



City of Hudson Ohio
Department of Community Development
115 Executive Parkway, Suite 400, Hudson, OH 44236
Phone: (330) 342-1790 www.hudson.oh.us

Zoning Certificate

PROJECT ADDRESS: 1940 GEORGETOWN RD

Parcel Number: 3009980

Zoning District: 8

Subdivision: n/a

Lot #: n/a

Applicant: Highfields

Owner: KGK PROPERTIES LLC

1936 Georgetown Road

1975 E NORTON RD

Hudson, OH 44236

HUDSON, OH 44236

Permit Number: 2017-004

Issue Date: 1/5/17

Project: New Principal non-residential structure

Picked up Date:

Permit Description: Event center

1-6-2017

Square footage: 5070

FEMA Floodplain: N

CONDITIONS

- PC approval on June 8, 2015 per case 2015-14

Building Permit must be obtained from the Summit County Department of Building Standards prior to commencing work.
Certificate shall expire unless construction is commenced within six months and completed within two years of the date of issuance.
Not valid without Staff signature.

A handwritten signature in black ink, appearing to read "Mark Richardson".

Authorized City Staff

1/5/17

Date

OHIO
HUDSON

COMMUNITY DEVELOPMENT • 115 Executive Parkway, Suite 400 • Hudson, Ohio 44236 • (330) 342-1790

APPLICATION FOR ZONING CERTIFICATE

Project Address: 1940 GEORGETOWN RD, HUDSON OH 44236

Project Description: [check all that apply and describe below]

☐ New Construction[residential] ☐ Fence ☐ Accessory Structure ☐ Alteration ☐ Demolition ☐ Sign

☒ New Construction[other] ☐ Addition ☐ Use (Change of) ☐ Re-inspection Other _____

Detailed Explanation: EVENT CENTER

Project Area (sf): 5070 Subdivision: _____ Sublot: 7 Zoning Dist: 30

Project Cost: 1.2 MILLION Commence M&Y: MARCH 2017 Complete M&Y: MARCH 2018

Please note: Applications will not be accepted as complete by the City of Hudson until the applicant and property owner fulfill all requirements listed within the AHBR submittal packet. All application fees are accepted in cash or by check payable to the "City of Hudson".

Affidavit of Applicant and Property Owner

The undersigned do hereby certify that the information to the City of Hudson in and with this application is true and accurate and consents to employees and/or agents of the City of Hudson entering upon the premises of this application for purposes of inspection and verification of information pertaining to the application, and if this application is approved, to verify conformance to requirements and conditions of such approval. I acknowledge that City reviews or approvals do not absolve the subject property from deed restrictions, easements, or homeowner association covenants, restrictions, or regulations regarding structures and uses on the property.

Applicant: HIGHFIELDS

Address: 1936 GEORGETOWN RD
HUDSON, OH 44236

Telephone: 330-650-4337 Fax: 330-650-4330

Email: JOYCE.KURYLA@GMAIL.COM

Applicant relationship to Owner: ☐ Agent ☐ Attorney ☒ Contractor ☐ Architect ☐ Other _____

[Signature] Date: 12/29/16
Applicant Signature

Property Owner: HIGHFIELDS

Address: 1936 GEORGETOWN RD
HUDSON, OH 44236

Telephone: 330-650-4337 Fax: 330-650-4337

Email: JOYCE.KURYLA@GMAIL.COM

Applicant relationship to Owner: ☐ Agent ☐ Attorney ☒ Contractor ☐ Architect ☐ Other _____

[Signature] Date: 12/29/16
Property Owner Signature

Staff Use Only					
Application No.	<u>2017-004</u>	Landscape Req.	Y	N	GMA# <u>1</u>
Date Received	<u>12/29/16</u>	GMA Letter	Y	N	Tree Plan App. Y N
Fee Paid	_____	ROW Form	Y	N	Site Plan App. Y N
Receipt No.	_____	RITA Form	Y	N	Staked/Pinned Y N
		FEMA Floodplain	Y	N	Initials _____

KGK – Highfields Event Center

PC approval (Conditional Use and Site Plan) – 2015-14 – approved June 8, 2015

Zoning certificate 2017-004 – issued January 5, 2017

1203.05 – Conditional Use

(c)Lapse.

(1) Failure of an applicant to commence substantial construction or action with regard to the conditional use approval within one (1) year of receiving approval of the conditional use and to complete such construction or action within two (2) years of receiving approval of the conditional use shall automatically render the decision of the PC, or the BZBA on appeal, null and void.

1203.02

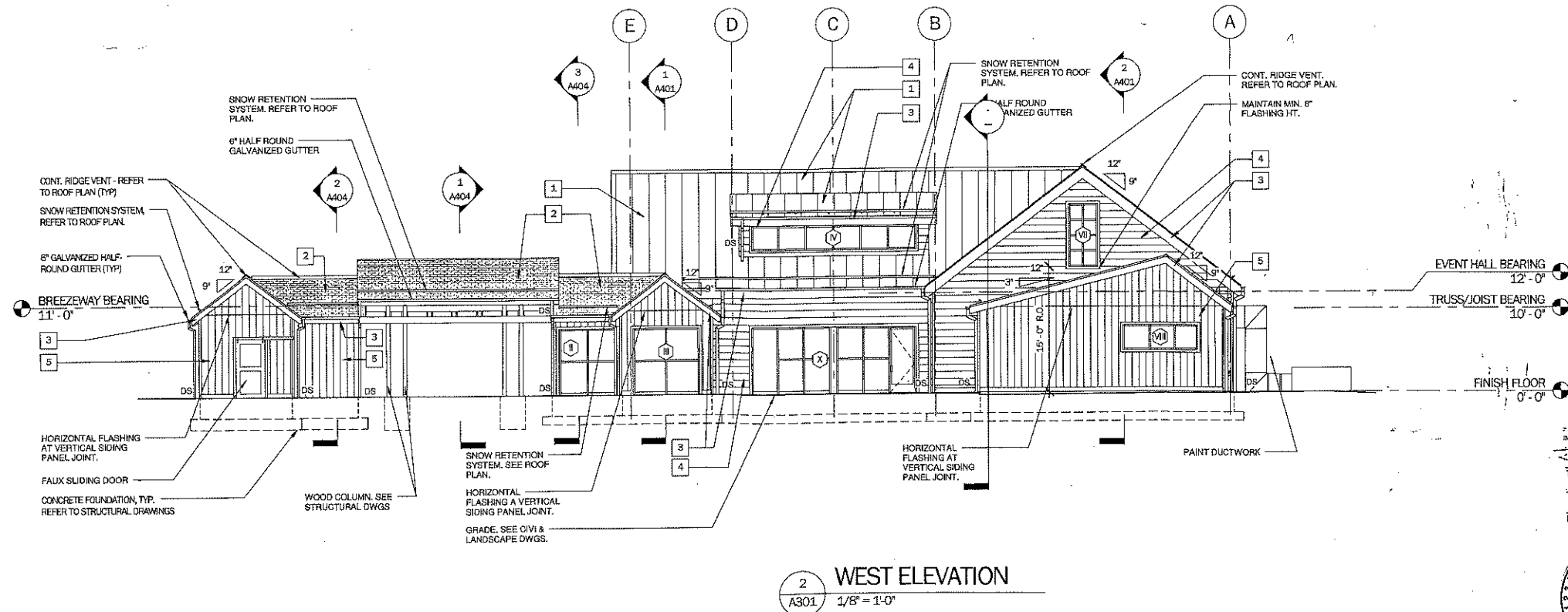
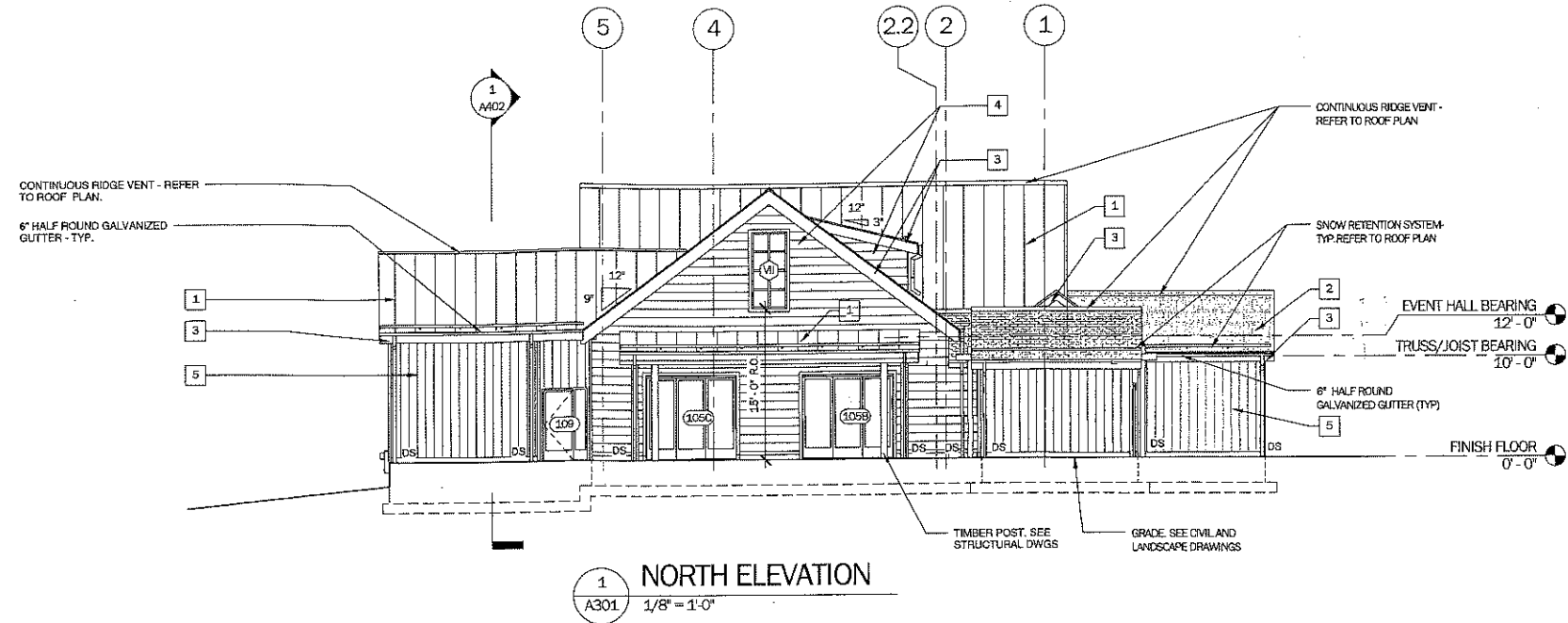
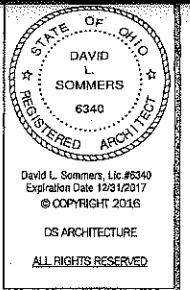
(4) Time Limit on Zoning Certificates. Unless construction is commenced within six (6) months of the date of issuance of a zoning certificate and completed within twenty four (24) months of the date of issuance, such certificate shall then automatically lapse and be null and void. These time limits may be extended by the City upon a showing that there has been continuing construction activity on the site during the twenty four (24) months of the date of issuance. Construction or improvement of a new or existing structure shall be deemed to have commenced upon completion of the in-ground permanent foundation, or if constructed utilizing slabs, piers, pilings, or pole construction, completion of the structural framework of the building constituting the authorized work under the permit.

GENERAL NOTES

1. ALL EAVES SHALL RECEIVE 6" GALVANIZED HALF ROUND GUTTER COVER/ 1x HARDIE FASCIA BOARD AND COLORGRAD SNOW RETENTION SYSTEM.
2. ALL RAKE EDGES SHALL RECEIVE 1x HARDIE FASCIA BOARD.
3. ALL OUTSIDE AND INSIDE CORNER TO RECEIVE HARDIE TRIM BOARD.

EXTERIOR FINISH SCHEDULE

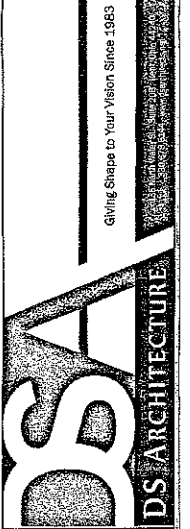
SYMBOL	MATERIAL	MANUFACTURER	COLOR
1	STANDING SEAM METAL ROOF	TO BE SELECTED BY OWNER	*CLAY - VERIFY WITH OWNER
2	ASPHALT SHINGLE ROOF	TO BE SELECTED BY OWNER	TO BE SELECTED BY OWNER
3	PREFINISHED EXTERIOR FASCIA BOARD	JAMES HARDIE	TO BE SELECTED BY OWNER
4	PREFINISHED HORIZONTAL LAP SIDING	JAMES HARDIE	TO BE SELECTED BY OWNER
5	PREFINISHED VERTICAL SIDING w/ PREFINISHED BATTEN BOARDS @ 2'-0" O.C.	JAMES HARDIE	TO BE SELECTED BY OWNER



CITY OF HUDSON, OHIO
Thomas V. Sheldon, PE/PS, City Engineer
Date 1/4/17



ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURLYA
1940 GEORGETOWN ROAD
HUDSON, OH 44236



NO.	REVISIONS
1	ISSUED FOR BIDDING

PROJECT: 16070
DATE: 11/14/2016
DRAWN: JV
CHECKED: LK

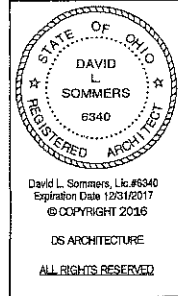
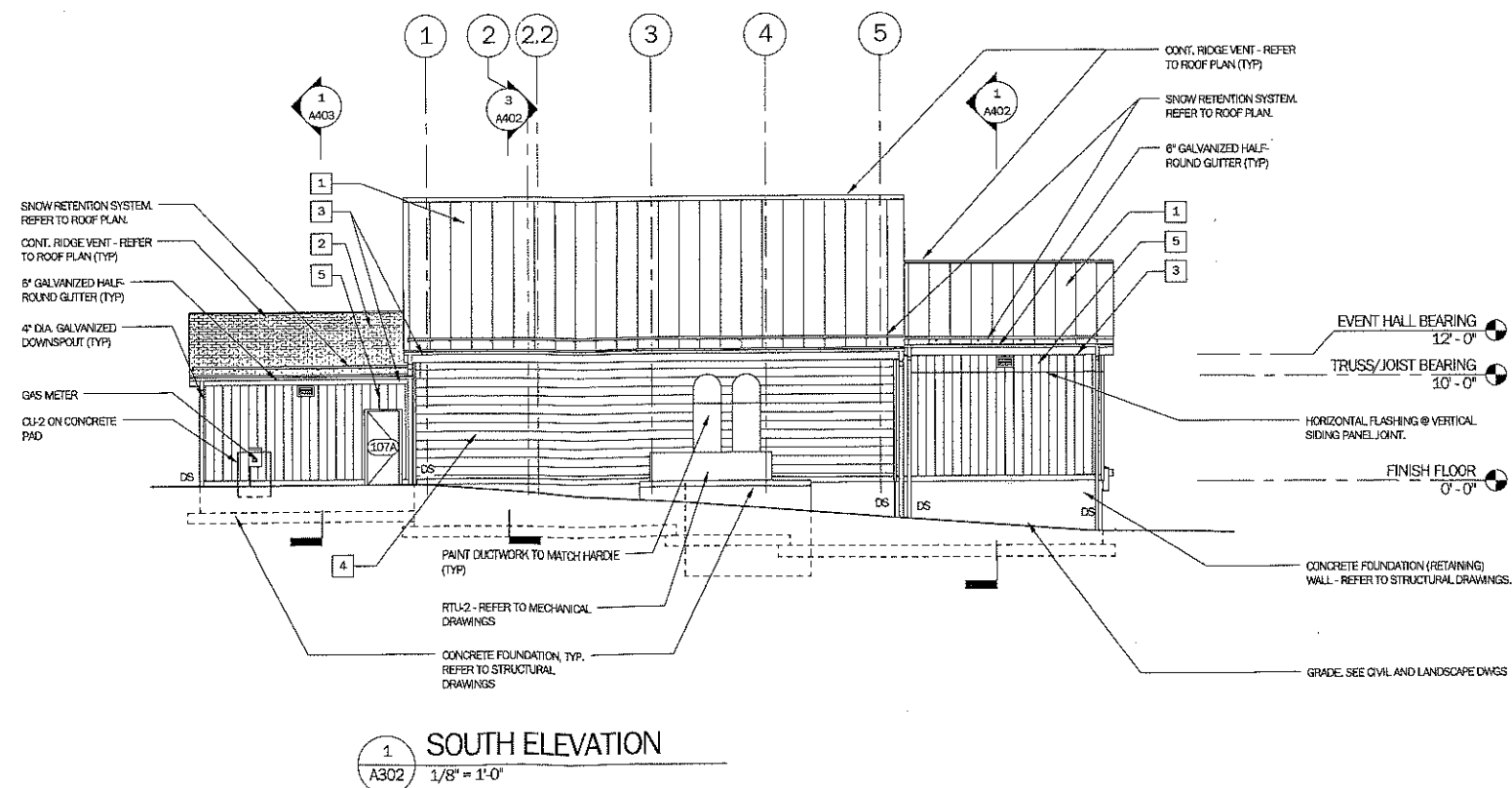
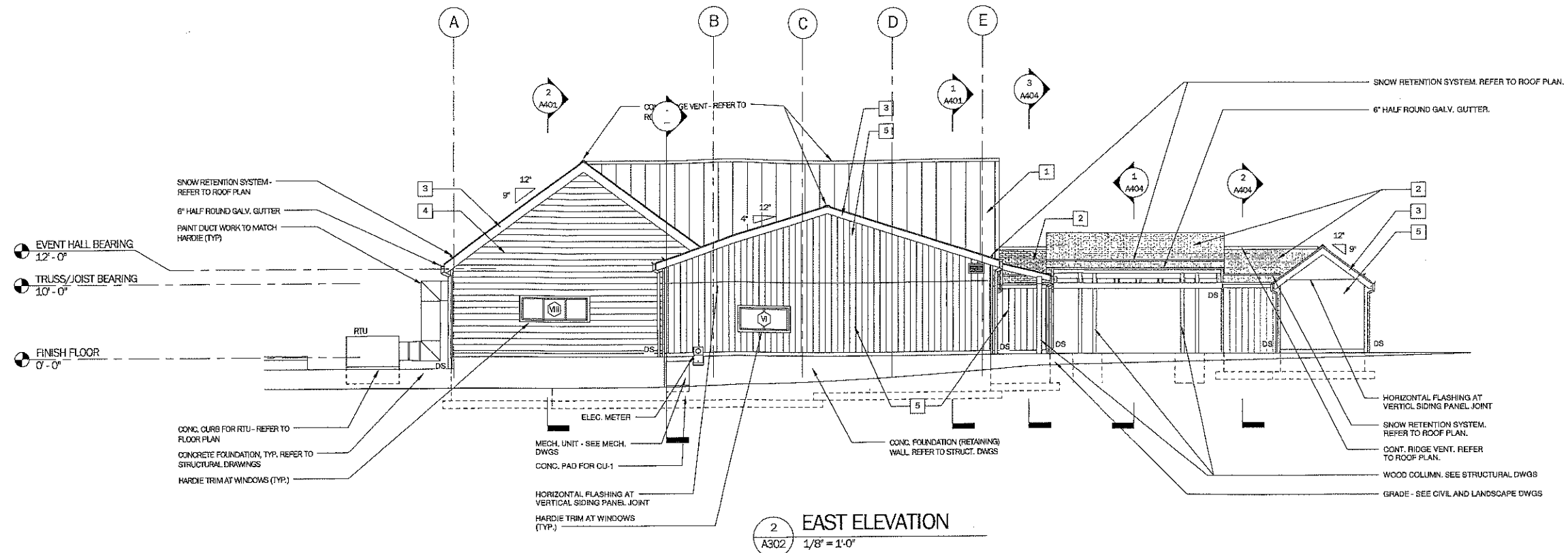
A301

