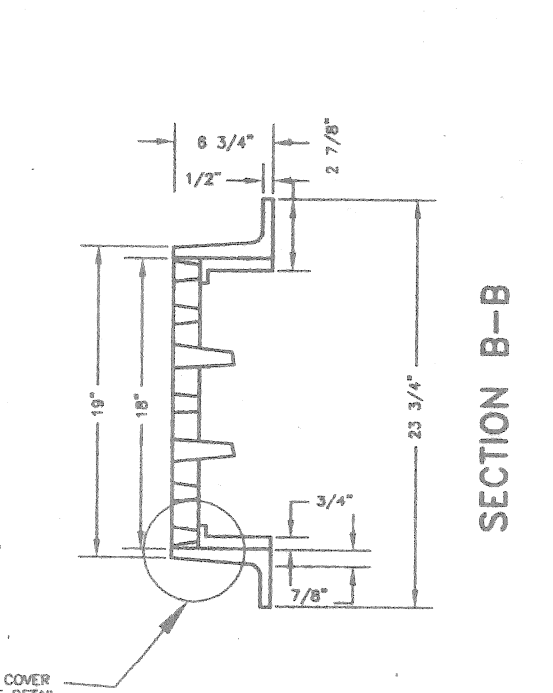
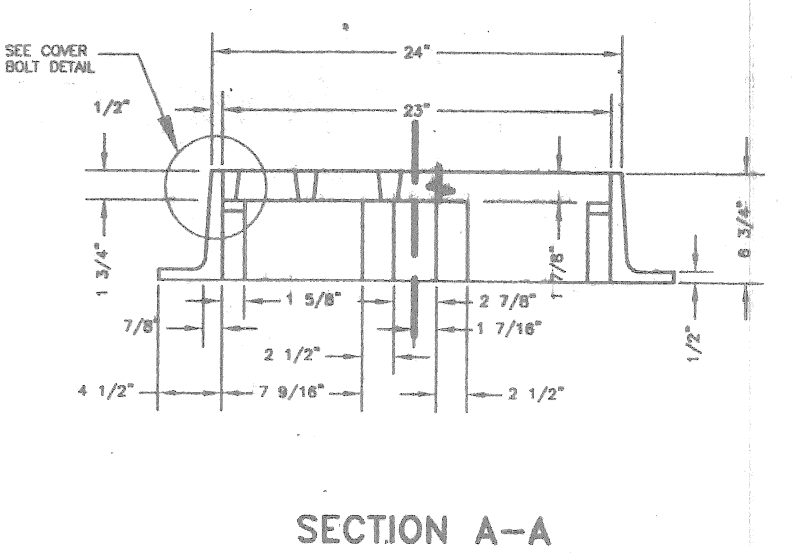
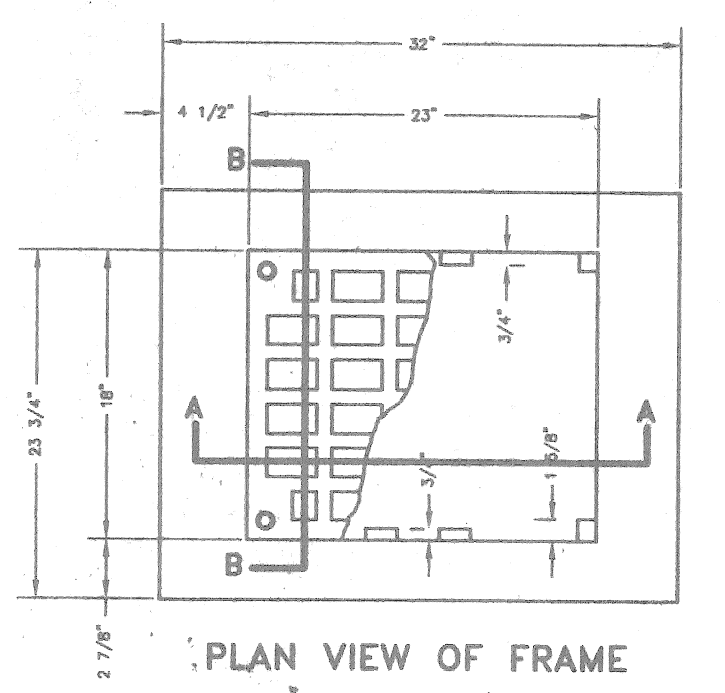
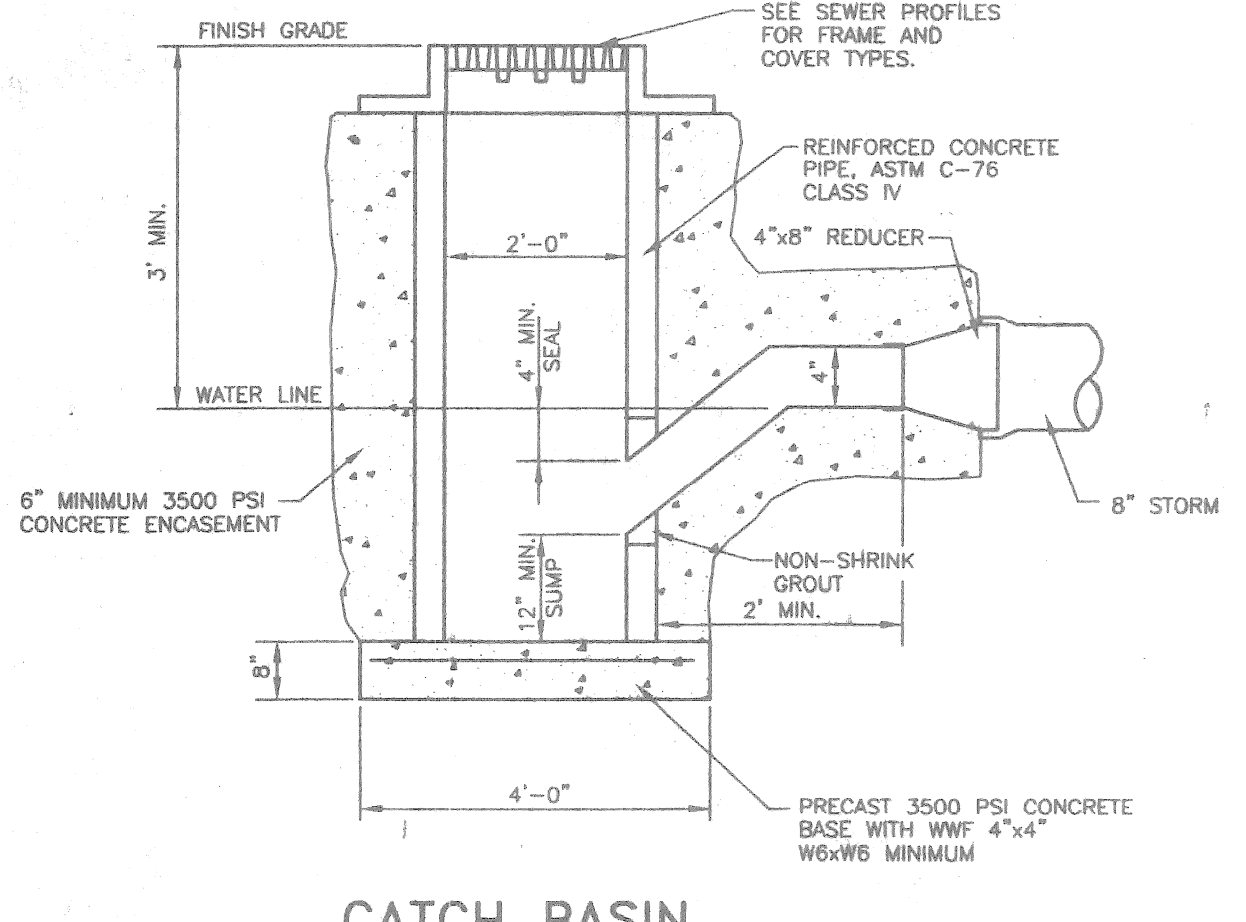
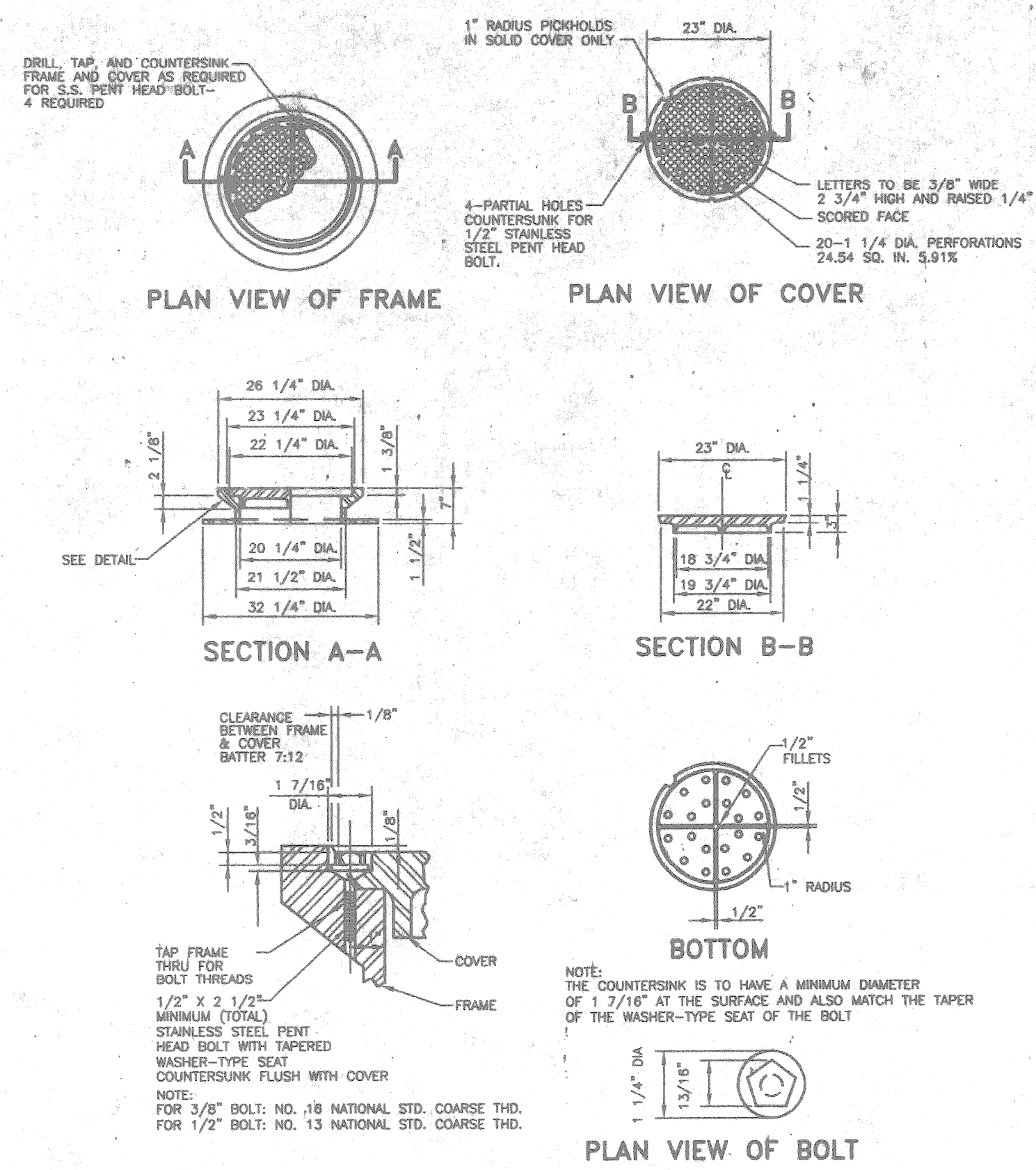
Giffels-Webster Engineers Inc.
ENGINEERS - SURVEYORS - PLANNERS
407 E. FORT STREET SUITE 600 DETROIT MICHIGAN 48226
(313) 962-4442



