

WOODLAND CONSERVATION AREA MANAGEMENT NOTES

hazardous may be removed.

Removal of Hazardous Trees or Limbs by Developers or Builders The developer and/or builder is responsible for the complete preservation of all forested areas shown on the approved plan to remain undisturbed. Only trees or parts thereof designated by the Department of Environmental Resources as dead, dying or

I. A tree is considered hazardous if a condition is present which leads a Licensed Arborist or a Licensed Tree Expert to believe that the tree or a portion of the tree has a potential to fall and strike a structure, parking area or other high use area and result in personal injury or property damage.

- 2. If a hazardous condition may be alleviated by corrective pruning, the Licensed Arborist or a Licensed Tree Expert may proceed without further authorization. The pruning must be done in accordance with the latest edition of the ANSI A-300 Pruning Standards ("Tree Shrub and Other Woody Plant Maintenance - Standard Practices").
- 3. Corrective measures requiring the removal of the hazardous tree or portions thereof shall require authorization by the building or grading inspector if there is a valid grading or building permit for the subject lots or parcels on which the trees are located. Only after approval of the appropriate inspector, may the tree be cut by chainsaw to near the existing ground level. The stump may not be removed or covered with soil, mulch or other materials that would inhibit sproutina.
- 4. Debris from the tree removal or pruning that occurs within 35 feet of the woodland edge may be removed and properly disposed of by recycling, chipping or other acceptable methods. All debris that is more than 35 feet from the woodland edge shall be cut up to allow contact with the ground, thus encouraging decomposition. The smaller materials shall be placed into brush piles that will serve as wildlife habitat.

Removal of Hazardous Trees, Limbs, Noxious Plants, Invasive Plants or Non-native Plants in Woodland Conservation Areas Owned by Individual

- 1. If the developer or builder no longer has an interest in the property, the homeowner shall obtain a written statement from the Licensed Arborist or Licensed Tree Expert identifying the hazardous condition and the proposed corrective measures prior to having the work conducted. The tree may then be removed by the arborist or tree expert. The stump shall be cut as close to the ground as possible and left in place. The removal or grinding of the stumps in the woodland conservation area is not permitted.
- 2. The removal of noxlous, invasive and non-native plant species from the woodland conservation areas may be done with the use of hand-held equipment only, such as pruners or a chain saw. These plants may be cut near the ground and the material less than two inches diameter may be removed from the area and disposed of appropriately. All material from these noxious, invasive and non-native plants greater than two (2) inches diameter shall be cut to allow contact with the ground, thus encouraging
- 3. The use of broadcast spraying of herbicides is not permitted. However, the use of herbicides to discourage re-sprouting of invasive, noxious, or non-native plants is permitted if done as an application of the chemical directly to the cut stump immediately following the cutting of plant tops. The use of any herbicide shall be done in accordance with the label instr-
- Note: The use of chainsaws is extremely dangerous and should not be cond-ucted with poorly maintained equipment, without safety equipment, or by individuals not trained in the use of this equipment for the pruning and/or

Protection of Reforestation and Afforestation Areas by Developers or Builders

I. Reforestation and afforestation areas shall be planted prior to occupancy of the nearest building or residence. If planting cannot occur due to planting conditions, the developer or property owner shall install the fencing and signage in accordance with the approved Type II Tree Conservation Plan. Planting shall then be accomplished during the next planting season. If planting is delayed beyond the transfer of property title, to the homeowner, the developer shall obtain a signed statement from the purchaser indicating that they understand that the reforestation area is located on their property and that reforestation will occur during the next planting season. A copy of that document shall be presented to the grading inspector and the environ-

2. Reforestation areas shall not be moved, however the management of competing vegeta-

Protection of Reforestation and Afforestation Areas by individual Homeowners

- Reforestation fencing and signage shall remain in place in accordance with the ap-proved Type II Tree Conservation Plan or until the trees have grown sufficiently
- 2. Reforestation areas shall not be moved, however, the management of competing vegetation around individual trees is acceptable.

