

DESCRIPTION

Lot 1, Block 1, INTERNATIONAL AIRPORT PARK ADDITION, according to the recorded plat thereof, Hennepin County, Minnesota.

TOGETHER WITH

Outlot A, INTERNATIONAL AIRPORT PARK 3RD ADDITION, according to the recorded plat thereof, Hennepin County, Minnesota.

PROPERTY SUMMARY

- Subject property's addresses and property identification numbers are:
Lot 1, Block 1: 7901 34th Ave S
Outlot A: 3500 American Blvd E
06-027-23-21-0003
06-027-23-21-0008
- The gross area of the subject property is 6.775 Acres or 295,138 Square Feet. Areas of individual lots are:
Lot 1, Block 1: 4.970 Acres
Outlot A: 1.805 Acres
216,493 Square Feet
78,645 Square Feet
- The subject property is zoned HK-R, High Intensity Mixed Use with Residential, per City of Bloomington zoning map dated 01/24/2017.

BENCHMARKS

- The vertical datum is based on NAVD83. The originating bench marks are BERM and 2785 AV, both referenced from the MnDOT Geodetic Database.

BENCHMARK #1
Top nut of hydrant at northeast corner of property. Elev.=826.31
BENCHMARK #2
Top nut of hydrant at southwest corner of building on surveyed property. Elev.=825.90
BENCHMARK #3
Top nut of hydrant at south line of surveyed property. Elev.=819.32
BENCHMARK #4
Top nut of hydrant at southeast corner of surveyed property. Elev.=816.51

SURVEY NOTES

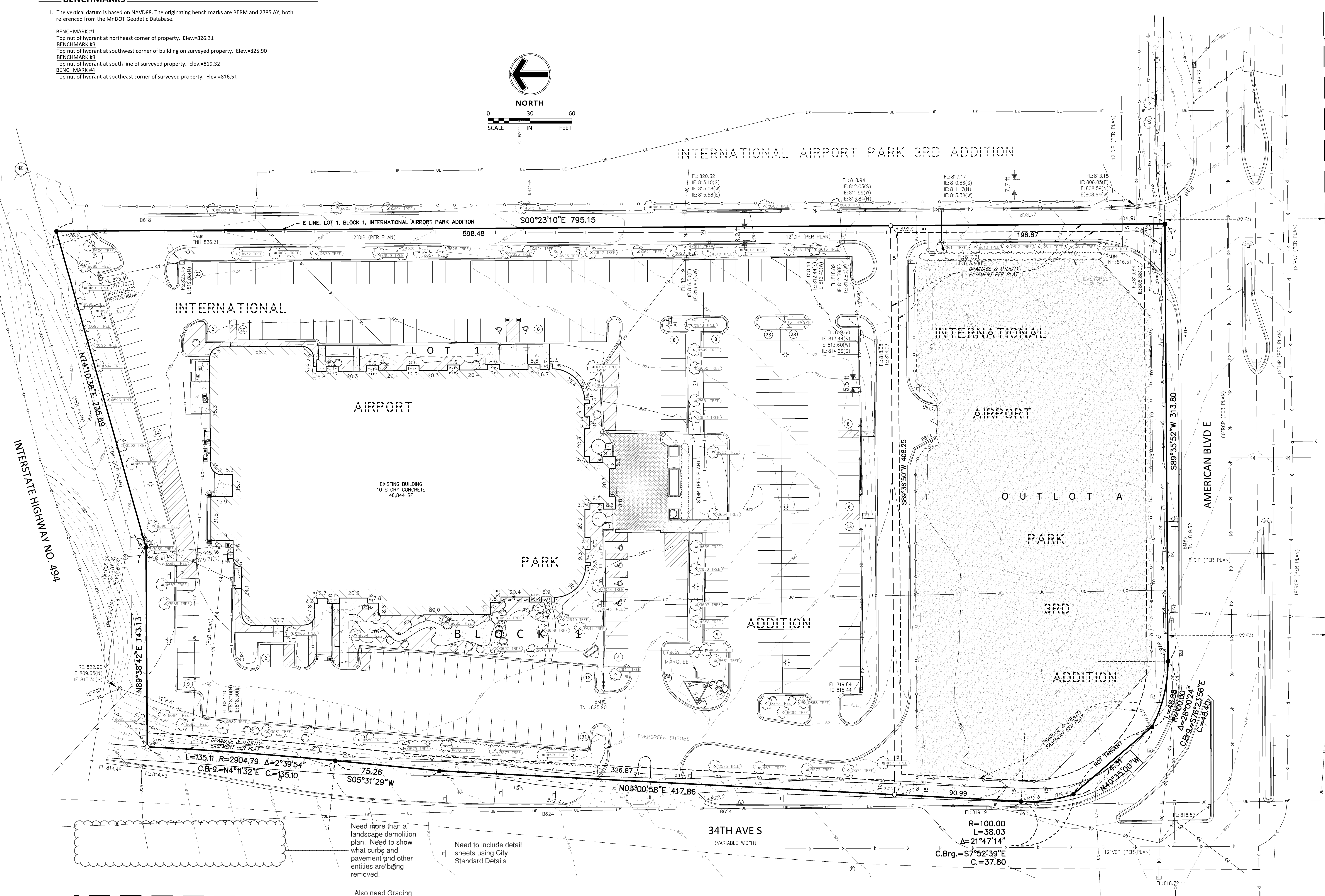
- The bearing system for this survey is based on the east line of Lot 1, Block 1, INTERNATIONAL AIRPORT PARK ADDITION having an assumed bearing of South 00 degrees 23 minutes 10 seconds East.
- This survey was prepared without the benefit of a title commitment or abstract and the surveyor has made no independent search for easements of record, encumbrances, restrictive covenants, ownership title evidence or any other facts that an accurate title search may disclose. Therefore, this survey may be revised by showing that which would be cited in a title commitment and then illustrated on the survey.
- A Gopher State One Call (GSOC) request was placed on 01/27/2017, under Ticket Number 170270554 for utility locations on this site. The underground utility locations, shown hereon, if any, are based upon locations from those utility providers that actually performed a locate as a result of this request. Utility suppliers often do not respond to these requests but may provide ambiguous maps, plans, and drawings in lieu of physical location. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. Utility information shown hereon, if any, is a compilation of this map information and those visible utilities that were located during the survey field work. The surveyor further does not warrant that the underground utilities shown hereon, if any, are in the exact location as indicated, although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities. Pursuant to MS 236.D contact Gopher State One Call at (855-454-0003) prior to any excavation.
- Field work was completed on 02/13/2017.
- The building(s) and exterior dimensions of the outside wall at ground level are shown on the survey. It may not be the foundation wall.

PL201700055
PL2017-55

LEGEND

- FOUND MONUMENT
- SET MONUMENT
- MAINED LS 21729
- GATE VALVE / HYDRANT
- SANITARY MANHOLE
- CLEAN OUT
- STORM MANHOLE
- STORM CATCH BASIN
- TRANSFORMER
- LIGHT
- GROUND LIGHT
- GUARD POST
- SIGN
- GAS METER
- ELECTRIC MANHOLE
- ELECTRIC METER
- TELEPHONE PEDESTAL
- FLAG POLE
- BOUNDARY LINE
- RIGHT-OF-WAY LINE
- UNDERLYING / ADJACENT LOT
- SECTION LINE
- DEED DISTANCE
- WATERMAIN
- SANITARY SEWER
- STORM SEWER
- UNDERGROUND ELECTRIC
- UNDERGROUND GAS
- OVERHEAD ELECTRICAL WIRE
- CHAIN LINK FENCE
- WOOD FENCE
- RETAINING WALL
- SPOT ELEVATION
- CONTOUR
- EASEMENT LINE
- TREE LINE
- CONCRETE CURB
- BUILDING LINE
- BUILDING CANOPY
- BITUMINOUS SURFACE
- CONCRETE SURFACE
- BRICK PAVEMENT SURFACE
- LANDSCAPE MULCH SURFACE
- GRAVEL SURFACE
- NO PARKING SURFACE
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- REGULAR PARKING
- STALL COUNT

VICINITY MAP



Tree Tag List		
Tree Number	Size	Tree Name
568	4	Spruce - Colorado (Picea pungens)
569	4	Spruce - Colorado (Picea pungens)
570	4	Spruce - Colorado (Picea pungens)
571	15	Pine - Red (Pinus resinosa)
572	13	Locust - Honey (Gleditsia tricanthos)
573	9	Locust - Honey (Gleditsia tricanthos)
574	9	Locust - Honey (Gleditsia tricanthos)
575	9	Locust - Honey (Gleditsia tricanthos)
576	13	Locust - Honey (Gleditsia tricanthos)
577	12	Locust - Honey (Gleditsia tricanthos)
578	12	Locust - Honey (Gleditsia tricanthos)
579	13	Locust - Honey (Gleditsia tricanthos)
580	14	Locust - Honey (Gleditsia tricanthos)
581	21	Locust - Honey (Gleditsia tricanthos)
582	20	Locust - Honey (Gleditsia tricanthos)
583	24	Pine - Red (Pinus resinosa)
584	13	Pine - Red (Pinus resinosa)
585	16	Pine - Red (Pinus resinosa)
586	11	Pine - Red (Pinus resinosa)
587	12	Pine - Red (Pinus resinosa)
588	12	Pine - Red (Pinus resinosa)
589	14	Pine - Red (Pinus resinosa)
590	20	Blackwood (Tilia americana)
591	11	Crook Apple (Malus spp.)
592	13	Crook Apple (Malus spp.)
593	22	Ash - Green (Fraxinus pennsylvanica)
594	13	Pine - Red (Pinus resinosa)
595	12	Pine - Red (Pinus resinosa)
596	12	Pine - Red (Pinus resinosa)
597	15	Pine - Red (Pinus resinosa)
598	13	Pine - Red (Pinus resinosa)
599	14	Pine - Red (Pinus resinosa)
600	13	Pine - Red (Pinus resinosa)
601	20	Blackwood (Tilia americana)
602	6	Aspen - Quaking (Populus tremuloides)
603	5	Aspen - Quaking (Populus tremuloides)
604	6	Aspen - Quaking (Populus tremuloides)
605	10	Aspen - Quaking (Populus tremuloides)
606	6	Aspen - Quaking (Populus tremuloides)
607	4	Aspen - Quaking (Populus tremuloides)
608	7	Aspen - Quaking (Populus tremuloides)
609	5	Maple - Red (Acer rubrum)
610	5	Maple - Red (Acer rubrum)
611	5	Maple - Red (Acer rubrum)
612	6	Maple - Red (Acer rubrum)
613	6	Maple - Red (Acer rubrum)
614	5	Maple - Red (Acer rubrum)
615	13	Blackwood (Tilia americana)
616	7	Maple - Amur (Acer ginnale)
617	13	Ash - Green (Fraxinus pennsylvanica)
618	4	Crook Apple (Malus spp.)
619	14	Pine - Red (Pinus resinosa)
620	14	Pine - Red (Pinus resinosa)
621	14	Pine - Red (Pinus resinosa)
622	8	Crook Apple (Malus spp.)
623	15	Pine - Red (Pinus resinosa)
624	14	Blackwood (Tilia americana)
625	13	Blackwood (Tilia americana)
626	12	Pine - Red (Pinus resinosa)
627	10	Pine - Red (Pinus resinosa)
628	11	Pine - Red (Pinus resinosa)
629	11	Pine - Red (Pinus resinosa)
630	13	Ash - Green (Fraxinus pennsylvanica)
631	13	Ash - Green (Fraxinus pennsylvanica)
632	7	Maple - Amur (Acer ginnale)
633	21	Pine - Red (Pinus resinosa)
634	16	Ash - Green (Fraxinus pennsylvanica)
635	6	Spruce - Colorado (Picea pungens)
636	5	Spruce - Colorado (Picea pungens)
637	11	Locust - Honey (Gleditsia tricanthos)
638	11	Locust - Honey (Gleditsia tricanthos)
639	13	Pine - Red (Pinus resinosa)
640	16	Pine - Red (Pinus resinosa)
641	16	Pine - Red (Pinus resinosa)
642	8	Locust - Honey (Gleditsia tricanthos)
643	3	Crook Apple (Malus spp.)
644	3	Crook Apple (Malus spp.)
645	8	Crook Apple (Malus spp.)
646	7	Crook Apple (Malus spp.)
647	5	Crook Apple (Malus spp.)
648	19	Pine - Red (Pinus resinosa)
649	2	Maple - Amur (Acer ginnale)
650	4	Maple - Amur (Acer ginnale)
651	3	Maple - Amur (Acer ginnale)
652	3	Maple - Amur (Acer ginnale)
653	14	Blackwood (Tilia americana)
654	13	Blackwood (Tilia americana)
655	4	Maple - Amur (Acer ginnale)
656	4	Maple - Amur (Acer ginnale)
657	3	Maple - Amur (Acer ginnale)
658	3	Maple - Amur (Acer ginnale)
659	6	Spruce - Colorado (Picea pungens)
660	4	Spruce - Colorado (Picea pungens)
661	10	Spruce - Colorado (Picea pungens)

Sambatek
www.sambatek.com
12800 Whitewater Drive, Suite 300
Minnetonka, MN 55343
763.476.6010 telephone
763.476.8532 facsimile
Engineering | Surveying | Planning | Environmental

Client
CARRELL PARTNERS & YOST ARCHITECTS

Project
EMBASSY SUITES BLOOMINGTON

Location
BLOOMINGTON, MN
7901 34TH AVE S

Certification
I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly licensed LAND SURVEYOR under the laws of the State of Minnesota.
Rick M. Blom
Rick M. Blom
Registration No. 21729 Date: 02/14/2017
If applicable, contact us for a wet signed copy of this survey which is available upon request at Sambatek's, Minnetonka, MN office.

