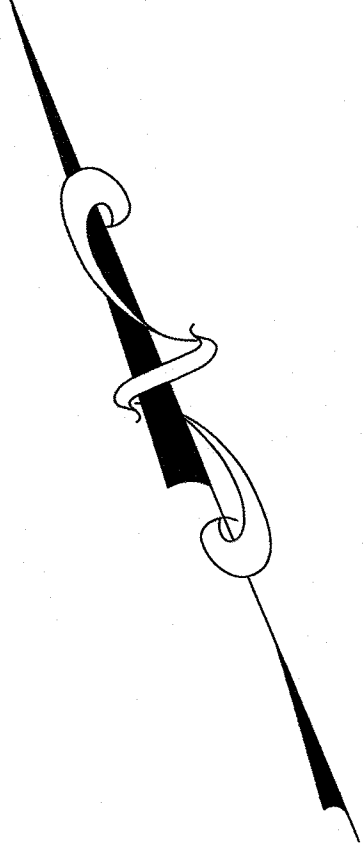
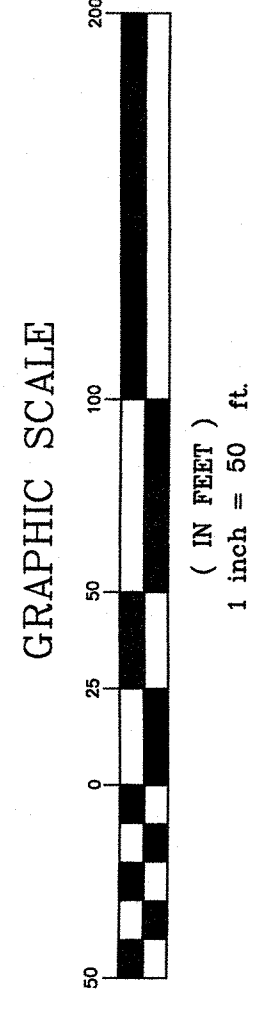




$R=61.06'$
 $L=40.017'$
(DEED 40.05')
 $CH=S44^{\circ}30'32.5"W$
 $CH.L=39.305'$
 $\Delta=37^{\circ}32'59"$



REFERENCES:
1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 155 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL PROSSMAN P.L.L.C. DATED 4/18/2020.

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A BASED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

OVERALL LAYOUT SHEET

Designer: JMP
Checker: JMP
Checked By: JMP
Project No.: 19-245
Scale: 1"=50'
Sheet:

PETRY
ENGINEERING, LLC
100 PARKWAY DRIVE, SUITE 200
ROSELAND, NJ 07068
TEL: 973-261-1234
FAX: 973-261-1235
WWW.PETRYENGINEERING.COM

J. MICHAEL PETRY-PE-PP-RA
NJ PROFESSIONAL ENGINEER, No. 34992

SP-2

DATED: 10/20/2021

PLEASANT VALLEY WAY



SIGN LEGEND	
	R1-1 STOP SIGN
	R7-8 & 8B HANDICAP PARKING
	R7-111 ELECTRIC VEHICLE PARKING

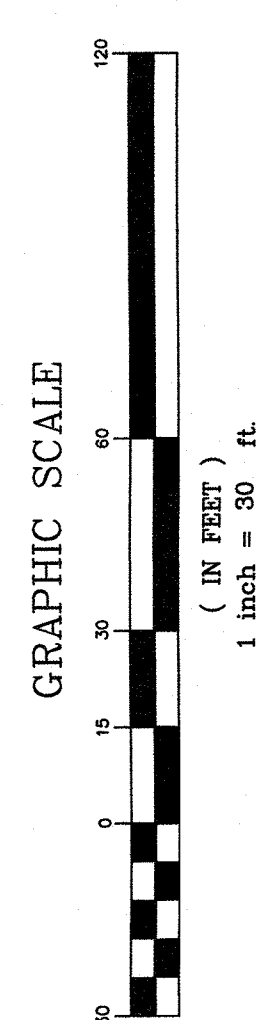
266 SURFACE LEVEL SPACES
(INCLUDES 38 EV SPACES)

NOTE:

1. ELECTRIC VEHICLE PARKING SPACES TO BE CONSTRUCTED AS PERMITTED BY THE CITY OF CHICAGO. THE REMAINING SPACES SHALL BE CONSTRUCTED WITH THE INITIAL PARKING FOR CONSTRUCTION. WITHIN 3 YEARS OF ISSUANCE OF C.O. AN ADDITIONAL 1/3 OF THE SPACES SHALL BE FUNCTIONAL. WITHIN 6 YEARS THE FINAL 1/3 SHALL BE CONSTRUCTED.
2. ELECTRICAL CONDUITS FOR ALL EV SPACES TO BE INSTALLED BEFORE PAVEMENT IS CONSTRUCTED.

EV INSTALLATION SCHEDULE:

(A) 20 EV STATIONS INSTALLED BEFORE C.O. (20 OUTSIDE)
 (B) 20 EV STATIONS INSTALLED WITHIN 3 YEARS OF C.O. (12 OUTSIDE + 8 GARAGE)
 (C) 18 EV STATIONS INSTALLED WITHIN 6 YEARS OF C.O. (6 OUTSIDE + 12 GARAGE)



REFERENCES:

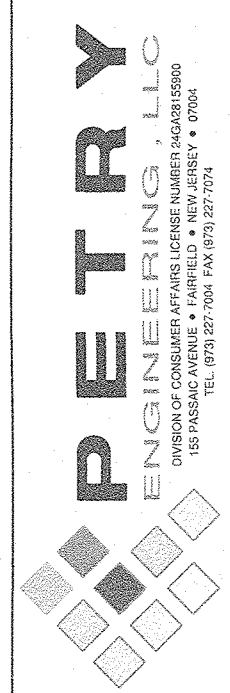
1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL FIRSCHMAN P.L.S. DATED 4/18/2000.

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

2	REVISED PER ZONING BOARD ENGINEER'S COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

LAYOUT SHEET



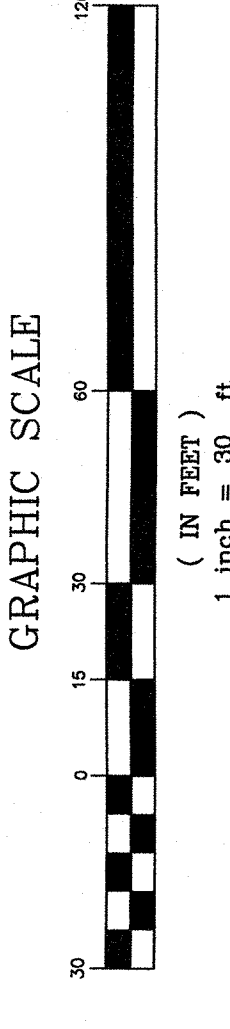

J. MICHAEL PETRY-PE, PP, RA

PLEASANT VALLEY WAY

AVERAGE GRADE CALC.

A	414.50
B	414.50
C	414.50
D	414.00
E	413.60
F	413.60
G	414.50
H	417.00
I	420.00
J	423.50
K	423.50
L	422.00
M	423.50
N	424.00
O	427.20
P	427.20
Q	427.20
R	427.20
S	424.70
T	426.50
U	427.20
V	427.20
W	427.20
X	427.20
Y	427.20
Z	427.20
AA	427.20
AB	427.20
AC	427.20
AD	427.20
AE	427.20
AF	427.20
AG	427.20
AH	421.50
AI	412.00
AJ	412.50
AVG.	422.56

- NOTE.
1. PHASE 1 ROOF LEADERS TO TIE INTO SUBSURFACE BASIN #1A.
 2. PHASE 2 ROOF LEADERS TO TIE INTO SUBSURFACE BASIN #1B.
 3. PHASE 4 ROOF LEADERS TO TIE INTO SURFACE BASIN #1.



- REFERENCES:
1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED, "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 155 PLEASANT VALLEY, NEW JERSEY," PREPARED BY SCOTT VAPIANO, ESQ., COUNTY OF ESSEX, NEW JERSEY, DATED 4/18/2020.
 2. "SPRINKLING MAP OF DAUGHTERS OF ISRAEL CAMPUS 155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VAPIANO AND DATED 10/06/2021.

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

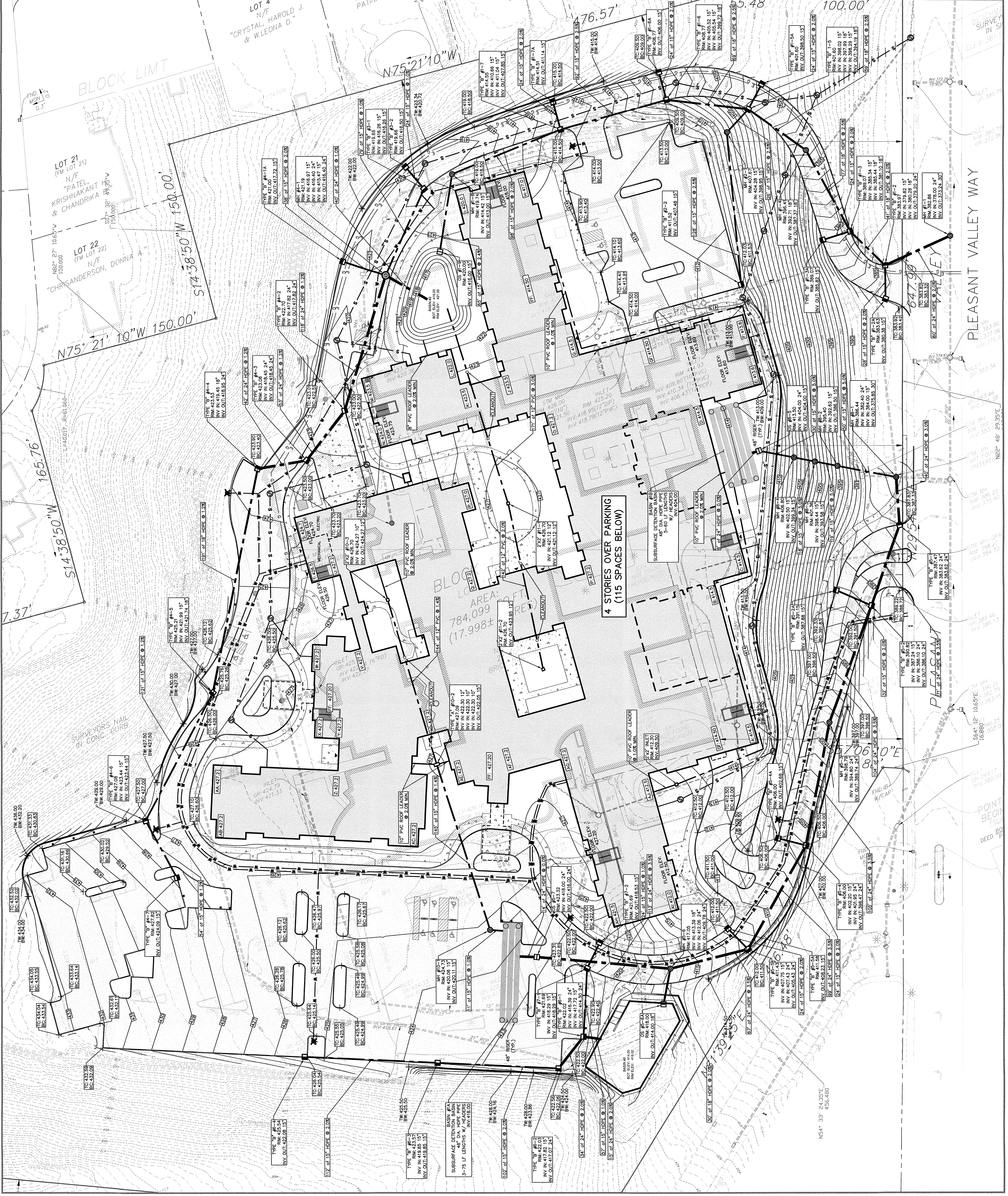
REVISION	DESCRIPTION	DATE	BY
2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2023	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2023	JMP

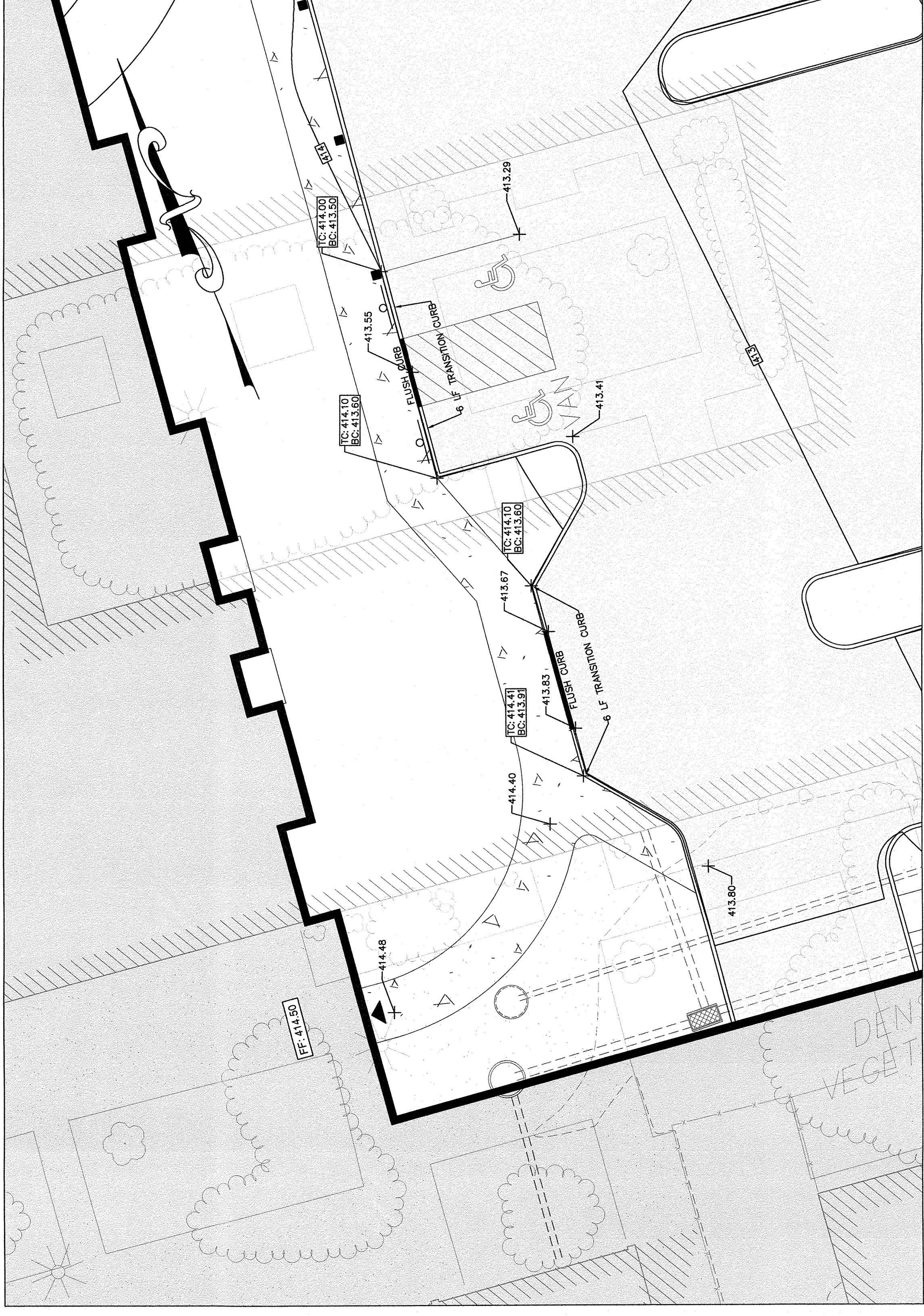
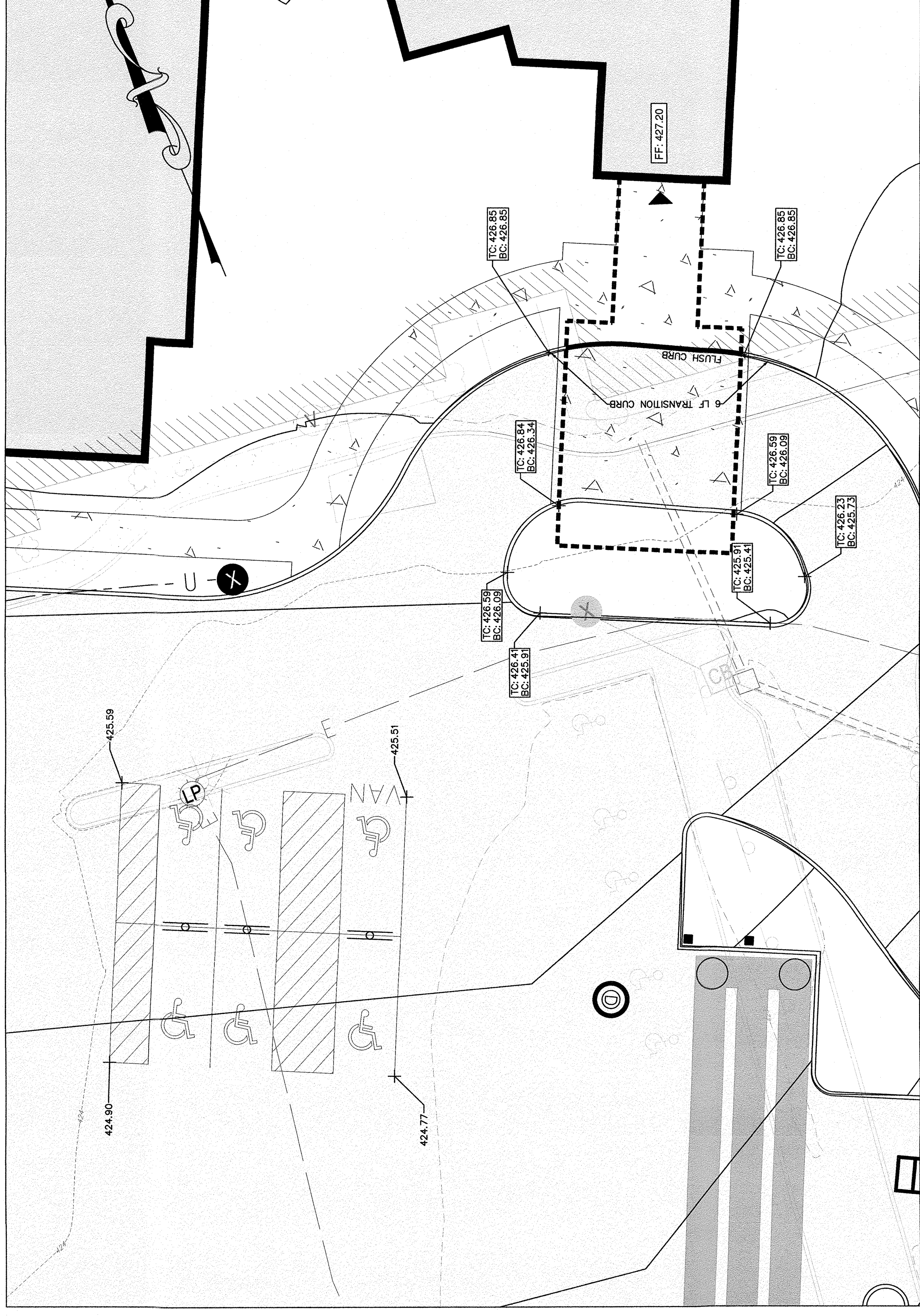
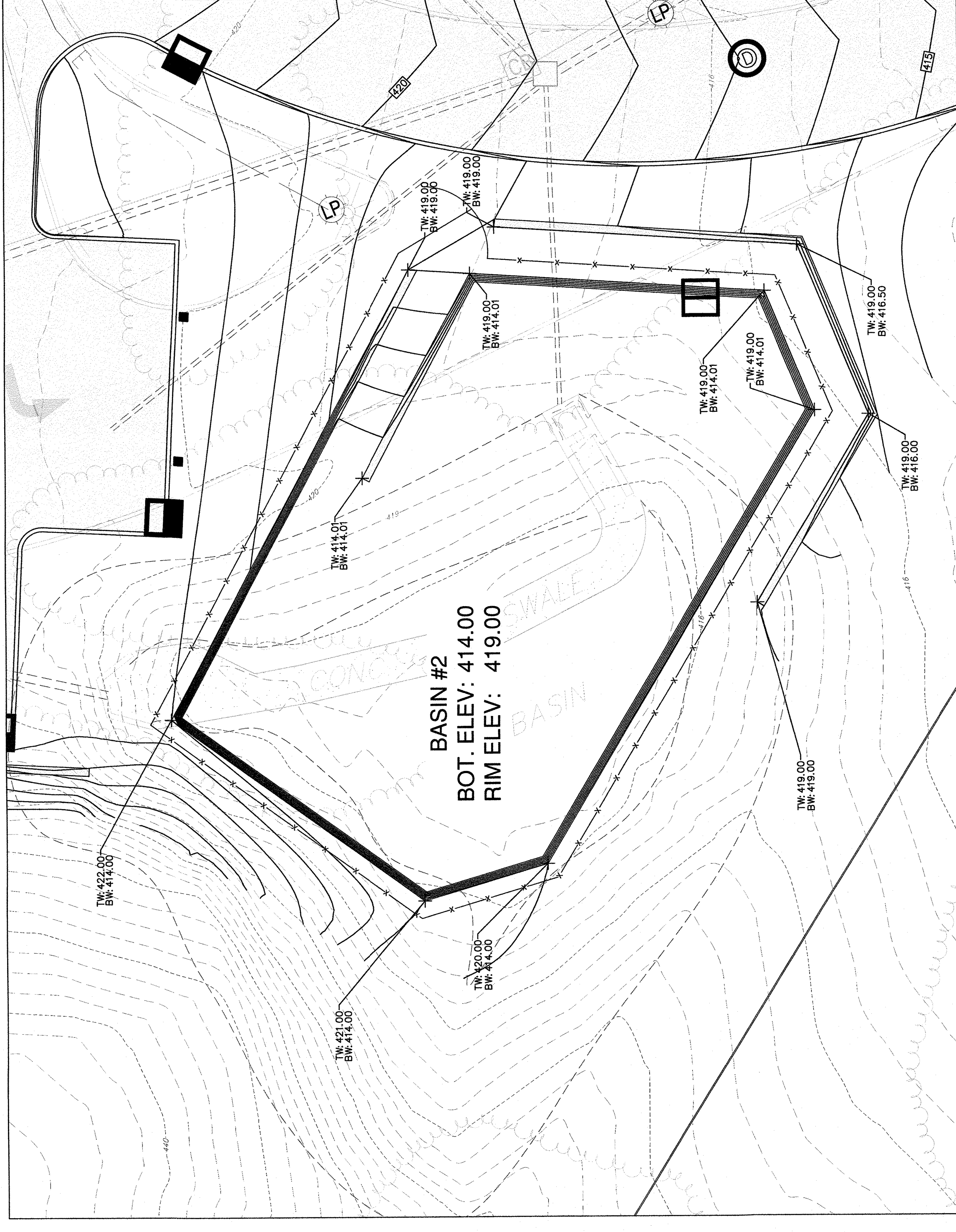
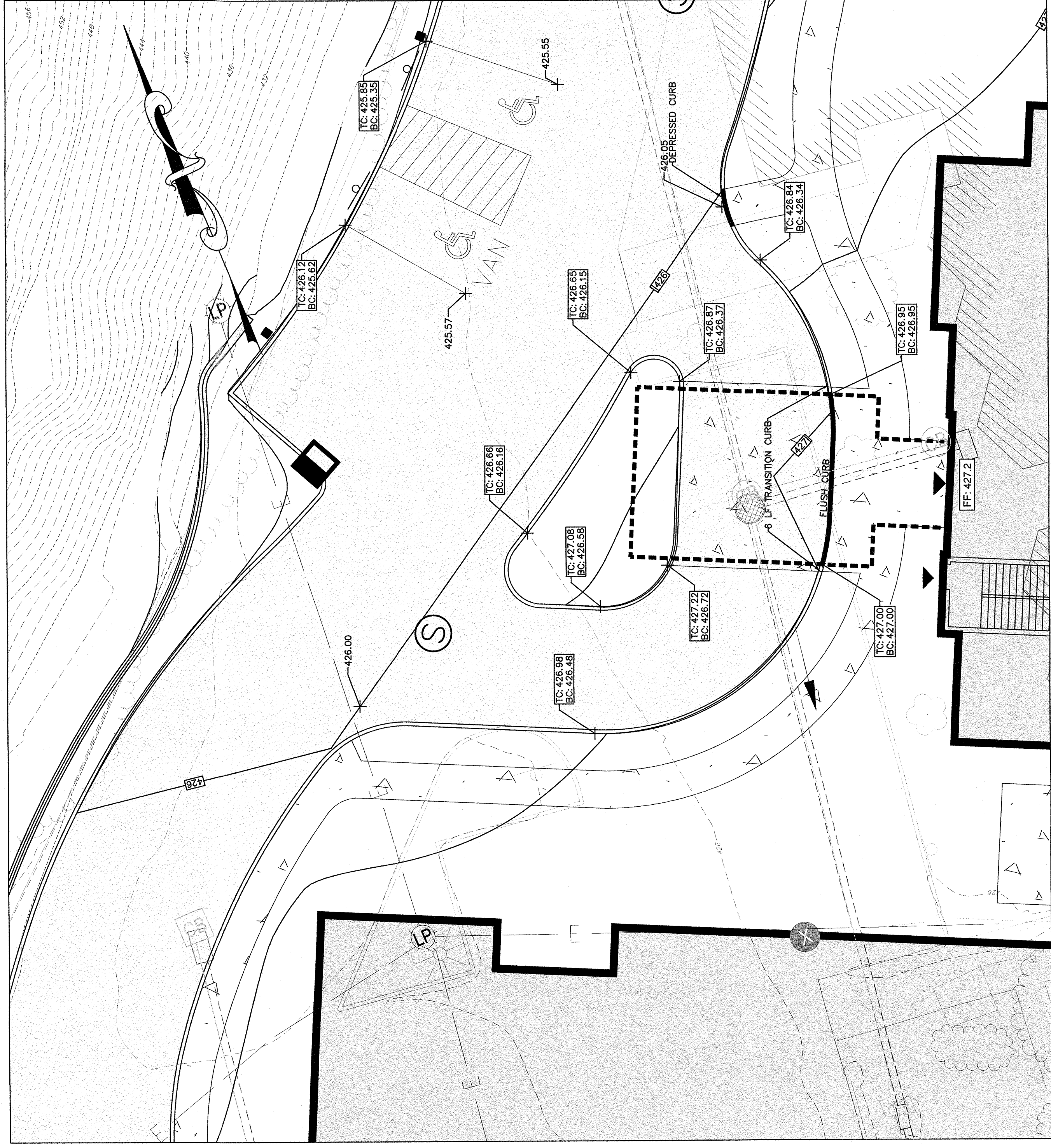
PREPARED FOR
DAUGHTERS OF ISRAEL, INC
155 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

GRADING AND DRAINAGE PLAN

Petry
ENGINEERING, LLC
155 PLEASANT VALLEY WAY
WEST ORANGE, NJ 07092
TEL: 973.391.1500
WWW.PETRYENGINEERING.COM

Designer: JMP
Checker: JMP
Checked By: JMP
Project No.: 19085
Scale: 1"=30'
Sheet:
J. MICHAEL PETRY-PE, PP, RA
DATE: 11/03/2023
SP-4



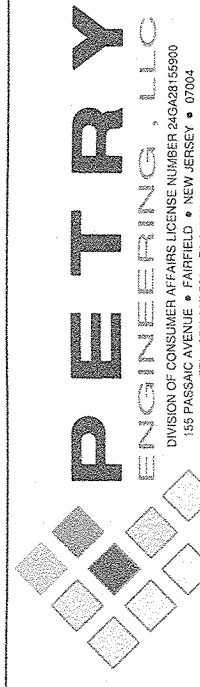


- REFERENCES:**
1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY LOT 12 BLOCK 177, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL FIRCHMAN P.L.S. DATED 01/06/2021.
 2. SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "GPS FINDINGS MAP OF DAUGHTERS OF ISRAEL CAMPUS 1155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VAPIANO AND DATED 10/06/2021.

2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/01/2022	JMP
REVISION	DESCRIPTION	DATE	BY

DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

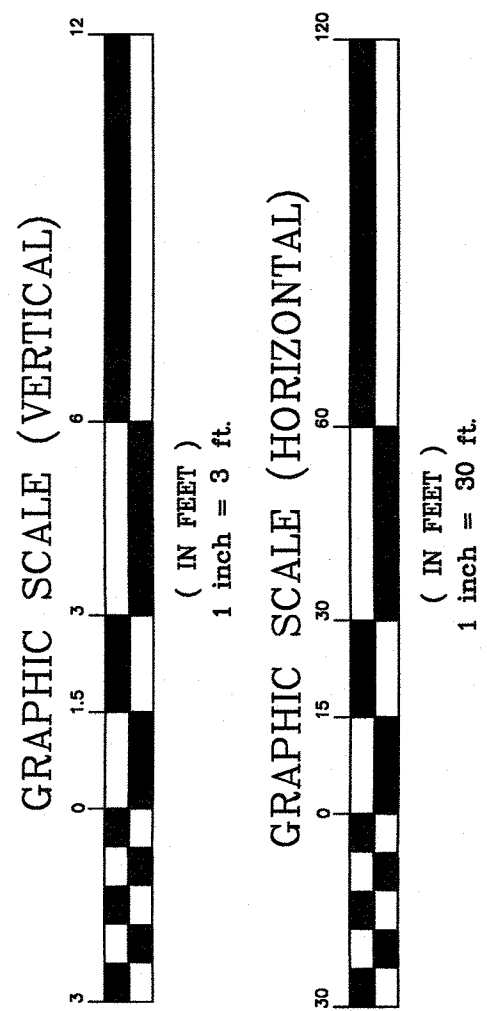
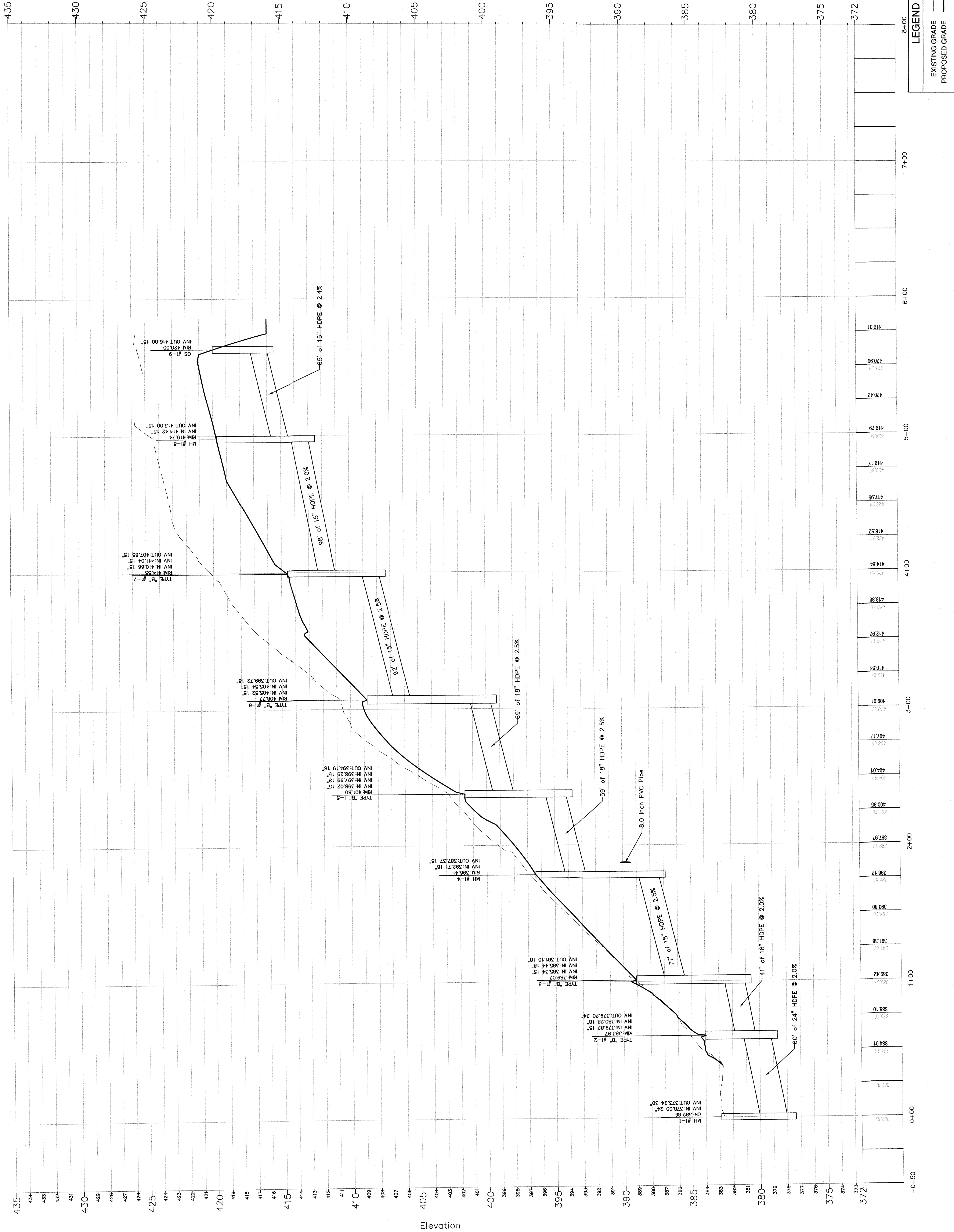
DETAILED GRADING




J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. No. 36662
DATED 10/25/2021

