

## **AGENDA ITEM 4A**

**Public Hearing for Lot 2, Southport East Replat  
Nine Planned Unit Development (PUD)  
Amendment**





**CITY OF LA VISTA  
PLANNING DIVISION**

**RECOMMENDATION REPORT**

CASE NUMBER: PPUD-18-0004

For Hearing of: September 20, 2018  
Report Prepared on: September 12, 2018

**I. GENERAL INFORMATION**

**A. APPLICANT:** Advance Design & Construction

**B. PROPERTY OWNER(S):**

Premium Building Group, LLC  
15002 A Circle  
Omaha, NE 68144

**C. LOCATION:** East of the Southport Parkway and South 123<sup>rd</sup> Plaza intersection

**D. LEGAL DESCRIPTION:** Lot 2 Southport East Replat Nine

**E. REQUESTED ACTION(S):**  
Planned Unit Development (PUD) Site Plan amendment to allow for the development of a two-story office building.

**F. EXISTING ZONING AND LAND USE:**  
C-3 Highway Commercial/Office Park District and Gateway Corridor District (Overlay District); the property is currently vacant.

**G. PROPOSED USES:** Developer wishes to construct a two-story multi-tenant office building.

**H. SIZE OF SITE:** 1.569 Acres.

**II. BACKGROUND INFORMATION**

**A. EXISTING CONDITION OF SITE:** The existing site is vacant ground. There is a gradual downward grade to the east.

**B. GENERAL NEIGHBORHOOD/AREA LAND USES AND ZONING:**

1. **North:** Securities America; C-3 Highway Commercial/Office Park District and Gateway Corridor District (Overlay District)
2. **West:** MyPlace and Lot 2 Southport East Replat Fourteen (vacant); C-3 Highway Commercial/Office Park District and Gateway Corridor District (Overlay District)



3. **South:** Hampton Inn, Southport Center strip commercial building, and Lots 3 & 5 Southport East Replat Six (vacant); C-3 Highway Commercial/Office Park District and Gateway Corridor District (Overlay District)
4. **East:** Lots 1 and 3 Southport East Replat 9- Vacant; C-3 Highway Commercial/Office Park District and Gateway Corridor District (Overlay District)

**C. RELEVANT CASE HISTORY:**

1. A PUD Site Plan and Ordinance amendment was approved for Lots 14-A and 15-A, Southport East Replat Eight and Lots 1-4, Southport East Replat Nine on December 19, 2017.
2. A PUD Site Plan and Ordinance was originally approved for Southport East Replat Nine on August 7, 2007.

**III. ANALYSIS**

**A. COMPREHENSIVE PLAN:** The Future Land Use Map of the Comprehensive Plan designates this property for commercial uses.

**B. OTHER PLANS:** N/A

**C. TRAFFIC AND ACCESS:**

1. An earlier traffic analysis for the study area intersections included anticipated development such as the proposed two-story office building. The increase in GFA from the initial PUD plan will have a minimal impact on Level of Service (LOS) (between the 2040 Background and 2040 Build scenarios) at the intersections within the study during the peak traffic hours for the study horizon year of 2040. This conclusion assumes improvements to Giles Road and the Exit 442 interchange recommended by other recent traffic studies occur by 2040.
2. Due to this development, along with anticipated surrounding growth, some movements at the Giles Road intersections between 120<sup>th</sup> and the I-80 ramps will operate at LOS "F" in both the 2020 and 2040 study years, even with improvements. Tenants will need to anticipate peak hour congestion or alter their schedules to avoid the peak periods.

**D. UTILITIES:** All utilities are available to the site.

**E. PARKING REQUIREMENTS:**

1. Based on information provided from the applicant regarding the proposed uses, staff determined that utilizing a minimum parking ratio of 4.5 stalls per 1,000 square feet of gross leasable floor area of multi-tenant flex buildings, as dictated within the December 2017 PUD



Ordinance is sufficient. This would reduce the minimum parking requirement to 94 stalls.

**F. LANDSCAPING:**

1. The PUD ordinance for this property requires a minimum greenspace requirement of 20%. The site plan provided depicts a greenspace percentage of 18.9%. Adjustments to the PUD site plan need to be made to increase this to the required 20% prior to City Council review.
2. As per an April 2007 exhibit, a corner streetscape feature is required at the northern corner of Lot 2 in accordance with the Southport East Design Guidelines. However, further review concluded that the proposed location of the corner streetscape feature at the western corner is appropriate. This design will need to be replicated on the west side of Southport Parkway at the same intersection.
3. The landscape plan is currently under review by the City's Design Review Architect as part of the overall building and site design package. The design review process needs to be substantially complete prior to City Council review.

**G. BUILDING DESIGN:**

1. The building design has been reviewed as part of the design review process that is required for developments within the Southport East as per the Southport East Design Guidelines. The design review process is required to be fully completed prior to issuance of a building permit.

**IV. REVIEW COMMENTS:**

1. Comments from the Fire Marshall regarding this application have not been provided. The Fire Marshall will conduct reviews as necessary, at the time of building permit.
2. Proposed revisions to the recorded common area installation and maintenance agreement needs to be provided along with a statement identifying proposed changes. Additional documentation needs to be provided stating the approval of the other owners in the PUD of the proposed changes.
3. The Site Paving and Layout Plan depicts the correct sidewalk widths for the development. However, the legend and the reference notes conflict in regards to sidewalk paving thickness. Sidewalks are required to be 5" thick. This will need to be corrected prior to submission for City Council approval.
4. The gross floor area stated on the Site Layout Plan needs to be recalculated to include the floor area of both floors.

**V. STAFF RECOMMENDATION – PUD SITE PLAN:**

Approval of the PUD Site Plan for an office development contingent on satisfactory amendments to the recorded common area installation and maintenance agreement and the finalization of adjustments to the PUD plan set as required by city staff prior to City Council approval, as the PUD Site Plan request is consistent with the Comprehensive Plan and the Zoning Ordinance.



**VI. ATTACHMENTS TO REPORT:**

1. Vicinity Map
2. Staff Review and Consultant Response Letters
3. Draft PUD Site Plan Map Set

**VII. COPIES OF REPORT TO:**

1. Mike Sassen, Premium Building Group, LLC
2. Austin Abboud, Advance Design and Construction, Inc.
3. David Harnisch, E & A Consulting Group, Inc.
4. Public Upon Request

Prepared by:

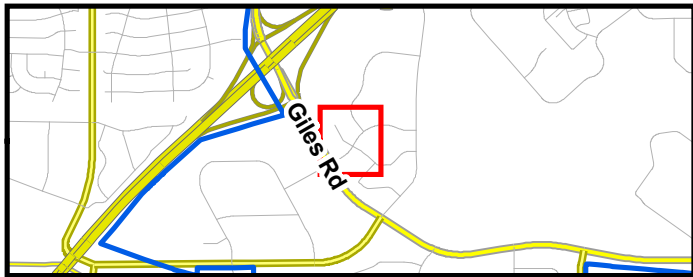
Community Development Director

Date





**Project Vicinity Map**



**Lot 2, Southport East Replat Nine PUD Amendment**

9/13/18  
CRB





June 21, 2018



Austin Abboud  
Advance Design & Construction, Inc.  
15002 A Circle  
Omaha, NE 68144

RE: Planned Unit Development (PUD) Site Plan Amendment  
Initial Review  
Lot 2, Southport East, Replat 9

Mr. Abboud,

We have reviewed the documents submitted for the above-referenced application. Based on the elements for consideration set forth in the applicable sections of the Zoning Ordinance, the City has the following comments:

As an administrative note, the application to amend the PUD is required to be signed by at least 51 percent of the property owners of the original PUD.

1. Article 5.15.04.01: The applicant needs to submit a proposed schedule of construction that is compliant with this article.
2. Article 5.15.04.02: A copy of the recorded common area installation and maintenance agreement needs to be provided along with a statement identifying what entities are building the shared, private infrastructure. The easement areas need to be labelled and referenced to the recorded instrument on the Site Layout Plan. A particular item to be addressed is the installation of the sanitary sewer across Lot 2 to serve Lot 1 in the future which would be very difficult to construct at a later date.
3. Article 5.15.04.03: The proposed development on Lot 2 will result in over 21,000 square feet of gross floor area whereas the current PUD plan anticipated 6,720 square feet of gross floor area. If the proposed development remains compliant with the criteria for amount of greenspace (not less than 20% of lot area) and the parking requirement is met, then the City Engineer does not recommend requiring a new traffic impact study. The previous study for Lot 3 was not based on a particular trip generation for Lot 2. The applicant should expect that there will be congestion at peak hours at intersections serving this project, particularly intersections connecting to Giles Road. Occupants of this facility could avoid delays and frustration by adjusting arrival and departure times and should consider this option.
4. Article 5.15.04.04: Comments have not been received from the Papillion Fire Department regarding the application. If the Fire Marshall has any comments regarding the PUD, those will be forwarded upon receipt.

**City Hall**  
8116 Park View Blvd.  
La Vista, NE 68128-2198  
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f: 402-331-4375

**Community Development**  
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p: 402-331-4343  
f: 402-331-4375

**Fire**  
8110 Park View Blvd.  
p: 402-331-4748  
f: 402-331-0410

**Golf Course**  
8305 Park View Blvd.  
p: 402-339-9147

**Library**  
9110 Giles Rd.  
p: 402-537-3900  
f: 402-537-3902

**Police**  
7701 South 96th St.  
p: 402-331-1582  
f: 402-331-7210

**Public Buildings & Grounds**  
8112 Park View Blvd.  
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**Public Works**  
9900 Portal Rd.  
p: 402-331-8927  
f: 402-331-1051

**Recreation**  
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[www.cityoflavista.org](http://www.cityoflavista.org)  
[info@cityoflavista.org](mailto:info@cityoflavista.org)



5. Article 5.15.04.05: See initial comment about the amendment of the PUD requiring at least 51% of the PUD property owners.
6. Article 5.15.04.06: The development proposal remains compliant with the PUD plan approved in December of 2017 in regards to access locations and drainage patterns.
7. Article 5.15.04.07: The plans indicate approximately 21,000 square feet of building area. The zoning regulations would require 1 stall per 200 square feet or 105 stalls, but this Article allows the PUD to reduce the requirement if parking is to be shared by more than one land use or business. The PUD approved in December 2017 has language that says parking shall comply with Section 7.06 of the Zoning regulations, or "the ratio of 4.5 stalls per 1,000 square feet of gross leasable floor area of multi-tenant flex buildings". The applicant needs to provide data/explanations supporting the proposed 99 parking spaces in conformance with Section 7.06 or the language set forth in the current PUD as noted.
8. Articles 5.15.04.08: The landscape area along the south side of Lot 2 does not appear to be compliant with Section 7.17.03.02 (3) of the Zoning Ordinance, which requires a minimum of one (1) tree planted per 40 lineal feet of frontage. The landscaped area along Southport Pkwy on the west side of Lot 2 would need to be 20 feet wide instead of 15 feet wide as shown. Also, the site plan needs to contain data showing compliance with the minimum requirement of 20% greenspace set forth in the current PUD for this property. The grading plan submitted does not depict the required berming of the landscaped areas along Southport Parkway as required per the Southport East Design Guidelines. The landscape plan is currently under review by the City's Design Review Architect as part of the overall building and site design package. A separate design review letter will be forwarded once the initial review has been completed. The design review process needs to be substantially complete prior to proceeding through the Planning Commission and City Council approval process.
9. Article 5.15.04.09: Building setbacks are not dimensioned on the Southport Parkway or 123<sup>rd</sup> Plaza sides of the building.
10. Article 5.15.04.10: Building coverage does not appear to be an issue, but data should be set forth on the Site Layout Plan.
11. Article 5.15.04.11: Not applicable
12. Article 5.15.04.12: While there is not specifically common open space, there is shared, private infrastructure. The applicant should be aware of the requirement to participate in the operation and maintenance of such facilities.
13. Article 5.15.04.13: Not applicable
14. Article 5.15.04.14: The plan is compliant with the access requirements of this section as proposed.
15. Article 5.15.04.15: The sidewalk along Southport Parkway needs to be 8 feet wide, 5 inches thick, which was required in the current PUD. The sidewalk along 123<sup>rd</sup> Plaza can be 5 feet wide as shown. A corner streetscape feature is



required at the northwesterly corner of Lot 2 in accordance with the Southport East Design Guidelines. There will need to be consideration of pedestrian connectivity from the building on Lot 2 to the perimeter sidewalk system.

16. Article 5.15.04.16: Not applicable
17. Articles 5.15.04.17-21: The building and site design is currently under review by the City's Design Review Architect. A separate design review letter will be forwarded once the initial review has been completed. The design review process needs to be substantially complete prior to proceeding through the Planning Commission and City Council approval process.
18. Article 5.15.05.03: Provide information on Site Layout Plan for Items 1, 3, 4, and 7 in this article. Specifically these items are:
  1. Net area in square feet or acres. (*Note: Net area does not include land dedicated or necessary to be dedicated for public street right-of-way. If more than one parcel is proposed, designate net area by parcel as well as total net area.*)
  3. Building coverage of the net area of the planned unit development by individual parcel or total development.
  4. The percentage of the development plan provided for common open space as defined by this regulation.
  7. Gross floor area proposed for commercial buildings.
19. Article 5.15.05.04: Provide a statements on the PCSMP plan sheet that the Stormtech system will be sized to address first one-half of storm water runoff for water quality and to limit peak storm water runoff flows for 2-year events to pre-development levels.
20. Article 5.15.05.05: Was satisfactorily addressed in the submittal
21. Article 5.15.05.06: A vicinity map was provided on the PCSMP plan sheet.

The proposed development will need to obtain FFA approval prior to building permit issuance. Also, there may be private, protective covenants recorded against the property that the applicant should review.

Please submit 4 full size copies (along with electronic copies) of the revised documents. A timeline for review by Planning Commission and City Council will be determined after review of the revised documents.

If you have any questions regarding these comments please feel free to contact me at any time.

Thank you,



Christopher Solberg, AICP  
City Planner



cc: Ann Birch, Community Development Director  
John Kottmann, City Engineer  
File





**ADC**  
www.adcomaha.com

**ADVANCE DESIGN & CONSTRUCTION**  
CREATING UNIQUE COMMERCIAL SPACES

August 13, 2018

City of La Vista  
Attn: Christopher Stolberg, AICP, City Planner  
8116 Park View Blvd.  
La Vista, NE, 68128-2198

RE: PREMIUMS BUILDING GROUP, LLC  
Lot #1, Southport East Replat Nine  
Parking Spaces Data/ Explanation  
La Vista, NE

Mr. Solberg,

On behalf of the Owner/ Developer, we are submitting this letter as a response to the parking spaces data/ explanation reduction. When developing this project, we took information from Proposed Tenants on current & potential future employment to develop the building along with sitework including the required parking stalls to meet the demands of tenant users leasing space. The number of parking spaces needed to meet the maximum working shift of tenants is described below.

The proposed Property is designed and setup for three tenants which will be occupying three separate areas of the building with current Employee number listed below:

-First Tenant – Entire Second Floor approximately 10,334 rentable square feet of space – Approximately 50 Employees on Largest Shift.

-Second Tenant – First (Ground) Floor approximately 7,000 rentable square feet of space – Approximately 23 Employees On Largest Shift.

-Third Tenant – First (Ground) Floor approximately 2,896 rentable square feet of space – Approximately 9 Employees on the Largest Shift.

Total Number of Employees of Largest Shift: 82 Parking Spaces Required, 99 Parking Spaces Provided.

Please let us know if you require additional information or have any further questions.

Sincerely,  
Austin Abboud  
Advance Design & Construction, Inc.  
DesignTech Construction, Inc.  
15002 "A" Circle, Omaha, Ne, 68135  
Austin@adchomes.com  
Cell Phone: 402.689.7365  
Office: 402.861.0484  
Fax: 402.891.9668

402.861.0484

15002 A Circle, Omaha, NE 68144

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**ADC**  
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**ADVANCE DESIGN & CONSTRUCTION**  
CREATING UNIQUE COMMERCIAL SPACES

August 14, 2018

City of La Vista  
Attn: Christopher Stolberg, AICP, City Planner  
8116 Park View Blvd.  
La Vista, NE, 68128-2198

RE: PREMIUMS BUILDING GROUP, LLC  
Lot #2, Southport East Replat Nine  
Parking Spaces Data/ Explanation  
La Vista, NE

Mr. Solberg,

On behalf of the Owner/ Developer, we are submitting this letter as a response to the PUD site plan amendment initial review letter for Lot 2, Southport East, Replat 9 regarding item number 12 in that letter. Related to Article 5.15.04.12 that the owner of Lot #2, PREMIUMS BUILDING GROUP, LLC, is aware of the requirement to participate in the the operation and maintenance of the shared, private infrastructure facilities.

Please let us know if you require additional information or have any further questions.

Sincerely,  
Austin Abboud  
Advance Design & Construction, Inc.  
DesignTech Construction, Inc.  
15002 "A" Circle, Omaha, Ne, 68135  
Austin@adchomes.com  
Cell Phone: 402.689.7365  
Office: 402.861.0484  
Fax: 402.891.9668



August 30, 2018



Austin Abboud  
Advance Design & Construction, Inc.  
15002 A Circle  
Omaha, NE 68144

RE: Planned Unit Development (PUD) Site Plan Amendment  
2nd Review  
Lot 2, Southport East, Replat 9

Mr. Abboud,

We have reviewed the documents submitted for the above-referenced application. Based on the elements for consideration set forth in the applicable sections of the Zoning Ordinance, the City has the following comments:

1. Article 5.15.04.01: The applicant has submitted a proposed schedule of construction. However, that schedule is incorrect as it does not reflect final approval of the PUD at the proposed City Council review date of October 16, 2018.
2. Article 5.15.04.02: Proposed revisions to the recorded common area installation and maintenance agreement needs to be provided along with a statement identifying proposed changes. Additional documentation needs to be provided stating the approval of the other owners in the PUD of the proposed changes.
3. Article 5.15.04.04: Comments have not been received from the Papillion Fire Department regarding the application. If the Fire Marshall has any comments regarding the PUD, those will be forwarded upon receipt.
4. Article 5.15.04.05: The application to amend the PUD requires the signatures of at least 51% of the PUD property owners. This has not been provided.
5. Article 5.15.04.07: Applicant and provided sufficient additional information to conclude that utilizing a minimum ratio of 4.5 stalls per 1,000 square feet of gross leasable floor area of multi-tenant flex buildings, as dictated within the December 2017 PUD Ordinance is sufficient. This would reduce the minimum parking requirement to 94 stalls.
6. Article 5.15.04.08: The landscape area along the south side of Lot 2 does not comply with the requirement of a minimum of one (1) tree planted per 40 lineal feet of frontage. Although it has been argued that the abutting road is not a dedicated street, the City has consistently held this requirement for developments along public easement roadways as the intent of the landscaping is the same.