Summary
Designed: Drawn: DL
Approved: RMB Book / Page: 1257/33
Phase: Initial issued: 02/14/2017

Revision History
No. Date By Submittal / Revision

Sheet Title
BOUNDARY & TOPOGRAPHICAL SURVEY

Sheet No. Revision
1/1

Project No. 20697

PL201700055
PL2017-55

RAYMOND L. GOODSON JR., INC.
CONSULTING ENGINEERS
5601 BRIDGE ST., SUITE 420,
FORT WORTH, TEXAS 76112 817/687-0080
E-MAIL: rlg@rlginc.com FIRM REG: F-493

PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or
report was prepared by me or under my
direct supervision and that I am a duly Licensed
Professional Engineer under the laws of the
State of Minnesota.
Print Name: MICHAEL J. McLAREN
Signature: *[Signature]*
Date: 5/23/17 License #: 42897



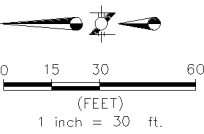
EMBASSY SUITES
7901 34TH AVE S, BLOOMINGTON, MN 55425
AIRPORT SOUTH
MINNEAPOLIS, MINNESOTA

● CARRELL
■ PARTNERS
▼ & YOST
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3416 Milligan Street
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Dallas, Texas 75206
314-953-0012
314-953-0033 FAX
ayst@aystarch.com
www.aystarch.com

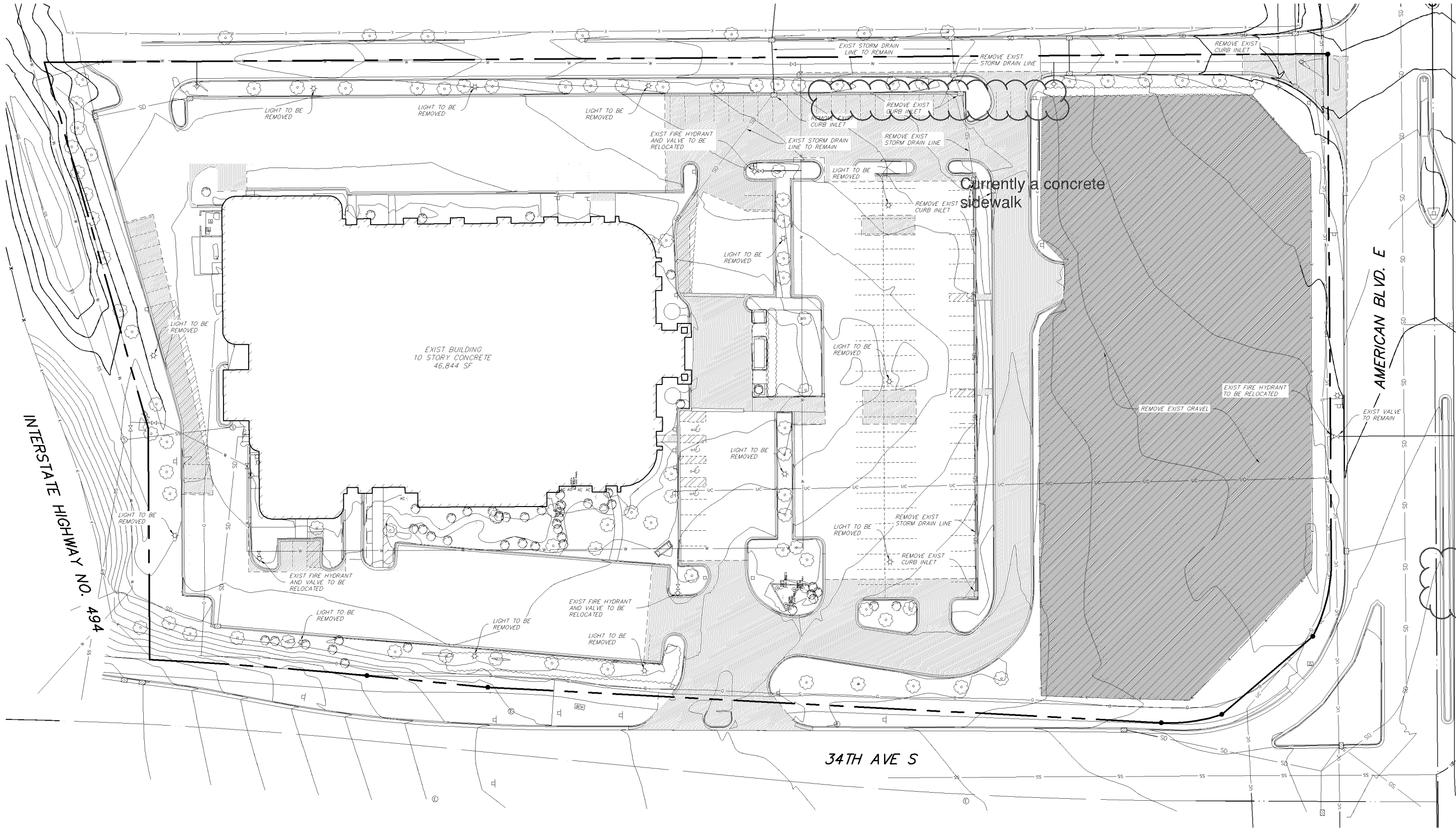
DRAWN BY:	RLG
CHECKED BY:	RLG
DATE:	05/23/17
REVISIONS:	
PROJECT NO:	
SHEET NO:	C1.00

LEGEND

- LIMITS OF PAVEMENT REMOVAL
- LIMITS OF GRAVEL REMOVAL
- LIMITS OF PAVEMENT SAWCUT
- REMOVE EXISTING TREES
- EXISTING PARKING SPACES



NOTES:
1. SEE L201 FOR TREE REMOVAL



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PL2017-55

LEGEND

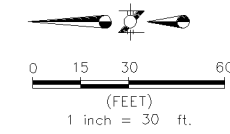
INSTALL 5" ASPHALT

INSTALL 8" CONCRETE

INSTALL 4" CONCRETE

PROPOSED CURB

LIMITS OF PAVEMENT SAWCUT



RLG

RAYMOND L. GOODSON JR., INC.
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PROFESSIONAL ENGINEER

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Print Name: MICHAEL J. McLAREN

Signature: [Signature]

Date 5/23/17 License # 42897

AMERICAN BLVD. E

EXISTING BUILDING
10 STORY CONCRETE
46,844 SF

INSTALL BRICK PAVERS —

INTERSTATE HIGHWAY NO. 494

34TH AVE S

EMBASSY SUITES
7901 34TH AVE S, BLOOMINGTON, MN 55425
AIRPORT SOUTH
MINNEAPOLIS, MINNESOTA

● CARRELL
■ PARTNERS
▼ & YOST
architecture

3646 Milian Street
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epy@epyearh.com
www.epyearh.com

DRAWN BY: *RLG*

CHECKED BY: *RLG*

DATE: 05/23/17

REVISIONS:

PROJECT NO.:	
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SHEET NO.:

C2.00

PAVING AND DIMENSIONAL CONTROL

SHEET NO.:
C2.00

PL201700055
PL2017-55

LEGEND



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Date 5/23/17 License # 42897



A tree is required in every parking lot island. Add at least one deciduous tree to the south parking lot island along 34th Avenue South.

EMBASSY
7901 34TH AVE S, BLOOMING
A I R P O R T
MINNEAPOLIS, M

● CARRELL
■ PARTNERS
▼ & YOST
architecture

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epy@epyearh.com
www.epyearh.com

AWN BY: *RIG*

REVIEWED BY: *BIG*

05/23/17

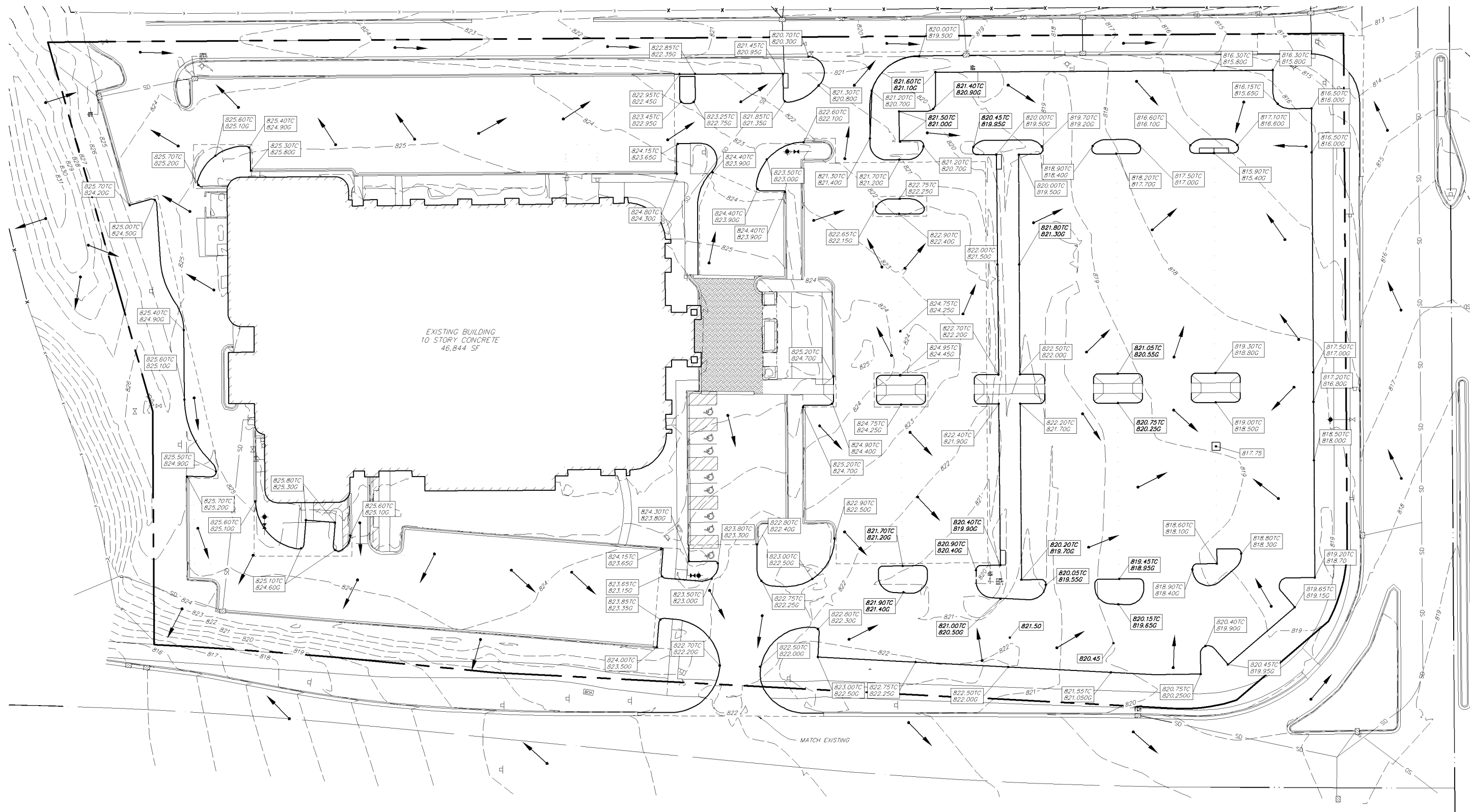
VISIONS:

PROJECT NO.:

ĐỀ TÀI NÓI:

C3.00

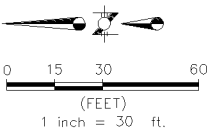
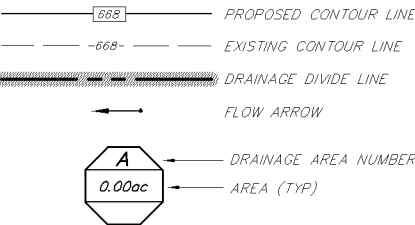
GRADING PLAN



PL201700055

PL2017-55

LEGEND



RAYMOND L. GOODSON JR., INC.
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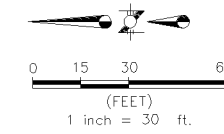
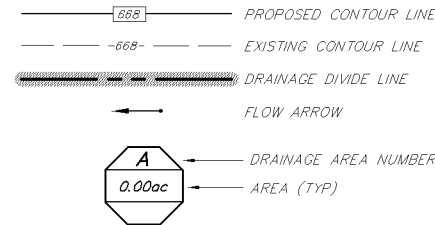
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DATE:	05/23/17
REVISIONS:	
PROJECT NO:	
SHEET NO:	C4.00

PRE-DEVELOPED
DRAINAGE AREA MAP

PL201700055

PL2017-55

LEGEND



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DRAWN BY: RLG
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DATE: 05/23/17
REVISIONS:

PROJECT NO:

SHEET NO:
C4.01

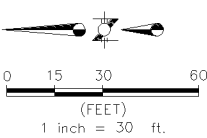
Add pavement hatch to legend

POST-DEVELOPED
DRAINAGE AREA MAP

PL201700055
PL2017-55

LEGEND

- W — EXISTING WATER LINE
— PROPOSED WATER LINE
⊠ EXISTING WATER VALVE
⊠ EXISTING FIRE HYDRANT
⊠ PROPOSED WATER VALVE
⊠ PROPOSED FIRE HYDRANT



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DATE:	05/23/17
REVISIONS:	
PROJECT NO:	
SHEET NO:	C5.00

WATER PLAN

Storm Frequency	100 Year (1%)
Duration	24-hour
Rainfall (in)	7.5

Total Area (acres):		6.78						
Existing Conditions (100-year storm)	Area (ft ²)	% of Total Area	Rating	CN	Weighted Curve Number	% Impervious	Weighted %	
Open Space: Good Condition	3,544.0	0.03	A	39	1	0	0.0	
Gravel	21,973.0	0.07	A	76	5.7	0	0.0	
Paved	5,847.0	0.02	A	98	1.9	85	1.7	
Open Space: Good Condition	33,949.0	0.11	B	61	7.0	0	0.0	
Gravel	36,231.0	0.12	B	85	10.4	0	0.0	
Paved	188,807.0	0.64	B	98	82.7	85	54.3	
Total:	295,300.0	1.00			88.8		56.0	

Direct Runoff	P (in)	S	0.2"S	0.8"S
Q=	7.50	1.25	0.25	1.01
Q (in)=	6.18			

Q (ft ³) =	0.515
Area (ft ²) =	295,300.0
Total Runoff (ft ³) = 151,968.95	
3.49ac-ft	

Storm Frequency	100 Year (1%)
Duration	24-hour
Rainfall (in)	7.5

Total Area (acres):		6.78						
Proposed Conditions (100-year storm)								
	Area (ft ²)	% of Total Area	Rating	CN	Weighted Curve Number	% Impervious	Weighted %	
Open Space: Good Condition	8727.0	0.03	A	39	1.2	0	0.0	
Paved	27400.0	0.09	A	98	9.1	85	7.9	
Open Space: Good Condition	53973.0	0.18	B	61	11.1	0	0.0	
Paved	205200.0	0.69	B	98	68.1	85	59.1	
Total:	295300.0				89.5		67.0	
Direct Runoff		P (in)	S	0.2"S	0.6"S			

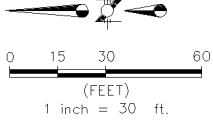
Direct Runoff	P (in)	S	0.2"S	0.8"S
Q=	7.50	1.17	0.23	0.94
Q (in)=	6.25			

Q (ft ³) =	0.521
Area (ft ²) =	295,300.0
Total Runoff (ft ³) = 153,914.10	
3.53ac-ft	

Total Volume of Storage Required (ft ³) =	1,945.15	0.04ac-ft
Adjusted Volume (SF=2)	3,890.31	0.09ac-ft

