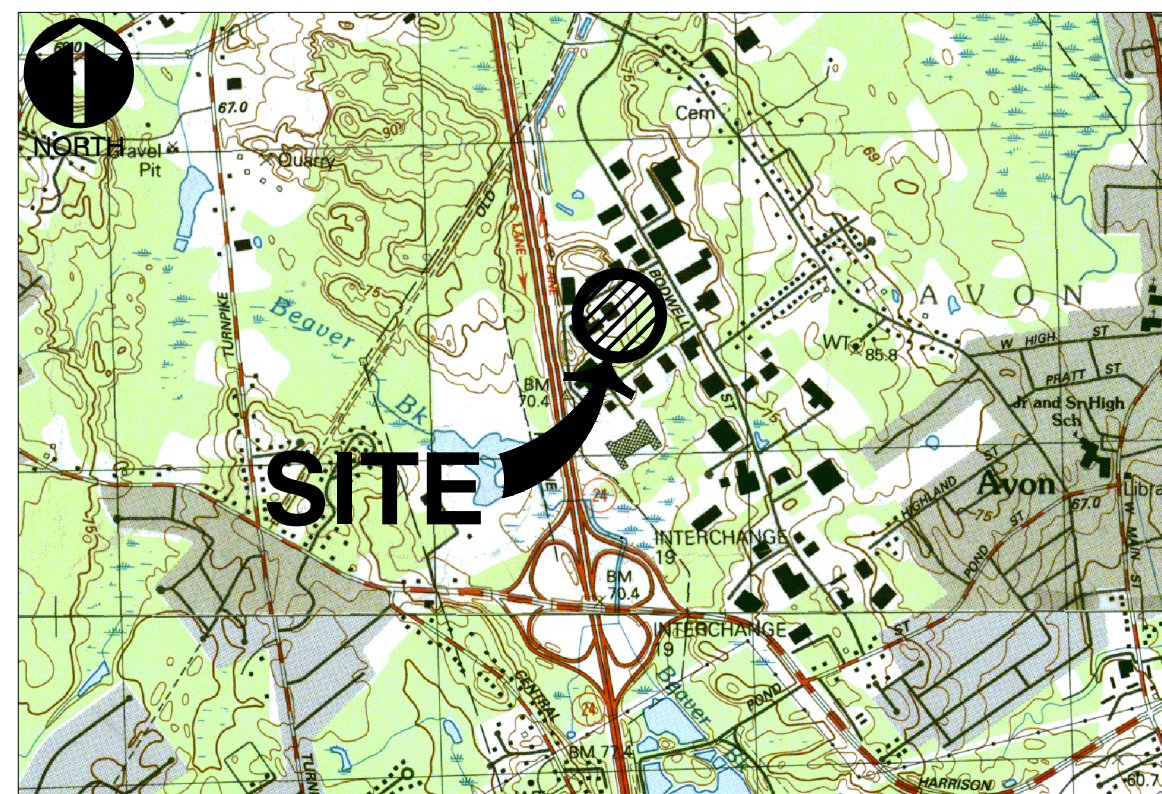


# WASTE MANAGEMENT RECYCLING FACILITY BUILDING EXPANSION

20 LEDIN AVENUE, AVON, MA  
NORFOLK COUNTY

LOCAL PERMITTING  
APRIL 23, 2021



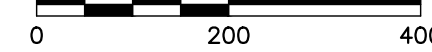
**U.S.G.S MAP**  
U.S.G.S 7.5 MIN. TOPOGRAPHIC MAP,  
AVON, MASSACHUSETTS, QUADRANGLE,  
SCALE: 1"=2000'  
SCALE IN FEET  
0 2,000 4,000



**SITE MAP**

SCALE: 1"=200'

SCALE IN FEET



**REFERENCE**

1. ORTHOGRAPHIC AERIAL IMAGERY, MAPS AND PARCELS ARE BASED ON GIS DATA PROVIDED BY THE BUREAU OF GEOGRAPHIC INFORMATIONS (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF TECHNOLOGY AND SECURITY SYSTEMS. ACCESSED JULY 2019.

DRAWING INDEX			
SHEET NUMBER	DRAWING NUMBER	SHEET TITLE	LATEST ISSUE
<b>CIVIL ENGINEERING</b>			
1	C000	TITLE SHEET	8/5/2021
2	C001	GENERAL NOTES	4/23/2021
3	C100	EXISTING CONDITIONS PLAN	8/5/2021
4	C101	DEMOLITION & EROSION CONTROL PLAN	8/5/2021
5	C200	LAYOUT & MATERIALS PLAN	8/5/2021
6	C300	GRADING AND DRAINAGE PLAN	8/5/2021
7	C500	UTILITY PLAN	8/5/2021
8	C600	LIGHTING PLAN	8/5/2021
9	C800	SITE DETAILS 1	8/5/2021
10	C801	SITE DETAILS 2	8/5/2021
11	C802	SITE DETAILS 3	8/5/2021
<b>ARCHITECTURE / BUILDING DESIGN</b>			
1	A100	ARCHITECTURAL EXTERIOR ELEVATIONS	8/2/2021
2	A101	ARCHITECTURAL EXTERIOR ELEVATIONS	8/2/2021
3	-	COVER SHEET	4/23/2021
4	-	CODES AND LOADS	4/23/2021
5	-	ANCHOR ROD PLAN	4/23/2021
6	-	ROOF COVERING PLAN	4/23/2021
7	-	COVERING AT 1	4/23/2021
8	-	COVERING AT 17	4/23/2021
9	-	COVERING AT E	4/23/2021
10	-	COVERING AT P	4/23/2021

**OWNER/TEAM INFORMATION**

**CIVIL ENGINEER**

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
31 BELLOWS ROAD  
RAYNHAM, MA 02767  
PH: (774) 501-2176  
CONTACTS: KARLIS SKULTE, P.E.

**APPLICANT**

WASTE MANAGEMENT OF MASSACHUSETTS, INC.  
26 PATRIOT PLACE  
FOXBORO, MA 02035  
PH: (508) 549-8057  
CONTACTS: PETER RICHER, P.E.

**BUILDING DESIGNER**

BUTLER MANUFACTURING  
1540 GENESSEE STREET  
KANSAS CITY, MO 64102

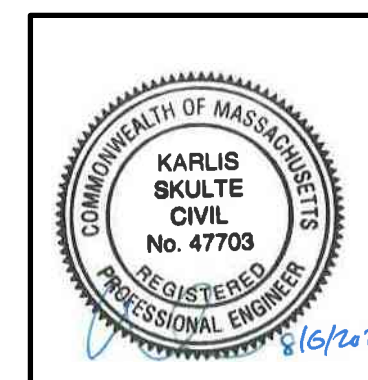
NO	DATE	DESCRIPTION
1	4/23/2021	PLANNING BOARD SUBMISSION
2	8/5/2021	RESPONSE TO PEER REVIEW COMMENTS

**Civil & Environmental Consultants, Inc.**  
31 BelloWS Road - Raynham, MA 02767  
Ph: 774.501.2176 · 866.312.2024 · Fax: 774.501.2669  
www.ceclinc.com

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

**TITLE SHEET**

DATE: AUGUST 5, 2021 | DRAWN BY: DWP  
DWG SCALE: AS SHOWN | CHECKED BY: KPS  
PROJECT NO: 311-999  
APPROVED BY: KPS



DRAWING NO.: **C000**  
SHEET 1 OF 11

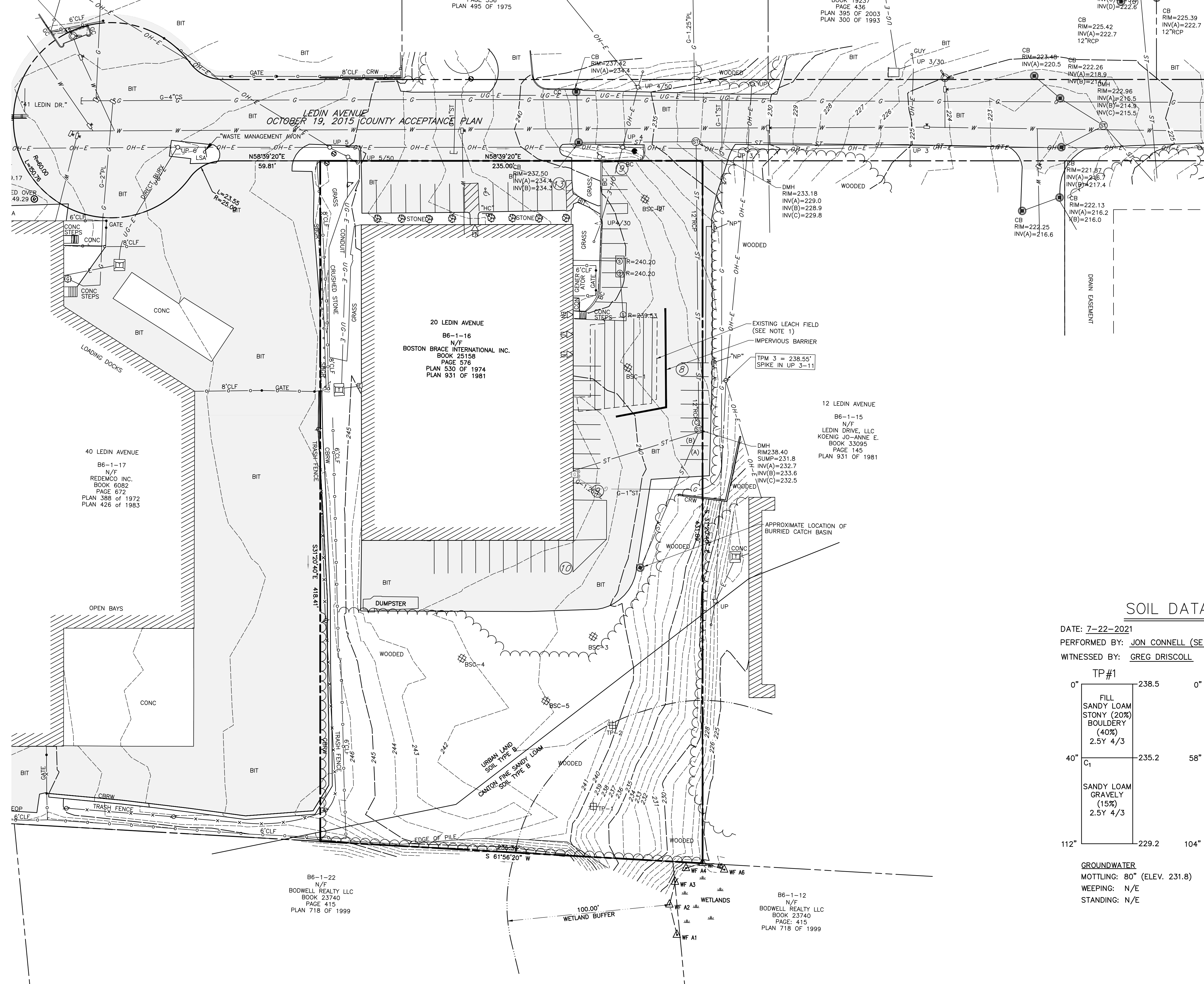
Dig Safe Systems, Inc.  
1-888-DIG-SAFE  
(1-888-344-7233)

P:\1710-001\171-399-1-2020\Draws\1015-1015-20-0000-Cover.dwg (2021) LS(8/6/2021 - 8/6/2021 3:51 PM)





NORTH



**GENERAL NOTES**

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- WETLAND FLAGS WF-A1 THROUGH WF-A6 DELINEATED BY LUCAS ENVIRONMENTAL, LLC IN JULY 2019.
- TEST PIT BSC-1 - BSC-5 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.
- PERMISSION SHALL BE OBTAINED FROM ADJACENT PROPERTY OWNERS PRIOR TO PERFORMING ANY WORK ON ADJACENT PROPERTIES.

**LEGEND**

- PROPERTY BOUNDARY
- 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
- X EXISTING BUILDING
- TP-1 EXISTING FUSS & O'NEIL TEST PIT LOCATION
- BSC-1 EXISTING BSC GROUP TEST PIT LOCATION
- LINEAR FEATURE TO BE REMOVED
- EXISTING TREE LINE
- 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 UTILITY POLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING UTILITY CENTERLINE
- EXISTING TREE
- EXISTING ENTRANCE
- EXISTING TRANSFORMER
- LIMIT OF DISTURBANCE
- EXISTING LEACHING FIELD
- FS --- PROPOSED FILTER SOCK

NO	DATE	DESCRIPTION
1	4/23/2021	PLANNING BOARD SUBMISSION
2	8/3/2021	RESPONSE TO PEER REVIEW COMMENTS

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 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**

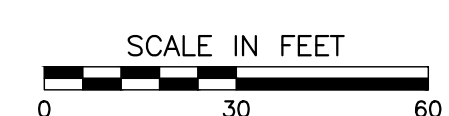
EXISTING CONDITIONS	
DATE: AUGUST 5, 2021	DRAWN BY: DWP
DWG SCALE: 1"=30'	CHECKED BY: KPS
PROJECT NO: 311-989	APPROVED BY: KPS

**SOIL DATA**

DATE: 7-22-2021  
 PERFORMED BY: JON CONNELL (SE #430)  
 WITNESSED BY: GREG DRISCOLL

TP #1		TP #2	
0"	238.5	0"	240.5
40"	235.2	58"	236.2
112"	229.2	104"	232.3

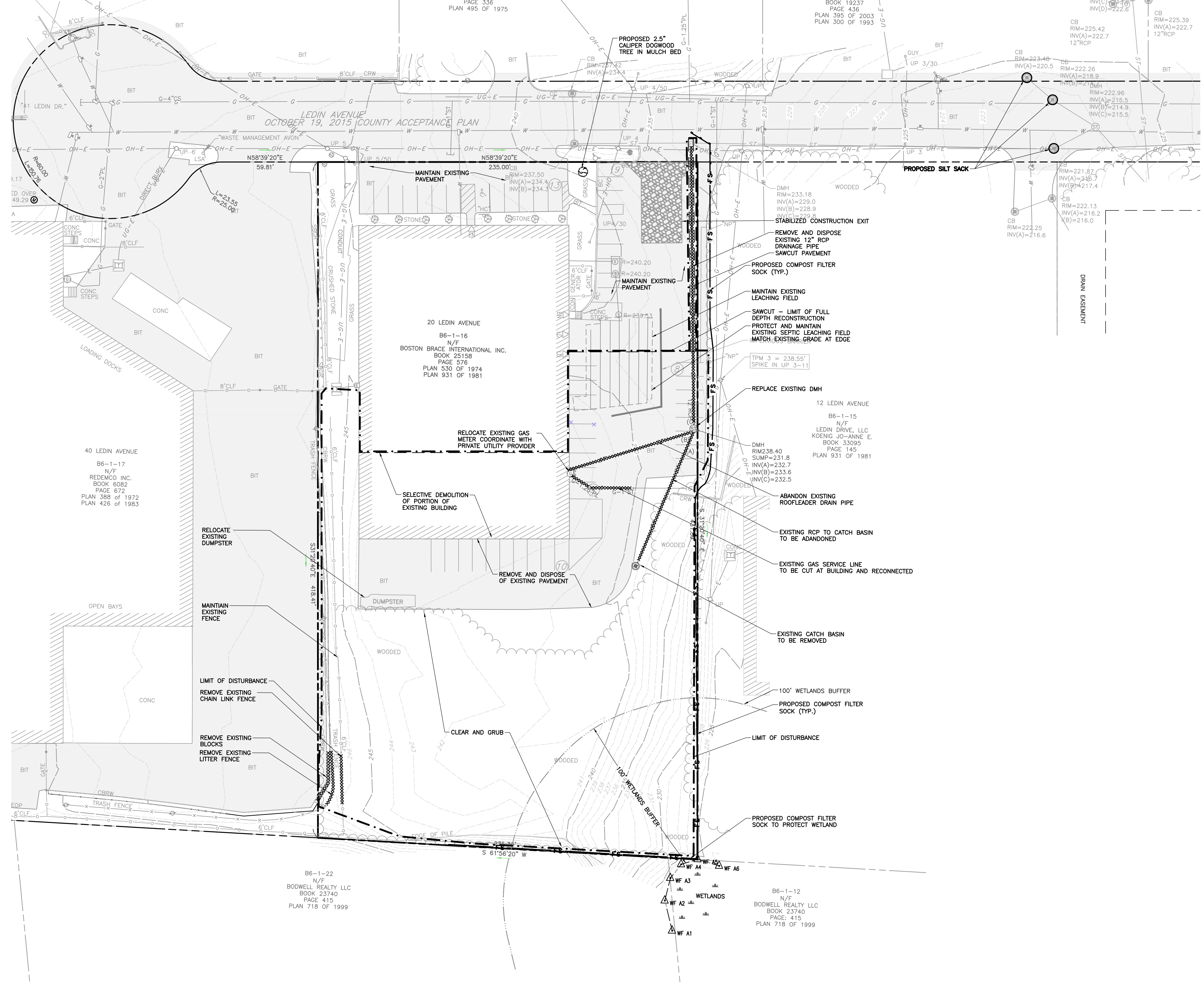
**GROUNDWATER**  
 MOTTLING: 80" (ELEV. 231.8) MOTTLING: 84" (ELEV. 233.5)  
 WEEPING: N/E WEEPING: N/E  
 STANDING: N/E STANDING: N/E



