

GENERAL NOTES

- EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- EXISTING SITE INFORMATION / TOPOGRAPHIC SURVEY WAS PREPARED BY WSP USA, INC., DATED MARCH 29, 2019 AND REVISED ON JULY 25, 2019. CEC IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN
- WETLAND FLAGS WF-A1 THROUGH WF-A6 DELINEATED BY LUCAS ENVIRONMENTAL, LLC IN JULY, 2019.
- THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES (INCLUDING THOSE LABELED PER RECORD DATA) PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
- THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
- ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
- CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL, PRACTICES REQUIRED BY THE TOWN OF AVON, NORFOLK COUNTY AND THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE THE STATE OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION SECTION 751.
- ITEM NUMBERS REFER TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 1988 ENGLISH STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGE AND SUBSEQUENT SUPPLEMENTAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE TOWN OF AVON AND NORFOLK COUNTY. WHEN IN CONFLICT, THE NORFOLK COUNTY REQUIREMENTS SHALL PREVAIL.
- ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
- THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
- BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.
- ADJUST/RECONSTRUCT ALL EXISTING CASTINGS, CLEANOUTS, ETC. WITHIN PROJECT AREA TO GRADE AS REQUIRED.

DEMOLITION NOTES

- ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO THE APPROPRIATE UTILITY COMPANY STANDARDS AND AT THE CONTRACTOR'S EXPENSE.
- ALL UTILITY DISCONNECTION, REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY / AGENCY.
- THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR OBTAINS PRIOR WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- EROSION & SEDIMENT CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE PROPERLY INSTALLED AND FUNCTION PROPERLY PRIOR TO INITIALIZATION OF DEMOLITION ACTIVITIES.
- ASBESTOS OR HAZARDOUS MATERIALS ARE NOT EXPECTED/ANTICIPATED IF FOUND ON SITE. SUCH MATERIALS SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL AND OSHA REGULATIONS DURING ALL DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND FEATURES TO REMAIN. ANY ITEMS TO REMAIN THAT HAVE BEEN DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC.. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- ALL UTILITY AND STRUCTURE REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED AND PROPERLY DOCUMENTED BY A CERTIFIED PROFESSIONAL, WHEN APPLICABLE, WITH THE APPROPRIATE UTILITY COMPANY, MUNICIPALITY AND/OR AGENCY. DEMOLITION OF REGULATED ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO WELLS, ASBESTOS, UNDER GROUND STORAGE TANKS, SEPTIC TANKS AND ELECTRIC TRANSFORMERS. DEMOLITION CONTRACTOR SHALL REFER TO ANY ENVIRONMENTAL STUDIES FOR DEMOLITION RECOMMENDATIONS AND GUIDANCE. AVAILABLE ENVIRONMENTAL STUDIES MAY INCLUDE, BUT ARE NOT LIMITED TO PHASE I ESA, PHASE II, WETLAND AND STREAM DELINEATION AND ASBESTOS SURVEY. ALL APPLICABLE ENVIRONMENTAL STUDIES SHALL BE MADE AVAILABLE UPON REQUEST.
- ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC., WITHIN THE AREA TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE IF THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC., ARE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF THE REPORT OF GEOTECHNICAL INVESTIGATION. BASE COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE AREAS TO RECEIVE LANDSCAPING.
- THE CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION ACTIVITIES.

LAYOUT NOTES

- THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
- PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING IRRIGATION SLEEVING, PRIOR TO INSTALLATION OF PAVED SURFACES.
- ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN, WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
- COORDINATES ARE FOR BUILDING COLUMNS, EXTERIOR BUILDING WALL, CENTER OF DRIVEWAYS, CENTER OF SANITARY SEWER MANHOLES, AND CENTER OF STRUCTURE PLACED SIX INCHES INSIDE FACE OF CURB FOR DRAIN INLETS, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT / RECORD DRAWINGS ON-SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
- REFER TO THE ARCHITECTURAL, PLUMBING & ELECTRICAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS AND PRECISE BUILDING DIMENSIONS.
- THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH THE TOWN OF AVON. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO, INCREASED IMPERVIOUS PAVEMENT, ADDITION / DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.

STORM DRAINAGE NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
- ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, CONTRACTOR IS TO COORDINATE WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
- ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER.
- THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTION ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.

UTILITY NOTES

- THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN HEREON IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- SANITARY SEWER SHALL BE LOCATED 18" BELOW WATERMAIN AT ALL CROSSINGS. WATERMAIN SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER OR STORM SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERMAIN PIPE. ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO PAVEMENT CONSTRUCTION.
- ALL TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
- ADJUST ALL EXISTING UTILITY SURFACE FEATURES INCLUDING BUT NOT LIMITED TO CASTINGS, VALVE BOXES, PEDESTALS, CLEANOUTS, ETC. TO MATCH PROPOSED FINISHED GRADES, UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ALL IMPROVEMENTS. INCLUDE AT LEAST TWO DIMENSIONS TO EACH VALVE AND MANHOLE FROM KNOWN SITE FEATURES. DRAWINGS SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES ENCOUNTERED.
- MECHANICAL/ELECTRICAL CONTRACTORS SHALL BRING ALL UTILITIES 5' OUTSIDE BUILDING WALL COORDINATE WITH OWNER.

REVISION RECORD

DESCRIPTION

DATE

NO.

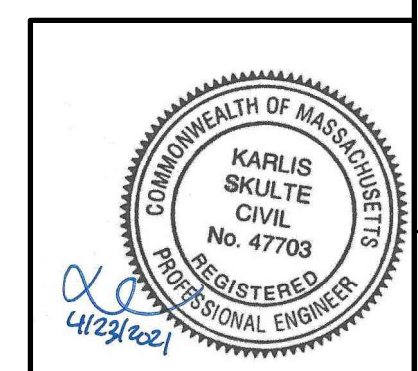


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 www.cecinc.com

**WASTE MANAGEMENT OF MA. INC.
 SITE REDEVELOPMENT
 20 LEDIN AVENUE
 AVON, MASSACHUSETTS**

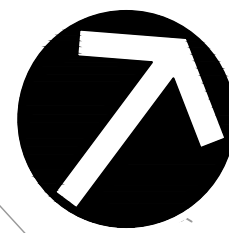
GENERAL NOTES

DATE: APRIL 23, 2021 | DRAWN BY: EMM
 DWG SCALE: AS SHOWN | CHECKED BY: KPS
 PROJECT NO: 311-999
 APPROVED BY: KPS



DRAWING NO.: **C001**
 SHEET 2 OF 9

P:\170-000\171-3991-2400\DWG\101-1-2400\DWG\101-1-2400-001-Proposed Expansion-20 Ledin Avenue Permittng Set\171.399-0171-2000-001-Proposed Expansion-20 Ledin Avenue.dwg(2021/04/23/2021 11:39 AM) - EP: 4/23/2021 11:39 AM



B6-1-18
N/F
41 LEDIN AVENUE, LLC.
BOOK 14738
PAGE 531
PLAN 388 OF 1972

B6-1-19
N/F
JACOBS RALPH S.
BOOK 5753
PAGE 336
PLAN 495 OF 1975

B6-1-20
N/F
M&R REALTY TRUST
BOOK 19237
PAGE 436
PLAN 395 OF 2003
PLAN 300 OF 1993

GENERAL NOTES

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- WETLAND FLAGS WF-A1 THROUGH WF-A6 DELINEATED BY LUCAS ENVIRONMENTAL, LLC IN JULY 2019.
- TEST PIT LOCATIONS ARE APPROXIMATE AND WERE PROVIDED TO CEC BY WASTE MANAGEMENT IN A MEMORANDUM BY FUSS & O'NEILL TITLED "TEST PITS AND INFILTRATION TESTING," DATED AUGUST 17, 2016.
- EXISTING SEPTIC SYSTEM AND TEST PIT INFORMATION WAS OBTAINED FROM DRAWING TITLED "AS-BUILT SEPTIC SYSTEM," BY BSC GROUP, DATED JULY 3, 2003.
- PERMISSION SHALL BE OBTAINED FROM ADJACENT PROPERTY OWNERS PRIOR TO PERFORMING ANY WORK ON ADJACENT PROPERTIES.

SITE DEVELOPMENT ZONING DATA

ADDRESS: 20 LEDIN AVENUE
PARCEL ID: B6-1-16
TOTAL AREA OF PARCEL: ±99,910 S.F. (2.3 AC)
ZONING DISTRICT: INDUSTRIAL / WATER SUPPLY PROTECTION OVERLAY
NUMBER OF BUILDINGS: 1 1

	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA:	40,000 S.F.	±99,910 S.F. (2.3 AC)	±99,910 S.F. (2.3 AC)
MINIMUM LOT FRONTAGE:	200 FT.	±236 FT.	±236 FT.
SETBACKS:			
FRONT BUILDING SETBACK ¹ :	40 FT.	±39.4 FT.	±39.4 FT.
SIDE BUILDING SETBACK:	25 FT.	±25.3 FT.	±25.3 FT.
REAR BUILDING SETBACK:	40 FT.	±186 FT.	±102 FT.
MAXIMUM BUILDING HEIGHT:	40 FT.	±22 FT.	38.7 FT.
MAXIMUM % OF LOT COVERAGE BY STRUCTURE:	60%	±25%	±42%
	(59,067 S.F.)	(±25,276 S.F.)	(±42,421 S.F.)
PARKING ² :			
	71	49	29
INDUSTRIAL/ MANUFACTURING:	(1 / 600 S.F.) X (42,421 S.F.)	49	29
	6	49	29
	(0.75/EMPLOYEE) X (4 EMPLOYEES X 2 SHIFTS)		

NOTES

- FINDING REQUESTED BY BOARD OF APPEALS FOR EXISTING FRONT YARD SETBACK NONCONFORMITY. 1 SPACE PER 600 S.F. OF GROSS FLOOR AREA OR 0.75 PER EACH EMPLOYEE OF THE COMBINED EMPLOYMENT OF THE 2 LARGEST SUCCESSIVE SHIFTS, WHICHEVER IS LARGER.
- VARIANCE REQUESTED FOR OFF-STREET PARKING REQUIREMENTS.

LEGEND

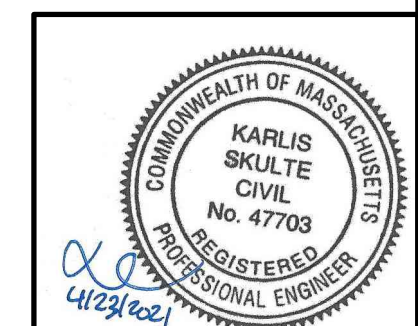
- PROPERTY BOUNDARY
- 100— PROPOSED MAJOR CONTOUR
- 101— PROPOSED MINOR CONTOUR
- 240.50 PROPOSED GRADE
- REQUIRED SETBACK LINE
- PROPOSED BUILDING
- PROPOSED OVERHEAD DOOR
- PROPOSED BUILDING ENTRANCE
- PROPOSED LOADING DOCK
- PROPOSED DRAINAGE SWALE
- ST — PROPOSED STORMWATER PIPE
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- CB CATCH BASIN
- DCB DOUBLE CATCH BASIN
- WQU WATER QUALITY UNIT
- OCS OUTLET CONTROL STRUCTURE
- EXISTING BUILDING
- EXISTING TREE
- EXISTING ENTRANCE
- EXISTING TRANSFORMER
- EXISTING UTILITY POLE

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WASTE MANAGEMENT OF MA, INC.
SITE REDEVELOPMENT
20 LEDIN AVENUE
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SITE LAYOUT

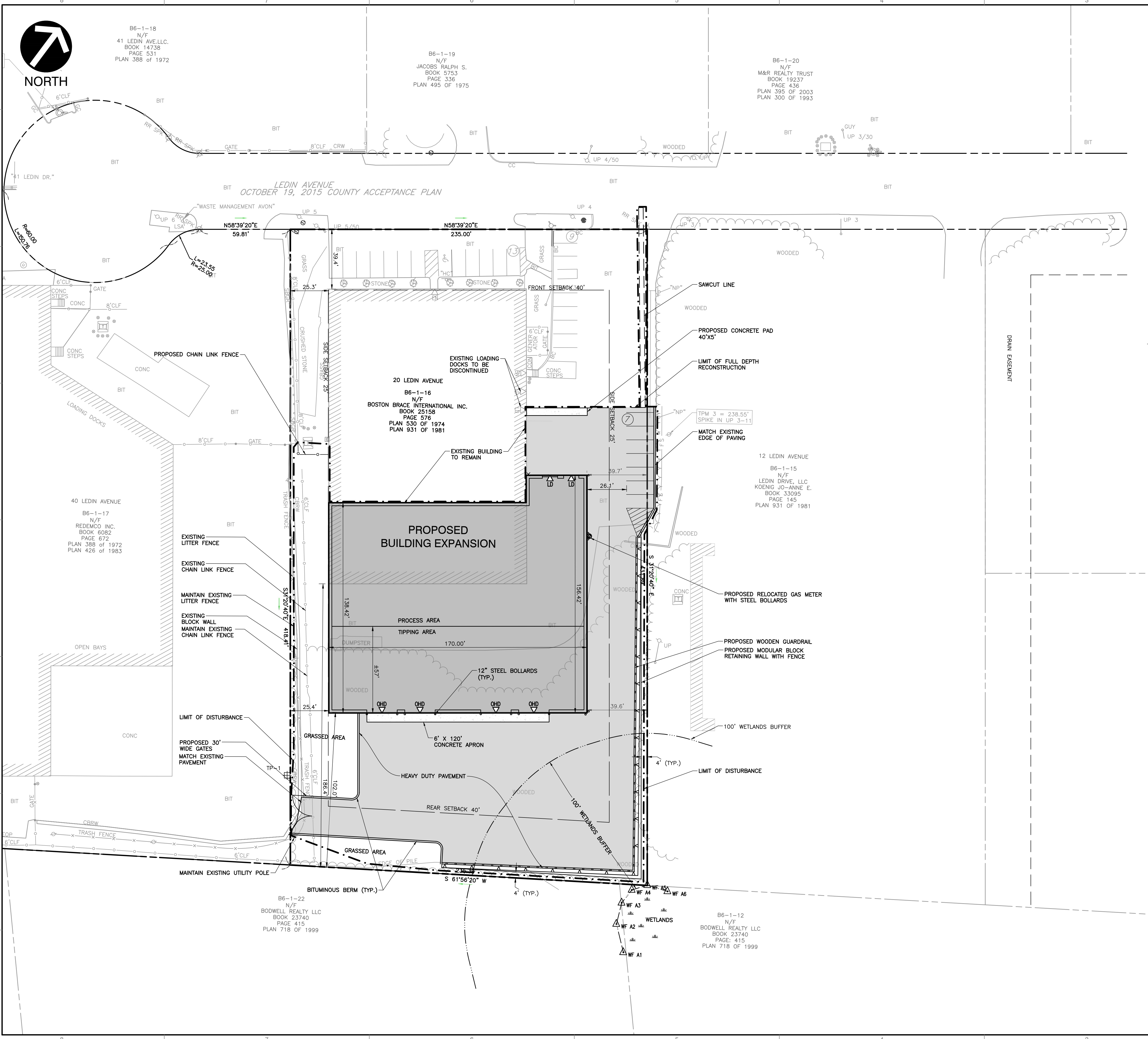
DATE: APRIL 25, 2021
DRAWN BY: EMM/KPS
DWG SCALE: 1"=30'
PROJECT NO: 311-399
APPROVED BY: KPS



SCALE IN FEET
0 30 60

DRAWING NO: **C200**
SHEET 4 OF 9

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B6-1-22
N/F
BODWELL REALTY LLC
BOOK 23740
PAGE 415
PLAN 718 OF 1999

B6-1-12
N/F
BODWELL REALTY LLC
BOOK 23740
PAGE 415
PLAN 718 OF 1999

12 LEDIN AVENUE
B6-1-15
N/F
LEDIN DRIVE, LLC
KOENIG JO-ANNE E.
BOOK 33095
PAGE 145
PLAN 931 OF 1981

20 LEDIN AVENUE
B6-1-16
N/F
BOSTON BRACE INTERNATIONAL INC.
BOOK 25158
PAGE 576
PLAN 530 OF 1974
PLAN 931 OF 1981

40 LEDIN AVENUE
B6-1-17
N/F
REDEMCO INC.
BOOK 6082
PAGE 672
PLAN 388 OF 1972
PLAN 426 OF 1983



B6-1-18
N/F
41 LEDIN AVE. LLC.
BOOK 14738
PAGE 531
PLAN 388 OF 1972

B6-1-19
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JACOBS RALPH S.
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PAGE 336
PLAN 495 OF 1975

B6-1-20
N/F
M&R REALTY TRUST
BOOK 19237
PAGE 436
PLAN 395 OF 2003
PLAN 300 OF 1993

CB
RIM=25.83
INV(A)=214.4
INV(B)=222.6
INV(C)=222.6
INV(D)=222.6

CB
RIM=225.42
INV(A)=222.7
12" RCP

CB
RIM=225.39
INV(A)=222.7
12" RCP

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LEGEND

- PROPERTY BOUNDARY
- 100 — PROPOSED MAJOR CONTOUR
- 101 — PROPOSED MINOR CONTOUR
- 240.50 — PROPOSED GRADE
- X — REQUIRED SETBACK LINE
- PROPOSED BUILDING
- PROPOSED OVERHEAD DOOR
- PROPOSED BUILDING ENTRANCE
- PROPOSED LOADING DOCK
- PROPOSED DRAINAGE SWALE
- ST — PROPOSED STORMWATER PIPE
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- CB — CATCH BASIN
- DCB — DOUBLE CATCH BASIN
- WQU — WATER QUALITY UNIT
- OCS — OUTLET CONTROL STRUCTURE
- 230 — EXISTING MAJOR CONTOURS
- 231 — EXISTING MINOR CONTOURS
- (234.50) — EXISTING GRADE
- EXISTING BUILDING
- TP-1 — EXISTING FUSS & O'NEILL TEST PIT LOCATION
- BSC-1 — EXISTING BSC GROUP TEST PIT LOCATION
- ST — EXISTING STORM LINE
- EXISTING WETLANDS BUFFER
- EXISTING WETLANDS
- EXISTING GUARD RAIL
- EXISTING LEACHING FIELD
- EXISTING UTILITY POLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING UTILITY CENTERLINE
- EXISTING TREE
- EXISTING ENTRANCE
- EXISTING TRANSFORMER

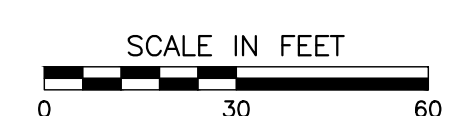
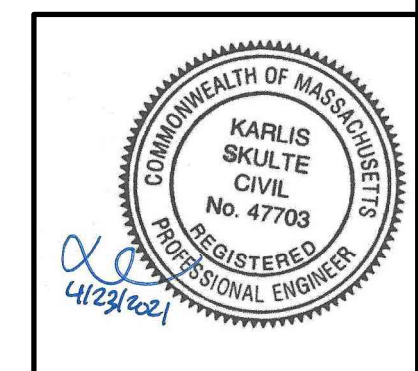
NO.	DATE	DESCRIPTION

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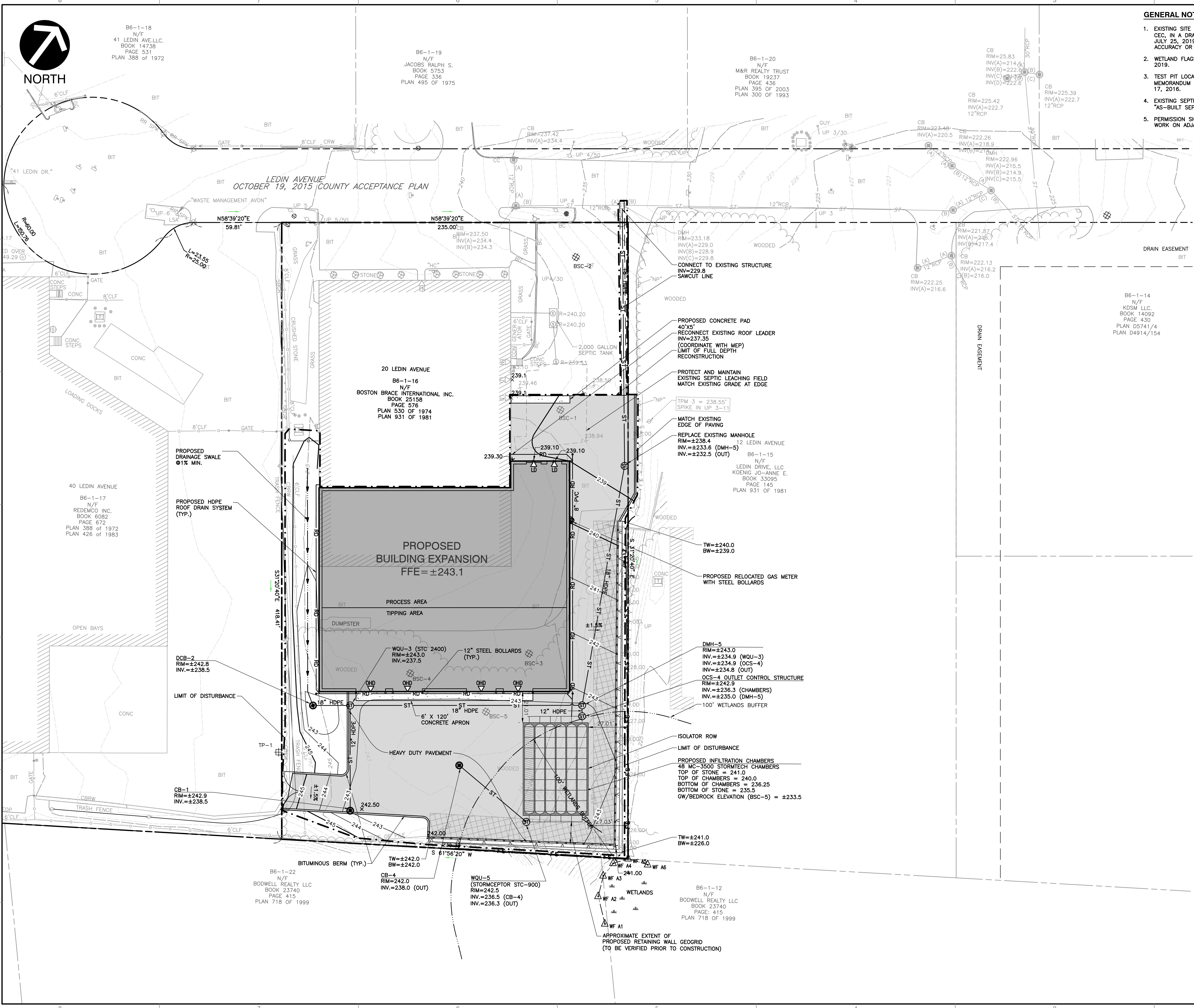
GRADING AND DRAINAGE PLAN

DATE: APRIL 25, 2021
DRAWN BY: EMM/KPS
PROJECT NO: 1-30
CHECKED BY: KPS
APPROVED BY: KPS



DRAWING NO: **C300**
SHEET 5 OF 9

A:\170-2001\171-3981-0002\DWG\DWG-30 Ledin Avenue Redevelopment 2019-07-11.dwg - C300-Grading, Drainage and Erosion Control.dwg (2/2/2021 11:15 AM) - LP: 4/23/2021 3:15 PM



PROPOSED HDPE ROOF DRAIN SYSTEM (TYP.)