LEGEND

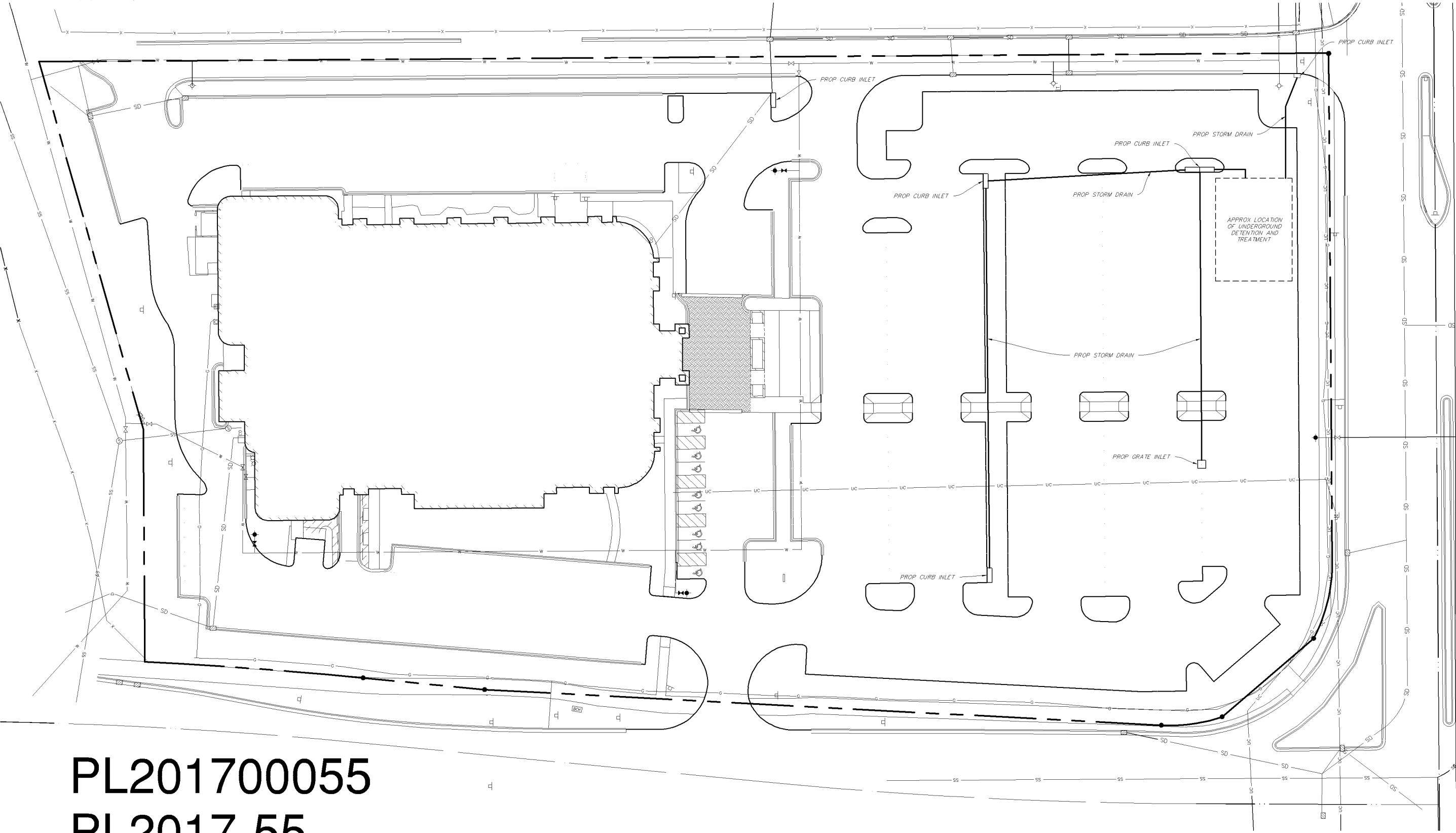
- SD EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING CURB INLET
- PROPOSED CURB INLET
- PROPOSED GRATE INLET



RLG

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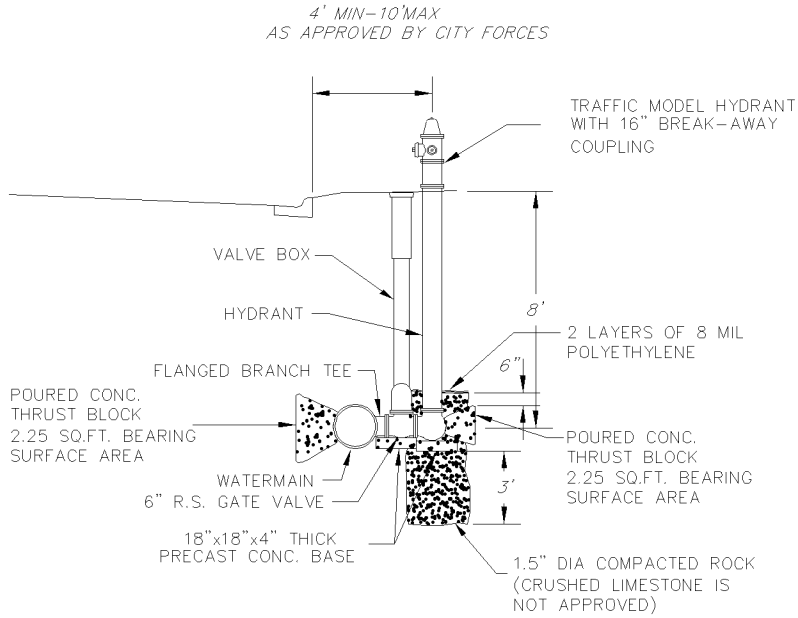
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DATE:	05/23/17
REVISIONS:	
PROJECT NO:	
SHEET NO:	
C6.00	

STORM PLAN

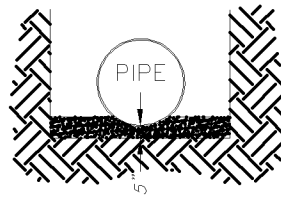
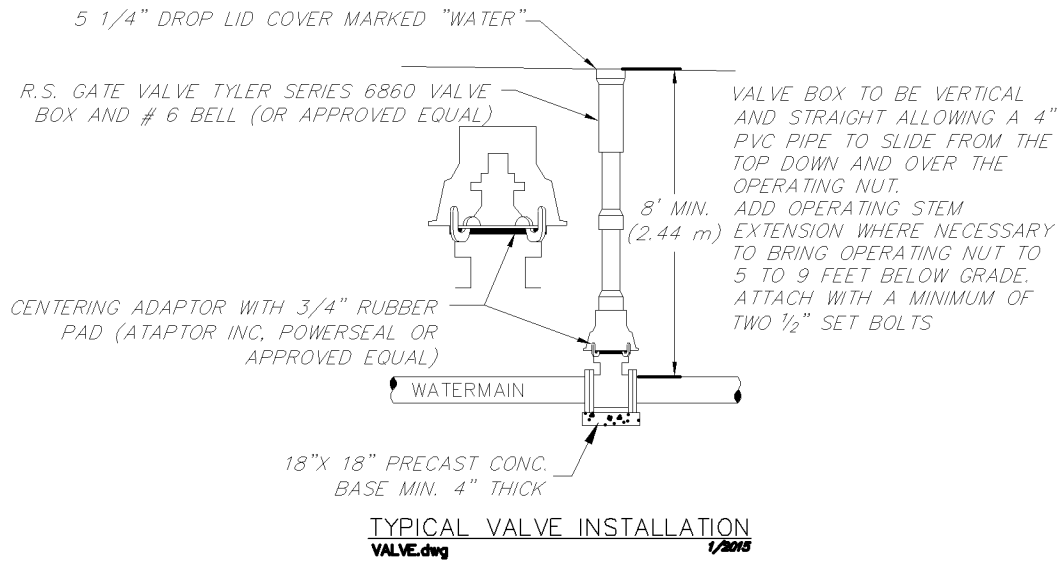
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PL2017-55

PL201700055
PL2017-55 • HYD
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- HYDRANT TO BE:
 - WATEROUS CLASSIC PACER.
 - MUELLER SUPER CENTURION 250 MODEL A-423.
 - OR APPROVED EQUAL.
- EQUIP WITH THREE HOSE NOZZLES/CONNECTIONS AS FOLLOWS:
 - ONE – FACTORY INSTALLED 5 INCH STORZ PUMPER NOZZLE/CONNECTOR, INCLUDING A MANUFACTURER SUPPLIED AND INSTALLED ANODIZED ALUMINUM NOZZLE CAP WITH A 1.5 INCH PENTAGON NUT AND NO ROCKER LUG.
 - TWO – 2.5 INCH HOSE NOZZLES/CONNECTIONS (WITH NATIONAL STANDARD THREADS) AND STANDARD NOZZLE CAPS WITH 1.5 INCH PENTAGON NUTS, AND NO ROCKER LUGS.
- USE SS NUTS AND BOLTS AS APPROVED BY THE ENGINEER.
- ALL EXPOSED WATERMAIN SHALL BE WRAPPED WITH POLYETHYLENE IN ACCORDANCE WITH AWWA C-105.
- BARREL TO BE BRIGHT RED.
- ALL VALVES TO OPEN COUNTER-CLOCKWISE.
- SEE TYPICAL VALVE INSTALLATION DETAIL FOR VALVE.
- WATEROUS PACER CLASSIC HYDRANTS SHALL INCLUDE
INSTALLATION OF THE MANUFACTURERS MOST CURRENT
ANTI-CHATTER BRASS UPPER VALVE WASHER.



CLOSE COUPLED HYDRANT INSTALLATION
CLS-COUP_HYD_INST.dwg 1/2016



PIPE BEDDED IN GRANULAR BEDDING
TO DEPTH OF 5 INCHES. BACKFILL
COMPACTED TO FINISHED GRADE.

PIPE BEDDING DETAIL
PIPE-BED.DWG 4/2008

Provide details, elevations, location of building, and specify or provide the building to be demolished under direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: MICHAEL J. McLAREN
Signature: Michael J. McLaren
Date: 10/26/2018

EMBASSY SUITES
7901 34TH AVE S, BLOOMINGTON, MN 55425
AIRPORT SOUTH
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■ PARTNERS
▼ & YOST
architects

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214.953.0702 FAX
epy@epyearh.com
www.epyearh.com

DRAWN BY: *RLG*

CHECKED BY: *RLG*

DATE: 05/23/17

REVISIONS:

A blank coordinate grid with x and y axes. The x-axis is horizontal and the y-axis is vertical, intersecting at the origin. The grid consists of a 10x10 array of squares. The x-axis is labeled from 1 to 10, and the y-axis is labeled from 1 to 10. The origin is labeled (0,0). The grid is used for plotting points and lines.

PROJECT NO.:

SHEET NO.:

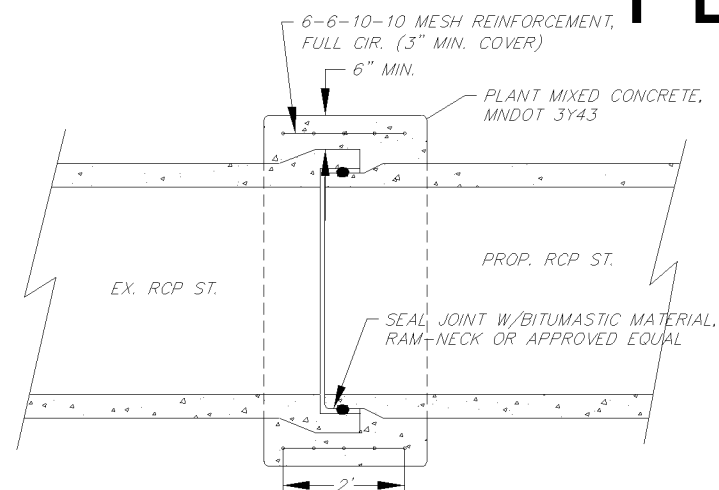
C8.00

CITY STD
WATER DETAILS

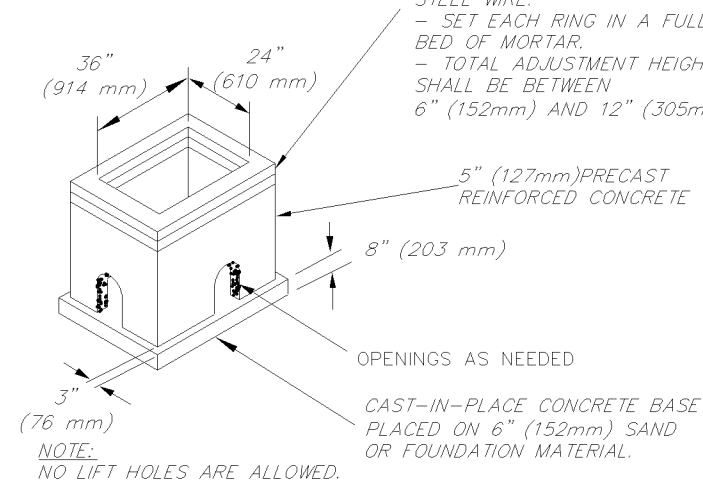
SHEET NO.:
C8.00

– SHALL BE PRECAST,
 2" (51mm) THICK, AND
 REINFORCED WITH 8 GAUGE
 STEEL WIRE.
 – SET EACH RING IN A FULL
 BED OF MORTAR.
 – TOTAL ADJUSTMENT HEIGHT
 SHALL BE BETWEEN
 6" (152mm) AND 12" (305mm).

36" (914 mm)
 24" (610 mm)
 5" (127mm) PRECAST
 REINFORCED CONCRETE
 8" (203 mm)
 3" (76 mm)
 OPENINGS AS NEEDED
 CAST-IN-PLACE CONCRETE BASE
 PLACED ON 6" (152mm) SAND
 OR FOUNDATION MATERIAL.
NOTE:
 NO LIFT HOLES ARE ALLOWED.



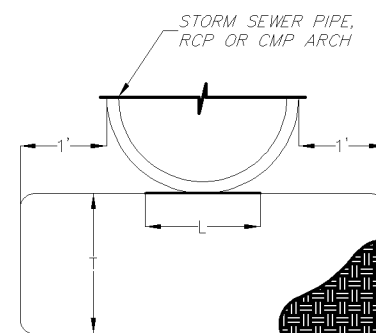
STANDARD CONSTRUCTION JOINT
STD_CONST_JOINT.DWG 4/2009



STANDARD CATCH BASIN
STD_CBL.DWG 1/2013

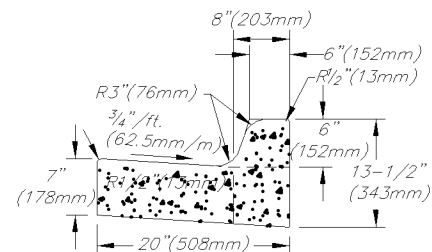
PIPE DIA.	L	T
15"	1'	2'
21"	1'	2'
103" ARCH	3'	3'

NOTE:
OVERLAP FABRIC "L" FEET
UNDER CENTER OF PIPE,
SEE TABLE ABOVE.