STANDARD SEWER DETAILS
CITY OF DETROIT
WAYNE COUNTY, MICHIGAN

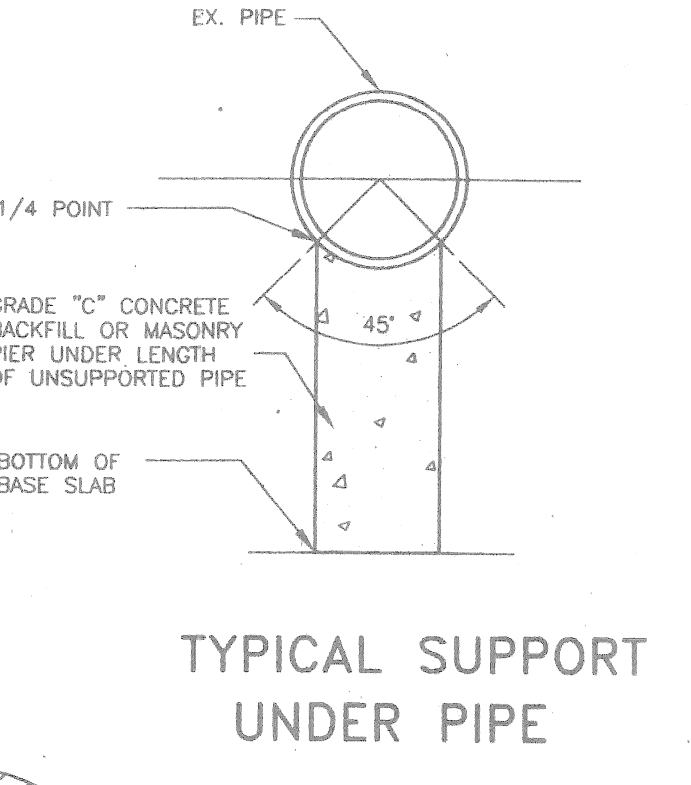
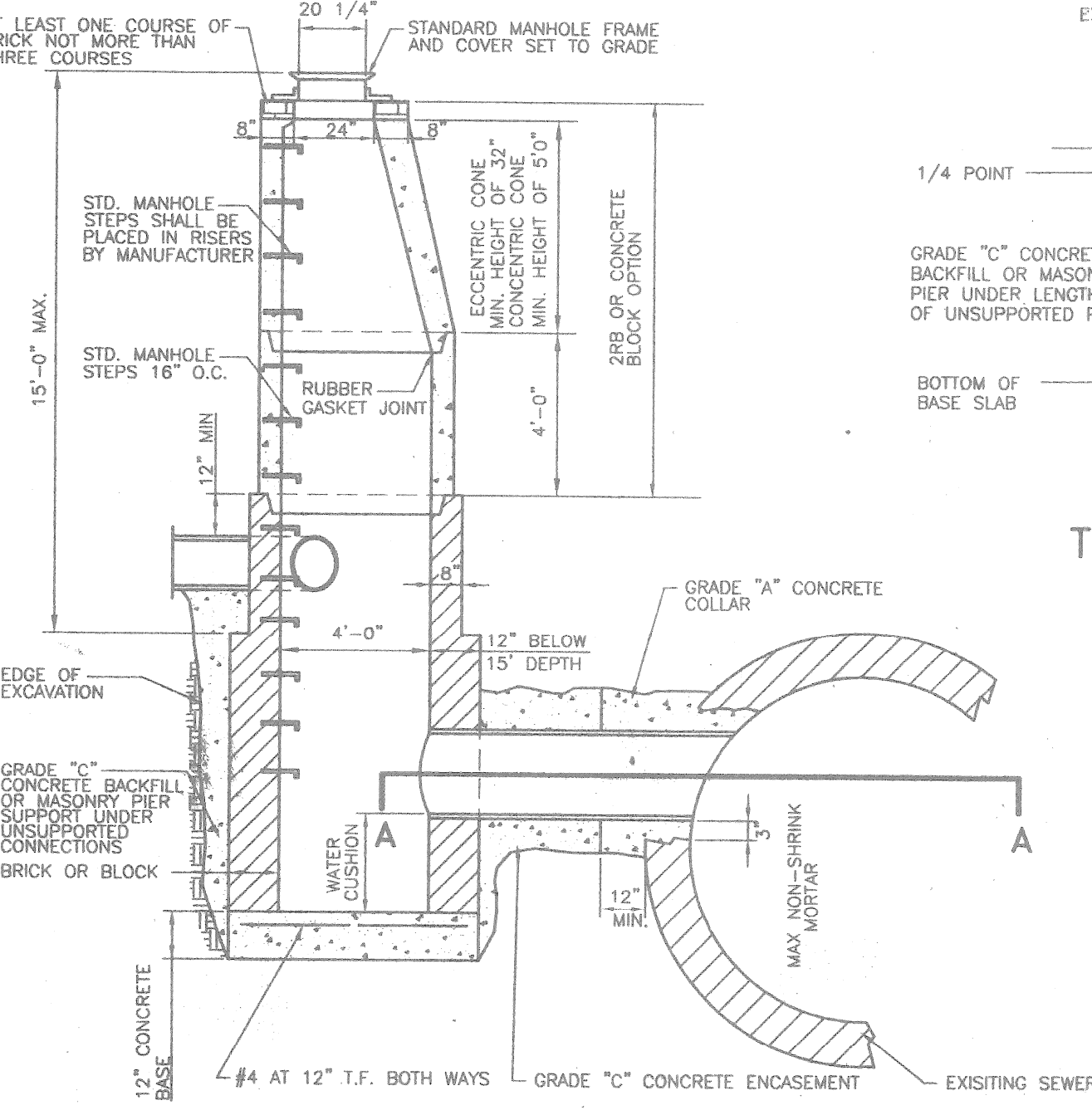
