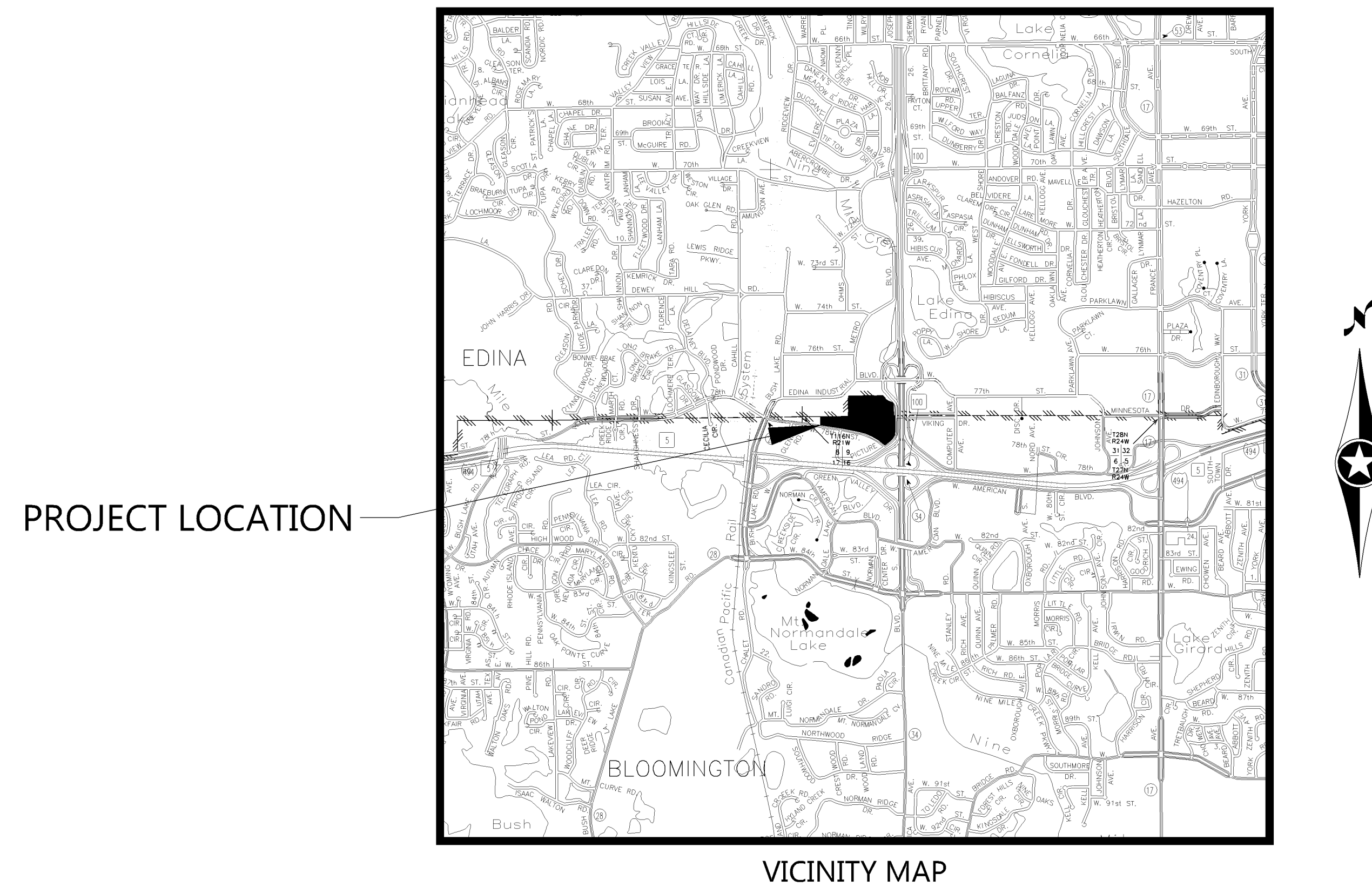


DOUBLETREE PARKING LOT RECONFIGURATION

7800 NORMANDALE BOULEVARD,
BLOOMINGTON, MN

PRELIMINARY PLANS



SHEET INDEX

SHEET NO.	DESCRIPTION
C0.0	TITLE SHEET
C1.0	EXISTING CONDITIONS PLAN
C1.1	SITE DEMOLITION PLAN (EAST)
C1.2	SITE DEMOLITION PLAN (WEST)
C2.0	OVERALL SITE PLAN
C2.1	SITE PLAN (EAST)
C2.2	SITE PLAN (WEST)
C3.0	GRADING, DRAINAGE AND EROSION CONTROL PLAN (EAST)
C3.1	GRADING, DRAINAGE AND EROSION CONTROL PLAN (WEST)
△ C3.2 - C3.3	SWPPP NOTES
C4.0	UTILITY PLAN
C5.0 - C5.4	CIVIL DETAILS
L1.0	LANDSCAPE PLAN (EAST)
L1.1	LANDSCAPE PLAN (WEST)
L2.0 - L2.1	LANDSCAPE DETAILS
E1.0	SITE LIGHTING PLAN
E2.0 - E2.1	SITE LIGHTING DETAILS

ENGINEERING DIVISION
 Approved by: **Jen Desrupe, PE**
 11/09/2017 12:56:43 PM

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 TERESA MASLOW
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NO	DATE	BY	CHKD	APPR	DESCRIPTION
1	05/15/17	TAM	MCA	MCA	CITY COMMENT REVISIONS △

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 C. AARON**

 Date 5/15/2017 License # 25721

DRAWN BY
P. GALZKI
 DESIGNED BY
P. GALZKI
 CHECKED BY
M. AARON
 COMM. NO. 10277.00



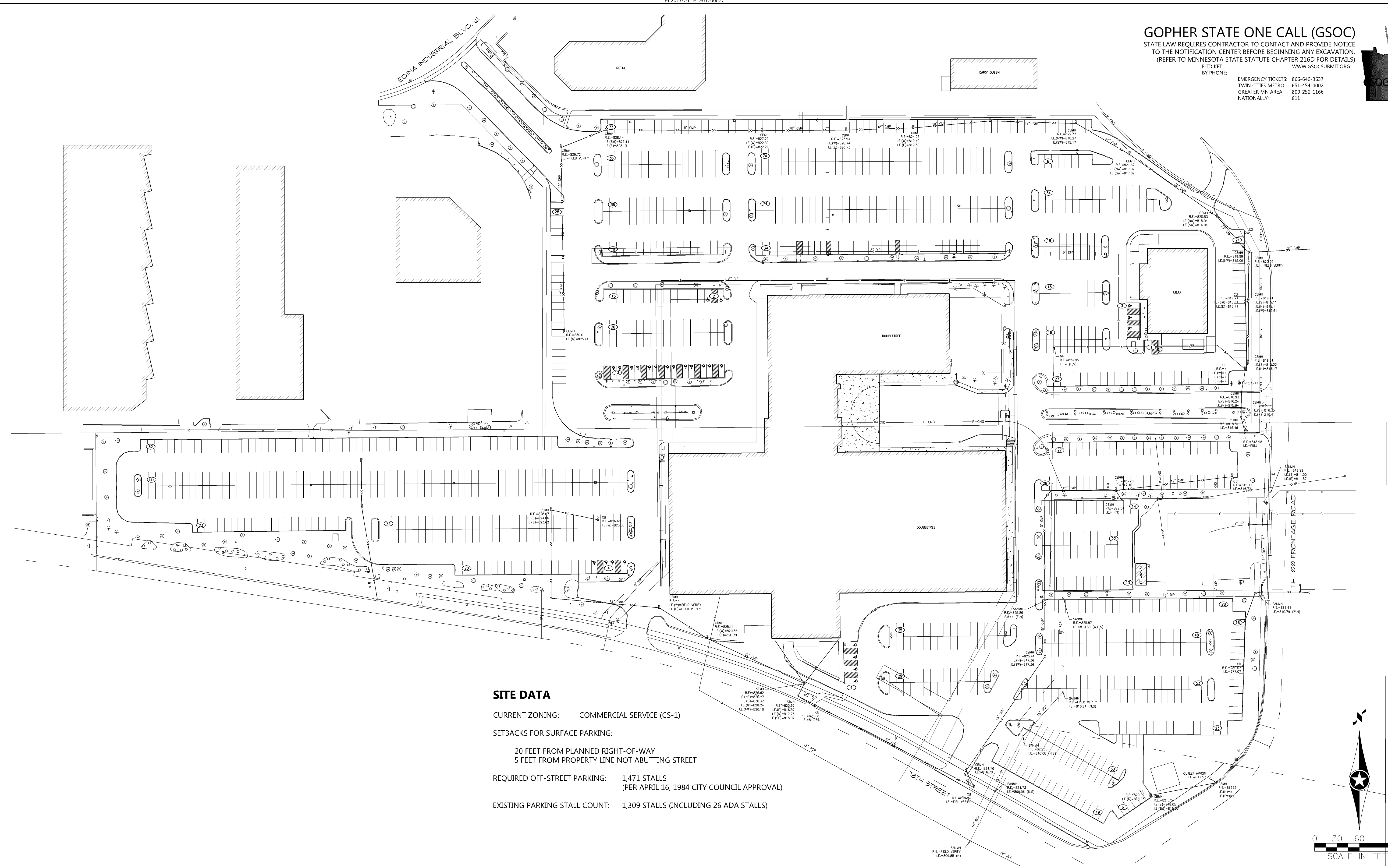
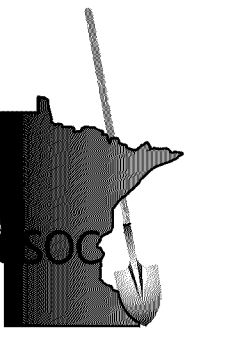
DOUBLETREE PARKING LOT RECONFIGURATION
 7800 NORMANDALE BLVD
 TITLE SHEET
 BLOOMINGTON, MINNESOTA

SHEET
 CO.0

GOPHER STATE ONE CALL (GSOC)

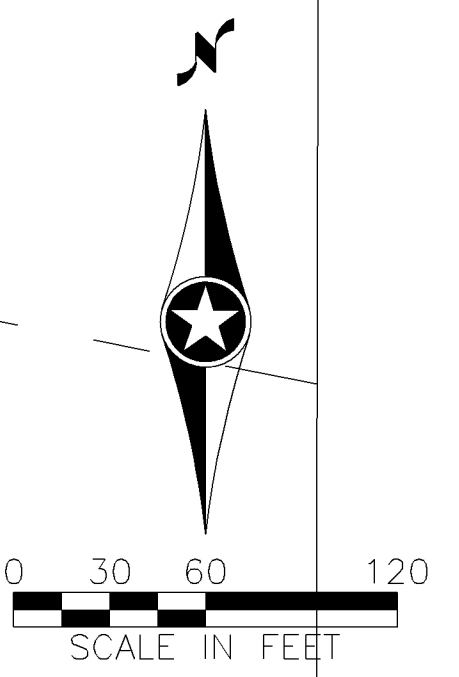
STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

E-TICKET: WWW.GSOCSUBMIT.ORG
BY PHONE:
EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



SITE DATA

CURRENT ZONING: COMMERCIAL SERVICE (CS-1)
SETBACKS FOR SURFACE PARKING:
20 FEET FROM PLANNED RIGHT-OF-WAY
5 FEET FROM PROPERTY LINE NOT ABUTTING STREET
REQUIRED OFF-STREET PARKING: 1,471 STALLS
(PER APRIL 16, 1984 CITY COUNCIL APPROVAL)
EXISTING PARKING STALL COUNT: 1,309 STALLS (INCLUDING 26 ADA STALLS)



4/14/2017 2:16:38 PM
H:\Projects\1000\10277\CAD_BIM\Plan\10277_C1-0_ExistingConditions.dwg:CLD

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 C. AARON
Michael C. Aaron
Date 5/15/2017 License # 25721

DRAWN BY P. GALZKI
DESIGNED BY P. GALZKI
CHECKED BY M. AARON
COMM. NO. 10277.00



DOUBLETREE PARKING LOT RECONFIGURATION
7800 NORMANDEALE BLVD
EXISTING CONDITIONS PLAN
BLOOMINGTON, MINNESOTA

SHEET C1.0

NO	DATE	BY	CKD	APPR

GOPHER STATE ONE CALL (GSOC)

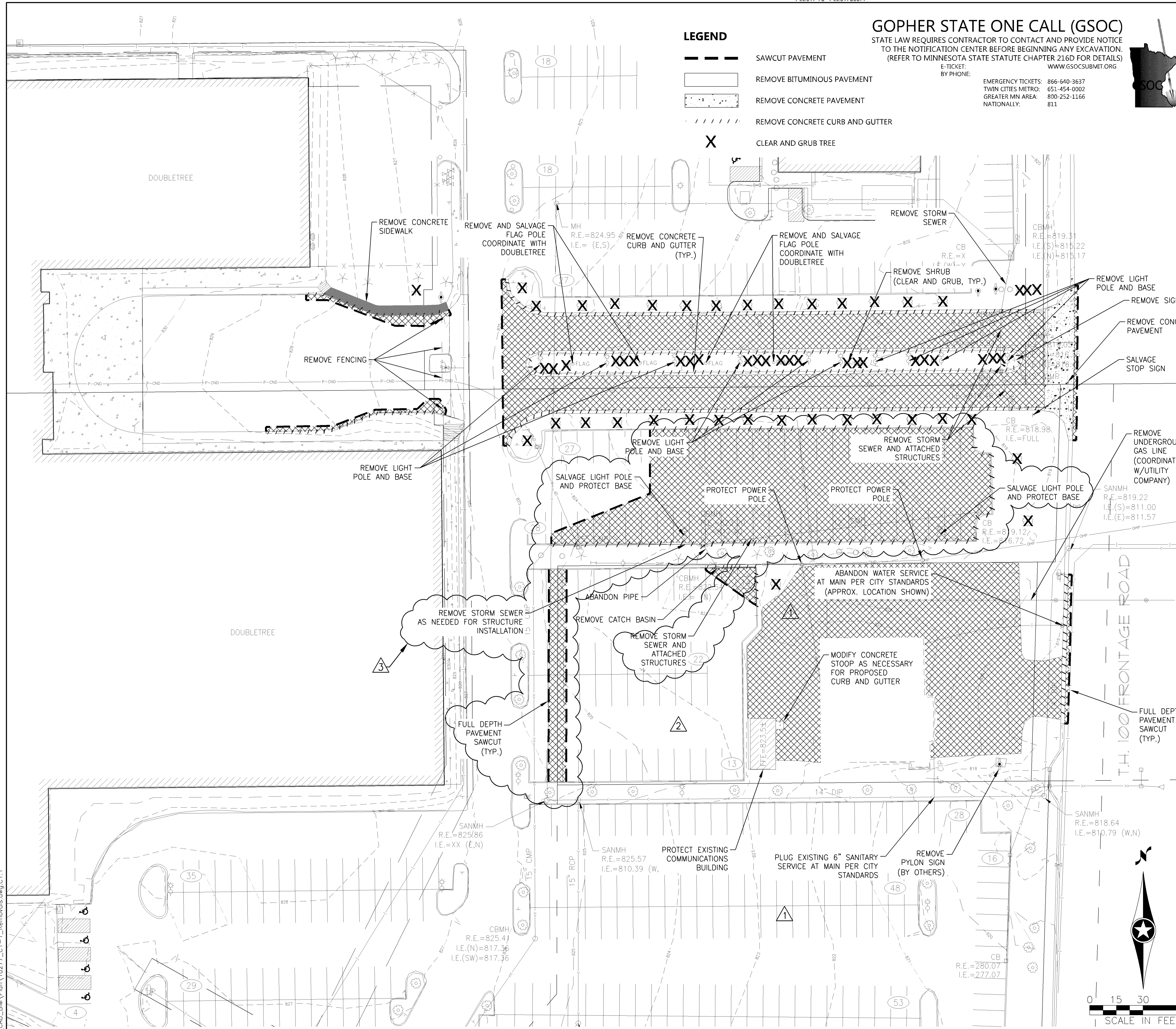
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LEGEND

- SAWCUT PAVEMENT
- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE CURB AND GUTTER
- CLEAR AND GRUB TREE



GENERAL NOTES

1. MINNESOTA STATE STATUTE REQUIRES NOTIFICATION PER "GOPHER STATE ONE CALL (GSOC)" PRIOR TO COMMENCING ANY GRADING, EXCAVATION OR UNDERGROUND WORK. THE ONE CALL SERVICE IS FREE OF CHARGE. SOME UNDERGROUND LINES ON PRIVATE PROPERTY ARE PRIVATELY OWNED AND MAY NOT BE MARKED BY A UTILITY. OTHER UNDERGROUND LINES, BETWEEN A METER AND THE HOME OR BUSINESS, MAY BE CONSIDERED PRIVATELY-OWNED. IN THESE CASES A CHARGE BY THE UTILITY MAY APPLY TO LOCATE AND MARK THOSE LINES.
2. THE CONTRACTOR SHALL CONTACT GSOC AT LEAST 48 HOURS IN ADVANCE FOR ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
3. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
6. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
7. BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS, BEST MANAGEMENT PRACTICES, STATE AND LOCAL REQUIREMENTS AND THE DETAILS SHOWN ON THE DETAIL SHEET(S) OF THE PROJECT PLANS.
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11. ADJUST ALL EXISTING STRUCTURES, BOTH PUBLIC AND PRIVATE TO THE PROPOSED GRADES WHERE DISTURBED AND COMPLY WITH ALL REQUIREMENTS OF THE UTILITY OWNERS. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
12. EXISTING TOPOGRAPHY PROVIDED BY SRF CONSULTING GROUP.

SITE DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL UTILITY LOCATES. THE CONTRACTOR MUST HIRE A PRIVATE UTILITY LOCATING SERVICE TO LOCATE PRIVATE UTILITIES IN THE CONSTRUCTION AREA PRIOR TO ANY EXCAVATION.
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5. CLEAR AND GRUB AND REMOVE ALL TREES, VEGETATION AND SITE DEBRIS PRIOR TO GRADING. ALL REMOVED MATERIAL SHALL BE HAULED FROM THE SITE DAILY. ALL CLEARING AND GRUBBING AND REMOVALS SHALL BE PERFORMED PER THE CONTRACT SPECIFICATIONS. EROSION CONTROL MEASURES SHALL BE IMMEDIATELY ESTABLISHED UPON REMOVAL. SEE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
6. CONTRACTOR SHALL REMOVE ALL SITE SURFACE FEATURES WITHIN REMOVAL LIMITS UNLESS OTHERWISE NOTED.
7. REMOVE EXISTING IRRIGATION SYSTEM WHERE IT CONFLICTS WITH CONSTRUCTION. SEE LANDSCAPE PLAN NOTES FOR PROPOSED IRRIGATION CONSTRUCTION.

CITY OF BLOOMINGTON NOTES

1. CONTRACTOR SHALL OBTAIN A PUBLIC WORKS PERMIT APPLICATION FOR OBSTRUCTIONS AND CONCRETE WORK WITHIN RIGHT-OF-WAY. PERMIT IS REQUIRED PRIOR TO REMOVALS OR INSTALLATION. CONTACT BRIAN HANSEN AT 952-563-4543 OR BHANSEN@BLOOMINGTONMN.GOV FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
2. PUBLIC WORKS PERMIT APPLICATION FOR UNDERGROUND WORK WITHIN THE RIGHT-OF-WAY IS REQUIRED PRIOR TO REMOVAL OR INSTALLATION OF SANITARY, WATER OR STORM WORK WITHIN THE PUBLIC RIGHT-OF-WAY. CONTACT UTILITIES AT 952-563-4568 FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
3. CONTRACTOR SHALL CONTACT UTILITIES DIVISION (952-563-8777) REGARDING PERMIT FOR STORM SEWER CONSTRUCTION.
4. RESTORE CITY STREET BY COMPLYING WITH THE CITY STREET IMPROVEMENT POLICY; CONTACT UTILITIES (952-563-4568) FOR THE REQUIREMENTS AND SHOW ON THIS PLAN.
5. ALL PARKING STALLS TO BE PAINTED WITH WHITE STRIPING.
6. ALL CONSTRUCTION AND POST-CONSTRUCTION PARKING SHALL BE ON-SITE - NO ON-STREET PARKING/LOADING/UNLOADING ALLOWED.
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8. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENTS.
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10. LOCATE AND PROTECT EXISTING UNDERGROUND UTILITIES IN ALL CONSTRUCTION AND DEMOLITION AREAS.
11. ABANDON WATER AND SEWER SERVICES AS DIRECTED BY BLOOMINGTON UTILITIES INSPECTOR FOR THE ALASKAN FUR BUILDING.
12. RETURN ALASKAN FUR WATER METER TO BLOOMINGTON UTILITIES.

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NO	DATE	BY	CHKD	APPR	
3	07/14/17	PSG	XXX	XXX	STORMWATER TREATMENT REDESIGN
2	06/21/17	SNW	XXX	XXX	ADDITION OF PERMEABLE PAVEMENT BECAUSE OF IN-CONSTRUCTION CONDITIONS.
1	05/15/17	TAM	MCA	MCA	CITY COMMENT REVISIONS

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 C. AARON**

 Date: 5/15/2017 License # 25721

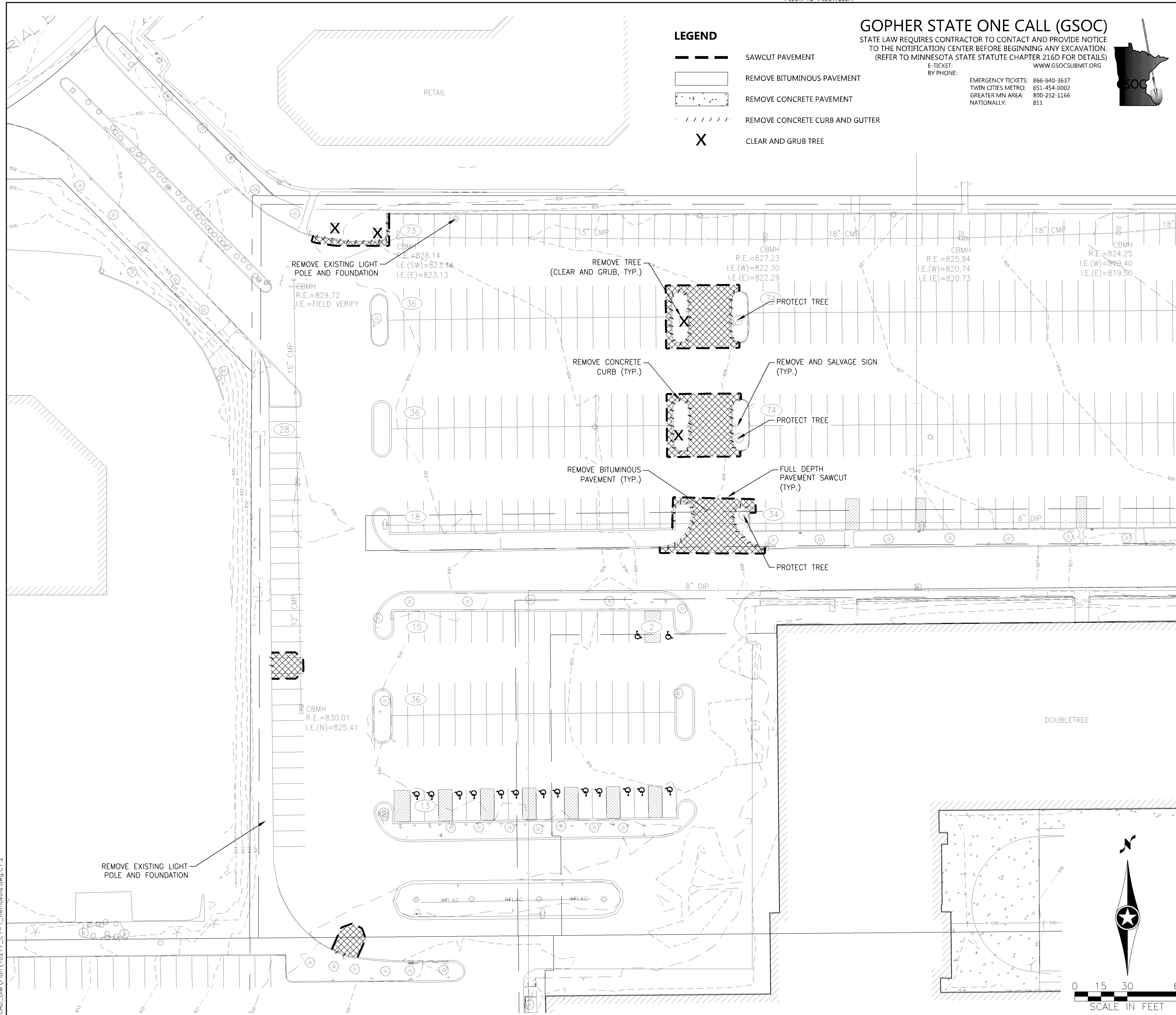
DRAWN BY: P. GALZKI
 DESIGNED BY: P. GALZKI
 CHECKED BY: M. AARON
 COMM. NO. 10277.00