EXTERIOR ELEVATIONS

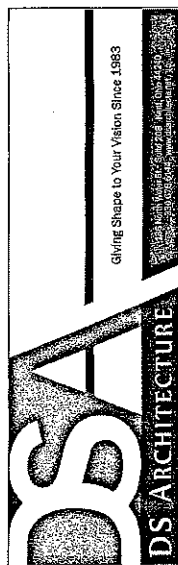
1940 Georgetown 2017-004 1.5.17

C:\Users\jason\Documents\16070 - HIGHFIELDS REVISED - CENTRAL - 11.dwg

EXTERIOR FINISH SCHEDULE			
SYMBOL	MATERIAL	MANUFACTURER	COLOR
1	STANDING SEAM METAL ROOF	TO BE SELECTED BY OWNER	"CLAY" - VERIFY WITH OWNER
2	ASPHALT SHINGLE ROOF	TO BE SELECTED BY OWNER	TO BE SELECTED BY OWNER
3	PREFINISHED EXTERIOR FASCIA BOARD	JAMES HARDIE	TO BE SELECTED BY OWNER
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5	PREFINISHED VERTICAL SIDING w/ PREFINISHED BATTEN BOARDS @ 2'-0" O.C.	JAMES HARDIE	TO BE SELECTED BY OWNER



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1940 GEORGETOWN ROAD
HUDSON, OH 44236



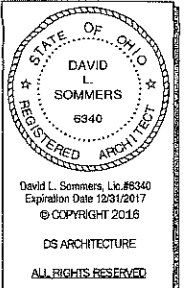
NO.	REVISIONS
1	ISSUED FOR PERMITS

PROJECT: 16070
DATE: 11/14/2016
DRAWN: JV
CHECKED: LX

CITY OF HUDSON
ZC# 17-034 APPROVED JAN-5-17
Mark P. [Signature]
ASSOCIATE PLANNER

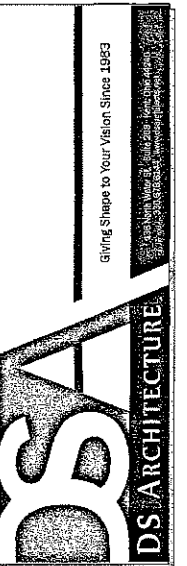
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EXTERIOR ELEVATIONS

EXTERIOR FINISH SCHEDULE			
SYMBOL	MATERIAL	MANUFACTURER	COLOR
1	STANDING SEAM METAL ROOF	TO BE SELECTED BY OWNER	"OLAY" - VERIFY WITH OWNER
2	ASPHALT SHINGLE ROOF	TO BE SELECTED BY OWNER	TO BE SELECTED BY OWNER
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5	PREFINISHED VERTICAL SIDING w/ PREFINISHED BATTEN BOARDS @ 2'-0" O.C.	JAMES HARDIE	TO BE SELECTED BY OWNER



David L. Sommers, Lic. #6340
Expiration Date 12/31/2017
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DS ARCHITECTURE
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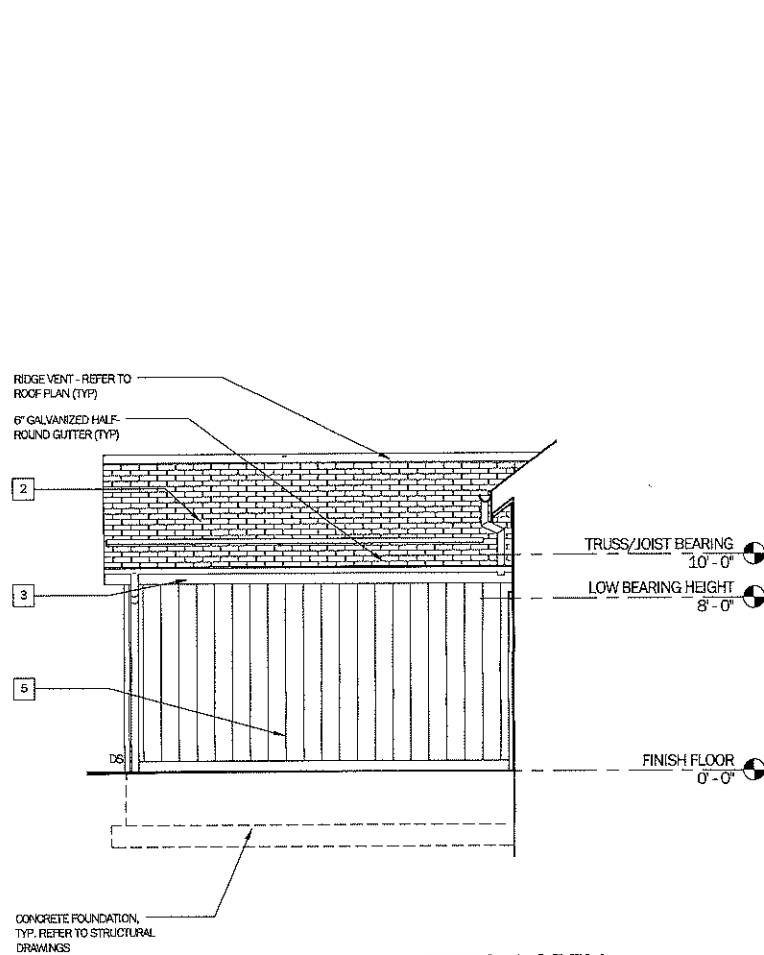
ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURYLA
1940 GEORGETOWN ROAD
HUDSON, OH 44236



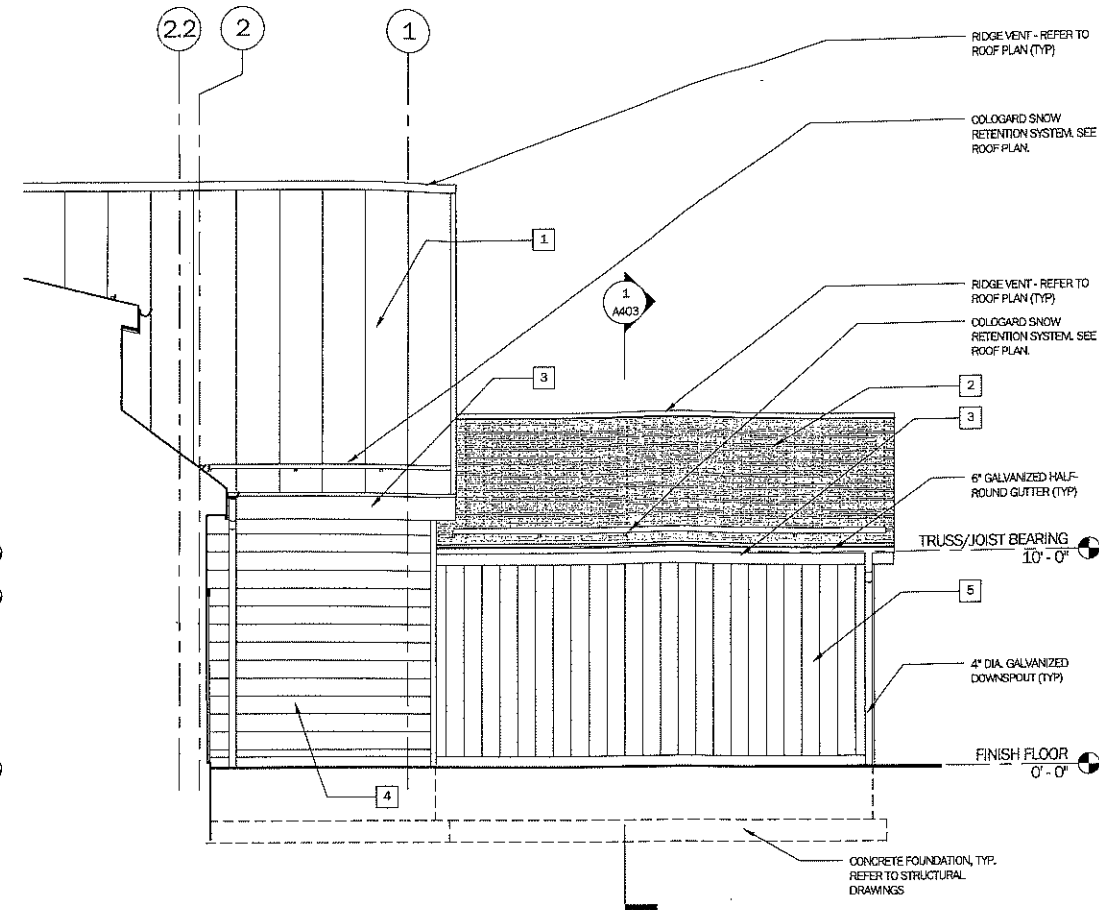
REVISIONS	
NO.	1
ISSUED FOR RECORD	

PROJECT: 16070
DATE: 11/14/2016
DRAWN: JV
CHECKED: LK

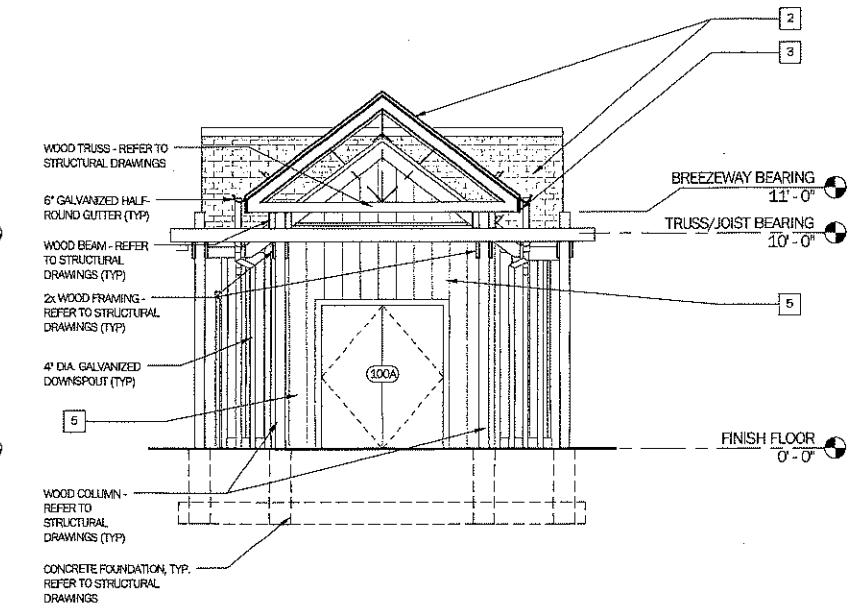
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EXTERIOR ELEVATIONS



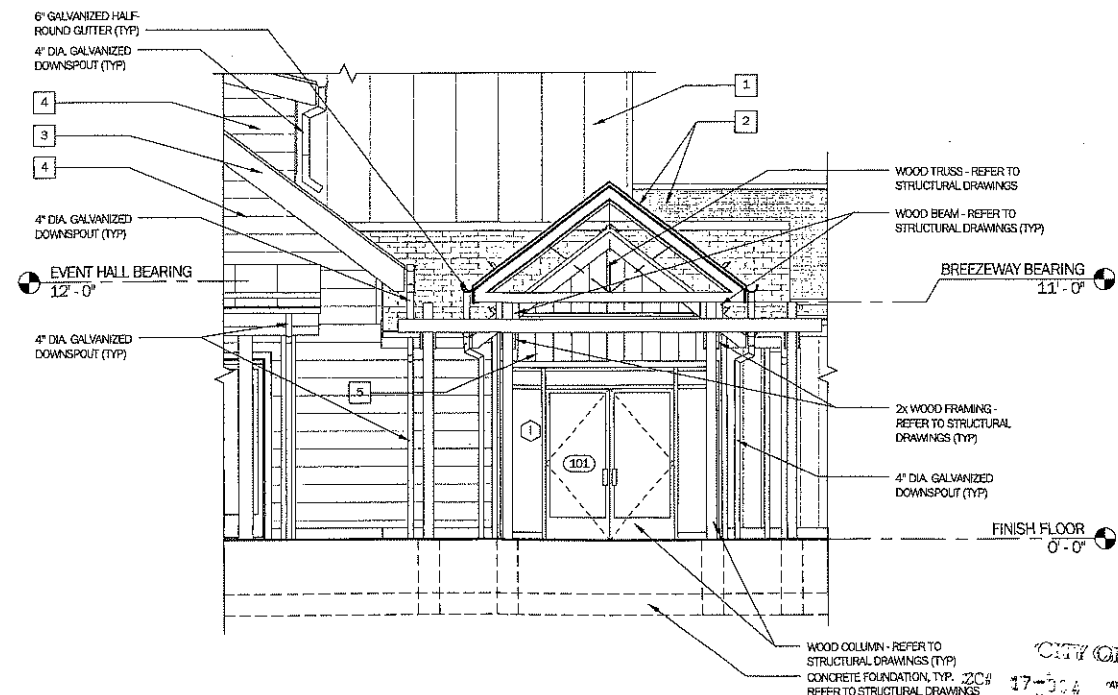
3
A303
HIDDEN ELEVATION - LOBBY
1/4" = 1'-0"



2
A303
HIDDEN ELEVATION- STORAGE/ MECHANICAL
1/4" = 1'-0"



1
A303
HIDDEN ELEVATION - STORAGE SHED
1/4" = 1'-0"



4
A303
ENTRY PORTICO ELEVATION
1/4" = 1'-0"

CITY OF HUDSON
APPROVED
JAN 11-2017
Mark D. ...
ASSOCIATE PLANNER



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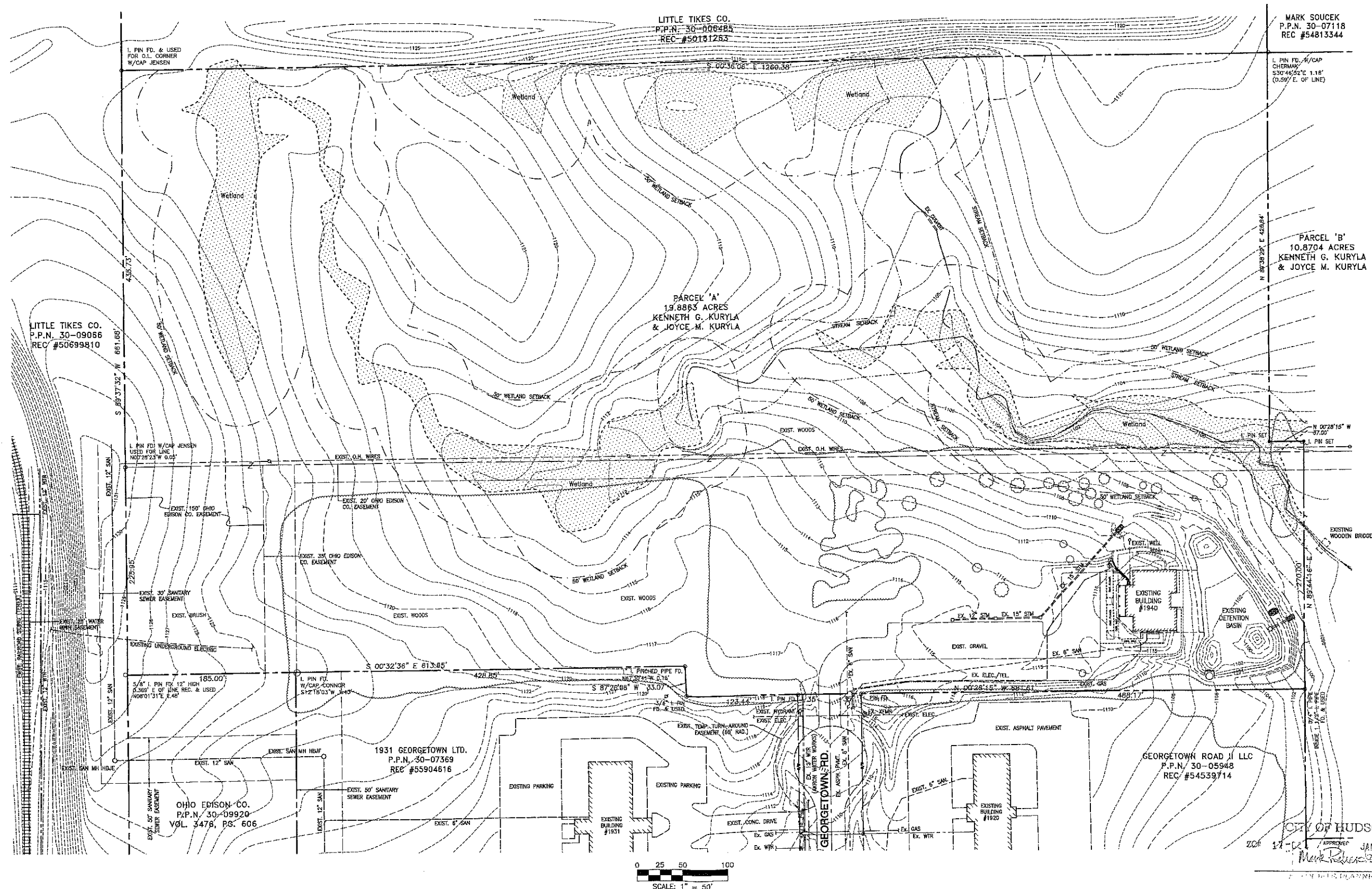
ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURLA
1940 GEORGETOWN ROAD
HUDSON, OH 44236

HEJDUK-COX AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
32145 Old South Main Road
Solon, Ohio 44139
440-248-1330; Fax 440-248-5418

REVISIONS	
No.	DESCRIPTION
1	ISSUED FOR BIDDING

PROJECT: 12283
DATE: 11/14/2016
DRAWN: JLK
CHECKED: JLK

C100
BOUNDARY SURVEY &
EXISTING CONDITIONS





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ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURYLA
1940 GEORGETOWN ROAD
HUDSON, OH 44236

HEJDUK-COX AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
22115 Old South Lane Road
Sharon, Ohio 44139
440-346-1330, Fax 248-9419

NO.	REVISIONS
1	07/22/16 PER CITY ENGINEER
2	11/24/16 PER OWNER
3	ISSUED FOR BIDDING

PROJECT: 12283
DATE: 11/14/2016
DRAWN: JLK
CHECKED: JLK

C101
UTILITY PLAN

CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING
CA GR	Gray's Sedge	<i>Carex grayi</i>	12" HT.	NO. 1 CONT.	12" O.C.
CA LU	Shallow Sedge	<i>Carex lurida</i>	12" HT.	NO. 1 CONT.	12" O.C.
IR PS	Yellow Flag	<i>Iris pseudacorus</i>	12" HT.	NO. 2 CONT.	12" O.C.
IR VI	American Blue Flag	<i>Iris versicolor</i>	12" HT.	NO. 2 CONT.	12" O.C.
LO CA	Red Cardinal Flower	<i>Lobelia cardinalis</i>	—	NO. 2 CONT.	12" O.C.
LO SP	Great Blue Lobelia	<i>Lobelia siphilitica</i>	—	NO. 2 CONT.	12" O.C.

