

CLIENT

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D	SITE PKG - 90% REVIEW	2019-08-27
E	PERMIT	2019-09-25
F	PERMIT - REV. NO. 1	2019-10-28
G	PERMIT - REV. NO. 3	2019-11-18
H	PERMIT - REV. NO. 4	2019-12-06
I	PERMIT - REV. NO. 7	2020-01-14
J	PERMIT - REV. NO. 9	2020-02-06
K	PERMIT - REV. NO. 10	2020-03-04

CONSULTANTS

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PROJECT  
**FCA GEORGIA STREET PROJECT**  
6836 GEORGIA ST  
DETROIT, MI 48211

PROJECT NO:  
121872

DRAWN BY:

CHECKED BY:  
**F. KHALIL**

PROJECT MGR:

APPROVED BY:  
**G. TANNAR**

SHEET TITLE

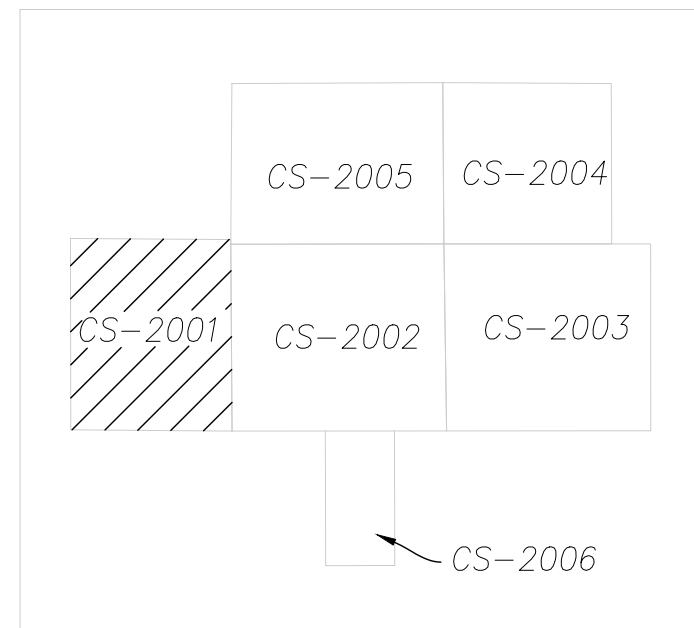
**OVERALL SITE UTILITY INDEX**

SHEET NUMBER

**CS-2000**

ISSUE

INDEX MAP



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PROJECT  
**FCA GEORGIA STREET PROJECT**  
6836 GEORGIA ST  
DETROIT, MI 48211

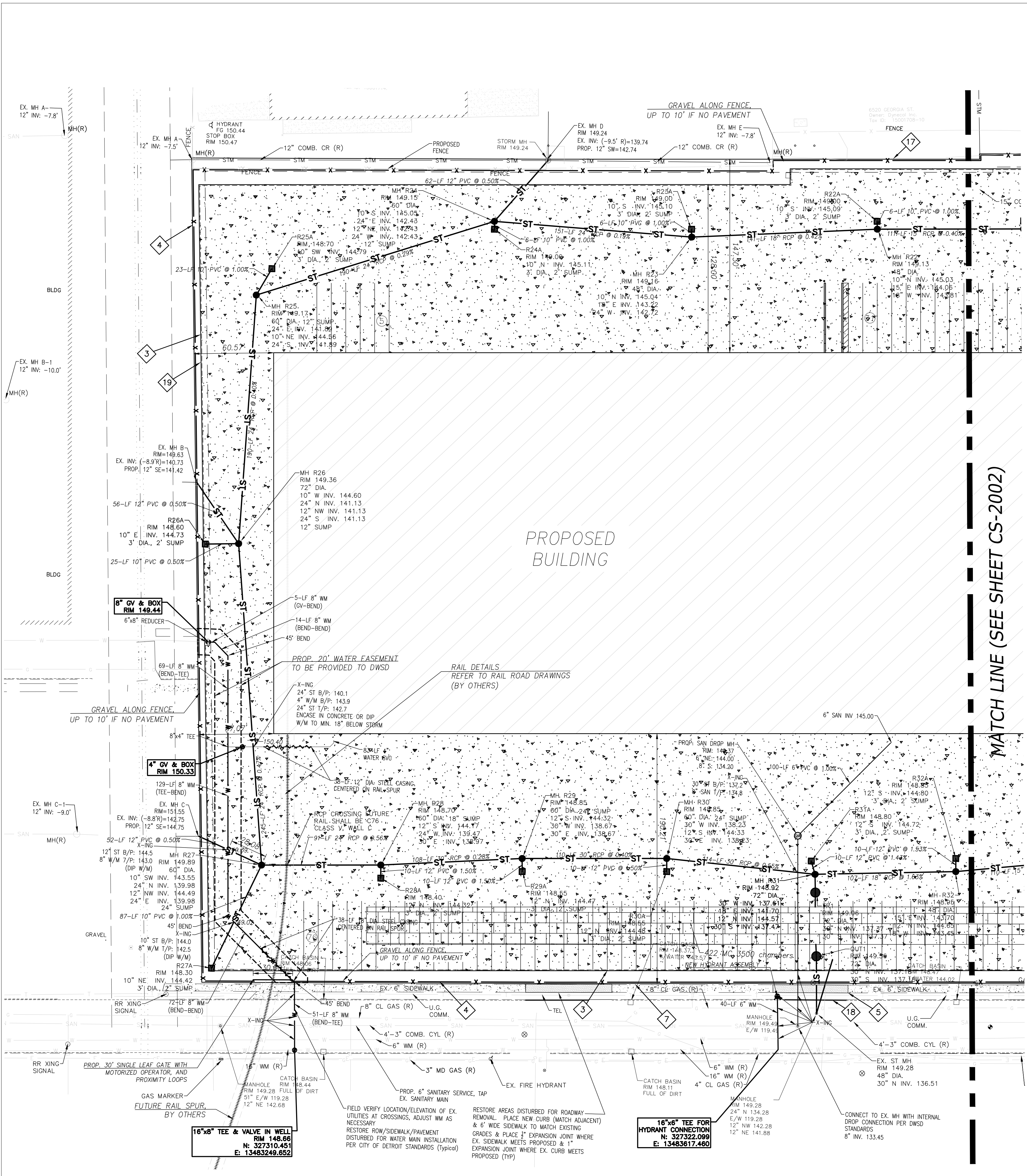
PROJECT NO:  
121872

DRAWN BY: F. KHALIL	CHECKED BY: G. TANNAR
PROJECT MGR:	APPROVED BY:

SHEET TITLE  
**SITE UTILITY PLAN**

SHEET NUMBER  
CS-2001

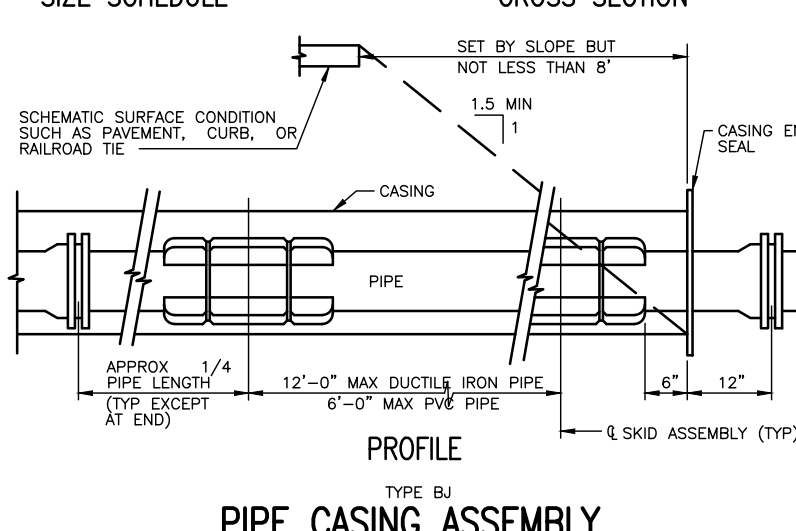
ISSUE



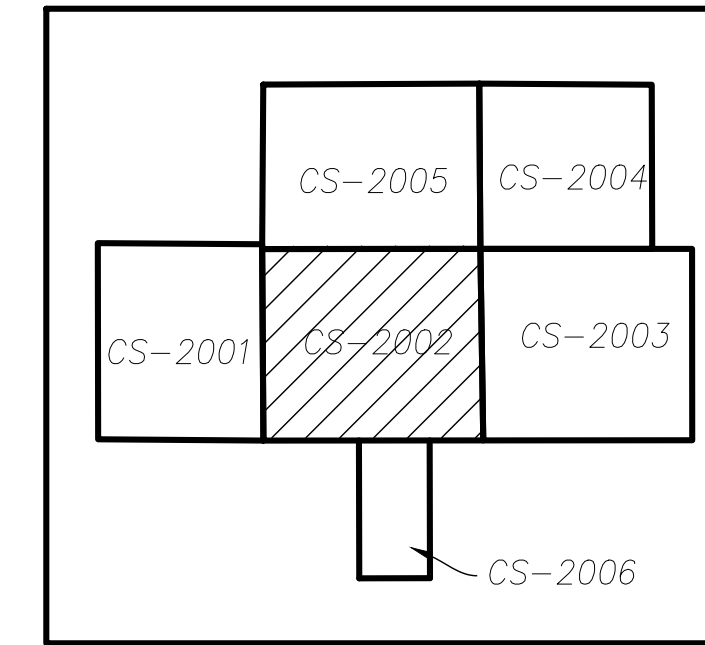
- LEGEND**
- PROP. CONCRETE PAVEMENT
  - PROP. BUILDING AREA
  - PROP. BUILDING
  - PROP. PAVEMENT MARKING
  - PROP. EDGE OF PAVEMENT
  - PROP. FENCE
  - PROP. WALK
  - PROP. CONCRETE PAVEMENT
  - PROP. PROPERTY LINE
  - PROP. GUARD SHACK
  - PROP. WATER SERVICE
  - PROP. STORM LINE
  - PROP. CATCH BASIN
  - PROP. STORM MANHOLE
  - PROP. SANITARY LINE
  - PROP. SANITARY MANHOLE
  - PROP. BOLLARD
  - PROP. WALL
  - PROP. CONSTRUCTION LIMITS
  - PROP. CURB

NOTES:  
1. SIZES SHOWN FOR MECHANICAL JOINT DUCTILE IRON PIPE. INCREASE AS NECESSARY TO PROVIDE INDICATED CLEARANCES FOR OTHER TYPE PIPE.  
2. SKID CLEARANCE: (1" TOP SKID)  
THRU 4" PIPES: 1" MIN, 3" MAX  
6" - 12" PIPES: 2" MIN, 4" MAX  
14" - 16" PIPES: 3" MIN, 5" MAX  
3. CASING PIPE SHALL BE STEEL, PLAN END, HAVE A MINIMUM YIELD POINT STRENGTH OF 35,000 PSI AND CONFORM TO ASTM A 252 GRADE 2

PIPE SIZE (IN)	MINIMUM CASING SIZE (IN)	MIN. THICK (IN)	No. OF SKIDS
3	10	0.375	4
4	12	0.375	4
6	16	0.375	4
8	18	0.375	4
10	20	0.375	4
12	22	0.375	6
14	26	0.469	6
16	28	0.469	6



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PROJECT  
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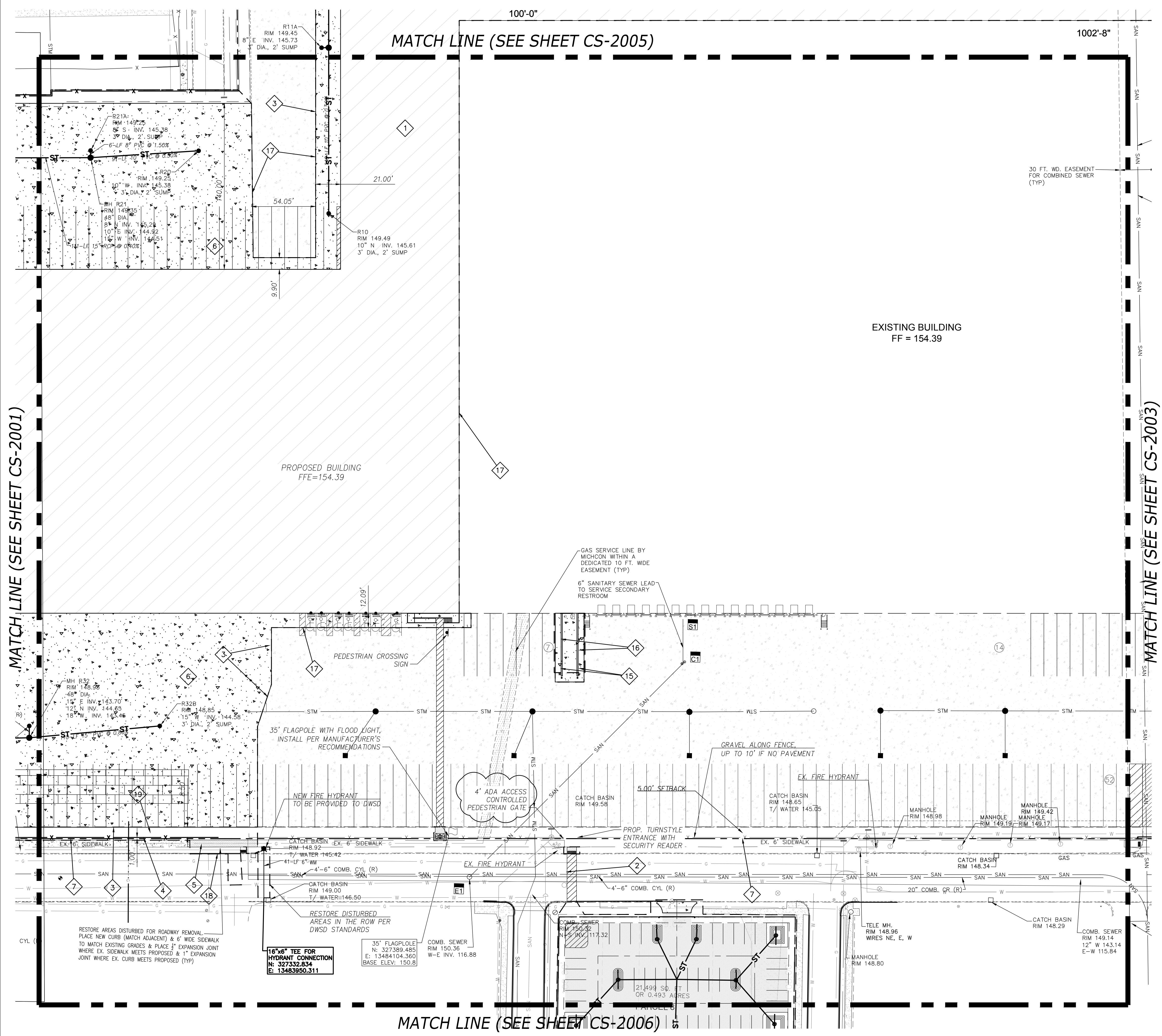
PROJECT NO:  
121872