**ENGINEERS
 PLANNERS
 DESIGNERS**

DOUBLETREE PARKING LOT RECONFIGURATION
 7800 NORMANDALE BLVD
 SITE DEMOLITION PLAN (EAST)
 BLOOMINGTON, MINNESOTA

SHEET
 C1.1



GOPHER STATE ONE CALL (GSOC)

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

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GREATER MN AREA: 800-252-1166
NATIONALLY: 811



GENERAL NOTES

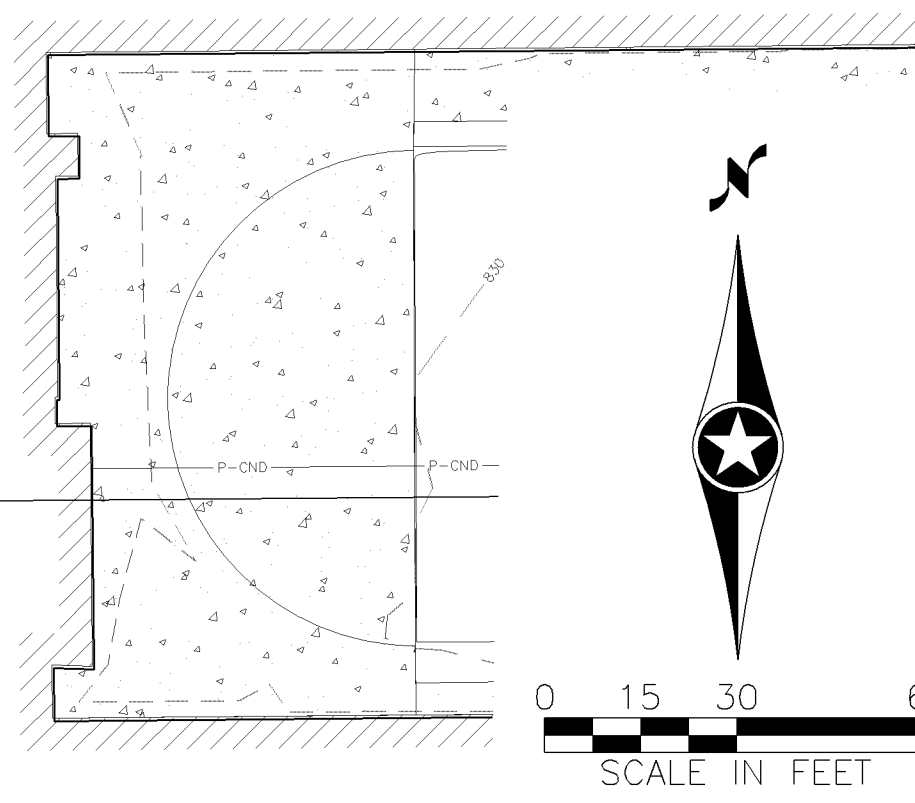
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LEGEND

	SAWCUT PAVEMENT
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE CONCRETE CURB AND GUTTER
	CLEAR AND GRUB TREE

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 C. AARON**
Michael C. Aaron
Date 5/15/2017 License # 25721

DRAWN BY: P. GALZKI
DESIGNED BY: P. GALZKI
CHECKED BY: M. AARON
COMM. NO. 10277.00



DOUBLETREE PARKING LOT RECONFIGURATION
7800 NORMANDALE BLVD
SITE DEMOLITION PLAN (WEST)
BLOOMINGTON, MINNESOTA

SHEET
C1.2

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NO	DATE	BY	CKD	APPR

SITE DATA

CURRENT ZONING: COMMERCIAL SERVICE (CS-1)

SETBACKS FOR SURFACE PARKING:

20 FEET FROM PLANNED RIGHT-OF-WAY
5 FEET FROM PROPERTY LINE NOT ABUTTING STREET

REQUIRED OFF-STREET PARKING: 1,471 STALLS
(PER APRIL 16, 1984 CITY COUNCIL APPROVAL)

ADA PARKING REQUIRED: 25 STALLS
(20/1,000 STALLS PLUS 1 FOR EACH 100 OVER 1,000)

OFF-STREET PARKING PROVIDED:

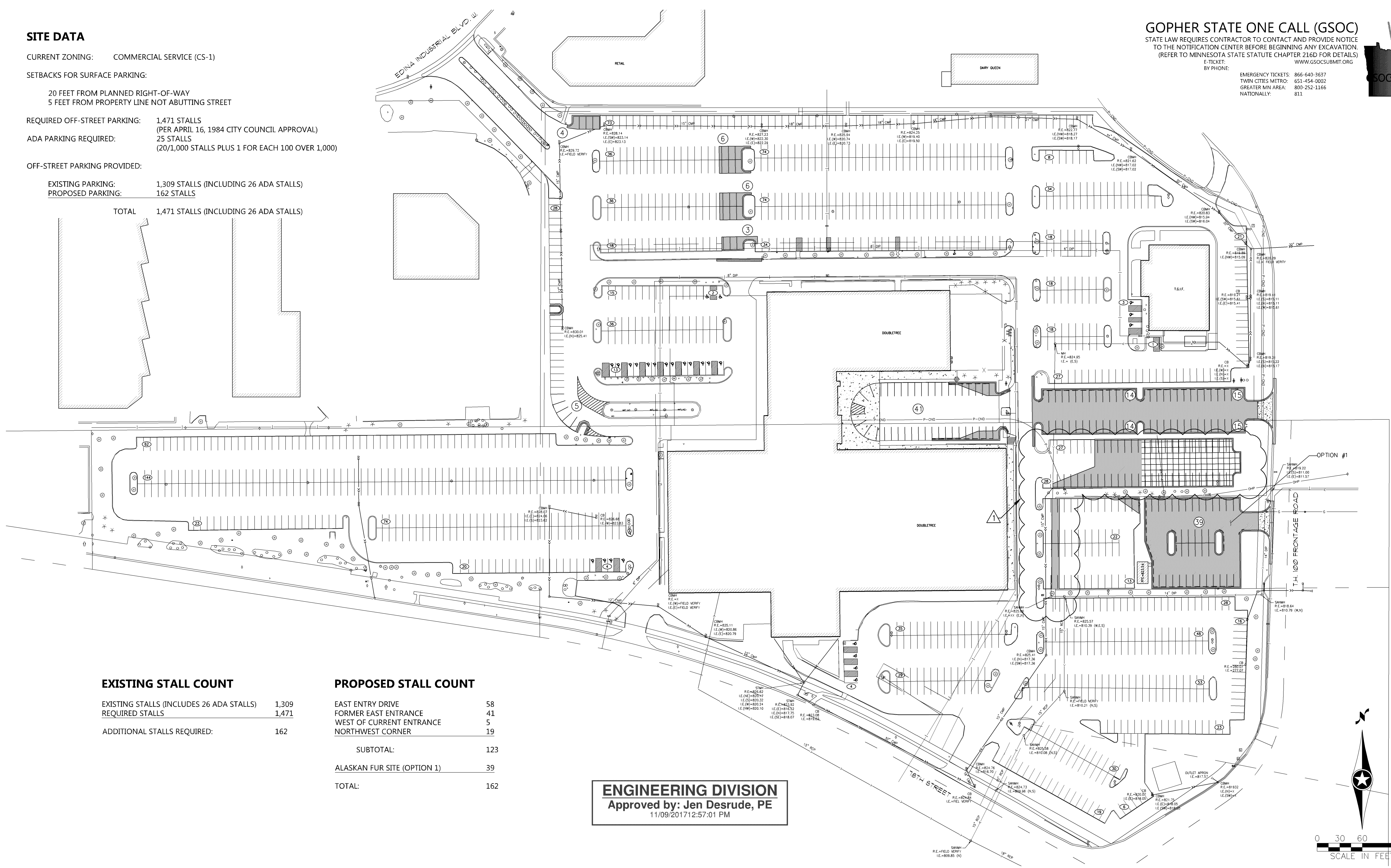
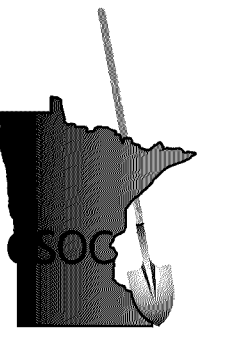
EXISTING PARKING: 1,309 STALLS (INCLUDING 26 ADA STALLS)
PROPOSED PARKING: 162 STALLS

TOTAL 1,471 STALLS (INCLUDING 26 ADA STALLS)

GOPHER STATE ONE CALL (GSOC)

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GREATER MN AREA: 800-252-1166
NATIONALLY: 811



EXISTING STALL COUNT

EXISTING STALLS (INCLUDES 26 ADA STALLS)	1,309
REQUIRED STALLS	1,471
ADDITIONAL STALLS REQUIRED:	162

PROPOSED STALL COUNT

EAST ENTRY DRIVE	58
FORMER EAST ENTRANCE	41
WEST OF CURRENT ENTRANCE	5
NORTHWEST CORNER	19
SUBTOTAL:	123
ALASKAN FUR SITE (OPTION 1)	39
TOTAL:	162

ENGINEERING DIVISION
Approved by: Jen Desrude, PE
11/09/2017 12:57:01 PM

8/15/2017 12:56:41 PM
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NO	DATE	BY	CKD	APPR	
1	07/14/17	PSG	MCA	MCA	STORMWATER TREATMENT REDESIGN

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 C. AARON
Michael C. Aaron
Date 5/15/2017 License # 25721

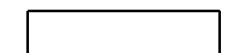
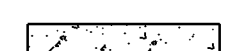
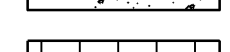
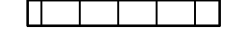

DRAWN BY: P. GALZKI
DESIGNED BY: P. GALZKI
CHECKED BY: M. AARON
COMM. NO. 10277.00



DOUBLETREE PARKING LOT RECONFIGURATION
7800 NORMANDALE BLVD
OVERALL SITE PLAN
BLOOMINGTON, MINNESOTA

SHEET
C2.0

LEGEND

-  BITUMINOUS PAVEMENT
-  CONCRETE PAVEMENT
-  PERVIOUS ASPHALT PAVEMENT
-  CONCRETE CURB AND GUTTER
-  TIP-OUT GUTTER

GOPHER STATE ONE CALL (GSOC)

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

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 BY PHONE: EMERGENCY TICKETS: 866-640-3637
 TWIN CITIES METRO: 651-454-0002
 GREATER MN AREA: 800-252-1166
 NATIONALLY: 811



GENERAL NOTES

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12. EXISTING TOPOGRAPHY PROVIDED BY SRF CONSULTING GROUP.

SITE NOTES

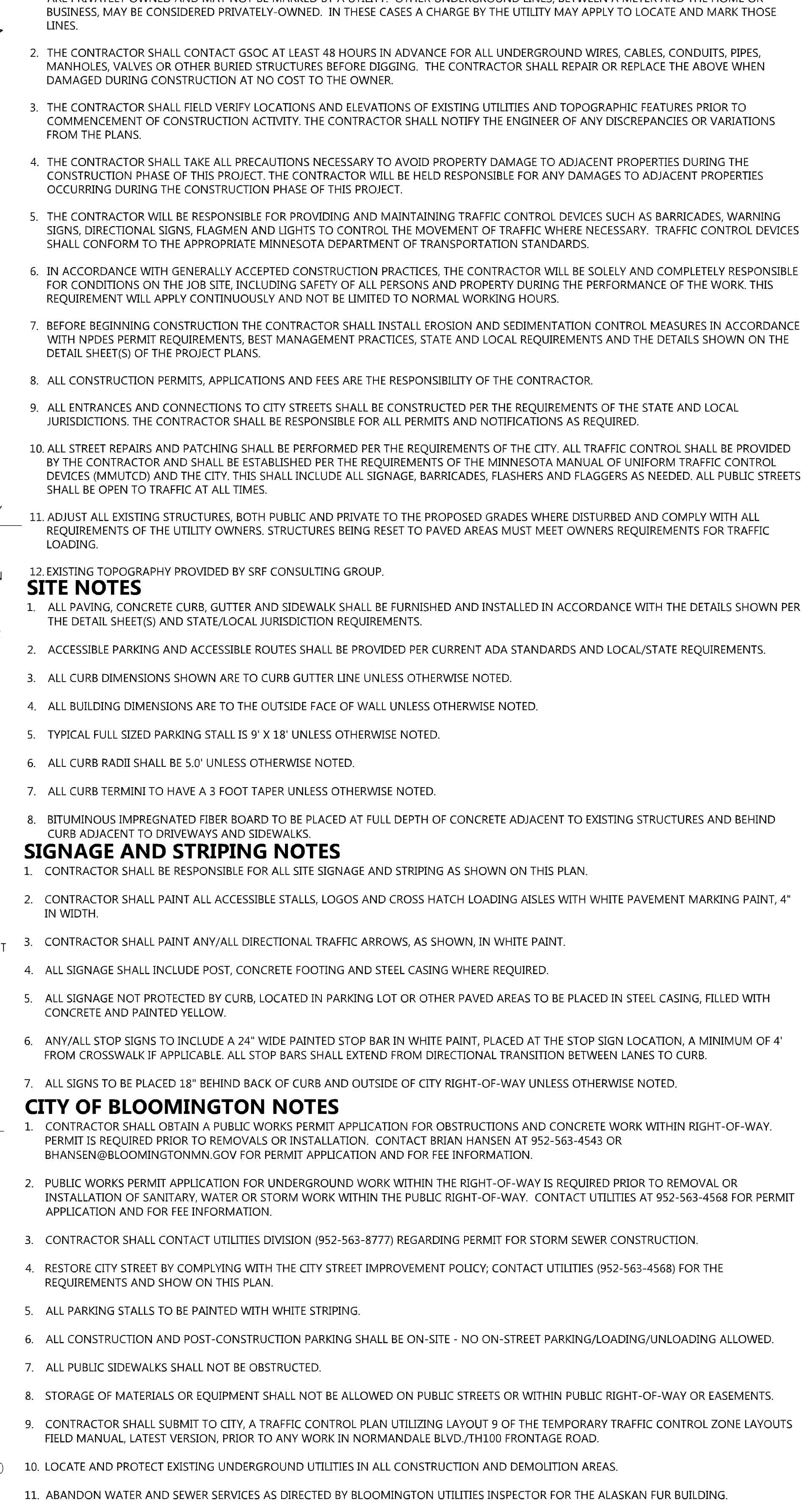
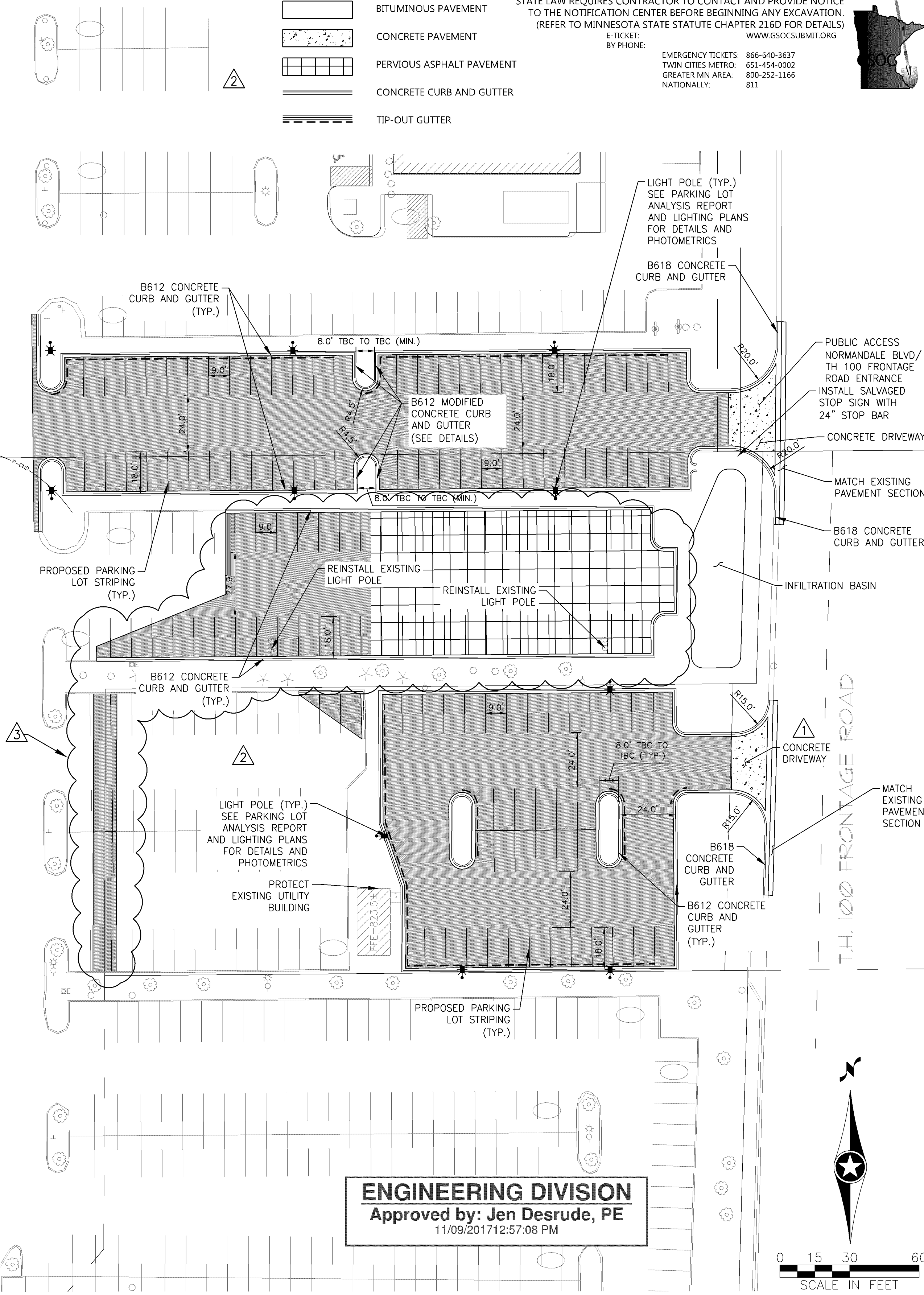
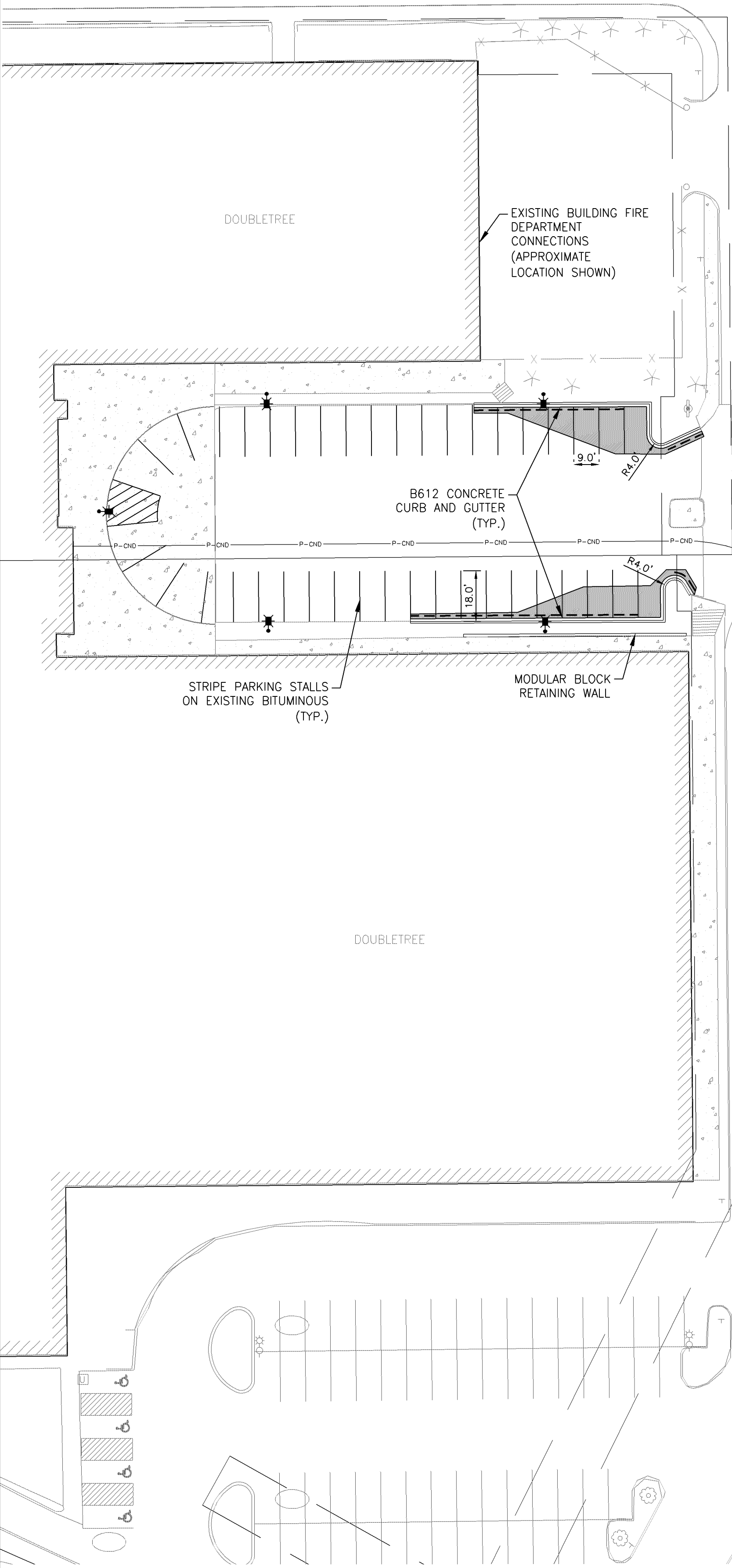
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3. ALL CURB DIMENSIONS SHOWN ARE TO CURB GUTTER LINE UNLESS OTHERWISE NOTED.
4. ALL BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF WALL UNLESS OTHERWISE NOTED.
5. TYPICAL FULL SIZED PARKING STALL IS 9' X 18' UNLESS OTHERWISE NOTED.
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SIGNAGE AND STRIPING NOTES

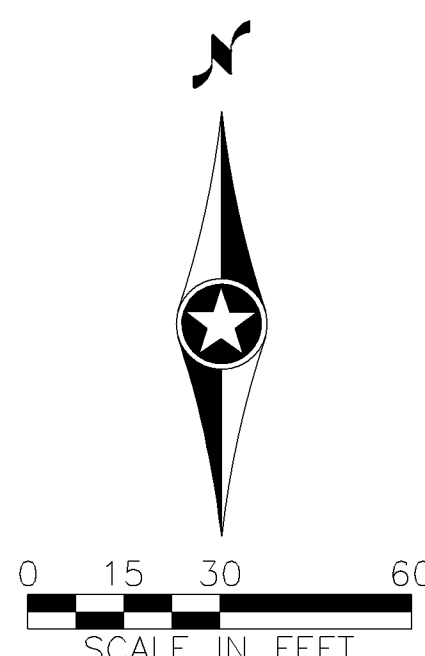
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ENGINEERING DIVISION
 Approved by: Jen Desrude, PE
 11/09/2017 12:57:08 PM



8/22/2017 4:18:04 PM
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NO	DATE	BY	CHKD	APPR	DESCRIPTION
3	07/14/17	PSG	XXX	XXX	STORMWATER TREATMENT REDESIGN
2	06/21/17	SNW	XXX	XXX	ADDITION OF PERMEABLE PAVEMENT BECAUSE OF IN-CONSTRUCTION CONDITIONS.
1	05/15/17	TAM	MCA	MCA	CITY COMMENT REVISIONS