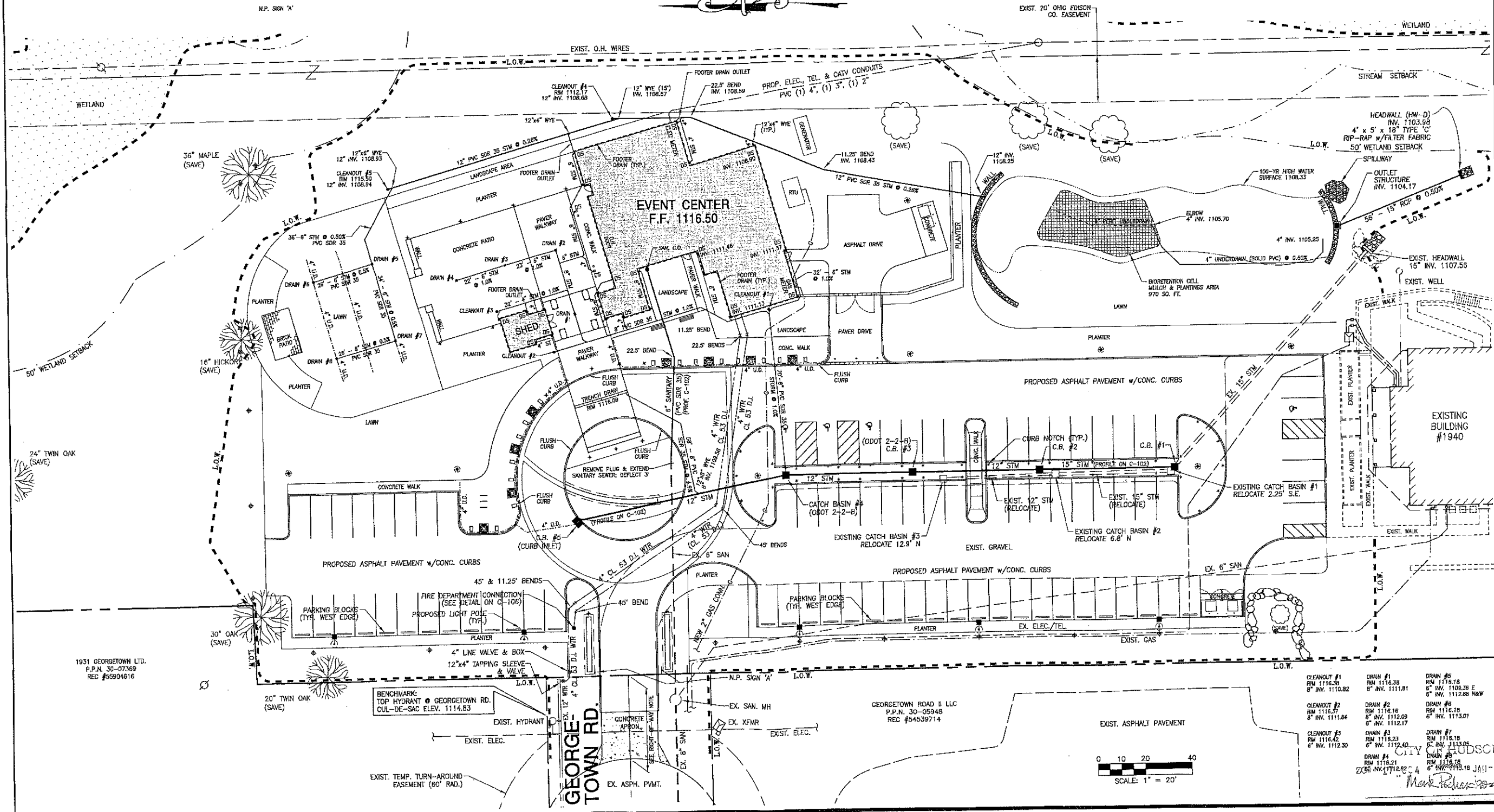
#	#
CA GR	CALLI
#	#
IR PS	IRVE
#	#
LO CA	LOSI

BIOPANT MIA:
ENTIRE BIOCELL INCLUDED IN QUANTITIES
(SEE LANDSCAPE PLANS)

BIORETENTION CELL PLANTINGS

(SAVE) = EXISTING TREE TO BE PRESERVED

- RIGHT OF WAY NOTES:**
- THE CONCRETE DRIVE APRON WITHIN GEORGETOWN ROAD RIGHT OF WAY MUST BE INSPECTED BY THE CITY OF HUDSON, INCLUDING ITS GRADING, SUBGRADE COMPACTION AND SEEDING OF DISTURBED LANDSCAPE AREAS.
 - CONCRETE DRIVE APRON BUILDUP:
a. ODOT ITEM 203 - SUBGRADE COMPACTION
b. 4" ODOT ITEM 304 - AGGREGATE BASE
c. 6" ODOT ITEM 451 - CONCRETE CLASS 'C' WITH WELDED WIRE MESH (6" x 6" 4 / 4)
 - ALL AREAS DISTURBED WITHIN THE RIGHT-OF-WAY (WHETHER PAVEMENT OR LANDSCAPING) SHALL BE REPLACED TO CITY OF HUDSON ENGINEERING STANDARDS WITHIN 14 DAYS OF NOTICE.
- FIRE PROTECTION NOTES:**
- WATER TAPS, VALVES AND PIPE MATERIALS SHALL CONFORM TO ANKON WATER DEPARTMENT REQUIREMENTS.
 - THE RISER AT THE END OF THE FIRE DEPARTMENT CONNECTION MUST BE 40 FEET OR LESS FROM THE EXISTING HYDRANT AT THE END OF GEORGETOWN ROAD.
 - BACKFLOW DEVICES AND WATER METER ARE PROPOSED TO BE INSIDE THE BUILDING. SEE PLUMBING PLAN FOR ADDITIONAL INFORMATION.
 - "NO PARKING FIRE LANE" SIGNS SHALL BE ERRECTED AT THE TWO LOCATIONS SHOWN. CUSTOM COLORS AND SIGN MATERIALS TO MATCH STRUCTURES ARE ACCEPTABLE.



1931 GEORGETOWN LTD.
P.P.N. 30-07369
REC #55904616

GEORGETOWN ROAD II LLC
P.P.N. 30-05948
REC #54539714

BENCHMARK:
TOP HYDRANT @ GEORGETOWN RD.
CUL-DE-SAC ELEV. 1114.83

EXIST. HYDRANT

EXIST. ELEC.

EXIST. ASPH. PVMT.

EXIST. TEMP. TURN-AROUND EASEMENT (60' RAD.)

EXIST. ASPH. PVMT.



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ADDITIONS AND ALTERATIONS TO:
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KEN AND JOYCE KURLA
1940 GEORGETOWN ROAD
HUDSON, OH 44236

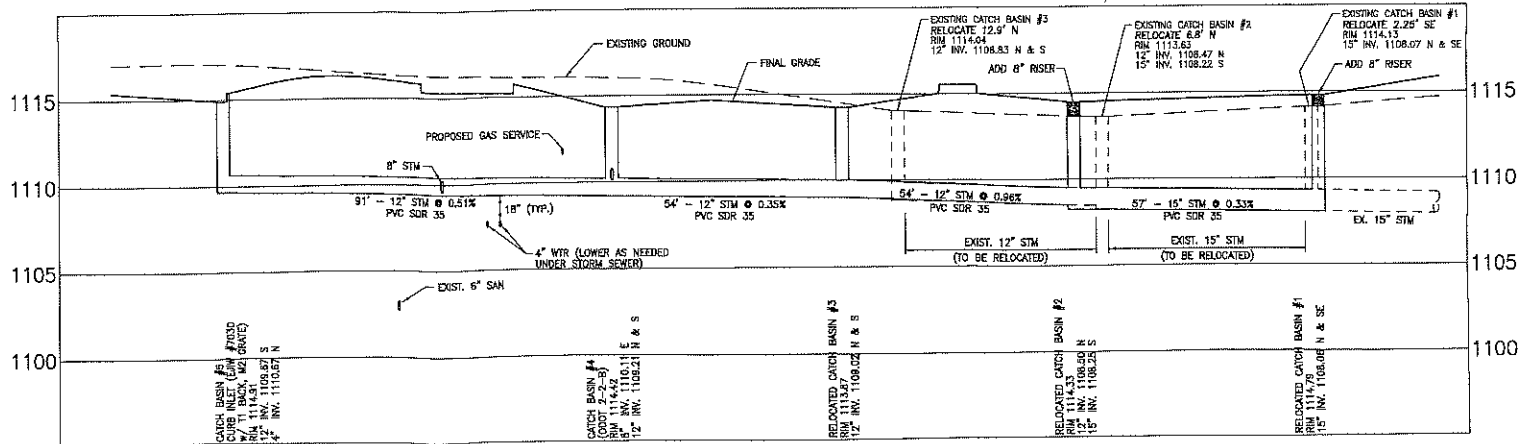
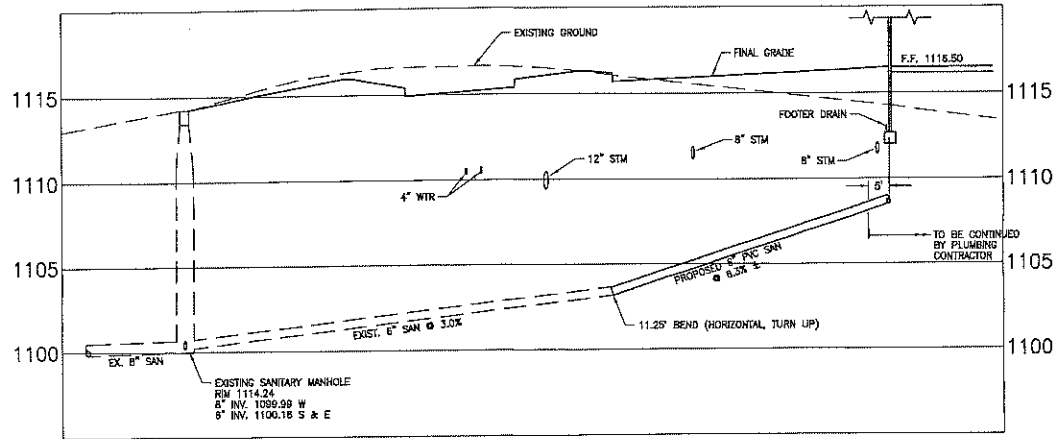
HEJDUK-COX AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
23115 Old South Main Road
Joliet, Ohio 44130
440-246-1333 Fax 440-246-4110

REVISIONS	
No.	DESCRIPTION
1	07/22/16 PER CITY ENGINEER
2	ISSUED FOR BIDDING

PROJECT: 12283
DATE: 11/14/2016
DRAWN: JLK
CHECKED: JLK

CITY OF HUDSON
ZC# 17-2014
APPROVED: *Mark R. Blumberg*
ASSOCIATE PLANNER

C102
UTILITY PROFILES



0 10 20 40
SCALE: 1" = 20'



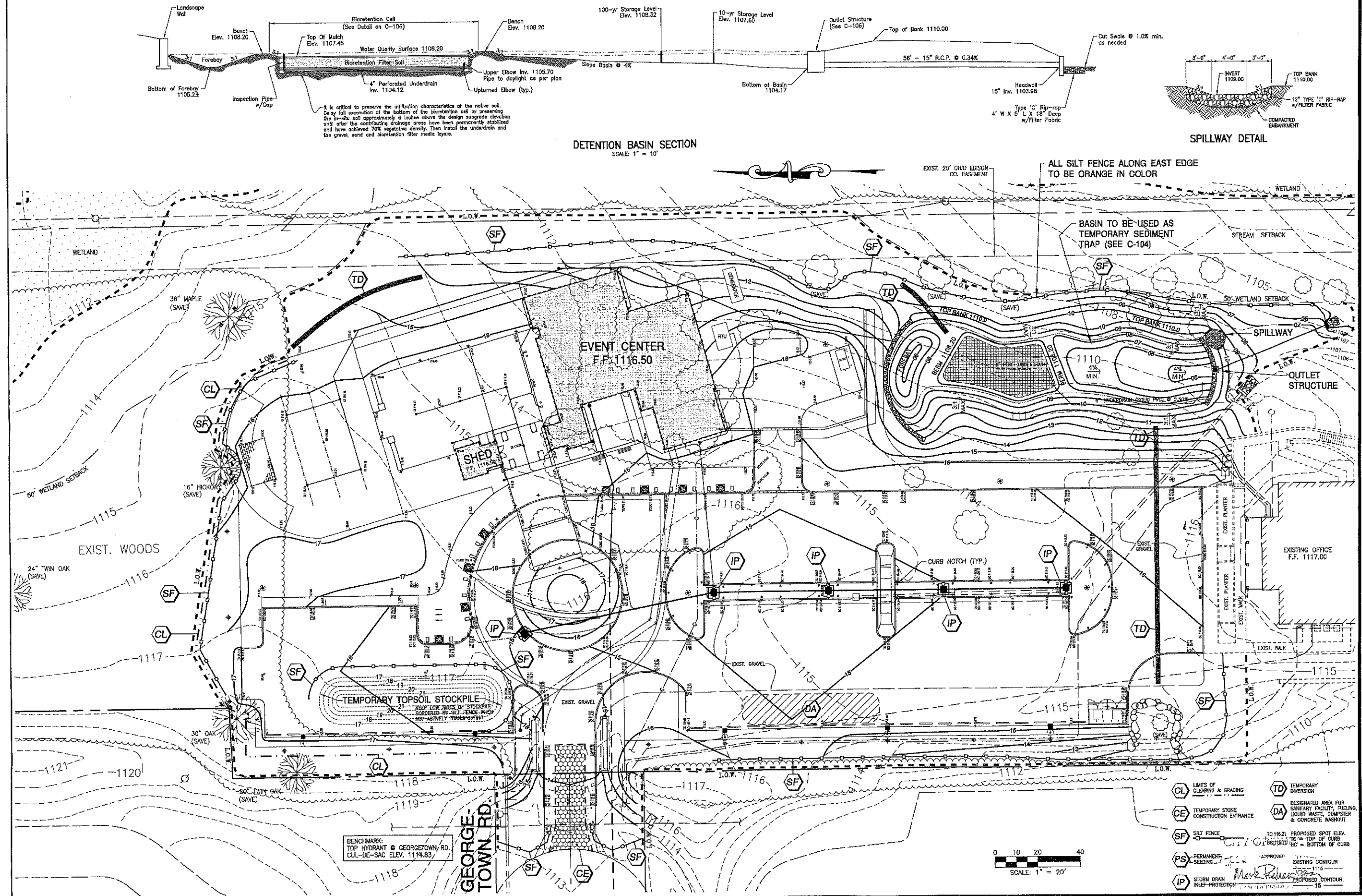
ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURLA
1940 GEORGETOWN ROAD
HUDSON, OH 44236

AICA HEJDUK-COX AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
32115 Old South Main Road
Smyrna, Ohio 44093
(216) 462-1330, Ext. 248-2419

[illegible]

PROJECT: 12203
DATE: 11/14/2018
DRAWN: JLK
CHECKED: JLK

C103
SITE GRADING &
STORM WATER POLLUTION
PREVENTION PLAN



OWNER:
K&K PROPERTIES, LLC
1940 GEORGETOWN ROAD
HUDSON, OHIO 44236
CONTACT: KEN & JOYCE KURLA
330-650-4337

ESTIMATED CONSTRUCTION PERIOD:
DECEMBER 6, 2016 THRU OCTOBER 27, 2017

OHIO EPA NPDES PERMIT NUMBER: 3 G C 0 8 7 7 3 * A G

RECEIVING WATER:
UNNAMED TRIBUTARY OF POWERS BROOK

SIZE OF PARCEL: 19.89 AC.

PROPOSED AREA OF SOIL DISTURBANCE: 2.25 AC.

PERCENTAGE SOIL DISTURBED: 11.3%

EXISTING IMPERVIOUS SURFACE: 0.61 AC.

NEW IMPERVIOUS SURFACE: 1.08 AC.

ULTIMATE PERCENTAGE IMPERVIOUS AREA: 8.4%

LAND USE

THE CONSTRUCTION ACTIVITY PROPOSED FOR THIS SITE WILL BE CLEARING, GRADING, UTILITY INSTALLATION AND PAVING TO SERVE A NEW EVENT CENTER. CURRENT GROUND COVER CONSISTS OF NATURAL GRASS AND LIGHT WOODS. THE SITE HAS PREVIOUSLY BEEN PARTIALLY DEVELOPED FOR AN OFFICE BUILDING.

RATIONALE

RUNOFF FROM THE DEVELOPED AREA OF THIS PROJECT WILL BE CARRIED TO A DETENTION BASIN WITH A BIORETENTION CELL FOR STORM WATER ATTENUATION AND WATER QUALITY TREATMENT. THE LOCATION WAS CHOSEN BY NECESSITY FOR GRAVITY FLOW OF STORM SEWERS AND AVAILABLE DISCHARGE POINT. SELECTION OF THIS METHOD IS SUPPORTED BY HAVING LIMITED CATCHMENT AREAS AND A GENERAL HISTORY OF EFFECTIVENESS.

CALCULATIONS

STORM WATER MANAGEMENT CONSTRUCTION
VARIOUS STRUCTURAL PRACTICES (SEE PLAN SHEET C103) WILL BE USED,
INCLUDING A TEMPORARY SEDIMENT TRAP.

