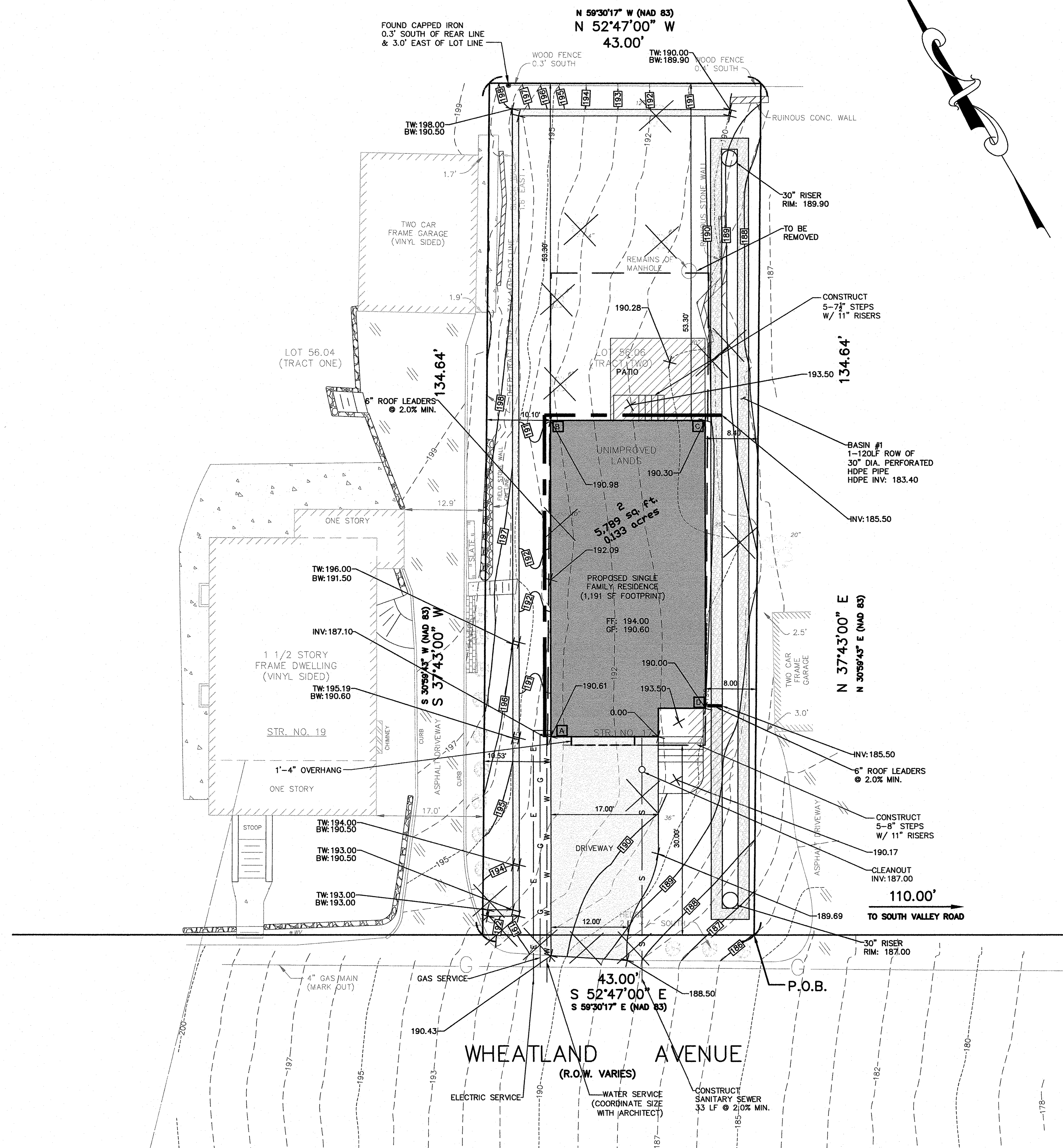




SITE DATA CHART				
APPLICANT: MIGUEL ARMUOS 17 WHEATLAND AVENUE WEST ORANGE, NEW JERSEY 07062				
PROPERTY: BLOCK 39 LOT 56.06 AREA = 0.133± ACRES				
ZONE: R-6 ONE FAMILY RESIDENTIAL				
EXISTING USE: VACANT		PROPOSED USE: SINGLE FAMILY RESIDENCE		
BULK REQUIREMENTS				
DESCRIPTION	CODE (R-6)	EXISTING	PROPOSED	COMPLIANCE
SCHEDULE OF AREA, YARD, AND BUILDING REQUIREMENTS				
MIN. LOT AREA	6,000 SF	5,789 SF	NO CHANGE	EXISTING NONCONFORMING
MIN. LOT AREA PER UNIT	6,000 SF / 1 UNIT	N/A	5,789 SF / 1 UNIT	NO
MIN. LOT WIDTH	60 FT	43 FT	NO CHANGE	EXISTING NONCONFORMING
PRINCIPAL BUILDING SETBACKS				
MIN. FRONT YARD	30 FT	N/A	30.00 FT	YES
MIN. SIDE YARDS	10 + 8 FT	N/A	10.10 + 8.00 FT	YES
MIN. REAR YARD	30 FT	N/A	53.30 FT	YES
MAX. BUILDING COVERAGE	35%	N/A	20.57%	YES
MAX. HEIGHT	2-1/2 STORIES, 35 FT	N/A	34.6 FT	YES
MAX. LOT COVERAGE	45%	N/A	37.10%	YES
STEEP SLOPES CALCULATIONS				
MIN. EFFECTIVE LOT AREA	6,000 SF	1,847 SF	1,847 SF	EXISTING NONCONFORMING
MAX. EFFECTIVE BUILDING COVERAGE	35%	N/A	64.48%	NO
MAX. EFFECTIVE LOT COVERAGE	45%	N/A	116.24%	NO

* VARIANCE REQUESTED

EXISTING GRADES	
A	190.6
B	191.0
C	190.3
D	190.0
AVG	190.5

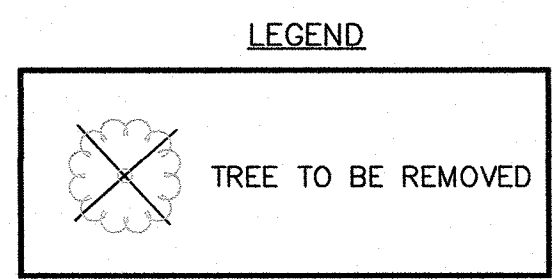
BUILDING HEIGHT CALCULATION:
 $194.0 + 31.1 - 190.5 = 34.6 \text{ FT}$

BUILDING COVERAGE CALCULATION:
BUILDING FOOTPRINT: 1,191 SF
 $\text{BUILDING COVERAGE} = 1,191 \text{ SF} / 5,789 \text{ SF} = 20.57\%$

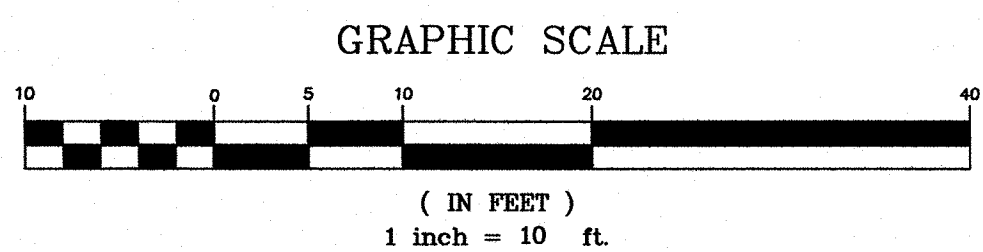
IMPERVIOUS COVERAGE CALCULATION:
BUILDING FOOTPRINT 1,191 SF
PATIO 195 SF
FRONT STAIRS AND WALK 95 SF
DRIVEWAY 500 SF
WALL 167 SF
TOTAL 2,148 SF
 $\text{IMP. COVERAGE} = 2,148 \text{ SF} / 5,789 \text{ SF} = 37.10\%$

DRAINAGE CALCULATIONS:
REQUIRED STORAGE:
NEW IMPERVIOUS AREA: 2,191 SF
 $\text{@ } 6.44" \text{ PER SF}$
 $2,191 \text{ SF} \times (6.44"/12) = 1,175 \text{ CF}$

BASIN VOLUME:
HDPE PIPE VOLUME:
 $V = A \times L = \pi \times r^2 \times L = \pi (1.25')^2 \times 120 = 589 \text{ CF}$
STONE VOIDS VOLUME:
 $V = [L \times W \times H - (\text{VOLUME OF HDPE PIPES})] (40\%)$
 $V = [123.5' \times 6' \times 3' - (589)] \times 0.40 = 654 \text{ CF}$
TOTAL VOLUME:
 $V = (654 + 589) = 1,243 \text{ CF}$

