

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

DATE: July 7, 2016

TO: City of Hudson Planning Commission for July 11, 2016 Meeting

FROM: Greg Hannan, City Planner

Mark Richardson, Community Development Director

SUBJECT: Site Plan Review for 750 West Streetsboro Street - Parking Expansion for

Christ Community Chapel

ZONING: District 1 – Rural Residential Conservation

PC Case No: 2016-15

#### **Project Introduction**

Application has been received for a proposed parking expansion for Christ Community Chapel. The proposed project includes installation of 114 parking spaces to the southwest of the facility.

The subject property is adjacent to commercial/industrial development within District 6 to the north and west. Single family residential development within District 1 is abutting to the east and south, approximately 200 feet from the project area.

The following information is attached to this report.

- 1. Preliminary comment letter from Greg Hannan, City Planner, dated June 16, 2016 based on the May 31, 2016 submittal.
- 2. Preliminary comment letter from Thom Sheridan, City Engineer, dated June 23, 2016 based on the May 31, 2016 submittal.
- 3. Planning Commission Decision for case No 2006-03 dated April 10, 2006.
- 4. Site plan submittal from Thorson Baker Associates, Inc. received June 29, 2016.

## **Applicable Zoning District Standards, Section 1205**

Staff compared the proposal to zoning district standards and found the proposal to be in compliance with applicable standards. We note the following:

The proposed siting of the parking lot to the rear of the structure and the 200+foot setback from Terex Road and adjacent residential development are acceptable.

#### **Chapter 1206 – Use Standards**

The existing place of religious worship is permitted as a conditional use within District One. Because no new land is being added to the church a new conditional use is not necessary. Staff

notes the proposed parking is in compliance with the following general criteria and standards applicable to conditional uses per Section 1206.02(b).

- (1) The use is consistent with the policies and intent of the City of Hudson Comprehensive Plan.
- (2) The use is physically and operationally compatible with the surrounding neighborhood and surrounding existing uses.
- (3) The use can generally be accommodated on the site consistent with any architectural and design standards set forth in the applicable district regulations of this Code.
- (4) Access points to the property are located as far as possible from road intersections and adequate sight distances are maintained.
- (5) On-site and off-site traffic circulation patterns shall not adversely impact adjacent uses or result in hazardous conditions.
- (6) The use will be adequately served by public facilities and services
- (7) The use provides adequate off-street parking on the same property as the use.
- (8) The use will be screened with fencing and/or landscaping in excess of what is required in Section 1207.04 of this Code if the use may otherwise result in an adverse impact on adjacent property benefiting from such screening.
- (9) The residential use is proposed at a density consistent with that of the existing neighborhood density.

## Applicable Zoning Development and Site Plan Standards, Section 1207

Staff compared the proposal to zoning development and site plan standards. We comment on the following:

## Wetland/Stream Corridor Protection:

A variance was granted in 2006 per BZBA Case No. 2006-02 to fill two small wetland areas on the property as part of a previous parking expansion. The development area is setback approximately 90 feet from the nearest residual wetlands identified in 2006.

#### Landscaping

Bufferyard D (25 feet) is applicable to the adjacent residential development to the south and east. The plans appropriately propose the planting of Norway spruce trees in addition to preservation of existing vegetation. The proposed 114 space parking expansion is required to provide at least 1,824 square feet of interior landscaping. The plans proposed adequate interior planting areas; however, shade trees must be incorporated within the landscaping island adjacent to the storage shed.

<u>Parking</u>: The site was previously before the Planning Commission for a parking expansion in 2006 per case 2006-003 (decision attached). Parking supply and demand was studied extensively at that time. The project initially presented to the BZBA per docket 2006-02 proposed an increase in parking supply to a total of 923 spaces; however, was revised to a total of 760 spaces as part of the Planning Commission approval. The PC approval at that time included a condition that the applicant may apply for future parking expansions, but that total number of parking spaces may not exceed a total of 923 on-site spaces as presented to the BZBA. The proposed expansion of 114 spaces establishes a facility total of 871 spaces.

<u>Engineering</u>: City Engineer Thom Sheridan has completed a preliminary review. Mr. Sheridan has requested additional information related to the proposed disturbed area and documentation related to the existing stormwater management basin's capacity to accommodate the additional impervious surface.

#### **Findings:**

The staff finds that the application is in substantial compliance with the use, zoning development site plan, and other governmental regulations, and land disturbance and grading review contained in Section 1204.04.

## Required PC Action, Chapter 1203.09(g)(3)

The PC shall consider the development application, the staff report, and then take final action. PC shall approve, approve with conditions, or deny the application based on its compliance with the appropriate review standards. All decisions of the Commission shall be based on findings of fact related to the relevant standards of the Code.

#### **Recommendation**

Approve the site plan in Case 2016-15 for expansion of the parking at 750 West Streetsboro Street for Christ Community Chapel according to plans received June 29, 2016 with the following conditions:

- 1. Incorporate shade trees within the landscaping island adjacent to the storage shed.
- 2. The comments of City Engineer Thom Sheridan must be addressed per the June 23, 2016 correspondence.
- 3. The applicant shall install silt fencing and/or polypropylene fencing to mark and protect the approved clearing limits, which shall be maintained by the applicant.
- 4. Satisfaction of the above conditions prior to scheduling of a preconstruction meeting with City Officials and no clearing or construction of any kind shall commence prior to the issuance of a Zoning Certificate.



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

June 16, 2016

Richard Schuping Christ Community Chapel

RE: PC 2016-15 - Site Plan review for Hudson Community Chapel

Mr. Schuping:

Thank you for your submission of the site plan application for the parking lot expansion proposed for Christ Community Chapel at 750 West Streetsboro Street. The application has been scheduled for the Planning Commission (PC) agenda for the July 11, 2016 meeting. In preparation for such, I am forwarding preliminary comments related to compliance with the Land Development Code (LDC). Our goal is to provide you an opportunity to respond to the below comments by June 29, 2016. We will revise the comments accordingly for the staff report scheduled to be issued on July 6, 2016. Additionally I am available to meet and review the comments at your convenience.

## Chapter 1205 - District Regulations

#### 1205.04 District 1: Rural Residential Conservation

The proposed siting of the parking lot to the rear of the structure and 200+foot setback from Terex Road are acceptable.

## Chapter 1206 - Use Standards

The existing place of religious worship is permitted as a conditional use within District One. Because no new land is being added to the church a new conditional use is not necessary. Staff notes the proposed parking is in compliance with the applicable conditional use standards.

## Section 1207 Zoning Development and Site Plan Standards

## Section 1207.03 Wetlands

A variance was granted in 2006 per BZBA Case No. 2006-02 to fill two small wetland areas on the property as part of a previous parking expansion. The delineation submitted at that time did not depict any wetlands within the proposed project area; however, two minor wetland areas were present south of the project area. An updated wetland delineation must be submitted for the project area or documentation submitted from Floyd Brown Group indicating the previously delineated areas have not changed.

Section 1207.04 Landscaping/Buffering

Bufferyard D (25 feet) is applicable to the adjacent residential development to the south and east. The proposed development area is located on the interior of the site, at least 200 feet from adjacent development. Preservation of the existing vegetation along with the proposed plantings comply with the applicable bufferyard requirements. The plans must be revised to clearly indicate the proposed limits of disturbance. The proposed 114 space parking expansion is required to provide at least 1,824 sq ft of interior landscaping. The required islands can be accommodated by the two islands at the east of the parking lot (1,060 sq ft total) and incorporation of plantings adjacent to the shed. The islands must also accommodate shade trees and plantings/ground covers.

Section 1207.07 Stormwater Management/Drainage/Erosion

Stormwater management will be reviewed by the Engineering Department. Staff understands the existing stormwater detention basins on the property were designed to accommodate the proposed increase in impervious surface.

Section 1207.12 Off-Street Parking and Loading Requirements

The site was previously before the Planning Commission for a parking expansion in 2006 per case 2006-003. Parking supply and demand was studied extensively at that time. The project initially proposed to BZBA per docket 2006-02 proposed an increase in parking supply to a total of 923 spaces; however, was revised to a total of 799 spaces as part of the Planning Commission approval. Part of the PC approval included a condition that the applicant may apply for future parking expansions not exceed a total of 923 on-site spaces as presented to the BZBA. Additional information is needed regarding the current and proposed parking counts for the facility to confirm compliance with the maximum count of 923 stated in the previous Planning Commission decision.

#### City Arborist Comments

Below are comments received from Public Works Superintendent-City Arborist Tom Munn:

- 1. HPP electric underground lines serve the existing shed. Project should provide new wiring conduit and routing. Hudson Public Power has provided the attached mark up noting the location of existing underground electrical.
- 2. Water service line to existing shed will need to be moved / protected.

#### **Additional Comments:**

 An overall view of the site must be added to the plans to depict the project area in relation to the full site and the setback from adjacent property lines.

#### Summary

Please address the following with a revised submittal by June 29, 2016:

 Submit an updated wetland delineation for the project area or documentation from Floyd Brown Group that the previously delineated areas have not changed. Additionally the wetland areas south of the parking improvements from the 2005 delineation must be added to the plans. Revise the landscape plan to incorporate interior island plantings adjacent to the shed. All interior landscaping areas must be revised to incorporate shade trees and plantings/ground covers.

3. Indicate the existing and proposed parking count for the facility.

4. Incorporate an overall view of the site must be added to the plans to depict the project area in relation to the full site and the setback of the from adjacent property lines.

Please contact me for any assistance I can provide.

Sincerely,

Gregory P. Hannan, AICP

JOST PHames

City Planner

CC: Mark Richardson, Community Development Director

Thom Sheridan, City Engineer

**Existing Parking Lot** Existing Shed Parking Lot Expansion Proposed EXISTING UNDERGROUND SECONDARY ELECTRIC NEEDS TO BE LOCATED AND MARKED, secondary underground **Electrical Distribution** CHRIST COMMUNITY CHAPEL PARKING LOT EXPANSION 15 60 Feet Drawn by: Bee Hudson Public Power 6/13/16 All data on this map were created for the City of Hudson to assist City Departments in management and planning activities. The suitability of this map for any other use is not guranteed and the user assumes all risk for such uses. The City of Hudson, Ohio, assumes no legal responsibility for the information on this map. Users noting errors or ommissions are encouraged to contact the City of Hudson Geographic Information Services at 330-342-1363. ENGINEERING • 115 Executive Parkway, Suite 400 • Hudson, Ohio 44236 • (330) 342-1770

Date: June 23, 2016

To: Greg Hannan, City Planner, Community Development

From: Thomas J. Sheridan, P.E., P.S., City Engineer

Re: Christ Community Chapel – Parking Lot Expansion

The City of Hudson Engineering Department has reviewed the plans submitted May 31, 2016. Note: The City of Hudson Engineering Standards (Engineering Standards) and Land Development Code (LDC) are available online at the City of Hudson Website <a href="www.hudson.oh.us">www.hudson.oh.us</a> under the Engineering Dept. and Community Development Department respectively. The standards are also available in print for a fee. Please contact our office (330-342-1770) if you would like a cost for the printed version.

The City of Hudson Engineering Department has the following review comments that shall be addressed and any necessary revisions resubmitted:

- Provide the total area of disturbance for this site and show on the grading plan a 'line' for the limits in order for our inspector during construction. This includes any stockpiled material or other areas disturbed during construction around the perimeter of the proposed parking area. A submittal to Summit Soil and Water and Notice of Intent to the OEPA may be necessary if the site exceeds 1 acre.
- 2. Will any material be stockpiled on site or will it be removed and hauled to another offsite location? If it is stockpiled on site (temp. or perm.) please include the grading lines for our review and comment on the plan. If it is removed, the location (address) of the site shall be provided to the City Inspector and all proper sediment control shall be used at the offsite fill site per the County requirements in which the fill site is located.
- Note, based on item #1 and if a SWPPP needs to be submitted for this site, a minimum of silt fence and inlet protection shall be properly shown with details on installation for this site.
- 4. Provide the necessary documentation to the City detailing the existing storm water management on this site and water quality features (if needed) are sized for this proposed impervious area for our review. A letter summarizing this information and any documentation by an Ohio Professional Engineer (Signed and Stamped) will be required. If this area was not included, a detailed storm water management report will be required per the City of Hudson Storm Water Management Section 5 of the Engineering Standards.
- A Hudson GIS Map (Available on our website) was provided to George Roth detailing an existing waterline and existing electric line that will most likely be impacted with the construction of this site and shall be shown. Please contact OUPS for a proper mark-out of the site.