PROPOSED BUILDING EXPANSION
FFE = ±243.1

PROCESS AREA
TIPPING AREA

WQU-3 (STC 2400)
RIM=±243.0
INV.=±237.5

6' x 120' CONCRETE APRON

BITUMINOUS BERM (TYP.)
TW=±242.0
BW=±242.0

WQU-5 (STORMCEPTOR STC-900)
RIM=242.5
INV.=236.5 (CB-4)
INV.=236.3 (OUT)

APPROXIMATE EXTENT OF PROPOSED RETAINING WALL GEOGRID (TO BE VERIFIED PRIOR TO CONSTRUCTION)

PROPOSED CONCRETE PAD
40'x5'
RECONNECT EXISTING ROOF LEADER
INV.=±237.35
(COORDINATE WITH MEP)
LIMIT OF FULL DEPTH RECONSTRUCTION

PROTECT AND MAINTAIN EXISTING SEPTIC LEACHING FIELD
MATCH EXISTING GRADE AT EDGE

TPM 3 = 238.55'
SPIKE IN UP 3-11

REPLACE EXISTING MANHOLE
RIM=±238.4
INV.=±233.6 (DMH-5)
INV.=±232.5 (OUT)

PROPOSED RELOCATED GAS METER WITH STEEL BOLLARDS

DMH-5
RIM=±243.0
INV.=±234.9 (WQU-3)
INV.=±234.9 (OCS-4)
INV.=±234.9 (OUT)

OCS-4 OUTLET CONTROL STRUCTURE
RIM=±242.9
INV.=±236.3 (CHAMBERS)
INV.=±235.0 (DMH-5)

ISOLATOR ROW
LIMIT OF DISTURBANCE

PROPOSED INFILTRATION CHAMBERS
48 MC-3500 STORMTECH CHAMBERS
TOP OF STONE = 241.0
TOP OF CHAMBERS = 240.0
BOTTOM OF CHAMBERS = 236.25
BOTTOM OF STONE = 235.5
GW/BEDROCK ELEVATION (BSC-5) = ±233.5

TW=±241.0
BW=±226.0

B6-1-12
N/F
BODWELL REALTY LLC
BOOK 23740
PAGE: 415
PLAN 718 OF 1999

B6-1-14
N/F
KDSM LLC.
BOOK 14092
PAGE 430
PLAN D5741/4
PLAN D4914/154



B6-1-18
N/F
41 LEDIN AVE. LLC.
BOOK 14738
PAGE 531
PLAN 388 OF 1972

B6-1-19
N/F
JACOBS RALPH S.
BOOK 5753
PAGE 336
PLAN 495 OF 1975

B6-1-20
N/F
M&R REALTY TRUST
BOOK 19237
PAGE 436
PLAN 395 OF 2003
PLAN 300 OF 1993

CB
RIM=25.83
INV(A)=214.4 (A)
INV(B)=222.6 (B)
INV(C)=213.6 (C)
INV(D)=222.6

CB
RIM=225.42
INV(A)=222.7
12" RCP

CB
RIM=223.48
INV(A)=220.5

CB
RIM=222.26
INV(A)=218.9

CB
RIM=222.96
INV(A)=215.5

CB
RIM=222.13
INV(A)=216.2

CB
RIM=222.25
INV(A)=216.6

B6-1-14
N/F
KDSM LLC.
BOOK 14092
PAGE 430
PLAN D5741/4
PLAN D4914/154

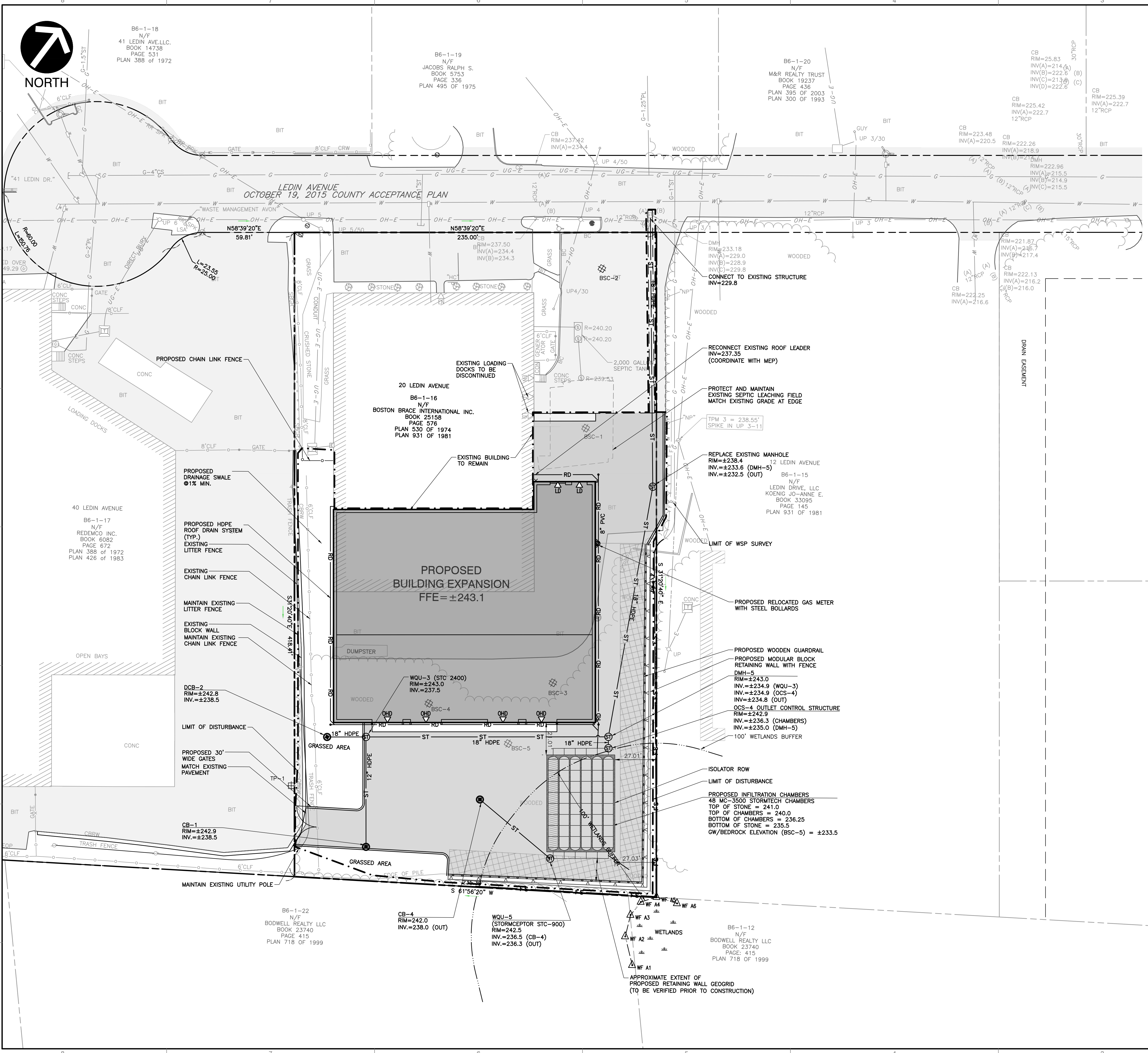
20 LEDIN AVENUE
B6-1-16
N/F
BOSTON BRACE INTERNATIONAL INC.
BOOK 25158
PAGE 576
PLAN 530 OF 1974
PLAN 931 OF 1981

B6-1-15
N/F
LEDIN DRIVE, LLC
KOEING JO-ANNE E.
BOOK 33095
PAGE 145
PLAN 931 OF 1981

40 LEDIN AVENUE
B6-1-17
N/F
REDEMCO INC.
BOOK 6082
PAGE 672
PLAN 388 OF 1972
PLAN 426 OF 1983

A:\170-2001\171-3981-0000\Draw\DWG\171-3981-0000-Utility_Plan.dwg (2/2/2021) = LP: 4/23/2021 2:39 PM

LEDIN AVENUE
OCTOBER 19, 2015 COUNTY ACCEPTANCE PLAN



GENERAL NOTES

- EXISTING SITE INFORMATION / TOPOGRAPHIC SURVEY WAS PREPARED BY WSP, AND PROVIDED TO CEC, IN A DRAWING TITLED "EXISTING CONDITIONS PLAN," DATED MARCH 29, 2019 AND REVISED ON JULY 25, 2019. CEC IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
- WETLAND FLAGS WF-A1 THROUGH WF-A6 DELINEATED BY LUCAS ENVIRONMENTAL, LLC IN JULY 2019.
- TEST PIT LOCATIONS ARE APPROXIMATE AND WERE PROVIDED TO CEC BY WASTE MANAGEMENT IN A MEMORANDUM BY FUSS & O'NEILL TITLED "TEST PITS AND INFILTRATION TESTING," DATED AUGUST 17, 2016.
- EXISTING SEPTIC SYSTEM AND TEST PIT INFORMATION WAS OBTAINED FROM DRAWING TITLED "AS-BUILT SEPTIC SYSTEM," BY BSC GROUP, DATED JULY 3, 2003.
- PERMISSION SHALL BE OBTAINED FROM ADJACENT PROPERTY OWNERS PRIOR TO PERFORMING ANY WORK ON ADJACENT PROPERTIES.

LEGEND

- PROPERTY BOUNDARY
- 100 — PROPOSED MAJOR CONTOUR
- 101 — PROPOSED MINOR CONTOUR
- 240.50 — PROPOSED GRADE
- — REQUIRED SETBACK LINE
- ▭ — PROPOSED BUILDING
- ▭ — PROPOSED OVERHEAD DOOR
- ▭ — PROPOSED BUILDING ENTRANCE
- ▭ — PROPOSED LOADING DOCK
- — PROPOSED DRAINAGE SWALE
- ST — PROPOSED STORMWATER PIPE
- ⊙ — PROPOSED CATCH BASIN
- ⊙ — PROPOSED DRAINAGE MANHOLE
- CB — CATCH BASIN
- DCB — DOUBLE CATCH BASIN
- WQU — WATER QUALITY UNIT
- OCS — OUTLET CONTROL STRUCTURE
- ▭ — EXISTING BUILDING
- ⊙ — EXISTING FUSS & O'NEIL TEST PIT LOCATION
- ⊙ — EXISTING BSC GROUP TEST PIT LOCATION
- G — EXISTING GAS LINE
- OH-E — EXISTING OVERHEAD WIRES
- W — EXISTING WATER LINE
- ST — EXISTING STORM LINE
- E — EXISTING UNDERGROUND ELECTRICAL
- — EXISTING WETLANDS BUFFER
- ▭ — EXISTING WETLANDS
- — EXISTING GUARD RAIL
- — EXISTING LEACHING FIELD
- — EXISTING UTILITY POLE
- ⊙ — EXISTING SANITARY SEWER MANHOLE
- ⊙ — EXISTING GAS METER
- ⊙ — EXISTING WATER METER
- — EXISTING UTILITY CENTERLINE
- — EXISTING TREE
- — EXISTING ENTRANCE
- — EXISTING TRANSFORMER

REVISION RECORD

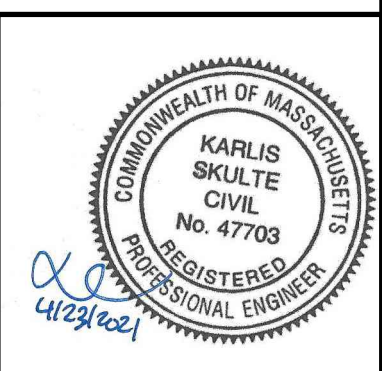
NO.	DATE	DESCRIPTION

Civil & Environmental Consultants, Inc.
31 Bellows Road - Raynham, MA 02767
Ph: 774.501.2176 - 866.312.2024 - Fax: 774.501.2669
www.cecinc.com

WASTE MANAGEMENT OF MA, INC.
SITE REDEVELOPMENT
20 LEDIN AVENUE
AVON, MASSACHUSETTS

UTILITY PLAN

DATE: APRIL 25, 2021
DRAWN BY: EMM/KPS
DWG SCALE: 1"=30'
PROJECT NO: 311-989
APPROVED BY: KPS

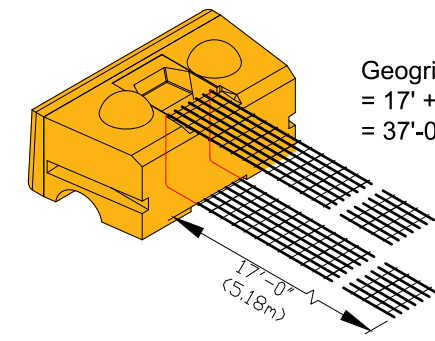


DRAWING NO: **C500**
SHEET 6 OF 9

LOAD CONDITION B 250 lb/ft² (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

16 BLOCK HIGH SECTION
(16) 28" (710 mm) Blocks

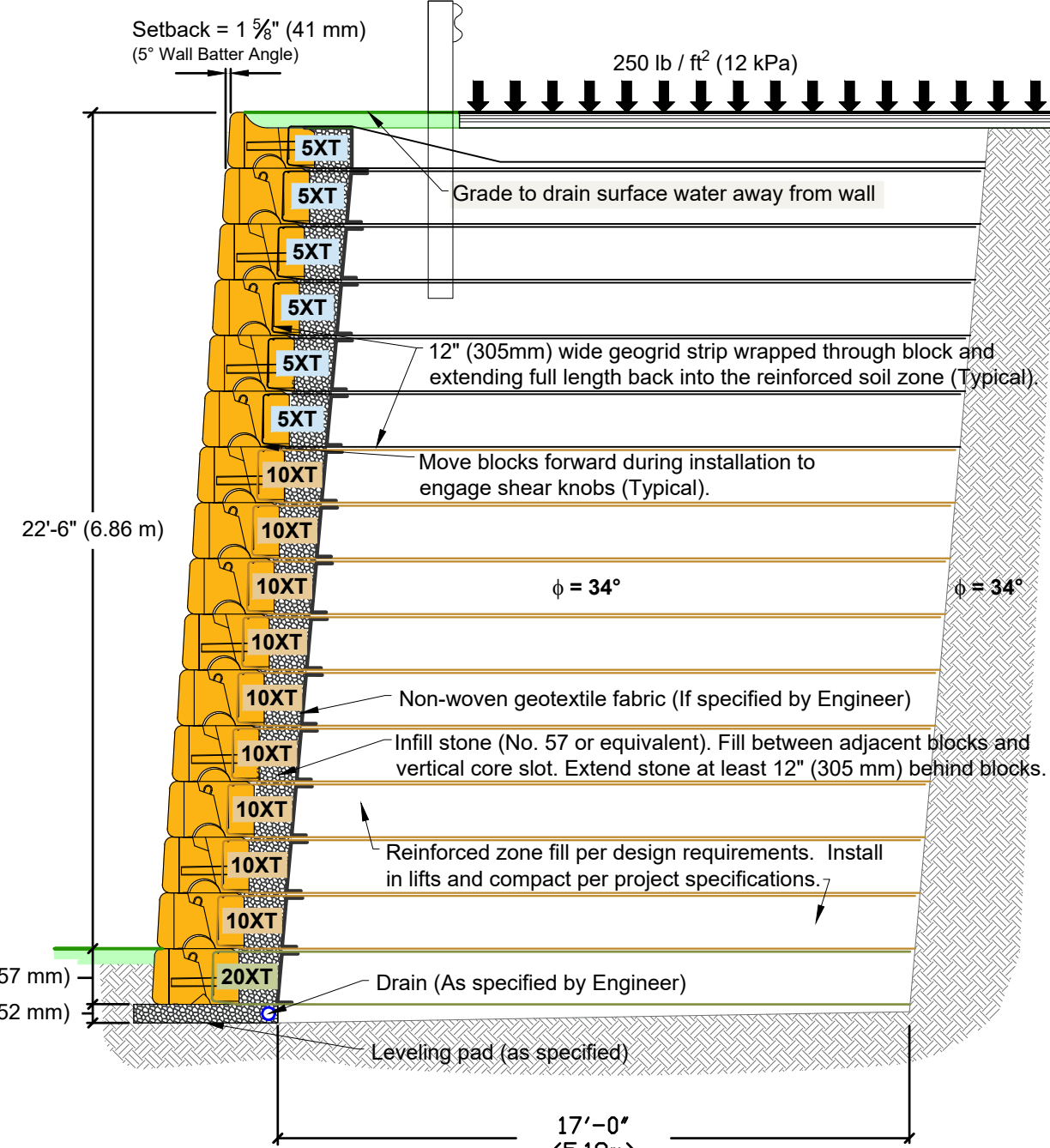
PRELIMINARY
Professional Engineering Design
Required for Construction



Geogrid cut length:
= 17' + 17' + 3'
= 37'-0" (11.28m)

Geogrid Rolls Required per Wall Length	Type	Rolls / linear ft	Rolls / linear m
5XT	± 0.31	± 1.02	
10XT	± 0.47	± 1.54	
20XT	± 0.05	± 0.17	

Geogrid shall be 12" (305 mm) wide strips of Mirafi geogrid, type as noted. Geogrid shall be **Factory cut** and **Certified** for width and strength by TenCate Mirafi.

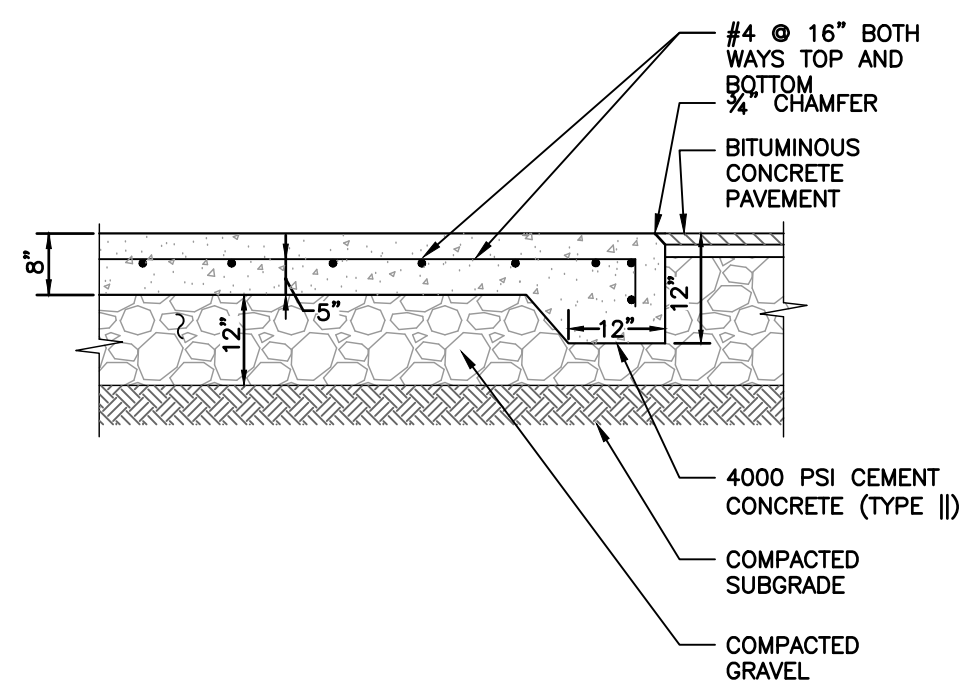


CONSTRUCTION NOTES

1. RETAINING WALL SHOWN IS FOR REFERENCE ONLY. FINAL RETAINING WALL IS TO BE DESIGNED BY STRUCTURAL ENGINEER.

REDIROCK PC SYSTEM WALL

N.T.S.

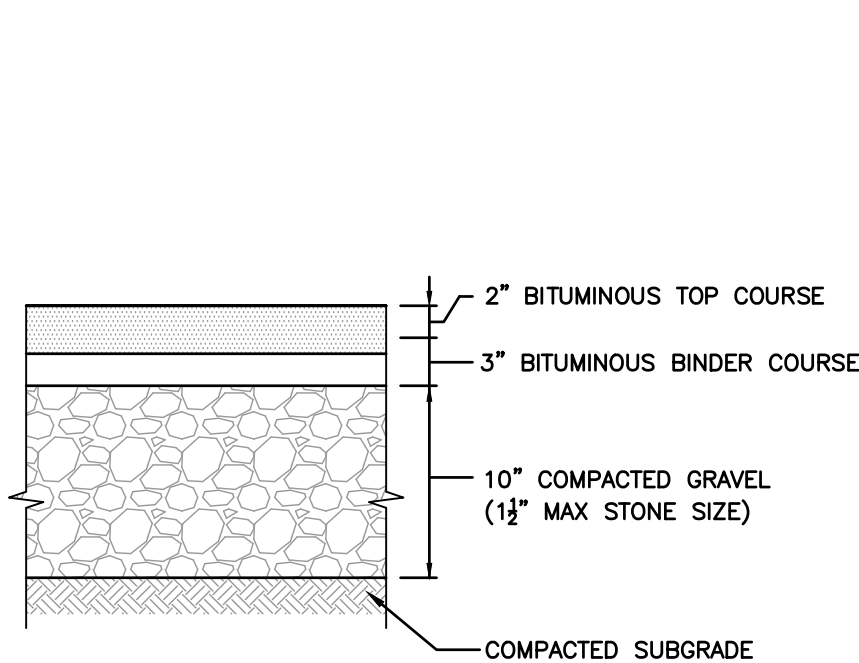


NOTES

1. SIZE OF LOADING DOCK PAD TO BE AS INDICATED ON PLANS.
2. CONSTRUCTION JOINTS SHALL BE SPACED NO MORE THAN 40 FEET ON CENTER AND SHALL BE EQUALLY SPACED OVER THE LENGTH AND WIDTH OF THE PAD.
3. PAVEMENT SECTIONS ARE SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

LOADING DOCK PAD

N.T.S.



