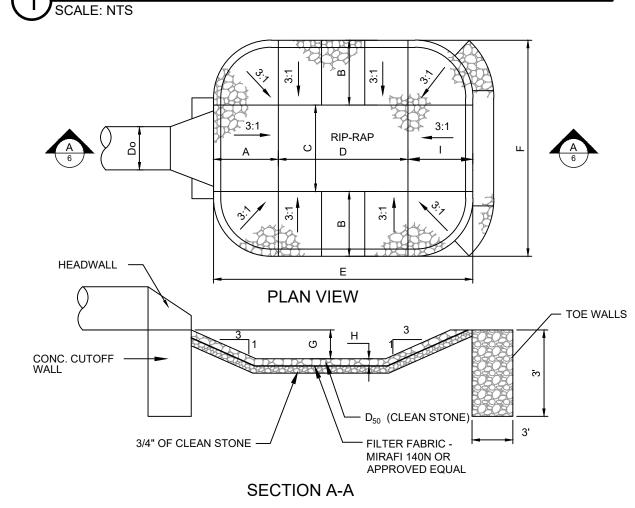


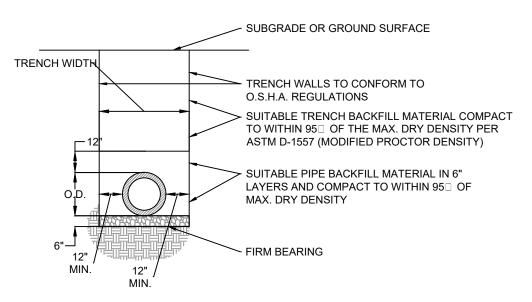
1. ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B', 4500 PSI CONCRETE WITH 5□ TO 7□ AIR ENTRAINMENT. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95 MODIFIED PROCTOR

3. STRUCTURE SHALL BE INSTALLED ON 12" THICK PAD OF  $\frac{3}{4}$ " CLEAN STONE INSTALLED ON FIRM BEARING. 4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING. 5. PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S OF 2 OR MORE PIPE OPENINGS



			SCO	UR HO	DLE DE	SIGN	TABLE					
	Structure Type		OUTLET PROTECTION									
Headwall/ LABEL	Size	25-YR.			Sc	our Hole (1	t.)			(in.)	(ft.)	(in.)
	in	cfs	Α	В	С	D	E	F	G	Н	I	<b>D</b> 50
HW-126/SH-126	48	62.70	12.00	6.00	8.00	12.00	24.00	20.00	2.00	24.00	12.00	12.00
HW-152/SH-152	15	15.00	3.75	1.88	2.50	3.75	7.50	6.25	0.63	36.00	3.75	18.00
Cubrcut/SH-200	24	1.66	6.00	3.00	4.00	6.00	12.00	10.00	1.00	12.00	6.00	6.00

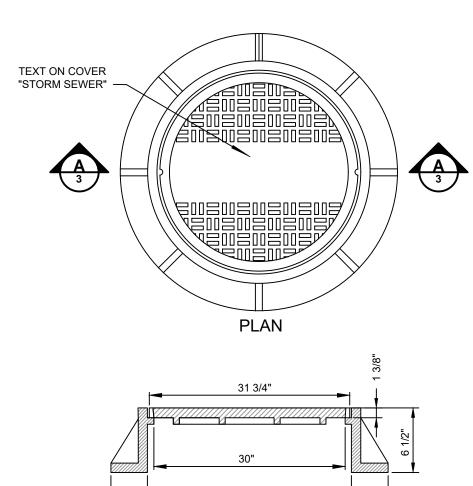
6 PREFORMED SCOUR HOLE SCALE: NTS



TRENCH WIDTH SHALL BE A MINIMUM OF 12" EACH SIDE PLUS THE OUTSIDE DIAMETER OF THE PIPE. TRENCH WIDTH SHALL NOT EXCEED THAT REQUIRED FOR PROPER INSTALLATION BACKFILL AND

ALL SUITABLE BACKFILL AND STONE BEDDING SHALL BE AS PER SPECIFICATIONS, PIPE MANUFACTURER REQUIREMENTS, AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION. WHERE TRENCH PASSES THROUGH EXISTING PAVEMENT, THE PAVEMENT SHALL BE MECHANICALLY CUT. PATCHING SHALL CONSIST OF TACKING EDGES OF EXISTING PAVEMENT, AND INSTALLING NEW PAVEMENT. COMPACTION IN ACCORDANCE WITH NJDOT SPECIFICATIONS.

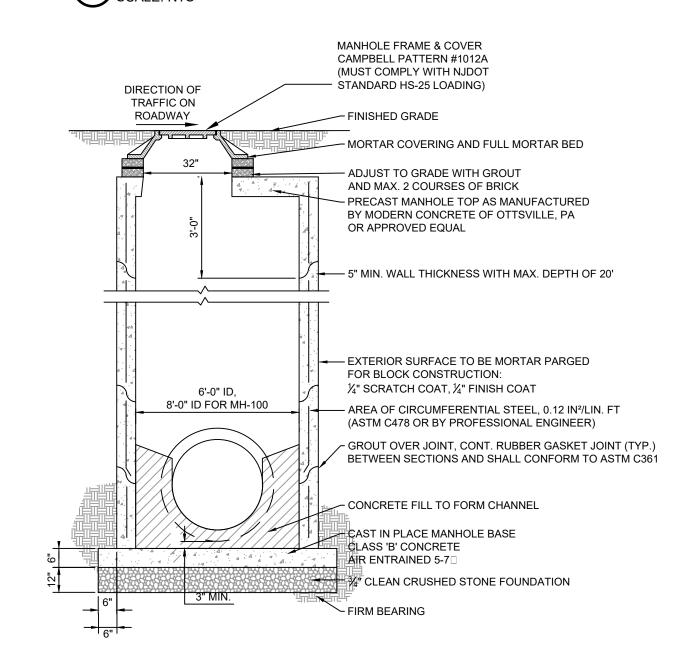
## 4. COMPACTION TO CONFORM TO ASTM D-1557. 2 HDPE PIPE TRENCH SCALE: NTS



**SECTION A-A** 

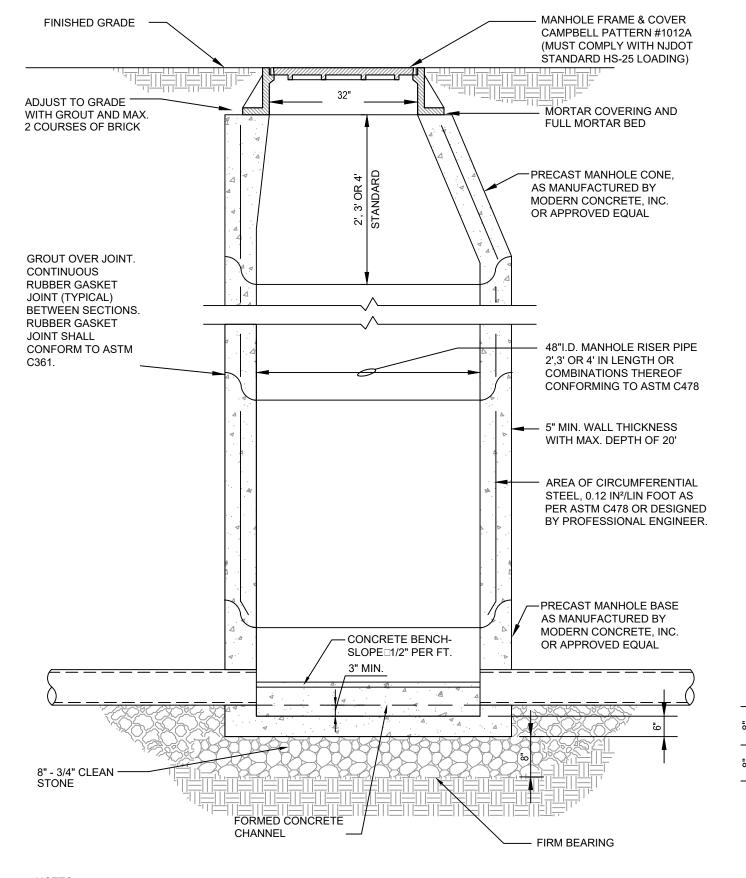
MANHOLE FRAME & COVER CAMPBELL FOUNDRY PATTERN #1012A OR APPROVED EQUAL (MUST COMPLY WITH NJDOT HS-25 LOADING).

## MANHOLE FRAME AND COVER SCALE: NTS



PRECAST UNITS, APPLY 2 COATS (18 MIL) OF CARBOLINE 50 TO EXTERNAL WALLS OR APPROVED EQUAL. ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B', 4500 PSI CONCRETE WITH 5 TO 7 AIR ENTRAINMENT. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95 MODIFIED PROCTOR DENSITY. STRUCTURE SHALL BE INSTALLED ON 12" THICK PAD OF  $\frac{3}{4}$ " CLEAN STONE INSTALLED ON FIRM BEARING. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING. 6. PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S OF 2 OR MORE PIPE OPENINGS.

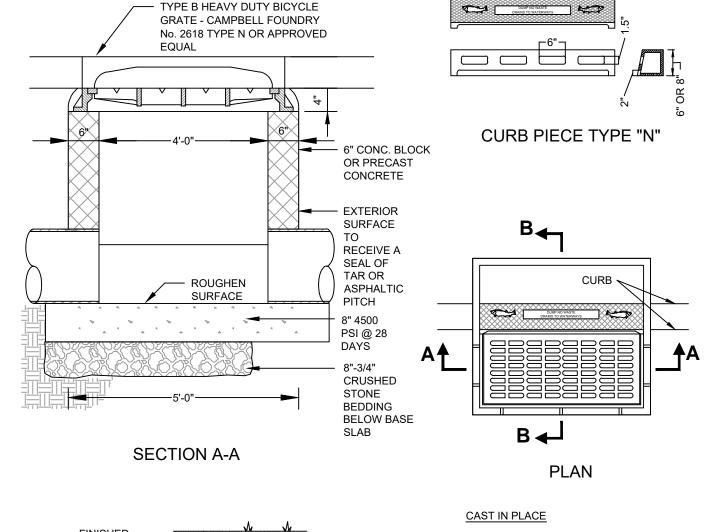
OVERSIZED STORM SEWER MANHOLE
SCALE: NTS



PRECAST UNITS, APPLY 2 COATS (18 MIL) OF CARBOLINE 50 TO EXTERNAL WALLS OR APPROVED EQUAL. ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B', 4500 PSI CONCRETE WITH 5 TO 7 AIR ENTRAINMENT. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95 MODIFIED PROCTOR DENSITY. STRUCTURE SHALL BE INSTALLED ON 8" THICK PAD OF ¾" CLEAN STONE INSTALLED ON FIRM BEARING. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL

ENGINEER LICENSED TO PRACTICE IN THE STATE, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING.

6. PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S OF 2 OR MORE PIPE OPENINGS. STANDARD STORM SEWER MANHOLE



## PAVEMEN1 ----- 3'-6" ------ EXTERIOR AND INTERIOR SURFACES TO BE MORTAR PARGED FOR BLOCK CONSTRUCTION - NJDOT CLASS B 4500 PSI @ 28 DAYS CONCRETE CHANNEL ROUGHEN SURFACE

1. POUR BASE 8" THICK ON APPROVED SUBGRADE AND LEAVE SURFACE

CLEAN STONE.