If you have any questions, please contact our office.

Sincerely,

Thomas J. Sheridan, P.E., P.S. Hudson City Engineer

T. Calabro File. C:

## CITY OF HUDSON PLANNING COMMISSION

CASE NO. 2006-003 HUDSON COMMUNITY CHAPEL 750 WEST STREETSBORO STREET SITE PLAN

#### **DECISION**

Based on the evidence and representation to the Commission by Jack Baumann, Braun & Steidl Architects, 1041 West Market Street, Akron, Ohio, as applicant, and Hudson Community Chapel, 750 West Streetsboro Street, Hudson, Ohio, as property owner; affected property owners, consultants, City staff and other interested parties, at a Special Meeting on February 27, 2006 and at a Regular Meeting of April 10, 2006, of the Planning Commission held at Town Hall, 27 East Main Street, Hudson, the Commission hereby approves the Conditional Use and Site Plan applications for Case No. 2006-003 for a parking lot expansion at Hudson Community Chapel, 750 West Streetsboro Street, according to plans dated March 22, 2006 provided the following conditions are addressed:

1. Plans must be revised to show the following:

a. Plans must be marked so that all references to "Phase II" or "Future Parking" are noted as not being approved and such plans be signed by an authorized representative of the applicant.

b. Landscape plans must be revised to address any comments not addressed in a letter from John Vittum, City landscape consultant, dated February 13, 2006. A letter of credit in an amount of 110% of the cost of completing the landscaping is to be provided prior to release of the Zoning Certificate.

c. Plans must be revised to address any comments not addressed in a letter from Charles A. Hauber, City engineering consultant, dated February 15, 2006. Plans need not show curbing along the south boundary of the parking area.

d. Plans must be revised to address Summit Soil and Water Conservation District's letter dated February 10, 2006.

e. Incorporate by reference the new parking calculations amended on page C-101 to be 25, 139, 12, 164, and 618 (770 in total) respectively, as changed and corrected at the meeting, and this sheet should be signed by a representative of the applicant.

2. The applicant may apply in the future for additional parking up to 923 spaces, the amount of parking on site plans presented to the Board of Zoning and Building Appeals ("BZBA") during its deliberations without implying any promise additional parking would be approved in the future.

3. All conditions of the BZBA decision dated February 17, 2006 must be honored except any requirements for curbing.

4. A permit from the US Army Corps of Engineers to fill wetland must be submitted.

5. Satisfaction of the above conditions prior to the scheduling of a preconstruction meeting with City officials and no clearing, grading or construction of any kind shall commence prior to the issuance of a Zoning Certificate.

6. Before scheduling a preconstruction meeting, the applicant shall install silt fencing and/or polypropylene fencing to mark and protect approved clearing limits, which shall be maintained by the applicant.

Dated: April 10, 2006

CITY OF HUDSON
PLANNING COMMISSION

NTHIA CURTIN, CHAIR

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# CHRIST COMMUNITY CHAPEL PARKING LOT EXPANSION

JUNE, 2016 HUDSON, OHIO

#### DRAWINGS INDEX:

C000 - COVER SHEET

C401 - SWPP TITLE SHEET

C100 - GENERAL PLAN

C402 - SWPP SITE PLAN

C101 - SITE PREPARATION PLAN

C403 - SWPP GENERAL NOTES

C201 - GEOMETRIC PLAN

C301 - GRADING/UTILITY PLAN

C404 - SWPP NOTES & DETAILS

C404

C405 - SWPP NOTES & DETAILS

## AREA CALCULATIONS:

EXISTING IMPERVIOUS AREA: 0.11 AC

PROPOSED IMPERVIOUS AREA: 0.87 AC

# CITY OF HUDSON GENERAL 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.

VICINITY MAP

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED FOR THE PROJECT.
- 3. THE CONTRACTOR MUST ALERT THE OHIO UTILITY PROTECTION SERVICES AT 1-800-362-2764 AT LEAST 48 HOURS BEFORE ANY EXCAVATION IS TO BEGIN.

  4. 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.
- 6. 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.
- B. NOTIFY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF FORTY-EIGHT 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 6 APPROVED SETS OF PLANS AND ALL SHOP DRAWINGS APPLICABLE TO THE PROPOSED MPROVEMENTS. A PRECONSTRUCTION MEETING MUST BE HELD PRIOR TO START OF ANY
- 10. THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED AND LINED WITH ORANGE CONSTRUCTION FENCING 46 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.
- 11. 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.
- 12. 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 RAILING, MAIL AND/OR PAPER BOXES, DRIVE GULVERTS, 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.
- 20. 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.
- 21. 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 MATTING AS PER ODOT 667 OR 668.
- 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.
- 4. 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.
- 25. 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 38, CONTRACTOR.
- 27. ALL DELIVERED MATERIALS SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF HUDSON OR OTHER APPLICABLE AGENCIES. THE CITY OF HUDSON, OR 19. 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 MONCONFORMANCE OF PLANS, SPECIFICATIONS AND OTHER APPLICABLE STANDARDS OR REGULATIONS.
- 29. ALL CHANGES TO APPROVED DRAWINGS AND/OR SPECIFICATIONS MUST BE REAPPROVED BY THE CITY OF HUDSON PRIOR TO CONSTRUCTION.
- 30. ALL PAVING 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.
- 33. 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.
- 54. 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 FLITURE 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 SANTARY 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 COME! VIMIT OF DOES BEDUILIESHENTS.

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 8. 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) FRIOR TO SCHEDULING A PRECONSTRUCTION MEETING.



COVER SHEET

2 WORKING DAYS

BEFORE YOU DIG COMMON TOLL FREE: 800—362—2764
OHIO UTILITIES PROTECTION SERVICE

CHRIST COMMUNITY CHAPE!

CHRIST COMMUNITY CHAPE!

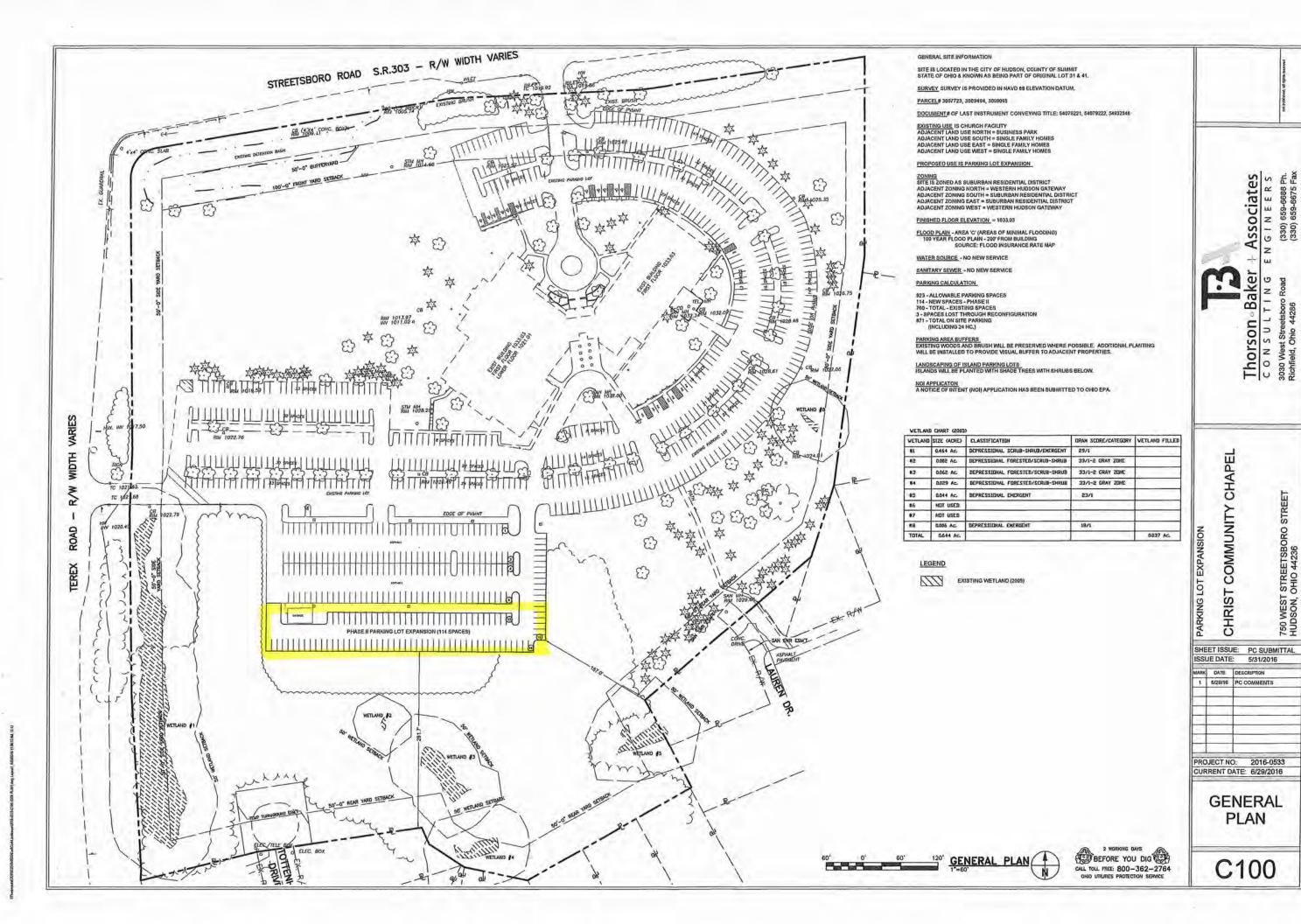
THUDSON, OHIO 44236

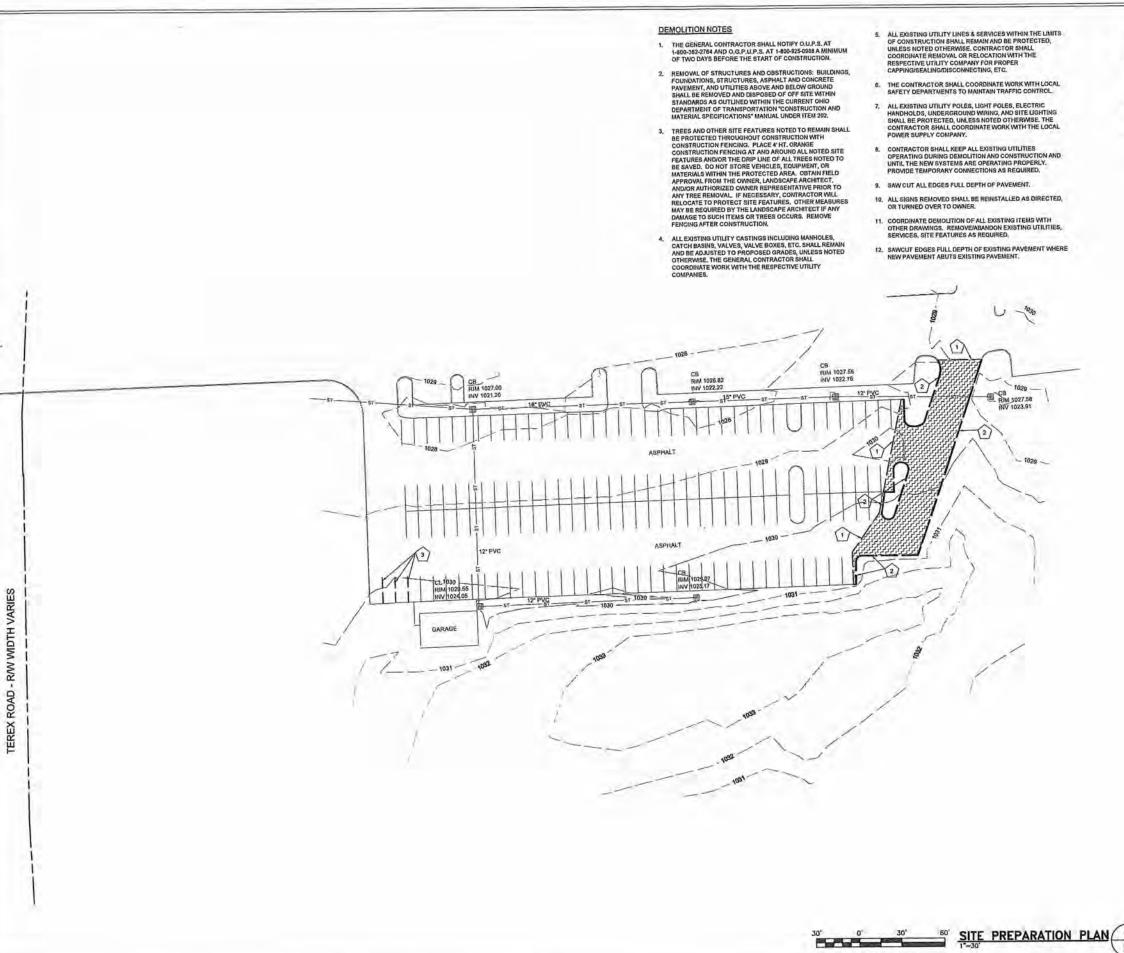
Associates
N G I N E E R S
(330) 659-6678 Ph.
(330) 659-6675 Fax