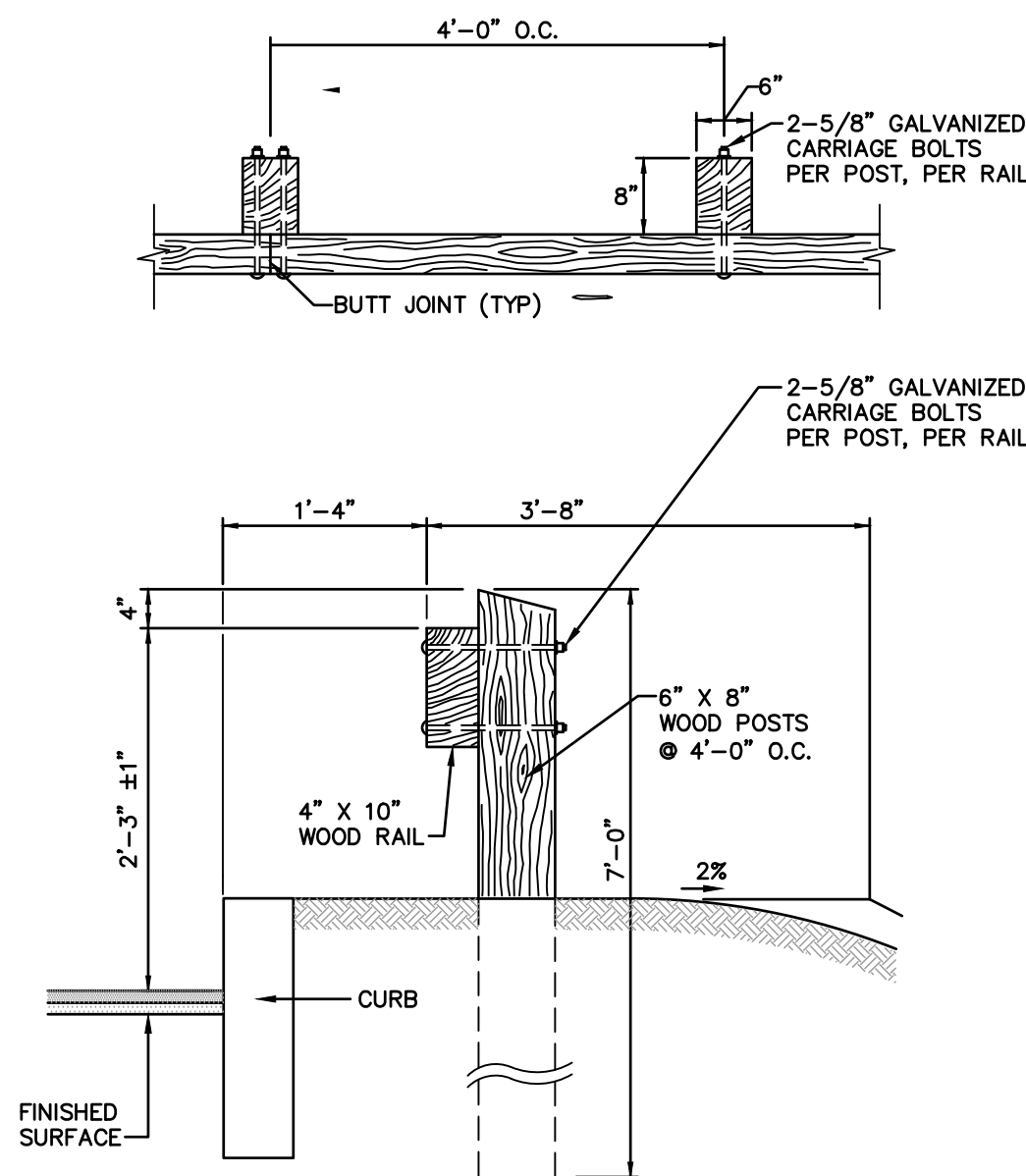
HEAVY DUTY FLEXIBLE PAVEMENT

CONSTRUCTION NOTES

1. PAVEMENT SECTIONS ARE SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

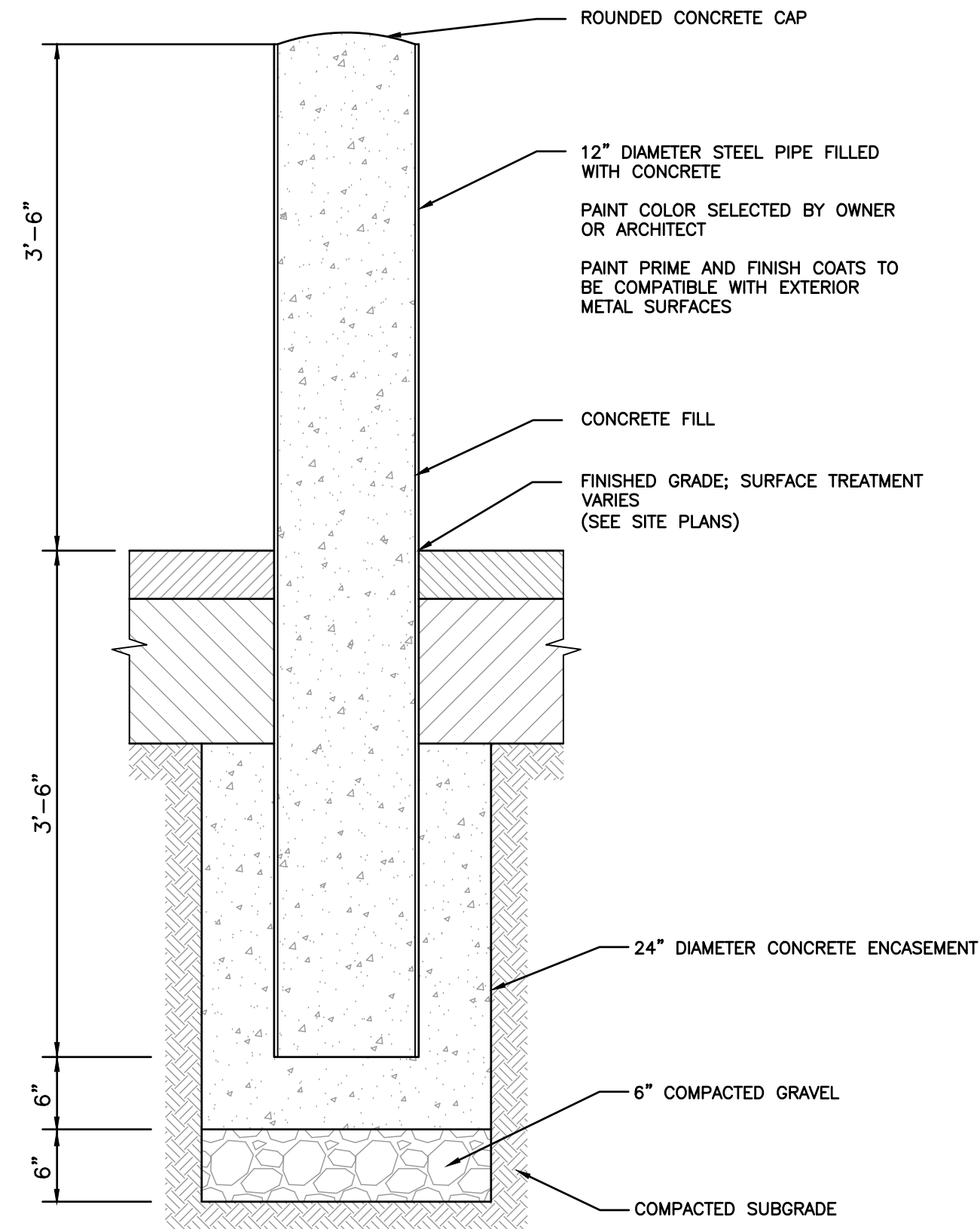
BITUMINOUS CONCRETE PAVEMENT

N.T.S.



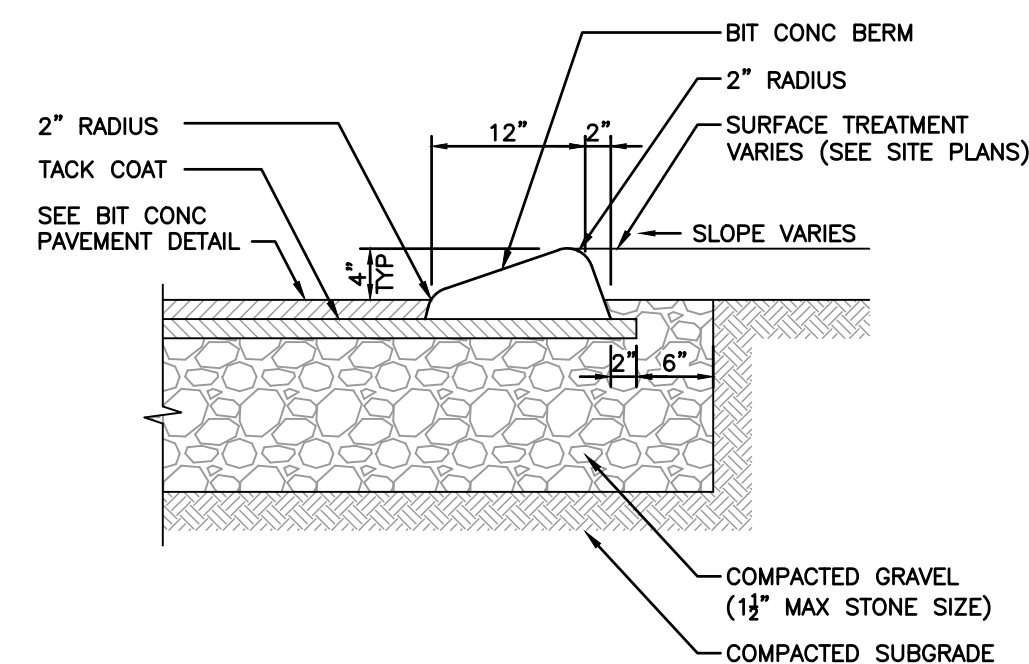
WOOD GUARDRAIL

N.T.S.



BOLLARD

N.T.S.

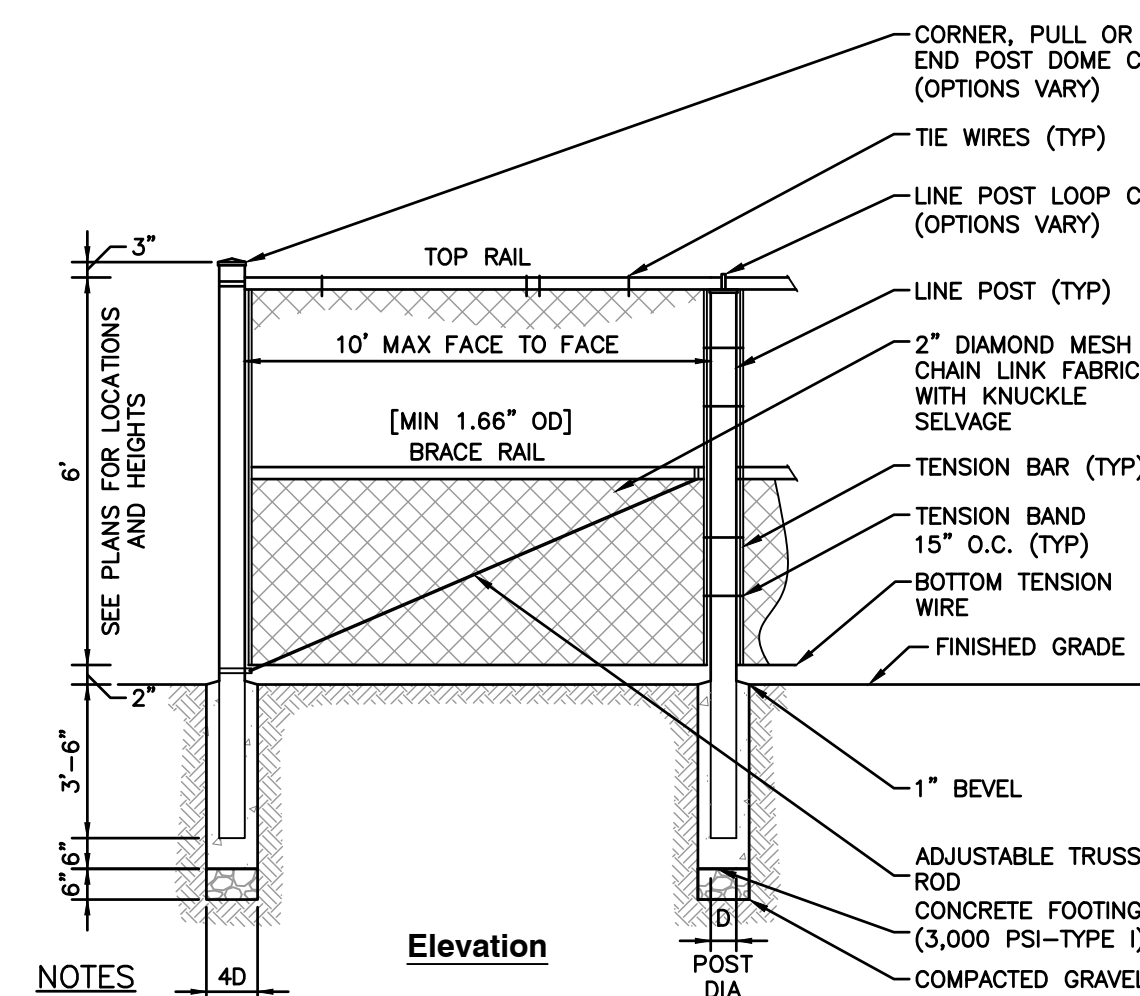


CONSTRUCTION NOTES

1. ALL CURBING TO BE MACHINE EXTRUDED.

BITUMINOUS CONCRETE BERM

N.T.S.

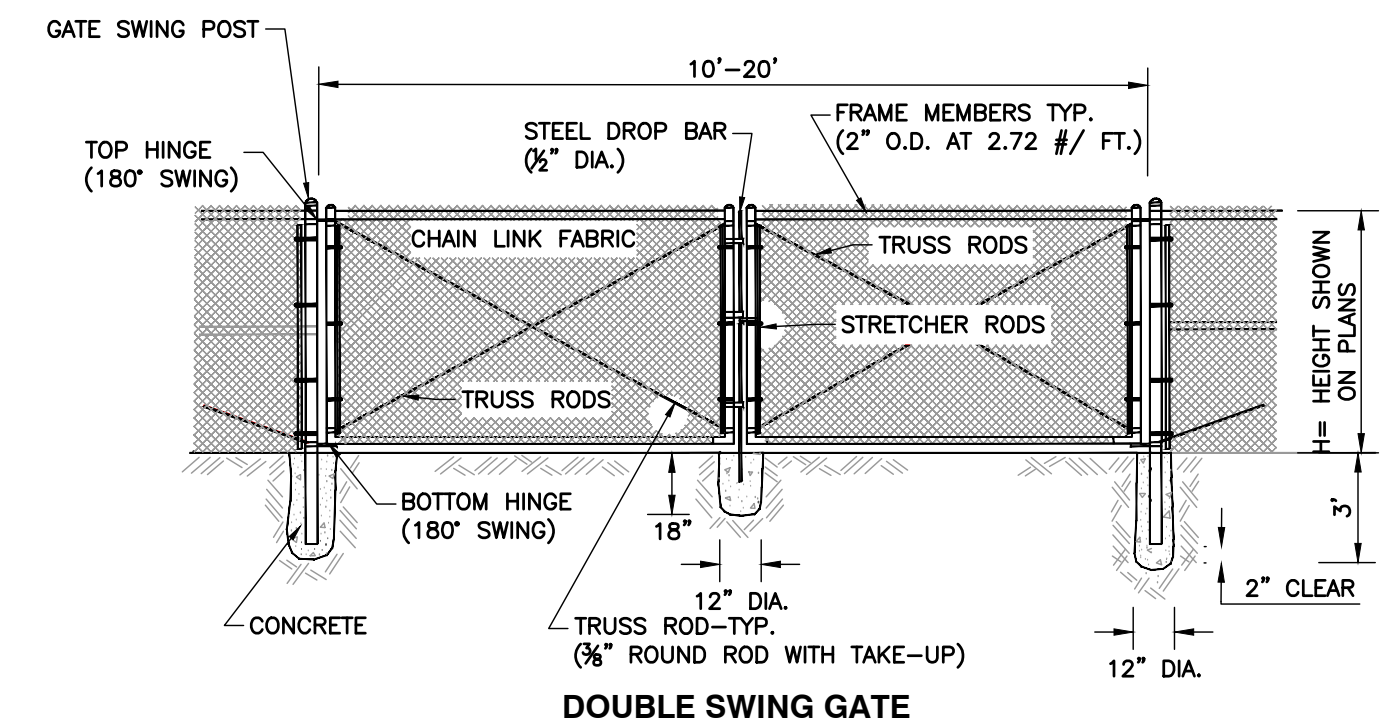


NOTES

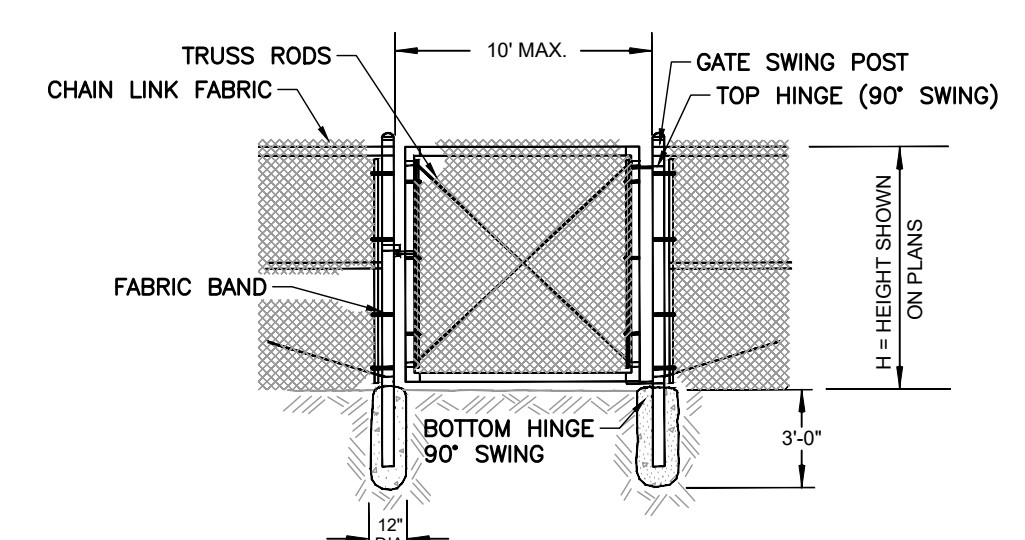
1. FENCE TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE PRODUCT MANUAL.
2. POSTS SHALL MAINTAIN A MINIMUM DEPTH OF 3'-6" IN GROUND AND SHALL NOT BE RACKED TO ACCOMMODATE CHANGES IN GRADE.
3. LINE OF FENCE, TOP AND BOTTOM, SHALL BE INSTALLED STRAIGHT AND TRUE. POSTS SHALL BE INSTALLED PARALLEL AND PLUMB. RAILS SHALL BE INSTALLED PARALLEL TO GROUND SURFACE AND EACH OTHER.

6' CHAIN LINK FENCE

N.T.S.



DOUBLE SWING GATE

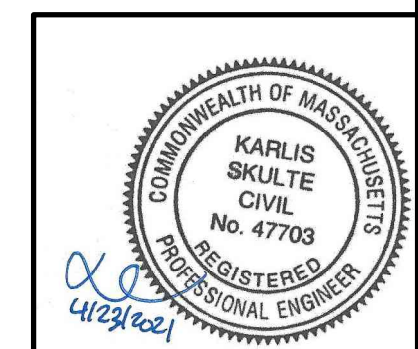


SINGLE GATE

GATE SWING POST DIA.	PIPE DIA.
6' AND LESS	3" O.D. - 5.79 LBS./FT.
6' - 10'	4" O.D. - 9.10 LBS./FT.

CHAIN LINK GATES

N.T.S.



