

# ROCHESTER COLLEGE

## FIELD HOUSE

ROCHESTER HILLS, MICHIGAN  
PROJECT NO. 2015-047

DECEMBER 1, 2015  
JANUARY 18, 2016

AMENDED SITE PLAN SUBMITTAL  
REVISED SITE PLAN

### LIST OF DRAWINGS - SITE PLAN

#### IMAGES

I-1.01 AERIAL VIEW FROM SOUTHWEST

#### CIVIL

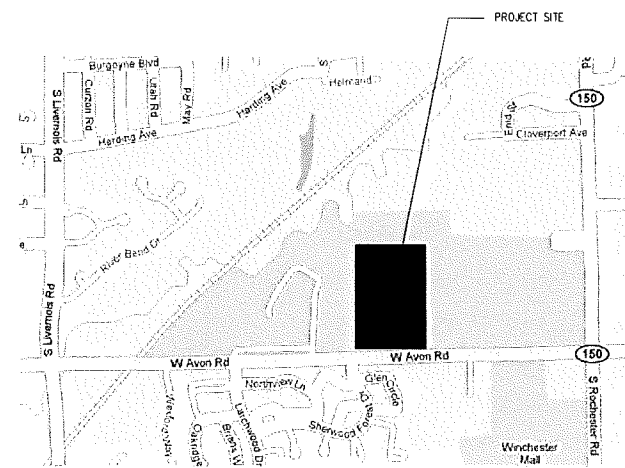
- P-1.1 BOUNDARY SURVEY
- P-1.2 PARTIAL TOPOGRAPHIC SURVEY
- P-1.3 EXISTING TREE SURVEY
- P-6.1 EXISTING DRAINAGE PLAN AND CALCULATIONS
- CO.1 CONCEPTUAL OVERALL SITE PLAN
- CO.2 CONCEPTUAL DEMOLITION PLAN
- CO.3A CONCEPTUAL UTILITY PLAN
- CO.3B CONCEPTUAL FIRE TRUCK PLAN
- CO.4A CONCEPTUAL GRADING PLAN (WEST)
- CO.4B CONCEPTUAL GRADING PLAN (EAST)
- CO.5A CONCEPTUAL PAVING PLAN
- CO.5B WDOT CURB RAM DETAILS
- CO.6 CONCEPTUAL DRAINAGE MAP
- L.1 OVERALL SITE LANDSCAPE PLAN
- L.2 LANDSCAPE PLAN ENLARGEMENT
- L.3 LANDSCAPE DETAILS

#### ARCHITECTURAL

- A0.01 CODE PLAN
- A2.01 FIRST FLOOR PLAN
- A2.02 SECOND FLOOR PLAN
- A2.03 ROOF PLAN
- A4.01 EXTERIOR ELEVATIONS
- A4.02 EXTERIOR ELEVATIONS

#### ELECTRICAL

- ES2.00 ELECTRICAL SITE PLAN
- ES2.01 ELECTRICAL SITE PLAN - PHOTOMETRICS



**LOCATION MAP**  
SCALE: NOT TO SCALE

#### SITE ANALYSIS

##### ZONING

EXISTING SITE ZONED	PUD
ADJACENT SITE ZONING	
NORTH	PUD
SOUTH	RM-1
EAST	PUD
WEST	PUD

##### SITE AREA

GROSS SITE AREA	76.23 ACRES
PROPOSED SITE COVERAGE	2%

##### BUILDING REGULATIONS

FIRST FLOOR BUILDING AREA	21,880 S.F.
MEZZANINE AREA	1,552 S.F.
TOTAL BUILDING AREA	23,432 S.F.
PROPOSED BUILDING HEIGHT	31 FT. A.F.F.

PROPOSED BUILDING STORIES 1 STORY W/ MEZZ.

##### REQUIRED BUILDING SETBACKS (SP ZONING)

FRONT	50 FEET
SIDE	50 FEET
REAR	50 FEET

##### PROPOSED BUILDING SETBACKS

FRONT	94 FEET
SIDE	1045 FEET (WEST) 405 FEET (EAST)
REAR	915 FEET

##### PARKING REQUIREMENTS

EXISTING DORMITORY (352 BEDS • 1 PER 2 BEDS)	176 PARKING SPACES
EXISTING CHAPEL (210 SEATS • 1 PER 3 SEATS + 2 STAFF • 1 PER 2 STAFF)	71 PARKING SPACES
EXISTING THEATER (200 SEATS • 1 PER 3 SEATS + 2 STAFF • 1 PER 2 STAFF)	68 PARKING SPACES
NEW GYMNASIUM (868 SEATS • 1 PER 3 SEATS)	290 PARKING SPACES
<b>TOTAL PARKING SPACES REQUIRED</b>	<b>605 PARKING SPACES</b>

EXISTING PARKING SPACES PROVIDED 530 PARKING SPACES

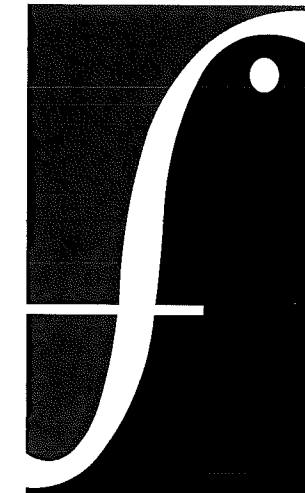
NEW PARKING PROPOSED	79 PARKING SPACES
<b>TOTAL PARKING AVAILABLE</b>	<b>609 PARKING SPACES</b>

BARRIER FREE PARKING REQUIREMENTS-  
NEW FIELDHOUSE:  
12 SPACES IN EXISTING PARKING LOT  
WEST OF BUILDING PLUS 79 NEW  
PARKING SPACES - 191 PARKING SPACES  
SO 8 BARRIER FREE SPACES ARE  
REQUIRED

BARRIER FREE PARKING REQUIREMENTS-  
CAMPUS WIDE:  
609 TOTAL PARKING SPACES SO 18  
BARRIER FREE SPACES ARE REQUIRED

LOADING SPACE REQUIRED:  
(1 SPACE + 1 SPACE FOR EACH  
20,000 S.F. OVER 20,001 S.F.)