Baker

Thorson

FOX	DATE	DESCRIPTION
	6/29/16	PC COMMENTS
	JECT N	
JR	RENT D	ATE: 6/29/2016
	C	OVER





LEGEND

ASPHALT & BASE TO BE REMOVED

KEY NOTES

0 2 REMOVE CONCRETE CURB

3 REMOVE STRIPING

Associates
N G I N E E R S
(330) 659-6688 Ph.
(330) 659-6675 Fax Z

Thorson Baker consultant Baker consultant Baker 3030 West Streetsboro Road Richfield, Ohio 44286

750 WEST STREETSBORO STREET HUDSON, OHIO 44236

CHRIST COMMUNITY PARKING LOT EXPANSION SHEET ISSUE: PC SUBMITTAL ISSUE DATE: 5/31/2016

CHAPEL

RK DATE DESCRIPTION

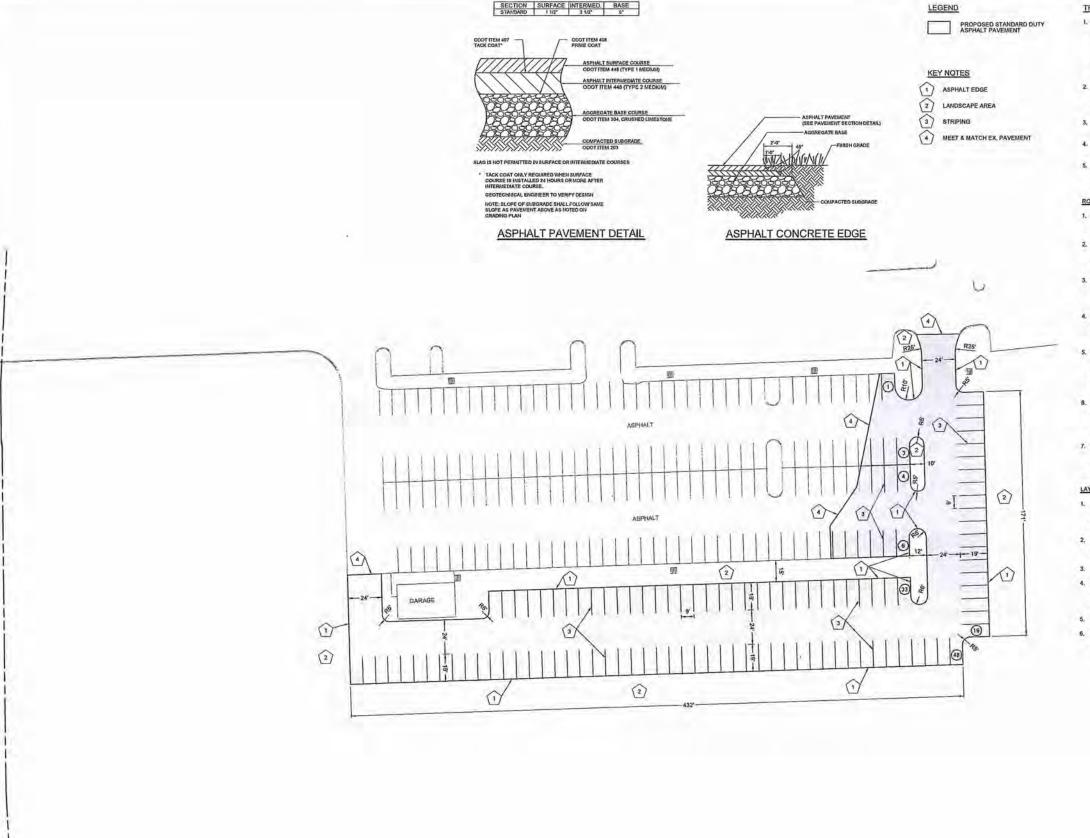
PROJECT NO: 2016-0533 CURRENT DATE: 6/29/2016

SITE PREPARATION PLAN

C101

30' 0' 30' 50' SITE PREPARATION PLAN

2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE: 800-362-2764
OHIO UTILITIES PROTECTION SERVICE



TEREX ROAD - RAW WIDTH VARIES

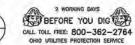
- 1. PAVEMENT DESIGN PROVIDED IN GEOTECHNICAL REPORT

- TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" MANUAL UNDER ITEMS 203 AND 204

- 1. CONTRACTOR IS OBLIGATED TO VERIFY ALL DIMENSIONS ON THE GROUND AND REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- 3. ± INDICATES APPROXIMATE DIMENSIONS
- DO NOT SCALE FROM THIS DRAWING, ALL WRITTEN DIMENSIONS SHALL GOVERN. ALL ANGLES ARE 90° UNLESS OTHERWISE NOTED. DIMENSIONS ARE TO FACE OF CURB ANDIOR TO FACE OF BUILDING.
- 5. SEE GRADING PLAN FOR SOIL BORING LOCATIONS.







#### TRAFFIC CONTROL NOTES

- 1 ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (PART 7 CONSTRUCTION AND MAINTENANCE OPERATIONS). COPIES ARE AVAILABLE FROM THE ODOT, BUREAU OF TRAFFIC, 25 SOUTH FRONT STREET, COLUMBUS, ONIO 43215.
- STEADY-BURNING, TYPE 'C," LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC DEVICES IN USEA THIGHT. COMES ARE NOT PERMITTED TO BE USED FOR NIGHT WORK.
- ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MAIL SERVICE IN THE CONSTRUCTION AREA.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY BARRICADE THE STREET IN THE VICINITY OF THE WORK AREAS UNTIL SUCH TIME AS THE STREET IS OPEN TO TRAFFIC.

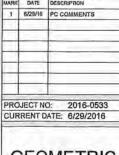
#### ROADWAY AND PAVEMENT NOTES

- PREPARED BY SUMMIT TESTING & INSPECTION COMPANY DATED DECEMBER 16, 2005 .
- WHEN OPEN-CUTTING OF EXISTING PAVEMENT IS PERMITTED, CONTROLLED DENSITY BACKFILL MAY BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL ASPHALT SURFACES SHALL BE HEAT WELDED.
- WHERE IT IS NECESSARY TO DISTURB EXISTING PAVEMENTS, THE PAVEMENT SHALL BE SAW CUT IN NEAT, STRAIGHT LINES, THE DEPTH OF THE SAWCUT SHALL BE FULL DEPTH OF PAVEMENT.
- 4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN THE VICINITY OF EXISTING TREES TO BE PRESERVED, TAKING ALL PRACTICAL MEASURES TO PROTECT AND PRESERVE THEM.
- 5. ALL EARTHWORK CONSTRUCTION METHODS AND MATERIALS FOR EXCAVATION, EMBANKMENT, SUBGRADE COMPACTION, AND PROOF ROLLING SHALL FOLLOW AND MEET THE CURRENT OHIO DEPARTMENT OF
- B. ALL PAVING OPERATIONS AND MATERIALS SHALL CONFORM TO AND MEET THE REQUIREMENTS AS OUTLINED WITHIN THE CURRENT OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" MANUAL.
- 7. ALL ROAD SURFACES, BERMS, LAWN AREAS OR RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO THE PRE-CONSTRUCTION CONDITION OR

#### LAYOUT/GEOMETRY NOTES

- PRECISE LAYOUT SHALL BE DETERMINED ON THE GROUND AND APPROVED BY THE OWNER'S REPRESENTATIVE.

- ALL PROPERTY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE RESET AT THE CORRECT LOCATION.



SHEET ISSUE: PC SUBMITTAL

ISSUE DATE: 5/31/2016

COMMUNITY CHAPEL

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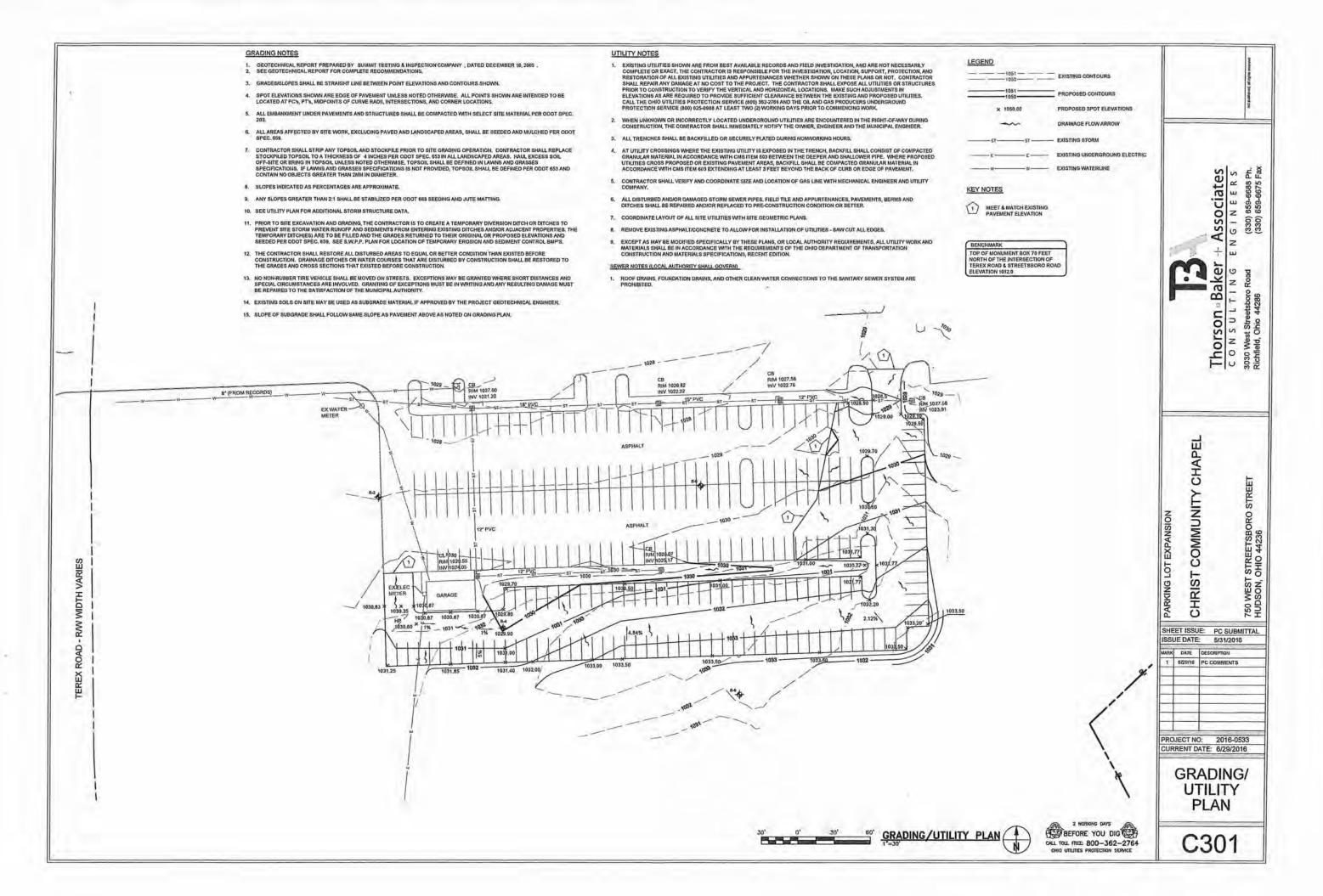
Thorson Baker
CONSULTING
3030 West Streetsboro Road
Richfield, Ohio 44286