Woodland Areas NOT Counted as Part of the Woodland Conservation Requirements

I. A revised Tree Conservation Plan is required prior to clearing any woodland area which is not specifically identified to be cleared on the most recently approved Type II Tree Conservation Plan (TCP) on file in the office of the M-NCPPC, Environmental Planning Section located on the 4th floor of the County Administration Building at 14741 Governor Oden Bowle Drive, Upper Mariboro, Maryland 20772, phone 301-452-3650. Additional mitigation will be required for the clearing of all woodlands beyond that reflected on the approved plans. Although clearing may be allowed, it may be subject to additional replacement requirements, mitigation and fees which must be reflected on TCP revisions approved by the M-NCPPC Environmental Planning Section.

2. Homeowners or property owners may remove trees less than two (2) inches diameter, shrubs, and vines in woodland areas which are saved but not part of the woodland conservation requirements after all permits have been released for the subject property. This area may not be tilled or have other ground disturbances which would result in damage to the tree roots. Raking leaves and overseeding with native grasses, flowers and groundcovers is acceptable. Seeding with invasive grasses, including any variety of Kentucky 31 fescue is not acceptable.

TYPE II TREE CONSERVATION NOTES

- . Cutting or clearing of woodland not in conformance with this plan or without the expressed written consent of the Planning Director or designee, shall be subject to a \$1.50 per square foot mitigation fee.
- 2. The Department of Environmental Resources (DER) Inspection and Code Compliance Section (301-883-6033), must be contacted prior to the start of any work on the site to address implementation of Tree Conservation Measures shown on this plan.
- 3. Property owners shall be notified by the Developer or Contractor, of any Woodland Conservation Areas (Tree Save Areas, Reforestation Areas, Afforestation Areas or Selective Clearing Areas) located on their lot or parcel of land and the associated fines for unauthorized disturbances in these areas. Upon the sale of the property the owner/ developer or owners' representative shall notify the purchaser of the property of any Woodland Conservation Areas.
- 4. All appropriate bonds will be posted with the Building Official prior to the issuance of any permits. These bonds will be retained as surety by the Building Official until all required activities have been satisfied. Three copies of the bonds are submitted with the grading permit ap-
- 5. The location of all Tree Protection Devices (TPD's) shown on this Plan, shall be flagged or staked in the field prior to the pre-construction meeting with the DER inspectors. Upon approval of the flagged or staked TPD locations by the inspector, installation of the TPD's may begin. TPD installation shall be completed prior to installation of initial sediment controls. No cutting or clearing of trees may begin before final approval of the TPD installation.
- 6. Woodland Conservation Tree Save Areas and/or Reforestation shall be posted as shown at the same time as the Tree Protective Device installation and/or start of reforestation activities. These signs shall remain in place after completion of work.

PRE-CONSTRUCTION ACTIVITIES

- 1. Prior to any disturbance of the site, the tree save lines shall be field located by surveying techniques and the appropriate tree protective device (see detail) shall be erected along these designated lines. Only after the tree protective devices have been installed shall any tree cutting or other clearing, grubbing or grading operations begin. All protection devices shall remain in place until all construction has ceased in the immediate vicinity. Devices shall be maintained throughout construction. Attachment of signs, or any other objects, to trees is prohibited. No equipment, machinery, vehicles, materials or excessive pedestrian traffic shall be allowed within protected areas.
- 2. After the boundaries of the retention area have been staked and flagged and before any disturbance has taken place on site, a pre-construction meeting at the construction site shall take place. The developer, contractor or project manager, and appropriate local inspectors shall attend.

Field check the re-afforestation area according to the following schedule:

Site Preparation and Tree Planting <u>Survival check</u> once annually (September-November, see Note 1) <u>Matering if needed</u> (2 x month) Control of undesirable vegetation as needed (1 x in June & 1 x in September min.)

Year 2-3: Reinforcement planting if needed (see Note 2) Survival check once annually (September-November) Control of undesirable vegetation If needed (1 x in May & $1 \times in$ August min).

Year 4-5: Reinforcement planting if needed (See Note 2) <u>Survival check</u> once annually (September-November)

1) Survival Check: Check planted stock against plant list (or as-built) by walking the site and taking inventory. Plants must show vitality. Submit field data forms (Condition Check Sheets) to owner after each inspection. Remove all dead plants.

- 2) Reinforcement Planting: Replace dead or missing plants in sufficient quantity to bring the total number of live plants to at least 75% of the number originally planted. If a particular species suffers unusually high mortality, replace with an alternate plant
- 3) Miscellaneous: Fertilization or watering during years I through 3 will be done on an as needed basis. Special return operations or recommendations will be conducted on an as needed basis. Remove perimeter fencing and signage after year 5 based on the date planted.