LOADING SPACE PROVIDED: 1 SPACES (10'X50')



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City File No. 15-022, Parcel No. 15-15-451-008







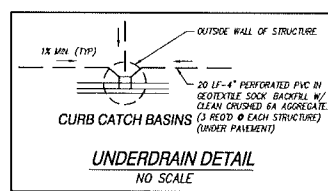










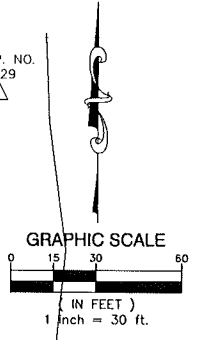


**RIM ADJUSTMENT NOTE:**  
REMOVE EXISTING CASTING COVER AND ADJUSTMENT BRICKS FROM DRAINAGE STRUCTURE. REMOVE CASTING AND COVER FOR REINSTALLATION AND PROPER RISE AND ADJUSTMENT BRICKS REINSTALL ACCORDING TO LOCAL STANDARD REQUIREMENTS. PROTECT EXISTING UTILITY STRUCTURE TO REMAIN.

- DOWNSPOUT NOTES**
1. ALL DOWNSPOUT 6\"/>

**LEGEND**

---	PROPOSED WATERMAIN
---	PROPOSED SANITARY
---	PROPOSED STORM SEWER
---	PROPOSED GAS MAIN
---	PROPOSED ELECTRIC
●	PROPOSED HYDRANT
○	PROPOSED C&E
○	PROPOSED VALVE & WELL (C&E)
○	PROPOSED TAPPING SLEEVE VALVE & WELL (TSVM)
○	PROPOSED SAN MANHOLE (SMH)
○	PROPOSED STORM MANHOLE (SMH)
○	PROPOSED CATCH BASIN (CB)
○	PROPOSED INLET (IN)
○	PROPOSED END SECTION (ES)
○	PROPOSED FIELD CATCH BASIN (FCB) W/ BEEHIVE COVER OR STANDPIPE (SP) W/ BAR GRATE COVER
□	STANDARD BITUMINOUS PAVEMENT
□	HEAVY-DUTY BITUMINOUS PAVEMENT
□	DEEP-STRENGTH BITUMINOUS PAVEMENT
□	CONCRETE PAVEMENT
□	CONCRETE PAVEMENT
□	CONCRETE SIDEWALK
□	MILL PAVEMENT
○	UTILITY CROSSING (SEE DATA TABLE)
○	STRUCT. TYPE
○	STRUCT. NO.
○	STRUCT. NO.
○	STRUCT. TYPE



- UTILITY NOTES**
1. STORM SEWER 12\"/>
  2. STORM SEWER 6\"/>
  3. SANITARY SEWER SHALL BE PVC THRU PIPE. LEADS SHALL BE SOLED WALL, PVC, SDR 21.5.
  4. WATER MAIN SHALL BE CLASS 54 DUCTILE IRON. WATER MAINS SHALL BE LEAKAGE AND PRESSURE TESTED IN ACCORDANCE WITH MINN STANDARD CODE. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH MINN STANDARD CODE PRIOR TO BEING PUT INTO SERVICE.
  5. ALL UTILITY TRENCHES THAT FALL WITHIN A 1'-0\"/>
  6. ALL WATER MAIN SHALL BE BURIED WITH 6\"/>
  7. WHERE HYDRANTS ARE INDICATED ON THE PLAN, COMPLETE HYDRANT ASSEMBLIES ARE REQUIRED, INCLUDING SHUT-OFF VALVE AND BOX (REFER TO THE STANDARD DETAIL SHEET FOR DETAILS). RECONSTRUCT THE ELEVATION OF THE VALVE BOX SHALL BE EQUAL TO THE FINISH GRADE (FG) ELEVATION OF THE HYDRANT UNLESS OTHERWISE NOTED.
  8. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS.
  9. ALL UTILITIES SHALL BE INSTALLED ON CLASS "B" BEDROCK OR BETTER.
  10. ALL HYDRANTS MUST BE AT LEAST 5' FROM THE BACK OF CURB OR EDGE OF PAVEMENT.
  11. ALL UTILITIES SHALL BE PLACED AT LEAST 10' FROM OTHER UTILITIES, SIGNIFICANT TREES, AND FIXED STRUCTURES.
  12. UNLESS OTHERWISE NOTED, ALL STORM SEWER STRUCTURES SHALL BE 4' DIAMETER (REETS SHALL BE 2' DIAMETER) UNLESS OTHERWISE INDICATED ON THE STANDARD DETAIL SHEETS. CASTINGS SHALL BE: PINK CAST IRON - 15\"/>
  13. PLACEMENT OF EDGE DRAINS AND FINER DRAINS AT ALL CATCH BASINS IS REQUIRED. SEE DETAIL, INVS SHEET.
  14. FOR CURB CATCH BASINS, SEE BASH LOCATION DETAIL FOR BASH STAKING RELATIVE TO THE CURB.
  15. SANITARY MANHOLE COVERS SHALL BE LABELED "SANITARY SEWER" ONLY. REFER TO STANDARD DETAIL SHEET FOR REQUIRED TEST OF UTILITY CASTINGS.
  16. LOCATIONS OF LIGHT POLES, IF SHOWN ON THESE DRAWINGS, MAY BE APPROXIMATE. CONFIRM EXACT LOCATION (IE CURB OFFSETS, SIDEWALK OFFSETS, ETC.) PRIOR TO STAKING AND CONSTRUCTION. REFER TO SITE ELECTRICAL PLAN FOR DETAILS, AND COORDINATE WITH ELECTRICAL ENGINEER, ARCHITECT, AND CIVIL ENGINEER TO DETERMINE PROPER PLACEMENT.
  17. THESE THESE PLANS DEPART FROM THE STANDARD DETAILS OR STANDARD SPECIFICATIONS OF THE COMMUNITY, THE COMMUNITY REQUIREMENTS SHALL GOVERN.

