

1. THE PROJECT TRACT IS KNOWN AS BLOCK 1701, LOT 3.01 LOCATED IN THE TOWNSHIP OF PLAINSBORO, MIDDLESEX COUNTY, NEW JERSEY. THE PROJECT TRACT CONTAINS APPROXIMATELY 49.42 +/- ACRES AND CURRENTLY CONTAINS THE HOSPITAL WITH ASSOCIATED PARKING LOTS.
2. TOPOGRAPHIC INFORMATION SHOWN FROM MAPS ENTITLED "TOPOGRAPHIC SURVEY PENN MEDICINE PRINCETON MEDICAL CENTER AT PLAINSBORO LOTS 3.01 & 4.04, BLOCK 1701 SITUATED IN THE TOWNSHIP OF PLAINSBORO, MIDDLESEX COUNTY, NEW JERSEY," PREPARED BY FRENCH & PARRELLO ASSOCIATES, DATED 08/04/2022, REVISED TO 04/29/2024, THE VERTICAL DATUM IS NAVD 88.
3. BOUNDARY INFORMATION SHOWN TAKEN FROM MAPS ENTITLED "BOUNDARY SURVEY PENN MEDICINE PRINCETON MEDICAL CENTER AT PLAINSBORO LOT 3.01, BLOCK 1701 SITUATED IN THE TOWNSHIP OF PLAINSBORO, MIDDLESEX COUNTY, NEW JERSEY," PREPARED BY FRENCH & PARRELLO ASSOCIATES, DATED 08/04/2022.
4. THIS PROPERTY IS LOCATED IN THE HMOC, HEALTH/MEDICAL OFFICE COMPLEX ZONE, AS PER THE "AMENDED REDEVELOPMENT PLAN FOR THE PRINCETON HEALTHCARE SYSTEM AT PLAINSBORO SITE" PREPARED BY PHILIPS PREISS GRYGIEL LLC, ADOPTED MARCH 13, 2013. ALSO, THE PROPERTY HAS BEEN DESIGNATED FOR REDEVELOPMENT BY THE TOWNSHIP OF PLAINSBORO AS PER THE JANUARY 23, 2008 REPORT PREPARED BY PHILIPS PREISS SHAPIRO ASSOCIATES, INC. PLANNING AND REAL ESTATE CONSULTANTS.
5. THE APPLICANT IS PROPOSING TO CONSTRUCT A PROPOSED CANCER CENTER AND IMAGING CENTER.

## ZONING DATA TABLE - CANCER CENTER

BULK STANDARDS BASED ON REDEVELOPMENT PLAN	REQUIREMENTS HOSPITAL/MEDICAL OFFICE COMPLEX	EXISTING HOSPITAL/MEDICAL OFFICE COMPLEX	PROPOSED CANCER CENTER
MINIMUM LOT AREA	40 ACRES	49.42 ACRES	NO CHANGE
MINIMUM LOT FRONTRAGE	700 FEET	1,438.13 FEET	NO CHANGE
MINIMUM BUILDING SETBACKS FROM PERIMETER LOT LINES	75 FEET	116.83 FEET	166.17 FEET
MINIMUM SETBACK OF BUILDING TO DRIVEWAYS AND PARKING LOTS	5 FEET	5 FEET	9.9 FEET
MINIMUM SETBACK OF PARKING AREAS FROM PERIMETER LOT LINES: -ROUTE 1, PLAINSBORO ROAD AND PUNA BOULEVARD	50 FEET 25 FEET	53.22 FEET* N/A	53.22 FEET* N/A
MINIMUM SETBACKS BETWEEN BUILDINGS AND PARKING GARAGE	10 FEET	N/A	N/A
MAXIMUM BUILDING HEIGHT (FEET/STORIES)	175 FEET/10 STORIES	121 FEET/7 STORIES	88.46 FEET/4 STORIES MECHANICAL LEVEL
MAXIMUM FLOOR AREA RATIO (FAR)	0.60	0.39 (TOTAL 846,652)	0.46 (988,211)**
MAXIMUM IMPERVIOUS COVERAGE ON LOT	60%	57.16% (28.25 AC)	57.36% (28.35 AC)

\* SETBACK FROM PUNA BOULEVARD.

\*\* THE TOTAL BUILDING AREA FOR THE CCIC IS 200,876 SF. THE CCIC HAS A GFA OF 154,559 SF. A 12,000 SF PORTION OF THE FORMER FITNESS CENTER WILL BE DEMOLISHED. THEREFORE THE INCREASE IN GFA IS 142,359 SF.

## 6. PARKING REQUIREMENTS:

DISPLACED PARKING FROM CANCER CENTER PROJECT:	176 SPACES
DISPLACED PARKING FROM PUNA GARAGE:	182 SPACES
TOTAL DISPLACED:	358 SPACES

28,210 SF OF RENOVATION OF FORMER FITNESS CENTER: 113 SPACES

## REQUIRED PARKING FOR CANCER CENTER PROJECT:

4 PER 1,000 SF OF GFA	
154,559 SF REQUIRES 619 PARKING SPACES	
TOTAL REQUIRED	358 + 113 + 619 = 1,090 SPACES

BASED ON ORDINANCE 101-13.8.E(2), EV OR EV READY SPACES "SHALL COUNT AS AT LEAST TWO PARKING SPACES FOR THE PURPOSE OF COMPLYING WITH A MINIMUM PARKING SPACE REQUIREMENT. THIS SHALL RESULT IN A REDUCTION OF NO MORE THAN 10% OF THE TOTAL REQUIRED PARKING." THREE HUNDRED AND EIGHTY-EIGHT (388) EV AND EV READY SPACES WILL REDUCE THE PARKING REQUIREMENT BY 50 PARKING SPACES FOR A TOTAL OF 1,040 REQUIRED PARKING SPACES FOR THE CANCER CENTER. THIS IS NOT MORE THAN 10% OF THE REQUIRED PARKING (10% OF 1,090 IS 105 SPACES).

## PARKING PROVIDED:

1,161 SPACES WITHIN THE PARKING GARAGE

## PARKING RECONFIGURATION AS PART OF THE CCIC PROJECT:

PARKING CONFIGURATION BY LOT	EXISTING PARKING COUNT	PROPOSED PARKING COUNT	TOTAL
P2	260 STD. 11 ADA	202 STD. 28 ADA	-58 STD. +17 ADA
P3	133 STD. 14 ADA	51 STD.	-82 STD. -14 ADA
P4	287 STD.	261 STD.	-26 STD.
P6	29 STD. 25 ADA	19 STD. 31 ADA	-10 STD. +6 ADA
<b>TOTAL (P2 THROUGH P6)</b>	<b>709 STD. 50 ADA</b>	<b>533 STD. 59 ADA</b>	<b>-176 STD. +9 ADA</b>

7. ALL UTILITIES ARE TO BE PLACED UNDERGROUND IN ACCORDANCE WITH SECTION 85-29 OF TOWNSHIP ORDINANCE. ALSO ALL UTILITIES SHALL BE INSTALLED UNDERGROUND PRIOR TO THE PLACEMENT OF THE FINAL PAVEMENT.

8. ALL STORM SEWER SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED.

9. THE SITE IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH ADA AND NEW JERSEY BARRIER FREE CODE REQUIREMENTS.

10. ALL CONSTRUCTION SHALL CONFORM WITH TOWNSHIP OF PLAINSBORO REQUIREMENTS.

11. SOIL EROSION AND SEDIMENT CONTROL SHALL FALL UNDER THE JURISDICTION OF THE FREEHOLD SOIL CONSERVATION DISTRICT.

12. ALL EASEMENTS ARE DEDICATED TO THE TOWNSHIP OF PLAINSBORO UNLESS OTHERWISE NOTED.

13. ALL SIGNS SHALL BE DESIGNED IN ACCORDANCE WITH "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" FOR STREETS AND HIGHWAYS.

14. THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED ON THE DRAWINGS AND EACH DRAWING HAS BEEN REVISED TO INDICATE "ISSUED FOR CONSTRUCTION".

15. ALL DESIGN FEATURES DEPICTED HEREON WERE BASED ON CONSTRAINTS AND REGULATIONS IN EFFECT AT THE TIME OF PREPARATION AND INITIAL PRESENTATION OF THIS PLAN. ALL CURRENT DEVELOPMENT CONSTRAINTS SHOULD BE INVESTIGATED PRIOR TO COMMENCEMENT OF ANY ACTIVITY BASED ON THIS PLAN.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES FOR GAS, ELECTRIC, PHONE AND TV SERVICE LOCATIONS. LOCATED UTILITIES ARE SHOWN AS PLACED FROM THE DATA ON FILE. DATA ON FILE, UTILITIES ARE NOT LOCATED TO EXACTNESS. THE CONTRACTOR SHALL CONTACT UTILITIES AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATIONS. THE CONTRACTOR SHALL USE THE UTILITY LOCATIONS SHOWN AS AN AID IN DETERMINING EXACT LOCATIONS ONLY. CONTRACTOR SHALL CALL "NO ONE CALL" 811 (800-272-1000) PRIOR TO CONSTRUCTION.

17. SANITARY SEWER LINES SHALL BE SEPARATED FROM WATER MAINS BY AT LEAST 10 FEET HORIZONTALLY OR THE PIPE SHALL BE IN A SEPARATE TRENCHES WITH THE SEWER LINE 18 INCHES BELOW THE WATER MAIN. WHERE APPROPRIATE SEPARATION FROM THE WATER MAIN IS NOT POSSIBLE, THE SEWER SHALL BE ENCAUSED IN CONCRETE OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS WILL BE AS FAR AWAY FROM THE WATER LINE AS POSSIBLE.

18. TRASH AND WASTE DISPOSAL SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE TOWNSHIP OF PLAINSBORO. TRASH AND WASTE DISPOSAL SHALL BE PROVIDED BY A PRIVATE CARRER.

19. ALL PROPOSED SOD AND LAWN AREAS MUST BE GRADED WITH LIGHTWEIGHT CONSTRUCTION EQUIPMENT.

20. ALL GRADING SHALL BE A MINIMUM OF 2% AND A MAXIMUM OF 3' HORIZONTALLY TO 1' VERTICALLY ACROSS ALL LAWN AREAS AND AWAY FROM THE PROPOSED BUILDING. ALL STREET AND ACCESS DRIVES SHALL HAVE A MINIMUM CROSS SLOPE (CROWN) OF 2%.

21. ALL SIDEWALKS ADJACENT TO 90 DEGREE PARKING SHALL BE TWO (2) FEET FROM CURB LINE OR 6 FEET IN WIDTH.

22. A DETAILED SEQUENCE OF CONSTRUCTION AND CONTRACTOR'S STAGING PLAN SHALL BE PROVIDED TO SEPARATE AND MANAGE CONSTRUCTION TRAFFIC AND PUBLIC TRAFFIC. THIS WILL FURTHER ESTABLISH CONTRACTOR'S WORK AND STAGING AREAS FOR EACH PHASE OF CONSTRUCTION AND SHALL INCLUDE, BUT NOT BE LIMITED TO ITEMS RELATED TO THE PLACEMENT OF CONSTRUCTION OFFICE AND/OR CONSTRUCTION TRAILERS, OUTDOOR EQUIPMENT AND MATERIALS STORAGE, SAFETY AND SECURITY FENCING, VEHICULAR AND PEDESTRIAN CIRCULATION, INSTALLATION OF UNDERGROUND UTILITIES, PARKING AREA CONSTRUCTION AND CONSTRUCTION RELATED SIGNAGE.

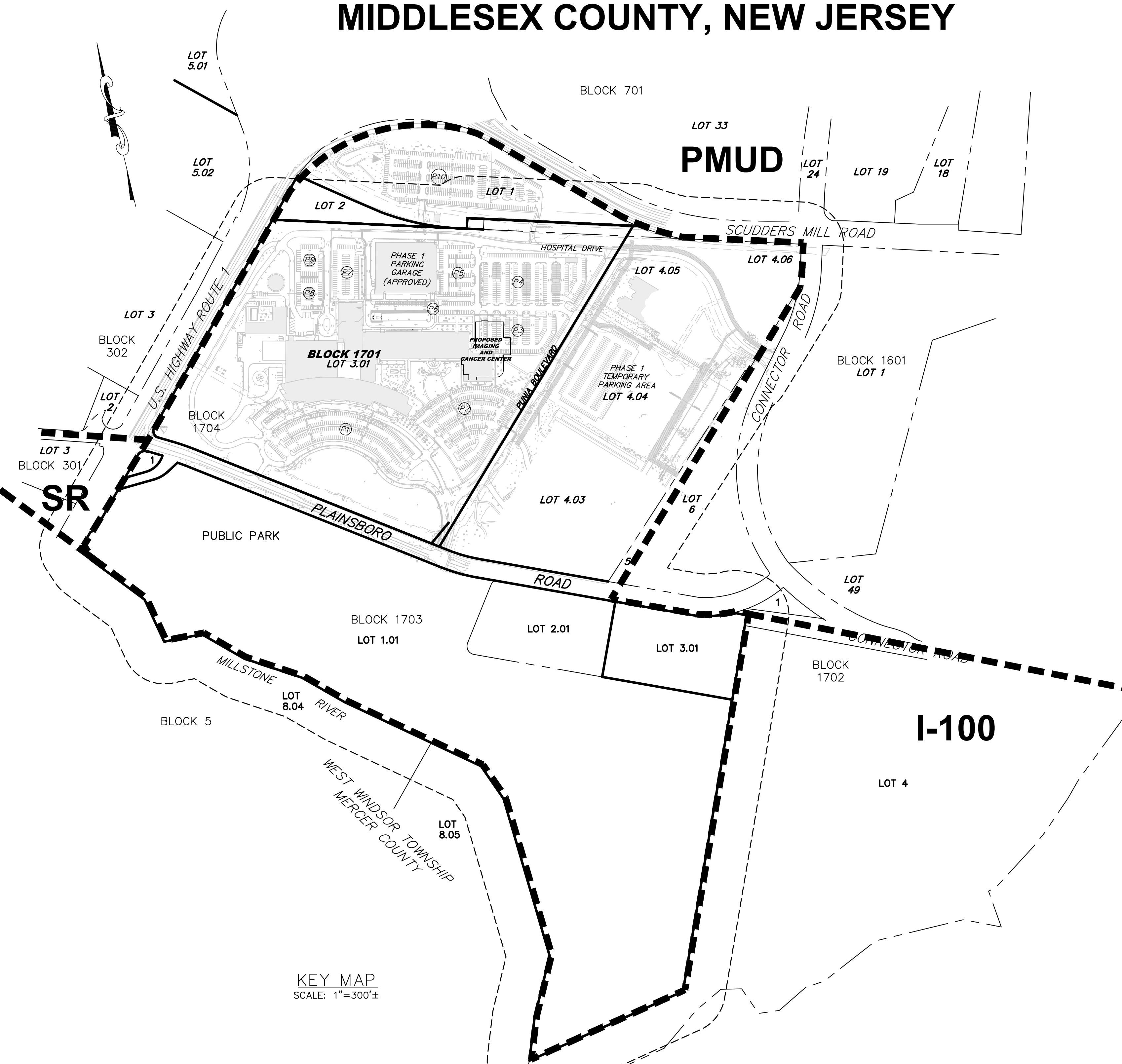
23. A HAULING PLAN SHALL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL FOR THE MOVEMENT OF ANY CONSTRUCTION MATERIALS OR DEMOLITION DEBRIS ON ROADWAYS LEADING FROM THE TOWNSHIP BORDER AND VICE VERSA.

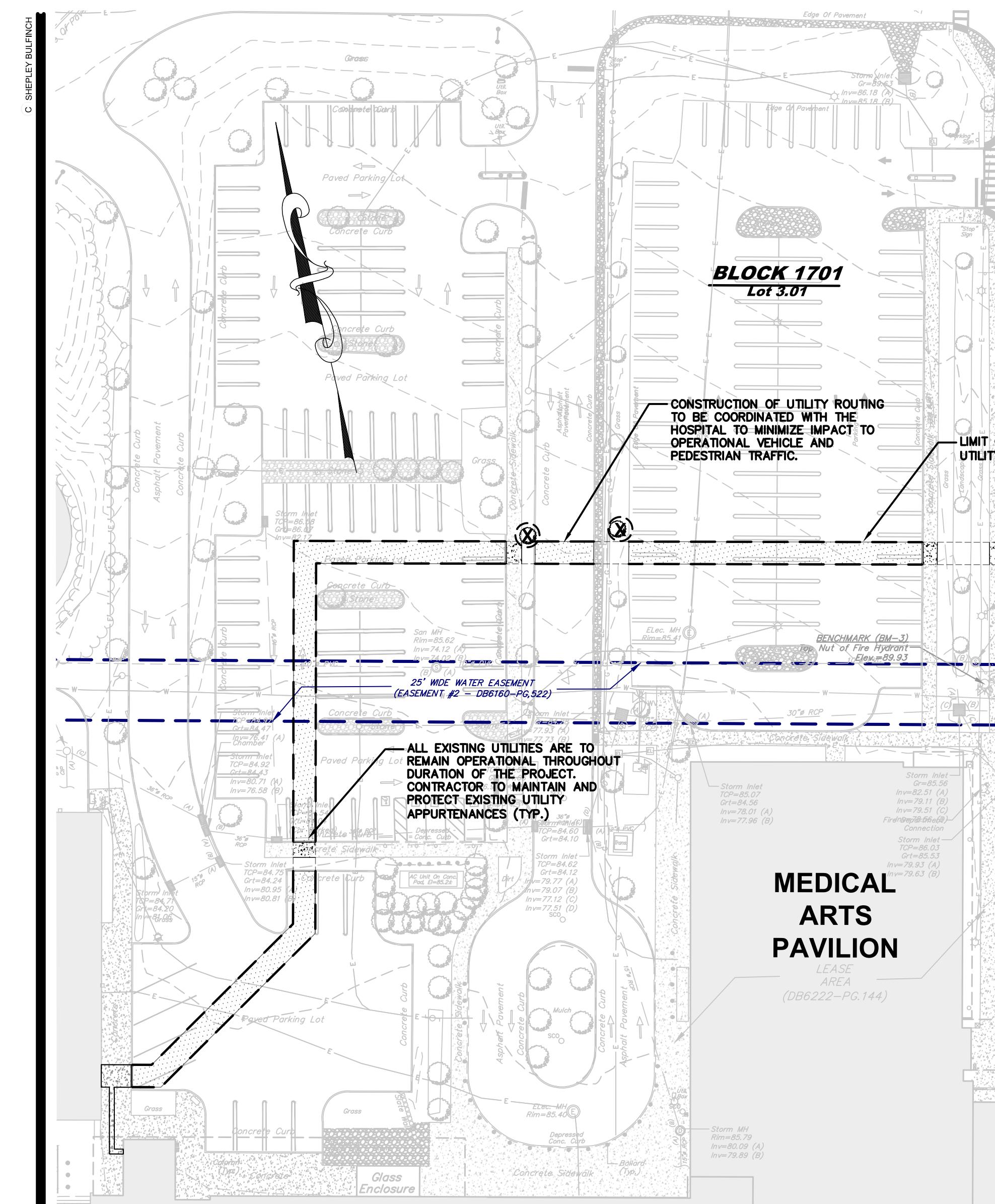
24. ANY IMPORTED FILL MEETS THE DEFINITION OF CLEAN FILL AS STATED IN THE NJDEP'S TECHNICAL REQUIREMENTS FOR SITE REMEDIATION AS FOUND AT N.J.A.C. 7:26E-18.

# PRELIMINARY AND FINAL MAJOR SITE PLAN FOR PENN MEDICINE PRINCETON HEALTH CANCER CENTER AND IMAGING CENTER (CCIC)

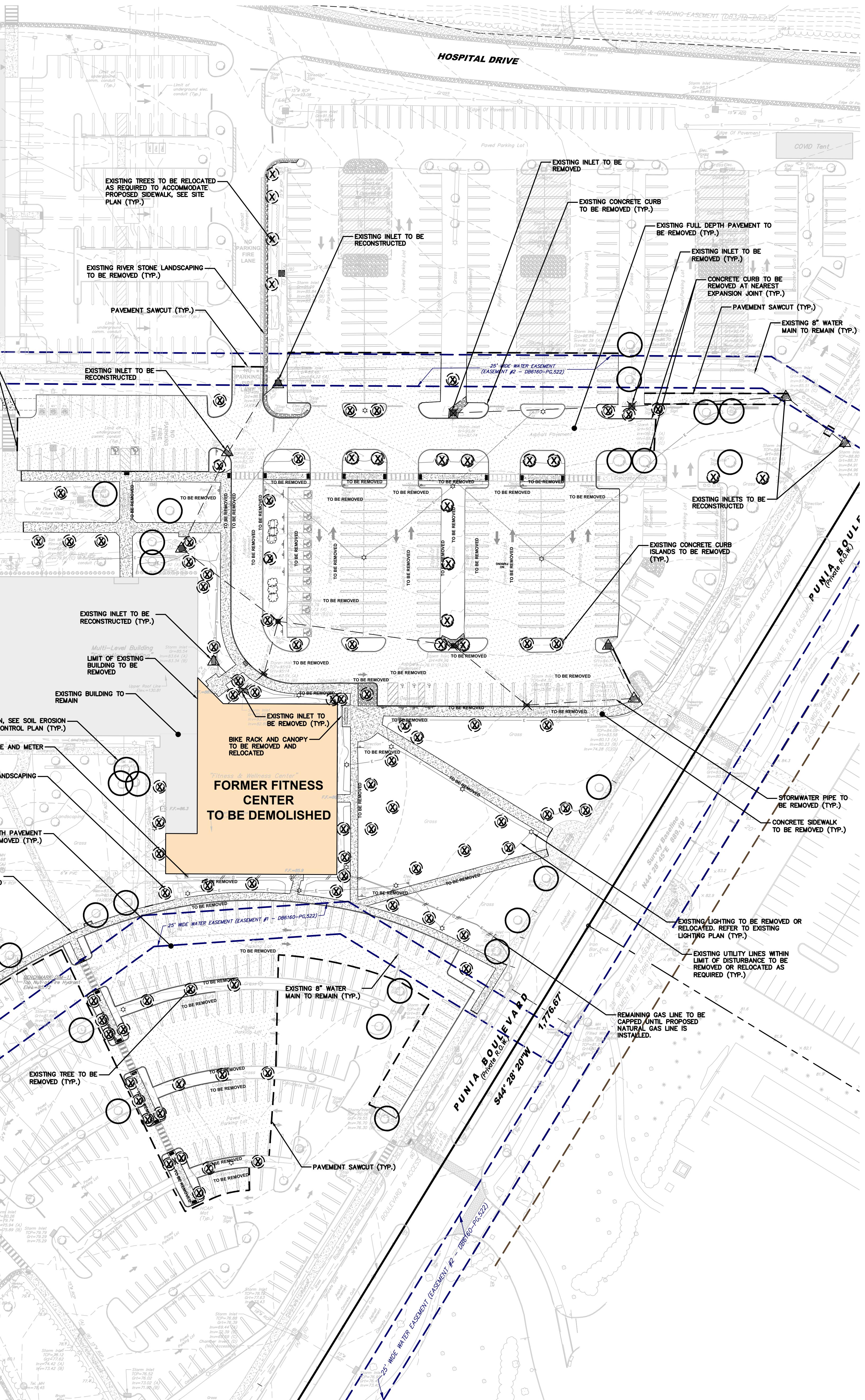
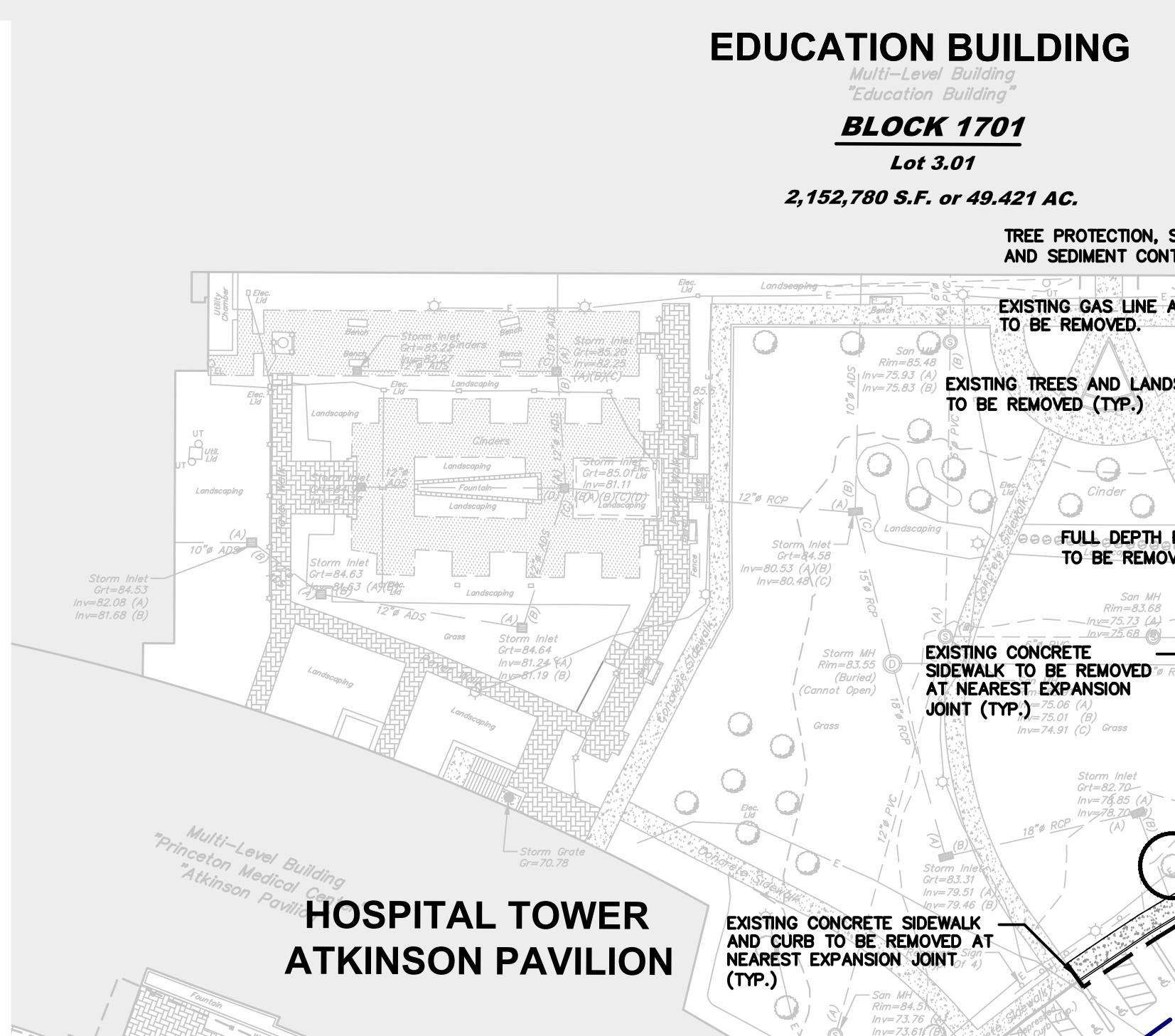
## BLOCK 1701, LOT 3.01

### TOWNSHIP OF PLAINSBORO MIDDLESEX COUNTY, NEW JERSEY





### APPROVED PARKING GARAGE



PENN MEDICINE  
PRINCETON  
HEALTH CCIC

1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO. 5260-000  
Block 1701, Lot 3.01  
Township of Plainsboro  
Middlesex County, New Jersey 08536

### EXISTING CONDITIONS AND DEMOLITION PLAN

**C202**

07/31/2024  
08/02/2024  
PACKAGE 0  
PACKAGE 1

07/31/2024  
08/02/2024  
PACKAGE 0  
PACKAGE 1

1 Plainsboro Road  
Plainsboro, NJ 08536

**Princeton  
Forward**

**Penn Medicine  
Princeton Health**

**SHEPLEY  
BULFINCH**

99 Chauncy Street 4th Floor  
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732.312.9800  
FPAEngineers.com

**ANDREW L. FRENCH, P.E.**  
PROFESSIONAL ENGINEER, N.J. LIC. No. 42894

**ISSUES**

1. 10/18/2024 REVISED PER DRC COMMENTS  
NO. DATE DESCRIPTION

**KEY PLAN**

PENN MEDICINE  
PRINCETON  
HEALTH CCIC

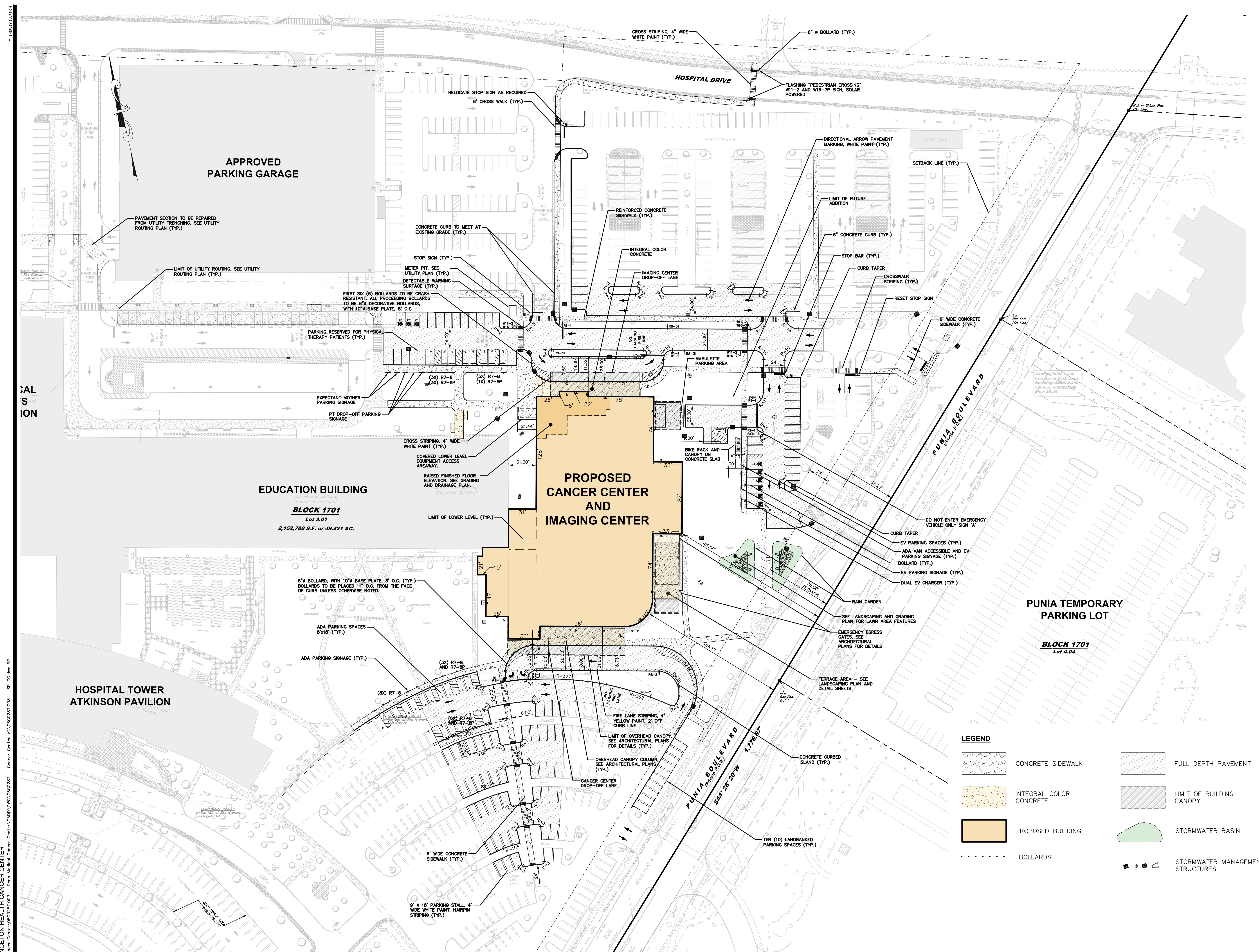
1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO. 5260-000  
Block 1701, Lot 3.01  
Township of Plainsboro  
Middlesex County, New Jersey 08536

### EXISTING CONDITIONS AND DEMOLITION PLAN

**C202**

07/31/2024  
08/02/2024  
PACKAGE 0  
PACKAGE 1

07/31/2024  
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PACKAGE 0  
PACKAGE 1



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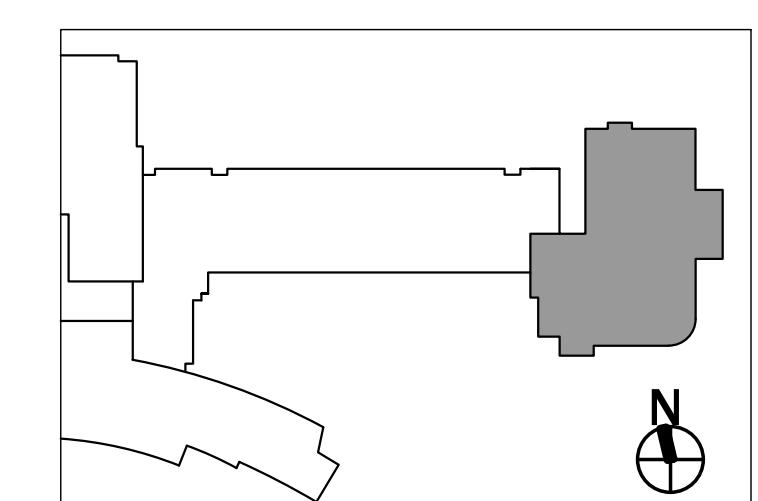
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NO. DATE		DESCRIPTION



**PENN MEDICINE**  
**PRINCETON**  
**HEALTH CCIC**

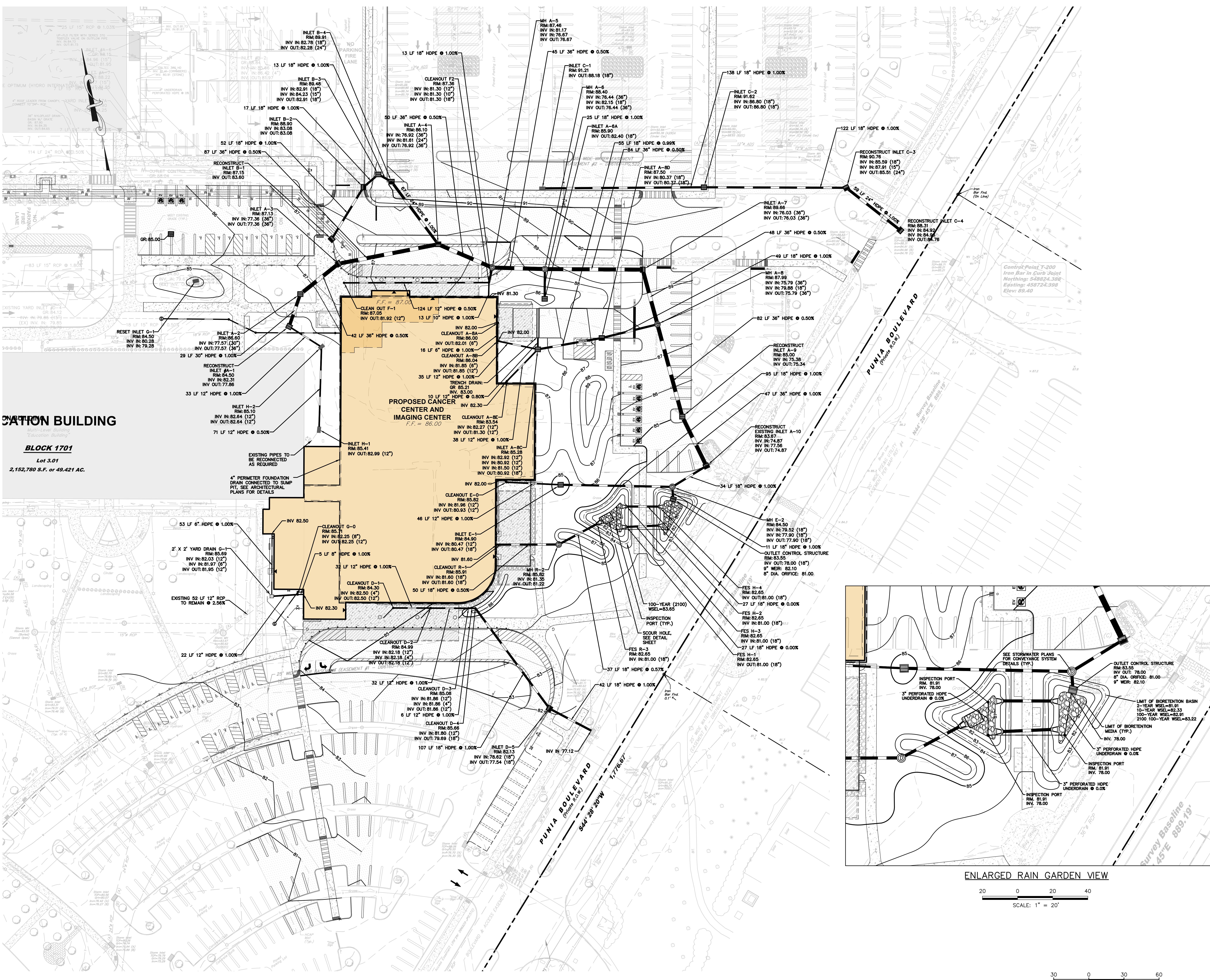
1 Plainsboro Road  
Plainsboro, NJ 08536  
Block 1701, Lot 4.00  
Township of Plainsboro  
Middlesex County, New Jersey 08536

**SITE AND LAYOUT PLAN**

**C203**

07/31/2024  
08/02/2024

PACKAGE 0  
PACKAGE 1



 Penn Medicine  
Princeton Health

## 1 Plainsboro Road

Plainsboro, NJ 08536

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**EPA** Environmental Protection Agency

Corporate  
1800 Rt 34, S  
Wall, New Jersey  
732.3

**FRENCH & PARRELO  
ASSOCIATES**

New Jersey ▲ New York ▲ Pennsylvania ▲ Georgia

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**ANDREW L. FRENCH, P.E.**  
**PROFESSIONAL ENGINEER, N.J. LIC. No. 42894**

A black and white line drawing of a map. The map features several large, irregularly shaped areas. The top area is a large rectangle with a jagged, stepped boundary on the left. The middle area is a long, narrow rectangle with a jagged boundary on the left. The bottom area is a large, irregular shape with a jagged boundary on the left. The right side of the map is shaded in a dark gray color. In the bottom right corner, there is a compass rose with a large 'N' indicating North.

