

PROPERTY OWNERS WITHIN 200 FT.

BOROUGH OF SAYREVILLE

BLOCK LOT	16	16	Borough of Sayreville 167 Main Street Sayreville, NJ 08872
BLOCK LOT	56.01	1	Borough of Sayreville 167 Main Street Sayreville, NJ 08872
BLOCK LOT	57.01	1	Lead Industries, LLC 28 Brick Yard Road Crabtree, NJ 08512
BLOCK LOT	57.01	1.01	Heracles, Inc. c/o Inco, Inc. P.O. Box 55348 Lexington, KY 40555
BLOCK LOT	58	1.01	Gilena Enterprises, Inc. 251 Jerome Mill Road Sayreville, NJ 08872
BLOCK LOT	58	1.02	DZZ Papers, Inc. 45 Grove Street South River, NJ 08882
BLOCK LOT	58	5	John C. Pohl, Sr. 41 Oaks Drive Hillsborough, NJ 08844
BLOCK LOT	58	1.01	DuPont Specialty Products USA, LLC P.O. Box 2899 Wilmington, DE 19805
BLOCK LOT	58.01	1	Daniel Kicomonis 17 Emoryway Street Sayreville, NJ 08872
ACCESS EASEMENT			AS Red Oak, LLC 832 Red Oak Lane Sayreville, NJ 08872
EASEMENT			New Jersey Natural Gas Company 1415 Wyndoff Road Wall Township, NJ 07727
RIGHT OF WAY	58	58	DuPont Specialty Products USA, LLC P.O. Box 2899 Wilmington, DE 19805
RIGHT OF WAY	58	58	Heracles, Inc. c/o Inco, Inc. P.O. Box 55348 Lexington, KY 40555
RIGHT OF WAY	58	58	Middlesex County Utilities Authority P.O. Box 129 Sayreville, NJ 08872

SAYREVILLE UTILITIES LIST (2022)

NJDEP 30 West State Street P.O. Box 42 Trenton, NJ 08625	PREAG 10 Howe Lane New Brunswick, NJ 08902 732-721-7000
Middlesex County Planning Board 75 Sayreville Street—5th Floor New Brunswick, NJ 08902 732-745-3812	JCP&L c/o 4th Energy 300 Madison Avenue P.O. Box 1811 Morristown, NJ 07962-1911 4th: Corporate Properties 732-723-8669 or 1-800-682-3115
NJDOT David Eschinger Transportation Center 1035 Parkway Avenue P.O. Box 902 Trenton, NJ 08625	Borough of Sayreville Water & Sewer 107 Main Street Sayreville, NJ 732-305-7000
NJ Natural Gas Company John Wyndoff Road P.O. Box 1454 Wall, NJ 07719	Middlesex County Utilities Authority (MUCUA) P.O. Box 169 2571 Main Street Sayreville, NJ 08872-0086
Callvelion 275 Central Avenue CN805 Piscataway, NJ 08854-8905 Attn: Construction Department 732-563-9009	Transcontinental Gas Pipeline (TGP) 53 Cologans Road East Brunswick, NJ 08816-1638 732-246-4313
Consolidated Rail Corporation 1717 Arch Street or 2001 Market Street Philadelphia, PA 19102	Houston, TX 77221
Verizon New Jersey 7000 Halsey Road South Plainfield, NJ 07080 908-753-0801	ON 540 Broad Street - 20th Floor Newark, NJ 07102

BOROUGH OF SOUTH RIVER
OFFICE OF PLANNING AND ZONING
MIDDLESEX COUNTY
48 WASHINGTON STREET
SOUTH RIVER, NJ 08854-1247

March 5, 2024

Tracy Feary
Colliers Engineering & Design
Holmdel, New Jersey

Re: Block 58 Lots 2.01, 9
Sayreville Borough, NJ

Dear Ms. Feary,

After reviewing the Middlesex County's property records site, the referenced block and lots in Sayreville Borough does not touch upon any property lines belonging to the Borough of South River.

Thank you

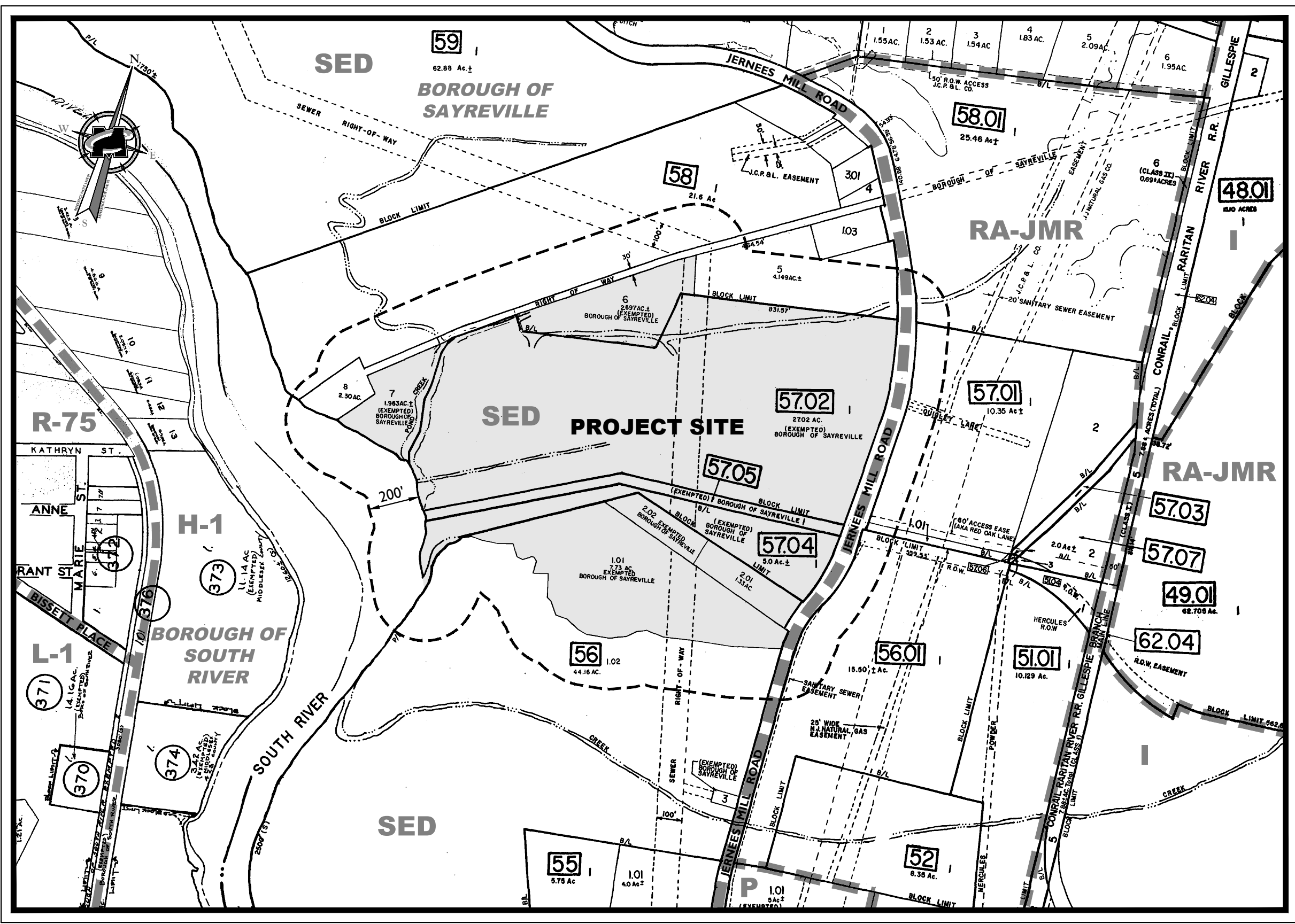
William Lonsky
Borough Administrator
w.lonsky@sayreville.org
732-337-1999 Ext. 319

732-337-1999 Ext. 316 | 732-337-0183 | www.sayreville.org

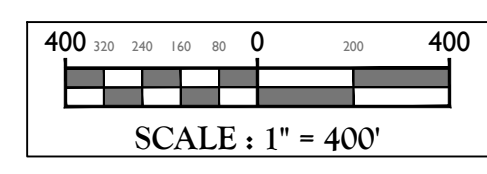
INDEX OF SHEETS

SHT. No.	DESCRIPTION	LATEST REVISION
1	COVER SHEET	6/28/2024
2	EXISTING CONDITIONS/DEMOLITION PLAN	6/28/2024
3	OVERALL SITE PLAN	6/28/2024
4-7	DIMENSION PLANS	6/28/2024
8-11	UTILITY PLANS	6/28/2024
12-15	GRADING PLANS	6/28/2024
16-19	SOIL EROSION AND SEDIMENT CONTROL PLANS	6/28/2024
20-21	SOIL EROSION & SEDIMENT CONTROL DETAILS	6/28/2024
22	SOIL MANAGEMENT AND PREPARATION PLAN	6/28/2024
23	LANDSCAPE PLAN	6/28/2024
24	LANDSCAPE DETAILS	6/28/2024
25-26	LIGHTING PLANS AND DETAILS	6/28/2024
27-28	PROFILES	6/28/2024
29-32	CONSTRUCTION DETAILS	6/28/2024
33-34	TREE PRESERVATION PLANS	6/28/2024
35	TRUCK CIRCULATION PLAN	6/28/2024
36	REFUSE VEHICLE CIRCULATION PLAN	6/28/2024
37	EMERGENCY VEHICLE CIRCULATION PLAN	6/28/2024

PRELIMINARY AND FINAL MAJOR SITE PLAN
FOR
JERNEE MILL INDUSTRIAL
BLOCK 58, LOTS 2.01 & 9
BOROUGH OF SAYREVILLE
MIDDLESEX COUNTY
NEW JERSEY



KEY & ZONING MAP



GENERAL INFORMATION

GENERAL NOTES:

- THE SUBJECT PROPERTY IS KNOWN AS BLOCK 58 LOTS 2.01 AND 9 AS SHOWN ON SHEETS 24 & 25 OF THE OFFICIAL TAX MAP OF THE BOROUGH OF SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY. BLOCK 58, LOT 2.01 IS FORMERLY KNOWN AS BLOCK 58, LOT 2.01. BLOCK 58, LOT 9 IS FORMERLY KNOWN AS BLOCK 58, LOTS 1.01 AND 2.02. BLOCK 57, LOT 1, BLOCK 57, LOT 1, BLOCK 57, LOT 1, AND BLOCK 57, LOTS 1 AND 2.
- THE PROPERTY IS LOCATED IN THE ECO-INDUSTRIAL REDEVELOPMENT AREA (IEA) AND CONTAINS A TOTAL TRACT AREA 4.4848 ACRES (2.024 889 SF).
- THE APPLICANT IS PROPOSING TO CONSTRUCT UP TO TWO (2) COLD STORAGE WAREHOUSE BUILDINGS WITH ASSEMBLED TRAILER STORAGE AREAS AND ASSOCIATED SITE IMPROVEMENTS. THIS SET OF PLANS HAS BEEN PREPARED FOR BOROUGH SITE PLAN APPROVAL.
- PROPERTY OWNERS: BLOCK 58, LOT 1, BOROUGH OF SAYREVILLE, 107 MAIN STREET, SAYREVILLE, NJ 08872. BLOCK 58, LOT 2.01, JERNEE MILL ASSOCIATES, LLC, 180 ROUTE 18, SUITE 205, EAST BRUNSWICK, NJ 08815. APPLICANT: C/O MD JERNEE MILL ROAD, LLC, 31 SPRINGBROOK ROAD, MORRISTOWN, NJ 07960.
- THE MAJORITY OF THE SITE (BLOCK 58, LOT 9) IS PART OF THE FORMER SAYREVILLE LANDFILL AND IS BOUNDED ON THE EAST BY JERNEE MILL ROAD AND SOUTH RIVER ON THE WEST.
- THE SITE WAS FORMERLY OPERATED AS A SOLID WASTE DISPOSAL FACILITY FROM 1971 TO 1977 BY THE BOROUGH OF SAYREVILLE. IN 1988 THE USER INCLUDED THE SITE ON THE FEDERAL SUPERFUND NATIONAL PRIORITY LIST (NPL) BASED UPON THE PRESENCE OF HAZARDOUS WASTE SITE. ERM & ASSOCIATES, THE SITE IS UNDER THE OVERSIGHT OF ADEP (NJDEP) SUPERFUND PREFERRED (S-P) 2006. REMEDIAL ACTION ACTIVITIES WERE COMPLETED IN 1999 WITH THE INSTALLATION OF A COMPOSITE CAP SYSTEM AND PASSIVE VENTILATION SYSTEM. THE SITE IS ENTIRELY COVERED BY A GLASS-FIBER REINFORCED POLYESTER AREA CURE FOR GROUNDWATER AND LANDFILL GAS MONITORING FOR REMEDIATION HAS BEEN ONGOING SINCE 2005.
- THE APPLICANT IS OBTAINING A PERMIT TO MODIFY THE LANDFILL CLOSURE AND POST-CLOSURE CARE PLAN FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE TO COMPLY WITH THE CONDITIONS OF THE PERMIT.
- BULK REQUIREMENTS:

BULK STANDARD	REQUIRED	PROPOSED
MINIMUM LOT SIZE (AC)	5 AC	± 46.48 AC
FRONT YARD SETBACK - PRINCIPAL & ACCESSORY BUILDINGS (FT)	50 FT	86.5 FT
SIDE YARD SETBACK - PRINCIPAL & ACCESSORY BUILDINGS (FT)	50 FT	201.50 FT
REAR YARD SETBACK - PRINCIPAL & ACCESSORY BUILDINGS (FT)	50 FT	284.5 FT
HEIGHT - PRINCIPAL BUILDING (FT)	35 FT	75 FT
HEIGHT - ACCESSORY BUILDING & OUTDOOR MATERIAL STORAGE (FT)	40 FT (STORAGE 35 FT)	N/A
MAX. IMPERVIOUS LOT COVERAGE (%)	81 %	36.64 %

- PARKING
REQUIRED: COLD STORAGE WAREHOUSE (INCLUDES OF ANY AUXILIARY OFFICE FLOOR AREA) WAREHOUSE USE: 1 SPACE/EMPLOYEE + 10% OFFICE USE: 1 SPACE/500 SF OF SPA.
BUILDING 1: 7.00 SF OFFICE USE + 20 SPACES REQUIRED
205.38 SF WAREHOUSE USE (MAX. 46 EMPLOYEES) + 462 SPACES REQUIRED (MAX. EMPLOYEES + 10%)
TOTAL: 48 SPACES REQUIRED
PROVIDED: 48 SPACES
- BUILDING 2: 7.88 SF OFFICE USE + 25 SPACES REQUIRED
62.69 SF WAREHOUSE USE (MAX. 33 EMPLOYEES) + 33 SPACES REQUIRED (MAX. EMPLOYEES + 10%)
TOTAL: 48 SPACES REQUIRED
PROVIDED: 48 SPACES
- REQUIRED ACCESSIBLE PARKING SPACES
BUILDING 1 (10,100 SQUARE FEET) + ACCESSIBLE SPACES REQUIRED
PROVIDED: 4 ACCESSIBLE SPACES
BUILDING 2 (5,135 SQUARE FEET) + 3 SPACES REQUIRED
PROVIDED: 4 ACCESSIBLE SPACES
REQUIRED EV PARKING SPACES
BUILDING 1 (10,100 SQUARE FEET) + 3 EV SPACES REQUIRED
PROVIDED: 4 EV SPACES
BUILDING 2 (5,135 SQUARE FEET) + 2 EV SPACES REQUIRED
PROVIDED: 4 EV SPACES
- THE APPLICANT IS REQUESTING THE FOLLOWING CHECKLIST WARNERS:
PRELIMINARY SITE PLAN CHECKLIST:
ITEM #1: A WAREHOUSE IS REQUESTED AS EIGHT (8) PLAN SHEETS ARE AT SCALES OTHER THAN "1" = 30'.
ITEM #2: A WAREHOUSE IS REQUESTED AS 40' x 40' PLANS ARE PROVIDED.
ITEM #3: A WAREHOUSE IS REQUESTED AS APPLICANT OWNED AND ZONING INFORMATION ONLY APPEAR ON THE COVER SHEET.
ITEM #4: A TEMPORARY WAREHOUSE IS BEING REQUESTED. WILL BE PROVIDED AS A CONDITION OF APPROVAL.
ITEM #5: A WAREHOUSE IS BEING REQUESTED AS CONSTRUCTION STAGING FOR THE PROPOSED DEVELOPMENT LOCATED ON AN EXISTING LANDFILL. WILL BE PROVIDED IN ACCORDANCE WITH THE PROPOSED LANDFILL CLOSURE AND POST-CLOSURE CARE PLAN AS SUBMITTED TO NJDEP AND CURRENTLY PENDING APPROVAL.
ITEM #6: A TEMPORARY WAREHOUSE IS BEING REQUESTED. DETERMINATION OF LOCATION AND EXTENT OF REQUIRED EASEMENTS.
ITEM #7: A TEMPORARY WAREHOUSE IS BEING REQUESTED. IT WILL BE PROVIDED AS A CONDITION OF AFFIRMATIVE ACTION BY THE BOARD.
FINAL SITE PLAN CHECKLIST:
ITEM #1: A WAREHOUSE IS REQUESTED AS EIGHT (8) PLAN SHEETS ARE AT SCALES OTHER THAN "1" = 30'.
ITEM #2: A WAREHOUSE IS REQUESTED AS 40' x 40' PLANS ARE PROVIDED.
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ITEM #143: A TEMPORARY WAREHOUSE IS BEING REQUESTED AS EIGHT (8) PLAN SHEETS ARE AT SCALES OTHER

Table with columns: REV, DATE, DRAWN BY, DESCRIPTION. Contains revision history entries.

Table with columns: REV, DATE, DRAWN BY, DESCRIPTION. Contains revision history entries.

Professional Engineer seal for Michael Stickle, License No. GE5788, State of New Jersey.

Michael Stickle
NEW JERSEY LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: GE5788
COLLIERS ENGINEERING & DESIGN, INC.
N.J. C.O.A.#: 0462798650

PRELIMINARY AND FINAL MAJOR SITE PLAN FOR JERNEE MILL INDUSTRIAL

BLOCK 58
LOTS 2.01 & 9
BOROUGH OF SAYREVILLE
MIDDLESEX COUNTY
NEW JERSEY

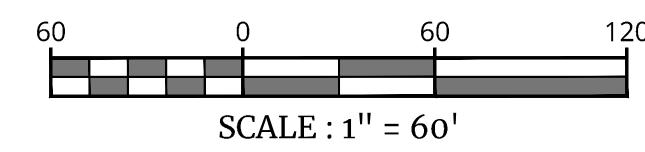
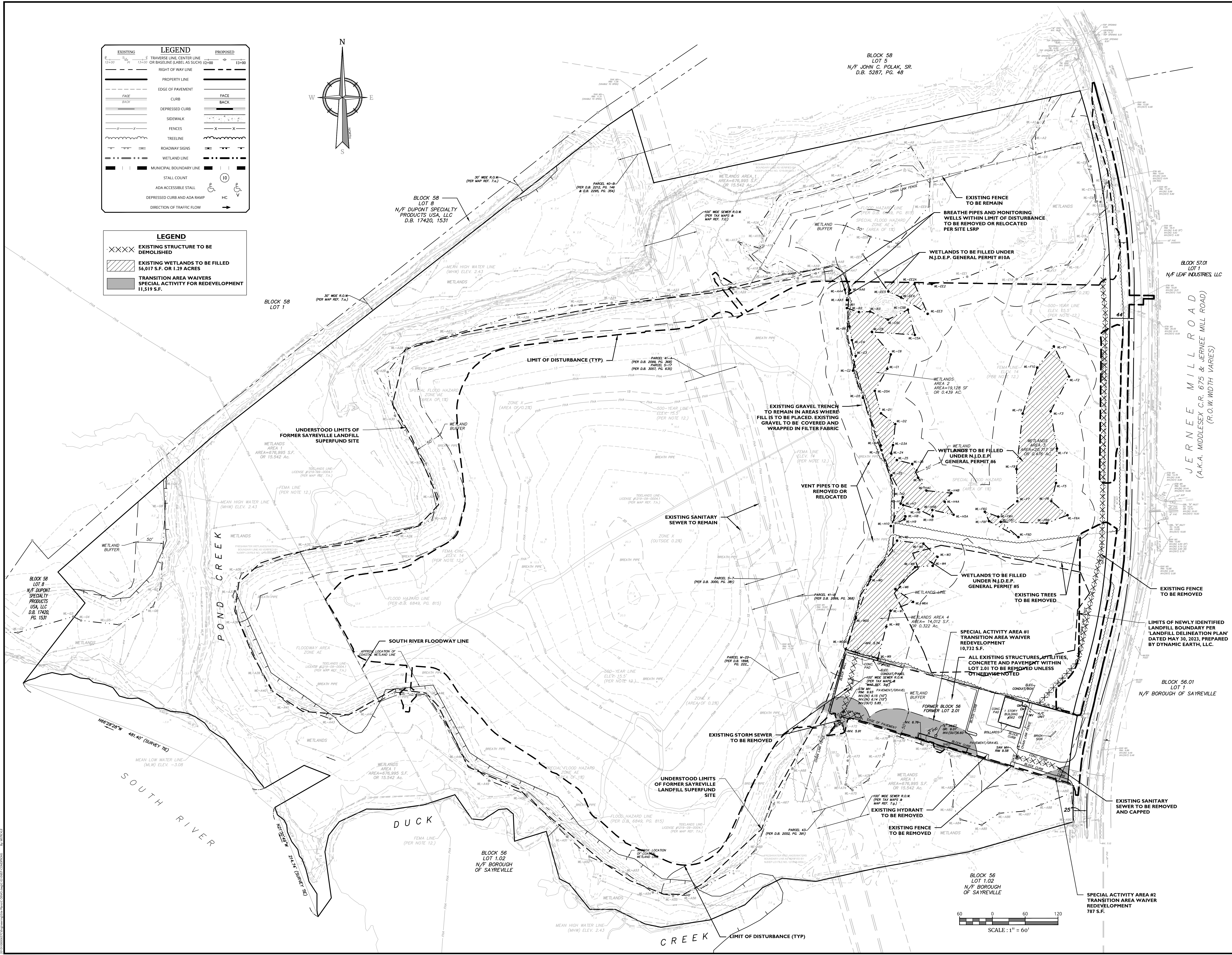
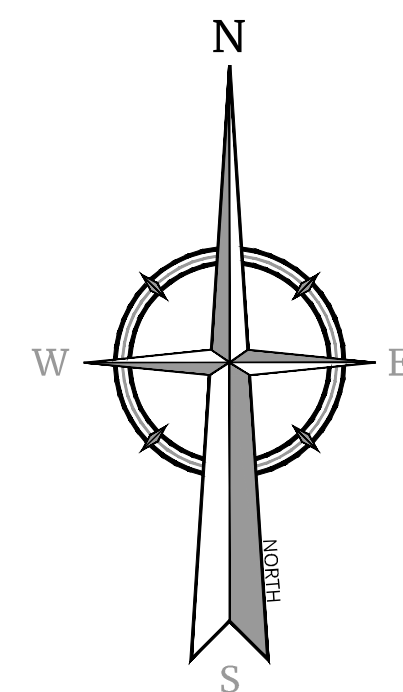
Colliers Engineering & Design logo and address: 101 Cranford Center Road, Suite 3400, Hammel, NJ 07733. Phone: 732.983.1950.

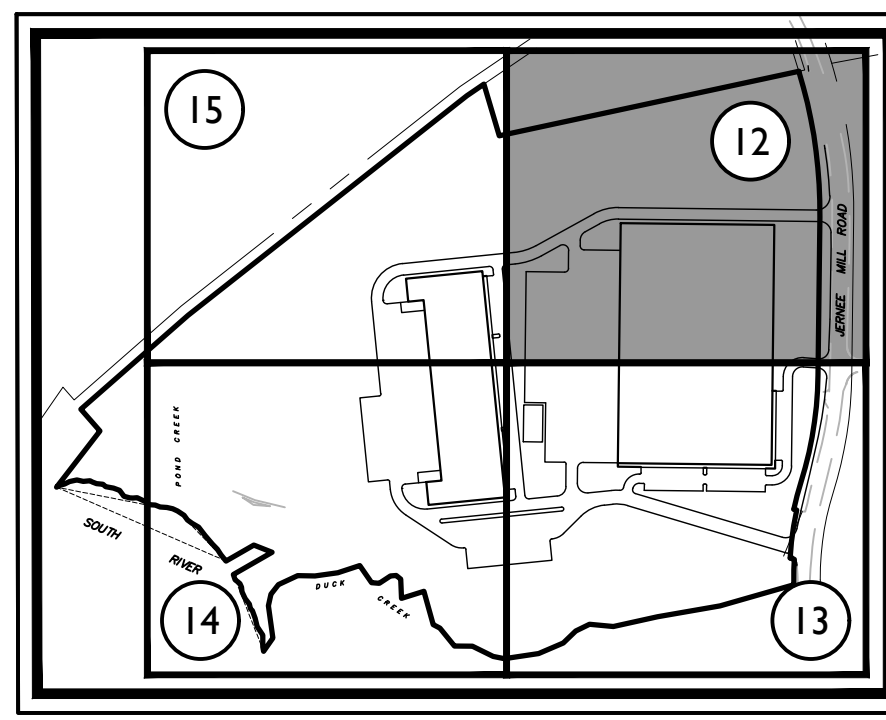
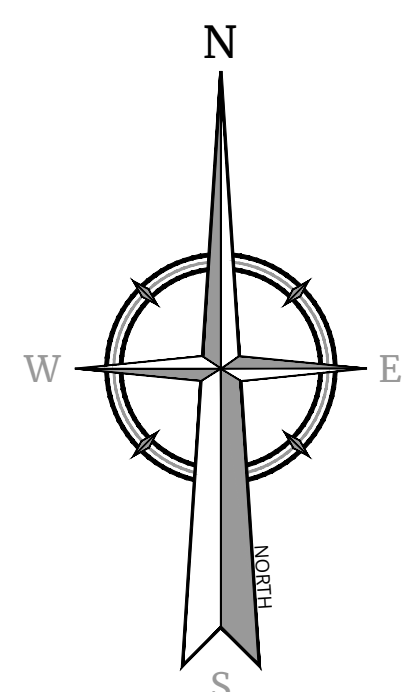
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EXISTING CONDITIONS/DEMOLITION PLAN

LEGEND table showing symbols for existing and proposed features: Traverse Line, Property Line, Edge of Pavement, Fences, Roadway Signs, Wetland Line, Municipal Boundary Line, Stall Count, ADA Accessible Stall, etc.

LEGEND table showing symbols for demolition and wetland areas: Existing Structure to be Demolished, Existing Wetlands to be Filled, Transition Area Waivers.





SHEET INDEX N.T.S.

MATCH LINE SEE SHEET 15

MATCH LINE SEE SHEET 13

100' WIDE SEWER R.O.W. (PER TAX MAPS & MAP REF. 7.0)

MECHANICAL MEZZANINE

PROPOSED FREEZER SPACE BUILDING
250,000 SF BUILDING FOOTPRINT
257,858 SF TOTAL BUILDING AREA

206,250 SF FREEZER SPACE
36,540 SF COLD DOCK
7,700 SF OFFICE (INC. MEZZANINE)
6,720 SF MAINTENANCE AREA (INC. MECHANICAL MEZZANINE)
648 SF ELECTRICAL PLATFORM
[E.F. ELEV. 25.00]

88 PARKING SPACES
30 LOADING BAYS
76 TRAILER PARKING STALLS

SMALL SCALE BIORETENTION BASIN #5

2 YR WSE = 14.24
10 YR WSE = 14.85
100 YR WSE = 15.50
EMERGENCY SPILLWAY EL. = 15.55

SMALL SCALE BIORETENTION BASIN #4

2 YR WSE = 14.25
10 YR WSE = 14.86
100 YR WSE = 15.51
EMERGENCY SPILLWAY EL. = 15.55

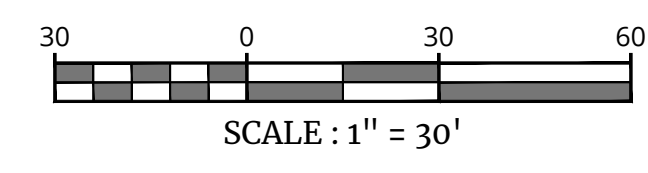
JERNEE MILL ROAD
(A.K.A. MIDDLESEX C.R. 675 & JERNEE MILL ROAD)
(R.O.W. WIDTH VARIES)

PAVEMENT LEGEND

- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD ASPHALT PAVEMENT
- POROUS PAVEMENT
- CONCRETE PAVEMENT AREA

LEGEND

EXISTING	PROPOSED
TRaverse Line Center Line (12+00 OR BASELINE LABEL AS SUCH)	TRaverse Line Center Line (12+00 OR BASELINE LABEL AS SUCH)
RIGHT OF WAY LINE	RIGHT OF WAY LINE
PROPERTY LINE	PROPERTY LINE
EDGE OF PAVEMENT	EDGE OF PAVEMENT
CURB	CURB
DEPRESSED CURB	DEPRESSED CURB
SIDEWALK	SIDEWALK
FENCES	FENCES
TREELINE	TREELINE
ROADWAY SIGNS	ROADWAY SIGNS
WETLAND LINE	WETLAND LINE
MUNICIPAL BOUNDARY LINE	MUNICIPAL BOUNDARY LINE
TYPE '9' INLET	TYPE '9' INLET
TYPE 'C', 'D', 'E' INLET	TYPE 'C', 'D', 'E' INLET
STORM MANHOLE	STORM MANHOLE
SANITARY MANHOLE	SANITARY MANHOLE
FLARED END SECTION	FLARED END SECTION
HEADWALL	HEADWALL
HYDRANT	HYDRANT
POLE MOUNTED LIGHT	POLE MOUNTED LIGHT
CONTOURS	CONTOURS
SPOT ELEVATION	SPOT ELEVATION
DIRECTION OF OVERLAND FLOW	DIRECTION OF OVERLAND FLOW
TOP OF CURB ELEVATION	TOP OF CURB ELEVATION
BOTTOM OF CURB ELEVATION	BOTTOM OF CURB ELEVATION
TOP OF DEPRESSED CURB ELEVATION	TOP OF DEPRESSED CURB ELEVATION



Michael Stickle
NEW JERSEY LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: GE57838
COLLIERS ENGINEERING & DESIGN, INC.
N.J. C.O.A.#. 2462798650

PRELIMINARY AND FINAL
MAJOR SITE PLAN
FOR
JERNEE MILL INDUSTRIAL

BLOCK 58
LOTS 2.01 & 9
BOROUGH OF SAYREVILLE
MIDDLESEX COUNTY
NEW JERSEY

Colliers Engineering & Design
HOLMDEL (Headquarters)
101 Crawford Corner Road,
Suite 3400
Holmdel, NJ 07733
Phone: 732-983-1950
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

SCALE: AS SHOWN DATE: 6/12/2023 DRAWN BY: RM CHECKED BY: DB
PROJECT NUMBER: 1000657C DRAWING NAME: C-GRAD

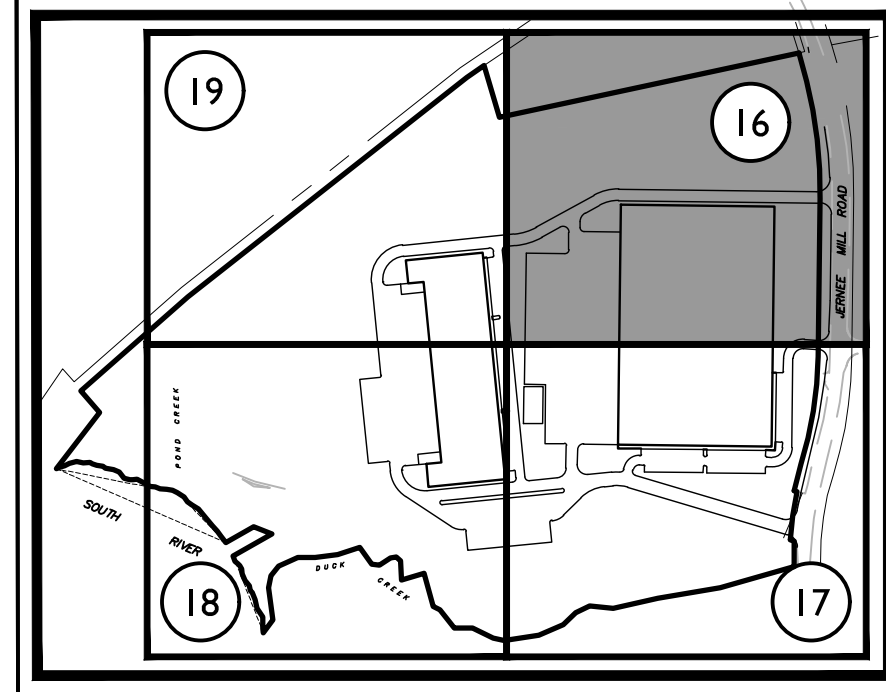
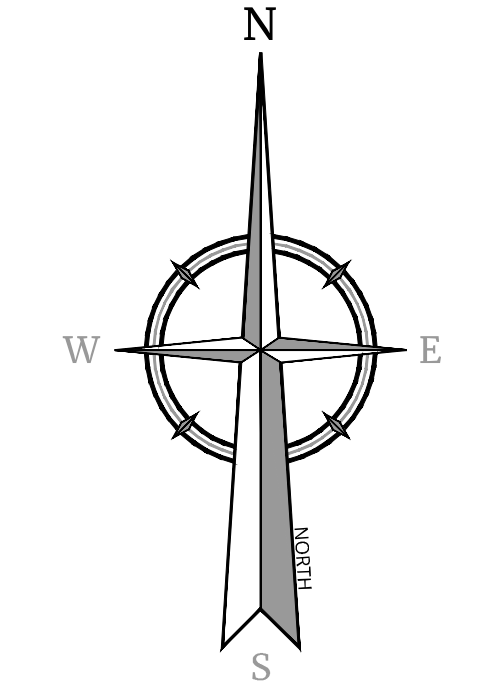
SHEET TITLE: GRADING PLAN

SHEET NUMBER: 12 of 37

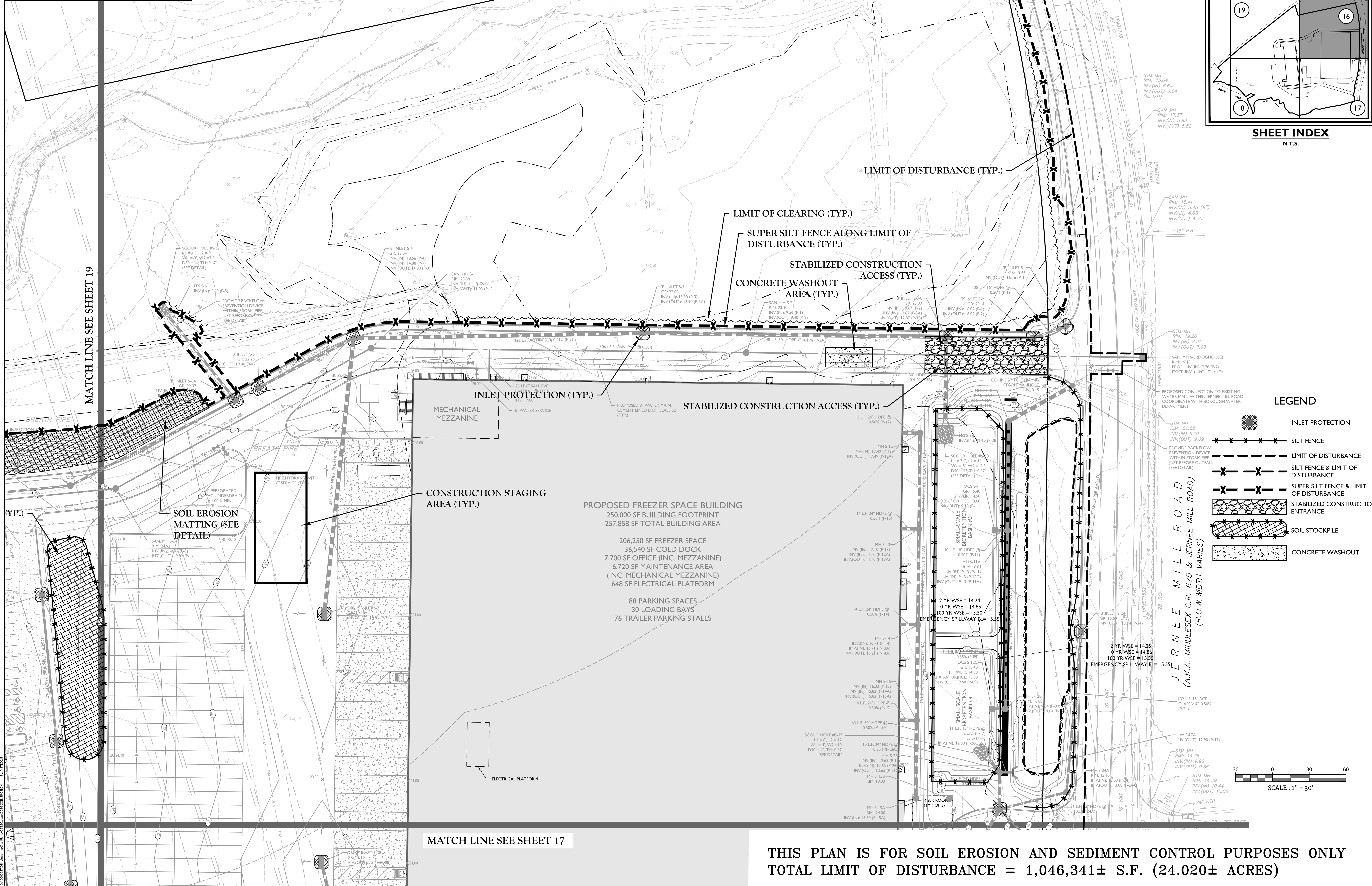
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



LOCATION MAP (SCALE: 1"=2,000')



SHEET INDEX
N.T.S.



MATCH LINE SEE SHEET 19

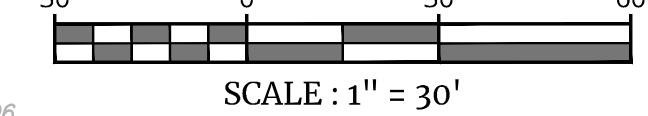
MATCH LINE SEE SHEET 17

PROPOSED FREEZER SPACE BUILDING
 250,000 SF BUILDING FOOTPRINT
 257,858 SF TOTAL BUILDING AREA

206,250 SF FREEZER SPACE
 36,540 SF COLD DOCK
 7,700 SF OFFICE (INC. MEZZANINE)
 6,720 SF MAINTENANCE AREA (INC. MECHANICAL MEZZANINE)
 648 SF ELECTRICAL PLATFORM

88 PARKING SPACES
 30 LOADING BAYS
 76 TRAILER PARKING STALLS

- LEGEND**
- INLET PROTECTION
 - SILT FENCE
 - LIMIT OF DISTURBANCE
 - SILT FENCE & LIMIT OF DISTURBANCE
 - SUPER SILT FENCE & LIMIT OF DISTURBANCE
 - STABILIZED CONSTRUCTION ENTRANCE
 - SOIL STOCKPILE
 - CONCRETE WASHOUT



SCALE: 1" = 30'

THIS PLAN IS FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY
TOTAL LIMIT OF DISTURBANCE = 1,046,341± S.F. (24.020± ACRES)

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 PREPARING TO DISTURB THE EARTH'S
 SURFACE. ALWAYS BE ANNY STATE

REV	DATE	DESCRIPTION
1	06/20/23	ISSUED FOR PERMITS
2	06/20/23	ISSUED FOR PERMITS
3	06/20/23	ISSUED FOR PERMITS
4	06/20/23	ISSUED FOR PERMITS

Michael Stickle
 NEW JERSEY LICENSED PROFESSIONAL ENGINEER
 LICENSE NUMBER: GE57838
 COLLIER'S ENGINEERING & DESIGN, INC.
 N.J. C.O.A.#. 3642798650

PRELIMINARY AND FINAL MAJOR SITE PLAN

FOR
JERNEE MILL INDUSTRIAL

BLOCK 58
 LOTS 2.01 & 9

BOROUGH OF SAYREVILLE
 MIDDLESEX COUNTY
 NEW JERSEY

Colliers HOLMDEL (Headquarters)
 101 Crawford Corner Road,
 Suite 3400
 Holmdel, NJ 07733
 Phone: 732.983.1950
 COLLIER'S ENGINEERING & DESIGN, INC.
 CORP. BUSINESS ADDRESS: 1000
 Engineering & Design
 10006657C C-515C

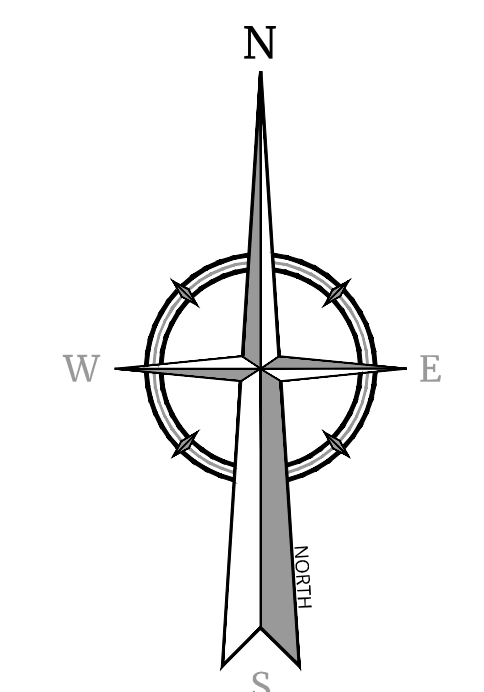
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 PROJECT NUMBER: 10006657C DRAWING NAME: C-515C

SHEET TITLE: SOIL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER: 16 of 37

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MATCH LINE SEE SHEET 16



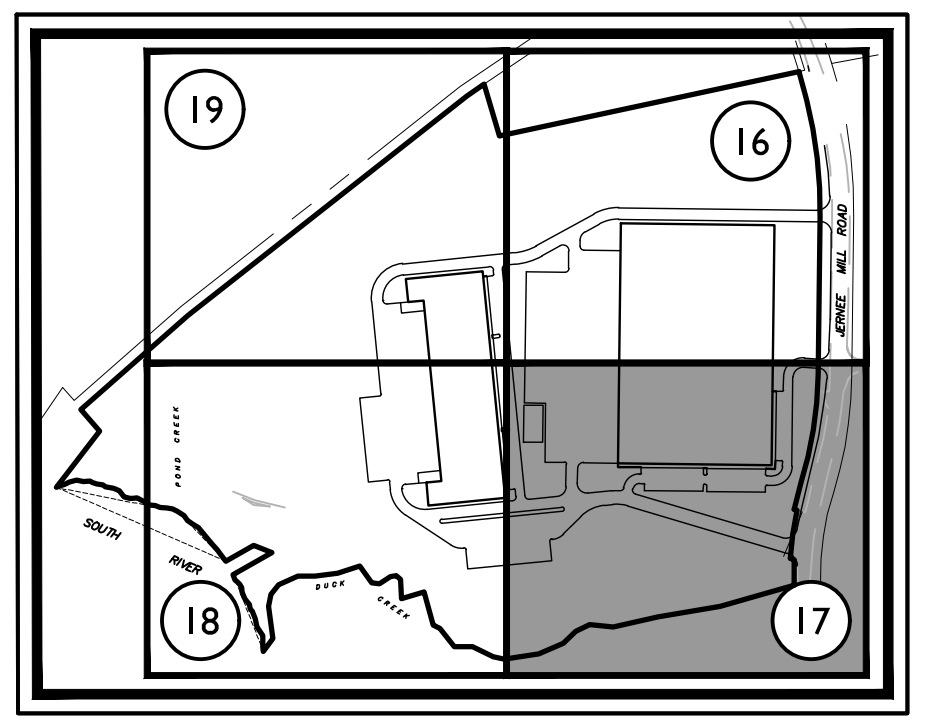
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FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM



SHEET INDEX
N.T.S.

PROPOSED FREEZER SPACE BUILDING
250,000 SF BUILDING FOOTPRINT
257,858 SF TOTAL BUILDING AREA

206,250 SF FREEZER SPACE
36,540 SF COLD DOCK
7,700 SF OFFICE (INC. MEZZANINE)
6,720 SF MAINTENANCE AREA
(INC. MECHANICAL MEZZANINE)
648 SF ELECTRICAL PLATFORM

88 PARKING SPACES
30 LOADING BAYS
76 TRAILER PARKING STALLS

CONSTRUCTION STAGING AREA (TYP.)

OFFICE MEZZANINE

SOIL STOCKPILE (TYP.)

LIMIT OF DISTURBANCE (TYP.)

INLET PROTECTION (TYP.)
SUPER SILT FENCE ALONG LIMIT OF DISTURBANCE (TYP.)

LIMIT OF CLEARING (TYP.)

CONCRETE WASHOUT AREA (TYP.)

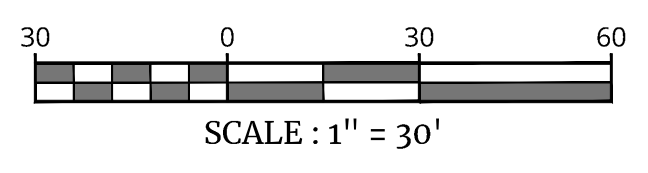
SILT FENCE (TYP.)

STABILIZED CONSTRUCTION ACCESS (TYP.)

SOIL EROSION MATTING (SEE DETAIL)

LEGEND

- INLET PROTECTION
- SILT FENCE
- LIMIT OF DISTURBANCE
- SUPER SILT FENCE & LIMIT OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE
- SOIL STOCKPILE
- CONCRETE WASHOUT



MATCH LINE SEE SHEET 18

PRELIMINARY AND FINAL
MAJOR SITE PLAN
FOR
JERNEE MILL INDUSTRIAL

BLOCK 58
LOTS 2.01 & 9
BOROUGH OF SAYREVILLE
MIDDLESEX COUNTY
NEW JERSEY

Colliers
Engineering & Design

HOLMDEL (Headquarters)
101 Crawford Corner Road,
Suite 3400
Holmdel, NJ 07733
Phone: 732.983.1950
COLLIERS ENGINEERING & DESIGN, INC.
CORP. BUSINESS ADDRESS: 4000 CONCORD, TN

SCALE: AS SHOWN DATE: 6/12/2023 DRAWN BY: RM CHECKED BY: DB
PROJECT NUMBER: 10000657C DRAWING NAME: C-SISE

SHEET TITLE: SOIL EROSION & SEDIMENT CONTROL PLAN
SHEET NUMBER: 17 of 37

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

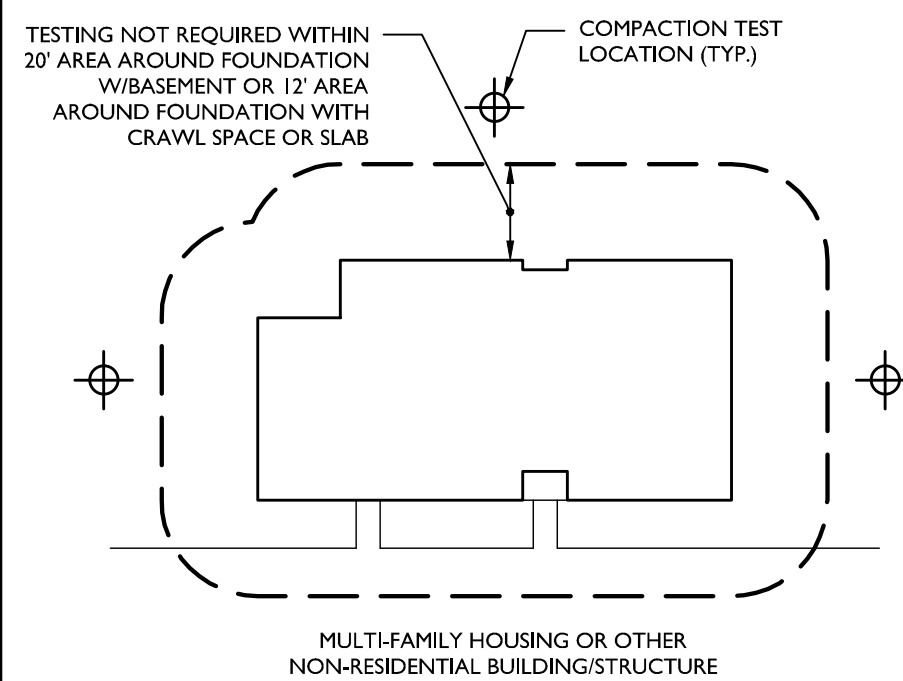
SOIL DECOMPACTION AND TESTING REQUIREMENTS

MCNJ-SOIL-NOTE-2000 05/01/18

- A. SOIL COMPACTION TESTING REQUIREMENTS**
1. COMPACTION TESTING RESULTS SHALL BE SUBMITTED TO THE BOROUGH ENGINEER'S OFFICE PRIOR TO REQUESTING A SOIL EROSION CONTROL INSPECTION. TEST RESULTS MUST BE PROVIDED ON A SOIL VERIFICATION FORM OBTAINED FROM THE BOROUGH ENGINEER'S OFFICE.
 2. SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL, STANDARD FOR VEGETATIVE COVER NOTES SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 4.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER. (SEE "STANDARD FOR VEGETATIVE COVER" NOTES FOR TOPSOIL REQUIREMENTS).
 3. AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE SOIL EROSION CONTROL PLAN. MINIMUM 2 TESTS FOR LIMIT OF DISTURBANCE UP TO 1 ACRE, PLUS 2 TESTS PER ACRE OF LIMIT OF DISTURBANCE THEREAFTER, SPACED EVENLY THROUGHOUT THE SITE.
 4. COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN SHALL BE USED TO MARK THE LOCATIONS OF TESTS AND ATTACHED TO THE COMPACTION REMEDIATION FORM AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
 5. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE PROBING OR PENETRATION TESTING METHODS (SEE DETAILS), THE CONTRACTOR/DIYER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL DENSITY TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DENSITY TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

- B. COMPACTION TESTING METHODS**
1. PROBING WIRE TEST (SEE DETAIL)
 2. HANDHELD PENETROMETER TEST (SEE DETAIL)
 3. TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
 4. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
 5. ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS AND WHICH PRODUCE A DRY WEIGHT SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.
- NOTE: SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION MITIGATION IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION, FOR ADDITIONAL REQUIREMENTS AND DEFINITIONS SEE SECTION 19 "STANDARD FOR LAND GRADING" OF THE STANDARD.