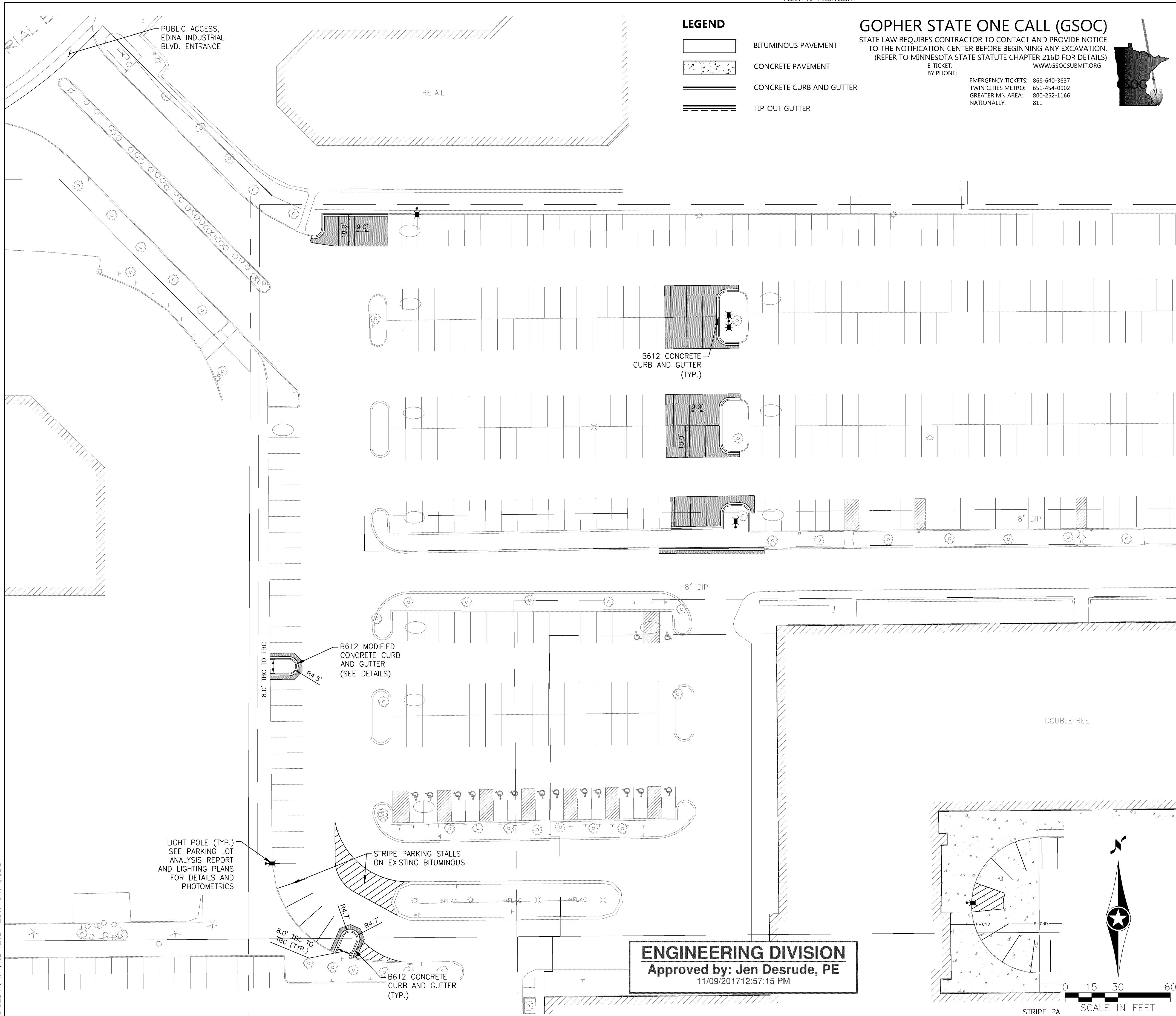
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Print Name: MICHAEL C. AARON

 Date 5/15/2017 License # 25721

DRAWN BY: P. GALZKI
 DESIGNED BY: P. GALZKI
 CHECKED BY: M. AARON
 COMM. NO. 10277.00



**ENGINEERS
 PLANNERS
 DESIGNERS**

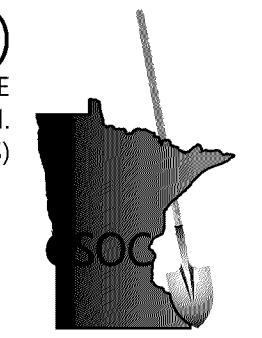
DOUBLETREE PARKING LOT RECONFIGURATION 7800 NORMANDALE BLVD SITE PLAN (EAST) BLOOMINGTON, MINNESOTA		SHEET C2.1
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LEGEND

	BITUMINOUS PAVEMENT
	CONCRETE PAVEMENT
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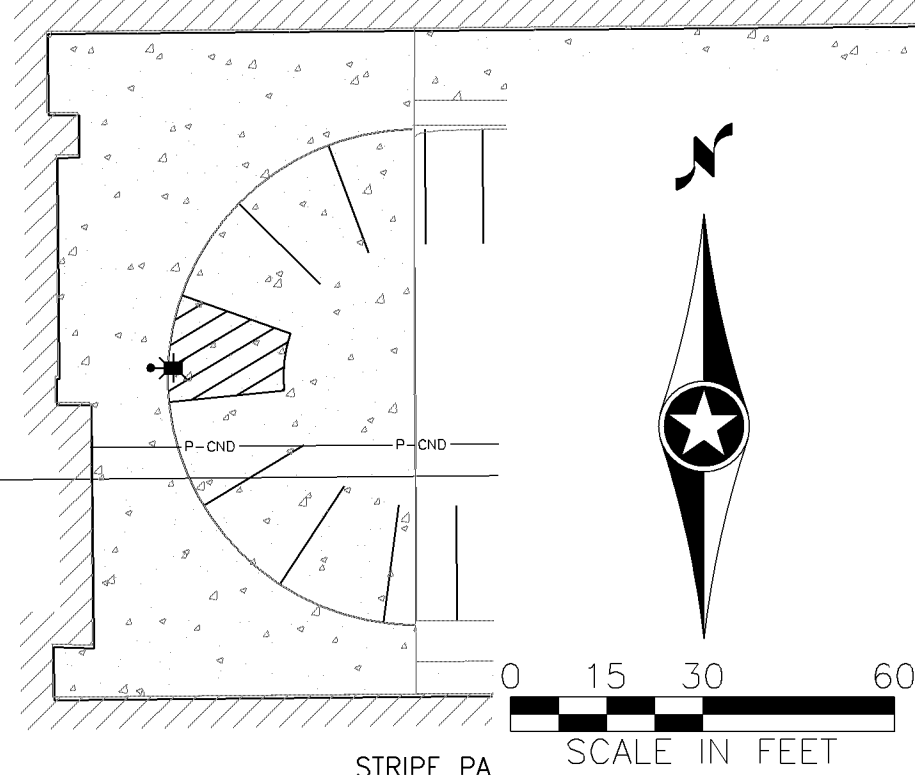
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- RETURN ALASKAN FUR WATER METER TO BLOOMINGTON UTILITIES.

ENGINEERING DIVISION
 Approved by: **Jen Desrupe, PE**
 11/09/2017 12:57:15 PM



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 C. AARON**
 Date: 5/15/2017 License # 25721

DRAWN BY: P. GALZKI
 DESIGNED BY: P. GALZKI
 CHECKED BY: M. AARON
 COMM. NO. 10277.00



**ENGINEERS
 PLANNERS
 DESIGNERS**

DOUBLETREE PARKING LOT RECONFIGURATION
 7800 NORMANDEALE BLVD
 SITE PLAN (WEST)
 BLOOMINGTON, MINNESOTA

SHEET
 C2.2

5/22/2017 4:18:04 PM
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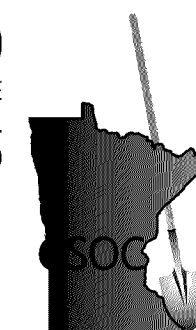
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GOPHER STATE ONE CALL (GSOC)

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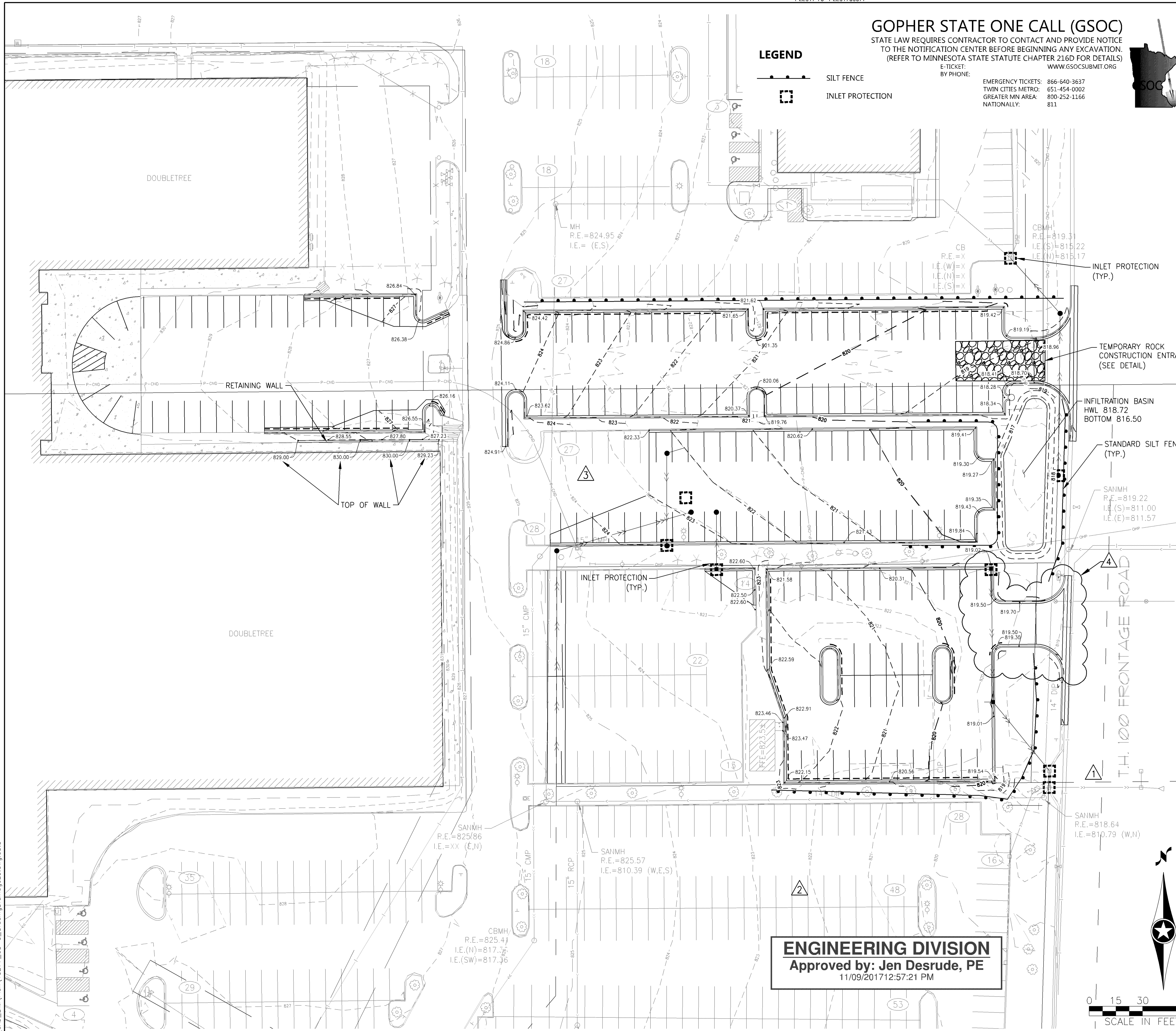
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LEGEND

- SILT FENCE
- INLET PROTECTION



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- EXISTING TOPOGRAPHY PROVIDED BY SRP CONSULTING GROUP.

GRADING, DRAINAGE & EROSION CONTROL NOTES

- SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT AREAS ELEVATIONS.
- ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 4 INCHES OF TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED.
- REFER TO THE GEOTECHNICAL EVALUATION REPORT, DATED JUNE 9, 2015 AS PREPARED BY BRAUN INTERTEC CORPORATION FOR AN EXISTING SUBSURFACE SITE CONDITION ANALYSIS AND CONSTRUCTION RECOMMENDATIONS.
- STREETS MUST BE CLEANED AND SWEEPED WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
- DUST MUST BE ADEQUATELY CONTROLLED.
- SEE SWPPP NOTES FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.
- SEE SITE PLAN FOR TIP-OUT GUTTER LOCATIONS.

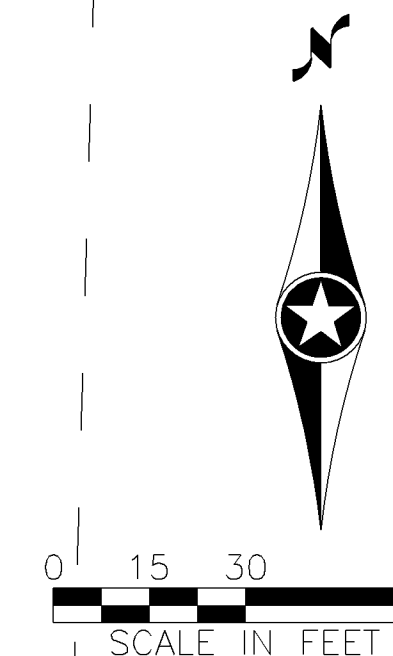
NINE MILE CREEK WATERSHED DISTRICT (NMCWD) NOTES

- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SURFACE OR VEGETATION ALTERATION AND BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND VEGETATION IS ESTABLISHED AS DETERMINED BY NMCWD.
- IF SILT FENCE IS USED, THE BOTTOM FLAP MUST BE BURIED AND THE MAXIMUM ALLOWABLE SPACING BETWEEN POSTS IS 4-FOOT ON CENTER. ALL POSTS MUST BE EITHER 2-INCH X 2-INCH PINE, HARDWOOD, OR STEEL FENCE POSTS. IF HAY BALES ARE USED, ALL BALES MUST BE STAKED IN PLACE AND REINFORCED ON THE DOWNSTREAM SIDE WITH SNOW FENCE.
- ALL AREAS ALTERED BECAUSE OF CONSTRUCTION MUST BE RESTORED WITH SEED AND DISCED MULCH, SOD, WOOD FIBER BLANKET, OR BE HARD SURFACED WITHIN TWO WEEKS AFTER COMPLETION OF LAND ALTERATION.
- UPON FINAL STABILIZATION, THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL EROSION CONTROL MEASURES INSTALLED THROUGHOUT THE PROJECT SITE.
- AT THE ENTRYWAY ONTO THE SITE, A ROCK FILTER DIKE BEING A MINIMUM OF TWO FEET IN HEIGHT AND HAVING MAXIMUM SIDE SLOPES OF 4:1 MUST BE CONSTRUCTED. THIS ROCK FILTER DIKE WILL ENABLE CONSTRUCTION TRAFFIC TO ENTER THE SITE AND ALSO PROVIDE AN EROSION CONTROL FACILITY.
- IF DEWATERING IS REQUIRED AND SUMP PUMPS ARE USED, ALL PUMPED WATER MUST BE DISCHARGED THROUGH AN EROSION CONTROL FACILITY PRIOR TO LEAVING THE CONSTRUCTION SITE. PROPER ENERGY DISSIPATION MUST BE PROVIDED AT THE OUTLET OF THE PUMP SYSTEM.
- THE CONTRACTOR SHALL NOTIFY THE NMCWD A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

CITY OF BLOOMINGTON NOTES

- CONTRACTOR SHALL OBTAIN A PUBLIC WORKS PERMIT APPLICATION FOR OBSTRUCTIONS AND CONCRETE WORK WITHIN RIGHT-OF-WAY. PERMIT IS REQUIRED PRIOR TO REMOVALS OR INSTALLATION. CONTACT BRIAN HANSEN AT 952-563-4543 OR BHANSEN@BLOOMINGTONMN.GOV FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
- PUBLIC WORKS PERMIT APPLICATION FOR UNDERGROUND WORK WITHIN THE RIGHT-OF-WAY IS REQUIRED PRIOR TO REMOVAL OR INSTALLATION OF SANITARY, WATER OR STORM WORK WITHIN THE PUBLIC RIGHT-OF-WAY. CONTACT UTILITIES AT 952-563-4568 FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
- CONTRACTOR SHALL CONTACT UTILITIES DIVISION (952-563-8777) REGARDING PERMIT FOR STORM SEWER CONSTRUCTION.
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- ALL PARKING STALLS TO BE PAINTED WITH WHITE STRIPING.
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- ABANDON WATER AND SEWER SERVICES AS DIRECTED BY BLOOMINGTON UTILITIES INSPECTOR FOR THE ALASKAN FUR BUILDING.
- RETURN ALASKAN FUR WATER METER TO BLOOMINGTON UTILITIES.

ENGINEERING DIVISION
Approved by: Jen Desrupe, PE
11/09/2017 12:57:21 PM



8/15/2017 8:39:06 AM
LEWIS WILSON
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NO	DATE	BY	CHKD	APPR	DESCRIPTION
4	08/16/17	PSG	XXX	XXX	DRIVEWAY ELEVATION CHANGES
3	07/14/17	PSG	XXX	XXX	STORMWATER TREATMENT REDESIGN
2	06/21/17	SNW	DSP	MCA	ADDITION OF PERMEABLE PAVEMENT BECAUSE OF IN-CONSTRUCTION CONDITIONS.
1	05/15/17	TAM	MCA	MCA	CITY COMMENT REVISIONS

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 C. AARON

Date: 5/15/2017 License #: 25721

DRAWN BY: P. GALZKI
DESIGNED BY: P. GALZKI
CHECKED BY: M. AARON
COMM. NO. 10277.00



**ENGINEERS
PLANNERS
DESIGNERS**

DOUBLETREE PARKING LOT RECONFIGURATION		SHEET C3.0
7800 NORMANDELE BLVD GRADING, DRAINAGE AND EROSION CONTROL PLAN (EAST) BLOOMINGTON, MINNESOTA		

GOPHER STATE ONE CALL (GSOC)

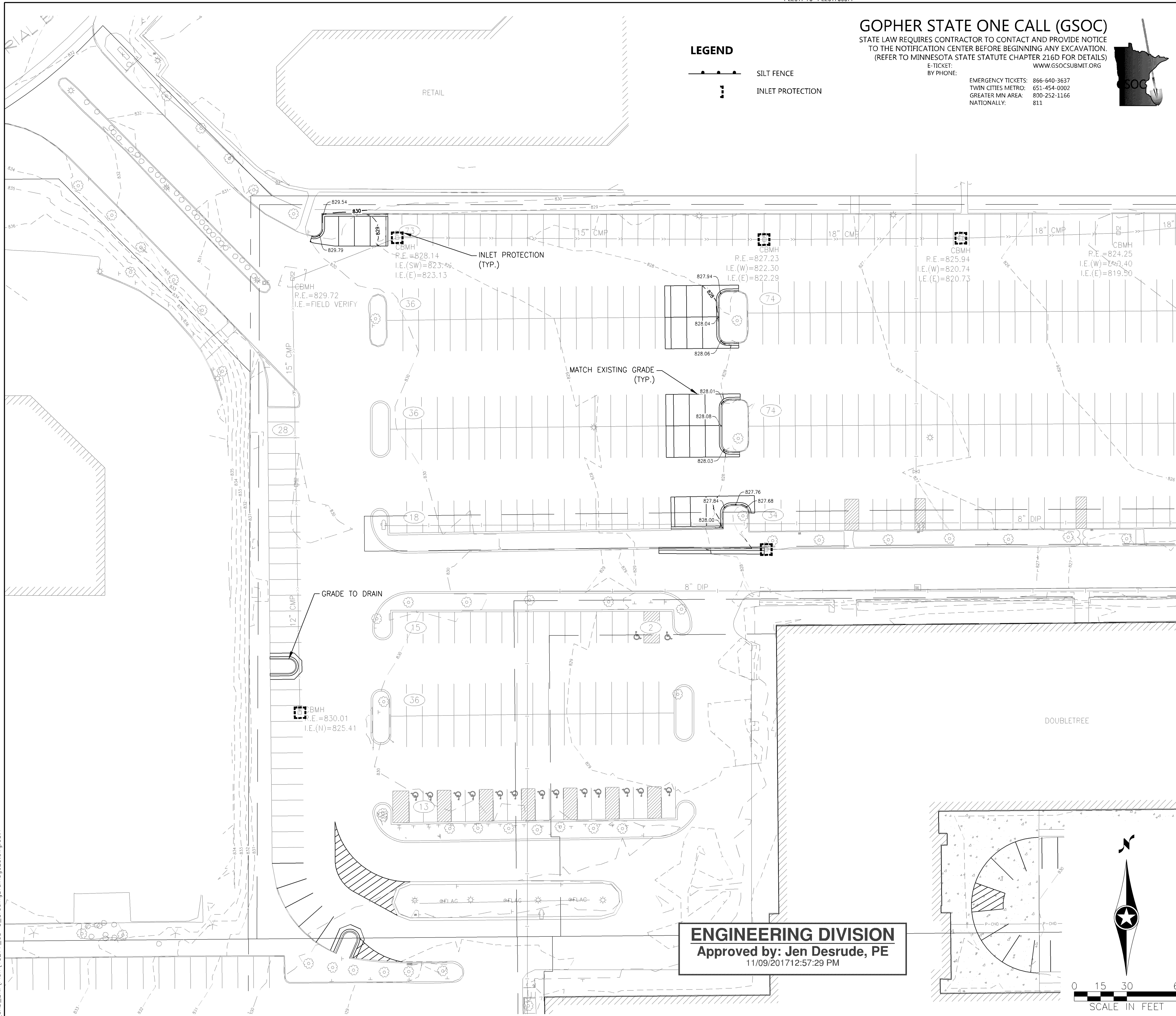
STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

E-TICKET: WWW.GSOCSUBMIT.ORG
BY PHONE: EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



LEGEND

- SILT FENCE
- INLET PROTECTION



GENERAL NOTES

- MINNESOTA STATE STATUTE REQUIRES NOTIFICATION PER "GOPHER STATE ONE CALL (GSOC)" PRIOR TO COMMENCING ANY GRADING, EXCAVATION OR UNDERGROUND WORK. THE ONE CALL SERVICE IS FREE OF CHARGE. SOME UNDERGROUND LINES ON PRIVATE PROPERTY ARE PRIVATELY OWNED AND MAY NOT BE MARKED BY A UTILITY. OTHER UNDERGROUND LINES BETWEEN A METER AND THE HOME OR BUSINESS, MAY BE CONSIDERED PRIVATELY OWNED. IN THESE CASES A CHARGE BY THE UTILITY MAY APPLY TO LOCATE AND MARK THOSE LINES.
- THE CONTRACTOR SHALL CONTACT GSOC AT LEAST 48 HOURS IN ADVANCE FOR ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS, BEST MANAGEMENT PRACTICES, STATE AND LOCAL REQUIREMENTS AND THE DETAILS SHOWN ON THE DETAIL SHEET(S) OF THE PROJECT PLANS.
- ALL CONSTRUCTION PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL ENTRANCES AND CONNECTIONS TO CITY STREETS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND NOTIFICATIONS AS REQUIRED.
- ALL STREET REPAIRS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY. ALL TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND THE CITY. THIS SHALL INCLUDE ALL SIGNAGE, BARRICADES, FLASHERS AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL BE OPEN TO TRAFFIC AT ALL TIMES.
- ADJUST ALL EXISTING STRUCTURES, BOTH PUBLIC AND PRIVATE TO THE PROPOSED GRADES WHERE DISTURBED AND COMPLY WITH ALL REQUIREMENTS OF THE UTILITY OWNERS. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
- EXISTING TOPOGRAPHY PROVIDED BY SRF CONSULTING GROUP.

GRADING, DRAINAGE & EROSION CONTROL NOTES

- SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS.
- ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 4 INCHES OF TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED.
- REFER TO THE GEOTECHNICAL EVALUATION REPORT, DATED JUNE 9, 2015 AS PREPARED BY BRAUN INTERTEC CORPORATION FOR AN EXISTING SUBSURFACE SITE CONDITION ANALYSIS AND CONSTRUCTION RECOMMENDATIONS.
- STREETS MUST BE CLEANED AND SWEEPED WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
- DUST MUST BE ADEQUATELY CONTROLLED.
- SEE SWPPP NOTES FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.
- SEE SITE PLAN FOR TIP-OUT GUTTER LOCATIONS.

