

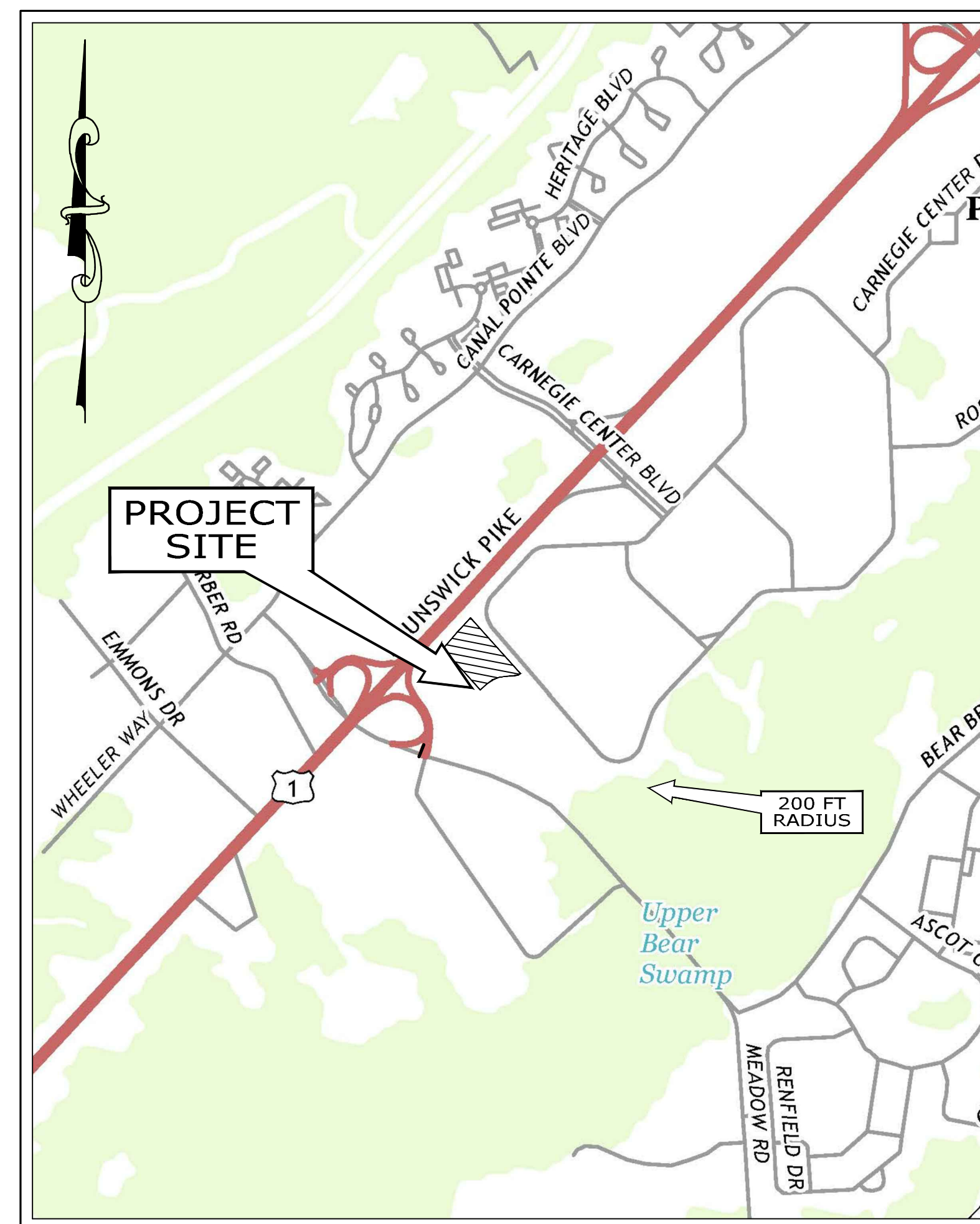
AMENDED FINAL MAJOR SITE PLAN FOR PHASE 1 - HOTEL AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT

BLOCK 9, LOTS 12.01 & 12.011

TAX MAP SHEET 2, DATED MAY 16, 1998, REV. MARCH 2005

WEST WINDSOR TOWNSHIP MERCER COUNTY, NEW JERSEY

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	COVER SHEET
2	ZONING CHART & GENERAL NOTES
3	CONSTRAINTS MAP
4	OVERALL PHASING, SITE PLAN & GRADING PLAN
5	LAYOUT AND DIMENSIONING PLAN
6	GRADING AND UTILITIES PLAN
7	PROFILES
8	TITLE 39 PLAN
9	SOIL EROSION & SEDIMENT CONTROL PLAN
10A-10B	SOIL EROSION AND SEDIMENT CONTROL NOTES & DETAILS
11	WB-50 TRUCK TURNING PLAN
12	GARBAGE TRUCK TURNING PLAN
13	FIRE TRUCK TURNING PLAN
14A-14B	CONSTRUCTION DETAILS
15A-15B	WEST WINDSOR STANDARD SANITARY SEWER DETAILS



KEY MAP
SCALE: 1" = 1,000'
SCALE: 1" = 1,000'
0 1,000 2,000 4,000 ft.

- PRELIMINARY AND FINAL MAJOR SITE PLAN OF PROPOSED HOTEL BLOCK 9 LOT 12.01 AND 12.011, ZONE PMN-1

DATE: AUGUST 31, 2022

SCALE: 1"=30'

OWNER/APPLICANT: THE BRIAD GROUP
ADDRESS: 78 OKNER PARKWAY
LIVINGSTON, NJ 07039

SITE PLAN CONTROL NO. _____

- I CONSENT TO THE FILING OF THIS SITE PLAN WITH THE PLANNING BOARD OF WEST WINDSOR TOWNSHIP.

OWNER _____ DATE _____

- TO BE SIGNED BEFORE ISSUANCE OF A BUILDING PERMIT AND INCORPORATED ONLY ON A FINAL SITE PLAN (AS APPLICABLE):

I HEREBY CERTIFY THAT A BOND HAS BEEN POSTED FOR ALL THE REQUIRED IMPROVEMENTS IN COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

TOWNSHIP CLERK _____ DATE _____

- TO BE INCORPORATED ONLY ON FINAL SITE PLAN AND SIGNED PRIOR TO ISSUANCE OF A BUILDING PERMIT:

VERIFICATION THAT PAYMENT OF MUNICIPAL TAXES OR ASSESSMENTS IS CURRENT

TOWNSHIP CLERK _____ DATE _____

- APPROVED BY THE PLANNING BOARD (PRELIMINARY APPROVAL DATE) _____

(FINAL APPROVAL DATE) _____

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

- APPROVED BY THE HEALTH OFFICER

CHAIRMAN _____ DATE _____

- EXPIRATION OF APPROVAL (PRELIMINARY - 3YEARS; FINAL - 2 YEARS)

DATE OF EXPIRATION (WITHOUT EXTENSIONS) _____

NO.	REVISION	DATE
1	REV PER TRC COMMENTS	11/15/22
2	REV PER 2nd ROUND TRC COMMENTS	12/15/22
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PROJ. 080823-02-001
SHEET 1 OF 1
DATE 11/15/22

PROJ. 080823-02-001
SHEET 1 OF 1
DATE 11/15/22

Bowman

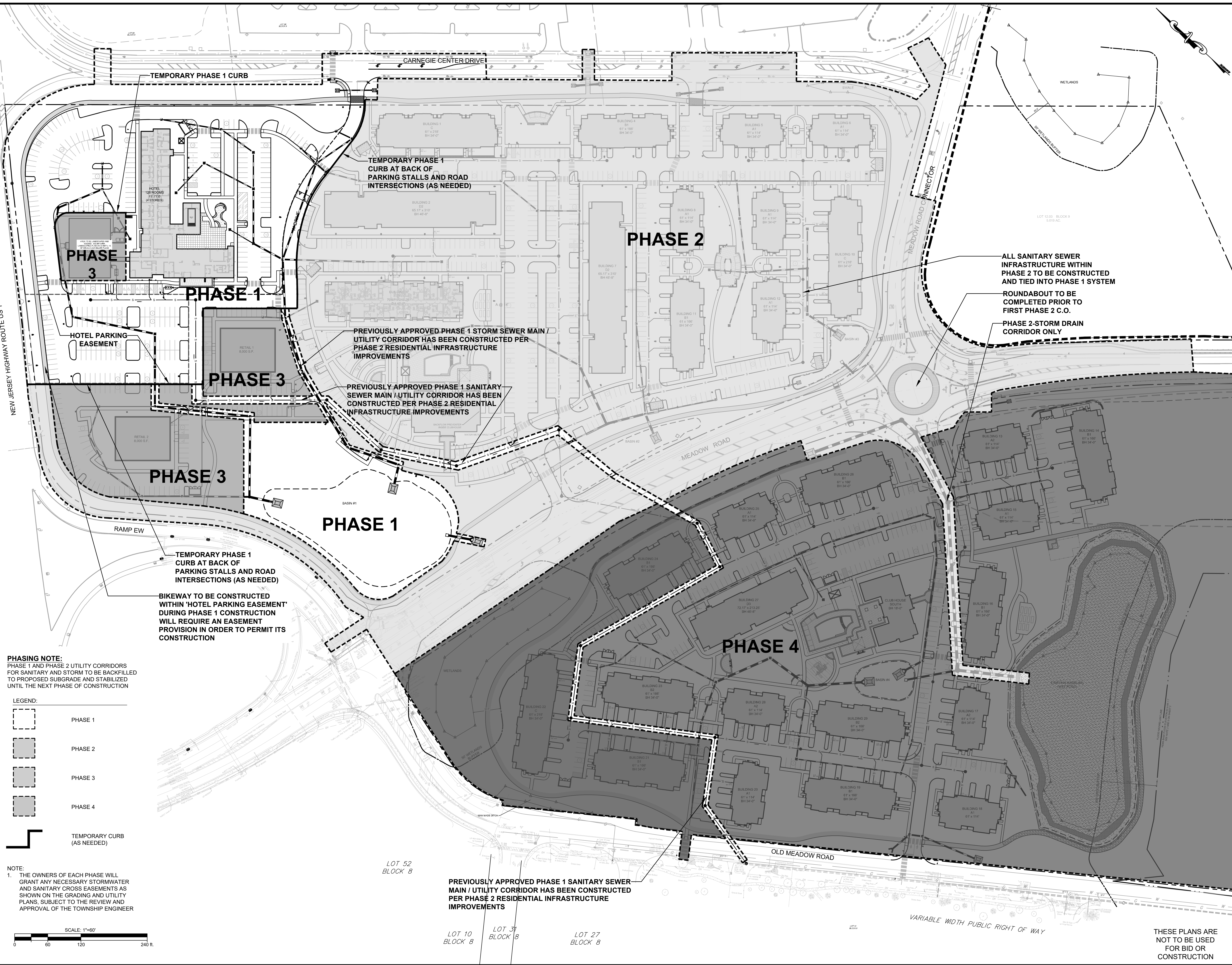
Bowman Consulting Group, Ltd.
Professional Engineer No. 24624-0001
James M. Ward

AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
COVER SHEET

SHEET No.
1
OF

THESE PLANS ARE
NOT TO BE USED
FOR BID OR
CONSTRUCTION

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ALL SANITARY SEWER INFRASTRUCTURE WITHIN PHASE 2 TO BE CONSTRUCTED AND TIED INTO PHASE 1 SYSTEM

ROUNDABOUT TO BE COMPLETED PRIOR TO FIRST PHASE 2 C.O.

PHASE 2-STORM DRAIN CORRIDOR ONLY

PREVIOUSLY APPROVED PHASE 1 STORM SEWER MAIN / UTILITY CORRIDOR HAS BEEN CONSTRUCTED PER PHASE 2 RESIDENTIAL INFRASTRUCTURE IMPROVEMENTS

PREVIOUSLY APPROVED PHASE 1 SANITARY SEWER MAIN / UTILITY CORRIDOR HAS BEEN CONSTRUCTED PER PHASE 2 RESIDENTIAL INFRASTRUCTURE IMPROVEMENTS

PREVIOUSLY APPROVED PHASE 1 SANITARY SEWER MAIN / UTILITY CORRIDOR HAS BEEN CONSTRUCTED PER PHASE 2 RESIDENTIAL INFRASTRUCTURE IMPROVEMENTS

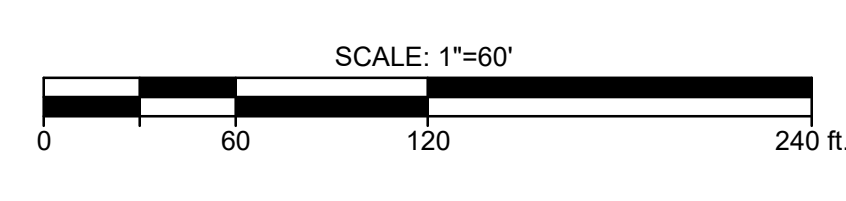
BIKWAY TO BE CONSTRUCTED WITHIN 'HOTEL PARKING EASEMENT' DURING PHASE 1 CONSTRUCTION WILL REQUIRE AN EASEMENT PROVISION IN ORDER TO PERMIT ITS CONSTRUCTION

PHASING NOTE:
PHASE 1 AND PHASE 2 UTILITY CORRIDORS FOR SANITARY AND STORM TO BE BACKFILLED TO PROPOSED SUBGRADE AND STABILIZED UNTIL THE NEXT PHASE OF CONSTRUCTION

LEGEND:

- PHASE 1 (dashed line)
- PHASE 2 (light gray fill)
- PHASE 3 (medium gray fill)
- PHASE 4 (dark gray fill)
- TEMPORARY CURB (AS NEEDED) (thick dashed line)

NOTE:
1. THE OWNERS OF EACH PHASE WILL GRANT ANY NECESSARY STORMWATER AND SANITARY CROSS EASEMENTS AS SHOWN ON THE GRADING AND UTILITY PLANS, SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWNSHIP ENGINEER



1	DATE	08/08/23
2	REVISION	
3	DATE	11/15/22
4	REVISION	
5	DATE	12/15/22
6	REVISION	

PROJ: 080823-02-001
CADD: JMV

Bowman

Bowman Consulting Group, Ltd.
Phone: 732-665-6500
Fax: 732-665-5011
www.bowmanconsulting.com

JAMES M. WARD, P.E., Professional Engineer, No. 24GE0434400

AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT

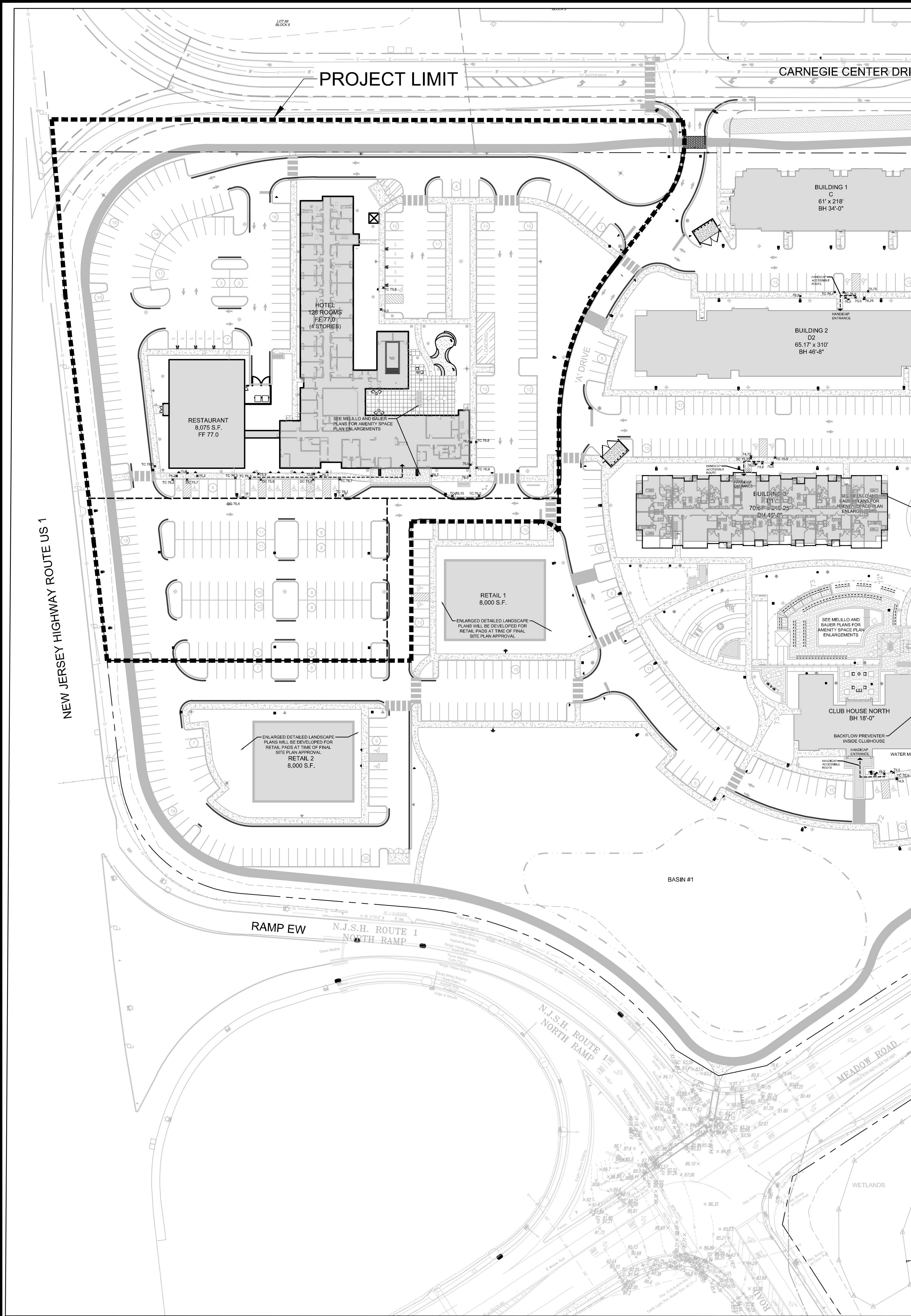
OVERALL PHASING PLAN

TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY

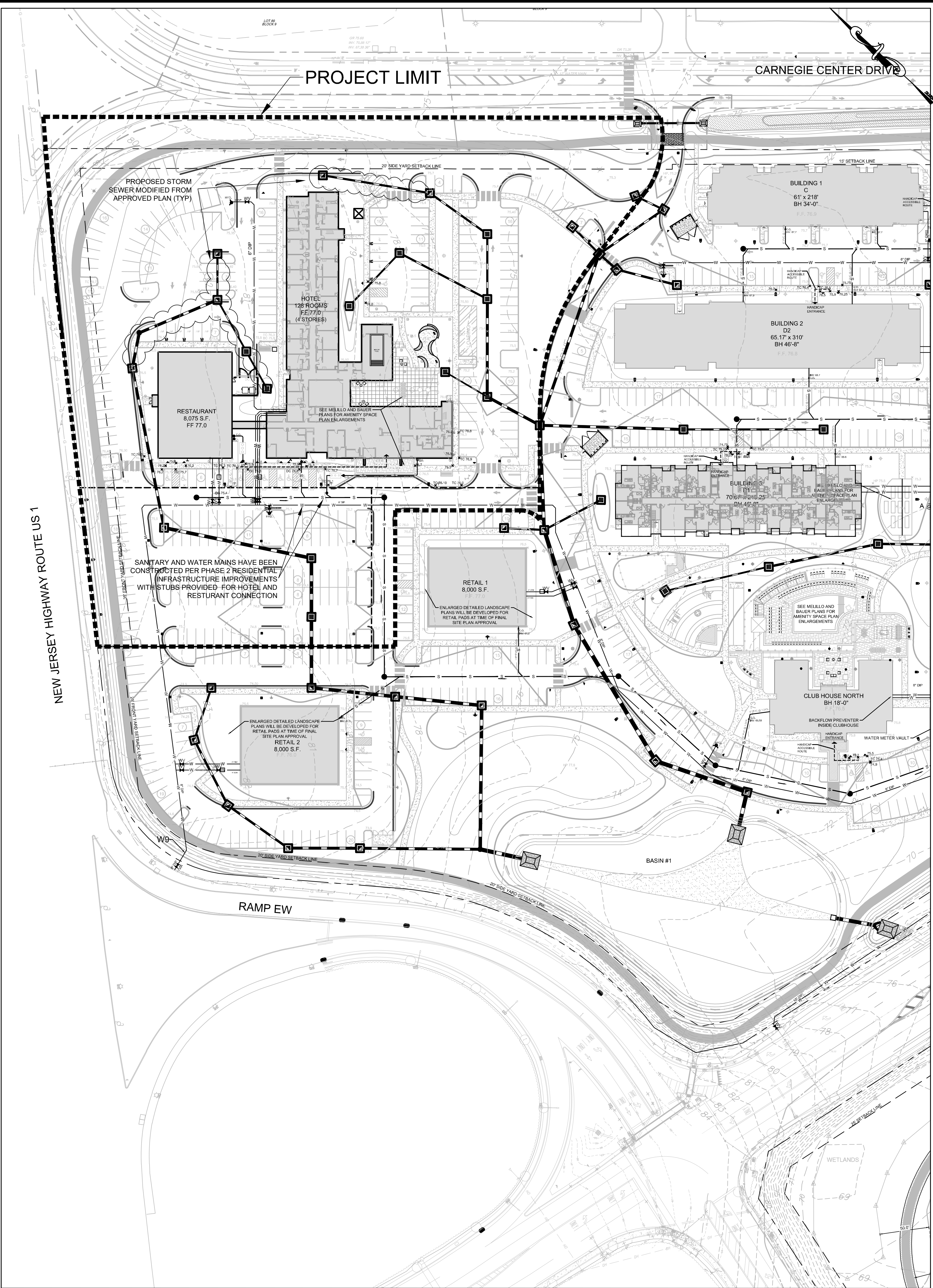
SHEET No. **4** OF **A**

THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

V:\080823-02-001-West Windsor\080823-02-001-ENG - 080823-02-001-West Windsor-Broad Hobart\Engineering\Plan\Site-Plan\Site-Plan.dwg 12/14/22 08:28:24PM, Jace, LAYOUT: SHT-04-OSP
 080823-02-001-West Windsor\080823-02-001-ENG - 080823-02-001-West Windsor-Broad Hobart\Engineering\Plan\Site-Plan\Site-Plan.dwg 12/14/22 08:28:24PM, Jace, LAYOUT: SHT-04-OSP
 080823-02-001-West Windsor\080823-02-001-ENG - 080823-02-001-West Windsor-Broad Hobart\Engineering\Plan\Site-Plan\Site-Plan.dwg 12/14/22 08:28:24PM, Jace, LAYOUT: SHT-04-OSP



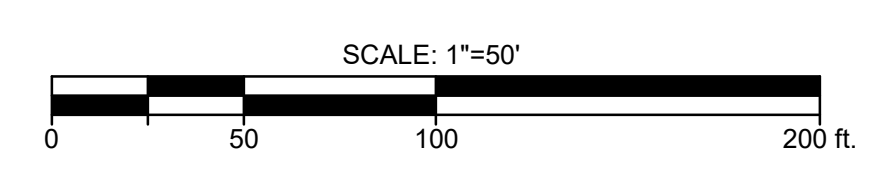
SITE PLAN



GRADING PLAN

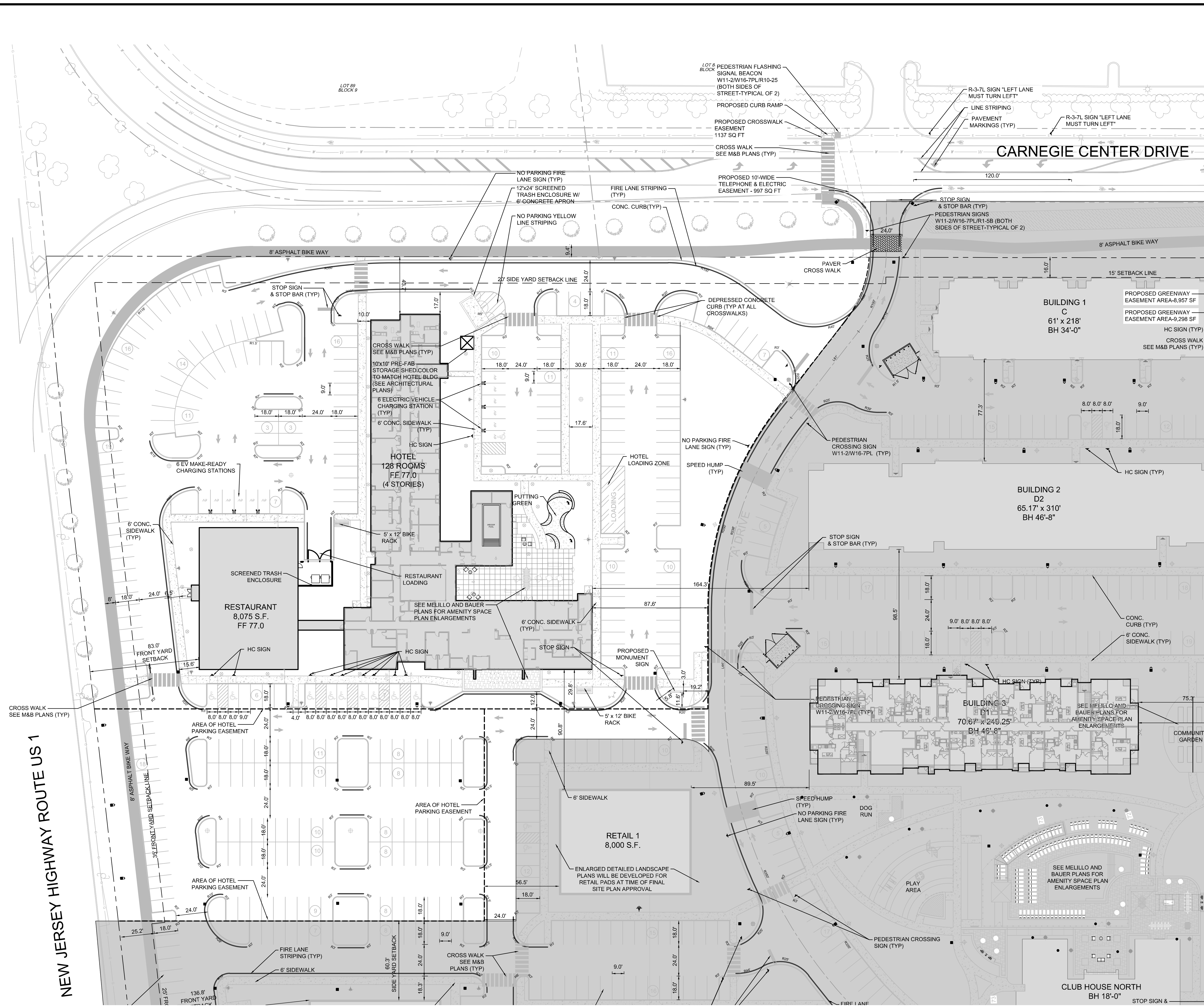
NOTE:
 "OFF-SITE" STORMWATER AND SANITARY SEWER INFRASTRUCTURE CONTAINED WITHIN PHASE 1 IS PREVIOUSLY APPROVED AND IS CURRENTLY UNDER CONSTRUCTION AS PART OF THE PHASE 2 RESIDENTIAL INFRASTRUCTURE IMPROVEMENTS. THE AMENDED PLAN PROPOSES NO CHANGE TO UTILITY INFRASTRUCTURE PREVIOUSLY APPROVED BEYOND THE LIMITS SHOWN.

NOTE:
 1. UPON APPROVAL OF AN APPLICATION TO THE TOWNSHIP OF WEST WINDSOR, AND PURSUANT TO N.J.S.A. 39:5A-1, THE PROVISIONS OF SUBTITLE 1, TITLE 39 OF THE REVISED STATUTES OF THE STATE OF NEW JERSEY SHALL BE MADE APPLICABLE TO THE SEMI-PUBLIC ROADWAYS, DRIVEWAYS, PARKING AREAS, AND OTHER AREAS USED FOR VEHICULAR TRAFFIC ON THE PROPERTY SHOWN HEREON AND SHALL BE ENFORCED BY THE WEST WINDSOR POLICE DEPARTMENT, AND/OR ANY OTHER AUTHORIZED POLICE ENFORCEMENT AGENCY.

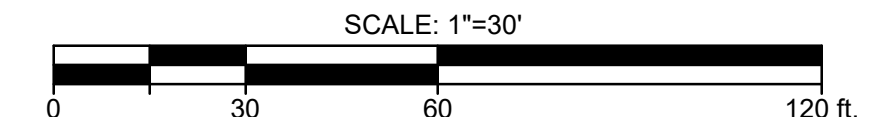


THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

<p>Bowman</p> <p>Professional Engineers, Inc.</p> <p>246 E. 10th Street Philadelphia, PA 19106 Phone: 732-462-5001 Fax: 732-462-5011 www.bowmaneng.com</p>	<p>James M. Ward, P.E.</p> <p>Professional Engineer, No. 246E0434400</p>																																	
<p>AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT OVERALL SITE PLAN & GRADING PLAN BLOCK 6, LOTS 12, 01, and 12, 011 TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>REV PER TRC COMMENTS</td> <td>11/15/22</td> </tr> <tr> <td>2</td> <td>REV PER 2nd ROUND TRC COMMENTS</td> <td>12/15/22</td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> </tr> </table>	NO.	REVISION	DATE	1	REV PER TRC COMMENTS	11/15/22	2	REV PER 2nd ROUND TRC COMMENTS	12/15/22	3			4			5			6			7			8			9			10		
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- NOTE:
1. ROAD 'A' CENTERLINE ALIGNMENT COMPLIES WITH RSIS PROVISIONS WITH 100' MINIMUM RADIUS AND 50' TANGENT LENGTHS FOR REVERSE CURVES
 2. RADIO SIGNAL AMPLIFICATION FOR THE BUILDING TO BE INSTALLED IF REQUIRED BY THE CONSTRUCTION CODE OFFICIAL
 3. LOCK BOX AND FIRE DEPARTMENT CONNECTION TO BE LOCATED ON THE FRONT OF THE BUILDING



PROJ: 080823-02-001	DATE: 08/08/23
CLIENT: WEST WINDSOR TWP	DATE: 11/15/22
DESIGNER: JAMES M. WARD	DATE: 11/15/22
CHECKER: JAMES M. WARD	DATE: 11/15/22
APPROVER: JAMES M. WARD	DATE: 11/15/22
REVISION: 1	REV PER: 2nd ROUND TRC COMMENTS
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Bowman Consulting Group, Ltd.
Phone: 732-662-6500
Fax: 732-662-5011
www.bowmanconsulting.com
NJ Certificate of Professional Engineer No. 24GE0434400
JAMES M. WARD, N.J. Professional Engineer

AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
LAYOUT & DIMENSIONING PLAN
TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY
BLOCK 6, LOTS 12, 01, AND 12, 011

SHEET No. **5** OF

THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

SOIL BORING TABLE

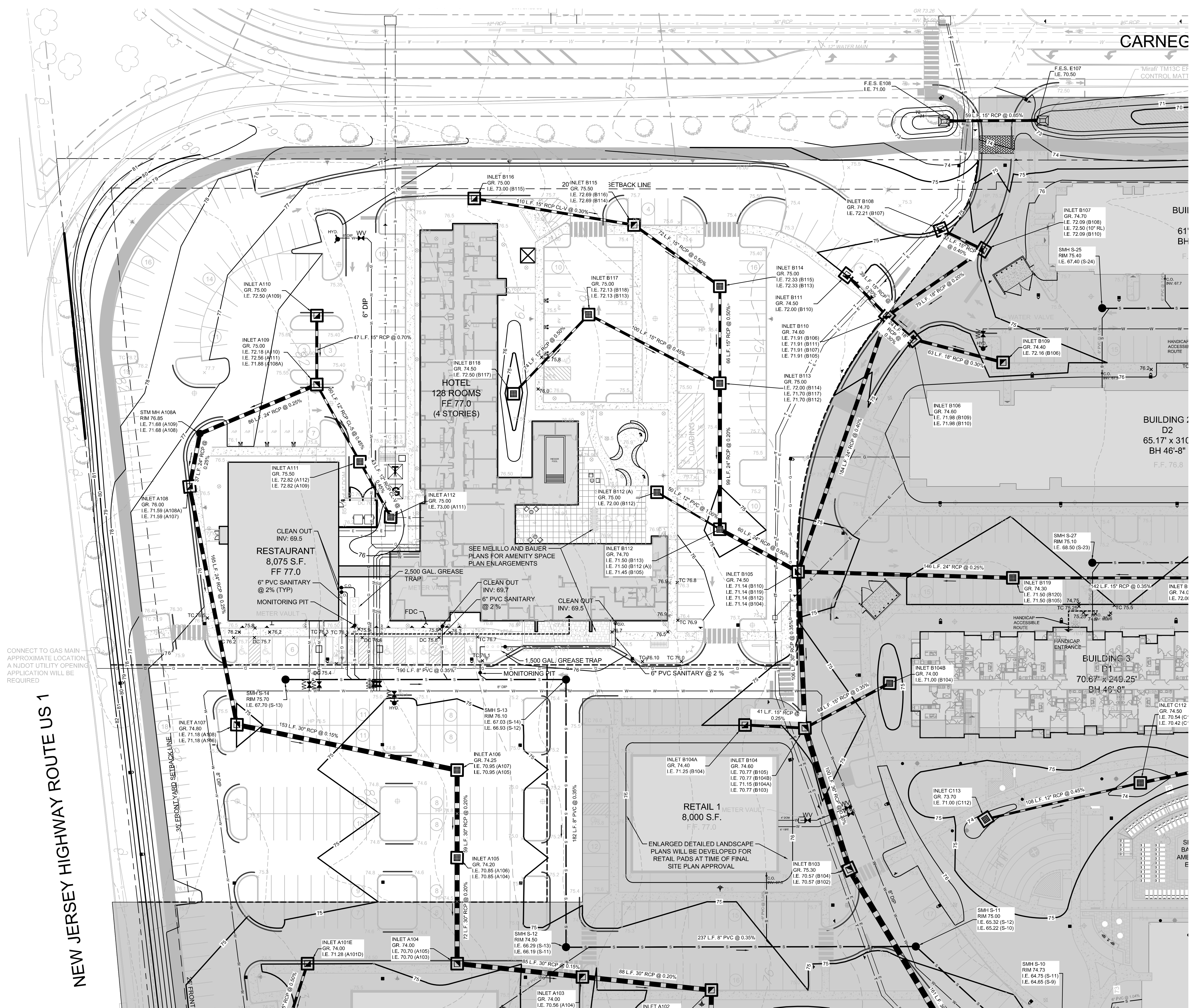
BORING #	GROUND ELEV.	GROUND WATER ENCOUNTERED
B-101	79.5	12.5 FT.
B-102	79.5	12 FT.
B-103	79.5	12 FT.
B-104	82.5	13 FT.
B-105	82.5	16 FT.
B-106	79.0	9 FT.
B-107	78.5	6 FT.
B-108	78.5	7.5 FT.

TEST PIT TABLE

TEST PIT #	GROUND ELEV.	GROUND WATER ENCOUNTERED
TP-1	72.0	7 FT.
TP-2	71.0	6 FT.
TP-3	73.0	7.5 FT.
TP-101	80.5	N/E
TP-102	80.5	9.5 FT.
TP-103	82.0	13.5 FT.
TP-104	84.0	12 FT.
TP-105	79.0	7 FT.
TP-106	80.5	9.5 FT.
TP-107	79.0	5 FT.
TP-108	77.0	6.5 FT.
TP-109	77.5	5.5 FT.
TP-110	77.0	5 FT.

TEST PIT TABLE

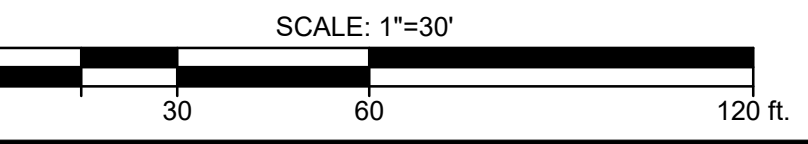
TEST PIT #	GROUND ELEV.	GROUND WATER ENCOUNTERED
TP-201	73.0	6 FT.
TP-202	72.0	6 FT.
TP-203	71.0	9 FT.
TP-204	68.0	8 FT.
TP-205	72.0	11 FT.
TP-206	72.0	9 FT.
TP-207	71.0	7.5 FT.
TP-208	69.0	7 FT.
TP-209	68.0	7 FT.
TP-210	68.0	7 FT.
TP-211	69.0	5 FT.
TP-212	70.0	5.5 FT.
TP-213	71.5	5 FT.
TP-214	71.5	5.5 FT.
TP-215	73.5	4 FT.
TP-216	74.0	5 FT.
TP-218	69.5	5 FT.
TP-219	69.0	4 FT.
TP-221	67.0	6 FT.
TP-222	67.0	5.5 FT.
TP-223	68.0	7 FT.
TP-224	69.0	7.5 FT.
TP-225	67.0	7 FT.
TP-226	70.5	6.5 FT.
TP-228	70.5	6.5 FT.
TP-229	69.0	6.5 FT.
TP-230	67.5	7 FT.
TP-231	73.0	13 FT.
TP-232	67.0	6 FT.
TP-233	74.0	N/E
TP-234	71.5	11 FT.
TP-235	73.0	12 FT.
TP-236	73.0	13.5 FT.
TP-237	67.0	9 FT.
TP-238	68.5	7.5 FT.
TP-239	72.5	7 FT.
TP-240	71.5	8 FT.
TP-241	69.5	5.0 FT.



NEW JERSEY HIGHWAY ROUTE US 1

NOTE: "OFF-SITE" STORMWATER AND SANITARY SEWER INFRASTRUCTURE CONTAINED WITHIN PHASE 1 IS PREVIOUSLY APPROVED.

- NOTES:
1. DEP PERMITS FOR DEWATERING WILL BE SECURED (IF APPLICABLE)
 2. THE OWNERS OF EACH PHASE WILL GRANT ANY NECESSARY STORM WATER AND SANITARY SEWER CROSS EASEMENTS AS SHOWN ON THE GRADING AND UTILITIES PLAN, SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWNSHIP ENGINEER
 3. GREASE TRAPS AT THE HOTEL WILL COMPLY WITH TWP. ORDINANCE 133-22.
 4. SANITARY SEWERS SHALL BE INSTALLED PER TWP. ORDINANCE SECTION 200-91 G
 5. THE FOLLOWING SANITARY SEWER TESTING IS TO BE SUCCESSFULLY PERFORMED PRIOR TO APPROVAL FROM WEST WINDSOR TOWNSHIP:
 - AIR PRESSURE TEST
 - MANDREL TEST
 - VACUUM TEST OF ALL MANHOLES
 - WATER JETTING AND VIDEO OF ALL SEWER MAINS
 6. FIREFIGHTING WATER SOURCES WILL BE ESTABLISHED PRIOR TO ANY COMBUSTIBLE CONSTRUCTION MATERIALS BEING PLACED ON SITE, EITHER THROUGH COMPLETING THE FIRE HYDRANT SYSTEM FIRST OR PLACING DEDICATED WATER CONTAINERS ON SITE FOR FIREFIGHTING WATER.



THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

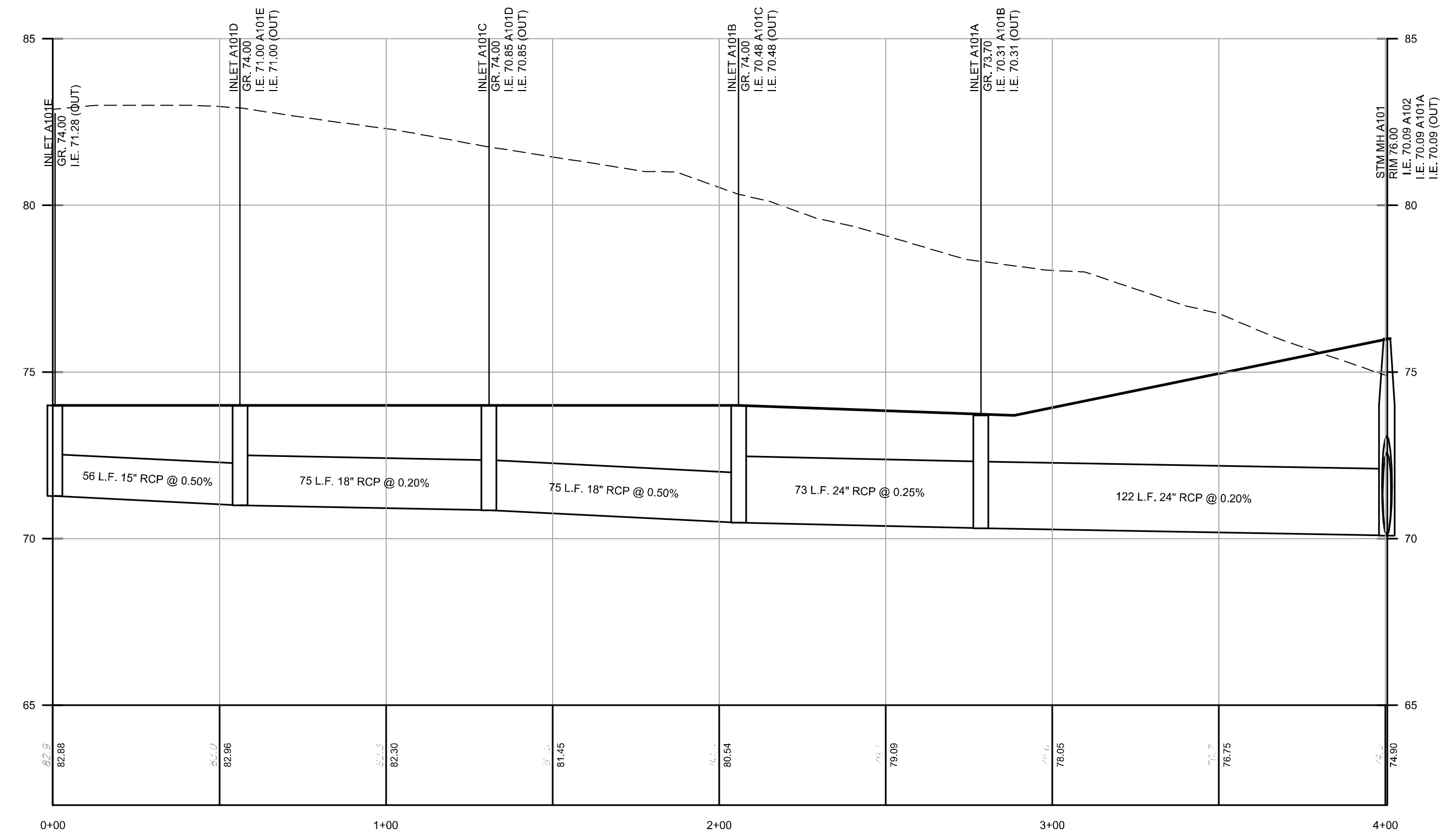
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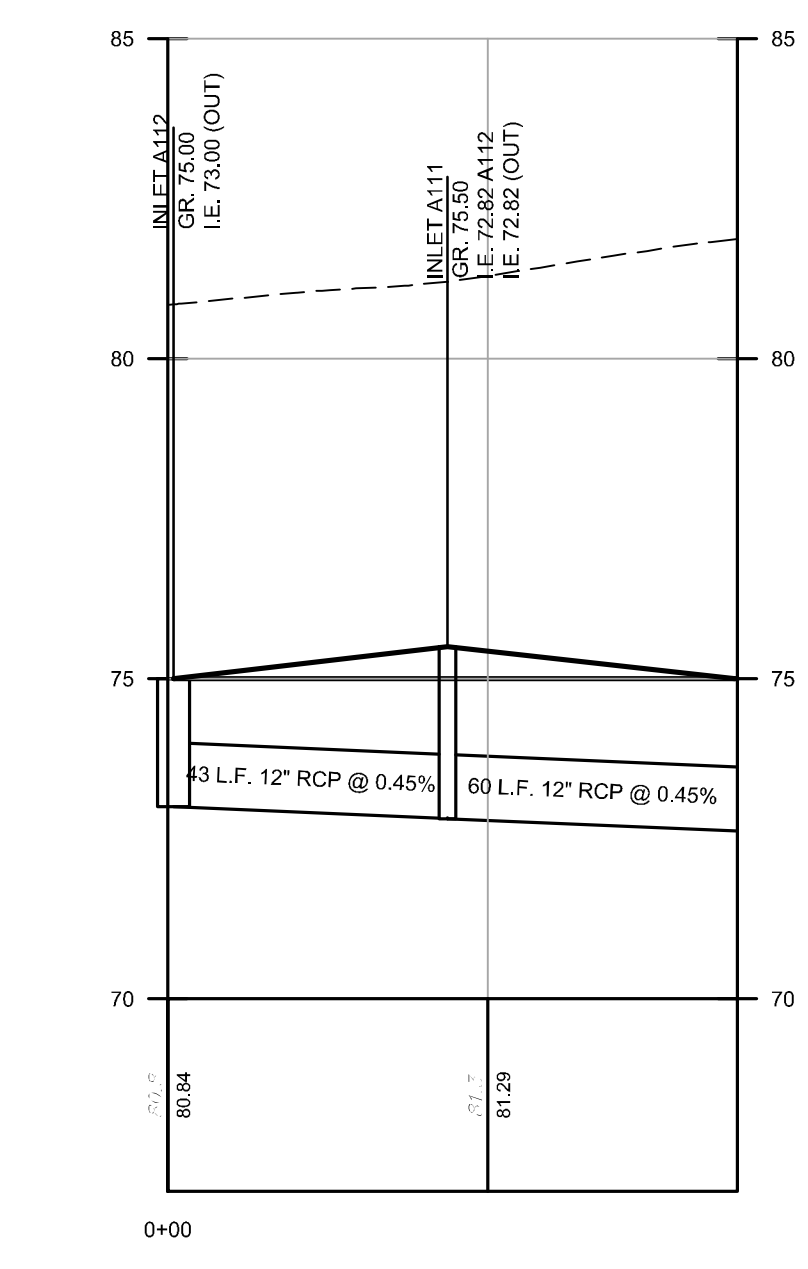


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Professional Engineer
James M. Ward, P.E.
Project: 100-066-5001
Date: 11/15/22

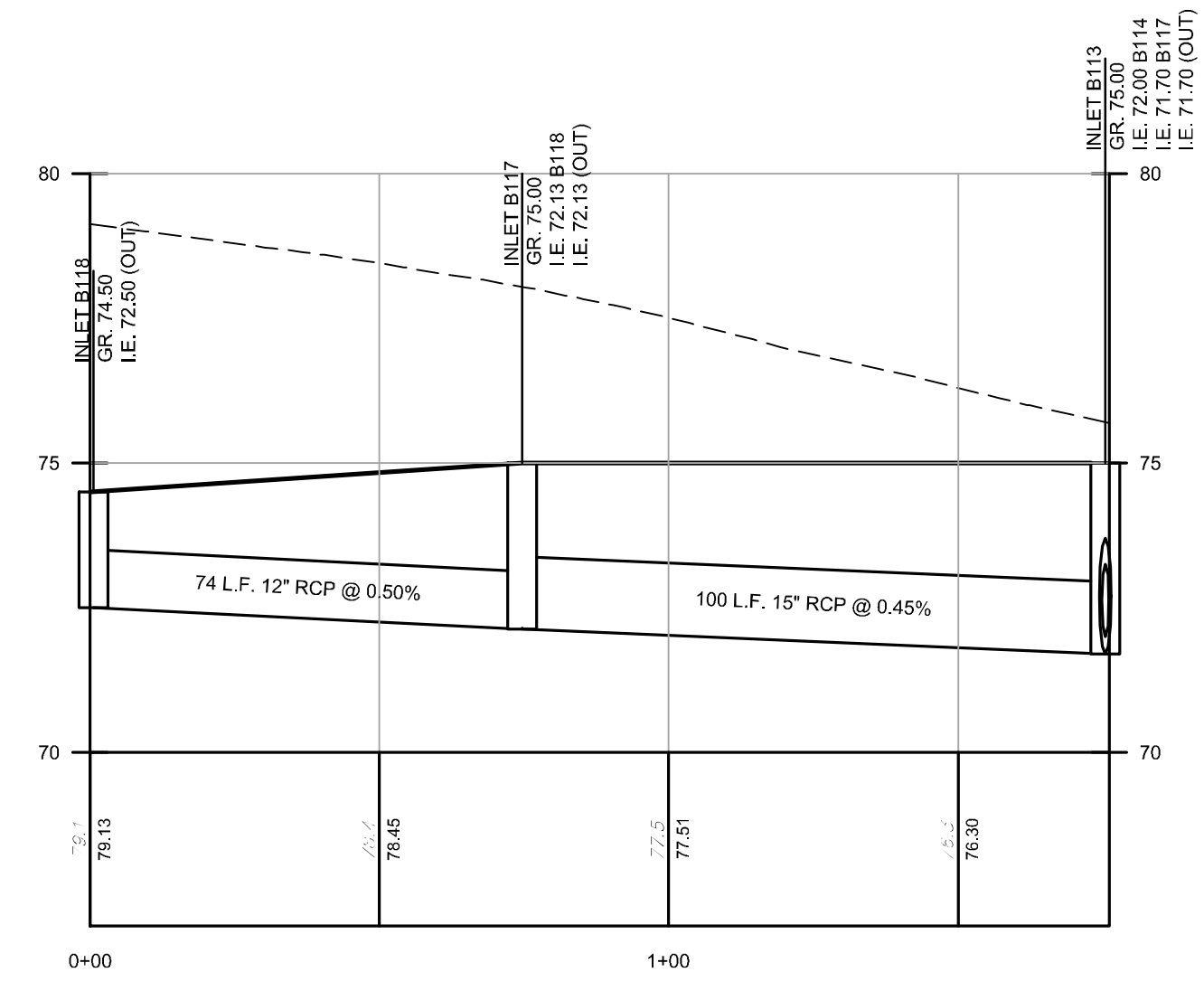
AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
GRADING & UTILITIES PLAN
BLOCK 6, LOTS 12, 01, AND 12, 011
TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY



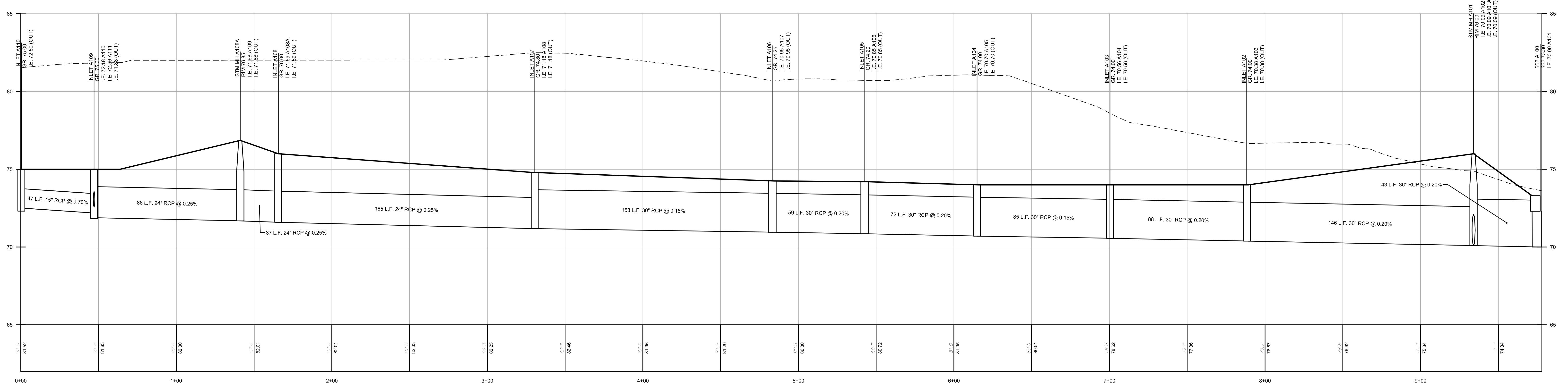
INLET A101E-STM MH A101 PROFILE



INLET A111-INLET A100 PROFILE



INLET B102-INLET B113 PROFILE



INLET A110 - FES A100 PROFILE

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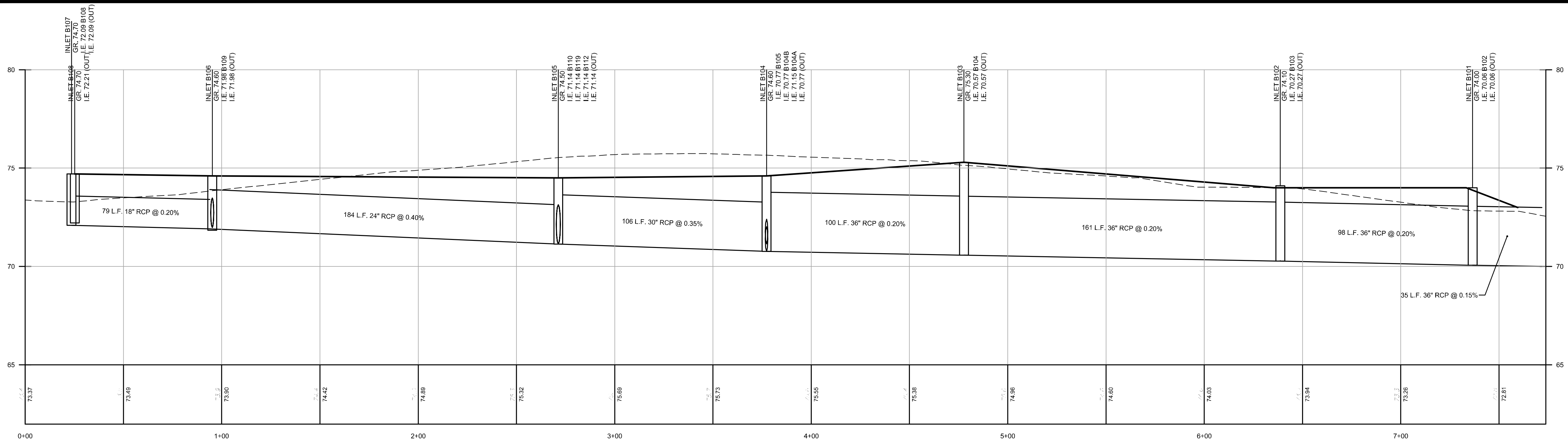


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 1000 Corporate Center
 Princeton, New Jersey 07728
 Phone: 732-665-5000
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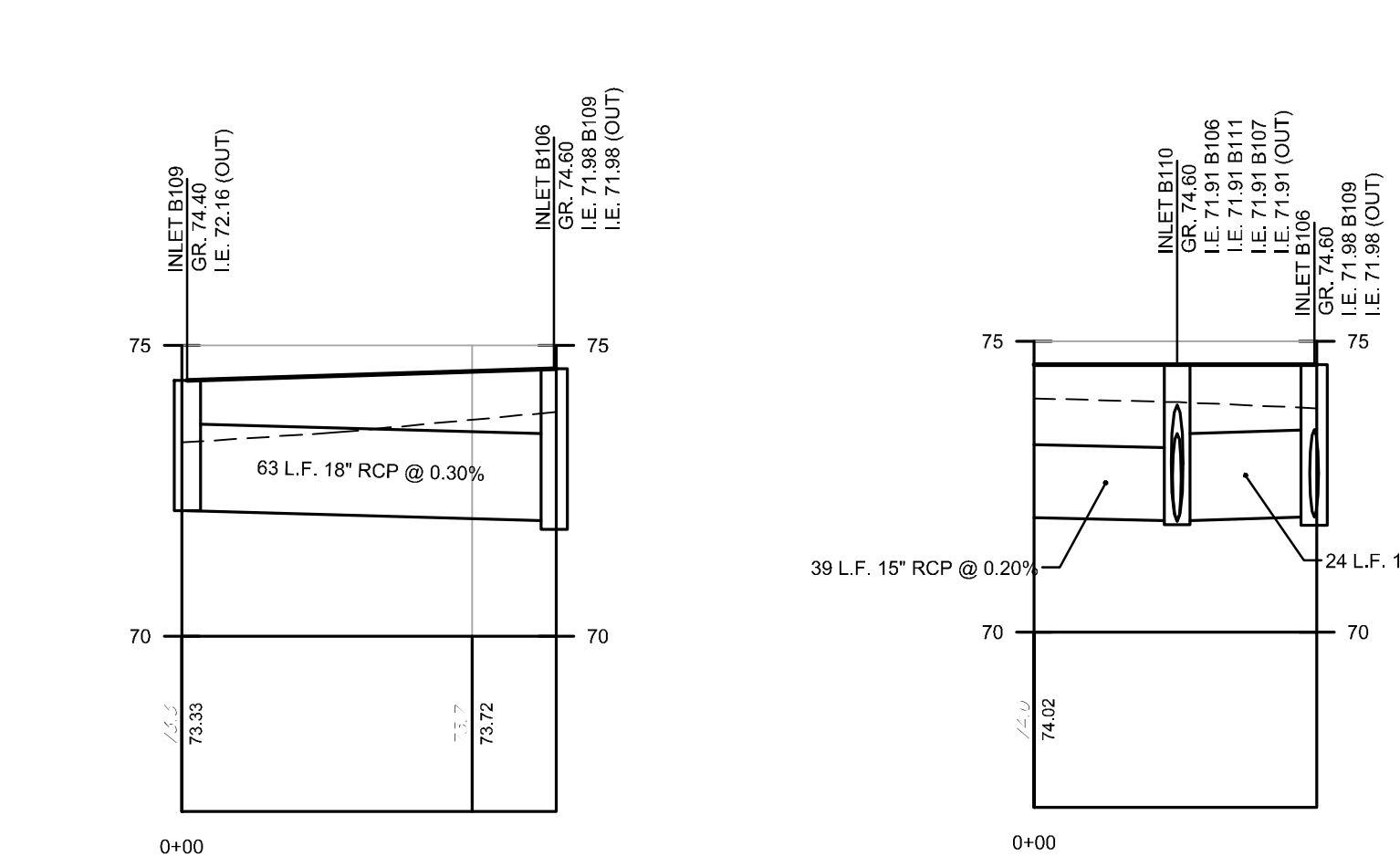
AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
 AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
 PROFILES
 TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY
 BLOCK 6, LOTS 12, 01, and 12, 011