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[info@cityoflavista.org](mailto:info@cityoflavista.org)



The PUD ordinance for this property requires a minimum greenspace requirement of 20%. The site plan provided depicts a greenspace percentage of 18.9%. Adjustments to the PUD site plan need to be made to increase this to the required 20%. Through rough calculations it is determined that this can be achieved by reducing the depth of the exterior-facing parking stalls along the NW, SW, and SE lot lines by two feet as per Section 7.17.05.05 (second paragraph). It appears that it can also be achieved by reducing the parking stalls to the minimum requirement of 94 stalls as noted in issue #5 above. Or some combination thereof.

The landscape plan is currently under review by the City's Design Review Architect as part of the overall building and site design package. A separate design review letter will be forwarded once the initial review has been completed. The design review process needs to be substantially complete prior to City Council approval.

7. Article 5.15.04.09: Building setbacks are not dimensioned on the 123<sup>rd</sup> Plaza side of the building.
8. Article 5.15.04.15: As noted in the previous letter, the sidewalk along Southport Parkway needs to be 8 feet wide, 5 inches thick, which was required in the current PUD. The sidewalk along 123<sup>rd</sup> Plaza can be 5 feet wide as shown. Also as note in the initial review, a corner streetscape feature is required at the northwesterly corner of Lot 2 in accordance with the Southport East Design Guidelines. Please see the attached exhibit noting the locations of the planned corner landscape locations in relation to your proposed development.

As noted in the initial review letter, there will need to be consideration of pedestrian connectivity from the building on Lot 2 to the perimeter sidewalk system.

9. Articles 5.15.04.17-21: The building and site design is currently under review by the City's Design Review Architect. A separate design review letter will be forwarded once the initial review has been completed. The design review process needs to be substantially complete prior to City Council approval.
10. Article 5.15.05.03: The gross floor area stated on the Site Layout Plan needs to be recalculated to include the floor area of both floors.

Please note that this letter signifies a partial review of the documents submitted on August 30, 2018 to determine eligibility for inclusion on the September 20, 2018 Planning Commission meeting. Further review comments/clarification may be forwarded upon completion of a full review.

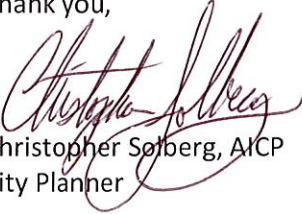
Additionally, It has been determined that this application, dependent on the resolution of the aforementioned issues, is ready for review by the Planning Commission. Please submit 14 full size copies of the PUD exhibits for the Planning Commission packet preparation by noon on Wednesday, September 12, 2018.



The next Planning Commission meeting is Thursday, September 20, 2018 at 7:00pm. Please have someone in attendance at the meeting to provide a short presentation of the project to the Planning Commission and to answer questions as necessary.

If you have any questions regarding these comments please feel free to contact me at any time.

Thank you,

A handwritten signature in dark ink, appearing to read "Christopher Solberg", written over the printed name and title.

Christopher Solberg, AICP  
City Planner

Attachement

cc: Ann Birch, Community Development Director  
John Kottmann, City Engineer  
File





# Sarpy County Map

Map Scale  
1 inch = 800 feet

## Legend

- Parcels
- Lots
- Road Centerlines
- Interstate
- Expressway
- Major Arterial
- Other Arterial
- Collector
- Ramp
- Local Street
- Unpaved Road
- Other
- Railroad
- County Boundary
- Lakes and Ponds
- Rivers and Streams
- PROPOSED CORNER LANDSCAPE
- FUTURE CORNER LANDSCAPE

*Disclaimer:* This data is for informational purposes only, and should not be substituted for a true titles search, property appraisal, survey, or for zoning district verification. Sarpy County and the Sarpy County GIS Coalition assume no legal responsibility for the information contained in this data.

AS SHOWN	4-26-07	ASB	JMK
DATE	4-26-07	ASB	JMK
BY	ASB	JMK	
REVIEWED BY			
REVISION			

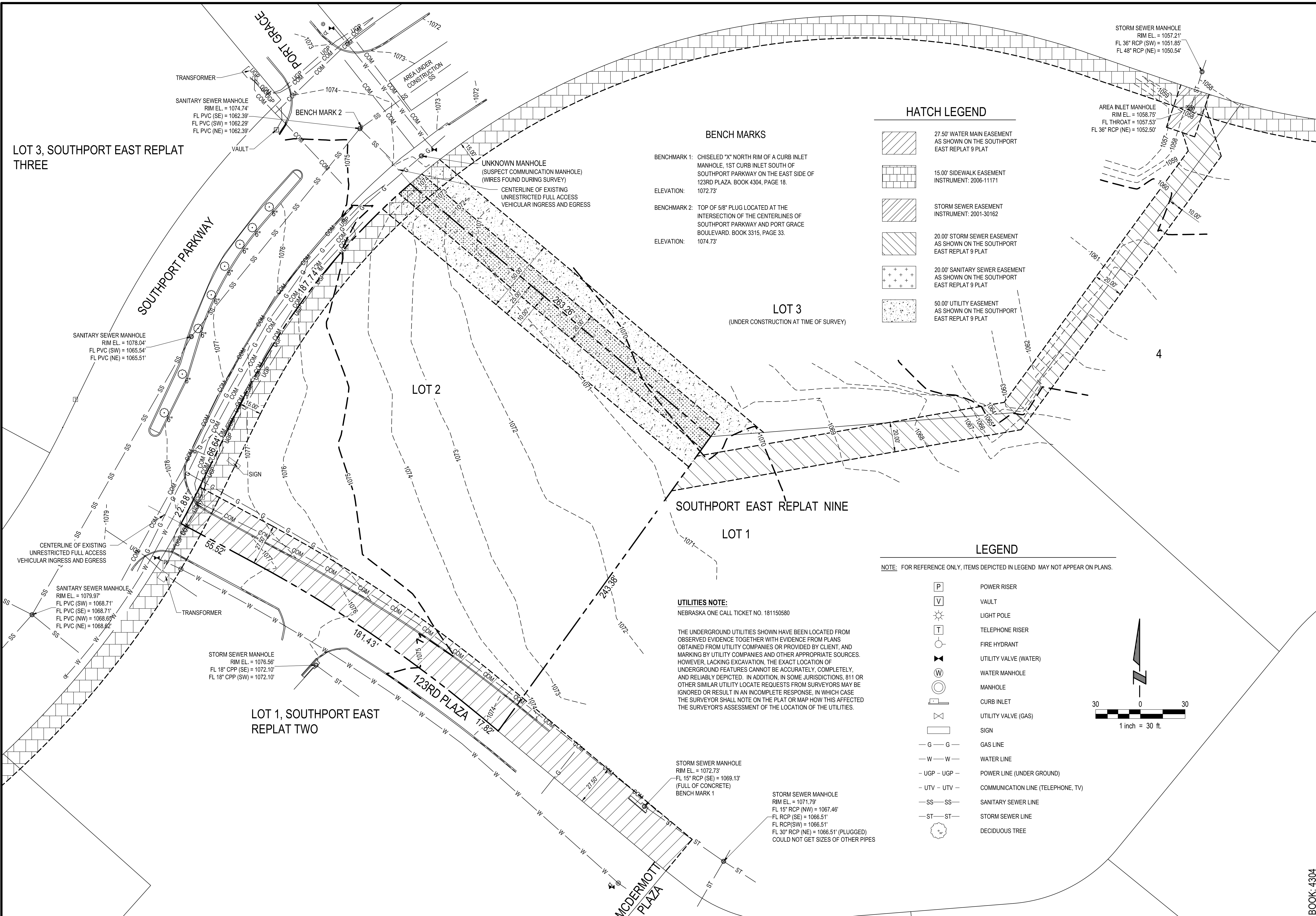
CITY OF LA VISTA COMMUNITY DEVELOPMENT - MISC. 2007

SOUTHPORT EAST & WEST

CORNER LANDSCAPE LOCATIONS

**2 THOMPSON, DRESSEN & DORNER, INC.**  
Consulting Engineers & Land Surveyors  
10835 OLD MILL ROAD OMAHA, NEBRASKA 68154  
PHONE 402.330.8860 FAX 402.330.9666 EMAIL TD2MAIL@TDCO.COM  
WEBSITE WWW.TDCO.COM





LOT 3, SOUTHPORT EAST REPLAT THREE

LOT 1, SOUTHPORT EAST REPLAT TWO

SOUTHPORT EAST REPLAT NINE

BENCH MARKS

BENCHMARK 1: CHISELED "X" NORTH RIM OF A CURB INLET MANHOLE, 1ST CURB INLET SOUTH OF SOUTHPORT PARKWAY ON THE EAST SIDE OF 123RD PLAZA. BOOK 4304, PAGE 18.  
ELEVATION: 1072.73'  
BENCHMARK 2: TOP OF 5/8" PLUG LOCATED AT THE INTERSECTION OF THE CENTERLINES OF SOUTHPORT PARKWAY AND PORT GRACE BOULEVARD. BOOK 3315, PAGE 33.  
ELEVATION: 1074.73'

HATCH LEGEND

- 27.50' WATER MAIN EASEMENT AS SHOWN ON THE SOUTHPORT EAST REPLAT 9 PLAT
- 15.00' SIDEWALK EASEMENT INSTRUMENT: 2006-11171
- STORM SEWER EASEMENT INSTRUMENT: 2001-30162
- 20.00' STORM SEWER EASEMENT AS SHOWN ON THE SOUTHPORT EAST REPLAT 9 PLAT
- 20.00' SANITARY SEWER EASEMENT AS SHOWN ON THE SOUTHPORT EAST REPLAT 9 PLAT
- 50.00' UTILITY EASEMENT AS SHOWN ON THE SOUTHPORT EAST REPLAT 9 PLAT

LEGEND

- NOTE: FOR REFERENCE ONLY, ITEMS DEPICTED IN LEGEND MAY NOT APPEAR ON PLANS.
- P POWER RISER
  - V VAULT
  - Light Pole
  - T TELEPHONE RISER
  - Fire Hydrant
  - Utility Valve (Water)
  - W WATER MANHOLE
  - Manhole
  - Curb Inlet
  - Utility Valve (Gas)
  - Sign
  - G - G - GAS LINE
  - W - W - WATER LINE
  - UGP - UGP - POWER LINE (UNDER GROUND)
  - UTV - UTV - COMMUNICATION LINE (TELEPHONE, TV)
  - SS - SS - SANITARY SEWER LINE
  - ST - ST - STORM SEWER LINE
  - Deciduous Tree

UTILITIES NOTE:

NEBRASKA ONE CALL TICKET NO. 181150580  
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM PLANS OBTAINED FROM UTILITY COMPANIES OR PROVIDED BY CLIENT, AND MARKING BY UTILITY COMPANIES AND OTHER APPROPRIATE SOURCES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOTE ON THE PLAT OR MAP HOW THIS AFFECTED THE SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES.

STORM SEWER MANHOLE  
RIM EL. = 1071.79'  
FL 15" RCP (NW) = 1067.46'  
FL RCP (SE) = 1066.51'  
FL RCP(SW) = 1066.51'  
FL 30" RCP (NE) = 1066.51' (PLUGGED)  
COULD NOT GET SIZES OF OTHER PIPES

BOOK: 4304

E & A CONSULTING GROUP, INC.

Engineering • Planning • Environmental & Field Services

E & A CONSULTING GROUP, INC.

Engineering Answers

LOT 2, SOUTHPORT EAST REPLAT 9

SARPY COUNTY, NEBRASKA

TOPOGRAPHIC SURVEY

Proj No: 2000.030.147

Date: 04/25/2018

Designed By: RLS

Drawn By: RLS

Scale: 1"=30'

Sheet: 1 of 1

Revisions

No	Date	Description
1	04/25/2018	

4/26/2018 11:22 AM

K:\Projects\2000\030\147\Survey\Topo\TPOP-LOT 2 REPLAT 9.dwg

Richard Stain

10909 Mill Valley Road, Suite 100 • Omaha, NE 68154

Phone: 402.895.4700 • Fax: 402.895.9399

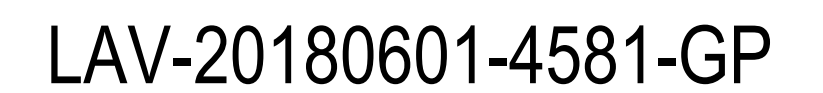
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1. The Contractor Shall have Complete Responsibility For Damage Caused by Blowing Dust from his Construction Activities.
2. Topsoil and Vegetation Shall be Stripped to a Depth of 4" to 6" in Areas to be Graded.
3. Topsoil Obtained from Stripping Operations Shall be Stockpiled in an Approved Location and Re-spread on Areas Finish Graded to Receive Topsoil.
4. Rubble and Waste Materials from site Clearing and Demolition Shall be Removed From the Site and Lawfully Disposed, Salvaged, or Recycled. Where Fence Posts are Removed, their Concrete Bases Shall be Excavated and Completely Removed. Waste Materials Shall not be Buried on Site.
5. All Fill and Backfill Shall be Low Plasticity, Cohesive Soil that are Free of Organic Material or Debris. Structural Fill Materials Shall have a Liquid Limit Less than 45 and a Plasticity Index Less Than 20. Excavated Site Soils Will Generally be Suitable for Use as Structural Fill..
6. Fill Compaction Requirements:
  - 6.1. Footing Foundations.
    - 6.1.1. Areas to Receive Fill Shall be Scarified to a Minimum Depth of 6". Fill Shall be Placed in Lifts Not to Exceed 8" in Loose Thickness. Structural Fill Shall be Compacted to a Minimum of 95% of the Maximum Dry Density (ASTM D-698, Standard Proctor) at a Moisture Content Between -3 and +4% of Optimum.
  - 6.2. All Other Locations
    - 6.2.1. Areas to Receive Fill Shall be Scarified to a Minimum Depth of 6". Fill Shall be Placed in Lifts Not to Exceed 8" in Loose Thickness. Structural Fill Shall Be Compacted to a Minimum of 95% of the Maximum Dry Density (ASTM D-698, Standard Proctor) at a Moisture Content Between -3 and +4% of Optimum.
7. Surfaces to receive fill shall be scarified and recompacted to all new fill to bond to the existing soils. Slopes steeper than 5H:1V shall be benched before placing fill.
8. PCC Pavements: Prepare Subgrade Below Pavements Prior to Paving Operations by Compacting Upper 9" a Minimum of 98% of the Maximum Dry Density (ASTM D 698 Standard Proctor) at a Moisture Content Between -3 and +4% of Optimum. Subgrade Preparation shall Extend a Minimum of 2 feet Beyond the Back of Curb.
9. For Sidewalks, the Upper 6" of Subgrade shall be Compacted to a Minimum of 95% of the Maximum Dry Density (ASTM D-698, Standard Proctor) at a Moisture Content Between -3 and +4% of Optimum. Sidewalk Subgrade Shall Extend at Least 6" Laterally Beyond the Edge of the New Sidewalk.
10. Backfill Soils Around Foundations, Basement Walls and Retaining Walls shall be Compacted to a Minimum of 95% of the Maximum Dry Density (ASTM D-698, Standard Proctor) at a Moisture Content Between -3% and +4% of Optimum. Granular Backfill shall Not be used Around Foundation Elements.
11. Backfill Soils in Utility Trenches shall be Compacted to a Minimum of 95% of the Maximum Dry Density at a Moisture Content Between -3% and +4% of Optimum (ASTM D698, Standard Proctor). Lift Thickness Shall be Appropriately Matched to the Equipment Used. Granular Backfill shall not be Used in Exterior Trenches. Backfill Placed Within a Zone of Subgrade Preparation Shall be Compacted to the Requirements of the Subgrade for the full Depth of the Backfill
12. Imported Material, if Required, shall be Free of Organic Matter and Debris, and shall be a Clean, Inorganic Silt or Lean Clay with a Liquid Limit Less than 45 and a Plasticity Index Less than 20. Borrow Material shall Not Contain any Foreign Material with a Dimension Greater than 3".
13. Any Excess Material shall be Disposed of Off-Site at a Location Determined by the Contractor.
14. Unless Noted, all Spot Elevations in paved areas are Match Existing (ME), Top of Slab (P), Sidewalk (SW) or Gutter/Flow Line (FL). Add 0.5' to FL Determine Top of Curb Elevations.
15. The Subgrade of the Floor Slab Shall be Reworked and Compacted as Structural Fill Prior to Concrete Placement. Upper 6 Inches Shall be Compacted to a Minimum of 95% of the Maximum Dry Density as a Moisture Content Between -3% and +4% of Optimum (ASTM D698, Standard Proctor).
16. Exposed Project Site Soils Shall be Stabilized as Shown in the Sediment and Erosion Control Plan and Landscaping Plan.
17. A Geotechnical Exploration Report has been prepared for this Project and is incorporated herein by reference. All recommendations of said report shall be followed in all Phases of Construction and shall control.
18. Geotechnical engineer shall be called upon to inspect the base and walls of the footing excavations prior to reinforcement and concrete placement. Unstable or unsuitable soil conditions will require over excavation, moisture conditioning, and recompaction to desired grade. Footing excavations may be extended below unsuitable material if suitable material is present.