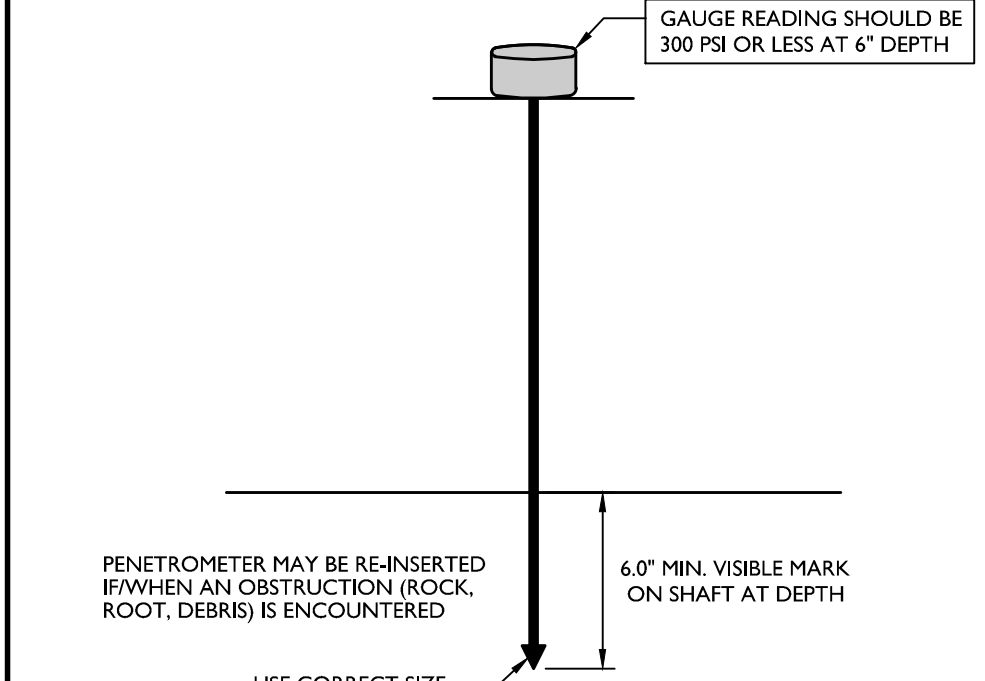
- C. PROCEDURES FOR SOIL COMPACTION MITIGATION**
1. PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
 2. RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/ILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
 3. IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.



NOTES:
1. SOIL COMPACTION TESTING LOCATIONS IDENTIFIED ARE RECOMMENDED LOCATIONS FOR GRADED/DISTURBED AREAS WITHIN THE VICINITY OF BUILDINGS AND STRUCTURES OR ON INDIVIDUAL LOTS. MINIMUM TWO (2) TEST PITS PER LOT UP TO 1 ACRE OF DISTURBANCE.
2. FOR GRADED/DISTURBED AREAS WITHIN OPEN OR COMMON SPACES, SOIL COMPACTION TESTING SHALL BE PERFORMED AT TWO (2) TEST PITS PER ACRE OF OVERALL LIMIT OF DISTURBANCE, EVENLY DISTRIBUTED.

TYPICAL SOIL COMPACTION TESTING LOCATIONS DETAIL

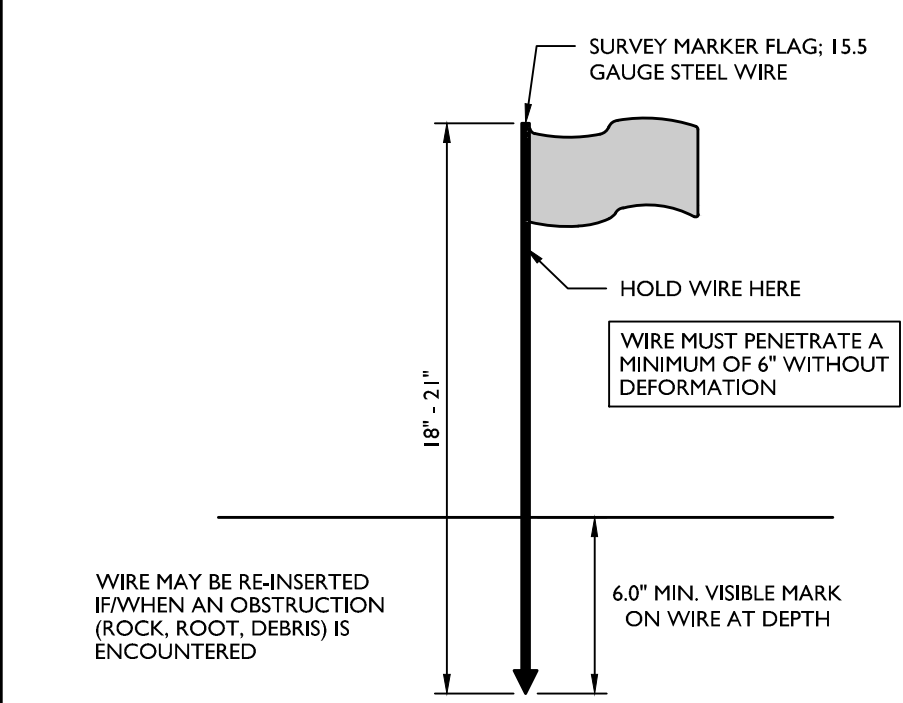
MCNJ-SOIL-ER05-2802 12/01/17



NOTE:
1. SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE PROBE. PROBE MUST PENETRATE AT LEAST 6" WITH LESS THAN 300 PSI READING ON THE GAUGE.
2. USE 1/2" TIP FOR FIRM SOIL, 3/4" TIP FOR SOFT SOIL.

HANDHELD SOIL PENETROMETER TEST DETAIL

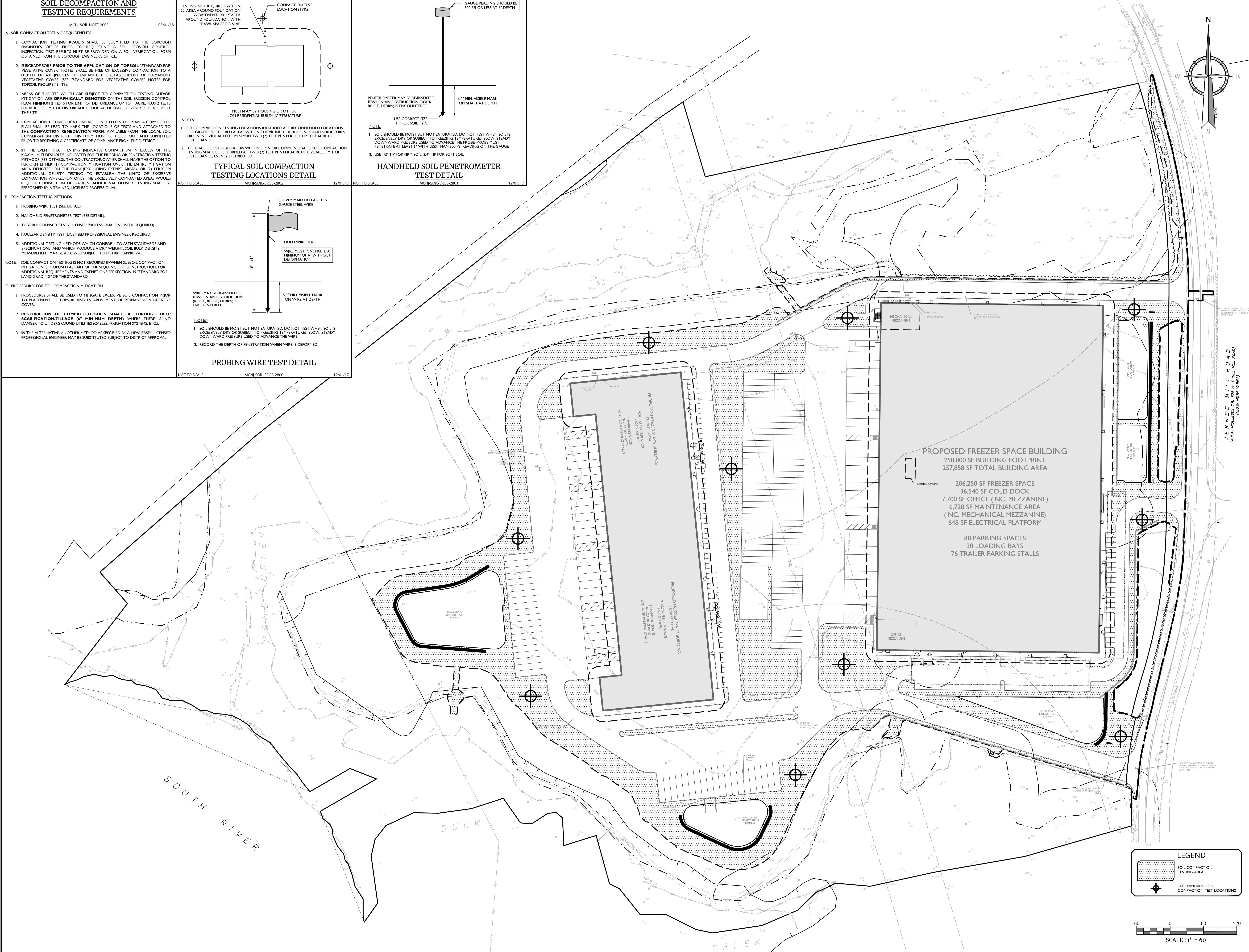
MCNJ-SOIL-ER05-2801 12/01/17



NOTE:
1. SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE WIRE.
2. RECORD THE DEPTH OF PENETRATION WHEN WIRE IS DEFORMED.

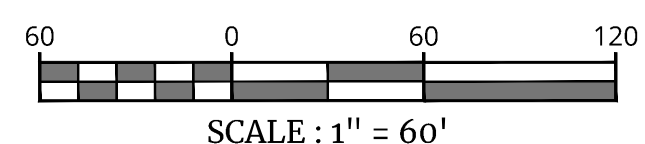
PROBING WIRE TEST DETAIL

MCNJ-SOIL-ER05-2800 12/01/17



LEGEND

	SOIL COMPACTION TESTING AREAS
	RECOMMENDED SOIL COMPACTION TEST LOCATIONS



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REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
1	02/02/23	ISSUED FOR PERMITS	RM		
2	04/20/24	REVISIONS FOR NEW MARKET	RM		
3	05/20/24	REVISIONS FOR DISTRICT APPROVAL	RM		

REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
1	02/02/23	ISSUED FOR PERMITS	RM		
2	04/20/24	REVISIONS FOR NEW MARKET	RM		
3	05/20/24	REVISIONS FOR DISTRICT APPROVAL	RM		

Michael Stickle
NEW JERSEY LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: GE57838
COLLIERS ENGINEERING & DESIGN, INC.
N.J. C.O.A. #: 2662798650

PRELIMINARY AND FINAL MAJOR SITE PLAN
FOR
JERNEE MILL INDUSTRIAL
BLOCK 58
LOTS 2.01 & 9
BOROUGH OF SAYREVILLE
MIDDLESEX COUNTY
NEW JERSEY

Colliers Engineering & Design
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COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CORP. (NY)

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	6/12/2023	RM	DB
PROJECT NUMBER:	DRAWING NAME:		
10000657C	C-515C		

SHEET TITLE:
SOIL MANAGEMENT & PREPARATION PLAN
SHEET NUMBER:
22 of 37

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

GENERAL PLANTING NOTES

LAND-GENL-PLNT-NOTE

MOD: 05/06/22 09/14/2021

A. GENERAL

- 1. THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING PURPOSES ONLY... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES MARKOUTS... 3. OWNER OR HIS/HER REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO BEGINNING PLANTING OPERATIONS.

B. PLANT MATERIAL

- 1. PLANT MATERIAL: PLANT MATERIAL SHALL CONFORM WITH THE ANSI Z601.1-2014 AMERICAN STANDARD FOR NURSERY STOCK... 2. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY... 3. ALL PLANT MATERIAL SHALL BE PLANTED AT THE SAME LEVEL WHEN PLANTED.

D. PLANTING PROCEDURES

- 1. PLANTING BEDS: PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS... 2. PLANTING BEDS SHALL RECEIVE FOUR (4) INCHES OF DOUBLE SHREDDED HARDWOOD MULCH... 3. SHRUB BASKETS SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS.

C. TOPSOIL REQUIREMENTS

- 1. TOPSOIL REQUIREMENTS: SEE NIDOT SECTION 917 FOR REFERENCE AND SOIL ADDITIVES... 2. UNACCEPTABLE TOPSOIL SOURCES: DO NOT OBTAIN TOPSOIL FROM THE FOLLOWING SOURCES... 3. TOPSOIL SHALL BE UNIFORM QUALITY.

ERNMX-122 - MIX 'A'

FACTV WETLAND MEADOW MIX BY ERNST CONSERVATION SEEDS HEIGHT: 10 - 20 FEET SEEDING RATE: 20-30 LBS PER ACRE

- MIX COMPOSITION: 30.0% CAREX VILPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE) 29.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDBLUE, PA ECOTYPE) 16.8% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)

ERNMX-122 - SEED MIX 'A' MEADOW NOTES

SCHEDULE MEADOW SEEDING SHOULD BE CONDUCTED ONLY BETWEEN MARCH 1 AND MAY 15... UNLESS SPECIFICALLY AUTHORIZED BY THE TOWNSHIP LANDSCAPE ARCHITECT...

SITE PREPARATION: ERADICATE EXISTING VEGETATION BY HAVING A LICENSED SPRAY TECHNICIAN APPLY AN APPROVED HERBICIDE OR AQUATIC HERBICIDE FORMULATION...

IMPLEMENTATION: A SOIL TEST SHOULD BE PERFORMED PRIOR TO IMPLEMENTATION AND SUPPLIED TO THE LANDSCAPE ARCHITECT... FIRST GROWING SEASON MAINTENANCE: WHEN FEASIBLE, POST PLANTING MAINTENANCE WILL PROVIDE THE BEST RESULTS FOR WET MEADOWS AND WETLANDS.

SECOND AND SUBSEQUENT GROWING SEASONS MAINTENANCE: PROBLEM WEEDS SHOULD BE HAND PULLED OR SPOT SPRAYED WITH AN APPROVED AQUATIC HERBICIDE.

ACCEPTANCE: MEADOW SEEDING MAY BE DEEMED COMPLETE WHEN GERMINATION IS EVIDENT FOR GREATER THAN 50% OF THE SPECIES IN THE MIX AND THE SOIL IS SUFFICIENTLY STABILIZED TO PREVENT EROSION.

LAWN AREAS: THE LANDSCAPE CONTRACTOR SHALL TEST THE SOIL TO CONFIRM SUITABILITY FOR THE PROPOSED SEED MIX AND SUBMIT AS REQUIRED TO MEET THE REQUIRED 18 AND 12 INCH DEPTHS.

1. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLANS... 2. SOD, IF SPECIFIED, SHALL CONSIST OF A STATE CERTIFIED MIXTURE.

3. EXISTING VEGETATION: EXISTING TREES AND SHRUBS TO BE PRESERVED ON SITE SHALL BE PROTECTED AGAINST CONSTRUCTION DAMAGE... 4. SITE CLEANUP: PLANTING DEBRIS (WIRE, TWINE, RUBBERHOSE, BACKFILL, ETC.) SHALL BE REMOVED FROM THE SITE AFTER PLANTING IS COMPLETE.

5. PLANTING PROCEDURES: PLANTING SHALL BE PLACED OUTSIDE THE INDIVIDUAL TREE CANOPY... 6. MULCH SHALL BE A CONTINUOUS BED FOR MASS LANDSCAPE PLANTINGS.

ERNMX-127 - MIX 'B'

RETENTION BASIN WILDLIFE MIX BY ERNST CONSERVATION SEEDS HEIGHT: 10 - 20 FEET SEEDING RATE: 20-30 LBS PER ACRE

- MIX COMPOSITION: 30.0% PANICUM CLANDESTINUM, TOGA (DEERTONGUE, TOGA) 29.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDBLUE, PA ECOTYPE) 20.0% ELYMUS VIRGINICUS, MADISON (VIRGINIA WILDBLUE, MADISON)

ERNMX-127 - SEED MIX 'B' MEADOW NOTES

SCHEDULE MEADOW SEEDING SHOULD BE CONDUCTED ONLY BETWEEN MARCH 1 AND MAY 15... UNLESS SPECIFICALLY AUTHORIZED BY THE TOWNSHIP LANDSCAPE ARCHITECT...

SITE PREPARATION: ERADICATE EXISTING VEGETATION BY HAVING A LICENSED SPRAY TECHNICIAN APPLY AN APPROVED HERBICIDE OR AQUATIC HERBICIDE FORMULATION...

IMPLEMENTATION: A SOIL TEST SHOULD BE PERFORMED PRIOR TO IMPLEMENTATION AND SUPPLIED TO THE LANDSCAPE ARCHITECT... FIRST GROWING SEASON MAINTENANCE: WHEN FEASIBLE, POST PLANTING MAINTENANCE WILL PROVIDE THE BEST RESULTS FOR WET MEADOWS AND WETLANDS.

SECOND AND SUBSEQUENT GROWING SEASONS MAINTENANCE: PROBLEM WEEDS SHOULD BE HAND PULLED OR SPOT SPRAYED WITH AN APPROVED AQUATIC HERBICIDE.

ACCEPTANCE: MEADOW SEEDING MAY BE DEEMED COMPLETE WHEN GERMINATION IS EVIDENT FOR GREATER THAN 50% OF THE SPECIES IN THE MIX AND THE SOIL IS SUFFICIENTLY STABILIZED TO PREVENT EROSION.

LAWN AREAS: THE LANDSCAPE CONTRACTOR SHALL TEST THE SOIL TO CONFIRM SUITABILITY FOR THE PROPOSED SEED MIX AND SUBMIT AS REQUIRED TO MEET THE REQUIRED 18 AND 12 INCH DEPTHS.

1. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLANS... 2. SOD, IF SPECIFIED, SHALL CONSIST OF A STATE CERTIFIED MIXTURE.

3. EXISTING VEGETATION: EXISTING TREES AND SHRUBS TO BE PRESERVED ON SITE SHALL BE PROTECTED AGAINST CONSTRUCTION DAMAGE... 4. SITE CLEANUP: PLANTING DEBRIS (WIRE, TWINE, RUBBERHOSE, BACKFILL, ETC.) SHALL BE REMOVED FROM THE SITE AFTER PLANTING IS COMPLETE.

5. PLANTING PROCEDURES: PLANTING SHALL BE PLACED OUTSIDE THE INDIVIDUAL TREE CANOPY... 6. MULCH SHALL BE A CONTINUOUS BED FOR MASS LANDSCAPE PLANTINGS.

ERNMX-181 - MIX 'C'

NATIVE STEP SLOPE MIX WITH ANNUAL RYEGRASS BY ERNST CONSERVATION SEEDS HEIGHT: 10 - 6.5 FEET SEEDING RATE: 20-30 LBS PER ACRE OR 1.5 LBS PER 1,000 SQ. FT.

- MIX COMPOSITION: 31.0% SORGHASTRUM NUTANS, NEW ENGLAND 2 ECOTYPE (INDIANGRASS, NEW ENGLAND 2 ECOTYPE) 20.0% LOLLUM MULTIFLORUM (ANNUAL RYEGRASS) 14.0% ANDROPOGON GERARDI, NIAGARA (BIG BLUESTEM, NIAGARA)

ERNMX-181 - SEED MIX 'C' MEADOW NOTES

SCHEDULE MEADOW SEEDING SHOULD BE CONDUCTED ONLY BETWEEN MARCH 1 AND MAY 15... UNLESS SPECIFICALLY AUTHORIZED BY THE TOWNSHIP LANDSCAPE ARCHITECT...

SITE PREPARATION: ERADICATE EXISTING VEGETATION BY HAVING A LICENSED SPRAY TECHNICIAN APPLY AN APPROVED HERBICIDE OR AQUATIC HERBICIDE FORMULATION...

IMPLEMENTATION: A SOIL TEST SHOULD BE PERFORMED PRIOR TO IMPLEMENTATION AND SUPPLIED TO THE LANDSCAPE ARCHITECT... FIRST GROWING SEASON MAINTENANCE: POST PLANTING MAINTENANCE WILL PROVIDE IMPROVED RESULTS IF THE GROUND IS NOT TOO ROUGH OR STEEP.

SECOND AND SUBSEQUENT GROWING SEASONS MAINTENANCE: PROBLEM WEEDS SHOULD BE HAND PULLED OR SPOT SPRAYED WITH AN APPROVED HERBICIDE.

ACCEPTANCE: MEADOW SEEDING MAY BE DEEMED COMPLETE WHEN GERMINATION IS EVIDENT FOR GREATER THAN 50% OF THE SPECIES IN THE MIX AND THE SOIL IS SUFFICIENTLY STABILIZED TO PREVENT EROSION.

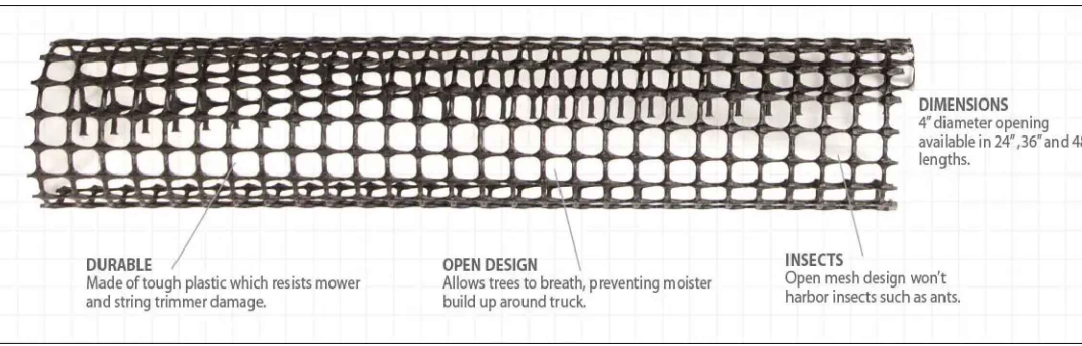
LAWN AREAS: THE LANDSCAPE CONTRACTOR SHALL TEST THE SOIL TO CONFIRM SUITABILITY FOR THE PROPOSED SEED MIX AND SUBMIT AS REQUIRED TO MEET THE REQUIRED 18 AND 12 INCH DEPTHS.

1. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLANS... 2. SOD, IF SPECIFIED, SHALL CONSIST OF A STATE CERTIFIED MIXTURE.

3. EXISTING VEGETATION: EXISTING TREES AND SHRUBS TO BE PRESERVED ON SITE SHALL BE PROTECTED AGAINST CONSTRUCTION DAMAGE... 4. SITE CLEANUP: PLANTING DEBRIS (WIRE, TWINE, RUBBERHOSE, BACKFILL, ETC.) SHALL BE REMOVED FROM THE SITE AFTER PLANTING IS COMPLETE.

5. PLANTING PROCEDURES: PLANTING SHALL BE PLACED OUTSIDE THE INDIVIDUAL TREE CANOPY... 6. MULCH SHALL BE A CONTINUOUS BED FOR MASS LANDSCAPE PLANTINGS.

AM LEONARD 4IN DIA X 36IN PREMIUM RIGID PLASTIC MESH TREE GUARD



PRODUCT SPECS

MATERIAL: HDPE DIAMETER (INCHES): 4 LENGTH (INCHES): 36 COLOR: BLACK CONTACT INFORMATION: A.M. LEONARD

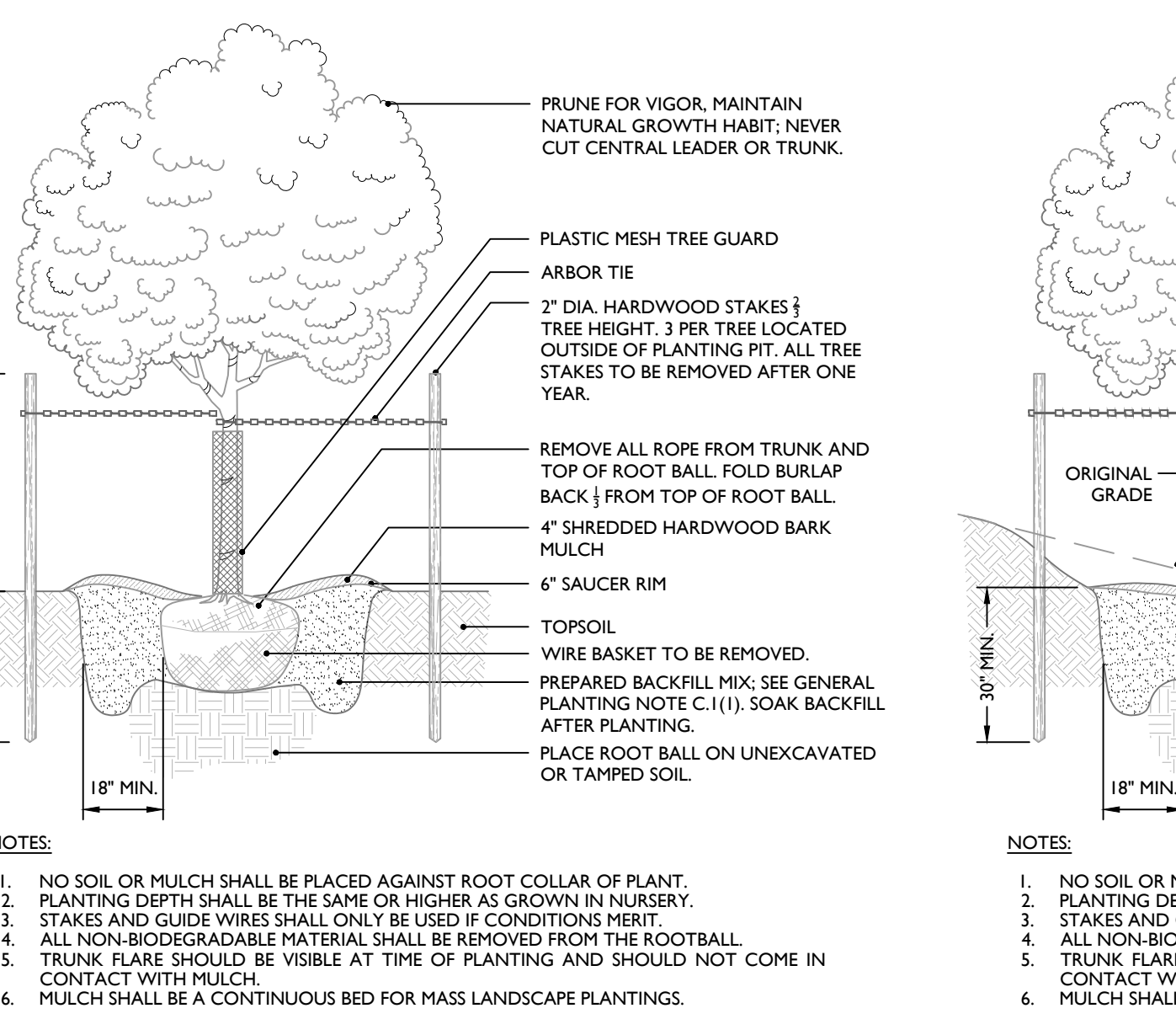
LAWN SEED MIX NOTES

- MIX #13 (WELL TO MODERATELY DRAINED SOIL): 175 LBS/ACRE CHEWING FESCUE AND/OR STRONG CREEPING RED FESCUE 45 LBS/ACRE PERENNIAL RYEGRASS 45 LBS/ACRE KENTUCKY BLUE GRASS (BLEND)

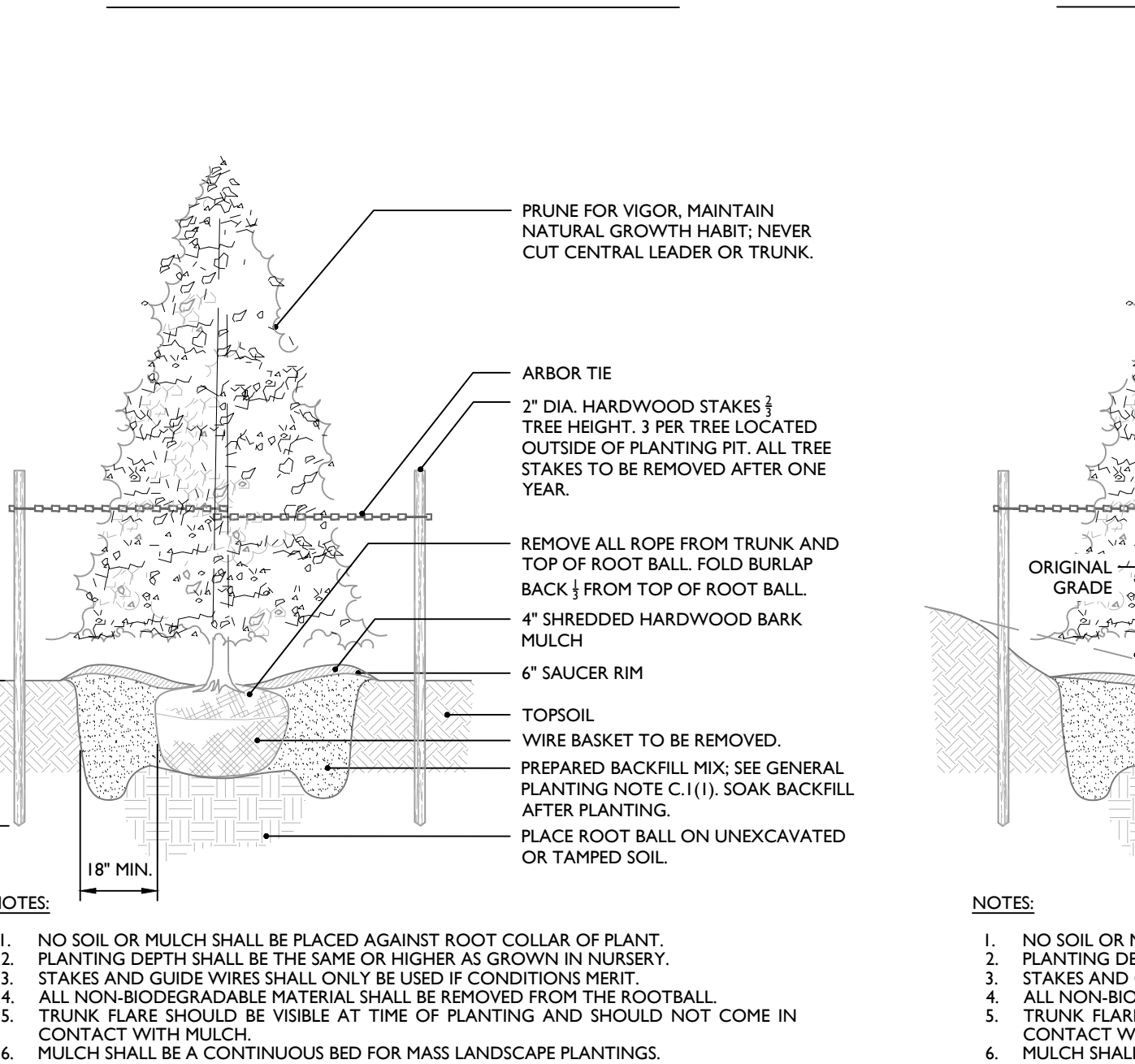
- MIX #15 (WELL TO MODERATELY DRAINED SOIL): 90 LBS/ACRE ROUGH BLUEGRASS 90 LBS/ACRE STRONG CREEPING RED FESCUE 135 LBS/ACRE PERENNIAL RYEGRASS 20 LBS/ACRE PERENNIAL RYE GRASS (BLEND)

OPTIMUM SEEDING DATES: 8/1 - 10/1 (ZONE 5b, 6a) 9/15 - 10/15 (ZONE 6b) 8/15 - 10/30 (ZONE 7a, 7b) SUMMER SEEDING DATES: 6/1 - 7/31 (ZONE 5b, 6a) 5/1 - 8/14 (ZONE 6b, 7a, 7b)

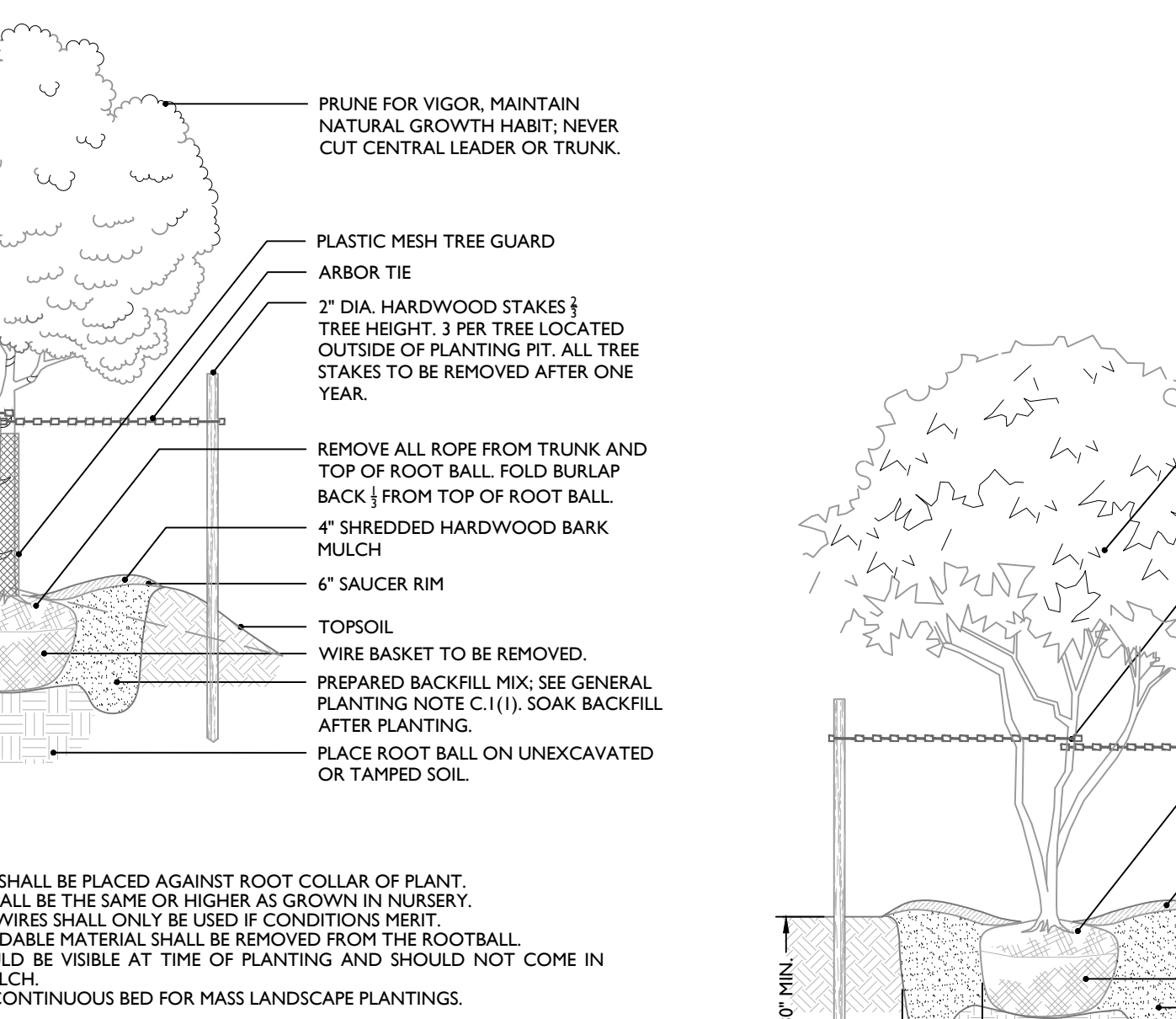
ACCEPTABLE SEEDING DATES: 3/15 - 5/31 (ZONE 5b, 6a) 3/1 - 4/30 (ZONE 6b) 2/1 - 4/30 (ZONE 7a, 7b)



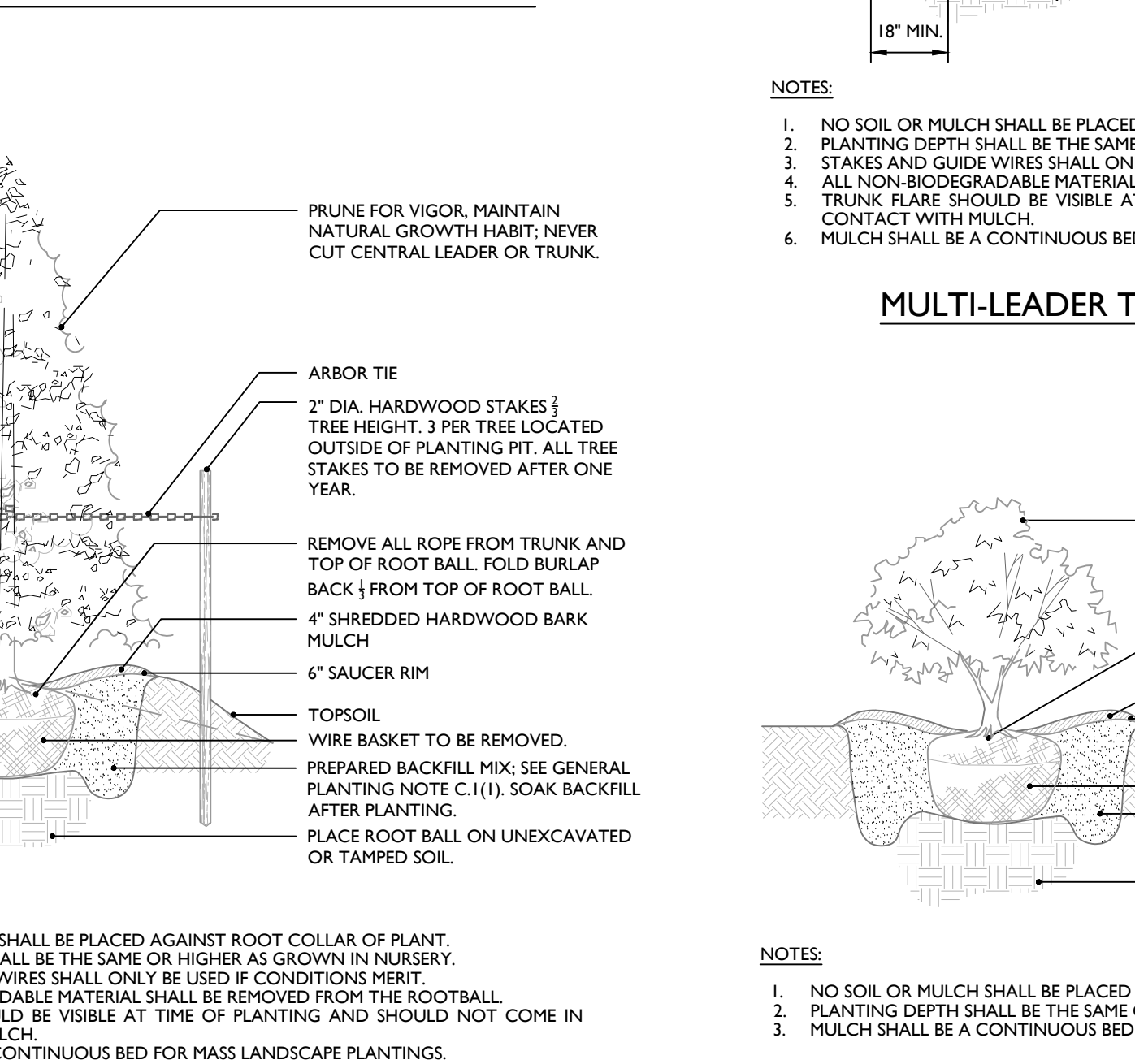
DECIDUOUS TREE PLANTING DETAIL



EVERGREEN TREE PLANTING DETAIL

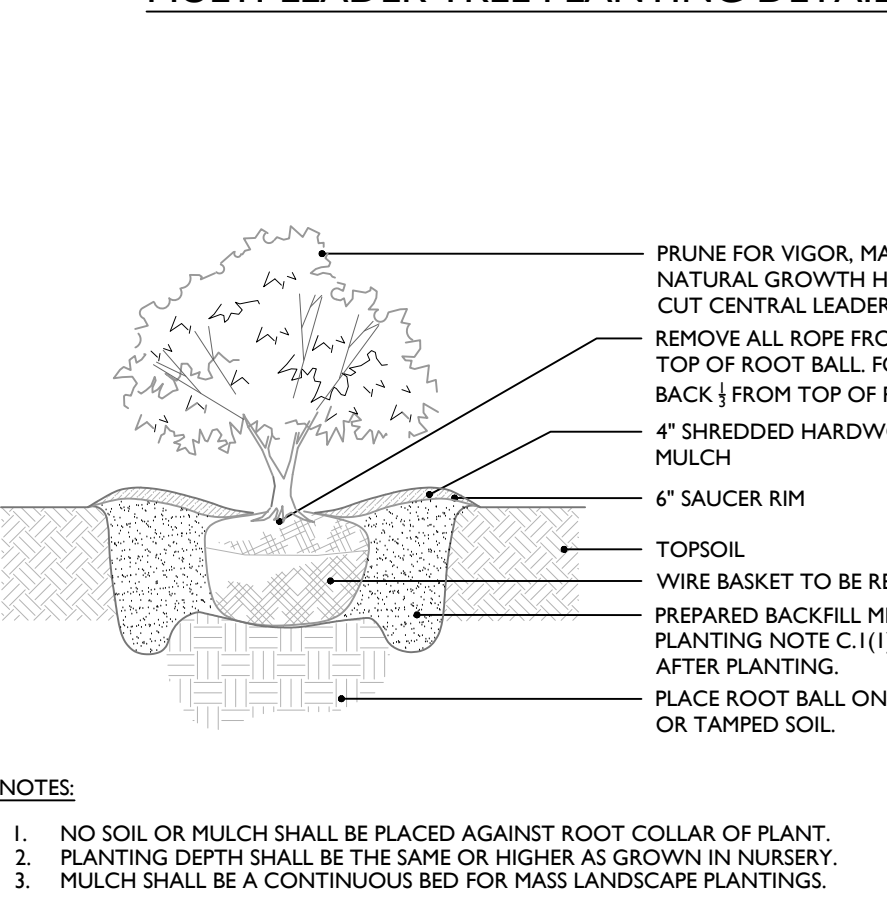


DECIDUOUS TREE SLOPE PLANTING DETAIL

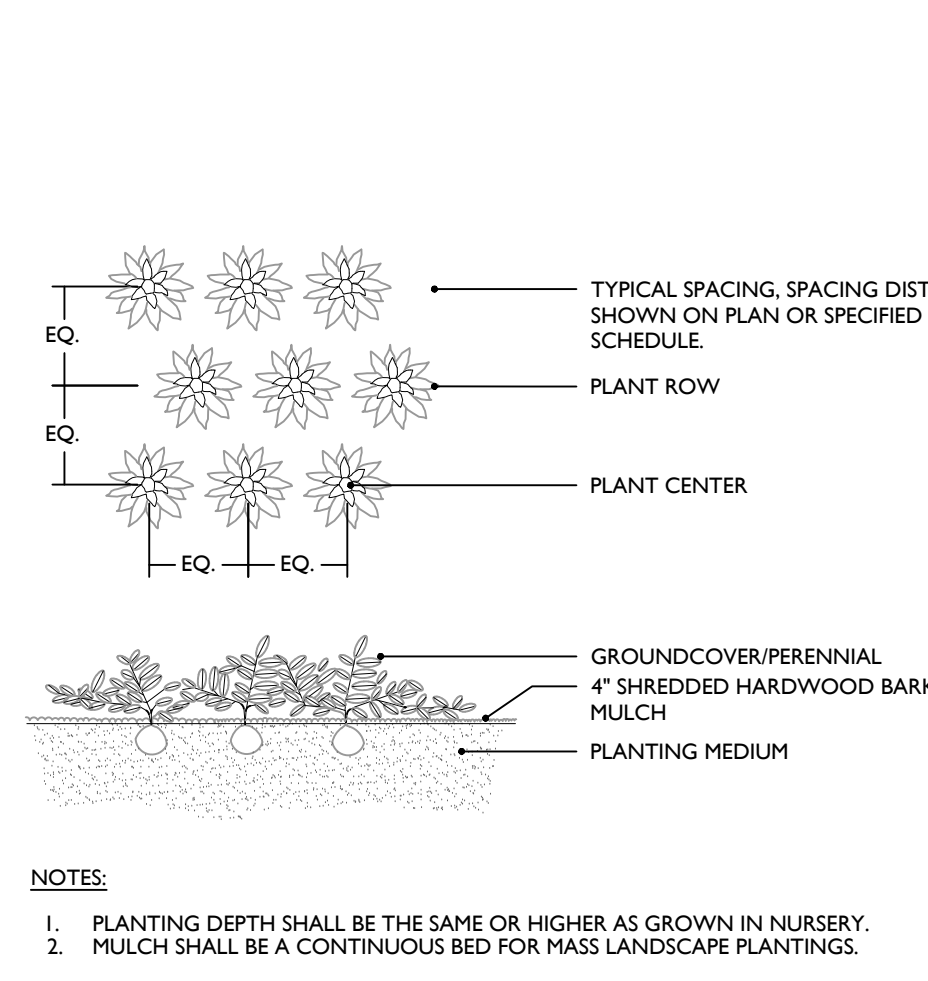


EVERGREEN TREE SLOPE PLANTING DETAIL

MULTI-LEADER TREE PLANTING DETAIL



ORNAMENTAL GRASS PLANTING DETAIL



GENERAL PLANT MAINTENANCE RECOMMENDATIONS:

- TREES, SHRUBS, PERENNIALS: FERTILIZATION: TREES AND SHRUBS: ONCE PER YEAR, USUALLY LATE FALL-EARLY WINTER... SOIL TESTING: ONCE PER YEAR FROM AT LEAST (3) AREAS ACROSS SITE... WEED CONTROL: MULCHED TREE RINGS, MULCHED SHRUB AND PERENNIAL BEDS... PRUNING: ANY TREE OR SHRUB PRUNING SHOULD BE IN ACCORDANCE WITH THE PRUNING SCHEDULE... MULCH: MULCH BEDS TO 4" IN DEPTH AS NOTED IN THE PLANTING DETAILS.

LAWN CARE

- FERTILIZATION: (2) TIMES A YEAR: GENERALLY SPRING AND FALL... MOWING: MOW WHEN TURF REACHES 2 1/2" TALL IN SPRING AND FALL... WEED CONTROL: (1) PRE-EMERGENT HERBICIDE APPLICATION IN MARCH TO MID-APRIL FOR CRABGRASS... PESTICIDE CONTROL: MONITOR THE SITE MONTHLY FOR DISEASE AND PEST INFESTATIONS.

MISCELLANEOUS LAWN CARE

- RESEED: RESEED ANY BARE LAWN AREAS IN SEPTEMBER THROUGH EARLY OCTOBER... DEFOLIATE: DEFOLIATE TYPICAL LAWN EVERY (2) YEARS IN EITHER EARLY SPRING OR FALL... LIME: APPLY LIME ANY TIME OF THE YEAR BUT ONLY IF A SOIL TEST SHOWS pH IS LOWER THAN 6.0. SOIL TESTS WILL GIVE SPECIFIC RECOMMENDATIONS FOR AMOUNT OF LIME NEEDED.