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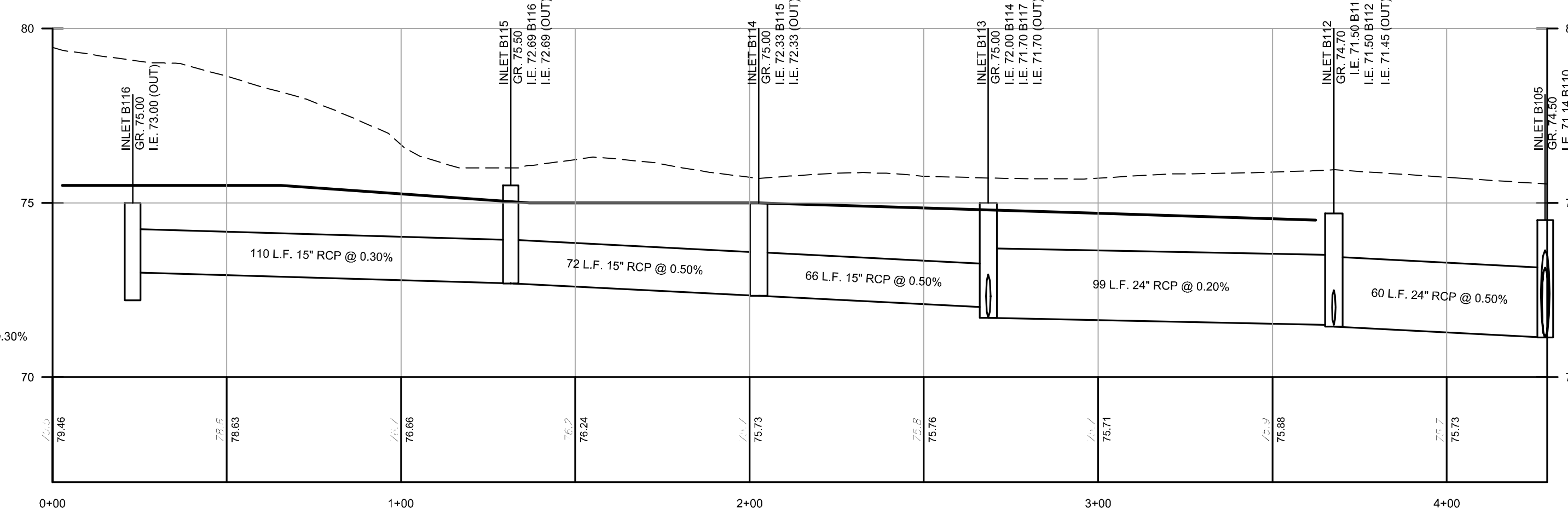
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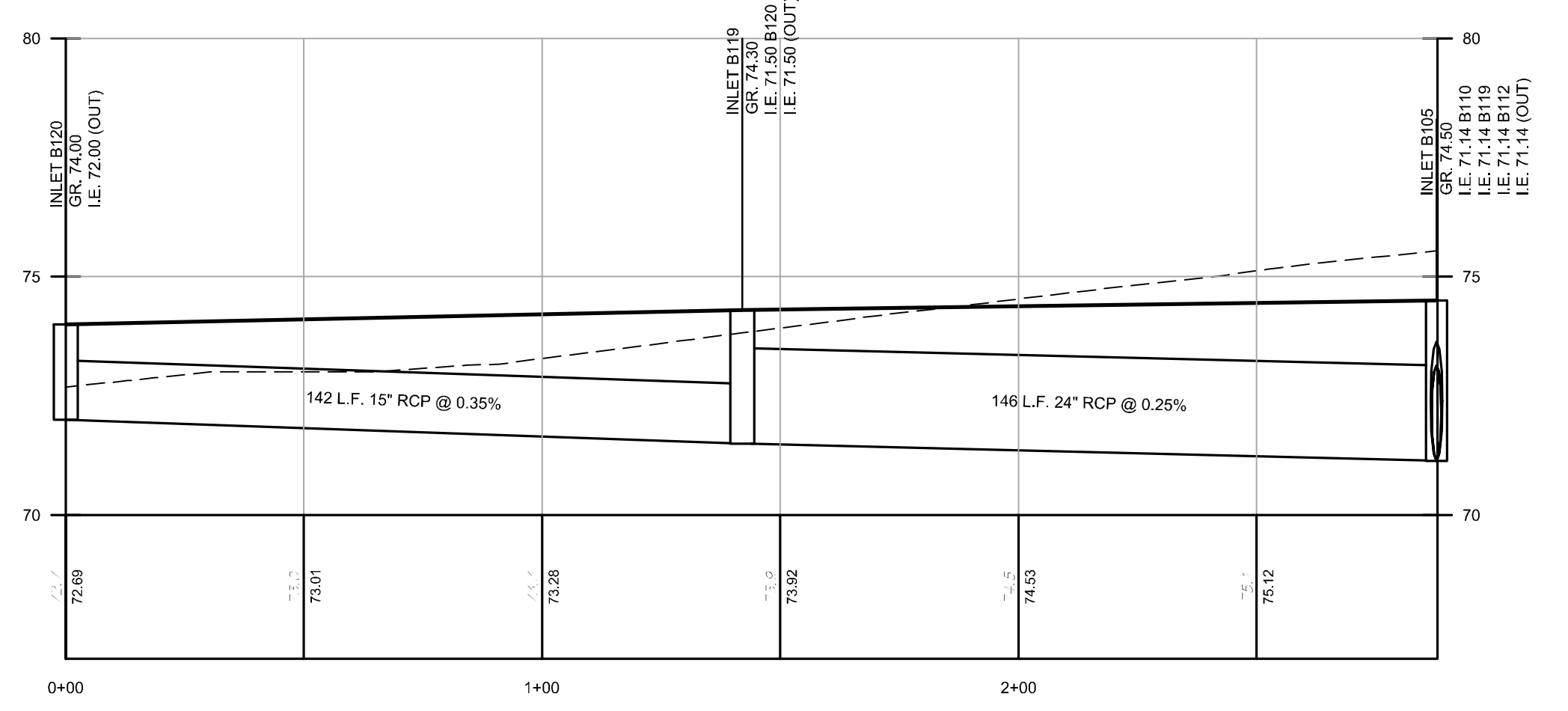
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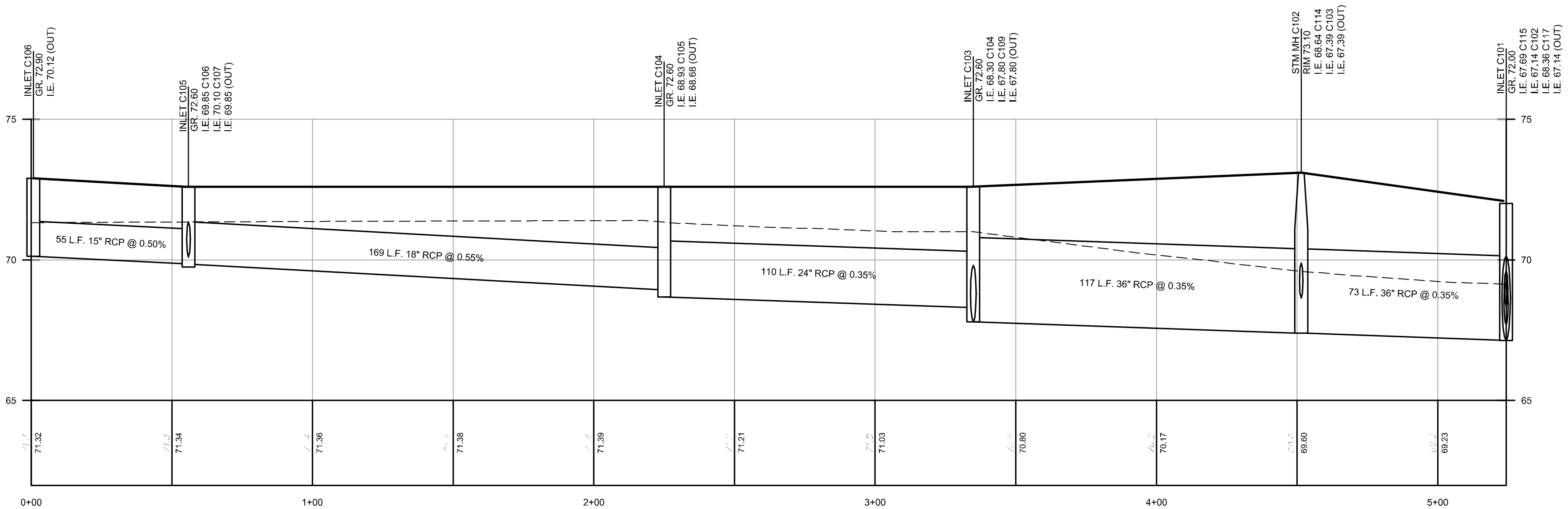
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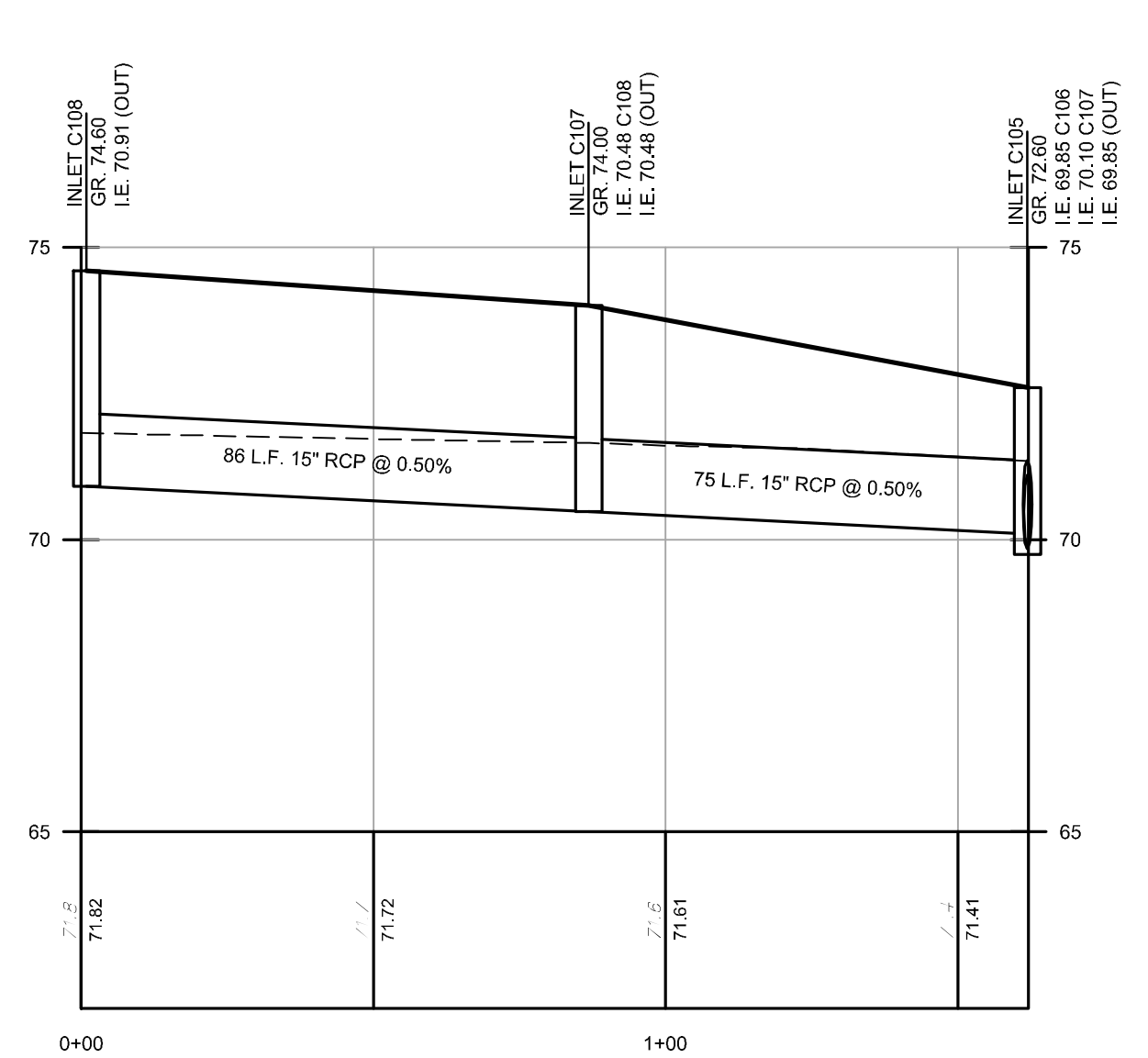
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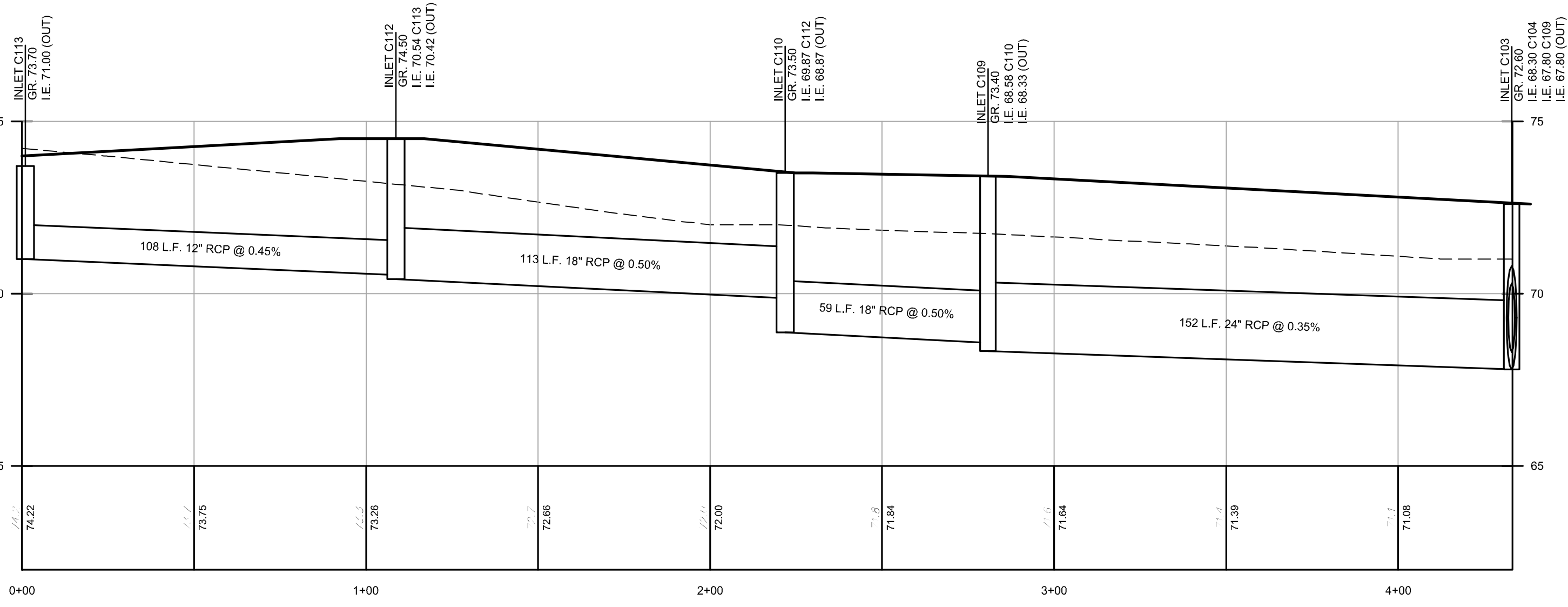
INLET B120-INLET B105 PROFILE



INLET C106-INLET C101 PROFILE



INLET C108-INLET C105 PROFILE



INLET C113-INLET C103 PROFILE

THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT

PROFILES

TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY

SHEET No. **7** OF **B**

Project: 086823-02-001
Client: W.W.

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DATE: 11/15/22

DATE: 11/15/22

REV PER 2nd ROUND TRC COMMENTS

REV PER TRC COMMENTS

DATE: 11/15/22

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REV PER 2nd ROUND TRC COMMENTS

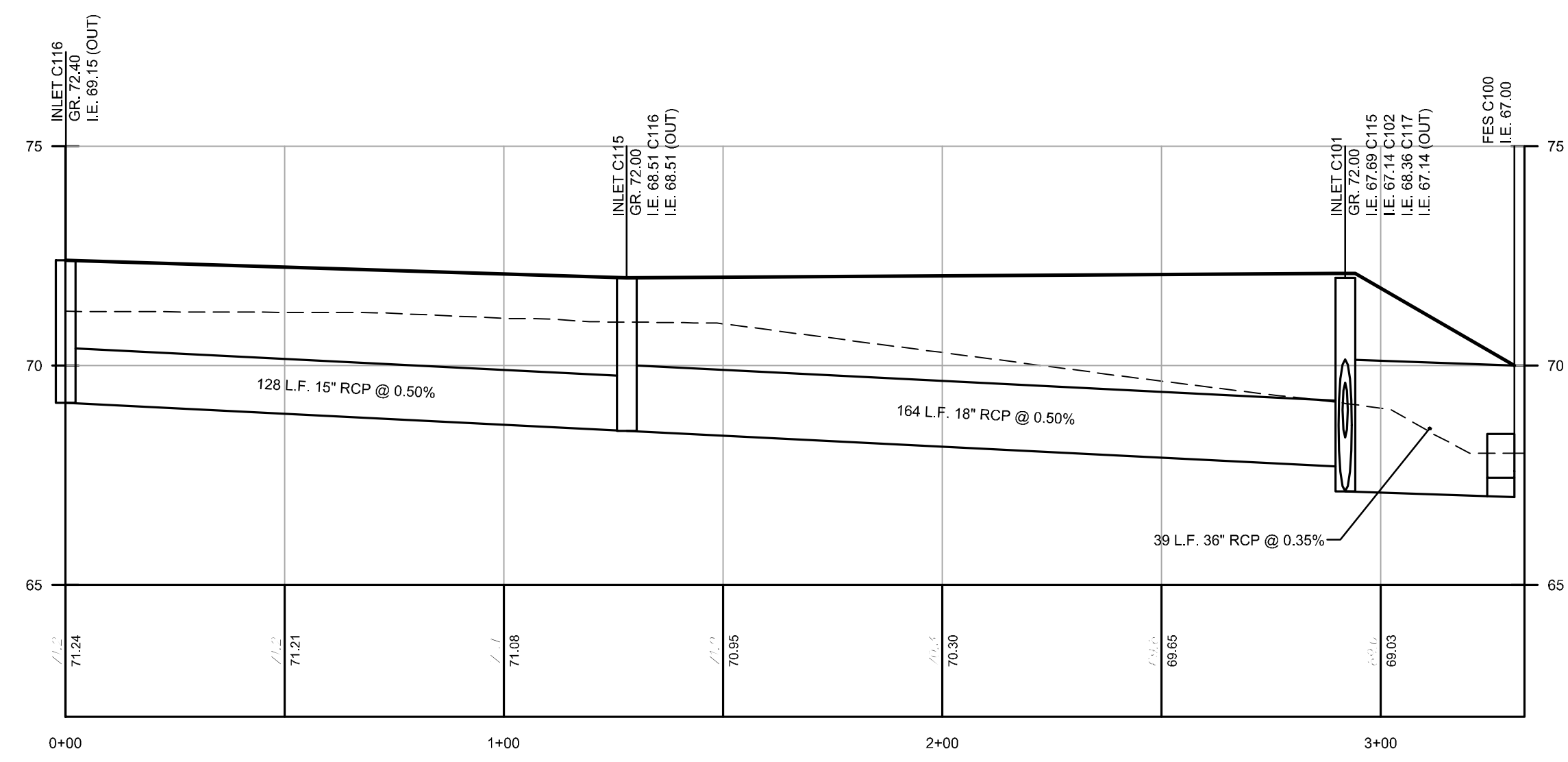
REV PER TRC COMMENTS

DATE: 11/15/22

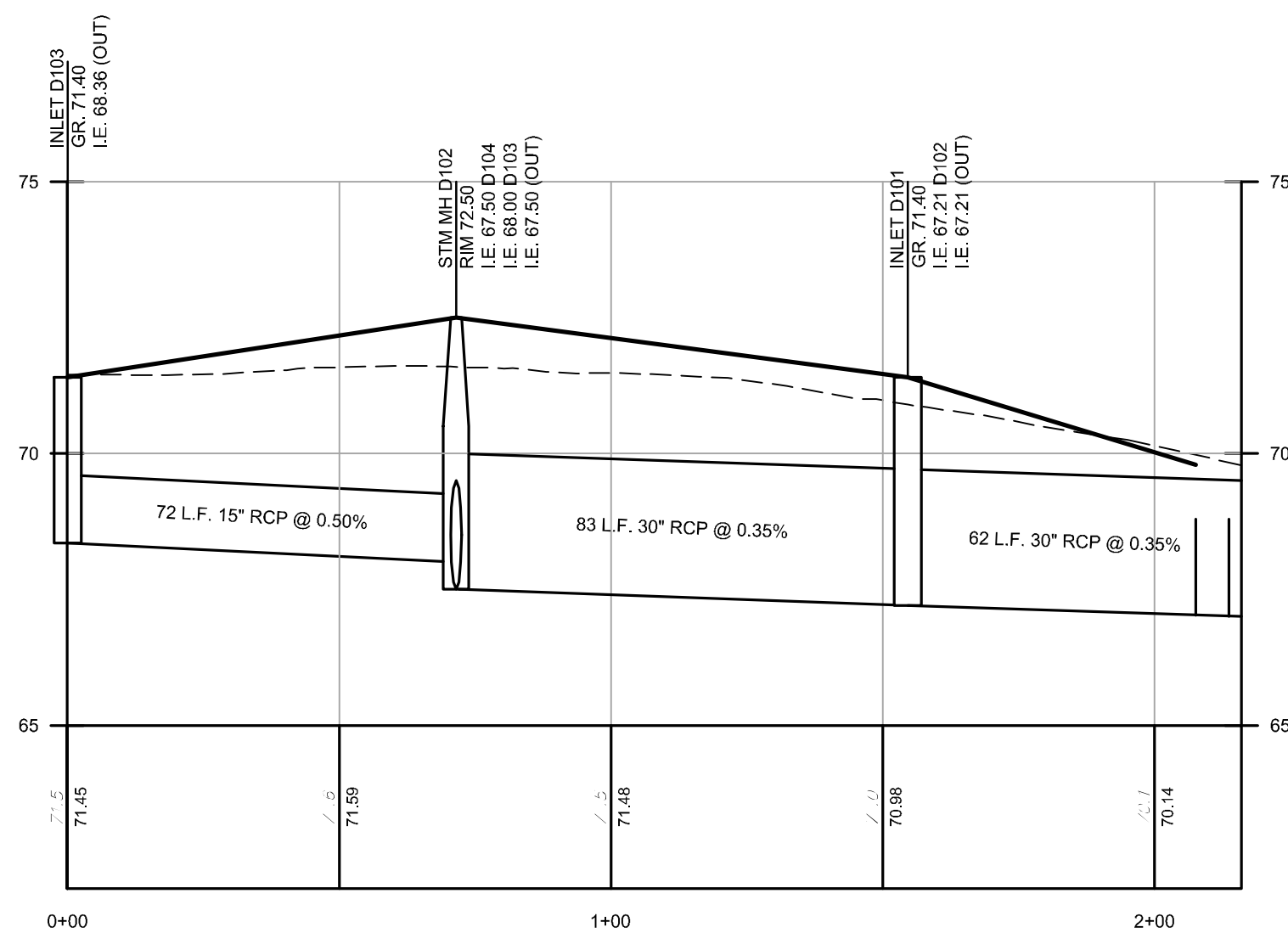
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Consulting Group, Ltd.
Professional Engineer - No. 24GE0434400

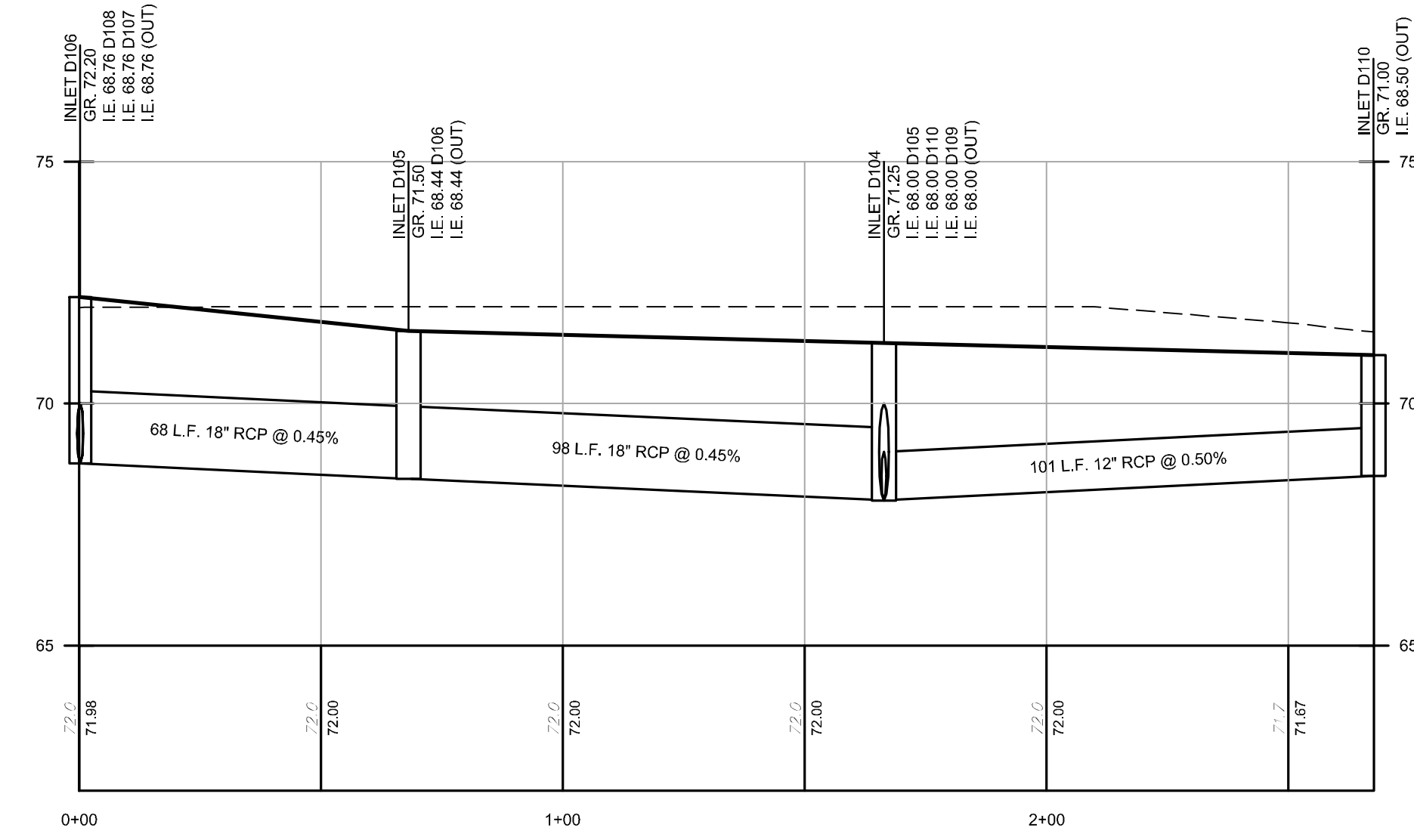
James M. Ward, P.E.
Professional Engineer - No. 24GE0434400



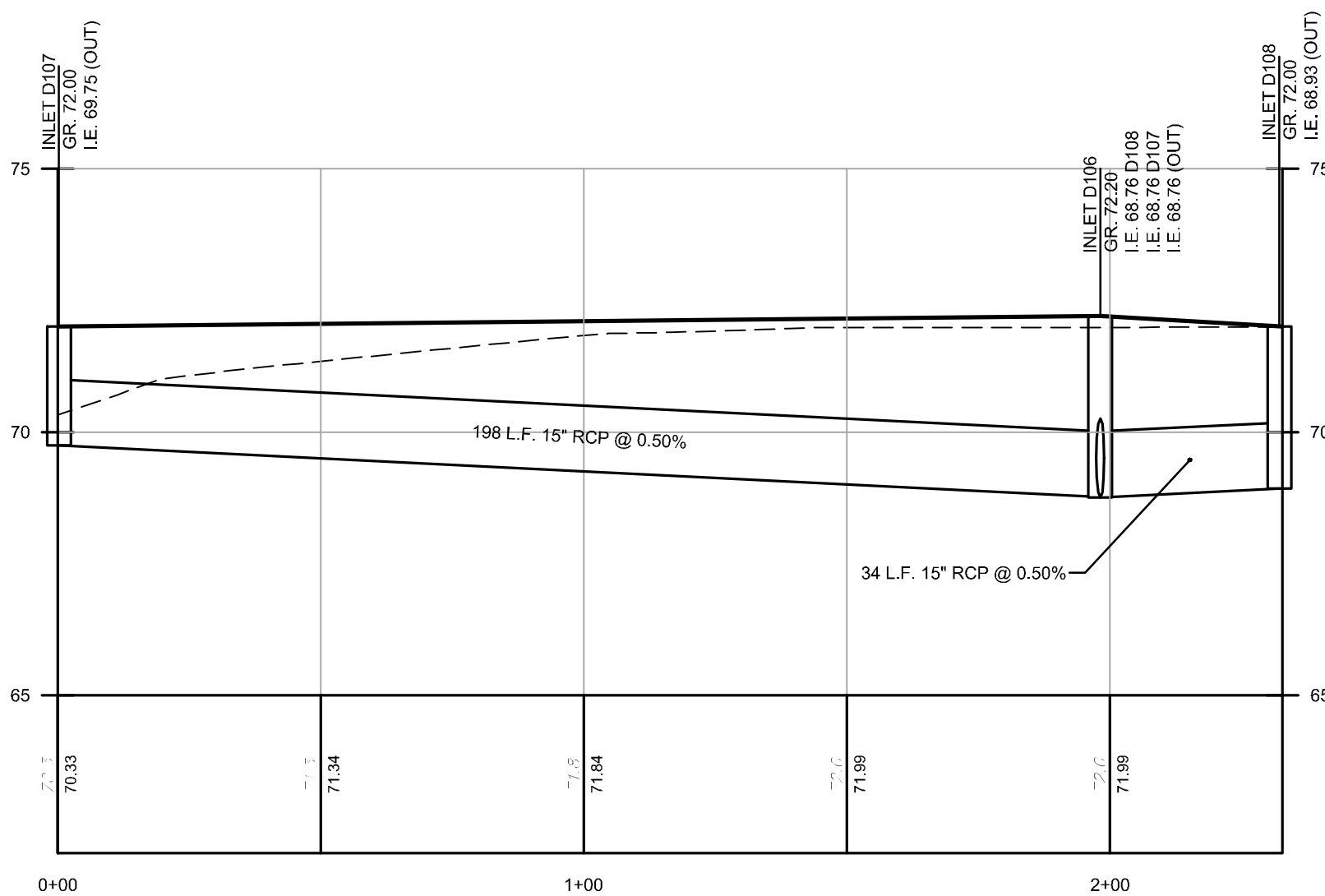
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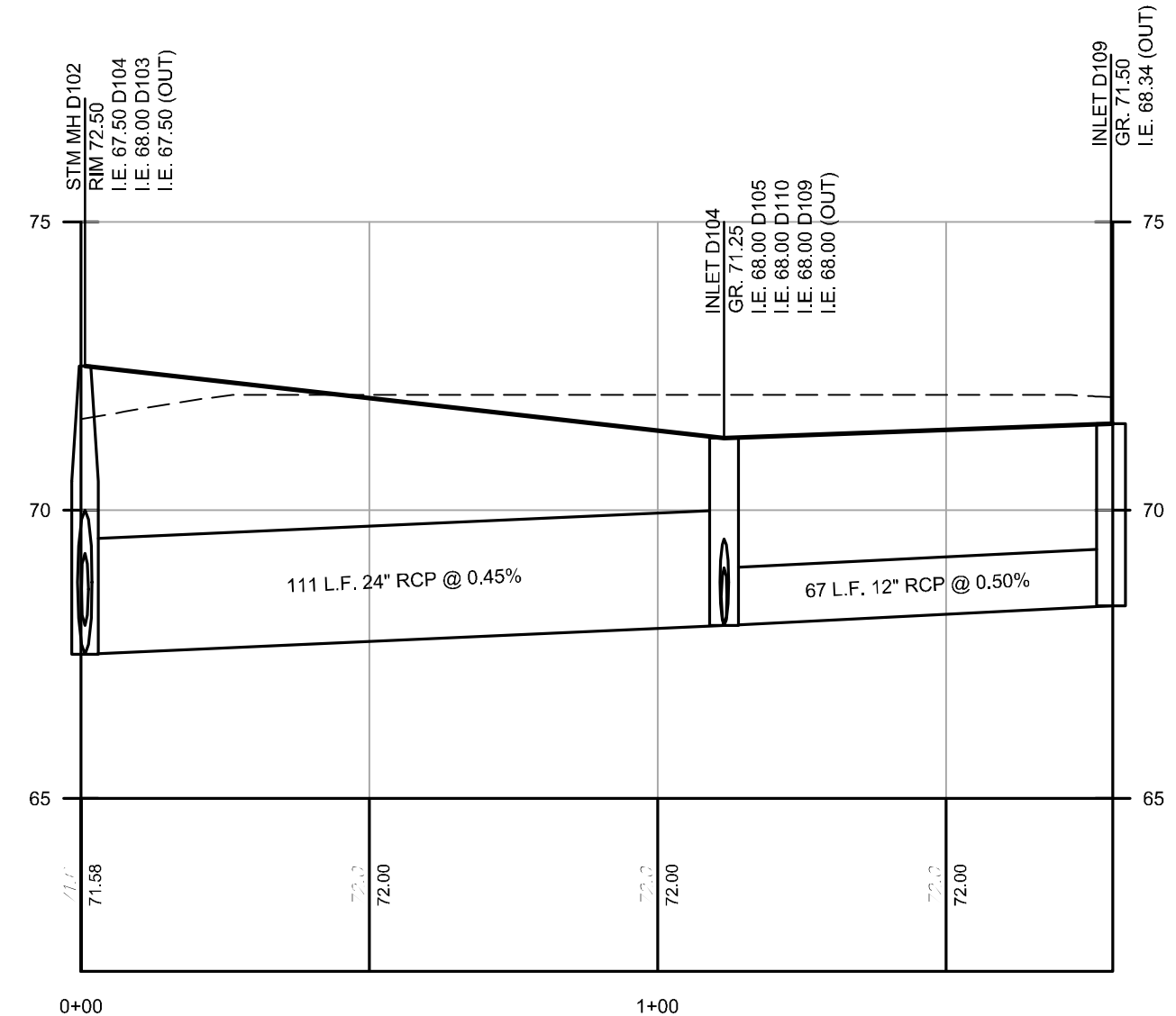
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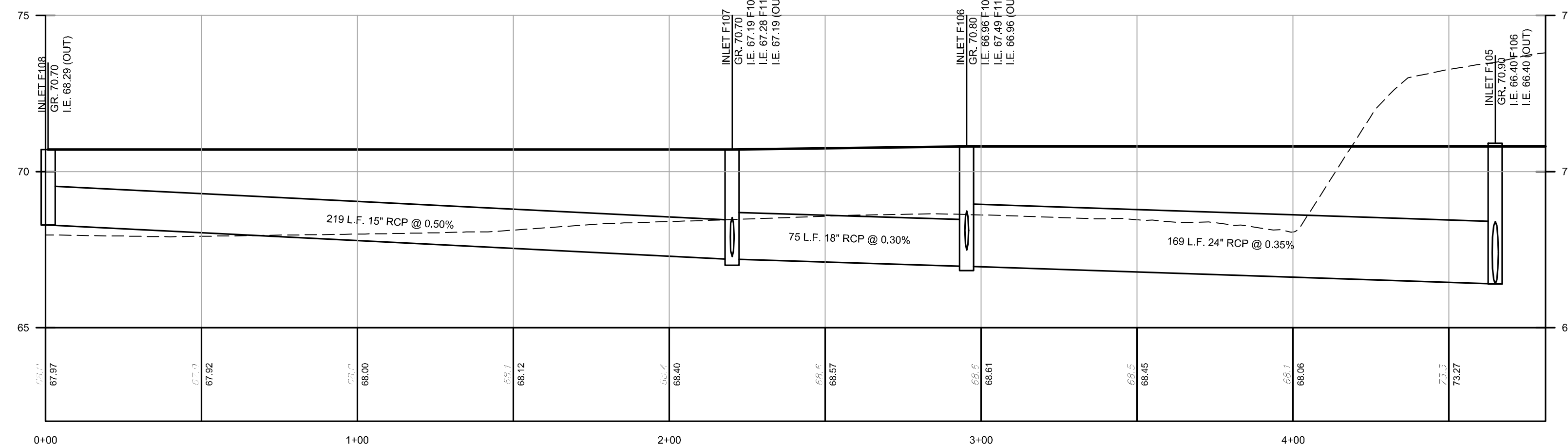
INLET D106-INLET D110 PROFILE



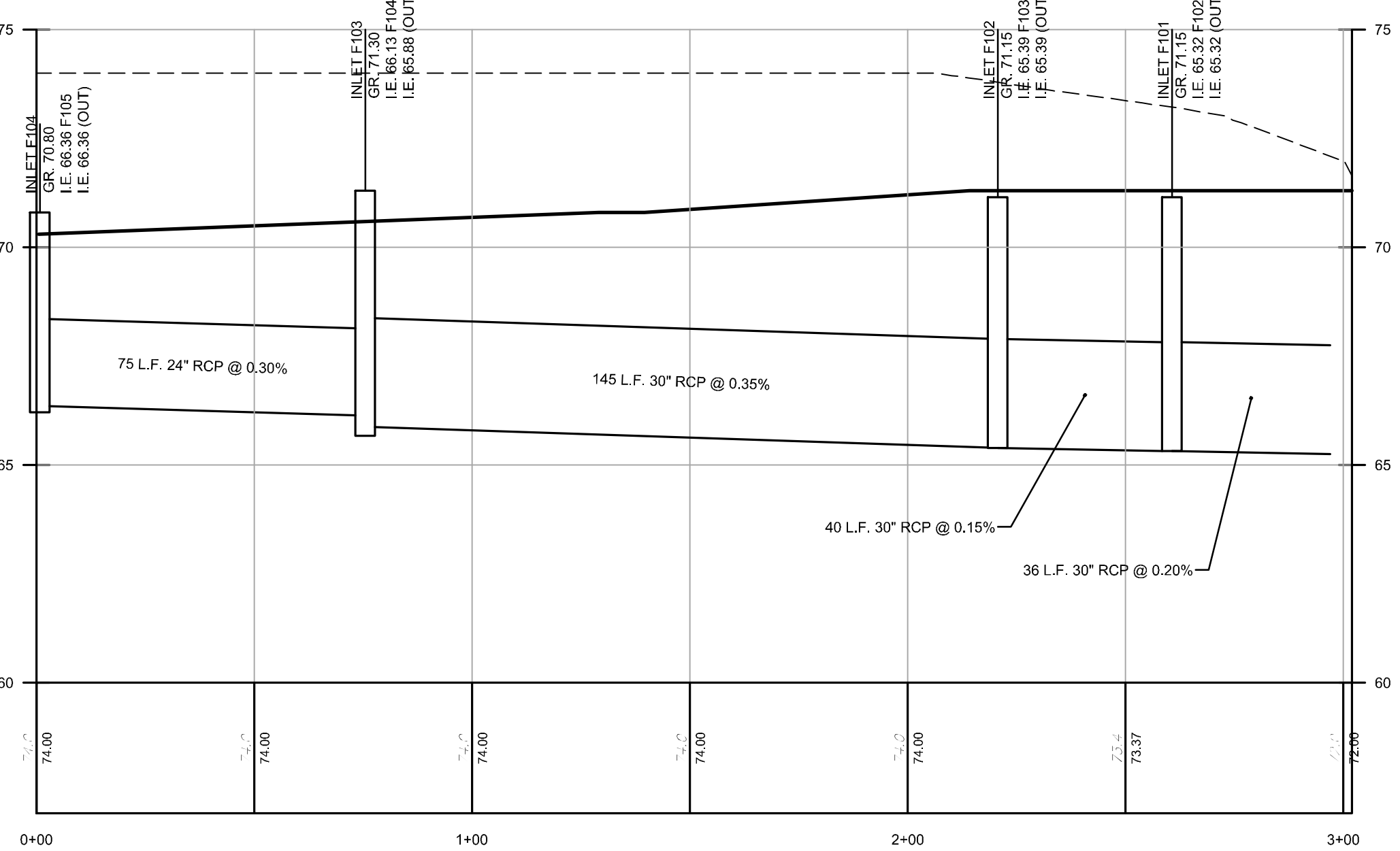
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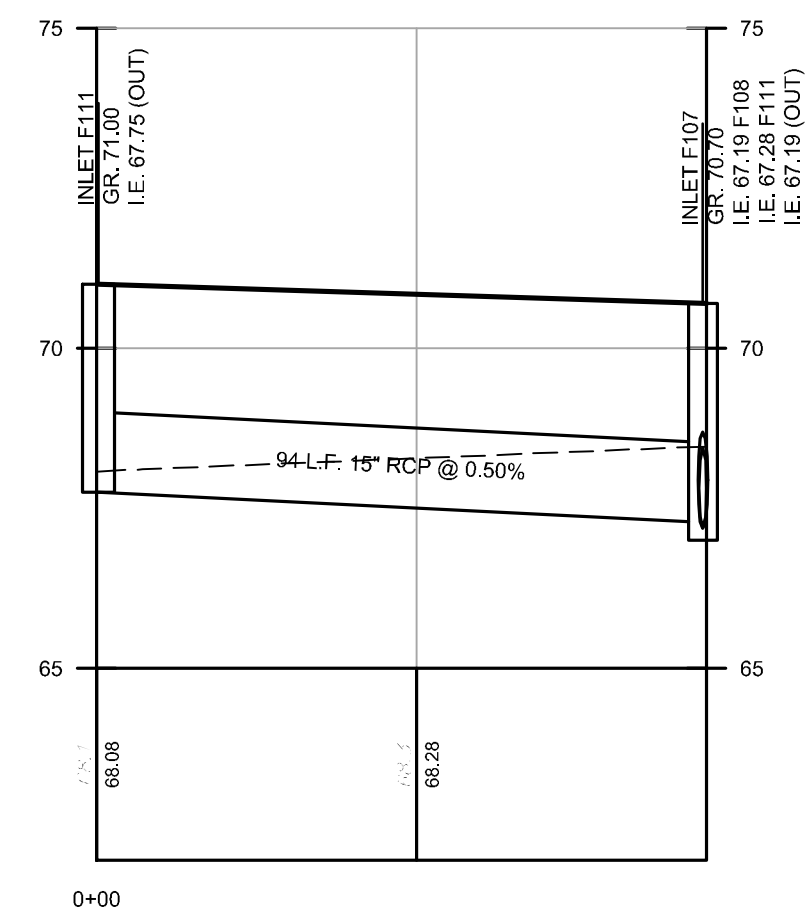
INLET D109-STM MH D102 PROFILE



INLET F108 - INLET F105 PROFILE



INLET F109 - F100 PROFILE



INLET F111 - INLET F107 PROFILE

THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

SHEET No. 7 OF C

AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
PROFILES
BLOCK 6, LOTS 12.01 and 12.011
TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY

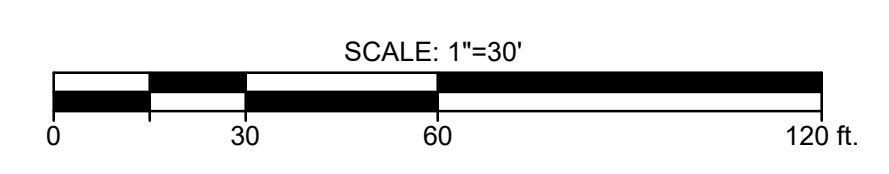
Bowman Consulting Group, Ltd.
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Professional Engineer
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www.njprofessionalengineers.com
JAMES M. WARD, N.J. Professional Engineer, No. 24GE043400



PROJ: 086823-02-001
CHKD: VAW
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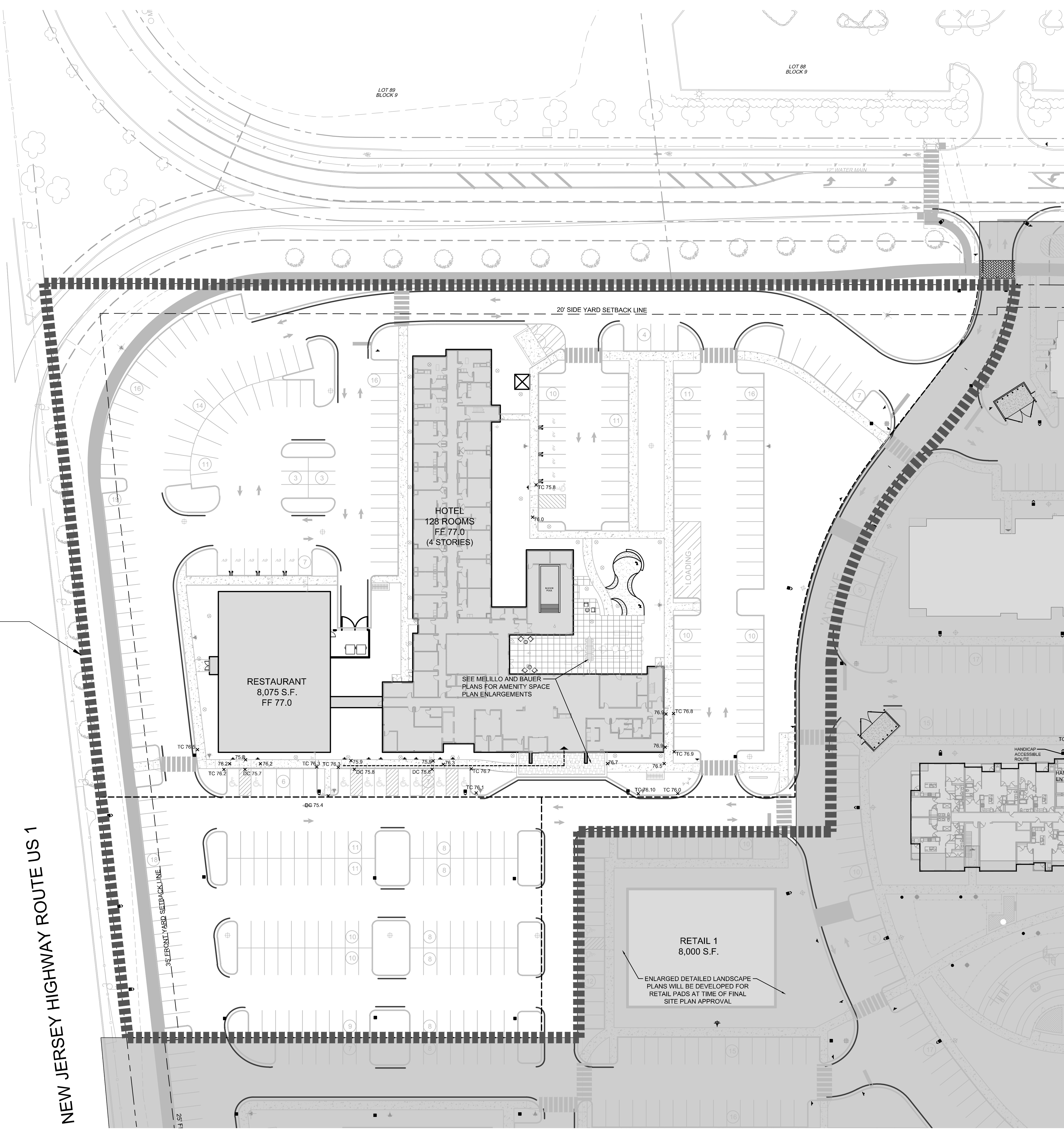
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NOTE:
 1. UPON APPROVAL OF AN APPLICATION TO THE TOWNSHIP OF WEST WINDSOR, AND PURSUANT TO N.J.S.A. 39:5A-1, THE PROVISIONS OF SUBTITLE 1, TITLE 39 OF THE REVISED STATUTES OF THE STATE OF NEW JERSEY SHALL BE MADE APPLICABLE TO THE SEMI-PUBLIC ROADWAYS, DRIVEWAYS, PARKING AREAS, AND OTHER AREAS USED FOR VEHICULAR TRAFFIC ON THE PROPERTY SHOWN HEREON AND SHALL BE ENFORCED BY THE WEST WINDSOR POLICE DEPARTMENT, AND/OR ANY OTHER AUTHORIZED POLICE ENFORCEMENT AGENCY.



PHASE 1: TITLE 39 ENFORCEMENT AREA-SEE NOTE

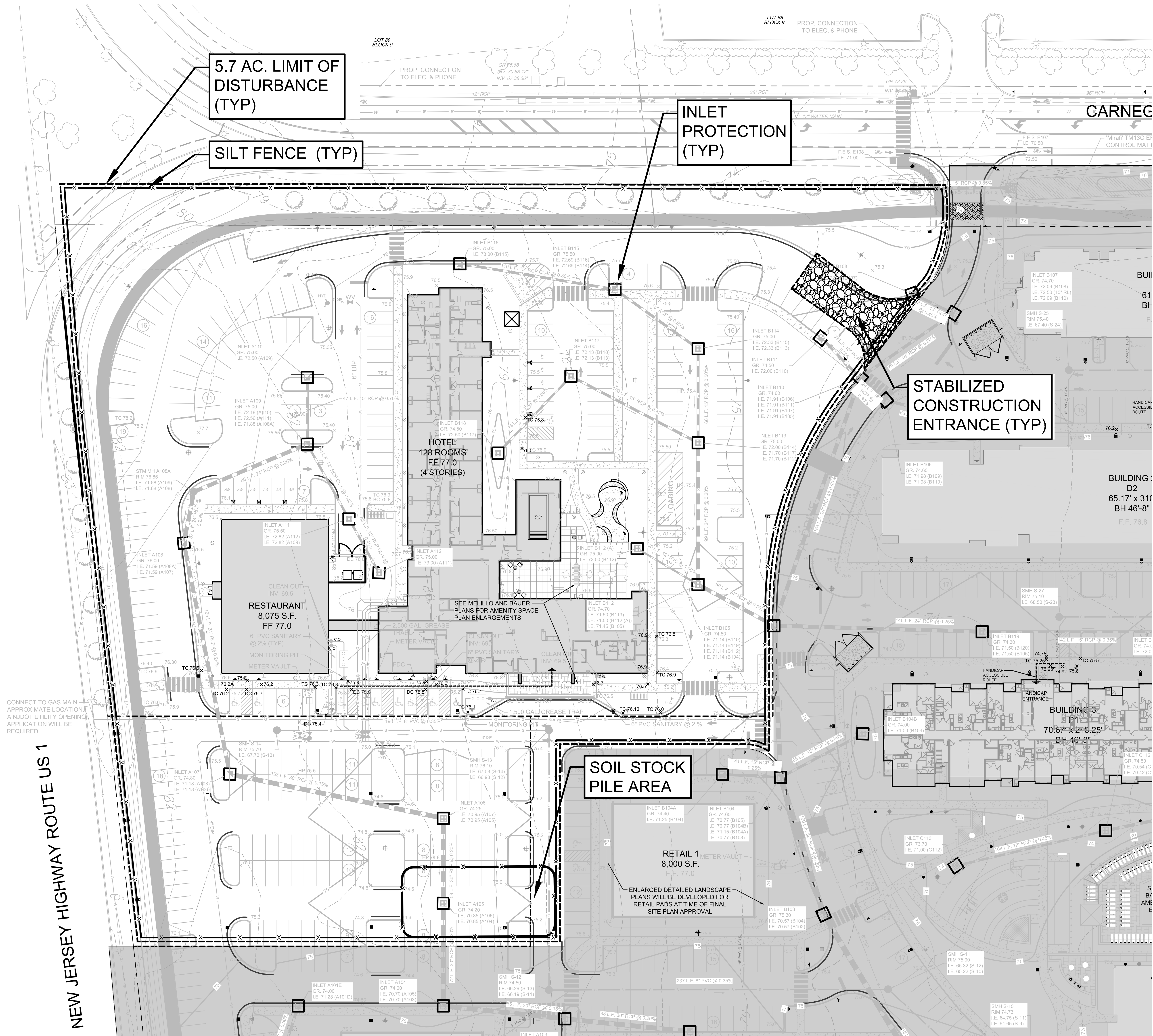
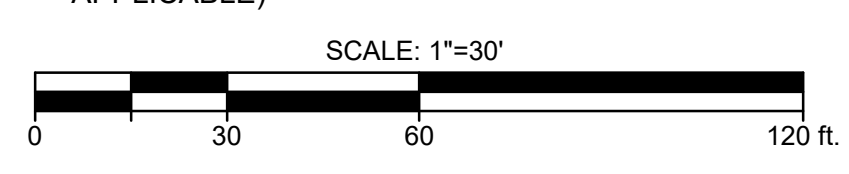
NEW JERSEY HIGHWAY ROUTE US 1



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<p>AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT</p>	<p>DATE: 12/15/22</p>
<p>TITLE 39 PLAN</p>	<p>DATE: 11/15/22</p>
<p>TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY</p>	<p>REVISION</p>
<p>8</p>	<p>7</p>
<p>OF</p>	<p>DATE: CHD</p>

THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

NOTE:
 1. A DEP GENERAL PERMIT WILL BE REQUIRED TO CONNECT THE SWIMMING POOL BACKWASH TO THE PROPOSED STORM SYSTEM.
 2. DEP PERMITS FOR DEWATERING WILL BE SECURED (IF APPLICABLE)



THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
 AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
SOIL EROSION & SEDIMENT CONTROL PLAN
 TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY

PROJ. 086823-02-001
 CHD. VVV

Rev. 1
 Rev. 2
 Rev. 3
 Rev. 4
 Rev. 5
 Rev. 6
 Rev. 7

DATE: 11/15/22
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 DATE: 11/15/22

REVISION

REV PER 2nd ROUND TRC COMMENTS
 REV TRC COMMENTS

Bowman
 James M. Ward, N.J. Professional Engineer, No. 24GE0434400
 Bowman Consulting Group, Ltd.
 750 West Windsor Road
 West Windsor, NJ 07080
 Phone: 732-662-6500
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SHEET No. **9** OF

MERCER COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL GENERAL NOTES

- MERCER COUNTY SCD
REQUIRED SOIL EROSION AND SEDIMENT CONTROL NOTES
(for inclusion on all SDCs submitted for review and certification)
Updated August 2014
- The Mercer County Soil Conservation District shall be notified 48 hours prior to starting land disturbance activity. Notice may be mailed, faxed or emailed to MCDSCD, 590 Hughes Drive, Hamilton Square, NJ 08609/Phone: 609-686-8003 Fax: 609-686-1117, Email: Paul@scd.mercercountynj.gov
 - If applicable to this project, the owner should be aware of his or her obligation to file for a NJDES Construction Activity Stormwater Pollution Prevention Plan (SWPPP) with the NJDEP before commencing any earthmoving activities and to maintain the associated best management practices and Stormwater Pollution Prevention Plan self-inspection logbook on site at all times. This permit must be filed prior to the start of any earthmoving activity. The SWPPP shall be approved by the District and a copy of the SWPPP code, which is provided by the Soil Conservation District upon certification of the Soil Erosion and Sediment Control Plan. The Mercer County Soil Conservation District shall be notified 48 hours prior to starting any earthmoving activity.
 - Any changes to the Certified Soil Erosion and Sediment Control Plan, including an increase in the limit of disturbance, will require the submission of a revised Soil Erosion and Sediment Control Plan to the District for certification. The revised plans must meet all current State Soil Erosion & Sediment Control STANDARDS.
 - A copy of the certified Soil Erosion and Sediment Control Plan shall be maintained on site at all times.
 - All Soil Erosion and Sediment Control practices shall be installed prior to any major soil disturbances, or in their proper sequence as outlined within the Sequence of Construction on the Certified Soil Erosion and Sediment Control Plan, and maintained until permanent protection is established.
 - Work shall be done in accordance with the current STANDARDS for Soil Erosion and Sediment Control in NJ. If language contained within any other permit for this project is more restrictive than (but not contradictory to) what is contained within these notes or on the Certified Soil Erosion and Sediment Control Plan, then the more restrictive requirements shall be followed.
 - The Standard for Stabilized Construction Access requires the installation of a 1 1/2" to 2" deep stone tracking pad at all construction driveways immediately after initial site disturbance, whether identified on the certified plan or not. The width shall span the full width of access, and length shall be 50 ft. or more, depending on site conditions and as required by the STANDARD. This shall include individual lot access points within residential subdivisions. If the access is to a County road, then a 20' long paved transition shall be provided between the edge of pavement and the stone access pad.
 - A sub-base course will be applied immediately following topsoil grading and installation of geotextiles in order to stabilize streets, roads, driveways and parking areas. In areas where no utilities are installed, the sub-base shall be installed within 15 days of preliminary grading, provided that all other requirements related to detention basins, swales and the Sequence of Construction have been met.
 - Any disturbed areas that will be left exposed more than 14 days and not subject to construction activity will immediately require temporary stabilization. If the season prevents establishment of a temporary vegetative cover, or if the area is not topsoiled, then the disturbed areas will be mulched with straw, or equivalent material, at a rate of two (2) tons per acre, according to State STANDARDS. Stopped areas in excess of 3H x 1V shall be provided with erosion control blankets. Critical areas subject to erosion (i.e. steep slopes, roadway embankments, environmentally sensitive areas) will receive temporary stabilization immediately after initial disturbance or rough grading.
 - Any steep slopes (i.e. slopes greater than 3:1) receiving pipeline or utility installation will be backfilled and stabilized daily, as the installation proceeds.
 - Permanent vegetation shall be seeded or sodded on all exposed areas within ten (10) days after final grading and topsoiling. All agronomic requirements contained within the STANDARDS and on the Certified Plan shall be employed. Mulch with binder, in accordance with the STANDARDS, shall be used on all seeded areas. Save all tags and/or tags used for seed, lime and fertilizer, and provide them to the District inspector to verify the STANDARDS.
 - At the time when the site preparation for permanent vegetative stabilization is going to be accomplished, any soil that will not provide a suitable environment for the desired permanent vegetative cover should be removed or treated in such a way that will permanently adjust the soil conditions and render it suitable for vegetative ground cover. If the removal or treatment of the soil will permanently alter the soil conditions, then non-vegetative means of permanent ground stabilization will be employed.
 - During the course of construction, soil compaction may occur within haul routes, staging areas and other project areas. In accordance with the Standard for Topsoiling, compacted surfaces should be scarified if 12" immediately prior to topsoil application. Prior to seeding, topsoil shall be prepared to prepare a proper seedbed. This shall include raking of the topsoil and removal of debris and stones, along with other requirements of the Standard for Permanent Vegetative Cover for Soil Stabilization. In accordance with the Standard for Management of High Acid Producing Soils, any soil having a pH of 4 or less or excess of iron or containing iron sulfides shall be buried with limestone in accordance with the STANDARD and be covered with a minimum of 12" of soil having a pH of 6.5 or higher. The limestone shall be applied at a rate of 200 lbs per acre and be covered with a minimum of 2" of soil located on a slope, then the area shall be covered with a minimum of 24" of soil having a pH of 6.5 or more.
 - Mulching to the STANDARDS is required for obtaining a Conditional Report of Compliance. Conditional R/C's are only issued when the season prohibits seeding. Permanent stabilization through the use of straw mulch and seeding may be used in lieu of topsoiling. Hydroseeding is a two-step process. The first step includes seed, fertilizer, lime, etc., along with minimal amounts of rock to promote consistency, good seed-to-soil contact, and give a visual indication of coverage. Upon completion of the seeding operation, hydroseed should be applied at a minimum rate of 1500 lbs. per acre in second step. The use of hydro-mulch, as opposed to straw, is limited to optional seeding dates as listed in the STANDARDS. The use of hydro-mulch on sloped areas is discouraged.
 - The contractor is responsible for keeping all adjacent roads clean during the life of the construction project. All sediment washed, dropped, tracked or spilled onto paved surfaces shall be immediately removed.
 - The developer shall be responsible for remedial actions for erosion or sediment problems that arise as a result of ongoing construction, and for employing additional erosion and sediment control measures at the request of the Mercer County Soil Conservation District.
 - Conduit Outlet Protection must be installed at all required outfalls prior to the drainage system becoming operational.
 - All detention/retention basins must be fully constructed (inclusive of all structural components and liners) and permanently stabilized prior to paving or to the addition of any impervious surfaces. Permanent stabilization includes, but may not be limited to topsoil, seed, straw mulch and erosion control blankets on all seeding. All agronomic requirements as specified on the Certified Soil Erosion and Sediment Control Plan, installation of the outflow control structures and discharge storm drainage piping, low flow channels, conduit outlet protection, emergency spillways, and tap lining protection.
 - The riding surface of all paved areas shall be 3/4" clean stone over a 2" sand or base pavement until such time as final pavement has been installed. Temporary soil ridge surfaces are prohibited.
 - All sediment development (i.e. erosion, excavation, etc.) shall be stabilized with a high clay content.
 - Discharge locations for the dewatering operation must contain permanent vegetation or similar stable surface.
 - All swales or channels that will receive runoff shall be permanently stabilized prior to the installation of pavement. If the season prohibits the establishment of permanent stabilization, the swales or channels may be temporarily stabilized in accordance with the STANDARDS.
 - NJSA 12-42-39 et seq. requires that a Certificate of Occupancy or Temporary Certificate of Occupancy be issued by the Municipality before the provisions of the Certified Soil Erosion and Sediment Control Plan have been satisfied. Therefore, all site work for site plans and all work around individual lots in subdivisions must be completed before the District issues a Report of Compliance or Conditional Report of Compliance, which will be forwarded to the Municipality prior to the issuance of a Certificate of Occupancy or Temporary Certificate of Occupancy, respectively.