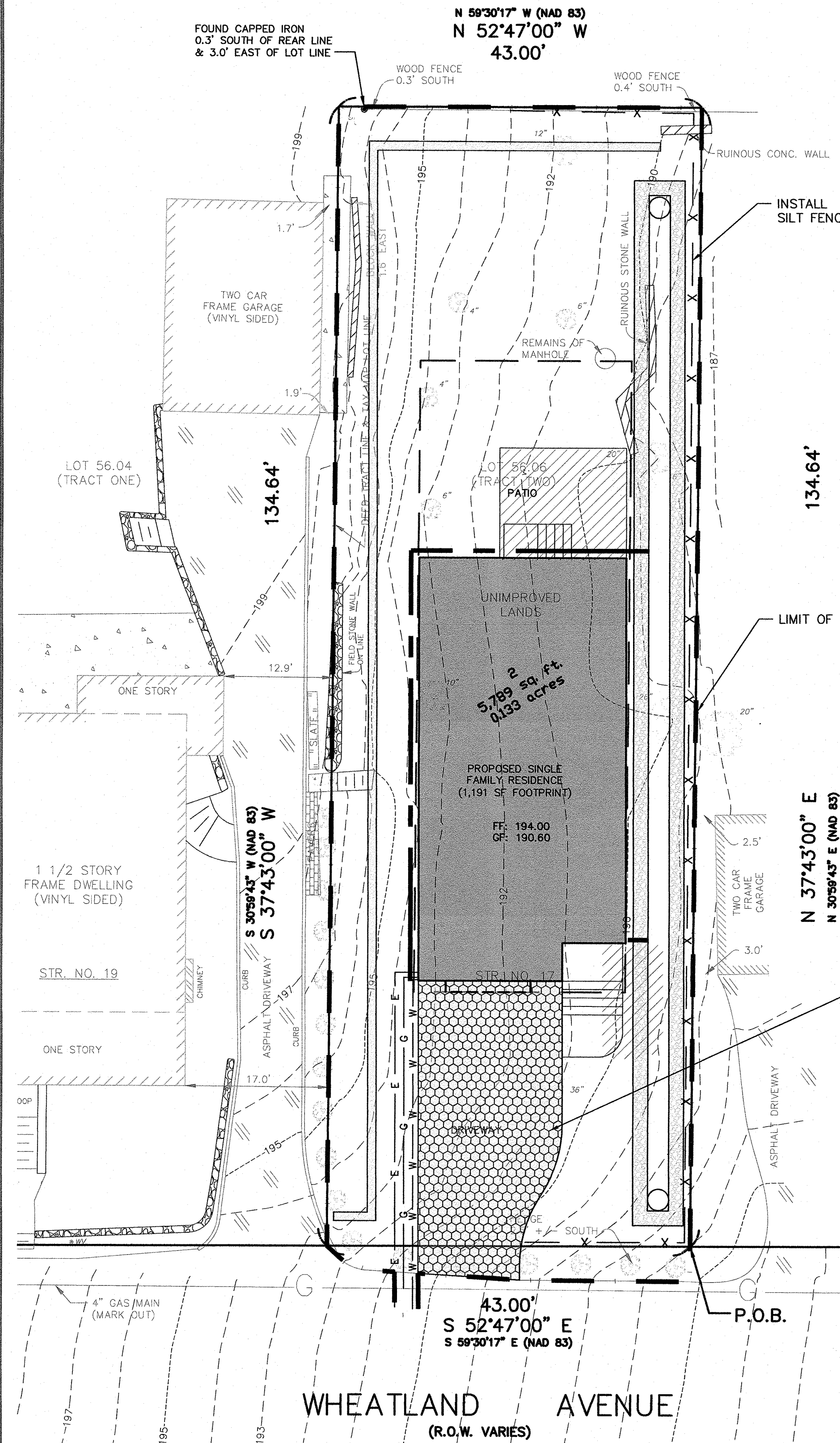


REFERENCES:
1. BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED BOUNDARY & TOPOGRAPHIC SURVEY OF 17 WHEATLAND AVENUE, LOT 56.06 IN BLOCK 39, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY SIGNED BY GEORGE PRONESTI, P.L.S. DATED 05/18/2021.
2. ARCHITECTURAL INFORMATION TAKEN FROM PLANS FOR CHARLES L. BALDANZA, R.A., DATED 08/09/2021.

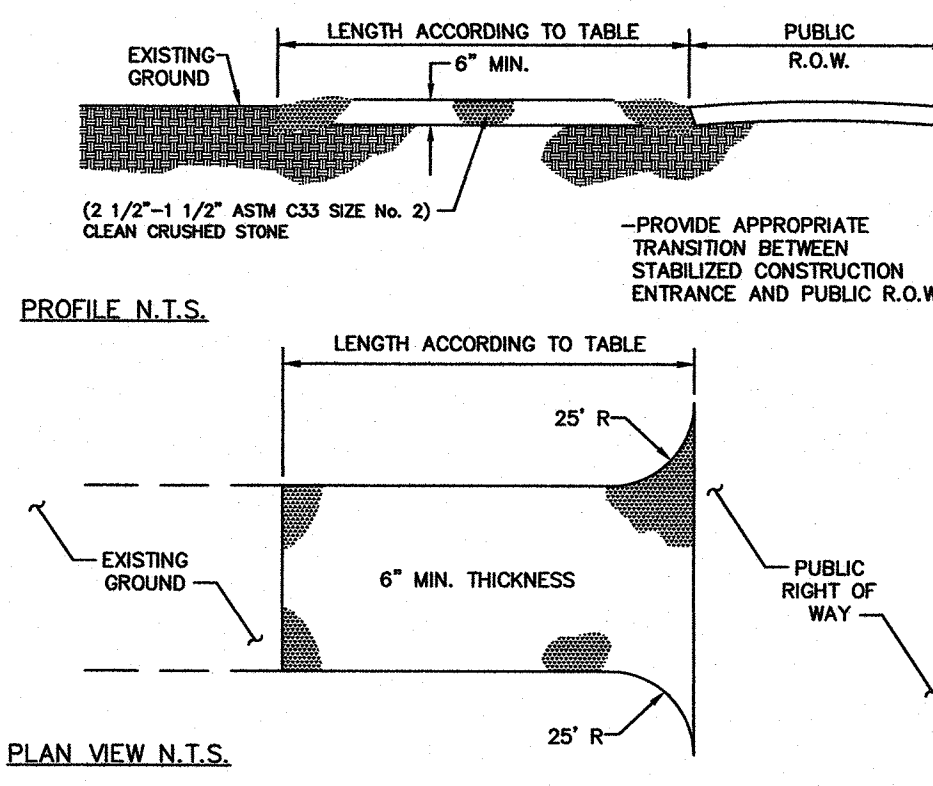
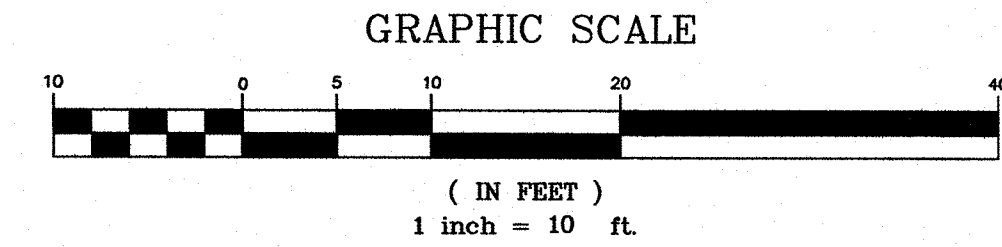