DRAWN BY: [ ] CHECKED BY:  
**F. KHALIL**

PROJECT MGR: [ ] APPROVED BY:  
**G. TANNAR**

SHEET TITLE **SITE UTILITY PLAN**

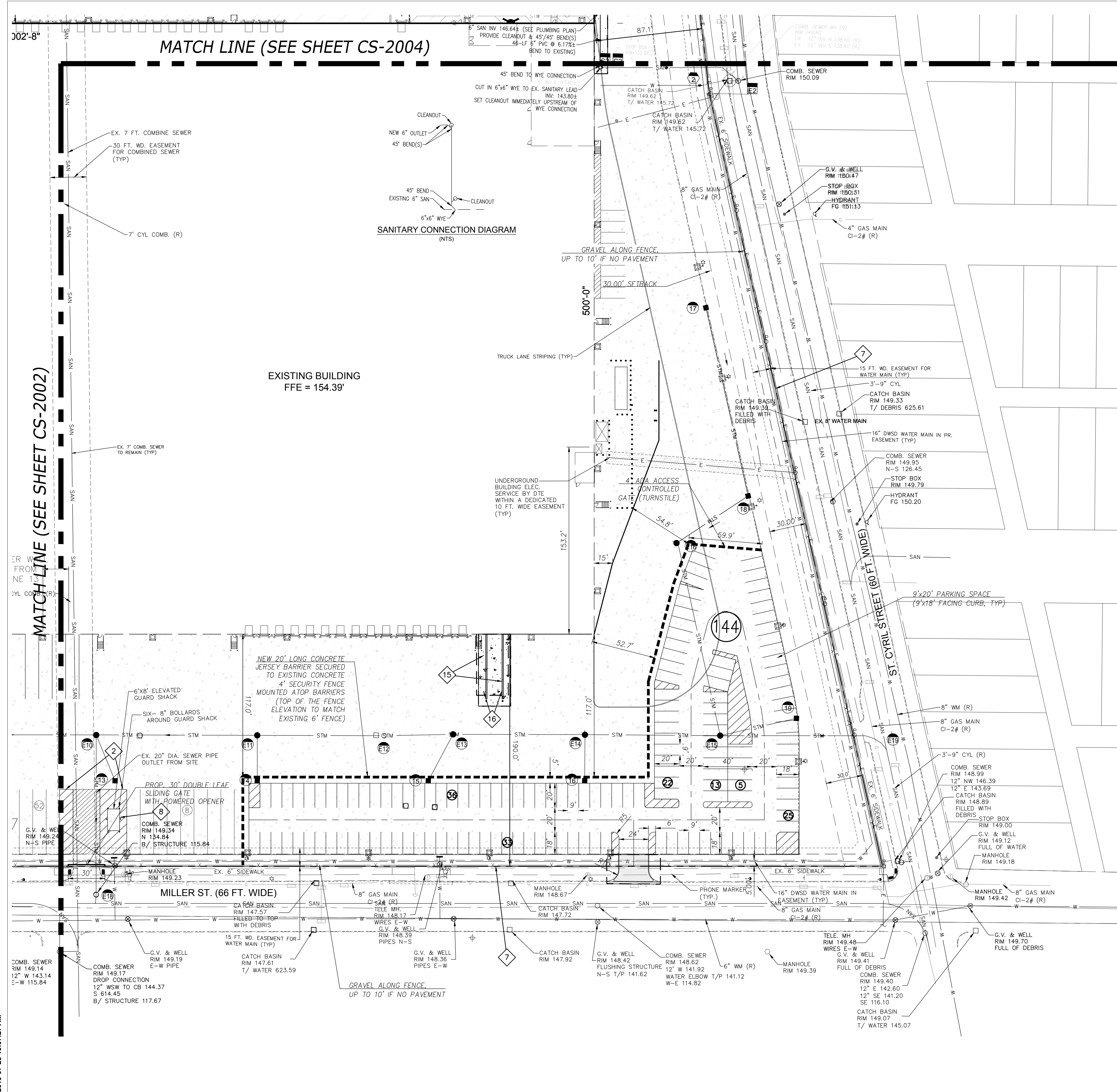
SHEET NUMBER **CS-2002** ISSUE



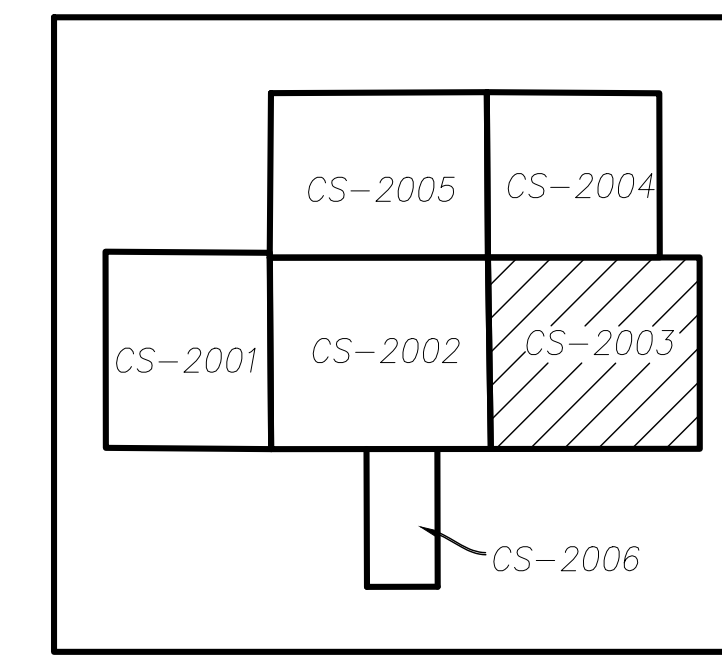
SEE SHEET CX-0006 FOR UTILITY STRUCTURE INFORMATION.