STREET

OHIO 44236

750 WEST (

GEOMETRIC PLAN



# SITE LOCATION w streetsbu thin traithead Christ Community Chapel - Mudson Campu anity Blud

SWP9 STATEMENT:
THIS SWP9 I JAN IWAS DEVELOPED TO CONTROL EROSION AND SEDIMENT PRIOR TO EXITING THE SITE. SEDIMENT WILL BE CONTROLLED WITH SILT FENCE AND INLET PROTECTION. SILT FENCE SHOULD BE PLACED AT THE BOTTOM OF THE SLOPES THAT WILL NOT BE TREATED WITHIN THE BORN. SEE THE IMPLEMENTATION SCHEDULE A SEQUENCE MAJOR CONSTRUCTION OPERATION ON SHEET CASS. THE SCHEDULE SHOULD BE FOLLOWED TO MAINTAIN PROPER CONTROL OF EROSION AND SEDIMENT ON SITE, ALL DISTURBED AREAS WHERE CONSTRUCTION WILL CEASE FOR MORE THAN 14 DAYS MUST BE STABILIZED. SEEDING AND MULCHING SHOULD BE CONSISTENT WITH THE SOIL STABILIZATION REQUIREMENTS SECTION LOCATED ON SHEET C403 & C404. SLOPES 3:1 OR GREATER REQUIRE EROSION CONTRO

VICINITY MAP

START DATE: START DATE: AUGUST, 2016 COMPLETION DATE: AUGUST, 2017

GENERAL NOTES:
FOR REVISIONS/AMENDMENTS TO THE SWP3, CONTACT DAVID L. MYERS AT THORSON BAKER & ASSOCIATES AT

INSPECTION AND MODIFICATION REQUIREMENTS.
A LOG DOCUMENTING GRADING AND STABILIZATION ACTIVITIES AS WELL AS AMENDMENTS TO THIS SWP3

A LOG OF SITE INSPECTION NEEDS TO BE KEPT, INSPECTIONS SHALL BE PERFORMED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER A STORM EVENT GREATER THAN 1/2 INCH OF RAINFALL WITHIN A 24-HOUR DURATION, ALL MEASURES SHALL BE OBSERVED TO ENSURE CORRECT OPERATION, REPAIRS TO ANY DAMAGED DEVICE/STRUCTURE SHALL BE COMPLETED WITHIN 3 DAYS OF THE INSPECTION. PLANS ARE AVAILABLE ON-SITE.

PRE-CONSTRUCTION MEETING REQUIREMENT

A PRE-CONSTRUCTION MEETING IS REQUIRED BETWEEN THE DEVELOPER, CONTRACTOR AND JURISDICTIONAL AGENCY PRIOR TO THE BEGINNING OF ANY CONSTRUCTION ACTIVITY ON SITE. CONTACT JURISDICTIONAL AGENCY AT LEAST SEVEN DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AT TO SCHEDULE THE

 DAVID L MYERS	REG. NO. 70398
SHALL BE RESPONSIBLE FOR IMPLEM RES DURING THE BEQUENCE OF CON-	ENTATION & MAINTENANCE OF SEDIMENT

# CHRIST COMMUNITY CHAPEL STORM WATER POLLUTION PREVENTION PLAN

# JUNE, 2016 HUDSON OHIO

PART III.G.1 - SITE DESCRIPTION	(c) RUNOFF CONTROL PRACTICES
(a) DESCRIPTION OF THE NATURE AND TYPE OF CONSTRUCTION ACTIVITY	MEASURES TO REDUCE FLOW RATES
PARKING LOT CONSTRUCTION	SEE SWP3 PLAN
(b) TOTAL AREA OF EXPECTED SITE DISTURBANCE, INCLUDING OFF SITE ARE  1,42 ACRES (ON-SITE)	I. CONCENTRATED FLOW(S) TO A SEDIMENT BASIN
0 ACRES (OFF-SITE) (c) RUNOFF COEFFICIENTS (PRE & POST)	SEE SWP3 PLAN  II. DIVERSION OF CLEAN WATER AROUND SITE
	SEE SWP3 PLAN
(d) IMPERVIOUS AREA AND % OF SITE PRE CONSTRUCTION	III. STEEP SLOPE PROTECTION SEE SWP3 PLAN
0.11 ACRES 6 %	(d) SEDIMENT CONTROL PRACTICES
IMPERVIOUS AREA AND % OF SITE POST CONSTRUCTION	<ol> <li>SEDIMENT CONTROL DEVICES IMPLEMENTATION OF ALL AREAS</li> </ol>
0.87 ACRES 61 %	SEE 5WP3 PLAN  2. DETAIL DRAWINGS OF SEDIMENT CONTROL DEVICES
CcB - CANEADEA SILT LOAM	DETAILS PROVIDED - SEE PLAN
GbC2 - GEEBURG SILT LOAM	(dXi) TIMING
W/B - WHEELING SILT LOAM PRIOR LAND USE OF SITE	<ol> <li>SEDIMENT CONTROL INSTALLATION AND IMPLEMENTATION SCHEDULE SEE IMPLEMENTATION SCHEDULE IN THE FOLLOWING SHEET(S)</li> </ol>
VACANT LAND	ALTERNATE SEDIMENT CONTROL ON SLOPES
(9) SCHEDULE OF CONSTRUCTION & IMPLEMENTATION OF BMP'S SEE "IMPLEMENTATION SCHEDULE AND SEQUENCE OF MAJOR	SEE SOIL STABILIZATION REQUIREMENTS
CONSTRUCTION OPERATIONS* IN THE FOLLOWING SHEET(S)	(d)(ii) SEDIMENT SETTLING PONDS
(h) NAME AND LOCATION OF INITIAL AND SUBSEQUENT RECEIVING WATERS	SEDIMENT SETTLING PONDS AND SKIMMER REQUIRED     N/A
UNNAMED TRIBUTARY TO BOSTON RUN	2. SEDIMENT POND DEWATERING VOLUME
WETLANDS OR AQUATIC SITE DISTURBED OR RECEIVING DISCHARGES	N/A
N/A	3. SEDIMENT POND DEPTH N/A
) TYPICAL INDIVIDUAL LOT SEDIMENT AND EROSION CONTROL DETAIL.	4. SEDIMENT POND DEWATERING VOLUME DRAINAGE TIME
ASPHALT/CONCRETE BATCH PLANT STORM WATER DISCHARGE LOCATIONS	N/A
N/A k) NPDES CONSTRUCTION STORM WATER GENERAL PERMIT #OHC000004	5. SEDIMENT POND DEWATERING DEVICE MEETS OHIO STANDARDS N/A
OHC000004 REQUREMENT CHECKLIST IS INCLUDED ON THIS SHEET	6. SEDIMENT POND SEDIMENT STORAGE VOLUME
) COVER SHEET IDENTIFICATIONS OF CONTACTS, DATES AND PROJECT, SEE SWPPP COVER SHEET	7. SEDIMENT POND LENGTH TO WIDTH RATIO
(m) INSPECTION AND MODIFICATION LOGS SEE NOTE, THIS SHEET	8. SEDIMENT POND CLEANING SCHEDULE
ART III.G.1.n SWP3 SITE MAP REQUIREMENTS	NUA
1. LIMITS OF EARTH-DISTURBING ACTIVITIES, INCLUDING OFFSITE	9. SEDIMENT POND SAFETY NIA
AS SHOWN ON THE FOLLOWING SHEET(S)  2. LOCATION OF SITE SOIL TYPES, INCLUDING UNSTABLE SOIL LOCATIONS.	(d)(iii) SILT FENCE AND OTHER DIVERSIONS
AS SHOWN ON THE FOLLOWING SHEET(S)	CONTROL OF SHEET FLOW
B. EXISTING & PROPOSED CONTOURS (INCLUDING PREAPOST DRAINAGE AREA	S) SILT FENCE WILL BE USED AS A CONTROL MEASURE 2. CONTROL OF CONCENTRATED FLOWISTEEP SLOPES
AS SHOWN ON THE FOLLOWING SHEET(S) SURFACE WATER LOCATIONS WITHIN 200 FEET OF SITE	NA NA
N/A TO THIS PROJECT	(d)(iv) INLET PROTECTION 1. INLET PROTECTION REQUIREMENTS
BUILDINGS, ROADS, PARKING LOTS, UTILITIES, ETC. AS SHOWN ON THE FOLLOWING SHEET(S)	<ol> <li>INLET PROTECTION REQUIREMENTS         OHIO STANDARD INLET FILTERS ARE PROVIDED AT ALL LOCATION</li> </ol>
EROSION & SEDIMENT CONTROL PRACTICES AS SHOWN ON THE FOLLOWING SHEET(S)	
AS SHOWN ON THE FOLLOWING SHEET(S) SEDIMENT BASINS (WITH VOLUME AND DRAINAGE AREA)	(d)(v) STREAM PROTECTION  1. STRUCTURAL SEDIMENT CONTROLS IN A STREAM
N/A	STRUCTURAL SEDIMENT CONTROLS IN A STREAM     NO STRUCTURAL CONTROLS ARE PROPOSED IN STREAMS
PERMANENT STORM WATER MANAGEMENT PRACTICES	2 STREAM BANKS AND STREAM CROSSINGS
EXISTING ON -SITE EXTENDED DETENTION BASIN  AREAS DESIGNATED FOR STORAGE & DISPOSAL OF WASTES	WHERE NECESSARY, NON-ERODIBLE MATERIALS ARE USED
AS SHOWN ON THE FOLLOWING SHEET(S)	PART III.G.2.E POST-CONSTRUCTION STORM WATER MANAGEMENT
Q. DESIGNATED CONSTRUCTION ENTRANCES AS SHOWN ON THE FOLLOWING SHEET(S)	IMPERVIOUS SURFACE INSTALLATION     IMPERVIOUS AREA INSTALLED - SEE PLAN
1. LOCATION OF ANY IN-STREAM ACTIVITIES	<ol> <li>BMP'S FOR POST-CONSTRUCTION CONTROL OF STORM WATER RUNOFF EXISTING ON-SITE EXTENDED DETENTION BASIN</li> </ol>
NIA TO THIS PROJECT	LONG-TERM MAINTENANCE PLAN
ART III.G.2 SEDIMENT & EROSION CONTROLS	3. LONG-TERM MAINTENANCE PLAN
NON-STRUCTURAL PRESERVATION METHODS PRESERVE RIPARIAN AND WETLAND SETBACKS, BUFFERS, ETC.	LARGE CONSTRUCTION ACTIVITIES (5 ACRES AND UP)
PRESERVATION EFFORTS HAVE BEEN MADE - SEE PLAN	4. DEVELOPED RUNOFF AREA POST BMP
PHASING OF CONSTRUCTION ACTIVITIES	5. STRUCTURAL BMP WITH WQV & DRAIN TIME
NO PHASING PROPOSED FOR THIS SITE  3. PORTIONS OF SITE TO REMAIN UNDISTURBED, AND PERCENTAGE OF SITE.	N/A
UNDISTURBED AREAS ARE SHOWN - SEE PLAN	6. NPDES CGP USED FOR WOV & DRAIN TIME. N/A.
STRUCTURAL EROSION CONTROL SITE STABILIZATION PROCEDURES AFTER CLEARING & GRUBBING	ADDITIONAL VOLUME FOR SEDIMENT STORAGE     N/A
SEE "SOIL STABILIZATION" REQUIREMENTS IN FOLLOWING SHEET(S)  TYPES OF STABILIZATION MEASURES AT VARIOUS TIMES OF THE YEAR	6. BMP DRAIN TIME USED
SEE "SOIL STABILIZATION" REQUIREMENTS IN FOLLOWING SHEET(S)	NA
I, TEMPORARY STABILIZATION NOTES	NOT USED
<ol> <li>EROSION CONTROL SCHEDULE (WITHIN 50' OF STREAM)</li> <li>SEE "SOIL STABILIZATION" REQUIREMENTS IN FOLLOWING SHEET(S)</li> </ol>	10. EXISTING DETENTION BASIN REQUIREMENTS NOT USED
b. EROSION CONTROL SCHEDULE (BEYOND 50' OF STREAM)	11, TRANSPORTATION PROJECT REQUIREMENTS NOT USED
SEE "SOIL STABILIZATION" REQUIREMENTS IN FOLLOWING SHEET(S)  C. EROSION CONTROL SCHEDULE (WINTER CONTROLS)	NOT USED 12. OFFSITE MITIGATION OF POST CONSTRUCTION REQUIREMENTS.
SEE "SOIL STABILIZATION" REQUIREMENTS IN FOLLOWING SHEET(S)	NOT USED
PERMANENT STABILIZATION NOTES     PERMANENT CONTROL SCHEDULE (WITHIN 50" OF STREAM)	13. REDEVELOPMENT PROJECT REQUIREMENTS BMP SIZED TO TREAT 20% OF THE WOV
SEE "SOIL STABILIZATION" REQUIREMENTS IN FOLLOWING SHEET(S)	14. NON-STRUCTURAL POST BMP REQUIREMENTS
<ul> <li>PERMANENT CONTROL SCHEDULE (IDLE FOR MORE THAN 1 YEAR)</li> <li>SEE "SOIL STABILIZATION" REQUIREMENTS IN FOLLOWING SHEET(S)</li> </ul>	NOTUSED
3. ALL ACCESS POINTS R.C.E., STAGING AREA STABILIZATION	15. ALTERNATIVE POST CONSTRUCTION BMP REQUIREMENTS NOT USED
AS SHOWN ON THE FOLLOWING SHEET(S)	
IG & STABILIZATION ACTIVITIES LOG	SWP3 MODIFICATION & UPDATE LOG

CORRECTIVE ACTION LOG

SMALL CONSTRUCTION ACTIVITIES (1 TO 5 ACRES)
16. STRUCTURAL POST-CONSTRUCTION BMP
EXISTING ON-SITE EXTENDED DETENTION BASIN
17. SELECTION OF BMP USED
LOCAL STORM QUANTITY REQUIREMENTS - SEE DRAINAGE CALCS.