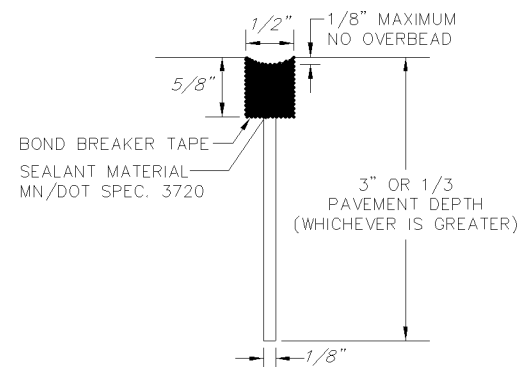


TYPE II GEOTEXTILE FABRIC (PER MNDOT 373.3)
SURROUNDING FOUNDATION MATERIAL

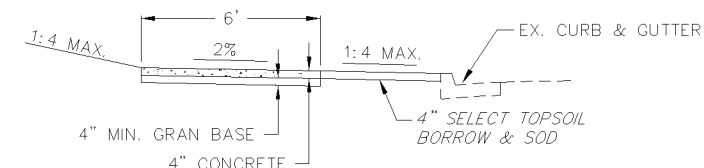
SPECIAL PIPE BEDDING
SPECIAL PIPE BEDDING SPECIAL.DWG 4/2009



B612 STANDARD CURB & GUTTER
B612_C&G.dwg 4/2000

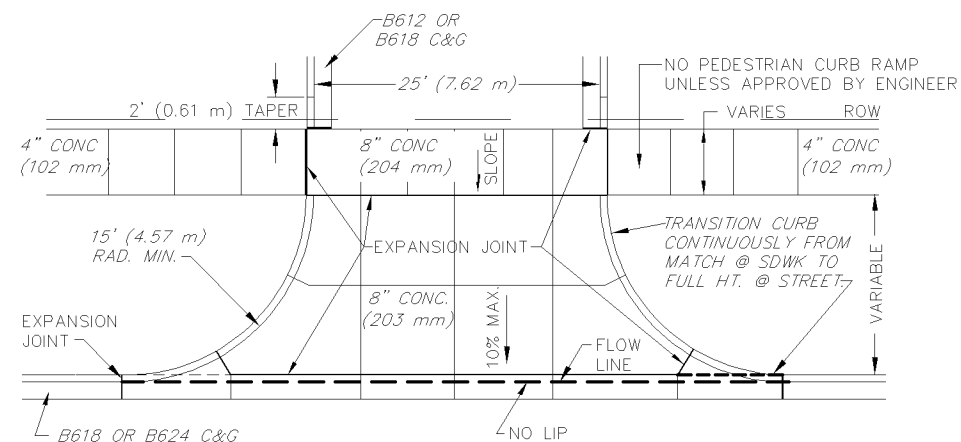


TYPICAL SAWED/SEALED JOINT
SAW_SEALJOINT.DWG 4/2009

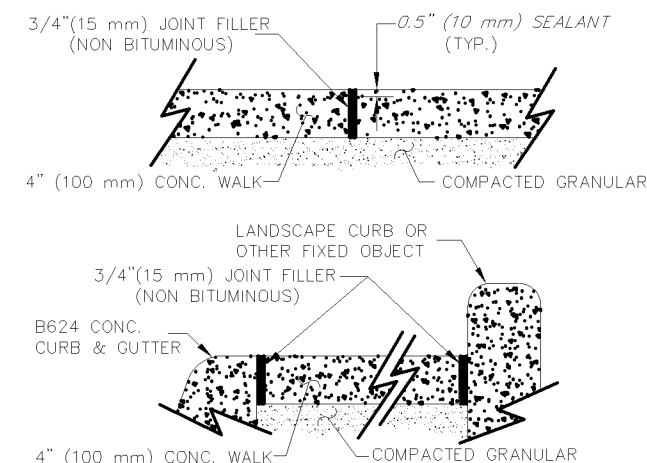


TYPICAL SIDEWALK INSTALLATION
TYP_CONC_WALK.dwg 11/2012

- EACH DRIVEWAY PANEL NOT TO EXCEED 100 SF (9.29 m2).
- REINFORCEMENT BARS OR WELDED WIRE FABRIC (STEEL MESH) ARE NOT ALLOWED IN THE RIGHT-OF-WAY
- CLASS 5 AGGREGATE BASE REQUIRED UNDER CURB AND GUTTER.
- IF PRESENT, STREET LIGHT, SIGNAL AND INTERCONNECT CONDUIT OR DIRECT BURIED STREET LIGHT WIRING MUST BE EXPOSED FOR INSPECTION PRIOR TO POUR



NONRESIDENTIAL DRIVEWAY APPROACH
WITH BOULEVARD SIDEWALK
DRWY.COM.dwg 4/2008



EXPANSION JOINT DETAIL
EXP-JNT.dwg 4/2009

5" ACC PAVEMENT PREPARED IN ACCORDANCE WITH GEOTECHNICAL REPORT.

MIN 8" GRANULAR BASE PREPARED IN ACCORDANCE WITH GEOTECHNICAL REPORT

TYPICAL ASPHALT PAVING SECTION
NTS



PROFESSIONAL ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: MICHAEL J. McLAREN
Signature: 
Date 5/23/17 License # 42897



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A I R P O R T S O U T H
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architects

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AWN BY: *RLG*

HECKED BY: *RLG*

TH: 05/23/17

VISIONS:

[illegible]

PROJECT NO.:

LET NO.:

PRIVATE
PAVING DETAILS

LET NO.: C8.03

PL201700055
PL2017-55



Embassy Suites - International Airport

Bloomington, MN

STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-4500 OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-4500 CHAMBER SYSTEM

1. STORMTECH MC-4500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS.

STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm) MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
10. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-4500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

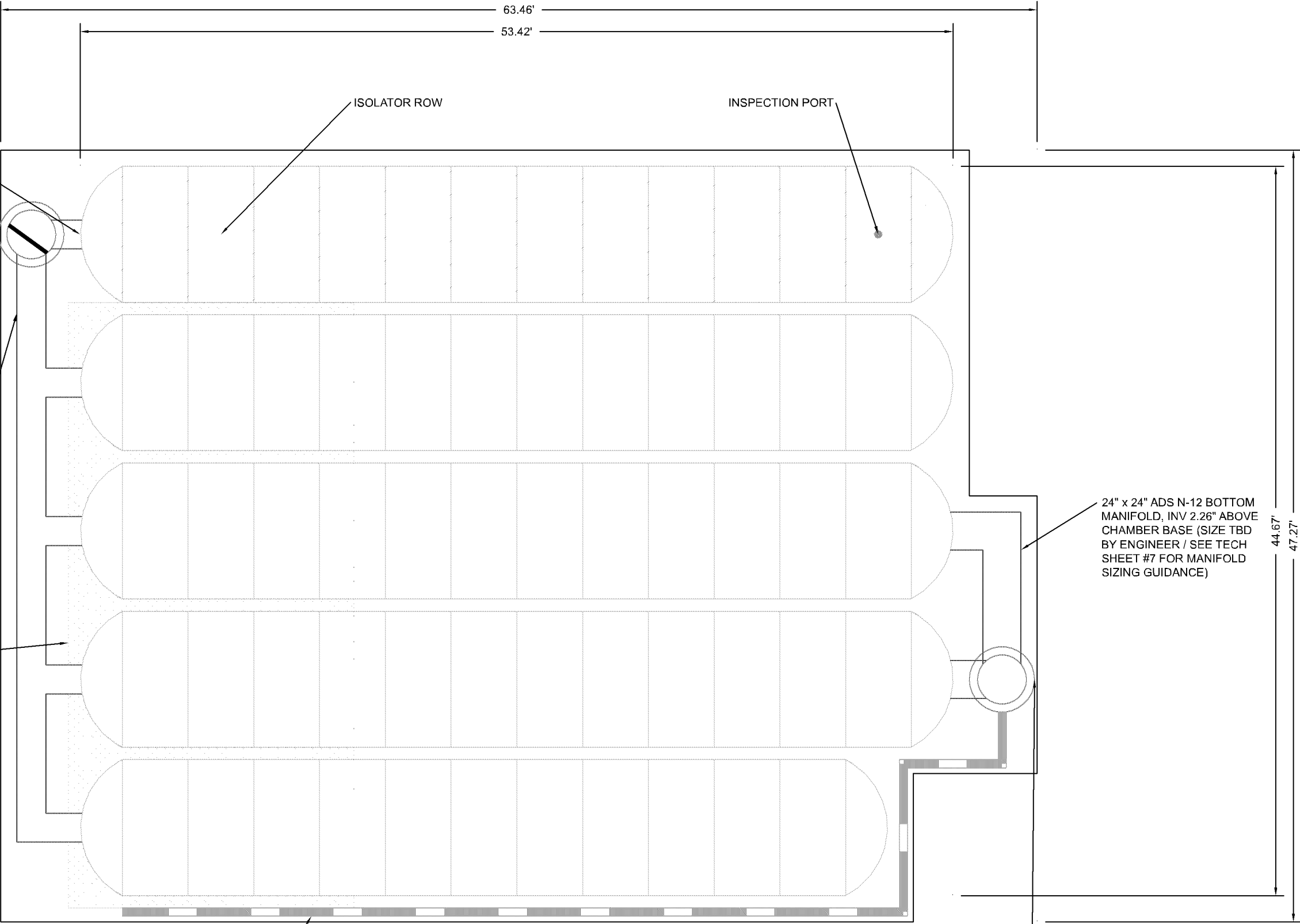
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

CONCEPTUAL LAYOUT

(59) STORMTECH MC-4500 CHAMBERS
(10) STORMTECH MC-4500 END CAPS
INSTALLED WITH 12 " COVER STONE, 9 " BASE STONE, 40% STONE VOID
INSTALLED SYSTEM VOLUME: 11659 CF
AREA OF SYSTEM: 2843 FT²
PERIMETER OF SYSTEM: 221 FT

COMPUTER GENERATED CONCEPTUAL LAYOUT - NOT FOR CONSTRUCTION



PL201700055
PL2017-55

Embassy Suites - International Airport
Bloomington, MN

DATE: 03/20/2017
PROJECT #: Tool

DRAWN: jm
CHECKED: ---

REV	DRW	CHK	DESCRIPTION

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860-529-6188 | 888-592-2694 | WWW.STORMTECH.COM

ADS
ADVANCED DRAINAGE SYSTEMS, INC.

4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

NOT TO SCALE

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

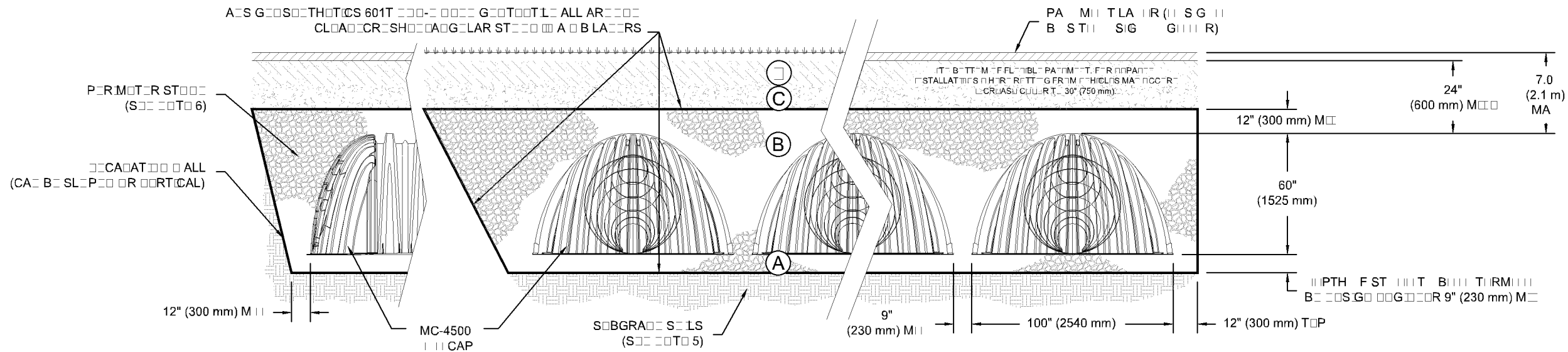
SHEET
2 OF 6

	MATERIAL LOCATION	SCREENING	AASHTO MATERIAL CLASSIFICATION	COMPACTION METHOD REQUIREMENT
D	THE LOWER FULL MATERIAL FILL AREA STARTS FROM THE TOP FTH ICULAR TO THE BOTTOM OF FILLABLE PADDMENT OR PADDMENT SHOULDER ABOVE. NOTE THAT PADDMENT SUBBASE MAY BE PART OF THE SHOULDER.	ALL SHIRRIE MATERIALS AT THIS SITE RPR (G) THIS PLANS. CHICIT PLANS FOR PAI MIT S BGRAIR QIRIMITS.	GA	PREPARATION SITE SIGNIFICANT RISPLAS. PAI STALLAT THIS MAHA STRIGT MATERIALA PREPARATION REQUIREMENTS.
C	THE FULL FILL MATERIAL FILL AREA STARTS FROM THE TOP FTH IMBIMMIT ST (BILAIR) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PADDMENT SUBBASE MAY BE A PART OF THE SHOULDER.	GRAVELAR FILL-GRAVELS LIAGGRIGAT MITR S135 FISSIRPR CESSI AGGRIGAT . MOST PADDMENT SUBBASE MATERIALS CAN BE USED IN THE FILL AREA.	AASHTO M145 ¹ A-1/A-2/A-3 CR AASHTO M43 ¹ 3-357-4-467-5-56-57-6-67-68-7-78-8-89-9-10	B GRIE COMPACTI S AFTIR 24" (600 mm) IF MATERIAL RTH CHAMBERS STRACH . COMPACT ALL THERIAL LARS 12" (300 mm) MAIFTS THAMIL.95 PRICTR I STIFR ALL GRADE MATERIAL ADD 95 RELAT SIT FOR PROCESS AGGRIGAT MATERIALS.
B	THE MATERIAL FILL SHIRRIE WITH CHAMBERS FROM THE FILL TO THE ST (ALAIR) TO THE SHOULDER ABOVE.	CLASH CRASH AGGRIGAR STIMAL S STRBT BT 3-4-2 CH (20-50 mm)	AASHTO M43 ¹ 3-4	COMPACTI REQUIREMENT.
A	THE MATERIAL FILL CHAMBERS FROM THE SHIRRIE TO THE FILL (BTTM) OF THE CHAMBER.	CLASH CRASH AGGRIGAR STIMAL S STRBT BT 3-4-2 CH (20-50 mm)	AASHTO M43 ¹ 3-4	PLATIC MPACT RRIILLTACH A FLAT SURFACE. ^{2,3}

1. TH LIST 11 AASHT 11 SIG AT 11 SARIF R GRA AT 11 S 11 L . TH 11 ST 11 M ST ALS B 11 CL 11 A 11 CR 11 SH 11 A 11 G LAR. F R 11 AMPL 11 A SP 11 C 11 F CAT 11 11 11 F 11 R 11 # ST 11 11 11 L STAT 11 "CL A 11 CR 11 SH 11 A 11 G LAR 11 . 4 (AASHT 11 M43) ST 11 11 .

2. ST RMT CH C 11 MPA CT 11 R 11 Q R 11 M 11 TS AR 11 M 11 T F 11 R A 11 L CAT 11 MAT 11 R IALS 11 H 11 PLAC 11 A 11 C 11 MPA CT 11 11 9" (230 mm) (MA 11 L) LIFTS S 11 G T 11 F 11 LL C 11 11 RAG 11 S 11 TH A 11 BRAT 11 R C 11 MPA CT R.

3. 11 H R 11 F 11 LTRAT 11 S 11 RFAC S 11 MA 11 B 11 C 11 MPR 11 M S 11 B C 11 MPA CT 11 F 11 R ST A 11 H 11 S 11 G L 11 A C 11 11 T 11 S A 11 FLAT S 11 RFAC MA B ACH 11 11 B RA 11 G R RAGG 11 G 11 TH 11 T C 11 MPA CT 11 11 Q 11 C 11 P 11 M 11 O 11 T. F 11 O R SP 11 C 11 A L L 11 O A 11 S 11 G 11 S C 11 O 11 TACT S 11 T 11 O R M 11 TCH F 11 O R C 11 MPA CT 11 11 R 11 Q 11 R 11 M 11 O 11 T 11 S.



1. MC-4500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED - ALL STORM ATOR COLLECTOR CHAMBERS".

2. MC-4500 CHAMBERS SHALL BE IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL TESTING OF THERMOPLASTIC CORRUGATED - ALL STORM ATOR CHILL CUT CHAMBERS".

3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATION SCHEDULES GRADES AND COMPACTED REQUIREMENTS FOR FILL MATERIALS.