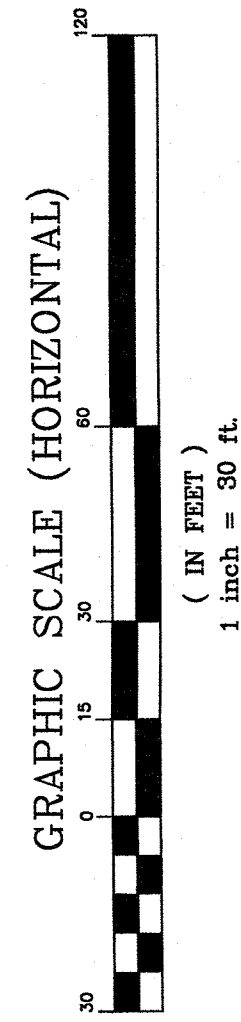
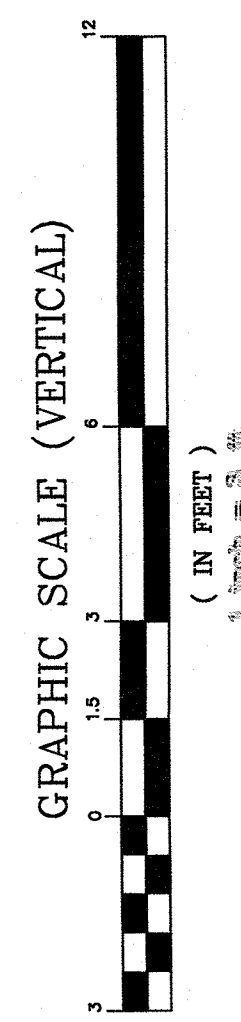
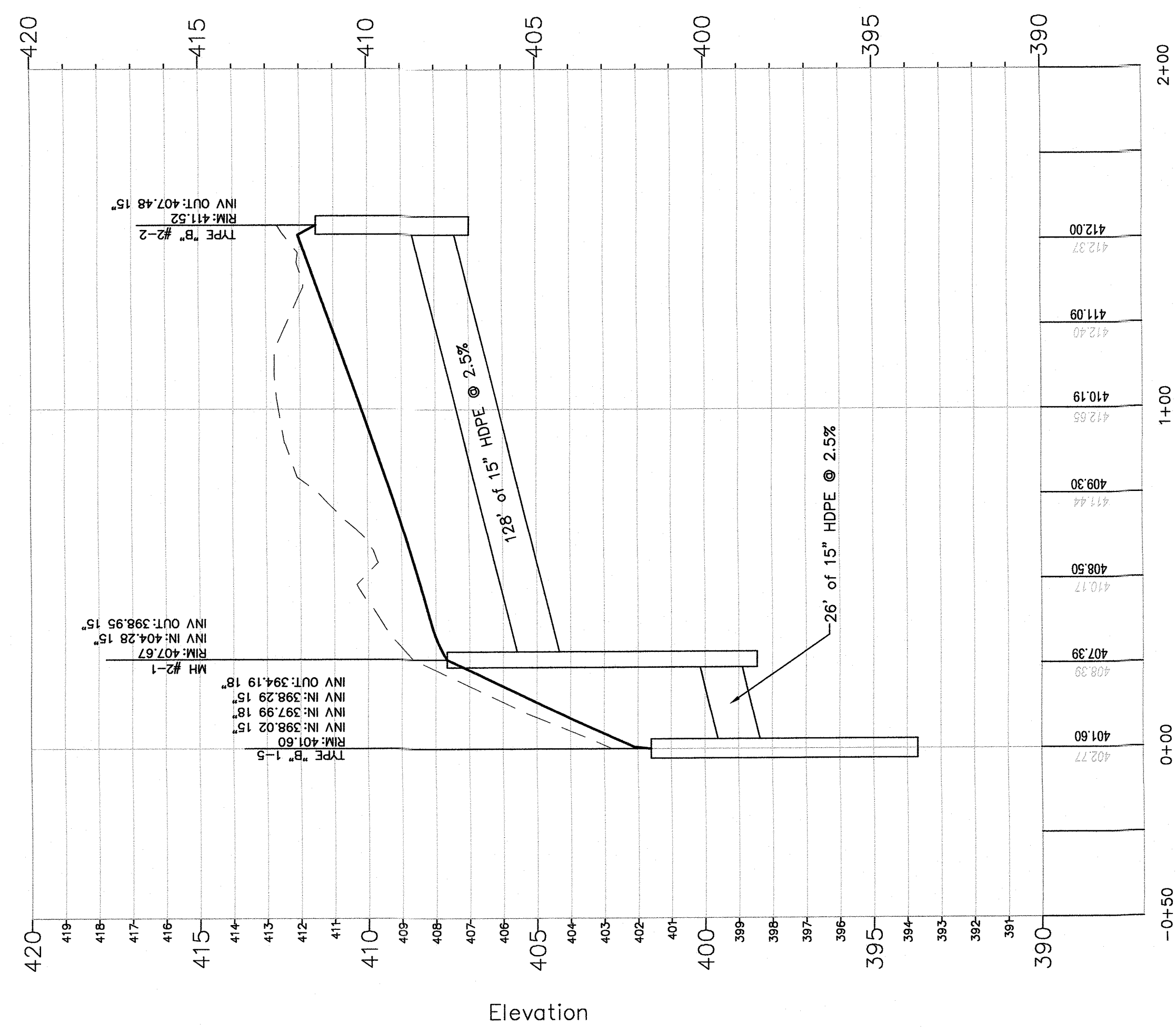
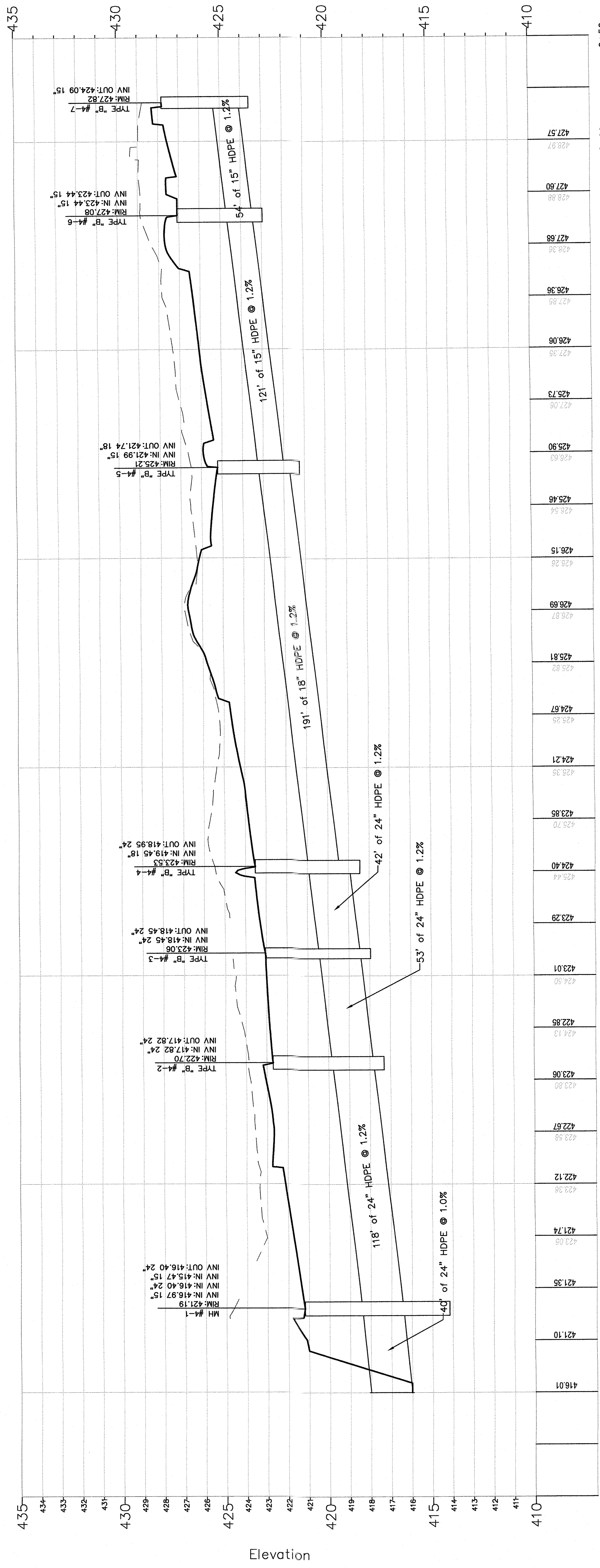
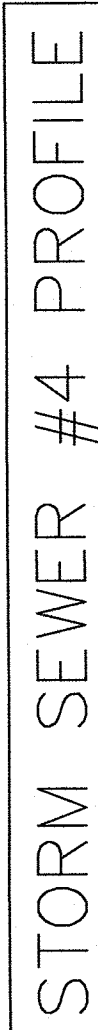
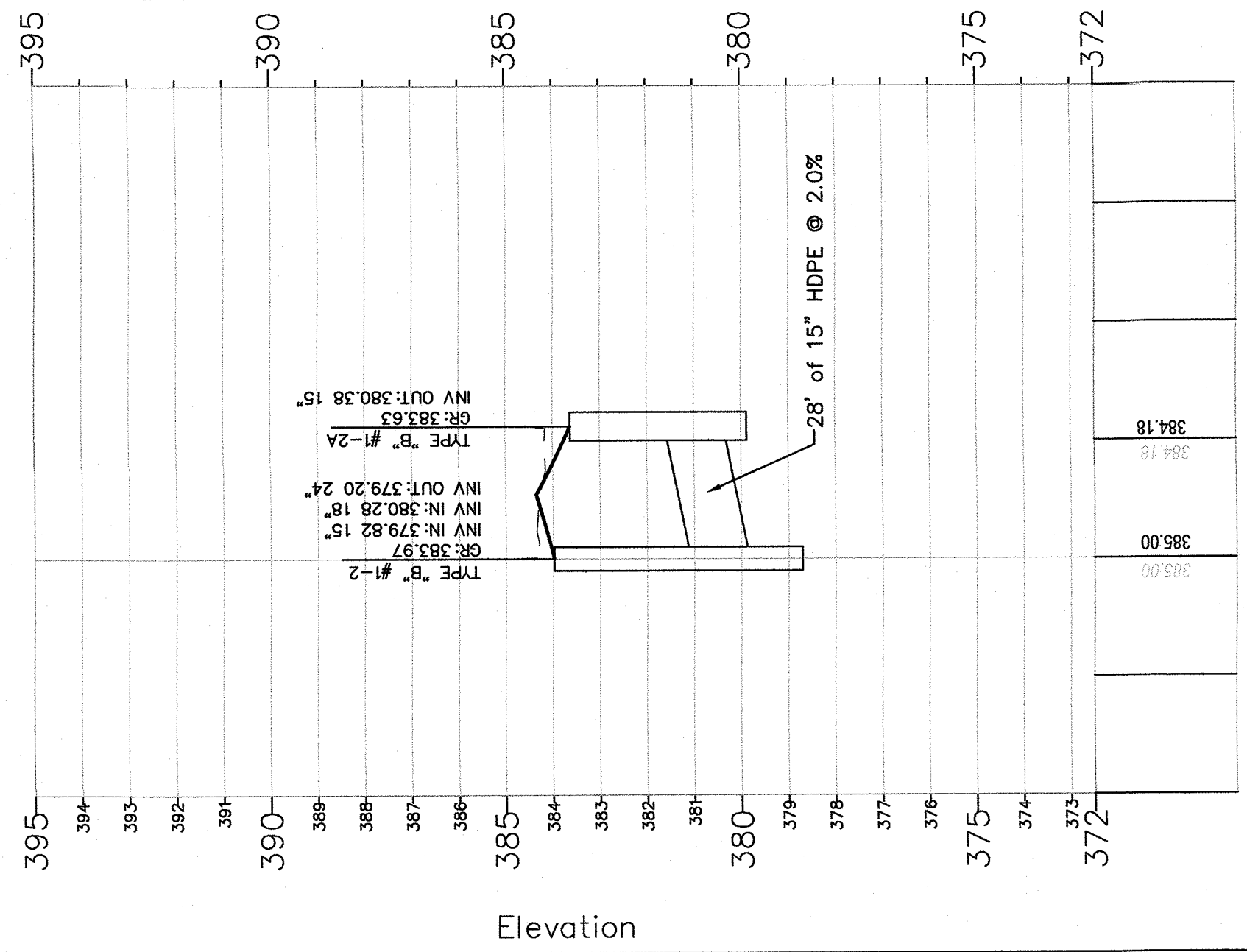
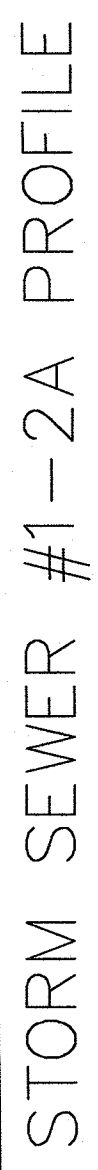
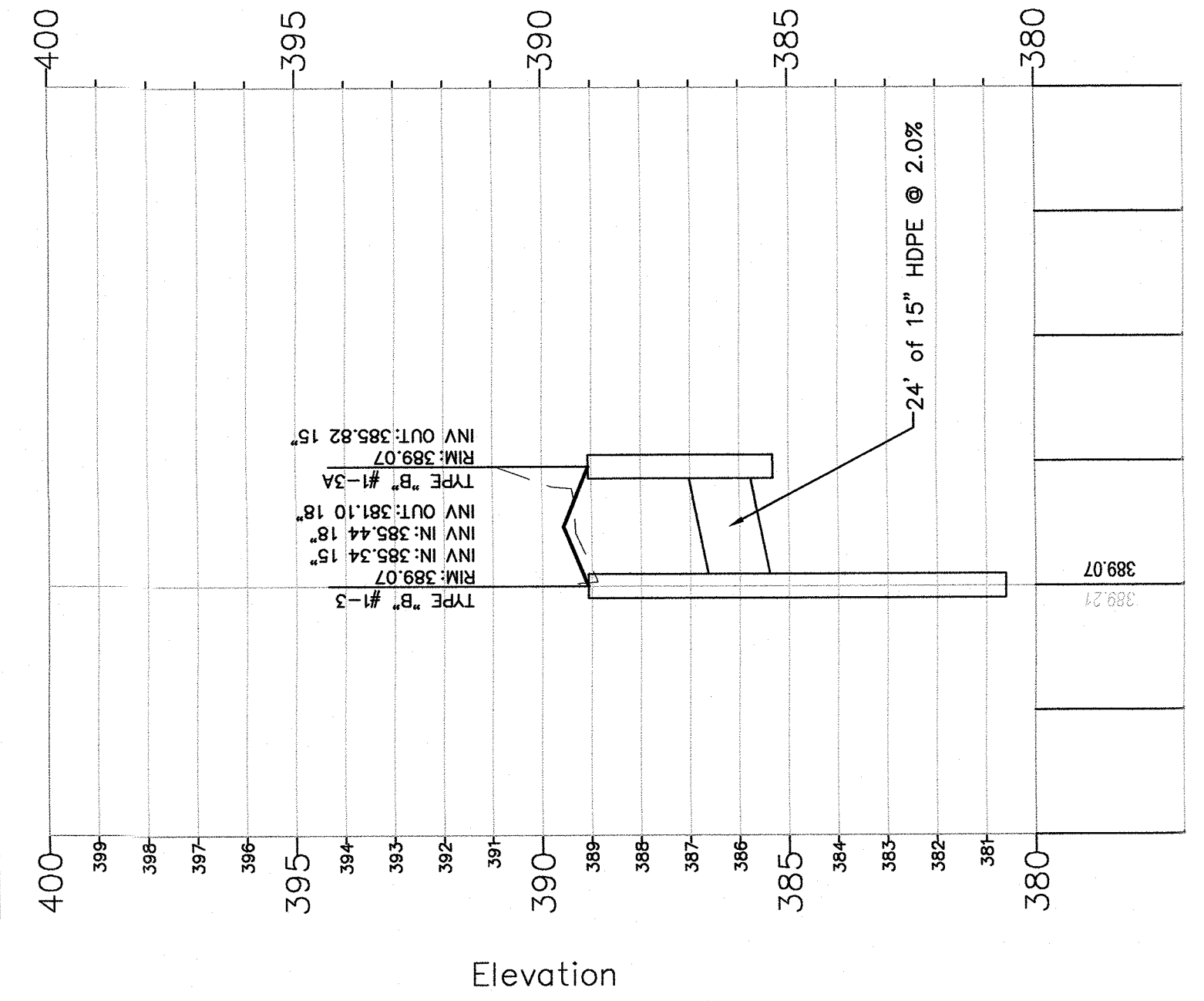
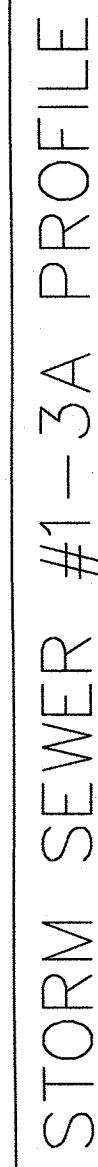
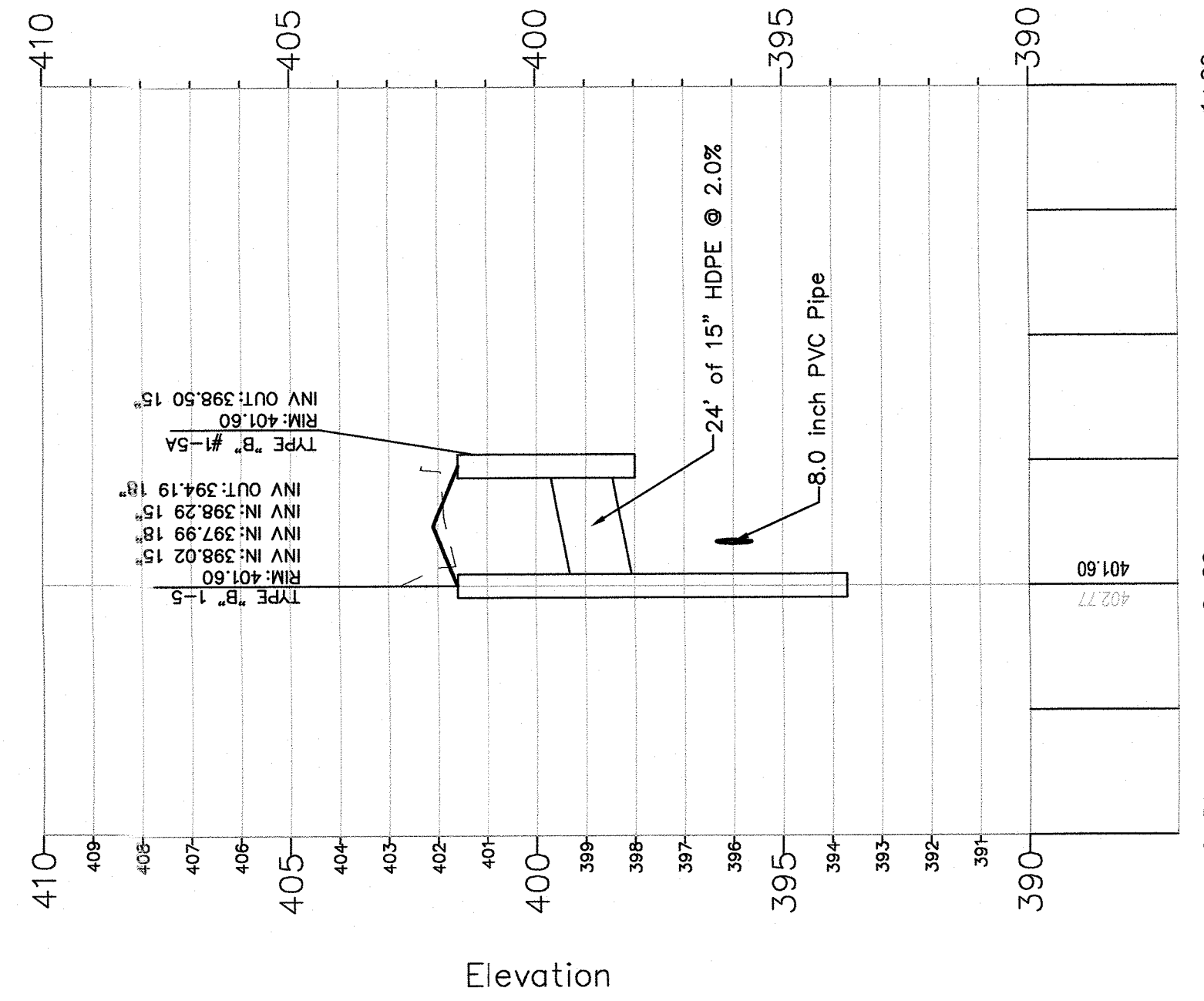
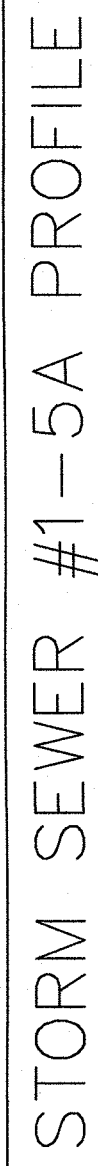
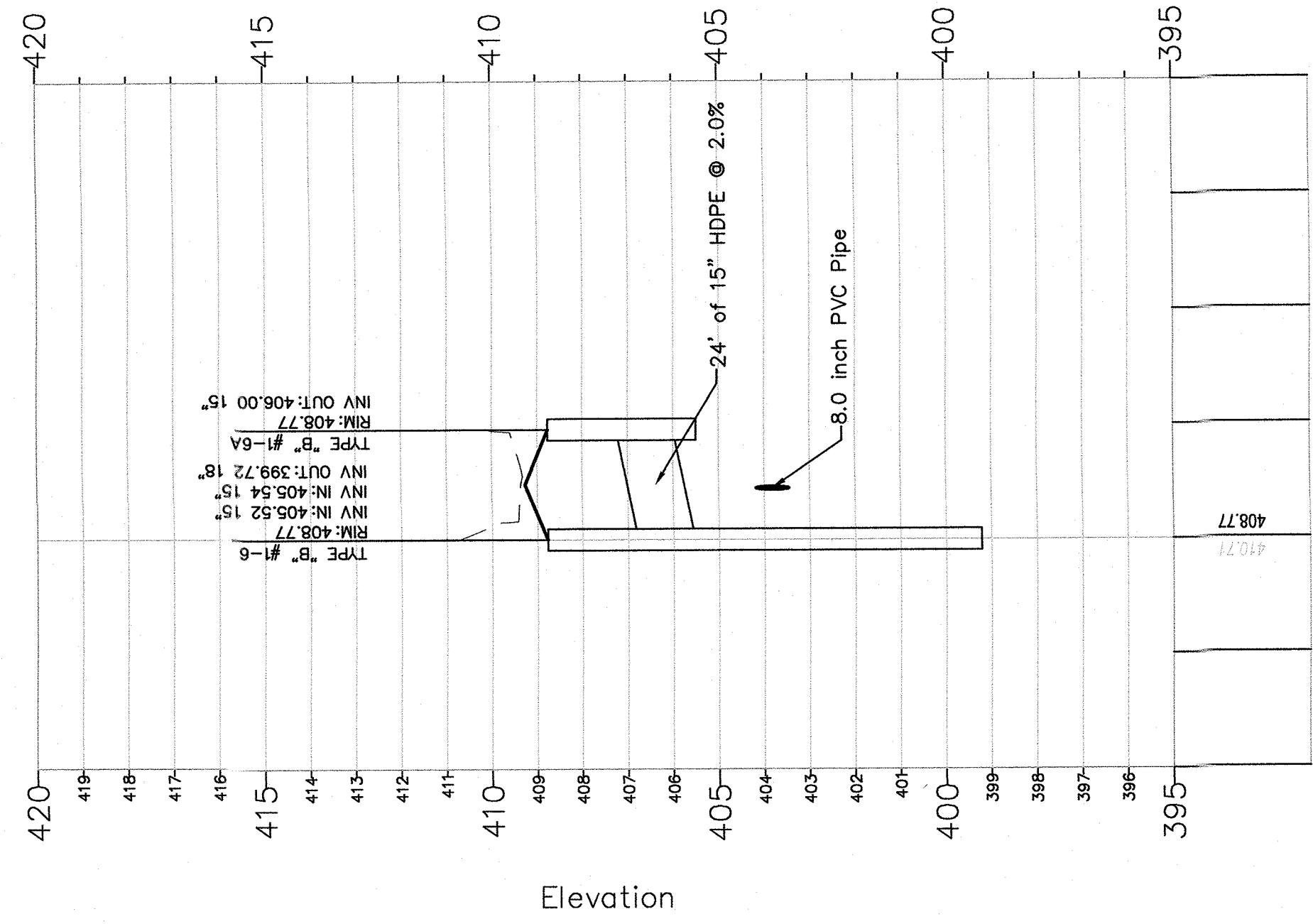
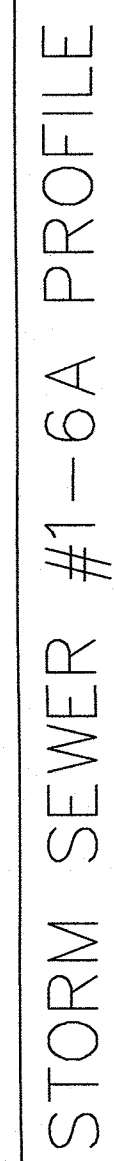
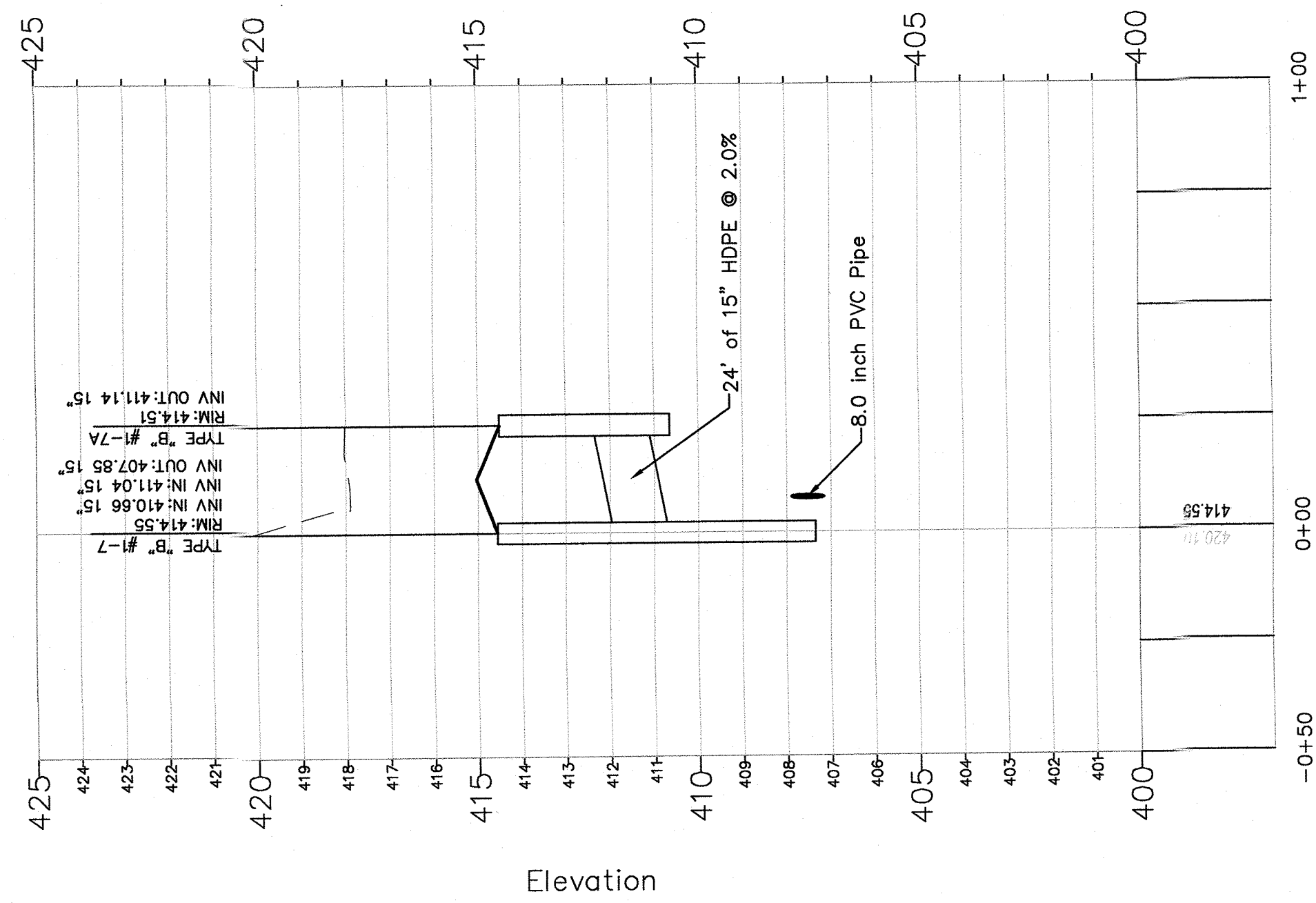
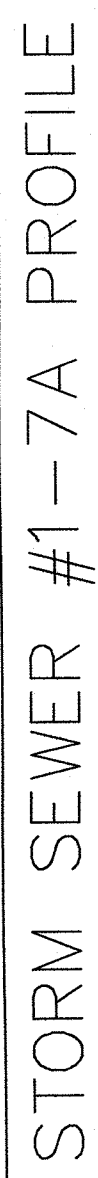
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

STORM SEWER #1 PROFILE



2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	06/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1155 PLEASANT VALLEY WAY BLOCK 171 LOT 12 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
STORM SEWER PROFILES			
J. MICHAEL PETRY-PE, P.P. RA N.J. PROFESSIONAL ENGINEER NO. 36962 DATED: 10/26/2021			
SP-7			

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.



LEGEND

— EXISTING GRADE
— PROPOSED GRADE

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

PREPARED FOR
DAUGHTERS OF ISRAEL, INC

1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

STORM SEWER PROFILES

DATE

10

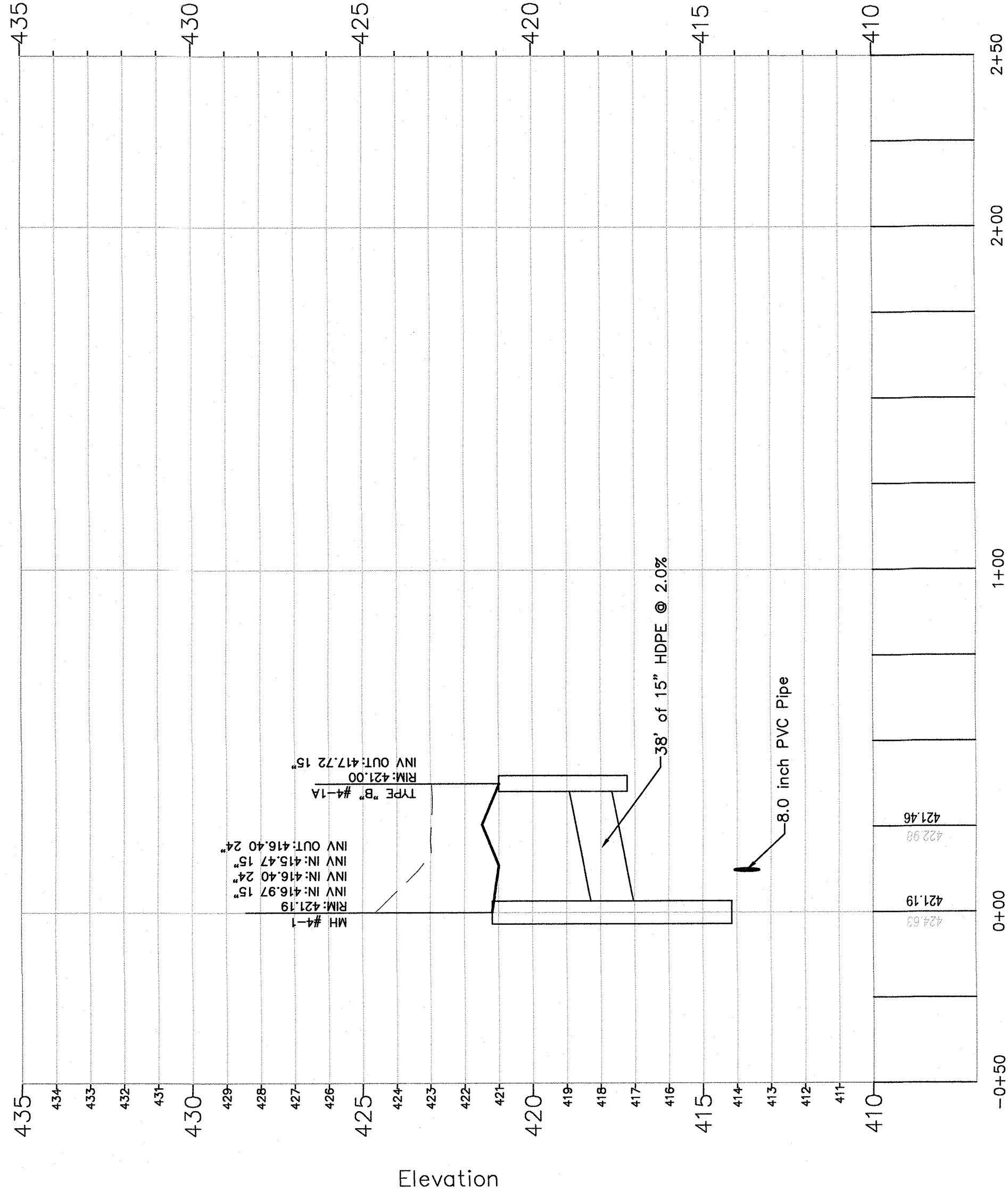
BY THE

STORM SEWER PROFILES

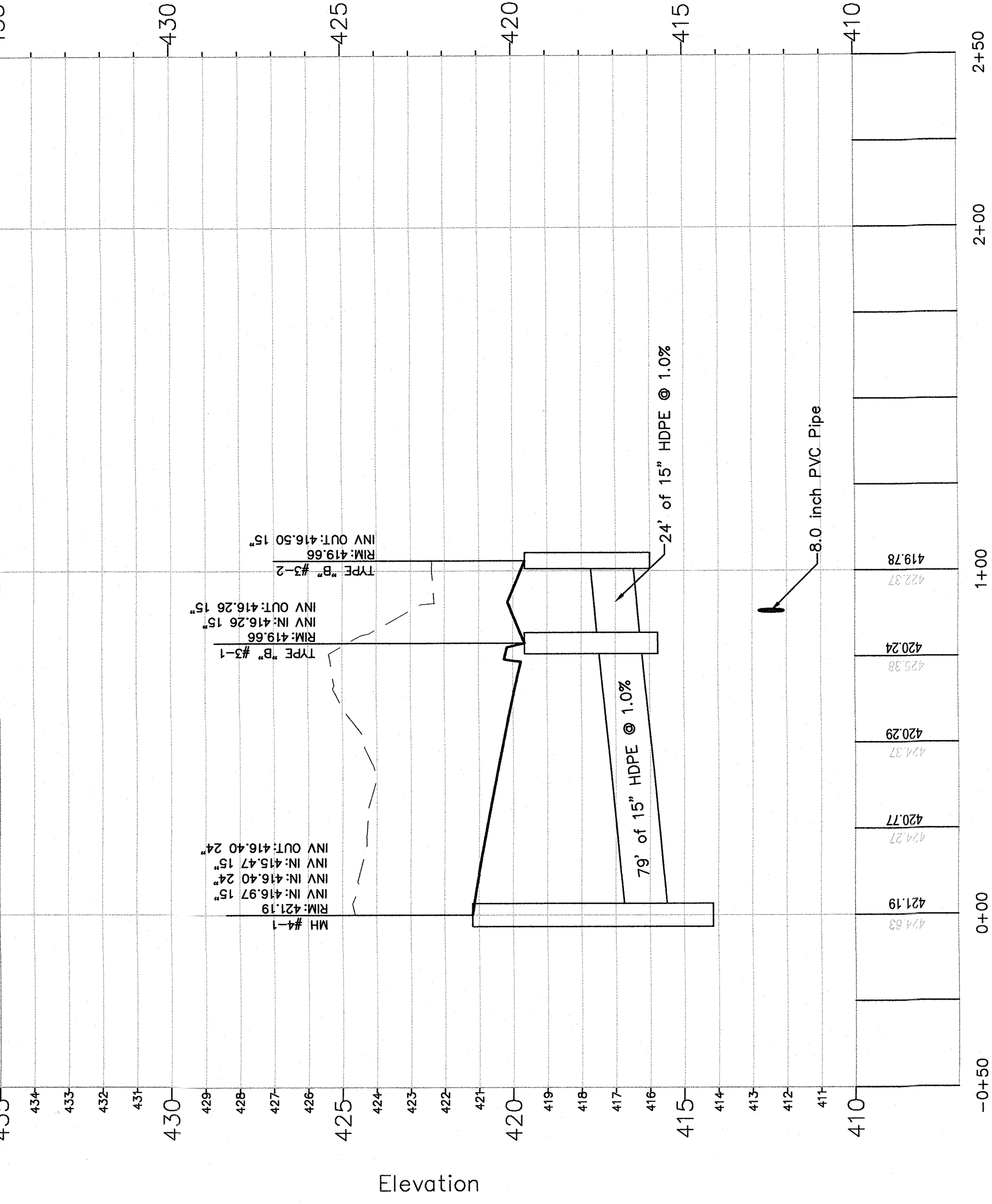
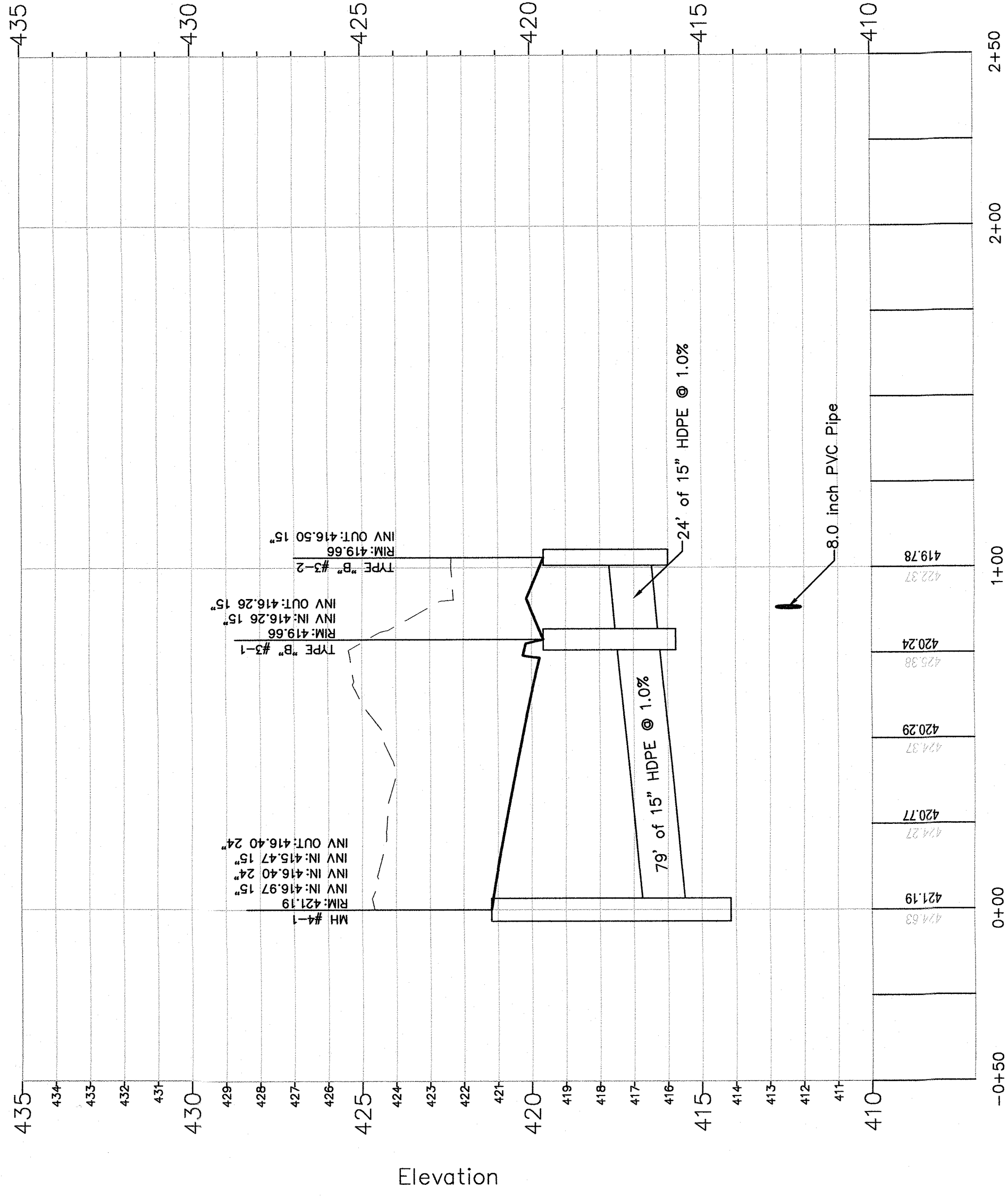
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					Sheet:
					