PLANTING SPECIFICATIONS FOR RE/AFFORESTATION AREAS

- Quantity: (see Plant Schedule) 2. Type: (see Plant Schedule)
- Plant Quality Standards. The plants selected shall be healthy and sturdy representatives of their species. Seedlings shall have a minimum top growth of 18". The diameter of the root collar (the part of the root just below ground level) shall be at least 3/8". The roots shall be well developed and at least 8" long. No more than twenty-five percent (25%) of the root system (both primary and auxilliary/fibrous) shall show evidence of being cut (pruned) or striped from the plant during the digging process. antial auxiliary/fibrous roots shall be present

Plants that do not have an abundance of well developed terminal buds on the leaders and branches shall be rejected.

Plants shall be shipped by the nursery immediately after lifting from the field or removal from the greenhouse, and planted immediately upon receipt by the landscape contractor.

If the plants cannot be planted immediately after delivery to the reforestation site, they shall be stored in the shade with their root masses protected from direct exposure to sun and wind by the use of straw, peat moss, compost, or other sultable material and shall be maintained through periodic watering,

- 4. Plant Handling: The quantity of seedlings taken to the field shall not exceed the quantity that can be planted in a day. Seedlings, once removed from the nursery or temporary storage area shall be planted immediately.
- . Timing of Planting: The best time to plant seedlings is while they are dormant, prior to spring budding. The most suitable months for planting are March and April, when the soil is moist. November and early December are also acceptable planting times for this region as cool and cloudy weather is considered ideal. Planting shall occur within one growing season of the issuance of grading/building permits and/or reaching the final grades and stabilization of planting
- Seedling Planting: Tree seedlings can be hand planted using a dibble bar or sharp-shooter shovel. It is important that the seedling be placed in the hole so that the roots can spread out naturally, they should not be twisted, balled up, or bent. Moist soil should then be packed firmly around the roots. Seedlings should be planted at a depth where their roots collars lie just below the ground surface. Air pockets should not be left after closing the hole which would allow the roots to dry out. See planting details for further explanation. If the contractor wishes to plant by another method, the preparer of this tree conservation plan must be contacted and give his approval before planting may begin.
- 7. Spacing: See Plant Schedule and/or Planting Plan for spacing requirements. Also refer to the Planting Layout detail for a description of the general planting
- 8. Soil: Upon the completion of all grading operations, a soil test shall be conducted to determine what soil preparation and soil amendments, if any, are necessary to create good tree growing conditions. Soil samples shall be taken at a rate that provides one soil sample for each area that appears to have a different soil ype (if the entire area appears uniform, then only one sample is necessary), and submitted for testing to a private company.

The company of choice shall make recommendations for improving the existing soil.

The soil will be tested and recommended for corrections of soil texture, pH,
magnesium, phosphorous, potassium, calcium and organic matter.

4. Soll improvement Measures: The soil shall then be improved according to the

recommendations made by the testing company.

- 10. Fencing \$ Signage: Final protective fencing shall be placed on the visible and/or development side of planting areas. The protective fence shall be installed upon completion of planting operations. Signs shall be posted per the signage detail
- II. Planting Method: Consult the Planting Detail(s) shown on this plan.
- 12. Mulching: Apply 2° thick layer of woodchip or shredded hardwood mulch (as noted) to each planting site (see detail shown on this plan).
- i3. Groundcover Establishment: The remaining disturbed area between seedling planting sites shall be seeded and stabilized with white clover seed at the rate of 5ibs/acre.
- 14. Mowing: No mowing shall be allowed in any planting area.
- 15. Survival Check for Bond Release: The seedling planting is to be checked at the end of each year for two years to assure that no less than 75% of the
- 16. Source of Seedlings: Md. Forest, Park and Wildlife Service in Bowle, Md.; Phone (301) 464-3065. Ruppert Envirormental, Ashton, Maryland; Phone: (301)774-0400.

STOCK SPECIFICATION: 1000 SEEDLINGS PER ACRE TOTAL RE/AFFORESTATION PROVIDED: 1.24 ACRES

Reforestation Area	Acreage	Seedling Selection					
		Red Maple	Sycamore	So. Red Oak	Black Gum	Millow Oak	Total No. of Seedlings
	0.40	80	80	80	80	80	400
2	0.84	168	168	168	168	168	840
TOTAL	1.24	248	248	248	248	248	1240

1. All tree/shrub species planted within the re/afforestation areas, should be randomly distributed throughout the proposed relafforestation area, so as to promote a natural woodland structure. (See Planting Layout detail) 2. In the event of species unavailability, a substitution may be made. Any substitution made requires written notification to MNCPPC, Environmental Planning Section.