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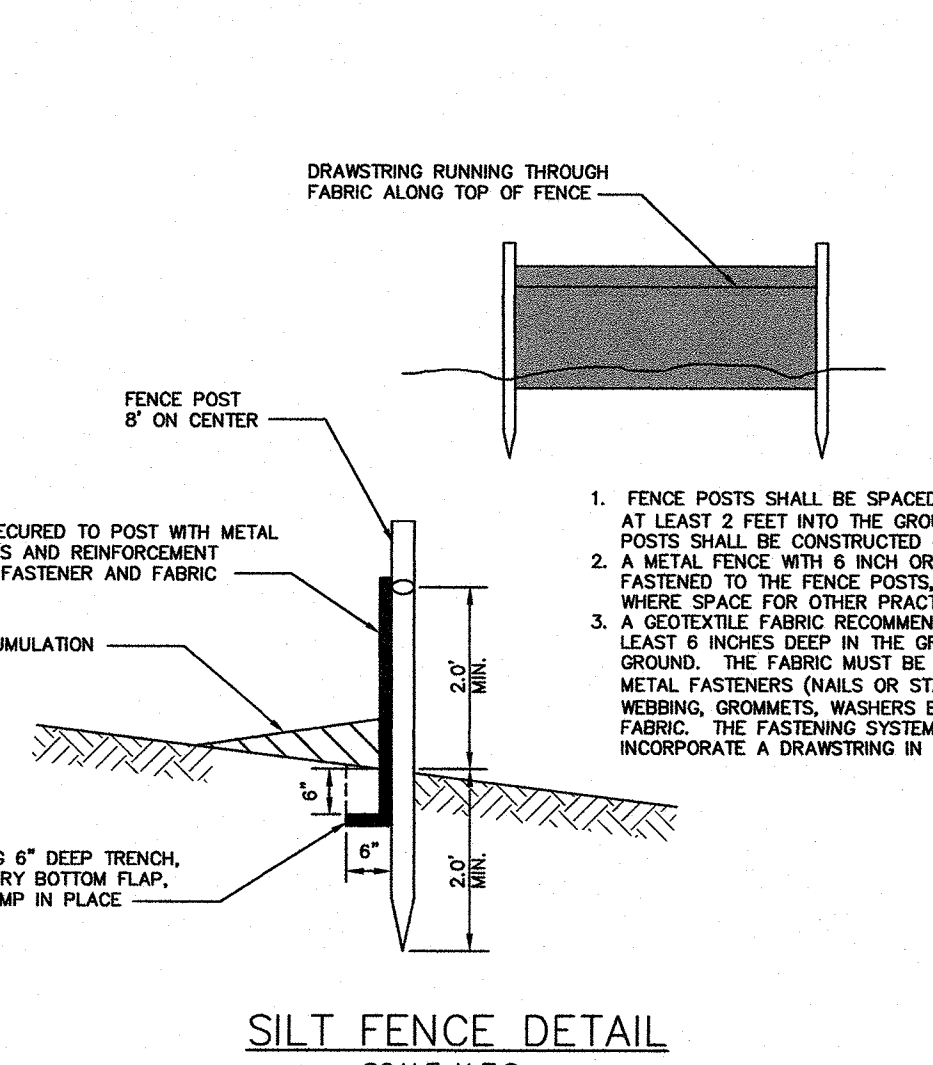
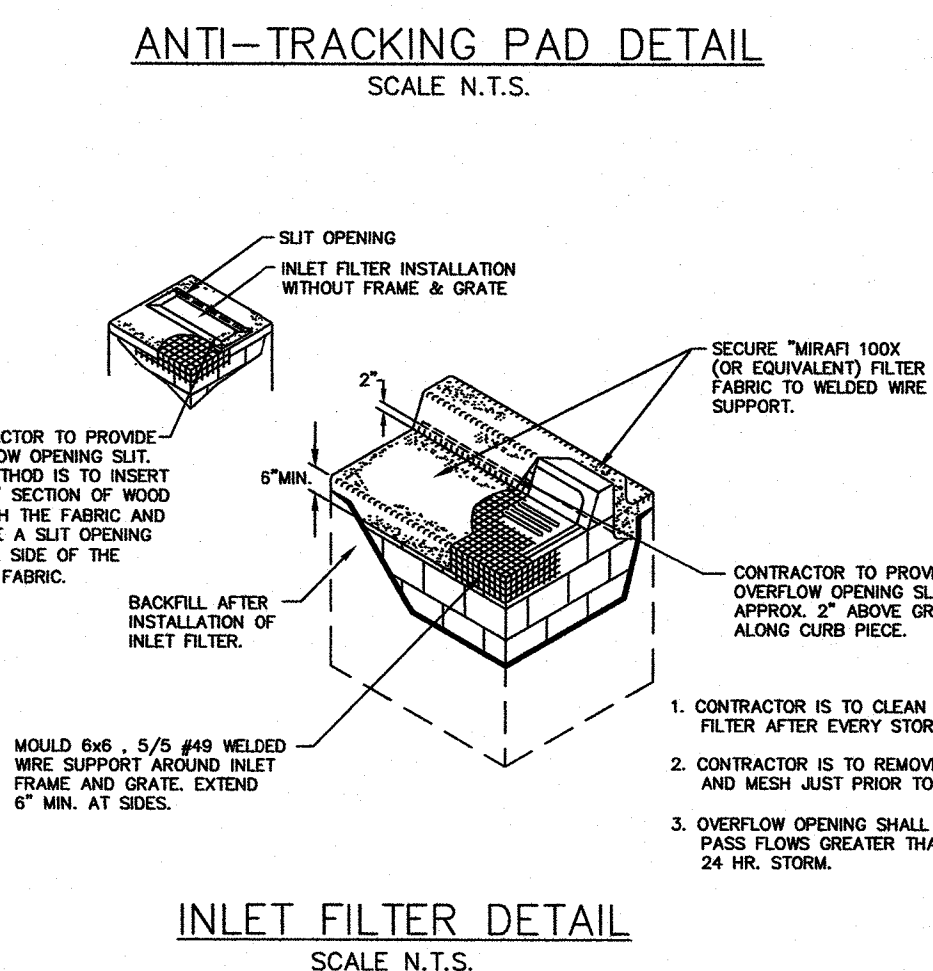
1	REVISED BUILDING SETBACK AND STAIRS	10/05/2021	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR MIGUEL ARMUOS 17 WHEATLAND AVE BLOCK 39 LOT 56.06 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
GRADING PLOT PLAN			
		Designer: JMP	
		Draftsman: JAF	
		Checked By: JMP	
		Project No.: 21-125	
		Scale: 1"=10'	
		Sheet:	
		J. MICHAEL PETRY-PE, PP, RA NJ PROFESSIONAL ENGINEER LIC. NO. 36862 DATED 03/22/2021	
		SP-1	



- REFERENCES:
- BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED BOUNDARY & TOPOGRAPHIC SURVEY OF 17 WHEATLAND AVENUE, LOT 56.06 IN BLOCK 39, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY SIGNED BY GEORGE PRONESTI, P.L.S. DATED 05/18/2021.
 - ARCHITECTURAL INFORMATION TAKEN FROM PLANS FROM CHARLES L. BALDANZA, R.A., DATED 08/09/2021.



PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COURSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT.	200 FT.
> 5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE	



- TEMPORARY STABILIZATION**
- SOILS EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, SHALL BE SEEDED & HAY MULCHED AND STABILIZED WITH TEMPORARY VEGETATIVE COVER OR OTHER APPROVED.
- STREETS, DRIVEWAYS AND PARKING AREAS NOT SCHEDULED FOR PAVING WITHIN THE ALLOTTED TIME FRAME SHALL BE STABILIZED USING PAVEMENT SUBBASE COURSE. THIS SUBBASE COURSE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
 - ALL AREAS NOT SCHEDULED FOR PAVING SHALL RECEIVE A TEMPORARY SEEDING IMMEDIATELY FOLLOWING FOLLOWING ROUGH GRADING.
 - APPLY FERTILIZER AT A RATE OF 500 LBS./ACRE OR 11 LBS./1,000 SF. OF 10-20-10 EQUIVALENT. APPLY LIMESTONE AT A RATE OF 2 TONS/ACRES.
 - WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES UNTIL UNIFORM.
 - TEMPORARY SEEDING WILL BE A MIX OF ANNUAL RYEGRASS OR PERENNIAL RYEGRASS AT A RATE OF 100 LBS./ACRE OR 1 LBS./1,000 SF.
 - UN-ROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT A RATE OF 1-1/2 TO 2 TONS/ACRE (70 TO 90 LBS./1,000 SF).
- PERMANENT STABILIZATION**
- ALL AREAS NOT SCHEDULED FOR CONSTRUCTION OR LANDSCAPING TO BE STABILIZED USING SEED MIXTURE NO. 13 CONSISTING OF HARD FESCUE AND/OR CHEWING FESCUE AT A RATE OF 175 LBS./ACRE (4 LBS./1,000 SF.), STRONG KNEEING RYEGRASS, PERENNIAL RYEGRASS & KENTUCKY BLUEGRASS (BLEND), BOTH AT A RATE OF 45 LBS./ACRE (11 LBS./1,000 SF).
 - UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO SPREAD TOPSOIL AT A RATE OF 500 LBS./ACRE OR 11 LBS./1,000 SF. OF 10-10-10 EQUIVALENT.
 - WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES UNTIL UNIFORM.
 - REMOVE ALL SURFACE DEBRIS AND STONES 2 INCHES OR LARGER.
 - UN-ROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT A RATE OF 1-1/2 TO 2 TONS/ACRE (70 TO 90 LBS./1,000 SF).
 - INSPECT SEEDBED JUST BEFORE SEEDING IF TRAFFIC HAS LEFT THE SOIL COMPACTED. THE AREA MUST BE RE-TILLED AND FIRMED AS ABOVE.
 - A DEPTH OF 5 INCHES OF TOPSOIL IS REQUIRED FOR ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER.
- DUST CONTROL NOTES**
- THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST
- MULCHES - SEE STANDARD FOR STABILIZATION WITH MULCHES ONLY (PG. 5-1).
 - VEGETATIVE COVER - SEE STANDARD FOR TEMPORARY VEGETATIVE COVER (PG. 7-1). PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION (PG. 4-1) AND PERMANENT STABILIZATION WITH SOD (PG. 6-1).
 - SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.
- SOIL EROSION LEGEND**
- X - FILTER FABRIC FENCING (SEE DETAIL)
- - - LIMIT OF DISTURBANCE
[Symbol] INLET FILTER
[Symbol] ANTI-TRACKING PAD (SEE DETAIL)
- TOTAL AREA OF DISTURBANCE:**
5,956 SQ.FT. OR 0.137 ± AC.