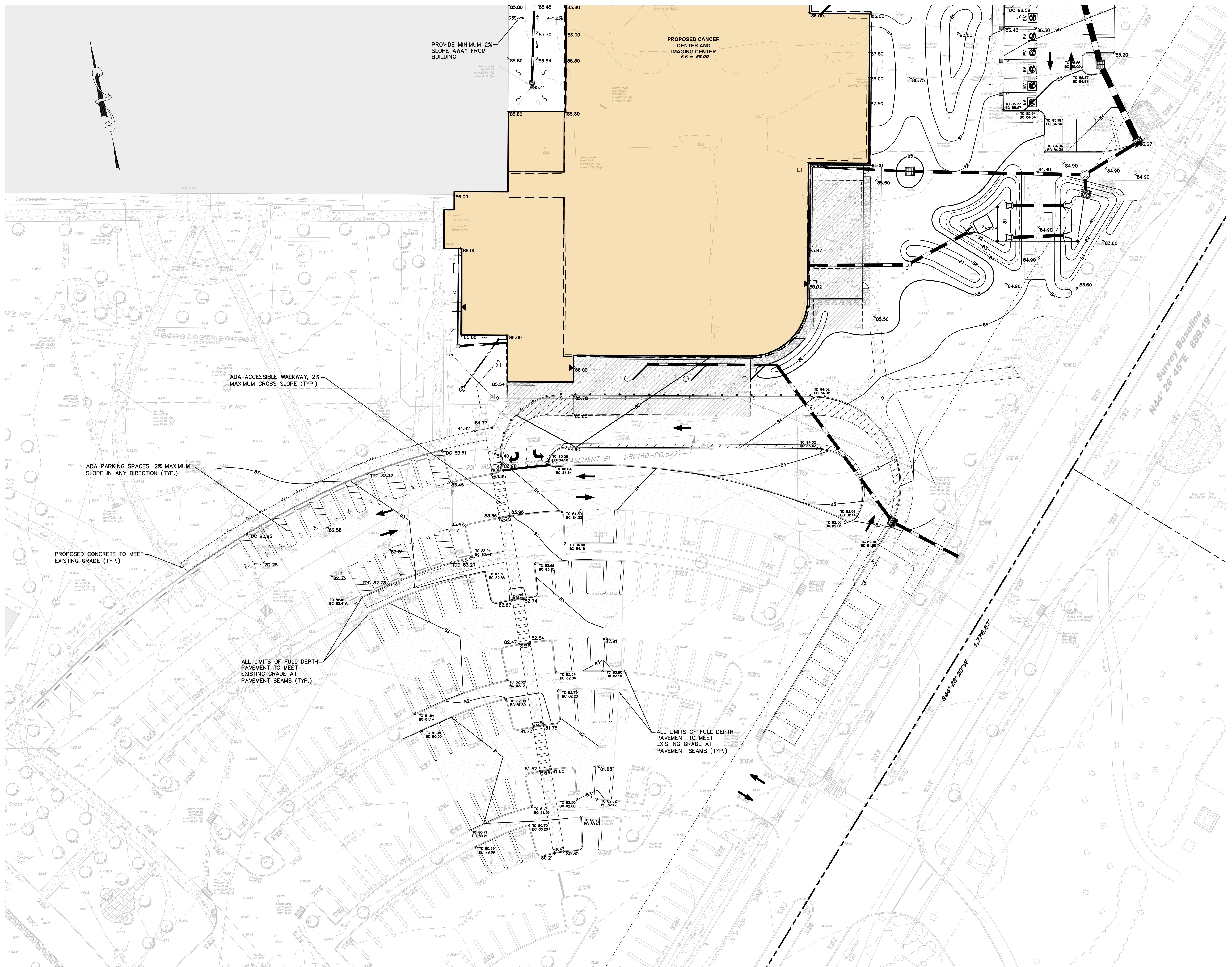
# PENN MEDICINE PRINCETON HEALTH CCIC

1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO: 5267.003  
Block 1701 Lot 3.01  
Township of Plainsboro  
Middlesex County, New Jersey 08536

# GRADING AND DRAINAGE PLAN

# C204





ENLARGED GRADING PLAN 2

C206

SCALE : 1" = 20'

07/31/2024 PACKAGE 0  
08/02/2024 PACKAGE 1

Penn Medicine  
Princeton Health

1 Plainsboro Road  
Plainsboro, NJ 08536

**SHEPLEY BULFINCH**

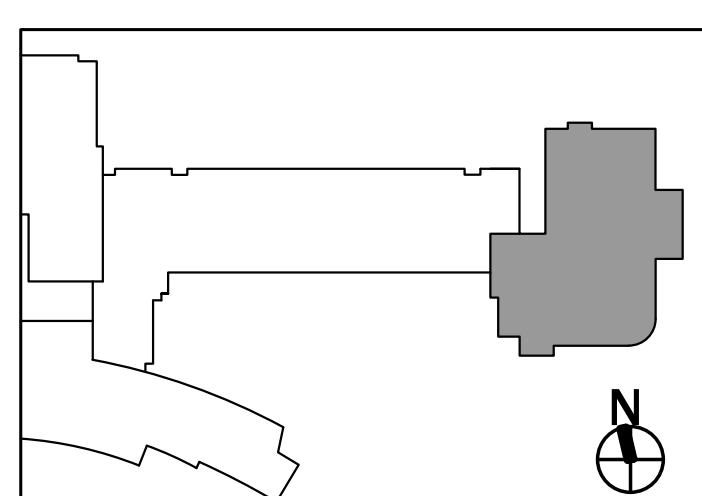
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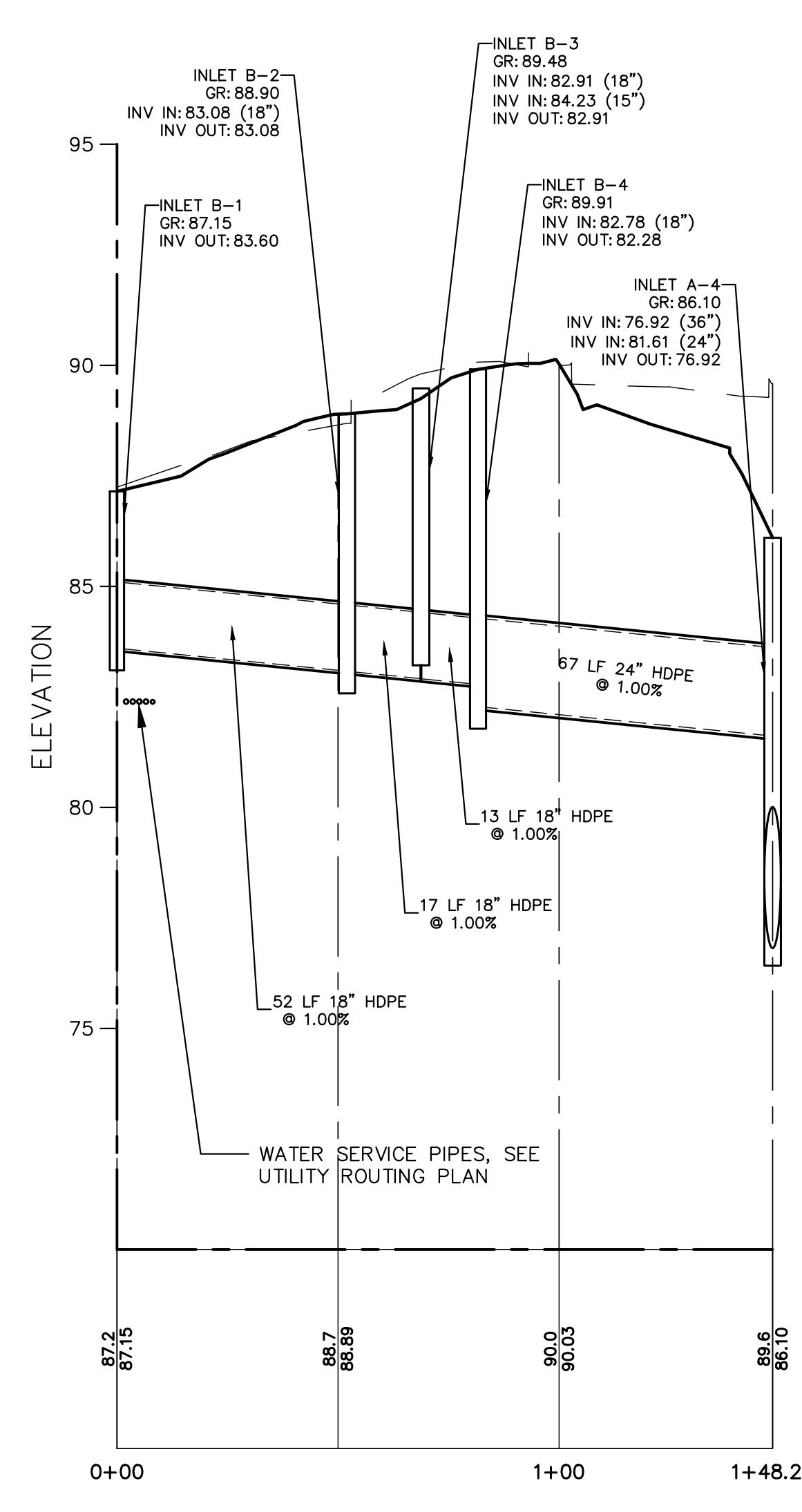
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PROFESSIONAL ENGINEER, N.J. LIC. NO. 42894

ISSUES
1 10/18/2024 REVISED PER DRC COMMENTS NO. DATE DESCRIPTION

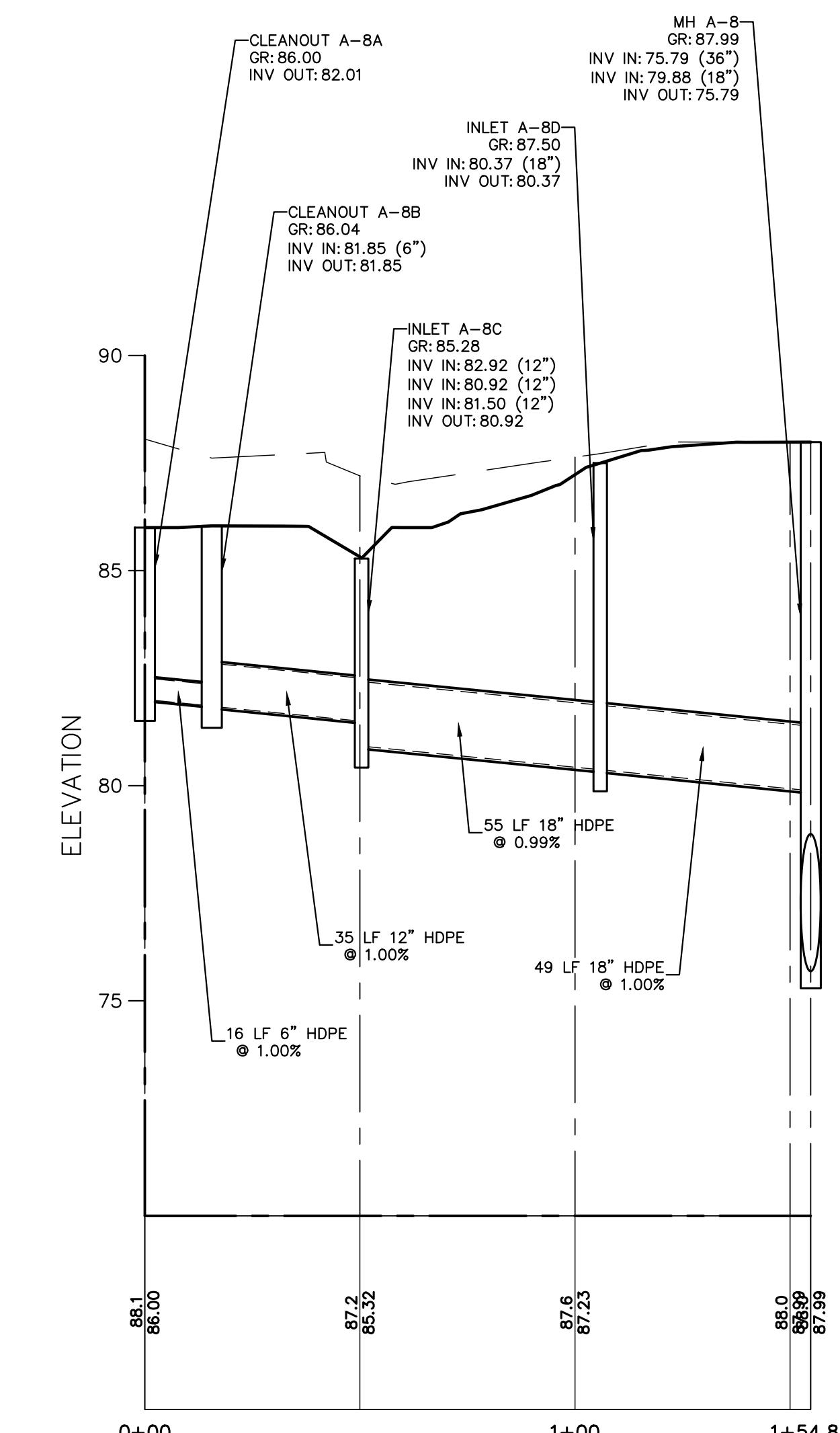


**PENN MEDICINE  
PRINCETON  
HEALTH CCIC**

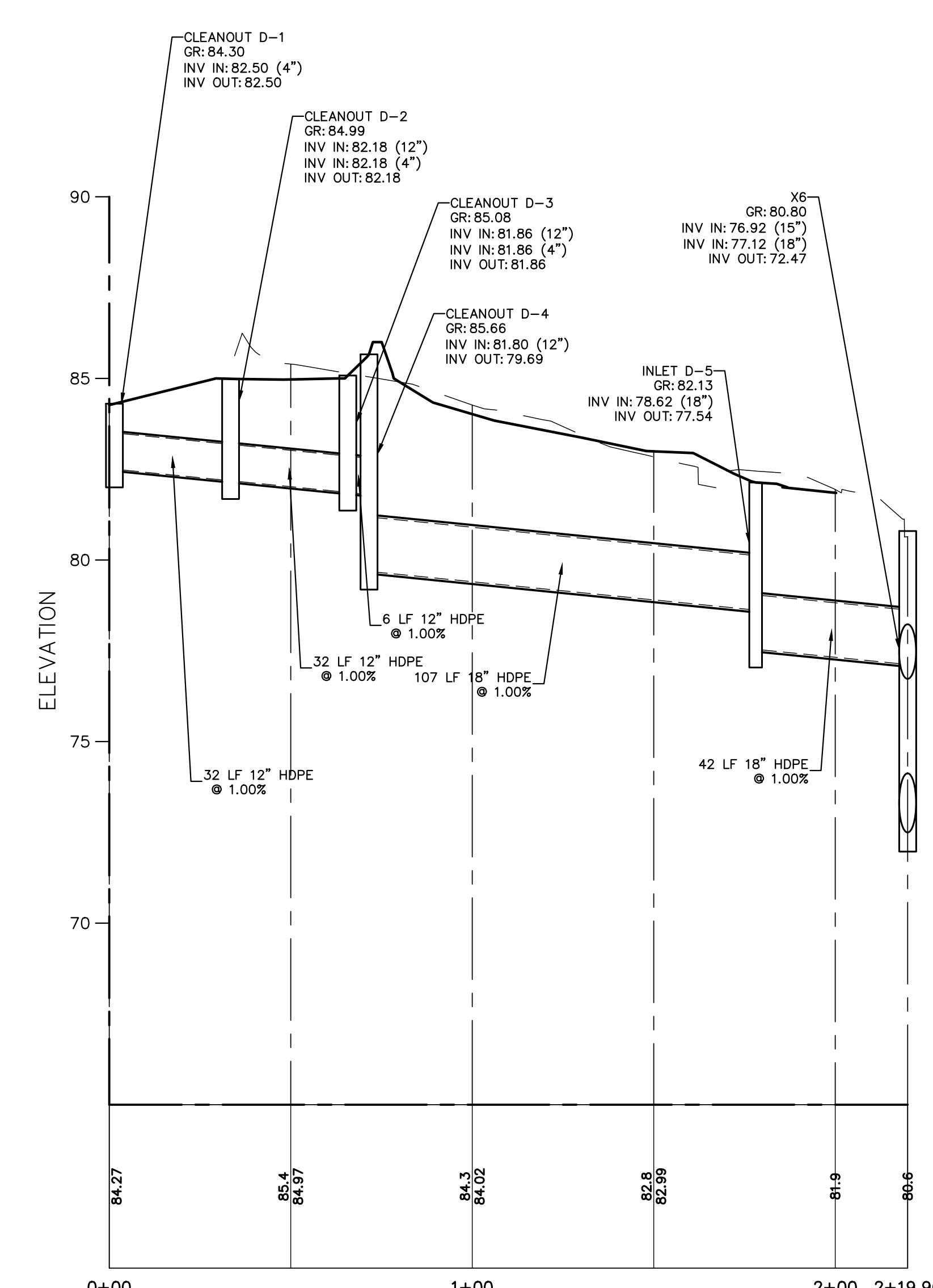
1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO. 5262-000  
Bldg. 1700, Lot 1-01  
Township of Plainsboro  
Middlesex County, New Jersey 08536



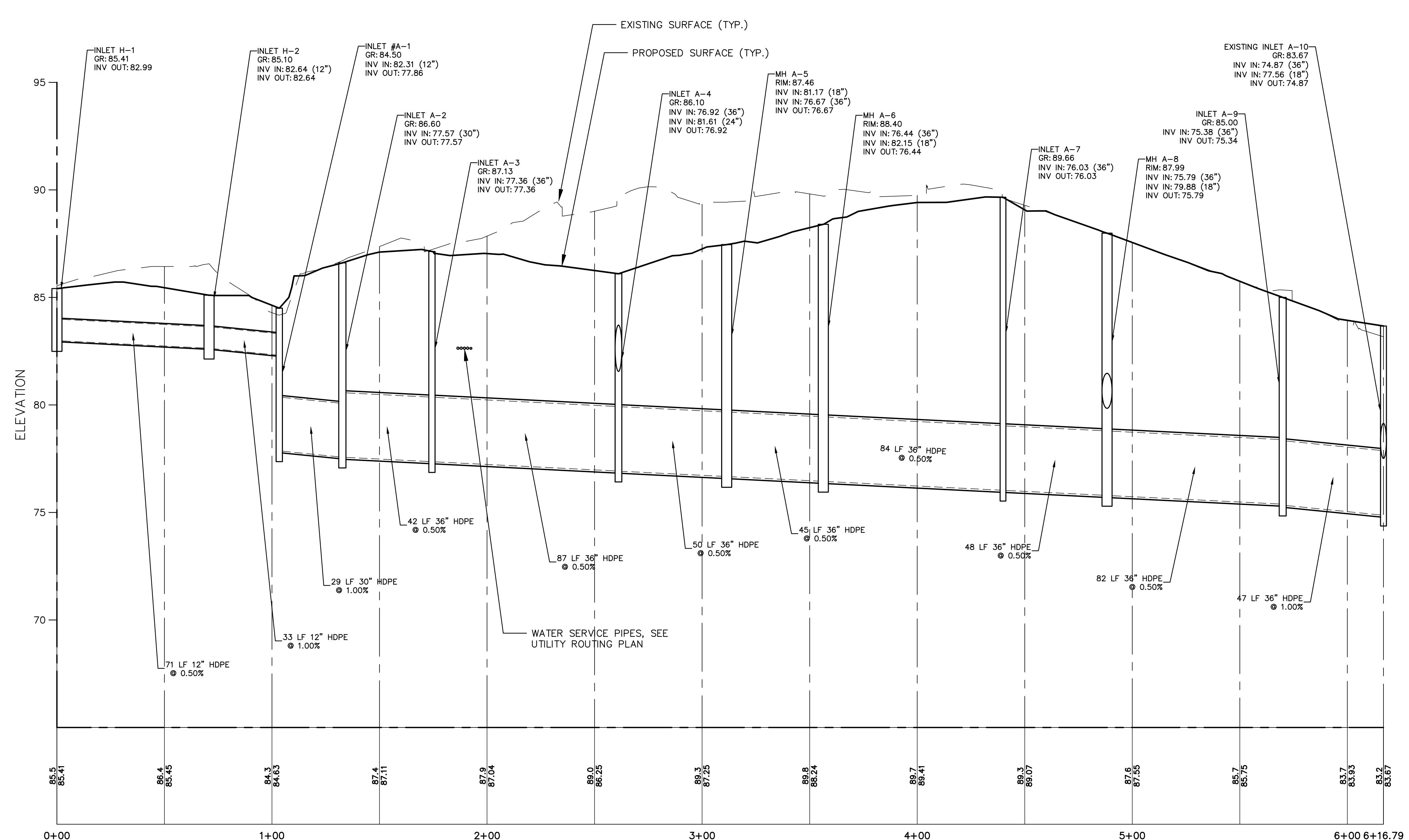
INLET B-1 TO INLET A-4



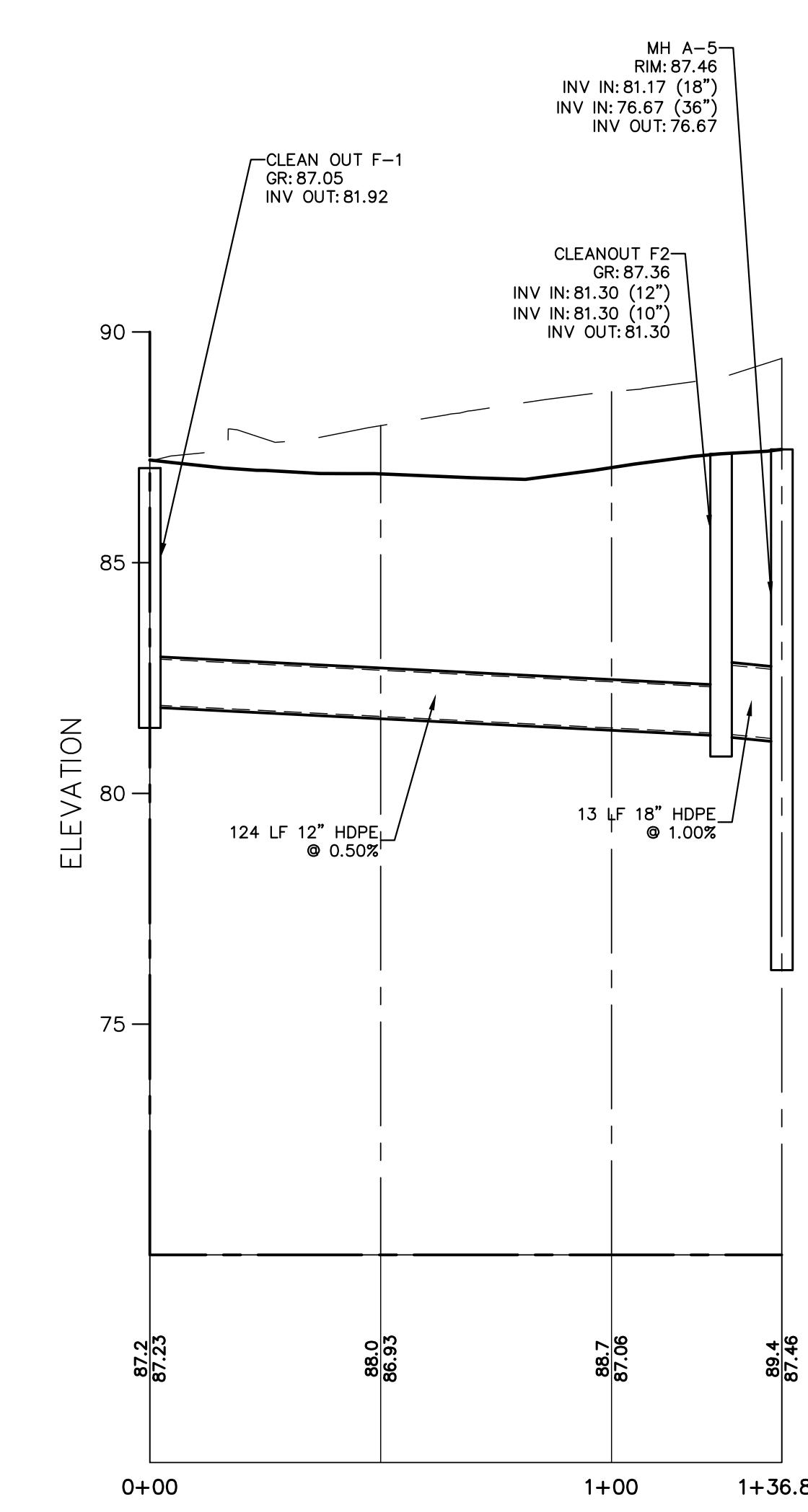
CLEANOUT A-8A TO MH A-8



CLEANOUT D-1 TO EXISTING INLET



INLET H-1 TO INLET A-10



CLEANOUT F-9 TO MH A-5

## PENN MEDICINE PRINCETON HEALTH CCIC

1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO. 5200-000  
BLDG. 170, Lvl 1-3  
Township of Plainsboro  
Middlesex County, New Jersey 08536

## STORMWATER MANAGEMENT PROFILES

**C207**

30 0 30 60  
SCALE : 1" = 30'  
10x VERTICAL EXAGGERATION



**Penn Medicine Princeton Health**  
1 Plainsboro Road  
Plainsboro, NJ 08536

**SHEPLEY BULFINCH**

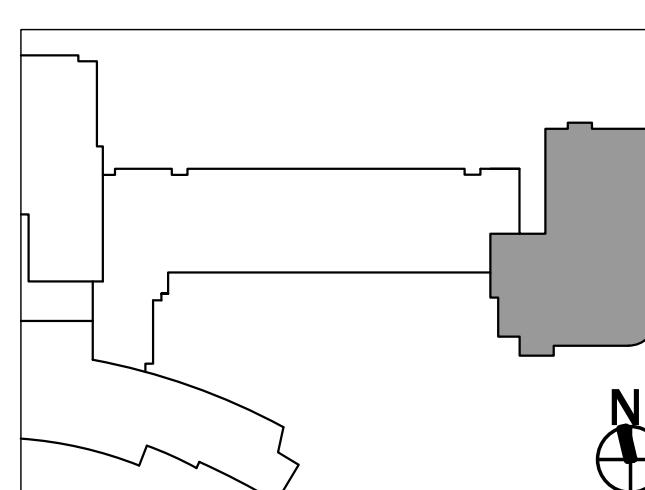
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STAMP

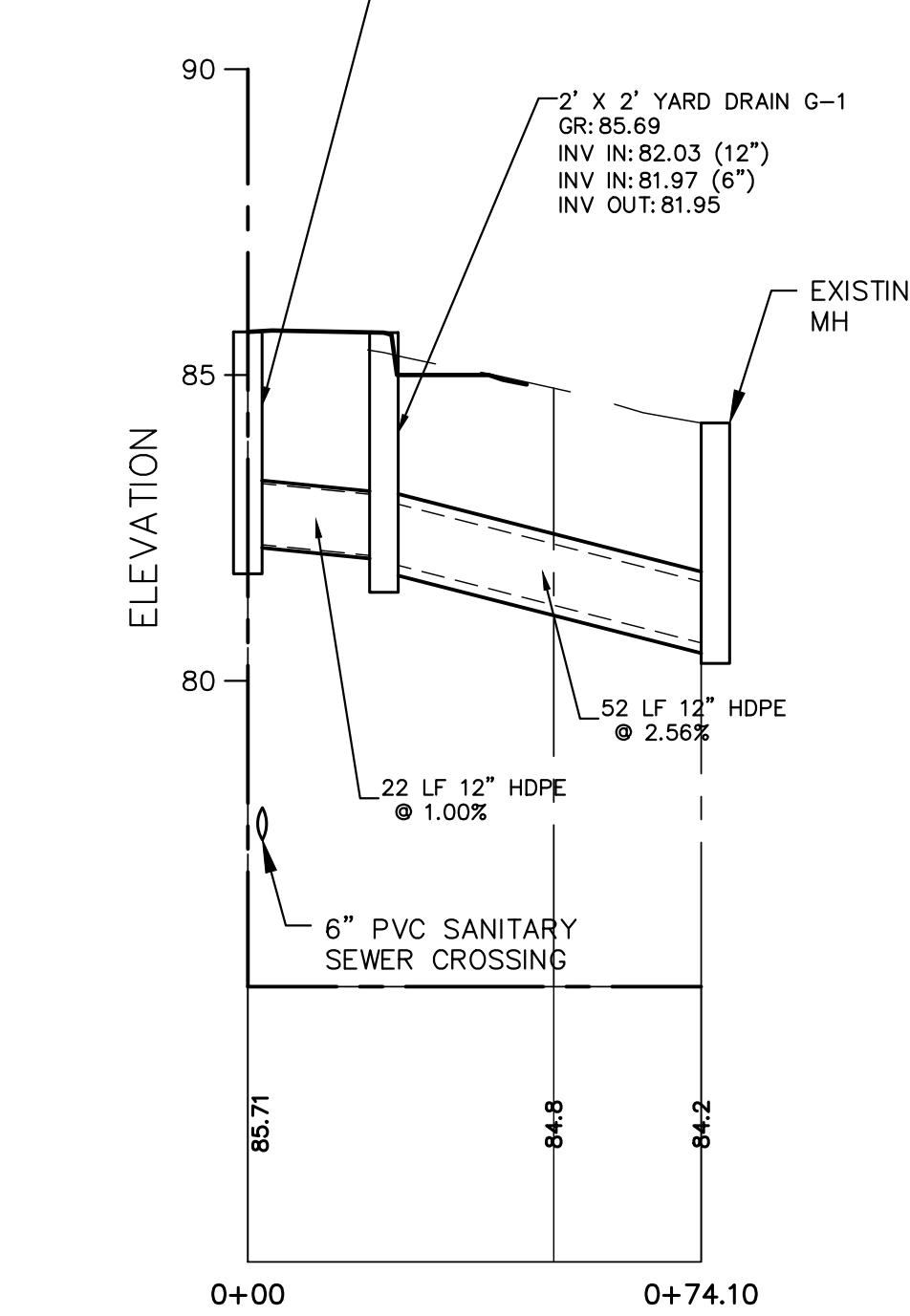
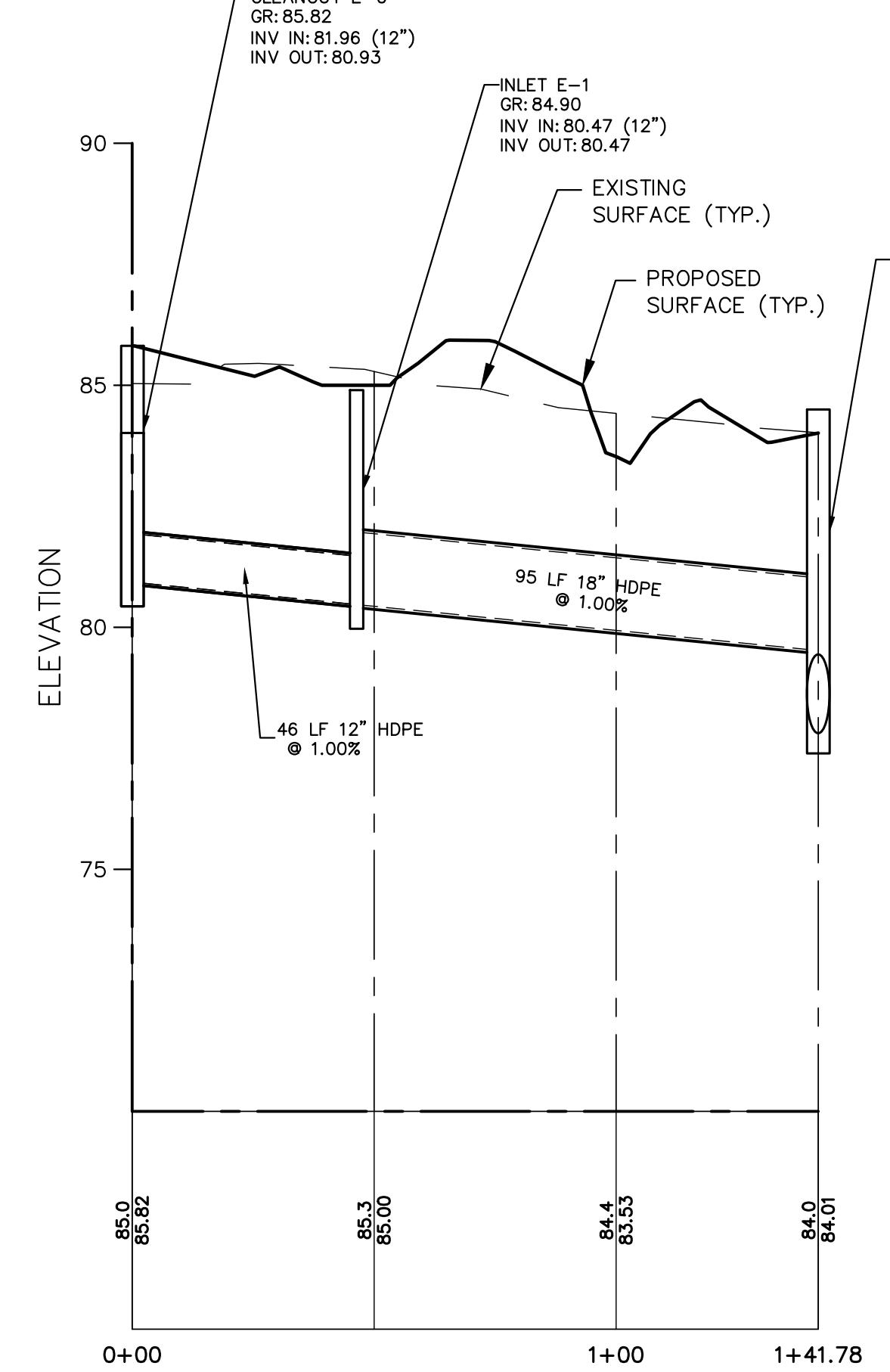
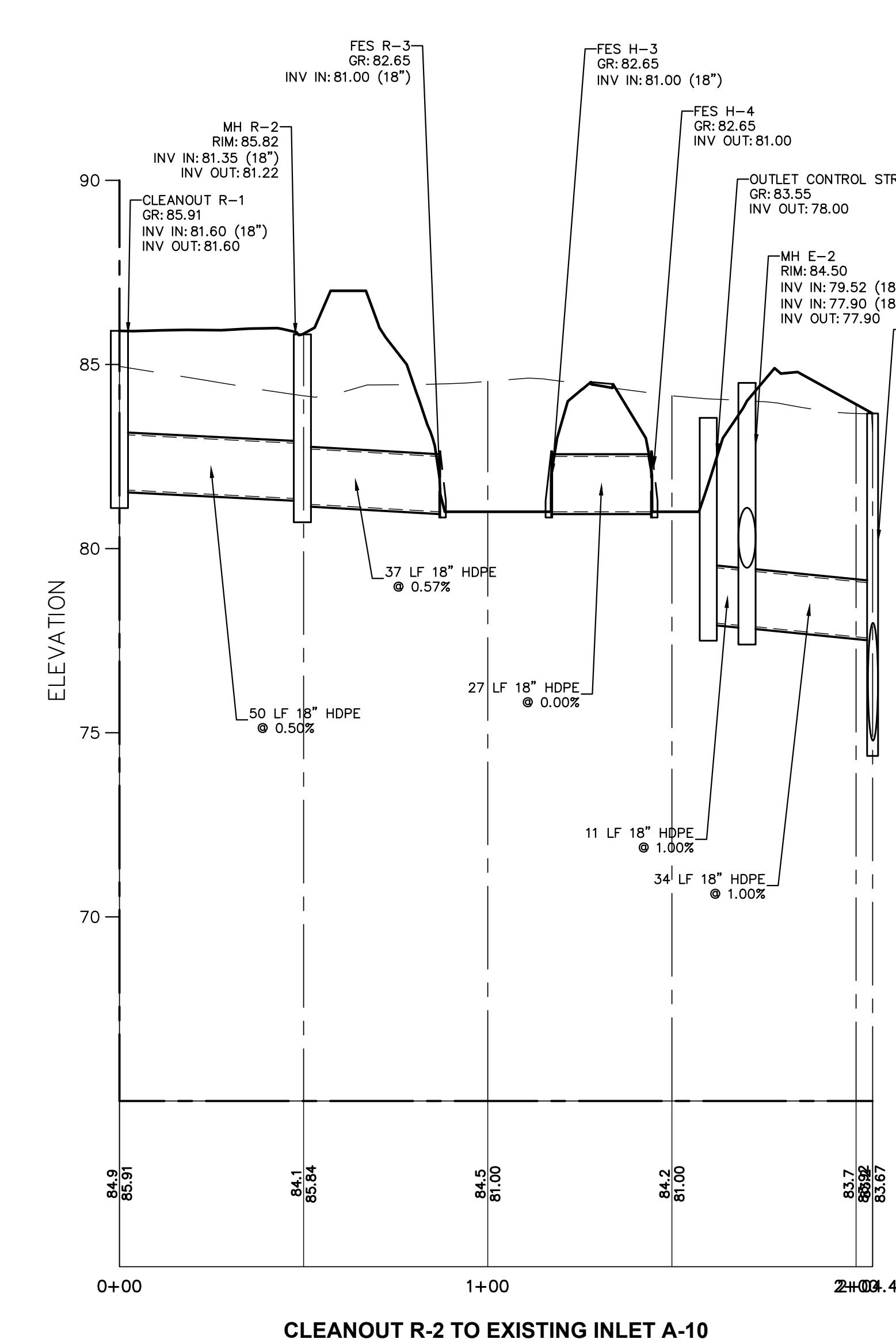
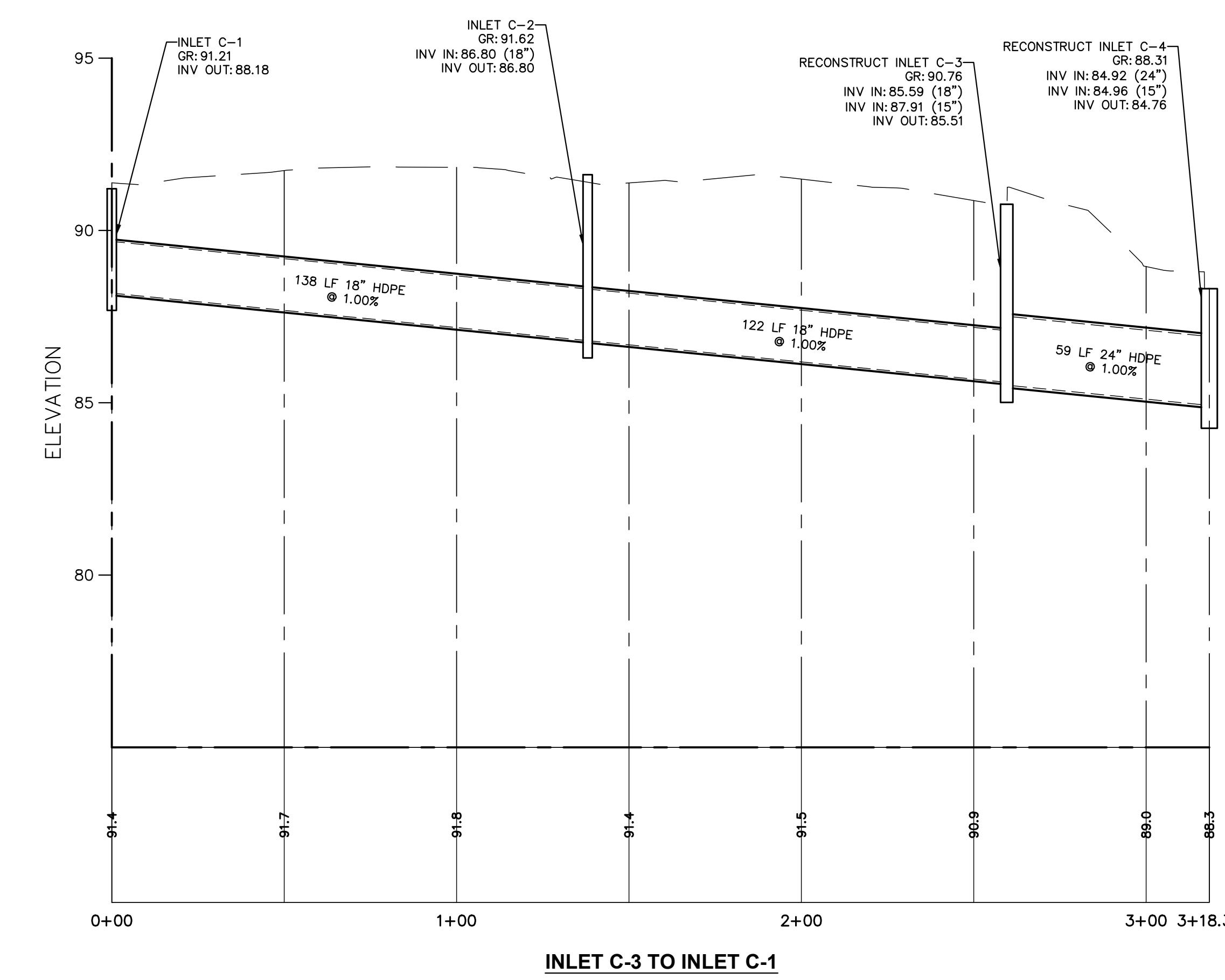
1	10/18/2024	REVISED PER DRC COMMENTS
NO.	DATE	DESCRIPTION



ISSUANCES

PROJECT INFORMATION

1 Plainsboro Road  
Plainsboro, NJ 08536  
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BLDG. 170, Lvl 1-3  
Township of Plainsboro  
Middlesex County, New Jersey 08536



PENN MEDICINE  
PRINCETON  
HEALTH CCIC

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Township of Plainsboro  
Middlesex County, New Jersey 08536

STORMWATER  
MANAGEMENT PROFILES  
2  
**C208**

30 0 30 60  
SCALE : 1" = 30'  
10x VERTICAL EXAGGERATION

07/31/2024 PACKAGE 0  
08/02/2024 PACKAGE 1



1 Plainsboro Road  
Plainsboro, NJ 08536

**SHEPLEY  
BULFINCH**

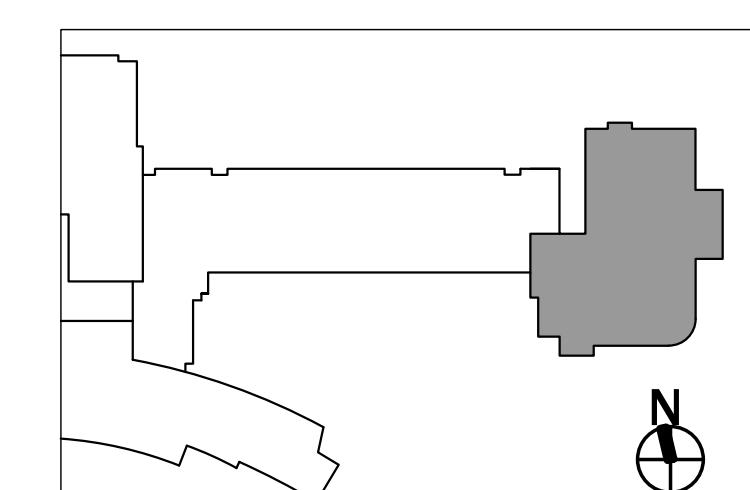
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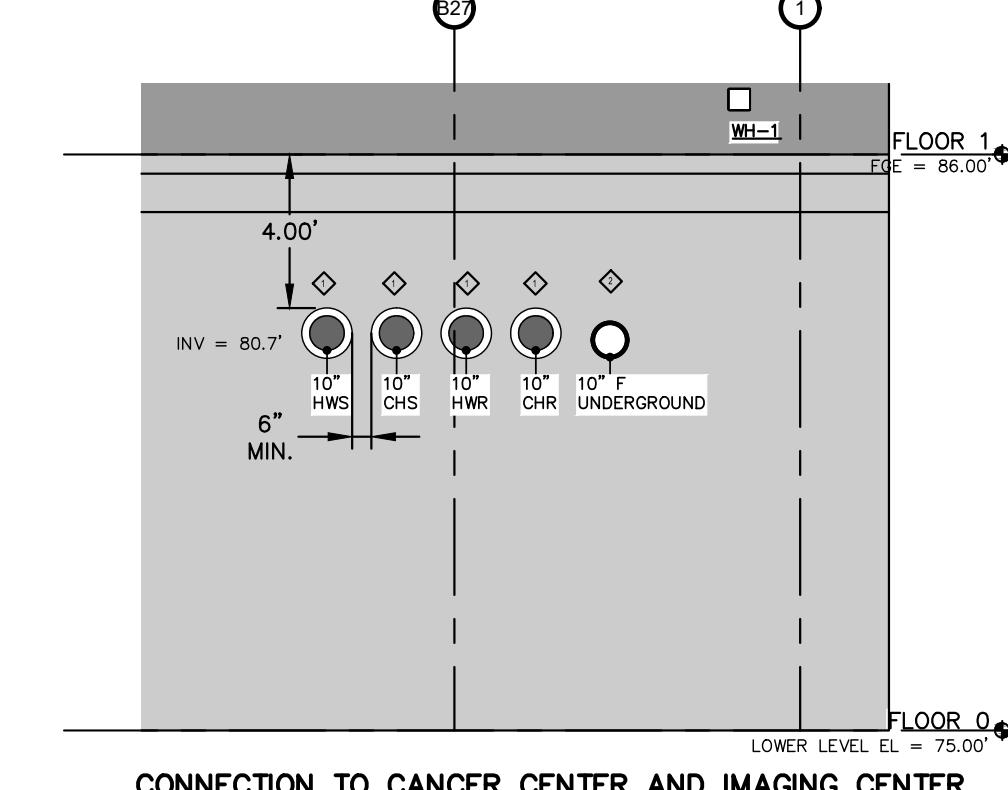
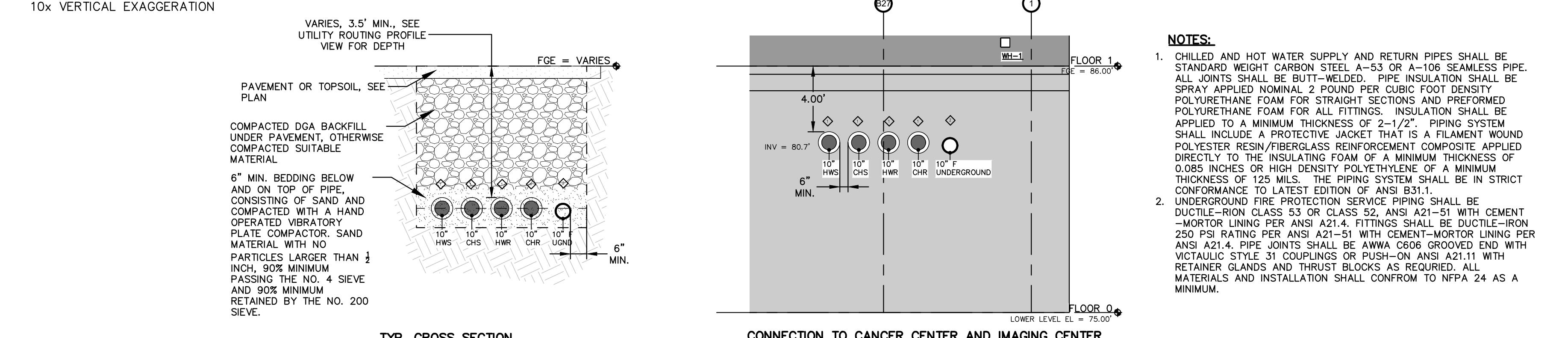
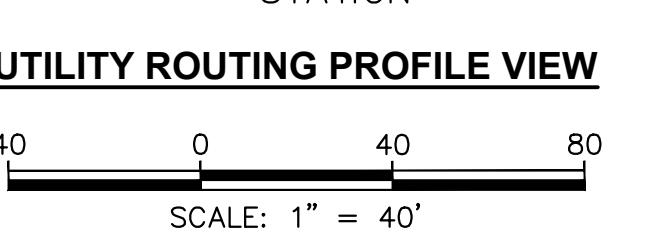
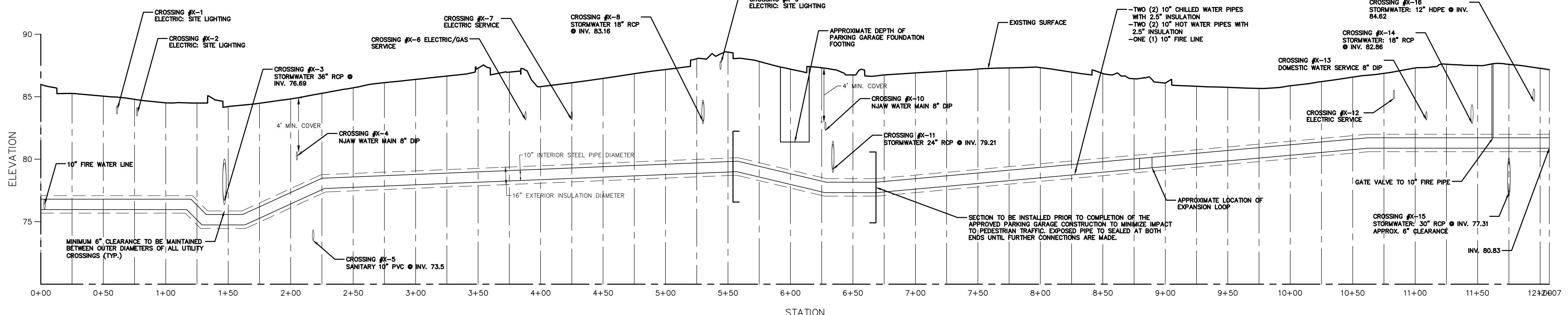
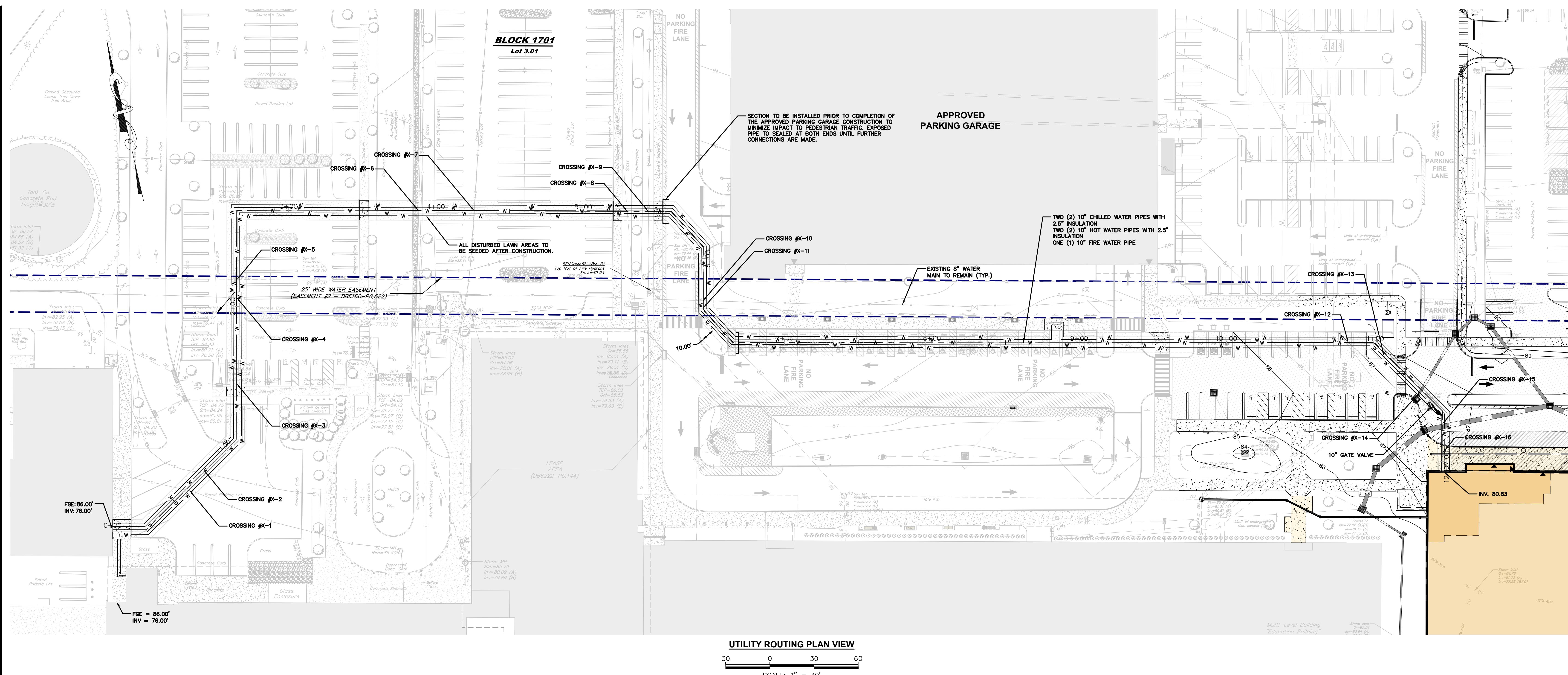
ISSUANCES	10/18/2024 REVISED PER DRC COMMENTS		
	NO.	DATE	DESCRIPTION
	1	10/18/2024	REVISED PER DRC COMMENTS



1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO. 5262-000  
BLDG NO. 1700, Lot 1-01  
Township of Plainsboro  
Middlesex County, New Jersey 08536

07/31/2024 PACKAGE 0  
08/02/2024 PACKAGE 1





**NOTES:**

1. CHILLED AND HOT WATER SUPPLY AND RETURN PIPES SHALL BE STANDARD WEIGHT CARBON STEEL A-53 OR A-106 SEAMLESS PIPE. ALL JOINTS SHALL BE BUTT-WELDED. PIPE INSULATION SHALL BE SPRAY APPLIED NOMINAL 2 POUND PER CUBIC FOOT DENSITY POLYURETHANE FOAM FOR STRAIGHT SECTIONS AND PREFORMED POLYURETHANE FOAM FOR ALL FITTINGS. INSULATION SHALL BE APPLIED TO A MINIMUM THICKNESS OF 2-1/2". PIPING SYSTEM SHALL INCLUDE A PROTECTIVE JACKET THAT IS A FILAMENT WOUND POLYESTER RESIN/FIBERGLASS REINFORCEMENT COMPOSITE APPLIED DIRECTLY TO THE INSULATING FOAM OF A MINIMUM THICKNESS OF 0.085 INCHES OR HIGH DENSITY POLYETHYLENE OF A MINIMUM THICKNESS OF 125 MILS. THE PIPING SYSTEM SHALL BE IN STRICT CONFORMANCE TO LATEST EDITION OF ANSI B31.1.
2. UNDERGROUND FIRE PROTECTION SERVICE PIPING SHALL BE DUCTILE-IRON CLASS 53 OR CLASS 52, ANSI A21-51 WITH CEMENT-MORTOR LINING PER ANSI A21.4. FITTINGS SHALL BE DUCTILE-IRON 250 PSI RATING PER ANSI A21-51 WITH CEMENT-MORTOR LINING PER ANSI A21.4. PIPE JOINTS SHALL BE AWWA C606 GROOVED END WITH VICTAULIC STYLE 31 COUPLINGS OR PUSH-ON ANSI A21.11 WITH RETAINER GLANDS AND THRUST BLOCKS AS REQUIRED. ALL MATERIALS AND INSTALLATION SHALL CONFROM TO NFPA 24 AS A MINIMUM.