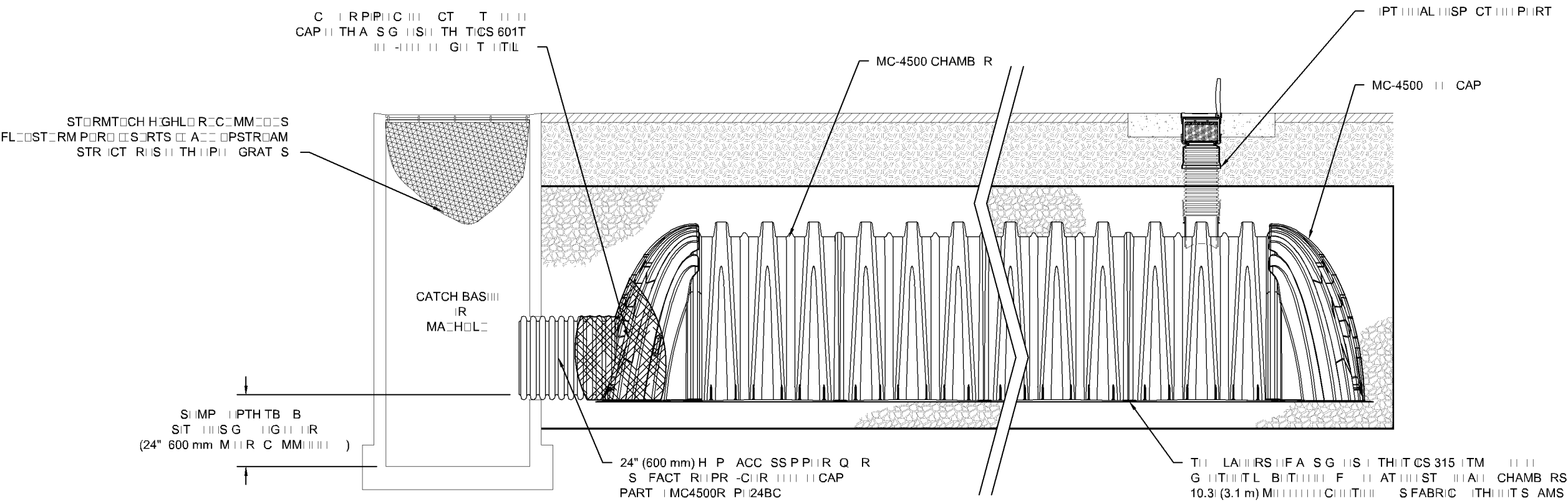
4. THE "STIFFENING RIBS" THICKNESS SHALL BE SUFFICIENT TO WITHSTAND THE STORMWATER CHAMBERS FOR THIS PROJECT.

5. THE STIFFENING RIBS SHALL BE SUFFICIENT FOR ASSASSING THE BARRING RESISTANCE (ALL AVAILABLE BARRING CAPACITY) OF THE SUBGRADE SLOPE AND THE DEPTH OF FILL MATERIALS.

6. PERMITTER SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FOR BOTH EARTH AND SLOPE CHAMBERS.

7. CHAIRMAN SHALL PLACE THE FILL MATERIALS IN PLACE LAID OUT TO THE FILL GRADE. MUST PLACE THE FILL MATERIALS IN PLACE LAID OUT TO THE FILL GRADE.

PL201700055
PL2017-55



MANUFACTURED TOOLS

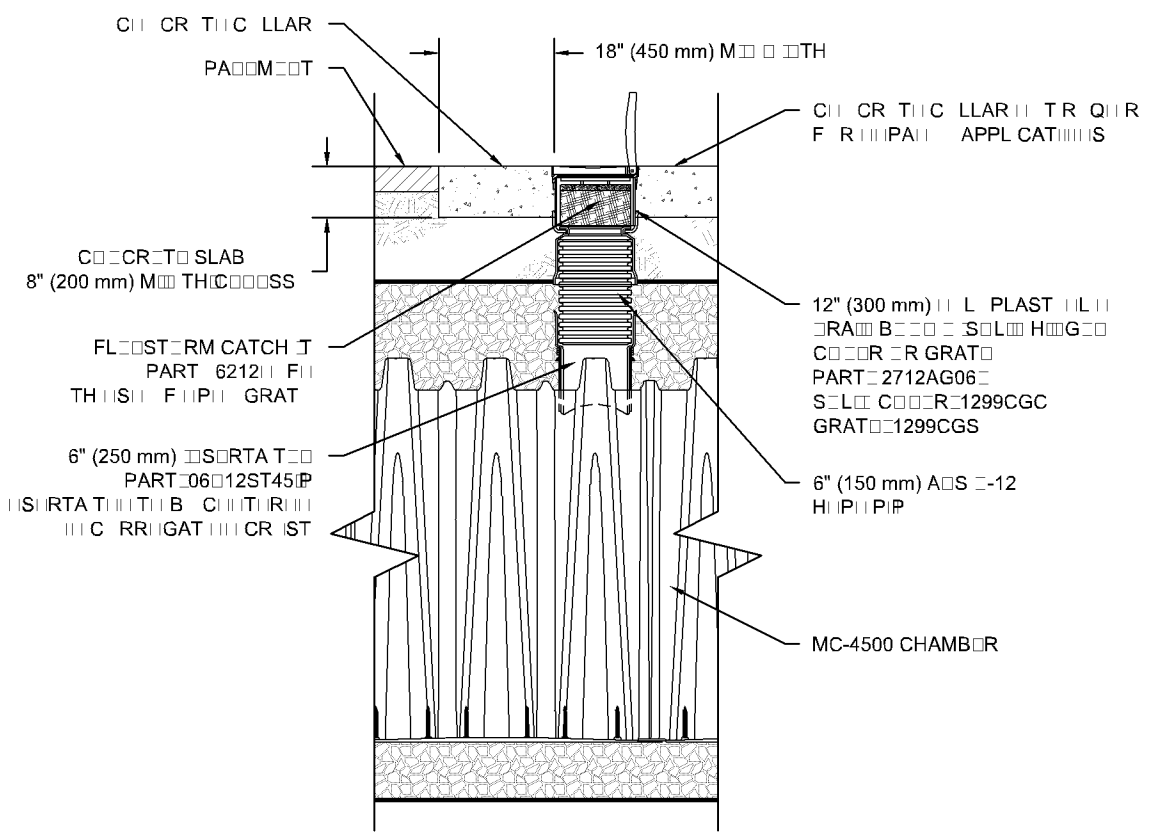
PL201700055
PL2017-55

TOOL MATERIAL

- STEP 1) INSPECT SOLAR REFRACTORY
- A. INSPECT PORTS (IF PRESENT)
 - A.1. REMOVE PORTS AND REPLACE PLASTIC OR ALUMINUM
 - A.2. REMOVE AND CLEAN FLASHLIGHT AND STATION MOUNTS
 - A.3. CLEAN FLASHLIGHT AND STATION MOUNTS
 - A.4. LUBRICATE RAILROAD RAILROADS FOR SMOOTH OPERATION
 - A.5. FILL WITH SATURATED 3" (80 mm) POLYESTER FIBER
 - B. ALL SOLAR REFRACTORY
 - B.1. REMOVE RAILROADS FROM STRUCTURE
 - B.2. SING FLASHLIGHT INSPECT THIS LAT RAILROADS
 - B.3. FILL WITH SATURATED 3" (80 mm) POLYESTER FIBER
- STEP 2) CLEAN INSULATION SIGHT THROUGH
- A. AFFIX CLEAN CLAMP TO LIGHT
 - B. APPLY MULTIPLE PASSES OF TAC TO BACK OF FLASHLIGHT
 - C. JACOM STRUCTURE COMPASS
- STEP 3) REPLACE ALL GRATES FILTERS AND INSULATE RAILROADS
- STEP 4) INSPECT AND CLEAN BASINS AND MACHINES DOWNSTREAM OF THE STORMWATER SYSTEM.

TOOL

- INSPECT RAILROADS THROUGH FIRST RAILROADS
- CLEAN THROUGH RAILROADS



MANUFACTURED TOOLS

Embassy Suites - International Airport
Bloomington, MN

DATE: 03/20/2017
PROJECT: Tool

DESCRIPTION: CH

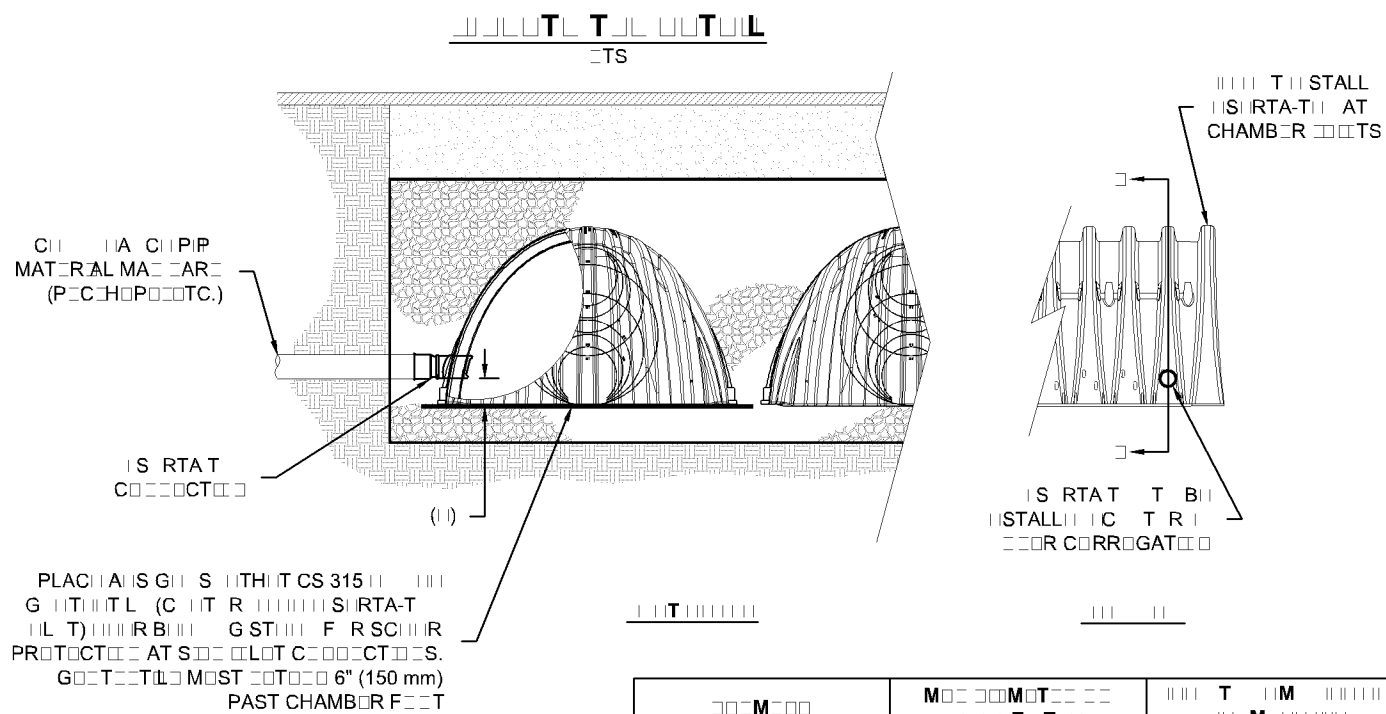
REVISIONS: R, CH

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860-523-8188 | 888-892-2684 | stormtech.com

4640 TRIMMILL
HILLAR H 43026
1-800-733-7473

THS RAILROADS PART BASIN...
RHS RAILROADS PART BASIN...
RHS RAILROADS PART BASIN...

SHIT
4 F 6



SC-310	SC-740	SC-780	MC-3500	MC-4500
6" (150 mm)	10" (250 mm)	10" (250 mm)	12" (300 mm)	12" (300 mm)
4" (100 mm)	4" (100 mm)	4" (100 mm)	6" (150 mm)	8" (200 mm)

Technical drawings of the PL201700055 PL2017-55 roof structure. The drawings include a side elevation, a cross-section, and a plan view. The side elevation shows a curved roof with a height of 60.0 inches (1524 mm) and a width of 100.0 inches (2540 mm). The cross-section shows a semi-circular profile with a height of 59.4 inches (1509 mm) and a width of 90.2 inches (2291 mm). The plan view shows a rectangular structure with a length of 48.3 inches (1227 mm) and a width of 52.0 inches (1321 mm). The drawings are labeled with various components and dimensions.

S M L M T	100.0" □ 60.0" □ 48.3"	(2540 mm □ 1524 mm □ 1227 mm)
CHAMB R ST RAG	106.5 C B C F T	(3.01 m ³)
M M M STALL ST RAG	162.6 C B C F T	(4.60 m ³)
GHT	130.0 lbs.	(59.0 kg)

 S□□ (□ □ H □ □ STALL□ □ L□ □ GTH) □ □ CAP ST□ RAG□ M□ □ M□ □ STALL□ □ ST□ RAG□ □ □ □ GHT	90.2" □ 59.4" □ 30.7" 35.7 C□ B□ C F□ □ T 108.7 C□ B□ C F□ □ T 135.0 lbs.	(2291 mm □ 1509 mm □ 781 mm) (1.01 m³) (3.08 m³) (61.2 kg)
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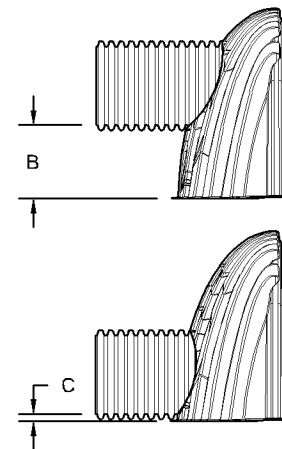
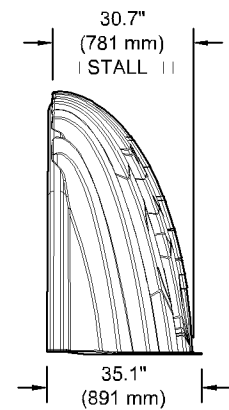
ASS-M-S 12" (305 mm) ST- - AB- -9" (229 mm) ST- F- -AT- A- B-T- - CHAMB-RS-
12" (305 mm) ST- P- R-M-T-R - FR- T- F- - CAPS A- 40- ST- P- R- S-T-.