NO.	DATE	DESCRIPTION

C&E
Civil & Environmental Consultants, Inc.
333 Baldwin Road · Pittsburgh, PA 15205
412-429-2324 · 800-365-2324
www.candec.com

WASTE MANAGEMENT OF MA, INC.
SITE REDEVELOPMENT
20 LEDIN AVENUE
AVON, MASSACHUSETTS

SITE DETAILS 1

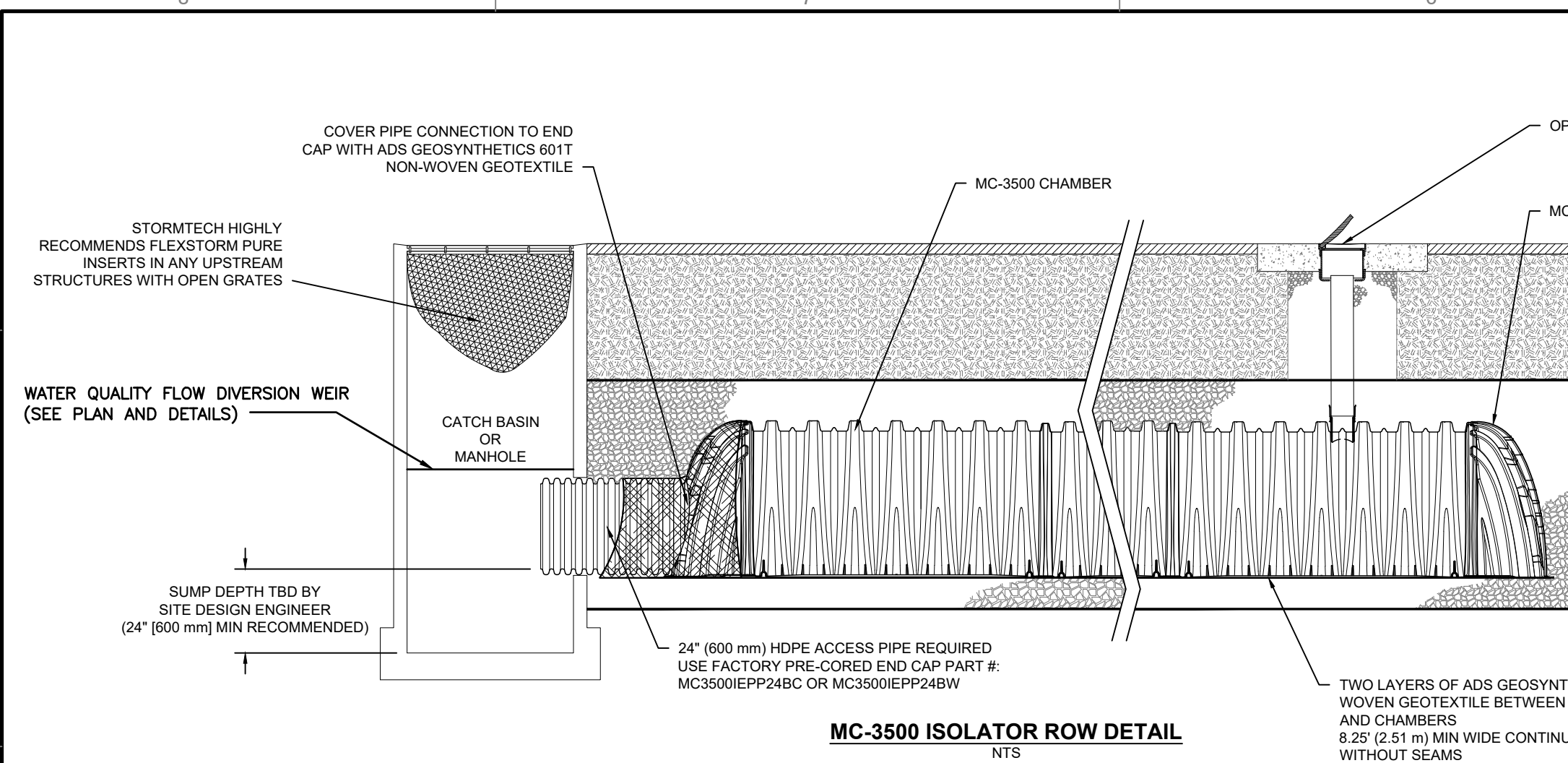
DATE: APRIL 25, 2021 | DRAWN BY: SKULTE
DWG SCALE: AS SHOWN | CHECKED BY: SKULTE
PROJECT NO: 311-989
APPROVED BY: SKULTE

DATE: APRIL 25, 2021 | DRAWN BY: SKULTE
DWG SCALE: AS SHOWN | CHECKED BY: SKULTE
PROJECT NO: 311-989
APPROVED BY: SKULTE

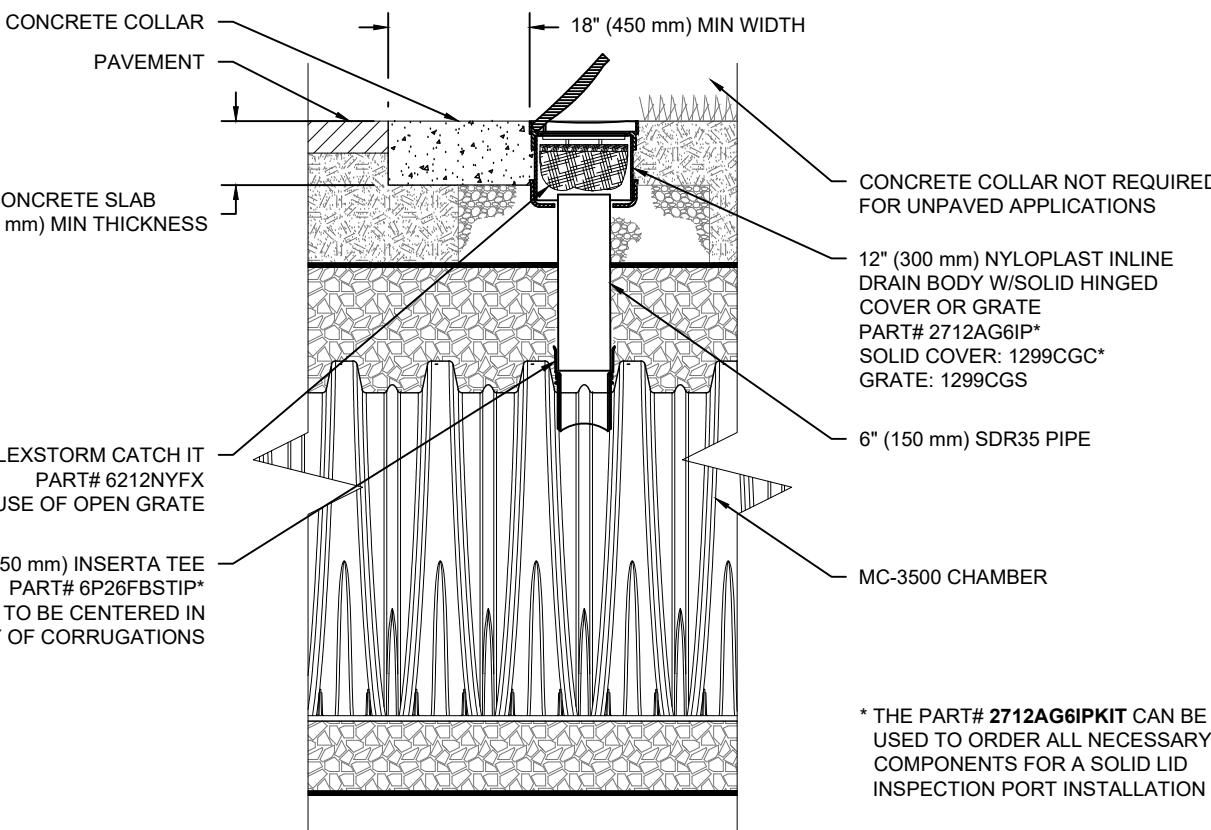
C800

SHEET 7 OF 9

A:\170-2001\171-3981-C800\Drawings\DWG\171-3981-C800-Details\DWG\DETAILS 11 15/16/2021 11:28 AM



MC-3500 ISOLATOR ROW DETAIL
NTS



MC-3500 6\"/>NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3\"/>
 - B. ALL ISOLATOR ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3\"/>
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45\"/>
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

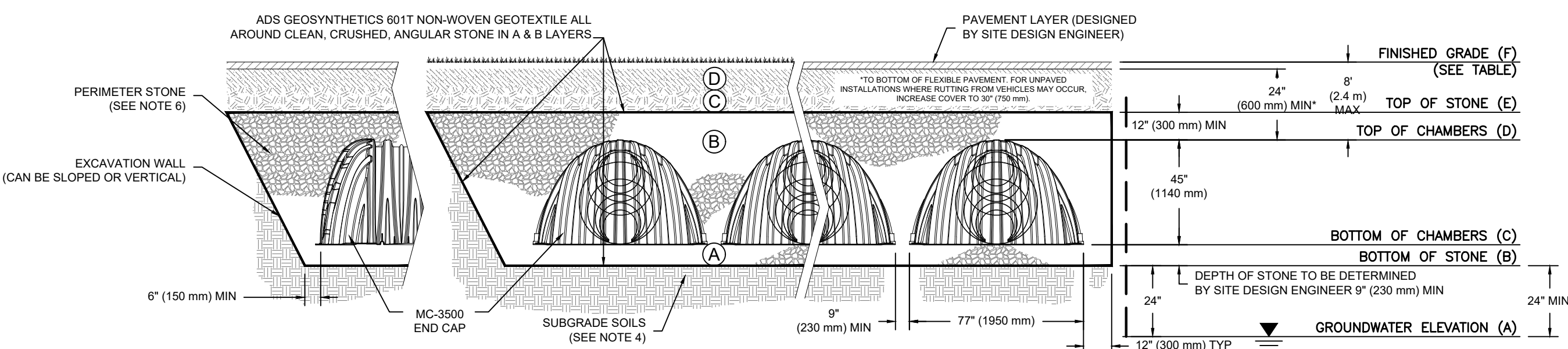
NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24\"/>	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24\"/>
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{1, 2}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR, NO. 4 (AASHTO M43) STONE.
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9\"/>



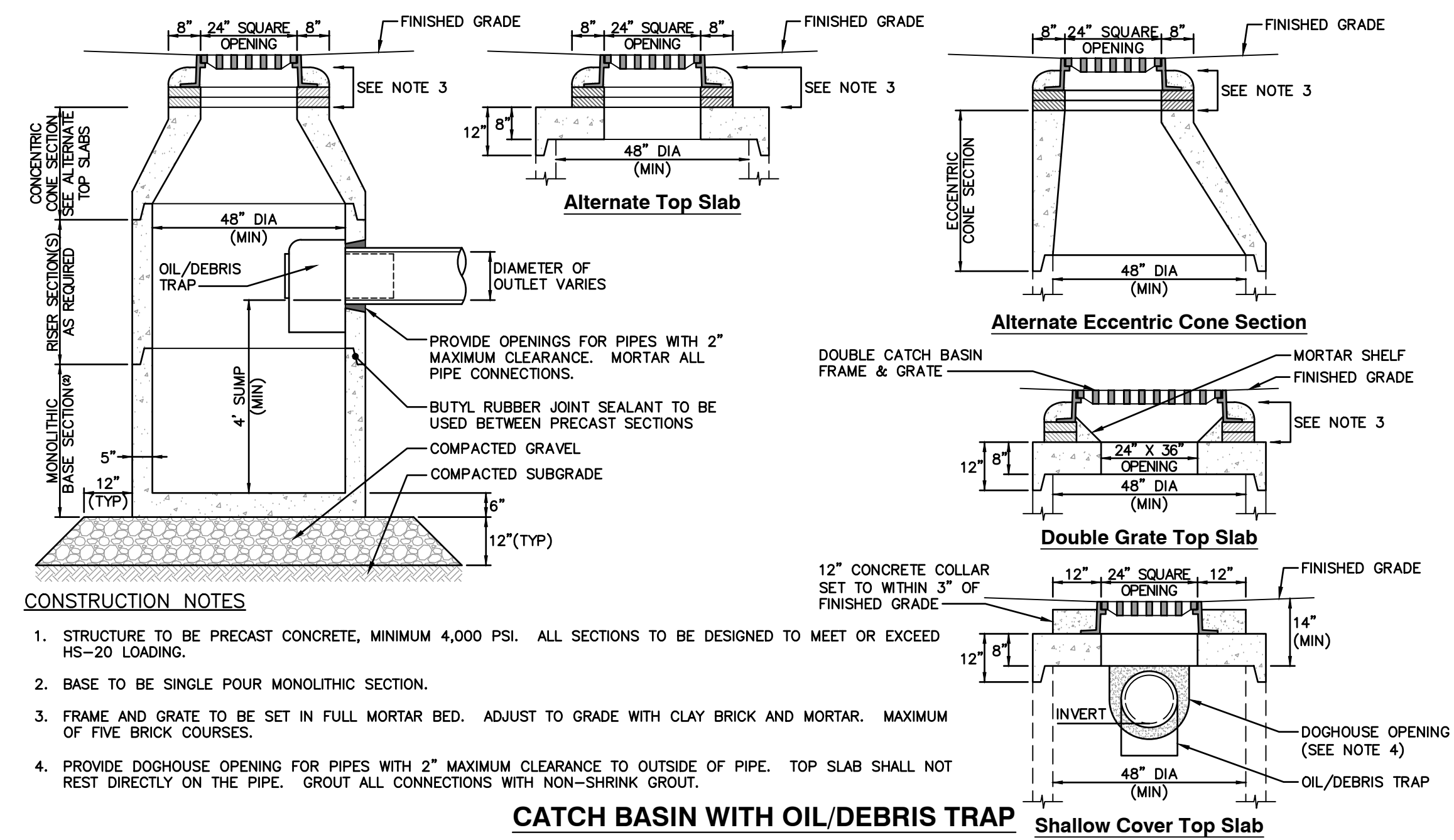
INFILTRATION CHAMBER I.D.	(A) GROUNDWATER EL.	(B) BOTTOM OF STONE	(C) BOTTOM OF CHAMBERS	(D) TOP OF CHAMBERS	(E) TOP OF STONE	(F) MIN. FINISHED GRADE
A1 (48 CHAMBERS)	±233.5	235.5	236.25	240.00	241.00	242.50

NOTES:

- MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS. ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

STORMTECH MC 3500 TYPICAL DETAIL

N.T.S.

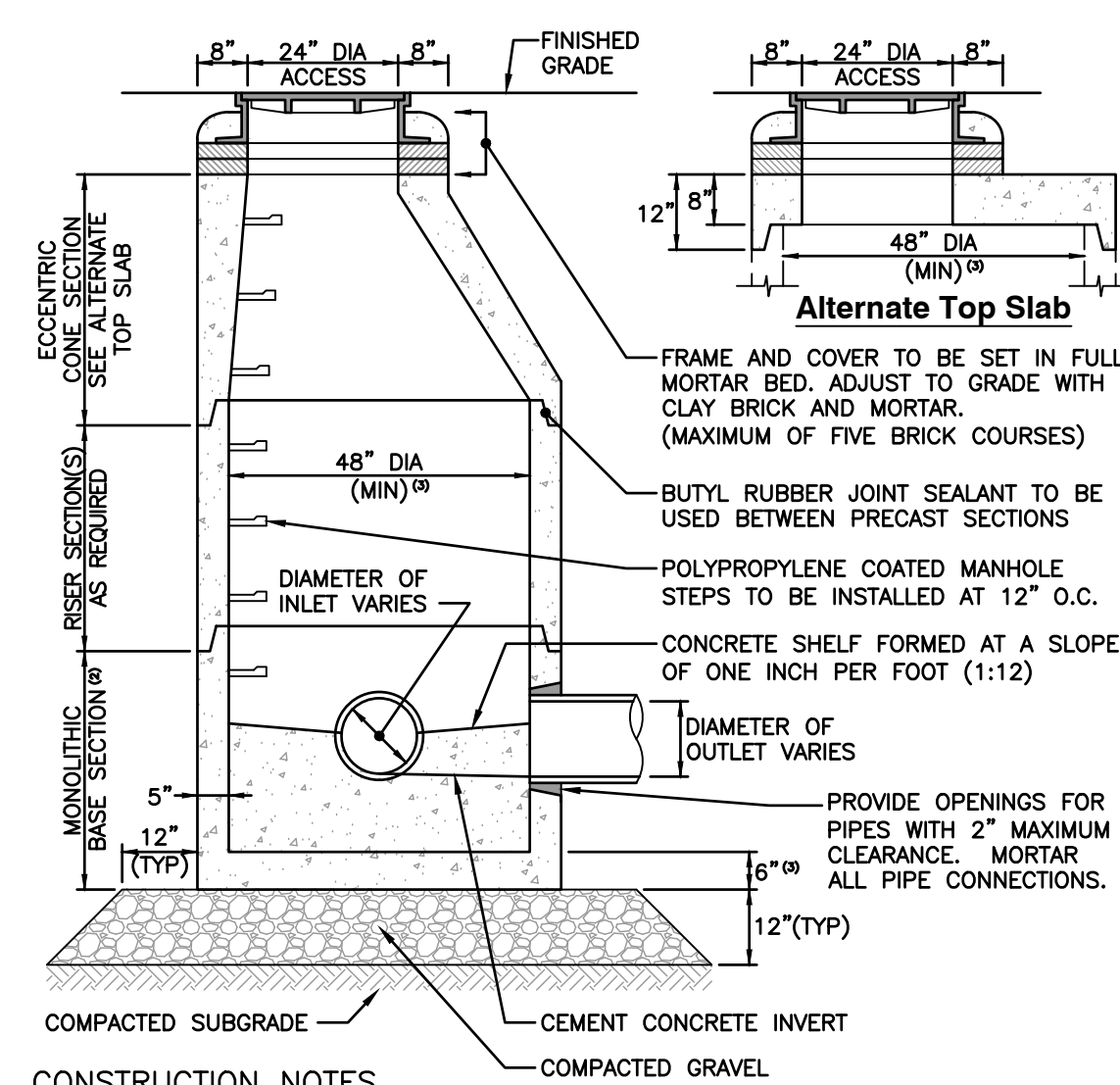


CONSTRUCTION NOTES

- STRUCTURE TO BE PRECAST CONCRETE, MINIMUM 4,000 PSI. ALL SECTIONS TO BE DESIGNED TO MEET OR EXCEED HS-20 LOADING.
- BASE TO BE SINGLE POUR MONOLITHIC SECTION.
- FRAME AND GRATE TO BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR. MAXIMUM OF FIVE BRICK COURSES.
- PROVIDE DOGHOUSE OPENING FOR PIPES WITH 2\"/>

CATCH BASIN WITH OIL/DEBRIS TRAP

N.T.S.



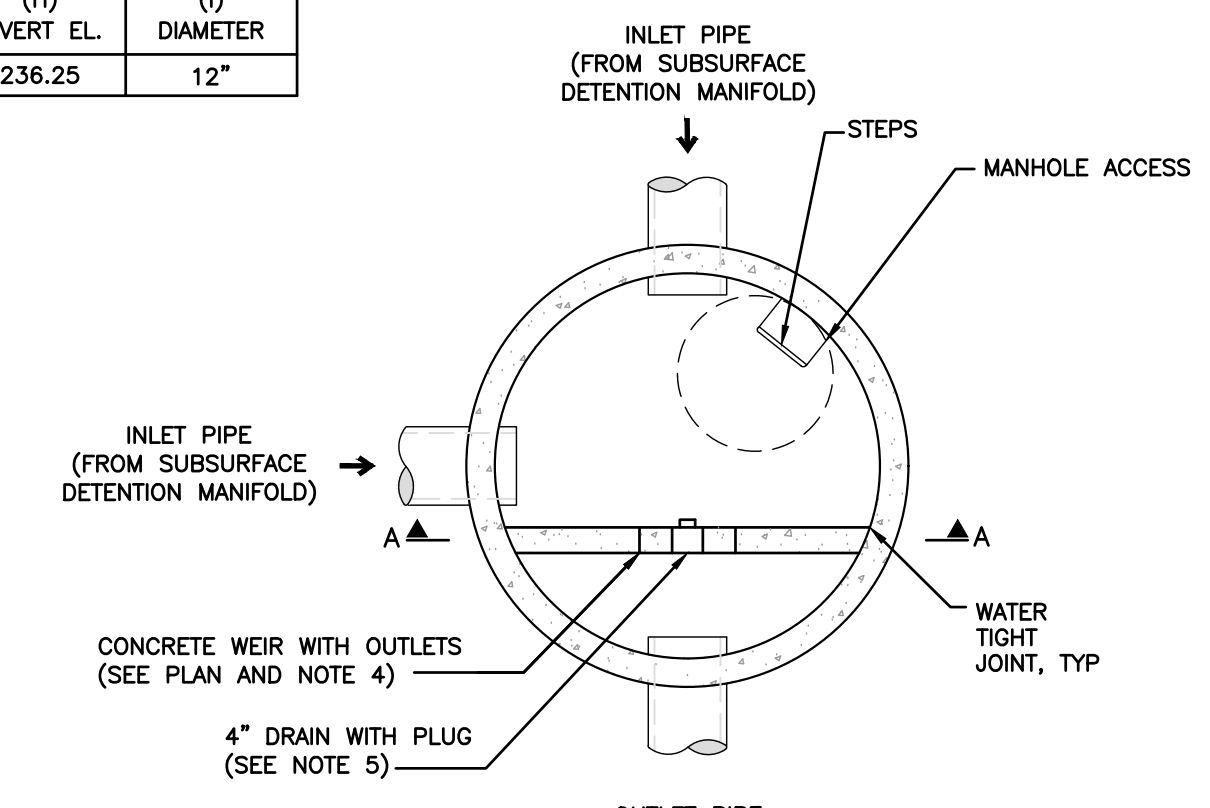
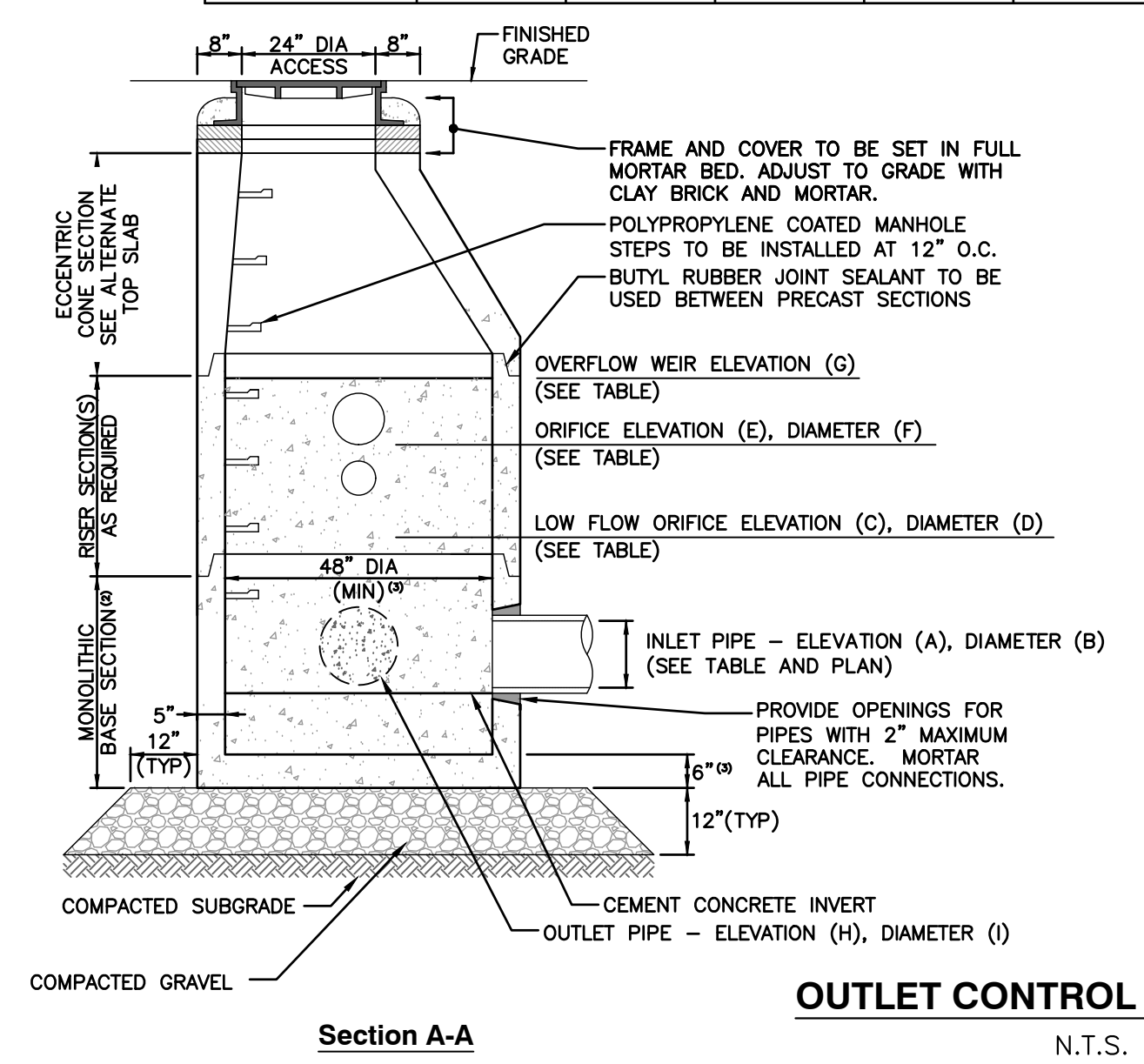
CONSTRUCTION NOTES

- STRUCTURE TO BE PRECAST CONCRETE, MINIMUM 4,000 PSI. ALL SECTIONS TO BE DESIGNED TO MEET OR EXCEED HS-20 LOADING.
- BASE TO BE SINGLE POUR MONOLITHIC SECTION.
- 60\"/>

DRAIN MANHOLE

N.T.S.