TRAP DEWATERING VOLUME REQUIRED: 2.10 AC. x 67 CY PER AC. = 141 CY
DEWATERING VOLUME PROVIDED = 185 CY
STORAGE VOLUME REQUIRED: 2.10 AC. x 37 CY PER AC. = 78 CY
STORAGE VOLUME PROVIDED = 80 CY

STORM WATER MANAGEMENT: POST-CONSTRUCTION

THE DETENTION BASIN INCLUDES A BIORETENTION CELL.

CEPA RUNOFF COEFF. EQ. C = $0.85B^3 - 0.7B^2 + 0.7741 + 0.04$
WQV = $(C \times P \times A) / 12$, P = 0.75 INCHES RAINFALL, A = LAND AREA

BASIN CONTRIBUTING AREA % IMPERVIOUS IS 41% (I = 0.41), THUS C = 0.29
WATER QUALITY VOLUME: WQV = $(0.29 \times 0.75 \times 1.084 \text{ AC}) / 12 = 0.0193 \text{ AC-FT}$
EDV PROVIDED = 0.0193 AC-FT. (942 CU. FT.)

DARCY EQUATION: $Q = K \cdot i \cdot A$

K = 0.5 ft/day (0.25 in/hr), CELL AREA A = 5% OF IMPERVIOUS AREA = 970 SQ. FT.

I = 1.12 (HYDRAULIC GRADIENT)
TOP OF MULCH = 1107.45, WQV HIGH WATER SURFACE = 1108.20
MAX. WATER DEPTH IN BIORETENTION CELL = 9"

$Q = 0.50 \times 1.12 \times 970 = 543 \text{ CU. FT./DAY}$

DRAWDOWN TIME = $WQV/Q = 842 / 543 = 1.6 \text{ DAYS (37.2 HRS)}$

TARGET DRAWDOWN TIME = 12 TO 48 HOURS → OK

REQUIRED FOREBAY VOLUME = 10% WQV = 84 CU. FT.

FOREBAY VOLUME PROVIDED = 276 CU. FT. → OK

SCHEDULE OF IMPLEMENTATION

ORDER OF OPERATION	ACTIVITY	RESPONSIBLE CONTRACTOR
1	SELECT AND MARK OFF AREAS OF TREES, SHRUBS AND VEGETATION TO BE REMOVED WITH PAINT OR REBORN.	SURVEYOR
2	CLEARING AND GRUBBING WITHIN DESIGNATED LIMITS	CLEARING
3	INSTALL SILT FENCE & CONSTRUCT TEMPORARY DIVERSIONS	SITE
4	TOPSOIL STRIPPING & STOCKPILING	SITE
5	EXCAVATE TEMP. SEDIMENT TRAP / DETENTION BASIN	SITE
6	MASS GRADING	SITE
7	INFRASTRUCTURE: - SANITARY SEWERS - STORM SEWERS (ADD STORM DRAIN INLET PROTECTION AS WORK PROGRESSES)	SITE
8	PLACE TOPSOIL & TEMPORARY SEEDING ON ALL AREAS TRENCHED FOR UTILITIES AND ALL AREAS AT FINAL GRADE.*	SEEDING
9	FINE GRADING FOR PAVEMENT AREAS	SITE
10	UTILITY TRENCHING: ELECTRIC, TELEPHONE, CABLE & GAS	SITE/UTIL. CO'S
11	SUBGRADE PREPARATION AND PAVEMENT INSTALLATION	PAVER
12	PERMANENT SEEDING	SEEDING
13	INSTALL BIORETENTION SYSTEM**	SITE
14	MODIFY EXISTING OUTLET CONTROL STRUCTURE (SEE C-108)	SITE
15	REMOVE SEDIMENT & EROSION CONTROL DEVICES***	SITE

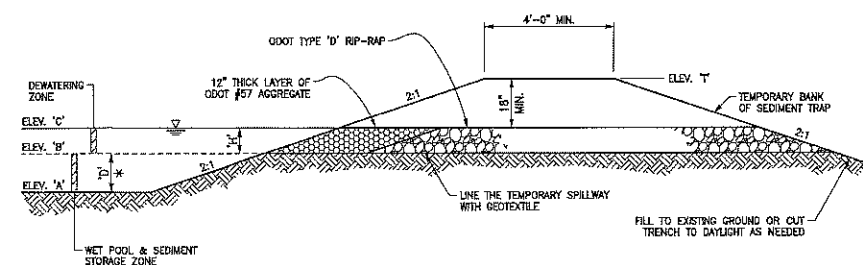
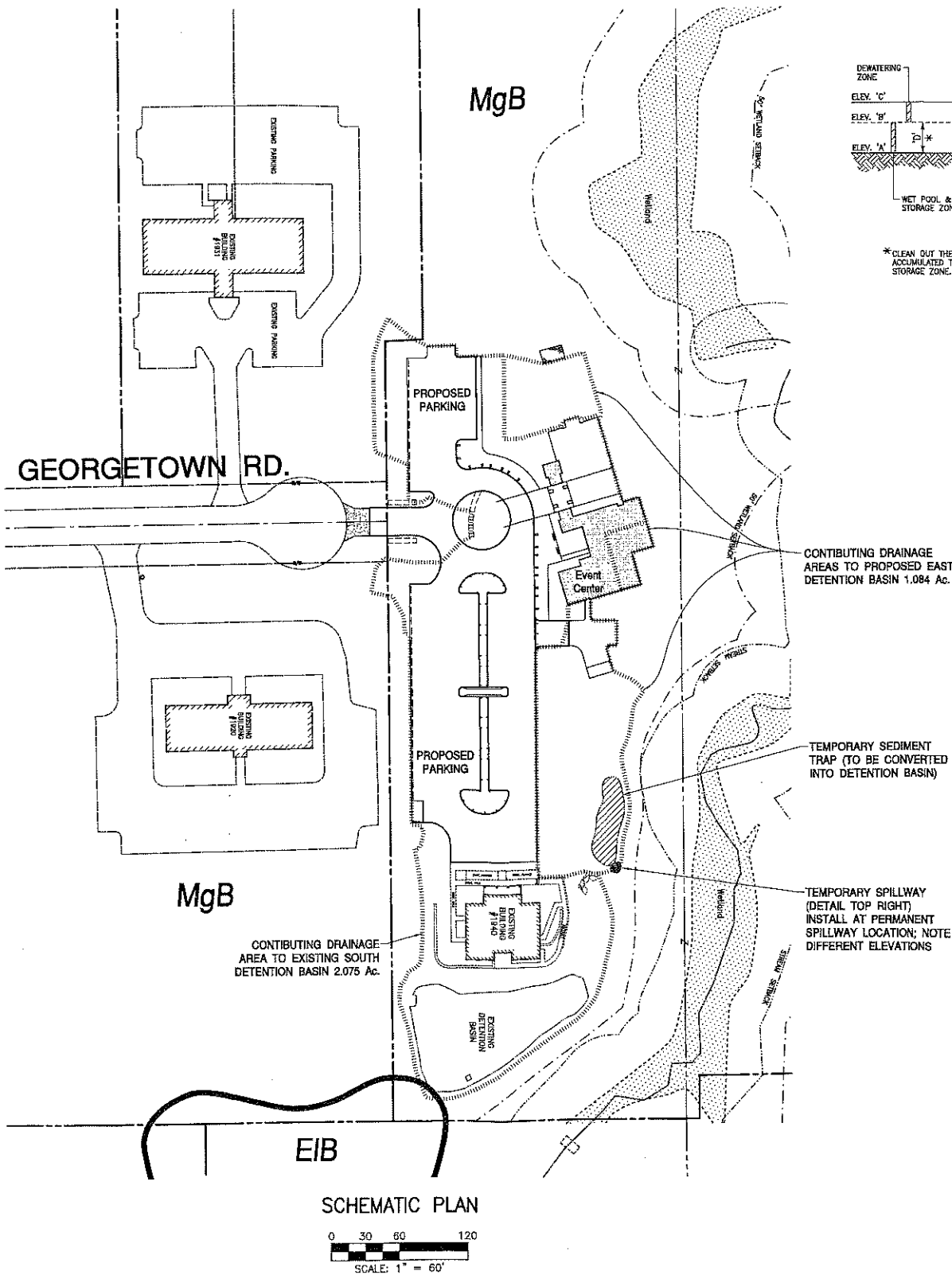
* WHEN SEEDING IS OCCURRING AFTER SEPTEMBER 15, ALL DISTURBED AREAS MUST BE TEMPORARILY SEEDDED AND MULCHED, INCLUDING AREAS FOR UTILITIES.

** DELAY CONSTRUCTION OF THE BIO-RETENTION CELL UNTIL THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED AND HAVE ACHIEVED 70% VEGETATIVE DENSITY.

*** ALL SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. VEGETATIVE SURFACE STABILIZATION, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE UNIFORM RATE OF VEGETATIVE DENSITY (70%) IS OBTAINED.

SOIL TYPE LEGEND

SYMBOL	COMMON NAME	HYDROL. SOIL GROUP	DEPTH TO BEDROCK	DEPTH TO SEASONAL WATER TABLE	RANGE OF SLOPE	PERMEABILITY
EIB	ELLSWORTH SILT LOAM	C	> 6'	1.5' TO 2.5'	0 - 2%	SLOW
MgB	MAHONING SILT LOAM	D	> 5'	1.0' TO 2.5'	2 - 6%	SLOW



BASIN / TRAP #	LATERAL WIDTH OF TRAP WEIR	BOTTOM ELEV. 'A'	DEPTH 'D'	SPILLWAY ELEV. 'B'	HEIGHT 'H'	TOP WEIR ELEV. 'C'	TOP BANK ELEV. 'T'
1	8'	1104.17	2.83'	1107.00	1.40'	1108.40	1109.80

TEMPORARY SEDIMENT TRAP DETAIL (NOT TO SCALE)

SEDIMENT & EROSION CONTROL NOTES:

MINIMIZE TRACKING OF SEDIMENT BY VEHICLES BY UTILIZING THE CONSTRUCTION ENTRANCE AS THE ONLY ENTRANCE FOR VEHICLES. MAINTAIN THIS ENTRANCE WITH STONE AS NEEDED TO PREVENT DIRT AND MUD FROM TRACKING ONTO THE ROADWAY. REGULAR SWEEPING MAY BE NECESSARY TO ENSURE ROADWAY DOES NOT BUILD UP WITH SEDIMENT.

THE OWNER OF RECORD MUST PROVIDE REGULAR INSPECTION AND MAINTENANCE FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF ALL MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY SEVEN (7) DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE NAME OF OWNER'S DESIGNATED INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTIONS AND CORRECTIVE MEASURES TAKEN MUST BE NOTED ON ALL INSPECTIONS.

OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS AND MAY BE REQUIRED AT THE DISCRETION OF THE SUMMIT SOIL AND WATER CONSERVATION DISTRICT OR ITS REPRESENTATIVES.

SEDIMENT/STORMWATER PONDS AND EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP IN GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING. UPON COMPLETION OF CONSTRUCTION OF PONDS, SEEDING AND MULCHING OF ENTIRE CONSTRUCTED POND AREA SHALL IMMEDIATELY FOLLOW TO AID IN THE STABILIZATION AND MINIMIZE EROSION AND SEDIMENT TRANSPORT OF THE SOIL BEFORE WATER LEAVES THE POND. ALL EROSION AND SEDIMENT CONTROLS SHALL CONTINUE TO FUNCTION UNTIL DISTURBED AREAS ARE FULLY RESTABILIZED.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF, INCLUDING WASHING OUT OF CEMENT TRUCKS. DESIGNATED WASH PIT AREAS ARE SHOWN ON THE PLANS AND ARE PRESET FOR THIS PURPOSE AWAY FROM AREAS OF STORM WATER RUNOFF.

IF AN INSPECTION REVEALS A CONTROL PRACTICE NEEDS REPAIR OR MAINTENANCE, EXCEPTING SEDIMENT PONDS, IT MUST BE CORRECTED WITHIN THREE DAYS OF THE INSPECTION. SEDIMENT PONDS MUST BE REPAIRED WITHIN 10 DAYS OF INSPECTION.

IF AN INSPECTION REVEALS A CONTROL PRACTICE IS FAILING TO PERFORM ITS INTENDED FUNCTION, THE SWPS MUST BE AMENDED TO SHOW A MORE APPROPRIATE CONTROL PRACTICE, WHICH MUST BE INSTALLED WITHIN 10 DAYS OF INSPECTION.

IF AN INSPECTION REVEALS A CONTROL PRACTICE HAS NOT BEEN INSTALLED IN ACCORDANCE WITH THE SCHEDULE OF IMPLEMENTATION, THE CONTROL PRACTICE MUST BE IMPLEMENTED WITHIN 10 DAYS OF INSPECTION.

SITE STABILIZATION EITHER PERMANENT OR TEMPORARY MUST FOLLOW THE REQUIREMENTS AS APPLICABLE IN THE FOLLOWING TABLES:

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREA THAT WILL BE DORMANT FOR ONE YEAR OR MORE	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE
ANY AREA WITHIN 50 FEET OF A WATERCOURSE AND AT FINAL GRADE	WITHIN 2 DAYS OF REACHING FINAL GRADE
ANY AREA AT FINAL GRADE	WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREA WITHIN 50 FEET OF A WATERCOURSE AND NOT AT FINAL GRADE	WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE, IF THAT AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS

FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREA, INCLUDING SOIL STOCKPILES, THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A WATERCOURSE.	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
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DISTURBED AREAS THAT WILL BE IDLE OVER THE WINTER	PRIOR TO NOVEMBER 1st
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NOTE: WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. THESE TECHNIQUES MAY INCLUDE MULCHING, EROSION MATTING OR PLACEMENT OF STONE.



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ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURLA
1940 GEORGETOWN ROAD
HUDSON, OH 44236

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HEJDUK-COX AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
32145 Old South Union Road
Salem, Ohio 44139
440-246-1330, Fax 440-246-1419

REV.	REVISIONS
1	ISSUED FOR BIDDING

PROJECT: 12283
DATE: 11/14/2016
DRAWN: JLK
CHECKED: JLK

C104
EROSION & SEDIMENT CONTROL NOTES



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440-248-1330, Fax 248-5419

REVISIONS	ISSUED FOR BIDDING
1	

PROJECT: 12283
DATE: 11/14/2016
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C105
EROSION & SEDIMENT
CONTROL DETAILS

Specifications for Construction Entrance

1. Stone Size - ODOT #2 (1.5-2.5 inch) stone shall be used, or recycled concrete equivalent.
2. Length - The construction entrance shall be as long as required to stabilize high-traffic areas but not less than 70 ft. (exception: apply 30 ft. minimum on single residence lots).
3. Thickness - The stone layer shall be at least 6 inches thick for light-duty entrances or at least 10 inches for heavy-duty use.
4. Width - The entrance shall be at least 14 feet wide, but not less than the full width at points where ingress or egress occurs.
5. Geotextile - A geotextile shall be laid over the entire area prior to placing stone and shall be composed of strong rot-proof polymeric fibers meeting the following specifications:

Minimum Tensile Strength	200 lb.
Minimum Puncture Strength	80 psi
Minimum Tear Strength	90 lb.
Minimum Burst Strength	320 psi
Minimum Elongation	20%
Equivalent Opening Size	EOS < 0.6 mm
Permeability	1x10 ⁻² cm/sec

6. Timing - The construction entrance shall be installed as soon as practical before major grading activities.
7. Culvert - A culvert shall be constructed under the entrance if needed to prevent surface water from flowing across the entrance or to prevent runoff from being directed out onto paved surfaces.
8. Water Bar - A diversion shall be constructed as part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces.
9. Maintenance - Top dressing of additional stone shall be applied as conditions demand. Mud spilled, dropped, washed or tracked onto public roads, or any surface where runoff is not checked by sediment controls shall be removed immediately. Removal shall be accomplished by scraping or sweeping.
10. Construction Entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking. Vehicles that enter and leave the construction site shall be restricted from muddy areas.
11. Removal - The entrance shall remain in place until the disturbed area is stabilized or replaced with a permanent roadway or entrance.

Specifications for Silt Fence

1. Silt fence shall be constructed before upslope land disturbance begins.
2. All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions that may carry small concentrated flows to the silt fence are dissipated along its length.
3. Ends of the silt fences shall be brought upslope slightly so that water ponded by the silt fence will be prevented from flowing around the ends.
4. Silt fence shall be placed on the flattest area available.
5. Where possible, vegetation shall be preserved for 5 feet (or as much as possible) upslope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
6. The height of the silt fence shall be a minimum of 16 inches above the original ground surface.
7. The silt fence shall be placed in an excavated or sliced trench cut a minimum of 6 inches deep. The trench shall be made with a trencher, cable laying machine, slicing machine or other suitable device which will ensure an adequately uniform trench depth.
8. The silt fence shall be placed with the stakes on the downslope side of the geotextile. A minimum of 8 inches of geotextile must be below the ground surface. Excess material shall lay on the bottom of the 6-inch deep trench. The trench shall be backfilled and compacted on both sides of the fabric.

Specifications for Silt Fence

9. Seams between sections of silt fence shall be spliced together only at a support post with a minimum 6-inch overlap prior to driving into the ground (see detail).
10. Maintenance - Silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flows under the fabric or around the ends, or in any other way allows a concentrated flow discharge, one of the following shall be performed, as appropriate:
1) layout of the silt fence shall be changed
2) accumulated sediment shall be removed
3) other practices shall be installed.

Sediment deposits shall be routinely removed when the deposit reaches approximately one-half of the height of the silt fence.

Silt fences shall be inspected after each rainfall and at least daily during a prolonged rainfall. The location of existing silt fence shall be reviewed daily to ensure its proper location and effectiveness. If damaged, the silt fence shall be repaired immediately.

Criteria for Silt Fence Materials

Fabric Properties	Values	Test Method
Minimum Tensile Strength	120 lb.	ASTM D 4632
Maximum Elongation @ 50 lbs.	50%	ASTM D 4632
Minimum Puncture Strength	50 lb.	ASTM D 4633
Minimum Tear Strength	40 lb.	ASTM D 4533
Apparent Opening Size	≤ 0.84 mm	ASTM D 4751
Minimum Permeability	1x10 ⁻² sec ⁻¹	ASTM D 4491
UV Exposure Strength Retention	70%	ASTM G 4355

Specifications for Concrete Washout Area

1. The washout area shall be installed prior to any concrete placement onsite.
2. Sediment tracking control (e.g. temporary stone drive) is required leading to the washout area where concrete trucks will be off a paved surface.
3. The washout area shall be enlarged as necessary to maintain capacity for waste concrete.
4. Waste material from washout operations must be removed and legally disposed of when two-thirds of the wet storage capacity of the containment basin has been reached.
5. At the end of concrete operations, all waste concrete shall be removed and legally transported to an approved disposal site.
6. After removing the washout area, restore the ground grade to original level, seed and mulch (or otherwise stabilize) the disturbed area as per final seeding specifications.