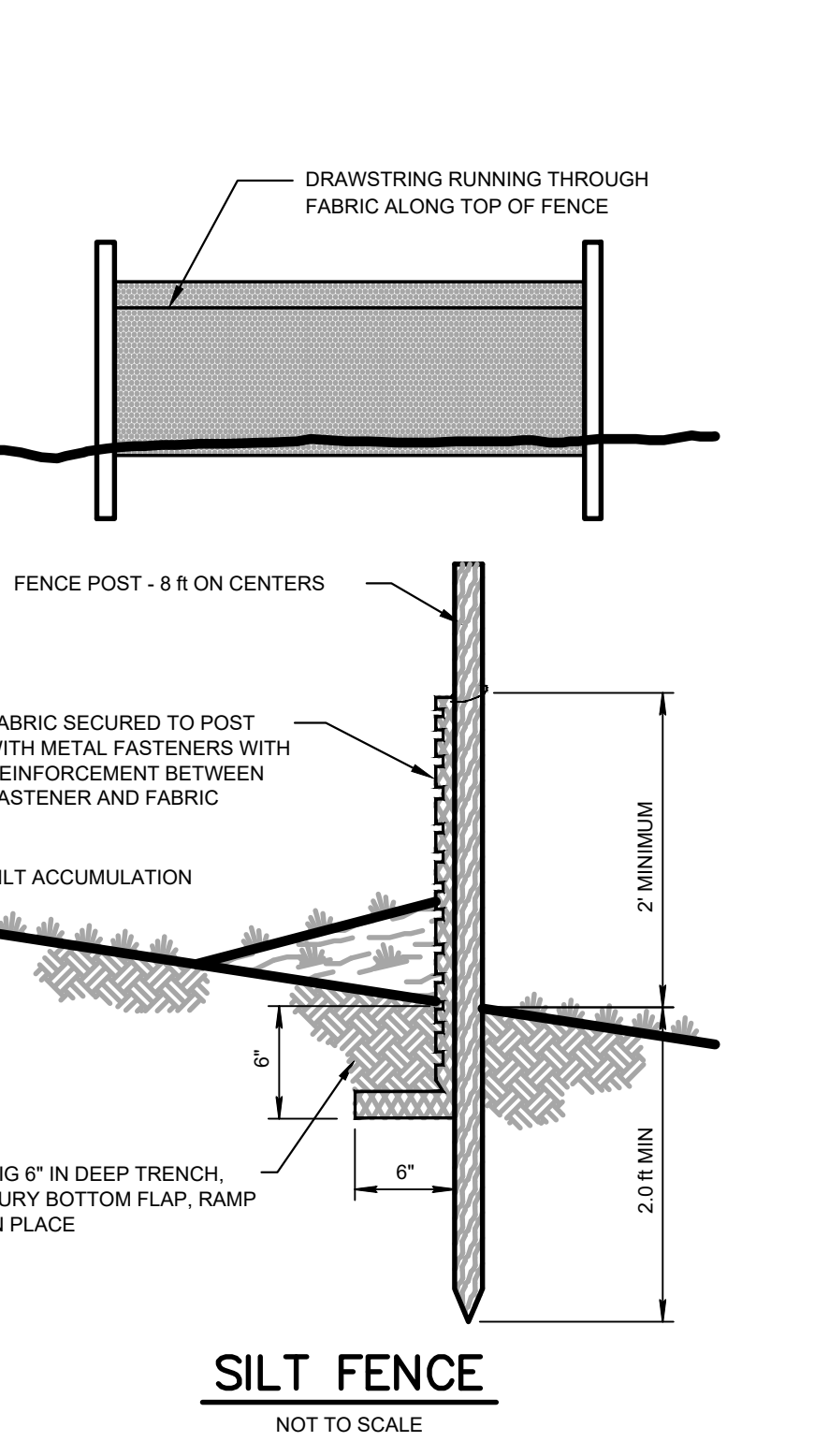
MERCER COUNTY SOIL CONSERVATION DISTRICT
590 HUGHES DRIVE
HAMILTON SQUARE, N.J. 08609

CONSTRUCTION SEQUENCE

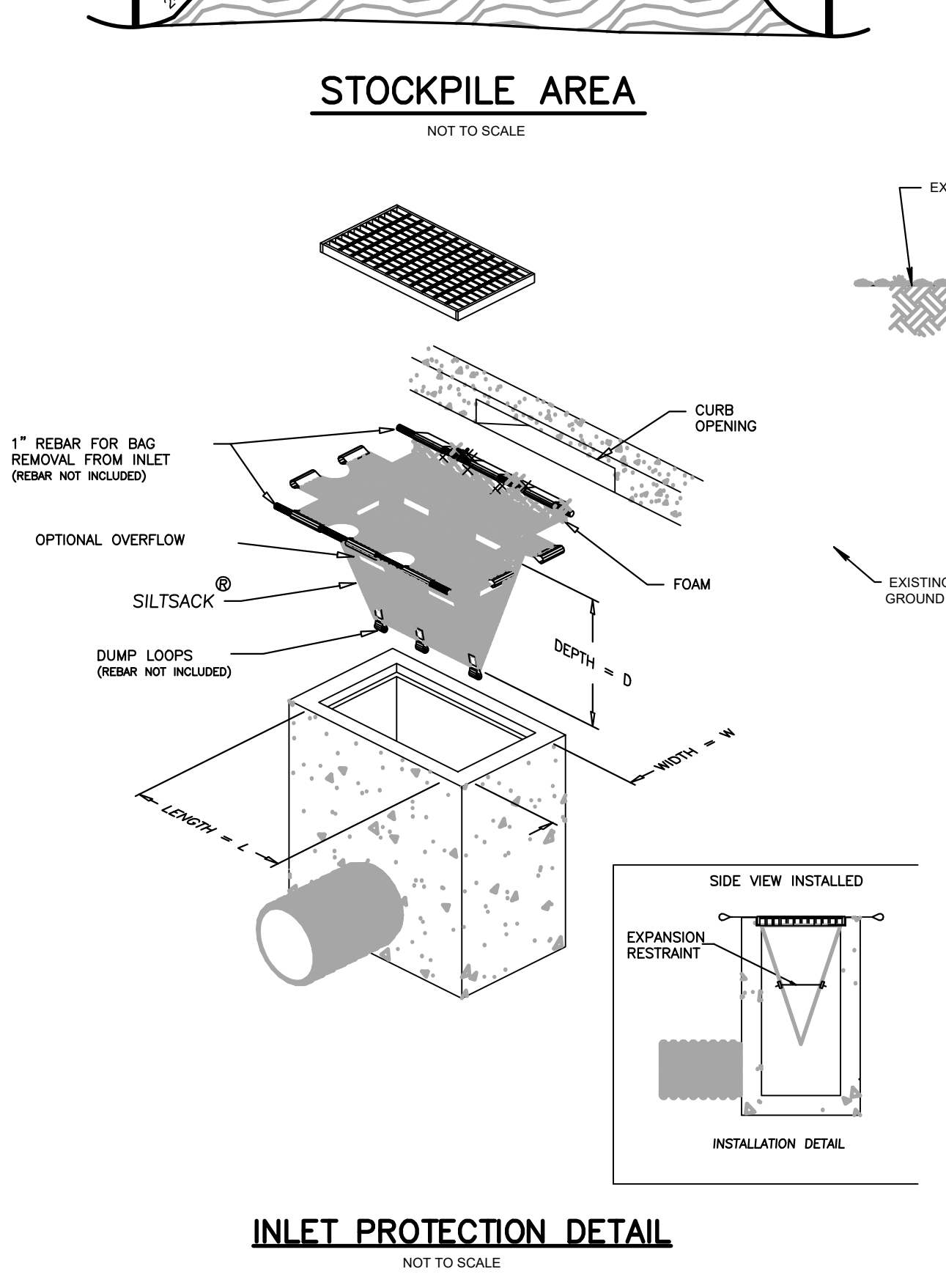
ITEMS AND DURATIONS OF CONSTRUCTION WILL OCCUR APPROXIMATELY AS FOLLOWS:

PHASE	DURATION
1. TEMPORARY SOIL EROSION FACILITIES	1 WEEK
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE	1 WEEK
3. INSTALL SILT FENCE	1 WEEK
4. ROUGH CLEARING, STRIP TOPSOIL, AND GRADING	4 WEEKS
5. CONSTRUCT STORM WATER BASINS AND PERMANENT STABILIZATION (DETENTION BASINS NOT INCLUDING SAND BOTTOMS)	6 WEEKS
6. TEMPORARY SEEDING *	2 WEEKS
7. SANITARY SEWER INSTALLATION	8 WEEKS
8. STORM SEWER INSTALLATION	6 WEEKS
9. INLET PROTECTION	IMMEDIATELY
10. CURB & SIDEWALK INSTALLATION	4 WEEKS
11. ROAD SUB-BASE	2 WEEKS
12. MAINTENANCE OF TEMPORARY EROSION CONTROL MEASURES	CONTINUOUSLY
13. CONSTRUCTION OF THE BUILDINGS	30 MONTHS
14. SOIL RESTORATION TESTING/SCARIFICATION/VERIFICATION	1 WEEK
15. 3" THICK TOPSOIL LAYER TO BE INSTALLED THROUGHOUT THE PROJECT AREA	1 WEEK
16. FINAL SEEDING AND LANDSCAPING	4 WEEKS
17. FINAL PAVEMENT COURSE	2 WEEKS

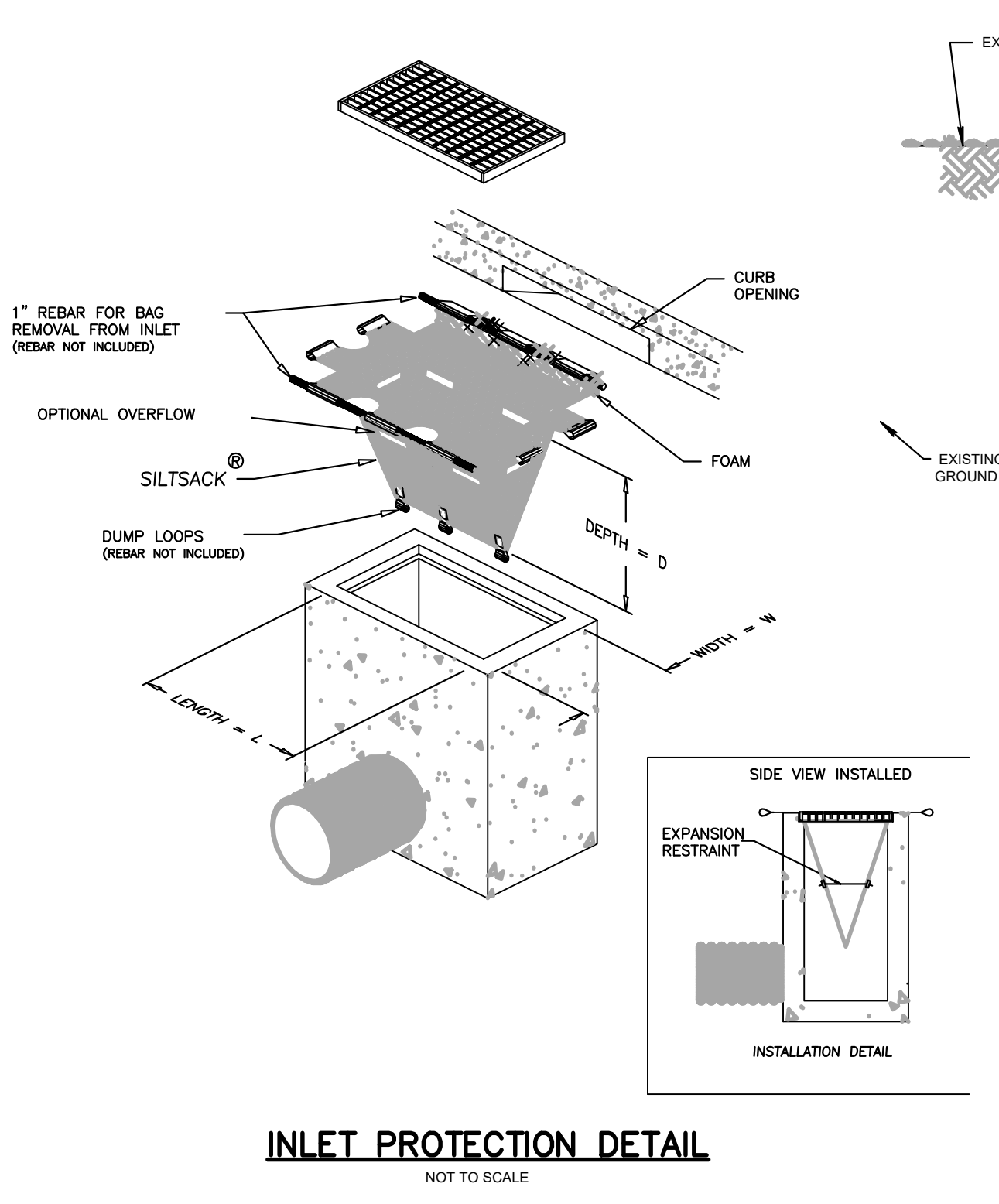
NOTE:
ITEMS WILL NEED A TEMPORARY STABILIZATION WHEN PERMANENT STABILIZATION OF THE BASIN AND THE PERMANENT STABILIZATION OF THE SITE. THE BASIN SHALL INITIALLY BE CUT DOWN TO TOP OF SOIL ELEVATION AND THE INVERTS COVERED WITH FILTER FABRIC. UPON COMPLETION OF THE DRAINAGE AREAS BEING STABILIZED THE BASIN SHALL BE CUT DOWN TO PROPOSED ELEVATION AND SAND BOTTOM TO BE INSTALLED.



SILT FENCE
NOT TO SCALE



STOCKPILE AREA
NOT TO SCALE



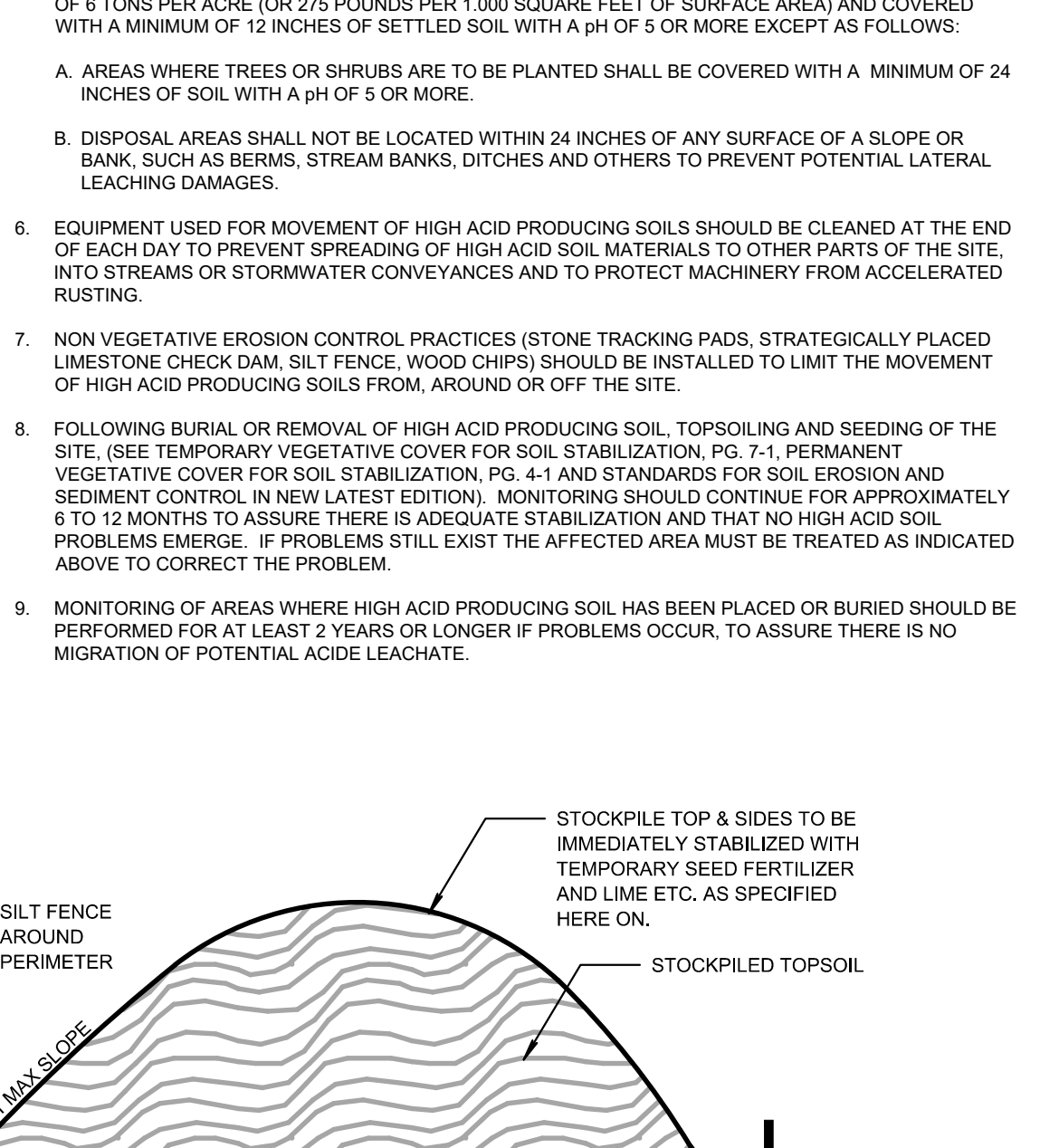
INLET PROTECTION DETAIL
NOT TO SCALE

SPPP REQUIRED INSPECTIONS AND REPORTS

1. ROUTINE INSPECTIONS
 - A. THE PERMITTEE SHALL CONDUCT AND DOCUMENT ROUTINE INSPECTIONS OF THE FACILITY TO A. IDENTIFY AREAS CONTRIBUTING TO THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT AND EVALUATE WHETHER THE STORMWATER POLLUTION PREVENTION PLAN (SPPP) IDENTIFIED UNDER 4. OF THE SP-CONSTRUCTION ACTIVITY STORMWATER (SP) PART 1 NARRATIVE REQUIREMENTS, INCLUDING THIS SOIL EROSION AND SEDIMENT CONTROL PLAN IS BEING PROPERLY IMPLEMENTED AND MAINTAINED, OR WHETHER ADDITIONAL MEASURES ARE NEEDED TO IMPLEMENT THE SPPP. (ROUTINE INSPECTIONS MINIMUM WEEKLY).
 - B. HIGH ACID PRODUCING SOILS WITH A pH OF 4 OR LESS, OR CONTAINING IRON SULFIDE, (INCLUDING BORROW FROM CUTS) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT A RATE OF 4 TONS PER ACRE OR 275 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A pH OF 6 OR MORE EXCEPT AS FOLLOWS.
 - C. HIGH ACID PRODUCING SOILS WITH A pH OF 4 OR LESS, OR CONTAINING IRON SULFIDE, (INCLUDING BORROW FROM CUTS) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT A RATE OF 4 TONS PER ACRE OR 275 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A pH OF 6 OR MORE EXCEPT AS FOLLOWS.
2. OTHER RECORD-KEEPING REQUIREMENTS
 - A. THE CONTRACTOR SHALL KEEP THE FOLLOWING RECORDS RELATED TO CONSTRUCTION ACTIVITIES AT THE SITE:
 - DATES WHEN MAJOR GRADING ACTIVITIES OCCUR AND THE AREAS WHICH WERE GRADED
 - DATES AND DETAILS CONCERNING THE INSTALLATION OF STRUCTURAL CONTROLS
 - DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA
 - DATES WHEN AN AREA IS STABILIZED, EITHER TEMPORARILY OR PERMANENTLY
 - DATES OF RAINFALL AND THE AMOUNT OF RAINFALL.
 - DATES AND DESCRIPTIONS OF THE CHARACTER AND AMOUNT OF ANY SPILLS OF HAZARDOUS MATERIALS
 - RECORDS OF REPORTS FILED WITH REGULATORY AGENCIES IF REPORTABLE QUANTITIES OF HAZARDOUS MATERIALS (SPILLED)
 - A VISIBLE SIGN SHALL BE POSTED ON THE SITE TO IDENTIFY THE LOCATION OF SPPP
3. ANNUAL REPORTS AND CERTIFICATIONS
 - A. THE PERMITTEE SHALL PREPARE AN ANNUAL REPORT SUMMARIZING EACH INSPECTION PERFORMED UNDER 1.A. ABOVE. THIS REPORT SHALL BE ACCOMPANIED BY AN ANNUAL CERTIFICATION, ON A FORM PROVIDED BY THE DISTRICT, THAT THE FACILITY IS IN COMPLIANCE WITH ITS SPPP AND THAT THERE ARE NO INCIDENTS OF NONCOMPLIANCE. THOSE INCIDENTS SHALL BE IDENTIFIED IN THE CERTIFICATION. IF THERE ARE INCIDENTS OF NONCOMPLIANCE, THE REPORT SHALL IDENTIFY THE STEPS BEING TAKEN TO REMEDY THE NONCOMPLIANCE AND TO PREVENT SUCH INCIDENTS FROM RECURRING. THE REPORT AND CERTIFICATION SHALL BE SIGNED AND DATED BY THE PERMITTEE IN ACCORDANCE WITH N.J.A.C. 7:44-4.9 AND SHALL BE MAINTAINED FOR A PERIOD OF AT LEAST FIVE YEARS ALONG WITH COPIES OF ALL INSPECTION REPORTS AND RECORD KEEPINGS. THIS PERIOD MAY BE EXTENDED BY WRITTEN REQUEST FROM THE DEPARTMENT AT ANY TIME (SEE N.J.A.C. 7:44-6.5).
4. REPORTS OF NONCOMPLIANCE
 - A. ALL INSTANCES OF NONCOMPLIANCE NOT REPORTED UNDER N.J.A.C. 7:44-6.10 SHALL BE REPORTED TO THE DEPARTMENT ANNUALLY.
5. NOTIFICATION OF COMPLETION
 - A. THE SOIL CONSERVATION DISTRICT WILL PROVIDE THE DEPARTMENT A COPY OF THE REPORT OF COMPLIANCE ISSUED UNDER N.J.A.C. 2:90-1 FOR COMPLETED CONSTRUCTION ACTIVITIES, EXCEPT SINGLE FAMILY HOME CONSTRUCTION UNDER B. BELOW. THE REPORT OF COMPLIANCE SHALL SERVE AS THE NOTIFICATION OF COMPLETION.
 - B. THE BUILDER OF A SINGLE FAMILY HOME THAT IS AUTHORIZED UNDER THIS PERMIT, BUT NOT WITHIN THE DEFINITION OF "PROJECT" AT N.J.S.A. 4:24-10, SHALL SEND A COPY OF THE FINAL CERTIFICATE OF OCCUPANCY TO THE SOIL CONSERVATION DISTRICT. THE SOIL CONSERVATION DISTRICT WILL PROVIDE A COPY OF THE FINAL CERTIFICATE OF OCCUPANCY TO THE DEPARTMENT, WHICH WILL SERVE AS NOTIFICATION OF COMPLETION.
 - C. THE DOT SHALL PROVIDE WRITTEN NOTIFICATION TO THE DEPARTMENT WHEN DOT CERTIFIED PROJECTS ARE COMPLETED.

MITIGATION NOTES FOR ACIDIC SOIL

1. LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID PRODUCING SOILS ARE ENCOUNTERED.
2. TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARILY STOCKPILED HIGH ACID PRODUCING SOILS.
3. STOCKPILES OF HIGH ACID PRODUCING SOILS SHOULD BE LOCATED ON LEVEL LAND TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY CONTENT.
4. TEMPORARILY STOCKPILED HIGH ACID PRODUCING SOIL MATERIAL TO BE EXPOSED MORE THAN 30 DAYS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IF NOT POSSIBLE, STOCKPILES SHALL BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO MINIMIZE EROSION OF THE STOCKPILE. SILT FENCE SHALL BE INSTALLED AT THE TOP OF SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL. TOPSOIL SHALL BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH ACID PRODUCING SOIL.
5. HIGH ACID PRODUCING SOILS WITH A pH OF 4 OR LESS, OR CONTAINING IRON SULFIDE, (INCLUDING BORROW FROM CUTS) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT A RATE OF 4 TONS PER ACRE, OR 275 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A pH OF 6 OR MORE EXCEPT AS FOLLOWS:
 - A. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF 24 INCHES OF SOIL WITH A pH OF 6.5 OR MORE.
 - B. DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF A SLOPE OF A SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES AND OTHERS TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.
6. EQUIPMENT USED FOR MOVEMENT OF HIGH ACID PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID SOIL MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS OR STORMWATER CONVEYANCES AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING.
7. NON VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAMS, SILT FENCE, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID PRODUCING SOILS FROM AROUND OR OFF THE SITE.
8. FOLLOWING BURIAL OR REMOVAL OF HIGH ACID PRODUCING SOIL, TOPSOILING AND SEEDING OF THE SITE, (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, PG. 7). PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, PG. 4.) AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, IN NEW LATEST EDITION, MONITORING SHOULD CONTINUE FOR APPROXIMATELY 6 TO 12 MONTHS TO ASSURE THERE IS NO REGULATE STABILIZATION AND THAT NO HIGH ACID SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST THE AFFECTED AREA MUST BE TREATED AS INDICATED ABOVE TO CORRECT THE PROBLEM.
9. MONITORING OF AREAS WHERE HIGH ACID PRODUCING SOIL HAS BEEN PLACED OR BURIED SHOULD BE PERFORMED FOR AT LEAST 2 YEARS OR LONGER IF PROBLEMS OCCUR, TO ASSURE THERE IS NO MIGRATION OF POTENTIAL ACID LEACHATE.



IRIPRAP SPECIFICATIONS

IRIPRAP GRADATION

- THE RIPRAP SHALL BE COMPOSED OF WELL-GRADED MIXTURE SUCH THAT 50% OF THE MIXTURE BY WEIGHT SHALL BE LARGER THAN THE #50 SIZE AS DETERMINED FROM THE DESIGN PROCEDURE. A WELL-GRADED MIXTURE AS USED HEREIN IS DEFINED AS A MIXTURE COMPOSED PRIMARILY OF THE LARGER STONE SIZES BUT WITH A SUFFICIENT MIXTURE OF OTHER SIZES TO FILL THE PORES BETWEEN THE SMALLER Voids BETWEEN THE STONES. THE DIAMETER OF THE LARGEST STONE SIZE IN SUCH A MIXTURE SHALL BE 1.5 TIMES THE #50 SIZE, THE #75 SHOULD BE 1.25 TIMES THE #50 AND THE #150 SHOULD BE 0.5 TIMES THE #50 SIZE.
- THE DESIGNER AFTER DETERMINING THE RIPRAP SIZE THAT WILL BE STABLE UNDER THE FLOW CONDITION SHALL CONSIDER THAT SIZE TO BE A MINIMUM SIZE AND THEN, BASED ON RIPRAP GRADATIONS ACTUALLY AVAILABLE IN THE AREA SELECT THE SIZE THAT IS NEAREST TO AND IN COMPLIANCE WITH THIS PERMIT. THE POSSIBILITY OF VANDALISM SHALL BE CONSIDERED BY THE DESIGNER IN SELECTING A RIPRAP SIZE. IF THE RIPRAP IS INCREASED, THE APPROX THICKNESS SHALL BE INCREASED PROPORTIONATELY.
- FILTER**
SYNTHETIC FILTER FABRIC SHALL MEET THE U.S. ARMY CORPS OF ENGINEERS GUIDE SPECS, GQ0212C, NOVEMBER 1977 FOR STRENGTH. RIPRAP THAT IS 12" AND LARGER SHALL NOT BE DUMPED DIRECTLY ONTO SYNTHETIC FILTER CLOTH UNLESS THE MANUFACTURER RECOMMENDS SUCH USE OF THE CLOTH. OTHERWISE, A 4" MINIMUM THICKNESS BLANKET OF GRAVEL SHALL BE PLACED DIRECTLY ON THE FILTER CLOTH BY HAND OR BY THE BUCKET OF THE EQUIPMENT.
- QUALITY**
STONE FOR RIPRAP SHALL CONSIST OF FIELD STONE OR QUARRY STONE OF APPROXIMATELY RECTANGULAR SHAPE. THE STONE SHALL BE HARD AND ANGULAR AND OF SUCH QUANTITY THAT IT WILL NOT DISINTEGRATE ON EXPOSURE TO WATER OR WEATHERING. THE SPECIFIC GRAVITY ON THE INDIVIDUAL STONES SHALL BE AT LEAST 2.5.
RUBBLE CONCRETE MAY BE USED PROVIDED IT HAS A DENSITY OF AT LEAST 150 POUNDS PER CUBIC FOOT, AND OTHERWISE MEETS THE REQUIREMENTS OF THIS STANDARD.

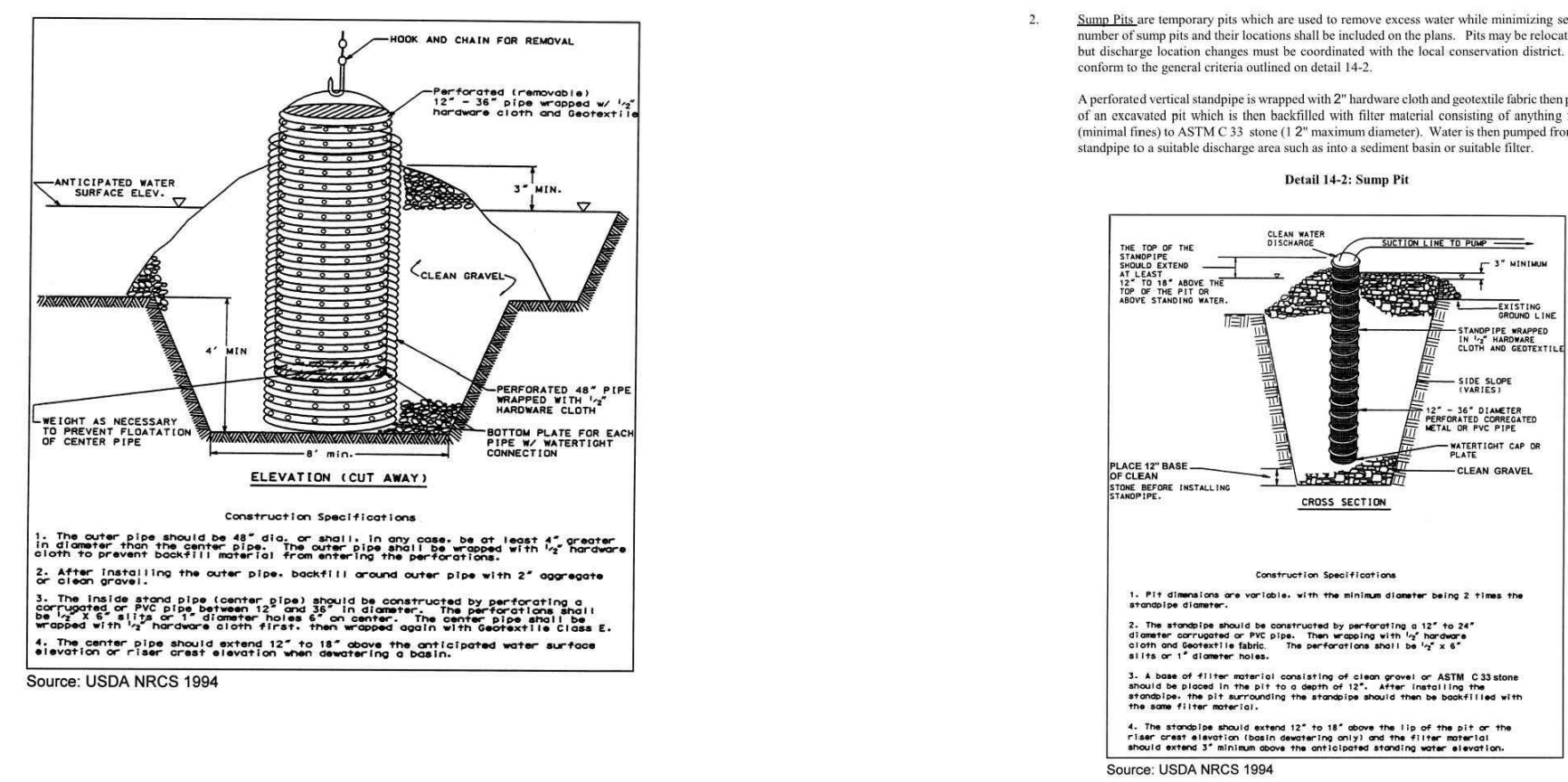
PERMANENT SEED MIX:

- 70% TURF TYPE TALL FESCUE
- 20% PERENNIAL RYE GRASS
- 10% KENTUCKY BLUEGRASS
- APPLY AT TOTAL RATE OF 200LB/ACRE

CONSTRUCTION SITE WASTE CONTROL COMPONENT OF THE STORMWATER POLLUTION PREVENTION PLAN (SPPP)

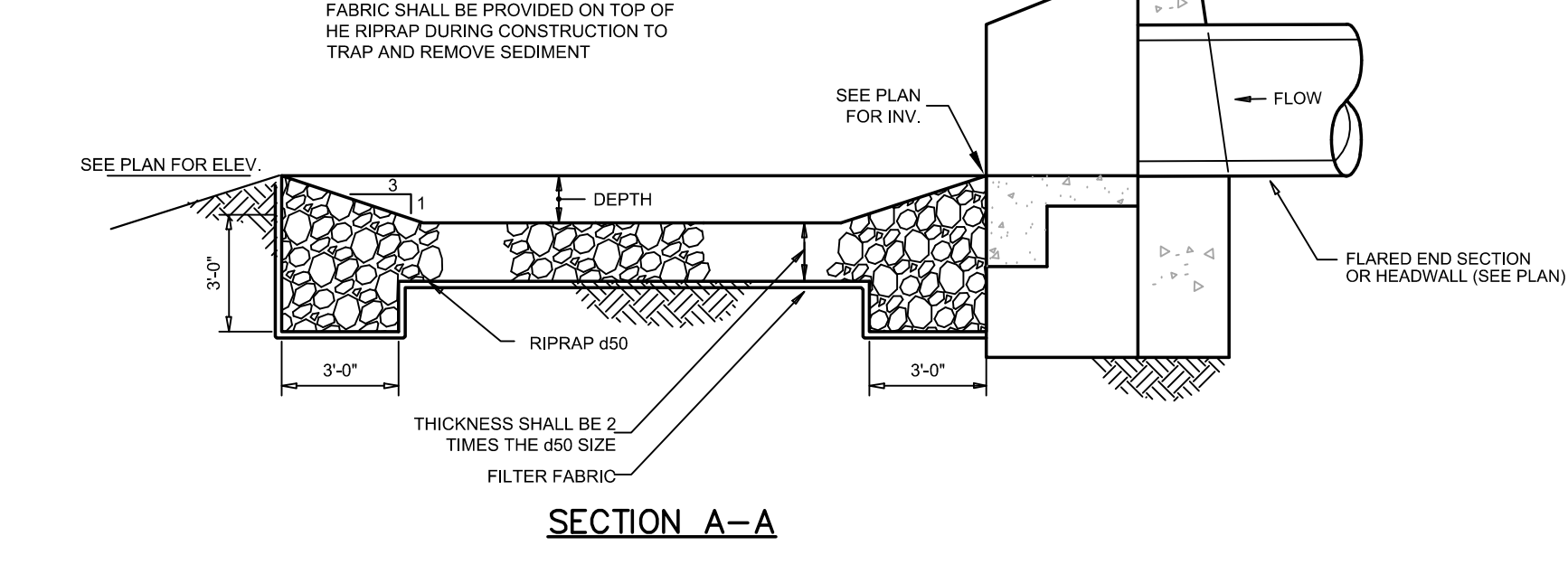
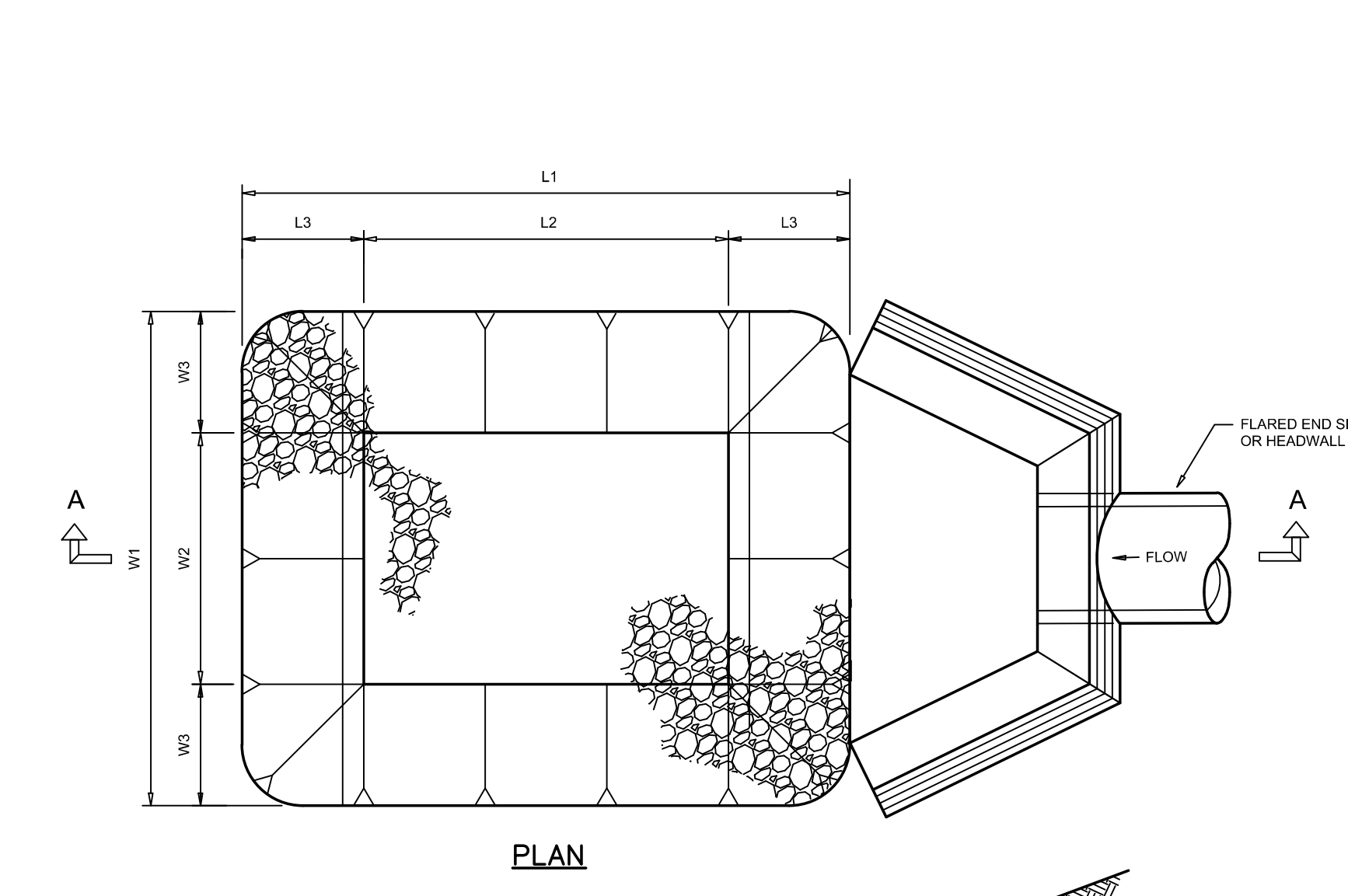
(THIS IS FOR CONSTRUCTION WASTE ONLY)

1. THE CONSTRUCTION SITE WASTE CONTROL COMPONENT OF THE SPPP CONSISTS OF THE REQUIREMENT IN 2., 3. AND 4. BELOW. THESE REQUIREMENTS BECOME OPERATIVE ON MARCH 3, 2004 AND APPLY TO CONSTRUCTION ACTIVITIES THAT COMMENCE ON OR AFTER MARCH 3, 2004. ANY NEW CONSTRUCTION ACTIVITY FOR WHICH AN RFA IS SUBMITTED ON OR AFTER MARCH 3, 2004 OR WHICH WILL RECEIVE AUTOMATIC RENEWAL OR AUTHORIZATION UNDER THIS PERMIT AFTER MARCH 3, 2004 ALSO SHALL COMPLY WITH THESE REQUIREMENTS.
2. MATERIAL MANAGEMENT TO PREVENT OR REDUCE WASTE - ANY PESTICIDES, FERTILIZERS, FUELS, LUBRICANTS, PETROLEUM PRODUCTS, ANTIFREEZE, PAINTS AND PAINT THINNERS, CLEANING SOLVENTS AND ACIDS, DEFERENTS, CHEMICAL ADDITIVES, AND CONCRETE CURING COMPOUNDS SHALL BE STORED IN CONTAINERS IN A DRY COVERED AREA. MANUFACTURER'S RECOMMENDED APPLICATION RATES, USES, AND METHODS SHALL BE FOLLOWED TO THE EXTENT NECESSARY TO PREVENT OR MINIMIZE THE PRESENCE OF WASTE FROM SUCH MATERIALS IN THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT. THE PRECISE SENTENCE DOES NOT APPLY TO ANY MANUFACTURER'S RECOMMENDATIONS ABOUT FERTILIZERS OR OTHER MATERIAL THAT CONFLICT WITH THE EROSION AND SEDIMENT CONTROL COMPONENT OF THE FACILITY'S SPPP.
3. WASTE HANDLING - THE FOLLOWING REQUIREMENTS APPLY ONLY TO CONSTRUCTION SITE WASTE THAT HAS THE POTENTIAL TO BE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT. THE HANDLING AT THE CONSTRUCTION SITE OF WASTE BUILDING MATERIAL AND RUBBLE AND OTHER CONSTRUCTION SITE WASTES, INCLUDING LITTER AND HAZARDOUS AND SANITARY WASTES, SHALL CONFORM WITH THE STATE SOLID WASTE MANAGEMENT ACT, N.J.S.A. 13:1E, ET SEQ., AND ITS IMPLEMENTING RULES AT N.J.A.C. 7:26, 7:28A, AND 7:26D. THE NEW JERSEY PESTICIDE CONTROL CODE AT N.J.A.C. 7:30, THE STATE LITTER STATUTE AT N.J.S.A. 13:16-93, AND OSHA REQUIREMENTS FOR SANITATION AT 29 C.F.R., 1908 EXCEPT WHERE SUCH CONFORMANCE IS NOT RELEVANT TO THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT. CONSTRUCTION SITE WASTE SHALL HAVE ONE OR MORE DESIGNATED WASTE COLLECTION AREAS ONSITE OR ADJACENT TO THE SITE, AND AN ADEQUATE NUMBER OF CONTAINERS (WITH LIDS OR COVERS) FOR WASTE. WASTE SHALL BE COLLECTED FROM SUCH CONTAINERS BEFORE THEY OVERFLOW, AND SPILLS AT SUCH CONTAINERS SHALL BE CLEANED UP IMMEDIATELY.



REMOVABLE PUMPING STATION (LONG DURATION DEWATERING)

SUMP PIT (SHORT DURATION DEWATERING)



PREFORMED SCOUR HOLE DIMENSIONS

NOTE: RIPRAP SHALL CONFORM TO STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

Table 19-1 - Maximum Dry Bulk Densities (grams/cubic centimeter) by soil type

PIPE SIZE (IN)	RIPRAP #50 (IN)	DEPTH (FT.)	Soil Type/Terrace										
			L1	L2	L3	W1	W2	W3	W4	W5			
15	6	0.0	7.6	3.8	1.9	6.3	2.5	1.9					
18	6	0.75	9	4.5	2.25	7.5	3	2.25					
24	6	1	12	6	3	10	4	3					
30	6	1.25	15	7.5	3.75	12.5	5	3.75					
36	6	1.5	18	9	4.5	15	6	4.5					
42	6	1.75	21	10.5	5.25	17.5	7	5.25					

1. Probing Wire Test Method
 - This test shall be conducted with a firm wire (15-1/2 gauge steel wire - e.g. survey marker flag, straight wire stock, etc.), 18 to 21 inches in length, with 6" inches from one end visibly marked on the wire. Conduct wire flag test by holding the wire flag near the flag end and push it vertically into the soil at several different locations in the field to the lesser of a 6 inch depth or the depth at which it bends due to resistance in the soil. Record the depth at which it bends due to resistance in the soil. The wire should penetrate without bending or deforming at least 6" into the ground by hand, without the use of tools. If penetration fails and an obstruction is suspected (rocks, root, debris, etc.) the test can be repeated in the same general area. If the test is successful the soil is not excessively compacted. If the wire is difficult to insert (wire bends or deforms prior to reaching 6 inches in depth) the soil may be excessively compacted and compaction mitigation or further testing via method 3 or 4 below is required, the choice of which is at the contractor/owner's discretion.
2. Handheld Soil Penetrometer Test Method
 - This test shall be conducted based on the Standard Procedure (SOP) #RCE2010-001, prepared by the Rutgers Cooperative Extension, Implemented June 1, 2010, last revised February 28, 2011. A soil result of less than or equal to 300 psi shall be considered passing. If the result is greater than 300 psi the soil may be excessively compacted and compaction mitigation or further testing via method 3 or 4 below is required, the choice of which is at the contractor/owner's discretion.
3. Tube Bulk Density Test Method
 - This test shall be certified by a New Jersey Licensed Professional Engineer utilizing only undisturbed samples (reconstruction of the sample not permitted) collected utilizing the procedure for Soil Bulk Density Tests as described in the USDA NRCS Soil Quality Test Kit Guide, Section 1-4, July 2001. When the texture of the soil to be tested is a sand or loamy sand and back soil cohesion or the presence of large amounts of coarse fragments, roots or worm channels prevent the taking of undisturbed samples, this test shall be used.
 - Where the results of replicate tests differ by more than ten percent (10%), the samples shall be examined for the following defects:
 - i. Cracks, worm channels, large root channels or poor soil tube contact within the samples;
 - ii. Large pieces of gravel, roots or other foreign objects;
 - iii. Smearing or compaction of the upper or lower surface of the samples.
 If any of the defects described in 3-(iii) above are found, the defective core(s) shall be discarded and the test repeated using a new replicate sample for each defective replicate sample. The bulk density (defined as the weight of dry soil per volume) results shall be compared with the Maximum Dry Bulk Densities in Table 19-1. A result of less than or equal to the applicable maximum bulk density shall be considered passing. If the result is greater than the maximum bulk density the soil shall be considered excessively compacted and compaction mitigation is required.
4. Nuclear Density Test Method
 - This test shall be certified by a New Jersey Licensed Professional Engineer and conducted by a nuclear gauge certified inspector pursuant to ASTM D6939. The bulk density measurement results shall be compared with the Maximum Dry Bulk Densities in Table 19-1. A result of less than or equal to the applicable maximum bulk density shall be considered passing. If the result is greater than the maximum bulk density the soil shall be considered excessively compacted and compaction mitigation is required.

STANDARD FOR STORM SEWER INLET PROTECTION

DEFINITION
A TEMPORARY BARRIER AND SETTING FACING INSTALLED AT A STORM SEWER INLET.
PURPOSE
THE PURPOSE OF STORM SEWER INLET PROTECTION IS TO INTERCEPT AND RETAIN SEDIMENT, THUS PREVENTING THE ENTRANCE OF SEDIMENT INTO THE STORM SEWER SYSTEM.
CONDITIONS WHERE PRACTICE APPLIES
1. CONTRIBUTING DRAINAGE AREA IS 3 ACRES OR LESS.
2. A STORM SEWER OR THE OUTLET CHANNEL OF A STORM SEWER NEEDS PROTECTION FROM SEDIMENT.
3. TRAFFIC WILL NOT DESTROY OR CAUSE CONSTANT MAINTENANCE OF THE STORM SEWER INLET PROTECTION.
4. A TRAFFIC HAZARD WILL NOT BE CREATED.
5. A FLOODING PROBLEM WILL NOT BE CREATED.

WATER QUALITY ENHANCEMENT

THE PRIMARY BENEFIT TO WATER QUALITY IS REMOVAL OF SEDIMENT FROM STORMWATER RUNOFF PRIOR TO ENTERING THE STORM SEWER SYSTEM AS AN ADDED BENEFIT OTHER FLOATABLE DEBRIS, SUCH AS VEGETATIVE MATTER AND LITTER, MAY ALSO BE FILTERED OUT OF THE RUNOFF.

DESIGN CRITERIA

1. THE FOLLOWING APPLIED TO ALL STORM SEWER INLET PROTECTION MUST SLOW THE STORM WATER, PROVIDE THE COARSEST SEDIMENT TO BE SETTLED, AND PROVIDE AN AREA TO RETAIN THE PARTICLES THAT HAVE SETTLED. IN ALL CASES, THE INLET PROTECTION SHOULD NOT BE THE POINT OF THE RUNOFF.
2. CLOSE OFF THE INLET, THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR
3. FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGH FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.

ADDITIONAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. THE PROPERTY OWNERS SHALL ASSUME THE RESPONSIBILITY AFTER CONSTRUCTION IS COMPLETED AND CERTIFICATES OF OCCUPANCY ARE ISSUED.
2. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED AS DIRECTED BY THE DISTRICT INSPECTOR.
3. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ROADWAYS CLEAN AT ALL TIMES. ANY SEDIMENT SPILLED OR TRACKED ON THE ROADWAY WILL BE CLEANED UP IMMEDIATELY. THE CLEAN UP MUST BE AT A MINIMUM BY THE END OF EACH WORK DAY.
4. STEEP SLOPES TO RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SUITABLE EQUIVALENT (SEE ANCHORING NOTES # NOTE NO. 6 OF SOIL EROSION & SEDIMENT CONTROL NOTES).
5. BERMS AND SLOPED AREAS ALONG THE ROAD SHALL BE BROUGHT TO GRADE AND STABILIZED AS SOON AS POSSIBLE.
6. THE CONTRACTOR SHALL PROVIDE ADDITIONAL ROWS OF SEDIMENT BARRIER (SILT FENCING, HAY BALES OR STONE BERM) AS NECESSARY DURING THE COURSE OF CONSTRUCTION SUCH THAT THE CONTRIBUTION DRAINAGE AREA IS LESS THAN 1 ACRE AND THE LENGTH OF SLOPE ABOVE THE BARRIER IS LESS THAN 150'.
7. THE BASIN SHALL NOT BE UTILIZED AS A SEDIMENT BARRIER DURING CONSTRUCTION. INLET PROTECTION SHALL BE MAINTAINED DURING CONSTRUCTION AND ANY DEVENTED OPERATIONS SHALL DISCHARGE INTO SEDIMENT CONTROL BAGS.

DUST CONTROL NOTE

DUST GENERATION SHALL BE CONTROLLED ON A CONSTANT BASIS BY WETTING THE SURFACE AND/OR APPLICATION OF CALCIUM CHLORIDE.

Bowman
Professional Engineers, Inc.
435 W. Main Street, Suite 200
Hamilton, NJ 08602
Phone: 732-666-5000
Fax: 732-666-5001
NJ Certificate of Authorization No. 24G00022000
Professional Engineer No. 24G0043400
James M. Ward, N.J. Professional Engineer No. 24G0043400

AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
SOIL EROSION AND SEDIMENT CONTROL DETAILS
SHEET No. 10 OF
FOR BID OR CONSTRUCTION

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

Definition
Establishment of permanent vegetative cover on exposed soils where perennial vegetation is needed for long-term protection.

Purpose
To permanently stabilize the soil, ensuring conservation of soil and water, and to enhance the environment.

Water Quality Enhancement
Slows the over-land movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

Where Applicable
On exposed soils that have a potential for causing off-site environmental damage.

- Methods and Materials**
- Site Preparation**
 - Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standard for Land Grading.
 - Immediately prior to seeding and topsoil application, the subsoil shall be evaluated for compaction in accordance with the Standard for Land Grading.
 - Topsoil should be handled only when it is dry enough to work without damaging the soil structure. A uniform application to a depth of 5 inches (unsettled) is required on all sites. Topsoil shall be amended with organic matter, as needed, in accordance with the Standard for Topsoiling.
 - Install needed erosion control practices or facilities such as diversions, grade-stabilization structures, channel stabilization measures, sediment basins, and waterways.
 - Seedbed Preparation**
 - Uniformly apply ground limestone and fertilizer to topsoil which has been spread and firmed, according to soil test recommendations such as offered by Rutgers Co-operative Extension. Soil sample mailers are available from the local Rutgers Cooperative Extension offices (<http://nj.rutgers.edu/county/>). Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-10-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise and incorporated into the surface 4 inches. If fertilizer is not incorporated, apply one-half the rate described above during seedbed preparation and repeat another one-half rate application of the same fertilizer within 3 to 5 weeks after seeding.
 - Work lime and fertilizer into the topsoil as nearly as practical to a depth of 4 inches with a disc, spring-tooth harrow, or other suitable equipment. The final harrowing or disking operation should be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared.
 - High acid producing soil. Soils having a pH of 4 or less or containing iron sulfide shall be covered with a minimum of 12 inches of soil having a pH of 5 or more before initiating seedbed preparation. See Standard for Management of High Acid-Producing Soils for specific requirements.
 - Seeding**
 - Select a mixture from Table 4-3 or use a mixture recommended by Rutgers Cooperative Extension or Natural Resources Conservation Service which is approved by the Soil Conservation District. Seed germination shall have been tested within 12 months of the planting date. No seed shall be accepted with a germination test date more than 12 months old unless retested.
 - Seeding rates specified are required when a report of compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in rates may be used when permanent vegetation is established prior to a report of compliance inspection. These rates apply to all methods of seeding. Establishing permanent vegetation means 80% vegetative coverage with the specified seed mixture for the seeded area and mowed once.
 - Warm-season mixtures are grasses and legumes which maximize growth at high temperatures, generally 85°F and above. See Table 4-3 mixtures 1 to 7. Planting rates for warm-season grasses shall be the amount of Pure Live Seed (PLS) as determined by germination testing results.
 - Cool-season mixtures are grasses and legumes which maximize growth at temperatures below 85°F. Many grasses become active at 65°F. See Table 4-3, mixtures 8-20. Adjustment of planting rates to compensate for the amount of PLS is not required for cool season grasses.
 - Conventional Seeding is performed by applying seed uniformly by hand, cyclone (centrifugal) seeder, drop seeder, drill or cut/packer seeder. Except for drilled, hydroseeded or cut/packer seedings, seed shall be incorporated into the soil within 24 hours of seedbed preparation to a depth of 1/4 to 1/2 inch, by raking or dragging. Depth of seed placement may be 1/4 inch deeper on coarse-textured soil.
 - After seeding, firming the soil with a corrugated roller will assure good seed-to-soil contact, restore capillarity, and improve seedling emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water conservation on site will be maximized.
 - Hydroseeding is a broadcast seeding method usually involving a truck, or trailer-mounted tank, with an agitation system and hydraulic pump for mixing seed, water and fertilizer and spraying the mix onto the prepared seedbed. Mulch shall not be included in the tank with seed. Short-fibered mulch may be applied with a hydroseeder following seeding. (also see Section 4-Mulching below). Hydroseeding is not a preferred seeding method because seed and fertilizer are applied to the surface and not incorporated into the soil. When poor seed to soil contact occurs, there is a reduced seed germination and growth.
 - Mulching**
Mulching is required on all seeding. Mulch will protect against erosion before grass is established and will promote faster and earlier establishment. The existence of vegetation sufficient to control soil erosion shall be deemed compliance with this mulching requirement.