OUTLET CONTROL STRUCTURE	LOW FLOW ORIFICE		ORIFICE (1)		OVERFLOW WEIR	OUTLET PIPE	
	(C) INVERT EL.	(D) DIAMETER	(E) INVERT EL.	(F) DIAMETER	(G) INVERT EL.	(H) INVERT EL.	(I) DIAMETER
OCS 4	236.75	4"	237.50	8"	239.00	236.25	12"



CONSTRUCTION NOTES

- DESIGN IS PRELIMINARY AND SUBJECT TO CHANGE.
- STRUCTURE TO BE PRECAST CONCRETE, MINIMUM 4,000 PSI. ALL SECTIONS TO BE DESIGNED TO MEET OR EXCEED HS-20 LOADING.
- BASE TO BE SINGLE POUR MONOLITHIC SECTION.
- 60\"/>



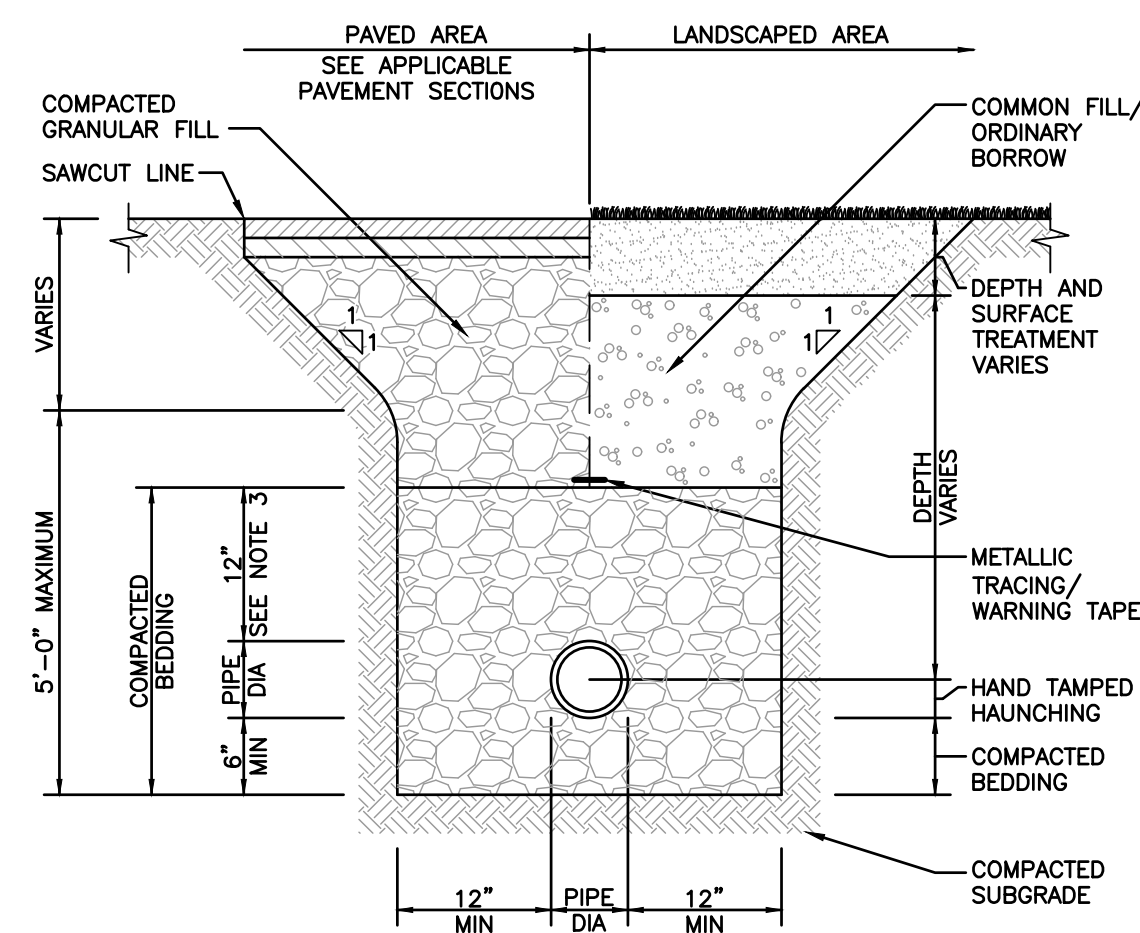
Civil & Environmental Consultants, Inc.
333 Baldwin Road · Pittsburgh, PA 15205
412-429-2324 · 800-365-2324
www.cecinc.com

WASTE MANAGEMENT OF MA, INC.
SITE REDEVELOPMENT
20 LEDIN AVENUE
AVON, MASSACHUSETTS

SITE DETAILS 2

DATE: APRIL 23, 2021 | DRAWN BY: EIMW
DWG SCALE: AS SHOWN | CHECKED BY: 311-989
APPROVED BY: DRAFT

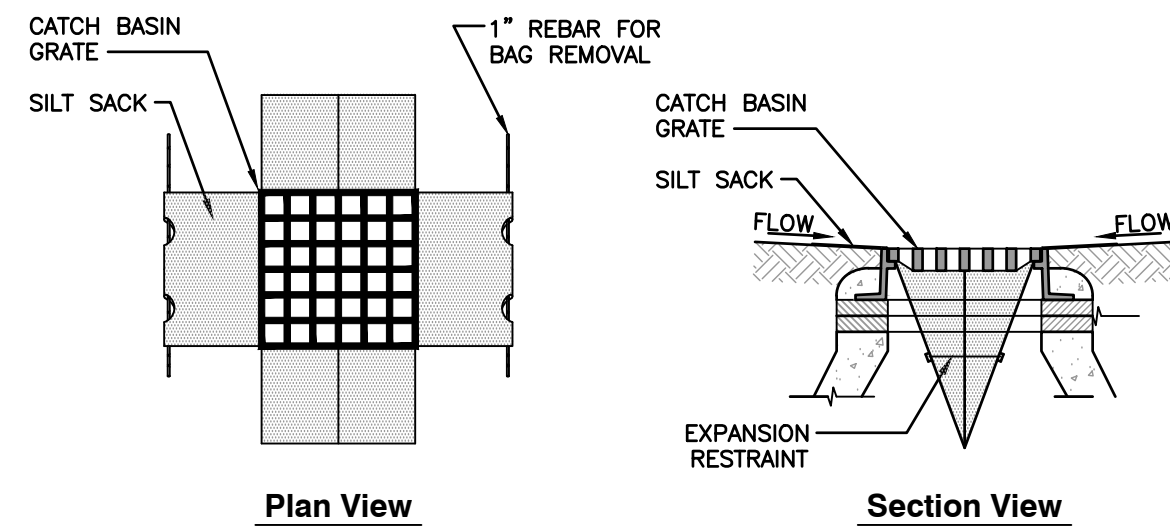
DRAWING NO. **C801**
SHEET 8 OF 9



UTILITY TRENCH

N.T.S.

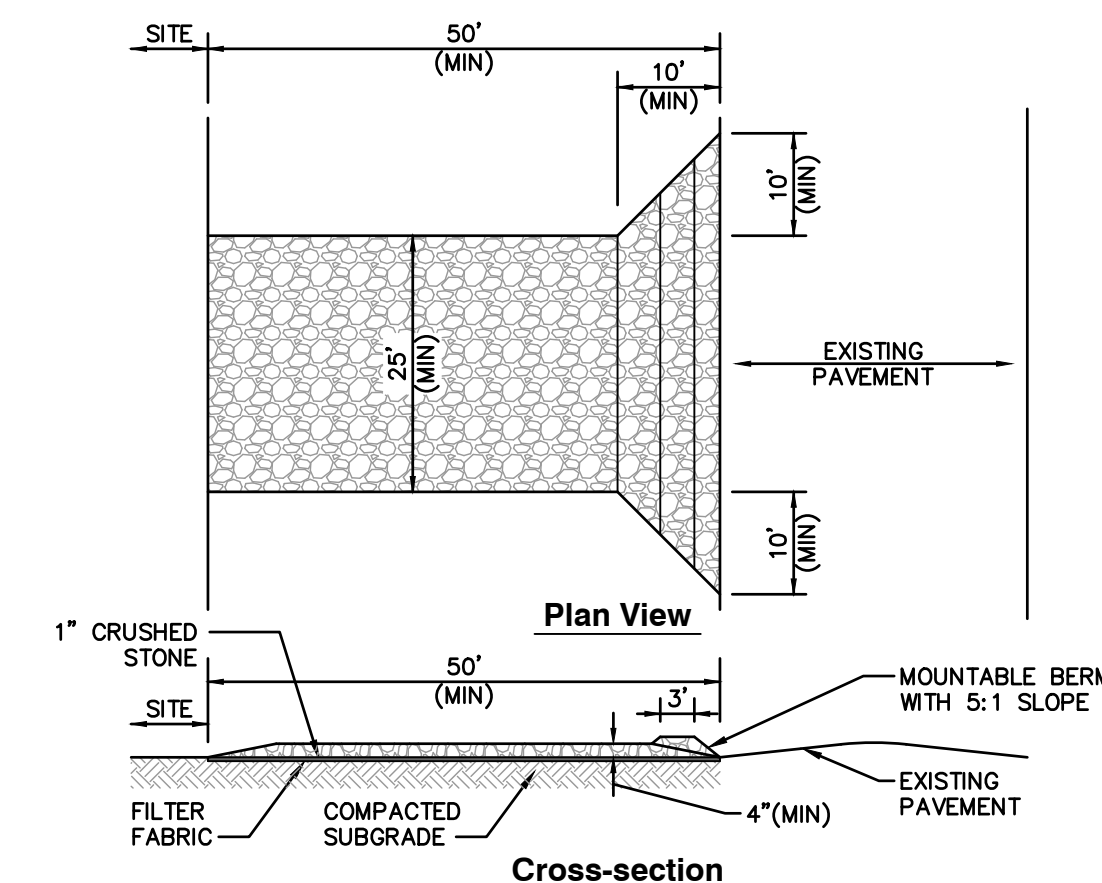
- CONSTRUCTION NOTES**
- WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
 - USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
 - FOR HIGH DENSITY POLYETHYLENE (HDPE) PIPE, DIMENSION IS 24 INCHES.



SILT SACK INLET PROTECTION

N.T.S.

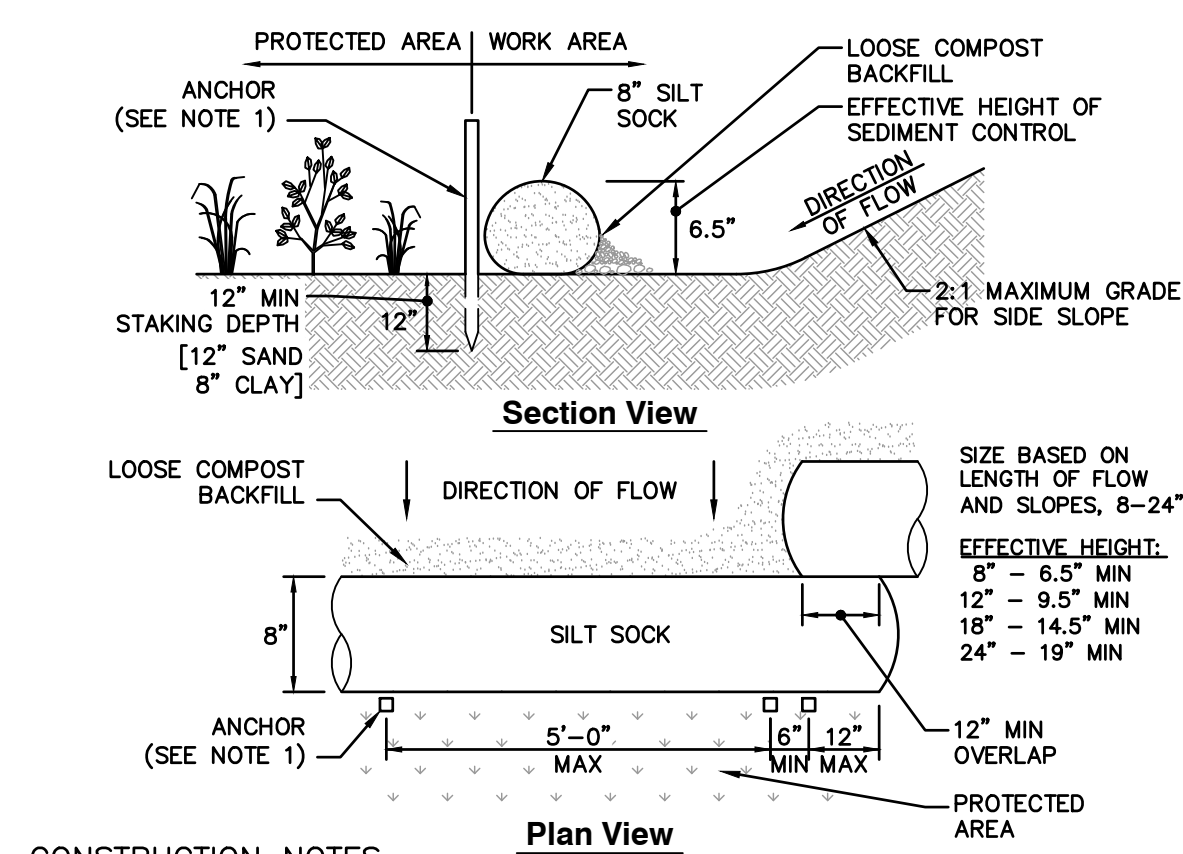
- CONSTRUCTION NOTES**
- INSTALL SILT SACKS IN ALL CATCH BASINS WHERE INDICATED ON THE SITE PLANS BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER THE BINDER COURSE IS PLACED AND EROSION CONTROL BARRIERS HAVE BEEN REMOVED.
 - GRATE TO BE PLACED OVER SILT SACK.
 - SILT SACKS SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS. CLEANING OR REPLACEMENT SHALL BE PERFORMED AS NEEDED. MAINTAIN SILT SACKS UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.



STABILIZED CONSTRUCTION EXIT

N.T.S.

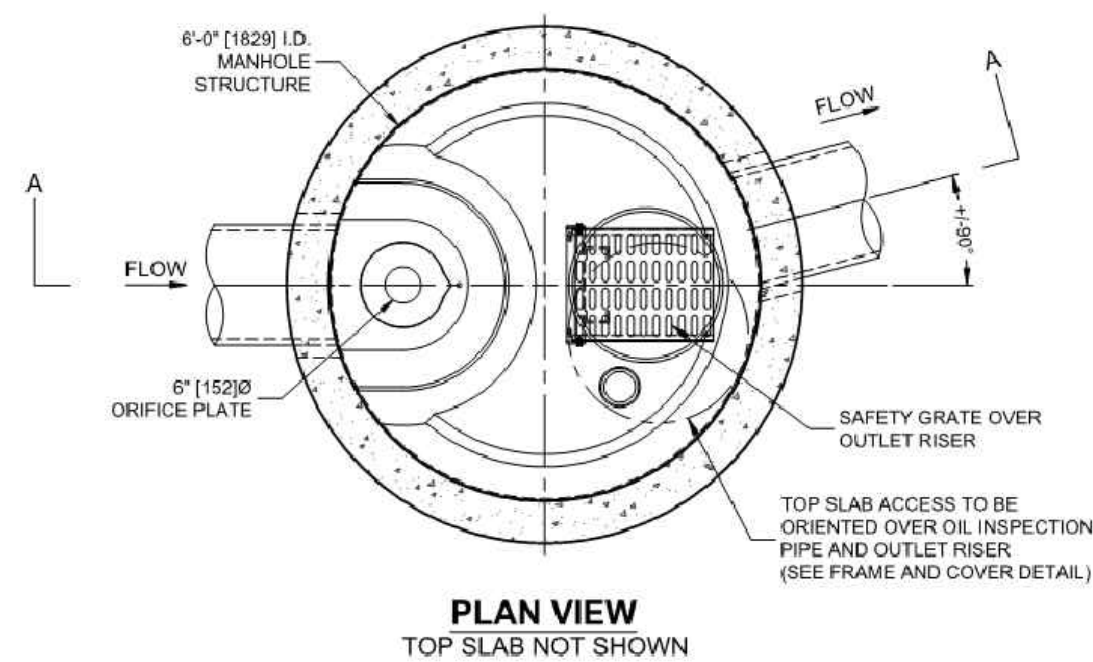
- CONSTRUCTION NOTES**
- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
 - STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED PRIOR TO FINAL FINISHED MATERIALS BEING INSTALLED.



SILT SOCK EROSION CONTROL BARRIER

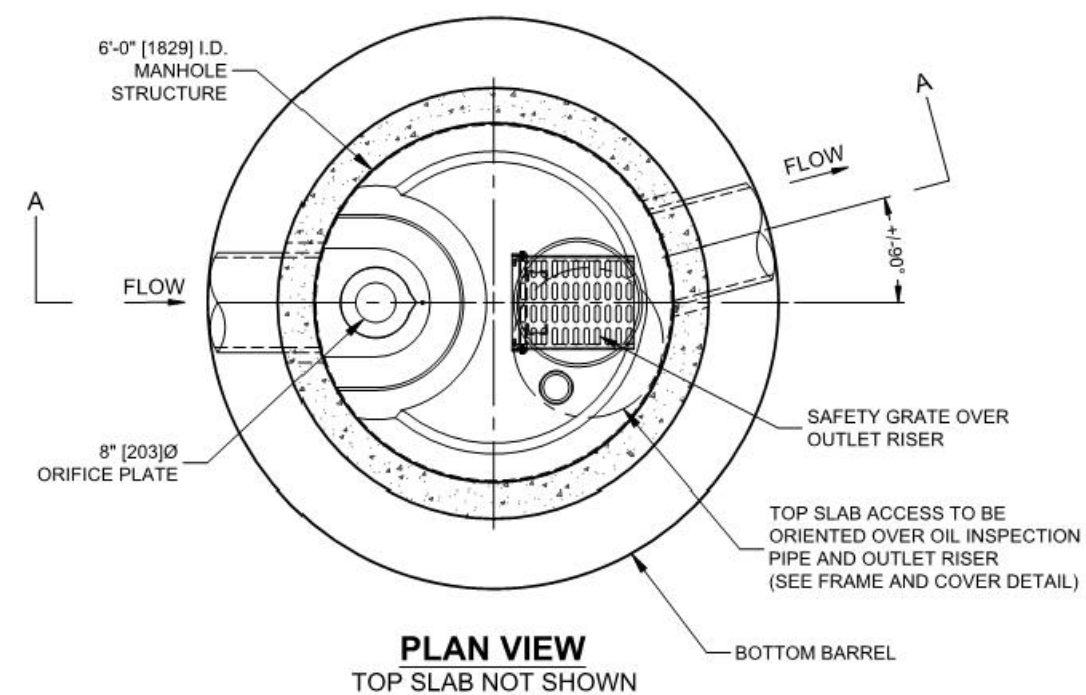
N.T.S.

- CONSTRUCTION NOTES**
- ANCHOR TO BE A 2" X 2" X 36" HARD WOOD STAKE, OR APPROVED EQUAL.
 - COMPOST FOR SILT SOCK FILL MATERIAL TO BE PROVIDED BY THE MANUFACTURER IN CONJUNCTION WITH THE ENGINEER TO PROVIDE THE REQUIRED REMOVAL OF SEDIMENT OR OTHER POLLUTANTS FROM RUNOFF.
 - COMPOST MATERIAL SHALL BE DISPersed ON SITE, AS DETERMINED BY THE LOCAL CONSERVATION AGENT OR THE DESIGN ENGINEER.
 - SILT SOCK SHALL BE INSPECTED PER LOCAL AND STATE REQUIREMENTS. REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY, AS NEEDED.
 - METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.