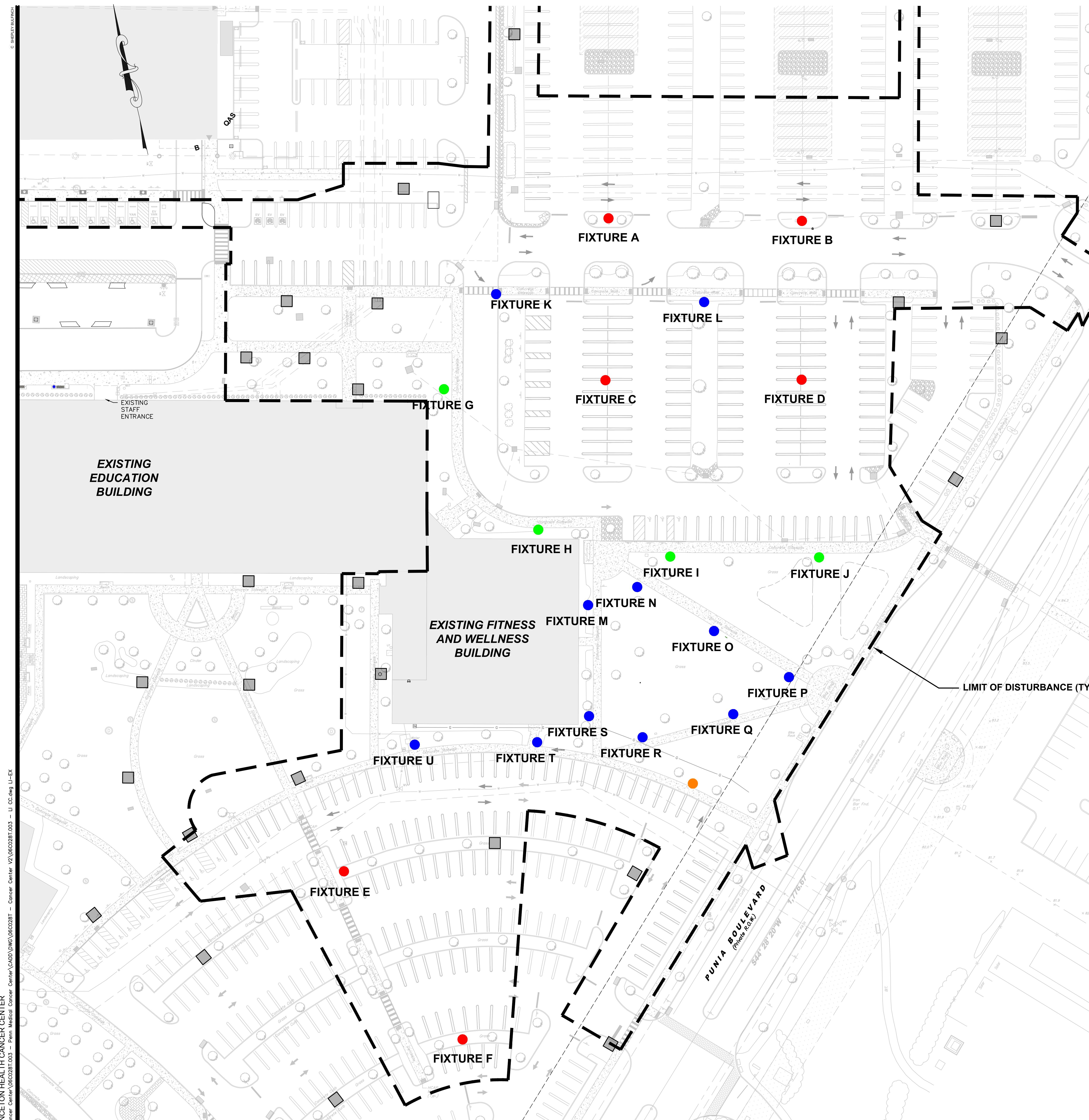
# PENN MEDICINE PRINCETON HEALTH CCIC

1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO: 5267.003  
Block 1701 Lot 3.01  
Township of Plainsboro  
Middlesex County, New Jersey 08536

# UTILITY ROUTING PLAN

# C210





**LEGEND:**

- EXISTING LIGHT FIXTURE AND POLE TO REMAIN
- EXISTING LIGHT FIXTURE AND POLE TO BE STORED FOR FUTURE USE
- REUSE/RELOCATE LIGHT FIXTURE AND 25' POLE (FIXTURES A THROUGH F)
- REUSE/RELOCATE 25' POLE, STORE LIGHT FIXTURE (FIXTURES G THROUGH J)
- REUSE/RELOCATE LIGHT FIXTURE AND 14' POLE (FIXTURES K THROUGH U)

**LIGHTING NOTES:**

1. THIS PLAN SHALL BE USED FOR THE LOCATIONS OF THE EXISTING EXTERIOR LIGHTING WITHIN THE PROPOSED CANCER CENTER LIMIT OF DISTURBANCE ONLY.
2. THE CONTRACTOR SHALL REMOVE ALL EXISTING LIGHT FIXTURES AS SHOWN FOR RE-USE AND/OR STORAGE. THE CONTRACTOR SHALL CONSULT WITH THE LIGHTING MANUFACTURER FOR DIRECTIONS FOR PROPER STORAGE OF THE EXISTING LIGHTS. THE STORAGE LOCATION SHALL BE DETERMINED BY THE OWNER.
3. ANY LIGHTS THAT ARE TO REMAIN SHALL BE PROPERLY PROTECTED FROM CONSTRUCTION ACTIVITIES. ANY DAMAGE THAT OCCURS TO THESE LIGHTS SHALL BE REMEDIED BY THE CONTRACTOR AT NO COST TO THE OWNER.
4. ANY DAMAGE THAT OCCURS TO IMPROPER STORAGE OF THE LIGHTS DURING CONSTRUCTION SHALL BE REMEDIED BY THE CONTRACTOR AT NO COST TO THE OWNER.
5. THE CONTRACTOR IS RESPONSIBLE TO DISCONNECT THE POWER SUPPLY AND REMOVAL OF EXISTING CONDUIT AND WIRING AS APPLICABLE. PLEASE REFER TO THE ELECTRICAL PLANS FOR SCOPE OF WORK AND SPECIFICATIONS FOR REMOVAL, RELOCATION AND POWER SUPPLY FOR NEW LIGHTING FIXTURES.
6. THE CONTRACTOR IS RESPONSIBLE TO EXCAVATE, REMOVE AND DISPOSE OF CONCRETE FOUNDATIONS AND FOR PROPERLY BACKFILLING ALL EXCAVATIONS.



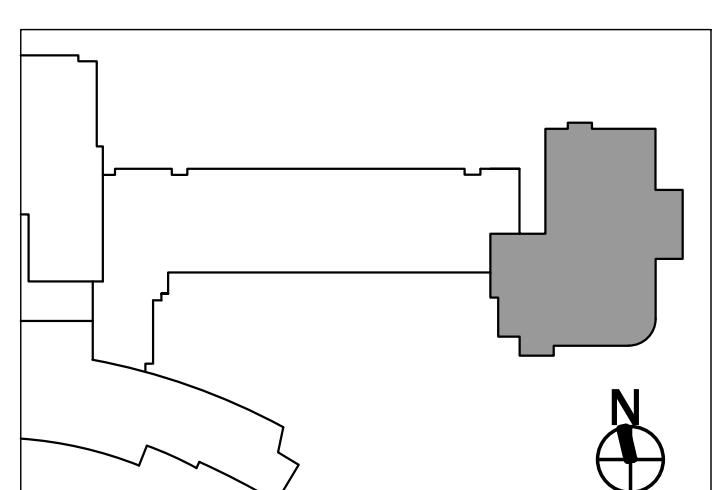
1 Plainsboro Road  
Plainsboro, NJ 08536

**SHEPLEY BULFINCH**  
99 Chauncy Street 4th Floor  
Boston, MA 02111  
T: 617.423.1700 | F: 800.934.9691  
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**FPA**  
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Wall, New Jersey 07719  
732.312.9800  
FPAengineers.com

ANDREW L. FRENCH, P.E.  
PROFESSIONAL ENGINEER, N.J. LIC. NO. 42894

ISSUES	1. 10/18/2024	REVISED PER DRC COMMENTS
NO. DATE	DESCRIPTION	



**PENN MEDICINE  
PRINCETON  
HEALTH CCIC**

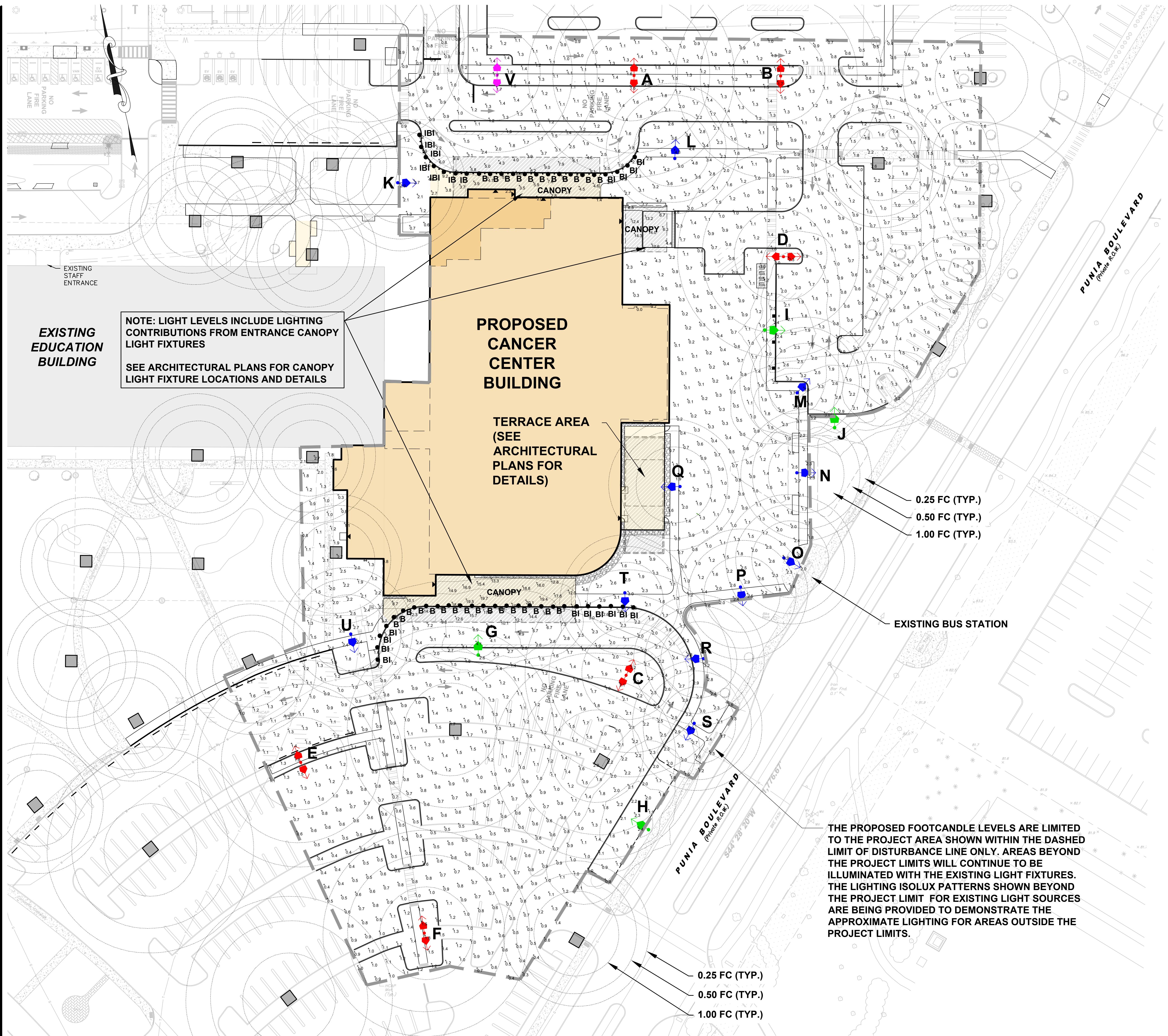
1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO. 5262-000  
BLW 1700-141-2-01  
Township of Plainsboro  
Middlesex County, New Jersey 08536

**EXISTING LIGHTING  
PLAN**

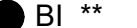
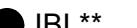
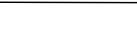
**C212**

30 0 30 60  
SCALE : 1" = 30'

07/31/2024  
08/02/2024  
PACKAGE 0  
PACKAGE 1



PROPOSED FOOTCANDLE LEVELS ARE LIMITED TO THE PROJECT AREA SHOWN WITHIN THE DASHED LINE OF DISTURBANCE LINE ONLY. AREAS BEYOND PROJECT LIMITS WILL CONTINUE TO BE MINATED WITH THE EXISTING LIGHT FIXTURES. LIGHTING ISOLUX PATTERNS SHOWN BEYOND PROJECT LIMIT FOR EXISTING LIGHT SOURCES BEING PROVIDED TO DEMONSTRATE THE APPROXIMATE LIGHTING FOR AREAS OUTSIDE THE PROJECT LIMITS.

Diversified NJ Luminaire Schedule										
Symbol	Qty ^^	Description	Manufacturer	AFG (FT)	Light Fixture	CCT	Lum. Lumens	LLF	Lum. Watts	Pole / Bracket
	4	SINGLE TYPE 3	ARCHITECTURAL AREA LIGHTING	25	M22-P-36L-615-3K7-3-CL-COLOR-CONFIRM EXISTING POLE DIA-VOLTS R56 - 25'	3000k	7630	0.880	71.13	REUSE FIXTURE ON EXISTING 25' POLE (LIGHT FIXTURE SETUPS G THROUGH J)
	14	BOLLARD	FORMS+SURFACES	3.5	LBCB500/SECTOR180/VOLTS/COLOR/R56	3000k	539	0.880	21.1	NEW BOLLARD **
	5	BOLLARD	FORMS+SURFACES	3.5	LBCB500/SECTOR180/VOLTS/COLOR/S10-P1/R56	3000k	539	0.880	21.1	NEW BOLLARD, SECURITY CORE **
	6	TWIN TYPE 5	ARCHITECTURAL AREA LIGHTING	25	M22-2P-36L-615-3K7-5W-CL-COLOR-X"_ODMNT VOLTS R56 - EXISTING POLE - 25'	3000k	7787	0.880	71.13	REUSE EXISTING FIXTURES AND 25' POLE (LIGHT FIXTURE SETUPS A THROUGH F)
	11	SINGLE TYPE 5	ARCHITECTURAL AREA LIGHTING	14	M22-P-36L-615-3K7-5W-CL-COLOR-X"_ODMNT VOLTS R56 - EXISTING POLE - 25'	3000k	7787	0.880	71.13	REUSE EXISTING FIXTURES AND 14' POLE (LIGHT FIXTURE SETUPS K THROUGH U)
	1	TWIN TYPE 5	ARCHITECTURAL AREA LIGHTING	25	M22-2P-36L-615-3K7-5W-CL-PSS-X"_ODMNT VOLTS R56	3000k	7787	0.880	71.13	NEW FIXTURE AND NEW 25' POLE (LIGHT FIXTURE V)

#### Project Contact Information:

**Matt Sterner**  
**Sales Manager**

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Fairfield, NJ 07004  
E-Mail: [msterner@divnj.com](mailto:msterner@divnj.com)  
Telephone: 973.439.1524  
Mobile: 908.907.8462

DIV GRP CALCULATON							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	1.1	20.1	0.0	N.A.	N.A.
DRIVE LANE	Illuminance	Fc	1.3	2.5	0.5	2.5	5.0
PARKING LOT NORTH	Illuminance	Fc	1.3	3.3	0.4	3.3	8.3
PARKING LOT SOUTH	Illuminance	Fc	1.1	2.9	0.4	2.8	7.3
WALKING PATH	Illuminance	Fc	1.8	2.6	0.7	2.5	3.7

## NOTES:

\*\* ALL ILLUMINATED BOLLARDS ARE FOR ROADWAY LIGHTING PURPOSES

^ QUANTITIES SHOWN IN THE SCHEDULE ARE FOR INFORMATIONAL PURPOSES ONLY.  
SHOULD ANY DISCREPANCIES EXIST BETWEEN THE SCHEDULE AND LIGHTING PLAN, THE LIGHTING PLAN QUANTITIES SHALL GOVERN

THE ORIGINAL OF THIS DRAWING IS 36" X 48". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED. TAKE APPROPRIATE PRECAUTIONS ACCORDINGLY.

THE ORIGINAL OF THIS DRAWING IS 30 X 10 IN. THIS IS A MUCH SMALLER SIZE; IT HAS EITHER BEEN REDUCED OR ENLARGED. MAKE ANY REPRODUCTION ACCORDINGLY.

## **LIGHTING NOTES:**

- 1. DO NOT INSTALL PROPOSED LIGHTS DIRECTLY ON TOP OF ANY PROPOSED OR EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UTILITIES AND ADJUST LIGHTS AS NEEDED AS DIRECTED BY THE PROJECT PROFESSIONAL TO ACCOMMODATE ANY POTENTIAL CONFLICTS.**
- 2. ALL BOLLARDS AND POLE MOUNTED LIGHTS SHALL BE PLACED AS FOLLOWS:**
  - a. FACE OF BOLLARD SHALL BE PLACED INSIDE OF THE CURBLINE IN DROP OFF AREA. FACE OF BOLLARD SHALL BE PLACED 1.5 FROM EDGE OF SIDEWALKS. ON CENTER SPACING SHALL BE 8 FEET.**
  - b. POLE MOUNTED PARKING AREA LIGHTS SHALL BE INSTALLED AS APPLICABLE AS FOLLOWS:**
    - 1. IN THE CENTER OF ISLANDS ;**
    - 2. AS INDICATED ON THE PLAN;**
    - 3. A MINIMUM OF 3.5' FROM THE BACK OF THE CURB TO THE FACE OF THE POLE;**
    - 4. FLUSH (FOOTING) WITH EDGE OF SIDEWALKS**
- 3. IN THE EVENT THAT THERE ARE DISCREPANCIES BETWEEN THE QUANTITIES SHOWN IN THE LIGHTING SCHEDULE AND THE PLAN, THE LIGHTING PLAN SHALL GOVERN.**
- 4. THE HOSPITAL SHALL BE OPEN 24 HOURS PER DAY, 7 DAYS A WEEK. ALL EXTERIOR LIGHTS WILL REMAIN ON, HOWEVER, ALL DOUBLE FIXTURE LIGHTS SHALL BE DIMMED BY 50% BETWEEN THE HOURS OF MIDNIGHT AND 5 AM.**
- 5. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT SHOP DRAWINGS OF ALL LIGHT FIXTURES AND POLES FOR REVIEW AND APPROVAL BY THE APPROPRIATE ENTITIES.**
- 6. THE APPLICANT WILL ENSURE THAT THE POLE/FIXTURE FINISH AND COLOR AND THE LIGHT SOURCE COLOR RENDITION OF ALL PROPOSED LIGHT FIXTURES AND POLES SHALL MATCH THE EXISTING POLES AND FIXTURES USED THROUGHOUT THE PENN MEDICINE CAMPUS. FINAL DETAILS AND COLORS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY PLAINSBORO TOWNSHIP.**

## LEGEND·

 EXISTING LIGHT FIXTURE AND POLE TO REMAIN

**B**  PROPOSED BOLLARD

**B** = STANDARD BOLLARD - NON ILLUMINATED  
**BI** = STANDARD BOLLARD - ILLUMINATED  
**IB** = SECURITY (IMPACT) BOLLARD - NON ILLUMINATED  
**IBI** = SECURITY (IMPACT) BOLLARD - ILLUMINATED

 REUSE/RELOCATED LIGHT FIXTURE AND 25' POLE  
(FIXTURES A THROUGH F) DOUBLE MOUNTED LIGHT

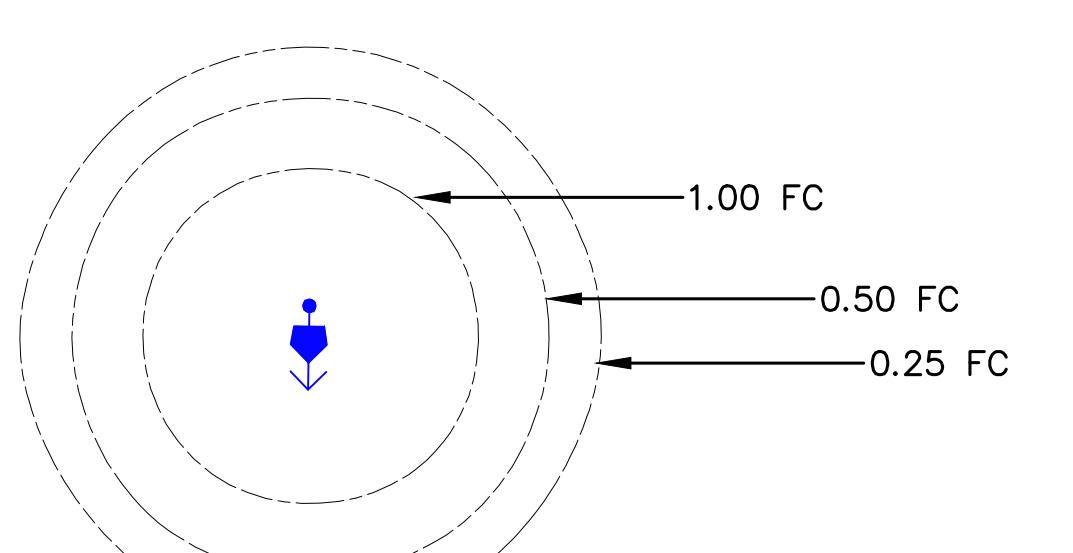
 REUSE/RELOCATE LIGHT FIXTURE AND 25' POLE  
(FIXTURES G THROUGH J) SINGLE MOUNTED LIGHT

 REUSE/RELOCATE LIGHT FIXTURE AND 14' POLE  
(FIXTURES K THROUGH U) SINGLE MOUNTED LIGHT

 NEW FIXTURE AND 25' POLE (FIXTURE V) DOUBLE  
MOUNTED LIGHT

# TYPICAL PHOTOMETRIC CONTOUR DETAIL

NOT TO SCALE



# PENN MEDICINE PRINCETON HEALTH CCIC

1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO: 5267.003  
Block 1701 Lot 3.01  
Township of Plainsboro  
Middlesex County, New Jersey 08536

# PROPOSED LIGHTING PLAN

# C213



## LIGHT COLUMN BOLLARD

PRODUCT DATA				
LAMP	DESCRIPTION	LUMINARE LUMENS*	BUD. RATING	LED STARTING TEMPERATURE °C
3000K LED	10W custom LED light engine	800	80-L03-01	-50
4000K LED	10W custom LED light engine	1006	80-L03-01	-30
RGBW LED	79W custom LED light engine	varies	varies	-30

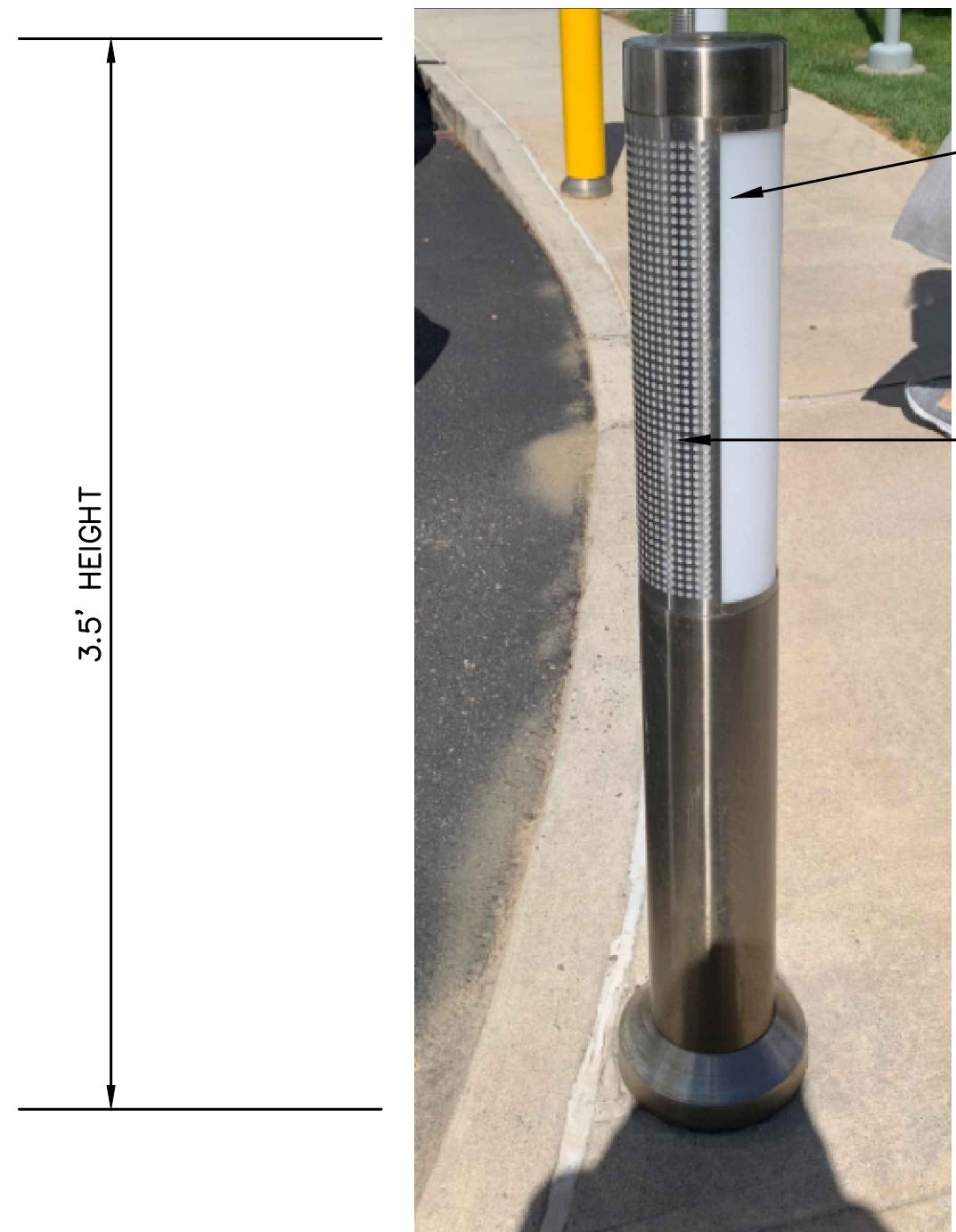
\*Luminare lumens represents the absolute photometry for the luminaire, and indicates the lumens out of the entire fixture.

NOTE: Polar candle and isofotocadre plots can be found on the Light Column Bollard product page on our website.

## ILLUMINATED BOLLARDS

## LAMP DESCRIPTIONS

LAMP	DESCRIPTION	LUMINARE LUMENS*	BUD. RATING	LED STARTING TEMPERATURE °C
3000K LED	10W custom LED light engine	800	80-L03-01	-50
4000K LED	10W custom LED light engine	1006	80-L03-01	-30
RGBW LED	79W custom LED light engine	varies	varies	-30



3.5' HEIGHT

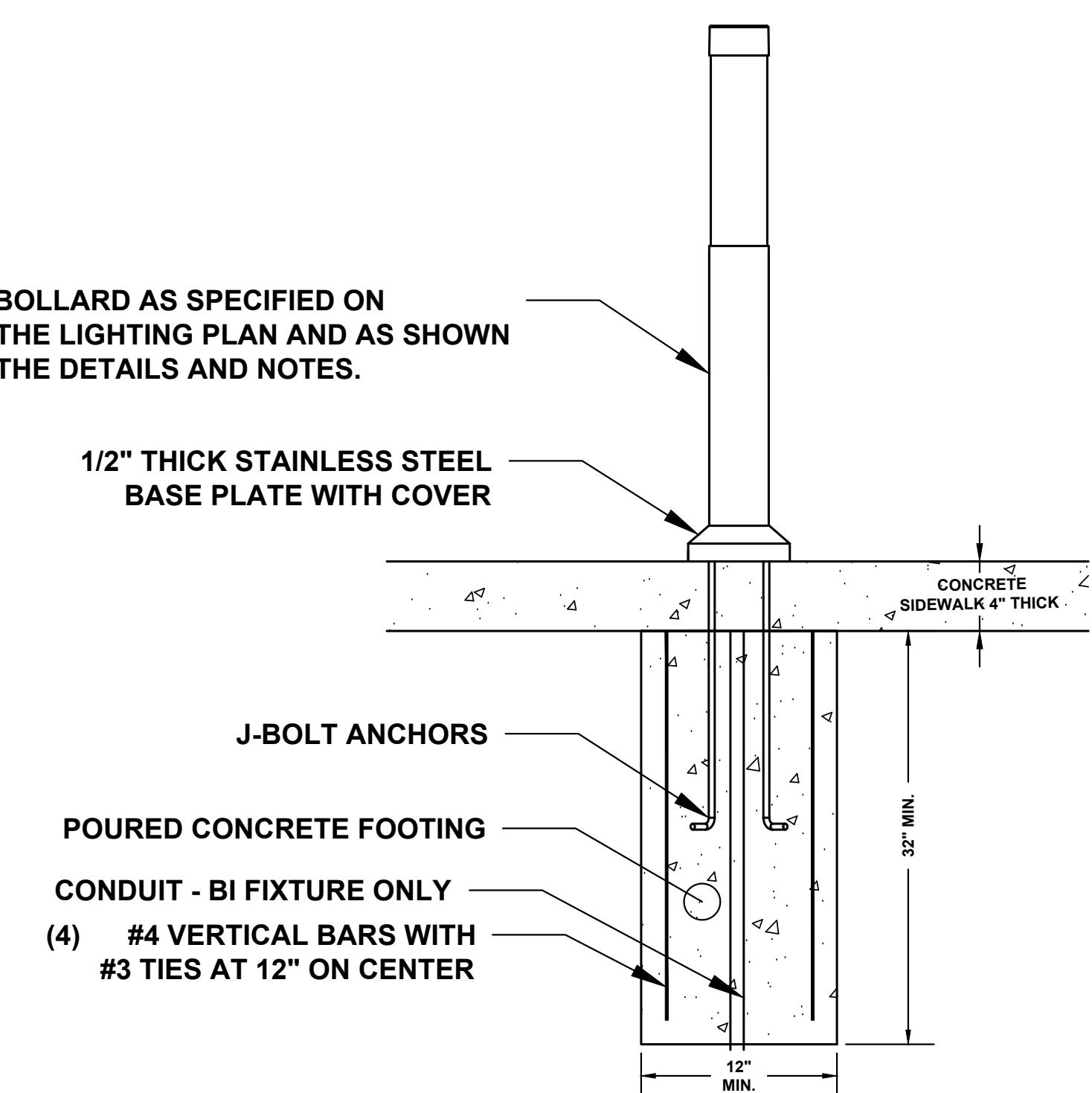
6" DIAMETER BOLLARD IN FINISH AND TEXTURE  
TO MATCH EXISTING CAMPUS BOLLARDSPROVIDE SECTOR SHIELD WHERE BOLLARD FACES THE  
ROAD

## NOTES:

1. BOLLARD SHALL BE MODEL "LIGHT COLUMN" ILLUMINATED BOLLARD WITH LED LIGHT SOURCE BY FORMS AND SURFACES OR APPROVED EQUAL.
2. THE PORTION OF THE BOLLARD FACING THE ROAD OR GRASS AREA SHALL HAVE THE "SECTOR SHIELD" OPTION, THE PORTION FACING THE BUILDING OR SIDEWALK SHALL NOT HAVE A SHIELD AS SHOWN IN THE PHOTO ABOVE.
3. THE FINISH OF THE BOLLARD HOUSING AND COLOR RENDITION OF LIGHT SOURCE SHALL MATCH THE EXISTING CAMPUS BOLLARDS, CONTRACTOR TO SUBMIT SHOP DRAWINGS.
4. AT DROP OFF AREAS, BOLLARDS SHALL BE PLACED 8' ON CENTER AND BASE PLATES SHALL BE FLUSH TO THE CURB JOINT. ALL OTHER SIDEWALK BOLLARDS SHALL BE PLACED 0.5 FT FROM THE EDGE OF THE SIDEWALK TO THE FACE OF THE BOLLARD.

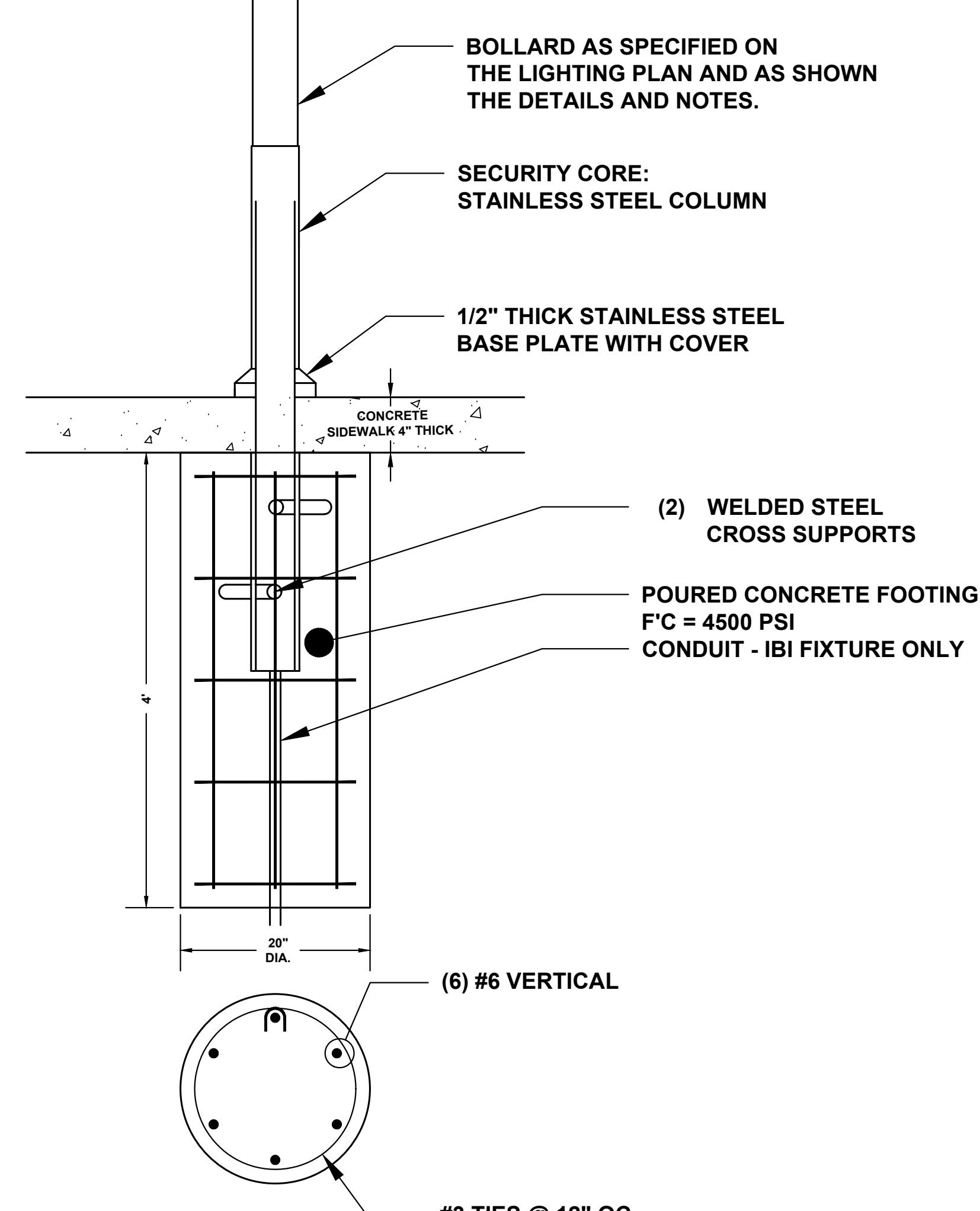
## LIGHTED BOLLARD DETAIL

NOT TO SCALE



BOLLARD AS SPECIFIED ON  
THE LIGHTING PLAN AND AS SHOWN  
THE DETAILS AND NOTES.

NOT TO SCALE

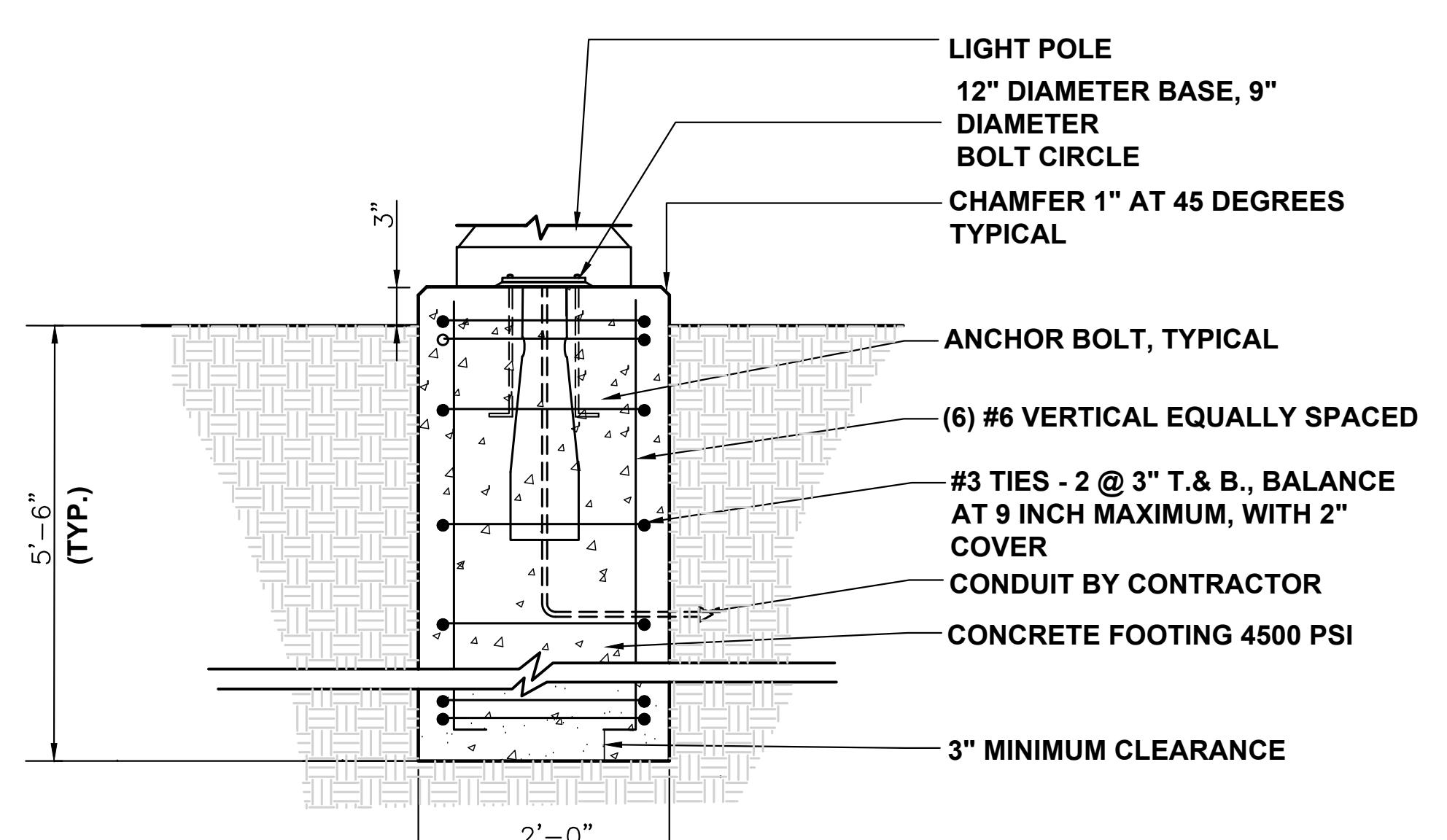
BOLLARD FOOTING DETAIL -  
SECURITY (BOLLARD IB AND IBI)

NOT TO SCALE

NOTE: THE CONTRACTOR IS RESPONSIBLE TO CONFIRM AND COORDINATE THE ANCHOR BOLT PATTERN, SIZE, AND NUMBER PER THE BOLLARD MANUFACTURER'S SPECIFICATIONS.