2. POUR WALLS IN ONE PIECE AND SET RUNGS POUR BENCH PRE CAST

#### 1. SUBMIT MANUFACTURER'S CUT SHEET FOR APPROVAL. 2. BASE TO BE PLACED ON 8" OF 3/4"

1. TYPE B HEAVY DUTY FLAT GRATE, AND THE FRAME CAMPBELL FOUNDRY #2618

TYPE N OR APPROVED EQUAL.

2. ALL CASTING SHALL BE AMERICAN 3. THE USE OF CORNER LEVELING IS

UNACCEPTABLE.

4. INLETS DEEPER THAN 10' MUST BE

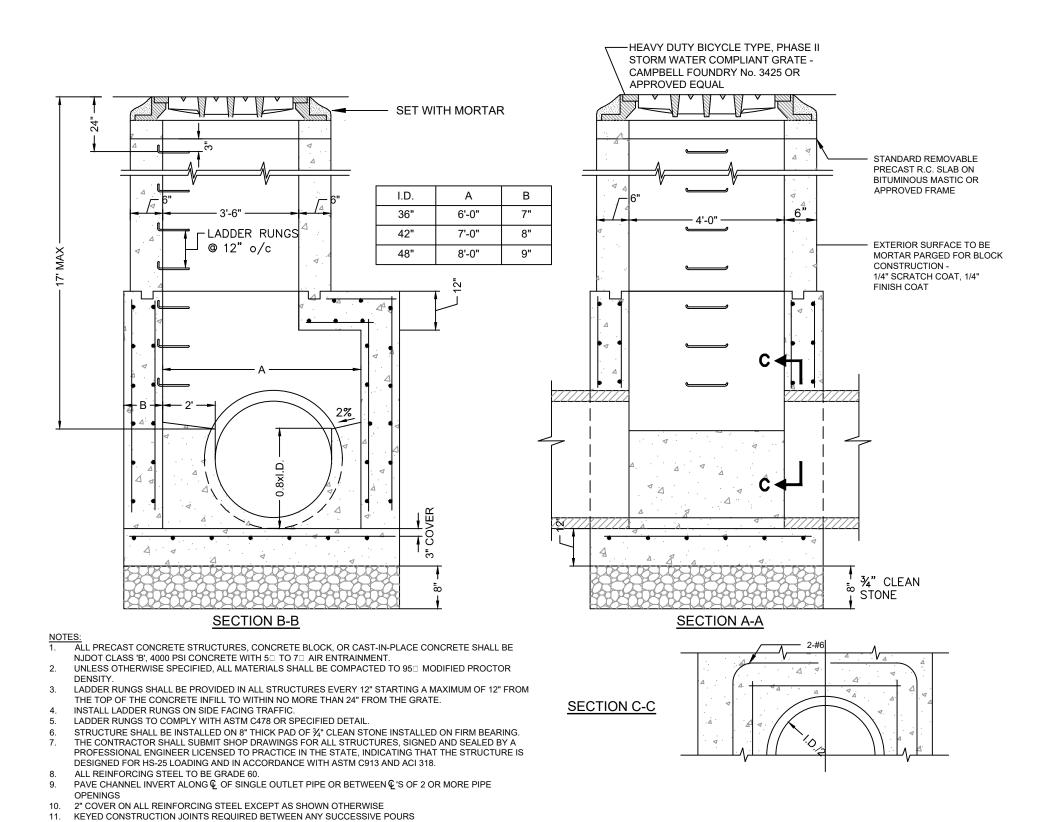
PRECAST UNITS, APPLY 2 COATS (18 MIL) OF CARBOLINE 50 TO EXTERNAL WALLS OR APPROVED EQUAL. 2. ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT

CLASS 'B', 4500 PSI CONCRETE WITH 5 TO 7 AIR ENTRAINMENT. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95□ MODIFIED PROCTOR DENSITY. 4. STRUCTURE SHALL BE INSTALLED ON 8" THICK PAD OF 3/4" CLEAN STONE INSTALLED ON FIRM BEARING.

5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING. 6. PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S OF 2 OR MORE PIPE OPENINGS.

SCALE: NTS

**SECTION B-B** 



8 TYPE "E" INLET DETAIL FOR 36" TO 48" DIA. SEWERS

CLIENT EL-ION FRANKLINE PARTNERS, LLC

3323 NE 163RD STREET, SUITE 600

MIAMI, FLORIDA 33160



DESCRIPTION

REV 2: REV FOR DEP APPLICATION

REV 3: REV PER TWP. COMMENTS

REV PER TWP. COMMENTS

REV. PER SCD COMMENTS

REV. PER TWP COMMENTS

5/19/2022 | REV 1: UPDATED PER SCD COMMEN

5 | 10/10/2022

6 02/08/2023

CONSULTANT

ORIENTATION / KEY PLAN

MOUNTAINVIEW ROAD P.O. BOX 4039 WARREN, NJ 07059 PHONE: (732) 560-9700 CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

CRAIG HERMANN, P.E. PROFESSIONAL ENGINEER N.J. LIC. NO. 45107

RIGHT 2022 PAULUS, SOKOLOWSKI AND SARTOR, LLC. - ALL RIGHTS RESERVED.

02/08/2023

PROPOSED WAREHOUSE COMPLEX BUILDINGS A & B

BLOCK 88.02, LOT 13.01 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSE

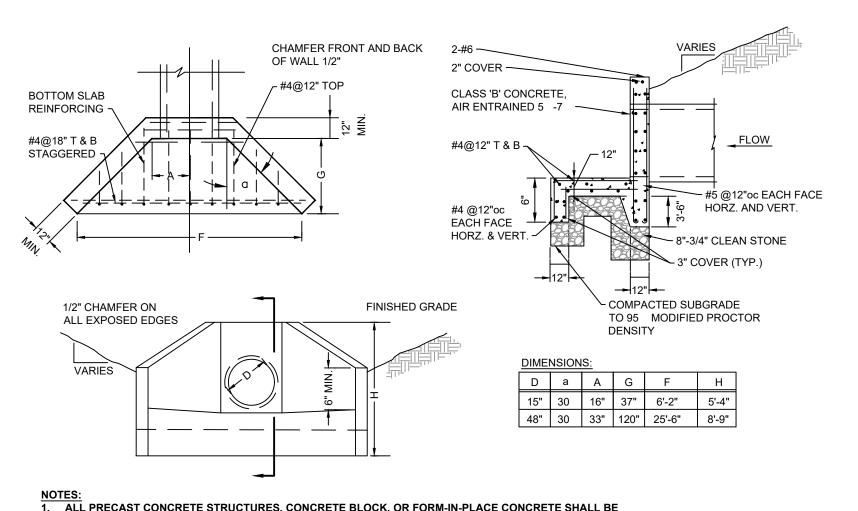
SHEET TITLE

SHEET NO.

STORMWATER **DETAILS** 

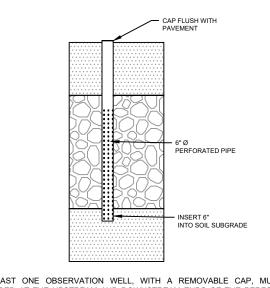
PROJECT NO.: 04596-0014 | DRAWN BY: CY/JMS AS SHOWN CHECKED BY: CH DATE: 4/8/2022 SHEET 21 OF 29

C-21



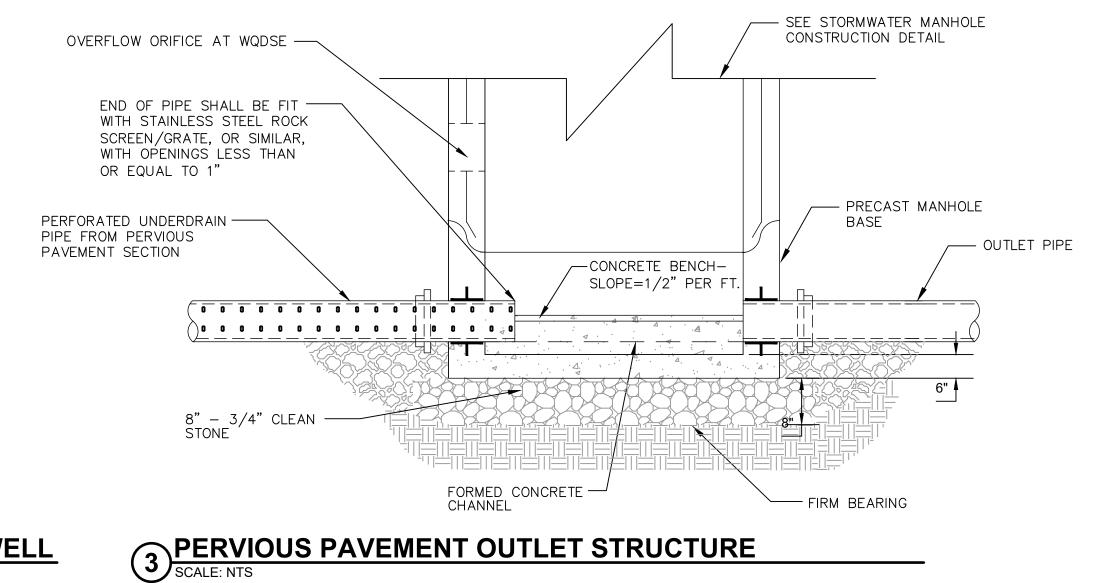
. ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B' CONCRETE WITH 5% TO 7% AIR ENTRAINMENT.

2. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR 3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE.



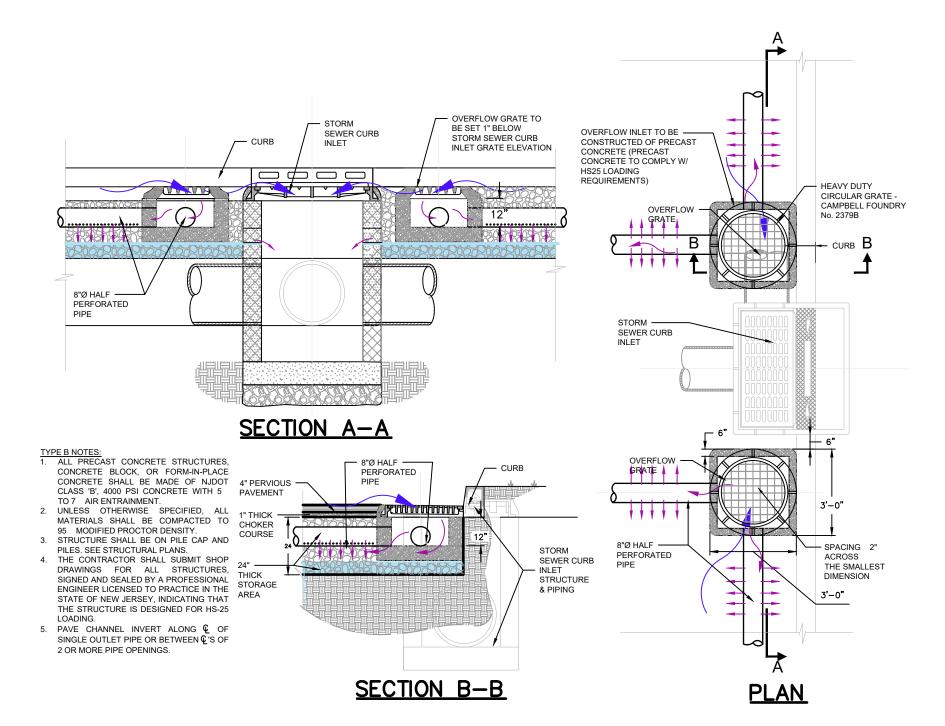
NOTE:

1. AT LEAST ONE OBSERVATION WELL, WITH A REMOVABLE CAP, MUST BE PROVIDED AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE PERFORATED SECTION OF PIPES WITHIN THE PERVIOUS PAVEMENT SECTIONS. CAP MUST BE FLUSH WITH THE SURFACE COURSE PLACED AT LEAST 3 FEET FROM ANY EDGE AND HAVE A COVER THAT CAN ACCOMMODATE HS25 LOADING. EACH OBSERVATION WELL MUST ALSO EXTEND DOWN AND CONNECT TO THE UNDERDRAIN PIPE NETWORK (USING A TEE SECTION).

