SITE PLAN

FOR

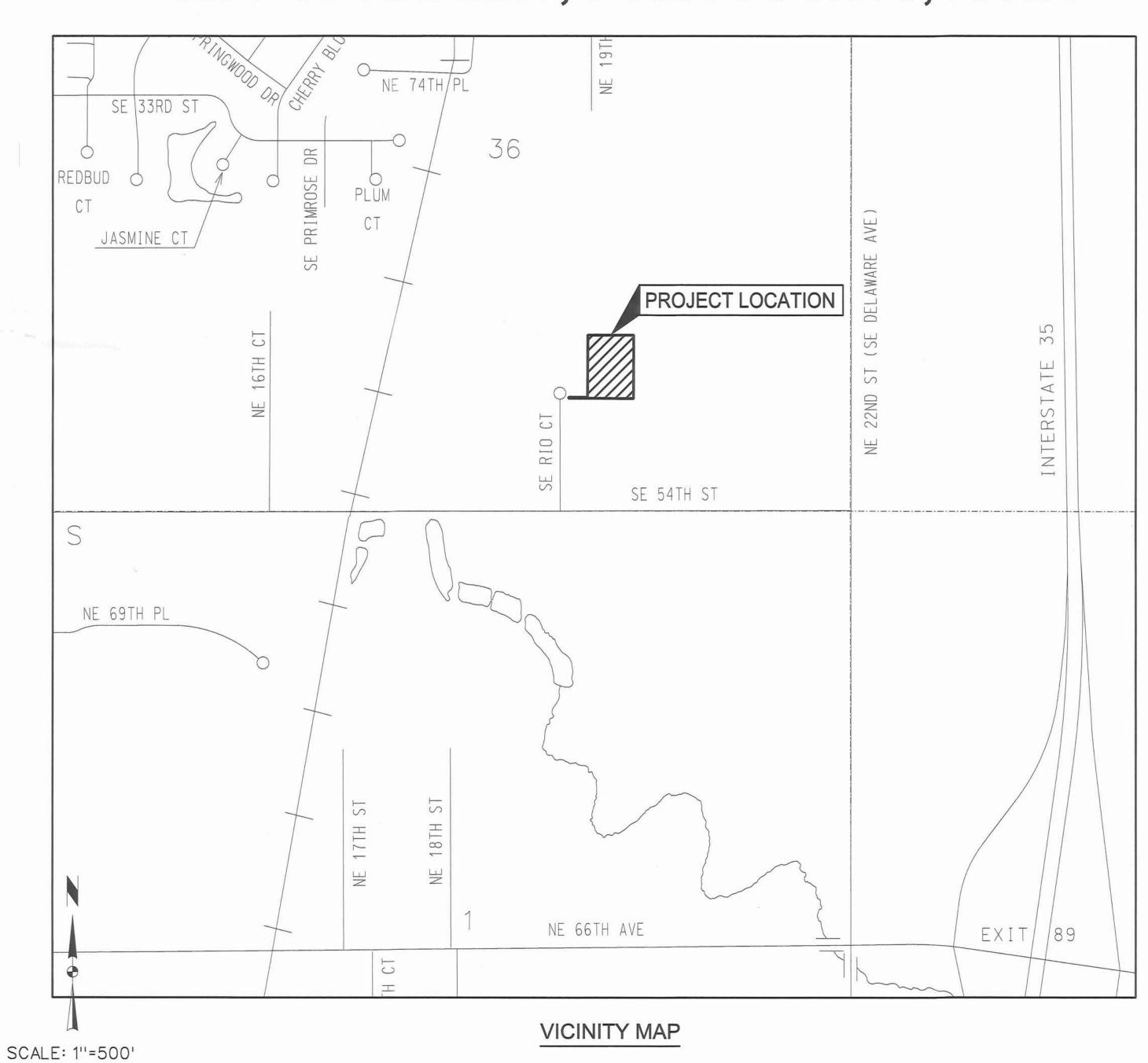
DZ INVESTMENTS

4707 SE RIO COURT

CITY OF ANKENY, POLK COUNTY, IOWA



OWNER/DEVELOPER



INDEX OF SHEETS

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Project No: 1190639

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LEGEND

Features	Existing	Propose
Spot Elevation Contour Elevation Fence (Barbed, Field, Hog) Fence (Chain Link) Fence (Wood) Fence (Silt) Tree Line Tree Stump	93.0 -93_ -x-x- -"-"- 	93.0 ×93
Deciduous Tree or Shrub		0
Coniferous Tree or Shrub	The same of the sa	0
Communication Overhead Communication Fiber Optic Underground Electric Overhead Electric Gas Main with Size High Pressure Gas Main with Size Water Main with Size Sanitary Sewer with Size Duct Bank Test Hole Location for SUE w/ID	8" W(*) 8" S(*) DUCT(*)	— OC — — FO — — E — — OE — — 4" G- — 4" HPG — 8" W