BOLLARD FOOTING DETAIL -  
STANDARD (BOLLARD B AND BI)

NOT TO SCALE



## TYPICAL 14' HIGH POLE FOOTING DETAIL

NOT TO SCALE

ARCHITECTURAL AREA LIGHTING  
Mitre Medium - M22

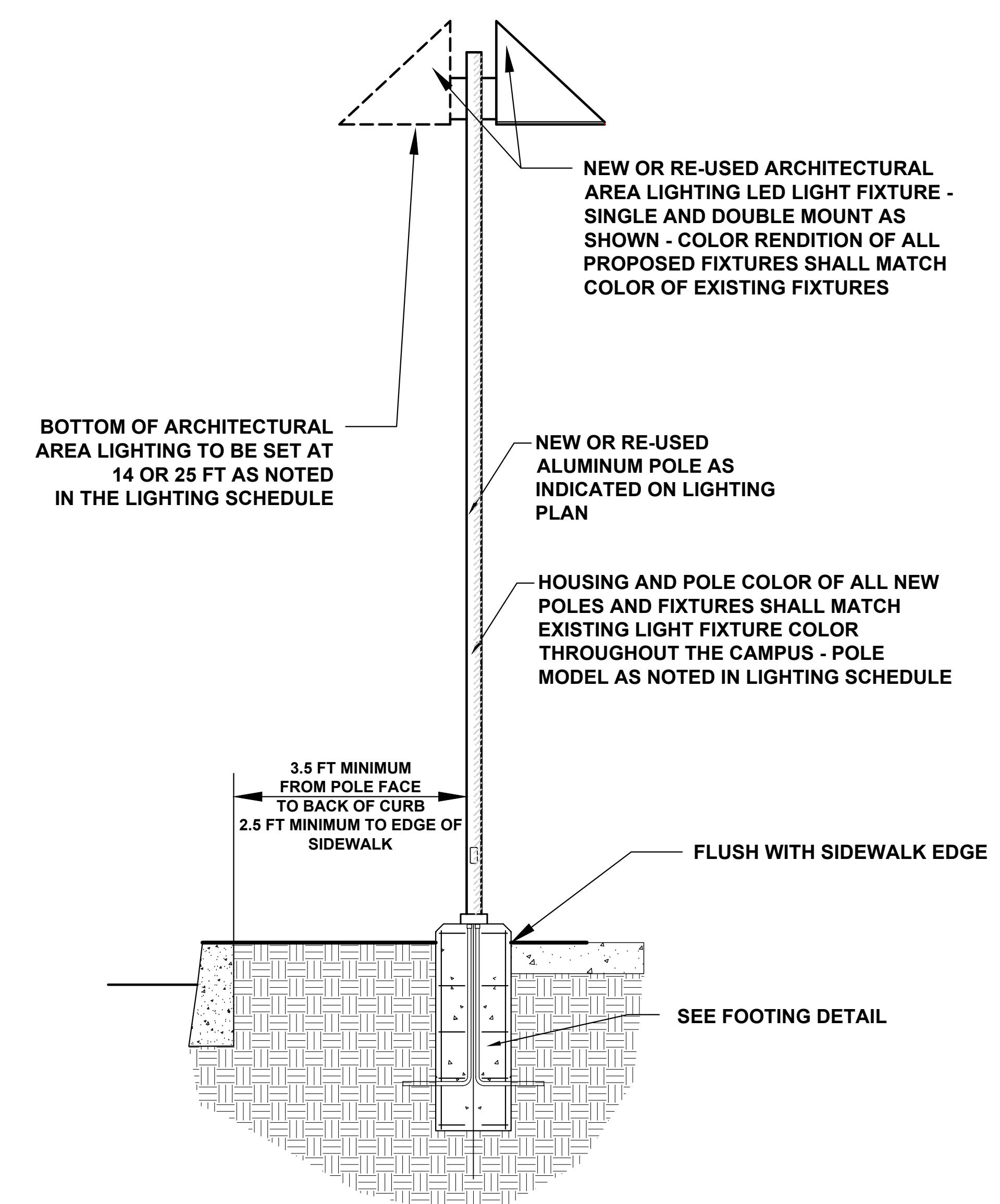
The classic geometric form of the Mitre complements architectural expressions of precision, structure and line.

COLOR AND  
TEXTURE TO  
MATCH  
EXISTING  
CAMPUS  
FIXTURES

Specifications		
UV Output	3000K Amber	Color Offering
Lumen Range	1,398 ± 0.05%	
Dimming Protocol	0.10% / 10% Dusk to Dawn	
CCT Offering	3000K, 5000K, 2000K Amber	
CRI Offering	70	
Mounting Options	Wall	
Material Housing	Aluminum	Optics & Distributions
Weight Range	3.2 - 7.2	Type II, Type III, Type IV, Type V Square, Taper, Taper Wedge
Certifications	ETL, CSA C22.2 No. 250.0-08	
Efficacy Range	49.1 - 135.3	TAA-Buy American 32.225-111.00
Ratings	40 to 40	
Operating Temp		

## PROPOSED LIGHT FIXTURE DETAIL

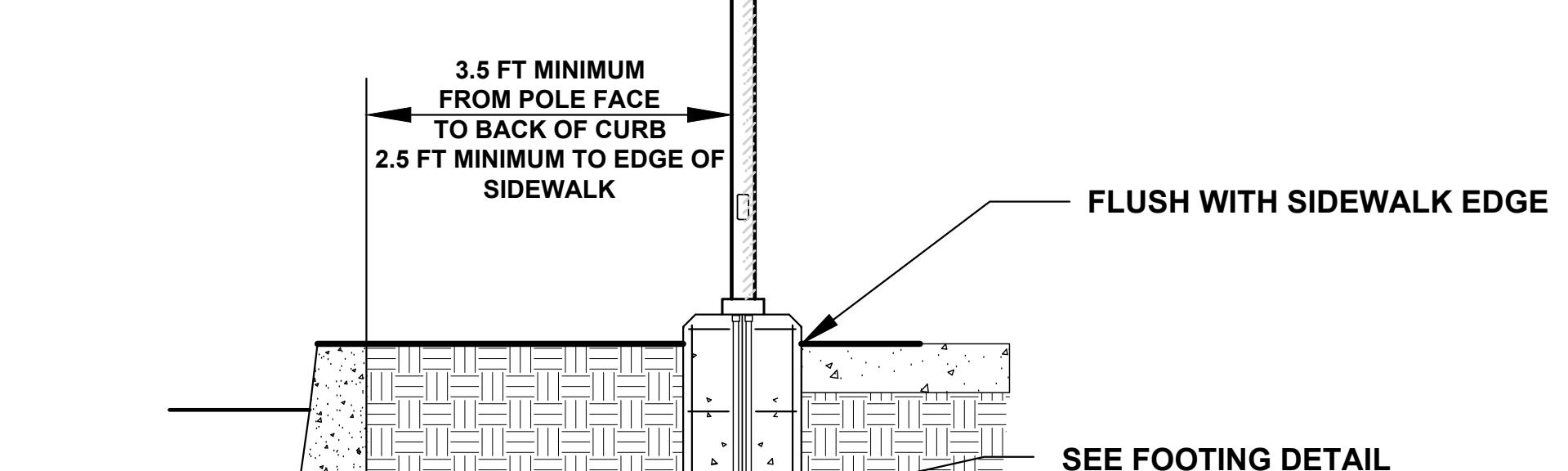
NOT TO SCALE



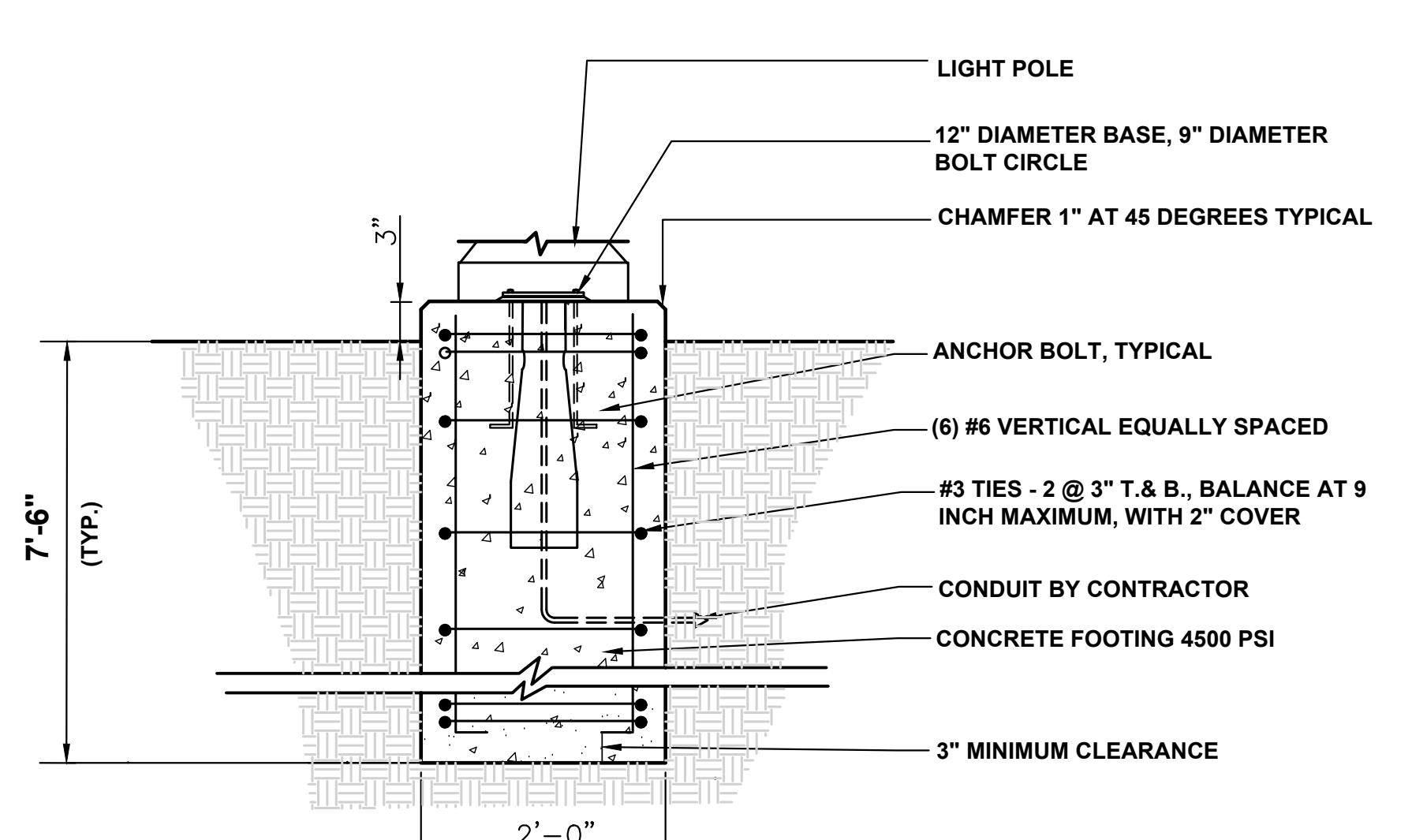
BOTTOM OF ARCHITECTURAL  
AREA LIGHTING TO BE SET AT  
14 OR 25 FT AS NOTED  
IN THE LIGHTING SCHEDULE

NEW OR RE-USED  
ALUMINUM POLE AS  
INDICATED ON LIGHTING  
PLAN

HOUSING AND POLE COLOR OF ALL NEW  
POLES AND FIXTURES SHALL MATCH  
EXISTING LIGHT FIXTURE COLOR  
THROUGHOUT THE CAMPUS - POLE  
MODEL AS NOTED IN LIGHTING SCHEDULE

PARKING LOT AND SIDEWALK  
LIGHT FIXTURE AND POLE DETAIL

NOT TO SCALE



## TYPICAL 25' HIGH POLE FOOTING DETAIL

NOT TO SCALE



ANDREW L. FRENCH, P.E.  
PROFESSIONAL ENGINEER, N.J. LIC. No. 42894

10/18/2024 REVISED PER DRC COMMENTS  
NO. DATE DESCRIPTION

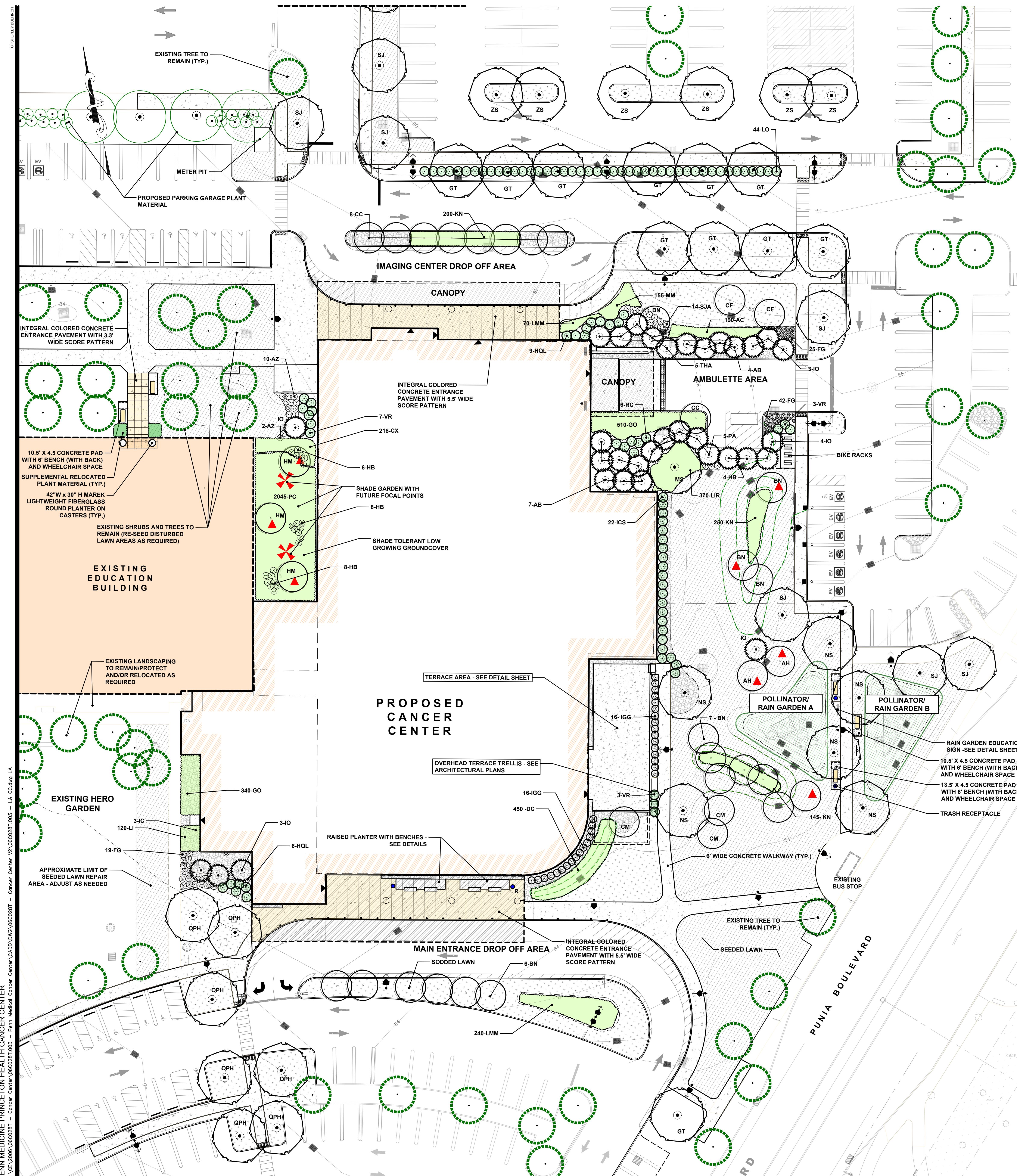
PENN MEDICINE  
PRINCETON  
HEALTH CCIC

1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO. 5262-000  
BLDG. 1700, Lot 1-01  
Township of Plainsboro  
Middlesex County, New Jersey 08536

LIGHTING PLAN NOTES  
AND DETAILS

C214

07/31/2024  
08/02/2024  
PACKAGE 0  
PACKAGE 1



SAMPLE PLANT LIST					
DECIDUOUS SHADE AND ORNAMENTAL TREES			MATURE SIZE		REMARKS
SYM	QTY	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	
D N* AH	2	OSTRY VIRGINIANA	HOPHORNBEAM	2.5" CALIPER	20'-35' HEIGHT, 25'-35' SPREAD FAIR COLOR, SMOOTH TRUNK, SMOOTH LEAVES
NP* BN	16	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	2.5" CALIPER	B & B, YELLOW FALL COLOR, MULTI TRUNK ONLY
NP* MS	1	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	8'-10' HEIGHT	40'-50' HEIGHT, 30'-40' SPREAD B & B, SPECIMEN TREE
N* CC	9	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY REBUD	8' HEIGHT	20'-30' HEIGHT AND SPREAD B & B, MULTITRUNK, PINK FLOWERS, APRIL
N CF	2	CORNUS FLORIDA WHITE	WHITE FLOWERING DOGWOOD	8' HEIGHT	20'-30' HEIGHT AND SPREAD B & B, MULTITRUNK, WHITE FLOWERS, APRIL
CM	3	LAGERSTROEMIA INDICA 'CATAWA'	CATAWBA CRAPE MYRTLE	6'-7' HEIGHT	10'-12' HEIGHT AND SPREAD B & B, SMALL MULTITRUNK TREE, PURPLE FLOWERS, SUMMER FOLIAGE
D N# GT	11	GLEDITIA TRIACANTHOS INERMIS	THORNLESS HONEYLOCUST	2.5" CALIPER	50'-70' HEIGHT, 25'-35' SPREAD B & B, MULTITRUNK, SMOOTH TRUNK
D N# HM	3	HAMAMELIS VIRGINIANA 'ARNOLD'S PROMISE'	ARNOLD'S PROMISE WITCHHAZEL	8' HEIGHT	15'-20' HEIGHT AND SPREAD B & B, BRIGHT FALL COLOR, WINTER FOLIAGE
N* NS	6	NYSSA SYLVATICA	BLACK GUM	2.5" CALIPER	30'-40' HEIGHT, 20'-30' SPREAD B & B, MULTITRUNK TREE, SINGLE STEM, VIBRANT FALL COLOR
D N# QPH	7	QUERCUS PHELLOS	WILLOW OAK	2.5" CALIPER	40'-50' HEIGHT AND SPREAD B & B, MULTITRUNK TREE, SINGLE STEM, VIBRANT FALL COLOR
D SJ	7	STYPHNOBOLIUM JAPONICUM	CHINESE SCHOLAR TREE	2.5" CALIPER	40'-50' HEIGHT AND SPREAD B & B, MULTITRUNK TREE, SINGLE STEM, VIBRANT FALL COLOR
D* ZS	6	ZELKOVA SERRATA	JAPANESE ZELKOVA	2.5" CALIPER	50'-70' HEIGHT, 25'-35' SPREAD B & B, MULTITRUNK, GREY BARK, SINGLE TRUNK, SPECIMEN

EVERGREEN TREES					
SYM	QTY	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	REMARKS
D N AB	11	ABIES CONCOLOR	WHITE FIR	8' HEIGHT	50'-70' HEIGHT, 25'-35' SPREAD B & B, WHITE GRAY FOLIAGE
D N# IO	12	ILEX OPACA FEMALE	BERRIED AMERICAN HOLLY	8' HEIGHT	50'-70' HEIGHT, 25'-35' SPREAD B & B, RED BERRIES IN THE WINTER
D # PA	5	PICEA ABIES	NORWAY SPRUCE	8' HEIGHT	50'-70' HEIGHT, 25'-35' SPREAD B & B
D # THA	5	THUJA PLICATA 'GREEN GIANT'	GREEN GIANT ARBORVITAE	8' HEIGHT	30'-40' HEIGHT, 10'-12' SPREAD B & B

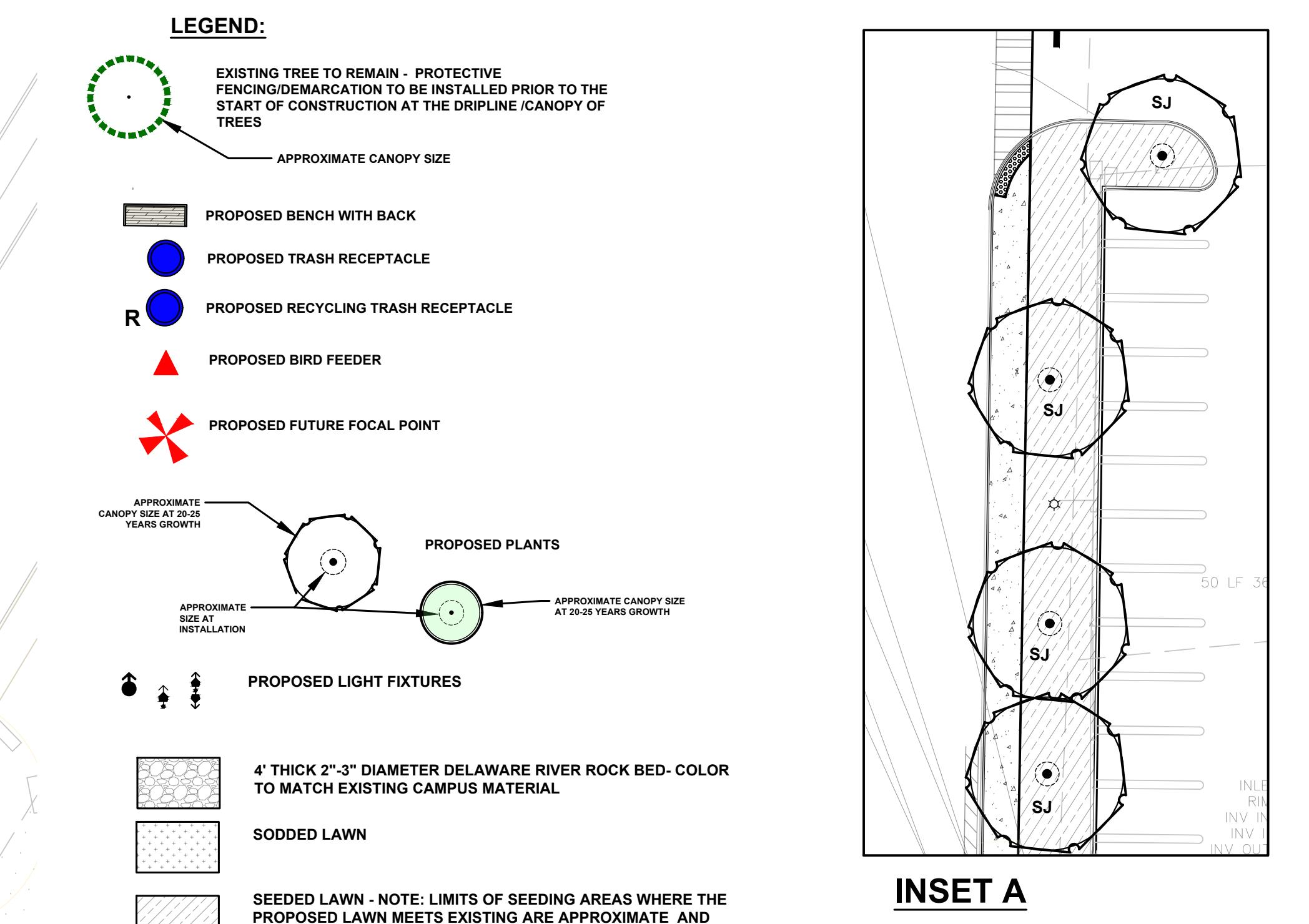
  

SHRUBS					
SYM	QTY	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	REMARKS
N AZ	12	AZALEA 'DELAWARE WHITE'	DELAWARE VALLEY WHITE AZALEA	2' HEIGHT	3'-4' HEIGHT AND SPREAD B & B, WHT FLWRS, MAY, SUMMER FOLIAGE
N HGL	15	HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	3' HEIGHT	6'-8' HEIGHT AND SPREAD B & B, WHITE FLOWERS, OAK LEAF SHAPED FOLIAGE
D # ICS	22	ILEX 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY	3' HEIGHT	15'-25' HEIGHT, 8'-12' SPREAD B & B, EVERGREEN SHRUB, MATCHED SPECIMENS ONLY
NP# IGG	32	ILEX GLABRA GEM BOX	GEMBOX INKBERRY HOLLY	2' HEIGHT	3' HEIGHT AND SPREAD B & B, EVERGREEN SHRUB, MATCHED SPECIMENS ONLY
# LO	44	LIGUSTRUM OVALIFOLIUM	CALIFORNIA PRIVET	4' HEIGHT	6'-8' HEIGHT AND SPREAD B & B, EVERGREEN SHRUB, MATCHED SPECIMENS ONLY
N RC	6	RHOHONDEDRON CATABAMENSIS 'DISCONSALT'	BIG-LEAF CATABAM	3' HEIGHT	6'-10' HEIGHT AND SPREAD B & B, LILAC FLOWERS, MAY, SUMMER FOLIAGE
D # SJA	14	SPIREA JAPANICA 'GOLDMOUND'	GOLDMOUND JAPANESE SPIREA	1' HEIGHT	2'-3' HEIGHT AND SPREAD B & B, LILAC FLOWERS, MAY, ORANGE-RED FALL COLORS
# VR	13	VIBURNUM RHYTHMOPHYLLUM	LEATHERLEAF VIBURNUM	4' HEIGHT	10'-15' HEIGHT AND SPREAD B & B, LILAC FLOWERS, MAY, SUMMER FOLIAGE

GROUNDCOVERS, PERENNIALS AND ORNAMENTAL GRASSES					
SYM	QTY	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	REMARKS
N # AC	190	ASARUM CANADENSE	WILD GINGER	6" HEIGHT	6"-12" HEIGHT, 12"-18" SPREAD 1 GAL. CONT, PERENNIAL, SPRING BLOOM, * ON CENTER
# CX	250	CAREX MARSH 'ICE DANCE'	ICE DANCE SEDGE	2 GALLON CONTAINERS	9"-12" HEIGHT, 12"-24" SPREAD 1' ON CENTER
D # DC	450	DELOSPERMA 'WHEELS OF WONDER' - FIRE WONDER	FIRE WONDER WHEELS OF WONDER ICE PLANT	2" HEIGHT	4"-6" HEIGHT, 12"-18" SPREAD 1 GAL. CONT, DROUGHT TOLERANT, RED FLOWERS, SUMMER TO FALL, INSTALL AT 1' ON CENTER
D # FG	86	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE	6" HEIGHT	12" HEIGHT AND SPREAD 1 GAL. CONT, DROUGHT TOLERANT, LITTLE LEAF, DWARF ORNAMENTAL GRASS, INSTALL AT 2' ON CENTER
# GO	850	GALIUM ODORATUM	SWEET WOODRUFF	2 GALLON CONTAINERS	6"-12" HEIGHT, 9"-18" SPREAD PERENNIAL, WHITE FLOWERS, SPRING BLOOM, * ON CENTER
N# HB	26	HELIOBORUS ORIENTALIS 'ROYAL HERITAGE STRAIN'	ROYAL HERITAGE STRAIN HELLEBORE	6" HEIGHT	18"-24" HEIGHT AND SPREAD 2 GAL. CONT, PERENNIAL, BROWN FLOWERS, EARLY SPRING
D # KR	595	GERANIUM MACULATUM	CRANESBILL GERANIUM	6" HEIGHT	12" HEIGHT AND SPREAD 1 GAL. CONT, PERENNIAL, PURPLE FLOWERS, SUMMER FOLIAGE, EARLY SPRING
D # LMM	310	LAVENDULA ANGUSTIFOLIA "MUNSTEAD"	MUNSTEAD ENGLISH LAVENDER	1 GALLON CONTAINERS	12"-18" HEIGHT AND SPREAD FRAGRANT, PURPLE FLOWERS, LATE SPRING TO EARLY SUMMER, PERENNIAL, INSECT REPELLENT, * ON CENTER
D N # LI	120	LIATRIS SPICATA 'KOBOLD'	KOBOLD BLAZING STAR LIATRIS	2 GALLON CONTAINERS	24"-30" HEIGHT, 12" SPREAD PERENNIAL, PURPLE FLOWERS, SUMMER FOLIAGE, INSECT REPELLENT, * ON CENTER
# LIR	370	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	6" HEIGHT	12" HEIGHT AND SPREAD 1 GALLON CONT, YELLOW FLOWERS, SUMMER FOLIAGE, INSECT REPELLENT, * ON CENTER
N# MM	155	CALTHA PALUSTRIS	MARSH MARIGOLD	6" HEIGHT	1'-2" HEIGHT AND SPREAD EVERGREEN GROUNDCOVER, DRY SHADE TOLERANT, INSTALL AT Y ON CENTER
D # PC	2045	PACHYSANDRA TERMINALIS GREEN CARPET	GREEN CARPET PACHYSANDRA	1 GALLON CONTAINERS	12" HEIGHT, 12"-18" SPREAD

KEY:  
 N = NATIVE PLANT OF NORTH AMERICA  
 & = SALT SPRAY TOLERANT  
 D = DROUGHT TOLERANT AS PER THE FOLLOWING SOURCES:  
 1. NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION (WWW.NYCGOPARKS.ORG)  
 2. LANDSCAPING FOR WATER CONSERVATION BY RUTGERS COOPERATIVE EXTENSION (PUBLICATION E80)  
 3. RUTGERS MASTER GARDENERS OF MERCER COUNTY, NEW JERSEY (RGMHC.ORG)  
 4. HEAT AND DROUGHT TOLERANT PLANT LIST - PENN STATE EXTENSION (EXTENSION.PSU.EDU)



#### LANDSCAPE PLAN GENERAL NOTES:

- EXISTING TREES AND SHRUBS TO REMAIN ALONG THE PERIPHERY OF THE CONSTRUCTION SHALL BE SELECTIVELY PRUNED AND THINNED AS REQUIRED BY A LICENSED LANDSCAPE PROFESSIONAL IN ORDER TO REMOVE ALL DISEASED AND DEAD LIMBS. BED LINES SHALL BE CREATED AS SHOWN AND MULCHED WITH 4" THICK WOOD MULCH.
- DO NOT INSTALL PROPOSED PLANT MATERIAL DIRECTLY ON TOP OF ANY PROPOSED OR EXISTING UNDERGROUND UTILITIES. FIELD ADJUST MATERIAL AS NEEDED FOR BOTH ABOVE AND BELOW GRADE FEATURES AS DIRECTED BY THE PROJECT PROFESSIONAL TO ACCOMMODATE ANY POTENTIAL CONFLICTS.
- A DRIP LINE IRRIGATION SYSTEM WILL BE PROVIDED WITHIN THE PROPOSED PROJECT AREA.
- SEE LANDSCAPE DETAIL SHEET FOR ADDITIONAL PLANTING NOTES AND PLANT LISTS

DRAWING INFORMATION  
PROJECT INFORMATION  
KEY PLAN  
ISSUES  
10/10/2024 REVISED PER DRC COMMENTS  
NO. DATE DESCRIPTION

1 Plainsboro Road  
Plainsboro, NJ 08536  
Building 170, Lot 1-2-1  
Township of Plainsboro  
Middlesex County, New Jersey 08536

LANDSCAPING PLAN

C215

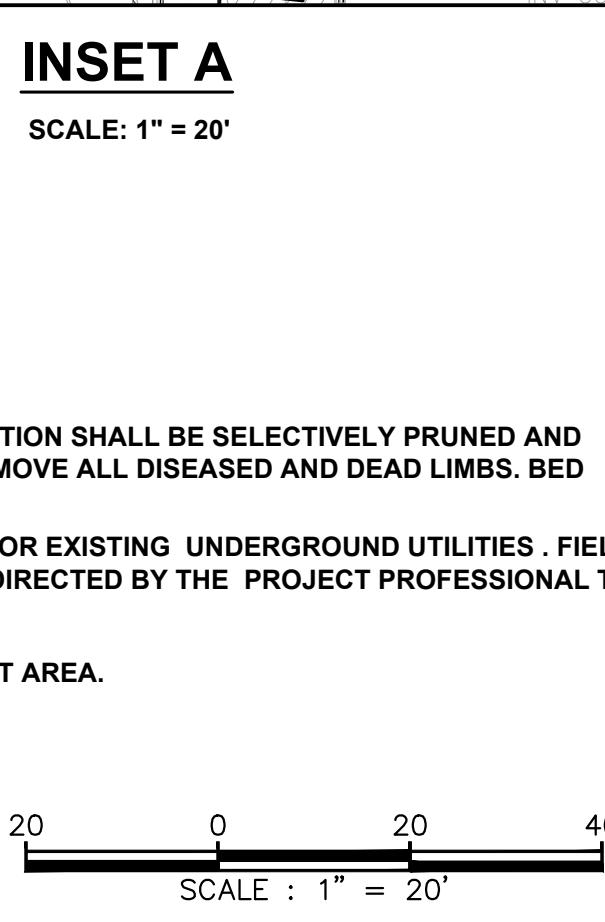
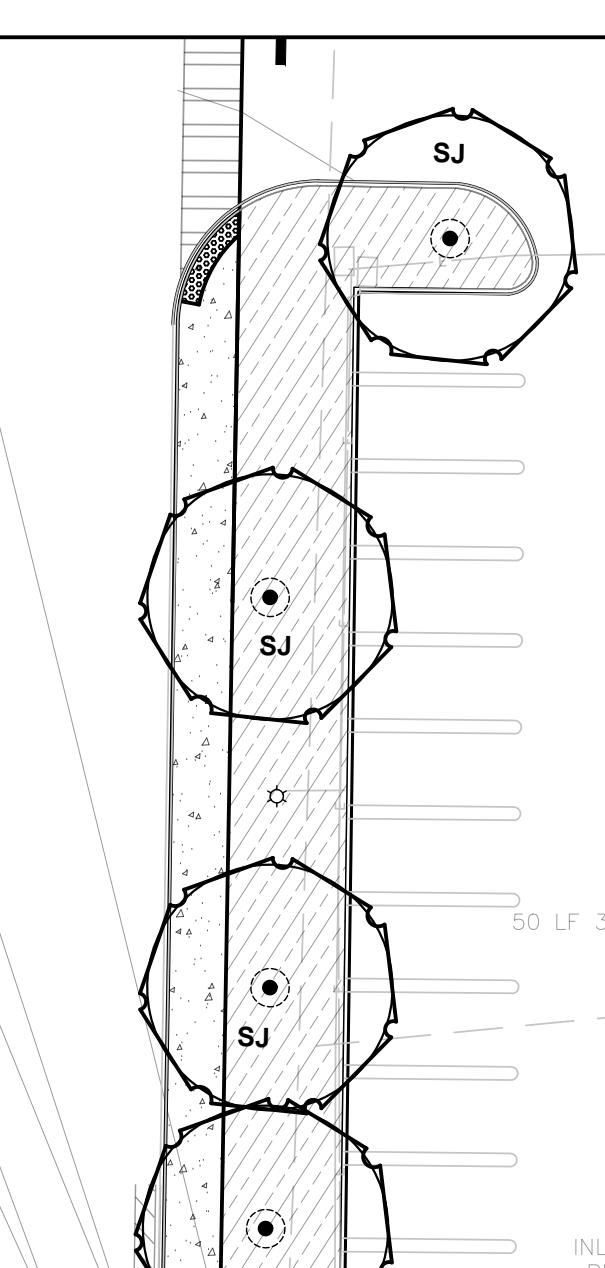
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08/02/2024  
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PACKAGE 1

Princeton Forward  
Penn Medicine  
Princeton Health

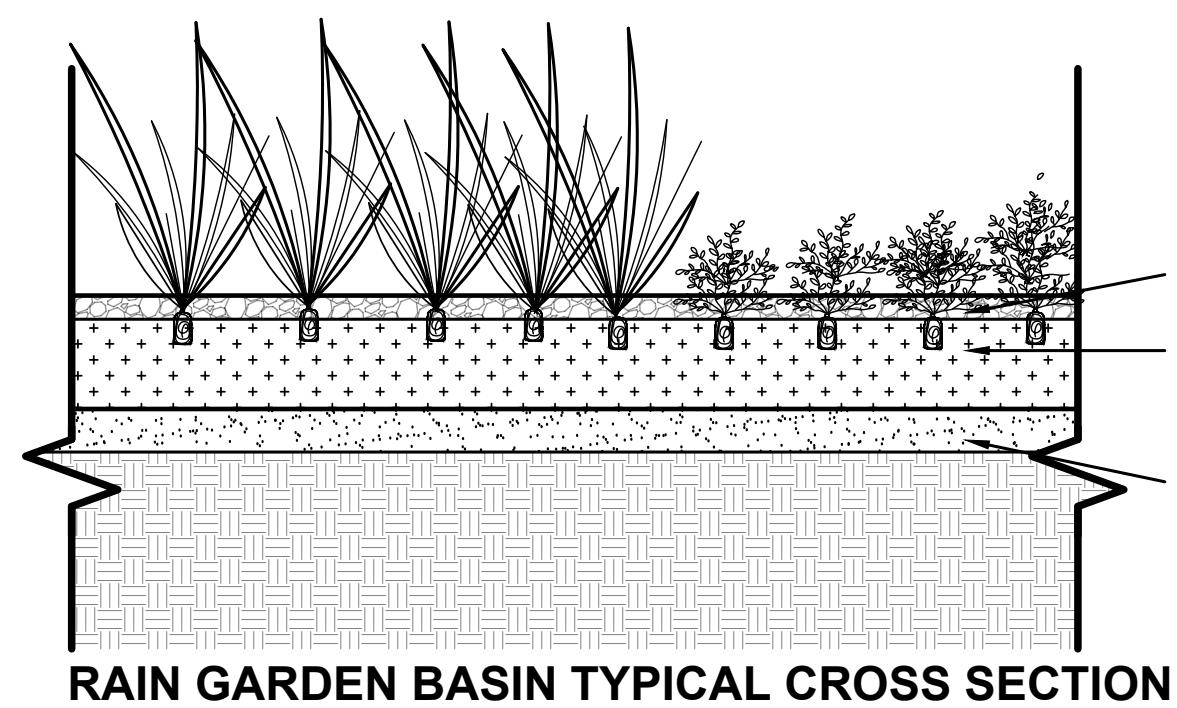
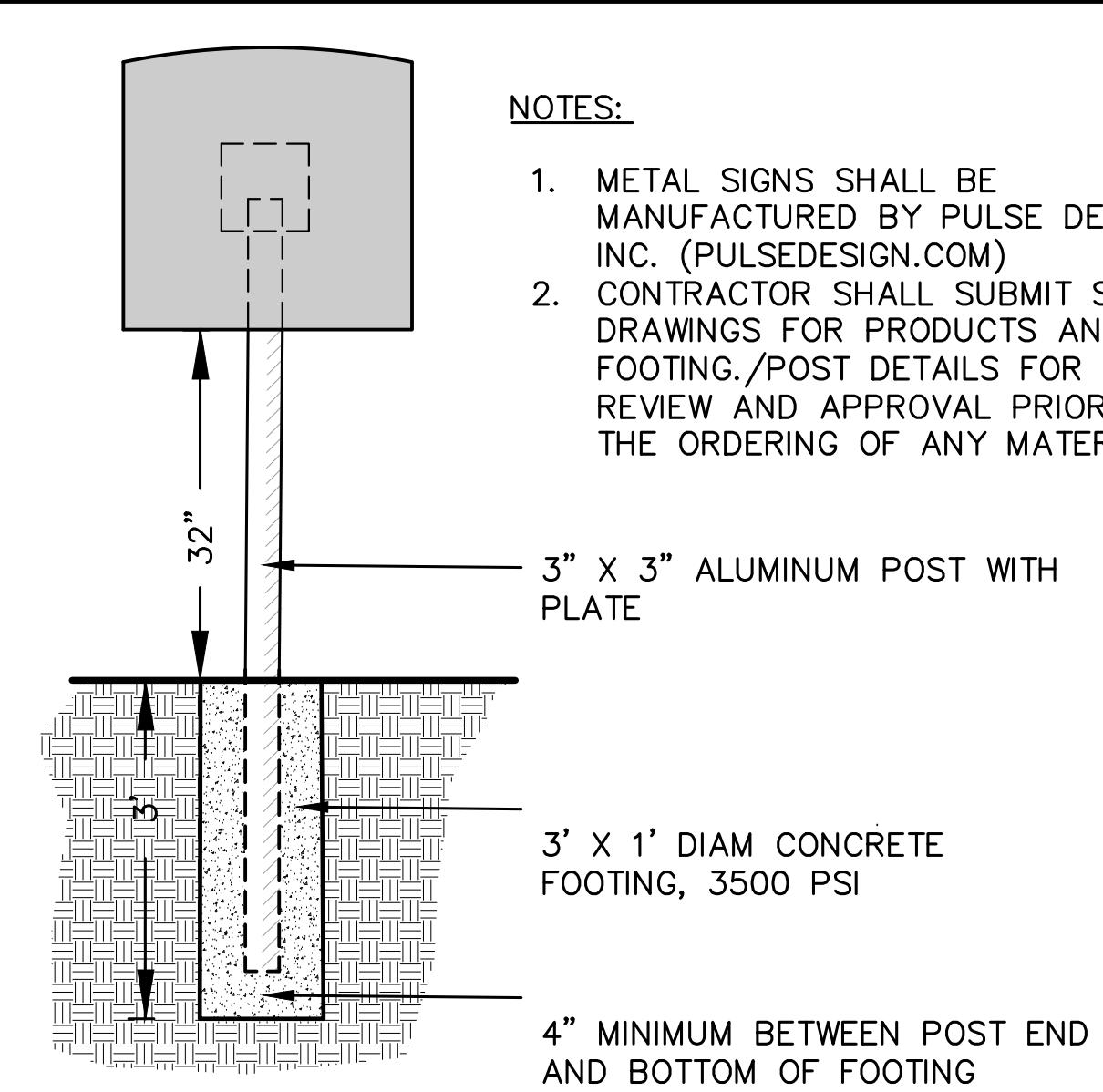
1 Plainsboro Road  
Plainsboro, NJ 08536  
99 Chauncy Street 4th Floor  
Boston, MA 02111  
T: 617.423.1700 | F: 800.934.9691  
shepleybulfinch.com

FPA  
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Corporate Office:  
1800 Rte 34, Suite 101  
Wall, New Jersey 07719  
732.312.9800  
FPAEngineers.com  
New Jersey ▲ New York ▲ Pennsylvania ▲ Georgia