Existing Contours

Proposed Contours

Proposed Spot Elevations

Inverted Crown Line

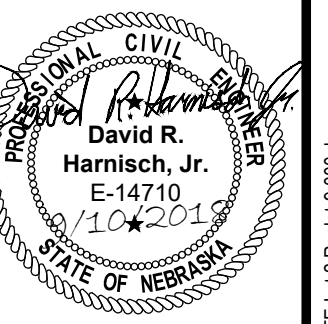
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**E & A CONSULTING GROUP, INC.**  
*Engineering Answers*

LOT 2, SOUTHWEST EASI, REPLA 19  
123RD PLZ & SOUTHPORT PKY.  
LA VISTA, NEBRASKA

## GRADING PLAN



Date:	6/11/2018	Date		Description
Designed By:	DH	Date		Description
Drawn By:	BJW			
Scale:	NA			
Sheet:	3 of 11			

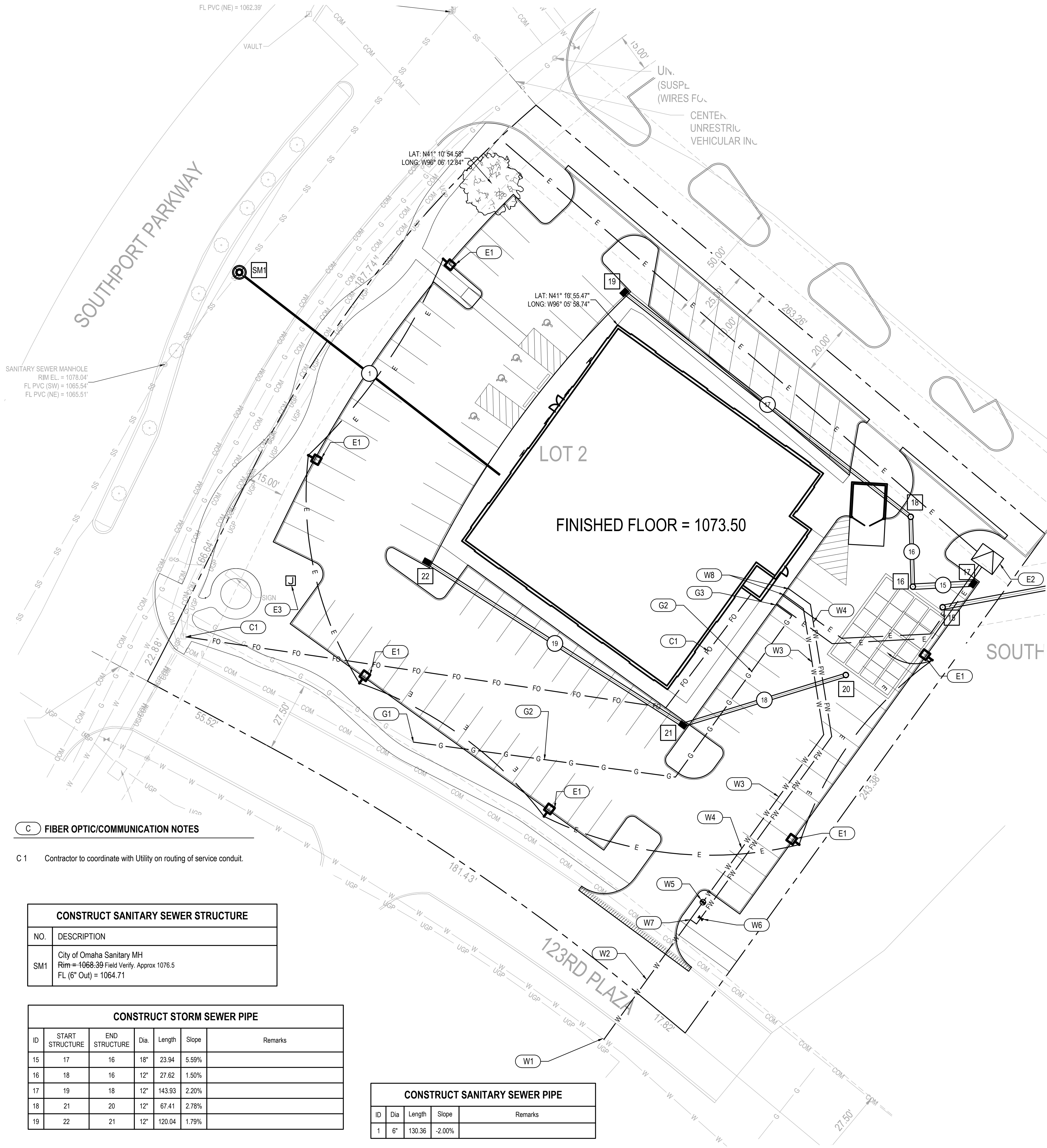
David Harnisch  
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1. This work shall be in accordance with the Metropolitan Utilities District's (hereinafter referred to as District) "Water Rules and Regulations," current edition, the special and technical provisions, and these plans for the referenced project.
2. Water mains and service lines shall have a minimum cover of five feet and shall be installed in accordance with the water rules and regulations.
3. The horizontal distance between the sewer and water lines shall be 10 feet min. and the vertical distance shall be two feet min. The sanitary sewer pipe material shall be ductile iron pipe 10 feet each side of the water main when the vertical distance is less than 2 feet.
4. Contractor shall maintain all valves at connection points in the fully closed position until chlorination testing and approval of proposed water lines are complete, except that said valves may be opened to fill lines for use in the chlorination process.
5. Type "K" copper water service of the sizes and quantities shown, shall be constructed to all buildings shown of this development in accordance with the specifications and details shown on the plans. The contractor shall record tap and valve locations of each water service installed and provide such records to the owner upon completion of construction.
6. Contractor shall field verify all potential utility line crossing conflicts. Contractor shall notify engineer of conflicts and adjust horizontal and vertical alignments of proposed utilities only at the direction of the engineer.
7. Remove and replace full pavement panels where necessary to construct new water main tap of main and for fire hydrant construction.

1. This work shall be in accordance with the Metropolitan Utilities District's (hereinafter referred to as District) "Natural Gas Rules and Regulations," current edition, the special and technical provisions, and these plans for the referenced project.
2. The design of the gas service, including size, type, and line and grade will be determined by the District.
3. The District shall install all gas services. Prior to installation, the owner, contractor or applicant shall establish the finished landscaping grade. If the District relocates a gas service due to a change in the finished landscaping grade, the owner shall pay the cost of the relocation. No other pipe, conduit or electrical conductor shall be installed in the same trench as the gas service pipe or within 12 inches of the gas service pipe.


1. Sanitary Sewer Service Materials: The following storm drain pipe materials may be used. The 6 inch (Solid Wall) sanitary sewer pipe may be ABS (SDR 26), PVC (SDR 26 or Schedule 40), or Vitrified Clay Pipe (VCP).
2. Storm Drain Pipe Materials. The following storm drain pipe materials may be used:
3. Reinforced Concrete Pipe (RCP), conforming to ASTM C76 (Class III unless otherwise indicated). Materials and installation shall conform to City of Omaha Standard Specifications. RCP pipe shall be manufactured by an American Concrete Pipe Association QCast Certified Plant. All RCP pipe shall have a QCast stamp.
4. PVC pipe with smooth interior and corrugated exterior, such as Contech A-2000, or equal. Pipe and fittings shall conform to ASTM F949. Installation shall conform to ASTM D 2321. Gasketed joints shall be used, and shall show no leakage when tested in accordance with ASTM D 3212. All joints shall be water-tight.
5. PVC pipe, SDR 35, in accordance with ASTM D 3034. Installation shall conform to ASTM D 2321. Gasketed joints shall be used, and shall show no leakage when tested in accordance with ASTM D 3212. All joints shall be water-tight.
6. High Density Polyethylene (HDPE) pipe, with smooth interior and corrugated exterior, such as ADS N-12, Hancor HI-Q, or equal. Pipe and fittings shall conform to AASHTO M-252 and M-294. Installation shall conform to ASTM D 2321. Joints shall be made with split couplings, corrugated to engage the pipe corrugations, and shall engage a minimum of 2 corrugations on each side of the pipe joint. A neoprene gasket, per the manufacturer's recommendations, shall be used for all joints to ensure a tight-connection. Class IV soils shall not be used for bedding or backfill of N-12 pipe.
7. Curb inlets and grate inlets (types and materials) shall be as identified in the "Construct Storm Sewer Structure" table.
8. Any referenced City of Omaha Standard Plates are further identified in the General Notes for Construction.



CONSTRUCT SANITARY SEWER STRUCTURE	
NO.	DESCRIPTION
SM1	City of Omaha Sanitary MH Rim = <del>1068.39</del> Field Verify. Approx 1076.5 FL (6" Out) = 1064.71

CONSTRUCT STORM SEWER PIPE						
ID	START STRUCTURE	END STRUCTURE	Dia.	Length	Slope	Remarks
15	17	16	18"	23.94	5.55%	
16	18	16	12"	27.62	1.50%	
17	19	18	12"	143.93	2.20%	
18	21	20	12"	67.41	2.78%	
19	22	21	12"	120.04	1.79%	

CONSTRUCT SANITARY SEWER PIPE				
ID	Dia	Length	Slope	Remarks
1	6"	130.36	-2.00%	




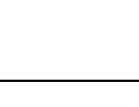
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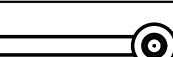
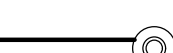

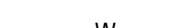







1 inch = 20 ft.

**LEGEND**

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	Storm Sewer Pipe Network
	Sanitary Sewer Pipe Network
	Gas Service
	Water Service
	Fire Water Service
	Electrical Service
	Fiber Optic/Communication Service

**E ELECTRICAL REFERENCE NOTES**

---

E 1 Proposed Light Pole, See Electrical Plans for Details.

E 2 Proposed Transformer Location, See Electrical Plans for Details.

E 3 6 1/2" X 6 1/2" X 6" Quazite PVC Enclosure Assembly or Approved Equal for Future Monument Sign.

\*All Electrical Lines shown are schematic in nature and are shown for reference only. Electrical Plans shall control.

**W WATER REFERENCE NOTES**

---

W 1 Tap Existing Water Main with X" Tapping Sleeve and Valve. Coordinate Tap with Local Utility.

W 2 Construct 85 LF of X" Water Service Line in Accordance with Local Utility Specifications.

W 3 Construct X LF of X" Water Service Line in Accordance with Local Utility Specifications.

W 4 Construct X LF of X" Fire Water Service Line in Accordance with Local Utility Specifications.

W 5 Furnish and Install X" Curb Stop Valve

W 6 Furnish and Install Post Indicator Valve (PIV).

W 7 Furnish and Install X"xX"xX" Water Tee

W 8 See Mechanical/ Plumbing Plans for Continuation.

**G GAS REFERENCE NOTES**

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CONSTRUCT STORM SEWER STRUCTURE	
NO.	DESCRIPTION
16	30" Nyloplast Drain Basin Inlet Structure for MC-3500 Chamber System See PCSMP Plan for Details, Rim = 1071.18 FL (12" In) = 1063.10 FL (18" In) = 1063.10
17	24" Nyloplast Drain Basin with 2'x3' Curb and Grate Inlet Top, Rim = 1070.62 FL (18" Out) = 1064.44
18	30" Nyloplast Drain Basin With Standard Grate, Rim = 1071.60 FL (12" In) = 1063.51 FL (12" Out) = 1063.51
19	24" Nyloplast Drain Basin with 2'x3' Curb and Grate Inlet Top, Rim = 1072.40 FL (12" Out) = 1066.68
20	30" Nyloplast Drain Basin Inlet Structure for MC-3500 Chamber System See PCSMP Plan for Details, Rim = 1071.23 FL (12" In) = 1063.10
21	24" Nyloplast Drain Basin with 2'x3' Curb and Grate Inlet Top, Rim = 1072.07 FL (12" In) = 1064.98 FL (12" Out) = 1064.98
22	24" Nyloplast Drain Basin with 2'x3' Curb and Grate Inlet Top, Rim = 1072.77 FL (12" Out) = 1067.12

	<b>UTILITY PLAN</b>		<b>LOT 2, SOUTHWEST EAST, REPLAT 9</b> 123RD PLZ & SOUTHPORT PKY. LA VISTA, NEBRASKA	 <b>E &amp; A CONSULTING GROUP, INC.</b> <i>Engineering Answers</i>	<b>E &amp; A CONSULTING GROUP, INC.</b> Engineering • Planning • Environmental & Field Services  10905 Mill Valley Road, Suite 100 • Omaha, NE 68154 Phone: 402.835.4700 • Fax: 402.835.3539 <a href="http://www.eacsg.com">www.eacsg.com</a>
	Revisions				
	Date	Description			
	6/11/2018	DH			
	Designed By:	BWJ			
	Scale:	NA			
Sheet: 4 of 11					



GENERAL WATER NOTES:

- This work shall be in accordance with the Metropolitan Utilities District's (hereinafter referred to as District) "Water Rules and Regulations," current edition, the special and technical provisions, and these plans for the referenced project.
- Water mains and service lines shall have a minimum cover of five feet and shall be installed in accordance with the water rules and regulations.
- The horizontal distance between the sewer and water lines shall be 10 feet min. and the vertical distance shall be two feet min. The sanitary sewer pipe material shall be ductile iron pipe 10 feet each side of the water main when the vertical distance is less than 2 feet.
- Contractor shall maintain all valves at connection points in the fully closed position until chlorination testing and approval of proposed water lines are complete, except that said valves may be opened to fill lines for use in the chlorination process.
- Type "K" copper water service of the sizes and quantities shown, shall be constructed to all buildings shown of this development in accordance with the specifications and details shown on the plans. The contractor shall record tap and valve locations of each water service installed and provide such records to the owner upon completion of construction.
- Contractor shall field verify all potential utility line crossing conflicts. Contractor shall notify engineer of conflicts and adjust horizontal and vertical alignments of proposed utilities only at the direction of the engineer.
- Remove and replace full pavement panels where necessary to construct new water main tap of main and for fire hydrant construction.

GENERAL GAS NOTES:

- This work shall be in accordance with the Metropolitan Utilities District's (hereinafter referred to as District) "Natural Gas Rules and Regulations," current edition, the special and technical provisions, and these plans for the referenced project.
- The design of the gas service, including size, type, and line and grade will be determined by the District.
- The District shall install all gas services. Prior to installation, the owner, contractor or applicant shall establish the finished landscaping grade. If the District relocates a gas service due to a change in the finished landscaping grade, the owner shall pay the cost of the relocation. No other pipe, conduit or electrical conductor shall be installed in the same trench as the gas service pipe or within 12 inches of the gas service pipe.

GENERAL NOTE FOR SANITARY AND STORM SEWER CONSTRUCTION

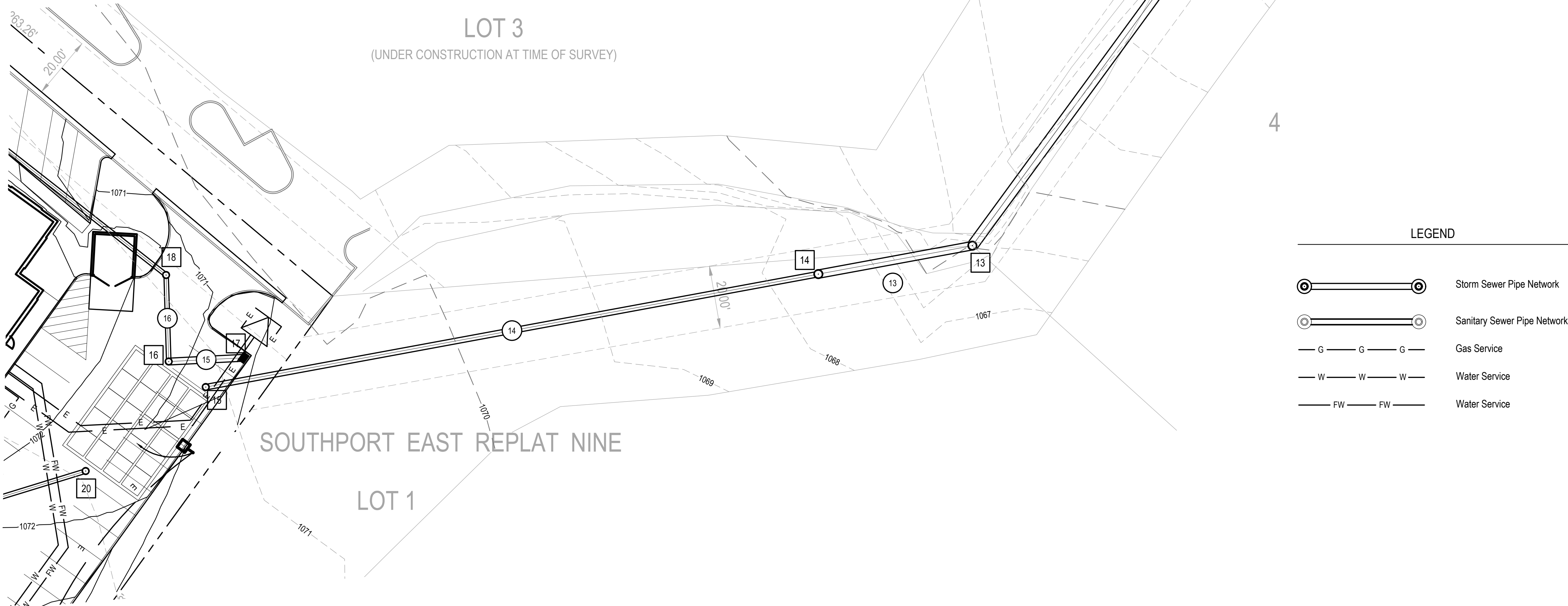
- Sanitary Sewer Service Materials: The following storm drain pipe materials may be used. The 6 inch (Solid Wall) sanitary sewer pipe may be ABS (SDR 26), PVC (SDR 26 or Schedule 40), or Vitrified Clay Pipe (VCP).
- Storm Drain Pipe Materials. The following storm drain pipe materials may be used:
- Reinforced Concrete Pipe (RCP), conforming to ASTM C76 (Class III unless otherwise indicated). Materials and installation shall conform to City of Omaha Standard Specifications. RCP pipe shall by manufactured by an American Concrete Pipe Association QCast Certified Plant. All RCP pipe shall have a QCast stamp.
- PVC pipe with smooth interior and corrugated exterior, such as Contech A-2000, or equal. Pipe and fittings shall conform to ASTM F949. Installation shall conform to ASTM D 2321. Gasketed joints shall be used, and shall show no leakage when tested in accordance with ASTM D 3212. All joints shall be water-tight.
- PVC pipe, SDR 35, in accordance with ASTM D 3034. Installation shall conform to ASTM D 2321. Gasketed joints shall be used, and shall show no leakage when tested in accordance with ASTM D 3212. All joints shall be water-tight.
- High Density Polyethylene (HDPE) pipe, with smooth interior and corrugated exterior, such as ADS N-12, Hancor HI-Q, or equal. Pipe and fittings shall conform to AASHTO M-252 and M-294. Installation shall conform to ASTM D 2321. Joints shall be made with split couplings, corrugated to engage the pipe corrugations, and shall engage a minimum of 2 corrugations on each side of the pipe joint. A neoprene gasket, per the manufacturer's recommendations, shall be used for all joints to ensure a soil-tight connection. Class IV soils shall not be used for bedding or backfill of N-12 pipe.
- Curb inlets and grate inlets (types and materials) shall be as identified in the "Construct Storm Drain Structure" table.
- Any referenced City of Omaha Standard Plates are further identified in the General Notes for Construction.