J. MICHAEL PETRY-PE, PP, RA

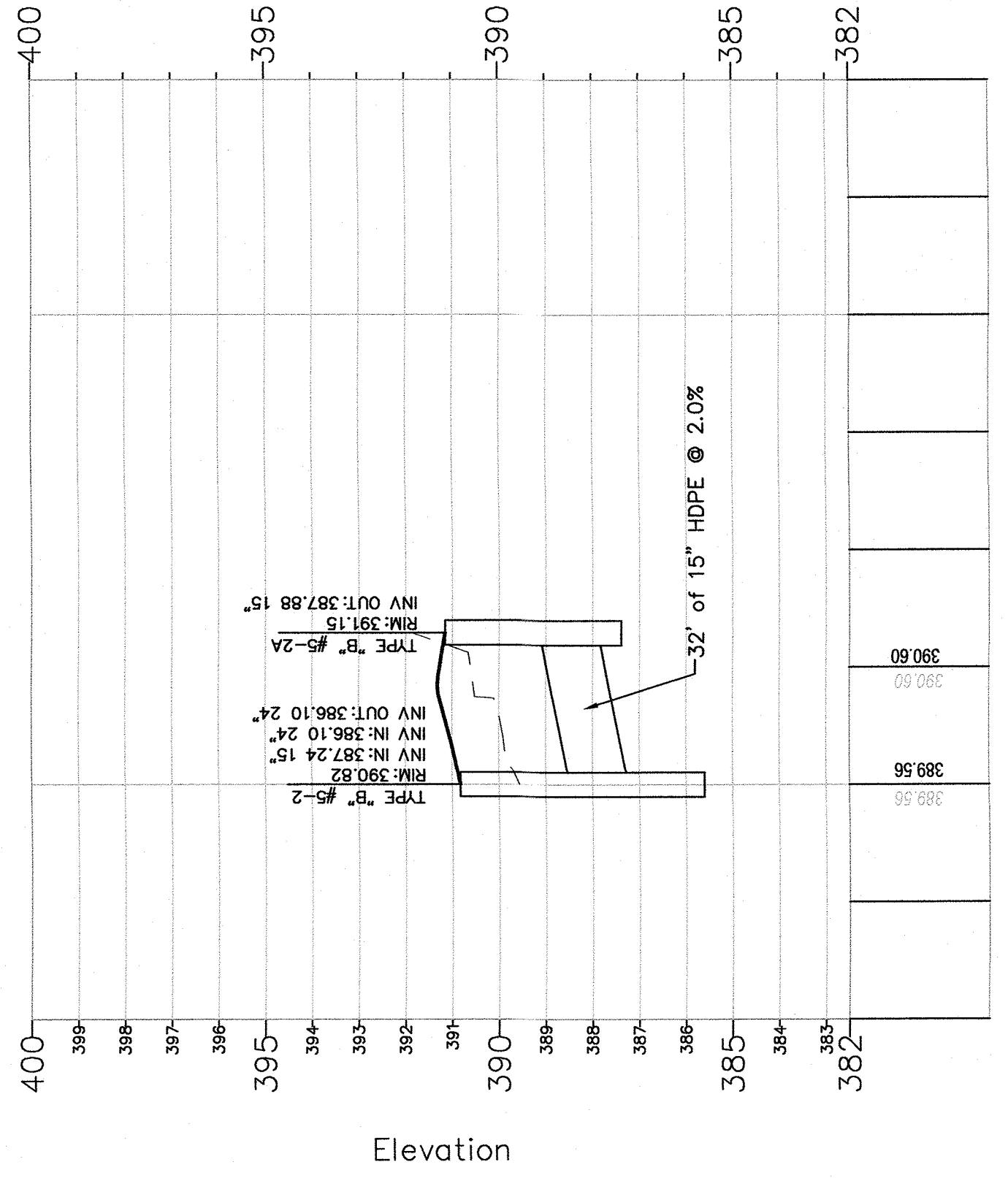
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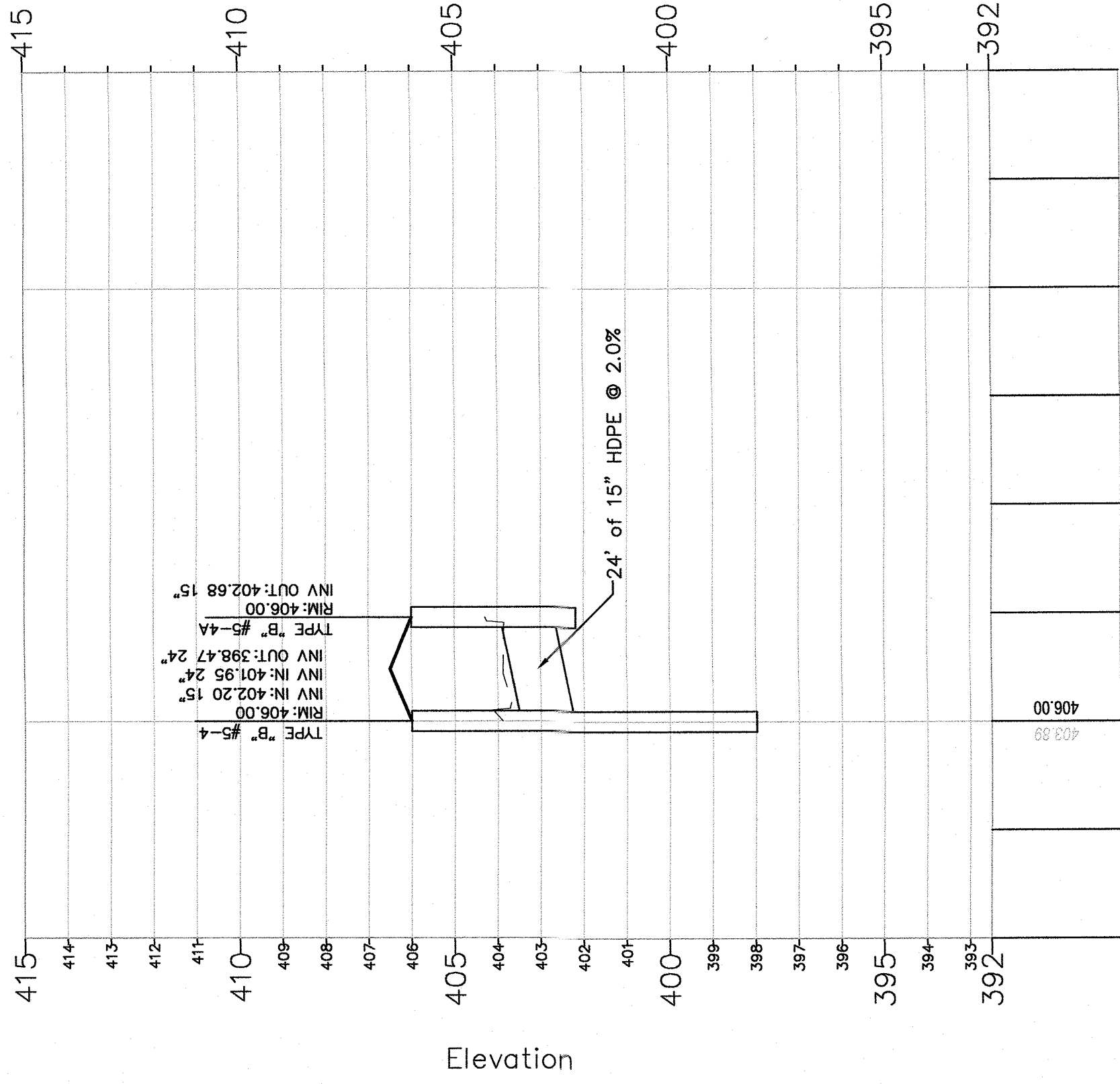
STORM SEWER #3 PROFILE



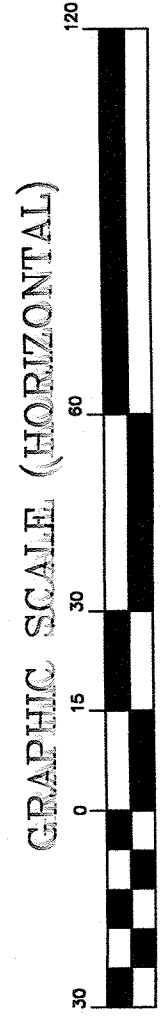
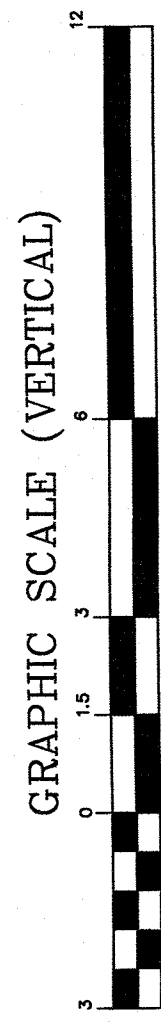
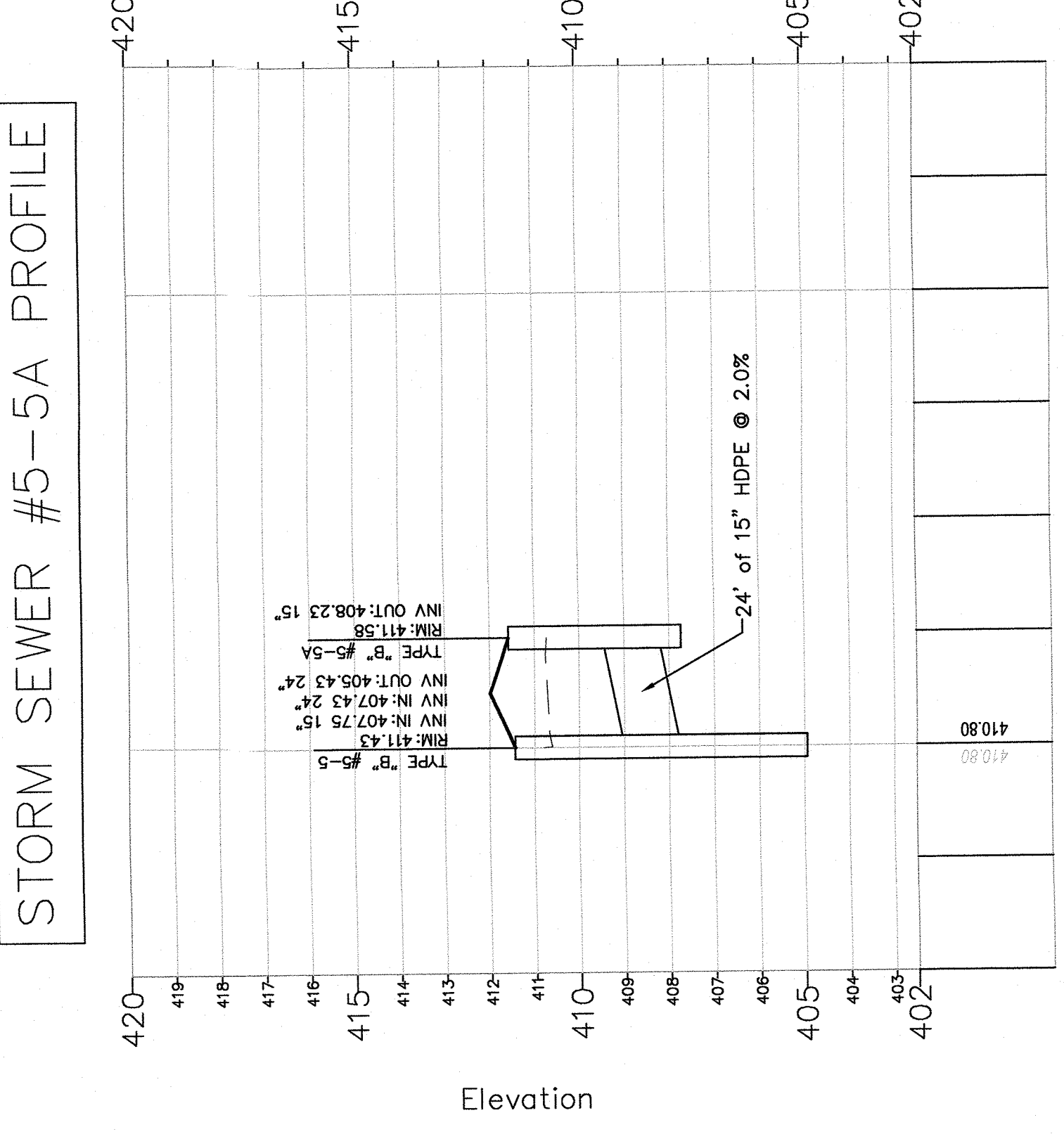
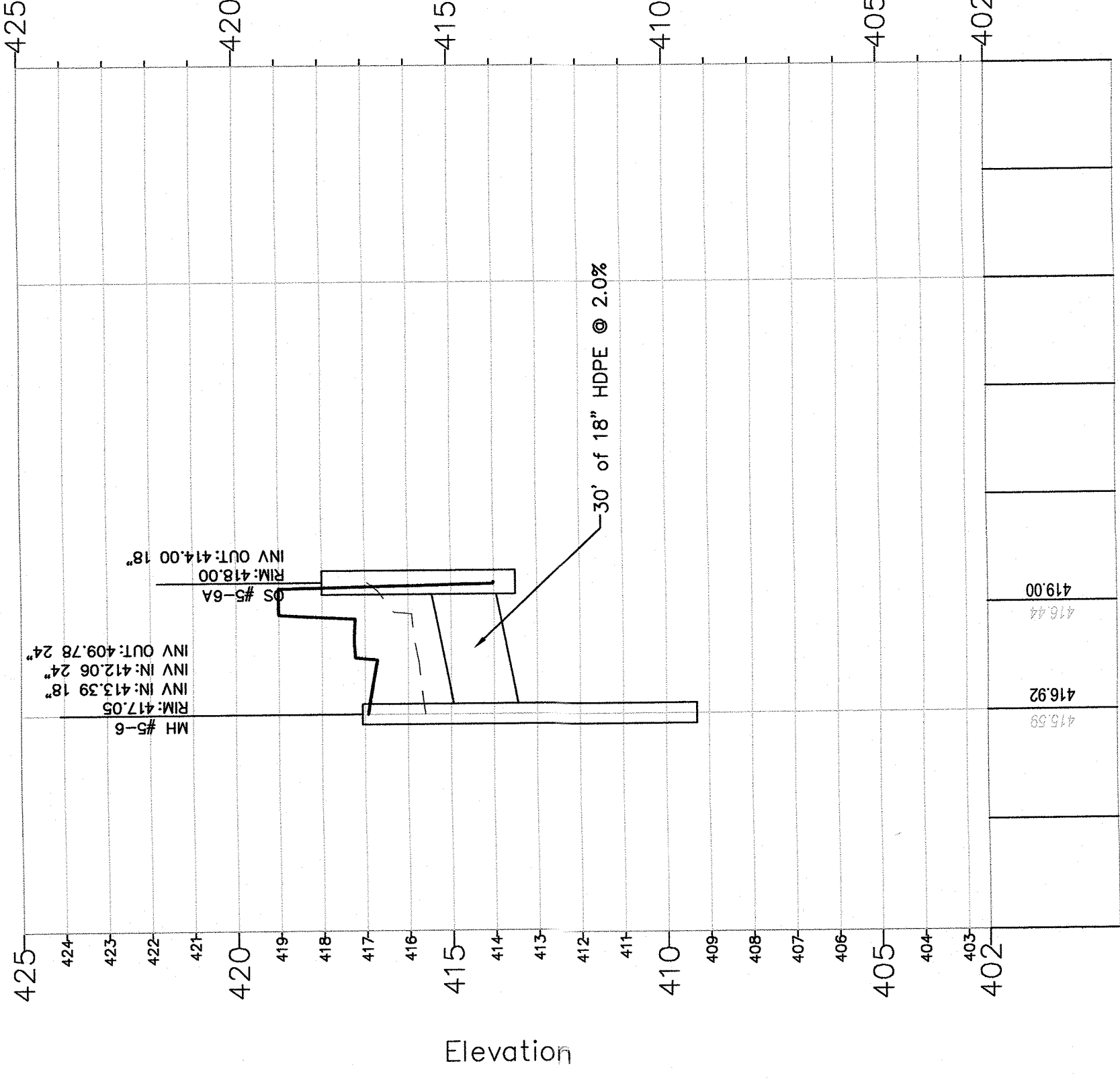
STORM SEWER #5-2A PROFILE



STORM SEWER #5-4A PROFILE



STORM SEWER #5-6A PROFILE



LEGEND	
---	EXISTING GRADE
---	PROPOSED GRADE

REVISION		DESCRIPTION	DATE	BY
2		REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1		REVISED PER BUILDING FOOTPRINT	06/09/2022	JMP
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1155 PLEASANT VALLEY WAY BLOCK 171 LOT 12 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY				
STORM SEWER PROFILES				
PETRY ENGINEERING, LLC 1000 ROUTE 100, SUITE 200 SPRING HOUSE, PA 17173 PH: 717-866-1100 FAX: 717-866-1101 WWW.PETRYENGINEERING.COM				
J. MICHAEL PETRY-PE, PP, FA NJ PROFESSIONAL ENGINEER LIC. NO. 18962 DATED: 10/29/2021				
SP-9				

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

GRAPHIC SCALE (VERTICAL)

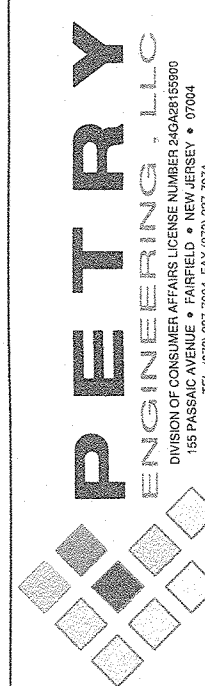
GRAPHIC SCALE (HORIZONTAL)

(IN FEET)
inch = 30 ft.

2	REVISED PER ZONING BOARD ENGINEER'S COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

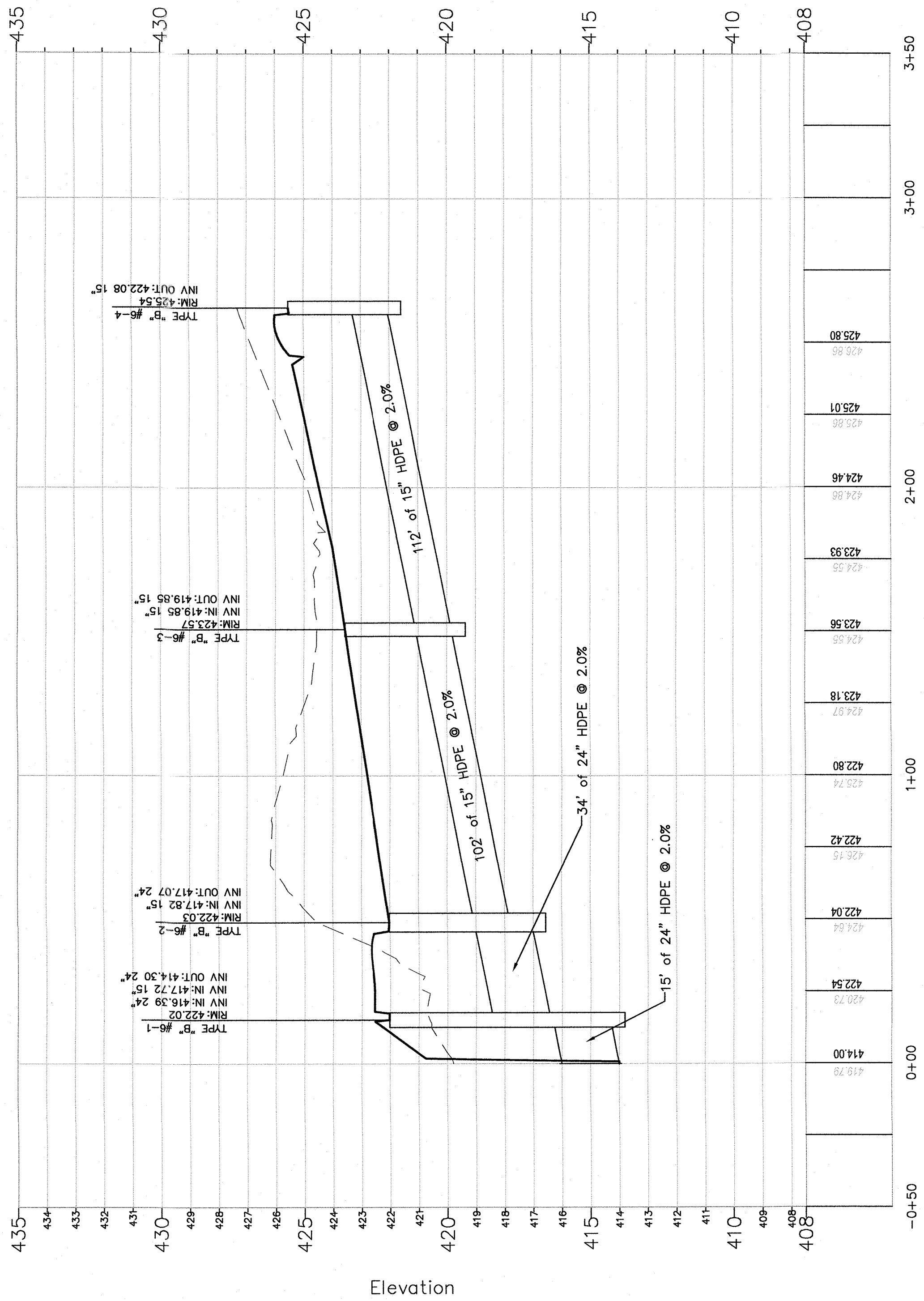
STORM SEWER PROFILES



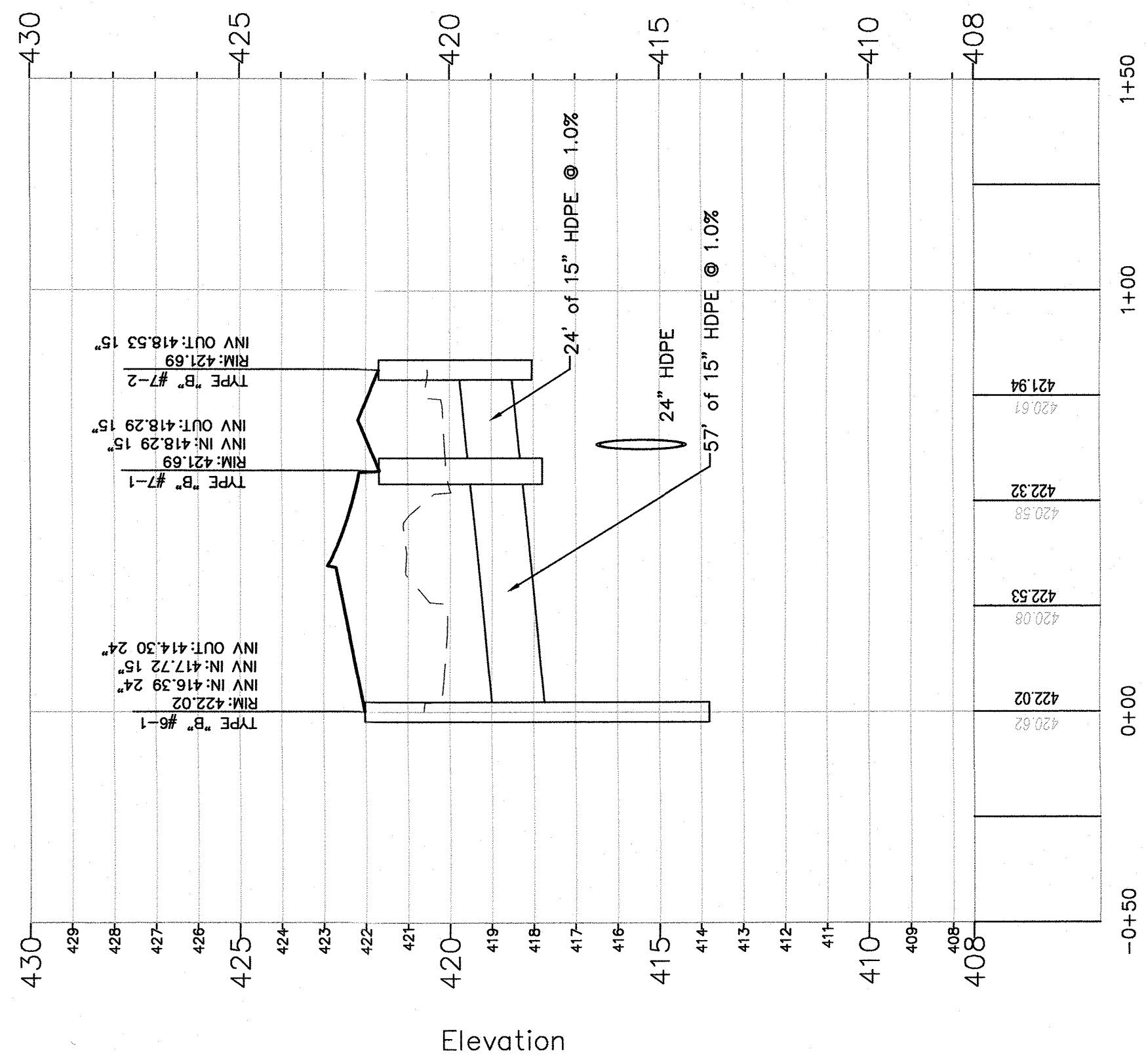
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

J. MICHAEL PETRY-PE, PP, RA
 PROFESSIONAL ENGINEER I.C. No. 36863
 DATED: 10/20/2021
 SP-10

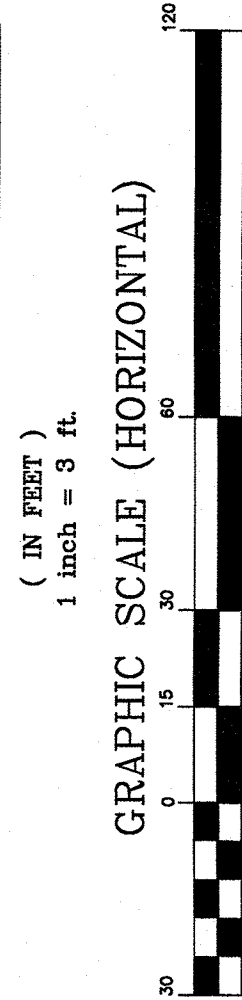
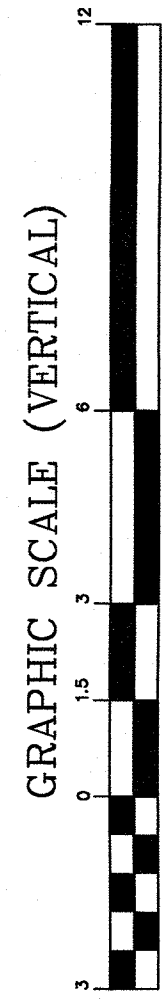
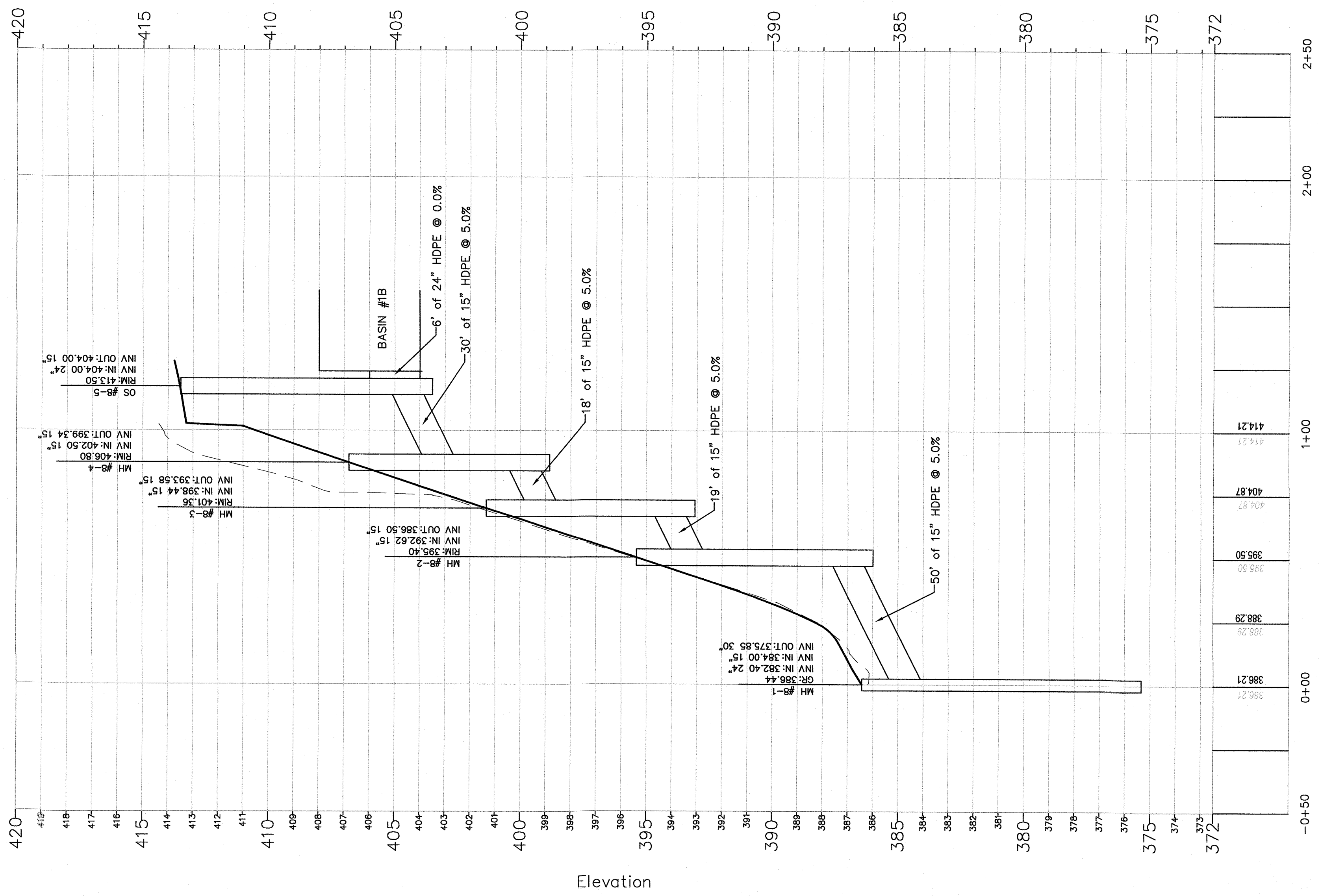
STORM SEWER #6 PROFILE