(*) Denotes the survey quality service level for utilities

Sanitary Manhole	0 12!! ST	0 10U ST
Storm Sewer with Size Storm Manhole Single Storm Sewer Intake Double Storm Sewer Intake Fire Hydrant Fire Hydrant on Building Water Main Valve Water Service Valve Well Utility Pole Guy Anchor Utility Pole with Light Utility Pole with Transformer Street Light Yard Light Electric Box Electric Transformer Traffic Sign Communication Pedestal Communication Manhole Communication Handhole Fiber Optic Manhole Fiber Optic Handhole Gas Valve Gas Manhole Gas Apparatus Fence Post or Guard Post Underground Storage Tank Above Ground Storage Tank Sign Satellite Dish		12" ST
Mailbox Soil Boring	-	*

UTILITY QUALITY SERVICE LEVELS

QUALITY LEVELS OF UTILITIES ARE SHOWN IN THE PARENTHESES WITH THE UTILITY TYPE AND WHEN APPLICABLE, SIZE. THE QUALITY LEVELS ARE BASED ON THE CI/ ASCE 38-02 STANDARD.

QUALITY LEVEL (D) INFORMATION IS DERIVED FROM EXISTING UTILITY RECORDS OR ORAL RECOLLECTIONS.

QUALITY LEVEL (C) INFORMATION IS OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION WITH QUALITY D INFORMATION.

QUALITY LEVEL (B) INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF

QUALITY LEVEL (A) IS HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES OBTAINED BY ACTUAL EXPOSURE OR VERIFICATION OF PREVIOUSLY EXPOSED SUBSURFACE UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED, THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED, THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

UTILITY CONTACT INFORMATION

S-SANITARY SEWER

CITY OF ANKENY - SANITARY SEWER ROGER MCFARLAND (515) 965-6483

rmcfarland@ankenyiowa.gov CITY OF ANKENY - WATER

SHAWN BUCKNER (515) 963-3524 sbuckner@ankenyiowa.gov

C1-COMMUNICATION

W-WATER

CENTURYLINK RAY MONTOYA 515-263-7385

raymond.montoya@centurylink.com

FO1-FIBER OPTIC

AUREON NETWORK SERVICES JEFF KLOCKO 515-830-0445

eff.klocko@aureon.com

E-ELECTRIC G-NATURAL GAS

MIDAMERICAN ENERGY THERESA MCGUIRE 515-281-2260 tmmcguire@midamerican.com

www.iowaonecall.com | Know wher's Bollow.

1-800-292-8989

GENERAL NOTES

- A. NOTIFY UTILITY PROVIDERS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES AND COORDINATE WITH UTILITY PROVIDERS AS NECESSARY DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION, AND DEPTH OF ALL UTILITIES. PROTECT ALL UTILITY LINES AND STRUCTURES NOT SHOWN FOR REMOVAL OR MODIFICATION. ANY DAMAGES TO UTILITY ITEMS NOT SHOWN FOR REMOVAL OR MODIFICATION SHALL BE REPAIRED TO THE UTILITY OWNER'S SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
- B. CONSTRUCTION OF ALL STREET AND UTILITY IMPROVEMENTS SHALL CONFORM TO THE 2019 SUDAS STANDARD SPECIFICATIONS, THE CITY OF ANKENY SUPPLEMENTAL SPECIFICATIONS FOR PUBLIC
- C. LENGTH OF UTILITIES SHOWN ON PLANS ARE DIMENSIONED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE.
- D. ALL TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). WHEN CONSTRUCTION ACTIVITIES OBSTRUCT PORTIONS OF THE ROADWAY, FLAGGERS SHALL BE PROVIDED. FLAGGERS SHALL CONFORM TO THE MUTCD IN APPEARANCE, EQUIPMENT AND ACTIONS.
- E. NOTIFY OWNER, ENGINEER, AND CITY OF ANKENY AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
- F. CONSTRUCT MANHOLES AND APPURTENANCES AS WORK PROGRESSES. BACKFILL WITH SUITABLE MATERIAL AND COMPACT TO 95% MAXIMUM DENSITY.
- G. IN THE EVENT OF A DISCREPANCY BETWEEN THE QUANTITY ESTIMATES AND THE DETAILED PLANS, THE DETAILED PLANS SHALL GOVERN.
- H. ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED AND NOTED ACCORDINGLY ON THE AS-BUILT DOCUMENTS.
- I. DIMENSIONS, BUILDING LOCATION, UTILITIES AND GRADING OF THIS SITE ARE BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. ANY SUCH CHANGES OR CONFLICTS BETWEEN THIS PLAN AND FIELD CONDITIONS ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT VERIFICATION OF ALL SITE IMPROVEMENTS PRIOR TO CONSTRUCTION.
- J. CONTRACTOR TO LOAD AND TRANSPORT ALL MATERIALS CONSIDERED TO BE UNDESIRABLE TO BE INCORPORATED INTO THE PROJECT TO AN APPROVED OFF-SITE WASTE SITE.
- K. CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED. RESPREAD TO MINIMUM 8" DEPTH TO FINISH GRADES.
- L. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AND/OR TOP OF PAVING SLAB (GUTTER), UNLESS OTHERWISE NOTED.
- M. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM NEIGHBORING STREETS. DRIVEWAYS, AND SIDEWALKS CAUSED BY CONSTRUCTION ACTIVITIES IN A TIMELY MANNER.
- N. THE ADJUSTMENT OF ANY EXISTING UTILITY APPURTANENCES TO FINAL GRADE IS CONSIDERED INCIDENTAL TO THE SITE WORK.
- O. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EROSION CONTROL MEASURES AS NECESSARY. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING ANY EXISTING EROSION CONTROL MEASURES ON SITE AT THE TIME OF CONSTRUCTION. GRADING AND SOIL EROSION CONTROL CODE REQUIREMENTS SHALL BE MET BY CONTRACTOR. A GRADING PERMIT IS REQUIRED FOR THIS
- P. CONTRACTOR TO COORDINATE NATURAL GAS, ELECTRICAL, TELEPHONE AND ANY OTHER FRANCHISE UTILITY SERVICES WITH UTILITY SERVICE PROVIDER, CITY OF ANKENY, AND THE OWNER PRIOR TO CONSTRUCTION.
- Q. CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS AND MAINTAIN MINIMUM 18" VERTICAL AND HORIZONTAL CLEARANCE BETWEEN UTILITIES. CONTRACTOR TO COORDINATE UTILITY ROUTING TO BUILDING AND VERIFY CONNECTION LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION.
- R. ALL ROOF TOP UNITS SHALL BE SCREENED FROM PUBLIC VIEW.