Specifications for Geotextile Inlet Protection

1. Inlet protection shall be constructed either before upslope land disturbance begins or before the inlet becomes functional.
2. The earth around the inlet shall be excavated completely to a depth of at least 16 inches.
3. The wooden frame shall be constructed of 2-inch by 4-inch construction-grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch by 4-inch frame assembled using the overlap joint shown. The top of the frame shall be at least 6 inches below adjacent roads if ponded water will pose a safety hazard to traffic.
4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
5. Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 16 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
6. Backfill shall be placed around the inlet in compacted 6-inch layers until the earth is even with notch elevation on ends and top elevation on sides.
7. A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.

Specifications for Temporary Diversion

1. Drainage area should not exceed 10 acres. Larger areas require a more extensive design.
2. The channel cross-section may be parabolic or trapezoidal. Disc the base of the dike before placing fill. Build the dike 10% higher than designed for settlement. The dike shall be compacted by traversing with tracked earth-moving equipment.
3. The minimum cross-section of the levee or dike will be as follows: (minimum freeboard shall be 0.3 feet)

Dike Top Width (ft.)	Height (ft.)	Side Slope	Shape
0	1.5	4:1	trapezoidal
4	1.5	2:1	parabolic

Where construction traffic will cross, the top width may be made wider and the side slope flatter than specified above.
4. The grade may be variable depending on the topography, but must have positive drainage to the outlet and be stabilized to be non-erosive.

Temporary Diversion Stabilization Treatment

Diversion Slope	< 2 ac.	2 - 6 ac.	5 - 10 ac.
0 - 3%	seed & straw	seed & straw	seed & straw
3 - 6%	seed & straw	seed & straw	seed & straw
6 - 8%	seed & straw	seed & straw	seed & straw
8 - 20%	seed & straw	seed & straw	seed & straw

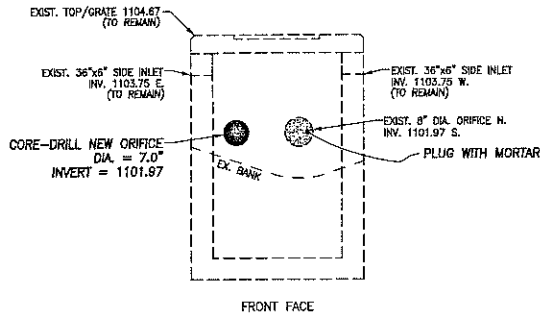
Diversion with steeper slopes or greater drainage areas are beyond the scope of this standard and must be designed for stability. Seed, straw and mulch used shall meet the specifications for Temporary Seeding, Mulching and Matting.
5. Outlet runoff onto a stabilized area, properly designed waterway, grade stabilization structures or sediment trapping facility.
6. Diversion shall be seeded and mulched in accordance with the requirements in practice standards TEMPORARY SEEDING (or PERMANENT SEEDING) and MULCHING as soon as they are constructed or other suitable stabilization in order to preserve dike height and reduce maintenance.

Non-Sediment Pollution Controls

1. No solid or liquid waste, including building materials or their packaging, shall be discharged in storm water runoff.
2. Concrete trucks are not permitted to wash directly into storm sewers, streams or drainage channels.
3. Off-site tracking of sediment by construction vehicles must be minimized.
4. Waste disposal via open burning is prohibited where not permitted under the State of Ohio open burning laws.
5. Contaminated soils or soils where construction site chemicals or petroleum products have been spilled must be treated and/or disposed of at an Ohio EPA-approved solid waste management facility or a hazardous waste treatment, storage or disposal facility (TSDF).
6. Storm water that comes in contact with contaminated soils or solid and industrial waste must be collected and disposed of as a wastewater.
7. Fuel tanks and drums or other containers holding construction site chemicals must be stored within a diked area.
8. Sediment-laden trench or ground water must pass through a sediment-settling pond or be dewatered in place using a sump pit, filter bag or other comparable method prior to being discharged from the site.
9. Trench and ground water free from sediment or other pollutants may be discharged without treatment provided this water does not become pollutant-laden by traversing over disturbed soils or other pollutant sources.
10. No toxic or hazardous wastes shall be disposed into storm drains, septic tanks or by burying, burning or mixing the wastes.
11. Provide covered and leak-proof containers to store debris, trash, and hazardous or petroleum wastes for proper disposal.
12. All construction and demolition debris waste must be disposed of in an Ohio EPA approved C&DO landfill as required by Ohio Revised Code 3714.
13. A spill-prevention and countermeasures (SPCC) plan must be developed for sites with one above-ground storage tank of 660 gallons or more, total above-ground storage of 1,320 gallons, or below-ground storage of 42,000 gallons of fuel.
14. Process wastewaters (equipment washing, leachate and concrete wash-outs) must be collected and disposed of at a publicly-owned treatment works.
15. Use protected storage areas for industrial and construction materials to minimize exposure of such materials to storm water.
16. Petroleum waste spills of 25 gallons or more require notification of Ohio EPA (800-282-5378), local fire department (and if applicable) the local emergency planning committee within 30 minutes. For smaller spills of petroleum-based or petroleum-derived compounds, consult manufacturers' special handling procedures.

CITY OF HUDSON

Mark Richardson



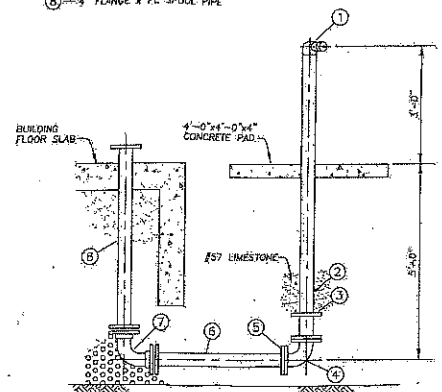
EXISTING OUTLET STRUCTURE MODIFICATIONS
AT SOUTH DETENTION BASIN (BEHIND OFFICE BUILDING)
SCALE: 1/2" = 1'

CITY OF HUDSON CONSTRUCTION NOTES

- CONSTRUCTION OF THE SITE WORK AND UTILITIES SHALL BE GOVERNED BY THE CITY OF HUDSON'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED FOR THE PROJECT.
- THE CONTRACTOR MUST ALERT THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 AT LEAST 48 HOURS BEFORE ANY EXCAVATION IS TO BEGIN.
- ALL EXISTING APPURTENANCES (UTILITY POLES, VALVES, HYDRANTS, MANHOLES, ETC.) ARE TO BE MAINTAINED BY THE CONTRACTOR UNLESS OTHERWISE SHOWN ON THE PLANS.
- THE DESIGN ENGINEER CERTIFIES THAT ALL UTILITIES ARE SHOWN AS THEY APPEAR ON EXISTING RECORDS OR FIELD-LOCATED.
- ALL KNOWN ABOVE AND UNDERGROUND SERVICES HAVE BEEN NOTED ON THE DRAWINGS. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY SERVICES DAMAGED DURING THE CONSTRUCTION OF THE PROJECT WHETHER SHOWN OR NOT ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SERVICE AS SOON AS POSSIBLE AT THE CONTRACTOR'S OWN EXPENSE.
- VIDEO TAPING OF PROJECT SHALL BE DELIVERED AND ACCEPTED BY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF 14 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- NOTIFY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF 48 HOURS (2 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION.
- A PRECONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS (2 WORKING DAYS) AFTER SUBMISSION OF A MINIMUM OF 8 APPROVED SETS OF PLANS AND ALL SHOP DRAWINGS APPLICABLE TO THE PROPOSED IMPROVEMENTS. A PRECONSTRUCTION MEETING MUST BE HELD PRIOR TO START OF ANY CONSTRUCTION.
- THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED AND LINED WITH ORANGE CONSTRUCTION FENCING 48 HOURS (2 WORKING DAYS) PRIOR TO THE PRECONSTRUCTION MEETING. AREAS BEYOND THE LIMITS OF CLEARING AND GRADING SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC.
- ALL ROAD SURFACES, EASEMENTS, OR RIGHT-OF-WAY DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS ARE TO BE RESTORED ACCORDING TO THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION" AS DIRECTED BY THE CITY OF HUDSON AND/OR ITS ENGINEER.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF HUDSON OR ITS REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL OR ANY OTHER MATERIAL THAT MAY CREATE A HEALTH RISK IS DISCOVERED ON SITE.
- ALL DISTURBED STORM SEWERS AND/OR APPURTENANCES, SIGNS, GUARD RAILS, MAIL AND/OR PAPER BOXES, DRIVE CULVERTS, FENCES, TREES, LANDSCAPING, OR OTHER ITEMS DISTURBED BY THE CONSTRUCTION SHALL BE RESTORED OR REPAIRED TO AT LEAST THE BEFORE-CONSTRUCTION CONDITION.
- ANY DEFECTS DISCOVERED IN NEW CONSTRUCTION, WORKMANSHIP, EQUIPMENT OR MATERIALS SHALL BE REPAIRED OR CORRECTED BY APPROVED METHODS AS DIRECTED BY THE CITY OF HUDSON.
- NUCLEAR COMPACTION TESTING SHALL BE REQUIRED FOR ALL FILL AREAS OVER TWO FEET (2') IN DEPTH, AT 6" LIFTS PER ASTM A-1557, 95% MODIFIED.
- APPROVAL BY THE CITY OF HUDSON ENGINEER CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO THE FITNESS, ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS OR SPECIFICATIONS.
- DURING TAPPING OF EXISTING UTILITIES, ANY TRAFFIC CONTROL REQUESTED OR REQUIRED BY THE CITY OF HUDSON WILL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE CITY.
- COMPLIANCE WITH THE OCCUPATIONAL AND SAFETY ACT OF 1970 IS REQUIRED BY ALL CONTRACTORS ON THIS PROJECT.
- ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- ALL DISTURBED AREAS SHALL RECEIVE 4" OF TOPSOIL AND BE SEEDED AND MULCHED AS PER SECTION 9 - LANDSCAPING AND STREET TREES OF THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- IF MUD, SOIL OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AS DIRECTED BY THE CITY OF HUDSON OR ITS ENGINEER AT THE END OF EACH WORK DAY, OR AS REQUIRED DURING THE WORK DAY.
- ALL PROPOSED SLOPES 3:1 OR STEEPER AND ALL EARTHEN DRAINAGE WAYS SHALL RECEIVE JUTE OR EXCELSIOR MATING AS PER ODOT 867 OR 888.
- ALL STORM SEWERS WITHIN PUBLIC RIGHTS-OF-WAY AND CITY OF HUDSON EASEMENTS SHALL BE PER SECTION 4 - STORM COLLECTION OF THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.

- ALL PIPES SHALL BE PLACED OVER 4" OF BEDDING. BEDDING MATERIAL SHALL BE AS SPECIFIED IN CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION, FOR THE TYPE OF PIPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE FLOW OF VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE JOB SITE. TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF HUDSON POLICE DEPARTMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TICKETS SHALL BE REMOVED AND PROPERLY DISPOSED AT THE EXPENSE OF THE CONTRACTOR.
- ALL DELIVERED MATERIALS SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF HUDSON OR OTHER APPLICABLE AGENCIES. THE CITY OF HUDSON, OR ITS REPRESENTATIVE, RESERVES THE RIGHT TO REJECT ANY DELIVERED MATERIAL WHICH DOES NOT CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE CITY OF HUDSON, OR ITS REPRESENTATIVE, RESERVES THE RIGHT TO HALT ALL CONSTRUCTION ACTIVITY FOR NONCONFORMANCE OF PLANS, SPECIFICATIONS AND OTHER APPLICABLE STANDARDS OR REGULATIONS.
- ALL CHANGES TO APPROVED DRAWINGS AND/OR SPECIFICATIONS MUST BE REAPPROVED BY THE CITY OF HUDSON PRIOR TO CONSTRUCTION.
- ALL PAYING MATERIAL MUST BE PROVIDED BY ODOT CERTIFIED SUPPLIER. WRITTEN PROOF SHALL BE REQUIRED UPON DELIVERY OF MATERIALS. THE CERTIFIED MIX DESIGN MUST BE SUBMITTED TO, AND APPROVED BY, THE CITY OF HUDSON PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING.
- CONTRACTOR/DEVELOPER SHALL PROVIDE ALL REQUIRED ROADWAY SIGNAGE AS PER ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES INCLUDING STREET IDENTIFICATION SIGNAGE PER CITY STANDARDS FOR ALL ASPECTS OF THE IMPROVEMENT.
- ALL BONDS AND OR LETTERS OF CREDIT SHALL NOT BE RELEASED OR REDUCED AND NO WATER OR SANITARY SEWER CUSTOMERS CAN BE CONNECTED UNTIL ALL RECORD DRAWINGS HAVE BEEN SUBMITTED, REVIEWED AND APPROVED BY THE CITY OF HUDSON.
- ALL WORK, EXCEPT SIDEWALKS, STREET TREES AND STREET LIGHTS, AS PART OF THESE PLANS SHALL BE COMPLETED, INCLUDING PUNCH LIST ITEMS AND DEFICIENCY WORK WITHIN 1 YEAR OF THE DATE OF APPROVAL BY THE CITY ENGINEER. SIDEWALKS, STREET TREES AND STREET LIGHTS SHALL BE COMPLETED WITHIN TWO YEARS OF THE DATE OF APPROVAL BY THE CITY ENGINEER.
- FAILURE TO COMPLETE THE PROJECT IN ITS ENTIRETY AS APPROVED BY THE PLANNING COMMISSION, INCLUDING PUNCH LIST ITEMS, WILL RESULT IN THE CITY OF HUDSON HOLDING ALL FUTURE ZONING CERTIFICATES UNTIL ALL WORK HAS BEEN COMPLETED AND APPROVED.
- MANUFACTURERS OR SUPPLIERS AFFIDAVIT FOR ALL CONSTRUCTION MATERIALS SHALL BE PROVIDED AS PER THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION PRIOR TO THE START OF CONSTRUCTION.
- THE CONSTRUCTION OF SANITARY SEWERS, WATER MAINS, LIFT STATIONS AND APPURTENANCES IS PROHIBITED UNTIL ALL PLANS HAVE BEEN APPROVED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY.
- ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- ALL SANITARY SEWERS CONSTRUCTED IN SUMMIT COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (SC-DOES) SERVICE DISTRICTS AND SERVED BY SC-DOES SHALL COMPLY WITH SC-DOES REQUIREMENTS.
- SHOP DRAWINGS FOR THE PROPOSED LIGHT FIXTURES SHALL BE ATTACHED TO THE APPROVED LIGHTING PLAN AND SUBMITTED WITH THE SIX SETS OF PLANS AS REQUIRED IN NOTE B. THE LIGHT FIXTURES SHALL HAVE A RECESSED LAMP, FLAT LENSES AND OPTIONAL HOUSE SHIELDING AVAILABLE. THE CITY MAY REQUIRE HOUSE SHIELDS TO BE ADDED AND OTHER MODIFICATIONS AFTER CONSTRUCTION AT THE EXPENSE OF THE CONTRACTOR.
- THE OWNER SHALL SUBMIT A NOTICE OF INTENT (N.O.I.) APPLICATION TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (E.P.A.) AND OBTAIN AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) OR THE LATEST FEDERAL, STATE AND/OR LOCAL REGULATIONS. THE OWNER SHALL SUBMIT A COPY OF THE N.P.D.E.S. PERMIT TO THE CITY OF HUDSON 48 HOURS (2 WORKING DAYS) PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING.

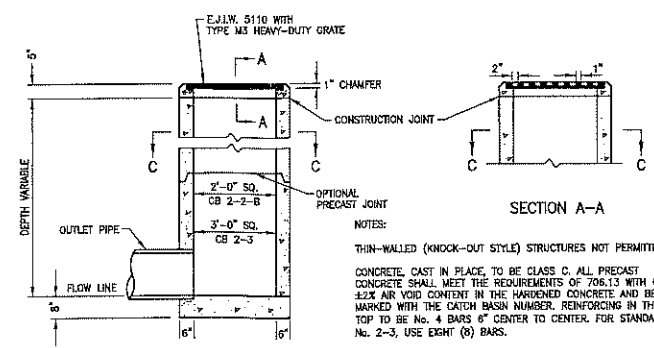
- 4"x2-1/2" NST 80' SLOPE W/ CAPS (FDC) FIRE DEPT. CONNECTION
- 4"x8" GALV. THREADED NIPPLE TAPPED 8" FROM BOTTOM END W/ 1/2" BALL DRIP VALVE
- 4" COMPANION FLANGE AND GASKET SEE SS BOLTS AND NUTS
- 4" FLANGED 90° ELBOW
- 4" E2 FLANGE (EBBA)
- 4" PIPE (RESTRAINED)
- 4" WJ 90° ELBOW W/ MEGALUGS
- 4" FLANGE x PE SPOOL PIPE



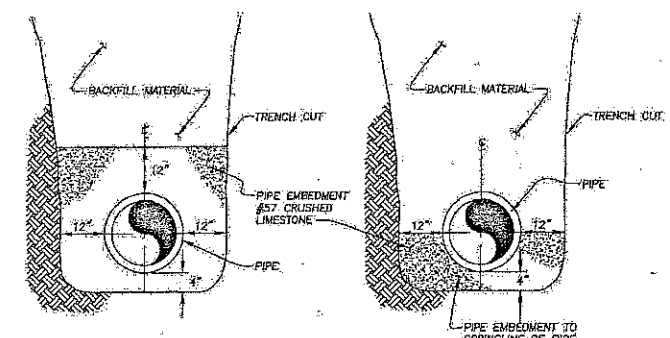
SECTION
FIRE DEPARTMENT CONNECTION
(SIAMESE CONNECTION)
1/2" = 1'-0"