18. ALTERNATE BMP SELECTION REQUIREMENTS LOCAL STORM QUANTITY REQUIREMENTS - SEE DRAINAGE CALCS. PART III.G.2.F SURFACE WATER PROTECTION PERMIT REQUIREMENTS
 NOT USED
 DIFFUSION OF RUNOFF PRIOR TO DISCHARGE INTO WETLAND
 NOT USED. NOT USED

NOT USED

NON-SEDIMENT POLLUTANT CONTROLS

1. NO WASTE(S) DISCHARGED INTO STORM RUNCFF
SEE NON-SEDIMENT POLLUTANT CONTROL GENERAL NOTES

2. DIRECTIONS ON DISPOSAL OF TOXICHAZARDOUS WASTE
SEE NON-SEDIMENT POLLUTANT CONTROL GENERAL NOTES

3. STORAGE A MIXING AREAS FOR CHEMICAL COMPOUNDS
AREA DESIGNATED ON PLAN SHEET

4. PROTECTED STOTAGE AREAS OF MATERIALS
SEE NON-SEDIMENT POLLUTANT CONTROL GENERAL NOTES

5. FUELING LOCATION IN RELATION TO WATERCOURSES 5. FUELING LOCATION IN RELATION TO WATERCOURSES
AREAS LOCATED SAFELY AWAY FROM WATERCOURSES
6. FUELING & VEHICLE MAINTENANCE AREAS
AREA DESIGNATED ON PLAN SHEET
7. FUEL STORAGE AREA SELF-CONTAINMENT SEE ON PLAN SHEET IL CONCRETE WASHOUT LOCATION IN RELATION TO WATERCOURSES AREAS LOCATED SAFELY AWAY FROM WATERCOURSES

9. CONCRETE WASHOUT STATION AREA DESIGNATED ON PLAN SHEET

10. REPORTING SPILLS LESS THAN 25 GALLONS
SEE NON-SEDIMENT POLLUTANT CONTROL GENERAL NOTES 11. REPORTING SPILLS MORE THAN 25 GALLONS SEE NON-SEDIMENT POLLUTANT CONTROL GENERAL NOTES SEE NON-SEDIMENT PULLUTANT CURTING GENERAL NOTES

12. SPILL PREVENTION CONTROL PLAN

SEE NON-SEDIMENT POLLUTANT CONTROL GENERAL NOTES

OFFSITE TRACKING

13. CONSTRUCTION OFFSITE TRACKING

SEE SEDIMENT POLLUTANT CONTROL GENERAL NOTES COMPLIANCE WITH OTHER REQUIREMENTS 14. OPEN BURNING RESTRICTIONS
PERMITTED, SUBJECT TO LOCAL AND OAC 3745-19

15. CONTAMINATED SOILS HANDLING
SEE NON-SEDIMENT POLLUTANT CONTROL GENERAL NOTES 16. PROCESS WASTEWATER/LECHATE MANAGEMENT
SEE NON-SEDIMENT POLLUTANT CONTROL GENERAL NOTES
17. CONSTRUCTION & DEMOUTION DEBRIS ALL CADD SHALL GO TO THE APPROVED LANDFILL (ORC 3714) ALL CADD SHALL GO TO THE APPROVED LANDFILL (ORC.3

18. RECYCLING OF HAZARDOUS MATERIALS
AREA DESIGNATED ON PLAN SHEET

19. DISPOSAL CONTAINERS FOR VARIOUS WASTES
AREA DESIGNATED ON PLAN SHEET

20. FILL FREE OF CONTAMINATION
CONTAMINATION
CONTAMINATED SOLLS ARE PROHIBITED FROM THE SITE

21. ON-SITE CONSTRUCTION WASTE DISPOSAL
CONSTRUCTION MATERIALS MAY BE USED, PER ZONING

22. AIR PERMITTING REQUIREMENTS
AIR PERMITS NOT REQUIRED FOR THIS PROJECT
THERACH AND GROUNDMATER CONTROL 23. TORBID DISCHARGE REQUIREMENTS ONTROL GENERAL NOTES
CONTAMINATED SEDIMENT
24. PAST LAND USE CONTAMINATION PROBABILITY
NOME A S STORE OF BUILDING



CcB CANADEA SILT LOAM GbC2 GEESBURG SILT LOAM W/B WHEELING SILT LOAM

BEFORE YOU DIG CALL TOLL FREE: 800-362-2764

SWPP TITLE SHEET C401

PROJECT NO: 2016-0533

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CHAPEL

CHRIST COMMUNITY

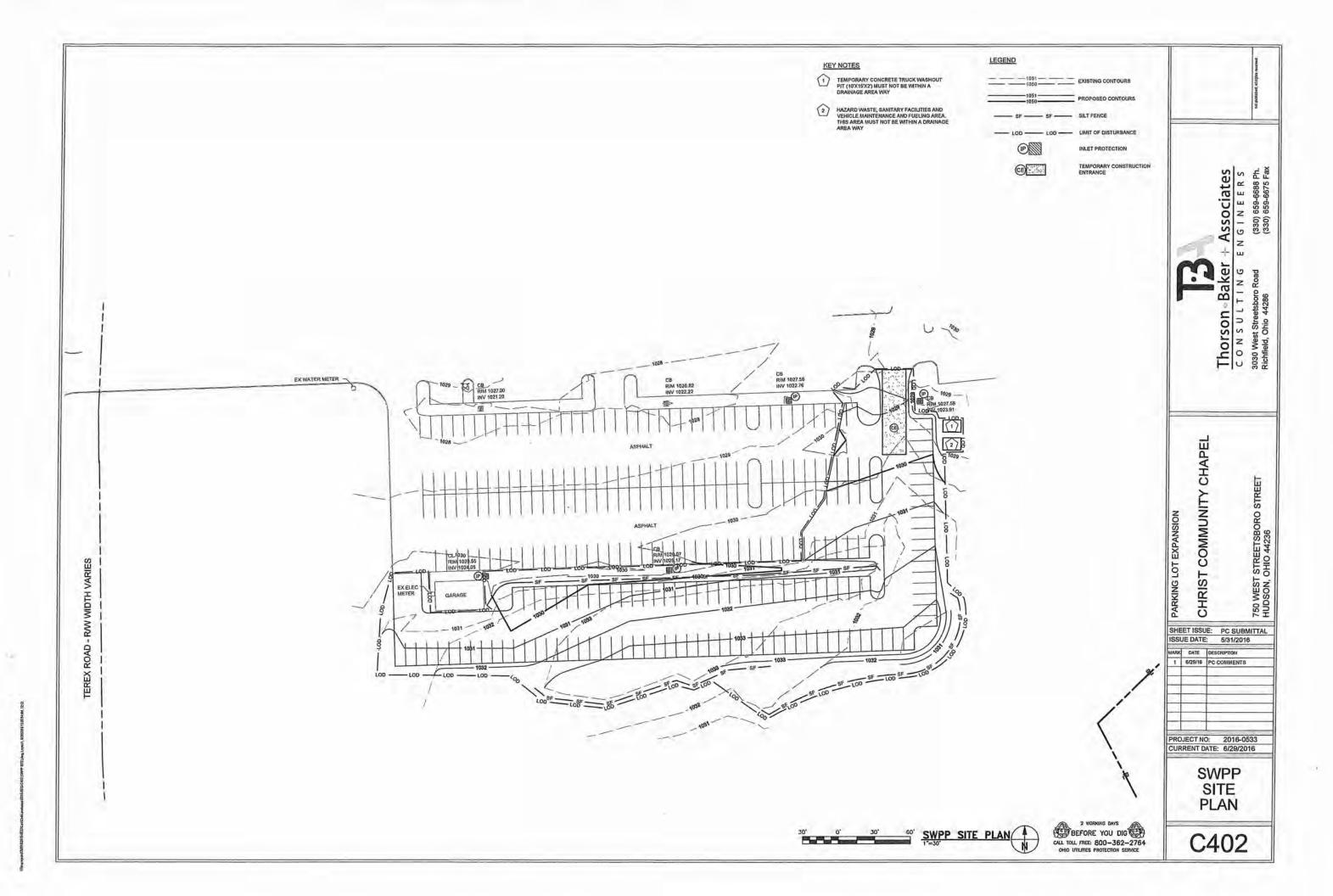
ISSUE DATE: DATE DESCRIPTION 1 6/29/16 PC COMMENTS

SHEET ISSUE: PC SUBMITTAL

PARKING LOT EXPANSION

750 WEST STREETSBORO HUDSON, OHIO 44236

SWPP TITLE SHEET



#### SEDIMENT POLLUTANT CONTROLS (GENERAL NOTES):

- PERIMETER SEDIMENT CONTROLS (I.E. SEDIMENT TRAPS, SILT FENCE, COMPOST SOCKS, PERMITER SEMINE TOWN FOR JLC. SEMINING THAPS, SILT FRINCE, COMPOST SECRE, COMPOST BERMS, ETC...) SHALL BE IMPLEMENTED AS THE FIRST STEEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING ANS SHALL CONTINUE TO FUNCTION UNTIL UPSLOPE AREAS DRAINING TO THEM ARE PERMANENTLY STABILIZED, OR AS DIRECTED BY THE CITYVILLAGE ENGINEER, OR DESIGNATED REPRESENTATIVE.
- NO EROSION AND SEDIMENT CONTROL BMP'S SHALL BE REMOVED FROM THE SITE PRIOR TO ADEQUATE PERHAPENT STABILIZATION OF THE ASSOCIATED UPLAND DRAININGE AREAS AND WITHOUT FIRST DRIVINING AUTHORIZATION FROM THE CITYVILLAGE ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, UNLESS THEIR REMOVAL IS SPECIFICALLY PROVIDED FOR WITHIN THE SITE'S APPROVED PLAN.
- THERE SHALL BE NO SEDIMENT-LADEN OR TURBID DISCHARGES TO WATER RESOURCES OR WETLANDS RESULTING FROM DEWATERING ACTIVITIES, IF TRENCH OR GRONDWATER CONTAINS SEDIMENT, IT MUST FASS THROUGH A SEDIMENT TRAP OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE, PRIOR TO SEING DISCHARGED FROM THE CONSTRUCTION SITE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTLING IN PLACE CONSTRUCTION STIEL ALTERNATIVELY, SEDMENT MAY BE REMOVED BY SETTING IN PLACE OR BY DEWATERING INTO A SUMP PIT, FILTER BAG OR COMPARABLE PRACTICE. GROUND WATER DEWATERING WHICH DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS IS NOT REQUIRED TO BE TREATED PRIOR TO DISCHARGE HOWEVER, CARE MUST BE TAKEN WHEN DISCHARGING GROUND WATER TO ENSURE THAT IT DOES NOT SECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.
- STREETS DIRECTLY ADJACENT TO CONSTRUCTION ENTRANCES AND RECEIVING TRAFFIC 4. STREETS DIRECTLY ADJACENT TO CONSTRUCTION ENTRANCES AND RECEIVING TRAFFIC FROM THE DEVELOPMENT AREA, SHALL BE CLEANED DAILY TO REMOVE SEDIMENT TRACED OFF-SITE. IF APPLICABLE, THE CATCH BASINS ON THESE STREETS NEAREST TO THE CONSTRUCTION ENTRANCES SHALL ALSO BE CLEANED WEEKLY, BASED ON SITE CONDITIONS, THE CITYVALLAGE ENGINEER: OR HIS DESIGNATED REPRESENTATIVE, MAY REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES TO CONTROL OFF-SITE TRACKING OF DUST.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER, OR REPRESENTATIVE, TO PROVIDE INSPECTION OF ALL CONTROLS ON THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS, AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. WHEN MYSECTIONS REVEAL THE NEED FOR REPAIR, REPLACEMENT, OR INSTALLATION OF EROSION AND SEDIMENT CONTROL BMP'S, THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
  - WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE: THE BMP SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION. EXCEPTION: SEDIMENT PONDS SHALL BE REPAIRED OR MAINTAINED WITH 10 DAYS OF INSPECTION.
  - B. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION: A MORE APPROPRIATE BMP SHALL BE SELECTED AND IMPLEMENTED WITHIN 10 DAYS
  - C. WHEN PRACTICES DEPICTED IN THE SWP3 ARE NOT INSTALLED. THE BMP SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION. IF THE INSPECTIO REYEALS THAT THE BMP IS NOT NECESSARY, THE REGORD MUST CONTAIN AN EXPLANATION FOR THE DECISION.