STORM SEWER #7 PROFILE



STORM SEWER #8 PROFILE

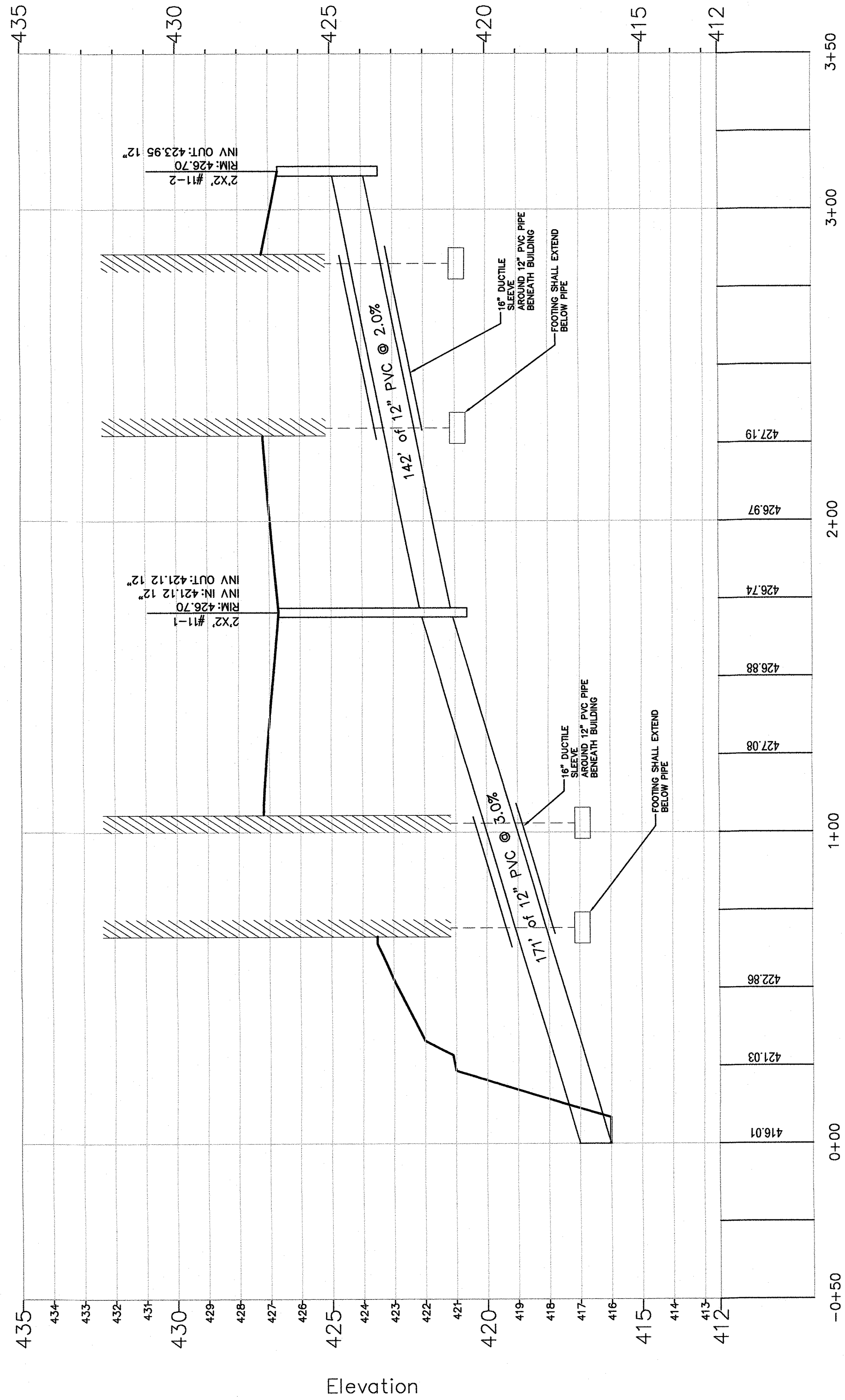


LEGEND	
---	EXISTING GRADE
---	PROPOSED GRADE

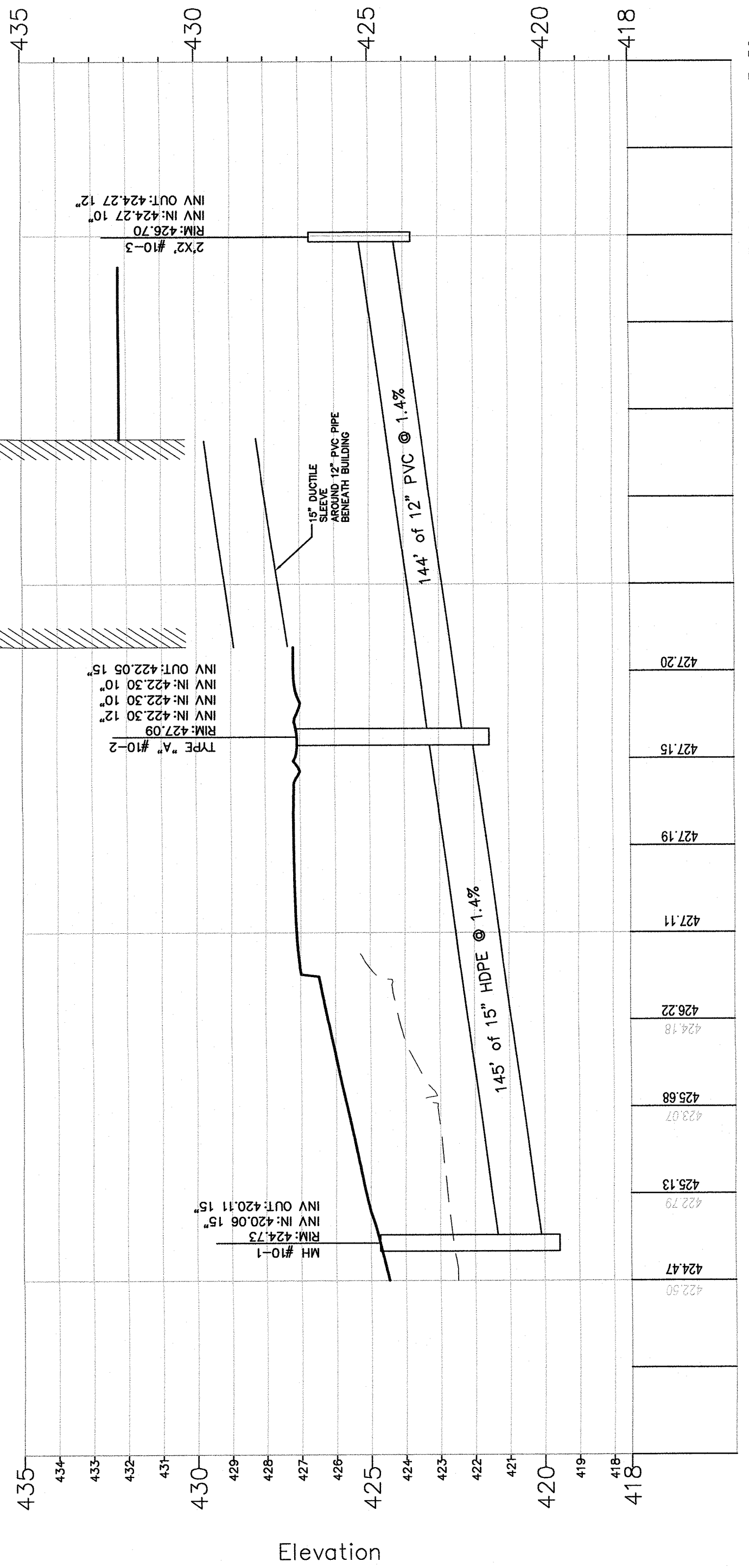
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED SEAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	09/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1155 PLEASANT VALLEY WAY SUITE 100 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
STORM SEWER PROFILES			
PETRY ENGINEERING, LLC 1000 ROUTE 100 SUITE 100 WEST ORANGE, NJ 07063 PROJECT NO. 18-245 SCALE: HORIZ. 1" = 30' VERT. 1" = 5'			
J. MICHAEL PETRY-PE, PP, RA REGISTERED PROFESSIONAL ENGINEER, NJ NO. 36982 DATED: 10/26/2021			
SP-11			

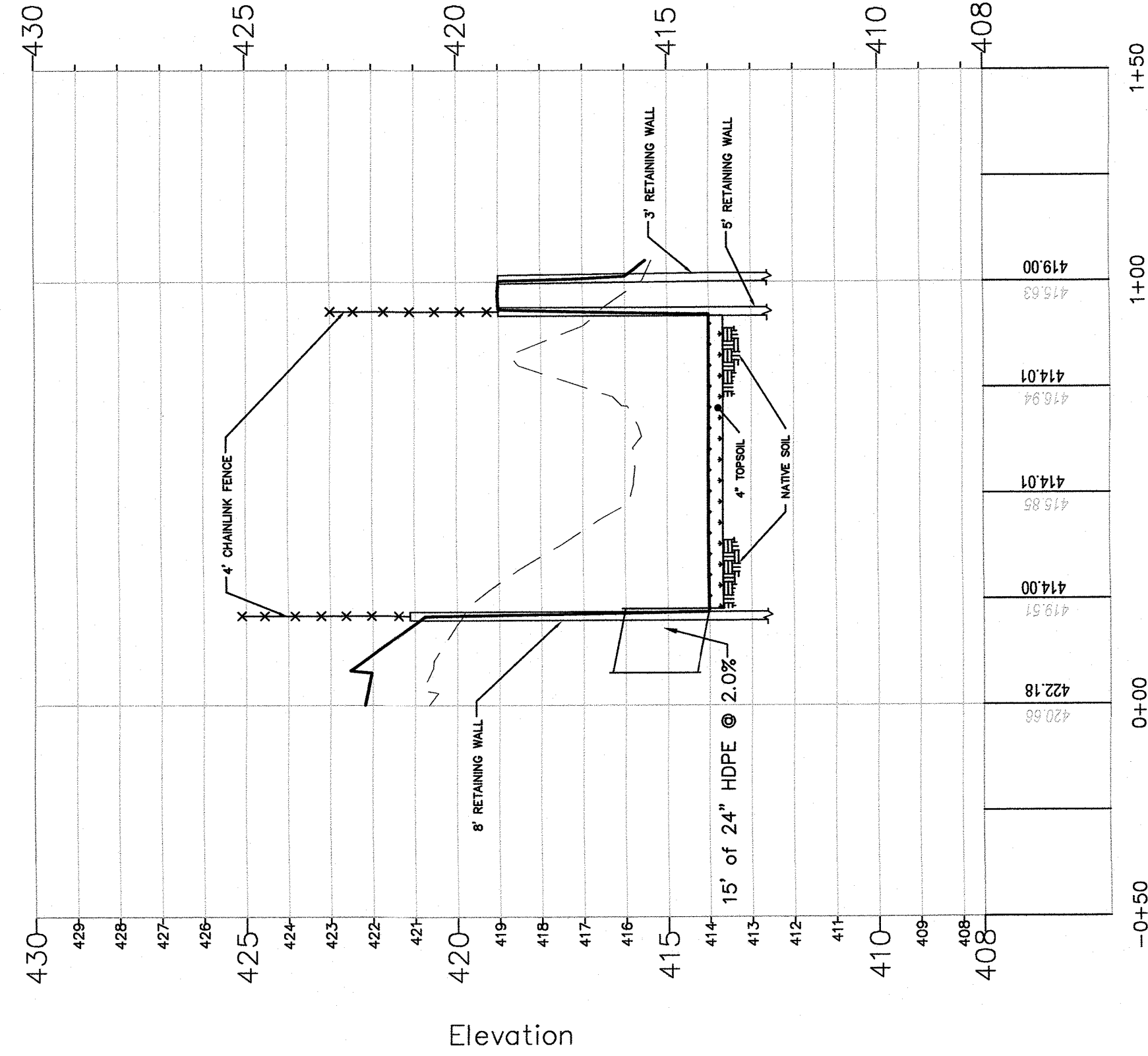
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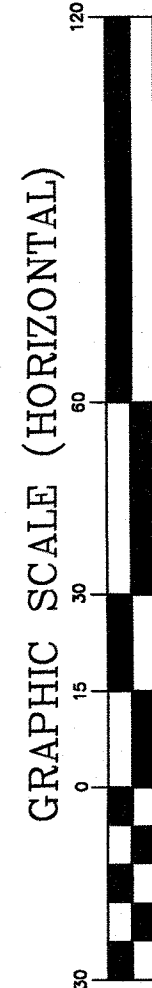
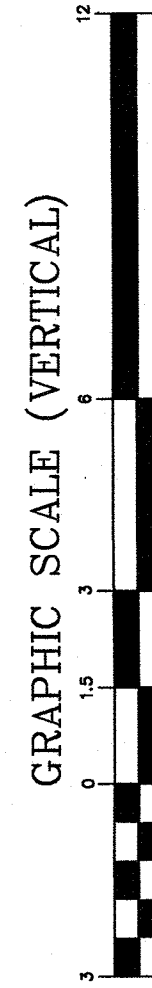
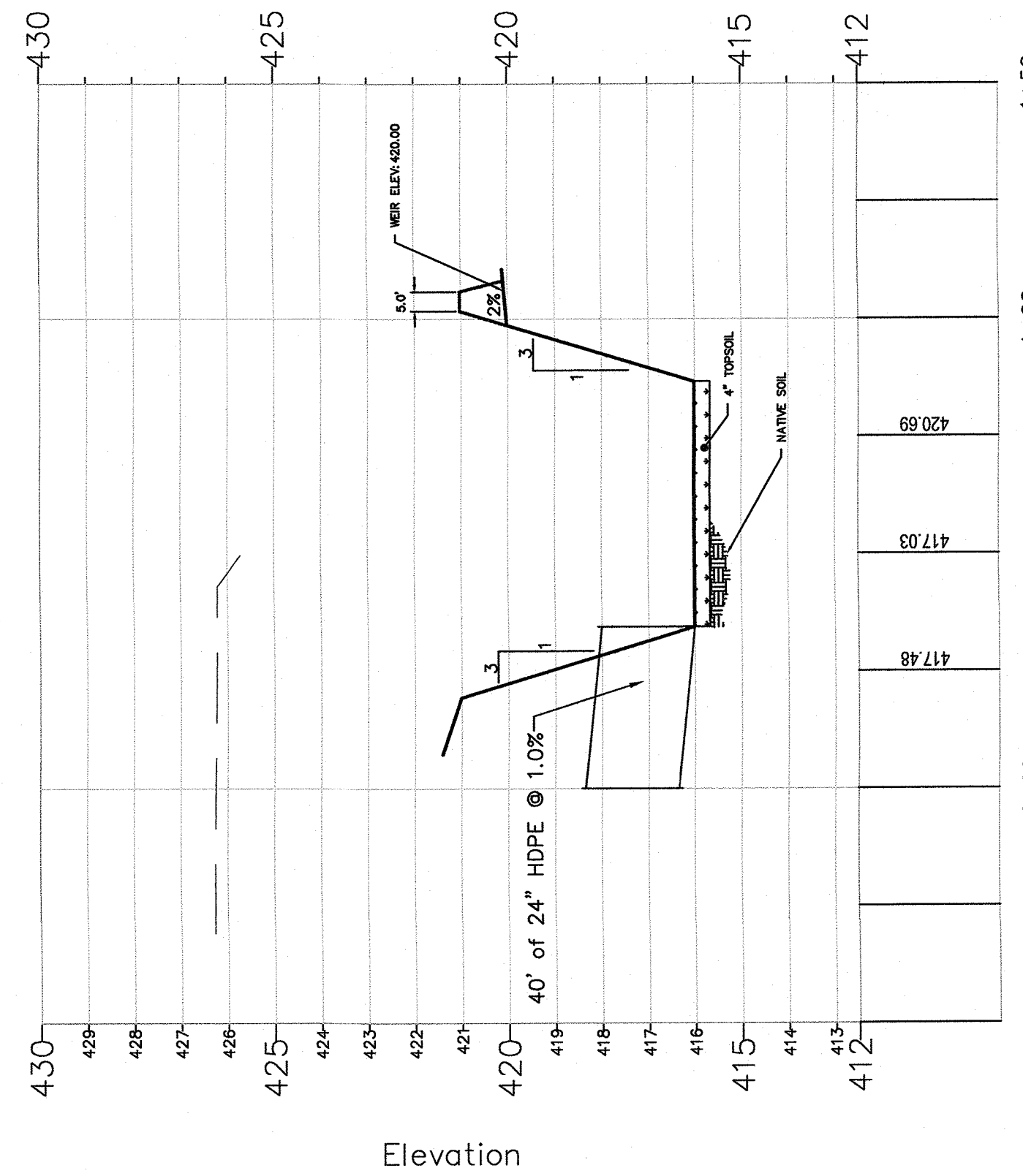
STORM SEWER #10 PROFILE



BASIN #2 PROFILE



BASIN #3 PROFILE

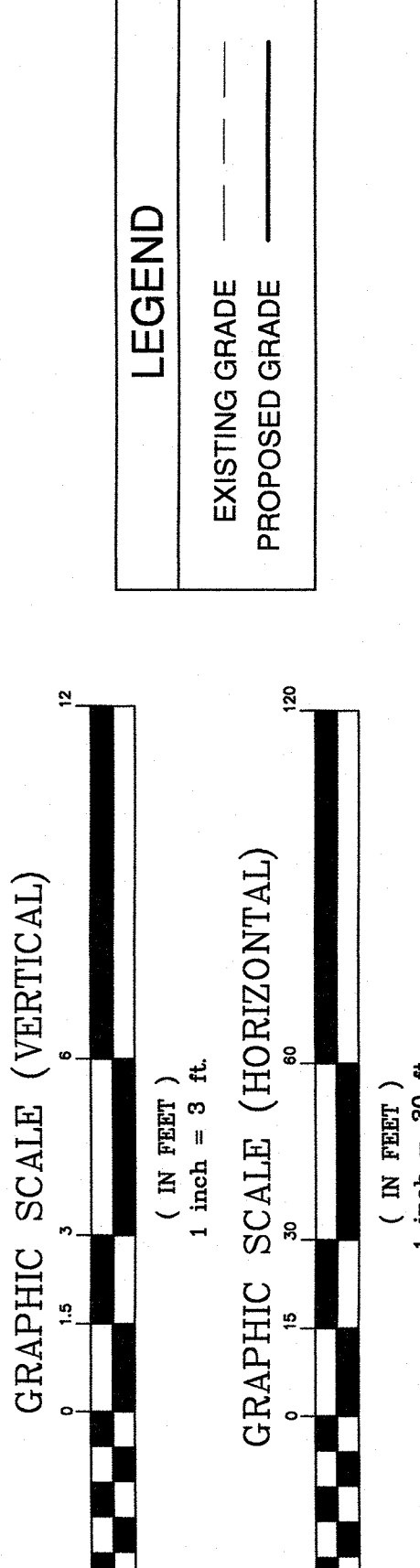
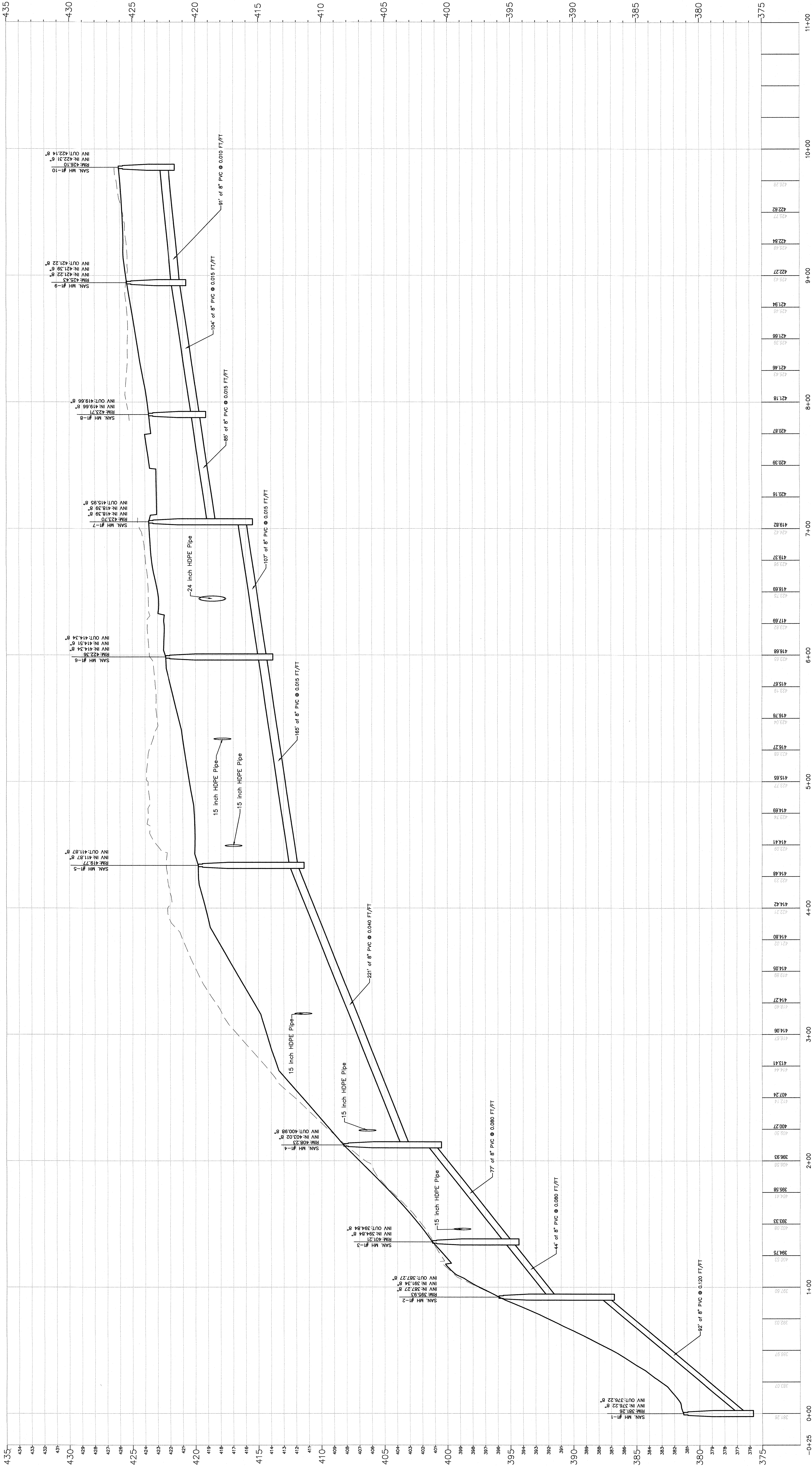


LEGEND	
---	EXISTING GRADE
---	PROPOSED GRADE

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED PROFESSIONAL ENGINEER'S SEAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	1/10/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	08/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1155 PLEASANT VALLEY WAY TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
STORM SEWER AND BASIN PROFILES			
DESIGNER: JMP CHECKED: JMP DRAWN: JMP PROJECT NO.: 19-085 SHEET: 15 OF 22 DATE: 1/10/2022			
J. MICHAEL PETRY-PE,PP,RA NJ PROFESSIONAL ENGINEER LIC. NO. 36662 DATED: 10/20/2021			
SP-12			

SANITARY SEWER #1 PROFILE



2	REVISION	DATE	BY
1	REVISED PER ZONING BOARD ENGINEERS COMMENTS	05/05/2022	JMP
2	REVISED PER NEW BILLING FOOTPRINT	05/05/2022	JMP

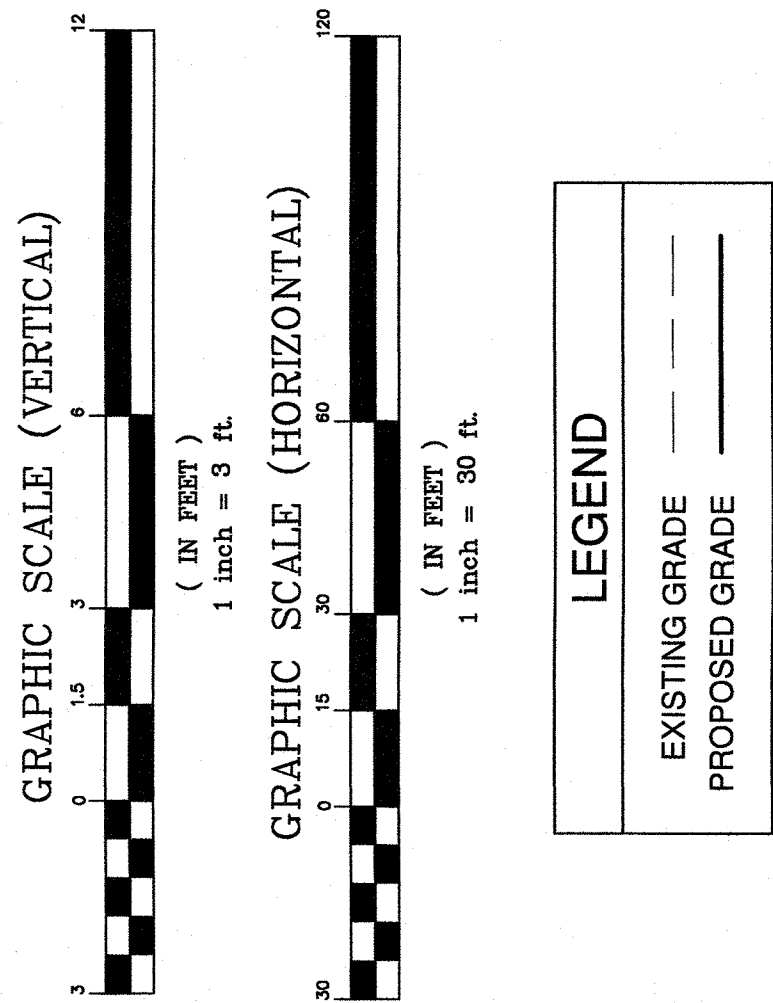
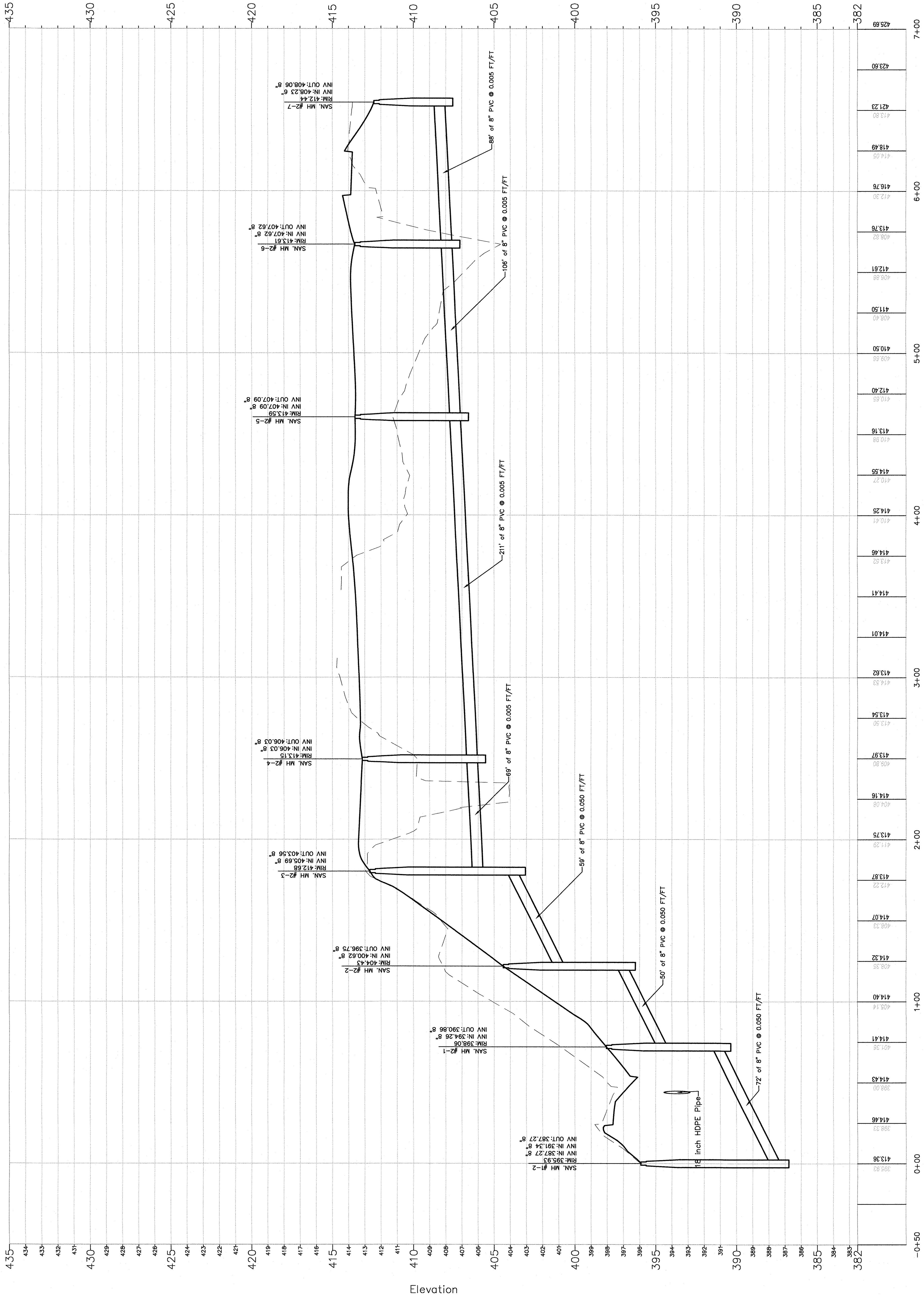
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1155 PLEASANT VALLEY WAY BLACK ROCK, NEW YORK 11550 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY	
SANITARY SEWER PROFILES	

Designer: JMP	Checker: JMP
Drawn: JMP	Checked By: JMP
Project No.: 19-385	Scale: 1/2" = 1'-0"
Sheet: 0001 of 1-00	Drawn: 05/05/2022

J. MICHAEL PETRY-PE, P.P.R.A. NJ PROFESSIONAL ENGINEER LIC. NO. 36865	SP-13 DATED: 05/05/2021
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SANITARY SEWER #2 PROFILE

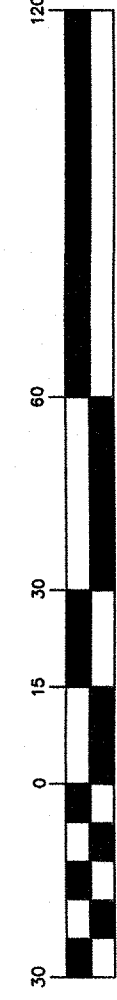


2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	08/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1155 PLEASANT VALLEY WAY BLOCK 77 LOT 12 TOWNSHIP OF PLAINFIELD ESSEX COUNTY, NEW JERSEY			
SANITARY SEWER PROFILES			
PETRY ENGINEERING, LLC 1000 ROUTE 100, SUITE 200 PLAINFIELD, NJ 07060 TEL: 908.426.1234 FAX: 908.426.1235			
J. MICHAEL PETRY-PE,PP,RA NJ PROFESSIONAL ENGINEER LIC. NO. 34862 DATED: 10/30/2021			
SP-14			

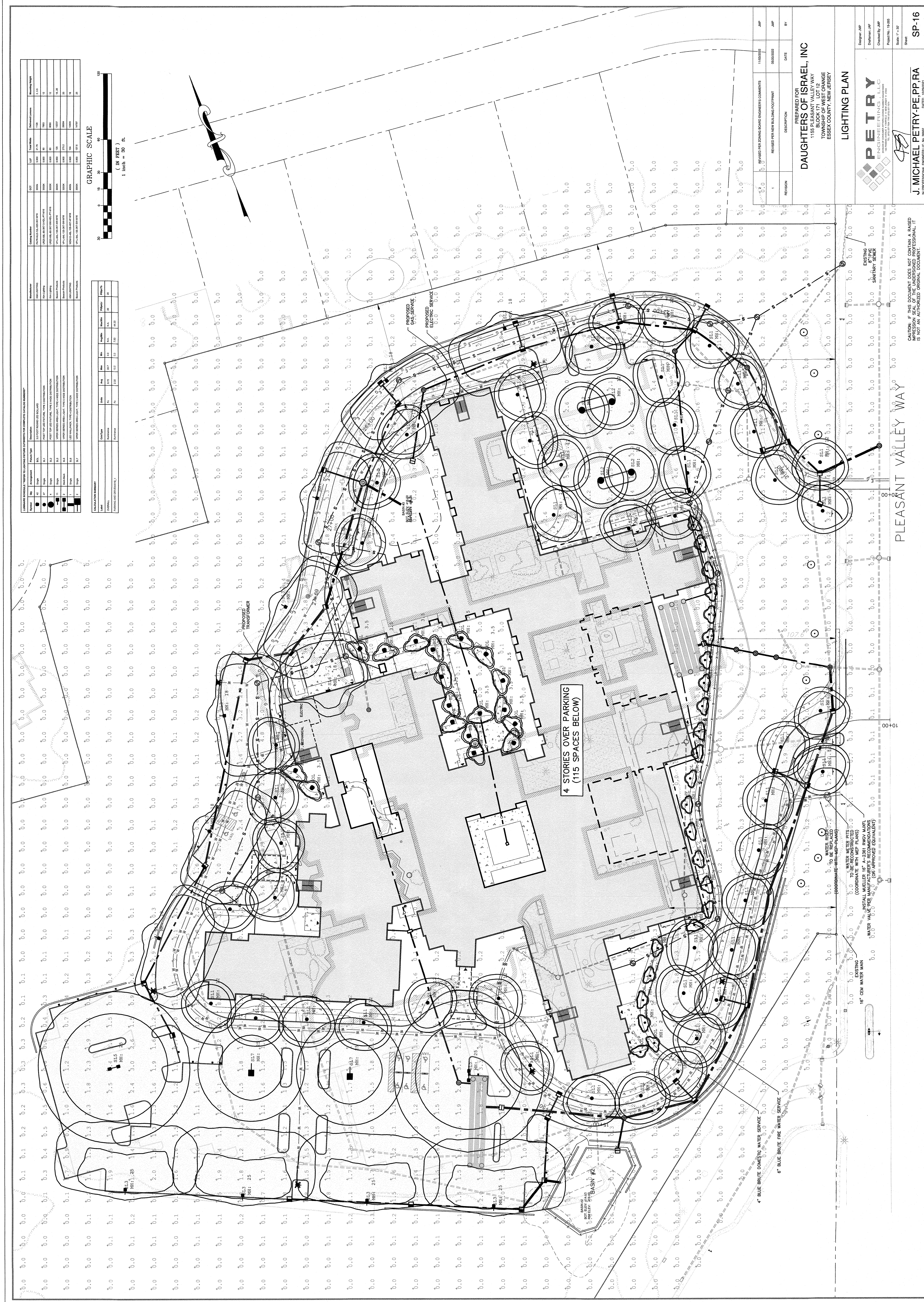
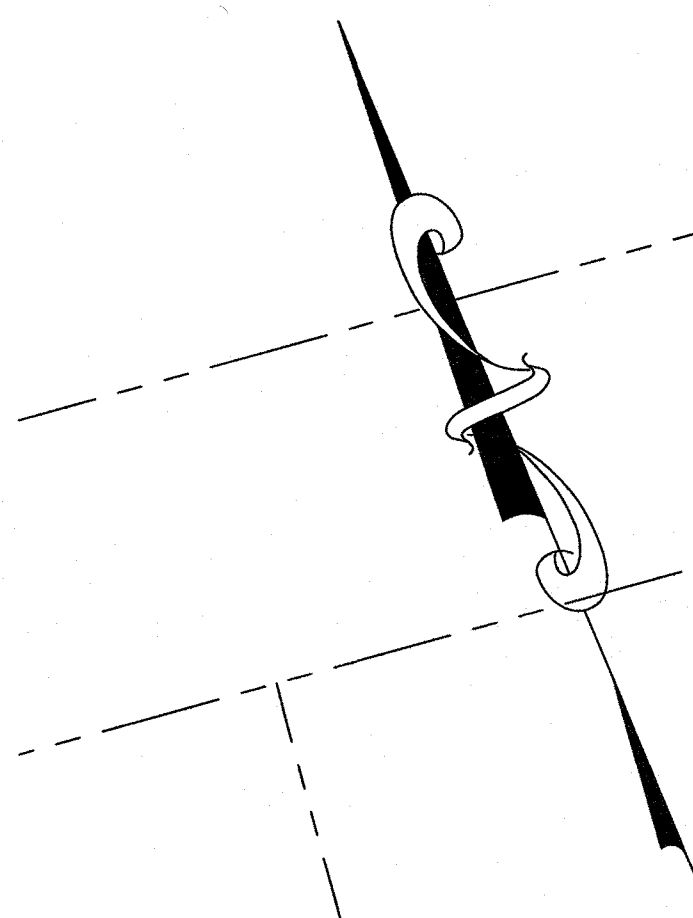
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DAUGHTERS OF ISRAEL, INC. - 1155 PLEASANT VALLEY WAY - LOT 12									
Item	Description	Quantity	Unit	Material	Notes	Remarks	Drawn	Checked	Reviewed
1	1" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	1" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	1" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	1" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	1" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	1" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	1" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE
2	2" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	2" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	2" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	2" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	2" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	2" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	2" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE
3	3" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	3" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	3" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	3" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	3" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	3" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	3" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE
4	4" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	4" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	4" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	4" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	4" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	4" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	4" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE
5	5" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	5" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	5" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	5" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	5" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	5" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	5" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE
6	6" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	6" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	6" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	6" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	6" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	6" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	6" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE
7	7" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	7" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	7" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	7" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	7" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	7" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	7" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE
8	8" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	8" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	8" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	8" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	8" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	8" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	8" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE
9	9" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	9" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	9" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	9" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	9" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	9" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	9" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE
10	10" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	100	LINEAL FEET	10" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	10" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	10" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	10" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	10" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE	10" POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) PIPE

GRAPHIC SCALE



1 inch = 30 ft.