CONSTRUCT STORM SEWER PIPE						
ID	START STRUCTURE	END STRUCTURE	Dia.	Length	Slope	Remarks
11	12	11	30"	30.78	2.44%	
12	13	12	30"	216.32	2.04%	
13	14	13	24"	60.00	2.14%	
14	15	14	15"	198.77	2.14%	

See Sheet 4 for Continuation of Storm Drain Network

CONSTRUCT STORM SEWER STRUCTURE	
NO.	DESCRIPTION
11	Existing Area Inlet Field Verify Size, Invert, and Location, Rim = 1058.75 FL (30" In) = 1052.50
12	30" Nyloplast Drain Basin With Solid Cover, Rim = 1058.70 FL (30" In) = 1053.25 FL (30" Out) = 1053.25
13	30" Nyloplast Drain Basin With Solid Cover, Rim = 1064.63 FL (24" In) = 1057.67 FL (30" Out) = 1057.67
14	30" Nyloplast Drain Basin With Solid Cover, Rim = 1061.07 FL (15" In) = 1058.74 FL (24" Out) = 1058.74
15	30" Nyloplast Drain Basin Outlet Structure for MC-3500 Chamber System See PCSMP Plan for Details, Rim = 1070.77 FL (15" Out) = 1063.00

See Sheet 4 for Continuation of Storm Drain Network



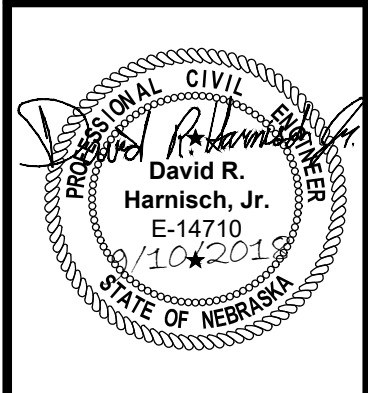
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LOT 2, SOUTHPORT EAST, REPLAT 9  
123RD PLZ & SOUTHPORT PKY.  
LA VISTA, NEBRASKA

OUTFALL SEWER



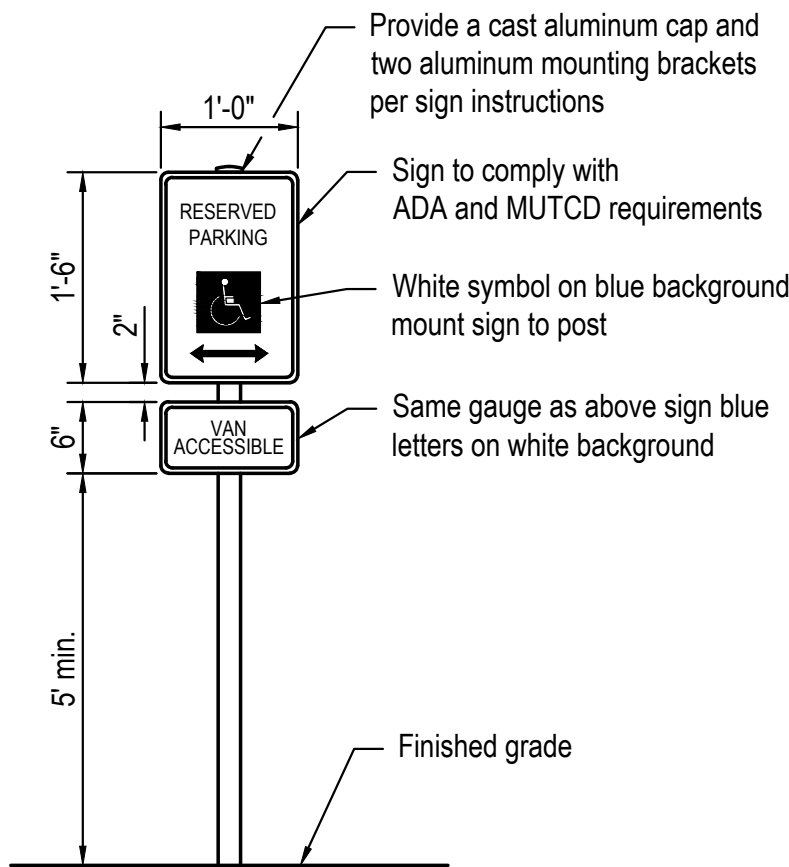
Revisions		Revisions	
Date	Description	Date	Description
6/11/2018	DH		
	BJW		
	NA		
Sheet:	5	of	11

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GENERAL SITE CONSTRUCTION NOTES

- The City of Omaha Standard Specifications for Public Works Construction, 2014 and any current revisions or amendments thereto and the Special Provisions for this Project shall apply and the Contractor shall perform in accord therewith.
- The Contractor shall check with the Owner for City approval of the project before starting work.
- Utilities are shown as a convenience for the Contractor. The locations of all aerial and underground utility facilities may not be indicated in these plans. Underground utilities, whether indicated or not, will be located and flagged by the utility companies at the Contractor's request. No excavation will be permitted in the area of the underground utilities until all facilities have been located and identified to the satisfaction of all parties and then only with extreme care to avoid any possibility of damages to the facilities.
- The Contractor is hereby referred to Subsection 100.03 of the Standard Specifications relative to cleaning of the work area. The final estimate will not be processed until the Contractor has satisfactorily cleaned and flushed the pavement slab of all rubbish, excess material, mud and debris, and all parts of the work area have been left in a neat and presentable manner.
- Erosion control improvements shall be constructed on this site, including inlet protection, silt fencing and a construction entrance. The Contractor shall be responsible for prompt reconstruction of any erosion control improvements disturbed by his operations. All disturbed erosion control improvements shall be fully reconstructed at the end of each working day prior to leaving the site. Separate payment will not be made for reconstruction of any erosion control improvements. Positive drainage in all work areas shall be maintained in the condition the construction site was in prior to Contractors arrival.
- The Portland Cement Concrete for the pavement slab shall be "L65", in accordance with the Standard Specifications.
- Portland Cement Concrete mix design for sidewalks shall be City of Omaha Type "L6" or "SG65" mix.
- Non-colored concrete pavement shall be cured using a white pigmented liquid membrane-forming curing compound that has been approved by the State of Nebraska Department of Roads. The minimum rate of application shall be 200 sq. ft. per gal. if a mechanical-powered sprayer is used and 100 sq. ft. per gal. if a hand powered sprayer is used.
- Water reducing admixtures shall be added to all hand-placed and finished concrete.
- A diamond edge saw blade shall be used for cutting all required contraction and longitudinal pavement joints.
- Concrete pavement shall be jointed in maximum 12.5' x 15' panels and shall be kept as square as possible. Joints shall be perpendicular to edges and radiuses, and shall not form angles less than 45 degrees or over 225 degrees.
- 6' sidewalk shall be jointed in 6'x6' panels, 5' sidewalk shall be jointed in 5'x5' panels.
- The 6 inch (Solid Wall) sanitary sewer pipe may be ABS (SDR 23.5), PVC (SDR 23.5), or VCP.
- The following storm sewer pipe materials may be used:
  - Reinforced Concrete Pipe (RCP), conforming to ASTM C76 (Class III unless otherwise indicated). Materials and installation shall conform to City of Omaha Standard Specifications.
  - PVC pipe with smooth interior and corrugated exterior, such as Contech A-2000, or equal. Pipe and fittings shall conform to ASTM F949. Installation shall conform to ASTM D 2321. Gasketed joints shall be used, and shall show no leakage when tested in accordance with ASTM D 3212.
  - PVC pipe, SDR -35, in accordance with ASTM D 3034. Installation shall conform to ASTM D 2321. Gasketed joints shall be used, and shall show no leakage when tested in accordance with ASTM D 3212.
  - Polyethylene pipe, with smooth interior and corrugated exterior, such as ADS N-12, Hancor HI-Q, or equal. Pipe and fittings shall conform to AASHTO M-252 and M-294. Installation shall conform to ASTM D 2321. Joints shall be made with split couplings, corrugated to engage the pipe corrugations, and shall engage a minimum of 2 corrugations on each side of the pipe joint. A neoprene gasket, per the manufacturer's recommendations, shall be used for all joints to ensure a soil-tight connection. Class IV soils shall not be used for bedding or backfill of N-12 pipe.
- Backfill soils in utility trenches, around foundations, basement walls, and retaining walls shall be compacted to a minimum of 95% of the maximum dry density (ASTM D-698, Standard Proctor) at a moisture content between -3% and +4% of the optimum. Lift thickness shall be appropriately matched to the type of compaction equipment used.
- Asphalt pavement surface course shall be City of Omaha Type "FMR"
- Maximum asphalt pavement lift thickness shall be 3"
- Curb inlets shall be City of Omaha Type IV curb inlet or a Nyloplast curb inlet with 2' x 3' diagonal flow grate, or approved equal.
- Grate inlet shall be a standard grate inlet as shown on the detail or a Nyloplast grate inlet with 2' x 3' rectangular grate, or approved equal.



**HANDICAP PARKING SIGN**  
NOT TO SCALE

**HANDICAP PARKING LOT STENCIL DETAIL**  
NOT TO SCALE

NOTES

- Paint color by surface:

Pavement Surface	Paint Color
Concrete	Yellow
Bituminous	White
- Paint shall conform to Federal Specification: TT-P-115 (2 Coats)

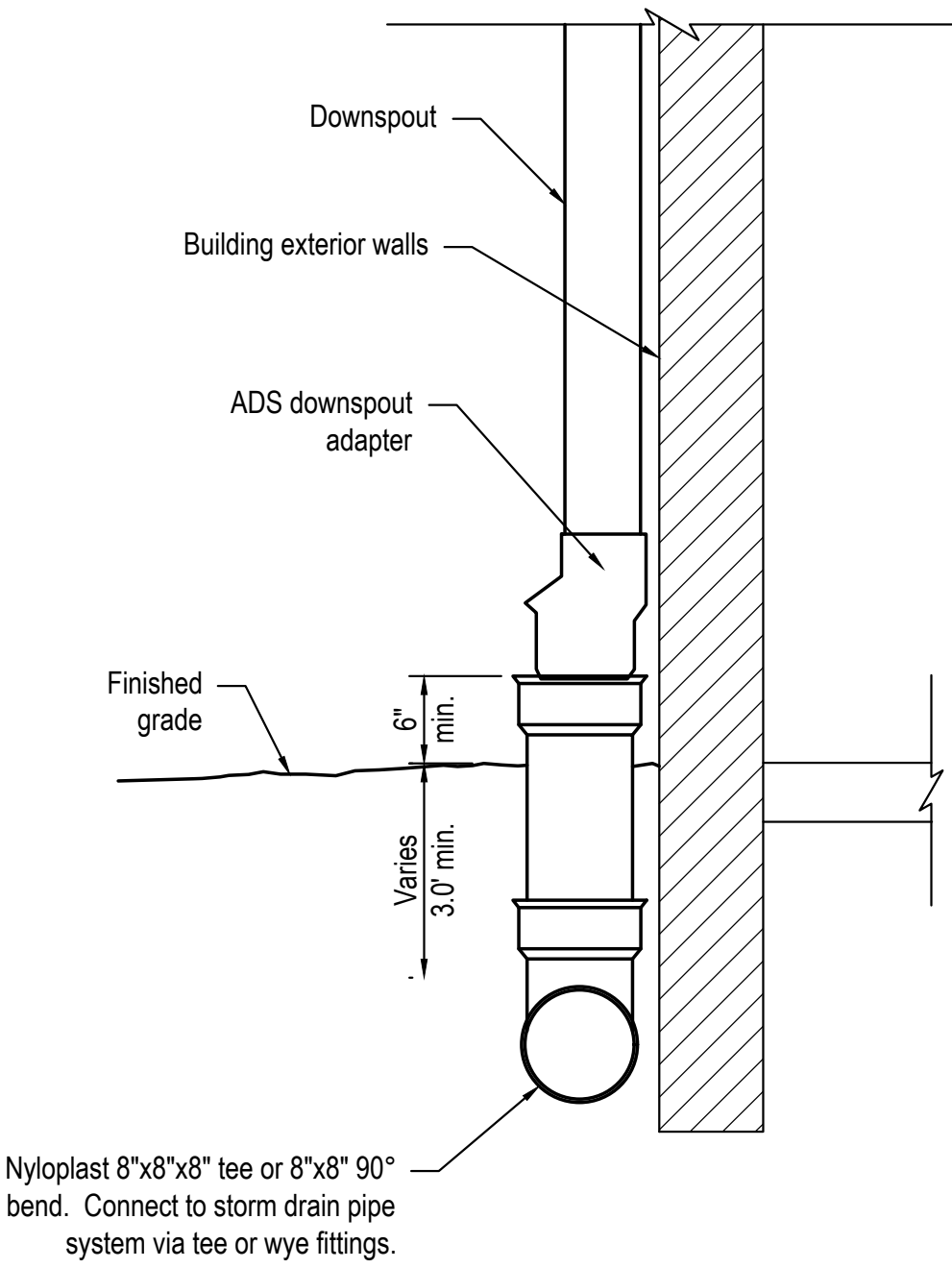
GENERAL SITE CONSTRUCTION NOTES

Standard Plates are available from the City of Omaha Public Works Department, 1819 Farnam St, Suite 600, Omaha NE. 68183, PH 402.444.5220. Plates may also be downloaded via the internet from the City of Omaha Web Site at: <https://publicworks.cityofomaha.org/contractors-consultants2/contractors/standard-plates-curb-ramps-and-specifications/15-contractors-consultants/678-2014-standard-plate-list>

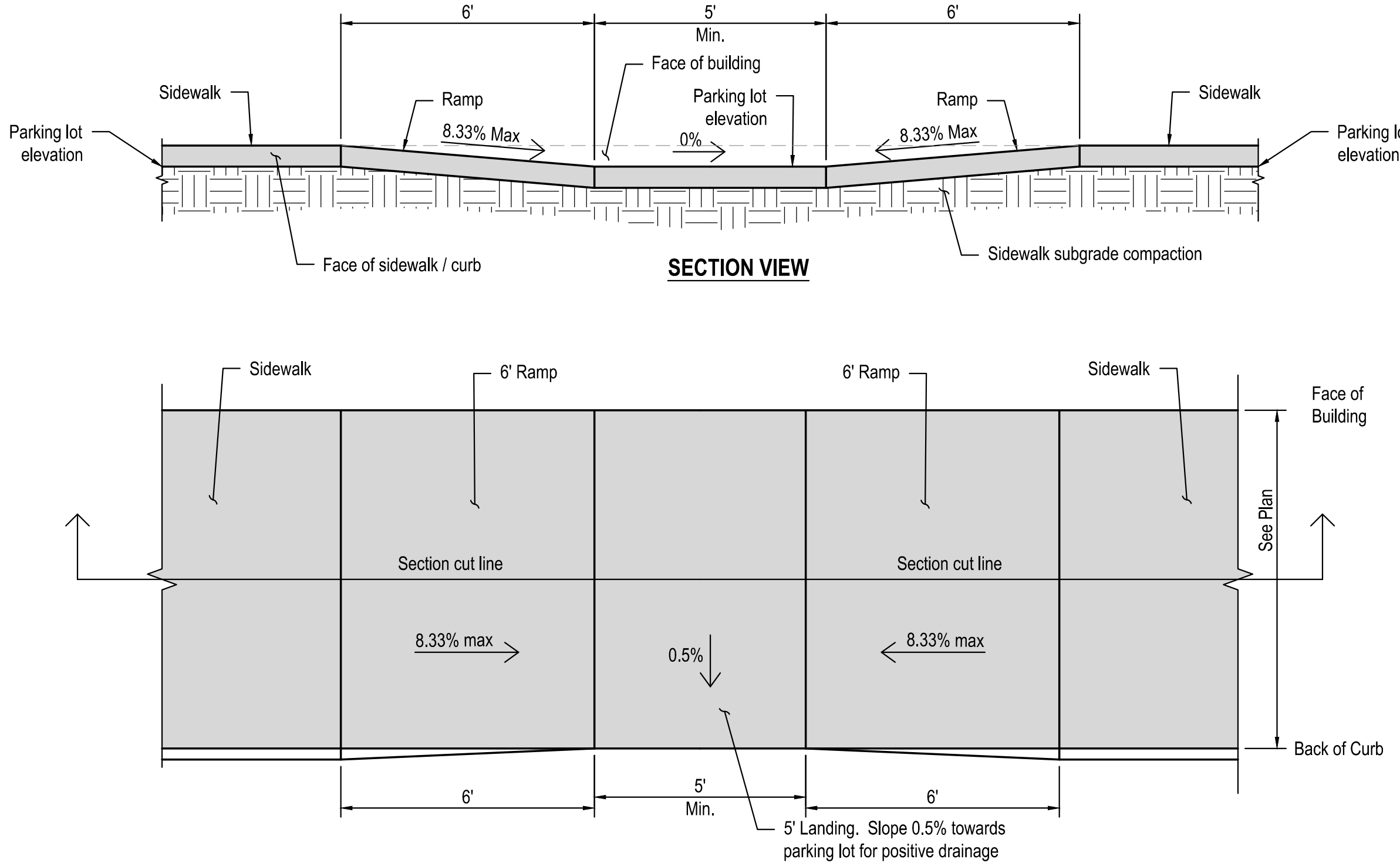
20. The following Standard Plates on file at the City of Omaha Public Works Department shall govern:

ITEMS	STANDARD PLATE	REVISION DATE
Concrete Pavement Joint Details	500-50	12/10/2013
Concrete Curb Details	500-52	12/10/2013
Misc. Concrete Pavement Details	500-60	6/3/2015
Concrete Curb Ramp Details	500-82 (1-4)	12/10/2013
Concrete Driveway Details	500-70	12/10/2013
Sidewalk Construction Details	500-02	6/3/2015
Sidewalk Location Standard	500-03	12/10/2013
Concrete Collar - Sewer Tap	700-23	12/10/2013
Pipe Bedding w/Aggregate Detail	700-23	12/10/2013
Sewer Bedding Detail	700-01	12/10/2013
Reinforced Concrete Pipe Couplers	700-83	12/10/2013
Cast Iron Manhole Rings, Covers, Manhole Steps	700-90 ( 1 & 2)	12/10/2013
Manhole Detail	700-40	12/10/2013
Curb Inlet - Type IV	700-21	12/10/2013
Area Inlet - Type I	700-17	12/10/2013

Standard Plates are available from the City of Omaha Public Works Department, 1819 Farnam St, Suite 600, Omaha NE. 68183, PH 402.444.5220. Plates may also be downloaded via the internet from the City of Omaha Web Site at: <https://publicworks.cityofomaha.org/contractors-consultants2/contractors/standard-plates-curb-ramps-and-specifications/15-contractors-consultants/678-2014-standard-plate-list>



**TYPICAL ROOF DRAIN CONNECTION**  
NOT TO SCALE



**IN-LINE ADA CURB RAMP**  
NOT TO SCALE

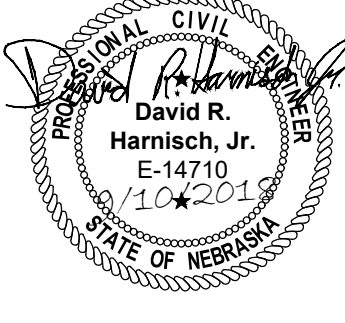
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LOT 2, SOUTHWEST EAST, REPLAT 9  
123RD PLZ & SOUTHPORT PKY.  
LA VISTA, NEBRASKA

NOTES AND DETAILS

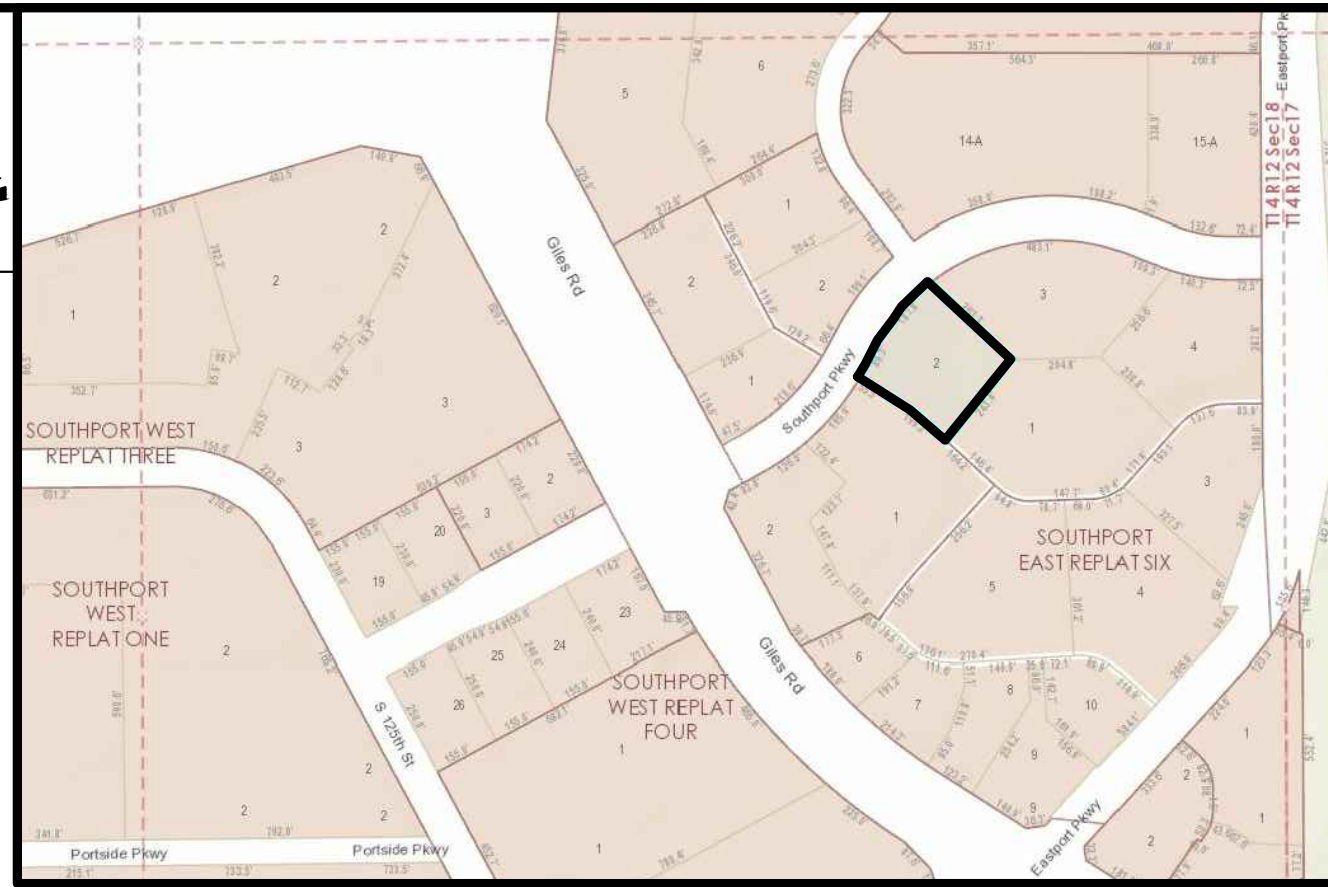


Revisions	Description	Date	Description	Date
1	Revised	6/11/2018	DH	
2	Revised	6/11/2018	BJW	
3	Revised	6/11/2018	NA	
4	Revised	6/11/2018	NA	
5	Revised	6/11/2018	NA	
6	Revised	6/11/2018	NA	
7	Revised	6/11/2018	NA	
8	Revised	6/11/2018	NA	
9	Revised	6/11/2018	NA	
10	Revised	6/11/2018	NA	
11	Revised	6/11/2018	NA	
12	Revised	6/11/2018	NA	
13	Revised	6/11/2018	NA	
14	Revised	6/11/2018	NA	
15	Revised	6/11/2018	NA	
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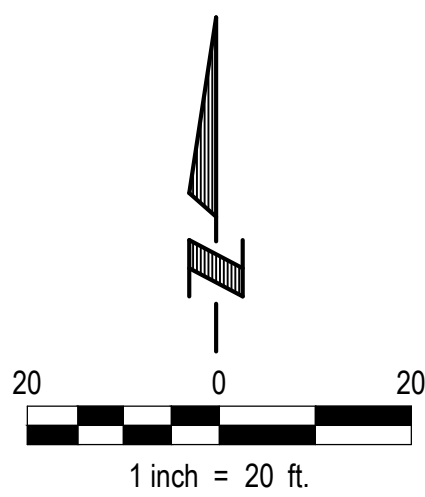




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VICINITY MAP



- LEGEND
- SF SILT FENCE
  - AREAS TO BE FILLED

**E SEDIMENT & EROSION CONTROL REFERENCE NOTES**

- CW1 Furnish and Install Concrete Washout Area. Use Outpak Washout or Engineer Approved Equal. See Detail on This Sheet.
- CE1 Construction Entrance
- SF1 Install Silt Fence in 100' Sections (max. length) with J-Hook Ends
- SF2 Install Silt Fence in 100' Sections (max. length) with J-Hook Ends
- IP1 Furnish and Install Inlet Protection.\*
- IP2 Furnish and Install Inlet Protection.\*
- IP3 Furnish and Install Inlet Protection.\*
- IP4 Furnish and Install Inlet Protection.\*

\*Install Area Inlet Protection on Additional Inlets as Necessary.

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Engineering Answers

LOT 2, SOUTHPORT EAST, REPLAT 9

123RD PLZ & SOUTHPORT PKY.

LA VISTA, NEBRASKA

STORMWATER

POLLUTION PREVENTION

PLAN

David R. Harnisch, Jr.  
E-14710  
2016-2021  
STATE OF NEBRASKA

Revisions	
Date	Description
6/11/2018	DH
	BJW
	NA

Proj No: P2000.030.147

Date: 6/11/2018

Designed By: DH

Drawn By: BJW

Scale: NA

Sheet: 7 of 11

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LAV-20180601-4581-T



MAINTENANCE SCHEDULE:

1.

The following Maintenance Schedule has been provided. The INSPECTOR must perform the Inspections. The OPERATOR/CONTRACTOR must perform all needed maintenance. Furthermore, all erosion control features requiring maintenance may not be listed below. The OPERATOR/CONTRACTOR and INSPECTOR must perform their respective duties on all BMP's that are not listed below as well.
2.

Construction Entrance - The entrance shall be maintained in a condition which will prevent tracking or flow of sediment onto public rights-of-way. This may require periodic top dressing with additional stone or the washing and reworking of existing stone as conditions demand and repair and/or cleanout of any structures used to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately. The use of water trucks to remove materials dropped, washed, or tracked onto roadways will not be permitted under any circumstances.
3.

Silt Fence - The maintenance measures are as follows; (2.1) silt fences shall be inspected immediately after each rainfall and at least daily during prolonged rainfall, any required repairs shall be made immediately; (2.2) close attention shall be paid to the repair of damaged silt fence resulting from end runs and undercutting; (2.3) should the fabric on a silt fence decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly; (2.4) sediment deposits must be removed when the level of deposition reaches approximately one-half the height of the barrier; and (2.5) any sediment deposits remaining in place after the silt fence is no longer required shall be dressed to conform to the existing grade, prepared and seeded.
4.

Storm Drain Inlet Protection - The maintenance measures are as follows; (3.1) structures shall be inspected after each rain and repairs made as necessary and (3.2) structures shall be removed and the area stabilized when the remaining drainage area has been properly stabilized.
5.

Temporary Diversion Dike - The measure shall be inspected after every storm and repairs made to the dike, flow channel, outlet or sediment trapping facility, as necessary. Once every two weeks, whether a storm event has occurred or not, the measure shall be inspected and repairs made if needed. Damages caused by construction traffic or other activity must be repaired before the end of each working day.
6.

Temporary Fill Diversion - Since the practice is temporary and under most situations will be covered the next working day. The maintenance required should be low. If the practice is to remain in use for more than one day, an inspection shall be made at the end of each work day and repairs made to the measure if needed. The OPERATOR/CONTRACTOR should avoid the placement of any material over the structure while it is in use. Construction traffic should not be permitted to cross the diversion.
7.

Temporary Sediment Trap - The maintenance measures are as follows: (6.1) sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to one half the design volume of the wet storage, sediment removal from the basin shall be deposited in a suitable area and in such a manner that it will not erode and cause sedimentation problems; (6.2) filter stone shall be regularly checked to ensure that filtration performance is maintained, stone choked with sediment shall be removed and cleaned or replaced; and (6.3) the structure should be checked regularly to ensure that it is structurally sound and has not been damaged by erosion or construction equipment, the height of the stone outlet should be checked to ensure that its center is at least 1 foot below the top of the embankment.
8.

Temporary Sediment Basin - The basin embankment should be checked regularly to ensure that it is structurally sound and has not been damaged by erosion or construction equipment. The emergency spillway should be checked regularly to ensure that its lining is well established and erosion-resistant. The basin should be checked after each runoff producing rainfall for sediment cleanout and trash removal. When the sediment reaches the cleanout level, it shall be removed and properly disposed of.
9.

Temporary Seeding - Areas which fail to establish vegetative cover adequate to prevent rill erosion will be re-seeded as soon as such areas are identified. Control weeds by mowing.
10.

Permanent Seeding - The maintenance measures are as follows: (9.1) in general, a stand of vegetation cannot be determined to be fully established until it has been maintained for one full year after planting; (9.2) new seedlings shall be supplied with adequate moisture, supply water as needed, especially late in the season, in abnormally hot or dry conditions, or on adverse sites, water applications shall be controlled to prevent excessive runoff; (9.3) inspect all seeded areas for failures and make necessary repairs, replacements, and reseedings within the planting season, if possible; [9.3a] if stand is inadequate for erosion control, over seed and fertilize using half of the rates originally specified; [9.3b] if stand is 60% damaged, re-establish following seedbed and seeding recommendations; [9.3c] if stand has less than 40% cover, re-evaluate choice of plant materials and quantities of lime and fertilizer, the soil must be tested to determine if acidity or nutrient imbalances are responsible, re-establish the stand following seedbed and seeding recommendations.
11.

Mulching - All mulches and soil coverings should be inspected periodically (particularly after rainstorms) to check for erosion. Where erosion is observed in mulched areas, additional mulch should be applied. Nets and mats should be inspected after rainstorms for dislocation or failure. If washouts or breakage occur, reinstall netting or matting as necessary after repairing damage to the slope or ditch. Inspections should take place until grasses are firmly established. Where mulch is used in conjunction with ornamental plantings, inspect periodically throughout the year to determine if mulch is maintaining coverage of the soil surface; repair as needed.
12.

Soil Stabilization Blankets & Matting - All soil stabilization blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until which time they become permanently stabilized; at that time an annual inspection should be adequate.
13.

Street Cleaning/Sweeping - The maintenance measures are as follows; (12.1) evaluate access points daily for sediment tracking; (12.2) when tracked or spilled sediment is found on paved surfaces, it will be removed daily, during times of heavy track-out such as during rains, cleaning may be done several times throughout the day; (12.3) unknown spills or objects will not be mixed with the sediment; and (12.4) if sediment is mixed with other pollutants, it will be disposed of properly at an authorized landfill.

GENERAL NOTES

1.

All OPERATORS/CONTRACTORS must confirm with the APPLICANT that any and all applicable governmental approvals have been received prior to the start of work.
2.

BMP's may not be removed without INSPECTOR and applicable government approval.
3.

The APPLICANT, INSPECTOR, and CONTRACTORS/OPERATORS must adhere to all Good Housekeeping BMP's presented within the Omaha Regional Stormwater Design Manual Chapter 9 Section 9.6. Good Housekeeping BMP's focus on keeping the work site clean and orderly while handling materials and waste in a manner that eliminates the potential for pollutant runoff. Good Housekeeping BMP's such as Sanitary Waste Management (9.6.2), Solid Waste Management (9.6.3), Material Delivery & Storage (9.6.4), Street Cleaning/Sweeping (9.6.5), and Vehicle & Equipment Fueling (9.6.6) must be addressed when applicable. The aforementioned publications can be found at <http://www.omahastormwater.org>.
4.

The SWPPP documents (e.g., NDEQ-NPDES, SWPPP-SM, SWPPP-N, etc.) are essential and a requirement in one part is as binding as though occurring in all. The SWPPP documents are complementary. The documents describe and provide the complete SWPPP. The APPLICANT, INSPECTOR, and/or CONTRACTORS/OPERATORS may not take advantage of any apparent SWPPP errors or omissions. The INSPECTOR shall notify the APPLICANT, DESIGNER, and CONTRACTORS/OPERATORS promptly of any omissions or errors. The APPLICANT shall instruct the DESIGNER to make any corrections necessary to fulfill the overall intent of the SWPPP Documents (e.g., Grading Permit Modification Form). In the case of a discrepancy between parts of the SWPPP documents, the most stringent requirement shall rule.