TOPOGRAPHIC AND/OR BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY OTHERS TO THE OWNER. CREATIVE SITE SOLUTIONS, PLC. WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN QUESTIONS RESULTING FROM SURVEY INACCURACIES.

not to be used as construction drawings

City File # 15-022, Parcel # 15-15-451-008

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01/18/2016	REVISED SITE PLAN

DRAWN	CHECKED	APPROVED
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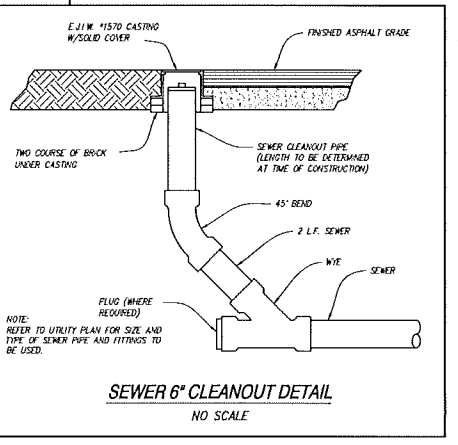
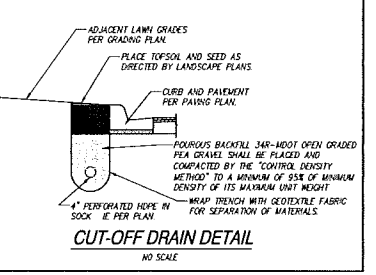
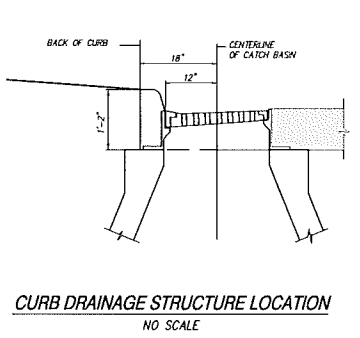
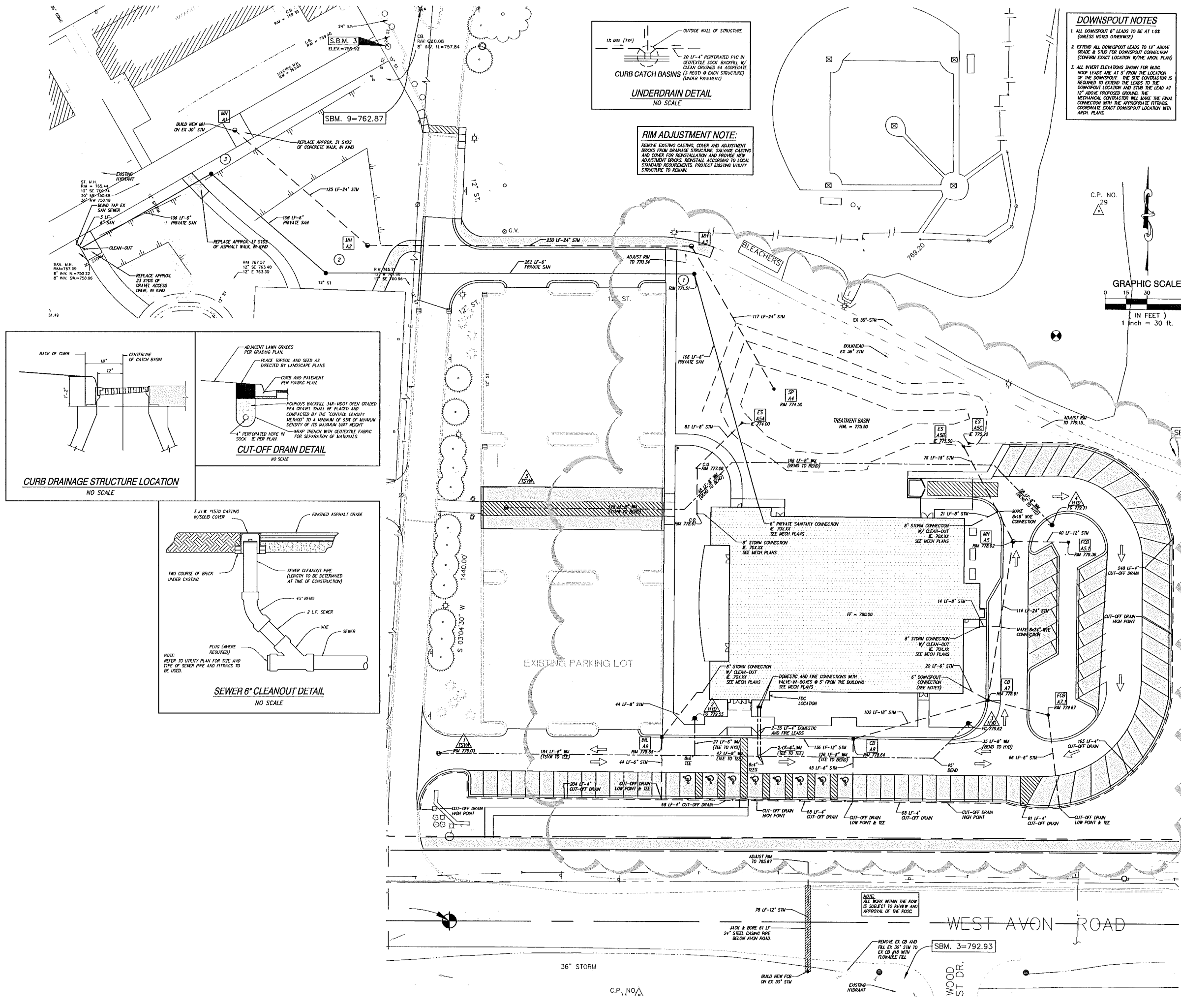
PROJECT  
Rochester College Field House

Rochester Hills, Michigan

Conceptual Utility Plan

PROJECT NUMBER  
2015-047

SHEET NUMBER  
C0.3A



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2015-047 - Prop. Civil Eng.













THE SIGHT DISTANCE INFORMATION PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY. THE CONTRACTOR SHALL FIELD LAYOUT, VERIFY, AND REVIEW ALL SIGHT DISTANCE REQUIREMENTS DURING CONSTRUCTION WITH THE CITY OF ROCHESTER HILLS ENGINEER TO ENSURE IT MEETS THE SIGHT VISIBILITY REQUIREMENTS. THE CONTRACTOR SHALL REVIEW THE CITY OF ROCHESTER HILLS STANDARD DETAILS FOR SIGHT DISTANCE FOR ROADWAYS AND SIGHT DISTANCE FOR PATHWAYS.