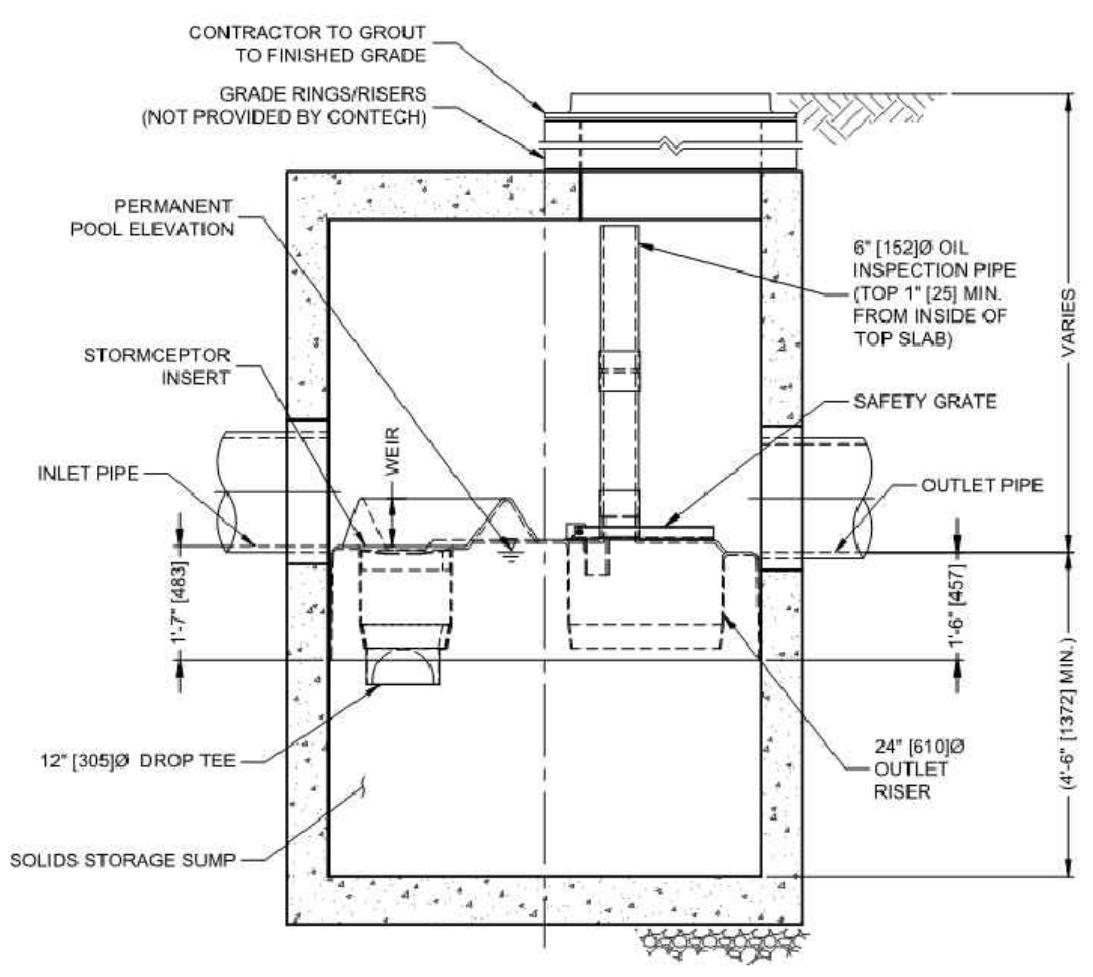
PLAN VIEW

TOP SLAB NOT SHOWN



PLAN VIEW

TOP SLAB NOT SHOWN

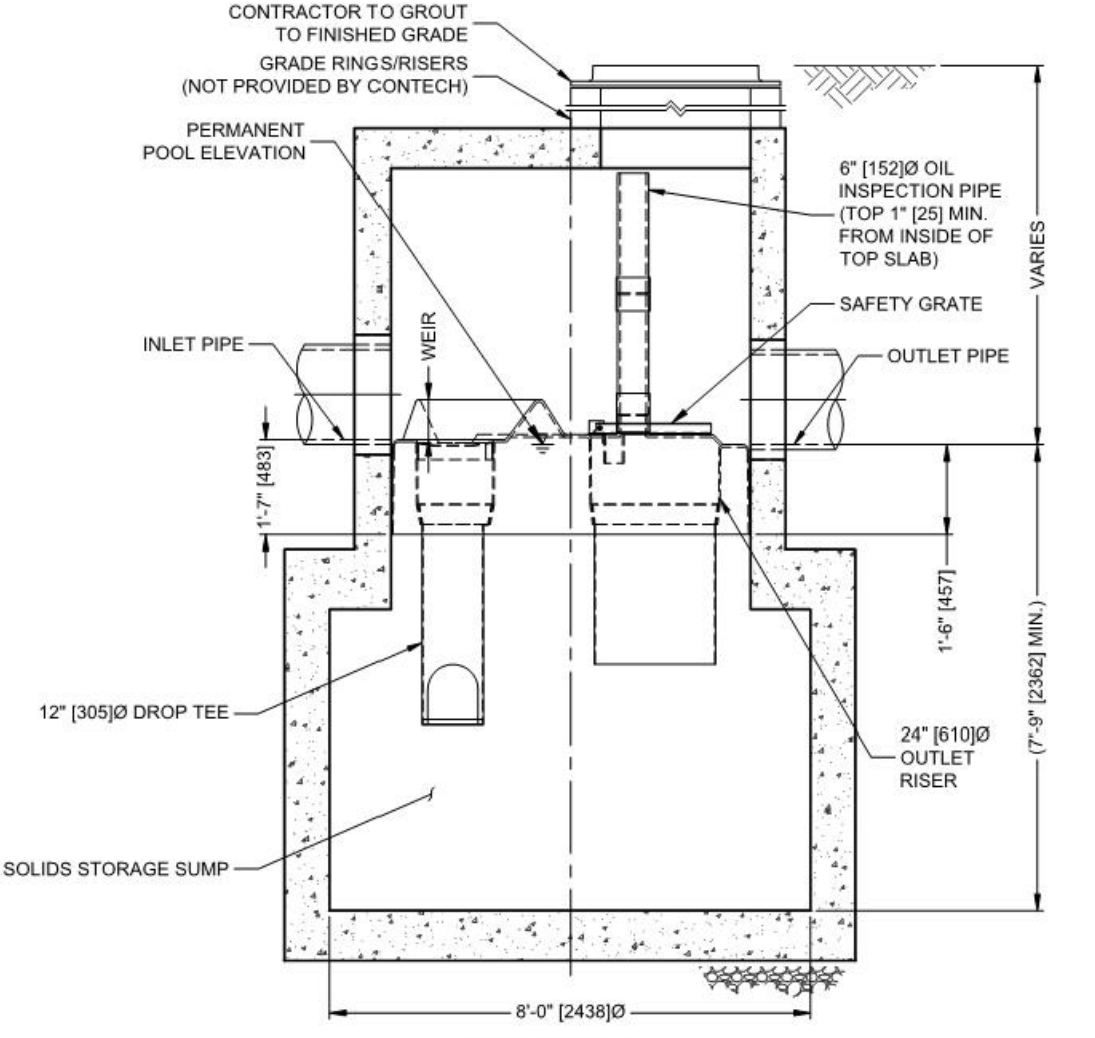


SECTION A-A

Stormceptor®

WATER QUALITY UNIT (900)

N.T.S.



SECTION A-A

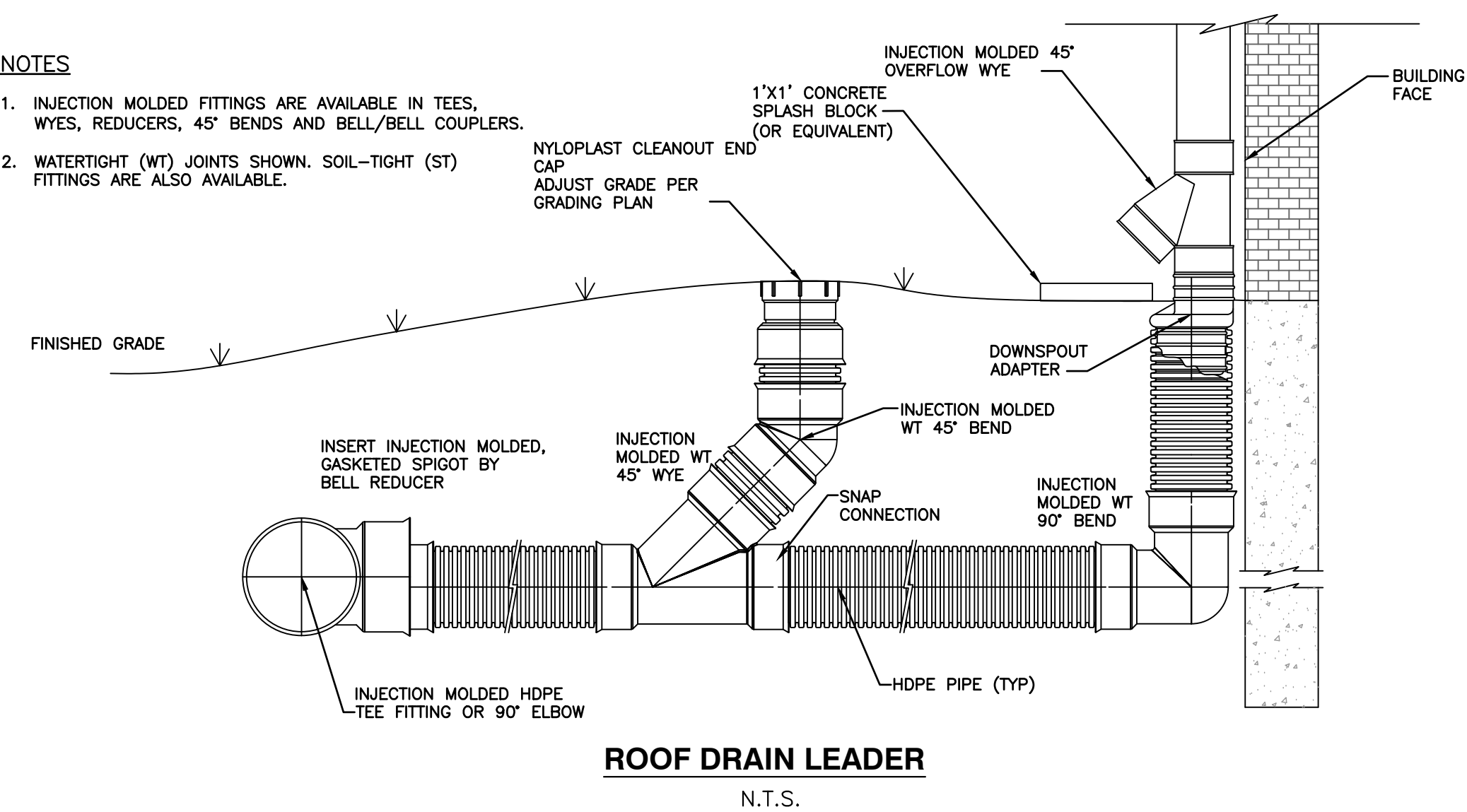
Stormceptor®

WATER QUALITY UNIT (2400)

N.T.S.

NOTES

- INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLERS.
- WATERTIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.



ROOF DRAIN LEADER

N.T.S.

- GENERAL NOTES**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.conteches.com
 - STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 - STORMCEPTOR STRUCTURE SHALL MEET AASHTO HSD20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' (B10), AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M295 AND BE CAST WITH THE CONTECH LOGO.
 - STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
 - ALTERNATE UNITS ARE SHOWN IN MILLIMETERS (mm).
- INSTALLATION NOTES**
- ANY SUB-BASE BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMCEPTOR MANHOLE STRUCTURE.
 - CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW-PIPE INVERTS ARE GROUTED.

NO.	DATE	REVISION RECORD	DESCRIPTION

Civil & Environmental Consultants, Inc.
 31 Bellows Road · Raynham, MA 02767
 Ph: 774.501.2176 · 866.312.2024 · Fax: 774.501.2669
www.cecinc.com

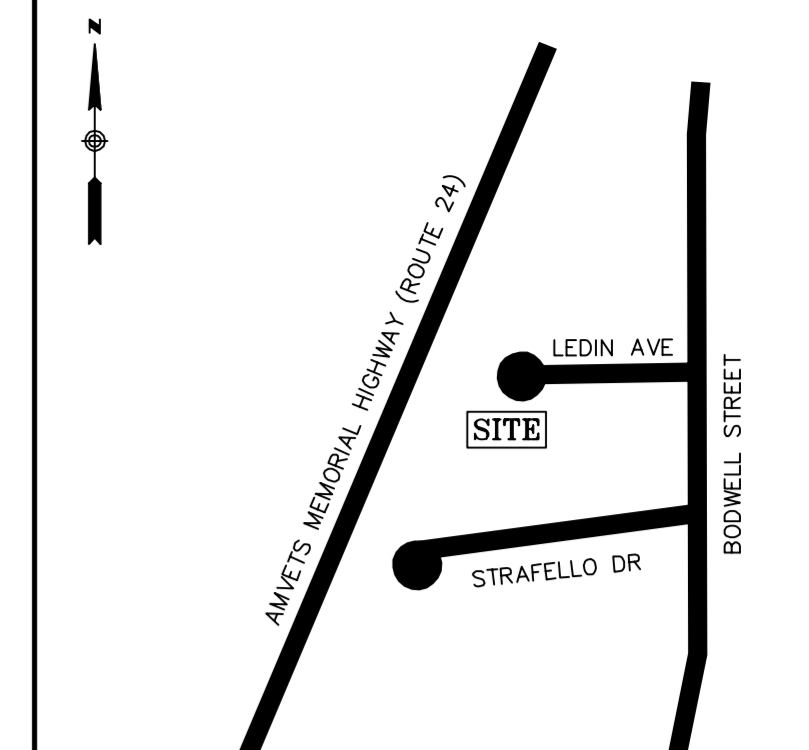
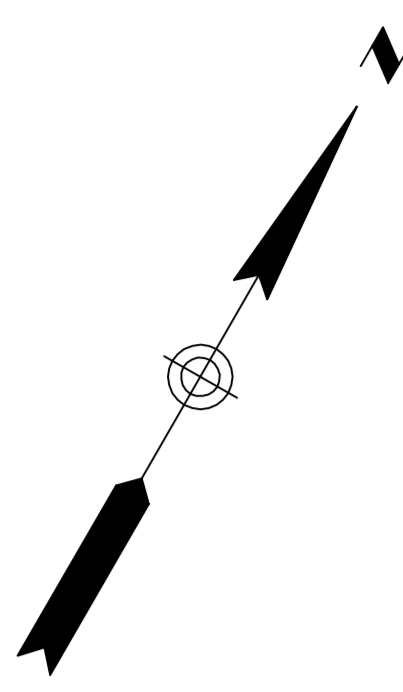
WASTE MANAGEMENT OF MA, INC.
SITE REDEVELOPMENT
 20 LEDIN AVENUE
 AVON, MASSACHUSETTS

SITE DETAILS 3

DATE: APRIL 25, 2021 | DRAWN BY: EIMW
 DWG SCALE: AS SHOWN | CHECKED BY: DRAFT
 PROJECT NO: 311-399 | APPROVED BY: DRAFT

REGISTRATION NO. 41234
 KARLIS SKULTE
 CIVIL
 No. 47703
 REGISTERED PROFESSIONAL ENGINEER

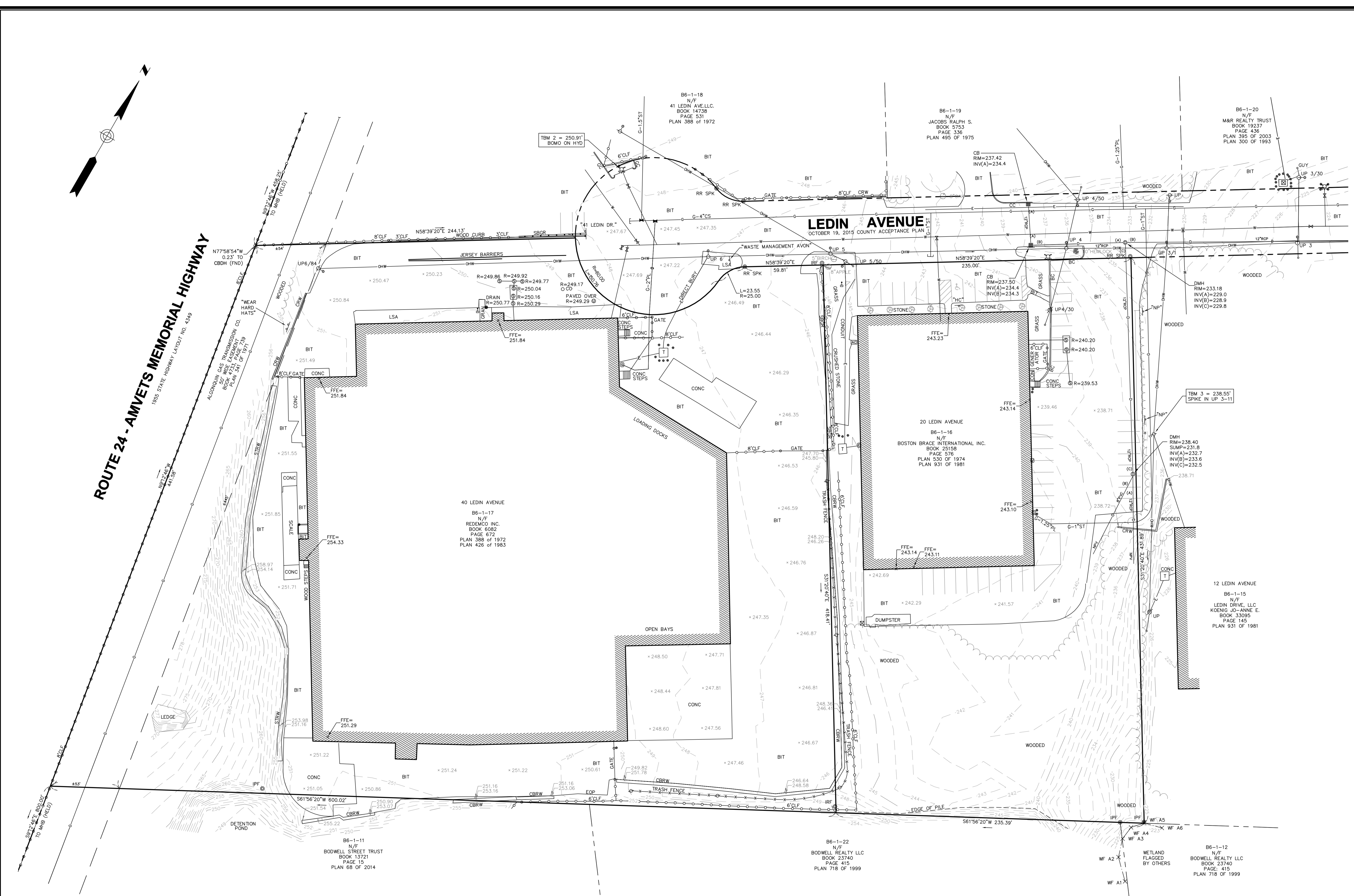
DRAWING NO. **C802**
 SHEET 9 OF 9



LOCUS MAP (N.T.S.)

ROUTE 24 - AMVETS MEMORIAL HIGHWAY
1952 STATE HIGHWAY LAYOUT NO. 4349

LEDIN AVENUE
OCTOBER 19, 2019 COUNTY ACCEPTANCE PLAN

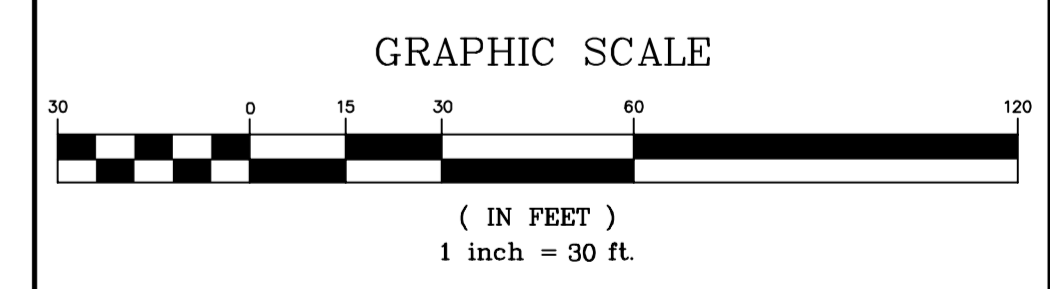


UTILITY STATEMENTS
THE LOCATION OF THE UTILITIES AS SHOWN HEREON HAVE BEEN COMPILED FROM VISIBLE STRUCTURES AND INFORMATION OBTAINED FROM VARIOUS SOURCES. THE ACTUAL LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHALL BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER PRIOR TO ANY CONSTRUCTION. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICES OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.

PLAN REFERENCES
1952 STATE HIGHWAY LAYOUT NO. 4349 OF ROUTE 24, AMVETS MEMORIAL HIGHWAY
COUNTY ACCEPTANCE PLAN OF LEDIN AVENUE IN AVON DATED OCTOBER 19, 2019
THE FOLLOWING PLANS AT NORFOLK COUNTY REGISTRY OF DEEDS
PLAN 341 OF 1971
PLAN 388 OF 1972
PLAN 329 OF 1973
PLAN 698 OF 1975
PLAN 530 OF 1974
PLAN 305 OF 1976
PLAN 448 OF 1976
PLAN 931 OF 1981
PLAN 426 OF 1983
PLAN 548 OF 1999
PLAN 68 OF 2014

NOTES

1. THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP DURING MARCH OF 2019 WITH A SMALL ADDITIONAL AREA SURVEYED IN JULY OF 2019.
2. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NAD83, BASED UPON GPS OBSERVATIONS. FOR PLOTTING PURPOSES WSP APPLIED A NORTH SHIFT OF -2,000.000.00 FT AND AN EAST SHIFT OF -700.00.00 FT.
3. THE VERTICAL DATUM SHOWN HEREON REFERENCES NGVD-29, US SURVEY FEET, MASS DOT DISK 180 2D (242.957). SEE COUNTY ENGINEERS FIELD BOOK 684.
4. THE SURVEYED PROPERTY IS SUBJECT BUT NOT LIMITED TO THE INFORMATION SHOWN HEREON. ALL INFORMATION THAT MAY AFFECT THE QUALITY OF THE TITLE TO BOTH THE SUBJECT AND ADJOINING PARCELS SHOULD BE VERIFIED BY AN ACCURATE AND CURRENT TITLE REPORT. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THE ADJUTERS LOT LINES AND INFORMATION SHOWN HEREON WERE TAKEN FROM THE ASSESSORS OFFICE AND ARE CURRENT AT THE DATE OF THIS PLAN.
5. WETLANDS FLAGGED BY OTHERS AND LOCATED BY WSP ON JULY 25, 2019.