- Straw or Hay. Unrotted small grain straw, hay free of seeds, to be applied at the rate of 1-1/2 to 2 tons per acre (70 to 90 pounds per 1,000 square feet) except that where a crimper is used instead of a liquid mulch-binder (tackifying or adhesive agent), the rate of application is 3 tons per acre. Mulch chopper-blowers must not grind the mulch. Hay mulch is not recommended for establishing fine turf or lawns due to the presence of weed seed.
 - Application - Spread mulch uniformly by hand or mechanically so that at least 85% of the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square feet sections and distribute 70 to 90 pounds within each section.
 - Anchoring shall be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area, steepness of slopes, and costs.
 - Peg and Twine. Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross and a square pattern. Secure twine around each peg with two or more round turns.
 - Mulch Nettings - Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.
 - Crimper (mulch anchoring coupler tool) - A tractor-drawn implement, somewhat like a disc harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.
 - Liquid Mulch-Binders - May be used to anchor salt hay, hay or straw mulch.
 - Applications should be heavier at edges where wind may catch the mulch, in valleys, and at crests of banks. The remainder of the area should be uniform in appearance.
 - Use one of the following:
 - Organic and Vegetable Based Binders - Naturally occurring, powder-based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turf grass. Use at rates and weather conditions as recommended by the manufacturer to anchor mulch materials. Many new products are available, some of which may need further evaluation for use in this state.
 - Synthetic Binders - High polymer synthetic emulsion, miscible with water when diluted and, following application of mulch, drying and curing, shall no longer be soluble or dispersible in water. Binder shall be applied at rates recommended by the manufacturer and remain tacky until germination of grass.
 - Note: All names given above are registered trade names. This does not constitute a recommendation of these products to the exclusion of other products.
 - Wood-fiber or paper-fiber mulch - shall be made from wood, plant fibers or paper containing no growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the product manufacturer) and may be applied by a hydroseeder.
 - Pelletized mulch - compressed and extruded paper and/or wood fiber product, which may contain co-polymers, tackifiers, fertilizers, and coloring agents. The dry pellets, when applied to a seeded area and watered, form a mulch mat. Pelletized mulch shall be applied in accordance with the manufacturer's recommendations. Mulch may be applied by hand or mechanical spreader at the rate of 60-75 lbs/1,000 square feet and activated with 0.2 to 0.4 inches of water. This material has been found to be beneficial for use on small lawn or renovation areas, seeded areas where weed-seed free mulch is desired, or on sites where straw mulch and tackifier agent are not practical or desirable. Applying the full 0.2 to 0.4 inches of water after spreading pelletized mulch on the seed bed is extremely important for sufficient activation and expansion of the mulch to provide soil coverage.
 - Irrigation (where feasible)
 - If soil moisture is deficient supply new seeding with adequate water (a minimum of 1/4 inch applied up to twice a day until vegetation is well established). This is especially true when seedings are made in abnormally dry or hot weather or on droughty sites.
 - Topdressing
- Since soil organic matter content and slow release nitrogen fertilizer (water insoluble) are prescribed in Section 2A - Seedbed Preparation in this Standard, no follow-up of topdressing is mandatory. An exception may be made where gross nitrogen deficiency exists in the soil to the extent that turf failure may develop. In that instance, topdress with 10-10-10 or equivalent at 300 pounds per acre or 7 pounds per 1,000 square feet every 3 to 5 weeks until the gross nitrogen deficiency in the turf is ameliorated.
 - Establishing Permanent Vegetative Stabilization

The quality of permanent vegetation rests with the contractor. The timing of seeding, preparing the seedbed, applying nutrients, mulch and other management are essential. The seed application rates in Table 4-3 are required when a Report of Compliance is requested prior to actual establishment of permanent vegetation. Up to 50% reduction in application rates may be used when permanent vegetation is established prior to requesting a Report of Compliance from the district. These rates apply to all methods of seeding. Establishing permanent vegetation means 80% vegetative cover (of the seeded species) and mowed once. Note this designation of mowed once does not guarantee the mulch shall not be mixed in the tank with seed. Use is limited to flatter slopes and during optimum seeding periods in spring and fall.

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

Definition
Establishment of temporary vegetative cover on soils exposed for periods of two to six months which are not being graded, not under active construction or not scheduled for permanent seeding within 60 days.

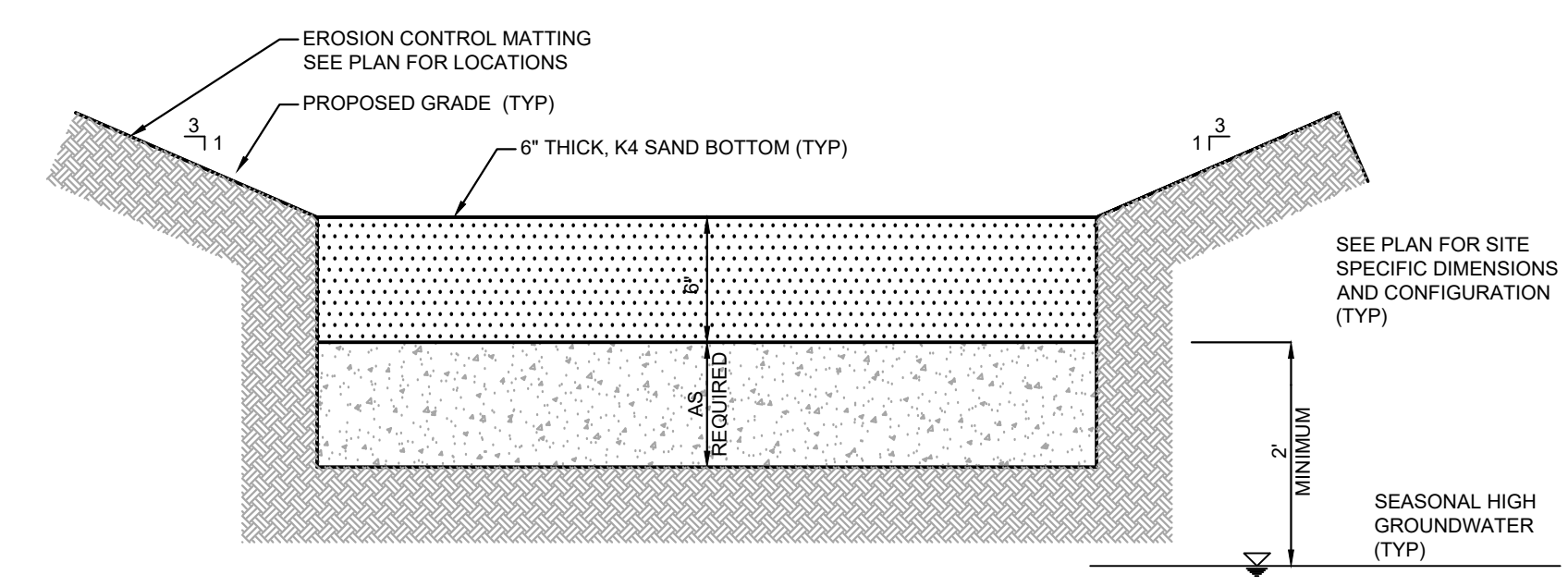
Purpose
To temporarily stabilize the soil and reduce damage from wind and water erosion until permanent stabilization is accomplished.

Water Quality Enhancement
Provides temporary protection against the impacts of wind and rain, slows the over land movement of stormwater runoff, increases infiltration and retains soil and nutrients on site, protecting streams or other stormwater conveyances.

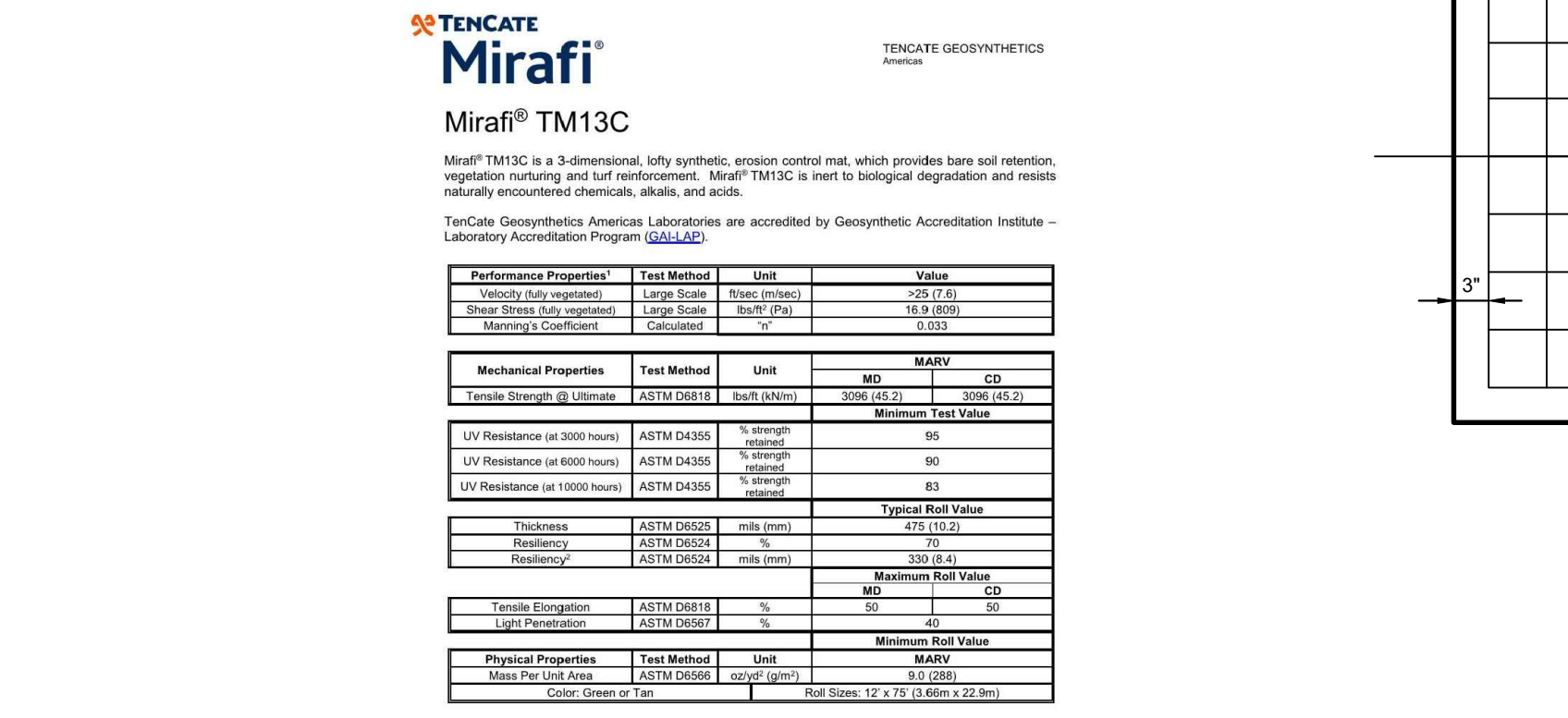
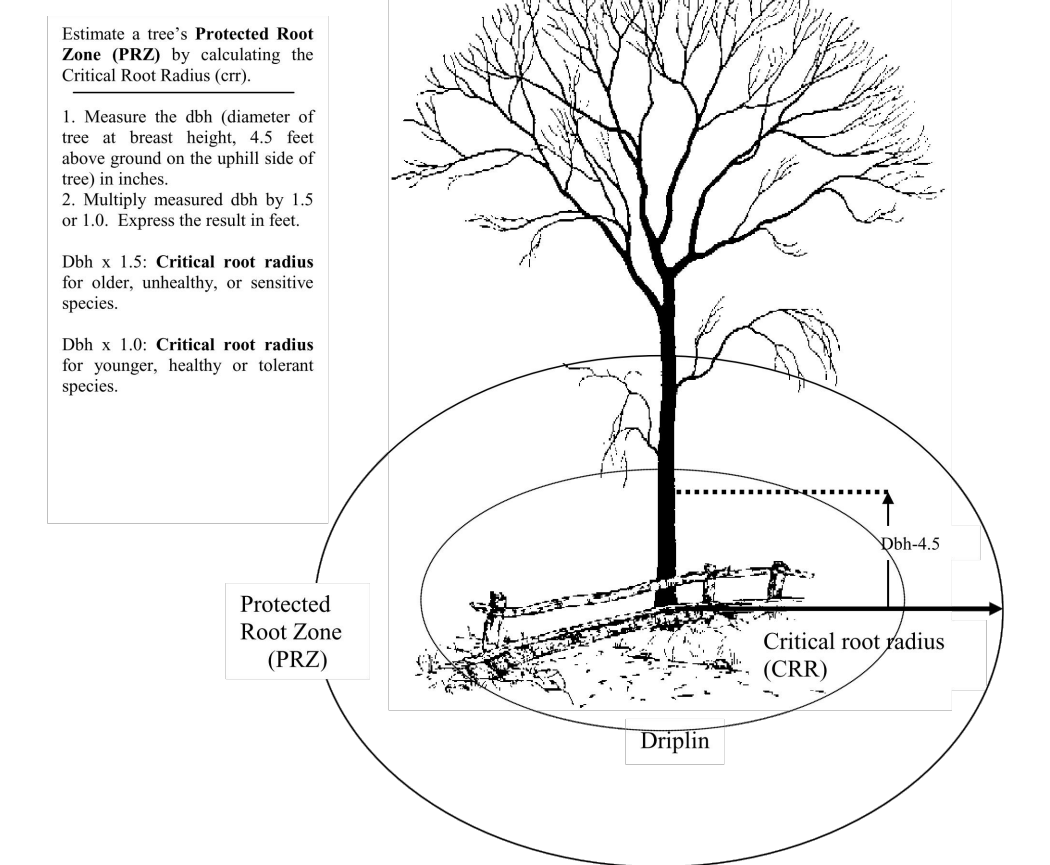
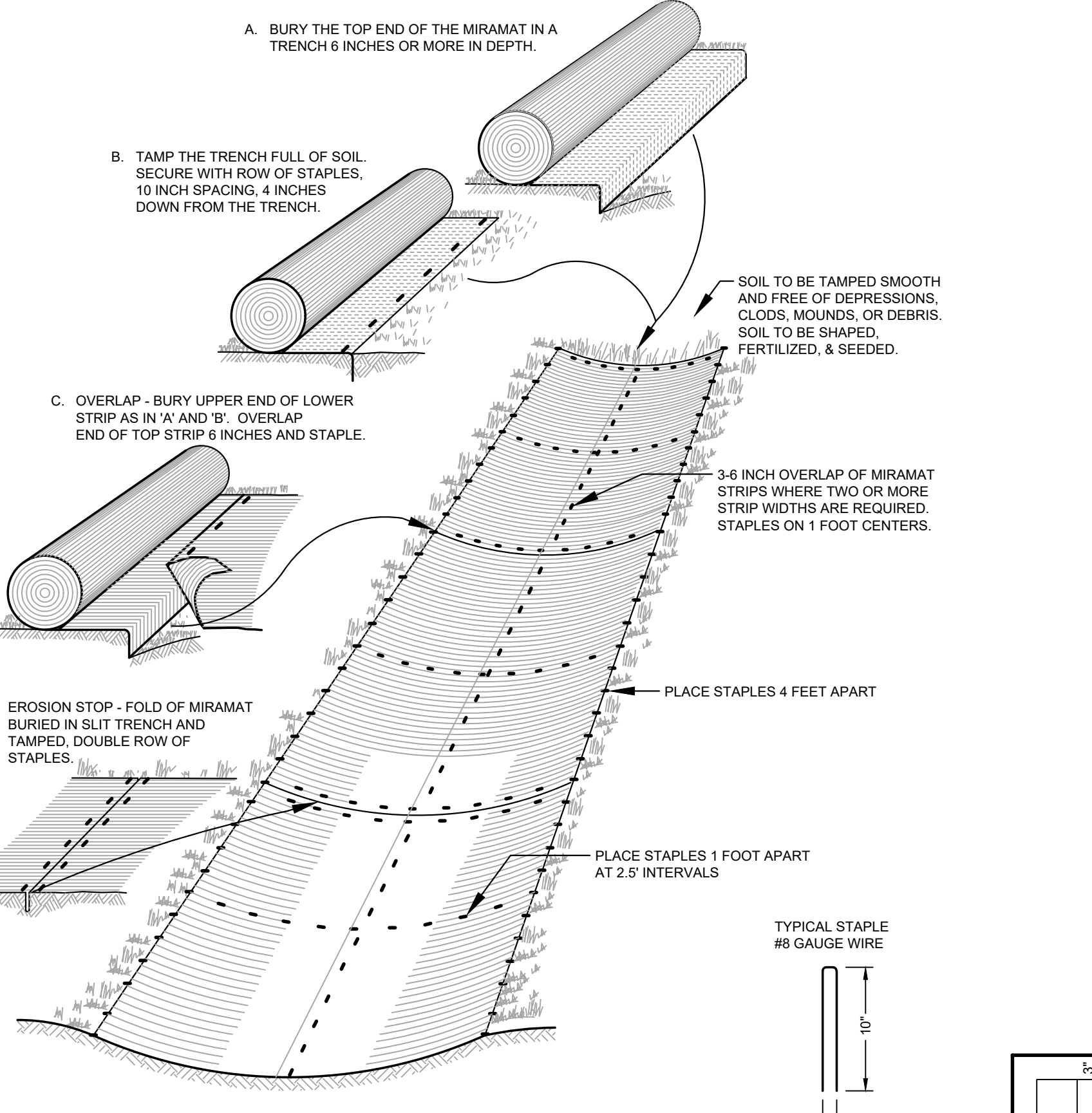
Where Applicable
On exposed soils that have the potential for causing off-site environmental damage.

Methods and Materials

- Site Preparation**
 - Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring. All grading should be done in accordance with Standards for Land Grading, pg. 19-1.
 - Install needed erosion control practices or facilities such as diversions, grade stabilization structures, channel stabilization measures, sediment basins, and waterways. See Standards 11 through 42.
 - Immediately prior to seeding, the surface should be scarified 6" to 12" where there has been soil compaction. This practice is permissible only where there is no danger to underground utilities (cables, irrigation systems, etc.).
- Seedbed Preparation**
 - Apply ground limestone and fertilizer according to soil test recommendations such as offered by Rutgers Co-operative Extension. Soil sample mailers are available from the local Rutgers Cooperative Extension offices. Fertilizer shall be applied at the rate of 500 pounds per acre or 11 pounds per 1,000 square feet of 10-20-10 or equivalent with 50% water insoluble nitrogen unless a soil test indicates otherwise. Calcium carbonate is the equivalent and standard for measuring the ability of liming materials to neutralize soil acidity and supply calcium and magnesium to grasses and legumes.
 - Work lime and fertilizer into the soil as nearly as practical to a depth of 4 inches with a disc, springtooth harrow, or other suitable equipment. The final harrowing or disking operation should be on the general contour. Continue tillage until a reasonable uniform seedbed is prepared.
 - Inspect seedbed just before seeding. If traffic has left the soil compacted, the area must be retilled in accordance with the above.
 - Soils high in sulfides or having a pH of 4 or less refer to Standard for Management of High Acid Producing Soils, pg. 1-1.
- Seeding**
 - Select seed from recommendations in Table 7-2.
 - Conventional Seeding. Apply seed uniformly by hand, cyclone (centrifugal) seeder, drop seeder, drill or cut/packer seeder. Except for drilled, hydroseeded or cut/packer seedings, seed shall be incorporated into the soil, to a depth of 1/4 to 1/2 inch, by raking or dragging. Depth of seed placement may be 1/4 inch deeper on coarse textured soil. Hydroseeding is a broadcast seeding method usually involving a truck or trailer mounted tank, with an agitation system and hydraulic pump for mixing seed, water and fertilizer and spraying the mix onto the prepared seedbed. Mulch shall not be included in the tank with seed. Short fibered mulch may be applied with a hydroseeder following seeding. (also see Section 4-Mulching below). Hydroseeding is not a preferred seeding method because seed and fertilizer are applied to the surface and not incorporated into the soil. Poor seed to soil contact occurs reducing seed germination and growth. Hydroseeding may be used for areas too steep for conventional equipment to traverse or too obstructed with rocks, stumps, etc.
 - After seeding, firming the soil with a corrugated roller will assure good seed-to-soil contact, restore capillarity, and improve seedling emergence. This is the preferred method. When performed on the contour, sheet erosion will be minimized and water conservation on site will be maximized.
- Mulching**
Mulching is required on all seeding. Mulch will insure against erosion before grass is established and will promote faster and earlier establishment. The existence of vegetation sufficient to control soil erosion shall be deemed compliance with this mulching requirement.
 - Straw or Hay. Unrotted small grain straw, hay free of seeds, applied at the rate of 1-1/2 to 2 tons per acre (70 to 90 pounds per 1,000 square feet), except that where a crimper is used instead of a liquid mulch-binder (tackifying or adhesive agent), the rate of application is 3 tons per acre. Mulch chopper-blowers must not grind the mulch. Hay mulch is not recommended for establishing fine turf or lawns due to the presence of weed seed. Application. Spread mulch uniformly by hand or mechanically so that approximately 95% of the soil surface will be covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square feet sections and distribute 70 to 90 pounds within each section. Anchoring shall be accomplished immediately after placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon the size of the area, steepness of slopes, and costs.
 - Peg and Twine. Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross and a square pattern. Secure twine around each peg with two or more round turns.
 - Mulch Nettings. Staple paper, jute, cotton, or plastic nettings to the soil surface. Use a degradable netting in areas to be mowed.
 - Crimper (mulch anchoring tool) - A tractor-drawn implement, somewhat like a disc harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright. This technique is limited to areas traversable by a tractor, which must operate on the contour of slopes. Straw mulch rate must be 3 tons per acre. No tackifying or adhesive agent is required.
 - Liquid Mulch-Binders - May be used to anchor hay or straw mulch.
 - Applications should be heavier at edges where wind may catch the mulch, in valleys, and at crests of banks. The remainder of the area should be uniform in appearance.
 - Use one of the following:
 - Organic and Vegetable Based Binders - Naturally occurring, powder based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers. The vegetable gel shall be physiologically harmless and not result in a phytotoxic effect or impede growth of turfgrass. Use at rates and weather conditions as recommended by the manufacturer to anchor mulch materials. Many new products are available, some of which may need further evaluation for use in this state.
 - Synthetic Binders - High polymer synthetic emulsion, miscible with water when diluted and following application to mulch, drying and curing shall no longer be soluble or dispersible in water. It shall be applied at rates recommended by the manufacturer and remain tacky until germination of grass.
 - Note: All names give above are registered trade names. This does not constitute a commendation of these products to the exclusion of other products.
 - Wood-fiber or paper-fiber mulch. Shall be made from wood, plant fibers or paper containing no growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the project manufacturer) and may be applied by a hydroseeder. This mulch shall not be mixed in the tank with seed. Use is limited to flatter slopes and during optimum seeding periods in spring and fall.
 - Pelletized mulch. Compressed and extruded paper and/or wood fiber product, which may contain co-polymers, tackifiers, fertilizers and coloring agents. The dry pellets, when applied to a seeded area and watered, form mulch mat. Pelletized mulch shall be applied in accordance with the manufacturer's recommendations. Mulch may be applied by hand or mechanical spreader at the rate of 60-75 lbs/1,000 square feet and activated with 0.2 to 0.4 inches of water. This material has been found to be beneficial for use on small lawn or renovation areas, seeded areas where weed-seed free mulch is desired or on sites where straw mulch and tackifier agent are not practical or desirable. Applying the full 0.2 to 0.4 inches of water after spreading pelletized mulch on the seed bed is extremely important for sufficient activation and expansion of the mulch to provide soil coverage.

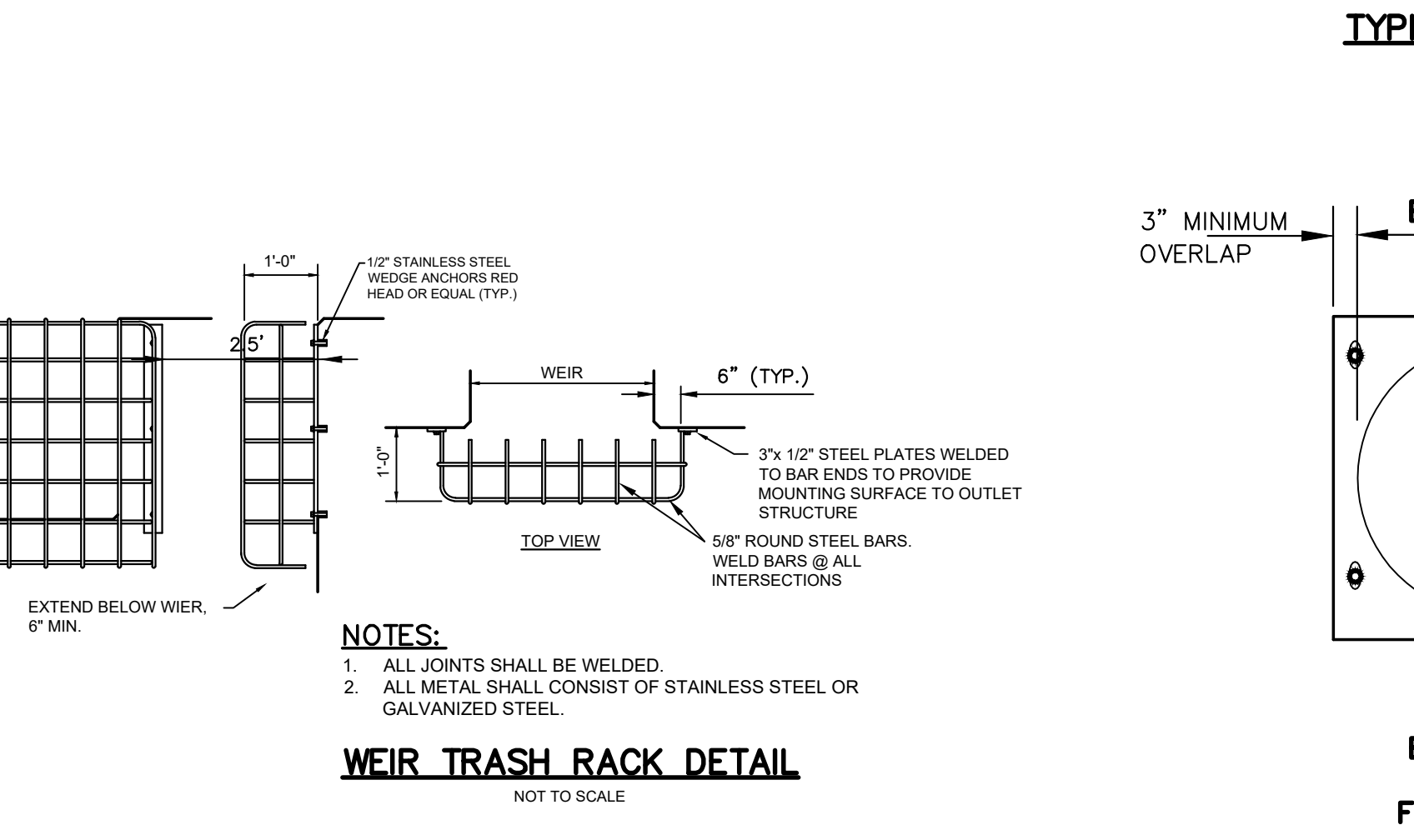


- NOTES:**
- IN FILL AND HYDROLOGICALLY RESTRICTED AREAS, CONTRACTOR SHALL PROVIDE SUITABLE ON-SITE SANDY LOAM SOILS OR IMPORTED FILL MATERIAL HAVING A PERMEABILITY GREATER THAN 3 INCHES PER HOUR.
 - CONTRACTOR SHALL PROVIDE AND ENGINEER TO APPROVE A MINIMUM OF 1 PERMEABILITY TEST PER 5,000 SQUARE FEET AT THE BOTTOM OF THE BASIN PRIOR TO THE INSTALLATION OF THE 6" THICK, K4 SAND BOTTOM.
 - ONLY LIGHT WEIGHT / TRACK MOUNTED CONSTRUCTION EQUIPMENT SHALL BE UTILIZED IN THE CONSTRUCTION OF THE INFILTRATION BASIN.
 - PRIOR TO INSTALLING THE 6" BOTTOM SAND LAYER, UPSTREAM DRAINAGE AREA SHALL BE 100% STABILIZED PER ENGINEER'S APPROVAL AND ALL ACCUMULATED SEDIMENTS SHALL BE REMOVED FROM THE BASIN.



NOTES:

- ALL JOINTS SHALL BE WELDED.
- ALL METAL SHALL CONSIST OF STAINLESS STEEL OR GALVANIZED STEEL.



NOTES:

- PRIOR TO CONSTRUCTION OF COLLAR, THE OUTSIDE OF THE PIPE SHALL BE CLEANED.
- ALL REINFORCING STEEL SHALL BE GRADE 40.
- ANTI-SEEP COLLARS SHALL BE INSTALLED ON ALL BASIN DISCHARGE PIPES IN ACCORDANCE WITH CLAY CORE DETAILS, DOWNSTREAM OF CLAY CORE. ANTI-SEEP COLLARS SHALL BE INSTALLED AT MAX. 50' INTERVALS TO DISCHARGE POINT.
- ALL DIMENSIONS APPLY FOR R.C.P., H.E.R.C.P., CONCRETE BOX CULVERTS, ETC.



THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

REVISION

NO.	DATE	DESCRIPTION
1	11/16/22	REV PER TRC COMMENTS
2	12/19/22	REV PER 2nd ROUND TRC COMMENTS

REVISION

NO.	DATE	DESCRIPTION
1	11/16/22	REV PER TRC COMMENTS
2	12/19/22	REV PER 2nd ROUND TRC COMMENTS

PROJ. 086823-02-001
CHD, VVV
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 Bowman Consulting Group, Ltd.
 Phone: 732-686-5501
 Fax: 732-686-5501
 NJ Certificate of Registration: 24GED04342400
 James M. Ward, N.J. Professional Engineer

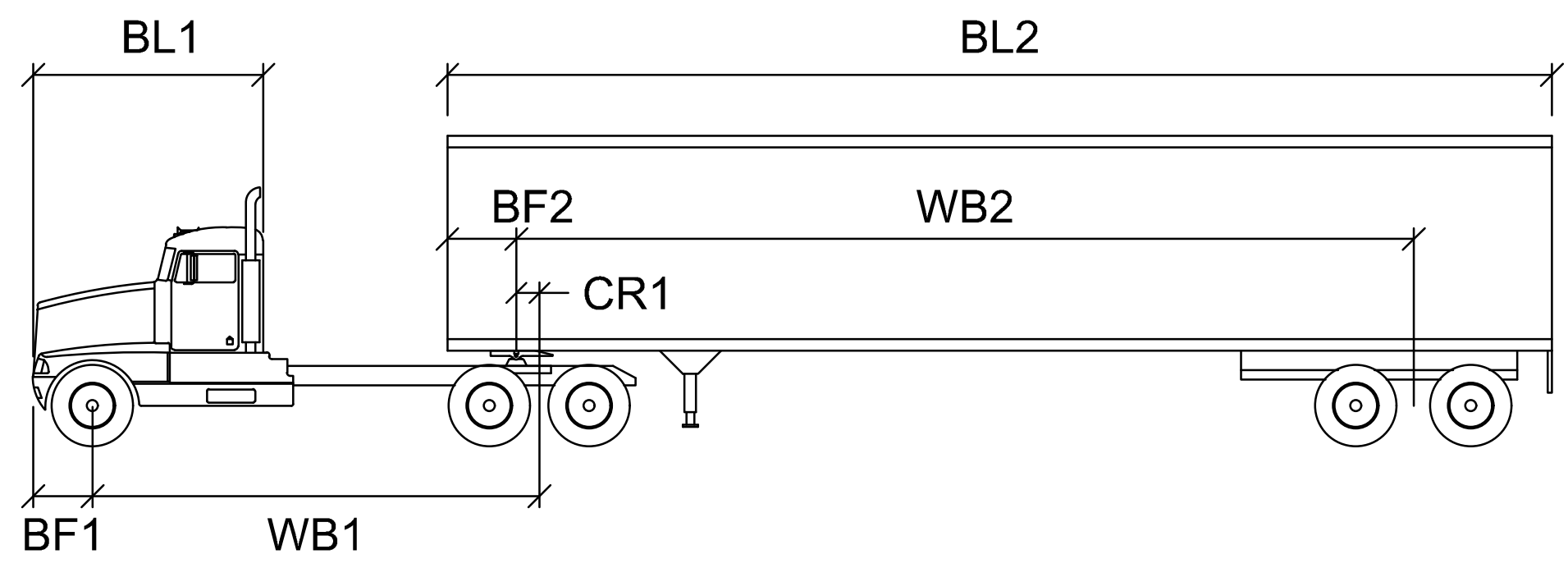
AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
SOIL EROSION AND SEDIMENT CONTROL DETAILS

TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY

BLOCK 6, LOTS 12, 01, and 12 011

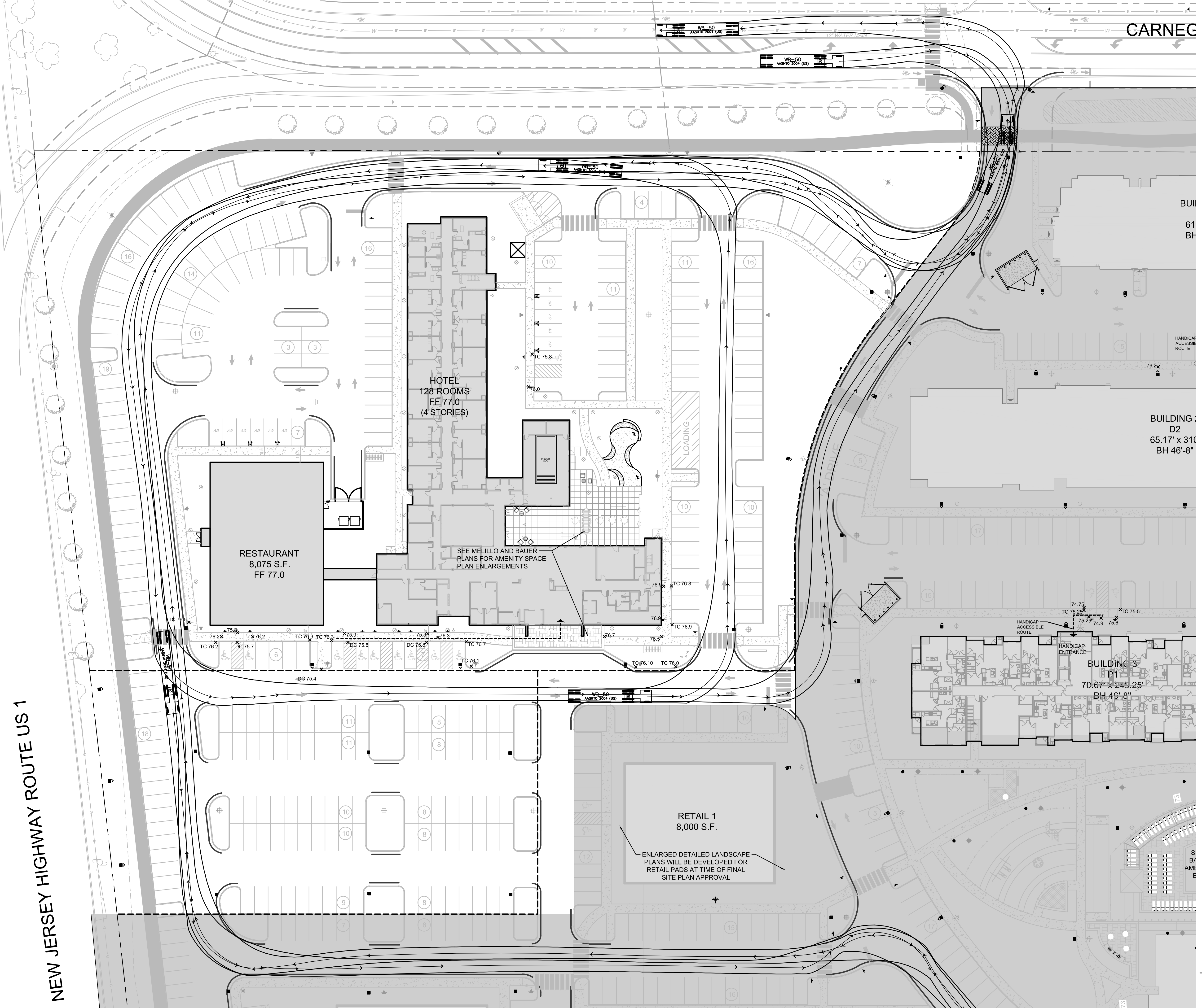
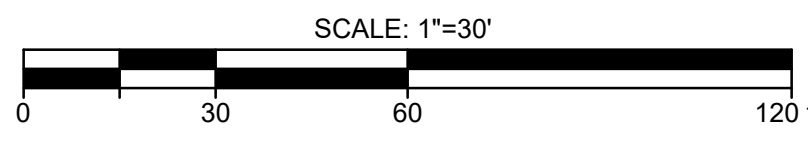
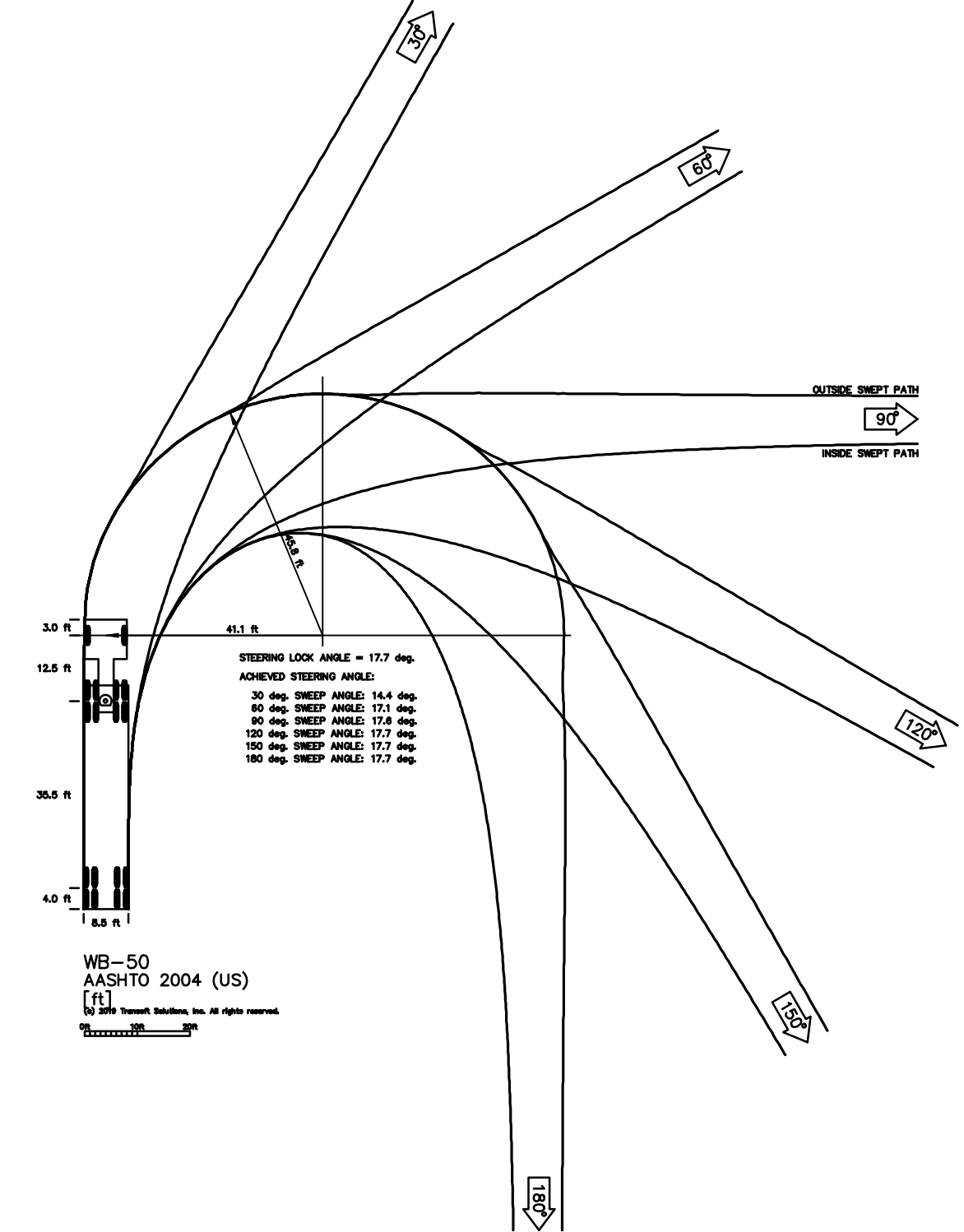
SHEET NO. **10** OF **B**

V:\086823-02-001-West Windsor\086823-02-001 (ENG) - 086823-02-001-West Windsor-Broad Hoboken\Engineering\Plans\Site\Hotel-Sat.dwg 12/14/22 06:32:55PM, Jacek, LAYOUT: SITE1-WB-50
 Bldg 3 - 086823-02-001-West Windsor\086823-02-001 (ENG) - 086823-02-001-West Windsor-Broad Hoboken\Engineering\Plans\Site\Hotel-Sat.dwg 12/14/22 06:32:55PM, Jacek, LAYOUT: SITE1-WB-50
 Rev. No. 1
 Date 11/15/22
 Drawn by Jacek

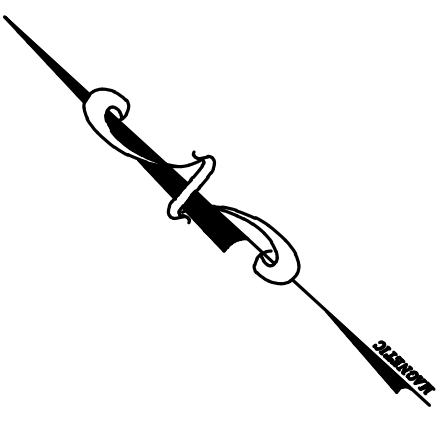


WB-50 TRUCK

- | | | | |
|---------------|-------|--------------------|------|
| Tractor Width | : WD1 | Lock to Lock Time | : LL |
| Trailer Width | : WD2 | Steering Angle | : SA |
| Tractor Track | : TR1 | Articulating Angle | : AA |
| Trailer Track | : TR2 | | |



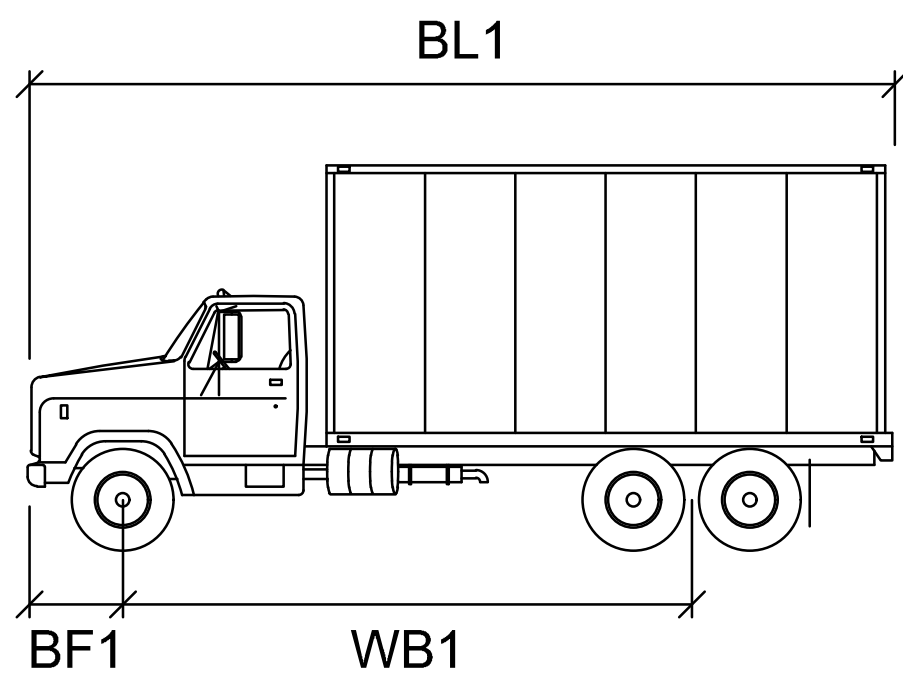
NEW JERSEY HIGHWAY ROUTE US 1



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NO.	DATE	REVISION																													
<p>Bowman Consulting Group, Ltd. Phone: 732-662-5500 Fax: 732-662-5011 NJ Certificate of Professional Engineer No. 24GE0434400 www.bowmanconsulting.com info@bowmanconsulting.com</p>																															
<p>JAMES M. WARD, N.J. Professional Engineer, No. 24GE0434400</p>																															
<p>AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT WB-50 TRUCK TURNING PLAN TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY</p>																															
<p>SHEET No. 11 OF</p>																															

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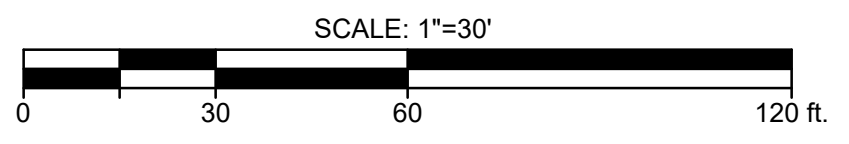
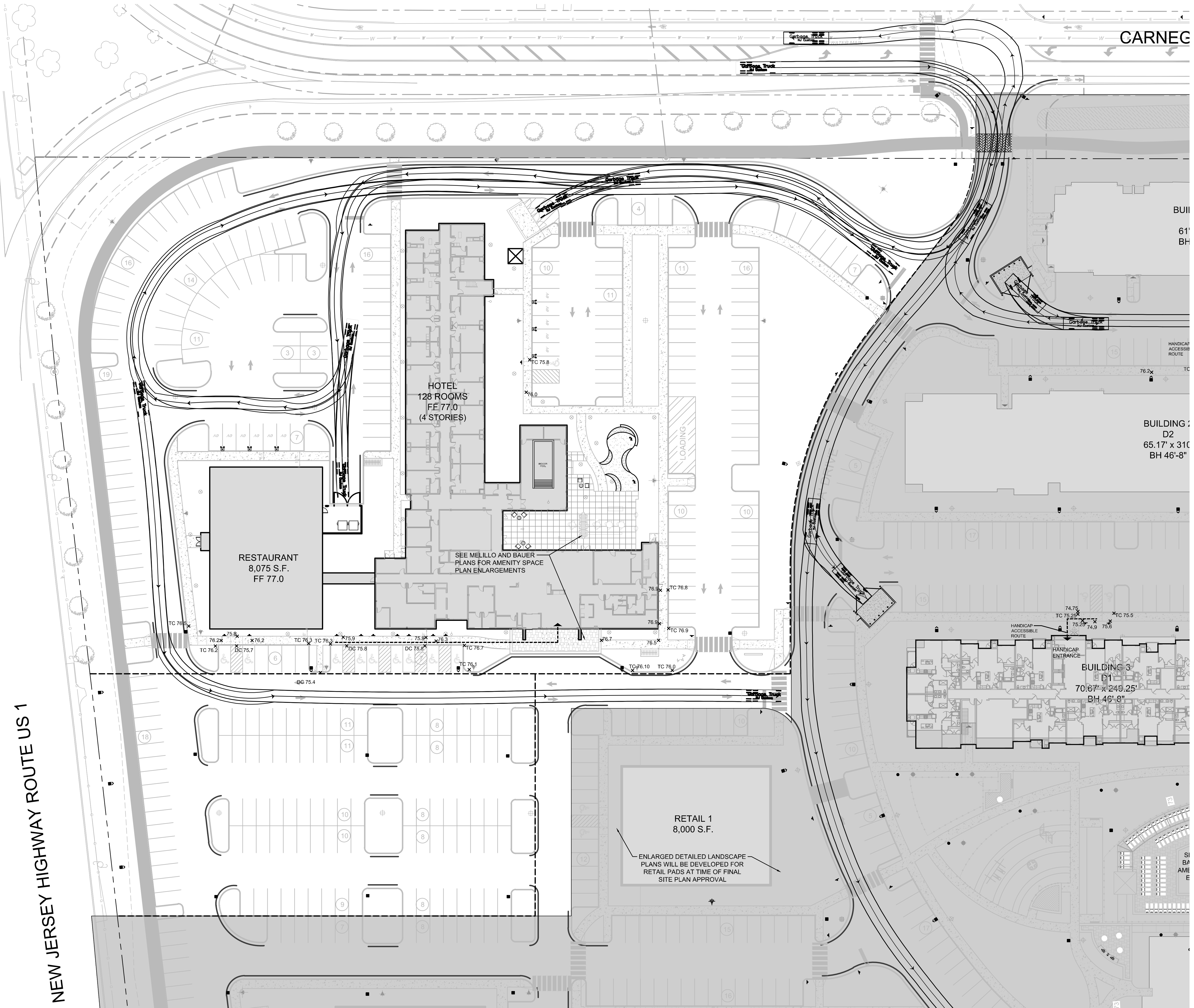
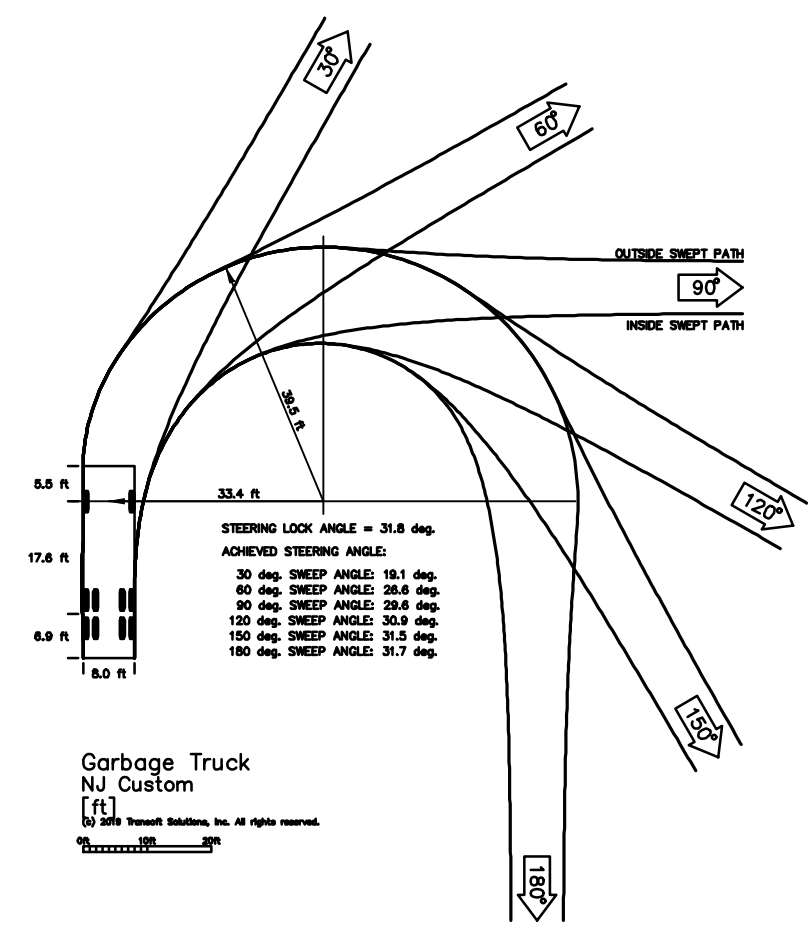
V:\086823 - 086823-02-001-West Windsor\086823-02-001 (ENCL) - 086823-02-001-West Windsor-Broad Hoboken\Engineering\Bldg_Sht-Hotel-Sat.dwg 12/14/22 06:26:04PM, Jacek, LAYOUT: SHT12-TURN



GARBAGE TRUCK

- Width : WD1
 Track : TR1
 Lock to Lock Time : LL
 Steering Angle : SA

UNITS



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PROJECT: 086823-02-001
 CHNO. VJV

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PROJECT: 086823-02-001
 CHNO. VJV

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JAMES M. WARD, N.J. Professional Engineer, No. 24GE0434400

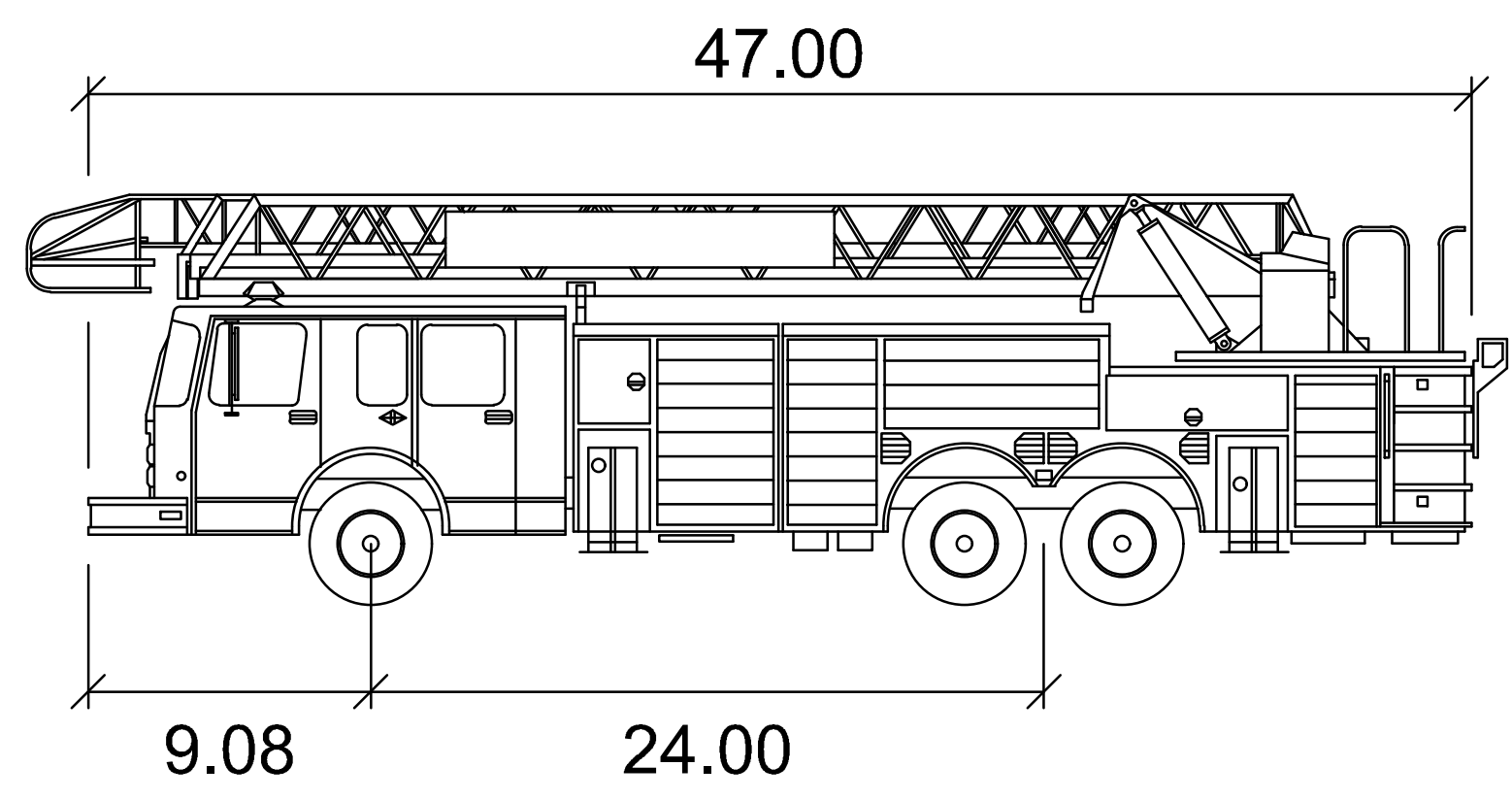
AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL
 AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
GARBAGE TRUCK TURNING PLAN

BLOCK 6, LOTS 12.01, and 12.011
 TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY

SHEET No. **12** OF

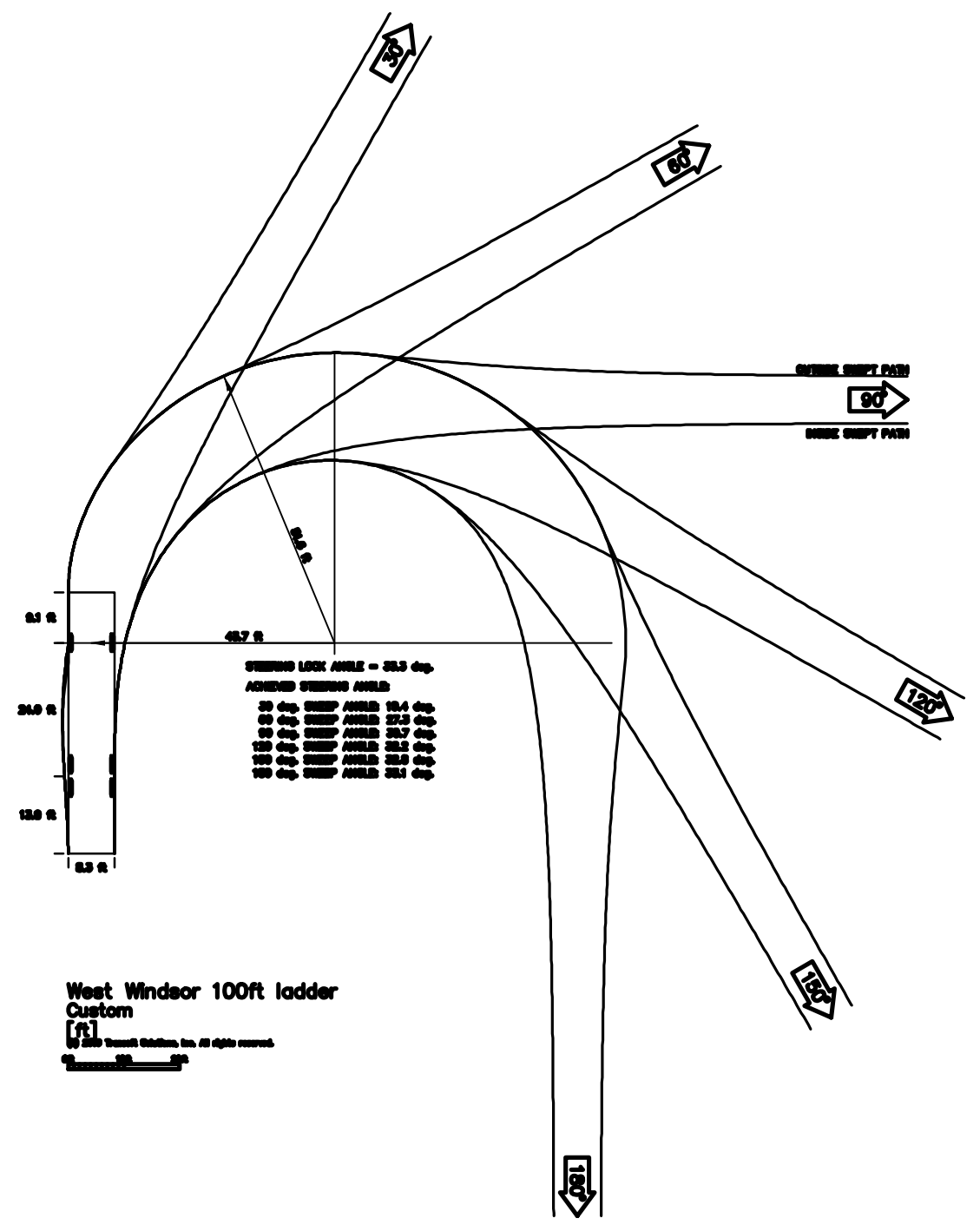
DATE: 12/15/22
 REVISION: 7

V:\086823 - 086823-02-001-West Windsor\086823-02-001 (ENCL) - 086823-02-001-West Windsor-Broad Hoboken\Engineering\Plans\Site\Hotel-Site.dwg 12/14/22 06:24:53PM, James, LAYOUT: SITE13-TURN
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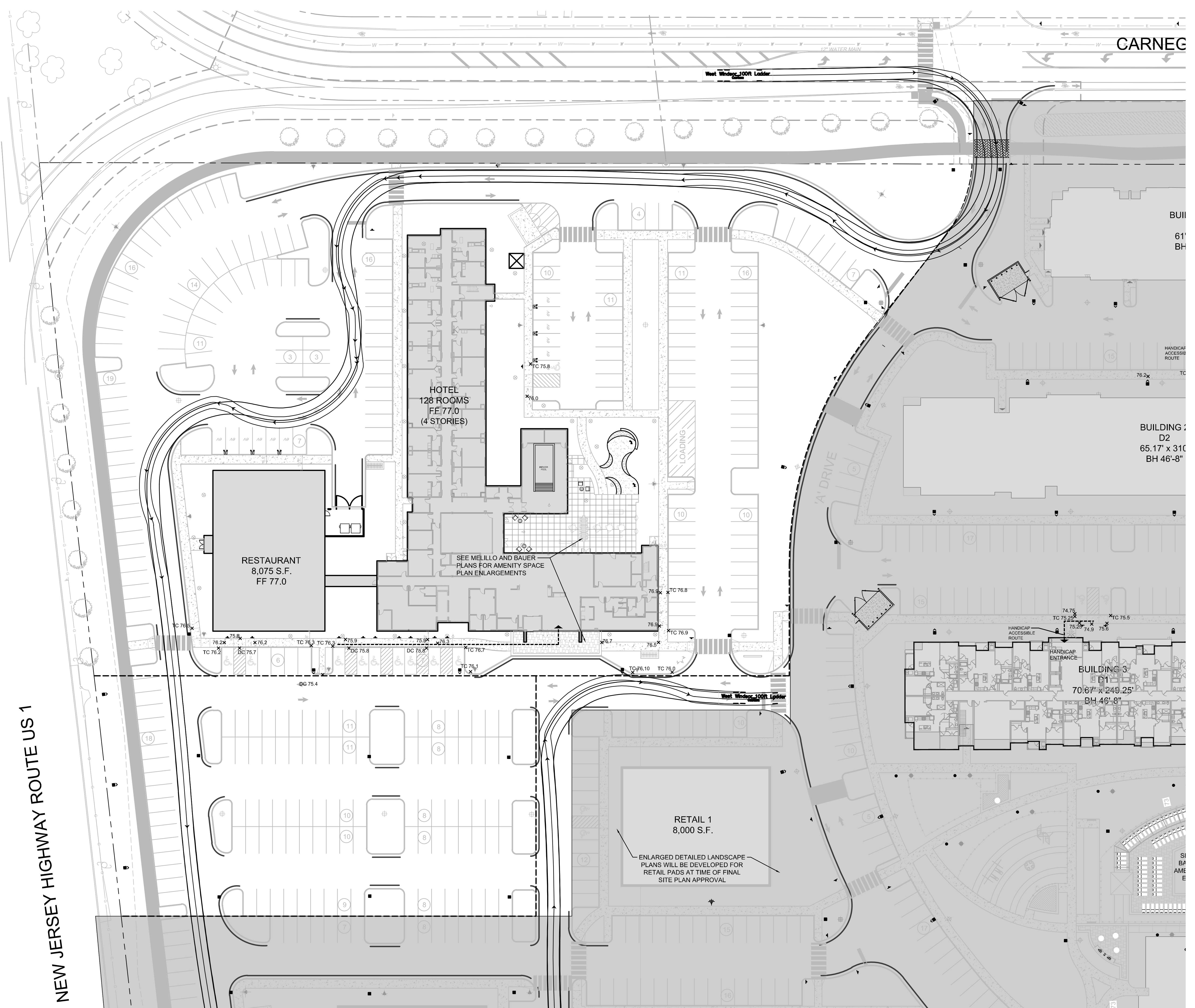
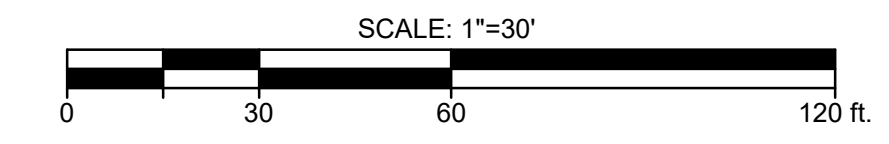


West Windsor 100ft ladder

	feet
Width	: 8.33
Track	: 8.33
Lock to Lock Time	: 6.0
Steering Angle	: 33.3



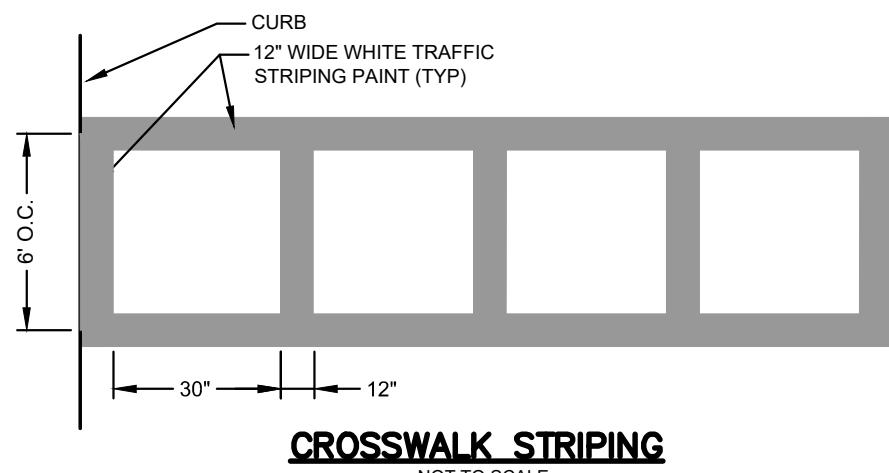
- FIRE & EMERGENCY NOTES**
1. A LOCK BOX TO ALLOW IMMEDIATE ACCESS BY THE FIRE DEPARTMENT SHALL BE INSTALLED ON THE FRONT OF EACH BUILDING.
 2. THE POSITION OF THE FIRE DEPARTMENT CONNECTION THAT SUPPORTS THE FIRE SPRINKLER SYSTEM SHALL BE AT THE FRONT OF EACH BUILDING.
 3. FIRE DEPARTMENT STANDPIPES SHALL BE INSTALLED IN EACH STAIR TOWER. THE STANDPIPES SHALL HAVE 2-1/2" NATIONAL STANDARD THREAD HOSE OUTLETS ON EACH STAIR TOWER FLOOR LANDING. THE STANDPIPES SHALL BE TIED INTO THE FIRE SPRINKLER PIPING SO THAT THERE WILL BE ONLY ONE FIRE DEPARTMENT CONNECTION.
 4. FULL FIRE SPRINKLERS WILL BE INSTALLED IN EACH BUILDING.



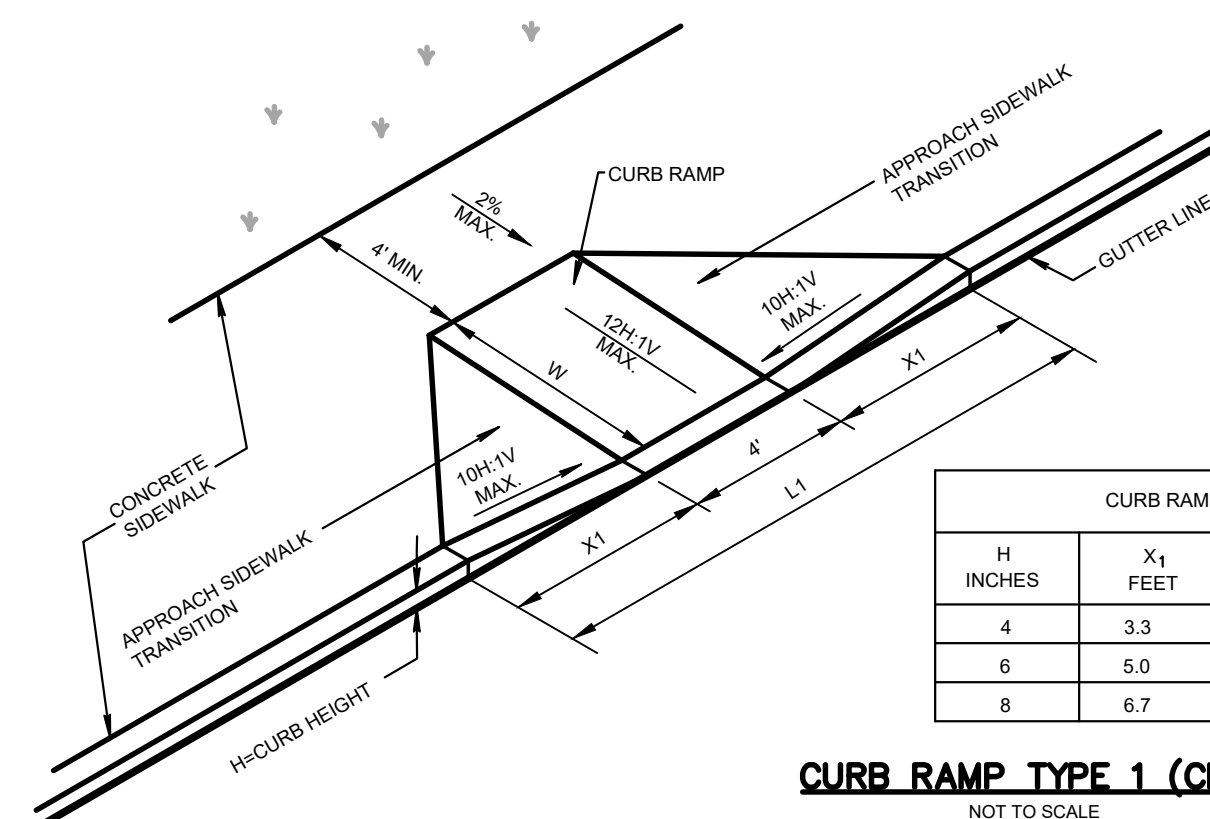
NEW JERSEY HIGHWAY ROUTE US 1

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	<p>James M. Ward, P.E.</p> <p>Professional Engineer - No. 24GE0434400</p>
<p>Bowman Consulting Group, Ltd.</p> <p>Phone: 732-665-5000 Fax: 732-665-5001 www.bowmanconsulting.com</p>	
<p>AMENDED FINAL SITE PLAN FOR PHASE 1 - HOTEL AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT FIRE TRUCK TURNING PLAN</p>	
<p>TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY</p>	
<p>SHEET No. 13</p>	<p>OF</p>
<p>PROJ: 086823-02-001 CHD: VWZ</p>	<p>DATE: 11/15/22</p>
<p>REV PER 2nd ROUND TRC COMMENTS</p>	<p>REVISION</p>

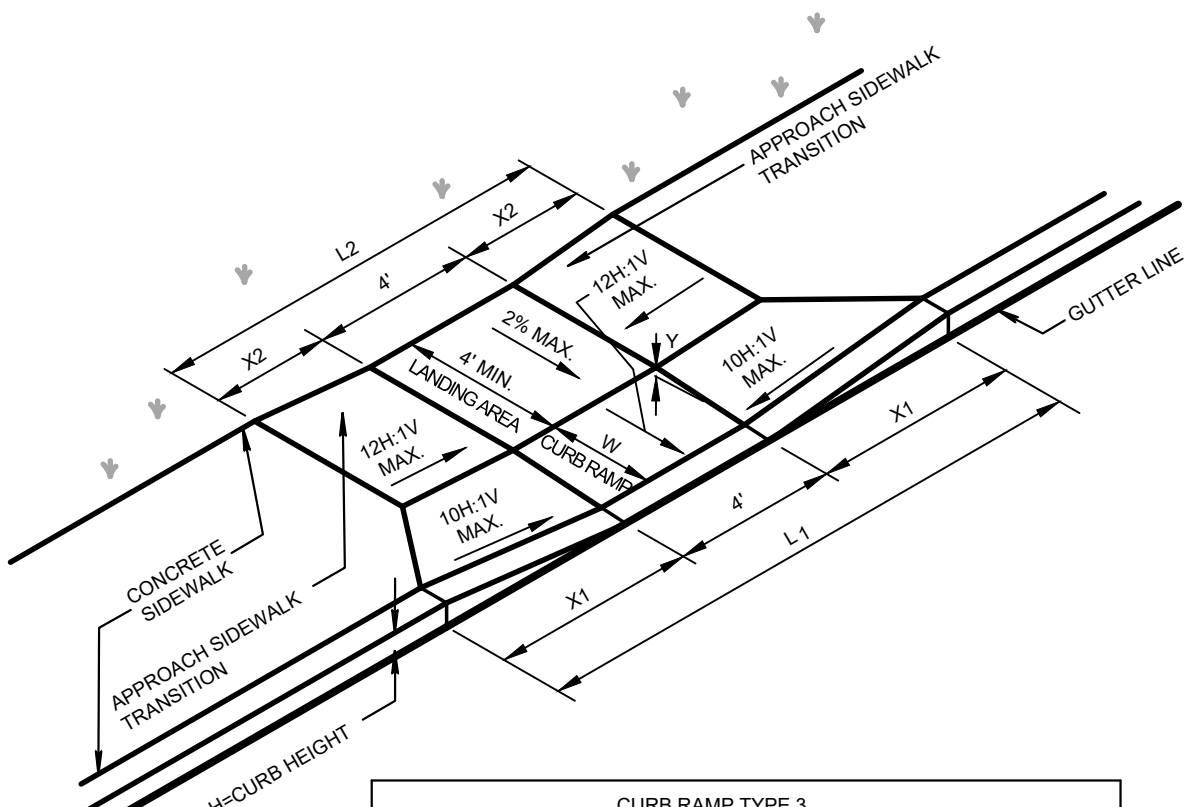


CROSSWALK STRIPING
NOT TO SCALE



CURB RAMP TYPE 1 (CR1)
NOT TO SCALE

CURB RAMP TYPE 1					
H	X1	L1	W	FEET	
4	3.3	10.6	4	7	
6	5.0	14.0	6	11	
8	6.7	17.4	8	15	



CURB RAMP TYPE 3							
W	H	X1	Y	X2	L2	FEET	
2.5	4	3.3	10.6	2.5	1.5	7	
3.0	6	5.0	14.0	3.0	3	10	
3.5	8	6.7	17.4	3.0	5	14	
4.0	4	3.3	10.6	3.5	0.5	5	
6	5.0	14.0	3.5	2.5	9	13	
8	6.7	17.4	3.5	4.5	13	17	
4	4	*	*	*	*	*	
6	5.0	14.0	4.0	2	8	12	
8	6.7	17.4	4.0	4	12	16	

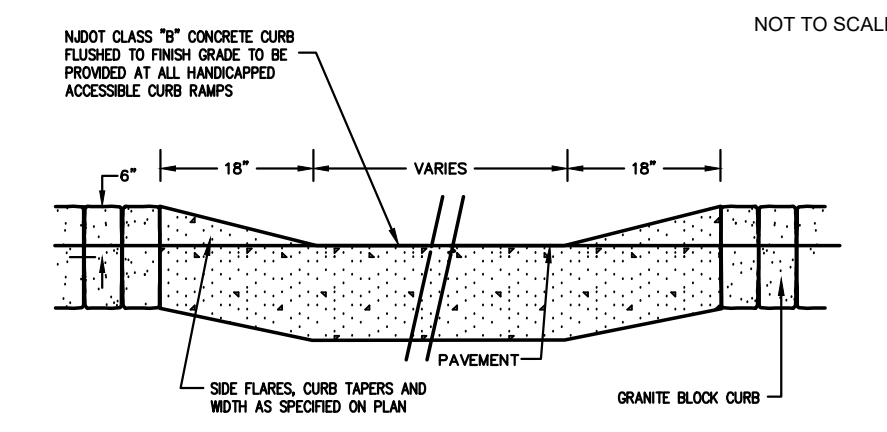
* NOTE: TYPE 3 RAMP IS NOT APPLICABLE. USE TYPE 1.
(LANDING AREA REQUIRED)

CURB RAMP TYPE 3 (CR3)
NOT TO SCALE

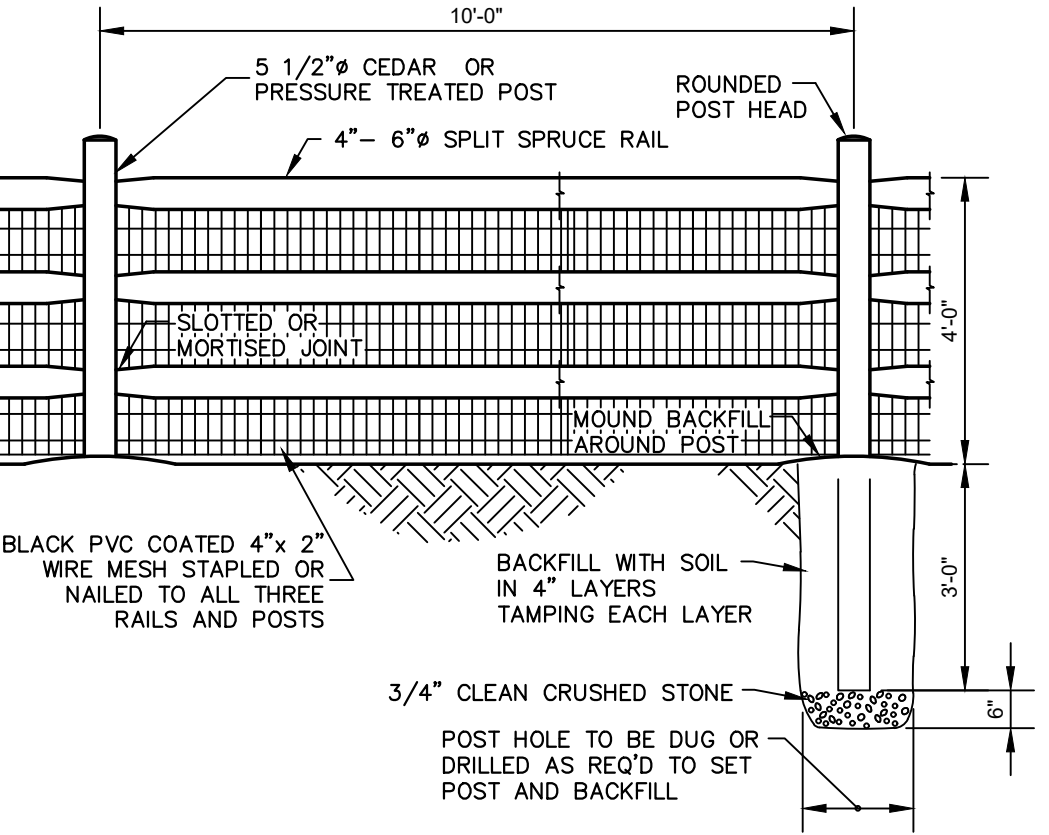
- GENERAL NOTES:**
- LANDING AREA, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP SHALL BE KEPT CLEAR.
 - DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK VARY DRASTICALLY IN AREA OF PROPOSED CURB RAMP.
 - CURB (DROPPED CURB) GUTTERLINE SHALL BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMP. EXCEPT THAT CURB RAMP TYPE 6 SHALL BE A MINIMUM OF 3 FEET.
 - WHERE THE DISTANCE FROM THE GUTTERLINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, THE PUBLIC SIDEWALK CURB RAMP DELINEATION (SHADED AREA) SHALL BE SAFETY RED IN COLOR.
 - WHERE THE DISTANCE FROM THE GUTTERLINE TO THE OUTSIDE EDGE OF THE SIDEWALK IS 6 FEET OR LESS, CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPES 1 THROUGH 3.
 - CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED. SEE PLANS.
 - DIMENSIONS SHOWN ON THE TABLES ARE FOR 4, 6, OR 8 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMP WILL HAVE TO BE CALCULATED BASED ON THE CROSS SLOPES SHOWN.
 - ALL FULL CURB DEPRESSIONS SHALL BE CONSTRUCTED OF CONCRETE, REGARDLESS OF THE CURB TYPE THROUGHOUT THE PROJECT.

ADA SIDEWALK AND CURB RAMP

NOT TO SCALE



ADA ACCESSIBLE FLUSH CURB DETAIL
NOT TO SCALE

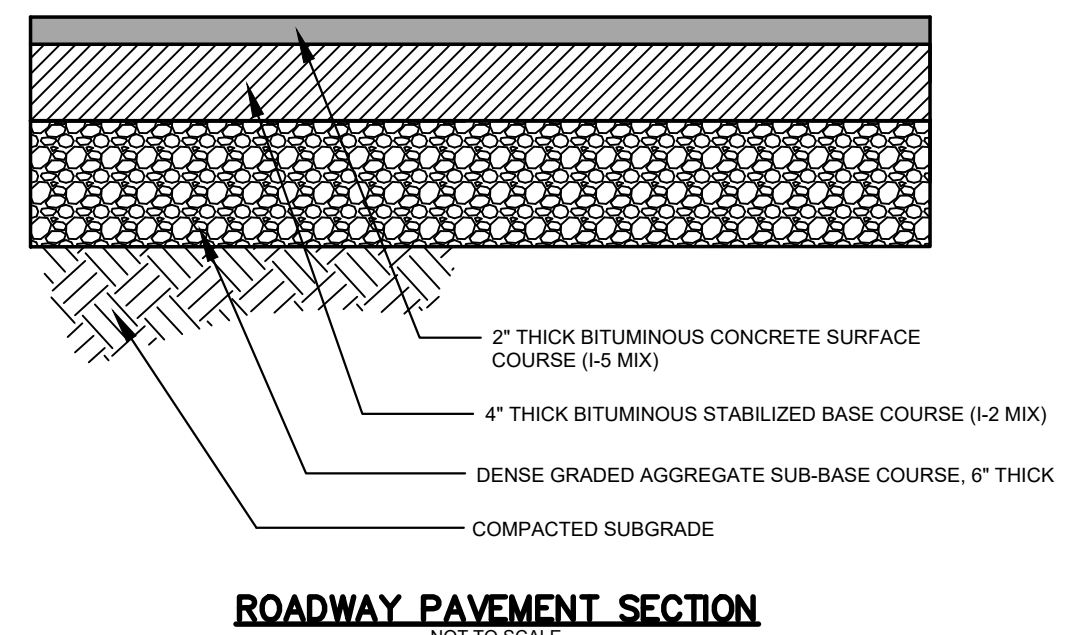


SPLIT RAIL FENCE WITH WIRE MESH
NOT TO SCALE

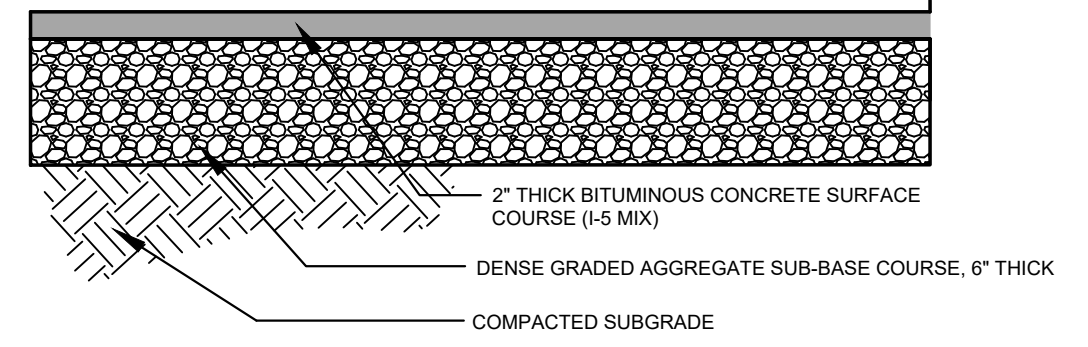
METAL INFILL SERIES SPECS

- Structural material thickness varies depending on infill choice
- Typical 7.2 Rb Metal Panels - .040w/.050' Precoated aluminum
- Typical Perforated Metal Panels - .063' Aluminum, 1/8" holes, 1/4" staggered centers, 23% open space

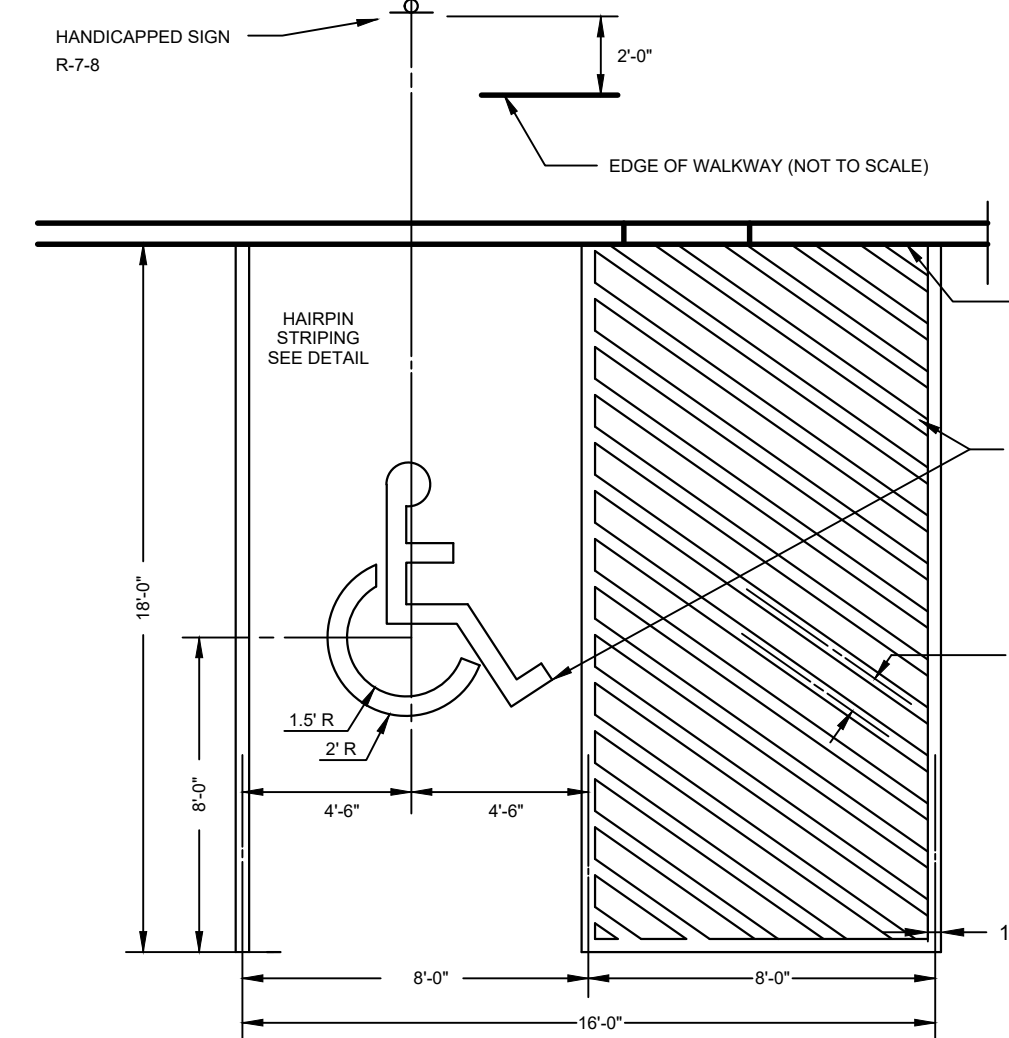
TRASH ENCLOSURE GATE DETAIL
NOT TO SCALE



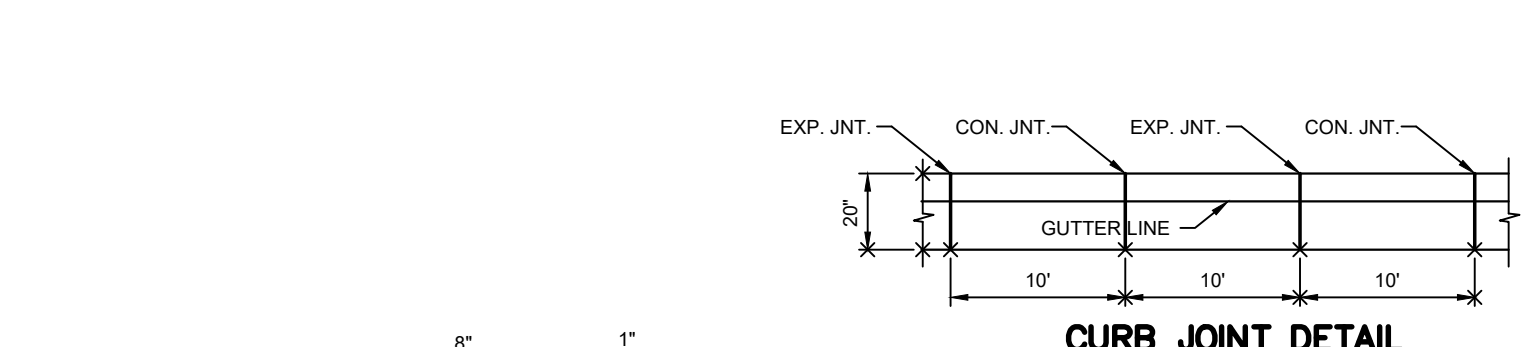
ROADWAY PAVEMENT SECTION
NOT TO SCALE



BIKEWAY PAVEMENT SECTION
NOT TO SCALE

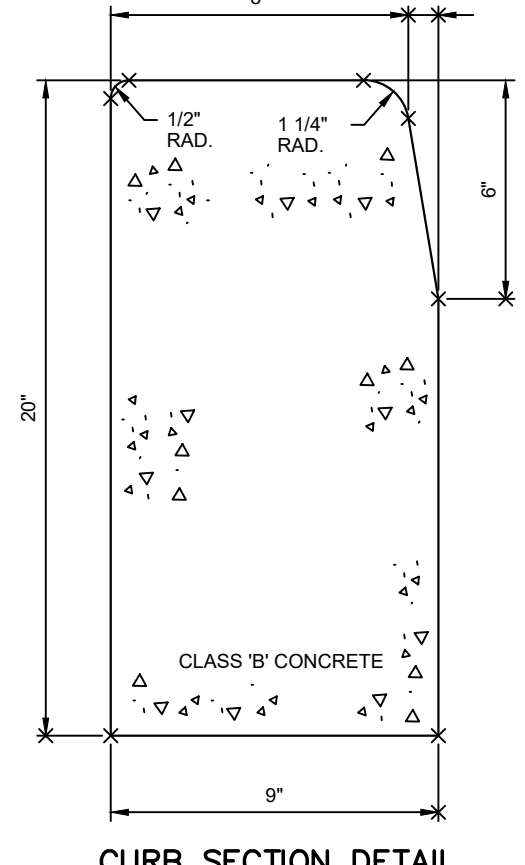


TYPICAL VAN ACCESSIBLE ADA PARKING SPACE
NOT TO SCALE

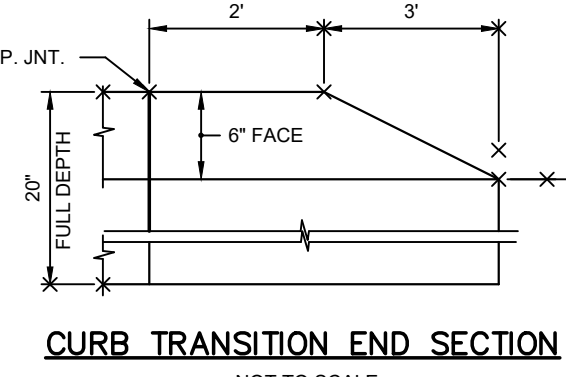


CURB JOINT DETAIL
NOT TO SCALE

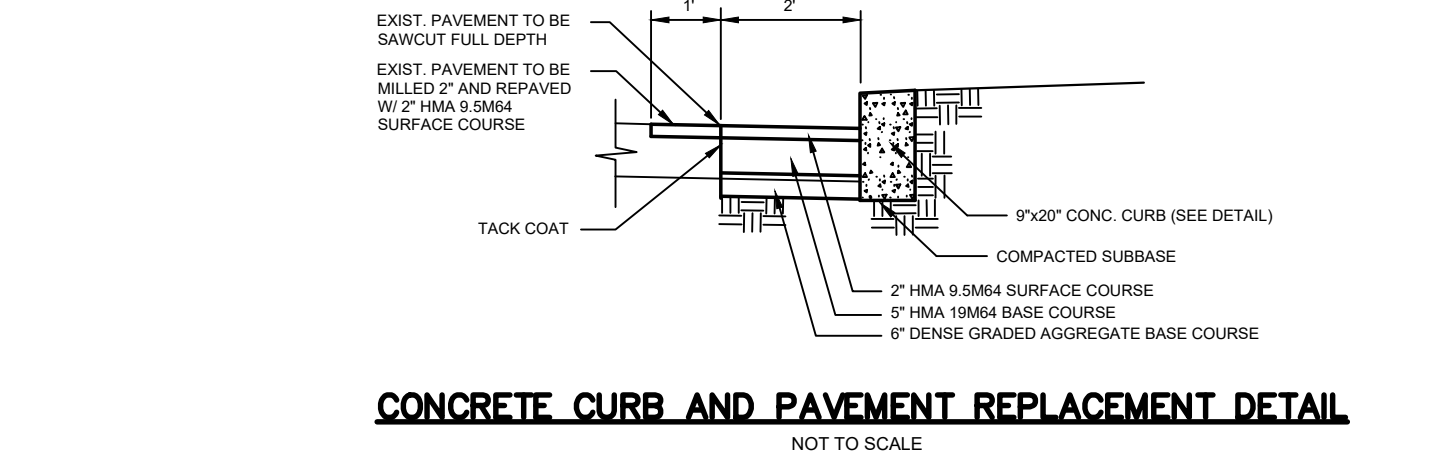
- NOTES:**
- EXPANSION JOINTS SHALL BE FILLED WITH PREFORMED, BITUMINOUS IMPREGATED FIBER JOINT FILLER, RECESSED 1/4" FROM FACE AND TOP OF CURB AND INLET HEADS.
 - EXPANSION JOINTS SHALL BE INSTALLED BETWEEN CURB AND INLET HEADS.
 - EXPANSION JOINTS SHALL ALTERNATE WITH CONSTRUCTION JOINTS EVERY 10' (SEE DETAIL ABOVE).
 - ALL JOINTS SHALL EXTEND FULL 20" DEPTH OF CURB.
 - EXPANSION JOINTS THROUGH AND ADJACENT TO THE CURB SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CURB.



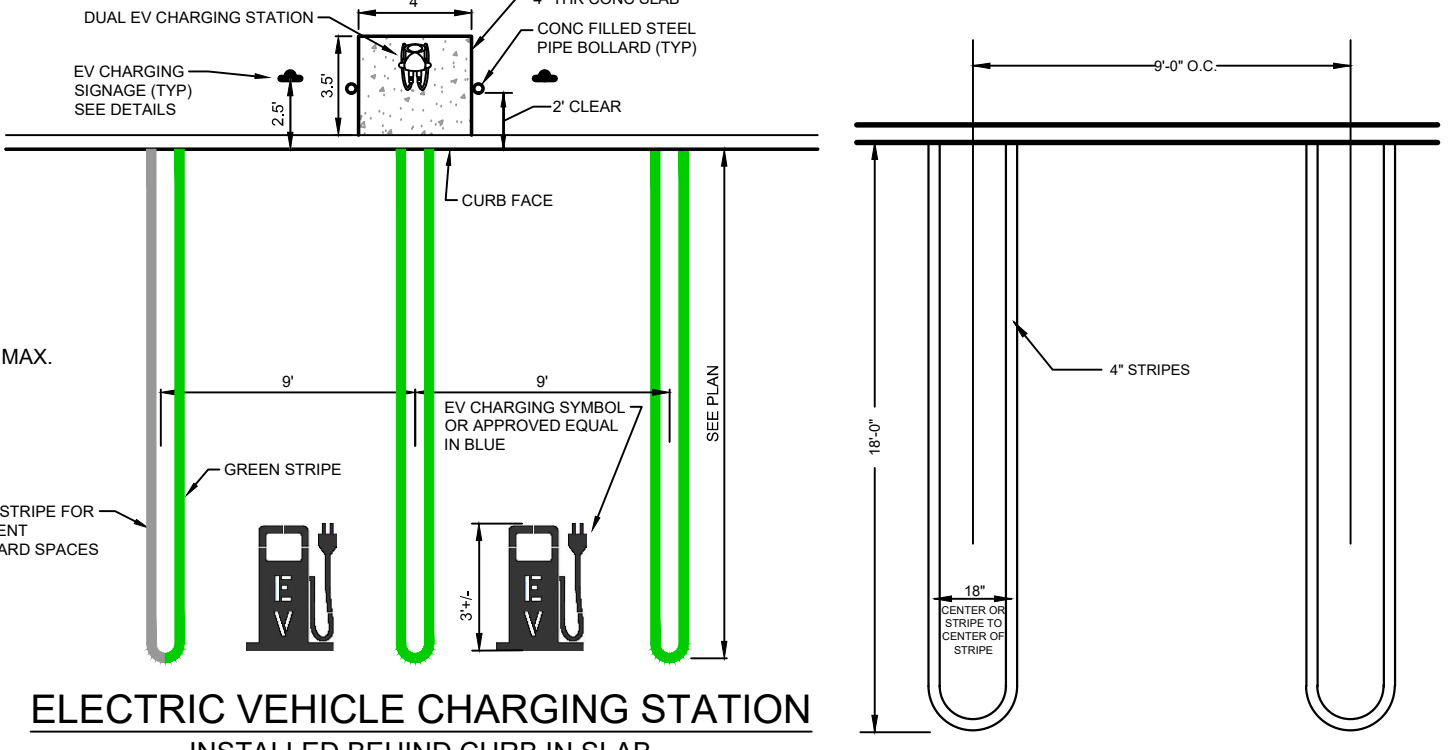
9\"/>



CURB TRANSITION END SECTION
NOT TO SCALE

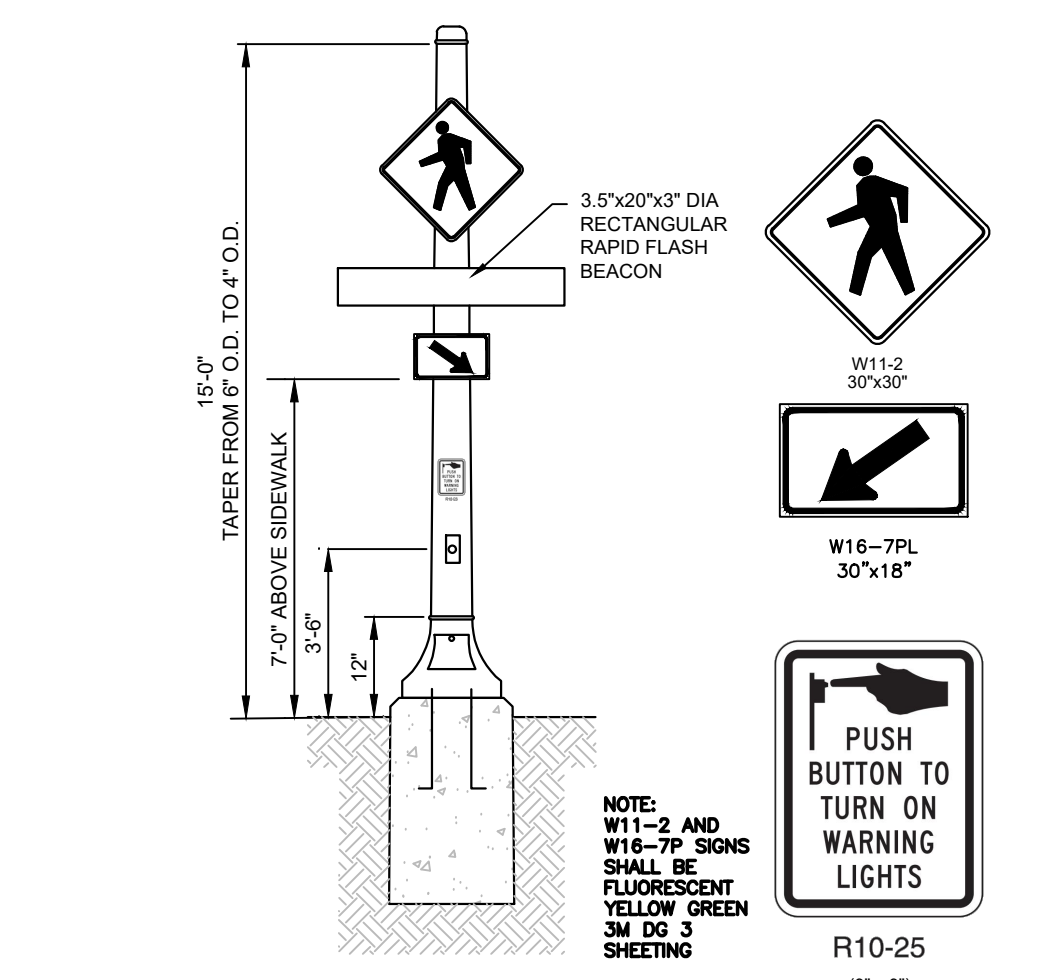


CONCRETE CURB AND PAVEMENT REPLACEMENT DETAIL
NOT TO SCALE

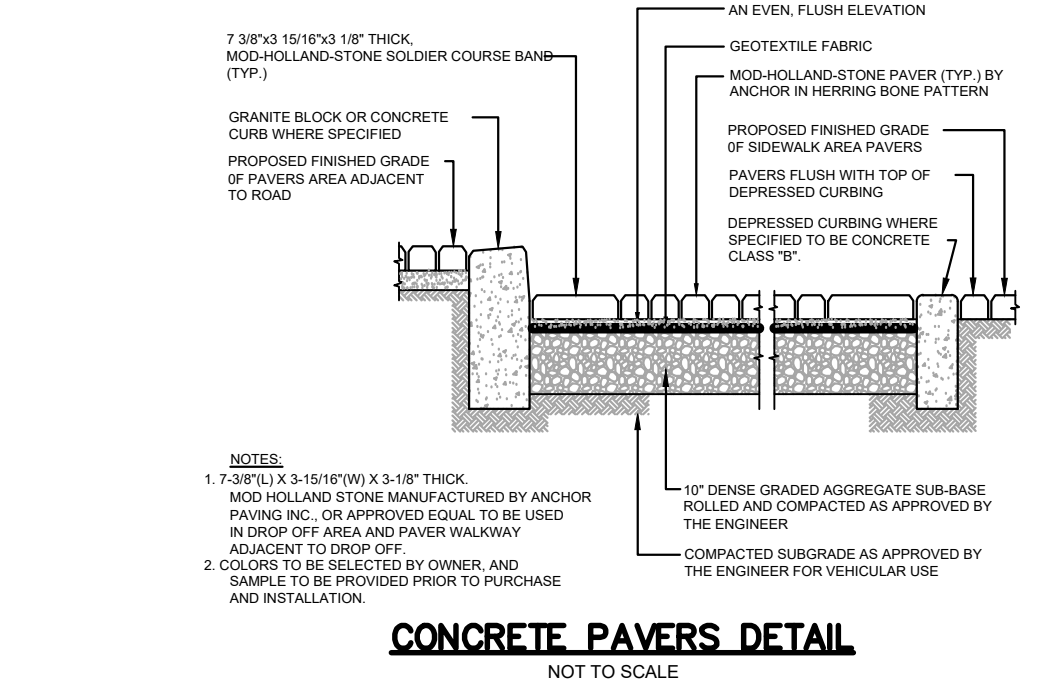


ELECTRIC VEHICLE CHARGING STATION INSTALLED BEHIND CURB IN SLAB
NOT TO SCALE

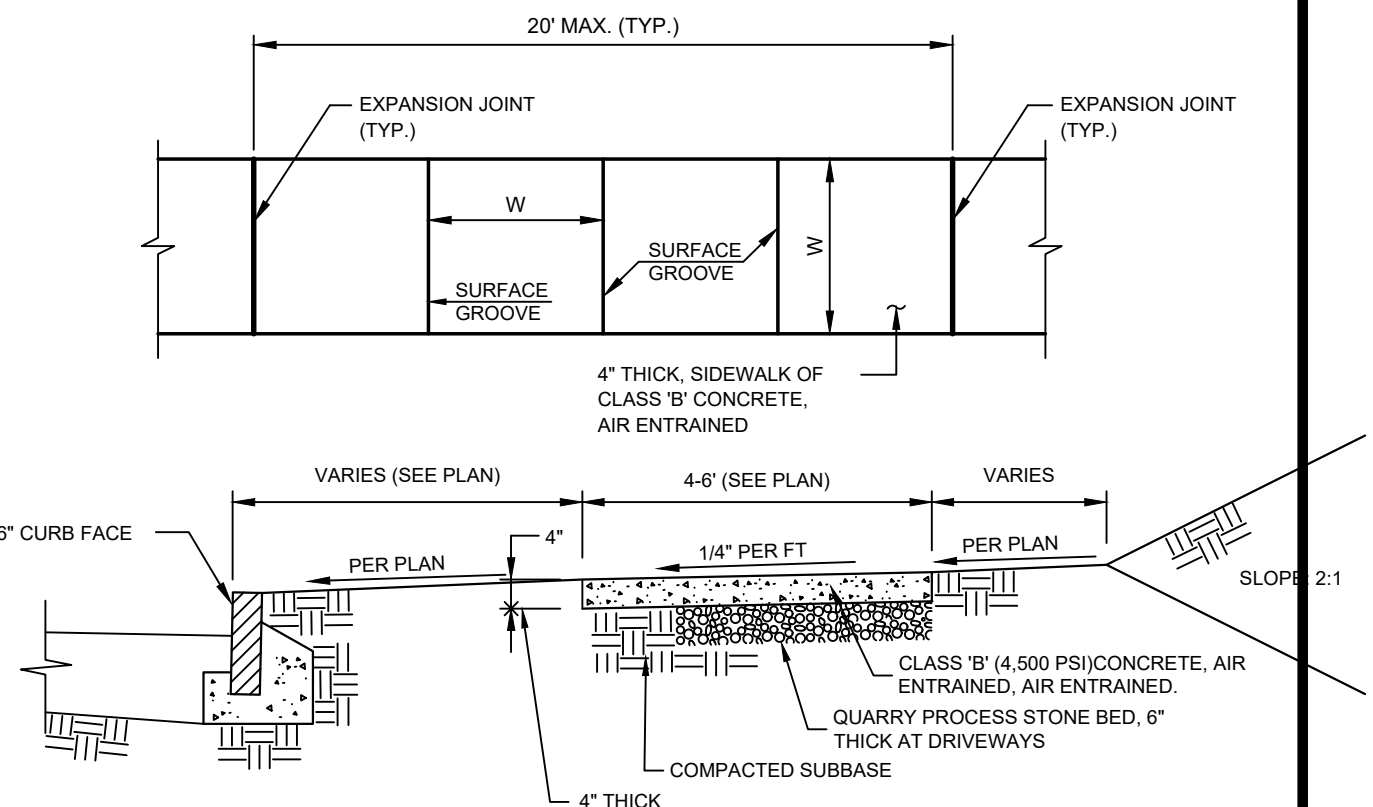
TYPICAL HAIRPIN PARKING STRIPING
NOT TO SCALE



PEDESTRIAN RECTANGULAR FLASHING SIGNAL BEACON-ELECTRIC 120V
NOT TO SCALE

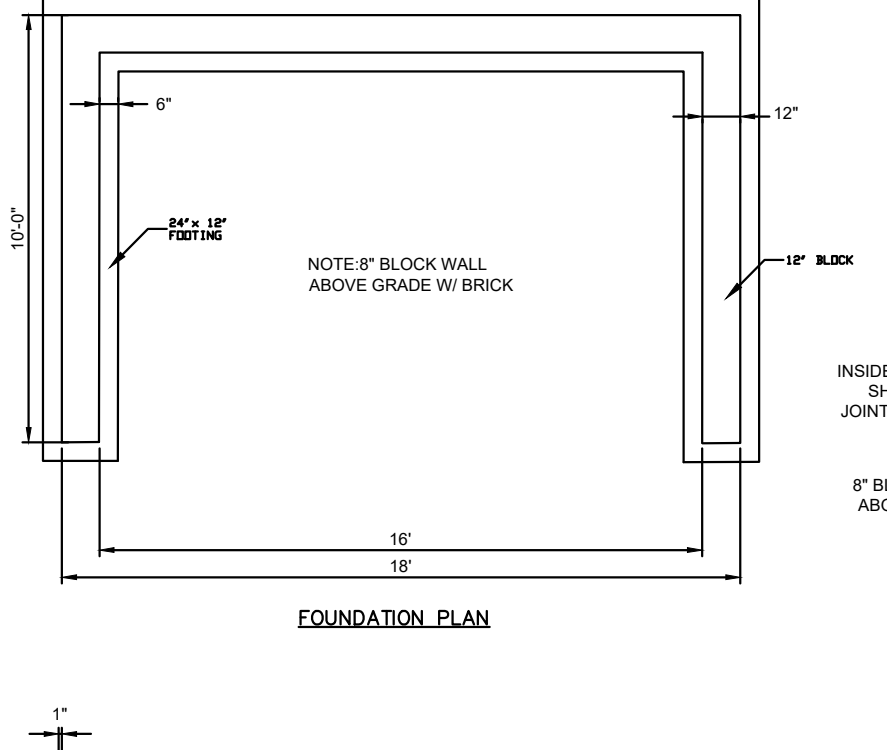


CONCRETE PAVERS DETAIL
NOT TO SCALE



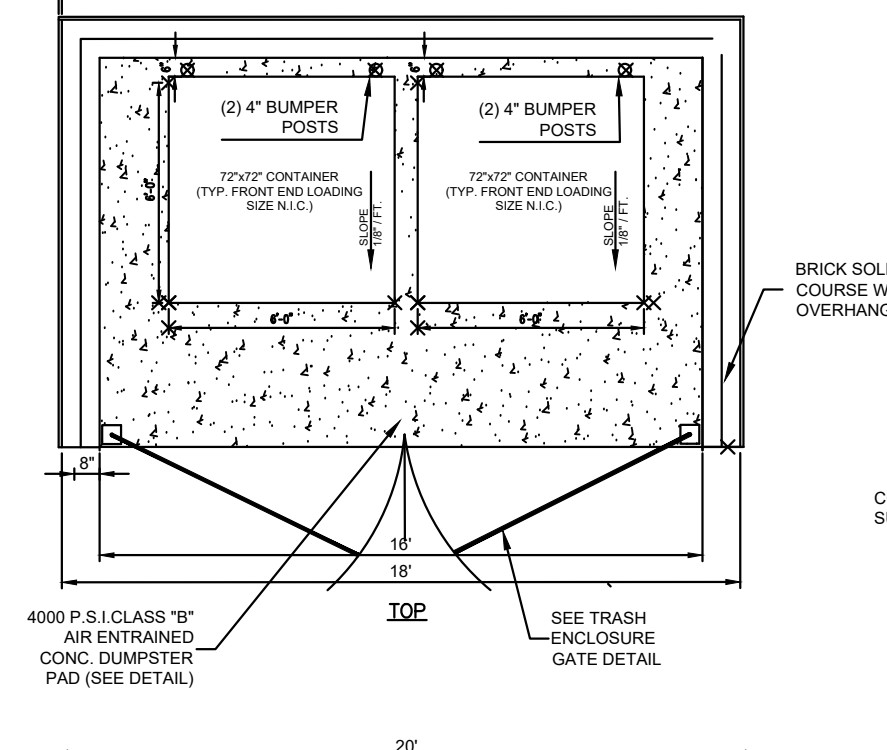
DETAIL OF STANDARD CONCRETE SIDEWALK
NOT TO SCALE

- NOTES:**
- SUBBASE SHALL BE COMPACTED TO A FIRM AND EVEN SURFACE TO THE SATISFACTION OF THE ENGINEER.
 - ALL CONCRETE SHALL BE AIR-ENTRAINED AND CONTAIN AN AIR CONTENT OF 6% ± 1.5%.
 - CONCRETE SHALL BE STRUCK OFF WITH A TRANSVERSE TEMPLATE AND FINISHED WITH FLOATS AND STRAIGHTEDGES UNTIL A SMOOTH SURFACE HAS BEEN OBTAINED.
 - THE SURFACE SHALL BE FINISHED WITH A WOODEN FLOAT AND BRUSHED WITH A WET, SOFT-HAIRED BRUSH.
 - ALL EDGES SHALL BE FINISHED AND ROUNDED WITH AN EDGING TOOL HAVING A RADIUS OF 1/4 INCH.
 - PREFORMED EXPANSION JOINT FILLER, 1/4" THICK, SHALL BE FORMED AROUND ALL APPURTENANCES, SUCH AS MANHOLES AND UTILITY POLES, EXTENDING INTO OR THROUGH THE CONCRETE.
 - THE SURFACE OF THE CONCRETE SHALL BE SO FINISHED AS TO DRAIN COMPLETELY AT ALL TIMES.
 - ALL SIDEWALK ABUTTING HEAD-ON PARKING SHALL BE 6 FT WIDE.

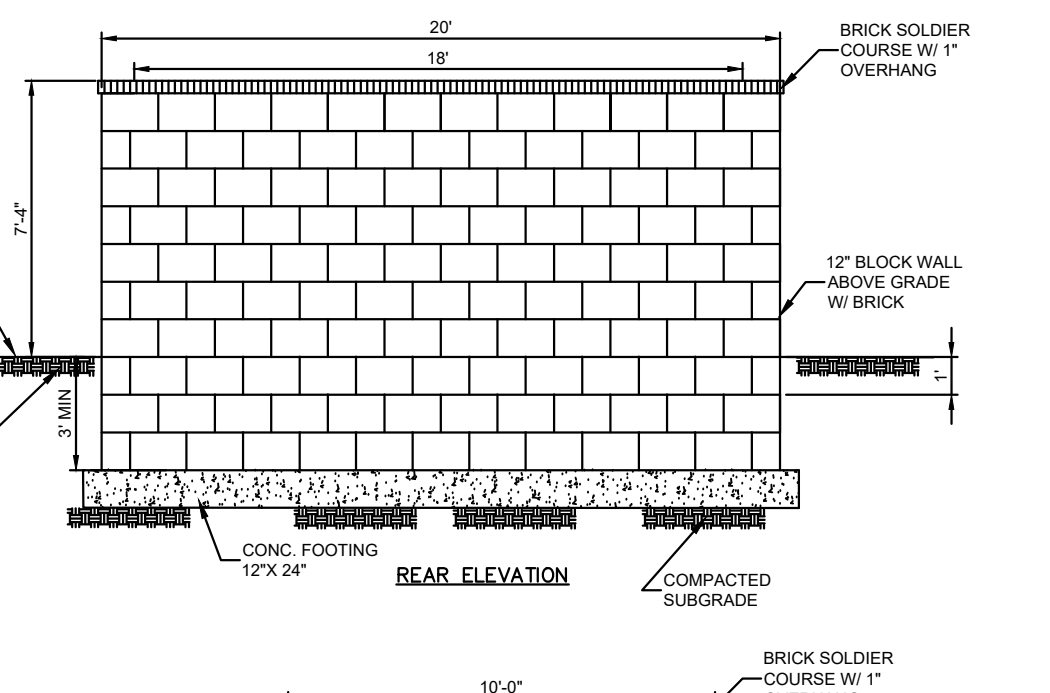


TYPICAL WALL SECTION
NOT TO SCALE

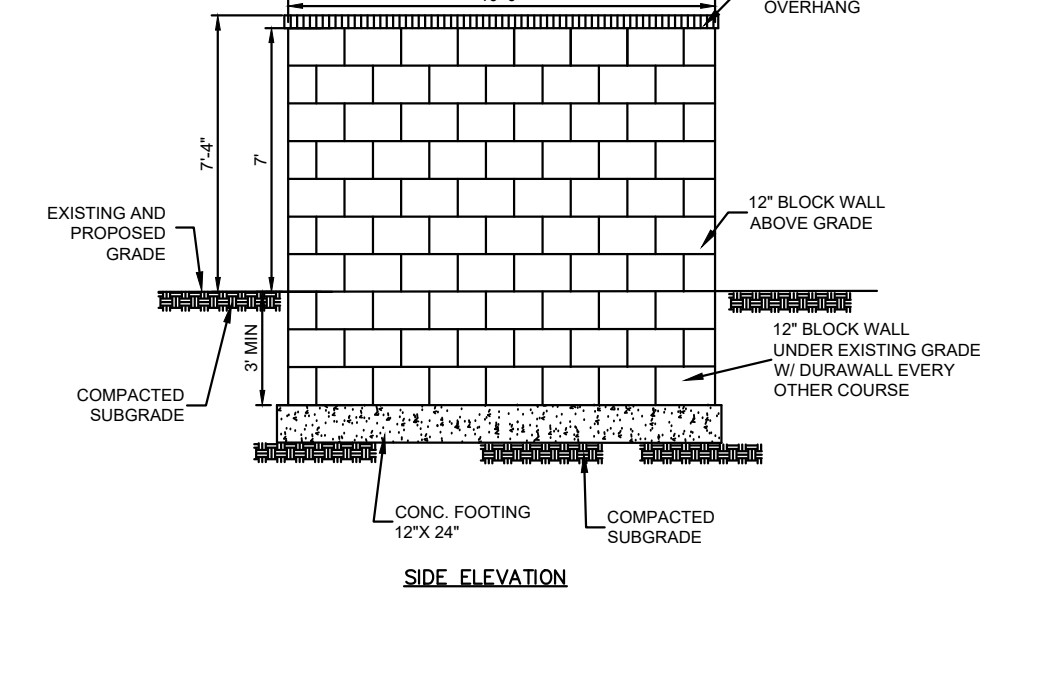
- GENERAL NOTES:**
- THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF THE EXISTING UTILITY PRIOR TO CONSTRUCTION. ANY INTERFERENCE SHALL BE REPORTED TO THE ENGINEER.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION OF THE WALL. ALL SAFETY PRECAUTIONS MUST BE UNDERSTOOD AND MAINTAINED AS REQUIRED BY LOCAL, STATE AND FEDERAL CODES.
 - EXACT LOCATION OF DUMPSTER AREA TO BE VERIFIED IN THE FIELD.
 - CONCRETE BLOCK TO BE FILLED SOLID.



TRASH ENCLOSURE DETAIL
NOT TO SCALE



SIGN POST DETAIL
NOT TO SCALE

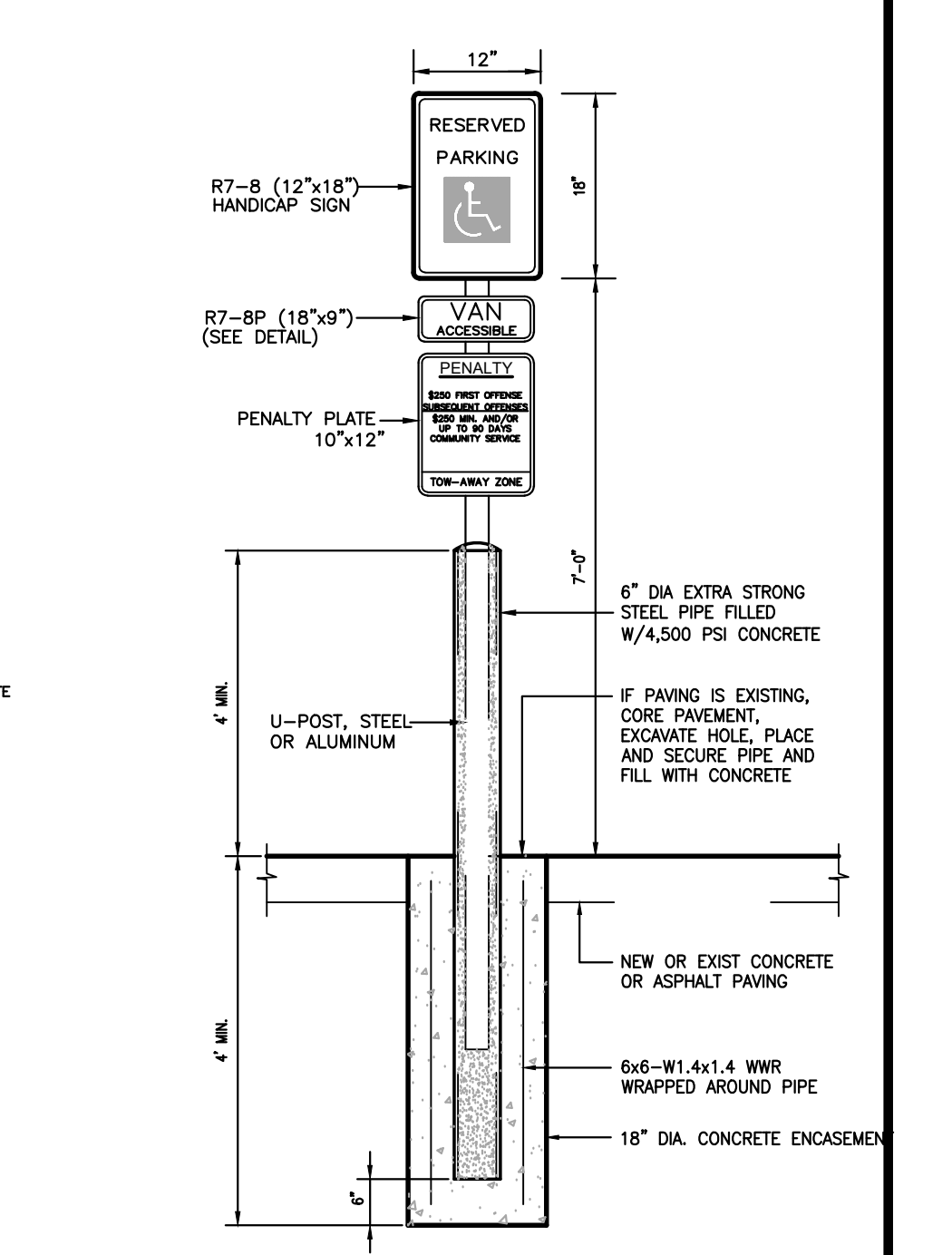


STEEL PIPE BOLLARD DETAIL
NOT TO SCALE



ELECTRIC VEHICLE PARKING SIGN
NOT TO SCALE

ACCESSIBLE PARKING SIGN (R7-8P)
NOT TO SCALE



STEEL PIPE BOLLARD DETAIL
NOT TO SCALE

THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

Bowman

Professional Engineering

James M. Wajsdorf, P.E., Professional Engineer, No. 246032220

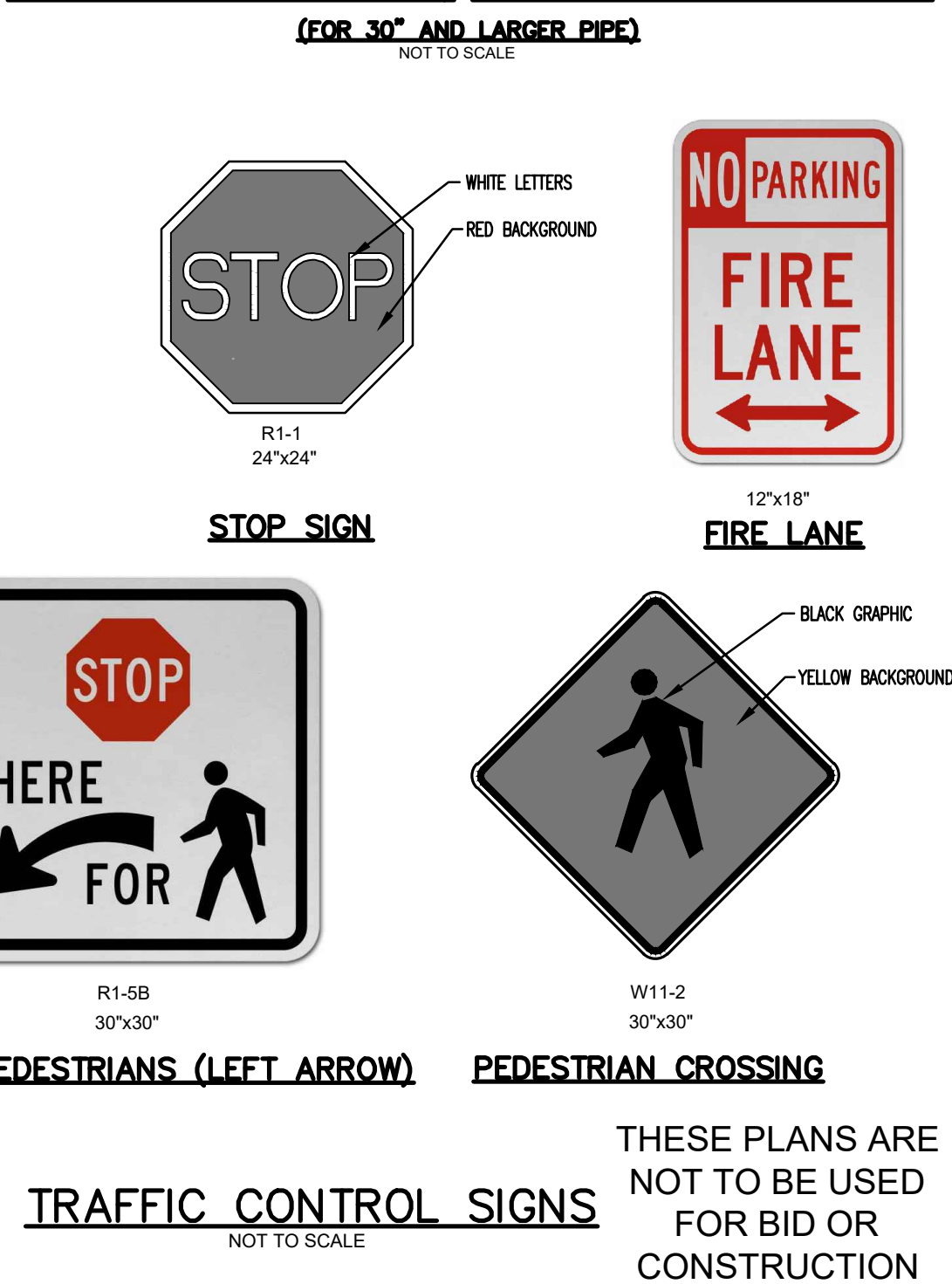
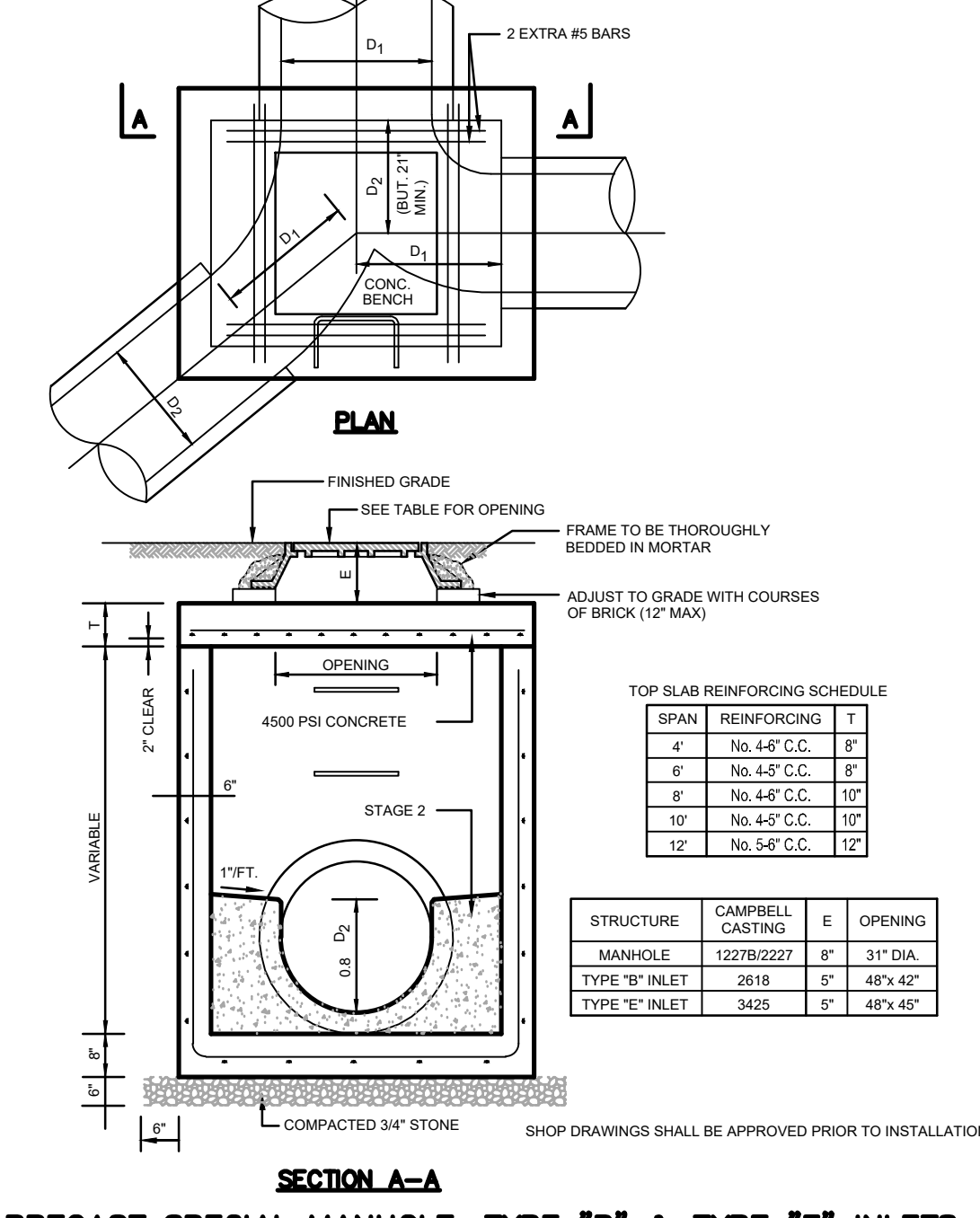
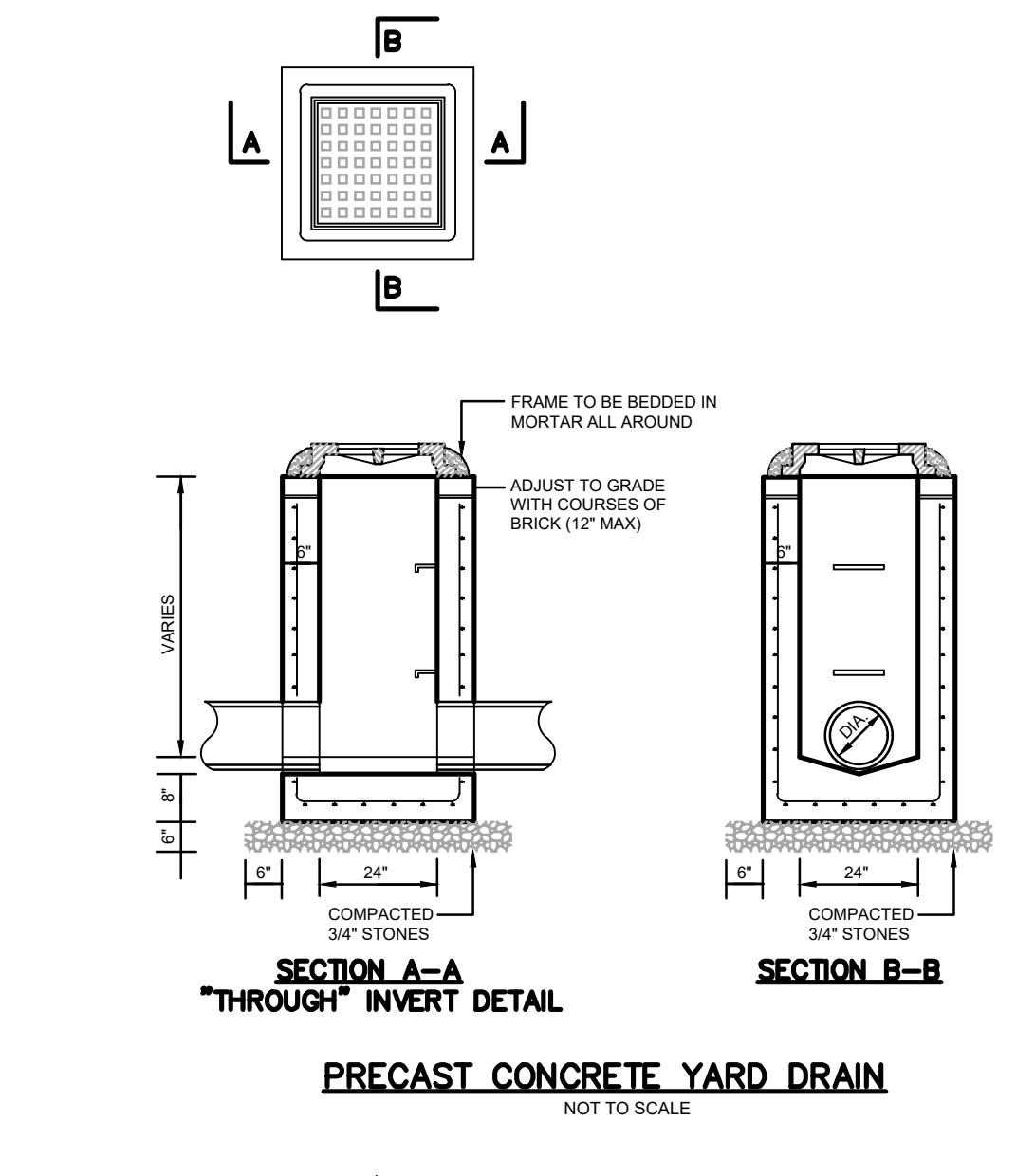
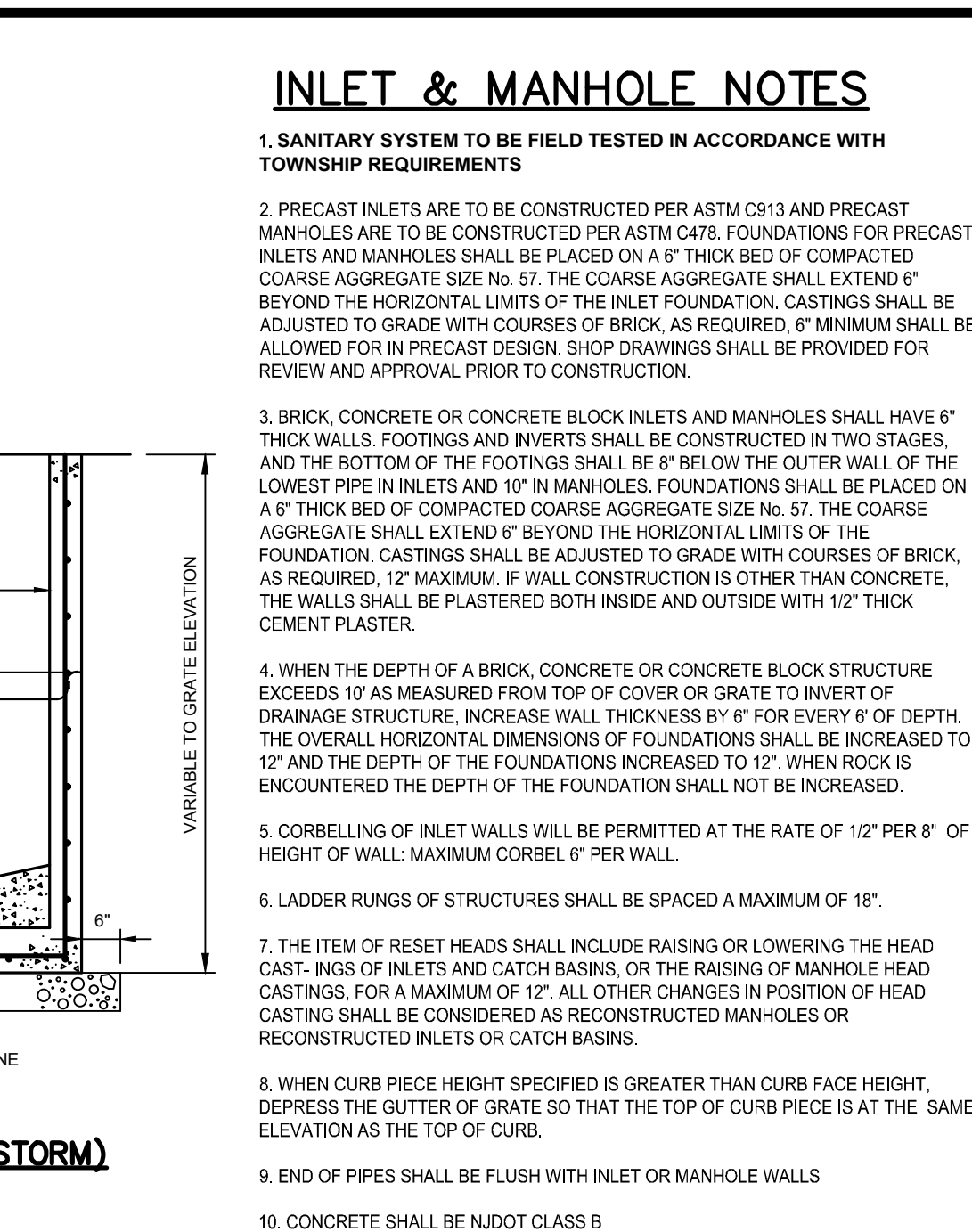
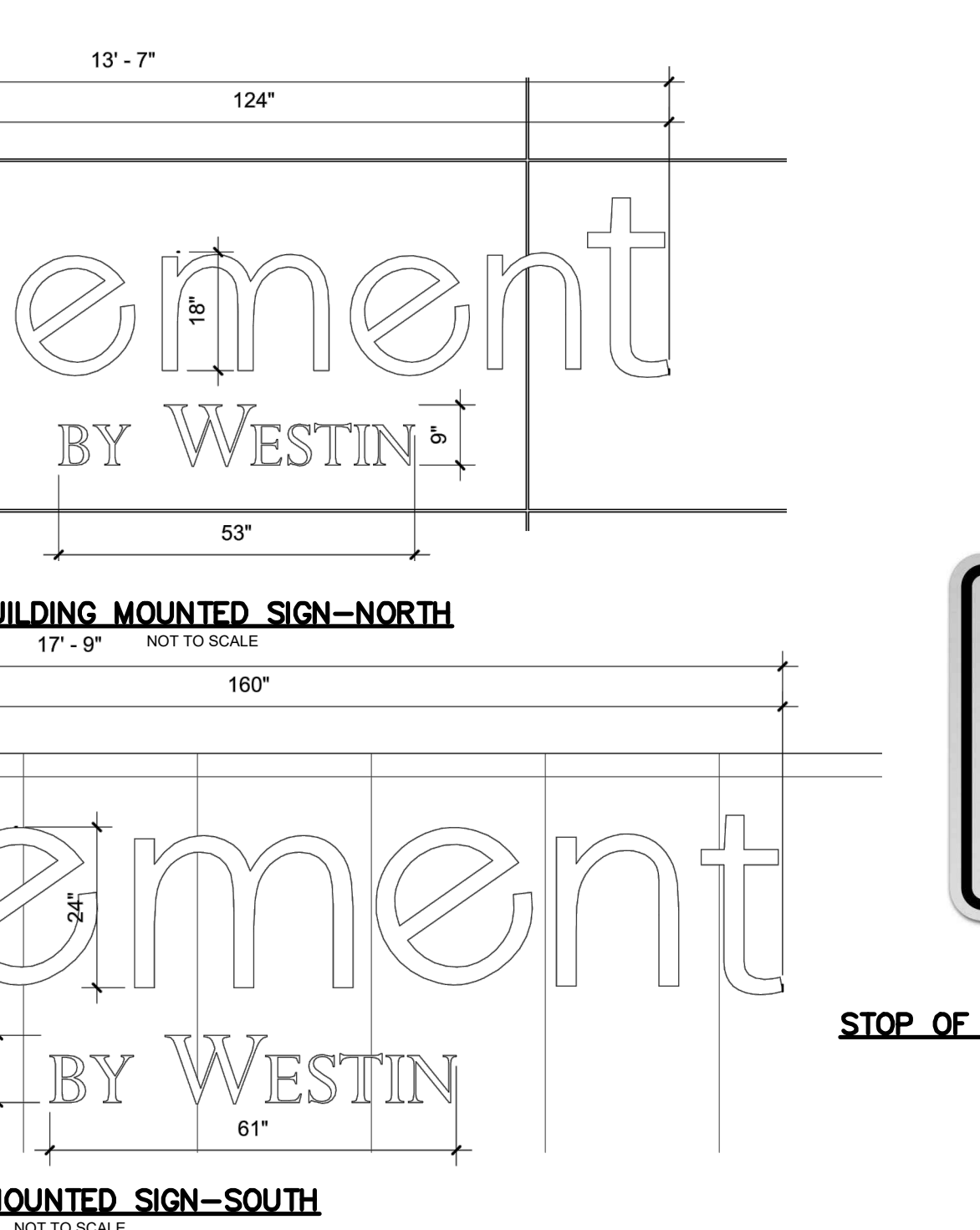
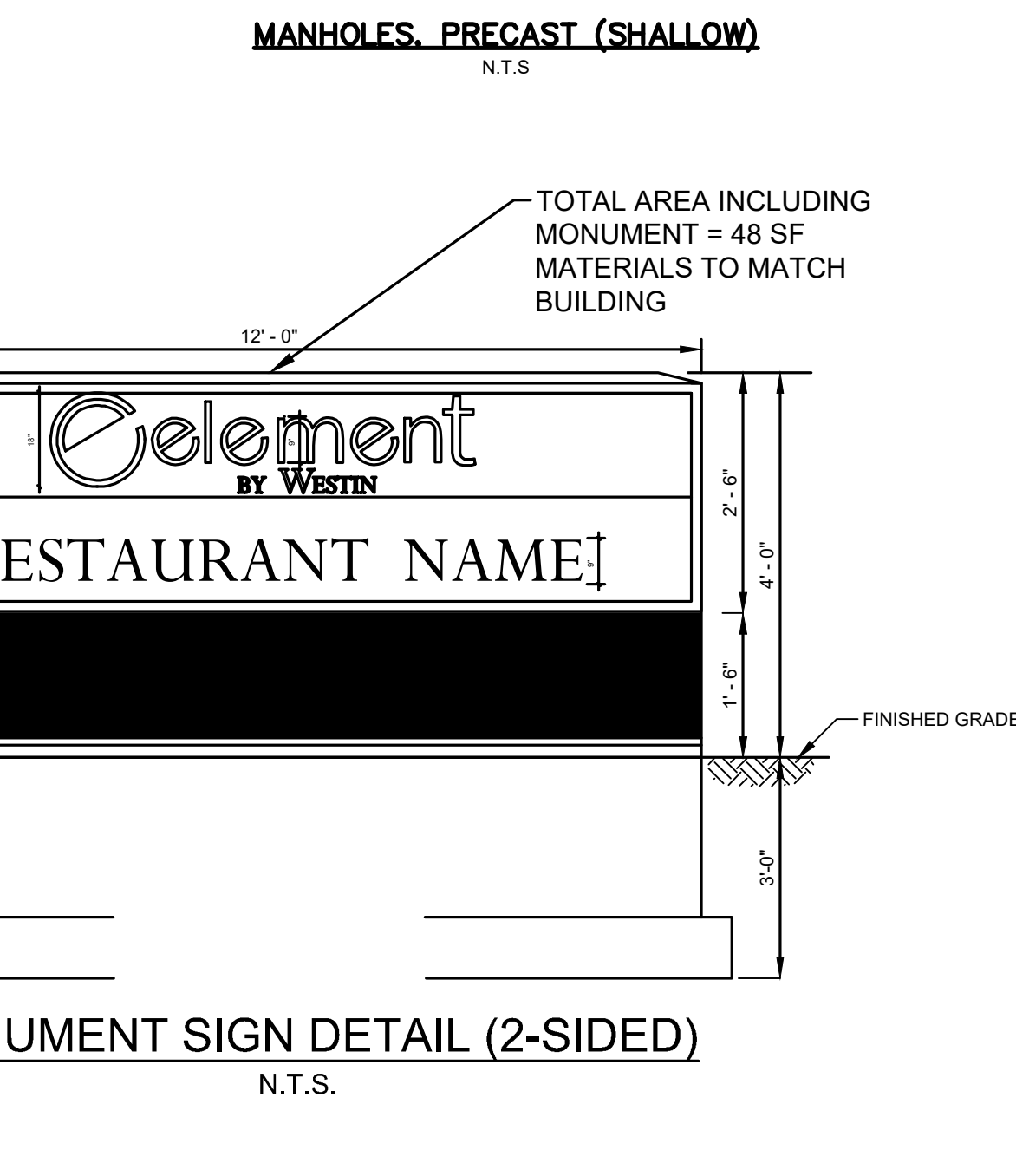
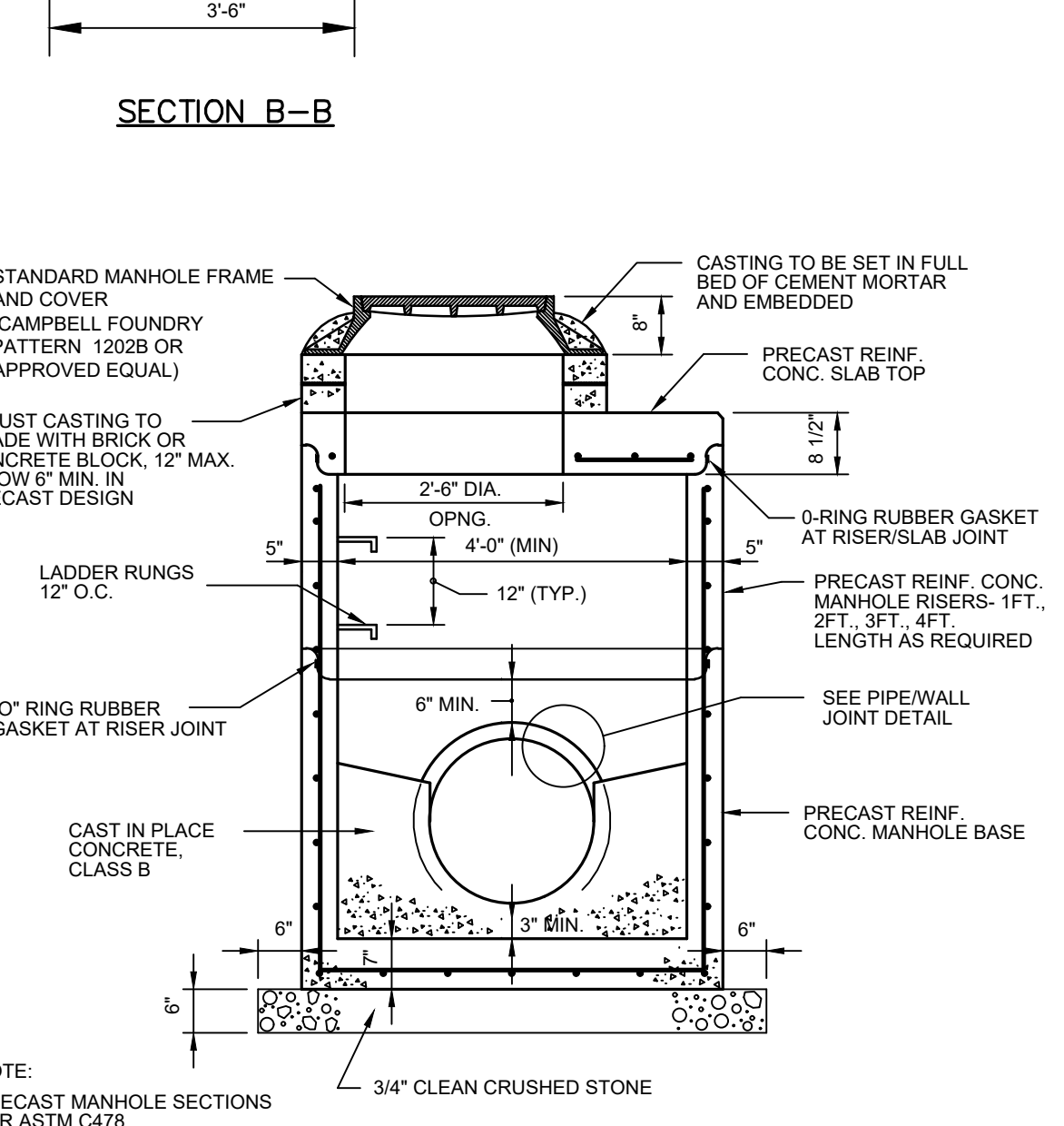
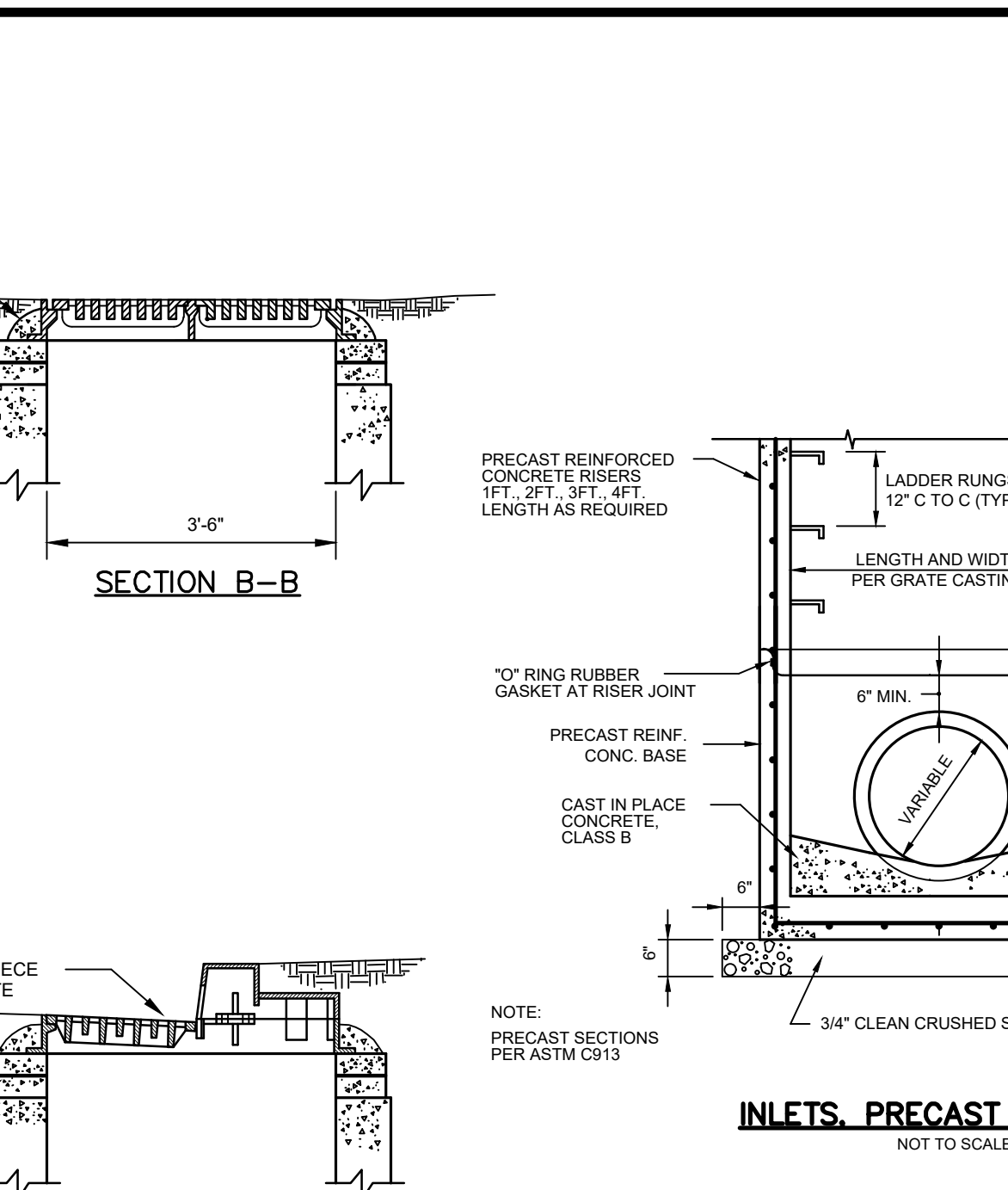
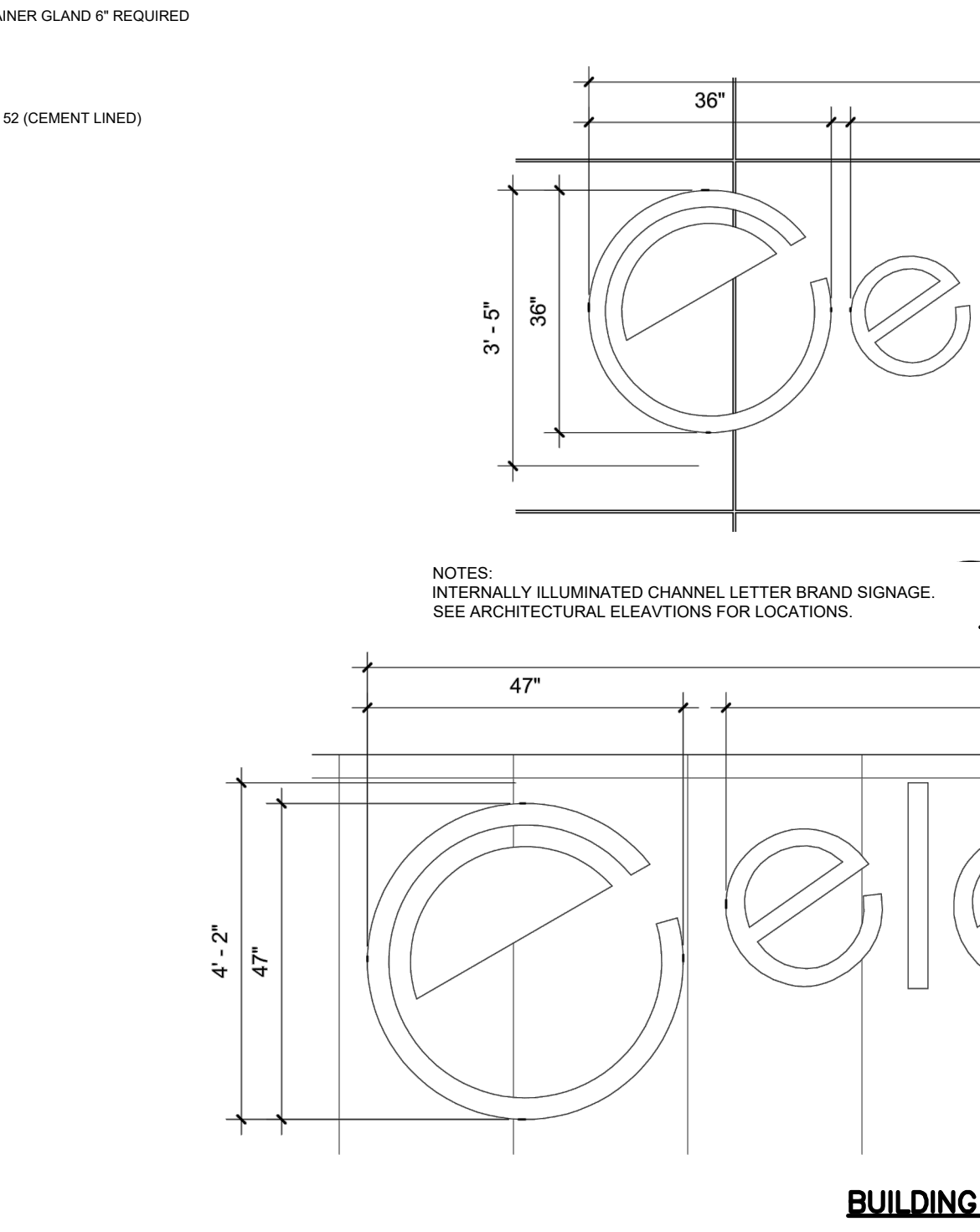
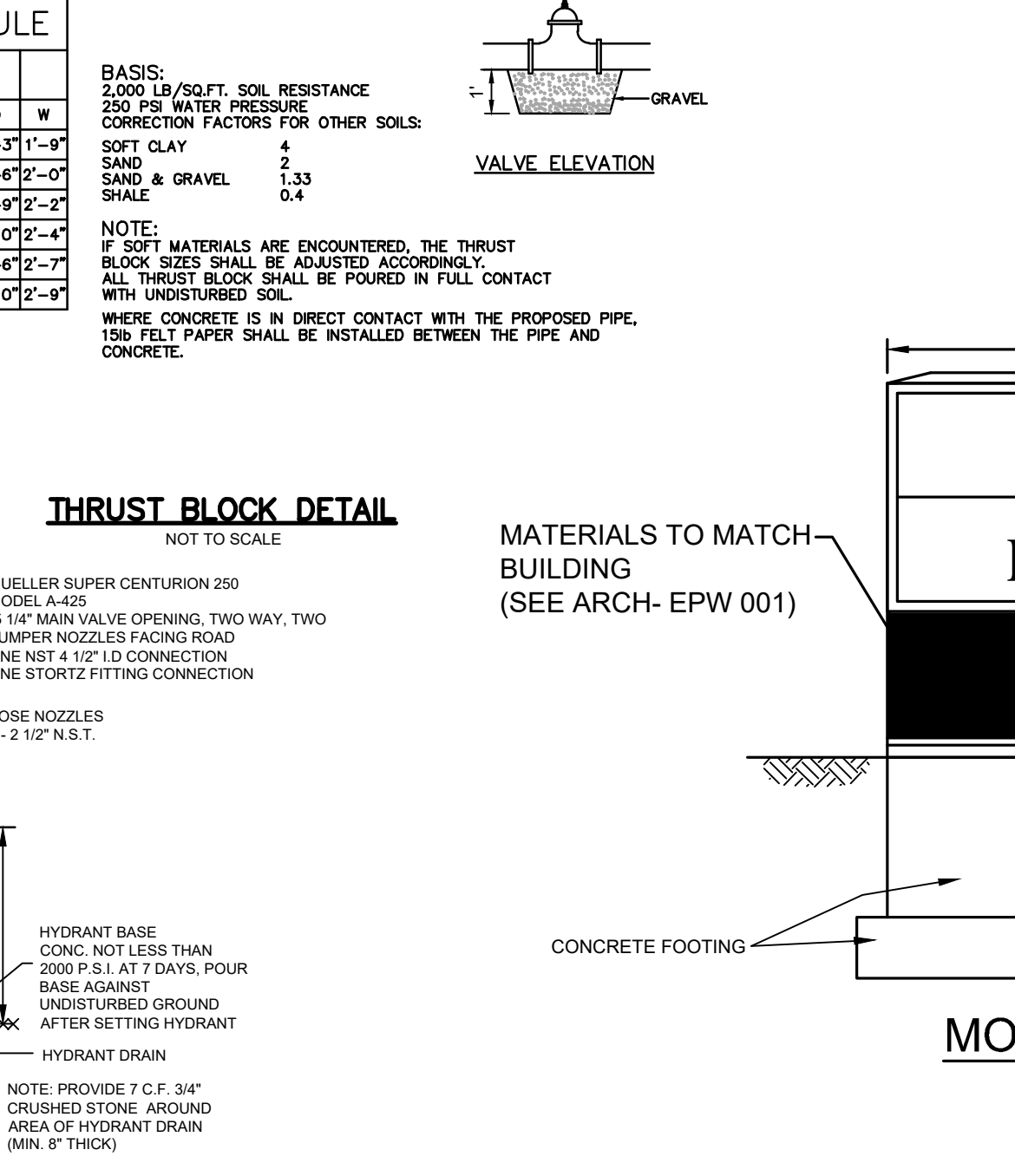
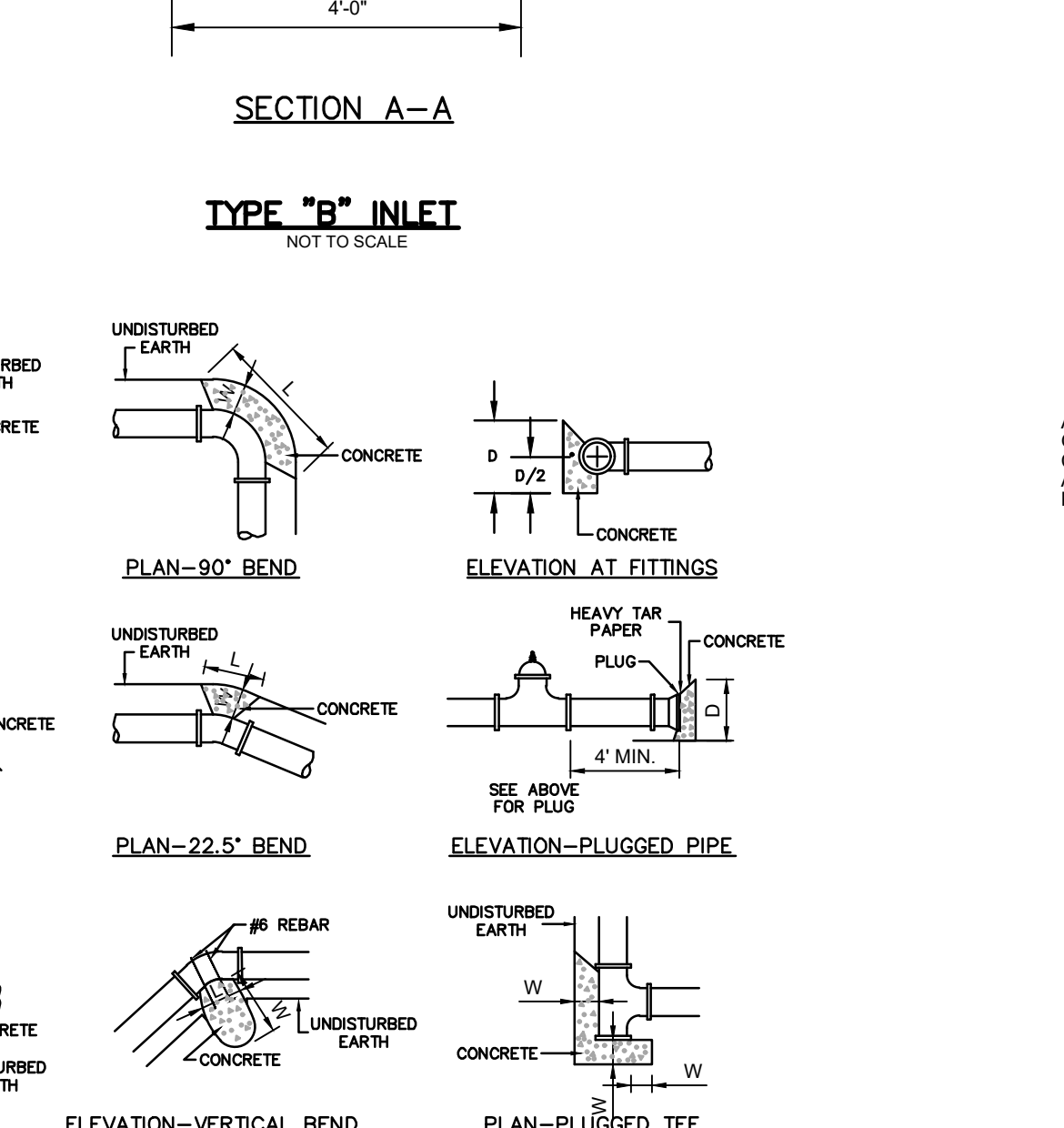
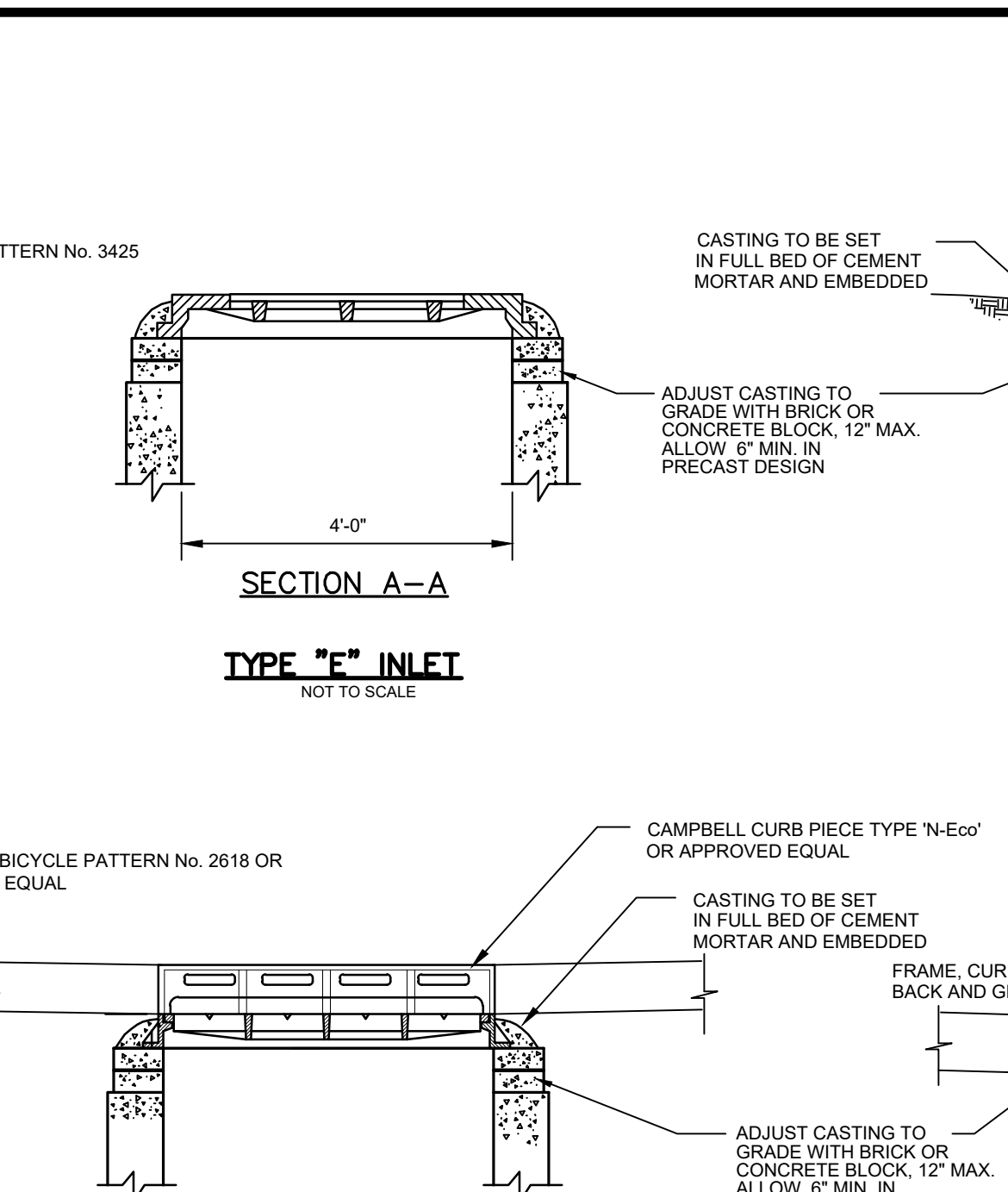
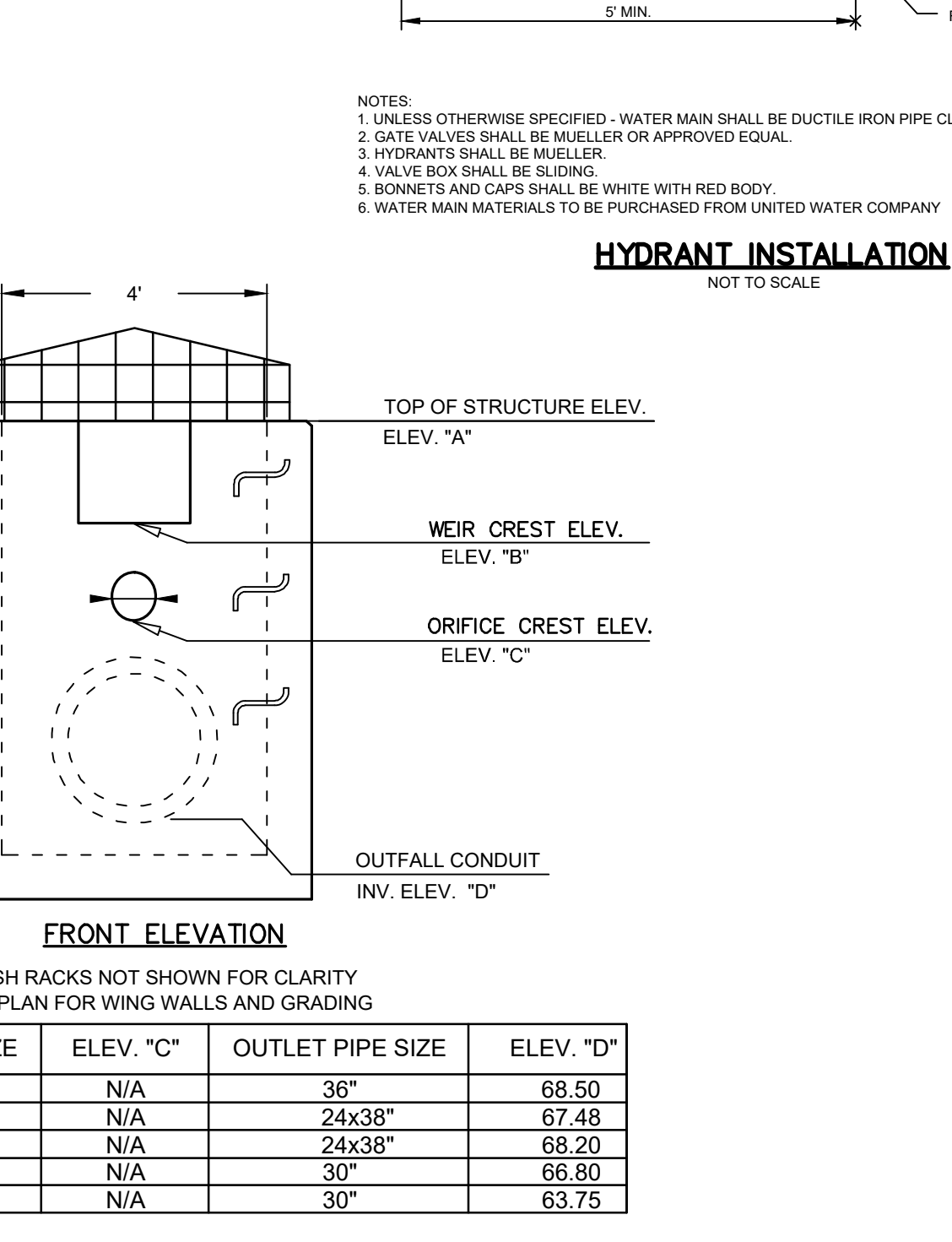
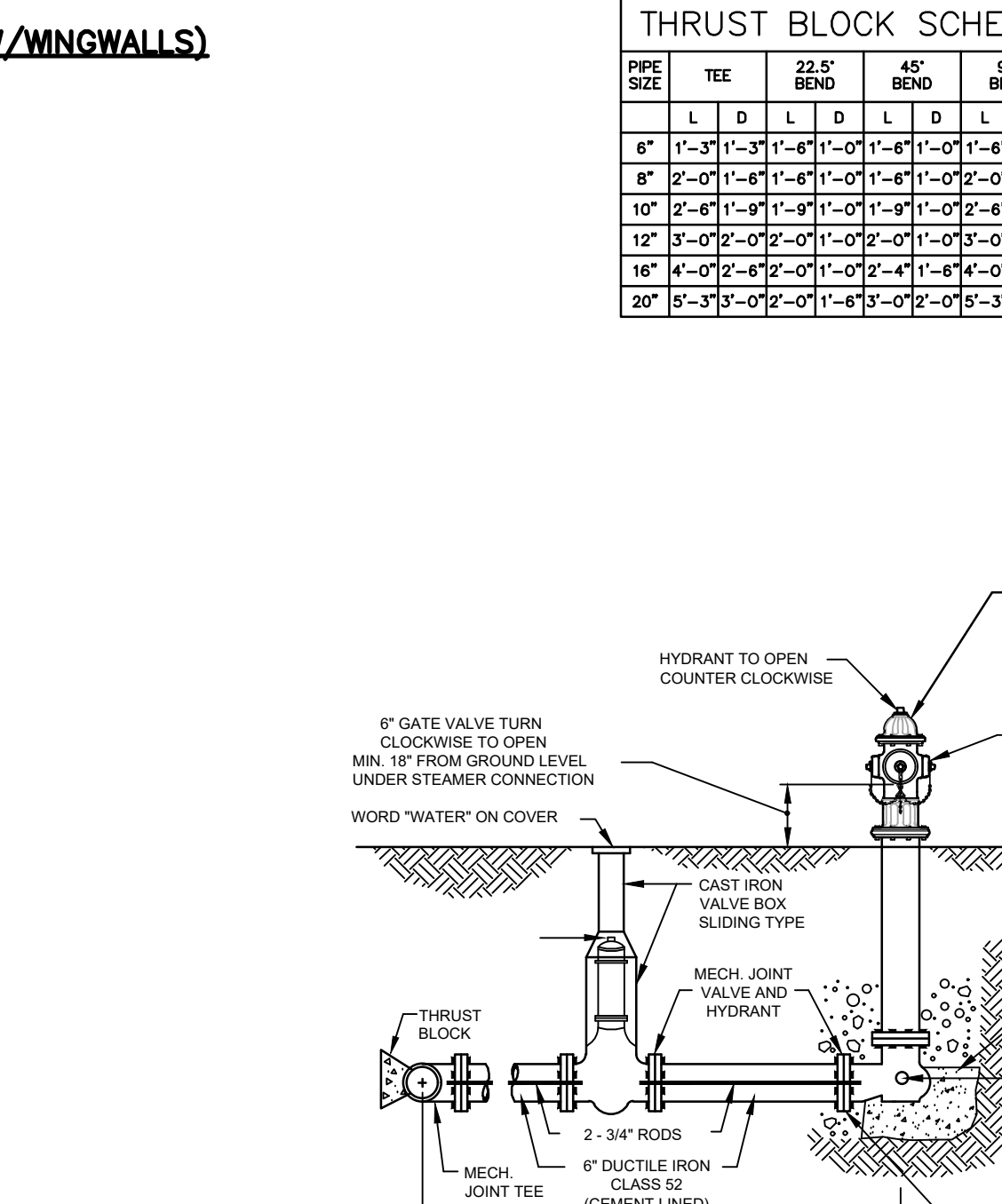
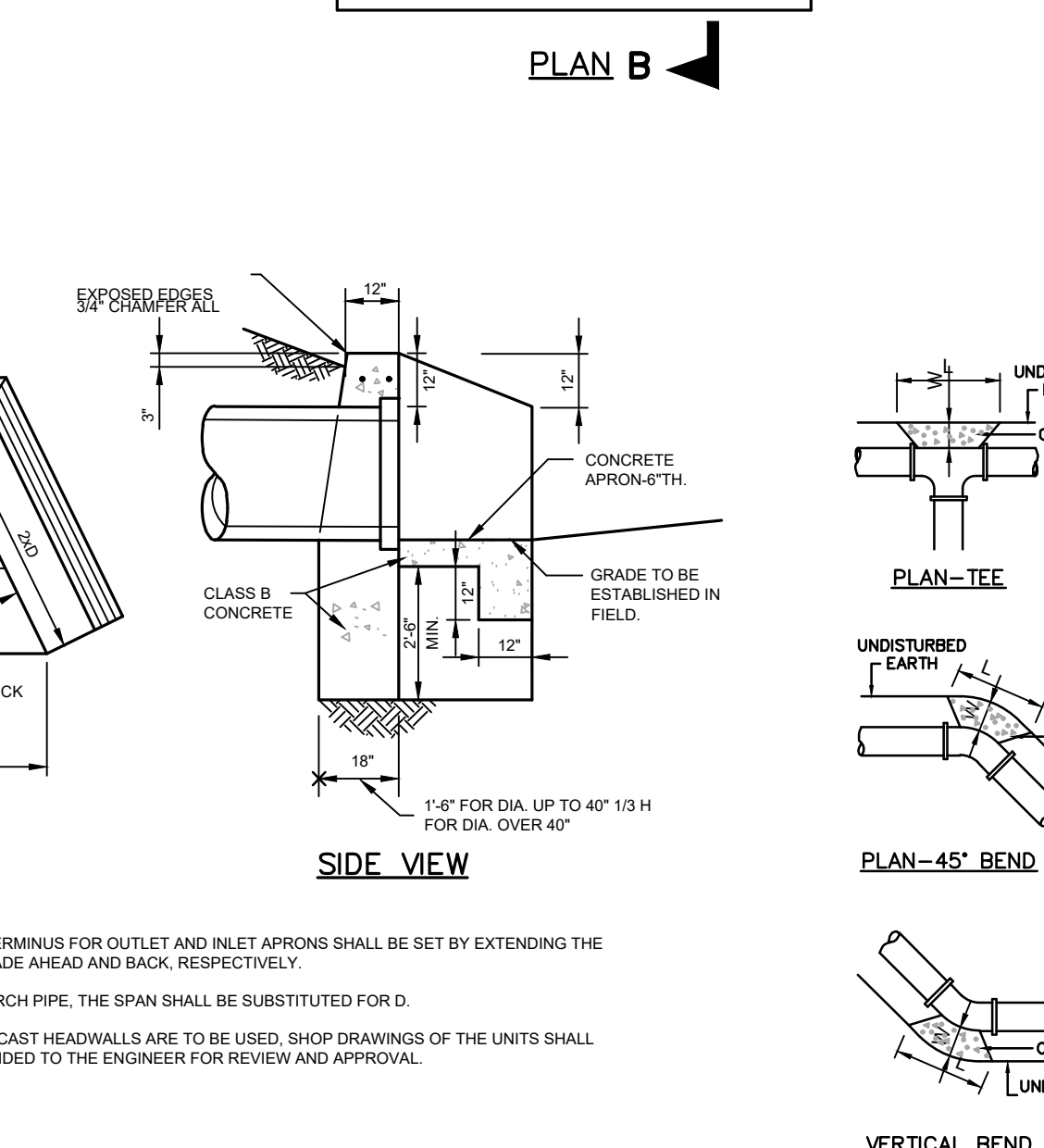
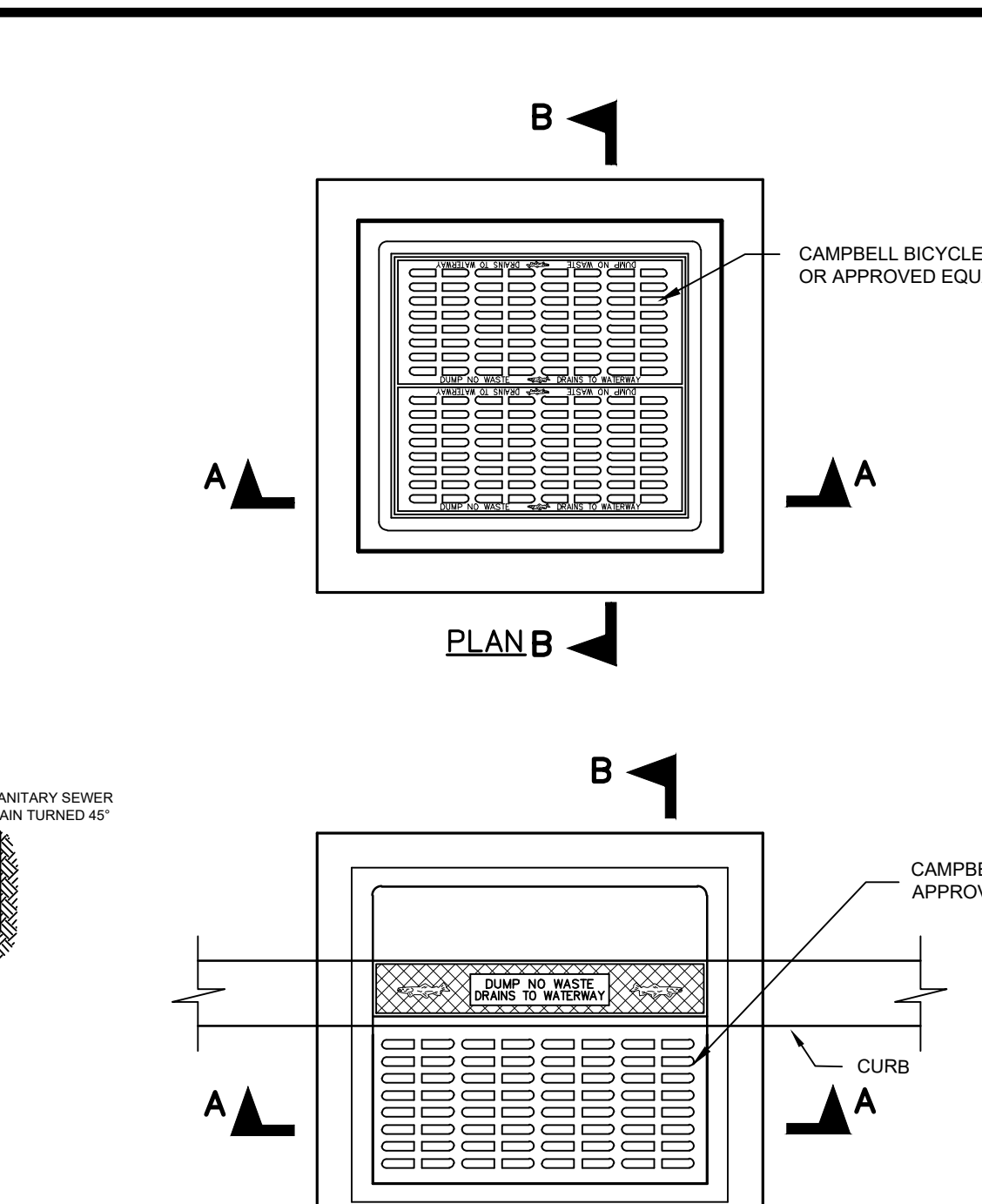
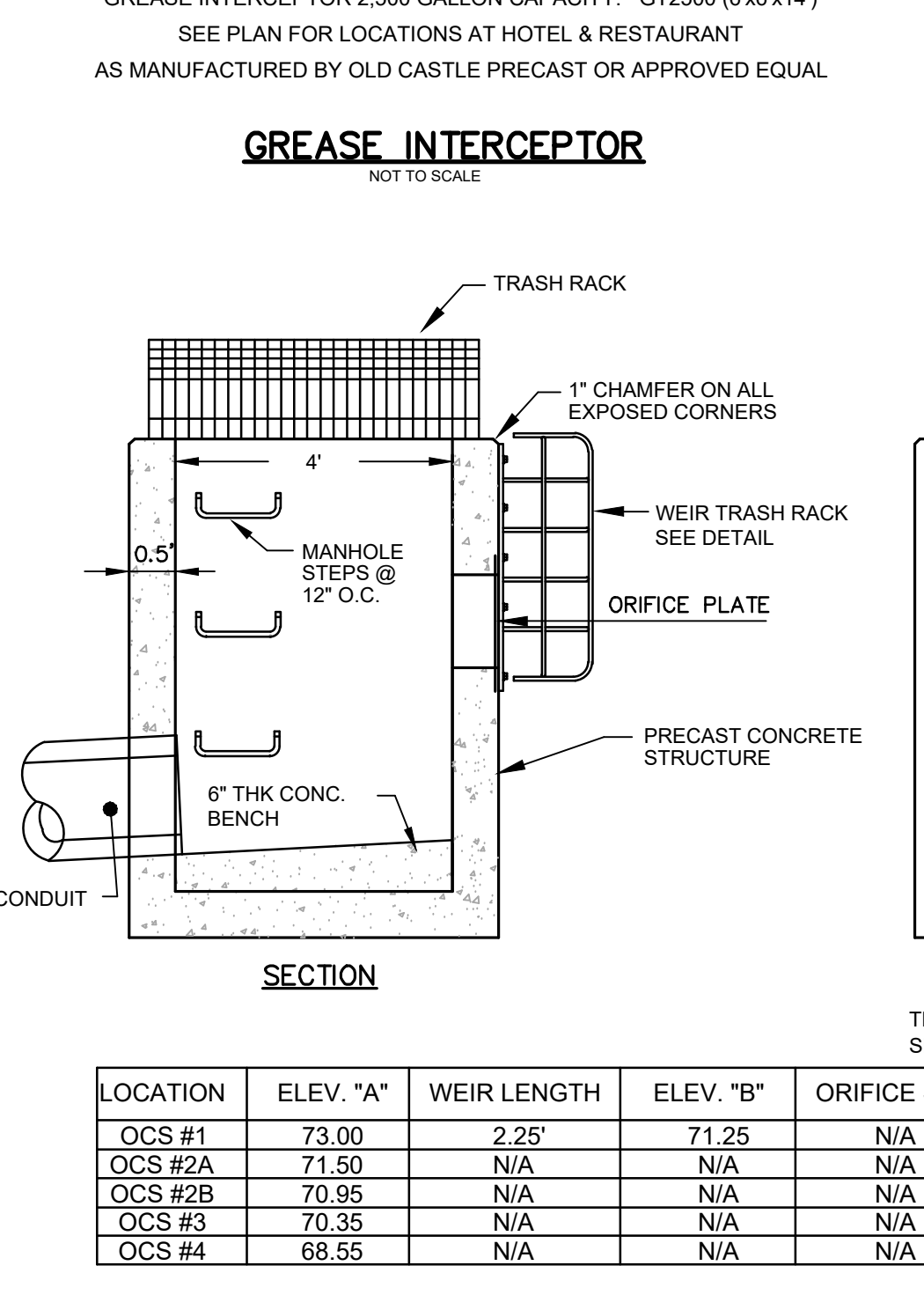
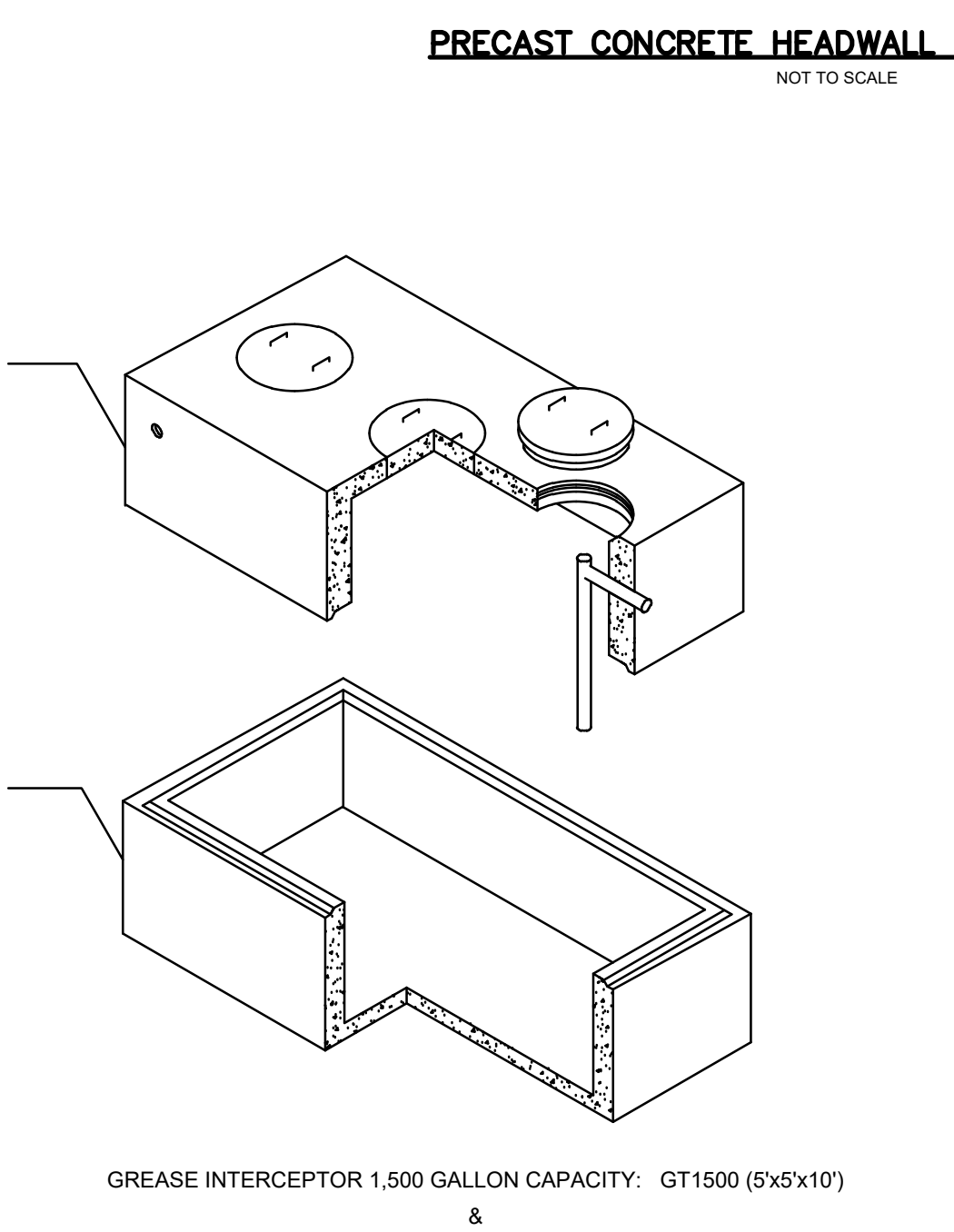
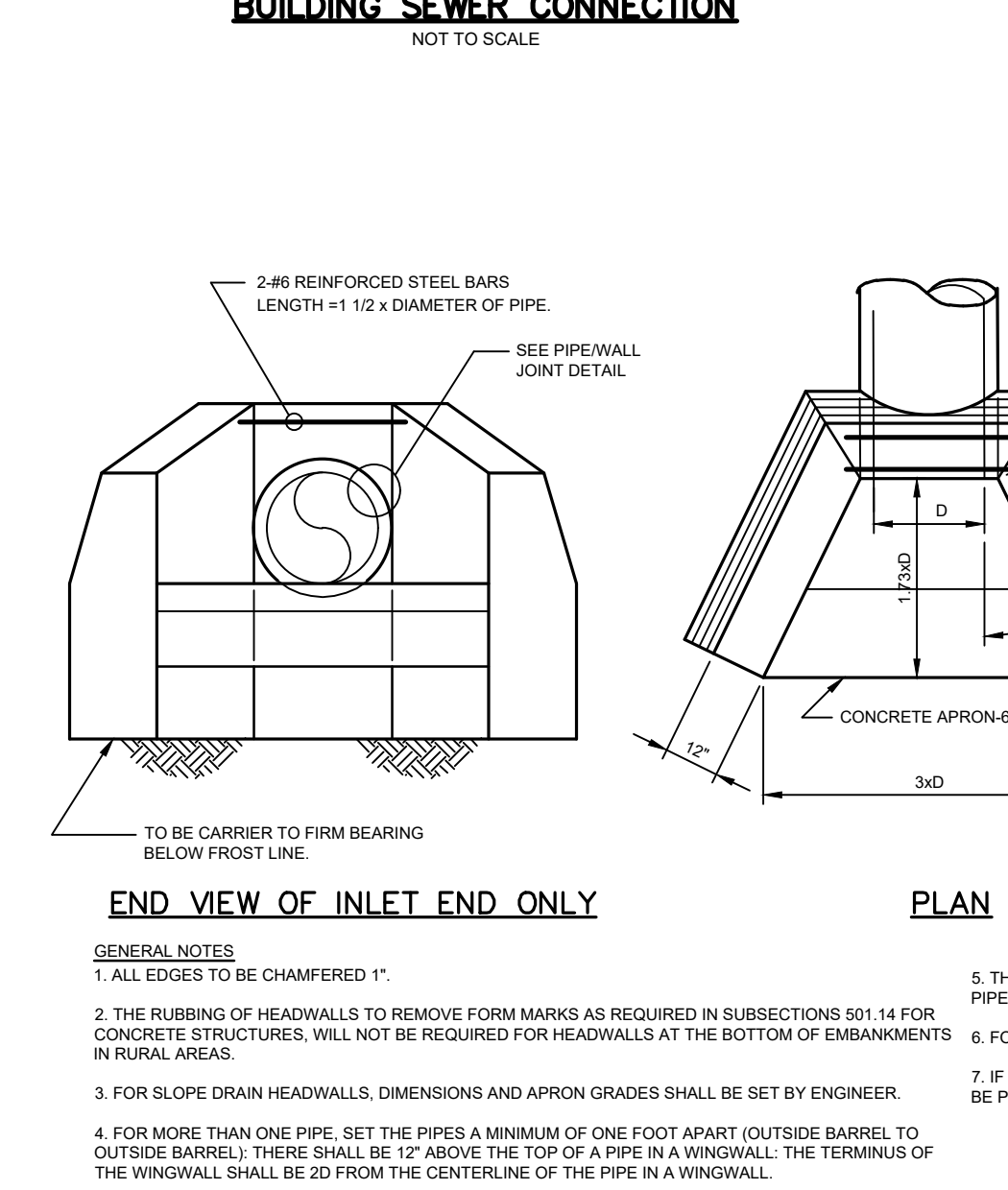
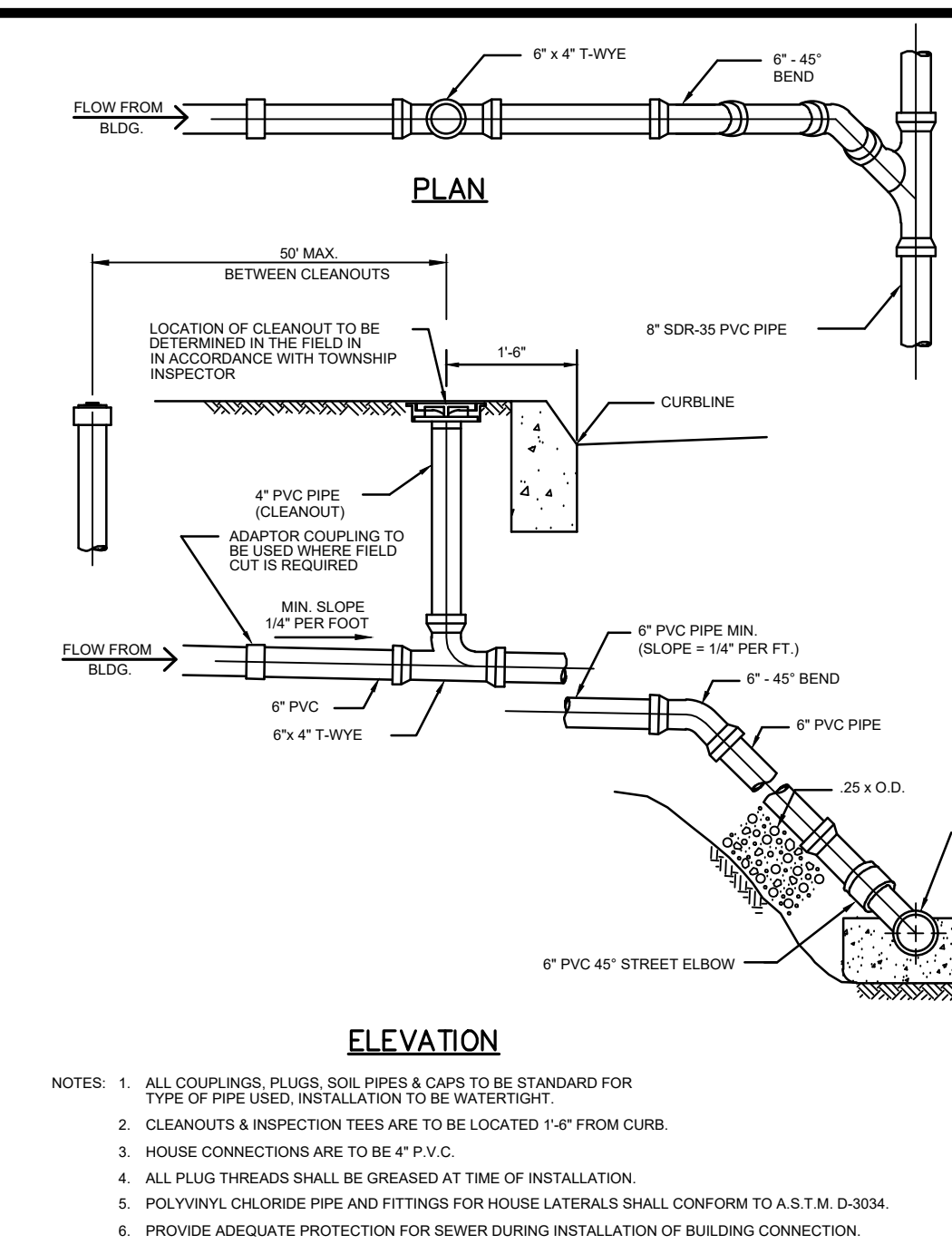
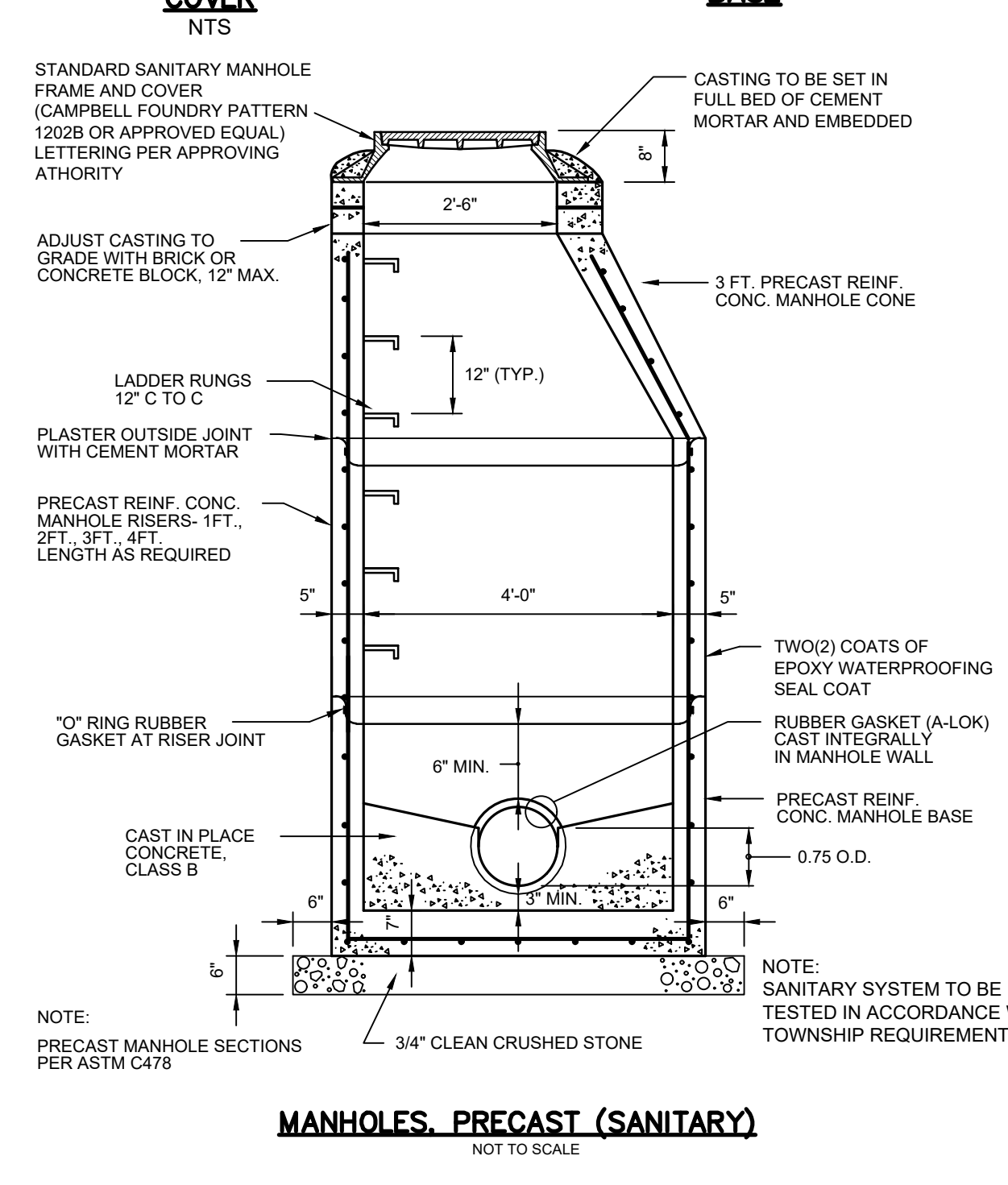
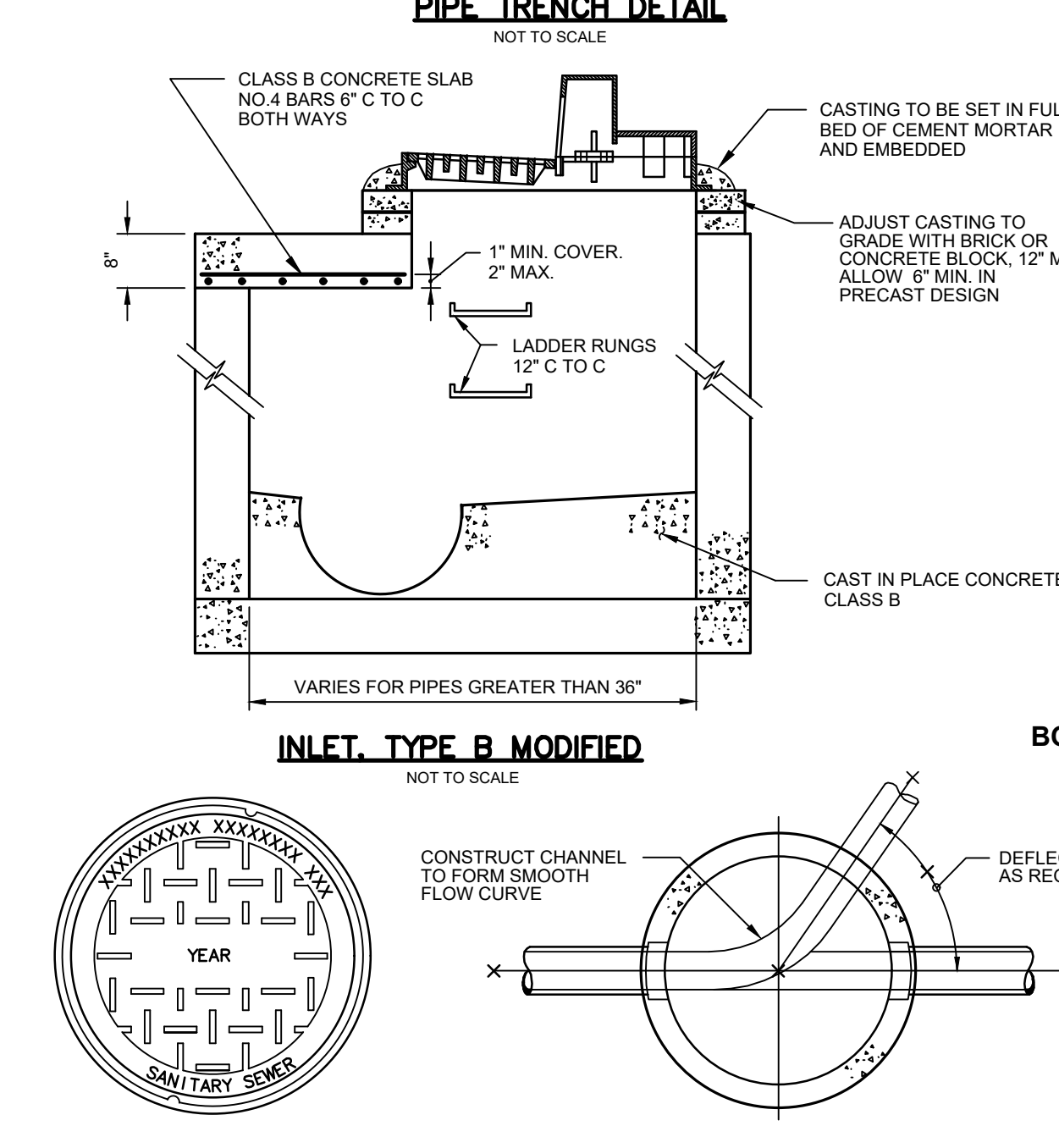
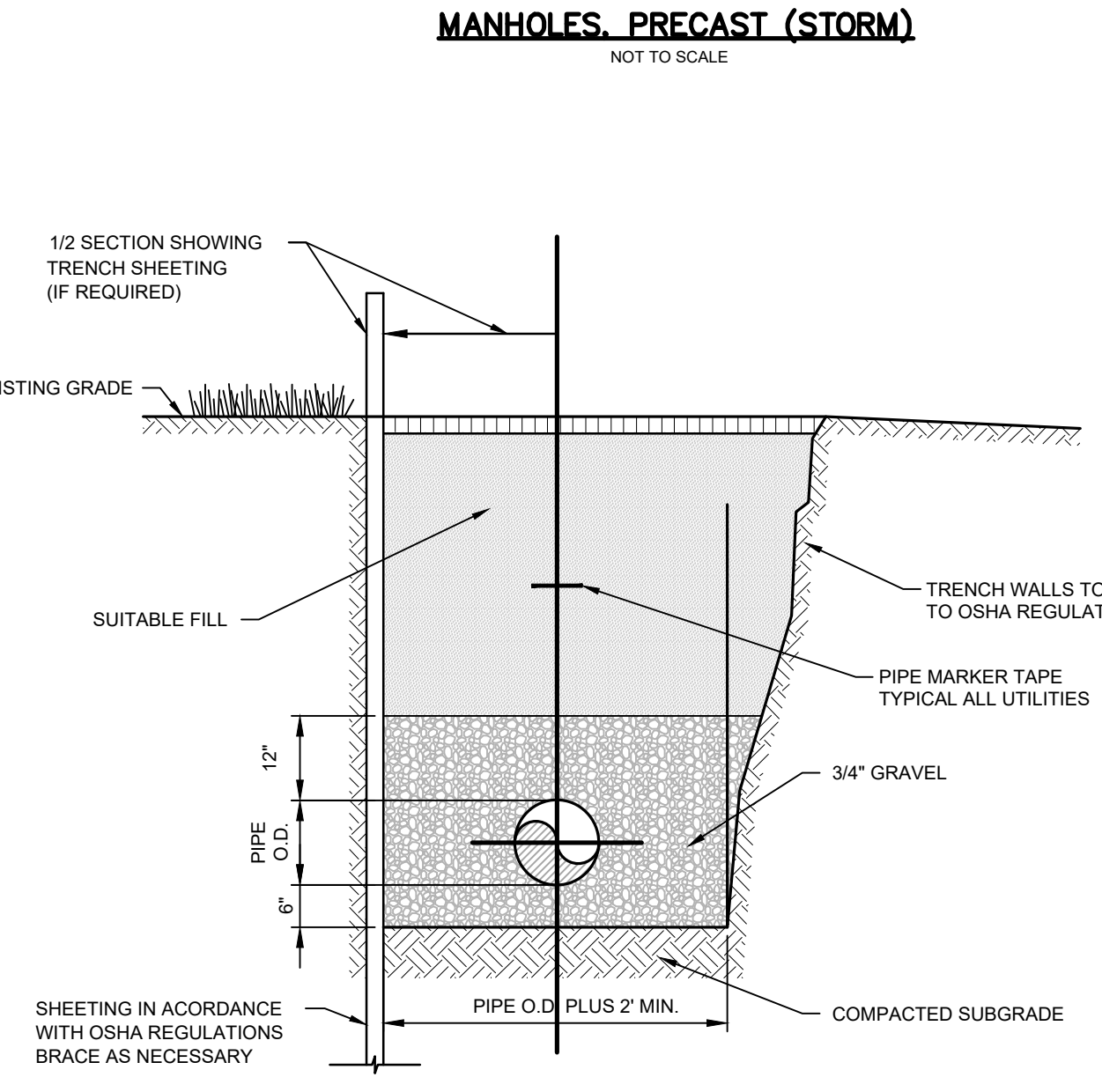
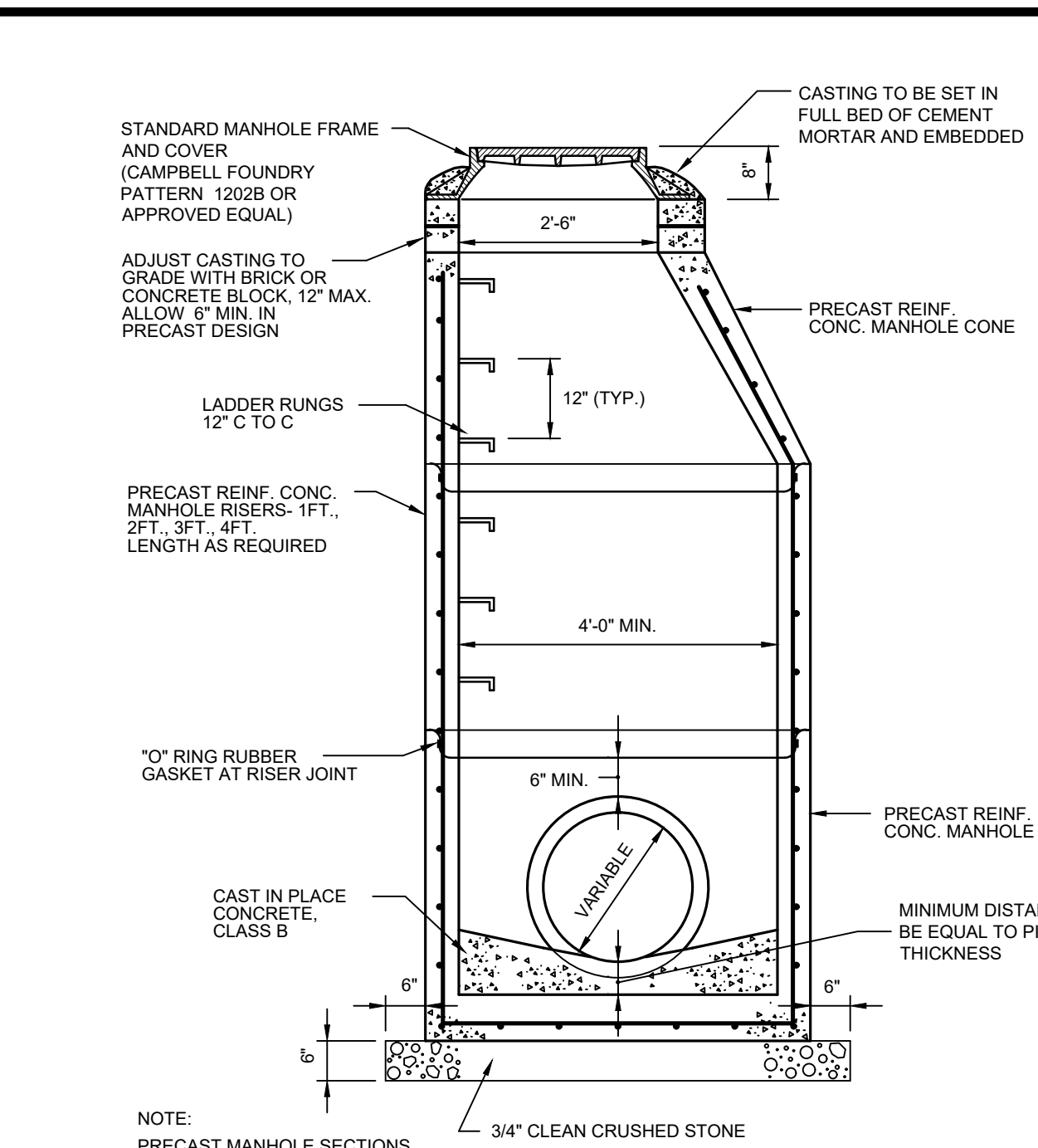
AMENDED FINAL SITE PLAN FOR PHASE 1, HOTEL RESTAURANT
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT

SHEET No. 14

DATE: 08/23/22

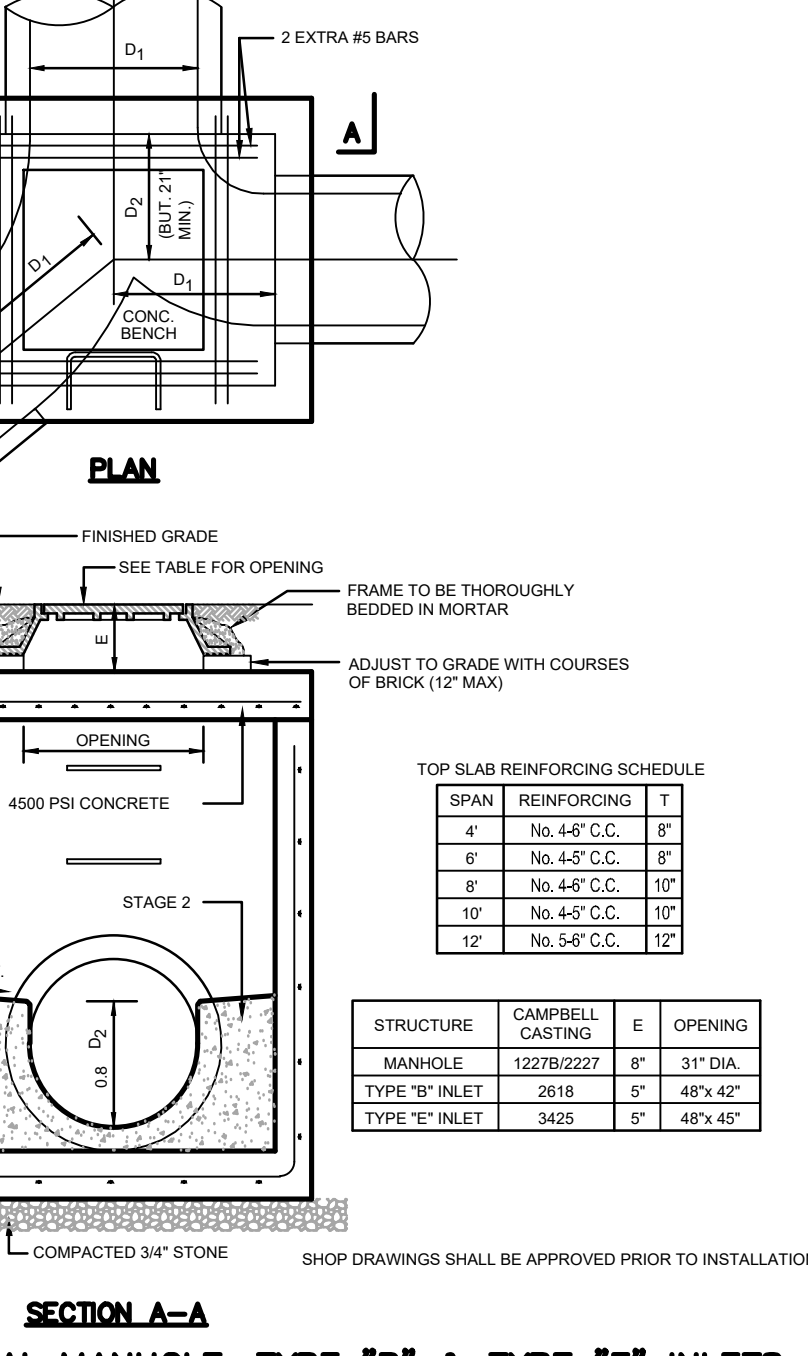
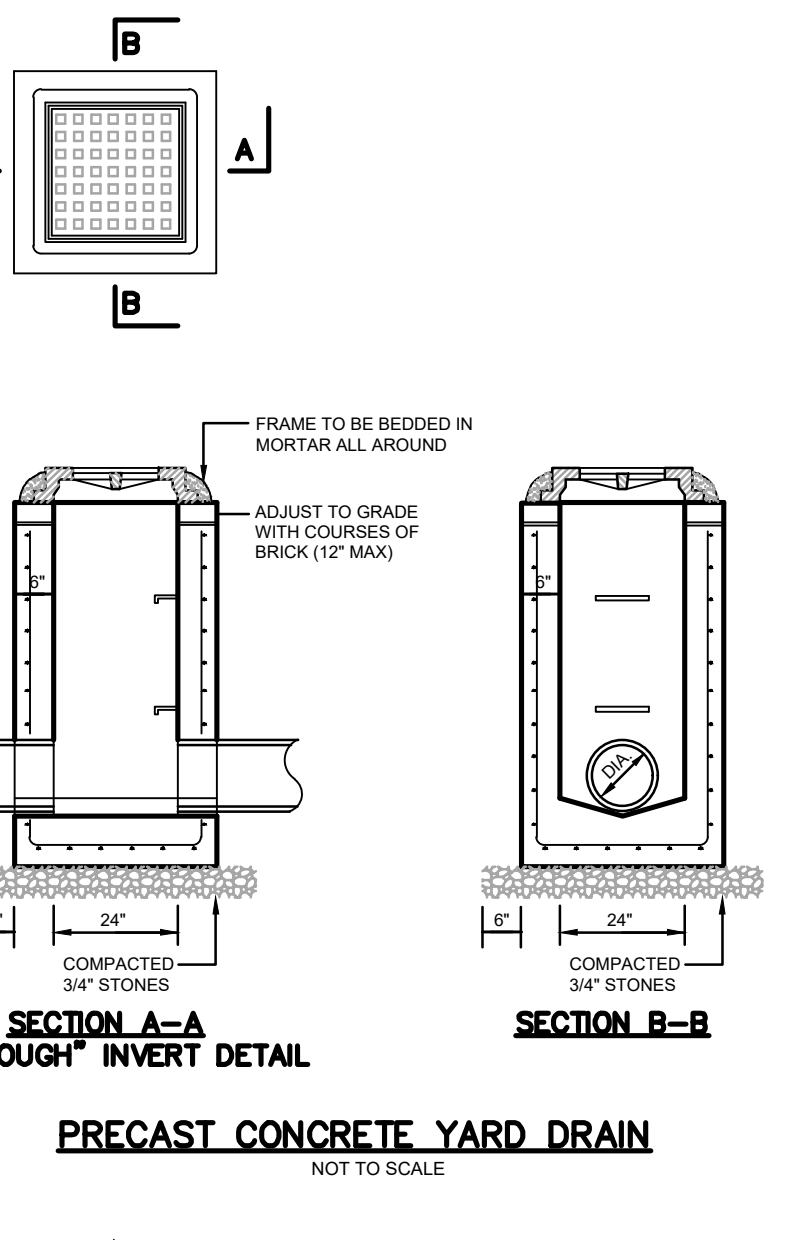
REVISION

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INLET & MANHOLE NOTES

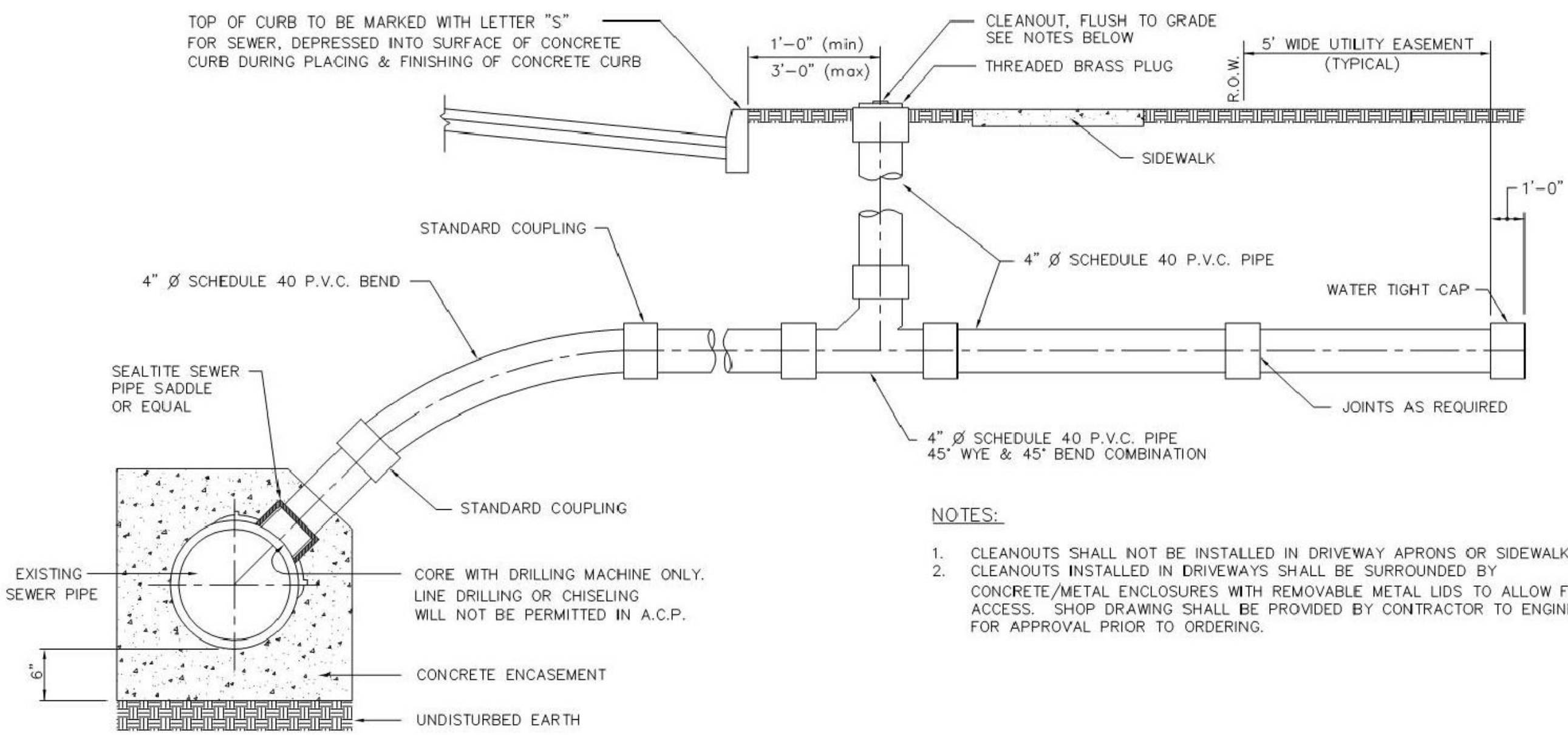
1. SANITARY SYSTEM TO BE FIELD TESTED IN ACCORDANCE WITH TOWNSHIP REQUIREMENTS
2. PRECAST INLETS ARE TO BE CONSTRUCTED PER ASTM C913 AND PRECAST MANHOLES ARE TO BE CONSTRUCTED PER ASTM C478. FOUNDATIONS FOR PRECAST INLETS AND MANHOLES SHALL BE PLACED ON A 6\"/>



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 Phone: 732-665-5000
 Fax: 732-665-5001
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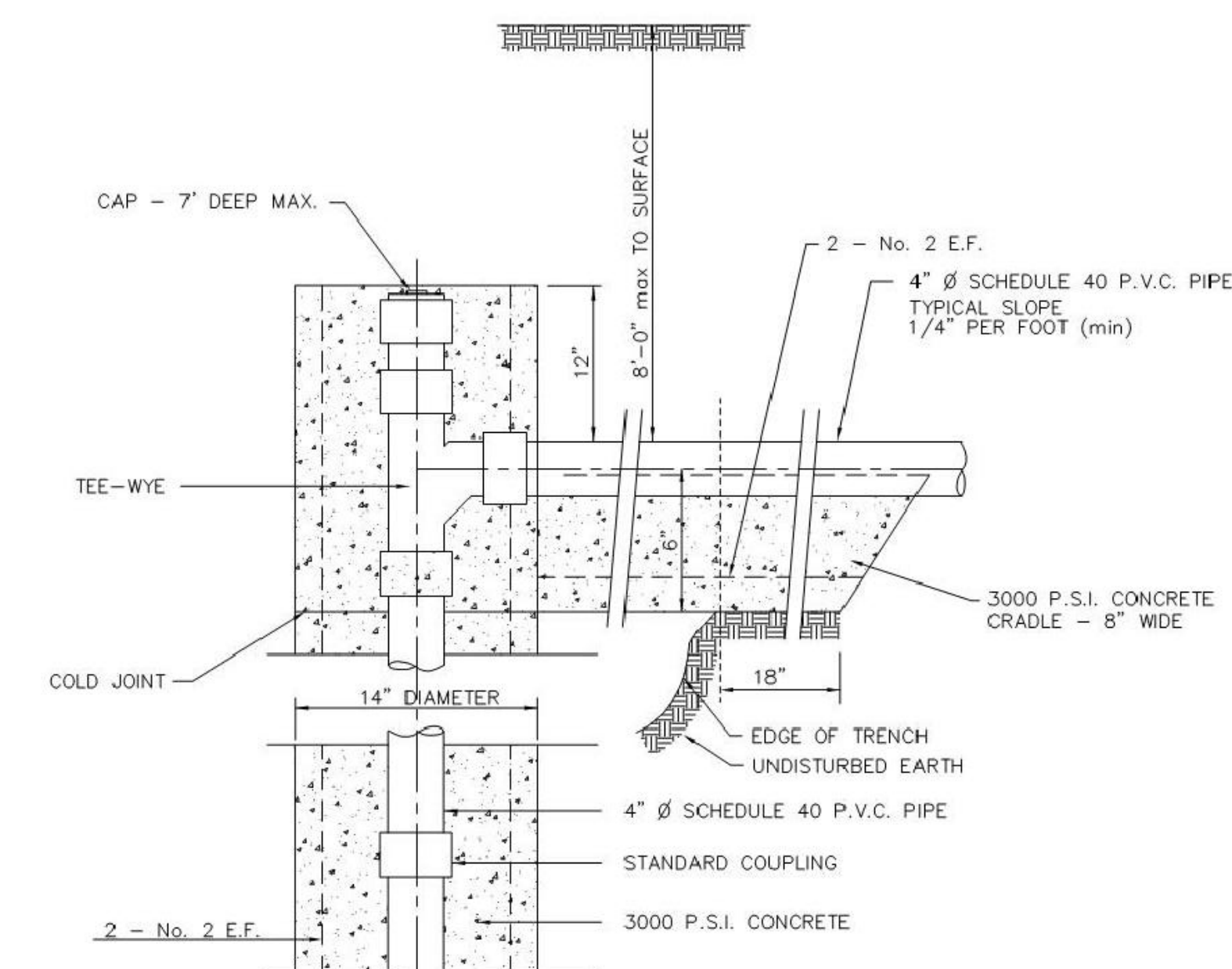
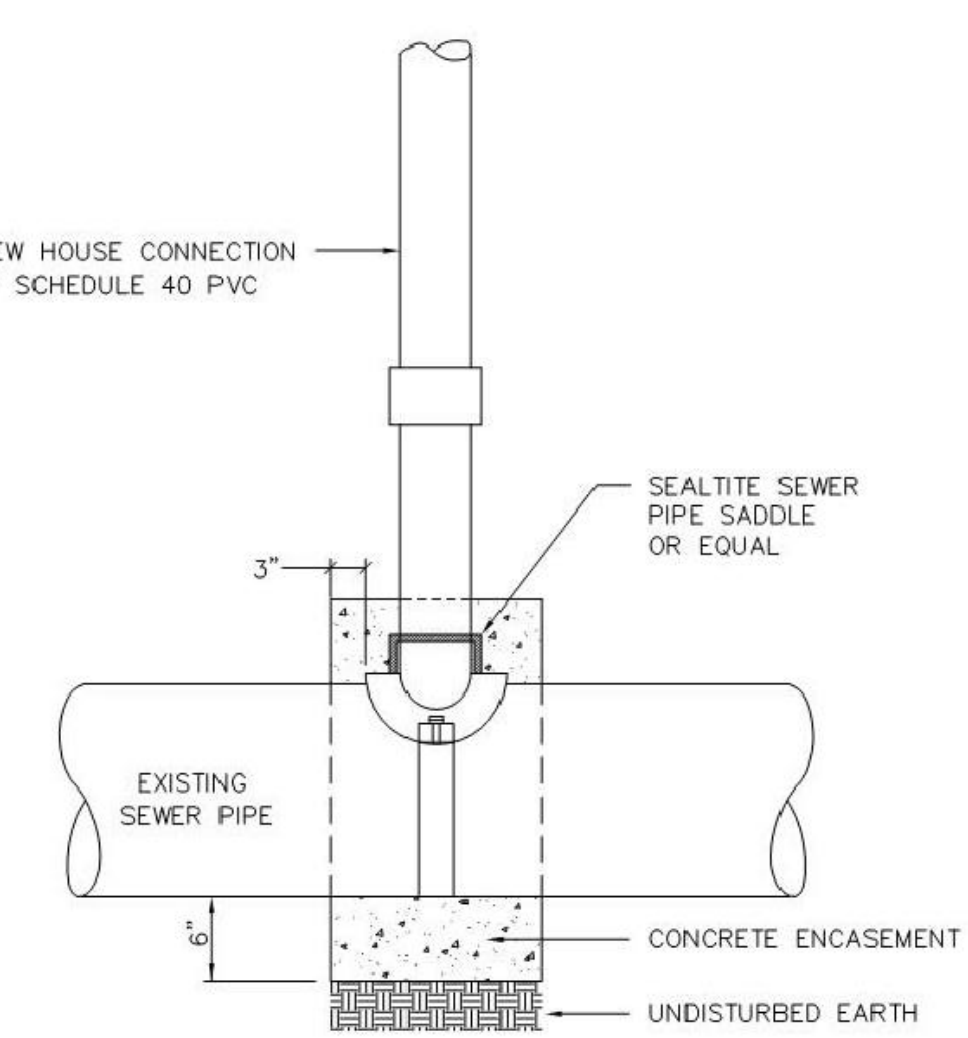
AMENDED FINAL SITE PLAN FOR PHASE 1: HOTEL
 AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
CONSTRUCTION DETAILS
 SHEET No. **14**
 OF **B**

08822-02-001 - West Windsor 08822-02-001 (ENCL) - 08822-02-001 - West Windsor-Broad Hoboken Engineering Plans_SHT-Details.dwg 12/14/22 06:37:35PM, west, LAYOUT: SHT-15A



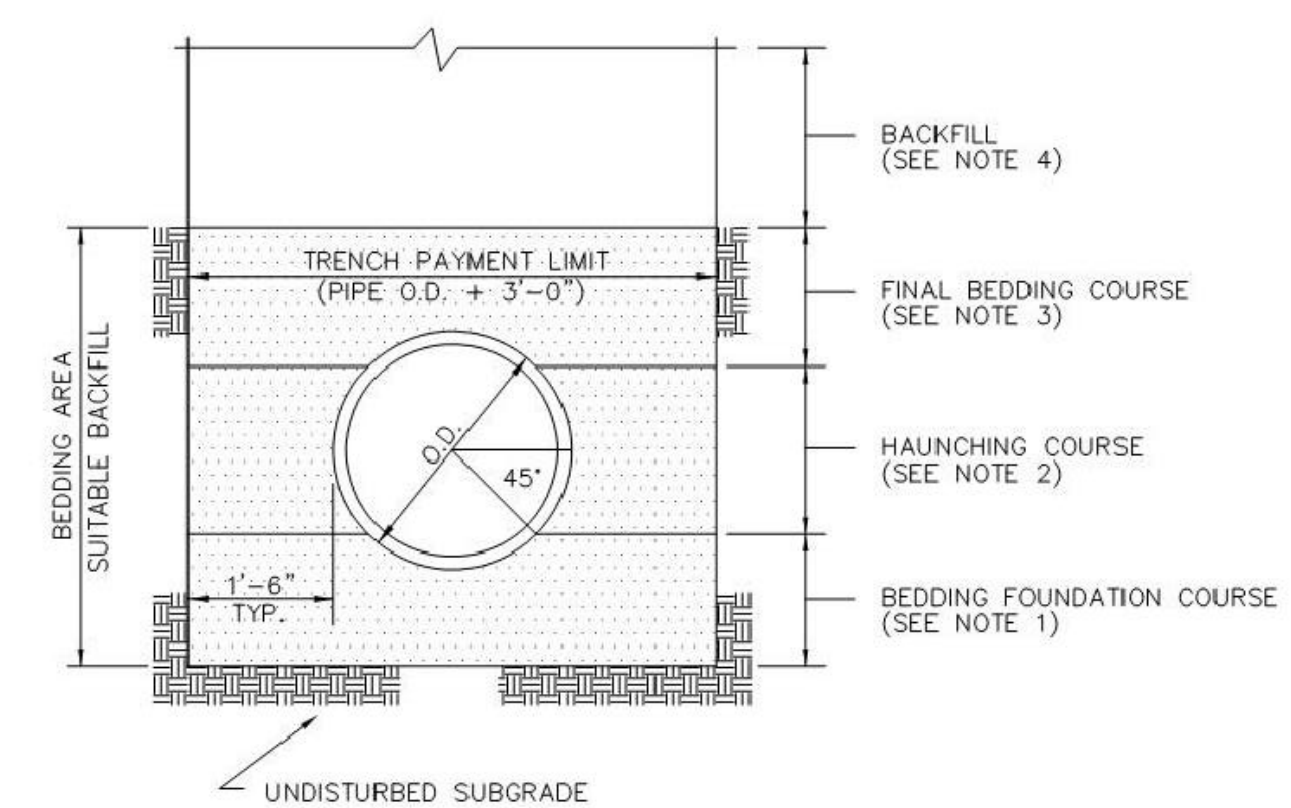
CONNECTION TO EXISTING A.C.P. SEWER MAIN
(INCLUDING TYPICAL HOUSE CONNECTION)
NO SCALE

- NOTES:
1. CLEANOUTS SHALL NOT BE INSTALLED IN DRIVEWAY APRONS OR SIDEWALKS. CLEANOUTS INSTALLED IN DRIVEWAYS SHALL BE SURROUNDED BY CONCRETE/METAL ENCLOSURES WITH REMOVABLE METAL LIDS TO ALLOW FOR ACCESS. SHOP DRAWING SHALL BE PROVIDED BY CONTRACTOR TO ENGINEER FOR APPROVAL PRIOR TO ORDERING.



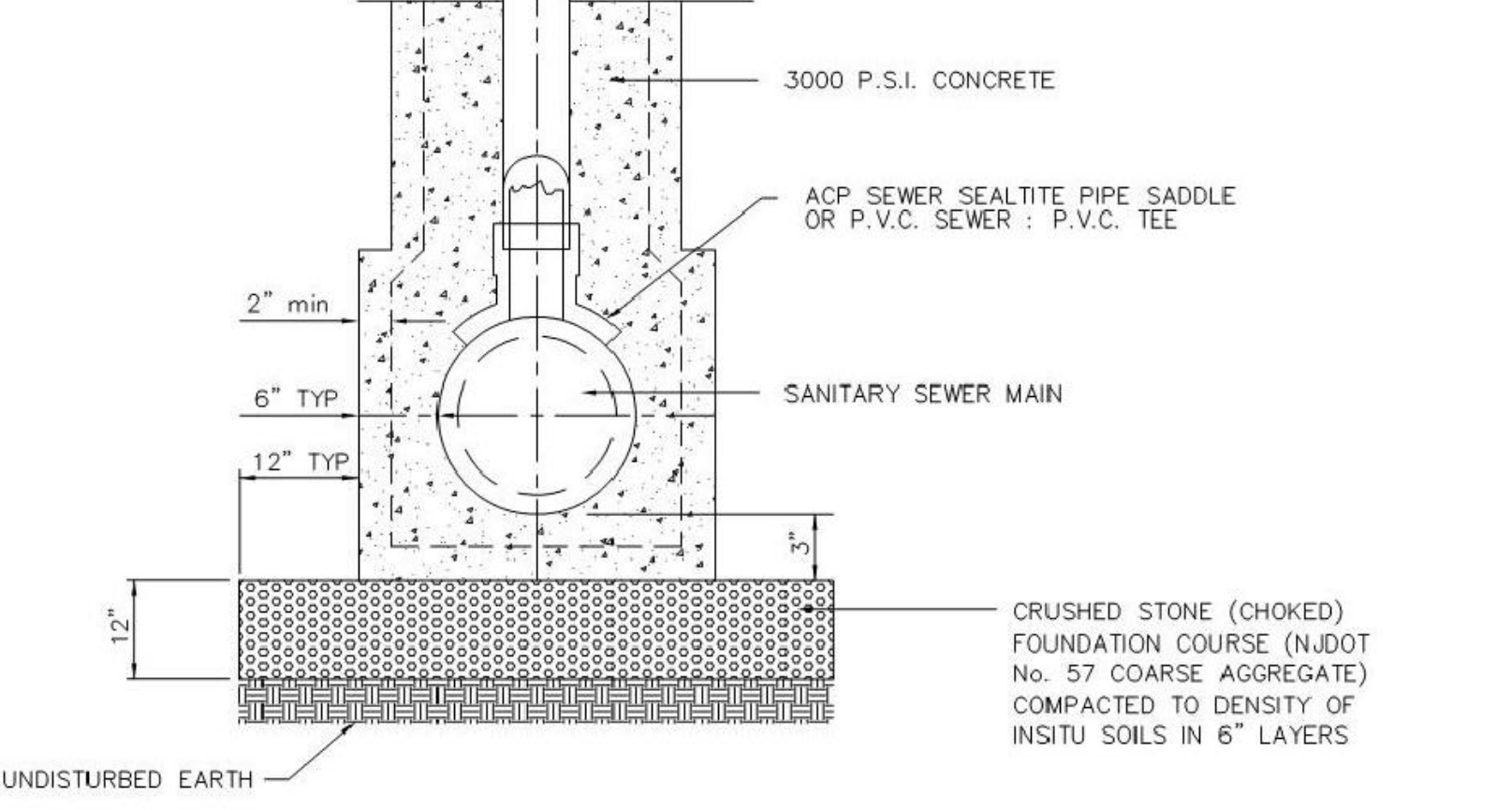
TYPICAL HOUSE CONNECTION TO NEW P.V.C. SEWER MAIN
NO SCALE

- NOTES:
1. ALL COUPLINGS, PLUGS & CAPS SHALL BE STANDARD FOR TYPE OF PIPE & INSTALLATION TO BE WATERTIGHT.
 2. CLEANOUTS OR INSPECTION WYES ARE TO BE LOCATED AS SHOWN ON DETAIL.
 3. 1/4" PER FOOT SLOPE GOVERNS OVER CONFLICTS WITH THE 5-FOOT MINIMUM COVER DIMENSION.
 4. FOR PIPE BEDDING DETAILS SEE DETAILS ON THIS SHEET.
 5. WHERE A NEW P.V.C. HOUSE CONNECTION IS TO BE INSTALLED ALL COUPLINGS SHALL BE STANDARD.
 6. WHERE ONE EXISTING 8-INCH A.C.P. SEWER MAIN HAS BEEN REMOVED AND REPLACED WITH 8-INCH SDR-35 P.V.C. SEWER MAIN, THE EXISTING HOUSE CONNECTIONS, MAY BE RECONNECTED TO THE NEW SEWER MAIN WITH A DRESSER STYLE 162 TRANSITION COUPLING, OR APPROVED EQUAL.

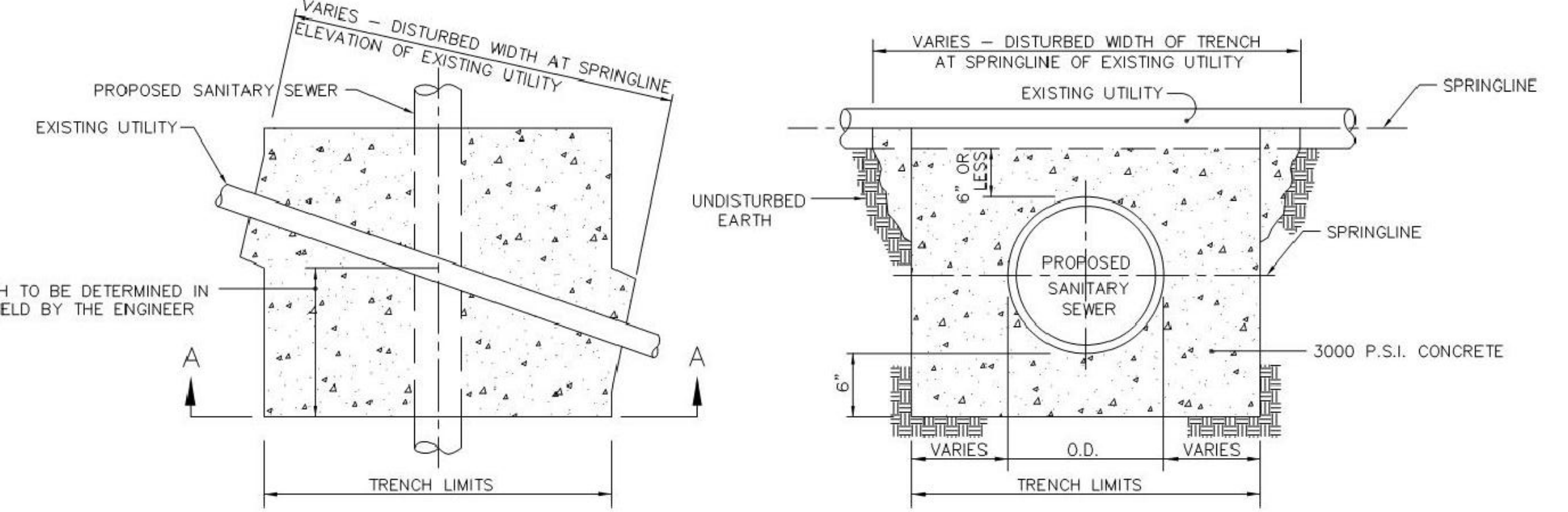


PIPE BEDDING DETAIL
NO SCALE

- NOTES:
1. BEDDING FOUNDATION COURSE: EXISTING TRENCH EXCAVATION MATERIAL MAY BE USED IF DETERMINED SUITABLE BY THE ENGINEER. UNSUITABLE TRENCH MATERIALS SHALL BE REMOVED AND REPLACED WITH CRUSHED STONE. (SEE NOTE DEEP HOUSE CONNECTIONS). EXISTING MATERIALS DETERMINED TO BE SUITABLE THAT HAVE BEEN DISTURBED, SHALL BE RECOMPACTED TO A DENSITY EQUAL TO THAT OF THE UNDISTURBED. RECOMPACTING SHALL TAKE PLACE PRIOR TO PIPE INSTALLATION. IN ALL CASES THE BEDDING FOUNDATION COURSE SHALL PROVIDE UNIFORM, CONTINUOUS AND ADEQUATE SUPPORT FOR THE PIPE.
 2. HAUNCHING COURSE: TO BE SELECT OR SUITABLE BACKFILL SO AS PROVIDE LATERAL SUPPORT TO PREVENT DEFLECTION OR MOVEMENT OF THE PIPE BOTH VERTICALLY AND HORIZONTALLY. MATERIAL TO BE SAME AS BEDDING FOUNDATION COURSE.
 3. FINAL BEDDING COURSE: TO BE SELECT OR SUITABLE BACKFILL, TAMPING ON SIDE OF PIPE REQUIRED WITH CAUTIOUS TAMPING DIRECTLY OVER TOP OF PIPE TO PRECLUDE MOVEMENT OR DEFLECTION OF PIPE. MATERIAL TO BE PLACED IN 6-INCH LIFTS.
 4. BACKFILL ABOVE THE BEDDING AREA SHALL BE A SUITABLE MATERIAL, COMPACTED TO A DENSITY EQUAL TO OR GREATER THAN THE ADJACENT UNDISTURBED MATERIALS. SAID COMPACTION TO BE REACHED PRIOR TO BITUMINOUS STAB. BASE COURSE CONSTRUCTION. DENSITY TESTS MAY BE REQUIRED BY THE TOWNSHIP ENGINEER AND COSTS OF SAME TO BE BORNE BY THE CONTRACTOR OR DEVELOPER.
 5. CLEANOUTS SHALL NOT BE INSTALLED IN DRIVEWAY APRONS OR SIDEWALKS.

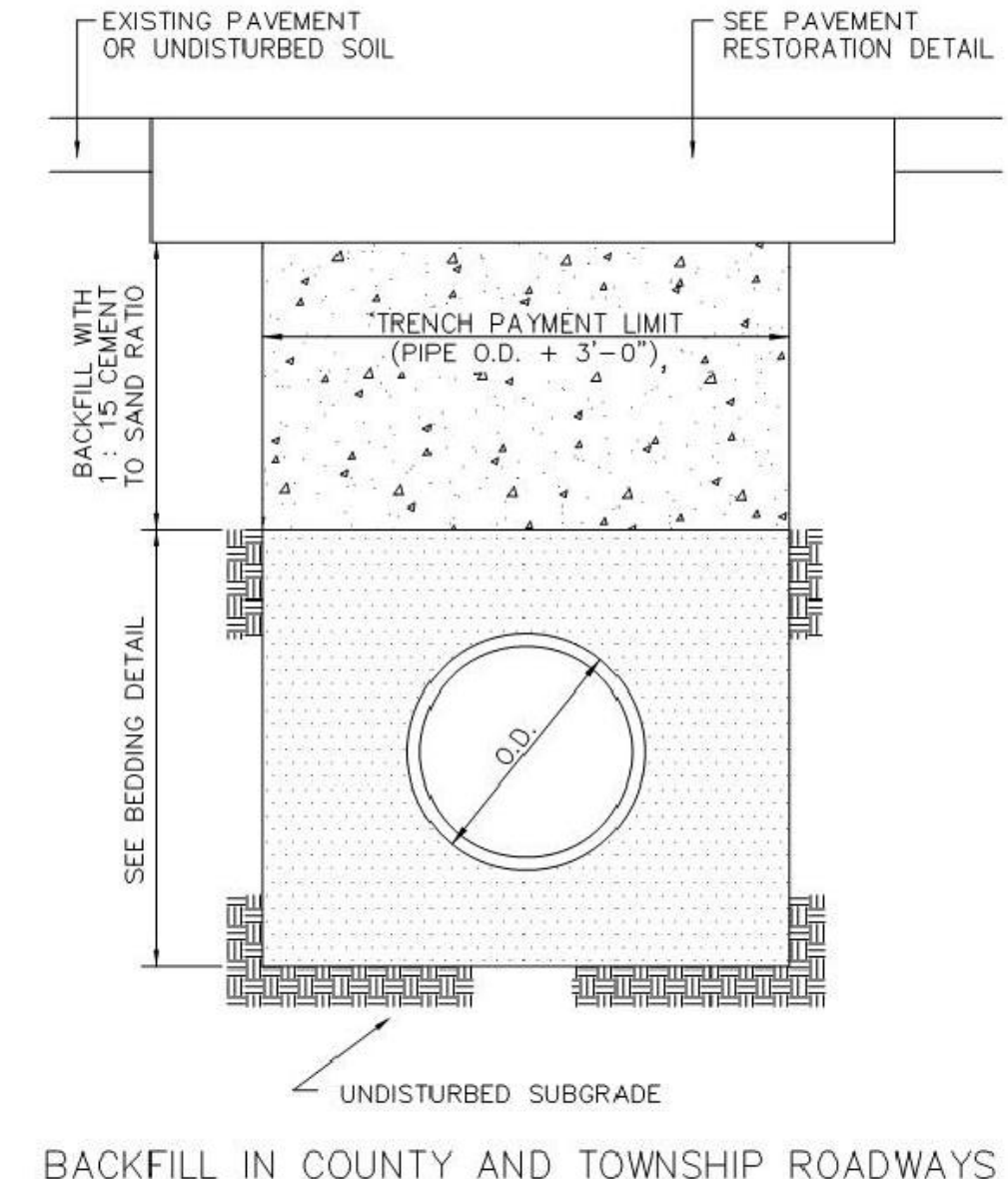
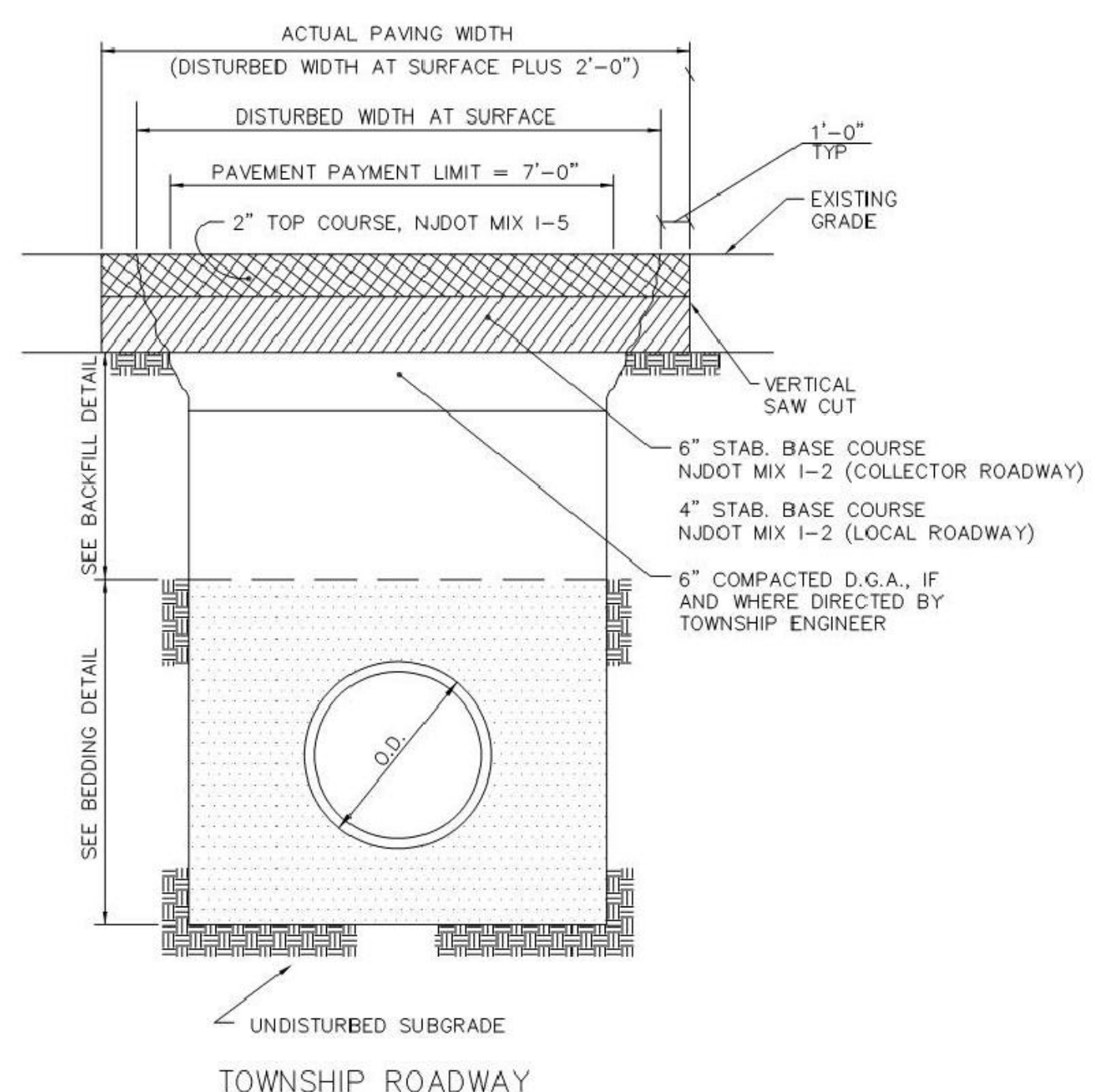
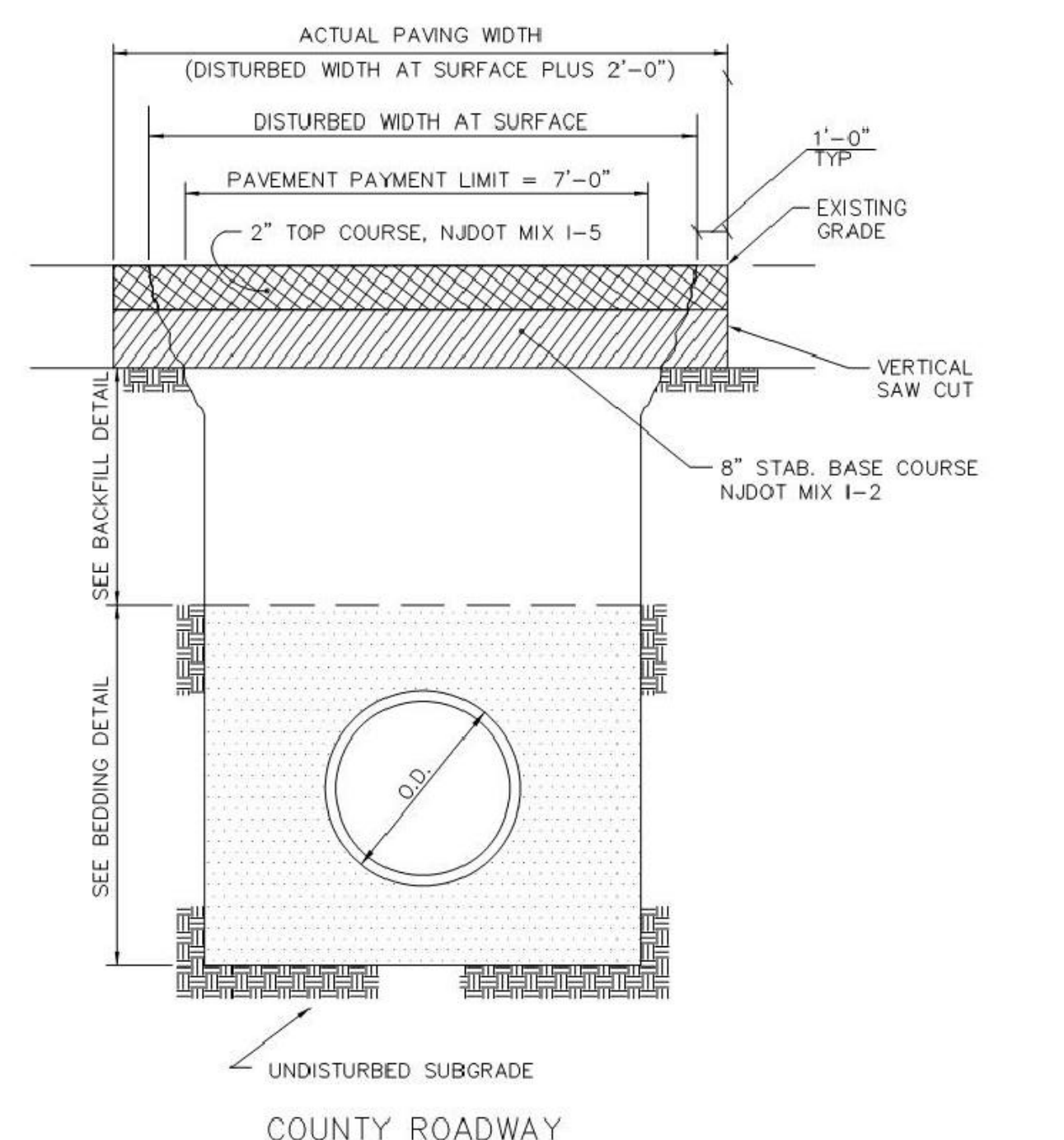


DEEP HOUSE CONNECTIONS
NO SCALE



CONCRETE CRADLE DETAIL
NO SCALE

- NOTE:
- WHERE GRAVITY SEWERS CROSS UNDER OR OVER AN EXISTING SANITARY SEWER, STORM DRAIN OR OTHER UTILITY AND WHERE THE MINIMUM DISTANCE BETWEEN THEM IS 6 INCHES OR LESS, THE ENGINEER MAY ELECT TO CONSTRUCT A CONCRETE CRADLE TO THE SPRINGLINE OF THE UPPER PIPE. THE WIDTH OF THE CRADLE SHALL BE EQUAL TO THE ACTUAL EXCAVATED WIDTH OF THE TRENCH (6 INCHES BELOW THE LOWER PIPE) AND VARIES TO THE DISTURBED TRENCH WIDTH AT THE SPRINGLINE OF THE UPPER PIPE. THE LENGTH VARIES AND IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



PIPE BACKFILL DETAIL
NO SCALE

- NOTE:
- VERTICAL SAW CUTS TO BE MADE PRIOR TO PLACEMENT OF THAT SPECIFIC PAVEMENT COURSE. ALL EDGES SHALL BE HOT TACK COATED. ALL SEAMS OR JOINTS IN ROADWAY SHALL BE SEALED WITH HOT ASPHALT SEALING MATERIAL AS APPROVED BY THE TOWNSHIP ENGINEER. ALL JOINTS AND SEAMS SHALL BE SEALED PRIOR TO ACCEPTANCE BY THE TOWNSHIP.
- PAVEMENT RESTORATION DETAILS**
NO SCALE



West Windsor Township
Department of Community Development
Engineering Division
West Windsor Township Municipal Building
271 Clarksville Road
P.O. Box 38
Princeton Junction, N.J. 08550
Phone (609) 799 - 9396
Fax (609) 275 - 4850

STANDARD DETAILS
PREPARED FOR
SANITARY SEWER PROJECTS

SITUATED IN
WEST WINDSOR TOWNSHIP MERCER COUNTY NEW JERSEY

1
2

THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

NO.	DATE	REVISION
1	12/15/22	REV PER 2ND ROUND TRC COMMENTS
2	12/15/22	REV PER TRC COMMENTS

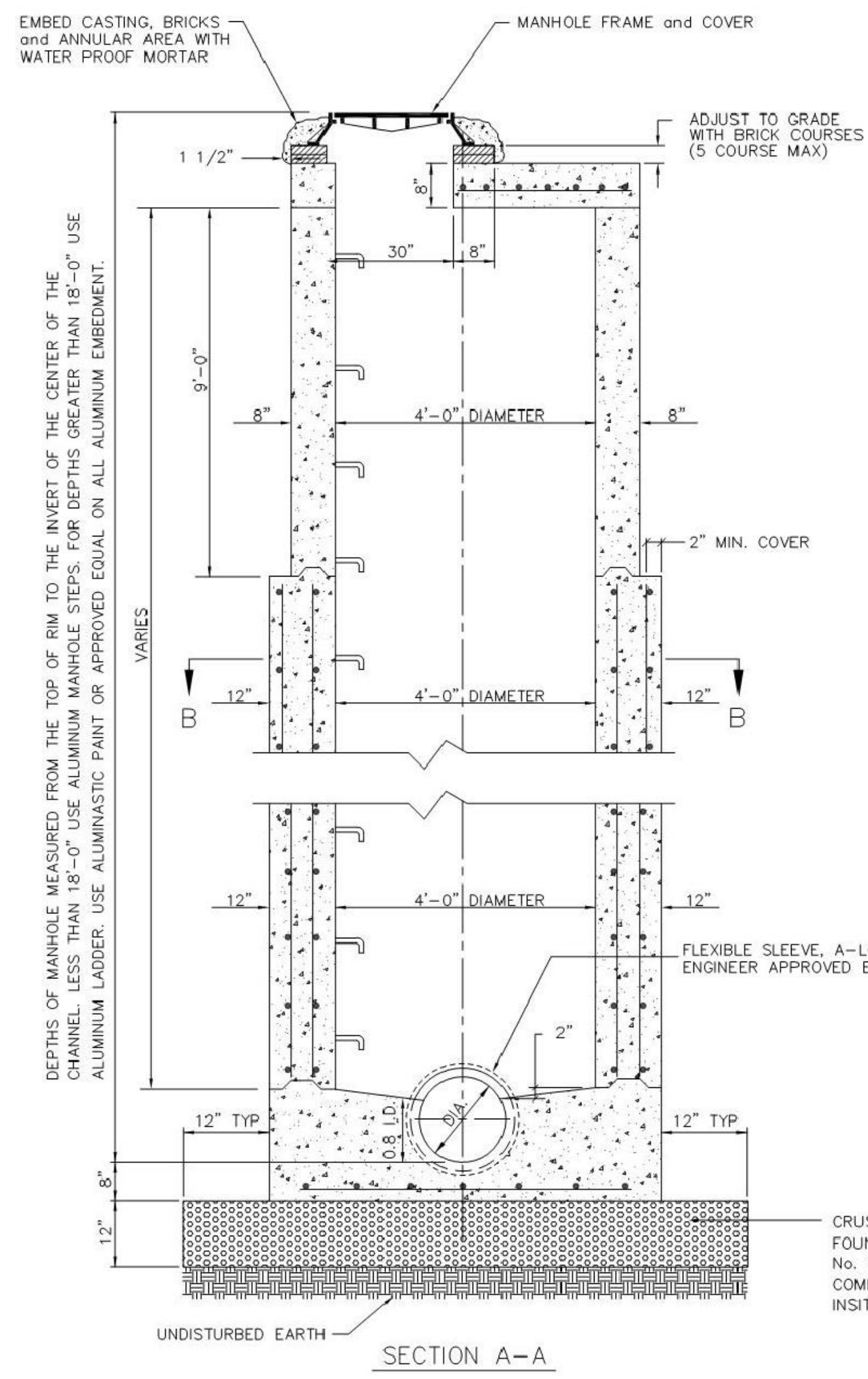
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CHNO: V.W.
DATE: 12/15/22
DRAWN BY: JAM



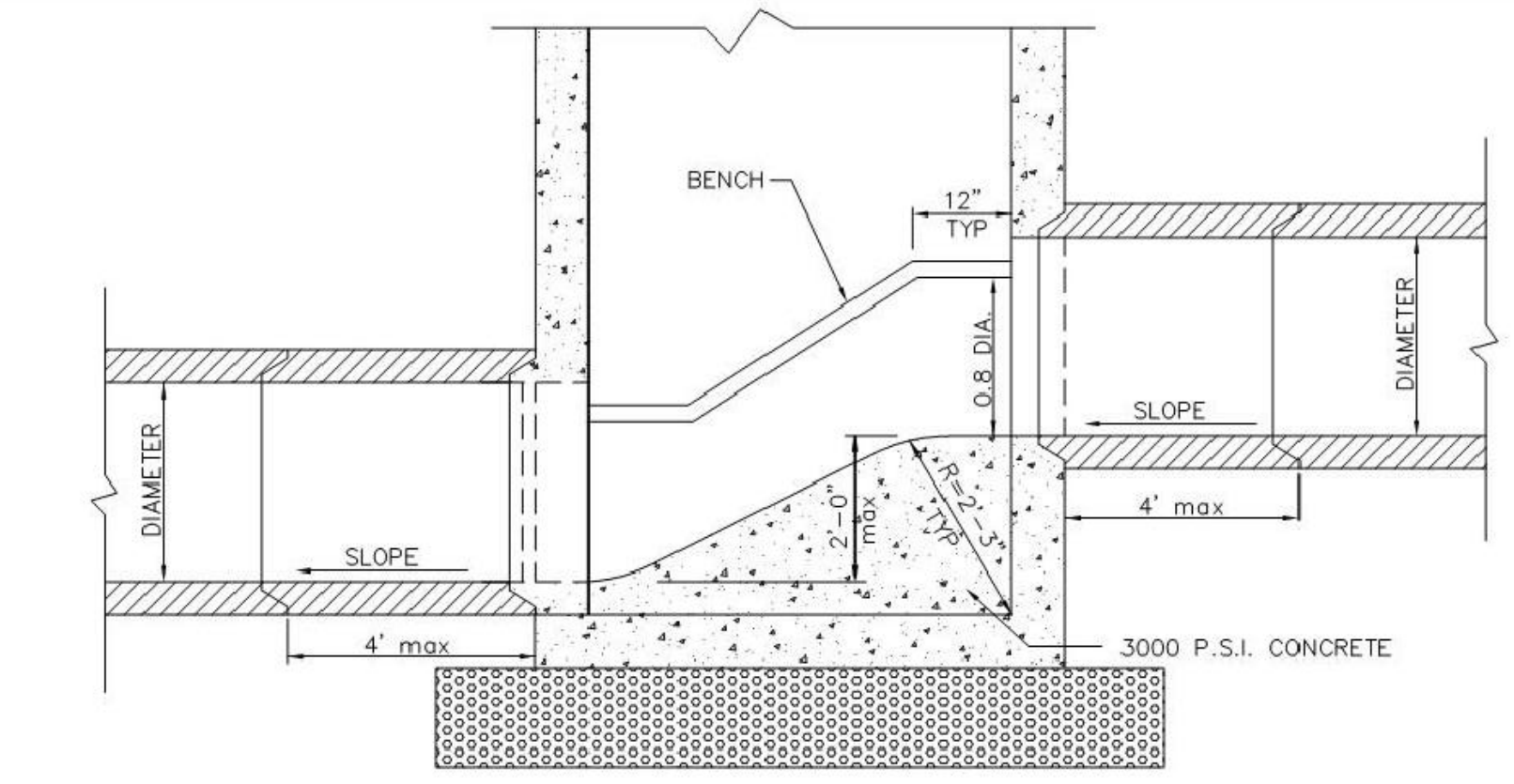
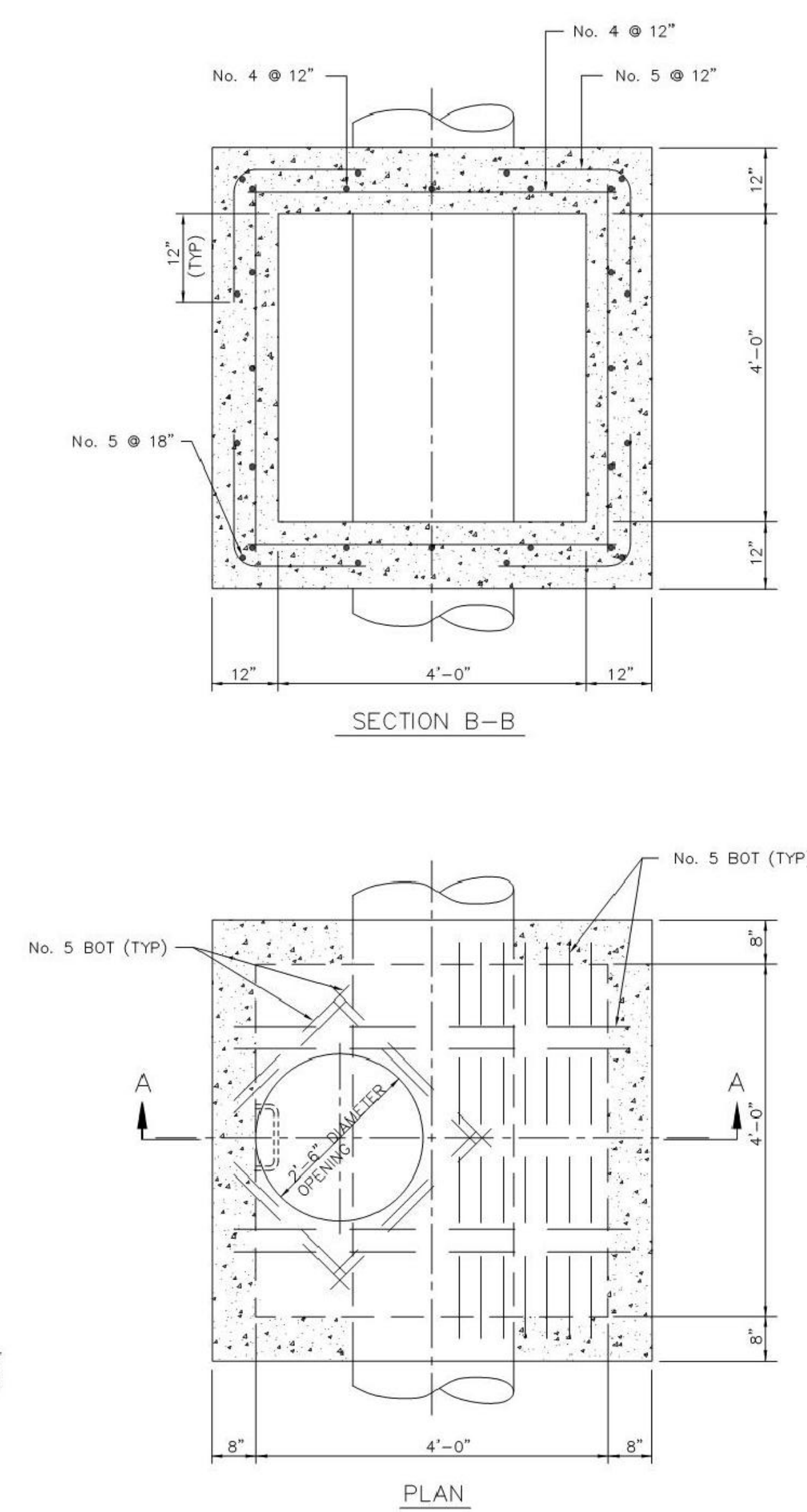
Bowman Consulting Group, Ltd.
Professional Engineer
James M. Waddell, P.E.
1000 West Windsor Blvd, Suite 200
West Windsor, NJ 08862
Phone: 732-666-5000
Fax: 732-666-5001
No. of Engineers: 2
No. of Technicians: 2

AMENDED FINAL SITE PLAN FOR PHASE 1: HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
WW SANITARY SEWER DETAILS
SHEET No.
15
OF
A
BLOCK 6, LOTS 12, 01 and 12 011
TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY

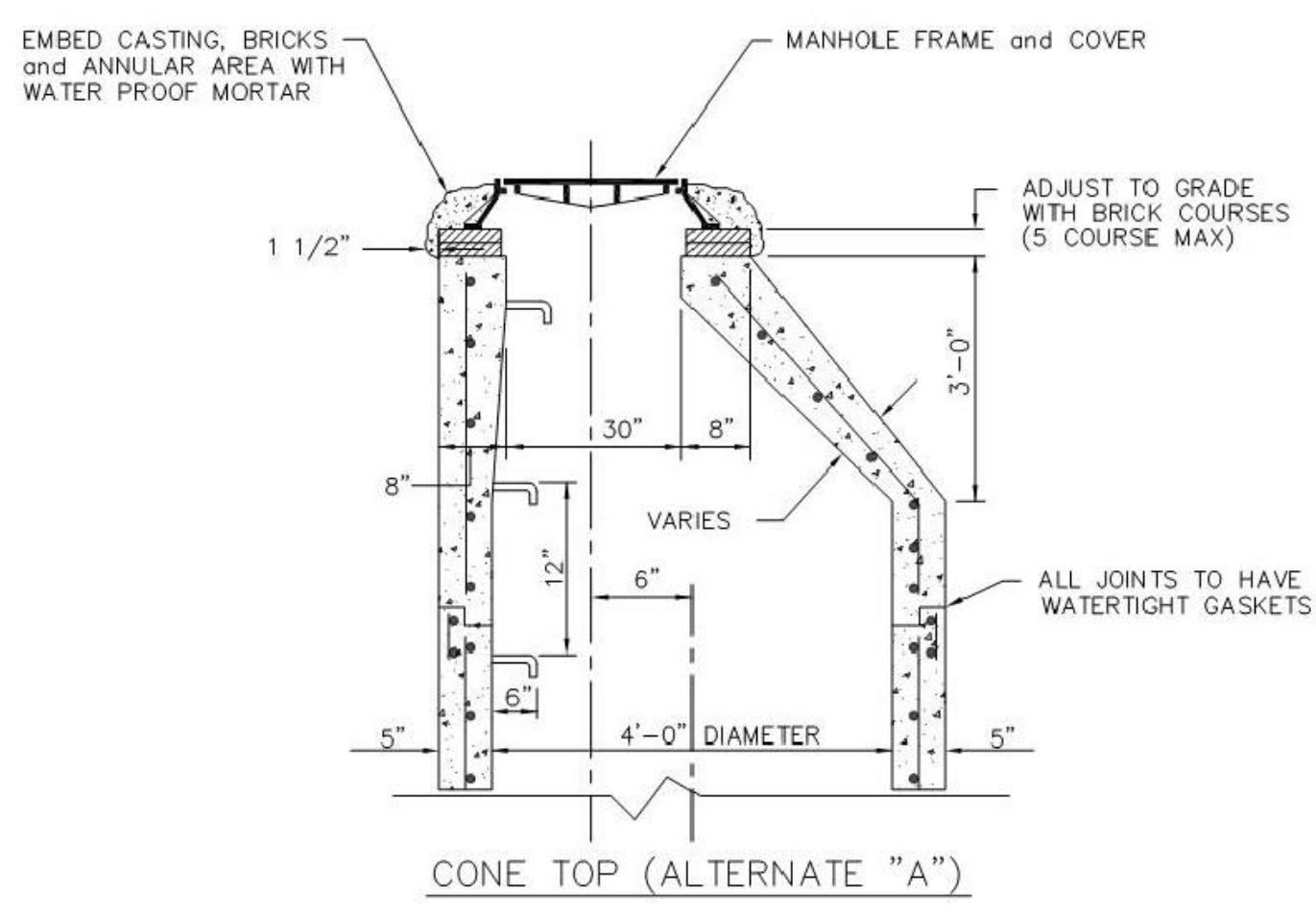
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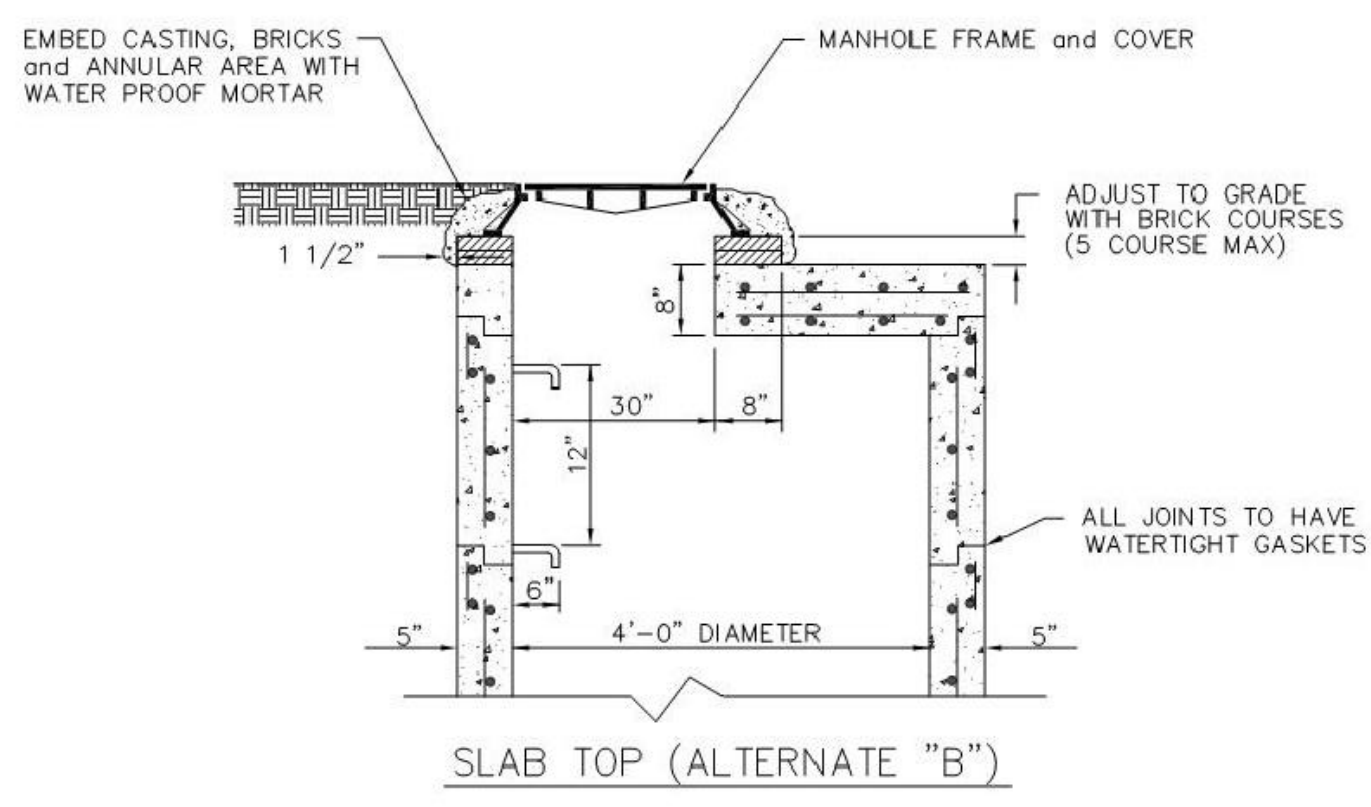
CAST IN PLACE MANHOLE
NO SCALE



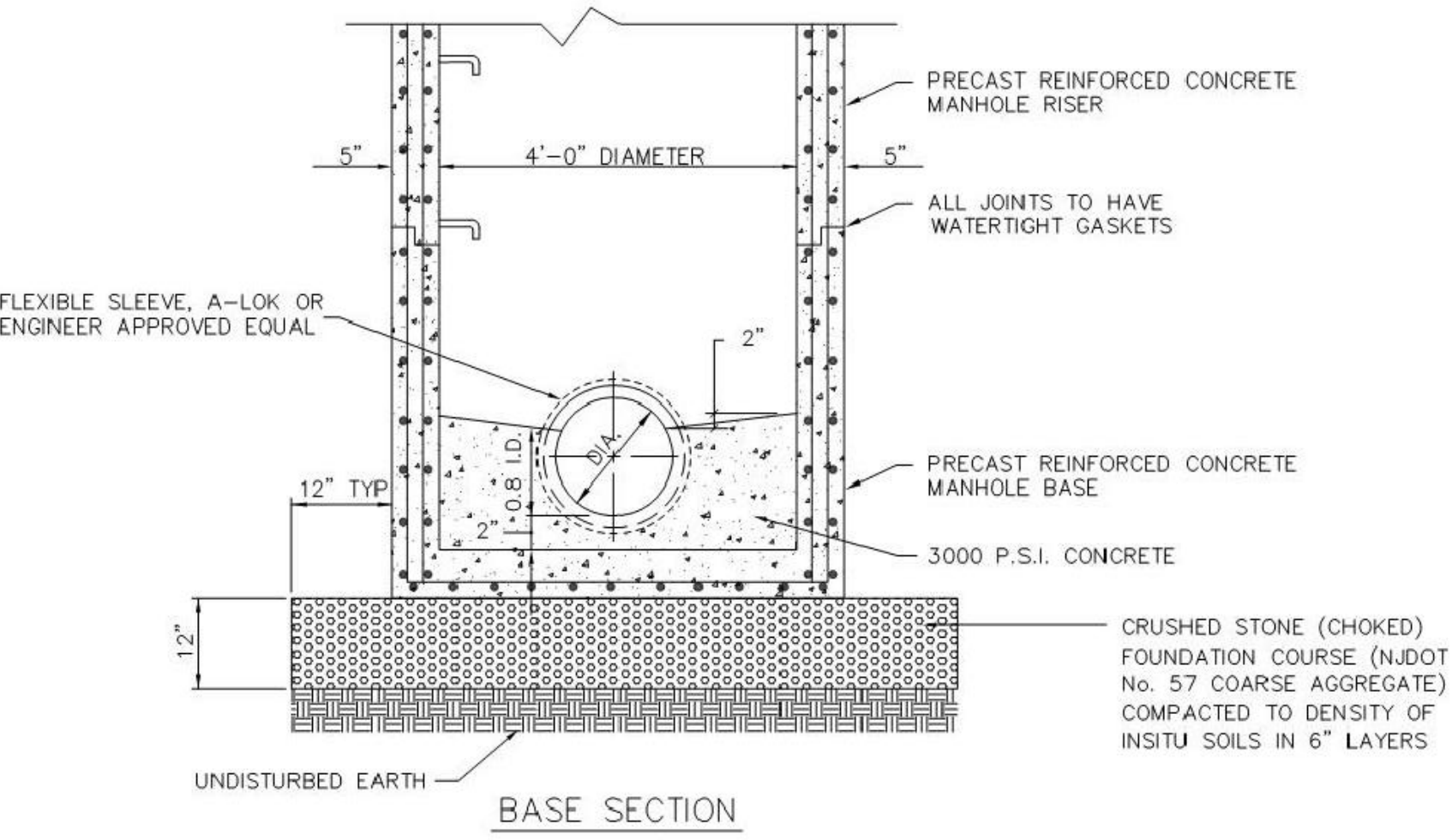
MANHOLE CHUTE
NO SCALE



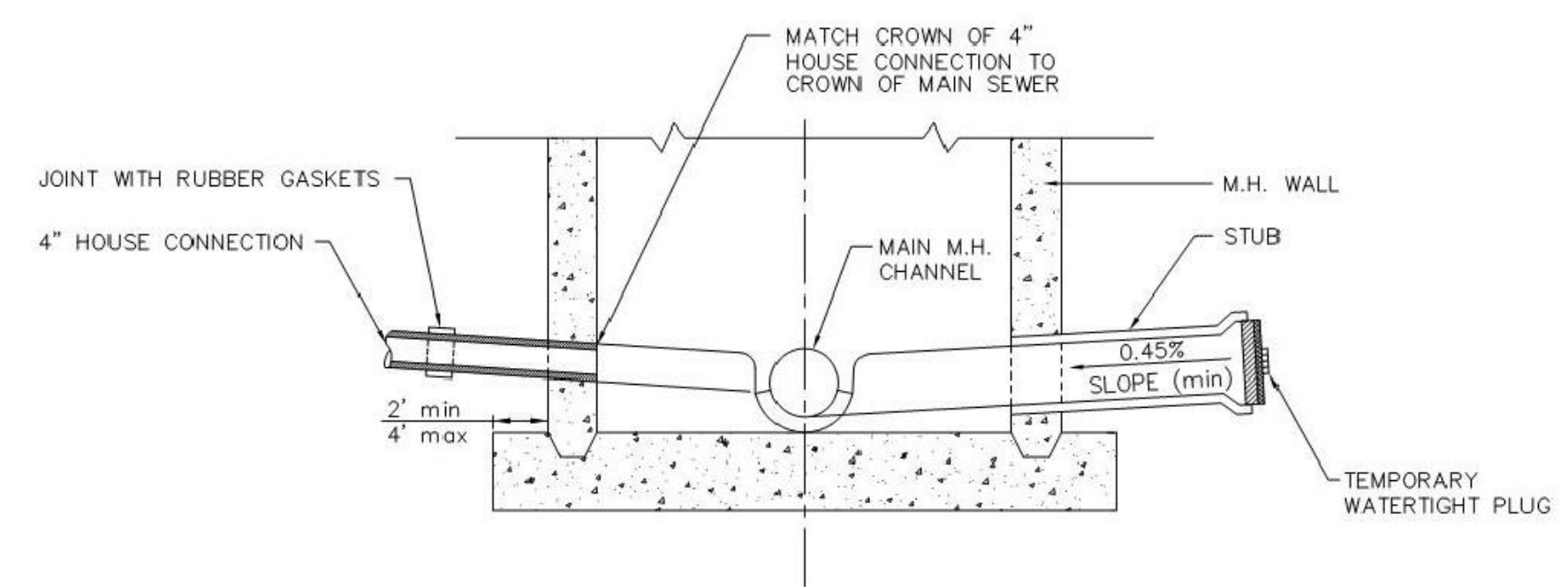
CONE TOP (ALTERNATE "A")



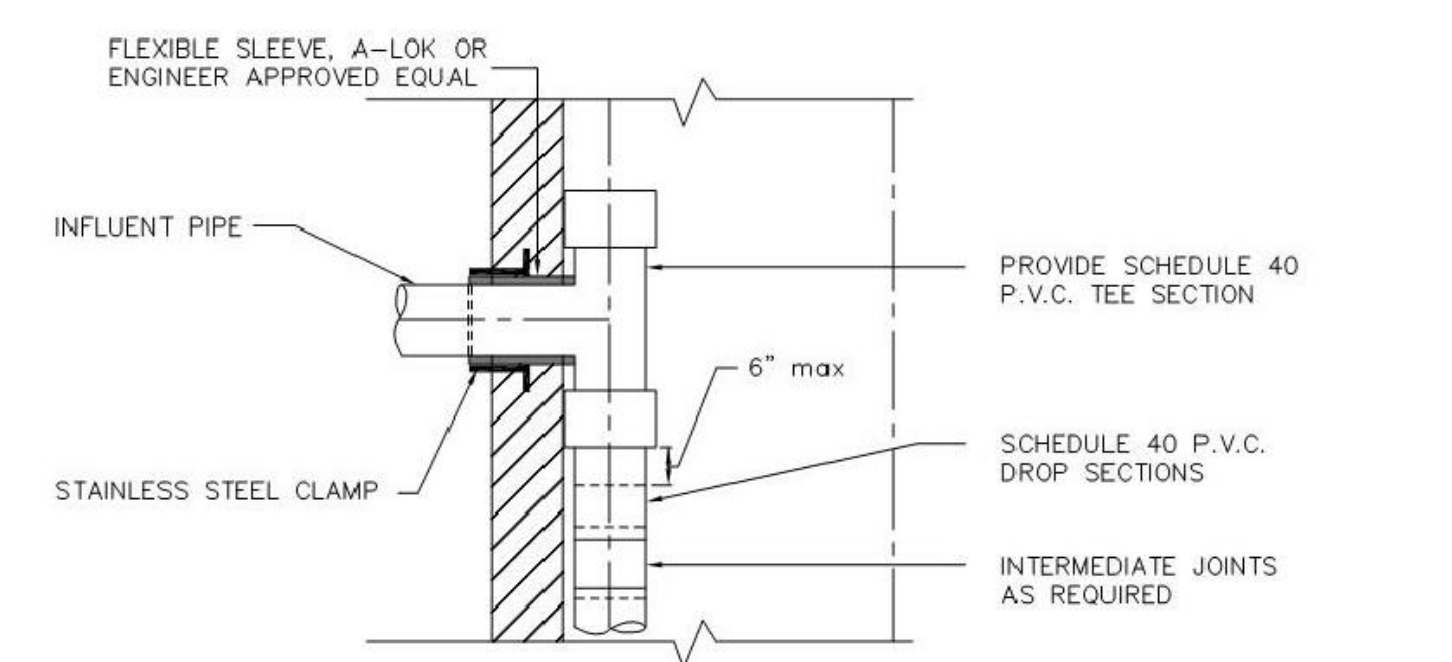
SLAB TOP (ALTERNATE "B")



PRECAST CONCRETE MANHOLE
NO SCALE

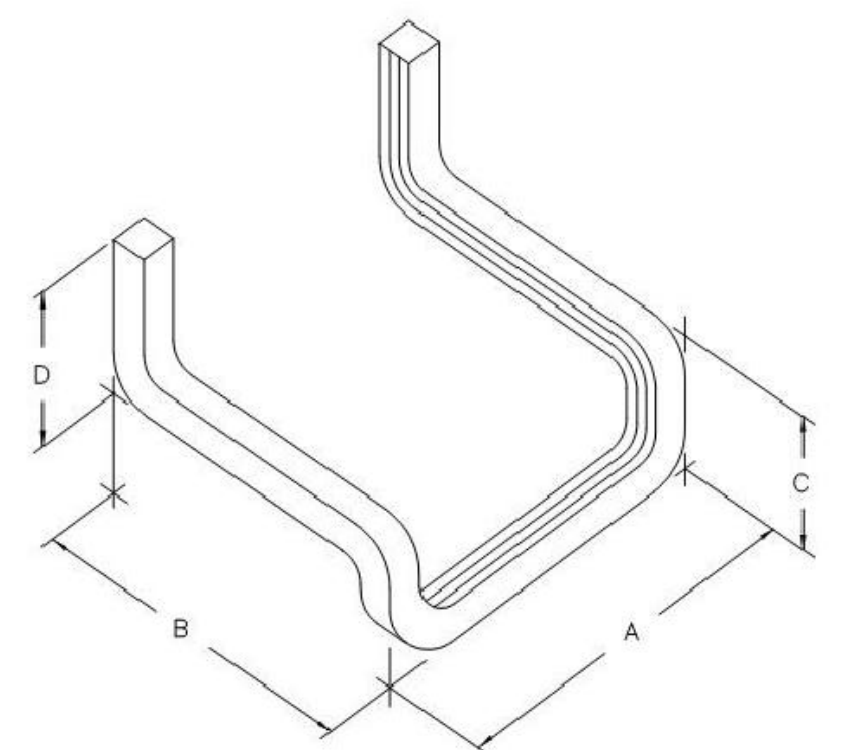


MANHOLE WALL WITH STUB and HOUSE CONNECTION
NO SCALE



TYPICAL DROP CONNECTION
NO SCALE

- NOTES :**
- NOMINAL DIAMETER OF P.V.C. DROP SECTION TO BE EQUAL TO INFLUENT PIPE FOR WHICH DROP SECTION IS PROVIDED.
 - FIRST STAINLESS STEEL STRAP TO BE PLACED WITHIN A MAXIMUM DISTANCE OF 6-INCHES BELOW THE INLET PIPE INVERT. SECOND STAINLESS STEEL STRAP TO BE PLACED WITHIN A MAXIMUM DISTANCE OF 6-INCHES ABOVE THE FIRST INTERMEDIATE JOINT. THE UPPER P.V.C. DROP PIPE SECTION TO BE INSTALLED IN SUCH A MANNER AS TO ALLOW FOR FUTURE REMOVAL WITHOUT HAVING TO REMOVE THE REMAINING SECTIONS. REMAINING STAINLESS STEEL STRAPS A MAXIMUM DISTANCE OF 3'-0" ON CENTER AND WITHIN 6-INCHES BELOW ANY REQUIRED INTERMEDIATE JOINTS.
 - ALL JOINTS ON THE DROP SECTION TO BE OF THE RUBBER GASKET OR FRICTION TYPE (SOLVENT CEMENT JOINTS PROHIBITED) TO FACILITATE EASE OF REMOVAL AND/OR REPLACEMENT.
 - DROP MANHOLE SHALL BE INSTALLED AT ANY MANHOLE LOCATION WHERE THE DIFFERENCE IN INVERT ELEVATION BETWEEN ANY INLET AND THE OUTLET IS GREATER THAN 2'-0".

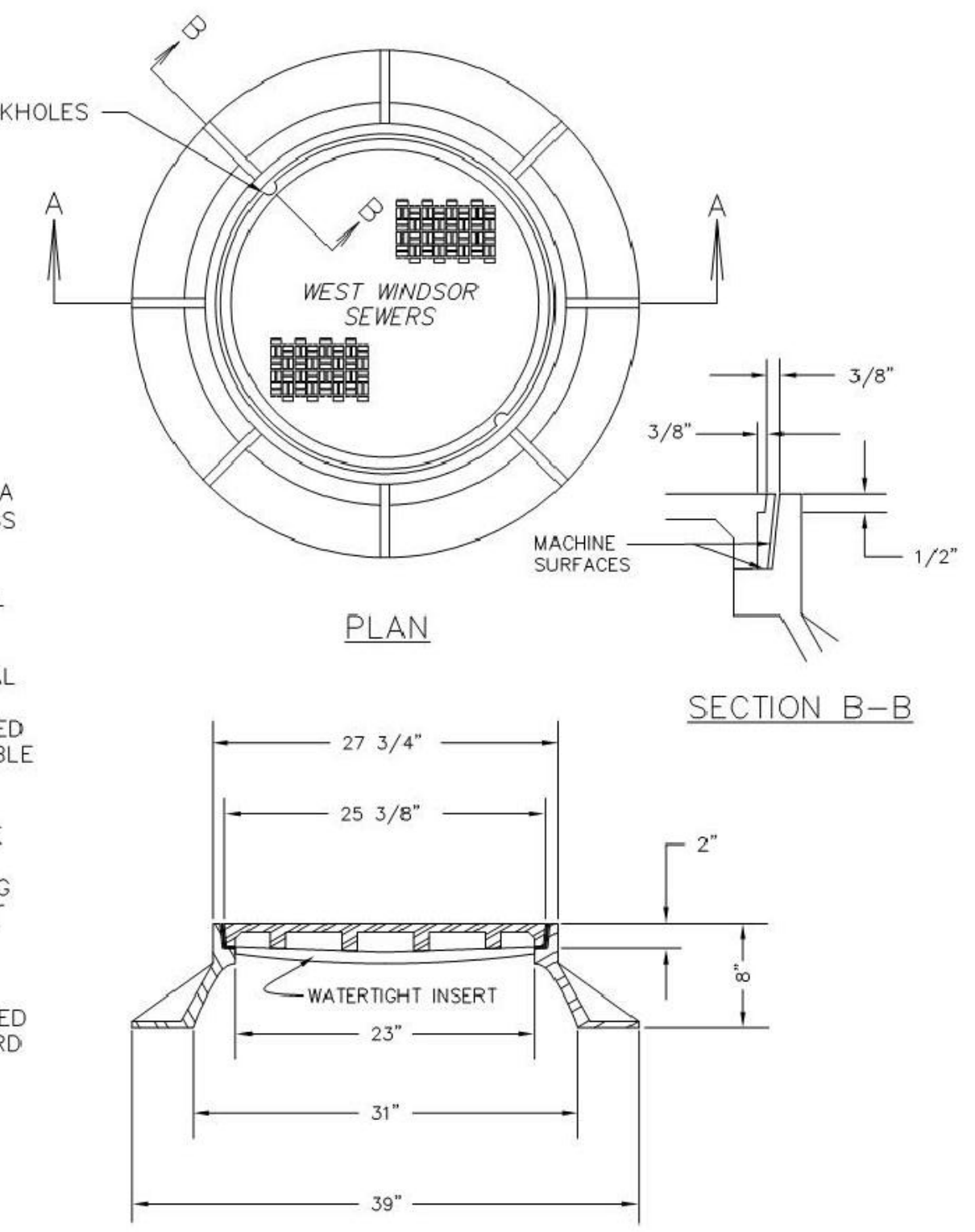


APPLICATION	DIMENSION (IN.)			
	A	B	C	D
BLOCK M.H.	13 3/4	9 5/16	3 3/4	2
CAST IN PLACE WALLS	17 3/4	13 13/16	3 3/4	2
PRECAST M.H.	13 3/4	11	3 3/4	-

* MIN. 12" AND MUST MEET THE REQUIREMENTS OF ASTM C-478 SPECIFICATIONS.
NOTE : ALL EMBEDDED PORTIONS OF ALUMINUM SHALL BE COATED WITH ALUMINASTIC PAINT OR APPROVED EQUAL.

ALUMINUM MANHOLE STEP
NO SCALE

- NOTES:**
- ALL DIMENSIONS ARE TO BE HELD TO A TOLERANCE OF 1/32" ON ALL CASTINGS TO PERMIT INTERCHANGING OF PARTS
 - CAMPBELL FOUNDRY #1202B OR EQUAL MIN. WT. 425# WITH FLOW SEAL LID
 - SUBMIT SHOP DRAWINGS FOR APPROVAL
 - MANHOLE NUMBERS SHALL BE INDICATED ON CASTINGS, IN A MANNER ACCEPTABLE TO THE AUTHORITY'S ENGINEER.
 - FRAME SHALL BE SET FLUSH WITH THE STABILIZED BASE COURSE PAVING SURFACE ELEVATION. USE RESURFACING MANHOLE EXTENSION RINGS TO ADJUST TO TOP COURSE PAVING SURFACE ELEVATION.
 - A WATERTIGHT INSERT SHALL BE PLACED BELOW MANHOLE COVER, SEWER GUARD OR APPROVED EQUAL TO BE USED.



MANHOLE FRAME and COVER
NO SCALE



WEST WINDSOR TOWNSHIP
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Engineering Division
West Windsor Township Municipal Building
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Princeton Junction, N.J. 08550
Phone (609) 799 - 9396
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STANDARD DETAILS
PREPARED FOR
SANITARY SEWER PROJECTS

SITUATED IN
WEST WINDSOR TOWNSHIP MERCER COUNTY NEW JERSEY

2
2

THESE PLANS ARE NOT TO BE USED FOR BID OR CONSTRUCTION

AMENDED FINAL SITE PLAN FOR PHASE 1: HOTEL
AMENDED PRELIMINARY SITE PLAN FOR PHASE 3 - RESTAURANT
WW SANITARY SEWER DETAILS
TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY

Block 8, Lots 12, 01 and 12, 011

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James M. Windsor, Professional Engineer, No. 24GE049450

PROJ: 08823-02-001
CHD: V.W

NO.	DATE	REVISION
1	11/15/22	REV PER TRC COMMENTS
2		REV PER TRC COMMENTS
3		
4		
5		
6		
7		
8		
9		
10		

SHEET No. **15** OF **B**