STANDARD DETAILS

NUMBER	NAME	LOCATION
9.5.2	Construction Entrance	Omaha Regional Stormwater Design Manual
9.5.5	Storm Drain Inlet Protection	Omaha Regional Stormwater Design Manual
9.5.7	Temporary Diversion Dike	Omaha Regional Stormwater Design Manual
9.5.8	Temporary Fill Diversion	Omaha Regional Stormwater Design Manual
9.5.14	Temporary Sediment Trap	Omaha Regional Stormwater Design Manual
9.5.15	Temporary Sediment Basin	Omaha Regional Stormwater Design Manual
9.5.16	Dust Control	Omaha Regional Stormwater Design Manual
9.5.19	Temporary Seeding	Omaha Regional Stormwater Design Manual
9.5.20	Permanent Seeding	Omaha Regional Stormwater Design Manual
9.5.22	Mulching	Omaha Regional Stormwater Design Manual
9.5.23	Soil Stabilization Blankets & Matting	Omaha Regional Stormwater Design Manual
9.6.2	Sanitary Waste Management	Omaha Regional Stormwater Design Manual
9.6.3	Solid Waste Management	Omaha Regional Stormwater Design Manual
9.6.4	Material Delivery And Storage	Omaha Regional Stormwater Design Manual
9.6.5	Street Cleaning/Sweeping	Omaha Regional Stormwater Design Manual
9.6.6	Vehicle And Equipment Fueling	Omaha Regional Stormwater Design Manual
9.6.7	SWPPP Notification Sign	Omaha Regional Stormwater Design Manual

The Omaha Regional Stormwater Design Manual can be found at: <http://www.omahastormwater.org>

CONSTRUCTION ACTIVITIES & SCHEDULING

ACTIVITY	SCHEDULE
Install all BMP's needed and associated with the Grading Phase such as stabilized construction entrances, silt basins, riser pipes, outlet pipes, silt traps, silt fence, diversions, terraces, etcetera.	Prior to any stripping of existing vegetation or grading.
Proceed with stripping of existing vegetation and grading in accordance with the grading plan, while disturbing no more than is necessary.	After Installing all BMP's needed and associated with the Grading Phase. Furthermore, INSPECTOR approval must be obtained before the start of any stripping of existing vegetation or grading.
Proceed with infrastructure installation.	Infrastructure installation must occur prior to any lot development.
Implement the installation of Temporary Seeding, Permanent Seeding, and/or Mulching.	Stabilization measures must be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.
Implement the Installation all BMP's needed and associated with the Building Phase.	Building Phase BMP's must be installed concurrently with lot development.
Proceed with removal of BMP's.	BMP's may not be removed until each impacted drainage basin has been fully developed. Full development shall mean installation of pavement, buildings, and utilities, landscaping, and fully established permanent seeding. Furthermore, INSPECTOR approval must be obtained before the removal of any BMP's.

SITE INFORMATION

8/18/2018

LAV-20180601-4581

Estimated Start Date

PCWP Project Number

NDEQ NOI Number

Lot 2, Southport East Replat 9

Project Name

S 123rd Plz

Address

Southport East

Subdivision Name

S & ID #

La Vista

City

Sarpy

County

41.181461°N

96.103608°W

Latitude

Longitude

NE

State

68128

Zip Code

Total Site Area (Acres)

1.56

Estimated Permit Duration (Months)

12

Disturbed Area (Acres)

1.5

Cut Volume (yd³)

500

Undisturbed Area (Acres)

0.06

Fill Volume (yd³)

100

Impervious Area Before Construction (%)

00

Runoff Coefficient Before Construction

40

Impervious Area After Construction (%)

72

Runoff Coefficient After Construction

72

APPLICANT SWPPP CERTIFICATION

Business Name

Representative's Email Address

Phone Number

Representative's Name

Address

Fax Number

Project # Assigned by Applicant

City

State

Zip Code

I hereby agree to act as APPLICANT in association with this SWPPP. Furthermore, I certify under penalty of law the following: (1) that, this document and all supporting information has been prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted; (2) that, I understand and agree to abide by the terms and conditions contained within this Storm Water Pollution Prevention Plan - Site Map (SWPPP-SM), the associated Storm Water Pollution Prevention Plan - Narrative (SWPPP-N), and the PCWP Grading Permit Terms (<http://www.omahapermix.com>); (3) that, to the best of my knowledge and belief information contained in this SWPPP is true, complete, and accurate; (4) that, the SWPPP has been represented and warranted to conform to all applicable Standards, Criteria, Ordinances, Laws, Rules, and Regulations enacted by the – [a] PCWP and its Members, [b] Douglas County, [c] Sarpy County, [d] State of Nebraska, and [e] United States Federal Government; (5) that, sound and established practices were used for the creation of this SWPPP; (6) that, I am obligated to ensure inspection, reporting, and maintenance requirements occur under the terms of this SWPPP; (7) that, this SWPPP will be implemented as the first element of construction; (8) that, I shall indemnify and save harmless the PCWP, its Members, Officers, Agents and Employees from all claims and demands of every nature and description growing out of the implementation of this SWPPP, including personal injuries received and all property damage sustained; (9) that, I will retain the services of the designated DESIGNER and INSPECTOR, to perform all design and inspection duties associated with this SWPPP, through a contractual agreement; and (10) that, corrections of defects and deficiencies in design, construction, inspection, implementation, and testing shall be without expense to the PCWP and its Members, Officers, Agents and Employees and shall be my obligations while acting as APPLICANT.

APPLICANT'S Signature

Date

NOTES

1.

Acceptable silt fence specifications- AOS (#20 - 50 Sieve), Water Flow Rate (50 gpm/ sq. ft. - 125 gpm/ sq.ft), Tensile Strength (Grab) - (Min. 120 Warp or greater and Elongation (5-25%).

2.

On each new run of silt fence spray paint the beginning of the run with 0+00 and spray paint the end with the date of installation and LF of the run.

3.

Silt fence should be securely fastened to each steel support post or to woven wire which is in turn attached to the steel fence posts. A minimum of 3 ties are required for each post. To be located in the top 12" of the silt fence.

4.

Steel posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. (Incline all posts 20° Max. from vertical, toward flow)

5.

Silt fence shall be trenched in with a silt fence plow so that the downslope face of the trench is flat and perpendicular to the line of flow.

6.

Silt fence shall be removed when it has served its usefulness so as not to block or impede storm flow or drainage.

7.

Sediment trapped by this practice shall be uniformly distributed on the source area prior to topsolling.

SILT FENCE  
NOT TO SCALE

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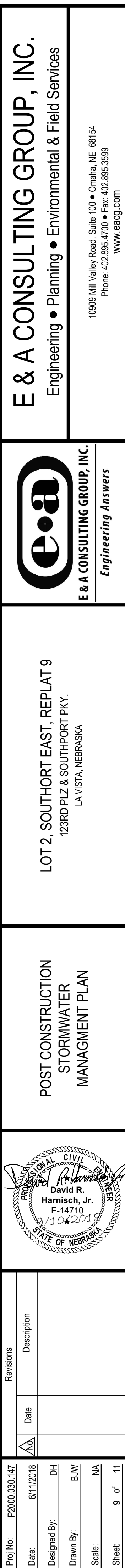
LOT 2, SOUTHWEST EAST, REPLAT 9  
123RD PLZ & SOUTHWEST PKY.  
LA VISTA, NEBRASKA

STORMWATER  
POLLUTION PREVENTION  
PLAN

Proj No:	Revisions	Description		Date
		Description	Description	
P2000.030.147	1			8/11/2018
Date:	Designed By:	DH	Drawn By:	BJW
	Scale:	NA		NA
	Sheet:	8	of	11

LAV-20180601-4581-T

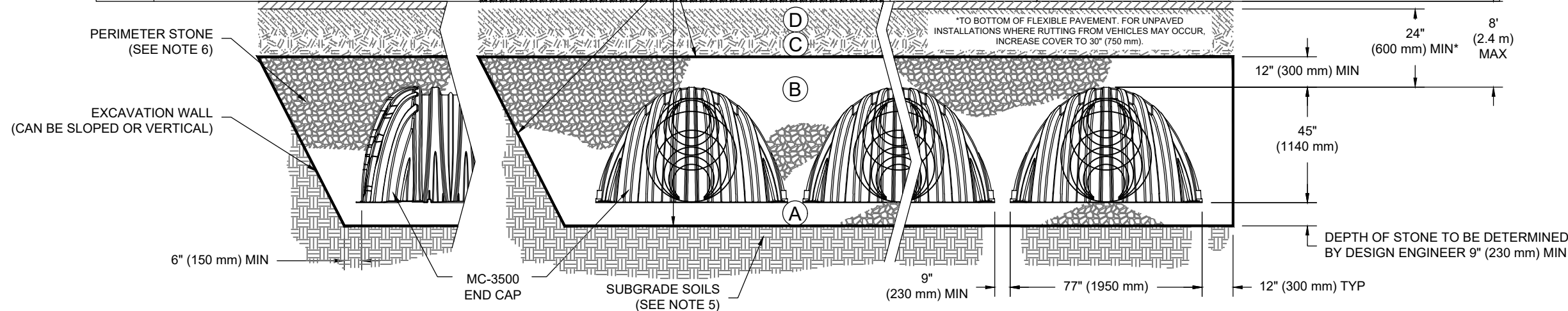






# ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.		<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43 <sup>1</sup> 3, 4
D	A	<b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43 <sup>1</sup> 3, 4  NO COMPACTION REQUIRED.
PLATE COMPACT OR ROLL TO	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE FLANGULAR REPAIRS (B) STONE ('C' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.	MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.	
ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS.		PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER)		



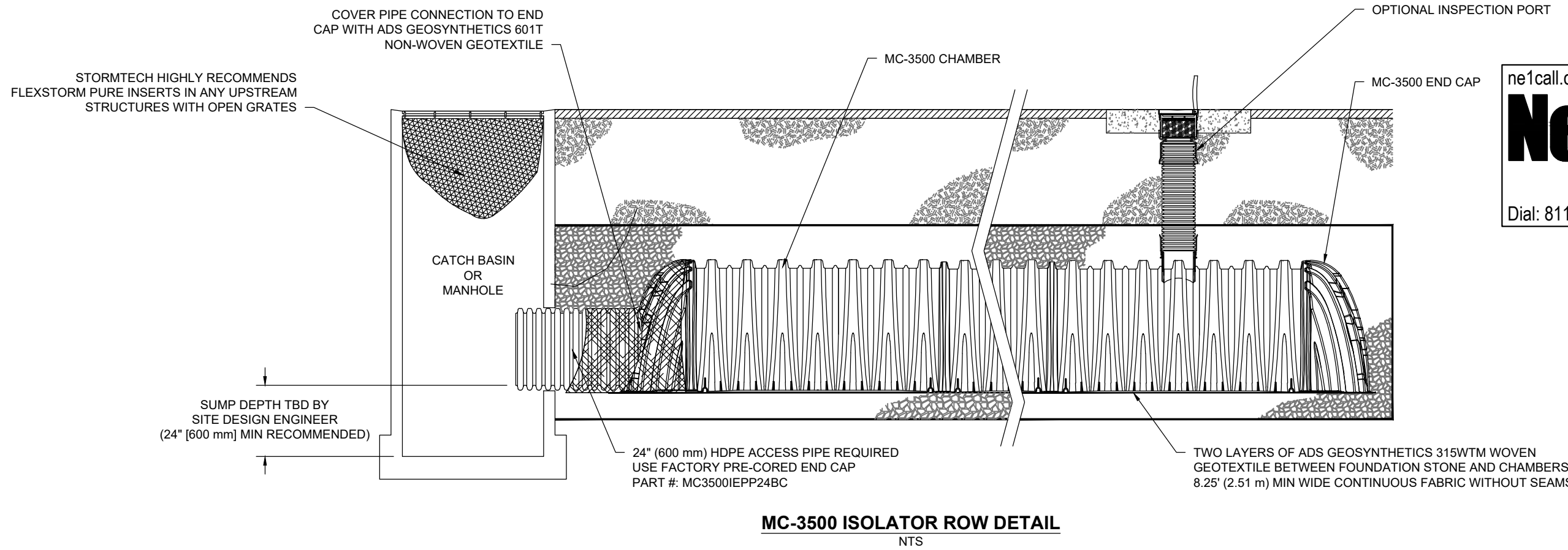
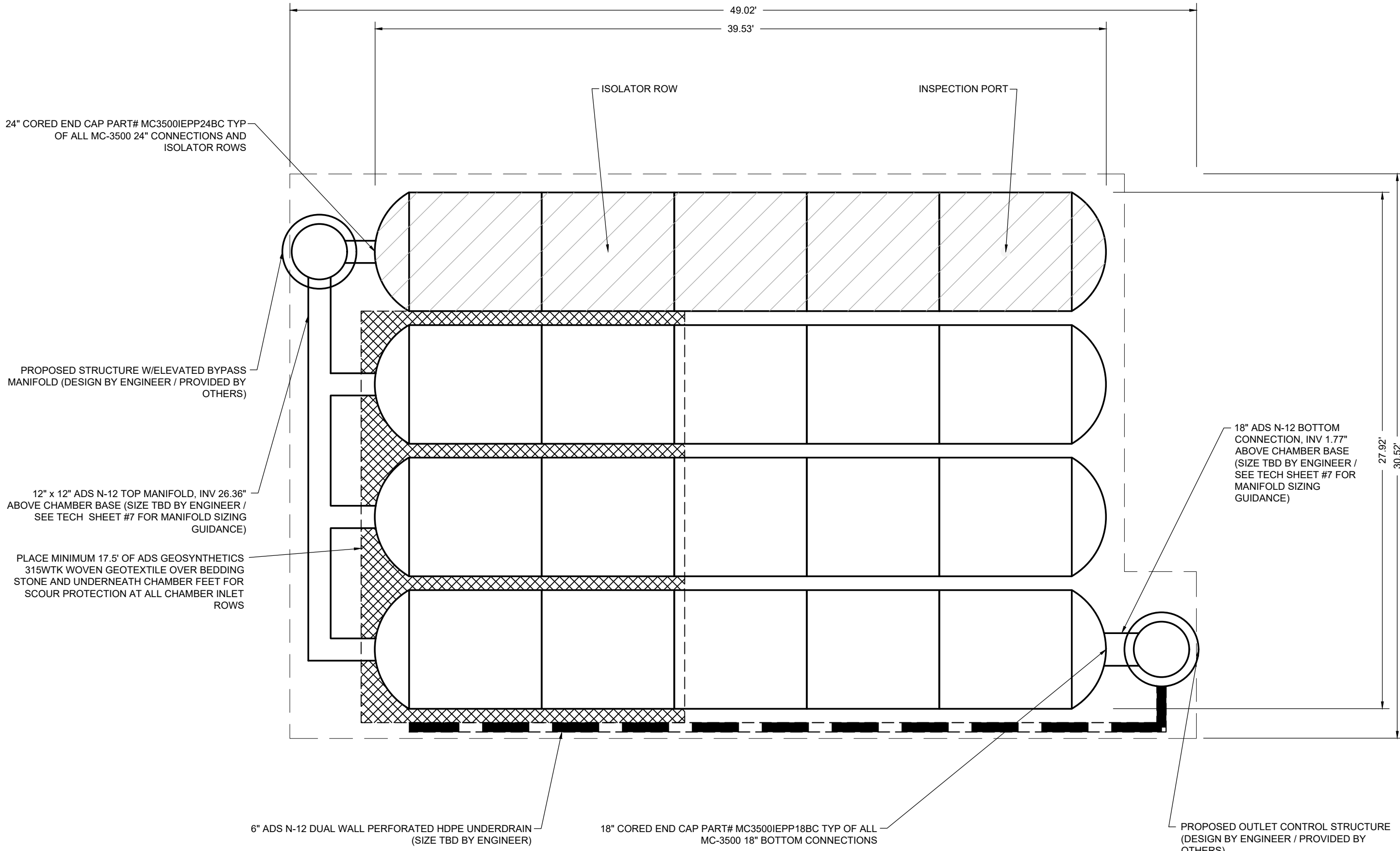
## NOTES:

- MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" \*J
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" \*J
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS \*J
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT \*J
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS \*J
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

## CONCEPTUAL LAYOUT

(20) STORMTECH MC-3500 CHAMBERS  
(8) STORMTECH MC-3500 END CAPS  
INSTALLED WITH 12" COVER STONE, 9" BASE STONE, 40% STONE VOID  
INSTALLED SYSTEM VOLUME: 4498 CF  
AREA OF SYSTEM: 1411 FT<sup>2</sup>  
PERIMETER OF SYSTEM: 159 FT

## COMPUTER GENERATED CONCEPTUAL LAYOUT - NOT FOR CONSTRUCTION



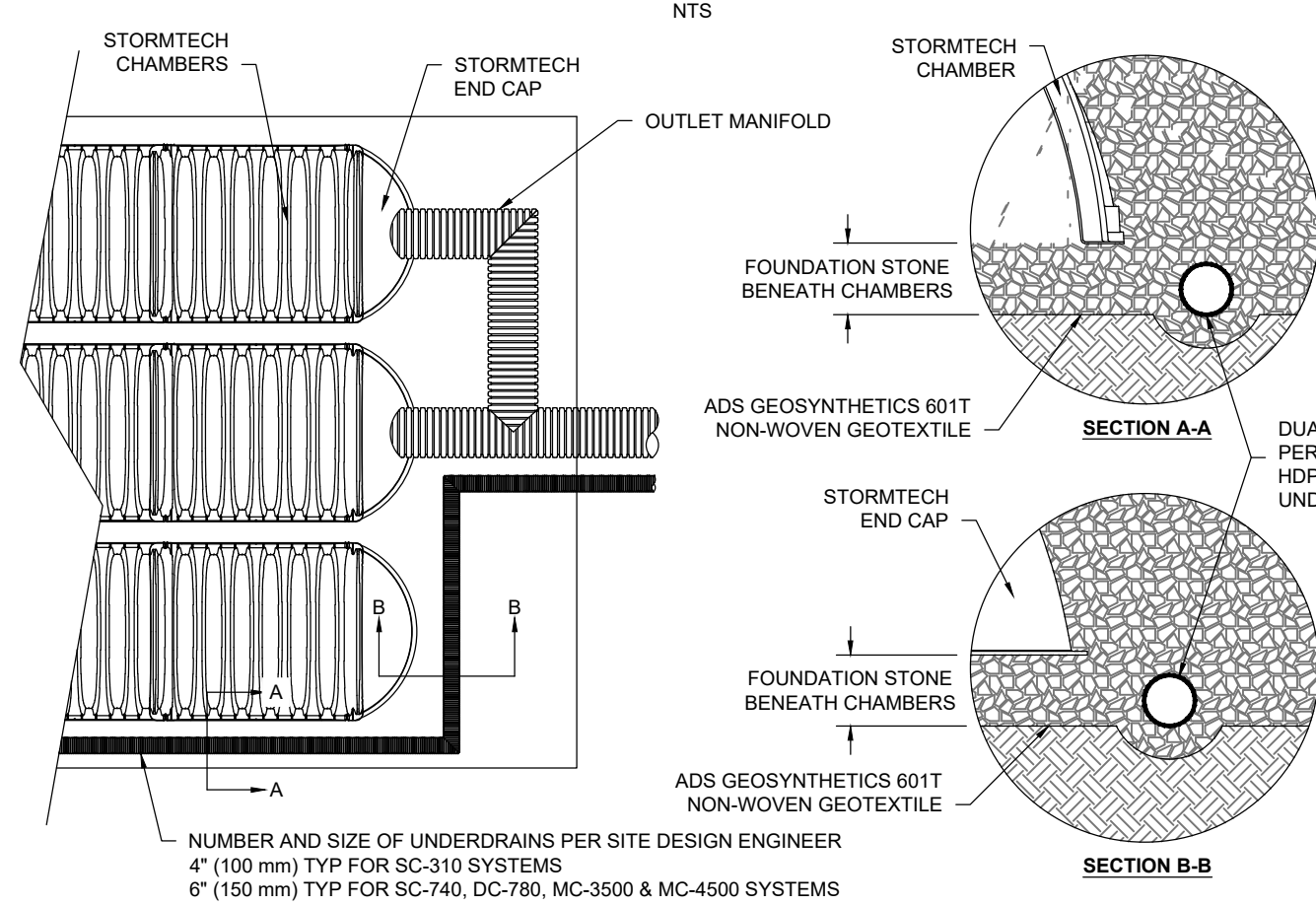
## INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
- B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE(S). MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE.
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