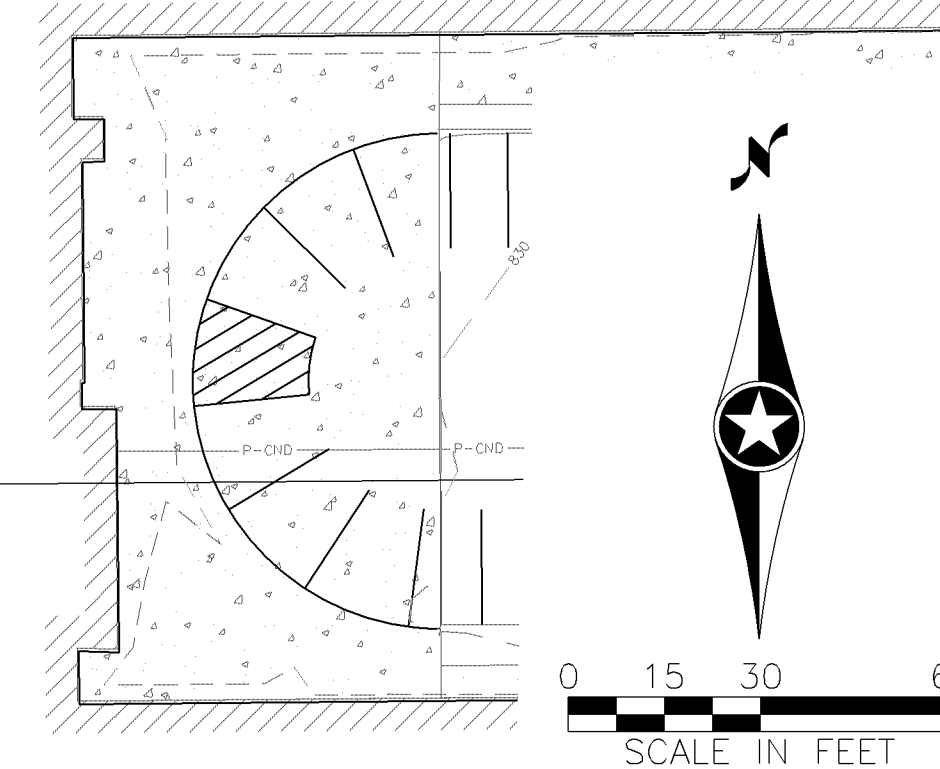
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- RETURN ALASKAN FUR WATER METER TO BLOOMINGTON UTILITIES.

ENGINEERING DIVISION
 Approved by: Jen Desrude, PE
 11/09/2017 12:57:29 PM



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 C. AARON
 Date: 5/15/2017 License #: 25721

DRAWN BY: P. GALZKI
 DESIGNED BY: P. GALZKI
 CHECKED BY: M. AARON
 COMM. NO. 10277.00



**ENGINEERS
 PLANNERS
 DESIGNERS**

DOUBLETREE PARKING LOT RECONFIGURATION
 7800 NORMANDEALE BLVD
 GRADING, DRAINAGE AND
 EROSION CONTROL PLAN (WEST)
 BLOOMINGTON, MINNESOTA

SHEET
 C3.1

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NO	DATE	BY	CKD	APPR

EROSION CONTROL SUPERVISOR, INSPECTIONS AND MAINTENANCE NOTES

1. IN ACCORDANCE WITH SPEC. 2573.3 A1, THE CONTRACTOR SHALL PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR IN GOOD STANDING WHO IS KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs. PROVIDE PROOF OF CERTIFICATION (UNIVERSITY OF MINNESOTA - CONSTRUCTION SITE MANAGEMENT) AT THE PRECONSTRUCTION MEETING. WORK SHALL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED. THE EROSION CONTROL SUPERVISOR IS INCIDENTAL.

2. THE EROSION CONTROL SUPERVISOR SHALL WORK WITH THE PROJECT ENGINEER TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA.

3. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR COMPLYING WITH ALL THE INSPECTION AND MAINTENANCE REQUIREMENTS STATED IN THE NPDES PERMIT PART IV. E. INSPECTIONS OF THE ENTIRE CONSTRUCTION SITE SHALL OCCUR A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS (IN NO CASE SHALL THE TIME BETWEEN INSPECTIONS EXCEED 7 DAYS). RAINFALL AMOUNTS SHALL BE OBTAINED USING A PROPERLY MAINTAINED RAIN GAUGE ONSITE OR BY A WEATHER STATION THAT IS WITHIN ONE MILE. THE EROSION CONTROL SUPERVISOR SHALL THOROUGHLY INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs TO ENSURE INTEGRITY AND EFFECTIVENESS OF EACH BMP.

4. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION SHALL BE RECORDED IN WRITING WITHIN 24 HOURS AND THESE RECORDS SHALL BE RETAINED WITH THE SWPPP. INSPECTION REPORTS SHALL BE SUBMITTED TO THE PROJECT ENGINEER AND SWPPP DESIGNER IN A FORMAT APPROVED BY THE ENGINEER. INSPECTION RECORDS SHALL INCLUDE:

- A. DATE AND TIME OF INSPECTIONS;
B. NAME OF PERSONS CONDUCTING INSPECTIONS;
C. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
D. CORRECTIVE ACTIONS TAKEN INCLUDING DATES, TIMES, AND THE PARTY COMPLETING MAINTENANCE ACTIVITIES;
E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS;
F. LOCATION, DESCRIPTION AND PHOTO OF ANY DISCHARGES OFF THE PROJECT SITE.
G. DOCUMENTS AND CHANGES MADE TO THE SWPPP.

5. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS (INSPECTIONS MAY BE REDUCED UNDER CERTAIN CONDITIONS AS COVER IS ESTABLISHED AND CONDITIONS CHANGE AS DESCRIBED IN PART IV. E OF THE NPDES PERMIT):

- A. SILT FENCE SHALL BE REPAIRED, REPLACED OR SUPPLEMENTED WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE SILT FENCE. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF DISCOVERY.
B. INLET PROTECTION DEVICES SHOULD BE REPAIRED WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
C. TEMPORARY SEDIMENT BASINS, IF REQUIRED, SHALL HAVE THE SEDIMENT REMOVED ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME WITHIN 72 HOURS OF DISCOVERY.
D. REMOVE ANY SEDIMENT DEPOSITED IN SURFACE WATERS. SEDIMENT SHALL BE REMOVED AND ANY AREA DISTURBED BY THE REMOVAL RESTABILIZED WITHIN 7 DAYS OF DISCOVERY. A SITE MANAGEMENT PLAN IS REQUIRED FOR WORK IN ANY SURFACE WATER AND APPROPRIATE AUTHORITIES SHALL BE CONTACTED PRIOR TO COMMENCING WORK.
E. TRACKED SEDIMENT SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OF TRACKING ONTO PAVED SURFACES.

F. ALL OTHER NONFUNCTIONAL BMPs SHALL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITHIN 24 HOURS OF DISCOVERY.

G. REINSTALL AS QUICKLY AS POSSIBLE ANY BMP REMOVED TO ACCOMMODATE SHORT TERM ACTIVITIES.

H. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL BMPs UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION HAS BEEN SUBMITTED TO THE MPCA IN ACCORDANCE WITH PART II.C OF THE CONSTRUCTION GENERAL PERMIT. SEDIMENT REMOVAL AND MAINTENANCE OF BMPs IS INCIDENTAL.

6. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS A TEMPORARY SEDIMENT BASIN OR SEDIMENT TRAP TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.

STABILIZATION AND SEDIMENT CONTROL NOTES

1. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ONSITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES AND SHALL BE MAINTAINED UNTIL THE POTENTIAL FOR EROSION HAS BEEN ELIMINATED. IF SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE), ADDITIONAL UPGRADIENT OR REDUNDANT BMPs SHALL BE PLACED.

2. SEDIMENT CONTROL DEVICES SHALL BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. SEDIMENT CONTROL DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

A. PERIMETER CONTROL SHALL BE LOCATED ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. THE BMP SHALL BE J-HOOKED AT A MAXIMUM OF 100 FOOT INTERVALS AND EACH SECTION SHALL CONTAIN NO MORE THAN 1/4 ACRE OF DRAINAGE AREA.

B. SEDIMENT DAMAGE FROM STOCKPILES SHALL BE MINIMIZED BY PLACING A ROW OF SUPER DUTY SILT FENCE A MINIMUM 5 FEET FROM THE TOE. IF THERE IS NOT ADEQUATE PROJECT AREA TO PLACE THE SILT FENCE MORE THAN 5 FEET FROM THE TOE OF THE SLOPE, THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE TO THE PROJECT ENGINEER FOR APPROVAL.

C. DITCH CHECKS (IF REQUIRED) SHALL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.

1. TEMPORARY DITCH CHECKS (IF REQUIRED) SHALL CONSIST OF USING ROCK DITCH CHECKS, BIOLOGS AND ROCK WEEPERS IN FRONT OF CULVERT INLETS. IN LIEU OF REMOVING TEMPORARY DITCH CHECKS, THE ROCK MAY BE PUSHED INTO THE GROUND.

2. FILTER LOGS (IF REQUIRED) SHALL BE PLACED DURING PERMANENT TURF ESTABLISHMENT AT THE INTERVALS IDENTIFIED IN THE PLAN.

D. FLOTATION SILT CURTAIN MAY BE USED AS PERIMETER CONTROL BUT ONLY FOR WORK ON THE SHORELINE OR BELOW THE WATERLINE. IMMEDIATELY AFTER THE CONSTRUCTION IN THE AREA IS COMPLETE, AN UPLAND BMP SHALL BE PLACED IF EXPOSED SOILS CONTINUE TO DRAIN TO THE SURFACE WATER.

E. TEMPORARY SEDIMENT BASINS ARE REQUIRED WHERE TEN OR MORE ACRES DRAIN TO A COMMON LOCATION (FIVE IF DRAINING TO A SPECIAL OR IMPAIRED WATER).

1. BASIN VOLUME SHALL BE A MINIMUM OF 1,800 CUBIC FEET PER ACRE OF DRAINAGE AREA TO THE BASIN (3,600 CUBIC FEET PER ACRE IF NO CALCULATIONS ARE PERFORMED).

2. OUTLET SHALL ALLOW COMPLETE DRAWDOWN FOR MAINTENANCE AND A STABILIZED OVERFLOW. THE OUTLET SHALL WITHDRAW WATER FROM THE SURFACE EXCEPT DURING FROZEN CONDITIONS.

3. IF A TEMPORARY BASIN OF THE REQUIRED SIZE IS INFEASIBLE THE REASONS SHALL BE DOCUMENTED IN THE SWPPP AND ALTERNATE BMPs SHALL BE PLACED.

3.PRESERVE A NATURAL BUFFER OF AT LEAST 50 FEET (100 FEET IF WITHIN 1 MILE OF AND DRAINS TO A SPECIAL OR IMPAIRED WATER) BETWEEN DISTURBED AREAS AND FLOWS TO A SURFACE WATER (NOT REQUIRED AT DITCHES OR STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS OR SEDIMENT BASINS). IF A BUFFER IS INFEASIBLE, PROVIDE AS LARGE A BUFFER AS POSSIBLE AND REDUNDANT SEDIMENT CONTROLS.

4. STORM SEWER INLETS SHALL BE PROTECTED AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS (THIS BMP SHALL BE ACCEPTED ONLY FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS). INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES SHALL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE KEPT IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES IT SHALL BE REPLACED WITH A SUITABLE ALTERNATIVE AT NO COST TO THE OWNER.

5. PAVEMENT SURFACES SHALL BE SWEEPED WITHIN 24 HOURS OF DISCOVERY OF SEDIMENT OR TRACKING ONTO PAVEMENT THAT DRAINS TO CURB, INLETS, DITCHES OR PONDS. PAVEMENT SHALL BE LIGHTLY WETTED PRIOR TO SWEEPING. THIS WORK IS INCIDENTAL.

6. OUTLETS INTO SURFACE WATERS SHALL BE STABILIZED WITH ENERGY DISSIPATION WITHIN 24 HOURS OF BEING CONSTRUCTED.

7. DITCHES AND EXPOSED SOILS SHALL BE KEPT IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES AND BLANKETS.

8. INITIATE STABILIZATION OF ALL EXPOSED SOIL AND STOCKPILE AREAS IMMEDIATELY AFTER CONSTRUCTION ACTIVITY ON THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN NO MORE THAN 7 DAYS. ALL EXPOSED SOIL WITHIN 200 LINEAL FEET OF AND DRAINING TO A PUBLIC WATER WITH "WORK IN WATER RESTRICTIONS" AND DURING SPECIFIED FISH SPAWNING TIME FRAMES, SHALL BE STABILIZED WITHIN 24 HOURS. IN MANY INSTANCES, THIS SHALL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING ROUGH GRADING. RAPID STABILIZATION METHOD 3 SHALL BE USED TO PROVIDE TEMPORARY COVER IN THESE AREAS AS APPROPRIATE. SUBSTITUTE SEED MIXTURE 21-112 OR 21-111 FOR THE SPECIFIED SEED MIXTURE AS APPROPRIATE FOR THE SEASON. SEE PERMIT SECTION IV.B. FOR EXCEPTIONS.

9. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT DRAINS WATER FROM THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE CONSTRUCTION SITE, SHALL BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE OR POINT OF DISCHARGE TO ANY SURFACE WATER. STABILIZATION SHALL OCCUR WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER, EXISTING GUTTER, STORM SEWER INLET, DRAINAGE DITCH, OR OTHER STORMWATER CONVEYANCE SYSTEM ACCORDING TO SPEC 1717.2. RAPID STABILIZATION METHOD 4 SHALL BE USED TO STABILIZE THESE AREAS (SUBSTITUTE SEED MIXTURE 21-112 OR 21-111 FOR THE SPECIFIED SEED MIXTURE AS APPROPRIATE FOR THE SEASON). THE REMAINDER OF THE DITCH SHALL BE STABILIZED WITHIN 14 DAYS (7 DAYS IF IT IS WITHIN 1 MILE OF AND DRAINS TO A SPECIAL OR IMPAIRED WATER)OF CONNECTING TO THE SURFACE WATER. PERMANENT EROSION CONTROL BLANKET OR RAPID STABILIZATION METHOD 4 (SUBSTITUTE SEED MIXTURE 21-112 OR 21-111 FOR THE SPECIFIED SEED MIXTURE AS APPROPRIATE FOR THE SEASON) SHALL BE USED TO STABILIZE THESE AREAS. DISC ANCHORED MULCH AND HYDRAULIC SOIL STABILIZERS ARE NOT ALLOWED TO BE USED FOR DITCH STABILIZATION.

10. ALL EXPOSED SOIL AREAS SHALL BE STABILIZED PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED SHALL BE SNOW MULCHED, SEEDED, OR BLANKETED WITHIN THE TIME FRAMES LISTED IN THE MPCAS GENERAL NPDES CONSTRUCTION STORMWATER PERMIT.

11. ALL TOPSOIL BERMS SHALL BE STABILIZED AS FOLLOWS:A.BETWEEN APRIL 1 - AUGUST 31, SEED WITH SEED MIXTURE 21-111B.BETWEEN SEPTEMBER 1 AND MARCH 31, SEED WITH SEED MIXTURE 21-112 AND TOP WITH RAPID STABILIZATION 2.

12. TILLING FOR BEDS OR TREE HOLES SHALL BE PLANTED AND MULCHED WITH WOODCHIP WITHIN 7 DAYS OR STRAW MULCHED UNTIL PLANTING OPERATIONS CAN BE COMPLETED. FILTER LOGS SHALL BE PLACED, AS NEEDED, TO TRAP SEDIMENT ON THE LOWER EDGE OF BEDS OR TREE HOLES. FILTER LOGS SHALL BE LEFT TO PHOTO DEGRADE.

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PL2017-70

Table with 6 columns: NO, DATE, BY, CKD, APPR, CITY COMMENT REVISIONS. Row 1: 1, 05/15/17, TAM, MCA, MCA, CITY COMMENT REVISIONS.

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 C. AARON
Date: 5/15/2017 License #: 25721

DRAWN BY: P. GALZKI
DESIGNED BY: P. GALZKI
CHECKED BY: M. AARON
COMM. NO. 10277.00



DOUBLETREE PARKING LOT RECONFIGURATION
7800 NORMANDALE BLVD
SWPPP NOTES 2 OF 2
BLOOMINGTON, MINNESOTA

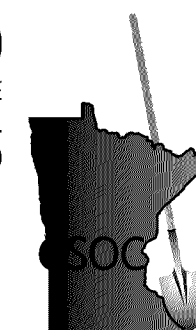
SHEET C3.3

GOPHER STATE ONE CALL (GSOC)

STATE LAW REQUIRES CONTRACTOR TO CONTACT AND PROVIDE NOTICE TO THE NOTIFICATION CENTER BEFORE BEGINNING ANY EXCAVATION. (REFER TO MINNESOTA STATE STATUTE CHAPTER 216D FOR DETAILS)

E-TICKET: WWW.GSOCSUBMIT.ORG
BY PHONE:

EMERGENCY TICKETS: 866-640-3637
TWIN CITIES METRO: 651-454-0002
GREATER MN AREA: 800-252-1166
NATIONALLY: 811



GENERAL NOTES

- MINNESOTA STATE STATUTE REQUIRES NOTIFICATION PER "GOPHER STATE ONE CALL (GSOC)" PRIOR TO COMMENCING ANY GRADING, EXCAVATION OR UNDERGROUND WORK. THE ONE CALL SERVICE IS FREE OF CHARGE. SOME UNDERGROUND LINES ON PRIVATE PROPERTY ARE PRIVATELY OWNED AND MAY NOT BE MARKED BY A UTILITY. OTHER UNDERGROUND LINES, BETWEEN A METER AND THE HOME OR BUSINESS, MAY BE CONSIDERED PRIVATELY-OWNED. IN THESE CASES A CHARGE BY THE UTILITY MAY APPLY TO LOCATE AND MARK THOSE LINES.
- THE CONTRACTOR SHALL CONTACT GSOC AT LEAST 48 HOURS IN ADVANCE FOR ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS, BEST MANAGEMENT PRACTICES, STATE AND LOCAL REQUIREMENTS AND THE DETAILS SHOWN ON THE DETAIL SHEET(S) OF THE PROJECT PLANS.
- ALL CONSTRUCTION PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL ENTRANCES AND CONNECTIONS TO CITY STREETS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND NOTIFICATIONS AS REQUIRED.
- ALL STREET REPAIRS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY. ALL TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND THE CITY. THIS SHALL INCLUDE ALL SIGNAGE, BARRICADES, FLASHERS AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL BE OPEN TO TRAFFIC AT ALL TIMES.
- ADJUST ALL EXISTING STRUCTURES, BOTH PUBLIC AND PRIVATE TO THE PROPOSED GRADES WHERE DISTURBED AND COMPLY WITH ALL REQUIREMENTS OF THE UTILITY OWNERS. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
- EXISTING TOPOGRAPHY PROVIDED BY SRF CONSULTING GROUP.

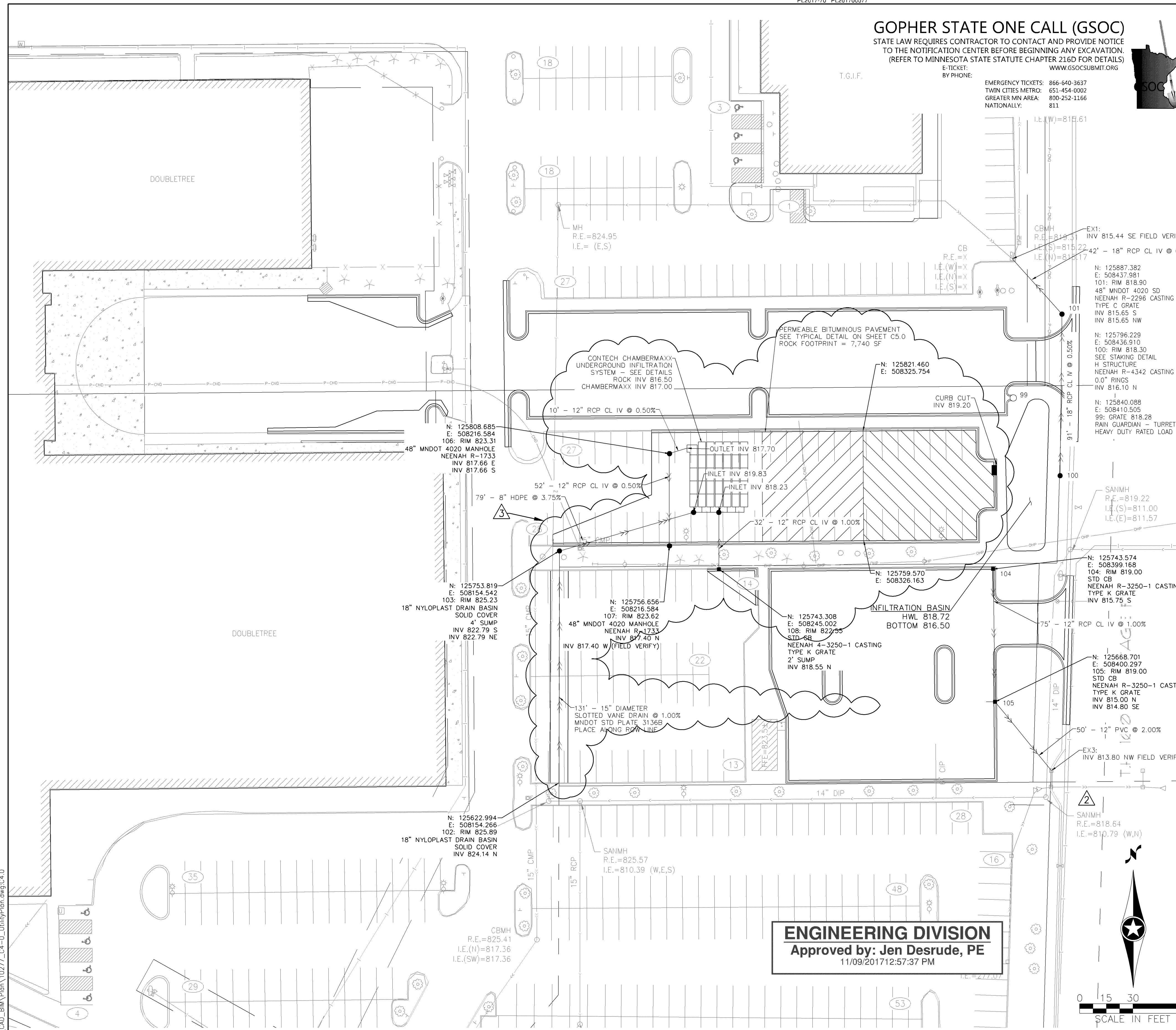
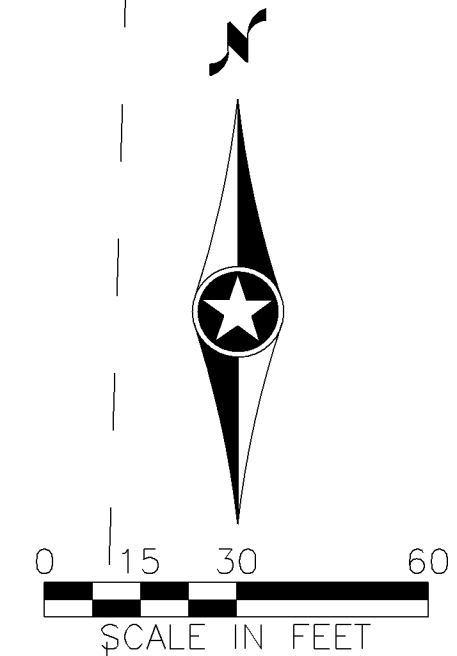
UTILITY NOTES

- ALL SANITARY SEWER, STORM SEWER AND WATERMAIN UTILITIES SHALL BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF THE SPECIFICATIONS/THE MINNESOTA PLUMBING CODE, THE LOCAL GOVERNING UNIT, AND THE STANDARD UTILITIES SPECIFICATION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), 2013 EDITION.
- ALL UTILITY PIPE BEDDING SHALL BE COMPACTED SAND OR FINE GRANULAR MATERIAL. ALL COMPACTION SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CEAM SPECIFICATION AND THE GEOTECHNICAL REPORT.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE PERFORMED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CITY DEPARTMENT OF ENGINEERING AND BUILDING INSPECTIONS DEPARTMENT AND THE CONSTRUCTION ENGINEER MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, OR WORK IMPACTING PUBLIC UTILITIES.
- ALL STORM SEWER, SANITARY SEWER AND WATER SERVICES SHALL TERMINATE 5' FROM THE BUILDING FACE UNLESS OTHERWISE NOTED.
- A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
- PROPOSED PIPE MATERIALS:
STORM SEWER: DUAL WALL HDPE
RCP: CL IV
12" TO 24" DIAMETER
12" TO 18" DIAMETER
- ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT (SEE MINNESOTA RULES, PART 4715.0700). APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, AND OTHER STRUCTURES.
- HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINS MUST COMPLY WITH MINNESOTA RULES, PART 4715.0540:
8.1. PIPES 4-INCH TO 10-INCH IN SIZE MUST COMPLY WITH AASHTO M252.
8.2. PIPES 12-INCH TO 60-INCH IN SIZE MUST COMPLY WITH ASTM F2306.
8.3. ALL FITTINGS MUST COMPLY WITH ASTM D3212.
8.4. WATER-TIGHT JOINTS MUST BE USED AT ALL CONNECTIONS INCLUDING STRUCTURES.