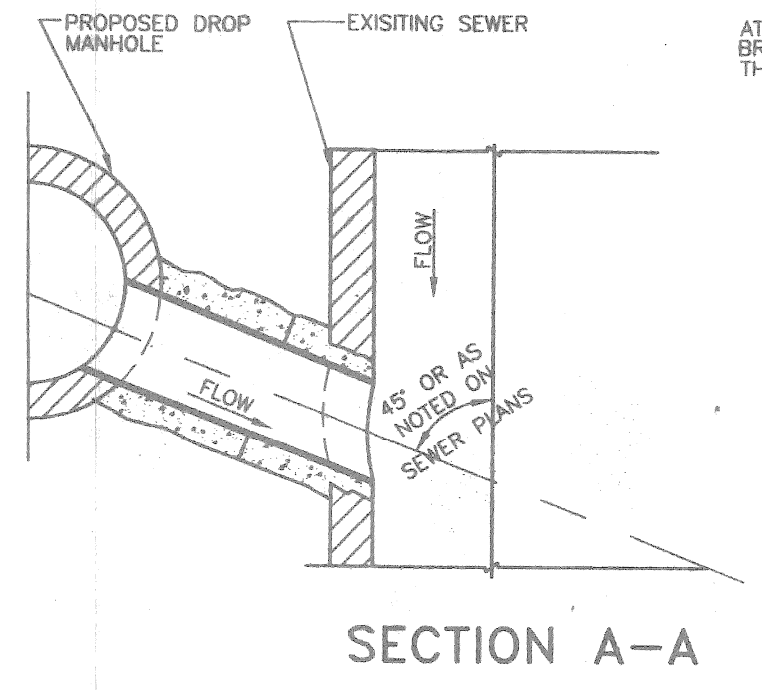
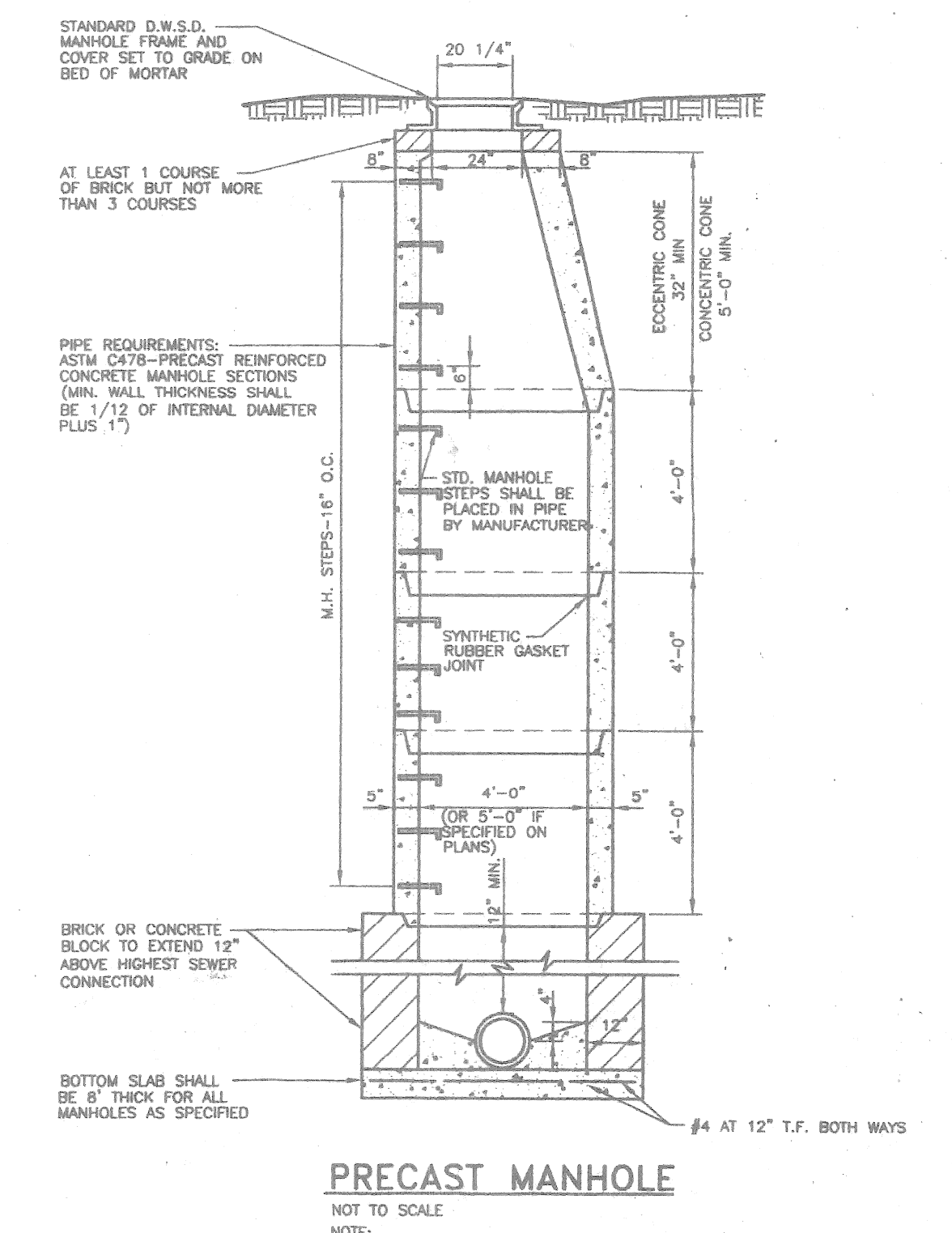
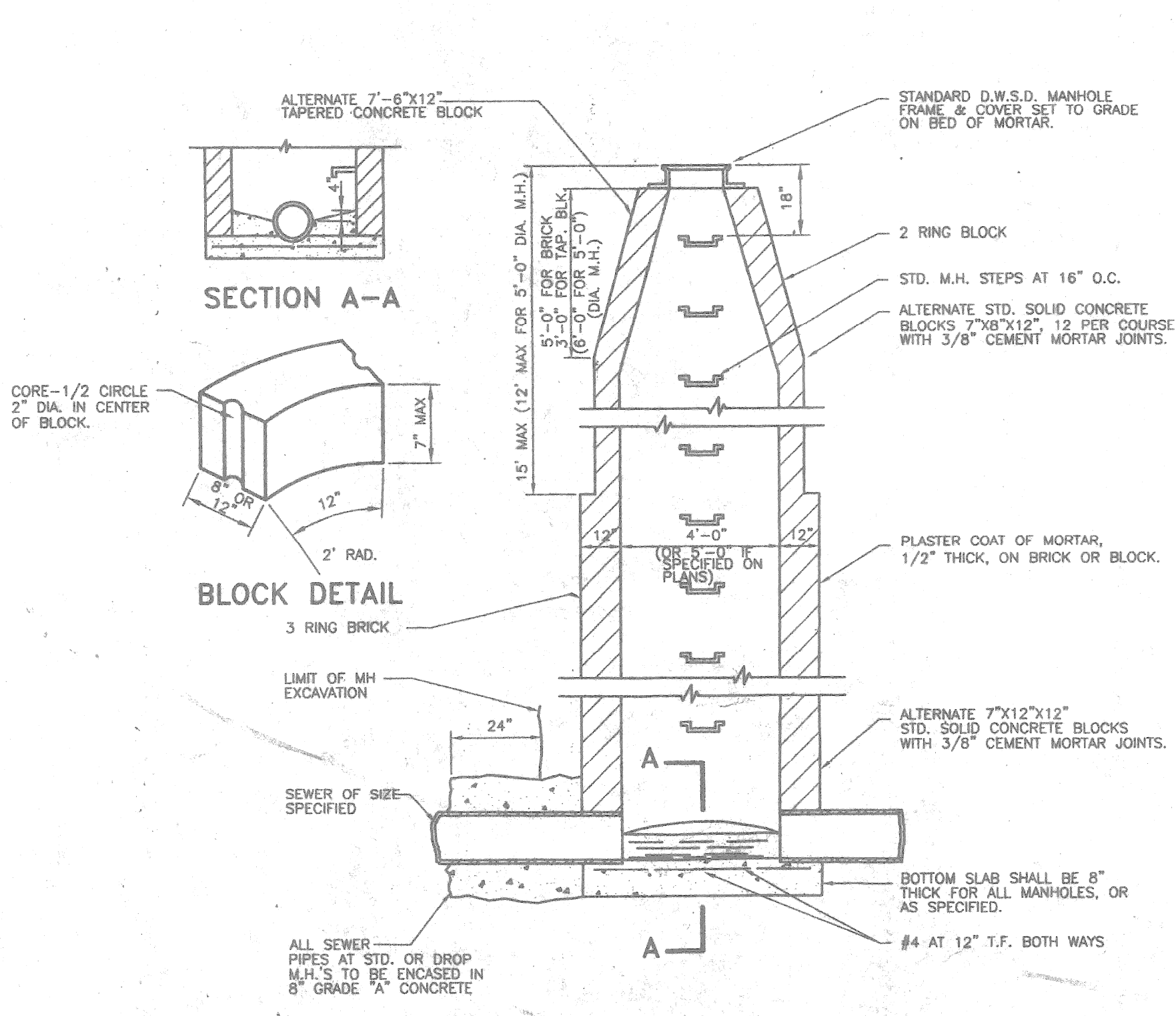
SCALE: AS SHOWN
SHEET: D1
GWE 15615.02D