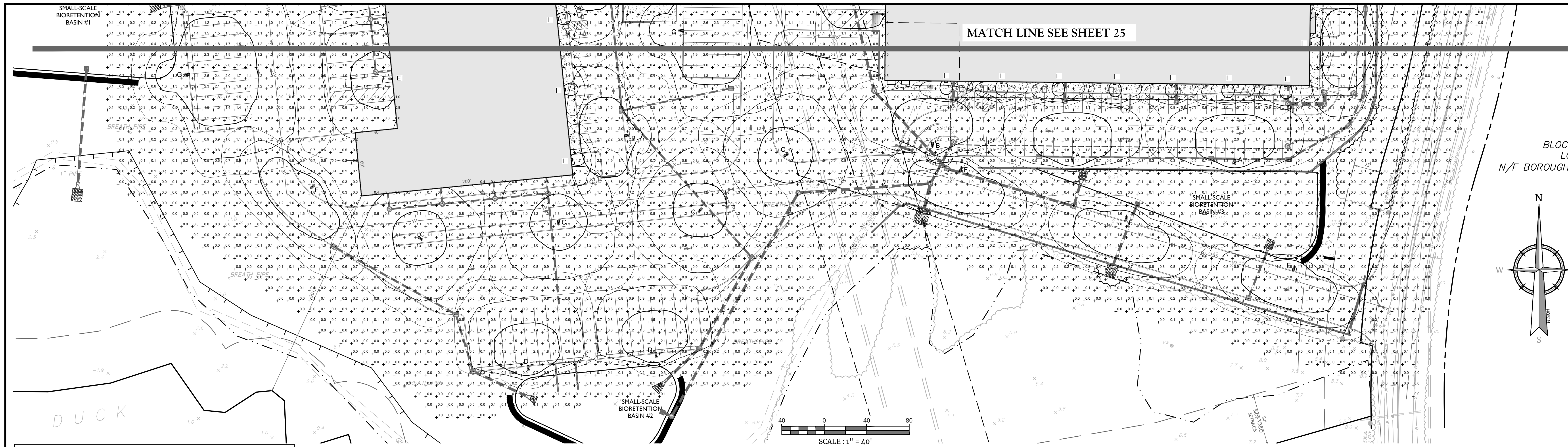
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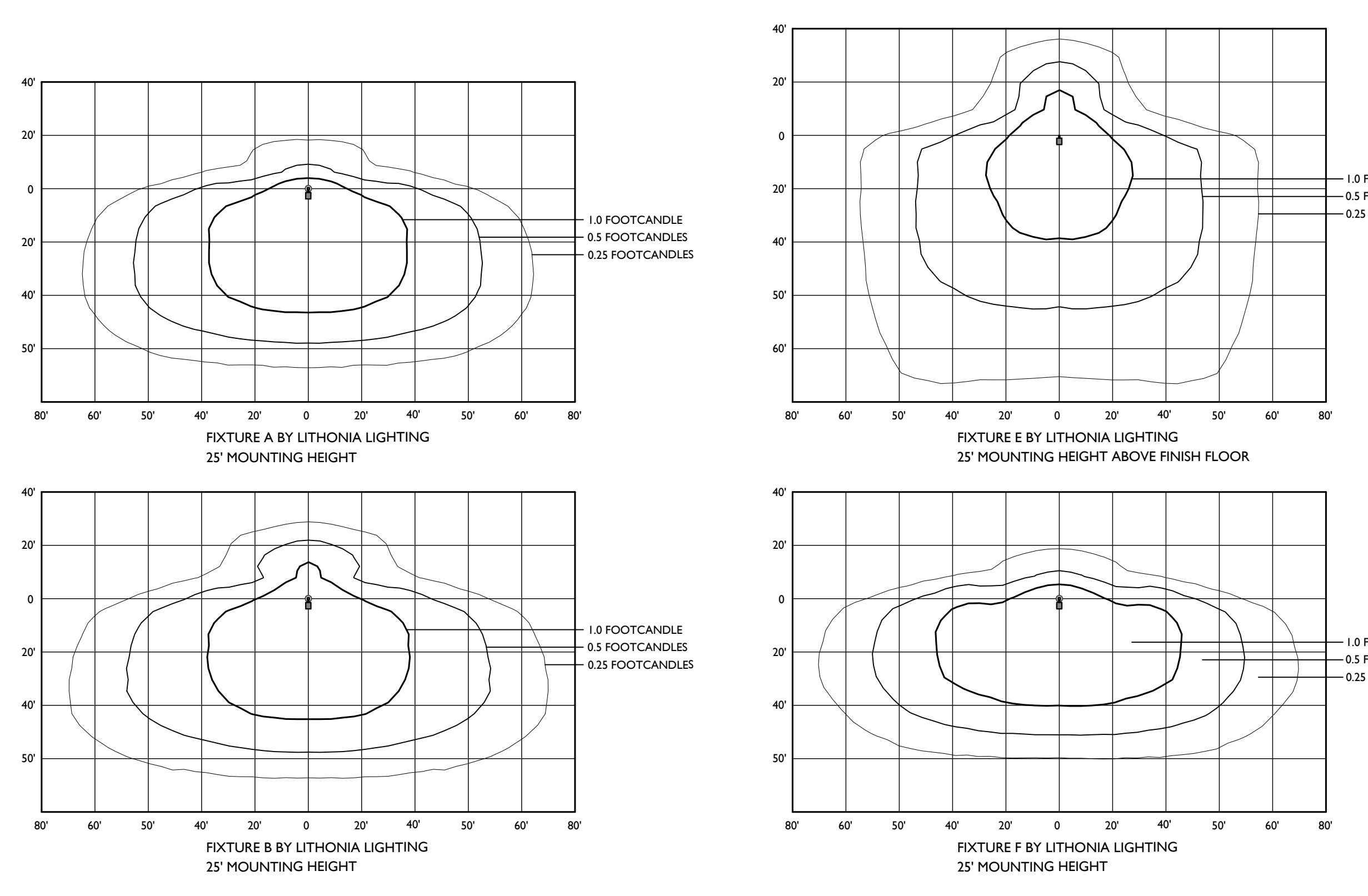
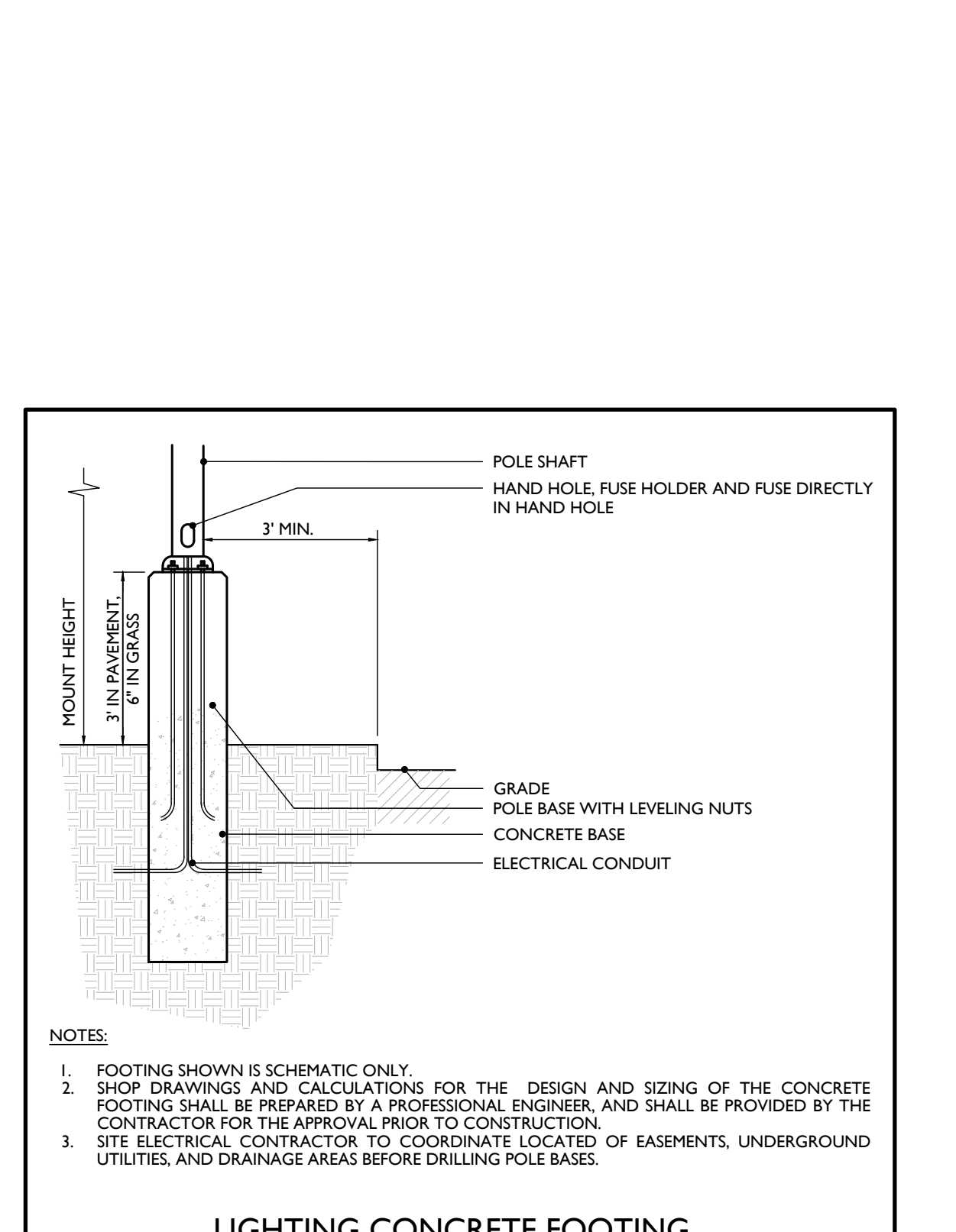
D-Series Size 1 LED Area Luminaire

Specifications
Effic: 100 lm/w
Length: 32.1" (819mm)
Width: 14.25" (361mm)
Height H1: 7.81" (199mm)
Height H2: 2.71" (68.8mm)
Height H3: 34.86" (885mm)

Introduction
The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into high performance, high efficacy, long-life luminaires.

Ordering Information
EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVLDT SPA NLTARZ PRHIN DDBXD

Order	Part	Color Temperature	Color Rendering	Finish	Mounting	Notes
DSX1 LED	P7	4000K	90	White	Recessed	Standard
DSX1 LED	P7	5000K	90	White	Recessed	Standard
DSX1 LED	P7	6000K	90	White	Recessed	Standard



LIGHTING LEGEND

- POLE MOUNT LUMINAIRE
- WALL MOUNT LUMINAIRE
- WALL MOUNT LUMINAIRE

GENERAL NOTES:

- THIS PLAN IS TO BE USED FOR LIGHTING PURPOSES ONLY.

WEDGE LED Architectural Wall Sconce

Specifications
Depth D1: 1.5"
Depth D2: 1.5"
Height: 11.5"
Width (without optional): 3.55"

Introduction
The WEDGE LED family is designed to meet specific architectural lighting needs in a variety of applications. The clean, rectangular design comes in four sizes with mounting packages ranging from 1,200 to 2,500 lumens, providing a true, wide-angle solution. Equipped with rugged AR wireless controls, the WEDGE family provides additional energy savings and code compliance.

Ordering Information
EXAMPLE: WJ02Z LED P3 40K 80CRI VF MVLDT SRM DDBXD

Order	Part	Color Temperature	Color Rendering	Finish	Mounting	Notes
WJ02Z LED	P3	4000K	80	White	Recessed	Standard
WJ02Z LED	P3	5000K	80	White	Recessed	Standard
WJ02Z LED	P3	6000K	80	White	Recessed	Standard

SSA LIGHT POLE

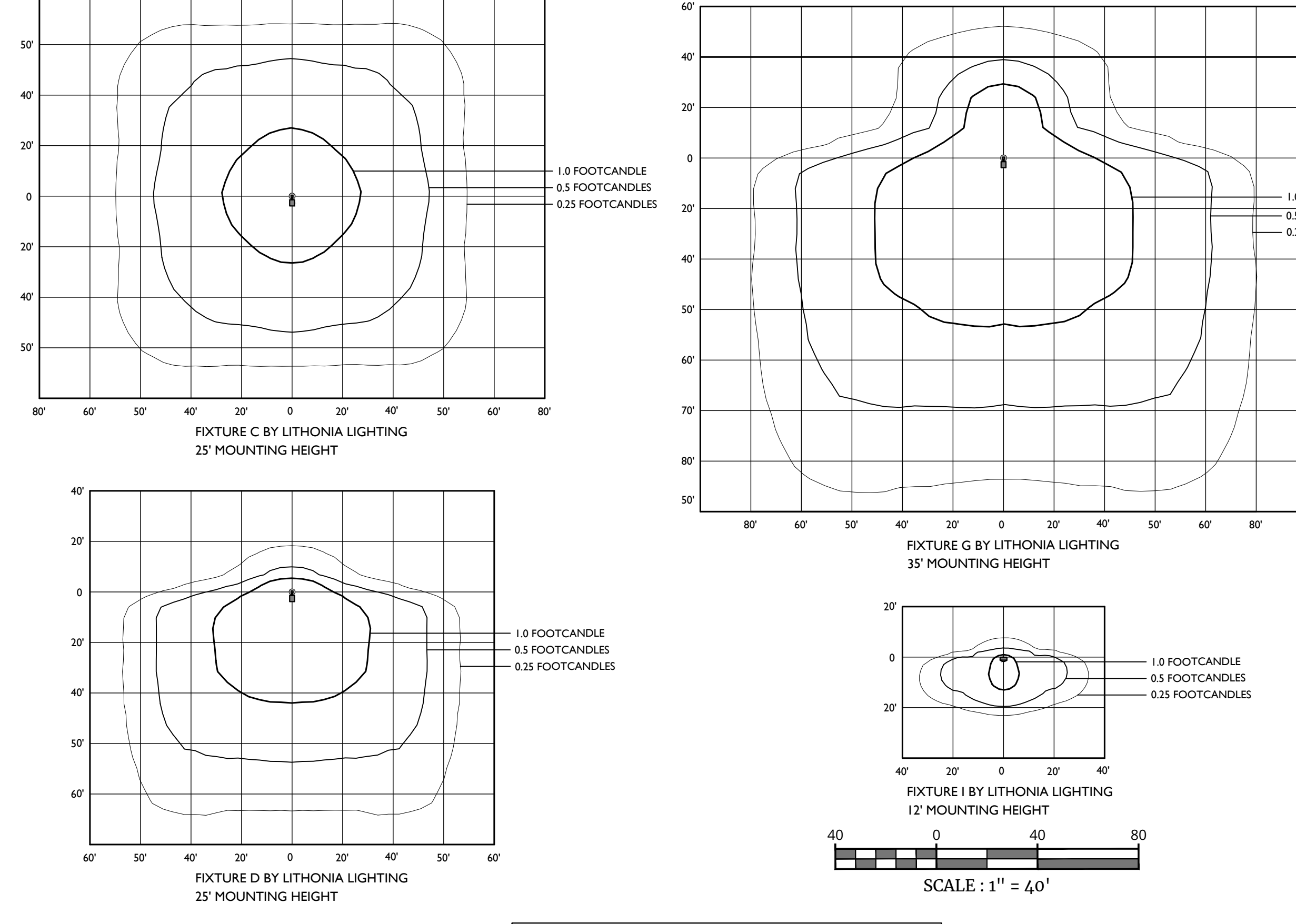
FEATURES & SPECIFICATIONS

ANCHOR BASE POLE

ANCHOR BASE POLE

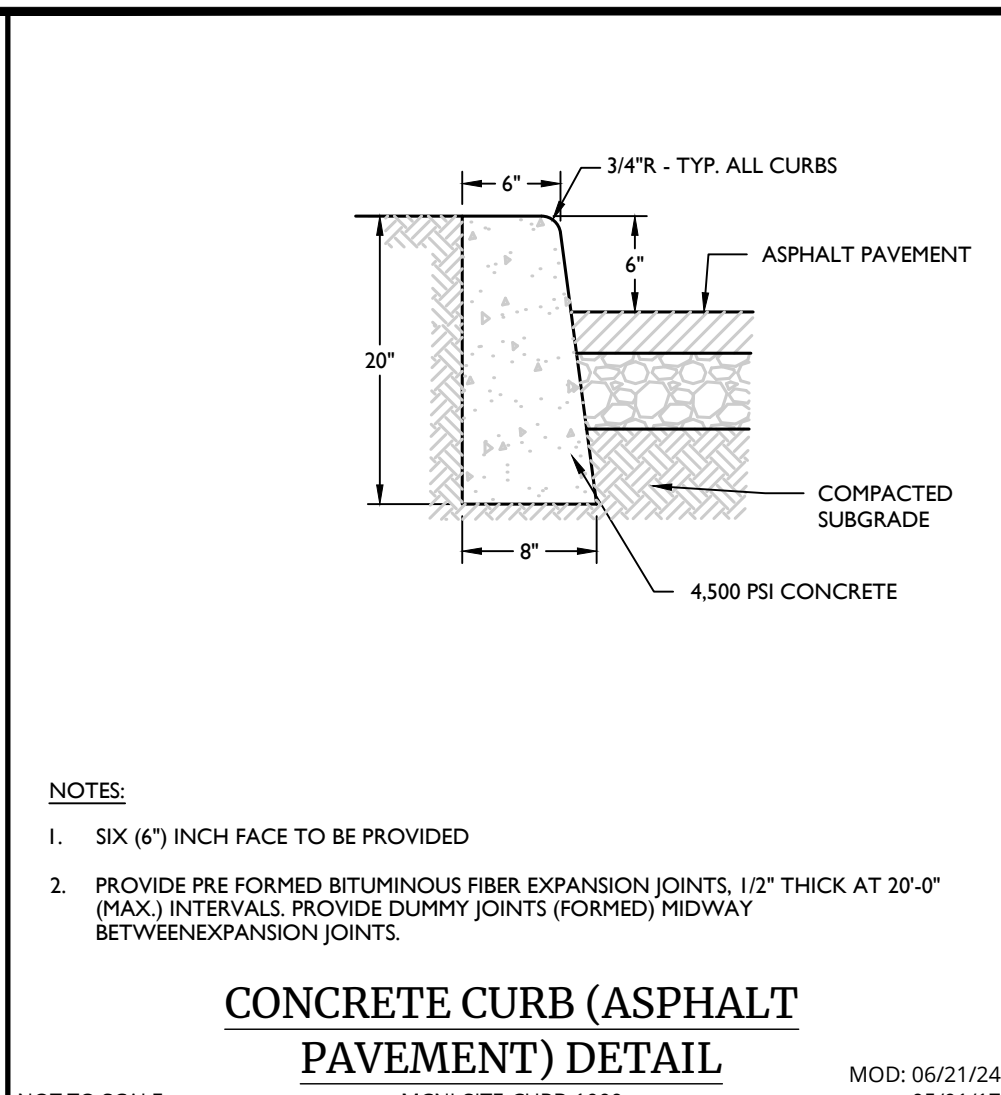
ANCHOR BASE POLE

ANCHOR BASE POLE

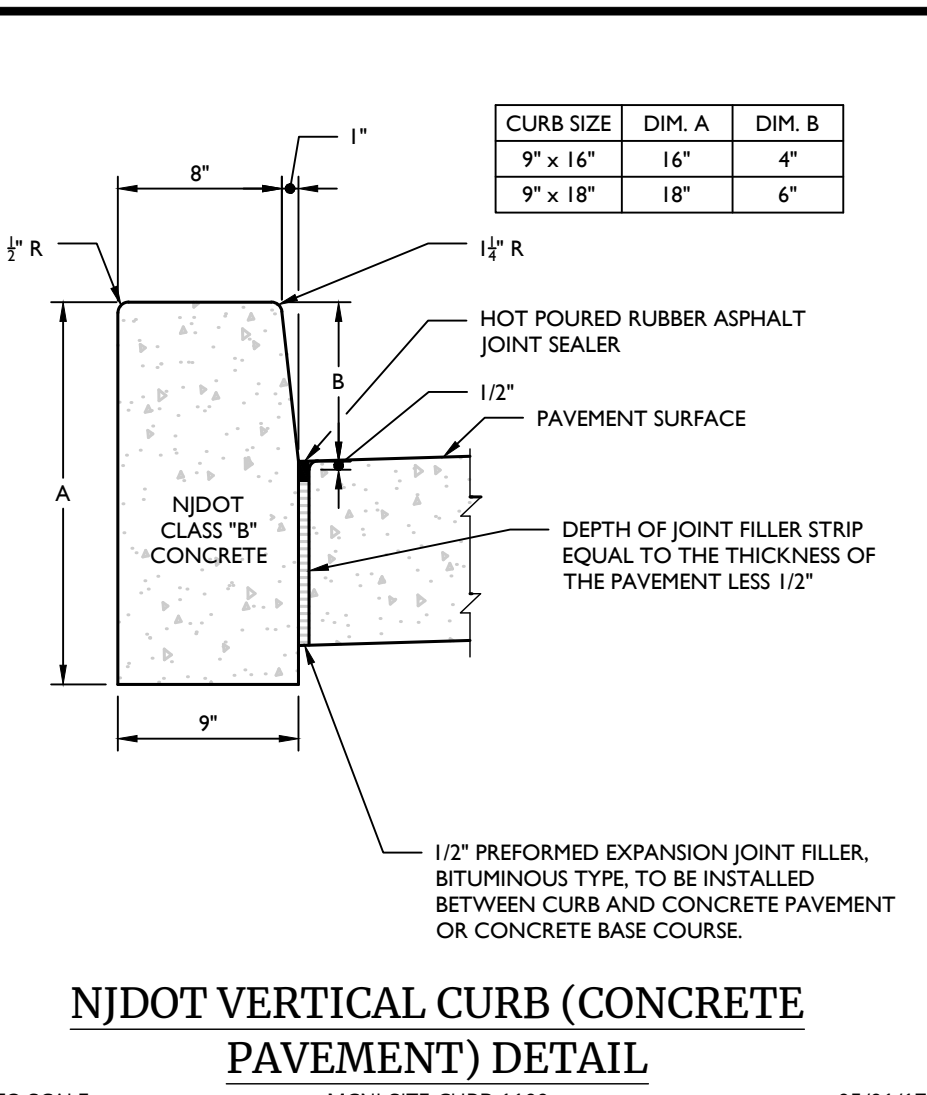


Lighting Schedule

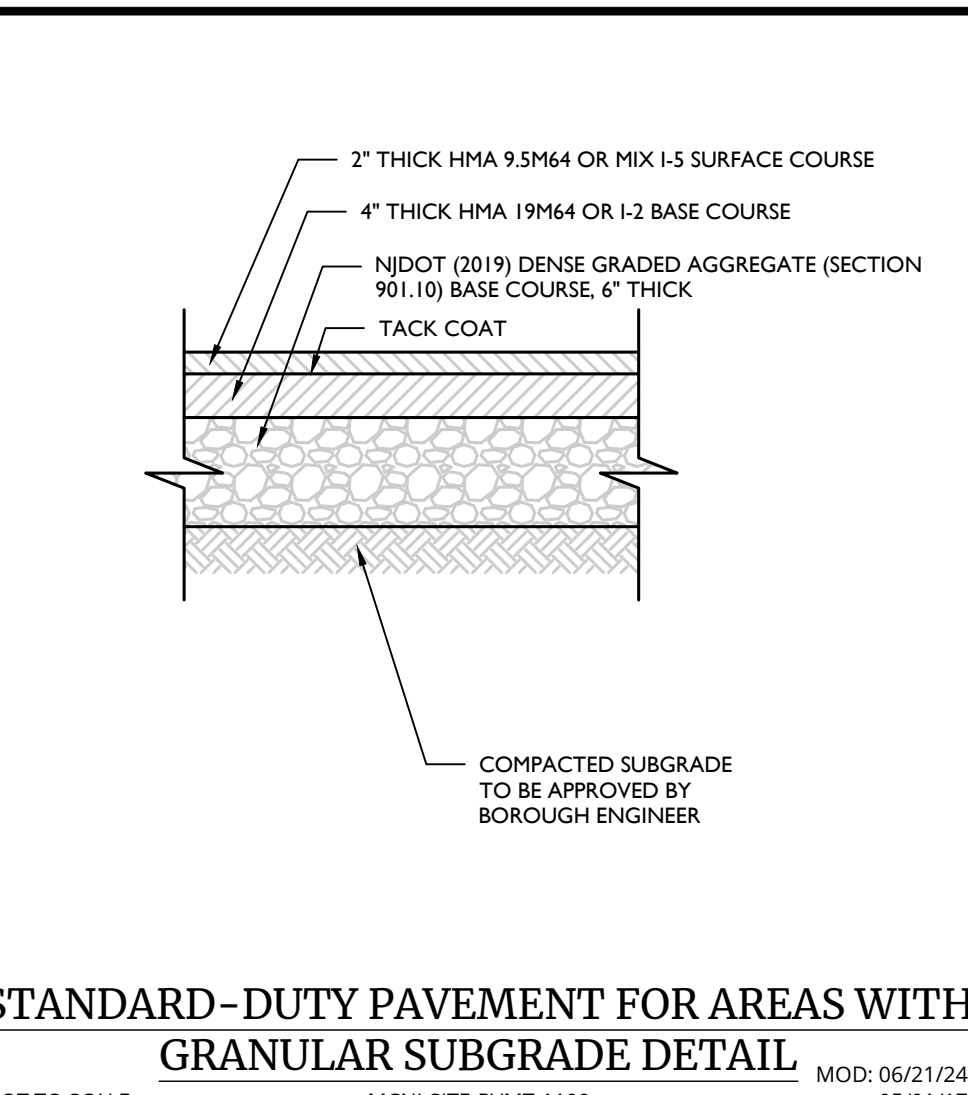
Symbol	Label	Pole & Fixture Color	Mounting Height	Quantity	Manufacturer	Catalog Number	Description	Frame	Lumens Per Lamp	Light Loss Factor	Wattage
A	A	Black	25'	4	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M HS	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 3 Medium House-side Shield	DSX1 LED P3 30K 70CRI T3M HS	11447	0.95	102.1727
B	B	Black	25'	5	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 3 Medium	DSX1 LED P3 30K 70CRI T3M HS	13206	0.95	102.17
C	C	Black	25'	5	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 5 Medium	DSX1 LED P3 30K 70CRI T3M HS	13990	0.95	102.17
D	D	Black	25'	2	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M HS	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Forward Throw House-side Shield	DSX1 LED P3 30K 70CRI T3M HS	11518	0.95	102.1727
E	E	Black	25' Above Finish Floor	4	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Forward Throw	DSX1 LED P3 30K 80CRI T3M HS	13498	0.95	102.17
F	F	Black	25'	13	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M HS	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 2 Medium House-side Shield	DSX1 LED P3 30K 70CRI T3M HS	11327	0.95	102.1727
G	G	Black	35'	5	Lithonia Lighting	DSX1 LED P9 30K 80CRI T3M	D-Series Size 1 Area Luminaire P9 Performance Package 3000K CCT 70 CRI Type 2 Medium	DSX1 LED P9 30K 80CRI T3M HS	30271	0.95	277.07
H	H	Black	30' Above Finish Floor	3	Lithonia Lighting	DSX1 LED P9 30K 80CRI T3M	D-Series Size 1 Area Luminaire P9 Performance Package 3000K CCT 70 CRI Type 2 Medium	DSX1 LED P9 30K 80CRI T3M HS	30271	0.95	277.07
I	I	Black	12'	19	Lithonia Lighting	WJ02Z LED P1 30K 70CRI T3M	WJ02Z LED WITH P1 PERFORMANCE PACKAGE, 3000K CCT 70 CRI Type 2 Medium OPTIC	WJ02Z LED P1 30K 70CRI T3M HS	1326	0.95	11.1668
J	J	Black	25'	1	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M HS	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 3 Medium House-side Shield	DSX1 LED P3 30K 70CRI T3M HS	11327	0.95	204.3464



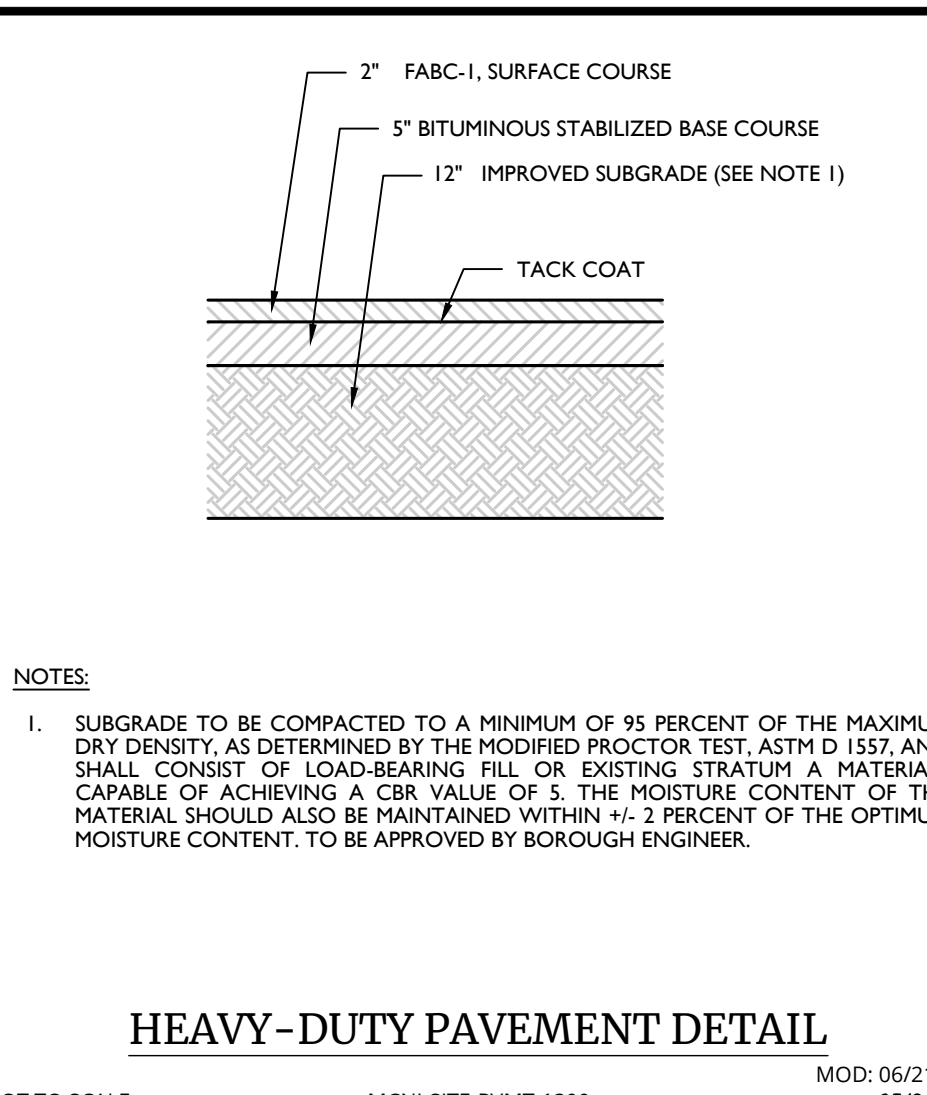
CONCRETE CURB (ASPHALT PAVEMENT) DETAIL
 MCJN-SITE-CURB-1000
 MOD: 06/21/24
 05/01/17



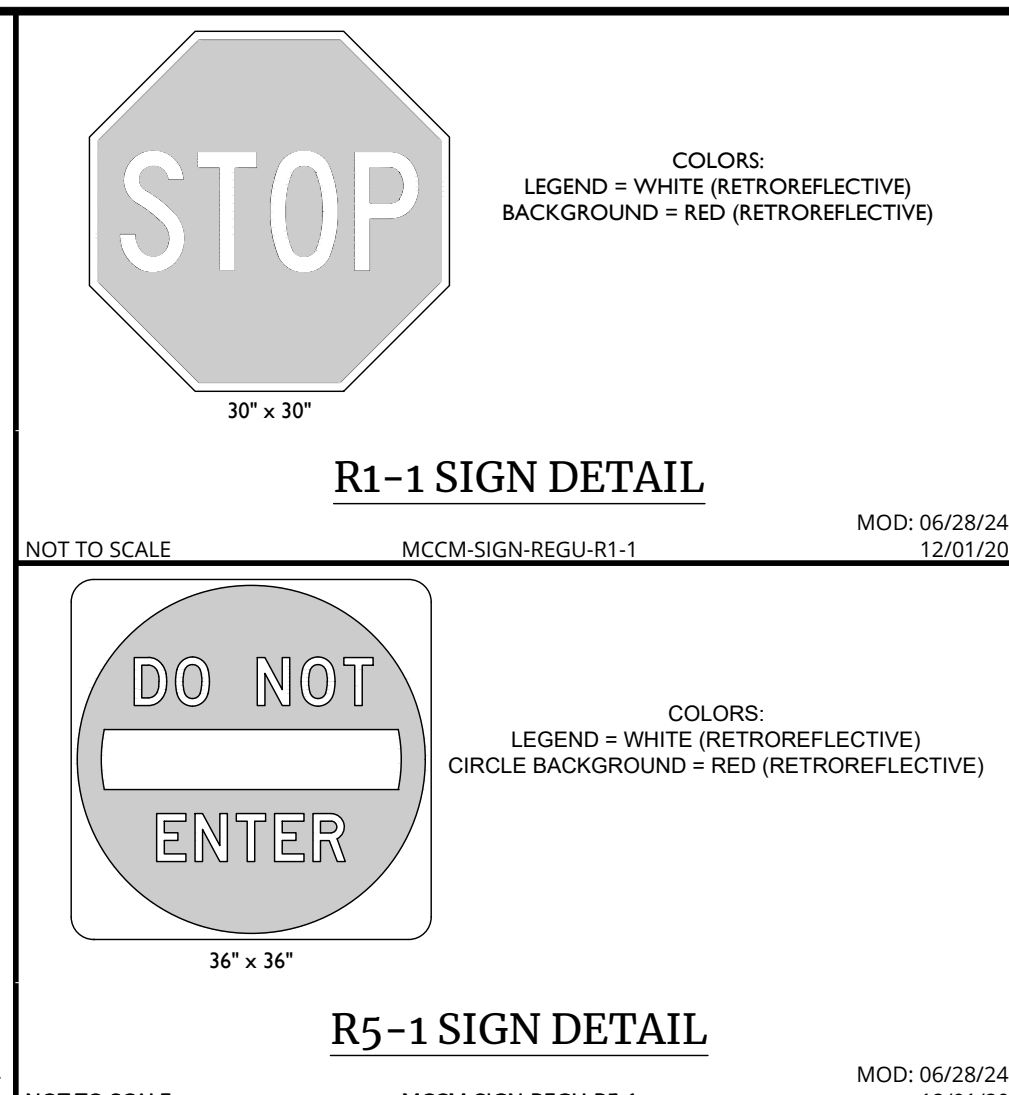
NJDOT VERTICAL CURB (CONCRETE PAVEMENT) DETAIL
 MCJN-SITE-CURB-1100
 MOD: 06/21/24
 05/01/17



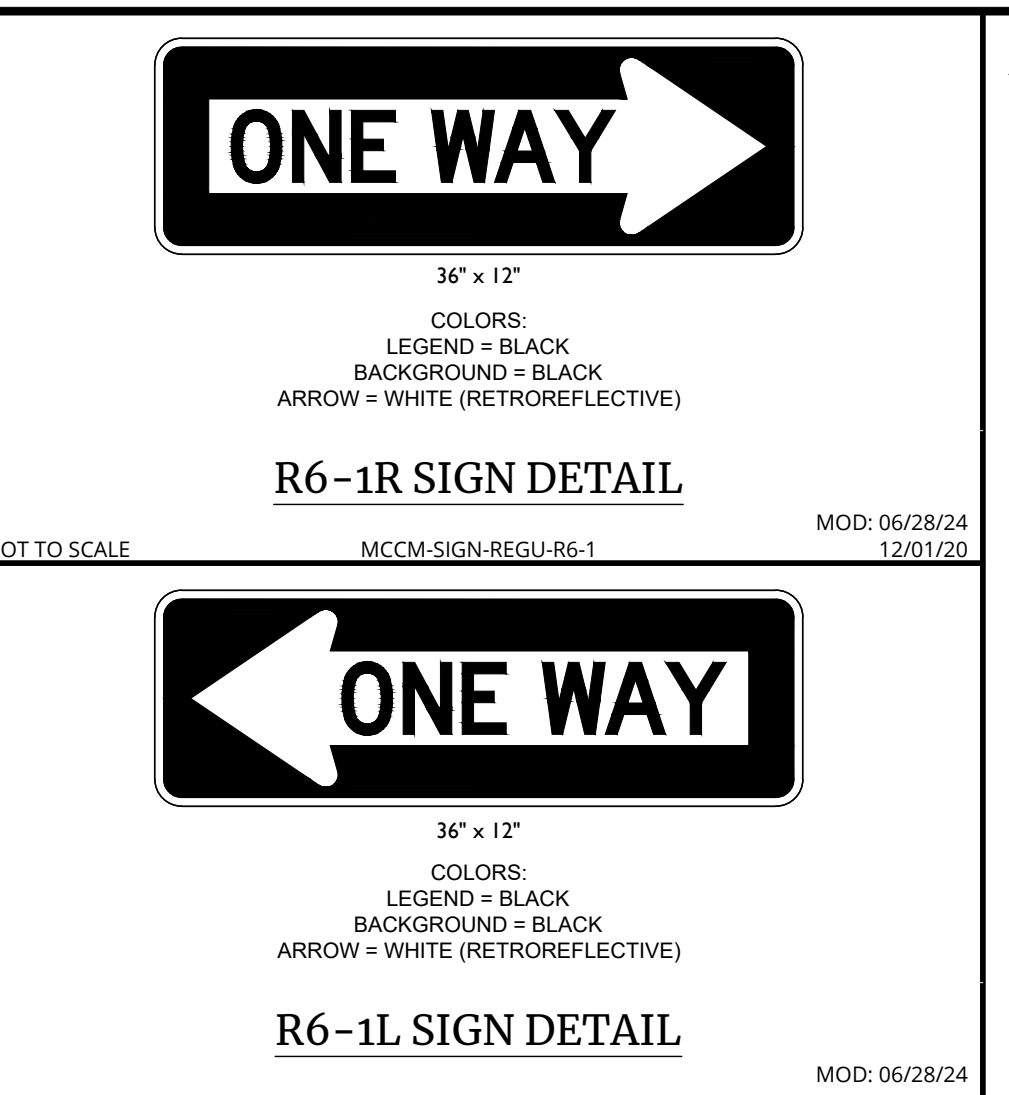
STANDARD-DUTY PAVEMENT FOR AREAS WITH GRANULAR SUBGRADE DETAIL
 MCJN-SITE-PVMT-1100
 MOD: 06/21/24
 05/01/17



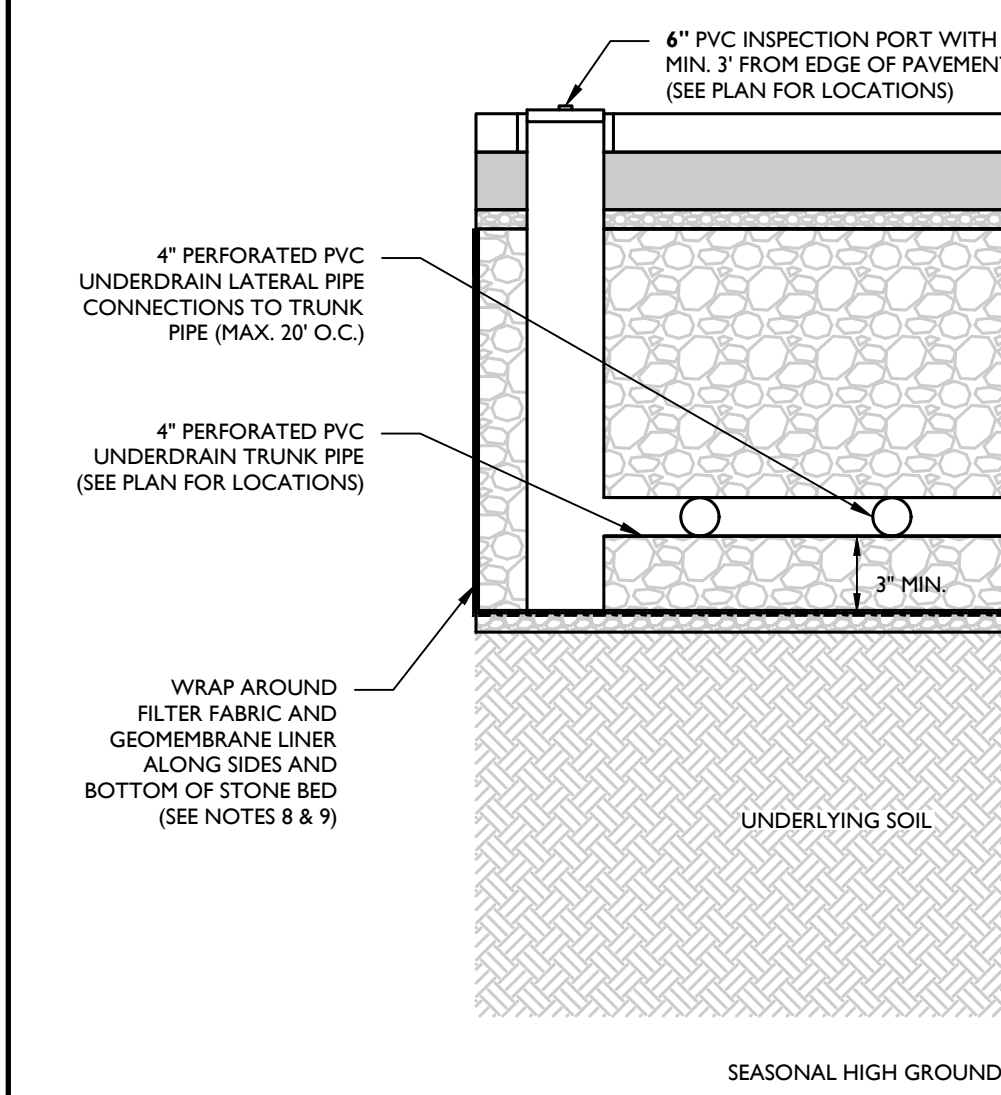
HEAVY-DUTY PAVEMENT DETAIL
 MCJN-SITE-PVMT-1300
 MOD: 06/21/24
 05/01/17



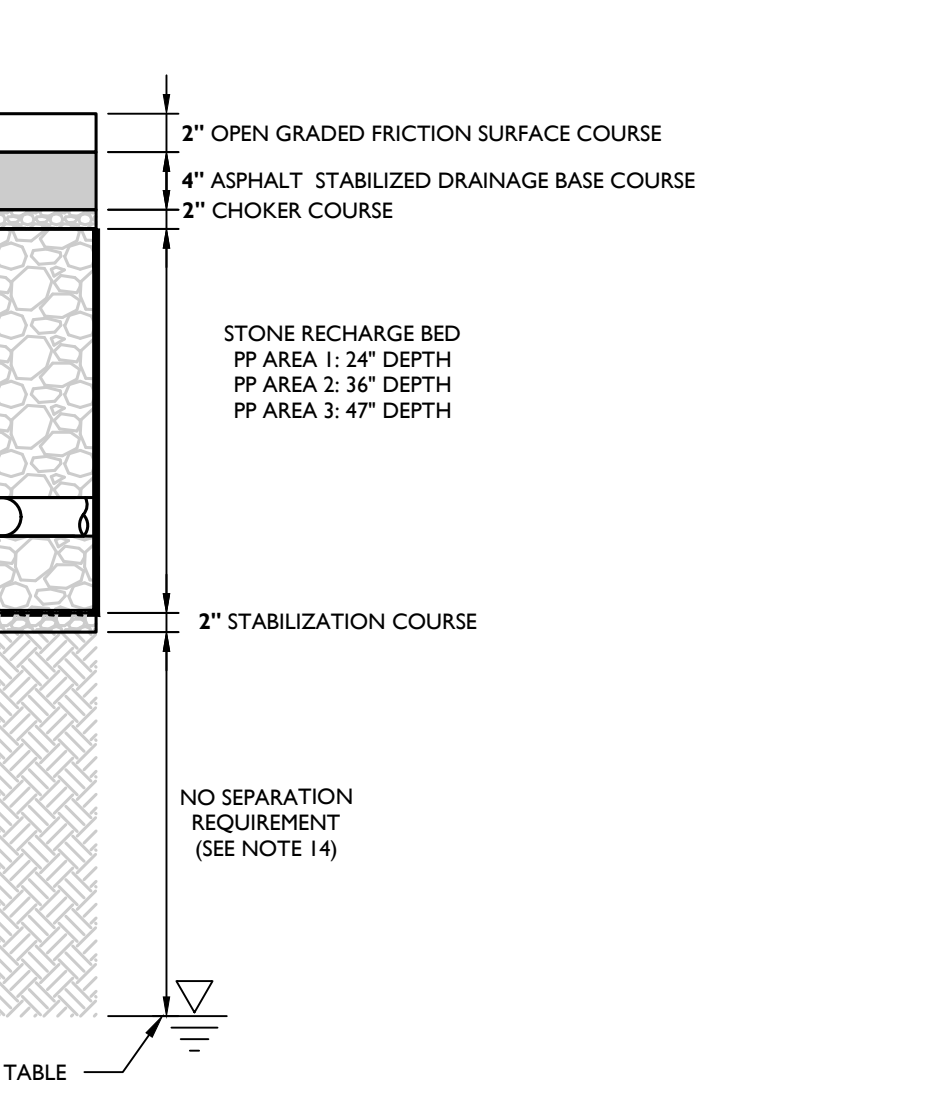
R1-1 SIGN DETAIL
 MCCM-SIGN-REGU-R1-1
 MOD: 06/28/24
 12/01/20



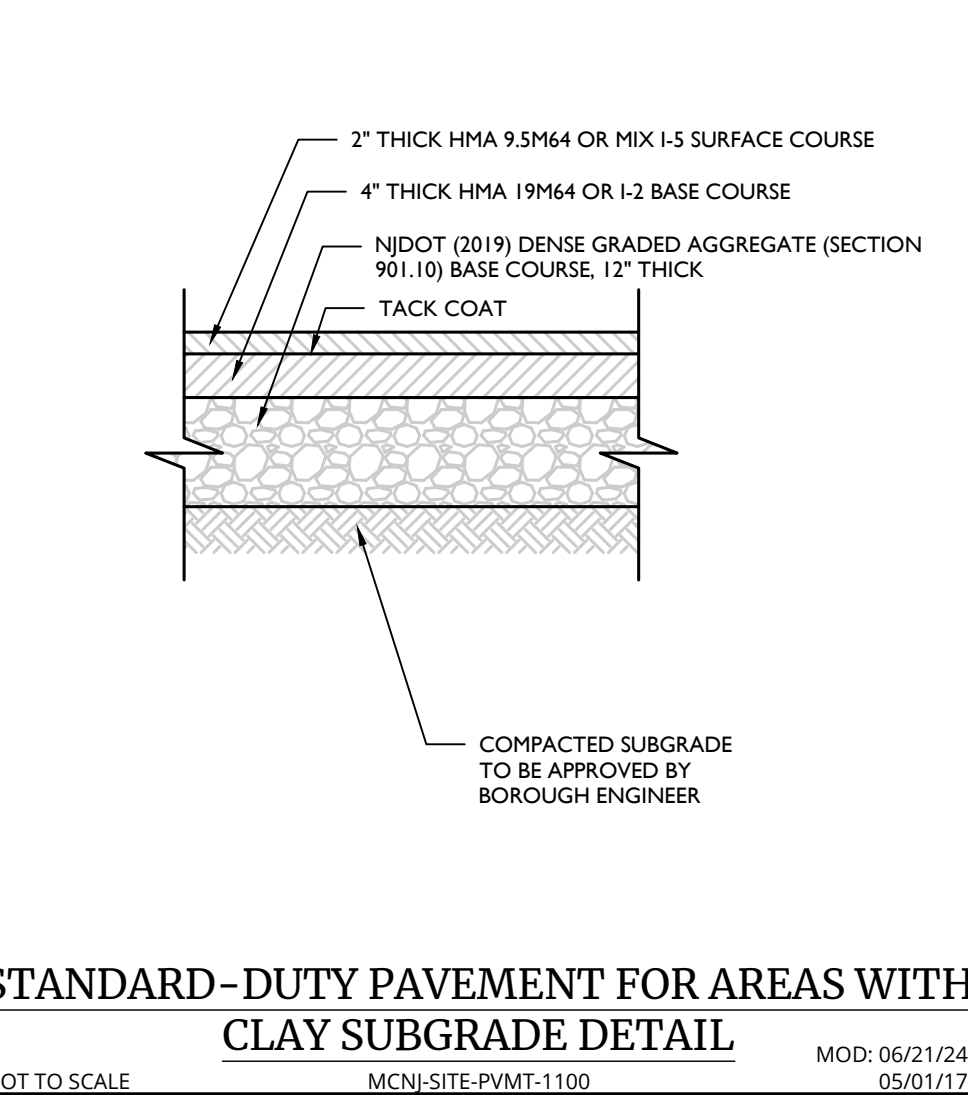
R6-1R SIGN DETAIL
 MCCM-SIGN-REGU-R6-1
 MOD: 06/28/24
 12/01/20



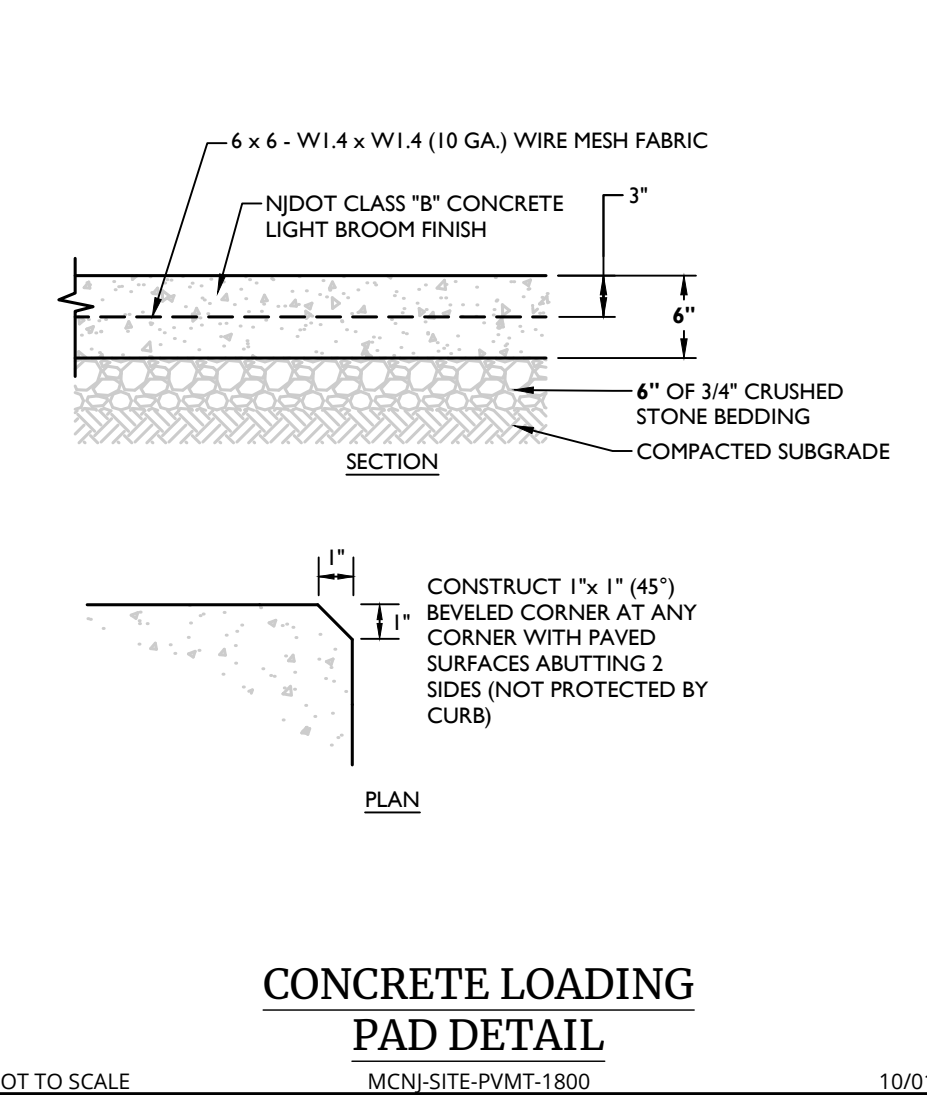
CONCRETE CURB (CONCRETE PAVEMENT) DETAIL
 MCJN-SITE-CURB-1200
 MOD: 06/21/24
 05/01/17