CITY OF BLOOMINGTON NOTES

- CONTRACTOR SHALL OBTAIN A PUBLIC WORKS PERMIT APPLICATION FOR OBSTRUCTIONS AND CONCRETE WORK WITHIN RIGHT-OF-WAY. PERMIT IS REQUIRED PRIOR TO REMOVALS OR INSTALLATION. CONTACT BRIAN HANSEN AT 952-563-4543 OR BHANSEN@BLOOMINGTONMN.GOV FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
- PUBLIC WORKS PERMIT APPLICATION FOR UNDERGROUND WORK WITHIN THE RIGHT-OF-WAY IS REQUIRED PRIOR TO REMOVAL OR INSTALLATION OF SANITARY, WATER OR STORM WORK WITHIN THE PUBLIC RIGHT-OF-WAY. CONTACT UTILITIES AT 952-563-4568 FOR PERMIT APPLICATION AND FOR FEE INFORMATION.
- CONTRACTOR SHALL CONTACT UTILITIES DIVISION (952-563-8777) REGARDING PERMIT FOR STORM SEWER CONSTRUCTION.
- RESTORE CITY STREET BY COMPLYING WITH THE CITY STREET IMPROVEMENT POLICY; CONTACT UTILITIES (952-563-4568) FOR THE REQUIREMENTS AND SHOW ON THIS PLAN.
- ALL PARKING STALLS TO BE PAINTED WITH WHITE STRIPING.
- ALL CONSTRUCTION AND POST-CONSTRUCTION PARKING SHALL BE ON-SITE - NO ON-STREET PARKING/LOADING/UNLOADING ALLOWED.
- ALL PUBLIC SIDEWALKS SHALL NOT BE OBSTRUCTED.
- STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENTS.
- CONTRACTOR SHALL SUBMIT TO CITY, A TRAFFIC CONTROL PLAN UTILIZING LAYOUT 9 OF THE TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL, LATEST VERSION, PRIOR TO ANY WORK IN NORMANDELE BLVD./TH100 FRONTAGE ROAD.
- LOCATE AND PROTECT EXISTING UNDERGROUND UTILITIES IN ALL CONSTRUCTION AND DEMOLITION AREAS.
- ABANDON WATER AND SEWER SERVICES AS DIRECTED BY BLOOMINGTON UTILITIES INSPECTOR FOR THE ALASKAN FUR BUILDING.
- RETURN ALASKAN FUR WATER METER TO BLOOMINGTON UTILITIES.

ENGINEERING DIVISION
Approved by: **Jen Desrude, PE**
11/09/2017 12:57:37 PM



8/15/2017 12:44:07 PM
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NO	DATE	BY	CKD	APPR	
3	07/14/17	PSG	XXX	XXX	STORMWATER TREATMENT REDESIGN
2	06/21/17	SNW	DSP	MCA	ADDITION OF PERMEABLE PAVEMENT BECAUSE OF IN-CONSTRUCTION CONDITIONS.
1	05/15/17	TAM	MCA	MCA	CITY COMMENT REVISIONS

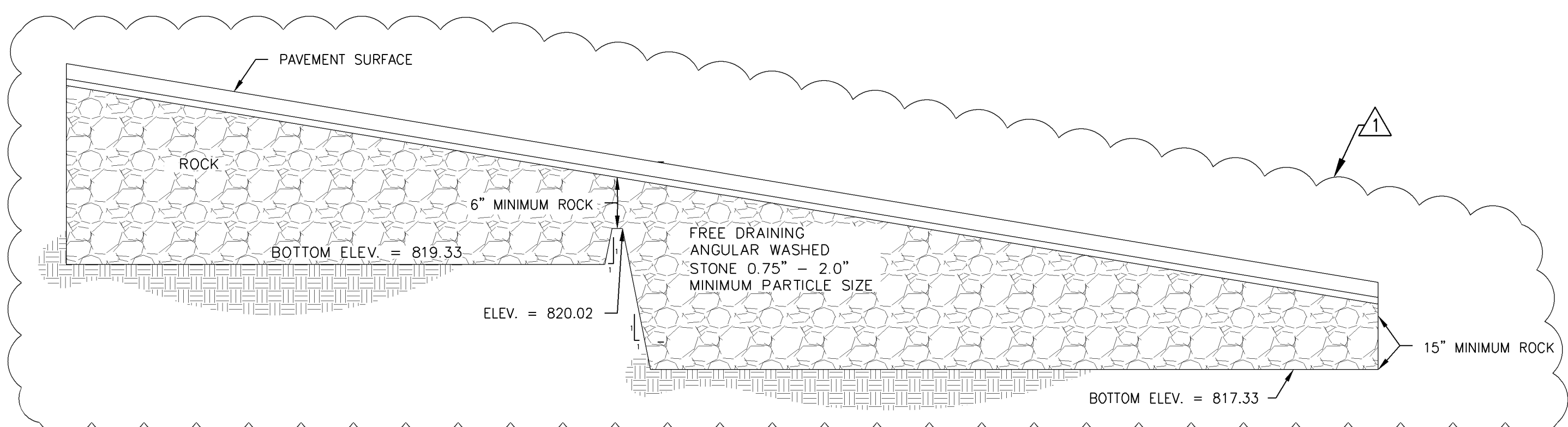
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Print Name: **SAMUEL N. WESTLUND**
Date: **5/15/2017** License #: **53569**

DRAWN BY
S. WESTLUND
DESIGNED BY
S. WESTLUND
CHECKED BY
M. AARON
COMM. NO. 10277.00

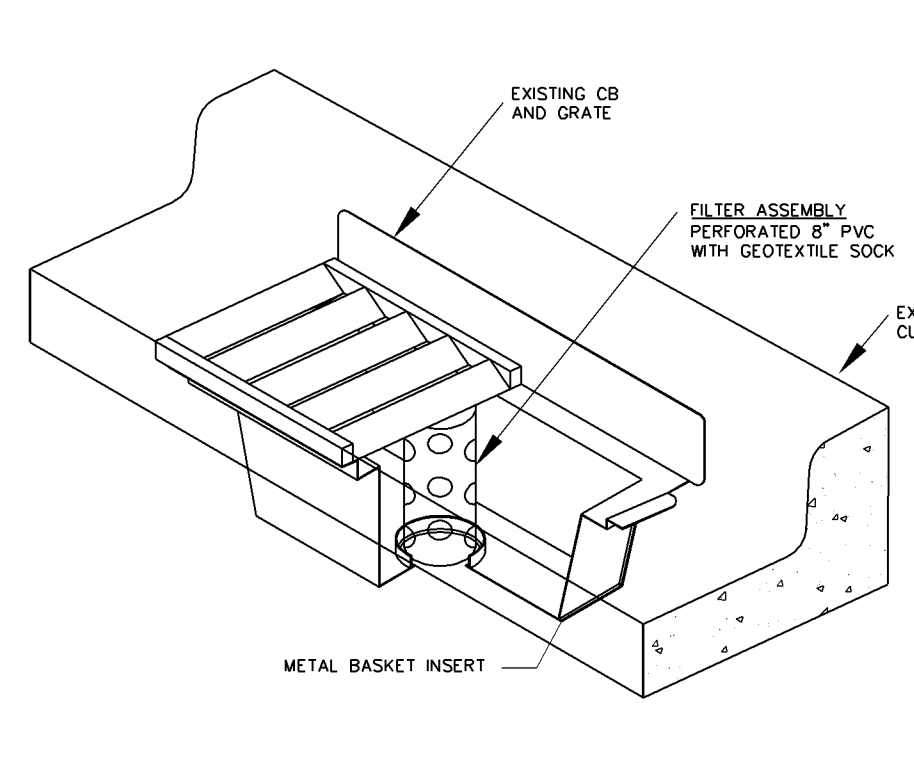


**ENGINEERS
PLANNERS
DESIGNERS**

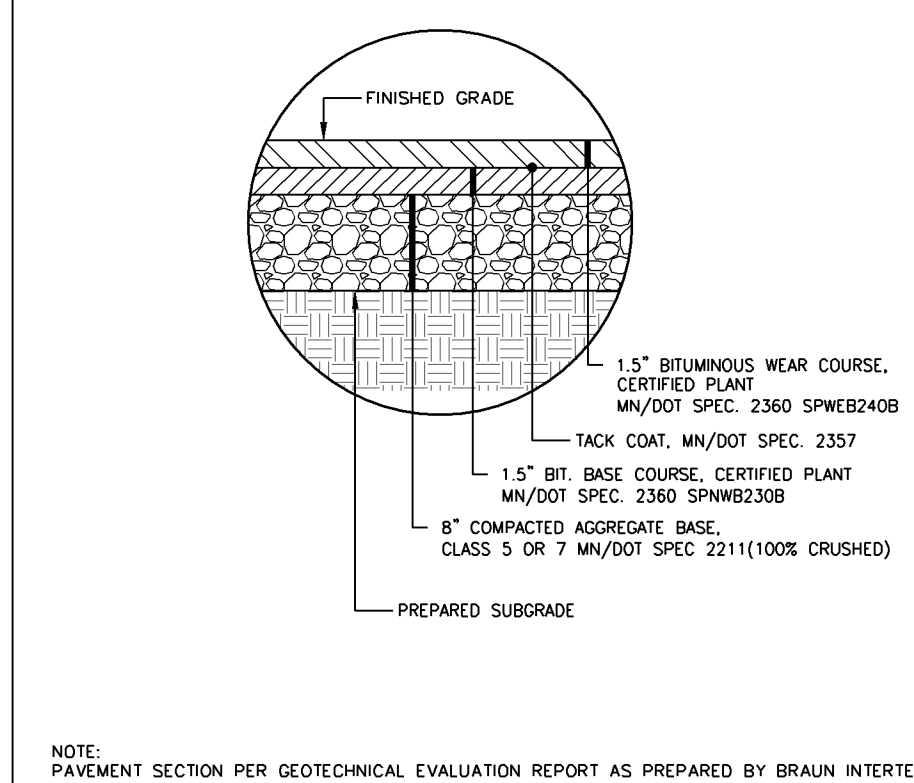
DOUBLETREE PARKING LOT RECONFIGURATION		SHEET C4.0
7800 NORMANDELE BLVD		
UTILITY PLAN BLOOMINGTON, MINNESOTA		



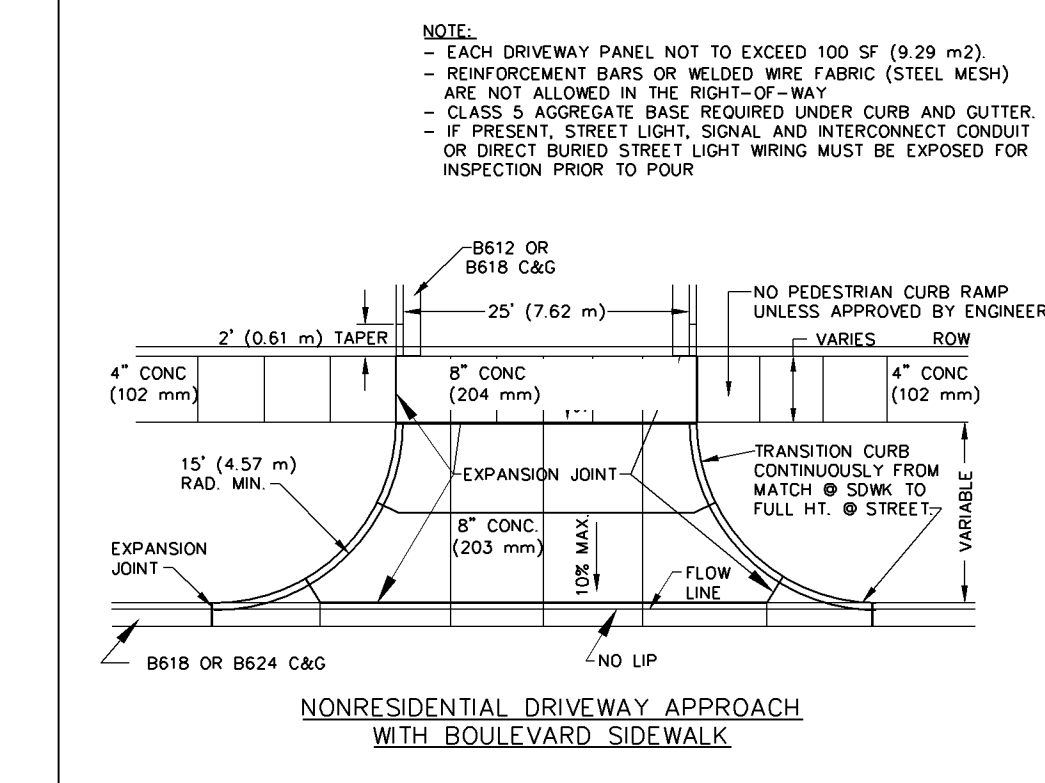
UNDERGROUND PERMEABLE PAVEMENT



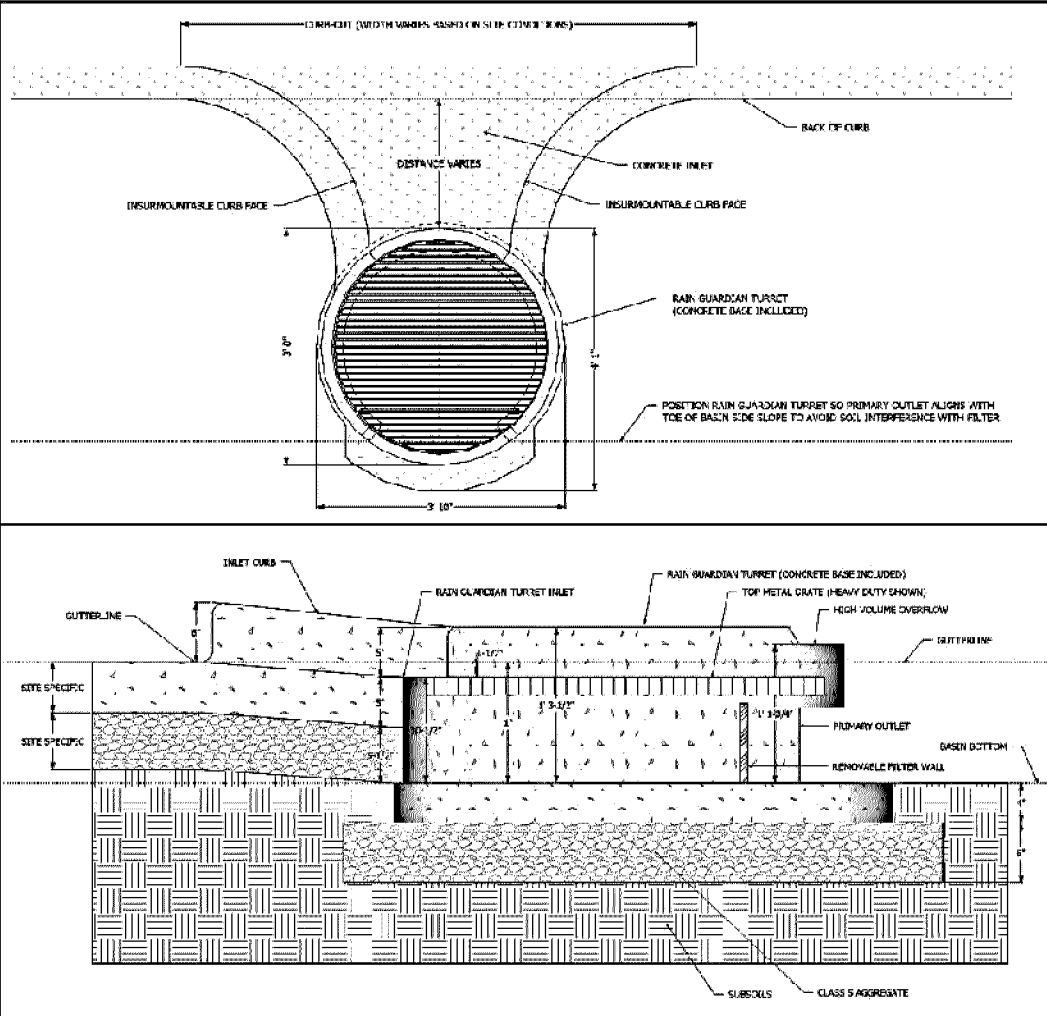
INLET PROTECTION, METAL BASKET TYPE



BITUMINOUS PAVEMENT SECTION



CONCRETE DRIVEWAY DETAIL



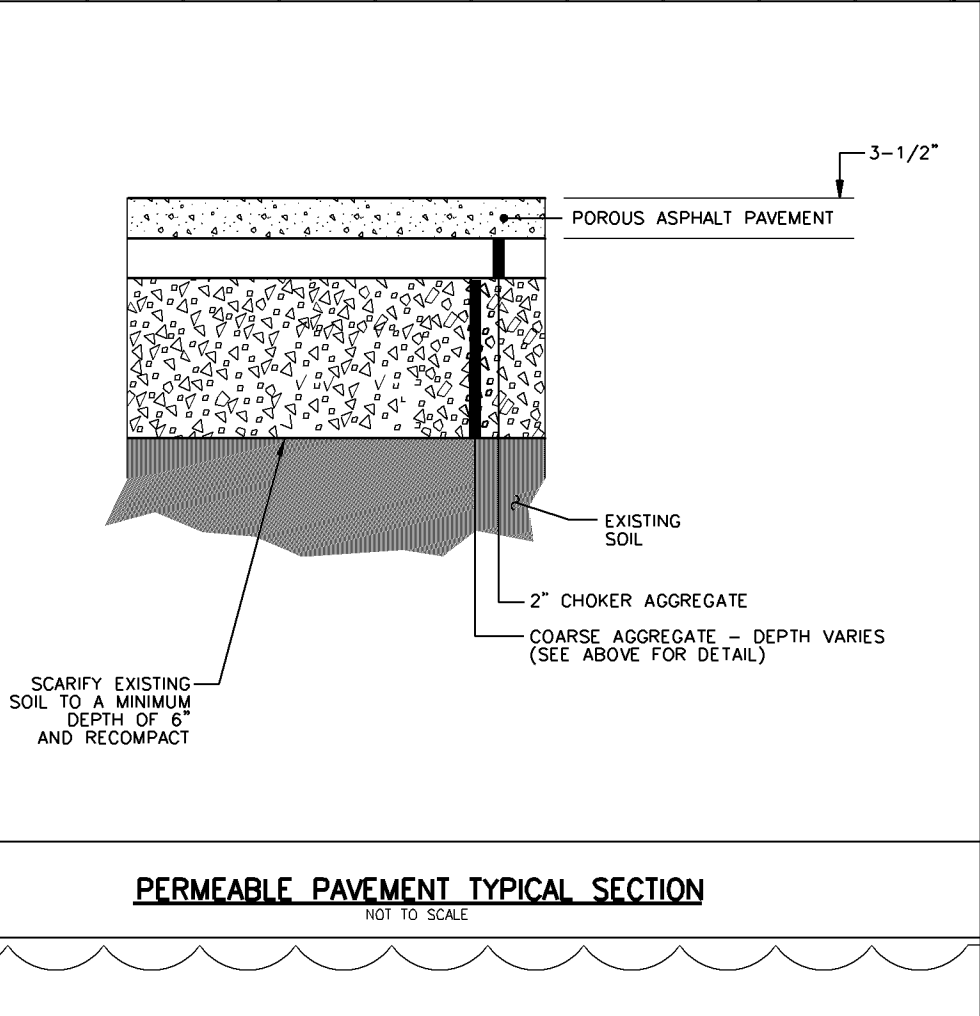
RAIN GUARDIAN TURRET DETAIL

PLAN VIEW NOTES

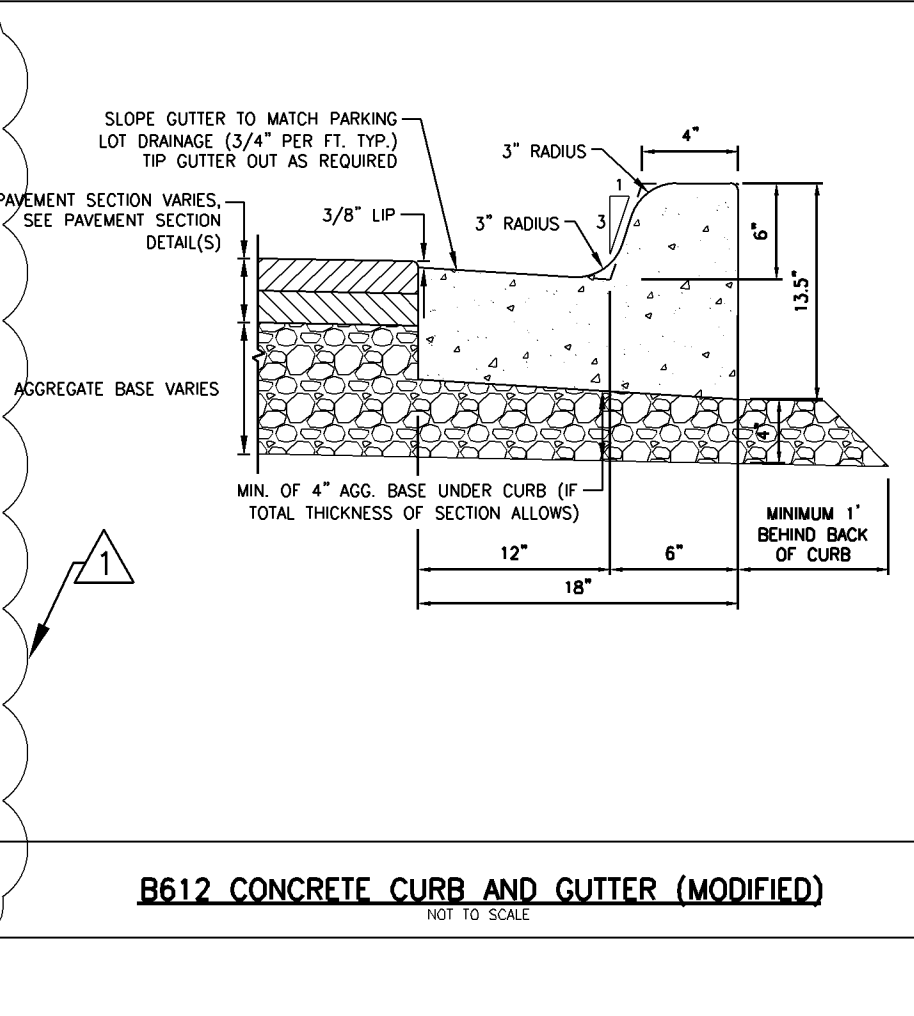
- INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN TURRET MAY VARY WITH SITE CONDITIONS.
- CONCRETE RAIN GUARDIAN TURRET SHALL BE THE SAME AS THE RAIN GUARDIAN TURRET TO BE USED AS A RAIN GUARDIAN TURRET.