SARAH REBAR BISCHA, L.L.A., P.P.  
LICENSED LANDSCAPE ARCHITECT, N.J. LIC. NO. AS000639

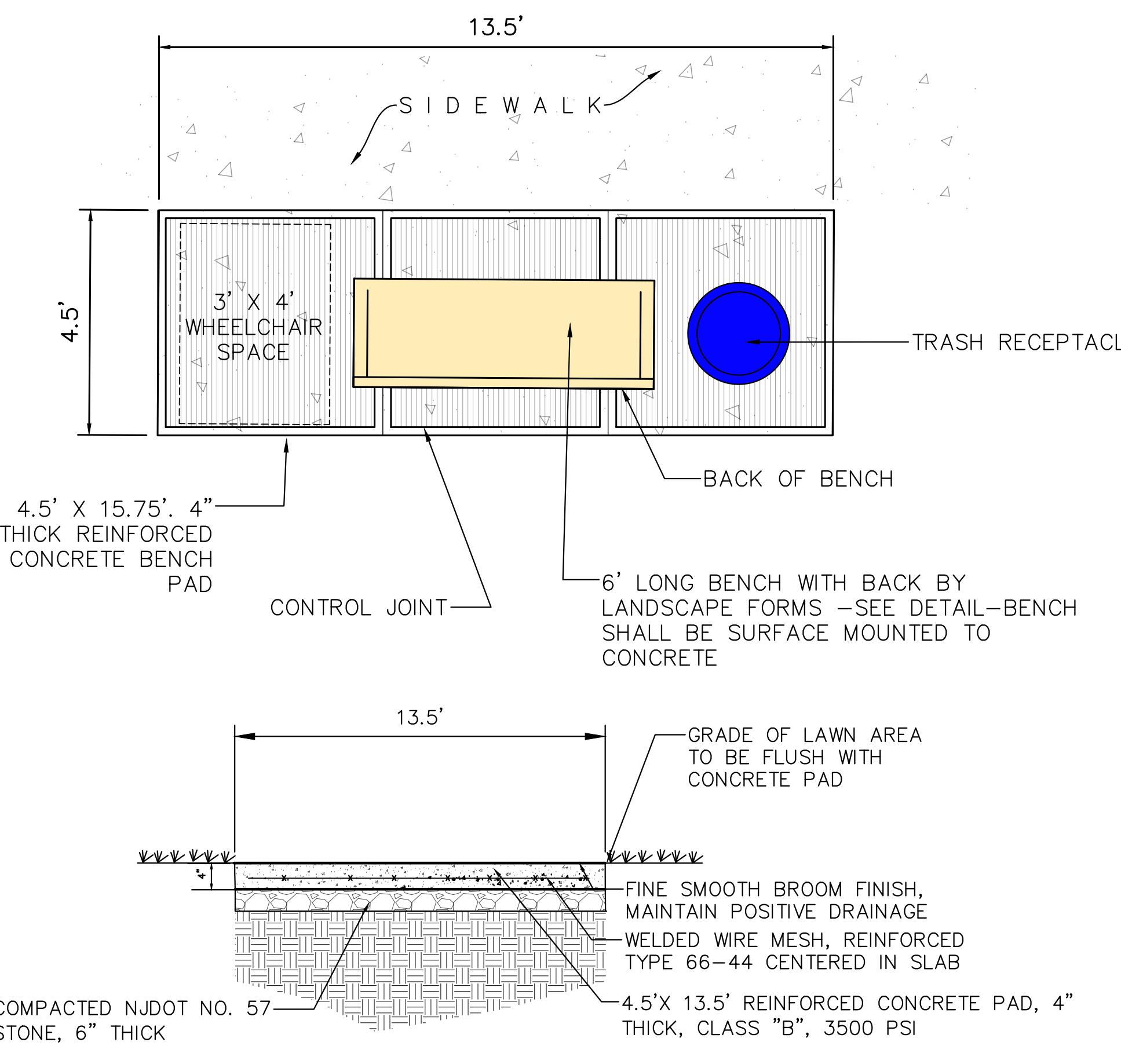


SCALE: 1" = 20'  
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PROJECT INFORMATION  
KEY PLAN  
ISSUES  
10/10/2024 REVISED PER DRC COMMENTS  
NO. DATE DESCRIPTION



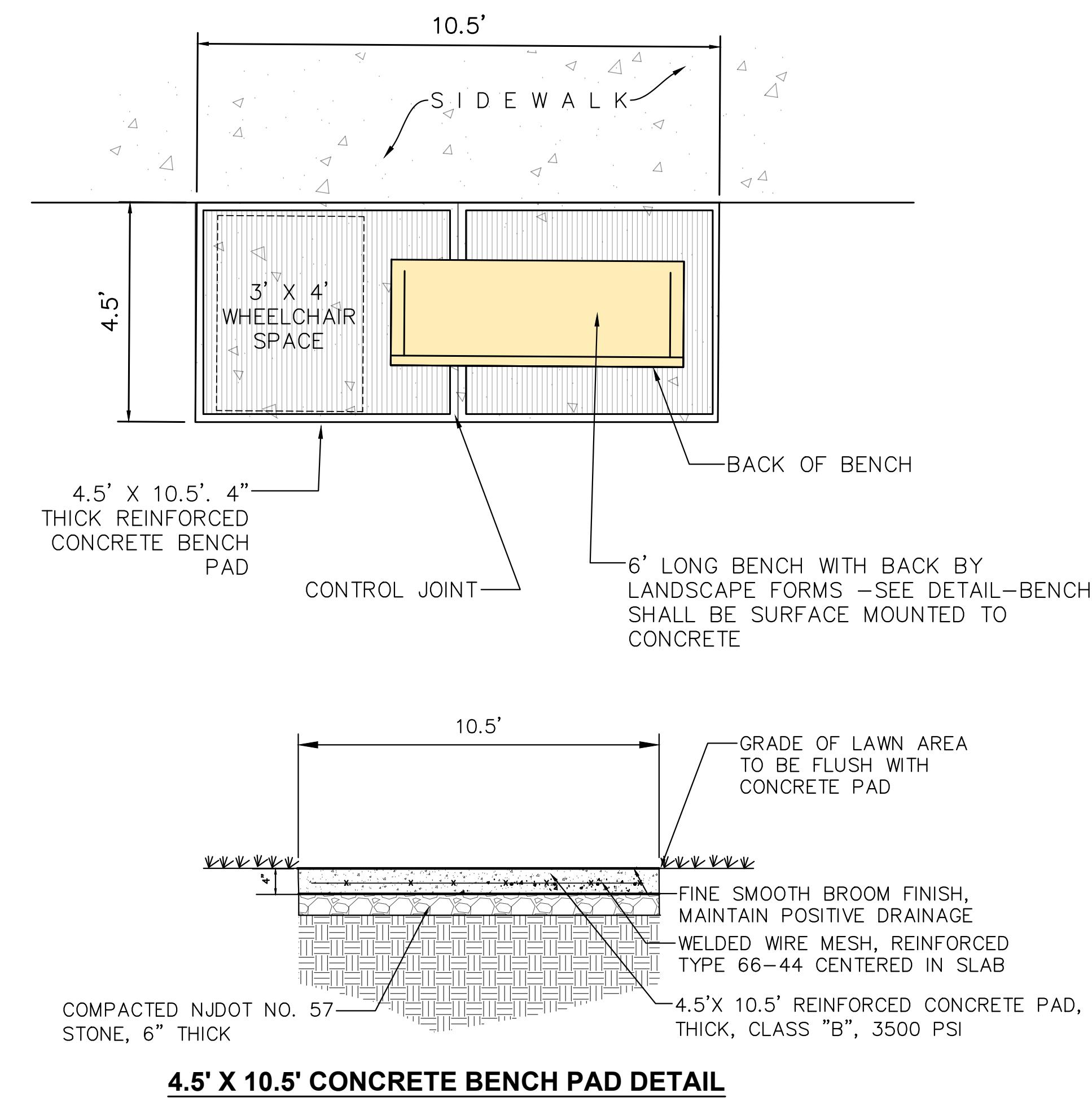
### RAIN AND POLLINATOR GARDEN SIGNS

NOT TO SCALE



### 4.5' X 13.5' CONCRETE BENCH PAD DETAIL

NOT TO SCALE



### TEMPORARY IRRIGATION NOTES:

1. THE CONTRACTOR SHALL PROVIDE A TEMPORARY AUTOMATIC (TIMER WITH DAY, TIME AND DURATION) IRRIGATION SYSTEM TO ENSURE THE RAIN GARDEN PLANT ESTABLISHMENT. ALL NEW PLANT MATERIAL SHALL BE WATERED DAILY FOR A PERIOD OF 3 MONTHS FOLLOWING INSTALLATION UNLESS THERE IS SIGNIFICANT RAINFALL.
2. WATERING SHALL BE DONE IN THE EARLY MORNING. CONTRACTOR WILL CONTROL LENGTH OF WATERING TIME VIA TIMERS AS DIRECTED BY THE HOSPITAL IN ORDER TO ENSURE THE WATERING DOES NOT INTERFERE WITH DAILY OPERATIONS OR VISITORS/CLIENTS.
3. DAILY WATERING PERIOD MAY BE EXTENDED IF EXTREME DRY CONDITIONS EXIST AT THE DIRECTION OF THE PROJECT LANDSCAPE ARCHITECT.
4. PLANT MATERIAL SHALL BE WATERED THROUGH DRIP, SOAKER HOSE OR MICRO SPRAY IRRIGATION METHODS ONLY.
5. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT SHOP DRAWINGS OF THE PROPOSED EQUIPMENT AND A SKETCH SHOWING THE PROPOSED LAYOUT OF THE SYSTEM.
6. THE CONTRACTOR MUST ENSURE THE LAYOUT OF THE PROPOSED TEMPORARY IRRIGATION LINES DO NOT CREATE TRIPPING HAZARDS.

### POLLINATOR GARDEN SIGN B

25" X 25" METAL INTERPRETIVE POLLINATOR GARDEN SIGN MODEL #092-2525-28A-34921



### RAIN GARDEN SIGN A

25" X 25" METAL INTERPRETIVE RAIN GARDEN SIGN MODEL #092-2020-01B-10216



### POLLINATOR GARDEN SIGN B

25" X 25" METAL INTERPRETIVE POLLINATOR GARDEN SIGN MODEL #092-2525-28A-34921

### POLLINATOR/RAIN GARDEN PLANT LIST

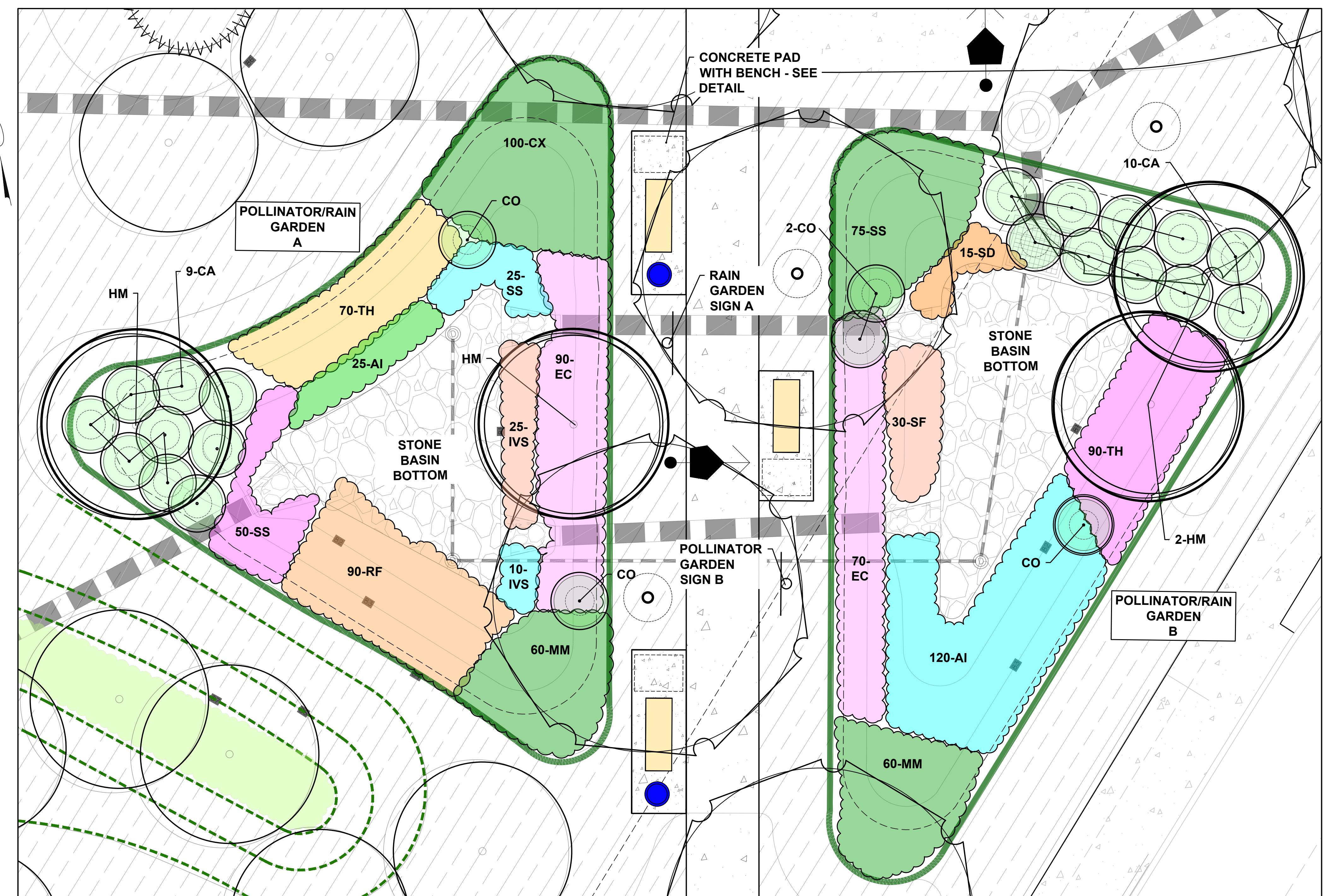
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MATURE SIZE	BLOOM TIME/FLOWER COLOR	REMARKS
N CO	5	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	3' HEIGHT	5'-12' HEIGHT, 4'-8' SPREAD	JUNE/WHITE	B & B, DECIDUOUS SHRUB
P N# CA	19	CLETHRA ALNIFOLIA	SWEET PEPPERMINT	3' HEIGHT	3'-8' HEIGHT, 4'-6' SPREAD	JULY-AUGUST/WHITE	B & B, DECIDUOUS SHRUB
N# HM	4	HAMMAMELIS VIRGINIANA 'ARNOLD'S PROMISE'	ARNOLD'S PROMISE WITCHHAZEL	8' HEIGHT	15'-20' HEIGHT AND SPREAD	OCTOBER-DECEMBER/YELLOW	B & B, MULTI TRUNK, DECIDUOUS ORNAMENTAL TREE
<b>GROUNDCOVERS, PERENNIALS AND ORNAMENTAL GRASSES</b>							
P N# AI	145	ASCLEPIAS INCARNATA	SWAMP MILKWEED	6"-8" HEIGHT	3'-4' HEIGHT, 2'-3' SPREAD	JUNE-OCTOBER/PINK	1 GAL CONT. PERENNIAL, INSTALL AT 18" ON CENTER
P N# CX	100	CAREX BUCHANANII FOX RED	FOX RED CURLY SEDGE	6" HEIGHT	2'-2' HEIGHT AND SPREAD	RED BRONZE FOLIAGE	1 GAL CONT. PERENNIAL, INSTALL AT 18" ON CENTER
P N# EC	160	ECHINACEA PURPUREA	PURPLE CONEFLOWER	6" HEIGHT	2'-2' HEIGHT, 1.5'-2' SPREAD	JUNE-AUGUST/PURPLE	1 GAL CONT. PERENNIAL, INSTALL AT 18" ON CENTER
N# IVS	35	IRIS VIRGINICA SHREVEI	BLUE FLAG IRIS	6"-8" HEIGHT	1.5'-2' HEIGHT AND SPREAD	JUNE/BLUE	1 GAL CONT. PERENNIAL, INSTALL AT 18" ON CENTER
N# MM	120	CALTHA PALUSTRIS	MARSH MARIGOLD	6" HEIGHT	1'-2' HEIGHT AND SPREAD	APRIL-JUNE/YELLOW	1 GAL CONT. PERENNIAL, INSTALL AT 18" ON CENTER
N# RF	90	RUBUS FRUTICOSA	BLACK EYED SUSAN	6" HEIGHT	2'-3' HEIGHT, 2'-4' SPREAD	JULY-OCTOBER/YELLOW-ORANGE	1 GAL CONT. PERENNIAL, INSTALL AT 18" ON CENTER
P N# SD	15	SPOROBOLUS HETEROLEPIS	PRairie Dropseed	6" HEIGHT	2'-3' HEIGHT AND SPREAD	AUGUST-OCTOBER/GREEN-TAN	1 GAL CONTAINERS, ORNAMENTAL GRASS, INSTALL AT 18" ON CENTER
N# SS	150	LEUCANTHEMUM X SUPERBUM	SHASTA DAISY	6" HEIGHT	2'-3' HEIGHT, 1.5'-2' SPREAD	JULY-SEPTEMBER/WHITE	1 GALLON CONTAINERS, PERENNIAL, INSTALL AT 18" ON CENTER
P N# SF	30	SOLIDAGO FLEXICAULIS	ZIGZAG GOLDENROD	6" HEIGHT	1'-3' HEIGHT AND SPREAD	JULY-SEPTEMBER/YELLOW	1 GAL CONT. PERENNIAL, TURNING GOLDEN IN FLOWERS, INSTALL AT 18" ON CENTER
S# TH	160	CHELONE OBLIQUA	TURTLEHEAD	6"-8" HEIGHT	2'-3' HEIGHT, 1'-2' SPREAD	JULY-SEPTEMBER/PURPLE	1 GAL CONT. PERENNIAL, TURNING PURPLE IN FLOWERS, INSTALL AT 18" ON CENTER

### KEY:

N = NATIVE PLANT OF NORTH AMERICA  
 & = SALT SPRAY TOLERANT  
 # = SELDOM OR RARELY DAMAGED BY DEER AS PER RUTGERS AG AGENCY ([HTTP://NJAES.RUTGERS.EDU](http://NJAES.RUTGERS.EDU))  
 P = POLLINATOR PLANT AS PER RUTGERS GARDENS WEBSITE ([RUTGERSGARDENS.RUTGERS.EDU](http://RUTGERSGARDENS.RUTGERS.EDU))

### RAIN GARDEN NOTES:

1. GARDEN DESIGN AS PER THE RECOMMENDATIONS OF THE NATIVE PLANT SOCIETY OF NEW JERSEY RAIN GARDEN MANUAL.
2. GARDEN AREA SHALL RECEIVE A SOIL MIX CONSISTING THE PROFILE NOTED IN THE RAIN GARDEN SECTION DETAIL.
3. ANY PLANT SUBSTITUTIONS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT AND OWNER.
4. REFER TO LANDSCAPE NOTES AND DETAILS FOR ADDITIONAL PLANTING REQUIREMENTS AND INFORMATION.
5. ALL GARDEN PLANTING SHALL BE INSTALLED BY HAND. CAUTION SHALL BE TAKEN WHEREVER PLANTS ARE TO BE INSTALLED NEAR UNDERGROUND UTILITY LINES.



### POLLINATOR/RAIN GARDEN PLANTING DETAIL

SCALE: 1" = 5'

NOTE: THIS DETAIL SHALL BE USED FOR THE PLANTING OF THE RAIN/POLLINATOR GARDEN AREAS ONLY. REFER TO THE OVERALL LANDSCAPE PLAN FOR OTHER SITE PLANTING AREAS.

SCALE : 1" = 5'

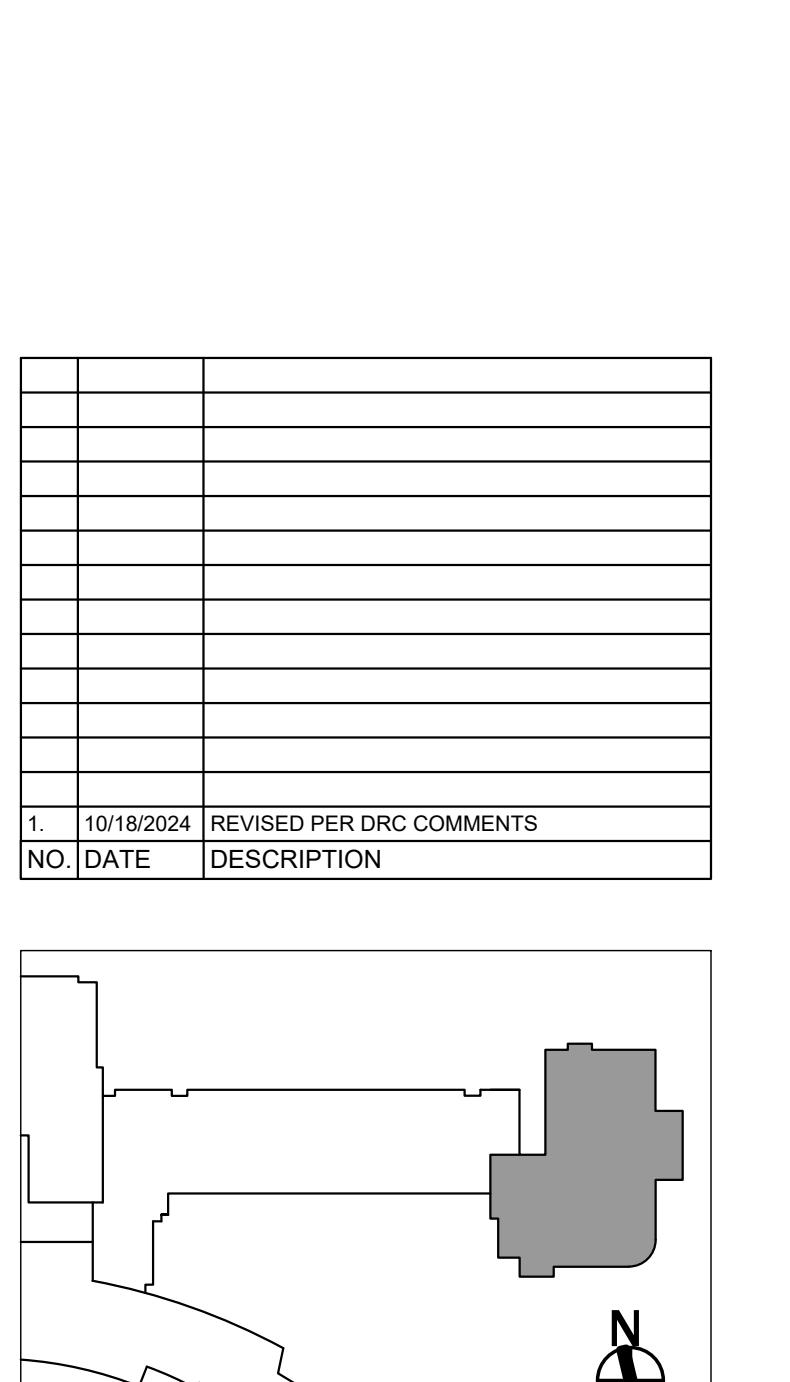
DRAWING INFORMATION

07/31/2024  
08/02/2024  
PACKAGE 0  
PACKAGE 1

1 Plainsboro Road  
Plainsboro, NJ 08536  
**SHEPLEY BULFINCH**

99 Chauncy Street 4th Floor  
Boston, MA 02111  
T: 617-423-1700 | F: 800-934-9691  
**FPA**  
FRENCH & PARRELLA  
ASSOCIATES  
New Jersey ▲ New York ▲ Pennsylvania ▲ Georgia

SARAH REBAR BISCHA, L.L.A., P.P.  
LICENSED LANDSCAPE ARCHITECT, N.J. LIC. No. AS000639



**PENN MEDICINE PRINCETON HEALTH CCIC**

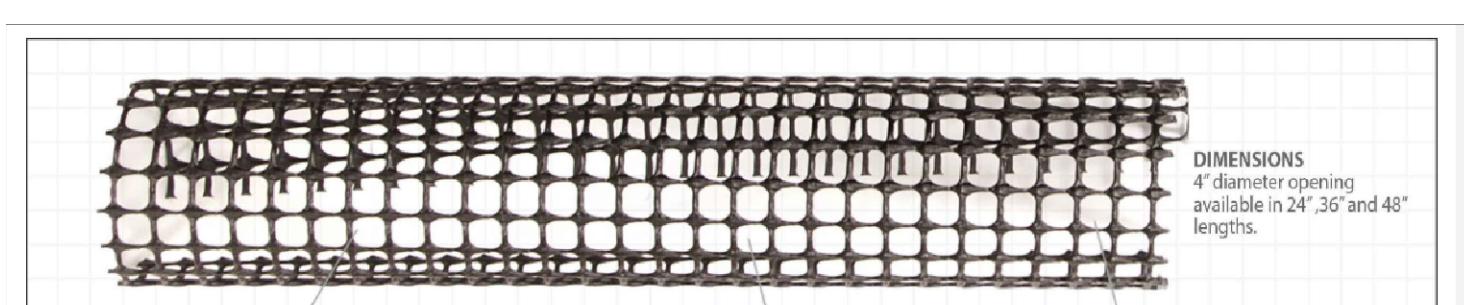
1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO. 5262-000  
BLDG. 170, Lvl 2-3  
Township of Plainsboro  
Middlesex County, New Jersey 08536

**LANDSCAPING NOTES AND DETAILS**

**C216**

**PLANTING NOTES**

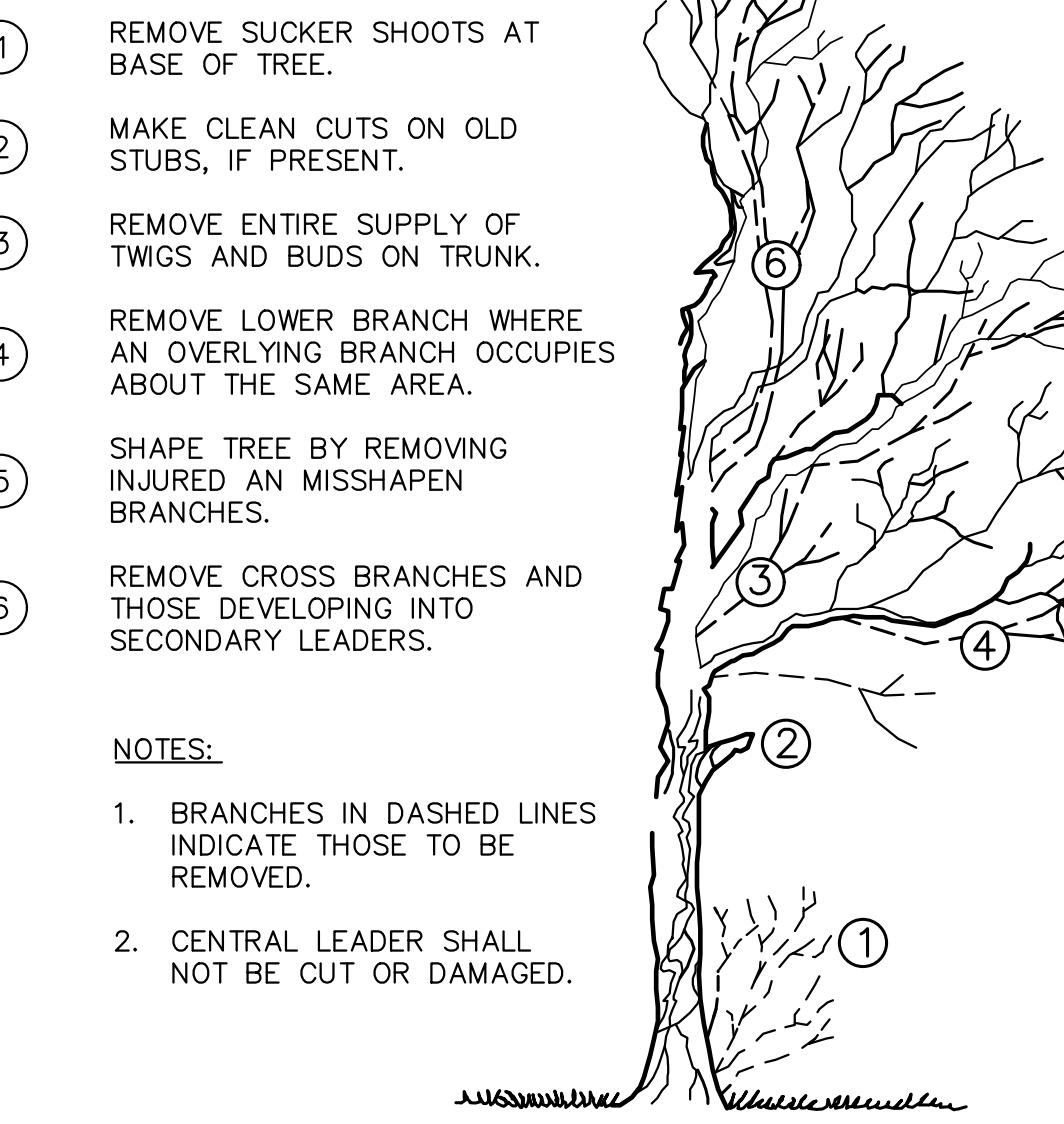
1. THE LANDSCAPE PLANS SHALL BE USED FOR LANDSCAPING PURPOSES ONLY. THE CONTRACTOR SHOULD EXAMINE ALL ENGINEERING DRAWINGS AND FIELD CONDITIONS FOR EXACT LOCATIONS OF UTILITIES, DRAINS, ETC., AND NOTIFY THE OWNER ABOUT ANY DISCREPANCIES BEFORE STARTING WORK.
2. ALL PLANTING SHALL BE IN CONFORMANCE WITH THE AMERICAN NURSERYMEN'S ASSOCIATION STANDARDS, CURRENT EDITION. ALL PLANT MATERIAL USED SHALL BE TRUE TO NAME AND SIZE IN CONFORMITY WITH THE CURRENT EDITION OF THE AMERICAN STANDARDS OF NURSERY STOCK AND SIZE. BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL-BLOODED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, SUN SCALD INJURIES, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL OTHER FORMS OF INFECTION. ALL PLANTS SHALL BE NURSERY GROWN. ALL PLANT MATERIAL SHALL BE TAGGED AT THE NURSERY SOURCE AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO PLANTING.
3. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOLS RELATED TO THE EXECUTION OF THIS CONTRACT.
4. EXCAVATION NEAR EXISTING UTILITIES TO BE CAREFULLY PERFORMED BY HAND.
5. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING GRADE AT THE NURSERY. ALL PLANT MATERIAL SHALL BE PLANTED SO THAT THE TOP OF THE ROOTBALL IS NO HIGHER OR LOWER THAN THE EXISTING/FINISHED GRADE DEPENDENT UPON SOIL CONDITIONS.
6. IN THE EVENT THAT PLANTING DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE LANDSCAPING PLAN SHALL GOVERN. THE USE AND PLANTING OF BARE ROOT MATERIAL SHALL BE PROHIBITED.
7. ANY SUBSTITUTIONS OF PLANT MATERIAL WITH REGARDS TO SIZE, SPECIES, VARIETY, ETC., SHALL BE SUBJECT TO APPROVAL BY PLAINSBORO TOWNSHIP.
8. PLANTS SHALL ONLY BE INSTALLED WHEN THE SOIL IS FROST FREE.
9. UNDER NO CIRCUMSTANCES SHOULD THE MAIN LEADER OF A DECIDUOUS OR EVERGREEN TREE BE TOPPED. DECIDUOUS TREES SHALL BE PRUNED BY REMOVAL OF 1/3 OF THE INTERIOR BRANCHING STRUCTURE WITHOUT ALTERING THE ORIGINAL BRANCHING FORM OF THE TREE.
10. ALL DISTURBED AREAS, NOT BEING PLANTED, SHALL BE TOPSOILED 4" THICK, FERTILIZED, SEEDED, AND MULCHED WITH APPROVED MULCH. TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE SOIL CHARACTERISTIC OF PRODUCTIVE SOIL IN THE VICINITY. IT SHALL BE FREE OF LUMPS OF CLAY, STONES, ROOTS, AND OTHER FOREIGN MATTER.
11. CUT AND LOOSEN SISAL HEMP CHOKING TIE AROUND TREE TRUNK. ALL PLASTIC MATERIAL SHALL NOT BE PERMITTED. ALL WIRE BASKETS AND PLASTIC LINERS OF CONTAINER GROWN TREES AND SHRUBS MUST BE COMPLETELY REMOVED. NO CONTAINER GROWN MATERIAL WILL BE ACCEPTED IF IT IS ROOT BOUND AND NOT ROOT PRUNED. THE USE OF NYLON TWINE ON ROOT BALLS IS PROHIBITED.
12. THE DEPTH OF PLANT PITS SHALL BE INCREASED BY 12" THROUGH THE ADDITION OF LOOSE AGGREGATE (3 1/4" TO 1 1/2" DIAMETER) WHEREVER POOR DRAINAGE OCCURS OR WHERE DIRECTED BY THE TOWNSHIP.
13. GUY WIRES SHALL BE LOCATED SO THAT THEY WILL NOT PULL CROTCH APART. GUY WIRES TO SECOND BRANCH (MINIMUM ONE-THIRD HEIGHT OF TREE). USE THREE GUYS PER TREE UNLESS OTHERWISE INDICATED. ALL TREE STAKES, GUY WIRES, TREE WRAPPING AND SAUCERS SHALL BE REMOVED AFTER ONE GROWING SEASON.
14. PLANTS PLANTED IN ROWS SHALL BE MATCHED SPECIMENS AND BE UNIFORM IN SIZE AND FORM.
15. IN THE EVENT THAT EXISTING VEGETATION IS REMOVED BEYOND THE CLEARING LIMITS SHOWN ON THE PLANS, ADDITIONAL PLANTING MUST BE PROVIDED AS APPROVED BY THE TOWNSHIP AND AT NO COST TO THE OWNER.
16. PLANTING BACKFILL MIXTURE SHALL CONSIST OF ONE PART TOPSOIL, ONE PART NATIVE SOIL AND ONE PART PEAT MOSS. NOTE THAT PLANTING MIXTURE MAY CHANGE BASED UPON SOIL CONDITIONS.
17. MULCH, 4" IN DEPTH, SHALL BE TREATED SHREDDED HARDWOOD BARK NOT EXCEEDING 2" IN GREATEST DIMENSION. MULCH SHALL BE INSTALLED WITH A MAXIMUM OF ONE (1) INCH WITHIN ONE (1) FOOT ON THE TREE'S ROOT FLARE. A NON-PLASTIC WEED RETARDANT BARRIER SHALL BE USED IN ALL NON GRASSED AREAS. MULCH SHALL BE FINE GRADED FOR A PLEASING APPEARANCE. THE USE OF MARBLE OR PINE BARK CHIPS IS PROHIBITED. MULCH VOLCANES ARE NOT PERMITTED.
18. ALL PLANT MATERIAL SHALL BE GIVEN A MINIMUM OF 5 GALLONS OF WATER AT THE TIME OF INSTALLATION AND SHALL BE WATERED AT INTERVALS DURING ESTABLISHMENT TO ENSURE ADAPTATION TO SITE. PRIOR TO THE INSTALLATION OF THE PLANT MATERIAL, THE CONTRACTOR SHALL FILL EACH PLANTING PIT WITH TOPSOIL, ALLOW IT TO DRY/DETERMINE SETTLEMENT, AND THEN RE-FILL THE PLANTING PIT. THE CONTRACTOR SHALL NOTIFY EITHER THE TOWNSHIP OR PROJECT LANDSCAPE ARCHITECT OF ANY PERCOLATION PROBLEMS PRIOR TO INSTALLATION.
19. PREFERRED PLANTING TIME PERIODS ARE FROM SEPTEMBER 1 TO NOVEMBER 30 OR MARCH 20 TO MAY 31. NO PLANTING SHALL BE EXECUTED DURING ABNORMALLY HOT WEATHER NOR WHEN THE GROUND IS FROZEN.
20. THE CONTRACTOR SHALL REMOVE ALL DAMAGED BRANCHES AND NURSERY TAGS AT THE TIME OF INSTALLATION.
21. ALL TURF SHALL RECEIVE FERTILIZER CONSISTING OF 10-6-4 (50% ORGANIC) COMPOSITION, APPLIED AT 3 LB. PER 100 SQ. FT. SLOW RELEASE FERTILIZER TABLETS OR PACKETS OF 20-10-5 COMPOSITION SHALL BE ADDED TO ALL PLANTING PITS AT THE FOLLOWING RATIOS: 1 PER SHRUB, 2 PER DECIDUOUS OR EVERGREEN TREES UP TO 2" IN CALIPER AND 3 FOR DECIDUOUS AND EVERGREEN TREES ABOVE 2" IN CALIPER.
22. EACH TREE THAT IS PLANTED MUST BE TAGGED WITH A DURABLE LABEL BEARING THE GENUS, SPECIES, VARIETY, PLANT PATENT NUMBER (IF APPLICABLE) AND CULTURAL REQUIREMENTS AND MUST BE INSPECTED PRIOR TO REMOVAL.
23. ALL GROUPED SHRUBS SHALL BE MULCHED TOGETHER TO FORM ONE CONTINUOUS PLANTING BED.
24. CONTRACTOR TO BE RESPONSIBLE FOR SEEDING AREAS BEING DISTURBED BY CONSTRUCTION. SEED MIXTURE TO BE IN ACCORDANCE WITH SOIL CONSERVATION DISTRICT'S STANDARDS.
25. ALL TREES FOUR (4) FEET OR GREATER IN HEIGHT SHALL BE STAKED.
26. ALL SHRUBS SHALL BE INSTALLED A MINIMUM OF THREE (3) FEET BEHIND THE CURB.
27. ANY PLANT RELOCATIONS SHALL BE SUBMITTED TO PLAINSBORO TOWNSHIP FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
28. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR PERIOD OF TWO YEARS FROM THE TIME OF PLANTING.



#### TREE TRUNK PROTECTION DETAIL

NOT TO SCALE

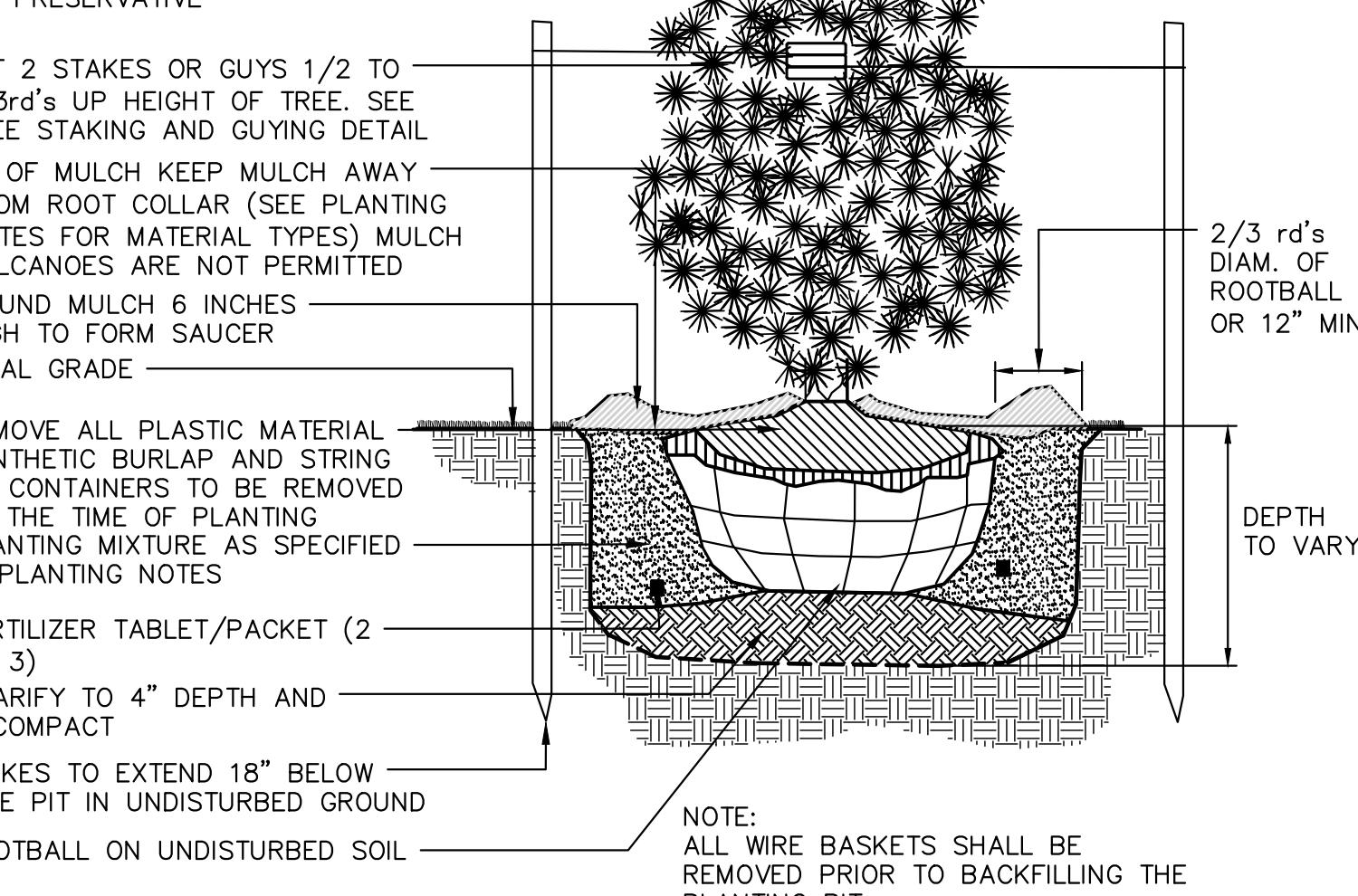
4' LONG, 4" DIAMETER TREE TRUNK PROTECTION MESH SHALL BE MANUFACTURED BY A.M. LEONARD (<https://www.amleo.com/leonard-rigid-plastic-mesh-tree-guards-4-inch-diameter/p/VP-BG/1>) OR APPROVED EQUAL.