THE DESIGN TEAM SHALL NOT BE HELD RESPONSIBLE FOR INACCURACIES OF THE SURVEY PROVIDED. THERE IS NO PROPOSED LANDSCAPE WORK WITHIN THE SIGHT VISIBILITY AREA. IF ANY EXISTING FEATURE ON SITE IS CONFLICTING WITH THE SIGHT LINES, THE CONTRACTOR SHALL REVIEW THE OBSTRUCTION WITH THE CITY ENGINEER. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MEET THE SIGHT LINE REQUIREMENTS DURING CONSTRUCTION.



**PLANT SCHEDULE (THIS SHEET ONLY)**

SYM.	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOTS	COMMENTS	\$/UNIT	\$ TOTAL
AR	39	Acer rubrum	Red Maple 'October Glory'	3" cal.	B4B	Plant As Shown	\$450	\$17,550.00
CS	191	Cornus sericea 'Bergeson's Compact'	Bergeson Compact Dogwood	#5	Conf.	Plant 30" O.C.	\$75	\$14,325.00
GT	21	Gleditsia triacanthos 'Skycoke'	Skyline Honey Locust	3" cal.	B4B	Plant As Shown	\$400	\$6,400.00
MP	23	Malus x 'Prairiefire'	'Prairiefire' Flowering Crab	2"	B4B	Plant As Shown	\$300	\$6,900.00
PO	3	Picea omorika	Serbian Spruce	10' Ht.	B4B	Plant As Shown	\$750	\$2,250.00
TO	17	Thuja occidentalis 'Techny'	Techny Arborvitae	5' Ht.	B4B	Plant 30" O.C.	\$125	\$2,125.00
OB	8	Quercus bicolor	Swamp Oak	3"	B4B	Plant As Shown	\$475	\$3,800.00
								\$55,350.00

- KEY:
- DENOTES RIGHT-OF-WAY TREE
  - DENOTES PERIMETER TREE
  - DENOTES REPLACEMENT TREE
  - DENOTES PARKING ISLAND TREE

**SITE DATA:**

**TREE REMOVAL AND REPLACEMENT CALCULATIONS:**  
 (18) 1"4" SPRUCE TREES TO BE REMOVED FOR CONSTRUCTION (GREATER THAN 6" DBH)  
 REPLACEMENT TREES REQUIRED: (9) 3" CAL. OR 10' HT. EVERGREEN TREES  
 REPLACEMENT TREES PROVIDED: (6) 3" SHADE TREES, AND (3) 10' EVERGREEN TREES  
 (ALL REPLACEMENT TREES PROVIDED ON SITE)

**PROPOSED PARKING LOT INTERIOR REQUIREMENTS:**  
 5% OF PARKING LOT + 1 DECIDUOUS TREE PER 150 SF INTERIOR LANDSCAPE REQUIRED.  
 83,650 SF PARKING LOT + DRIVES X .05 = 4,182.50 (ROUND TO 4,183) REQUIRED  
 AREA. ISLAND AREA PROPOSED = 6,300 SF  
 4,183 / 50 = 27.88 (28) TREES REQUIRED  
 28 TREES PROVIDED

**PERIMETER PARKING LOT TREE REQUIREMENTS (AVON ROAD - 477 LF):**  
 (1) DECIDUOUS SHADE TREE PER EACH 25 LF  
 (1) ORNAMENTAL TREE PER EACH 35 LF  
 (1) DECIDUOUS SHRUB TO FORM CONTINUOUS HEDGE, 30" O.C.  
 477 LF FRONTING AVON ROAD =  
 (19) DECIDUOUS TREES REQUIRED; (19) DECIDUOUS TREES PROVIDED  
 (14) ORNAMENTAL TREES REQUIRED; (14) ORNAMENTAL TREES PROVIDED  
 (19) SHRUBS REQUIRED; (19) SHRUBS PROVIDED

**RIGHT-OF-WAY REQUIREMENTS (APPROX. 535 LF):**  
 (1) DECIDUOUS TREE PER 35 LF + 1 ORNAMENTAL TREE PER 60 LF  
 (15) DECIDUOUS REQUIRED; (15) DECIDUOUS PROVIDED  
 (9) ORNAMENTAL REQUIRED; (9) ORNAMENTAL PROVIDED