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THROTTLED CATCH BASIN COVERS

NOT TO SCALE
MATERIAL:
GRAY IRON A.S.T.M. STD. SPEC. A-48, CLASS 30. BEARING SURFACES OF COVER AND FRAME SHALL BE GRIND TO PREVENT ROCKING, CASTING SHALL BE COATED.



DATE	ISSUE	BY	DATE	ISSUE	BY	F.B.	PAGE	F.B.	PAGE

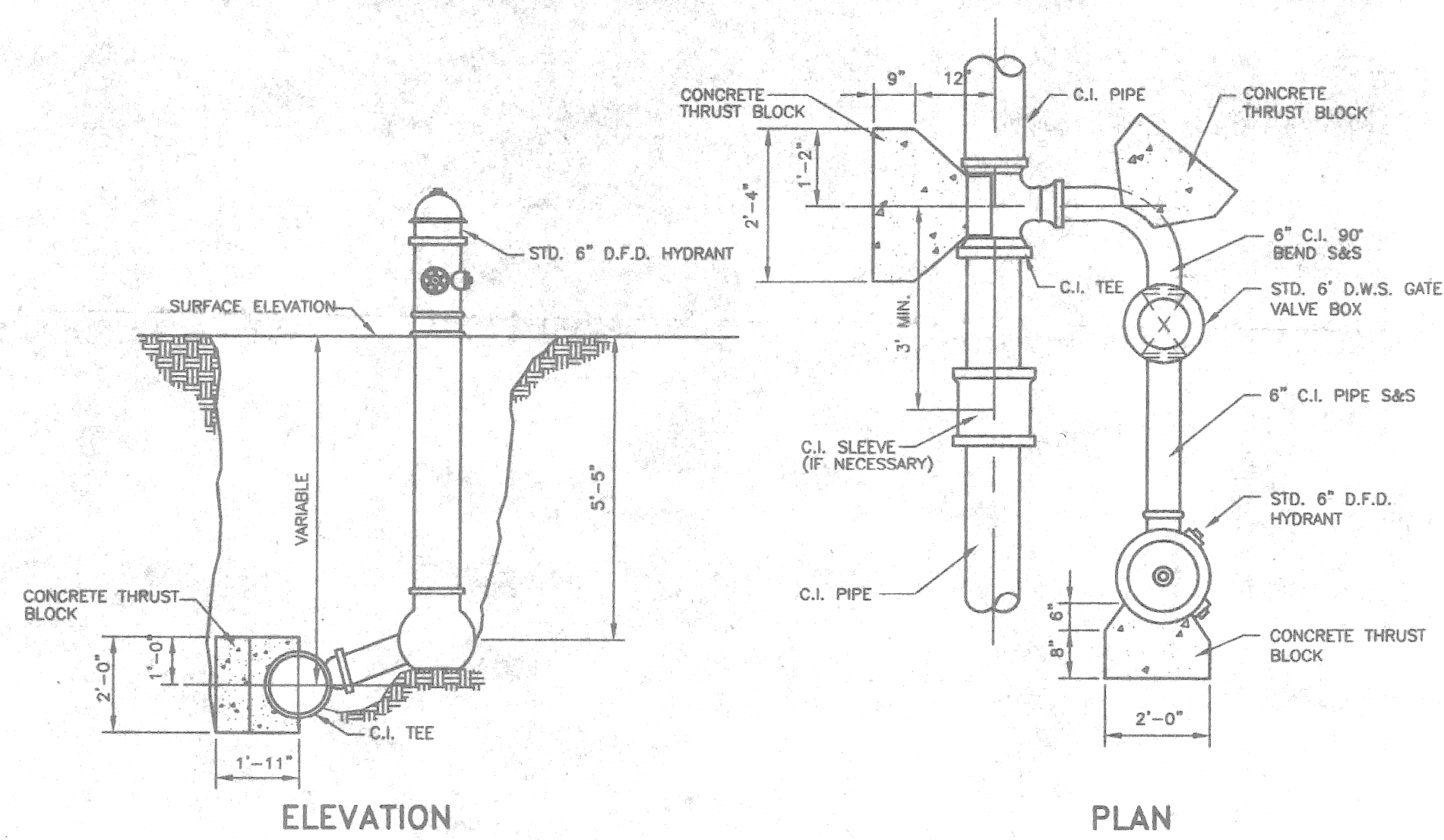
Giffels-Webster Engineers Inc.
ENGINEERS - SURVEYORS - PLANNERS
407 E. FORT STREET SUITE 600 DETROIT MICHIGAN 48226
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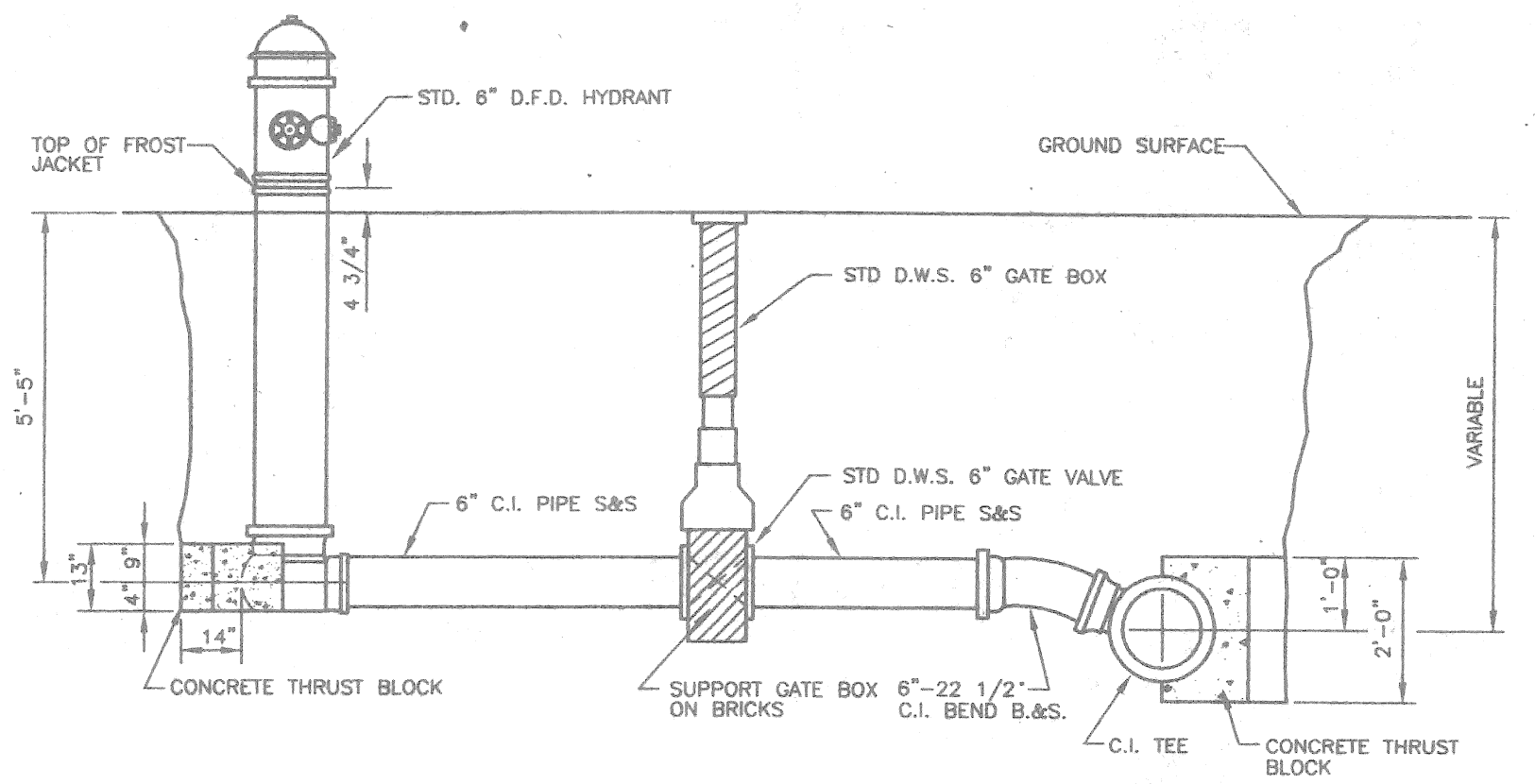
STANDARD SEWER DETAILS
CITY OF DETROIT
WAYNE COUNTY, MICHIGAN