#### TREE PRUNING DETAIL

NOT TO SCALE

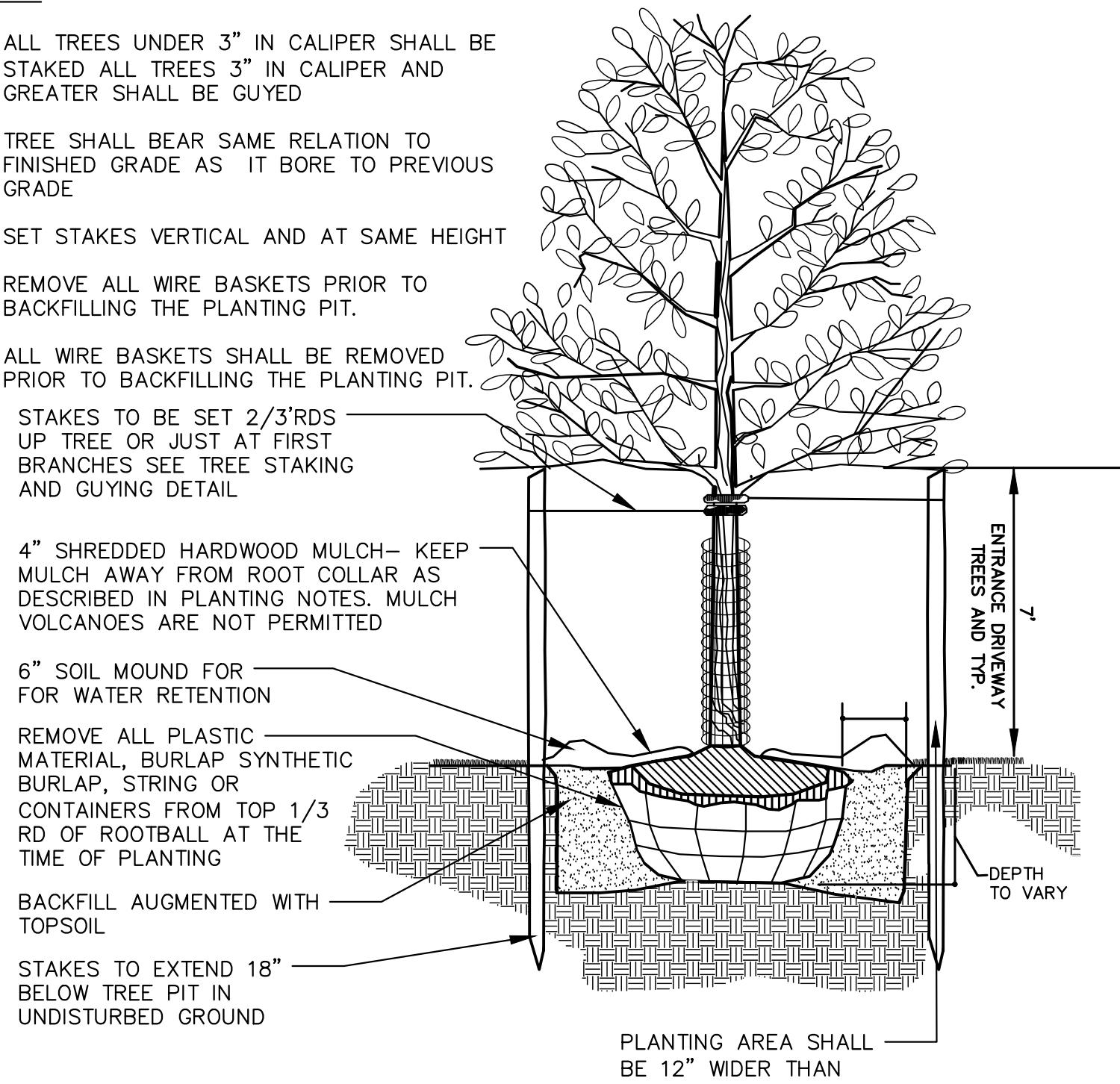
#### NOTES:



#### EVERGREEN TREE PLANTING DETAIL

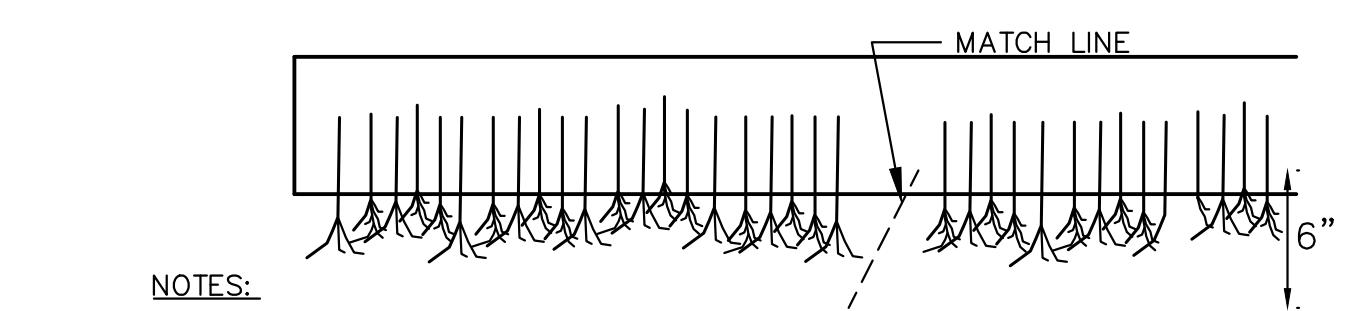
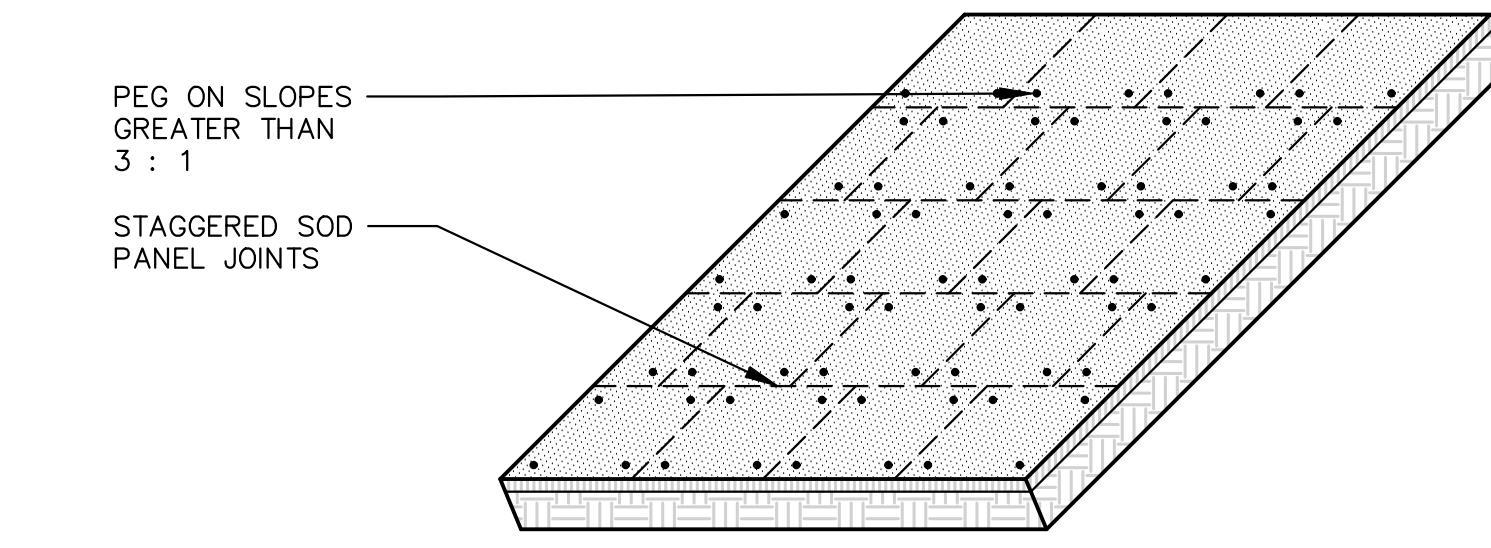
NOT TO SCALE

#### NOTES:



#### DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE



NOTES:

1. CULTIVATED SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
2. APPLY FERTILIZER AT THE RATE OF 500 POUNDS PER ACRE USING 10-20-10 RATIO OR AS DETERMINED BY SOIL TESTING.
3. SUPPLY PULVERIZED DOLOMATIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE OR AS DETERMINED BY SOIL TESTING.
4. APPLY 300 POUNDS 38-0-0 PER ACRE IN LIEU OF TOP DRESSING OR AS DETERMINED BY SOIL TESTING.
5. PLACE SOD STRIPS ON THE CONTOUR STARTING AT THE BOTTOM.
6. PLACE SOD WITH SNUG EVEN JOINTS THAT ARE STAGGERED.
7. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT.

8. ON SLOPES GREATER THAN 3 TO 1 SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8 TO 10 INCHES LONG BY 3/4 OF AN INCH).

9. ANCHOR SOD IN WATER CARRYING CHANNELS WITH HEAVY JUTE OR PLASTIC NETTING.

10. SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH THE SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.

#### SOD INSTALLATION DETAIL

NOT TO SCALE

#### SEEDING/SOD NOTES:

##### 1.) SEED AND SOD NOTES - GENERAL LAWN AREAS:

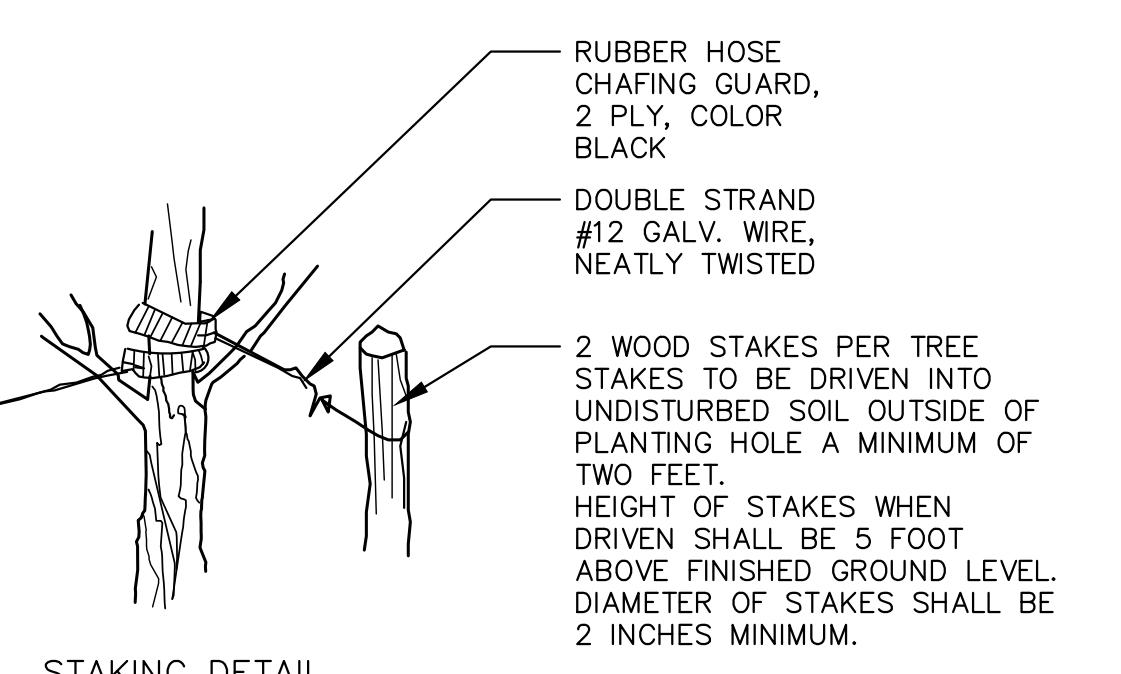
GENERAL LAWN AREAS - SHALL BE SEDED/SODDED AS SHOWN WITH "ATHLETIC FIELD MIX - ERNMX-106" BY ERNST CONSERVATION SEEDS, INC. SEED MIX SHALL INCLUDE:

30% BLACK CAT II PERENNIAL RYEGRASS  
30% RAPTOR II TALL FESCUE  
15% CLEARWATER KENTUCKY BLUEGRASS  
15% VOLT KENTUCKY BLUEGRASS  
10% ANNUAL RYEGRASS

PREFERRED DATES FOR SEED/SOD INSTALLATION SHALL BE DURING THE PERIODS OF EITHER APRIL 1ST TO MAY 31ST OR AUGUST 15TH TO OCTOBER 16TH.

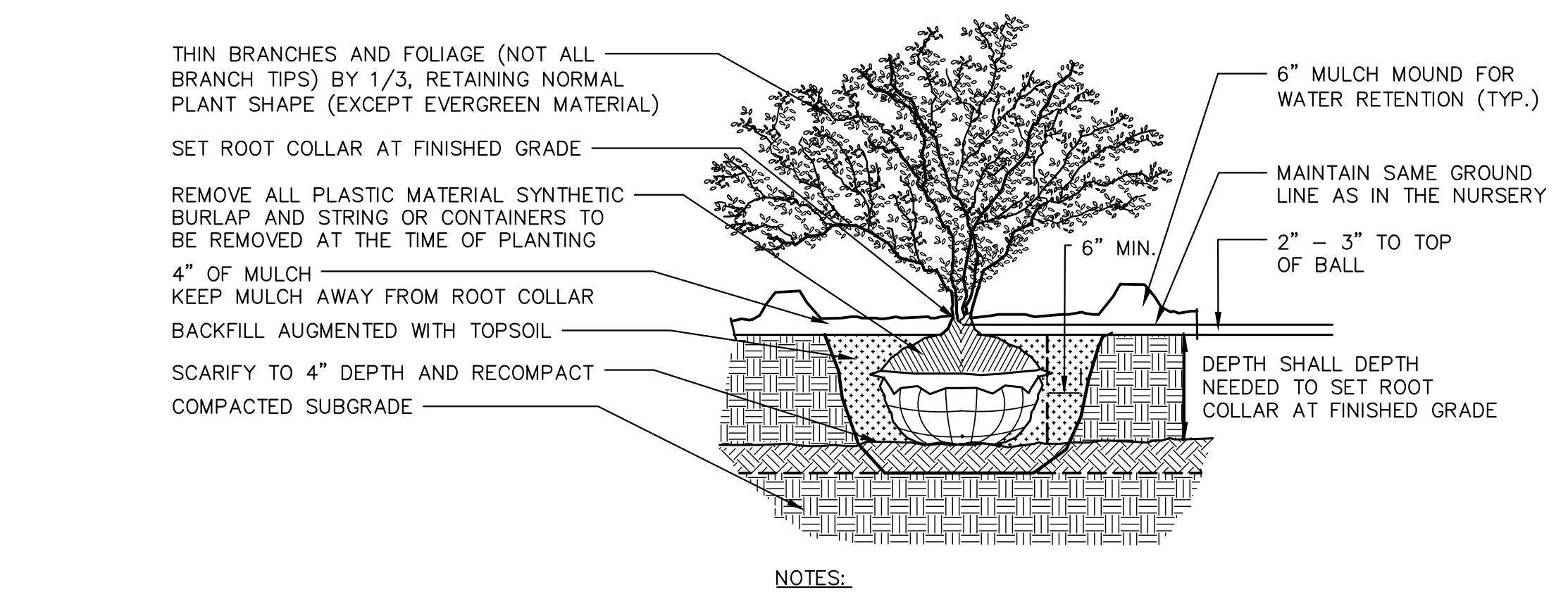
2.) THE CONTRACTOR WILL BE RESPONSIBLE FOR RE-ESTABLISHING ALL AREAS DISTURBED BY CONSTRUCTION. THE SEEDING/SODDING WILL BE IN ACCORDANCE WITH FREEHOLD SOIL CONSERVATION DISTRICT STANDARDS.

3.) SLOPED AREAS 3:1 AND GREATER SHALL RECEIVE IN COMBINATION WITH THE ABOVE SPECIFIED GRASS MIXTURE A BIODEGRADABLE EROSION CONTROL BLANKET BY NORTH AMERICAN GREEN ROLL MAX MODEL #BIONET575BN 5K OR APPROVED EQUAL



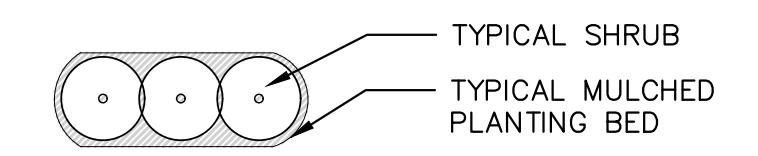
#### TREE STAKING DETAIL

NOT TO SCALE



#### SHRUB PLANTING DETAIL

NOT TO SCALE



1. Plainsboro Road  
Plainsboro, NJ 08536  
Bldg 170, Lvl 1-3  
Township of Plainsboro  
Middlesex County, New Jersey 08536

**PENN MEDICINE PRINCETON HEALTH CCIC**

**C217**

07/31/2024  
08/02/2024

PACKAGE 0  
PACKAGE 1

LANDSCAPING NOTES AND DETAILS 2

DRAWING INFORMATION

07/31/2024  
08/02/2024

PACKAGE 0  
PACKAGE 1

LANDSCAPING NOTES AND DETAILS 2

07/31/2024  
08/02/2024

PACKAGE 0  
PACKAGE 1

LANDSCAPING NOTES AND DETAILS 2

07/31/2024  
08/02/2024

PACKAGE 0  
PACKAGE 1

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07/31/2024  
08/02/2024

PACKAGE 0  
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LANDSCAPING NOTES AND DETAILS 2

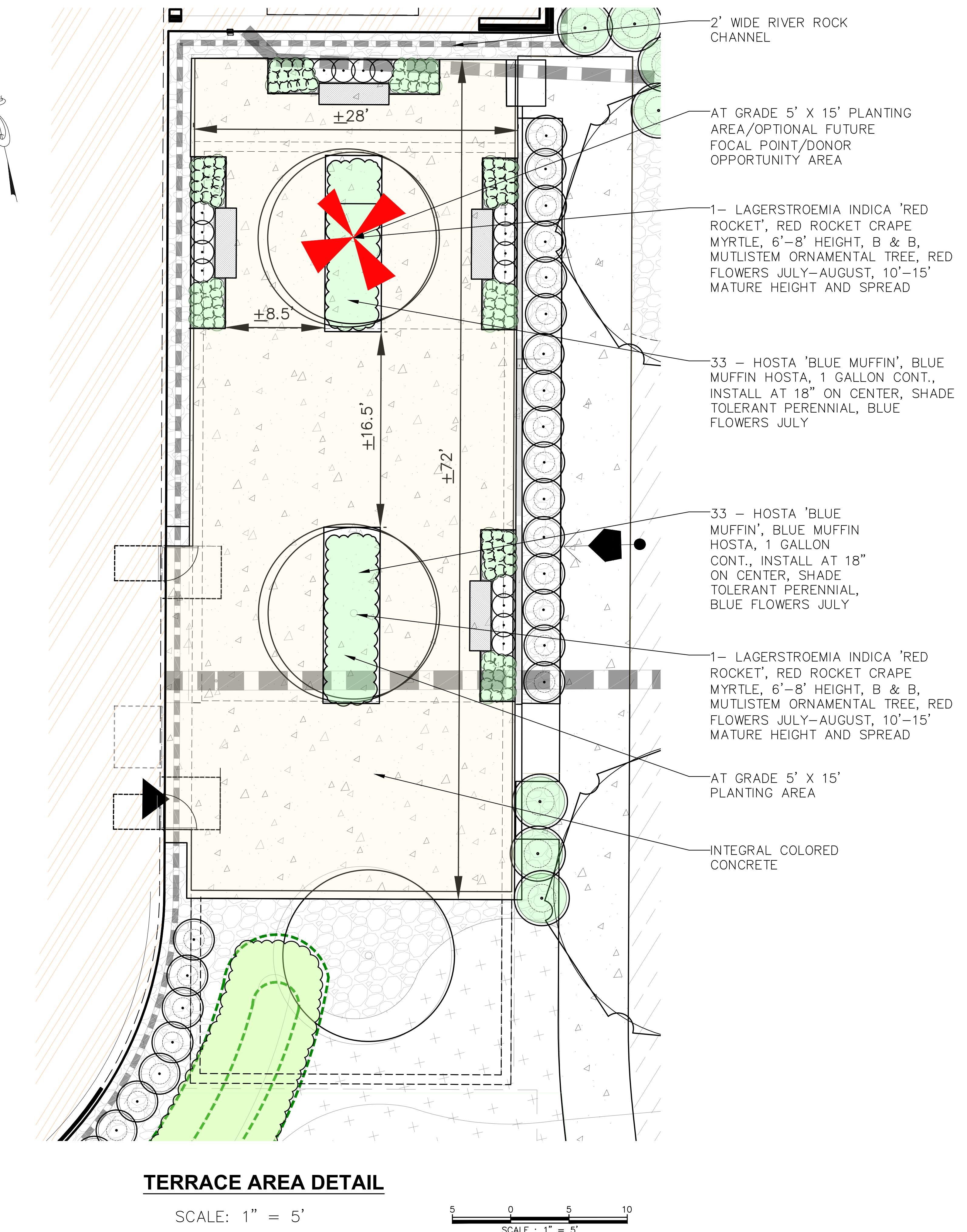
07/31/2024  
08/02/2024

PACKAGE 0  
PACKAGE 1

LANDSCAPING NOTES AND DETAILS 2

07/31/2024  
08/02/2024





2' WIDE RIVER ROCK CHANNEL

AT GRADE 5' X 15' PLANTING AREA/OPTIONAL FUTURE FOCAL POINT/DONOR OPPORTUNITY AREA

1- LAGERSTROEMIA INDICA 'RED ROCKET', RED ROCKET CREPE MYRTLE, 6'-8' HEIGHT, B & B, MULTISTEM ORNAMENTAL TREE, RED FLOWERS JULY-AUGUST, 10'-15' MATURE HEIGHT AND SPREAD

33 - HOSTA 'BLUE MUFFIN', BLUE MUFFIN HOSTA, 1 GALLON CONT., INSTALL AT 18" ON CENTER, SHADE TOLERANT PERENNIAL, BLUE FLOWERS JULY

33 - HOSTA 'BLUE MUFFIN', BLUE MUFFIN HOSTA, 1 GALLON CONT., INSTALL AT 18" ON CENTER, SHADE TOLERANT PERENNIAL, BLUE FLOWERS JULY

1- LAGERSTROEMIA INDICA 'RED ROCKET', RED ROCKET CREPE MYRTLE, 6'-8' HEIGHT, B & B, MULTISTEM ORNAMENTAL TREE, RED FLOWERS JULY-AUGUST, 10'-15' MATURE HEIGHT AND SPREAD

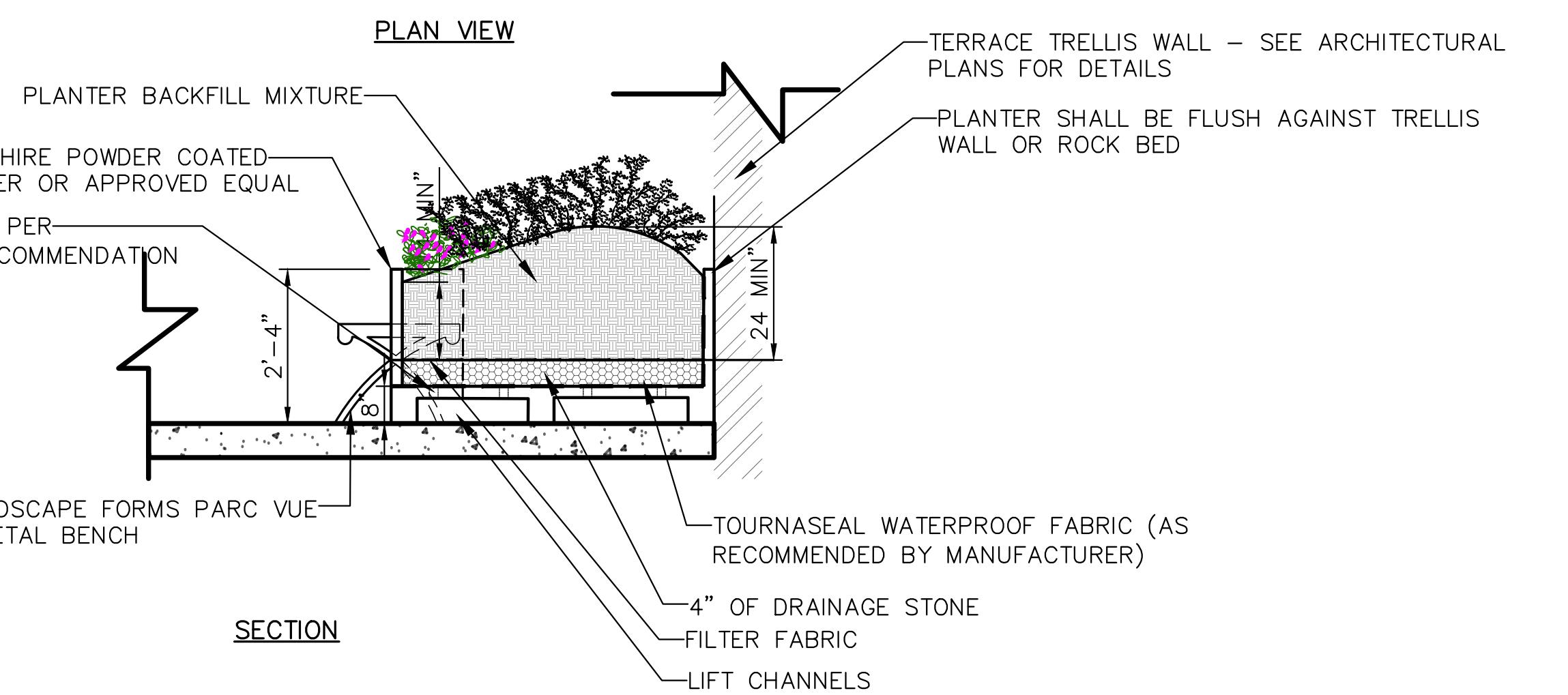
AT GRADE 5' X 15' PLANTING AREA

INTEGRAL COLORED CONCRETE

4-ILEX CRENATA SKY PENCIL - SKY PENCIL HOLLY, INSTALL AT 2'-3' HEIGHT, B & B, UPRIGHT EVERGREEN HOLLY

13 - GERANIUM TINY MONSTER, TINY MONSTER GERANIUM, 1 GALLON CONTAINERS, PART SHADE 6"-12" HIGH PERENNIAL, PURPLE FLOWERS MAY TO AUGUST

13 - GERANIUM TINY MONSTER, TINY MONSTER GERANIUM, 1 GALLON CONTAINERS, PART SHADE 6"-12" HIGH PERENNIAL, PURPLE FLOWERS MAY TO AUGUST

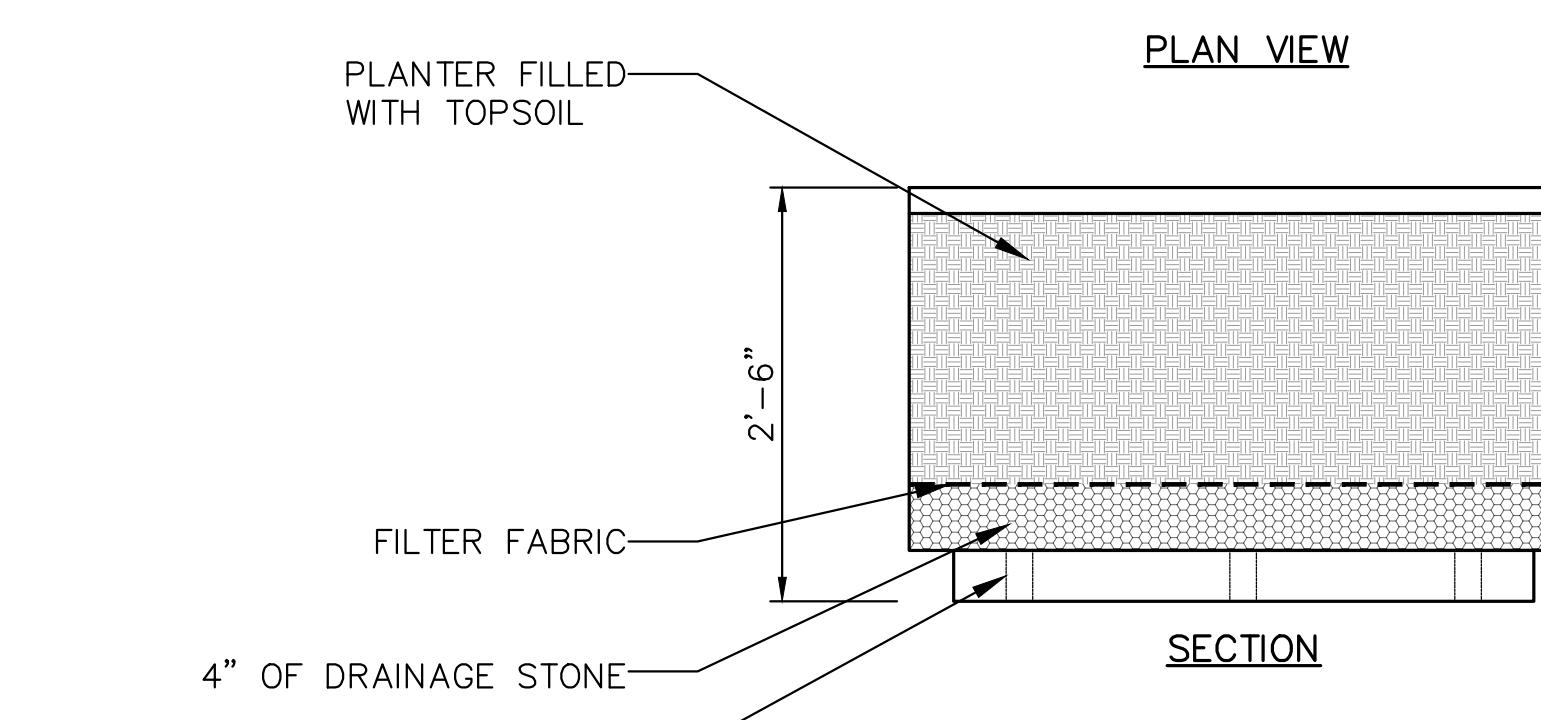
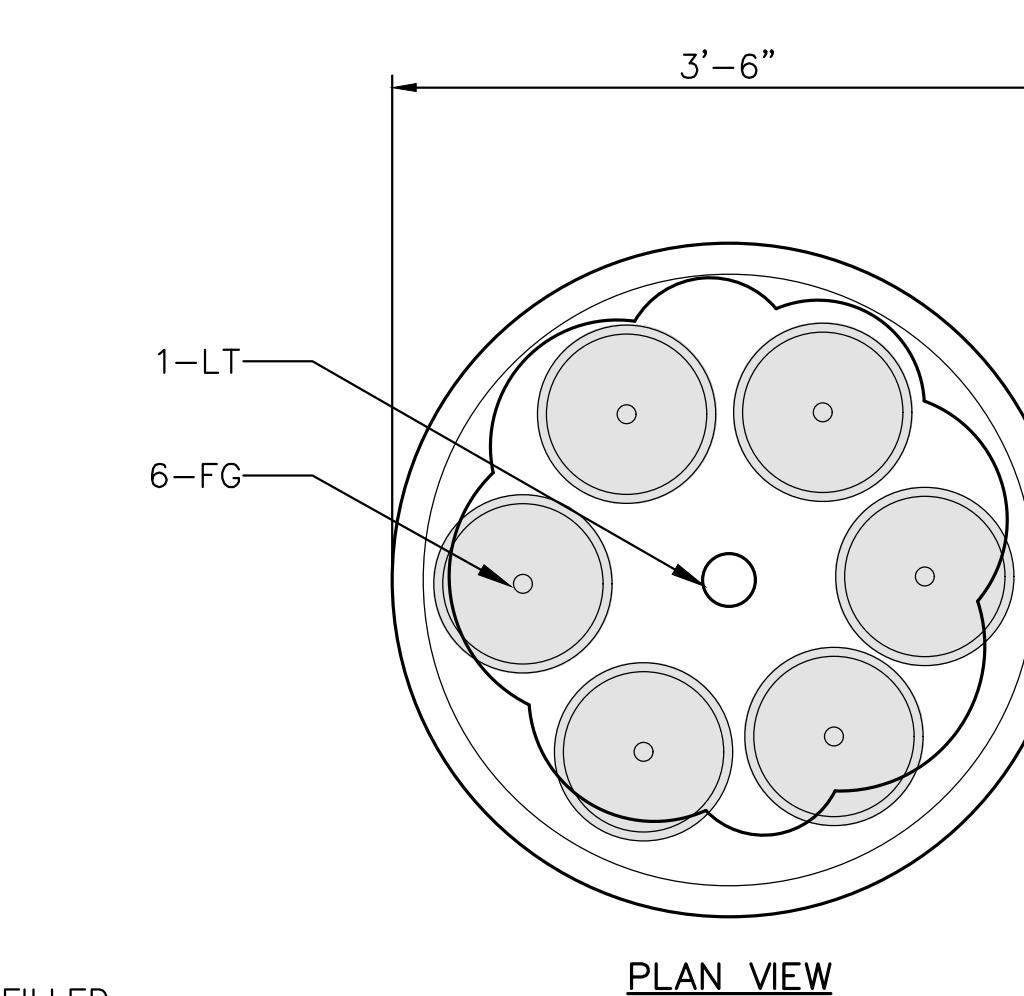


**NOTES:**

1. CUSTOM PLANTERS TO MANUFACTURED BY TOURNESOL, UNION CITY CALIFORNIA (TOURNESOL.COM) MODEL WILTSHIRE RECTANGULAR IN POWDER COATED ALUMINUM. COLOR TO SELECTED FROM STANDARD AVAILABLE COLORS BY OWNER.
2. THE DETAIL PROVIDED ON THIS DRAWING IS FOR SCHEMATIC AND INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL BE REQUIRED TO CONTACT THE PLANTER MANUFACTURER FOR SPECIFIC DESIGN DETAILS AND APPLICABLE OPTIONS, SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

**SCHEMATIC TERRACE PLANTER LAYOUT**

NOT TO SCALE



PLANTER PLANT LIST (PER PLANTER)						
ORNAMENTAL AND EVERGREEN TREES						
SYM	QTY	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MATURE SIZE	REMARKS
LT	1	LAGERSTROEMIA TONTO'	TONTO CREPE MYRTLE	2.5' HEIGHT	8' HEIGHT, 6' SPREAD	B & B, MULTISTEM, DECIDUOUS DWARF ORNAMENTAL TREE
FG	6	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE	2 GAL.	6'-12" HEIGHT AND SPREAD	ORNAMENTAL GRASS

**NOTES:**

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER'S APPROVAL PRIOR TO ORDERING ANY MATERIAL.

PRODUCT: MAREK FIBERGLASS ROUND PLANTER 42"W x 30"H ON CASTERS OR APPROVED EQUAL

COLOR/FINISH TO BE AVAILABLE STANDARD COLOR AS APPROVED BY OWNER

MANUFACTURER: PLANTERS UNLIMITED, CARLSBAD, CA [WWW.PLANTERSUNLIMITED.COM](http://WWW.PLANTERSUNLIMITED.COM) OR APPROVED EQUAL

PHONE: 1-888-320-0626

**PHYSICAL THERAPY ENTRANCE PLANTER DETAIL**

NOT TO SCALE

1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO. 5262-000  
BLDG. 1700, Lvl 1-3.01  
Township of Plainsboro  
Middlesex County, New Jersey 08536


**LANDSCAPING NOTES AND DETAILS 4**

**C219**

ISSUES		
1. 10/18/2024	REVISED PER DRC COMMENTS	
NO. DATE	DESCRIPTION	



**PENN MEDICINE PRINCETON HEALTH CCIC**



## SOIL EROSION AND SEDIMENT CONTROL NOTES

- THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE FREEHOLD SOIL CONSERVATION DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
4. NJ.S.A. 4:24-39 ET. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN FULL COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL. THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT-BY-LOT OR SECTION-BY-SECTION BASIS, PROVIDED THAT THE DISTRICT PROJECT OR PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR SOIL EROSION AND SEDIMENT CONTROL AS DETERMINED BY THE DISTRICT. THE REPORT OF COMPLIANCE WILL NOT BE ISSUED UNTIL THE DISTRICT DETERMINES THAT THE PROJECT IS IN FULL COMPLIANCE.
5. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE, ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADBEDS, EMBANKMENTS, BANKS, TERRACES, ETC.) SHOULD BE TREATED WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AND A MULCH ANCHOR, IN ACCORDANCE WITH STATE STANDARDS.
7. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT THE SUB-BASE SHALL BE INSTALLED WITHIN TWENTY (20) DAYS OF THE INITIAL DISTURBANCE.
8. THE STANDARD FOR STABILIZED CONSTRUCTION AREAS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER ROADWAYS ARE PAVED, INDIVIDUALLOTS REQUIRE STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF ONE INCH TO TWO INCH (1"-2") STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE WIDTH OF THE ENTRANCE. THE ENTRANCE SHALL BE APPROVED EQUAL - ACCEPTABLE SEEDING DATES ARE BETWEEN MARCH 1 THRU APRIL 30 AND OPTIMAL SEEDING DATES ARE AUGUST 15 THRU OCTOBER 15.
9. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE ONTO PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY.
10. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
11. AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE COVERAGE IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADOBE OR NEGATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OF SOIL IS NOT POSSIBLE, THE SOIL MUST NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE ELEMENTS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
12. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS, OR CONTAINING IRON SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS/ACRE, (OR 450 LB/S/ACRE SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 24" WHERE TREES OR SHRUBS ARE PLANTED.
13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
14. UNLITERED DETERWELLING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DETERWELLING OPERATIONS TO MINIMIZE SEDIMENTATION. ANY DETERWELLING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DETERWELLING.
15. THE CONTROL OF DUST AT THE SITE WILL BE NECESSARY. THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVERS SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
16. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. THE STANDARD FOR DETERWELLING AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5,000 SQUARE FEET IS DISTURBED.
17. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6.
18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

## FREEDOM SOIL CONSERVATION DISTRICT

4000 KOLOSKY ROAD

PRINCETON, NEW JERSEY 08728

(732) 685-8000

## ACID SOILS NOTES

IN ORDER TO PROVIDE SUITABLE CONDITIONS FOR GROWTH AND VEGETATION AND TO PREVENT THE ACIDIFYING OF DRAINAGE AREAS UNDERLAIN WITH ACID FORMATIONS WITH A PH BELOW 4.0 THE FOLLOWING REQUIREMENT SHALL BE MET:

- LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID PRODUCING SOILS ARE ENCOUNTERED.
- TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARILY STOCKPILED HIGH ACID PRODUCING SOILS.
- STOCKPILES OF HIGH ACID PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY CONTENT.
- TEMPORARILY STOCKPILED HIGH ACID PRODUCING SOIL MATERIAL TO BE STORED MORE THAN 48 HOURS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. WHERE SHEETS ARE NOT POSSIBLE, THE STOCKPILE SILT FENCE SHALL BE INSTALLED AT THE TOE OF SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL. STOCKPILES SHALL NOT BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH ACID PRODUCING SOIL.
- HIGH ACID PRODUCING SOILS WITH A PH OF 4 OR LESS, OR CONTAINING IRON SULFIDE, (INCLUDING BORROW FROM CUTS OR DREDGED SEDIMENT) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS PER ACRE, (OR 450 LB/S/ACRE SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 24" WHERE TREES OR SHRUBS ARE PLANTED.
- DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24" OF ANY SURFACE OF A SLOPE, BANK, SUCH AS BERMS, STREAM BANKS, DITCHES AND OTHERS TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.
- EQUIPMENT USED FOR MOVEMENT OF HIGH ACID-PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID-PRODUCING SOIL MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS AND OTHER SURFACE CONCOURS, AND TO PREVENT CONTAMINATION OF THE ENVIRONMENT.
- NON-VEGETATIVE EROSION CONTROL PRACTICES (STONE TRAPPING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAM, SILT BARRIER, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID-PRODUCING SOIL.
- FOLLOWING BURIAL OR REMOVAL OF HIGH ACID-PRODUCING SOIL, TOPSOILING AND SEEDING OF THE SITE (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND SOIL EROSION AND SEDIMENT CONTROL PLANS) SHOULD BE INSTALLED TO ENSURE THAT NO HIGH ACID-PRODUCING SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST, THE AFFECTED AREA MUST BE TREATED AS INDICATED ABOVE TO CORRECT THE PROBLEM.

## CONSTRUCTION SCHEDULE AND PROCEDURE FOR IMPLEMENTATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES

- PROVIDE TEMPORARY STABILIZATION OF ALL DISTURBED AREAS AND INSTALL SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE AND ALL OTHER NECESSARY SOIL EROSION MEASURES. (1 WEEK)
- PERFORM SITE CLEARING. (2 WEEKS)
- CLEAR AND ESTABLISH ROUGH GRADES AS NECESSARY TO CONSTRUCT BUILDING AND SITE IMPROVEMENTS. (2 WEEKS)
- INSTALL BIO-RETENTION SYSTEM, INLETS AND CONNECTING PIPES. (5 WEEKS)
- INSTALL ALL UNDERGROUND UTILITIES. (3 WEEKS)
- INSTALL CURB, AND PAVEMENT BASE COURSE. (4 WEEKS)
- CONSTRUCT BUILDING. (12 WEEKS)
- ESTABLISH FINISHED GRADE, AND PROVIDE PERMANENT VEGETATIVE COVER. (2 WEEKS)
- PAVE DRIVEWAYS, ACCESS DRIVE AND COMPLETE LIGHTING. (3 WEEKS)
- REMOVE ACCESS PROTECTION, AND SILT FENCE AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED. (1 WEEK)

THE ABOVE SCHEDULE IS FOR THE IMPLEMENTATION AND INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES ONLY. CONTRACTOR MAY MODIFY OR CREATE HIS OWN SCHEDULE. IF THE CONSTRUCTION SCHEDULE IS MODIFIED, A REVISION TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED.

## TEMPORARY STOCKPILE

NOT TO SCALE

1. TOPSOIL STOCKPILES TO BE PLACED AS DETERMINED IN THE FIELD.

2. STOCKPILE NOT TO BE PLACED IN AREA WITH CONCENTRATED FLOW, VENETIAN, EXTREME SLOPE OR WITHIN 100' OF A NATURAL STREAM.

EXISTING GRADE (TYP.)  
STOCKPILE TOP AND SIDES TO BE IMMEDIATELY STABILIZED WITH TEMPORARY VEGETATIVE COVER  
SILT FENCE (TYP.)  
SILT ACCUMULATION  
FENCE POST SPACING 8" - 0" O.C.  
WITH METAL FASTERS AND REINFORCEMENT BETWEEN FASTENER AND FABRIC  
DRAWSTRING RUNNING THROUGH FABRIC ALONG TOP OF FENCE  
OPTIONAL WIRE FENCE BEHIND FABRIC FOR "SUPER" SILT FENCE  
DIG 6" IN DEEP TRENCH BURY BOTTOM FLAP, TAMP IN PLACE

Maintenance Notes:  
1. SEGMENT SHALL BE REMOVED FROM THE UPSTREAM FACE OF THE BARRIER WHEN IT HAS REACHED A DEPTH OF 1/2 THE BARRIER HEIGHT.  
2. REPLACE OR REPAIR BARRIER (FABRIC, POSTS, BALES ETC.) WHEN DAMAGED.  
3. BARRIERS SHALL BE INSPECTED DAILY FOR SIGNS OF DETERIORATION AND SEDIMENT REMOVAL.

NOT TO SCALE  
Type A/E  
EXISTING GRADE (TYP.)  
STOCKPILE TOP AND SIDES TO BE IMMEDIATELY STABILIZED WITH TEMPORARY VEGETATIVE COVER  
SILT FENCE (TYP.)  
SILT ACCUMULATION  
FENCE POST SPACING 8" - 0" O.C.  
WITH METAL FASTERS AND REINFORCEMENT BETWEEN FASTENER AND FABRIC  
DRAWSTRING RUNNING THROUGH FABRIC ALONG TOP OF FENCE  
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NOTES:

1. TOPSOIL STOCKPILES TO BE PLACED AS DETERMINED IN THE FIELD.

2. STOCKPILE NOT TO BE PLACED IN AREA WITH CONCENTRATED FLOW, VENETIAN, EXTREME SLOPE OR WITHIN 100' OF A NATURAL STREAM.

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Type A/E  
EXISTING GRADE (TYP.)  
STOCKPILE TOP AND SIDES TO BE IMMEDIATELY STABILIZED WITH TEMPORARY VEGETATIVE COVER  
SILT FENCE (TYP.)  
SILT ACCUMULATION  
FENCE POST SPACING 8" - 0" O.C.  
WITH METAL FASTERS AND REINFORCEMENT BETWEEN FASTENER AND FABRIC  
DRAWSTRING RUNNING THROUGH FABRIC ALONG TOP OF FENCE  
OPTIONAL WIRE FENCE BEHIND FABRIC FOR "SUPER" SILT FENCE  
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NOTES:

1. TOPSOIL STOCKPILES TO BE PLACED AS DETERMINED IN THE FIELD.


2. STOCKPILE NOT TO BE PLACED IN AREA WITH CONCENTRATED FLOW, VENETIAN, EXTREME SLOPE OR WITHIN 100' OF A NATURAL STREAM.