CROSS SECTION VIEW NOTES

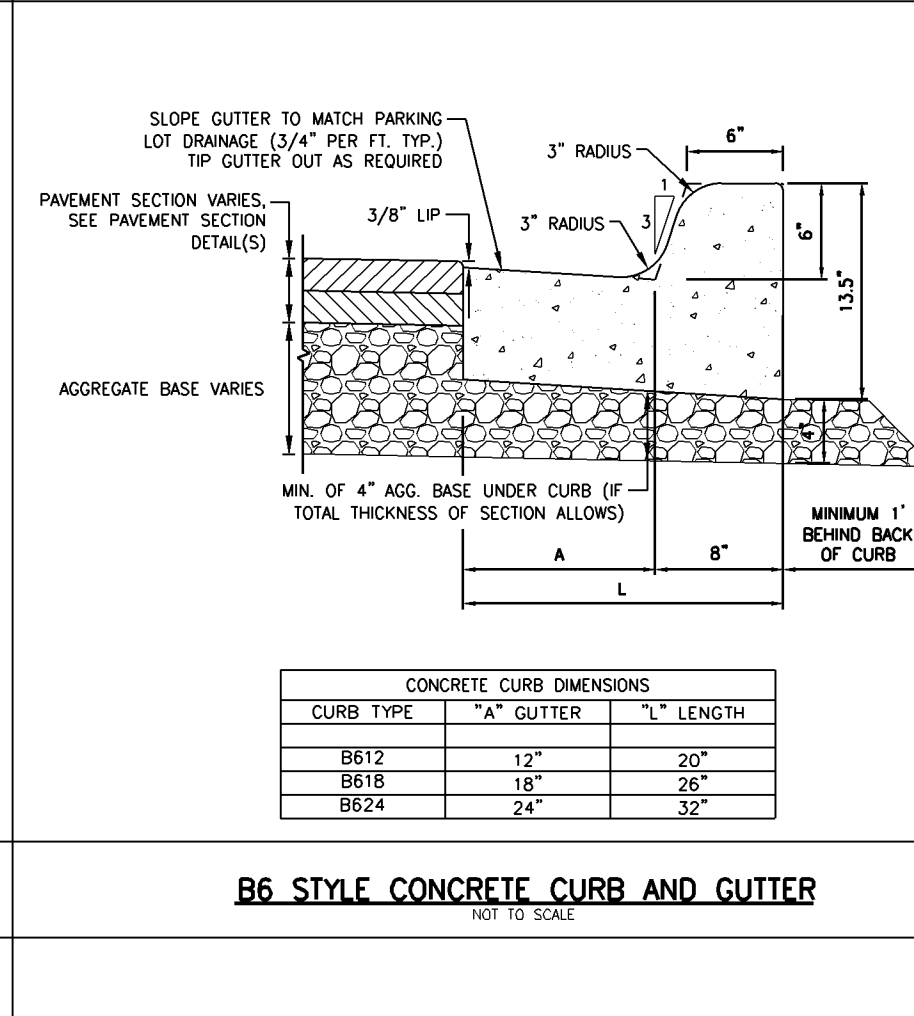
- THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR) IS PRECISELY 4" BELOW THE FINISH ELEVATION.



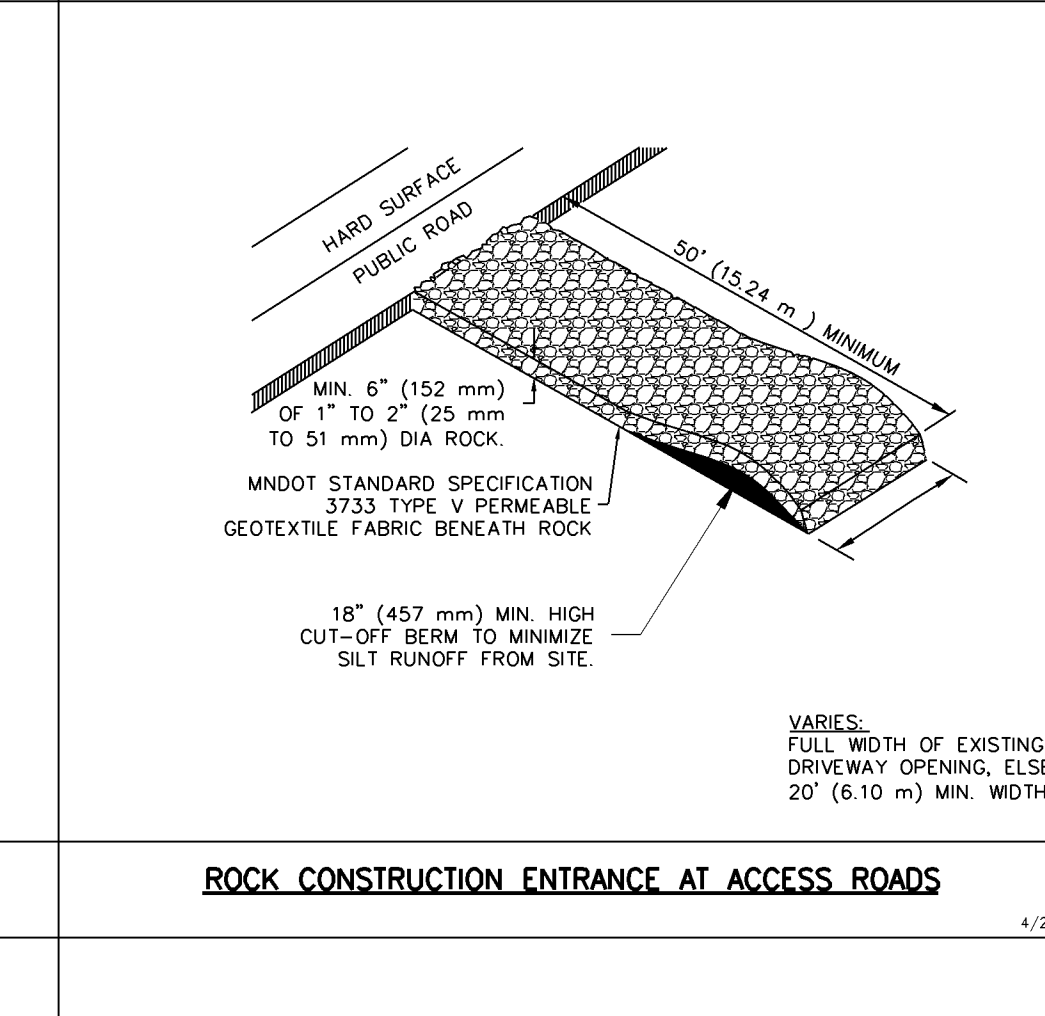
PERMEABLE PAVEMENT TYPICAL SECTION



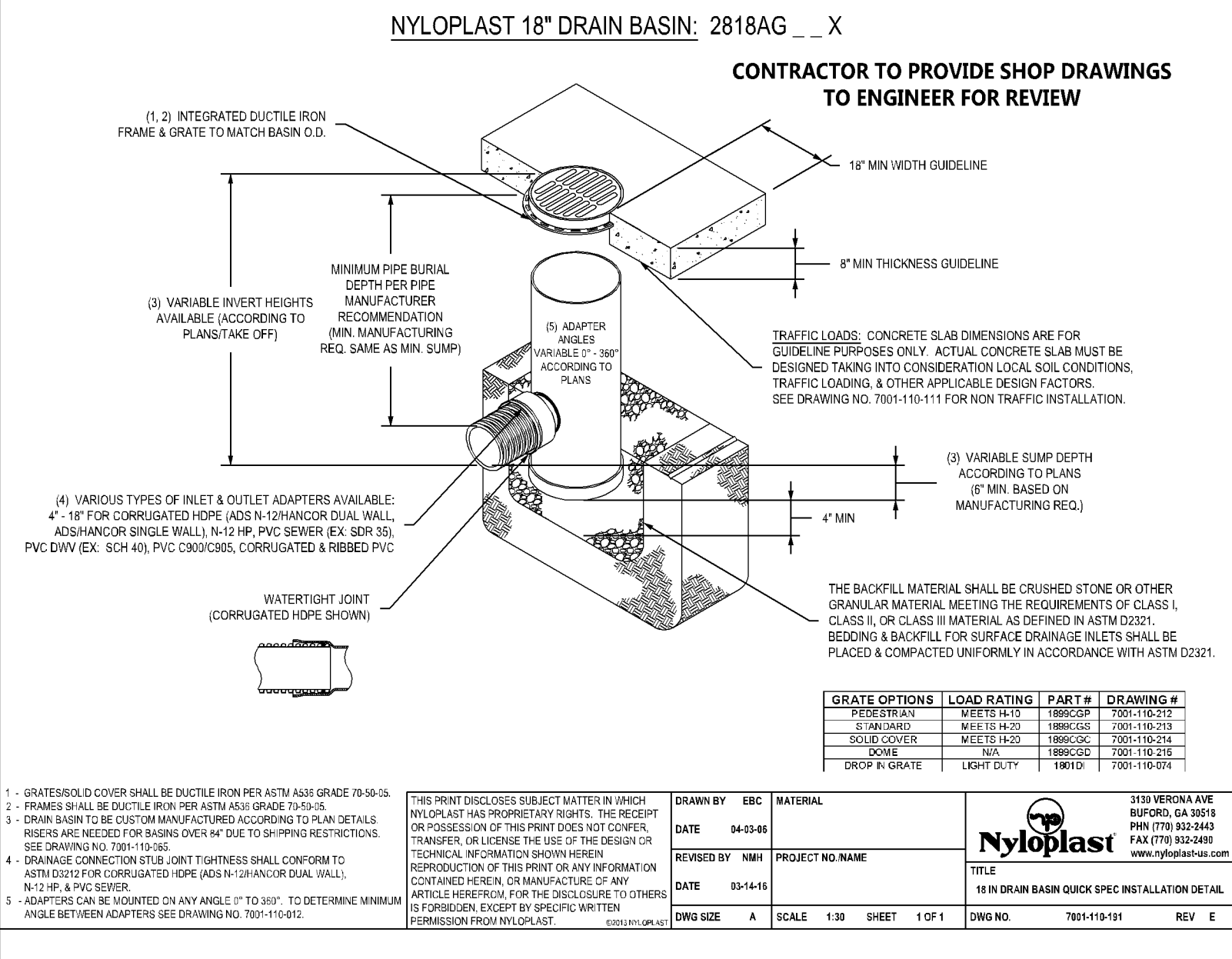
B612 CONCRETE CURB AND GUTTER (MODIFIED)



B6 STYLE CONCRETE CURB AND GUTTER

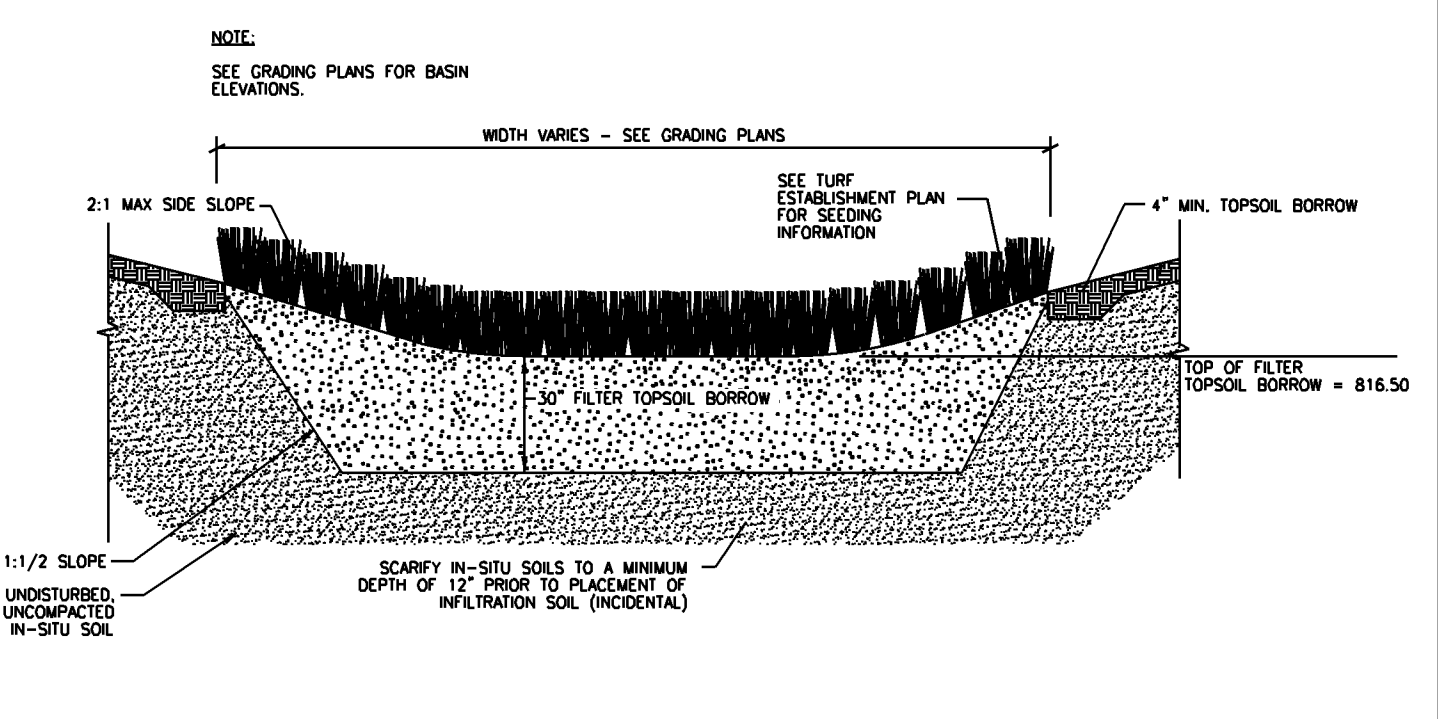


ROCK CONSTRUCTION ENTRANCE AT ACCESS ROADS

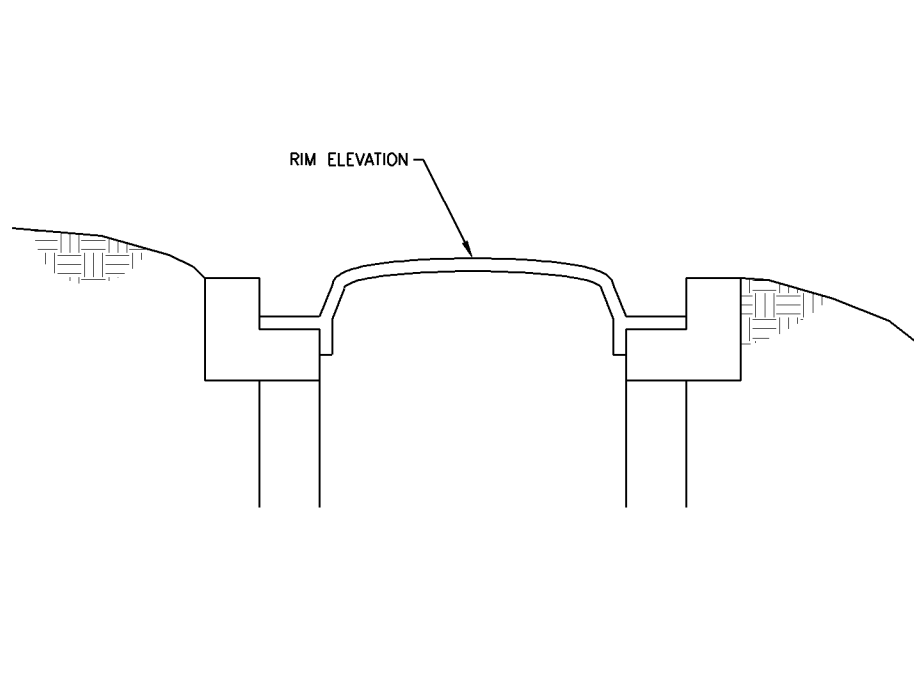


NYLOPLAST 18" DRAIN BASIN: 2818AG - X

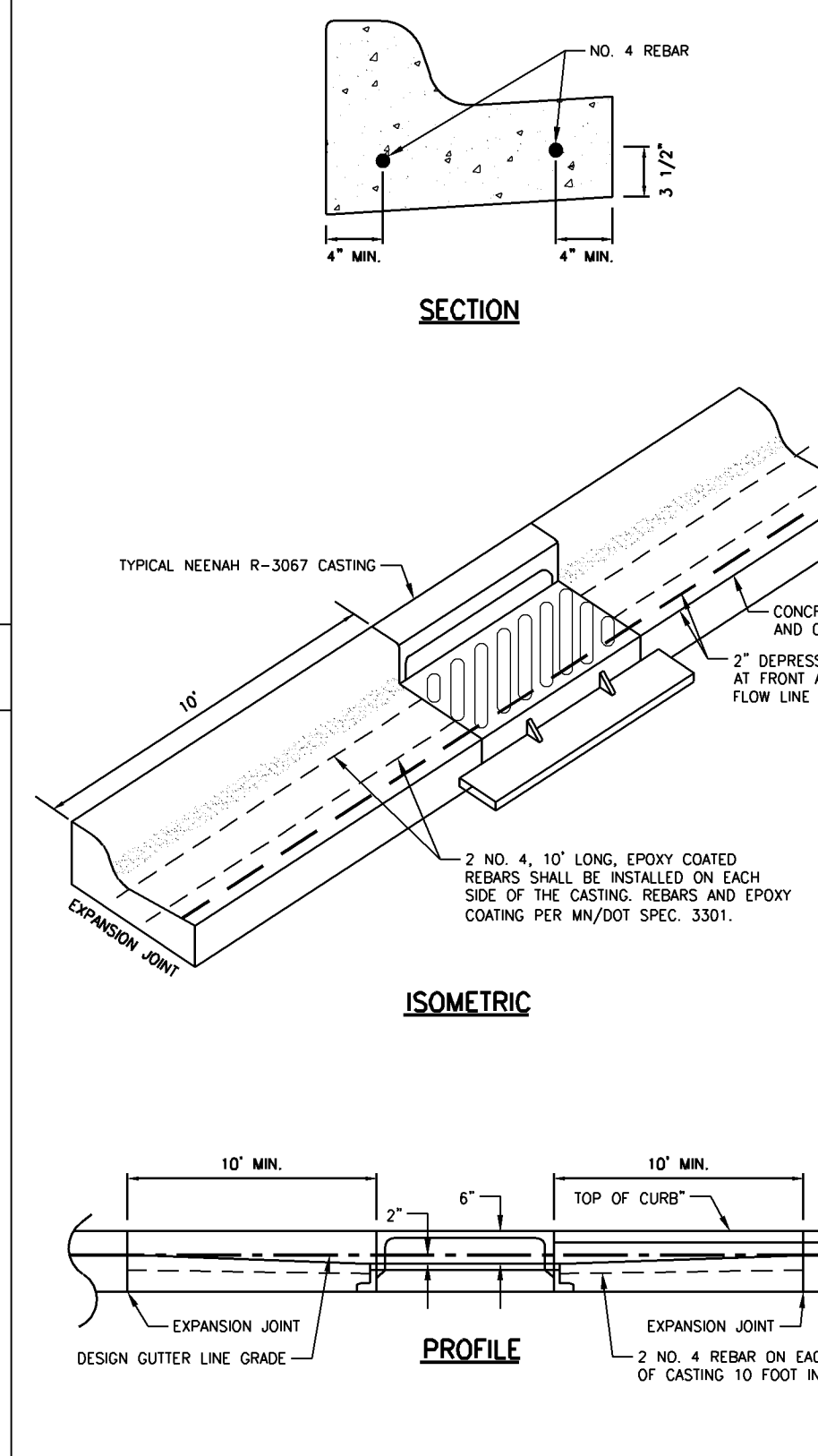
CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ENGINEER FOR REVIEW



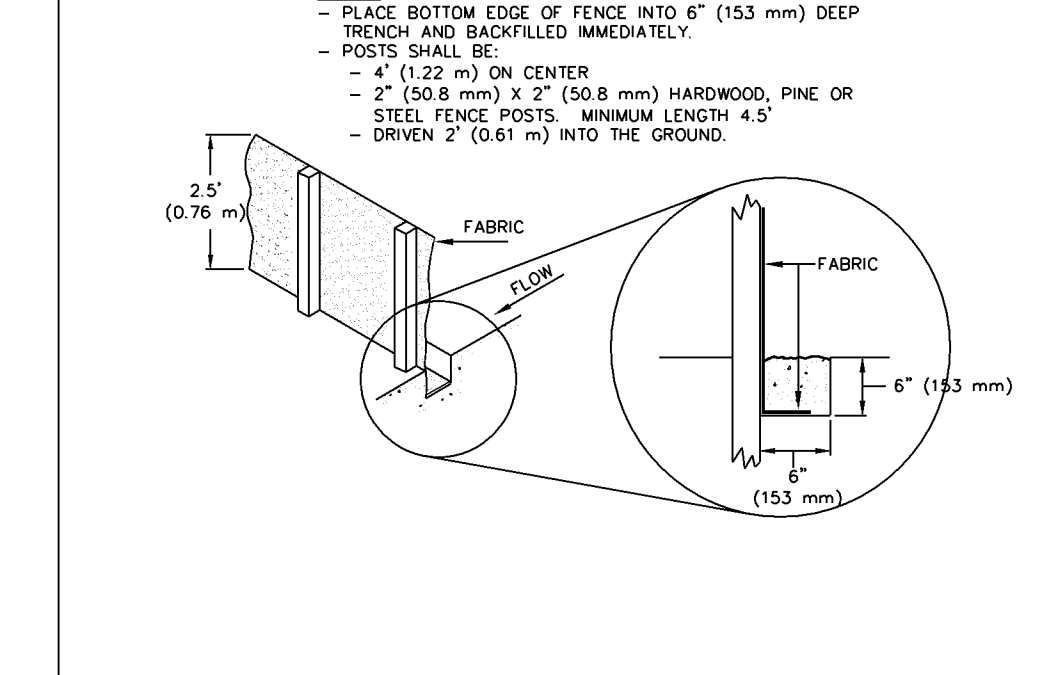
DOUBLETREE INFILTRATION BASIN



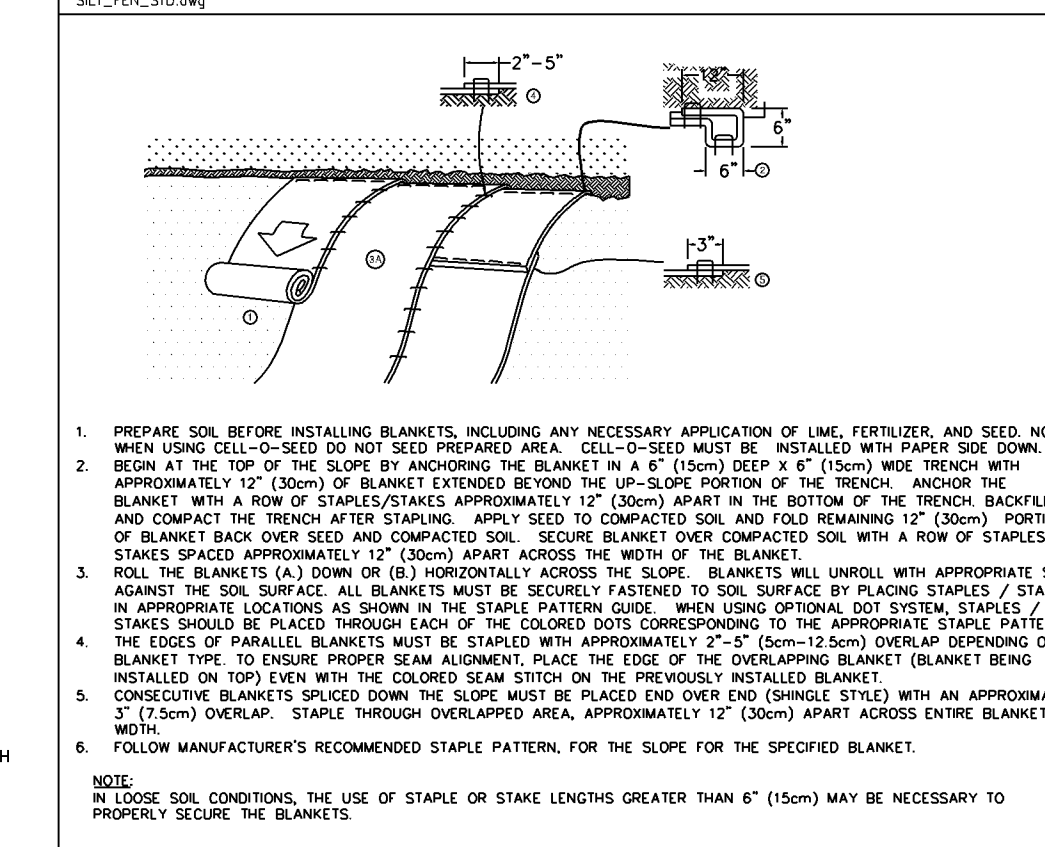
STAKING DETAIL: NEENAH R-4342 CASTING



B6 STYLE CURB & GUTTER CASTING BASIN CASTING INSTALLATION DETAIL



EROSION CONTROL FENCE



STANDARD STAPLE PATTERN

NYLOPLAST 18" DRAIN BASIN - PART # 7001-110-191

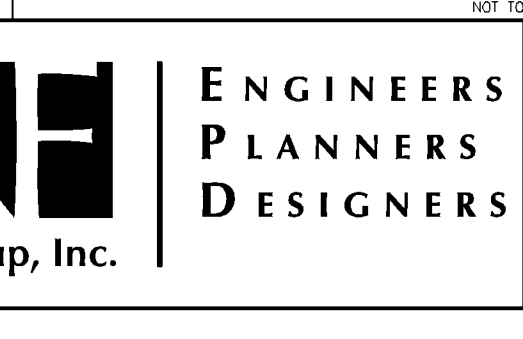
NO	DATE	BY	CHKD	APPR	DESCRIPTION
1	06/21/17	SNW	DSP	MCA	ADDITION OF PERMEABLE PAVEMENT BECAUSE OF IN-CONSTRUCTION CONDITIONS.