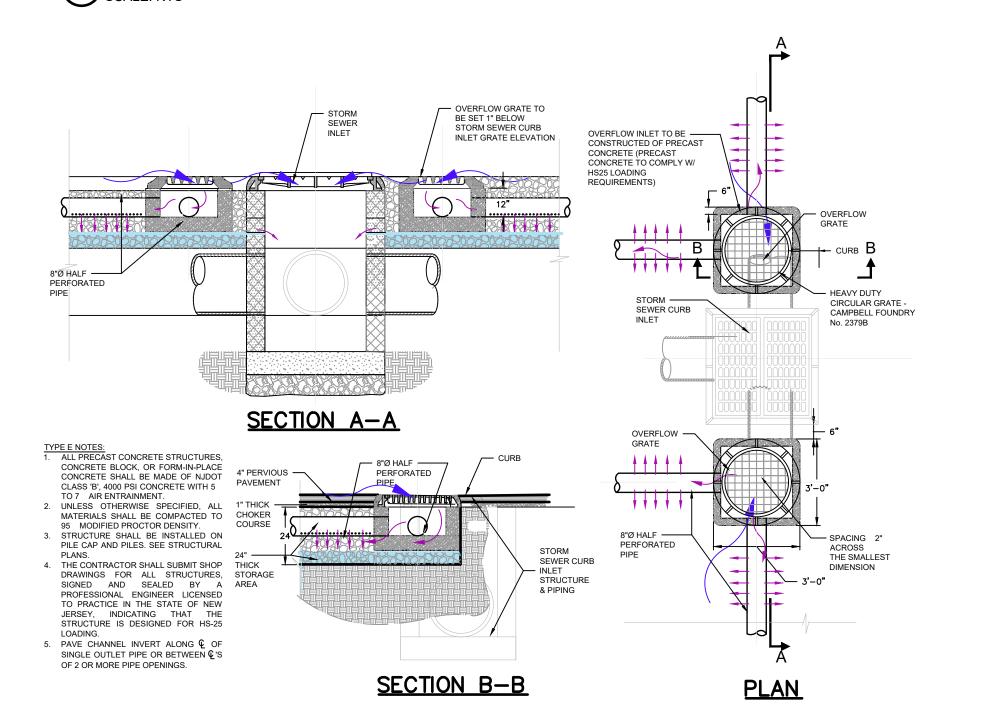


CONCRETE HEADWALL
SCALE: NTS

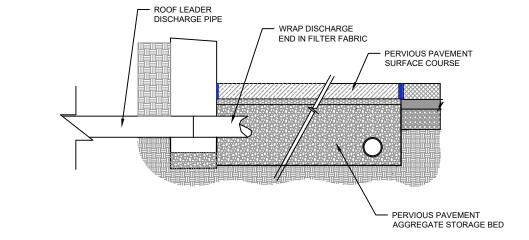
# PERVIOUS PAVEMENT OBSERVATION WELL SCALE: NTS



OVERFLOW \* CURB INLET DETAILS FOR TYPE "B" INLET
SCALE: NTS



OVERFLOW \* CURB INLET DETAILS FOR TYPE "E" INLET
SCALE: NTS



ROOF DRAIN LEADER DISCHARGE INTO PERVIOUS PAVEMENT AREAS
SCALE: NTS

REV./ ISSUE	DATE	DESCRIPTION
1	5/19/2022	REV 1: UPDATED PER SCD COMMENTS
2	6/7/2022	REV 2: REV FOR DEP APPLICATION
3	7/22/2022	REV 3: REV PER TWP. COMMENTS
4	9/27/2022	REV PER TWP. COMMENTS
5	02/08/2023	REV. PER TWP COMMENTS

CONSULTANT

ORIENTATION / KEY PLAN

CLIENT

EL-ION FRANKLINE PARTNERS, LLC 3323 NE 163RD STREET, SUITE 600 MIAMI, FLORIDA 33160



PAULUS, SOKOLOWSKI

3 MOUNTAINVIEW ROAD P.O. BOX 4039 WARREN, NJ 07059 PHONE: (732) 560-9700

ND CLIENT. THEY ARE NOT INTENDED FOR USE ON EXTENSIONS OF THIS PROJECT OR I

CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

CRAIG HERMANN, P.E. PROFESSIONAL ENGINEER N.J. LIC. NO. 45107

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SIGNATURE

02/08/2023

**PROJECT** 

PROPOSED WAREHOUSE COMPLEX **BUILDINGS A & B** 

BLOCK 88.02, LOT 13.01 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSE

SHEET TITLE

STORMWATER **DETAILS** 

PROJECT NO.: 04596-0014 AS SHOWN 4/8/2022

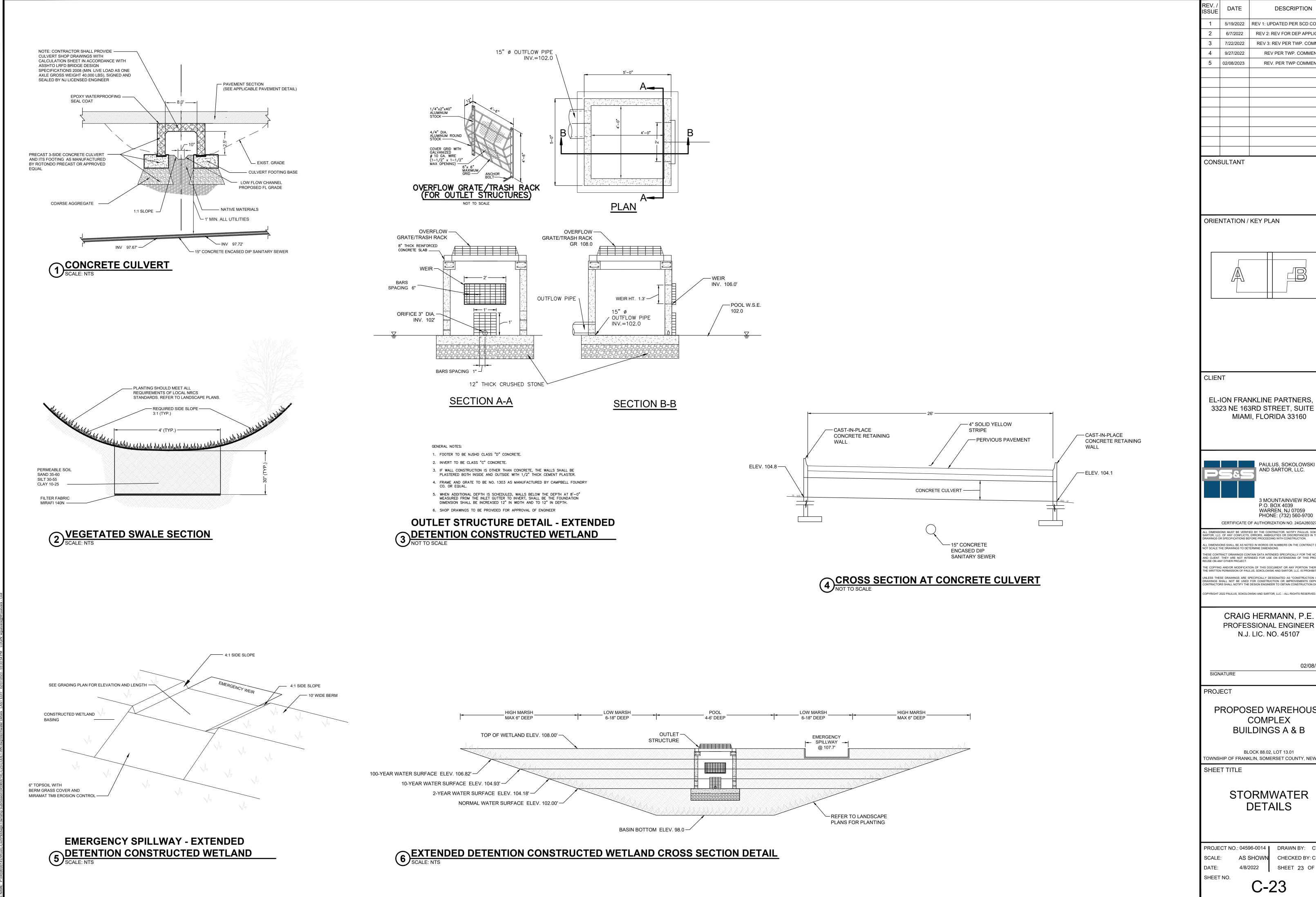
DATE: SHEET NO.

SHEET 22 OF 29

DRAWN BY: CYYJMS

CHECKED BY: CH.

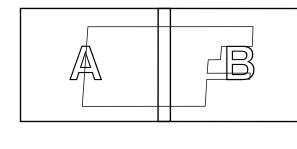
C-22



DESCRIPTION 5/19/2022 REV 1: UPDATED PER SCD COMMENT REV 2: REV FOR DEP APPLICATION 7/22/2022 REV 3: REV PER TWP. COMMENTS 4 9/27/2022 REV PER TWP. COMMENTS 5 02/08/2023 REV. PER TWP COMMENTS

CONSULTANT

ORIENTATION / KEY PLAN



CLIENT

EL-ION FRANKLINE PARTNERS, LLC 3323 NE 163RD STREET, SUITE 600 MIAMI, FLORIDA 33160



PAULUS, SOKOLOWSKI

3 MOUNTAINVIEW ROAD P.O. BOX 4039 WARREN, NJ 07059

PHONE: (732) 560-9700 CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

CRAIG HERMANN, P.E. PROFESSIONAL ENGINEER N.J. LIC. NO. 45107

PROJECT

PROPOSED WAREHOUSE COMPLEX **BUILDINGS A & B** 

02/08/2023

BLOCK 88.02, LOT 13.01 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSE

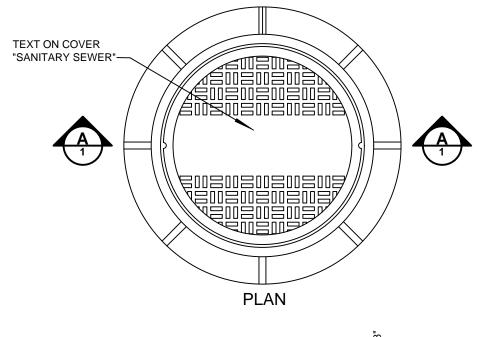
SHEET TITLE

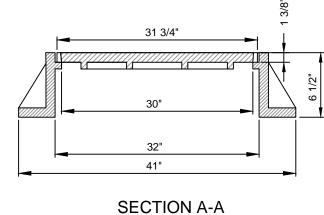
STORMWATER **DETAILS** 

SCALE:

AS SHOWN CHECKED BY: CH 4/8/2022 SHEET 23 OF 29

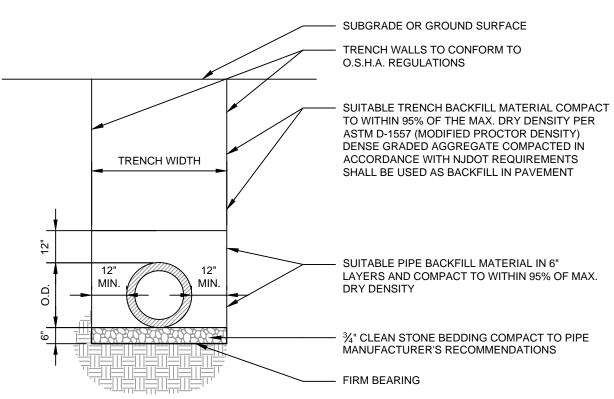
C-23





NOTE:
MANHOLE FRAME & COVER CAMPBELL FOUNDRY PATTERN #1012A OR APPROVED EQUAL (MUST COMPLY WITH NJDOT HS-25 LOADING).