1

REVISED BUILDING SETBACK AND STAIRS

10/05/2021

JMP

REVISION

DESCRIPTION

DATE

BY

PREPARED FOR

MIGUEL ARMIJOS

17 WHEATLAND AVE

BLOCK 39 LOT 56.06

TOWNSHIP OF WEST ORANGE

ESSEX COUNTY, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL

PETRY

ENGINEERING, LLC

DIVISION OF CONSUMER AFFAIRS LICENSE NO. 00000000000000000000

180 PASSAIC AVENUE • FARMVILLE • NEW JERSEY • 07004

TEL: 973.707.7004 • FAX: 973.707.7074

48

J. MICHAEL PETRY-PE, PP, RA

NEW JERSEY PROFESSIONAL ENGINEER LIC. NO. 36966

DATED 09/22/2021

Designer: JMP

Draftsman: JAF

Checked By: JMP

Project No.: 21-125

Scale: 1"=10'

Sheet: SP-2

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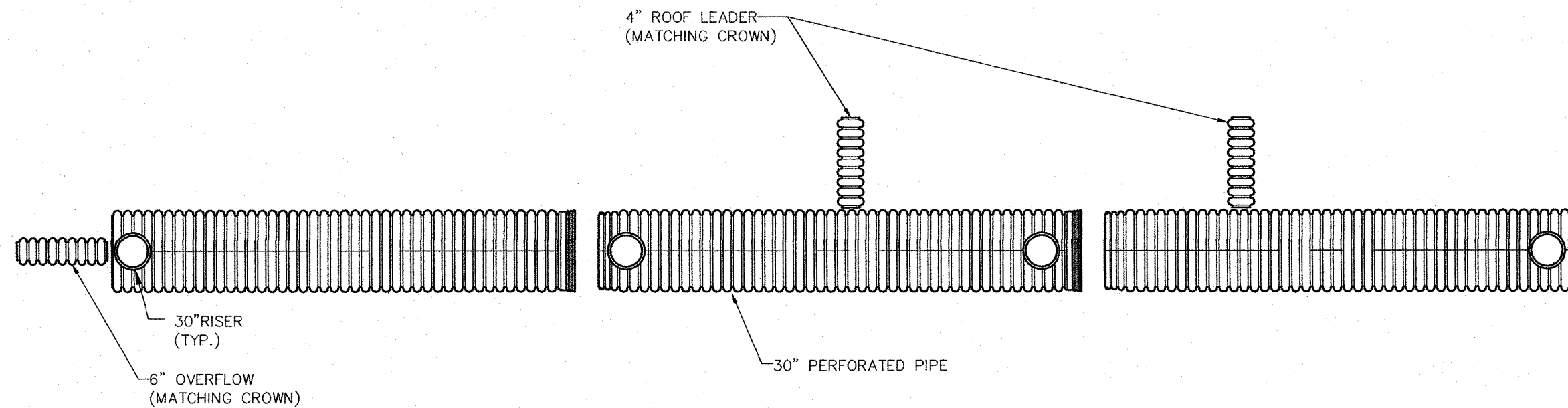
- 1.THESE PLANS REPRESENT THE OVERALL SITE WORK IMPROVEMENTS REQUIRED FOR THE PROJECT CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST, AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITE WORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS, AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.
- 2.THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION IN ACCORDANCE WITH EXISTING LOCAL, COUNTY OR STATE REGULATIONS, OR ANY OTHER AGENCIES HAVING JURISDICTION IN THESE MATTERS.
- 3.THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF THE UTILITIES WITH THE UTILITY DEPARTMENTS PRIOR TO CONSTRUCTION.
- 4.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 LIMITS.
- 5.THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS OF SURFACE EVIDENCE AND CERTAIN INFORMATION CONTAINED IN THE PUBLIC RECORD AND RECORD DATA PROVIDED BY THE OWNER. THIS PLAN IN NO WAY REPRESENTS A GUARANTEE, EXPRESS OR IMPLIED, TO THE ACCURACY OF THESE PLOTTED LOCATIONS. ADDITIONALLY, THESE PLANS MAKE NO GUARANTEE THAT UTILITIES AND OTHER SUBSURFACE STRUCTURES ARE THE ONLY SUBSURFACE STRUCTURES.
- 6.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 ARRANGE FOR PROPER BRACING OF ALL EXISTING UTILITIES, UTILITY POLES, AND OTHER STRUCTURES WITHIN THE VICINITY OF THE WORK WHICH MAY BE AFFECTED BY HIS OPERATIONS. ALL COST ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE CONTRACT WORK.
- 7.THE COORDINATION OF THE LOCATION OR RELOCATION, WHERE REQUIRED, OF TELEPHONE, ELECTRIC, GAS, WATER, AND ETC. IS THE RESPONSIBILITY OF THE CONTRACTOR, AND THE SAME SHALL BE COORDINATED TO ENSURE COMPLETION WITHIN THE TIME PERMITTED.
- 8.THE CONTRACTOR SHOULD NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON AND OR 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 MATERIAL, GRADING AND RESTORING THE DISPOSAL SITES, AND OBTAINING ANY PERMITS SHALL BE PERFORMED AT THE SOLE COST OF THE CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING IN ADVANCE OF PIPEWORK TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, AND DEPTH OF EXISTING UTILITY NOTED ON THE DRAWINGS PRIOR TO CONSTRUCTION. EXCEPT FOR THE EXCAVATION OF TEST PITS AS NOTED ON THE DRAWINGS OR WHEN DIRECTED BY THE ENGINEER, NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK BUT SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE CONTRACT WORK.
11. 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 U.S. DEPARTMENT OF TRANSPORTATION, AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE (TOWNSHIP) POLICE DEPARTMENT. THE CONTRACTOR SHALL FURNISH FLAGMEN AS MAY BE REQUIRED TO MAINTAIN TRAFFIC. THE CONTRACTOR SHALL CONTACT THE POLICE DEPARTMENT PRIOR TO STARTING ANY WORK AND NOTIFY THEM OF HIS PROPOSED OPERATIONS.
12. 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.
13. 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.
14. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS, AND WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER IS MORE STRINGENT.)
15. 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, DISTURBED, OR REMOVED IN AREAS OTHER THAN WHERE THE PIPELINE CROSSES EXISTING CURBING, AS SHOWN ON THE DRAWINGS, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE DRAWINGS.
16. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE OF NJ WORKERS HEALTH AND SAFETY ACT (N.J.A.C. 12:110 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.
17. THE CONTRACTOR SHALL CONTRACT WITH THE (TOWNSHIP OF WEST ORANGE) TO PROVIDE UNIFORMED POLICE FLAGMEN AS NECESSARY FOR WORK CONDUCTED WITHIN ROADWAYS.
18. SELECT FILL SHALL BE EITHER CLASS I OR II SOIL.