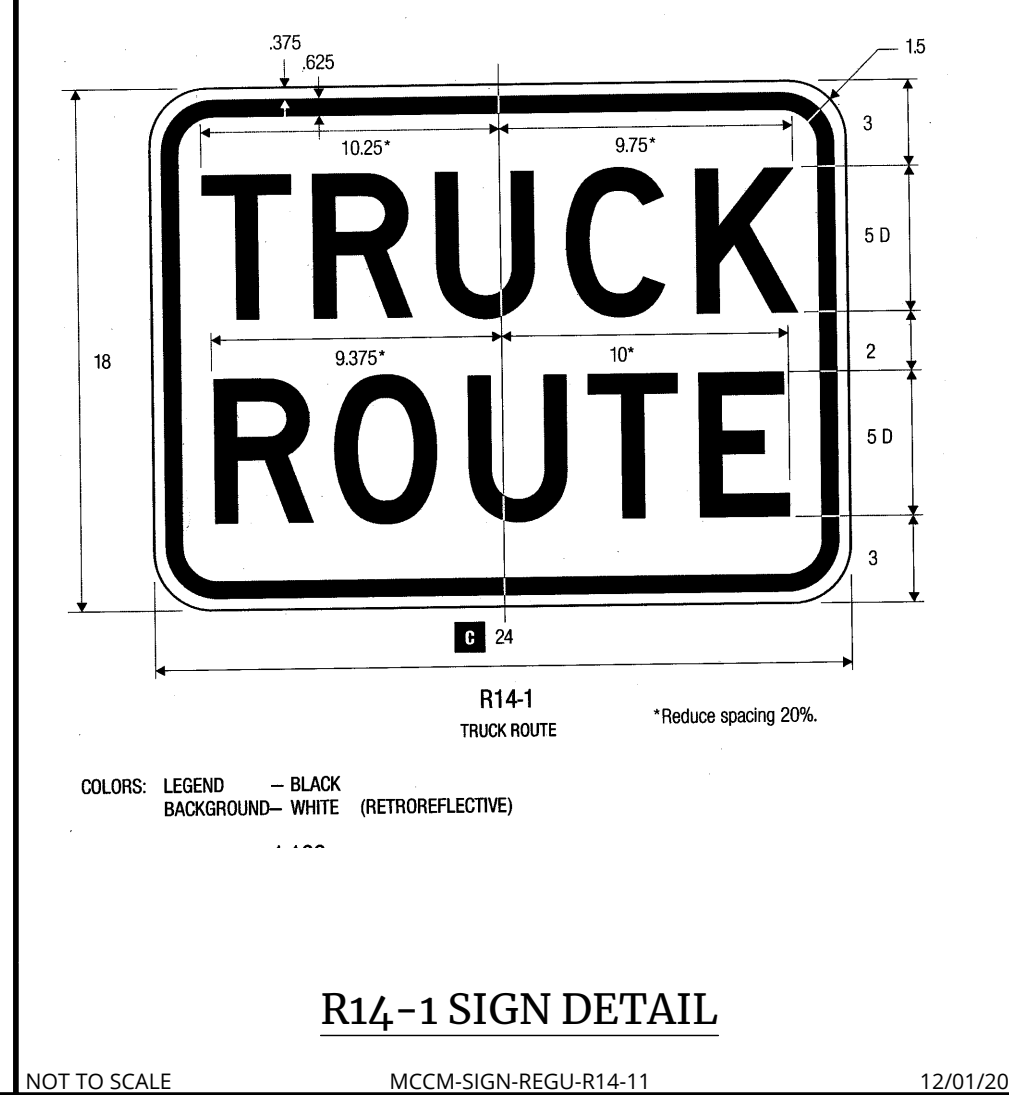
STANDARD-DUTY PAVEMENT FOR AREAS WITH CLAY SUBGRADE DETAIL
 MCJN-SITE-PVMT-1100
 MOD: 06/21/24
 05/01/17



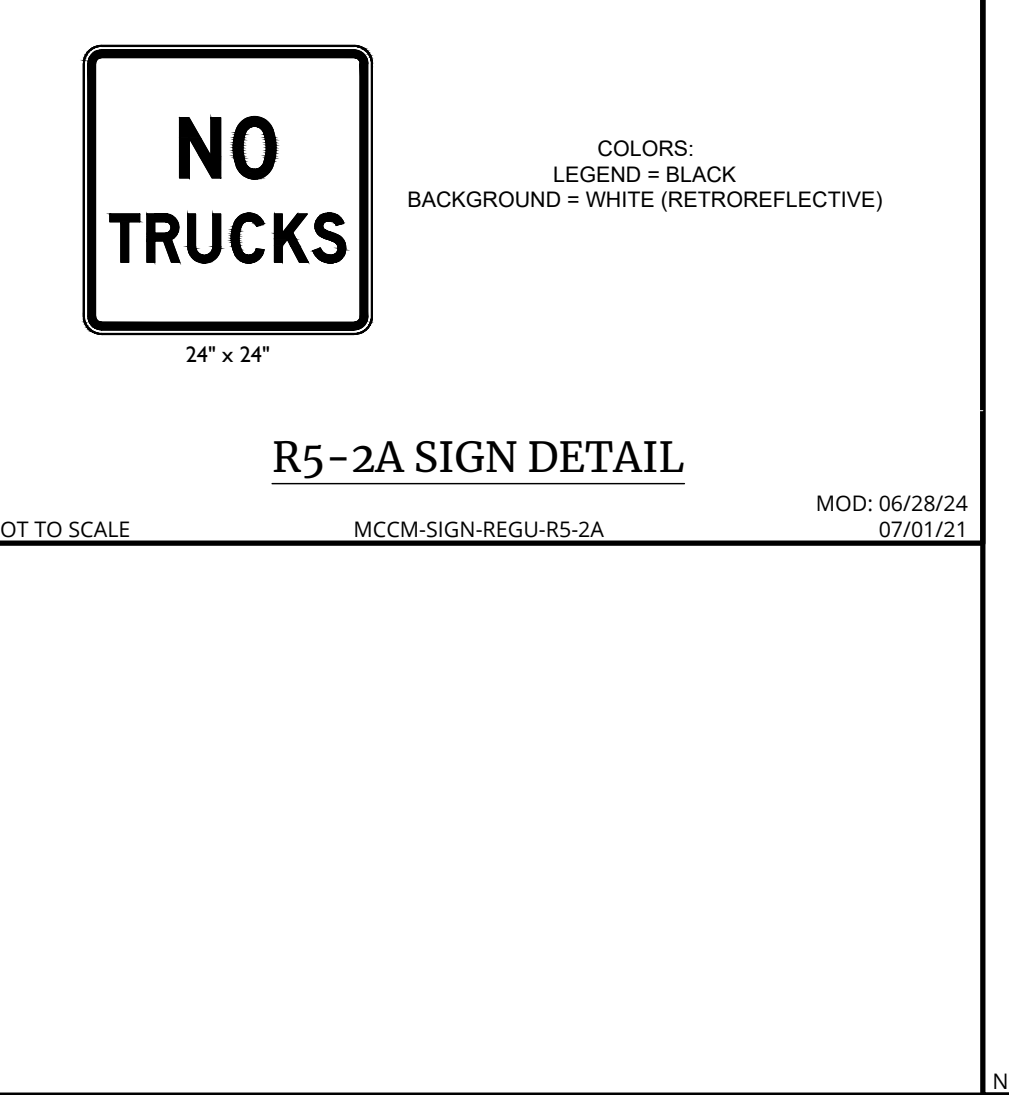
CONCRETE LOADING PAD DETAIL
 MCJN-SITE-PVMT-1800
 MOD: 10/01/18
 05/01/17



R5-1 SIGN DETAIL
 MCCM-SIGN-REGU-R5-1
 MOD: 06/28/24
 12/01/20



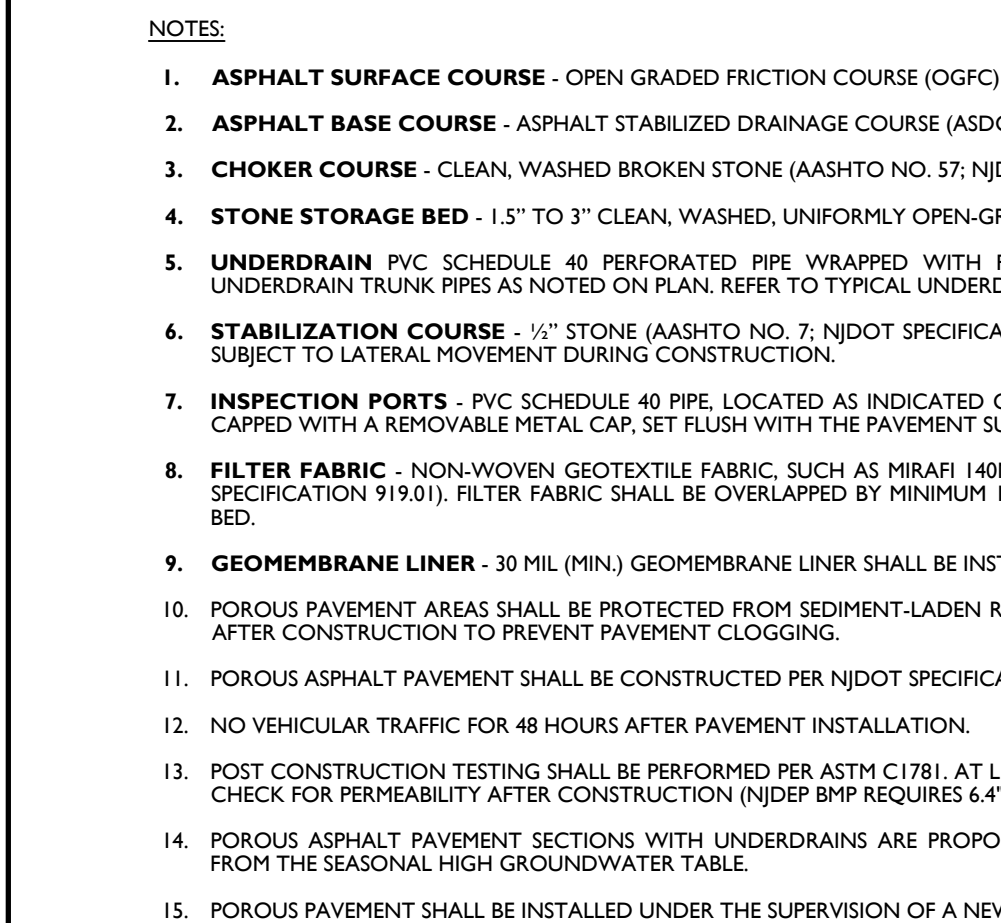
R14-1 SIGN DETAIL
 MCCM-SIGN-REGU-R14-1
 MOD: 06/28/24
 12/01/20



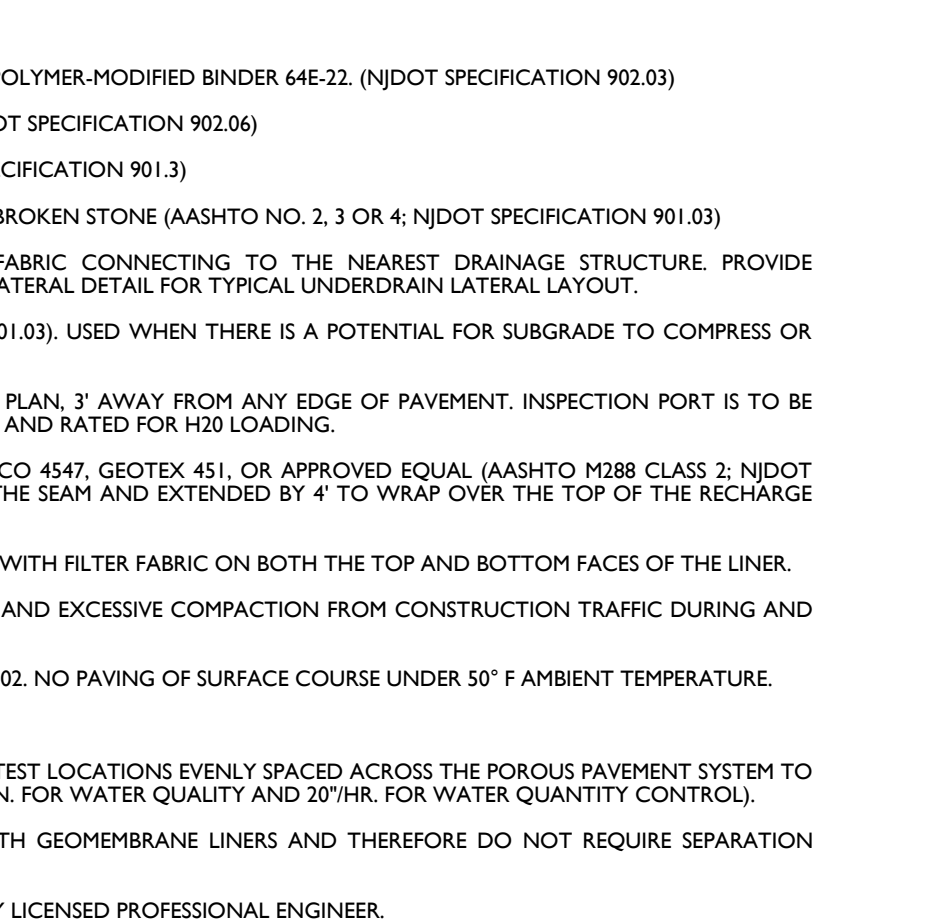
R5-2A SIGN DETAIL
 MCCM-SIGN-REGU-R5-2A
 MOD: 06/28/24
 07/01/21

CURB RAMP NOTES

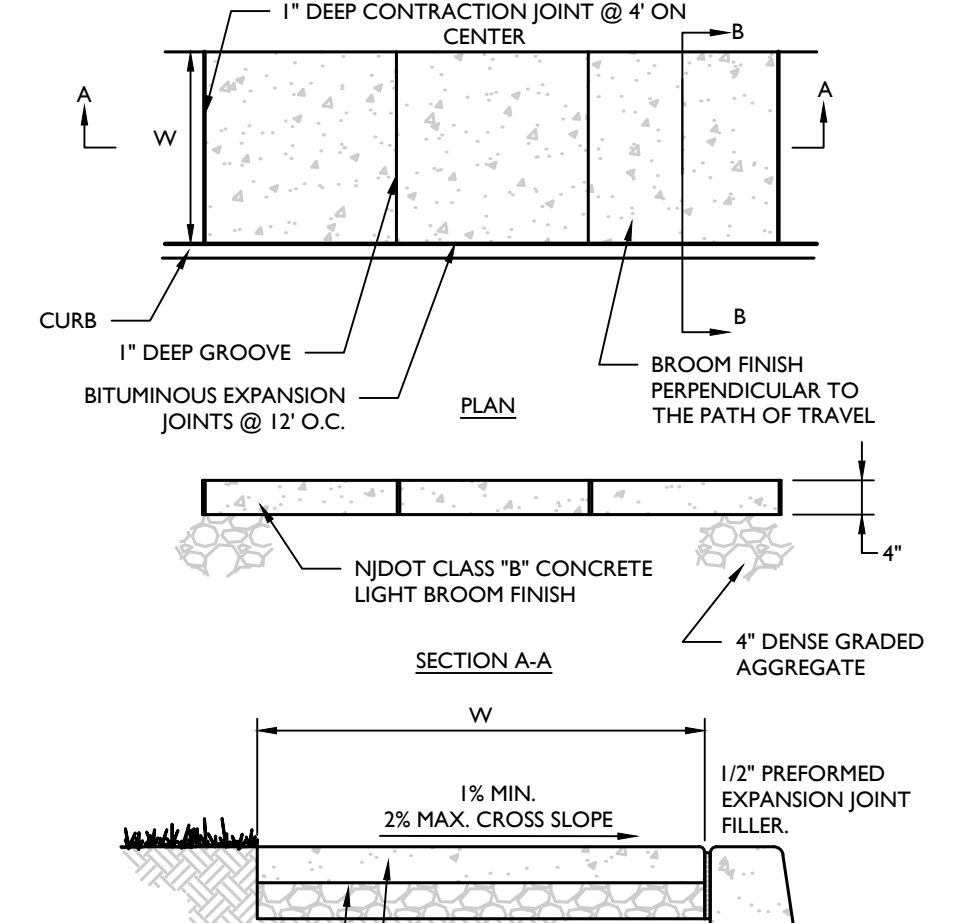
- CONTRACTOR MUST PREPARE SHOP DRAWINGS OF EACH CURB RAMP FOR SUBMISSION AND APPROVAL OF THE UNDERSIGNED PROFESSIONAL AND THE MUNICIPAL COUNTY STATE OR OTHER AGENCY'S ENGINEER HAVING JURISDICTION. DEVIATIONS FROM THE CURB RAMP DETAILS REQUIRE WRITTEN APPROVAL OF THE UNDERSIGNED PROFESSIONAL AND THE MUNICIPAL COUNTY STATE OR OTHER AGENCY'S ENGINEER HAVING JURISDICTION.
- ACCESSIBLE RAMPS:
 - ON-SITE RAMP OR CURB RAMPS MUST BE INSTALLED IN CONFORMANCE WITH THE CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE AND MUST ALSO MEET OTHER APPLICABLE LOCAL AND STATE REQUIREMENTS IN EFFECT AT THE DATE OF CONSTRUCTION.
 - PUBLIC RIGHT OF WAY ACCESSIBLE OR CURB RAMPS MUST BE INSTALLED PURSUANT WITH THE CURRENT UNITED STATES ACCESS BOARD "ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY" (PROWAG).
- CURB RAMP SLOPE AS CONSTRUCTED IN THE DIRECTION OF TRAVEL CANNOT EXCEED 12H:1V. RAMP SLOPES OF 14H:1V ARE THE PREFERRED SLOPE TO MAINTAIN A LEVEL OF CONSTRUCTION TOLERANCE. MINIMUM CURB RAMP CROSS-SLOPE IS TO BE 0.50%, MAXIMUM CANNOT EXCEED 2.00%.
- CURB RAMP SIDE FLARE SLOPES ARE TO BE 14H:1V DESIRABLE, 12H:1V MAXIMUM, BUT MAY BE 10H:1V UPON APPROVAL OF THE ENGINEER, WHERE SIDE FLARES ARE NOT REQUIRED, PROVIDE AN 18" CURB TAPER TO THE FLUSH CURB PER THE DETAIL.
- LANDING AREA AT THE TOP AND BOTTOM OF THE CURB RAMP (AKA CLEAR OR TURNING SPACE) MUST BE KEPT CLEAR OF OBSTRUCTIONS. THE LANDING AREA IS TO BE 4' X 4' MINIMUM AND MATCH THE WIDTH OF THE CURB RAMP. INCREASED THE DEPTH OF MINIMUM LANDING AREA TO 5' FEET IF CONSTRAINED AT THE BACK OF THE SIDEWALK.
- THE LANDING AREA MUST HAVE AN ABSOLUTE MINIMUM SLOPE OF 0.5% AND A MAXIMUM SLOPE OF 2%, WHEREAS 3:20 TO 1.5% IS THE DESIRED DESIGN SLOPE IN THE DIRECTION OF TRAVEL AND FOR THE CROSS-SLOPE.
- SIDEWALK CROSS SLOPE MUST BE A MINIMUM OF 1% AND MAXIMUM 2%, WHEREAS 1.5% IS THE DESIRED DESIGN CROSS SLOPE. SIDEWALK BEYOND LANDING AREA MUST HAVE A MINIMUM 1% TO MAXIMUM 5% OF LONGITUDINAL SLOPE IN THE DIRECTION OF TRAVEL AND A 1% TO 2% MAX. CROSS-SLOPE.
- FLUSH CURB AT CURB RAMP MUST BE MINIMUM 4' WIDE AND FLUSH WITH PAVEMENT. THE SEGMENT OF FLUSH CURB MUST BE MADE WITH CONCRETE CURB REGARDLESS OF THE CURB MATERIAL USED THROUGHOUT THE SITE.
- GUTTER SLOPE ALONG CURB RAMP MUST MAINTAIN POSITIVE DRAINAGE WITH A 1.0% TO 1.5% GUTTER SLOPE PREFERRED, WHEREAS 0.5% AS THE ABSOLUTE MINIMUM AND 2.0% IS MAXIMUM ALONG THE LENGTH OF THE FLUSH CURB.
- CROSSWALKS AND PAVEMENT MARKINGS MUST BE INSTALLED AS DENOTED ON SITE PLAN. CURB RAMP MUST BE WHOLLY CONTAINED WITHIN THE CROSSWALK CROSSING.
- THE RAMP SURFACE MUST HAVE A SLIP RESISTANT, BROOM FINISH PERPENDICULAR TO THE PATH OF TRAVEL.
- CONCRETE EXPANSION JOINTS MUST HAVE A FIRM SURFACE WITH 3" BLENDED CONCRETE EDGES. THE JOINT SURFACE SHALL NOT BE MORE THAN 1/2" BELOW THE ADJOINING CONCRETE SURFACE.
- DETECTABLE WARNING SURFACES ARE TO BE PROVIDED AT CURB RAMPS, BLENDED TRANSITION AT PEDESTRIAN STREET CROSSINGS AND PEDESTRIAN REFUGE ISLANDS WHEN THESE ARE WITHIN THE PUBLIC RIGHT-OF-WAY, AND WHERE AS SHOWN ON THE PLANS.
- SEE SEPARATE DETAILS FOR "DETECTABLE WARNING SURFACE" AND "CURB RAMP SECTIONS".



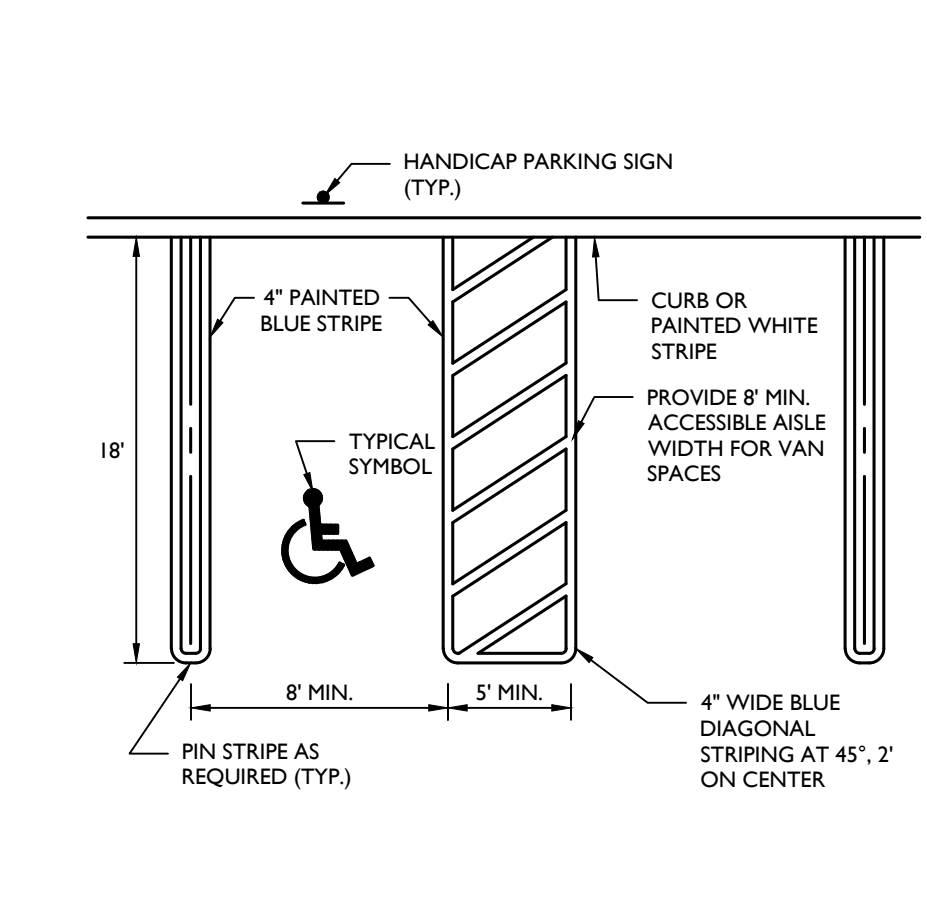
POROUS ASPHALT PAVEMENT DETAIL (WITH UNDERDRAIN AND LINER)
 MCJN-SITE-PVMT-1500
 MOD: 03/01/24
 06/01/19



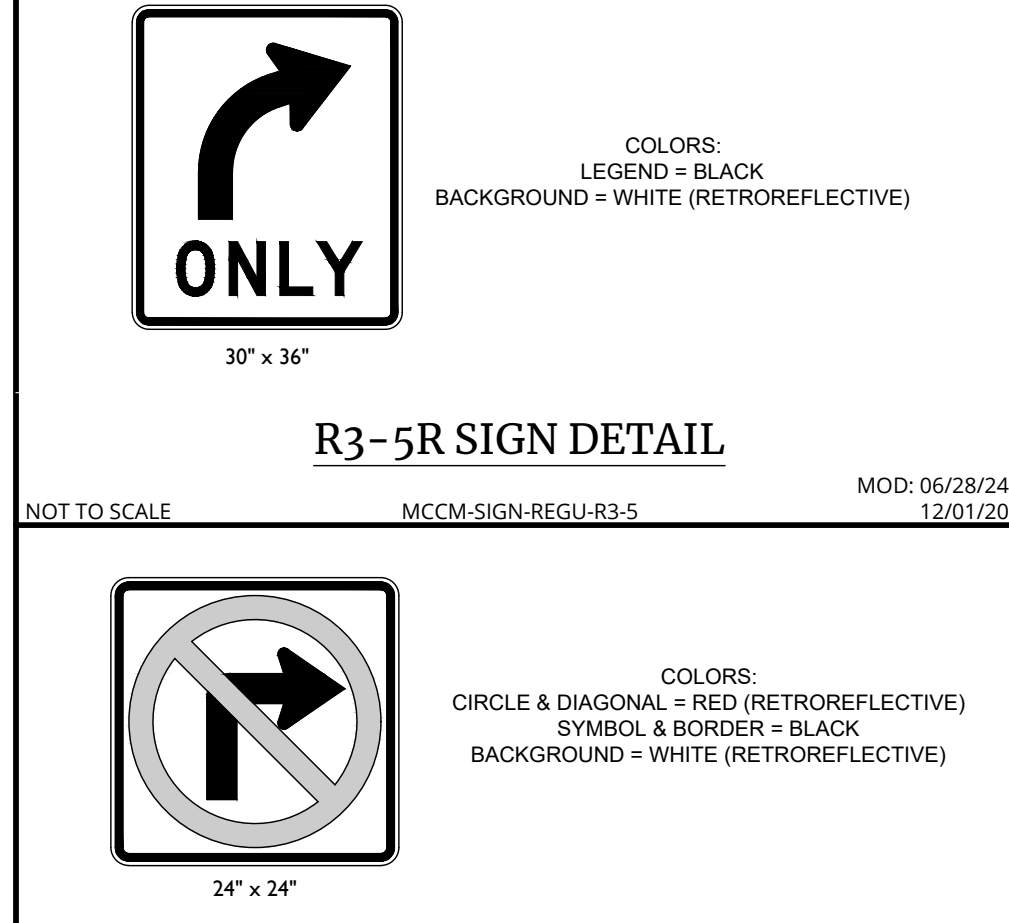
CONCRETE SIDEWALK (NEXT TO CURB) DETAIL
 MCJN-SITE-PVMT-2000
 MOD: 06/21/24
 08/01/20



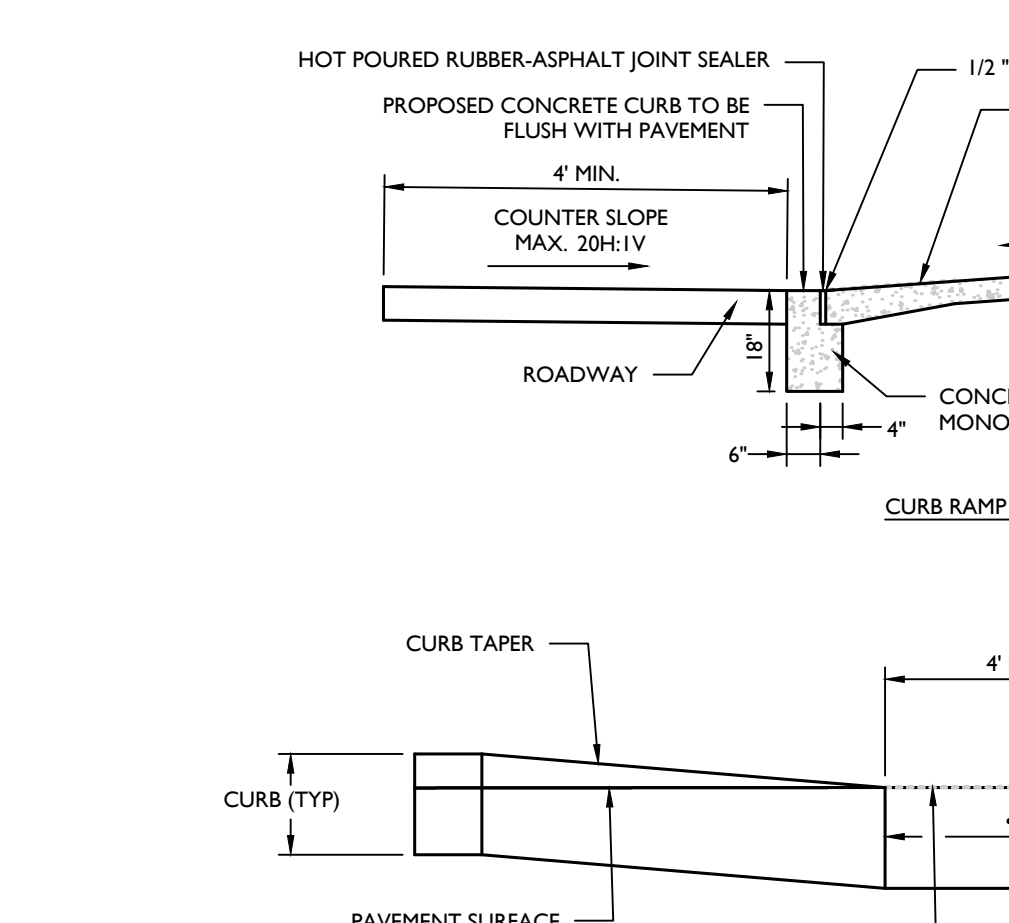
ACCESSIBLE PARKING HAIRPIN STRIPE STALL DETAIL
 MCJN-SITE-MRKG-1800
 MOD: 03/01/18
 03/01/17



CURB RAMP CURB TAPER DETAIL
 MCJN-SITE-HADA-2301
 MOD: 05/01/17
 05/01/17



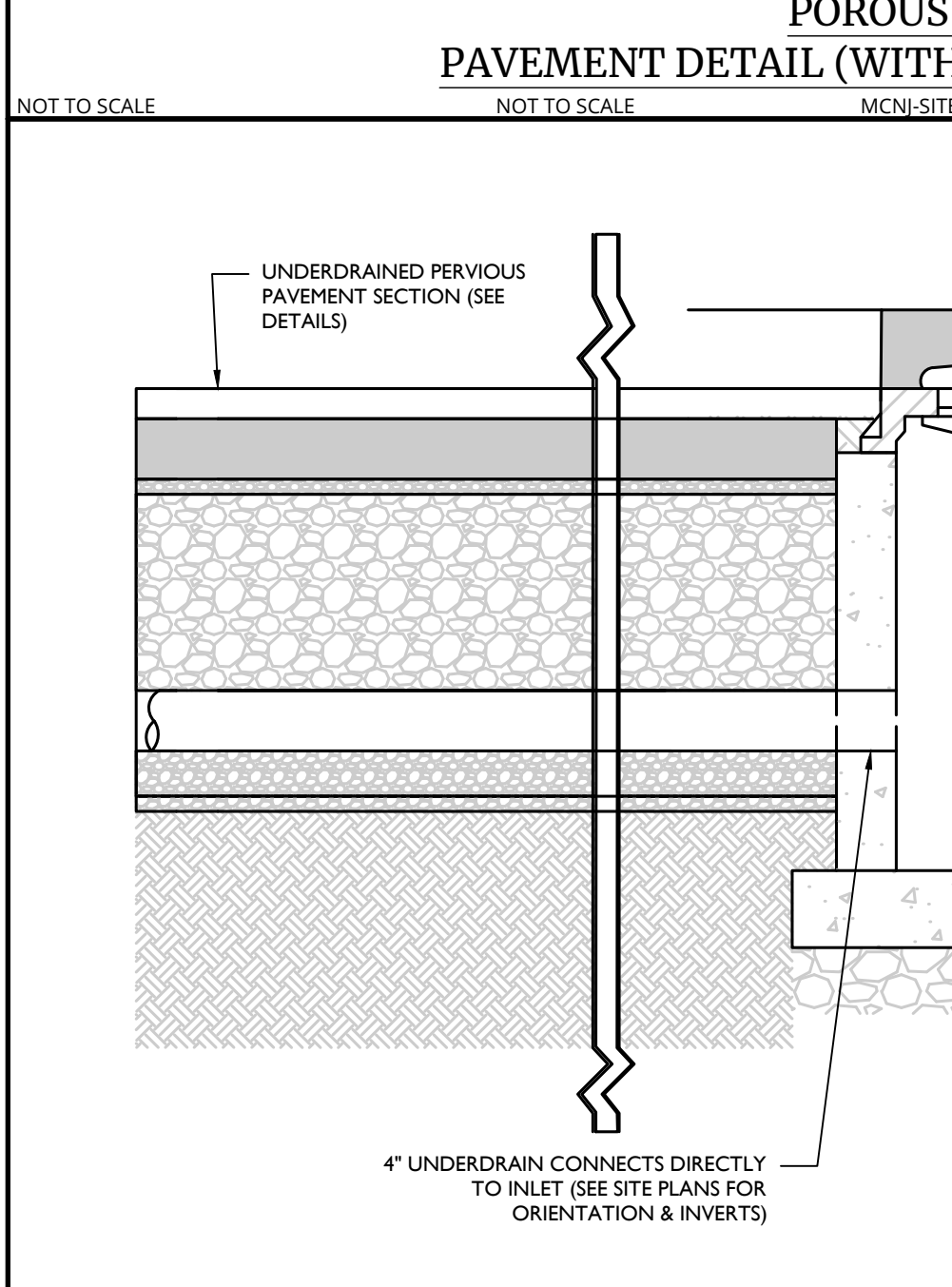
R3-5R SIGN DETAIL
 MCCM-SIGN-REGU-R3-5
 MOD: 06/28/24
 12/01/20



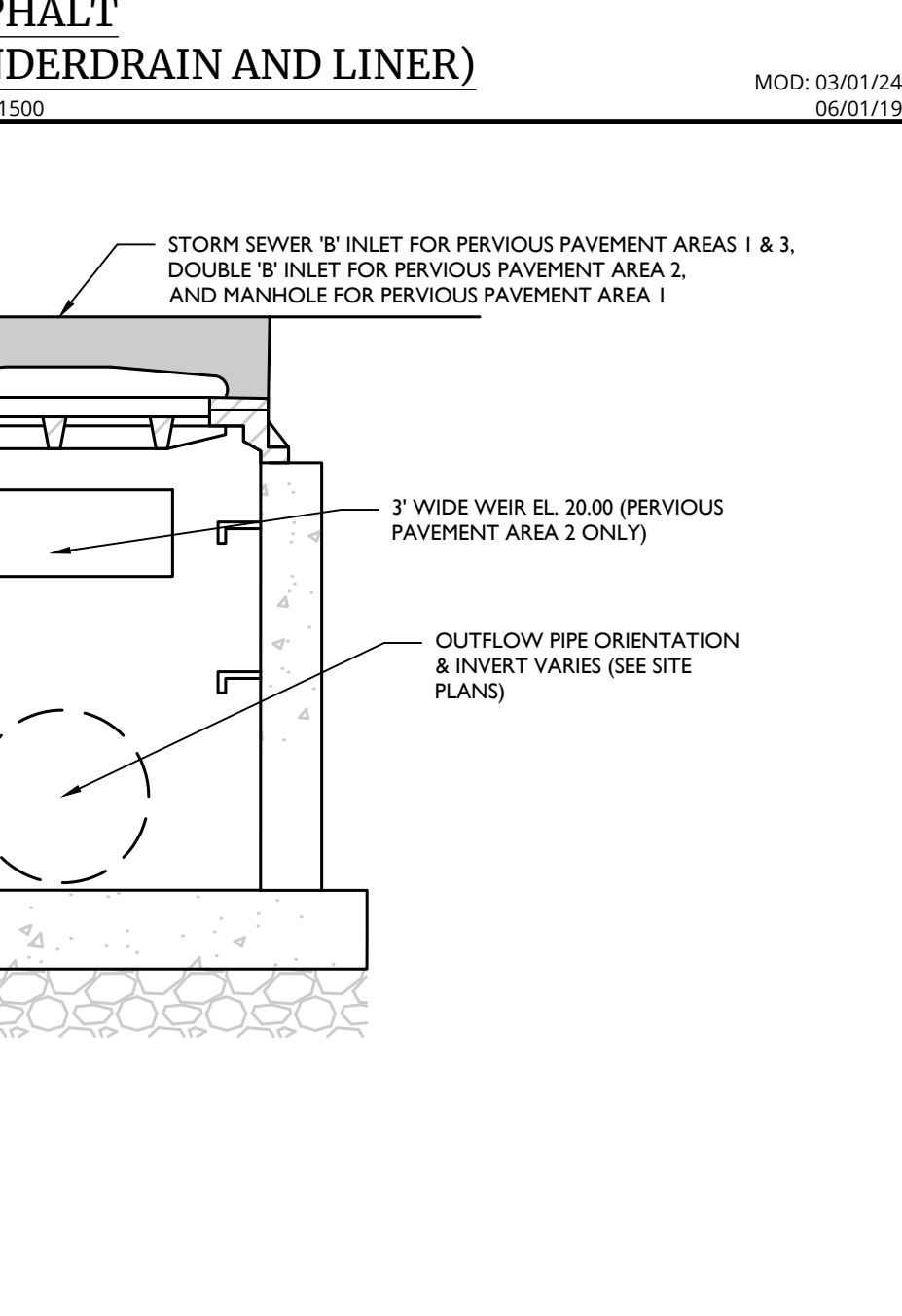
CURB RAMP SECTIONS DETAIL
 MCJN-SITE-HADA-2000
 MOD: 06/28/24
 07/01/20

CURB RAMP SECTIONS DETAIL

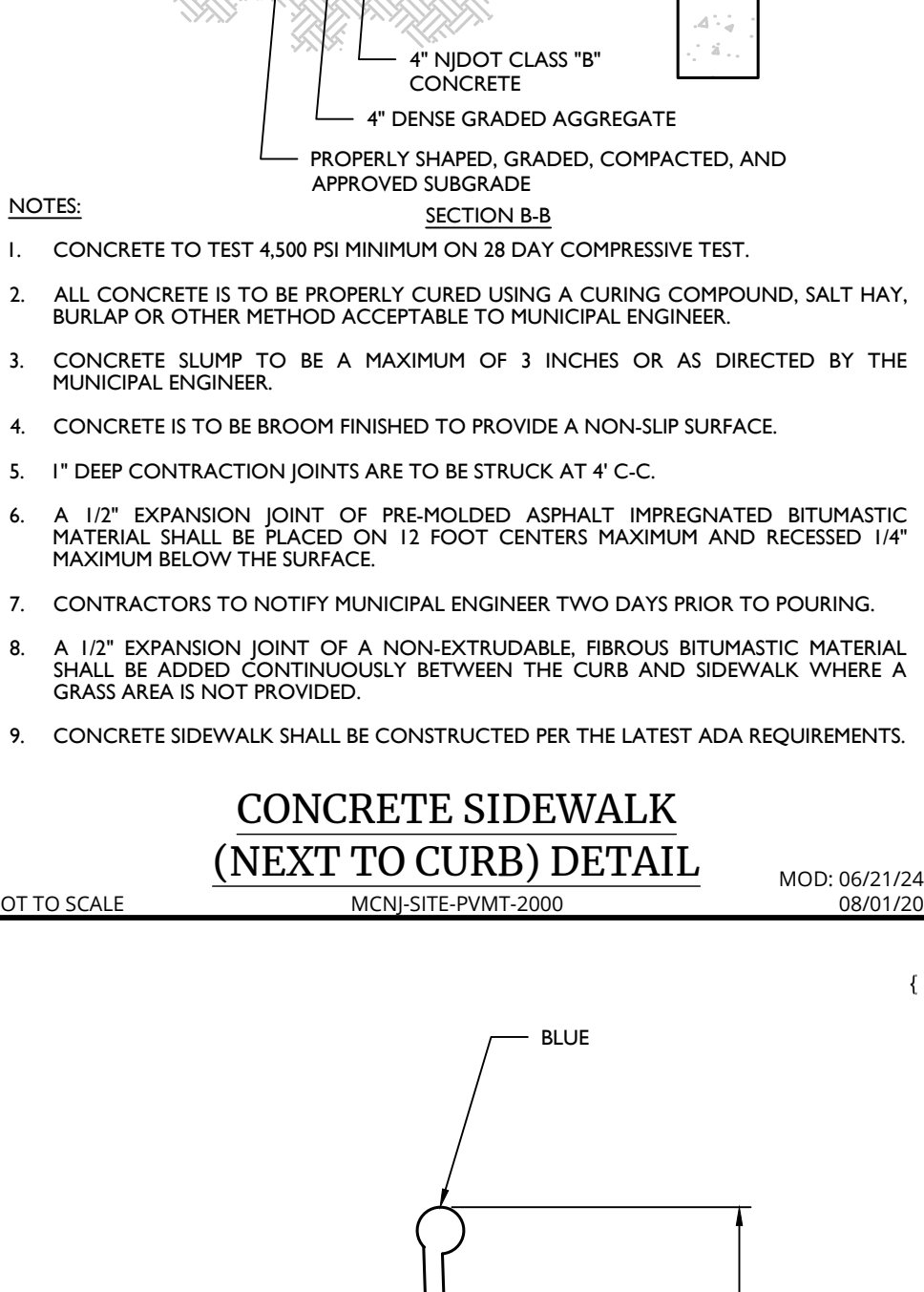
- FLUSH CURB AT DETECTABLE WARNING SURFACE (WHERE SHOWN ON PLANS) IS TO BE A SMOOTH LEVEL SURFACE THAT IS FLUSH WITH THE ADJOINING PAVEMENT. NO BUMPS OR ROUGH SURFACE ARE ALLOWED. SUCH UNEVENNESS MUST BE MILLED OR GROUND SMOOTH.
- CURB TO BE FLUSH WITH ROADWAY PAVEMENT AND CONSTRUCTED WITH CONCRETE REGARDLESS OF THE CURB MATERIAL WHERE AS 1.0% USED THROUGHOUT THE SITE.
- POSITIVE DRAINAGE IS TO BE MAINTAINED AT RAMP. RAMP IS TO SLOPE TOWARDS PAVEMENT NO PONDING OF WATER IS PERMITTED AT CURB RAMP. PAVEMENT GRADES TO BE ADJUSTED AS NECESSARY TO PROVIDE POSITIVE GUTTER DRAINAGE.
- AS CONSTRUCTED GUTTER DRAINAGE GRADE ALONG FLUSH CURB AND WITHIN THE CROSSWALK AREA TO BE 1.0% MINIMUM, 2.0% MAXIMUM, WHERE AS 0.5% ABSOLUTE MINIMUM IF DUE TO SITE CONSTRAINTS.
- DEVIATION FROM THIS DETAIL REQUIRES THE WRITTEN APPROVAL OF THE UNDERSIGNED PROFESSIONAL.



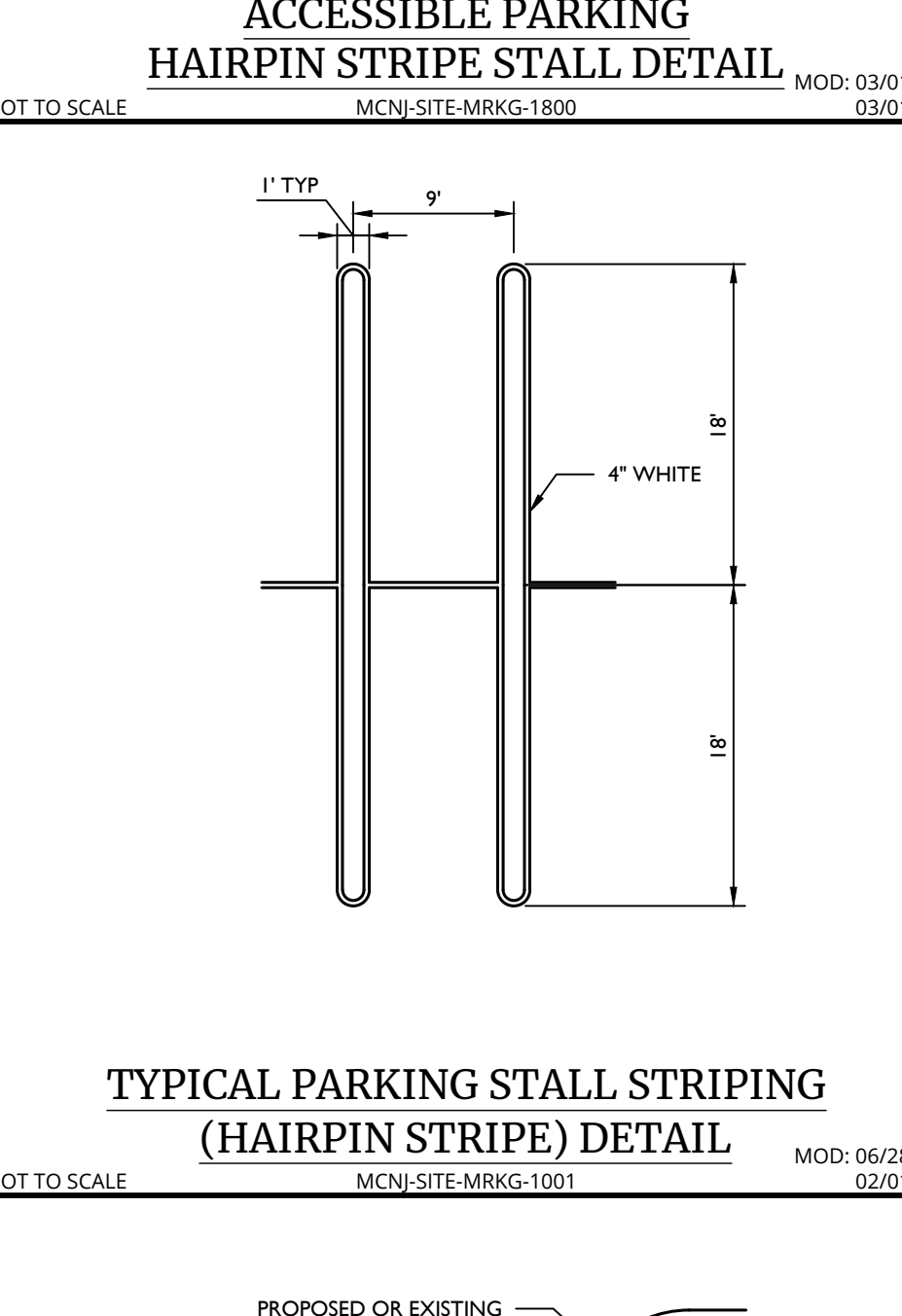
OUTLET CONTROL STRUCTURE FOR PERVIOUS PAVEMENT AREAS DETAIL
 MCJN-SITE-MRKG-2000
 MOD: 06/28/24
 02/01/19



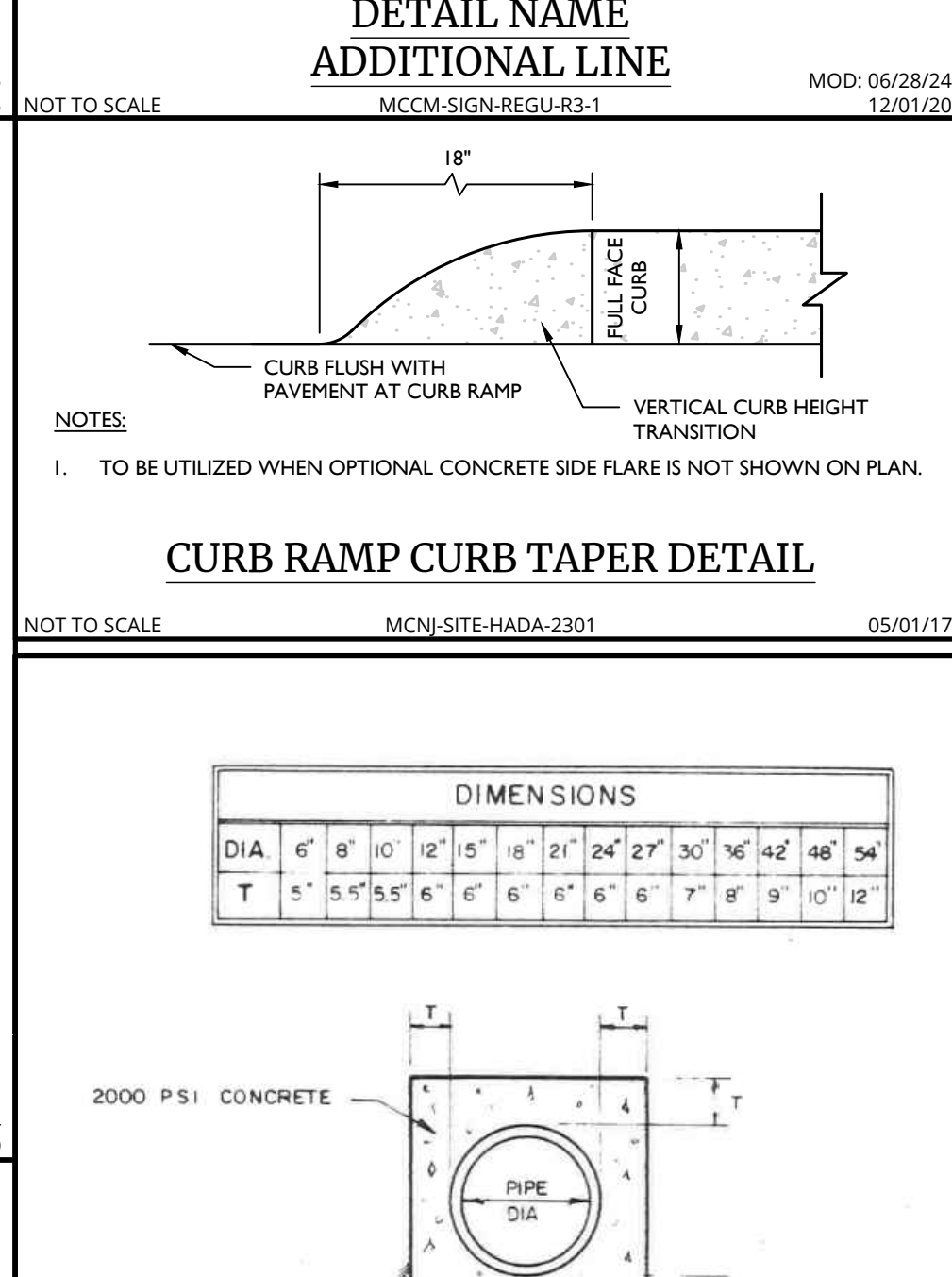
TYPICAL STOP BAR DETAIL
 MCJN-SITE-MRKG-1100
 MOD: 05/01/17
 05/01/17



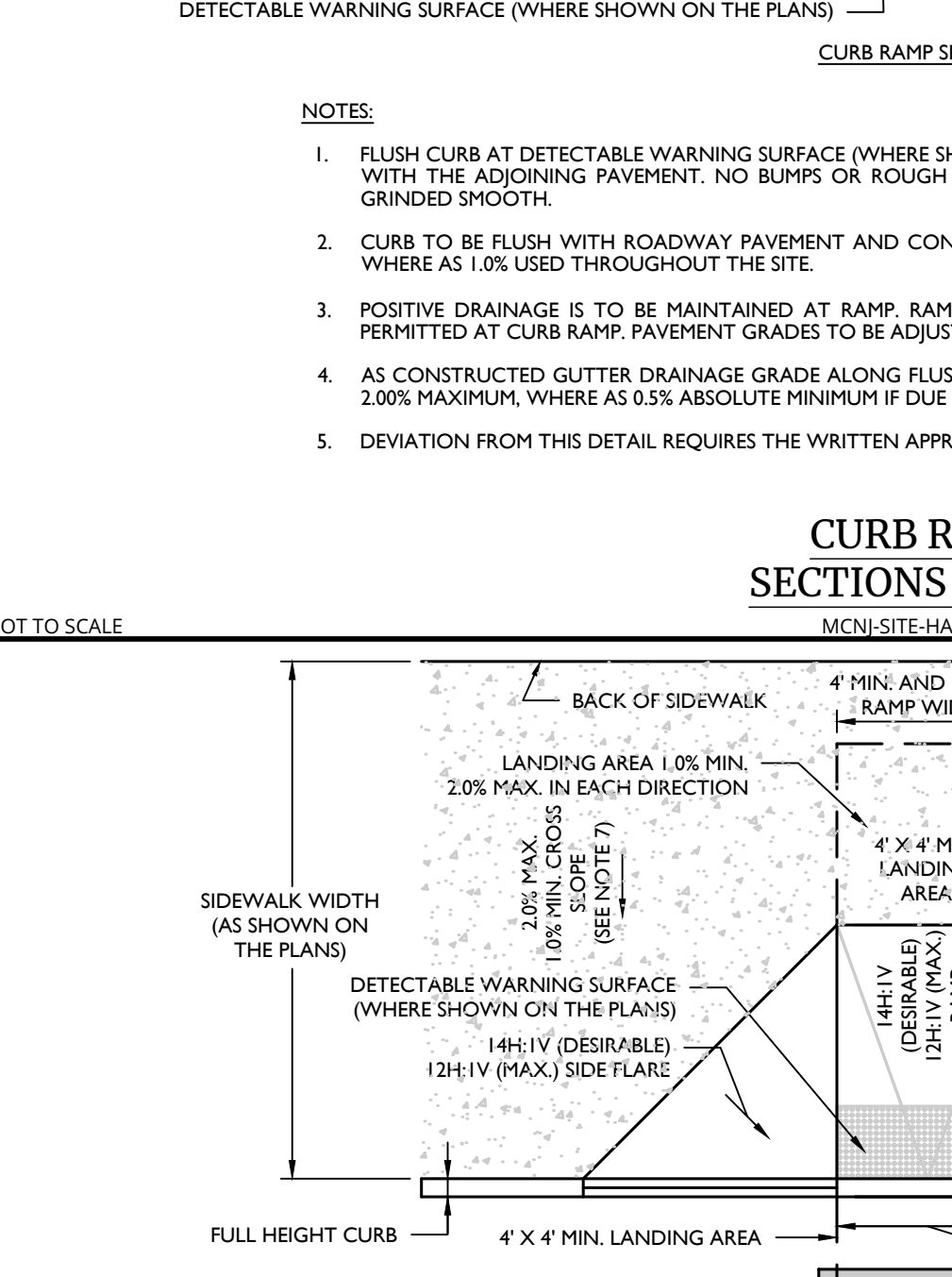
TYPICAL PARKING STALL STRIPING (HAIRPIN STRIPE) DETAIL
 MCJN-SITE-MRKG-1001
 MOD: 06/28/24
 02/01/19



STRAIGHT PAVEMENT ARROW DETAIL
 MCJN-SITE-MRKG-1200
 MOD: 05/01/17
 05/01/17



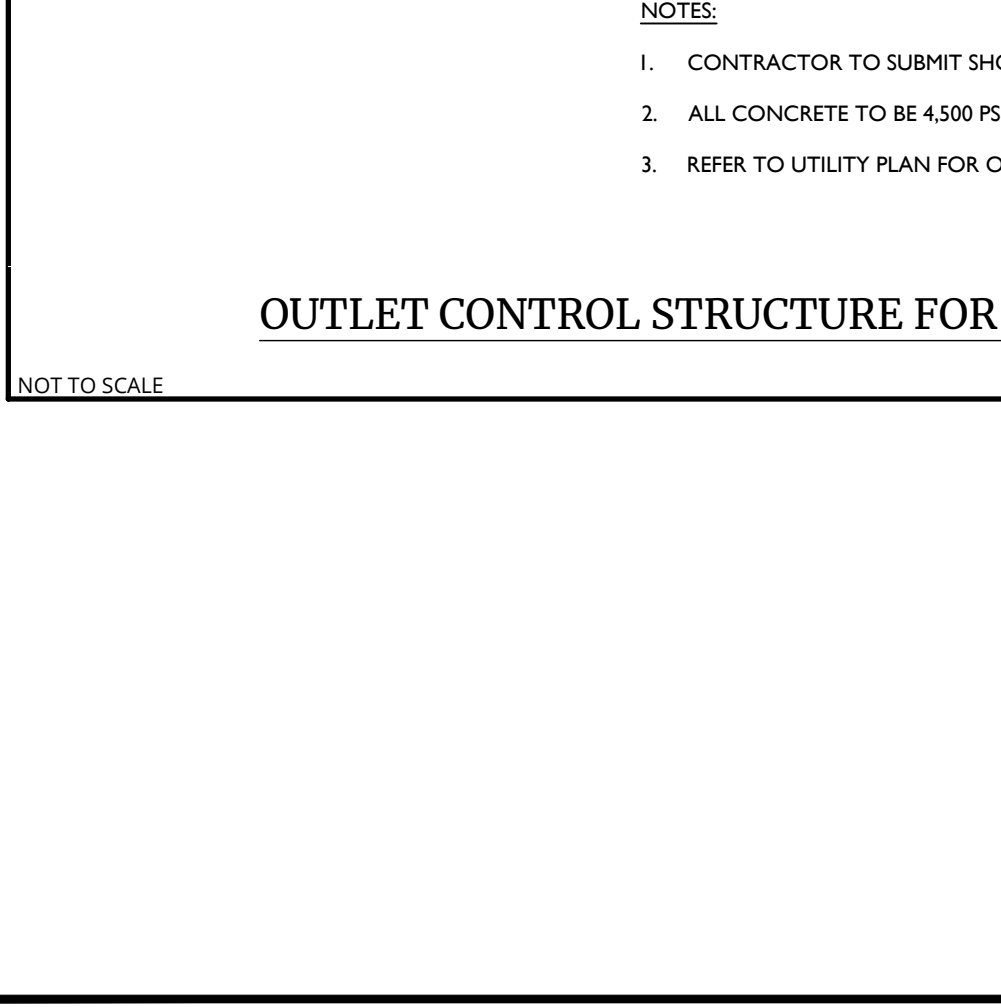
STANDARD DETAIL CONCRETE ENCASUREMENT & CRADLE
 MCJN-SITE-MRKG-1000
 MOD: 05/01/17
 05/01/17



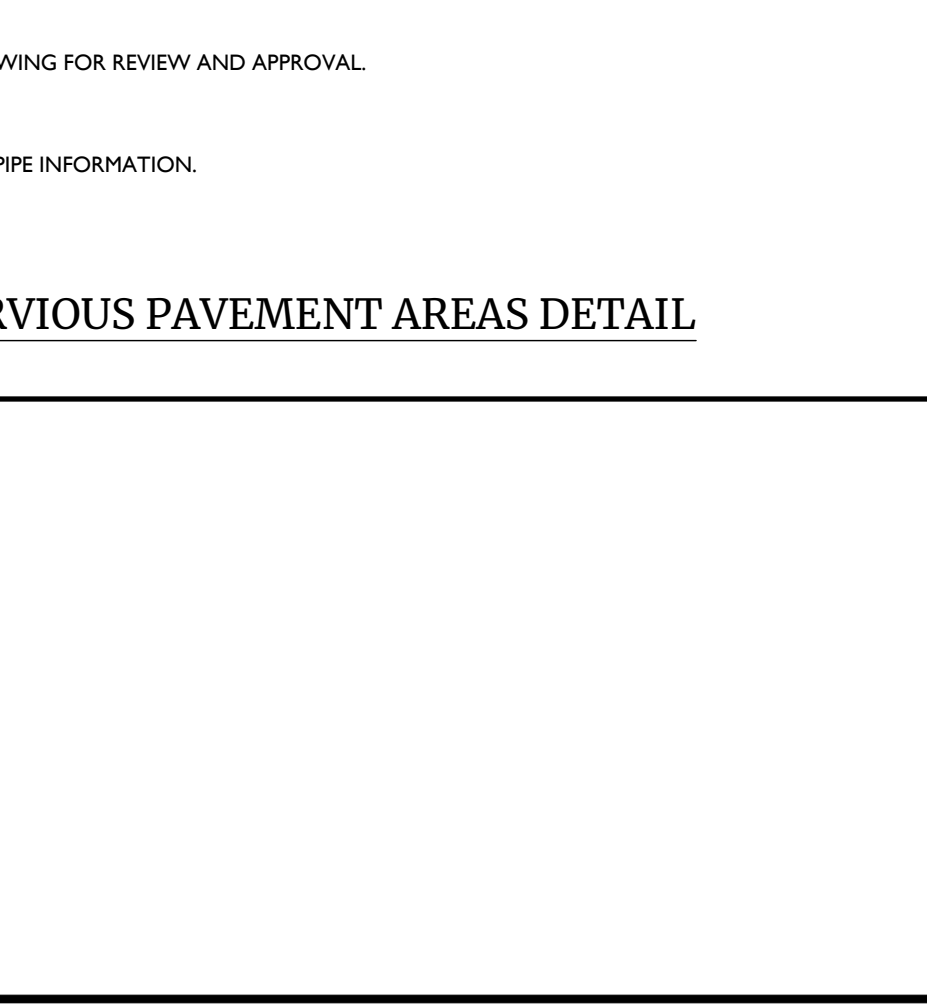
CURB RAMP TYPE 1 DETAIL
 MCJN-SITE-HADA-1000
 MOD: 07/01/20
 07/01/20

CURB RAMP TYPE 1 DETAIL

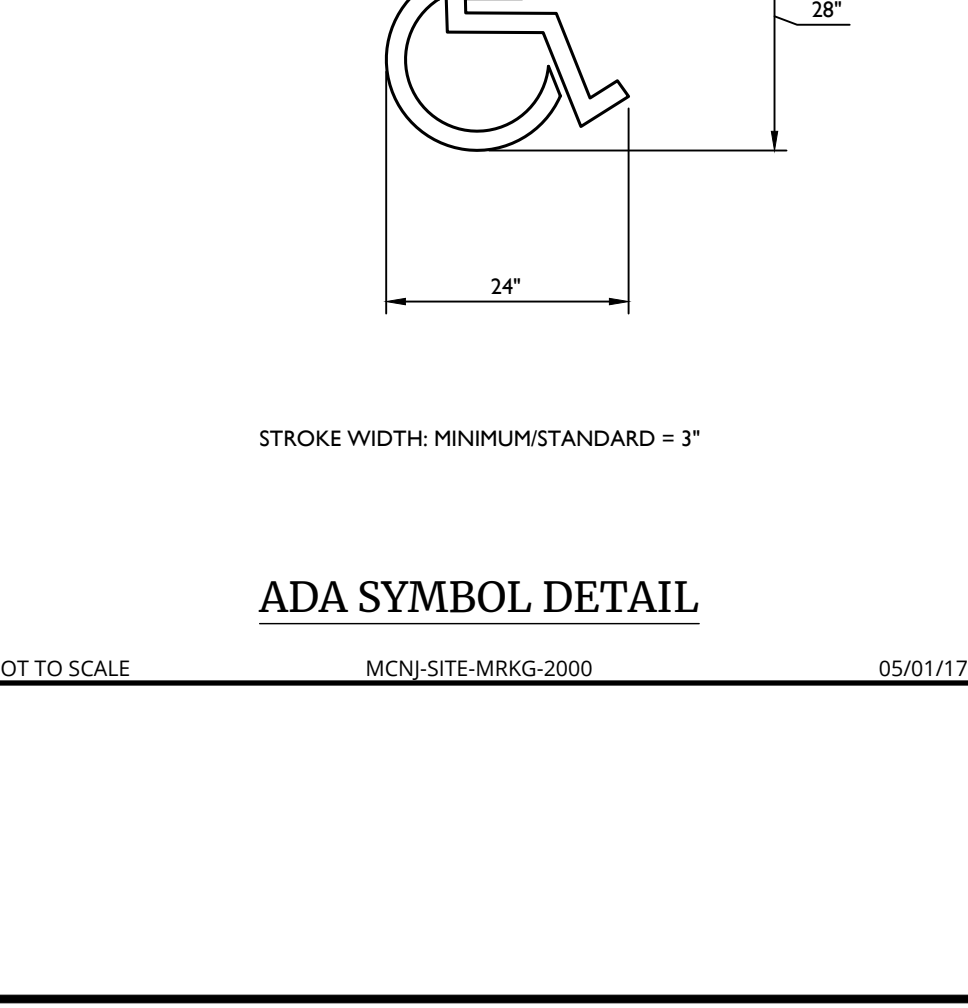
NOTE: 1. SEE CURB RAMP NOTES.



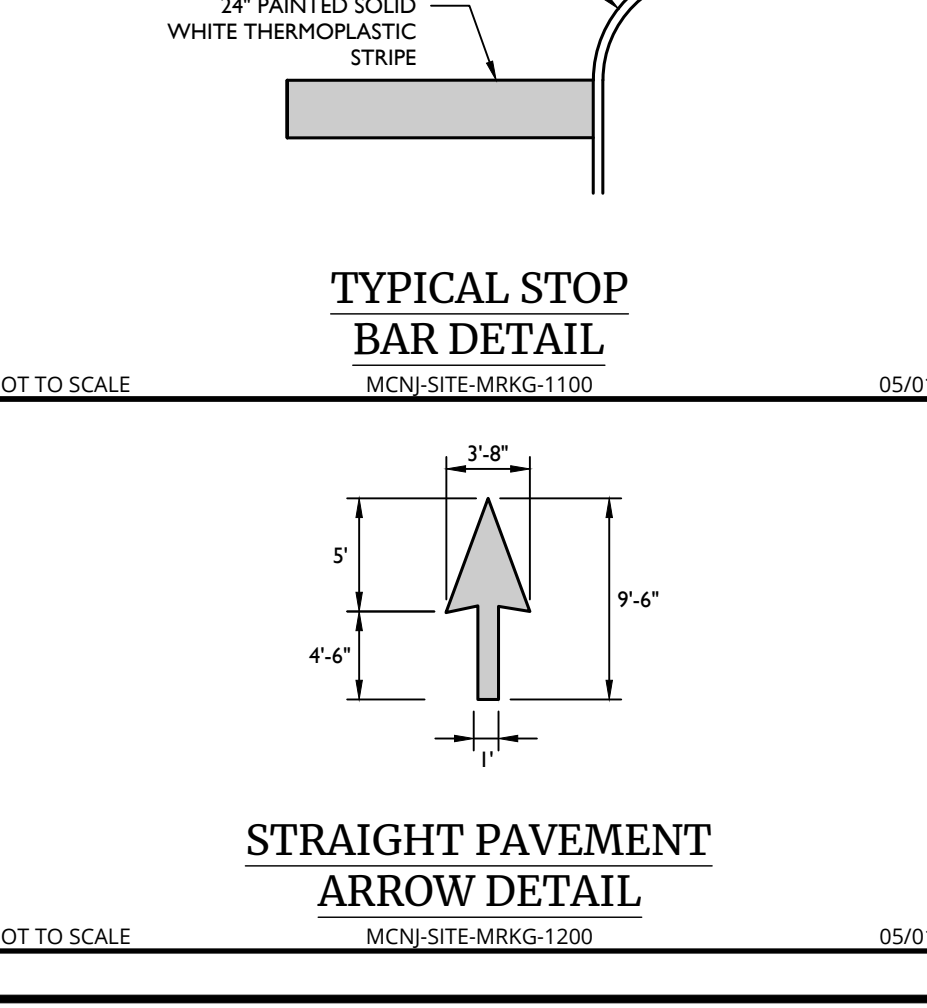
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 MOD: 06/28/24
 02/01/19



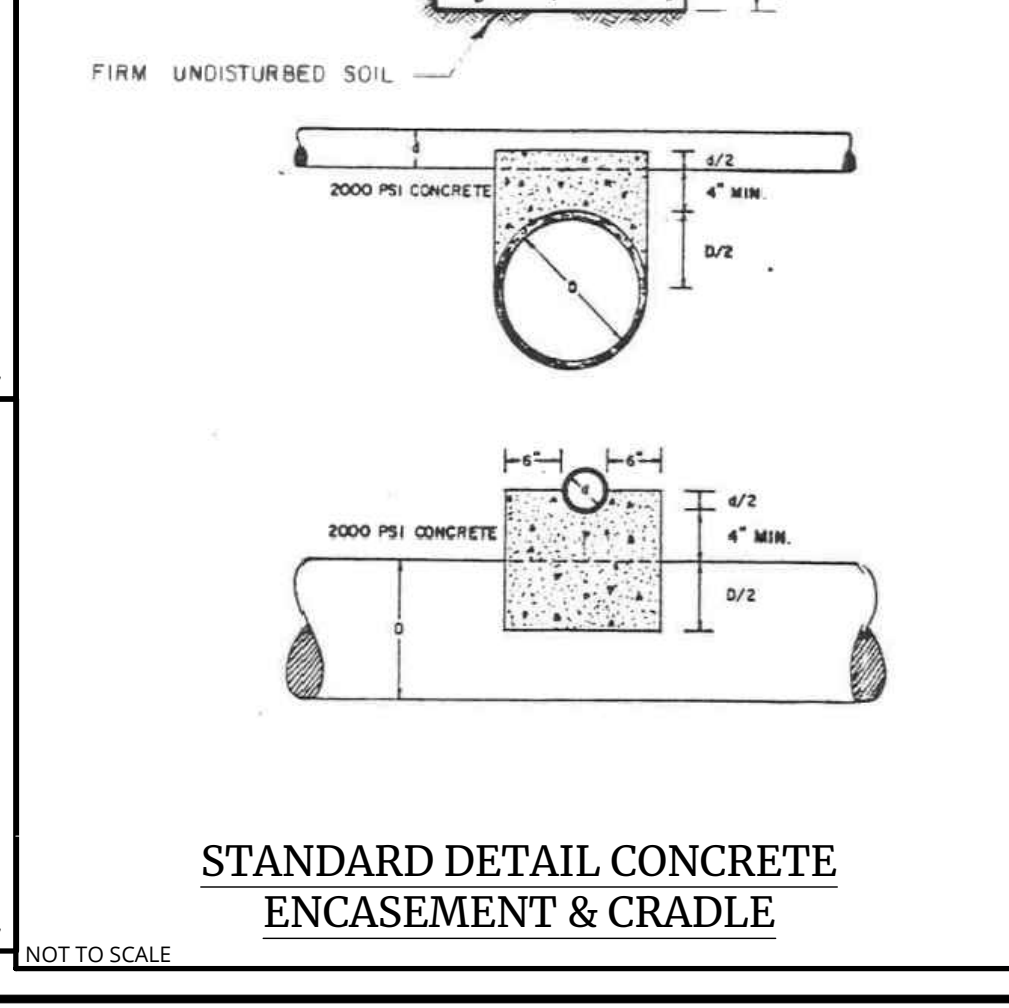
ADA SYMBOL DETAIL
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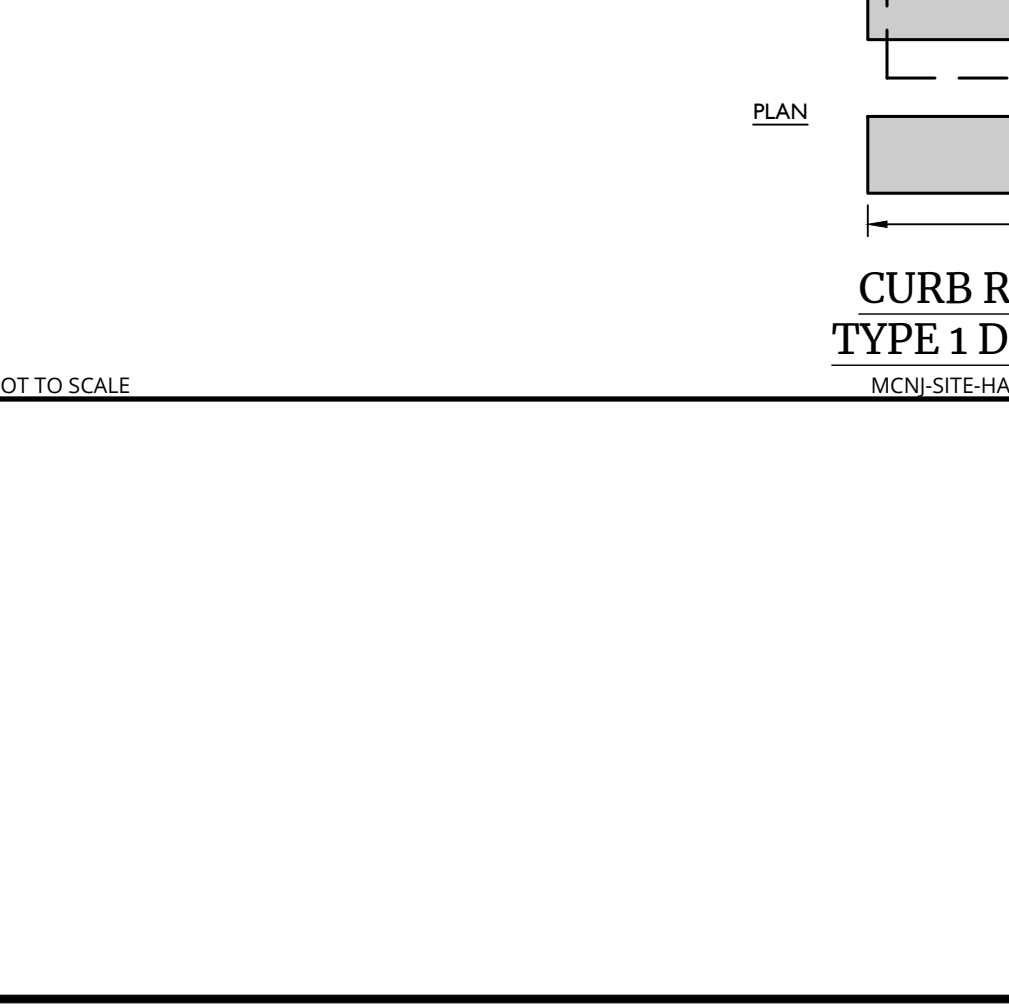
TYPICAL STOP BAR DETAIL
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 MOD: 05/01/17
 05/01/17



STRAIGHT PAVEMENT ARROW DETAIL
 MCJN-SITE-MRKG-1200
 MOD: 05/01/17
 05/01/17



STANDARD DETAIL CONCRETE ENCASUREMENT & CRADLE
 MCJN-SITE-MRKG-1000
 MOD: 05/01/17
 05/01/17



CURB RAMP TYPE 1 DETAIL
 MCJN-SITE-HADA-1000
 MOD: 07/01/20
 07/01/20

CURB RAMP TYPE 1 DETAIL

NOTE: 1. SEE CURB RAMP NOTES.

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	06/20/23	ISSUED FOR PERMITS	RM	DB
2	04/10/24	ISSUED FOR PERMITS	RM	DB
3	04/25/24	ISSUED FOR PERMITS	RM	DB

Michael Stickle
 NEW JERSEY LICENSED PROFESSIONAL ENGINEER
 LICENSE NUMBER: GE57838
 COLLIER ENGINEERING & DESIGN, INC.
 N.J. C.O.A. #: 2462799650

PRELIMINARY AND FINAL MAJOR SITE PLAN
 FOR
JERNEE MILL INDUSTRIAL

BLOCK 58
LOTS 2.01 & 9
BOROUGH OF SAYREVILLE
MIDDLESEX COUNTY
NEW JERSEY

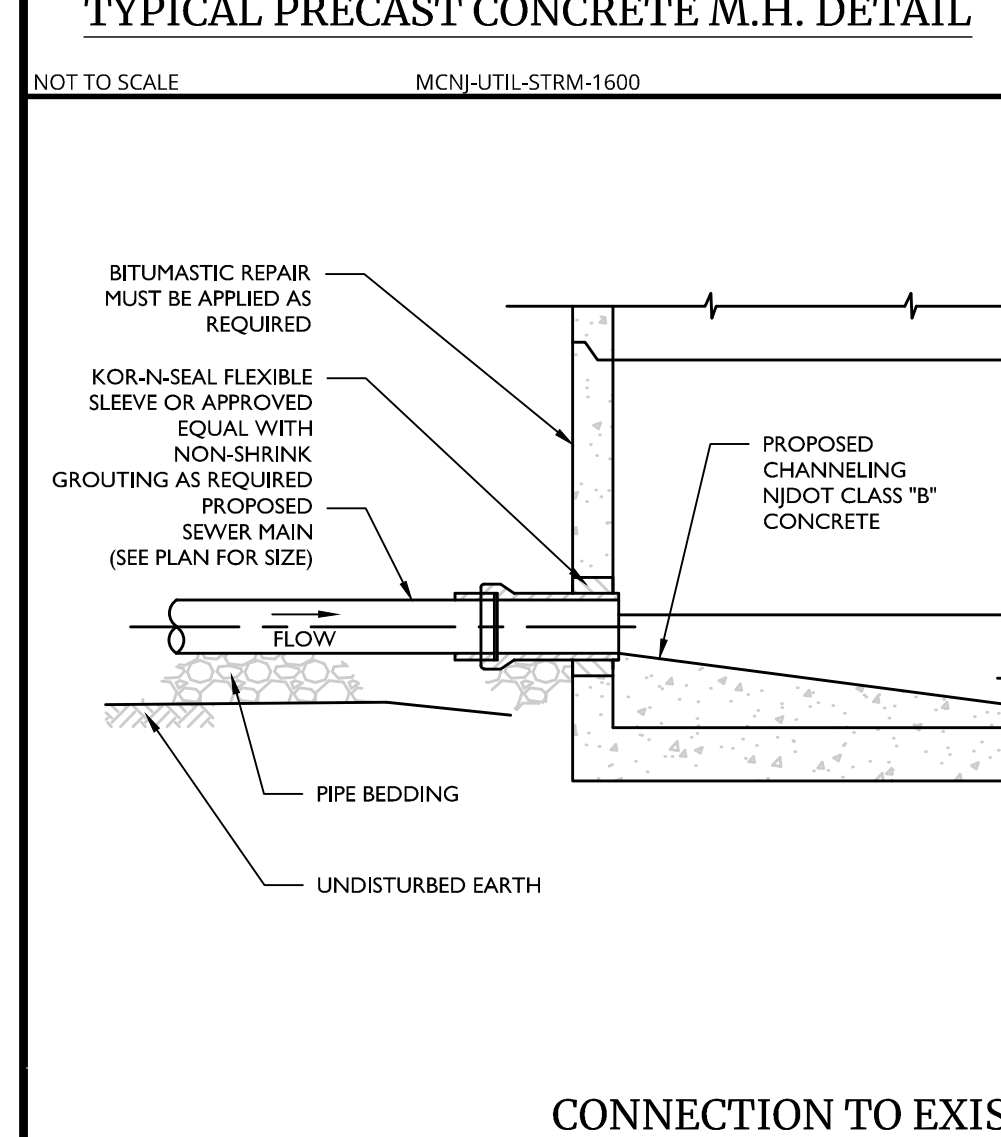
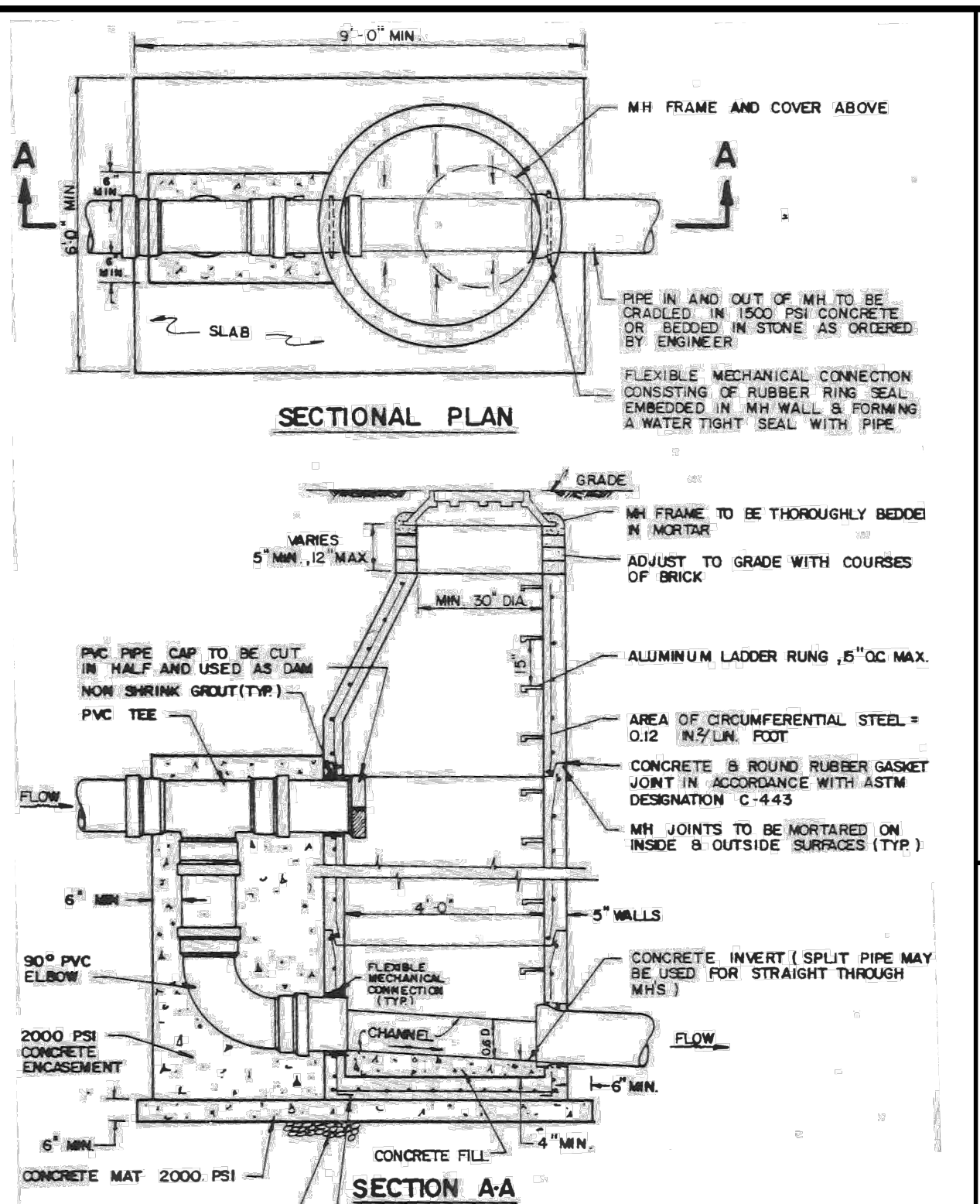
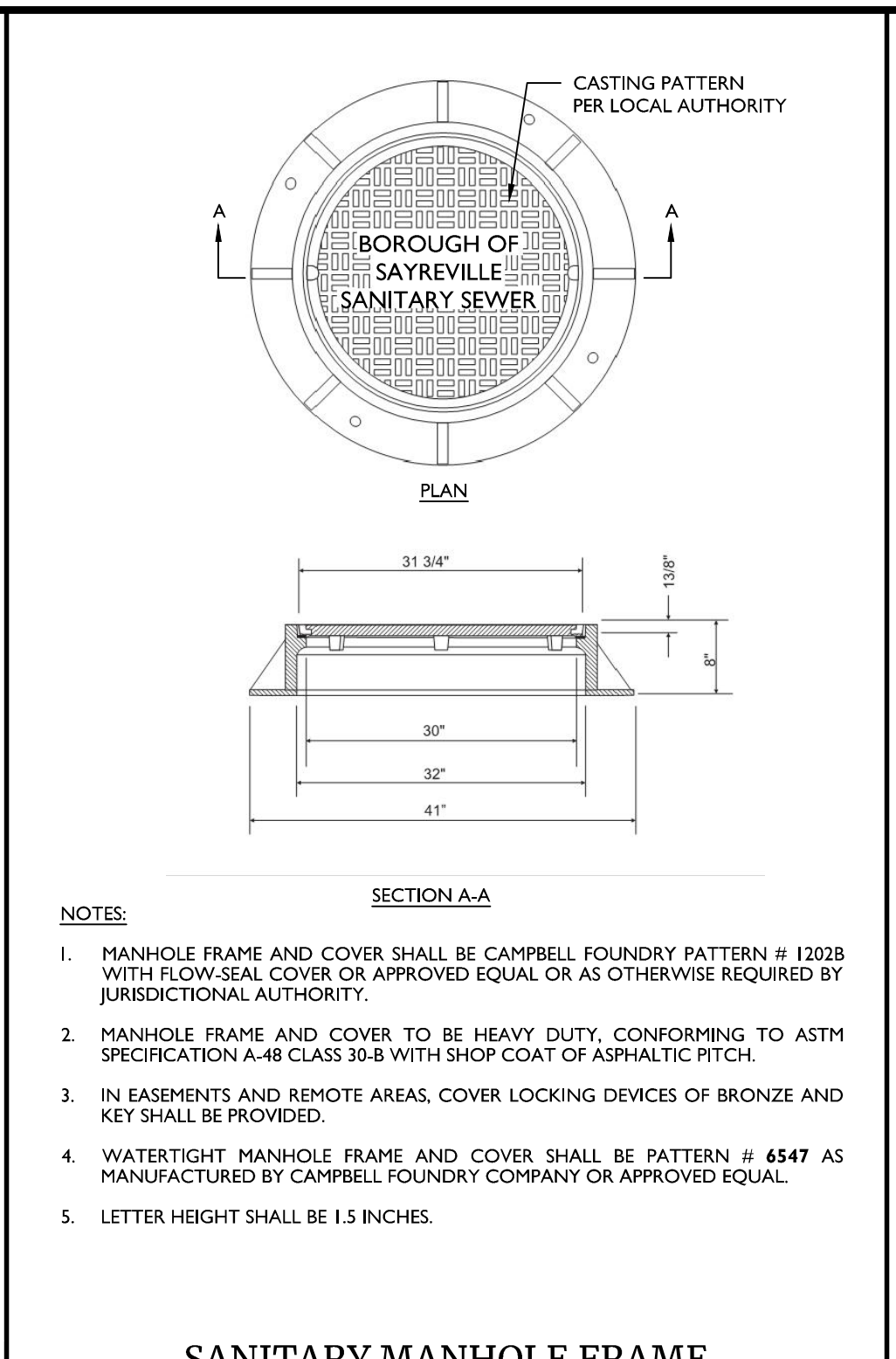
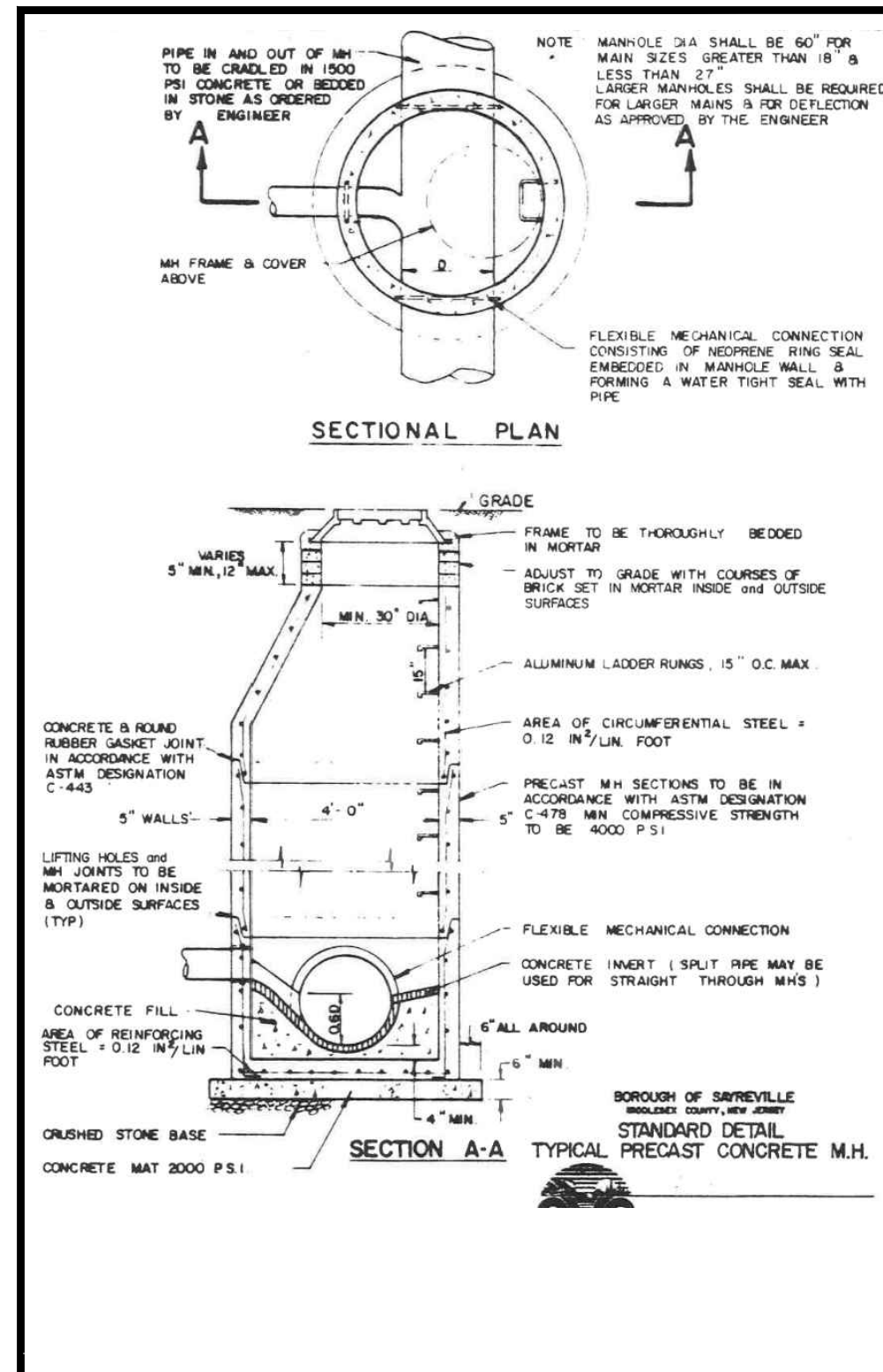
Colliers Engineering & Design
 HQ/Model (Headquarters)
 101 Crawford Corner Road,
 Suite 3400
 Harrison, NJ 07033
 Phone: 732.983.1950
 COLLIER ENGINEERING & DESIGN, INC.
 DOING BUSINESS AS MASER CONSULTING

SCALE: AS SHOWN DATE: 6/12/2023 DRAWN BY: RM CHECKED BY: DB
 PROJECT NUMBER: 10000657C DRAWING NAME: C-0115
 SHEET NUMBER: 29 of 37

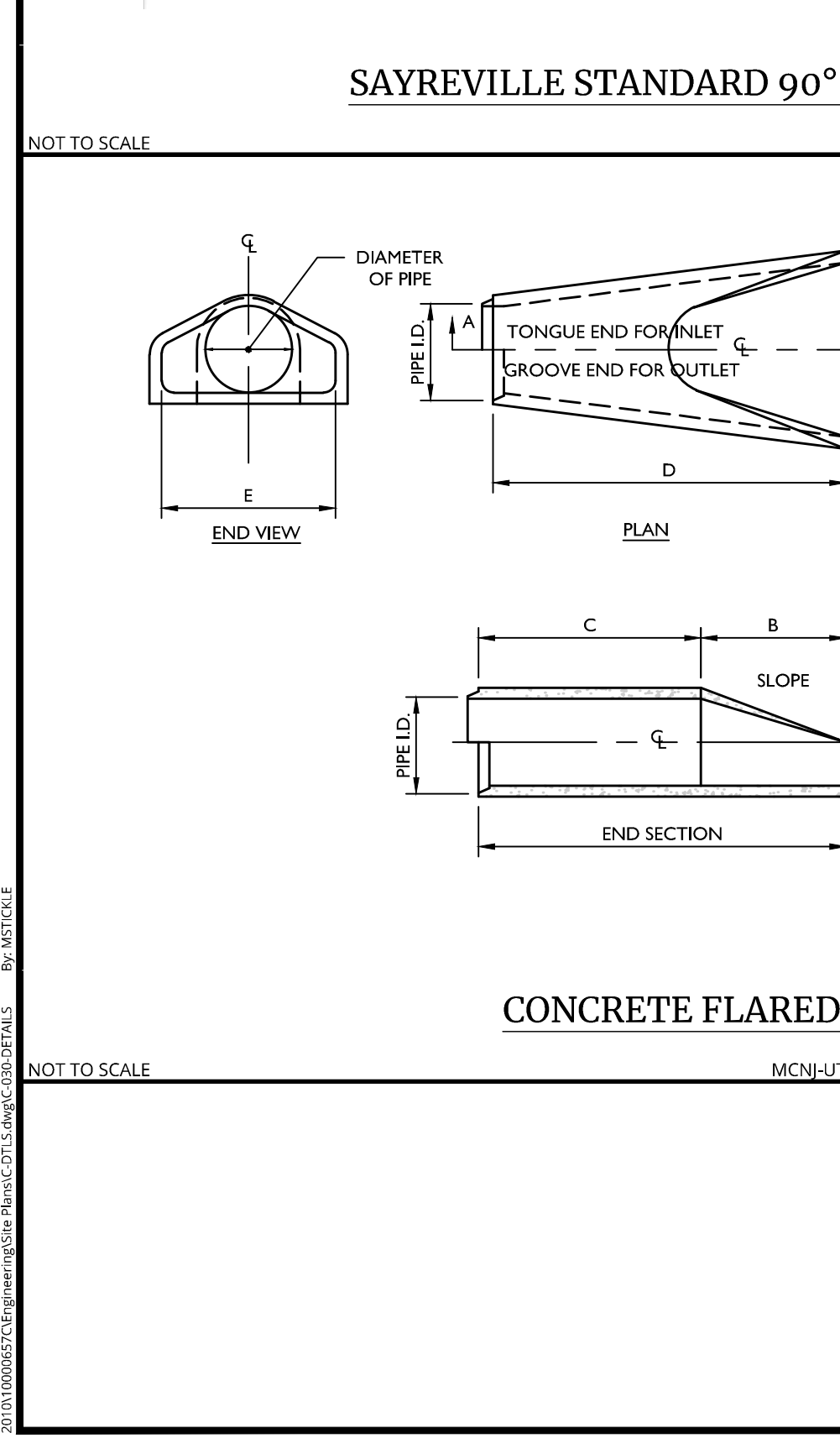
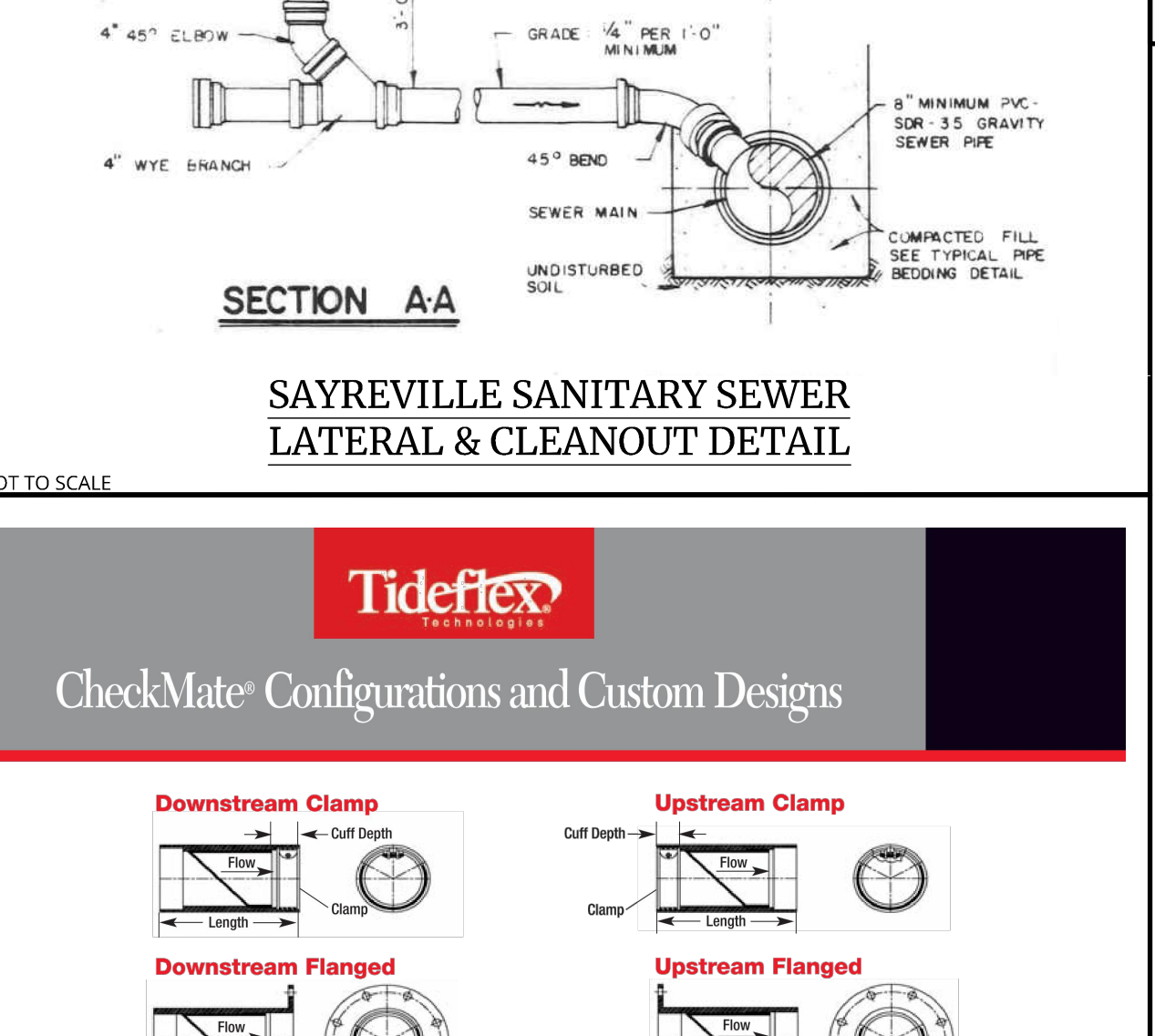
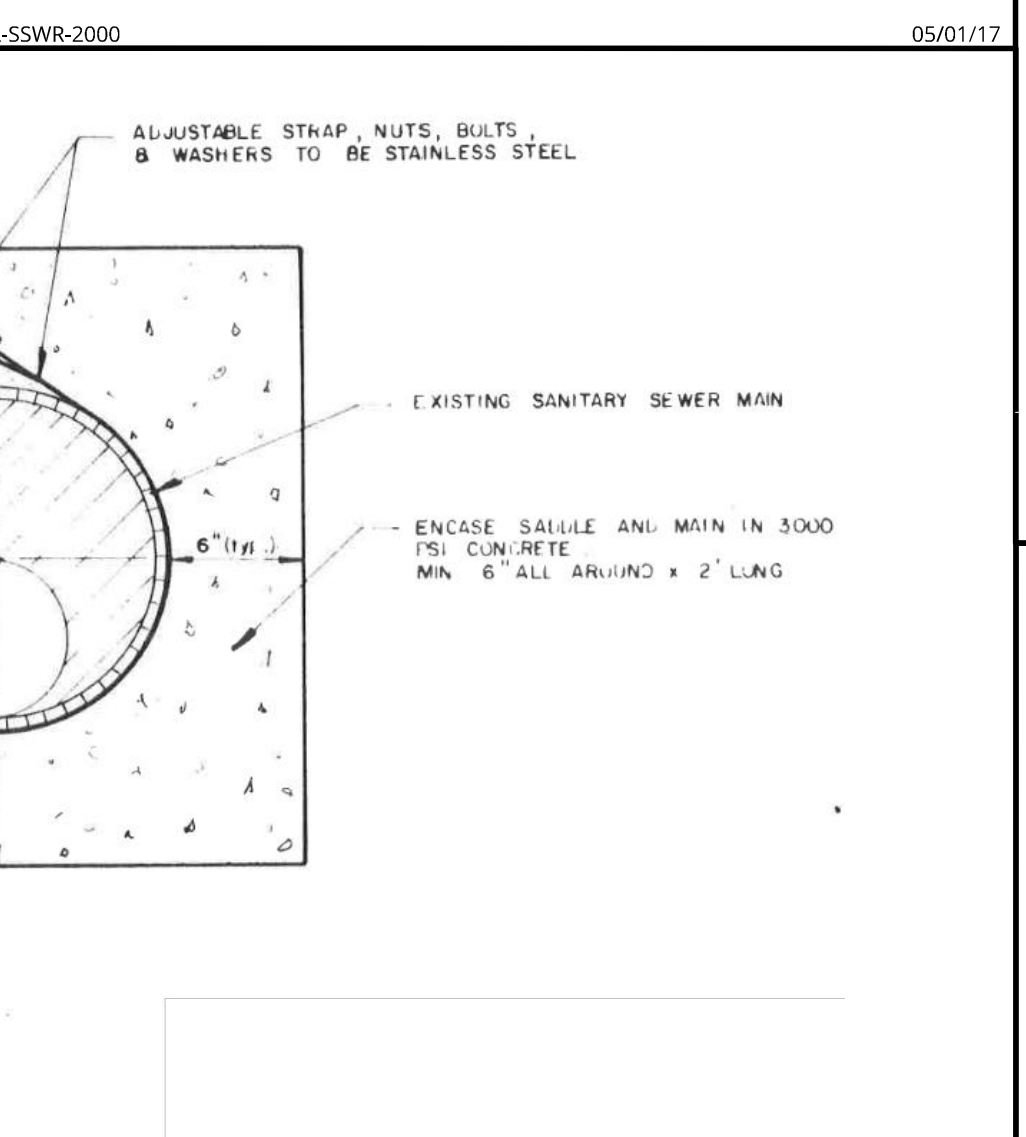
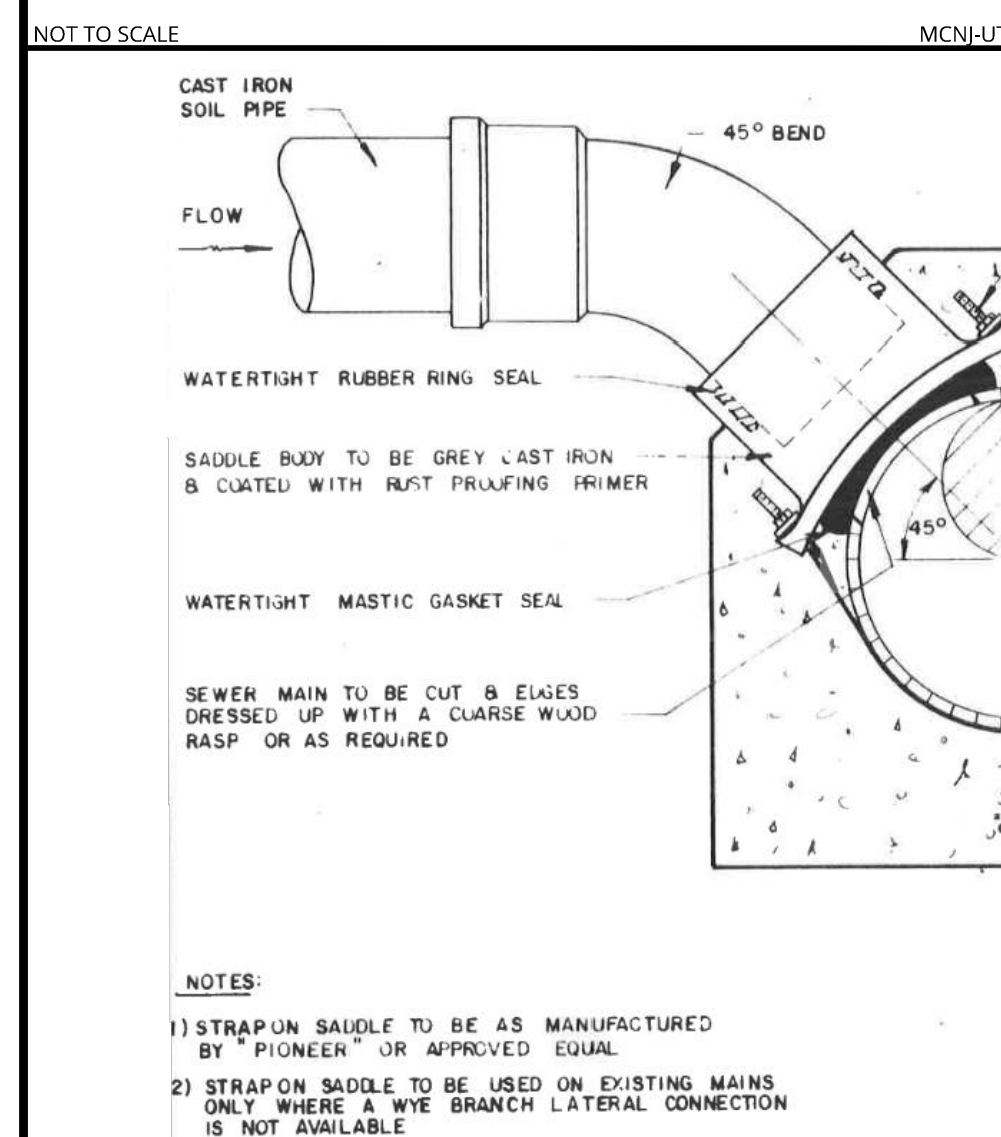
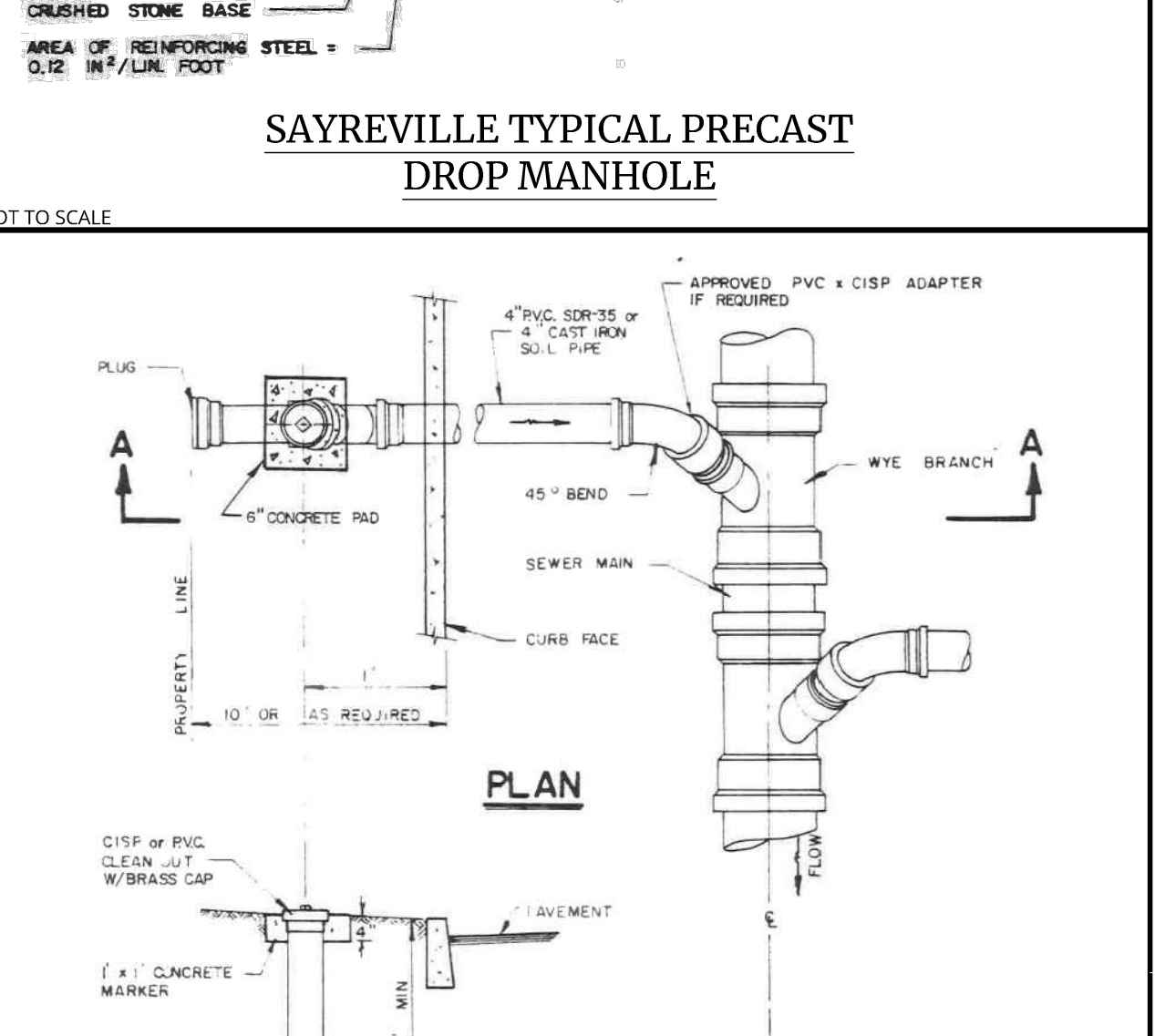
CONSTRUCTION DETAILS

9 of 37

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



- NOTES:**
- CONSTRUCTION OF THE NEW SEWER MAIN SHALL NOT IMPED THE OPERATION OF THE EXISTING SEWER.
 - WHERE NEW PIPE IS TO BE CONNECTED INTO AN EXISTING MANHOLE THE CONTRACTOR SHALL CORE DRILL ALL HOLES INTO MANHOLE AND SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY FOR CHANNEL AND BENCH RECONSTRUCTION TO CHANNEL FLOW INTO EXISTING SEWER.
 - PIPE SHALL BE SEALED USING KOR-NEAL MANHOLE ADAPTERS OR APPROVED EQUAL AND NON-SHRINK GROUT.
 - EXISTING BENCH SHALL BE CHIPPED AND CUT AWAY TO ALLOW FOR NEW CHANNEL TO BE CONSTRUCTED AND TO PROVIDE GOOD SOUND SURFACE FOR BONDING WITH NEW CONCRETE CHANNEL AND BENCH. REMOVE ALL LOOSE MATERIALS AND CLEAN INSIDE OF THE STRUCTURE.
 - THE CONCRETE USED TO CONSTRUCT BENCHES AND CHANNELS SHALL BE NOT CLASS "B" CONCRETE APPLY EPOXY BONDING AGENT PRIOR TO POURING CONCRETE.
 - ANY DAMAGE TO THE EXISTING MANHOLE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR.



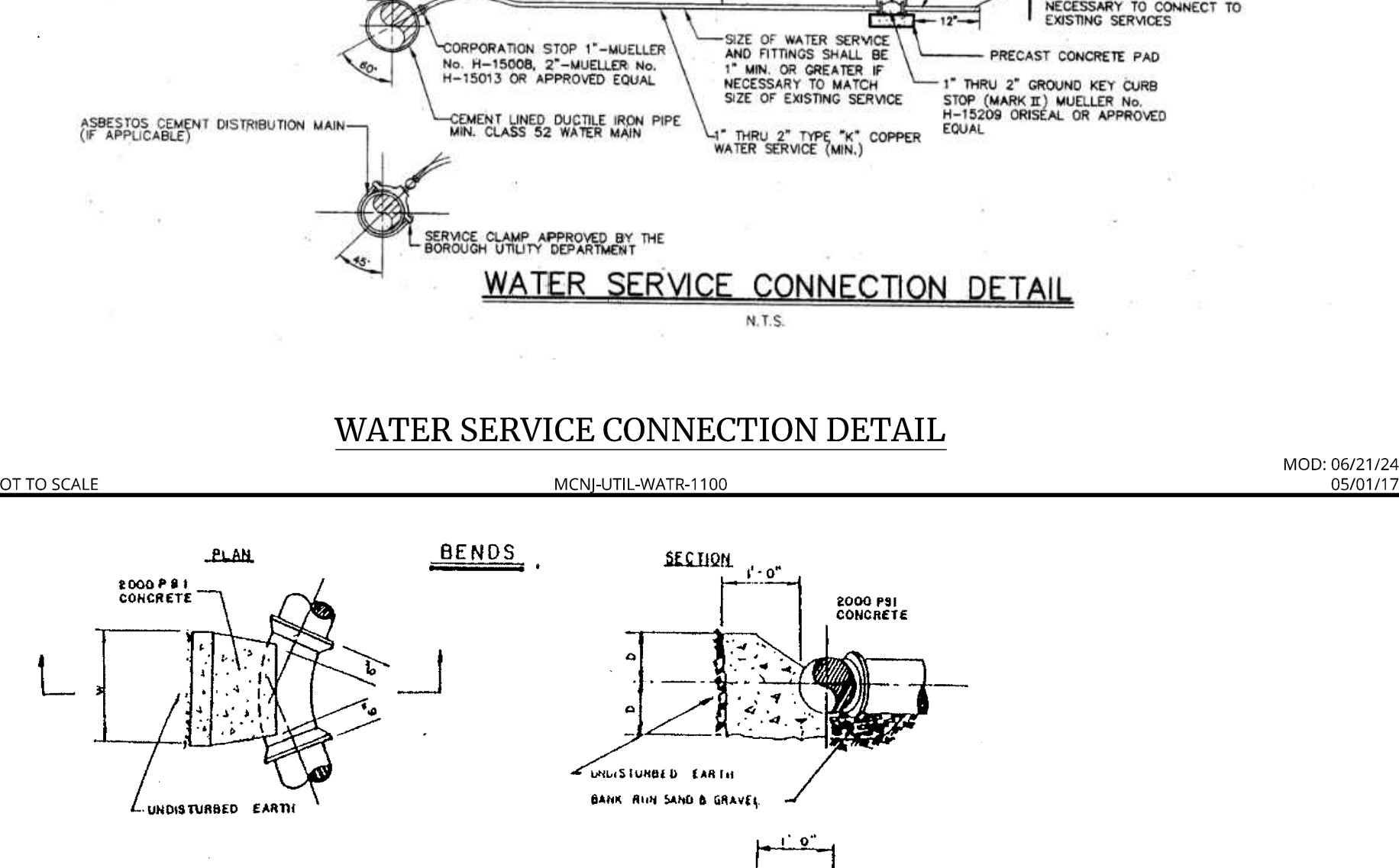
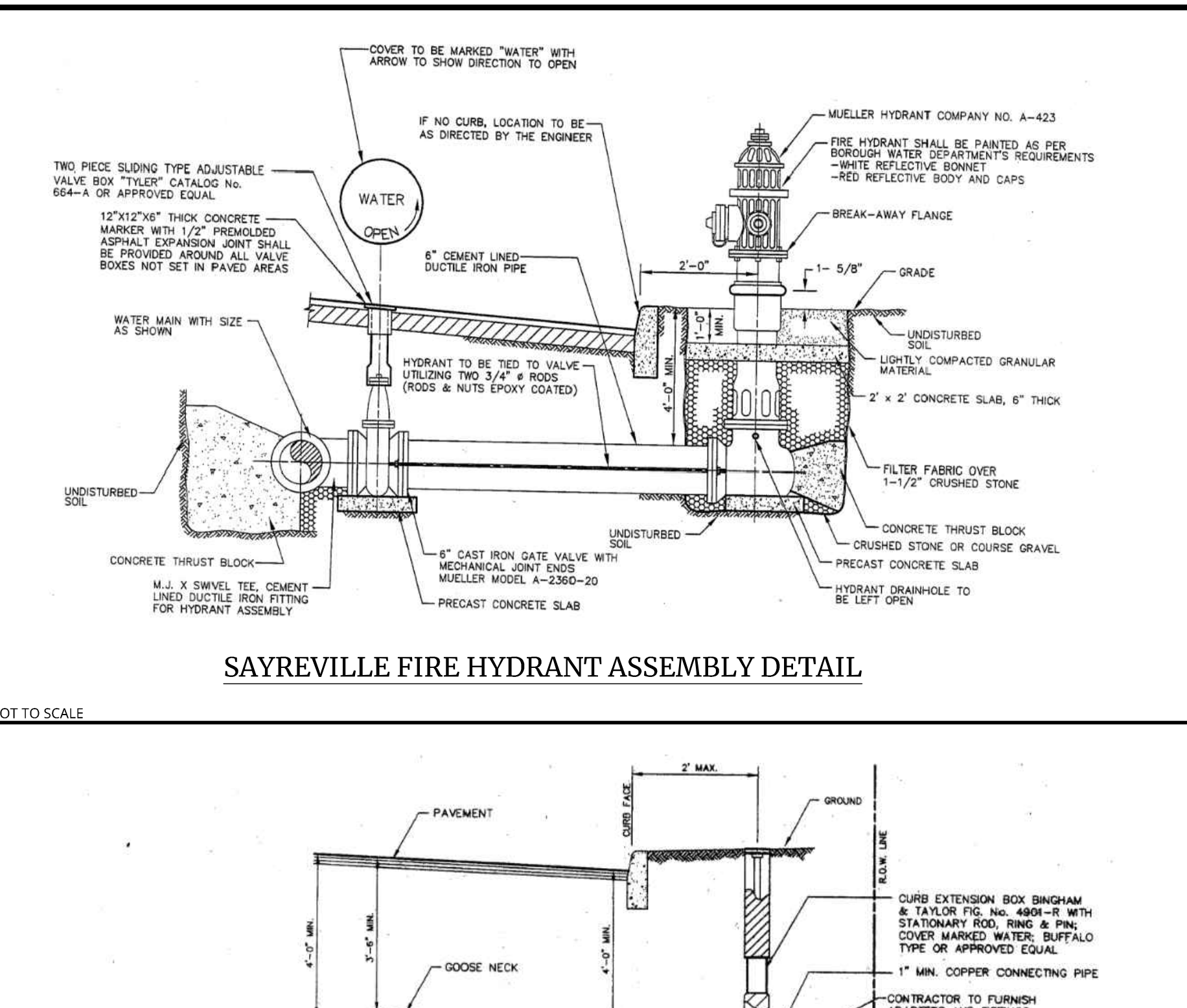
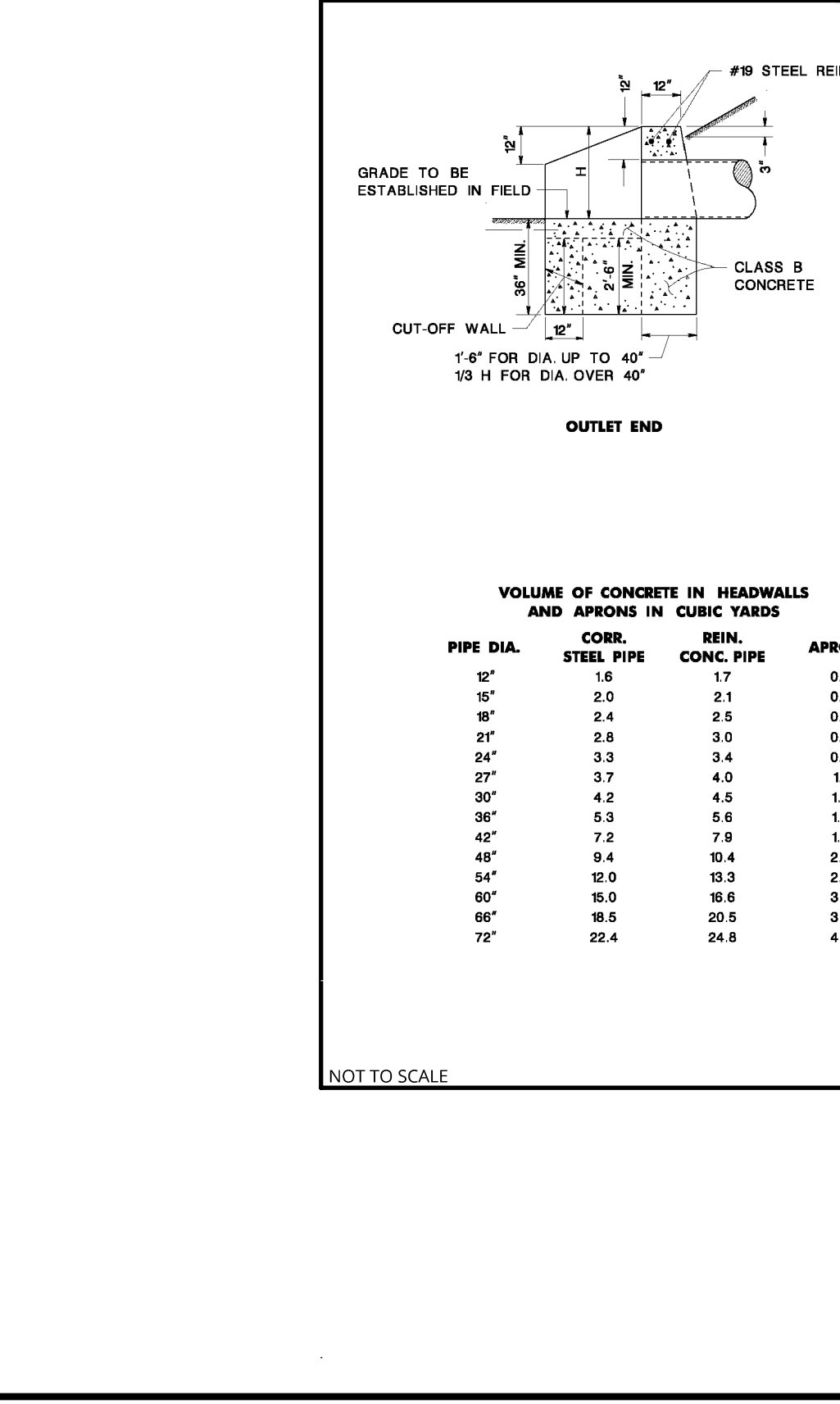
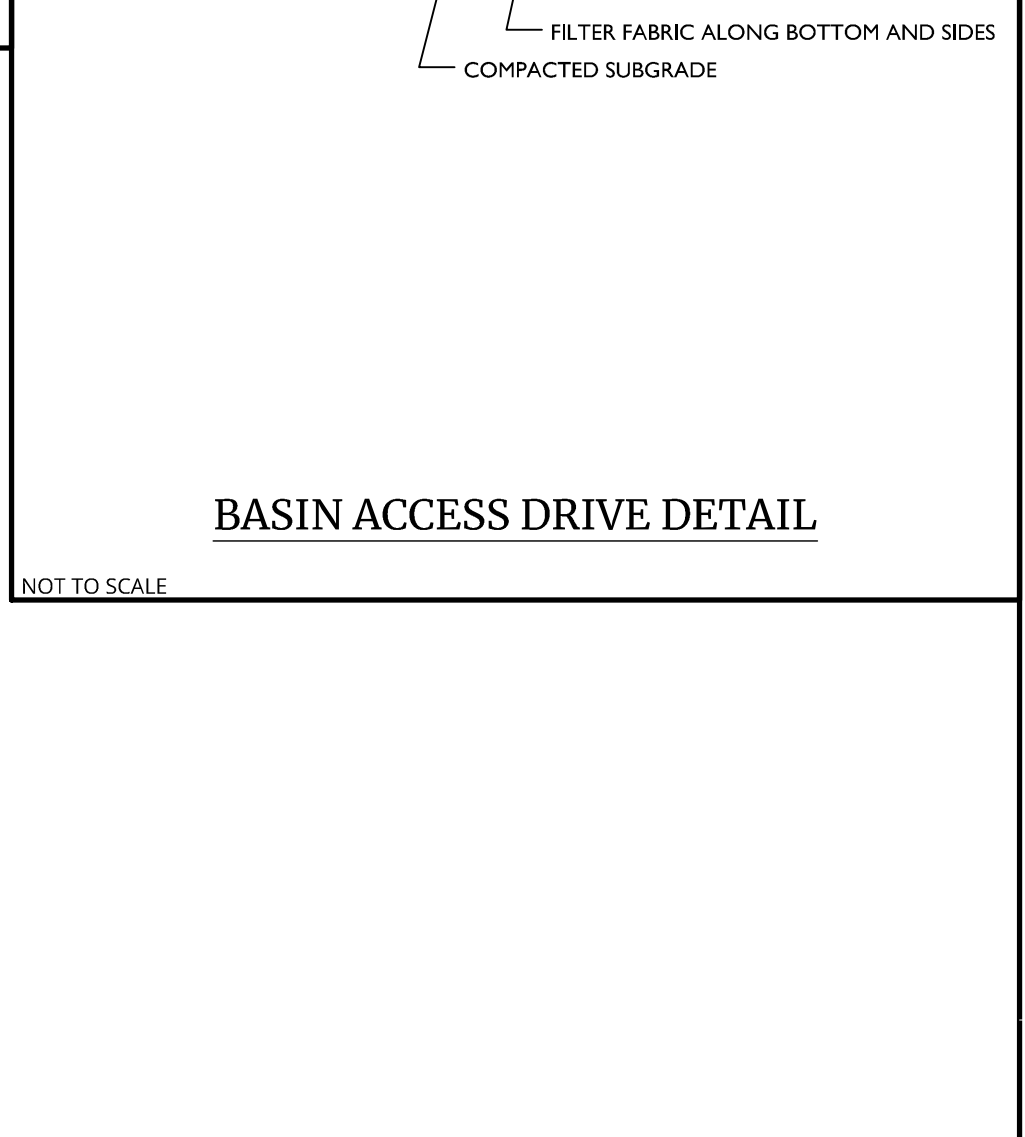
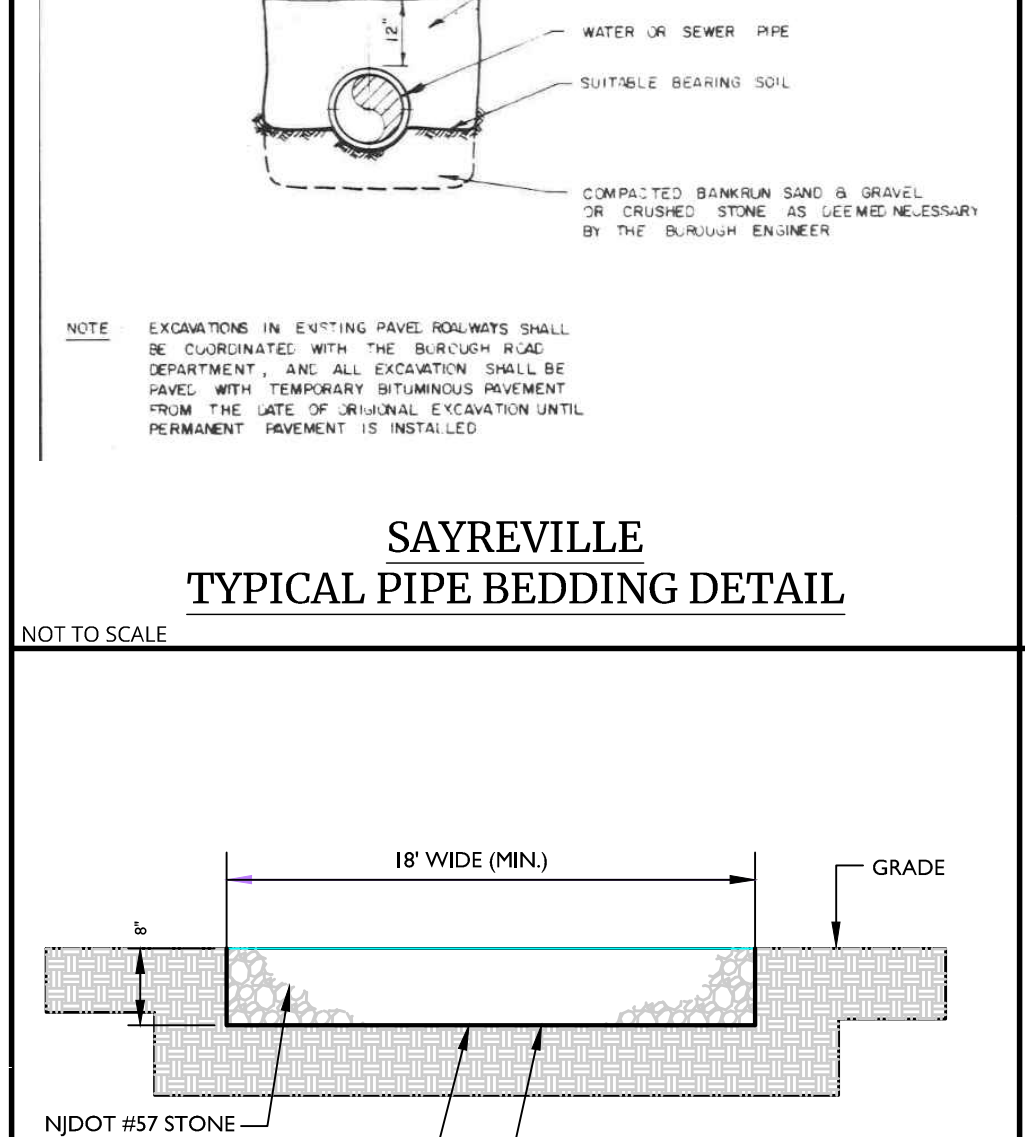
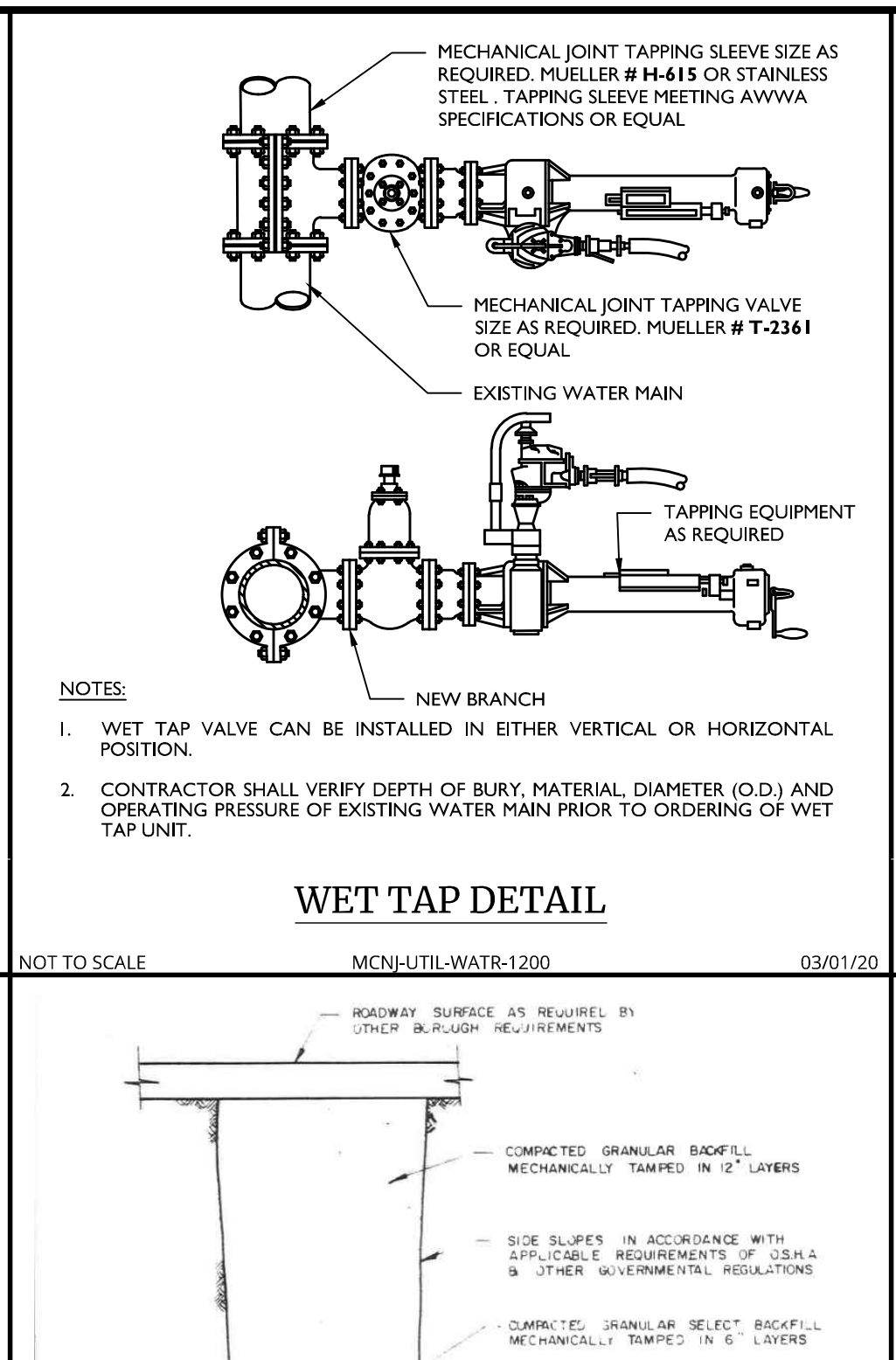
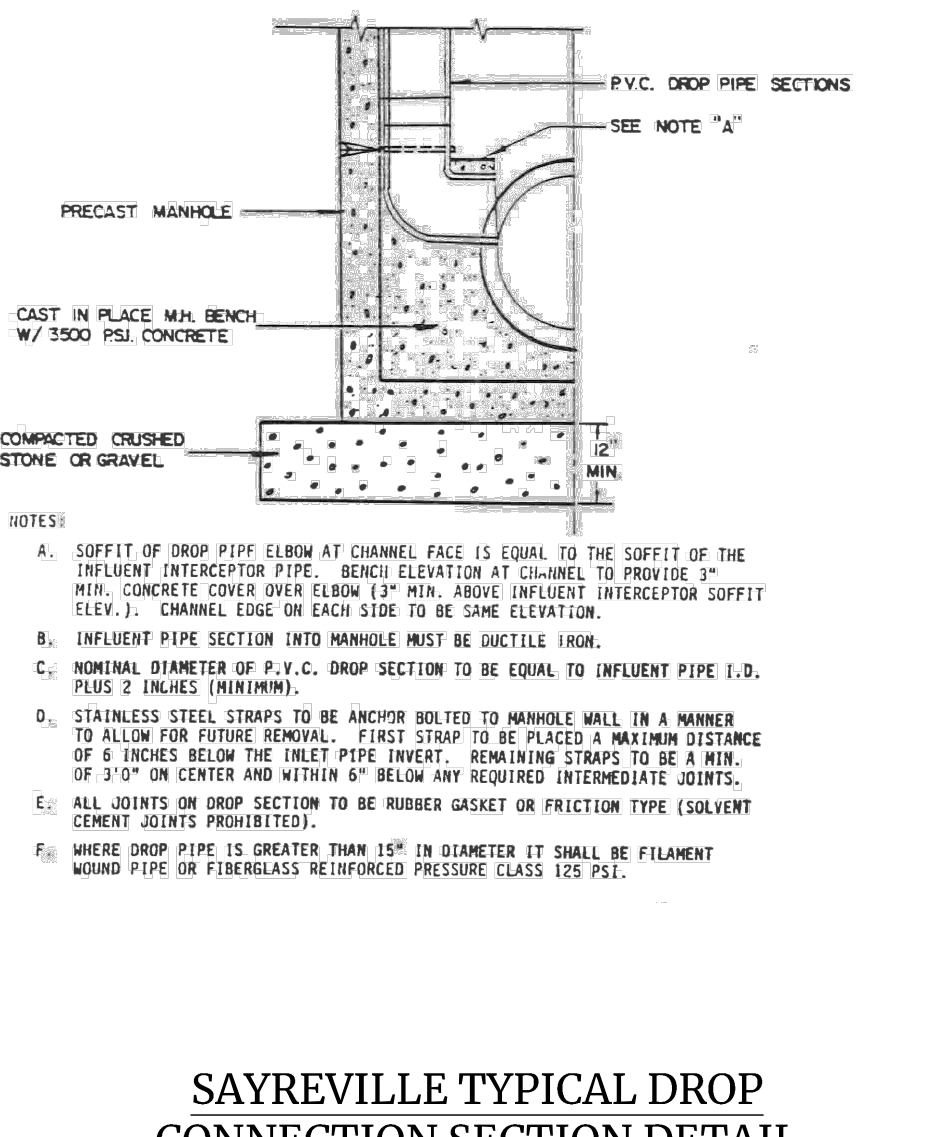
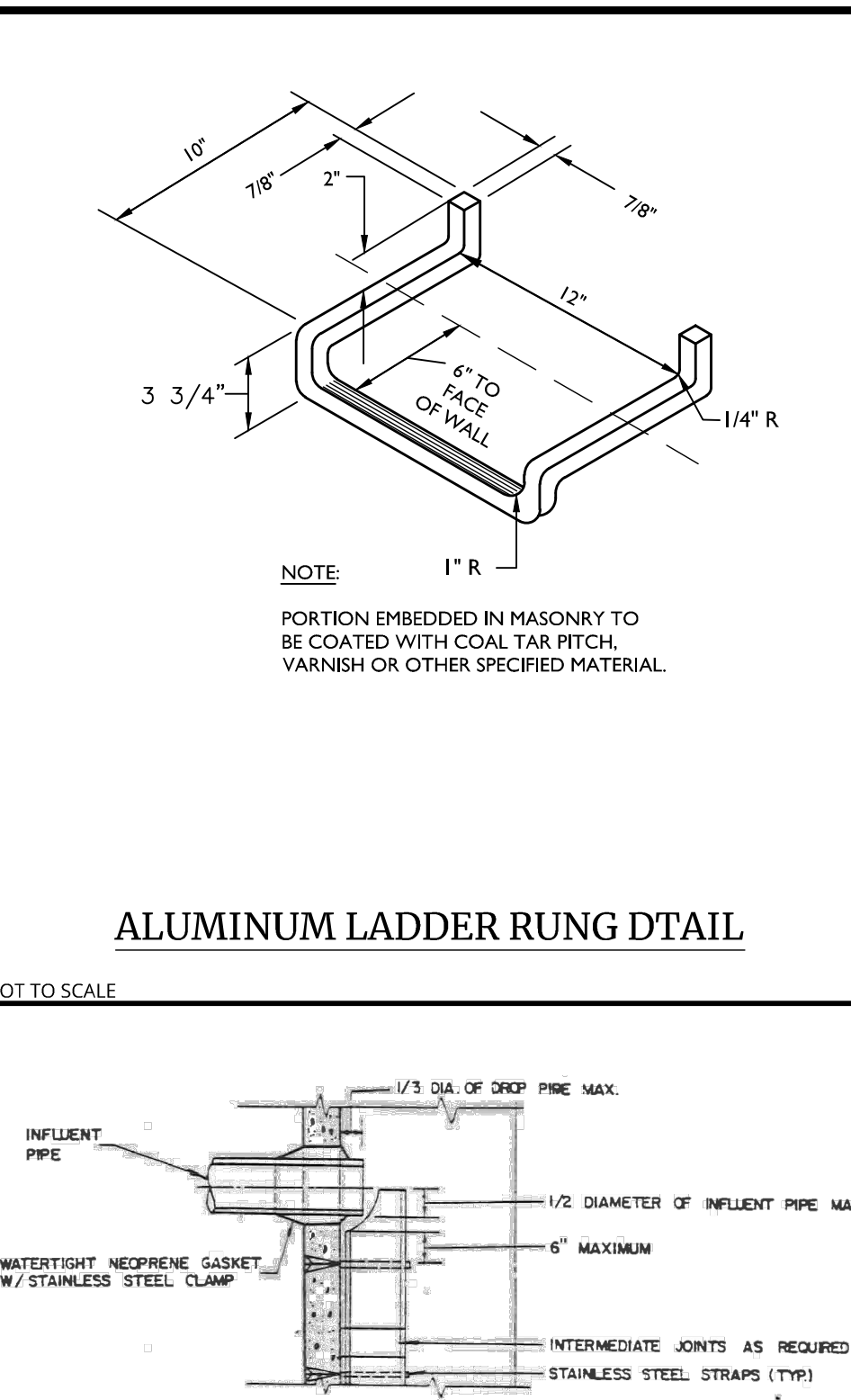
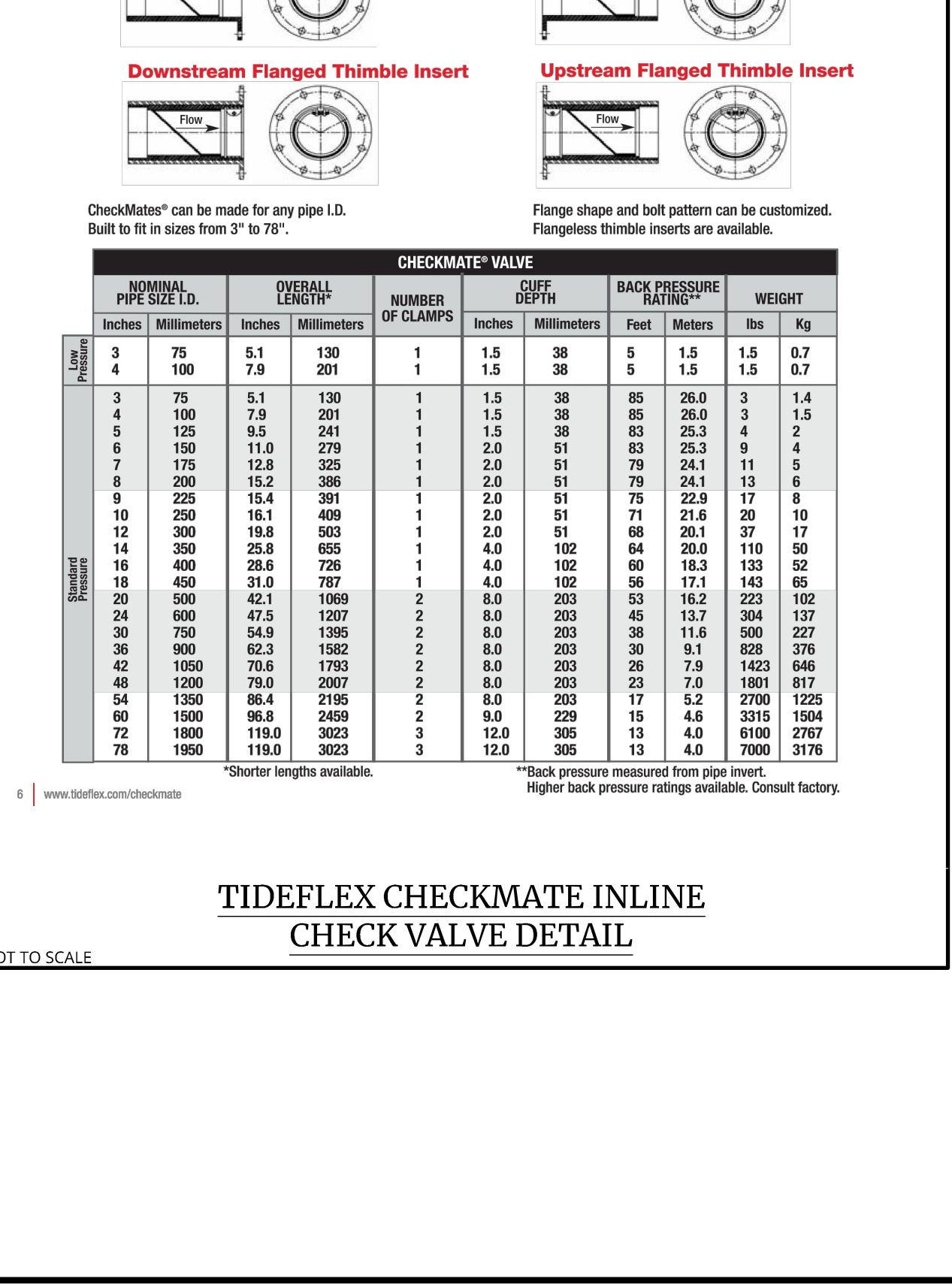
CheckMate® can be made for any pipe I.D. Built to fit in sizes from 2" to 72".

Flange shape and bolt pattern can be customized. Flangeless Thimble inserts are available.

PIPE SIZE I.D.	OVERALL LENGTH		NUMBER OF CLAMPS		CLIFF DEPTH	BACK PRESSURE		WEIGHT	
	Inches	Millimeters	Inches	Millimeters		Feet	Meters		Lbs
3	75	51	130	1	1.5	38	5	1.5	0.7
4	100	75	201	1	1.5	38	5	1.5	0.7
6	150	105	241	1	1.5	38	5	1.5	0.7
8	175	110	279	1	2.0	51	83	25.3	9.4
9	175	120	295	1	2.0	51	79	24.1	8.9
8	200	152	386	1	2.0	51	71	21.6	9.8
9	250	161	409	1	2.0	51	71	21.6	9.8
12	300	195	495	1	2.0	51	69	20.1	9.1
14	300	258	655	1	4.0	102	64	20.0	10.0
16	400	283	728	1	4.0	102	60	18.3	8.3
18	400	310	787	1	4.0	102	56	17.1	7.8
20	400	421	1060	2	8.0	203	63	18.0	8.2
24	600	475	1207	2	8.0	203	45	13.7	6.2
30	600	543	1386	2	8.0	203	30	9.0	4.1
36	800	623	1582	2	8.0	203	30	9.1	4.2
48	1000	763	1960	2	8.0	203	30	9.1	4.2
48	1200	79.0	2087	2	8.0	203	33	7.0	3.2
60	1500	86.4	2365	2	8.0	203	17	4.2	1.9
60	1800	88.1	2489	2	8.0	203	15	4.6	2.1
72	1800	119.0	3023	3	12.0	305	30	8.0	3.6
72	1800	119.0	3023	3	12.0	305	13	4.0	1.8

NOTES:

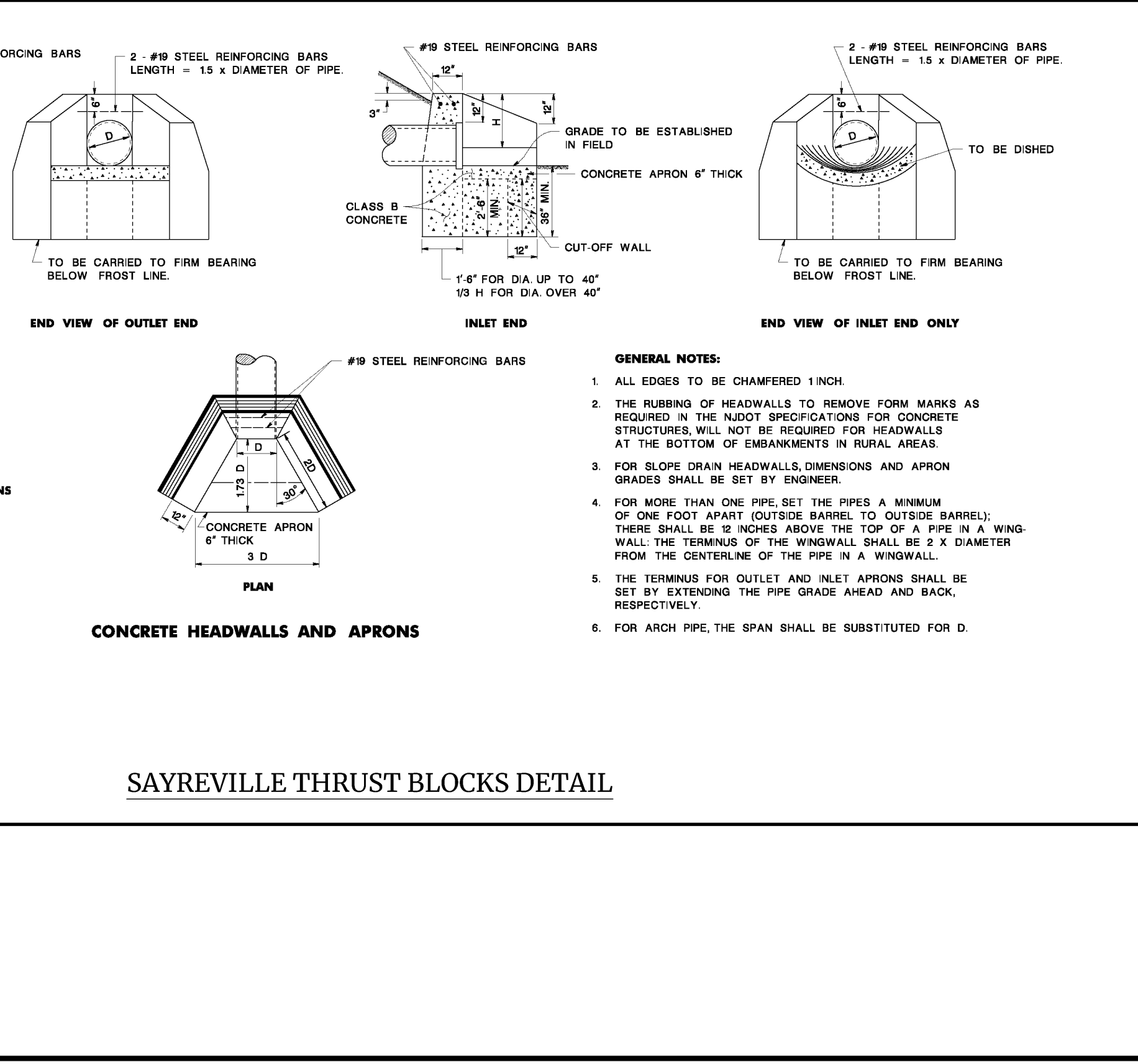
- REINFORCING IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR CONCRETE PIPE ASTM C76 AND ASTM M193 CLASS III FOR THE SIZE OF CONNECTING PIPE.
- ALL CONCRETE SHALL BE "NDOT CLASS "B".
- VARIATIONS IN MANUFACTURING DIMENSIONS SHALL BE AS CALLED FOR IN ASTM C76 AND ASTM M193.
- PIPE END SECTION CONNECTION SHALL MATCH JOINTS OF STANDARD PIPE DETAILS.



SAYREVILLE THRUST BLOCKS DETAIL

DESCRIPTION OF FITTINGS	MINIMUM DIMENSIONS	THRUST BLOCK SCHEDULE			
		6"	8"	10"	12"
TEES	D	1.25	1.5	1.75	2.0
90° BENDS	D	1.25	1.5	1.75	2.0
45° BENDS	D	1.25	1.5	1.75	2.0
22 1/2° BENDS	D	1.25	1.5	1.75	2.0
11 1/4° BENDS	D	1.25	1.5	1.75	2.0
CAPS	D	1.25	1.5	1.75	2.0

NOTE: ALL WOOD DIMENSIONS IN FEET.



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1	05/01/17	ISSUE FOR PERMIT	RM	DB
2	05/01/17	REVISIONS	RM	DB
3	05/01/17	REVISIONS	RM	DB
4	05/01/17	REVISIONS	RM	DB

Michael Stickle
NEW JERSEY LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: GE5788
COLLIERS ENGINEERING & DESIGN, INC.
N.J. C.O.A.#: 2642796500

PRELIMINARY AND FINAL MAJOR SITE PLAN

FOR **JERNEE MILL INDUSTRIAL**

BLOCK 58
LOTS 2.01 & 9

BOROUGH OF SAYREVILLE
MIDDLESEX COUNTY
NEW JERSEY

Colliers Engineering & Design

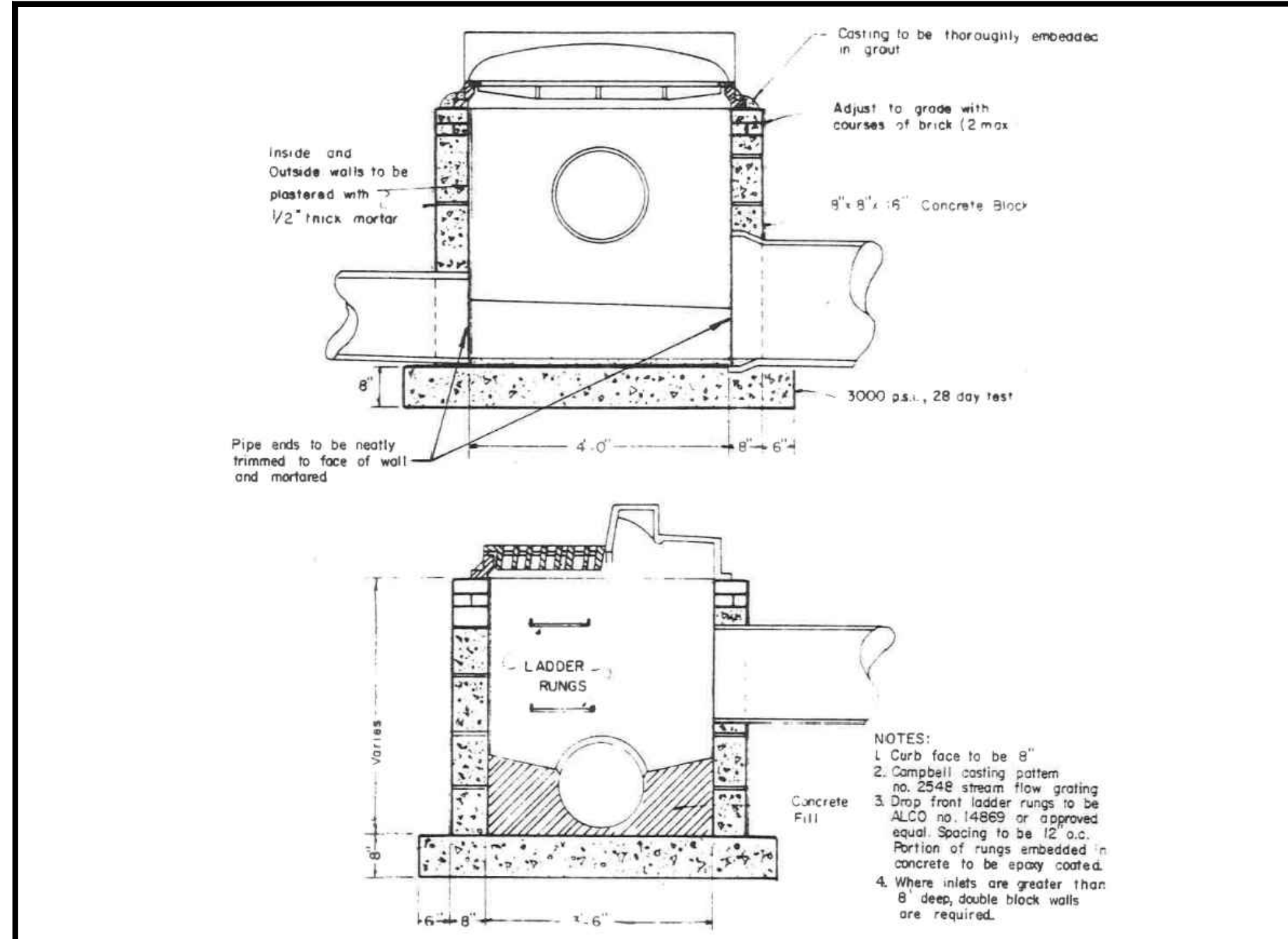
HOLMDEL (Headquarters)
101 Conventers Corner Road,
Suite 3400
Holmdel, NJ 07733
Phone: 732.983.1950
COLLIERS ENGINEERING & DESIGN, INC.
CORP. BUSINESS ADDRESS: 4000 COLLIERS BLVD.

SCALE: AS SHOWN DATE: 6/12/2023 DRAWN BY: RM CHECKED BY: DB
PROJECT NUMBER: 1000657C DRAWING NAME: C-0115

SHEET TITLE: CONSTRUCTION DETAILS

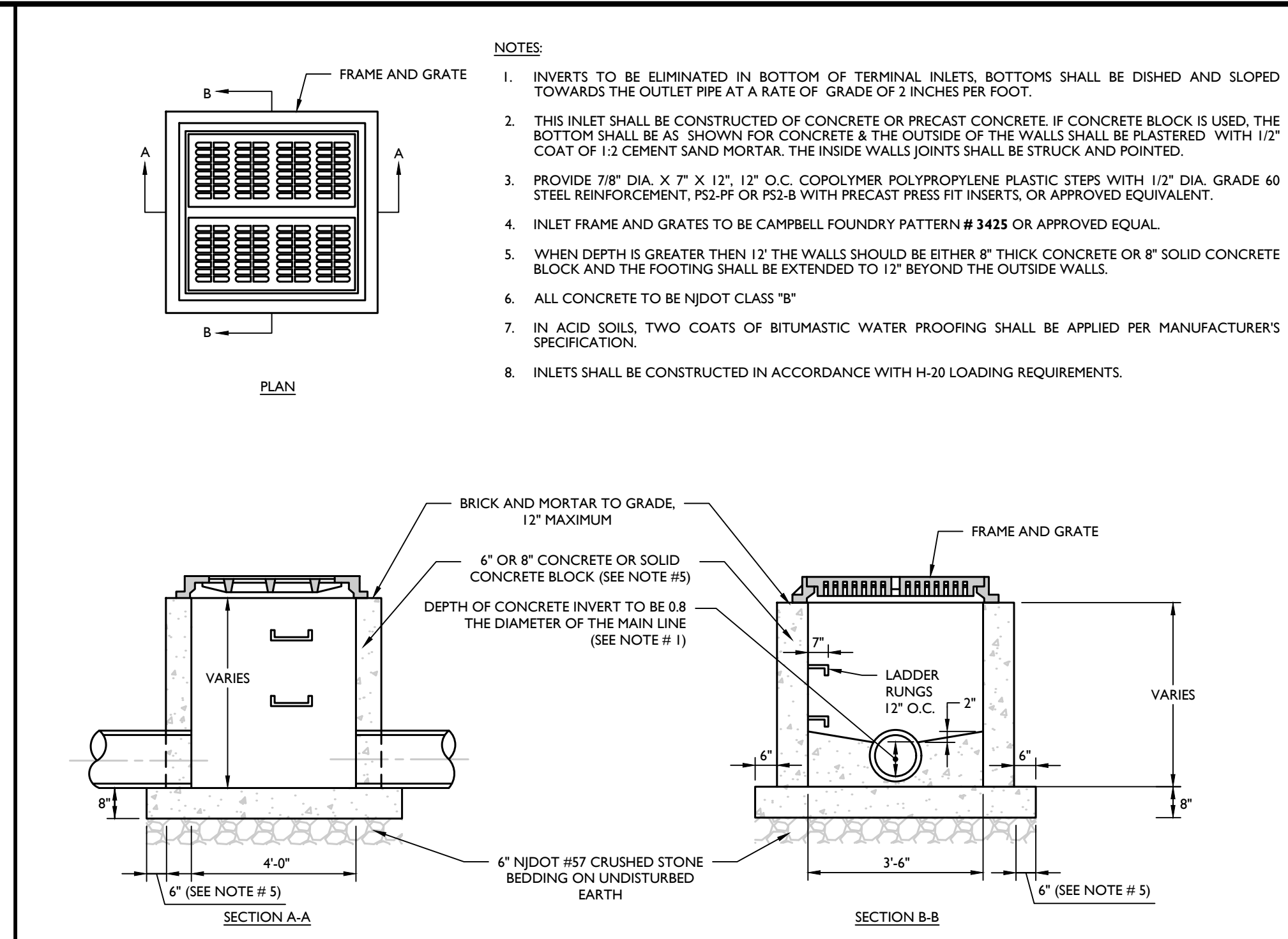
SHEET NUMBER: 30 of 37

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



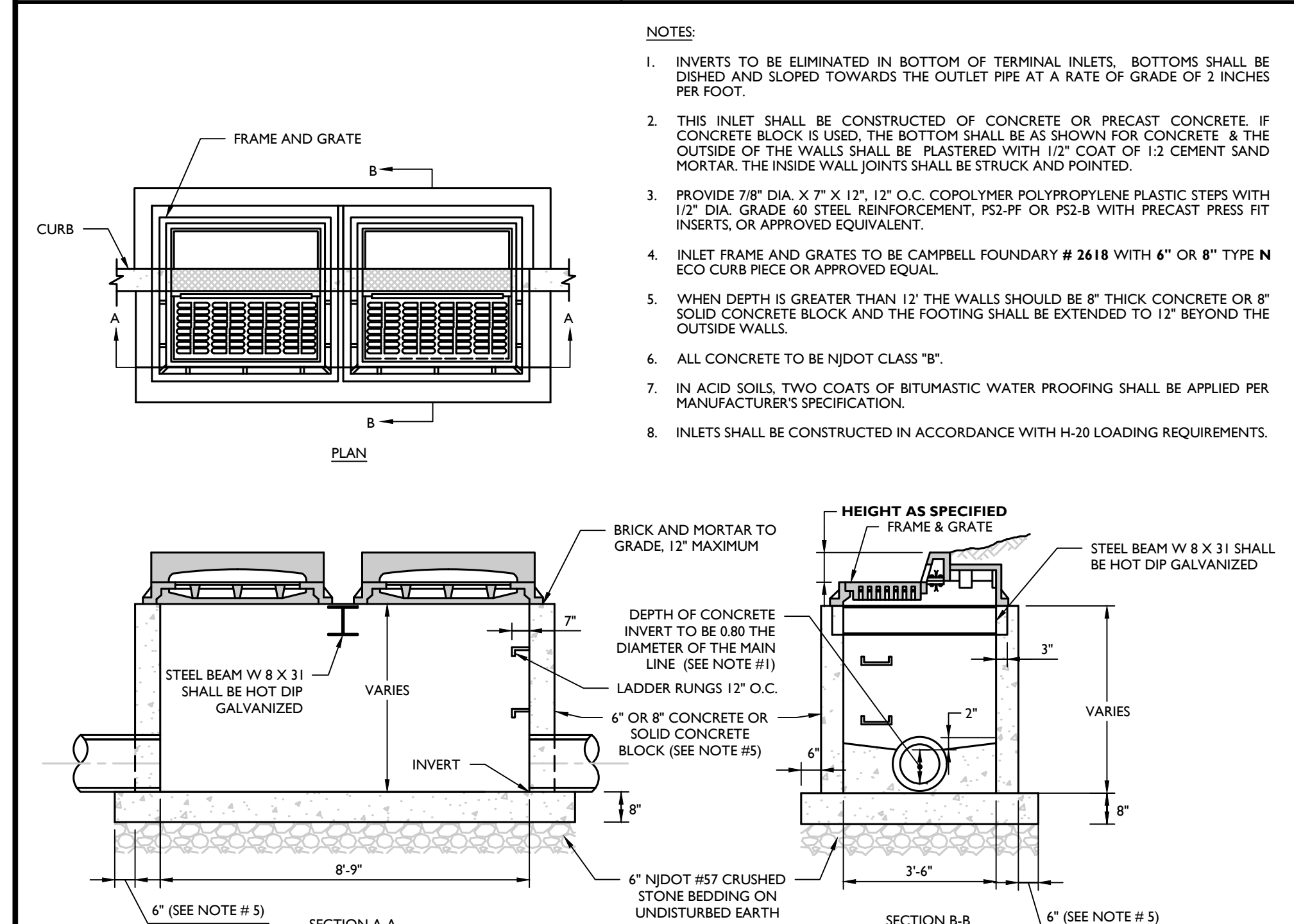
TYPE "B" INLET DETAIL

NOT TO SCALE MCNJ-UTIL-STRM-1100 MOD: 06/21/24 02/01/19



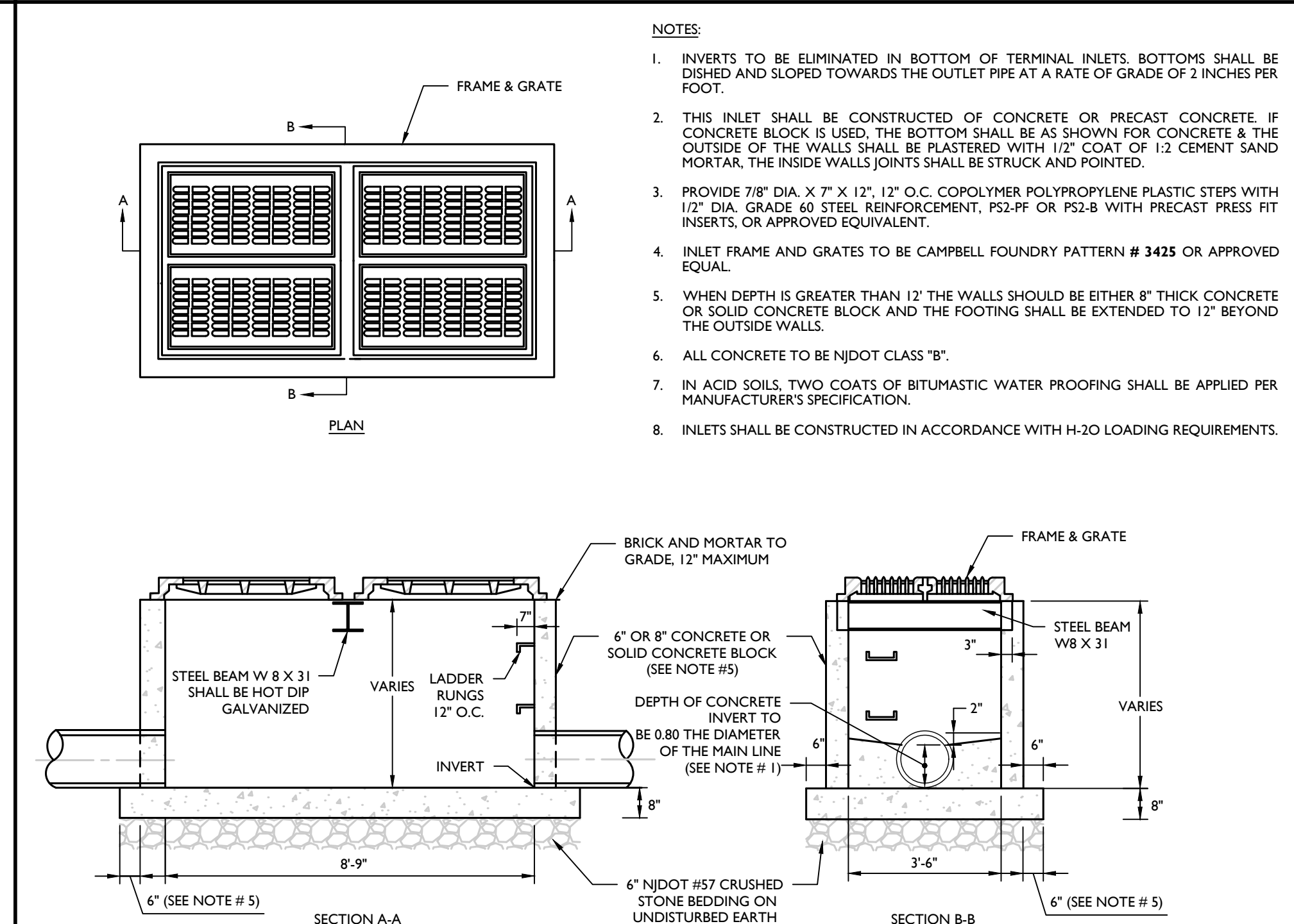
TYPE "E" INLET DETAIL

NOT TO SCALE MCNJ-UTIL-STRM-1200 02/01/19



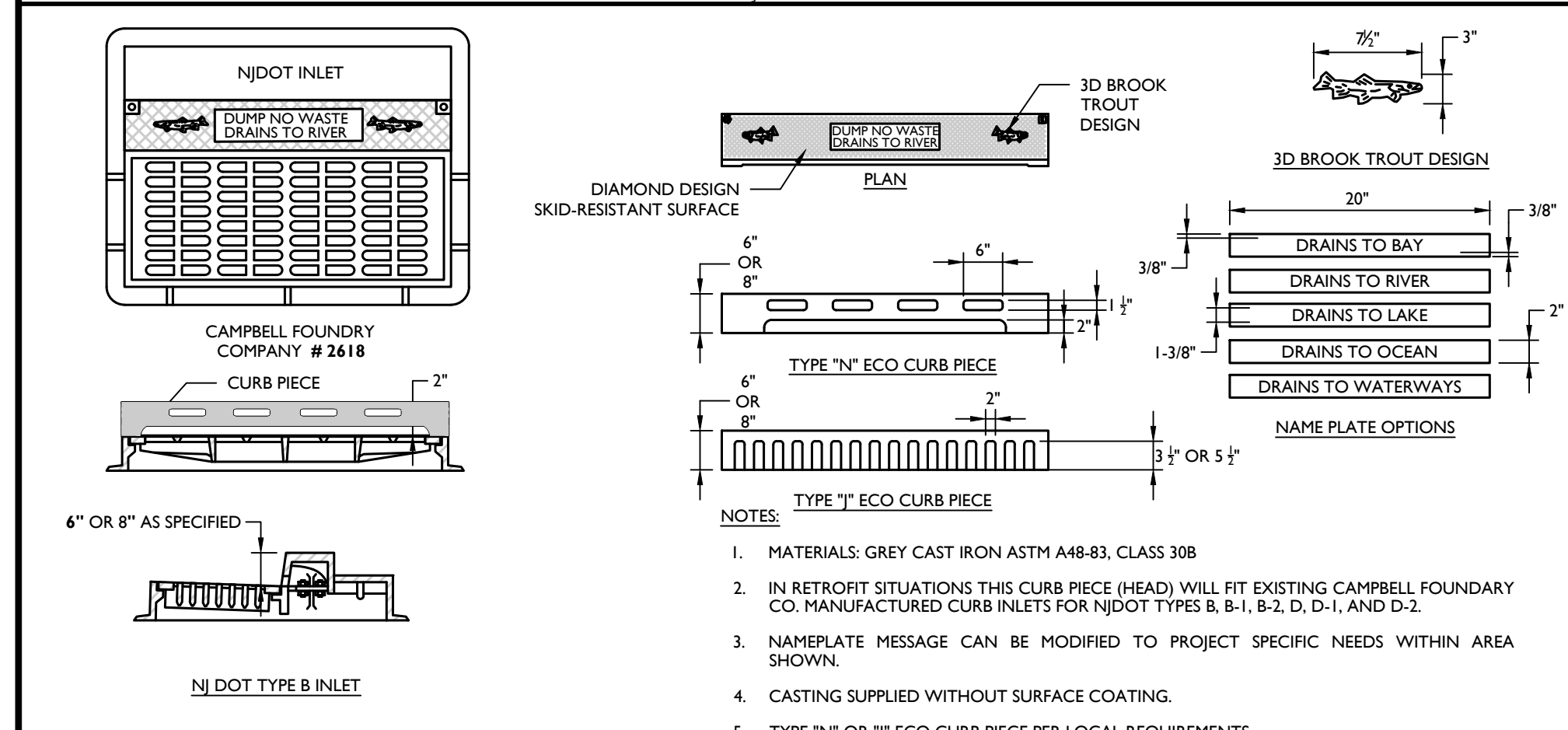
TYPE "DOUBLE B" INLET DETAIL

NOT TO SCALE MCNJ-UTIL-STRM-1101 02/01/19



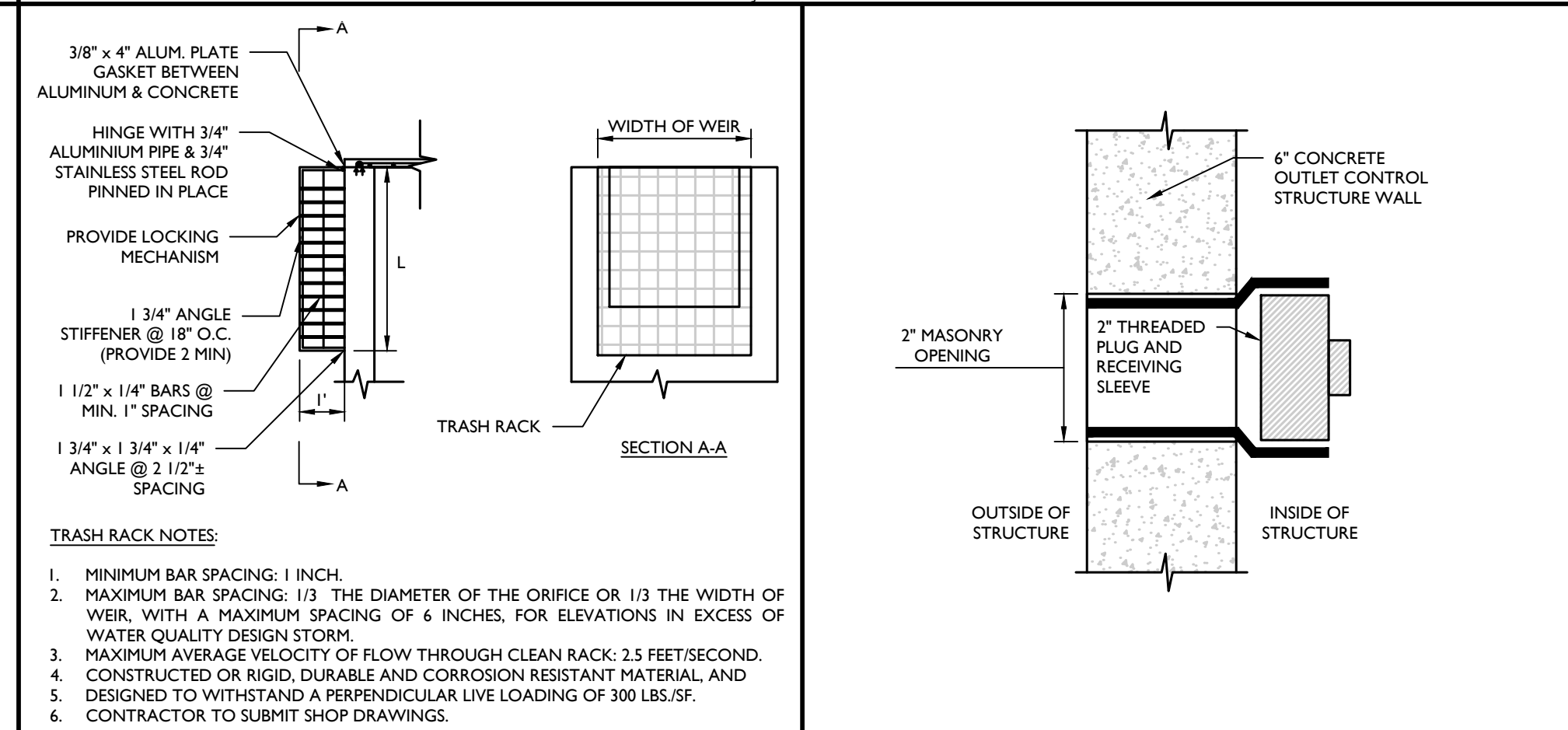
TYPE "DOUBLE E" INLET DETAIL

NOT TO SCALE MCNJ-UTIL-STRM-1201 02/01/19



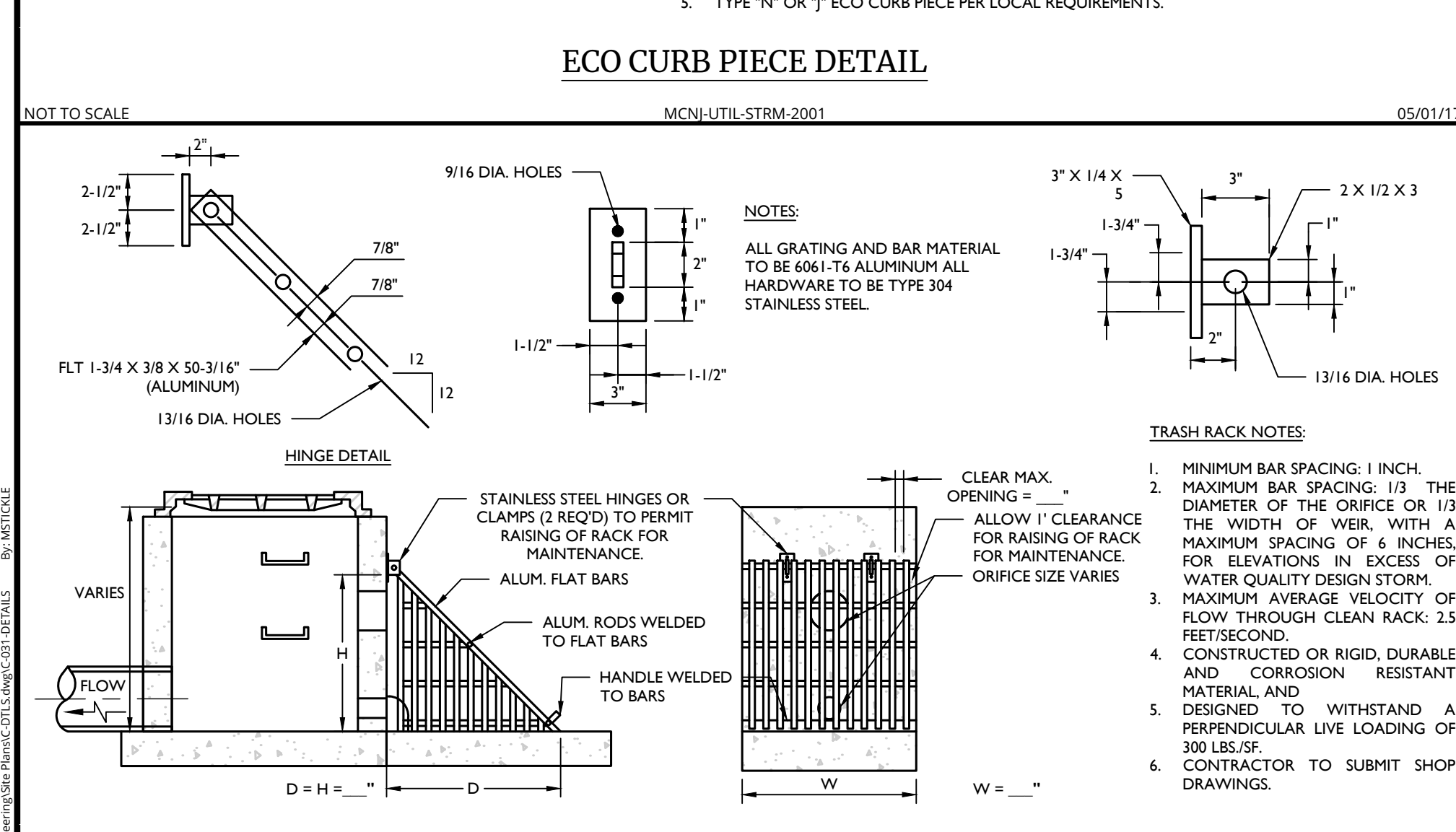
ECO CURB PIECE DETAIL

NOT TO SCALE MCNJ-UTIL-STRM-2001 05/01/17



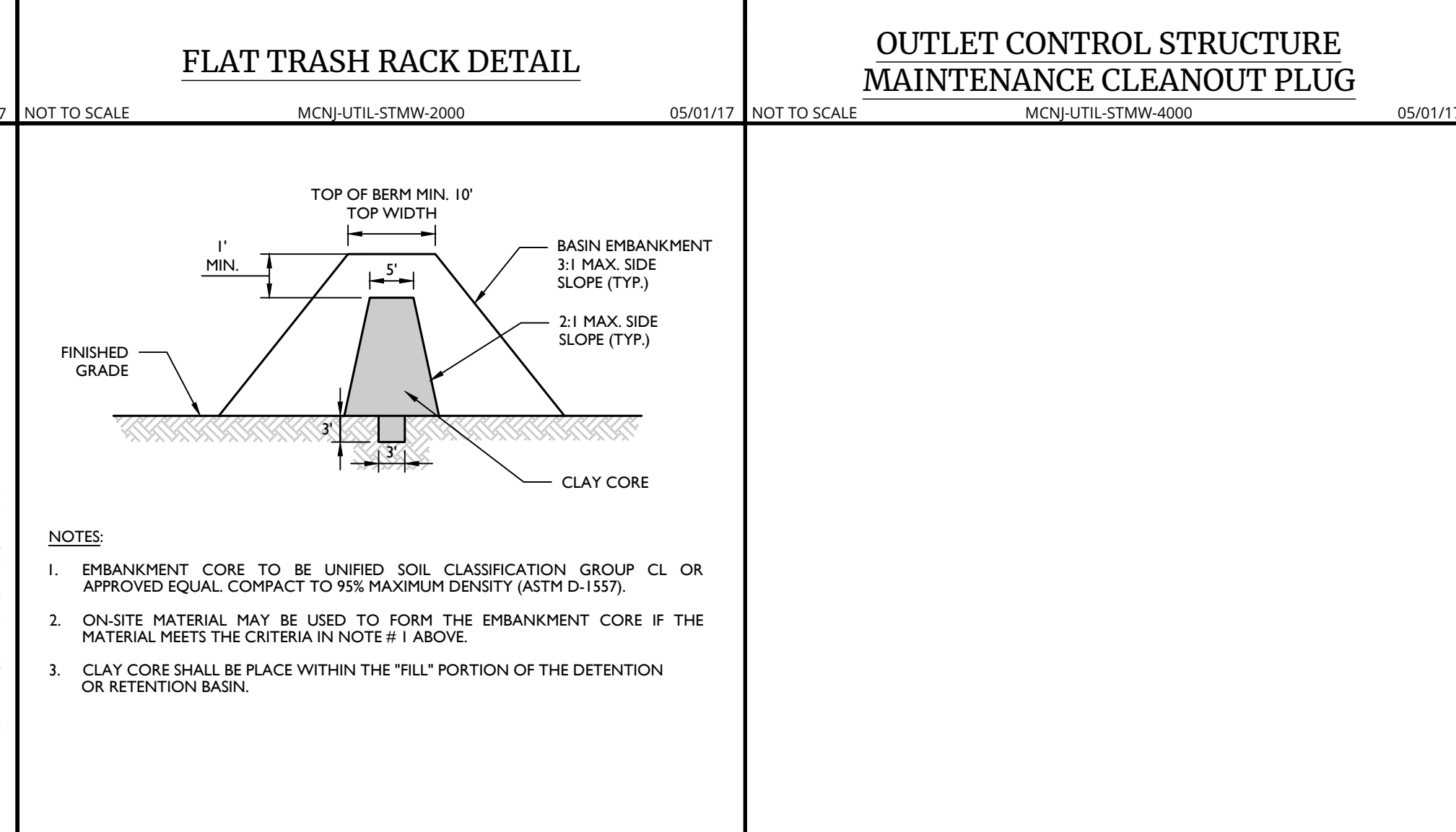
FLAT TRASH RACK DETAIL

NOT TO SCALE MCNJ-UTIL-STMW-2000 05/01/17



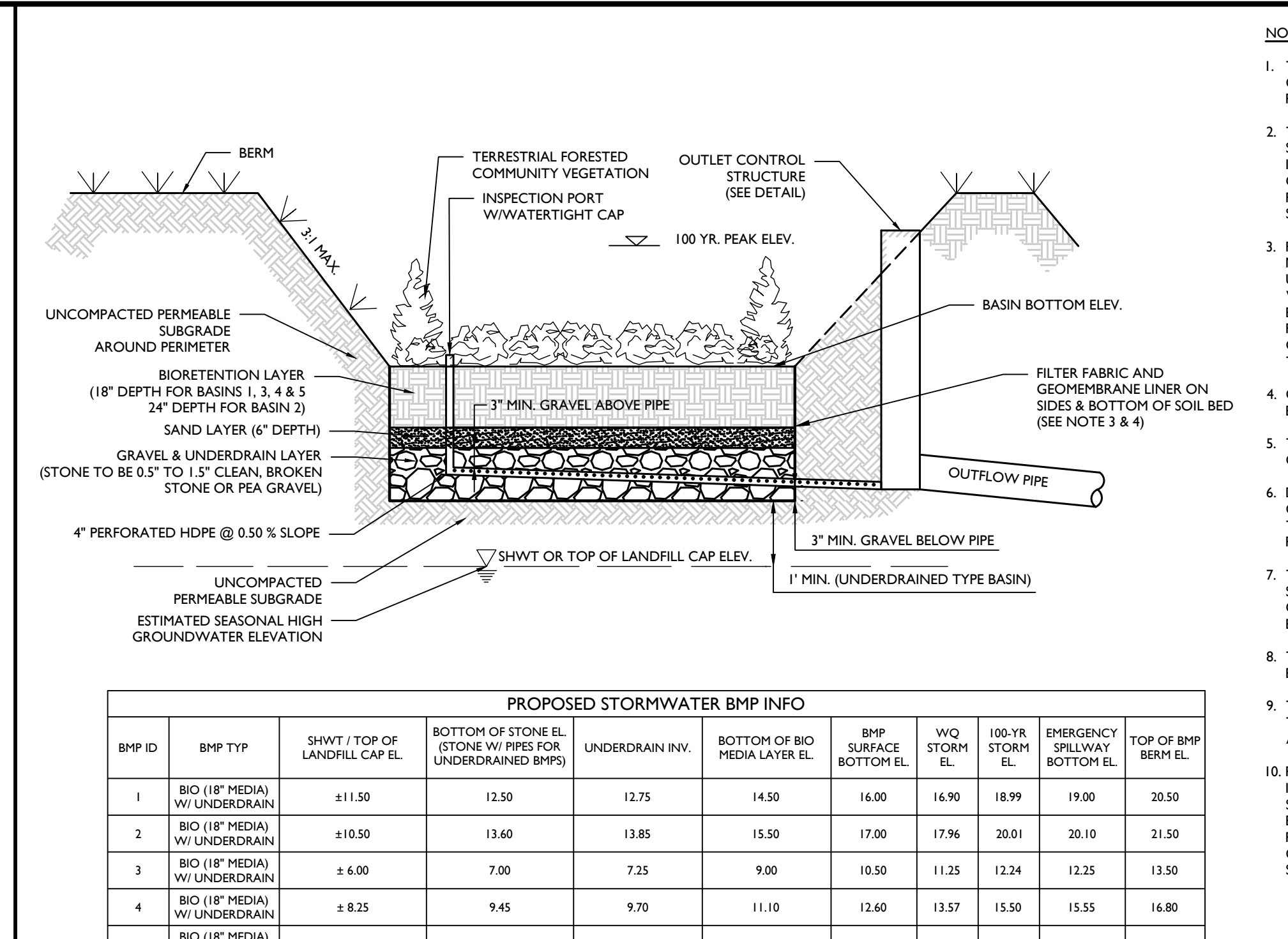
SLANTED TRASH RACK DETAIL

NOT TO SCALE MCNJ-UTIL-STMW-2002 06/01/19



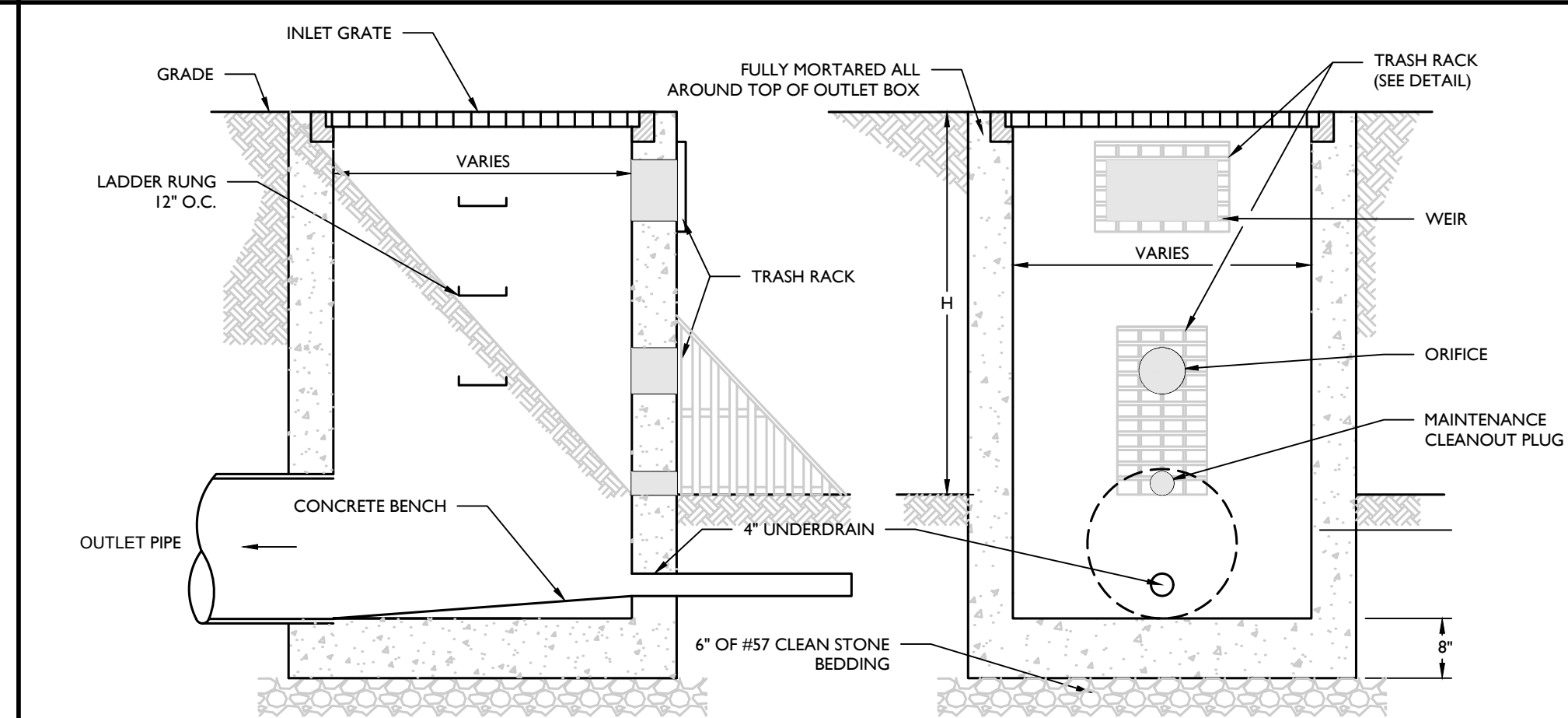
BASIN CLAY CORE DETAIL

NOT TO SCALE MCNJ-UTIL-STMW-2100 05/01/17



BIORETENTION BASIN CROSS-SECTION DETAIL

NOT TO SCALE MCNJ-UTIL-STRM-GRD 02/01/19



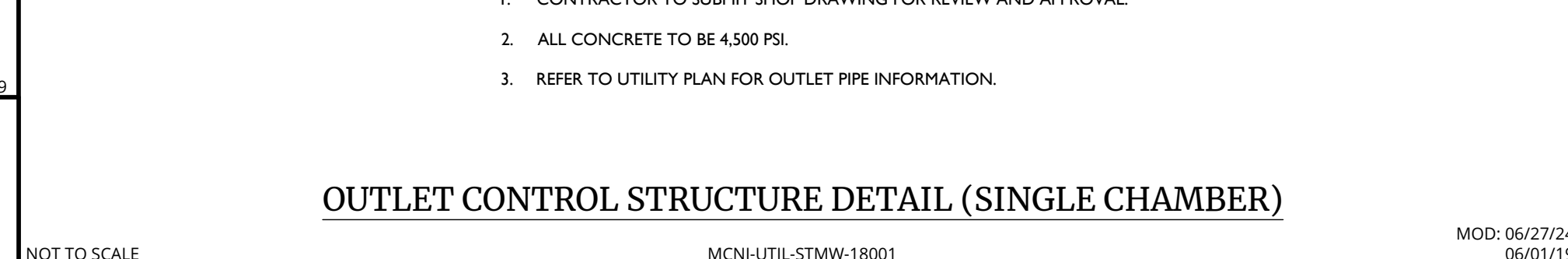
OUTLET CONTROL STRUCTURE DETAIL (SINGLE CHAMBER)

NOT TO SCALE MCNJ-UTIL-STMW-18001 MOD: 06/21/24 06/01/19

BMP ID	BMP TYPE	SHWT / TOP OF LANDFILL CAP EL.	BOTTOM OF STONE EL. (STONE W/ PIPES FOR UNDERDRAINED BMP)	UNDERDRAIN INV.	BOTTOM OF BIO MEDIA LAYER EL.	BMP SURFACE BOTTOM EL.	WQ STORM EL.	100-YR STORM EL.	EMERGENCY SPILLWAY BOTTOM EL.	TOP OF BMP BERM EL.
1	BO (18\"/>									

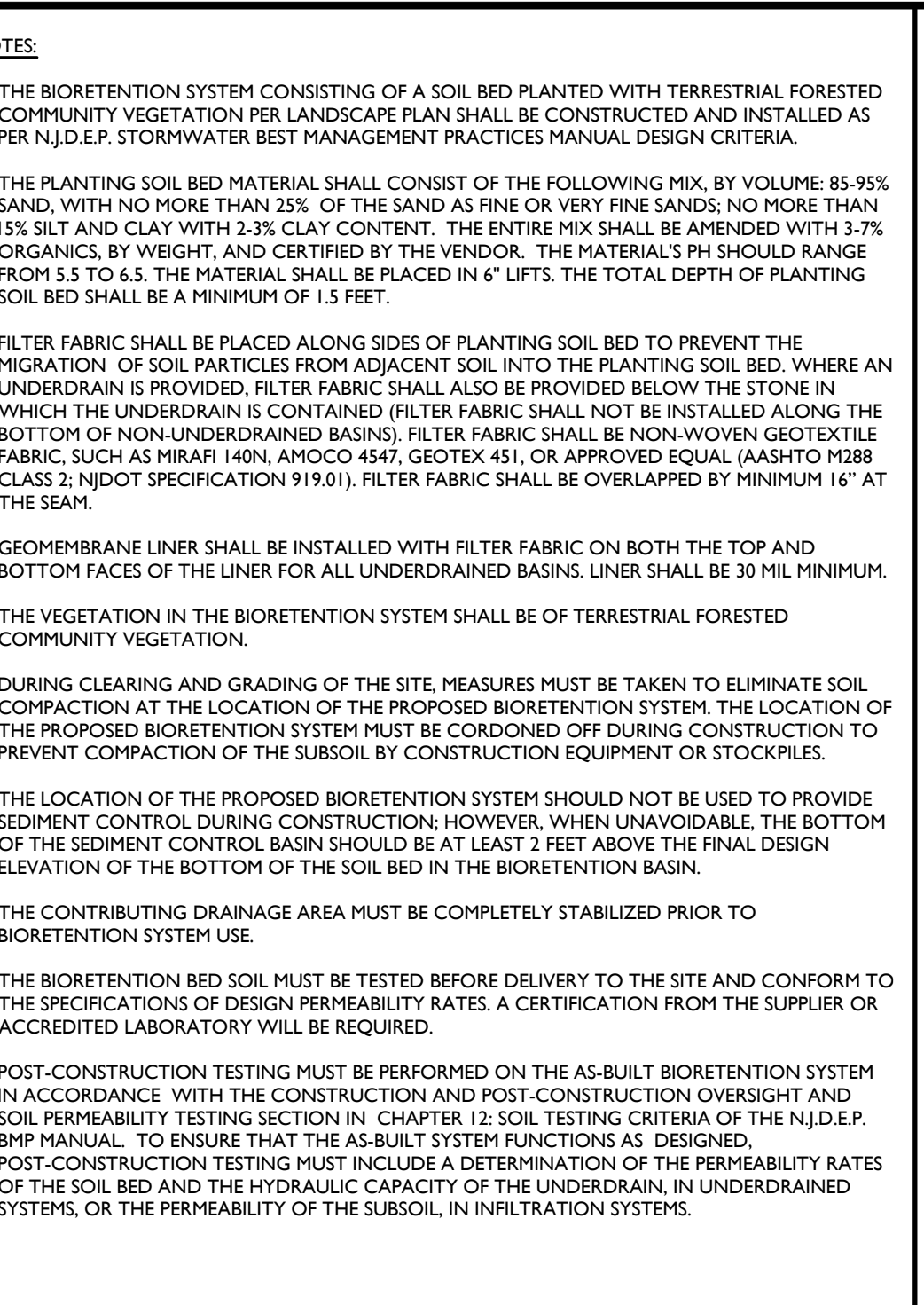
BASIN #	OCS ID	GRATE ELEVATION	ORIFICE / WEIR #1	ORIFICE / WEIR #2	ORIFICE / WEIR #3	ORIFICE / WEIR #4
1	S-88	EL. 18.85	2.5 IN AT EL. 16.90	3.5 FT WEIR AT EL. 18.00	N/A	N/A
2	S-53	EL. 20.05	2.5 IN AT EL. 18.00	3.5 FT WEIR AT EL. 19.00	N/A	N/A
3	S-33	EL. 12.10	3.5 FT WEIR AT EL. 11.25	N/A	N/A	N/A
4	S-12C	EL. 15.40	2 X 5.6 IN AT EL. 13.60	1.1 FT WEIR AT EL. 14.50	N/A	N/A
5	S-11	EL. 15.40	2 X 5.6 IN AT EL. 13.60	2.0 FT WEIR AT EL. 14.50	N/A	N/A
UG 1 & 2	S-21	N/A	2.5 IN AT EL. 14.50	2 X 4.8 IN AT EL. 15.50	2 X 4.0 IN AT EL. 17.10	2.7 FT WEIR AT EL. 18.50

NOT TO SCALE MCNJ-UTIL-STMW-2300 05/01/17



UNDERGROUND DETENTION BASIN (CLOSED SYSTEM) DETAIL

NOT TO SCALE MCNJ-UTIL-STMW-14001 05/01/18



EMERGENCY SPILLWAY DETAIL

NOT TO SCALE MCNJ-UTIL-STMW-2300 05/01/17

BASIN #	A	B	C	D
1	EL. 20.50	EL. 19.00	50 FT.	62 FT.
2	EL. 21.50	EL. 20.10	40 FT.	51.2 FT.
3	EL. 13.55	EL. 12.25	40 FT.	70.4 FT.
4/5	EL. 16.80	EL. 15.55	130 FT.	140 FT.