SCALE: AS SHOWN
SHEET: D2
GWE 15615.02D

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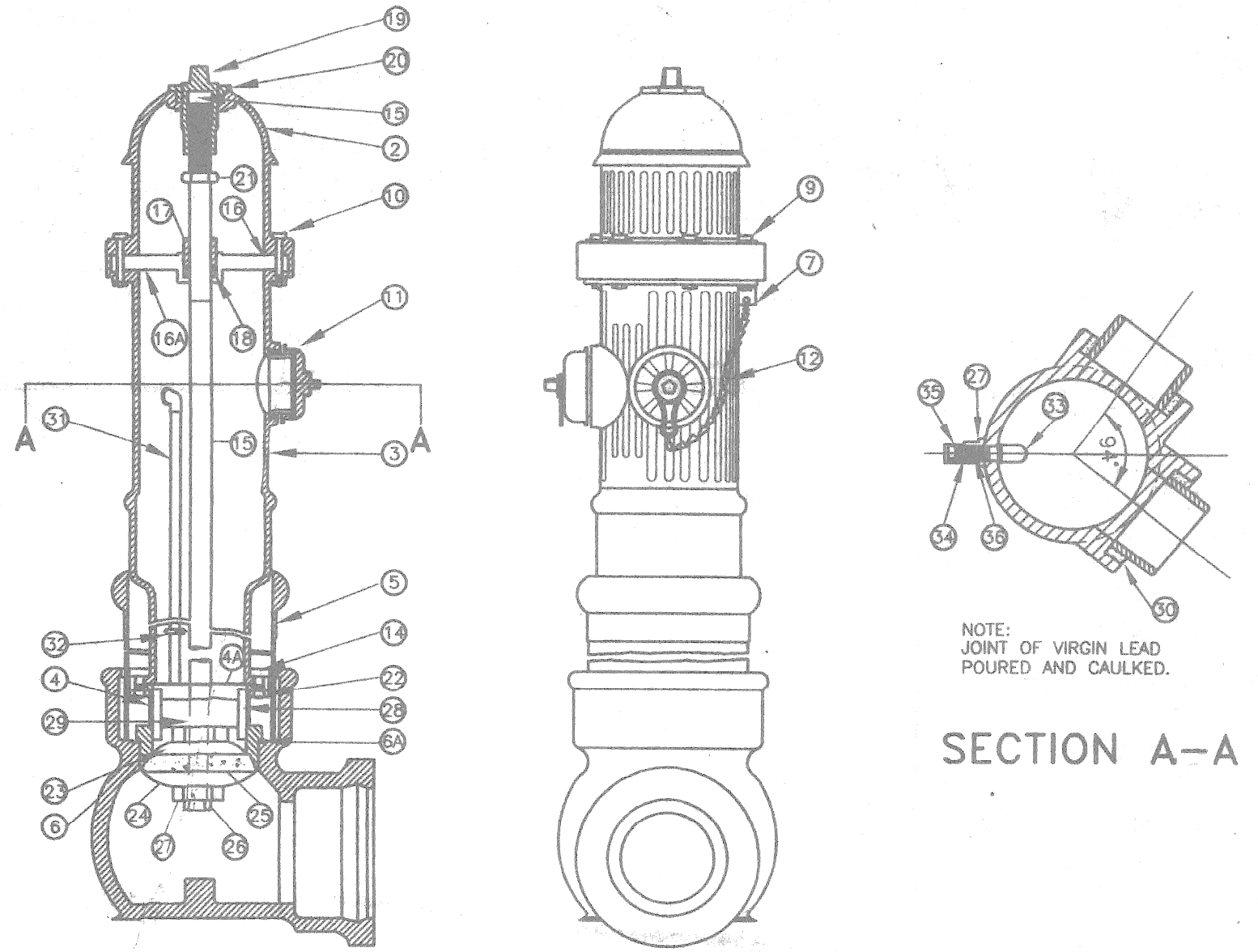