ZONING

M-1: LIGHT INDUSTRIAL DISTRICT

PROPERTY DESCRIPTION

PARCEL B BK 15488 PG 862 BEG SW COR LT 5 AKA SW COR PARCEL A THN E 122.48F TO SE COR PARCEL A THN N 411F E 305F S 418F W 431.12F TO W LN LT 4 THN NELY 7.89F TO POB LTS 4 & 5 CARNEY INDUSTRIAL PLAT 1

BULK REGULATIONS

FRONT YARD SETBACK = 50' REAR YARD SETBACK = 40' SIDE YARD SETBACK = NONE, EXCEPT WHEN ADJACENT TO RESIDENTIAL, THEN 50' MAXIMUM HEIGHT = 75'

PROPERTY ADDRESS

PARKING REQUIREMENTS: 34,500 SF BUILDING 1 STALL PER 200 SF OFFICE (CUSTOMER USE) 1,000 SF/200 SF= 5 STALLS REQUIRED 1 STALL PER 400 SF (EMPLOYEE USE) 1,200 SF/400 SF= 3 STALLS REQUIRED 1 STALL PER 5000 SF WAREHOUSE 34,500 SF/5000 SF= 7 STALLS REQUIRED

15 TOTAL STALLS REQUIRED 50 TOTAL STALLS PROVIDED (INCLUDING 2 ACCESSIBLE STALLS)

ERU CALCULATIONS 91,690 SF HARD SURFACE /4000

= 23 EQUIVALENT RESIDENTIAL UNITS

BENCHMARKS

MAXIMUM STORIES = 5

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 - GEOID12A) IARTN DERIVED - US SURVEY FEET

- BM1 N=7525020.49 E=18535546.41 ELEV=953.09 ARROW ON HYDRANT ON THE WEST SIDE OF HALBROOK PARKING LOT ±2' WEST OF THE BACK OF CURB IN LINE WITH THE CENTER OF THE MAIN HALBROOK BUILDING.
- BM2 N=7524861.02 E=18535342.25 ELEV=950.03 BURY BOLT ON HYDRANT ±2'NORTH OF THE HALBROOK DRIVEWAY AND ±250'EAST OF THE WEST END OF A DRIVE.

CONTROL POINTS

IOWA REGIONAL COORDINATE SYSTEM ZONE 8 (AMES-DES MOINES) NAD83(2011)(EPOCH 2010.00) IARTN DERIVED - US SURVEY FEET

- CP1 N=7524785.55 E=18535076.70 ELEV=946.07 SET CUT "X" ON BACK OF CURB ON THE EAST SIDE OF SE RIO COURT AT THE SOUTH END OF THE HALBROOK DRIVE.
- CP2 N=7524830.55 E=18535572.56 ELEV=951.91 SET CUT "X" ON THE SOUTH SIDE OF THE DRIVE TO HALBROOK SOUTH OF A GREEN ELECTRIC BOX.
- CP3 N=7525443.49 E=18535615.31 ELEV=946.33 SET 1/2" REBAR WITH RED PLASTIC CAP ±158' NORTH OF THE NORTH HALBROOK BUILDING IN LINE WITH THE WEST FACE OF THE BUILDING.
- N=7525332.04 E=18535218.92 ELEV=945.11 CP4 SET 1/2" REBAR WITH RED PLASTIC CAP ±30' NORTH OF AND IN LINE WITH THE EAST CHAIN-LINK FENCE OF MACQUEEN EQUIPMENT.