EXISTING GRADE (TYP.)  
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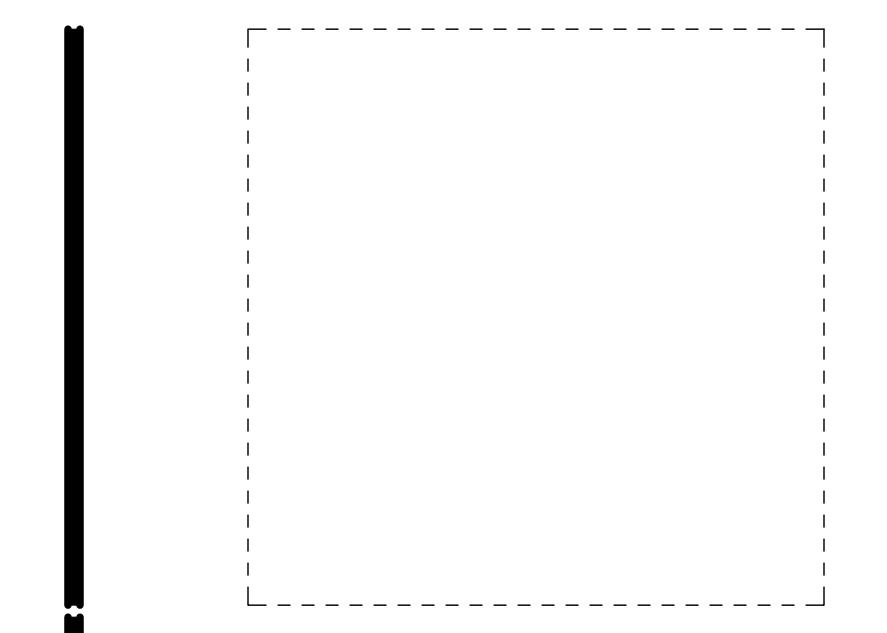
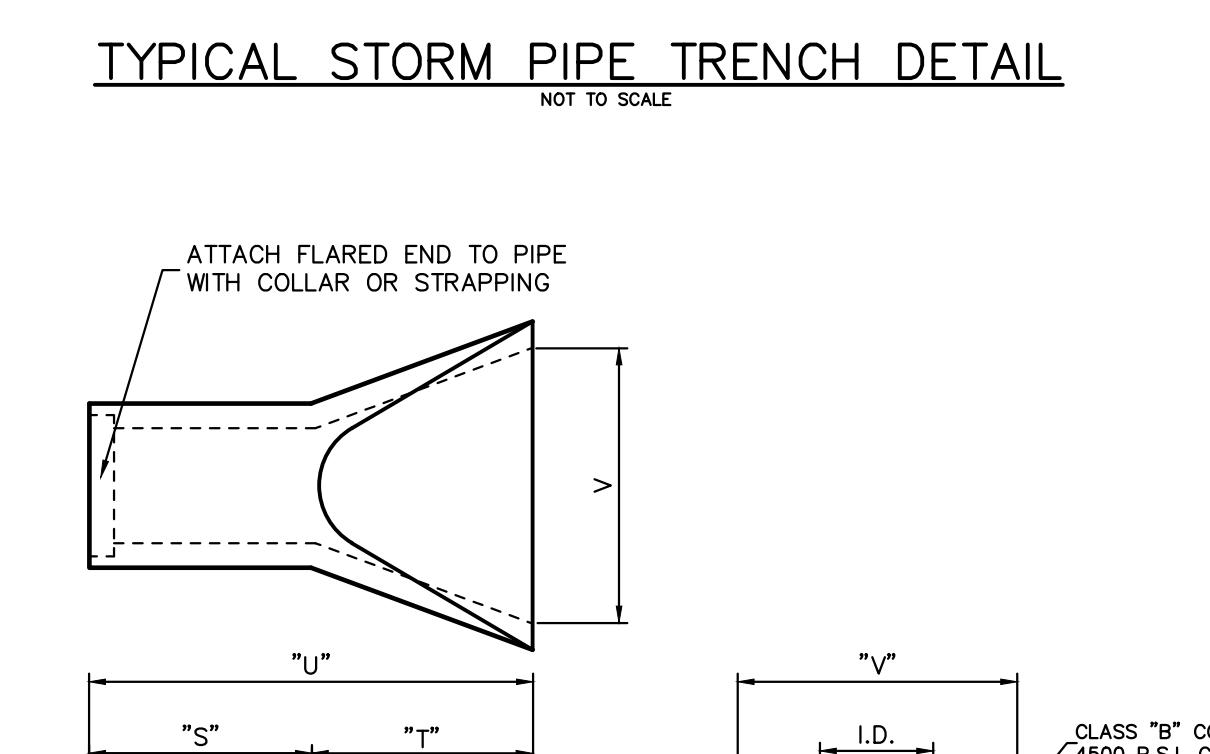
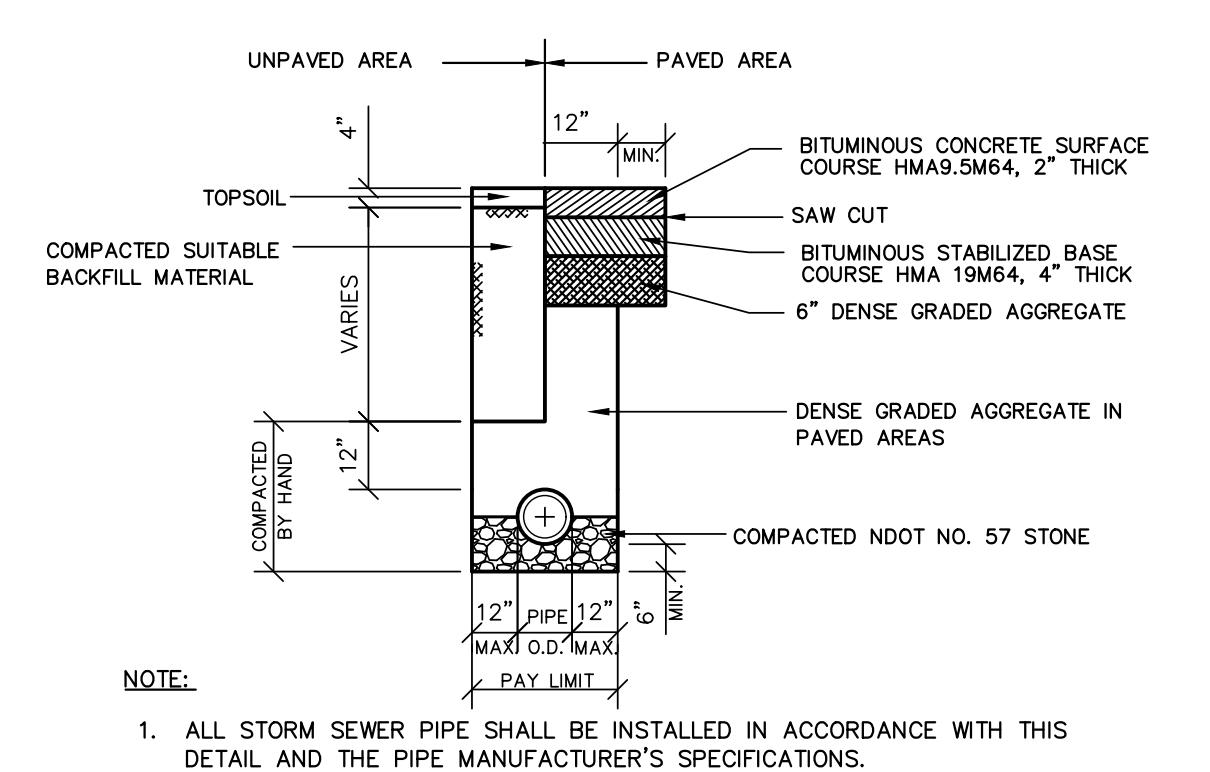
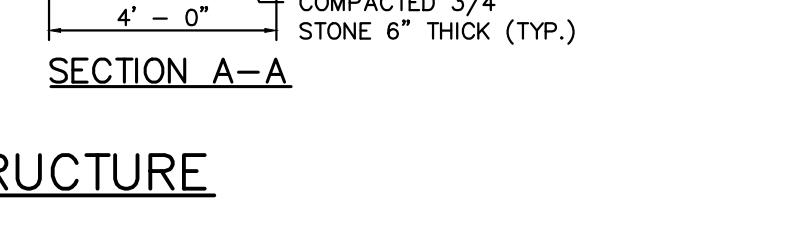
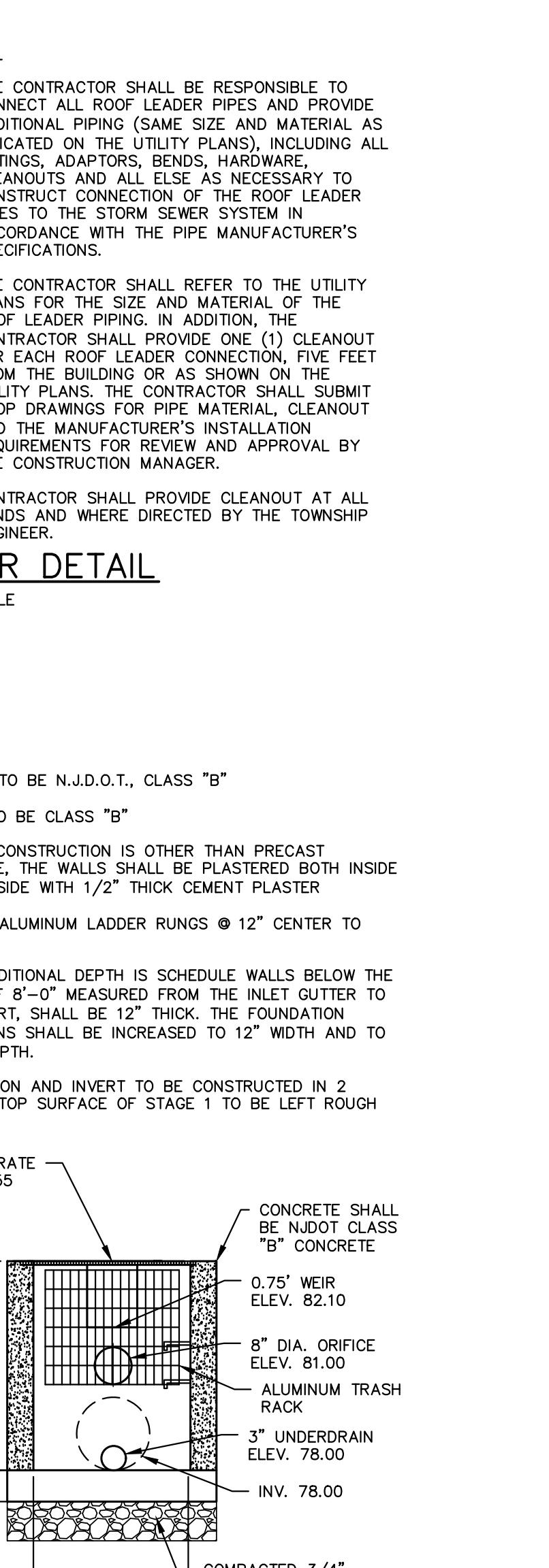
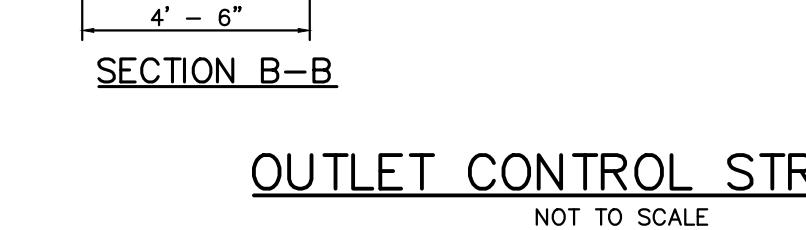
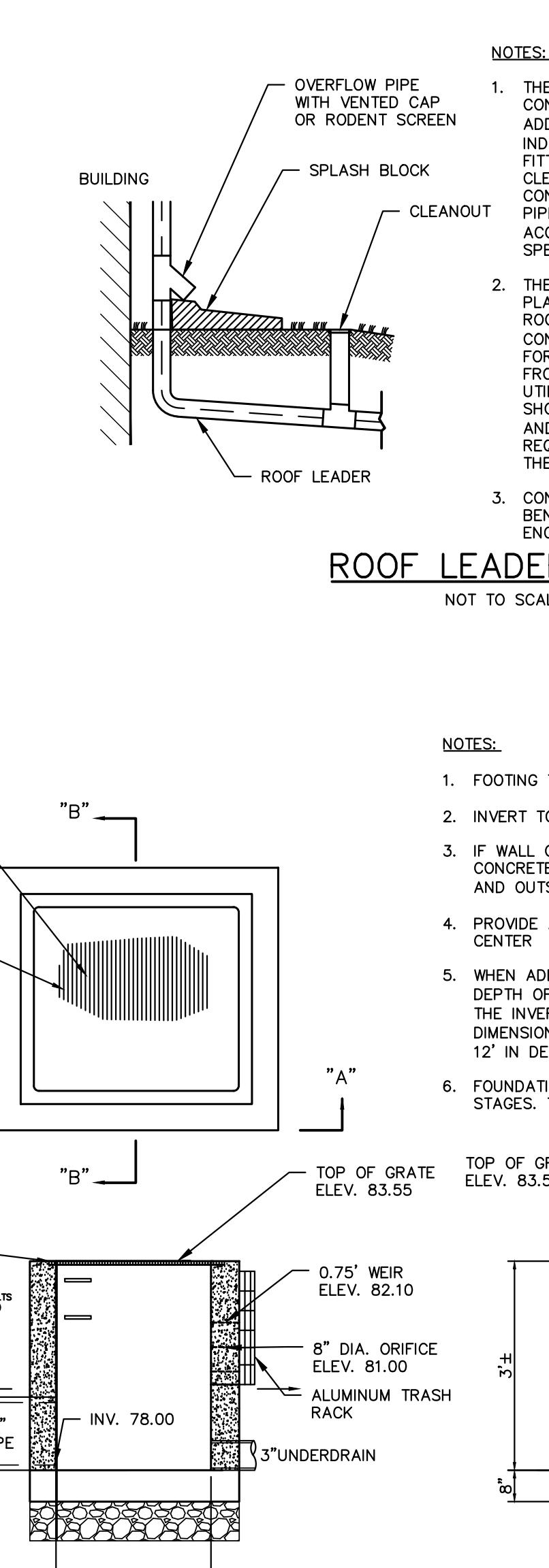
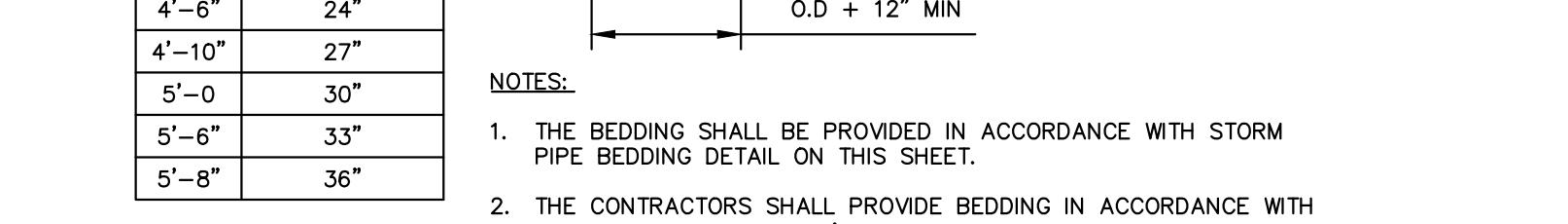
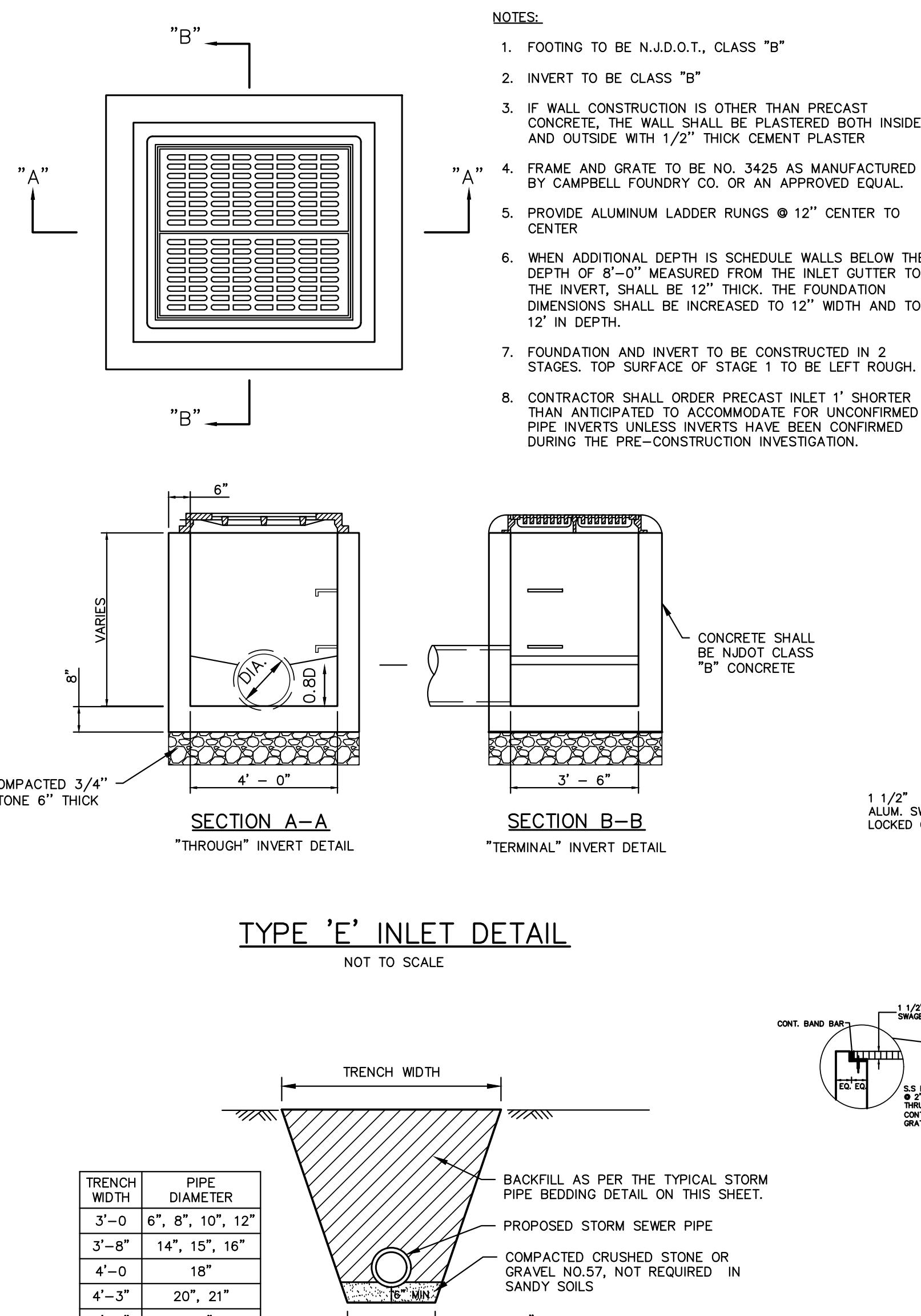
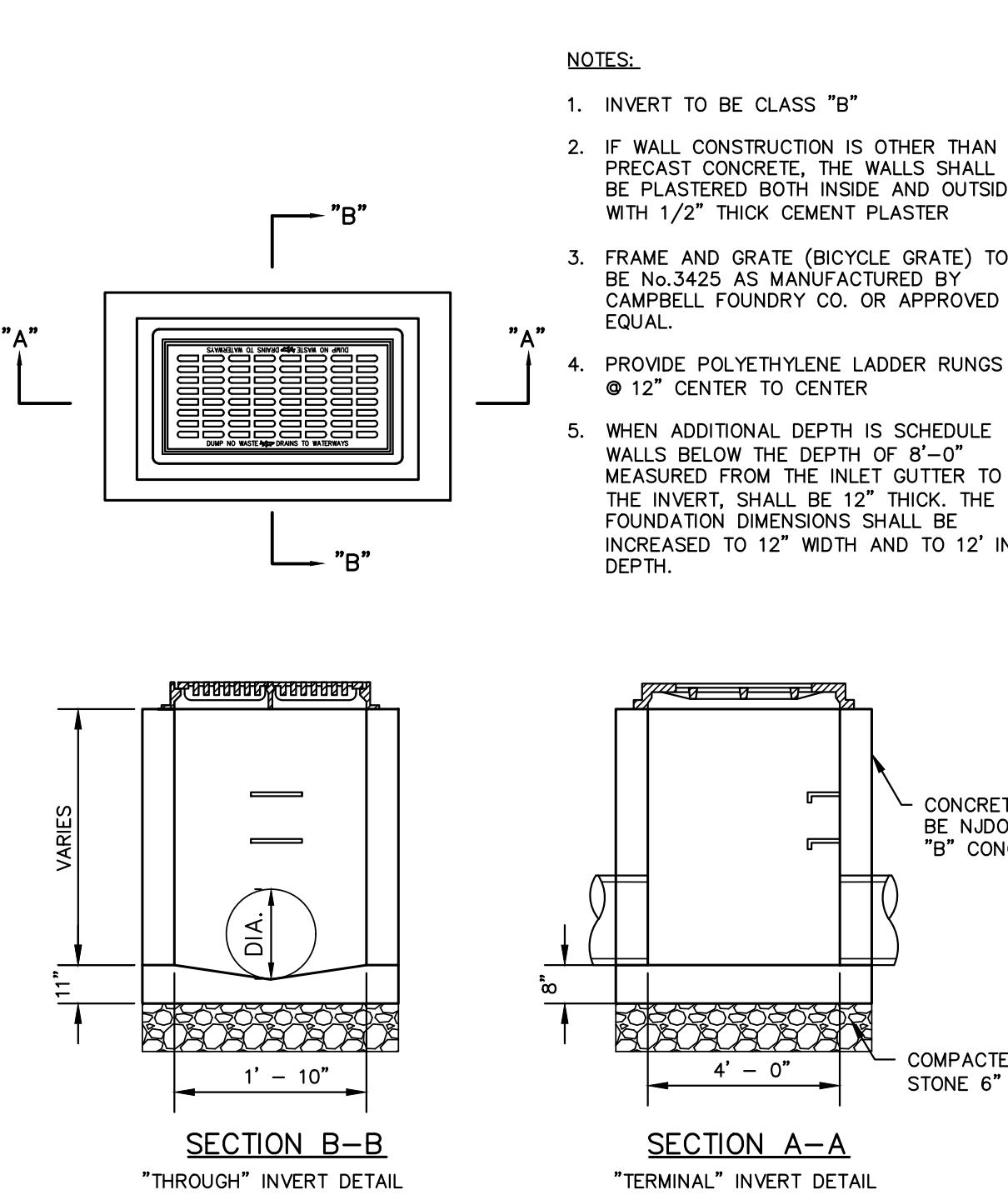
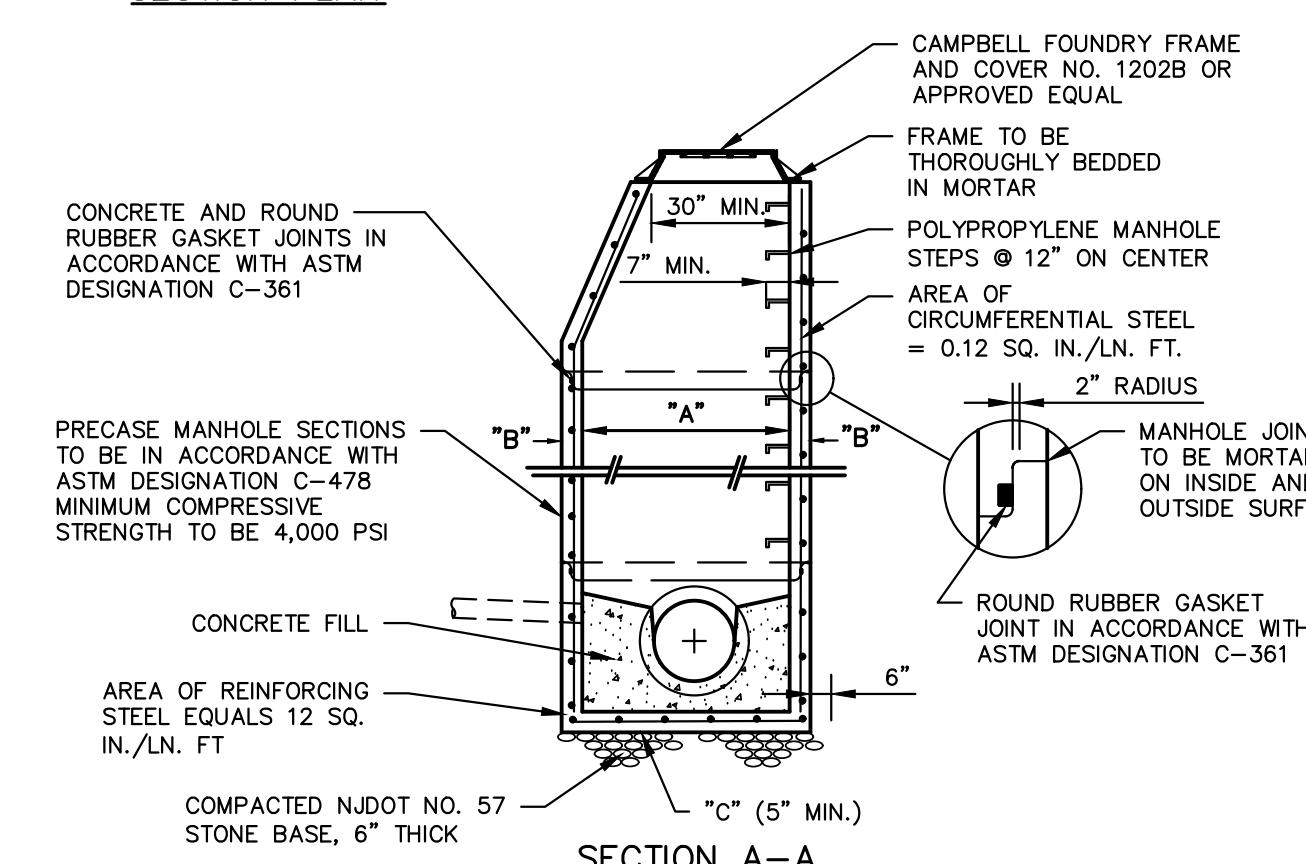
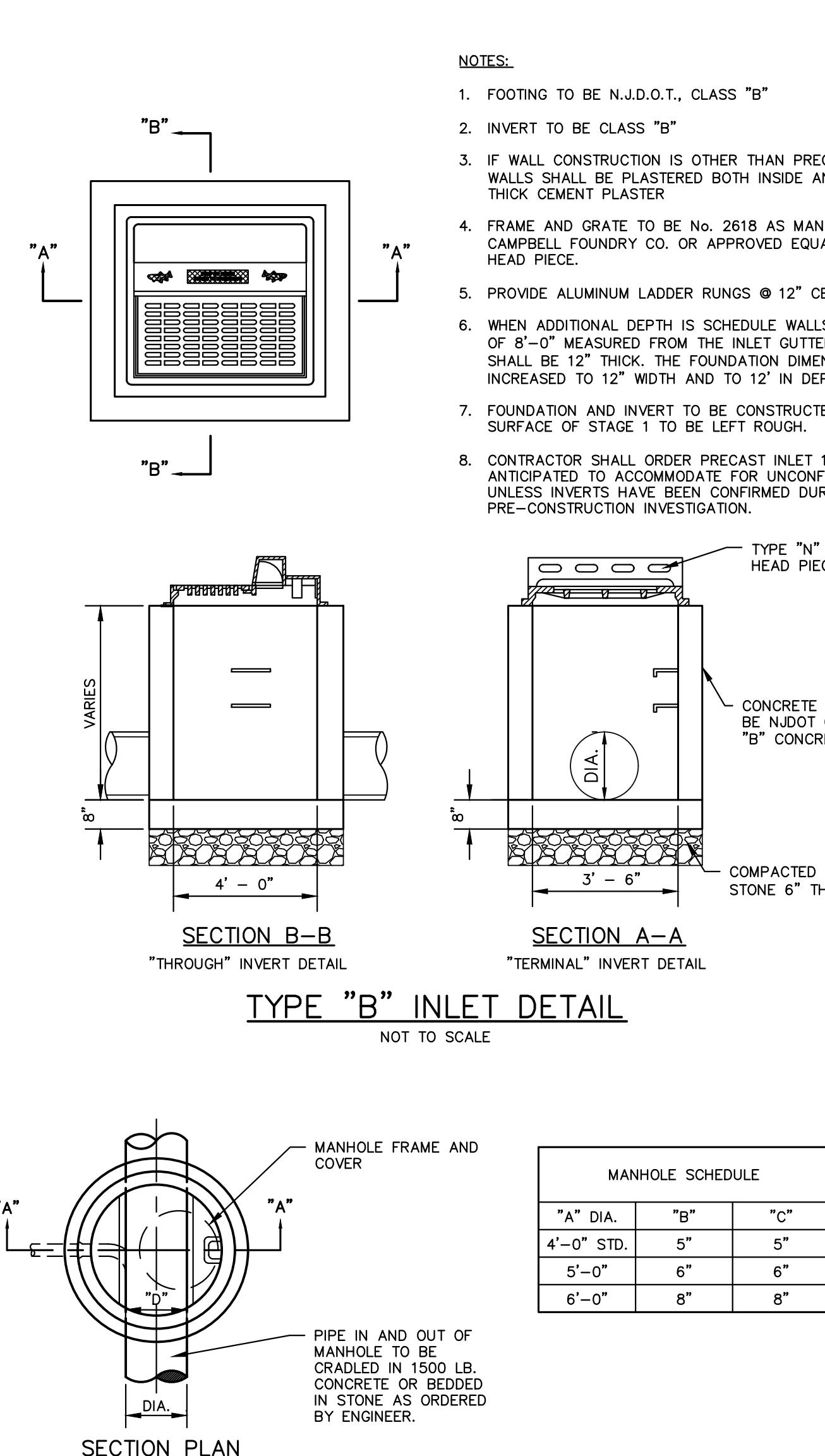
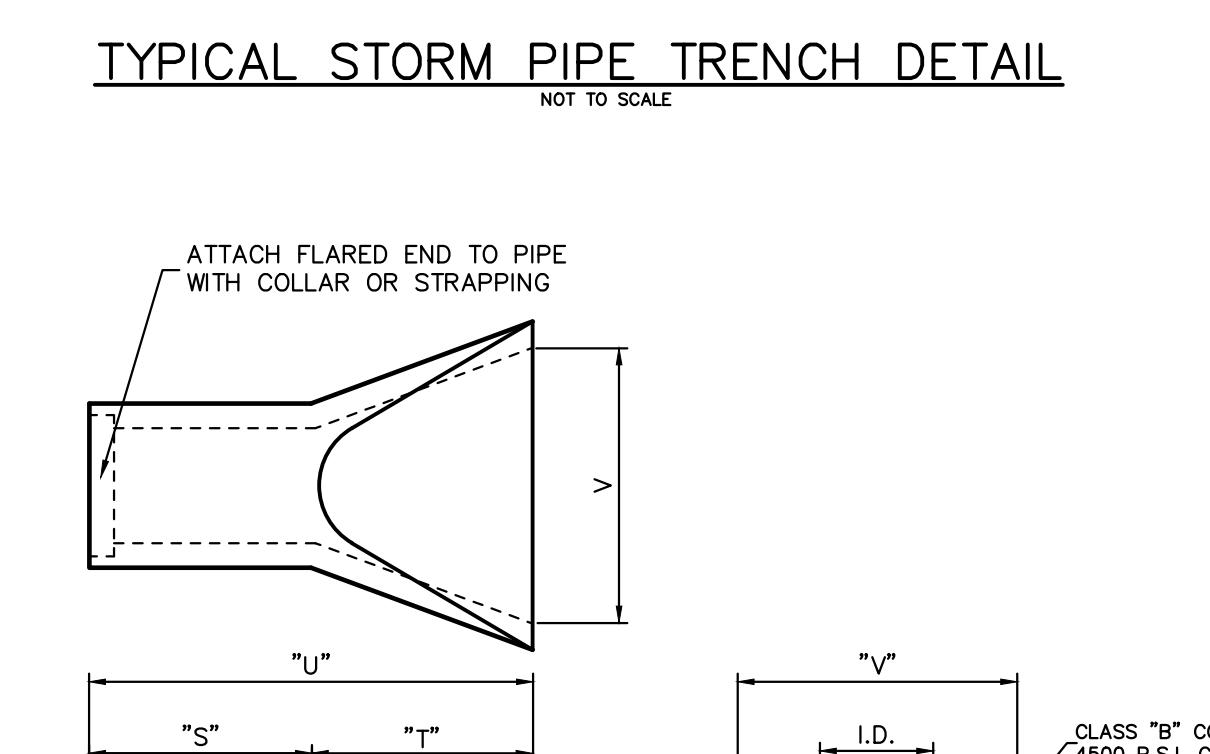
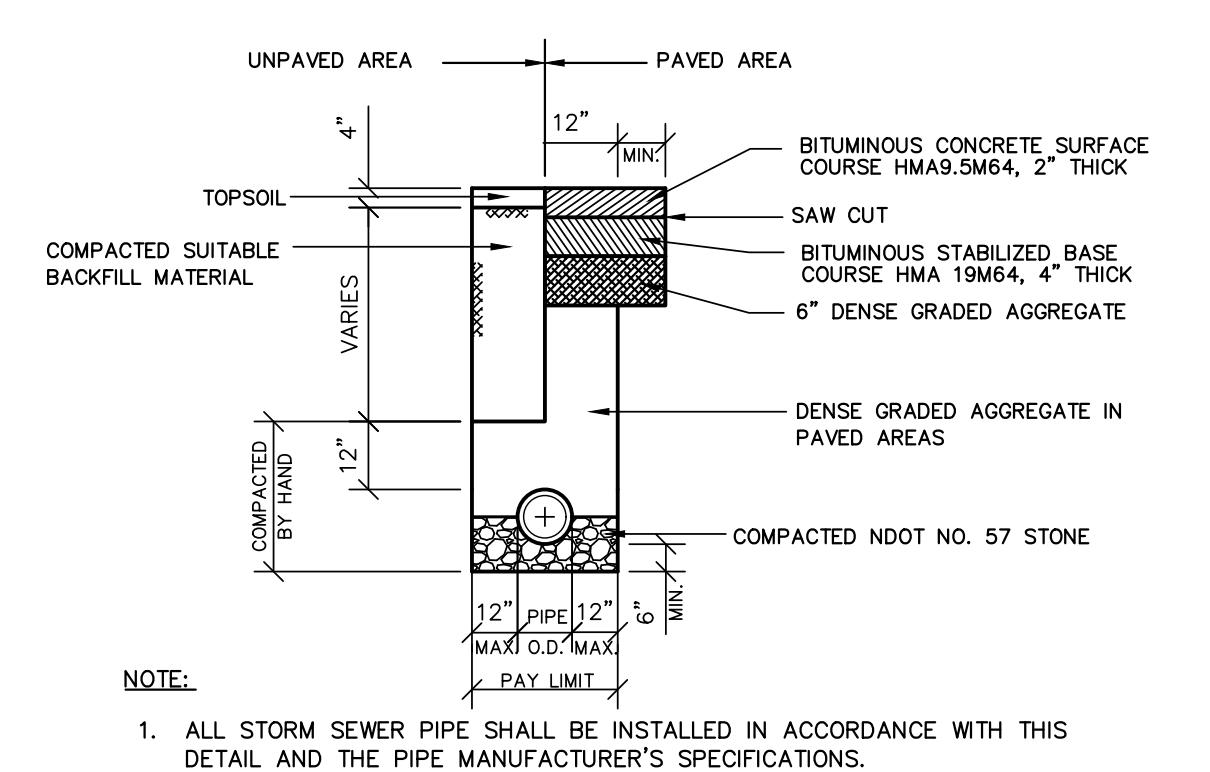
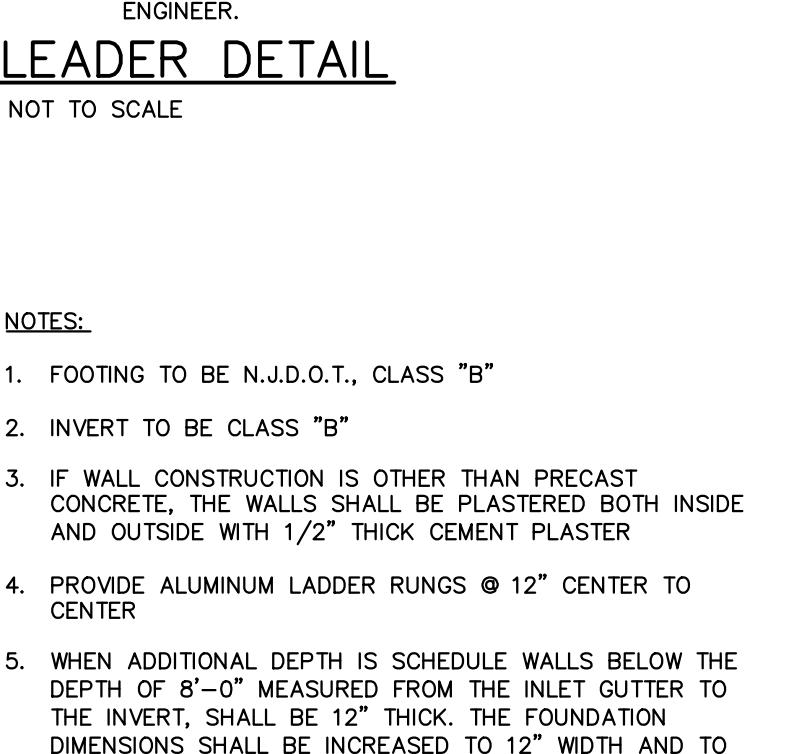
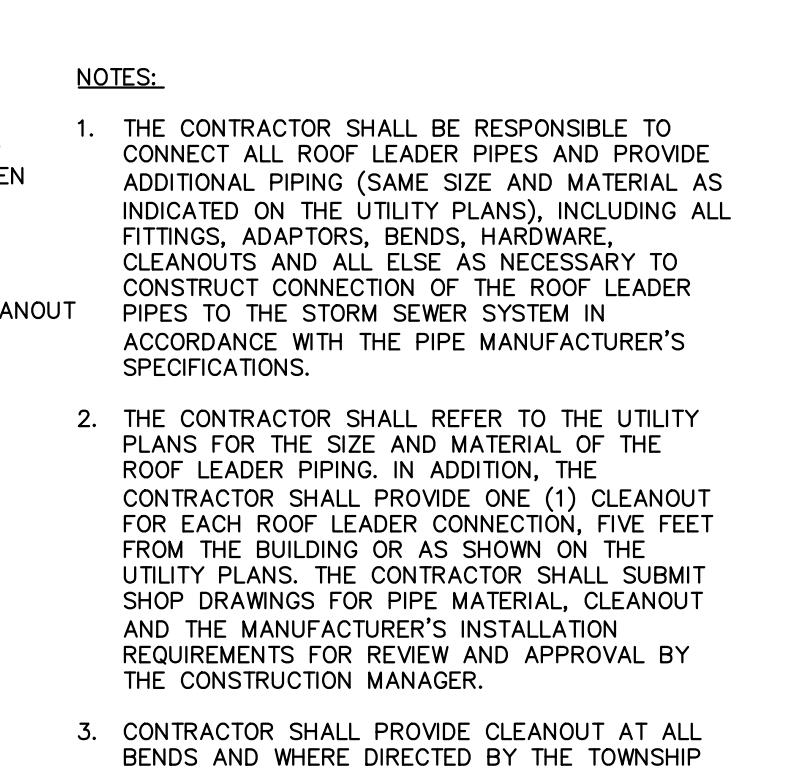
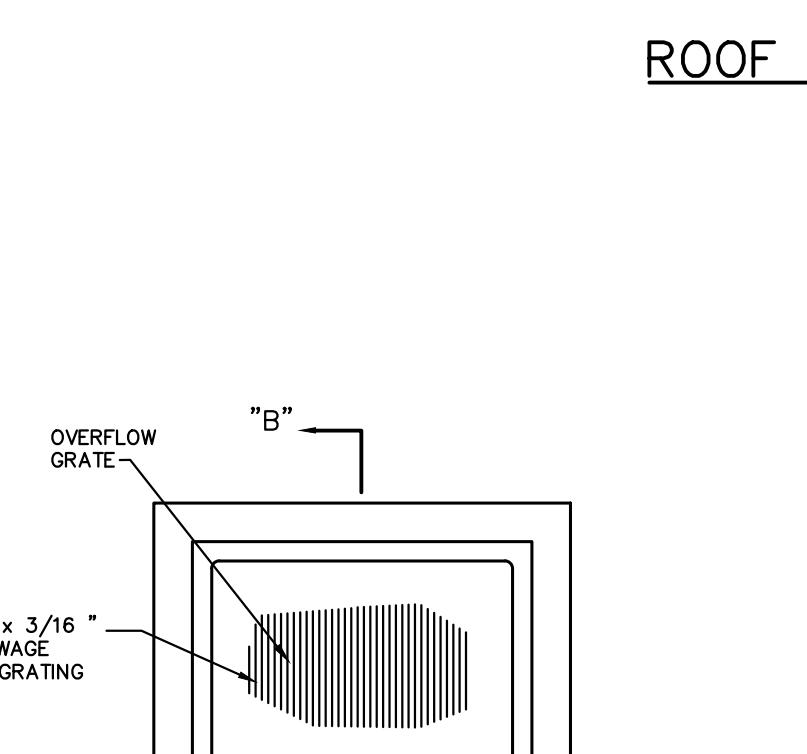
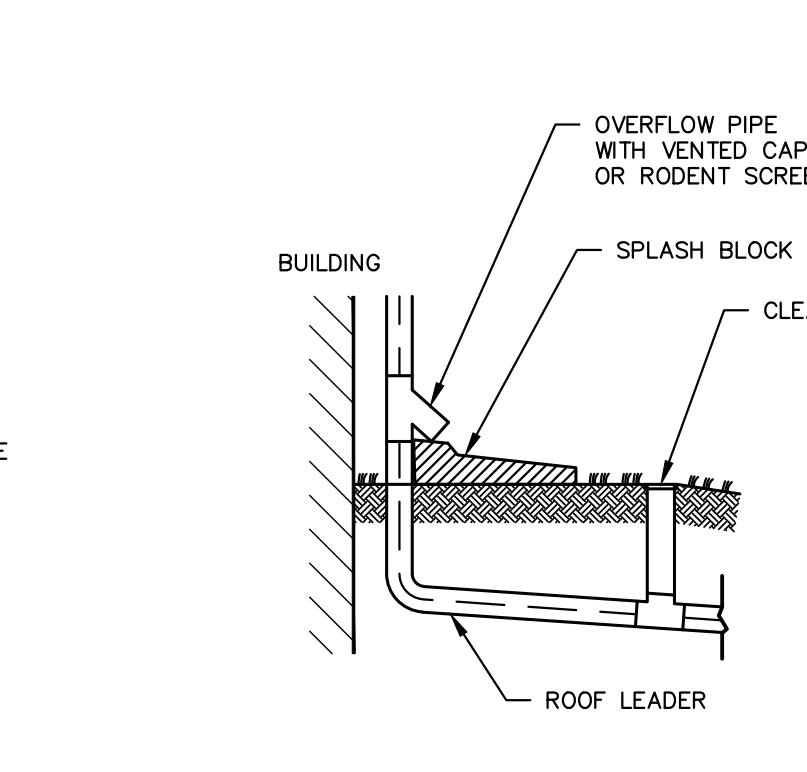
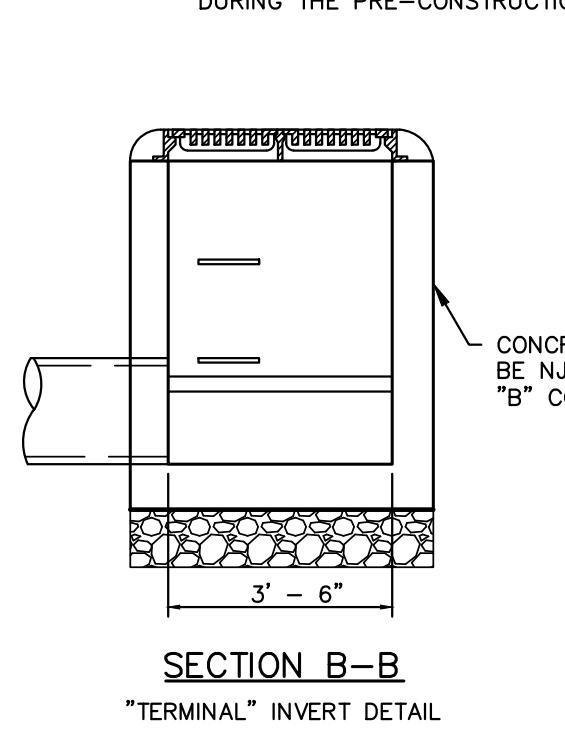
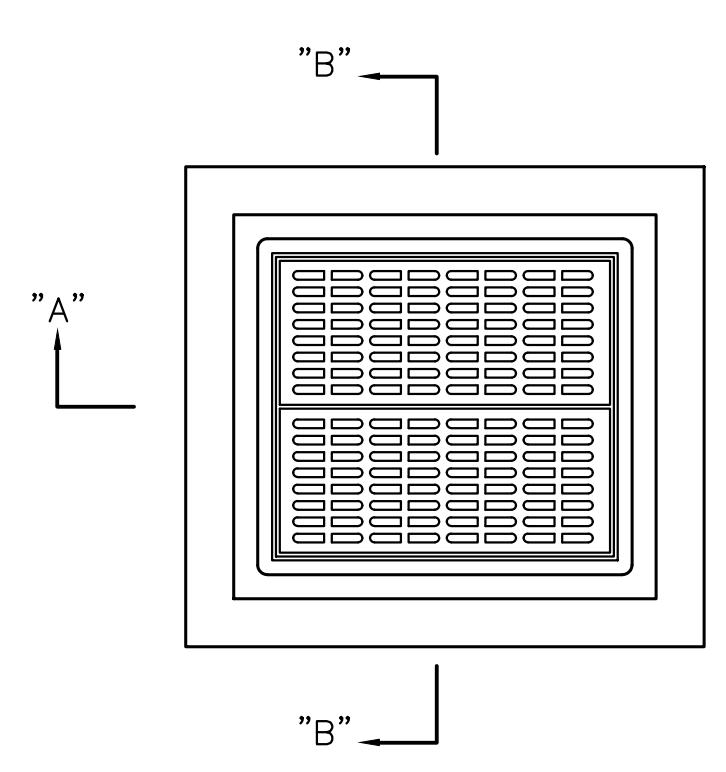
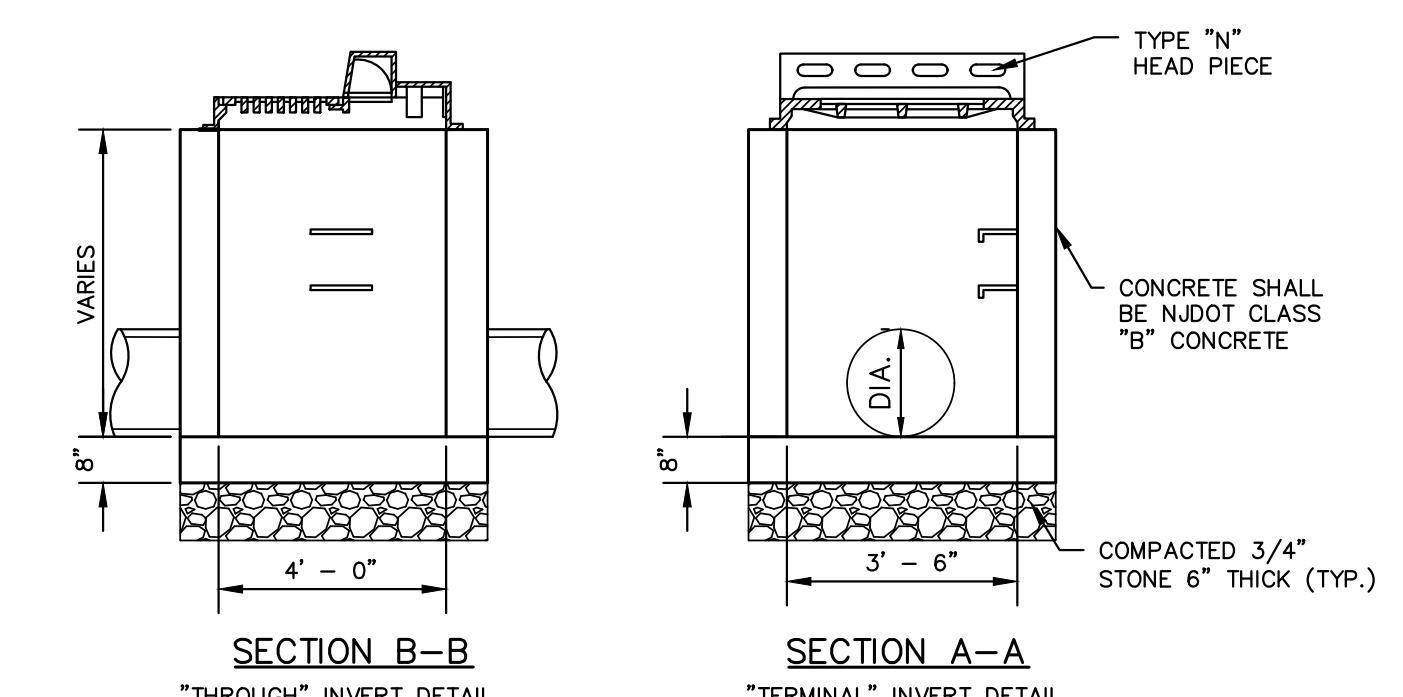
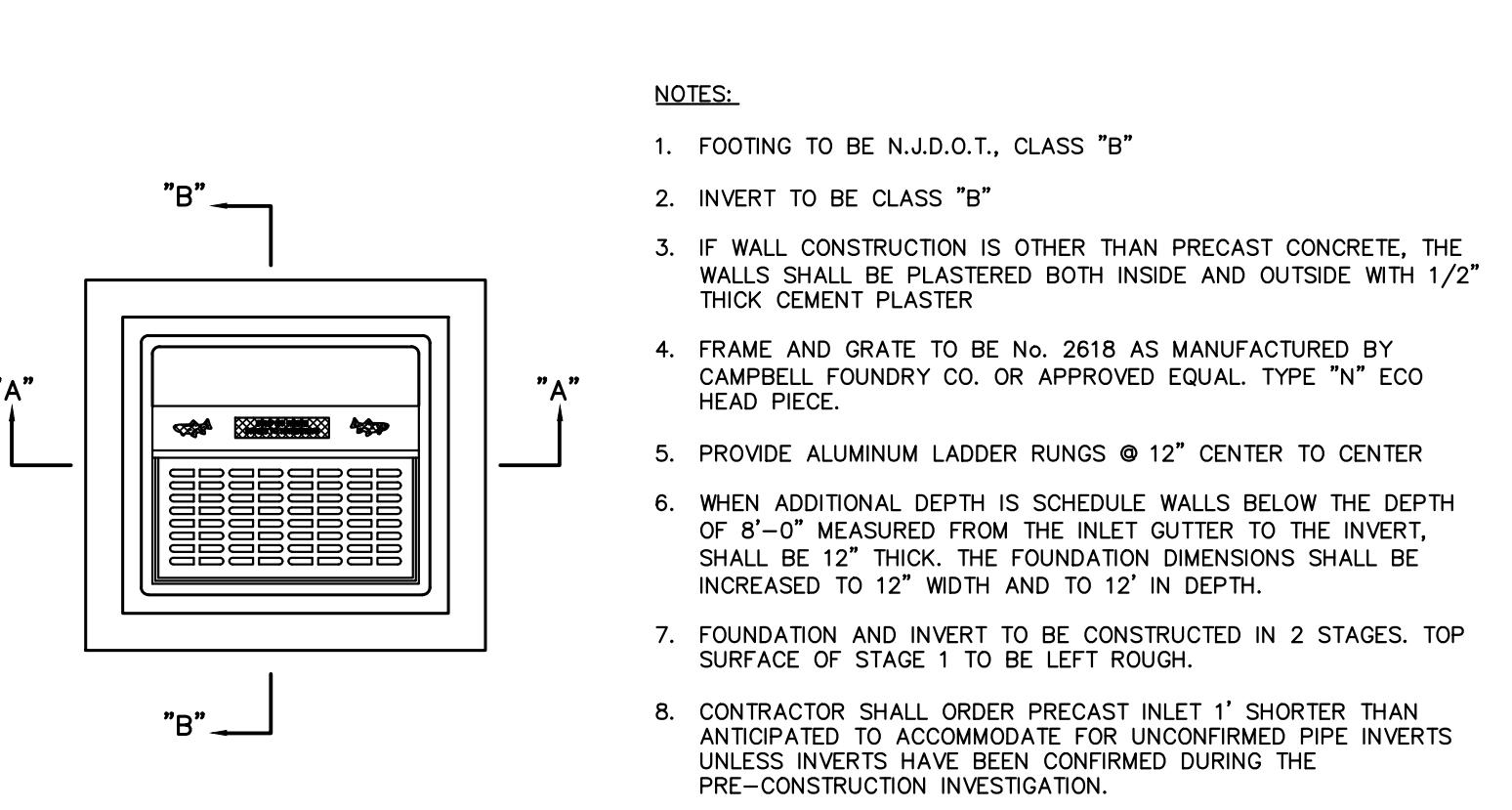
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WITH METAL