6" HYDRANT INSTALLATION - OFFSET
NOT TO SCALE



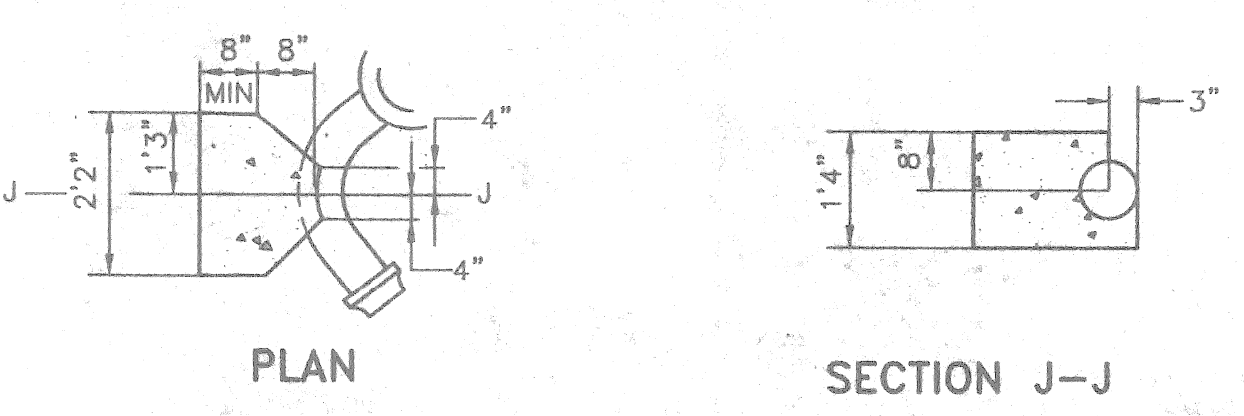
6" HYDRANT INSTALLATION STRAIGHT AWAY
NOT TO SCALE

PART NO.	LEGEND	QTY.
1	6" DETROIT STD. HYDRANT	1
2	BONNET	1
3	STANDPIPE	1
4	EXTENSION PIECE	1
4A	EXTENSION PIECE GASKET	1
5	FROST JACKET	1
6	SHOE	1
6A	SHOE GASKET	1
7	HANGER FOR NOZZLE CAP CHAIN	2
8	NOZZLE	2
9	BONNET BOLTS AM STD. 1/2"x3 1/2" SQ HD.	2
10	BONNET BOLTS AM STD. 1/2"x3 1/4" SQ HD.	4
11	NOZZLE CAP	2
12	NOZZLE CAP CHAIN	2
13	OPENING STEM	1
14	EXT. PC. BOLTS AM STD. 1/2"x1 3/4" SQ HD.	8
15	NON-CORRODING GUN GREASE	-
16	HEAD PLATE	1
16A	HEAD PLATE GASKET	1
17	STEM PACKING NUT	1
18	FLAX-GRAPHED 1/2" SQ. BRAIDED	-
19	STEM OPENING NUT	1
20	HOLD DOWN NUT	1
21	STEM STOP NUT	1
22	AMER. STD. 1/2" HEX. NUTS	14
23	VALVE UPPER PLATE	1
24	VALVE LOWER PLATE	1
25	VALVE DISC	1
26	1" HEXAGON GRIP NUT	1
27	CANDLE WICKING	1
28	VALVE GUIDE	1
29	VALVE GUIDE KEY	1
30	LEAD CAULKING	2
31	3/4" TYPE 'K' COPPER PIPE	1
32	3/8" FTE. BOLT, NUT AND WASHER	1
33	3/4" COPPER 1/2" I.P. 90° BR. ELBOW	1
34	1/2" NIPPLE	1
35	DRAIN CAP	1
36	PACKING NUT AND WASHER	1



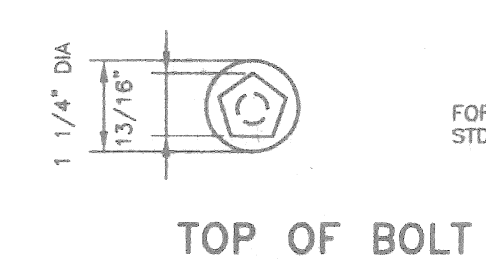
6" DETROIT STANDARD HYDRANT
NOT TO SCALE