INVASIVE SPECIES MANGEMENT PLAN

- 1. The invasive plant species in the table below were identified on the site and are considered likely to persist as the woodland conservation areas develop. Therefore, targeted eradication of these areas is necessary within 25-feet of the limits of disturbance.
- 2. The invasive plant species in the table below, where found within 25-feet of the limits of disturbance, in the on-site reforestation and preservation woodland conservation areas, are recommended for removal in order to avoid further establishment and invasion into these areas.
- 3. Invasive plant removal shall be completed according to the following schedule following plan approval:
- Year I Spring and Fall Year 2 - Spring Year 3 - Sprina

and conform to the recommendations of the invasive plant removal contained

- 4. The removal of noxious, invasive, and non-invasive plant species shall be done with the use of hand-held equipment only, such as pruners or a chainsaw. These plants may be cut near the ground and the material less than two inches diameter may be removed from the area and disposed of appropriately. All material from these noxious, invasive, and non-native plants greater than two inches diameter shall be cut to allow contact with the ground, thus encouraging
- 5. The use of broadcast spraying of herbicides is not permitted. However, the use of herbicides to discourage re-sprouting of invasive, noxious, or non-native plants is permitted if done as an application of the chemical directly to the stump immediately following cutting if the plant tops. The use of any herbicide shall be done in accordance with the label instructions and be applied be a certified pesticide applicator.
- 6. Additional control methods as provided below can be used seperately or in combination with one another. Chemical treatments include pre-emergent, foliar and systemic herbicides, and should be applied by a certified pesticide applicator. Care should be taken to apply chemical treatments in accordance with the specific chemical instructions and to avoid non-target species. Glyphosate and triclopyr are typical systemic herbicides that can also be used for foliar application, and surfian is a typical pre-emergent herbicide.

Identified Invasive Species and Control Methods						
Common Name	Scientific Name	Control Method				
Callery Pear	Pyrus calleryana	Manually remove young plants when soil is moist; Dig up small trees, removing all roots; Cut and chemically treat large treeswith systemic herbicide or grind up stump to prevent reprouting; Girdling of tree trunks 6" above ground is effective during growing season.				
Japanese Honeysuckle	Lonicera Japonica	Manually remove small infestations; Mowing can minimize infestation but may increase stem density; Apply a systemic herbicide with repeat applications as needed.				

PLAN SYMBOL = **M** (PRESERVATION)

PLAN SYMBOL = 🖠

PLAN SYMBOL = 🔻

(REFORESTATION)

(SPECIMEN TREE)

FOREST

RETENTION

AREA

MACHINERY, DUMPING OR STORAGE OF ANY MATERIALS IS

PROHIBITED

VIOLATORS ARE SUBJECT TO FINES AS IMPOSED BY THE MARYLAND FOREST CONSERVATION ACT OF

<u>Notes:</u> 1. Bottom of signs to be no lower than top of tree protection fence but higher than 6

Attachment or signs to trees is prohibited.
 Signs to be posted on 4x4' pressure treated wood posts driven a minimum of 1.5' into ground or 2' steel "U" channel (minimum 6' length) driven into ground.
 Signs to be attached to posts with 2 galvanized bolts, each with 2 washers and a galvanized nut.

Signs to be placed approximately 50' feet apart. Conditions on site affecting visibility may warrant placing signs closer or farther apart.
 Attachment of signs to trees is prohibited.