4 STORIES OVER PARKING
(115 SPACES BELOW)

4" BLUE BRUTE DOMESTIC WATER SERVICE

6" BLUE BRUTE FIRE WATER SERVICE

16" CEM WATER MAIN

WATER METER PITS

WATER PIPES

WATER PIPES

WATER PIPES

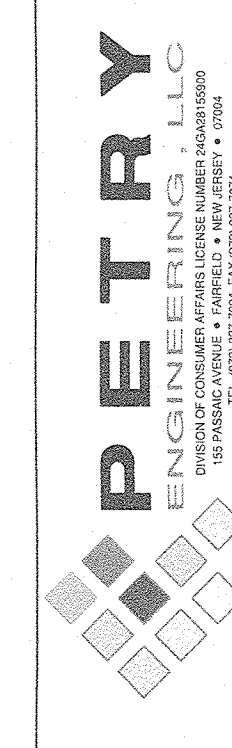
WATER PIPES

WATER PIPES

WATER PIPES

PREPARED FOR
DAUGHTERS OF ISRAEL, INC.
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

LIGHTING PLAN



J. MICHAEL PETRY, P.E., P.P., RA

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PLEASANT VALLEY WAY

10+00

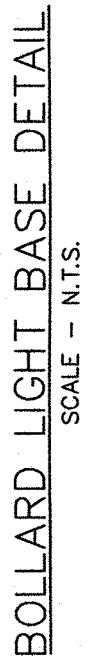
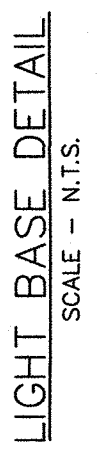
WATER METER PITS

WATER PIPES

WATER PIPES

WATER PIPES

WATER PIPES



"BOL" FIXTURE

"SL1" & "SL2" FIXTURES

"SL3", "SL5", & "SL7" FIXTURES

"SL6" FIXTURE

CALCULATION SUMMARY									
Label	CashType	Units	Avg	Max	Min	AngMin	Month	PctCst	PctCth
OPREVAL	insurance	Fc	0.72	22.7	0.0	N/A.	N/A.	20	20
WARRANTS AND PROCEEDINGS	insurance	Fc	2.35	13.3	0.0	7.83	44.33		

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GENERAL NOTES:

1. ALL SITE IMPROVEMENTS TO BE PERFORMED IN ACCORDANCE WITH INDOT SPECIFICATIONS (LATEST EDITION) UNLESS OTHERWISE NOTED.
2. THESE PLANS REPRESENT THE OVERALL SITE WORK IMPROVEMENTS REQUIRED FOR THE PROJECT CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST, AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION IN ACCORDANCE WITH THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
4. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF THE UTILITIES WITH THE UTILITY DEPARTMENTS PRIOR TO CONSTRUCTION.
5. THE DRAWINGS SHOW THE EXISTING CONDITIONS WHICH ARE LIKELY TO AFFECT THE PROSECUTION OF THE WORK INsofar AS THEY HAVE BEEN DETERMINED. THESE DRAWINGS SHOULD NOT BE USED FOR SCALING OF DIMENSIONS OR FOR DETERMINING RIGHT-OF-WAY AND PROPERTY LINES.
6. THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS OF SURFACE EVIDENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER BRACING OF EXISTING UTILITIES AS MAY BE REQUIRED TO PREVENT DAMAGE DUE TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
8. THE CONTRACTOR SHOULD NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON AND IF SUCH CONDITIONS IN THE CONTRACTOR'S OPINION WOULD OR COULD RENDER THE DESIGNS SHOWN HEREON INAPPROPRIATE OR INEFFECTIVE.
9. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO DISPOSE OF THE MATERIAL AT A SUITABLE LOCATION. DISPOSAL OF ALL EXCESS EXCAVATED MATERIAL SHALL BE PERFORMED AT THE SOLE COST OF THE CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING IN ACCORDANCE WITH THE INDOT SPECIFICATIONS (LATEST EDITION) UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING IN ACCORDANCE WITH THE INDOT SPECIFICATIONS (LATEST EDITION) UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
12. THE CONTRACTOR SHALL SUPPLY AND ERECT NECESSARY WARNING SIGNS AND PROPER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION (FHWA). THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
13. THE CONTRACTOR SHALL BACKFILL AND PAVE ANY OPEN TRENCH AT THE END OF EACH DAY AND SHALL TAKE ANY NECESSARY PRECAUTION TO PROVIDE A SAFE AND ACCESSIBLE WORK AREA FOR VEHICULAR AND PEDESTRIAN TRAFFIC.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING VEHICLE ACCESS TO ALL DRIVEWAYS, BUILDING ENTRANCES, AND SIDE STREETS ALONG THE CONSTRUCTION ROUTE TO THE MAXIMUM EXTENT PRACTICABLE.
15. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS, AND WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FEDERAL AND STATE REQUIREMENTS (WHICHEVER IS MORE STRINGENT.)
16. THE CONTRACTOR SHALL BRACE AND SUPPORT ALL EXISTING CURB IN THE IMMEDIATE VICINITY OF THE CONSTRUCTION WORK. PLANKS SHALL BE PLACED OVER CURBS TO PREVENT DAMAGE BY THE CONTRACTOR'S EQUIPMENT. ANY CURB WHICH IS DAMAGED OR DESTROYED DURING THE CONSTRUCTION WORK SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE DRAWINGS.
17. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE OF NJ WORKERS HEALTH AND SAFETY ACT (N.J.A.C. 12:10 ET. SEQ.) AS AMENDED AND THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) (29 CFR 1910), AS AMENDED WITH REGARD TO WORKER AND JOB SITE SAFETY.
18. THE CONTRACTOR SHALL CONTRACT WITH THE TOWNSHIP OF WEST UNION, NEW JERSEY, FOR THE INSTALLATION OF TRAFFIC FLAGMEN AS NECESSARY FOR WORK CONDUCTED WITHIN ROADWAYS.
19. SELECT FILL SHALL BE EITHER CLASS 1 OR II SOIL.

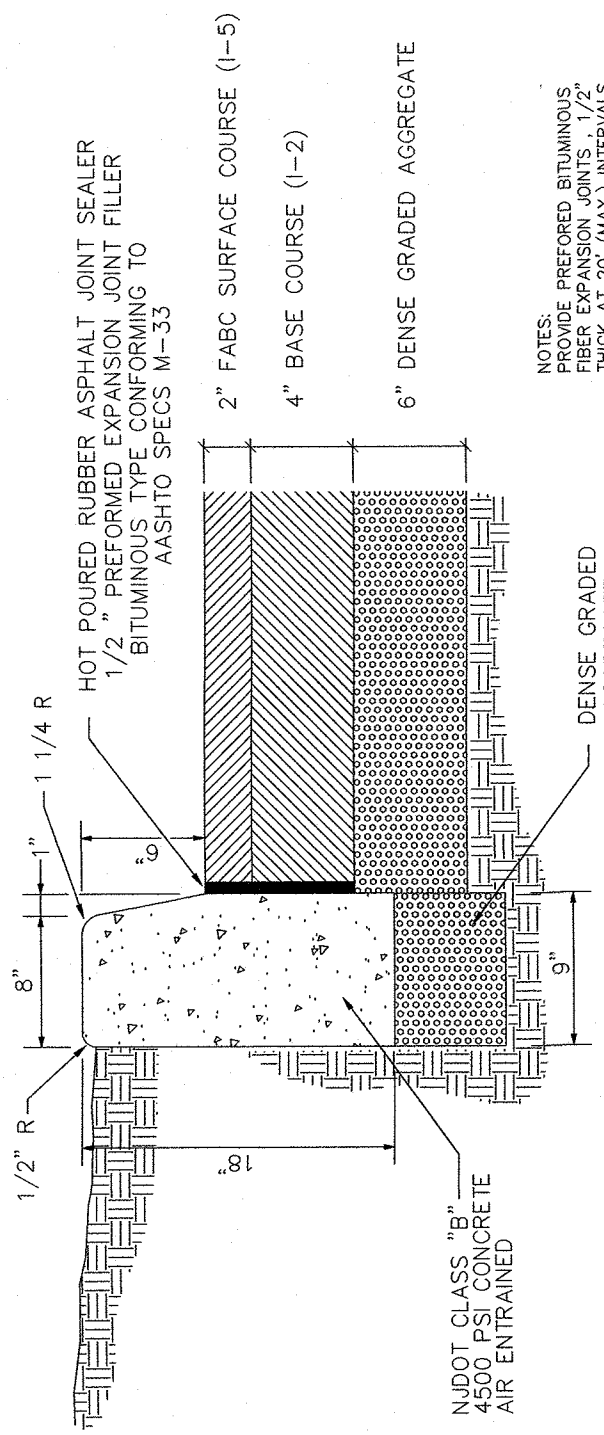
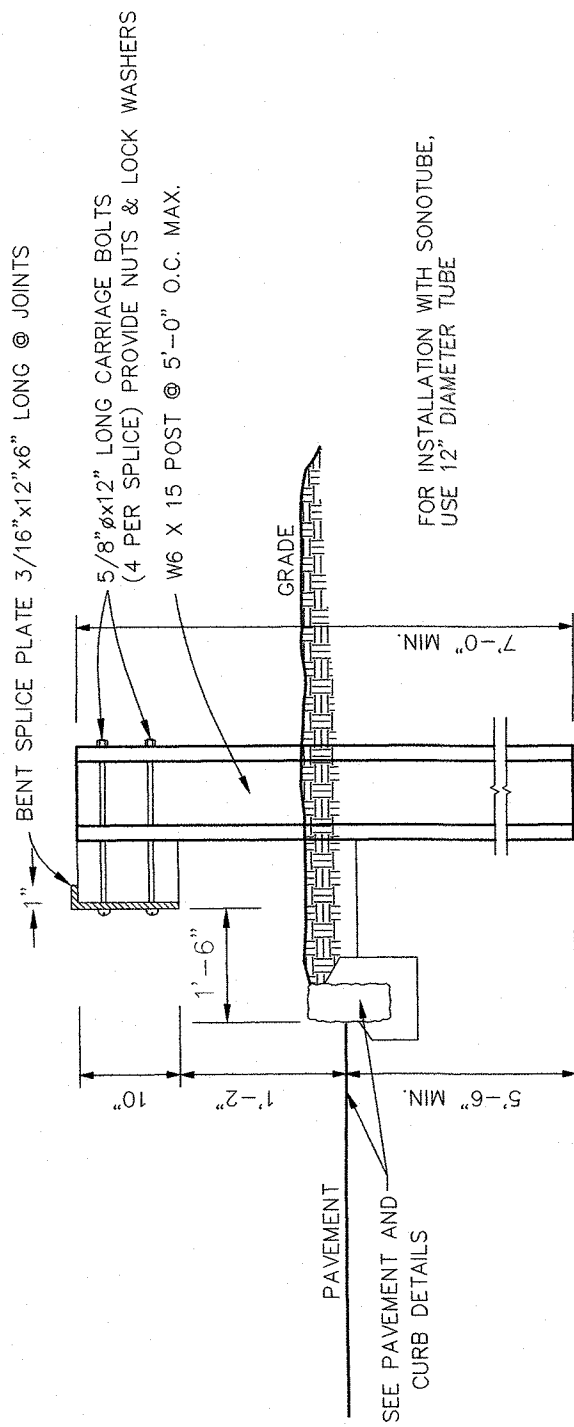
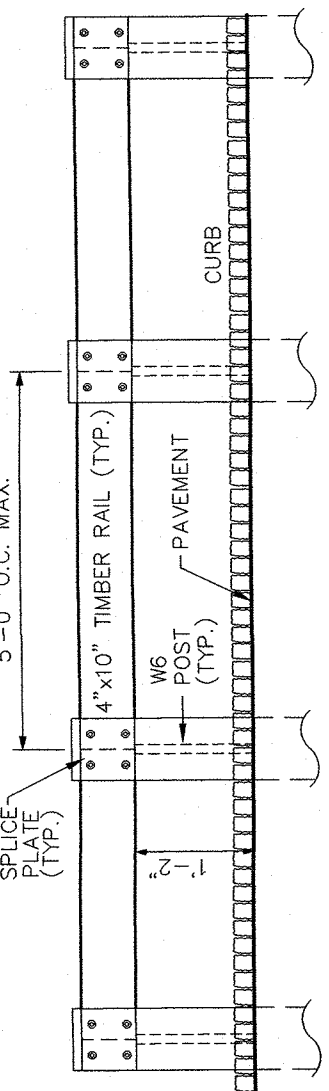
DEMO NOTES:

1. DISCONNECTION OF EXISTING UTILITY SERVICES SHALL BE COORDINATED WITH THE OWNER AND IN ACCORDANCE WITH THE INDOT SPECIFICATIONS (LATEST EDITION) UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH WRITTEN CONFIRMATION FROM UTILITY COMPANIES THAT ALL SERVICE TO THE SITE HAS BEEN TERMINATED PRIOR TO CAPPING, ABANDONMENT, OR REMOVAL OF ANY SUCH UTILITIES.
2. EXISTING BUILDINGS, STRUCTURES, CURBS, UTILITIES, SIGNS, LANDSCAPING, AND ANY OTHER IMPROVEMENTS NOT DESIGNATED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE. SHOULD DAMAGES OCCUR, THE OWNER SHALL BE NOTIFIED IMMEDIATELY, AND REPAIRS SHALL BE MADE TO MATCH EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE.
3. ALL CONCRETE, CMU, PAVEMENT, AND BRICK MATERIAL DESIGNATED FOR DEMOLITION SHALL BE COMPLETELY REMOVED FROM THE SITE. INCLUDING, BUT NOT LIMITED TO, SLABS, FLOORS, BARRIERS, CURBS, AND SIDEWALKS.
4. WALLS, BEAMS, COLUMNS, FLOOR, SLABS, PAVEMENTS, RAMPS, FOOTINGS, AND ALL OTHER BUILDING COMPONENTS OR APPURTENANCES DESIGNATED FOR REMOVAL SHALL BE COMPLETELY REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXCESS EXCAVATED MATERIAL AS DIRECTED, USING ONLY SUITABLE MATERIAL FROM ON-SITE MATERIAL OR APPROVED MATERIAL FROM OFF-SITE. NO DEBRIS FROM DEMOLITION OR OTHER UNSUITABLE MATERIAL SHALL BE USED IN SPECIAL CASES. DEEP-SEALED CONCRETE REPAIR MATERIALS SHALL BE USED IN ALL CASES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXCESS EXCAVATED MATERIAL FROM THE SITE. SO APPROVED BY THE OWNER'S ENGINEER.
5. FOLLOWING THE DEMOLITION AND REMOVAL OF ALL IMPROVEMENTS SO DESIGNATED, THE DISTURBED AREA SHALL BE GRADED, AS DIRECTED BY THE OWNER'S ENGINEER, TO MATCH THE EXISTING GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FORMATION OF GULLIES RESULTING FROM STORMWATER RUN-OFF.
6. CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED FOR WORK. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL MATERIAL.
7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL OF ANY EXISTING SITE LIGHTING WITH THE APPROPRIATE UTILITY COMPANY. LIGHT POLES SHALL BE REMOVED AND DISPOSED OF AS REQUIRED.

UTILITY NOTES:

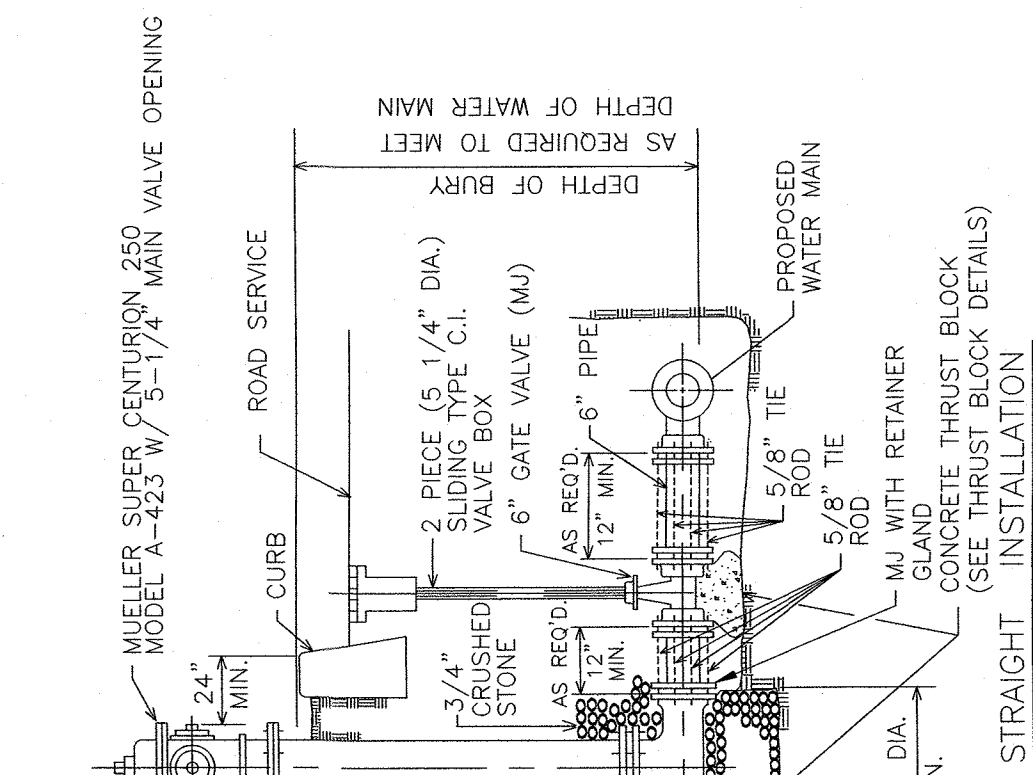
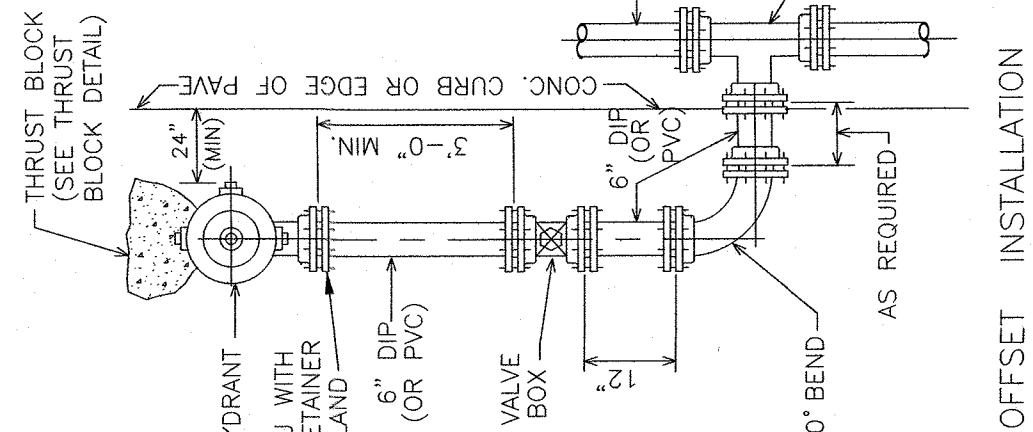
1. EXCESS EXCAVATED MATERIAL WILL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO DISPOSE OF THE MATERIAL AT A SUITABLE LOCATION. DISPOSAL OF ALL EXCESS EXCAVATED MATERIAL SHALL BE PERFORMED AT THE SOLE COST OF THE CONTRACTOR.
2. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR DUCTILE IRON PIPE SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS AND AWWA STANDARDS.
3. PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN WATER MAINS AND UTILITIES OR CONSTRUCTIONS, UNLESS OTHERWISE SHOWN.
4. ALL FITTINGS ARE TO BE MECHANICAL JOINT WITH RETAINER GLANDS. HOWEVER, FITTINGS IN THE DRAWINGS PROVIDE CONCRETE THRUST BLOCKS IN ACCORDANCE WITH DETAILS OR AS NOTED IN THE DRAWINGS, OR AS REQUIRED BY SPECIFIC SOIL CONDITIONS ENCOUNTERED. TYPICAL THRUST BLOCK REACTION DETAILS SHOWN ON THE DRAWINGS ARE FOR DUCTILE IRON PIPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
5. NOTIFY THE ENGINEER, WATER, AND FIRE DEPARTMENTS 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING WATER MAINS.
6. THE CONTRACTOR SHALL INSTALL TEMPORARY AIR RELEASE TAPS, AND SAMPLING TAPS WITH COPPER SAMPLING PIPE FOR TESTING AND MONITORING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
7. THE GENERAL LOCATION OF FIRE HYDRANTS AND CURB BOXES ARE SHOWN ON THE DRAWINGS. HYDRANTS AND CURB BOXES SHALL BE LOCATED IN THE FIELD PER THE WATER DEPARTMENT'S REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF EXISTING CURB AND CHANGES IN THE GRADE. THE WATER DEPARTMENT SHALL PROVIDE THE FINISHED GRADE ELEVATION FOR SETTING THE HYDRANT AND VALVE BOX.
8. ANY EXISTING FIRE HYDRANTS TO BE REMOVED SHALL BE DELIVERED TO THE WATER DEPARTMENT YARD.
9. THE APPROXIMATE LOCATION OF WATER SERVICE CONNECTIONS IS SHOWN ON THE DRAWINGS. THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY OWNER.
10. CONSTRUCTION AND TRANSFER OF SERVICES SHALL ONLY BE PERFORMED AFTER THE MAINS HAVE BEEN TESTED AND LOCATED BY THE WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
11. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL AND/OR MEP DRAWINGS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
12. THE MINIMUM EARTH COVER OVER ALL NEW WATER MAINS SHALL BE 4 FEET UNLESS OTHERWISE INDICATED ON DRAWINGS. THE PIPE SHALL BE CLASS 52 UNLESS OTHERWISE INDICATED. PIPE CLASSIFICATION FOR THE WATER MAINS SHALL BE CLASS 52. ALL FITTINGS SHALL BE DUCTILE IRON CEMENTS-LINED WITH MECHANICAL JOINTS, WITH RETAINER GLANDS CLASS 50 UNLESS OTHERWISE INDICATED ON DRAWINGS. RETAINER GLANDS SHALL BE CLASS 50 UNLESS OTHERWISE INDICATED ON DRAWINGS. UNLESS OTHERWISE INDICATED, ALL PIPE AND FITTINGS SHALL BE POLYETHYLENE ENCLOSED.
13. THE MINIMUM EARTH COVER OVER ALL OTHER UTILITIES IS TO BE 2 FEET UNLESS OTHERWISE INDICATED ON DRAWINGS.
14. WHERE EXISTING MAINS ARE TO BE ABANDONED IN PLACE, ALL OPENINGS FROM CUT PORTIONS SHALL BE COMPLETELY SEALED WITH NON-SHRINK QUICK-SETTING CEMENT, AS APPROVED BY THE ENGINEER. DO NOT BACKFILL UNTIL THE CEMENT IS CURED.
15. INSTALLATION OF NEW COPPER SERVICES SHALL BE PERFORMED BY OPEN TRENCH EXCAVATION IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS. THE EMPLOYMENT OF ALTERNATIVE METHODS SHALL NOT BE PERMITTED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER BRACING OF EXISTING UTILITIES AS MAY BE REQUIRED TO PREVENT DAMAGE DUE TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES HAVING JURISDICTION IN THESE MATTERS.
17. WORK PERFORMED ON COUNTY ROADS SHALL BE LIMITED TO THE HOURS OF 9:00 A.M. TO 4:00 P.M. UNLESS OTHERWISE PERMITTED BY THE COUNTY.
18. ALL UTILITIES TO BE ABANDONED SHALL BE ABANDONED IN THE STREET ACCORDING TO ALL APPLICABLE CODES.

TIMBER GUIDE RAIL DETAIL
SCALE - N.T.S.

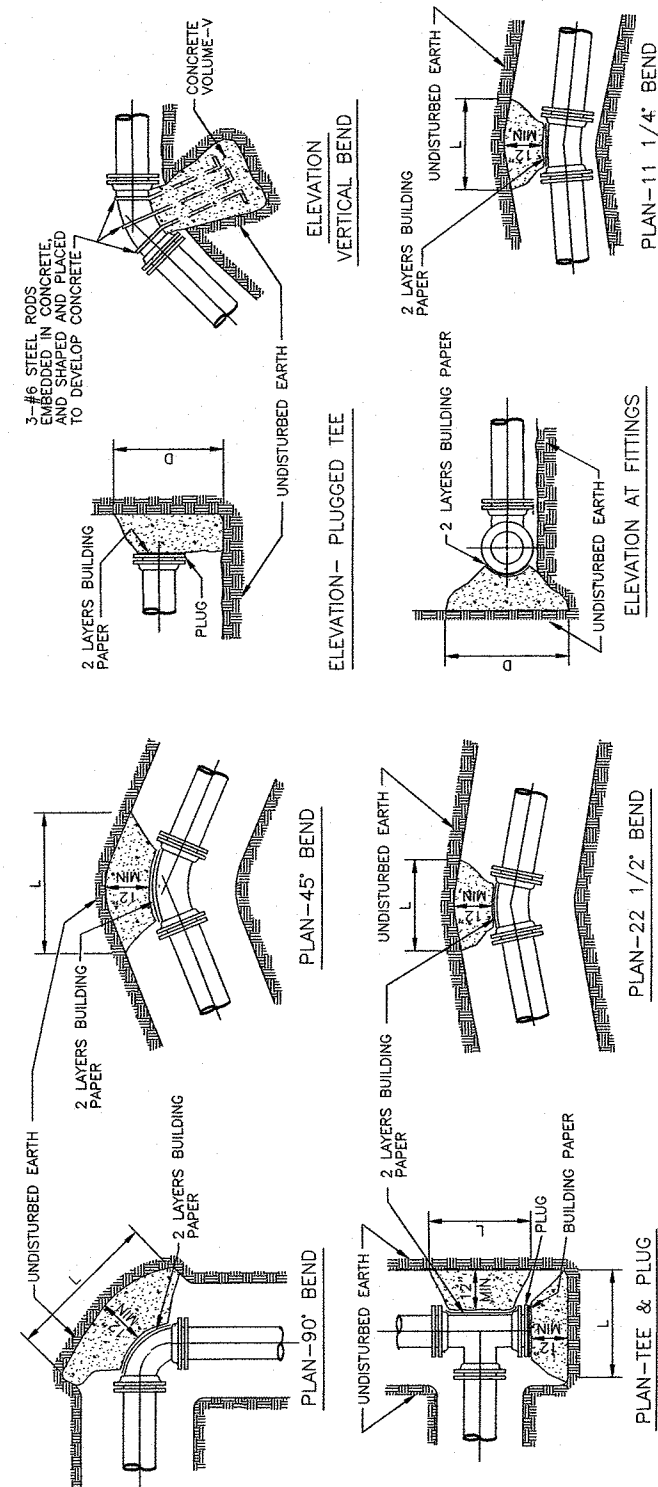


CONCRETE CURB AND FULL DEPTH PAVEMENT
(WITHIN ESSEX COUNTY R.O.W.)
SCALE - N.T.S.

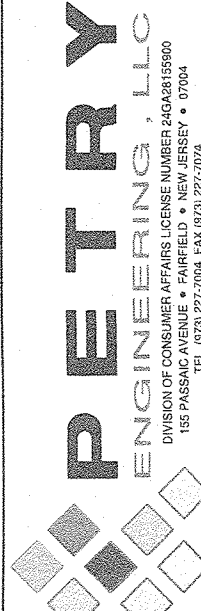
PIPE TRENCH DETAIL
(WITHIN ESSEX COUNTY R.O.W.)
SCALE - N.T.S.



TYPICAL HYDRANT DETAILS
N.T.S.



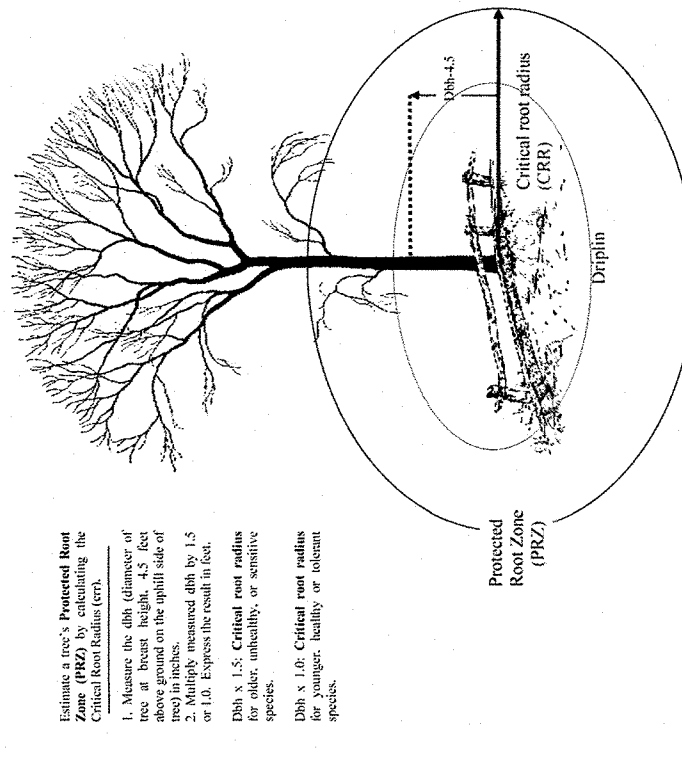
HYDRANT BLOCK DETAILS N.T.S.									
NOTE: 1. DIMENSIONS FOR BLOCKS ARE GIVEN IN INCHES. FOR BLOCKS OF 1000 PSI, 2. CONCRETE SHALL BE 1000 PSI. 3. CONCRETE SHALL BE 1000 PSI. 4. CONCRETE SHALL BE 1000 PSI. 5. CONCRETE SHALL BE 1000 PSI. 6. CONCRETE SHALL BE 1000 PSI. 7. CONCRETE SHALL BE 1000 PSI. 8. CONCRETE SHALL BE 1000 PSI. 9. CONCRETE SHALL BE 1000 PSI. 10. CONCRETE SHALL BE 1000 PSI.									
SIZE	10"	12"	14"	16"	18"	20"	22"	24"	26"
W	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00
D	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00
H	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00
W x D x H	10.00 x 10.00 x 10.00	12.00 x 12.00 x 12.00	14.00 x 14.00 x 14.00	16.00 x 16.00 x 16.00	18.00 x 18.00 x 18.00	20.00 x 20.00 x 20.00	22.00 x 22.00 x 22.00	24.00 x 24.00 x 24.00	26.00 x 26.00 x 26.00



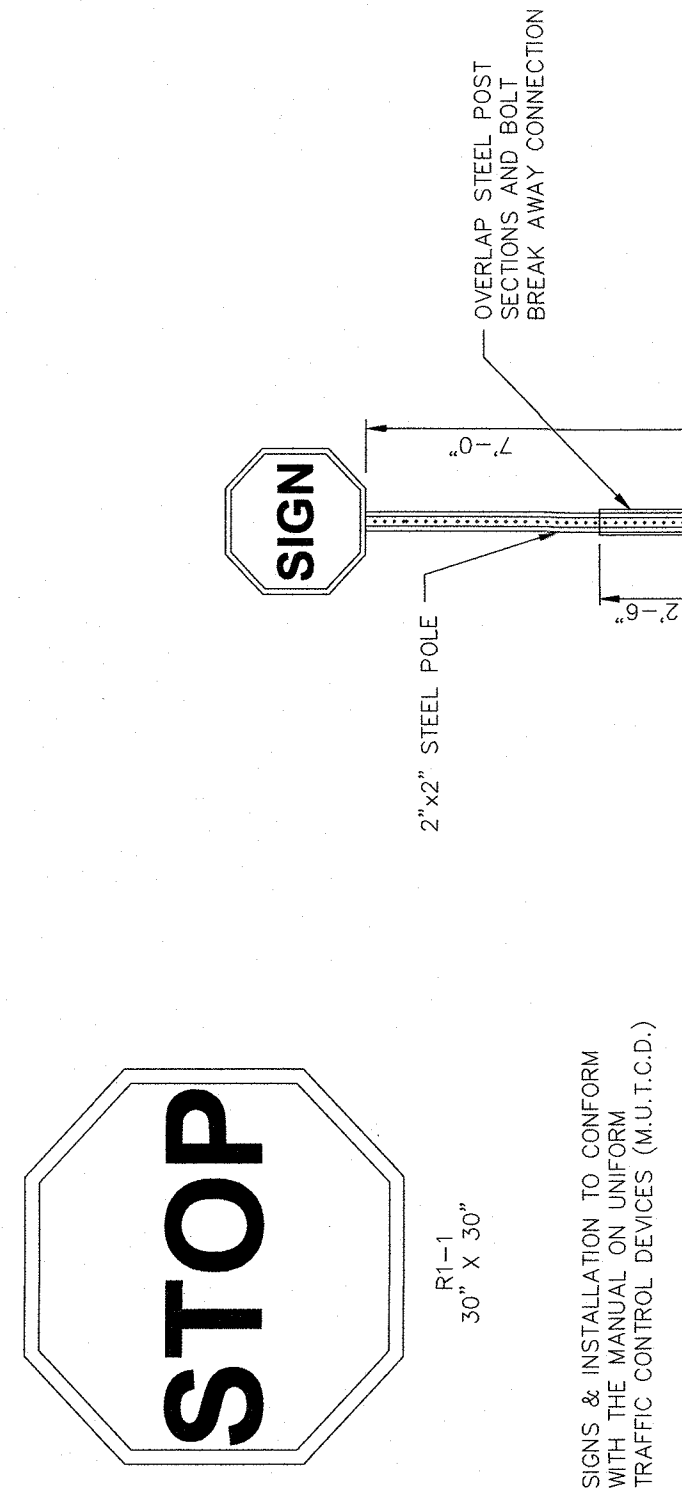
PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171, LOT 12
TOWNSHIP OF WEST UNION
ESSEX COUNTY, NEW JERSEY

CONSTRUCTION NOTES

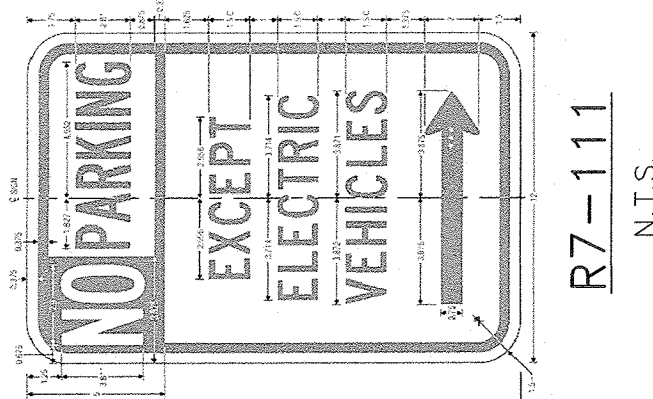
NO.	REVISION	REVISION BY	REVISION DATE
2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	JMP	11/03/2022
1	REVISED PER NEW BUILDINGS FOOTPRINT	JMP	05/05/2022
REVISION	DESCRIPTION	DATE	BY



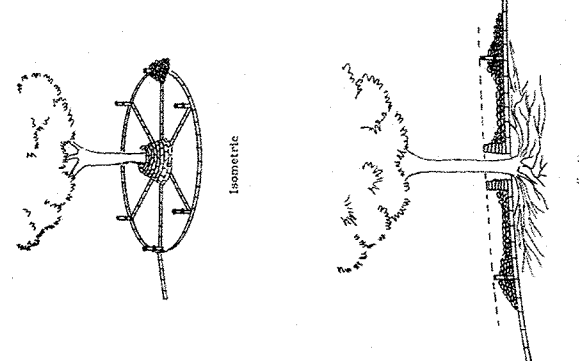
ROOT PROTECTION DURING CONSTRUCTION DETAIL
SCALE - N.T.S.