2019-07-23 10:07:27 AM

IBI GROUP



INDEX MAP



LEGEND

- [Pattern] PROP. CONCRETE PAVEMENT
- [Pattern] PROP. BUILDING AREA
- [Symbol 1] PROP. BUILDING
- [Symbol 2] PROP. PAVEMENT MARKING
- [Symbol 3] PROP. EDGE OF PAVEMENT
- [Symbol 4] PROP. FENCE
- [Symbol 5] PROP. WALK
- [Symbol 6] PROP. CONCRETE PAVEMENT
- [Symbol 7] PROP. PROPERTY LINE
- [Symbol 8] PROP. GUARD SHACK
- [Symbol 9] PROP. WATER SERVICE
- [Symbol 10] PROP. STORM LINE
- [Symbol 11] PROP. CATCH BASIN
- [Symbol 12] PROP. STORM MANHOLE
- [Symbol 13] PROP. SANITARY LINE
- [Symbol 14] PROP. SANITARY MANHOLE
- [Symbol 15] PROP. BOLLARD
- [Symbol 16] PROP. WALL
- [Symbol 17] PROP. CONSTRUCTION LIMITS
- [Symbol 18] PROP. CURB

UTILITY NOTES

SEE SHEET CX-0006 FOR UTILITY STRUCTURE INFORMATION.

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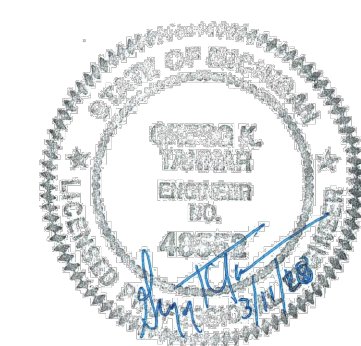
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PROJECT NO:  
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DRAWN BY:

CHECKED BY:

**F. KHALIL**

PROJECT MGR:

APPROVED BY:

**G. TANNAR**

SHEET TITLE

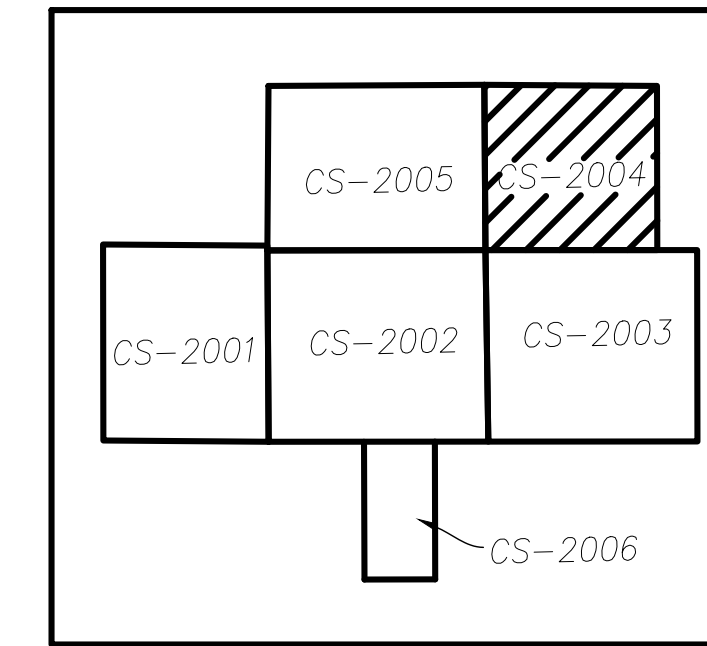
**SITE UTILITY PLAN**

SHEET NUMBER

**CS-2003**

ISSUE

INDEX MAP



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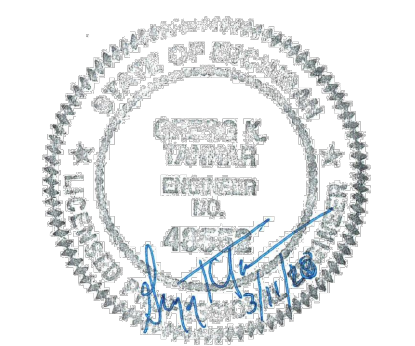
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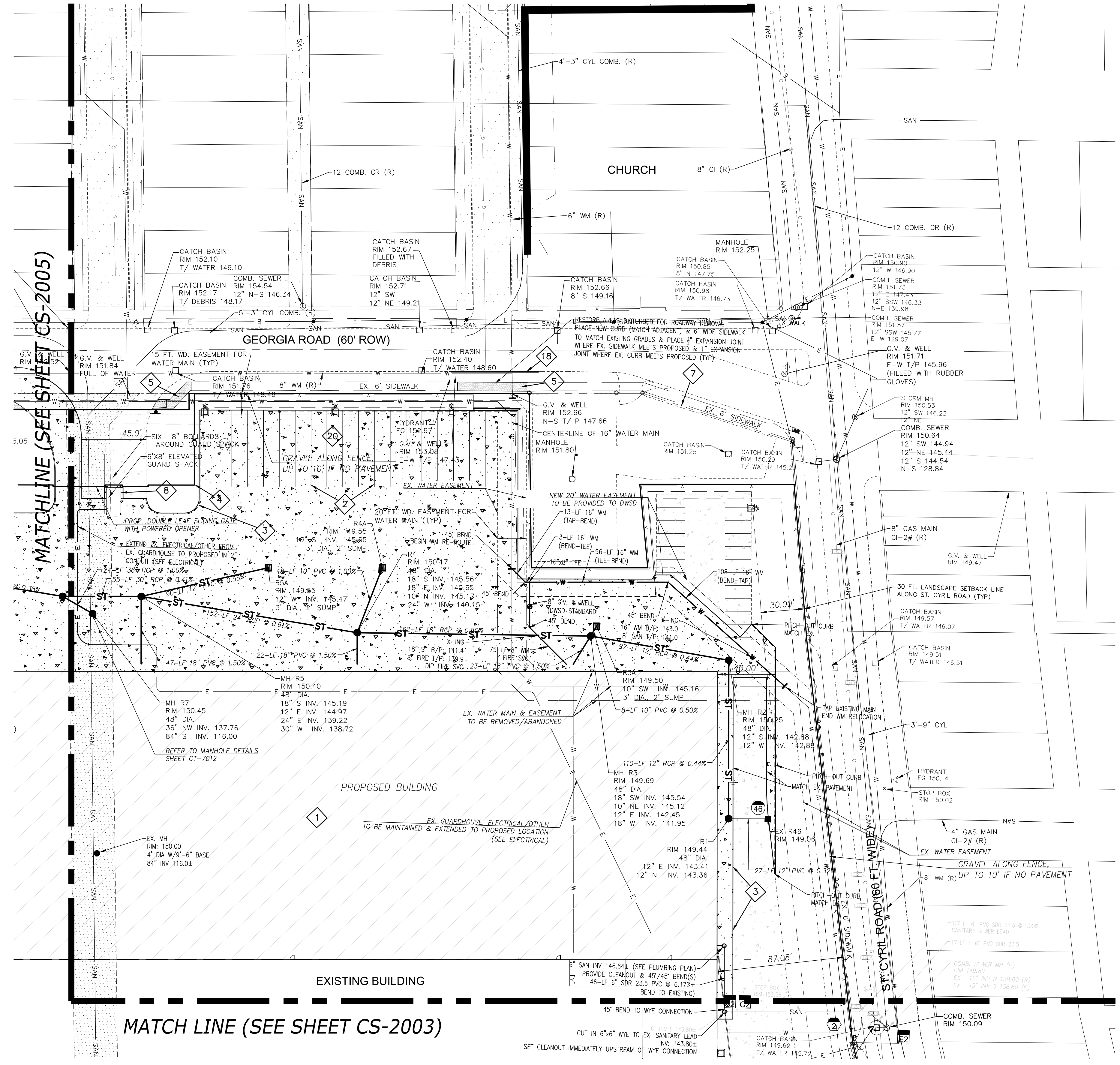
PROJECT  
**FCA GEORGIA STREET PROJECT**  
6836 GEORGIA ST  
DETROIT, MI 48211

PROJECT NO:  
121872

DRAWN BY:	CHECKED BY: <b>F. KHALIL</b>
PROJECT MGR:	APPROVED BY: <b>G. TANNAR</b>

SHEET TITLE  
**SITE UTILITY PLAN**

SHEET NUMBER <b>CS-2004</b>	ISSUE
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**LEGEND**

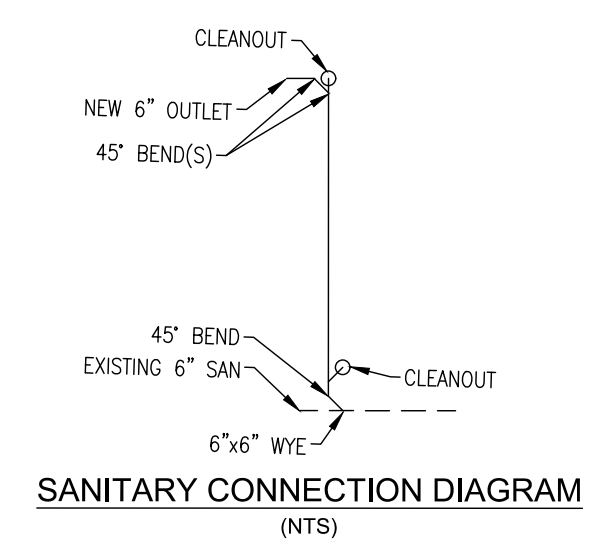
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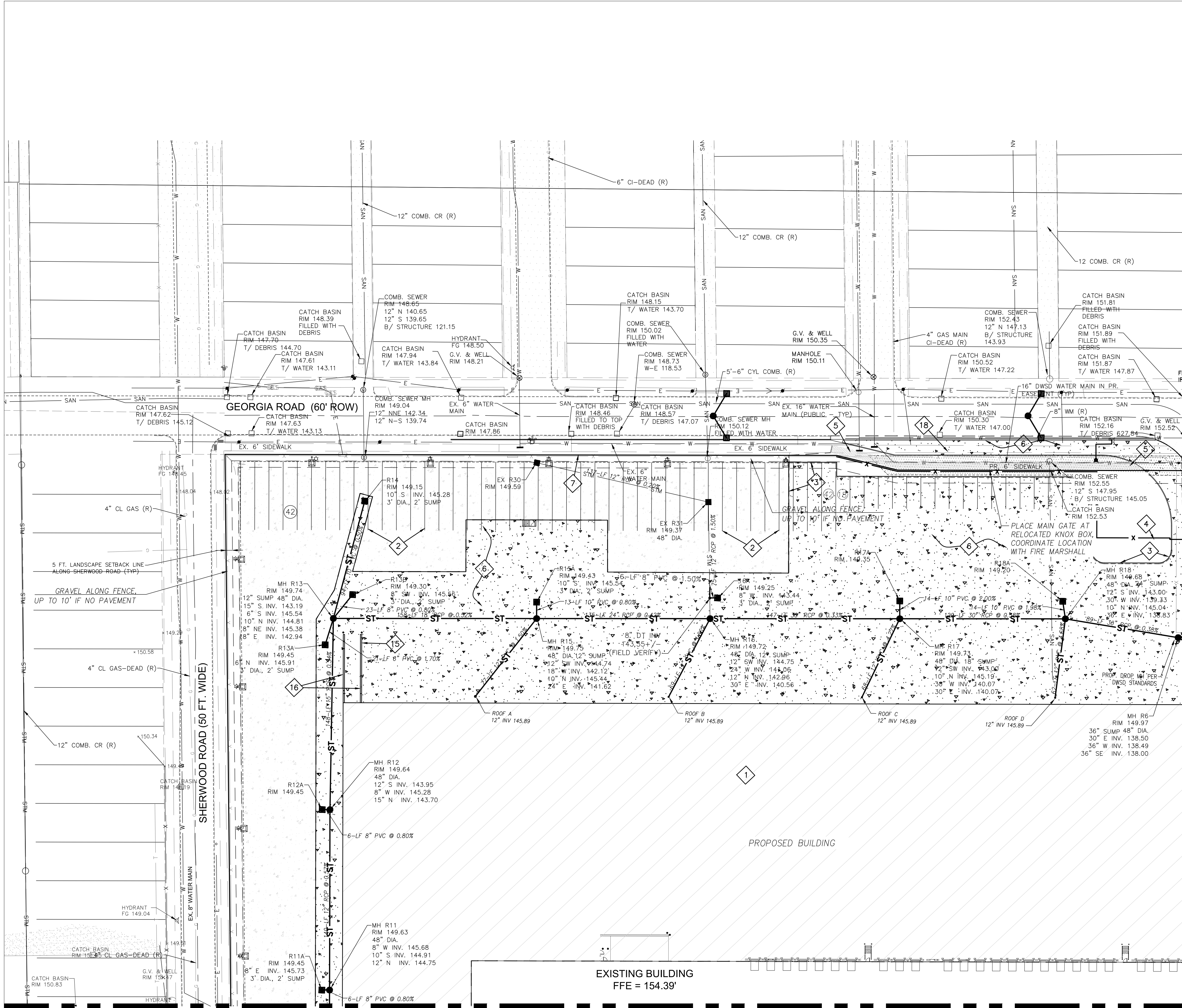
**UTILITY NOTES**