-- 4'x4' Pressure Treated F

2" Steel "U" Channel (min. 6' length)

_____ Min 11"_____

REFORESTATION

PROJECT

Trees for Your Future

— Min II" —

SPECIMEN

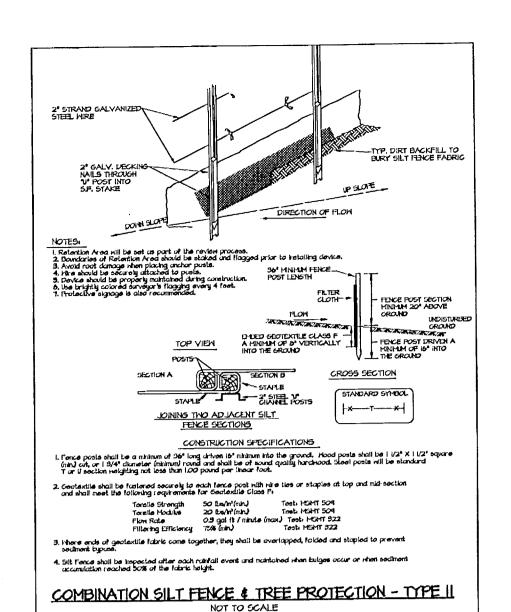
TREE

DO NOT REMOVE

MACHINERY, DUMPING OR STORAGE OF ANY MATERIALS IS

PROHIBITED

from Swearington, J.K. Reshetloff, B. Slattery, and S. Zwicker. 2002 Plant Invaders of Mid-Atlantic Natural Areas. National Park Service and U.S. Fish and Wildlife Service, Wash., D.C.



Owner: Marlo Plaza IV Home Furnishings Center, LLC Zone: E-I-A Address: 725 Rockville Pike Gross Tract: 51.45 Acres Rockville, MD 20852 Floodplain: <u>0.00 Acres</u> Phone: 301-838-0860 Prev.Dedicated Land: 0.00 Acres Tax Map: <u>11</u> Net Tract: 51.45 Acres TCPI Number: TCP1/59/95 Subdivision/Block/Lot: Collington Center Lots 23, 24, 25, Block C Woodland Conservation Calculations: Net Tract Floodplain Offsite (acres) (acres) (acres) 26.58 <u>0.00</u> Acreage of Existing Woodland Moodland Conservation Required for Lot(s) per prior TCPII (18.68%) 9.61 <u>0.00</u> Area of Woodland Cleared per prior TCPII 0.00 17.40 Area of Woodland Cleared per current TCPII Area of Woodland above WCT not cleared by prior TCPII 0.00 0.00 0.00 Additional Woodland cleared by current TCP11 .43 Does the TCPI show 2:1 replacement 0.00 1/4:1 replacement req. 0.00 Clearing above MCT 0.43 2:1 replacement req. Clearing below MCT Woodland Conservation Required for Lot 23, 24 and 25-Block C: 9.61 Total Woodland Conservation Required: (acres) Woodland Conservation Provided: 9.22 **Woodland Preservation** 1.24 Woodland Reforestation/Replacement Afforestation 0.00 (\$0.30)(43560)=\$0.00 Area approved for fee-in-lieu Credits Received for Off-site Mitigation on another property 0.00 0.00 Off-site Mitigation Provided Total Woodland Conservation Provided

Area of net tract woodland not cleared

Plan Certifled by: Name: Mike Petrakis

Moodland retained not part of requirements: 0.00 acres

Phone: <u>301-430-2000</u>

License: Qualified Professiona

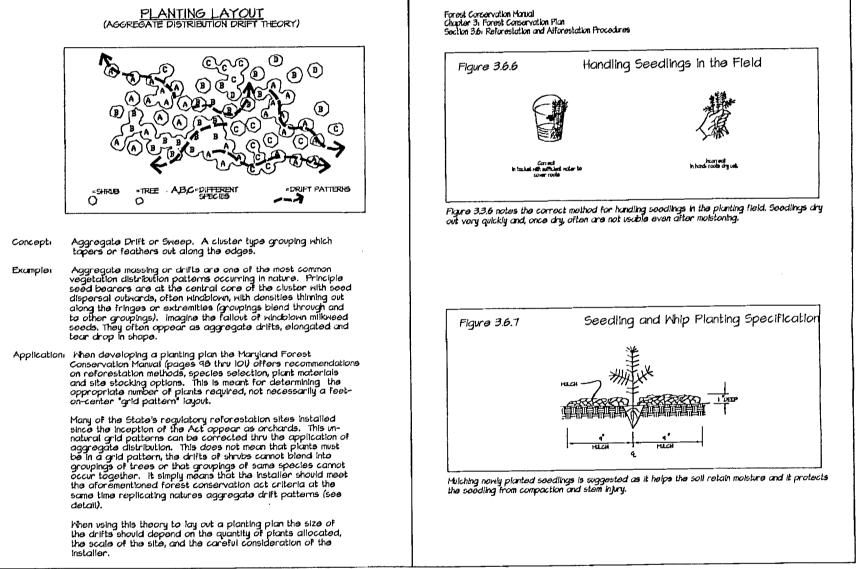
Address: 11721 Woodmore Road, Suite 200

Mitchellville, MD 20721

Single Lot TCPII with Previously Approved TCPII

<u>Woodland Conservation Worksheet</u>

Prince George's County



SURVEYOR'S FLAGGING -

____TP-___TP-___

PLAN SYMBOL

Forest preservation, specimen tree and re/af-forestation protection device.