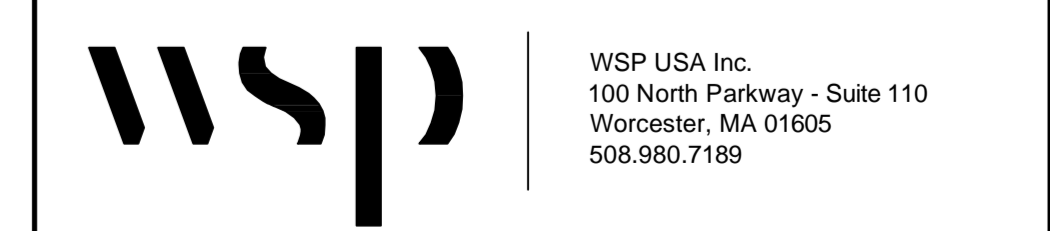


LEGEND

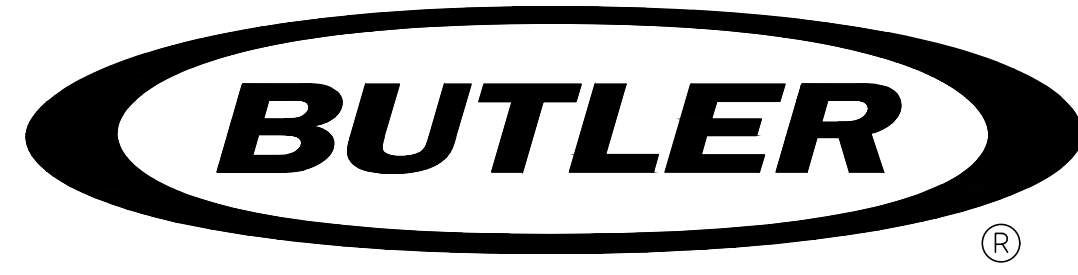
---	ABUTTERS LOT LINE	⊕	CONCRETE BOUND WITH DRILL HOLE	⊕	WATER GATE
---	PROPERTY LINE	⊕	IRON ROD FOUND	⊕	FIRE HYDRANT
---	EASEMENT	⊕	IRON PIPE FOUND	⊕	UTILITY POLE
---	CHAIN LINK FENCE	⊕	RAILROAD SPIKE FOUND	⊕	UTILITY POLE WITH RISER
---	METAL GUARDRAIL	⊕	AIR CONDITIONER	⊕	UTILITY POLE WITH LIGHT
---	SEWER LINE	⊕	AREA DRAIN	⊕	UTILITY POLE WITH LIGHT AND TRANSFORMER
---	DRAIN LINE	⊕	CATCH BASIN	⊕	DECIDUOUS TREE
---	WATER LINE	⊕	WOOD CURB	⊕	CONIFER TREE
---	GAS LINE	⊕	LANDSCAPED AREA	⊕	SHRUB
---	UNDERGROUND ELECTRIC	⊕	FINISHED FLOOR ELEVATION	⊕	SIGN (SINGLE POSTED)
---	OVERHEAD WIRES	⊕	SRW STONE RETAINING WALL	⊕	SIGN (DOUBLE POSTED)
---	TREE LINE	⊕	CRW CONCRETE RETAINING WALL	⊕	POST
---	INTERMEDIATE CONTOURS	⊕	CRWB CONCRETE BLOCK RETAINING WALL	⊕	MAILBOX
---	INDEX CONTOURS	⊕	CMP CORRUGATED METAL PIPE	⊕	LIGHT POLE
---	WETLAND LINE	⊕	RCP REINFORCED CONCRETE PIPE	⊕	BOLLARD
		⊕	CPP CORRUGATED PLASTIC PIPE	⊕	FLAG POLE
		⊕	PVC POLYVINYL CHLORIDE		

REVISION	DATE	DESCRIPTION
	7/25/19	ADDITIONAL TOPOGRAPHY AND WETLAND LOCATIONS

EXISTING CONDITIONS PLAN
20 & 40 LEDIN AVENUE
AVON, MASSACHUSETTS
PREPARED FOR
WASTE MANAGEMENT OF MASSACHUSETTS



Drawn By	RBP	Date	MARCH 29, 2019	Job No.	190177E
Surveyed By	TC/EC	Scale	1" = 30'	Sheet No.	1 OF 1
Checked By	DPP	Book No.	CHA-72		



Butler Manufacturing
a division of BlueScope Buildings North America Inc.

DRAWING INDEX	
DRAWING TITLE	PAGES
COVER SHEET	
CODES AND LOADS	
NOTES	
ANCHOR ROD PLAN	
PRIMARY STRUCTURAL	
SECONDARY STRUCTURAL	
COVERING	
SPECIAL DRAWINGS	
STANDARD ERECTION DETAILS	
PLANOGRAPH DETAILS	

DRAWING RELEASE HISTORY		
TYPE	DATE	DESCRIPTION

GENERAL NOTES

MATERIALS

3 PLATE WELDED SECTIONS
COLD FORMED LIGHT GAGE SHAPES
BRACE RODS
HOT ROLLED MILL SHAPES
HOT ROLLED ANGLES
HOLLOW STRUCTURAL SECTION (HSS)
CLADDING

ASTM DESIGNATION

A529, A572, A1011, A1018
A653, A1011
A572, A510
A36, A529, A572, A588, A992
A529, A572, A588, A992
A500
A653, A792

GRADE 55
GRADE 60
GRADE 50
GRADE 36 OR 50
GRADE 50
GRADE B
GRADE 50 OR GRADE 80

HIGH STRENGTH BOLT TIGHTENING REQUIREMENTS

IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. SEE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS FOR MORE INFORMATION. SEE ERECTION GUIDE FOR BOLT TIGHTENING INSTRUCTIONS. THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E. -SNUG TIGHT OR PRE-TENSION) UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT.

ALL A490 BOLTS SHALL BE "PRE-TENSIONED". A325 BOLTS IN PRIMARY FRAMING AND BRACING CONNECTIONS MAY BE "SNUG-TIGHT" EXCEPT AS FOLLOWS:

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS A CRANE GREATER THAN 5 TON CAPACITY.

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT, OR STRESS REVERSALS ON CONNECTIONS.

PRE-TENSION A325 BOLTS IF LOCATED IN HIGH SEISMIC AREAS. FOR IBC BASED CODES; HIGH SEISMIC IS DESIGN CATEGORY D, E OR F. SEE CODES AND LOADS SECTION BELOW FOR DETAILS.

PRE-TENSION ANY CONNECTION WITH DESIGNATION A325-SC. SLIP CRITICAL (SC) CONNECTIONS MUST BE FREE OF PAINT, OIL OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.

IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS AND FLANGE BRACES.

SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE ALWAYS "SNUG TIGHT", UNLESS INDICATED OTHERWISE IN ERECTION DRAWING DETAILS.

INSPECTION AND TESTING

SPECIAL INSPECTIONS AND TESTING REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ) DURING CONSTRUCTION AND/OR STEEL FABRICATION IS THE RESPONSIBILITY OF THE OWNER OR OWNERS AUTHORIZED AGENT. WHEN REQUIRED, THE OWNER SHALL EMPLOY A QUALITY ASSURANCE AGENCY (QAA) APPROVED BY THE AHJ. THE BUILDER IS RESPONSIBLE TO COORDINATE BETWEEN THE QAA FIRM AND BUTLER MFG. TO ENSURE THE CORRECT EXTENT OF SPECIAL INSPECTIONS AND NDT WELD TESTING MUST BE SPECIFICALLY STIPULATED IN CONTRACT DOCUMENTS OR AGREEMENTS. ALL SPECIAL INSPECTIONS AND TESTING SHALL BE WITNESSED BY LOCAL BUILDING OFFICIALS OR OTHER AUTHORIZED PERSONNEL. (Standard Occupancy Structure). Collateral Gravity: 10.00 psf (Not Including bldg wt) Waste Management - Building Risk/Occupancy Category:II (Standard Occupancy Structure), Collateral Gravity: 7.00 psf (Not Including bldg wt)

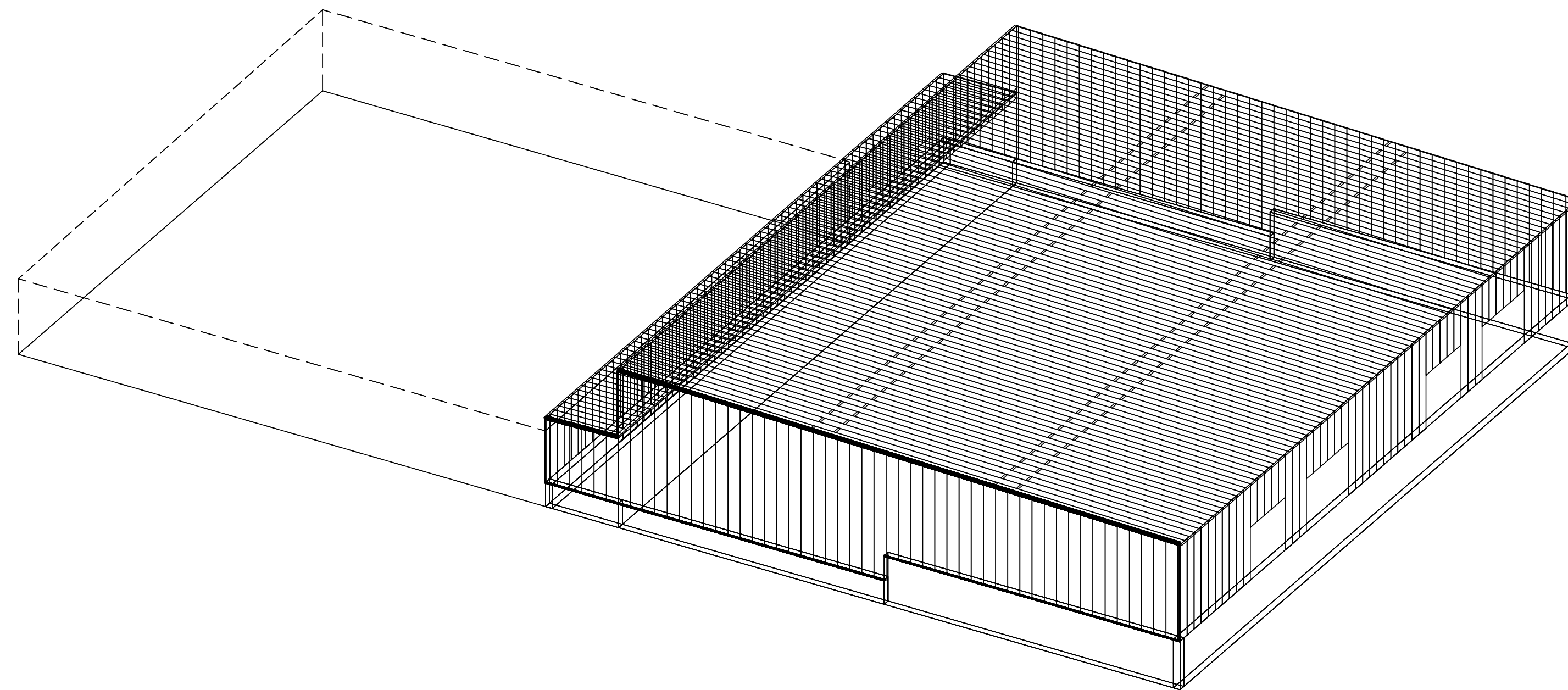
LIVE LOADS AND RAINFALL
Roof Live Load 20.00 psf (Not Reducible)
Rainfall: 0.10 inches per hour
CONCRETE FOUNDATIONS Compressive Strength (Min.) - f'c: 3000 psi

SNOW LOAD
Ground Snow: 35.00 psf, Flat Roof Snow: 24.50 psf, Design Snow (Sloped): 24.50 psf, Specified Min. Roof Snow: 35.00 psf
Snow Exposure Category (Factor): 2 Partially Exposed (1.00)
Snow Importance: 1.000 Thermal Category (Factor): Heated (1.00)

WIND LOAD
The 'Envelope Procedure' is Used
Wind Speed: Vult: 131.00 (Vasd: 101.47) mph, Wind Exposure: C
Basic Wind Pressure: 33.19 psf
Topographic Factor: 1.0000
Wind Enclosure: Enclosed, 0.180
Note: All windows, doors, skylights and other covered openings must be designed for the specified above wind loads

EARTHQUAKE DESIGN DATA
Lateral Force Resisting Systems using Equivalent Force Procedure
Mapped Spectral Response - Ss:19.60 %g, S1:6.50 %g
Seismic Design Category: B (See Bolt Tightening Note Above)
Seismic Snow Load: 0.00 psf
Seismic Importance: 1.000
Soil Profile Type: Stiff soil (D)
Design Spectral Response - Sds: 0.2091, Sd1: 0.1040

Ordinary Steel Moment Frames
Frame Redundancy Factor:1.00
Framing R-Factor: 3.00, Frame Seismic Factor (Cs): 0.0697, Design Base Shear = 0.0697 W
Ordinary Steel Concentric Braced Frames
Brace Redundancy Factor:1.00
Bracing R-Factor: 3.00, Brace Seismic Factor (Cs): 0.0697, Design Base Shear = 0.0697 W



THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER.

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THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVER SHEET

BUILDER: CWB Contractors Inc
CUSTOMER:
LOCATION: Avon, Massachusetts
PROJECT: Waste Management
BUILDER'S PO#:



JOB #:
DATE: 3/30/2021
DRAWN/CHECK: /
PAGE:

Codes and Loads
 WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS. WIND LOADS ARE APPLIED TO OVERALL BUILDING ENVELOPE. COMMON WALLS BETWEEN CONNECTED SHAPES ARE NOT SUBJECT TO EXTERNAL WIND LOADS.

City: Avon County: Norfolk State: Massachusetts Country: United States

Building Code
 Building Code: 2015 International Building Code Structural: 10AISC - ASD Rainfall: I: 0.10 inches per hour
 Building Risk/Occupancy Category: II (Standard Occupancy Structure) Cold Form: 12AISI - ASD f'c: 3000.00 psi Concrete

Dead and Collateral Loads
 Collateral Gravity: 10.00 psf
 Collateral Uplift: 0.00 psf

Material Dead Weight
 Roof Covering + Second. Dead Load: Varies
 Frame Weight (assumed for seismic): 2.50 psf

Wind Load
 Wind Speed: Vult: 131.00 (Vasd: 101.47) mph
 The 'Envelope Procedure' is Used
 Wind Exposure: C - Kz: 0.889
 Parts Wind Exposure Factor: 0.889
 Wind Enclosure: Enclosed
 Topographic Factor: Kzt: 1.0000

Snow Load
 Ground Snow Load: pg: 35.00 psf
 Flat Roof Snow: pf: 24.50 psf
 Design Snow (Sloped): ps: 24.50 psf
 Rain Surcharge: 0.00
 Specified Minimum Roof Snow: 35.00 psf (USR)
 Exposure Factor: 2 Partially Exposed - Ce: 1.00
 Snow Importance: Is: 1.000
 Thermal Factor: Heated - Ct: 1.00
 Ground / Roof Conversion: 0.70
 Obstructed or Not Slippery

Roof Live Load
 Roof Live Load: 20.00 psf Not Reducible

Seismic Load
 Lateral Force Resisting Systems using Equivalent Force Procedure
 Mapped MCE Acceleration: Ss: 19.60 %g
 Mapped MCE Acceleration: S1: 6.50 %g
 Site Class: Stiff soil (D)
 Seismic Importance: Ie: 1.000
 Design Acceleration Parameter: Sds: 0.2091
 Design Acceleration Parameter: Sd1: 0.1040
 Seismic Design Category: B
 Seismic Snow Load: 0.00 psf
 % Snow Used in Seismic: 0.00
 Diaphragm Condition: Flexible
 Fundamental Period Height Used: 19/3/14

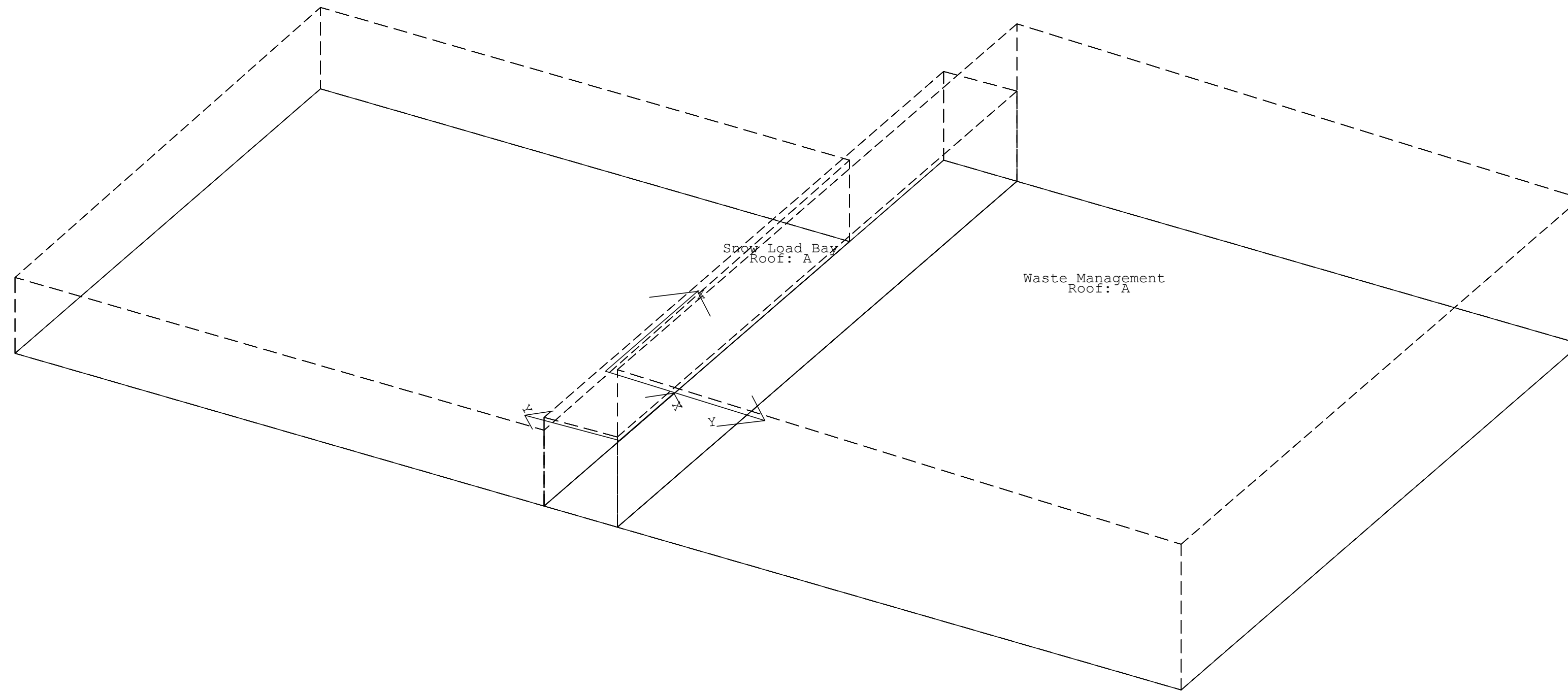
Transverse Direction Parameters
 System NOT detailed for Seismic
 Redundancy Factor: Rho: 1.00
 Fundamental Period: Ta: 0.2992
 R-Factor: 3.00
 Overstrength Factor: Omega: 2.50
 Deflection Amplification Factor: Cd: 3.00
 Base Shear: V: 0.0697 x W

Longitudinal Direction Parameters
 System NOT detailed for Seismic
 Redundancy Factor: Rho: 1.00
 Fundamental Period: Ta: 0.1843
 R-Factor: 3.00
 Overstrength Factor: Omega: 2.50
 Deflection Amplification Factor: Cd: 3.00
 Base Shear: V: 0.0697 x W

Snow Buildup
 Shape Surface Description
 Snow Load Bay Roof: A Snow Drift (from Wall 2, Shape Waste Management) : Roof: A

X Location	Y Location	Magnitude
170.0 ft	0.0 ft	79.1 psf
0.0 ft	0.0 ft	79.1 psf
0.0 ft	17.0 ft	0.0 psf
170.0 ft	17.0 ft	0.0 psf

1. The Snow Buildup loading shown is in addition to the flat or sloped roof snow.
2. The X and Y Location dimensions are from the point of origin of each surface.