**GENERAL PLANTING & LANDSCAPE NOTES:**

1. LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING SITE CONDITIONS, AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON-SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION OR HIGHER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNERS REPRESENTATIVE PRIOR TO COMMENCING.
3. ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK, AND SHALL SATISFY AMERICAN ASSOCIATION OF NURSEYMEN STANDARD FOR NURSERY STOCK. ALL LANDSCAPE MATERIAL SHALL BE NORTHERN GROWN, NO. 1 GRADE.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
5. THE OWNERS REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
6. ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND SYMMETRICAL CROWNS.
7. ALL SINGLE STEM SHADE TREES TO HAVE A CENTRAL LEADER. TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
8. ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.
9. ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST 5 GROWING SEASONS.
10. ALL TREES TO HAVE CLAY OR CLAY LOAM ROOTBALLS. TREES WITH SAND ROOTBALLS WILL BE REJECTED.
11. NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES. HAND GRADE ALL AREAS WITHIN THE DRIP LINE OF EXISTING TREES.
12. ALL TREE LOCATIONS SHALL BE STAKED BY LANDSCAPE CONTRACTOR AND ARE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL.
13. IT IS MANDATORY THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM ALL BUILDINGS.
14. ALL PLANTING BEDS SHALL RECEIVE 4" SHREDDED HARDWOOD BARK MULCH. SHREDDED PALLET AND DYED MULCH WILL NOT BE ACCEPTED.
15. ALL LANDSCAPE AREAS SHALL RECEIVE A MINIMUM OF 8" COMPACTED PLANTING MIX.
16. ALL LAWN AND PLANTING BEDS TO HAVE AN IN-GROUND AUTOMATIC IRRIGATION SYSTEM. PROVIDE 100% COVERAGE FOR ALL LANDSCAPE AREAS. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE DESIGNED TO MINIMIZE WATER USAGE, AND SHALL BE SHUT OFF DURING WATER EMERGENCIES, PERIODS OF PROTRACTED RAINFALL, OR WATER RATIONING PERIODS.
17. AN IRRIGATION PLAN SHALL BE PROVIDED AT TIME OF FINAL LANDSCAPE PLAN.
18. PLANT MATERIAL ADJACENT TO PDC CONNECTIONS ARE TO ALLOW FOR VISUAL CLEARANCE.
19. TREE PROTECTION FENCING MUST BE INSTALLED, INSPECTED, AND APPROVED BY THE CITY'S LANDSCAPE ARCHITECT PRIOR TO THE ISSUANCE OF THE LAND IMPROVEMENT PERMIT FOR THIS DEVELOPMENT.
20. PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB ON THE PUBLIC RIGHT-OF-WAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC ROAD. SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5' FROM THE PUBLIC WALKWAY. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC WALKWAY. NO TREES OR SHRUBS MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-WAY LINES AT A DISTANCE ALONG EACH LINE OF 25' FROM THEIR POINT OF INTERSECTION. NO TREES OR SHRUBS MAY BE PLANTED IN THE TRIANGLE FORMED BY THE INTERSECTION OF ANY DRIVEWAY AND A PUBLIC WALKWAY AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF INTERSECTION. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY HYDRANT. SHADE AND EVERGREEN TREES MUST BE PLANTED AT LEAST 15' FROM THE NEAREST OVERHEAD WIRE. TREES MUST BE PLANTED A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY. UNLESS THE CITY'S LANDSCAPE ARCHITECT REQUIRES A GREATER DISTANCE. THESE REQUIREMENTS ARE INCORPORATED INTO THE PLAN.
21. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS FORESTRY DIVISION NEEDS TO INSPECT ALL TREES, EXISTING OR PLANTED, TO IDENTIFY ANY THAT POSE A HAZARD TO THE SAFE USE OF THE PUBLIC RIGHT-OF-WAY. FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE, AND POSSIBLY REPLACE ANY SUCH TREES. THESE REQUIREMENTS ARE INCORPORATED INTO THE PLAN.
22. A 2-YEAR WARRANTY IS REQUIRED FOR ALL PLANTS.
23. ALL DUMPSTEPS AND MECHANICAL AREAS SHALL BE SCREENED PER THE ORDINANCE.
24. ALL SIGNS MUST MEET CHAPTER 134 OF THE CITY CODE OF ORDINANCES AND BE APPROVED UNDER A SEPARATE PERMIT ISSUED BY THE BUILDING DEPARTMENT.

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City File No. 94-4268, Section 15

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01/01/2016	REVISED SITE PLAN

DRAWN
CHECKED
APPROVED

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Rochester College Field House

Rochester Hills, Michigan

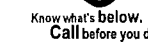
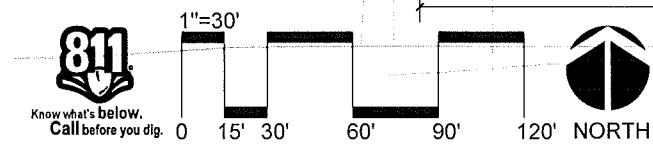
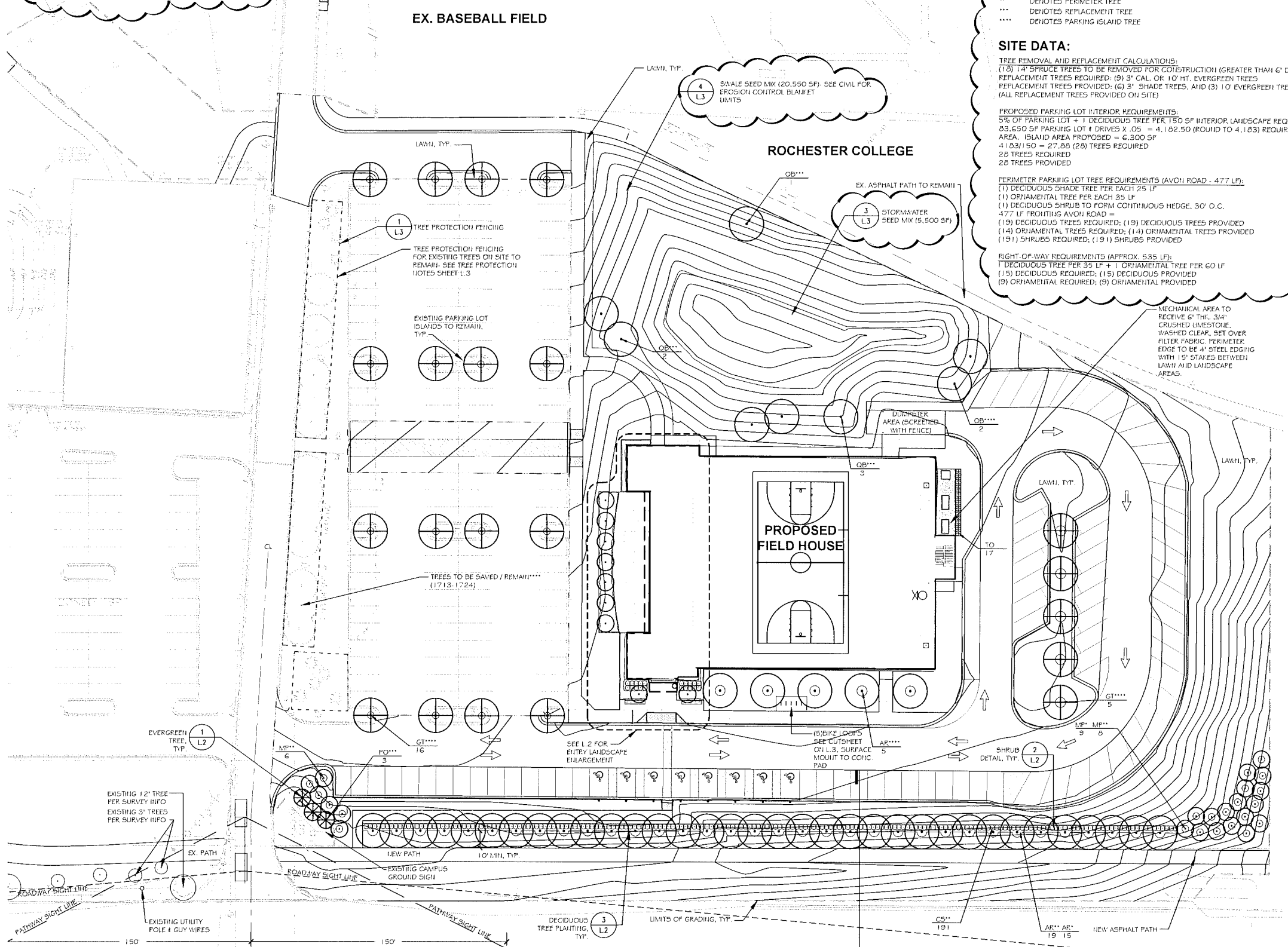
OVERALL LANDSCAPE PLAN