A:\170-2001\171-989\1-0002\Draw\171-989-C01-C100-Existing Conditions.dwg (C100) LS(8/6/2021 - 8:46:00 AM) - LP: 8/6/2021 3:41 PM



NORTH



**GENERAL NOTES**

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**LEGEND**

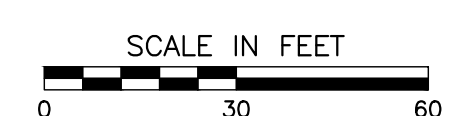
- PROPERTY BOUNDARY
- CB CATCH BASIN
- DCB DOUBLE CATCH BASIN
- WQU WATER QUALITY UNIT
- OCS OUTLET CONTROL STRUCTURE
- 2.30- EXISTING MAJOR CONTOURS
- 2.31- EXISTING MINOR CONTOURS
- (2.34.50) EXISTING GRADE
- X EXISTING BUILDING
- TP-1 EXISTING FUSS & O'NEILL TEST PIT LOCATION
- BSC-1 EXISTING BSC GROUP TEST PIT LOCATION
- LINEAR FEATURE TO BE REMOVED
- EXISTING TREE LINE
- 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 UTILITY POLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING UTILITY CENTERLINE
- EXISTING TREE
- EXISTING ENTRANCE
- EXISTING TRANSFORMER
- LIMIT OF DISTURBANCE
- EXISTING LEACHING FIELD
- FS PROPOSED FILTER SOCK

NO.	DATE	DESCRIPTION
1	4/23/2021	PLANNING BOARD SUBMISSION
2	8/3/2021	RESPONSE TO PEER REVIEW COMMENTS

**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**

DEMOLITION & EROSION CONTROL PLAN	
DATE:	AUGUST 5, 2021
DWG SCALE:	1"=30'
PROJECT NO.:	311-989
APPROVED BY:	KPS



A:\10-2021\171-3981-002\DWG\171-3981-001-C101-Demolition.dwg (C101) 5/16/2021 1:43 PM  
 LP: 8/9/2021 1:43 PM





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

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

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- PERMISSION SHALL BE OBTAINED FROM ADJACENT PROPERTY OWNERS PRIOR TO PERFORMING ANY WORK ON ADJACENT PROPERTIES.
- DURING A 25-YEAR STORM EVENT THE POST DEVELOPMENT RUNOFF RATES WILL REMAIN LOWER THAN IN EXISTING CONDITIONS. IN PROPOSED CONDITIONS, ALL STORMWATER RUNOFF WILL BE COLLECTED AND ROUTED THROUGH THE INFILTRATION CHAMBERS OR BY-PASS DIRECTLY TO THE MUNICIPAL SYSTEM IN LEDIN AVE. THE RUNOFF RATE IN PROPOSED CONDITIONS WILL BE 16.26 CFS VERSUS IN EXISTING CONDITIONS OF 16.28 CFS.

**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
- 230 — EXISTING MAJOR CONTOURS
- 231 — EXISTING MINOR CONTOURS
- — EXISTING GRADE
- — EXISTING BUILDING
- TP-1 — EXISTING FUSS & O'NEIL 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
1	4/28/2021	PLANNING BOARD SUBMISSION
2	8/16/2021	RESPONSE TO PEER REVIEW COMMENTS

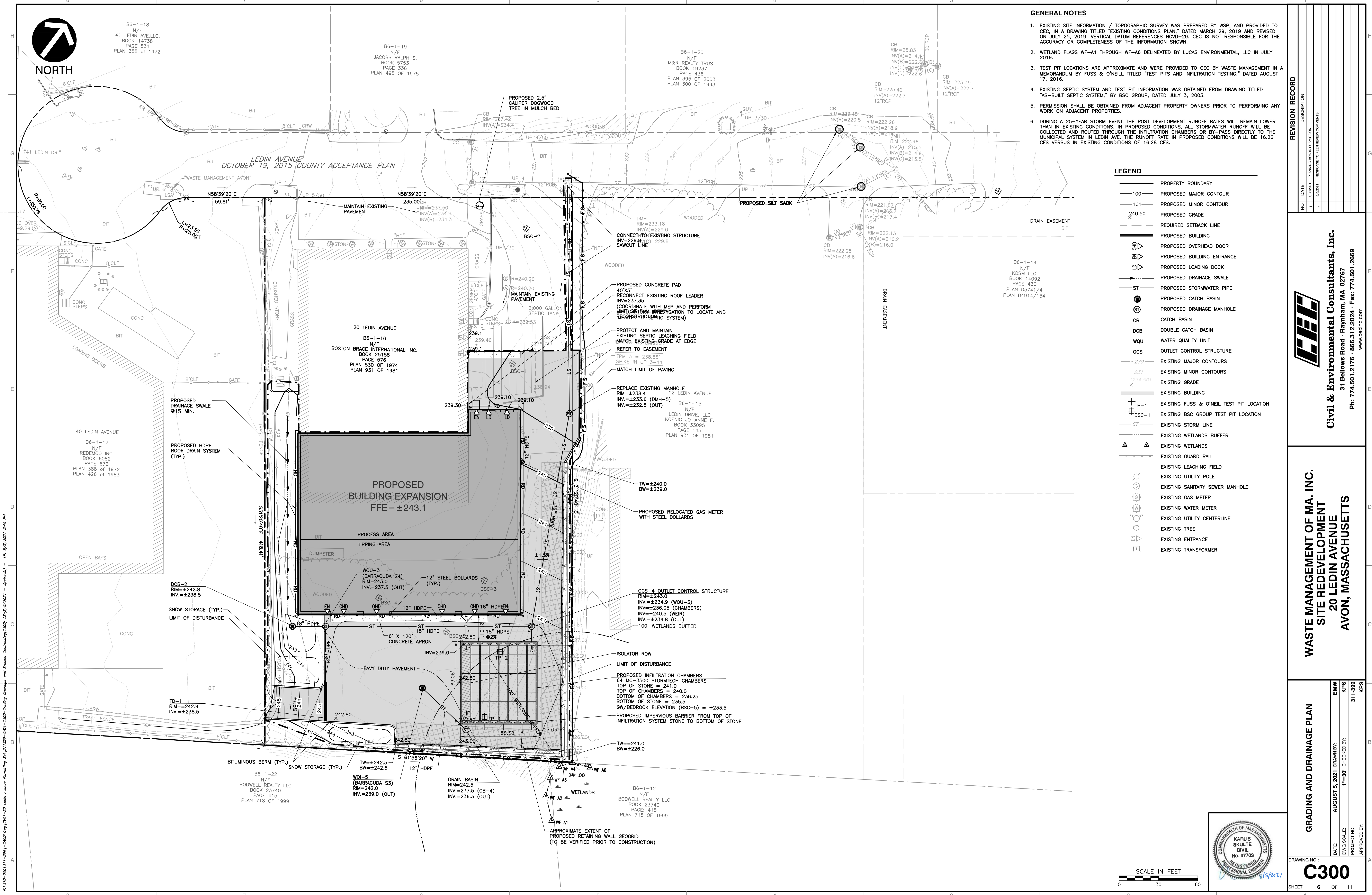
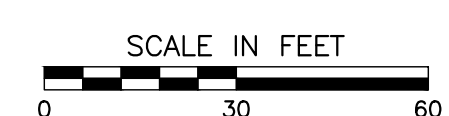
**Civil & Environmental Consultants, Inc.**  
31 Bellows Road - Raynham, MA 02767  
Ph: 774.501.2176 • 866.312.2024 • Fax: 774.501.2669  
www.cecinc.com

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

**GRADING AND DRAINAGE PLAN**

DRAWING NO. **C300**  
SHEET 6 OF 11

DATE: AUGUST 5, 2021  
DWG SCALE: 1"=30'  
PROJECT NO: 311-989  
APPROVED BY: KPS



A:\170-2021\171-3981-C002\DWG\DWG-30 Ledin Avenue Permitting 24\171398-C001-C300-Grading, Drainage and Erosion Control.dwg (C300) (5/16/2021 - dsk) - LP: 8/16/2021 4:42 PM



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)=213.0 (C)  
INV(D)=222.6

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

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

CB  
RIM=222.48  
INV(A)=220.5  
12" RCP

CB  
RIM=222.26  
INV(A)=218.9  
12" RCP

CB  
RIM=222.96  
INV(A)=215.5  
12" RCP

CB  
RIM=222.13  
INV(A)=216.2  
12" RCP

CB  
RIM=222.25  
INV(A)=216.6  
12" RCP

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

**GENERAL NOTES**

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**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
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- WQU — WATER QUALITY UNIT
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- — EXISTING WETLANDS
- — EXISTING GUARD RAIL
- — EXISTING LEACHING FIELD
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- — EXISTING SANITARY SEWER MANHOLE
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- — EXISTING ENTRANCE
- — EXISTING TRANSFORMER

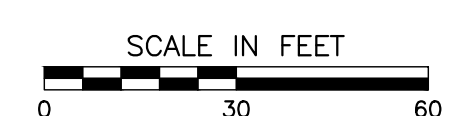
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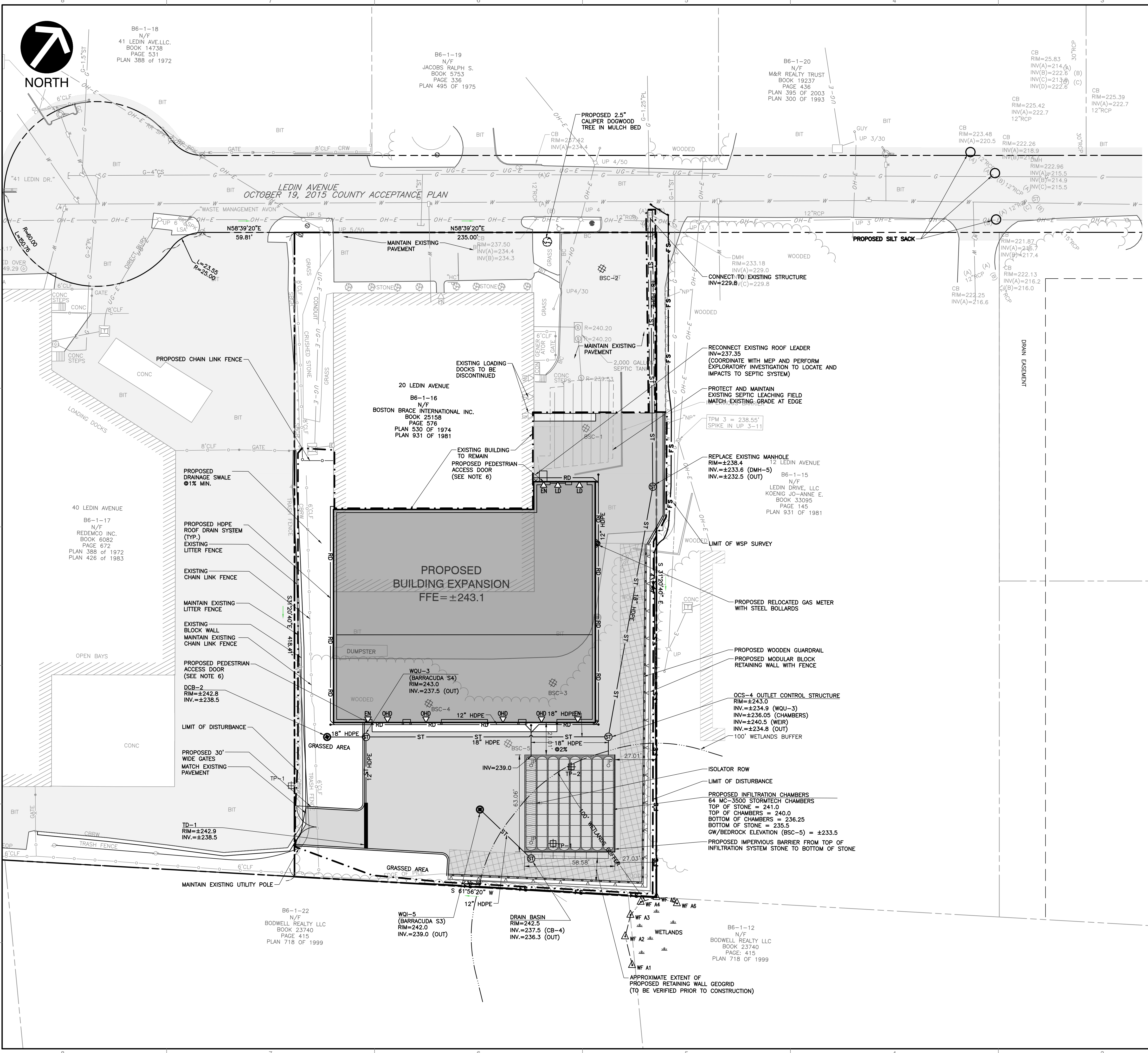
**WASTE MANAGEMENT OF MA, INC.**  
SITE REDEVELOPMENT  
20 LEDIN AVENUE  
AVON, MASSACHUSETTS

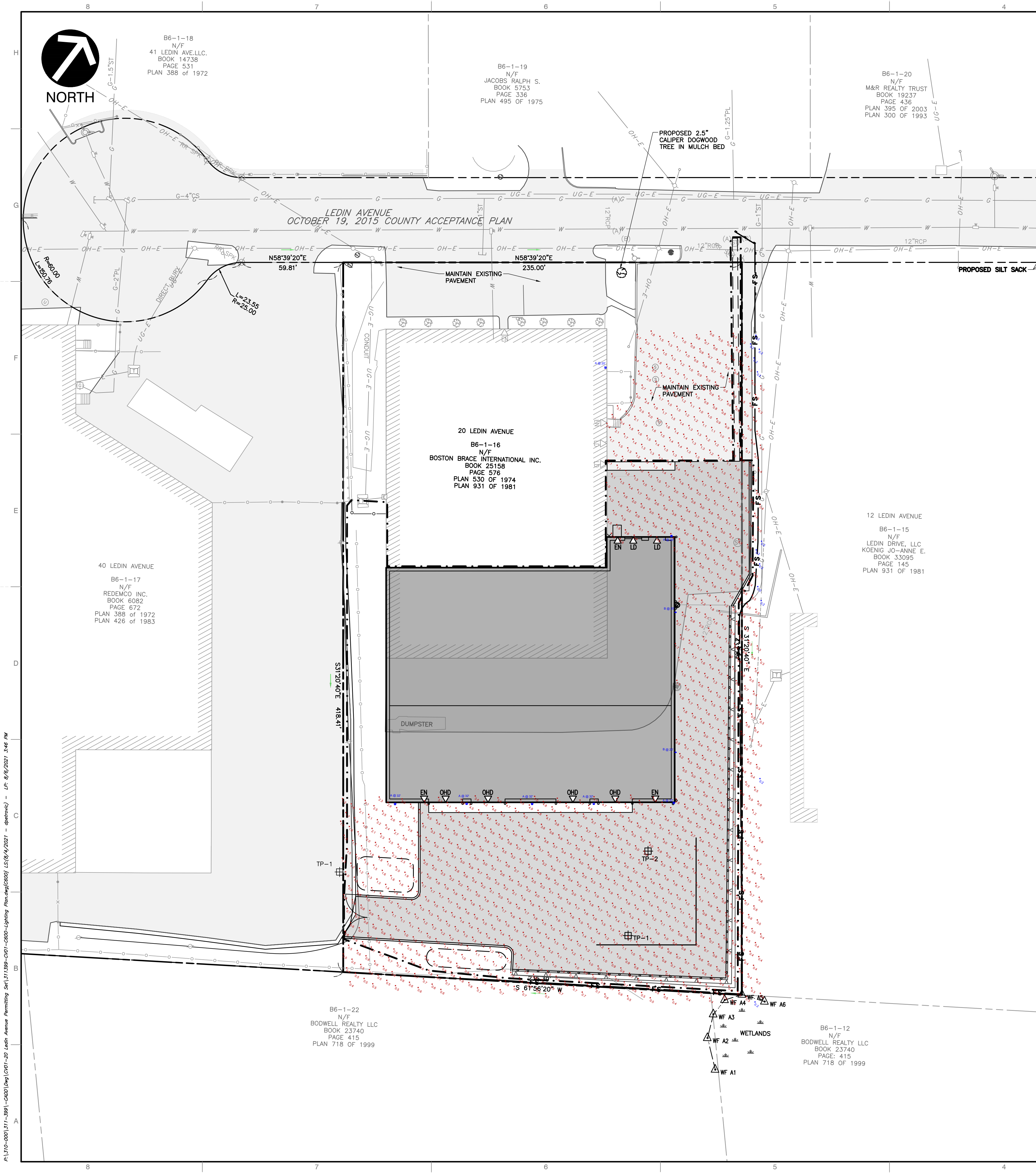
**UTILITY PLAN**

DATE: AUGUST 5, 2021  
DRAWN BY: EMM/KPS  
PROJECT NO: 11-30  
CHECKED BY: 311-989  
APPROVED BY: KPS



A:\170-2001\171-3981-0000\Drawings\171-3981-0000-Utility Plan\Utility Plan.dwg (2021-08-05 11:11:39 AM) - User: jgarcia - Plot: 8/5/2021 2:54 PM





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TYPE A LIGHT

## McGraw-Edison

### GWC Galleon Wall

Wall Mount Luminaire



TYPE B LIGHT

## McGraw-Edison

### Impact Elite LED

Wall Mount Luminaire

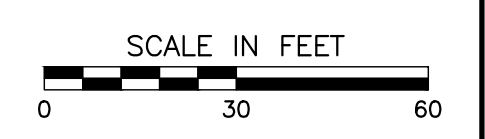


- LEGEND**
- PROPERTY BOUNDARY
  - 100 PROPOSED MAJOR CONTOUR
  - 101 PROPOSED MINOR CONTOUR
  - 240.50 PROPOSED GRADE
  - REQUIRED SETBACK LINE
  - PROPOSED BUILDING
  - PROPOSED OVERHEAD DOOR
  - PROPOSED BUILDING ENTRANCE
  - PROPOSED LOADING DOCK
  - PROPOSED DRAINAGE SWALE
  - ST PROPOSED STORMWATER PIPE
  - PROPOSED CATCH BASIN
  - PROPOSED DRAINAGE MANHOLE
  - CB CATCH BASIN
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  - WQU WATER QUALITY UNIT
  - OCS OUTLET CONTROL STRUCTURE
  - EXISTING BUILDING
  - TP-1 EXISTING FUSS & O'NEIL TEST PIT LOCATION
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  - G EXISTING GAS LINE
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  - 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

**LIGHT SCHEDULE**

Label	Catalog Number	Description	Lamp Color	Watts	Lumens
A	GWC-SA2C-740-U-T4FT	COOPER LIGHTING - GALLEON WALL LUMINAIRE	4000K	113	14,850
B	IST-SA1E-740-U-T3	COOPER LIGHTING - IMPACT ELITE LED TRAPEZOID LUMINAIRE	4000K	58	7,012

**LIGHT CALCULATIONS (PAVED AREAS)**  
 AVERAGE FOOT CANDLES 2.0  
 MAX. FOOT CANDLES 5.9  
 MIN. FOOT CANDLES 4  
 AVERAGE/MIN. 5:1



**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

**LIGHTING PLAN**

DATE: AUGUST 5, 2021 | DRAWN BY: BJH  
 DWG SCALE: 1"=30' | CHECKED BY: KPS  
 PROJECT NO: 311-399  
 APPROVED BY: KPS

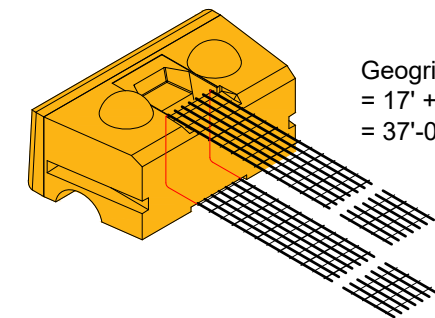
A:\170-2021\171-3991-0002\Draw\DWG\171-3991-0002-Lighting Plan.dwg(000) LS(8/4/2021) - LP: 8/6/2021 3:46 PM



**LOAD CONDITION B** 250 lb/ft<sup>2</sup> (12 kPa) LIVE LOAD SURCHARGE, NO BACK SLOPE, NO TOE SLOPE

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

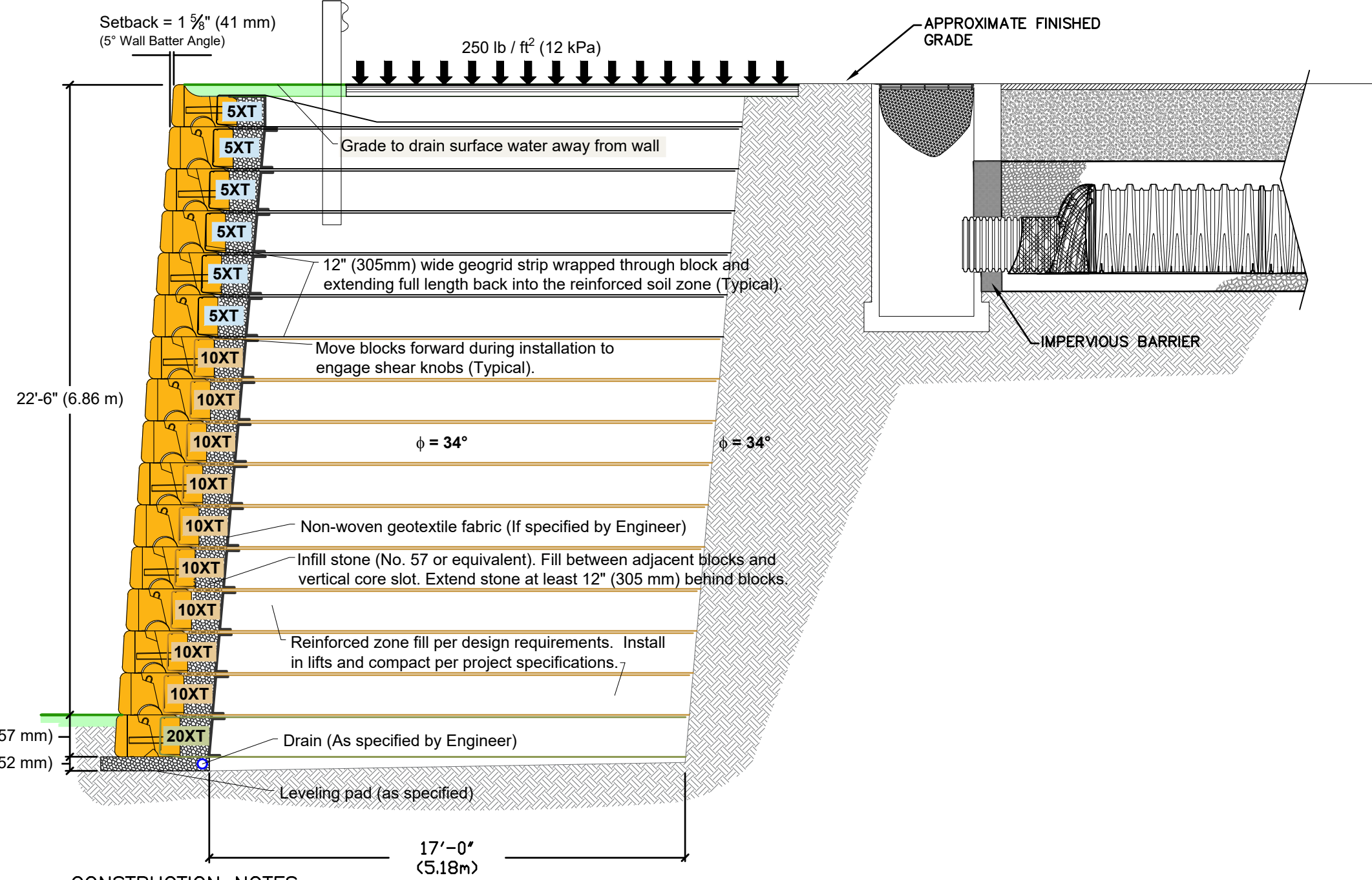
**PRELIMINARY**  
Professional Engineering Design  
Required for Construction



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 Mirafix geogrid, type as noted. Geogrid shall be **Factory cut** and **Certified** for width and strength by TenCate Mirafix.

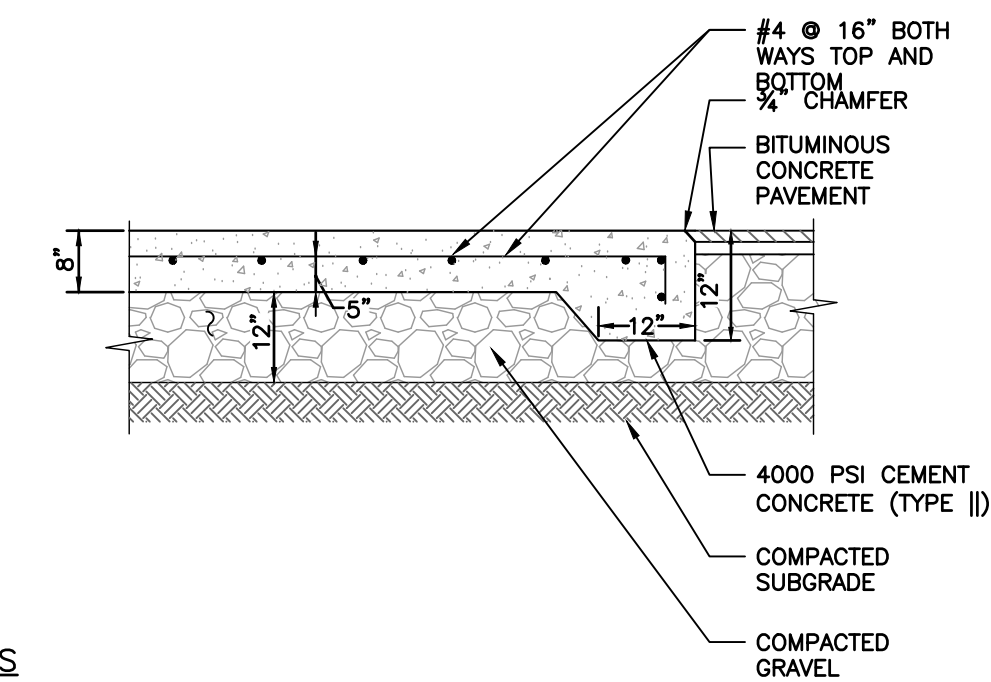


**CONSTRUCTION NOTES**

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

**REDIROCK PC SYSTEM WALL TYPICAL CROSS SECTION**

N.T.S.

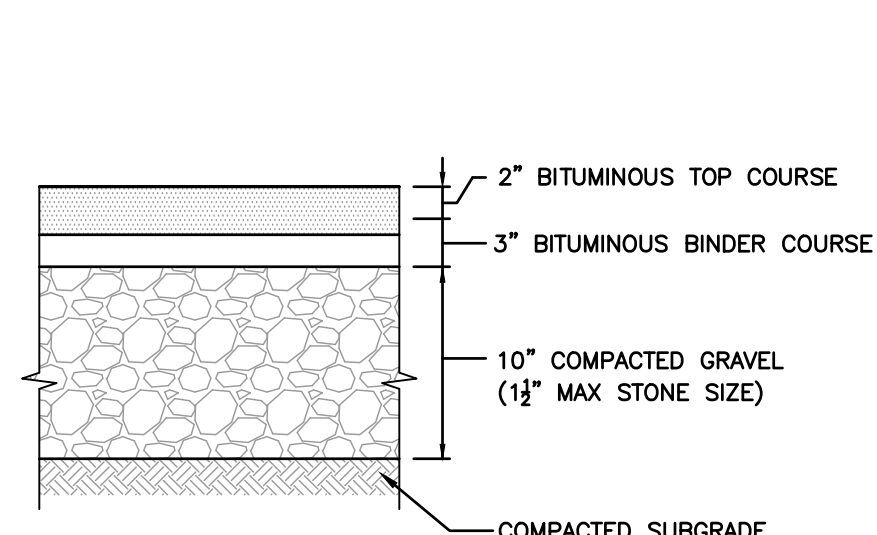


**NOTES**

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.



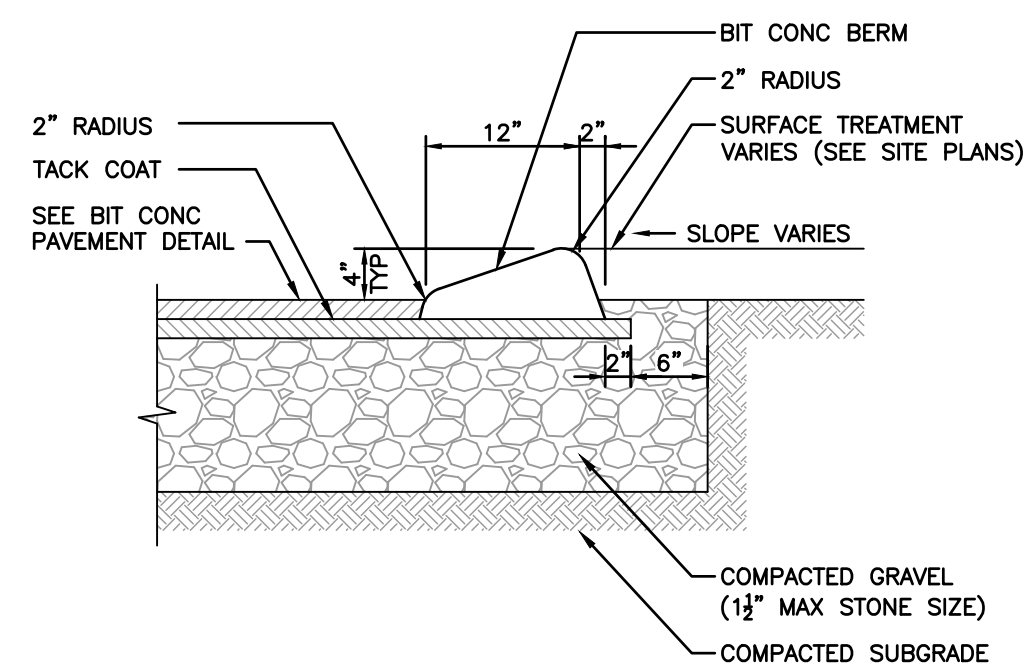
**HEAVY DUTY FLEXIBLE PAVEMENT**

**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.

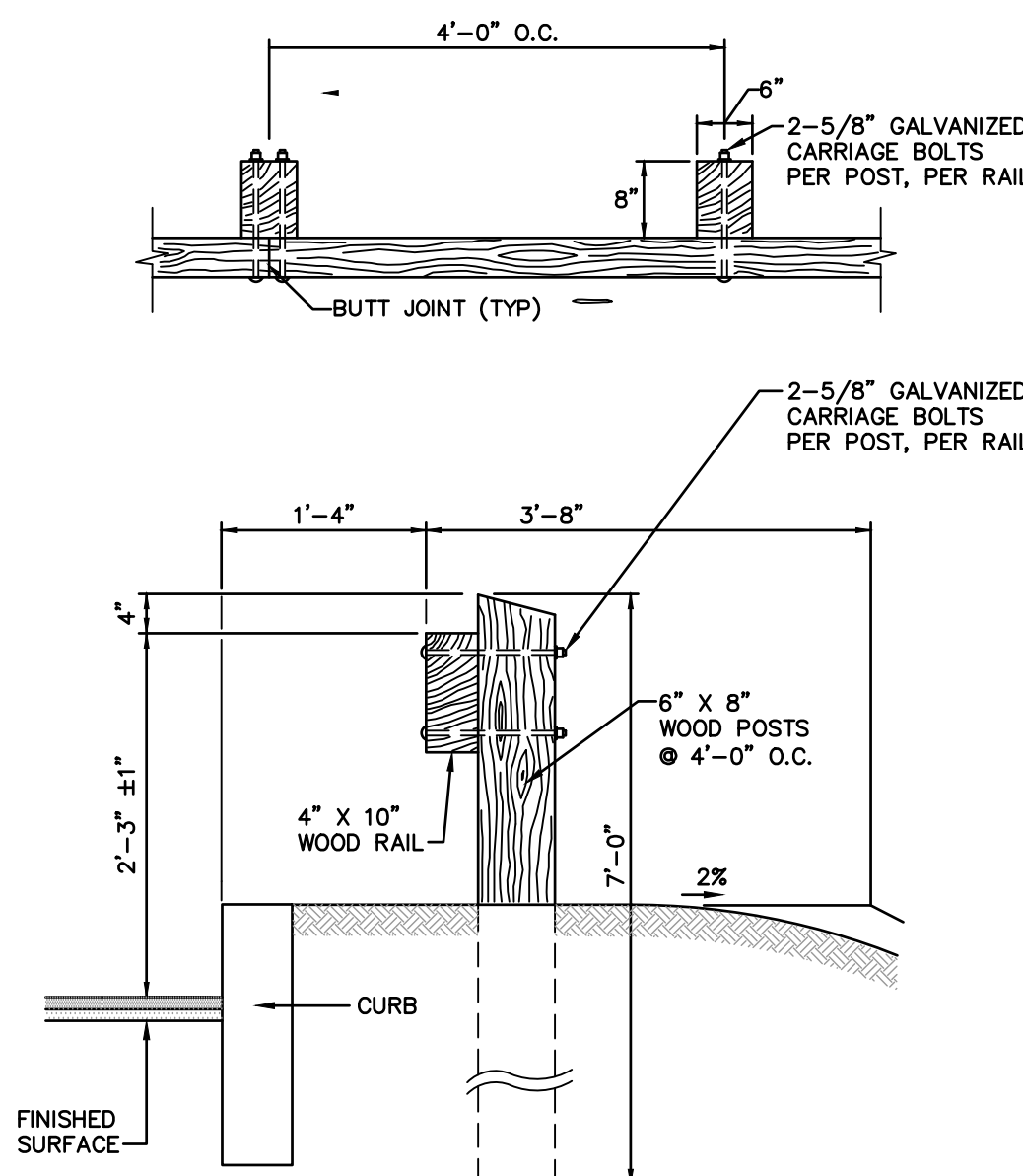


**CONSTRUCTION NOTES**

1. ALL CURBING TO BE MACHINE EXTRUDED.

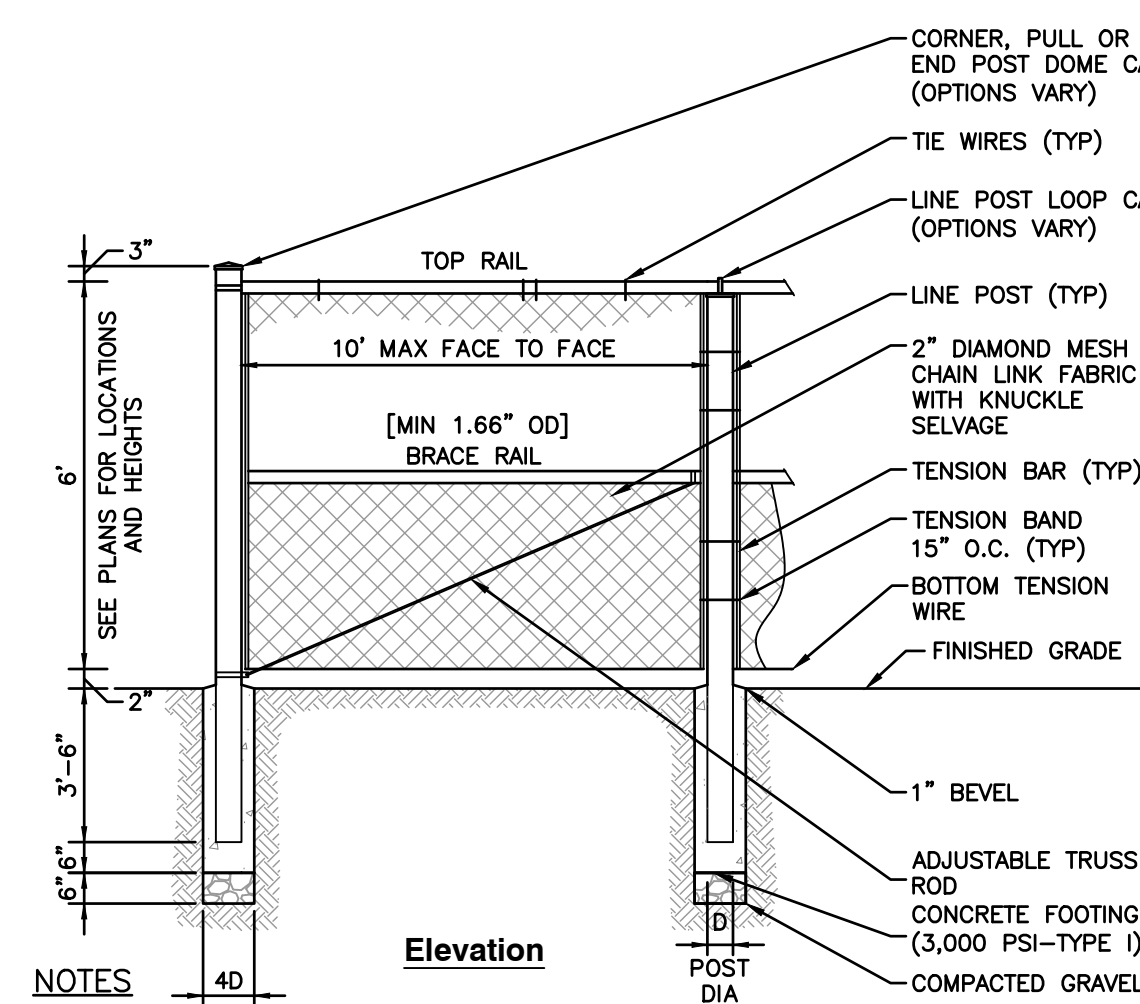
**BITUMINOUS CONCRETE BERM**

N.T.S.



**WOOD GUARDRAIL**

N.T.S.

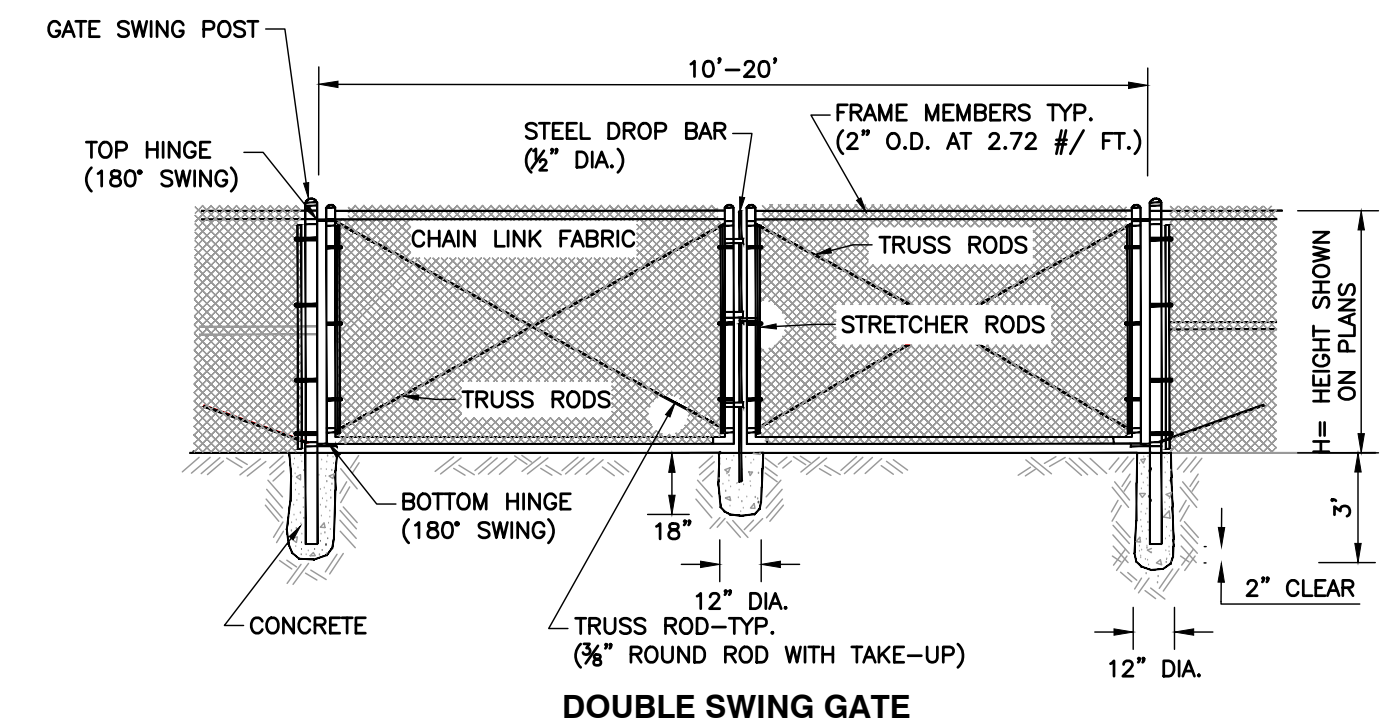


**NOTES**

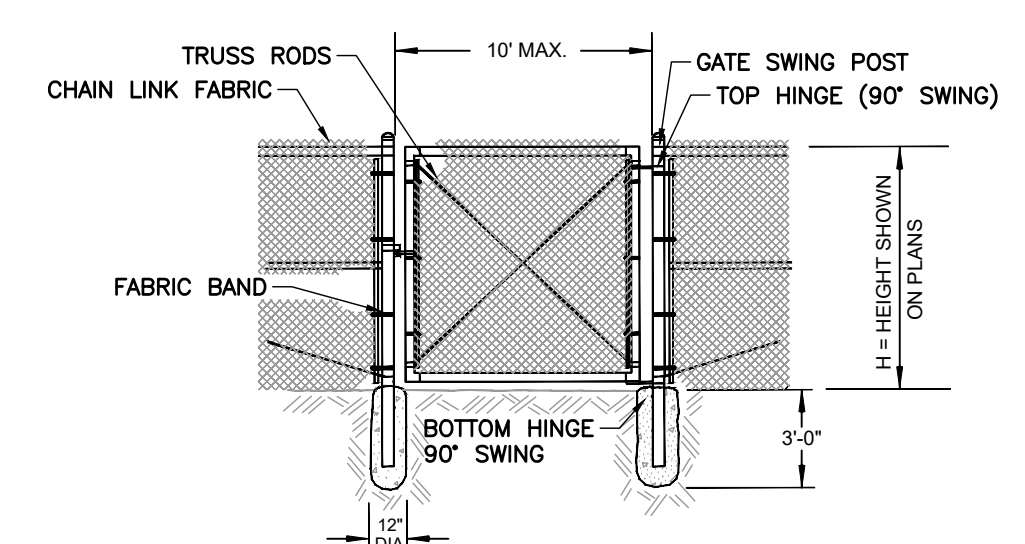
1. FENCE TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE PRODUCT MANUAL.
2. POSTS SHALL MAINTAIN A MINIMUM DEPTH OF 3'-6" IN GROUND AND SHALL NOT BE RACKED TO ACCOMMODATE CHANGES IN GRADE.
3. LINE OF FENCE, TOP AND BOTTOM, SHALL BE INSTALLED STRAIGHT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

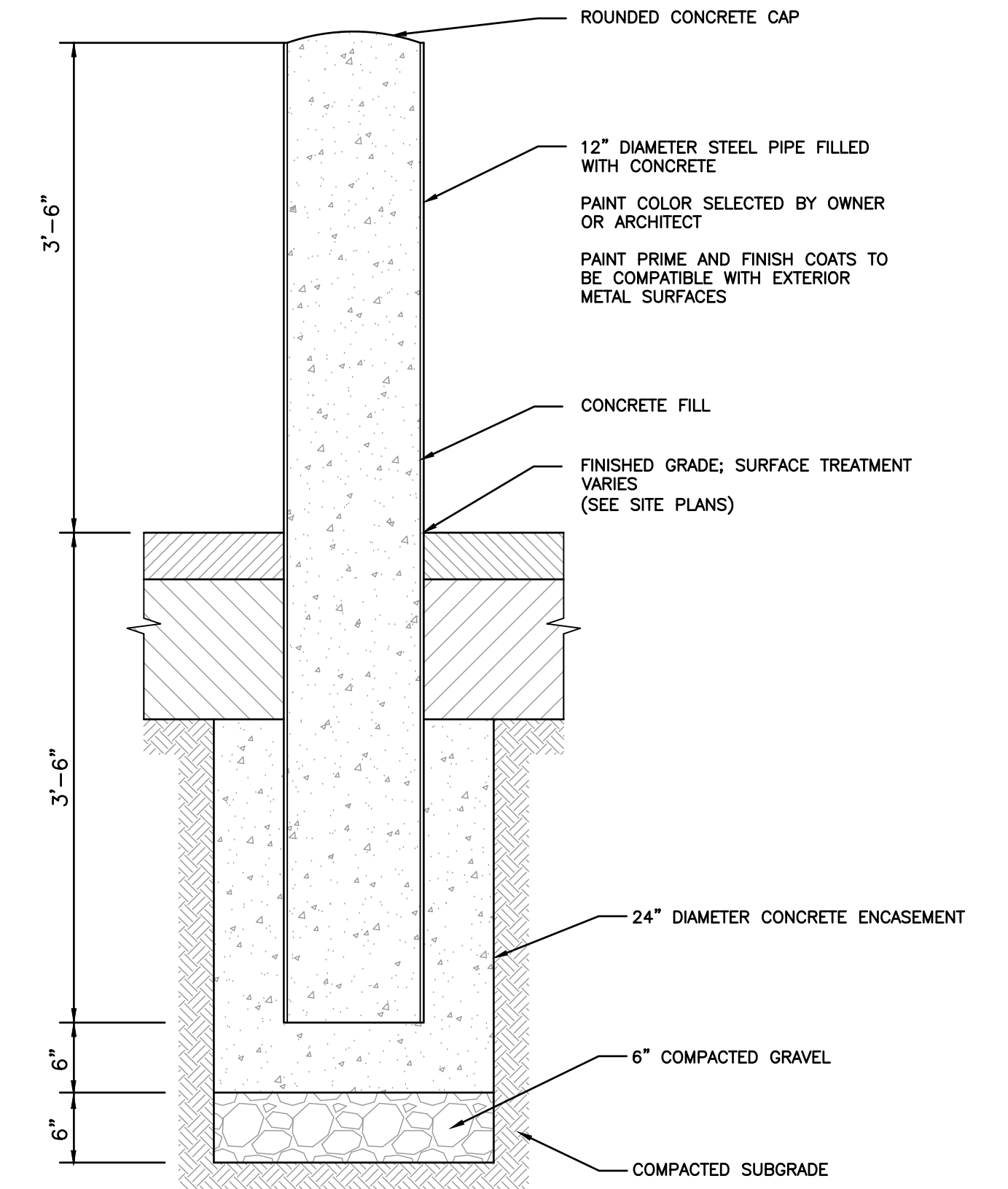


**SINGLE GATE**

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.



**BOLLARD**

N.T.S.

NO	DATE	DESCRIPTION
1	4/23/2021	PLANNING BOARD SUBMISSION
2	8/3/2021	RESPONSE TO PEER REVIEW COMMENTS

**Civil & Environmental Consultants, Inc.**  
333 Baldwin Road - Pittsburgh, PA 15205  
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**WASTE MANAGEMENT OF MA, INC.**  
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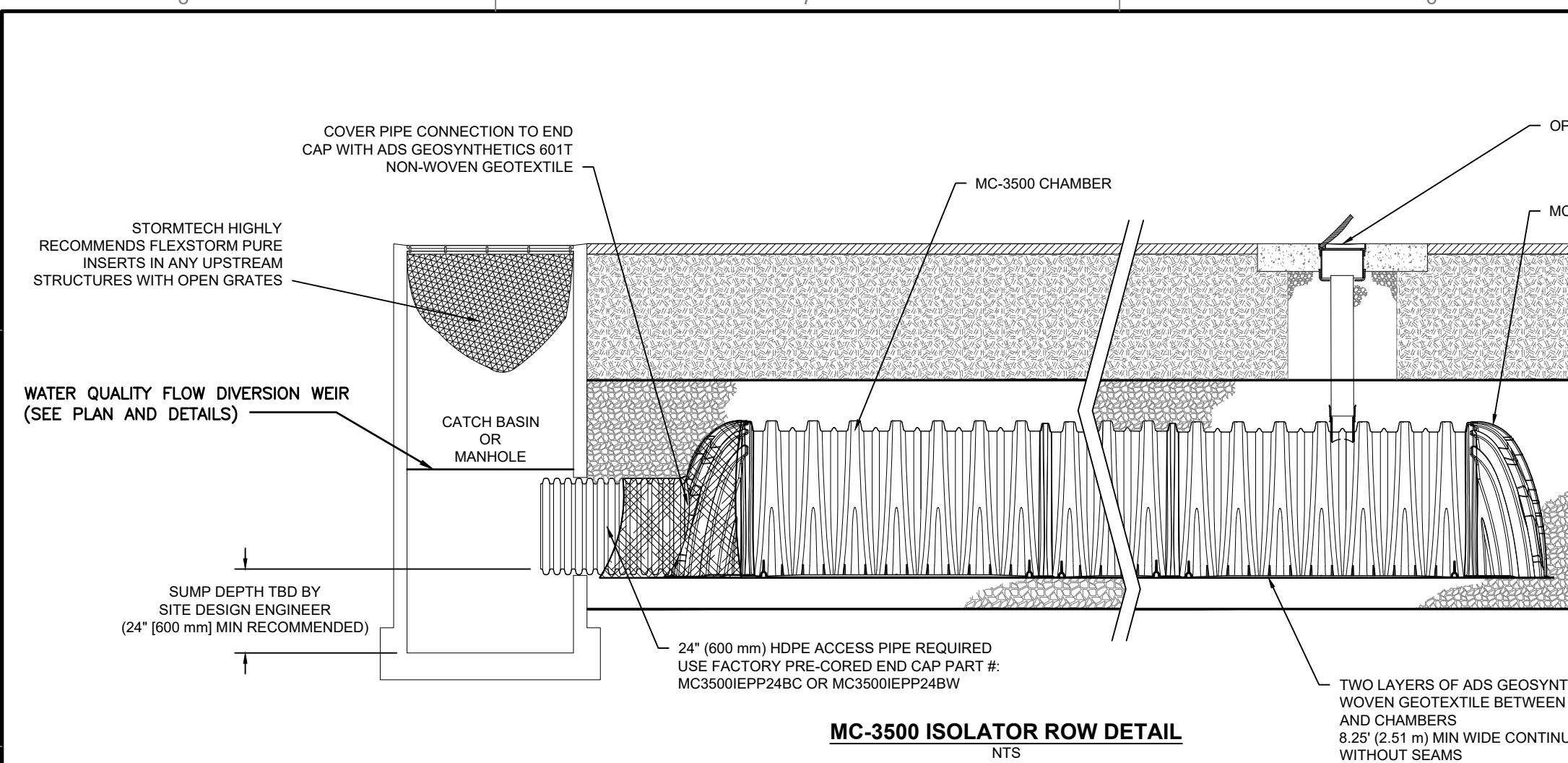
**SITE DETAILS 1**

DATE:	EMW	KPS
AUGUST 5, 2021	DRAWN BY:	311-399
DWG SCALE:	AS SHOWN	CHECKED BY:
PROJECT NO:		APPROVED BY:

DRAWING NO.:

**C800**

SHEET 9 OF 11



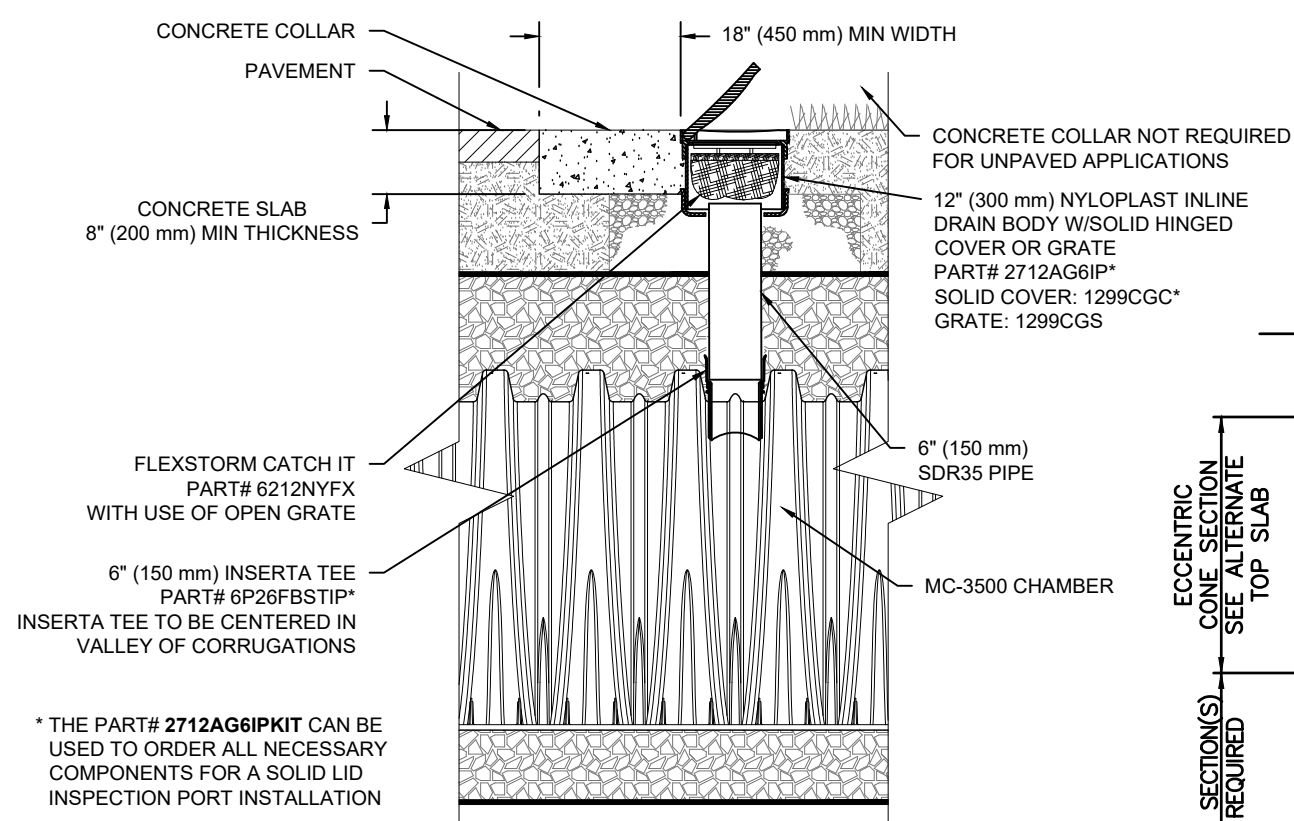
**MC-3500 ISOLATOR ROW DETAIL**  
NTS

**INSPECTION & MAINTENANCE**

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT**
- A. INSPECTION PORTS (IF PRESENT)
    - A.1. REMOVE/OPEN LID ON NYLOPLAST IN-LINE 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" (80 mm) PROCEED TO STEP 2; IF NOT, PROCEED TO STEP 3.
  - B. ALL ISOLATOR ROWS
    - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - B.2. MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - B.3. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
    - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2; IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS**
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
  - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
  - C. VACUUM STRUCTURE SUMP AS REQUIRED
- 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 VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

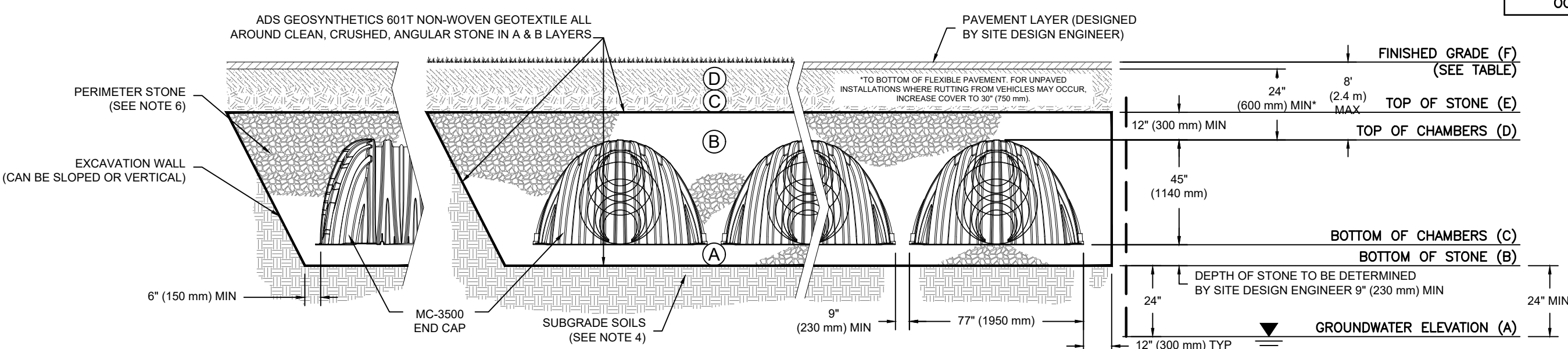


**MC-3500 6\"/>**

**ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS**

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	<b>FINAL FILL:</b> 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.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24\"/>	AASHTO M145 <sup>1</sup> A-1, A-2.4, A-3 OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24\"/>
B	<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>1</sup> 3, 4	NO COMPACTION REQUIRED.
A	<b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 <sup>1</sup> 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>1, 2</sup>

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE."
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9\"/>
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGN, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



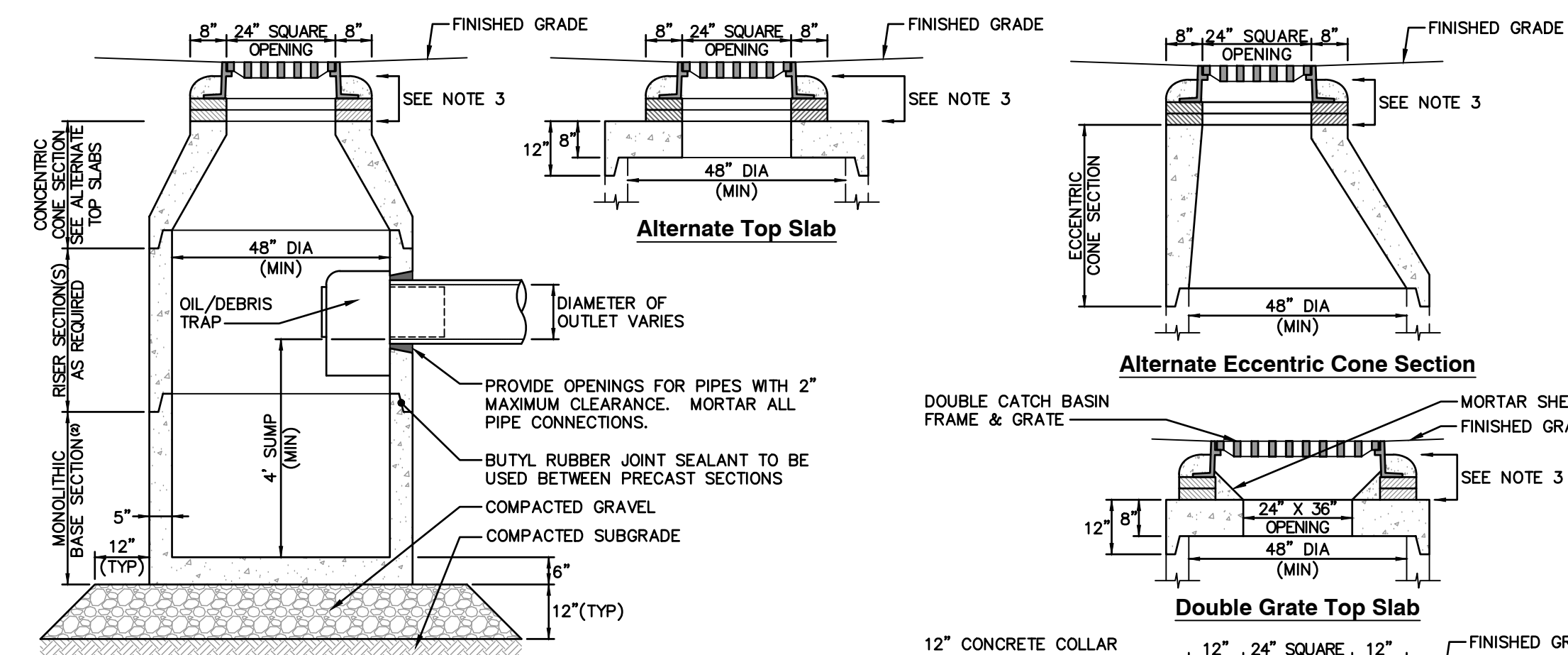
INFILTRATION CHAMBER I.D.	(A) GROUNDWATER EL.	(B) BOTTOM OF STONE	(C) BOTTOM OF CHAMBERS	(D) TOP OF CHAMBERS	(E) TOP OF STONE	(F) MIN. FINISHED GRADE
A1 (48 CHAMBERS)	±233.5	235.5	236.25	240.00	241.00	242.50

**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 ABOVE 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.

**STORMTECH MC 3500 TYPICAL DETAIL**

N.T.S.

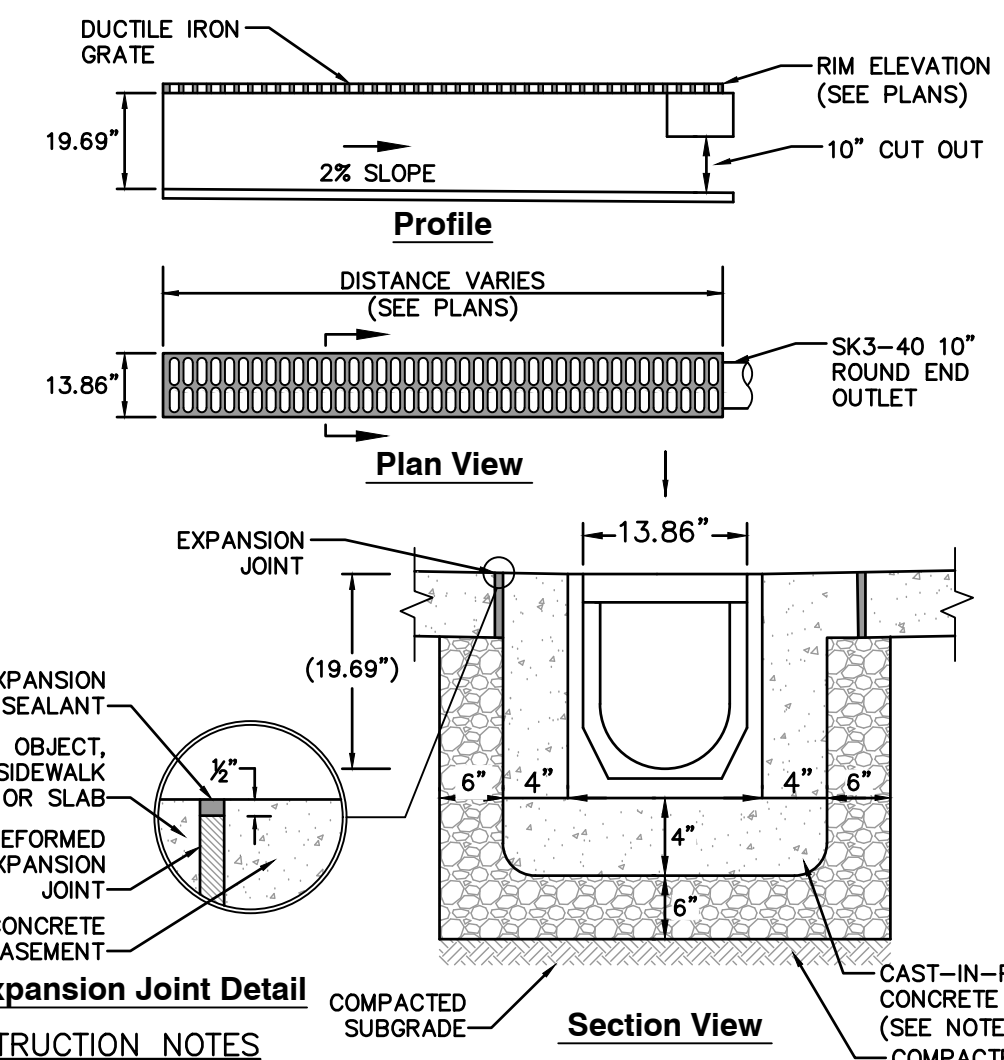


**CONSTRUCTION NOTES**

- 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" MAXIMUM CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON THE PIPE. GROUT ALL CONNECTIONS WITH NON-SHRINK GROUT.

**CATCH BASIN WITH OIL/DEBRIS TRAP**

N.T.S.



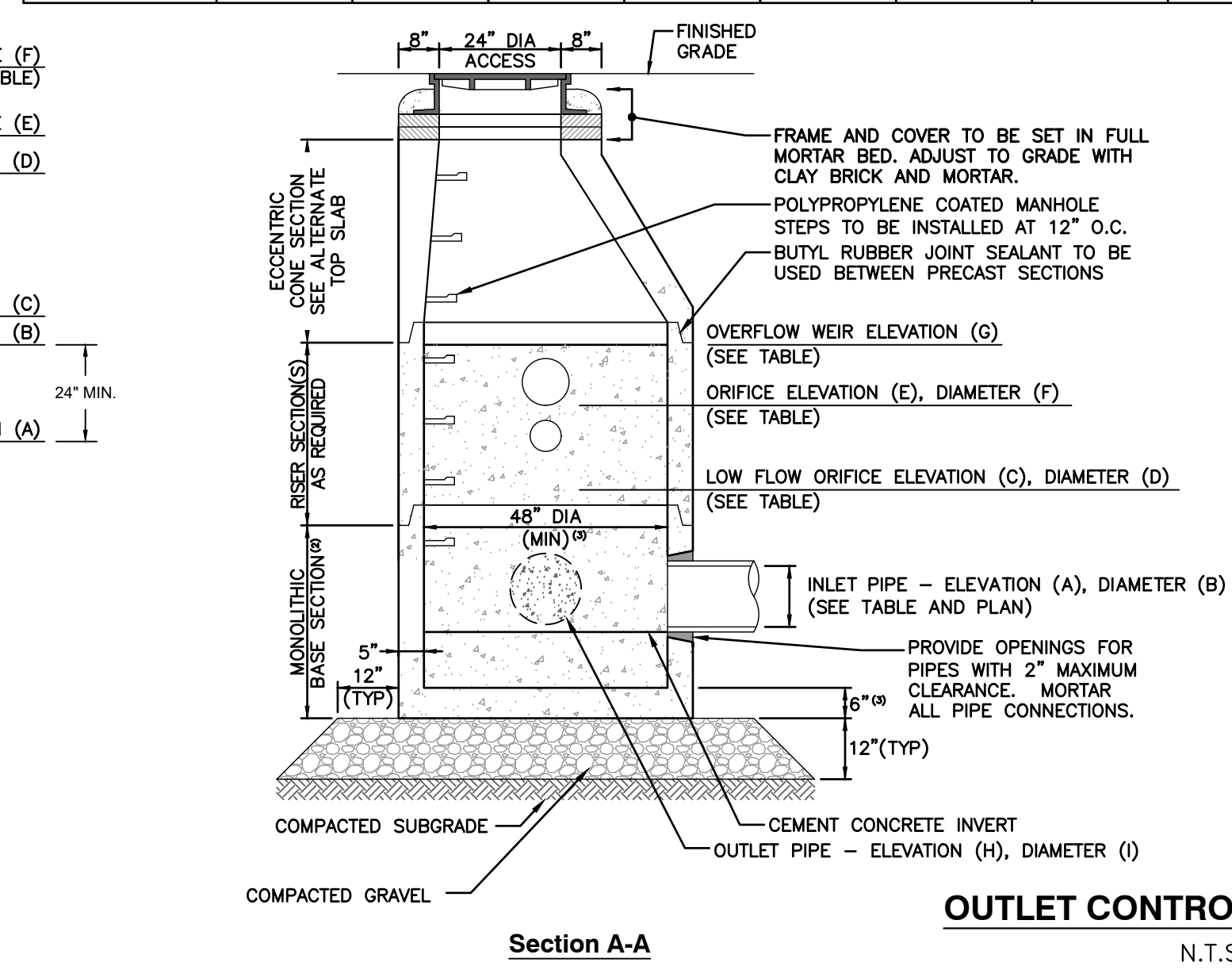
**CONSTRUCTION NOTES**

- TRENCH DRAIN SHALL BE HEAVY DUTY TYPE DESIGNED FOR HS-20 LOADING.
- CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
- TRENCH DRAIN GRATE SHALL MEET AMERICANS WITH DISABILITY ACT (ADA) REGULATIONS WHEN PLACED IN ACCESSIBLE ROUTES.
- METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS

**TRENCH DRAIN**

N.T.S.

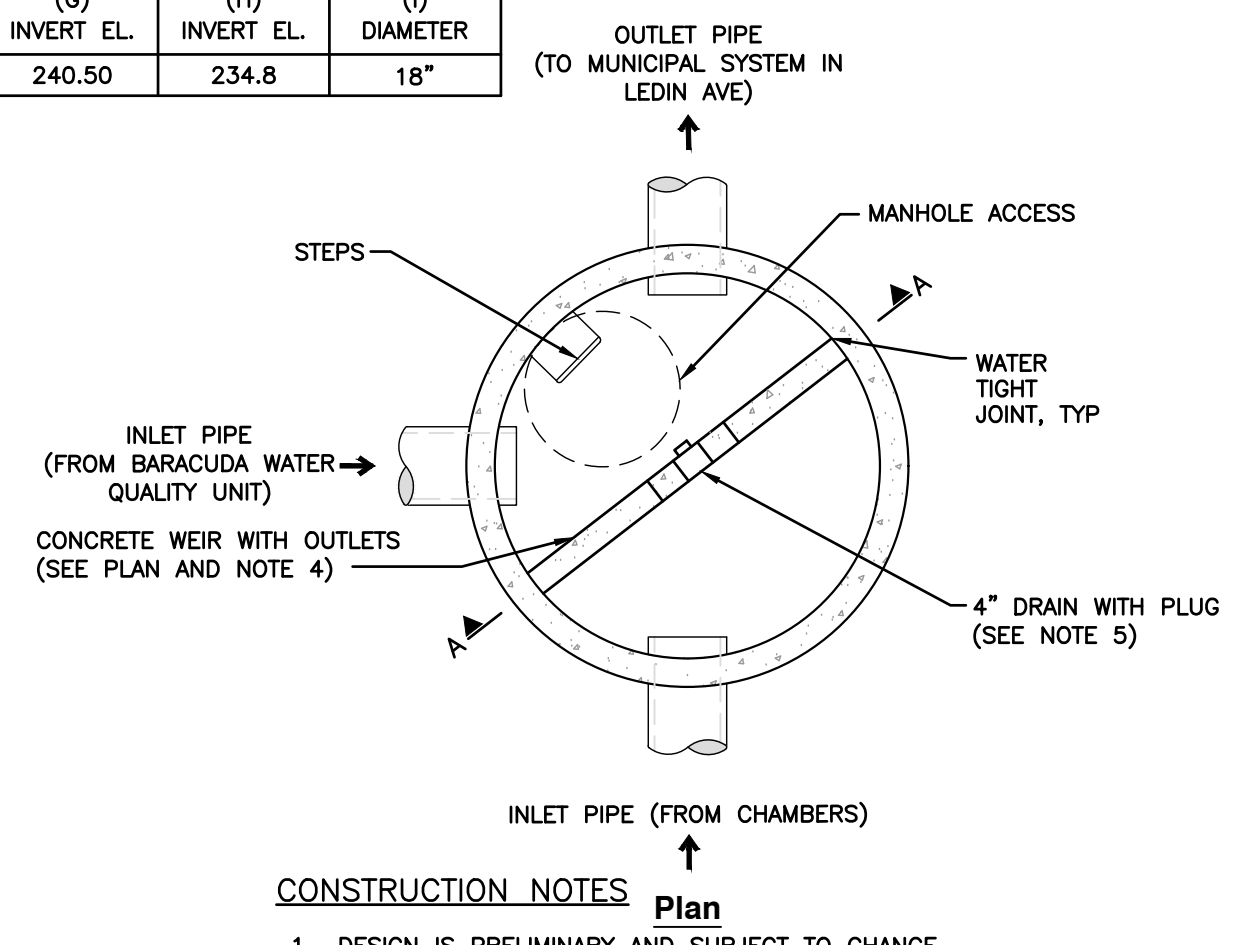
OUTLET CONTROL STRUCTURE	INLET PIPE (WQU-3)		INLET PIPE (CHAMBERS)		LOW FLOW ORIFICE		ORIFICE (1)		OVERFLOW WEIR		OUTLET PIPE
	(C) INVERT EL.	(D) DIAMETER	(C) INVERT EL.	(D) DIAMETER	(C) INVERT EL.	(D) DIAMETER	(E) INVERT EL.	(F) DIAMETER	(G) INVERT EL.	(H) INVERT EL.	(I) DIAMETER
OCS 4	234.90	18"	236.05	18"	236.75	6"	238.50	8"	240.50	234.8	18"



**Drain Manhole**  
N.T.S.

**OUTLET CONTROL STRUCTURE**

N.T.S.



**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" (5'-0") INSIDE DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET. 6" MINIMUM WALL THICKNESS AND 7" MINIMUM BASE THICKNESS FOR 5'-0" DIAMETER PRECAST MANHOLE.
- SEE PLANS FOR WEIR ELEVATIONS AND CONFIGURATIONS.
- PLUG SHALL CONSIST OF A 4" PVC PIPE WITH A THREADED PLUG.

**NYLOPLAST DRAIN BASIN**

N.T.S.

**NOTES**

- DETAIL BASED ON DRAIN BASIN BY NYLOPLAST.

**REVISION RECORD**

NO.	DATE	DESCRIPTION
1.	4/23/2021	PLANNING BOARD SUBMISSION
2.	8/3/2021	RESPONSE TO PEER REVIEW COMMENTS

**Civil & Environmental Consultants, Inc.**  
333 Baldwin Road - Pittsburgh, PA 15205  
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**WASTE MANAGEMENT OF MA, INC.**  
SITE REDEVELOPMENT  
20 LEDIN AVENUE  
AVON, MASSACHUSETTS

**SITE DETAILS 2**

DRAWING NO. **C801**

SHEET 10 OF 11

DATE: AUGUST 5, 2021  
DWG SCALE: AS SHOWN  
PROJECT NO: 311-399  
EIMW: KPS  
KPS  
APPROVED BY: [Signature]





- GENERAL NOTES**
- FOR PRE-ENGINEERED METAL BUILDING PLANS AND SECTIONS SEE BUTLER MANUFACTURING DRAWING PACKAGE.
  - ELEVATIONS ARE PRELIMINARY AND ARE PROVIDED TO CONVEY BUILDING EXTERIOR FINISHES, AND BUILDING CONFIGURATION.
  - GRADE PLANE: A REFERENCE PLANE REPRESENTING THE AVERAGE OF FINISHED GROUND LEVEL ADJOINING THE BUILDING AT EXTERIOR WALLS. WHERE THE FINISHED GROUND LEVEL SLOPES AWAY FROM THE EXTERIOR WALLS, THE REFERENCE PLANE SHALL BE ESTABLISHED BY THE LOWEST POINTS WITHIN THE AREA BETWEEN THE BUILDING AND THE LOT LINE OR, WHERE THE LOT LINE IS MORE THAN 6 FEET (1829MM) FROM THE BUILDING, BETWEEN THE BUILDING AND A POINT 6 FEET (1829MM) FROM THE BUILDING.
  - WORK THIS DRAWING WITH DRAWING A101.

NO.	DATE	DESCRIPTION
1	02 AUG 2021	RESPONSE TO PEER SUBMISSION COMMENTS

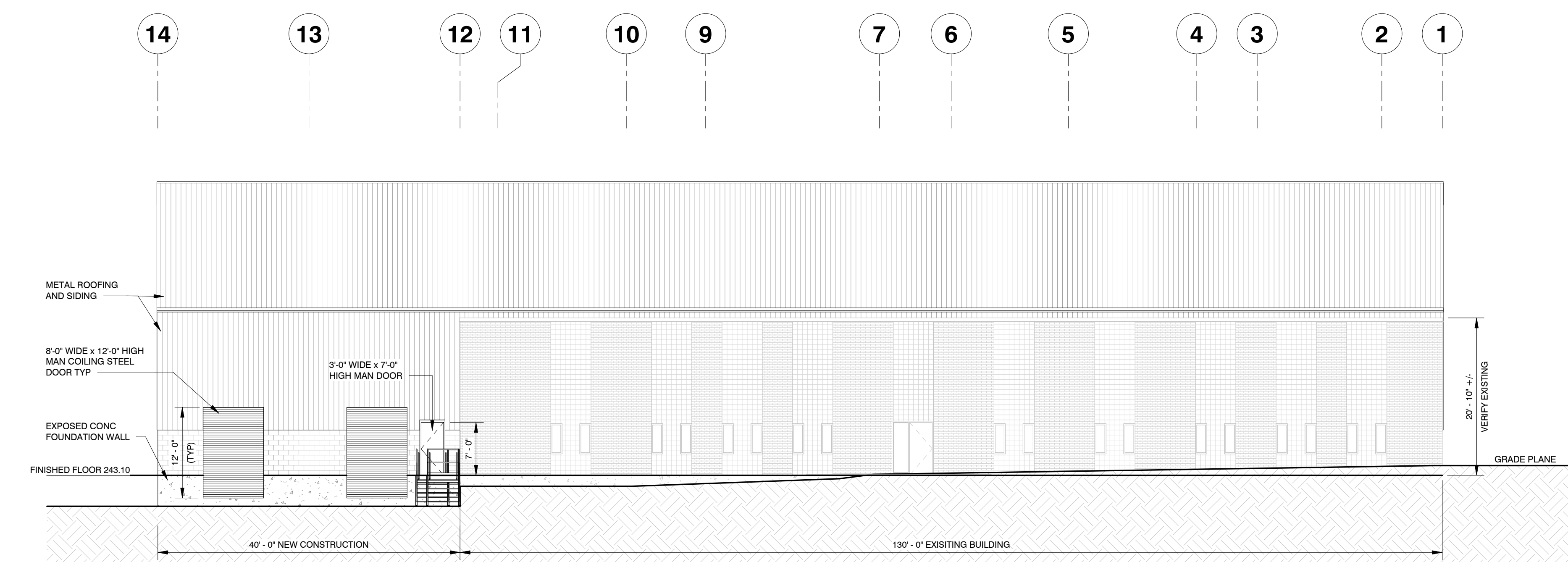
**Civil & Environmental Consultants, Inc.**  
 31 Bellows Road • Raynham, MA 02707  
 Ph: 774-501-2176 • 888-312-2024 • Fax: 774-501-2669  
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**WASTE MANAGEMENT OF MA, INC.**  
 SITE REDEVELOPMENT  
 20 LEDIN AVENUE  
 AVON, MASSACHUSETTS

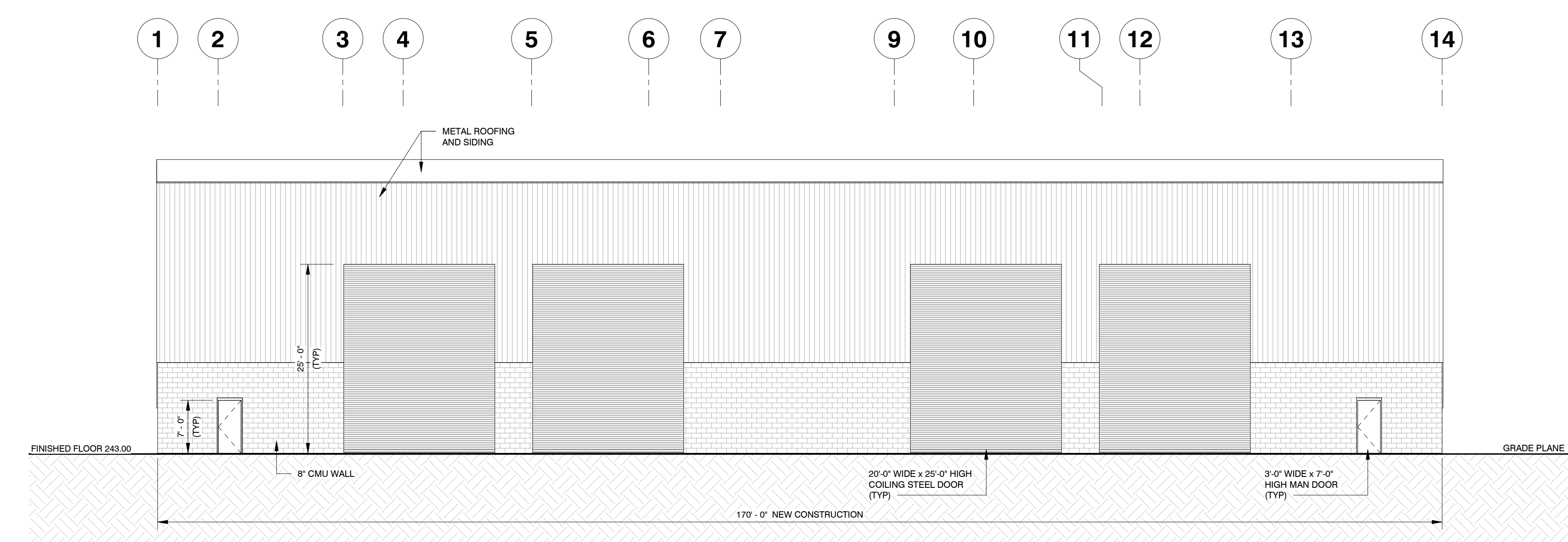
**ARCHITECTURAL**  
 EXTERIOR ELEVATIONS

DATE	JUL 2021	DRAWN BY:	J. BOLDEN
DWG SCALE	AS SHOWN	CHECKED BY:	R. SUSALLA
PROJECT NO.		APPROVED BY:	K. SKILTE

DRAWING NO. **A100**  
 SHEET OF 1



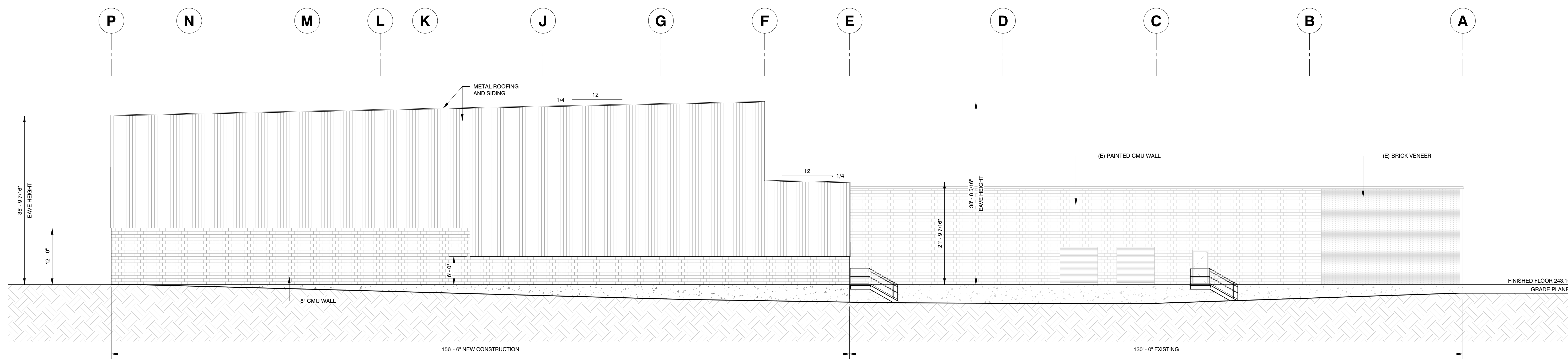
**1 NORTH ELEVATION**  
 3/32" = 1'-0"



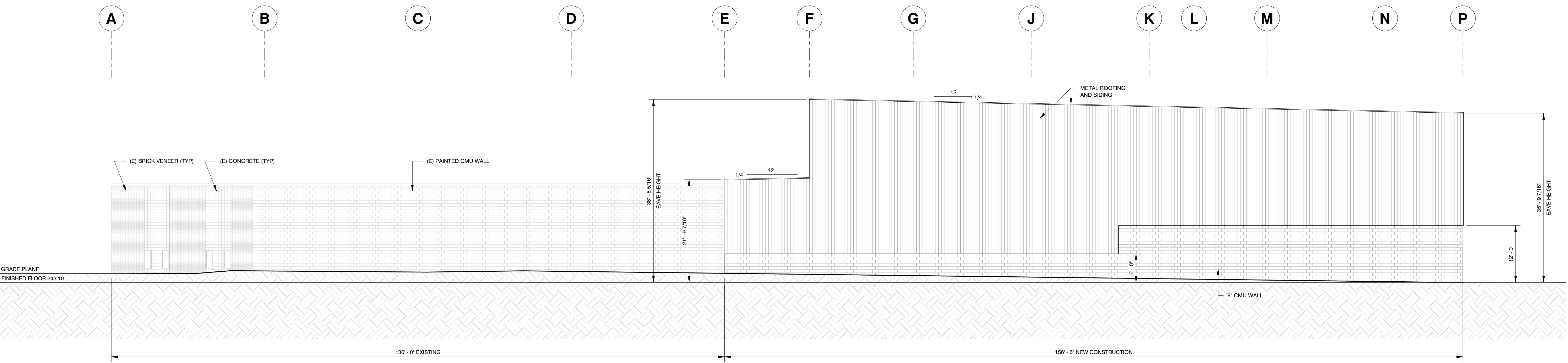
**2 SOUTH ELEVATION**  
 3/32" = 1'-0"

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- GENERAL NOTES**
- FOR PRE-ENGINEERED METAL BUILDING PLANS AND SECTIONS SEE BUTLER MANUFACTURING DRAWING PACKAGE.
  - ELEVATIONS ARE PRELIMINARY AND ARE PROVIDED TO CONVEY BUILDING EXTERIOR FINISHES, AND BUILDING CONFIGURATION.
  - GRADE PLANE: A REFERENCE PLANE REPRESENTING THE AVERAGE OF FINISHED GROUND LEVEL ADJOINING THE BUILDING AT EXTERIOR WALLS. WHERE THE FINISHED GROUND LEVEL SLOPS AWAY FROM THE EXTERIOR WALLS, THE REFERENCE PLANE SHALL BE ESTABLISHED BY THE LOWEST POINTS WITHIN THE AREA BETWEEN THE BUILDING AND THE LOT LINE OR, WHERE THE LOT LINE IS MORE THAN 6 FEET (1829 MM) FROM THE BUILDING, BETWEEN THE BUILDING AND A POINT 6 FEET (1829 MM) FROM THE BUILDING.
  - WORK THIS DRAWING WITH DRAWING A101.



**1 EAST ELEVATION**  
3/32" = 1'-0"



**2 WEST ELEVATION**  
3/32" = 1'-0"

NO.	DATE	DESCRIPTION
1	02 AUG 2021	RESPONSE TO PEER SUBMISSION COMMENTS

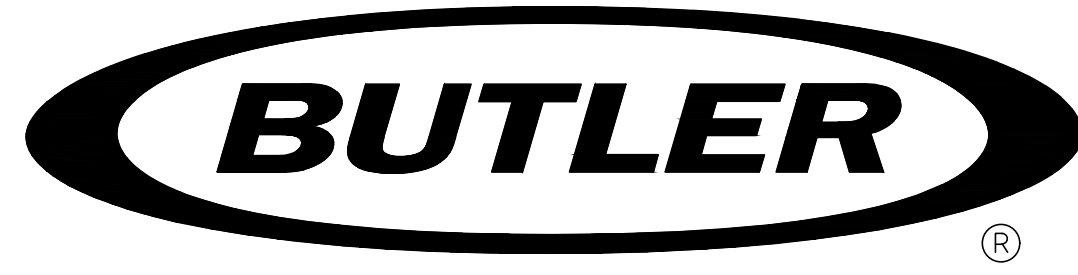
**Civil & Environmental Consultants, Inc.**  
31 Bellows Road • Raynham, MA 02707  
Ph: 774-501-2176 • 866-312-2624 • Fax: 774-501-2669  
www.cecinco.com

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

DATE	JUL 2021	DRAWN BY:	J. BOLDEN
DWG SCALE	AS SHOWN	CHECKED BY:	R. SUSALLA
PROJECT NO.		APPROVED BY:	K. SKILTE

DRAWING NO. **A101**  
SHEET OF 1

C:\Users\jbolden\Documents\Waste Management\Waste Management\2021\2021-07-20\2021-07-20\_2021-07-20.dwg



**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 QAA IS IN COMPLIANCE WITH THE PROJECT CODES AND EXTENT OF SPECIAL INSPECTIONS AND NDT WELD TESTING MUST BE SPECIFICALLY STIPULATED IN CONTRACT DOCUMENTS OR AGREEMENTS. ALL SPECIAL INSPECTIONS AND TESTING SHALL BE CONDUCTED BY A LICENSED INSPECTOR OR QUALIFIED PERSONNEL AS SPECIFIED IN THE CONTRACT DOCUMENTS. (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)

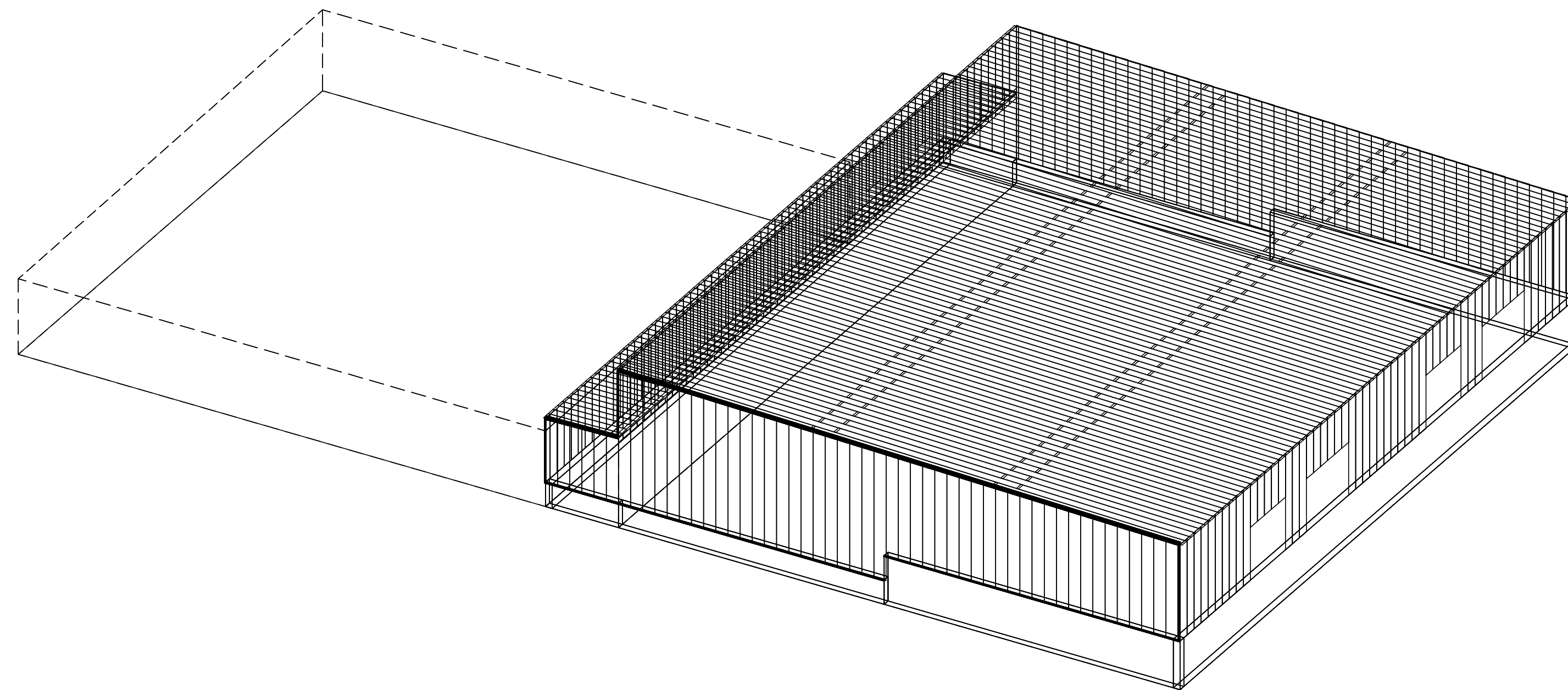
LIVE LOADS AND RAINFALL  
Roof Live Load 20.00 psf (Not Reducible)  
Rainfall: 0.10 inches per hour  
CONCRETE FOUNDATIONS Compressive Strength (Min.) - f'c: 3000 psi

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



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**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

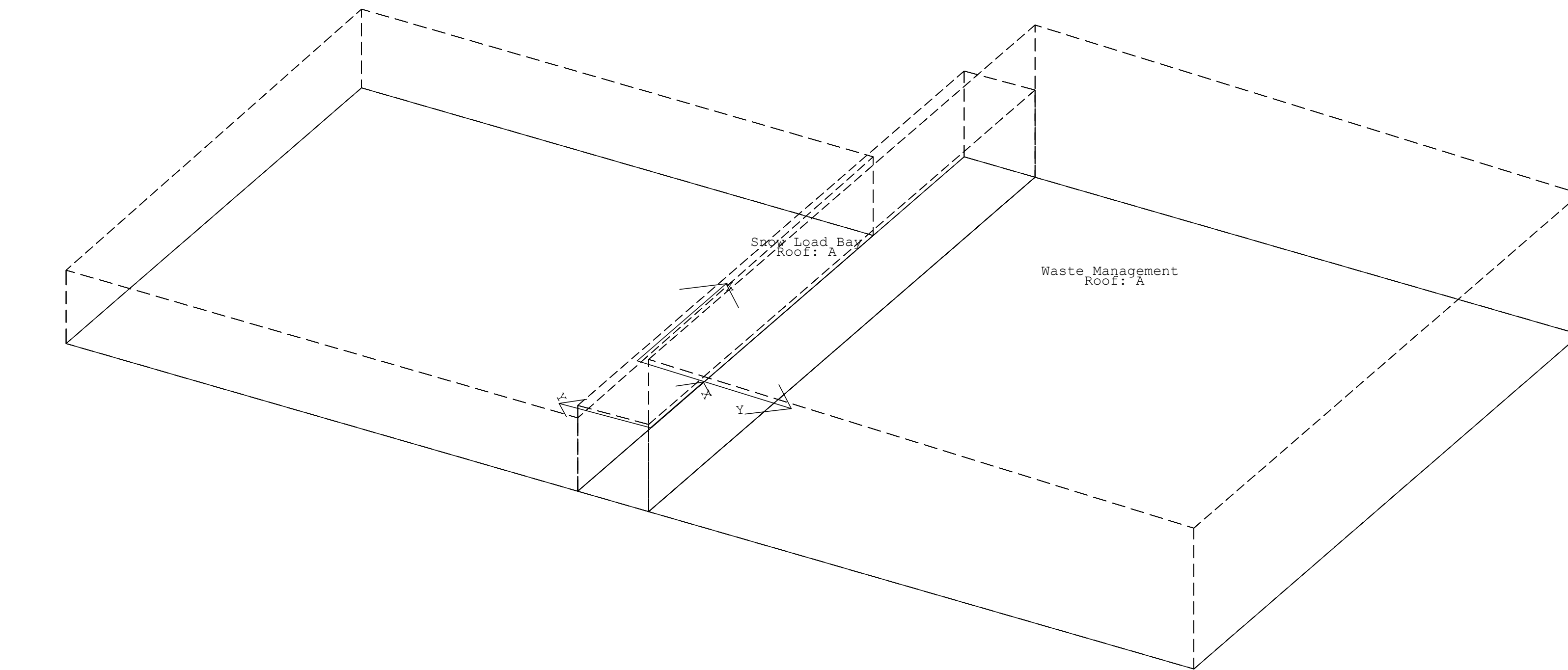
Transverse Direction Parameters  
 System NOT detailed for Seismic  
 Redundancy Factor: Rho: 1.00  
 Fundamental Period: Ta: 0.2992  
 R-Factor: 3.00  
 Overstrength Factor: Omega: 2.50  
 Deflection Amplification Factor: Cd: 3.00  
 Base Shear: V: 0.0697 x W

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

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



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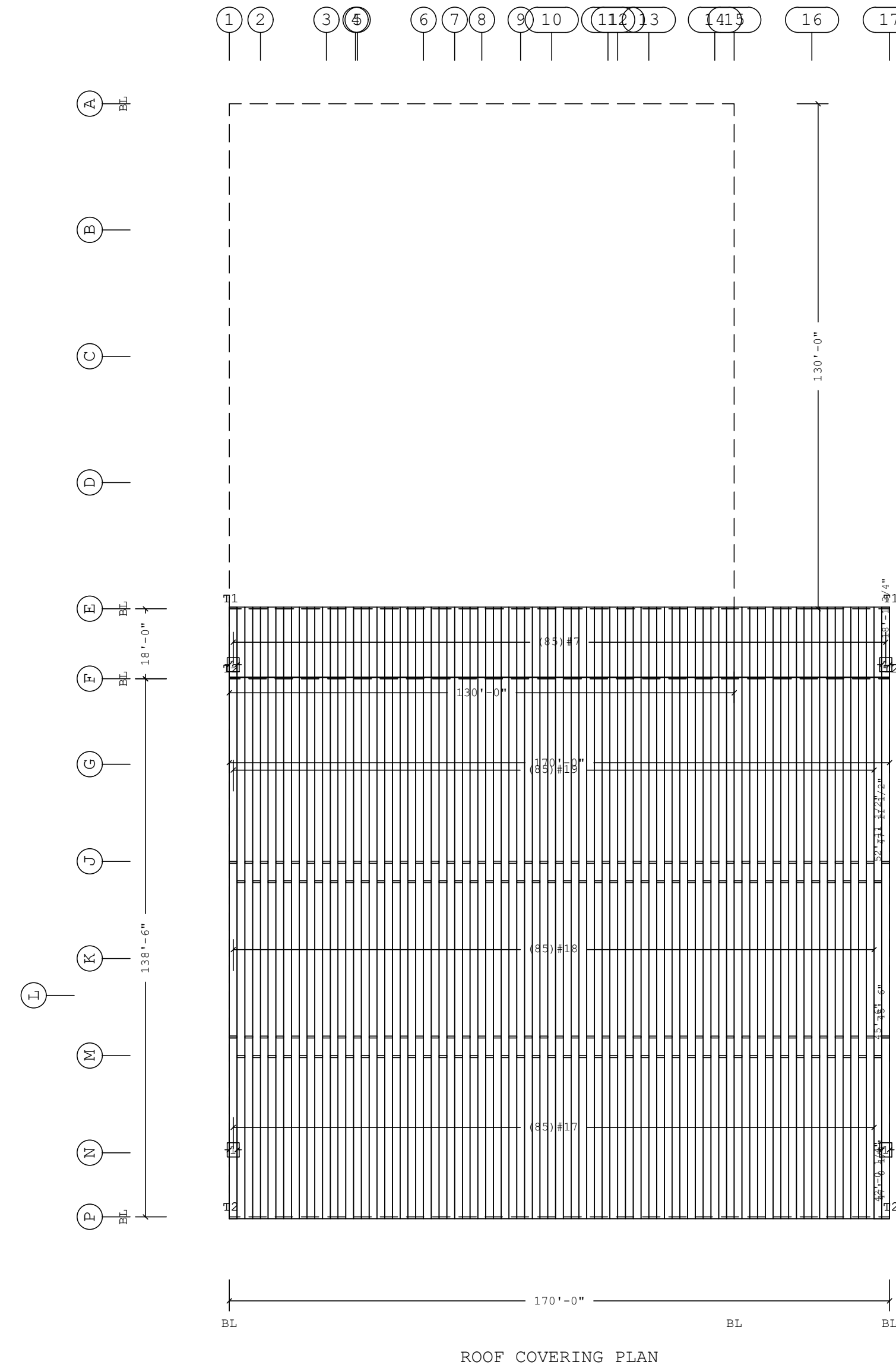


Covering Schedule									
Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color
#7	85	18'-1 3/4"			MR24	24	40	Z	AZ
#17	43	47'-0 1/4"	42	42'-0 1/4"	MR24	24	13	Z	AZ
#18	43	45'-6"	42	45'-6"	MR24	24	10	Z	AZ
#19	43	47'-11 1/2"	42	52'-11 1/2"	MR24	24	11	Z	AZ

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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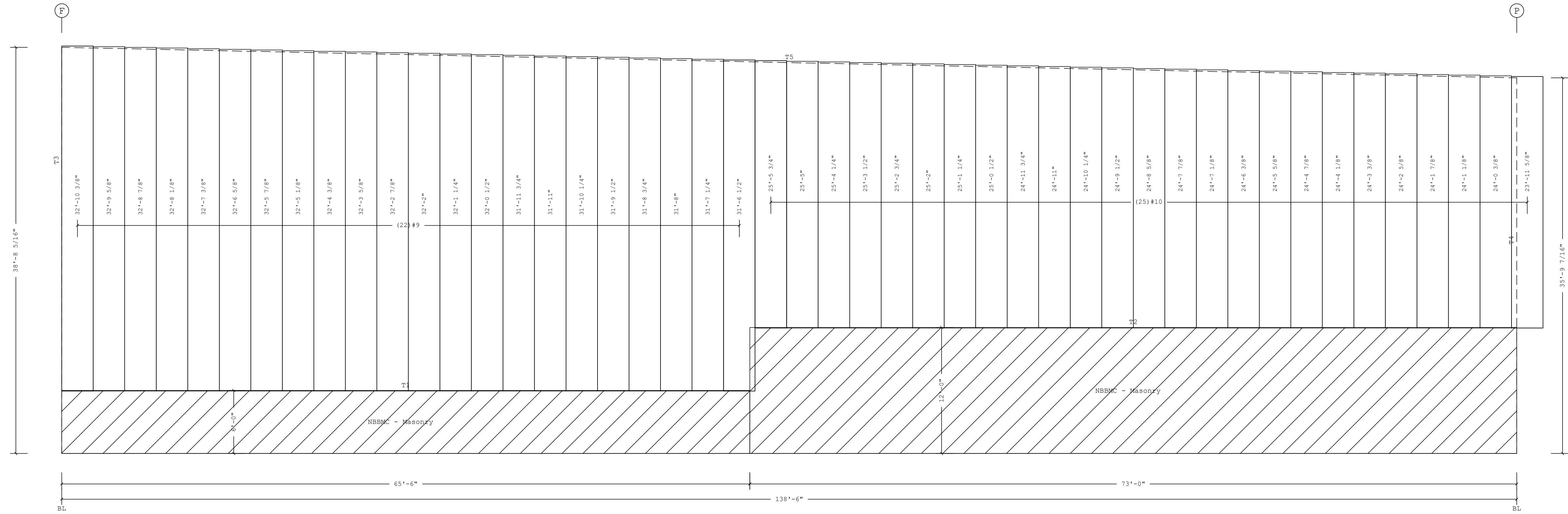
<b>D</b>	<b>BUTLER MANUFACTURING</b> 1540 GENESSEE ST. KANSAS CITY, MO 64102			<b>ROOF COVERING PLAN</b>	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: CWB Contractors Inc
					CUSTOMER:
					LOCATION: Avon, Massachusetts
					PROJECT: Waste Management
					BUILDER'S PO#:
DRAWING SCALE: NTS				 Butler Manufacturing 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
#9	22	SHF	32'-10 3/8"	26	1	K	TD	-3/4"	Left to Right
#10	25	SHF	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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<b>D</b>	<b>BUTLER MANUFACTURING</b> 1540 GENESSEE ST. KANSAS CITY, MO 64102			<b>Waste Management -Covering at 1</b>	
	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

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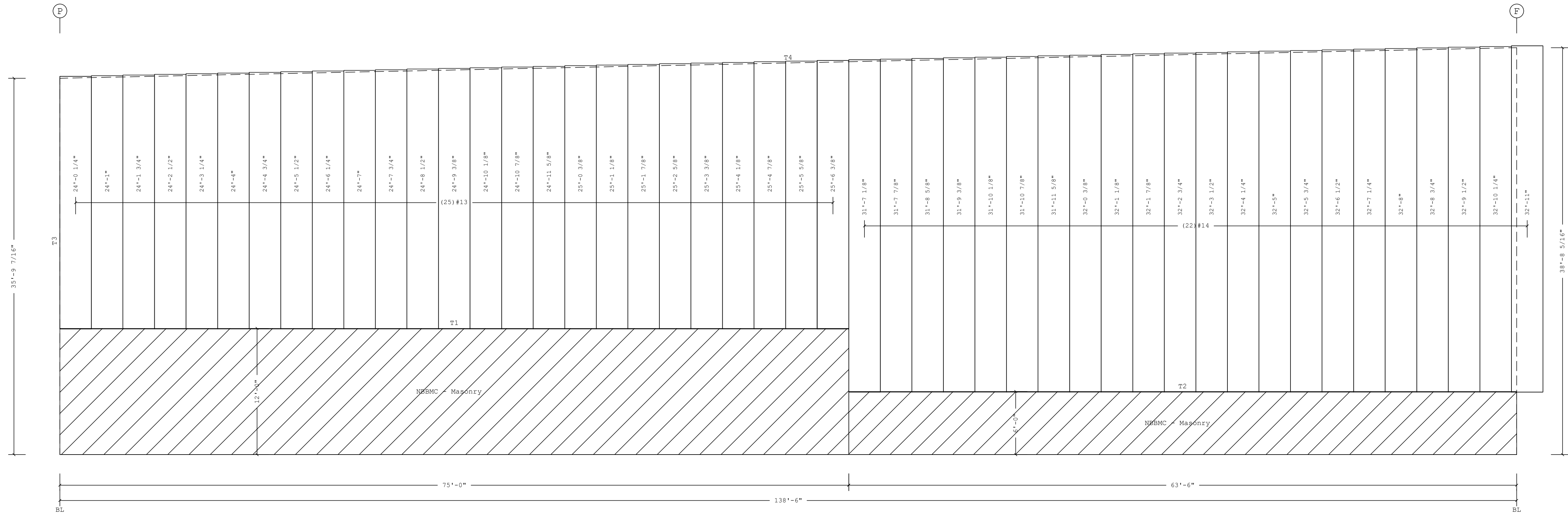
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Covering Schedule							
Id	Qty	Type	Start Length	Gage	OP	Fin.	Color
#13	25	SHF	24'-0 1/4"	26	1	K	TD
#14	22	SHF	31'-7 1/8"	26	1	K	TD

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-081180, P-081505
T2	P-081180, P-081505
T3	P-081180, P-081185
T4	P-081167, P-081183, P-GAI


Shape Name = Waste Management , Wall = 3

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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	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: CWB Contractors Inc
					CUSTOMER:
					LOCATION: Avon, Massachusetts
DRAWING SCALE: NTS				PROJECT: Waste Management	BUILDER'S PO#:
				 Butler Manufacturing VPC VERSION: ADVNXT 4.3	
				JOB #:	DATE: 3/30/2021
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