INSPECTION MUST BE COMPLETED BY A CERTIFIED PROFESSIONAL EROSION CONTROL (CPESC) OR CERTIFIED EROSION SEDIMENT AND STORMWATER INSPECTOR (CESSW).
SHOULD THE SITE BECOME DORMANT FOR AN EXTENDED PERIOD OF TIME AND IS STABILIZED, A WAIVER MAY BE SENT TO THE ONLO FEAT OR REQUEST A REDUCTION TO MONTHLY
INSPECTIONS. AFTER EVERY INSPECTION, A SIGNED CHECKLIST SHALL BE PROVIDED BY THE

- THE APPLICANT SHALL MAINTAIN FOR 3 YEARS FOLLOWING FINAL STABILIZATION, THE RESULTS OF THESE INSPECTIONS, THE NAMES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTIONS, THE DATES OF INSPECTIONS, MAJOR OSSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP9, A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE 5WP3, AND INFORMATION ON ANY INCIDENTS OF NON-COMPLIANCE DETERMINED BY THESE INSPECTIONS.
- ALL FROSION AND SEDIMENT CONTROL PRACTICES SPECIFIED ON THIS PLAN SHALL THE STANDARY AND SEDIMENT CONTROL PRACTICES SPECIFIED ON THIS PLAN SHALL CONFORM WITH THE DETAILS AND SPECIFICATIONS OUTLINED IN THE CURRENT VERSION THE OHIO DEPARTMENT OF NATURAL RESOURCES, "RAINWATER AND LAND DEVELOPMEN MANUAL, OR AS SPECIFIED BY THE CITYMILLAGE ENGINEER, OR DESIGNATED REPRESENTATIVE."
- 8. EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THIS PLAN MAY BE NECESSARY DUE TO UNFORESEIN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH-MOVING ACTIVITY. ADDITIONAL PRACTICES SHALL BE IMPLEMENTED AT THE DEVELOPER'S EXPENSE AS DIRECTED BY THE CITY/ALLAGE EMBINEER. OR DESIGNATED REPRESENTATIVE.
- 9. NO STRUCTURAL SEDIMENT CONTROLS (SILT FENCE, SEDIMENT TRAPS, ETC.) SHALL BE USED IN A WATER RESOURCE OR WETLAND, UNLESS THEIR USE IS SPECIFICALLY PROVIDED FOR WITHIN THE SITE'S APPROVED PLAN.
- 10. SOIL STOCKPILES, TOPSOIL OR OTHERWISE, SHALL BE SITUATED AWAY FROM STREETS. SWALES, OR OTHER WATERWAYS AND SHALL BE SEEDED AND/OR MULCHED IMMEDIATELY
- ONLSITE PERSONNEL SHALL TAKE ALL NECESSARY MEASURES TO COMPLY WITH 11. ON-SITE PERSONNEL SHALL TAKE ALL NECESSARY MEASURES TO COMPLY WITH APPLICABLE REGULATIONS REGARDING PUSITIVE DUST EMISSIONS, INCLUDING OSTANING NECESSARY PERMITS FOR SUCH EMISSIONS. THE CITY/VILLAGE ENGINEER, OR DESIGNATED REPRESENTATIVE, MAY REQUIRE DUST CONTROLS INCLUDING, BUT NOT LIMITED TO, THE USE OF WATER TRUCKS TO WET DISTURBED AREAS, AND REGULATION OF THE SPEED OF VEHICLES ON THE STEEL OF THE PERMIT OF THE SPEED OF VEHICLES ON THE STEEL OF THE PERMIT OF THE SPEED OF VEHICLES ON THE STEEL.
- 12. ANY DISTURBED AREA NOT PAVED, SODDED, OR BUILT UPON SHALL HAVE A MINIMUM OF 80% UNIFORM YEGETATIVE COVER PRIOR TO FINAL INSPECTION AND, IN THE OPINION OF THE CITY/MILLAGE ENGINEER OR DESIGNATED REPRESENTATIVE, WILL BE MATURE ENOUGH TO CONTROL EROSION SATISFACTORILY AND SURVIVE GEVERE WEATHER.

#### NON-SEDIMENT POLLUTANT CONTROLS (GENERAL NOTES)

- ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE. RESPONSIBLE FOR ENGURING ALL FORMS OF WASTE ARE PROPERLY DISPOSED OF.
- NO CONTAMINATED SOILS ARE KNOWN TO EXIST ON-SITE, ANY CONTAMINATED SOILS DISCOVERED OR FROM REDEVELOPMENT SITES SHALL BE DISPOSED OF PROPERLY. RUNGF FROM LOTAMINATED SOLIL SHALL NOT BE DISCHARGED FROM THE SITE. PROPER PERMITS SHALL BE OBTAINED FROM DEVELOPMENT PROJECTS ON BOILD WASTE LANDRILL SITES OR REDEVELOPMENT SITES. FUMB RUNGFO P CONTAININATED SOILS INTO A CONTAINER FOR TRANSPORT TO AN APPROVED DISPOSAL FACILITY.
- 3. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILL OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 16 FEET OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED. AWAY FROM ANY WATER CONVEYANCES
- 4. NO SOUD OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF. ANY AND NO SOUD OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNDER. ANY AND ALL WASTE MATERIALS (SOLID, HAZARDOUS, CONSTRUCTION & DEMOLITION, SANITARY, TOXIC, CONTAMINATED SOLIS, ETC., GENERATED AT THE SITE SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULESPREGULATIONS. ON SISTE STORAGE CONTAINERS SHALL BE DOVERED AND NOT LEAKING. IT IS PROHBITED TO BUSIN, BUY OR POUR OUT ONTO THE GROUND OR INTO THE STORM SEWERS ANY SOLVENTS, PAINTS, GASOLINE, DISSELFUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND ANY OTHER SUCH TOXIC OR HAZARDOUS MATERIALS OR WASTES.
- HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
- 6. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE, THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT WITH A MINIMUM CAPACITY EQUAL TO 110%. OF THE VOLUME OF ALL CONTAINERS IN A STORAGE AREA SHALL BE PROVIDED FOR ALL FUEL/LIQUID STORAGE TANKS AND DRUMS
- 7. ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.
- 8. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT
  - AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
  - B. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR APPROPRIATE CONTAINERS, AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
  - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE MANUFACTURERS LABEL. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

  - E. THE MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL
  - F. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE
- 8. IN ADDITION TO PREVIOUS NOTES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEAN-UP:

  A. CONTRACTOR MUST CONTACT OHIO EPA AT 1-900-282-9378. THE LOCAL FIRE
  - DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPG) WITHIN 30 MINUTES OF A SPILL 25 GALLONS OR GREATER.
  - MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP WILL BE POSTED AND SITE PERSONNEL MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN-UP SUPPLIES.
  - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOFFLES, CAT LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY DESIGNATED FOR THIS PURPOSE
  - D. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
  - F. THE SPILL AREA WILL BE KEPT WELL-VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

    SPILLS OF TOXIC OR HAZARDOUS MATERIALS WILL BE REPORTED TO THE
  - TE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.
  - THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCGURING AND HOW TO CLEAN UP-THE SPILL IF THERE IS ANDTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
  - THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THEY WILL DESIGNATE SITE PERSONNEL WHO MILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INOITIONALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.

## IMPLEMENTATION SCHEDULE & SEQUENCE OF MAJOR CONSTRUCTION OPERATIONS:

NOTE: ALL SEDIMENT AND EROSION CONTROLS WILL BE INSTALLED WITHIN 7 DAYS OF ALL CLEARING AND GRUBBING OF THE PROPOSED SITE.

- BEFORE ANY GRADING ACTIVITIES BEGIN:
   CONSTRUCT ORANGE CONSTRUCTION FENCING AS NECESSARY TO ENCLOSE SITE
   INSTALL PERIMETER SILT FENCE PER DETAIL
   PROVIDE ORANGE CONSTRUCTION FENCING PROTECTION FOR AREAS TO REMAIN
  - UNDISTURBED CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE
  - 5. INSTALL INLET PROTECTION ON EXISTING CATCH BASINS

- B. CLEARING AND GRUBBING:

  1. INSTALL REMAINING SILT FENCE, PER PLAN REQUIREMENTS
  - CLEAR AND GRUB REMAINING AREAS DESIGNATED ON THE PLAN CONSTRUCT CONCRETE WASHOUT AREA, VEHICLE FUELING AREA, CONSTRUCTION
  - DUMPSTER AREA, AND SOLID, SANITARY, AND TOXIC WASTE AREA

### STRIPPING AND STOCKPILING OF TOPSOIL STRIP TOPSOIL WHERE APPLICABLE AND PLACE IN DESIGNATED STOCKPILE AREA

- CONSTRUCT SILT FENCE AROUND STOCKPILE INSTALL SOIL STABILIZATION MEASURES AS NEEDED
- DISTURBED AREAS WHERE CONSTRUCTION WILL GEASE FOR MORE THAN 14 DAYS WILL BE STABILIZED

- D. MASS GRADING OPERATIONS:

  1. BEGIN MASS GRADING OF SITE PER PLAN

  2. INSTALL EROSION CONTROLS MEASURES, PER PLAN REQUIREMENTS AS NEEDED

  3. DISTURBED AREAS WHERE CONSTRUCTION WILL CEASE FOR MORE THAN 14 DAYS WILL BE STABILIZED.

## E. PAVING OPERATIONS: CONSTRUCT ASPHALT PAVING CLEAN AND RESET ALL UTILITY STRUCTURES TO FINAL GRADE

F. FINAL GRADING OPERATIONS.
REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES
REMOVE BHAS FROM STORM INLETS AND FINALIZE PAVEMENT ACTIVITIES
REMOVE TEMPORARY CONCRETE WASHOUT AREA REMOVE ALL TEMPORARY BMPs AND STABILIZE ANY AREAS DISTURBED BY THERE REMOVAL WITH EROSION CONTROLS PREPARE FINAL SEEDING AND LANDSCAPING

## G. POST-GRADING OPERATIONS: MONITOR PROGRESS OF SITE STABILIZATION

RE-SEED AND REPAIR DAMAGED AREAS MAINTAIN AND INSPECT ALL PERMANENT BMPs

#### Table 1: Permanent Stabilization

Area requiring permanent stabilization	Time frame to apply grosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Any other areas at final grade	Within seven days of reaching final grade within their area

#### Table 2: Temporary Stabilization

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
For all construction activities, any disturbed areas that will be dormant for more than 14 days but less than one	Within seven days of the most recent disturbance within the area
year, and not within 50 feet of a surface water of the state	For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s).
Disturbed areas that will be idle over	Prior to the onset of winter weather

Associates
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Thorson 3030 West Stree Richfield, Ohio 4

CHAPE STREET COMMUNITY STREETSBORO OHIO 44236 CHRIST 750 WEST (HUDSON, C

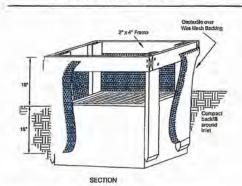
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SWPP GENERAL NOTES

C403

SWPP GENERAL NOTES BEFORE YOU DIG CALL TOLL FREE: 800-362-2764

## **Geotextile Inlet Protection**



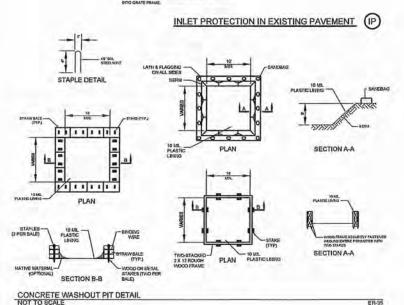
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- Their protection which be construined either below repaired by the disflut here begins or before the latel becomes hundred.