DEMO NOTES:

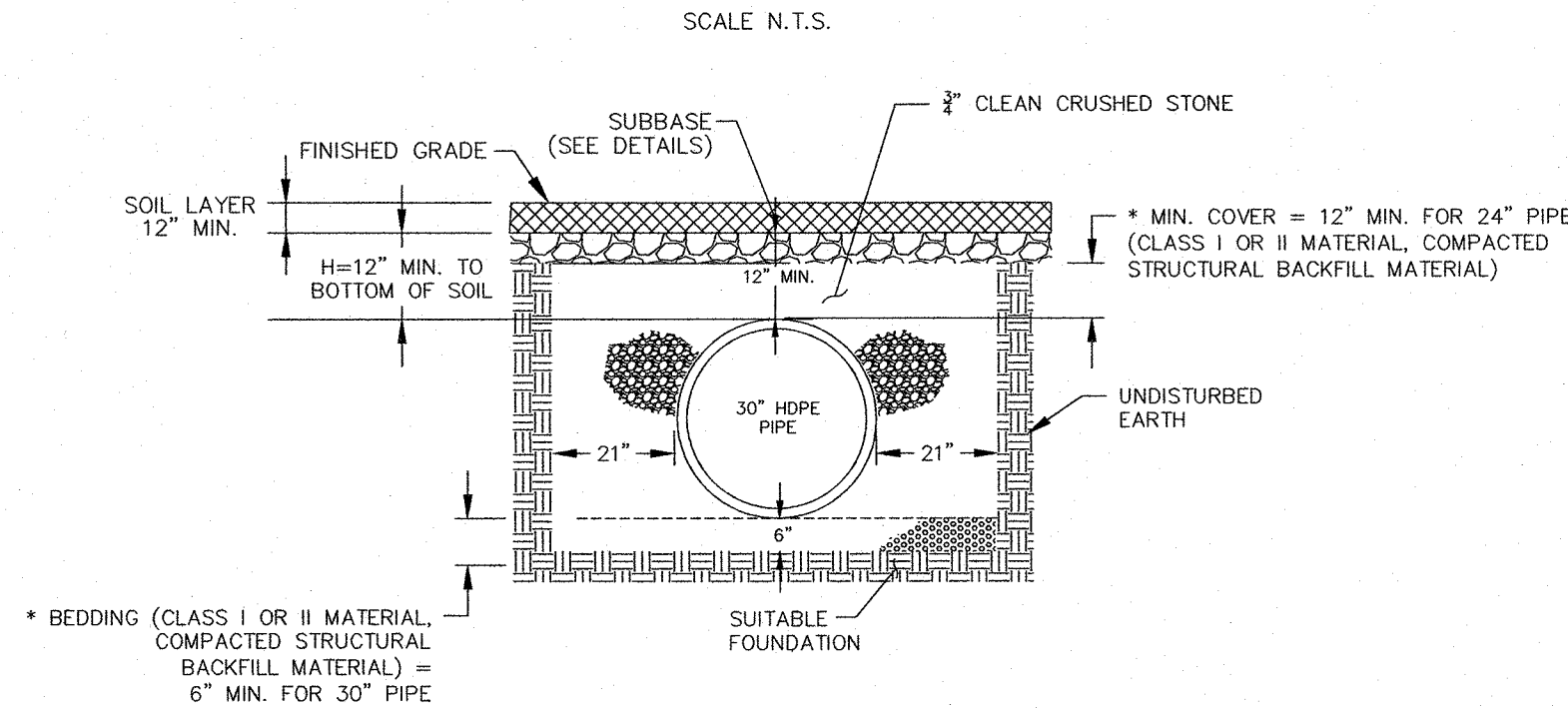
- 1.DISCONNECTION OF EXISTING UTILITY SERVICES SHALL BE COORDINATED WITH THE OWNER AND IN ACCORDANCE WITH THE REGULATIONS OF THE UTILITY AUTHORITY CONCERNED. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH WRITTEN CONFIRMATION FROM UTILITY COMPANIES THAT ALL SERVICE TO THE SITE HAS BEEN TERMINATED PRIOR 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.FOLLOWING THE DEMOLITION AND REMOVAL OF ALL IMPROVEMENTS SO DESIGNATED, THE DISTURBED AREA SHALL BE GRADED, AS DIRECTED BY THE OWNER'S ENGINEER, SO THAT THE RESULTING LANDFORM SHALL NOT ALLOW FOR PONDING OR THE FORMATION OF GULLIES RESULTING FROM STORMWATER RUN-OFF.

UTILITY NOTES:

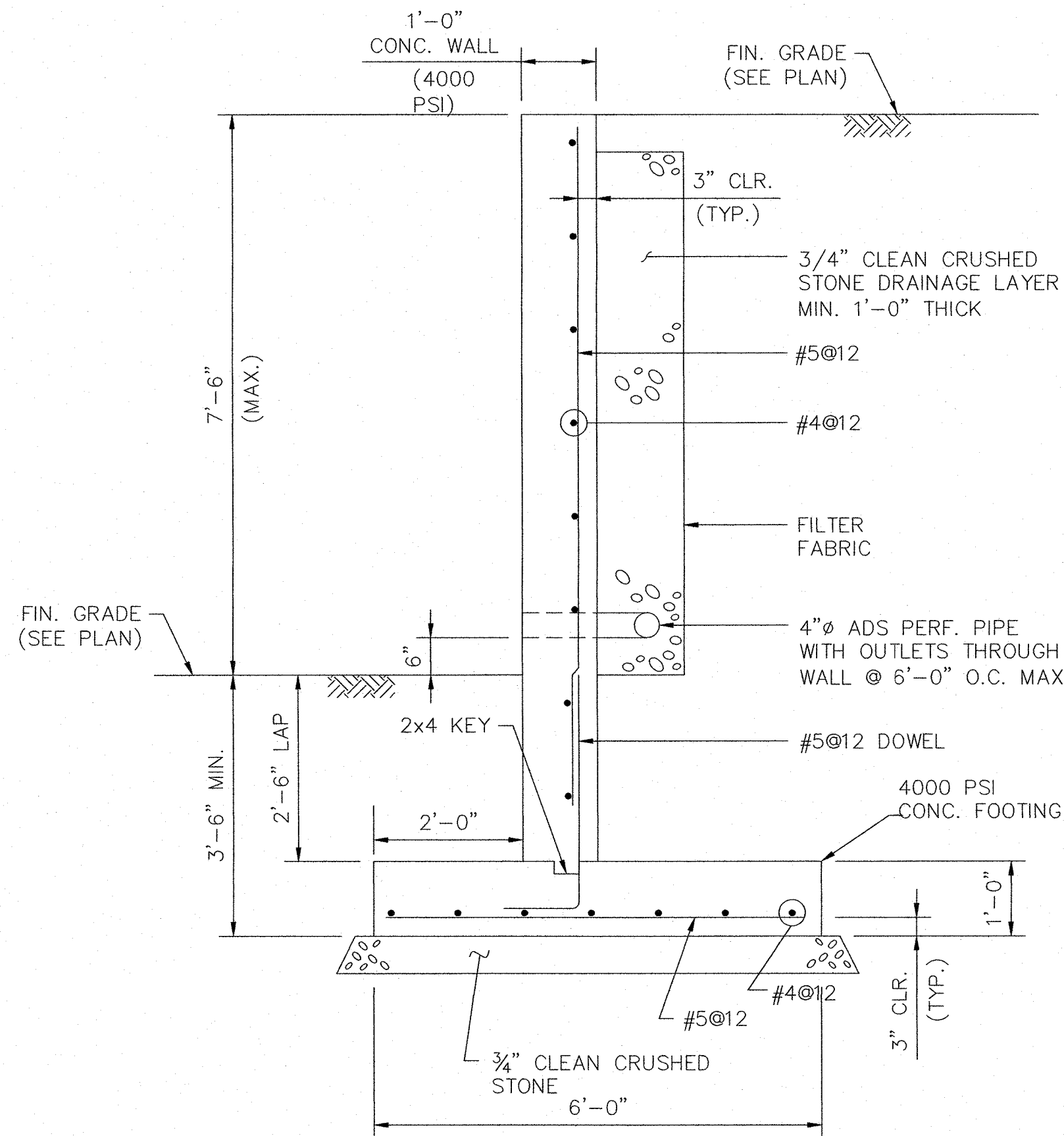
- 1.EXCESS EXCAVATED MATERIAL WILL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR WILL MAKE ARRANGEMENTS TO DISPOSE OF THE MATERIAL AT A SUITABLE LOCATION. DISPOSAL OF ALL MATERIAL, GRADING AND RESTORING THE DISPOSAL SITES, AND OBTAINING ANY PERMIT WILL BE PERFORMED AT THE SOLE COST OF THE CONTRACTOR.
- 2.PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN WATER LINES AND UTILITIES OR OBSTRUCTIONS, UNLESS OTHERWISE SHOWN.
- 3.NOTIFY THE ENGINEER, WATER, AND FIRE DEPARTMENTS 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING WATER MAINS.
- 4.THE APPROXIMATE LOCATION OF WATER SERVICE CONNECTIONS IS SHOWN IN THE DRAWINGS; THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY OWNER.
- 5.THE CONTRACTOR SHALL REFER TO ARCHITECTURAL AND/OR MEP DRAWINGS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES, INCLUDING BUT NOT LIMITED TO DOMESTIC WATER SERVICE, FIRE WATER SERVICE, GAS, SANITARY, ELECTRIC, AND ETC.
- 6.THE MINIMUM EARTH COVER OVER ALL NEW WATER MAINS SHALL BE 4 FEET UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 7.THE MINIMUM EARTH COVER OVER ALL OTHER UTILITIES IS TO BE 2' FEET UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 8.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.
- 9.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 ARRANGE FOR PROPER BRACING OF ALL EXISTING UTILITIES, UTILITY POLES, AND OTHER STRUCTURES WITHIN THE VICINITY OF THE WORK WHICH MAY BE AFFECTED BY THEIR OPERATIONS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE CONTRACT WORK.
- 10.ALL UTILITIES TO BE ABANDONED SHALL BE ABANDONED IN THE STREET ACCORDING TO ALL APPLICABLE CODES.