## MANHOLE FRAME AND COVER

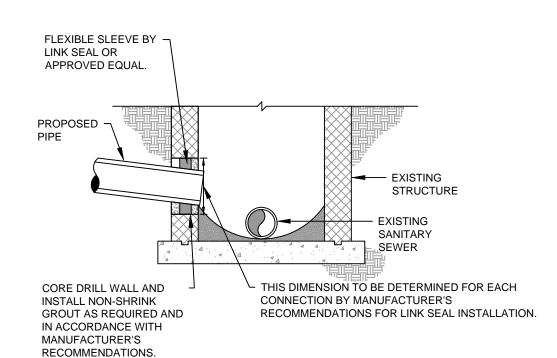


NOTES:

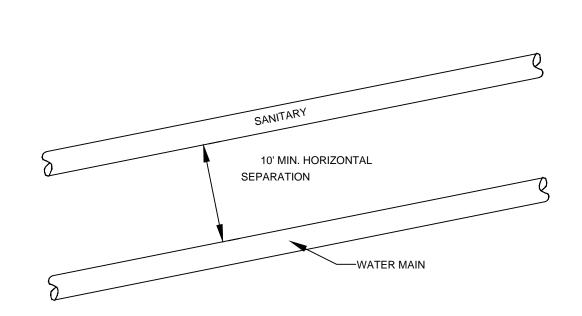
1. TRENCH WIDTH SHALL BE A MINIMUM OF 12" EACH SIDE PLUS THE OUTSIDE DIAMETER OF THE PIPE. TRENCH WIDTH SHALL NOT EXCEED THAT REQUIRED FOR PROPER INSTALLATION BACKFILL AND COMPACTION OPERATIONS. 2. ALL SUITABLE BACKFILL AND STONE BEDDING SHALL BE AS PER SPECIFICATIONS AND APPROVED BY

- THE RESIDENT ENGINEER PRIOR TO INSTALLATION. 3. WHERE TRENCH PASSES THROUGH EXISTING PAVEMENT, THE PAVEMENT SHALL BE MECHANICALLY CUT. PATCHING SHALL CONSIST OF TACKING EDGES OF EXISTING PAVEMENT, AND INSTALLING NEW PAVEMENT. COMPACTION IN ACCORDANCE WITH NJDOT SPECIFICATIONS.
- 4. COMPACTION TO CONFORM TO ASTM D-1557. 5. PIPE BEDDING AND BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER

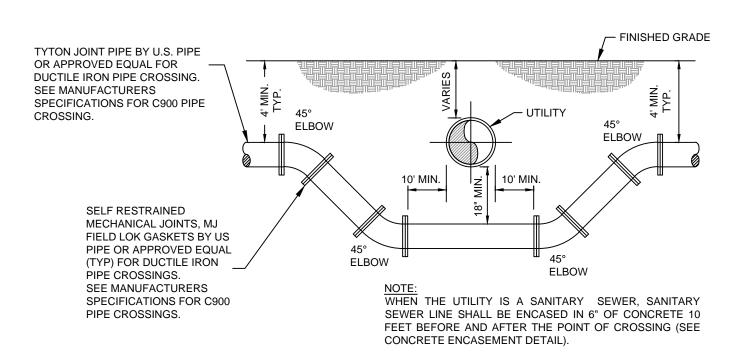
# 3 PVC PIPE TRENCH SCALE: NTS



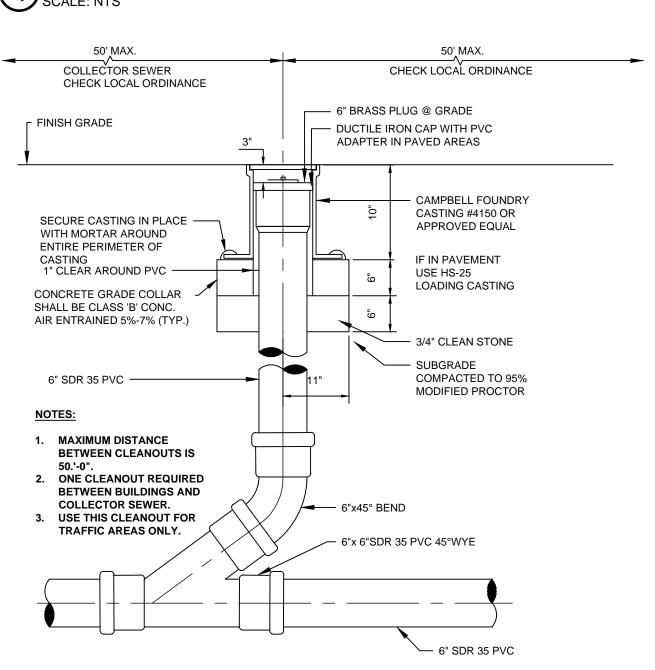
SANITARY SEWER CONNECTION TO 5 EXISTING STRUCTURE
SCALE: NTS

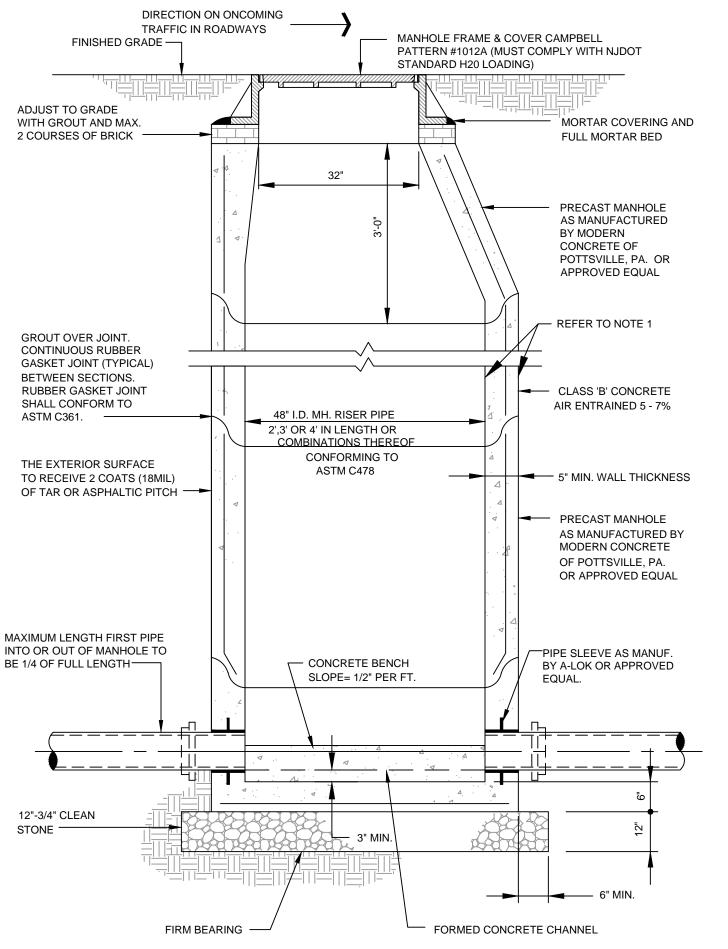


# WATER LINE AND SANITARY SEWER



## 4 UTILITY CROSSING SCALE: NTS



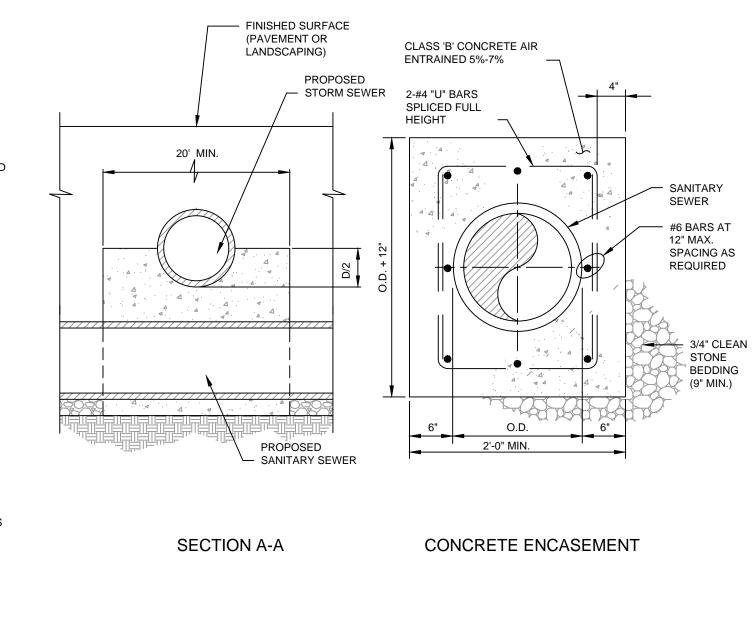


NOTES:

1. PRECAST UNITS, APPLY 2 COATS (18 MIL) OF CARBOLINE 50 TO EXTERNAL WALLS OR APPROVED 2. ALL PRECAST CONCRETE STRUCTURES, CONCRETE BLOCK, OR FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B', 4500 PSI CONCRETE WITH 5% TO 7% AIR ENTRAINMENT. 3. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR

- 4. STRUCTURE SHALL BE INSTALLED ON 12" THICK PAD OF  $\frac{3}{4}$ " CLEAN STONE INSTALLED ON FIRM BEARING. 5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES, SIGNED AND SEALED BY A
- PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE, INDICATING THAT THE STRUCTURE IS DESIGNED FOR HS-25 LOADING 6. PAVE CHANNEL INVERT ALONG OF SINGLE OUTLET PIPE OR BETWEEN 'S OF 2 OR MORE PIPE

## 5 STANDARD SANITARY SEWER MANHOLE SCALE: NTS



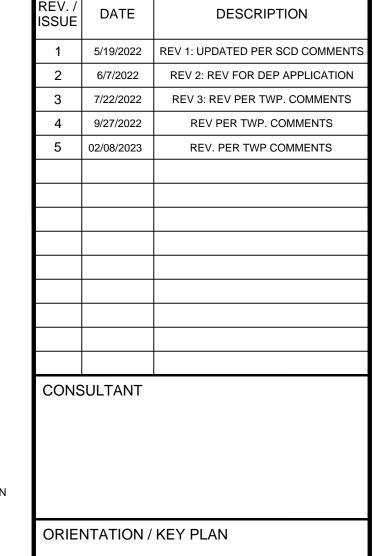
REMAINING BACKFILL PLACED IN-8" MAXIMUM LIFTS AND COMPACTED ACCORDING TO BACKFILL SPECIFICATION OF PROPOSED SUITABLE ON-SITE MATERIAL STORM/SANITARY SEWER PIPE CLASS 'B' CONCRETE AIR ENTRAINED 5%-7% SANITARY/STORM SEWER PIPE

NOTES:
1. ALL SANITARY SEWER PIPES WITHIN 18 INCHES OR LESS OF A STORM SEWER PIPE SHALL BE ENCASED IN CONCRETE.