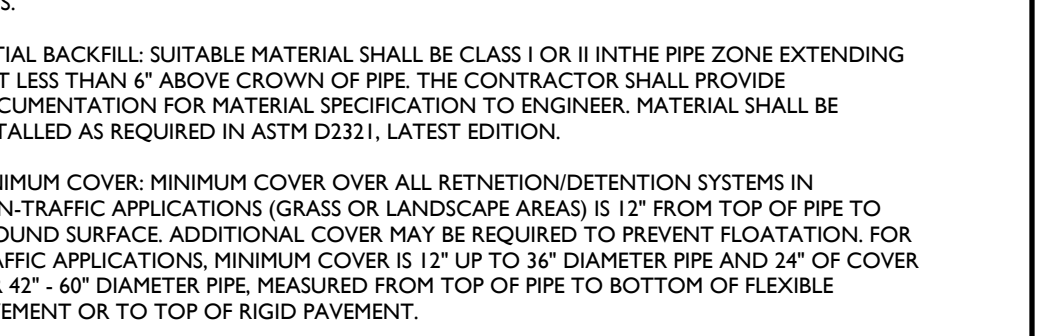
NOT TO SCALE MCNJ-UTIL-STMW-2300 05/01/17



NOT TO SCALE MCNJ-UTIL-STMW-14001 05/01/18

BMP ID	SHWT / TOP OF LANDFILL CAP EL.	TOP OF STONE EL.	BOTTOM OF STONE EL.	PIPE INVERT OF SYSTEM	WQ STORM EL.	100-YR STORM EL.
UG BASIN 1 & 2	27.00 (B-4)	19.50	14.50	15.50	14.25	19.34

NOT TO SCALE MCNJ-UTIL-STMW-14001 05/01/18



NOT TO SCALE MCNJ-UTIL-STMW-14001 05/01/18

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REV	DATE	DESCRIPTION
1	05/01/17	ISSUED FOR PERMIT
2	05/01/17	ISSUED FOR PERMIT
3	05/01/17	ISSUED FOR PERMIT
4	05/01/17	ISSUED FOR PERMIT
5	05/01/17	ISSUED FOR PERMIT

REV	DATE	DESCRIPTION
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2	05/01/17	ISSUED FOR PERMIT
3	05/01/17	ISSUED FOR PERMIT
4	05/01/17	ISSUED FOR PERMIT
5	05/01/17	ISSUED FOR PERMIT

REV	DATE	DESCRIPTION
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2	05/01/17	ISSUED FOR PERMIT
3	05/01/17	ISSUED FOR PERMIT
4	05/01/17	ISSUED FOR PERMIT
5	05/01/17	ISSUED FOR PERMIT

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3	05/01/17	ISSUED FOR PERMIT
4	05/01/17	ISSUED FOR PERMIT
5	05/01/17	ISSUED FOR PERMIT

Michael Stickle
NEW JERSEY LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: GE57838
COLLIERS ENGINEERING & DESIGN, INC.
N.J. C.O. #: 2642796650

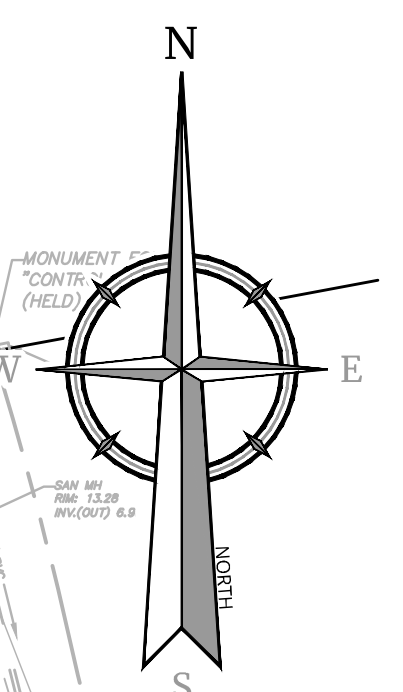
PRELIMINARY AND FINAL
MAJOR SITE PLAN
FOR
JERNEE MILL INDUSTRIAL

BLOCK 58
LOTS 2.01 & 9
BOROUGH OF SAYREVILLE
MIDDLESEX COUNTY
NEW JERSEY

Colliers
Engineering & Design
HOLMDEL (Headquarters)
101 Crawford Corner Road
Suite 3400
Holmdel, NJ 07733
Phone: 732.983.1950
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER COMPANY

SCALE: AS SHOWN
DATE: 6/12/2023
PROJECT NUMBER: 10000657C
DRAWING NAME: C-0115

SHEET TITLE: CONSTRUCTION DETAILS
SHEET NUMBER: 31 of 37



BLOCK 58
LOT 5
N/F JOHN C. POLAK, SR.
D.B. 5287, PG. 48

BLOCK 58
LOT 8
N/F DUPONT SPECIALTY
PRODUCTS USA, LLC
D.B. 17420, 1531

BLOCK 57.0
LOT 1
N/F LEAF INDUSTRIES

BLOCK 58
LOT 1

PROPOSED LIMIT OF
DISTURBANCE (TYP.)

PROPOSED
TREELINE (TYP.)

STUDY BLOCK
#3

100' X 100' STUDY
BLOCK (TYP.)

STUDY BLOCK
#2

STUDY BLOCK
#1

BLOCK 58
LOT 9
N/F DUPONT SPECIALTY
PRODUCTS USA, LLC
D.B. 17420,
PG. 1531

POND CREEK

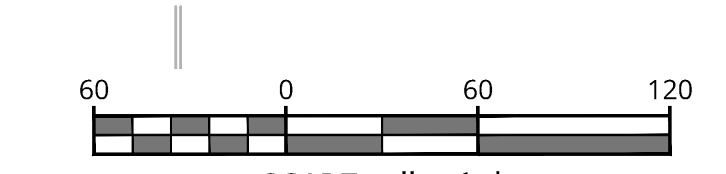
SOUTH RIVER

DUCK

BLOCK 56
LOT 1.02
N/F BOROUGH OF
SAYREVILLE

BLOCK 56
LOT 1.02
N/F BOROUGH OF
SAYREVILLE

BLOCK 56.01
LOT 1
N/F BOROUGH OF SAYREVILLE



REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY



Michael Stickle
NEW JERSEY LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: GE57838
COLLIERS ENGINEERING & DESIGN, INC.
N.J. C.O.A.#: 0462798650

PRELIMINARY AND FINAL
MAJOR SITE PLAN
FOR
JERNEE MILL
INDUSTRIAL

BLOCK 58
LOTS 2.01 & 9
BOROUGH OF SAYREVILLE
MIDDLESEX COUNTY
NEW JERSEY

Colliers Engineering & Design
101 Cranford Center Road,
Suite 3400
Haldon, NJ 07033
Phone: 732.983.1950
COLLIERS ENGINEERING & DESIGN, INC.
CORP. BUSINESS ADDRESS CONSULTING

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	6/12/2023	RM	DB
PROJECT NUMBER:	DRAWING NAME:		
10000657C	C-198E		

TREE PRESERVATION PLAN

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

STUDY BLOCK 1					
No.	Common Name	Botanical Name	Total Caliper Inches	Condition	Comments
1	Red Oak	Quercus Rubra	18	OK	Broken Branches, Co-Dominant Leader, Unbalanced Canopy.
2	Red Maple	Acer Rubrum	10	Poor	Vine Covered, Broken Branches.
3	Sweet Gum	Liquidambar styraciflua	10	Poor	Controlled Form, Co-Dominant Leader.
4	White Oak	Quercus Alba	5	Poor	Leaning, Contorted Form, Unbalanced Canopy.
5	Black Cherry	Prunus Serotina	11	Very Poor	Broken Leader, Contorted Form, Co-Dominant Leader.
6	Red Oak	Quercus Rubra	4	OK	Unbalanced Canopy, Contorted Form.
7	Red Oak	Quercus Rubra	10	OK	Co-Dominant Leader, Unbalanced Canopy, Contorted Form.
8	Red Maple	Acer Rubrum	10	OK	Controlled Form, Some Vines.
9	Black Gum	Nyssa Sylvatica	7	OK	Vine Covered, Broken Branches, Contorted Form.
10	Black Gum	Nyssa Sylvatica	4	Poor	Controlled Form, Vine Covered, Broken Branches.
11	Black Locust	Robinia Pseudacacia	7	Poor	Controlled Form, Broken Leader, Leaning.
12	Sweet Gum	Liquidambar styraciflua	6	Poor	Controlled Form, Unbalanced Canopy, Vine Covered.
13	Black Cherry	Prunus Serotina	12	Poor	Co-Dominant Leader, Broken Branches.
14	Sweet Gum	Liquidambar styraciflua	7	Poor	Vine Covered, Broken Branches, Unbalanced Canopy.
15	Sweet Gum	Liquidambar styraciflua	6	Poor	Unbalanced Canopy, Contorted Form.
16	Sweet Gum	Liquidambar styraciflua	12	OK	No Lower Branches, Unbalanced Canopy, Contorted Form.
17	Black Gum	Nyssa Sylvatica	7	Poor	Co-Dominant Leader, Contorted Form, Vine Covered.
18	Black Gum	Nyssa Sylvatica	16	OK	Co-Dominant Leader, Contorted Form, Unbalanced Canopy.
19	Sweet Gum	Liquidambar styraciflua	14	OK	Broken Branches, Co-Dominant Leader, Contorted Form.
20	Black Gum	Nyssa Sylvatica	5	Poor	Broken Leader, Co-Dominant Leader.
21	Black Gum	Nyssa Sylvatica	7	Poor	Controlled Form, Unbalanced Canopy.
22	Sweet Gum	Liquidambar styraciflua	4	Poor	Controlled Form, Vine Covered.
23	Sweet Gum	Liquidambar styraciflua	6	Poor	Vine Covered, Contorted Form.
24	Sweet Gum	Liquidambar styraciflua	6	Poor	Sparse Canopy, No Lower Branches, Contorted Form.
25	Black Cherry	Prunus Serotina	7	Poor	Controlled Form, Unbalanced Canopy, Vine Covered.
26	Black Cherry	Prunus Serotina	6	Poor	Leaning, Co-Dominant Leader, Broken Branches.
27	Sweet Gum	Liquidambar styraciflua	9	Poor	Vine Covered, Contorted Form, Broken Branches.
28	Black Locust	Robinia Pseudacacia	4	Very Poor	Leaning, Broken Branches.
29	Black Locust	Robinia Pseudacacia	7	Very Poor	Vine Covered, Leaning, Broken Branches.
30	Sweet Gum	Liquidambar styraciflua	13	OK	Broken Branches, No Lower Branches.
31	Black Cherry	Prunus Serotina	4	Very Poor	Broken Leader, Contorted Form, Broken Branches.
32	Sweet Gum	Liquidambar styraciflua	9	Poor	Vine Covered, No Lower Branches.
33	Black Locust	Robinia Pseudacacia	12	Poor	Vine Covered, Broken Branches, Contorted Form.
34	Red Maple	Acer Rubrum	22	OK	Co-Dominant Leader, Broken Branches.
35	Red Maple	Acer Rubrum	MI 6, 5	OK	Co-Dominant Leader, Contorted Form, Broken Branches.
36	Red Maple	Acer Rubrum	20	OK	Leaning, Co-Dominant Leader, Some Vines.
37	Red Maple	Acer Rubrum	7	OK	Controlled Form, Some Vines.
38	Sweet Gum	Liquidambar styraciflua	7	Poor	Vine Covered, Contorted Form, Unbalanced Canopy.
39	Black Cherry	Prunus Serotina	6	Poor	Co-Dominant Leader, Vine Covered, Broken Branches.
40	Black Cherry	Prunus Serotina	MI 7, 6	Poor	Co-Dominant Leader, Vine Covered, Broken Branches, Leaning, Contorted Form, Unbalanced Canopy.
41	Black Cherry	Prunus Serotina	4	Poor	Co-Dominant Leader, Unbalanced Canopy.
42	Red Maple	Acer Rubrum	7	Poor	Co-Dominant Leader, Contorted Form, Vine Covered.
43	Sweet Gum	Liquidambar styraciflua	MI 12, 12, 9	Poor	Vine Covered, Co-Dominant Leader, Broken Branches.
44	Black Gum	Nyssa Sylvatica	MI 12, 12, 9	OK	Controlled Form, Broken Branches, No Lower Branches.
45	Black Gum	Nyssa Sylvatica	16	OK	Co-Dominant Leader, Contorted Form.
46	Black Cherry	Prunus Serotina	6	Poor	Controlled Form, Sparse Canopy.
47	Red Maple	Acer Rubrum	11	OK	Co-Dominant Leader, Contorted Form.
48	Red Maple	Acer Rubrum	10	OK	Co-Dominant Leader, Contorted Form, Unbalanced Canopy.
49	Black Locust	Robinia Pseudacacia	10	Poor	Vine Covered, Leaning, Unbalanced Canopy.
50	Black Cherry	Prunus Serotina	5	Poor	Leaning, Contorted Form, Co-Dominant Leader.
51	Black Cherry	Prunus Serotina	9	Poor	Controlled Form, Broken Branches, Co-Dominant Leader.
52	Black Locust	Robinia Pseudacacia	8	Poor	Controlled Form, Broken Leader, Broken Branches.
53	Red Maple	Acer Rubrum	10	Poor	Leaning, Co-Dominant Leader, Contorted Form, Unbalanced Canopy.
54	Black Locust	Robinia Pseudacacia	8	Poor	Leaning, Contorted Form.

MI-Multi-Leader

STUDY BLOCK 2					
No.	Common Name	Botanical Name	Total Caliper Inches	Condition	Comments
1	White Oak	Quercus Alba	7	Poor	Broken Branches, Sparse Canopy, Unbalanced Canopy.
2	White Oak	Quercus Alba	6	Poor	Vine Covered, Unbalanced Canopy.
3	Red Maple	Acer Rubrum	MI 10, 8, 6	OK	Co-Dominant Leader, Broken Branches, No Lower Branches, Co-Dominant Leader.
4	White Oak	Quercus Alba	12	OK	Broken Branches, Co-Dominant Leader.
5	Pin Oak	Quercus Palastris	13	OK	Vine Covered.
6	White Oak	Quercus Alba	14	Poor	Broken Branches, Co-Dominant Leader, Unbalanced Canopy.
7	Pinch Pine	Pinus Rigida	14	Poor	No Lower Branches, Sparse Canopy.
8	Pin Oak	Quercus Palastris	11	Poor	Broken Branches, Dead Branches.
9	Pin Oak	Quercus Palastris	4	OK	Leaning, Unbalanced Canopy.
10	Black Gum	Nyssa Sylvatica	4	OK	Broken Branches, Dead Branches, Contorted Form.
11	Red Maple	Acer Rubrum	4	Poor	Controlled Form, Broken Branches, Unbalanced Canopy.
12	Black Gum	Nyssa Sylvatica	6	OK	Broken Branches.
13	Pin Oak	Quercus Palastris	10	Poor	Broken Branches, Vine Covered, Contorted Form.
14	Pin Oak	Quercus Palastris	20	Poor	Broken Branches, Dead Branches, Contorted Form.
15	Pin Oak	Quercus Palastris	7	Poor	Unbalanced Canopy, Broken Branches, Contorted Form.
16	White Oak	Quercus Alba	7	Poor	Controlled Form, Broken Branches, Co-Dominant Leader.
17	White Oak	Quercus Alba	8	Very Poor	Co-Dominant Leader, Broken Branches, Unbalanced Canopy.
18	Sweet Gum	Liquidambar styraciflua	9	Poor	No Lower Branches, Unbalanced Canopy.
19	Sweet Gum	Liquidambar styraciflua	4	OK	Leaning, Contorted Form.
20	White Oak	Quercus Alba	7	OK	Controlled Form, Unbalanced Canopy, No Lower Branches.
21	Pin Oak	Quercus Palastris	10	OK	Controlled Form, Unbalanced Canopy.
22	Black Gum	Nyssa Sylvatica	5	Poor	Leaning, Contorted Form, Unbalanced Canopy.
23	Black Gum	Nyssa Sylvatica	14	OK	No Lower Branches, Broken Branches.
24	Sweet Gum	Liquidambar styraciflua	7	OK	Broken Branches, Broken Branches.
25	Red Maple	Acer Rubrum	5	OK	Co-Dominant Leader, Unbalanced Canopy.
26	Scarlet Oak	Quercus Coccinea	7	OK	Broken Branches.
27	Scarlet Oak	Quercus Coccinea	10	OK	No Lower Branches, Broken Branches, Unbalanced Canopy.
28	Sweet Gum	Liquidambar styraciflua	7	OK	Leaning, Unbalanced Canopy.
29	Red Maple	Acer Rubrum	6	OK	Controlled Form, Unbalanced Canopy.
30	Red Maple	Acer Rubrum	5	Poor	Co-Dominant Leader, Unbalanced Canopy, Contorted Form.
31	Scarlet Oak	Quercus Coccinea	10	OK	Vine Covered, No Lower Branches.
32	Sweet Gum	Liquidambar styraciflua	5	Poor	Controlled Form, Unbalanced Canopy, Broken Branches.
33	Pin Oak	Quercus Palastris	7	Poor	Co-Dominant Leader, Leaning, Unbalanced Canopy.
34	White Oak	Quercus Alba	6	Poor	Co-Dominant Leader, Broken Branches.
35	White Oak	Quercus Alba	11	Poor	Broken Branches, Co-Dominant Leader, Unbalanced Canopy.
36	White Birch	Betula Papyrifera	5	Very Poor	Leaning, Broken Leader, Co-Dominant Leader.
37	Pin Oak	Quercus Palastris	5	Poor	Leaning, Contorted Form, Unbalanced Canopy.
38	Pin Oak	Quercus Palastris	6	Poor	Unbalanced Canopy.
39	Sweet Gum	Liquidambar styraciflua	7	Poor	No Lower Branches, Unbalanced Canopy, Sparse Canopy.
40	Red Maple	Acer Rubrum	6	OK	Co-Dominant Leader, Unbalanced Canopy.
41	Red Maple	Acer Rubrum	11	OK	Co-Dominant Leader, No Lower Branches, Unbalanced Canopy.
42	Red Maple	Acer Rubrum	10	OK	Co-Dominant Leader, Unbalanced Canopy.
43	Red Maple	Acer Rubrum	4	Poor	Leaning, Contorted Form, Unbalanced Canopy.
44	Scarlet Oak	Quercus Coccinea	13	Very Poor	Co-Dominant Leader, Broken Branches, Dead Branches.
45	Scarlet Oak	Quercus Coccinea	7	Poor	Leaning, Contorted Form, Unbalanced Canopy.
46	Red Maple	Acer Rubrum	8	Poor	Unbalanced Canopy, Co-Dominant Leader.
47	White Oak	Quercus Alba	4	Poor	Co-Dominant Leader, Contorted Form.
48	Black Gum	Nyssa Sylvatica	4	Poor	Controlled Form, No Lower Branches, Leaning.
49	White Oak	Quercus Alba	5	Poor	Controlled Form, Broken Branches.
50	Hickory	Carya	5	OK	Leaning, Unbalanced Canopy.
51	Pin Oak	Quercus Palastris	19	OK	Controlled Form, Broken Branches.
52	White Birch	Betula Papyrifera	4	Poor	Leaning, Broken Branches, Contorted Form.
53	Black Gum	Nyssa Sylvatica	4	Poor	Leaning, Contorted Form, Sparse Canopy.
54	Sweet Gum	Liquidambar styraciflua	4	Poor	Controlled Form, No Lower Branches, Unbalanced Canopy.
55	White Oak	Quercus Alba	5	Poor	Unbalanced Canopy, Co-Dominant Leader, Contorted Form.
56	White Oak	Quercus Alba	11	OK	No Lower Branches, Unbalanced Canopy.
57	White Oak	Quercus Alba	MI 9, 9	OK	No Lower Branches, Unbalanced Canopy, Sparse Canopy.
58	White Oak	Quercus Alba	10	Poor	Leaning, Contorted Form, Unbalanced Canopy.

MI-Multi-Leader

STUDY BLOCK 3					
No.	Common Name	Botanical Name	Total Caliper Inches	Condition	Comments
1	Red Maple	Acer Rubrum	7	OK	No Lower Branches, Co-Dominant Leader, Unbalanced Canopy.
2	Red Maple	Acer Rubrum	10	OK	No Lower Branches, Sparse Canopy, Unbalanced Canopy.
3	Red Maple	Acer Rubrum	10	OK	Co-Dominant Leader, No Lower Branches.
4	Red Maple	Acer Rubrum	8	OK	No Lower Branches, Co-Dominant Leader, Unbalanced Canopy.
5	Red Maple	Acer Rubrum	10	Poor	Controlled Form, Broken Leader, Unbalanced Canopy.
6	Red Maple	Acer Rubrum	8	Poor	Controlled Form, Broken Leader, Unbalanced Canopy.
7	Black Gum	Nyssa Sylvatica	6	Poor	Controlled Form, Unbalanced Canopy.
8	Sweet Gum	Liquidambar styraciflua	12	OK	No Lower Branches, Contorted Form, Sparse Canopy.
9	Sweet Gum	Liquidambar styraciflua	9	Poor	No Lower Branches, Co-Dominant Leader, Sparse Canopy.
10	Sweet Gum	Liquidambar styraciflua	11	OK	No Lower Branches, Co-Dominant Leader, Sparse Canopy.
11	Sweet Gum	Liquidambar styraciflua	MI 20, 20, 15	OK	Leaning, Unbalanced Canopy, Contorted Form.
12	Sweet Gum	Liquidambar styraciflua	MI 21, 11	OK	No Lower Branches, Leaning, Unbalanced Canopy.
13	Black Gum	Nyssa Sylvatica	10	Poor	Leaning, Contorted Form, Unbalanced Canopy.
14	Black Gum	Nyssa Sylvatica	9	Poor	Open Wounds, Contorted Form, Co-Dominant Leader.
15	White Oak	Quercus Alba	10	Poor	Co-Dominant Leader, Broken Branches, Unbalanced Canopy.
16	Scarlet Oak	Quercus Coccinea	8	Poor	Broken Branches, No Lower Branches, Contorted Form.
17	Scarlet Oak	Quercus Coccinea	10	Poor	Leaning, Unbalanced Canopy, Sucker Growth.
18	Red Maple	Acer Rubrum	8	Poor	Controlled Form, Co-Dominant Leader, Unbalanced Canopy.
19	Red Maple	Acer Rubrum	7	Poor	Unbalanced Canopy, Broken Leader, Contorted Form.
20	Red Maple	Acer Rubrum	10	Poor	No Lower Branches, Co-Dominant Leader, Sparse Canopy.
21	Red Maple	Acer Rubrum	5	Poor	Co-Dominant Leader, Unbalanced Canopy.
22	Red Maple	Acer Rubrum	6	Poor	Controlled Form, Co-Dominant Leader, Sparse Canopy.
23	Red Maple	Acer Rubrum	5	Poor	Sucker Growth, Sparse Canopy, Unbalanced Canopy.
24	Red Maple	Acer Rubrum	5	Poor	Controlled Form, Leaning, No Lower Branches.
25	Red Maple	Acer Rubrum	4	Poor	Sucker Growth, Sparse Canopy, No Lower Branches.
26	Red Maple	Acer Rubrum	MI 5, 7	OK	Leaning, Contorted Form, Unbalanced Canopy.
27	Red Oak	Quercus Alba	15	OK	No Lower Branches, Co-Dominant Leader, Broken Branches.
28	White Oak	Quercus Alba	MI 6, 8	Poor	Unbalanced Canopy, Sucker Growth.
29	Red Oak	Quercus Alba	13	Poor	No Lower Branches, Sparse Canopy, Unbalanced Canopy.
30	Pinch Pine	Pinus Rigida	16	Poor	No Lower Branches, Sparse Canopy, Broken Branches.
31	Scarlet Oak	Quercus Coccinea	12	OK	Broken Branches, Unbalanced Canopy, No Lower Branches.
32	Black Gum	Nyssa Sylvatica	MI 20, 20	OK	Leaning, Unbalanced Canopy, Broken Branches.
33	Black Gum	Nyssa Sylvatica	MI 10, 12	OK	Controlled Form, Unbalanced Canopy.
34	Sweet Gum	Liquidambar styraciflua	10	OK	No Lower Branches, Contorted Form, Unbalanced Canopy.
35	White Oak	Quercus Alba	4	OK	Leaning, Unbalanced Canopy.
36	Sweet Gum	Liquidambar styraciflua	13	Poor	Broken Branches, Unbalanced Canopy, No Lower Branches.
37	Sweet Gum	Liquidambar styraciflua	12	OK	No Lower Branches, Contorted Form, Unbalanced Canopy.
38	Sweet Gum	Liquidambar styraciflua	12	OK	Controlled Form, No Lower Branches, Unbalanced Canopy.
39	Sweet Gum	Liquidambar styraciflua	8	Poor	Open Wounds, Contorted Form.
40	Sweet Gum	Liquidambar styraciflua	MI 8, 7	OK	Leaning, Contorted Form, Broken Branches, Unbalanced Canopy.
41	Sweet Gum	Liquidambar styraciflua	5	Poor	Controlled Form.
42	Sweet Gum	Liquidambar styraciflua	5	Poor	Unbalanced Canopy.
43	Sweet Gum	Liquidambar styraciflua	6	Poor	Controlled Form, Co-Dominant Leader.
44	Sweet Gum	Liquidambar styraciflua	5	OK	Co-Dominant Leader, Contorted Form, Sucker Growth.
45	Red Maple	Acer Rubrum	12	Poor	Sucker Growth, Open Wounds, Unbalanced Canopy.
46	Red Maple	Acer Rubrum	9	OK	Sucker Growth, Contorted Form, Unbalanced Canopy.
47	Red Maple	Acer Rubrum	5	Poor	Controlled Form, Open Wounds.
48	Red Maple	Acer Rubrum	15	Poor	Co-Dominant Leader, Dominant Leader.
49	Red Maple	Acer Rubrum	5	Poor	Leaning, Sparse Canopy.
50	Black Gum	Nyssa Sylvatica	6	OK	Co-Dominant Leader, Contorted Form.
51	Sweet Gum	Liquidambar styraciflua	20	OK	Co-Dominant Leader, Contorted Form, No Lower Branches.
52	Red Maple	Acer Rubrum	16	Poor	Open Wounds, Co-Dominant Leader, Contorted Form.
53	Black Gum	Nyssa Sylvatica	5	Poor	Controlled Form, Co-Dominant Leader, Sparse Canopy.
54	Black Gum	Nyssa Sylvatica	9	Poor	Co-Dominant Leader, Contorted Form, Sparse Canopy.
55	Black Gum	Nyssa Sylvatica	10	OK	No Lower Branches, Co-Dominant Leader.
56	Black Gum	Nyssa Sylvatica	7	Poor	Controlled Form, No Lower Branches, Co-Dominant Leader.
57	Black Gum	Nyssa Sylvatica	MI 10, 8, 8, 5	Poor	Controlled Form, Co-Dominant Leader, Open Wounds.
58	Black Gum	Nyssa Sylvatica	5	Poor	Controlled Form, Unbalanced Canopy.
59	Black Gum	Nyssa Sylvatica	11	Poor	Open Wounds, Sucker Growth, No Lower Branches.
60	Black Gum	Nyssa Sylvatica	9	Very Poor	Open Wounds, Contorted Form.
61	White Oak	Quercus Alba	5	Poor	Controlled Form, Sparse Canopy.
62	White Oak	Quercus Alba	6	Poor	No Lower Branches, Sparse Canopy.
63	Red Maple	Acer Rubrum	11	OK	No Lower Branches, Dead Branches.
64	Red Maple	Acer Rubrum	11	OK	No Lower Branches, Co-Dominant Leader, Unbalanced Canopy.
65	Red Maple	Acer Rubrum	6	Poor	Dead Branches, Sucker Growth.
66	Black Gum	Nyssa Sylvatica	8	OK	Co-Dominant Leader, Unbalanced Canopy, Sucker Growth.
67	Black Gum	Nyssa Sylvatica	9	OK	Co-Dominant Leader, Unbalanced Canopy, Sucker Growth.
68	Black Gum	Nyssa Sylvatica	5	Poor	Sucker Growth, Sparse Canopy.

STUDY BLOCK 3 (CONT.)					
No.	Common Name	Botanical Name	Total Caliper Inches	Condition	Comments
69	Black Gum	Nyssa Sylvatica	10	OK	Co-Dominant Leader, Unbalanced Canopy, No Lower Branches.
70	Black Gum	Nyssa Sylvatica	7	OK	Controlled Form, Sparse Canopy.
71	Red Maple	Acer Rubrum	7	Poor	Dead Branches, No Lower Branches, Co-Dominant Leader.
72	Red Maple	Acer Rubrum	15	OK	Co-Dominant Leader, No Lower Branches.
73	Black Gum	Nyssa Sylvatica	13	Poor	Co-Dominant Leader, No Lower Branches.
74	Black Gum	Nyssa Sylvatica	11	Poor	Controlled Form, Co-Dominant Leader, Unbalanced Canopy.
75	Red Maple	Acer Rubrum	10	Poor	No Lower Branches, Unbalanced Canopy.
76	Red Maple	Acer Rubrum	11	Poor	Co-Dominant Leader, No Lower Branches.
77	Red Maple	Acer Rubrum	MI 8, 8	OK	Controlled Form, Broken Leader.
78	White Oak	Quercus Alba	5	OK	Unbalanced Canopy, Vine Covered.

MI-Multi-Leader

TREE REPLACEMENT CALCULATIONS

Study Block Size = 100' x 100' = 10,000 SF

EXISTING WOODLAND AREA = 13.80 AC

PROPOSED WOODLAND REMOVAL = 6.96 AC

PERCENTAGE OF WOODLAND REMOVAL = 50%

TREES BETWEEN FOUR (4") AND SIXTEEN (16") INCHES DIAMETER AT BREAST HEIGHT (DBH)

STUDY BLOCK 1 = 47 TREES = 205 TREES PER ACRE
 STUDY BLOCK 2 = 54 TREES = 235 TREES PER ACRE
 STUDY BLOCK 3 = 69 TREES = 301 TREES PER ACRE
 AVERAGE TREES PER ACRE = 247 4"-16" DBH TREES PER ACRE

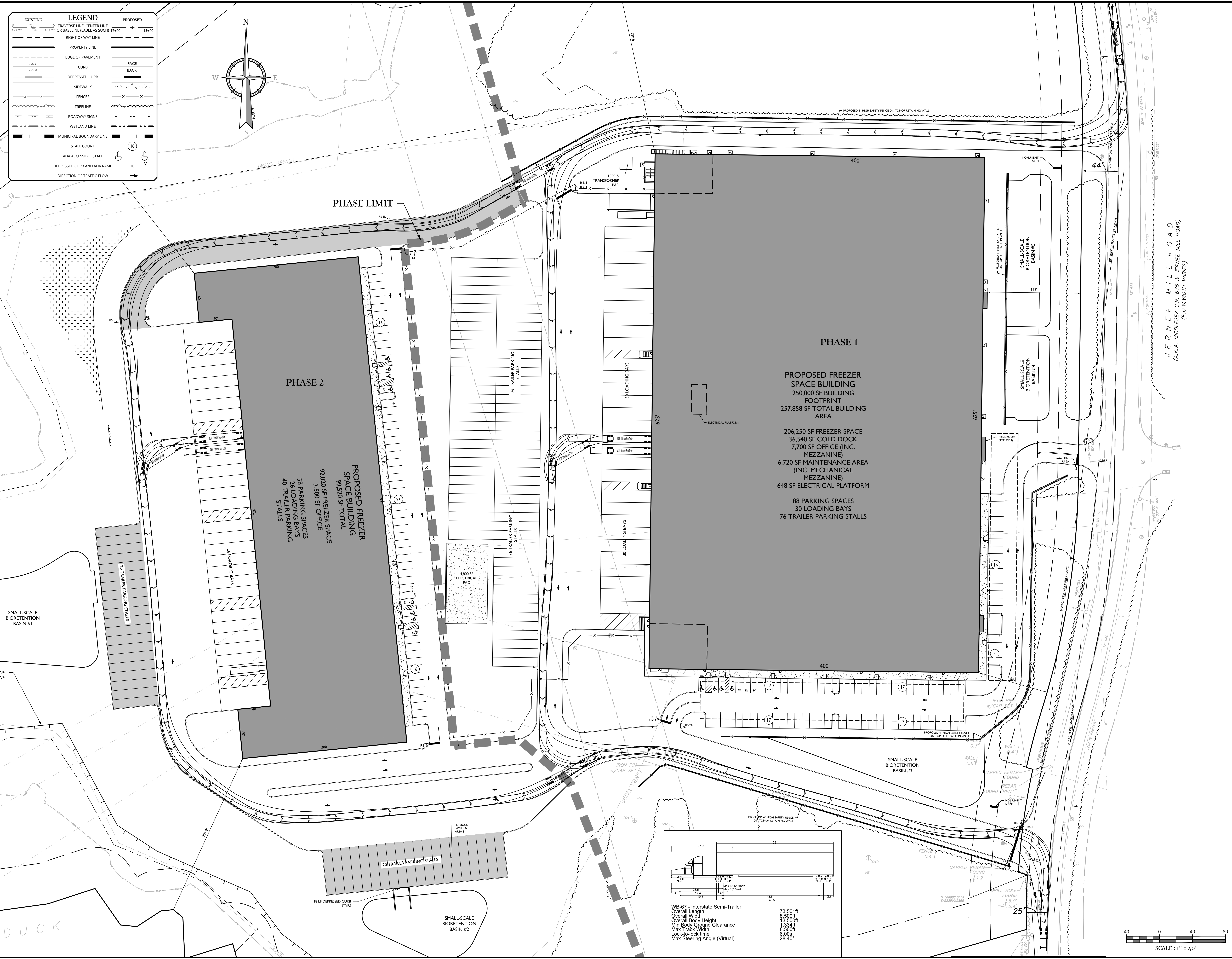
PERCENTAGE OF TREES TO BE REPLACED PER ORDINANCE SECTION 30-7 = 40%

TREE REMOVAL = 247 TREES PER ACRES * 6.96 ACRES REMOVED = 1,719 TREES REMOVED

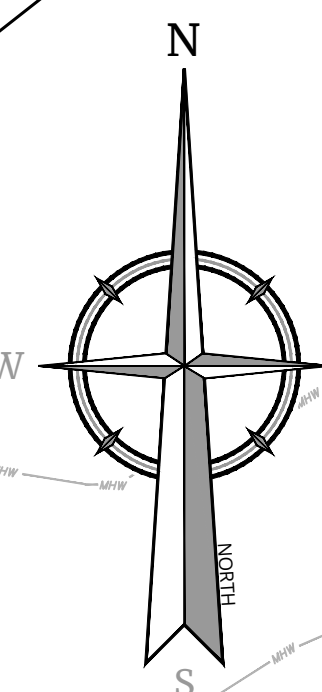
TREE REPLACEMENT = 1,719 TREES REMOVED * 40% = 688 REPLACEMENT TREES

TREES OF SIXTEEN (16") INCHES OR GREATER DIAMETER AT BREAST HEIGHT (DBH)

	LESS THAN 18"	LESS THAN 21"	LESS THAN 24"	LESS THAN 27"	LESS THAN 30"	LESS THAN 33"	LESS THAN 36"	LESS THAN 39"	LESS THAN 41"	41" AND GREATER
STUDY BLOCK 1	2	2	1	0						



EXISTING	LEGEND	PROPOSED
12+00	TRVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	12+00
12+00	RIGHT OF WAY LINE	12+00
---	PROPERTY LINE	---
---	EDGE OF PAVEMENT	---
---	FACE CURB	---
---	DEPRESSED CURB	---
---	SIDEWALK	---
---	FENCES	---
---	TREELINE	---
---	ROADWAY SIGNS	---
---	WETLAND LINE	---
---	MUNICIPAL BOUNDARY LINE	---
---	STALL COUNT	---
---	ADA ACCESSIBLE STALL	---
---	DEPRESSED CURB AND ADA RAMP	---
---	DIRECTION OF TRAFFIC FLOW	---



PHASE 1

PROPOSED FREEZER SPACE BUILDING
 250,000 SF BUILDING FOOTPRINT
 257,858 SF TOTAL BUILDING AREA

206,250 SF FREEZER SPACE
 36,540 SF COLD DOCK
 7,700 SF OFFICE (INC. MEZZANINE)
 6,720 SF MAINTENANCE AREA (INC. MECHANICAL MEZZANINE)
 648 SF ELECTRICAL PLATFORM

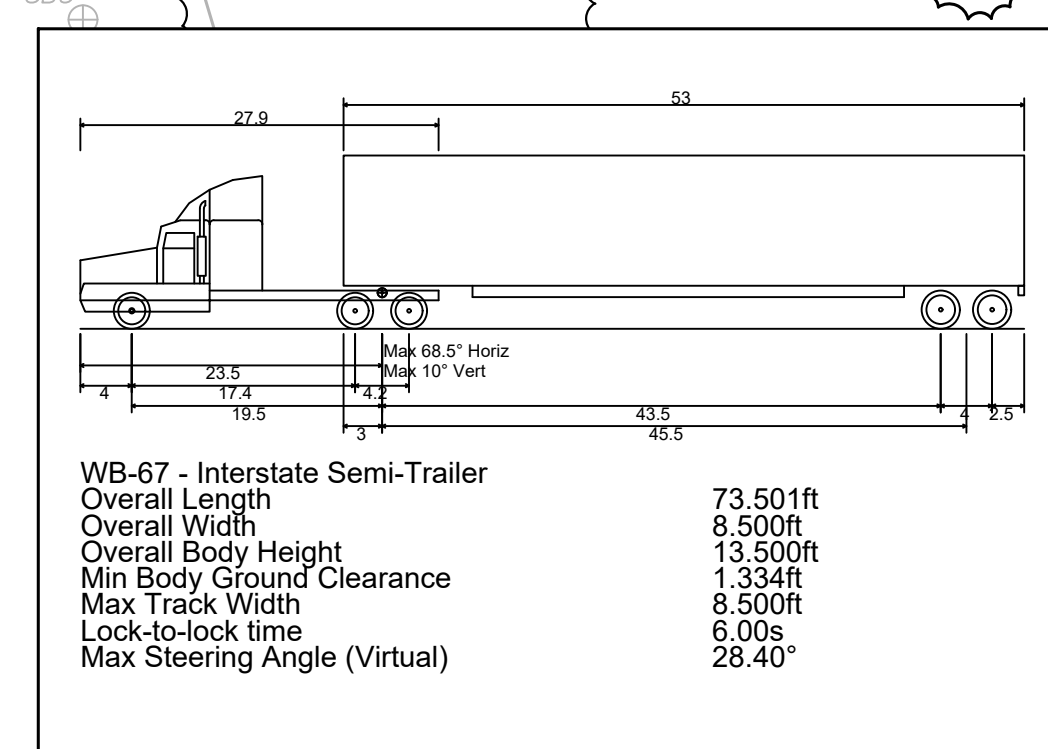
88 PARKING SPACES
 30 LOADING BAYS
 76 TRAILER PARKING STALLS

PHASE 2

PROPOSED FREEZER SPACE BUILDING
 99,520 SF TOTAL

92,000 SF FREEZER SPACE
 7,500 SF OFFICE

58 PARKING SPACES
 26 LOADING BAYS
 40 TRAILER PARKING STALLS



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REV	DATE	DRAWN BY	DESCRIPTION
1	02/20/23	RM	PROPOSED PRELIMINARY
2	04/20/24	TL	REVISION FOR CLIENT ARCHITECT
3	02/20/24	RM	REVISION FOR BIDDING CONTRACTORS REVIEW

Michael Stickle
 NEW JERSEY LICENSED PROFESSIONAL ENGINEER
 LICENSE NUMBER: GE57838
 COLLIER ENGINEERING & DESIGN, INC.
 N.J. C.O.A. #: 2462798690

PRELIMINARY AND FINAL MAJOR SITE PLAN FOR JERNEE MILL INDUSTRIAL

BLOCK 58 LOTS 2.01 & 9
 BOROUGH OF SAYREVILLE
 MIDDLESEX COUNTY
 NEW JERSEY

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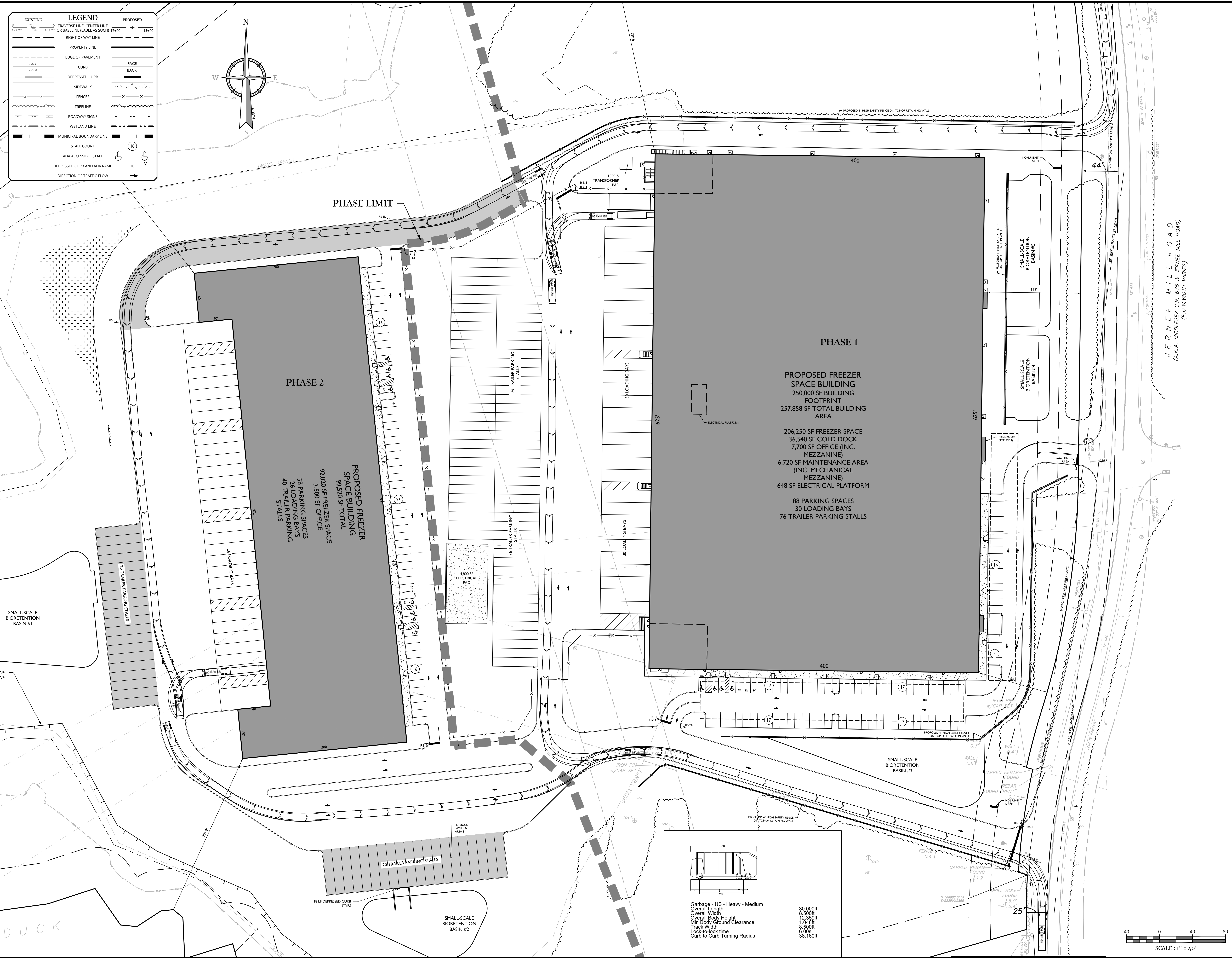
HOLMDEL (Headquarters)
 101 Crawford Corner Road,
 Suite 3400
 Holmdel, NJ 07733
 Phone: 732.983.1950

SCALE: AS SHOWN DATE: 6/12/2023 DRAWN BY: RM CHECKED BY: DB
 PROJECT NUMBER: 10000657C DRAWING NAME: C-OVAL-LAYT

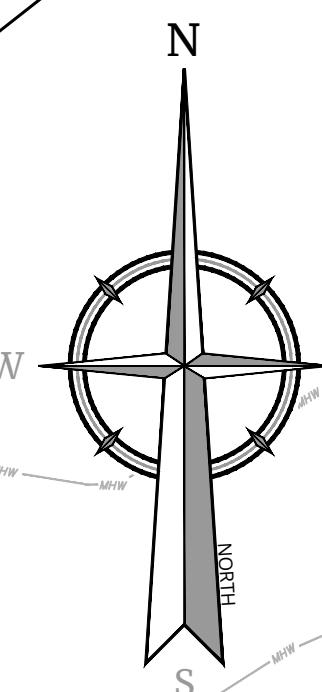
SHEET TITLE: TRUCK CIRCULATION PLAN

SHEET NUMBER: 35 of 37

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



EXISTING	LEGEND	PROPOSED
12+00	TRVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	13+00
---	RIGHT OF WAY LINE	---
---	PROPERTY LINE	---
---	EDGE OF PAVEMENT	---
---	FACE CURB	---
---	DEPRESSED CURB	---
---	SIDEWALK	---
---	FENCES	---
---	TREELINE	---
---	ROADWAY SIGNS	---
---	WETLAND LINE	---
---	MUNICIPAL BOUNDARY LINE	---
---	STALL COUNT	---
---	ADA ACCESSIBLE STALL	---
---	DEPRESSED CURB AND ADA RAMP	---
---	DIRECTION OF TRAFFIC FLOW	---



PHASE LIMIT

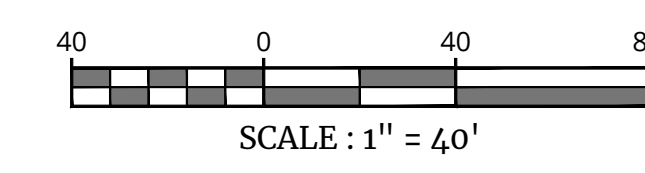
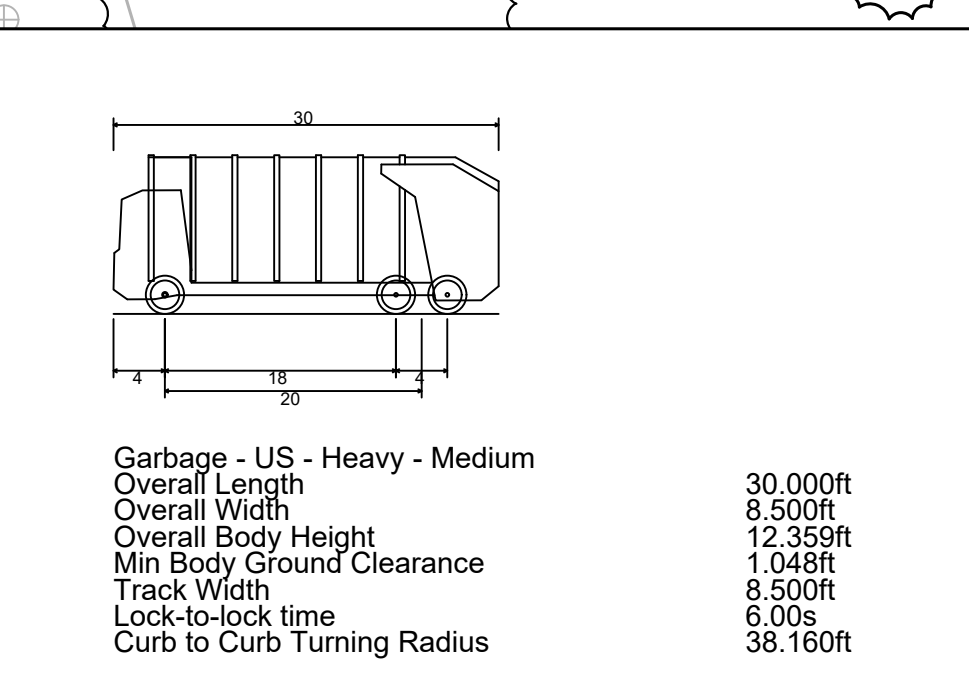
PHASE 2

PROPOSED FREEZER SPACE BUILDING
 92,000 SF FREEZER SPACE
 99,520 SF TOTAL
 58 PARKING SPACES
 26 LOADING BAYS
 40 TRAILER PARKING STALLS
 7,500 SF OFFICE

PHASE 1

PROPOSED FREEZER SPACE BUILDING
 250,000 SF BUILDING FOOTPRINT
 257,858 SF TOTAL BUILDING AREA
 206,250 SF FREEZER SPACE
 36,540 SF COLD DOCK
 7,700 SF OFFICE (INC. MEZZANINE)
 6,720 SF MAINTENANCE AREA (INC. MECHANICAL MEZZANINE)
 648 SF ELECTRICAL PLATFORM
 88 PARKING SPACES
 30 LOADING BAYS
 76 TRAILER PARKING STALLS

JERNEE MILL ROAD
 (A.K.A. MIDDLESEX C.R. 675 & JERNEE MILL ROAD)
 (R.O.W. WIDTH VARIES)



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REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
1	8/20/23	ISSUED FOR PERMITS	RM		
2	8/20/23	ISSUED FOR PERMITS	RM		
3	8/20/23	ISSUED FOR PERMITS	RM		

Michael Stickle
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PRELIMINARY AND FINAL MAJOR SITE PLAN FOR JERNEE MILL INDUSTRIAL

BLOCK 58 LOTS 2.01 & 9
 BOROUGH OF SAYREVILLE
 MIDDLESEX COUNTY
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SCALE	DATE	DRAWN BY	CHECKED BY
AS SHOWN	6/12/2023	RM	DB

PROJECT NUMBER: 10000657C
 DRAWING NAME: C-OVAL-LAYT

SHEET TITLE: REFUSE VEHICLE CIRCULATION PLAN

SHEET NUMBER: 36 of 37

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