PROJECT NUMBER

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SHEET NUMBER

L.1







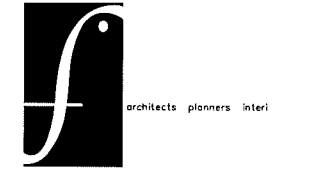


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PROJECT  
 Rochester College Field House

Rochester Hills, Michigan  
 SHEET  
 LANDSCAPE DETAILS, SECTIONS & NOTES  
 PROJECT NUMBER

2015-047  
 SHEET NUMBER  
 L.3



Botanical Name	Common Name	PLS Quinces/Acre	Seeds/Oz	Seeds/SQ FT
<b>Permanent Grasses/Sedges/Rushes:</b>				
<i>Bolboschoenus flavus</i>	River Bulrush	0.25	27500	0.16
<i>Carex cristata</i>	Crested Owl Sedge	2.00	55000	2.71
<i>Carex lasida</i>	Belted Sedge	3.00	12000	0.63
<i>Carex vulpinoidea</i>	Brown Fox Sedge	6.00	122000	17.22
<i>Elymus virginicus</i>	Virginia Wild Rye	12.50	4375	1.36
<i>Cyrtus strata</i>	Fowl Mama Grass	1.25	12500	3.59
<i>Juncus effusus</i>	Common Rush	2.00	281000	12.50
<i>Rice Cut Grass</i>	Rice Cut Grass	1.00	94500	2.17
<i>Stachys crassa</i>	Switch Grass	2.00	28350	1.30
<i>Schoenoplectus tabernaemontani</i>	Softstem Bulrush	3.00	37813	2.6
<i>Scirpus atrovirens</i>	Dark Green Rush	2.00	187500	8.61
<i>Scirpus cyperinus</i>	Wood Grass	1.00	552500	12.91
<b>Total</b>		<b>37.00</b>		<b>66.19</b>
<b>Temporary Cover:</b>				
<i>Avena sativa</i>	Common oat	360.00	8125	67.15
<i>Lolium multiflorum</i>	Annual Rye	100.00	14158	32.57
<b>Total</b>		<b>460.00</b>		<b>99.72</b>
<b>Forbs &amp; Shrubs:</b>				
<i>Alisma spp</i>	Water Plantain (var)	4.25	70175	6.65
<i>Asclepias incarnata</i>	Swamp Milkweed	1.50	4540	0.16
<i>Bidens spp</i>	Bidens (Various Mx)	2.00	14175	0.65
<i>Helianthus autumnalis</i>	Shoosweet	2.00	141750	6.61
<i>Impatiens</i>	Blue Flag	4.00	1400	0.13
<i>Lysichiton americanus</i>	Common Water Hore	0.25	235000	1.35
<i>Mimulus ringens</i>	Monkey Flower	1.00	28350	6.91
<i>Oligoneuron rigidum</i>	Rattleside Goldenrod	0.50	94500	1.08
<i>Pentstemon sedifolius</i>	Ditch Stenonop	0.50	30603	0.41
<i>Polygonum spp</i>	Pinkweed (Various M)	4.00	4063	0.37
<i>Rudbeckia subtomentosa</i>	Sweet Black-Eyed St	1.00	4000	1.06
<i>Rudbeckia tobiola</i>	Brown-Eyed Susan	1.50	33900	1.14
<i>Sagittaria latifolia</i>	Common Arrowhead	1.00	56700	1.30
<i>Senna hebecarpa</i>	Wild Senna	1.00	1400	0.63
<i>Syrnoidium novae-angliae</i>	New England Aster	1.50	76000	2.62
<i>Thalictrum dasycarpum</i>	Purple Meadow Rue	2.00	13500	0.62
<b>Total</b>		<b>28.00</b>		<b>30.78</b>

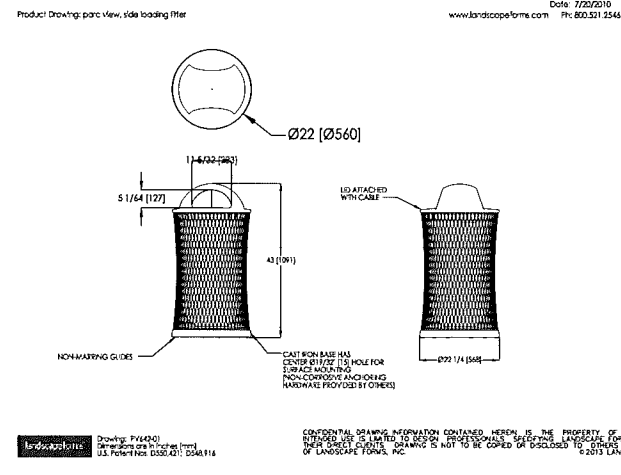
Mix Statistics				
Name Component	PLS lbs./Acre	PLS Seeds/Acre	PLS Seeds/Sq Ft	% of Native Mix
Forbs	1.76	1,340,687	33.81	31.74%
Grasses	2.31	2,883,281	66.19	68.25%
<b>Total Native</b>	<b>4.07</b>	<b>4,223,968</b>	<b>100.00</b>	<b>100.00%</b>
Cover	28.75	4,343,503	159.72	
<b>Totals</b>	<b>32.81</b>	<b>8,567,471</b>	<b>159.72</b>	