3. ALL FORM-IN-PLACE CONCRETE SHALL BE MADE OF NJDOT CLASS 'B' CONCRETE WITH 5% TO 7% AIR

2. THE LENGTH OF ENCASEMENT SHALL BE A MINIMUM OF 10' EACH WAY FROM THE CENTERLINE OF THE

6 CONCRETE ENCASEMENT
SCALE: NTS



**CLIENT** 

EL-ION FRANKLINE PARTNERS, LLC 3323 NE 163RD STREET, SUITE 600 MIAMI, FLORIDA 33160



3 MOUNTAINVIEW ROAD P.O. BOX 4039 WARREN, NJ 07059 PHONE: (732) 560-9700 CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

LOCAL DATAWINGS CUNIAIN DATA INTENDED SPECIFICALLY FOR THE NOTED PROJ ID CLIENT. THEY ARE NOT INTENDED FOR USE ON EXTENSIONS OF THIS PROJECT OR F USE ON ANY OTHER PROJECT.

CRAIG HERMANN, P.E. PROFESSIONAL ENGINEER N.J. LIC. NO. 45107

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02/08/2023

PROJECT

SIGNATURE

SHEET TITLE

SHEET NO.

PROPOSED WAREHOUSE COMPLEX BUILDINGS A & B

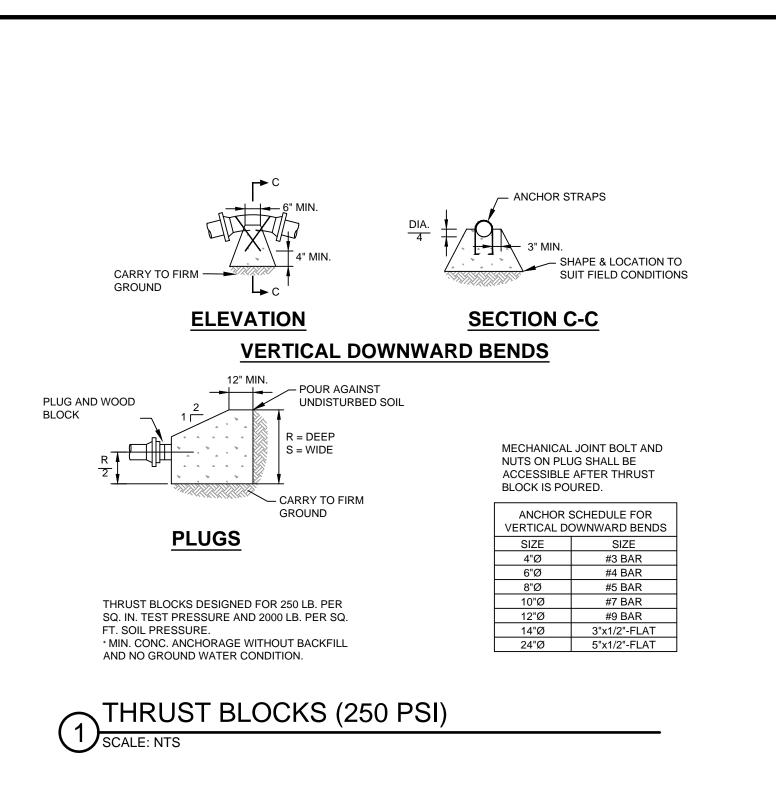
BLOCK 88.02, LOT 13.01 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSE

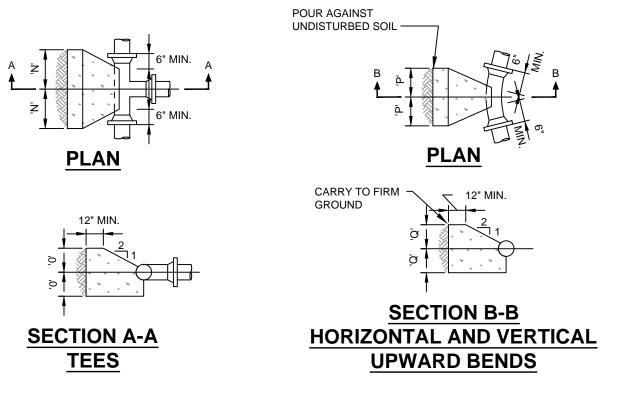
> UTILITY DETAILS (SANITARY)

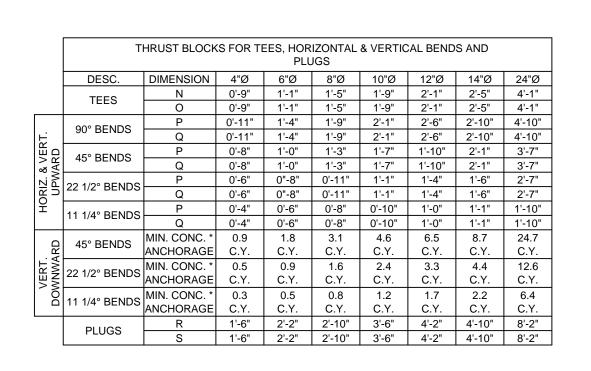
PROJECT NO.: 04596-0014 | DRAWN BY: CY/JMS AS SHOWN SCALE: CHECKED BY: CH DATE: 4/8/2022 SHEET 24 OF 29

C-24

6 SANITARY CLEANOUT SCALE: NTS





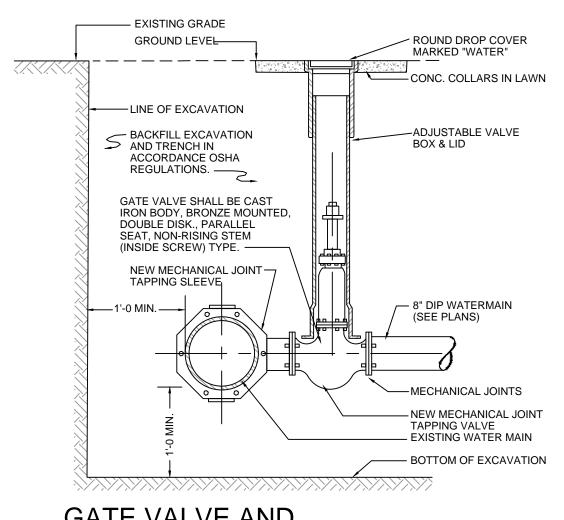


NOTE: HYDRANT & GATE VALVE TO CONFORM TO LATEST AWWA SPECS,

AND BE UL OR FM APPROVED.

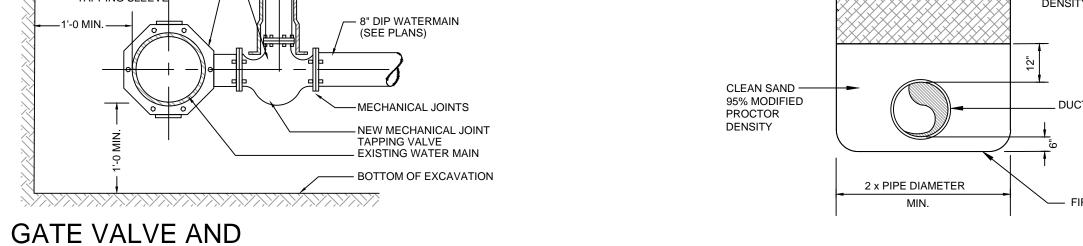
EXTERIOR OF HYDRANT ABOVE GROUND

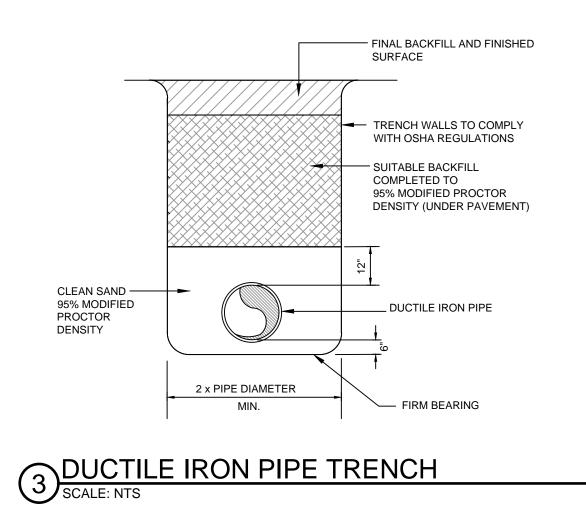
TO RECEIVE TWO FINISH COATS OF PAINT.

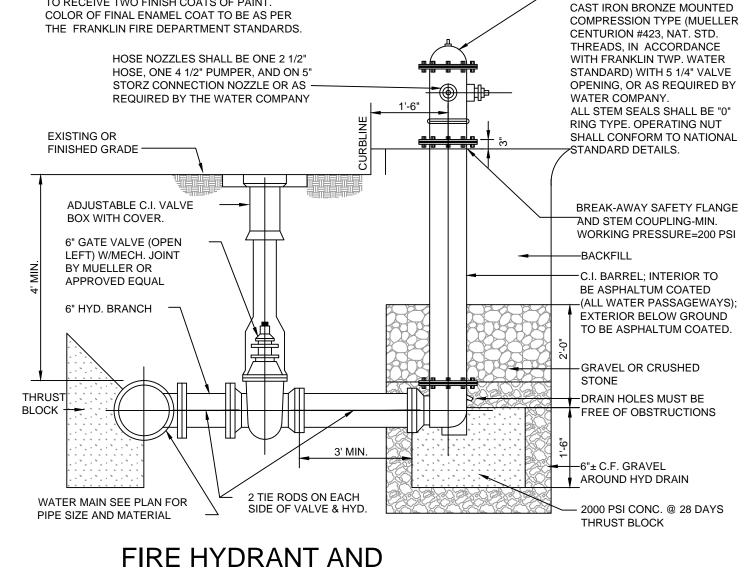


NEW WATER SERVICE CONNECTION

SCALE: NTS







AUXILIARY GATE VALVE
SCALE: NTS

FIRE HYDRANT TO BE

STANDARD AWWA THREE WAY,

CRAIG HERMANN, P.E. PROFESSIONAL ENGINEER N.J. LIC. NO. 45107

EL-ION FRANKLINE PARTNERS, LLC

3323 NE 163RD STREET, SUITE 600

MIAMI, FLORIDA 33160

PAULUS, SOKOLOWSKI

3 MOUNTAINVIEW ROAD P.O. BOX 4039

PHONE: (732) 560-9700

02/08/2023

WARREN, NJ 07059

CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

DESCRIPTION

REV 2: REV FOR DEP APPLICATION

REV 3: REV PER TWP. COMMENTS

REV PER TWP. COMMENTS

REV. PER TWP COMMENTS

5/19/2022 REV 1: UPDATED PER SCD COMMENT

7/22/2022

02/08/2023

4 9/27/2022

CONSULTANT

ORIENTATION / KEY PLAN

**PROJECT** 

PROPOSED WAREHOUSE COMPLEX BUILDINGS A & B

BLOCK 88.02, LOT 13.01 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSE

SHEET TITLE

UTILITY DETAILS

PROJECT NO.: 04596-0014 DRAWN BY: CY/JMS AS SHOWN SCALE: DATE:

SHEET NO.