SEE SHEET CX-0006 FOR UTILITY STRUCTURE INFORMATION.

**LEGEND**

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING ELECTRIC LINE
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- PROPOSED DEMO LIMITS
- PROPOSED BUILDING
- EXISTING TELE. MANHOLE
- EXISTING CATCH BASIN
- EXISTING STOP BOX
- EXISTING CONCRETE/ASPHALT PAVEMENT TO BE REMOVED
- EXISTING BUILDING TO BE REMOVED

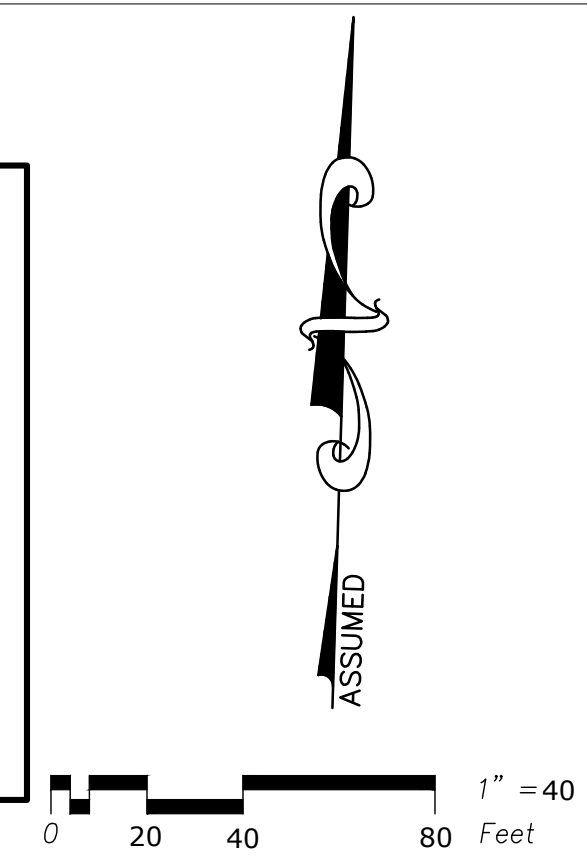
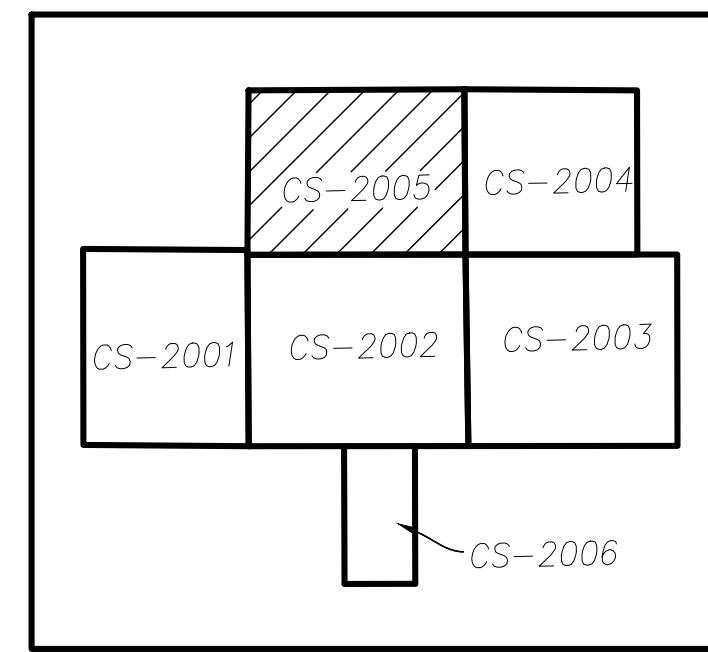




MATCH LINE (SEE SHEET CS-2002)

MATCH LINE (SEE SHEET CS-2004)

INDEX MAP



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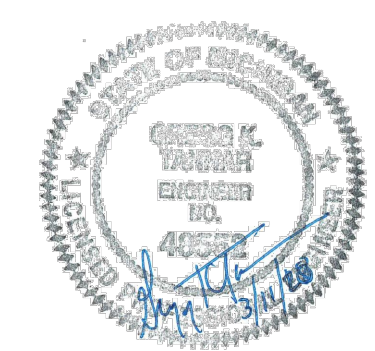
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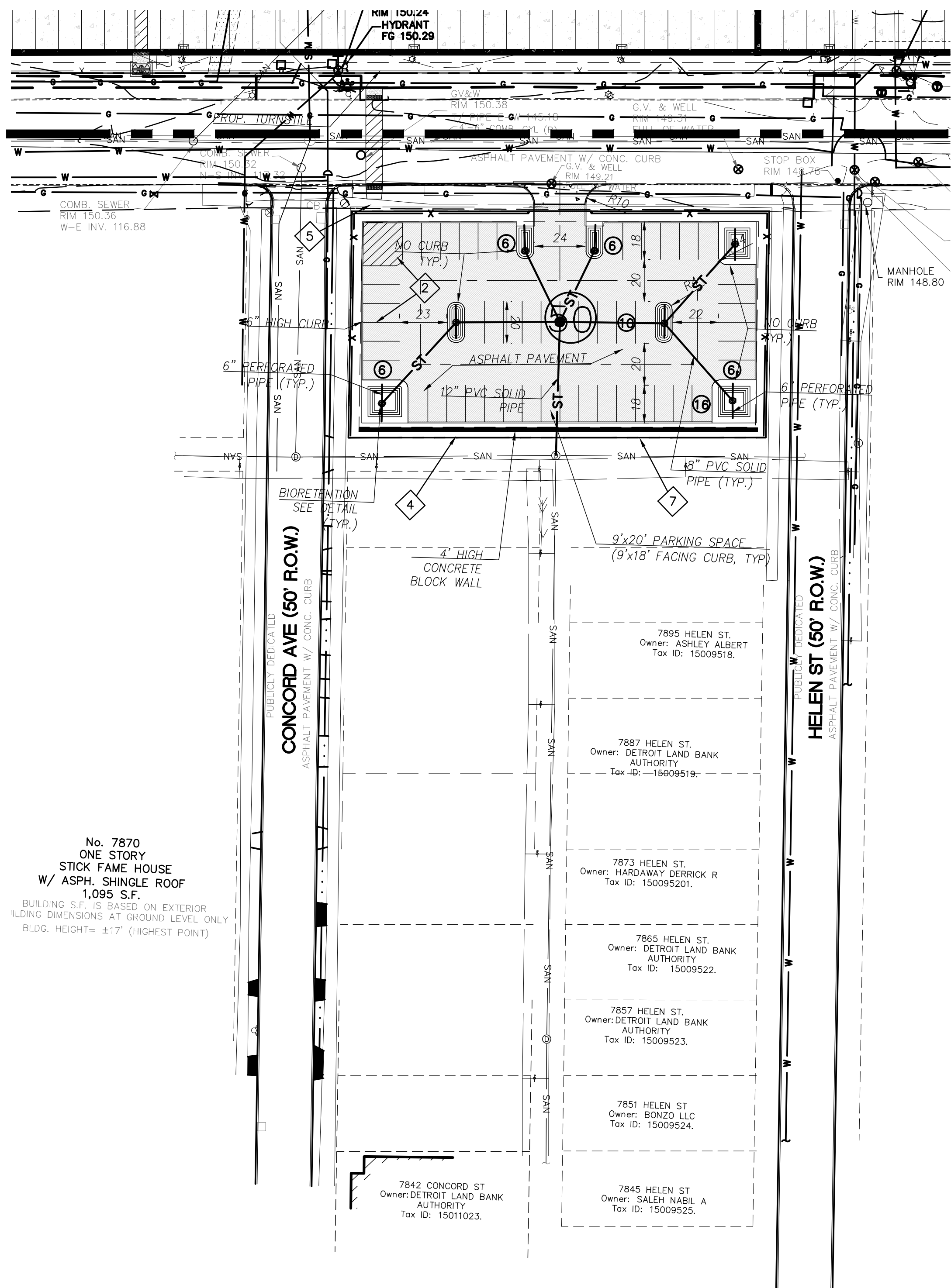
**PROJECT NO:**  
121872

<b>DRAWN BY:</b>	<b>CHECKED BY:</b> F. KHALIL
------------------	---------------------------------

<b>PROJECT MGR:</b>	<b>APPROVED BY:</b> G. TANNAR
---------------------	----------------------------------

**SHEET TITLE**  
SITE UTILITY PLAN

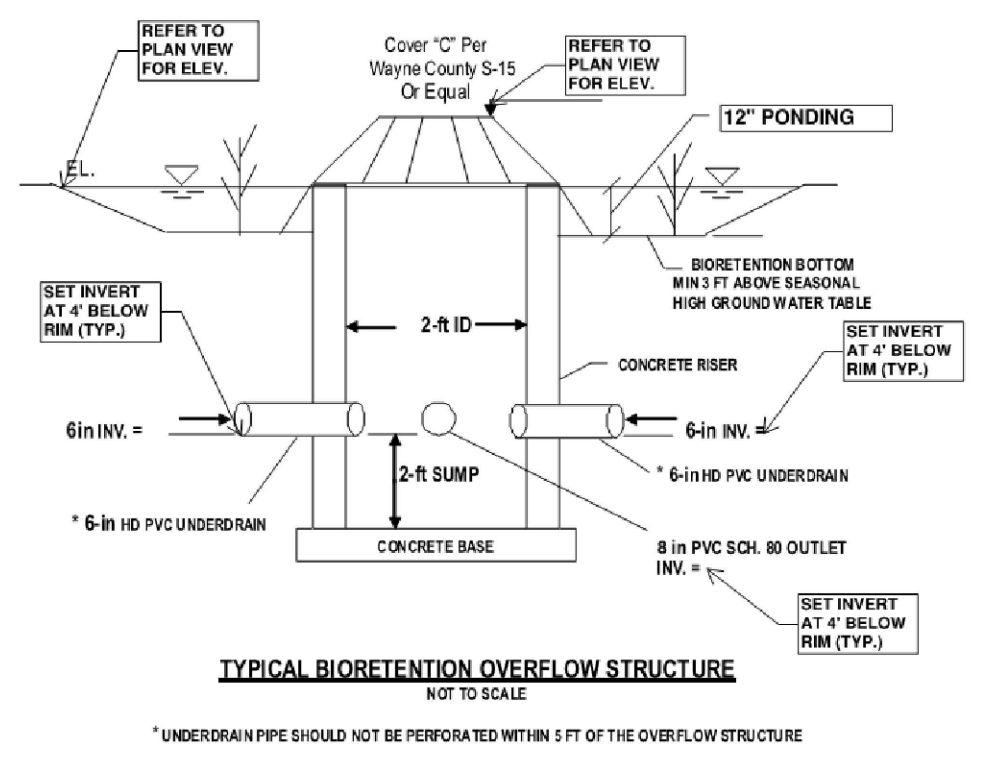
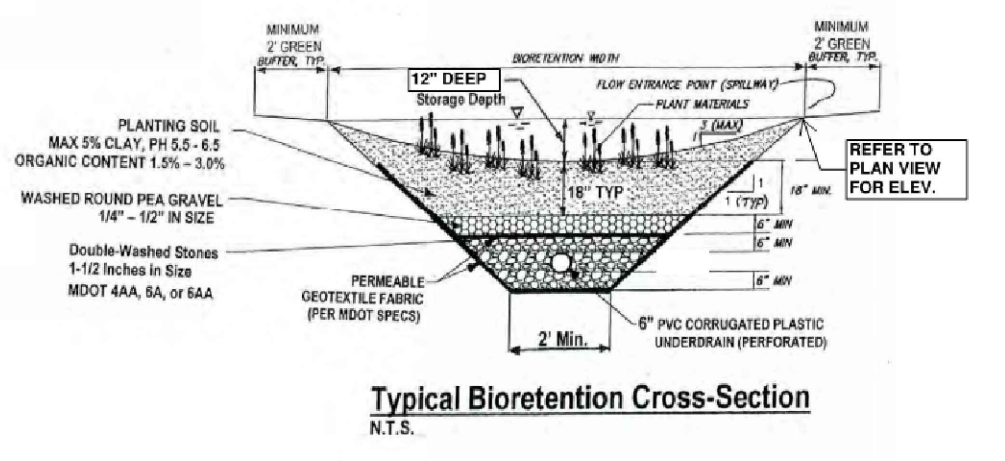
<b>SHEET NUMBER</b>	<b>ISSUE</b>
CS-2005	



No. 7870  
ONE STORY  
STICK FRAME HOUSE  
W/ ASPH. SHINGLE ROOF  
1,095 S.F.  
BUILDING S.F. IS BASED ON EXTERIOR  
BUILDING DIMENSIONS AT GROUND LEVEL ONLY  
BLDG. HEIGHT = ±17' (HIGHEST POINT)

### MATCHLINE (SEE SHEET CS-2002)

AUTO LOT  
TOTAL LOT AREA: 0.49 AC  
TOTAL PAVED AREA: 0.38 AC (78% OF SITE)  
TOTAL NON-PAVED AREA: .11 AC (22% OF SITE)



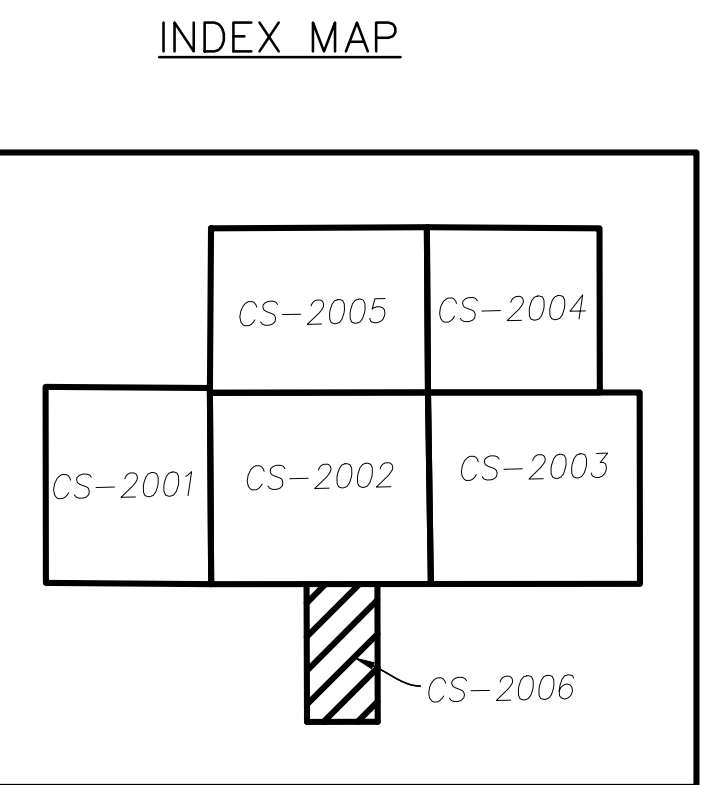
BIRORETENTION VOLUME Main Islands			
	Elevation (FT)	Area (SQ.FT.)	Volume (CU.FT.) $V=H/3*(A1+A2+(A1*A2)^*(1/2))$
Ponding Storage on Top (Maximum 12" Deep)	100	142	118
	99	96	
Storage in Planting Soils and Gravel Layers (Based on 20% Void Space) 2 feet deep	99	96	23
	97	25	
	97	25	
<b>Total Storage Provided by two islands (Cu. Ft.) = 282</b>			

BIRORETENTION VOLUME Front entrance Islands			
	Elevation (FT)	Area (SQ.FT.)	Volume (CU.FT.) $V=H/3*(A1+A2+(A1*A2)^*(1/2))$
Ponding Storage on Top (Maximum 12" Deep)	100	118	97
	99	78	
Storage in Planting Soils and Gravel Layers (Based on 20% Void Space) 2 feet deep	99	78	18
	97	19	
	97	19	
<b>Total Storage Provided by two islands (Cu. Ft.) = 231</b>			

BIRORETENTION VOLUME Rear Islands			
	Elevation (FT)	Area (SQ.FT.)	Volume (CU.FT.) $V=H/3*(A1+A2+(A1*A2)^*(1/2))$
Ponding Storage on Top (Maximum 12" Deep)	100	448	334
	99	232	
Storage in Planting Soils and Gravel Layers (Based on 20% Void Space) 3 feet deep	99	232	91
	96	85	
	96	85	
<b>Total Storage Provided by two islands (Cu. Ft.) = 851</b>			

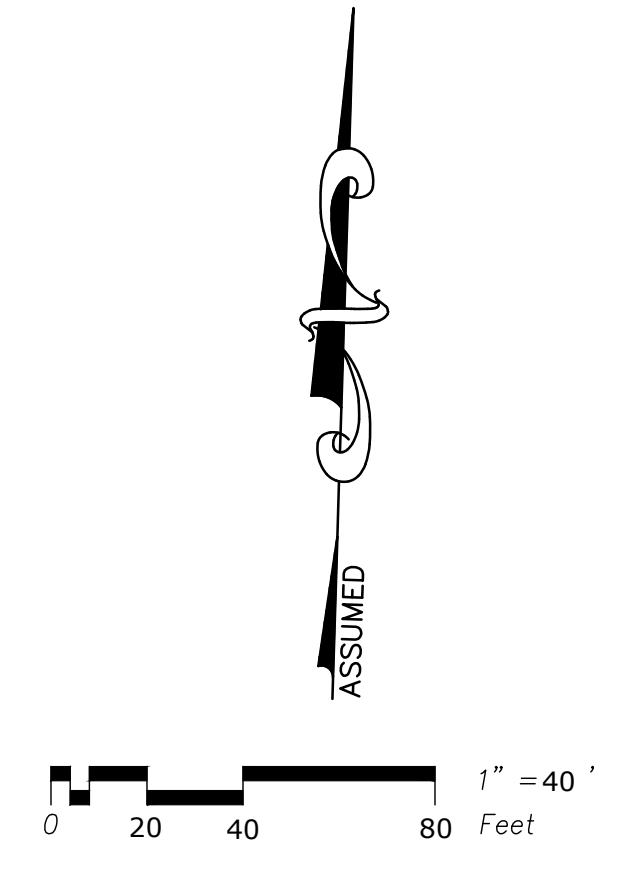
BIRORETENTION VOLUME front side Island			
	Elevation (FT)	Area (SQ.FT.)	Volume (CU.FT.) $V=H/3*(A1+A2+(A1*A2)^*(1/2))$
Ponding Storage on Top (Maximum 12" Deep)	100	365	264
	99	174	
Storage in Planting Soils and Gravel Layers (Based on 20% Void Space) 3 feet deep	99	174	64
	96	51	
	96	51	
<b>Total Storage Provided (Cu. Ft.) = 328</b>			

<b>Total Bioretention Volume Cu. Ft.</b>	<b>1691</b>
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PROJECT MGR:  
APPROVED BY:  
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