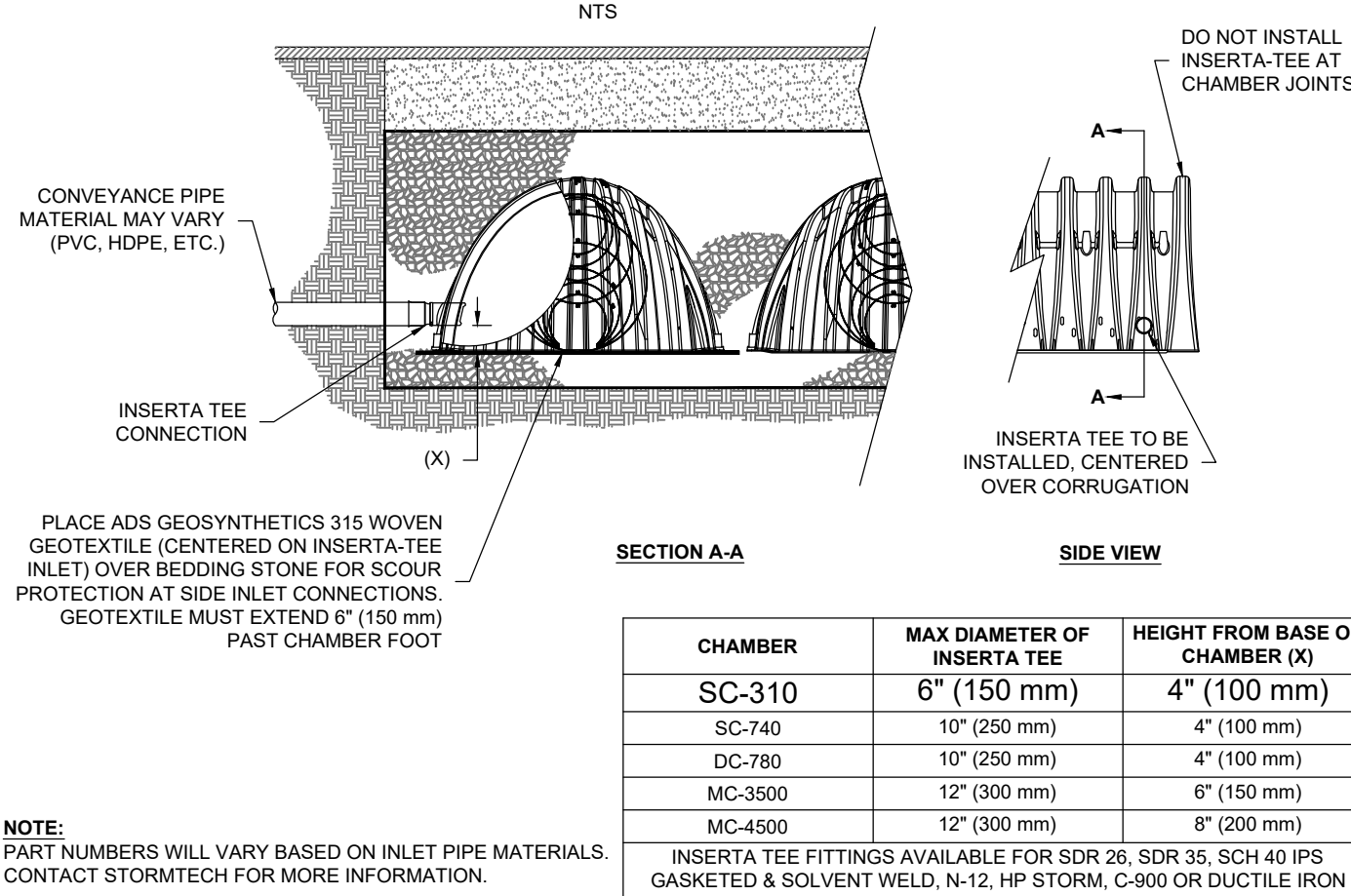
## NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS \*J
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

## UNDERDRAIN DETAIL



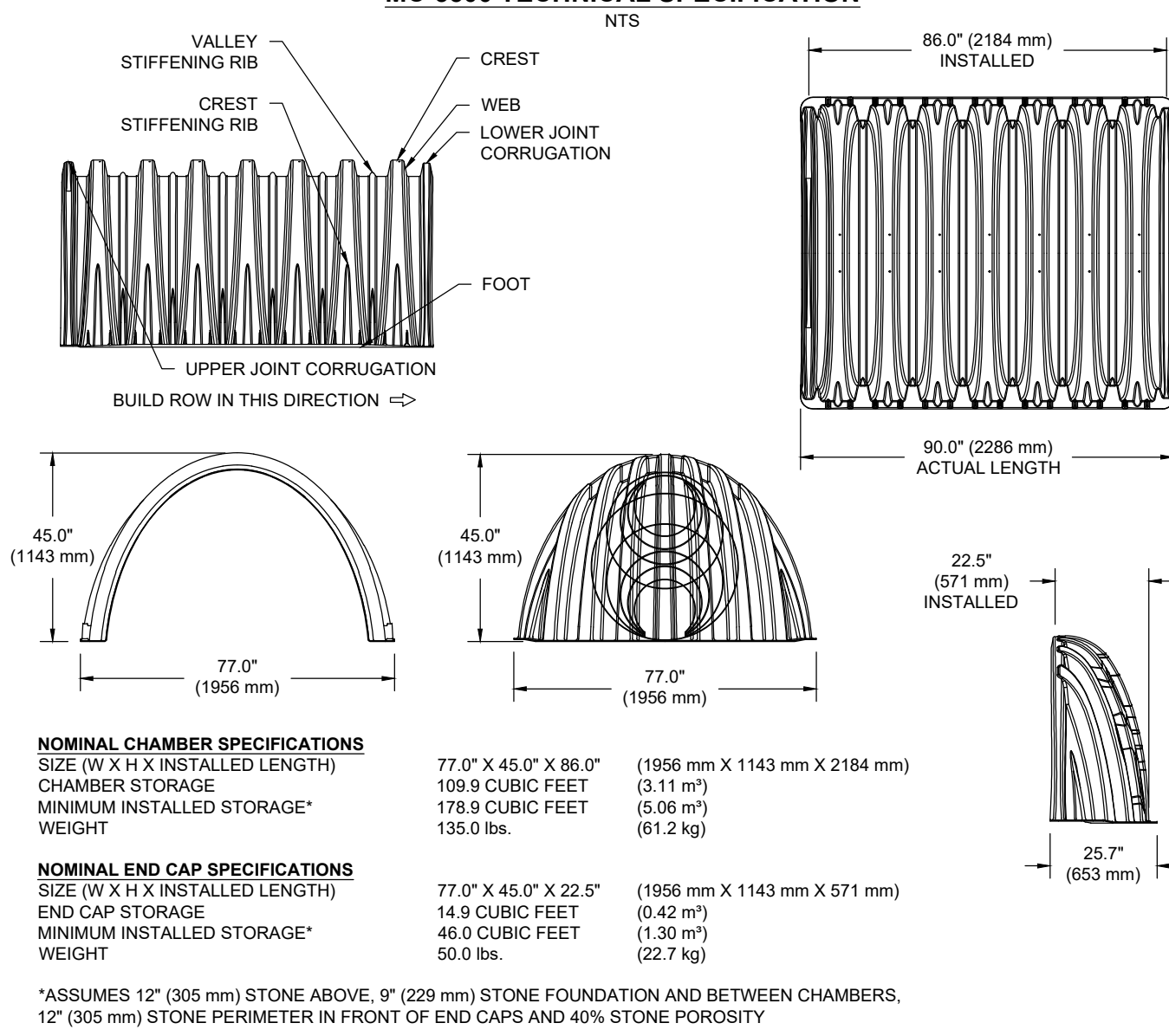
## INSERTA TEE DETAIL



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)

NOTE: PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

## MC-3500 TECHNICAL SPECIFICATION



\*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP08B	---	31.16" (791 mm)	0.66" (17 mm)
MC3500IEPP10T	8" (200 mm)	---	0.81" (21 mm)
MC3500IEPP10B	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	0.93" (24 mm)
MC3500IEPP12B	---	26.36" (670 mm)	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B	---	---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18BC	---	14.48" (368 mm)	1.77" (45 mm)
MC3500IEPP24TC	24" (600 mm)	---	2.06" (52 mm)
MC3500IEPP24BC	---	---	---
MC3500IEPP30BC	30" (750 mm)	---	---

CUSTOM PRECURED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

## NOTE:

To receive PCSMP approval and / or Certificate of Occupancy, the construction of all PCSMP BMP's is required to be certified by E & A Consulting Group. Contractor shall contact David Harnisch at E & A Consulting Group (402 895-4700 office / 402 320-7313 cell) a minimum of 48 hours prior to starting construction on any PCSMP BMP.

LAV-20180601-4581-P

E & A CONSULTING GROUP, INC.

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Engineering Answers

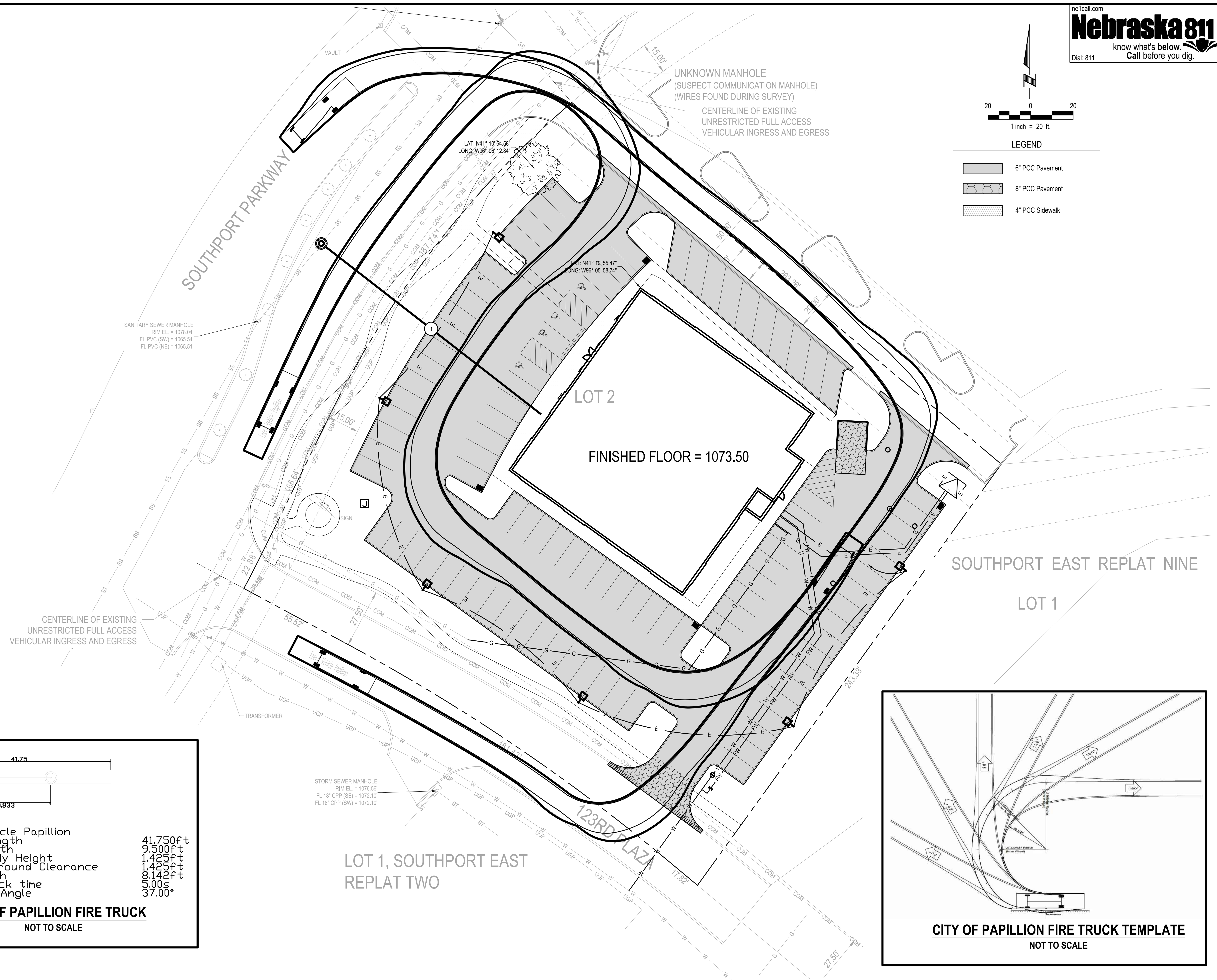
LOT 2, SOUTHWEST EAST, REPLAT 9  
123RD PLZ & SOUTHWEST PKY.  
LA VISTA, NEBRASKA

POST CONSTRUCTION  
STORMWATER  
MANAGEMENT PLAN

David R. Harnisch, Jr.  
E-14710  
10/20/2018  
STATE OF NEBRASKA  
REGISTERED PROFESSIONAL CIVIL ENGINEER

Revisions	Description	Date
1	Revised	6/11/2018
2	Revised	6/11/2018
3	Revised	6/11/2018
4	Revised	6/11/2018
5	Revised	6/11/2018
6	Revised	6/11/2018
7	Revised	6/11/2018
8	Revised	6/11/2018
9	Revised	6/11/2018
10	Revised	6/11/2018
11	Revised	6/11/2018





Emerg Vehicle Papillion	
Overall Length	41.750ft
Overall Width	9.500ft
Overall Body Height	1.425ft
Min Body Ground Clearance	1.425ft
Track Width	8.142ft
Lock-to-lock time	5.00s
Max Wheel Angle	37.00°