POLLUTION PREVENTION NOTES

- A. POLLUTION PREVENTION AND EROSION PROTECTION
- CODE COMPLIANCE: THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL POTENTIAL POLLUTION AND SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE, THE IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR) NPDES PERMIT, THE U.S. CLEAN WATER ACT AND ANY LOCAL ORDINANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT AGAINST EROSION AND POLLUTION FROM THIS PROJECT SITE AND ALL OFF-SITE BORROW OR DEPOSIT AREAS DURING PERFORMANCE OR AS A RESULT OF PERFORMANCE.
- DAMAGE CLAIMS: THE CONTRACTOR WILL HOLD THE OWNER AND ARCHITECT / ENGINEER HARMLESS FROM ANY AND ALL CLAIMS OF ANY TYPE WHATSOEVER RESULTING FROM DAMAGES TO ADJOINING PUBLIC OR PRIVATE PROPERTY, INCLUDING REASONABLE ATTORNEY FEES INCURRED TO OWNER. FURTHER, IF THE CONTRACTOR FAILS TO TAKE NECESSARY STEPS TO PROMPTLY REMOVE EARTH SEDIMENTATION OR DEBRIS WHICH COMES ONTO ADJOINING PUBLIC OR PRIVATE PROPERTY, THE OWNER MAY, BUT NEED NOT, REMOVE SUCH ITEMS AND DEDUCT THE COST THEREOF FROM AMOUNTS DUE TO THE CONTRACTOR.

B. STORM WATER DISCHARGE PERMIT

- THIS PROJECT REQUIRES COVERAGE UNDER THE NPDES GENERAL PERMIT NO. 2 FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDNR, AS REQUIRED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR COMPLIANCE WITH AND FULFILLMENT OF ALL REQUIREMENTS OF THE NPDES GENERAL PERMIT NO. 2 INCLUDING CREATING OR MAINTAINING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND POSSIBLY OBTAINING THE GENERAL PERMIT COVERAGE FROM THE IDNR.
- ALL DOCUMENTS RELATED TO THE STORM WATER DISCHARGE PERMIT, INCLUDING, BUT NOT LIMITED TO, THE NOTICE OF INTENT, PROOF OF PUBLICATIONS, DISCHARGE AUTHORIZATION LETTER, CURRENT SWPPP, SITE INSPECTION LOG, AND OTHER ITEMS, SHALL BE KEPT ON SITE AT ALL TIMES AND MUST BE PRESENTED TO ANY JURISDICTIONAL AGENCIES UPON REQUEST. FAILURE TO COMPLY WITH THE NPDES PERMIT REQUIREMENTS IS A VIOLATION OF THE CLEAN WATER ACT AND THE CODE OF IOWA.
- A "NOTICE OF DISCONTINUATION" MUST BE FILED WITH THE IDNR UPON FINAL STABILIZATION OF THE DISTURBED SITE AND REMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURES. ALL PLANS, INSPECTION REPORTS, AND OTHER DOCUMENTS MUST BE RETAINED FOR A PERIOD OF THREE YEAR'S AFTER PROJECT COMPLETION. THE CONTRACTOR SHALL RETAIN A RECORD COPY AND PROVIDE THE ORIGINAL DOCUMENTS TO THE OWNER UPON PROJECT ACCEPTANCE AND/OR SUBMITTAL OF THE NOTICE OF DISCONTINUATION.