1 Plainsboro Road

Plainsboro, NJ 08536

T:817.423.1700 | F:800.934.9691

shepleybulfinch.com

OWNER

shepleybulfinch.com

ARCHITECT

shepleybulfinch.com

ENGINEER

shepleybulfinch.com

STAMP

shepleybulfinch.com

ISSUES

shepleybulfinch.com

10/18/2024 REVISED PER DRC COMMENTS

NO. DATE DESCRIPTION

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KEY PLAN

shepleybulfinch.com

PROJECT INFORMATION

shepleybulfinch.com

1 Plainsboro Road

Plainsboro, NJ 08536

JOB NO. 5261000

Bldg. 170, Lot 1-21

Township of Plainsboro

Middlesex County, New Jersey 08536

CONSTRUCTION

DETAILS -

STORMWATER

MANAGEMENT

shepleybulfinch.com

C224

DRAWING INFORMATION

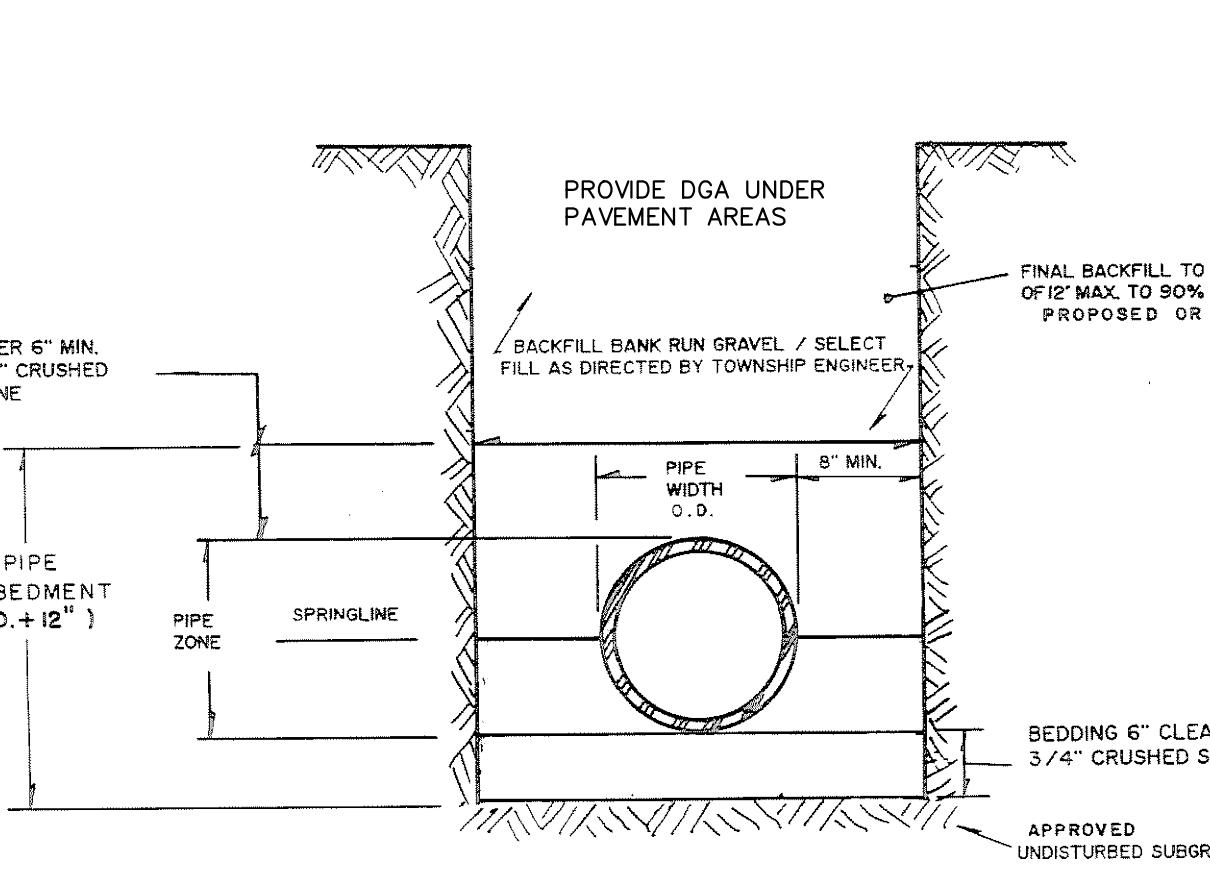
shepleybulfinch.com

07/31/2024

PACKAGE 0

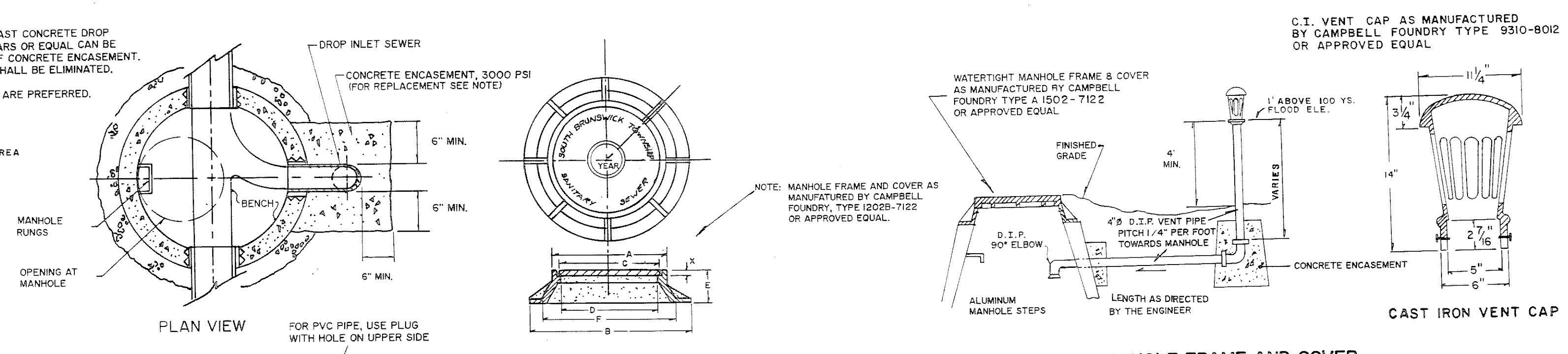
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PACKAGE 1

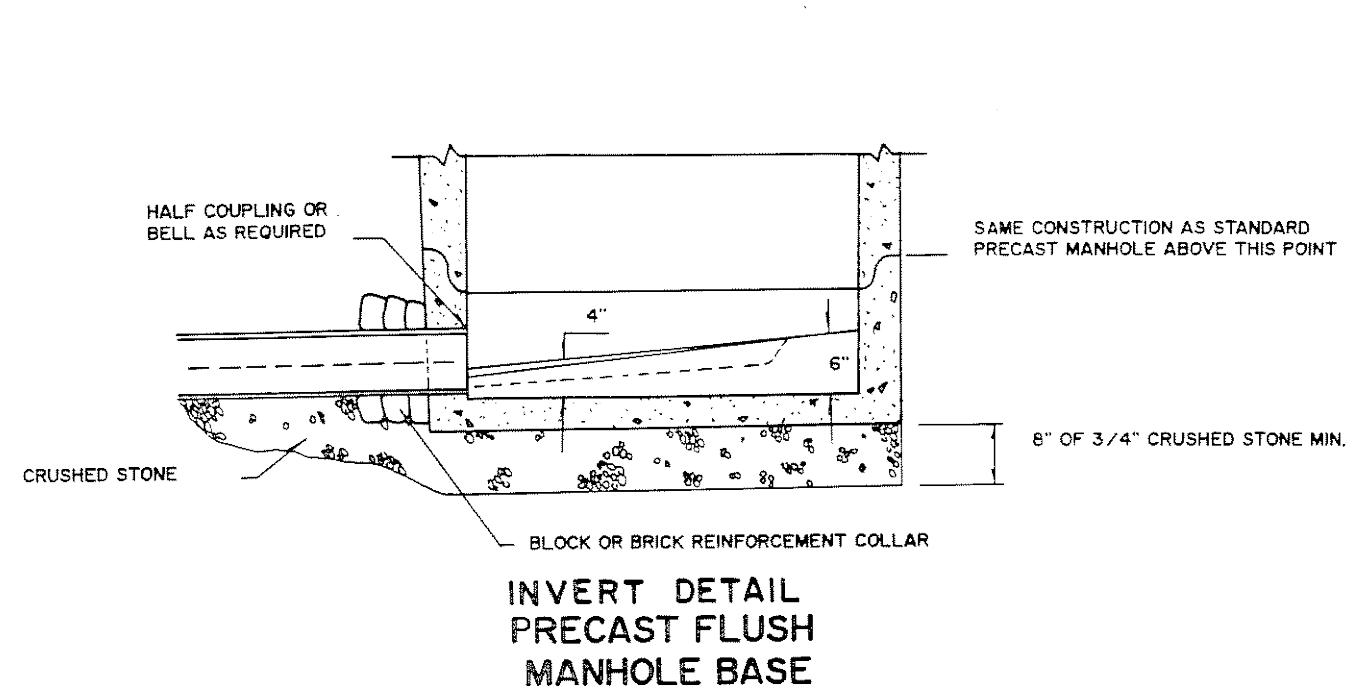


## TRENCH DETAIL

NOTE: 1) PIPE EMBEDMENT SHALL BE 3/4" CLEAN CRUSHED STONE  
2) WHERE SUBGRADE IS UNACCEPTABLE FOUNDATION SHALL BE REQUIRED AS SPECIFIED BY THE ENGINEER.  
3) TYP. CONCRETE FOUNDATION IS SPECIFIED BELOW.  
4) ENTIRE TRENCH WHICH IS TO BE BACKFILLED AS SPECIFIED  
5) FOR TYP. TRENCH DETAIL ABOVE,  
6) FOR WIDE TRENCHES (GREATER THAN 6" PIPE DIA.) SEE TYP. SUBDITCH TRENCH DETAIL BELOW.



## WATERTIGHT MANHOLE FRAME AND COVER

INVERT DETAIL  
PRECAST FLUSH  
MANHOLE BASE

NOTES:  
1. Minimum easement width 25 feet - ORD:175-59(G).  
2. Easements NOT running parallel with and adjacent to public improved road R-C-W shall be compacted, graded and stabilized so as to provide a minimum width of 18 feet whose surface is firm, unyielding and shall have a profile which is even and level. Easements which are not to be implemented as field conditions warrant or as directed by the Township Engineer.  
3. All sanitary sewer lines that are to be owned and operated by the Township shall be so noted on the plans.  
4. Sanitary sewer main shall be tested prior to operation according to industry standard as directed by the Township Engineer.  
5. Force mains shall be water tested at 1.5 times the maximum rated pump output pressure, or 100 PSIg which ever is greater.  
6. Minimum depth of sanitary sewer main, 4 ft.  
7. All commercial or industrial building units shall have a sanitary main connection accessible to the Township for wastewater collection and disposal.  
8. Non metallic/magnetic force main shall be installed with pipe locating tape.  
9. Landscape plantings shall be installed so as not to interfere with the operation of the sanitary sewer and appurtenances.  
10. Landscape plantings shall have a clean out installed in the R-W between the property line and the edge of pavement.  
11. All cleanouts shall have a clean out installed in the R-W between the property line and the edge of pavement.

12. Sewerage Pump Station:  
a) Proposals for individual pump stations serving isolated development shall be considered until it is demonstrated that a gravity system is PHYSICALLY infeasible. Individual pump stations shall be maintained by the development it serves.

b) The following submittals are required:

i) Site plan of pump station which shall include Building Construction plan, Engineering Pump and Impeller

data and Pump sizing calculations - NSPE curve or drawdown energy grade

line, pump and type of pump, performance and efficiency curve, system curve clearly indicating operating region and pump supplier.

ii) Four sets of shop drawings of all components proposed to be installed, which must be approved prior to construction.

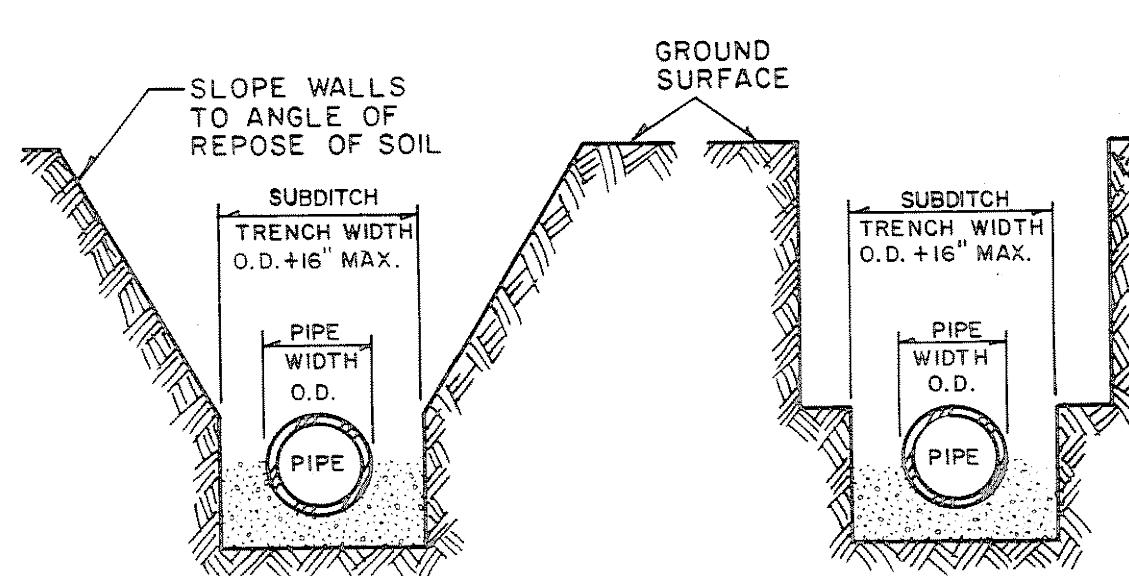
13. As-Built shall indicate location of sanitary sewer line in plan and profile views as well as elevation according to USGS data. The USGS Movement used as the Bench mark must be noted on the plans. Easements shall be shown on the As-Built plans with deed references (book, page, date of filing). Minimum list of information required on As-Builts are as follows:

i) Individual easement elevations; pipe diameters and material;

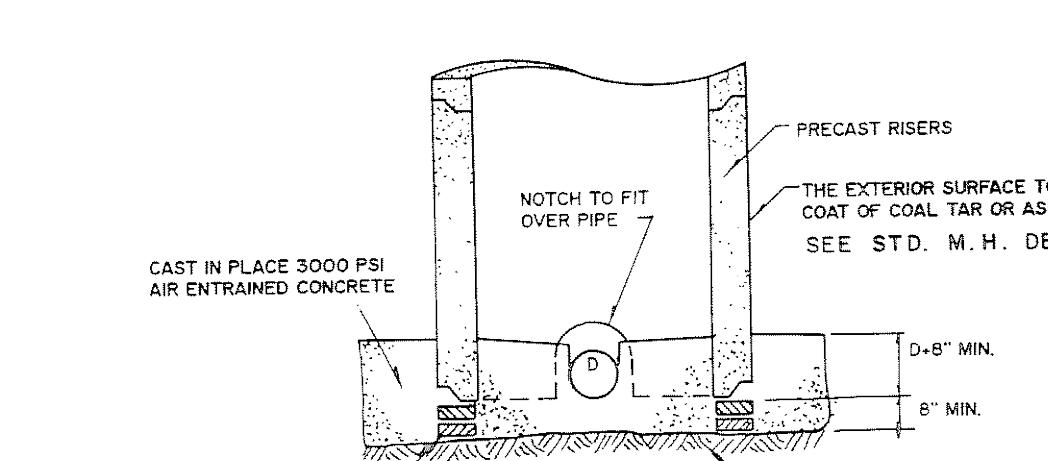
distances; grades; locations of lateral clean outs (by triangulation), profiles, utility crossings. These As-Built

plans shall be marked clearly and be easily readable be of the same scale as the construction plans, and shall be

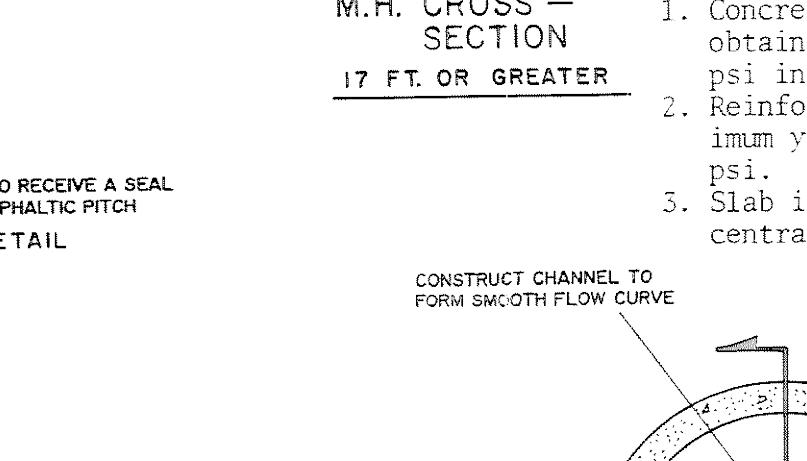
signed and sealed by a Licensed Professional Engineer.



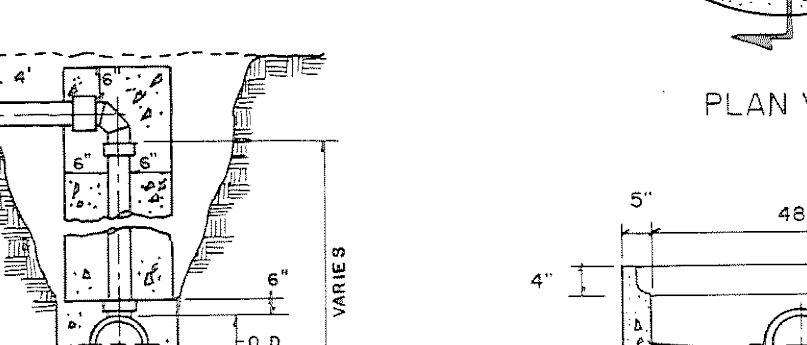
## TYP. SUBDITCH TRENCH DETAIL FOR WIDE TRENCHES

DOG HOUSE MANHOLE  
(FOR INSTALLING NEW MANHOLE ON ACTIVE SEWER)

NOTES:  
1. TOP OF PIPE SHALL BE NEATLY CUT AFTER CAST-IN-PLACE CONCRETE BASE AND BENCH HAS SET.  
2. FOR DETAIL OF UPPER PART OF MANHOLE, SEE "STANDARD MANHOLE" DETAIL.  
3. ACRYLIMIDE GEL GROUT INJECTION SHALL BE USED TO STOP LEAKS, IF ANY.



## TYPICAL RISER CONNECTION



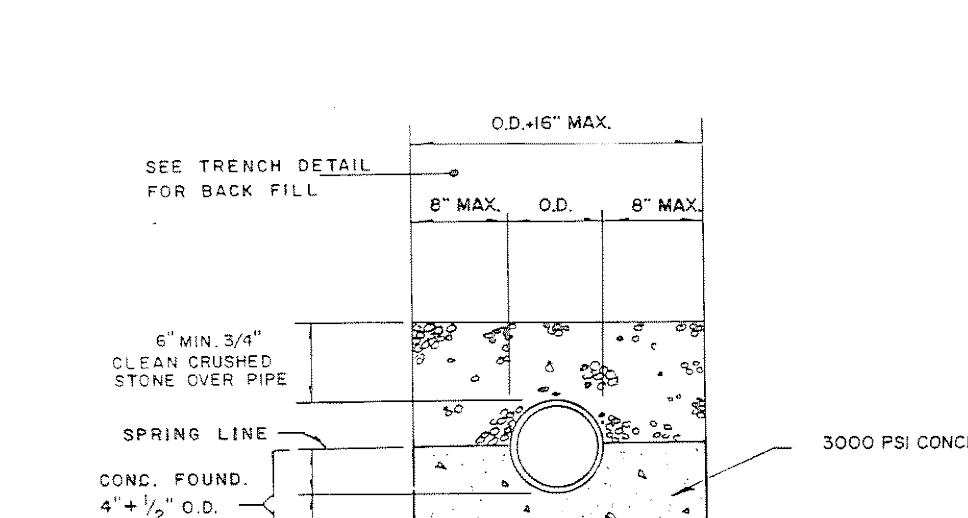
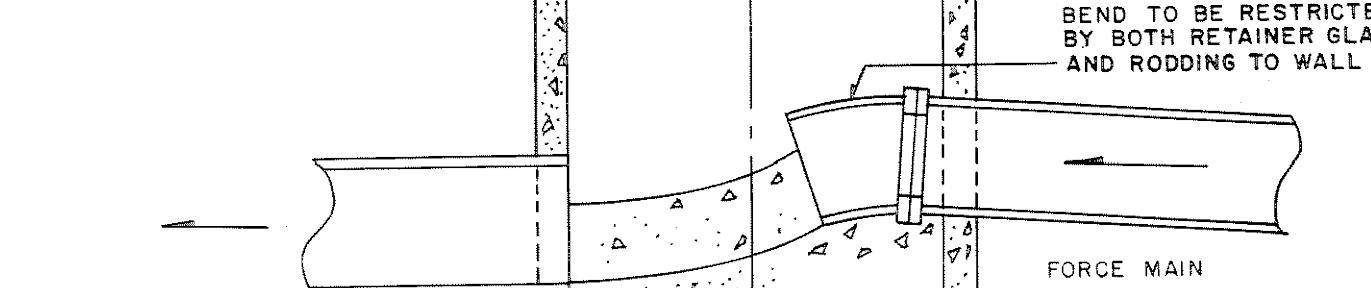
## STANDARD HOUSE CONNECTION

## SANITARY SEWER LATERAL NOTES

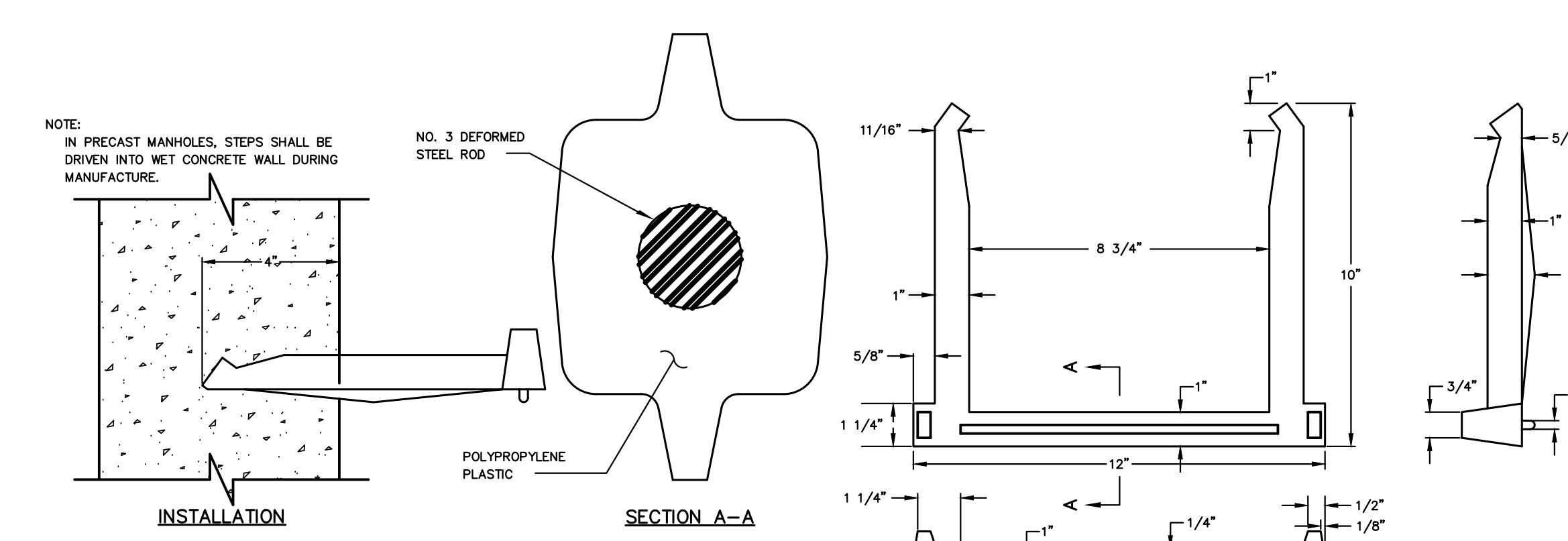
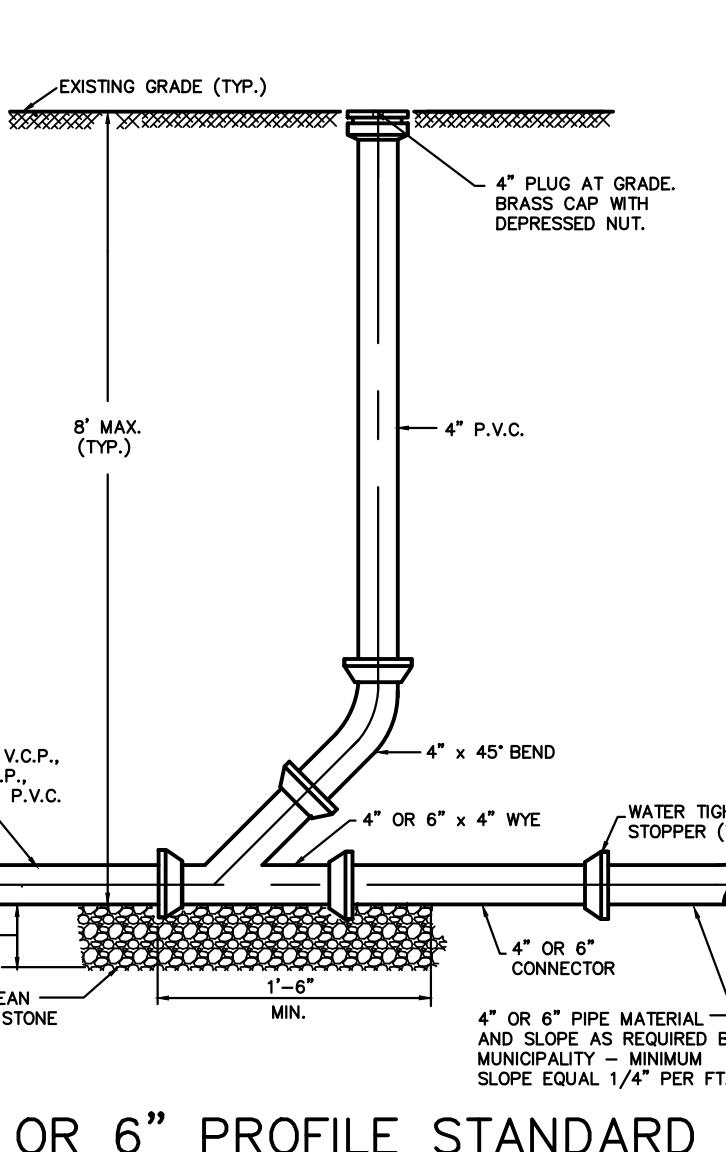
1. SANITARY SEWER LATERAL AND MAIN PIPE MATERIAL MUST BE PVC SDR-35 FOR GRAVITY SEWER SYSTEM.

2. SANITARY SEWER CLEANOUT AT GRADE SHALL HAVE A "BRASS" CAP WITH DEPRESSED NUT.

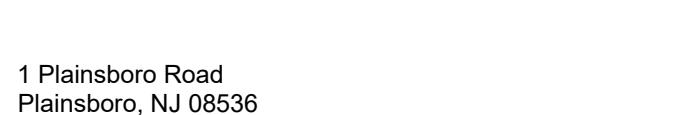
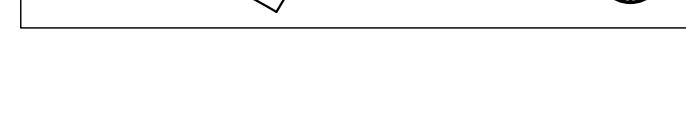
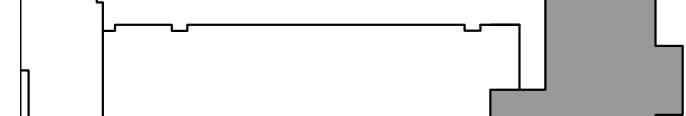
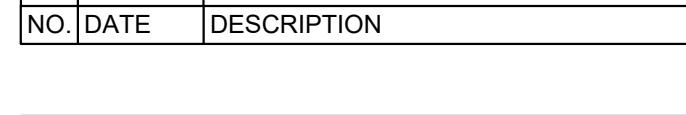
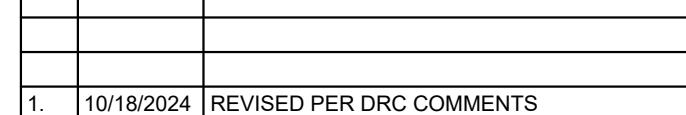
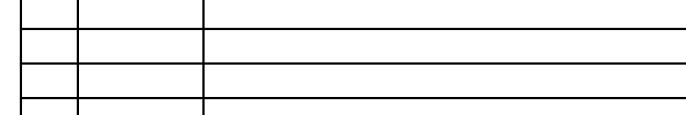
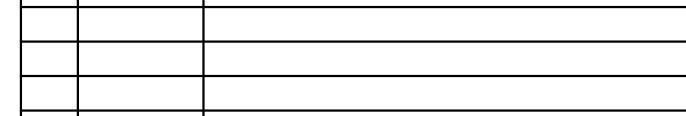
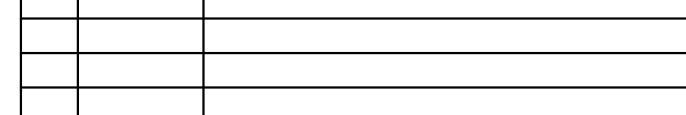
## TYP. CONCRETE FOUNDATION

INVERT DETAIL  
PRECAST MANHOLE BASEPRESSURE TO GRAVITY TRANSITION  
CHAMBER

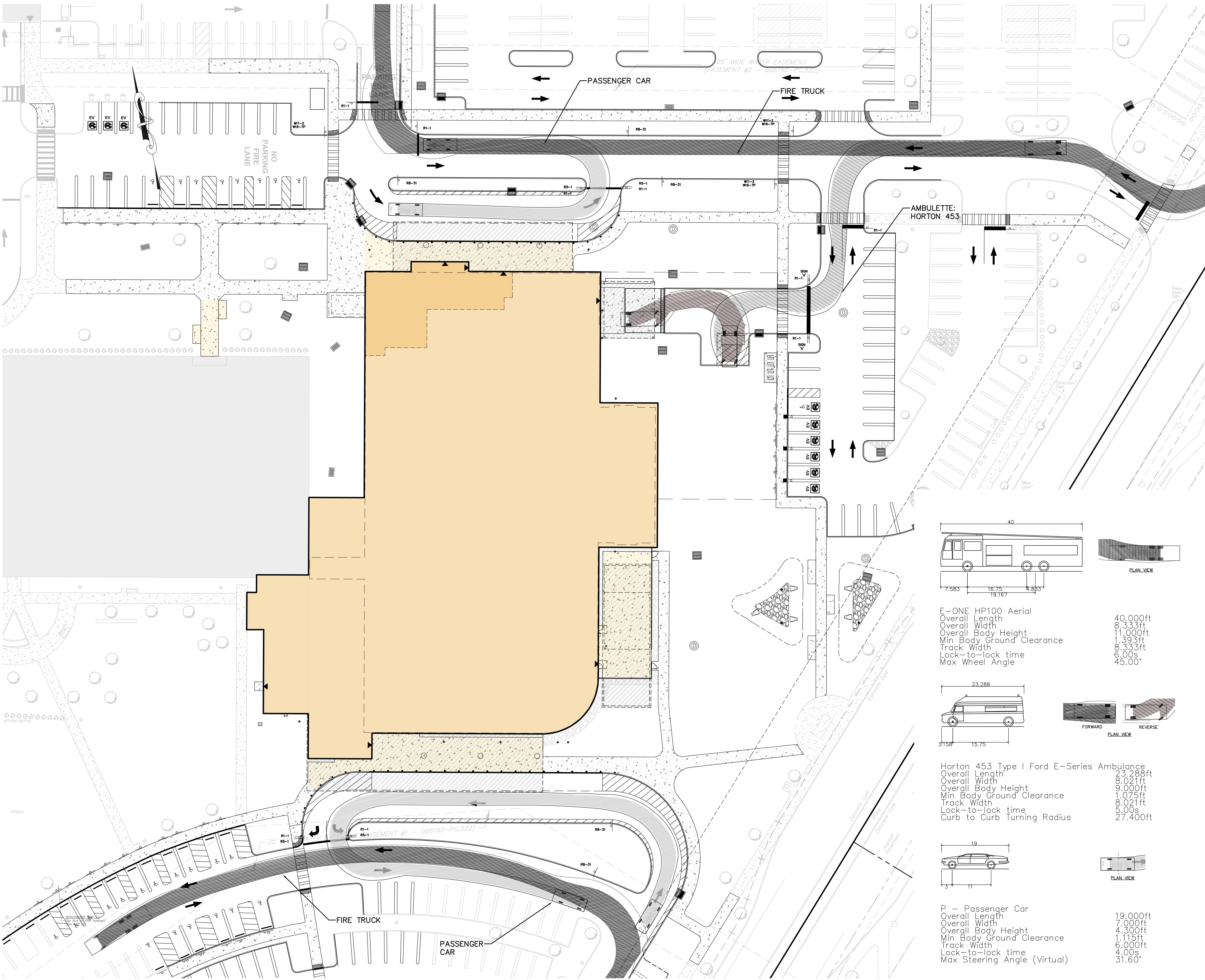
NOTE: (1) TRANSITION CHAMBER SHALL MEET ALL REQUIREMENTS OF STD. M.H.

POLYPROPYLENE MANHOLE STEPS  
N.T.S.4" OR 6" PROFILE STANDARD  
CLEANOUT DETAIL

NOT TO SCALE







1 Plainsboro Road  
Plainsboro, NJ 08536

# SHEPLEY BULFINCH

99 Chauncy Street 4th Floor  
Boston, MA 02111  
T:617.423.1700 | F:800.934.9691  
[shepleybulfinch.com](http://shepleybulfinch.com)

The logo for FPA (Financial Protection Agency) is displayed. It features the letters 'FPA' in a large, bold, dark blue sans-serif font. A green right-angled triangle is positioned at the bottom right of the 'P'. To the right of the logo, the word 'Corporate' is written in a smaller, dark blue font. Below 'Corporate', the address '1800 Rt 34, Suite 100, Wall, New Jersey 07760' is listed, followed by the phone number '732.312.1234'.

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**ASSOCIATES**  
New Jersey ▲ New York ▲ Pennsylvania ▲ Georgia

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**ANDREW L. FRENCH, P.E.**  
PROFESSIONAL ENGINEER, N.J. LIC. No. 42894

A black and white line drawing of a coastal profile. The left side shows a steep, stepped cliff face. The middle section is a flat, sandy beach. The right side shows a dark, irregular area representing vegetation or a different terrain type. A compass rose is located in the bottom right corner.

# PENN MEDICINE PRINCETON HEALTH CCIC

1 Plainsboro Road  
Plainsboro, NJ 08536  
JOB NO: 5267.003  
Block 1701 Lot 3.01  
Township of Plainsboro  
Middlesex County, New Jersey 08536

# **CIRCULATION PLAN AND DETAILS**

# C227