NOTE: JOINT OF VIRGIN LEAD POURED AND CAULKED.
SECTION A-A

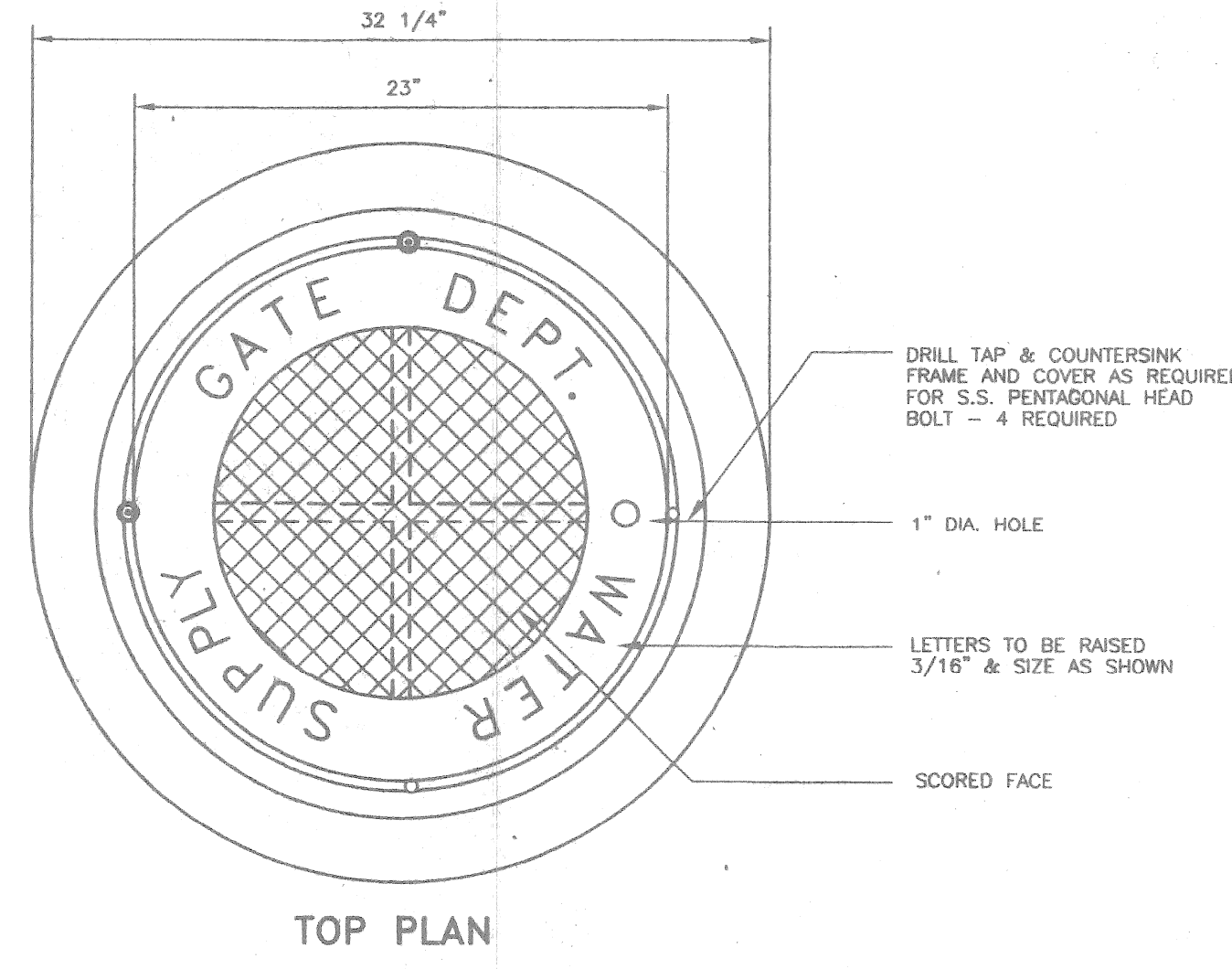


CONCRETE THRUST BLOCK FOR 6" HYDRANT BEND
NOT TO SCALE

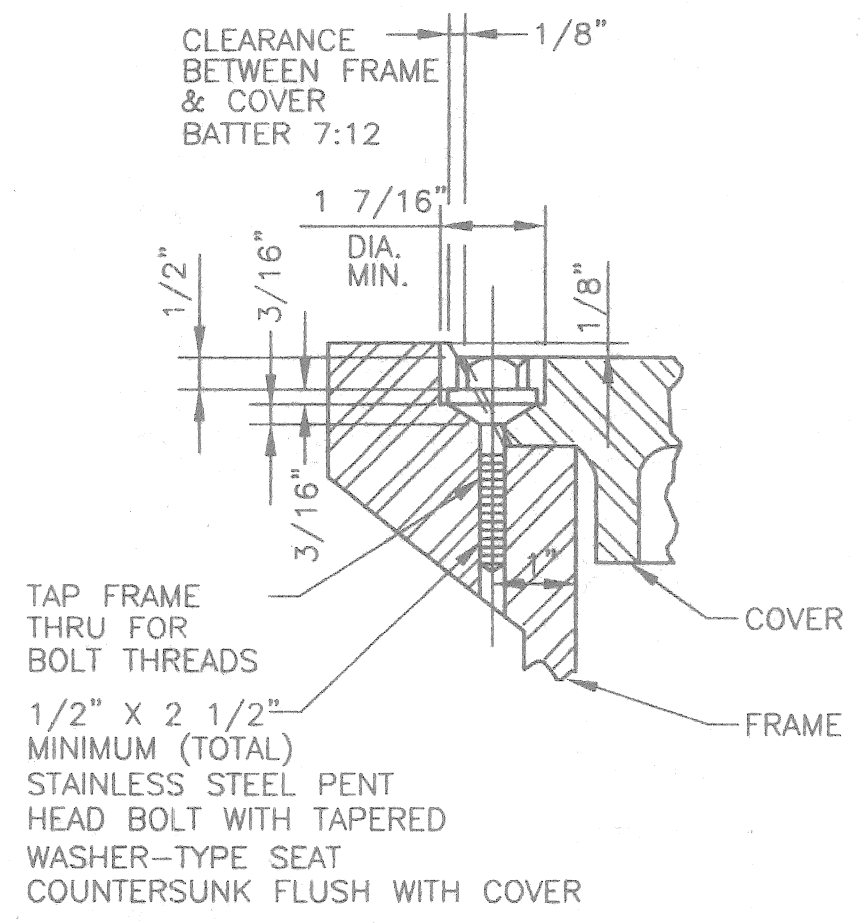
MATERIAL: GRAY IRON, A.S.T.M. STD. SPEC. A-48, CLASS 30. BEARING SURFACES OF COVER AND FRAME SHALL BE GRIND TO PREVENT ROCKING. CASTING SHALL NOT BE COATED.
TOTAL WEIGHT: 420 LB. WITH COVER