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 C. AARON**

Date: 5/15/2017 License #: 25721

DRAWN BY: P. GALZKI
 DESIGNED BY: P. GALZKI
 CHECKED BY: M. AARON
 COMM. NO. 10277.00

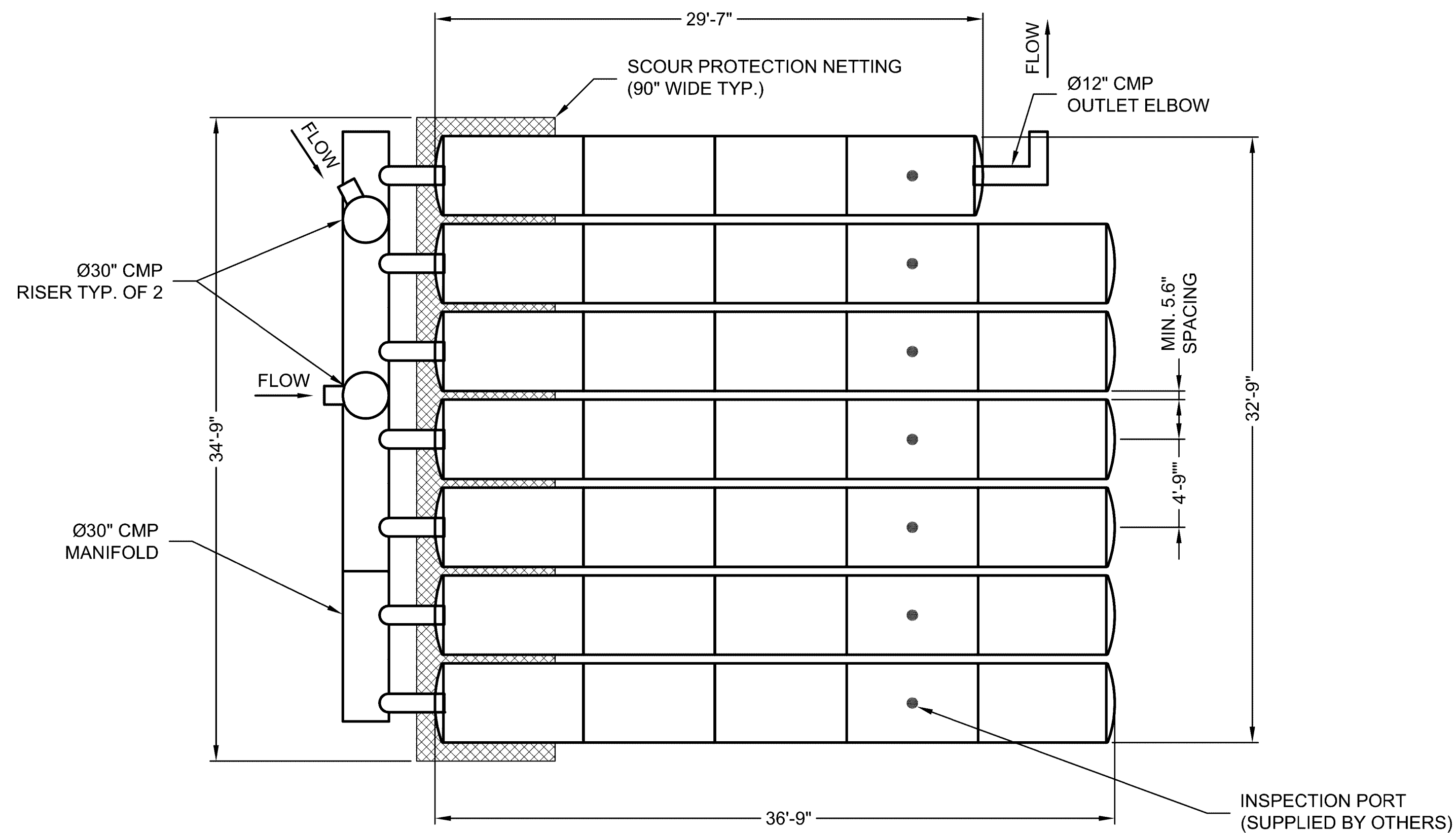


DOUBLETREE PARKING LOT RECONFIGURATION

7800 NORMANDALE BLVD
 CIVIL DETAILS
 BLOOMINGTON, MINNESOTA

SHEET C5.0

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ASSEMBLY

SCALE: 1'=10'

CHAMBER VOLUME: 1692 CF
 STONE VOLUME: 1018 CF
 TOTAL VOLUME: 2710 CF
 LOADING: H20/H25
 SYSTEM INV. = 817.00 ±

ITEM NUMBER	ITEM DESCRIPTION	CCP PART NUMBER	QTY	UNITS
1	CHAMBERMAXX START CHAMBER	APCM 003.3051.001	7	EA
2	CHAMBERMAXX MIDDLE CHAMBER	APCM 003.3051.002	20	EA
3	CHAMBERMAXX END CHAMBER	APCM 003.3051.003	7	EA
4	CONTECH C-40 NON-WOVEN GEOTEXTILE 15 FT X 360 FT	APCM 001.0015.002	1	ROLL
5	SCOUR PROTECTION NETTING, 7.5 FT WIDE	APCM 007.0075.001	1 @ 35	QTY @ LF

ITEM NUMBER	ITEM DESCRIPTION	CCP PART NUMBER	QTY	UNITS
6	Ø12" HDPE TEE	APCM 001.0012.009	5	EA
7	Ø12" 90 DEGREE HDPE ELBOW	APCM 001.0012.010	1	EA
8	Ø12" HDPE CROSS OVER	APCM 001.0012.014	1	EA
9	Ø12" MARMAC COUPLER	APCM 001.0012.011	6	EA
10	INSTALLATION GUIDE	N/A	1	EA

I:\AD\CONTECH\CPIC\COMPROT\MERLIN\PROJECT\ACTIVE\67154-10-CHAMBERMAXX\DRAWINGS\67154-10-CMX-CONFAB.DWG 8/7/2017 5:03 PM

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MARK	DATE	REVISION DESCRIPTION	BY
1	8-7-17	MANIFOLD, REMOVED CHAMBER	LMO

CONTECH
 ENGINEERED SOLUTIONS LLC
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 800-338-1122 513-645-7000 513-645-7993 FAX

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CONTECH
PROPOSAL
 DRAWING

CHAMBERMAXX RETENTION SYSTEM - 567154-010
 DOUBLETREE
 MINNEAPOLIS, MN
 SITE DESIGNATION: UNDERGROUND INFILTRATION SYSTEM

PROJECT No.: 567154	SEQ. No.: 010	DATE: 7/21/2017
DESIGNED: CMF	DRAWN: NLE	
CHECKED: LMO	APPROVED: CMF	
SHEET NO.: 1 OF 4		

NO	DATE	BY	CKD	APPR	DESCRIPTION
1	06/21/17	SNW	DSP	MCA	ADDITION OF PERMEABLE PAVEMENT BECAUSE OF IN-CONSTRUCTION CONDITIONS. ⚠

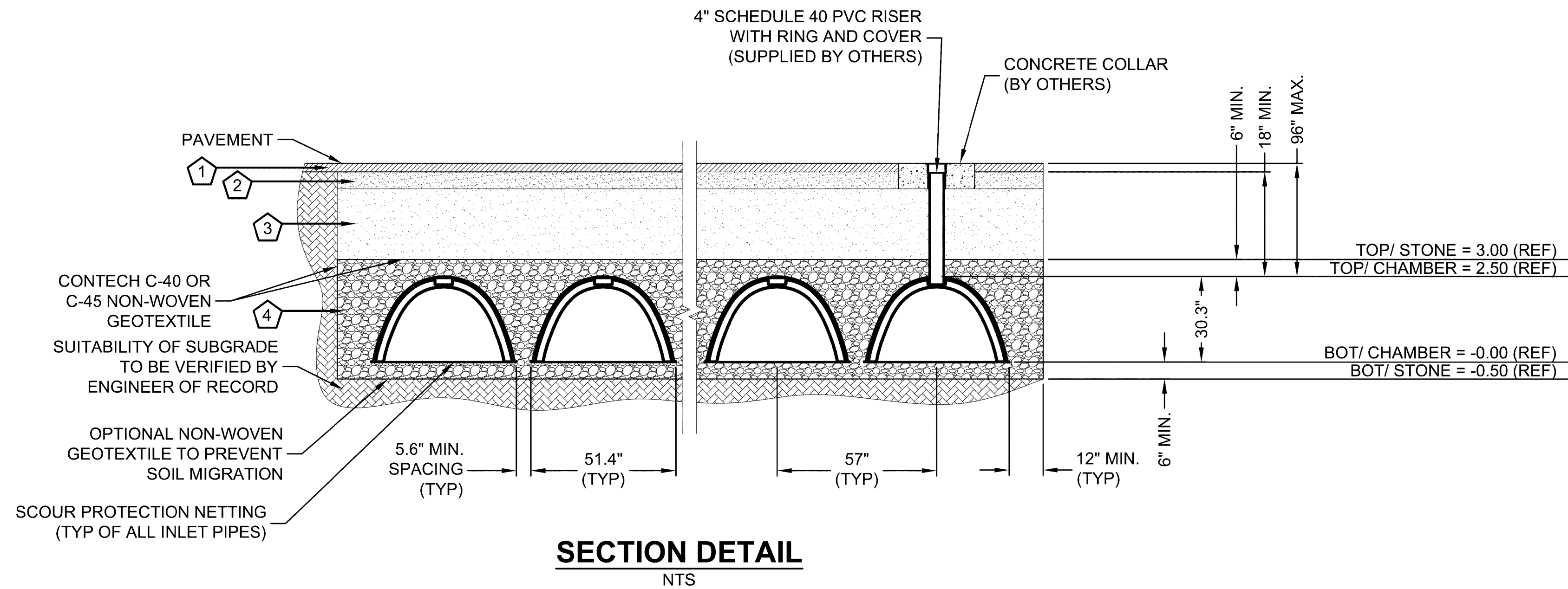
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Print Name: MICHAEL C. AARON

 Date: 5/15/2017 License #: 25721

DRAWN BY:
P. GALZKI
 DESIGNED BY:
P. GALZKI
 CHECKED BY:
M. AARON
 COMM. NO. 10277.00

SRE ENGINEERS
 PLANNERS
 DESIGNERS
 Consulting Group, Inc.

DOUBLETREE PARKING LOT RECONFIGURATION
 7800 NORMANDALE BLVD
 CIVIL DETAILS
 BLOOMINGTON, MINNESOTA



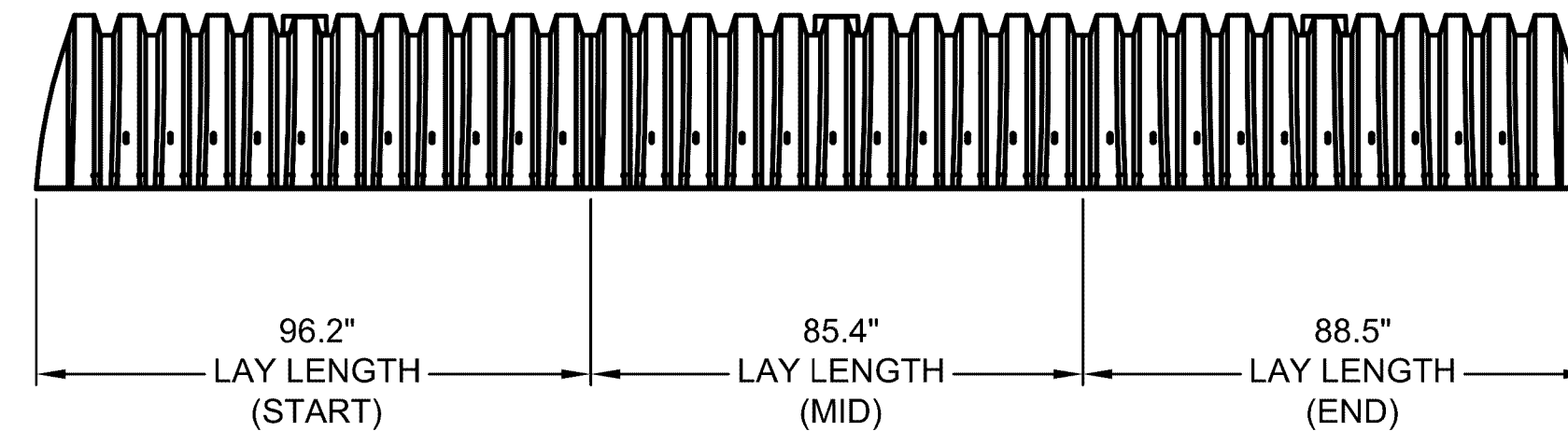
SECTION DETAIL
NTS

KEY

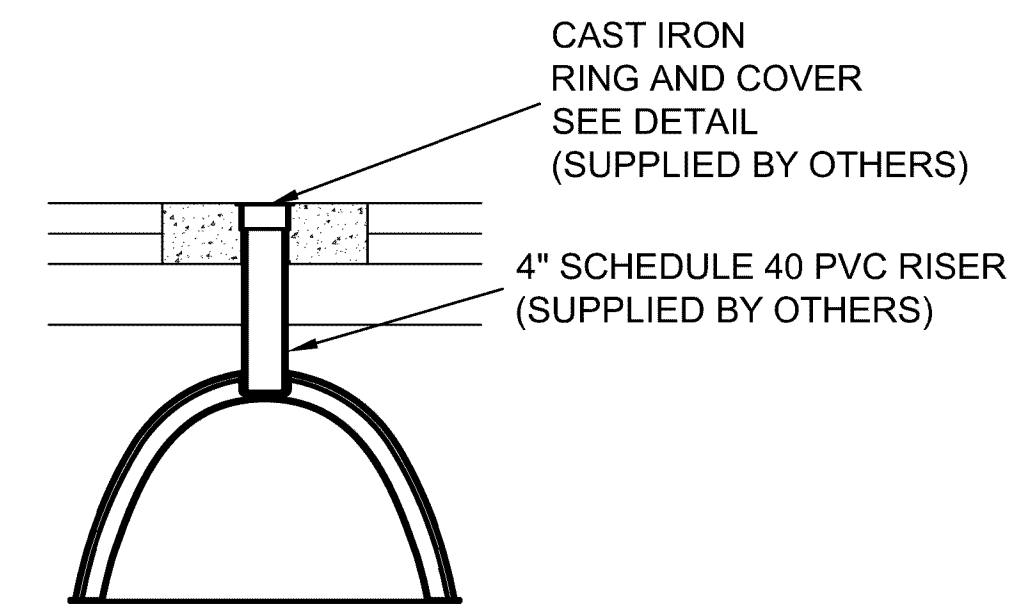
1. FLEXIBLE PAVEMENT.
2. GRANULAR ROAD BASE.
3. ANY SUITABLE NATIVE OR GENERAL BACKFILL, SEE ENGINEER PLANS.
4. THE BACKFILL MATERIAL SHALL BE FREE-DRAINING ANGULAR WASHED STONE 3/4" - 2" PARTICLE SIZE. MATERIAL SHALL BE PLACED IN 8"-10" MAXIMUM LIFTS. MATERIAL SHALL BE WORKED INTO THE CHAMBER SPACING BY MEANS OF SHOVEL-SLICING, RODDING, AIR-TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS. COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE PROJECT ENGINEER OR THEIR REPRESENTATIVE IS SATISFIED WITH THE LEVEL OF COMPACTION. INADEQUATE COMPACTION CAN LEAD TO EXCESSIVE DEFLECTIONS WITHIN THE SYSTEM AND SETTLEMENT OF THE SOILS OVER THE SYSTEM. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO-LIFT DIFFERENTIAL BETWEEN THE SIDES OF ANY CHAMBER IN THE SYSTEM AT ALL TIMES DURING THE BACKFILL PROCESS. BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON ANY PIPES IN THE SYSTEM.

EQUIPMENT USED TO PLACE AND COMPACT THE BACKFILL SHALL BE OF A SIZE AND TYPE SO AS NOT TO DISTORT, DAMAGE, OR DISPLACE THE CHAMBERS. ATTENTION MUST BE GIVEN TO PROVIDING ADEQUATE MINIMUM COVER FOR SUCH EQUIPMENT, AND MAINTAIN BALANCED LOADING ON ALL CHAMBERS IN THE SYSTEM, DURING ALL SUCH OPERATIONS.

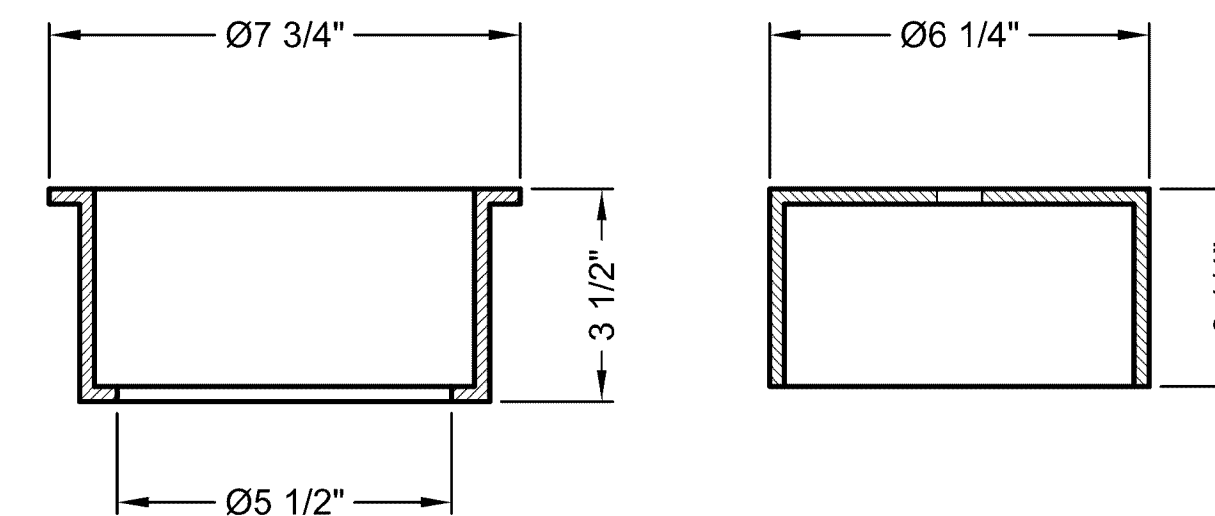
OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS. CONTACT YOUR LOCAL CONTECH REPRESENTATIVE FOR DETAILS.



TYPICAL ELEVATION VIEW
NTS



INSPECTION PORT DETAIL
NTS



RING AND COVER DETAIL
NTS

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MARK	DATE	REVISION DESCRIPTION	BY
1	8-7-17	MANIFOLD, REMOVED CHAMBER	LMO

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CHAMBERMAXX RETENTION SYSTEM - 567154-010
DOUBLETREE
MINNEAPOLIS, MN
SITE DESIGNATION: UNDERGROUND INFILTRATION SYSTEM

PROJECT No.: 567154	SEQ. No.: 010	DATE: 7/21/2017
DESIGNED: CMF	DRAWN: NLE	
CHECKED: LMO	APPROVED: CMF	
SHEET NO.: 2 OF 4		

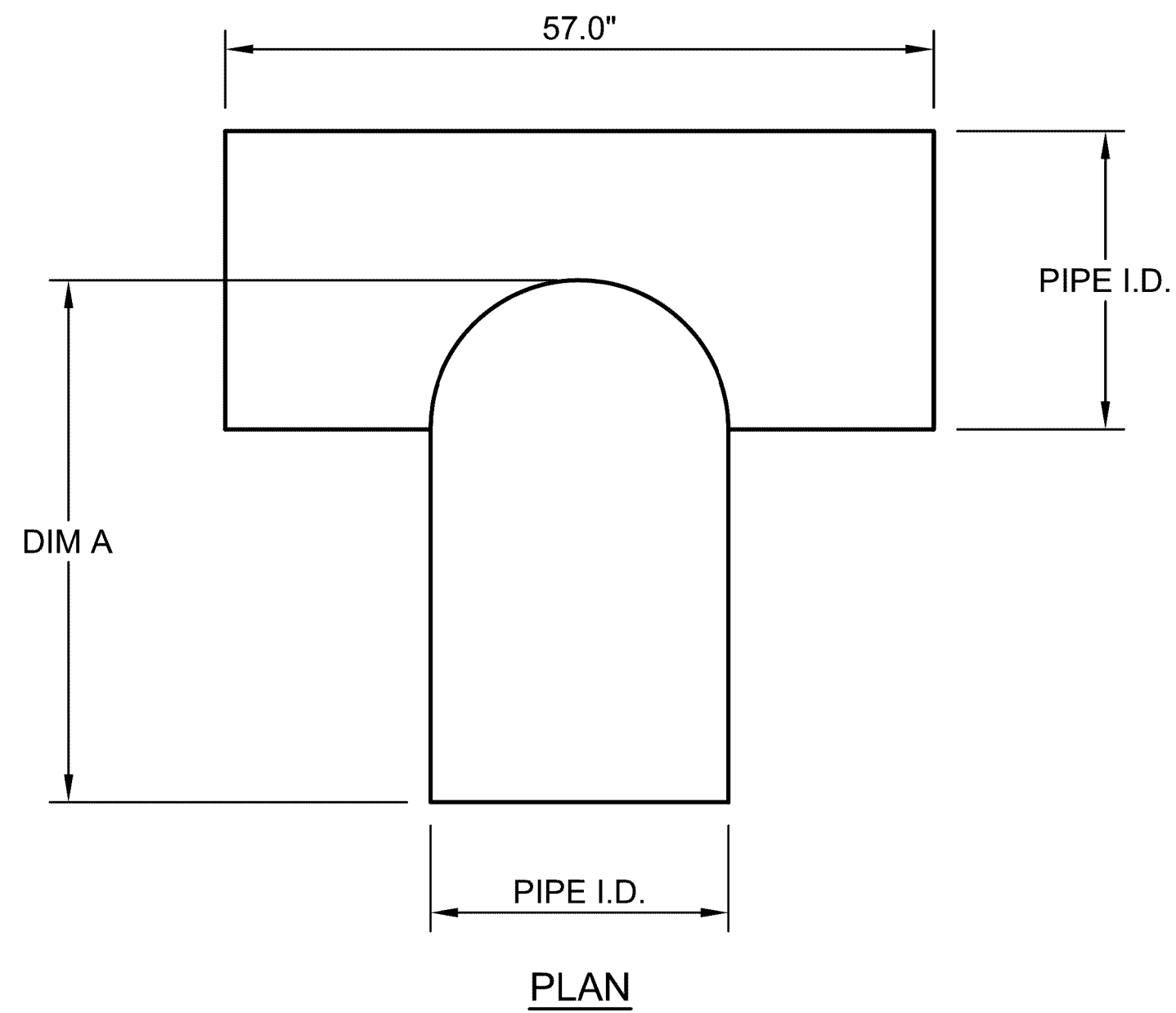
NO	DATE	BY	CKD	APPR	DESCRIPTION
1	06/21/17	SNW	DSP	MCA	ADDITION OF PERMEABLE PAVEMENT BECAUSE OF IN-CONSTRUCTION CONDITIONS. ⚠

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 C. AARON
Michael C. Aaron
Date: 5/15/2017 License #: 25721

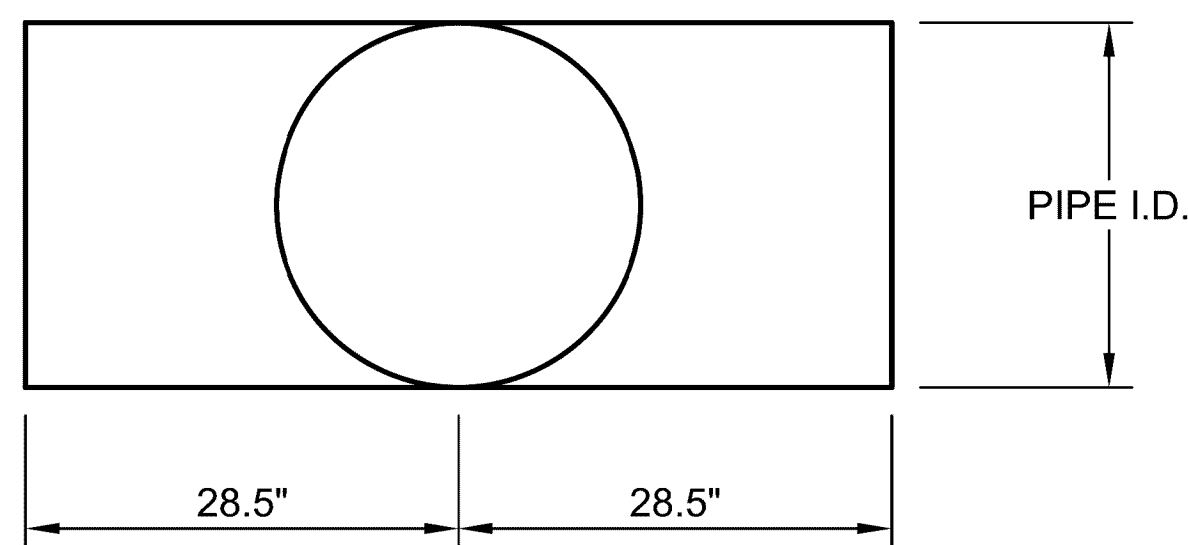
DRAWN BY: P. GALZKI
DESIGNED BY: P. GALZKI
CHECKED BY: M. AARON
COMM. NO. 10277.00

SRE ENGINEERS PLANNERS DESIGNERS
Consulting Group, Inc.