Protected areas will be set as part of the review process.
 Boundaries of protected areas should be staked and flagged prior to installing

device.

4. Avoid root damage when placing anchor posts.

5. Nire should be securely attached to posts.

6. Device should be properly maintained during construction.

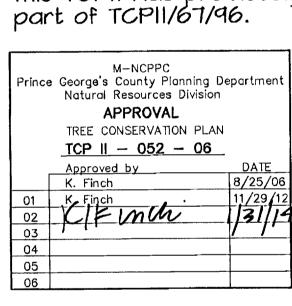
7. Use brightly colored surveyor's flaggling every 4'.

8. Protective signage is also recommended.

9. Contractor may use blaze orange tree protection fence or equal according to MD state Forest Conservation Technical Manual Figure D-5.

TREE PROTECTION FENCING - TYPE I





This TCPII was previously

M.N.C.P.P.C. APPROVALS PROJECT NAME: COLLINGTON CENTER PROJECT NUMBER: SDP-0511 For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet The Revisions Listed Below Apply to this Sheet. 09/26/06 06/22/06 1/16/09 11/30/12 E.P.S. 11/30/12 11/30/12 E.P.S.

TREE CONSERVATION PLAN TYPE-II COLLINGTON CENTER LOTS | THROUGH 12 & PARCEL A & B BLOCK F

BEING A RE-SUBDIVISION OF LOTS 23, 24 AND 25 - BLOCK C

QUEEN ANNE DISTRICT No. 7 PRINCE GEORGE'S COUNTY, MARYLAND

OWNER / APPLICANT COLLINGTON CENTER DE, LLC. c/o Panattoni Maryland, LLC 729 East Pratt Street, Suite 401 Baltimore, MD 21202 ATTN: Robert Murray PH: 410-685-0000 FAX: 410-685-5880

2/17/13 | REV. TO AMEND WORKSHEET AND COMBINE RA#2 & RA#3 1/24/13 | REVISED TO CONFORM WITH SDP-5011/03 DESCRIPTION REVISIONS

Root Pruning

TREE PROTECTION PENCE

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TCP SHEET 2 OF 2

1. Retention Areas to be established as part of the forest conservation plan review process 2. Boundaries of Retention Areas should be staked, flagged and/or fenced prior to trenching.
3. Exact location of trench should be identified.
4. Trench should be immediately backfilled with soil removed or other high organic soil.

i. Roots should be cleanly cut using vibratory limite or other acceptable equipment

Sources Horgand Stoke Forest Cores wolten Technical Humal, Stall Edition - 1977

PLAT BOOK REP 201 PLAT 12 WSSC 200' SHEET SERIES 202 SE 14 ADC MAP 5653 GRIDS D&E-/23/12 REVISED TO CONFORM WITH SDP-5011/01 MITCHELLVILLE, MARYLAND 20721 Jan. 24, 2014 2/05/10 REVISED FOR PRELIMINARY PLAN 4-09016 BEN DYER ASSOCIATES, INC Engineers / Surveyors / Planners 1/20/09 REV. FOR NEW SITE LAYOUT 8/9/06 | REV PER MNCPPC EPS COMMENTS DATED 8-8-06 | MR | COPYRIGHT @ 2006 BEN DYER ASSOCIATES, I 4/17/06 REV PER MNCPPC EPS COMMENTS DATED 4-6-06 MR DRAWN BY DESIGNED BY CHECKED BY RECORD NO. N/A DESCRIPTION Mike Petrakis DATE Ouglified Profession 54.012-MARCH 2006 REVISIONS COMAR 08.19.06.01 LD7-PROJ\94137MF-LD7\sheets\TCPH-Pre.dwg, 1/24/2014 8:09:36 AM, nicpag