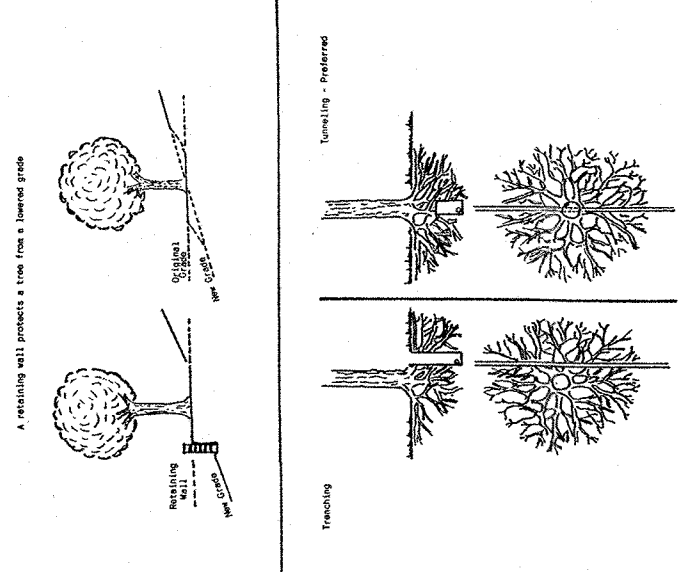
SIGNS & INSTALLATION TO CONFORM
WITH THE MANUAL ON UNIFORM
TRAFFIC CONTROL DEVICES (M.U.T.C.D.)



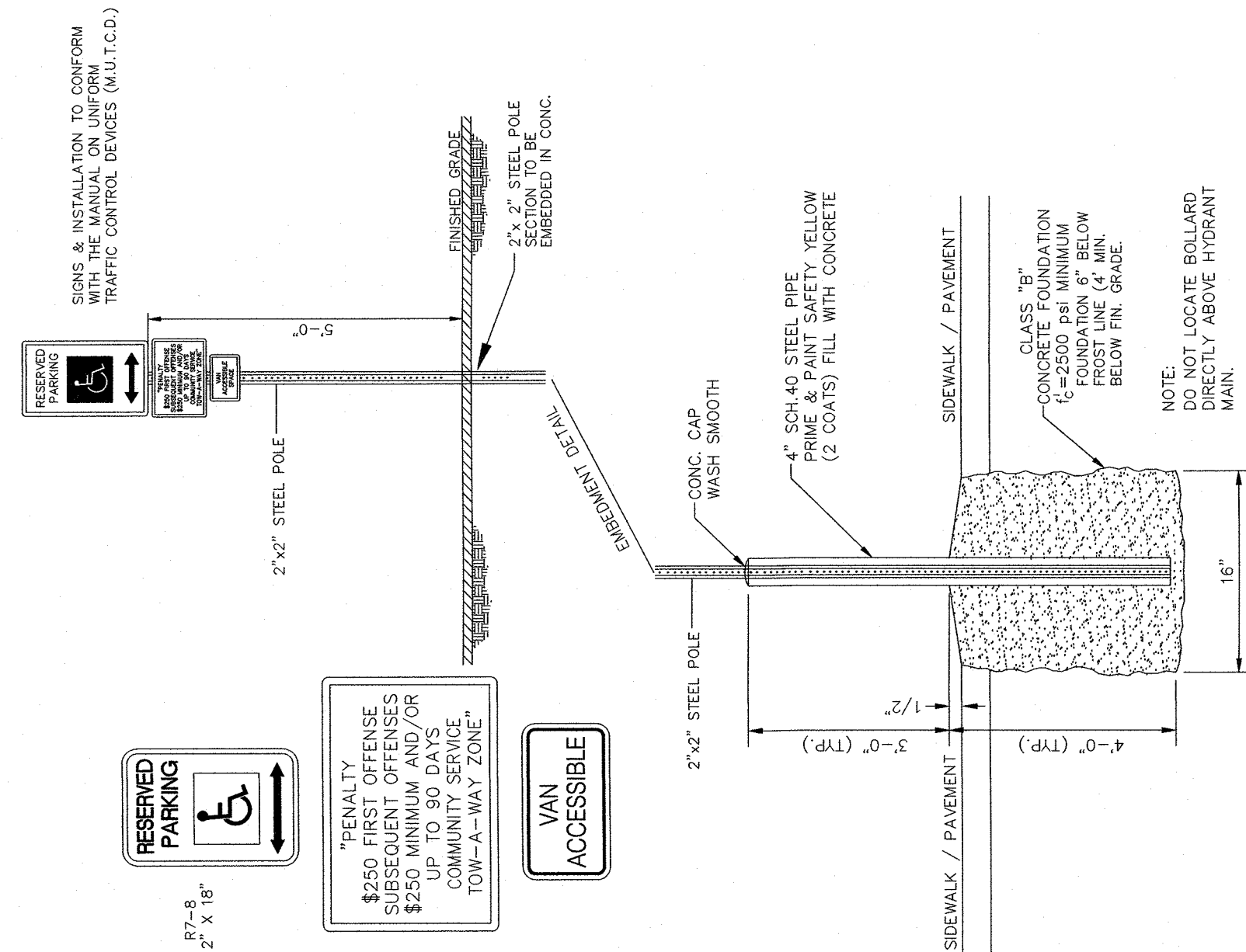
TYPICAL SIGN DETAIL



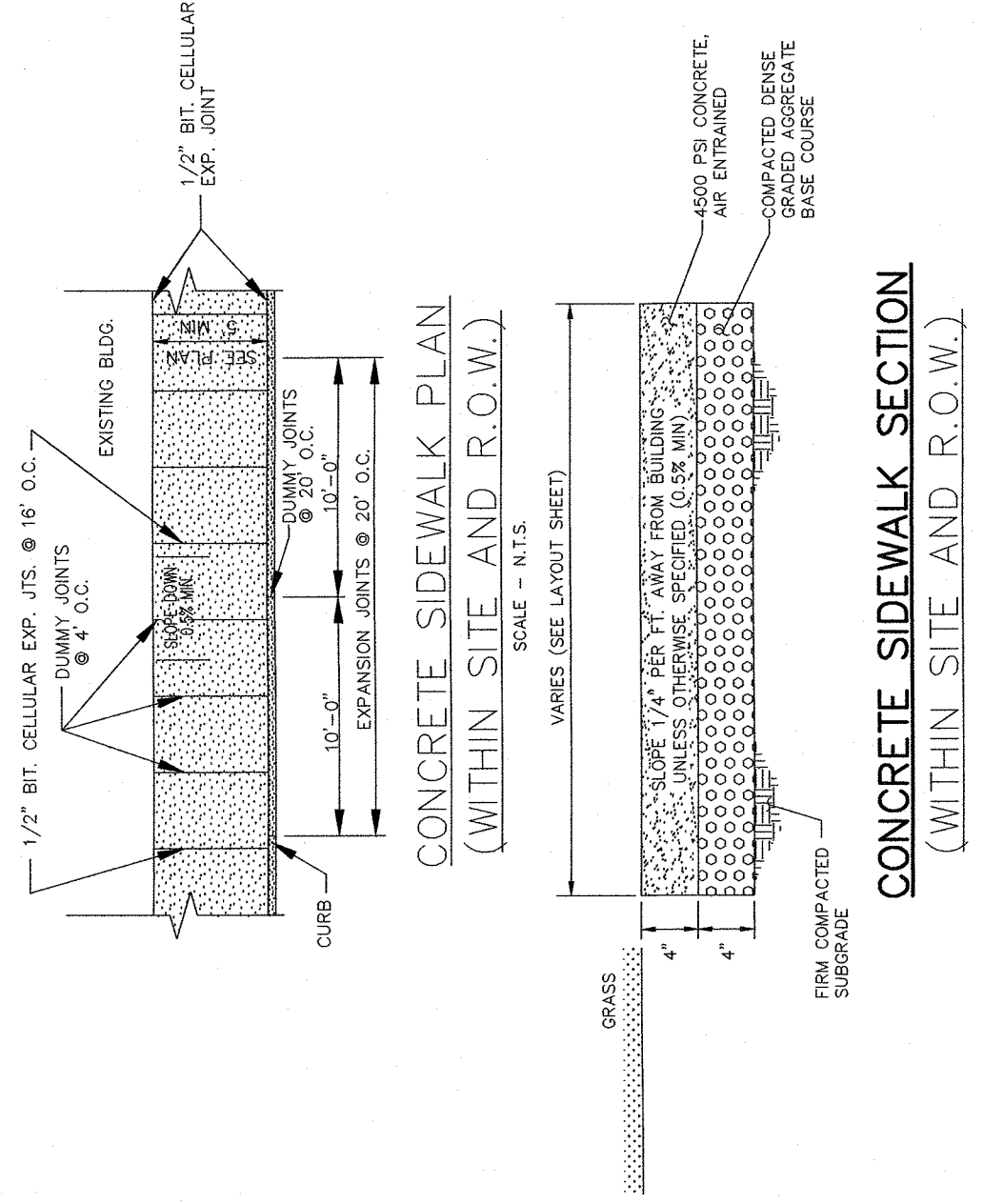
SCALE - N.T.S.



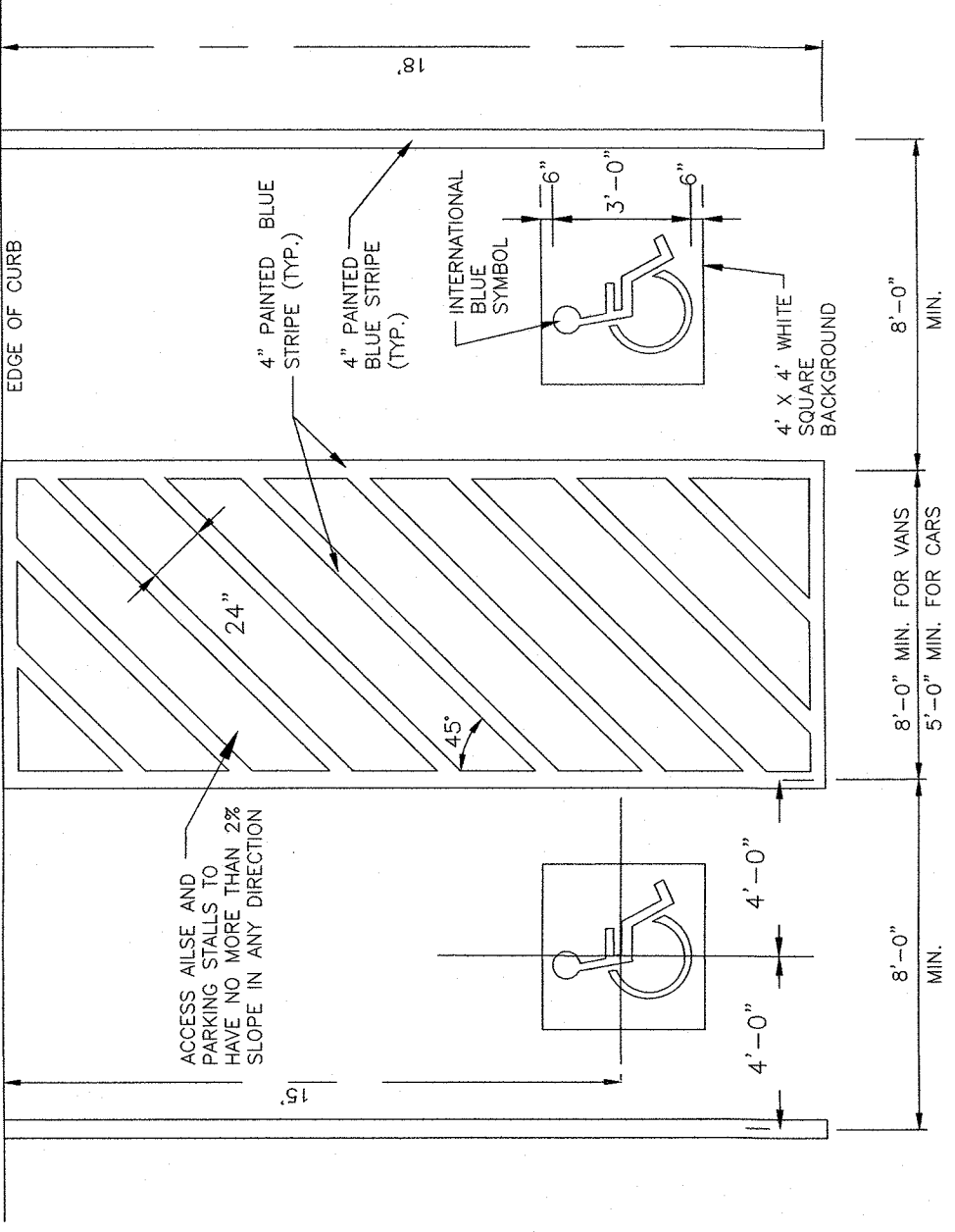
TREE PROTECTION IN CUT AREAS DETAIL
SCALE - N.T.S.



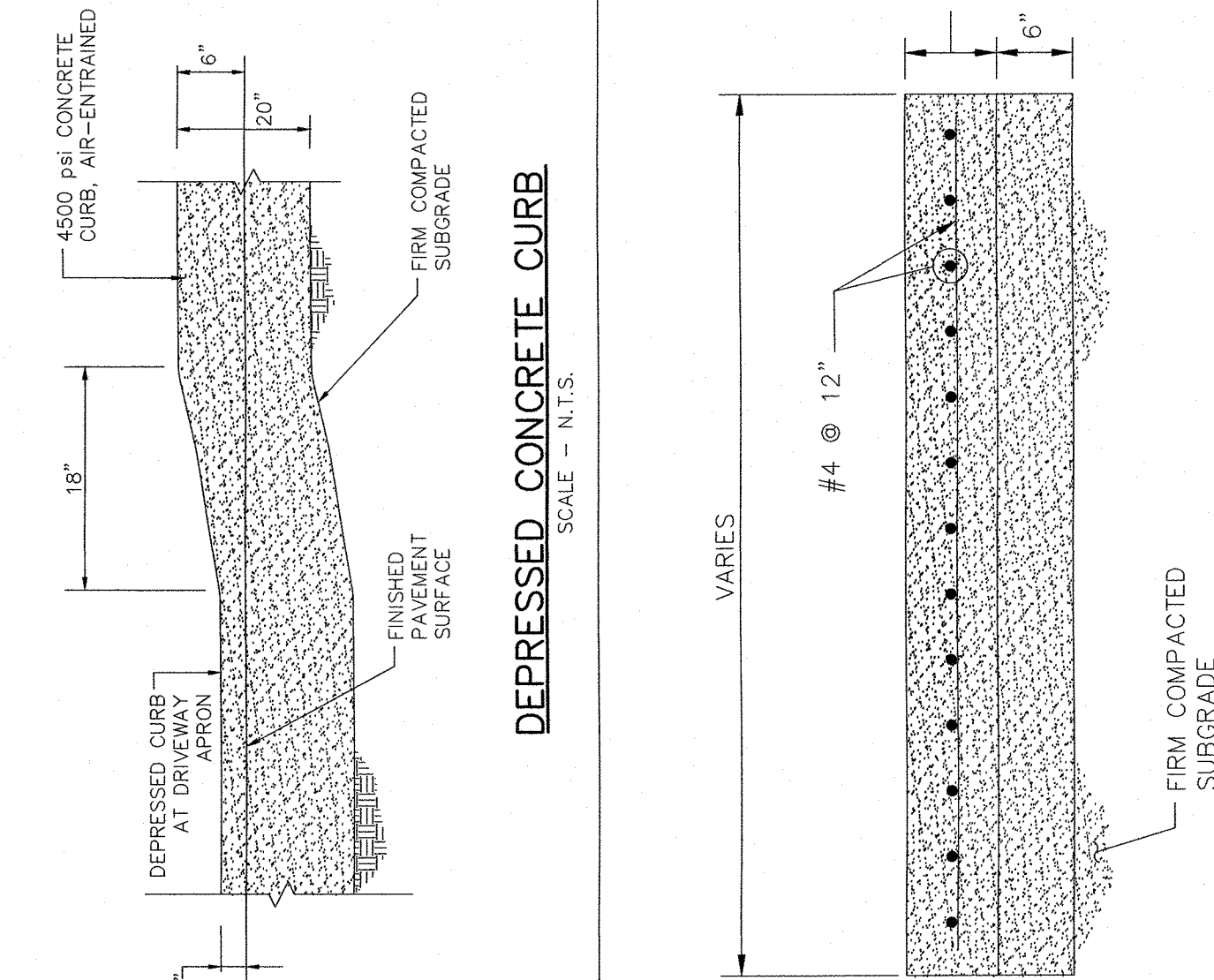
CONCRETE CURB AND FULL DEPTH PAVEMENT



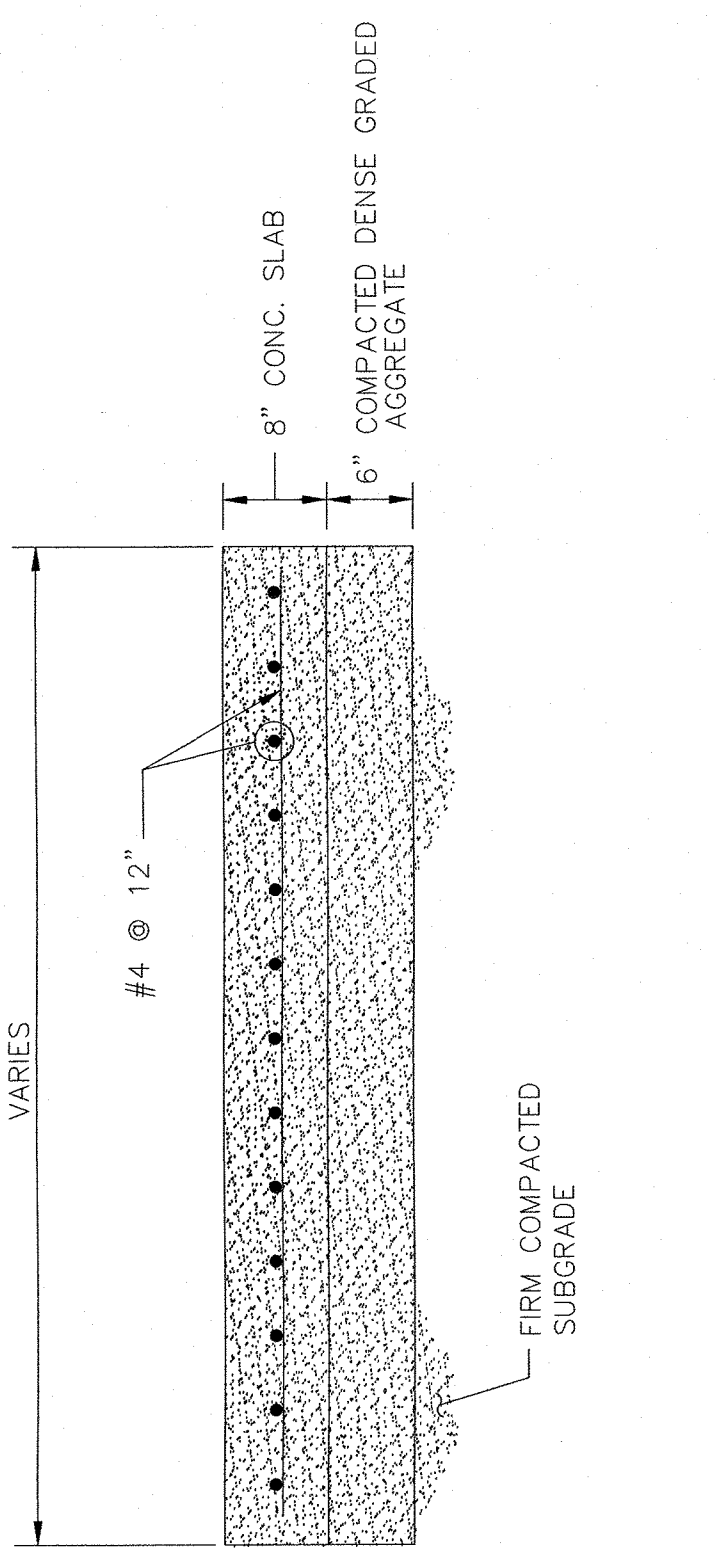
CONCRETE SIDEWALK SECTION
(WITHIN SITE AND R.O.W.)



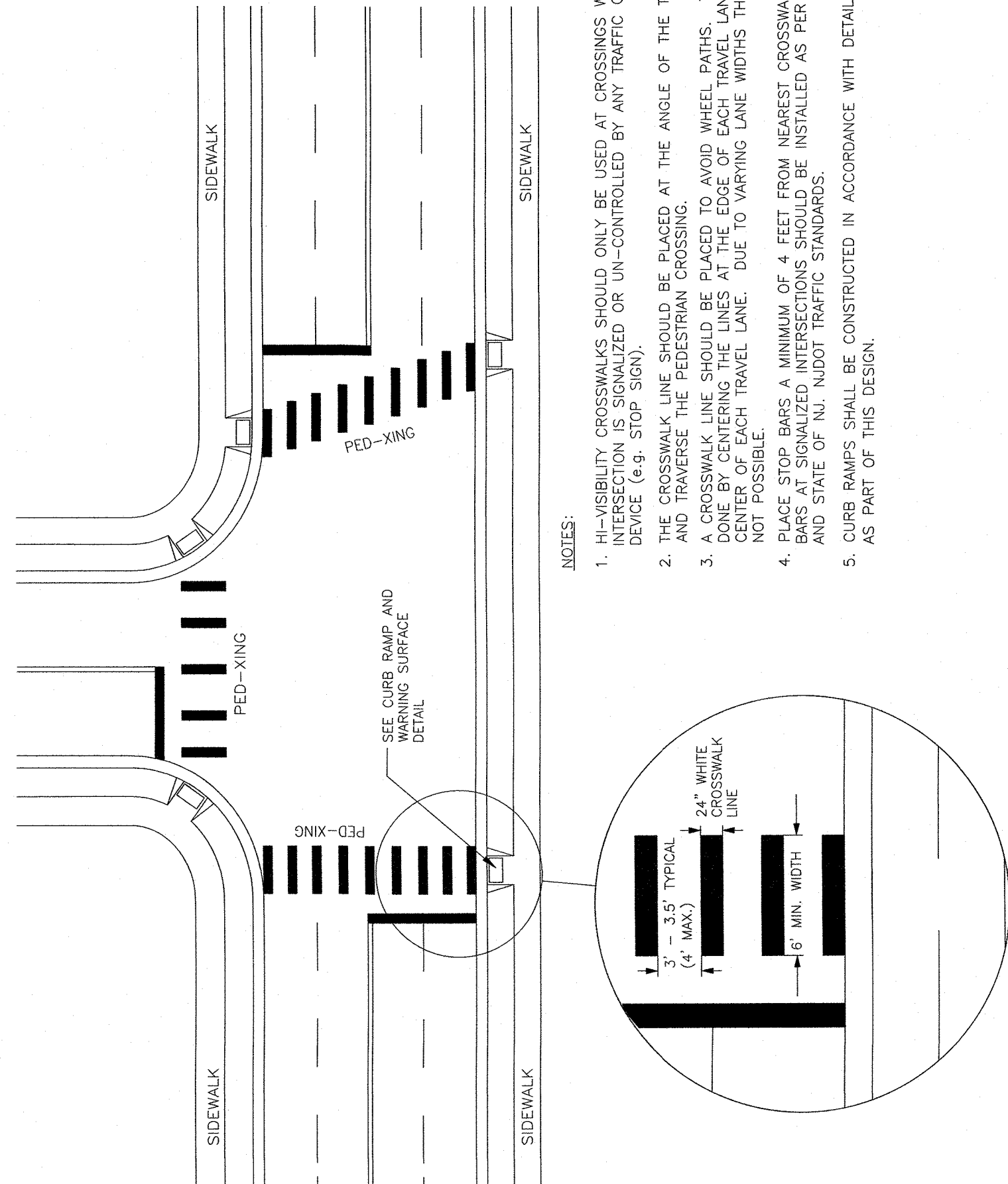
HANDICAP PARKING DIMENSIONS



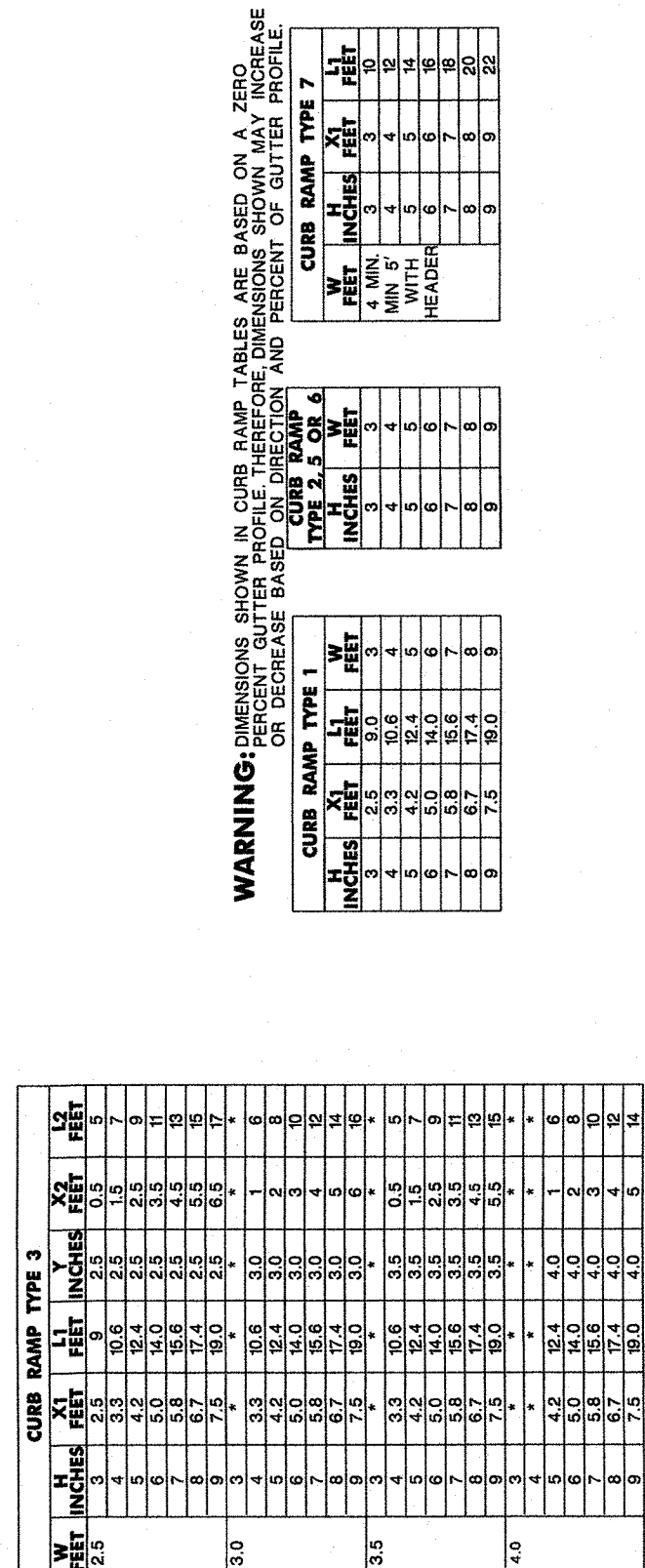
DEPRESSED CONCRETE CURB



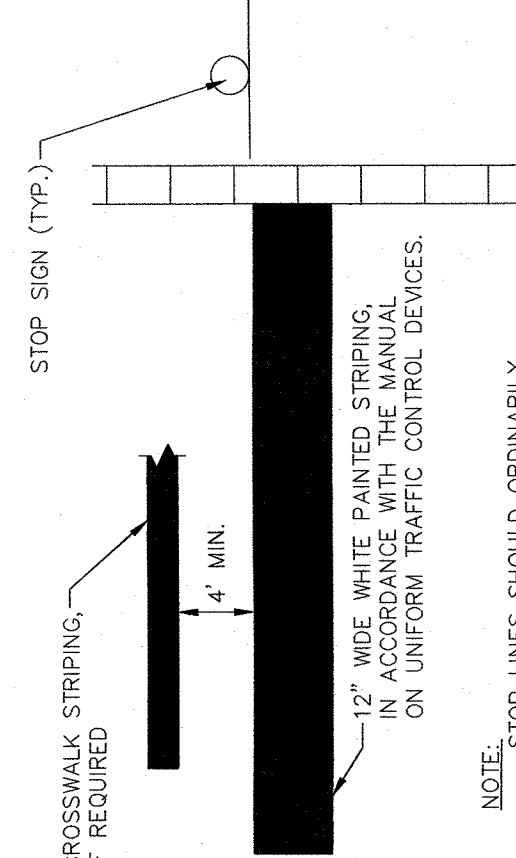
CONC. PAD FOR LOADING DETAIL



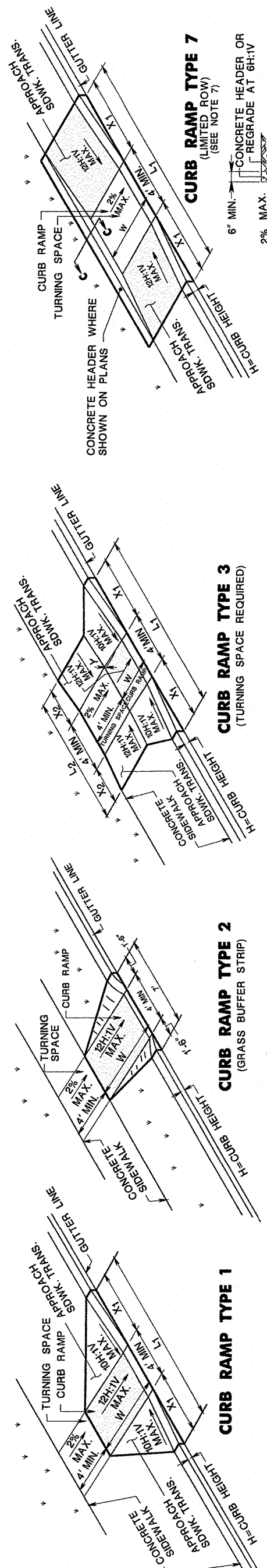
TYPICAL HI-VISIBILITY CROSSWALK PAVEMENT MARKINGS



"STOP BAR" DETAIL



NOTE.
STOP LINES SHOULD ORDINARILY BE PLACED 4 FEET IN ADVANCE OF AND PARALLEL TO THE NEAREST CROSSWALK LINE. IN THE ABSENCE OF A MARKED CROSSWALK, THE "STOP" LINE SHOULD BE PLACED AT THE DESIRED STOPPING POINT, IN NO CASE MORE THAN 300 FEET OR LESS THAN 4 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.



ADA Ramps

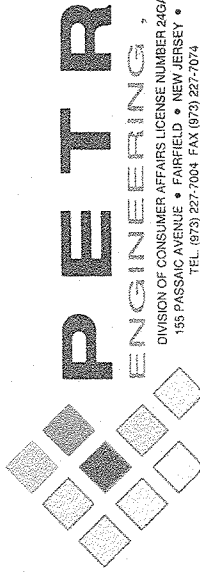
SECTION C-C

CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

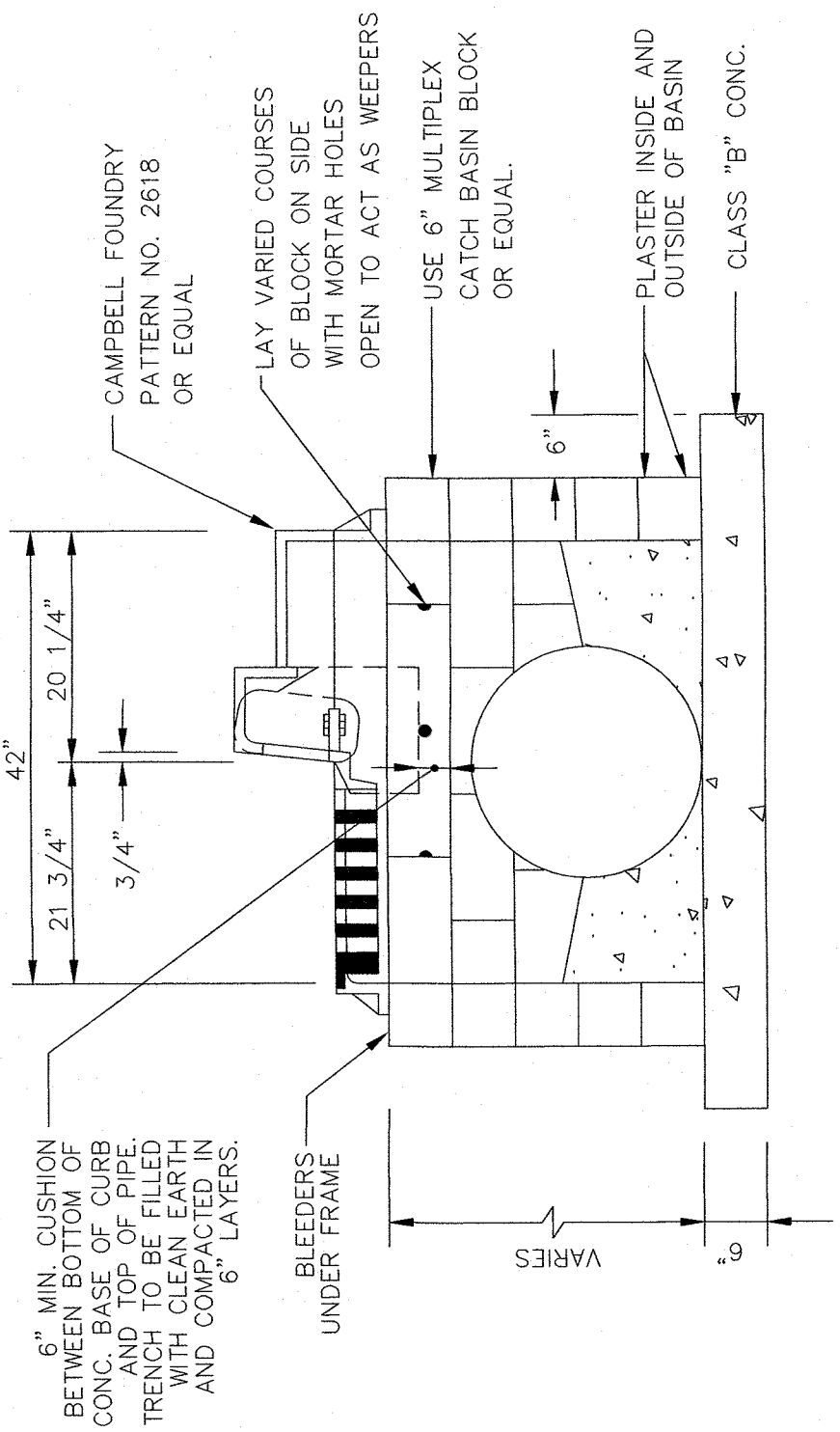
REVISION	DESCRIPTION	DATE	BY
2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	06/20/2022	JMP

PREPARED FOR
DAUGHTERS OF ISRAEL, INC.

CONSTRUCTION DETAILS

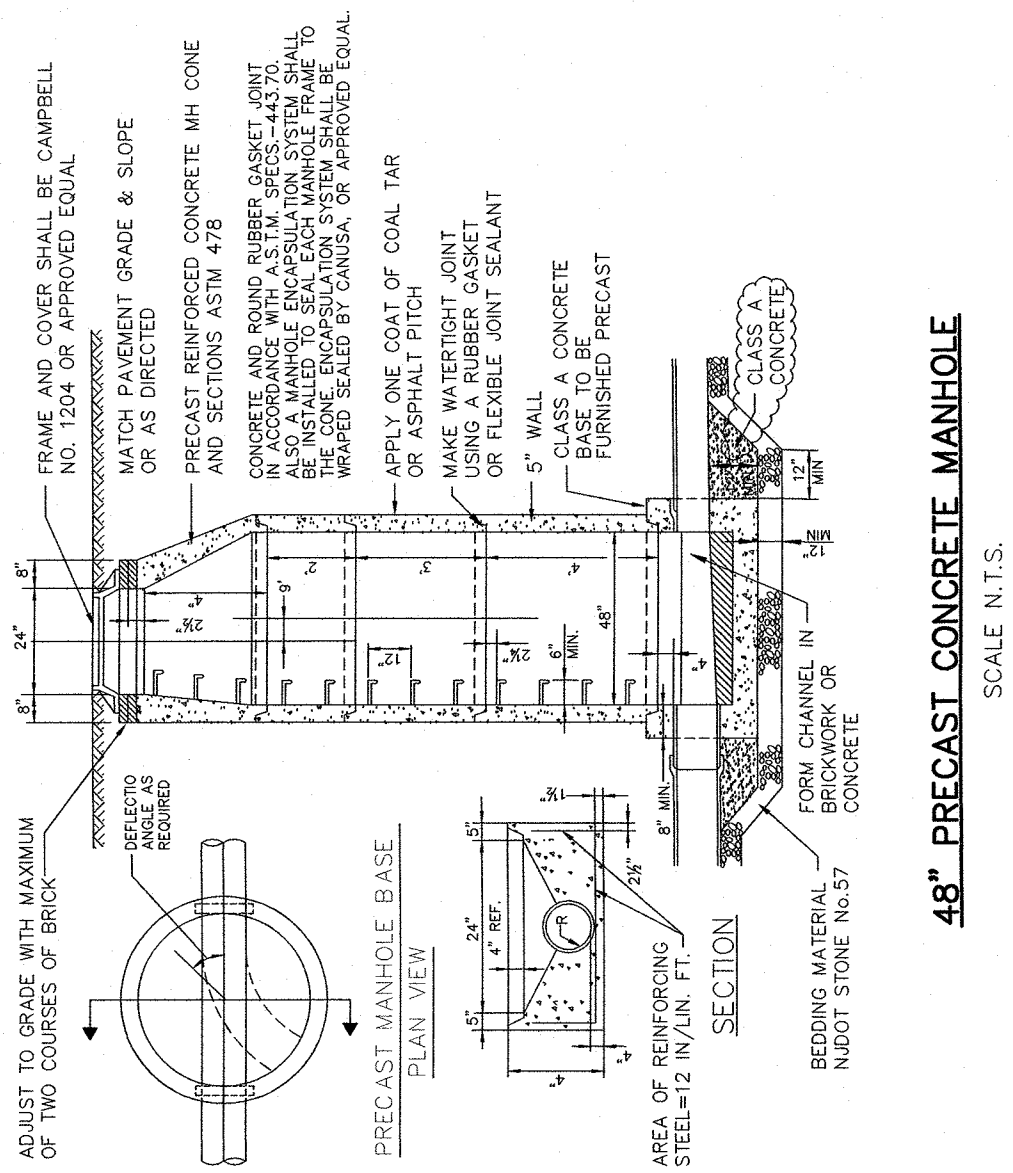



J. MICHAEL PETRY-PE, PP, RA
PROFESSIONAL ENGINEER I.C. No. 36562
DATED: 10/28/2021

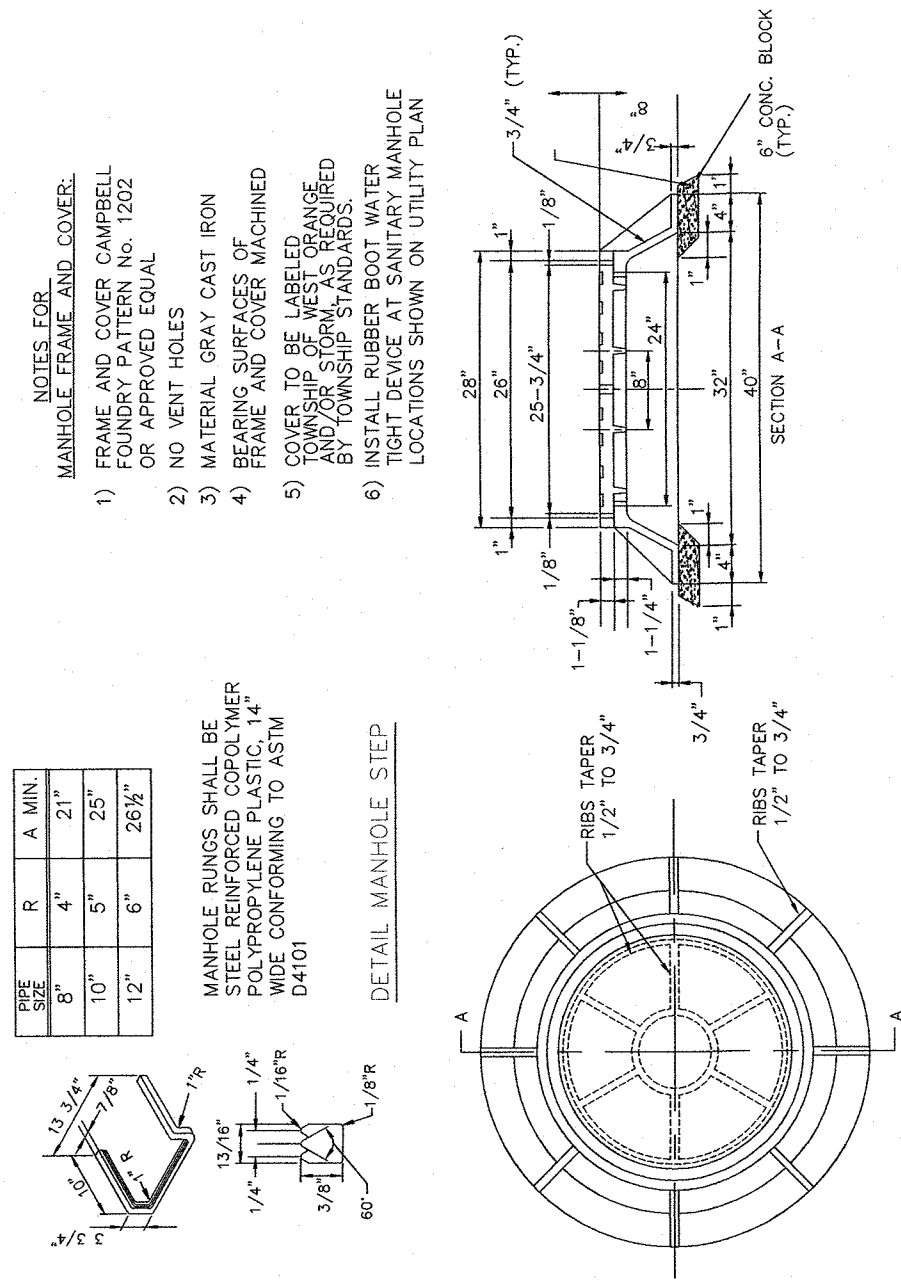


TYPE 'B' INLET DETAIL
(SCALE - N.T.S.)

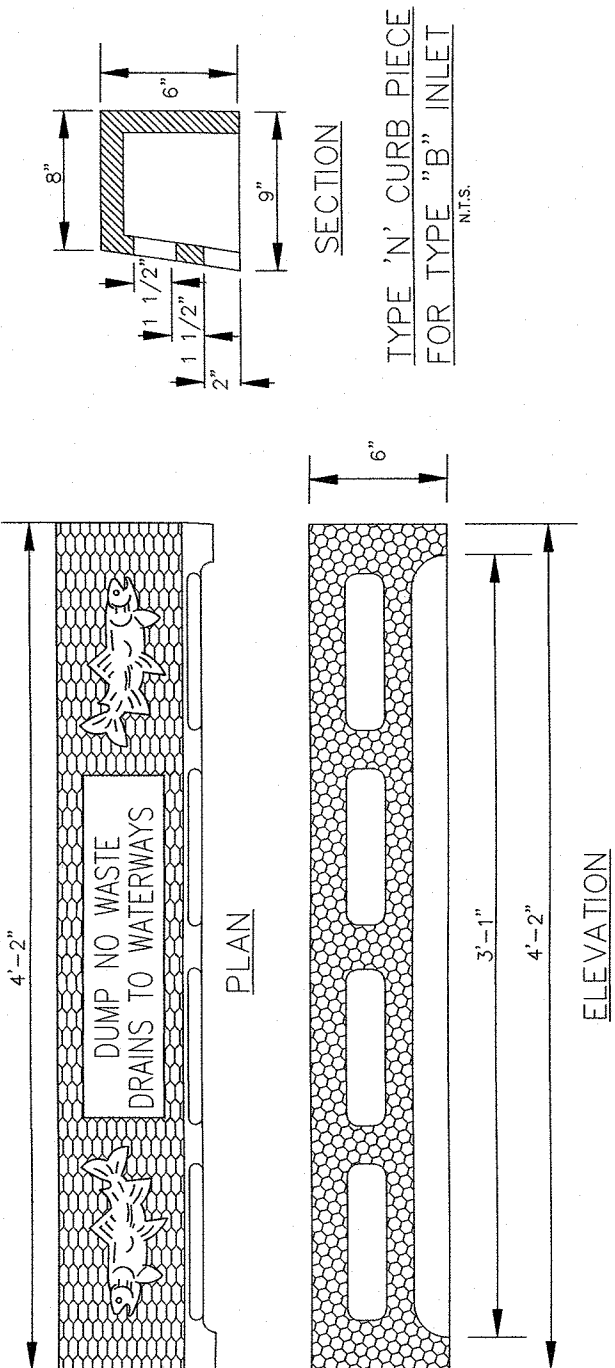
- GENERAL NOTES**
1. INLETS MAY BE CONCRETE, PRECAST CONCRETE, OR CAST-IN-PLACE CONCRETE. WALLS SHALL BE CONSTRUCTED TO A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE INLET.
 2. ALL INLETS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE.
 3. ALL INLETS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE.
 4. ALL INLETS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE.
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 9. ALL INLETS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE.
 10. ALL INLETS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE. INLET FOUNDATIONS SHALL BE CLASS B CONCRETE.



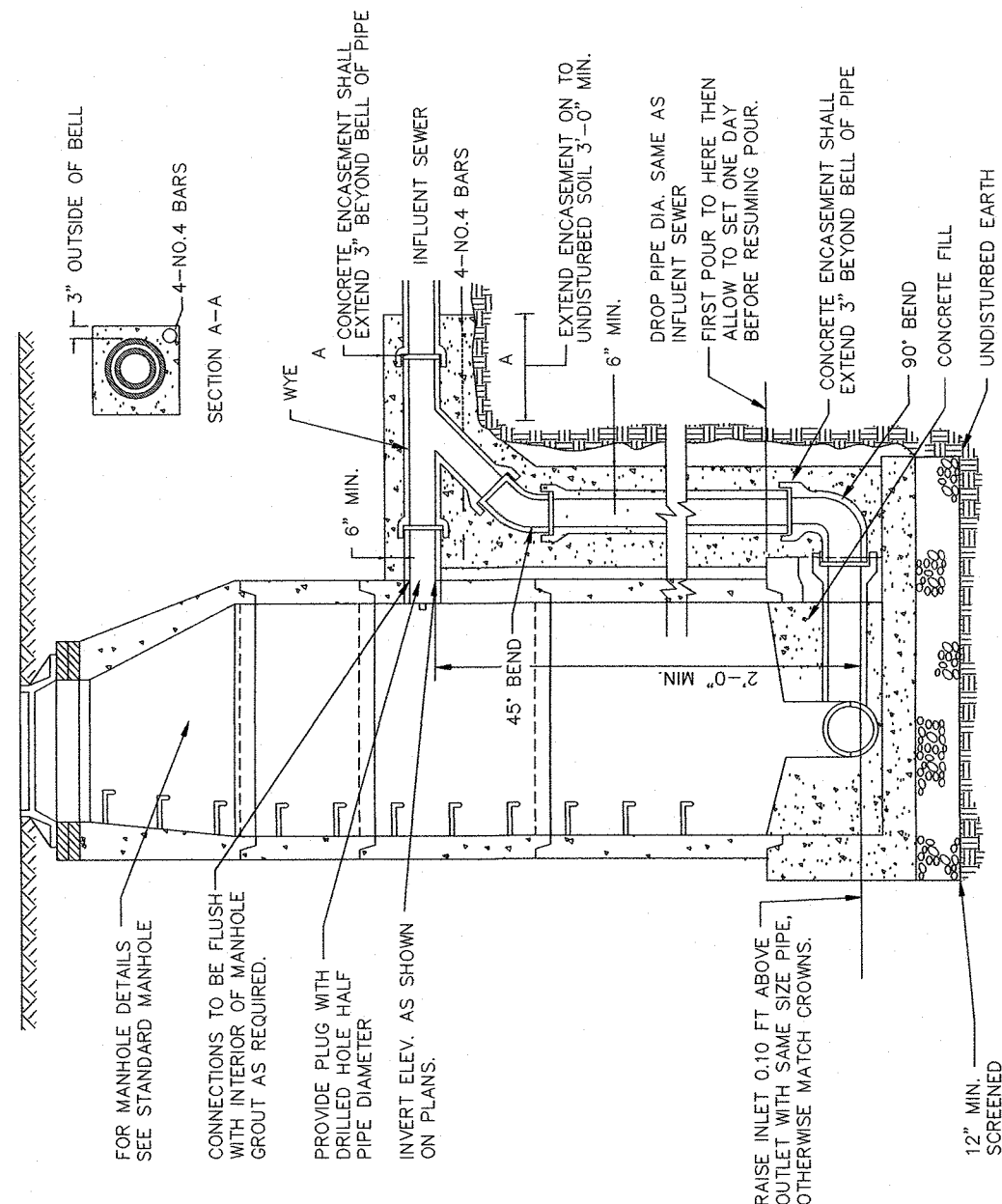
48\"/>



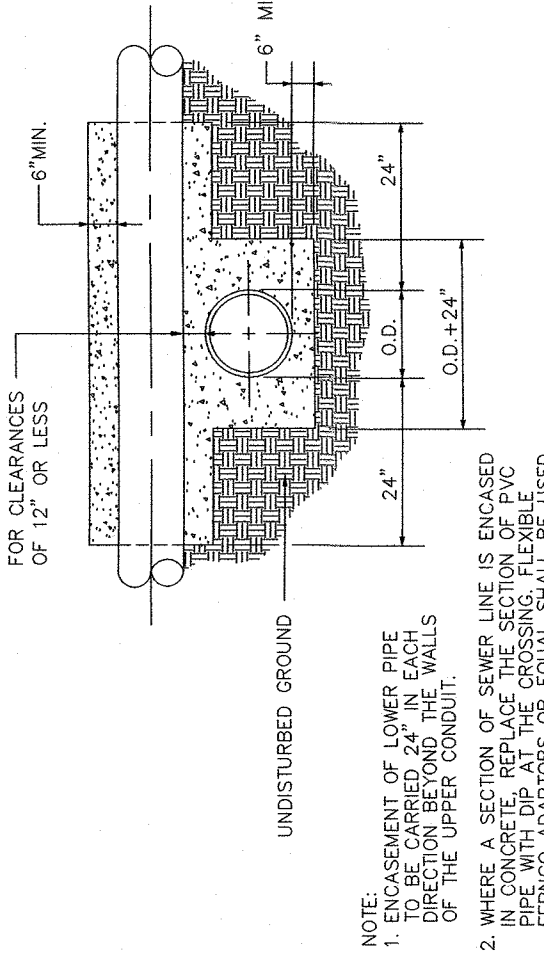
STANDARD MANHOLE FRAME & COVER DETAIL
(SCALE - N.T.S.)



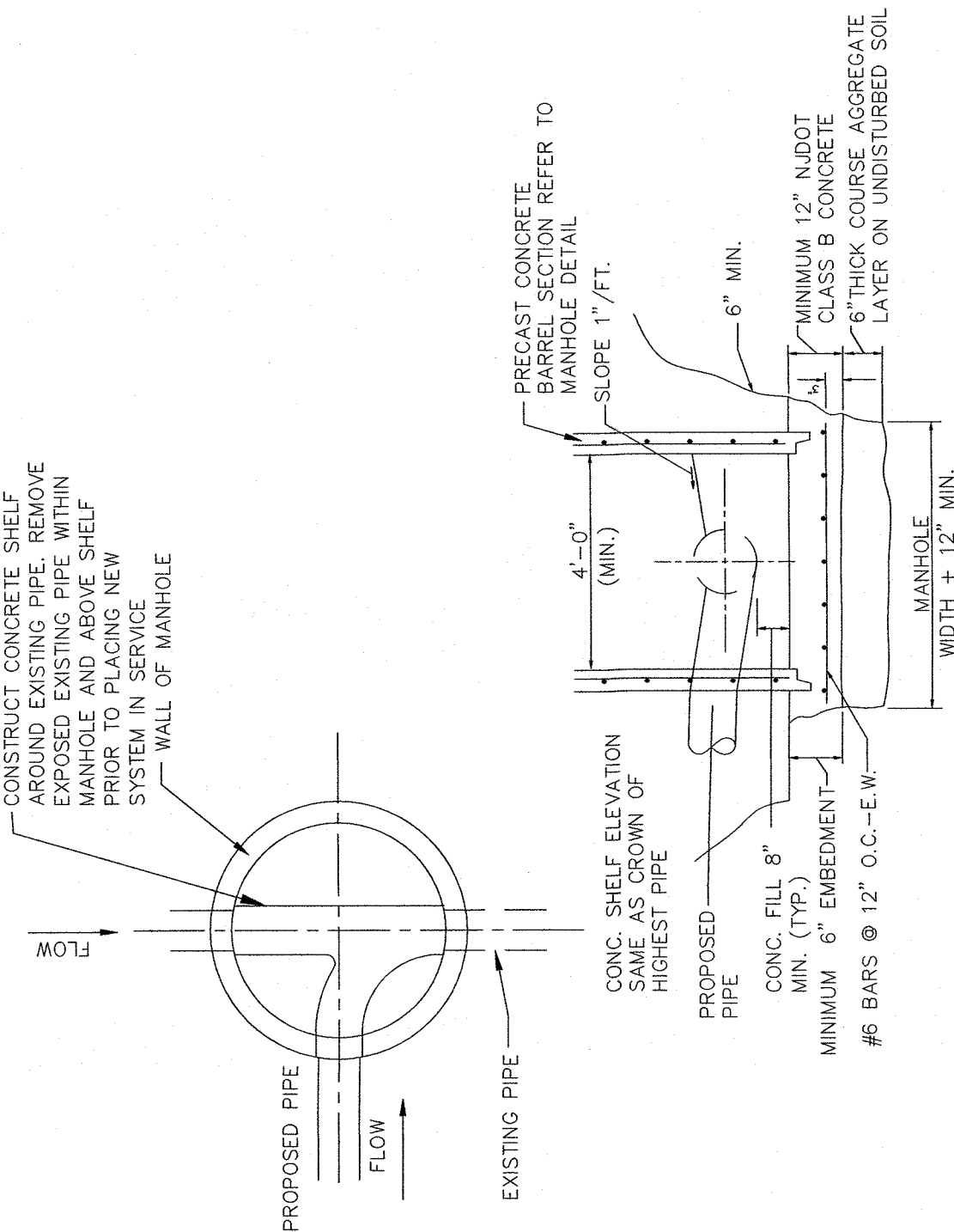
TYPE 'N' CURB PIECE
FOR TYPE 'B' INLET



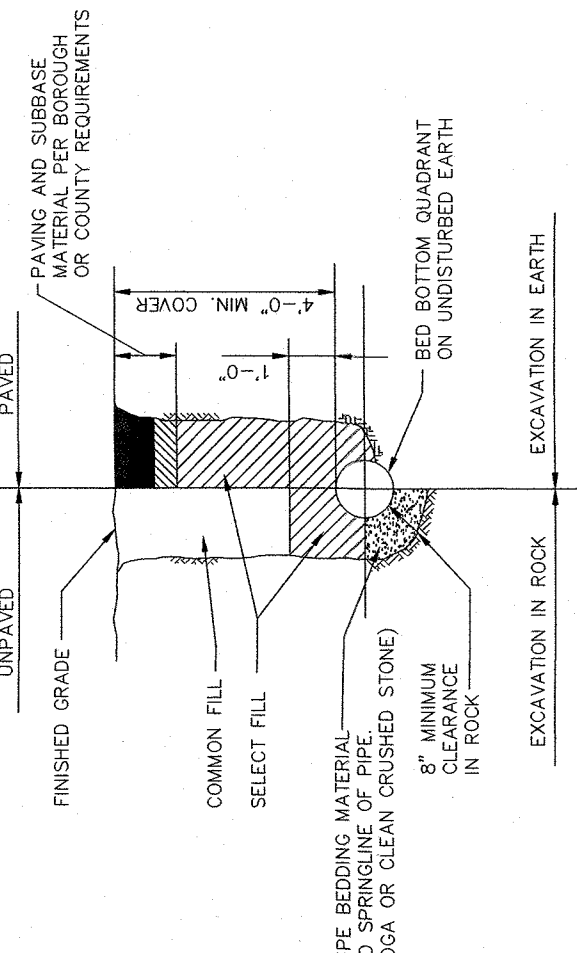
SANITARY SEWER DROP MANHOLE DETAIL
(SCALE - N.T.S.)



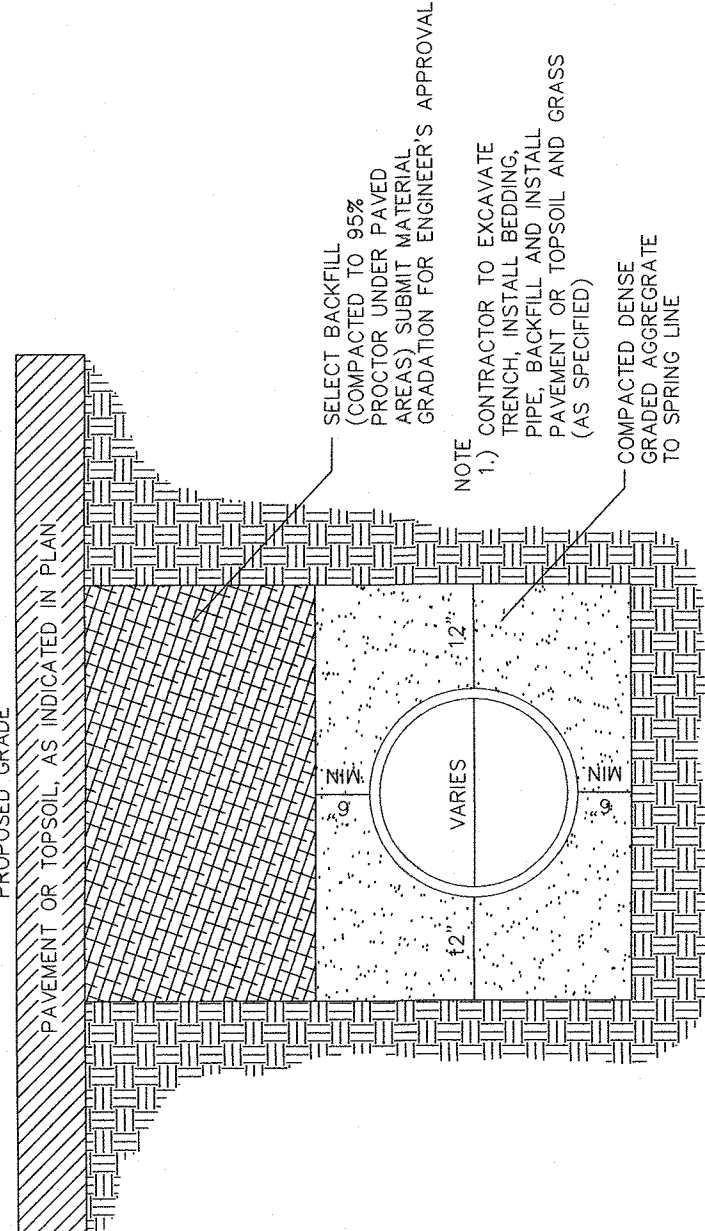
UTILITY CROSSING
(SCALE - N.T.S.)



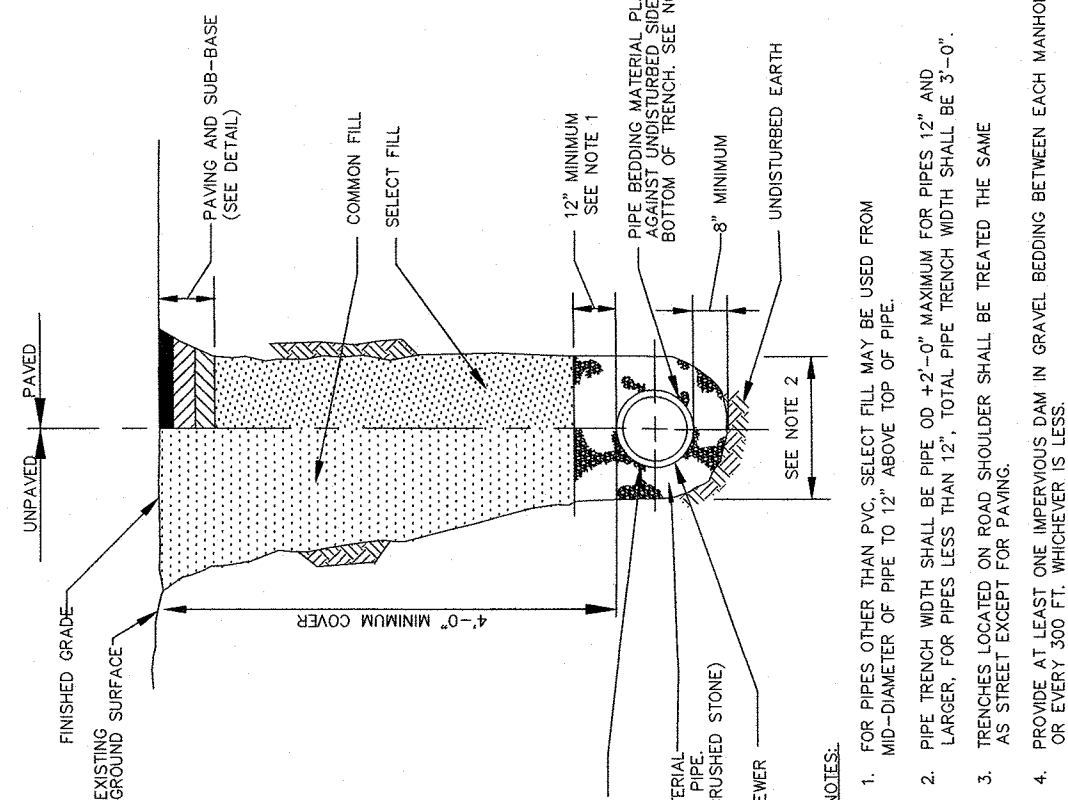
DOGHOUSE STRUCTURE (IF REQUIRED)
(SCALE - N.T.S.)



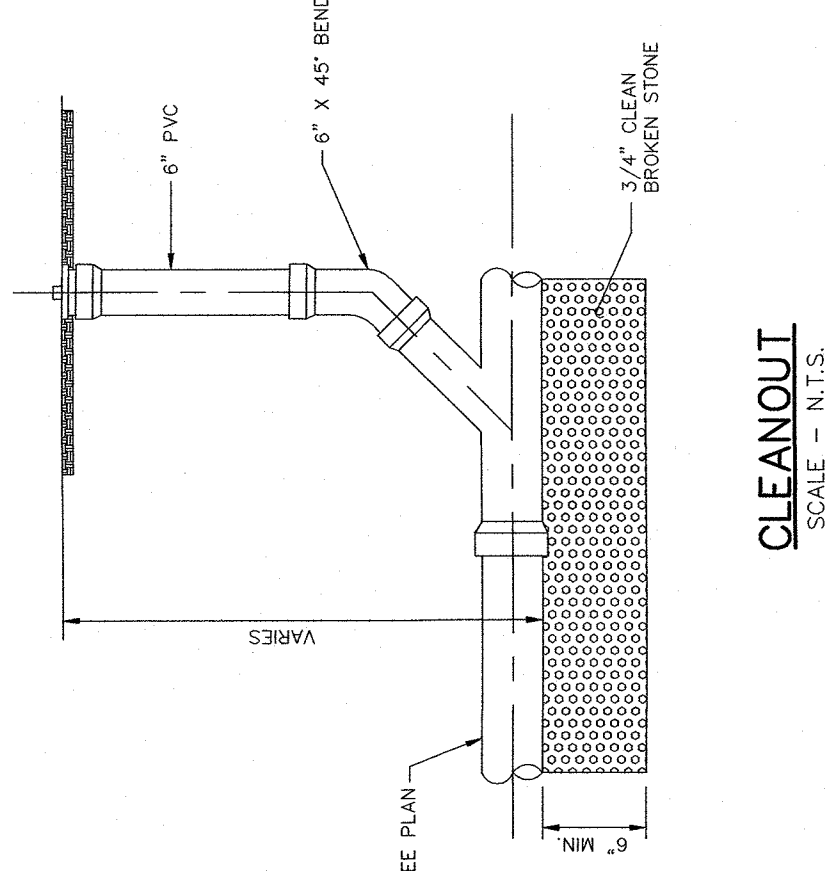
TYPICAL TRENCH DETAIL FOR UTILITIES
(SCALE - N.T.S.)



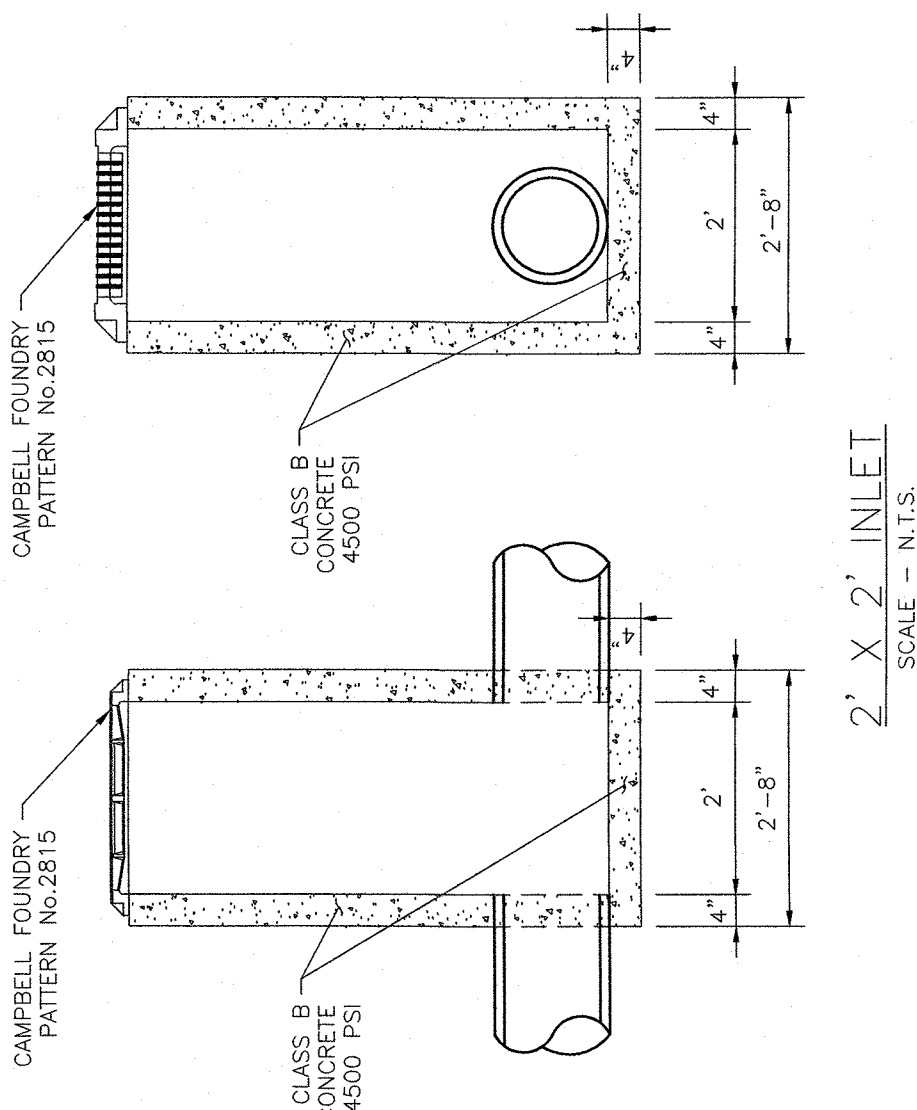
STORM SEWER PIPE TRENCH DETAIL
(SCALE - N.T.S.)



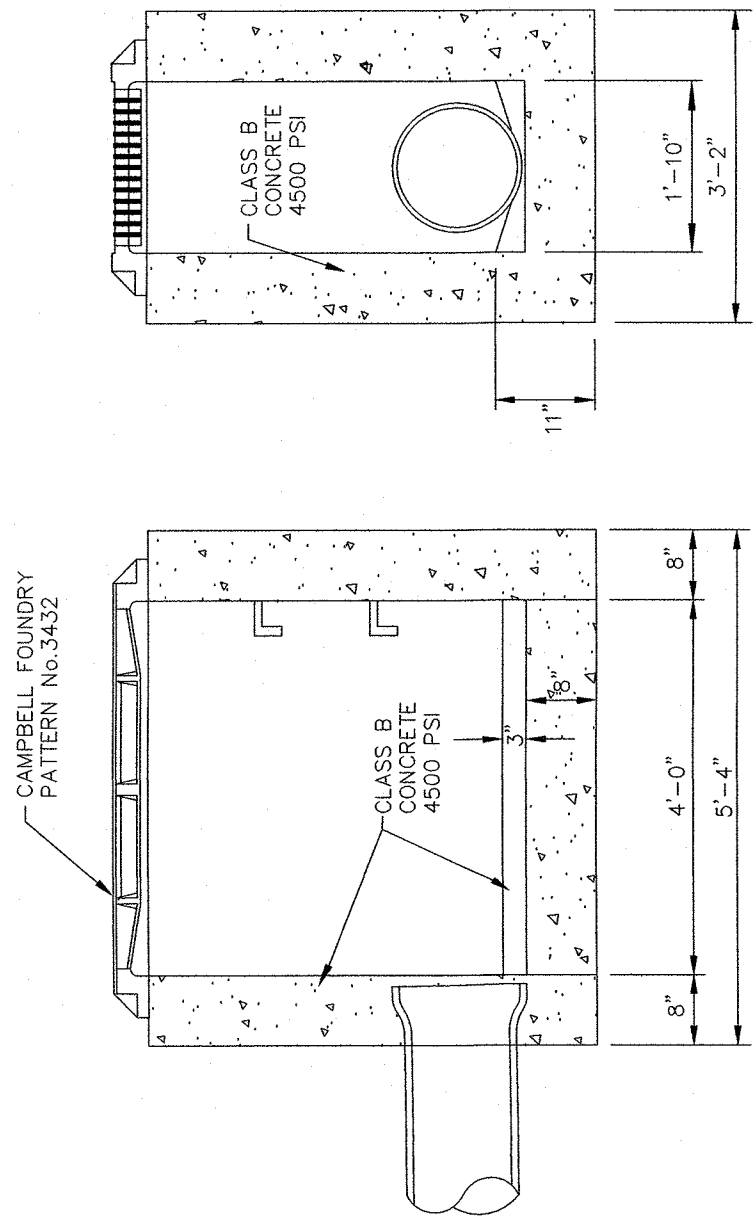
TYPICAL TRENCH DETAIL FOR PVC
36\"/>



CLEANOUT
(SCALE - N.T.S.)



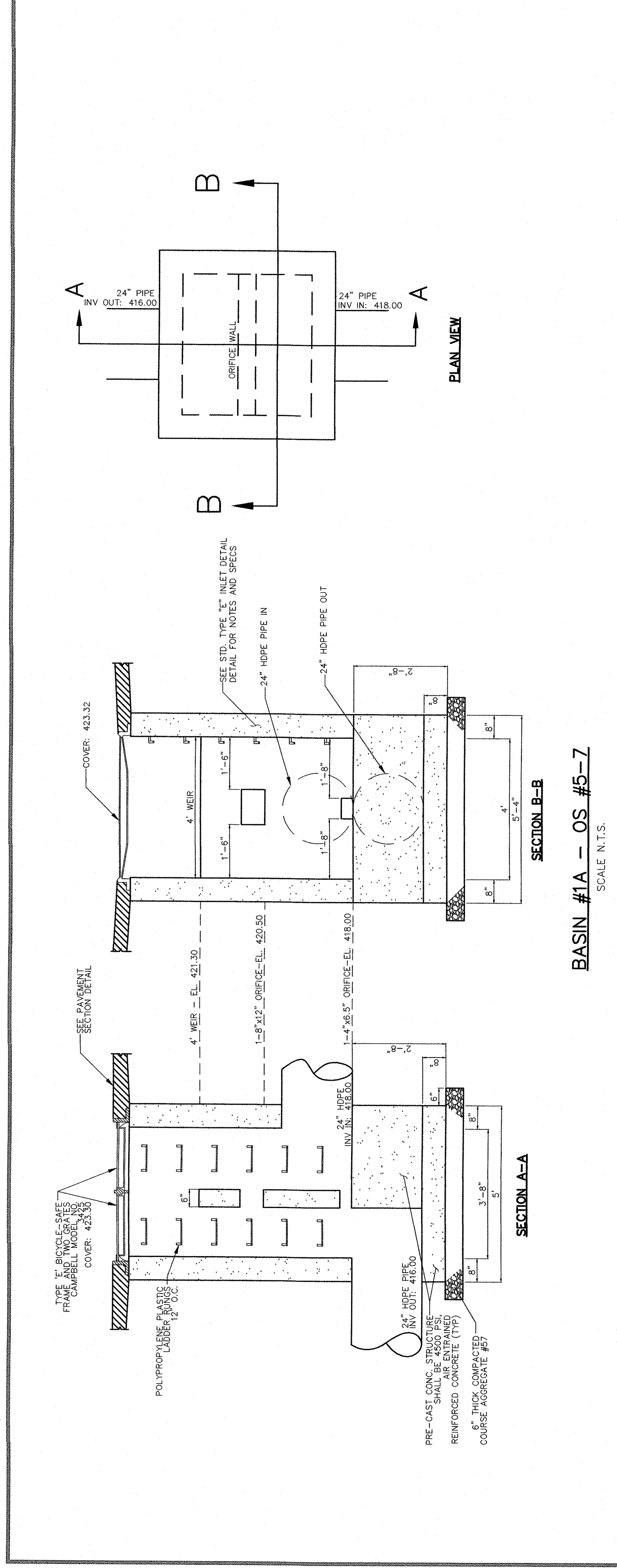
TYPE 'A' INLET DETAIL
(SCALE - N.T.S.)



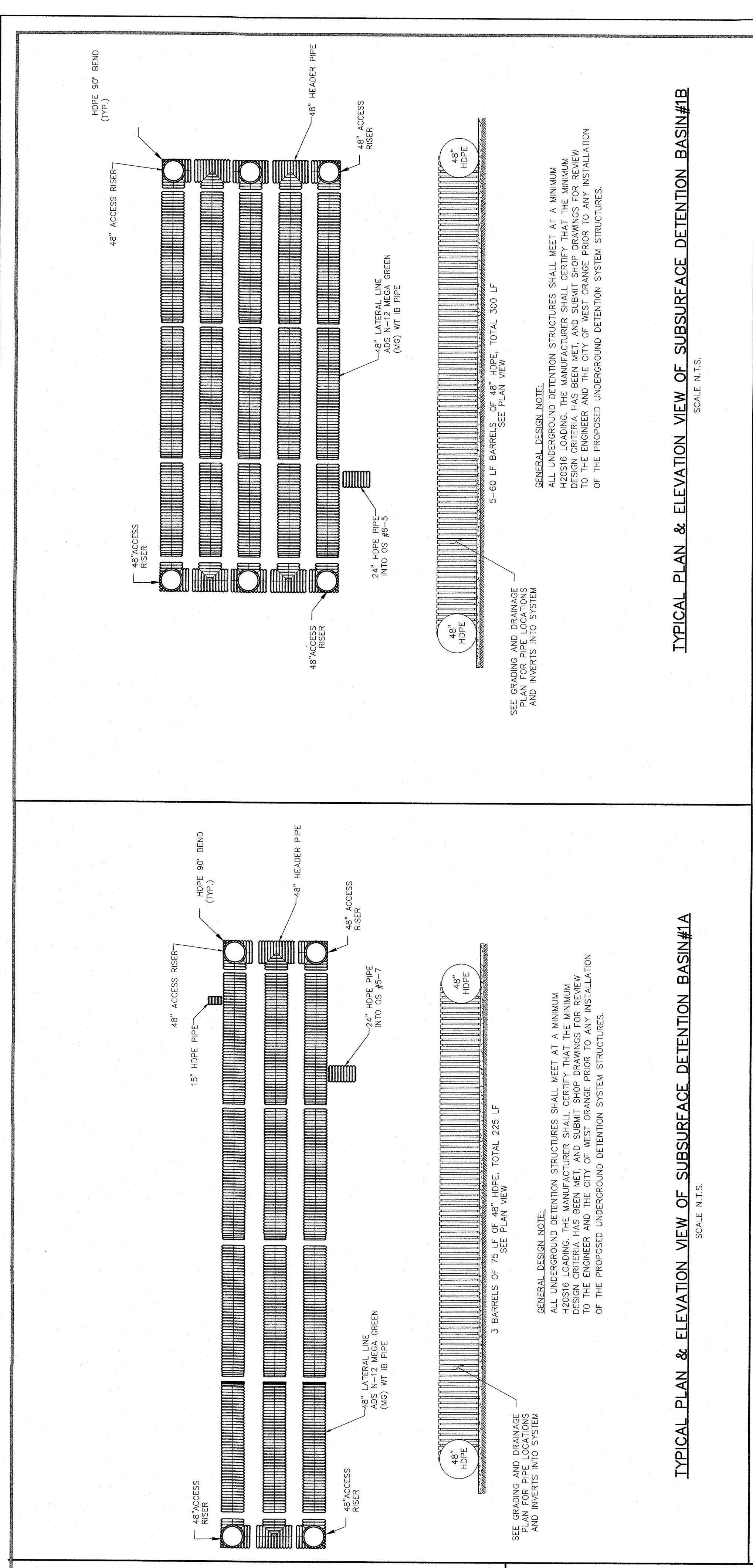
TYPE 'A' INLET DETAIL
(SCALE - N.T.S.)

2	REVISED PER BOARD ENGINEER COMMENTS	11/30/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	03/30/2022	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1155 PLEASANT VALLEY WAY BLOCK 17, LOT 12 TOWN OF NEW CANOE ESSEX COUNTY, NEW JERSEY			
CONSTRUCTION DETAILS			
P E T R Y ENGINEERING, LLC 180 HUNTERS LANE, SUITE 200 ROSELAND, NJ 07068 (973) 261-1100 WWW.PETRYENGINEERING.COM			
J. MICHAEL PETRY-PE, P.E., P.A. N.J. PROFESSIONAL ENGINEER, LIC. NO. 98682 DATED: 10/30/2021			
SP-20			

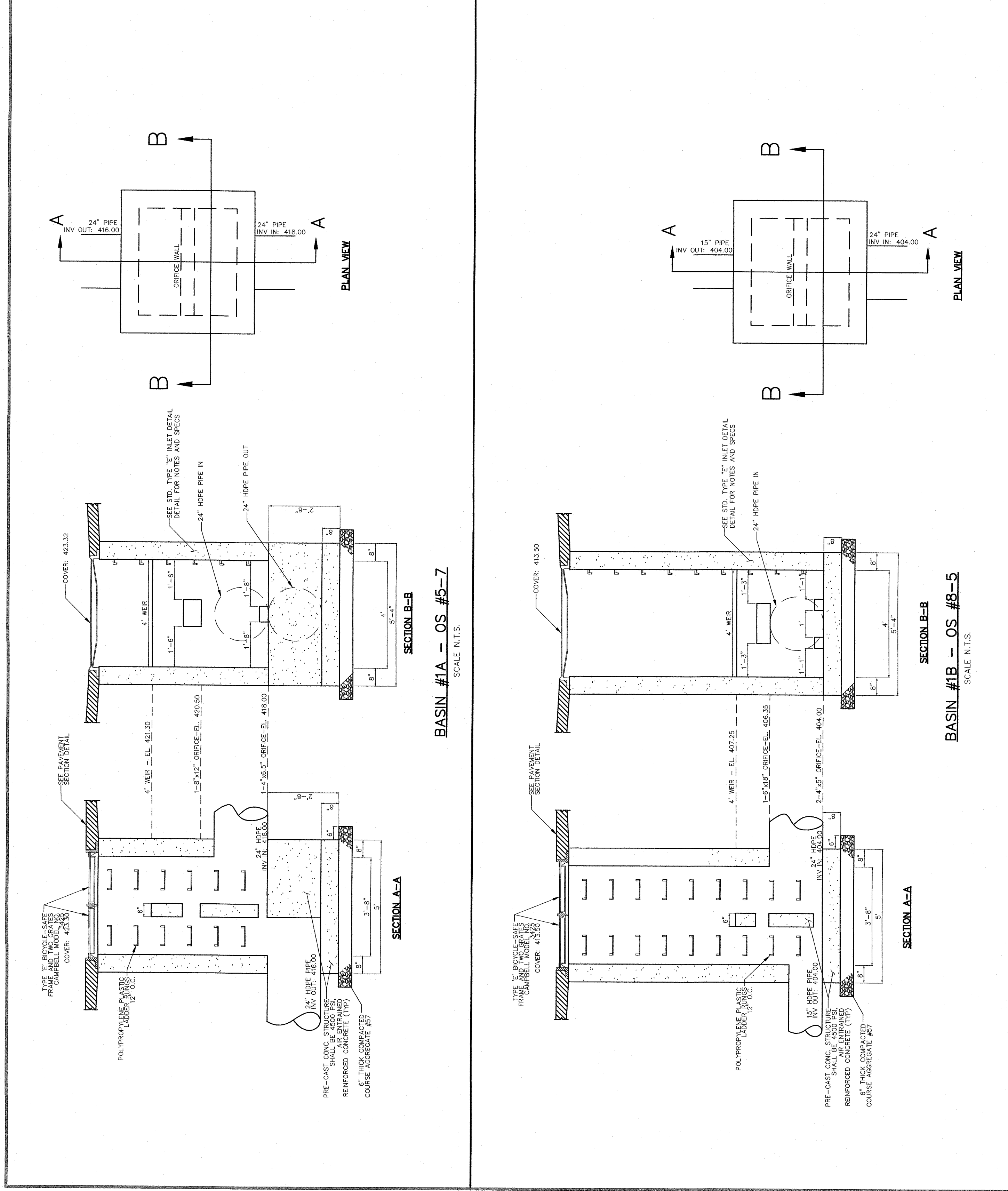
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED
PETER'S SEAL, THIS DOCUMENT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.



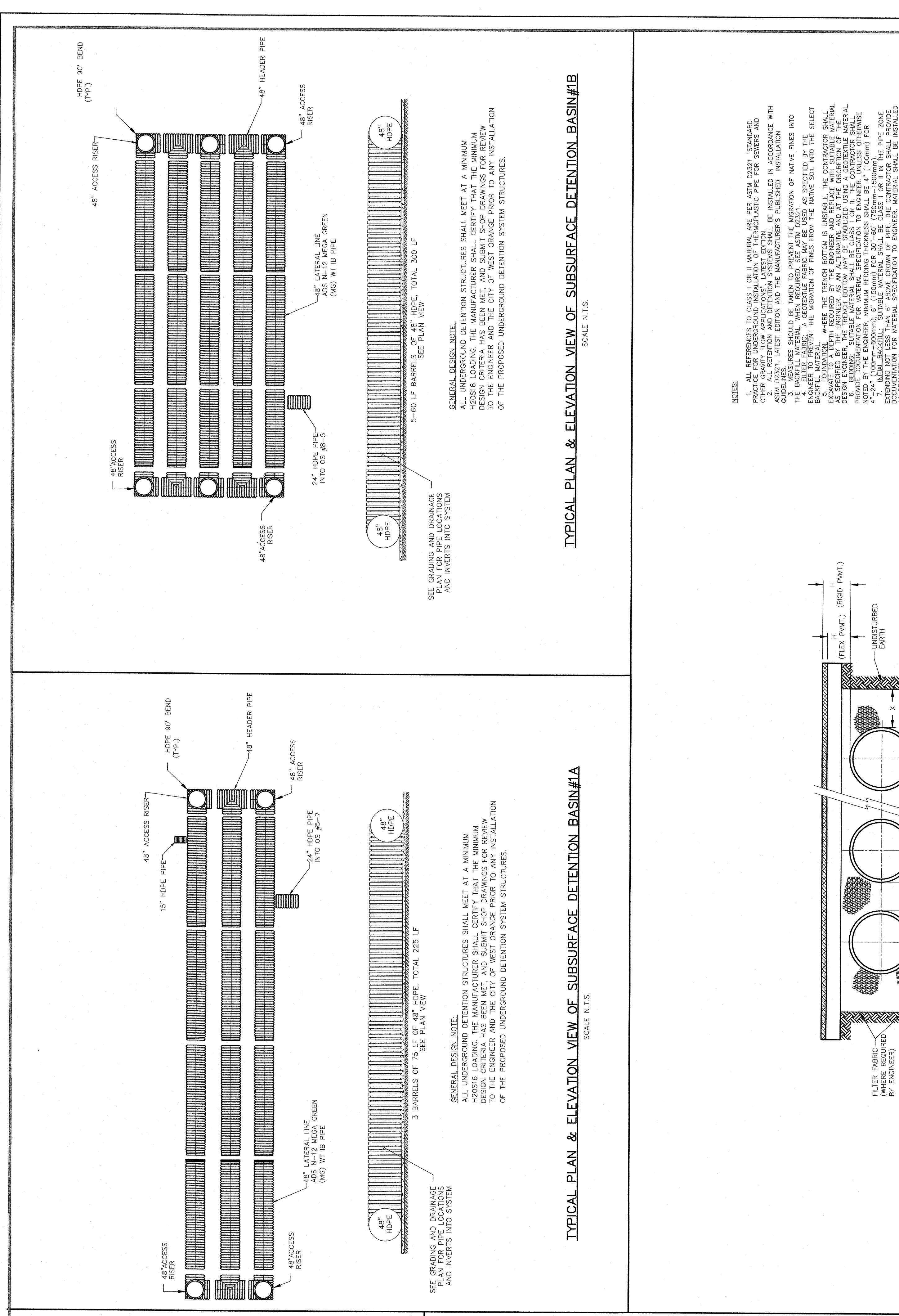
BASIN #1A - OS #5-Z



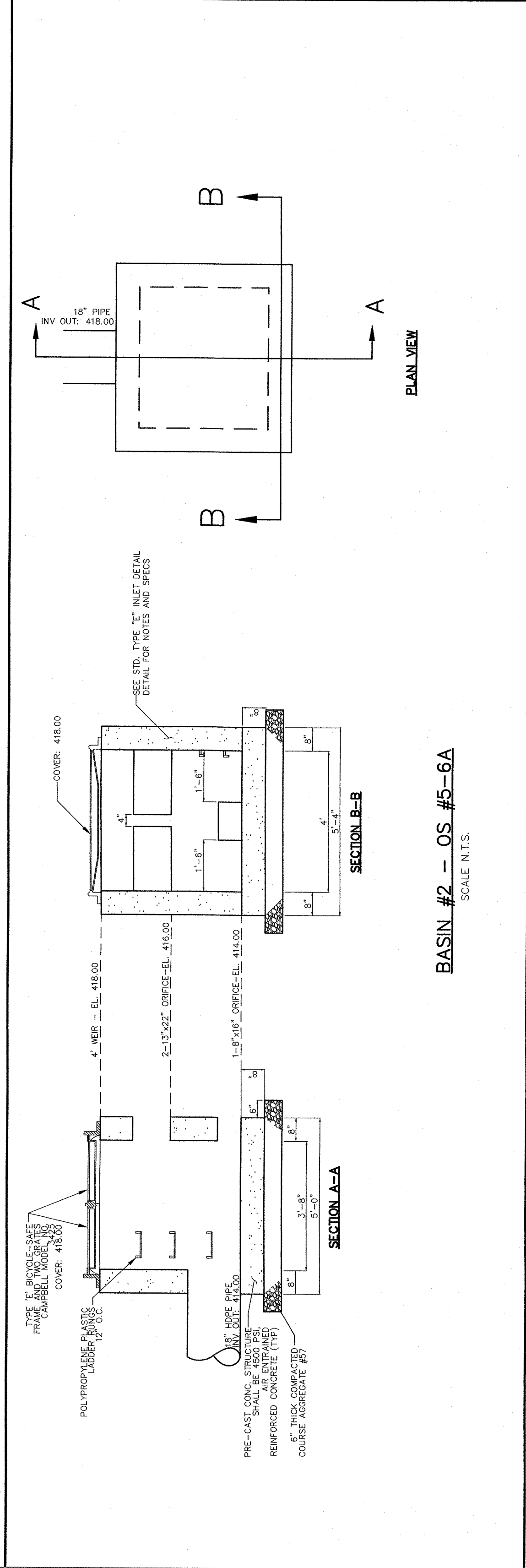
TYPICAL PLAN & ELEVATION VIEW OF SUBSURFACE DETENTION BASIN #1A



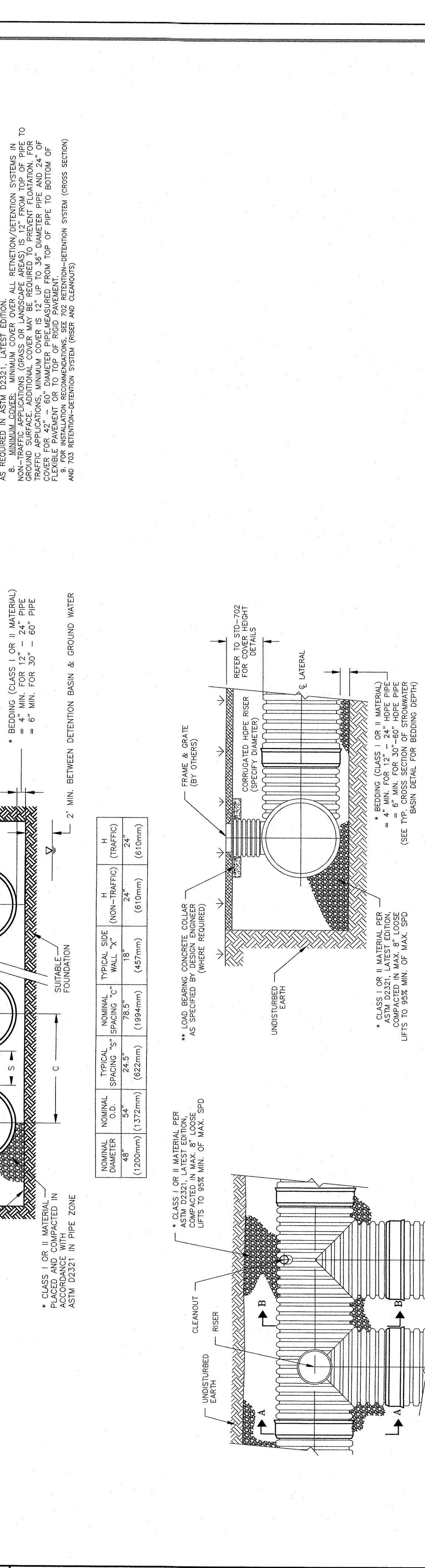
BASIN #1B - OS #5-5



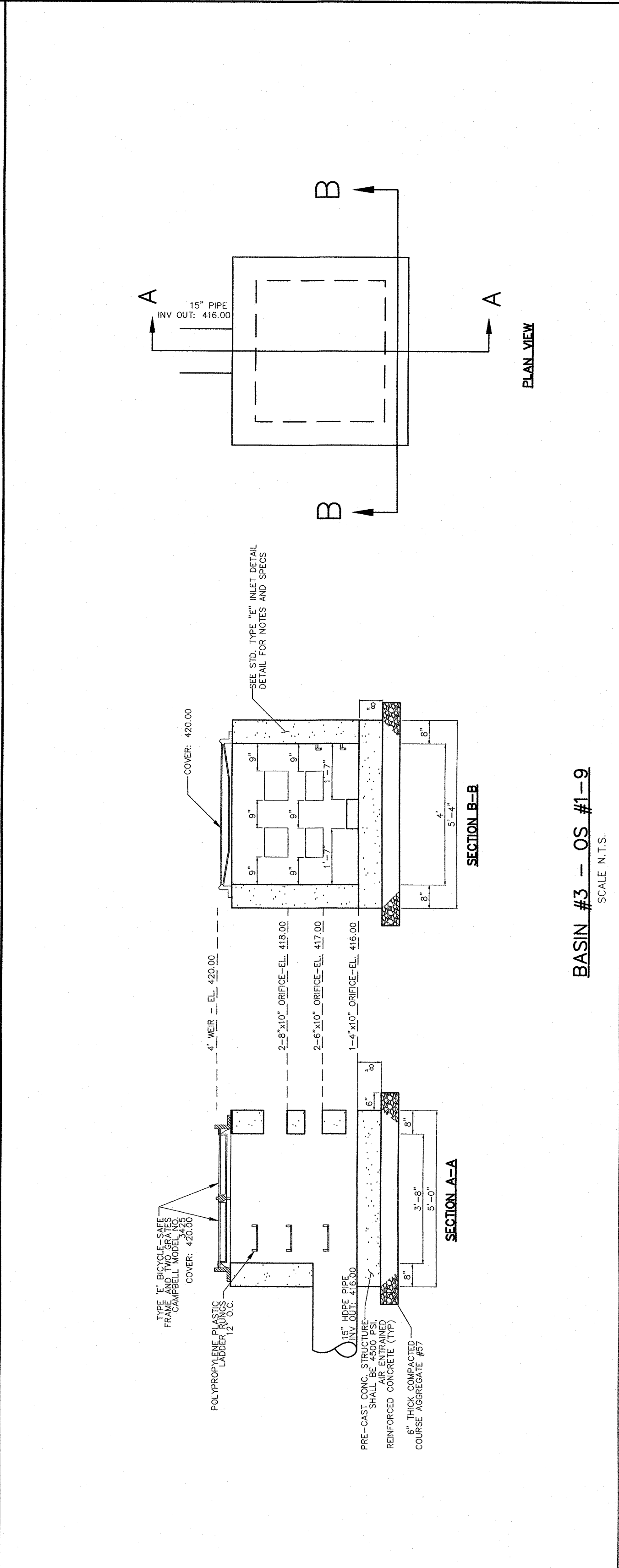
TYPICAL PLAN & ELEVATION VIEW OF SUBSURFACE DETENTION BASIN #1B



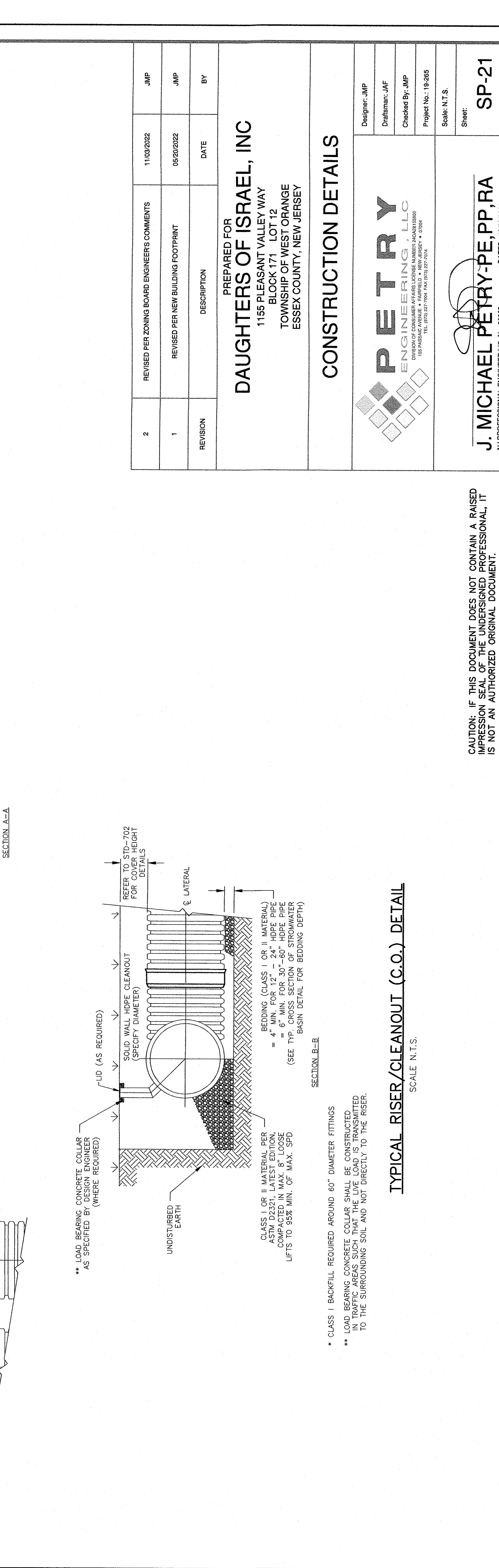
BASIN #2 - OS #5-6A



TYPICAL PLAN & ELEVATION VIEW OF SUBSURFACE DETENTION BASIN #1A



BASIN #3 - OS #1-9



TYPICAL RISER/CLEANOUT (C.O.) DETAIL

DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

CONSTRUCTION DETAILS

DESIGNER: JAP
CHECKED: JAP
CREATED BY: JAP
PROJECT NO: 18-245
Scale: N.T.S.

J. MICHAEL PETRY, P.E., P.P.R.A.
REGISTERED PROFESSIONAL ENGINEER, N.J. No. 3686
DATED: 10/26/2017

SP-21

- NOTES:
1. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2221 "STANDARD SPECIFICATION FOR POLYETHYLENE PIPE FOR SEWER AND RAINFALL APPLICATIONS".
 2. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2221 "STANDARD SPECIFICATION FOR POLYETHYLENE PIPE FOR SEWER AND RAINFALL APPLICATIONS".
 3. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2221 "STANDARD SPECIFICATION FOR POLYETHYLENE PIPE FOR SEWER AND RAINFALL APPLICATIONS".
 4. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2221 "STANDARD SPECIFICATION FOR POLYETHYLENE PIPE FOR SEWER AND RAINFALL APPLICATIONS".
 5. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2221 "STANDARD SPECIFICATION FOR POLYETHYLENE PIPE FOR SEWER AND RAINFALL APPLICATIONS".
 6. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2221 "STANDARD SPECIFICATION FOR POLYETHYLENE PIPE FOR SEWER AND RAINFALL APPLICATIONS".
 7. ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2221 "STANDARD SPECIFICATION FOR POLYETHYLENE PIPE FOR SEWER AND RAINFALL APPLICATIONS".
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CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED CAUTION, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

MODULAR BLOCK WALLS SHALL BE CONSTRUCTED WITH STANDARD WALL UNITS AS MANUFACTURED BY KEystone RETAINING WALL SYSTEMS, INC OR ACCEPTED EQUAL. COORDINATE AND COLOR OF UNITS WITH OWNER.

- COORDINATE STYLE AND COLOR OF UNITS WITH OWNER.
- WALLS SHALL STEP IN ELEVATION AT BOTH TOP AND BOTTOM AS REQUIRED TO CONFORM WITH PROPOSED FINISHED GRADE AT THE TOP OF THE WALL AND EXISTING GRADE AT THE BOTTOM OF THE WALL. ARRANGEMENT OF BLOCK, CAP STONE, AND CRUSHED STONE BASE AT WALL STEPS SHALL CONFORM TO MANUFACTURER'S STANDARD RECOMMENDATIONS.
- DO NOT SCOUR REINFORCING AS REQUIRED TO ACCOMMODATE GULFBLIND FOUNDATION CONCRETE. DO NOT UNITE FABRIC ENTIRELY AT GULFBLIND FOUNDATION LOCATIONS.

BUILDING CODE

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF N.J.A.C. 5:23, "UNIFORM CONSTRUCTION CODE REGULATIONS", LATEST EDITION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS CODE, WITH THE SPECIFICATION, AND THE REQUIREMENT OF ANY GOVERNMENTAL AGENCIES, INCLUDING SUPERVISION.

1.115

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING, SHORING, ETC.

- [illegible]

1. FOUNDATION
4,000 PSF

- A. ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE A.C.I. BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (318-02 ULTIMATE STRENGTH DESIGN).
- B. CONCRETE SHALL BE WEDGED, TRANSPORTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS 318, 304, AND 301, LATEST EDITIONS.
- C. PROVIDE CONCRETE WITH THE FOLLOWING REINFORCING:
 - A. ALL FOOTINGS SHALL BE PLACED DIRECTLY ON VIRGIN SOIL, CERTIFIED COMPACTED FILL, OR BED ROCK.
 - B. FOOTINGS SHALL BE DESIGNED TO SUPPORT A MINIMUM OF 4,000 PSF ON VIRGIN SOIL. SHOULD CONDITIONS VARY FROM THOSE ASSUMED, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE CONTINUATION OF WORK.
 - C. FOOTINGS SHALL BE PLACED DIRECTLY ON VIRGIN SOIL, CERTIFIED COMPACTED FILL, OR BED ROCK.
- D. CONCRETE FOR FOUNDATIONS:
 - A. ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE A.C.I. BUILDING

f'c (PSI)	COURSE		LOCATION
	AGGREGATE	NORMAL WEIGHT	
4000			U.O.N.

SEE REINFORCED CONCRETE NOTES FOR ADDITIONAL INFORMATION.

3. ALL FILL SHALL BE PLACED IN TWELVE (12) INCH LOOSE LIFTS (MAXIMUM) COMPACTED TO PROVIDE 95% OF MAXIMUM DRY WEIGHT DENSITY BELOW PROPOSED FOOTINGS AND SLABS.
4. ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 3'-6" BELOW FINAL GRADE.
5. ALL EXTERIOR WALLS SHALL BE PROVIDED AS THAT EXCAVATION, CONCRETE WORK AND BACKFILL ARE TO BE PERFORMED IN THE DRY.
6. BACKFILL AGAINST FOUNDATION WALLS OR CMU RETAINING WALLS SHALL NOT BE PERFORMED UNTIL AFTER THE FOUNDATION WALLS HAVE BEEN COMPLETED.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE BOTTOM OF FOOTING ELEVATION IS CHANGED AND OBTAIN REVISED DESIGN OF THE FOUNDATION WALLS AS REQUIRED.

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI 318.

1. ALL CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE ACI 301, 304, AND ACI 318, LATEST EDITIONS.
2. THE CONCRETE MIX SHALL CONFORM TO THE PROVISIONS FOR CONCRETE QUALITY CONTAINED IN CHAPTER 5, ACI 318. COMPRESSIVE STRENGTH, f'_c , IS MEASURED AT 28 DAYS AGE.

f_c (PSI)	MINIMUM CONCRETE POUNDS PER C.Y.	LOCATION
4000	810	ALL

3. PROVIDE CONCRETE WITH THE FOLLOWING PROPERTIES:

f_c (PSI)	COURSE AGGREGATE INCHES	MAXIMUM WATER CEMENT RATIO
4000	5	0.46

4. UNLESS OTHERWISE NOTED:
A. ALL REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.

- B. ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A185.
5. SPACING OF REINFORCEMENT IS PERMITTED ON ALL LOCATIONS SHOWN IN THE DRAWINGS TO BE VARYING, BUT THE MINIMUM SPACING SHALL BE SHOWN OR NOTED. REINFORCING STEEL SHALL BE SPICED TO PROVIDE ITS FULL TENSILE CAPACITY IN ACCORDANCE WITH A318.
6. MINIMUM BARS FOR AN ELEMENTARY RECTANGULAR IN COMPLIANCE WITH A318 SHALL BE FOUR (4) BARS. THE MINIMUM TOP AND BOTTOM BARS SHALL BE 10 # BARS. THE MINIMUM TOP-STEEL, BAR SPACING, COVER, AND THE LIKE, SHALL BE AS SHOWN IN THE DRAWINGS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP-STEEL, BAR SPACING, COVER, AND THE LIKE.
7. PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
8. LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER.
9. SIZES OF WWF. ALL SPICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN 6 INCHES. THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NO LESS THAN 8 INCHES.
10. WELDING OF REINFORCING BARS IS NOT PERMITTED UNLESS SPECIFICALLY CALLED FOR IN THE DRAWINGS.
11. ALL REINFORCING SHALL BE SECURED IN PLACE TO PREVENT DISPLACEMENT OF REINFORCING DURING CASTING OF CONCRETE. THE WIRE SHALL BE PLACED IN ACCORDANCE WITH A318.
12. REINFORCING STEEL SUPPORTED ON THE GROUND SHALL BE PLACED ON 2" X 4" SCAFFOLDING OR 2" X 4" BRACKETS.
13. EMB. SUPPORTS SHALL BE GALVANIZED METAL WITH PLASTIC TIPS.
14. REINFORCING STEEL SHALL BE PLACED TO PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER, UNLESS OTHERWISE INDICATED:

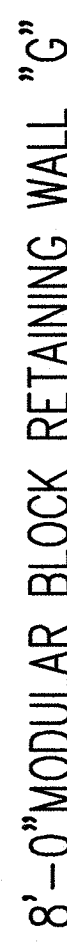
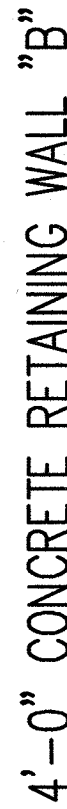
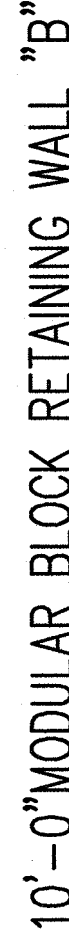
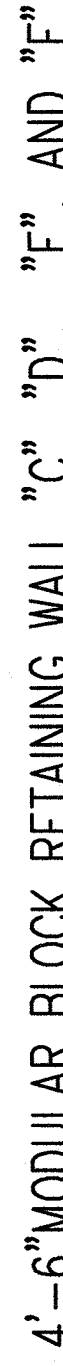
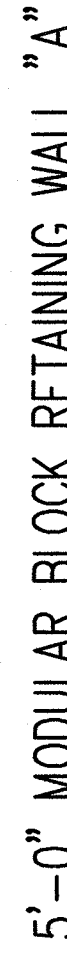
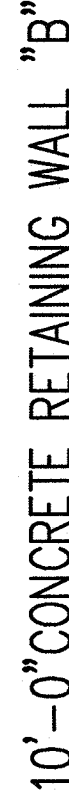
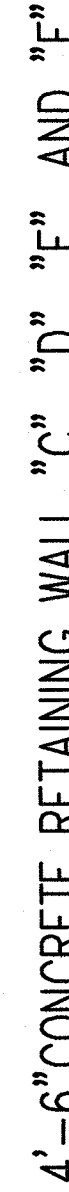
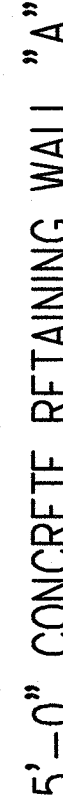
15. NON-SHRINK GROUT SHALL BE PREMIXED AND BAGGED BY MANUFACTURER. ACCEPTABLE NON-SHRINK GROUT: MASTERFLOW 713 BY MASTER BUILDERS OR ACCEPTED BY THE ENGINEER.

1. MODULAR BLOCK

1. MODULAR BLOCK WALLS SHALL BE CONSTRUCTED WITH COMPAC II UNIT AS MANUFACTURED BY KEYSTONE RETAINING WALL SYSTEMS, INC OR ACCEPTED EQUAL COORDINATE AND COLOR OF UNITS WITH OWNER.
2. INSTALLATION OF MODULAR BLOCK WALLS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND SPECIFICATIONS.

3. COORDINATE STYLE AND COLOR OF UNITS WITH OWNER.
4. WALLS SHALL STEP IN ELEVATION AT BOTH TOP AND BOTTOM AS REQUIRED TO CONFORM WITH PROPOSED FINISHED GRADE AT THE TOP OF THE WALL AND EXISTING GRADE AT THE BOTTOM OF THE WALL. ARRANGEMENT OF BLOCK, CAP STONE, AND CRUSHED STONE BASE AT WALL STEPS SHALL CONFORM TO MANUFACTURER'S STANDARD RECOMMENDATIONS.

5. CUT GEOGRID REINFORCING AS REQUIRED TO ACCOMMODATE GUIDERAIL FOUNDATION CONCRETE. DO NOT OMIT FABRIC ENTIRELY AT GUIDERAIL FOUNDATION LOCATIONS.



CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.

2	REVISED PER ZONING BOARD ENGINEERS COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	09/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36862
DATED 10/29/2021