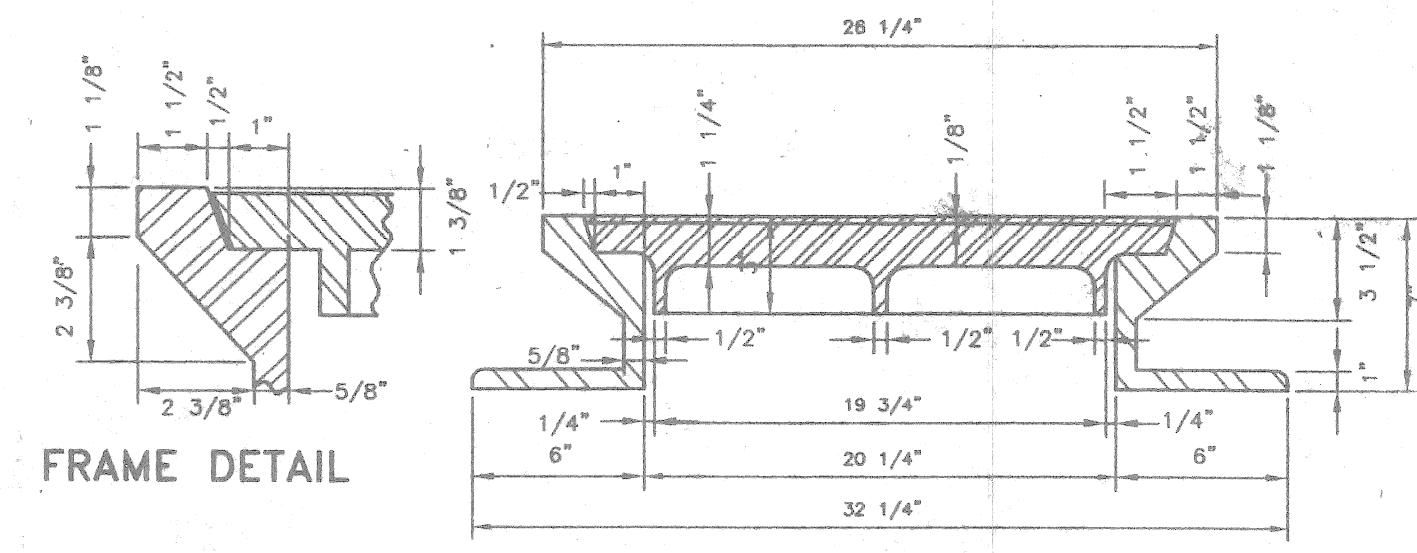
TOP OF BOLT



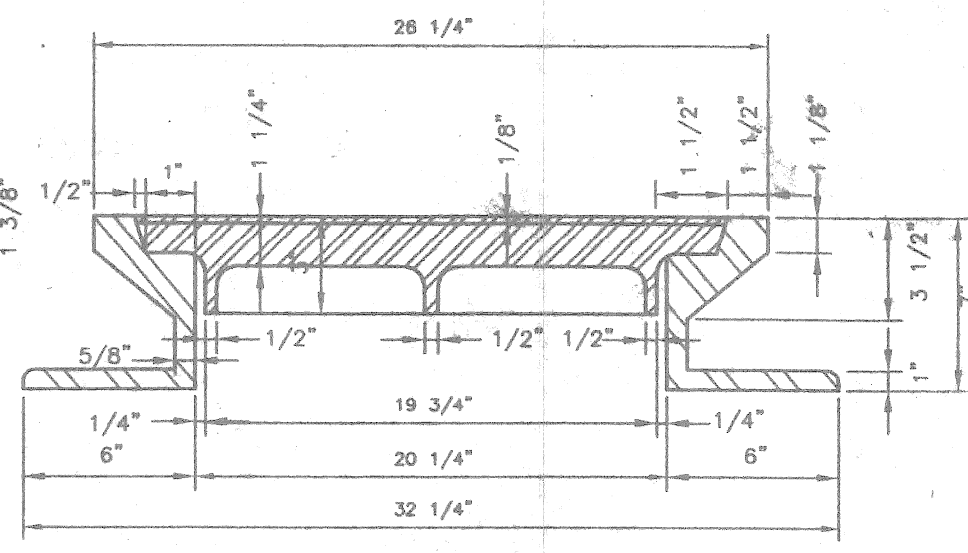
TOP PLAN



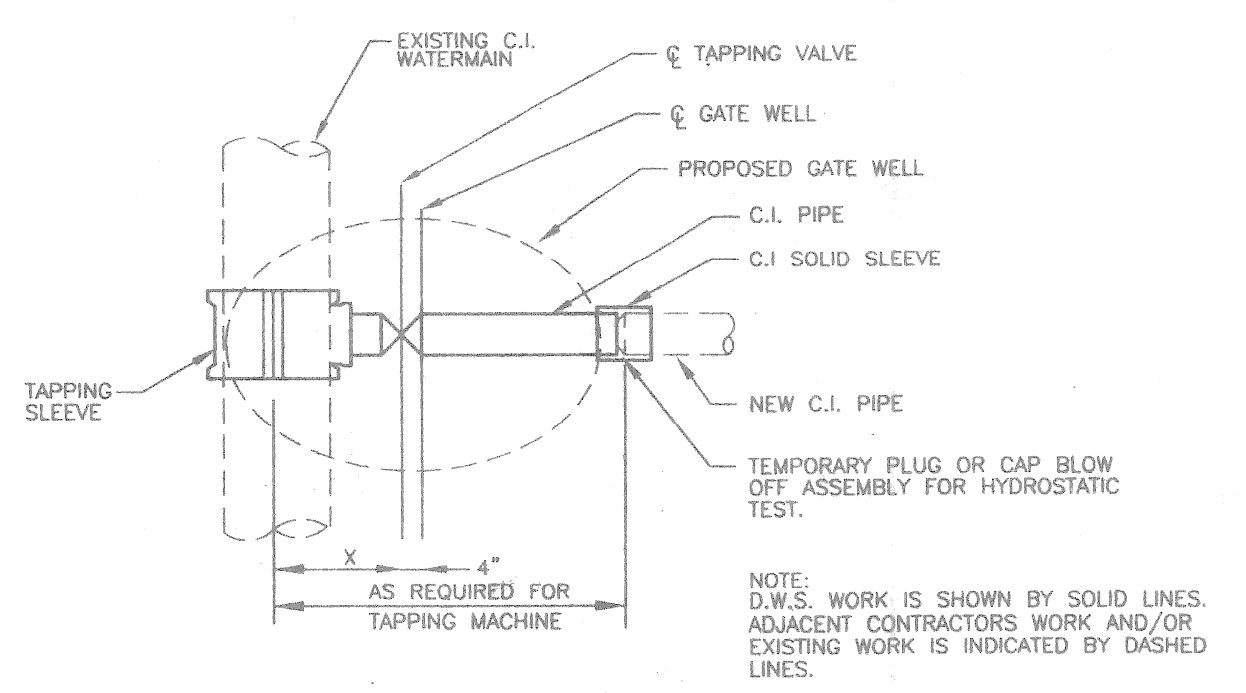
COVER BOLT DETAIL



FRAME DETAIL



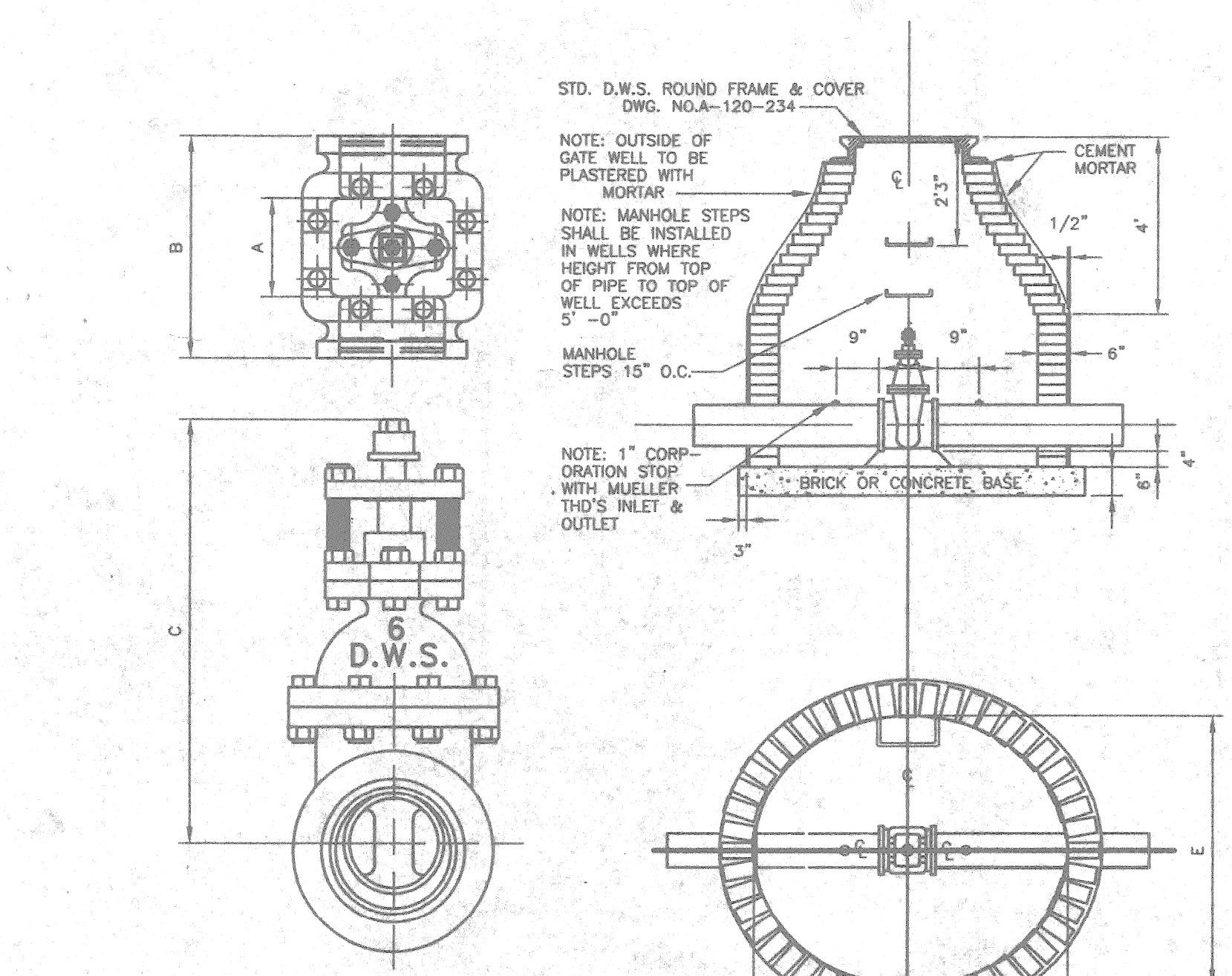
SECTION



SIZE OF S.V.	X"
12"x12"	20 7/8"
12"x8"	21"
12"x6"	19 5/8"
8"x8"	18 3/4"
8"x6"	17 3/8"
6"x6"	16 3/8"

* FOR D.W.S. FITTINGS ONLY

TYPICAL CONNECTION DETAILS
NOT TO SCALE



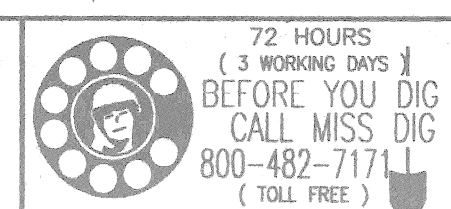
6" - 16" GATE WELLS
NOT TO SCALE

SIZE	WT. OF VALVE	A	B	C	D	E	F
4	120	5-1/2"	11-1/2"	18-3/16"	4-0"	2-8"	3-8"
6	200	6-3/4"	12-3/4"	21-17/16"	5-0"	4-0"	4-8"
8	300	8-1/2"	14-3/4"	24-7/8"	6-0"	5-0"	6-0"
10	375	9-1/2"	15-1/2"	28-7/8"	7-0"	6-0"	7-0"
12	547	11-1/2"	18-1/2"	34-3/8"	8-0"	7-0"	8-0"
16	1300	15-3/4"	24-1/2"	46-1/2"	11-0"	10-0"	11-0"

GATE WELL FRAME AND COVER
NOT TO SCALE

DATE	ISSUE	BY	DATE	ISSUE	BY	F.B.	PAGE	F.B.	PAGE

Giffels-Webster Engineers Inc.
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407 E. FORT STREET SUITE 600 DETROIT MICHIGAN 48226
(313) 962-4442



STANDARD WATER DETAILS
CITY OF DETROIT
WAYNE COUNTY, MICHIGAN

SCALE: AS SHOWN
SHEET: D3
GWE 15615.02D

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