CHECKED BY: CH 4/8/2022 SHEET 25 OF 29 C-25

- 1. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. 2. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE
- 3. WRAP TREE TRUNKS ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT
- 4. THIS DETAILS ASSUMES THAT THE PLANTING SPACE IS GREATER THAN 8'-SQUARE, OPEN TO THE SKY, AND NOT COVERED BY ANY PAVING OR GRATING.



2 ROOT BALL Ø

MULCH RING

6'Ø

EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL B REJECTED. DO NOT COVER THE TOP

OF THE ROOT BALL WITH SOIL

THAT ROOT BALL DOES NOT SHIFT

MULCH RING

MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND

ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE

- SET TOP OF ROOT BALL FLUSH TO GRADE OR 1-2" HIGHER IN SLOWLY DRAINING SOILS.

∠ 6" HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL

- 3" MULCH. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK

- BACKFILL WITH EXISTING SOIL. IN SANDY LOAM SOILS, ADD 20 MAX. BY VOLUME COMPOSTED ORGANIC MATERIAL TO THE EXISTING SOIL. FIRM MIXTURE AT 12" INTERVALS - THOROUGHLY SETTLE WITH WATER.

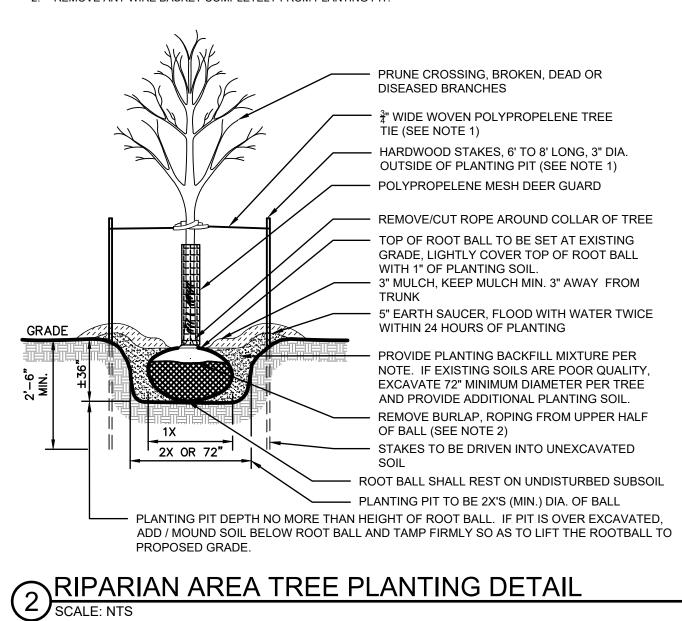
~ NATIVE SOIL REMOVE ALL TWINE, ROPE AND WIRE, AND BURLAP FROM TOP HALF OF

— 1:1 SLOPE ON SIDES OF PLANTING HOLE

 IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT. THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN 8" INTO PLANTING HOLE TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO

PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL TO PREVENT SETTLEMENT

ABOVE-GRADE STAKES AND GUY WIRES SHALL BE REMOVED AFTER ONE GROWING SEASON. REMOVE ANY WIRE BASKET COMPLETELY FROM PLANTING PIT.



#### NOTES:

- 1. PRUNE ONLY CO-DOMINANT LEADERS, BROKEN OR DEAD BRANCHES. 2. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT
- THIS DETAIL ASSUMES THAT THE PLANTING SPACE IS GREATER THAN 8 FT. SQUARE, OPEN TO THE SKY, AND NOT COVERED BY ANY PAVING OR GRATING.

FEACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.

SET TOP OF ROOT BALL FLUSH TO GRADE OR 1-2" HIGHER IN SLOWLY DRAINING SOILS.

~ 6" HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL

/ 3" MULCH. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.

BACKFILL WITH EXISTING SOIL. IN SANDY LOAM SOILS, ADD 20 MAX. BY VOLUME COMPOSTED ORGANIC MATERIAL TO THE EXISTING SOIL. FIRM MIXTURE AT 12" INTERVALS - THOROUGHLY SETTLE WITH WATER.

- REMOVE ALL TWINE, ROPE AND WIRE, AND BURLAP FROM TOP HALF OF ~ NATIVE SOIL

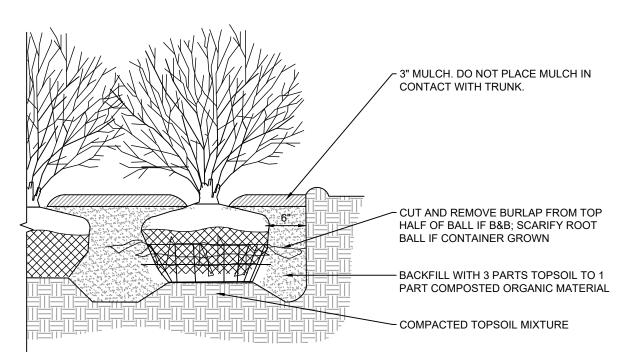
- 1:1 SLOPE ON SIDES OF PLANTING HOLE

- TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT

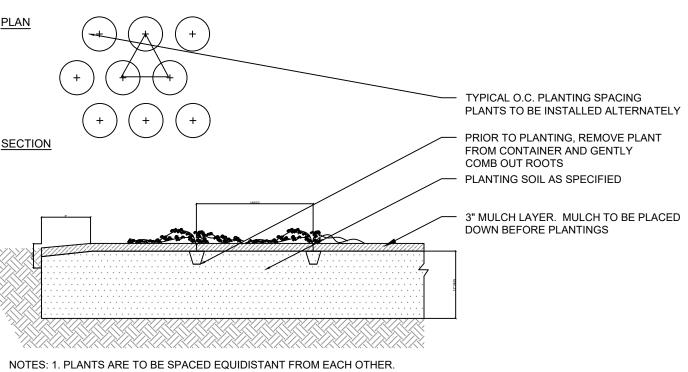
BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN 8" INTO PLANTING HOLE - PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL TO PREVENT

## 3 CONIFER PLANTING DETAIL SCALE: NTS

2 ROOT BALL Ø



SHRUB PLANTING DETAIL
SCALE: NTS



2. REFER TO PLAN AND SCHEDULE FOR SPACING OF INDIVIDUAL PLANTS. 3. REMOVE ALL WIRE. PLASTIC. TAGS OR SYNTHETIC MATERIAL FROM

PLANTS PRIOR TO PLANTING.

#### GENERAL LANDSCAPE PLANTING NOTES

- 1. NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES", 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE.
- STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES
- NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THI SAME SIZE SHOULD BE SIMILAR IN SHAPE, COLOR AND HABIT. THE LANDSCAPE ARCHITECT HAS TH RIGHT TO REJECT PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES. ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD AND MEET ALL REQUIREMENTS SPECIFIED. ANY TREE THAT LOSES THE MAIN LEADER SHALL BE REPLACED.
- THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND SUBGRADE DRAINAGE OR PERCOLATION CHARACTERISTICS, WHETHER THE SUBGRADE SOILS ARE EXISTING TO REMAIN OR IMPORTED AND PLACED. CONTRACTOR TO ENSURE POSITIVE VERTICAL DRAINAGE THROUGHOUT PLANTED AREAS. DISCREPANCIES SHALL BE ADDRESSED WITH THE PROJECT LANDSCAPE ARCHITECT PRIOR TO PURCHASING PLANT MATERIALS.
- 6 NO PLANT SHALL BE PUT INTO THE GROUND BEFORE FINISH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
- ALL PLANT INSTALLATIONS SHALL BE COMPLETED EITHER BETWEEN APRIL 1 JUNE 15 OR AUGUST 15 -NOVEMBER 1, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. SEE LAWN SEEDING DATES IN SEEDING NOTES.
- ALL FENCE AND GUIDE RAIL INSTALLATIONS SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF NY LANDSCAPE PLANTING. LAWN AND GRASSES. OR IRRIGATION WORK
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF CONSTRUCTION NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- 10. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THI RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION
- 11. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER, TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT
- 12. LANDSCAPE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED
- 13. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING AND AFTER INSTALLATION. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THI LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURTHER REVIEW PLANT MATERIALS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEM, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. THI CONTRACTOR SHALL REMOVE REJECTED PLANT MATERIALS IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
- 14. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, MISSING, 25 OR MORE DEAD, WHICH DO NOT DEVELOP FROM PLANTING STOCK, THAT APPEAR UNHEALTHY OR UNSIGHTLY AND/OR HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES DEAD, OR REJECTED FOR ANY OTHER REASON (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPÉCIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS.
- 16. DELIVERY, STORAGE AND HANDLING A. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING DELIVERY, AND WHILE STORED AT SITE.
- TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY JNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSIT. DO NOT DROP BALLED AND BURLAPPED STOCK DURING DELIVERY OR HANDLING.
- C. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOTBALL WRAPPING AND BINDING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL AT THE TIME OF PLANTING. IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8 INCHES INTO THE PLANTING HOLE. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO LOCATIONS.
- D. THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.
- 17. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND UNEVEN SURFACES PRIOR TO PLANTING OR MULCHING.
- 18. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES
- 19. CONTRACTOR'S GUARANTEE: ALL PLANTINGS AND PLANTING AREAS SHALL BE PERMANENTLY MAINTAINED. NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF TWO YEARS FOLLOWING ACCEPTANCE BY THE OWNER. THI CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO WATERING, PRUNING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE DURATION OF THE GUARANTEED PERIOD. PLANT MATERIAL FOUND TO BE UNHEALTHY DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- 20. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.
- 21. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24- HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH.
- 22. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED AND THE BURLAP SHOULD BE PULLED DOWN SO 1/3 OF THE ROOT BALL IS EXPOSED. SYNTHETIC BURLAP SHOULD BE COMPLETELY REMOVED AFTER INSTALLATION
- 23. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
- 24. ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A NATURAL MULCH FROM A LOCAL SOURCE HARVESTED IN A SUSTAINABLE MANNER THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST. MULCH SHALL BE A FIBROUS SHREDDED HARDWOOD MULCH. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.
- 25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN SHALL GOVERN.
- 26. LANDSCAPE PUNCH LIST SITE VISITS TO BE PERFORMED BY THE PROJECT LANDSCAPE ARCHITECT, IF UNDER CONTRACT FOR SUCH WORK, WILL NOT BE SCHEDULED UNTIL CONFIRMATION IS RECEIVED HAT ALL PROPOSED LANDSCAPE ITEMS HAVE BEEN INSTALLED, OR DEFICIENCIES NOTED IN THE PRIOR PUNCH LIST REPORT HAVE BEEN CORRECTED. THE PUNCH LIST SITE VISIT WILL THEN BE PERFORMED WITHIN 10 BUSINESS DAYS.