   The earth ground the which shall be excernited completely be a depth of learning to the behalf of the laten.

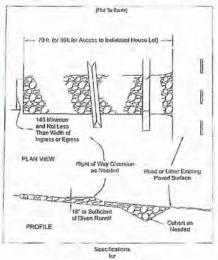
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566

- Backtiff shall be placed around the intof in compacted G
- 7. A compacted earth dike or check dam shall be con



## Construction Entrance



#### Construction Entrance

Culvert -A pipe or current shall be constructed under the chirams if meddel to prevent currice water from flowing across the entrance of to prevent runs? from coing direction out cate paved surfaces.

(i) Construction enhances small rights return upon its entertion ment from realizes and present off-use tracking Vehicles that enter and leave the construction-site shall be restricted from myody areas.

- Size 5ee OCGT # 2,11 5-25 with state she (be used to in Things—The contraction program whether installed interpreted instance segments and
   sources is preposed to be recorded and of the contraction of the contrac
- Length Tru Continuition contracts that he said required to state Right halfor seas had not less 70 fc loccophile copy 50 ft, minimum in cryst residence trug
- 4 Width—The entrance shall be at least 14 feet wide, but not less than the bill width at contextules boreas or e unitary.
- 5 Section et Algorisation unable la closer projects orient politicing above, it shall be composed of other reference payment. Nature and most like fallowing applications.

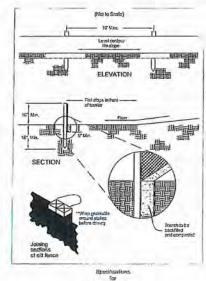
Cestertle Specification i	to Confraction Entrance
מבייצ למביו לחבים לייבים	200 61
Unmary Purcure Strength	10 ps
Unman les Sterne	50 to
Marror Build Streigh	323 pti
tionintorptiv	10.0
Favorer foreigns	105 - 65 mm.
Paradick	1×13-5 cm/bas

# **Temporary Seeding**

Stating Dales	Species	10/1000 02	(bPare
March 1 In August 15	Outs Tall Fescool Annual Rycyrus	3	120 (1800) 43 40
	Perennal Ryecress Tall Recove Actual Pyrograms	1	40 40
	Arment Pyrograms Personnial Pyrograms Creeping Paul Prompte Bentucky Sturgence	1.25 3.25 0.4 0.6	55 142 17 17
	Orts Tel Fescue Acusal Ryegous	1	120 (3 turbe) 19 49
August 16th to keverniss	Rye Tell Feature Amount Ryenyates	1	to co
	Wheal Tail Festive Armal Byogram	1	123 (2 cums) 40 40
	Personal Rys This Feature Around Rysophess	1	40 40 40
	Annual Ryrograms Personial Ryrograms Oscoring Red Fescot- Ventucky Burgapan	1.25 125 0.4 0.4	40 40 40
Strander 1 to Feb. 79	this match only or drawant see	500	

- operations on soil that trill or for 21 days or greater. These within 7 days after grading.

#### Specifications Silt Fence



Silt Fence

- II. Where ther A mater size that he constructed as permit the 2. All still ferror shall be priced an object to Parenthur as possible to that water will not concentrate at lon possible the times and so that small society or decreasions that your convenient of floor, to the old forms are any any small concertain despated stong as benefit
- . Asymptomics—Top dressing of sode() as some often the applied as conditions contained that collect, dropped, washed or beafed only explic master, or any services where model is not disclosed by additional confess, shall be extended immediately. Alternational that be uncompiled at by scraping or soverprog.
  - Shiferen that he placed on the thirtest over contable
  - Where proceed, vegetation shall be preserved for 5 feet for 45 mach so published equippe from the 44 force. If registation to removed, it shall be reestablished within 7 days from the installation of the sall force. A This hages of the six fonce shall be a principum of 16 inches above the original ground surface.
  - 7. The six fence should be placed in an executate or since it beach soil a minimum of 6 inches deed. The beach shall be made with a training could be highly machine, smalling machine, and of the smallest deal of the similar of t
  - The artificial shall be placed with institutes on the directions side of the quotients. A placement of a refer of quotients of precision must be below the ground nutrice. Extens makes that they on the below of the 6-one for each that the contract of or other than the contract of or other than the first of the first the firs

- 2. Seams between reducins of a literice shall be specied forgither any of an apport tool with a minimum 6-10 even up on a living bits the ment, then details 10 bits returned.—Six from all all seams result in post any sea offers of two recept the greaters. It amount only the sale from, show under the behing or remort be found on the property and post a conceptibility found of the property and post a conceptibility found on the property and professional productions are professionally and the professional and approximately an approximate. If the region of the offers are professionally an approximate in the property of the professional and professional and approximate that the contract of the professional and approximate that the professional approximate that the professiona unimper, 2) accumulated entiment is Typicer practices shall be installed.
- Ordans for a 11 force marginals
- Communication and the second and sec 2. Salance taber - See that below

FILE CROPERES	WILLES	TETUTE
Marcar Trock Strapp	TEL CO. CO. CO. CO.	ASTU 9 4672
Maining Pospulm at #3 ha	50%	A51U D 4632
Manna Forther Stroops	50 to (220 fg	ASTU 0 4633
Minimum Ray Strength	40 23/16970	ASTER D 4513
Account Opening Site	# 0.84 ecm	ASTUG CIEN
Marriery Promittelly	1X10-3.tes-1	ASTIND 4491
LEFT Expression Diverges Patientes	774	ASTU 6425

## **Temporary Seeding**

#### Mulching Temporary Seeding

- 2. Ustale's
- strain applied at a sp. ii. (2-3 balos)
- Other-Other accopitable mulches in dude mulch mailtangs
- . Mechanical A risk, oranger, or a milter type local shall be
- Mulch Hetting-Netting shall be used according to the
- Wood-Gellulaan Files:—Wood-calluling Files bingles shall be applied at a net day set, of 750 to 7ac. The wood-sellulaan liber steat be moved with woder and the modure shall contain a maximum of 50 to 7100 gail.

## Specifications

#### **Permanent Seeding**

- Sile Preparation

  Sharings, pinn, or other implement shall be used to
  robuse and compretion and other remainment reliaration.
  (Materiality in Wirelan mail fellow protected both must find and
  visite quality! Subjecting placed be a force when the poli
  moname a live energies both wire bot to crack or fractive.
  Obsolving that not be also on also person ever strates
  all preparation and beat fair final to which in resizuancy for
  the protection and when the final final in subjective to the protection of the protection

- Seathed Preparation

  1. Line—Apticulumi ground limitations shall be applied to acid and as recommended by a smill leat. In lite of a scill test, their shall be applied to the rich 100 seaths of a scill test, their shall be applied to the rich 100 seaths cer 1,000 org, the or 2 test part store.

  5. Fortilize—Facilize shall be applied as recommended by a spill lest. It in place of a smill lest, (fortilize shall be applied at a railes at 25 pounds per 1,000 org, the 1000 pounds per same of a 16-10-10 or 12-12-12 condynes.

  The sine and extractes shall be out-shed lest this oil with a dist in term, grimp-thoir learner, or other stability field implement to a depth of 3 inches. On adopting than, the scall shall be revised on the occition.

Serding Dates and Soil Conditions

Finding should be drive March It to May 31 or August I I
finding should be drive March II to May 31 or August I I
for September 20. If strating concurs outside of the above-specified dates, additional mulch and inspation may be required to cause an arbeing and offsy promissions. Thispe for control of proposition should be diver when the small picty compals to control or and other medicates when the comperent

#### Dormant Seedings

- Definite december.

  J. Selectings should not be made from October 1 through from made 20. During this period, the seests are likely to generate both probably not not be able to authin the white.

  Z. The following molitoris may be used for "Domand Seeding":
- 3. Stramard Mich Androng Historia

- Mechanical—Adiak, ownper, or similar type tect shall be
- Malch Helting—Helting small be used according to the manufacturer's recommendations. Helting may be necessary to told reside in place to some of concentrated narroll and an entirer stopes.

- From October 1 Brough November 20, pregne the socreod, add the required amounts of time and fertilizer, then major and anchor. After November 20, and before Narch 15, broadcast the antecked seed minure. horeast the seeding
- From Nyember 20 strongs March 15, raison self consi-fican parmit, prepare the secrices, firms and localizes, apply the selected secol minutes, mulch and another. Humans the selecting rates by 50% for tilds type of secoling.
- as diffing raise by 190%, for this type of seeding.

  Fighty seed making within explains each of 30, edit packets
  conder, or hydro seedin (shary any analysis seed and fertification on a firm, most accedious.)

  Which location, weight which a coall packet type seeder
  is used, the seedered abroach to firm all willowing seeding
  comportants within a coallipacket, reflect on play draing. On aboding
  bond, reflecting occurrings should be an this condoor where
  earths.

- reproved analysis.

  2. Jaharshi.

  2. Jaharsh
- Hydroscolors—If wood colluless (ber is used, it chall he applied at 2,000 ib/he; or 48 ib/1,000 sq. ft.
- Other—Other acceptable mulcines include miled ension control multilings or blands applied sccording to manufact hard's recommendations or accord objes applied at 6 form per same.

## Systetic Zinders—Synthetic binders such as Acrylle DLR (Agri-Tack, DCA-70, Petroset, Terra Tack or equinalent way to eard at rates specified by the monuticiturer

Most Dehidos e Pites — Who o certakare filter shall be applied at a net dry varight at 750 prends per acre. The moop stalkboar filter shall be missed with nature with the misture containing a maximum of 50 pounds collabora per 100 gal-loses of variets.

#### Table 7 102 Pares

Scot Uta	Eeeding Rate		1.	
amen [	Chu/tare	Lbs./1,530 53. Red	Delet	
		Centeral Ut a		
Proping Part Fernan 20-43 Proping Rysgams 10-20 miledy Bloggams 20-40		12-1 14-1/2 12-1	For the month of the material part of the least of the le	
in Fernie	40-50	1-114		
of-type isourity Fesche	90	211		
	- Ann 13	Please Planting or Cut Dispers		
of Feature	40-50	1-1 14		
rom Velen at Forces	10-29 23-20	\$4-12 12-33	Do not send beer your August	
ist Pen of Fences	20-25 20-30	12-34 12-31	Do not send taler tran August	
		Pood Dilettes and Sentes		
il France	30-50	1-134		
of-type hand) Recon mitody Bharyans	90 5	214		
		tama		
militarly Biorgrams mercial Rymyrass	109-120	2 2		
rokely filegram 100-420		1-1/2	Fra photon arror	

Thorson Bak
C O N S U L T I N
3030 West Streetsboro Re
Richfield, Ohio 44286 CHAPEL

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STREET COMMUNITY OHIO 44236 CHRIST 750 WEST HUDSON, C

SHEET ISSUE: PC SUBMITTAL ISSUE DATE: 5/31/2016 ORK DATE DESCRIPTION 1 6/29/16 PC COMMENTS PROJECT NO: 2016-0533

SWPP NOTES & **DETAILS** 

CURRENT DATE: 6/29/2016

#### Additional Construction Site Pollution Controls

- Construction personnel, including subcontractors who may use or handle hazardous
  or toxic materials, shall be made aware of the following general guidelines regarding
  disposal and handling of hazardous and construction wastes:

  - · Use products up
  - . Follow label directions for disnosal
  - · Remove lids from empty bottles and cans when disposing in trash
- . Recycle wastes whenever possible
- . Don't pour into waterways, storm drains or onto the ground
- . Don't pour down the sink, floor drain or septic tanks
- . Don't bury chemicals or containers
- · Don't burn chemicals or container
- . Don't mit chemicals together
- 2. Containers shall be provided for the proper collection of all waste material Containers shall be provided for the proper collection of all waste material including construction debris, trash, percolaum products and any hazardous materials used on-site. Containers shall be covered and not leaking. All waste material shall be disposed of at facilities approved for that material, Construction Demolition and by boths (CD&D) waste must be disposed of at an Ohio EPA approved CD&D familial.
- 3. No construction related waste materials are to be buried on-site. By exception, clean fill (bricks, hardened concrete, soil) may be utilized in a way which does not encreach upon natural wetlands, streams or floudplains or result in the contamination of waters of the state.
- Handling Construction Chemicals. Mixing, pumping, transferring or other handling of construction chemicals such as fertilizer, lime, amphalt, concrete drying compounds, and all other potentially hazardous materials shall be performed in an area urse ditch or storm drain
- Sway from any vanecourse, due no storm drain.