TYPICAL PLAN VIEW OF SUBSURFACE DETENTION BASIN

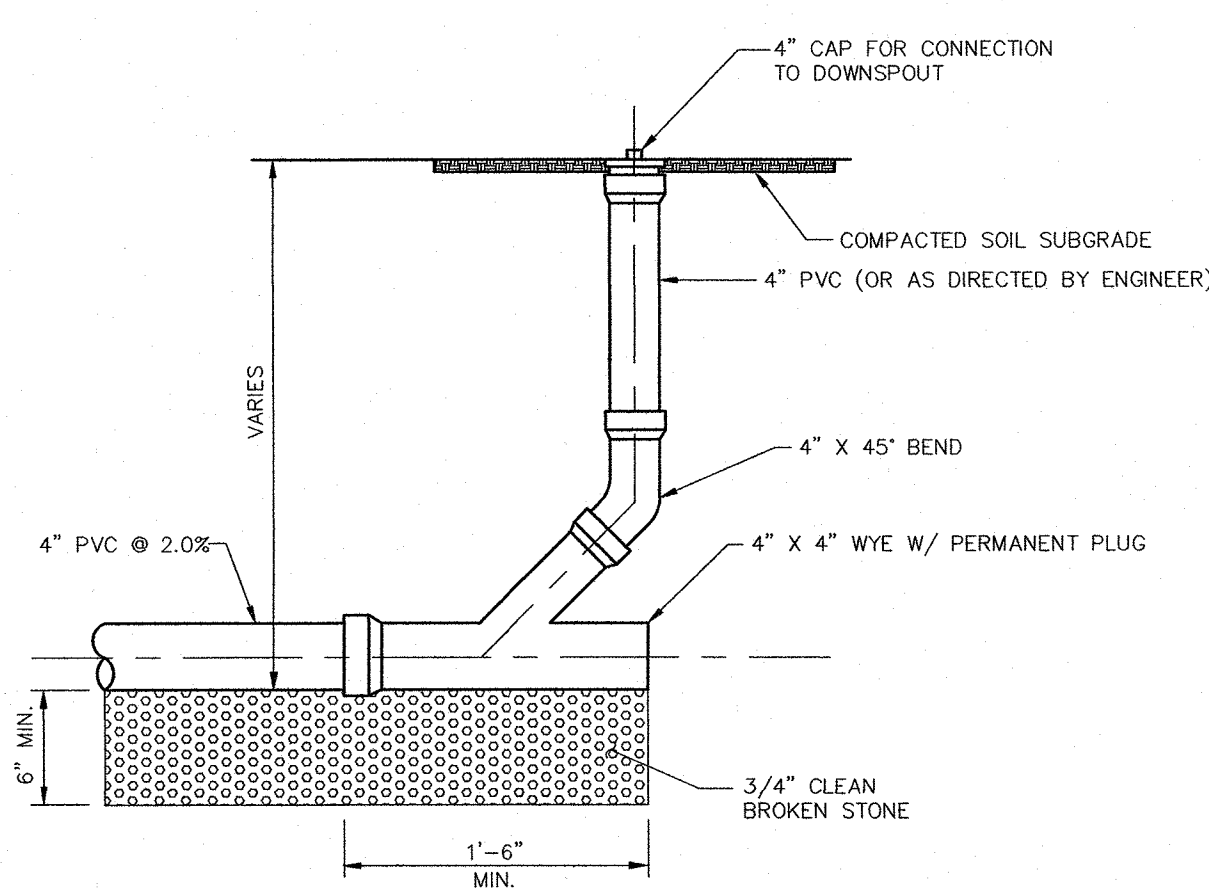


TYPICAL CROSS SECTION OF STORMWATER BASIN



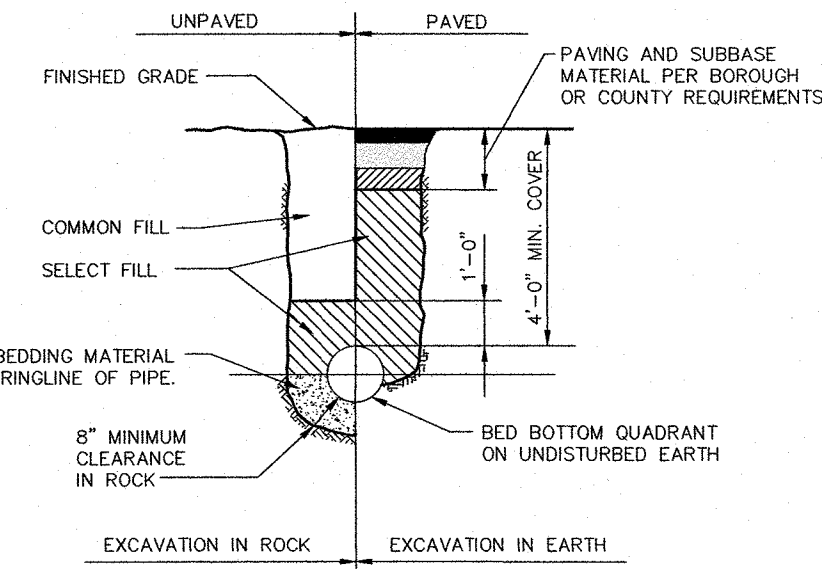
CONCRETE RETAINING WALL

SCALE - N.T.S.



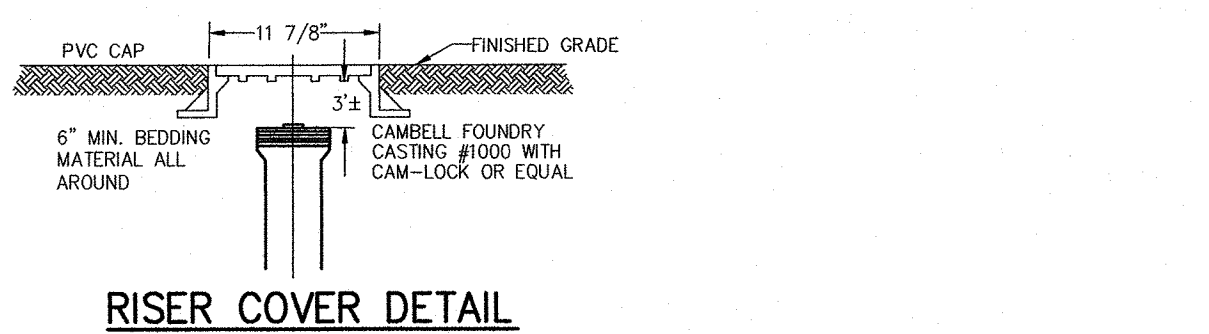
CLEAN-OUT DETAIL

SCALE N.T.S.

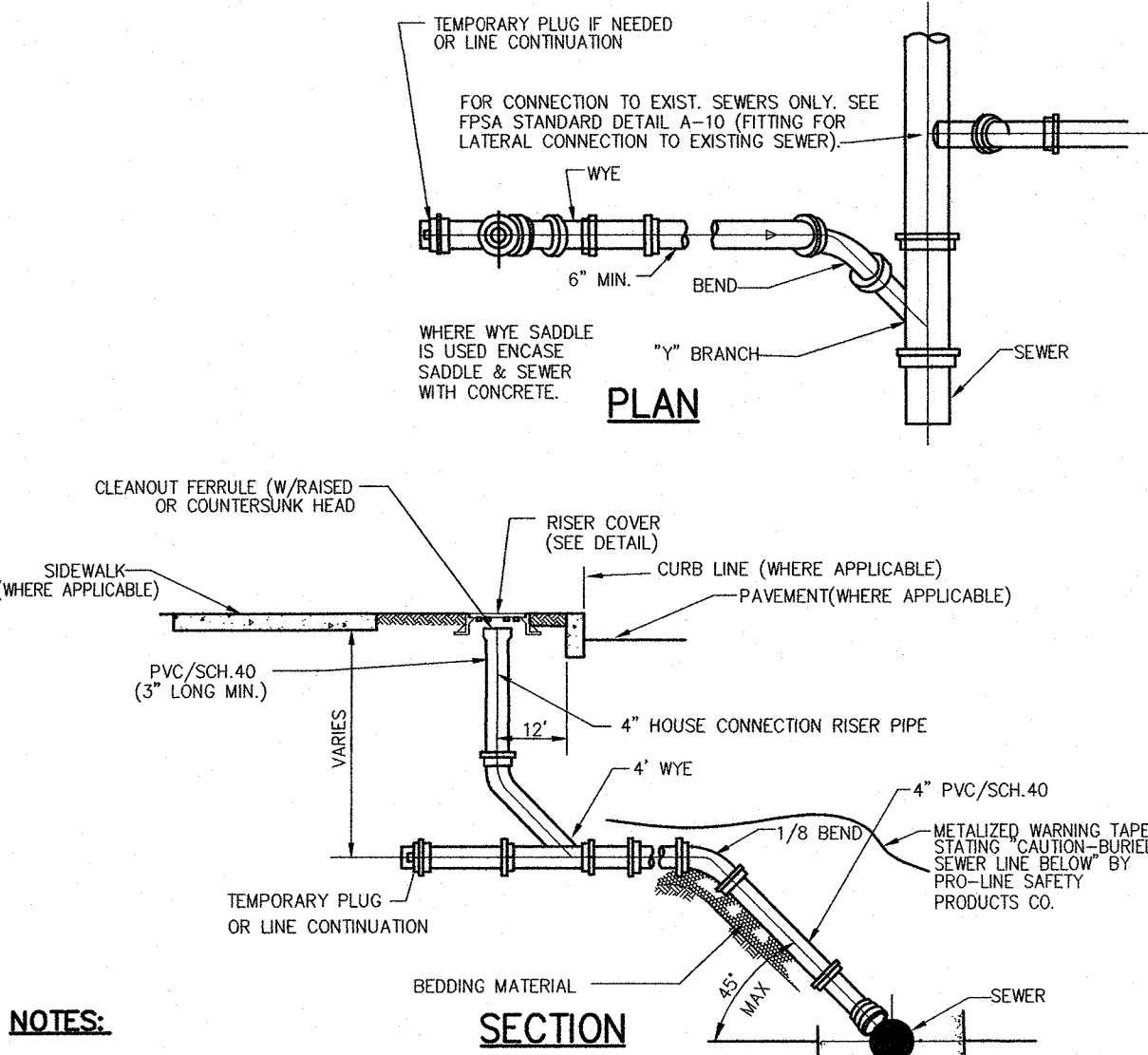


TYPICAL TRENCH DETAIL FOR UTILITIES

SCALE - N.T.S.



RISER COVER DETAIL

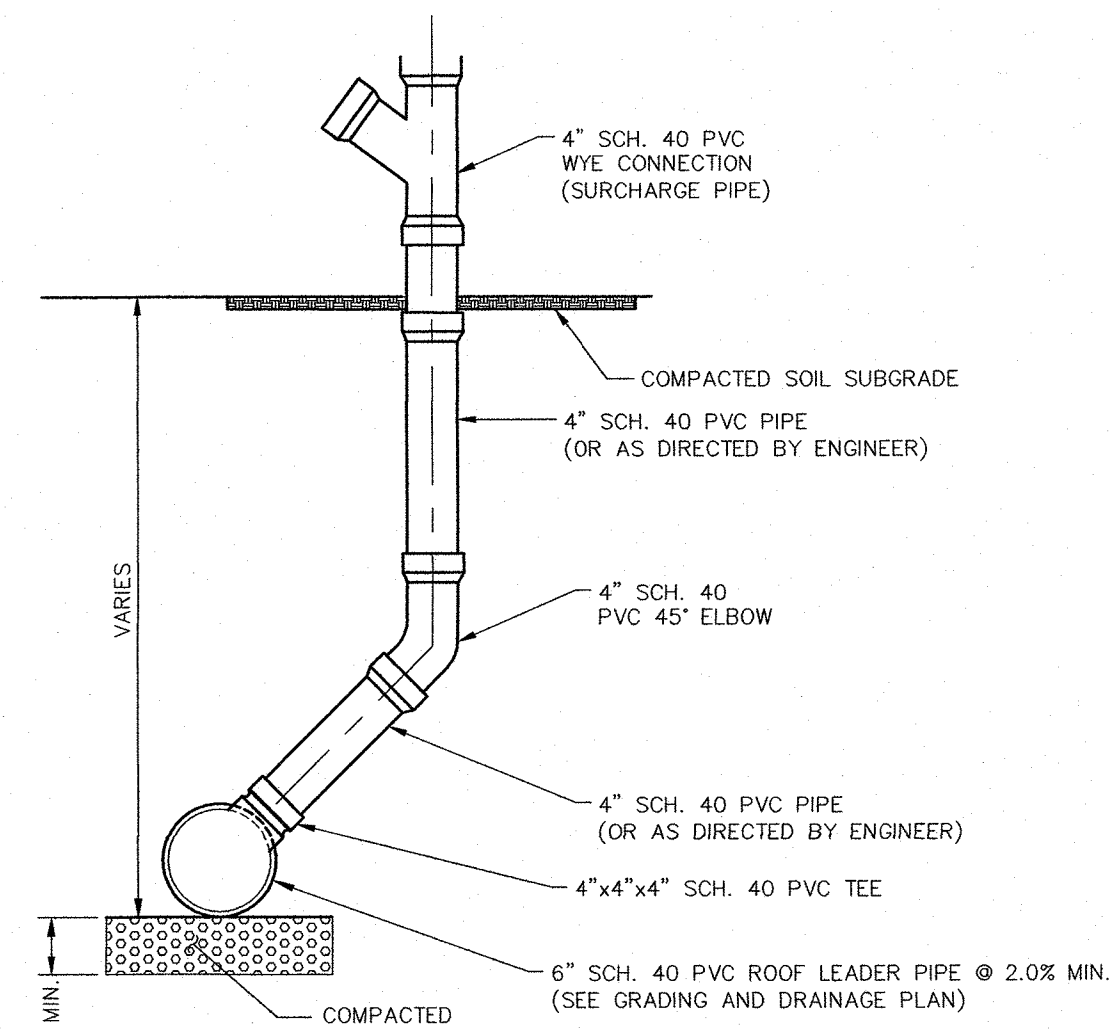


NOTES:

1. CLEANOUT TO BE LOCATED IN GRASSY AREA BETWEEN SIDEWALK AND CURB. CLEANOUTS WILL NOT BE PERMITTED IN DRIVEWAYS OR SIDEWALKS.
2. LATERAL TO BE SAME SIZE FOR ENTIRE LENGTH FROM BUILDING TO SEWER. 6" PVC SCH. 40.
3. IN EASEMENT AREAS, RISER PIPE SHALL BE LOCATED AS CLOSE TO EASEMENT LINE AS POSSIBLE.

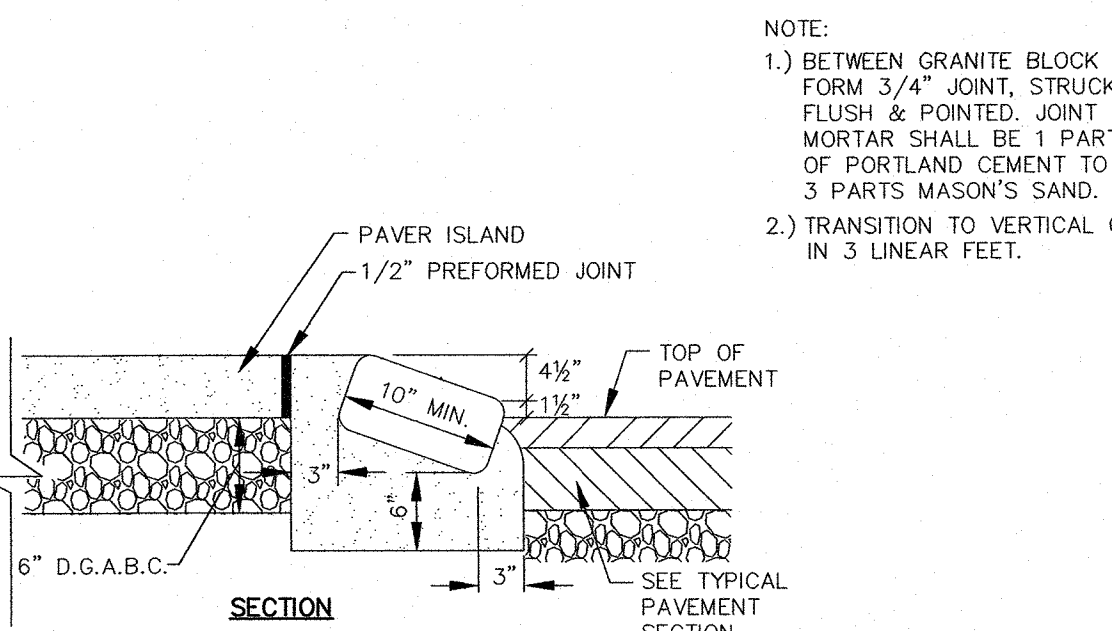
SANITARY SEWER DETAIL

SCALE - N.T.S.



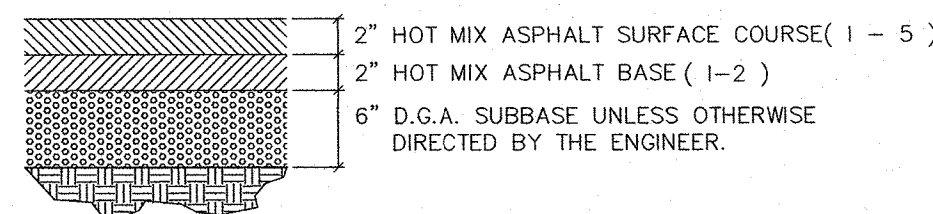
ROOF LEADER DRAIN

SCALE N.T.S.



MOUNTABLE CURB DETAIL

SCALE - N.T.S.



DRIVEWAY PAVEMENT DETAIL

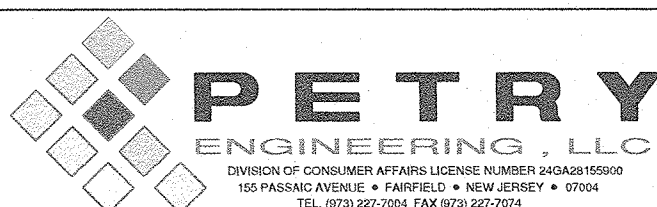
SCALE - N.T.S.

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REVISION	DESCRIPTION	DATE	BY
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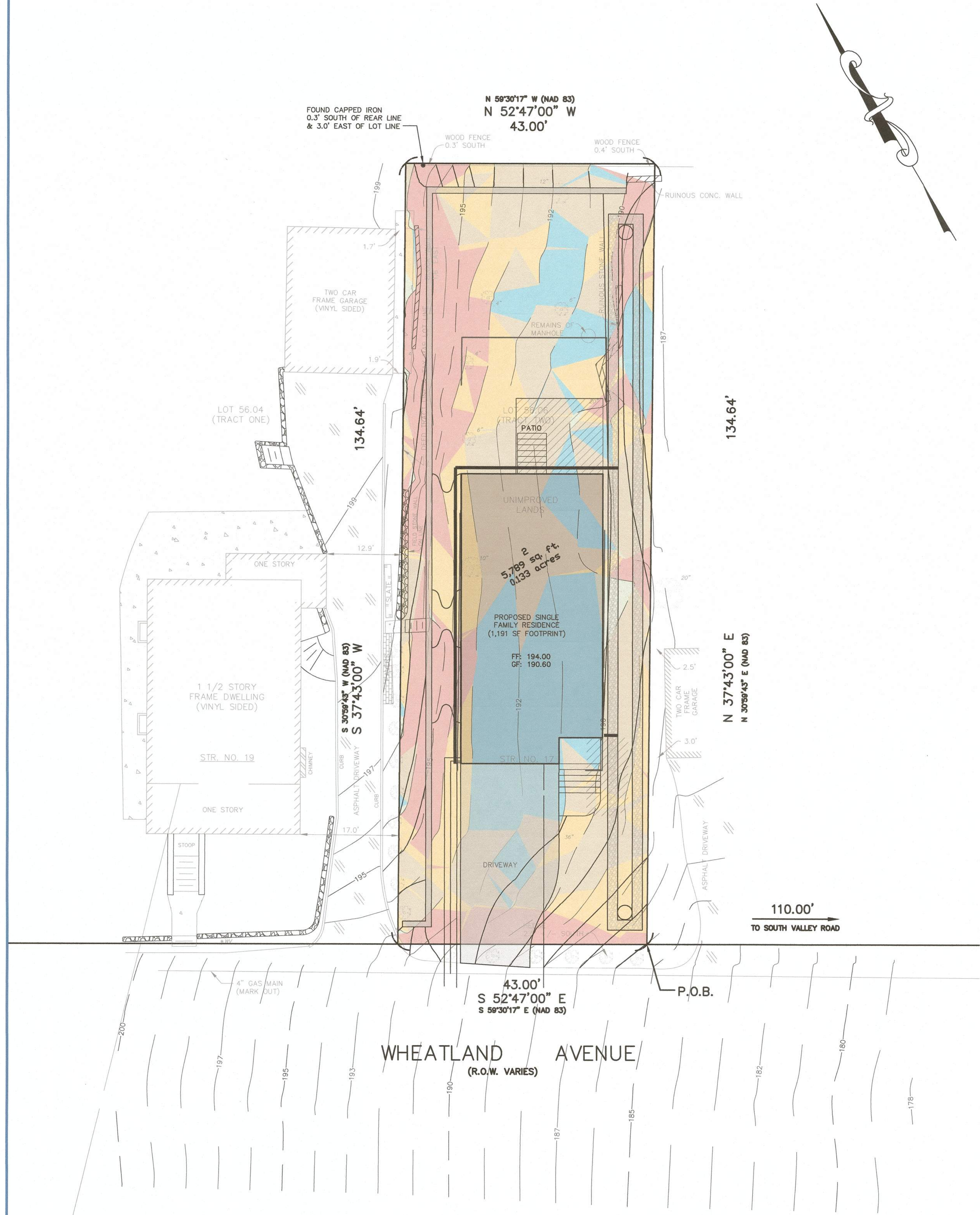
PREPARED FOR
MIGUEL ARMIJOS
17 WHEATLAND AVE
BLOCK 39 LOT 56.06
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

GENERAL NOTES AND CONSTRUCTION DETAILS



J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. No. 36662 DATED 09/22/2021

Designer: JMP
Draftsman: JAF
Checked By: JMP
Project No: 21-125
Scale: N.T.S.
Sheet:
SP-3

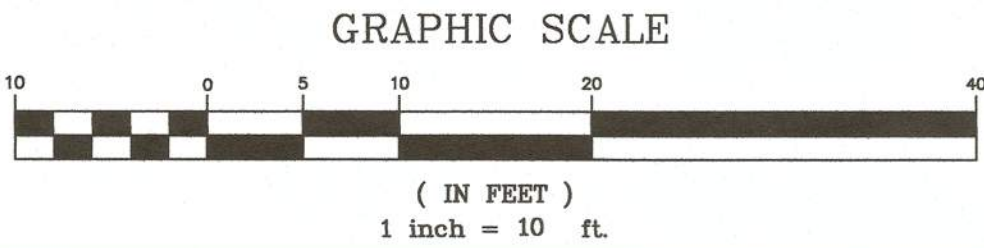


STEEP SLOPES ANALYSIS OF EXISTING CONDITIONS							
RANGE	COLOR	MIN. SLOPE	MAX. SLOPE	AREA	PERCENT OF AREA	ADJUSTMENT FACTOR	EFFECTIVE LOT AREA
1		0.00%	10.00%	80.00	1.38%	1.00	80.00
2		10.00%	14.99%	1,304.00	22.53%	0.60	782.40
3		15.00%	19.99%	1,890.00	32.65%	0.40	756.00
4		20.00%	24.99%	1,145.00	19.78%	0.20	229.00
5		25.00%		1,370.00	23.67%	0.00	0.00
				5,789.00			1,847.40

STEEP SLOPES DISTURBANCE									
RANGE	COLOR	MIN. SLOPE	MAX. SLOPE	AREA		AREA DISTURBED		AREA DISTURBED ALLOWABLE	
		% SLOPE	% SLOPE	SF	%	SF	%	SF	%
1		0.00%	10.00%	80.00	1.38%	80.00	100.00%	80.00	100%
2		10.00%	14.99%	1,304.00	22.53%	1,304.00	100.00%	782.40	60%
3		15.00%	19.99%	1,890.00	32.65%	1,890.00	100.00%	756.00	40%
4		20.00%	24.99%	1,145.00	19.78%	1,145.00	100.00%	229.00	20%
5		25.00%		1,370.00	23.67%	1,370.00	100.00%	0.00	0%
				5,789.00		5,789.00			

- REFERENCES:
- BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED BOUNDARY & TOPOGRAPHIC SURVEY OF 17 WHEATLAND AVENUE, LOT 56.06 IN BLOCK 39, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY SIGNED BY GEORGE FRONESTI, P.L.S. DATED 05/18/2021.
 - ARCHITECTURAL INFORMATION TAKEN FROM PLANS FROM CHARLES L. BALDANZA, R.A., DATED 08/09/2021.

REVISION	DESCRIPTION	DATE	BY
PREPARED FOR MIGUEL ARMIJOS 17 WHEATLAND AVE BLOCK 39 LOT 56.06 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
STEEP SLOPES MAP			
			Designer: JMP
			Draftsman: JAF
			Checked By: JMP
			Project No.: 21-125
			Scale: 1"=10'
			Sheet:
 J. MICHAEL PETRY-PE, PP, RA NJ PROFESSIONAL ENGINEER LIC. No. 36962			SP-4
DATED 09/22/2021			



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