C. POLLUTION PREVENTION PLAN:

- THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS A SEPARATE DOCUMENT IN ADDITION TO THESE PLAN DRAWINGS. THE CONTRACTOR SHOULD REFER TO THE SWPPP FOR ADDITIONAL REQUIREMENTS AND MODIFICATIONS TO THE POLLUTION PREVENTION PLAN MADE DURING CONSTRUCTION.
- 2. THE SWPPP ILLUSTRATES GENERAL MEASURES AND BEST MANAGEMENT PRACTICES (BMP) FOR COMPLIANCE WITH THE PROJECT'S NPDES PERMIT COVERAGE. ALL BMP'S AND EROSION CONTROL MEASURES REQUIRED AS A RESULT OF CONSTRUCTION ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, NOTE AND IMPLEMENT. ADDITIONAL BMP'S FROM THOSE SHOWN ON THE PLAN MAY BE REQUIRED.
- THE SWPPP AND SITE MAP SHOULD BE EXPEDITIOUSLY REVISED TO REFLECT CONSTRUCTION PROGRESS AND CHANGES AT THE PROJECT SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL PERMIT AND SWPPP, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING BMP'S UNLESS INFEASIBLE OR NOT APPLICABLE:
- UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE WHEN DISCHARGING FROM BASINS, PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATERS, DIRECT STORM WATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORM WATER INFILTRATION, AND MINIMIZE SOIL COMPACTION.
- INSTALL PERIMETER AND FINAL SEDIMENT CONTROL MEASURES SUCH AS SILT BARRIERS, DITCH CHECKS, DIVERSION BERMS, OR SEDIMENTATION BASINS DOWNSTREAM OF SOIL DISTURBING ACTIVITIES PRIOR TO SITE CLEARING AND GRADING OPERATIONS.
- c. PRESERVE EXISTING VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION AND LIMIT TO A MINIMUM THE TOTAL AREA DISTURBED BY CONSTRUCTION OPERATIONS AT ANY TIME.
- MAINTAIN ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES IN WORKING ORDER, INCLUDING CLEANING, REPAIRING, REPLACEMENT, AND SEDIMENT REMOVAL THROUGHOUT THE PERMIT PERIOD. CLEAN OR REPLACE SILT CONTROL DEVICES WHEN THE MEASURES HAVE LOST 50% OF THEIR ORIGINAL CAPACITY.
- INSPECT THE PROJECT AREA AND CONTROL DEVICES (BY QUALIFIED PERSONNEL ASSIGNED BY THE CONTRACTOR) EVERY SEVEN CALENDAR DAYS. RECORD THE FINDINGS OF THESE INSPECTIONS AND ANY RESULTING ACTIONS IN THE SWPPP WITH A COPY SUBMITTED WEEKLY TO THE OWNER OR ENGINEER DURING CONSTRUCTION. REVISE THE SWPPP AND IMPLEMENT ANY RECOMMENDED MEASURES WITHIN 7 DAYS.
- PREVENT ACCUMULATION OF EARTH AND DEBRIS FROM CONSTRUCTION ACTIVITIES ON ADJOINING PUBLIC OR PRIVATE PROPERTIES, INCLUDING STREETS, DRIVEWAYS, SIDEWALKS, DRAINAGEWAYS, OR UNDERGROUND SEWERS. REMOVE ANY ACCUMULATION OF EARTH OR DEBRIS IMMEDIATELY AND TAKE REMEDIAL ACTIONS FOR FUTURE PREVENTION.
- INSTALL NECESSARY CONTROL MEASURES SUCH AS SILT BARRIERS, EROSION CONTROL MATS, MULCH, DITCH CHECKS OR RIPRAP AS SOON AS AREAS REACH THEIR FINAL GRADES AND AS CONSTRUCTION OPERATIONS PROGRESS TO ENSURE CONTINUOUS RUNOFF CONTROL. PROVIDE INLET AND OUTLET CONTROL MEASURES AS SOON AS STORM SEWERS ARE INSTALLED.
- RESPREAD A MINIMUM OF 8 INCHES OF TOPSOIL (INCLUDING TOPSOIL FOUND IN SOD) ON ALL DISTURBED AREAS, EXCEPT WHERE PAVEMENT, BUILDINGS OR OTHER IMPROVEMENTS ARE LOCATED.
- STABILIZE UNDEVELOPED, DISTURBED AREAS WITH MULCH, TEMPORARY SEED MIX, PERMANENT SEED MIX, OR SOD AS SOON AS PRACTICAL UPON COMPLETION OR DELAY OF GRADING OPERATIONS. INITIATE STABILIZATION MEASURES NO LATER THAN 14 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY HAS FINISHED OR IS PLANNED TO BE DELAYED MORE THAN 21 CALENDAR DAYS.
- COORDINATE LOCATIONS OF STAGING AREAS WITH THE OWNER AND RECORD IN THE SWPPP. UNLESS NOTED OTHERWISE, STAGING AREAS SHOULD CONTAIN THE FOLLOWING: JOB TRAILERS, FUELING / VEHICLE MAINTENANCE AREA, TEMPORARY SANITARY FACILITIES, MATERIALS STORAGE, AND CONCRETE WASHOUT FACILITY. CONTROL RUNOFF FROM STAGING AREAS WITH DIVERSION BERMS AND/OR SILT BARRIERS AND DIRECT TO A SEDIMENT BASIN OR OTHER CONTROL DEVICE WHERE POSSIBLE. CONCRETE WASHOUT MUST BE CONTAINED ONSITE.
- k. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND SITE WASTE PRIOR TO FILING OF THE "NOTICE OF DISCONTINUATION".