ST0BS AT BOTTOM OF CAP FOR PART 00MBRS 0000G 0 TH "B"
ST0BS AT TOP OF CAP FOR PART 00MBRS 0000G 0 TH "T"

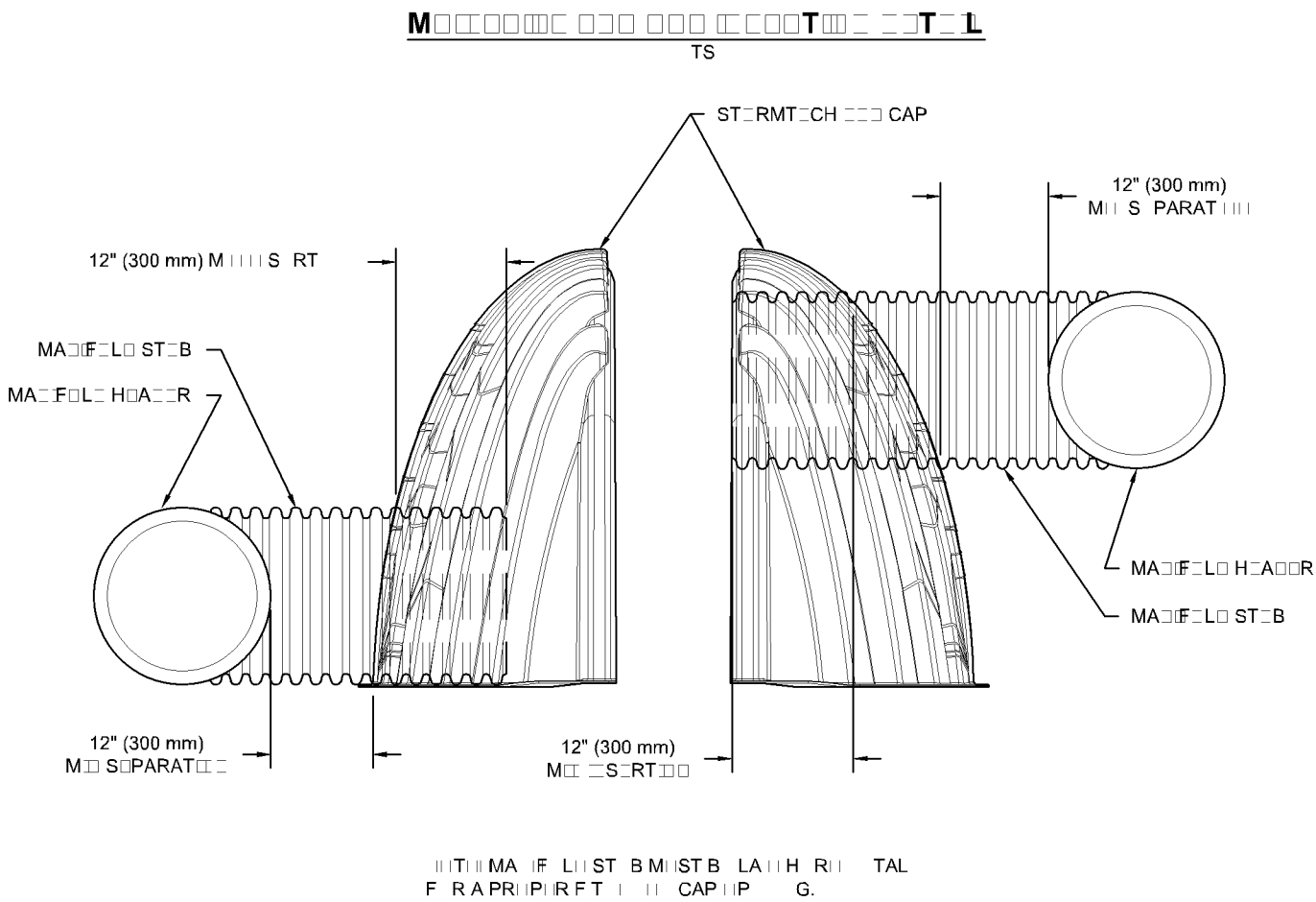
□□□T□	□T□□	□	□
MC4500R□P□06T	6" (150 mm)	42.54" (1.081 m)	---
MC4500R□P□06B		---	0.86" (22 mm)
MC4500R□P□08T	8" (200 mm)	40.50" (1.029 m)	---
MC4500R□P□08B		---	1.01" (26 mm)
MC4500R□P□10T	10" (250 mm)	38.37" (975 mm)	---
MC4500R□P□10B		---	1.33" (34 mm)
MC4500R□P□12T	12" (300 mm)	35.69" (907 mm)	---
MC4500R□P□12B		---	1.55" (39 mm)
MC4500R□P□15T	15" (375 mm)	32.72" (831 mm)	---
MC4500R□P□15B		---	1.70" (43 mm)
MC4500R□P□18TC	18" (450 mm)	29.36" (746 mm)	---
MC4500R□P□18BC		---	1.97" (50 mm)
MC4500R□P□24TC	24" (600 mm)	23.05" (585 mm)	---
MC4500R□P□24BC		---	2.26" (57 mm)
MC4500R□P□30BC	30" (750 mm)	---	2.95" (75 mm)
MC4500R□P□36BC	36" (900 mm)	---	3.25" (83 mm)
MC4500R□P□42BC	42" (1050 mm)	---	3.55" (90 mm)

||T||ALL||M S||SAR||M|AL

CUSTOM PROCTOR □ □ □ □ RTs ARE AVAILABLE □ □ □ □ RQ □ □ ST. □ □ □ □ T R □ □ MA □ F □ L □ S □ CL □ □ □
12-24" (300-600 mm) S □ □ □ □ S □ □ □ A □ □ 15-48" (375-1200 mm) □ CC □ □ TR □ C MA □ F □ L □ S.
C □ ST □ M □ RT □ L □ CAT □ □ □ S □ □ TH □ MC-4500 □ CAP □ C □ T □ TH □ F □ L □ I □ AR □ □ IT □ R □ C □ MM □ □ □
F □ R □ P □ I □ S □ S □ GR □ AT □ IR □ TH □ 10" (250 mm)
TH □ □ □ RT □ L □ CAT □ □ □ C □ L □ M □ B □ AR □ TH □ H □ GHT □ ST □ P □ S □ S □ BL □ □ F □ IR □ TH □ P □ P □ I □ S □ □ .



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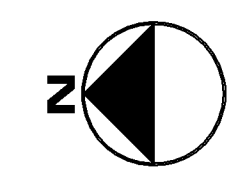
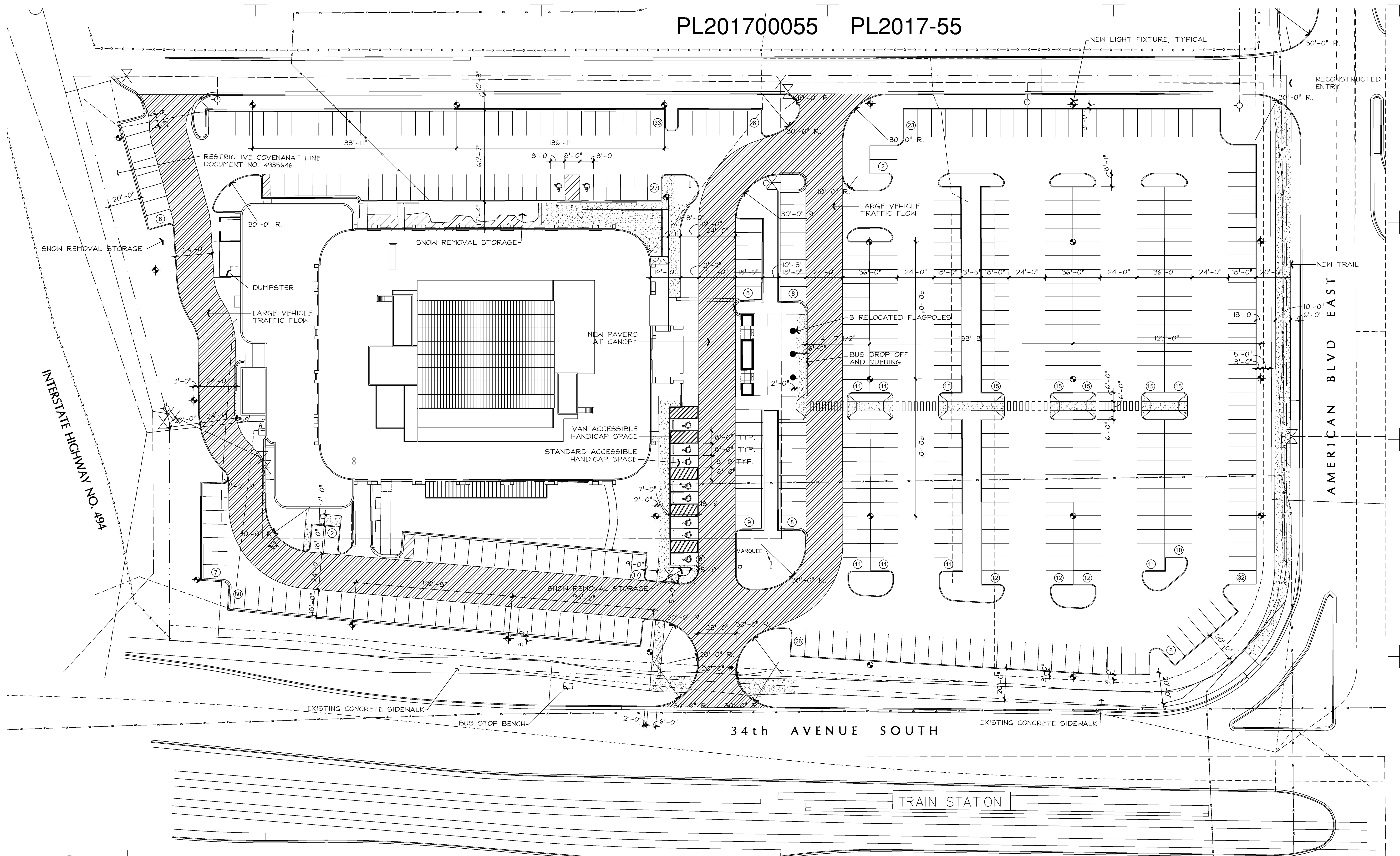
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DRAWN BY: DG
CHECKED BY: MSK
DATE: 04.07.2017
REVISIONS:

PROJECT NO.: 16031
SHEET NO.: PD 1



A PLANNED DEVELOPMENT SITE PLAN
1" = 30'-0"

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS
PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I
AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF
THE STATE OF MINNESOTA.

Michael R. Carrell

DATE: 13 APRIL 2017 LICENCE NUMBER 54499

B SITE LEGEND

- NEW CONCRETE SIDEWALK
- BUILDING EXPANSION
- NEW ASPHALT PAVING
- NEW LIGHT POLE
- REVISION DESCRIPTION KEY

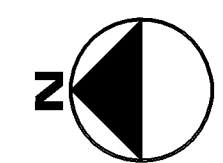
PL201700055
PL2017-55

INTERSTATE HIGHWAY NO. 494

AMERICAN BLVD EAST

34th AVENUE SOUTH

TRAIN STATION



A LANDSCAPE DEMOLITION PLAN

1" = 30'-0"

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Michael Randall

DATE: 13 APRIL 2017 LICENCE NUMBER 54499

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PL2017-55

B LEGEND

EXISTING TREE TO REMAIN

EXISTING TREE TO BE REMOVED

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PROJECT NO.:
16031
SHEET NO.:
L101

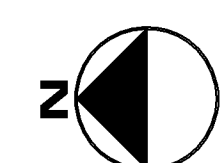


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REVISIONS:	

PROJECT NO.:	16031
SHEET NO.:	L201

 $1'' = 30'.0''$

Muhammad Hendrik

	NEW CONCRETE SIDEWALK
	BUILDING EXPANSION
	NEW ASPHALT PAVING
	NEW LIGHT POLE
(15)	REVISION DESCRIPTION KEY

PL201700055
PL2017-55

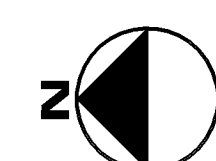


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DATE:	04.07.2017
REVISIONS:	

PROJECT NO.:	16031
SHEET NO.:	L301


$$\tau'' = 30' - 0''$$

Muhammad Hendak

 NEW JUNIPER PARKING LOT SCREENING SHRUBS

PL201700055
PL2017-55

A PREPARATION GENERAL NOTES

1. PLAN PREPARED BY:
MICHAEL S. KENDALL
KENDALL + LANDSCAPE ARCHITECTURE
8150 NORTH CENTRAL EXPRESSWAY
SUITE 12025
DALLAS, TEXAS 75206
PHONE: (214) 739-3226
E-MAIL: MIKE@KENDALL7.COM
MINNEAPOLIS LANDSCAPE ARCHITECT LICENSE NO. 54499
2. ALL AREAS SHALL BE IRRIGATED BY A LICENCES IRRIGATOR WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM PROVIDING 100% COVERAGE.
3. ALL REQUIRED TREES FROM THE CITY APPROVED LISTING.

B PLANTING GENERAL NOTES

1. ALL SOIL EXCAVATION MAY BE DISPOSED OF ON SITE.
2. IF A LIVE UTILITY IS ENCOUNTERED DURING EXCAVATION, CONTACT OWNER'S REPRESENTATIVE.
3. SEE PLANTING SPECIFICATIONS FOR A COMPLETE DESCRIPTION OF PLANT MATERIAL AND INSTALLATION.
4. ALL BEDS MUST BE LAID OUT AND APPROVED PRIOR TO THE INSTALLATION OF THE IRRIGATION FOR COORDINATION.
5. ALL PLANT MATERIAL SHALL BE STAKED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANT INSTALLATION.
6. ALL PLANTING DETAILS ARE TYPICAL.
7. ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS MUST BE EITHER HYDROMULCHING OR SOLID SODDED UNLESS NOTED.

C TREE PRESERVATION NOTES

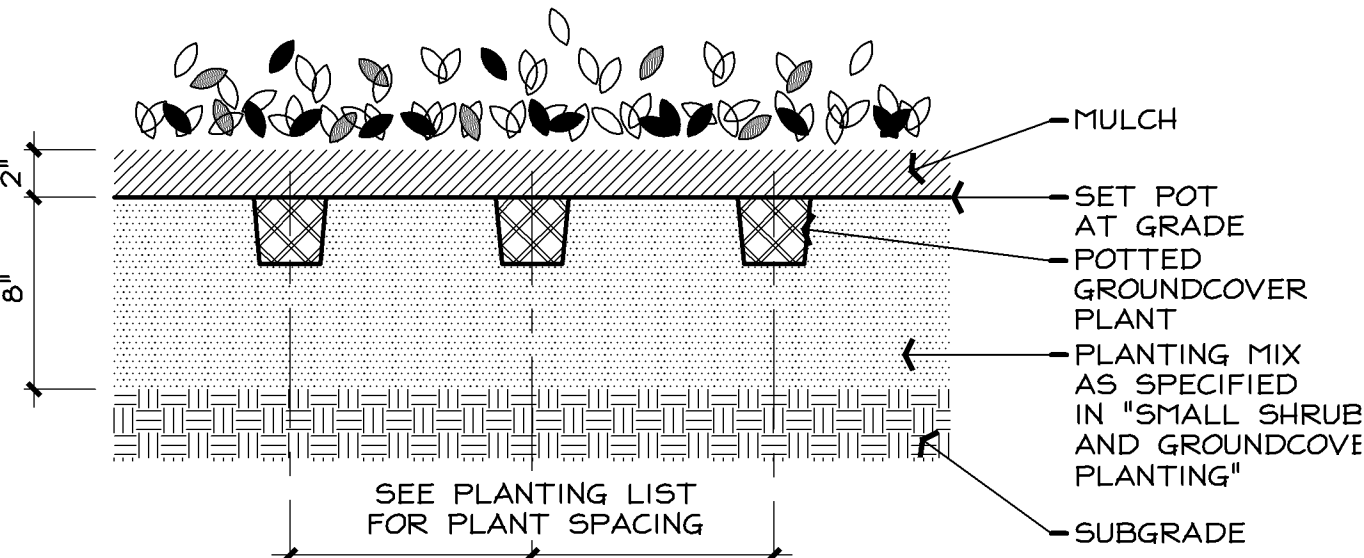
- CONTRACTOR SHALL ADHERE TO THE FOLLOWING TREE PROTECTION MEASURES:
1. THE CONTRACTOR SHALL ERECT A PLASTIC MESH FENCE A MINIMUM OF FOUR (4') FEET IN HEIGHT AROUND EACH TREE OR GROUP OF TREES TO PREVENT THE PLACEMENT OF DEBRIS OR FILL WITHIN THE DRIP LINE.
2. DURING THE CONSTRUCTION PHASE OF DEVELOPMENT, THE CONTRACTOR SHALL PROHIBIT CLEANING, PARKING OR STORAGE OF EQUIPMENT OR MATERIALS UNDER THE CANOPY OF ANY TREE OR GROUP OF TREES BEING PRESERVED. THE CONTRACTOR SHALL NOT ALLOW THE DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO, PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR, ETC. IN THE CANOPY AREA.
3. NO ATTACHMENTS OR WIRES OF ANY KIND, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY TREE.
4. NO FILL OR EXCAVATION MAY OCCUR WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED.

D PLANT LISTING

ALL SIZES SHOWN ARE MINIMUM. SMALLER CONTAINERS MEETING THE SPECIFIED HEIGHT AND SPREAD WILL NOT BE ACCEPTED. IF QUANTITIES ARE SHOWN, CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES. PLAN REFERENCES GOVERN.