  5. Equipment Fueling and Maintenance, oil changing, etc., shall be performed away from watercourses, ditches or storm drains, in an area designated for that purpose. The designated area shall be equipped for recycling oil and catching spills. Secondary containment shall be provided for all file oil of storage tanks. Then areas must be inspected every seven days and within 24 his. of a 0.5 inch or greater rain event to ensure there are no exposed materials which would contaminate storm water. Site operators must be aware that Spill Prevention Control and Countermeasures (SPCC) requirements may oe aware chat, Juli revenuous Control and connermeatures (2002) requirement may apply. An SPCC plan is required for sites with one single above ground tank of 650 pallons or mure, accumulative above ground storage of 1339 gallons or more, or 42,000 gallons of underground storage. Contaminated solfs must be disposed of in accordance
- 6. Concrete Wash Water stall not be allowed to flow to streams, dicthes, storm drains, or any other water conveyance. A sump or pit with no potential for discharge shall be constructed if needed to contain concrete wash water. Field like or other subsurface, drainage structures within 10 to 0f the sump-stall be cut and plogged. For small projects, furely clustes may be rinted away from any water conveyances.
- Spill Reporting Requirements; Spills on pavement shall be absorbed with sawdust or kitty litter and disposed of with the trash at a licensed sanitary landfill. Hazardnus or as any nurse and disposed of with the trash at a licensed santiny landfill. Hazardous or industrial wastes such as most solvens, gasoline, oil-basted points, and coment ruring compounds require special brandling. Spills shall be reported to Ohio EPA. 1800. 282-9378). Spills of 25 gallons or more of permisent products shall be reported to Ohio EPA, the local fire department, and the Local Emergency Planning Committee within 30 min. of the discovery of the release. All spills which contact waters of the state must be reported to Ohio EPA.
- 8. Contaminated Soils. If substances such as oil, diesel fuel, hydraulic fluid, entifrees contaminated solute. In securious assets as on, order to the, nyuranic muo, entirezza, circ am spilled, leaked, or releasad onto the soil, the soil should be dug up and disposed of all fecused sanitary landfill or other approved petroleum contaminated soil remedia-tion facility, order a construction/demolifion debris landfill). Note that starm vater run off associated with contaminated soils are not be authorized under Othio EPA's General Storm Water Permit associated with Construction Activities
- 9. Open Burring. No materials containing rubber, grease, asphalt, or putro ucts, such as lires, antopurts, plasties or plastic coated wire may be burned (OAC 3745-19). Open burning is not allowed in restricted areas, which are defined as: 1) tion limits; 2) within 1000 feet outside a municipal corporation h within corporation limits; 2) within 1000 feet outside a municipal corporation having a population of 1000 to 1000s; and 3) a one mile zome outside of a corporation of 10, 000 or more. Outside of restricted areas, no open buming is allowed within a 1000 feet of an inhabited building on another property. Open buming is permissible in a restricted area for: heating tax, welding, amodge poits and similar occupoitonal needs, and healing for warmen or outdoor berbrques. Outside of restricted areas, open huming is permissible for landscape or land-clearing wastes (plan transferfal, with prior written permission from Ohio EPA), and agricultural wastes, excluding buildings.
- 10. Dust Control or dust suppressants shall be used to prevent nuisance conditions, in accordance with the manufacturer's specifications and in a manner, which prevent a dis-charge to waters of the state. Sufficient distance must be provided between applications and nearly bridges, earlich batter, and other waterways. Application (excluding water) may not occur when rain is imminent as mored in the short term forecast. Used oil may
- 11. Other Air Pennitting Requirements: Certain activities associated with consort 1. Other Air Permitting Requirements: Certain activities associated with consunc-tion will require air permits including but not limited to: mobile concrute back plants, mobile asphalt plants, concrute crushers, large generators, etc. Them activities will require specific Ohio IRA Air Permits for installation and operation. Operation must, seek authorization from the corresponding district of Ohio IRA. For demolitium of all commercial sites, a Notification for Restoration and Demolition must be submitted to the CRA.
- 12. Process Waste Water/Leachate Management. Ohlo EPA's Construction General Permit only allows the discharge of storm water and does not include other waste Permit only allows the discharge of storm water and does not include other water stream/discharges such as whiche and/or regularent washing, on-the specific lesichage concrete wash outs, which are considered process wastewaters. All process wastewaters was to collected and properly disposed at an approved disposal facility. In the event, leachate or septage is discharged; it must be tolylated for collection and proper disposal and corrective actions taken to eliminate the source of waste water.
- 13. A Permit To Install (PTI) is required prior to the construction of all centralized sand tary systems, Including sever extractions, and severage systems (except thate serving one, two, and three finally devolutings) and postale water lines. Plans must be submitted and approved by Ohlo EPA, Lavance of an Ohlo EPA Construction General Sturm Water Pennit does not suborted. Water Pennit does not suborted the installation of any severage system where Ohlo EPA has not approved a PTI.

#### **Dust Control**

- Vegetaline Cover and mulch Apply temporary or perma-nent seeding and mulch to areas that vall remain idle for over 21 days. Saving existing trees and large shrubs will also neduce soil and air movement across disturbed areas. See Temporary Seeding; Permanent Seeding; Mulching Practices: and Tree and flatural Area Protection
- 2. Watering Scray sile with water until the surface is wet be done at a rain that prevents dust but does not cause soil erosion. Welting agents shall be utilized according to
- 3. Spray-On Adhesives Apply adhesive according to the fol-

Atheries	(Admire Water)	fire fire	Application Rate Cal./Ad
Later Employee	12.5.1	Fre	235
Reats in Water Acrylic Emulsion (No-Iraffic)	4:1	Fira	300
Acrylic Emulsion (No-traffic)	7.1	Course	450
Acrylic Ermisten (traffic)	3.5:1	Costea	250

- 4. Stone Gradeu monthrays and other subtable areas will be stabilized using crushed stone or course gravel as soon as practicable after reaching an interim or final grade. Crusheu stone or cobrs gravel can be used as a pairmanent cour to provide control of soil emissions.
- 5. Barriers Existing windbreak venetation shall be marked and preserved. Snow fencing or other sustable barrie may be placed perpendicular to prevailing air currents at Intervals of about 15 times the barrier fleight to control air coments and blowing coll
- S. Calcium Officide This chemical may be applied by mechanical spreader as loose, dry granutes or flakes at a rate that keeps the surface motet but not so high as to cause water pollution or plant damage. Application rates should be strictly in accordance with suppliers' specified
- Operation and Maintenance When Temporary Buch Control measures are used, repetitive Insament should be applied as needed to accomplish control Street Clinician - Payed gress that have accumulated needed, utilizing a street sweeper or bucket -type endloads

#### Mulching

1. Mulch and other appropriate vegetative practices shall be 3. Mulch Anchoring - Mulch shall be anchored immediate applied to disturbed areas within 7 days of grading if the agence to dealed a rees whithin 7 bigs of greating in the area is to remain domaint (undisturbed) for more than 21 days or on areas and partieur of the site which can be brought to final grade.

area into opposituately 1,000 sq.fl, sections and place two 45-ib, bates of straw in each section.

Hydrosesdors - Wood celluloso fiber should be used at 2,000 fb./ac, of 46 fb./1,000 sq. ft.

- set straight to punch or enchor the mulch material into 2. Much shall consist of one of the following. the coil. Strair mechanically archored shall not be finely chapped but be left generally longer than 6 inches. Straw - Straw shall be unrolled small grain straw applied at the rate of 2 tons/ac, or 90 to /1,000 sq. ft. (two to Mulch Nestrigs - Use according to the manufacturer's three bales). The strain mulch shall be spread uniformly recommendations, following all placement and anatoming requirements. Use in areas of water concentration and steep stopes to hold mutch in place. by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread match, divide
- steep subject to not on the face.

  Syptiatic Brains For Stany muttin, syptimist bir other such as Acrylto DLR (Mpt-Tac), DCA-70, Patrionst, Tiera Tack or again may be suced in Talles reconnected by yiell manufactures All applications of Sythetic Birders must be conducted in such a marrier athere there is no certain values of the claim. Other - Acceptable muldres include mulch mailtings and rolled eroston control products applied according to

to minimize bas by wind or runoff. The following are acceptable methods for anchoring mulch.

Mechanical - Use a disk, crimper, or similar type tool

Wand Calluting Filter - Wood callutines filter may be used for enableing straw. The filter binder shall be applied at a set day weight of 750 fb./acm. The wood callutines filter had be intered with valer and the mature state contain a maximum of 50 fb./100 gat. of vood callutines filter.

#### De-Watering

- 1. A de-systeming plan shall be geneloped prior to the commencement of environmolog activities.
- 2. The do-watertoo plan shall include all purpos and related equipment necessary for the dewatering activities and designate were for placement of practices. Outlets for practices shall be protected from scow either by riprop protection, fabric lines, or other acceptable method of
- Water that is not discharged into a settling/weatment basis but directly into waters of the state shall be moni-tered hourly. Discharged water shall be within +/-5° F of
- 4. Settling basins shall not be greater than lour (4) foot in depth. The basin shall be constructed for setfment storage as outliered in Chapter 6, SCRUBERT RASH on SCRUBERT TRIVE. This risk are doubted for the busin shall be located of the farthest points of the storage. A floating outlist shall be used to ensure that settled tolded on not re-surperid during the discharge process. The settling beath shall be cleased out when the storage has been reduced by 50% of its original canocity.

#### Topsoiling

#### Selvaging and Stockpilling

- Determine the copts and suitability of topsoil of the site. For holo, contact your local SWID office to obtain a county. of savey report).
- Prior to stripping topooli, install appropriate downship is ex-sion and sestmentation controls such as seediment loops are
- 3. Remove the soil malaried on disport than what the mouve no sui material no disper than what the county soil survey describes as "surface soil" (i.e., A or An ferium)
- 4. Combined stockpiles in accessible licentims that do not interfere with natural drainings. Install appropriate sedi-ment control to trap sediment such as still force immedi-ately adjacent to the dockpile of sediment traps or bashes downstream of the stockpile. Stockpile side slopes shall not exceed a ratio of 2:1.
- 5. If topsoil is stored for more than Zidays, it should be formarary seeded, or covered with a tarp.

Spreading the Topsell

- 1. Prior to applying topsol, the lopeoli should be pulverized.
- 2. To ensure bonding, grade the subsoil and roughon the top 3-4 in. by disking
- 3. Do not apply when pile is pet, moddy, or frager, because it locker that patient affects
- 4. Apply logspill eventy to a ceptin of at least 4 inches and compact allightly to improve contact sWh subtral
- 5. After speading, grade and stabilize with cooking or appropri-

#### **Grade Treatment**

Cat Slopes-Greater than 3:1 Slopes

- As super-versus was an Ex super-tif Sakir-dup grading may be carried out or any material and exough to be ripped with a buildness. The ratio of the inst-cental distance to the vertical of distance shall be finish from 1:1 and the functional portion of the "step" shall along bowed for vertical wall, individual vertical count shall not be more from 24 inches on soft soil materials and not n
- than 36 indices on copy materials.

  2. Growing may be made with any appropriate implement which will not case under compection. Suppered implements include case, tilens, spring among any desired implements include disco, tilens, spring immore, and the testifica or formation disader burder. Such growers shall not be less.

Fill Davis Contaction 24 Securi Fill slopes slooper then 3:1 stoles.

This slope slooper then 3:1 shall be growed or allowed to retain much as they are constructed utilizing method (f) or (2) below.

- Growing may be roade with any appropriate implement which can be safely operated on the signs and which sail tel cause under compaction such as affects, Others, spring harrows, and the leath on a front-and loader busies. Soomes left shall not be leas than 3 inches deep nor further
- 2. As fits of the fill are constructed, and and rock materials usey be allowed to fall resharally onto the slope surface for lime shall slopes be blacked or scraped to produc

- Cots, Fills, and Graded Areas Which VIII Be Marwed

  1. Moved singer should not be stepper than 24 land shall
  make decorate roughters. This areas may be proplemed
  with disabor growers used, as they, which remain after
  filling, disable, hererolog, radius, or use of a catilipadereaseler. The first joes of any such Ullags implement chell
  be on the control proprocious to.

loughening With Tracked Machinery

- Avoid tracking clayery soils if possible, due to their potential for compaction. Conversely sandy soils will have low poten-
- 2. Operate tracked machinery up and down the slope to leave horizontal segressions in the soil. As less passes of the modificary thould be made as passable to minimize com-

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SWPP NOTES & **DETAILS**