DOUBLETREE PARKING LOT RECONFIGURATION
7800 NORMANDEALE BLVD
CIVIL DETAILS
BLOOMINGTON, MINNESOTA

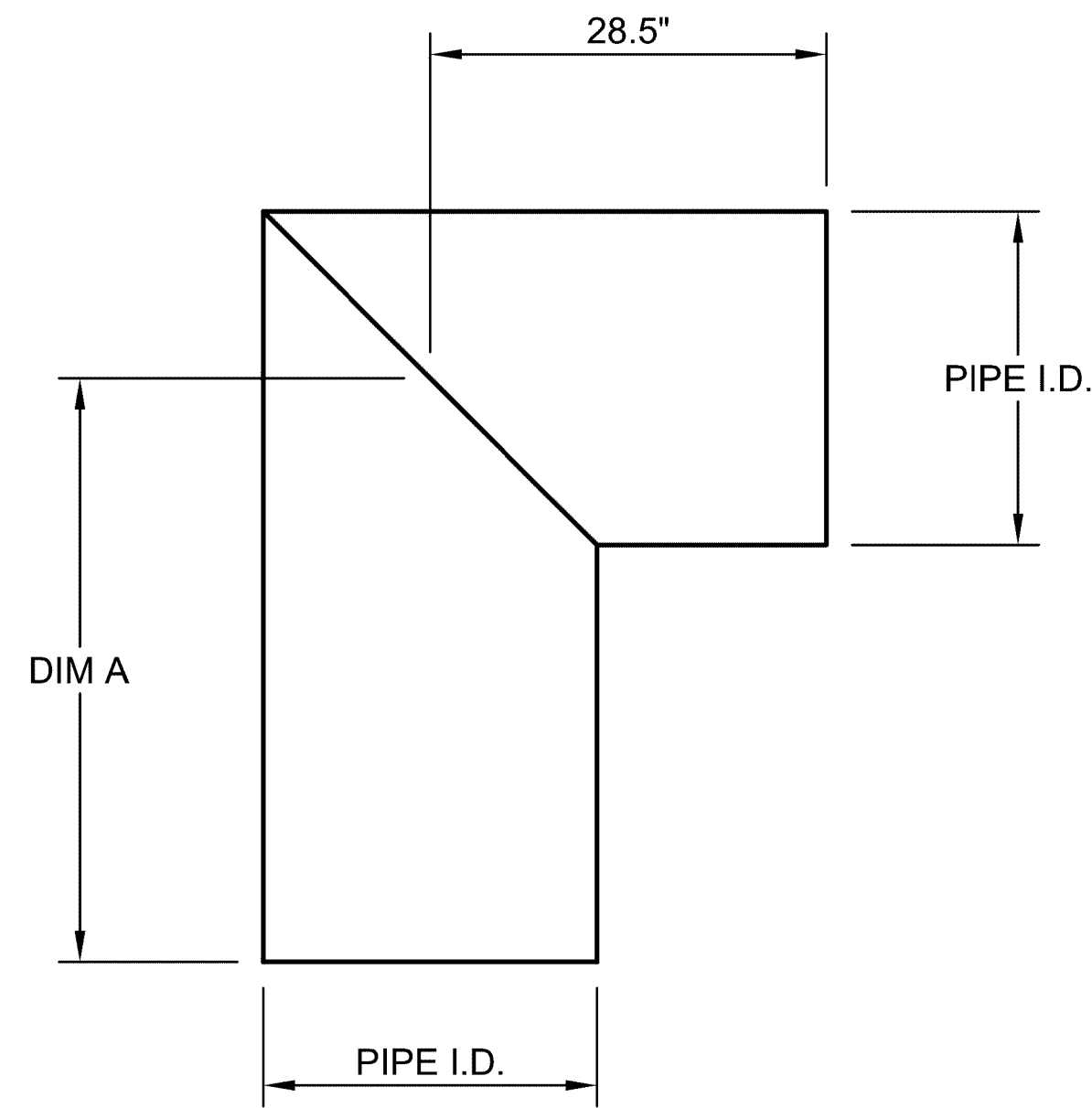


PLAN

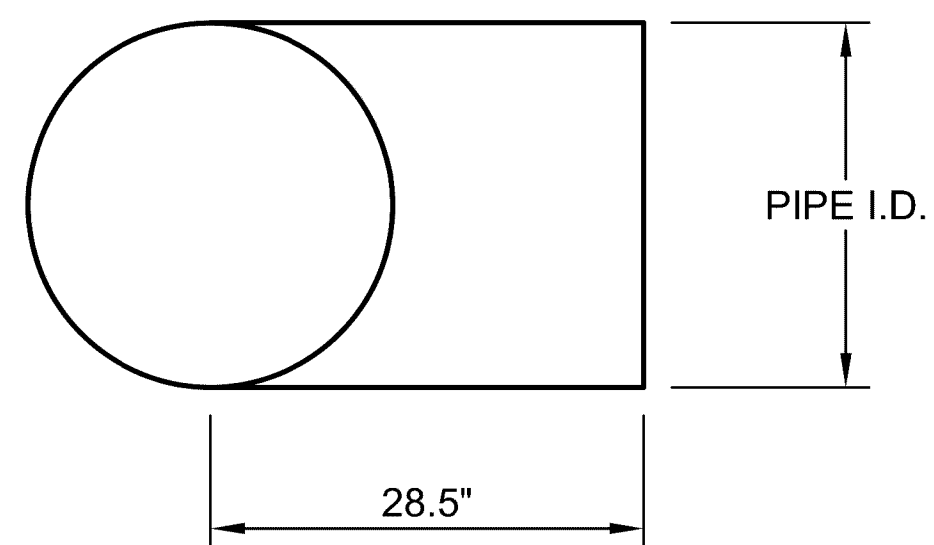


ELEVATION

CHAMBERMAXX TEE

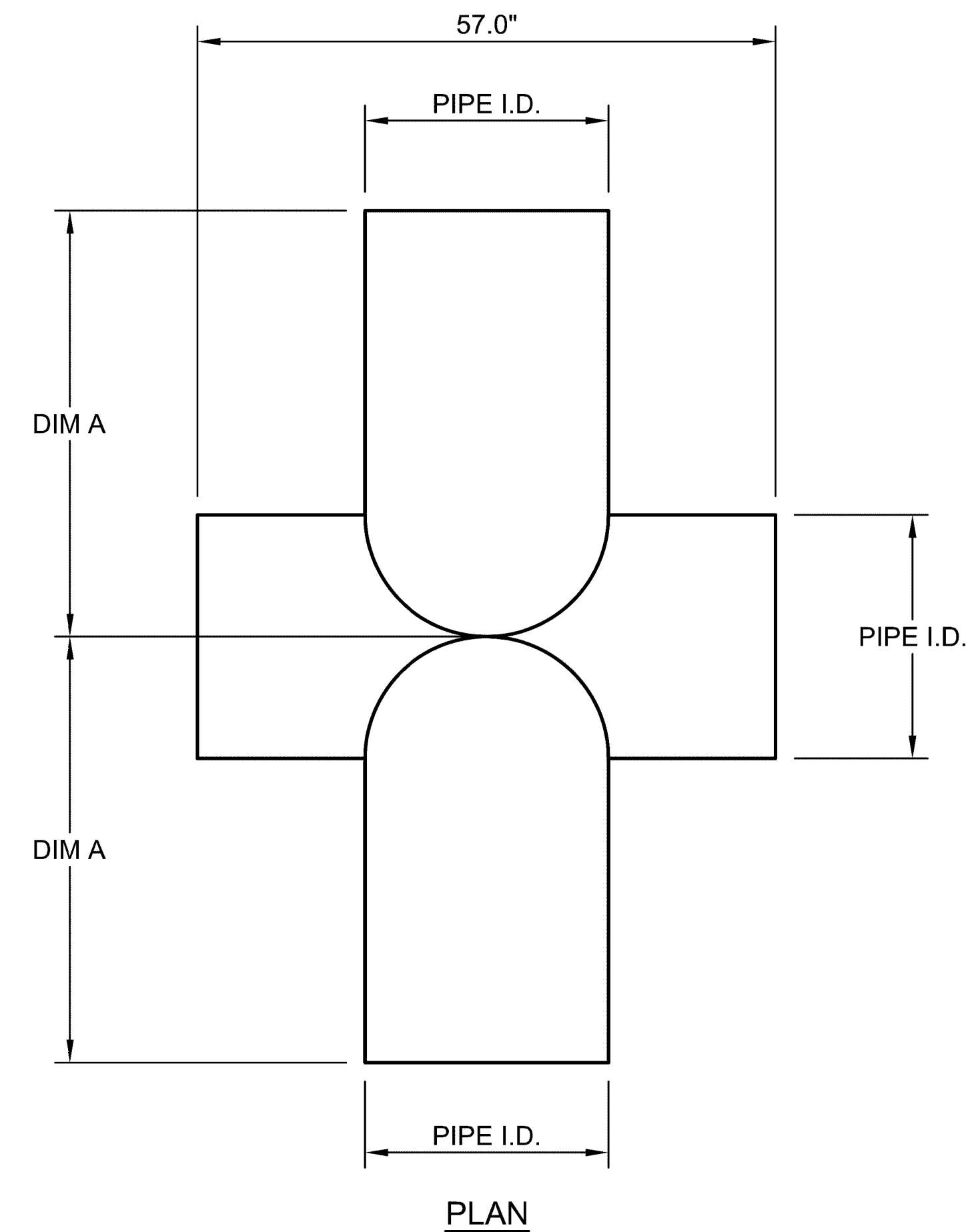


PLAN

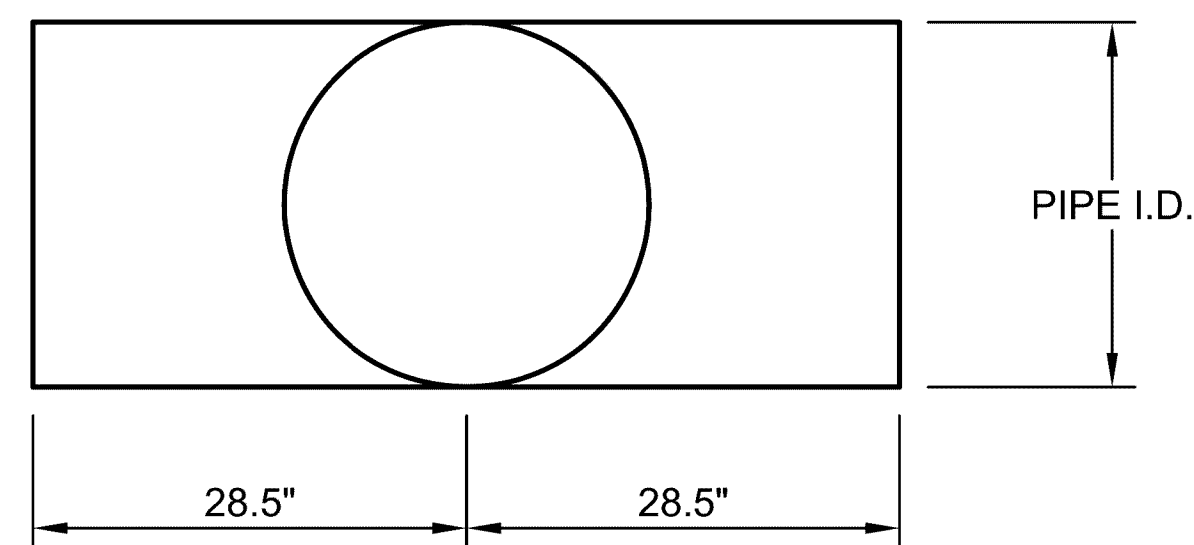


ELEVATION

CHAMBERMAXX ELBOW

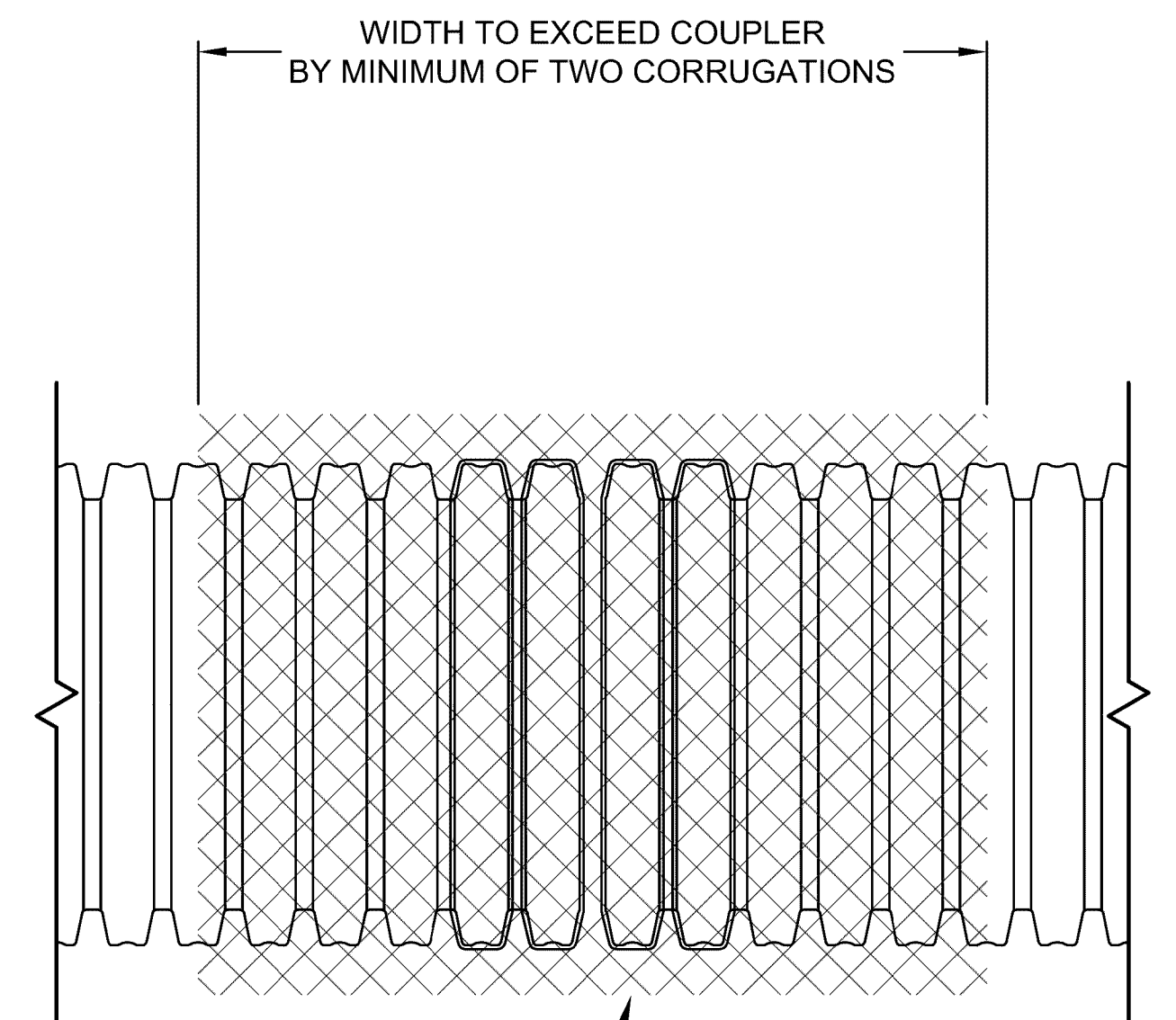


PLAN



ELEVATION

CHAMBERMAXX CROSS-OVER



MARMAC COUPLER DETAIL

GENERAL NOTES:

- FITTING MATERIAL TO BE MANUFACTURED FROM CORRUGATED HIGH DENSITY POLYETHYLENE, AASHTO M294 PIPE.
- FITTINGS TO BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M294.
- FITTINGS DESIGNED TO PROTRUDE 6" INTO END OF THE INLET CHAMBERS.
- MANIFOLD TEE AND ELBOW JOINTS TO BE CONNECTED UTILIZING MARMAC POLYSEAL COUPLERS. REFERENCE WWW.MARMAC.COM

STANDARD MANIFOLD COMPONENTS				
	AVAILABLE DIAMETERS (IN)			
TEE	12	15	18	24
ELBOW	12	15	18	24
DIM A	42	42	48	48

MANIFOLD DETAILS

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CHAMBERMAXX RETENTION SYSTEM - 567154-010
DOUBLETREE
MINNEAPOLIS, MN
SITE DESIGNATION: UNDERGROUND INFILTRATION SYSTEM

PROJECT No.: 567154	SEQ. No.: 010	DATE: 7/21/2017
DESIGNED: CMF	DRAWN: NLE	
CHECKED: LMO	APPROVED: CMF	
SHEET NO.: 3 OF 4		

NO	DATE	BY	CKD	APPR	DESCRIPTION
1	06/21/17	SNW	DSP	MCA	ADDITION OF PERMEABLE PAVEMENT BECAUSE OF IN-CONSTRUCTION CONDITIONS. ⚠

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Print Name: MICHAEL C. AARON
Michael C. Aaron
Date: 5/15/2017 License #: 25721

DRAWN BY:
P. GALZKI
DESIGNED BY:
P. GALZKI
CHECKED BY:
M. AARON
COMM. NO. 10277.00

SRE ENGINEERS
PLANNERS
DESIGNERS
Consulting Group, Inc.

DOUBLETREE PARKING LOT RECONFIGURATION
7800 NORMANDALE BLVD
CIVIL DETAILS
BLOOMINGTON, MINNESOTA

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CHAMBERMAXX DESIGN DETAILS

FEATURE	START CHAMBER	MIDDLE CHAMBER	END CHAMBER
OVERALL CHAMBER HEIGHT - IN	30.3	30.3	30.3
OVERALL CHAMBER WIDTH - IN	51.4	51.4	51.4
ACTUAL LENGTH - IN	98.4	91.0	92.0
INSTALLED LAY LENGTHS - IN	96.2	85.4	88.5
CHAMBER STORAGE VOLUME - CF	50.2	47.2	46.2
CHAMBER STORAGE PER LINEAR FOOT - CF/LF	6.3	6.6	6.3
*MIN. INSTALLED CHAMBER VOLUME - CF	78.1	75.1	74.1
*MIN. INSTALLED CHAMBER VOLUME PER LINEAR FOOT - CF/LF	9.7	10.6	10.0
CHAMBER WEIGHT - LB	83	73	76
*6" OF STONE ABOVE AND BELOW CHAMBER, 5.6" CHAMBER SPACING AND 40% POROSITY			

GENERAL NOTES

1. ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS AND INLETS SHALL BE VERIFIED BY THE ENGINEER OF RECORD.
2. PRIOR TO INSTALLATION OF THE CHAMBERMAXX SYSTEM A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED. THOSE REQUIRED TO ATTEND ARE THE SUPPLIER OF THE SYSTEM, THE GENERAL CONTRACTOR, SUB-CONTRACTORS AND THE ENGINEER.
3. CHAMBERMAXX CHAMBERS ARE MANUFACTURED FROM POLYPROPYLENE PLASTIC.
4. CHAMBERMAXX SYSTEM TO MEET AASHTO HS20/HS25 LIVE LOADING, PER AASHTO LRFD SECTION 12.
5. ACCESS COVERS TO MEET AASHTO HS20/HS25 LIVE LOADING.
6. MINIMUM COVER IS 18-INCHES TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR COVER HEIGHTS GREATER THAN 96-INCHES CONTACT YOUR LOCAL REPRESENTATIVE.
7. ALL PARTS PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.
8. FOR INFORMATION ON PRE-TREATMENT SYSTEMS, REFERENCE CONTECH PRE-TREATMENT SYSTEM STANDARD DETAILS OR CONTACT YOUR LOCAL REPRESENTATIVE.
9. CHAMBERMAXX BY CONTECH ENGINEERED SOLUTIONS (800) 925-5240

INSTALLATION NOTES

1. CHAMBERMAXX INSTALLATION GUIDE TO BE REVIEWED BY CONTRACTOR PRIOR TO INSTALLATION.
2. PRIOR TO PLACING BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, UNSUITABLE MATERIAL SHALL BE REMOVED AND BROUGHT BACK TO GRADE WITH FILL MATERIAL AS APPROVED BY THE ENGINEER OF RECORD. ONCE THE FOUNDATION PREPARATION IS COMPLETE, THE BEDDING MATERIAL CAN BE PLACED.
3. THE SCOUR PROTECTION NETTING TO EXTEND 1'-0" BEYOND OUTSIDE EDGE OF INLET CHAMBERS.
4. COVER ANY OPEN VOID SPACES GREATER THAN 3/4" ON CHAMBERS WITH A NON-WOVEN GEOTEXTILE TO PREVENT INFILTRATION OF BACKFILL MATERIAL.
5. STONE EMBEDMENT MATERIAL SHALL BE INSTALLED TO 95% STANDARD PROCTOR DENSITY AND PLACED IN 6-INCH TO 8-INCH LIFTS SUCH THAT THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANY TIME. GRANULAR BACKFILL MATERIAL SHALL BE COMPACTED TO 90% SPD. BACKFILLING SHALL BE ADVANCED ALONG THE LENGTH OF THE CHAMBER ROWS AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING AND DISPLACEMENT OF THE CHAMBERS. THE MINIMUM CHAMBER SPACING MUST BE MAINTAINED.
6. REFER TO CHAMBERMAXX INSTALLATION GUIDE FOR TEMPORARY CONSTRUCTION LOADING GUIDELINES.
7. IT IS ALWAYS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.
8. GENERAL INSTALLATION METHODS AND MATERIALS TO BE IN ACCORDANCE WITH ASTM D2321.

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DOUBLETREE
MINNEAPOLIS, MN

SITE DESIGNATION: UNDERGROUND INFILTRATION SYSTEM

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SHEET
C5.4