BOTANIC NAME	COMMON NAME	SIZE	DESCRIPTION	QUANTITY
LARGE TREES				
ACER RUBRUM	RED MAPLE	24" BOX, 3"- 3 1/2" CALIPER, 8' - 9' HEIGHT, 4'-5' SPREAD	SINGLE STRAIGHT LEADER	14
GLEDITSIA TRIANCANTHOS	HONEYLOCUST	24" BOX, 3"- 3 1/2" CALIPER, 8' - 9' HEIGHT, 4'-5' SPREAD	SINGLE STRAIGHT LEADER.	9
TILIA AMERICANA	AMERICAN LINDEN	24" BOX, 3"- 3 1/2" CALIPER, 8' - 9' HEIGHT, 4'-5' SPREAD	SINGLE STRAIGHT LEADER.	12
TILIA CORDATA	LITTLELEAF LINDEN	24" BOX, 3"- 3 1/2" CALIPER, 8' - 9' HEIGHT, 4'-5' SPREAD	SINGLE STRAIGHT LEADER.	7
PICEA GLAUCA DENSATA	BLACK HILLS SPRUCE	24" BOX, 3"- 3 1/2" CALIPER, 8' - 9' HEIGHT, 4'-5' SPREAD	SINGLE STRAIGHT LEADER.	2
PICEA PUNGENS	COLORADO SPRUCE	24" BOX, 3"- 3 1/2" CALIPER, 8' - 9' HEIGHT, 4'-5' SPREAD	SINGLE STRAIGHT LEADER.	8
BETULA SPP	BIRCH	24" BOX, 3"- 3 1/2" CALIPER, 8' - 9' HEIGHT, 4'-5' SPREAD	SINGLE STRAIGHT LEADER.	18
SHRUBS / GROUNDCOVER				
ILEX VERTICILLATA	WINTERBERRY	3 GALLON	36" ON CENTER	188
COTONEASTER LUCIDUS	COTONEASTER	3 GALLON	42" ON CENTER	205
JUNIPER CHINENSIS	CHINESE JUNIPER	1 GALLON	24" ON CENTER	330
ARONIA MELANOCARPA	CHOKEBERRY	1 GALLON	24" ON CENTER	94
VIBURNUM DENTATUM	ARROWOOD	3 GALLON	30" ON CENTER	54
SYRINGA X CHINENSIS 'LILAC SUNDAY'	CHINESE LILAC	1 GALLON	18" ON CENTER	360

SOD
MIXTURE OF KENTUCKY BLUEGRASS AND FINE FESCUE



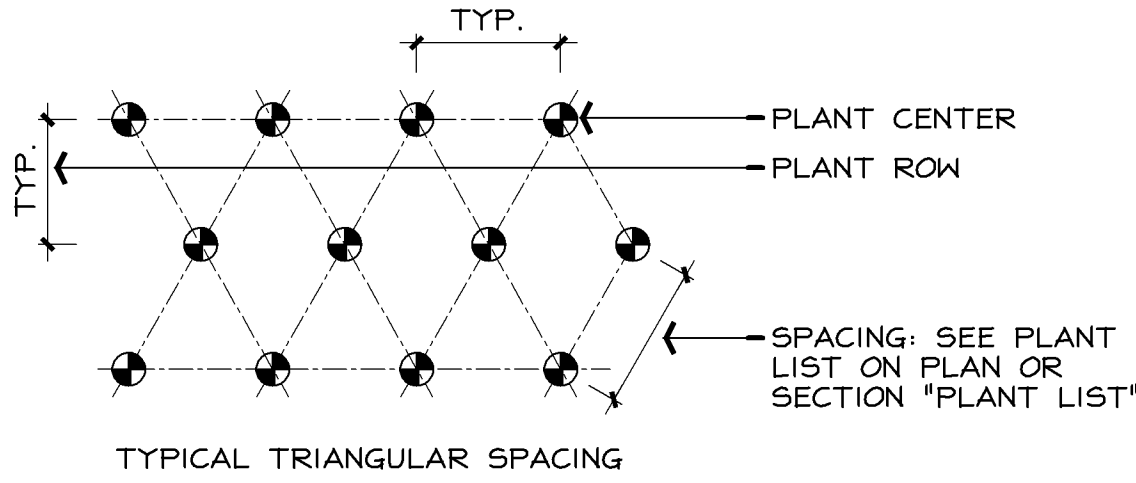
J GROUNDCOVER PLANTING - SECTION

1 1/2" = 1'-0"

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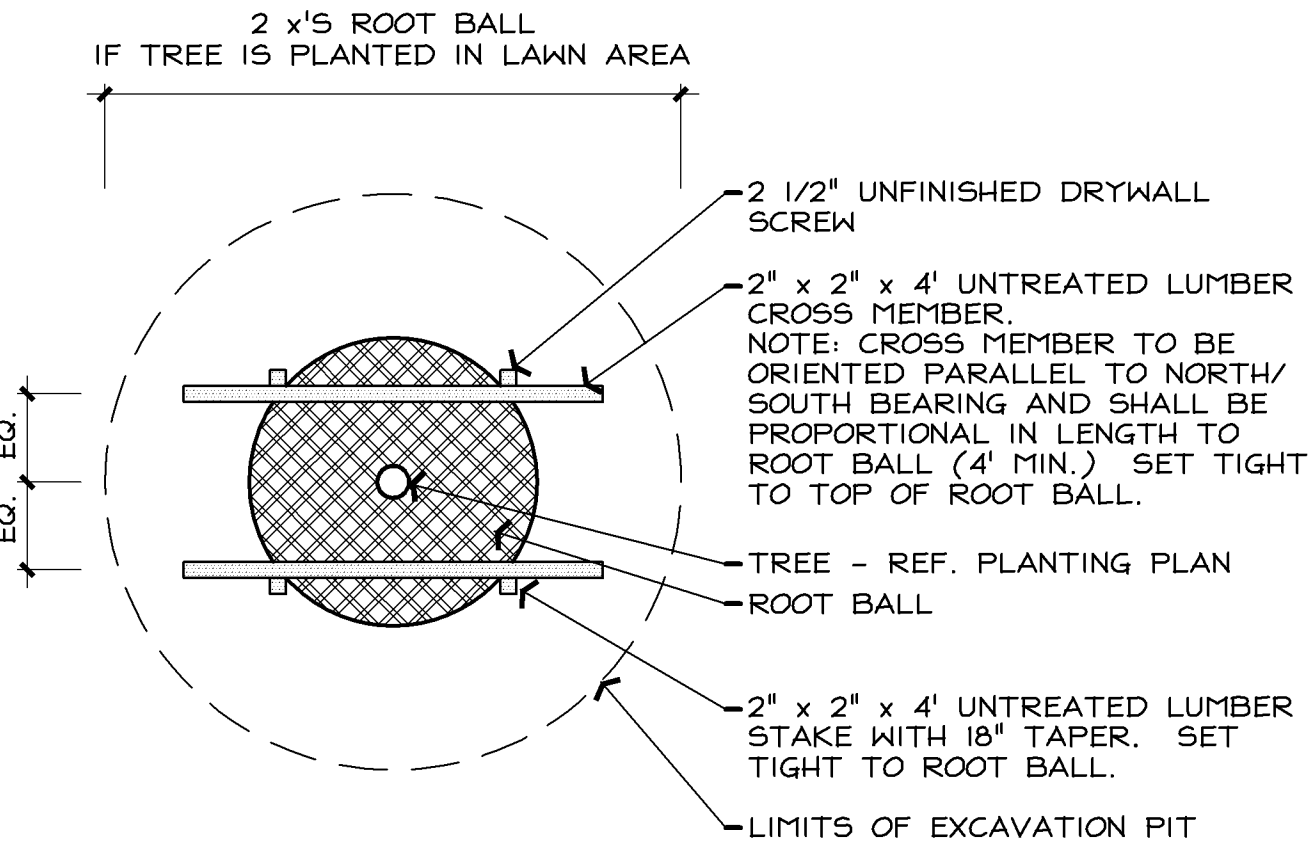
Michael S. Kendall

DATE: 13 APRIL 2017 LICENCE NUMBER 54499



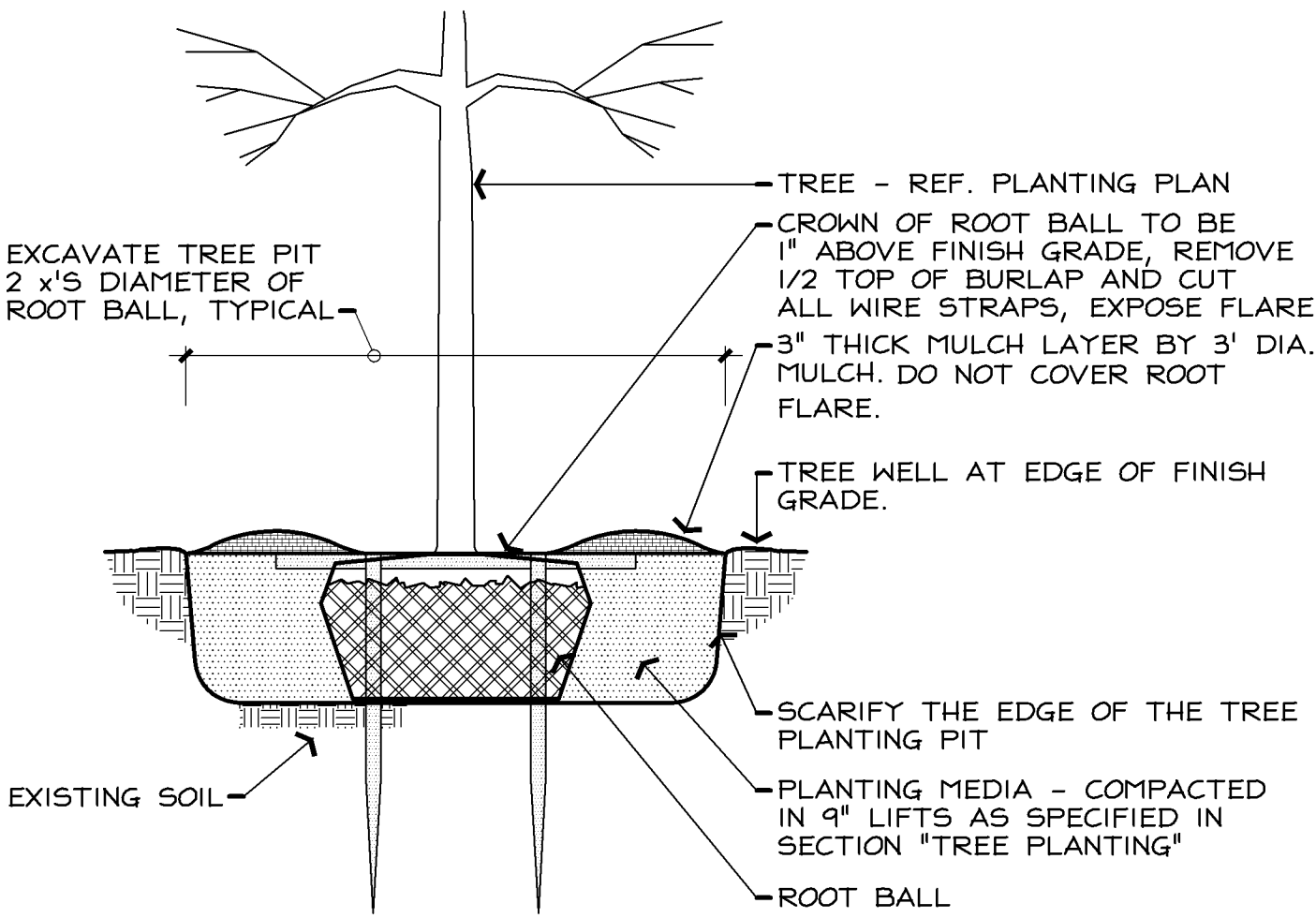
I PLANT SPACING - PLAN

1/2" = 1'-0"



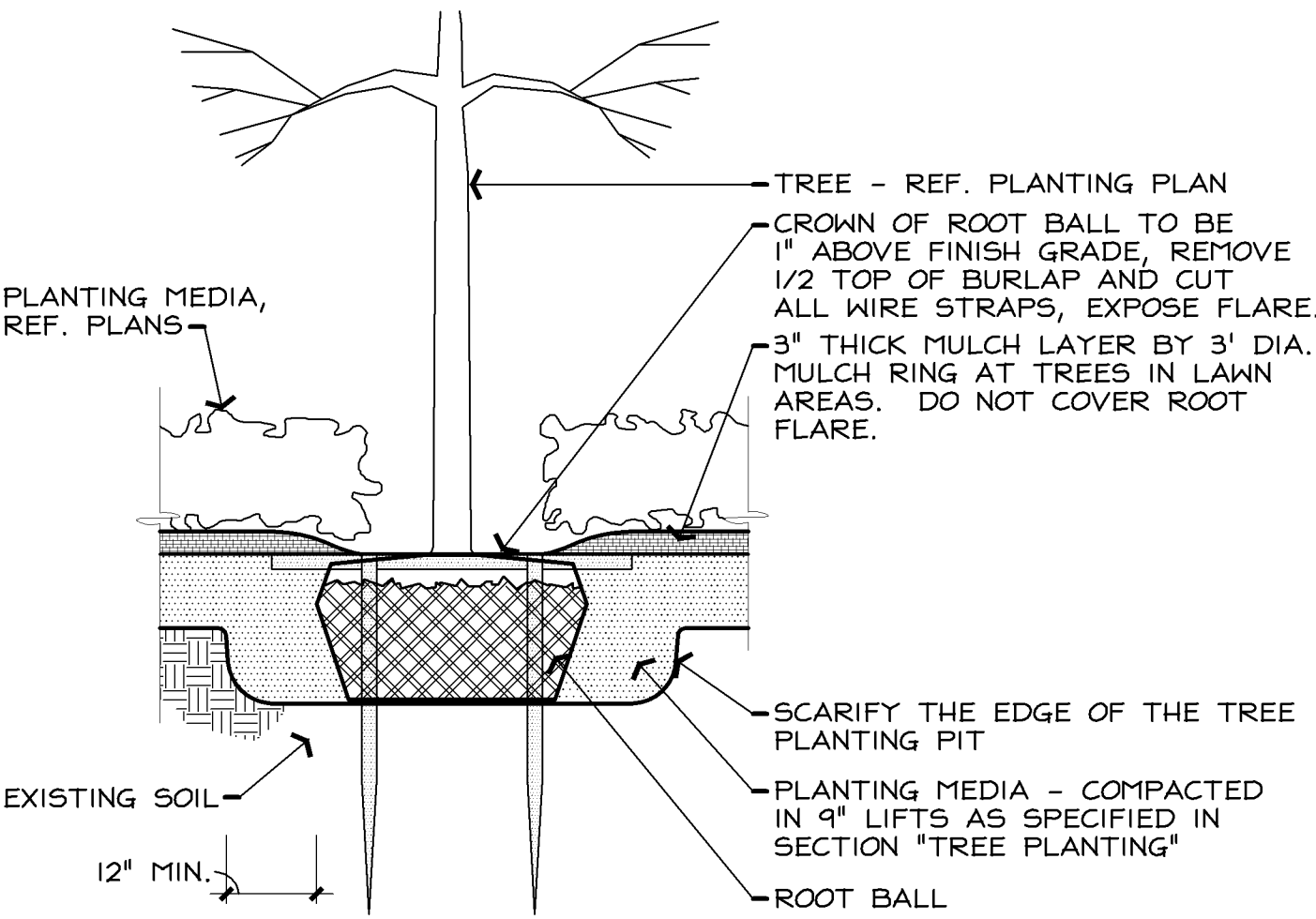
E TYPICAL TREE STAKING - PLAN

1/2" = 1'-0"