SEE DISCLAIMER STATEMENT ON THE TITLE PAGE OF THESE ENGINEERING STANDARDS
HYDRAULIC 05-13-02

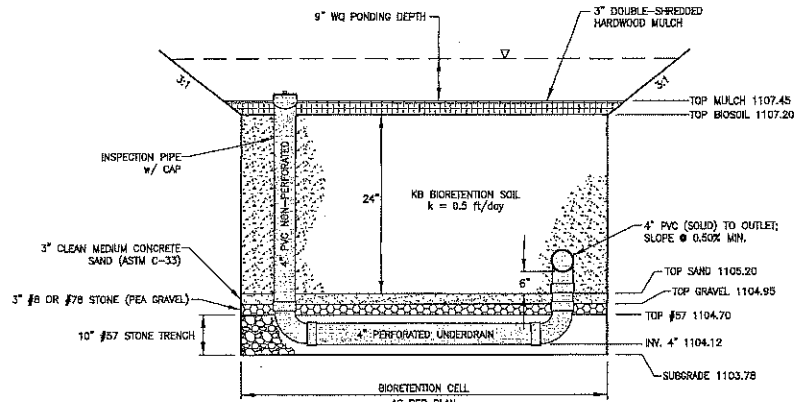
FIG 2.15.6



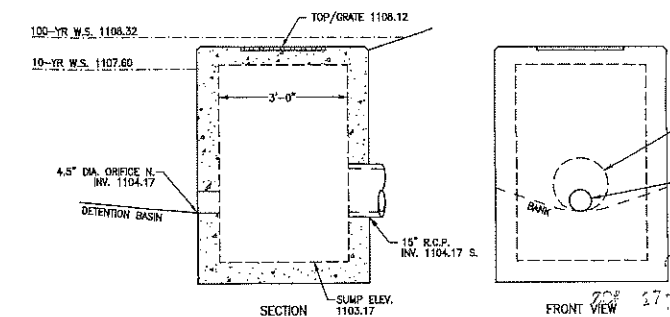
CATCH BASIN 2-2-B, 2-3



- BIORETENTION NOTES:
- IT IS CRITICAL TO PRESERVE THE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL. DELAY FULL EXCAVATION OF THE BOTTOM OF THE BIORETENTION CELL BY PRESERVING THE IN-SITU SOIL APPROXIMATELY 8 INCHES ABOVE THE DESIGN SUBGRADE ELEVATION UNTIL AFTER THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED AND HAVE ACHIEVED 70% VEGETATIVE DENSITY. THEN INSTALL THE UNDERDRAIN AND THE GRAVEL, SAND AND BIORETENTION FILTER MEDIA LAYERS.
 - EXCAVATE BIO-CELL TO FINAL DEPTH AND DESIGN DIMENSIONS AND INSTALL 4" UNDERDRAIN.
 - PLACE SAND & PEA GRAVEL FILTER LAYERS.
 - PLACE BIO-RETENTION DESIGN MATERIAL (PLANTING MEDIA) "KB BIORETENTION SOIL" FROM KURTZ BROS., INC. 6415 GRANGER ROAD, INDEPENDENCE, OH, 44131 PH: 216-988-7000
 - MULCH TOP OF BIORETENTION MEDIA SURFACE AND SEED SURROUNDING BANKS IMMEDIATELY.
- BIORETENTION MEDIA:
IT IS RECOMMENDED THAT BIORETENTION DESIGN MATERIAL BE TESTED AND CERTIFIED TO MEET THE FOLLOWING CRITERIA:
LOAMY SAND (AT LEAST 80% SAND AND NO MORE THAN 10% CLAY)
pH RANGE FROM 5.2-6.0, ORGANIC MATTER 3 TO 5% BY WEIGHT (8 TO 20% BY VOLUME)
PHOSPHORUS 15 TO 60 mg/kg (ppm)
SOLUBLE SALTS NOT TO EXCEED 500 PPM



DETAIL OF BIORETENTION CELL



OUTLET STRUCTURE
MODIFIED ODOT 'CB 2-3'
SCALE: 1/2" = 1'

STATE OF OHIO
JASON L. KENIG
E-61676
REGISTERED PROFESSIONAL ENGINEER
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ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURLA
1940 GEORGETOWN ROAD
HUDSON, OH 44236

HEJDUK-COX AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
23145 Old South Main Road
Solon, Ohio 44139
440-248-1332 Fax 248-2419

NO.	REVISIONS	DATE	BY	CHKD.
1	01/12/16 PER CITY ENGINEER			
2	11/04/16 PER OWNER			
3	ISSUED FOR BIDDING			

PROJECT: 12283
DATE: 11/14/2016
DRAWN: J.L.K.
CHECKED: J.L.K.

C106
CONSTRUCTION DETAILS



APPROVED PIPE, FITTINGS, BOLTS, ETC.
FOR AKRON SYSTEM WATER MAIN INSTALLATIONS

Pipe:	Class 53 ductile iron per AWWA C151 specifications, with cement lining per AWWA C104. Labeled polyethylene encasement per AWWA C105 is required.
Pipe Joints:	Push-on joints (Tyton, Bell-Tite, etc.) per AWWA C151 specifications with plain or restraining rubber gaskets per AWWA C111 specifications.
Fittings:	Class 530 ductile iron compact fittings per AWWA C153 or full thickness castings per AWWA C110 are acceptable, with mechanical joint ends and ductile iron follower glands. Anchor pipe is required on all hydrant runs between the tee and hydrant run valve.
Restrained pipe systems:	Push-on joint with Field Lock (4 through 12 inch only) or Fast Grip gaskets (4 through 12 inch only), or mechanical joint with restrained follower glands, and 6 ounce zinc anode caps on every other bolt thread. Super Lock, TR Flex or Flex Ring required on all 16 inch or larger pipe diameters.
Restrained fitting reviews:	All valves, bends, offsets, hydrant inlets, caps, plugs, and branches of tees and wyes must be restrained using mechanical joint with restrained follower glands or restraining gaskets. Hardwood blocking is required for all diameters 4 through 8 inch, concrete blocking and strapping for all diameters 12 inch and larger. Concrete blocking is required on all fire lines and on all diameters in excess of 100 psi. Restrained joints for diameters 12 inch and under shall be installed for a length of 30 feet on each side of a valve, bend or offset using Field Lock or Fast Grip restraining gaskets or mechanical joint with restrained follower glands. Restrained joints for diameters 16 inch and larger, shall be installed for a length of 30 feet on each side of a valve, bend or offset using mechanical joint with restrained follower glands.
Mechanical Joint Thread Bolts:	All mechanical joints shall be made with Cor-Ten or construction grade alloyed ductile iron bolts. T-head bolts shall be 1/2 inch longer than standard length and must include a 6 oz. zinc anode cap on every other bolt thread.
Hydrants:	Akron-style Mueller "Centurian" Model A423, Kennedy "Guardian" Model K-81A, American Flow Control Model B62B with 6 inch inlet, American Flow Control Model B84B with 8 inch inlet. Threads shall be Akron style as shown on Akron Water Works Standard Construction Drawings F-3258 and F-3440.
Gate Valves:	Resilient seat wedge (RSW) valves with restrained mechanical joints. Valves shall have non-rising stems and shall open to the right (clockwise).
Butterfly Valves, 24 inch and up:	Restrained mechanical joint or shouldered (not grooved) Victaulic ends with Style 44N couplings and stainless steel 316 bolts. Rubber seals in the valve must be replaceable. Flanged end or wafer-style valves are not acceptable.
Valve Boxes:	Only Bibby, Tyton, East Jordan, or Bingham and Taylor brands acceptable for compatibility.
Curb Boxes:	Riser pipe must be of alloy corrosion resistant material. Plug must be cast iron and thread into a brass ring.
Revised 3/07	

Page #3

Acc. F-14908



CITY OF AKRON
PUBLIC UTILITIES BUREAU
BACKFLOW PREVENTION PROGRAM
(330) 375-2690

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY

Installation Requirements

- All piping to conform to Akron Water Works Standard Construction Drawings and Specifications.
- Bypassing of this assembly is specifically prohibited.
- Installation of this assembly in vaults is specifically prohibited.
- Unions prior to backflow prevention assemblies are prohibited.
- Installed directly after the meter setting ahead of any outlets.
- Installed so as to be readily accessible for inspection, testing, and maintenance.
- Provided with adequate space for inspection, testing, maintenance, and disassembly.
- Protected from freezing by installation within a heated building.
- Mounted in a horizontal position with abutting shut-off valves, as supplied with the assembly, three feet above finished floor.
- Provided with adequate drainage.
- Installed so that there is a visible free discharge from the relief port with no extension piping.
- Installed as per manufacturer's specifications. Where manufacturer's specifications conflict with these guidelines, these guidelines shall govern.
- Because of their design, backflow prevention assemblies create a closed system and a detectable pressure loss. Because of these facts, the installation may alter the hydraulics of the internal plumbing system. The owner should contact a mechanical designer prior to installation.
- Upon installation, assemblies must be tested by a backflow prevention assembly tester, certified by the Ohio Department of Commerce. The assembly must be dismantled, inspected internally, cleaned, and repaired, if necessary.

Rev. 3/07

Page #15

Acc. F-13859



CITY OF AKRON
PUBLIC UTILITIES BUREAU
BACKFLOW PREVENTION PROGRAM
(330) 375-2690

DOUBLE CHECK DETECTOR ASSEMBLY

Installation Requirements

- All piping to conform to Akron Water Works Standard Construction Drawings and Specifications.
- Bypassing of this assembly is specifically prohibited.
- The bypass meter and the small double check valve assembly on the bypass line shall be approved by the City of Akron Water Department, furnished and installed by the owner.
- Unions prior to backflow prevention assemblies are prohibited.
- Installed so as to be readily accessible for inspection, testing, and maintenance.
- Provided with adequate space for inspection, testing, maintenance, and disassembly.
- Protected from freezing by installation within a heated building or an approved precast meter vault.
- Mounted in a horizontal position with abutting shut-off valves, as supplied with the assembly, three feet above finished floor.
- Installations above ground level are preferred. Where above ground installations are not reasonably practical, a vault may be used with the approval of the Public Utilities Bureau.
- Installed as per manufacturer's specifications. Where manufacturer's specifications conflict with these guidelines, these guidelines shall govern.
- Because of their design, backflow prevention assemblies create a closed system and a detectable pressure loss. Because of these facts, the installation may alter the hydraulics of the internal plumbing system. The owner should contact a mechanical designer prior to installation.
- Upon installation, assemblies must be tested by a backflow prevention assembly tester, certified by the Ohio Department of Commerce. The assembly must be dismantled, inspected internally, cleaned, and repaired, if necessary.

Rev. 3/07

Page #18

Acc. F-14909



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ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURLA
1940 GEORGETOWN ROAD
HUDSON, OH 44236

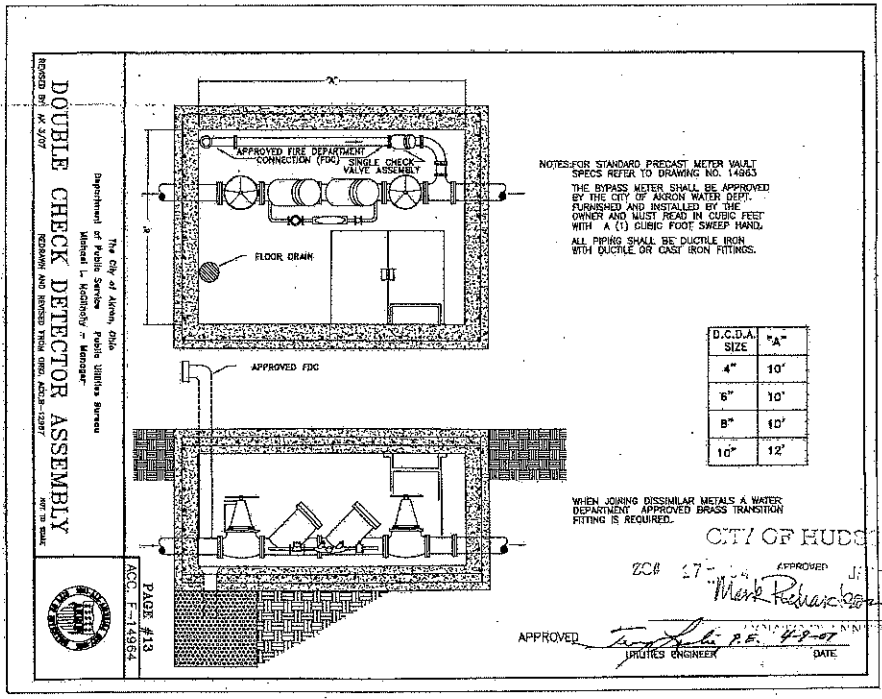
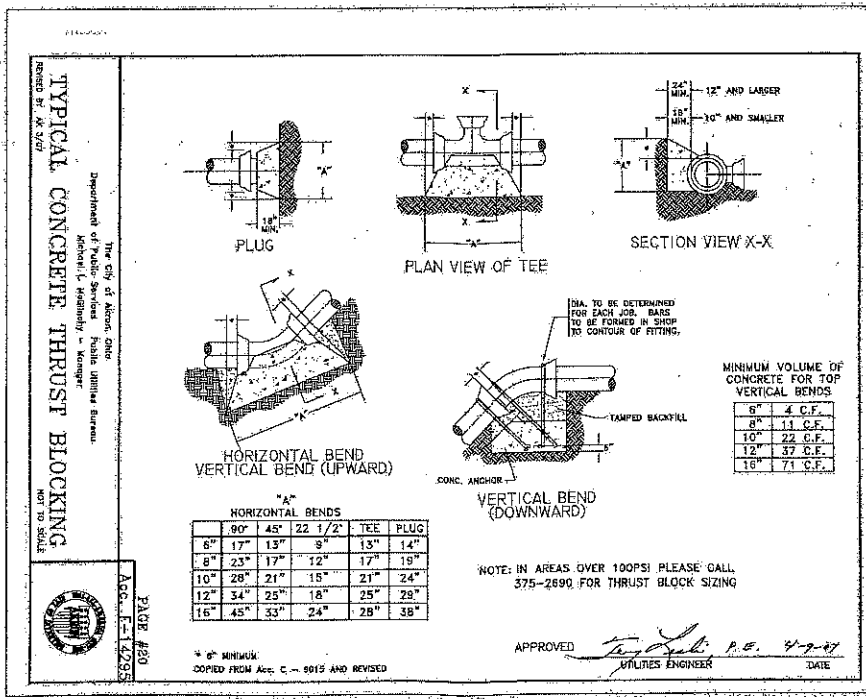
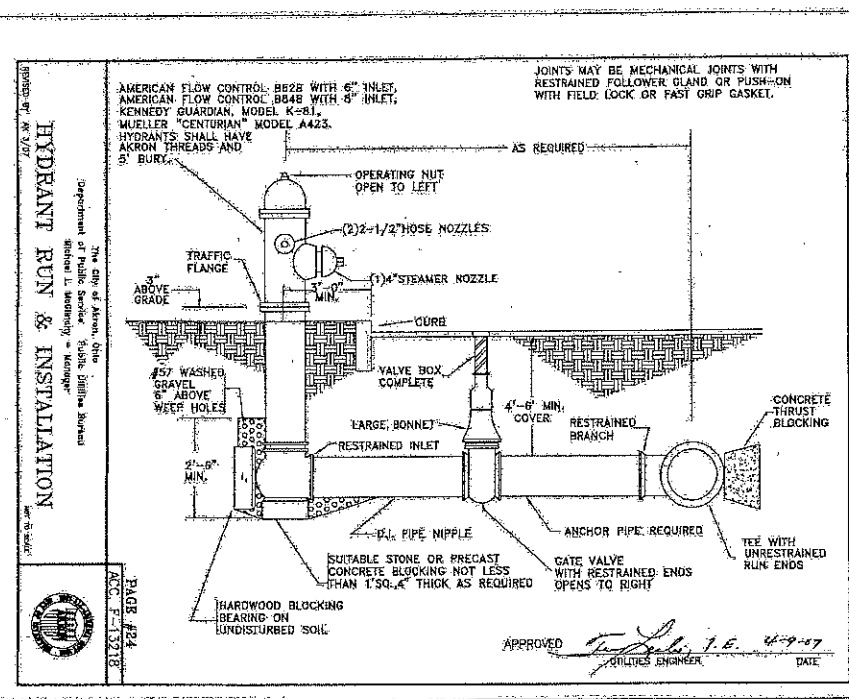
HEJDUK-COX AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
32145 Old South Main Road
Buckeye, Ohio 44829

REVISIONS	ISSUED FOR BIDDING
No.	
1	

PROJECT: 12283
DATE: 11/14/2018
DRAWN: J.L.K.
CHECKED: J.L.K.