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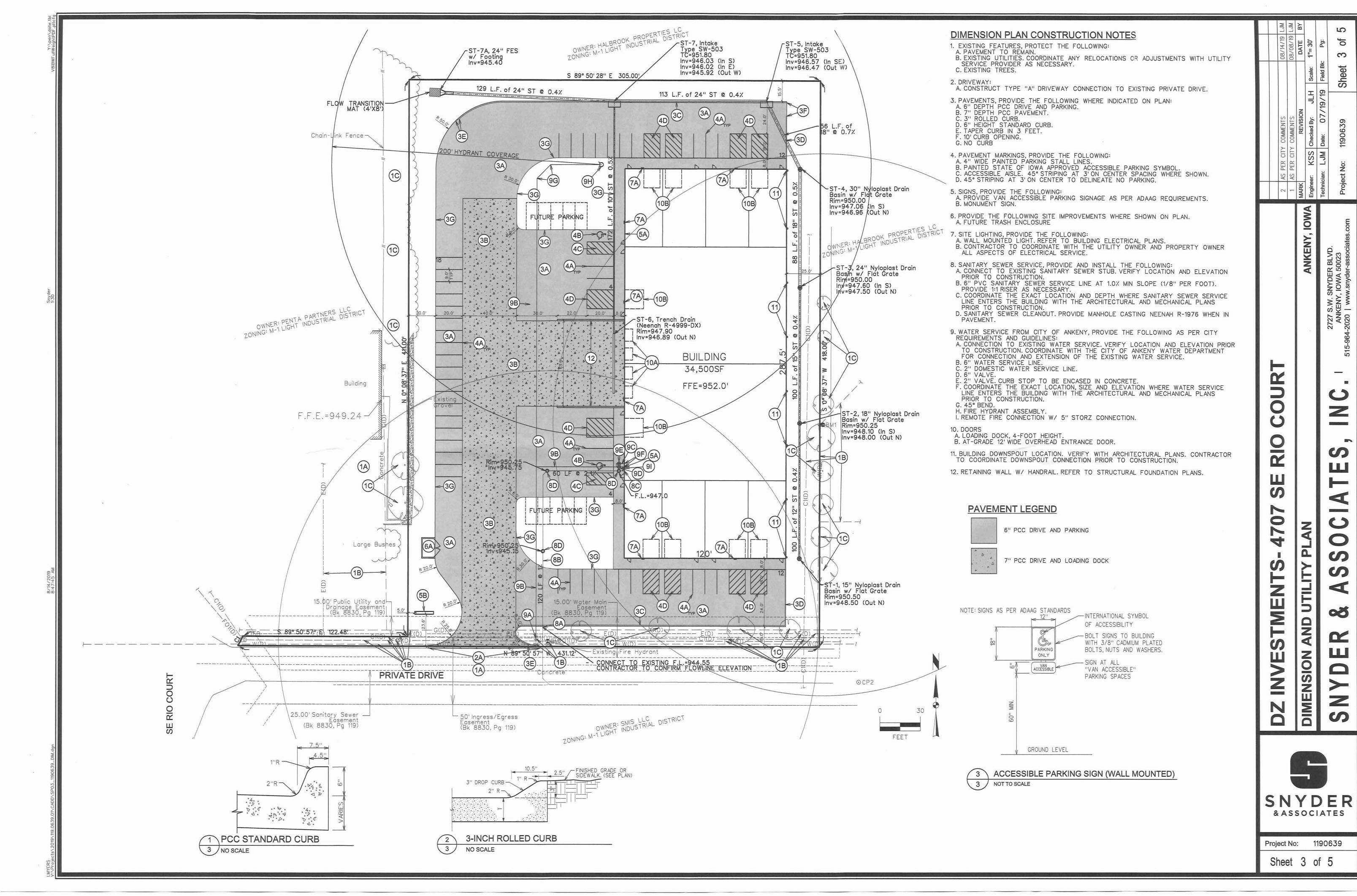
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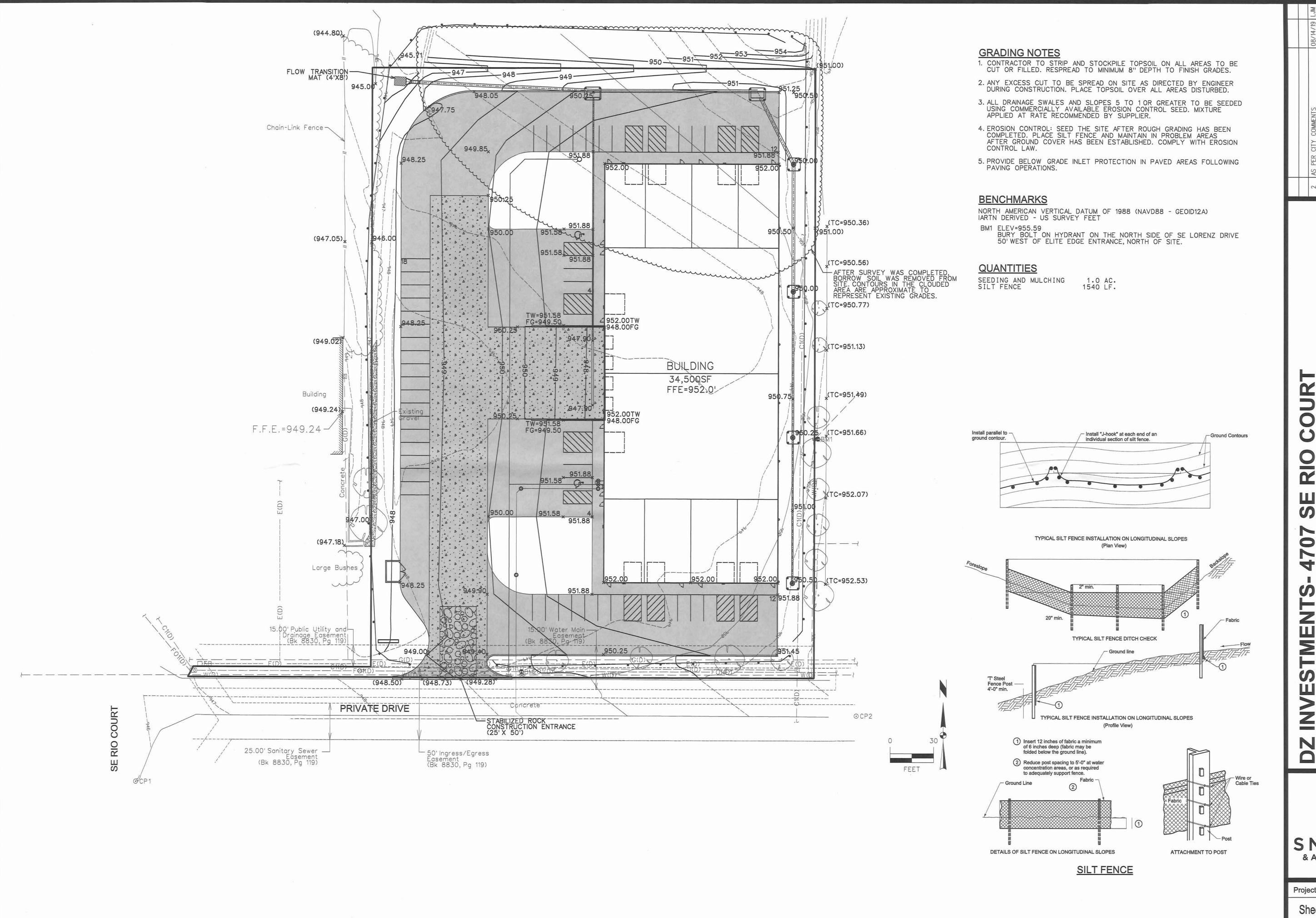
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DZ INVESTMENTS- 4707 SE RIO COURT GRADING AND EROSION CONTROL PLAN