PRUNUS - ALL STONE FRUITS

SALIX - WEEPING VARIETIES

TILIA TOMENTOSA VARIETIES

SORBUS VARIETIES

QUERCUS - ALL OAKS EXCEPT Q. PALUSTRIS

27. FALL DIGGING HAZARDS: IT IS VERY RISKY TO TRANSPLANT THE FOLLOWING LIST OF TREES IN THE FALL:

BETULA VARIETIES HALSEIA VARIETIES CARPINUS VARIETIES CELTIS VARIETIES ILEX OPACA VARIETIES KOELREUTERIA PANICULATA PYRUS VARIETIES CERCIDIPHYLLUM VARIETIES LIQUIDAMBAR VARIETIES ORNUS FLORIDA & VARS LIRIODENDRON VARIETIES CRATAEGUS VARIETIES MALUS - IN LEAF **FAGUS VARIETIES** NYSSA SYLVATICA

ZELKOVA VARIETIES

THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR PLANT SURVIVAL OF THE ABOVE MATERIALS IF MOVED DURING THE FALL SEASON

#### PLANTING SOIL SPECIFICATIONS

- 1. PLANTING SOIL, ALTERNATELY MAY BE REFERRED TO AS TOPSOIL, SHOULD BE FRIABLE, FERTILE, WELL DRAINED, FREE OF DEBRIS, TOXINS, TRASH AND STONES OVER 1/2" DIA., IT SHOULD HAVE A HIGH ORGANIC CONTENT SUITABLE TO SUSTAIN HEALTHY PLANT GROWTH AND SHOULD LOOK AESTHETICALLY PLEASING HAVING NO NOXIOUS ODORS.

REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL AND TOPSOIL CRITERIA IN THIS SPECIFICATION THROUGH TESTING. CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOD, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS. IF ON-SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING, THE CONTRACTOR SHALL DEMONSTRATE, THROUGH SOIL TESTING, THAT ON-SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES PLANS AND

SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, MARSHES OR CONTAMINATED SITES.

CONTRACTOR SHALL TEST SOILS AND FURNISH SAMPLES UPON REQUEST. PACKAGED MATERIALS SHALL BE UNOPENED BAGS OR CONTAINERS, EACH BEARING A NAME, GUARANTEE, AND TRADEMARK OF THE PRODUCER, MATERIAL COMPOSITION, MANUFACTURER'S CERTIFIED ANALYSIS, AND THE WEIGHT OF THE MATERIALS. SOIL OR AMENDMENT MATERIALS SHALL BE STORED ON SITE TEMPORARILY IN STOCKPILES PRIOR TO PLACEMENT AND SHALL BE PROTECTED FROM INTRUSION OF CONTAMINANTS AND EROSION. AFTER MIXING, SOIL MATERIALS SHALL BE COVERED WITH A TARPAULIN UNTIL TIME OF ACTUAL USE.

ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING AGENCY DETERMINES THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED BY ADDING AMENDMENTS, THE CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT AND FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SITE.

- A. THE FOLLOWING TESTING SHOULD BE PERFORMED AND RESULTS GIVEN TO THE LANDSCAPE ARCHITECT FOR APPROVAL BEFORE INSTALLATION:
- a. PARTICLE SIZE ANALYSIS LOAMY SAND: 60-75 SAND, 25-40 SILT, AND 5-15 CLAY. b. FERTILITY ANALYSIS: pH (5.5-6.5), SOLUBLE SALTS (LESS THAN 2 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM, CALCIUM AND MAGNESIUM
- c. ORGANIC MATTER CONTENT: 2.5-5 IN NATIVE SOILS; UP TO 10 IN AMENDED SOILS d. TOXIC SUBSTANCE ANALYSIS
- MATERIAL DRAINAGE RATE: 60 PASSING IN 2 MINUTES, 40 RETAINED f. NOT MORE THAN 1 OF MATERIAL SHALL BE RETAINED BY A #4 SIEVE
- 3. SOIL AMENDMENT FOR PLANT MATERIAL SOIL ORGANIC CONTENT IS INADEQUATE, SOIL SHALL BE AMENDED WITH COMPOST OR ACCEPTABLE, WEED FREE, ORGANIC MATTER. ORGANIC AMENDMENT SHALL BE WELL COMPOSTED, PH RANGE OF 6-8: MOISTURE CONTENT 35-55 BY WEIGHT 100 PASSING THROUGH 1" SIEVE: SOLUBLE SALT CONTENT LESS THAN 0.5 MM HOS/CM; MEETING ALL APPLICABLE ENVIRONMENTAL CRITERIA FOR
- A. ORGANIC MATTER AS A SOIL AMENDMENT: LEAF MOLD WITH 60-90 ORGANIC CONTENT BY WEIGHT. SHREDDED LEAF LITTER, COMPOSTED FOR A MINIMUM OF 1 YR. SHOULD BE FREE OF DEBRIS, STONES OVER 1/2", WOOD CHIPS OVER 1".
- B. SOIL IN BEDS AND PLANTING ISLANDS OTHER THAN BACKFILL MATERIAL AND TOPSOIL, SHOULD BE FRIABLE, WELL DRAINED, AND FREE OF DEBRIS, INCLUDING STONES AND TRASH
- C. AMENDMENTS FOR BACK FILL IN TREE AND SHRUB PITS: a. GROUND LIMESTONE (WITH A MIN. OF 88 OF CALCIUM AND MAGNESIUM CARBONATES) USED PENDING RESULTS OF SOIL ANALYSIS.
- BRING PH LEVELS TO 5.5 MIN. TO 6.5 FOR NON-ERICACEOUS PLANTS BRING PH LEVELS TO 4.5 MIN. TO 5.5 FOR ERICACEOUS PLANTS b. TERRA-SORB (OR APPROVED EQUAL) BY 'PLANT HEALTH CARE' 800-421-9051 (SEE
- MANUFACTURER RECOMMENDATIONS) USED IN PLANTER BACKFILL MIXTURE WITH TREES c. MYCOR-ROOT SAVER (OR APPROVED EQUAL) BY 'PLANT HEALTH CARE' 800-421-9051 (SEE
- MANUFACTURER RECOMMENDATIONS) USED IN BACKFILL MIXTURE WITH TREES.
- 4. WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND. AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC CONTENT LESS THAN 2 ) OVER WHICH TOPSOIL AND PLANTING SOILS WILL BE PLACED AT DEPTHS INDICATED IN PLANS, DETAILS AND NOTES.
- 5. CLEAN SOIL FILL IN LANDSCAPE AREAS: LANDSCAPE FILL MATERIAL, BELOW PLANTING SOILS, SHALL HAVE THE PHYSICAL PROPERTIES OF A SANDY LOAM WITH AN ORGANIC CONTENT OF LESS THAN 2 AND A PH BETWEEN 5 - 7
- CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM DEPTH PLANTING SOIL LAYER IN LAWN AREAS, TWELVE INCHES (12") MINIMUM DEPTH PLANTING SOIL LAYER IN GROUNDCOVER AND PERENNIAL AREAS. EIGHTEEN INCHES (18") MINIMUM DEPTH PLANTING SOIL LAYER IN SHRUB

AREAS, AND THIRTY-SIX INCHES (36") MINIMUM DEPTH PLANTING SOIL LAYER IN TREE PLANTING

- B. SCARIFY AND/OR TILL COMPACTED SUBSOILS TO A MINIMUM DEPTH OF 6 INCHES. THOROUGHLY MIX A 6 INCH DEPTH LAYER OF PLANTING SOIL INTO THE SUBSOIL PRIOR TO PLACING PLANTING SOIL AT THE DEPTHS INDICATED ABOVE. PLANTING SOIL SHALL BE PLACED IN 12-18 LIFTS AND WATER THOROUGHLY BEFORE INSTALLING NEXT LIFT. REPEAT UNTIL DEPTHS AND FINISH GRADES
- HAVE BEEN ACHIEVED. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION. C. PLANTING SOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON-SITE PLANTING SOIL UTILIZED IN ALL

### PLANTING AREAS.

- ADJUST PH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. LOWER PH USING ELEMENTAL SULFUR ONLY. PEAT MOSS OR COPPER SULFATE MAY NOT BE USED. GROUND LIMESTONE AS A SOIL AMENDMENT MATERIAL WILL ONLY BE USED PENDING RESULTS OF SOIL ANALYSIS. PROVIDE WITH MINIMUM 88 CALCIUM AND MAGNESIUM CARBONATES AND SHALL HAVE TOTAL 100 PASSING THE 10 MESH SIEVE, MINIMUM 90 PASSING 20 MESH SIEVE, AND MINIMUM 60 PASSING 100 MESH SIEVE.
- B. ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- C. SOIL MODIFICATIONS (PENDING RESULTS OF SOIL ANALYSIS):
  a. THOROUGHLY TILL ORGANIC MATTER (LEAF COMPOST) INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.0.
- b. MODIFY HEAVY CLAY OR SILT (MORE THAN 40 CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30 BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60 OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTING ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES.
- c. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85 SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30 OF THE TOTAL MIX.

#### LAWN SEED MIX

PEAT MOSS MAY NOT BE USED AS ORGANIC MATTER AMENDMENT.

- 1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 1/2" DIAMETER.
- 2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
- SEEDING RATES:

PERENNIAL RYEGRASS 0.25 LB/1000 SQ FT KENTUCKY BLUEGRASS 1.25 LB/1000 SQ FT RED FESCUE 1.25 LB/1000 SQ FT SPREADING FESCUE 0.5 LB/1000 SQ FT

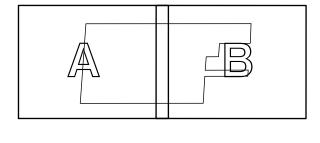
- 4. SEEDING DATES FOR THIS MIXTURE SHALL BE BETWEEN MARCH 15TH TO MAY 15TH OR AUGUST 15TH TO OCTOBER 30TH.
- 5. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL A STAND OF COVER IS ESTABLISHED AND FOUND ACCEPTABLE TO THE OWNER. SEE LAWN WATERING SCHEDULE NOTES.

5/19/2022 REV 1: UPDATED PER SCD COMMENT **REV 2: REV FOR DEP APPLICATION** 6/7/2022 REV 3: REV PER TWP. COMMENTS 7/22/2022 4 9/27/2022 REV PER TWP. COMMENTS 02/08/2023 REV. PER TWP COMMENTS

DESCRIPTION

**CONSULTANT** 

ORIENTATION / KEY PLAN



CLIENT

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PAULUS, SOKOLOWSKI AND SARTOR, LLC

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CRAIG HERMANN, P.E. PROFESSIONAL ENGINEER N.J. LIC. NO. 45107

02/08/2023 SIGNATURE

PROJECT

SHEET TITLE

PROPOSED WAREHOUSE COMPLEX BUILDINGS A & B

BLOCK 88.02, LOT 13.01 OWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSE

LANDSCAPE **NOTES AND DETAILS** 

ROJECT NO.: 04596-0014 AS SHOW

DATE:

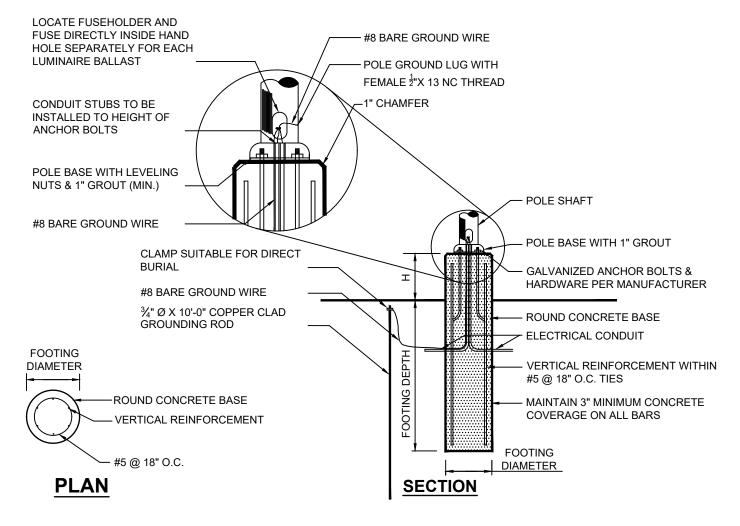
CHECKED BY: CH SHEET 26 OF 29 4/8/2022 SHEET NO.