C107

AKRON WATER DETAILS





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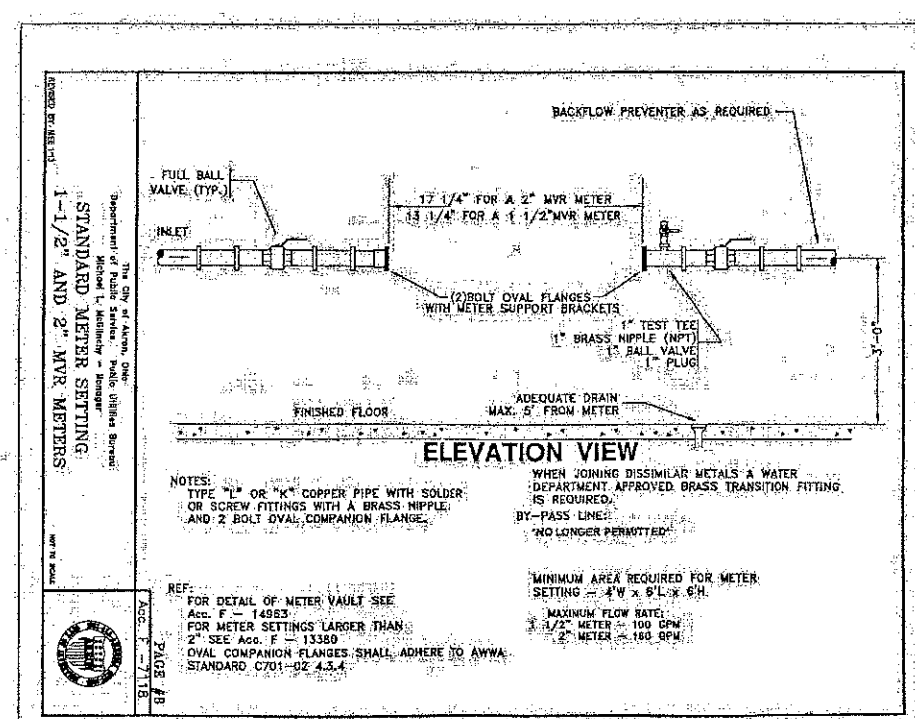
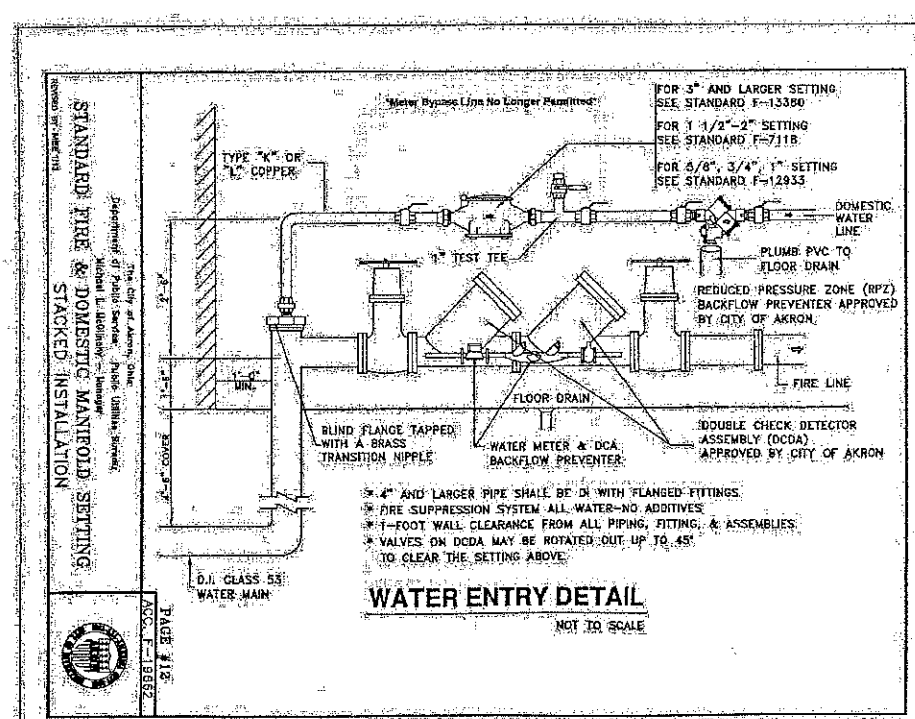
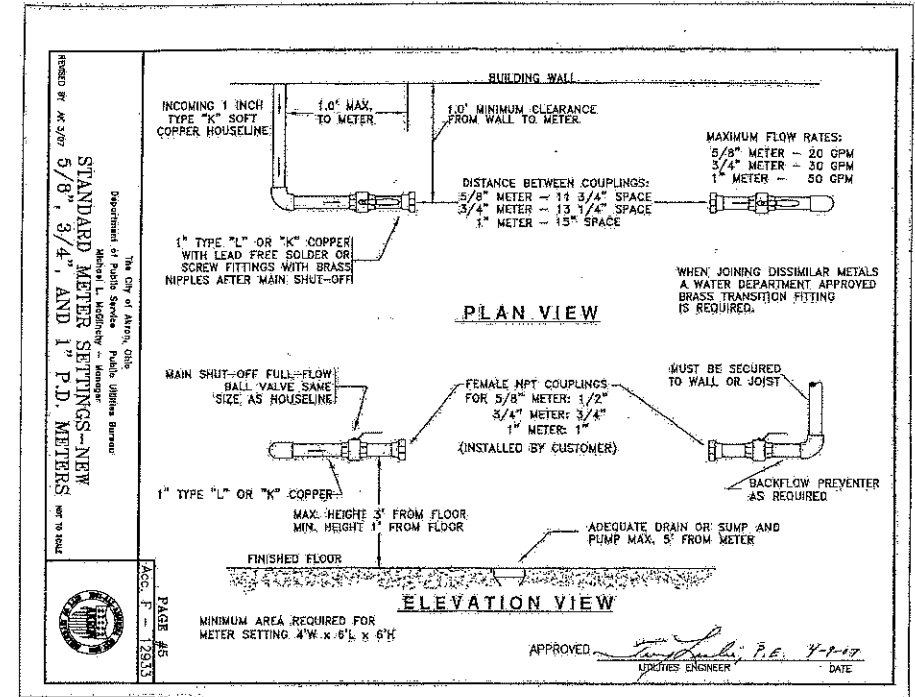
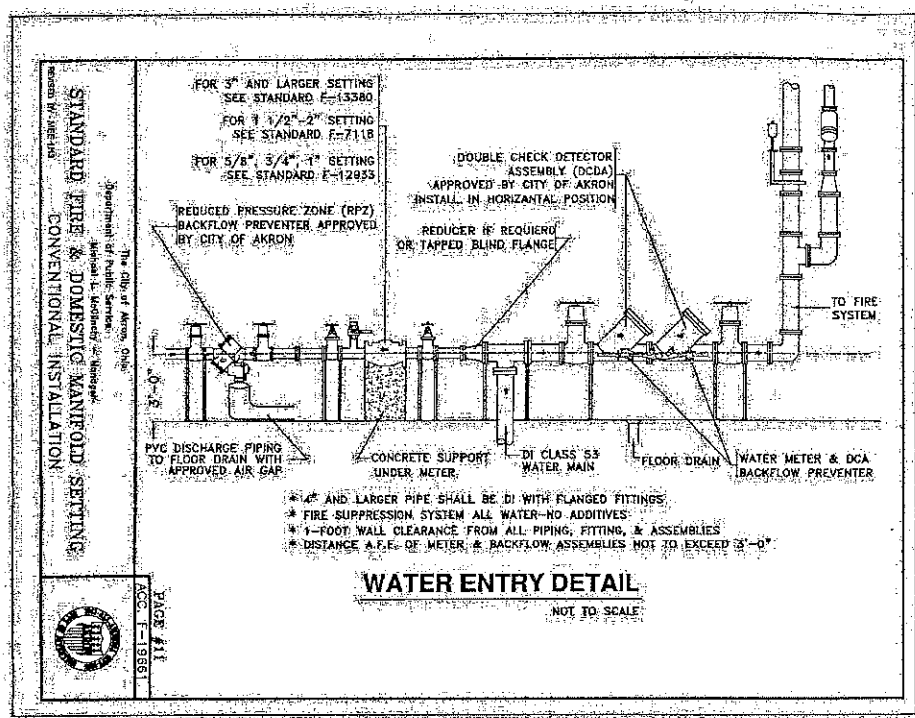
ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURYLA
1940 GEORGETOWN ROAD
HUDSON, OH 44236

HEJDUK-COX AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
38714 Old South Main Road
Solon, Ohio 44139
440-248-1200 Fax 440-248-0419

REVISIONS	
NO.	ISSUED FOR BIDDING
1	

PROJECT: 12283
DATE: 11/14/2016
DRAWN: JUK
CHECKED: JUK

C108
AKRON WATER DETAILS



CITY OF HUDSON
ZON 17-004
APPROVED: *Mark Richardson*
DATE: 11/14/2016

SCHEDULE - PLANTING PLAN

DECIDUOUS SHADE TREES & ORNAMENTALS						
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING	NOTES (ALL SUBSTITUTIONS REVIEWED FOR APPROVAL)
AC RU	Autumn Flame Red Maple	<i>Acer rubrum</i> 'Autumn Flame'	4" CAL.	B&B	PER PLANS	TRUNK FREE OF BRANCHES, 6'-7' HEIGHT. MATCH HABIT & FORM. <u>SUBSTITUTIONS:</u> 'AUTUMN BLAZE' OR 'OCTOBER GLORY' - 4" CAL. MIN.
AC SA	Green Mountain Sugar Maple	<i>Acer saccharum</i> 'Green Mountain'	5" CAL.	B&B	27'-0" O.C. TYP.	TRUNK FREE OF BRANCHES, 6'-7' HEIGHT. MATCH HABIT & FORM. <u>SUBSTITUTIONS:</u> 'COMMEMORATION' OR 'LEGACY' - 4" CAL. MIN.
AM GR	Autumn Brilliance Serviceberry	<i>Amelanchier x grandifolia</i> 'Autumn Brilliance'	12" HT. CLUMP	B&B	8'-6" O.C. TYP.	MULTISTEM TREE. MATCH HABIT & FORM.
BE NI	Heritage Riverbirch	<i>Betula Nige</i> 'Heritage' (Singlestem)	3" CAL. MIN.	B&B	PER PLANS	SINGLESTEM TREE. MATCH HABIT & FORM. <u>SUBSTITUTIONS:</u> NYSSA SYLVATICA - 4" CAL. MIN.
BE PO	Whitespire Birch	<i>Betula populifolia</i> 'Whitespire'	14" HT. CLUMP	B&B	6'-0" O.C. TYP.	MULTISTEM TREE. MATCH HABIT & FORM. <u>SUBSTITUTIONS:</u> CORNUS FLORIDA 'CHEROKEE PRINCESS' - 2" CAL. MIN.
CR VI	Winterking Hawthorn	<i>Crataegus viridis</i> 'Winter King' var. <i>inermis</i>	3" CAL.	B&B	PER PLANS	SINGLESTEM TREE. MATCH HABIT & FORM
CE CA	Eastern Redbud	<i>Cercis Canadensis</i>	2" CAL.	B&B	PER PLANS	MULTISTEM TREE. MATCH HABIT & FORM
MA PR	Prairifire Crabapple	<i>Malus 'Prairifire'</i>	10" HT. CLUMP	B&B	15'-0" O.C. TYP.	MULTISTEM TREE. MATCH HABIT & FORM
MA VI	Sweetbay Magnolia	<i>Magnolia virginiana</i>	10" HT. CLUMP	B&B	PER PLANS	MULTISTEM TREE. MATCH HABIT & FORM
PL AC	Bloodgood London Plane Tree	<i>Platanus x acerifolia</i> 'Bloodgood'	4" CAL.	B&B	15'-0" O.C. TYP.	TRUNK FREE OF BRANCHES, 6'-7' HEIGHT. SINGLESTEM TREE. MATCH HABIT & FORM
PL OC	American Sycamore	<i>Platanus occidentalis</i>	4" CAL.	B&B	PER PLANS	SINGLESTEM TREE. MATCH HABIT & FORM
QU BI	Swamp White Oak	<i>Quercus bicolor</i>	3" CAL.	B&B	PER PLANS	SINGLESTEM TREE. MATCH HABIT & FORM
QU CO	Scarlet Oak	<i>Quercus coccinea</i>	3" CAL.	B&B	PER PLANS	TRUNK FREE OF BRANCHES, 6'-7' HEIGHT. SINGLESTEM TREE. MATCH HABIT & FORM
QU IM	Shingle Oak	<i>Quercus imbricaria</i>	3" CAL.	B&B	PER PLANS	TRUNK FREE OF BRANCHES, 6'-7' HEIGHT. SINGLESTEM TREE. MATCH HABIT & FORM
QU PA	Pin Oak	<i>Quercus palustris</i>	3" CAL.	B&B	PER PLANS	TRUNK FREE OF BRANCHES, 6'-7' HEIGHT. SINGLESTEM TREE. MATCH HABIT & FORM
QU SH	Shumard Oak	<i>Quercus shumardii</i>	3" CAL.	B&B	PER PLANS	TRUNK FREE OF BRANCHES, 6'-7' HEIGHT. SINGLESTEM TREE. MATCH HABIT & FORM
TI CO	Greenspire Littleleaf Linden	<i>Tilia Cordata</i> 'Greenspire'	4" CAL.	B&B	PER PLANS	TRUNK FREE OF BRANCHES, 6'-7' HEIGHT. SINGLESTEM TREE. MATCH HABIT & FORM. <u>SUBSTITUTIONS:</u> TILIA CORDATA, TILIA MONGOLICA 'HARVEST GOLD' - 4" CAL. MIN., ALNUS GLUTINOSA
UL PA	Allee Lacebark Elm	<i>Ulmus parvifolia</i> 'Emer II' (allee)	4" CAL.	B&B	PER PLANS	TRUNK FREE OF BRANCHES, 6'-7' HEIGHT. SINGLESTEM TREE. MATCH HABIT & FORM. <u>SUBSTITUTIONS:</u> ULMUS AMERICANA 'PRINCETON' OR ULMUS PARVIFOLIA 'BOSQUE' - 4" CAL. MIN.
DECIDUOUS & EVERGREEN SHRUBS						
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING	NOTES (ALL SUBSTITUTIONS REVIEWED FOR APPROVAL)
BU DA	Butterfly Bush	<i>Buddleia davidii</i>	-	NO 3. CONT.	3'-0" O.C. TYP.	<u>SUBSTITUTIONS:</u> DEUTZIA GRACILIS 'NIKKO' - NO. 3 CONT.
BU GR	Green Velvet Boxwood	<i>Buxus</i> 'Green Velvet'	24"	B&B	2'-0" O.C. TYP.	
BU SE	Vardar Valley Boxwood	<i>Buxus sempervirens</i> 'Vardar Valley'	24"	B&B	2'-0" O.C. TYP.	
FO GA	Mt. Airy Fothergilla	<i>Fothergilla gardenii</i> 'Mt. Airy'	24"	NO. 5 CONT.	3'-0" O.C. TYP.	<u>SUBSTITUTIONS:</u> ARNOIA MELANOCARPA 'AUTUMN MAJIC' - 30" NO. 5 CONT.
HY PA	Little Lime Hydrangea	<i>Hydrangea paniculata</i> 'Little Lime'	30"	NO. 5 CONT.	3'-0" O.C. TYP.	
HY QU	Pee Wee Oakleaf Hydrangea	<i>Hydrangea quercifolia</i> 'Pee Wee'	36"	NO. 5 CONT.	3'-0" O.C. TYP.	<u>SUBSTITUTIONS:</u> HYDRANGEA QUERCIFOLIA 'SIKES DWARF' - 36" B&B
IL VE	Cacapon Winterberry	<i>Ilex verticillata</i> 'Cacapon'	36"	B&B	4'-0" O.C. TYP.	<u>SUBSTITUTIONS:</u> ILEX VERTICILLATA - 36" B&B
IT VI	Little Henry Dwarf Sweetaspire	<i>Itea virginica</i> 'Little Henry'	24"	NO. 3 CONT.	PER PLANS	
MY PE	Northern Bayberry	<i>Myrica pensylvanica</i>	36"	B&B	3'-0" O.C. TYP.	<u>SUBSTITUTIONS:</u> ILEX X MESERVEAE 'CHINA GIRL' & ILEX X MESERVEAE 'CHINA BOY' - 36" B&B. (PLANT 1 'CHINA BOY' FOR 6 'CHINA GIRL')
NE FA	Walker's Low Catmint	<i>Nepeta x faassenii</i> 'Walker's Low'	-	NO. 2 CONT.	2'-0" O.C. TYP.	
RH AR	Gro-low Fragrant Sumac	<i>Rhus aromatica</i> 'Gro-low'	24"	B&B	3'-0" O.C. TYP.	
SP JA	Little Princess Spirea	<i>Spiraea japonica</i> 'Little Princess'	30"	B&B	3'-0" O.C. TYP.	
SY JU	Red Pixie Lilac	<i>Syringa julianae</i> 'Reds Pixie'	36" B&B	B&B	PER PLANS	<u>SUBSTITUTIONS:</u> SYRINGA PATULA 'MISS KIM' 36" B&B
TA ME	Chadwick Yew	<i>Taxus x media</i> 'Chadwick'	24"	B&B	3'-0" O.C. TYP.	<u>SUBSTITUTIONS:</u> ILEX CRENATA 'GREEN LUSTRE' - 24" B&B
VI CA	Compact Korean Spire Viburnum	<i>Viburnum carlesii</i> 'Compactum'	24"	NO. 3 CONT.	PER PLANS	
WE FL	Sonic Bloom Pearl Weigela	<i>Weigela florida</i> 'Sonic Bloom Pearl'	24"	NO. 3 CONT.	3'-0" O.C. TYP.	
GRASSES & PERENNIALS/ANNUALS						
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING	NOTES (ALL SUBSTITUTIONS REVIEWED FOR APPROVAL)
AN PL	ANNUAL PLANTING	-	-	-	-	BY OWNER
CA GR	Gray's Sedge	<i>Carex grayi</i>	12" HT.	NO. 1 CONT.	12" O.C.	BIOSWALE PLANT MIX
CA LU	Shallow Sedge	<i>Carex lurida</i>	12" HT.	NO. 1 CONT.	12" O.C.	BIOSWALE PLANT MIX
IR PS	Yellow Flag	<i>Iris pseudacorus</i>	12" HT.	NO. 2 CONT.	12" O.C.	BIOSWALE PLANT MIX
IR VI	American Blue Flag	<i>Iris versicolor</i>	12" HT.	NO. 2 CONT.	12" O.C.	BIOSWALE PLANT MIX
LO CA	Red Cardinal Flower	<i>Lobelia cardinalis</i>	-	NO. 2 CONT.	12" O.C.	BIOSWALE PLANT MIX
LO SP	Great Blue Lobelia	<i>Lobelia siphilitica</i>	-	NO. 2 CONT.	12" O.C.	BIOSWALE PLANT MIX
NARC	Daffodil	<i>Narcissus</i>	-	PLUGS	8" O.C.	
PE AL	Little Bunny Fountain Grass	<i>Pennisetum alopecuroides</i> 'Little Bunny'	12" HT.	NO. 1 CONT.	10" O.C.	
PE PL	PERENNIAL PLANTING	-	-	-	-	BY OWNER
GROUNDCOVER & VINES						
CODE	COMMON NAME	LATIN NAME	SIZE	COND.	SPACING	NOTES (ALL SUBSTITUTIONS REVIEWED FOR APPROVAL)
CLEM	Clematis	<i>Clematis 'Jackmanii'</i>	-	NO. 2 CONT.	18" O.C.	
LISP	Creeping Lily Turf	<i>Liriope spicata</i>	-	NO. 1 CONT.	12" O.C.	
PATE	Green Sheen Pachysandra	<i>Pachysandra terminalis</i> 'Green Sheen'	2" CELL	BARE ROOT	4" O.C.	<u>SUBSTITUTIONS:</u> AJUGA REPTANS - 4" O.C.
VIMI	Sterling Silver Periwinkle	<i>Vinca minor</i> 'Sterling Silver'	2" CELL	BARE ROOT	4" O.C.	<u>SUBSTITUTIONS:</u> VINCA MINOR 'ATROPURPUREA' - 4" O.C.