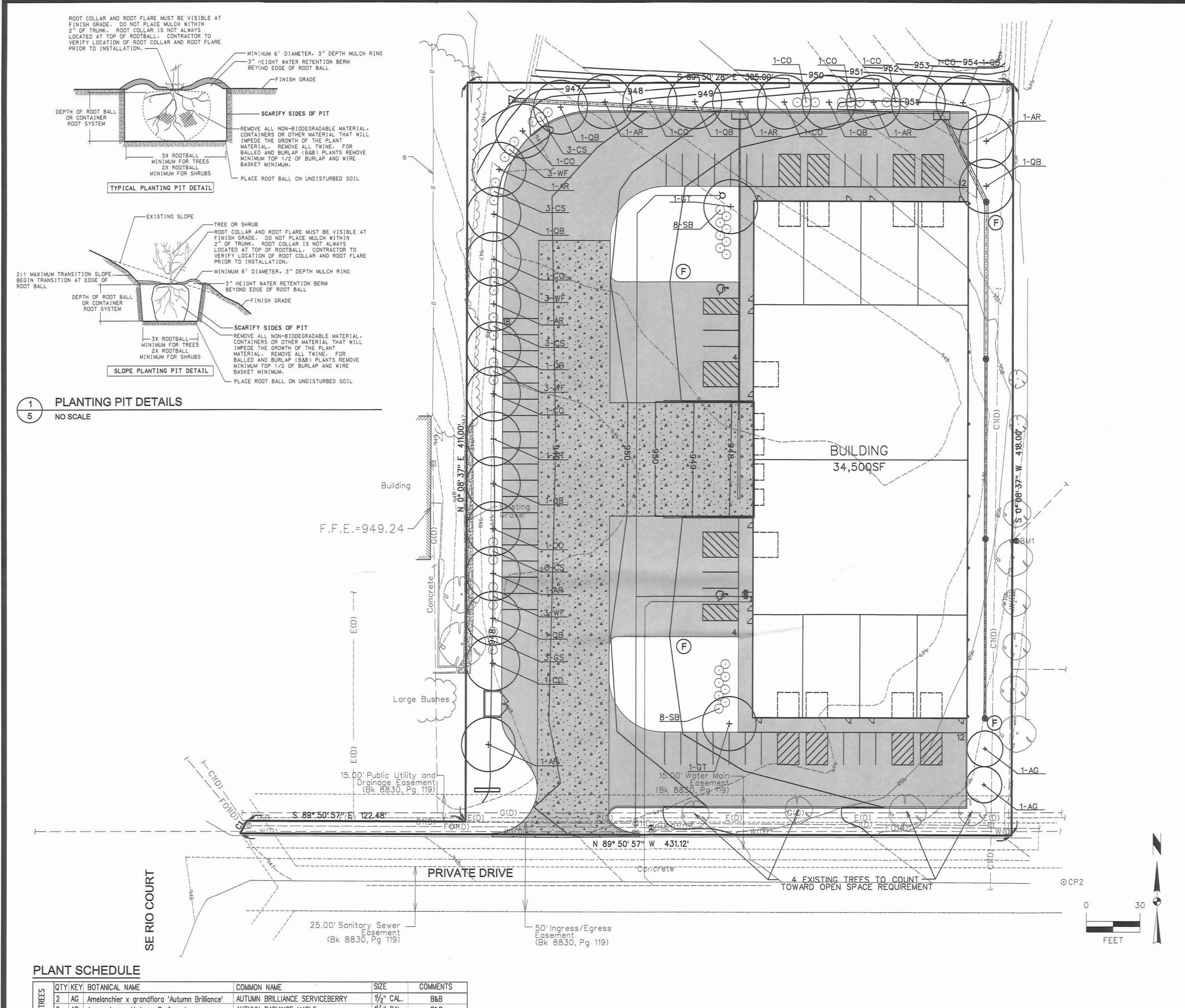
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PLANTING PLAN REQUIREMENTS

LANDSCAPE REQUIREMENTS AND CALCULATIONS:
(AS PER CITY OF ANKENY SITE PLAN OPEN SPACE AND LANDSCAPING REQUIREMENTS)

OPEN SPACE REQUIREMENTS:

128,365 SF (2.95 AC.) OVERALL PROPERTY X 20% MIN. OPEN SPACE = 25,673 SF OPEN SPACE REQ'D

TOTAL HARDSURFACE (DRIVES, PARKING AND BUILDINGS) 93,240 SF (35,125 SF) = 27.4% TOTAL OPEN SPACE PROVIDED

OPEN SPACE LANDSCAPE REQUIREMENTS: 25,673 SF/ 3000SF = 8.5 PLANT UNITS REQ'D. 8.5 PU X 2 TREES = 17 TREES REQ'D, (17 PROVIDED) 8.5 PU X 6 SHRUBS = 51 REQ'D, (52 PROVIDED)

PAVEMENT SHADING REQUIREMENTS:
58,740 SF OF PAVEMENT X 20% = 11,748 SF
11,748/ 706 SF =16.6 OVERSTORY TREES REQ'D (17 PROVIDED)

---- (30) PAVEMENT OVERSTORY TREES PROVIDED WITHIN 15' OF PAVED AREA ON ONE SIDE (COUNTED AT 50%)

OF PAVED AREA ON 2 OR MORE SIDES (COUNTED AT 100%)

---- 7,060 SF PAVEMENT SHADING PROVIDED

PLANTING PLAN GENERAL NOTES

A. UTILITY WARNING:
THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY
INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO
GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN
THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES
NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION
INDICATED.

B. NOTIFY UTILITY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION.
CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT
LOCATION AND DEPTH OF ALL UTILITIES. AVOID DAMAGE TO UTILITIES AND
SERVICES DURING CONSTRUCTION. ANY DAMAGE DUE TO THE CONTRACTOR'S
CARELESSNESS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
COORDINATE AND COOPERATE WITH UTILITY COMPANIES DURING
CONSTRUCTION.

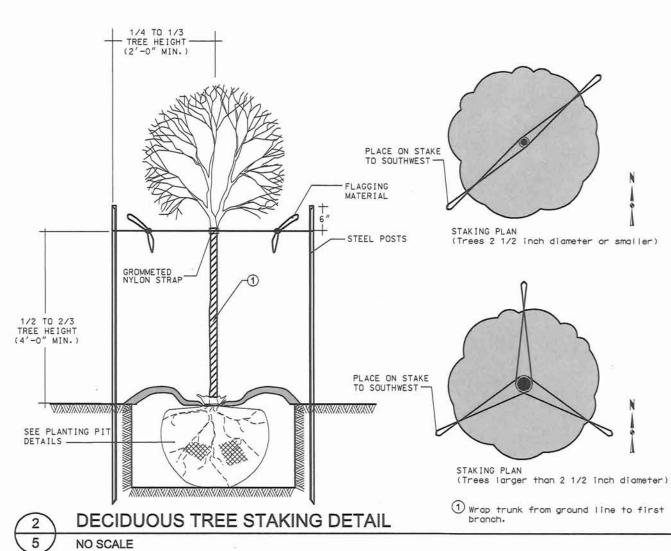
C. ALL PLANT MATERIAL SHALL AT LEAST MEET MINIMUM REQUIREMENTS SHOWN IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1-LATEST EDITION).

D. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF INSTALLATION.

E. PROVIDE 3-INCH DEPTH SHREDDED HARDWOOD MULCH IN ALL PLANT BED AREAS INDICATED ON PLAN.

F. SEED ALL AREAS DISTURBED BY CONSTRUCTION WITH TYPE 1 SUDAS PERMANENT LAWN SEED MIX, OR APPROVED EQUAL.

G. PROVIDE 3-INCH DEPTH SHREDDED HARDWOOD MULCH RING AROUND ALL TREES TO A MIN 3-FOOT PERIMETER. PROVIDE VERTICAL CUT NATURAL EDGE TO A DEPTH OF 4-INCHES.



()	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
IKEES	2	AG	Amelanchier x grandflora 'Autumn Brilliance'	AUTUMN BRILLIANCE SERVICEBERRY	11/2" CAL.	B&B
	9	AR	Acer rubrum 'Autumn Radiance'	AUTUMN RADIANCE MAPLE	1/2" CAL.	B&B
5	8	CO	Celtis occidentalis 'Prairie Pride'	PRAIRIE PRIDE HACKBERRY	11/2" CAL.	B&B
2	2	GT	Gledtisia triacanthos var. inermis 'Skyline'	SKYLINE HONEYLOCUST	1/2" CAL.	B&B
UVERSIURI	9	QB	Quercus bicolor	SWAMP WHITE OAK	11/2" CAL.	B&B
SHRUBS	18	CS	Cornus stolonifera 'Farrow'	ARCTIC FIRE DAGWOOD	36" Ht.	CONT. (6' O.C.)
	16	SB	Spiraea x bumalda 'Anthony Waterer'	ANTHENY WATERER SPIREA	36" HT.	CONT. (5' O.C.)
	18	WF	Weigela florida 'Alexandra'	WINE & ROSES WEIGELA	24" Ht.	CONT. (5' O.C.)

NOTE: QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY PLANT MATERIAL PRIOR TO BIDDING. IN THE CASE OF A DISCREPANCY, THE PLAN QUANTITY SHALL GOVERN.

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