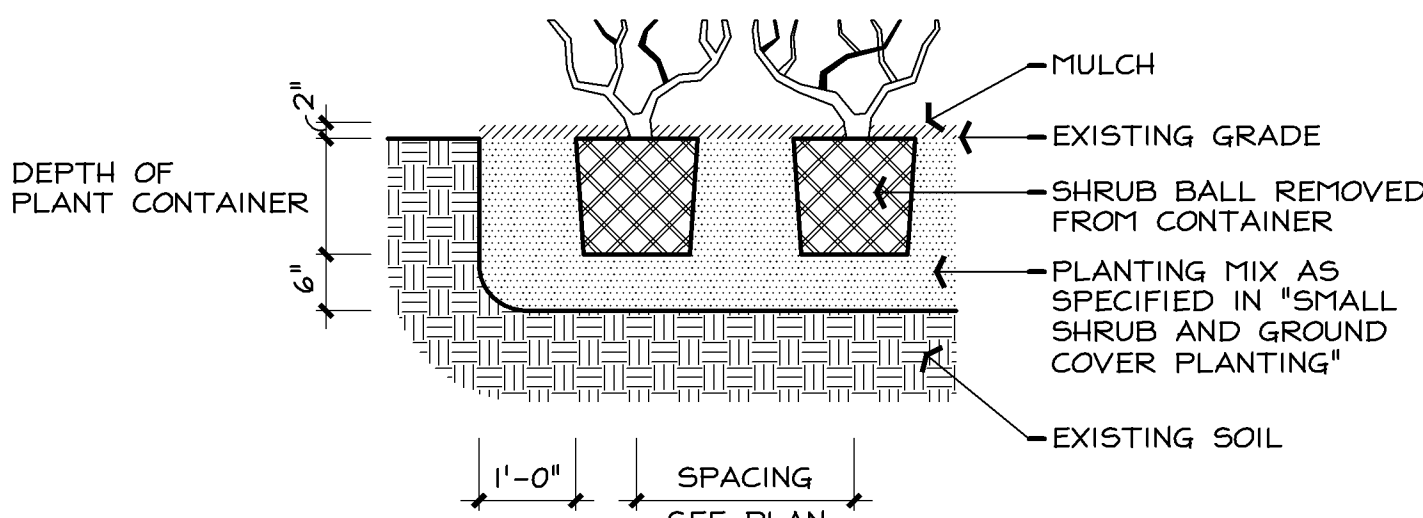
F TREE PLANTING IN LAWN - SECTION

1/2" = 1'-0"



G TREE PLANTING IN PLANTER - SECTION

1/2" = 1'-0"



H SHRUB PLANTING - SECTION

1/2" = 1'-0"

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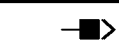
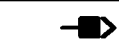
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REVISIONS:

PROJECT NO.: 16031
SHEET NO.: L302

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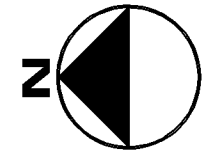
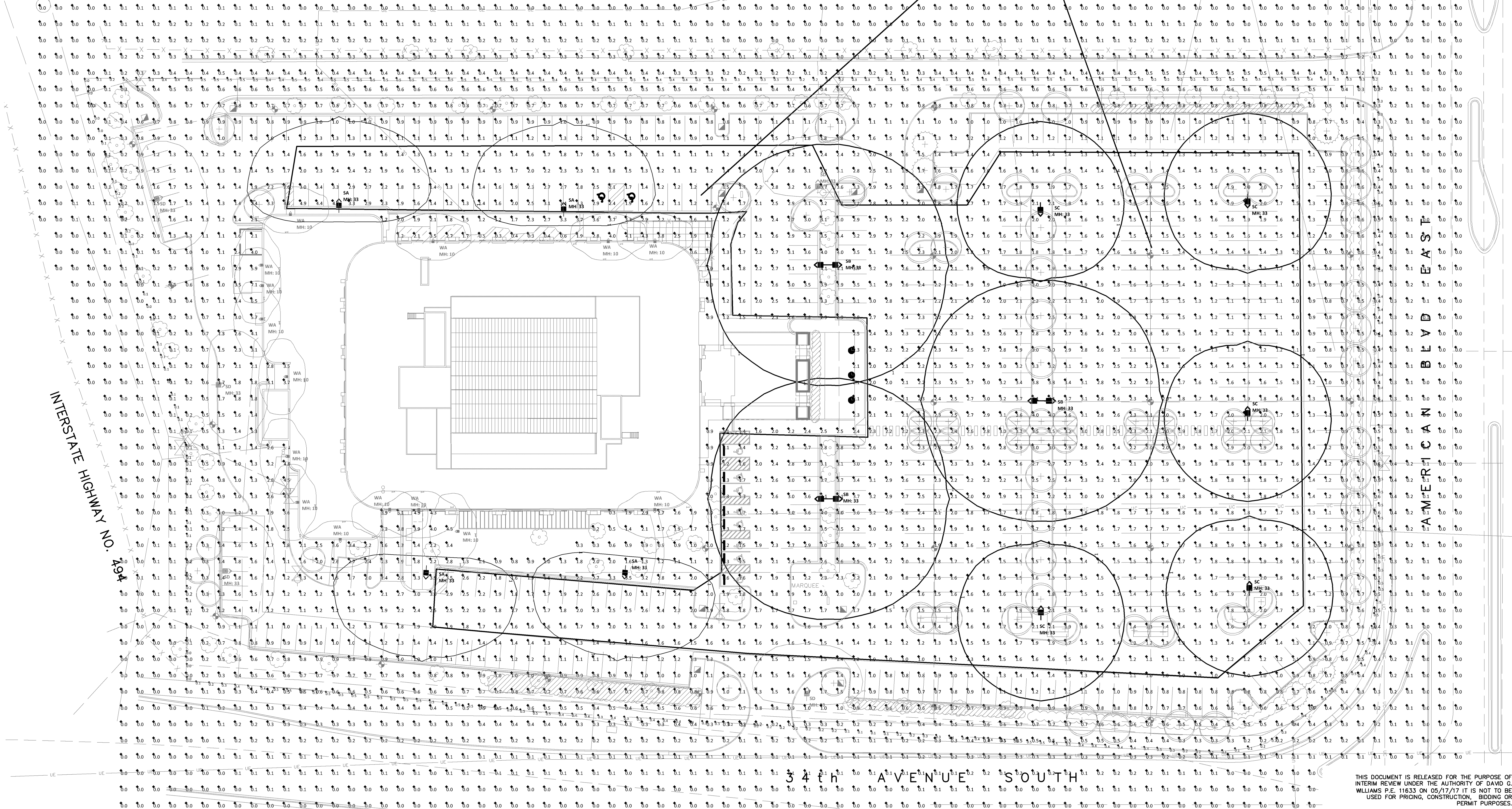
Luminaire Schedule										
Project: Embassy Suites - Bloomington, MN										
Symbol	Qty	Label	Arrangement	Manufacturer	Description	Arr. Watts	Lum. Watts	Lum. Lumens	LLF	BUG Rating
	4	SA	SINGLE	PHILIPS GARDCO	GL18-4-310LA-961A-NW-IS @ 33'	307.7	307.7	23733	0.810	B2-U1-G4
	3	SB	BACK-BACK	PHILIPS GARDCO	GL18-5-310LA-961A-NW @ 33'	633.4	316.7	29497	0.810	B5-U0-G3
	5	SC	SINGLE	PHILIPS GARDCO	GL18-5-310LA-961A-NW @ 33'	316.7	316.7	29497	0.810	B5-U0-G3
	5	SD	SINGLE	PHILIPS GARDCO	GL18-3-160LA-481A-NW-IS @ 33'	160	160	12316	0.810	B1-U1-G2
	15	WA	WALL MOUNT	PHILIPS STONCO	LPW16-7 @ 10'	36.3	36.3	3372	0.810	B1-U0-G1

Calculation Summary										
Label	Avg	Max	Min	Avg/Min	Max/Min	CalcType	Units	Grid Size (Ft.)	Grid Height (Ft.)	# Pts
All points	1.05	7.1	0.0	N.A.	N.A.	Illuminance	Fc	10	0	3727
Property Line	0.35	0.5	0.0	N.A.	N.A.	Illuminance	Fc	8	N.A	285
25' Perimeter Parking Area	1.08	1.80	0.60	1.80	3.00	Illuminance	Fc			283
Interior Parking Area	2.00	4.90	1.00	2.00	4.90	Illuminance	Fc			1184

Maintained Foot-Candles

Interior Parking Area
Average = 2.00
Maximum = 4.90
Minimum = 1.00
Avg/Min Ratio = 2.00
Max/Min Ratio = 4.90
No. Points = 1184

25' Perimeter Parking Area
Average = 1.08
Maximum = 1.80
Minimum = 0.60
Avg/Min Ratio = 1.80
Max/Min Ratio = 3.00
No. Points = 283



A LIGHTING PHOTOMETRIC PLAN

1" = 30'-0"

0 15' 30' 60'

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

David G. Williams
Date _____ Registration No. 11633

PREPARED UNDER THE SEAL OF DAVID G. WILLIAMS
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CHECKED BY: DGW
DATE: 05.17.2017
REVISIONS:

PROJECT NO.: M17005
SHEET NO.: MEP102

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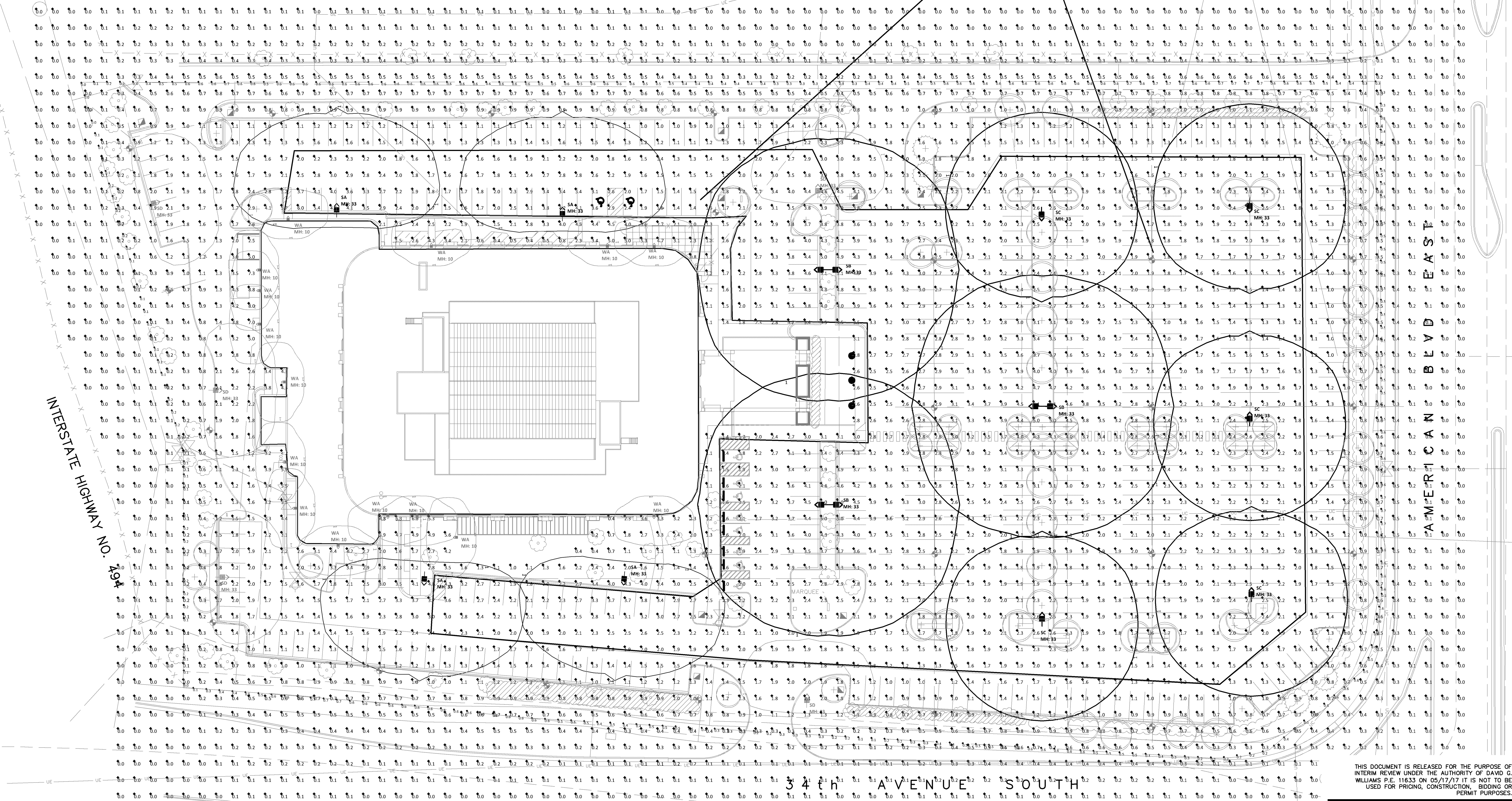
Initial Foot-Candles

Luminaire Schedule										
Project: Embassy Suites - Bloomington, MN										
Symbol	Qty	Label	Arrangement	Manufacturer	Description	Arr. Watts	Lum. Watts	Lum. Lumens	LLF	BUG Rating
SA	4	SA	SINGLE	PHILIPS GARDCO	GL18-4-310LA-961A-NW-IS @ 33'	307.7	307.7	23733	1.000	B2-U1-G4
SB	3	SB	BACK-BACK	PHILIPS GARDCO	GL18-5-310LA-961A-NW @ 33'	633.4	316.7	29497	1.000	B5-U0-G3
SC	5	SC	SINGLE	PHILIPS GARDCO	GL18-5-310LA-961A-NW @ 33'	316.7	316.7	29497	1.000	B5-U0-G3
SD	5	SD	SINGLE	PHILIPS GARDCO	GL18-3-160LA-481A-NW-IS @ 33'	160	160	12316	1.000	B1-U1-G2
WA	15	WA	WALL MOUNT	PHILIPS STONCO	LPW16-7 @ 10'	36.3	36.3	3372	1.000	B1-U0-G1

Calculation Summary										
Label	Avg	Max	Min	Avg/Min	Max/Min	CalcType	Units	Grid Size (Ft.)	Grid Height (Ft.)	# Pts
All points	1.30	8.8	0.0	N.A.	N.A.	Illuminance	Fc	10	0	3727
Property Line	0.43	0.7	0.0	N.A.	N.A.	Illuminance	Fc	8	N.A.	285
25' Perimeter Parking Area	1.33	2.20	0.70	1.90	3.14	Illuminance	Fc			283
Interior Parking Area	2.46	6.00	1.20	2.05	5.00	Illuminance	Fc			1184

Interior Parking Area
Average = 2.46
Maximum = 6.00
Minimum = 1.20
Avg/Min Ratio = 2.05
Max/Min Ratio = 5.00
No. Points = 1184

25' Perimeter Parking Area
Average = 1.33
Maximum = 2.20
Minimum = 0.70
Avg/Min Ratio = 1.90
Max/Min Ratio = 3.14
No. Points = 283



A LIGHTING PHOTOMETRIC PLAN

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Date _____ Registration No. 11633

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