3 STORMWATER-SEED-MIX

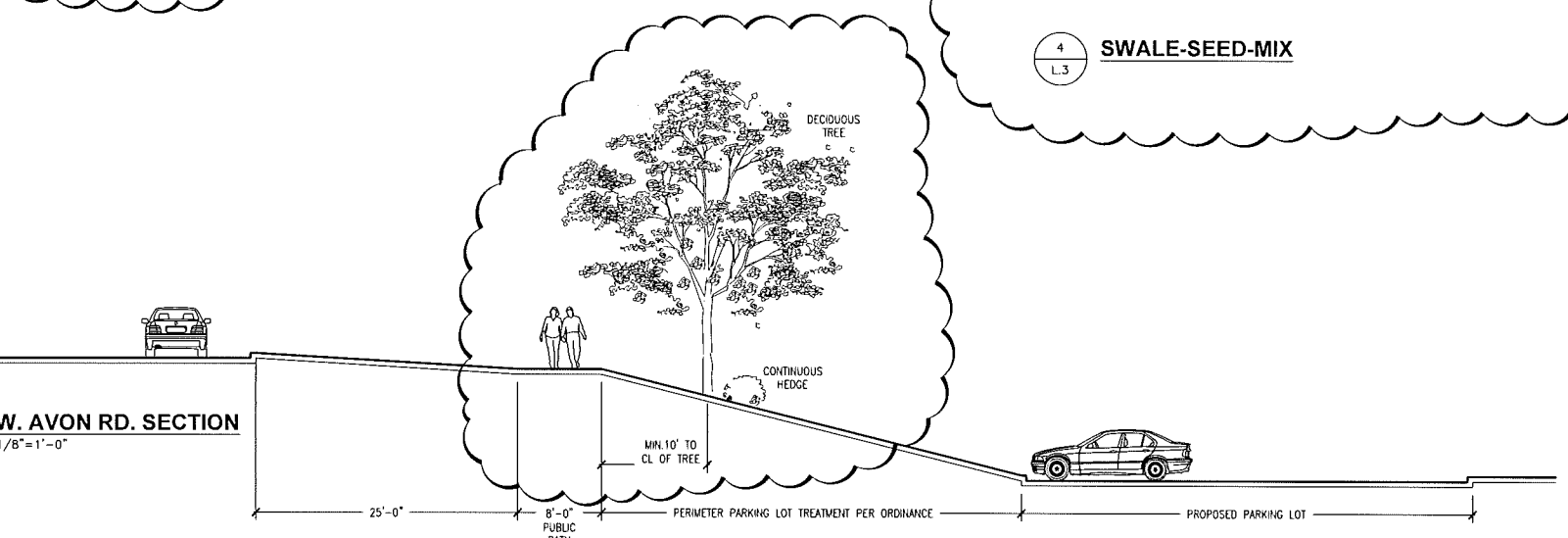
Botanical Name	Common Name	PLS Quinces/Acre	Seeds/Oz	Seeds/SQ FT
<b>Swale Seed Mix</b>				
<b>Permanent Grasses/Sedges:</b>				
<i>Andropogon gerardi</i>	Big Bluestem	4.00	8188	0.75
<i>Carex comosa</i>	Bristly Sedge	2.50	41183	2.36
<i>Carex cristata</i>	Crested Owl Sedge	2.00	59000	2.71
<i>Carex lasida</i>	Belted Sedge	0.60	13300	0.60
<i>Carex spp</i>	Plains Sedge Mx	8.00	33422	6.14
<i>Carex vulpinoidea</i>	Brown Fox Sedge	4.00	125000	11.43
<i>Elymus virginicus</i>	Virginia Wild Rye	8.00	4375	0.60
<i>Scleria arifolia</i>	Fowl Mama Grass	1.00	12100	2.69
<i>Panicum virgatum</i>	Switch Grass	2.00	28356	1.30
<i>Scirpus atrovirens</i>	Dark Green Rush	2.00	187500	8.61
<i>Scirpus cyperinus</i>	Wood Grass	1.00	552500	12.91
<i>Spartina pectinata</i>	Plains Cord Grass	3.00	15750	1.08
<b>Total</b>		<b>40.00</b>		<b>51.71</b>
<b>Temporary Cover:</b>				
<i>Avena sativa</i>	Common oat	360.00	8125	67.15
<i>Lolium multiflorum</i>	Annual Rye	100.00	14158	32.57
<b>Total</b>		<b>460.00</b>		<b>99.72</b>
<b>Forbs:</b>				
<i>Alisma spp</i>	Water Plantain (various Mx)	1.00	70175	1.61
<i>Asclepias incarnata</i>	Swamp Milkweed	2.00	4540	0.21
<i>Carex triflorus</i>	Tall Carex	1.00	11500	0.26
<i>Elymus maculatum</i>	Spotted Joe Pye Weed	0.25	78125	0.42
<i>Impatiens</i>	Blue Flag	4.00	1400	0.13
<i>Lobelia spicata</i>	Marsh Bluewing Star	1.00	15000	0.28
<i>Lobelia cardinalis</i>	Cardinal Flower	0.25	43700	2.51
<i>Lobelia spicata</i>	Great Blue Lobelia	0.50	53000	5.97
<i>Lysichiton americanus</i>	Common Water Horehound	0.25	23500	1.35
<i>Pycnanthemum virginicum</i>	Common Mountain Mint	0.50	33250	3.00
<i>Rudbeckia hirta</i>	Brown Eyed Susan	0.50	33600	0.38
<i>Sagittaria latifolia</i>	Common Arrowhead	0.25	56700	0.35
<i>Senna hebecarpa</i>	Wild Senna	1.00	1400	0.63
<i>Subularia foetida</i>	Plains Dock	1.00	1100	0.93
<i>Syrnoidium novae-angliae</i>	New England Aster	1.00	76000	1.74
<i>Verbena hastata</i>	Blue Vervain	1.50	12100	1.33
<i>Zizia aurea</i>	Golden Alexander	0.75	12000	0.21
<b>Total</b>		<b>16.78</b>		<b>23.37</b>

Mix Statistics				
Name Component	PLS lbs./Acre	PLS Seeds/Acre	PLS Seeds/Sq Ft	% of Native Mix
Forbs	1.61	1,016,188	23.37	31.13%
Grasses	2.10	2,222,548	51.71	68.87%
<b>Total Native</b>	<b>3.71</b>	<b>3,238,736</b>	<b>75.08</b>	<b>100.00%</b>
Cover	26.75	4,343,503	159.72	
<b>Totals</b>	<b>30.46</b>	<b>7,582,239</b>	<b>174.81</b>	

4 SWALE-SEED-MIX

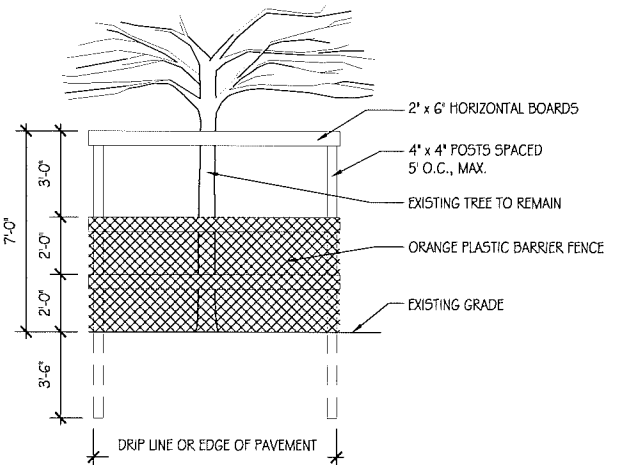


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2 W. AVON RD. SECTION  
 1/8"=1'-0"

- TREE PROTECTION NOTES:**
- EITHER PLASTIC OR WOOD ORANGE SHAW FENCING SHALL BE INSTALLED AT OR BEYOND THE DRIP LINE UNLESS MORE SUBSTANTIAL FENCING IS REQUIRED.
  - STAKES SHALL BE METAL 1" POLES SPACED NO FURTHER APART THAN 5' ON CENTER.
  - FENCING SHALL NOT BE INSTALLED CLOSER THAN DRIP LINE OF THOSE TREES TO BE SAVED. SPECIAL CIRCUMSTANCES SHALL BE REVIEWED BY THE CITY.
  - FENCING SHALL BE ERECTED PRIOR TO CONSTRUCTION. THE CITY SHALL BE NOTIFIED ONCE THE FENCING IS INSTALLED AND READY FOR INSPECTION.
  - UNDER NO CIRCUMSTANCES SHALL THE PROTECTIVE FENCING TO REMOVED WITHOUT PROPER APPROVAL FROM THE CITY.
  - NO PERSON SHALL CONDUCT ANY ACTIVITY WITHIN THE AREAS PROPOSED TO REMAIN. THIS SHALL INCLUDE BUT NOT BE LIMITED TO:
    - NO SOLVENTS OR CHEMICALS WITHIN THE PROTECTED AREAS.
    - NO BUILDING MATERIALS OR CONSTRUCTION EQUIPMENT WITHIN THE PROTECTED AREAS.
    - NO GRADE CHANGES, INCLUDING FILL, WITHIN THE PROTECTED AREAS.
    - NO REMOVAL OF VEGETATION FROM THE GROUND WITHOUT PERMISSION FROM THE REVIEWING AUTHORITY.
  - ANY REQUIRED SWALE NEEDS TO BE DIRECTED AROUND THE PROTECTED AREAS. IN INSTANCES WHERE SWALES ARE APPROVED THROUGH A PROTECTED AREA, THE SWALES NEED TO BE HAND-DUG. MACHINERY OF ANY KIND IS PROHIBITED.

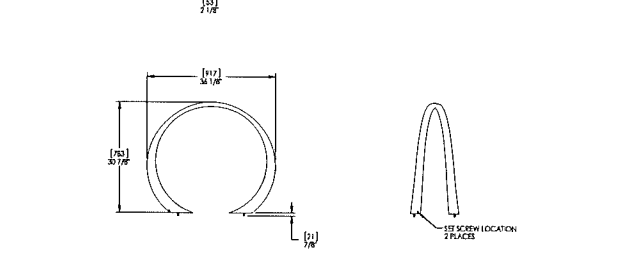


NOTE:  
 ALL TREE PROTECTION SHALL BE INSTALLED BY CONTRACTOR AND APPROVED BY CITY'S LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF DEMOLITION.

1 TREE PROTECTION FENCING  
 1/4"=1'-0"

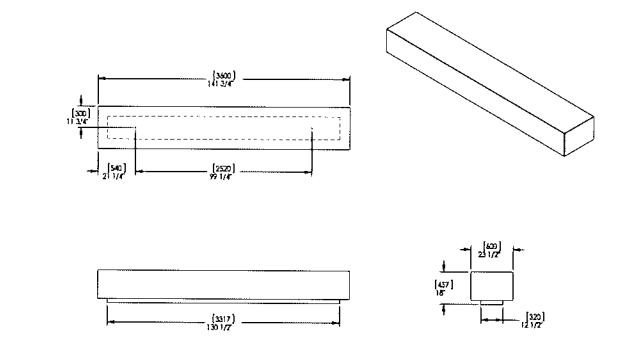
Loop Bike Rack, Surface Mount  
 Layout Drawing  
 Date: 12/3/2014  
 www.landscapeforms.com  
 Ph: 800.521.2546

- APPROVED
- REVISE AND RESUBMIT
- SELECTED
- CONSTRUCTION USE ONLY THESE DIMENSIONS ARE FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DIMENSIONS AND INSTALLATION REQUIREMENTS.
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_



Loop Bike Rack, Surface Mount  
 Drawing AE100-02  
 Dimensions are in inches (mm)  
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Escofet, Socrate Bench, 142" length, Freestanding / Embedded  
 Product Drawing  
 Date: 8/29/2012  
 www.landscapeforms.com  
 Ph: 800.521.2546



Escofet, Socrate Bench, 142" length, Freestanding / Embedded  
 Drawing EB803-02  
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