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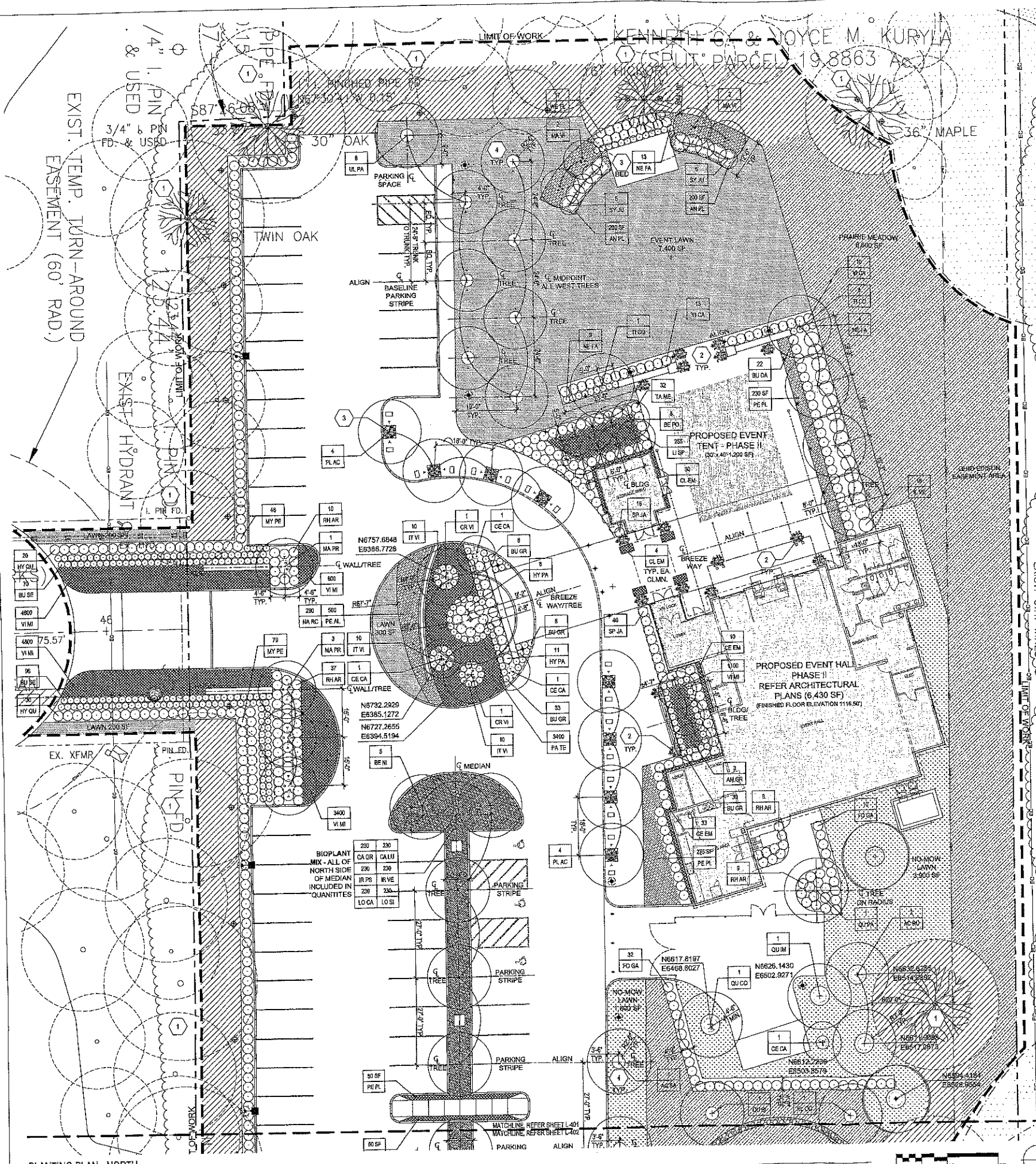
ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURYLA
1340 GEORGETOWN ROAD
HUDSON, OH 44236

BID SET
CONSTRUCTION
DOCUMENTS

PROJECT: H14001
DATE: 06/13/2016
DRAWN: DLK
CHECKED: DLK-HGH

CITY OF HUDSON
APPROVED: JUN 17 2016
Mark P. [Signature]
PLANTING SCHEDULE

L-400



GENERAL NOTES - PLANTING PLAN

1. STAKE ALL TREE LOCATIONS FOR REVIEW PRIOR TO INSTALLATION. ALL PLANTING PROCEDURES ARE SUBJECT TO THE REVIEW OF THE OWNER AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES FOUND AT NO ADDITIONAL COST TO THE OWNER.
2. SECURE PLANT MATERIAL AS SPECIFIED ON PLANS. IN THE EVENT THAT PLANT MATERIALS SPECIFIED ARE NOT AVAILABLE, CONTACT OWNER FOR APPROVED SUBSTITUTIONS. NO SUBSTITUTIONS FOR PLANT MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL.
3. VERIFY THAT ALL PLANTING PRODUCTS, PLANT MATERIAL, AND PLANT QUANTITIES DELIVERED TO THE SITE MATCH WHAT IS INDICATED ON THE PLANS AND SPECIFICATIONS.
4. PROTECT ALL PLANT MATERIAL DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALLS, TRUNKS, BRANCHES AND THE DESICCATION OF LEAVES. PROTECT ALL PLANT MATERIAL DURING SHIPPING WITH SHADE CLOTH OR SHIP WITH ENCLOSED TRANSPORT. MAINTAIN PROTECTIONS AND HEALTH OF PLANT MATERIAL STORED ON SITE. HANDLE ALL TREES WITH NYLON STRAPS. NO CHAINS OR CABLES WILL BE ALLOWED. REMOVE UNACCEPTABLE PLANT MATERIAL IMMEDIATELY FROM THE SITE.
5. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, WELL FORMED, TRUE TO SPECIES, HARDENED OFF WITH VIGOROUS ROOT SYSTEMS, FULL CROWN AND CANOPIES, AND FREE FROM DISEASE, PESTS AND INSECTS, AND DEFECTS SUCH AS KNOTS, SUN SCALD, WINDBURN, LEAF DIS-COLORATION, IRREGULAR BRANCHING OR INJURIES.
6. ALL ROOT BALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN "AMERICAN STANDARDS FOR NURSERY STOCK".
7. ALL PLANT MATERIAL DELIVERED TO THE SITE IS SUBJECT TO THE REVIEW OF THE OWNER BEFORE, DURING AND AFTER INSTALLATION.
8. PROVIDE PLANT SAMPLES OR PHOTOGRAPHS OF EACH PLANT SPECIFIED TO THE LANDSCAPE ARCHITECT FOR COMPLIANCE REVIEW PRIOR TO INSTALLATION.
9. TEST FILL ALL TREE AND PLANTING PITS WITH WATER, PRIOR TO PLANTING, TO ASSURE PROPER SOIL PERCOLATION. PITS WHICH DO NOT ADEQUATELY DRAIN SHALL BE FURTHER EXCAVATED TO A DEPTH SUFFICIENT FOR DRAINAGE TO OCCUR AND/OR BACKFILLED WITH SUITABLE DRAINAGE GRAVEL. NO ALLOWANCES SHALL BE MADE FOR PLANT MATERIAL LOSS DUE TO IMPROPER DRAINAGE. CONTRACTOR SHALL REPLACE DEAD OR DAMAGED PLANT MATERIAL AS A RESULT OF IMPROPER DRAINAGE WITH SAME SIZE AND SPECIES AT NO ADDITIONAL COST TO OWNER.
10. ALL PLANT MATERIALS SHALL BE PLANTED IN A PROFESSIONAL MANNER TYPICAL TO THE INDUSTRY STANDARDS OF THE AREA TO ASSURE COMPLETE SURVIVABILITY OF ALL INSTALLED PLANT MATERIALS AS WELL AS TO PROVIDE AN AESTHETICALLY APPROVED PROJECT. CONTRACTOR SHALL REFER TO THE PLANTING DETAILS FOR MINIMUM SIZE AND WIDTH OF PLANTING PITS AND BEDS, GUYING AND STAKING, MULCHING, AND OTHER PLANTING REQUIREMENTS.
11. ALL PLANTING AREAS SHALL BE WEED FREE PRIOR TO PLANTING INSTALLATION.
12. REMOVE ALL PLANTING AND LANDSCAPE DEBRIS FROM THE PROJECT SITE AND SWEEP AND WASH CLEAN ALL PAVED AND FINISHED SURFACES AFFECTED BY THE LANDSCAPE INSTALLATION.

LEGEND - PLANTING PLAN

	GROUNDCOVER, REFER SCHEDULE FOR PLANTS		EXISTING TRANSPLANTED SHADE TREE (BY OWNER)		EXISTING TREE TO REMAIN, PROTECT IN PLACE
	PERENNIALS + ANNUALS, BY OWNER		DECIDUOUS SHADE TREE		MULTISTEM TREE OR ORNAMENTAL TREE
	BIO-SWALE PLANT MIX, REFER SCHEDULE FOR PLANTS		SHRUB PLANTING TYP.		
	SODDED TURF				
	NO-MOW TURF MIX				
	MULCHED WOODLINE WITH EXISTING VEGETATION ONLY				
	OHIO NATIVE PRAIRIE SEED MIX 6"-24" HEIGHT - WET TO DRY TOLERANT				
	QUANTITIES				
	SPECIES				

CODED NOTES - PLANTING PLAN

- 1 EXISTING TREE & PLANTING AREA TO REMAIN, PROTECT IN PLACE
- 2 POTTED PLANTERS, PLANTINGS AND PLANTER BY OWNER
- 3 FIELD VERIFY LAYOUT OF PROPOSED TREE(S)/PLANTINGS WITH LANDSCAPE ARCHITECT UPON TIME OF CONSTRUCTION
- 4 4' DIA. MULCH RING AROUND TREE, TYP.

PLANTING PLAN - NORTH
Scale: 1/16" = 1'-0"

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ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER
FOR:
KEN AND JOYCE KURYLA
1840 GEORGETOWN ROAD
HUDSON, OH 44236

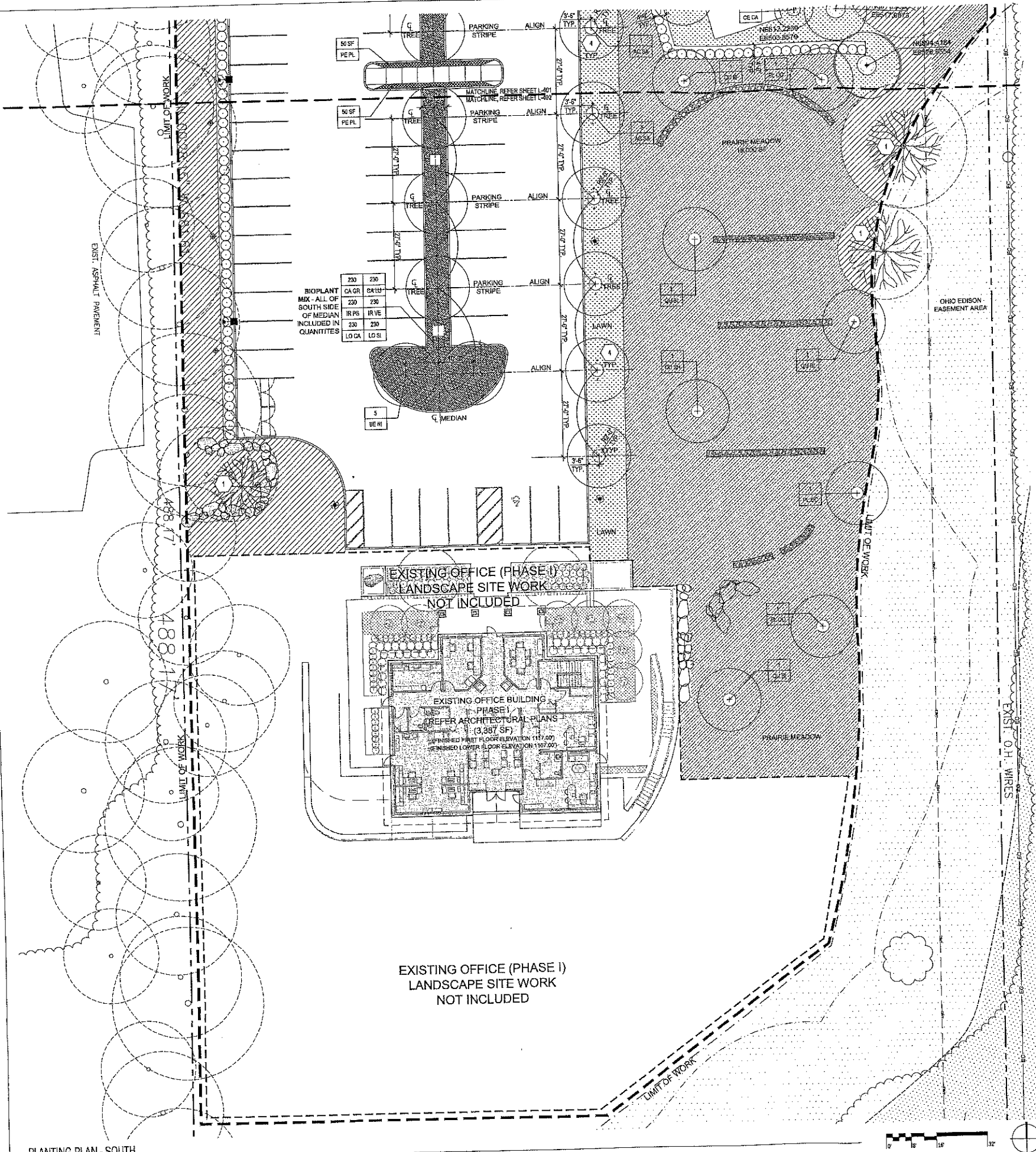
BID SET
CONSTRUCTION
DOCUMENTS

REVISIONS

PROJECT: h14001
DATE: 09/13/2016
DRAWN: DLK
CHECKED: DLK-XGR

CITY OF HUDSON
APPROVED: *Mark Belcher*
DATE: 10/11/16

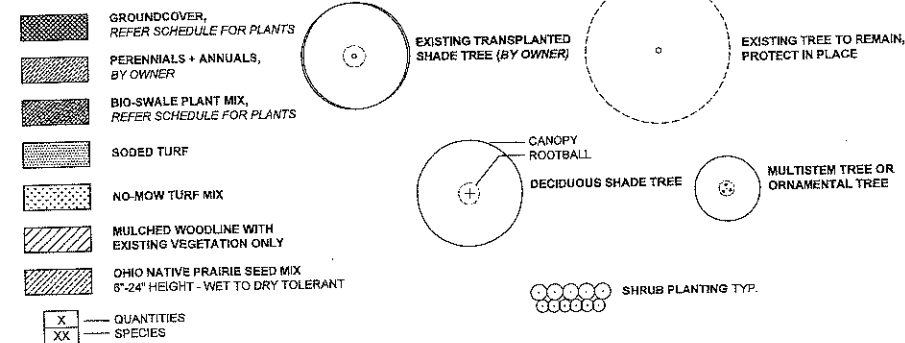
SHEET: PLANTING PLAN - NORTH
L-401



GENERAL NOTES - PLANTING PLAN

1. STAKE ALL TREE LOCATIONS FOR REVIEW PRIOR TO INSTALLATION. ALL PLANTING PROCEDURES ARE SUBJECT TO THE REVIEW OF THE OWNER AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES FOUND AT NO ADDITIONAL COST TO THE OWNER.
2. SECURE PLANT MATERIAL AS SPECIFIED ON PLANS. IN THE EVENT THAT PLANT MATERIALS SPECIFIED ARE NOT AVAILABLE, CONTACT OWNER FOR APPROVED SUBSTITUTIONS. NO SUBSTITUTIONS FOR PLANT MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL.
3. VERIFY THAT ALL PLANTING PRODUCTS, PLANT MATERIAL, AND PLANT QUANTITIES DELIVERED TO THE SITE MATCH WHAT IS INDICATED ON THE PLANS AND SPECIFICATIONS.
4. PROTECT ALL PLANT MATERIAL DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALLS, TRUNKS, BRANCHES AND THE DESICCATION OF LEAVES. PROTECT ALL PLANT MATERIAL DURING SHIPPING WITH SHADE CLOTH OR SHIP WITH ENCLOSED TRANSPORT. MAINTAIN PROTECTIONS AND HEALTH OF PLANT MATERIAL STORED ON SITE. HANDLE ALL TREES WITH NYLON STRAPS. NO CHAINS OR CABLES WILL BE ALLOWED. REMOVE UNACCEPTABLE PLANT MATERIAL IMMEDIATELY FROM THE SITE.
5. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, WELL FORMED, TRUE TO SPECIES, HARDENED OFF WITH VIGOROUS ROOT SYSTEMS, FULL CROWN AND CANOPIES, AND FREE FROM DISEASE, PESTS AND INSECTS, AND DEFECTS SUCH AS KNOTS, SUN SCALD, WINDBURN, LEAF DIS-COLORATION, IRREGULAR BRANCHING OR INJURIES.
6. ALL ROOT BALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN "AMERICAN STANDARDS FOR NURSERY STOCK".
7. ALL PLANT MATERIAL DELIVERED TO THE SITE IS SUBJECT TO THE REVIEW OF THE OWNER BEFORE, DURING AND AFTER INSTALLATION.
8. PROVIDE PLANT SAMPLES OR PHOTOGRAPHS OF EACH PLANT SPECIFIED TO THE LANDSCAPE ARCHITECT FOR COMPLIANCE REVIEW PRIOR TO INSTALLATION.
9. TEST FILL ALL TREE AND PLANTING PITS WITH WATER, PRIOR TO PLANTING, TO ASSURE PROPER SOIL PERCOLATION. PITS WHICH DO NOT ADEQUATELY DRAIN SHALL BE FURTHER EXCAVATED TO A DEPTH SUFFICIENT FOR DRAINAGE TO OCCUR AND/OR BACKFILLED WITH SUITABLE DRAINAGE GRAVEL. NO ALLOWANCES SHALL BE MADE FOR PLANT MATERIAL LOSS DUE TO IMPROPER DRAINAGE. CONTRACTOR SHALL REPLACE DEAD OR DAMAGED PLANT MATERIAL AS A RESULT OF IMPROPER DRAINAGE WITH SAME SIZE AND SPECIES AT NO ADDITIONAL COST TO OWNER.
10. ALL PLANT MATERIALS SHALL BE PLANTED IN A PROFESSIONAL MANNER TYPICAL TO THE INDUSTRY STANDARDS OF THE AREA TO ASSURE COMPLETE SURVIVABILITY OF ALL INSTALLED PLANT MATERIALS AS WELL AS TO PROVIDE AN AESTHETICALLY APPROVED PROJECT. CONTRACTOR SHALL REFER TO THE PLANTING DETAILS FOR MINIMUM SIZE AND WIDTH OF PLANTING PITS AND BEDS, GUYING AND STAKING, MULCHING, AND OTHER PLANTING REQUIREMENTS.
11. ALL PLANTING AREAS SHALL BE WEED FREE PRIOR TO PLANTING INSTALLATION.
12. REMOVE ALL PLANTING AND LANDSCAPE DEBRIS FROM THE PROJECT SITE AND SWEEP AND WASH CLEAN ALL PAVED AND FINISHED SURFACES AFFECTED BY THE LANDSCAPE INSTALLATION.

LEGEND - PLANTING PLAN



CODED NOTES - PLANTING PLAN

1. EXISTING TREE & PLANTING AREA TO REMAIN, PROTECT IN PLACE
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ADDITIONS AND ALTERATIONS TO:
HIGHFIELDS EVENT CENTER

FOR:
KEN AND JOYCE KURYLA
1940 GEORGETOWN ROAD
HUDSON, OH 44126

BID SET
CONSTRUCTION
DOCUMENTS

REVISIONS

PROJECT: n14001
DATE: 06/13/2016
DRAWN: DLK
CHECKED: DLK-KGK

CITY OF HUDSON
2016 JAN 5
Mark R. R. 2016

SHEET
PLANTING PLAN -
SOUTH

L-402

PLANTING PLAN - SOUTH

Scale: 1/16" = 1'-0"