DRAWN BY: CY/JMS

PERENNIAL PLANTING DETAIL

THE PHOTOMETRIC TEMPLATE REPRESENTS LIGHT THROW FOR EACH INDIVIDUAL FIXTURE AND DOES NOT REPRESENT LIGHT COMING FROM

#### PHOTOMETRIC LIGHTING TEMPLATE



NOTE:

	MOUNTING	FOOTING	FOOTING	VERTICAL	'H'		
١	HEIGHT	DEPTH	DIAMETER	REINFORCEMENT	PAVEMENT	LAWN	
	22'	4'-6"	2'-0"	6 #5 BARS	2'-6"	6"	

#### NOTES:

- 1. POSTS TO BE EMBEDDED IN THE CONCRETE FOOTINGS PER THE MANUFACTURERS 2. EACH STANDARD TO BE PROTECTED AGAINST LIGHTNING WITH AN INTERCONNECTED GROUND ROD.
- THIS ROD SHALL BE BONDED PER SECTION NUMBER 250-86, N.E.C. 3. CONTRACTOR TO ENSURE CONCRETE POLE BASES ARE POURED / PLACED ABSOLUTELY VERTICAL &
- 4. POLE BASE SHALL BE ONE CONTINUOUS POUR. EXPOSED PORTION OF BASE SHALL BE HAND-RUBBED
- 5. CONTRACTOR TO COMPACT SUBGRADE AROUND POLE BASE PER EARTHWORK SPECIFICATIONS GEOTECH REPORT
- 6. THE INFORMATION ILLUSTRATED IN THE LIGHT POLE FOUNDATION DETAIL HAS BEEN PROVIDED FOR GENERAL REFERENCE AND PRELIMINARY COST ESTIMATE PURPOSES. LIGHT POLE FOUNDATIONS SHOULD BE DESIGNED AND DETAILED BY A LICENSED STRUCTURAL ENGINEER BASED ON EXISTING SOIL CONDITIONS, LOCAL DESIGN STANDARDS AND MANUFACTURERS RECOMMENDATIONS. 7. POLES TO BE SQUARE TAPERED STEEL TO MATCH EXISTING POLES ON SITE. FINISH TO MATCH

## LIGHT POLE BASE

# **D-Series Size 1** LED Area Luminaire

Weight (max):

Number			
Notes			
Туре			

Installation Instructions

aside for reinstallation.

7. Proceed to section C.

Mounting block

**(▲** LITHONIA LIGHTING

5.96"

**VA LITHONIA LIGHTING** 

Lockwashers

SECTION B- AS2, AST2, MR2, MRT2, CSX, DSX

1. Prepare the cover plate by attaching the Aeris mounting block to the cover plate using (2) 3/8" diameter by 1-1/4"

into the threaded steel bar stock. Use a 9/16" socket or wrench and tighten securely (Figure 1B).

3. Unhook safety-restraining cable. Loosen the 10-24 screw at the neck end of the doorframe 1/2 turn.

2. Open doorframe by loosening the (2) captive doorframe screws using 3/16" allen wrench.

locking hex head bolt inside the arm with a 9/16" socket to 20-30 ft. lbs. torque.

bolts with lockwashers by inserting the bolts and washers into the mounting block through the cover plate and thread

4. Remove door by sliding the hinge latch up and away from hinge, close door slightly and lift door assembly off. Set

5. Pull the wires from the luminaire through the mounting block on the cover plate and through the center hole of the

threaded steel bar. Place luminaire onto the mounting block, being sure the wires are not being pinched. Tighten the

6. Re-install the door assembly by placing hinge of doorframe on fixed hinge rod of luminaire. Slide hinge latch on the

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WALL MOUNT DRILLING TEMPLATE # 9

AERIS™ OMERO)) (SX1 DSX1

**Building-Mounted Luminaire (not available for CSX2)** 

Figure 1B

Base plate (See Sec-

tion A for installation)

Hex set screws

Part Number: RJ521505 Rev C

Revision Date: 3-11-2020

doorframe over hinge rod. Tighten 10-24 hinge latch screw. Reinstall safety-restraining cable (from step 3).

Threaded steel bar provided

with luminaire.

WBA 2018

Introduction The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Orderin	g Information		<b>EXAMPLE:</b> DSX1 LED PT	7 40K T3M N	/IVOLT SPA NLTAIR2 PIRHN DDBXI
DSX1 LED					
	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P4¹ P7¹ P2 P5¹ P8 P3 P6¹ P9¹ Rotated optics P10² P12² P11² P13¹²	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type II short T3M Type II medium T4M Type IV medium T4M Type IV medium T5M Forward throw medium T5V Type IV very short 3 T5S Type IV short 3 T5W Type V wide 3 T5W Type V wide 3 T5W Type V wide 3 T5W Type IV medium T6W T9W TSW TSW Type V wide 3 T6W TSW TSW TSW TSW TSW TSW TSW TSW TSW TS	MVOLT 5 XVOLT (277V-480V) 6-7.8 120 9 208 9 240 9 277 9 347 9 480 9	Shipped included SPA Square pole mounting RPA Round pole mounting <sup>10</sup> WBA Wall bracket <sup>3</sup> SPUMBA Square pole universal mounting adaptor <sup>11</sup> RPUMBA Round pole universal mounting adaptor <sup>9</sup> Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>12</sup>

			Other		Finish (requ	
Shipped installed  NLTAIR2	PIR PIRH PIR1FC3V PIRH1FC3V FAO	High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 5fc <sup>20,271</sup> High/low, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 5fc <sup>20,271</sup> High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 1fc <sup>20,271</sup> Bi-level, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 1fc <sup>20,271</sup> Field adjustable output <sup>20,271</sup>	HS SF DF L90 R90 HA BAA	ped installed  House-side shield <sup>23</sup> Single fuse (120, 277, 347V) <sup>9</sup> Double fuse (208, 240, 480V) <sup>9</sup> Left rotated optics <sup>2</sup> Right rotated optics <sup>2</sup> 50°C ambient operations <sup>1</sup> Buy America(n) Act Compliant ped separately  Bird spikes <sup>24</sup> External glare shield	DDBXD DBLXD DNAXD DWHXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white

A LITHONIA	One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com	D\$X1-
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LIGHTING.	© 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.	P

# 2 LIGHT FIXTURE TYPES 'A' THROUGH 'F' SCALE: NTS

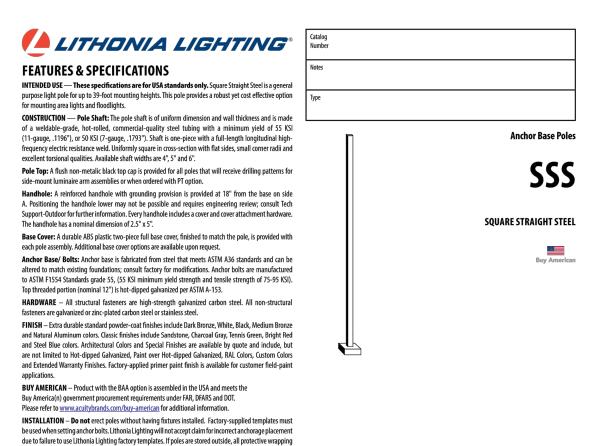
for the foundation design.

WARRANTY — 1-year limited warranty. Complete warranty terms located at:

**NOTE**: Actual performance may differ as a result of end-user environment and application.

www.acuitybrands.com/support/warranty/terms-and-conditions

Specifications subject to change without notice.



## 3 LIGHT POLE TYPES 'A' THROUGH 'C' SCALE: NTS

#### LIGHTING NOTES

#### **GENERAL**

- 1. POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP/ DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION. FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS.NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON
- 2. LIGHT LEVEL POINT SPACING IS 20 FT. LEFT TO RIGHT AND 20 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING

#### COMPLIANCE

- 3. ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY. AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
- 4. LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.

#### COORDINATION

- 5. CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.
- 6. REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
- 7. CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
- 8. INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
- 9. CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

#### POLES AND FOOTINGS

- 10. PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST-IN-PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.
- 11. CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.
- 12. POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA.

#### WALL MOUNTED FIXTURES

- 13. CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER.
- 14. INSTALLATION AND ELECTRICAL CONNECTIONS FOR WALL MOUNTED FIXTURES TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, UTILITY AND SITE PLANS AND TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

#### ADJUSTMENT AND INSPECTION

- 15. CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
- 16. CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
- 17. CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES. TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

#### REQUIREMENTS FOR ALTERNATES

- 18. ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS:
  - A. ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR B. COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA
  - WHICH INDICATES, BY ISOFOOTCANDLE, THE SYSTEM'S PERFORMANCE. C. A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS; IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY
  - LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE. FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION D. POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE

ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS.

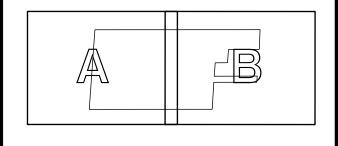
- SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. E. THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED.
- F. A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.

5/19/2022 REV 1: UPDATED PER SCD COMMENT 6/7/2022 **REV 2: REV FOR DEP APPLICATION** REV 3: REV PER TWP. COMMENTS 7/22/2022 4 9/27/2022 REV PER TWP. COMMENTS 5 02/08/2023 REV. PER TWP COMMENTS

DESCRIPTION

CONSULTANT

ORIENTATION / KEY PLAN



**CLIENT** 

EL-ION FRANKLINE PARTNERS, LLC 3323 NE 163RD STREET, SUITE 600 MIAMI, FLORIDA 33160



PAULUS, SOKOLOWSKI AND SARTOR, LLC

> B MOUNTAINVIEW ROAD P.O. BOX 4039

WARREN, NJ 07059 PHONE: (732) 560-9700 CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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CRAIG HERMANN, P.E. PROFESSIONAL ENGINEER N.J. LIC. NO. 45107

02/08/2023

DATE

**PROJECT** 

**SIGNATURE** 

PROPOSED WAREHOUSE COMPLEX **BUILDINGS A & B** 

BLOCK 88.02, LOT 13.01 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSE

SHEET TITLE

LIGHTING

NOTES AND DETAILS

DRAWN BY: CY/JMS

PROJECT NO.: 04596-0014 AS SHOW

DATE:

CHECKED BY: CH 4/8/2022 SHEET 27 OF 29 SHEET NO.

BUILDING-MOUNTED FIXTURE BRACKET ASSEMBLY
SCALE: NTS

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NOTE: This drawing is NOT to scale and should be used for dimen-

TD-DRILL-9