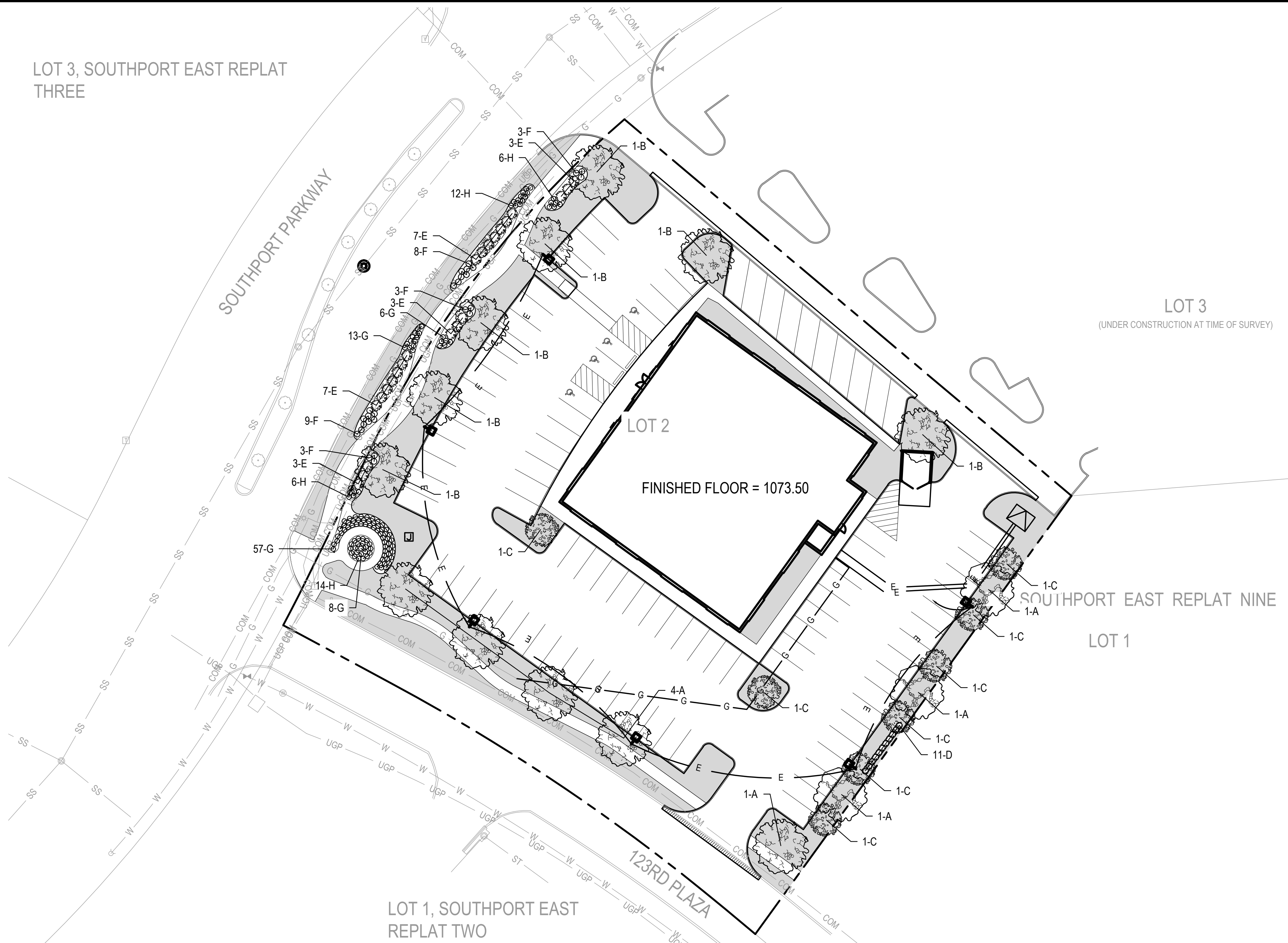
**CITY OF PAPIILLION FIRE TRUCK**

**NOT TO SCALE**

Proj No.: P2000.030.147		Revisions				PAVILLION FIRE TRUCK TURNING EXHIBIT		LOT 2, SOUTHWEST EAST, REPLAT 9 123RD PLZ & SOUTHWEST PKY. LA VISTA, NEBRASKA				E & A CONSULTING GROUP, INC. <i>Engineering Answers</i>	
Date: 6/11/2010		Description:		Date:		Description:		LOT 2, SOUTHWEST EAST, REPLAT 9 123RD PLZ & SOUTHWEST PKY. LA VISTA, NEBRASKA				E & A CONSULTING GROUP, INC. <i>Engineering Answers</i>	
Designed By: DH		Date:		Date:		Description:		LOT 2, SOUTHWEST EAST, REPLAT 9 123RD PLZ & SOUTHWEST PKY. LA VISTA, NEBRASKA				E & A CONSULTING GROUP, INC. <i>Engineering Answers</i>	
Drawn By: BJW		Date:		Date:		Description:		LOT 2, SOUTHWEST EAST, REPLAT 9 123RD PLZ & SOUTHWEST PKY. LA VISTA, NEBRASKA				E & A CONSULTING GROUP, INC. <i>Engineering Answers</i>	
Scale: NA		Date:		Date:		Description:		LOT 2, SOUTHWEST EAST, REPLAT 9 123RD PLZ & SOUTHWEST PKY. LA VISTA, NEBRASKA				E & A CONSULTING GROUP, INC. <i>Engineering Answers</i>	
Sheet: NA of 11		Date:		Date:		Description:		LOT 2, SOUTHWEST EAST, REPLAT 9 123RD PLZ & SOUTHWEST PKY. LA VISTA, NEBRASKA				E & A CONSULTING GROUP, INC. <i>Engineering Answers</i>	



LOT 3, SOUTHPORT EAST REPLAT THREE



LANDSCAPE NOTES:

- Locate and verify the location of all underground utilities prior to the start of any construction. Care should be taken not to disturb any existing utilities during construction. Any damage to utilities or other improvements caused by the Contractor will be repaired at no cost to the Owner.
- All plant material shall be of good quality and sizes shall meet required size specifications.
- All plants are to be watered in immediately after planting and then watered once a week for a period of two months from time of planting.
- All plant material shall be guaranteed to be in a live and healthy growing condition for two full growing seasons (trees) and one full growing season (perennials & shrubs) after final project acceptance or shall be replaced free of charge with the same grade and species including labor.
- Verify all dimensions and conditions prior to starting construction. The location of plant material is critical and shall be installed as indicated on plans. Field adjustments may be necessary based on field conditions (i.e., root ball and drop inlet conflict). All adjustments must be approved by the landscape architect.
- The Landscape Contractor shall remove all construction debris and materials injurious to plant growth from planting pits and beds prior to backfilling with planting mix. All planting areas shall be free of weeds and debris prior to any work.
- Provide locally available shredded hardwood mulch on all trees and in all planting beds to a 3-4 inch minimum depth unless otherwise noted. Mulch ring to extend 1'-0" minimum beyond planting pit. Minor site grading to be included if needed.
- All trees are to be staked for a period of not less than one year from time of planting.
- Contractor to coordinate work with other amenities contractors.

IRRIGATION NOTES:

- Irrigation bid to include meter pit and MUD fees.
- Irrigate all sodded areas.
- Irrigation controller to be mounted in a steel utility box with hasp for pad lock.
- Irrigation system to be guaranteed for 1 year. Written guarantee to be supplied prior to final payment.
- Irrigation contractor responsible to winterize system one time.
- Irrigation contractor to furnish as built drawing of the system and catalogue cuts of the installed equipment prior to final payment.
- Irrigation contractor to provide owner and engineer an irrigation plan shop drawing and equipment catalog cuts for approval prior to installation.
- Contractor to coordinate work with other amenities contractors.

SODDING NOTES:

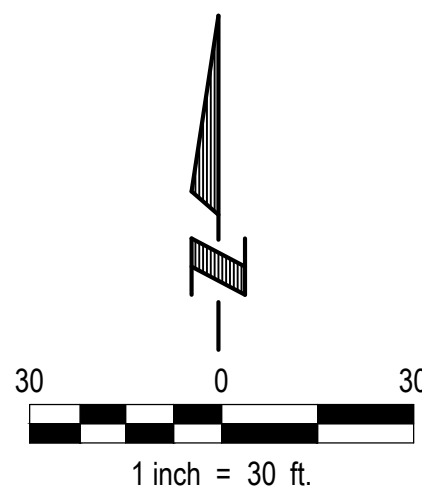
- The contractor shall notify the architect at least forty-eight hours in advance of the time he intends to begin sodding and shall not proceed with such work until permission to do so have been granted. No frozen sod shall be placed. No sodding shall be done on frozen earth.
- Care shall be exercised at all times to retain the native soil on the roots of the sod during the process of transplanting. Dumping from vehicles will not be permitted. The sod shall be planted within eighteen (18) hours from the time it is harvested unless it is tightly rolled or stored roots-to-roots in a satisfactory manner. All sod in stacks shall be kept moist and shall be protected from exposure to the sun and from freezing. No storage longer than three (3) days will be permitted. Sod which becomes dried out or does not meet the specifications will be rejected.
- There shall be a minimum of six inches, after tamping, of topsoil under all sod. Excavations or trenching shall be made to a sufficient depth below the finished grade of the sod to accommodate the depth of topsoil as specified and the thickness of sod as specified. Fertilizer shall be applied at a rate to provide 100 pounds of nitrogen per acre unless fertilizer has been applied under another item in this contract to the topsoil in the sod bed. Fertilizer applied under this item shall be incorporated with the topsoil to a depth of at least two inches before the sod is laid, unless otherwise specified or approved. Incorporation shall be accomplished by disking, harrowing, drilling, raking or other approved means.
- The soil on which the sod is laid shall be reasonably moist and shall be watered, if so directed. The sod shall be laid smoothly, edge to edge, and all openings shall be plugged with sod. Immediately after the sod is laid, it shall be pressed firmly into contact with the sod bed by tamping, rolling, or by other approved methods so as to eliminate all air pockets, provide true and even surfaces, insure knitting and protect all exposed sod edges but without displacement of the sod or deformation of the surface of the sodded areas and watered at the rate of five gallons per square yard of sodded area unless otherwise directed.
- The contractor shall take care of the sodded areas until all work on the entire contract has been completed, and sod has been mowed twice and then accepted. Such care shall consist of providing protection against traffic by approved warning signs or barricades and the mowing of grass to the height of two inches when the growth attains a maximum height of four inches.
- Sod shall also be watered. When the sod is watered, sufficient water shall be applied to wet the sod at least two inches deep in the sod bed. Watering shall be done in a manner which will not cause erosion or other damage to the finished surfaces. Any surfaces which become gullied or otherwise damaged shall be repaired to reestablish the grade and conditions of the soil prior to sodding and shall then be re-fertilized and re-sodded as specified under this item.
- In drainage-ways or slopes, the sod shall be laid with their longest dimensions parallel to the contours. Such sodding shall begin at the base of slopes or grades and the sodding progress in continuous parallel rows working upward. Vertical joints between such sodding shall be staggered. All sod shall be laid to the grades specified and the grades formed with special care at the junction of drainage-ways.
- Sod shall be held in place by stakes in all drainage-ways, on all slopes steeper than 4:1 and elsewhere where specified or as directed. Pegging shall be done immediately after tamping. At least one stake shall be driven through each sod to be staked, and the stakes shall not be more than two feet apart. Stakes shall have their flat sides against the slope and be driven flush. Stakes for pegging sod shall be of wood, approximately one inch by two inches and of sufficient length to penetrate the sod, the topsoil and to a minimum depth of two inches of subsoil.
- The contractor shall keep all sodded areas thoroughly watered for a period of thirty (30) calendar days after the initial laying and as often as required thereafter until sod has been fully established (two mowings) and accepted by the engineer and owner. Contractor to use temporary irrigation for the watering of the sod. Contractor to supply all necessary hoses, fittings and sprinklers for all watering needs.
- All sod must be fully established (two mowings) and growing at the time of inspection and acceptance.

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PLANT SCHEDULE

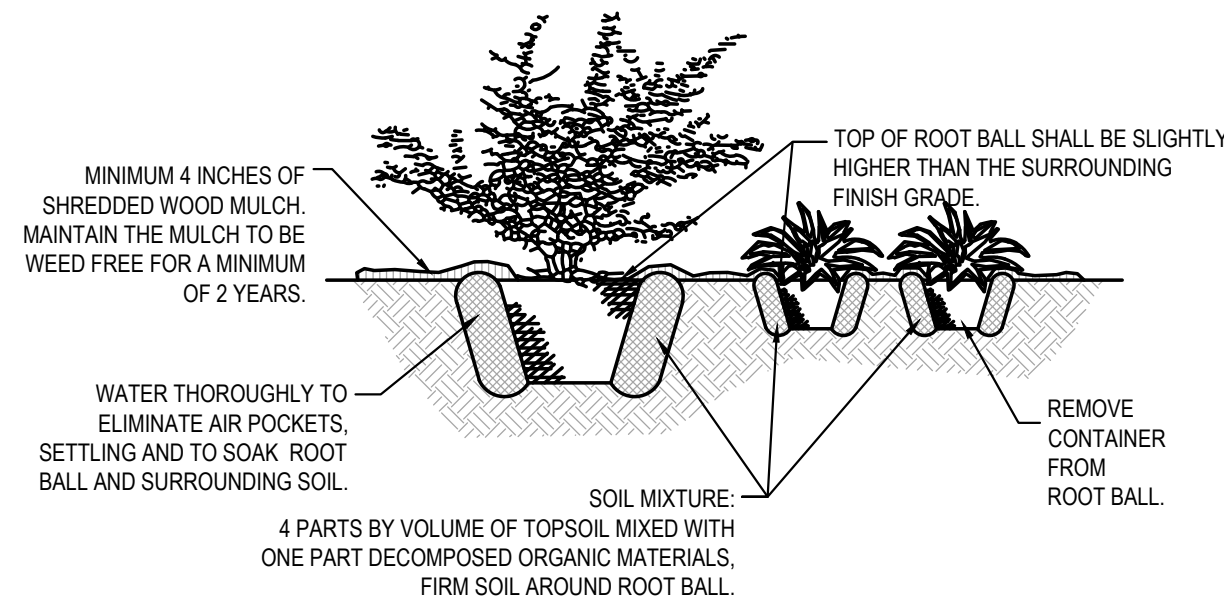
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE
A	8	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	3"	B&B
B	7	Acer rubrum 'Red Sunset'	Red Sunset Maple	3"	B&B
C	8	Malus 'Spring Snow'	Spring Snow Crabapple	2 1/2"	B&B
D	11	Viburnum dentatum	Arrow-Wood Viburnum	5 Gal.	Cont.
E	23	Berberis thunbergii	Crimson Pygmy Barberry	5 Gal.	Cont.
F	26	Schizachyrium scoparium	Little Bluestem Grass	2 Gal.	Cont.
G	84	Hemerocallis x 'Stella de Oro'	Stella D'oro Daylily	1 Gal.	Cont.
H	38	Veronica x 'Sunny Border Blue'	Sunny Border Blue Veronica	1 Gal.	Cont.

NOTES:

- Areas to be installed with sod and irrigation.

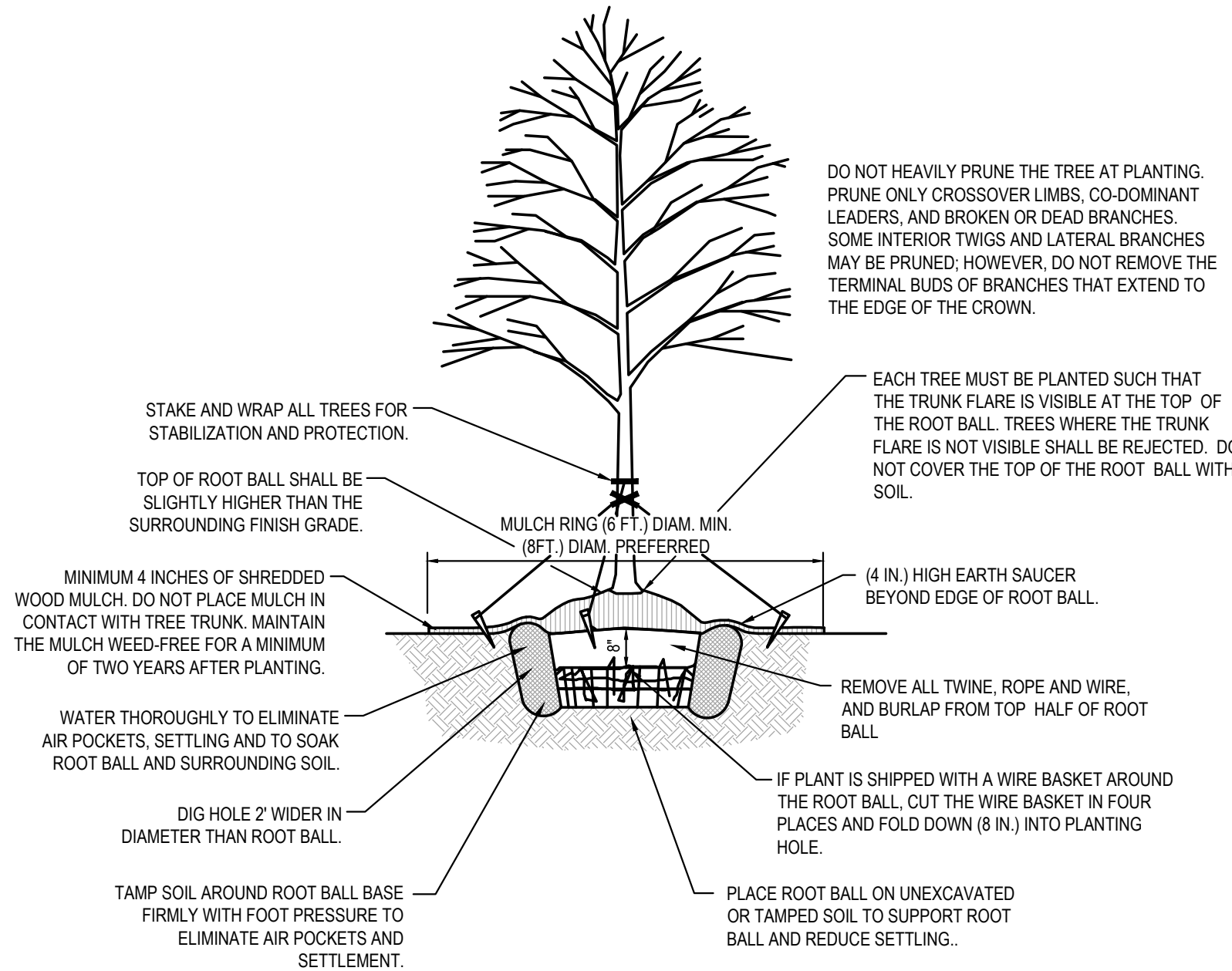
GREENSPACE NOTES:

- 14,803 SF greenspace provided. (Site = 68,349 SF / 14,803 SF = 21.6%)  
20% REQUIRED 21.6% PROVIDED



SHRUB & PERENNIAL PLANTING DETAIL

NOT TO SCALE



TREE PLANTING DETAIL - B & B TREE

NOT TO SCALE

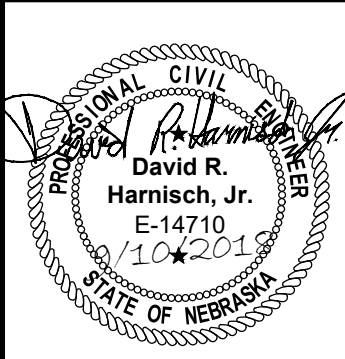
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LOT 2, SOUTHORT EAST, REPLAT 9  
123RD PLZ & SOUTHPORT PKY.  
LA VISTA, NEBRASKA

LANDSCAPE PLAN



Revisions	Description	Date	Description	Date
1	Revised	6/11/2018	MAT	
2	Revised	6/11/2018	BJW	
3	Revised	6/11/2018	NA	
4	Revised	6/11/2018	NA	

Proj No: P2000.030.147

Date: 6/11/2018

Designed By: MAT

Drawn By: BJW

Scale: NA

Sheet: 11 of 11

David Harnisch

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