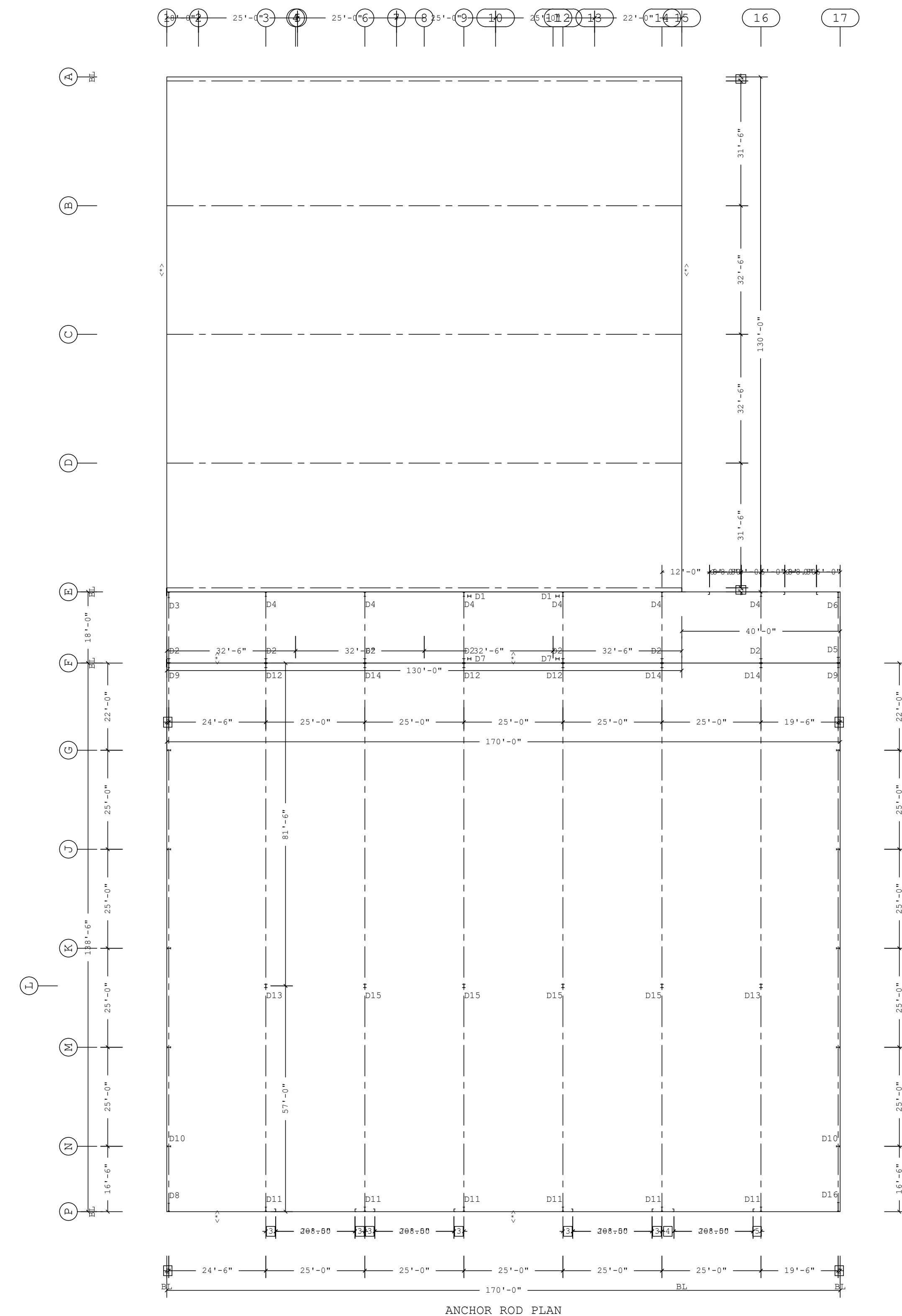
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D	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		
	REV:	DATE:	BY:
DRAWING SCALE: NTS			

CODES AND LOADS		 Butler Manufacturing VPC VERSION: ADVNXT 4.3	JOB #:
BUILDER:	CWB Contractors Inc		DATE:
CUSTOMER:			3/30/2021
LOCATION:	Avon, Massachusetts		DRAWN/CHECK:
PROJECT:	Waste Management		1
BUILDER'S PO#:		PAGE:	



- 5 2'-0"
- 4 3'-0"
- 3 2'-6"
- 2 6"
- 1 1'-0"

Dimension Key


<-> THE BUILDING IS DESIGNED WITH BRACING DIAGONALS IN THE DESIGNATED BAYS. COLUMN BASE REACTIONS, BASE PLATES AND ANCHOR RODS ARE AFFECTED BY THIS BRACING AND DIAGONALS MAY NOT BE RELOCATED WITHOUT CONSULTING THE BUILDING SUPPLIERS ENGINEER.

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D	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		
	REV:	DATE:	BY:
DRAWING SCALE: NTS			

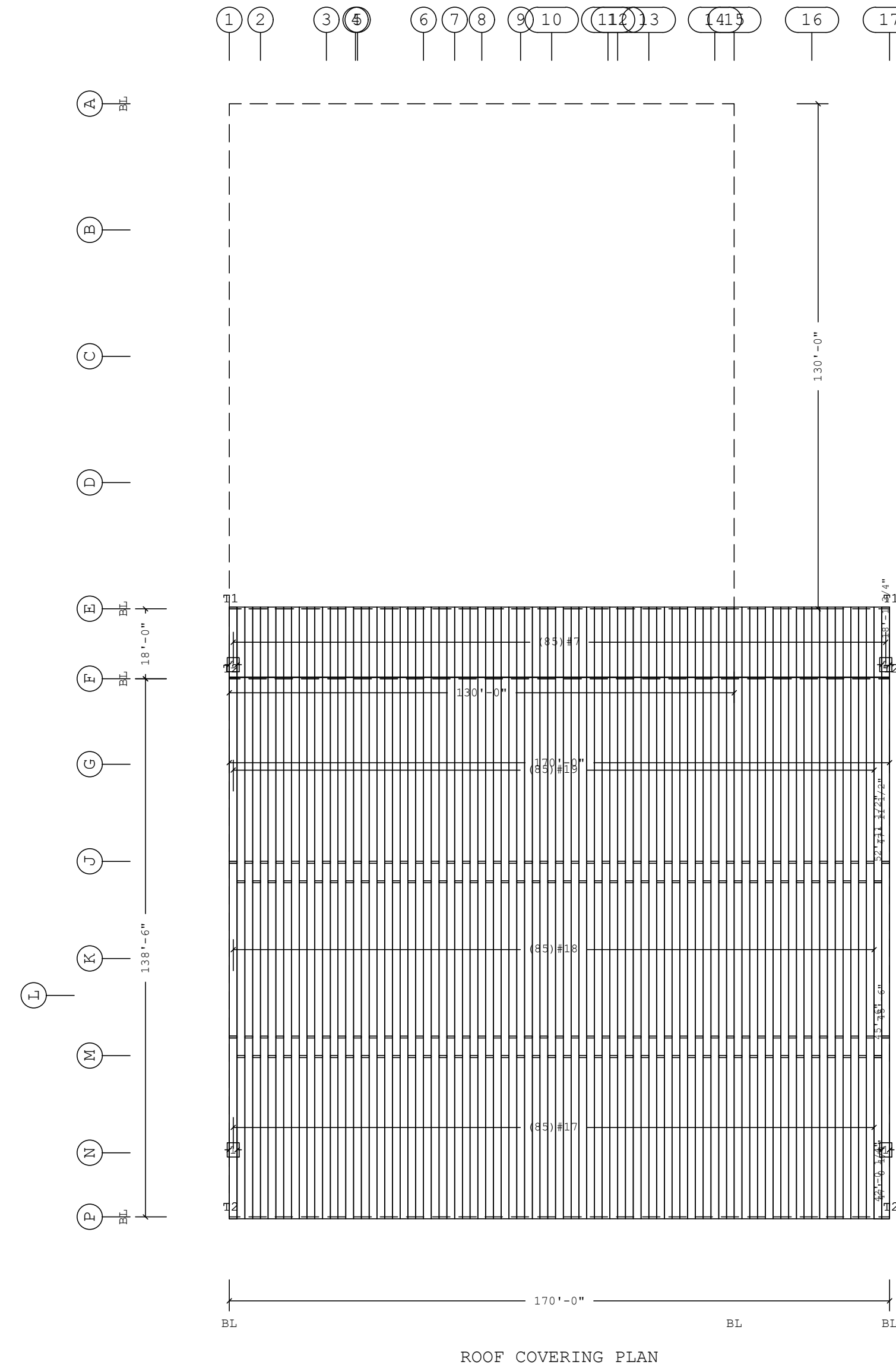
ANCHOR ROD PLAN		 Butler Manufacturing <small>VPC VERSION: ADVNXT 4.3</small>	JOB #:
BUILDER:	CWB Contractors Inc		DATE:
CUSTOMER:			3/30/2021
LOCATION:	Avon, Massachusetts		DRAWN/CHECK:
PROJECT:	Waste Management	PAGE:	1
BUILDER'S PO#:			

Covering Schedule									
Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color
#7	85	18'-1 3/4"			MR24	24	40	Z	AZ
#17	43	47'-0 1/4"	42	42'-0 1/4"	MR24	24	13	Z	AZ
#18	43	45'-6"	42	45'-6"	MR24	24	10	Z	AZ
#19	43	47'-11 1/2"	42	52'-11 1/2"	MR24	24	11	Z	AZ

Oper. Code:40=SQ,SQ
Oper. Code:13=SQ,NT
Oper. Code:10=SQ,NT
Oper. Code:11=SQ,SQ
Finish:Z=AlZn
Color:AZ=Plain AlZn

Trim Schedule	
Id	Parts
T1	0630043
T2	0630043

Color
Match Wall Color
Match Wall Color



ROOF COVERING PLAN

Planograph Schedule	
Id	Details
T1	P-080221, P-081236, P-103223, P-104542, P-104714
T2	P-080221, P-104549

Dimension Key

Shape Name = existing building , Shape = Snow Load Bay, Shape = Waste Management

- PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
- STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
- DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
- SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

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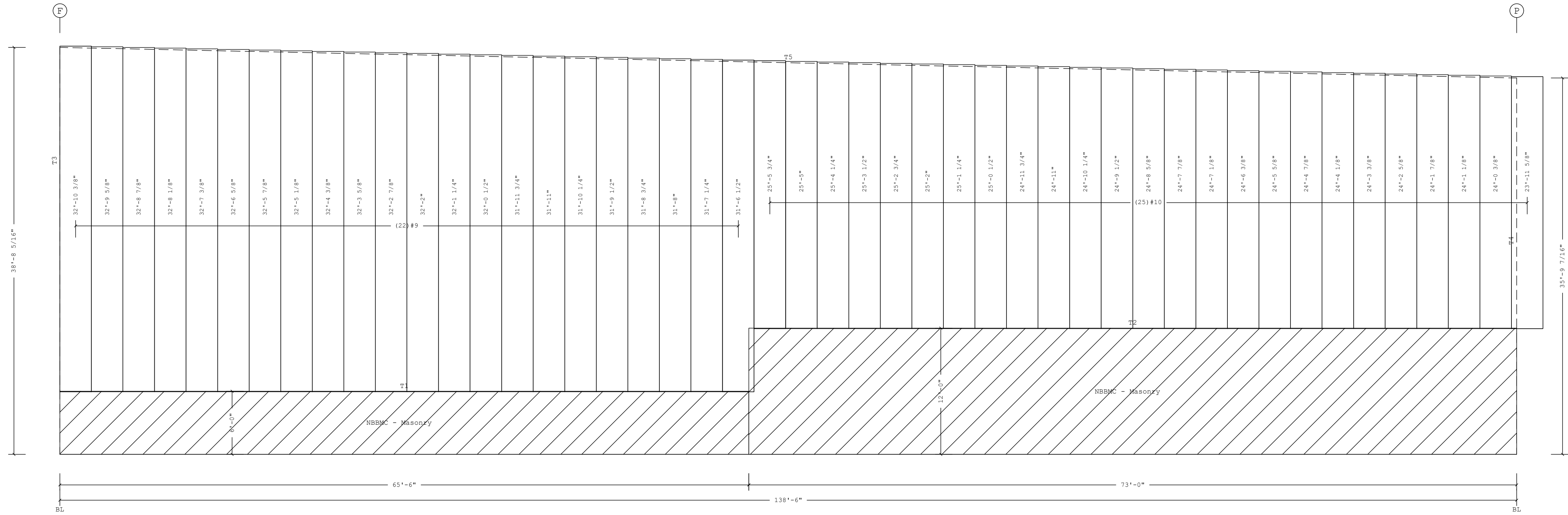
D BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				ROOF COVERING PLAN	
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	CWB Contractors Inc
				CUSTOMER:	
				LOCATION:	Avon, Massachusetts
				PROJECT:	Waste Management
				BUILDER'S PO#:	
DRAWING SCALE:			NTS	JOB #:	
				DATE:	
				3/30/2021	
				DRAWN/CHECK:	
				/	
				PAGE:	
				1	
				BUTLER Butler Manufacturing VPC VERSION: ADVNXT 4.3	

Covering Schedule									
Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#9	22	SHP	32'-10 3/8"	26	1	K	TD	-3/4"	Left to Right
#10	25	SHP	25'-5 3/4"	26	1	K	TD	-3/4"	Left to Right

Oper. Code:1=SQ,SQ
Finish:K=Butler-Cote
Color:TD=Standard Color

Trim Schedule		
Id	Parts	
T1	(2.6)BA225, (5.5)BT12A	
T2	(2.9)BA225, (6.1)BT12A	
T3	(2.5)0620163, (2)SHOCT12	
T4	(2)0570751, (2)0620163, (2)SHOCT12	
T5	(6.8)MRGT20R, (11.5)SHCL12, (13.6)WA10A	

Color	Details
Match Wall Color	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB084, WCB085, WCB086
Match Wall Color	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB084, WCB085, WCB086
Match Wall Color	NV118, NV119, NV133, NV134
Match Wall Color	NV118, NV119, NV133, NV134
Standard Color	KV441, KV442, FV167



COVERING ELEVATION AT 1

Fastener Schedule	
Part	Description
0097364STD	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule	
Id	Details
T1	P-081180, P-081505
T2	P-081180, P-081505
T3	P-081180, P-081185
T4	P-081180, P-081185
T5	P-081167, P-081183, P-GAI

Shape Name = Waste Management , Wall = 1

1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
 2. STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
 3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
 4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

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BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			
REV	DATE	BY	DESCRIPTION
DRAWING SCALE: NTS			

Waste Management -Covering at 1	
BUILDER: CWB Contractors Inc	JOB #:
CUSTOMER:	DATE: 3/30/2021
LOCATION: Avon, Massachusetts	DRAWN/CHECK: /
PROJECT: Waste Management	PAGE:
BUILDER'S PO#:	

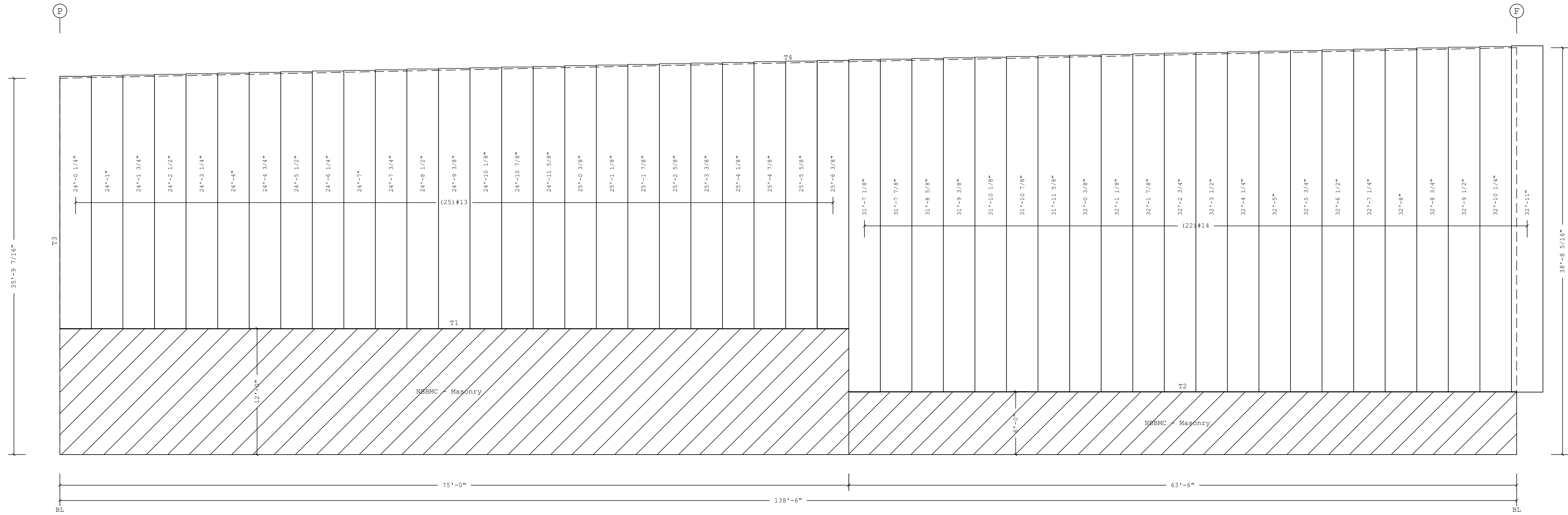


Covering Schedule							
Id	Qty	Type	Start Length	Gage	OP	Fin.	Color
#13	25	SHF	24'-0 1/4"	26	1	K	TD
#14	22	SHF	31'-7 1/8"	26	1	K	TD

Oper. Code:1=SQ,SQ
Finish:K=Butler-Cote
Color:TD=Standard Color

Trim Schedule	
Id	Parts
T1	(3)BA225, (6.2)BT12A
T2	(2.5)BA225, (5.3)BT12A
T3	(4)0620163, (2)SHOCT12
T4	(6.8)MRGT20L, (11.5)SHCL12, (13.6)WA10A

Color		Details	
Match Wall Color	Standard Color	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB084, WCB085, WCB086	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB084, WCB085, WCB086
Match Wall Color	Standard Color	NV118, NV119, NV133, NV134	KV441, KV442, PV167



COVERING ELEVATION AT 17

Fastener Schedule	
Part	Description
0097364STD	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule	
Id	Details
T1	P-081160, P-081505
T2	P-081160, P-081505
T3	P-081160, P-081185
T4	P-081167, P-081183, P-GAI

Shape Name = Waste Management , Wall = 3

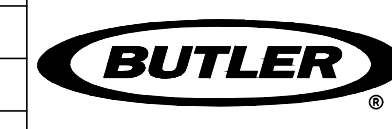
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3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
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D	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			Waste Management -Covering at 17	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: CWB Contractors Inc
					CUSTOMER:
					LOCATION: Avon, Massachusetts
				PROJECT: Waste Management	BUILDER'S PO#:
DRAWING SCALE: NTS					



Butler Manufacturing
VPC VERSION: ADVNXT 4.3

JOB #:

DATE: 3/30/2021

DRAWN/CHECK: /

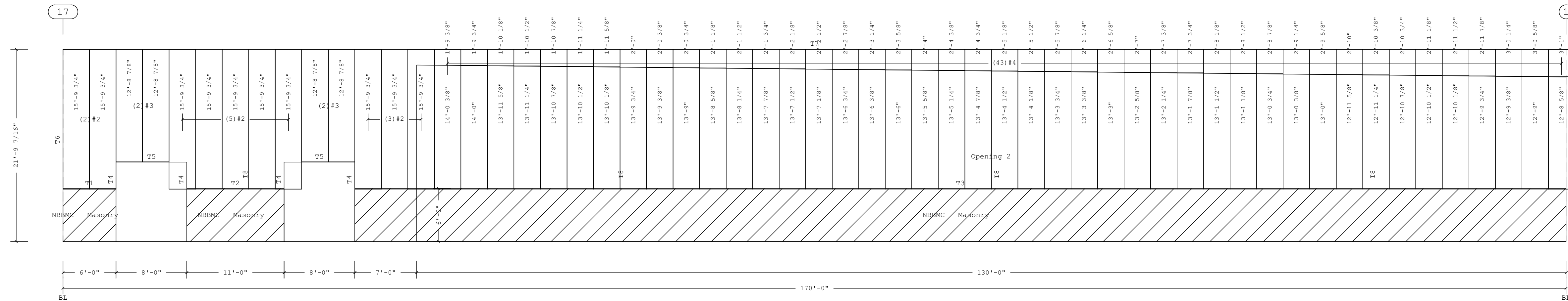
PAGE:

Covering Schedule									
Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#2	10	SHP	15'-9 3/4"	26	1	K	TD		Left to Right
#3	4	SHP	12'-8 7/8"	26	2	K	TD		Left to Right
#4	43	SHP	1'-9 3/8"	26	2	K	TD	-3/8"	Left to Right

Oper. Code:1=SQ,SQ
 Oper. Code:2=SQ,SQ
 Finish:K=Butler-Cote
 Color:TD=Standard Color

Trim Schedule	
Id	Parts
T1	(0.2)BA225, (0.5)BT12A
T2	(0.4)BA225, (0.9)BT12A
T3	(5.5)BA225, (11.4)BT12A
T4	(0.2)DSF12C
T5	DGS12
T6	(2.5)0620163, (2)SHOCT12
T7	(15)CLE12D, (17)EA1021, (7)GTR25, (15)SHCL12
T8	0008738, (2)4CE45, 4CE75, (2.5)CP410

Color	Details
Match Wall Color	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB084, WCB085, WCB086
Match Wall Color	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB084, WCB085, WCB086
Match Wall Color	ENB006, GV386, GV442, NV115, NV120, NV128, NV130, NV135, NV143, NV664, WCB082, WCB083, WCB084, WCB085, WCB086
Match Wall Color	NV568, NV569, WCB024, WCB025
Match Wall Color	NV125, NV140, NV566
Match Wall Color	NV118, NV119, NV133, NV134
Standard Color	MV395, NV110, NV116, NV131
Match Wall Color	KV846



Fastener Schedule	
Part	Description
0097364STD	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule	
Id	Details
T1	P-081180, P-081505
T2	P-081180, P-081505
T3	P-081180, P-081505
T4	P-081201, P-081202, P-081203
T5	P-081203
T6	P-081180, P-081185
T7	P-080221, P-080225, P-103223, P-103315, P-104714
T8	P-105224, P-105225, P-105228

Shape Name = Snow Load Bay, Wall = 2


1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
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D	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			Snow Load Bay-Covering at E	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: CWB Contractors Inc
					CUSTOMER:
					LOCATION: Avon, Massachusetts
					PROJECT: Waste Management
					BUILDER'S PO#:
DRAWING SCALE: NTS					



Butler Manufacturing
VPC VERSION: ADVNXT 4.3

JOB #:

DATE: 3/30/2021

DRAWING CHECK: /

PAGE:

