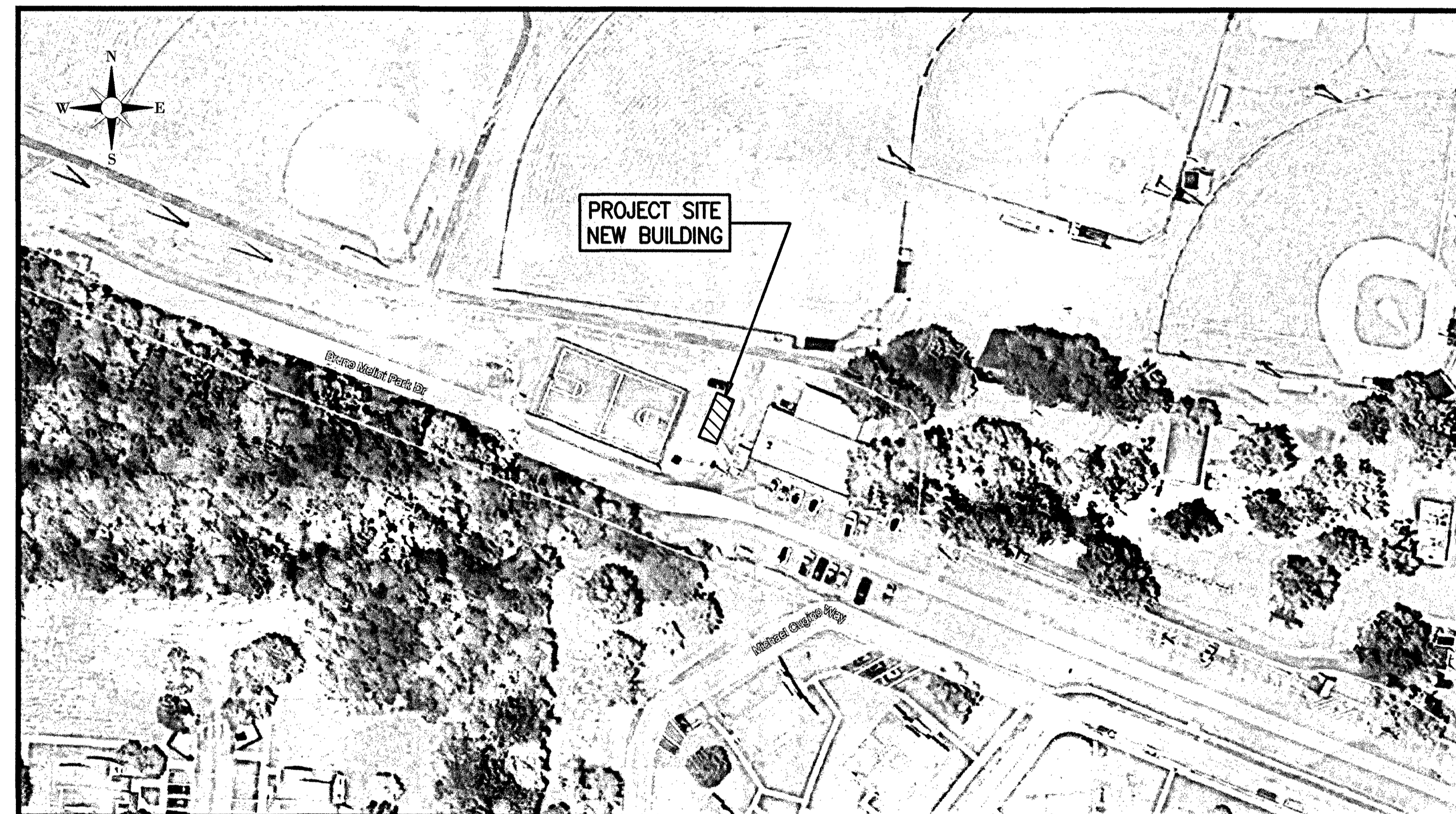


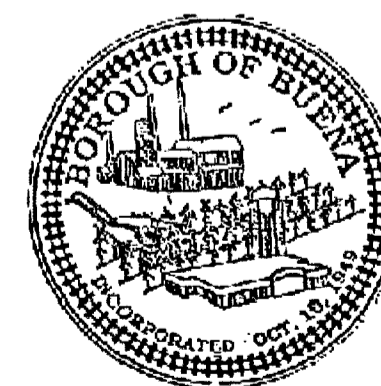
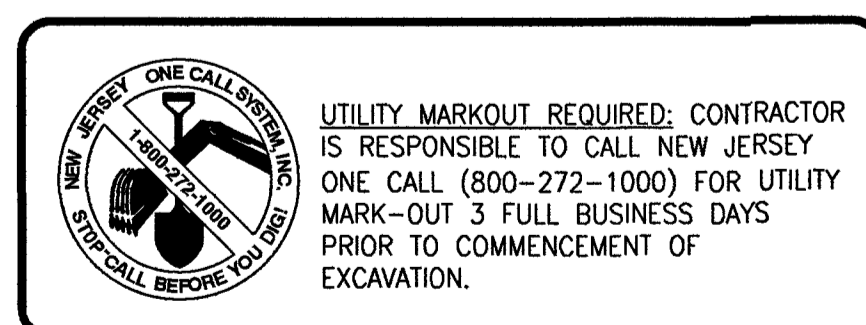
NJDCA F.Y.2023 LOCAL RECREATION IMPROVEMENT GRANT (LRIG) FOR THE RESTROOM BUILDING AT BRUNO MELINI PARK

UTILITIES	
PUBLIC WORKS:	BOROUGH OF BUENA STREETS AND ROADS WILLIAM NIMOHAY, SUPERVISOR 616 CENTRAL AVENUE MINOTOLA, NJ 08341 856-697-9393
SEWER:	BOROUGH OF BUENA MUNICIPAL UTILITIES AUTHORITY ALAN ZORZI, SUPERINTENDENT 616 CENTRAL AVENUE MINOTOLA, NJ 08341 856-697-1784
WATER:	BOROUGH OF BUENA MUNICIPAL UTILITIES AUTHORITY ALAN ZORZI, SUPERINTENDENT 616 CENTRAL AVENUE MINOTOLA, NJ 08341 856-697-1784
ELECTRIC:	ATLANTIC CITY ELECTRIC COMPANY SCOT HOOVER 2542 FIRE ROAD EGG HARBOR TOWNSHIP, NJ 08234 609-432-3383
CABLE:	COMCAST CABLE WYATT PARRISH 1250 HADDONFIELD BERLIN ROAD CHERRY HILL, NJ 08034 484-368-4391
GAS:	SOUTH JERSEY GAS COMPANY STEVE OWENS 1 SOUTH JERSEY PLACE ATLANTIC CITY, NJ 08401 609-500-0617
TELEPHONE:	VERIZON ENGINEERING DEPARTMENT RYAN P. LOCHONIC 10 TANSBORO ROAD, FLOOR 2 BERLIN, NJ 08009 609-204-2129
COUNTY ROADS:	ATLANTIC COUNTY PUBLIC WORKS GREG BROOKINS RT. 9 AND DOLPHIN AVENUE NORTHFIELD, NJ 08225 609-645-5898
STATE ROADS:	NEW JERSEY DEPARTMENT OF TRANSPORTATION ONE EXECUTIVE CAMPUS ROUTE 70 WEST CHERRY HILL, NJ 08002 856-414-8401
RAILROAD:	SOUTHERN RAILROAD OF NEW JERSEY STEVE KERR 609-444-9228 EMAIL: TRAINJCT@AOL.COM



PROJECT LOCATION MAP

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3	EXISTING CONDITIONS AND DEMOLITION PLAN
4	PROPOSED SITE PLAN & GRADING PLAN
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A-1	FLOOR PLAN, CEILING PLAN, SCHEDULES, FIXTURE ELEVATIONS & DETAILS
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PLUMBING PLANS	
P1.1	PLUMBING COVER SHEET
P2.1	PLUMBING FLOOR PLAN



BOROUGH OF BUENA ATLANTIC COUNTY, NEW JERSEY

2019 N.J.D.O.T. STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE
CONSTRUCTION SHALL GOVERN

ARCHITECT
OSK DESIGN PARTNERS, PA
475 WHITE HORSE PIKE
COLLINGSWOOD, NJ 08107
PH: 856-854-0580

MECHANICAL, ELECTRICAL & PLUMBING ENGINEERS
BD ENGINEERING
44 MAIN STREET
FARMINGDALE, NEW JERSEY 07727
PH: 732-886-5432

TITLE SHEET
DeBlasio & Associates
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
WILDWOOD, NJ 08260
PHONE (609) 854-3311
FAX (609) 854-4323
WWW.DEBLASIOASSOC.COM
Certification of Authorization No. 24GA28284900

NJDCA F.Y.2023 LOCAL RECREATION IMPROVEMENT GRANT (LRIG) FOR THE RESTROOM BUILDING AT BRUNO MELINI PARK
BOROUGH OF BUENA
ATLANTIC COUNTY, NEW JERSEY

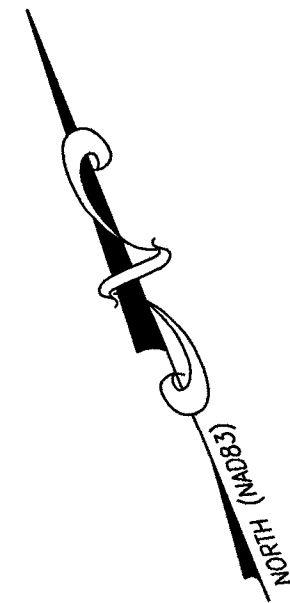
Design:	Drawn:	Check:	Date:
J.M.	J.M.	MAD	09/16/2024

Marc A. DeBlasio 09/16/2024
MARC A. DEBLASIO, PE DATE

NO.	DATE	APPR.	REVISION

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Scale:	Job No.:	Sheet No.:	Total:
AS NOTED	BCC-013	1	6



EXISTING CONCRETE SIDEWALK TO BE REMOVED BY PUBLIC WORKS DEPARTMENT PRIOR TO PROJECT START DATE.

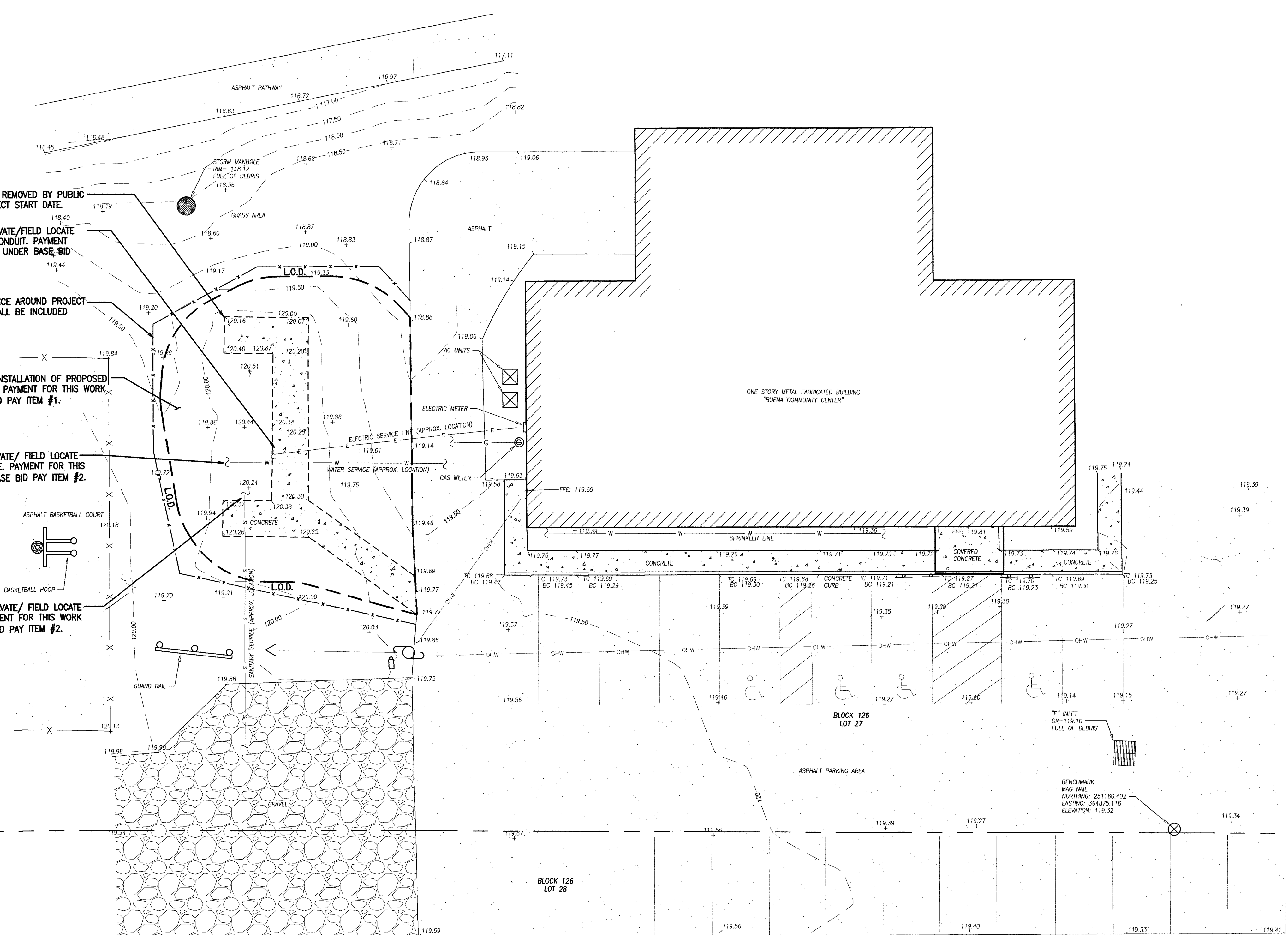
CONTRACTOR SHALL CAREFULLY EXCAVATE/FIELD LOCATE EXISTING ELECTRICAL SERVICE LINE CONDUIT. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #2.

CONTRACTOR SHALL INSTALL SILT FENCE AROUND PROJECT LIMITS. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #1.

RE-GRADE AREA AS REQUIRED FOR INSTALLATION OF PROPOSED BATHROOM BUILDING AND SIDEWALKS. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #1.

CONTRACTOR SHALL CAREFULLY EXCAVATE/ FIELD LOCATE EXISTING CAPPED WATER SERVICE LINE. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #2.

CONTRACTOR SHALL CAREFULLY EXCAVATE/ FIELD LOCATE EXISTING SEWER SERVICE LINE. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #2.

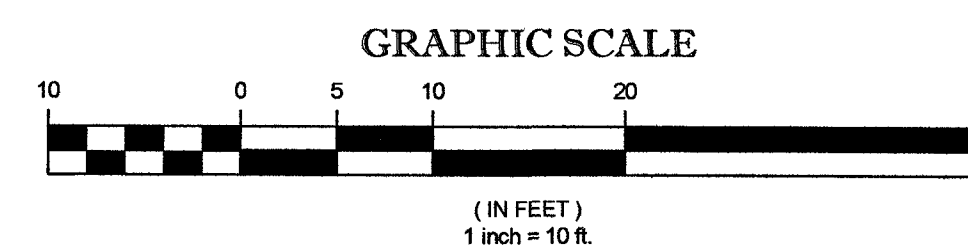


EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE : 1"=10'

SURVEY NOTES:

- EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGEL, N.J.P.L.S. NO. 35833, COMPLETED ON 03/18/2024.
- ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
- PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE BOROUGH OF BUENA, ATLANTIC COUNTY, NEW JERSEY. SAID LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.



EXISTING CONDITIONS AND DEMOLITION PLAN

DeBlasio & Associates
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
WILDWOOD, NJ 08260
PHONE (609) 854-3311
FAX (609) 854-4323
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BOROUGH OF BUENA
ATLANTIC COUNTY, NEW JERSEY

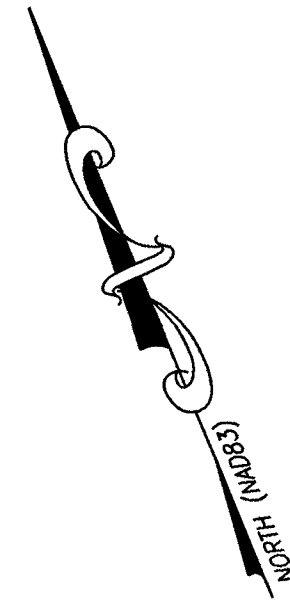
Design: JUM Drawn: JUM Check: MAD Date: 09/16/2024

NO. DATE APPR. REVISION

Marc A. DeBlasio 09/16/2024
MARC A. DEBLASIO, PE DATE

Scale: AS NOTED Job No.: B8C-013 Sheet No.: 3 Total: 6

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PROVIDE A.D.A. COMPLIANT CONCRETE SIDEWALKS (MAX. 2% CROSS SLOPE) FOR ACCESS TO THE BATHROOM BUILDING. CONCRETE SIDEWALK IS APPROXIMATELY 35 S.Y. AREA. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #1.

RE-GRADE AREA WITHIN LIMITS OF DISTURBANCE. INSTALL TOPSOIL AND SODDING IN AREA (APPROXIMATELY 200 S.Y.). CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION FROM SODDING TO SIDEWALK, NO-TRIP STEPS. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #1.

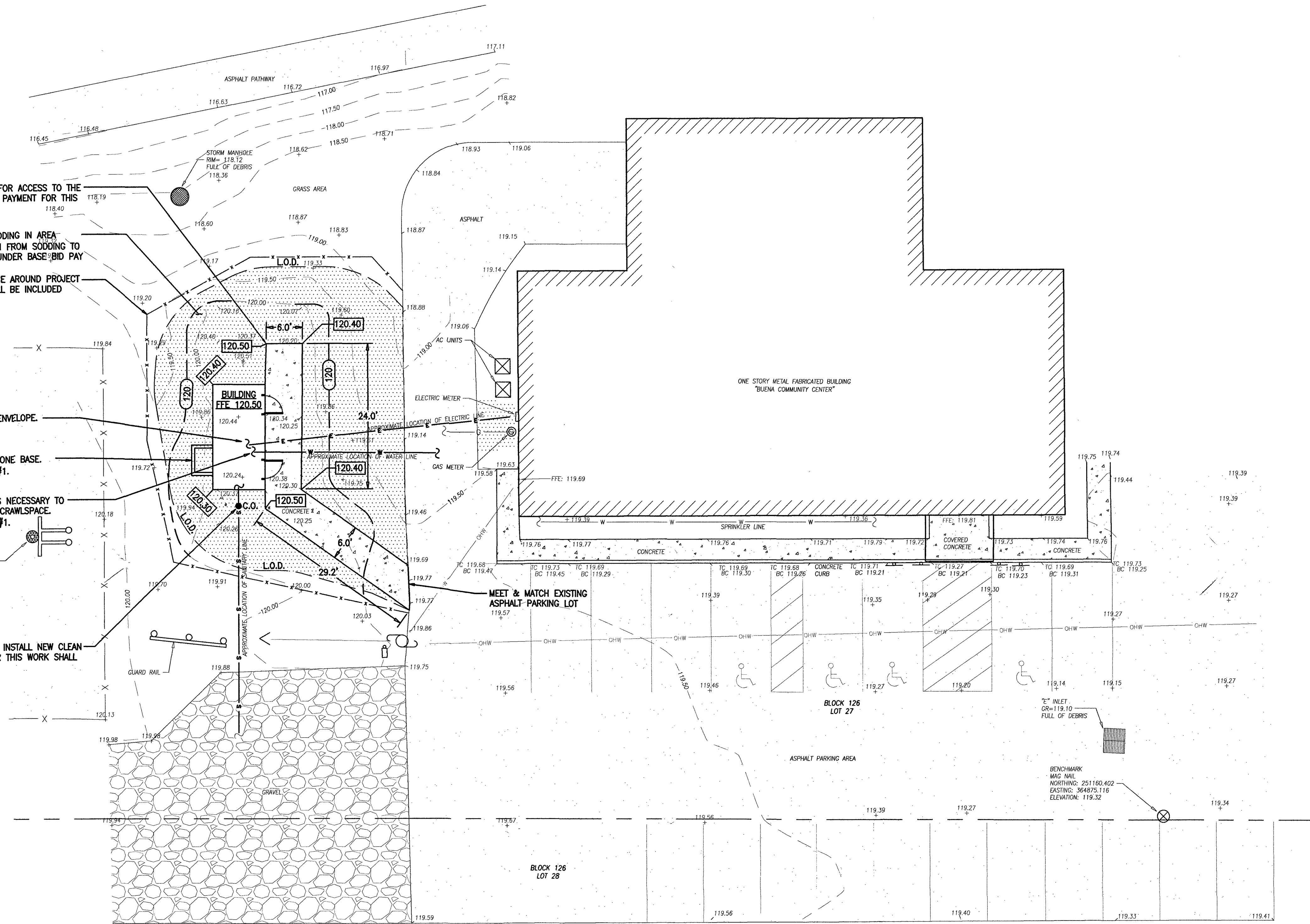
CONTRACTOR SHALL INSTALL SILT FENCE AROUND PROJECT LIMITS. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #1.

CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE LINE INTO THE BUILDING ENVELOPE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN BASE BID PAY ITEM #1.

CONTRACTOR SHALL INSTALL MINIMUM 3'X4' ACCESS WELL WITH 6" THICK STONE BASE. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #1.

CONTRACTOR SHALL MAKE CONNECTION TO EXISTING WATER SERVICE LINE AS NECESSARY TO BRING WATER SERVICE LINE INTO THE BUILDING ENVELOPE AND CAP INSIDE CRAWLSPACE. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #1.

CONTRACTOR SHALL MAKE CONNECTION TO EXISTING SANITARY SEWER LINE, INSTALL NEW CLEAN OUT, AND STUB SERVICE LINE INTO THE BUILDING ENVELOPE. PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER BASE BID PAY ITEM #1.

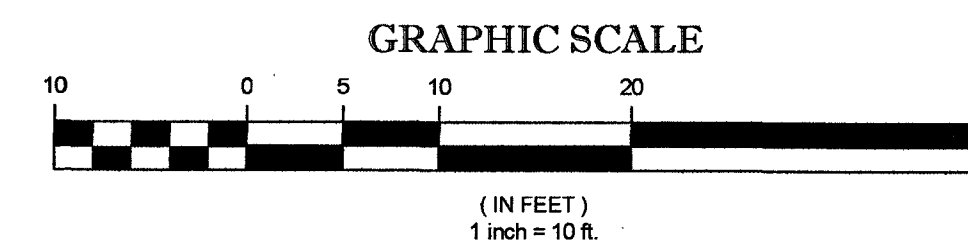


PROPOSED SITE PLAN

SCALE : 1"=10'

SURVEY NOTES:

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PROPOSED SITE PLAN & GRADING PLAN

DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
WILDWOOD, NJ 08260
PHONE (609) 854-3311
FAX (609) 854-4323
WWW.DEBLASIOASSOC.COM
Certification of Authorization No. 246A28284900

NJDCA F.Y.2023 LOCAL RECREATION IMPROVEMENT GRANT (LRIG) FOR THE RESTROOM BUILDING AT BRUNO MELINI PARK
BOROUGH OF BUENA
ATLANTIC COUNTY, NEW JERSEY

Design: JMM Drawn: JMM Check: MAD Date: 09/16/2024

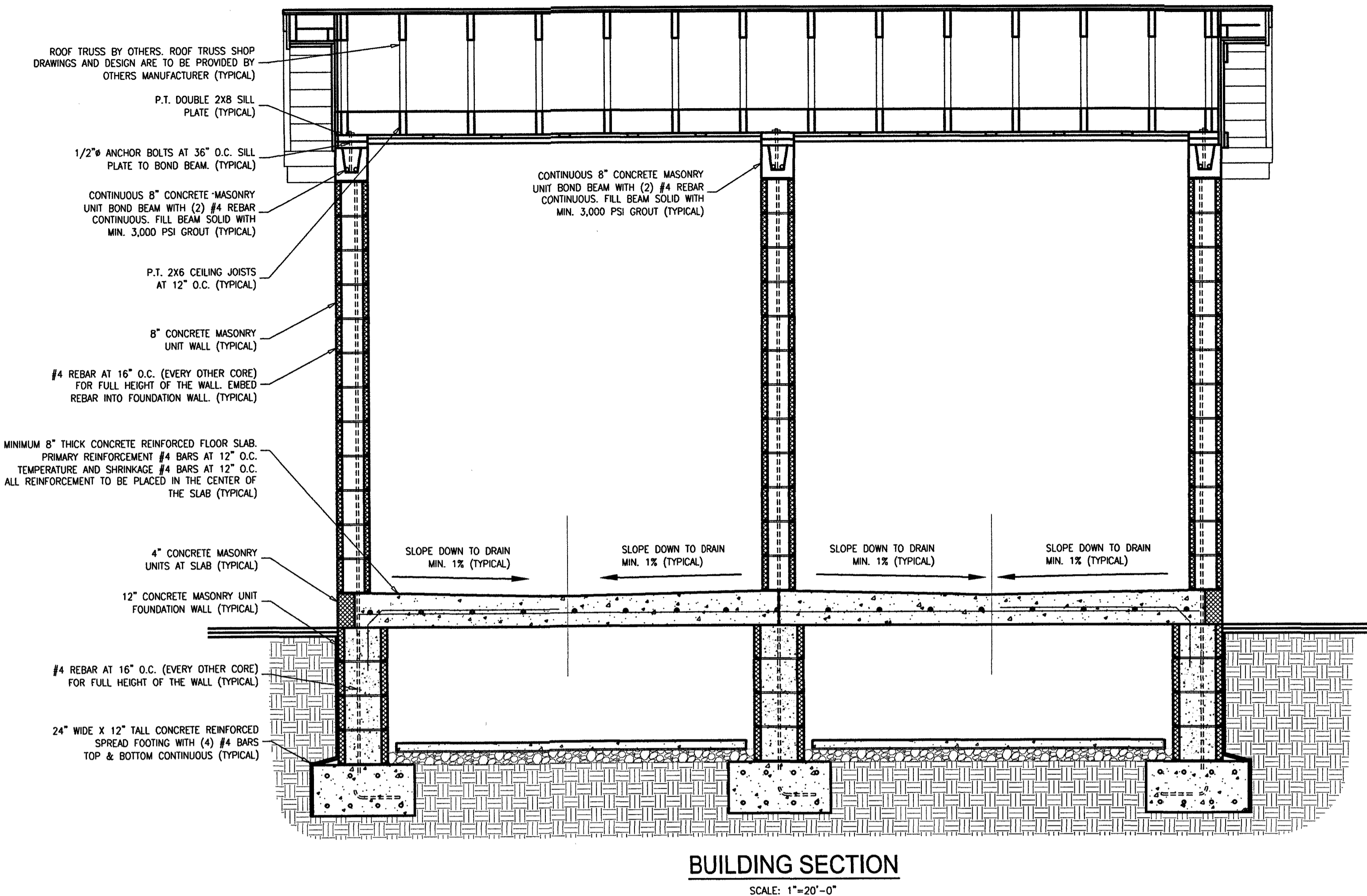
NO. DATE APPR. REVISION

Marc DeBlasio 09/16/2024
MARC A. DEBLASIO, PE DATE

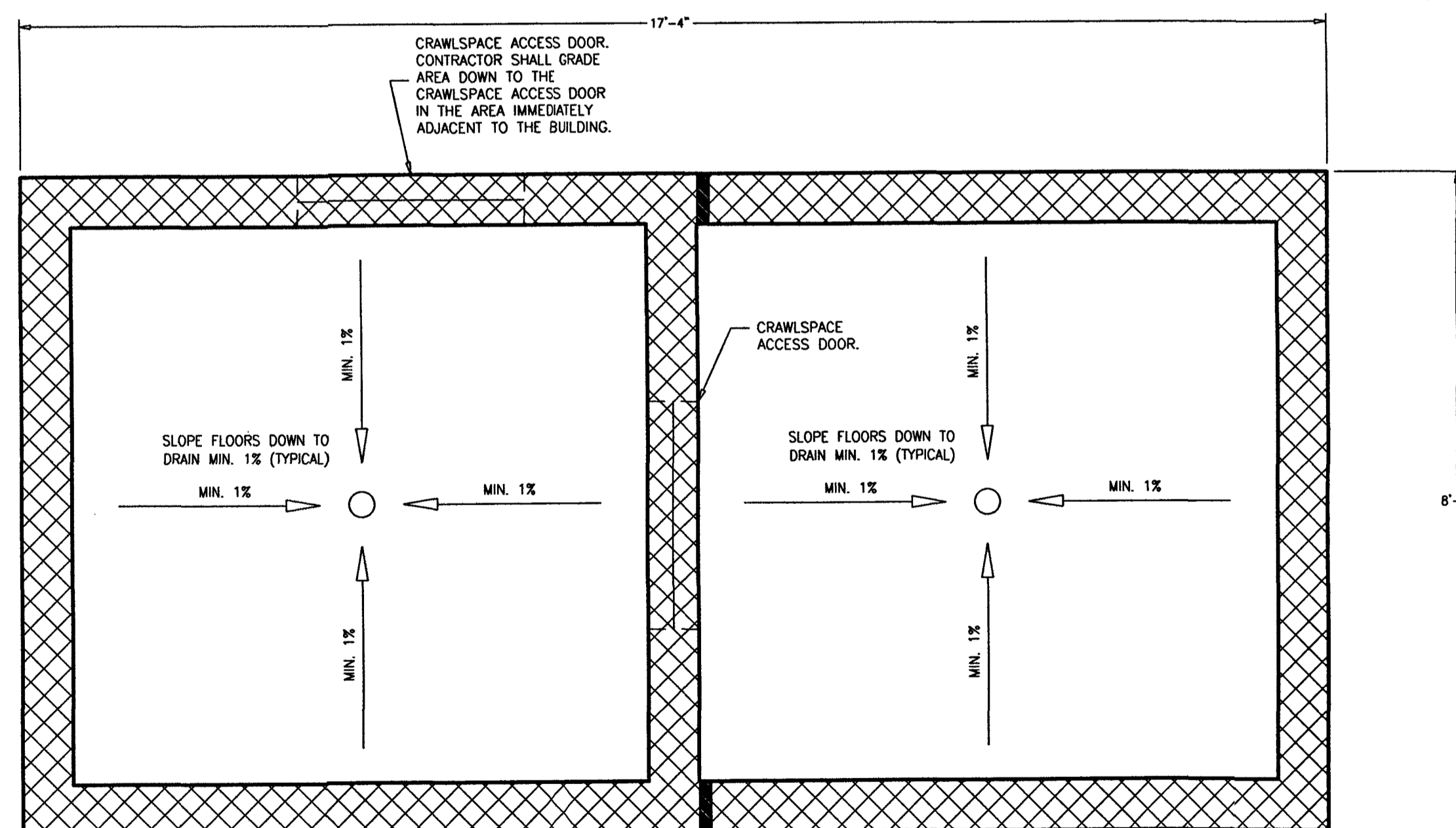
New Jersey License No. 41599

Scale: AS NOTED Job No.: BCC-013 Sheet No.: 4 Total: 6

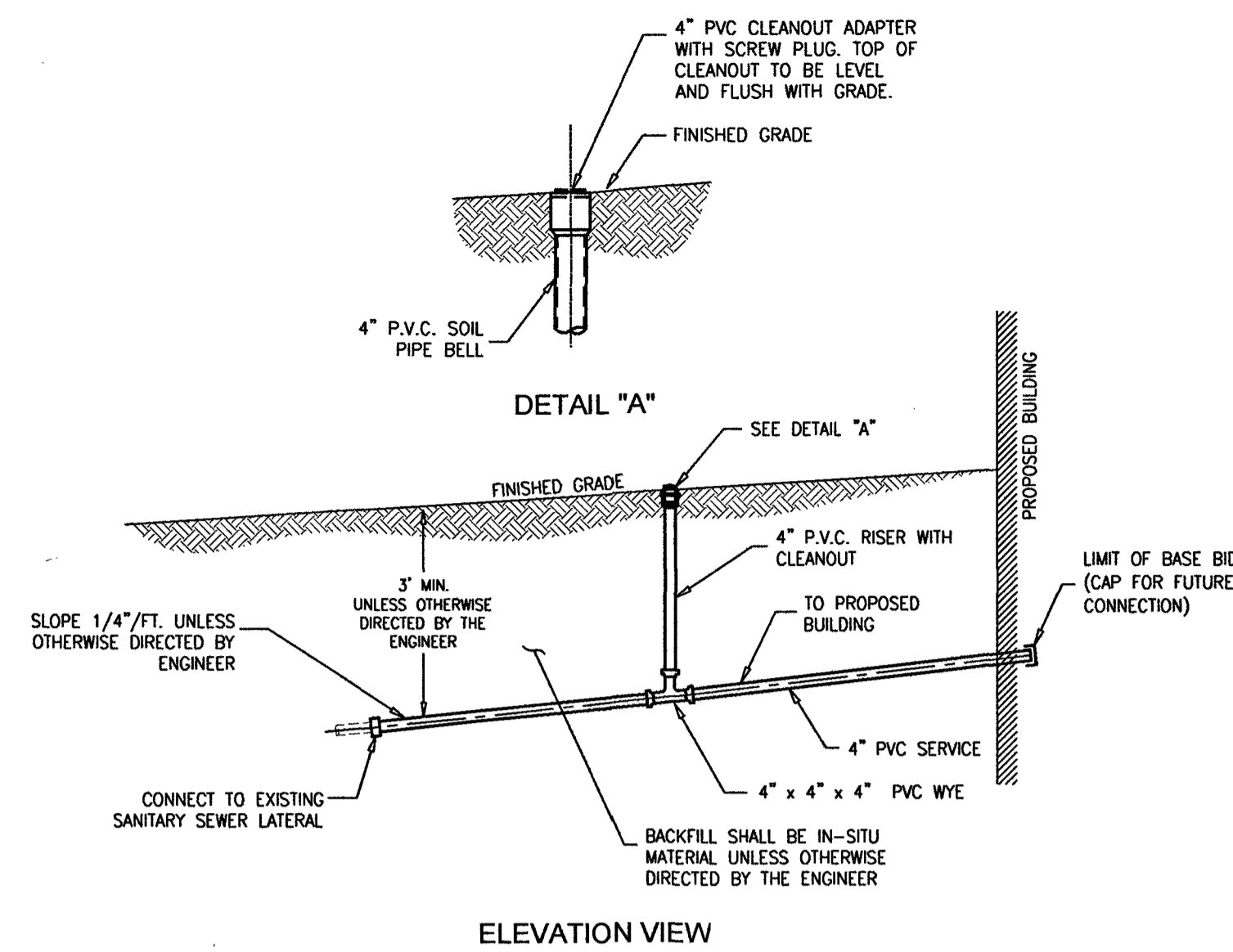
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BUILDING SECTION
SCALE: 1"=20'-0"

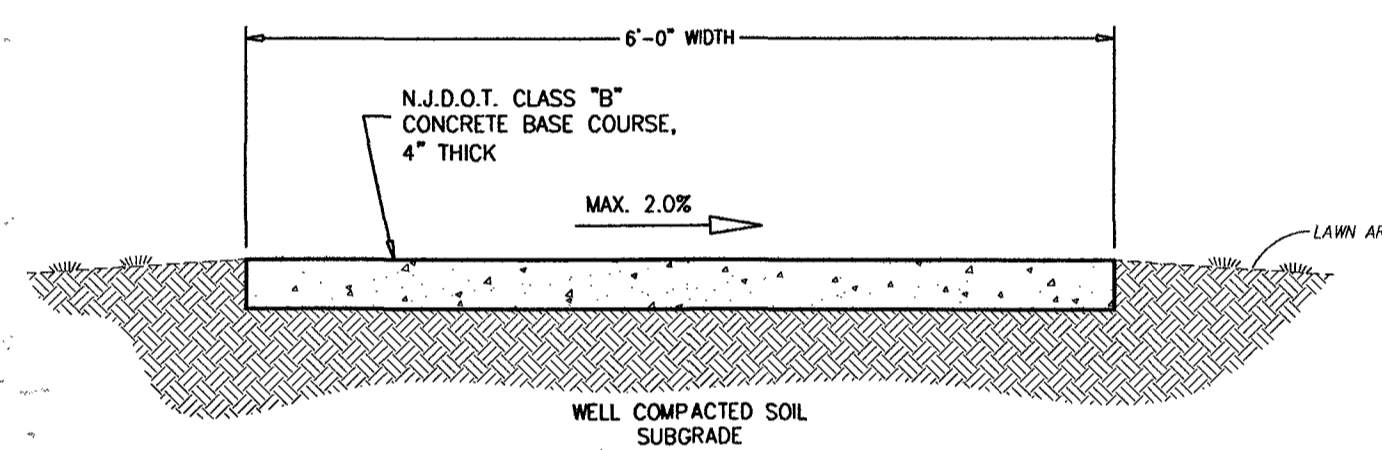


BUILDING PLAN
SCALE: 1"=20'-0"



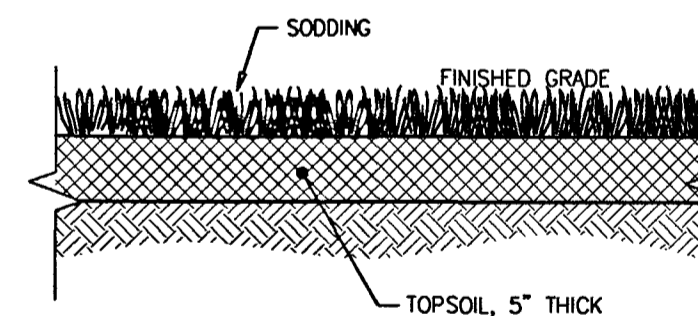
NOTES:
1. ALL SERVICES TO P.V.C. PIPE SHALL BE SDR-35 CONFORMING TO ASTM-D-3034.

SANITARY SEWER SERVICE LATERAL
N.T.S.

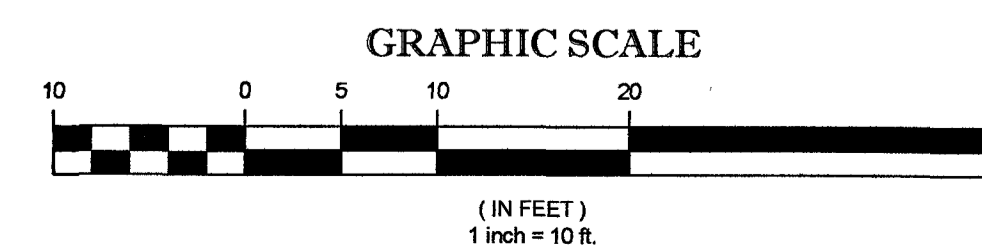


NOTES:
1. CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 607 OF THE N.J.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS.
2. PITCH SIDEWALK AWAY FROM BUILDING.

CONCRETE SIDEWALK DETAIL
N.T.S.



GRASS AREA SECTION
N.T.S.



NO.	DATE	APPR.	REVISION

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CONSTRUCTION DETAILS

DeBlasio & Associates
ENGINEERS, SURVEYORS AND PLANNERS

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NJDCA F.Y. 2023 LOCAL RECREATION IMPROVEMENT GRANT (LRIG) FOR THE RESTROOM BUILDING AT BRUNO MELINI PARK
BOROUGH OF BUENA
ATLANTIC COUNTY, NEW JERSEY

Design:	Drawn:	Check:	Date:
JIM	JIM	MAD	09/16/2024

Marc A. DeBlasio 09/16/2024
MARC A. DEBLASIO, PE DATE

New Jersey License No. 41599

Scale:	Job No.:	Sheet No.:	Total:
AS NOTED	88C-013	5	6

SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREA THAT WOULD BE LEFT EXPOSED FOR MORE THAN TEN (10) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE NJ STANDARDS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NJ STANDARDS.
- STABILIZATION SPECIFICATIONS:**
 - TEMPORARY SEEDING AND MULCHING:**
 - LIME - 90 LBS./1,000 SF GROUND LIMESTONE; FERTILIZER - 14 LBS./1,000 SF; 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4"
 - SEED - PERENNIAL RYEGRASS 100 LBS./ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF. TO BE APPLIED ACCORDING TO THE NJ STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
 - PERMANENT SEEDING AND MULCHING:**
 - LIME - 90 LBS./1,000 SF GROUND LIMESTONE; FERTILIZER - 14 LBS./1,000 SF; 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4"
 - SEED - PERENNIAL RYEGRASS 40 LBS./ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF. TO BE APPLIED ACCORDING TO THE NJ STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
- TEMPORARY BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS IN ACCORDANCE WITH SECTION 4.21 OF THE NJ STANDARDS.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM-WATER RUN-OFF IS DIRECTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.
- STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY, DRAINAGE FACILITY, THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE.
- A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 2 1/2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' X 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
- MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- ALL CATCH BASIN INLETS WILL BE PROTECTED WITH A CRUSHED STONE OR FABRIC FILTER (FILTER DETAILS APPEAR ON THE PLAN).
- ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC (SEE DETAIL).
- THE CAPE/ATLANTIC SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
- THE CAPE/ATLANTIC SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON OR OFF-SITE EROSION PROBLEMS DURING CONSTRUCTION.

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

- SITE PREPARATION**
 - GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
 - INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- SEEDBED PREPARATION**
 - APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

 - PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.
 - WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.
 - INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AS ABOVE.
 - SOILS HIGH ON SULFIDES OR HAVING A pH OF 4 OR LESS SHOULD BE MULCHED ONLY.
- SEEDING**
 - SEE TEMPORARY SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
 - APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED. SEED SHALL BE INCORPORATED INTO THE SOIL BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED SOIL.
 - AFTER SEEDING, FIRING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.
- MULCHING**

MULCHING IS REQUIRED ON ALL SEEDING.

 - MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRUMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.
 - SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
 - MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
 - PEG AND TWINE - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
 - MULCH NETTING - STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
 - CRUMPER(MULCH ANCHORING TOOL) - A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
 - WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

TEMPORARY SEEDING MIXTURE

THIS SEEDING MIXTURE IS COMPOSED OF A SINGLE SPECIES WHICH GERMINATES QUICKLY IN ORDER TO REDUCE SOIL EROSION UNTIL A PERMANENT VEGETATIVE COVER CAN BE ESTABLISHED. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

%	COMMON NAME	BOTANICAL NAME
100%	PERENNIAL RYEGRASS	LOLIUM PERENNE

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (4) POUNDS/1000 SQUARE FEET OR 160 POUNDS/ACRE.

THE OPTIMAL SEEDING DATES FOR PERENNIAL RYEGRASS FOR CAPE-ATLANTIC REGION ARE 2/15 - 4/30 AND 8/15 - 10/30. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

- SITE PREPARATION**
 - GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MAINTENANCE.
 - INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- SEEDBED PREPARATION**
 - APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	4	180
SANDY LOAM, LOAM, SILT LOAM	3	135
LOAMY SAND, SAND	2	90

 - PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.
 - WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COURSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
 - REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLOGS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
 - INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
- SEEDING**
 - SEE PERMANENT SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
 - APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED. SEED SHALL BE INCORPORATED INTO THE SOIL BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED SOIL.
 - AFTER SEEDING, FIRING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.
- MULCHING**

MULCHING IS REQUIRED ON ALL SEEDING.

 - MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRUMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.
 - SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
 - MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
 - PEG AND TWINE - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
 - MULCH NETTING - STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
 - CRUMPER(MULCH ANCHORING TOOL) - A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
 - WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- IRRIGATION**
 - IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.
- TOP DRESSING ***
 - SPRING SEEDING WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.
 - FALL SEEDING WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1.

* MIXTURES DOMINATED BY WEEPING LOVEGRASS OR LEGUMES MAY NOT NEED TOPDRESSING.
 * IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THIS FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY.

PERMANENT SEEDING MIXTURE (DRY)

THIS SEEDING MIXTURE IS COMPOSED OF DROUGHT-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS RECLAIM CONSERVATION MIX-DRY FORMULA AS MANUFACTURED BY LOETS INC., BOUND BROOK, NJ 08805, (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

%	COMMON NAME	BOTANICAL NAME
50	CLEMFINE TALL FESCUE	FESTUCA ARUNDINACEA "CLEMFINE"
20	RELIANT HARD FESCUE	FESTUCA LONGIFOLIA "RELIANT"
10	JAMESTOWN CHEWINGS FESCUE	FESTUCA RUBRA VARS. COMMUTATA "JAMESTOWN"
10	PALMER PERENNIAL RYE	LOLIUM PERENNE "PALMER"
5	WHITE CLOVER	TRIFOLIUM REPENS
5	BLACKWELL SWITCHGRASS	PANICUM VIRGATUM "BLACKWELL"

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FIVE (5) POUNDS/1000 SQUARE FEET OR 175 POUNDS/ACRE.

THE OPTIMAL SEEDING DATES FOR MOST COOL SEASON GRASSES FOR CAPE-ATLANTIC REGION ARE 2/15 - 4/30 AND 8/15 - 10/30. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

PERMANENT SEEDING MIXTURE (MOIST)

THIS SEEDING MIXTURE IS COMPOSED OF MOISTURE-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS RECLAIM CONSERVATION MIX-MOIST FORMULA AS MANUFACTURED BY LOETS INC., BOUND BROOK, NJ 08805, (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

%	COMMON NAME	BOTANICAL NAME
55	CLEMFINE TALL FESCUE	FESTUCA ARUNDINACEA "CLEMFINE"
15	NASSAU KENTUCKY BLUEGRASS	POA PRATENSIS "NASSAU"
10	PALMER PERENNIAL RYE	LOLIUM PERENNE "PALMER"
10	LASER POA TRINACRIS	POA TRINACRIS "LASER"
5	STREAKER REDTOP	AGROSTIS ALBA "STREAKER"
5	REED CANARY GRASS	PHALARIS ARUNDINACEA

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FIVE (5) POUNDS/1000 SQUARE FEET OR 220 POUNDS/ACRE.

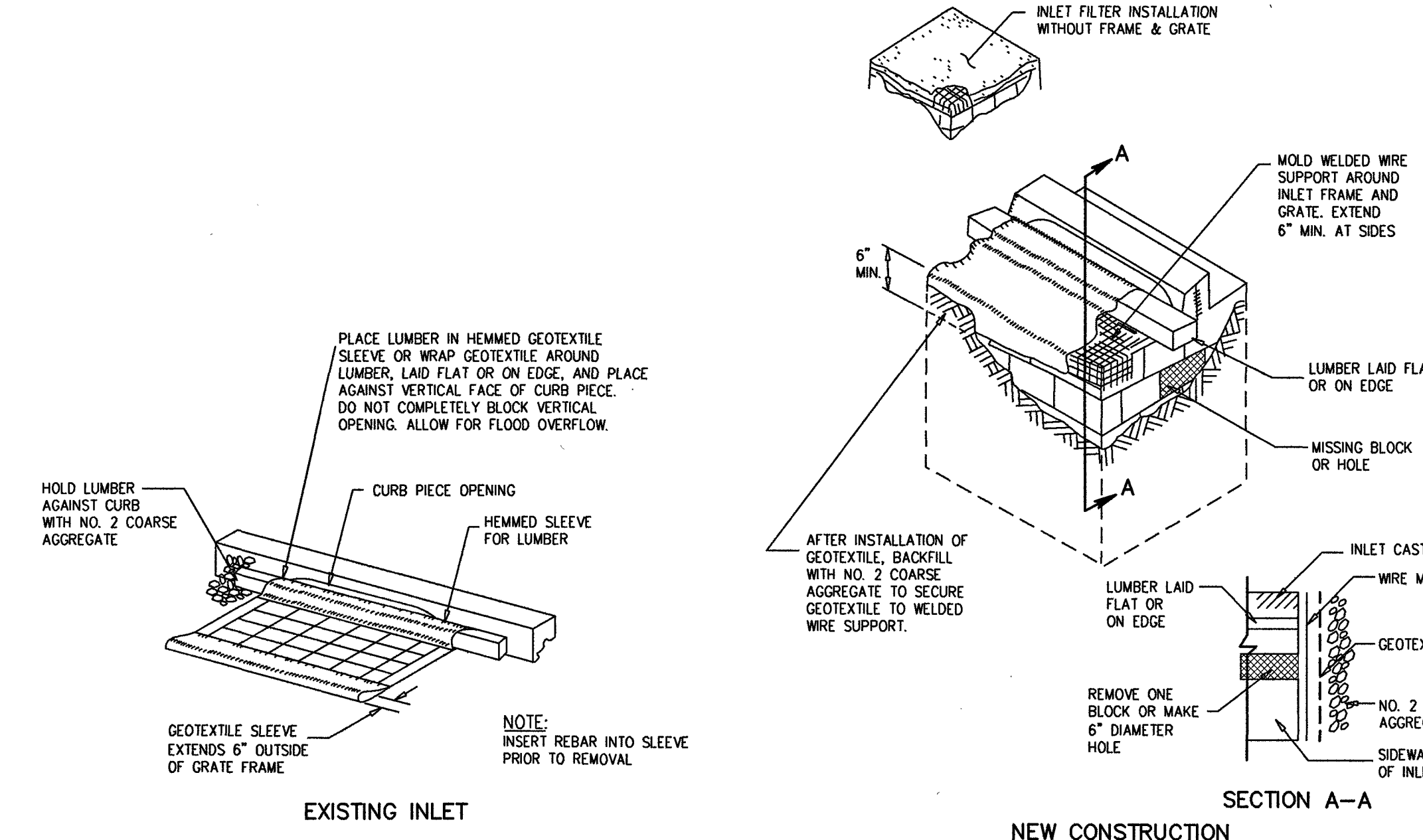
THE OPTIMAL SEEDING DATES FOR MOST COOL SEASON GRASSES FOR CAPE-ATLANTIC REGION ARE 2/15 - 4/30 AND 8/15 - 10/30. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

SPECIAL NOTES

- TEMPORARY STABILIZATION - ALL EXPOSED AREAS NOT TO BE CONSTRUCTED UPON WITHIN 14 DAYS SHOULD RECEIVE TEMPORARY STABILIZATION. THE TEMPORARY SEEDING MIXTURES SHALL BE ANNUAL RYE GRASS AT A RATE OF 4 POUND PER 1000 SQ. FT. AND LIME AT A RATE OF 45 LBS. PER 1000 SQ. FT.
- PERMANENT STABILIZATION - ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED SHOULD BE SEEDED WITHIN 7 DAYS OF FINAL GRADING, ACCORDING TO THE PERMANENT SEEDING SPECIFICATIONS.

TOP SOILING

- TOPSOIL SHOULD BE USED WHERE SOILS ARE: SANDS, GRAVELY SOILS, CLAYS, SILTY CLAYS, VERY SHALLOW, OR WHERE THEY ARE EXTREMELY ACID (LESS THAN PH4.0) OR SALTY (COND- ACTIVITY GREATER THAN 1.0 MILLIMOS PER CENTIMETER); OR WHERE TOPSOIL IS AVAILABLE ON SITE AND ASSURANCE OF IMPROVED VEGETATIVE GROWTH IS DESIRED.
- MATERIALS**
 - TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A pH RANGE OF 5.0-7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMOS PER CENTIMETER). TOPSOIL HAULED IN FROM OFF SITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.
 - STRIPPING AND STOCKPILING**
 - FIELD EXPLORATION SHOULD BE MADE TO DETERMINE QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.
 - STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
 - WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL pH TO 6.5. IN LIEU OF SOIL TESTS, SEE LIME RATE GUIDE IN SEEDBED PREPARATION FOR PERMANENT VEGETATIVE COVER.
 - A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
 - STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
 - STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH TEMPORARY SEEDING STANDARDS PREVIOUSLY DESCRIBED HEREIN.
 - SITE PREPARATION**
 - GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MAINTENANCE.
 - SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT AND LIME, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL pH TO 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.
 - IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, THE SURFACE SHOULD BE SCARIFIED 6" - 12" WHERE THERE HAS BEEN SOIL COMPACTION.
 - APPLYING TOPSOIL**
 - TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY.
 - TOPSOIL SHALL BE APPLIED TO A UNIFORM DEPTH OF 5.0 INCHES (FIRMED IN PLACE).



INLET FILTERS, TYPE 1

DUST CONTROL

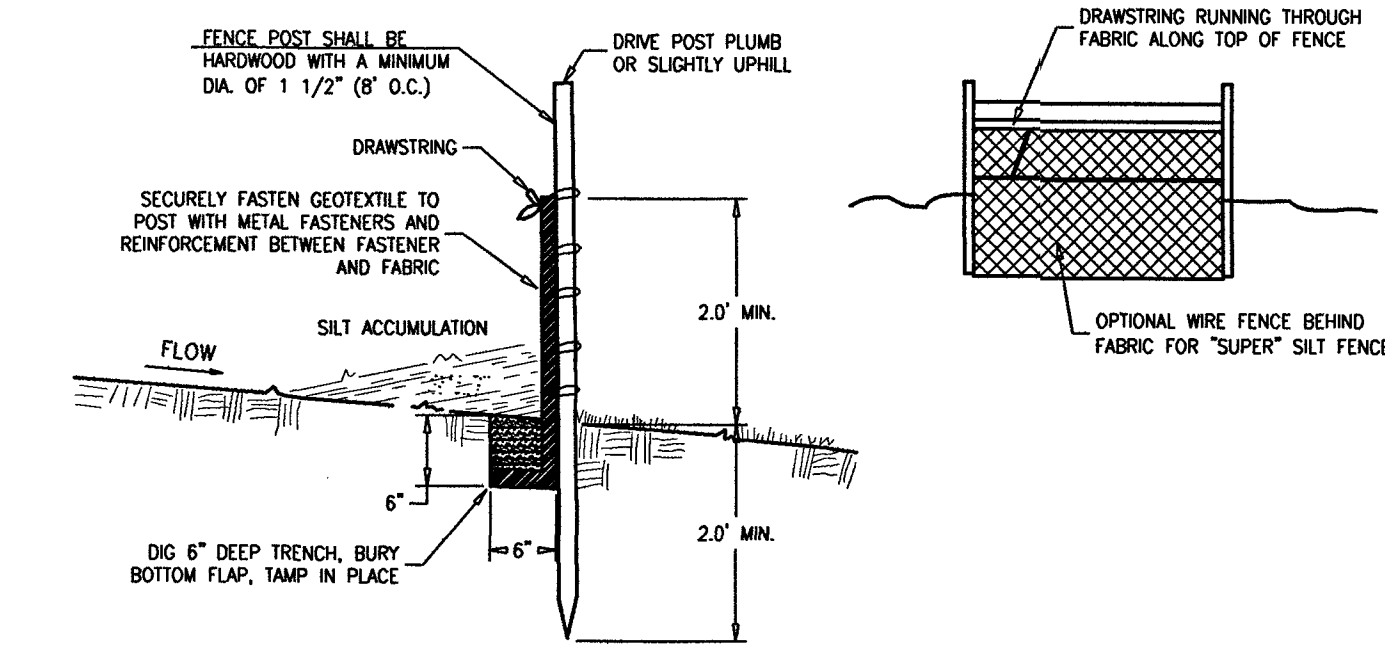
- THE PURPOSE OF DUST CONTROL MEASURES IS TO PREVENT THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-SITE AND OFF-SITE DAMAGE & HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.
 - MULCHES - REVIEW MULCHING NOTES ABOVE.
 - VEGETATIVE COVER - REVIEW NOTES ON TEMPORARY COVER.
 - SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.
- MATERIAL**

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLON/ACRE
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300

 - POLYACRYLAMIDE (PAM) - SPRAY ON APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD, PAGE 26-1.
 - ADULATED SOY BEAN SOAP STICK NONE COARSE SPRAY 1200
- TILLAGE** - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGON PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- SPRINKLING** - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.
- BARRIERS** - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
- STONE** - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

GENERAL NOTES:

- A REPORT OF COMPLIANCE MUST BE OBTAINED FROM THE DISTRICT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY FROM THE MUNICIPALITY. A REQUEST FOR A DISTRICT INSPECTION FOR THE RELEASE OF A REPORT OF COMPLIANCE MUST BE MADE 5 WORKING DAYS IN ADVANCE. THIS APPLIES TO BOTH COMPLETE (FINAL) AND CONDITIONAL (TEMPORARY) CERTIFICATES. ALL STREETS AND UNITS MUST BE PROPERLY IDENTIFIED. A REPORT OF COMPLIANCE WILL NOT BE RELEASED FOR A UNIT IF IT CAN NOT BE IDENTIFIED. IDENTIFY ALL UNITS AT THE SITE BY BLOCK, LOT, AND STREET ADDRESS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- THE CONTRACTOR SHALL REMOVE ANY SEDIMENT THAT MAY BE SPILLED, DROPPED OR TRACKED OFF THE PROJECT SITE. ALL PAVED RIGHT-OF-WAYS ADJACENT TO THE PROJECT SITE MUST BE MAINTAINED IN A CLEAN, SWEPT CONDITION THROUGHOUT CONSTRUCTION.



SILT FENCE DETAIL OR APPROVED EQUAL

- NOTES:**
- EXCAVATE A 6"x6" TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
 - UNROLL THE SILT FENCE GEOTEXTILE AND POSITION THE POLES AGAINST THE BACK(DOWNSTREAM) WALL OF THE TRENCH.
 - LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL.

SOIL EROSION & SEDIMENT CONTROL PLAN

DeBlasio & Associates
 ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
 WILDWOOD, NJ 08260
 PHONE (609) 854-3311
 FAX (609) 854-4323
 WWW.DEBLASIOSSOC.COM
 Certification of Authorization No. 24GA28284900

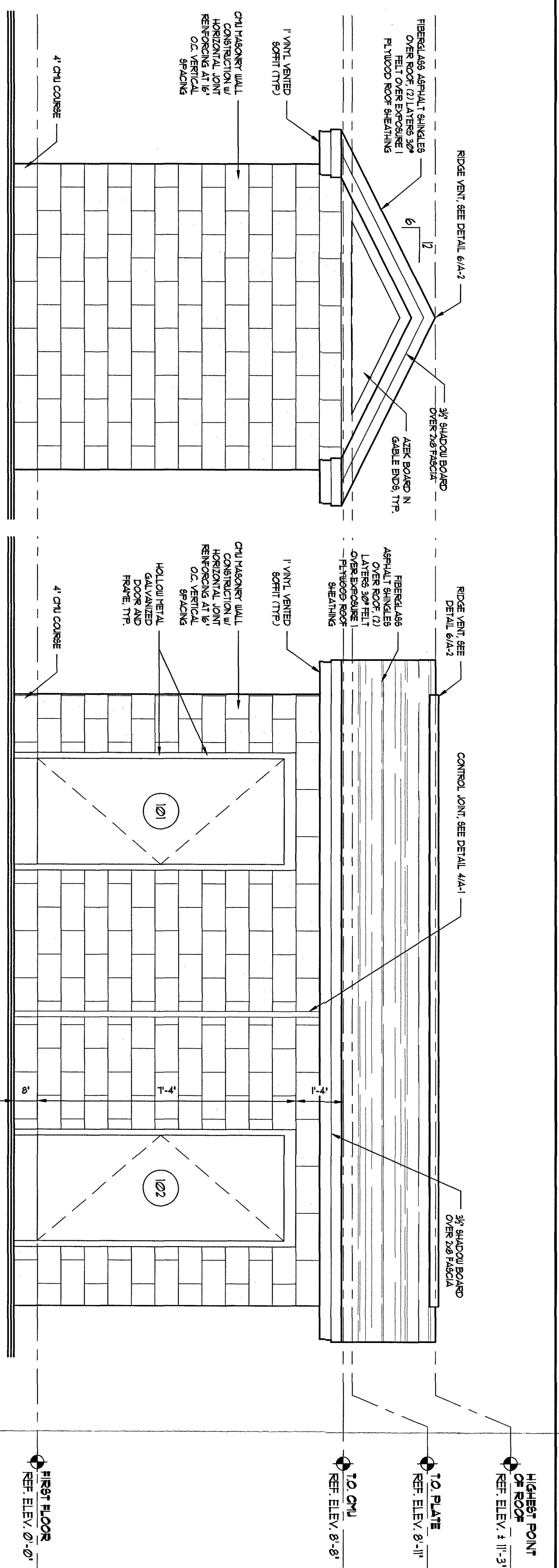
NJDC A.F.Y. 2023 LOCAL RECREATION IMPROVEMENT GRANT (LRIG) FOR THE RESTROOM BUILDING AT BRUNO MELINI PARK
 BOROUGH OF BUENA ATLANTIC COUNTY, NEW JERSEY

Design	Drawn	Checked	Date
JJM	JJM	MAD	09/16/2024

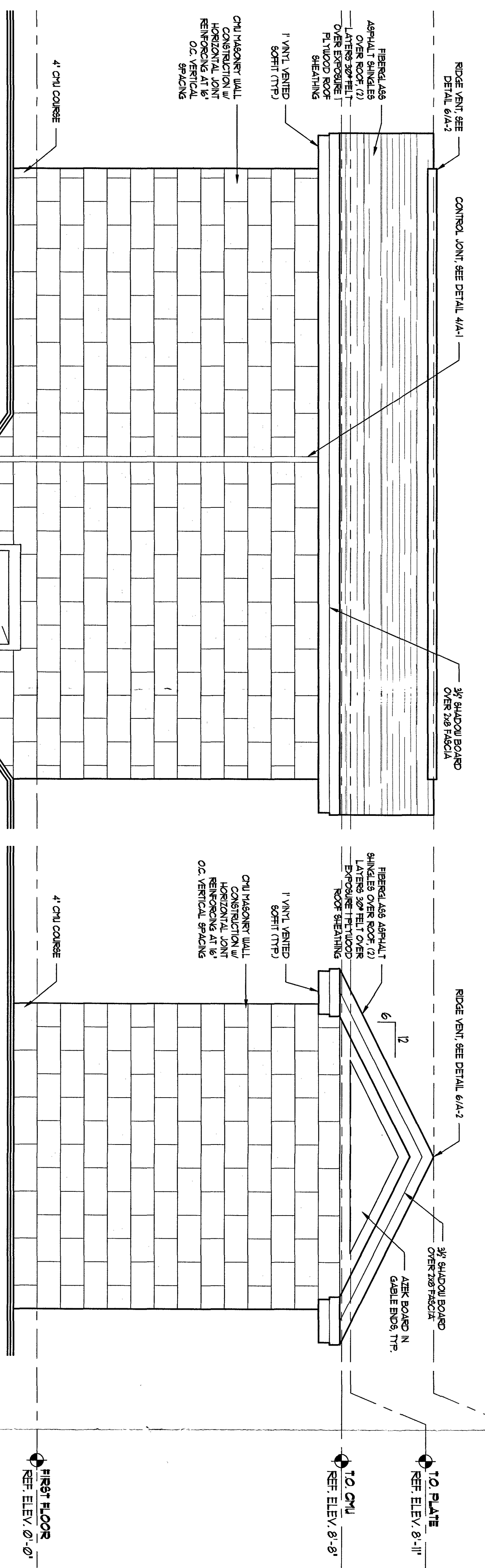
MARC A. DEBLASIO, PE DATE 09/16/2024

Scale	Job No.	Sheet No.	Total
AS NOTED	BBC-013	6	6

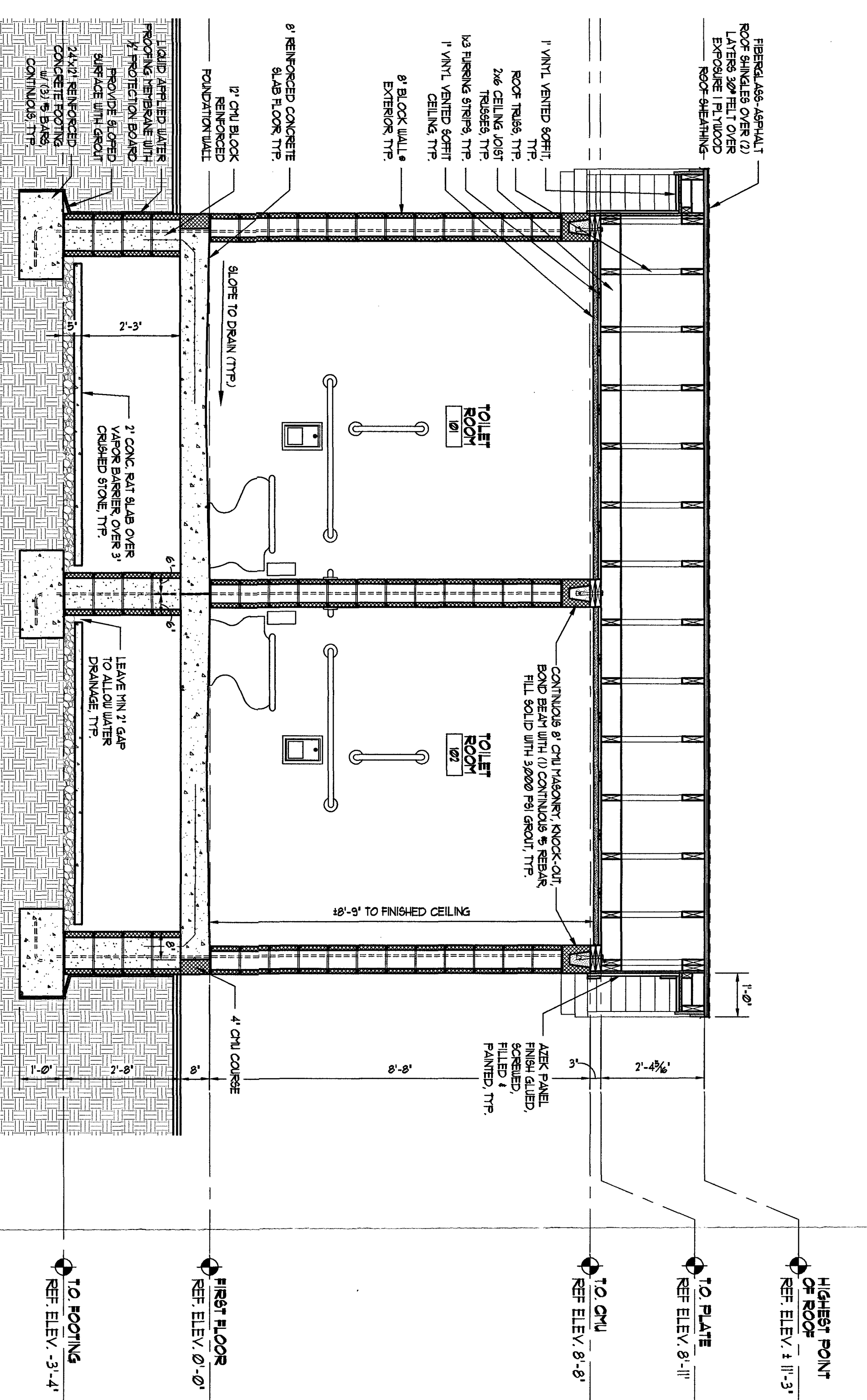
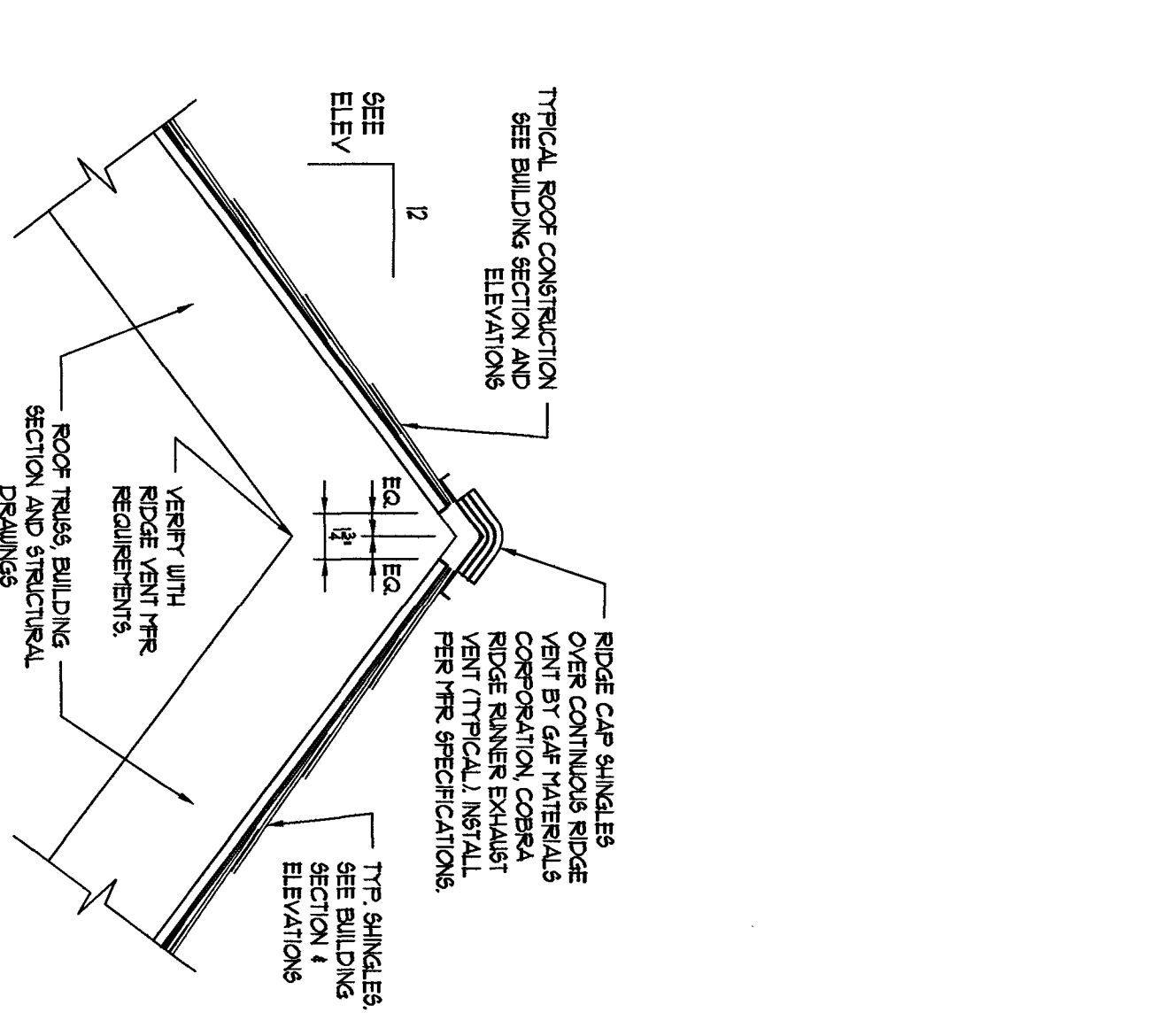
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2 LEFT SIDE ELEVATION
SCALE: 1/2" = 1'-0"



4 REAR ELEVATION
SCALE: 1/2" = 1'-0"



ISSUED FOR PRICING	1	9-23-2024
DRAWING ISSUE		
NO.		DATE

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CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO STARTING CONSTRUCTION

J. Blodman

GENE D. BLACKMAN, JR.
NJ LICENSE # 17113

PROJECT: NJDCA F.Y. 2023 LOCAL RECREATION IMPROVEMENT GRANT (LRIG) FOR THE RESTROOM BUILDING AT BRUNO MELINI PARK

DWG. TITLE: EXTERIOR ELEVATIONS AND SECTION

NO.	DESCRIPTION	DATE

DRAWN BY: BCI
CHECKED BY: JEB
DATE: 09-16-2024
SCALE: AS NOTED

JOB NO.: 1862/071

OSK DESIGN PARTNERS, PA
ARCHITECTS & LAND PLANNERS

475 WHITE HORSE PIKE
COLLINGSWOOD, NEW JERSEY 08107
PHONE: (856)-854-0580

9616 SECOND AVENUE, SUITE 201
STONE HARBOR, NEW JERSEY 08247
FAX: (856)-854-0993
WEB: www.oskdp.com

FOUNDER: JOHN J. OLIVIERI (1956-1999)
PRINCIPAL: PAUL A. KEISS, AIA, PE, NCARB
PARTNER: GERALD D. BLACKMAN, JR., AIA, PE, NCARB
PARTNER: BRAD WAMPLER, AIA, NCARB, LEED AP

SENIOR ASSOCIATE: DANIEL A. SHOUSKY, AIA, PE, NCARB
SENIOR ASSOCIATE: STEVEN J. BLOKOWSKI, AIA
SENIOR ASSOCIATE: ALLISON RUFFE BURKARD, AIA, NCARB
SENIOR ASSOCIATE: JAMES G. ELLIOTT, AIA, NCARB, LEED AP

REGISTERED IN: DELAWARE • FLORIDA • GEORGIA • MARYLAND • MASSACHUSETTS
NEW JERSEY • NEW YORK • PENNSYLVANIA • VIRGINIA • WEST VIRGINIA • WISCONSIN

HVAC ABBREVIATIONS

AV	AUTOMATIC AIR VENT	IN	INCH OR INCHES
AC	AIR CONDITIONING	LAT	LEAVING AIR TEMPERATURE
ACU	AIR CONDITIONING UNIT	LD	LEAKAGE DUCT
AD	ACCESS DOOR	LF	LEAKAGE FEET
AF	ADDENDUM FINISHED FLOOR	LWB	LEAVING WATER TEMPERATURE
AU	APPLY FINISHED FLOOR	LWT	LEAVING WATER TEMPERATURE
AG	AIR HANDLING UNIT	LWS	LEAVING WATER TEMPERATURE
B	BOTTOM GALLEY	M	MOTOR
BG	BOTTOM GALLEY	MH	MOTORISED DAMPER
BFC	BELOW FINISHED CEILING	MS	MECHANICAL EQUIPMENT ROOM
BR	BRAKE HOIST/POWER	N	NORMALY CLOSED
BR	BOTTOM REGISTER	NC	NOT IN CONTRACT
BT	BOTTOM THROAT	NCO	NORMALLY OPEN
BTU	BRITISH THERMAL UNIT	NO.	NUMBER
BTU	SU PER HOUR	N.S.	NOT TO SCALE
BU	BUILDING	N/A	N/A
CA	CABLE UNIT HEATER	O	OUTSIDE AIR
CB	CABLE UNIT HEATER	OA	OUTSIDE AIR INTAKE
CD	CABLE UNIT HEATER	OD	OPEN END DUCT
CG	CEILING GYPSUM	OE	OPEN END DUCT
CG	CEILING GYPSUM	PO	POUNDS PER SQUARE INCH
CG	CEILING GYPSUM	PSI	POUNDS PER SQUARE INCH
CG	CEILING GYPSUM	PSI	POUNDS PER SQUARE INCH
CG	CEILING GYPSUM	PSI	POUNDS PER SQUARE INCH
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CG	CEILING GYPSUM	PSI	POUNDS PER SQUARE INCH
CG	CEILING GYPSUM	PSI	POUNDS PER SQUARE INCH
CG	CEILING GYPSUM	PSI	POUNDS PER SQUARE INCH

GENERAL NOTES

- THESE GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC MECHANICAL DRAWINGS.
- DRAMAING ARE DIMENSIONAL. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
- WORK IN THIS SECTION IS SPECIFIED ON THE SPECIFICATION SHEET.
- COORDINATE THE WORK WITH THAT OF OTHER TRADES.
- DIMENSIONS SHOWN IN PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL EXCEPT IN VIEW OF STRUCTURAL STEEL.
- WHEN APPROXIMATE DIMENSIONS ARE SHOWN ON DRAWINGS, EXACT DIMENSIONS SHALL BE DETERMINED FROM THE DRAWINGS OR FROM DIMENSIONS SHOWN ON OTHER DRAWINGS NECESSARY TO PERFORM WORK OF THIS SECTION.
- MANUFACTURER MODEL NUMBERS ARE SPECIFIED TO THE MAXIMUM EXTENT POSSIBLE IN ORDER TO IDENTIFY THE EQUIPMENT TO BE USED. EQUIPMENT SHALL BE IDENTIFIED BY MANUFACTURER'S TRADE NAME AND MODEL NUMBER ON THE DRAWINGS AND IN THE FIELD.
- PROTECT EXISTING WORK TO REMAIN FROM DAMAGE BY MATERIALS, EQUIPMENT OR OPERATIONS.
- REMOVE EXISTING WORK TO REMAIN TO PROVIDE ACCESS PANELS FOR ANY CONCEALED WORK. THIS WORK SHALL BE ACCESSIBLE EITHER BY CODE OR REASONABLE MEANS. ALL ACCESS PANELS SHALL BE IDENTIFIED BY TRADE NAME AND MODEL NUMBER ON THE DRAWINGS AND IN THE FIELD. THE FINISHING AND CONSTRUCTION OF THE ACCESS PANEL SHALL MATCH THE EXISTING WORK AND CONSTRUCTION OF THE CEILING OR WALL FRICTION AS SHOWN ON THE APPROPRIATE DRAWINGS.
- AIR SYSTEMS
 - REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
 - INTERNAL AIRFLOW DIMENSIONS ARE SHOWN FOR DUCTS. INCREASE INDICATED DIMENSIONS TO ACCOUNT FOR FITTINGS.
 - USE FLEXIBLE CONNECTS FOR DUCTWORK WHERE SPACE AVAILABLE PERmits.
 - DUCTWORK SHALL BE IDENTIFIED BY TRADE NAME AND MODEL NUMBER ON THE DRAWINGS AND IN THE FIELD. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRICAL CONTROL PANELS PER E.C. AND ALL REQUIREMENTS.
- CONSUMABLES
 - THE CONTRACTOR SHALL REPLACE ALL CONSUMABLE EQUIPMENT ON THIS PROJECT.
 - REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
- CODE COMPLIANCE
 - ALL WORK PERFORMED MUST MEET ALL APPLICABLE CODES AS REQUIRED BY THE PROJECT.

SYMBOL LEGENDS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(Dashed line)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	SUPPLY DIFFUSER
(Dashed line with X)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	RETURN OR EXHAUST GRILLE
(Dashed line with X)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	RETURN OR EXHAUST GRILLE
(Dashed line with X)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	RETURN OR EXHAUST GRILLE
(Dashed line with X)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	RETURN OR EXHAUST GRILLE
(Dashed line with X)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	RETURN OR EXHAUST GRILLE
(Dashed line with X)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	RETURN OR EXHAUST GRILLE
(Dashed line with X)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	RETURN OR EXHAUST GRILLE
(Dashed line with X)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	RETURN OR EXHAUST GRILLE
(Dashed line with X)	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING	(Solid line with X)	RETURN OR EXHAUST GRILLE

NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS PLAN ARE USED IN THE PRECEDING DRAWINGS.

PROJECT NOTES:

THE CONTRACTOR SHALL RECEIVE AND REVIEW ALL OF THE PROJECT'S DRAWINGS AND SPECIFICATIONS SUCH AS ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, PLUMBING, FIRE ALARM, SPRINKLER, SITE, ETC. TO UNDERSTAND THE FULL SCOPE OF WORK. FAILURE TO RECEIVE AND REVIEW THESE PLANS DURING BIDDING WILL RESULT IN THE DENIAL OF EXTRAS.

CODE REVIEW

- ALL CONTRACTOR WORK MUST COMPLY WITH THE FOLLOWING:
 - INTERNATIONAL BUILDING CODE (IBC) 2021
 - INTERNATIONAL MECHANICAL CODE (IMC) 2021
 - NATIONAL ELECTRICAL CODE (NEC) 2020
 - ASHRAE 90.1-2019 (COMMERICAL & ALL OTHER RESIDENTIAL)
 - INTERNATIONAL MECHANICAL CODE 2021
 - INTERNATIONAL FIRE GAS CODE 2021
 - BARBER HEEB SUPPORCE (CHAPTER 11 OF 962021 & I.M.C. 236.7, 502.4.11.1, 507
 - AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
 - SMITHER OUTDOOR DESIGN CONDITIONS
 - DESIGN REGION: BLEAH, NJ
 - 2. DRY BULB 82.4°F
 - 3. WET BULB 75.5°F
 - 1. DRY BULB 77°F
 - 2. RELATIVE HUMIDITY: 50% MAXIMUM
 - WINTER: OUTDOOR DESIGN CONDITIONS
 - DESIGN REGION: BLEAH, NJ
 - 2. DRY BULB 11.5°F
 - WINTER: INDOOR DESIGN CONDITIONS
 - 1. DRY BULB 70°F
 - 2. RELATIVE HUMIDITY: NO MINIMUM RH
 - CONTROL PROVIDED:
 - VENTILATION REQUIREMENTS:
 - 1. PER THE APPLICABLE MECHANICAL CODE LISTED ABOVE.
- FLUATION:
 - 1. 30% HEATED PRE-FILTER MEDIA
 - DESIGN DESORPTION:
 - PROVIDE DESIGN RESTRAINTS IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE STATED ABOVE.
 - ALL ROOF MOUNTED EQUIPMENT SHALL BE SET TO WITHSTAND THE FOLLOWING WIND SPEEDS PER THE BUILDING CODE SECTION 1806: WIND SPEED: 100 MPH THIS FACE PARALLEL TO THE FACE OF THE ROOF.

DRAWING LIST

M1.1	HVAC COVER SHEET
M2.1	HVAC FLOOR PLAN

BD engineering
N.J. PROFESSIONAL ENGINEER
NO. 3462018100
44 MAIN STREET, PRANMUNDALE, NJ 07777
732.888.4242

BRIAN D. TANNENHAUS

ISSUED FOR BID
NOT FOR CONSTRUCTION
DATE: 08/12/2024

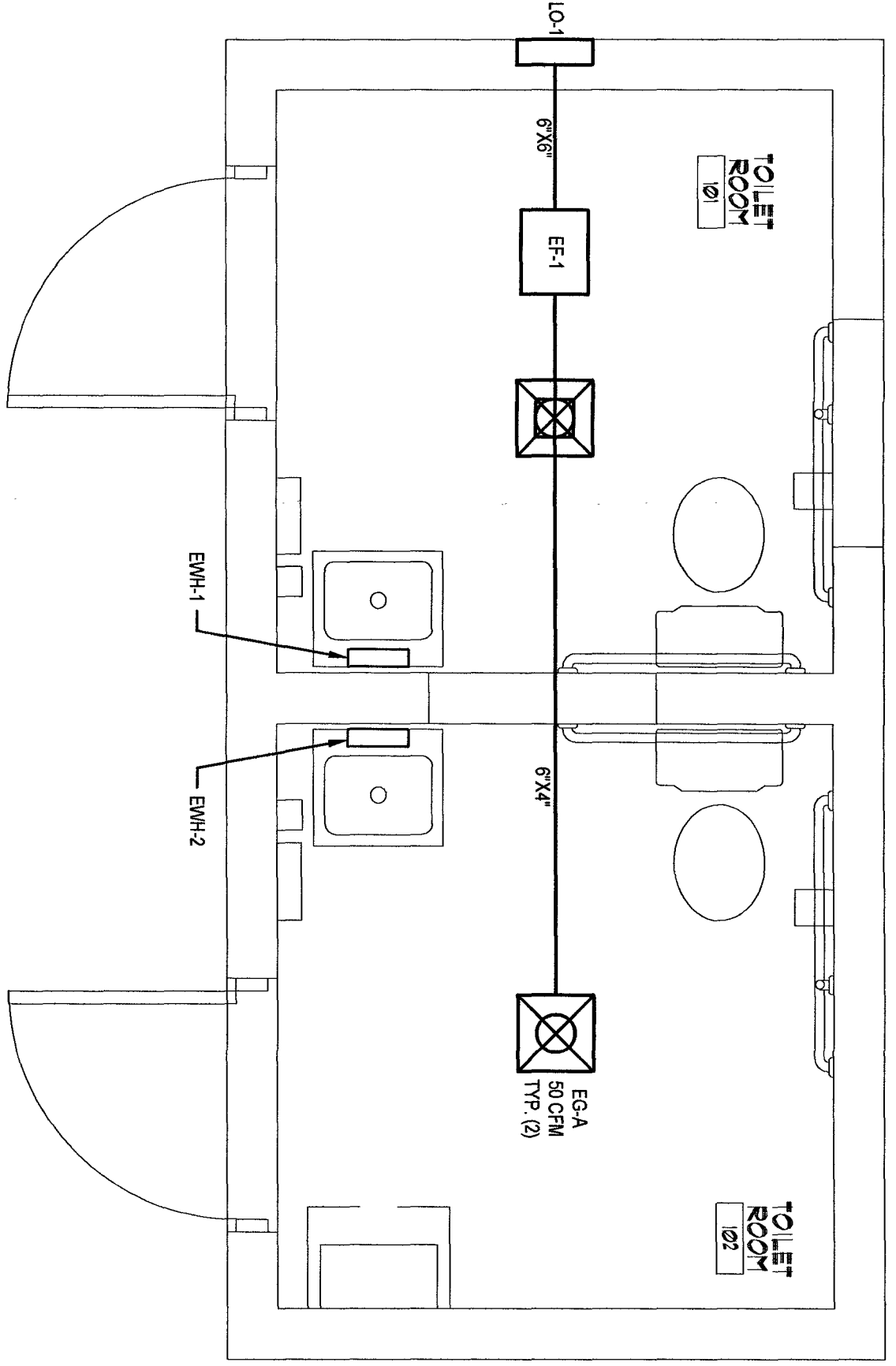
N.J. PROFESSIONAL ENGINEER
NO. 3462018100
DATE: 08/12/2024

NO.	ISSUED FOR BID	DATE
BY	ISSUED FOR BID	DATE
DESCRIPTION	ISSUED FOR BID	DATE

NJDCFA F.Y. 2023
LOCAL RECREATION IMPROVEMENT GRANT (LRIG) FOR THE RESTROOM BUILDING AT BRUNO MELINI PARK
DEBLASIO & ASSOCIATES
BLEAH, NJ

PROJECT NO.
HVAC COVER SHEET
drawing name

scale: AS NOTED
date: 08/12/2024
drawing by: AR
project no.: 240128
drawing no.: M1.1



HVAC FLOOR PLAN
SCALE: 1/2" = 1' - 0"

EXHAUST FAN SCHEDULE

NO.	SERVICE	UNIT	MODEL	AIR FLOW (CFM)	INT. VOLT	PHASE	INSTALLATION	MAX. WEIGHT (LBS)	NOTES
EF1	TOILET ROOM	GREENKICK	ES04-2103	100	120V	1			
EF2	TOILET ROOM	GREENKICK	ES04-2103	100	120V	1			

NOTES:

- MECHANICAL UNITS TO BE MOUNTED ON ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.

DIFFUSER SCHEDULE

NO.	SERVICE	DESCRIPTION	SIZE	TYPE	INSTALLATION	NOTES
DF1	TOILET ROOM	ROOF MOUNTED DIFFUSER	12" DIA.	ROOF MOUNTED	TOILET ROOM	1. TOILET ROOM
DF2	TOILET ROOM	ROOF MOUNTED DIFFUSER	12" DIA.	ROOF MOUNTED	TOILET ROOM	1. TOILET ROOM

NOTES:

- ROOF MOUNTED DIFFUSERS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- ROOF MOUNTED DIFFUSERS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- ROOF MOUNTED DIFFUSERS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- ROOF MOUNTED DIFFUSERS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- ROOF MOUNTED DIFFUSERS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- ROOF MOUNTED DIFFUSERS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- ROOF MOUNTED DIFFUSERS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- ROOF MOUNTED DIFFUSERS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.

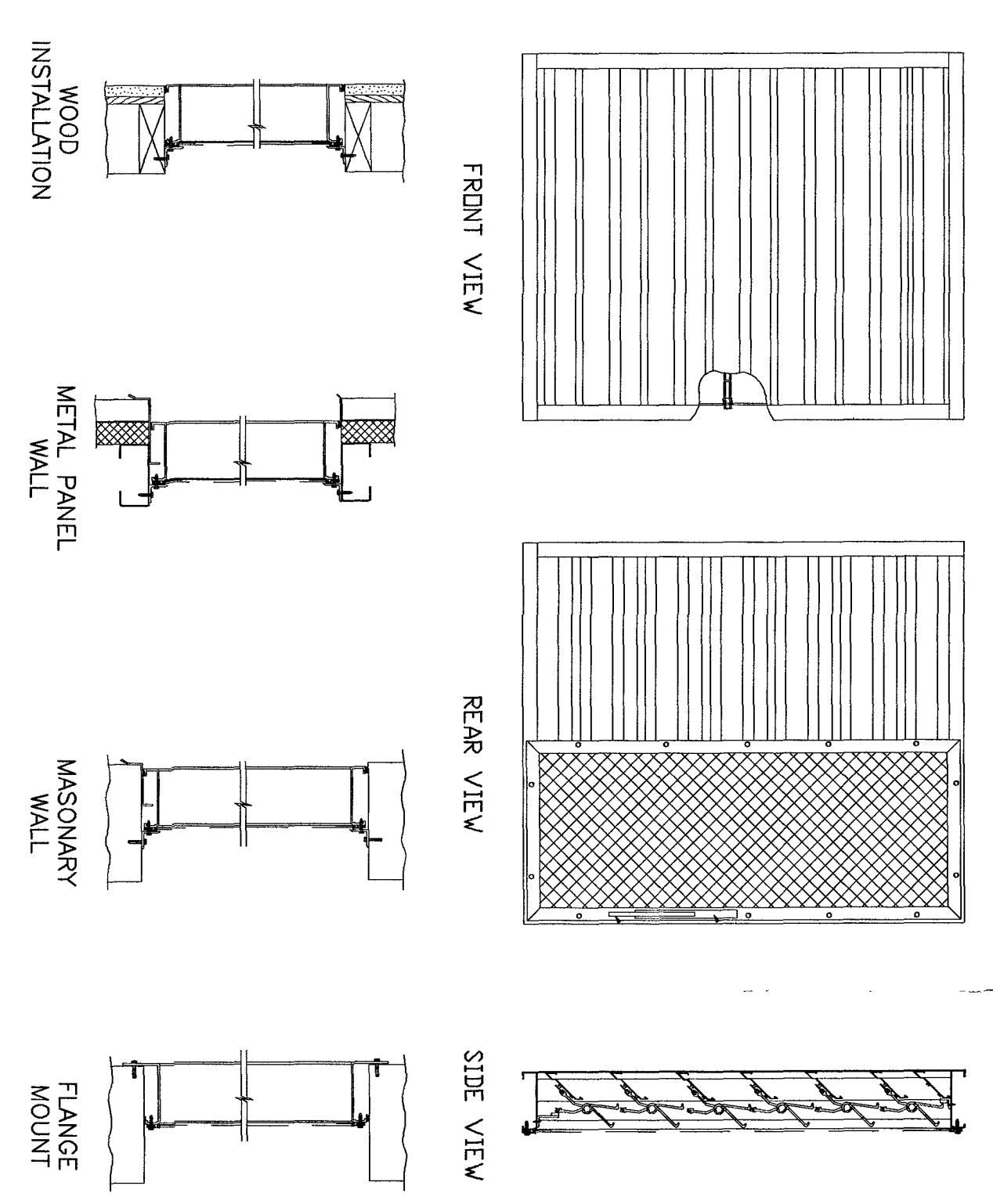
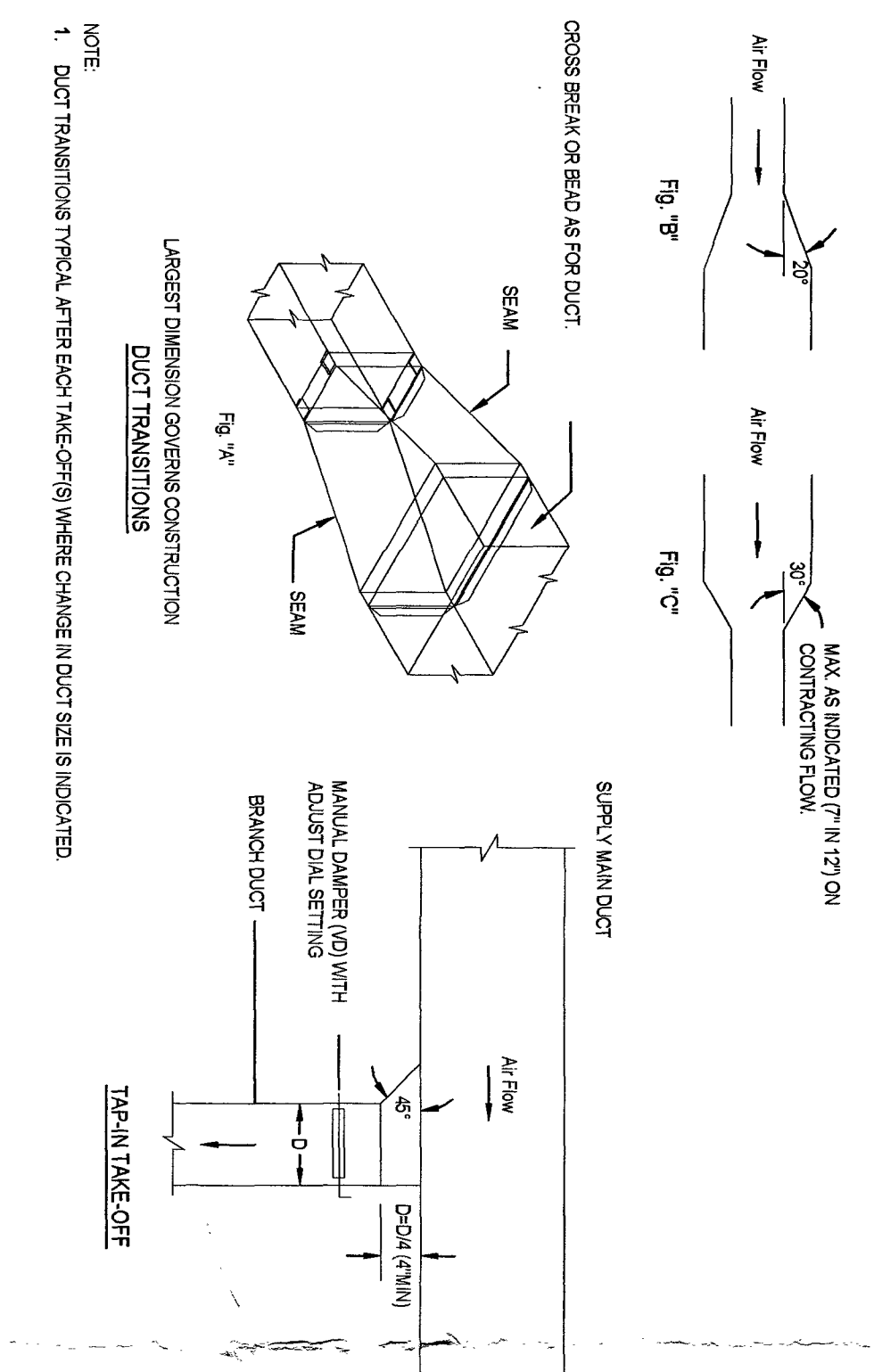
EXHAUST LOUVER SCHEDULE

NO.	SERVICE	UNIT	MODEL	AIR FLOW (CFM)	INT. VOLT	PHASE	INSTALLATION	MAX. WEIGHT (LBS)	NOTES
LO1	TOILET ROOM	GREENKICK	ES04-2103	100	120V	1			
LO2	TOILET ROOM	GREENKICK	ES04-2103	100	120V	1			

NOTES:

- MECHANICAL UNITS TO BE MOUNTED ON ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.
- MECHANICAL UNITS TO BE MOUNTED ON ROOF WITH 1" MIN. CLEARANCE FROM ROOF.

- GENERAL NOTES:**
- THE EXACT MOUNTING DETAILS AND COATING OF ALL HVAC EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL OTHER MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL SYSTEMS.
 - VERIFY ALL EQUIPMENT VOLTAGES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
 - PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT INCLUDING WEATHERPROOF DISCONNECT AS REQUIRED.
 - PROVIDE PANEL LOSS PROTECTION FOR ALL POLY-PHASE MOTOR DEVICES.
 - THE FINAL LOCATION OF AIR DEVICES MUST BE COORDINATED WITH THE REFLECTED CEILING PLAN AND ALL OTHER ELECTRICAL, FIRE PROTECTION, MECHANICAL AND STRUCTURAL SYSTEMS.
 - PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS TO WEATHERPROOF ROOF PENETRATIONS.
 - ALL CEILING MOUNTED EQUIPMENT MUST BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH COMBINATION STRUNG AND NEOPRENE ANCHORS, HANGERS AND ROD. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT THE LOAD.
 - ALL ROOFTOP HVAC EQUIPMENT SHALL BE INSTALLED SUFFICIENTLY AWAY FROM EDGE OF ROOF TO ALLOW FOR THE INSTALLATION OF PROPER FLASHING TO WEATHERPROOF ROOF PENETRATIONS. PROVIDE FLASHING TO WEATHERPROOF ROOF PENETRATIONS. PROVIDE FLASHING TO WEATHERPROOF ROOF PENETRATIONS. PROVIDE FLASHING TO WEATHERPROOF ROOF PENETRATIONS.
 - ALL ROOFTOP UNITS MUST ALSO COMPLY WITH ALL OSHA SAFETY REQUIREMENTS. RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL CORRE COMPLIANT SAFETY RAILS.
 - ALL FRESH AIR INTAKES INCLUDING COMBINATION LOUVERS OR ROOF MOUNTED INTAKE HOODS REQUIRE INSECT SCREENS.



BD engineering

REGISTERED PROFESSIONAL ENGINEERS
44 MAIN STREET FARMINGDALE, NY 11737
726-885-6442

BRIAN D. TANNENHAUS
NO. 05-05801

ISSUED FOR BID
NOT FOR CONSTRUCTION
08/16/2024

DATE: _____

PROJECT: LOCAL RECREATION IMPROVEMENT GRANT (LRIG) FOR THE RESTROOM BUILDING AT BRUNO MELINI PARK DEBLASIO & ASSOCIATES

PROJECT NO: 240128

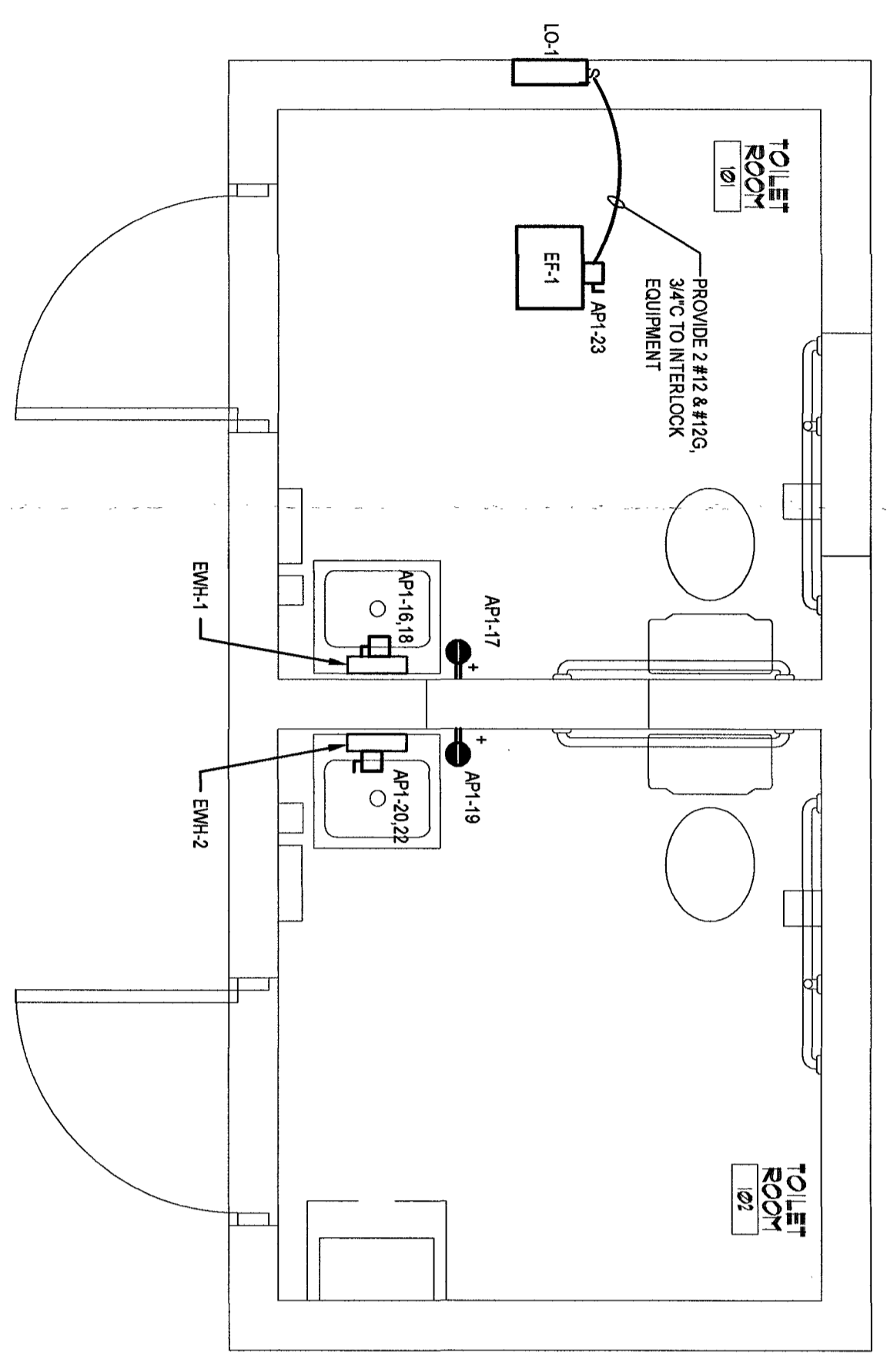
DATE: 08/16/2024

SCALE: AS NOTED

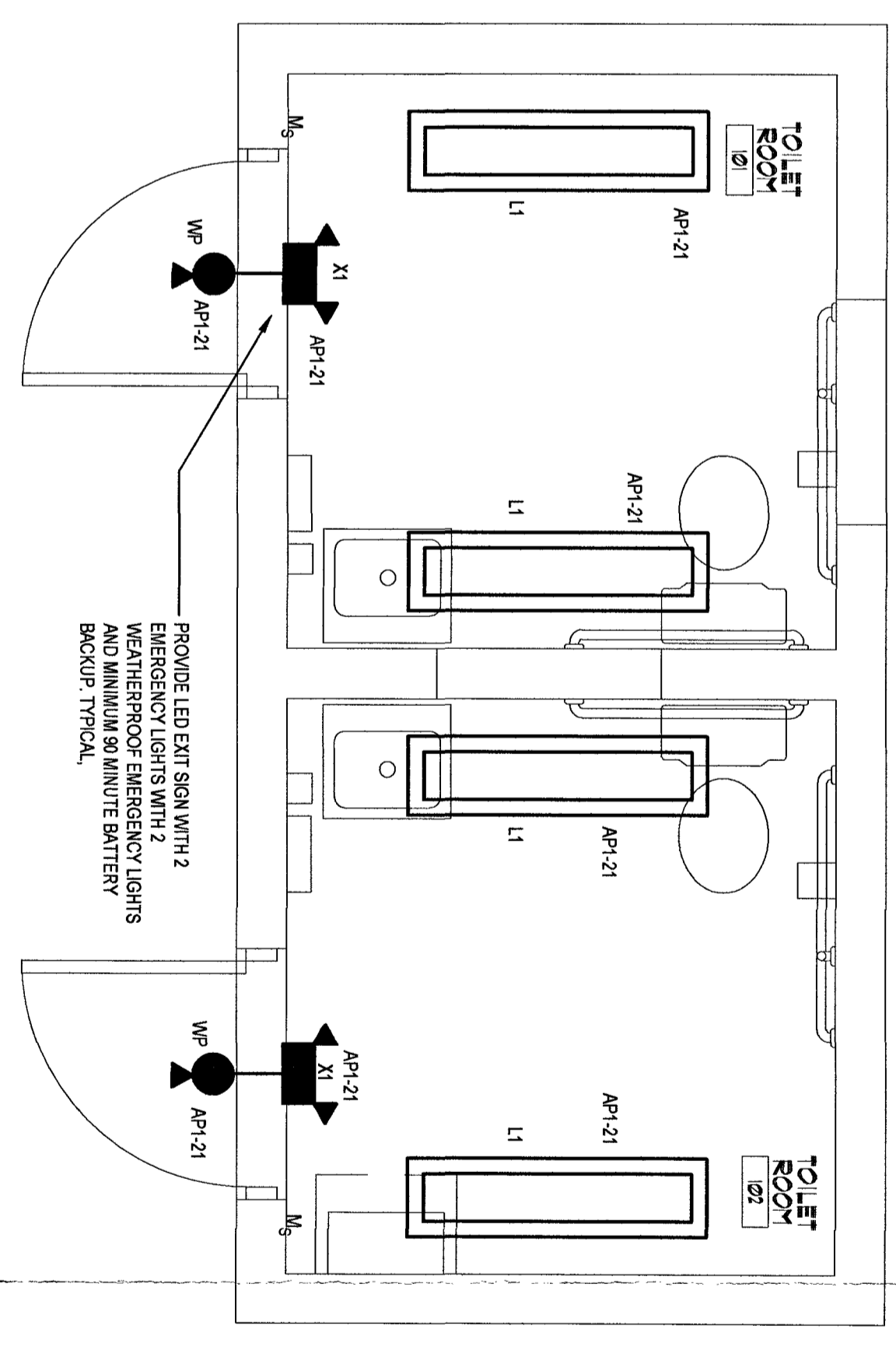
DRAWING NO: M2.1

ISSUED FOR BID
 NOT FOR CONSTRUCTION
 08/16/2024

PROFESSIONAL ENGINEER



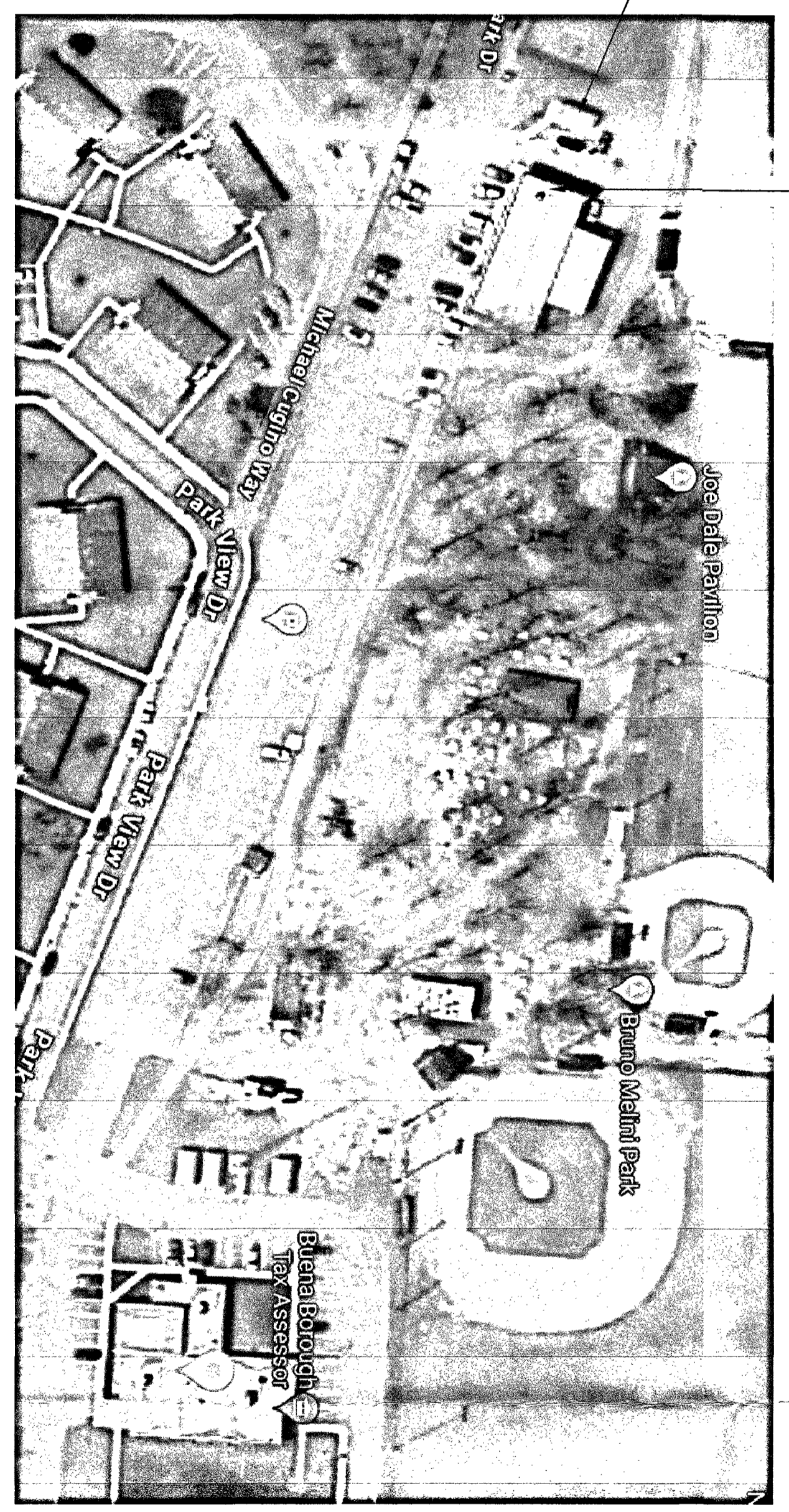
FLOOR PLAN
 SCALE: 1/8" = 1'-0"



REBIDDED CEILING PLAN
 SCALE: 1/8" = 1'-0"

Luminaire Schedule	Label	Description	LLF	Luminaire Lumens	Luminaire Watts
L1	Jademar	15TR-E-4.0W-350K-D-CONTROL OPTIONS-OPTIONS	0.900	3249	25

NO.	CIRCUIT BREAKER	DESCRIPTION	SIZE	PHASE	LOAD			NO. OF CIRCUITS	CIRCUIT BREAKER	DESCRIPTION	NO. OF CIRCUITS	CIRCUIT BREAKER
					VA	AMP	WATT					
1	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
2	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
3	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
4	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
5	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
6	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
7	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
8	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
9	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
10	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
11	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
12	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
13	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
14	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
15	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
16	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
17	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
18	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
19	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
20	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
21	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
22	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
23	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
24	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
25	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
26	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
27	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
28	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
29	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
30	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
31	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
32	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
33	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
34	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
35	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
36	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
37	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
38	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
39	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20
40	20	EXISTING CIRCUIT	20	A	0	0	0	1	20	EXISTING CIRCUIT	1	20
41	20	EXISTING CIRCUIT	20	B	0	0	0	1	20	EXISTING CIRCUIT	1	20
42	20	EXISTING CIRCUIT	20	C	0	0	0	1	20	EXISTING CIRCUIT	1	20



SITE PLAN
 SCALE NONE

NO. 1
 BY ISSUED FOR BID
 DESCRIPTION
 DATE 08/19/2024

REVISIONS

NO. 1
 BY AW
 DESCRIPTION LOCAL RECREATION IMPROVEMENT GRANT (RIG) FOR THE RESTROOM BUILDING AT BRUNO MAIN PARK
 DATE 08/12/2024

PROJECT TITLE LOCAL RECREATION IMPROVEMENT GRANT (RIG) FOR THE RESTROOM BUILDING AT BRUNO MAIN PARK
 PROJECT NO. 240128
 CLIENT DEBLASIO & ASSOCIATES
 PROJECT LOCATION BRUNO, NJ
 DRAWING TITLE ELECTRICAL FLOOR PLAN
 DRAWING NO. E2.1

- GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS WORKED.
- DRAWINGS ARE DIMENSIONAL. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
- NEITHER ACCURACY NOR CORRECTION OF UTILITY LOCATIONS SHOWN EXISTING UTILITIES IN FIELD WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND VERIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PREVENT WORK OF THIS SECTION.
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND ALL APPLICABLE LOCAL, STATE AND FEDERAL MANUFACTURERS MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
- RECONSTRUCTION INSTALLATION SHALL ADHERE TO MANUFACTURERS RECOMMENDATIONS.
- PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
- TOPS OF ALL CEILING TRAYS SHALL BE SET FLUSH WITH FINISHED FLOOR FINISH. TRAYS SHALL BE SET FLUSH WITH FINISHED FLOOR FINISH BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR AND PROVIDE ALL NECESSARY WIRING FOR THE EQUIPMENT VOLTAGES SHOWN HEREIN.
- CONNECT NETWORK TO EXISTING WORK IN A NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ITS ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.
- CONNECT NETWORK TO EXISTING WORK WITH MINIMAL INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS ARE PERMISSIBLE ONLY IF THEY DO NOT INTERFERE WITH THE OWNER, ARCHITECT AND BIDDING SYSTEMS AND NOT TO BE INTERRUPTED.
- PROTECTING SHALL BE INSTALLED WHEREVER PIPING EXCEEDS FIRE RATED PARTITION LOCATIONS. THE PROTECTING SHALL MATCH OR EXCEED THE FIRE RATING OF THE PARTITION PENETRATED. ALL PROTECTING SHALL BE AUL LISTED ASSEMBLY.
- PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SHUTTERS TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL MAIN LINES AND BRANCHES WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
- ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR. COORDINATE HOOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS.
- RUN PIPING CONCEALED IN WALLS AND CEILING SPACES, UNLESS SPECIFIED OTHERWISE. AND CLEAR OF CEILING INSERTS.
- PROVIDE CABLES, CONDUITS, EXPANSION JOINTS, MANHOLES AND PROTECTING TO BE INSTALLED TO THE PIPING SYSTEMS ON PERMANENT FOUNDATIONS.
- PROVIDE SCHEDULED VALVES AT SYSTEMS, LOOP RETURNING AND AT SUPPLIES AND SIPPY RISERS.
- PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
- PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
- VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO DRAWINGS FOR EXISTING LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
- PLUMBING SUBCONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL PIPING TO THE CONTRACTOR'S SCOPE OF WORK.
- WARRANTY WORK SHALL BE INSTALLED PER PERMANENT UNDER HEATERS. MOIST ENCLURES TO NEAREST FLOOR FINISH OR WASTE PIPE LOCATION.
- PIPING SHALL NOT RUN OVER ELECTRICAL PANELS AND SHALL BE COORDINATED WITH WORK OF OTHER TRADES.
- ALL NEW PIPING SHALL BE CONCEALED IN CEILING WALL CAVITIES AND/OR UNDER FLOORS UNLESS OTHERWISE NOTED. EXISTING PIPING SHALL BE EXPOSED AS A RESULT OF REMEDIATION OPERATIONS. WALL CAVITIES OR UNDER FLOORS AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL INCLUDE FINISHING OF CONCRETE FLOOR DUE TO SMOOTING REQUIREMENTS FOR NEW UNDERGROUND PIPING.
- CONTRACTOR SHALL PROVIDE BACKFLOW PREVENTION DEVICES ON ALL WATER CONNECTED EQUIPMENT AS REQUIRED BY APPLICABLE CODE.
- PC IS RESPONSIBLE TO PROVIDE ACCESS PANELS FOR ANY CONCEALED PLUMBING WORK THAT MUST BE ACCESSIBLE EITHER BY CODE OR AS RECOMMENDED BY MANUFACTURERS. ACCESS PANELS SHALL BE REVIEWED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION OF DEVICES REQUIRING THE ACCESS PANEL. ALL ACCESS DOORS MUST ALL PREVENTION AS DISMOUNTABLE ON THE ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL BRING ANY CONFLICTS IN THE DRAWINGS TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS. IF NOT RESOLVED BY THE BIDDING PROCESS, THE ENGINEER SHALL MAKE A WRITTEN OPTION SHALL BE CHOSEN FOR BIDDING PURPOSES.
- CONTRACTOR SHALL PROVIDE ADJUSTABLE THERMOSTATIC MIXING VALVES FOR ALL HAND SHUNS TO LIMIT THE HOT WATER TEMPERATURE ADJUSTABLE UP TO 110 DEGREES FAHRENHEIT AS DIRECTED BY THE CLIENT.
- CONTRACTOR SHALL USE THERMOSTATIC MIXING VALVES THAT COMPLY WITH ASSE 1070Z001.2001 AND THERMOSTATIC VALVES SHALL COMPLY WITH ASSE 1070Z001.2001 EMERGENCY. EMERGENCY SHOWER MIXING VALVES SHALL COMPLY WITH ASSE 1071.2012.
- CONTRACTOR SHALL PROVIDE COVERS FOR ALL PIPING ABOVE AND BELOW GRADE AT THE END OF THE DAY AND DURING THE DAY TO PROTECT THE PIPING FROM DAMAGE AND TO PROTECT THE PIPING FROM DAMAGE. THE CONTRACTOR SHALL PROVIDE THE COVERING FOR RECORD TO ENSURE NO OTHERS IS PRESENT IN THE CONTRACTOR'S EXPOSURE INCLUDING THE TRENCHING AND REPAIR OF ANY FLOOR OR GRABBER FINISHES. A COPY OF THE VIDEO SHALL BE GIVEN TO THE OWNER FOR THEIR RECORD.
- FOR ALL FAST ACTING VALVES SUCH AS BUT NOT LIMITED TO ELECTRICALLY OPERATED VALVES, HOSE STATIONS, HOSE SPRAYERS, FLOORSCOPERS, ETC., SIZED AS PER THE MANUFACTURERS REQUIREMENTS AND COORDINATED WITH THE SIZE OF THE FAST ACTING VALVE.
- PLUMBING CONNECTIONS ARE SHOWN FOR DIAGNOSTIC PURPOSES AND THE CONTRACTOR SHALL NOT BASE THEIR BID ON THE LOCATION OF THESE CONNECTIONS. SUBMISSION OF A BID INDICATES AN UNDERSTANDING OF THE LOCATION OF THESE CONNECTIONS AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION RESTRICTIONS AT NO ADDITIONAL COST TO THE CLIENT.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FINAL UTILITY CONNECTIONS WITH THE UTILITY COMPANIES. FOR EXAMPLE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE UTILITY CONNECTIONS WITH THE LEAD CONTRACT PERSON FOR THE ADDITIONAL LOAD APPLICATION AND BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND CHANGES TO THE EXISTING GAS SERVICE. THIS INTRODUCTION AND CHANGE OF POINT OF ENTRY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACT SHALL INCLUDE THE FIRST TWO WELLS OF STARTING THE PIPING TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTING TO BE INSTALLED TO BE INSTALLED TO BE INSTALLED WITH INADEQUATE UTILITY SERVICES.
- CONTRACTOR SHALL PROVIDE MANUFACTURED PROTECTIVE SHEETING PRIOR TO CONSTRUCTION OF HOT AND COLD WATER SUPPLY, TRAP, AND DRAIN PIPING IN REPAIR AREAS.

GENERAL NOTES

PROJECT NOTES:

THE CONTRACTOR SHALL RECEIVE AND REVIEW ALL OF THE PROJECTS DRAWINGS AND SPECIFICATIONS SUCH AS ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, PLUMBING, FIRE ALARM, SPRINKLER, SITE ETC. TO UNDERSTAND THE FULL SCOPE OF WORK. FAILURE TO RECEIVE AND REVIEW THOSE PLANS DURING BIDDING WILL RESULT IN THE DENIAL OF EXTRAS.

THE CONTRACTOR SHALL CONFORM TO THE LATEST BUILDING CODES:

- INTERNATIONAL BUILDING CODES, IBC 2024
- NATIONAL STANDARD PLUMBING CODES, NPSI 2024
- BANNER TREE SUBCODE CHAPTER 11 OF BUILDING & LABC 523.17, IBC A117.1.2017

APPLICABLE CODES

SYMBOL

SYMBOL	DESCRIPTION
—	NEW, UNLESS OTHERWISE NOTED DARK LINE WEIGHT
- - -	EXISTING, UNLESS OTHERWISE NOTED LIGHT LINE WEIGHT
- - -	SWIMMING POOL
- - -	VENT PIPING
- - -	COLD WATER
- - -	HOT WATER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
CO	CLEAN OUT
EWH	ELECTRIC WATER HEATER
FCD	FLOOR CLEAN OUT
RD	FLOOR DRAIN
HS	HAND SINK
HW	HOT WATER
N/S, N/T, S	NOT TO SCALE
PC	PLUMBING CONTRACTOR
SM	SANITARY
TYP	TYPICAL
VTR	VERT TRAIL RISE

NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS PLAN ARE LISTED IN THE FOLLOWING TABLES.

SYMBOL LEGENDS AND ABBREVIATIONS

- P1.1 PLUMBING COVER SHEET
- P1.2 PLUMBING FLOOR PLAN

DRAWING LIST

no.:	ISSUED FOR BID	date:	09/16/2024
by:	description:	date:	

NJDOCA F.Y. 2023
LOCAL RECREATION IMPROVEMENT GRANT (LRIG) FOR THE RESTROOM BUILDING AT BRUNO MELINI PARK DEBLASIO & ASSOCIATES

project title: BRUNO, NJ
drawing name: PLUMBING COVER SHEET

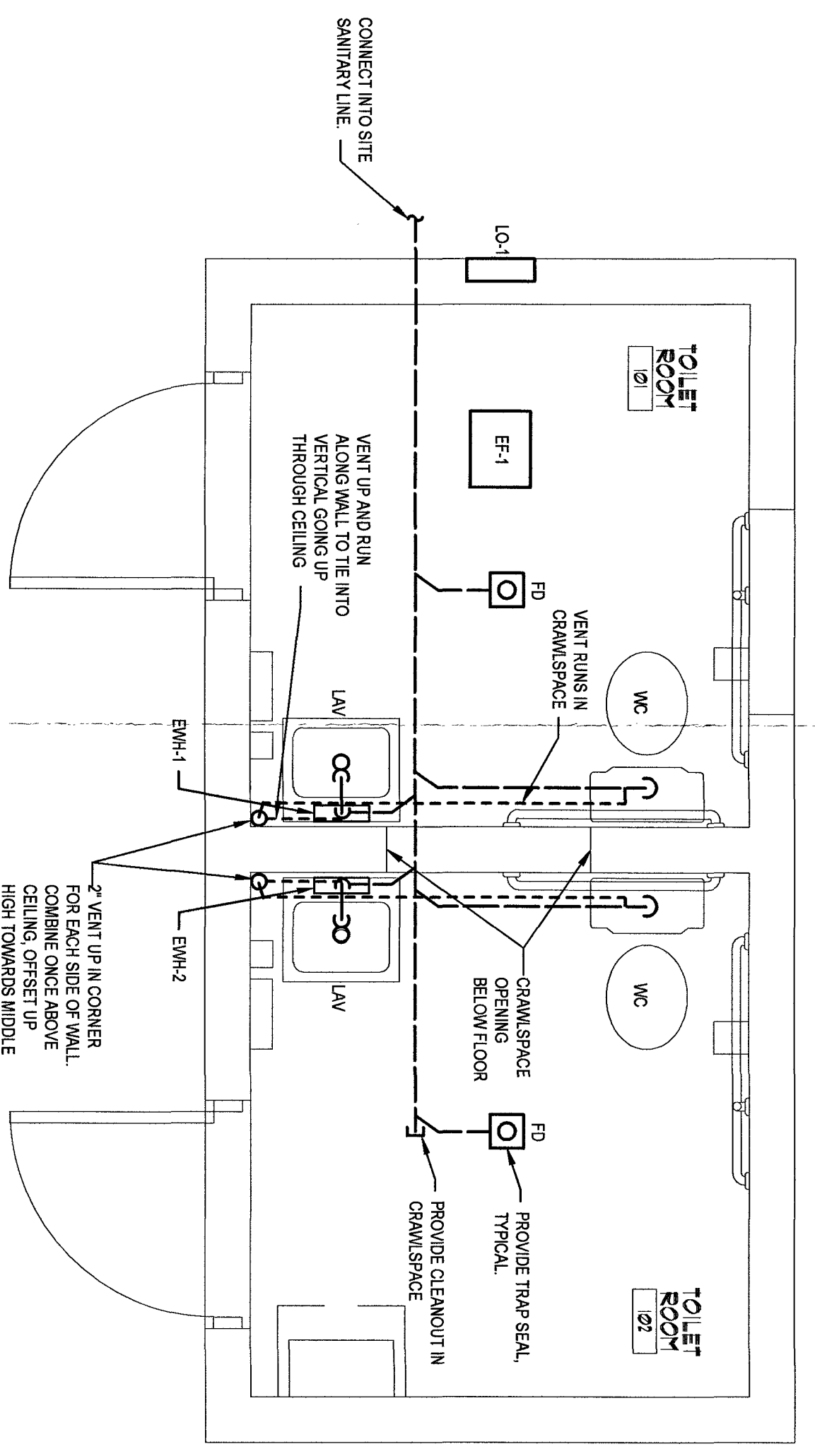
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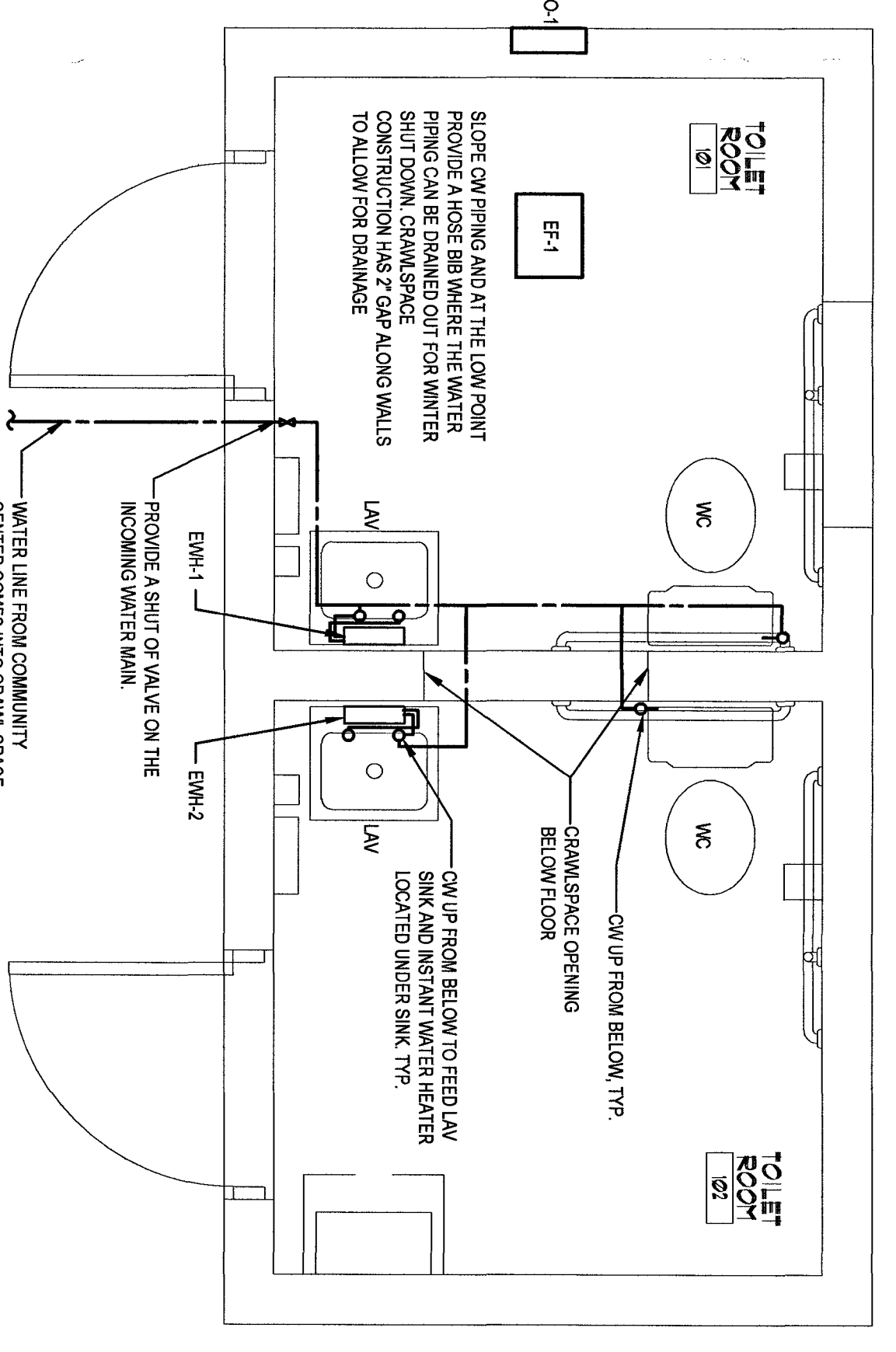
drawn by: RL

project no: 240128

drawing no: P1.1



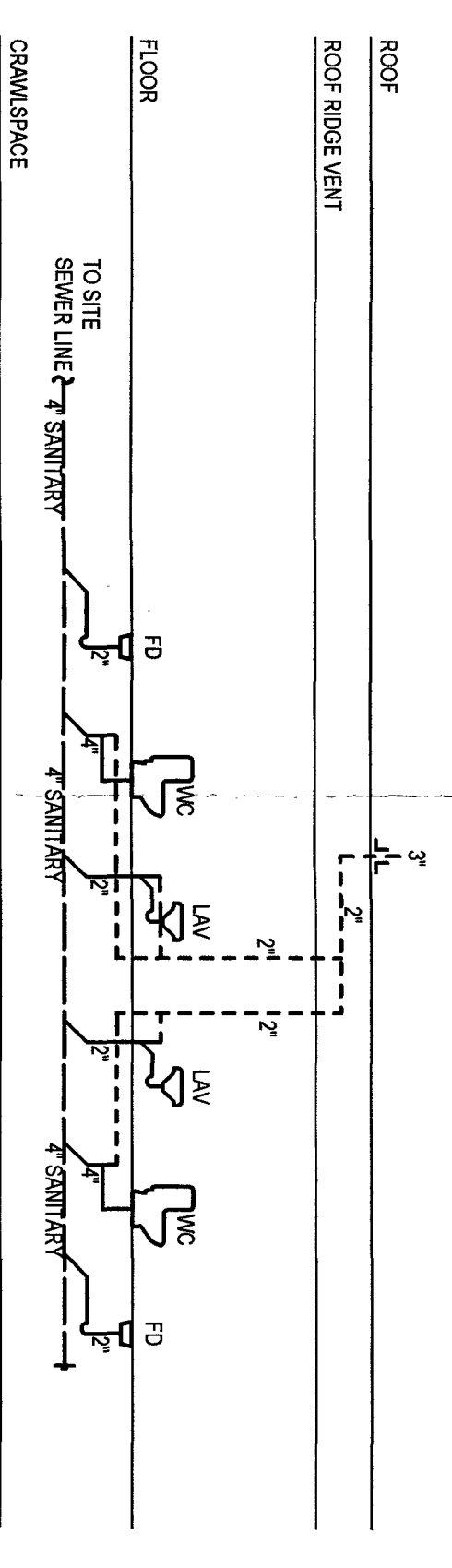
NOTE:
ROOF ALL PLUMBING FROM THE FLOOR IN CRAWLSPACE HIGH UP ALONG FLOOR SLABS AND COME UP THROUGH FLOOR OF THESE AREAS. SANITARY RISERS TO BE INSTALLED IN THESE AREAS. COMMUNICATIONS BETWEEN TWO AREAS IN CRAWLSPACE.



- SANITARY GENERAL NOTES:**
- UNLESS OTHERWISE NOTED FROM DRAIN, FLOOR SINKS, AND/OR SINKS SHALL BE INSTALLED FROM THE FLOOR.
 - REMOVE TRAP SEALS IN ALL FLOOR DRAIN TRAPS THAT ARE AT RISK OF BEING SUBJECT TO EXPOSURE.
 - EXISTING SANITARY LOCATION IS APPROXIMATE. FIELD VERIFY ALL FINAL LOCATIONS FROM TO BUILDING.
 - REFER TO ISSER DRAWING FOR ADDITIONAL INFORMATION.
 - SEE PLUMBING SCHEDULES FOR FIXTURE PRE CONNECTION SIZES.
 - SOILS IS STRUCTURAL TYPE. ALL PIPES AND UTILITIES UNDER FLOOR NEED STRUTICAL PLANS AND QC PRIOR TO FOUNDATIONS BEING POURED. FAILURE TO COORDINATE WILL RESULT IN THE REMOVAL OF EXTRAS.

FLOOR PLAN/SANITARY

SCALE: 1/2" = 1'-0"

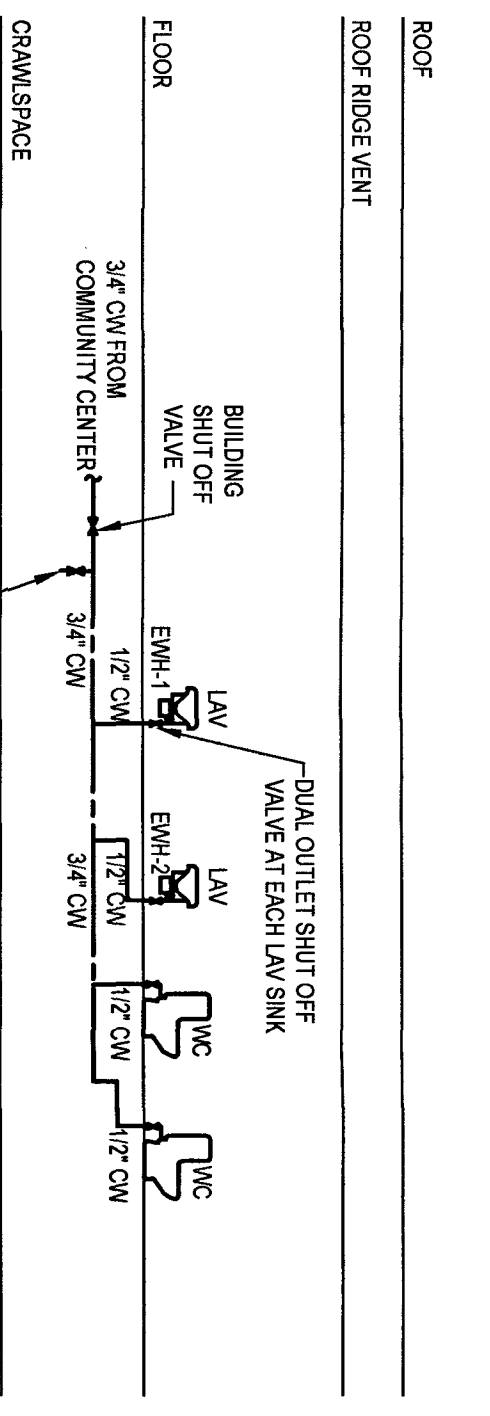


SANITARY RISER

SCALE: NONE

FLOOR PLAN/WATER SUPPLY

SCALE: 1/2" = 1'-0"



WATER RISER

SCALE: NONE

PLUMBING FIXTURE SCHEDULE

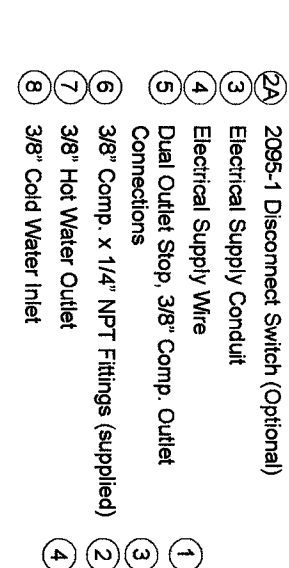
TAG	FIXTURE	MANUFACTURER	MODEL	HSFC SECTION		MATERIAL/COLOR	EXCISE ACCESSORIES	PLUMBING CONNECTION SIZES						NOTES		
				FLOOR	ROOF RISE			CM	1/2"	3/4"	1"	1 1/2"	2"		3"	4"
FD	FLOOR DRAIN	WATTS	P3-100A	FLOOR	ROOF RISE	CAST IRON/BRASS STRAINER	FALZET AMERICAN STANDARD MONTERREY 550174.002	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	0.56 GPM
LAV	LAV SINK	AMERICAN STANDARD	LICENSE/ISSUE/100	FLOOR	ROOF RISE	WHITE/WHITE/US CHINA	FALZET AMERICAN STANDARD MONTERREY 550174.002	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	0.56 GPM
WC	WATER CLOSET	AMERICAN STANDARD	CAE1726776.020	FLOOR	ROOF RISE	WHITE/WHITE/US CHINA	FALZET AMERICAN STANDARD MONTERREY 550174.002	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	0.56 GPM

PLUMBING EQUIPMENT SCHEDULE

TAG	EQUIPMENT	MANUFACTURER	MODEL	SERVICE	VOLTAGE	PHASE	AMPS	KW	NOTES
EMH-1	ELECTRIC WATER HEATER	CHRONOMITE	CM1600 CM-16LZ88	TOILET ROOM 101	208	1	20	4.8	57 DEG RISE AT 0.5 GPM, MIN ACTIVATION RATE 0.2 GPM
EMH-2	ELECTRIC WATER HEATER	CHRONOMITE	CM1600 CM-16LZ88	TOILET ROOM 102	208	1	20	4.8	57 DEG RISE AT 0.5 GPM, MIN ACTIVATION RATE 0.2 GPM

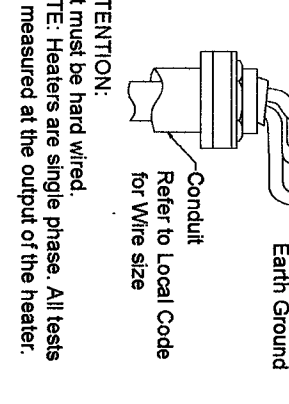
- Notes:**
- Water to be vented above the level of all hot water outlets vented by the water connections available.
 - Water to be vented above the level of all hot water outlets vented by the water connections available.

1. Insulated Floor Mason Heater
2. Electrical Junction Supply Box (Optional)
3. 208V-1 Disconnected Switch (Optional)
4. Electrical Supply Wire
5. Electrical Supply Wire
6. Dual Outlet Box, 3/8" Comp. Outlet
7. Connections 1/2" VTR (Supplied)
8. 3/8" Hot Water Outlet
9. 3/8" Cold Water Inlet



CHRONOMITE WATER HEATER DETAIL

SCALE: NONE



FLOOR DRAIN DETAIL

SCALE: NONE

- WATER GENERAL NOTES:**
- UNLESS OTHERWISE NOTED, ALL BRANCH PIPING SHALL HAVE A SHUT-OFF VALVE INSTALLED WHERE THE BRANCH TAKE OFF BEGINS FROM THE MAIN.
 - REMOVE THE BRANCH TAKE OFF VALVES FOR ALL HAND SINKS AND LAVS. THE BRANCH TAKE OFF VALVES TO TOY SHUT OFF VALVES IN THE FUTURE.
 - REFER TO ISSER DRAWING FOR ADDITIONAL INFORMATION.
 - REFER TO PLUMBING SCHEDULES FOR FIXTURE PRE CONNECTION SIZES.
 - ALL PIPES AND UTILITIES UNDER FLOOR NEED TO BE HUNG FROM STRUCTURAL STEEL.
 - REFER TO DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.